Stantec

Yukon University

Polaris Project

ARCHITECT:
Stantec Architecture Ltd.

SHEET NUMBER	SHEET NAME
A001	GENERAL NOTES & LEGENDS
A002	BUILDING CODE MATRIX & LIFE SAFETY PLAN
A010	TYPICAL MOUNTING HEIGHTS LEGEND
A100	SITE PLAN
A101	FLOOR PLAN - OVERALL
A102	ROOF PLAN - OVERALL
A110	FINISHES PLAN - OVERALL
A120	FURNITURE & EQUIPMENT PLAN - OVERALL
A150	REFLECTED CEILING PLAN - OVERALL
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A310	WALL SECTIONS
A400	ENLARGED FLOOR PLANS - ZONE 1
A401	ENLARGED FLOOR PLANS - ZONE 2
A402	ENLARGED FLOOR PLANS - ZONE 3
A403	ENLARGED FLOOR PLANS - WASHROOMS AND UPPER ROOMS
A404	ENLARGED FLOOR PLANS AT EXISTING A-WING
A410	ENLARGED RCP - ZONE 1
A411	ENLARGED RCP - ZONE 2
A412	ENLARGED RCP - ZONE 3
A413	ENLARGED RCP - PANELS/LIGHTING
A414	ENLARGED RCP - PANELS/LIGHTING
A420	ENLARGED FINISHES PLAN - ZONE 1
A421	ENLARGED FINISHES PLAN - ZONE 2
A422	ENLARGED FINISHES PLAN - ZONE 3
A430	ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 1
A431	ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 2
A432	ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 3
A450	STAIR & RAMP - PLAN & SECTIONS
A500	PLAN DETAILS
A502	PLAN DETAILS
A510	ENVELOPE SECTION DETAILS
A511	ENVELOPE SECTION DETAILS
A512	SECTION DETAILS
A520	INTERIOR ELEVATIONS
A521	INTERIOR ELEVATIONS
A522	INTERIOR ELEVATIONS
A523	INTERIOR ELEVATIONS
A524	INTERIOR ELEVATIONS
A525	INTERIOR ELEVATIONS
A526	INTERIOR ELEVATIONS
A527	INTERIOR ELEVATIONS
A550	DETAILS - MILLWORK/CASEWORK LEGEND - KIT OF PARTS
A551	INTERIOR DETAILS
A600	DOOR SCHEDULES
A602	WINDOW & DOOR DETAILS
A603	WINDOW ELEVATIONS

STRUCTURAL ENGINEER:
Stantec Consulting Ltd.

SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	TYPICAL DETAILS
S004	TYPICAL DETAILS
S005	TYPICAL DETAILS
S010	LOADING PLANS
S011	LOADING PLANS
S101	FOUNDATION AND MAIN FLOOR PLAN
S102	CONCRETE CURB LAYOUT PLAN
S103	LOW ROOF FRAMING PLAN
S104	HIGH ROOF FRAMING PLAN
S201	FRAMING ELEVATIONS
S202	SHEAR WALL ELEVATIONS
S203	SHEAR WALL ELEVATIONS
S301	SECTIONS AND DETAILS
S302	SECTIONS AND DETAILS
S303	SECTIONS AND DETAILS
S304	SECTIONS AND DETAILS
S400	ISOMETRICS

MECHANICAL ENGINEER:
Stantec Consulting Ltd.

SHEET NUMBER	SHEET NAME
M000	LEGENDS & GENERAL NOTES
M001	SITE PLAN
M100	PLUMBING - BELOW SLAB - WEST (SOUTH)
M101	PLUMBING - BELOW SLAB - EAST & WEST (NORTH)
M102	PLUMBING - ABOVE SLAB - WEST (SOUTH)
M103	PLUMBING - ABOVE SLAB - EAST & WEST (NORTH)
M200	FIRE PROTECTION - WEST (SOUTH)
M201	FIRE PROTECTION - EAST & WEST (NORTH)
M202	FIRE PROTECTION - ZONES
M300	HEATING , COOLING AND CONTROL DEVICES - WEST (SOUTH)
M301	HEATING, COOLING AND CONTROL DEVICES - EAST & WEST (NORTH)
M302	HEATING - ECONOMIZER
M303	HEATING - ECONOMIZER PIPING PATH PHOTOS
M400	VENTILATION - WEST (SOUTH)
M401	VENTILATION - EAST & WEST (NORTH)
M500	MECHANICAL ROOM PLANS - 0 TO 3750 AFF
M501	MECHANICAL ROOM PLANS - 3750 to 8200 AFF
M502	MECHANICAL ROOM SECTIONS
M503	BUILDING SECTIONS - WEST (SOUTH)
M504	BUILDING SECTIONS - EAST & WEST (NORTH)
M600	DOMESTIC WATER & FIRE PROTECTION SCHEMATICS
M601	HEATING WATER & CHILLED WATER SCHEMATICS
M602	VENTILATION SCHEMATICS
M700	SCHEDULES - SHEET 1
M701	SCHEDULES - SHEET 2
M801	DETAILS - HVAC

ELECTRICAL ENGINEER:
Stantec Consulting Ltd.

SHEET NUMBER	SHEET NAME
E010	ELECTRICAL SITE PLAN
E100	FIRE ALARM AND LIGHTING CONTROL ZONE KEY
E201	LEVEL 1 - POWER FLOOR PLAN - OVERALL
E202	ROOF - POWER FLOOR PLAN - OVERALL
E211	LEVEL 1 - MECH-POWER FLOOR PLAN - OVERALL
E212	ROOF - MECH-POWER FLOOR PLAN - OVERALL
E301	LEVEL 1 - LIGHTING RCP - OVERALL
E401	LEVEL 1 - FIRE ALARM FLOOR PLAN - OVERALL
E411	LEVEL 1 - ICT AND SECURITY FLOOR PLAN - OVERALL
E421	ROOF - LIGHTNING PROTECTION SYSTEM FLOOR PLAN - OVERALL
E501	ENLARGED PLANS
E502	INTERIOR AND EXTERIOR ELEVATIONS
E601	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEMATICS
E701	MECHANICAL EQUIPMENT SCHEDULE
E702	LIGHT FIXTURE SCHEDULE
E710	PANEL SCHEDULES
E711	PANEL SCHEDULES
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS
E803	ELECTRICAL DETAILS
E804	COMMUNICATION BACKBONE PATHWAYS, CABLING, GROUNDING & SYSTEM RISERS
E805	DOOR HARDWARE TYPICAL CONFIGURATIONS AND ELEVATIONS
E806	LIGHTNING PROTECTION DETAILS

CIVIL ENGINEER:
Stantec Consulting Ltd.

SHEET NUMBER	SHEET NAME
C-001	CIVIL NOTES, LEGENDS AND ABBREVEATION
C-101	CIVIL SITE PLAN, EXISTING CONDITIONS AND DEMOLITION
C-102	UTILITIES PLAN AND SERVICE PROFILES
C-103	GRADING, SURFACE TREATMENT, AND PAVEMENT MARKINGS
C-104	GRAVEL PARKING LOT GRADING
C-201	GRADING PROFILES AND SECTIONS
C-202	UTILITY PROFILES
C-501	DETAILS
C-502	DETAILS

LANDSCAPE:
Stantec Consulting Ltd.

SHEET NUMBER	SHEET NAME
L001	NOTES AND MATERIAL SCHEDULES TREE PROTECTION AND CONTEXT PLAN
L100	LAYOUT PLAN
L101	HARDSCAPE PLAN
L102	SITE FURNISHINGS PLAN
L103	CONCRETE SAW CUT PLAN
L200	PLANTING PLAN
L201	PLANTING PLAN ENLARGEMENTS
L202	PLANTING PLAN ENLARGEMENTS
L203	PLANTING PLAN ENLARGEMENTS
L300	GRADING PLAN
L301	GRADING PLAN ENLARGEMENTS
L302	GRADING PLAN ENLARGEMENTS
L400	DETAILS
L401	DETAILS
L402	DETAILS

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E D C B A

ABBREVIATION LEGEND

A/V	AIR/VAPOUR
ADH	ADHESIVE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
BD	BOARD
BF	BARRIER FREE
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
C/W	COMPLETE WITH
CB	CATCH BASIN
CH	COAT HOOK
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CHANGE TABLE
DEG (°)	DEGREE
DF	DRINKING FOUNTAIN
DIA (ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DO	DOOR OPERATOR
DP	DEEP
DRY	DRYER (CLOTHES)
DS	DOWNSPOUT
DW	DISHWASHER
DWG(S)	DRAWINGS
E/F	EACH FACE
E/S	EACH SIDE
E/W	EACH WAY
ELEC	ELECTRICAL
ELEV (EL)	ELEVATION
EQ	EQUAL
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FL (FLR)	FLOOR
FOC	FACE OF CURB
FP	FIREPLACE
FRG	FIRE RESISTIVE GLAZING
FRP	FIBER REINFORCED PLASTIC
FT	FLOORING TRANSITION STRIP
FTG	FOOTING
GA	GAUGE
GB	GRAB BAR
GF	GLASS FILM
GL	GLASS
GLULAM	GLUE-LAMINATED
GR	GRADE
GWB	GYPSUM WALL BOARD
HCW	HOLLOW CORE WOOD
HD	HAND DRYER
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HWT	HOT WATER TANK
IHM	INSULATED HOLLOW METAL
INSUL.	INSULATION
INT	INTERIOR
JT	JOINT
LAV	LAVATORY
LG	LONG
m	METER
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL

ABBREVIATION LEGEND

MEZZ	MEZZANINE
MH	MANHOLE
MI	MIRROR
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETERS
MR	MOP RACK
MS	MOP SINK
MW	MICROWAVE
NIC	NOT IN CONTRACT
NO. (#)	NUMBER
NTS	NOT TO SCALE
O/C	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
OWSJ	OPEN WEB STEEL JOIST
PERIM	PERIMETER
POLY	POLYETHYLENE
PP	POWER POLE
PROJ	PROJECTION
PSF	PRESSED STEEL FRAME
PT	PAPER TOWEL DISPENSER
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
R	RANGE
R/W	REINFORCED WITH
RAD (R)	RADIUS
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
SC	SHOWER CURTAIN
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER
SECT	SECTION
SIM	SIMILAR
SN	SANITARY NAPKIN DISPOSAL
SOG	SLAB ON GRADE
SP	SPANDREL PANEL
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
ST	STAINED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STHG	SHEATHING
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&G	TONGUE & GROOVE
T/O	TOP OF
TB	TACK BOARD
TBD	TO BE DETERMINED
TOC	TOP OF CURB
TOS	TOP OF SLAB
TP	TOILET/WASHROOM PARTITIONS
TS	TEMPERED SAFETY
TTH	TOILET TISSUE HOLDER
TV	TELEVISION
TYP	TYPICAL
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
VB	VAPOUR BARRIER
VD	VENDING MACHINE
VERT	VERTICAL
VEST	VESTIBULE
W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WS	WOOD SOFFIT
WWM	WELDED WIRE MESH

ARCHITECTURAL SYMBOLS

GRID LINES — GL — GRID NUMBER OR LETTER DESIGNATION; GL

EXISTING GRID — 0

ROOM TAG — ROOM NAME 101 — ROOM NAME; ROOM NUMBER; ROOM AREA

AREA TAG — AREA NAME 150 m2

DOOR TAG — 100A — DOOR OPENING NUMBER, GENERALLY CORRESPONDS TO ROOM NUMBER WHERE DOOR OCCURS

CEILING TAG — ACT1 3000 — CEILING TYPE; CEILING HEIGHT

PARTITION TAG — W1

FLOOR TAG — F1

ROOF TAG — R1

WINDOW TAG — 1t

GLAZING TYPE — IG1

KEYNOTE TAG — A

FLOOR FINISH TAG — FT1

WALL FINISH — PT-1

TRANSITION STRIP — TS1

CASEWORK TAG — 1i

WASHROOM ACCESSORIES — A

FURNITURE TAG — 1i

DETAIL CALLOUTS — 1 / A802 SIM — DETAIL NUMBER; SHEET ON WHICH DETAIL IS SHOWN

EXTERIOR ELEVATIONS — A1 / A101 — ELEVATION NUMBER; SHEET ON WHICH ELEVATION IS SHOWN

INTERIOR ELEVATIONS — 1 Ref, A101 — ELEVATION NUMBER; SHEET ON WHICH ELEVATION IS SHOWN

MILLWORK ELEVATIONS — 1 Ref, A101 — ELEVATION NUMBER; SHEET ON WHICH ELEVATION IS SHOWN

BUILDING SECTIONS — 1 / A301 SIM — SECTION NUMBER; SHEET ON WHICH SECTION IS SHOWN

WALL SECTIONS — 1 / A401 SIM — SECTION NUMBER; SHEET ON WHICH SECTION IS SHOWN

FLOOR ELEVATION — Name — FLOOR OR ROOF LEVEL NAME; Elevation — VERTICAL ELEVATION

NORTH ARROW — N

DRAWING REVISION — 1

MATCH LINE

BREAK LINE

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2020.
2. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
3. ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, INTERIOR DESIGN, CIVIL AND LANDSCAPE DRAWINGS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES.
4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH GOOD BUILDING PRACTICES. CONTRACTOR TO CAREFULLY INSPECT THE SITE OF WORK AND BE FULLY INFORMED OF CONDITIONS AND LIMITATIONS.
5. CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DESIGN TEAM PRIOR TO PROCEEDING.
6. CONTRACTOR TO CONFIRM ALL ELEVATIONS (INCLUDING SLAB, LANDSCAPING, CONC. WALLS) ON SITE. REPORT ANY VARIANCES TO CONSULTANT.
7. CONTRACTOR TO INSTALL ALL MANUFACTURED ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS COMPLETE WITH ALL FASTENERS/CONNECTIONS AS REQUIRED FOR COMPLETE INSTALLATION.
8. CONTRACTOR IS RESPONSIBLE TO CONFIRM AND PROVIDE STORM, SANITARY, WATER, ELECTRICITY, AND GAS REQUIREMENTS AND INSTALL AS PER APPLICABLE CODES AND LOCAL INSPECTORS.
9. PROVIDE MIN. 2% SLOPE FOR ALL EXTERIOR CONC. SLABS U.N.O. PROVIDE MINIMUM 2% SLOPE AWAY FROM THE BUILDING FOR ALL EXTERIOR GRADING U.N.O. PROVIDE MINIMUM 2% SLOPE AWAY FROM THE BUILDING FOR ALL EXTERIOR GRADING U.N.O. OR DICTATED BY EXIST. SITE CONDITIONS. CONFIRM WITH CONSULTANT.
10. WALLS NOT LOCATED BY DIMENSIONS ARE ASSUMED TO BE CENTERED ON GRID LINES. ALL DIMENSIONS ARE FROM FACE OF METAL STUD OR FACE OF MASONRY U.N.O.
11. ALL MASONRY WALLS TO EXTEND TO U/S OF ROOF DECK UNLESS OTHERWISE NOTED.
12. DOOR AND WINDOW SIZES ARE NOMINAL. CONTRACTOR TO CONSULT SUPPLIER FOR EXACT SIZES AND ROUGH OPENINGS.
13. INSTALL ALL DOORS AND FRAMES WITH A CLEAR DIMENSION OF 100mm IN METALS STUD WALLS AND 200mm IN CONC. BLOCK WALLS BETWEEN THE FRAME AND THE NEAREST ADJACENT WALL UNLESS NOTED OTHERWISE.
14. TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION BEHIND RECESSED WALL-MOUNTED ITEMS, TYPE 'X' GYPSUM BOARD IN STUD CAVITIES IN METAL STUD PARTITION AND CORE FILL CONCRETE BLOCK BEHIND ALL ITEMS.
15. USE TYPE 'X' GWB ON ALL FIRE-RATED GWB PARTITIONS.
16. ALL RATED WALLS SHALL BE CONTINUOUS & FRAMED TO U/S OF FLOOR OR ROOF ASSEMBLIES ABOVE UNO.
17. PROVIDE DEFLECTION TRACK @ ALL INTERIOR PARTITIONS FRAMED TO U/S STRUCTURE.
18. INSTALL GYPSUM BOARD OF APPROPRIATE THICKNESS TO MATCH ADJACENT WALL WHERE DIFFERENT GYPSUM THICKNESSES ABUT.
19. WHERE MECHANICAL DUCTS AND ELECTRICAL CONDUIT PENETRATE FIRE SEPARATIONS OR WALLS WHICH ARE CONSTRUCTED TO U/S OF STRUCTURE, PROVIDE FIRESTOPPING AND SMOKE SEALS AT PENETRATIONS TO MAINTAIN FRR NOTED ON PARTITION TYPES SCHEDULE. PROVIDE SOUND SEALS TO MEET STC RATINGS NOTED ON PARTITION TYPES SCHEDULE.
20. GYPSUM BOARD IS NOT REQUIRED ON INSIDE FACE OF VOID SPACES UNLESS PART OF A RATED PARTITION ASSEMBLY OR STC RATING.
21. WHEN INSTALLING PLUMBING, INSTALL GASKETS AT ALL SUPPORT CONNECTIONS. PIPES MUST NOT COME INTO DIRECT CONTACT WITH METAL STUDS, METAL SUSPENSION SYSTEMS, OR CONCRETE FLOORS.
22. FURR IN ALL EXPOSED MECH. AND ELECT. DUCTS AND PIPING WITHIN PUBLIC SPACES.
23. CONTRACTOR ASSUMES COMPLETE RESPONSIBILITY TO ENSURE ALL FIXTURES & EQUIP. SUPPLIED UNDER THIS CONTRACT ARE C.S.A. APPROVED.
24. PROVIDE ALL FRAMING / BLOCKING AS REQUIRED TO ENSURE PROPER SECUREMENT OF ALL MATERIALS, EQUIPMENT, ACCESSORIES, ETC. PROVIDE BACKING FOR ITEMS NOTED AS - IN CONTRACT (I.C.), NOT IN CONTRACT (N.I.C.), AND OWNER SUPPLIED CONTRACTOR INSTALLED (O.S.C.I.). PROVIDE BLOCKING IN METAL STUD PARTITIONS BEHIND ALL WALL-MOUNTED ITEMS. ALSO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
25. PROVIDE FLASHING OVER ALL EXTERIOR DOORS AND WINDOWS.
26. MAINTAIN INTEGRITY OF THE VAPOUR / AIR BARRIER MEMBRANE IN THE EXTERIOR WALLS & ROOF STRUCTURE. ALL MEMBRANES ARE TO BE CONTINUOUS & HAVE A MINIMUM OVERLAP OF 200mm AT ALL PARAPETS, FLASHINGS, JOINTS, CHANGES IN DIRECTION, WINDOWS, DOORS, ETC.
27. PROVIDE CONTINUOUS ROD AND SEALANT AT ALL JUNCTIONS OF DISSIMILAR MATERIALS, CONTROL JOINTS AND OTHER LOCATIONS INDICATED.
28. ALL MATERIALS TO BE PRIMED AND PAINTED U.N.O.
29. MAINTAIN SAFE ACCESS TO ALL REQUIRED EXITS AT ALL TIMES.
30. PAINT ALL EXPOSED STRUCTURE AND MECHANICAL DUCTS. DO NOT PAINT ACOUSTIC DECK. REFER TO FINISH SCHEDULE.
31. PROVIDE MIN 17% SLOPE FOR ALL WINDOW SILLS.
32. CONTRACTOR RESPONSIBLE TO COORDINATE ALL INSTANCES OF DETAILS NOTED AS TYPICAL (TYP.). ROTATIONAL ORIENTATION OF DETAILS MAY VARY.
33. ALL APPLIANCES ARE SUPPLIED AND INSTALLED BY OWNER
34. PATCH AND MAKE GOOD ALL EXISTING AND NEW SURFACES DAMAGED DURING THE COURSE OF WORK.
35. PROVIDE TYPE 'X' GYPSUM BOARD IN STUD CAVITIES BEHIND RECESSED WALL MOUNTED ITEMS TO MAINTAIN INTEGRITY OF REQUIRED FIRE SEPARATIONS.
36. PROVIDE ALL FRAMING / BLOCKING AS REQUIRED TO ENSURE PROPER SECUREMENT OF MATERIALS, EQUIPMENT, ACCESSORIES, ETC.
37. ITEMS SHOWN ON THE DRAWINGS, BUT NOT SPECIFIED ARE TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL SUCH ITEMS SHALL BE OF A QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS.

CONSTRUCTION ASSEMBLIES LEGEND

EXTERIOR WALL TYPES

WALL ASSEMBLY EW1: R=35
- METAL CLADDING AS PER SCHEDULE AND ELEVATIONS
- HORIZONTAL 19x89 STRAPPING @ 400 O.C.
- VERTICAL 38x89 STRAPPING @ 600 O.C. FASTENED TO OUTER CHORD OF LARSEN TRUSS
- SELF ADHERED WEATHER BARRIER - VAPOUR PERMEABLE
- 16mm EXTERIOR GRADE PLYWOOD
- 300mm DEEP LARSEN TRUSS @ 600 O.C. INNER CHORD 38x63 13x305x280mm PLYWOOD GUSSETS @1200 O.C. OUTER CHORD 38x63
- 300mm SEMI RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- 140mm STUD WALL; STUDS & SPACING AS PER STRUCTURAL
- 16mm GYPSUM BOARD, PAINTED

WALL ASSEMBLY EW1a: R=35
- 89x184mm CEDAR WOOD FINS AS PER ELEVATIONS, CONNECTION DETAIL 1/A500
- SAME ASSEMBLY AS EW1

WALL ASSEMBLY EW2: R=35
- METAL CLADDING AS PER SCHEDULE AND ELEVATIONS
- HORIZONTAL 19x89 STRAPPING @ 400 O.C.
- VERTICAL 38x89 STRAPPING @ 600 O.C. FASTENED TO OUTER CHORD OF LARSEN TRUSS
- SELF ADHERED WEATHER BARRIER - VAPOUR PERMEABLE
- 16mm EXTERIOR GRADE PLYWOOD
- 300mm DEEP LARSEN TRUSS @ 600 O.C. INNER CHORD 38x63 (DOUBLE AT FIN LOCATIONS) 13x305x280mm PLYWOOD GUSSETS @1200 O.C. OUTER CHORD 38x63
- 300mm SEMI RIGID INSULATION
- SELF-ADHERED AIR/VAPOUR BARRIER MEMBRANE
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- 184mm STUD WALL; STUDS & SPACING AS PER STRUCTURAL
- 16mm GYPSUM BOARD, PAINTED

WALL ASSEMBLY EW2a: R=35
- 89x184mm CEDAR WOOD FINS AS PER ELEVATIONS, CONNECTION DETAIL 1/A500
- SAME ASSEMBLY AS EW2

FOUNDATION WALL ASSEMBLY FW1:
- 50mm CONCRETE FACED RIGID INSULATION TO 610mm BELOW GRADE
- 150mm RIGID INSULATION
- WATER PROOFING
- CONCRETE RETAINING WALL, (PAINTED - INTERIOR FACE)

FOUNDATION WALL ASSEMBLY FW2:
- 50mm CONCRETE FACED RIGID INSULATION TO 610mm BELOW GRADE
- 150mm RIGID INSULATION
- WATER PROOFING
- FACE OF CONCRETE SLAB THICKENING

ROOF TYPES

BASIC ROOF ASSEMBLY R1: R=55
- 2 PLY SBS ROOFING, TORCHED TO
- 76mm STONEWOOL INSULATION WITH A RIGID SURFACE IMPREGNATED WITH A BITUMEN LAYER, ADHERED TO
- 200mm (2-100mm) POLYISOCYANCURATE, ADHERED TO
- SELF ADHERED AIR/VAPOUR BARRIER MEMBRANE
- 19mm EXTERIOR GRADE PLYWOOD SHEATHING
- 38mm T&G WOOD DECKING, CLEAR FINISH
- SLOPED GLULAM STRUCTURE, CLEAR FINISH

BASIC ROOF ASSEMBLY R2: R=55
- 2 PLY SBS ROOFING, TORCHED TO
- 76mm STONEWOOL INSULATION WITH A RIGID SURFACE IMPREGNATED WITH A BITUMEN LAYER, ADHERED TO
- 200mm (2-100mm) POLYISOCYANCURATE, ADHERED TO
- SELF ADHERED AIR/VAPOUR BARRIER MEMBRANE
- 19mm TYPE "X" GLASS MAT FACED GYPSUM BOARD
- 38mm STEEL DECKING
- SLOPED GLULAM STRUCTURE, CLEAR FINISH

MAIN CANOPY ROOF ASSEMBLY R3:
- 2 PLY SBS ROOFING, TORCHED TO
- 16mm TYPE "X" GLASS MAT FACED GYPSUM BOARD
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- 38x184mm JOISTS @ 600mm O.C.
- STRUCTURAL SUPPORT WITH A 2% SLOPE
- SOFFIT ASSEMBLY AS NOTED

SECONDARY CANOPY ROOF ASSEMBLY R4:
- 2 PLY SBS ROOFING, TORCHED TO
- 16mm TYPE "X" GLASS MAT FACED GYPSUM BOARD
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- WOOD WEDGES TO FORM A 1.5% SLOPE
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- 38x184mm JOISTS @ 600mm O.C. AND STRUCTURAL SUPPORT
- SOFFIT AS NOTED

PARAPET TYPES

PARAPET ASSEMBLY PW1 :
- FACADE CONSTRUCTION AS PER ELEVATIONS
- SELF ADHERED WEATHER BARRIER - VAPOUR PERMEABLE
- 16mm EXTERIOR GRADE PLYWOOD
- 300mm DEEP LARSEN TRUSS @ 600 O.C. (SEE EW1 FOR DESCRIPTION)
- 300mm SEMI RIGID INSULATION
- 16mm EXTERIOR GRADE PLYWOOD SHEATHING
- 16mm GLASS MAT REINFORCED GYPSUM BOARD
- TORCH-ON ROOFING MEMBRANE

FLOOR TYPES

BASIC FLOOR ASSEMBLY F1 :
- FLOORING AS PER SCHEDULE
- CONCRETE SLAB ON GRADE AS PER STRUCTURAL
- 20mm UNDER SLAB VAPOUR BARRIER - RADON BARRIER
- 200mm RIGID INSULATION
- GROUND PREPARATION AS PER GEOTECH REPORT

INTERIOR PARTITION TYPES

PARTITION ASSEMBLY P1:
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 15.9mm GYPSUM BOARD

PARTITION ASSEMBLY P1a:
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/120) AT 400mm O.C.
- 15.9mm GYPSUM BOARD

PARTITION ASSEMBLY P1b:
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 15.9mm GYPSUM BOARD

PARTITION ASSEMBLY P2a (45MIN FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P3 (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P3a (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P3b (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P3c (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/120) AT 400mm O.C.
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P4a (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P4b (1HR FRR - ULC W453):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/120) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P5a (STC 47):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P5b (STC 53):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/120) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P5c (STC 47):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P5d (STC 47):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 92mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 90mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P5e (STC 53):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 25mm FURRING
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P6a (STC 53):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P6b (STC 53):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P6c (STC 55):
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm TYPE 'X' GYPSUM BOARD
- 15.9mm TYPE 'X' GYPSUM BOARD

PARTITION ASSEMBLY P7:
- 15.9mm GYPSUM BOARD
- 92mm STEEL STUDS (25ga L/240) AT 400mm O.C.

PARTITION ASSEMBLY P7a:
- 15.9mm GYPSUM BOARD
- 92mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 90mm ACOUSTIC BATT INSULATION

PARTITION ASSEMBLY P7b:
- 15.9mm GYPSUM BOARD
- 15.9mm GYPSUM BOARD
- 92mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 90mm ACOUSTIC BATT INSULATION

PARTITION ASSEMBLY P8:
- 15.9mm GYPSUM BOARD
- 41mm STEEL STUDS (25ga L/240) AT 400mm O.C.

PARTITION ASSEMBLY P8a:
- 15.9mm GYPSUM BOARD
- 15.9mm GYPSUM BOARD
- 41mm STEEL STUDS (25ga L/240) AT 400mm O.C.

PARTITION ASSEMBLY P9:
- SHEAR WALL - REFER TO STRUCTURAL

PARTITION ASSEMBLY P10:
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.

PARTITION ASSEMBLY P10a:
- 15.9mm GYPSUM BOARD
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (20ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION

PARTITION ASSEMBLY P11 (0 MIN FRR):
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 15.9mm GYPSUM BOARD

PARTITION ASSEMBLY P11a (0 MIN FRR):
- 15.9mm GYPSUM BOARD
- 152mm STEEL STUDS (25ga L/240) AT 400mm O.C.
- 150mm ACOUSTIC BATT INSULATION
- 15.9mm GYPSUM BOARD
- 15.9mm GYPSUM BOARD

SHAFT WALL PARTITION ASSEMBLY P12a (1HR FRR - ULC W446)
- 16mm TYPE 'X' GYPSUM BOARD ON
- 102mm C-H METAL STUDS AT 400 O.C.
- 100mm ACOUSTIC BATT INSULATION
- 25mm SHAFTLINER GYPSUM BOARD

PARTITION ASSEMBLY P13:
- 15.9mm GYPSUM BOARD
- 22mm FURRING AT 400mm O.C.

SOFFIT TYPES

CANOPY SOFFIT ASSEMBLY C1 :
- SUSPENDED 38x89mm WOOD FRAMING
- PERFORATED BLACK METAL INSECT SCREEN
- OPEN JOINT 19x89mm CEDAR WOOD SLATS SELECT GRADE AT 108mm O.C. JOINTS STAGGERED AND UNDER 15DEG; CLEAR FINISH

CANOPY SOFFIT ASSEMBLY C2 :
- SUSPENDED 38x44mm WOOD FRAMING
- 19x89mm WOOD STRAPPING AT 400mm O.C.
- PERFORATED BLACK METAL INSECT SCREEN
- OPEN JOINT 19x89mm CEDAR WOOD SLATS SELECT GRADE AT 108mm O.C. JOINTS STAGGERED AND UNDER 15DEG; CLEAR FINISH

CEILING TYPES

ACT-1 - ACOUSTIC CEILING TILE:
- 610mm x 1220mm ACOUSTIC LAY-IN TILE
- T-BAR SUSPENDED SYSTEM

ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE):
- 610mm x 1220mm ACOUSTIC LAY-IN TILE
- T-BAR SUSPENDED SYSTEM

ACT-3 - WOOD SLAT SUSPENSION SYSTEM:
- 300mm WOOD SLAT
- SUSPENDED SYSTEM

EXP - EXPOSED STRUCTURE:
- PAINTED STEEL DECK
- PAINTED STRUCTURE

GWB-1 - GYPSUM BOARD CEILING:
- 16mm GYPSUM BOARD
- SUSPENSION SYSTEM

EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE:
- PAINTED STEEL DECK
- PAINTED STRUCTURE
- INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

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Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
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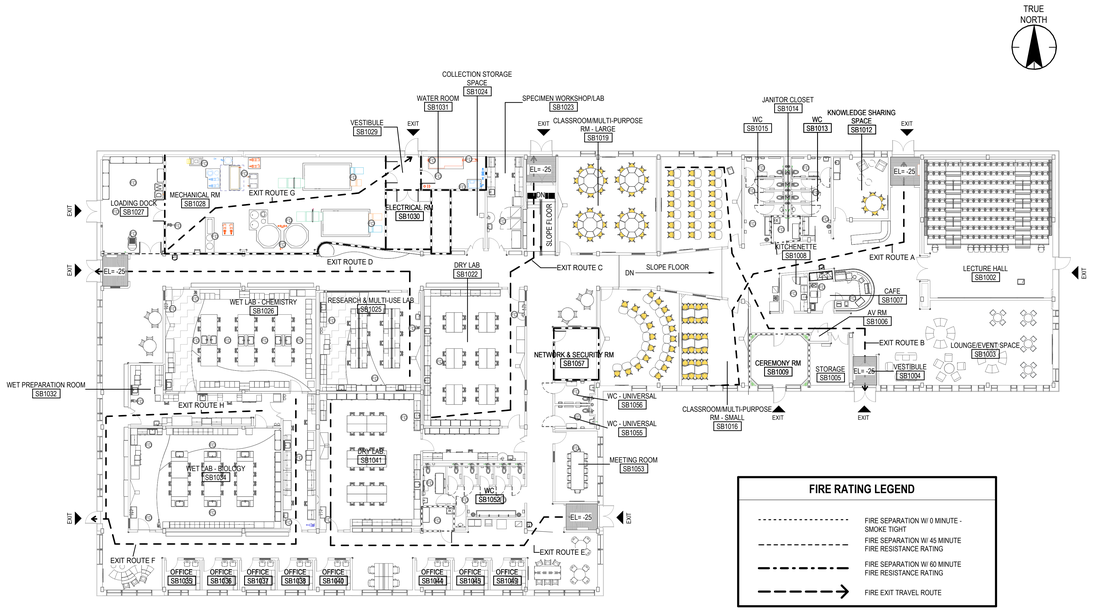
Yukon University
Polaris Project

Title
GENERAL NOTES & LEGENDS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A001**



1 MAIN FLOOR LIFE SAFETY PLAN
A002 1 : 200

FIRE RATING LEGEND

- FIRE SEPARATION W/ 0 MINUTE - SMOKE TIGHT
- FIRE SEPARATION W/ 45 MINUTE FIRE RESISTANCE RATING
- FIRE SEPARATION W/ 60 MINUTE FIRE RESISTANCE RATING
- FIRE EXIT TRAVEL ROUTE

EXIT ROUTE TRAVEL DISTANCE

ROUTE	PATH OF TRAVEL (m)
EXIT ROUTE A	37.2 m
EXIT ROUTE B	35.7 m
EXIT ROUTE C	31.9 m
EXIT ROUTE D	38.7 m
EXIT ROUTE E	38.2 m
EXIT ROUTE F	34.0 m
EXIT ROUTE G	24.9 m
EXIT ROUTE H	25.0 m

SPATIAL SEPARATION - TABLE 3.2.3.1.D

WALL	AREA OF EXTERIOR BUILDING FACE	LIMITING DISTANCE	AREA OF UNPROTECTED OPENINGS	PERMITTED % OF OPENINGS	PROVIDED % OF OPENINGS	CLADDING		REMARKS
						FRR (MINS)	COMB. / NON-COMB. CONST.	
EAST	233 m²	> 9 m	46 m²	100%	20%	0	BOTH	
SOUTH	426 m²	> 9 m	149 m²	100%	35%	0	BOTH	
WEST	47 m²	> 9 m	4.2 m²	100%	9%	0	BOTH	MECHANICAL
WEST	155 m²	> 9 m	46 m²	100%	30%	0	BOTH	OCCUPIED AREAS
NORTH	34 m²	>9 m	0 m²	100%	0%	0	BOTH	SERVICE AREA
NORTH	145 m²	>9 m	0 m²	100%	0%	0	BOTH	MECHANICAL
NORTH	28.5 m²	>9 m	0 m²	100%	0%	0	BOTH	SERVICE AREA
NORTH	247 m²	>9 m	38 m²	100%	15%	0	BOTH	OCCUPIED AREAS

BUILDING CODE SUMMARY CONTINUED

BARRIER-FREE	PATH OF TRAVEL - 1000mm DOOR – 850mm WIDTH CLEAR	3.8.3.2(1) 3.8.3.6(2)
	DOOR THRESHOLD – NO GREATER THAN 13mm HIGH	3.8.3.6(5)
	PROVIDED TO DESIGNATED BARRIER-FREE EXTERIOR PARKING	3.8.2.5(1)
	IF PROVIDED, PASSENGER LOADING ZONE ACCESS AISLE AT LEAST 1500mm WIDE X 6000mm LONG	3.8.3.4(1)
	ACCESSIBLE PARKING STALL – 2.4m WIDE PARKING STALL ADJACENT TO A 1.5m WIDE ACCESS AISLE (IF MORE THAN 50 PARKING SPACES PROVIDED, 1 BARRIER STALL FOR EVERY 100 PARKING SPACES OR PART THEREOF TO BE PROVIDED)	A-3.8.2.5(1)
	EXTERIOR PATH OF TRAVEL- MIN.1600mm WIDE	3.8.3.3.
	VESTIBULE – MIN. 1350mm BETWEEN DOORS (NOT INCLUDING DOOR SWING)	3.8.3.6(12)
	AT LEAST ONE BARRIER FREE STALL REQUIRED FOR EVERY 10 STALLS OR PART THEREOF	3.8.2.8(7)
	WATERCLOSET STALLS - BE NOT LESS THAN 1500mm WIDE BY 1500mm DEEP - HAVE CLEAR LATERAL TRANSFER SPACE ADJACENT TO THE WATER CLOSET THAT IS AT LEAST 1500mm LONG AND AT LEAST 900mm WIDE - 850mm CLEAR OPENING - OUTWARD SWING (UNLESS THERE IS ROOM FOR THE DOOR WITH CLEAR FLOOR SPACE OF AT LEAST 800mm BY 1350mm)	3.8.3.12(1)
	CENTER LINE OF FIXTURE IS 460mm TO 480mm FROM ADJACENT WALL - COAT HOOK AT NOT MORE THAN 1200mm ABOVE FLOOR - 1700mm BY 1700mm CLEAR FLOOR SPACE IN FRONT OF ACCESSIBLE STALL - HORIZONTAL GRAB BAR – MIN. 600mm LENGTH, 750-850mm CENTRE LINE ABOVE FLOOR - L-SHAPED GRAB BAR AT SIDE WALL (MIN 760mm LONG ARMS), 750-850mm CENTRE LINE ABOVE FLOOR, VERTICAL COMPONENT 150mm IN FRONT OF THE WATER CLOSET	3.8.3.12(1)
	- SEAT HEIGHT 430mm TO 460mm ABOVE FLOOR	3.8.3.14
	URINAL – WALL MOUNTED, RIM LOCATED NOT MORE THAN 430mm ABOVE FLOOR 800mm CLEAR APPROACH WIDTH BY 1350mm LONG 600mm MIN. LONG VERTICAL GRAB BAR ON EACH SIDE	3.8.3.15(2)
	UNIVERSAL TOILET ROOM - FIXTURE LOCATION, TRANSFER CLEARANCE, COAT HOOKS, GRAB BARS AS PER WATERCLOSET STALLS ABOVE - INTERNAL TURNING RADIUS IN OPEN SPACE TO BE MIN. 1700mm - ONE LAVATORY WITH RIM HEIGHT NOT MORE THAN 865mm ABOVE FLOOR - HAVE A SHELF NOT MORE THAN 1200mm ABOVE FLOOR IF COUNTER NOT PROVIDED	3.8.3.13(1) 3.8.3.16(1)

BUILDING CODE SUMMARY

ITEM	REMARKS	ARTICLE / REFERENCE
BASIS OF SUMMARY	NATIONAL BUILDING CODE 2020	
STOREYS ABOVE GRADE	1 STOREY	
BUILDING HEIGHT	9.06m	3.2.1.1
BUILDING AREA	MAIN FLOOR: EXISTING: 0m² NEW: 2834m² = 2834m² TOTAL: EXISTING: 0m² NEW: 2834m² = 2834m² (OVERALL)	
NUMBER OF STREETS THE BUILDING IS FACING	2	3.2.2.10
BUILDING CLASSIFICATION	MAJOR OCCUPANCY – ASSEMBLY GROUP "A-2" (MOST RESTRICTIVE)	Table 3.1.2.1
	GROUP A DIVISION 2, UP TO 2 STOREYS, INCREASED AREA, SPRINKLERED (MAJOR OCCUPANCY) -SPRINKLERED THROUGHOUT -NOT MORE THAN 2 STOREYS IN BUILDING HEIGHT (1 STOREY PROVIDED) -IT HAS A BUILDING AREA NOT MORE THAN 4800m² IF 1 STOREY, OR 2400m² IF 2 STOREYS IN BUILDING HEIGHT -IS PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION OR NONCOMBUSTIBLE CONSTRUCTION USED SINGLY OR IN COMBINATION, AND, -FLOOR ASSEMBLIES SHALL BE FIRE SEPARATIONS AND, IF COMBUSTIBLE CONSTRUCTION, SHALL HAVE A FIRE-RESISTANCE RATIING NOT LESS THAN 45 MIN, AND -MEZZANINES SHALL HAVE, IF OF COMBUSTIBLE CONSTRUCTION, A FIRE-RESISTANCE RATING NOT LESS THAN 45 MIN, AND -LOAD BEARING WALLS, COLUMNS AND ARCHES SUPPORTING AN ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 45 MIN, OR BE OF NONCOMBUSTIBLE CONSTRUCTION.	3.2.2.26
SPRINKLER SYSTEM PROPOSED	ENTIRE BUILDING: YES	
STANDPIPE AND HOSE REQUIRED	NO	3.2.5.8
FIRE ALARM REQUIRED	YES	3.2.4.1
HIGH BUILDING	NO	3.2.6
CONSTRUCTION RESTRICTIONS	NONE	
MAJOR OCCUPANCY SEPARATIONS	NONE REQUIRED (THERE ARE NO OTHER MAJOR OCCUPANCIES)	TABLE 3.1.3.1
IMPORTANCE FACTOR	NORMAL	4.1.2.1
OCCUPANT LOAD	TEACHING AND RESEARCH AREAS = 224 (STUDENTS + STAFF) ADMINISTRATIVE AREAS = 40 (SEATING) SERVICE AREAS = 10 (AT 46.00m²/PERSON) CIRCULATION AREAS = 147 (AT 3.70m²/PERSON) LECTURE HALL = 150 (SEATING) EVENT AREA = 129 (POSTED) Total Building Occupancy = 571 + 129 = 700 PEOPLE	3.1.17.
EXITS	LIMIT FOR ONE MEANS OF EGRESS IN FLOOR AREA SPRINKLERED THROUGHOUT – MAXIMUM 200m² AREA OF ROOM OR SUITE, TRAVEL DISTANCE TO AN EGRESS DOOR IS LESS THAN 25m, OCCUPANT LOAD OF NO MORE THAN 60, DOES NOT CONTAIN HIGH-HAZARD INDUSTRIAL OCCUPANCY	3.3.1.5.
	MINIMUM 2 EXITS REQUIRED FOR EACH FLOOR AREA.	3.4.2.1.(1)
	DISTANCE BETWEEN FIRE EXITS ARE ONE HALF THE MAX. DIAGONAL DIMENSION OF THE FLOOR AREA BUT NOT LESS THAN 9m	3.4.2.3.(1)(b)
	TRAVEL DISTANCE – SERVICE AREA: 50m 45m, SPRINKLERED	3.4.2.4. 3.4.2.4(3) 3.4.2.5(1)(c)
	EXIT WIDTH DETERMINED BY MULTIPLYING THE OCCUPANT LOAD OF THE AREA SERVED BY 6.1mm PER PERSON FOR DOORWAYS, CORRIDORS AND PASSAGEWAYS	3.4.3.2(1)(a)
	IF MORE THAN ONE EXIT IS PROVIDED, IT DOES NOT NEED TO CONTRIBUTE MORE THAN HALF OF THE REQUIRED EXIT WIDTH	3.4.3.2(7)
	MINIMUM WIDTHS:	Table 3.4.3.2.A
	EXIT CORRIDORS 1100 mm STAIRS 900 mm RAMPS 1100 mm DOORWAYS 850 mm	
	EXIT DOORS MUST OPEN IN THE DIRECTION OF EXIT TRAVEL	3.4.6.12(1)(a)
GUARDS/HANDRAILS	EVERY EXIT REQUIRES A WALL OR GUARD ON EACH SIDE, WHERE -THERE IS A DIFFERENCE IN ELEVATION OF MORE THAN 600mm BETWEEN THE WALKING SURFACE AND THE ADJACENT SURFACE, OR -THE ADJACENT SURFACE WITHIN 1.2m OF THE WALKING SURFACE HAS A SLOPE OF MORE THAN 1 IN 2.	3.4.6.6(1)
	HEIGHT OF GUARDS SHALL BE NOT LESS THAN 1070mm AROUND LANDINGS	3.4.6.6(2)
	HEIGHT OF HANDRAILS ON STAIRS SHALL BE NOT LESS THAN 865mm AND NOT MORE THAN 1070mm	3.4.6.5(7)
	OPENINGS THROUGH GUARDS CANNOT BE GREATER THAN 100mm	3.4.6.6(5)
CORRIDORS	PUBLIC – 1100mm MIN.	3.3.1.9(1)
	DEAD END CORRIDORS PERMITTTED PROVIDED IT DOES NOT EXCEED 6m	3.3.1.9(5)
STAIRS	LENGTH AND WIDTH OF THE LANDING SHALL BE AT LEAST AS WIDE AND AS LONG AS THE WIDTH OF THE STAIRWAY IN WHICH IT OCCURS BUT NEED NOT BE MORE THAN THE LESSER OF THE REQUIRED WIDTH OF THE STAIR, OR 1100mm	3.4.6.4(1)(2)
	HANDRAILS REQUIRED ON BOTH SIDES OF STAIRS WITH GREATER THAN OR EQUAL WIDTH OF 1100mm	3.4.6.5(2)
	STAIR RUN – AT LEAST 280mm STAIR RISE – 125-180mm	3.4.6.8(1) 3.4.6.8(2)
	LANDING SLOPE – CANNOT EXCEED 1:50	3.4.6.8(7)
	NO LESS THAN 300mm DISTANCE BETWEEN DOOR AND STAIR EDGE	3.4.6.11 (1)
DOORS	AUTOMATIC DOOR RELEASE HARDWARE REQUIRED FOR PRIMARY ENTRANCE AND EXIT DOORS	3.4.6.16(1)
	EXCEPT FOR SERVICE ENTRANCES, ALL PEDESTRIAN ENTRANCES TO A BARRIER-FREE STOREY OF A BUILDING SHALL BE BARRIER-FREE AND CONNECT TO A BARRIER-FREE EXTERIOR PATH OF TRAVEL	3.8.2.2.
ROOMS REQUIRING FIRE SEPARATIONS	MECHANICAL: 1 HOUR ELECTRICAL: 1 HOUR JANITOR ROOM: SEPARATION WITHOUT FRR (WAIVED) GARBAGE/RECYCLING ROOMS: 45 MIN	3.6.2.1.(1) 3.6.2.1.(6) 3.3.1.22.(3) 3.6.2.5.(1)
BARRIER FREE DESIGN	YES	3.8
	IN AN ASSEMBLY OCCUPANCY, THE NUMBER OF SPACES DESIGNATED FOR WHEELCHAIR USE WITHIN ROOMS OR AREAS WITH FIXED SEATS SHALL BE 4 (3+1 FOR EACH ADDITIONAL 70 SEATS IN EXCESS OF 100)	3.8.2.3.(3) Table 3.8.2.3.
	EACH ROW OF SEATS SERVED BY TWO AISLES SHALL HAVE ONE ADAPTABLE SEAT LOCATED ADJACENT TO ONE OF THE AISLES	3.8.2.3.(5)
WASHROOM FIXTURE COUNT	THE NUMBER OF WATER CLOSETS REQUIRED FOR ASSEMBLY OCCUPANCIES SHALL BE: OCCUPANT LOAD: REQUIRED / PROVIDED MAIN FLOOR: 571+129 = 700 TOTAL 6 M, 11 F / 6 M, 11 F	3.7.2.2(4) Table 3.7.2.2.-A
	AT LEAST ONE BARRIER FREE STALL REQUIRED IN A WASHROOM REQUIRED TO HAVE BARRIER FREE ACCESS	3.8.2.8.(5)

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Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
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5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
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2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
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File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Yukon University
Polaris Project

Title
BUILDING CODE MATRIX & LIFE SAFETY PLAN

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A002**

ORIGINAL SHEET - ISO A0

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202-107 Main Street
Whitehorse, YT Y1A 2A7
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Polaris Project

Title
TYPICAL MOUNTING HEIGHTS LEGEND

Project No. 144214760

Scale 1 : 25

Revision 6

Drawing No. A010

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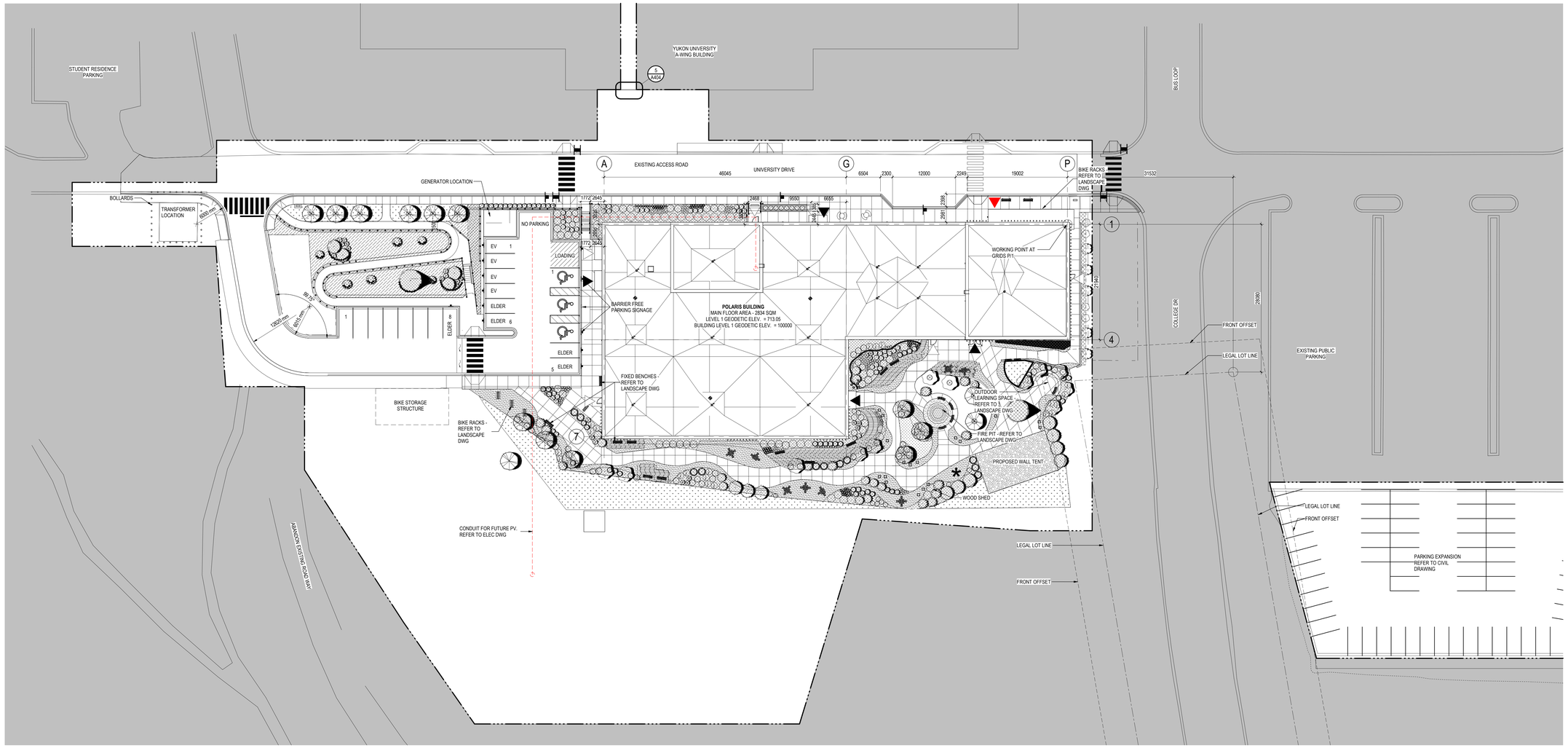

1 SITE PLAN
A100 1 : 300

2 VICINITY PLAN
A100 NOT TO SCALE

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Client/Project Logo

Yukon University

Keyplans

Notes

SITE LEGEND

- PRIMARY ENTRANCE
- SECONDARY ENTRANCE
- ENTRANCE/EXIT
- EXTENT OF CONSTRUCTION
- EXISTING TO REMAIN
- SCOPE OF WORK

NOTE: SEE CIVIL AND LANDSCAPE PLANS FOR EXTENT OF SITE DEMOLITION

		By	Appd	YYYY.MM.DD
6	IRE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14

Issued & Revision

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
SITE PLAN

Project No. 144214760

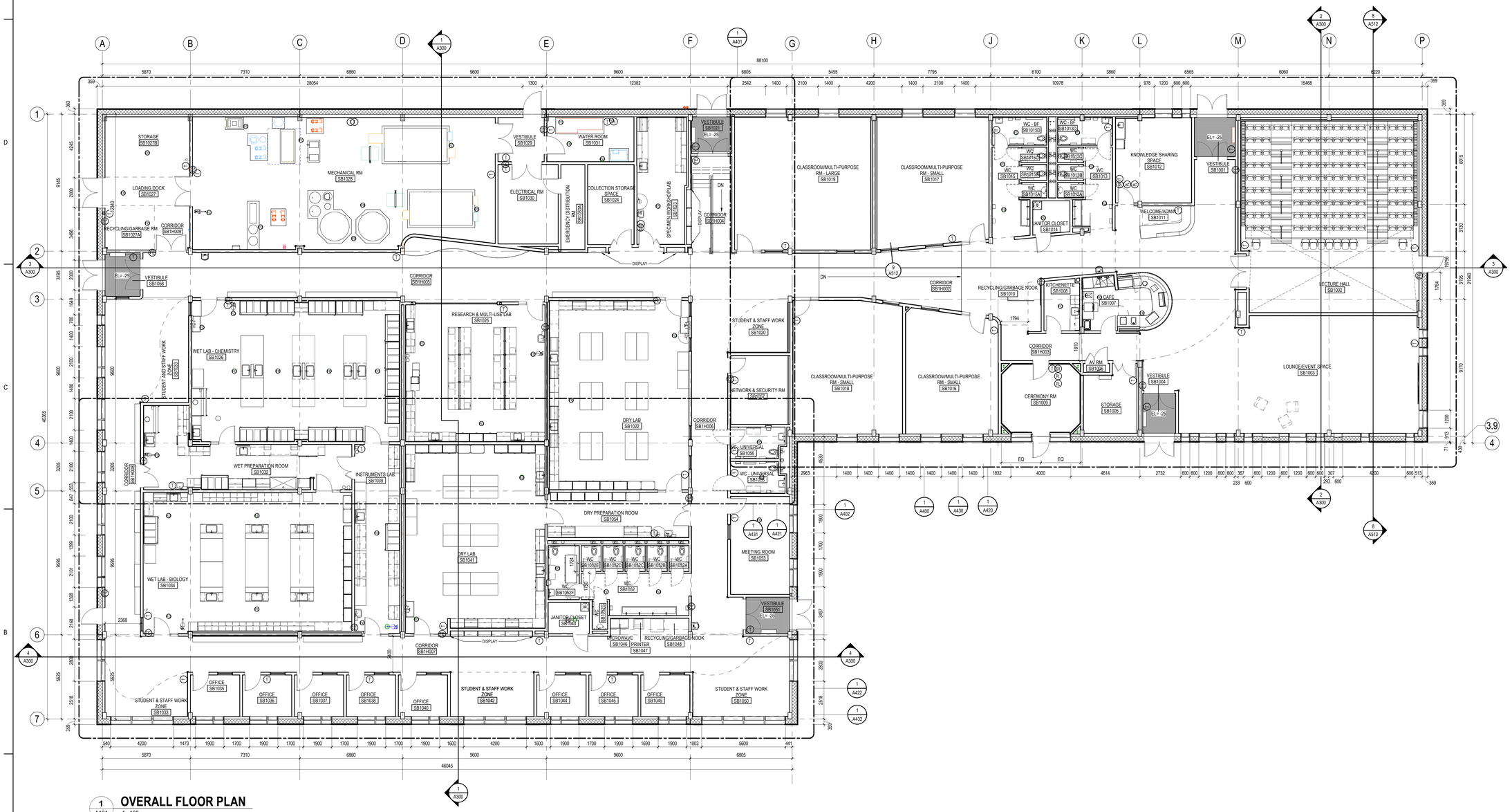
Scale As indicated

Revision 6

Drawing No. **A100**

6/16/2024 1:12:02 AM

ORIGINAL SHEET - ISO A0



1 A101 **OVERALL FLOOR PLAN**
1 : 100

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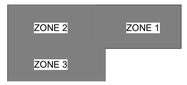
Client/Project Logo

Yukon University

Keyplans



KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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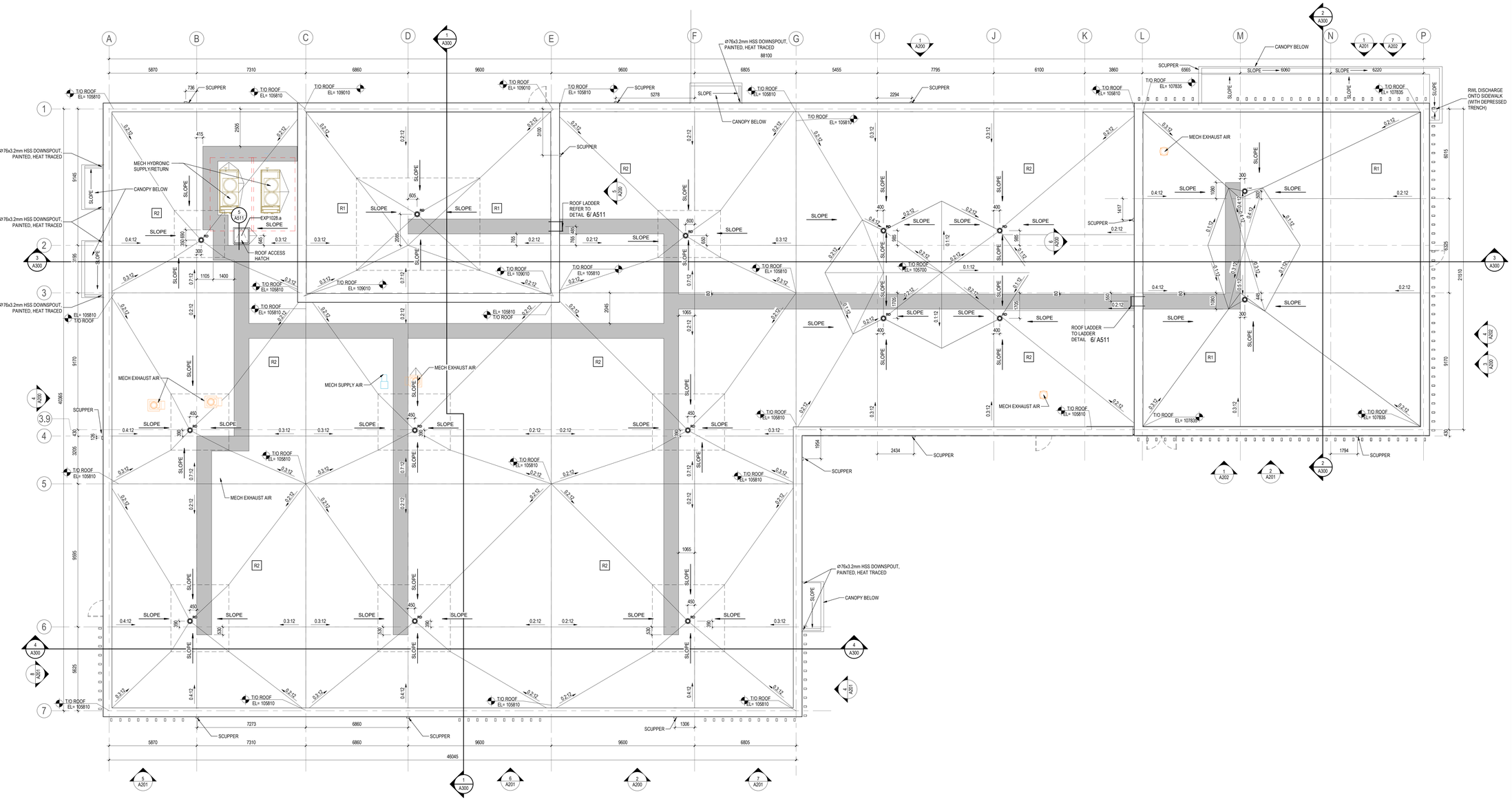
Client/Project
Yukon University
Polaris Project

Title
FLOOR PLAN - OVERALL

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **A101**

ORIGINAL SHEET - ISO A0



1 OVERALL ROOF PLAN
A102 1 : 100

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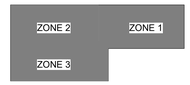
Client/Project Logo

Yukon University

Keyplans



KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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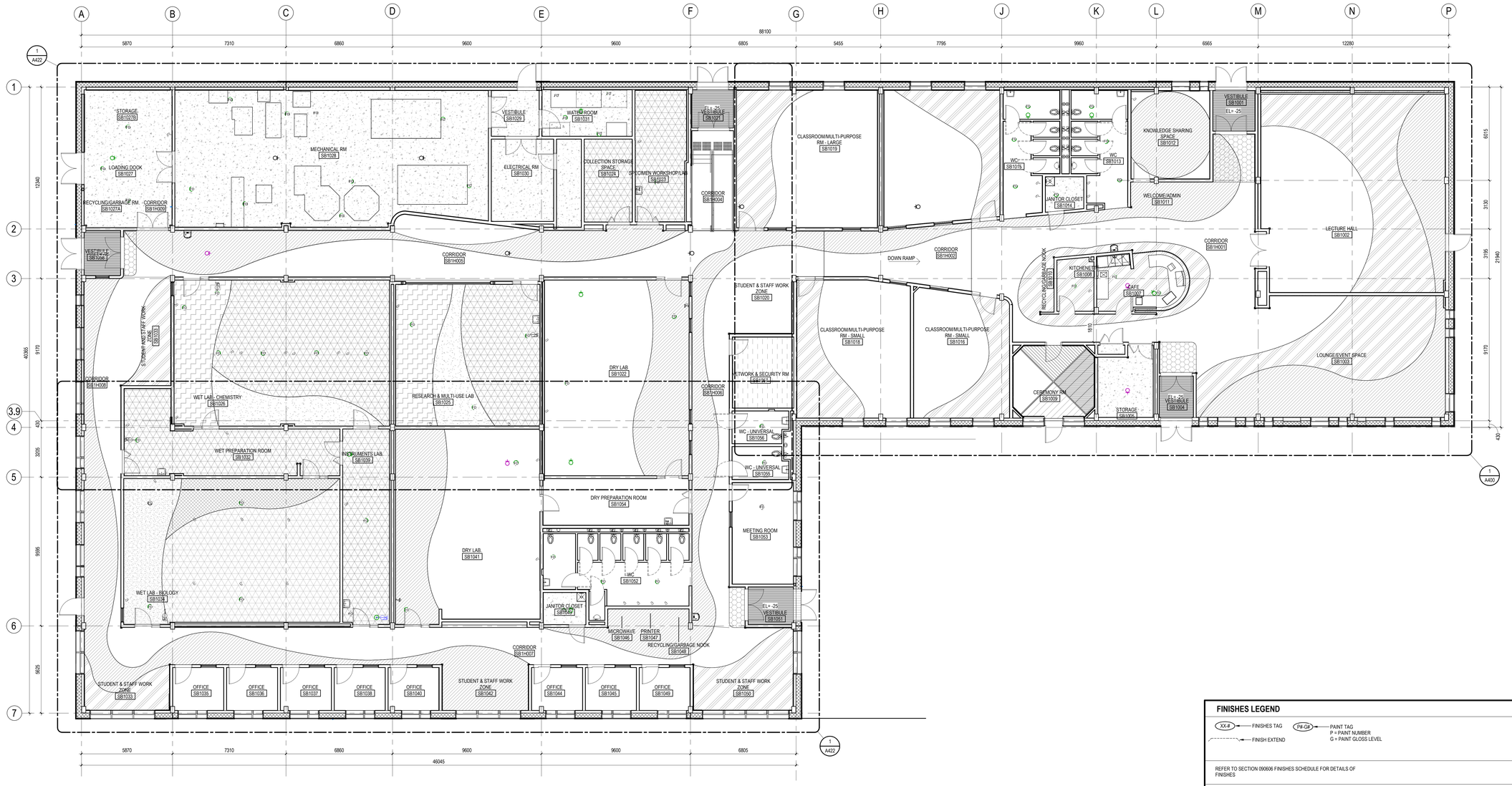
Client/Project
Yukon University
Polaris Project

Title
ROOF PLAN - OVERALL

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **A102**

ORIGINAL SHEET - ISO A0



1 A110 **OVERALL FINISHES PLAN**
1 : 100

FINISHES LEGEND

XX-# — FINISHES TAG
PM-GM — PAINT TAG
P = PAINT NUMBER
G = PAINT GLOSS LEVEL
FINISH EXTEND

REFER TO SECTION 090606 FINISHES SCHEDULE FOR DETAILS OF FINISHES

ACT	ACOUSTIC TILE
ACP	ACOUSTIC CEILING PANEL
CG	CORNER GUARD
GF	GLAZING FILM
GVF	GRAPHIC WALL VINYL
FRP	FIBER REINFORCED PLASTIC
RB	RUBBER BASE
P	PAINT
PL	PLASTIC LAMINATE
SF	SOLID SURFACE
SS	STAINLESS STEEL
WP	WALL PROTECTION
WT	WALL TILE
WV	WOOD VENEER
WWP	WOOD WALL PANEL

FLOORING LEGEND

RSF-1	RESILIENT SHEET FLOORING
RSF-2	RESILIENT SHEET FLOORING
RSF-3	RESILIENT SHEET FLOORING
RSF-4	RESILIENT SHEET FLOORING
RSF-5	RESILIENT SHEET FLOORING
RSF-6	RESILIENT SHEET FLOORING
SC-1	SEALED CONCRETE
RSF-7	RESILIENT SHEET FLOORING
RSF-10	RESILIENT SHEET FLOORING
RSF-11	RESILIENT SHEET FLOORING
RSF-12	RESILIENT SHEET FLOORING
RSF-13	RESILIENT SHEET FLOORING
RSF-14	RUBBER TACTILE WARNING
RSF-15	STAIR TREAD / NOSING
RSF-8	RESILIENT SHEET FLOORING
RSF-9	RESILIENT SHEET FLOORING
WM-1	WALK-OFF MAT - RECESSED
WM-2	WALK-OFF MAT - SURFACE MOUNT

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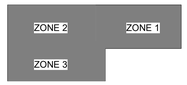
Keyplans



KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
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3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
		By	Appd	YYYY.MM.DD

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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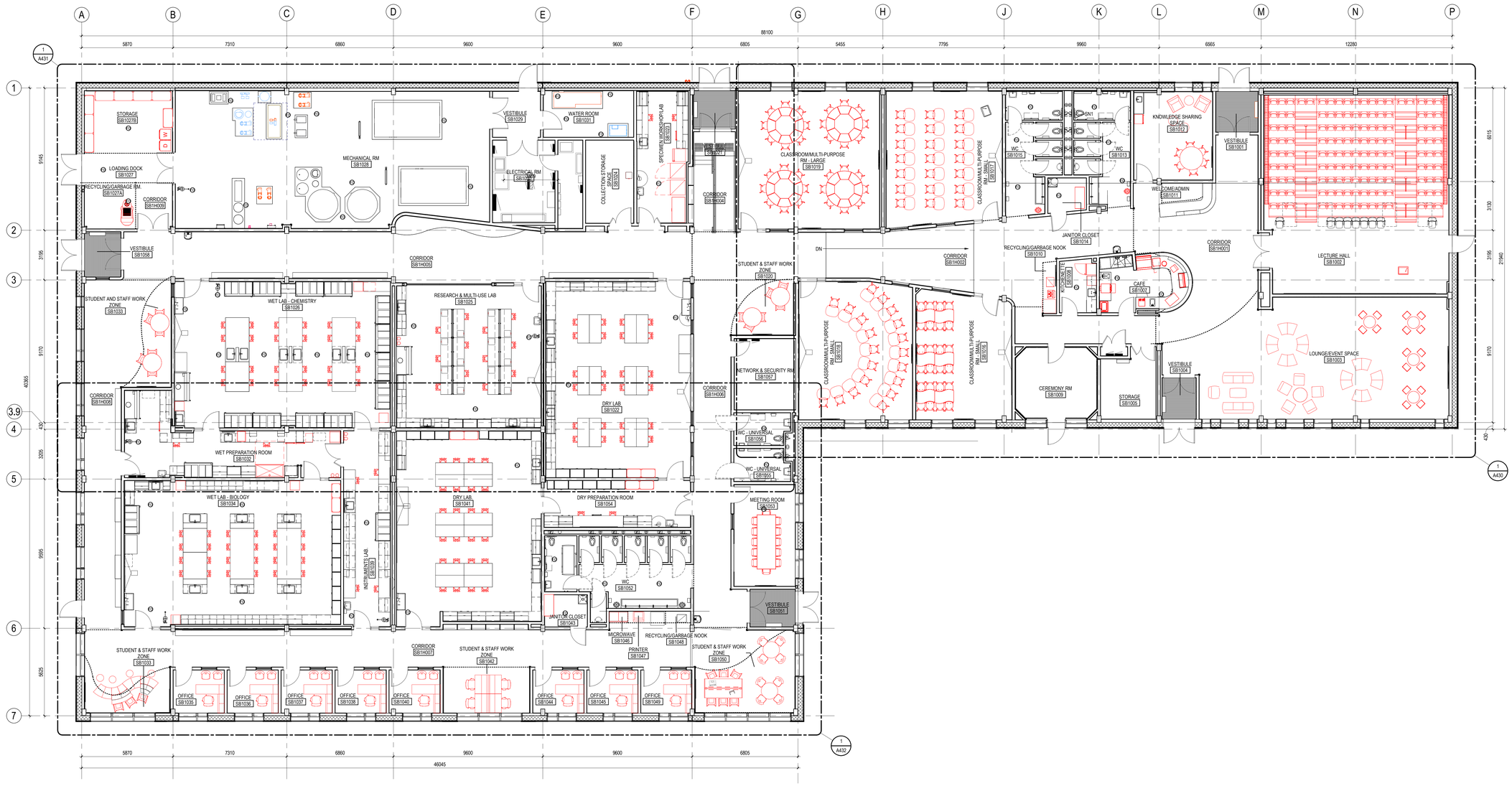
Client/Project
Yukon University
Polaris Project

Title
FINISHES PLAN - OVERALL

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **A110**

ORIGINAL SHEET - ISO A0



1 / A120 FURNITURE & EQUIPMENT PLAN - OVERALL

1 : 100

FFE GENERAL NOTES

1. EQUIPMENT AND FURNISHINGS IN RED OR DASHED ARE N.I.C. AND ARE SHOWN FOR INFORMATION AND COORDINATION PURPOSES ONLY.
2. ACTUAL SIZE OF FURNITURE TO BE CONFIRMED WITH CLIENT PRIOR TO MOVING IN. FURNITURE SIZES ARE REPRESENTATIONAL ONLY.
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SERVICES REQUIRED FOR FFE INDICATED.
4. ALL FURNITURE IN RED ON FURNITURE PLAN IS FOR REFERENCE ONLY.

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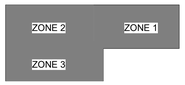
Keyplans



KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
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Polaris Project

Title
FURNITURE & EQUIPMENT PLAN - OVERALL

Project No. 144214760

Scale 1 : 100

Revision 6

Drawing No. **A120**

ORIGINAL SHEET - ISO A0

CEILING FINISH NOTES

1. DRYWALL CONTRACTOR TO ALLOW FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN CEILING.
2. ALL MISCELLANEOUS METALS, TRIMS AND ACCESS PANELS ON CEILINGS ETC., TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE, UNLESS NOTED OTHERWISE.
3. PAINT ALL HORIZONTAL AND VERTICAL BULKHEAD FACES TO MATCH FINISH AS NOTED.
4. ALL EXPOSED STRUCTURAL METAL DECKING TO BE PAINTED P1-G1, UNLESS NOTED OTHERWISE.

CEILING TYPES

CEILING TYPE — ACT — 3000 — CEILING HEIGHT

- ACT-1 — ACT-1 - ACOUSTIC CEILING TILE
  - 610mm x 1220mm ACOUSTIC LAY-IN TILE
  - T-BAR SUSPENDED SYSTEM
- ACT-2 — ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE)
  - 610mm x 1220mm ACOUSTIC LAY-IN TILE
  - T-BAR SUSPENDED SYSTEM
- ACT-3 — ACT-3 - WOOD SLAT
  - 300mm WOOD SLAT
  - SUSPENSION SYSTEM
- GWB-1 — GWB-1 - GYPSUM BOARD CEILING
  - 16mm GYPSUM BOARD
  - SUSPENSION SYSTEM
- EXP — U/S — EXP - EXPOSED STRUCTURE
  - PAINTED STEEL DECK
  - PAINTED STRUCTURE
- EXP-W — U/S — EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE
  - PAINTED STEEL DECK
  - PAINTED STRUCTURE
  - INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

CEILING TYPES

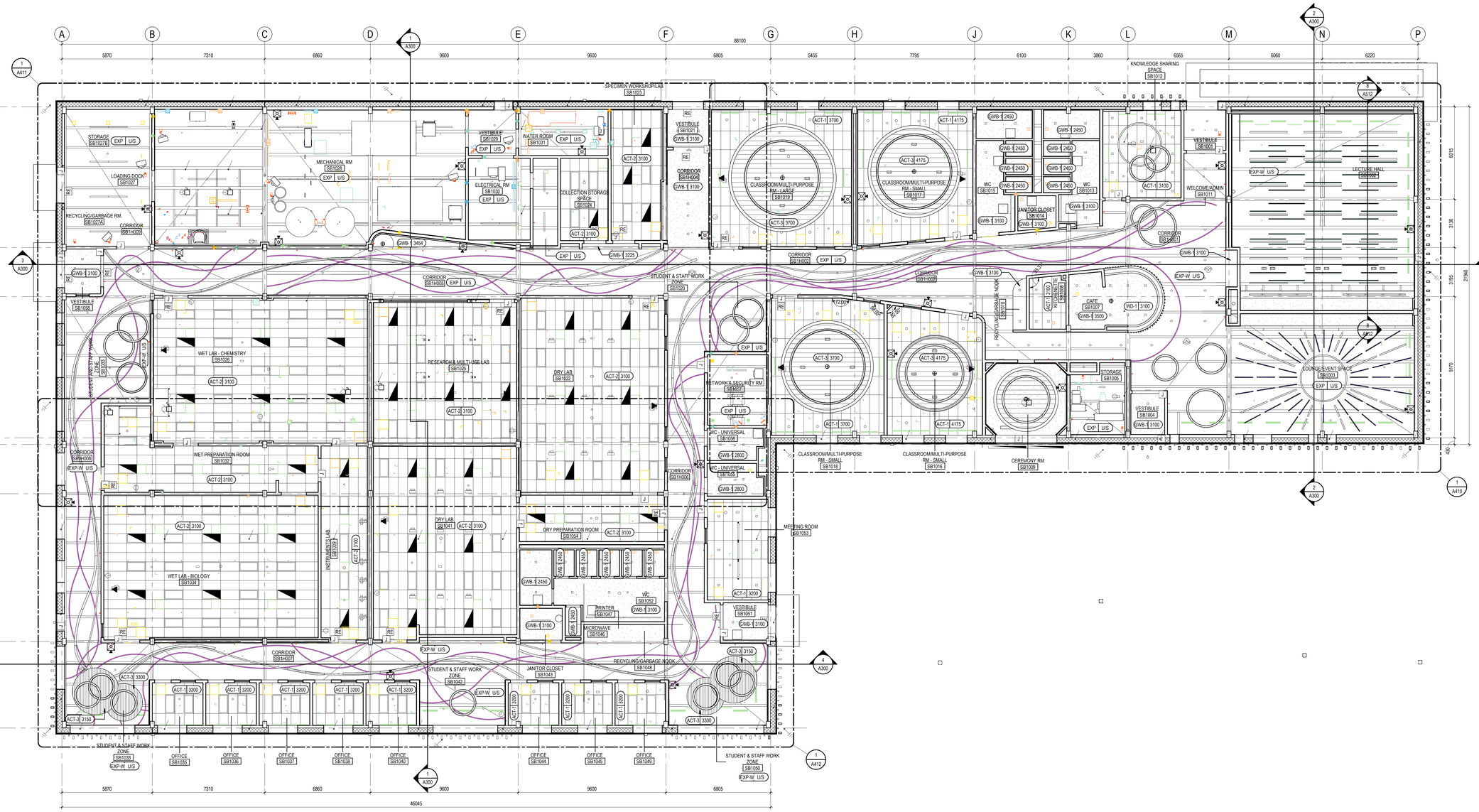
CEILING TYPE — ACT — 3000 — CEILING HEIGHT

- ACP-1-4 — ACP-1-4 - ACOUSTIC CEILING PANEL
  - 1168mm x 254mm ACOUSTIC BLADE
  - SUSPENDED SYSTEM
- ACP-5 — ACP-5 - ACOUSTIC CEILING PANEL
  - 1220mm x 254mm ACOUSTIC BLADE
  - SUSPENDED SYSTEM
- ACP-6 — ACP-6 - ACOUSTIC CEILING PANEL
  - WIDTH VARIES x 190mm H ACOUSTIC CURVED BLADE
  - SUSPENDED SYSTEM
  - 3965 AFF FROM LEVEL 1
- WD-1 — WD-1 - WOOD CEILING
  - 16mm PLYWOOD W/ FL-1
  - SUSPENSION SYSTEM

REFLECTED CEILING PLAN LEGEND

- RECESSED LUMINAIRE
- EMERGENCY RECESSED LUMINAIRE
- SURFACE MOUNTED / SUSPENDED LUMINAIRE
- EMERGENCY SURFACE MOUNTED / SUSPENDED LUMINAIRE
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED / SUSPENDED PENDANT LIGHT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED EMERGENCY LUMINAIRE
- WALL MOUNTED EMERGENCY LIGHTING
- CEILING MOUNTED EMERGENCY LIGHTING
- RECESSED POT LIGHT
- MECHANICAL DIFFUSER
- EXHAUST FAN
- RETURN AIR GRILLE

TRUE NORTH



1 A150 **OVERALL RCP - MAIN FLOOR**
1 : 100

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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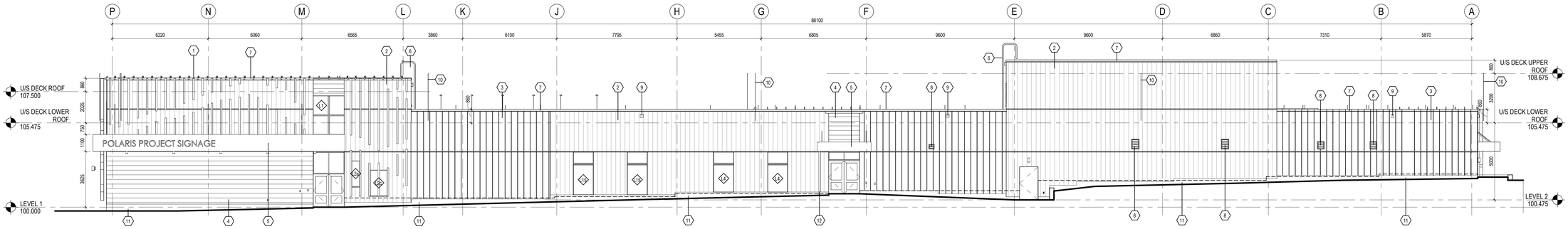
Client/Project
Yukon University
Polaris Project

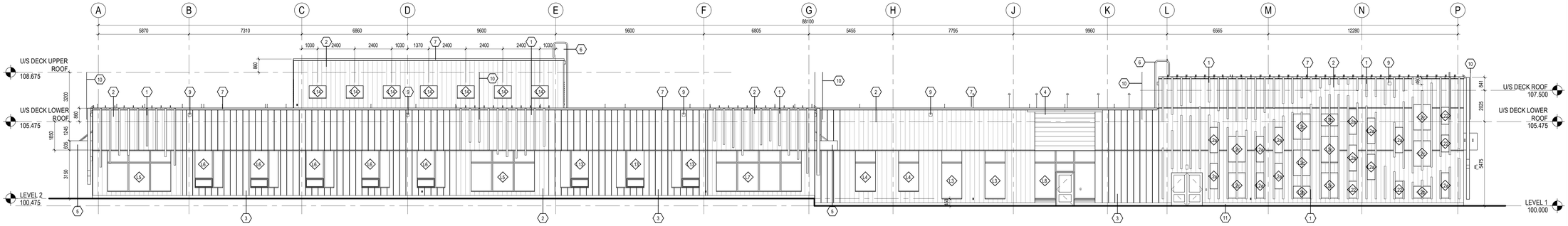
Title
REFLECTED CEILING PLAN - OVERALL

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **A150**

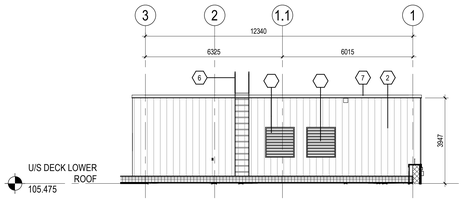
ORIGINAL SHEET - ISO A0



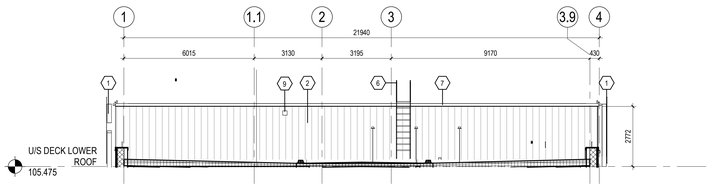
1 A200 ELEVATION - NORTH
1 : 100



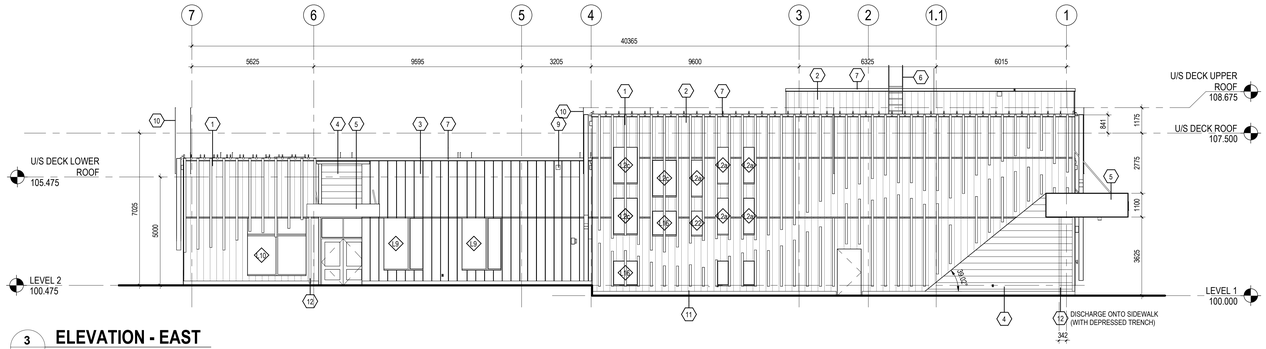
2 A200 ELEVATION - SOUTH
1 : 100



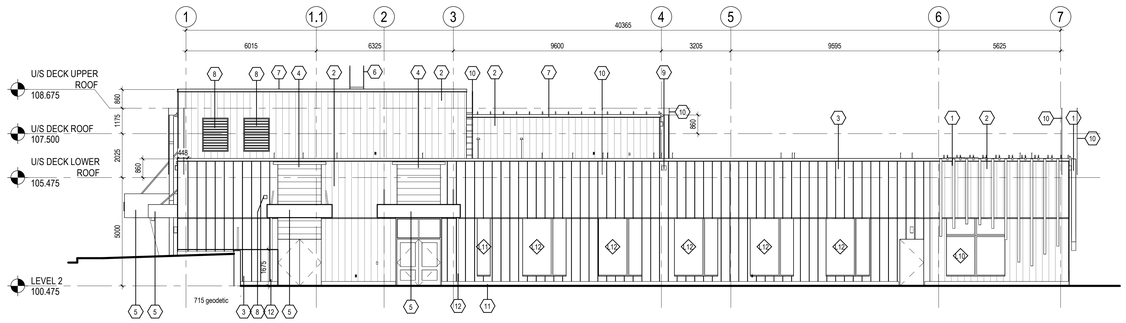
5 A200 ELEVATION - PARTIAL WEST
1 : 100



6 A200 ELEVATION - PARTIAL EAST
1 : 100



3 A200 ELEVATION - EAST
1 : 100



4 A200 ELEVATION - WEST
1 : 100

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Client/Project Logo

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Keyplans

Notes

EXTERIOR FINISHES

Key Value	Keynote Text
1	STAINED CEDAR - TIMBER
2	VIC WEST AD300 METAL CLADDING - NATURAL ZINC
3	FORMA STEEL - FORMA LOC 406mm METAL CLADDING - WHITE
4	METALWORK - TRADITIONAL PANEL METAL CLADDING - AUTUMN
5	FIBRE CEMENT BOARD - CHARCOAL
6	ROOF LADDER - GALVANIZED
7	PRE-FINISHED METAL CAP FLASHING - COLOUR TO MATCH EXTERIOR CLADDING
8	MECHANICAL LOUVER - COLOUR TO MATCH EXTERIOR CLADDING
9	SCUPPER DETAIL 9/A511
10	ELECTRICAL - GROUNDING ROD
11	TYPICAL BASE - GALVANIZED METAL PLATE BASE
12	DOWNSPOUT

Issued & Revision				
6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
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1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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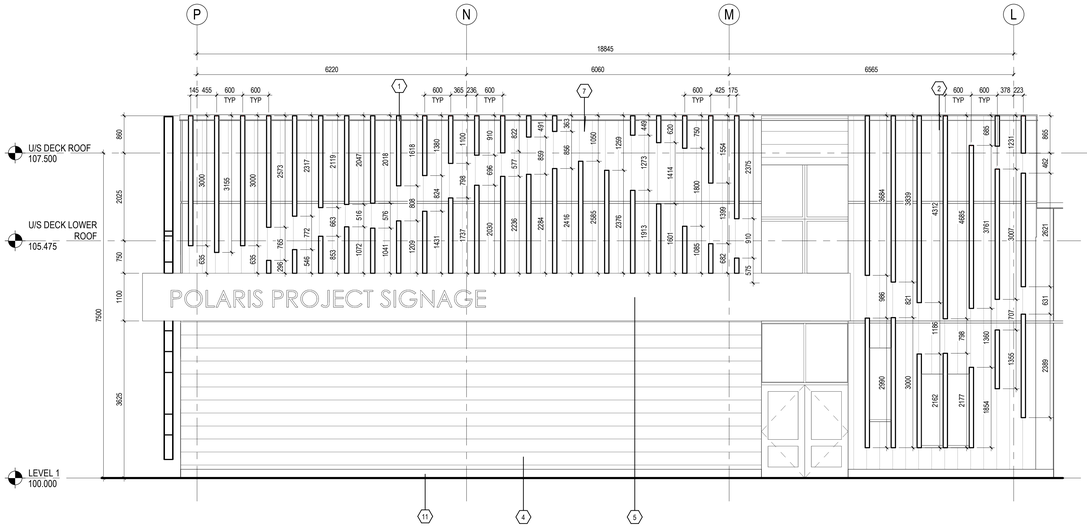
Client/Project
Yukon University
Polaris Project

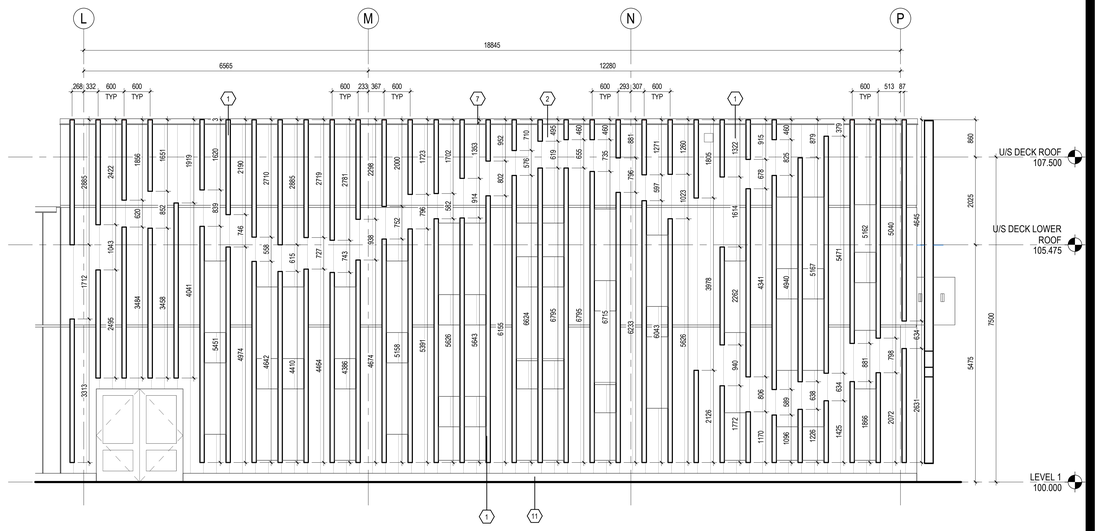
Title
EXTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **A200**

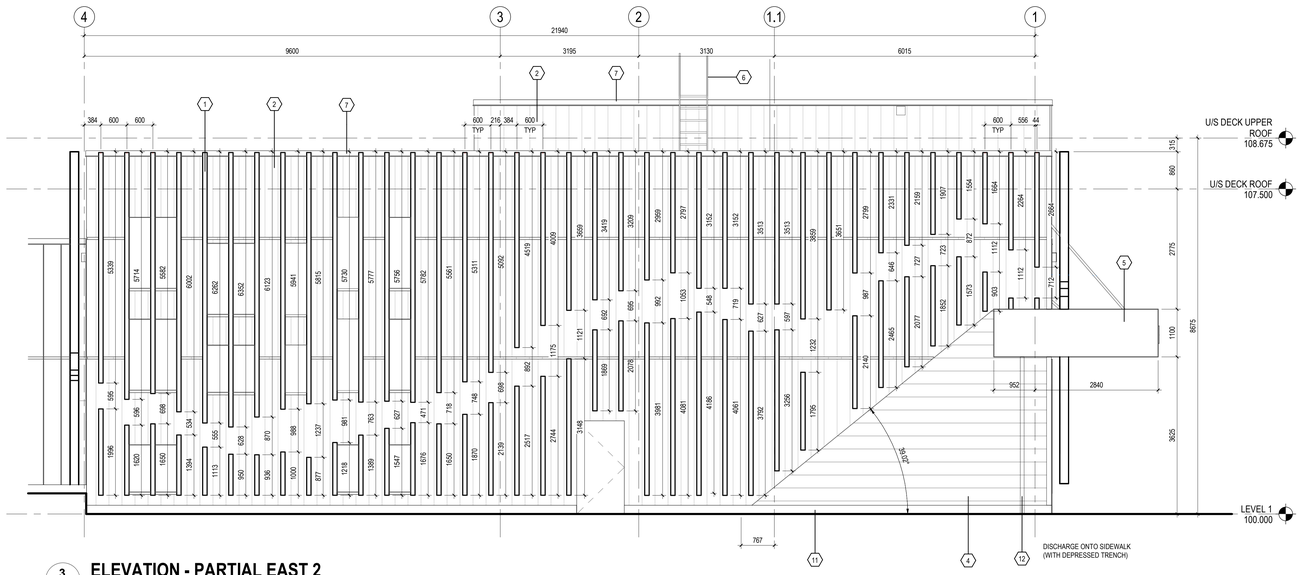
ORIGINAL SHEET - ISO A0



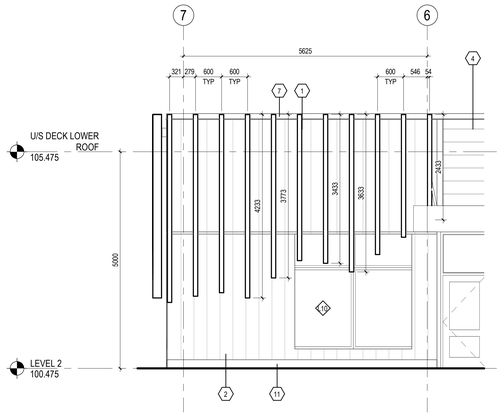
1 A201 **ELEVATION - PARTIAL NORTH**
1 : 50



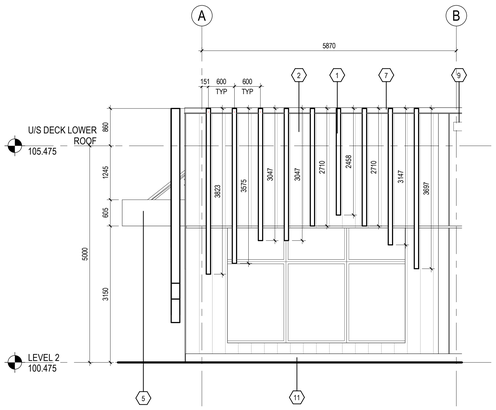
2 A201 **ELEVATION - PARTIAL SOUTH**
1 : 50



3 A201 **ELEVATION - PARTIAL EAST 2**
1 : 50



4 A201 **ELEVATION - PARTIAL EAST 3**
1 : 50



5 A201 **ELEVATION - PARTIAL SOUTH 2**
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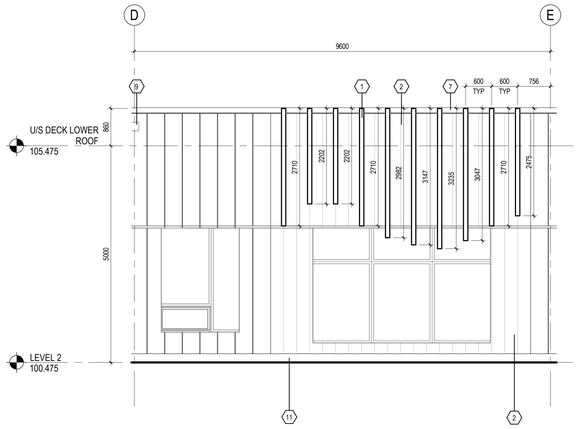
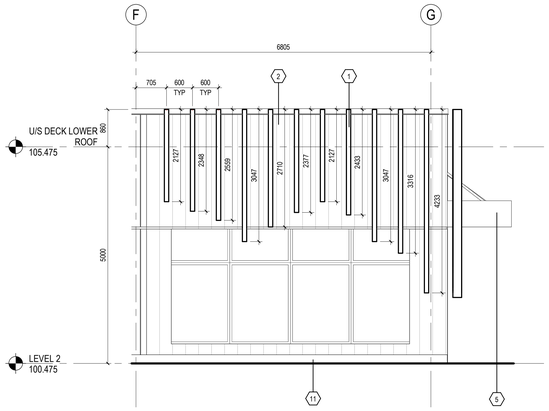
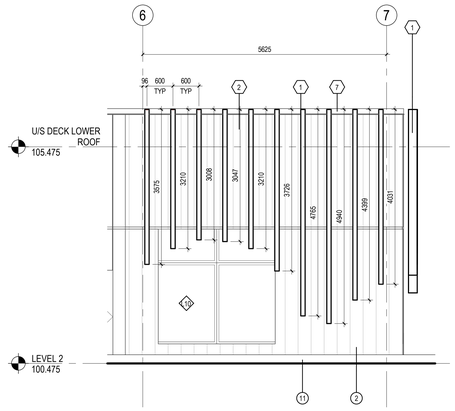


6 A201 **ELEVATION - PARTIAL SOUTH 3**
1 : 50



7 A201 **ELEVATION - PARTIAL SOUTH 4**
1 : 50



8 A201 **ELEVATION - PARTIAL WEST 2**
1 : 50

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Client/Project Logo

Yukon University

Keyplans

Notes

EXTERIOR FINISHES	
Key Value	Keynote Text
1	STAINED CEDAR - TIMBER
2	VIC WEST AD300 METAL CLADDING - NATURAL ZINC
3	FORMA STEEL - FORMA LOC 406mm METAL CLADDING - WHITE
4	METALWORK - TRADITIONAL PANEL METAL CLADDING - AUTUMN
5	FIBRE CEMENT BOARD - CHARCOAL
6	ROOF LADDER - GALVANIZED
7	PRE-FINISHED METAL CAP FLASHING - COLOUR TO MATCH EXTERIOR CLADDING
8	MECHANICAL LOUVER - COLOUR TO MATCH EXTERIOR CLADDING
9	SCUPPER DETAIL 9A611
10	ELECTRICAL - GROUNDING ROD
11	TYPICAL BASE - GALVANIZED METAL PLATE BASE
12	DOWNSPOUT

Issued & Revision				
5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/20/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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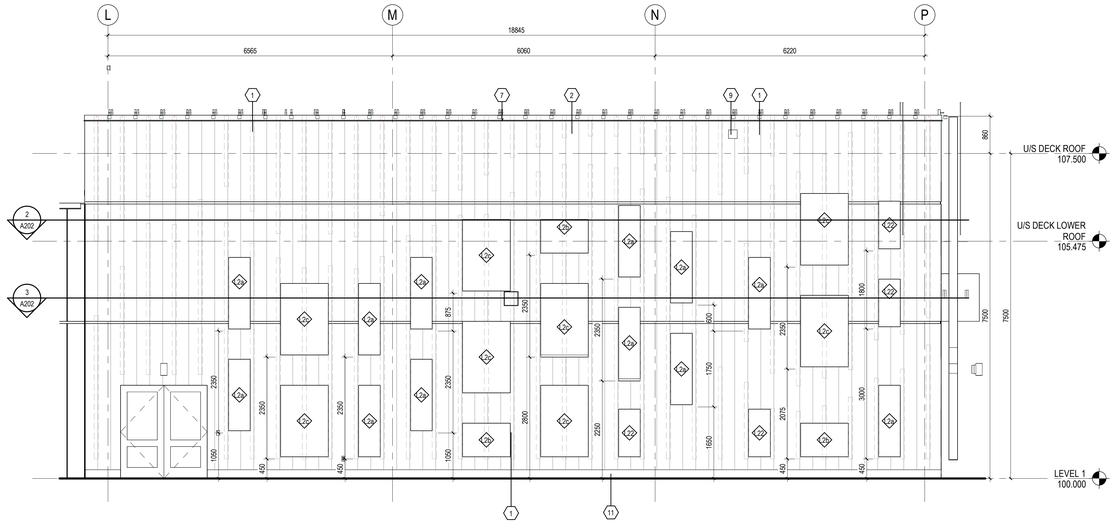
Client/Project
Yukon University
Polaris Project

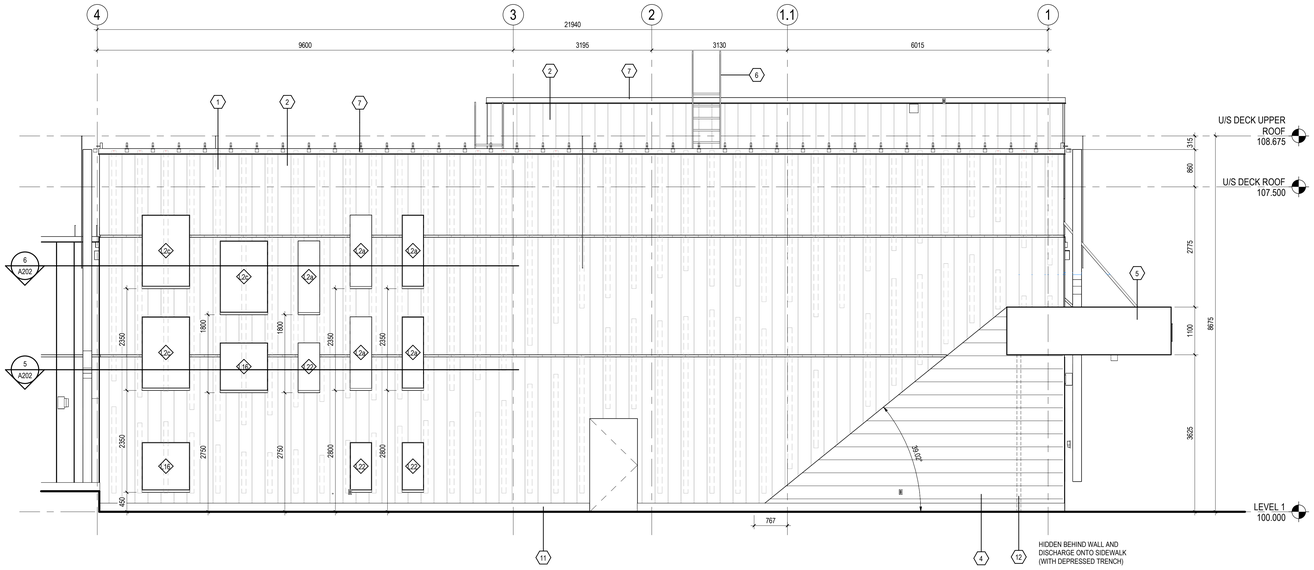
Title
EXTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 5
Drawing No. **A201**

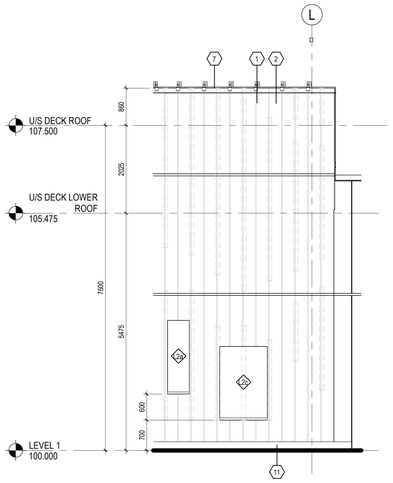
ORIGINAL SHEET - ISO A0



1 A202 **ELEVATION - PARTIAL SOUTH 5**
1 : 50



4 A202 **ELEVATION - PARTIAL EAST 4**
1 : 50



7 A202 **ELEVATION - PARTIAL NORTH 2**
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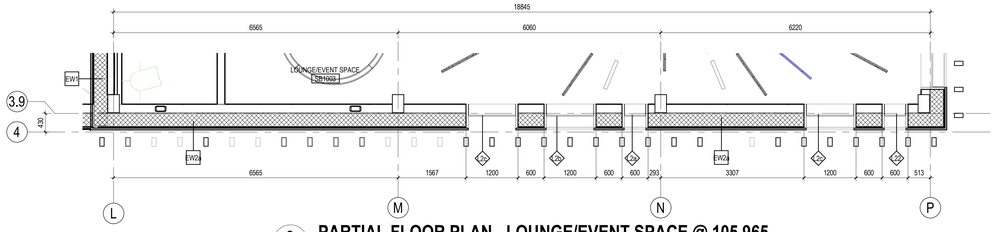
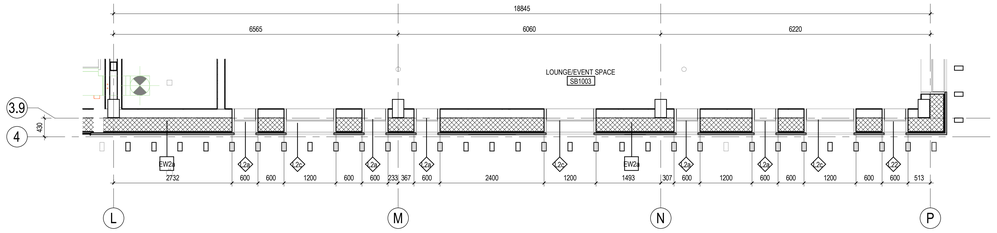
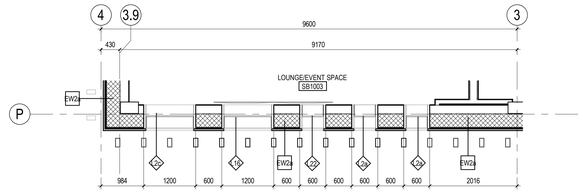


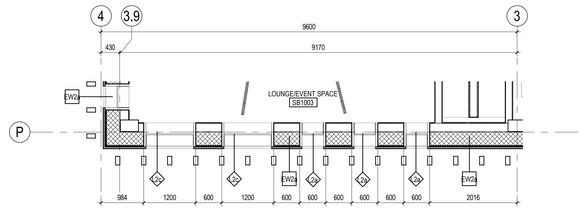
2 A202 **PARTIAL FLOOR PLAN - LOUNGE/EVENT SPACE @ 105.965**
1 : 50



3 A202 **PARTIAL FLOOR PLAN - LOUNGE/EVENT SPACE @ 104.165**
1 : 50



5 A202 **PARTIAL FLOOR PLAN - LOUNGE/EVENT SPACE @ 103.280**
1 : 50



6 A202 **PARTIAL FLOOR PLAN - LOUNGE/EVENT SPACE @ 105.680**
1 : 50

TRUE NORTH

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Keyplans

Notes

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9	SCUPPER DETAIL 9/A511
10	ELECTRICAL - GROUNDING ROD
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12	DOWNSPOUT

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/20/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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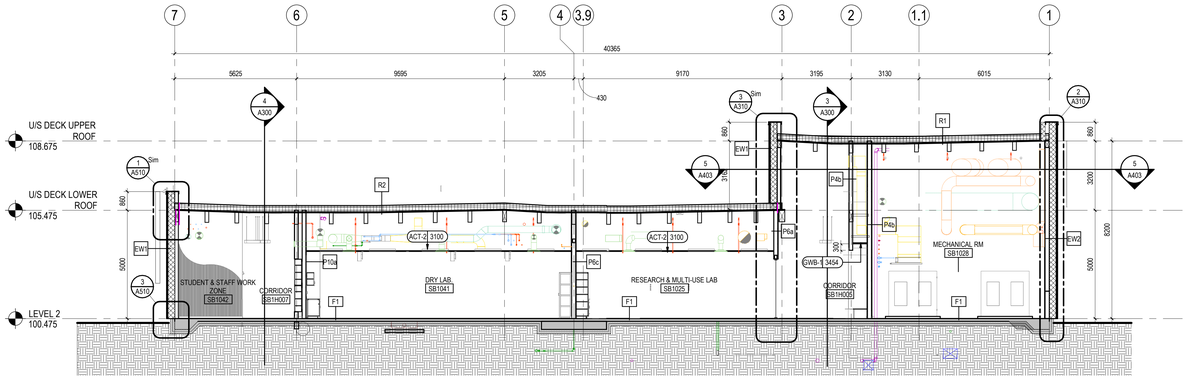
Yukon University
Polaris Project

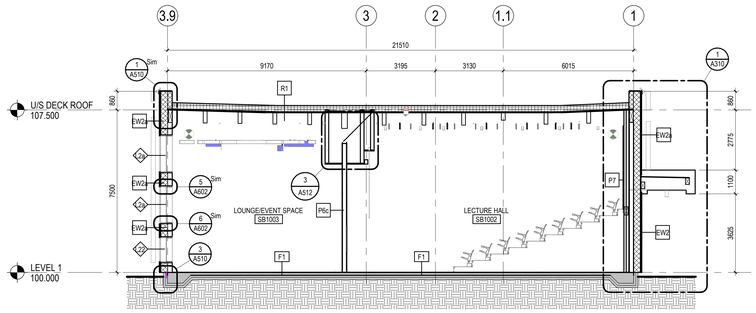
Title
EXTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 5
Drawing No. **A202**

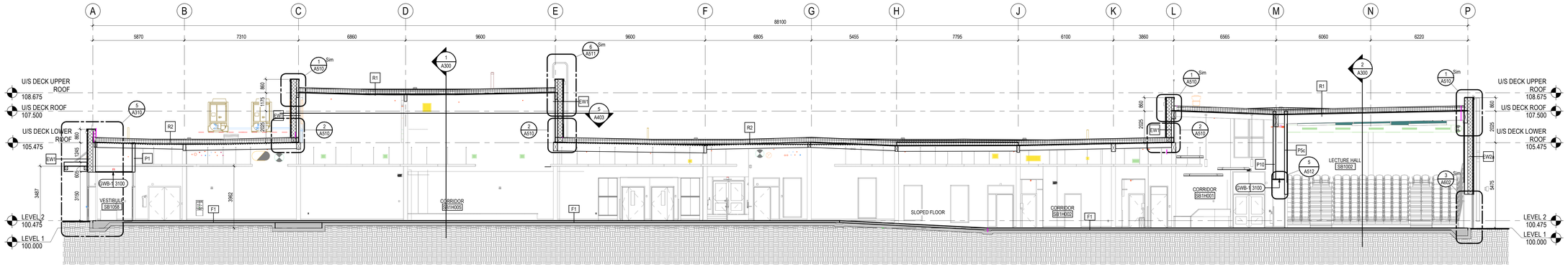
ORIGINAL SHEET - ISO A0



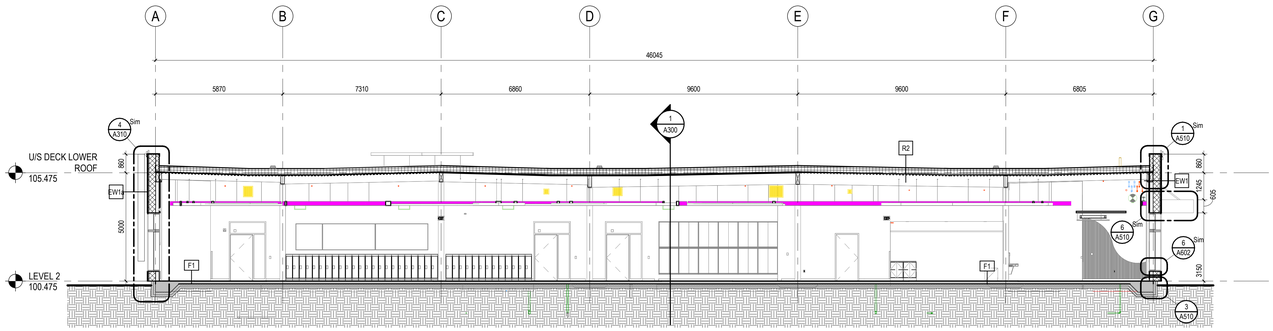
1 A300 **NORTH - SOUTH SECTION LOOKING EAST**
1 : 100



2 A300 **NORTH-SOUTH BUILDING SECTION LOOKING WEST**
1 : 100



3 A300 **EAST - WEST SECTION LOOKING NORTH**
1 : 100



4 A300 **WEST-EAST SECTION LOOKING NORTH**
1 : 100

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Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
BUILDING SECTIONS

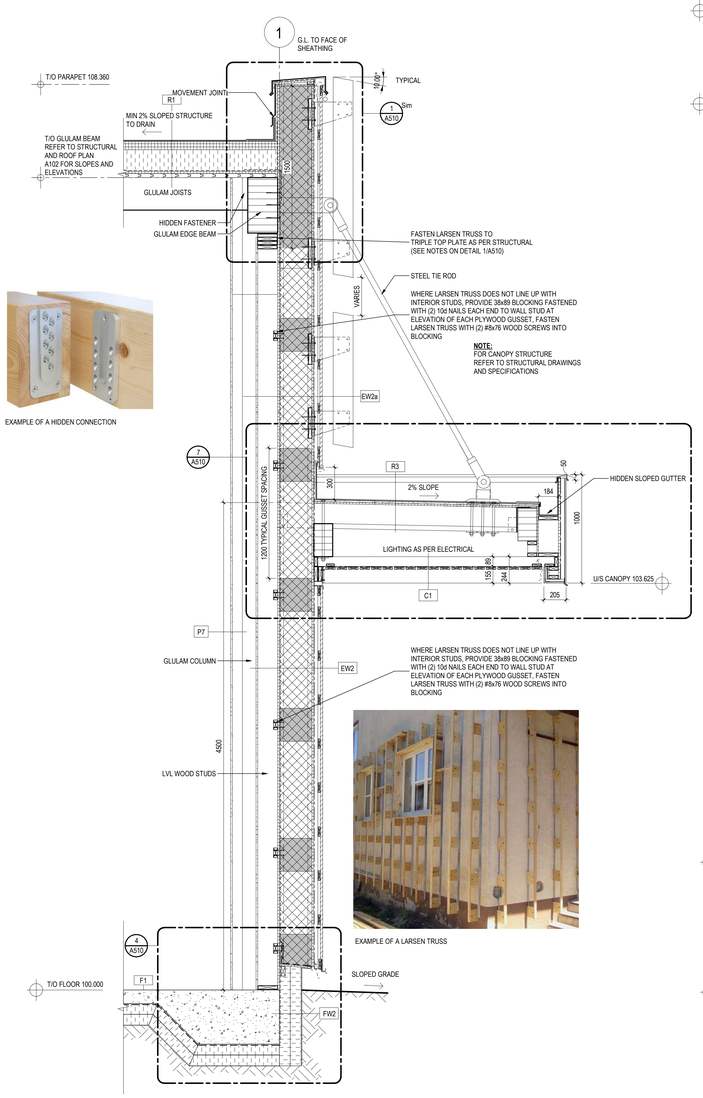
Project No.
144214760

Scale
1 : 100

Revision
6

Drawing No.
A300

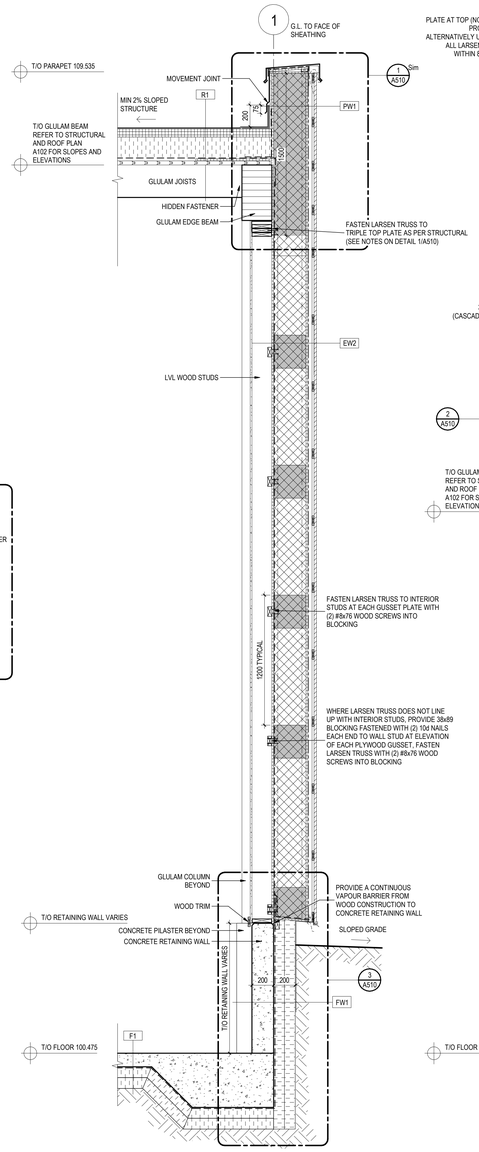
ORIGINAL SHEET - ISO A0



EXAMPLE OF A HIDDEN CONNECTION

EXAMPLE OF A LARSEN TRUSS

1 A310 WALL SECTION
1 : 20



2 A310 WALL SECTION
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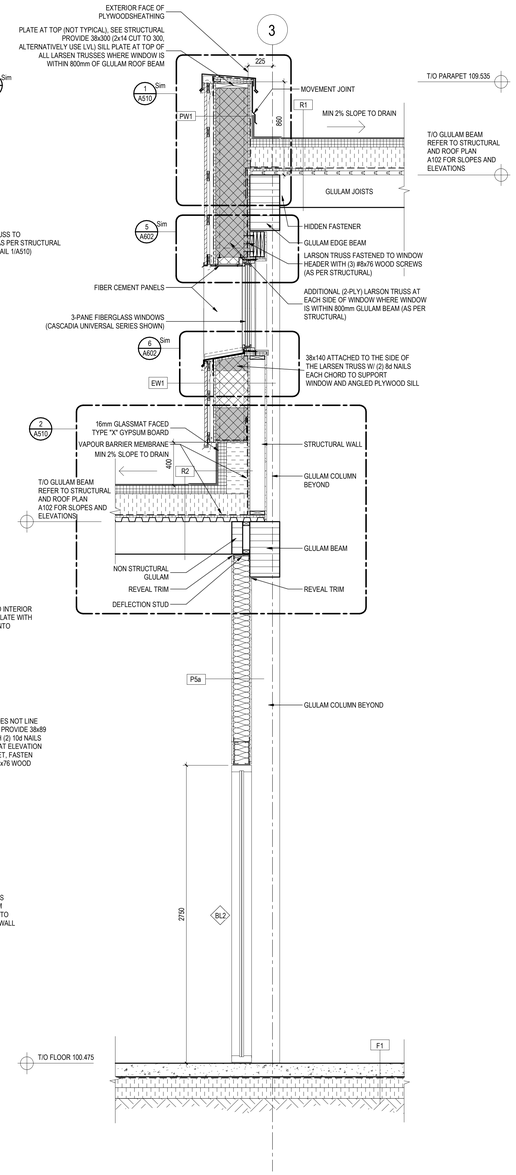

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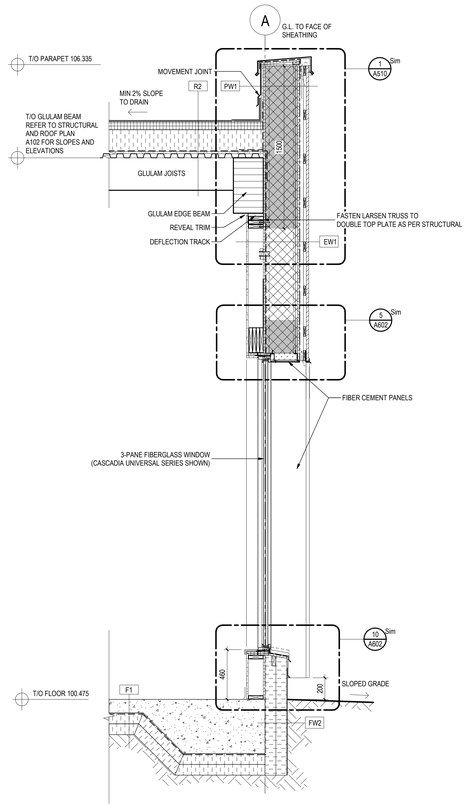
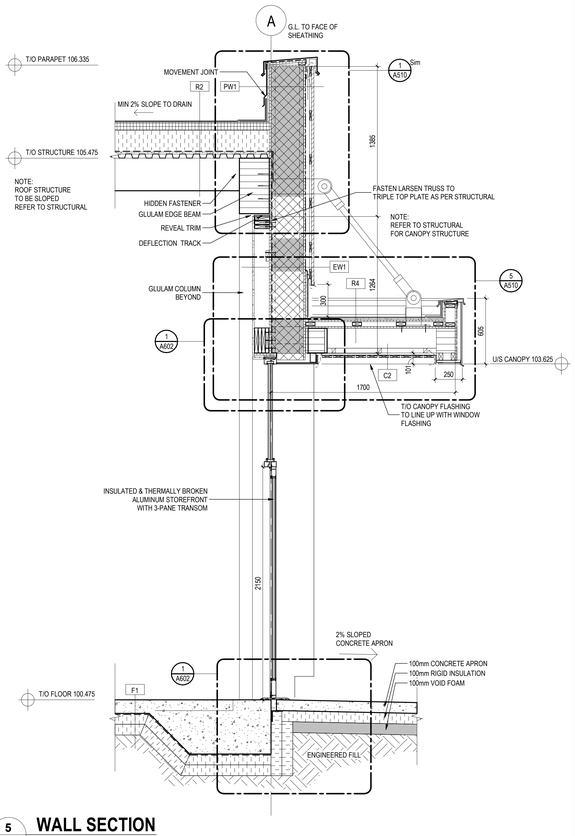


4 A310 WALL SECTION
1 : 20



5 A310 WALL SECTION
1 : 20

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
WALL SECTIONS

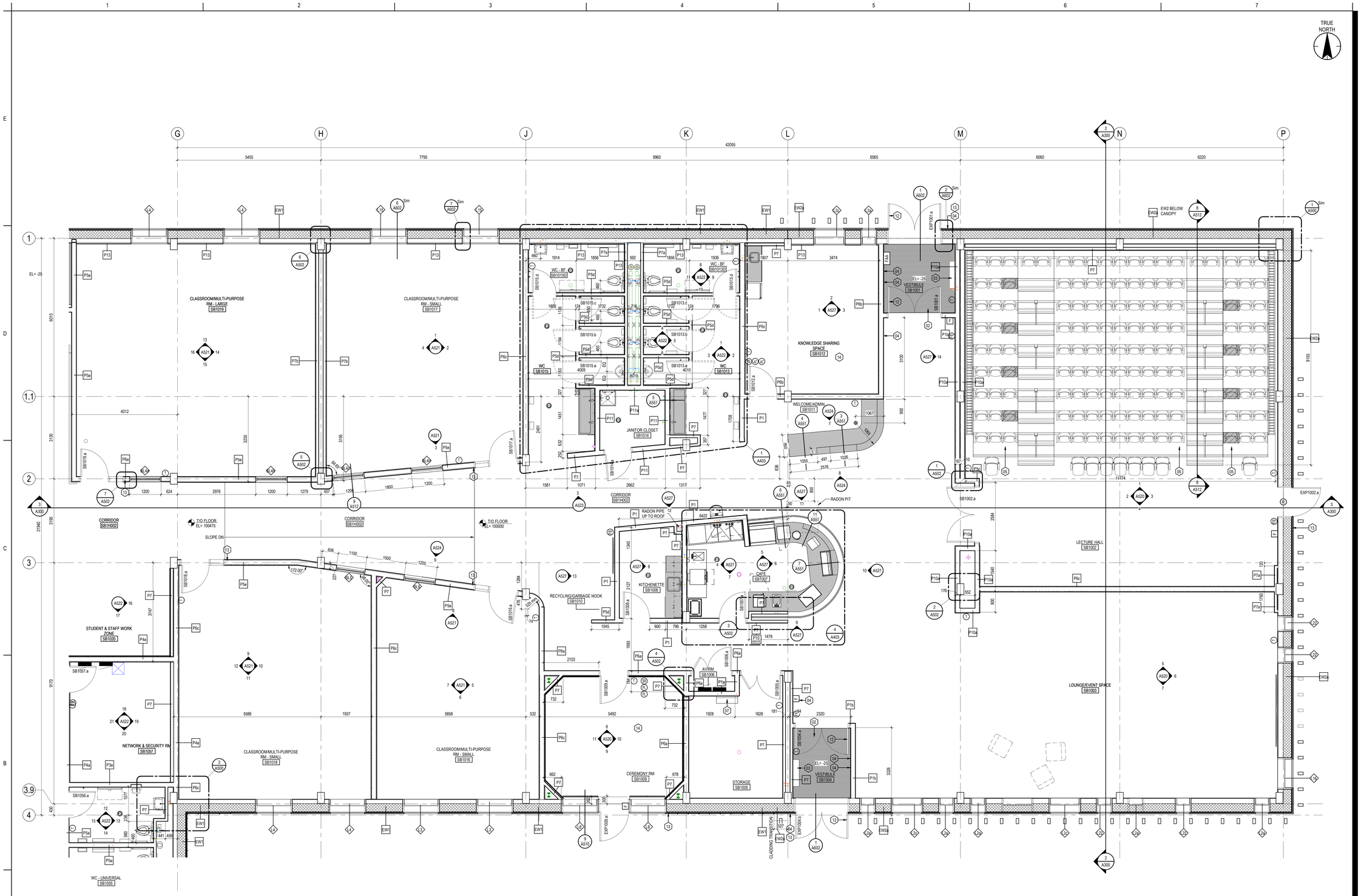
Project No. 144214760

Scale 1 : 20

Revision 6

Drawing No. **A310**

ORIGINAL SHEET - ISO A0



1 A400 **FLOOR PLAN - ENLARGED ZONE 1**
1 : 50

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

KEYNOTE - FLOOR PLANS	
NO.	DESCRIPTION
01	FIRE DEPARTMENT CONNECTION
02	RECESSED WALK OFF MAT
03	CABINET UNIT HEATER - REFER TO MECH
04	AUTO. DOOR OPERATOR @ 110mm AND 300mm AFF
05	TELESCOPIC BLEACHERS
07	MECHANICAL CONVERTOR - REFER TO MECH
08	100mm HIGH HOUSEKEEPING PAD
09	LADDER TO ROOF ACCESS HATCH
10	EMERGENCY SHOWER AND EYE WASH
11	EMERGENCY EYE WASH
12	ACTIVE DOOR LEAF
13	CARD READER
14	AIR TIGHT SEALED ROOM

4	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
3	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	09/23/22
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Yukon University
Polaris Project

Title
ENLARGED FLOOR PLANS - ZONE 1

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. **A400**

ORIGINAL SHEET - ISO A0

1 A401 **FLOOR PLAN - ENLARGED ZONE 2**

1 : 50

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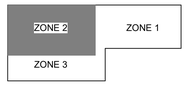
Keyplans



KEYPLAN

Notes

KEYNOTE - FLOOR PLANS	
NO.	DESCRIPTION
01	FIRE DEPARTMENT CONNECTION
02	RECESSED WALK OFF MAT
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07	MECHANICAL CONVERTOR - REFER TO MECH
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3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

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File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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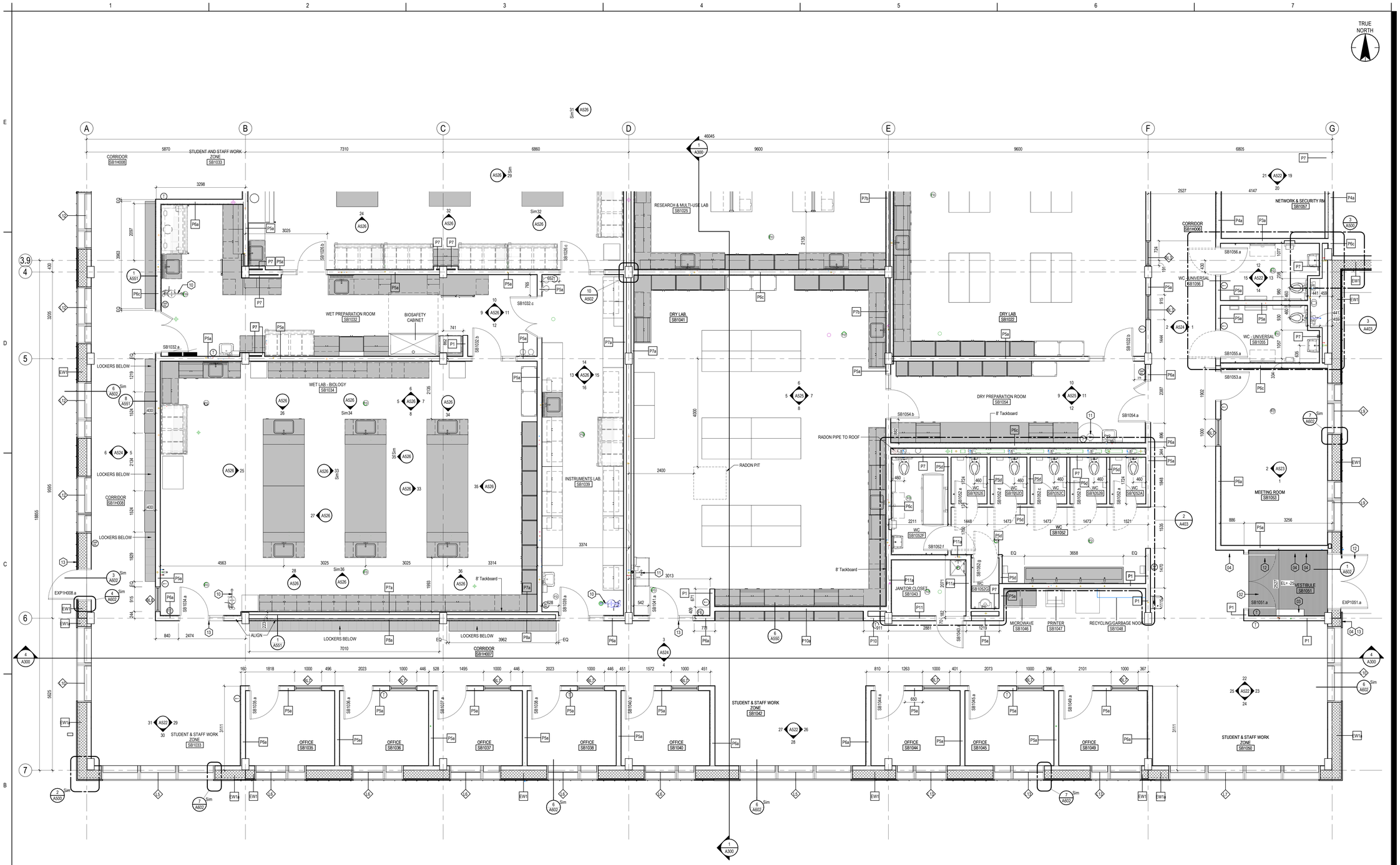
Client/Project
Yukon University
Polaris Project

Title
ENLARGED FLOOR PLANS - ZONE 2

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. **A401**

ORIGINAL SHEET - ISO A0



1 A402 FLOOR PLAN - ENLARGED ZONE 3

1 : 50

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Keyplans

KEYPLAN

Notes

KEYNOTE - FLOOR PLANS	
NO.	DESCRIPTION
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4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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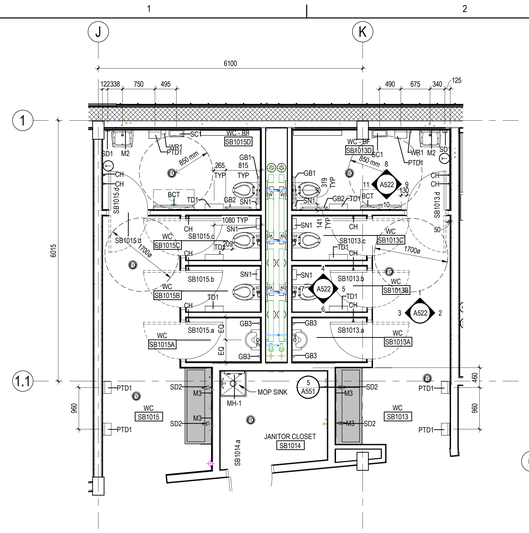
Client/Project
Yukon University
Polaris Project

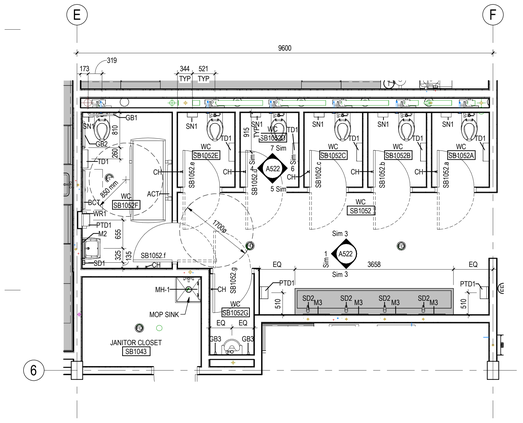
Title
ENLARGED FLOOR PLANS - ZONE 3

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. A402

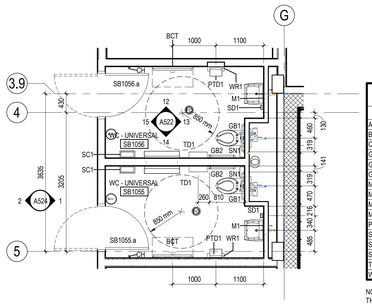
ORIGINAL SHEET - ISO A0



1 A403 FLOOR PLAN - WASHROOM - ZONE 1
1 : 50



2 A403 FLOOR PLAN - WASHROOM - ZONE 3
1 : 50

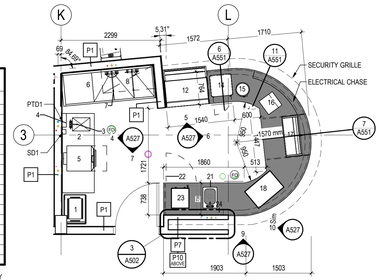


3 A403 FLOOR PLAN - UNIVERSAL WR - ZONE 3
1 : 50

WASHROOM ACCESSORY LEGEND

TYPE	DESCRIPTION
ACT	ADULT CHANGING STATION
BCT	BABY CHANGING STATION
CH	SURFACE MOUNTED COAT HOOK
GB1	600 STRAIGHT GRAB BAR
GB2	750 x 750 90 DEGREE GRAB BAR
GB3	600 VERTICAL GRAB BAR
M1	450 x 1000 CHANNEL FRAME MIRROR
M2	450 x 750 CHANNEL FRAME MIRROR
M3	900 HIGH FRAMELESS MIRROR x VANITY LENGTH
MH-1	MOP HOOK
PTD1	DISPENSER, PAPER TOWEL, SURFACE MOUNTED
SC1	WALL MOUNTED SHARPS CONTAINER
SD1	WALL MOUNTED SOAP DISPENSER
SN1	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
TD1	SURFACE MOUNTED TOILET PAPER DISPENSER
WR1	RECESSED WASTE RECEPTACLE

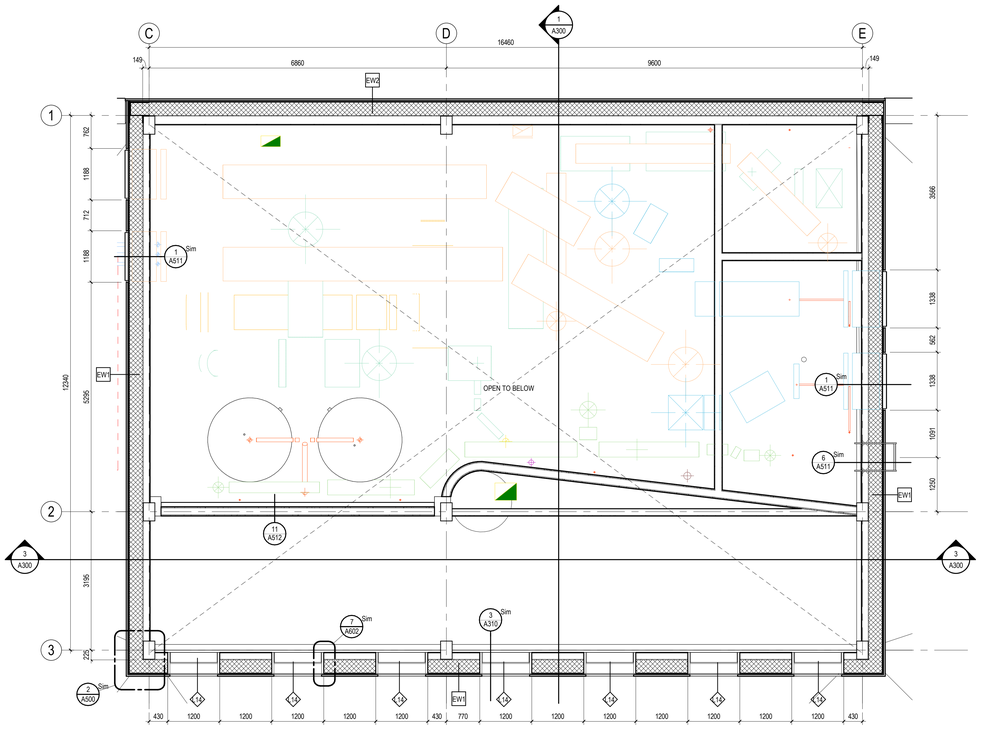
NOTE: ALL WASHROOM ACCESSORIES TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR



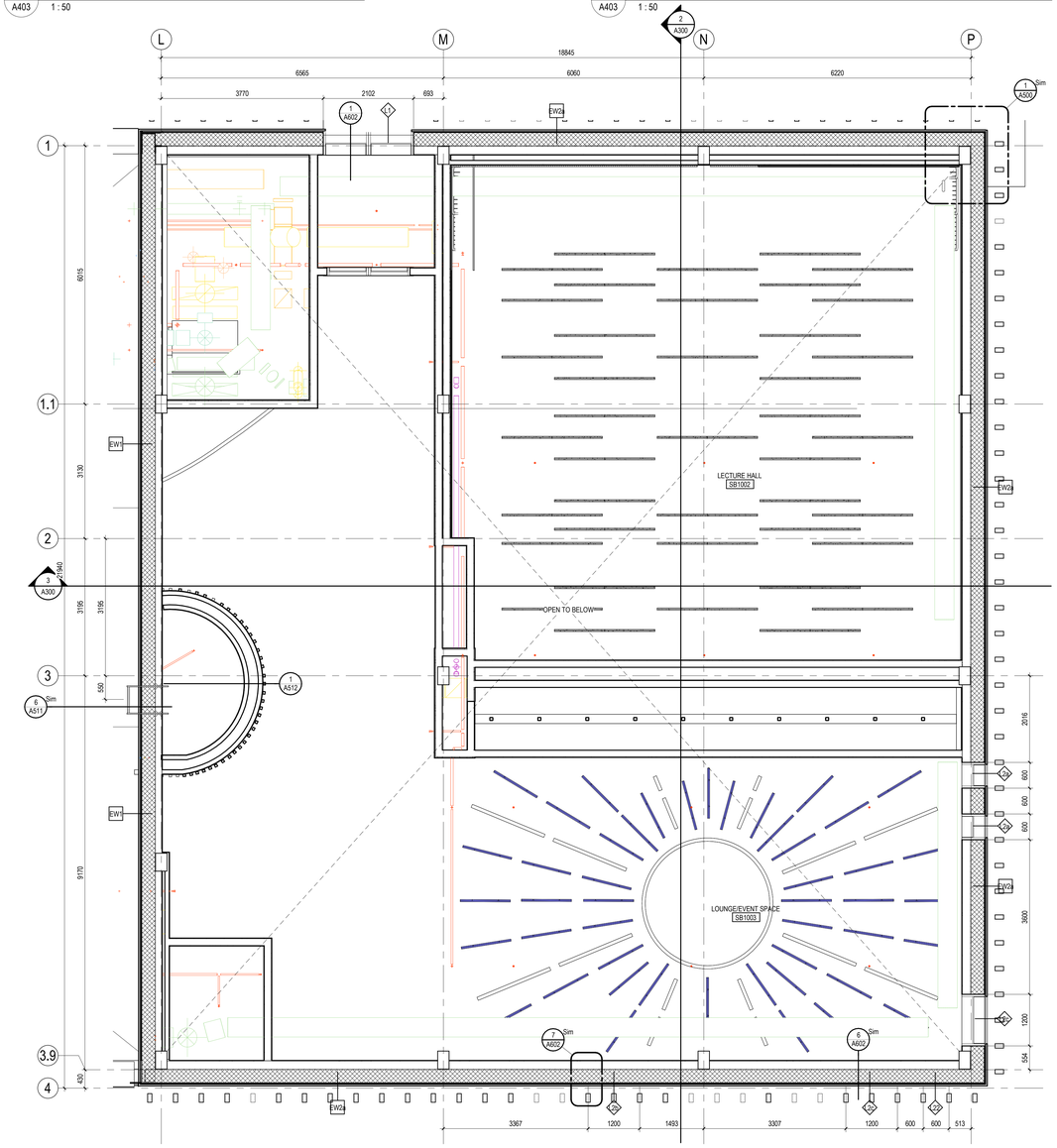
4 A403 FLOOR PLAN - CAFE
1 : 50

KITCHEN EQUIPMENT LEGEND

1	MOBILE HEATED CART
2	SS COUNTER C/W HAND SINK
3	FAUCET
4	SOAP & TOWEL DISPENSERS
5	COUNTERTOP OVEN
6	THREE COM. WASH SINK
7	FAUCET
8	WALL MOUNT WIRE STORAGE SHELVING
9	N/A
10	N/A
11	SS WALL CLADDING
12	REFRIGERATED DISPLAY CASE
13	COUNTER
14	HEATED DISPLAY CASE
15	COUNTERTOP WARMER
16	POS TERMINAL
17	REFRIGERATED DISPLAY CASE
18	ESPRESSO / CAPPUCCINO MACHINE
19	N/A
20	N/A
21	DROP IN SINK C/W FAUCET
22	UNDERCOUNTER COOLER
23	COFFEE BREWER
24	WATER FILTER



5 A403 ENLARGED FLOOR PLANS - UPPER MECHANICAL RM
1 : 50



6 A403 ENLARGED FLOOR PLANS - UPPER LECTURE HALL
1 : 50

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Client/Project Logo

Yukon University

Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/11/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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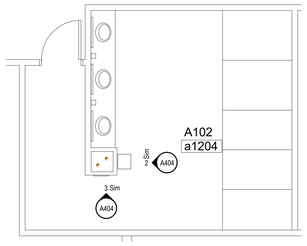
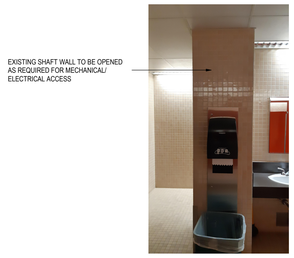
Client/Project
Yukon University
Polaris Project

Title
ENLARGED FLOOR PLANS - WASHROOMS AND UPPER ROOMS

Project No. 144214760
Scale 1 : 50
Revision 5
Drawing No. **A403**

ORIGINAL SHEET - ISO A2

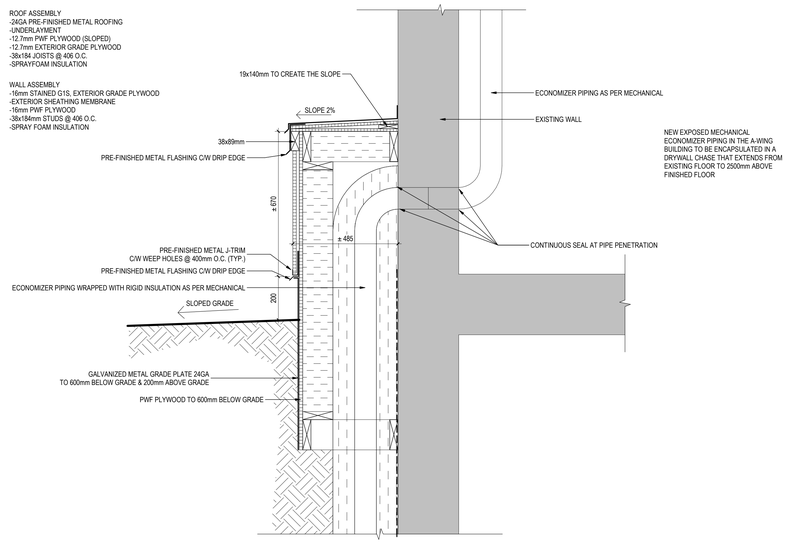




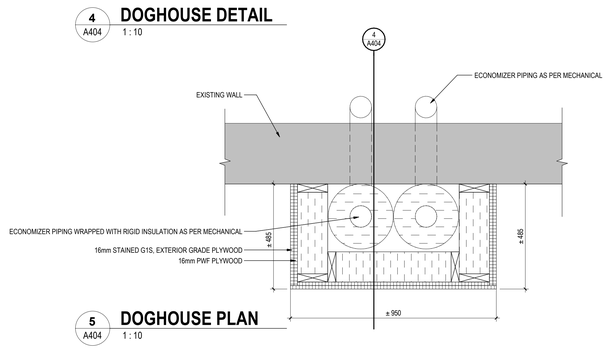
1 A404 **A-WING EXISTING WASHROOM**
1 : 50

2 A404 **A-WING - PHOTO 1**
1 : 100

3 A404 **A-WING - PHOTO 2**
1 : 100



4 A404 **DOGHOUSE DETAIL**
1 : 10



5 A404 **DOGHOUSE PLAN**
1 : 10

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Notes

4	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
3	ISSUED FOR TENDER	GV	CO	2024.05.06
2	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
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Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/31/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
ENLARGED FLOOR PLANS AT EXISTING A-WING

Project No. 144214760
Scale As indicated
Revision 4
Drawing No. **A404**

ORIGINAL SHEET - ISO A0

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACT-1 — ACT-1 - ACOUSTIC CEILING TILE - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-2 — ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE) - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-3 — ACT-3 - WOOD SLAT - 300mm WOOD SLAT - SUSPENSION SYSTEM
- GWB-1 — GWB-1 - GYPSUM BOARD CEILING - 16mm GYPSUM BOARD - SUSPENSION SYSTEM
- EXP U/S — EXP - EXPOSED STRUCTURE - PAINTED STEEL DECK - PAINTED STRUCTURE
- EXP-W U/S — EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE - PAINTED STEEL DECK - PAINTED STRUCTURE - INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACP-1-4 — ACP-1-4 - ACOUSTIC CEILING PANEL - 1168mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-5 — ACP-5 - ACOUSTIC CEILING PANEL - 1220mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-6 — ACP-6 - ACOUSTIC CEILING PANEL - WIDTH VARIES x 190mm H ACOUSTIC CURVED BLADE - SUSPENDED SYSTEM - 3965 AFF FROM LEVEL 1
- WD-1 — WD-1 - WOOD CEILING - 16mm PLYWOOD W/ PL-1 - SUSPENSION SYSTEM

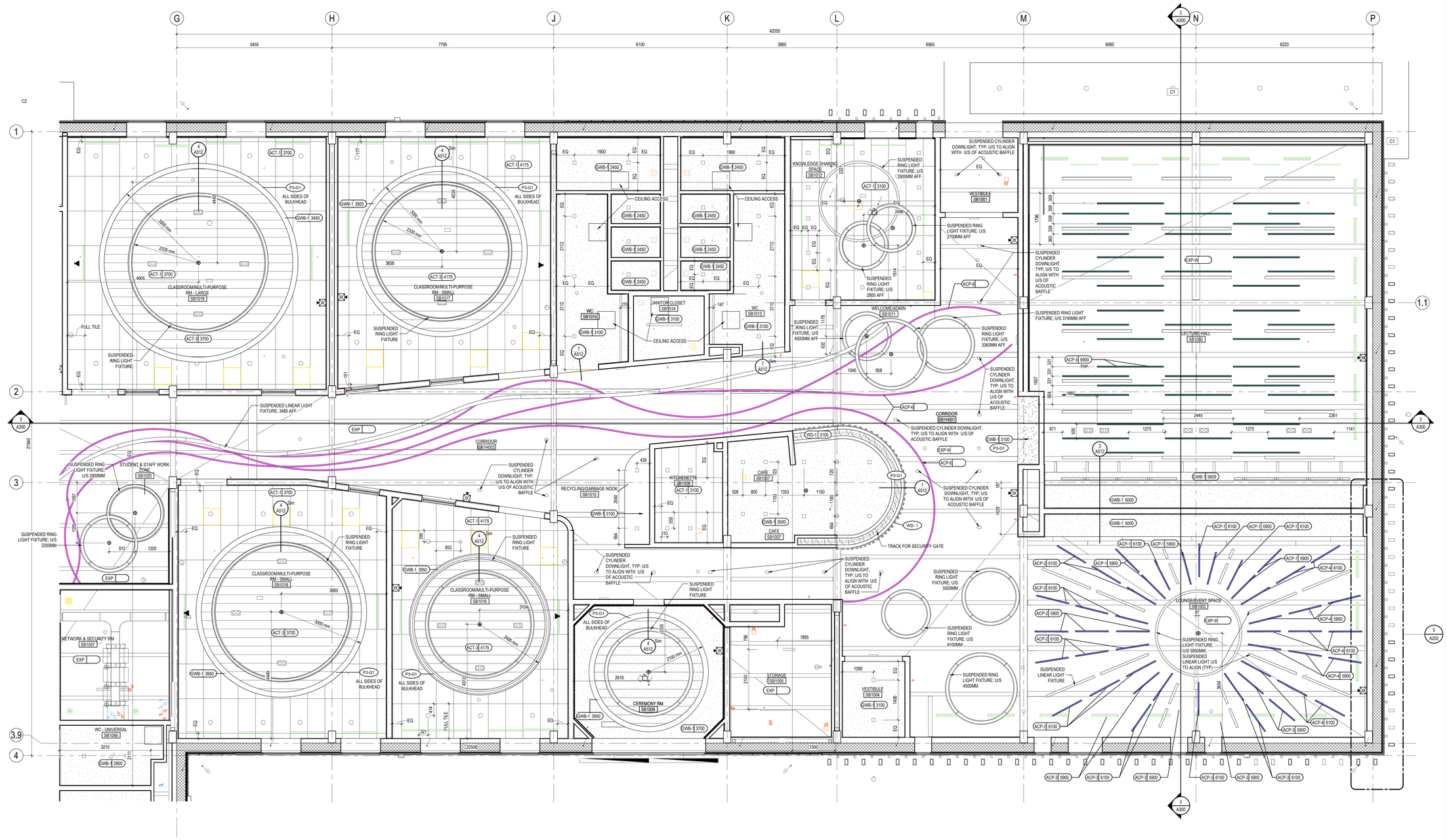
REFLECTED CEILING PLAN LEGEND

- RECESSED LUMINAIRE
- EMERGENCY RECESSED LUMINAIRE
- SURFACE MOUNTED / SUSPENDED LUMINAIRE
- EMERGENCY SURFACE MOUNTED / SUSPENDED LUMINAIRE
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED / SUSPENDED PENDANT LIGHT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED EMERGENCY LUMINAIRE
- WALL MOUNTED EMERGENCY LIGHTING
- CEILING MOUNTED EMERGENCY LIGHTING
- RECESSED POT LIGHT
- MECHANICAL DIFFUSER
- EXHAUST FAN
- RETURN AIR GRILLE

CEILING FINISH NOTES

1. DRYWALL CONTRACTOR TO ALLOW FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN CEILING.
2. ALL MISCELLANEOUS METALS, TRIMS AND ACCESS PANELS ON CEILINGS ETC., TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE, UNLESS NOTED OTHERWISE.
3. PAINT ALL HORIZONTAL AND VERTICAL BULKHEAD FACES TO MATCH FINISH AS NOTED.
4. ALL EXPOSED STRUCTURAL METAL DECKING TO BE PAINTED P1-G1, UNLESS NOTED OTHERWISE.

TRUE NORTH



1 A410 **REFLECTED CEILING PLAN - ZONE 1**
1 : 50

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23

Issued & Revision

File Name: N/A	Author	Designer	Checker	01/13/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
ENLARGED RCP - ZONE 1

Project No. 144214760
Scale As indicated
Revision 5
Drawing No. **A410**

ORIGINAL SHEET - ISO A0

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACT-1 — ACT-1 - ACOUSTIC CEILING TILE - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-2 — ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE) - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-3 — ACT-3 - WOOD SLAT - 300mm WOOD SLAT - SUSPENSION SYSTEM
- GWB-1 — GWB-1 - GYPSUM BOARD CEILING - 16mm GYPSUM BOARD - SUSPENSION SYSTEM
- EXP | U/S — EXP - EXPOSED STRUCTURE - PAINTED STEEL DECK - PAINTED STRUCTURE
- EXP-W | U/S — EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE - PAINTED STEEL DECK - PAINTED STRUCTURE - INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACP-1-4 — ACP-1-4 - ACOUSTIC CEILING PANEL - 1168mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-5 — ACP-5 - ACOUSTIC CEILING PANEL - 1220mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-6 — ACP-6 - ACOUSTIC CEILING PANEL - WIDTH VARIES x 190mm H ACOUSTIC CURVED BLADE - SUSPENDED SYSTEM - 3965 AFF FROM LEVEL 1
- WD-1 — WD-1 - WOOD CEILING - 16mm PLYWOOD W/ PL-1 - SUSPENSION SYSTEM

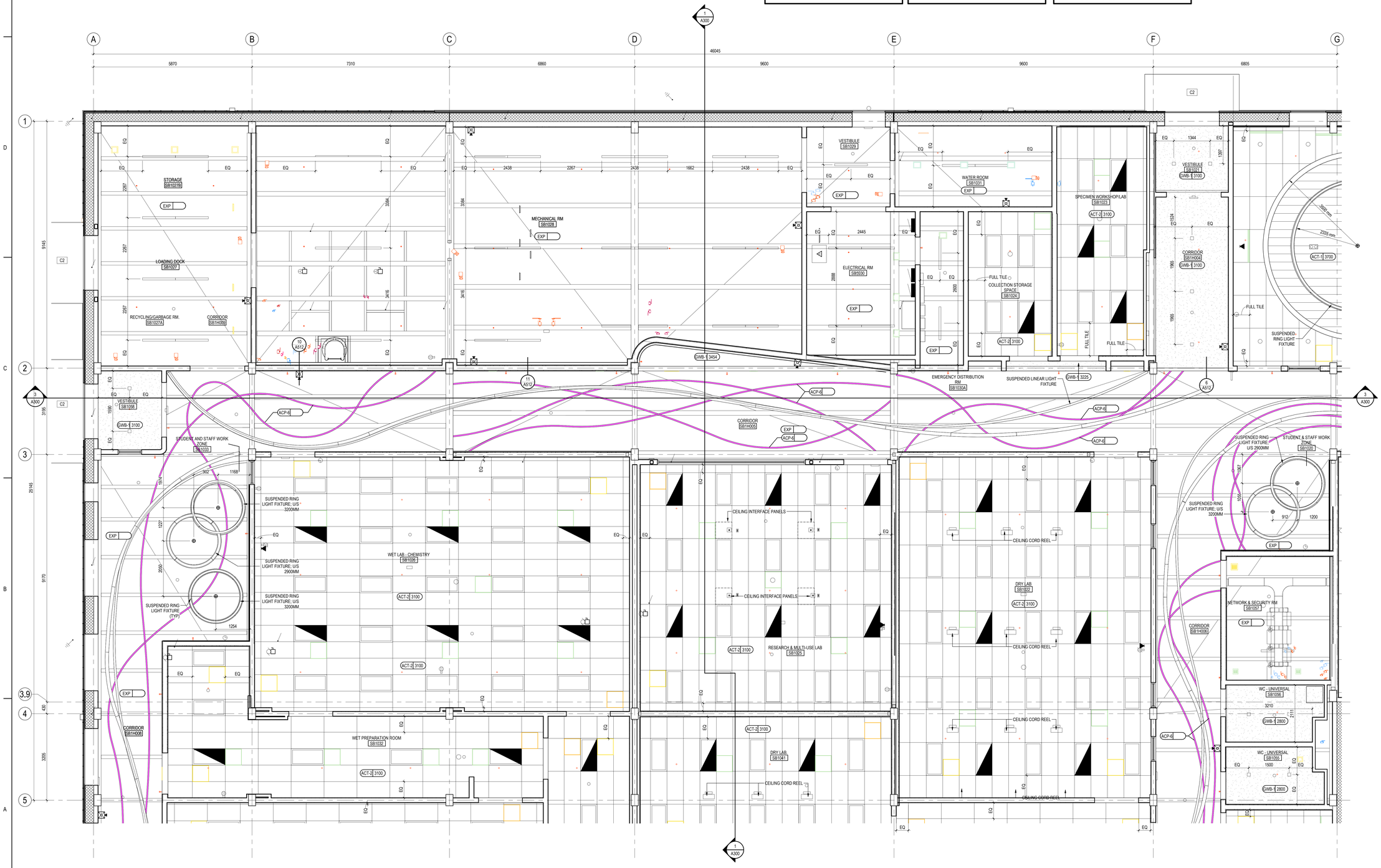
REFLECTED CEILING PLAN LEGEND

- RECESSED LUMINAIRE
- EMERGENCY RECESSED LUMINAIRE
- SURFACE MOUNTED / SUSPENDED LUMINAIRE
- EMERGENCY SURFACE MOUNTED / SUSPENDED LUMINAIRE
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED / SUSPENDED PENDANT LIGHT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED EMERGENCY LUMINAIRE
- WALL MOUNTED EMERGENCY LIGHTING
- CEILING MOUNTED EMERGENCY LIGHTING
- RECESSED POT LIGHT
- MECHANICAL DIFFUSER
- EXHAUST FAN
- RETURN AIR GRILLE

CEILING FINISH NOTES

1. DRYWALL CONTRACTOR TO ALLOW FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN CEILING.
2. ALL MISCELLANEOUS METALS, TRIMS AND ACCESS PANELS ON CEILINGS ETC., TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE, UNLESS NOTED OTHERWISE.
3. PAINT ALL HORIZONTAL AND VERTICAL BULKHEAD FACES TO MATCH FINISH AS NOTED.
4. ALL EXPOSED STRUCTURAL METAL DECKING TO BE PAINTED P1-G1, UNLESS NOTED OTHERWISE.

TRUE NORTH



1 A411 REFLECTED CEILING PLAN - ZONE 2

1 : 50

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/13/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
ENLARGED RCP - ZONE 2

Project No. 144214760

Scale As indicated

Revision 5

Drawing No. **A411**

ORIGINAL SHEET - ISO A2

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

ACT-1	ACT-1 - ACOUSTIC CEILING TILE - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
ACT-2	ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE) - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
ACT-3	ACT-3 - WOOD SLAT - 300mm WOOD SLAT - SUSPENSION SYSTEM
GWB-1	GWB-1 - GYPSUM BOARD CEILING - 16mm GYPSUM BOARD - SUSPENSION SYSTEM
EXP U/S	EXP - EXPOSED STRUCTURE - PAINTED STEEL DECK - PAINTED STRUCTURE
EXP-W U/S	EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE - PAINTED STEEL DECK - PAINTED STRUCTURE - INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

ACP-1-4	ACP-1-4 - ACOUSTIC CEILING PANEL - 1168mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
ACP-5	ACP-5 - ACOUSTIC CEILING PANEL - 1220mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
ACP-6	ACP-6 - ACOUSTIC CEILING PANEL - WIDTH VARIES x 190mm H ACOUSTIC CURVED BLADE - SUSPENDED SYSTEM - 3965 AFF FROM LEVEL 1
WD-1	WD-1 - WOOD CEILING - 16mm PLYWOOD W/ PL-1 - SUSPENSION SYSTEM

REFLECTED CEILING PLAN LEGEND

- RECESSED LUMINAIRE
- EMERGENCY RECESSED LUMINAIRE
- SURFACE MOUNTED / SUSPENDED LUMINAIRE
- EMERGENCY SURFACE MOUNTED / SUSPENDED LUMINAIRE
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED / SUSPENDED PENDANT LIGHT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED EMERGENCY LUMINAIRE
- WALL MOUNTED EMERGENCY LIGHTING
- CEILING MOUNTED EMERGENCY LIGHTING
- RECESSED POT LIGHT
- MECHANICAL DIFFUSER
- EXHAUST FAN
- RETURN AIR GRILLE

CEILING FINISH NOTES

1. DRYWALL CONTRACTOR TO ALLOW FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN CEILING.
2. ALL MISCELLANEOUS METALS, TRIMS AND ACCESS PANELS ON CEILINGS ETC., TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE, UNLESS NOTED OTHERWISE.
3. PAINT ALL HORIZONTAL AND VERTICAL BULKHEAD FACES TO MATCH FINISH AS NOTED.
4. ALL EXPOSED STRUCTURAL METAL DECKING TO BE PAINTED P1-G1, UNLESS NOTED OTHERWISE.

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1 A412 **REFLECTED CEILING PLAN - ZONE 3**
1 : 50

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/13/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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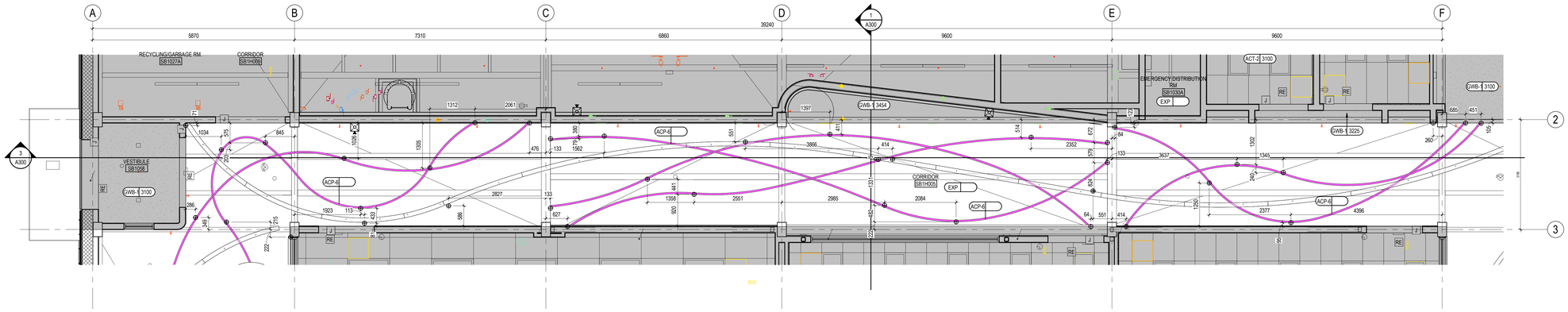
Client/Project
Yukon University
Polaris Project

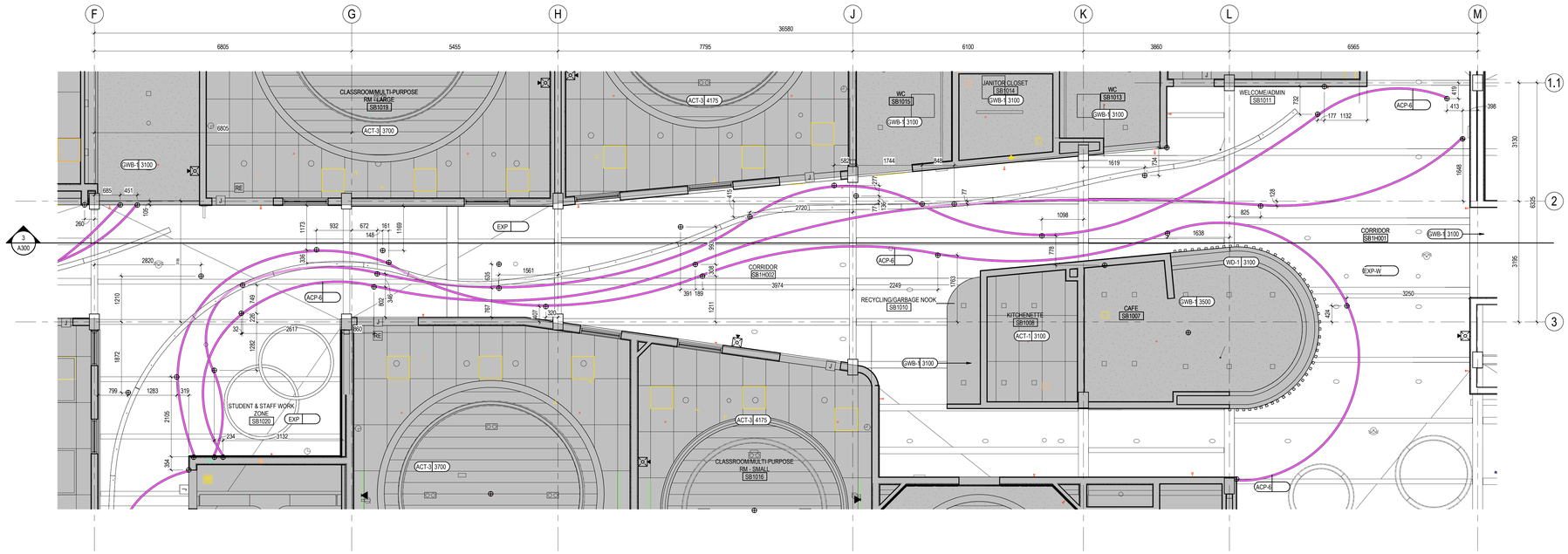
Title
ENLARGED RCP - ZONE 3

Project No. 144214760
Scale As indicated
Revision 5
Drawing No. **A412**

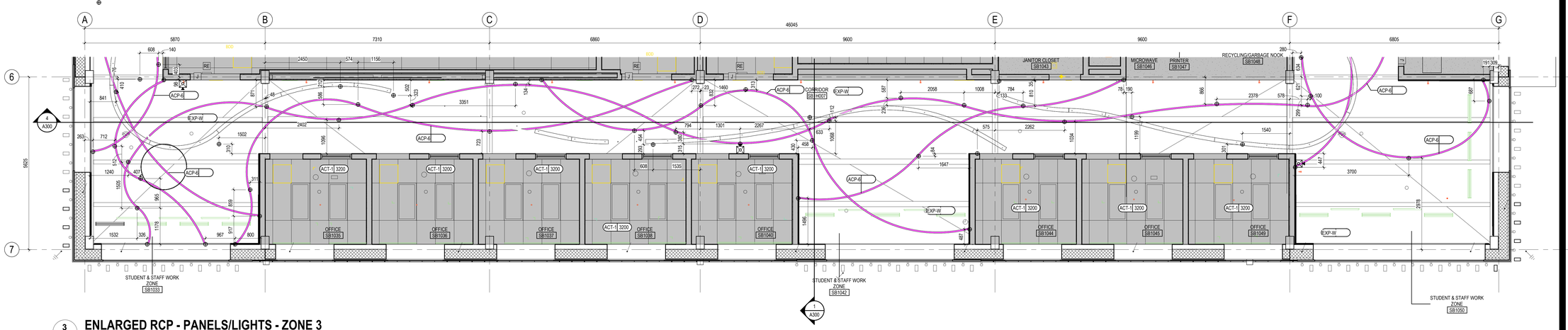
ORIGINAL SHEET - ISO A2



1 ENLARGED RCP - PANELS/LIGHTS - ZONE 2
A413 1 : 50



2 ENLARGED RCP - PANELS/LIGHTS - ZONE 1
A413 1 : 50



3 ENLARGED RCP - PANELS/LIGHTS - ZONE 3
A413 1 : 50

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Client/Project Logo

Yukon University

Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
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Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/19/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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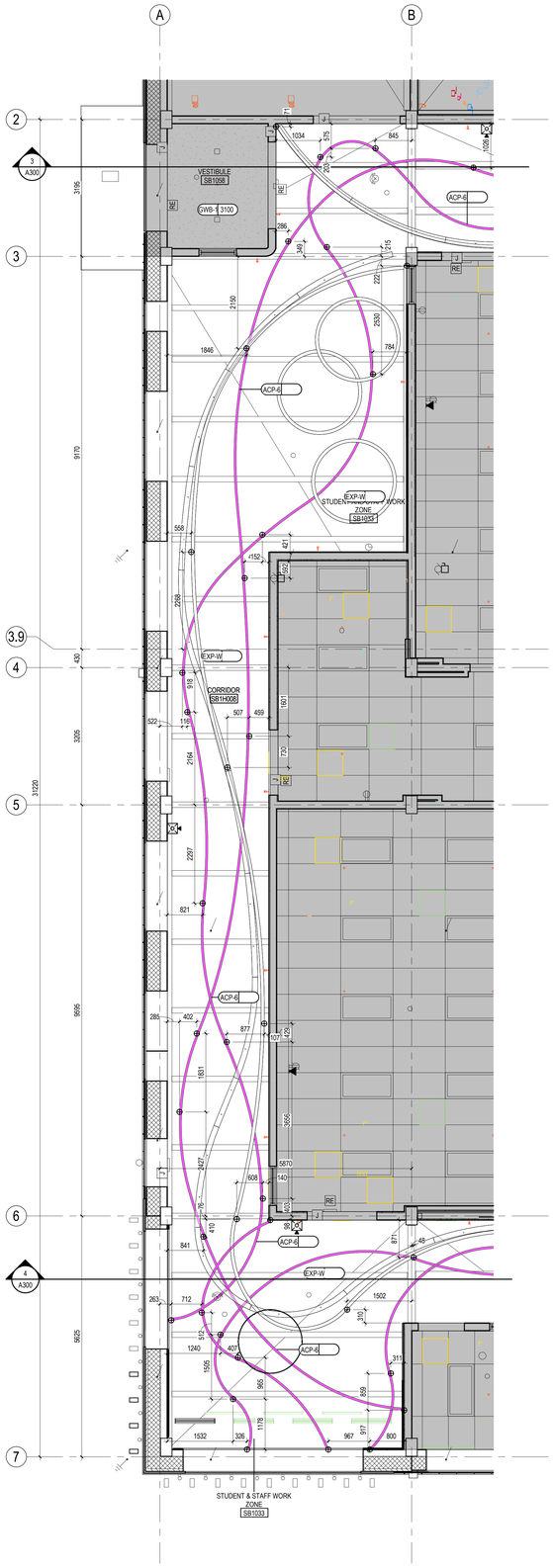
Client/Project
Yukon University
Polaris Project

Title
ENLARGED RCP - PANELS/LIGHTING

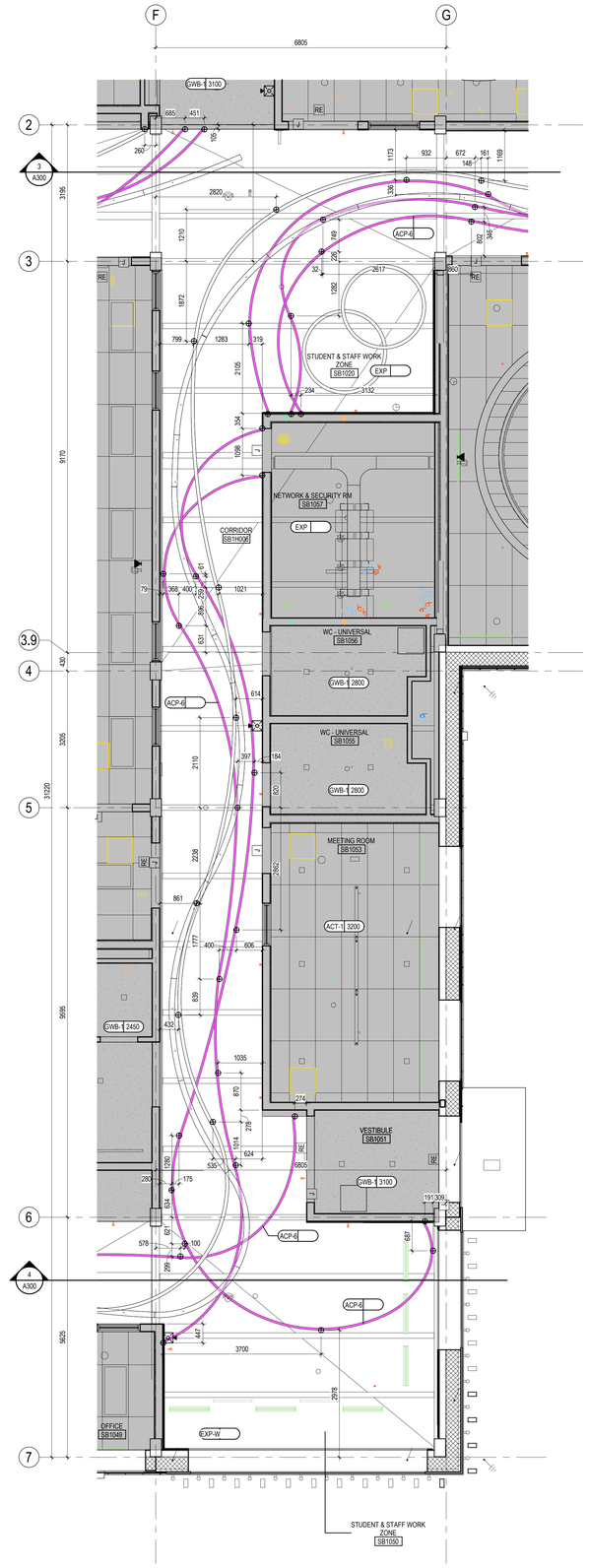
Project No. 144214760
Scale 1 : 50
Revision 5
Drawing No. **A413**

ORIGINAL SHEET - ISO A0



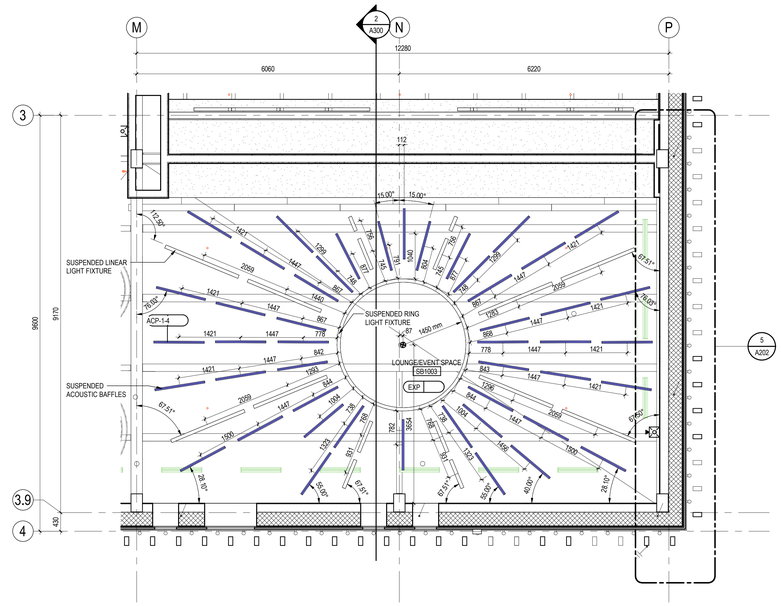
1 A414 ENLARGED RCP - PANELS/LIGHTS - ZONE 2 & 3

1 : 50



2 A414 ENLARGED RCP - PANELS/LIGHTS - ZONE 1 & 3

1 : 50



3 A414 ENLARGED RCP - PANELS/LIGHTS - LOUNGE/EVENT SPACE

1 : 50

CEILING FINISH NOTES

1. DRYWALL CONTRACTOR TO ALLOW FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN CEILING.
2. ALL MISCELLANEOUS METALS, TRIMS AND ACCESS PANELS ON CEILINGS ETC., TO BE PAINTED TO MATCH ADJACENT CEILING SURFACE, UNLESS NOTED OTHERWISE.
3. PAINT ALL HORIZONTAL AND VERTICAL BULKHEAD FACES TO MATCH FINISH AS NOTED.
4. ALL EXPOSED STRUCTURAL METAL DECKING TO BE PAINTED P1-G1, UNLESS NOTED OTHERWISE.

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACT-1 — ACT-1 - ACOUSTIC CEILING TILE - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-2 — ACT-2 - ACOUSTIC CEILING TILE (LAB TYPE) - 610mm x 1220mm ACOUSTIC LAY-IN TILE - T-BAR SUSPENDED SYSTEM
- ACT-3 — ACT-3 - WOOD SLAT - 300mm WOOD SLAT - SUSPENSION SYSTEM
- GWB-1 — GWB-1 - GYPSUM BOARD CEILING - 16mm GYPSUM BOARD - SUSPENSION SYSTEM
- EXP — US — EXP - EXPOSED STRUCTURE - PAINTED STEEL DECK - PAINTED STRUCTURE
- EXP-W — US — EXP-W - EXPOSED STRUCTURE W/ ISOLATED SUSPENDED ACOUSTIC CEILING TILE - PAINTED STEEL DECK - PAINTED STRUCTURE - INDIVIDUAL ACOUSTIC TILE SUSPENDED @ VARYING ANGLES

CEILING TYPES

CEILING TYPE — ACT 3000 — CEILING HEIGHT

- ACP-1-4 — ACP-1-4 - ACOUSTIC CEILING PANEL - 1168mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-5 — ACP-5 - ACOUSTIC CEILING PANEL - 1220mm x 254mm ACOUSTIC BLADE - SUSPENDED SYSTEM
- ACP-6 — ACP-6 - ACOUSTIC CEILING PANEL - WIDTH VARIES x 190mm H ACOUSTIC CURVED BLADE - SUSPENDED SYSTEM - 3965 AFF FROM LEVEL 1
- WD-1 — WD-1 - WOOD CEILING - 16mm PLYWOOD W/ PL-1 - SUSPENSION SYSTEM

REFLECTED CEILING PLAN LEGEND

- RECESSED LUMINAIRE
- EMERGENCY RECESSED LUMINAIRE
- SURFACE MOUNTED / SUSPENDED LUMINAIRE
- EMERGENCY SURFACE MOUNTED / SUSPENDED LUMINAIRE
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED / SUSPENDED PENDANT LIGHT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED EMERGENCY LUMINAIRE
- WALL MOUNTED EMERGENCY LIGHTING
- CEILING MOUNTED EMERGENCY LIGHTING
- RECESSED POT LIGHT
- MECHANICAL DIFFUSER
- EXHAUST FAN
- RETURN AIR GRILLE

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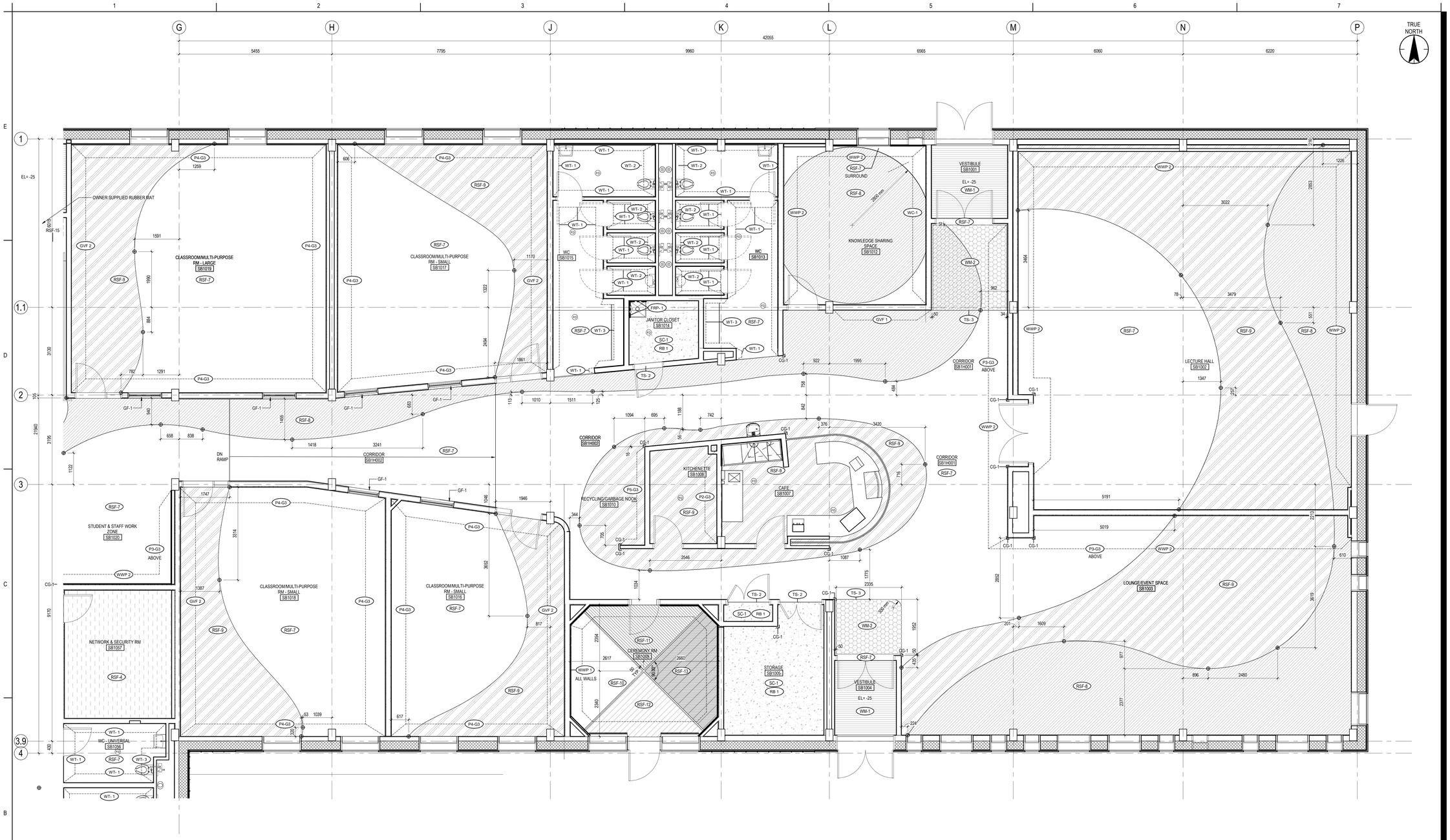
Client/Project
Yukon University
Polaris Project

Title
ENLARGED RCP - PANELS/LIGHTING

Project No. 144214760
Scale As indicated
Revision 5
Drawing No. **A414**

ORIGINAL SHEET - ISO A2



1 A420 **FINISHES PLAN - ENLARGED ZONE 1**

1 : 50

FLOOR FINISH NOTES

1. GENERAL CONTRACTOR TO ENSURE FLOOR IS SMOOTH AND LEVEL FOR NEW FINISHES PRIOR TO INSTALLATION.
2. FLOORING CONTRACTOR TO COORDINATE INSTALLATION WITH MILLWORK INSTALLER AS REQUIRED.
3. FLOORING CONTRACTOR TO FEATHER CONCRETE OVER A 1200mm (4'-0") AREA TO ENSURE A SMOOTH, LEVEL TRANSITION BETWEEN FLOORING FINISHES.
4. ALL FLOOR FINISHES TO BE FLUSH WITH COLUMN, BUILDING PERIMETER AND INTERIOR WALLS.
5. FLOORING CONTRACTOR TO SUPPLY SEAMING DIAGRAM FOR DESIGN CONSULTANT TO REVIEW PRIOR TO INSTALLATION. ALL SEAMS WHEREVER POSSIBLE SHOULD FALL CLOSER TO WALLS THAN HIGH TRAFFIC AREAS.
6. ALL FLOOR FINISHES SHALL EXTEND TO FACE OF WALL. WHERE EQUIPMENT ON FLOOR CAN BE REMOVED, FLOOR FINISH TO EXTEND INTO RECESS OR CAVITY TO FACE OF WALL. ALL FLOORING TO EXTEND INTO CLOSETS.
7. FLOOR FINISHES ARE TO TERMINATE CENTERED UNDER DOORS WHEN DOORS ARE IN FULL CLOSED POSITION.
8. FINISHES TO EXTEND UNDER CONVECTOR CABINET AND COVE UP PERIMETER WALL AS HIGH AS POSSIBLE, U.N.O.
9. CABLE WELDS BETWEEN COLOUR TRANSITIONS OF RESILIENT FLOORING TO BE COLOUR AS SPECIFIED.
10. CABLE WELDS WITHIN SAME COLOUR OF RESILIENT FLOORING TO MATCH RESILIENT FLOORING.
11. CABLE WELDS BETWEEN COLOUR TRANSITIONS OF RESILIENT FLOORING TO BE DEFAULT OF FIELD FLOOR COLOUR, U.N.O.
12. ALL BASEBOARDS TO BE RUBBER BASE ON ALL BASE BUILDING CONSTRUCTION WITH EXCEPTION OF WASHROOMS OR OTHER WITH INTEGRAL BASE.
13. ALL FLOORS MUST HAVE CONTROL JOINTS ALIGNING WITH BASE BUILDING FLOOR JOINTS.
14. FEATHER FLOOR TO ENSURE SMOOTH TRANSITION BETWEEN DISSIMILAR FLOOR FINISHES. INSTALL TRANSITION STRIPS AS NOTED. COLOUR TO BE APPROVED BY CONSULTANT.
15. WHERE SHEET GOODS ARE BEING INSTALLED, SUBFLOOR TO BE WELL PREPARED & CURED SO SUBFLOOR WILL NOT TELEGRAPH THROUGH.
16. PLACEMENT OF ACCENT TILES IS SHOWN FOR DESIGN INTENT AND CONTRACTOR HAS THE LIBERTY TO RELOCATE ACCENT TILES DUE TO THRESHOLD PLACEMENT, EXPANSION JOINTS OR LOCKERPLACEMENT AS LONG AS THE OVERALL INTENT IS MAINTAINED. REVIEW WITH CONSULTANT PRIOR TO CHANGING.

WALL FINISH NOTES

1. FINISHES TO CONTINUE TO NEAREST WALL END OR CORNER, UNLESS NOTED OTHERWISE
2. REFER TO DOOR AND FRAME SCHEDULE LOCATED ON DRAWINGS AND IN SPECIFICATIONS FOR DOOR AND FRAME FINISHES
3. ALL ELECTRICAL PANEL DOORS ETC. TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
4. ALL MISCELLANEOUS METALS, TRIMS, ETC. ON WALLS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
5. ALL FIRE EXTINGUISHERS AND ELECTRICAL CABINETS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
6. ALL WALL REVEALS PAINTED TO MATCH THE WALL THEY ARE ON
7. ALL WALLS TO BE PAINTED P1-G3, U.N.O. FOR ACCENT PAINT LOCATION REFER TO DRAWINGS.
8. REFER TO ELEVATIONS & DETAILS FOR SPECIFIC LOCATIONS OF FINISHES
9. PAINT INDICATIONS FOR PERIMETER WALLS INCLUDE BULKHEAD AND DRYWALL SILLS, U.N.O.
10. ALL PAINTED PARTITIONS TO HAVE COMPLETE COVERAGE AND RECEIVE A MINIMUM OF 1 PRIMER COAT AND 2 TOP COATS - PREMIUM LATEX OF THE PRODUCT SPECIFIED. DARKER COLOURS TO RECEIVE ADDITIONAL COATS USING SPECIFIED PRODUCTS ONLY AS REQUIRED TO ACHIEVE UNIFORM COLOUR APPEARANCE. SEEK CONSULTANT APPROVAL, FOR USE OF AN ALTERNATE DARK COLOUR PAINT, CONSULTANTS APPROVAL REQUIRED AND ONE COAT OF CLEARCOAT FINISH WILL BE REQUIRED

GENERAL FINISH NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FINISH SPECIFICATIONS, SCHEDULES AND ALL PLANS, ELEVATIONS, DETAILS, ETC.
2. SUBMIT 2 SETS OF SAMPLES (minimum) OF ALL FINISH MATERIALS TO THE CONSULTANT FOR APPROVAL PRIOR TO ORDERING.
3. WHERE COLOUR OR EXTENT OF FINISH IS IN QUESTION, CONTACT CONSULTANT FOR CLARIFICATION PRIOR TO PROCEEDING.
4. ALL MATERIALS LISTED HAVE BEEN SELECTED FOR SPECIFIC COLOUR, TEXTURE, AND PATTERN. NO SUBSTITUTIONS FOR THE SPECIFIED MANUFACTURER SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE CONSULTANT.
5. ASSUME ALL UNFINISHED SURFACES PAINTED.
6. USE THE LARGEST CONTINUOUS PIECE OF MATERIAL, AS PROVIDED BY MANUFACTURER, TO COMPLETE INSTALLATION OF EACH FINISH. ALL FINISHES AND MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS AND ENSURE COMPATIBILITY WITH OWNERS MAINTENANCE AND CLEANING PRACTICES AND PROCEDURES.
7. PAINT ALL INDUCTION UNITS, PERIMETER WALL AND HEAT INDUCTIONS UNITS PT-1, U.N.O.
8. FOR PAINTING GLOSS LEVELS FOR VARIOUS SUBSTRATE TYPES, REFER TO SPECIFICATIONS SECTION 09 91 00 - PAINTING.
9. FOR ALL MILLWORK FINISHING, REFER TO DRAWINGS AND MILLWORK SCHEDULES.
10. REFER TO SECTION 09 06 06 SCHEDULE OF FINISHES FOR DETAILS.

FLOORING TRANSITION STRIPS (SEE SPEC)

DIFFERENT FLOORING TYPES AND THICKNESS NOTED BELOW:

TS-1	TERRAZZO 9MM TO RESILIENT 2MM
TS-2	RESILIENT 2MM TO POLISHED CONCRETE
TS-3	TERRAZZO 9MM TO POLISHED CONCRETE
TS-4	TERRAZZO 9MM TO WALK OFF MAT 4.6MM

FINISHES LEGEND

XX-# — FINISHES TAG
FINISH EXTEND
P#-G# — PAINT TAG
P = PAINT NUMBER
G = PAINT GLOSS LEVEL

REFER TO SECTION 090606 FINISHES SCHEDULE FOR DETAILS OF FINISHES

ACT	ACOUSTIC TILE
ACP	ACOUSTIC CEILING PANEL
CG	CORNER GUARD
GF	GLAZING FILM
GVF	GRAPHIC WALL VINYL
FRP	FIBER REINFORCED PLASTIC
RB	RUBBER BASE
P	PAINT
PL	PLASTIC LAMINATE
SF	SOLID SURFACE
SS	STAINLESS STEEL
WP	WALL PROTECTION
WT	WALL TILE
WV	WOOD VENEER
WWP	WOOD WALL PANEL

FLOORING LEGEND

RSF-1 RESILIENT SHEET FLOORING	RSF-10 RESILIENT SHEET FLOORING
RSF-2 RESILIENT SHEET FLOORING	RSF-11 RESILIENT SHEET FLOORING
RSF-3 RESILIENT SHEET FLOORING	RSF-12 RESILIENT SHEET FLOORING
RSF-4 RESILIENT SHEET FLOORING	RSF-13 RESILIENT SHEET FLOORING
RSF-5 RESILIENT SHEET FLOORING	RSF-14 RUBBER TACTILE WARNING
RSF-6 RESILIENT SHEET FLOORING	RSF-15 STAIR TREAD / NOSING
SC-1 SEALED CONCRETE	RSF-8 RESILIENT SHEET FLOORING
RSF-7 RESILIENT SHEET FLOORING	RSF-9 RESILIENT SHEET FLOORING
	WM-1 WALK-OFF MAT - RECESSED
	WM-2 WALK-OFF MAT - SURFACE MOUNT

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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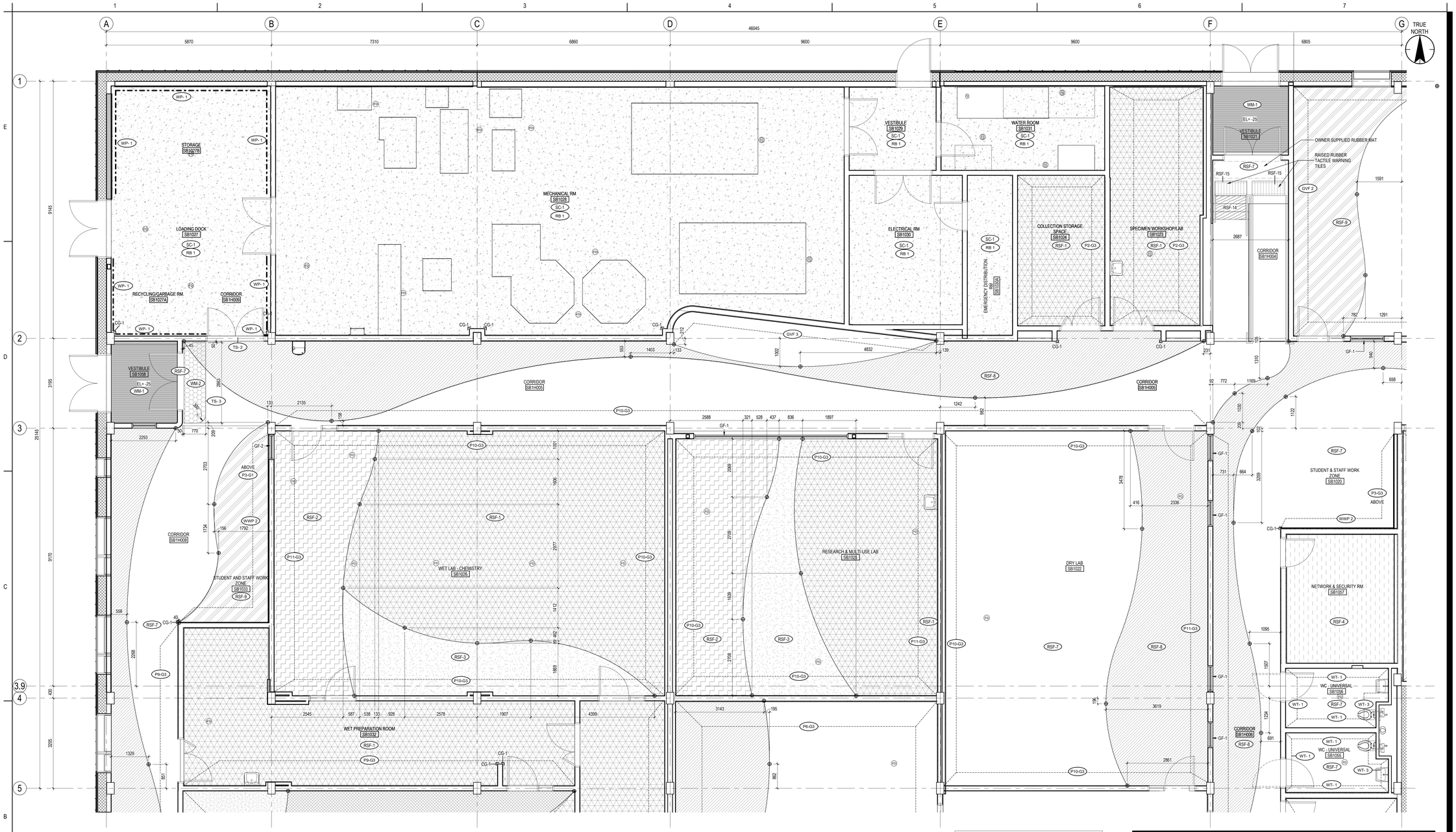
Client/Project
Yukon University
Polaris Project

Title
ENLARGED FINISHES PLAN - ZONE 1

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A420**

ORIGINAL SHEET - ISO A0



1 A421 FINISHES PLAN - ENLARGED ZONE 2

1 : 50

FLOOR FINISH NOTES

1. GENERAL CONTRACTOR TO ENSURE FLOOR IS SMOOTH AND LEVEL FOR NEW FINISHES PRIOR TO INSTALLATION.
2. FLOORING CONTRACTOR TO COORDINATE INSTALLATION WITH MILLWORK INSTALLER AS REQUIRED.
3. FLOORING CONTRACTOR TO FEATHER CONCRETE OVER A 1200mm (4'-0") AREA TO ENSURE A SMOOTH, LEVEL TRANSITION BETWEEN FLOORING FINISHES.
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SC-1 SEALED CONCRETE	RSF-8 RESILIENT SHEET FLOORING
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	WM-1 WALK-OFF MAT - RECESSED
	WM-2 WALK-OFF MAT - SURFACE MOUNT

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202-107 Main Street
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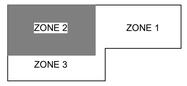
Client/Project Logo

Yukon University

Keyplans



KEYPLAN

Notes

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2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
ENLARGED FINISHES PLAN - ZONE 2

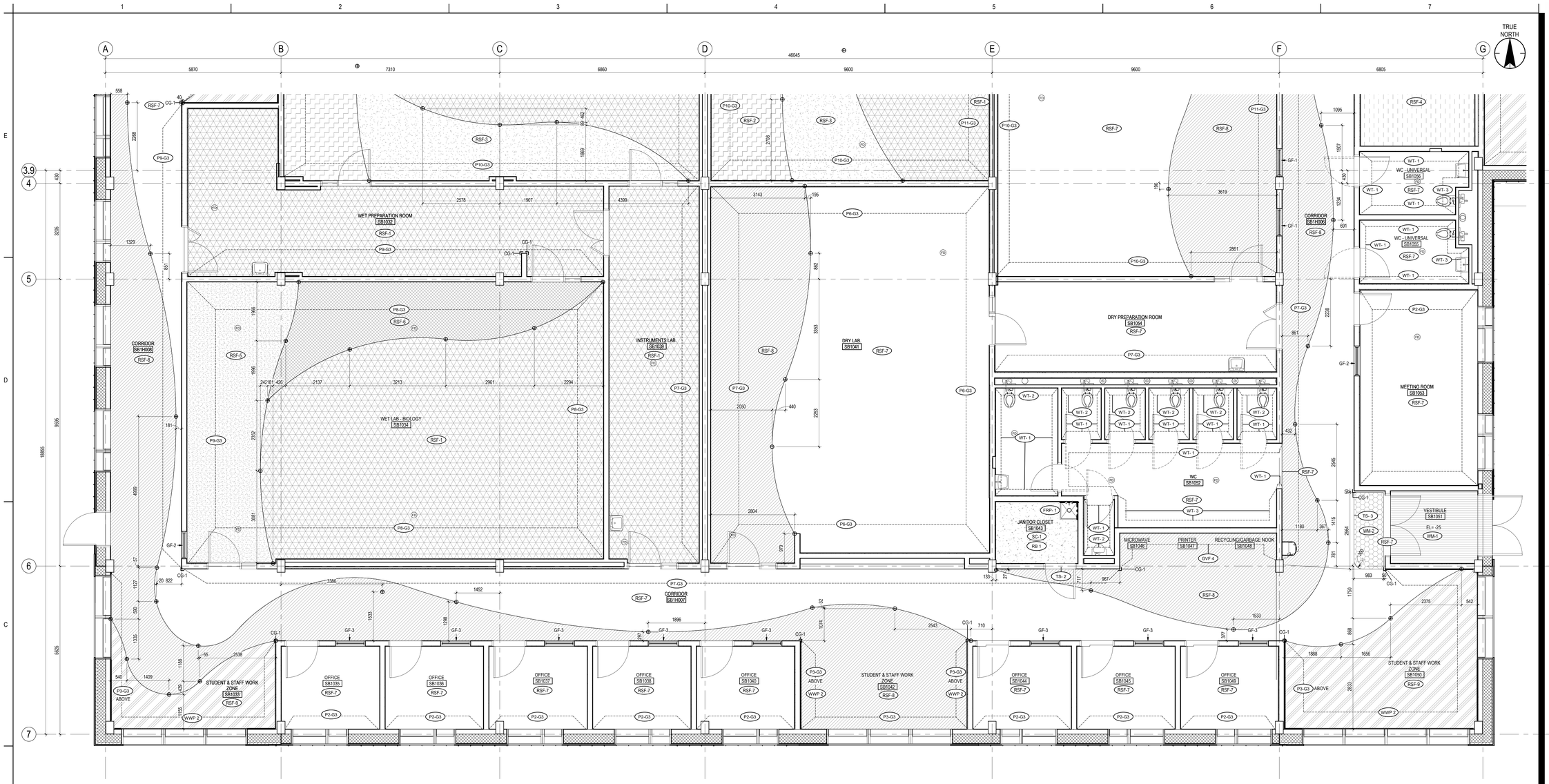
Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **A421**

ORIGINAL SHEET - ISO A0



1 / A422 FINISHES PLAN - ENLARGED ZONE 3

1 : 50

FLOOR FINISH NOTES

1. GENERAL CONTRACTOR TO ENSURE FLOOR IS SMOOTH AND LEVEL FOR NEW FINISHES PRIOR TO INSTALLATION.
2. FLOORING CONTRACTOR TO COORDINATE INSTALLATION WITH MILLWORK INSTALLER AS REQUIRED.
3. FLOORING CONTRACTOR TO FEATHER CONCRETE OVER A 1200mm (4'-0") AREA TO ENSURE A SMOOTH, LEVEL TRANSITION BETWEEN FLOORING FINISHES.
4. ALL FLOOR FINISHES TO BE FLUSH WITH COLUMN, BUILDING PERIMETER AND INTERIOR WALLS.
5. FLOORING CONTRACTOR TO SUPPLY SEAMING DIAGRAM FOR DESIGN CONSULTANT TO REVIEW PRIOR TO INSTALLATION. ALL SEAMS WHEREVER POSSIBLE SHOULD FALL CLOSER TO WALLS THAN HIGH TRAFFIC AREAS.
6. ALL FLOOR FINISHES SHALL EXTEND TO FACE OF WALL WHERE EQUIPMENT ON FLOOR CAN BE REMOVED, FLOOR FINISH TO EXTEND INTO RECESS OR CAVITY TO FACE OF WALL. ALL FLOORING TO EXTEND INTO CLOSETS.
7. FLOOR FINISHES ARE TO TERMINATE CENTERED UNDER DOORS WHEN DOORS ARE IN FULL CLOSED POSITION.
8. FINISHES TO EXTEND UNDER CONVECTOR CABINET AND COVE UP PERIMETER WALL AS HIGH AS POSSIBLE, U.N.O.
9. CABLE WELDS BETWEEN COLOUR TRANSITIONS OF RESILIENT FLOORING TO BE COLOUR AS SPECIFIED.
10. CABLE WELDS WITHIN SAME COLOUR OF RESILIENT FLOORING TO MATCH RESILIENT FLOORING.
11. CABLE WELDS BETWEEN COLOUR TRANSITIONS OF RESILIENT FLOORING TO BE DEFAULT OF FIELD FLOOR COLOUR, U.N.O.
12. ALL BASEBOARDS TO BE RUBBER BASE ON ALL BASE BUILDING CONSTRUCTION WITH EXCEPTION OF WASHROOMS OR OTHER WITH INTEGRAL BASE.
13. ALL FLOORS MUST HAVE CONTROL JOINTS ALIGNING WITH BASE BUILDING FLOOR JOINTS.
14. FEATHER FLOOR TO ENSURE SMOOTH TRANSITION BETWEEN DISSIMILAR FLOOR FINISHES. INSTALL TRANSITION STRIPS AS NOTED. COLOUR TO BE APPROVED BY CONSULTANT.
15. WHERE SHEET GOODS ARE BEING INSTALLED, SUBFLOOR TO BE WELL PREPARED & CURED SO SUBFLOOR WILL NOT TELEGRAPH THROUGH.
16. PLACEMENT OF ACCENT TILES IS SHOWN FOR DESIGN INTENT AND CONTRACTOR HAS THE LIBERTY TO RELOCATE ACCENT TILES DUE TO THRESHOLD PLACEMENT, EXPANSION JOINTS OR LOCKERPLACEMENT AS LONG AS THE OVERALL INTENT IS MAINTAINED. REVIEW WITH CONSULTANT PRIOR TO CHANGING.

WALL FINISH NOTES

1. FINISHES TO CONTINUE TO NEAREST WALL END OR CORNER, UNLESS NOTED OTHERWISE.
2. REFER TO DOOR AND FRAME SCHEDULE LOCATED ON DRAWINGS AND IN SPECIFICATIONS FOR DOOR AND FRAME FINISHES
3. ALL ELECTRICAL PANEL DOORS ETC. TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
4. ALL MISCELLANEOUS METALS, TRIMS, ETC. ON WALLS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
5. ALL FIRE EXTINGUISHERS AND ELECTRICAL CABINETS TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
6. ALL WALL REVEALS PAINTED TO MATCH THE WALL THEY ARE ON
7. ALL WALLS TO BE PAINTED P1-G3, U.N.O. FOR ACCENT PAINT LOCATION REFER TO DRAWINGS.
8. REFER TO ELEVATIONS & DETAILS FOR SPECIFIC LOCATIONS OF FINISHES
9. PAINT INDICATIONS FOR PERIMETER WALLS INCLUDE BULKHEAD AND DRYWALL SILLS, U.N.O.
10. ALL PAINTED PARTITIONS TO HAVE COMPLETE COVERAGE AND RECEIVE A MINIMUM OF 1 PRIMER COAT AND 2 TOP COATS - PREMIUM LATEX OF THE PRODUCT SPECIFIED. DARKER COLOURS TO RECEIVE ADDITIONAL COATS USING SPECIFIED PRODUCTS ONLY AS REQUIRED TO ACHIEVE UNIFORM COLOUR APPEARANCE. SEEK CONSULTANT APPROVAL FOR USE OF AN ALTERNATE DARK COLOUR PAINT. CONSULTANTS APPROVAL REQUIRED AND ONE COAT OF CLEARCOAT FINISH WILL BE REQUIRED

GENERAL FINISH NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FINISH SPECIFICATIONS, SCHEDULES AND ALL PLANS, ELEVATIONS, DETAILS, ETC.
2. SUBMIT 2 SETS OF SAMPLES (minimum) OF ALL FINISH MATERIALS TO THE CONSULTANT FOR APPROVAL PRIOR TO ORDERING.
3. WHERE COLOUR OR EXTENT OF FINISH IS IN QUESTION, CONTACT CONSULTANT FOR CLARIFICATION PRIOR TO PROCEEDING.
4. ALL MATERIALS LISTED HAVE BEEN SELECTED FOR SPECIFIC COLOUR, TEXTURE, AND PATTERN. NO SUBSTITUTIONS FOR THE SPECIFIED MANUFACTURER SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE CONSULTANT.
5. ASSUME ALL UNFINISHED SURFACES PAINTED.
6. USE THE LARGEST CONTINUOUS PIECE OF MATERIAL, AS PROVIDED BY MANUFACTURER, TO COMPLETE INSTALLATION OF EACH FINISH. ALL FINISHES AND MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS AND ENSURE COMPATIBILITY WITH OWNERS MAINTENANCE AND CLEANING PRACTICES AND PROCEDURES.
7. PAINT ALL INDUCTION UNITS, PERIMETER WALL AND HEAT INDUCTIONS UNITS PT-1, U.N.O.
8. FOR PAINTING GLOSS LEVELS FOR VARIOUS SUBSTRATE TYPES, REFER TO SPECIFICATIONS SECTION 09 91 00 - PAINTING.
9. FOR ALL MILLWORK FINISHING, REFER TO DRAWINGS AND MILLWORK SCHEDULES.
10. REFER TO SECTION 09 06 06 SCHEDULE OF FINISHES FOR DETAILS.

FLOORING TRANSITION STRIPS (SEE SPEC)

DIFFERENT FLOORING TYPES AND THICKNESS NOTED BELOW:

TS-1	TERRAZZO 9MM TO RESILIENT 2MM
TS-2	RESILIENT 2MM TO POLISHED CONCRETE
TS-3	TERRAZZO 9MM TO POLISHED CONCRETE
TS-4	TERRAZZO 9MM TO WALK OFF MAT 4.6MM

FINISHES LEGEND

XX-# ← FINISHES TAG
FINISH EXTEND
P#-G# ← PAINT TAG
P = PAINT NUMBER
G = PAINT GLOSS LEVEL

REFER TO SECTION 090606 FINISHES SCHEDULE FOR DETAILS OF FINISHES

ACT	ACOUSTIC TILE
ACP	ACOUSTIC CEILING PANEL
CG	CORNER GUARD
GF	GLAZING FILM
GVF	GRAPHIC WALL VINYL
FRP	FIBER REINFORCED PLASTIC
RB	RUBBER BASE
P	PAINT
PL	PLASTIC LAMINATE
SF	SOLID SURFACE
SS	STAINLESS STEEL
WP	WALL PROTECTION
WT	WALL TILE
WV	WOOD VENEER
WWP	WOOD WALL PANEL

FLOORING LEGEND

RSF-1 RESILIENT SHEET FLOORING	RSF-10 RESILIENT SHEET FLOORING
RSF-2 RESILIENT SHEET FLOORING	RSF-11 RESILIENT SHEET FLOORING
RSF-3 RESILIENT SHEET FLOORING	RSF-12 RESILIENT SHEET FLOORING
RSF-4 RESILIENT SHEET FLOORING	RSF-13 RESILIENT SHEET FLOORING
RSF-5 RESILIENT SHEET FLOORING	RSF-14 RUBBER TACTILE WARNING
RSF-6 RESILIENT SHEET FLOORING	RSF-15 STAIR TREAD / NOSING
SC-1 SEALED CONCRETE	RSF-8 RESILIENT SHEET FLOORING
RSF-7 RESILIENT SHEET FLOORING	RSF-9 RESILIENT SHEET FLOORING
	WM-1 WALK-OFF MAT - RECESSED
	WM-2 WALK-OFF MAT - SURFACE MOUNT

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Keyplans

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project

Yukon University

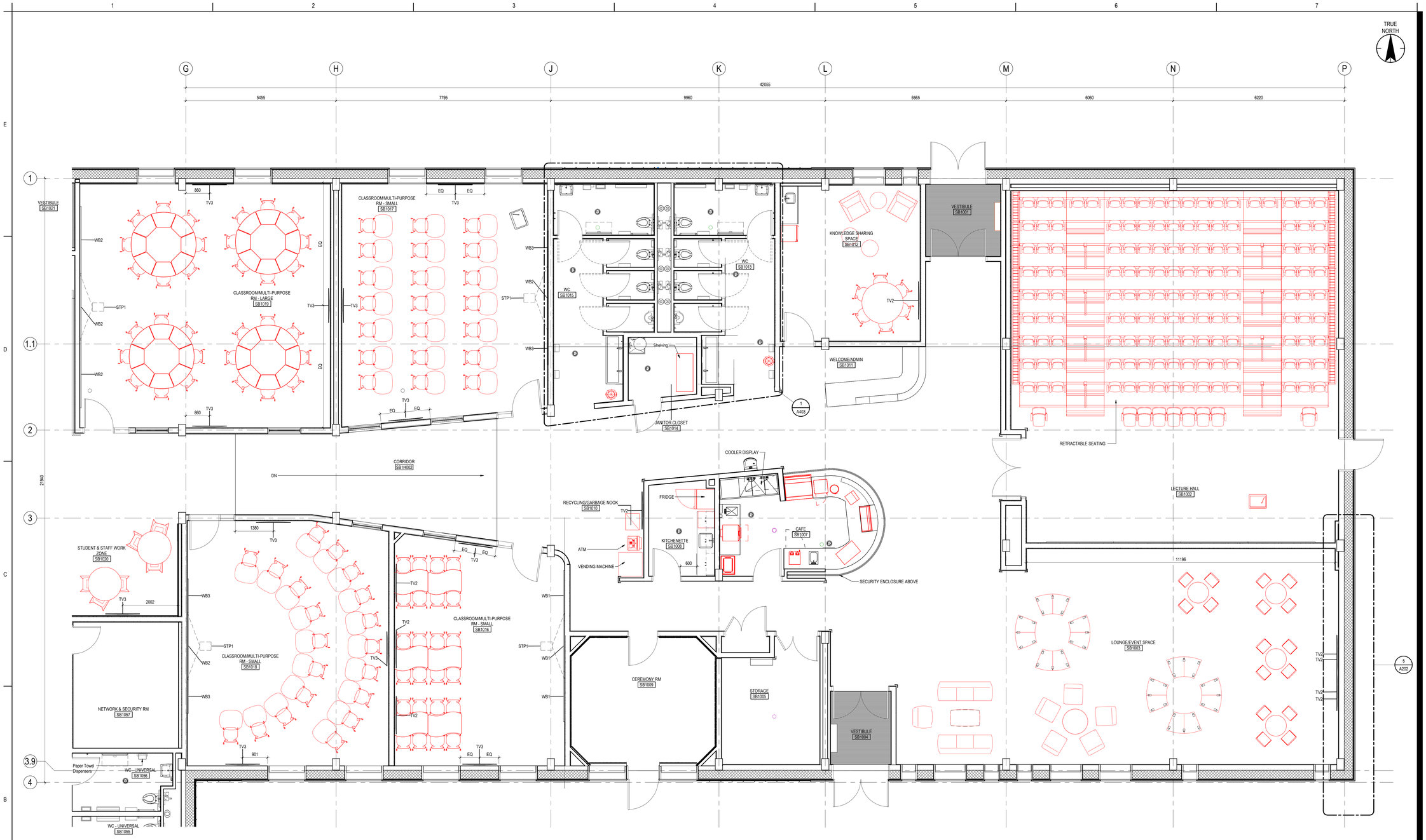
Polaris Project

Title

ENLARGED FINISHES PLAN - ZONE 3

Project No.	Scale
144214760	As indicated
Revision	Drawing No.
6	A422

ORIGINAL SHEET - ISO A0



1 A430 FURNITURE & EQUIPMENT PLAN- ENLARGED ZONE 1

1 : 50

Equipment schedule			
Type Mark	Comments	Contractor Installed	Contractor Supplied
STP1	SHORT THROW PROJECTOR	Yes	Yes
TB1	2440x1220 TACK BOARD	Yes	Yes
TB2	1220x1220 TACK BOARD	Yes	Yes
TV2	60" WALLMOUNTED SMART TV	Yes	Yes
TV3	55" WALLMOUNTED SMART TV	Yes	Yes
WB1	1830x1220 WHITE BOARD	Yes	Yes
WB2	<varies>	Yes	Yes
WB3	1220x1220 WHITE BOARD	Yes	Yes

NOTE: ALL FURNITURE IN RED ON FURNITURE PLAN IS FOR REFERENCE ONLY.

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Keyplans

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	08/25/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title

ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 1

Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **A430**

10/30/2024 11:23:12 AM
ORIGINAL SHEET - ISO A0

1 / A431 FURNITURE & EQUIPMENT PLAN- ENLARGED ZONE 2

1 : 50

Equipment schedule			
Type Mark	Comments	Contractor Installed	Contractor Supplied
STP1	SHORT THROW PROJECTOR	Yes	Yes
TB1	2440x1220 TACK BOARD	Yes	Yes
TB2	1220x1220 TACK BOARD	Yes	Yes
TV2	60" WALLMOUNTED SMART TV	Yes	Yes
TV3	55" WALLMOUNTED SMART TV	Yes	Yes
WB1	1830x1220 WHITE BOARD	Yes	Yes
WB2	<varies>	Yes	Yes
WB3	1220x1220 WHITE BOARD	Yes	Yes

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Keyplans

ZONE 2 | ZONE 1 | ZONE 3

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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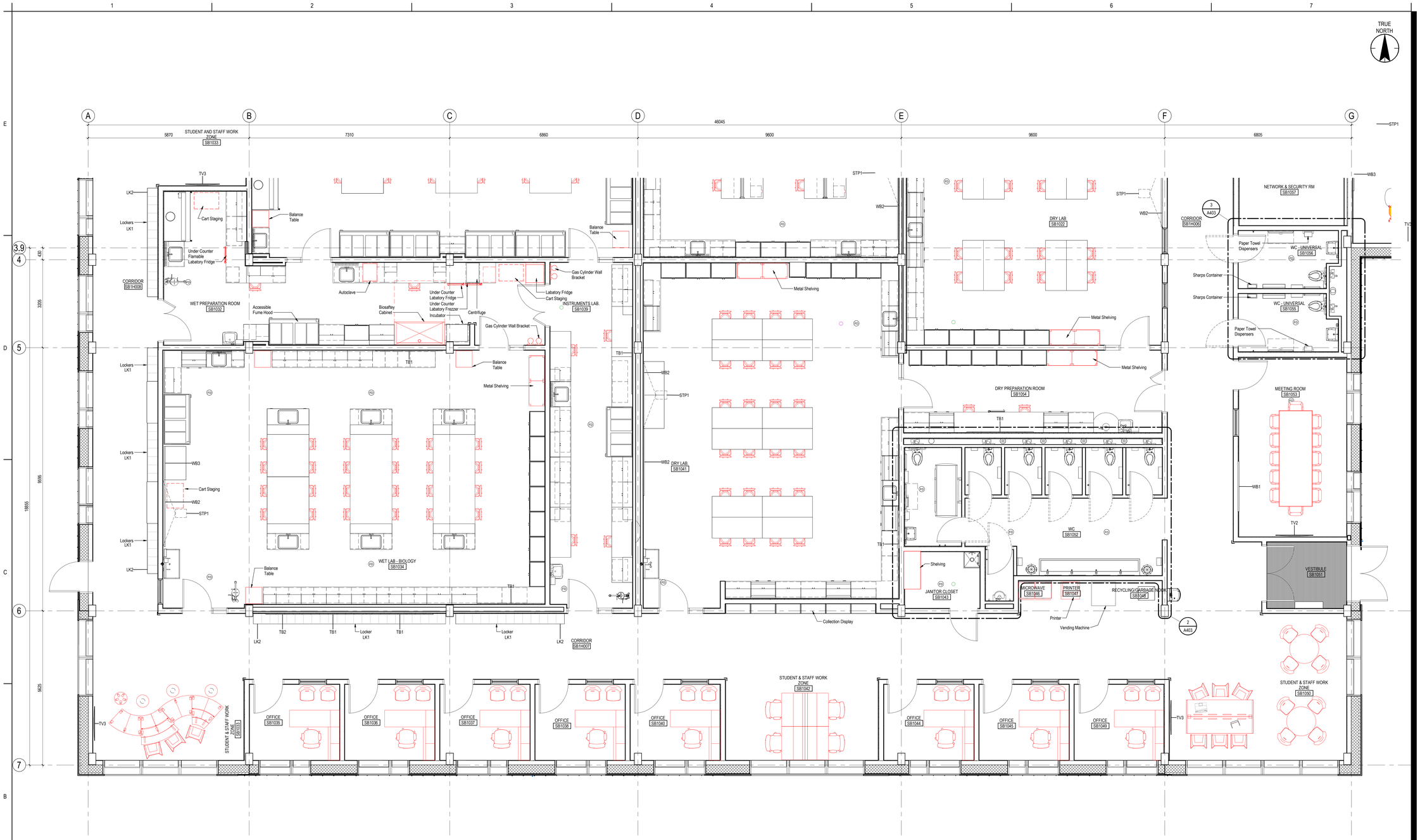
Polaris Project

Title
ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 2

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A431**

ORIGINAL SHEET - ISO A0



1 FURNITURE & EQUIPMENT PLAN- ENLARGED ZONE 3

A432 1 : 50

Equipment schedule			
Type Mark	Comments	Contractor Installed	Contractor Supplied
STP1	SHORT THROW PROJECTOR	Yes	Yes
TB1	2440x1220 TACK BOARD	Yes	Yes
TB2	1220x1220 TACK BOARD	Yes	Yes
TV2	60" WALLMOUNTED SMART TV	Yes	Yes
TV3	58" WALLMOUNTED SMART TV	Yes	Yes
WB1	1830x1220 WHITE BOARD	Yes	Yes
WB2	<varies>	Yes	Yes
WB3	1220x1220 WHITE BOARD	Yes	Yes

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Keyplans

KEYPLAN

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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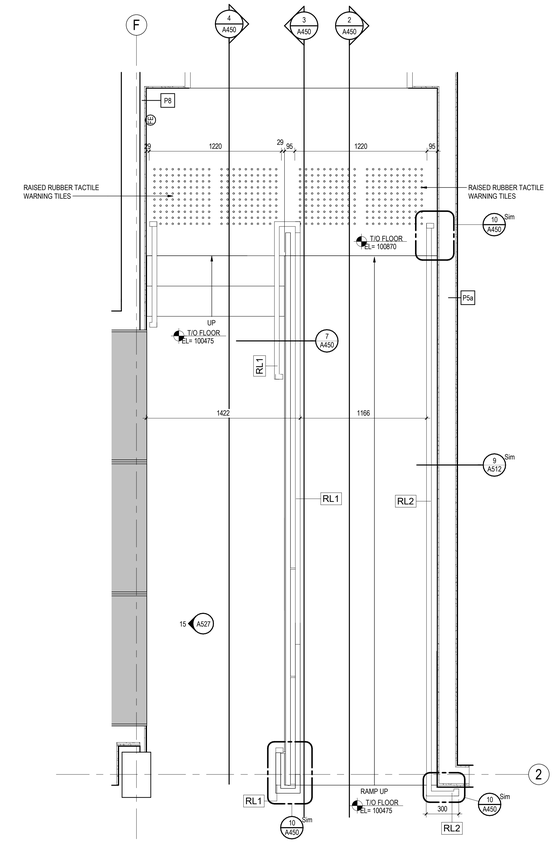
Yukon University
Polaris Project

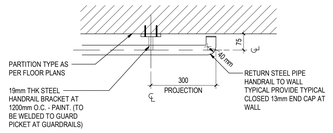
Title
ENLARGED FURNITURE & EQUIPMENT PLAN - ZONE 3

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A432**

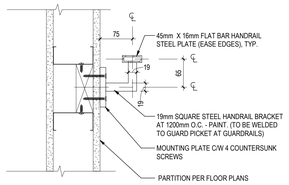
ORIGINAL SHEET - ISO A0



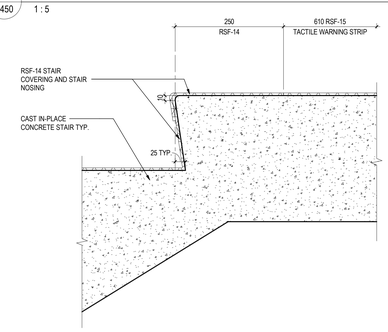
1 A450 ENLARGED PLAN - STAIR & RAMP
1 : 20



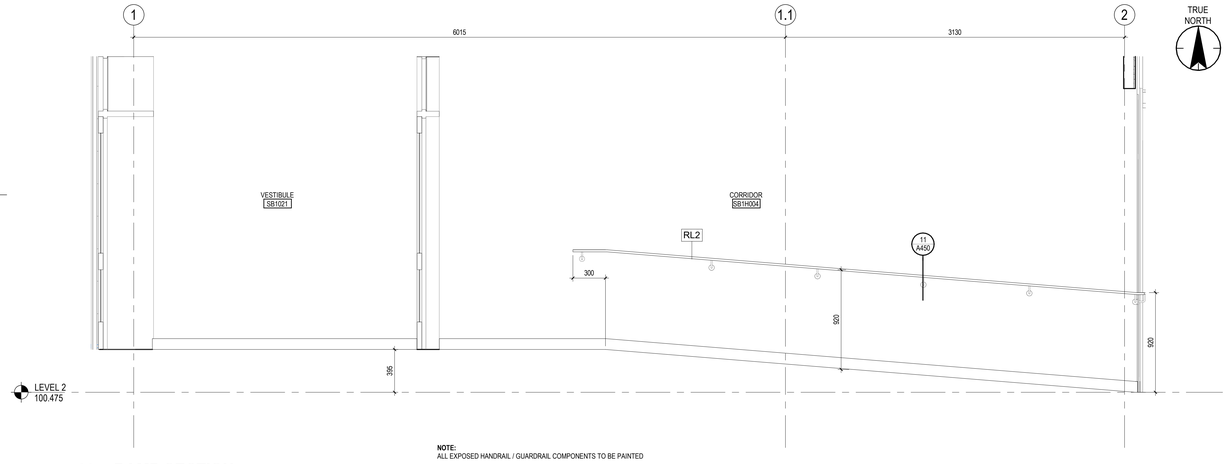
10 A450 STAIRS HANDRAIL EXTENSTION PLAN
1 : 10



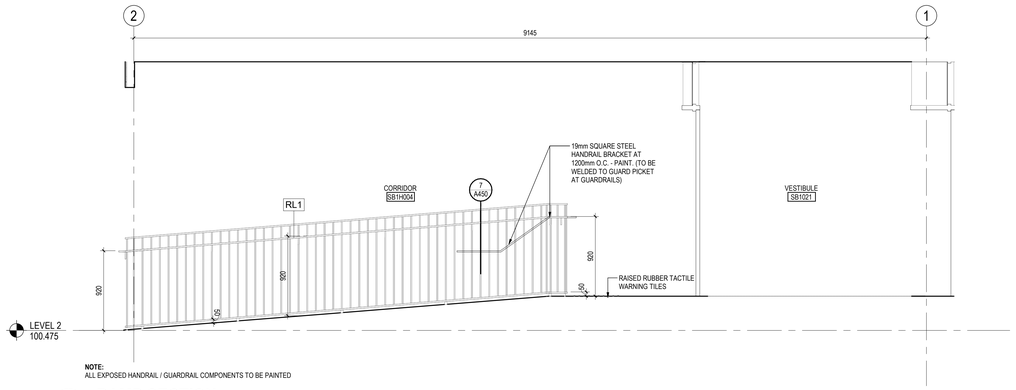
11 A450 INT. HANDRAIL WALL MOUNT GYPSUM DETAIL
1 : 5



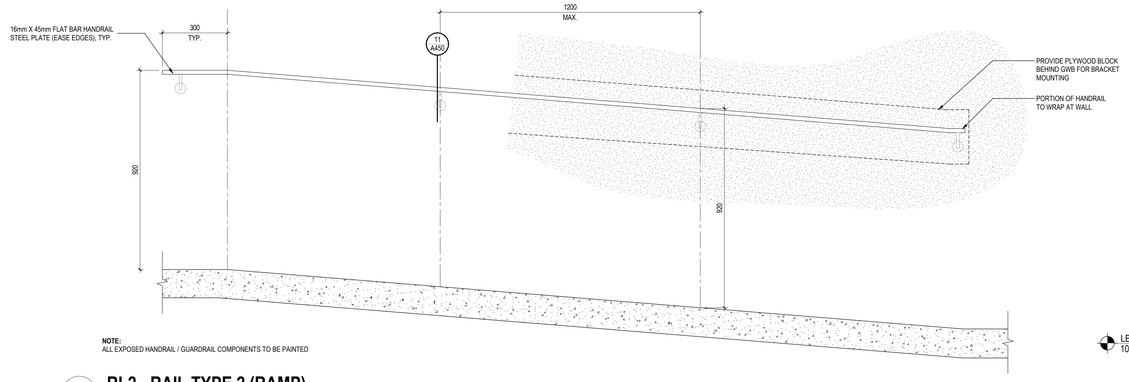
9 A450 TYP. TACTILE WARNING STRIP - DETAIL
1 : 5



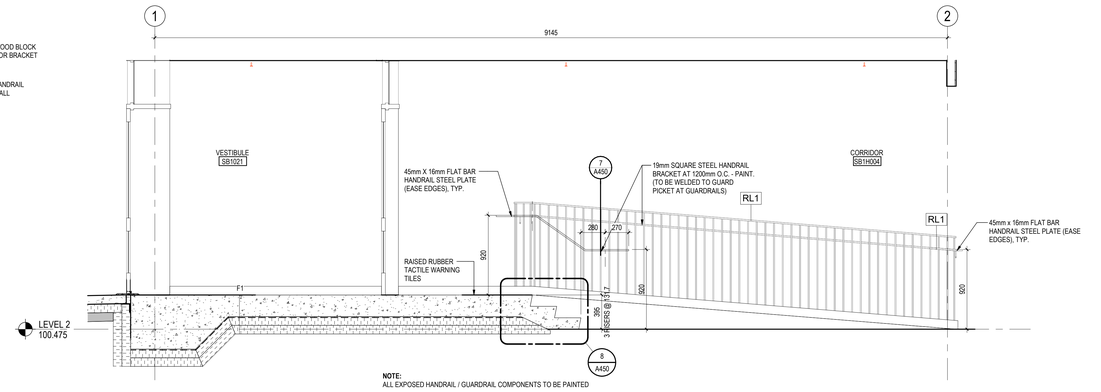
2 A450 RAMP SECTION
1 : 20



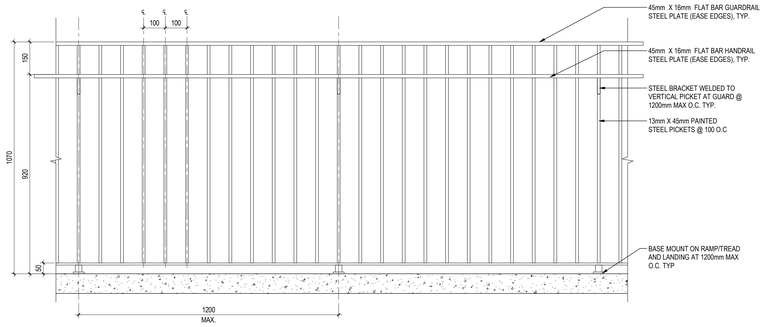
3 A450 RAMP SECTION
1 : 25



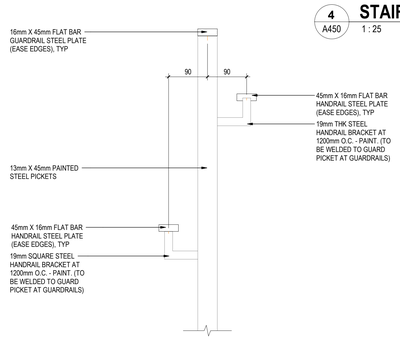
6 A450 RL2 - RAIL TYPE 2 (RAMP)
1 : 10



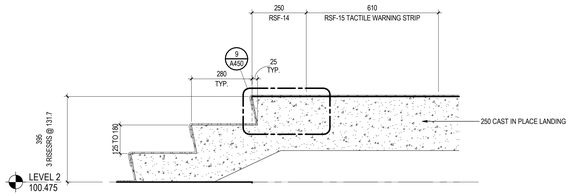
4 A450 STAIR SECTION
1 : 25



5 A450 RL1 - RAIL TYPE 1 ELEVATION (STAIR & RAMP)
1 : 10



7 A450 HANDRAIL MOUNTING DETAIL
1 : 5



8 A450 STAIR DETAIL
1 : 10

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Keyplans

Notes

3	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
2	ISSUED FOR TENDER	GV	CO	2024.05.06
1	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15

Issued & Revision

File Name: N/A	Author	Designer	Checker	03/13/24
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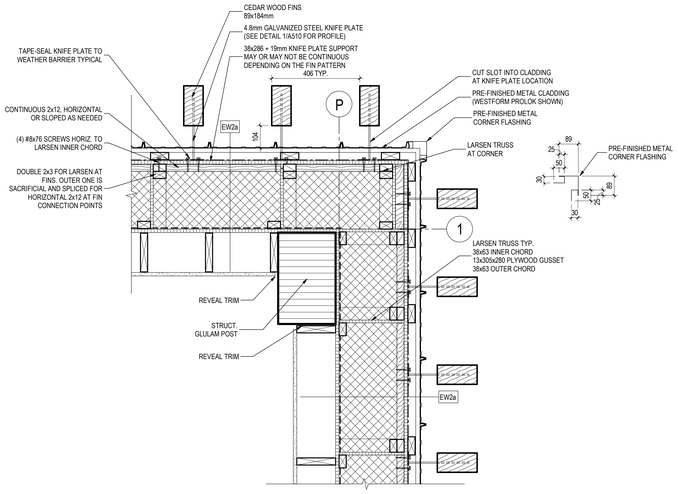
Polaris Project

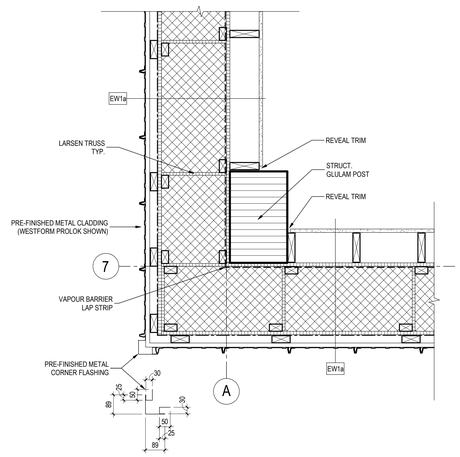
Title
STAIR & RAMP - PLAN & SECTIONS

Project No. 144214760
Scale As indicated
Revision 3
Drawing No. **A450**

ORIGINAL SHEET - ISO A0



1 A500 **CORNER DETAIL G.L. 1-P**
1 : 10



2 A500 **CORNER DETAIL G.L. 7-A**
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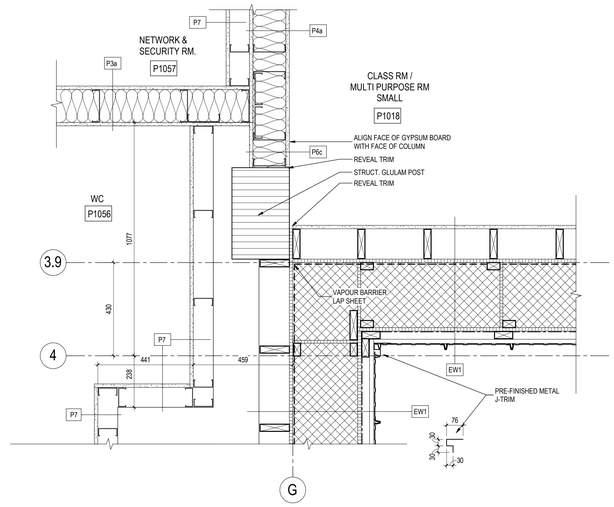
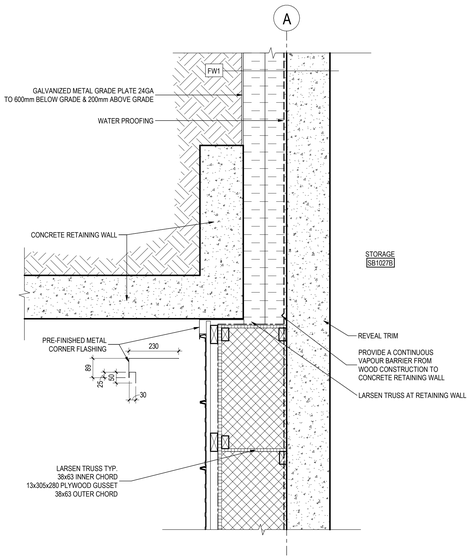


3 A500 **CORNER DETAIL G.L. 4.1-G**
1 : 10



4 A500 **WALL DETAIL G.L. A**
1 : 10

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
PLAN DETAILS

Project No.
144214760

Scale
1 : 10

Revision
6

Drawing No.
A500

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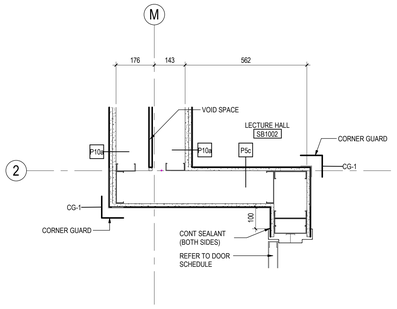

1 A502 **INTERIOR PLAN DETAIL**
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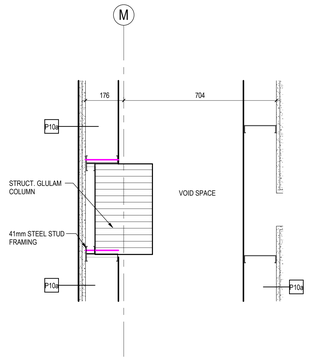

2 A502 **INTERIOR PLAN DETAIL**
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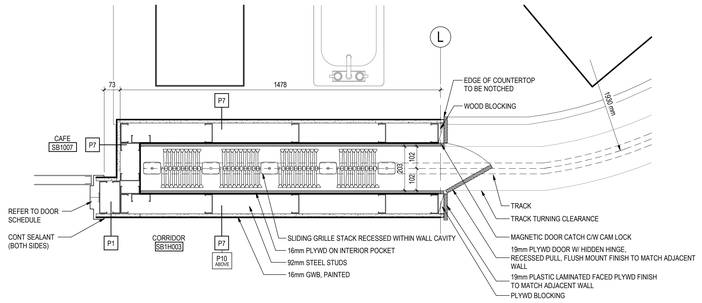

3 A502 **INTERIOR PLAN DETAIL**
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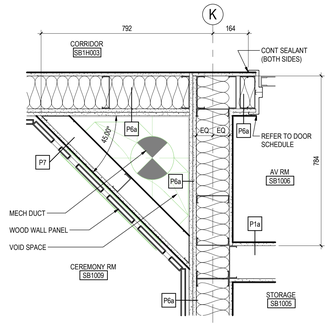

4 A502 **INTERIOR PLAN DETAIL**
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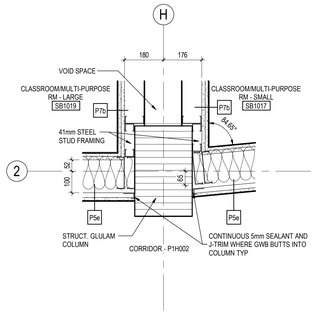

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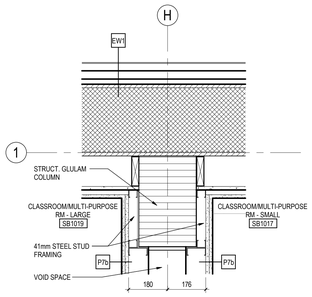

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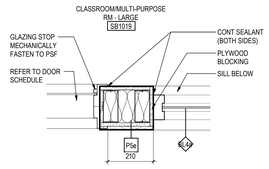

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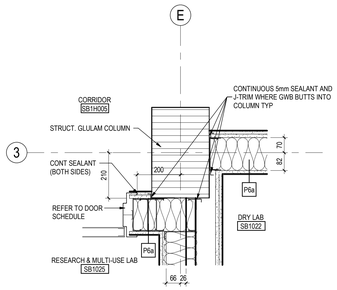

8 A502 **INTERIOR PLAN DETAIL**
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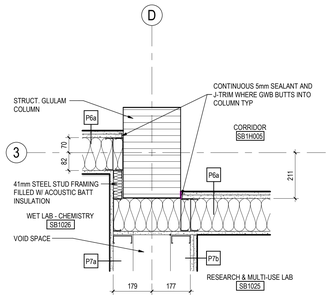

9 A502 **INTERIOR PLAN DETAIL**
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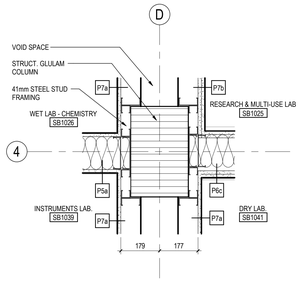

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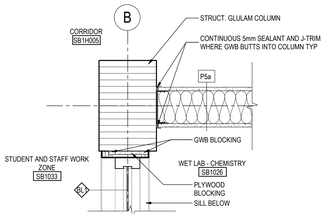

11 A502 **CORNER DETAIL G.L. 3-G**
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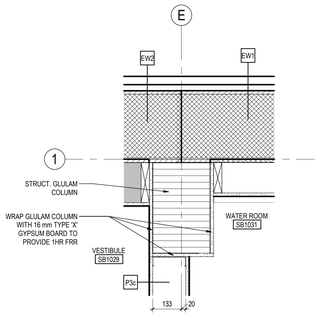

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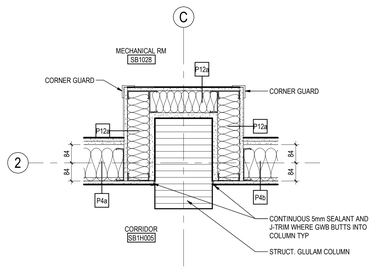

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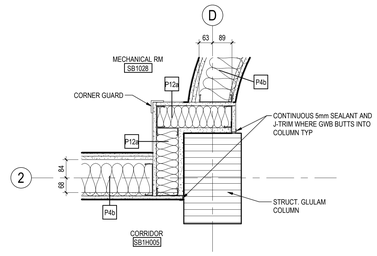

14 A502 **INTERIOR PLAN DETAIL**
1 : 10

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5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
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2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
PLAN DETAILS

Project No.
144214760

Scale
1 : 10

Revision
5

Drawing No.
A502

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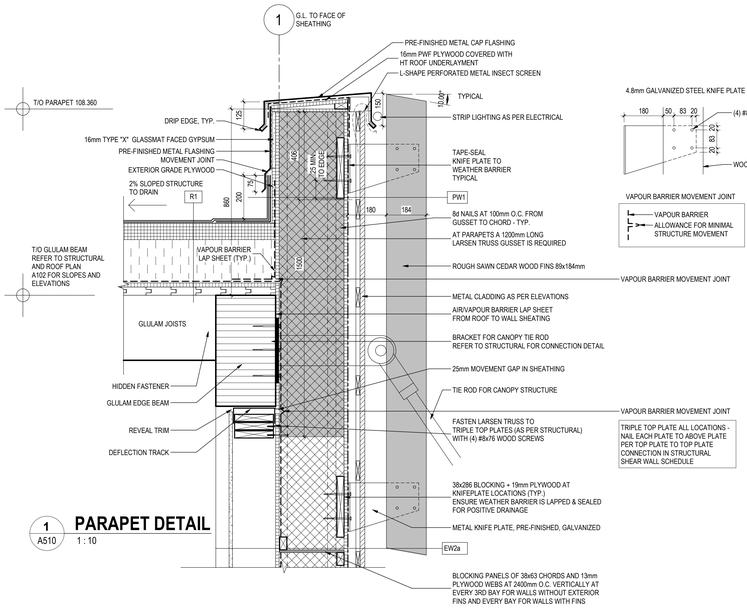

1 PARAPET DETAIL
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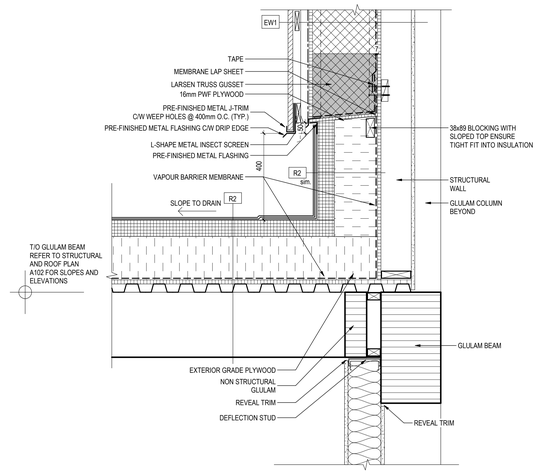

2 STEPPED ROOF DETAIL
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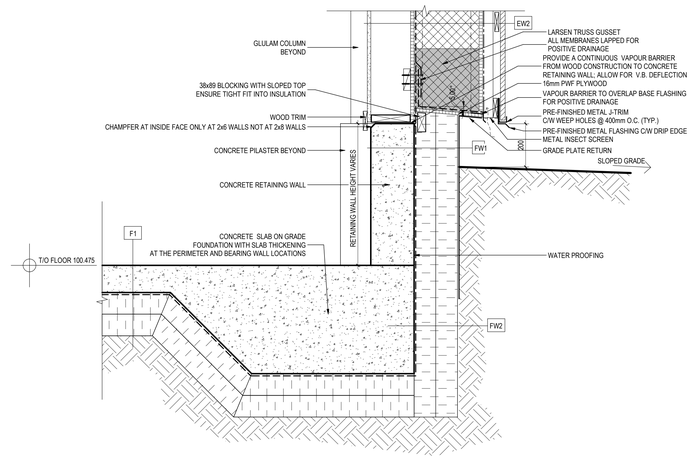
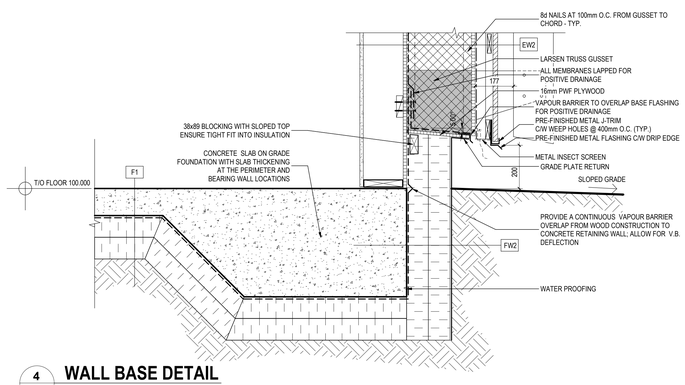


3 RETAINING WALL DETAIL AT NON OCCUPIED SPACES
A510 1 : 10



4 WALL BASE DETAIL
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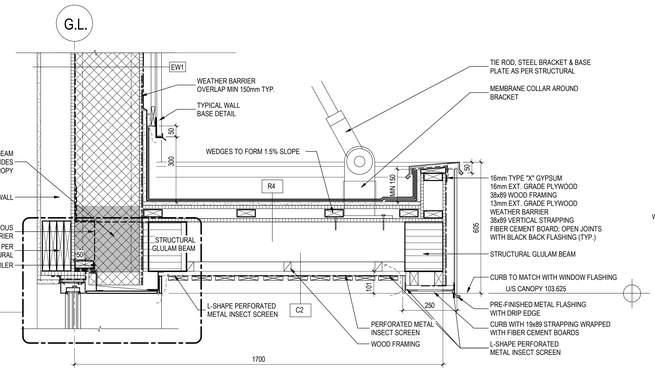

5 SECONDARY CANOPY DETAIL
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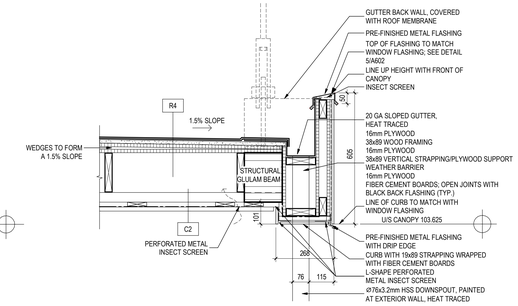

6 SECONDARY CANOPY SIDE DETAIL
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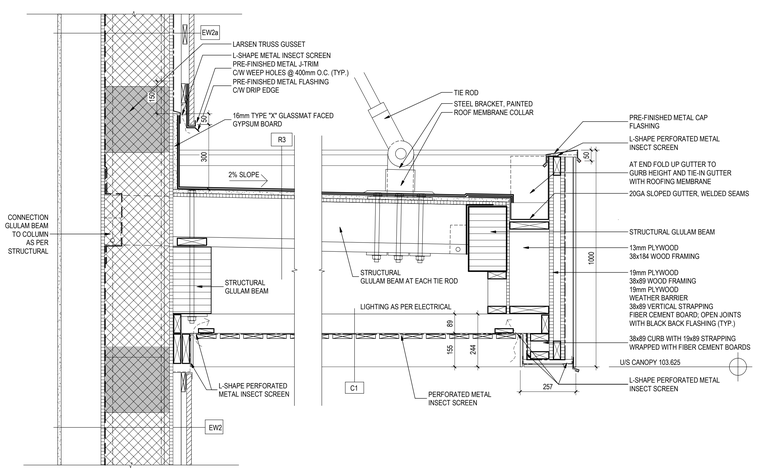

7 MAIN CANOPY DETAIL
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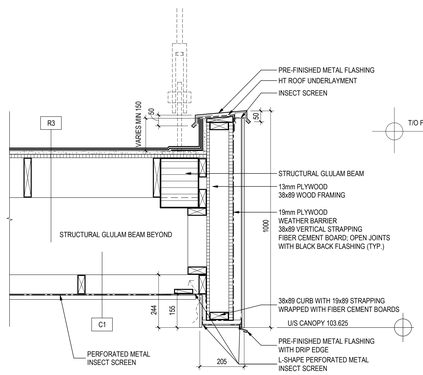
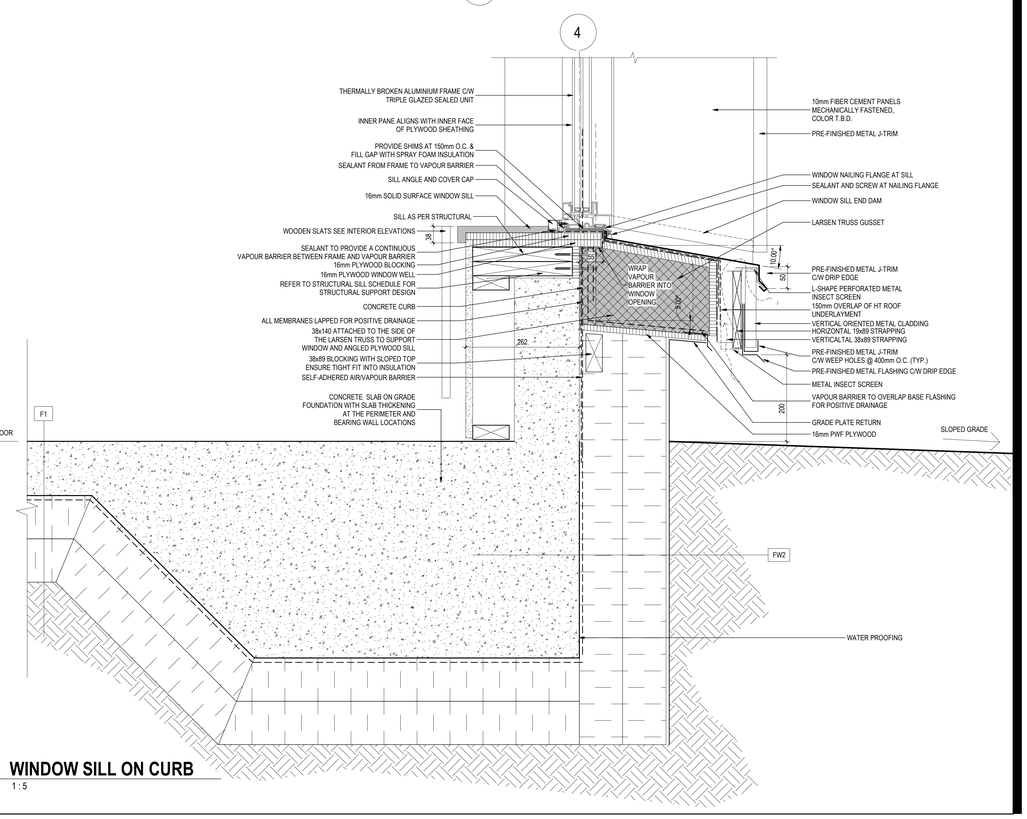


8 MAIN CANOPY SIDE DETAIL
A510 1 : 10



9 WINDOW SILL ON CURB
A510 1 : 5

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1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
ENVELOPE SECTION DETAILS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A510**

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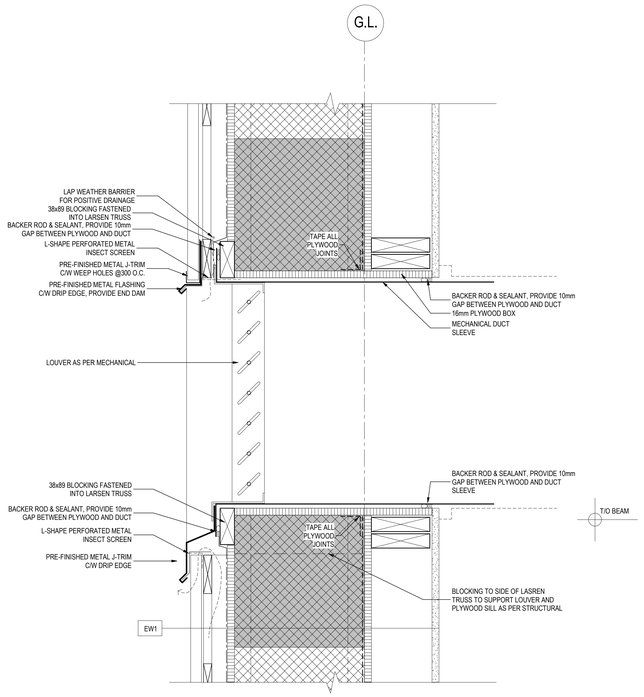

1 A511 LOUVER DETAIL
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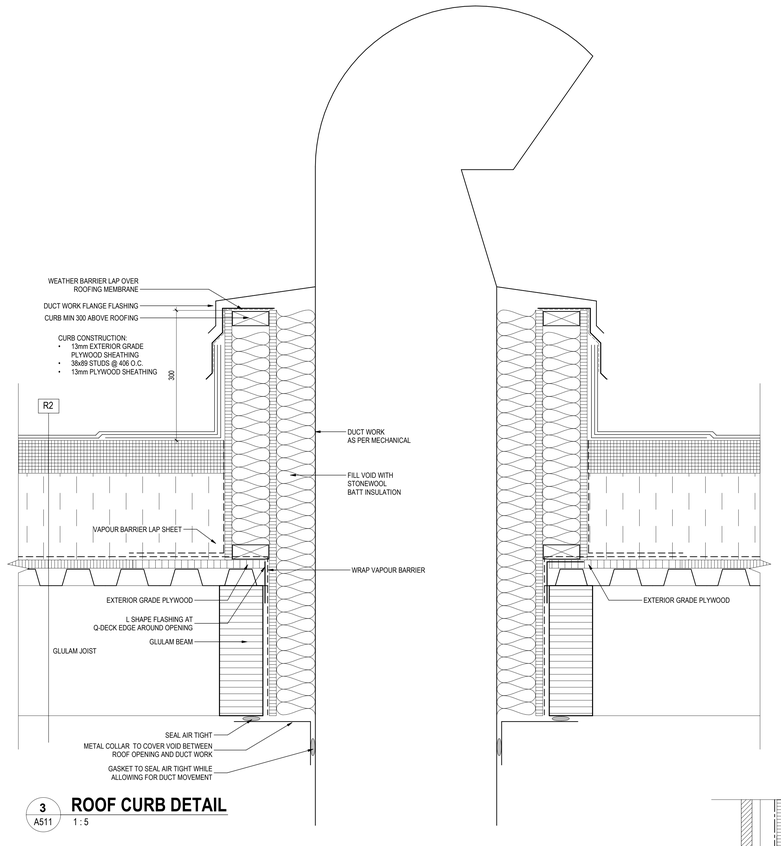

3 A511 ROOF CURB DETAIL
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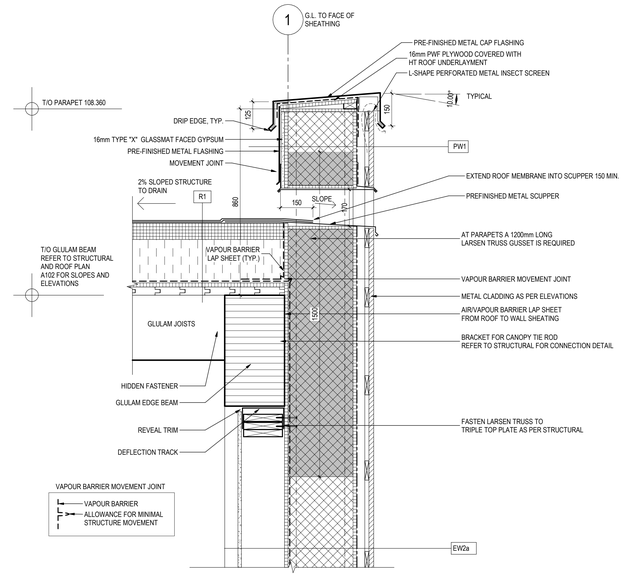

9 A511 OVERFLOW SCUPPER DETAIL
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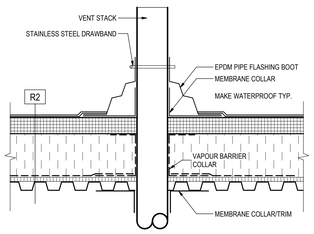

4 A511 VENT STACK DETAIL
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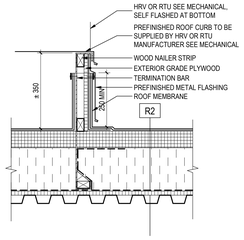

8 A511 MECH EQUIP. ROOF CURB
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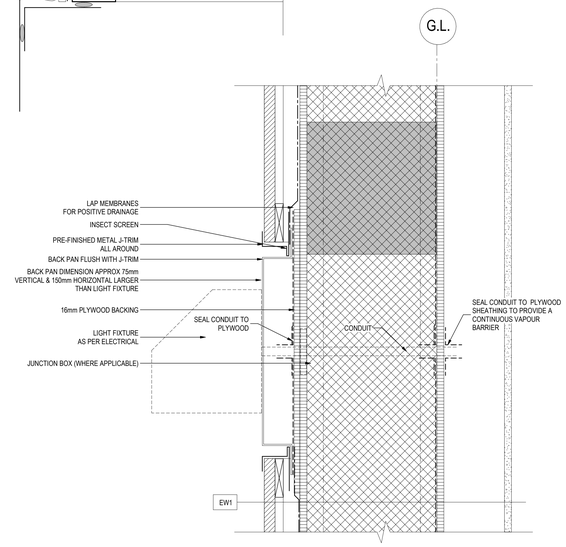

2 A511 EXTERIOR LIGHT FIXTURE DETAIL
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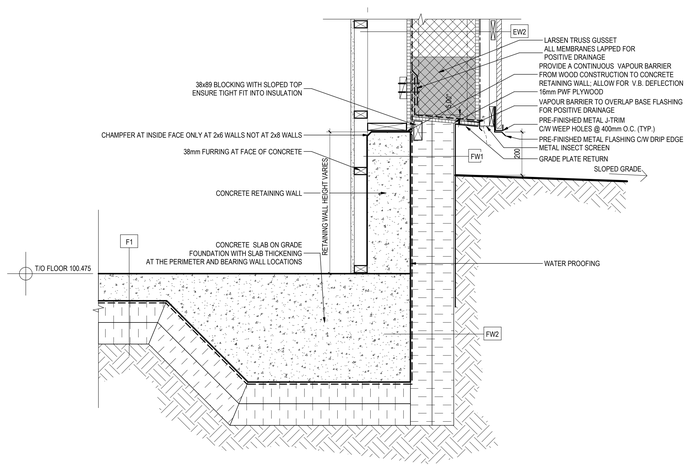

7 A511 RETAINING WALL DETAIL AT OCCUPIED SPACES
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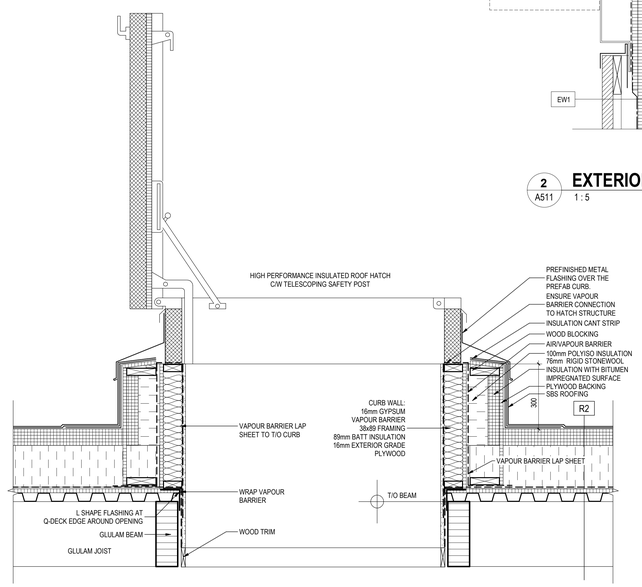

5 A511 ROOF HATCH DETAIL
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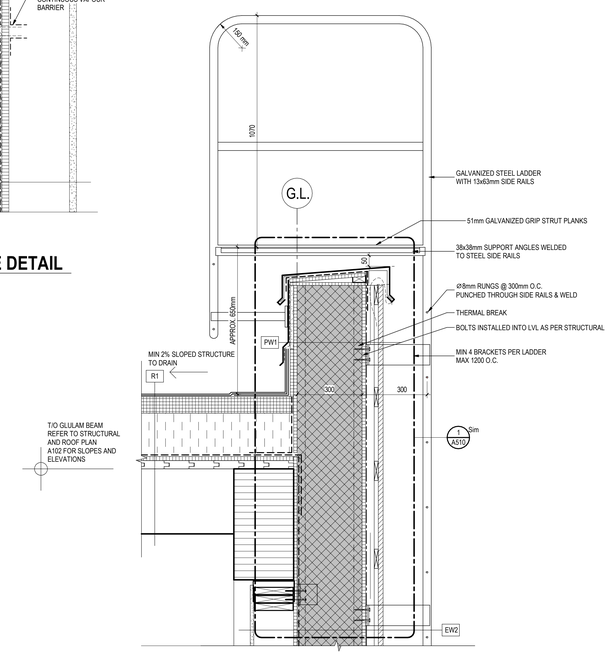

6 A511 ROOF LADDER DETAIL
1 : 10

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Notes

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5	ISSUED FOR TENDER	GV	CO	2024.05.06
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3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
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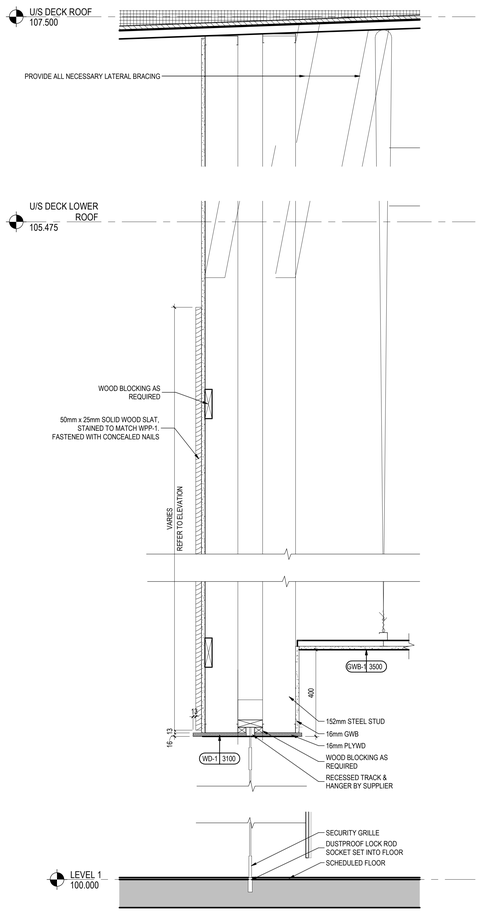
Polaris Project

Title
ENVELOPE SECTION DETAILS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. A511

11/09/2024 11:23:58 AM
ORIGINAL SHEET - ISO A0



1 A512 **CAFE - BULKHEAD & CEILING DETAIL**
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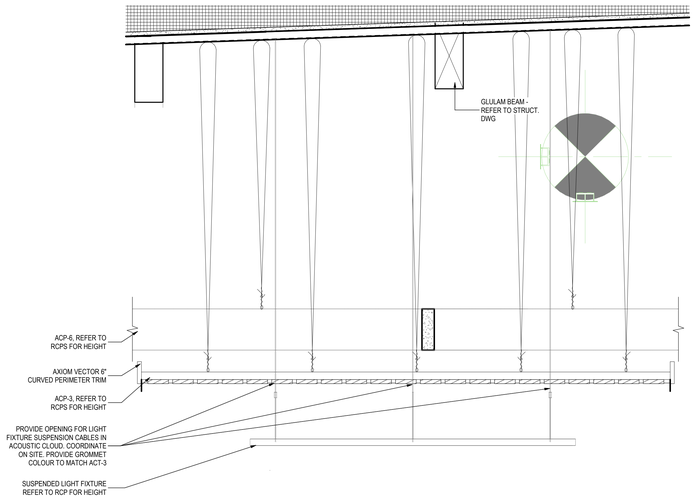

2 A512 **TYP. SUSPENDED WOOD PANEL DETAIL @ STUDENT & STAFF WORK ZONE**
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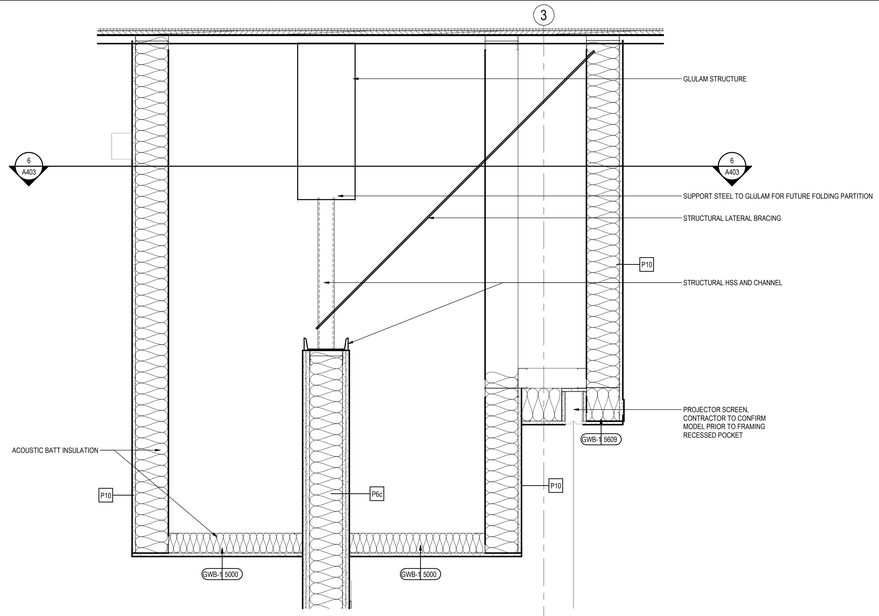
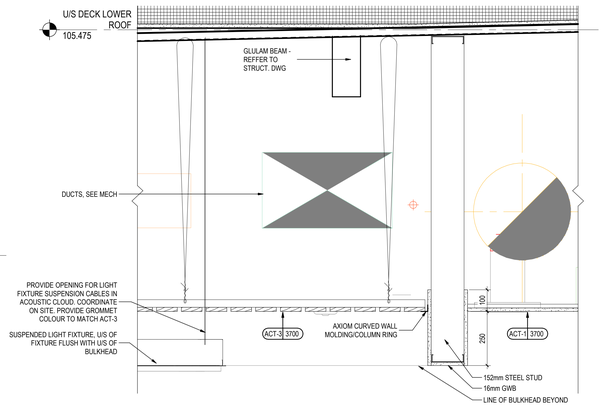


3 A512 **LECTURE HALL PROJECTOR SCREEN - CEILING DETAIL**
1 : 10



4 A512 **CEILING DETAIL @ CLASSROOM/MULTI-PURPOSE ROOM**
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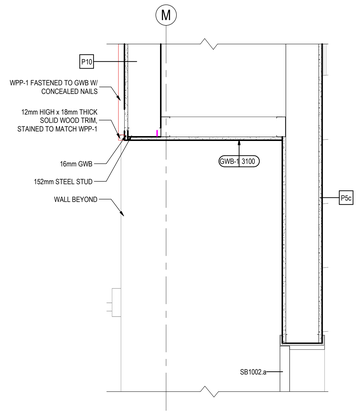

5 A512 **BULKHEAD @ LECTURE HALL**
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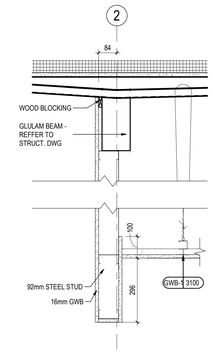

6 A512 **BULKHEAD @ CORRIDOR**
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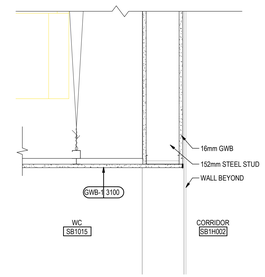

7 A512 **BULKHEAD CEILING @ WC**
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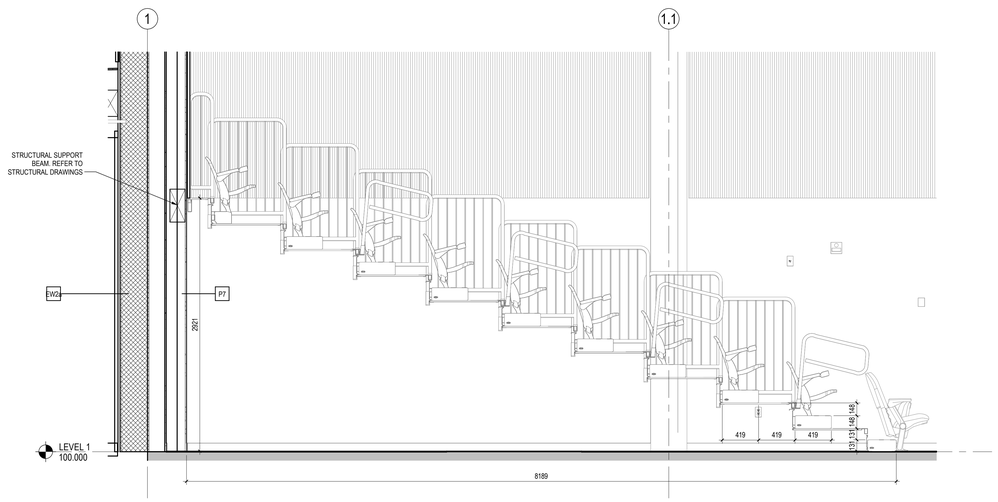

8 A512 **TELESCOPIC SEATING SECTION**
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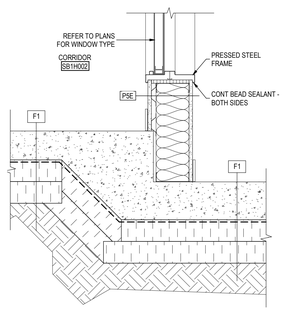

9 A512 **CLASSROOM TO CORRIDOR**
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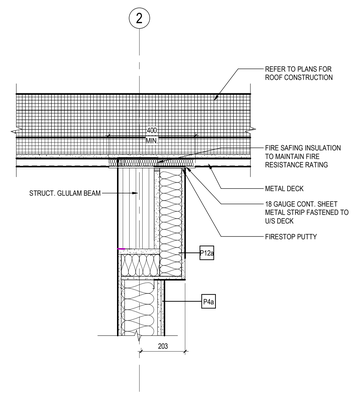

10 A512 **BEAM U/S OF STRUCTURE - FRR**
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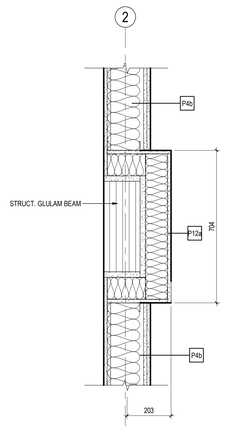

11 A512 **BEAM AT MID WALL - FRR**
1 : 10

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Client/Project Logo

Yukon University

Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.08.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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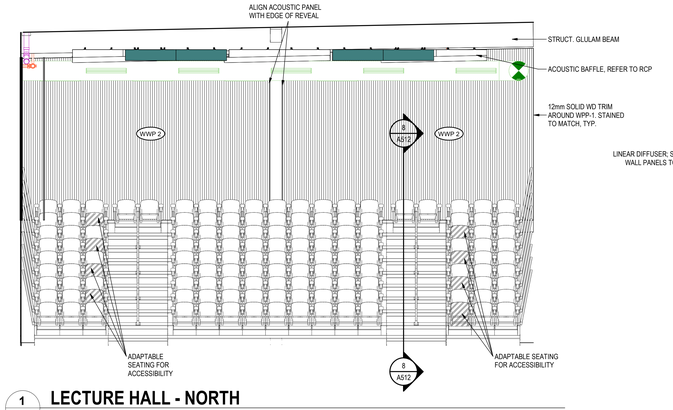
Client/Project
Yukon University
Polaris Project

Title
SECTION DETAILS

Project No. 144214760
Scale As indicated
Revision 5
Drawing No. **A512**

ORIGINAL SHEET - ISO A0



1 A520 LECTURE HALL - NORTH
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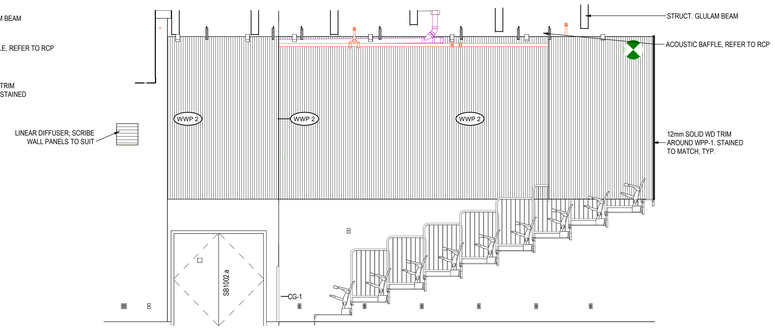

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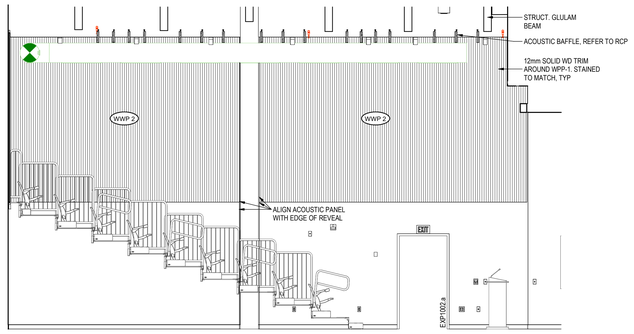

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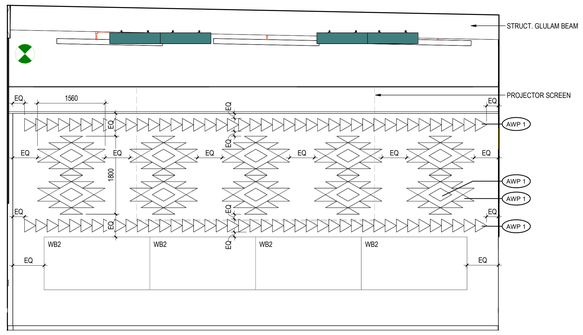

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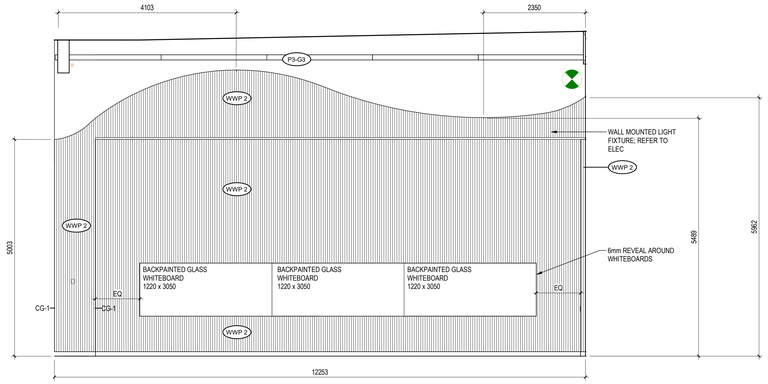

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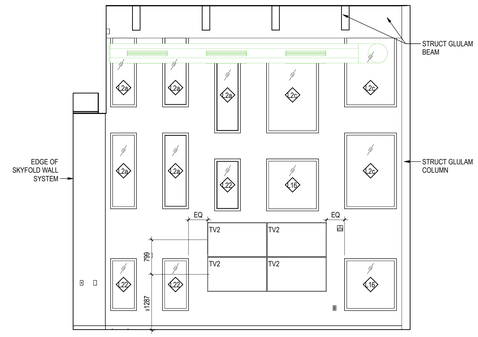

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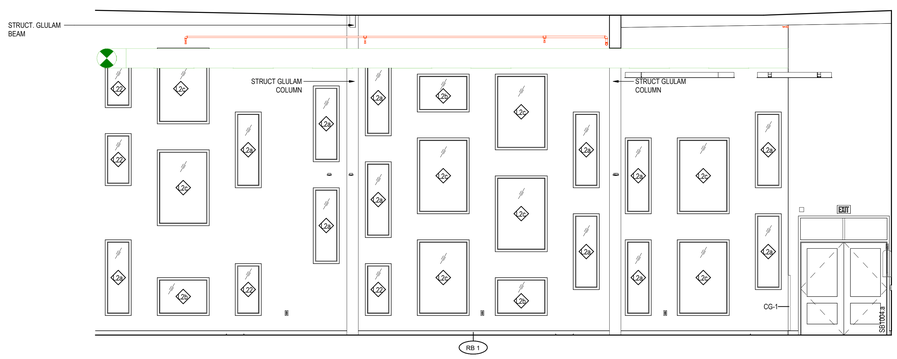

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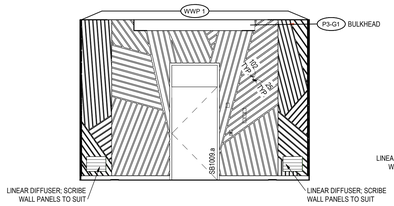

8 A520 CEREMONY ROOM - NORTH
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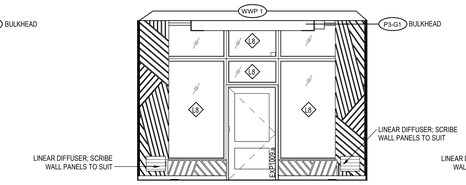

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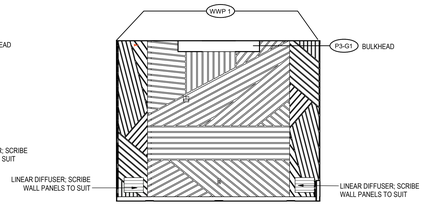

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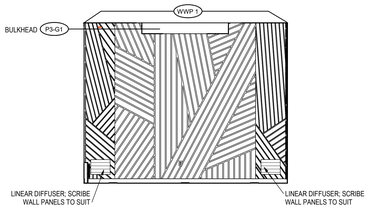

11 A520 CEREMONY ROOM - WEST
1 : 50

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Keyplans

Notes

4	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
3	ISSUED FOR TENDER	GV	CO	2024.05.06
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3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

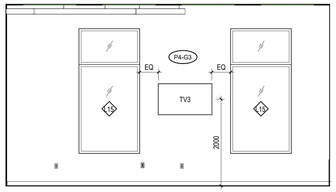
Project No. 144214760

Scale 1 : 50

Revision 6

Drawing No. **A520**

ORIGINAL SHEET - ISO A2



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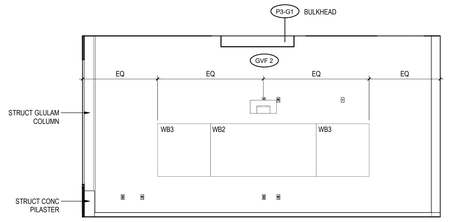

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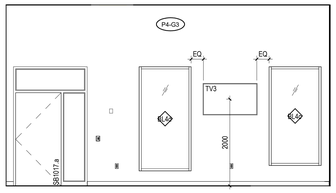

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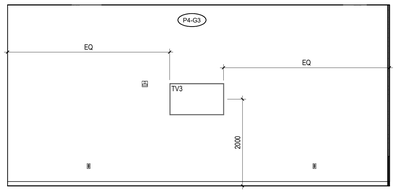

4 A521 **CLASSROOM/ MULTI-PURPOSE ROOM SMALL(A)-WEST**
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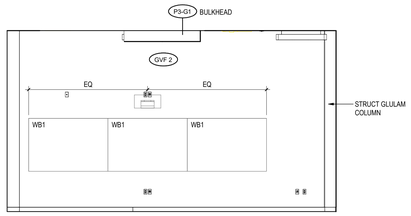

5 A521 **CLASSROOM/ MULTI-PURPOSE ROOM SMALL(B)-EAST**
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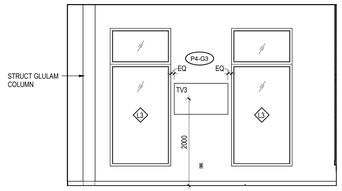

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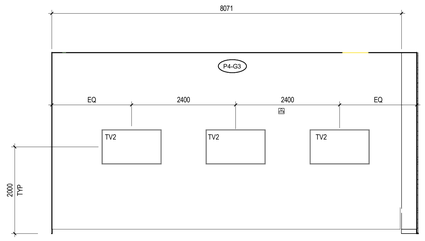

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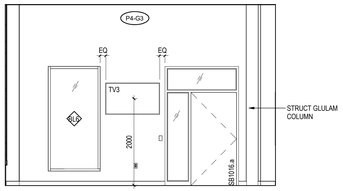

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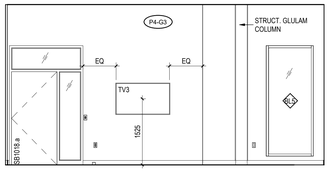

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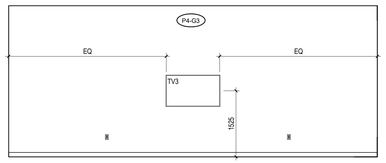

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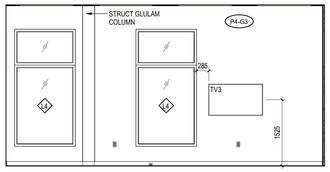

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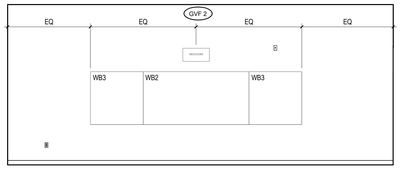

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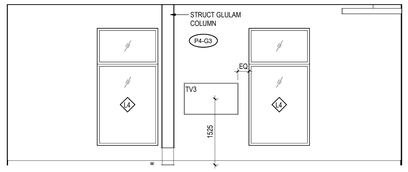

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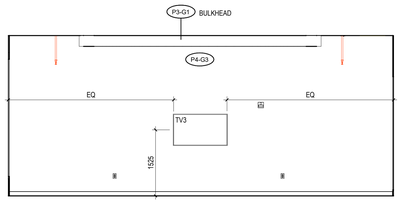

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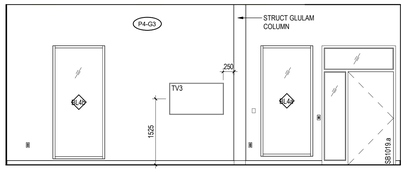

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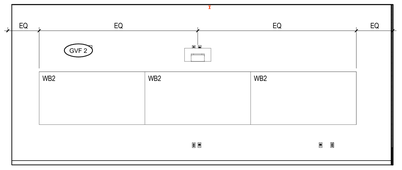

16 A521 **CLASSROOM/ MULTI-PURPOSE ROOM LARGE - WEST**
1 : 50

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
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3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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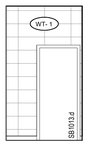
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. **A521**

ORIGINAL SHEET - ISO A0



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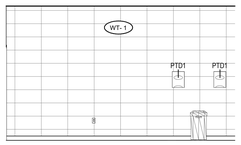

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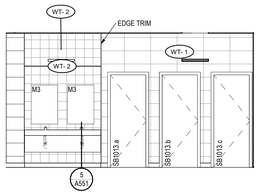

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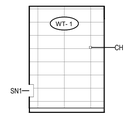

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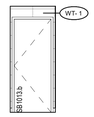
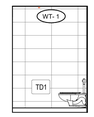


5 A522 **WASHROOM-TYP.EAST**
1 : 50



6 A522 **WASHROOM-TYP.SOUTH**
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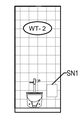

7 A522 **WASHROOM-TYP.WEST**
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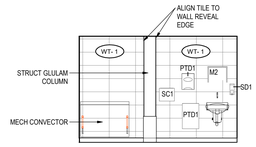

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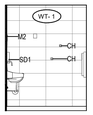

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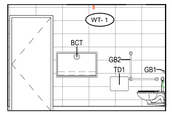

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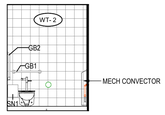

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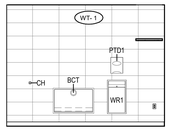

12 A522 **BF WASHROOM (A) NORTH**
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13 A522 **BF WASHROOM (A) EAST**
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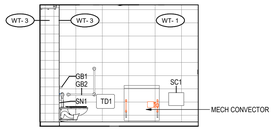

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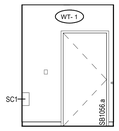

15 A522 **BF WASHROOM (A) - WEST**
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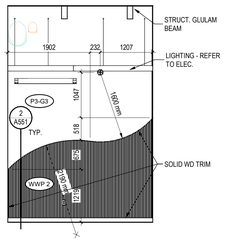

16 A522 **STUDENT AND STAFF WORK ZONE (D) - EAST**
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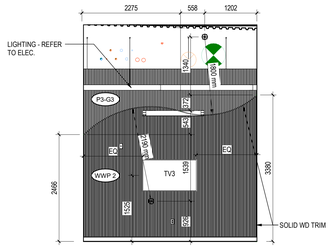

17 A522 **STUDENT AND STAFF WORK ZONE (D) - SOUTH**
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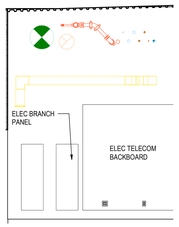

18 A522 **NETWORK AND SECURITY ROOM-NORTH**
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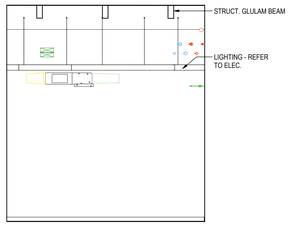

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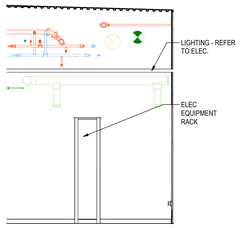

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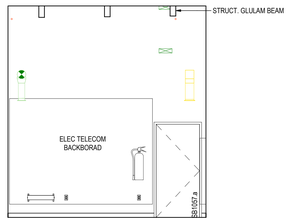

21 A522 **NETWORK AND SECURITY ROOM- WEST**
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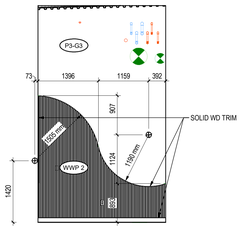

22 A522 **STUDENT AND STAFF WORK ZONE (A) - NORTH**
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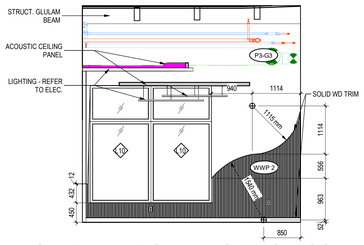

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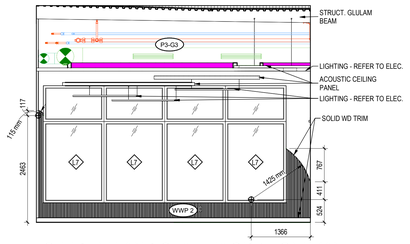

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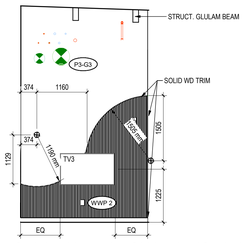

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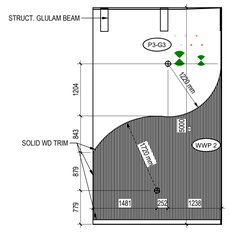

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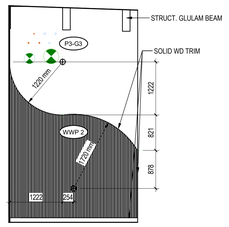

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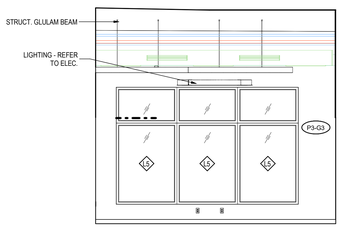

28 A522 **STUDENT AND STAFF WORK ZONE (B) - SOUTH**
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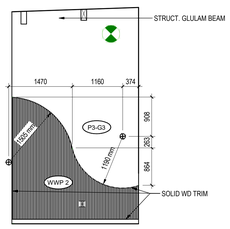

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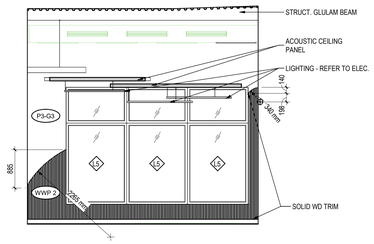

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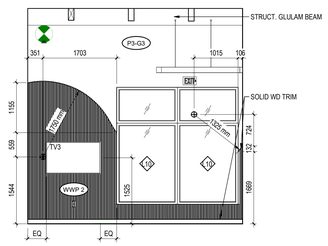

31 A522 **STUDENT AND STAFF WORK ZONE (C) - WEST**
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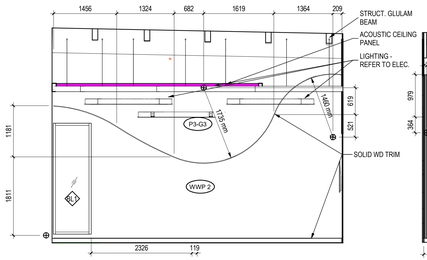

32 A522 **STUDENT AND STAFF WORK ZONE (E) - EAST**
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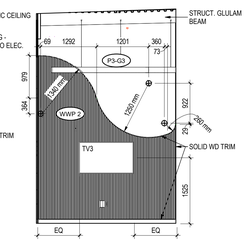

33 A522 **STUDENT AND STAFF WORK ZONE (E) - SOUTH**
1 : 50

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

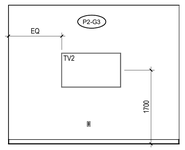
Project No. 144214760

Scale 1 : 50

Revision 6

Drawing No. **A522**

ORIGINAL SHEET - ISO A0



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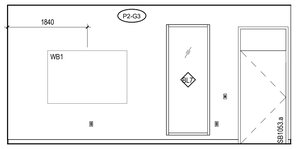

2 A523 **MEETING ROOM - WEST**
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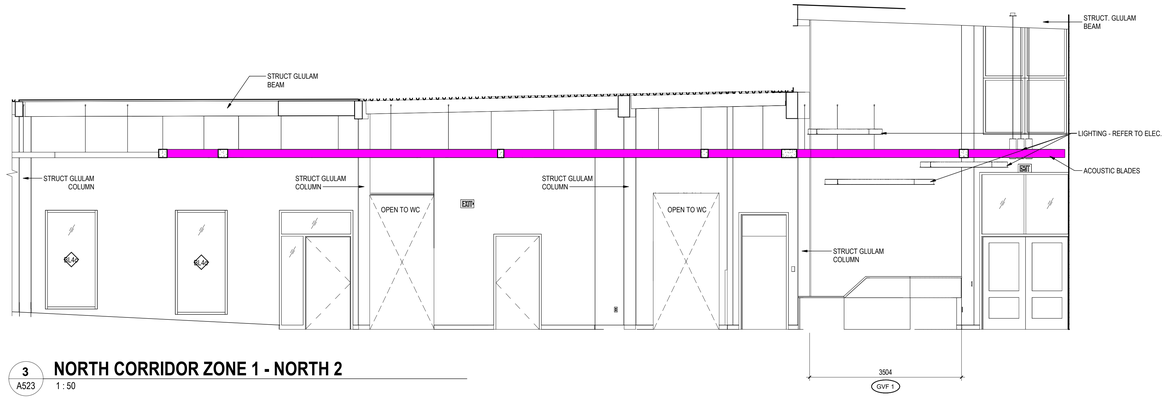

3 A523 **NORTH CORRIDOR ZONE 1 - NORTH 2**
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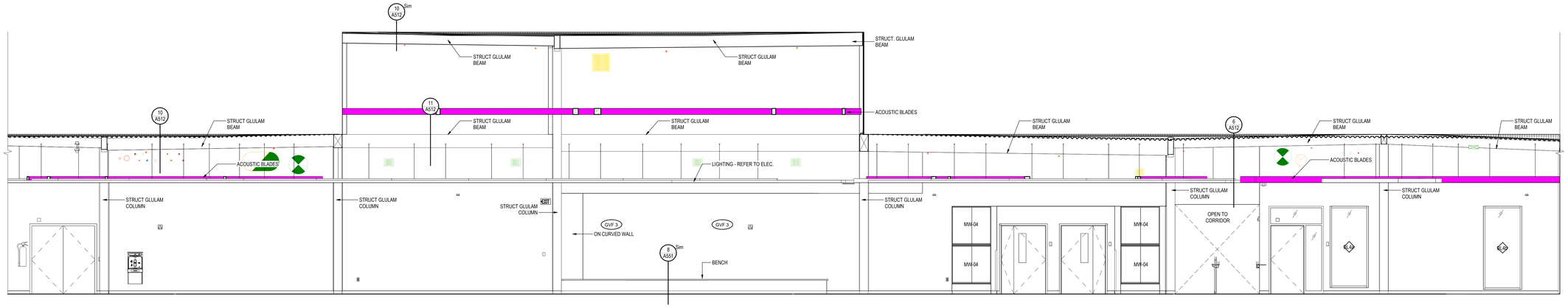

4 A523 **NORTH CORRIDOR ZONE 2 - NORTH 1**
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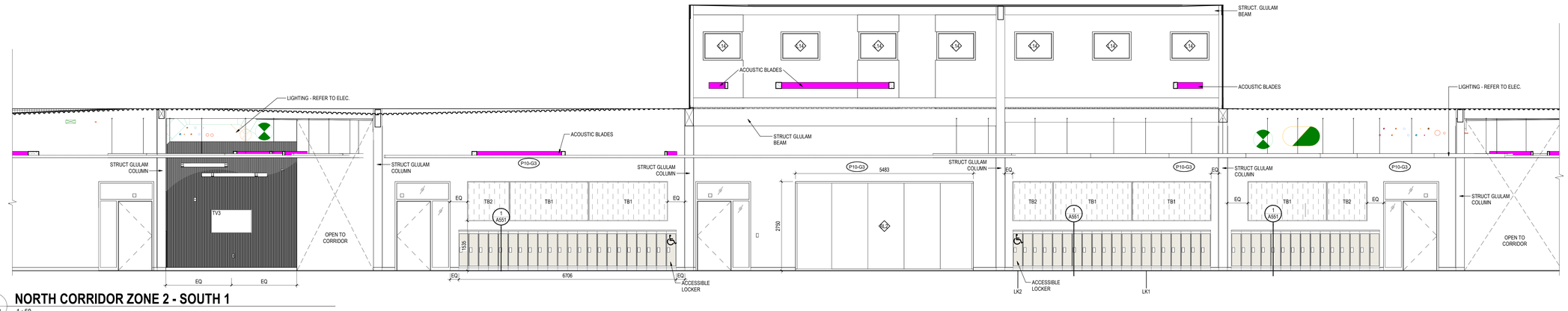

5 A523 **NORTH CORRIDOR ZONE 2 - SOUTH 1**
1 : 50

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Notes

4	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/28/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

Project No. 144214760

Scale 1 : 50

Revision 6

Drawing No. **A523**

ORIGINAL SHEET - ISO A0

1 A524 EAST CORRIDOR ZONE 3 - EAST
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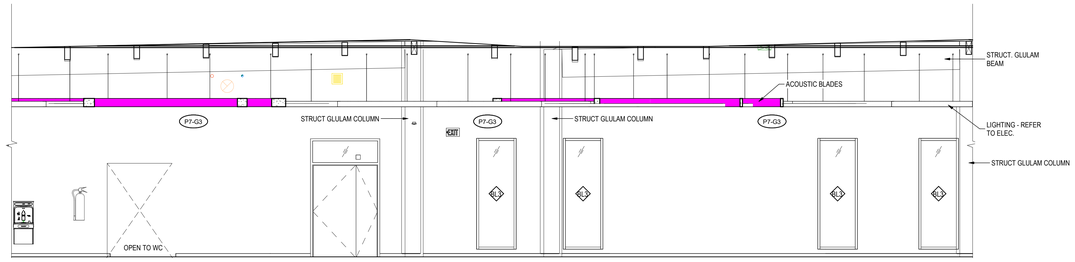

2 A524 EAST CORRIDOR ZONE 3 - WEST
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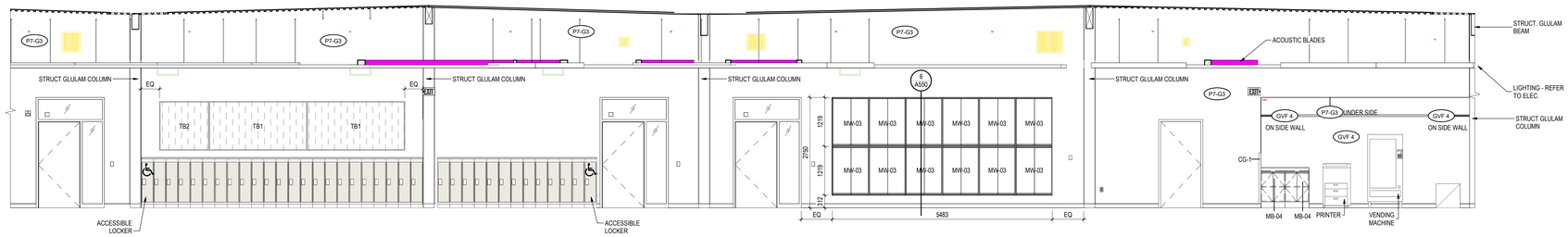

3 A524 SOUTH CORRIDOR ZONE 3 - NORTH
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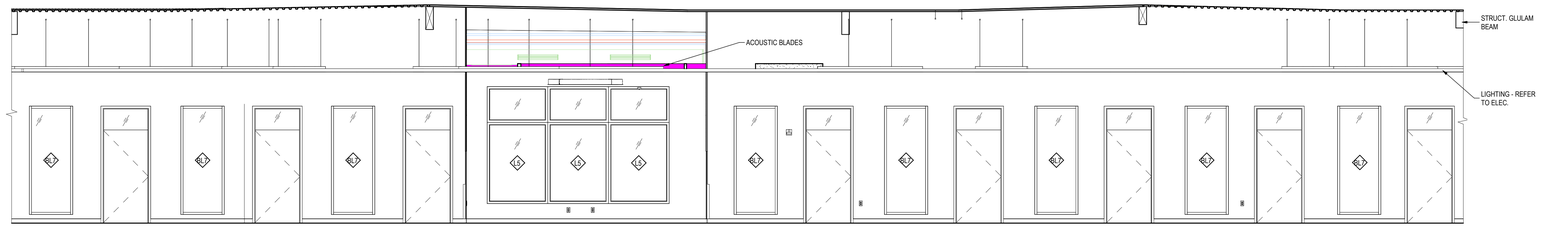

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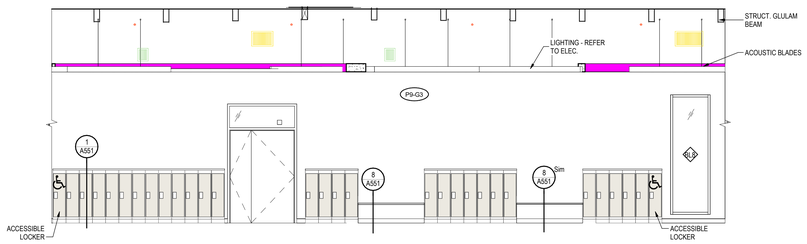

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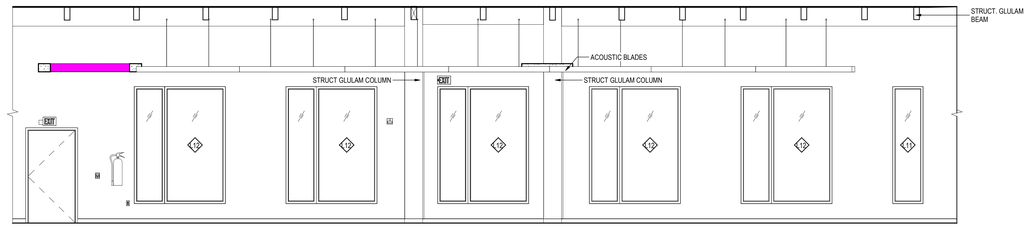

6 A524 WEST CORRIDOR ZONE 3 - WEST
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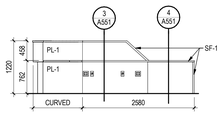

7 A524 ADMIN DESK - SOUTH
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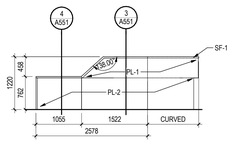

8 A524 ADMIN DESK - NORTH
1 : 50

9 A524 SOUTH CORRIDOR ZONE 1 - SOUTH
1 : 50

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Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/28/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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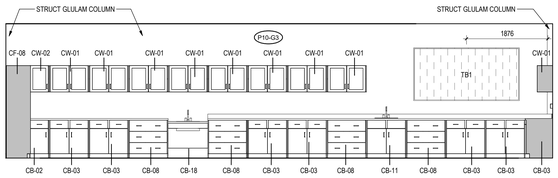
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. A524

ORIGINAL SHEET - ISO A0



1 A525 DRY LAB. 1 - WEST
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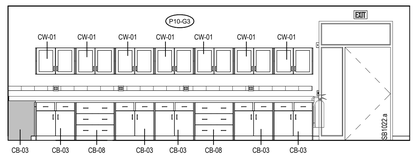

2 A525 DRY LAB. 1 - NORTH
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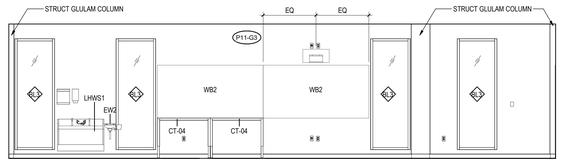

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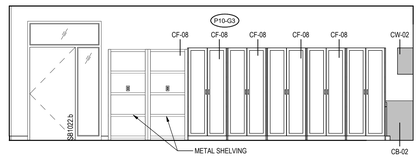

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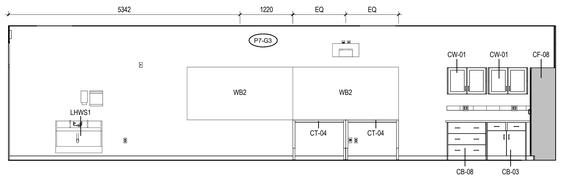

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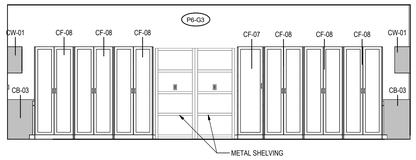

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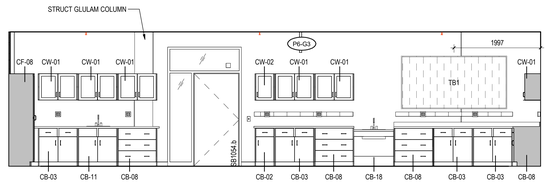

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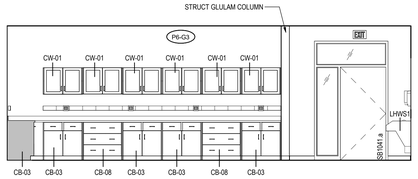

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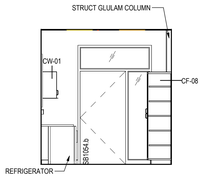

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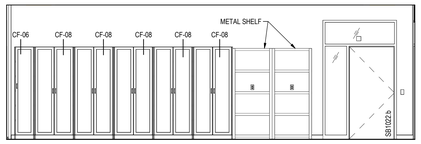

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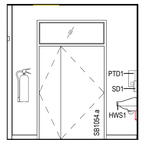

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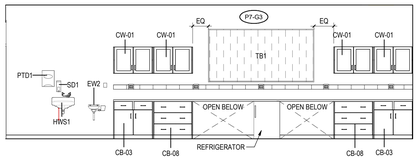

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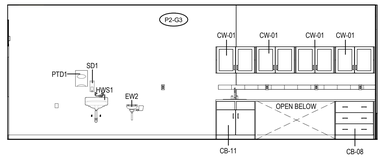

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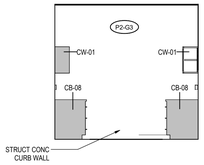

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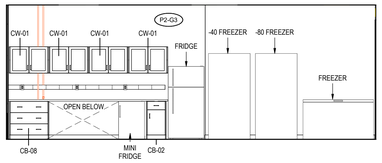

17 A525 SPECIMEN WORKSHOP - EAST
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15 A525 SPECIMEN WORKSHOP - SOUTH
1 : 50

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Stantec Architecture Ltd.
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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	09/23/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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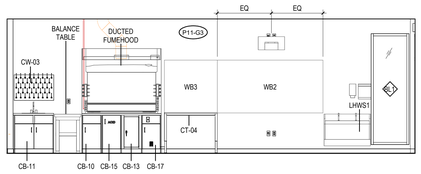
Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. **A525**

ORIGINAL SHEET - ISO A0



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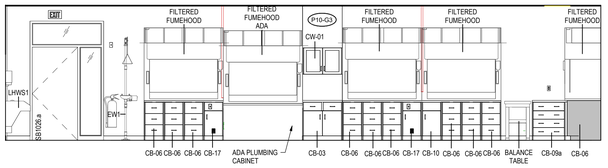

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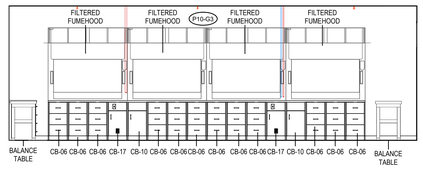

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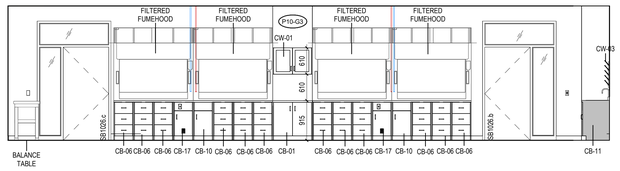

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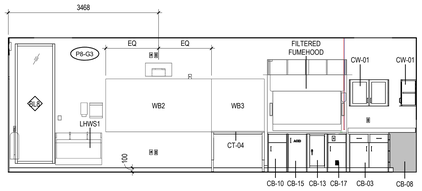

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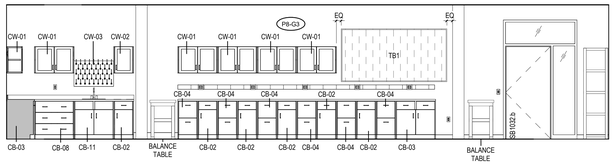

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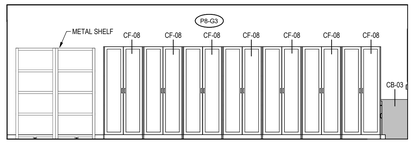

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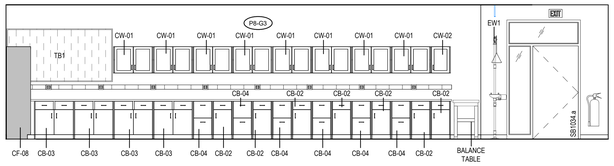

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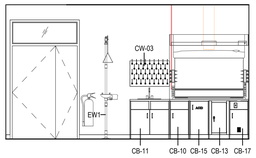

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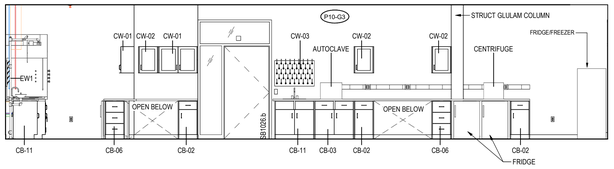

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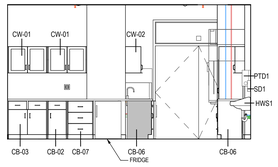

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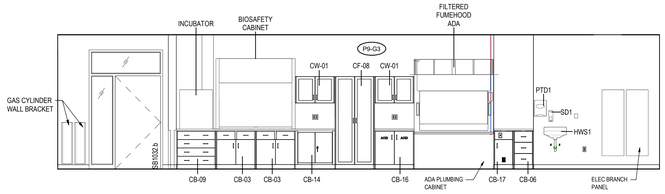

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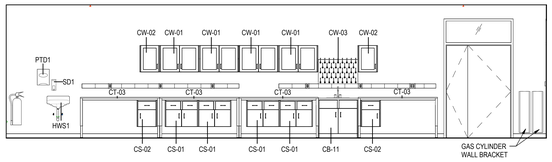

13 A526 **INSTRUMENTS LAB. - WEST**
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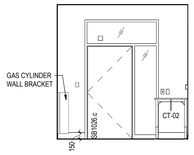

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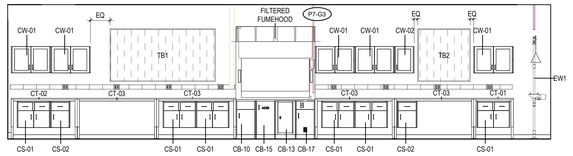

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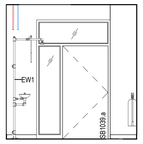

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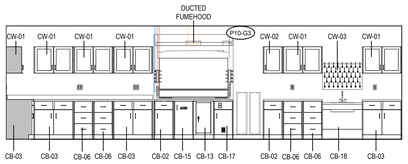

17 A526 **MAKER/RESEARCH SPACE - WEST**
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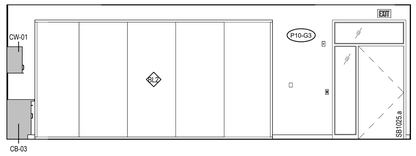

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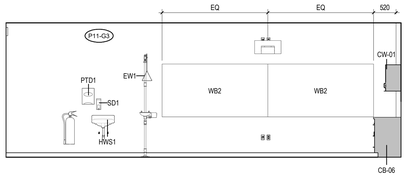

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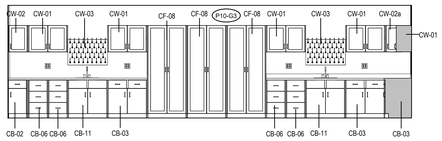

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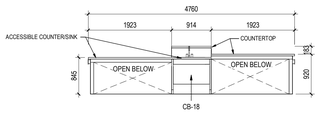

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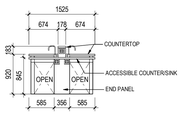

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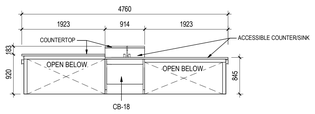

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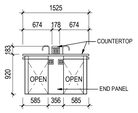

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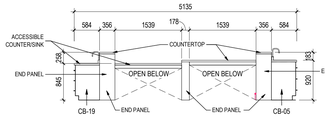

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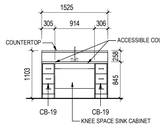

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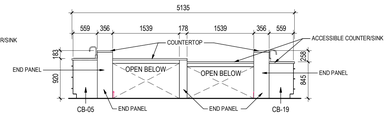

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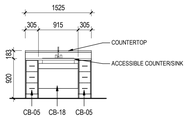

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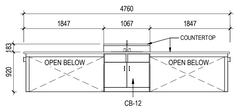

29 A526 **WET LAB. (CHEM) BENCH - WEST**
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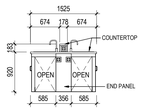

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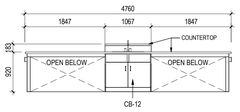

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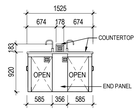

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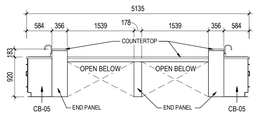

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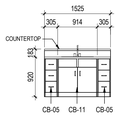
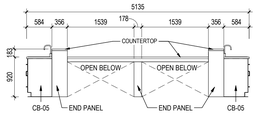


34 A526 **WET LAB. (BIO) BENCH - NORTH**
1 : 50



35 A526 **WET LAB. (BIO) BENCH - EAST**
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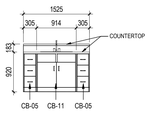

36 A526 **WET LAB. (BIO) BENCH - SOUTH**
1 : 50

ORIGINAL SHEET - ISO A0

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Client/Project Logo

Yukon University

Keyplans

Notes

Issued & Revision		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16

File Name: N/A	Author	Designer	Checker	08/25/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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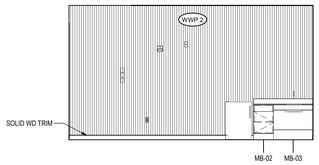
Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

Project No. 144214760
Scale 1 : 50
Revision 6
Drawing No. **A526**



1 A527 **KNOWLEDGE SHARING SPACE (A) - WEST**
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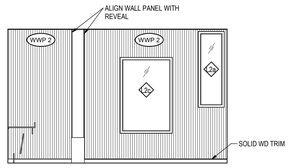

2 A527 **KNOWLEDGE SHARING SPACE (A) - NORTH**
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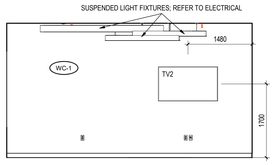

3 A527 **KNOWLEDGE SHARING SPACE (A)- EAST**
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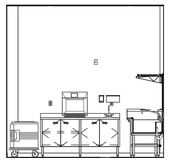

4 A527 **CAFE - WEST**
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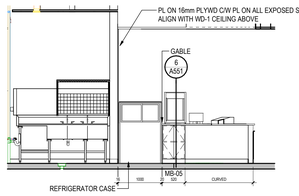

5 A527 **CAFE - NORTH**
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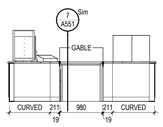

6 A527 **CAFE - EAST**
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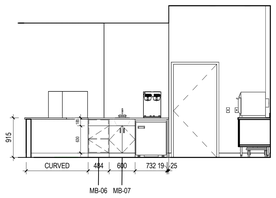

7 A527 **CAFE - SOUTH**
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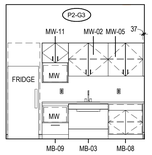

8 A527 **KITCHENETTE - EAST**
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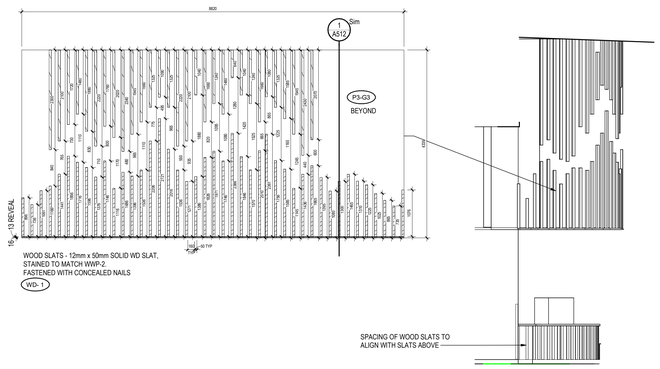

9 A527 **CAFE WOOD PANELS - SOUTH**
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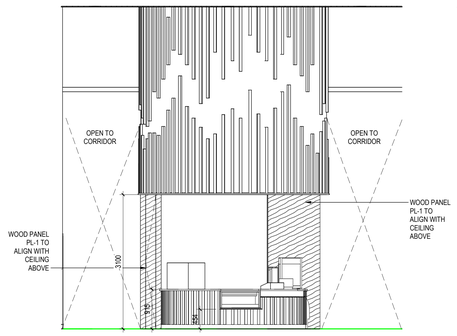

10 A527 **CAFE WOOD PANELS - EAST**
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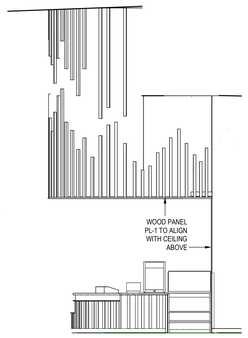

11 A527 **CAFE WOOD PANELS - NORTH**
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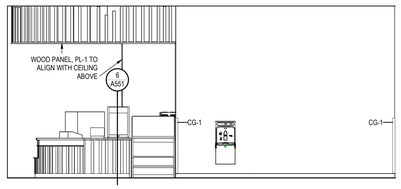
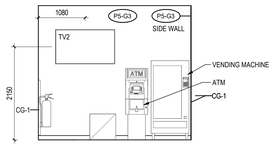


12 A527 **SOUTH CORRIDOR ZONE 1 - SOUTH 2**
1 : 50



13 A527 **RECYCLING / GARBAGE NOOK- EAST**
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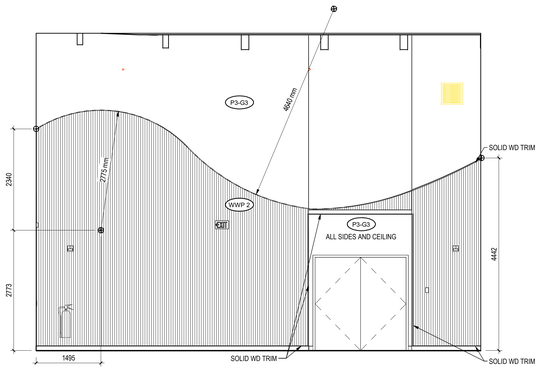
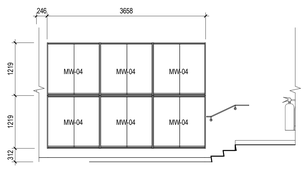


14 A527 **VESTIBULE/CORR - EAST**
1 : 50



15 A527 **WEST CORRIDOR ZONE 2 - WEST**
1 : 50

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Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.25
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	01/18/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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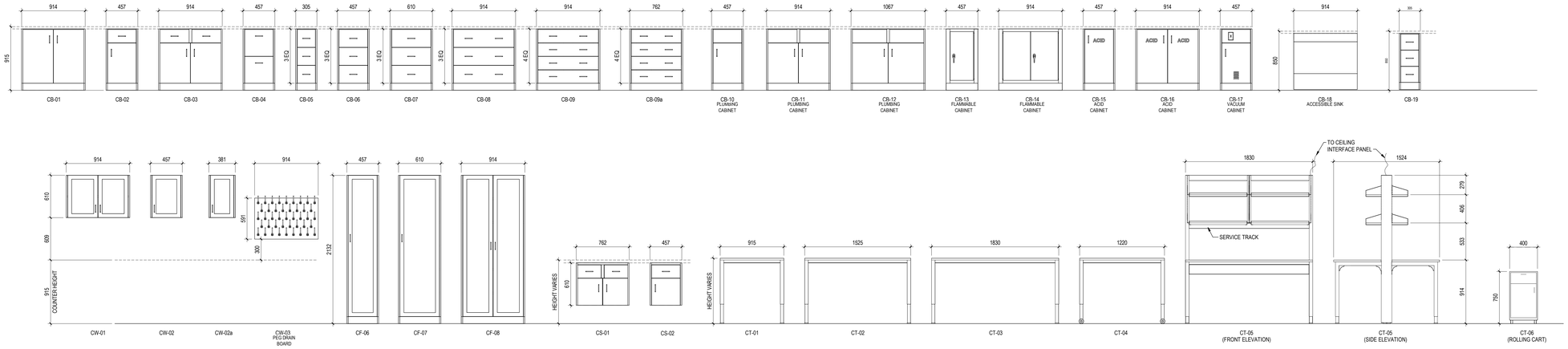
Client/Project
Yukon University
Polaris Project

Title
INTERIOR ELEVATIONS

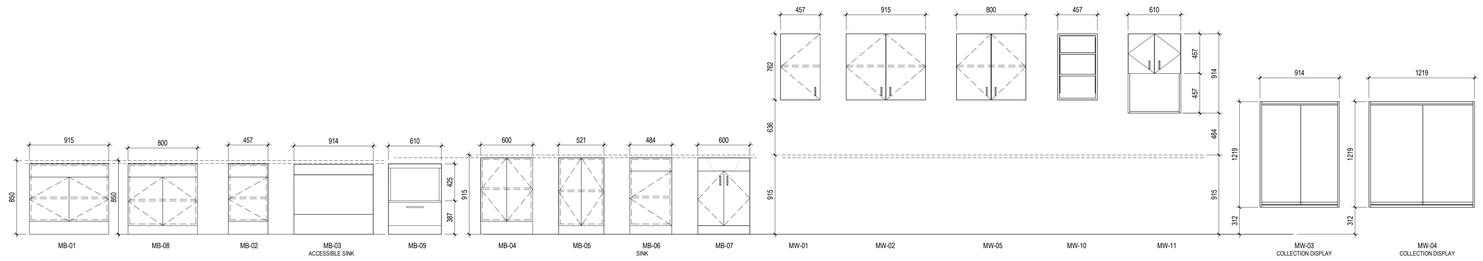
Project No. 144214760
Scale 1 : 50
Revision 5
Drawing No. **A527**

ORIGINAL SHEET - ISO A2

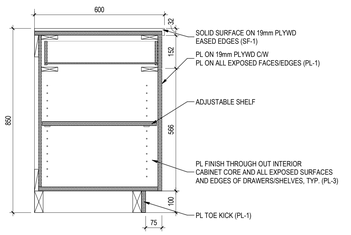


NOTE: FASTEN ALL CASEWORK AND CABINET TO PARTITION FRAMING, WOOD BLOCKING OR REINFORCEMENTS IN PARTITIONS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

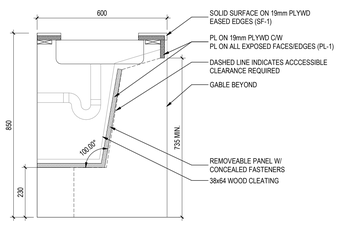
LABORATORY CASEWORK AND CABINET LEGEND



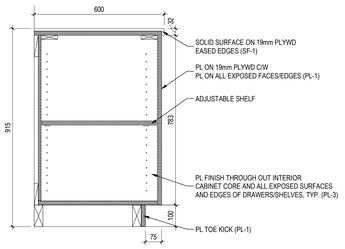
MILLWORK LEGEND



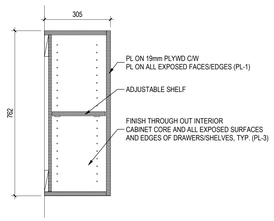
1 A550 **MB-01, MB-02 & MB-08** 1 : 10



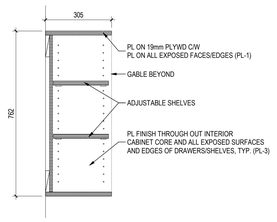
2 A550 **MB-03** 1 : 10



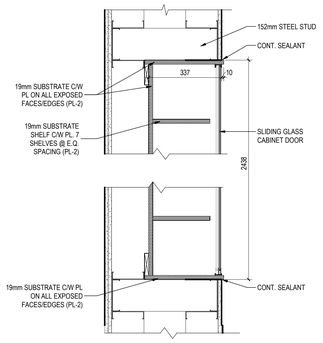
3 A550 **MB-04** 1 : 10



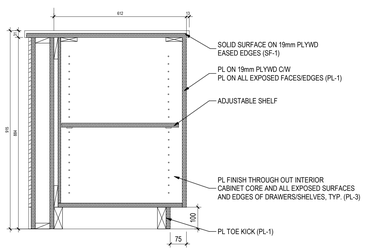
4 A550 **MW-01 & MW-02** 1 : 10



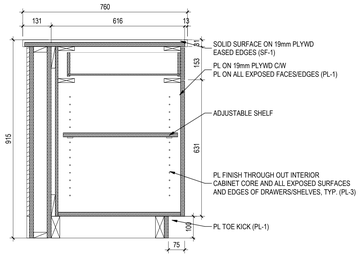
5 A550 **MW-10** 1 : 10



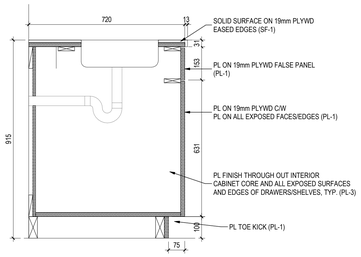
6 A550 **MW-03 & MW-04** 1 : 10



7 A550 **MB-05** 1 : 10



8 A550 **MB-06** 1 : 10



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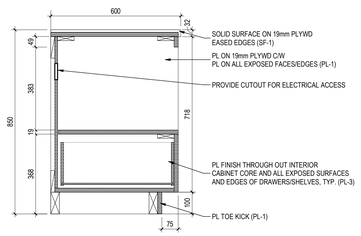
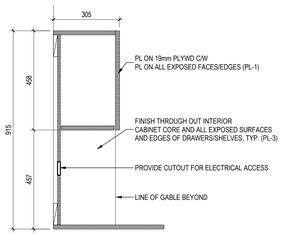


10 A550 **MB-09** 1 : 10



11 A550 **MW-11** 1 : 10

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Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
	Issued & Revision	By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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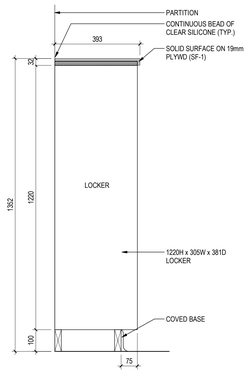
Client/Project
Yukon University
Polaris Project

Title
DETAILS - MILLWORK/CASEWORK LEGEND - KIT OF PARTS

Project No. 144214760
Scale As indicated
Revision 5
Drawing No. **A550**

ORIGINAL SHEET - ISO A0



1 A551 **SECT. DETAIL - LOCKER**
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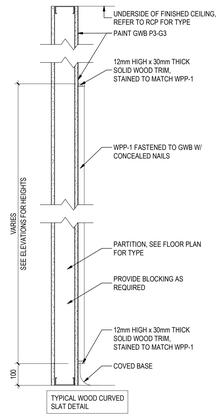

2 A551 **CURVED WOOD SLATS**
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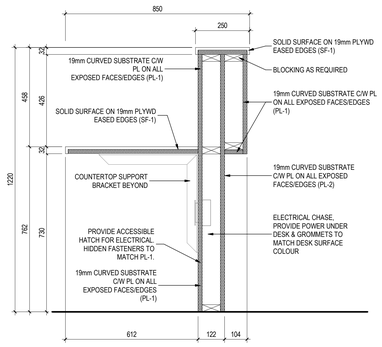

3 A551 **DETAIL - RECEPTION DESK**
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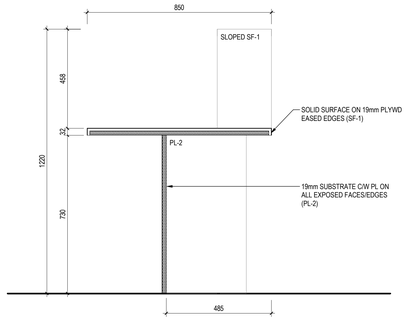

4 A551 **DETAIL - RECEPTION DESK ACCESSIBLE**
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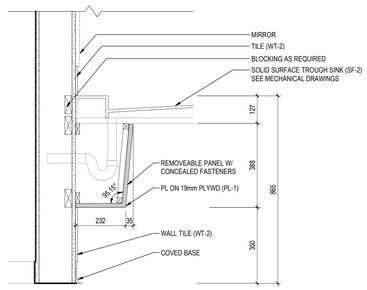

5 A551 **SECTION - ACCESSIBLE W/R SINK**
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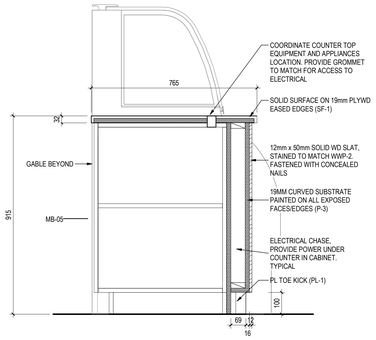

6 A551 **DETAIL - CAFE COUNTERTOP**
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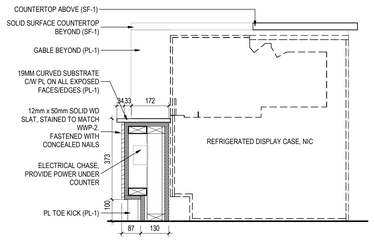

7 A551 **DETAIL - MILLWORK @ DISPLAY CASE**
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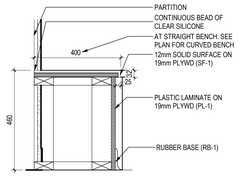

8 A551 **SECTION - BENCH**
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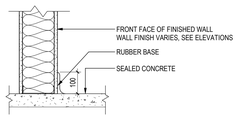

9 A551 **SEALED CONCRETE BASE DETAIL**
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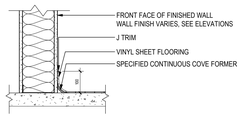
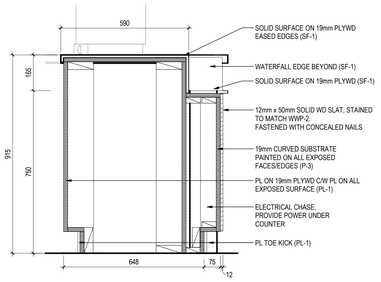


10 A551 **RESILIENT COVED BASE DETAIL**
1 : 10



11 A551 **DETAIL - CAFE CURVED**
1 : 10

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

5	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
4	ISSUED FOR TENDER	GV	CO	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
2	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
1	ISSUED FOR 70% SUBMISSION	GV	CO	2023.01.25
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
INTERIOR DETAILS

Project No. 144214760
Scale 1 : 10
Revision 5
Drawing No. **A551**

05/10/2024 11:34:18 AM

ORIGINAL SHEET - ISO A0

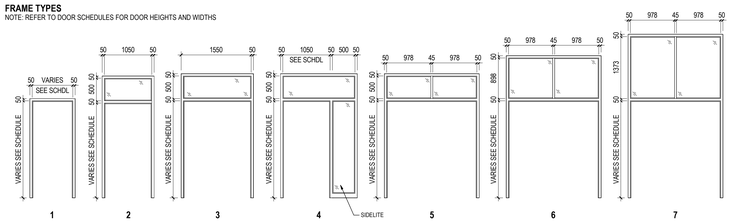
DOOR SCHEDULE

NO.	ROOM NAME	ROOM NO.	DOOR CLEAR DIM. WIDTH	DOOR CLEAR DIM. HEIGHT	NO. OF PANELS	PANEL WIDTHS 1 WIDTH	PANEL WIDTHS 2 WIDTH	THICKNESS	TYPE	MAT'L	FINISH	FRAME TYPE	FRAME MAT'L	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE LABEL	GLAZING	GLAZING STC	HDWR SET	COMMENTS
LEVEL 1																						
EXP1001.a	VESTIBULE	SB1001	2000	2150	2	1000	1000	44	FLD	ALUM	ANOD	7	ALUM	ANOD	1/A602	2/A602	1/A602	-	YES		002	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS, CARD READER, REMOVABLE MULLION
EXP1002.a	LECTURE HALL	SB1002	1100	2150	1	1100	0	45	F	IHM	P-2	1	PSF	P-3	3/A602	4/A602	3/A602	-	-		001	CARD READER
EXP1004.b	VESTIBULE	SB1004	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	4	ALUM	ANOD	1/A602	2/A602	1/A602	-			002	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS, CARD READER, REMOVABLE MULLION
EXP1009.a	CEREMONY RM	SB1009	1100	2150	1	1100	0	45	FLD	ALUM	ANOD	1	ALUM	ANOD				-	-		003	CARD READER
SB1001.a	CORRIDOR	SB1H001	2000	2150	2	1000	1000	44	FLD	ALUM	ANOD	7	ALUM	ANOD				-	YES		008	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS
SB1002.a	LECTURE HALL	SB1002	2100	2150	2	1050	1050	45	F	SCW	PL-1	1	PSIF	P-3		8/A602		-	-	STC 40	009	DOOR - HARDWARE TO ACCOMODATE STC
SB1004.a	LOUNGE/EVENT SPACE	SB1003	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	5	ALUM	ANOD				-	YES		008	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS
SB1005.a	STORAGE	SB1005	1500	2150	2	900	600	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	-		010	
SB1006.a	AV RM	SB1006	1500	2150	2	900	600	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	-		011	
SB1007.a	CAFE	SB1007	1000	2150	1	1000	0	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	-		012	
SB1008.a	KITCHENETTE	SB1008	1000	2150	1	1000	0	45	NL	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	-		012	
SB1009.a	CEREMONY RM	SB1009	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3	8/A602	8/A602		-	YES	STC 35	013	DOOR - HARDWARE TO ACCOMODATE STC
SB1012.a	KNOWLEDGE SHARING SPACE	SB1012	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3				-	YES	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1013.a	WC	SB1013	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1013.b	WC	SB1013	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1013.c	WC	SB1013	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		015	
SB1013.d	WC	SB1013	900	2150	1	900	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		015	
SB1014.a	JANITOR CLOSET	SB1014	1000	2150	1	1000	0	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		0			016	
SB1015.a	WC	SB1015	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1015.b	WC	SB1015	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1015.c	WC	SB1015	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1015.d	WC	SB1015	900	2150	1	900	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		015	
SB1016.a	CLASSROOM/MULTI-PURPOSE RM - SMALL	SB1016	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1017.a	CLASSROOM/MULTI-PURPOSE RM - SMALL	SB1017	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
LEVEL 2																						
EXP1H008.a	CORRIDOR	SB1H008	1100	2150	1	1100	0	45	F	IHM	P-2	1	PSF	P-3	3/A602	2/A602	3/A602	-	-		001	CARD READER
EXP1021.a	VESTIBULE	SB1021	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	5	ALUM	ANOD	1/A602	2/A602	1/A602	-	YES		002	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS, CARD READER,REMOVABLE MULLION
EXP1027.a	LOADING DOCK	SB1027	2000	2150	2	1000	1000	45	F	IHM	P-2	1	PSF	P-3	3/A602	2/A602	3/A602	-	-		004	DOOR VIEWER, CARD READER
EXP1029.a	VESTIBULE	SB1029	1200	2150	1	1200	0	45	F	IHM	P-2	1	PSF	P-3	3/A602	2/A602	3/A602	-	-		006	CARD READER
EXP1051.a	VESTIBULE	SB1051	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	6	ALUM	ANOD	1/A602	2/A602	1/A602	-	YES		002	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS, CARD READER, REMOVABLE MULLION
EXP1058.a	VESTIBULE	SB1058	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	6	ALUM	ANOD	1/A602	2/A602	1/A602	-	YES		002	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS, CARD READER, REMOVABLE MULLION
SB1H009.a	CORRIDOR	SB1H005	2000	2150	2	1000	1000	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		45	-		007	CARD READER
SB1018.a	CLASSROOM/MULTI-PURPOSE RM - SMALL	SB1018	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE
SB1019.a	CLASSROOM/MULTI-PURPOSE RM - LARGE	SB1019	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE
SB1021.a	CORRIDOR	SB1H004	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	5	ALUM	ANOD				-	YES		008	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS
SB1022.a	DRY LAB	SB1022	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1022.b	DRY LAB	SB1022	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1023.a	SPECIMEN WORKSHOP/LAB	SB1023	1400	2150	2	1000	400	45	NL	HM	P-2	1	PSIF	P-3	8/A602	8/A602		-	YES	STC 35	017	DOOR - HARDWARE TO ACCOMODATE STC
SB1024.a	COLLECTION STORAGE SPACE	SB1024	1400	2150	2	1000	400	45	NL	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	YES		018	
SB1025.a	RESEARCH & MULTI-USE LAB	SB1025	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	012	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1026.a	WET LAB - CHEMISTRY	SB1026	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	019	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1026.b	WET LAB - CHEMISTRY	SB1026	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3				-	YES	STC 35	019	DOOR - HARDWARE TO ACCOMODATE STC
SB1026.c	WET LAB - CHEMISTRY	SB1026	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	019	DOOR - HARDWARE TO ACCOMODATE STC
SB1028.a	MECHANICAL RM	SB1028	2000	2150	2	1000	1000	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		45	-		020	
SB1028.a	MECHANICAL RM	SB1028	2000	2150	2	1000	1000	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		45	-		020	
SB1030.a	VESTIBULE	SB1029	2000	2150	2	1000	1000	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		45	-		020	
SB1030.b	EMERGENCY DISTRIBUTION RM	SB1030A	1000	2150	1	1000	0	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		-	-		021	
SB1031.a	VESTIBULE	SB1029	1200	2150	1	1200	0	45	F	HM	P-2	1	PSF	P-3	8/A602	8/A602		45	-		022	
SB1032.a	WET PREPARATION ROOM	SB1032	1500	2150	2	1000	500	45	F	SCW	PL-1	3	PSIF	P-3				-	YES	STC 35	017	DOOR - HARDWARE TO ACCOMODATE STC
SB1032.b	WET PREPARATION ROOM	SB1032	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1032.c	WET PREPARATION ROOM	SB1032	1500	2150	2	1000	500	45	F	SCW	PL-1	3	PSIF	P-3				-	YES	STC 35	017	DOOR - HARDWARE TO ACCOMODATE STC
SB1034.a	WET LAB - BIOLOGY	SB1034	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	023	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1035.a	OFFICE	SB1035	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1036.a	OFFICE	SB1036	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1037.a	OFFICE	SB1037	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1038.a	OFFICE	SB1038	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1039.a	INSTRUMENTS LAB	SB1039	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	023	DOOR - HARDWARE TO ACCOMODATE STC
SB1040.a	OFFICE	SB1040	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1041.a	DRY LAB	SB1041	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	023	CARD READER, DOOR - HARDWARE TO ACCOMODATE STC
SB1043.a	CORRIDOR	SB1H007	1000	2150	1	1000	0	45	F	PSF	P-2	1	PSF	P-3	8/A602	8/A602		0			016	DOOR - HARDWARE TO ACCOMODATE STC
SB1044.a	OFFICE	SB1044	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1045.a	OFFICE	SB1045	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3				-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1049.a	OFFICE	SB1049	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3				-	YES	STC 30	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1051.a	CORRIDOR	SB1H006	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	5	ALUM	ANOD				-	YES		008	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS
SB1052.a	WC	SB1052	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1052.b	WC	SB1052	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1052.c	WC	SB1052	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1052.d	WC	SB1052	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1052.e	WC	SB1052	850	2150	1	850	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1052.f	WC	SB1052	900	2150	1	900	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		015	
SB1052.g	WC	SB1052	900	2150	1	900	0	45	F	HM	P-2	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1053.a	MEETING ROOM	SB1053	1050	2150	1	1050	0	45	F	SCW	PL-1	2	PSIF	P-3		8/A602		-	YES	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1054.a	DRY PREPARATION ROOM	SB1054	1500	2150	2	1000	500	45	F	SCW	PL-1	3	PSIF	P-3				-	YES	STC 35	017	DOOR - HARDWARE TO ACCOMODATE STC
SB1054.b	DRY PREPARATION ROOM	SB1054	1050	2150	1	1050	0	45	F	SCW	PL-1	4	PSIF	P-3		8/A602		-	YES	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1055.a	WC - UNIVERSAL	SB1055	1000	2150	1	1000	0	45	F	SCW	PL-1	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1056.a	WC - UNIVERSAL	SB1056	1000	2150	1	1000	0	45	F	SCW	PL-1	1	PSF	P-3	8/A602	9/A602		-	-		014	
SB1057.a	NETWORK & SECURITY RM	SB1057	1000	2150	1	1000	0	45	F	HM	P-2	1	PSIF	P-3	8/A602	8/A602		45	-	STC 35	012	DOOR - HARDWARE TO ACCOMODATE STC
SB1058.a	CORRIDOR	SB1H005	2000	2150	2	1000	1000	45	FLD	ALUM	ANOD	6	ALUM	ANOD				-	YES		008	POWER DOOR OPERATOR REQUIRED TO MEET ACCESSIBILITY STANDARDS
U/S DECK LOWER ROOF																						
EXP1028.a			900		N/A	0	0	0	N/A	N/A		N/A		N/A	5/A511	5/A511	5/A511	N/A	N/A		005	ROOF ACCESS HATCH C/W TELESCOPING SAFETY POST

NOTE: ALL DOOR FRAMES TO BE PAINTED P3-G5 UNLESS NOTED OTHERWISE.

FRAME TYPES

FRAME TYPES
NOTE: REFER TO DOOR SCHEDULES FOR DOOR HEIGHTS AND WIDTHS



TRANSOM AND SIDELIGHT GLAZING:

- STC 30 GLAZING:
  - 3mm GLASS PANE
  - 9mm AIR GAP
  - 3mm GLASS PANE
- STC 35 GLAZING:
  - 5mm GLASS PANE
  - 25mm AIR GAP
  - 5mm GLASS PANE

THE USE A GLAZING WITH THE SAME STC RATING AS THE DOOR ON WHICH IT IS MOUNTED ON. IN THE FOLLOWING, GLAZING COMPOSITIONS ARE PRESENTED SO TO REACH THE STC RATING OF THE SUGGESTED DOORS:

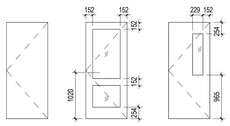
- FOR STC 30 DOOR: 6mm THICK SINGLE GLASS PANE.
- FOR STC 35 DOOR: 10mm THICK SINGLE GLASS PANE OR 8mm THICK LAMINATED SINGLE GLASS PANE.
- FOR STC 40 DOOR: 10mm THISCK LAMINATED SINGLE GLASS PANE OR A DOUBLE PANE ASSEMBLY INCLUDING 8mm THICK LAMINATED GLASS PANE + 16mm AIR GAP + 8mm THICK GLASS PANE.

LEGEND

ALUM	ALUMINUM
ANOD	ANODIZED
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
P	PAINT
PL	PLASTIC LAMINATE
PSIF	INSULATED PRESSED STEEL FRAME
PSF	PRESSED STEEL FRAME
SCW	SOLID CORE WOOD

DOOR PANEL TYPES

DOOR PANEL TYPES
NOTE: REFER TO DOOR SCHEDULES FOR DOOR HEIGHTS AND WIDTHS



F
FLUSH

FLD
FULL GLASS DIVIDED LITE

NL
NARROW LITE

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

4	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
3	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	06/16/17
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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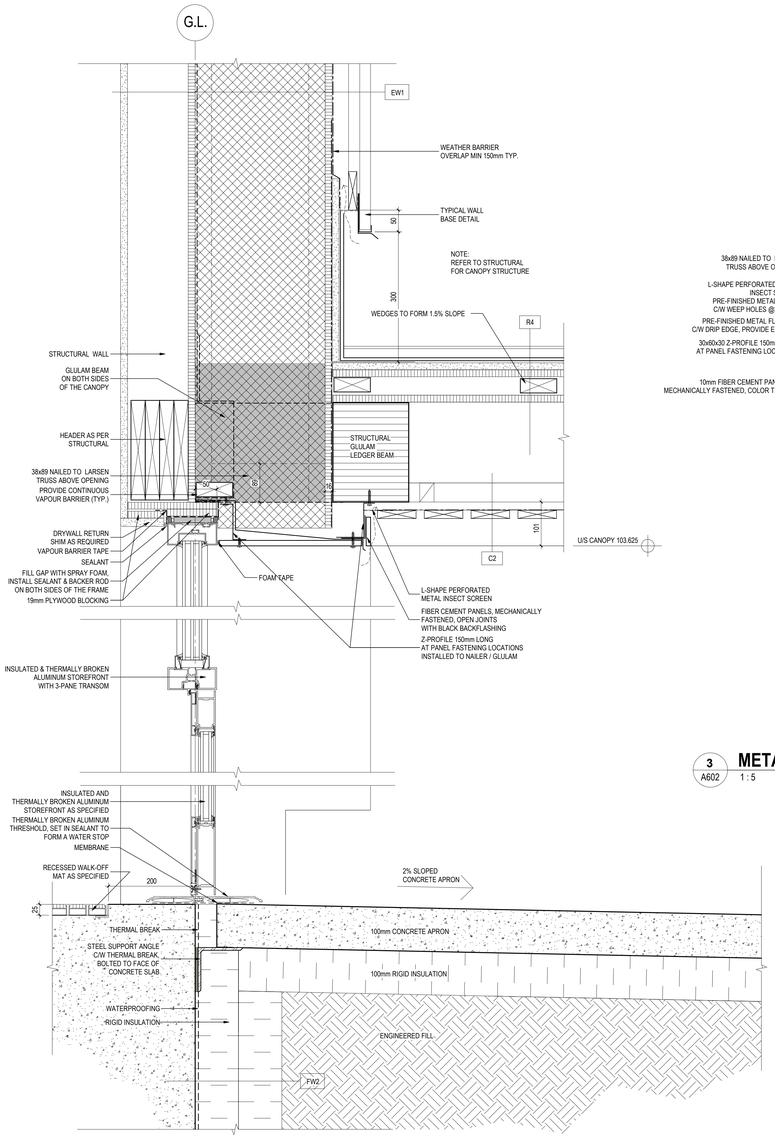
Client/Project
Yukon University
Polaris Project

Title
DOOR SCHEDULES

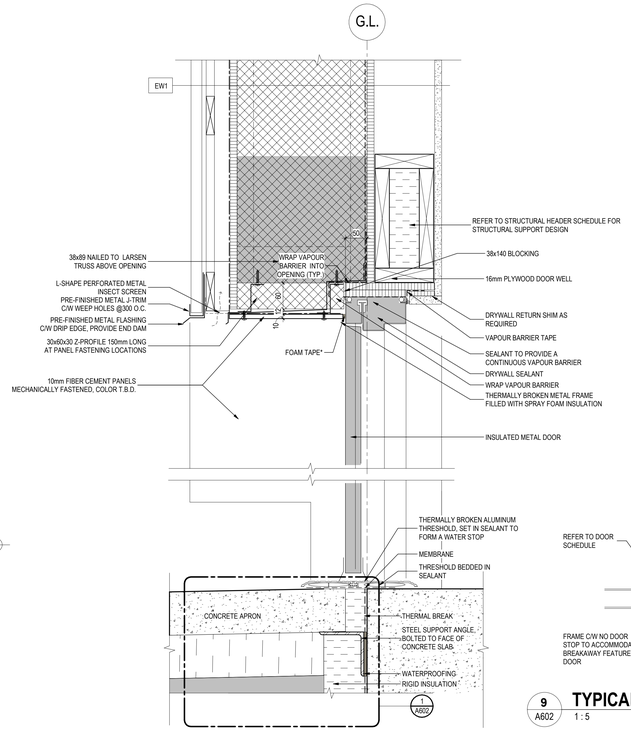
Project No. 144214760
Scale 1 : 48
Revision 6
Drawing No. **A600**

10/4/2024 11:24:22 AM

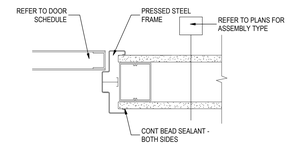
ORIGINAL SHEET - ISO A2



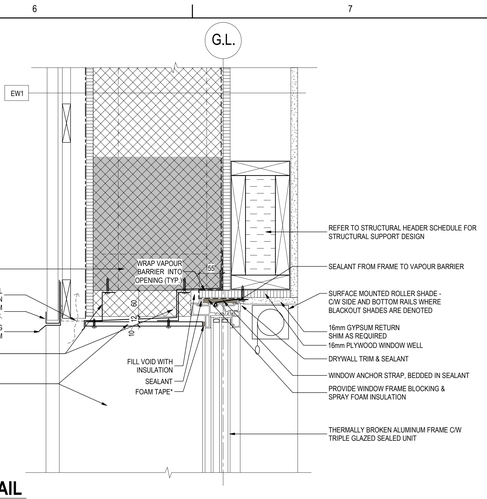
1 A602 ALUMINUM DOOR SECTION
1 : 5



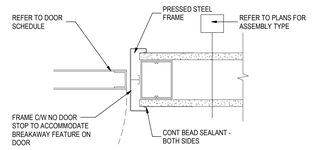
3 A602 METAL DOOR SECTION
1 : 5



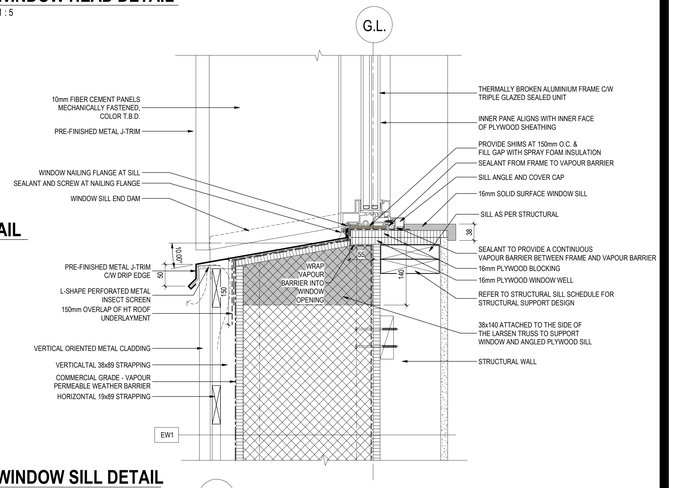
8 A602 METAL INTERIOR DOOR DETAIL
1 : 5



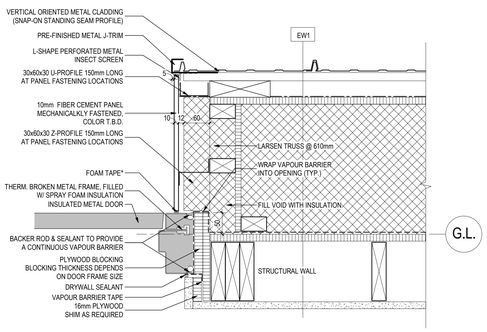
5 A602 WINDOW HEAD DETAIL
1 : 5



9 A602 TYPICAL WASHROOM STALL DOOR DETAIL
1 : 5

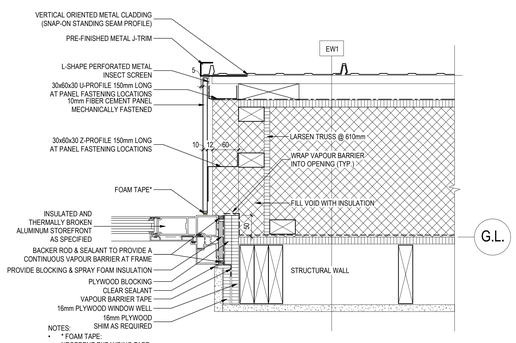


6 A602 WINDOW SILL DETAIL
1 : 5



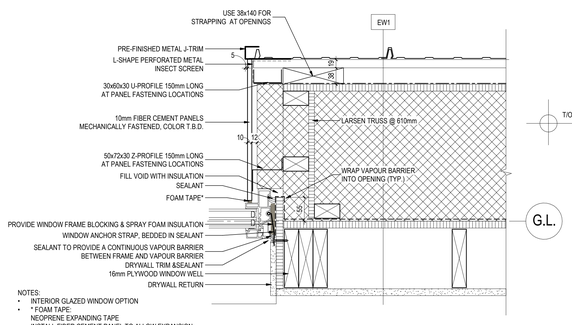
NOTES:
- * FOAM TAPE: NEOPRENE EXPANDING TAPE INSTALL FIBER CEMENT PANELS TO ALLOW EXPANSION (RONA CLIMALOC OR SIMILAR)

4 A602 METAL DOOR JAMB
1 : 5

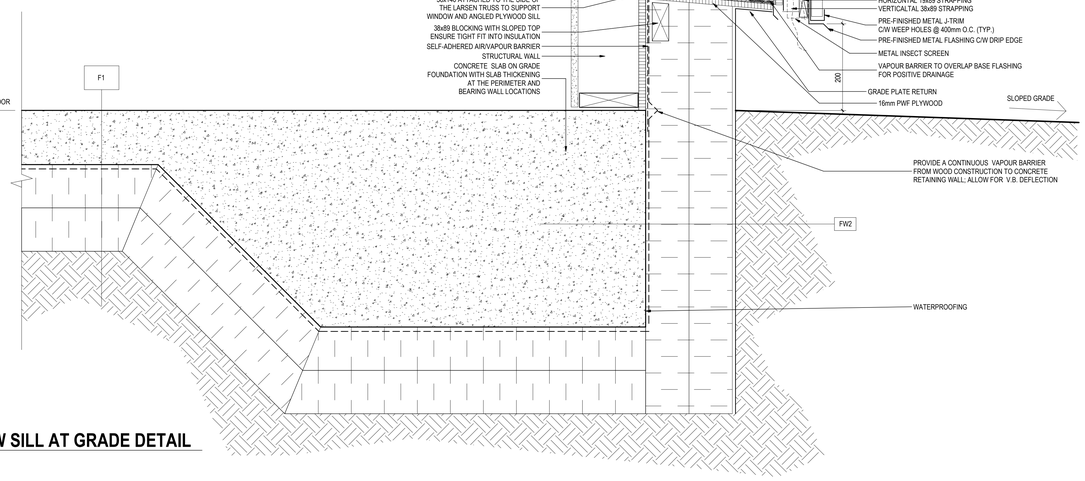


NOTES:
- * FOAM TAPE: NEOPRENE EXPANDING TAPE INSTALL FIBER CEMENT PANELS TO ALLOW EXPANSION (RONA CLIMALOC OR SIMILAR)
- WRAP VAPOUR BARRIER INTO OPENING

2 A602 ALUMINUM DOOR JAMB
1 : 5



7 A602 WINDOW JAMB DETAIL
1 : 5



10 A602 WINDOW SILL AT GRADE DETAIL
1 : 5

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202-107 Main Street
Whitehorse, YT Y1A 2A7
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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.14

Issued & Revision

File Name: N/A	Author	Designer	Checker	12/13/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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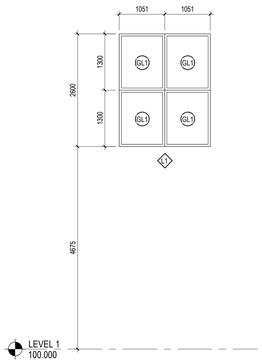
Client/Project
Yukon University
Polaris Project

Title
WINDOW & DOOR DETAILS

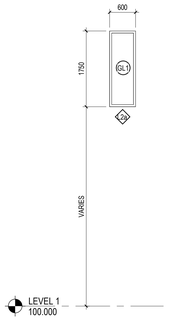
Project No.	Scale
144214760	1 : 5
Revision	Drawing No.
6	A602

ORIGINAL SHEET - ISO A0



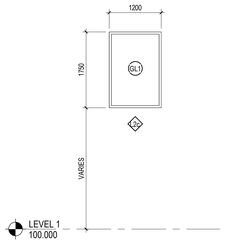
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

1 A603 L1 - EXT GLAZING
1 : 50



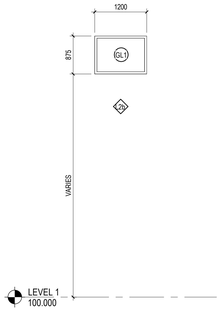
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

2 A603 L2a - EXT GLAZING
1 : 50



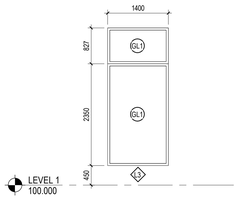
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

3 A603 L2b - EXT GLAZING
1 : 50



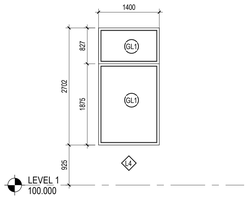
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

4 A603 L2c - EXT GLAZING
1 : 50



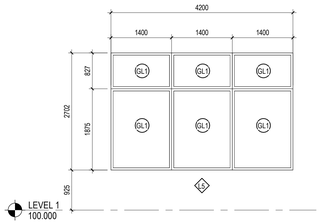
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

5 A603 L3 - EXT GLAZING
1 : 50



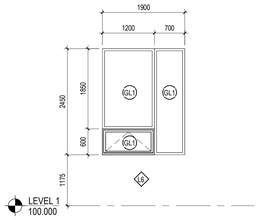
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

6 A603 L4 - EXT GLAZING
1 : 50



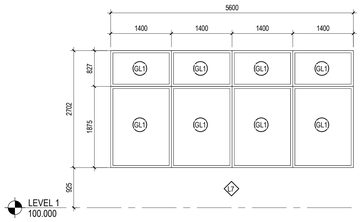
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

7 A603 L5 - EXT GLAZING
1 : 50



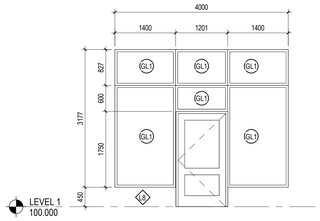
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

8 A603 L6 - EXT GLAZING
1 : 50



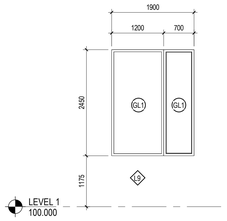
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

9 A603 L7 - EXT GLAZING
1 : 50



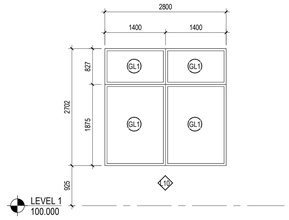
ALUMINUM FRAME - CLEAR ANODIZED

10 A603 L8 - EXT GLAZING
1 : 50



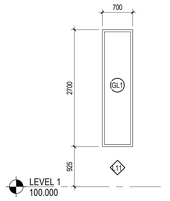
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

11 A603 L9 - EXT GLAZING
1 : 50



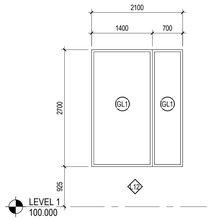
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

12 A603 L10 - EXT GLAZING
1 : 50



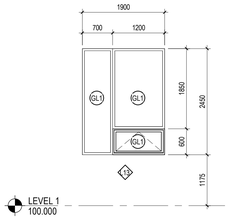
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

13 A603 L11 - EXT GLAZING
1 : 50



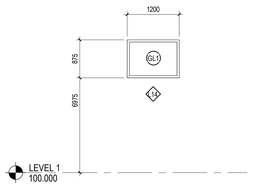
FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

14 A603 L12 - EXT GLAZING
1 : 50



FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

15 A603 L13 - EXT GLAZING
1 : 50



FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

16 A603 L14 - EXT GLAZING
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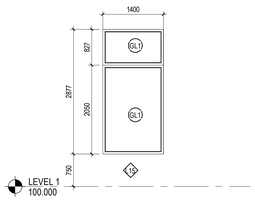

FIBERGLASS FRAME - COLOUR GRAY
TO MATCH CLEAR ANODIZED

17 A603 L15 - EXT GLAZING
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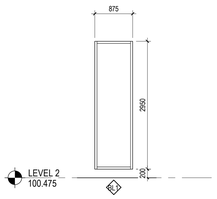
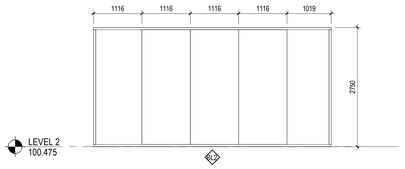


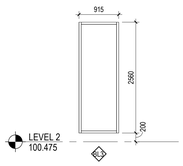
PRESSED STEEL FRAME

18 A603 L1 - INT GLAZING
1 : 50 STC 45 (RM SB1026 ONLY)



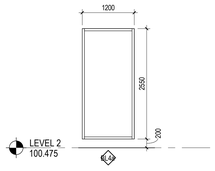
ALUMINUM FRAME - SILICONE JOINTS

19 A603 L2 - INT GLAZING
1 : 50 STC 45



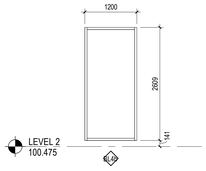
PRESSED STEEL FRAME

20 A603 L3 - INT GLAZING
1 : 50 STC 45



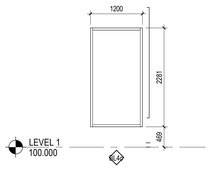
PRESSED STEEL FRAME

21 A603 L4a - INT GLAZING
1 : 50 STC 45



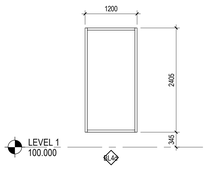
PRESSED STEEL FRAME

22 A603 L4b - INT GLAZING
1 : 50 STC 45



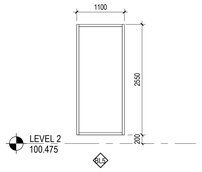
PRESSED STEEL FRAME

23 A603 L4c - INT GLAZING
1 : 50 STC 45



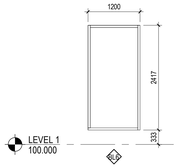
PRESSED STEEL FRAME

24 A603 L4d - INT GLAZING
1 : 50 STC 45



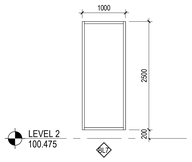
PRESSED STEEL FRAME

25 A603 L5 - INT GLAZING
1 : 50 STC 45



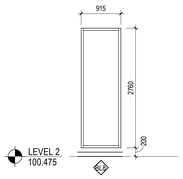
PRESSED STEEL FRAME

26 A603 L6 - INT GLAZING
1 : 50 STC 45



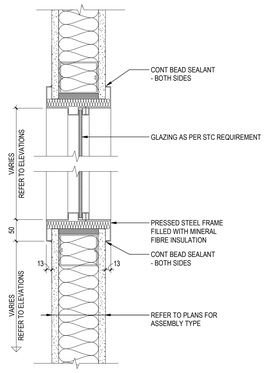
PRESSED STEEL FRAME

27 A603 L7 - INT GLAZING
1 : 50 STC 30
STC 45 (RM SB1053 ONLY)

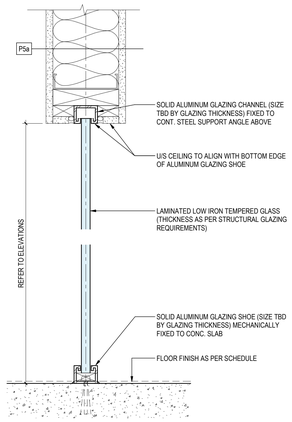


PRESSED STEEL FRAME

28 A603 L8 - INT GLAZING
1 : 50 STC 45



29 A603 TYPICAL FRAMED INT GLAZING DETAIL
1 : 5



30 A603 BL2 - INT GLAZING DETAIL
1 : 5

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

GLAZING LEGEND

GL1 - EXTERIOR INSULATED GLAZING UNIT FOR EXTERIOR WINDOWS AND DOORS
- 6 CLEAR TEMPERED GLASS
- 6 SPACER C/W ARGON
- 6 CLEAR TEMPERED GLASS
- 6 SPACER C/W ARGON
- 6 CLEAR TEMPERED GLASS

GENERAL NOTES
1. CONFIRM WINDOW DIMENSIONS ON SITE
2. ALL WINDOWS ARE TO BE TRIPLE GLAZED REGARDLESS OF DETAILS SHOWING DOUBLE GLAZED UNITS.
3. REFER TO FINISHES FLOOR PLAN FOR GLAZING FILM LOCATIONS (GL-#) ON ALL BORROWED LIGHTS (BL#)

NOTE: ALL PRESSED STEEL WINDOW FRAMES TO BE PAINTED P3-G5 UNLESS NOTED OTHERWISE.

INTERIOR GLAZING:

- STC 30 GLAZING:
  - 3mm TEMPERED GLASS PANE
  - 9mm AIR GAP
  - 3mm TEMPERED GLASS PANE
- STC 35 GLAZING:
  - 5mm TEMPERED GLASS PANE
  - 25mm AIR GAP
  - 5mm TEMPERED GLASS PANE
- STC 45 GLAZING:
  - 6mm LAMINATED GLASS PANE
  - 25mm AIR GAP
  - 5mm TEMPERED GLASS PANE
- NON STC INTERIOR GLAZING:
  - 6mm TEMPERED GLASS WITH NO INSULATED FRAME

6	RE-ISSUED FOR TENDER	GV	CO	2024.09.30
5	ISSUED FOR TENDER	GV	CO	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	GV	CO	2024.03.15
3	ISSUED FOR 90% SUBMISSION	GV	CO	2024.02.07
2	ISSUED FOR 75% SUBMISSION	GV	CO	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	GV	CO	2022.12.16
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
WINDOW ELEVATIONS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **A603**

ORIGINAL SHEET - ISO A0

DESIGN NOTES

GENERAL

1. STRUCTURAL DESIGN TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2020 AND THE NATIONAL BUILDING CODE 2020 STRUCTURAL COMMENTARIES (PART 4).
2. ALL CODES REFERENCED IN DESIGN NOTES ARE TO BE THE VERSION LISTED PER THE NATIONAL BUILDING CODE 2020 DIVISION B PART 1 UNLESS NOTED OTHERWISE.
3. READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
4. CONSTRUCT THE STRUCTURE TO THE INTENT OF THE DRAWINGS. PROVIDE FOR THE INTENT OF THE DESIGN AND LAYOUT CONSIDERING ARCHITECTURAL, STRUCTURAL AND OTHER CONSULTANT INFORMATION. EXTRA CHARGES THAT ARE REQUESTED FOR CONSTRUCTION OF ITEMS THAT COMPLETE OR EXTEND THE DETAIL OF THE STRUCTURE BUT DO NOT CHANGE THE INTENT OF DESIGN WILL NOT BE GRANTED. WHEN IN DOUBT ALLOW FOR THE MORE ONEROUS ALTERNATIVE AND STATE ANY ASSUMPTIONS MADE.
5. USE THESE DRAWINGS ONLY FOR THE PURPOSES SPECIFICALLY NOTED IN THE REVISION COLUMN. DO NOT CONSTRUCT BY THESE DRAWINGS UNLESS INDICATED: "FOR CONSTRUCTION".
6. THE ARCHITECT IS PRIME CONSULTANT AND REGISTERED COORDINATING PROFESSIONAL FOR THE PROJECT AND IS RESPONSIBLE FOR GENERAL COORDINATION OF THE DRAWINGS. DISCREPANCIES AND INCOMPATIBILITIES IN THE DRAWINGS SHALL BE REPORTED TO THE PRIME CONSULTANT. ALL CORRESPONDENCE SHOULD BE SUBMITTED OR DUPLICATED TO THE PRIME CONSULTANT WITHOUT DELAY.
7. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR GRADES, FLOOR AND ROOF ELEVATIONS, DEPRESSIONS AND SLOPES, AND FOR DIMENSIONS AND LOCATIONS OF DOORS, WINDOWS, LOUVERS, RECESSES, SLEEVES, WINDOW WASHING ANCHORAGE AND SYSTEMS, EQUIPMENT, SHAFTS, INSERTS, NAILERS, CHAMFERS, AND SIMILAR ITEMS. GRADES, ELEVATIONS AND SLOPES SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED BY THE CONTRACTOR. MAINTAIN STRUCTURAL THICKNESS INDICATED. SLOPES FOR DRAINAGE REQUIREMENTS MUST BE OBTAINED FROM THE ARCHITECT.
8. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND REQUIREMENTS RELATING TO FIRE RATINGS, FIRE STOPPING, SMOKE SEALING REQUIREMENTS, ETC.
9. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL ASPECTS OF WATERPROOFING, SEALING, JOINTING, TAPING, AIR BARRIER, FLASHING, VENTING, AND SIMILAR REQUIREMENTS FOR BUILDING CONSTRUCTION.
10. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR NON-STRUCTURAL CONCRETE INCLUDING ELEMENTS NOT FORMING PART OF THE PRIMARY STRUCTURE, FLOOR TOPPINGS NOT FORMING PART OF THE STRUCTURAL FLOOR, EXTERIOR FINISH MATERIALS INCLUDING LANDSCAPING MATERIALS AND SIDEWALKS, ETC. SOME NON-STRUCTURAL CONCRETE MAY BE SHOWN FOR CONVENIENCE ONLY AND MUST BE CONFIRMED WITH ARCHITECTURAL DRAWINGS.
11. WHERE NOTED HEREIN, THE TERM CONTRACTOR, GENERAL CONTRACTOR OR GC SHALL ALSO REFER TO THE PROJECT CONSTRUCTION OR CONTRACTS MANAGER.
12. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND OUTLINES WITH THE ARCHITECTURAL DRAWINGS AND NOTIFY ANY ERRORS OR OMISSIONS PRIOR TO COMMENCING WITH WORK. DISCREPANCIES NOT REPORTED ARE THE RESPONSIBILITY OF THE CONTRACTOR(S).
13. THE CONTRACTOR(S) SHALL REVIEW ALL AVAILABLE INFORMATION FOR TENDER AND, WHERE CONFLICT, DISCREPANCIES OR OMISSIONS OCCUR, INCLUDE THE MORE ONEROUS IN THE TENDER OR NOTIFY THE CONSULTANT FOR CLARITY.
14. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS IN THE FIELD TO SUIT EXISTING CONDITIONS. CONTRACTOR SHALL SITE MEASURE AND CONTROL THE PRODUCTION OF WORK ON SITE AND ELSEWHERE TO FULFILL THE INTENT OF THE DRAWINGS. NOTIFY THE CONSULTANT OF ANY DIMENSIONAL VARIATION FROM THE PLANS.
15. CONTRACTOR(S) SHALL RECORD AND REPORT ANY SITE CONDITIONS WHICH MAY AFFECT THE STRUCTURE (BUILDINGS, BUILDING COMPONENTS, PROPERTY LINES, SOIL CONDITIONS, ETC.).
19. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
20. 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.
21. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
22. NOTIFY THE CONSULTANT A MINIMUM OF 2 BUSINESS DAY(S) IN ADVANCE FOR FIELD REVIEW & OBSERVATION OF THE FOLLOWING ELEMENTS:
    1. REINFORCING STEEL: BEFORE EACH POUR
    2. MASONRY & REINFORCING STEEL: BEFORE EACH POUR
    3. WOOD FRAMING: BEFORE COVERING UP
    4. STEEL DECKING: BEFORE COVERING UP
    5. STRUCTURAL STEEL: BEFORE COVERING UP OR LOADING
    6. LIGHT GAUGE STEEL FRAMING: BEFORE COVERING UP

EXISTING STRUCTURES

1. SHORE AND UNDERPIN EXCAVATIONS AS REQUIRED TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.
2. NEW MECHANICAL ELEMENTS IN THE EXISTING CAMPUS BUILDINGS HAVE BEEN REVIEWED BY THE STRUCTURAL CONSULTANT. REVIEW WAS BASED ON INFORMATION GATHERED FROM THE RECORD DRAWINGS AND FROM LIMITED VISUAL OBSERVATIONS ON SITE.
3. NOTIFY THE CONSULTANT OF ANY SITE CONDITIONS THAT DIFFER FROM THE CONTRACT DOCUMENTS OR THE RECORD DRAWINGS.
4. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO IMPLEMENTING AFFECTED WORK.
5. PROVIDE PROTECTION TO ALL EXISTING STRUCTURES AND SURFACES WHICH ARE TO REMAIN AS PART OF THE FINISHED WORK TO THE SATISFACTION OF THE CONSULTANT.
6. PERMITTED STRUCTURAL MODIFICATIONS TO THE EXISTING BUILDINGS INCLUDE:
    1. NEW MECHANICAL EQUIPEMENT ON THE LOWER LEVEL AND MAIN LEVEL SLAB IN THE ENERGY CENTER.
    2. NEW OPENING IN WOOD ROOF DECK OF ENERGY CENTER FOR NEW FLUE. REFER TO SECTION 3 ON S004.
    3. NEW DUCTWORK AND FLUE IN ENERGY CENTER TO BE SUPPORTED OFF EXISTING GLULAM ROOF STRUCTURE AND/OR EXISTING MAIN LEVEL SUSPENDED SLAB. REFER TO DELEGATED DESIGN NOTES FOR FURTHER REQUIREMENTS.
    4. NEW PENETRATIONS IN EXISTING NON-LOAD BEARING BLOCK WALLS PER SECTION 14 ON S003.
    5. NEW CORING IN ACADEMIC WING FLOOR. PRIOR TO CORING, CONTRACTOR SHALL SCAN THE EXISTING SLAB, MARK EXISING REBAR LOCATIONS AND DEPTHS ON THE SLAB, MARK THE PROPOSED CORE LOCATIONS (LOCATED TO MISS EXISTING REBAR) AND SUBMIT DOCUMENTATION TO THE CONSULTANT FOR REVIEW. CORING MAY ONLY PROCEED ONCE CONSULTANT PROVIDES WRITTEN AUTHORIZATION TO PROCEED.

    NO OTHER MODIFICATIONS TO THE EXISTING STRUCTURE ARE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL CONSULTANT.

DESIGN LOADS

1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
2. CLIMATIC INFORMATION:
    1. SNOW AND RAIN

Ss:	2.0 kPa
Sr:	0.1 kPa
One Day Rain:	43 mm

    2. SEISMIC:

Sa(0.2, XD):	0.548	SITE CLASS:	D
Sa(0.5, XD):	0.619	PGA (XD):	0.221
Sa(1.0, XD):	0.451		
Sa(2.0, XD):	0.291		
Sa(5.0, XD):	0.125		
Sa(10.0, XD):	0.069		

    3. WIND:

q 1/10:	0.29 kPa
q 1/50:	0.39 kPa

    4. IMPORTANCE FACTORS:

	ULS	SLS
Ie:	1	N/A
Iw:	1	0.75
Is:	1	0.9

3. SITE INFORMATION:
    1. IMPORTANCE CATEGORY: NORMAL
    2. WIND EXPOSURE TYPE: OPEN TERRAIN
    3. INTERNAL PRESSURE CATEGORY: 2
4. DESIGN LOADS:

DESIGN LOADS	
FIRST FLOOR (SLAB ON GRADE)	
SUPERIMPOSED DEAD LOAD (INCLUDES 1.0 PARTITION LOAD)	1.5 kPa
LIVE LOAD	4.8 kPa
LIVE LOAD MECHANICAL ROOM	7.2 kPa
ROOFS	
SUPERIMPOSED DEAD LOAD*	1.5 kPa
BASIC SNOW LOAD	1.7 kPa
ACCUMULATED SNOW LOAD	REFER TO PLANS
RAIN PONDING LOAD	REFER TO PLANS
NET FACTORED WIND UPLIFT LOAD	REFER TO PLANS
ROOF OVER MECHANICAL ROOM	
SUPERIMPOSED DEAD LOAD	2.0 kPa
BASIC SNOW LOAD	1.7 kPa
ACCUMULATED SNOW LOAD	REFER TO PLANS
RAIN PONDING LOAD	REFER TO PLANS
NET FACTORED WIND UPLIFT LOAD	REFER TO PLANS
WALL CLADDING DEAD LOADS	
TYPICAL WALL	1.0 kPa
*INCLUDES 0.5kPa FOR FUTURE SOLAR PANEL ALLOWANCE	

5. LATERAL LOADS:
    1. LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE FOLLOWING COMBINATION OF ELEMENTS: MODERATELY DUCTILE CHEVRON AND TENSION ONLY BRACED FRAMES AND TIMBER SHEAR WALLS.

2. THE ULTIMATE LIMITE STATE (ULS) FACTORED LATERAL WIND LOAD IN EACH ORTHOGONAL DIRECTION:	Vx (kN)	175 kN
	Vy (kN)	270 kN
3. THE ULTIMATE LIMITE STATE (ULS) LATERAL SEISMIC BASE SHEAR IN EACH ORTHOGONAL DIRECTION:	Vx (kN)	1842 Kn
	Vy (kN)	1842 kN
	T(a)	0.216 SECONDS

6. FORCE MODIFICATION FACTORS:

LATERAL LOAD RESISTANCE SYSTEM	MODIFICATION FACTOR	
	DUCTILITY RELATED, R D	OVERSTRENGTH RELATED, R O
CONVENTIONAL CONSTRUCTION OF BRACED FRAMES	1.5	1.3
NAILED TIMBER SHEAR WALLS WITH WOOD-BASED PANELS	3	1.7

7. CONSTRUCTION LOADS INCLUDING SHORING AND RESHORING, PEOPLE AND EQUIPMENT, ETC. SHALL NOT EXCEED THE DESIGN LIVE LOADS NOTED ON THE DRAWINGS.
8. RAIN PONDING LOADS HAVE BEEN CALCULATED BASED ON ROOF SLOPES, PARAPETS, AND SCUPPERS ASSUMING THAT DRAINS ARE ACCIDENTALLY PLUGGED FOR A PERIOD OF 24 HOURS.
9. WHERE PERMISSIBLE, LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH NATIONAL BUILDING CODE 2020.

DELEGATED DESIGN

1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR AND/OR TRADE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER TO COMPLETE THE DESIGN AND FIELD REVIEW WHO IS REGISTERED IN THE YUKON.
2. THE SPECIALTY ENGINEER RESPONSIBLE FOR COMPLETING THE WORK SHALL SUBMIT A LETTER OF CONFIRMATION OF PROFESSIONAL ASSURANCE DESIGN AND COMMITMENT FOR FIELD REVIEW PRIOR TO STARTING WORK. THE LETTER OF ASSURANCE AND COMMITMENT SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE YUKON.
3. THE SPECIALTY ENGINEER SHALL NOTIFY THE CONSULTANT IN WRITING IF THEIR RESPONSIBILITY IS TERMINATED AT ANYTIME DURING THE COURSE OF DESIGN OR CONSTRUCTION.
4. AT COMPLETION OF WORK, THE SPECIALTY ENGINEER SHALL SUBMIT A LETTER OF CONFIRMATION OF PROFESSIONAL ASSURANCE FIELD REVIEW AND COMPLIANCE TO THE CONSULTANT. THE LETTER SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE YUKON.
5. DESIGN OF COMPONENTS THAT RELY ON THE PRIMARY STRUCTURE FOR SUPPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. INDICATE CLEARLY THE METHOD AND MEANS OF ATTACHMENT AND THE MAGNITUDE OF FORCES THAT THE STRUCTURE MUST WITHSTAND. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD MAY RESULT IN THE NEED TO MODIFY THIS MEANS OF CONNECTION WHICH MUST BE REDESIGNED BY THE SPECIALTY ENGINEER.
6. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN.
7. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
    1. GROUT AND CONCRETE MIX DESIGNS
    2. STRUCTURAL STEEL CONNECTIONS
    3. STEEL DECK
    4. STRUCTURAL AND NON-STRUCTURAL COLD-FORMED STEEL FRAMING INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    5. WINDOWS INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    6. INSULATED METAL PANEL CONNECTIONS INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    7. CURTAIN WALL SYSTEM INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    8. WOOD TO WOOD CONNECTIONS, WOOD TO STEEL CONNECTIONS, AND STEEL TO WOOD CONNECTIONS
    9. PIPE SUPPORT, DUCT SUPPORT, CABLE TRAY SUPPORT INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    10. HANDRAILS AND GUARDS INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    11. FALL ARREST INCLUDING CONNECTIONS TO MAIN STRUCTURAL ELEMENTS
    12. WINDOW WASHING SYSTEM
    13. MISCELLANEOUS METALS FOR ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS INCLUDING SUPPORT AND BRACING
    14. SEISMIC RESTRAINT OF NON-STRUCTURAL BUILDING COMPONENTS (SUSPENDED CEILING, MECH PIPES, DUCTWORK, CABLE TRAYS, ETC.)
    15. CONSTRUCTION MEANS AND METHODS INCLUDING, BUT NOT LIMITED TO CRANE FOUNDATIONS AND FORMWORK.
8. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

FOUNDATION AND GEOTECHNICAL NOTES

1. FOUNDATION DESIGN IS BASED ON THE FOUNDATION INVESTIGATION SOILS REPORT NUMBER 704-ENG.WARC04016-02 PREPARED BY TETRA TECH, TITLED GEOTECHNICAL SITE EVALUATION REPORT POLARIS PROJECT – NEW SCIENCE BUILDING,YUKON UNIVERSITY WHITEHORSE (AYAMDIGUT) CAMPUS, AND DATED JANUARY 5, 2023. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK. ALL FOUNDATION GROUND PREPARATION WORK IS OUTSIDE THE SCOPE OF WORK FOR STANTEC AND MUST BE PROVIDED BY OTHERS UNDER PROFESSIONAL RESPONSIBILITY OF A GEOTECHNICAL CONSULTANT.
2. THICKENED SPREAD AND STRIP FOOTINGS HAVE BEEN DESIGNED BASED ON THE FOLLOWING BEARING RESISTANCES:

THICKENING SIZE	UNFACTORED ULS	FACTORED ULS*	SLS
0.9m SQUARE	400 kPa	200 kPa	500 kPa
1.5m SQUARE	450 kPa	225 kPa	375 kPa
2.0m SQUARE	475 kPa	238 kPa	275 kPa
0.4m STRIP	275 kPa	138 kPa	500 kPa
1.0m STRIP	350 kPa	175 kPa	175 kPa
* 0.5 FACTOR APPLIED			

3. SUBEXCAVATION AND BACKFILLING IS REQUIRED FOR SITE PREPARATION, REFER TO THE GEOTECHNICAL REPORT. FOUNDATION ELEMENTS ARE LOCATED WITHIN THE SEASONAL FROST DEPTH AS PERMITTED BY THE GEOTECHINICAL CONSULTANT PROVIDED SITE PREPARATION RECOMMENDATIONS ARE FOLLOWED.
4. BEAR ALL FOOTINGS ON PROPERLY COMPACTED BACKFILL DIRECTED BY THE GEOTECHNICAL CONSULTANT, NOTWITHSTANDING THE ELEVATIONS INDICATED ON THE DRAWINGS.
5. FOOTING ELEVATIONS MAY NEED TO BE ADJUSTED TO SUIT SITE CONDITIONS, BEARING LEVEL, AND UNDER-SLAB SERVICES. REPORT ANY PROPOSED ADJUSTMENTS TO THE CONSULTANT PRIOR TO PROCEEDING.
6. MAINTAIN MAXIMUM SLOPE OF 2.0 HORIZ. TO 1.0 VERT BETWEEN UNDERSIDE OF ADJACENT FOOTINGS OR AS OTHERWISE INDICATED BY THE GEOTECHNICAL CONSULTANT. FOR DEEPER EXCAVATIONS BESIDE EXISTING FOOTINGS, SEE GEOTECHNICAL CONSULTANT FOR PROCEDURES.
7. SLAB ON GRADE TO BE SUPPORTED BY STRUCTURAL FILL DESIGNED BY THE GEOTECHNICAL CONSULTANT SUFFICIENT TO SUPPORT THE SLAB ON GRADE FOR THE SERVICE LOADING OF THE SLAB. PROVIDE 0.38mm POLYETHYLENE VAPOUR RETARDER UNDER SLAB ON GRADE WITH TAPED JOINTS LAPPED 150mm ON 150mm OF 20mm RADON ROCK COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.
8. UNLESS OTHERWISE SHOWN ON PLAN, FOUNDATION ELEMENTS ARE TO BE CENTERED UNDER WALLS AND COLUMNS.
9. PROVIDE DOWELS FROM THICKENED FOOTINGS TO MATCH ALL VERTICAL WALL AND PILASTER REINFORCEMENT OR AS NOTED ON THE DRAWINGS, MIN 4-15M.
10. COLUMN AND WALL DOWELS TO BE TIED INTO POSITION.
11. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED BASED ON THE FOLLOWING SOIL DATA:

SOIL DENSITY	Ko
20 kN/m3	0.43

12. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED BASED ON A SURFACE SURCHARGE LOAD OF 12 kPa.
13. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED ASSUMING AN EFFECTIVE DRAINAGE SYSTEM IS PROVIDED BEHIND THE WALLS.

EXCAVATION, BACKFILLING AND COMPACTION

1. STRIP AND EXCAVATE TO EXTENTS AND ELEVATIONS NECESSARY TO PROPERLY AND SAFELY COMPLETE THE WORK.
2. STRIP THE BUILDING SITE OF ANY EXISTING BUILDING MATERIALS, AS WELL AS ANY ORGANICS FROM THE SUBGRADE BENEATH THE PROPOSED CONSTRUCTION AS OUTLINED IN THE GEOTECHNICAL REPORT.
3. SUBEXCAVATION AND BACKFILLING REQUIRED, SEE GEOTECHNICAL REPORT.
4. ALL CONSTRUCTION SUBGRADE SHALL BE PROVIDED WITH SUFFICIENT GRADIENT TO DIRECT SURFACE WATER RUN-OFF AWAY FROM CONSTRUCTION AREAS. PROVIDE COLLECTOR DITCHES OR DRAINS TO DIVERT AND DIRECT SUCH SURFACE WATER RUN-OFF AWAY FROM CONSTRUCTION AREAS.
5. CONTRACTOR IS RESPONSIBLE FOR EXCAVATION SHORING, UNDERPINNING, SOIL STABILIZATION, SLOPE STABILITY AND OTHER SOILS RELATED WORK DURING CONSTRUCTION.
6. ALL EXCAVATIONS SHALL BE CARRIED OUT WITH SUFFICENT SLOPED CUT OR SHORING IN ACCORDANCE WITH LOCAL SAFETY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND SHALL BE VERIFIED AS SAFE PRIOR TO WORKER ENTRY.
7. ALL BACKFILL AGAINST RETAINING WALLS SHALL BE CLEAN FREE DRAINING GRANULAR MATERIAL AND SHALL BE PLACED AND COMPACTED IN THIN LAYERS AS INDICATED BY THE GEOTECHNICAL ENGINEER. SOIL COMPACTION WITHIN 1200mm OF THE WALL TO BE ACHIEVED USING LIGHT HAND COMPACTING EQUIPMENT SUCH AS A 300 mm TO 450 mm PLATE TAMPER.
8. BACKFILL NEXT TO FOUNDATIONS SHALL BE PLACED IN LIFTS NO GREATER THAN 150 mm OF CRUSHED GRAVEL OR STRUCTURAL FILL PLACED OVER UNDISTURBED EXISTING SAND AND GRAVEL FILLS UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT.
9. REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
10. PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE, AND DEGRADATION BY APPROVED METHODS.
11. REFER TO GEOTECHNICAL REPORT FOR BACKFILL MATERIAL AND GRADATION REQUIREMENTS.

CAST-IN-PLACE REINFORCED CONCRETE

1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, CURING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1/A23.3.
2. USE NORMAL WEIGHT 2400 kg/m³ TYPE GU CEMENT FOR ALL CONCRETE UNLESS NOTED OTHERWISE IN CONTROLLED CONCRETE TABLE.
3. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED BELOW:

CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH (MPa)	AT AGE (DAYS)	MAXIMUM AGGREGATE SIZE (mm)	CEMENT TYPE
EXTERIOR CONCRETE					
FOOTINGS	F-2	25	28	20	GU
WALLS	C-1	35	56	20	GU
SLABS ON GRADE (STRUCTURALLY REINFORCED)	C-1	35	56	20	GU
SLABS ON GRADE (NON-STRUCTURALLY REINFORCED)	C-2	32	28	20	GU
SITE CONCRETE (NON-STRUCTURAL)	C-2	32	28	20	GU
INTERIOR CONCRETE					
WALLS, COLUMNS AND WALL PILASTERS	N	25	28	20	GU
SLABS ON GRADE	N	25	28	20	GU
HOUSEKEEPING PADS	N	20	28	20	GU

4. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT. ENSURE THAT CONCRETE PLACEMENT DOES NOT DISPLACE REINFORCING MATERIALS FROM THEIR INTENDED LINE AND POSITION. ENSURE THAT CONCRETE IS PROPERLY CONSOLIDATED IN ALL AREAS. ENSURE THAT CONCRETE PLACING METHODS DO NOT OVERLOAD FORMWORK.
5. MAXIMUM FLY ASH CONTENT NOT TO EXCEED 25% OF THE TOTAL CEMENTITIOUS MATERIAL EXCEPT AS FOLLOWS:
    1. CONCRETE FOR FOOTINGS, COLUMNS, AND WALLS: MAXIMUM 40%.
    2. CONCRETE WITH EXPOSURE CLASSES C-XL, C-1 AND C-2: MAXIMUM 15%.
6. FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
7. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
8. FLOOR TOLERANCES FOR LEVELNESS AND FLATNESS SHALL CONFORM TO THE FOLLOWING:

	FLOOR FLATNESS (FF)	FLOOR LEVELNESS (FL)
SLAB ON GRADE (MOVEABLE PARTITIONS)	30	25
SLAB ON GRADE (ALL OTHER LOCATIONS)	20	17

9. CONSTRUCTION JOINTS
    1. CONSTRUCTION JOINT LOCATIONS TO BE SUBMITTED FOR REVIEW BY CONSULTANT PRIOR TO CONSTRUCTION. REINFORCEMENT TO CONTINUE UNINTERRUPTED THROUGH ALL CONSTRUCTION JOINTS.
    2. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE AT MID-SPAN EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS OR WHERE AUTHORIZED BY THE CONSULTANT.
    3. HORIZONTAL CONSTRUCTION JOINTS IN WALLS ARE NOT PERMITTED EXCEPT WHERE AUTHORIZED BY THE CONSULTANT.
    4. KEYWAY(S) TO BE PROVIDED PERPENDICULAR TO THE DIRECTION OF LOAD IN ALL JOINTS. SEE TYPICAL DETAILS.
    5. CONSTRUCTION JOINTS IN FOOTINGS ARE NOT PERMITTED EXCEPT WHERE AUTHORIZED BY THE CONSULTANT.
10. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE CONSULTANT. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING PAID FOR BY OWNER.
11. CAST IN ELECTRICAL CONDUITS SHALL CONFORM TO THE FOLLOWING CONDITIONS:
    1. BE PLACED WITHIN THE MIDDLE THIRD OF THE SLAB AND NOT EXCEED 1/3 CONCRETE THICKNESS.
    2. CROSS CONDUIT OVER ONE ANOTHER AT 90 DEGREE ANGLES.
    3. MAX TWO LAYERS OF CONDUIT WHEN CROSSING, MAX ONE LAYER OTHERWISE.
    4. DEPTH OF EACH CONDUIT CROSSING NOT TO EXCEED 25% OF THE MEMBER DEPTH.
    5. DO NOT PLACE CONDUIT IN FOOTINGS.
    6. CONDUITS SHALL BE PLACED A MINIMUM OF 150mm APART OR AT A SPACING OF 3 TIMES THE LARGER CONDUIT DIAMETER...
    7. DO NOT PLACE CONDUIT WITHIN 1.2m OF COLUMNS.
12. HOT WEATHER PROVISIONS REQUIRED WHEN AMBIENT TEMPERATURE IS ABOVE 27 DEGREES CELSIUS.
13. CONCRETE PROTECTION FROM COLD WEATHER:
    1. COLD WEATHER PROTECTION IS REQUIRED WHEN THE ACTUAL AIR OR FORECASTED TEMPERATURE FALLS BELOW 5°C.
    2. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND OR OTHER FROZEN MATERIAL.
    3. PROVIDE PROTECTION AND SUPPLEMENTARY HEAT AS REQUIRED TO ENSURE ADEQUATE CURING OF CONCRETE.
    4. MAINTAIN CONCRETE TEMPERATURE AT 10°C OR HIGHER FOR A MINIMUM 72 HOURS OR UNTIL CONCRETE HAS ATTAINED 40% OF THE SPECIFIED STRENGTH, WHICH EVER IS LONGER.
    5. WHERE SUPPLEMENTARY HEAT IS PROVIDED, USE APPROVED CONCRETE HEATERS WITH EXHAUST VENTED AWAY FROM THE SURFACE OF THE CONCRETE.
14. CONCRETE TOLERANCES SHALL CONFORM TO THE FOLLOWING:
    1. LEVEL ALIGNMENT (TOP OF SLAB FROM SPECIFIED PLANE AT ANY POINT):
        - SLAB ON GRADE: ±20mm
    2. VERTICAL ALIGNMENT:
        - GENERAL LOCATION OF LINES, SURFACES, ARISES: ±20mm
        - SLOPE OF LINES, SURFACES, ARISES: 1 IN 350
        - EXTERIOR FACE OF COLUMNS: 1 : 400 MEASURED AT ANY ONE SURFACE (40mm MAX FOR A TOTAL HEIGHT OF STRUCTURE)
        - EDGE OF FLOORS: ±10mm
    3. SLAB THICKESS, THICKENED FOOTING DEPTH:
        - THICKNESS LESS THAN 300: ±8mm
        - THICKNESS GREATER THAN 300: ±12mm
    4. EMBEDDED PLATE LOCATION:
        - VERTICAL AND HORIZONAL LOCATION: ±20mm
        - SLOPE OF SURFACE: ±1 IN 40 (MAXIMUM 3mm FOR PLATES <300)
    5. OTHER TOLERANCES IN ACCORDANCE WITH CSA-A23.1-09 AND CSA-S16-09.

CONCRETE REINFORCEMENT

1. REINFORCEMENT STEEL TO CONFORM TO RSIC, "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" AND CSA-G30.18 GRADE 400.
2. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE STRUCTURAL CONSULTANT. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30.18, GRADE 400W. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA-W186.
3. NOTIFY THE STRUCTURAL CONSULTANT PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.
4. SUBMIT SHOP DRAWINGS AND DETAILS FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.
5. DO NOT STRAIGHTEN OR REBEND ANY REINFORCEMENT AND DO NOT USE ANY REINFORCEMENT THAT HAS BEEN KINKED OR BENT ON SITE UNLESS NOTED OTHERWISE.
6. WHEN FIELD BENDING IS AUTHORIZED, REINFORCING SHALL BE GRADE 400W AND BENT WITHOUT HEAT, APPLYING SLOW AND STEADY PRESSURE. FIELD BENDING SHALL NOT BE DONE WHEN TEMPERATURE IS BELOW 5 DEGREES AMBIENT.
7. GALVANIZE NON-PRESTRESSED REINFORCEMENT TO ASTM A767/A676M , STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT, TO A MINIMUM ZINC COATING 600 g/m².
8. POSITION OF REINFORCING STEEL TAKES PRECEDENCE OVER CONDUIT, DUCTWORK OR PIPING.
9. PLACE AND SECURE ALL REINFORCEMENT IN ITS CORRECT POSITION PRIOR TO PLACING ANY CONCRETE. DO NOT ADJUST OR PLACE REINFORCEMENT IN FRESHLY PLACED CONCRETE.
10. PLACE REINFORCEMENT WITHIN A TOLERANCE OF ±6 mm FOR SLAB STEEL AND ±12 mm FOR OTHER STEEL. BENDS AND END OF BARS TO BE WITHIN 50 mm OF SPECIFIED LOCATION. ADEQUATELY SUPPORT AND SECURE REINFORCEMENT TO PREVENT MOVEMENT WITHIN THE ALLOWABLE TOLERANCES BEFORE AND DURING PLACING OF CONCRETE.
11. CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS TO MEET REQUIREMENTS OF CSA-A23.1/A23.2: ADEQUATE FOR STRENGTH AND SUPPORT OF REINFORCING. WHERE FINISHED CONCRETE CONDITION WILL BE EXPOSED TO VIEW, EXPOSED TO ELEMENTS, OR IN WET ENVIRONMENTS; USE PLASTIC OR NON-CORROSIVE MATERIAL, PRECAST CONCRETE, OR SUBJECT TO APPROVAL CONCRETE MASONRY BLOCK OR BRICK OF CORRECT HEIGHT MADE FROM CONCRETE OF EQUAL STRENGTH AND DURABILITY OF CONCRETE TO BE PLACED. METAL PIPE, STONE OR WOOD ARE NOT ACCEPTABLE. CHAIRS USED ARE NOT TO RESULT IN VOIDS OR UNACCEPTABLE APPEARANCE IN EXPOSED CONCRETE SURFACES.
12. PROVIDE ALL ADDITIONAL SUPPORT BARS AS REQUIRED TO SUPPORT ALL MAIN REINFORCEMENT INDICATED. CARRY BARS SHALL BE ADDITIONAL TO BARS NOTED ON DRAWINGS.
13. SLAB ON GRADE CHAIRS AND BAR SUPPORTS SHALL BE COMPATIBLE WITH VOID FORM WHERE APPLICABLE.
14. CLEAR CONCRETE COVER TO REINFORCEMENT:

	EXPOSURE CLASS		
	N	F-1, F-2	C-XL, C-1, C-2, C-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	-	75mm	75mm
PILASTERS AND COLUMNS TO TIES / STIRRUPS (EXCEPT AS NOTED BELOW)	30mm	40mm	60mm
SLABS AND WALLS (EXCEPT AS NOTED BELOW)	20mm	40mm	60mm
RATIO OF COVER TO NOMINAL BAR DIAMETER	1	1.5	2
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1	1.5	2
NOTE: THE LARGEST COVER REQUIRED FOR ANY ONE ELEMENT SHALL GOVERN.			

15. STANDARD END HOOK LENGTHS FOR 400MPa REINFORCEMENT:

BAR SIZE		10M	15M	20M	25M	30M	35M
90° HOOK LENGTH							
	25MPa	230mm	320mm	400mm	510mm	600mm	720mm
	30MPa	210mm	300mm	360mm	470mm	550mm	660mm
	35MPa	200mm	270mm	340mm	430mm	510mm	610mm
180° HOOK LENGTH							
		140mm	180mm	210mm	280mm	390mm	550mm

16. REINFORCEMENT SPLICE TABLE:

BAR SIZE	COMP SPLICE (mm)	TENSION SPLICE - CLASS B (mm)					
		CONCRETE STRENGTH					
		VERTICAL OR BOTTOM HORIZONTAL BARS, BASIC TENSION LAP			TOP HORIZONTAL BARS*		
		25MPa	30MPa	35MPa	25MPa	30MPa	35MPa
10M	350	450	400	400	550	550	550
15M	500	600	550	550	800	750	700
20M	600	750	700	650	1000	900	850
25M	750	1200	1100	1000	1550	1450	1300
30M	900	1400	1300	1200	1850	1700	1550
35M	1050	1700	1550	1450	2200	2000	1850
NOTE:	*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.						

    1. WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
    2. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.
    3. WHERE NO SPLICE OR SPLICE TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.
17. EMBEDMENT OF DOWELS – FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBERS BY 1.3.
    1. WHERE EMBEDMENT IS DIMENSIONED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
    2. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION EMBEDMENT, IT SHALL BE AS NOTED IN THE REINFORCEMENT SPLICES TABLE.
    3. WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.
18. PROVIDE COLUMN AND WALL DOWELS FROM FOUNDATIONS USING SAME REINFORCING AS IN COLUMNS AND WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
19. REINFORCE ALL INTERIOR AND EXTERIOR SLABS ON GRADE WITH 10M AT 400mm ON CENTRE UNLESS NOTED OTHERWISE.
20. OPENINGS IN WALLS AND SLABS – PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600 mm PAST THE OPENINGS, 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.
21. DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
22. LOCATE REINFORCING SPLICES NOT INDICATED ON DRAWINGS AT POINTS OF MINIMUM STRESS. LOCATION OF SPLICES IS TO BE APPROVED BY THE STRUCTURAL CONSULTANT.
23. ALL REINFORCEMENT TO BE SUPPORTED AT 1200mm MAXIMUM SPACING FOR BARS 15M AND GREATER AND 900mm FOR 10M BARS AND MESH.
24. FOR MECHANICAL SPLICES AT LOCATIONS WHERE REINFORCING CAN NOT BE LAP SPLICED USE A LENTON LOCK OR APPROVED EQUIVALENT COUPLER TO DEVELOP THE FULL TENSION STRENGTH OF BAR.
25. TOUCH UP DAMAGED AND CUT ENDS OF GALVANIZED REINFORCING STEEL WITH COMPATIBLE FINISH TO PROVIDE CONTINUOUS COATING.
26. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OIL, RUST AND OTHER FOREIGN COATINGS.

CONCRETE FORMWORK

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.1.
2. NO COLUMN OR WALL FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 10MPa.
3. REFER TO ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS FOR BEAMS, COLUMNS, AND WALLS.

STRUCTURAL STEEL

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO THE FOLLOWING STANDARDS:
    1. CAN/CSA S16 - LIMIT STATES DESIGN OF STEEL STRUCTURES
    2. CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL, (EXCEPT AS OTHERWISE REQUIRED IN THE NOTES FOLLOWING, THE DRAWINGS OR THE SPECIFICATIONS.)
    3. CISC / CPMA STANDARDS FOR PAINT
    4. SSPC, STEEL STRUCTURES PAINTING COUNCIL, SURFACE PREPARATION
    5. CAN / CSA-G40.20/G40.21-GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL
    6. CSA G164-M HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES
    7. CAN / CSA-S136-M COLD FORMED STEEL STRUCTURAL MEMBERS
    8. CSA W47.1 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL
    9. CSA W55.3 CERTIFICATION OF COMPANIES FOR RESISTANCE WELDING OF STEEL
    10. CSA W59 WELDED STEEL CONSTRUCTION (METAL ARC WELDING)
    11. UNLESS NOTED OTHERWISE DATES OF APPLICABLE VERSION OF THESE STANDARDS ARE AS REFERENCED IN THE APPLICABLE PROJECT CODES. NOTWITHSTANDING THESE CODES AND STANDARDS, THE MINIMUM REQUIREMENTS OF THESE NOTES AND TENDER DOCUMENTS SHALL APPLY.
2. READ THESE DRAWINGS IN CONJUNCTION WITH SPECIFICATION DIVISION 05.
3. STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.1 ONLY.
4. STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.
5. THE MANUFACTURER SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS AND ANCHOR BOLT LAYOUT FOR REVIEW TO THE CONSULTANT SHOWING ALL REQUIRED STRUCTURAL STEEL DETAILS. FABRICATION THAT COMMENCES PRIOR TO SHOP DRAWING REVIEW BY THE CONSULTANT IS AT THE RISK OF THE CONTRACTOR.
6. CONNECTIONS:
    1. PROVIDE A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
    2. ALL BOLTED CONNECTIONS TO USE SNUG-TIGHTENED HIGH-STRENGTH BOLTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
    3. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE YUKON AT THE STEEL FABRICATOR'S EXPENSE.
    4. STEEL TO WOOD (AND WOOD TO STEEL) CONNECTIONS SHALL BE DESIGNED BY THE WOOD SPECIALTY ENGINEER. FABRICATION OF STEEL COMPONENTS OF THOSE CONNECTIONS IS THE RESPONSIBILITY OF THE STEEL...
    5. SHOP DRAWINGS FOR THE CONNECTIONS SHALL BE SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE YUKON WHO HAS COMPLETED THE CISC CONNECTION DESIGN COURSE AND IS RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS. THE CONNECTION DESIGN ENGINEER SHALL PROVIDE LETTERS OF ASSURANCE FOR DESIGN AND FIELD SUPERVISION FOR STEEL CONNECTIONS.
    6. CONNECTION FORCES SHOWN ARE FACTORED FORCES UNLESS OTHERWISE NOTED.
    7. UNLESS NOTED OTHERWISE, DESIGN CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR FORCE EQUAL TO 50% OF THE TOTAL BEAM LOAD TABULATED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION.
    8. UNLESS NOTED OTHERWISE, DESIGN MOMENT CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED MOMENT EQUAL TO THE FULL MOMENT CAPACITY OF THE SMALLER MEMBER JOINED.
    9. DESIGN BRACE CONNECTIONS FOR THE LOADS SHOWN ON THE DRAWINGS. IF LOADS ARE NOT SHOWN, DESIGN CONNECTIONS OF HSS OR W-SECTIONS FOR 50% OF THEIR TENSION CAPACITY, FOR ALL OTHER BRACE MEMBER DESIGN CONNECTIONS FOR 100% OF THEIR TENSION CAPACITY.
    10. PROVIDE 10 mm PLATE STIFFENERS EACH SIDE OF BEAM WHERE AT ALL BEARING CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
    11. PERIMETER CHORD ANGLES AND DRAG MEMBERS SHALL HAVE CONNECTIONS AND SPLICES DESIGNED TO DEVELOP THE FULL STRENGTH OF THE MEMBER.
    12. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59.1.
    13. CONNECTION DESIGN SHALL TRANSFER THE SHEAR FORCE TO THE SHEAR CENTRE OF THE SUPPORTING MEMBER.
7. UNLESS NOTED OTHERWISE, DO NOT SPLICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL CONSULTANT. WHERE GRANTED, ALL SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL STRENGTH OF THE CONNECTED ELEMENTS. A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY AND PAID FOR BY THE SUB-CONTRACTOR.
8. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS FOR MISCELLANEOUS STEEL DETAILS AND FOR VERIFICATION OF ALL DIMENSIONS.
9. WELDING OF REINFORCING STEEL (REBAR) SHALL ONLY BE BY A SHOP CERTIFIED TO CSA-W186 WITH REINFORCING STEEL (REBAR) CONFORMING TO CSA-G30.18, GRADE 400W.
9. STEEL EXPOSED PERMANENTLY TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED TO CONFORM TO CSA G164, INCLUDING ALL MASONRY VENEER SUPPORT ANGLES, EMBEDS IN EXPOSED CONCRETE, ETC.
10. WHEN STRUCUTRAL STEEL IS TO BE GALVINIZED THE SILICON CONTENT OF THE STRUCTURAL STEEL SHALL BE BETWEEN 0.15% AND 0.25%
11. THE STRUCTURAL STEEL CONTRACTOR SHALL OBTAIN SITE CONFIRMATION OF THE INSTALLATION OF ANCHOR RODS. WHERE ANCHOR RODS ARE INSTALLED OUTSIDE OF TOLERANCE, BASE PLATES MODIFICATIONS SHALL BE DESIGNED AND SEALED BY THE SUB-CONTRACTOR'S DELEGATED DESIGN ENGINEER AND SUBMITTED TO THE CONSULTANT FOR REVIEW.
12. MEMBERS HAVE BEEN DESIGN BASED ON THE FOLLOWING VERTICAL LIVE/SNOW DEFLECTION CRITERIA:
    1. ROOFS - L/360
13. ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED STEEL.
14. SUPPLY STEEL WITH PROPERTIES NOTED BELOW:

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 (RECTANGULAR OR SQUARE)	CSA G40.21 350W CLASS C
HOLLOW STRUCTURAL SECTIONS (ROUND)	CSA G40.21 350W CLASS C OR ASTM A500
OTHER STRUCTURAL SHAPES AND PLATES	CSA G40.21 300W
BOLTS (STEEL TO STEEL CONNECTIONS)	ASTM A325
BOLTS (STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS)	ASTM A307
ANCHOR RODS	ASTM F1554 GRADE 36
HEADED STUD ANCHORS	ASTM A108
THREADED ROD	ASTM A36

15. SHEAR STUD CONNECTORS TO CONFORM TO ASTM-A108 AND SHALL BE APPLIED BY ELECTRICAL RESISTANCE WELDING ONLY.
16. DO NOT PLACE ANY HOLES, OPENINGS, COPES OR CUTS IN STRUCTURAL STEEL MEMBERS WITHOUT THE APPROVAL OF THE STRUCTURAL CONSULTANT. WHERE APPROVAL IS GRANTED, PROVIDE REINFORCING PLATES AROUND ALL OPENINGS TO MAINTAIN DESIGN STRENGTH.
17. PROVIDE 10 mm WEEP HOLES AT TOP AND BOTTOM OF ALL HSS COLUMNS. PROVIDE 6.4 mm CAP PLATE FOR ALL HSS COLUMNS.
18. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50 MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.
19. SQUARE CUT OR FULL STRENGTH WELD ALL COLUMNS AT BASE PLATES AND AT TOP WHERE BEARING UNDER CONTINUOUS BEAMS.
20. REFER TO SPECIFICATION 05 12 00 FOR FINISHING.
21. REFER TO SPECIFICATION 05 05 05 FOR INSPECTION REQUIREMENTS.
22. SHOP AND FIELD INSPECTION OF STEEL FABRICATION AND ERECTION TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE STRUCTURAL CONSULTANT. TESTING AGENCY SHALL BE CERTIFIED TO CSA-W178. TESTING PAID FOR BY THE OWNER.

Stantec

Stantec Consulting Ltd.
200-325 25 Street SE
Calgary, AB T2A 7H8
Tel: (403) 716-8000

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Client/Project Logo

Yukon University

Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16

Issued & Revision

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	DA	GB	RS	2022.12.15

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
GENERAL NOTES

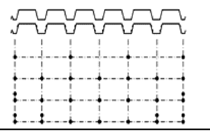
Project No. 144214760
Scale
Revision 6
Drawing No. S001

STEEL DECK

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO:
   1. CAN/CSA S-136 COLD FORMED STEEL MEMBERS CANADIAN SHEET STEEL BUILDING INSTITUTE STANDARDS
   2. CSA W47.1 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES
   3. CSA W55.3 RESISTANCE WELDING QUALIFICATION CODE FOR FABRICATORS
   4. CSA W59 WELDED STEEL CONSTRUCTION
   5. ASTM A370 STANDARD TEST METHODS FOR MECHANICAL TESTING OF STEEL PRODUCTS
   6. ASTM A446/A446M STEEL SHEET, ZINC COATED (GALVANIZED) BY THE HOT-DIP PROCESS – STRUCTURAL QUALITY
   7. ASTM A570/A570M STEEL SHEET AND STRIP, STRUCTURAL QUALITY
   8. ASTM A792/A792M GENERAL REQUIREMENTS FOR STEEL SHEET, ALUMINUM-ZINC ALLOY COATED BY THE HOT-DIP PROCESS
   9. AISI SPECIFICATION FOR DESIGN OF COLD FORMED STEEL
   10. CSSBI 10M & 12M GALVANIZED SHEET STEEL DECK
2. SHEET STEEL TO CONFORM TO ASTM A653/A653M, GRADE A STRUCTURAL QUALITY GRADE 230.
3. WELDING OPERATORS SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU WITH QUALIFIED PROCEDURES FOR WELDING METAL DECK.
4. ALL STEEL DECK SHALL BE DESIGNED BY THE STEEL DECK FABRICATOR/SUPPLIER. THE SHOP DRAWINGS FOR THE STEEL DECK SHALL BE SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE YUKON WHO IS FAMILIAR WITH THIS TYPE OF CONSTRUCTION.
5. THE DECK DESIGN ENGINEER IS RESPONSIBLE FOR THE PROPER DESIGN AND FABRICATION OF THE DECK IN BOTH ITS PERMANENT AND TEMPORARY CONDITIONS AND FOR INSTALLATION METHODS AND CONNECTIONS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS OR AS REQUIRED TO ACHIEVE THE PERFORMANCE SPECIFIED.
6. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION, SHOWING THE TYPE AND GAUGE OF DECK BEING SUPPLIED, SPECIFIC DETAILS OF LAYOUT AND FIXING, END CLOSURES, FLASHING DETAILS, CUTTING WORK, OPENING ACCESSORIES, CORROSION PROTECTION, PROTECTION OF WELDS, ETC., TOGETHER WITH THE SHEET MARK SCHEDULE.
7. PROVIDE ALL WORK, MATERIALS, LABOUR, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETION OF THE METAL DECKING, INCLUDING FABRICATING, ERECTING AND INSTALLING THE METAL DECK AND THEIR APPURTENANCES AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. INCLUDE ALL PLATES AND BENT PLATES IN THICKNESS UP TO BUT NOT INCLUDING 3 mm THICK PLATE UNLESS OTHERWISE SHOWN. PLATES 3 mm THICK AND OVER ARE TO BE PROVIDED BY THE STEEL FABRICATOR UNLESS OTHERWISE SHOWN.
8. VISUAL INSPECTION OF DECK FASTENING REQUIRED BY A TESTING AND INSPECTION FIRM FOR FIELD WELDING, INCLUDING PRY TESTING AND CORROSION PROTECTION, AND FOR PROPER INSTALLATION OF SCREWS AND NAILS WHERE SPECIFIED.
9. MATERIALS TO BE DELIVERED TO SITE IN GOOD CONDITION WITH THE MANUFACTURER'S LABELS AND SEALS INTACT. CARE SHOULD BE EXERCISED IN STACKING AND STORING MATERIALS ON SITE AND DURING INSTALLATION. ALL DAMAGED SHEETS SHALL BE REPLACED.
10. OUTLINES OF ALL TYPES OF DECKING AND CLADDING SHALL BE UNIFORMLY FORMED TO MAINTAIN LEVELS AND TRUE ALIGNMENT AFTER INSTALLATION.
11. UNLESS NOTED OTHERWISE, LIMIT ALLOWABLE DEFLECTION FOR STEEL ROOF DECK TO THE FOLLOWING:
    1. LIVE LOAD - SPAN/360
    2. TOTAL LOAD - SPAN/240
12. THE STEEL ROOF DECK ACTS AS A DIAPHRAGM FOR THE DISTRIBUTION OF WIND AND SEISMIC FORCES TO THE LATERAL LOAD RESISTING ELEMENTS.
13. MINIMUM BASE METAL DECK THICKNESS, FLUTE HEIGHT AND FASTENING REQUIREMENTS SEE STEEL DECK TABLE.

STEEL DECK

DECK FASTENING SCHEDULE					DECK WIDTH 914mm
ZONE[1]	DECK GAUGE	FLUTE HEIGHT	FASTENING PATTERN[2]	SIDELAP SPACING[3]	NUMBER OF FASTENERS
RD1	0.91 mm	38 mm	914/7	150	914/4 914/7
RD2	1.21 mm	38 mm	914/9	150	914/9 914/11



1. ROOF DECK (RD)
2. FLUTES SPACED AT 150mm MAXIMUM ON CENTRE.
3. FASTENERS TO STEEL MEMBERS SHALL CONFORM TO ONE OF THE FOLLOWING TYPES:
   1. HILTI X-ENP 24 FASTENER WHERE STEEL THICKNESS IS BETWEEN 3mm AND 9.5mm (⅛" AND ⅜"). FOR STEEL THICKNESS GREATER THAN 6.4mm (¼"), USE HILTI X-HSN 19.
4. FASTENERS OF STEEL DECK TO WOOD BEAMS SHALL BE:
   1. SIMPSON SDS25300 SCREWS. METAL DECK SHALL BE PREDRILLED WITH 4 mm PILOT HOLES PRIOR TO INSTALLING THE SDS SCREWS.
5. SIDELAP CONNECTORS SHALL CONFORM TO ONE OF THE FOLLOWING TYPES:
   1. 5mm (#10) SELF DRILLING SCREWS.
   2. HILTI SLC-02 SCREWS.
6. FASTEN FLUTES PARALLEL WITH WOOD BEAMS AT 300mm WITH SIMPSON SDS25300 SCREWS. METAL DECK SHALL BE PRE-DRILLED WITH 4 mm PILOT HOLES PRIOR TO INSTALLING THE SDS SCREWS.
7. FASTEN END LAPS WITH FASTENER TYPES AS NOTED ABOVE AT EACH FLUTE OR 150mm MAX SPACING PARALLEL TO FLUTES. MINIMUM END LAP 75mm.
8. ALL PERIMETER MEMBERS AND ALL MEMBERS WITH DRAG FORCES NOTED ON PLAN, SHALL RECEIVE A MINIMUM OF 2 ROWS OF SIMPSON SDS25300 SCREWS AT 150 ON CENTER.
9. DECK GAUGE NOTED IS THE MINIMUM TO SATISFY DIAPHRAGM, INCREASE THICKNESS AS REQUIRED TO SUPPORT GRAVITY AND WIND LOADS AND TO SATISFY DEFLECTION LIMITS.

14. DECK UNITS TO BE CONTINUOUS OVER AT LEAST THREE SUPPORTS WHERE STRUCTURAL FRAMING PERMITS.
15. ALL WELDS MUST BE TOUCHED UP BY THE DECK ERECTOR WITH GALVICON OR OTHER ZINC RICH CORROSION RESISTANT PAINT SUPPLIED BY THE STEEL DECK MANUFACTURER.
16. PROVIDE CONTINUOUS DECK EDGE ANGLE TO SUPPORT ALL EDGES OF ROOF DECK. MINIMUM SIZE TO BE L76x76x6.4 UNLESS NOTED OTHERWISE ON DRAWINGS.
17. SPLICES IN CONTINUOUS EDGE ANGLE TO DEVELOP FULL TENSION CAPACITY OF THE ANGLE.
18. PROVIDE L76x76x6.4 ANGLE TO SUPPORT DECK EDGES AT ALL OPENINGS UP TO 400 mm IN SIZE, REFER TO TYPICAL DETAILS. FOR LARGER OPENINGS, REFER TO TYPICAL DETAILS.

COLD-FORMED STRUCTURAL STEEL FRAMING

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S136 AND CANADIAN SHEET STEEL BUILDING INSTITUTE (CSSBI) STANDARDS AND MANUALS.
2. WELDING TO CONFORM TO CSA-W59.
3. MATERIALS:
   1. STEEL COATINGS TO A591
   2. STEEL SHEET, COLD-ROLLED, ELECTROLYTIC ZINC-COATED.
   3. STEEL TO CSA S136 AND SHALL BE IDENTIFIED AS TO SPECIFICATION, TYPE, GRADE AND MECHANICAL...
4. SHEET STEEL TO CONFORM TO ASTM A653/A653M, GRADE A STRUCTURAL QUALITY GRADE 230. GALVANIZED WITH ZINC COATING OF ZF75AS DESIGNATED BY ASTM A653/A653M.
5. CONTRACTOR TO COORDINATE LIGHTWEIGHT STEEL FRAMING LOCATIONS AND REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
6. SUBMIT CHECKED SHOP DRAWINGS BEARING THE STAMP AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE YUKON. INCLUDE ALL NECESSARY SHOP DETAILS AND ERECTION DIAGRAMS. INDICATE MEMBER SIZES, LOCATIONS, THICKNESSES EXCLUSIVE OF COATING, COATINGS AND MATERIALS. INCLUDE CONNECTION DETAILS FOR ATTACHING FRAMING TO ITSELF AND FOR ATTACHMENT TO THE STRUCTURE. SHOW SPLICE DETAILS WHERE PERMITTED. INDICATE DESIGN LOADS.
7. THE DELEGATED PROFESIONAL ENGINEER SHALL CERTIFY THAT ALL COMPONENTS ARE FABRICATED AND ERECTED IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS.
8. GRAVITY LOADS TO BE PER THE DESIGN LOADS SECTION.
9. LATERAL LOADS ON WALL STUDS TO BE DETERMINED BY THE DELEGATED PROFESSIONAL ENGINEER BASED ON WIND AND SEISMIC CLIMATIC INFORMATION IN THE DESIGN LOADS SECTION. A MINIMUM PRESSURE OF 0.25 kPa SHALL BE APPLIED ON INTERIOR WALLS.
10. PROVIDE A 25 mm GAP BETWEEN NON-LOAD-BEARING PARTITION WALLS AND STRUCTURE ABOVE TO ALLOW FOR DEFLECTION.
11. BUILT-UP BEAMS, STUDS, TRACKS OR COLUMNS TO BE SCREWED TOGETHER, AT A MINIMUM, IN ACCORDANCE WITH CSSBI 59-05. DO NOT SPLICE BUILT-UP BEAMS OR COLUMNS.
12. LINTELS OVER OPENINGS LESS THAN 3000mm WIDE ARE TO BE DESIGNED AND CONSTRUCTED OUT OF BUILT-UP COLD-FORMED STEEL SECTIONS. OPENINGS LARGER THAN 3000mm, REFER TO STRUCTURAL DETAILS FOR SUPPORT.
13. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS.
14. DESIGN BRIDGING TO PREVENT MEMBER ROTATION AND MEMBER TRANSLATION PERPENDICULAR TO THE MINOR AXIS. PROVIDE FOR SECONDARY STRESS EFFECTS DUE TO TORSION BETWEEN LINES OF BRIDGING.
15. MAXIMUM DEFLECTIONS UNDER SPECIFIED LOADS SHALL CONFORM TO THE FOLLOWING:
    1. LIVE LOAD DEFLECTIONS OF WALL STUDS SUPPORTING MATERIALS SUSCEPTIBLE TO MASONRY OR STONE L/600, WALL STUDS SUPPORTING ALL OTHER MATERIALS (E.G. METAL CLADDING, SYNTHETIC VENEERS, GYPSUM WALLBOARD) L/360.
16. THE SPACING OF MEMBERS SHALL NOT EXCEED THE FOLLOWING:
    1. WALL STUDS 400 mm O/C
17. CONNECTIONS BETWEEN LIGHTWEIGHT STEEL FRAMING MEMBERS SHALL BE BY BOLTS, WELDING OR SHEET METAL SCREWS. RESISTANCES FOR SHEET METAL SCREWS SHALL BE BASED ON THE MANUFACTURER'S LOWER BOUND TEST VALUES MULTIPLIED BY THE APPROPRIATE RESISTANCE FACTOR, AS GIVEN IN CAN S136 M.

WOOD

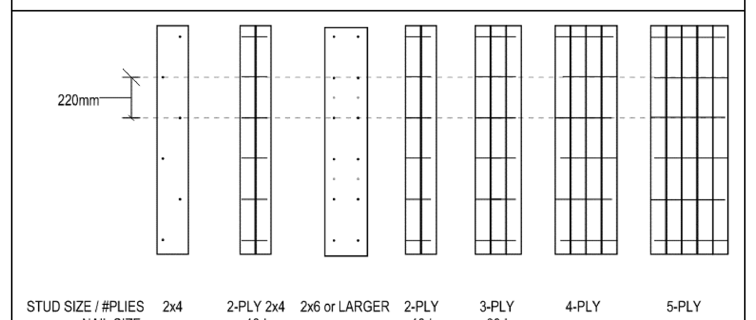
1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-O86 AND CAN/CSA-O122, AND THE NATIONAL BUILDING CODE 2020, WHICHEVER IS MORE STRINGENT.
2. SUPPLY AND INSTALL TEMPORARY BRACING NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL WALLS AND ROOF HAVE BEEN SHEATHED/DECKED.
3. SUPPLY TIMBER, GLULAMS AND STRUCTURAL COMPOSITE LUMBER WITH PROPERTIES NOTED IN TIMBER GRADES TABLE. ALL SAWN LUMBER AND TIMBER SHALL CONFORM TO "NGLA-STANDARD GRADING RULES FOR CANADIAN LUMBER".

TIMBER GRADES

MEMBER TYPE	GRADE	
TONGUE & GROOVE DECKING		
WOOD DECKING (RD3)	38 mm THICK S-P-F SELECT GRADE TONGUE AND GROOVE DECKING	
SHEATHING		
ROOFS OVER JOISTS (RD4)	15.5 mm THICKNESS CSA O121 DOUGLAS FIR PLYWOOD OR CSA O151 CANADIAN SOFTWOOD PLYWOOD	
ROOFS OVER WOOD DECKING (RD3)	18.5 mm THICKNESS CSA O121 DOUGLAS FIR PLYWOOD OR CSA O151 CANADIAN SOFTWOOD PLYWOOD	
WALLS	15.5 mm THICKNESS CSA O121 DOUGLAS FIR PLYWOOD OR CSA O151 CANADIAN SOFTWOOD PLYWOOD	
SAWN LUMBER		
JOISTS AND BEAMS LESS THAN 114mm WIDE	S-P-F, NO. 1/NO. 2 GRADE	
PARTITIONS AND EXTERIOR WALL STUDS	S-P-F, NO. 1/NO. 2 GRADE	
BEAMS AND COLUMNS 114mm OR WIDER	S-P-F, NO. 1 GRADE	
STRUCTURAL COMPOSITE LUMBER		
VERSA-STUD® 1.8E 2400 BY BOISE CASCADE	MODULUS OF ELASTICITY	11,720 MPa (1.7x10^6 psi)
	FLEXURAL BENDING STRESS, fb	31 MPa (4435 psi)
	COMPRESSION PERPENDICULAR TO GRAIN, fc⟂	9.4 MPa (1365 psi)
	COMPRESSION PARALLEL TO GRAIN, fc∥	33 MPa (4790 psi)
	HORIZONTAL SHEAR PARALLEL TO GRAIN, fv	3.7 MPa (530psi)
	EQUIVALENT SPECIFIC GRAVITY, SG	0.50
GLUE-LAMINATED TIMBER		
BEAMS	D. FIR-L, 24f-E STRESS GRADE FOR SIMPLE SPANS AND 24f-EX STRESS GRADE FOR CONTINUOUS AND CANTILEVERED BEAMS (INCLUDING BEAMS OVER CHEVRON BRACES)	
COLUMNS	D. FIR-L, 24f-EX STRESS GRADE	

4. WOOD MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.
5. MOISTURE CONTENT OF LUMBER AND TIMBER SHALL NOT EXCEED 19% (BY WEIGHT) AT TIME OF INSTALLATION. ALL LUMBER AND TIMBER TO BE ADEQUATELY PROTECTED DURING ALL STAGES OF CONSTRUCTION TO ENSURE MOISTURE CONTENT REMAINS BELOW 19% LIMIT.
6. PROTECT ENGINEERED WOOD PRODUCTS PER MANUFACTURER'S RECOMMENDATIONS. WHEN USING ENGINEERED COMPOSITE LUMBER, THE GENERAL CONTRACTOR SHALL ENSURE THAT IT IS ADEQUATELY PROTECTED DURING CONSTRUCTION.
7. CUT ALL COMPONENTS NEAT AND SQUARE, PROVIDING FULL CONTACT WITH ADJACENT MEMBERS.
8. PROVIDE BLOCKING OR RIM BOARD AT SUPPORTS AND ENDS OF CANTILEVERS FOR JOISTS AND RAFTERS.
9. PROVIDE INTERMEDIATE BLOCKING OR CROSS BRIDGING AT MAXIMUM SPACING OF 2440mm ON CENTRE FOR JOISTS AND RAFTERS.
10. SHEAR WALLS TO BE COMPLETE WITH CONTINUOUS DOUBLE TOP PLATES AND SINGLE BOTTOM PLATE (UNO).
11. BEAMS AND LINTELS: REFER TO STRUCTURAL PLANS.
12. PROVIDE BUILT-UP COLUMNS DIRECTLY UNDERNEATH BUILT-UP BEAMS OR LINTELS FOR BEARING. MATCH PLY OF BUILT-UP COLUMN TO PLY OF BUILT-UP BEAM OR LINTEL UNO (ie. 3-PLY BUILT-UP BEAM TO BE SUPPORTED BY 3-PLY BUILT-UP COLUMN).
13. BUILT-UP COLUMNS TO BE NAILED TOGETHER IN ACCORDANCE WITH THE BUILT-UP COLUMN NAILING PATTERN TABLE UNO. DO NOT SPLICE BUILT-UP COLUMNS.

BUILT-UP COLUMN NAILING PATTERN

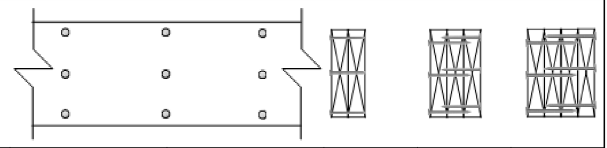


STUD SIZE / #PLIES	2x4	2-PLY 2x4	2x6 or LARGER	2-PLY	3-PLY	4-PLY	5-PLY
NAIL SIZE / LENGTH		10d 76mm		10d 76mm	30d 114mm		
SCREW SIZE / LENGTH					8mm X 102mm	9.5mm X 152mm	9.5mm X 184mm

NOTE: SCREWS ARE TO BE GRK-RSS SCREWS OR STRONG-DRIVE SDCP TIMBER-CP SCREWS OR APPROVED ALTERNATE

14. BUILT-UP BEAMS TO BE BOLTED OR NAILED TOGETHER IN ACCORDANCE WITH THE BUILT-UP BEAM NAILING PATTERN TABLE UNO. DO NOT SPLICE BUILT-UP BEAMS.

BUILT-UP BEAM NAILING PATTERN



NUMBER OF PLIES			2-PLY	3-PLY	4-PLY
TYPE	SPACING		NUMBER OF ROWS OF NAILS		
38x140 (2x6)	406 mm	16 in	2	2	2
38x184 (2x8)	406 mm	16 in	3	3	3
38x235 (2x10)	305 mm	12 in	4	4	4
38x286 (2x12)	305 mm	12 in	4	4	4
LVL	305 mm	12 in	4	4	4
NAIL SIZE			10d	16d	30d

1. NAILING PATTERN IS TYPICAL UNLESS NOTED OTHERWISE ON THE DRAWINGS.

15. CONTRACTOR SHALL NOT CUT, DRILL, NOTCH OR MODIFY THE FLOOR JOISTS EXCEPT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND REVIEWED BY STANTEC CONSULTING LTD.
16. AT ROOFS, FACE GRAIN OF PLYWOOD SHEETS ARE TO BE PERPENDICULAR TO SUPPORTING JOISTS OR DECKING.
17. END JOINTS OF PLYWOOD ARE TO BEAR ON SUPPORTING JOISTS OR STUDS AND BUTT ALONG THEIR CENTRE LINES SUCH THAT NAIL EDGE DISTANCE IS NOT LESS THAN 10 mm.
18. ROOF DECK 4 (RD4): INSTALL ROOF SHEATHING WITH PANEL END JOINTS LOCATED ON ROOF JOISTS AND STAGGERED AT LEAST TWO JOIST SPACES. PROVIDE PANEL EDGE SUPPORT USING TONGUE AND GROOVE EDGE JOINTS, PLYWOOD SHEATING CLIPS, OR 38x89 BLOCKING. FASTEN ROOFING WITH 8d COMMON WIRE NAILS SPACED AT 150 ON CENTRE ALONG PANEL EDGES AND SPACED AT 300mm ON CENTRE ALONG INTERMEDIATE SUPPORTS.
19. ROOF DECK 3 (RD3): INSTALL ROOF SHEATHING OVER TONGUE AND GROOVE DECKING WITH PANEL END JOINTS STAGGERED MIN 610 mm. AT MID ROOF FASTEN ROOFING WITH 6d COMMON WIRE NAILS SPACED AT 50 ON CENTRE ALONG PANEL EDGES AND SPACED AT 300mm ON CENTRE ALONG INTERMEDIATE SUPPORTS. AT UPPER ROOF FASTEN ROOFING WITH 6d COMMON WIRE NAILS SPACED AT 50 ON CENTRE ALONG PANEL EDGES AND SPACED AT 300mm ON CENTRE ALONG INTERMEDIATE SUPPORTS. FASTEN TONGUE AND GROOVE DECKING AS SHOWN IN DETAILS.
20. INSTALL WALL SHEATHING WITH PANEL END-JOINTS LOCATED ON VERTICAL WALL STUDS AND STAGGERED AT LEAST TWO STUD SPACES. PROVIDE 38 x 89 mm BACKING AT ALL UNSUPPORTED EDGES. FASTEN SHEATHING PER SHEAR WALL SCHEDULE ON PLANS.
21. STAPLES NOT PERMITTED FOR FASTENING OF SUBFLOORS OR SHEATHING.
22. FASTEN ALL WOOD MEMBERS WITH NAILS ACCORDING TO THE "NAILING FOR FRAMING" TABLE IN PART 9 OF THE BUILDING CODE, UNLESS NOTED OTHERWISE.
23. REFER TO THE NAIL SIZES TABLE FOR REQUIRED NAIL SIZES. WHEN USING NAIL GUNS, INCREASE NAIL SIZE TO ACHIEVE REQUIRED DIAMETER.

NAIL SIZES TABLE

NAILS	METRIC DIAMETER (mm)	METRIC LENGTH (mm)	IMPERIAL DIAMETER (in)	IMPERIAL LENGTH (in)
6d	2.87	51	0.120	2
8d	3.25	64	0.134	2 1/2
10d	3.66	76	0.148	3
12d	3.76	83	0.148	3 1/4
16d	4.06	89	0.165	3 1/2
20d	4.88	102	0.203	4
30d	5.26	114	0.220	4 1/2
40d	6.19	125	0.238	5
60d	6.67	152	0.238	6

1. NAILS SHALL BE OF THE ABOVE MINIMUM DIMENSIONS.
2. WHEN USING NAIL GUNS, INCREASE NAIL SIZE TO ACHIEVE THE REQUIRED DIAMETER.

24. ALL CONNECTION HARDWARE TO BE GALVANIZED AND FASTENED PER THE MANUFACTURER'S RECOMMENDATIONS TO DEVELOP THE FULL CAPACITY OF THE CONNECTOR. JOIST AND BEAM CONNECTIONS TO BE SADDLE TYPE HANGERS ONLY UNO.
25. STEEL CONNECTORS, PLATES, ANGLES, CHANNELS, BOLTS AND WASHERS EXPOSED IN EXTERIOR CONDITIONS BUT NOT IN DIRECT CONTACT WITH WET CONDITIONS OR GROUND SHALL BE HOT DIPPED GALVANIZED TO CSA G164, MINIMUM COATING 100 MICRONS UNO. STEEL CONNECTORS, PLATES ANGLES, CHANNELS, BOLTS AND WASHERS EXPOSED IN EXTERIOR WET CONDITIONS OR IN CONTACT WITH GROUND SHALL BE STAINLESS STEEL.

WOOD CONTINUED

26. CONNECTIONS PROVISIONS:
    1. BOLTS TO CONFORM TO ASTM A307 FOR WOOD TO WOOD AND WOOD TO STEEL CONNECTIONS.
    2. ANCHOR WALL PLATES TO CONCRETE FOUNDATION WITH 12.7mm DIAMETER X 200mm LONG ANCHOR BOLTS COMPLETE WITH NUT AND WASHER AT 1200mm ON CENTERS UNO. REFER TO SCHEDULE/DETAILS FOR REQUIREMENTS BEYOND THIS NOTE.
    3. FOR LAG SCREWS, DRILL LEAD HOLES FOR THE THREADED PORTION AND COUNTERBORE FOR THE UNTHREADED PORTION. LAG SCREWS SHALL BE TURNED WITH A WRENCH, NOT DRIVEN BY A HAMMER. DRILLING DIMENSIONS SHALL BE AS NOTED IN THE DRILL DIMENSIONS FOR LAG SCREWS TABLE.

DRILL DIMENSIONS FOR LAG SCREWS

DIMENSIONS	COUNTERBORE	LEAD HOLE		
		DENSE HARDWOODS	D. FIR-L	HEM-FIR, S-P-F, NORTHERN
DIAMETER	SAME AS SHANK	65 TO 85% OF SHANK	60 TO 75% OF SHANK	40 TO 70% OF SHANK
DEPTH	SAME AS SHANK	THREADED LENGTH	THREADED LENGTH	THREADED LENGTH

    4. BOLT HOLES SHALL BE ACCURATELY ALIGNED AND DRILLED 1~2mm LARGER THAN THE BOLT DIAMETER. OVERSIZED HOLES ARE NOT ALLOWED UNLESS INDICATED ON THE DRAWINGS.
    5. A STANDARD WASHER SHALL BE PROVIDED WHERE A BOLT OR LAG SCREW HEAD OR NUT BEARS DIRECTLY ON WOOD.
    6. ALL BOLTS AND LAG SCREWS IN AXIAL TENSION OR WITH A CALCULATED TENSION COMPONENT SHALL BE PROVIDED WITH STANDARD OGEE WASHERS OR PLATE WASHERS, UNDER HEADS AND NUTS.
    7. NO CHECKING OR SPLITTING ALLOWED AT AREAS TO BE BOLTED OR LAGGED.
27. ADHESIVES: WHERE CALLED FOR, SHALL CONFORM TO CGSB 71-GP-26M
28. USE THE CORROSION RESISTANT FASTENERS WHEN USED FOR APPLICATIONS TO TREATED WOOD OR EXPOSED TO WEATHER.
29. WOOD PRESERVATIVES:
    1. ALL WOOD IN CONTACT WITH GROUND OR CONCRETE, INCLUDING SILL PLATES, TO MEET CSA O80.1 UC4.1 GROUND CONTACT TREATMENT CATEGORY. ALL FASTENERS IN CONTACTS WITH TREATED LUMBER TO BE HOT DIP GALVANIZED.

WOOD CONNECTIONS

1. ALL WOOD TO WOOD, WOOD TO STEEL, AND STEEL TO WOOD CONNECTIONS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. DESIGN IN ACCORDANCE WITH CSA-O86 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.
2. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE YUKON FOR REVIEW PRIOR TO FABRICATION. ALSO SUBMIT A LETTER OF CONFIRMATION OF PROFESSIONAL ASSURANCE DESIGN AND COMMITMENT FOR FIELD REVIEW WITH SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO STRUCTURAL CONSULTANT.
3. THE SPECIALTY ENGINEER SHALL PROVIDE INSPECTION AND REVIEW SERVICES DURING MEMBER INSTALLATION AND SHALL PROVIDE A LETTER OF CONFIRMATION OF PROFESSIONAL ASSURANCE FIELD REVIEW AND A COMPLIANCE CERTIFICATE TO THE STRUCTURAL CONSULTANT STATING THAT THE INSTALLED CONNECTIONS ARE CAPABLE OF SUPPORTING ALL THE LOADS AND FORCES SPECIFIED IN THE CONTRACT SPECIFICATIONS AND ON THE DRAWINGS AND HAS BEEN CONSTRUCTED IN ACCORDANCE TO THE DESIGN AND SHOP DRAWINGS. THIS LETTERS SHALL BE SUBMITTED PRIOR TO COVERING UP THE MEMBERS.

STANDARD STRUCTURAL ABBREVIATIONS

AR or	A.ROD	ANCHOR ROD	FDN	FOUNDATION	PRCST	PRECAST
ADDL		ADDITIONAL	FS	FAR SIDE	PERIM	PERIMETER
ALT		ALTERNATE	FTG	FOOTING	PERP	PERPENDICULAR
ALUM		ALUMINUM	FTS	FULL TENSION SPLICE	PKG	PACKAGE
APPD		APPROVED	GA	GAUGE	PL	PLATE
APPROX	or ±	APPROXIMATELY	GALV	GALVANIZED	PLYWD	PLYWOOD
ARCH		ARCHITECT	GL	GLULAM	PL	PROPERTY LINE
B/B		BACK TO BACK	GR BM	GRADE BEAM	POLY	POLYETHYLENE
BOT		BOTTOM	H OR HT	HIGH OR HEIGHT	PROJ	PROJECT
BLK		BLOCK	H1E	HOOK ONE END	QTY	QUANTITY
BLL		BOTTOM LOWER LAYER	H2E	HOOK TWO ENDS	RAD	RADIUS
BM		BEAM	HORIZ	HORIZONTAL	R/W	REINFORCE WITH
BRG		BEARING	HR	HOUR	REINF	REINFORCING
BTWN		BETWEEN	ID	INSIDE DIAMETER	REM	REMAINDER
BU		BUILT-UP	I/F	INSIDE FACE	REQD	REQUIRED
BUL		BOTTOM UPPER LAYER	INCL	INCLUDING	RTU	ROOF TOP UNIT
C/W		COMPLETE WITH	INSUL	INSULATION	SDL	SUPER IMPOSED DEAD LOAD
CWN		COMPLETE WITH NAILS	INT	INTERIOR		
CANT		CANTILEVER	LG	LONG	SECT	SECTION
CIP		CAST IN PLACE	LOC	LOCATION	SIM	SIMILAR
CJ		CONTROL JOINT	LL	LIVE LOAD	SJ	SAWCUT JOINT
CL or	℄	CENTRELINE	LLH	LONG LEG HORIZONTAL	SOG	SLAB ON GRADE
CLR		CLEAR	LLV	LONG LEG VERTICAL	SPMDD	STANDARD PROCTOR MAXIMUM DRY DENSITY
COL		COLUMN	LONGIT	LONGITUDINAL		
CONC		CONCRETE	MAX	MAXIMUM	SQ	SQUARE
CONN		CONNECTION	MECH	MECHANICAL	SS	STAINLESS STEEL
CONT		CONTINUOUS	MEZZ	MEZZANINE	SST	SIMPSON STRONG TIE
D or DP		DEEP or DEPTH	MID	MIDDLE	STD	STANDARD
DET		DETAIL	MIN	MINIMUM	STIF	STIFFENER
DIA or Ø		DIAMETER	MISC	MISCELLANEOUS	STIR	STIRRUP
DIAG		DIAGONAL	MC	MOMENT CONNECTION	STRUCT	STRUCTURAL
DL		DEAD LOAD	NIC	NOT IN CONTRACT	SYMM	SYMMETRICAL
DO		DITTO	NS	NEAR SIDE	T&B	TOP & BOTTOM
DWG		DRAWING	N STUD	NELSON STUD	THK	THICK
DWL		DOWEL	NTS	NOT TO SCALE	TLL	TOP LOWER LAYER
EE		EACH END	NUM or #	NUMBER	T/O	TOP OF
EF		EACH FACE	O/C	ON CENTER	TUL	TOP UPPER LAYER
EJ		EXPANSION JOINT	OD	OUTSIDE DIAMETER	TYP	TYPICAL
ES		EACH SIDE	O/F	OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE
EW		EACH WAY	OPP	OPPOSITE		
EL		ELEVATION	OPNG	OPENING	U/S	UNDERSIDE
ELEC		ELECTRICAL	OWSJ	OPEN WEB STEEL JOIST	VERT	VERTICAL
EMBED		EMBEDDED			WP	WORKING POINT
EQ		EQUAL			W/	WITH
EXIST		EXISTING			WWM	WELDED WIRE MESH
EXT		EXTERIOR				

STRUCTURAL UNITS - METRIC (SI)

kg	KILOGRAM	MASS
kg/m	KILOGRAM PER METRE	MASS PER UNIT LENGTH
kg/m²	KILOGRAM PER METRE SQUARED	MASS PER UNIT AREA
kN	KILONEWTON	FORCE OR WEIGHT
kN/m	KILONEWTON PER METRE	LINEAR FORCE
kN/m²	KILONEWTON PER METRE SQUARED	FORCE PER UNIT AREA
kN-m	KILONEWTON METRE	MOMENT
kN-m/m	KILONEWTON METRE PER METRE	LINEAR MOMENT
kN/m³	KILONEWTON PER METRE CUBED	UNIT WEIGHT
kPa	KILOPASCAL	STRESS/PRESSURE
MPa	MEGAPASCAL	STRESS/PRESSURE
m	METRE	LINEAR LENGTH
mm	MILLIMETRE	LINEAR LENGTH
m²	METRE SQUARED	AREA
mm²	MILLIMETRE SQUARED	AREA
m³	METRE CUBED	VOLUME
Cf	COMPRESSION	kN
f 'c	SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS	MPa
Fy, fy	SPECIFIED MINIMUM YIELD STRESS OF STEEL	MPa
Mx	MOMENT (STRONG AXIS)	kN-m
My	MOMENT (WEAK AXIS)	kN-m
Tf	TENSION	kN
Tor	TORSION	kN-m
Vx	VERTICAL SHEAR (STRONG AXIS)	kN
Vy	VERTICAL SHEAR (WEAK AXIS)	kN

Stantec

Stantec Consulting Ltd.
200-325 25 Street SE
Calgary, AB T2A 7H8
Tel: (403) 716-8000

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Client/Project Logo

Keyplans

Notes

6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

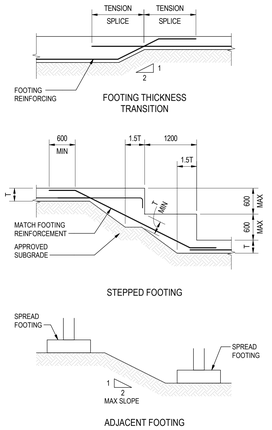
Title
GENERAL NOTES

Project No. 144214760

Scale

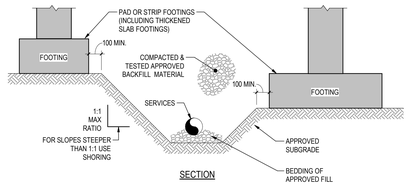
Revision 6

Drawing No. S002



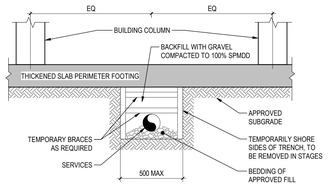
NOTES:
1. FOOTING ELEVATIONS NOTED ELSEWHERE SHALL BE LOWERED AS NECESSARY TO ENSURE CONDITIONS SHOWN ABOVE ARE SATISFIED.
2. DETAILS ALSO APPLY TO THICKENED SLAB FOOTINGS.

1 S003 TYPICAL STEPPED FOOTINGS AND ADJACENT FOOTINGS DETAILS
NTS



FOOTINGS ADJACENT TO MECHANICAL SERVICE LINES

NOTE:
IF NECESSARY FOOTING ELEVATIONS MUST BE ADJUSTED (LOWERED) TO ENSURE THE ABOVE CONDITIONS ARE NOT COMPROMISED REGARDLESS OF ELEVATIONS NOTED ELSEWHERE.

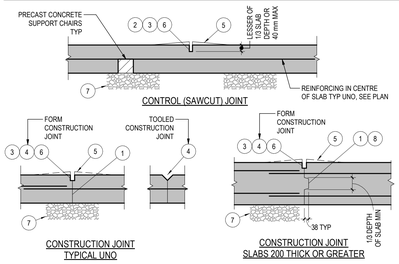


LOCATE MID DISTANCE BETWEEN COLUMNS

SECTION - MECHANICAL SERVICE LINES UNDER PERIMETER FOOTING

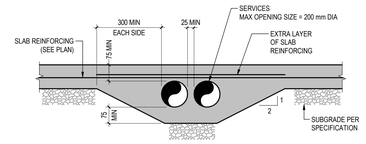
2 S003 TYPICAL FOOTING NEAR MECHANICAL SERVICES LINES
NTS

NOTE: CONTRACTOR TO SUBMIT DRAWINGS OF ALL CONSTRUCTION AND CONTROL JOINTS PRIOR TO PLACING OF SLABS



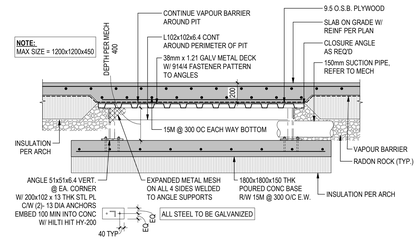
1. PROVIDE CONSTRUCTION JOINT AT MAX 24 m O/C.
2. PROVIDE CONTROL (SAWCUT) JOINT AT MAX 3.0 m O/C AND MAX 1.5 m FROM EDGE OF FOOTINGS. CUT SAWCUT JOINTS A MAXIMUM OF 4 TO 12 HRS (4 HOURS FOR HOT WEATHER TO 12 HRS FOR COLD WEATHER) AFTER PLACING SLAB.
3. CONSTRUCTION JOINT AND SAWCUT JOINTS PATTERNS MUST BE COORDINATED WITH CERAMIC, QUARRY TILE (OR SIMILAR FINISH) PATTERN JOINTS.
4. TOOL OR FORM ALL CONSTRUCTION JOINTS ON EXPOSED SLAB ON GRADE CONCRETE FLOORS.
5. GRIND LEVEL ALL UNEVEN SURFACES AT THE EDGE OF CONSTRUCTION JOINTS AND CONTROL (SAWCUT) JOINTS TO WITHIN SPECIFIED TOLERANCES.
6. JOINT SEALANT REQUIRED FOR ALL EXPOSED FLOORS, AND FOR FLOORS WITH CERAMIC TILE, QUARRY TILE, VINYL COMPOSITE TILE AND OTHER SIMILAR FINISHES WITH JOINT PATTERNS THROUGH THE FINISH. JOINT SEALANT NOT REQUIRED WITH CARPET FINISH.
7. SUBGRADE PER SPECIFICATIONS.
8. CONTINUOUS KEY.

3 S003 TYPICAL SLAB ON GRADE CONTROL JOINTS
NTS

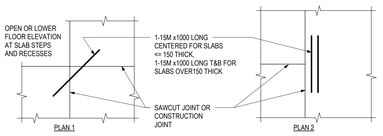


THICKENING OF SLAB ON GRADE AROUND SERVICES

4 S003 TYPICAL SLAB ON GRADE THICKENING DETAILS
NTS

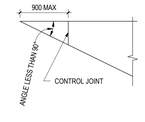


5 S003 TYPICAL RADON SUCTION PIT DETAIL
NTS



REINFORCING REQUIRED AT ALL 90° (RE-ENTRANT) CORNERS

NOTE
ARRANGE JOINTS TO COINCIDE WITH 90° CORNERS (OR AS DETAILED ON PLAN)

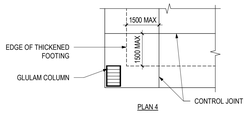


ACUTE ANGLES

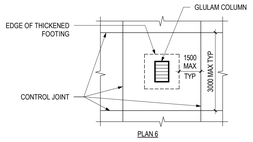
NOTE
AVOID ACUTE ANGLES WHEREVER POSSIBLE WHERE UNAVOIDABLE. PROVIDE CONTROL JOINT 900 mm FROM END.

DISCONTINOUS CONTROL JOINT

NOTE
AVOID DISCONTINOUS CONTROL JOINTS WHEREVER POSSIBLE. WHERE UNAVOIDABLE, PROVIDE ADDITIONAL REINFORCING.



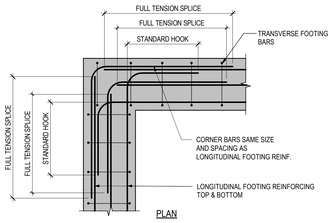
CONTROL JOINTS AT BUILDING PERIMERTER



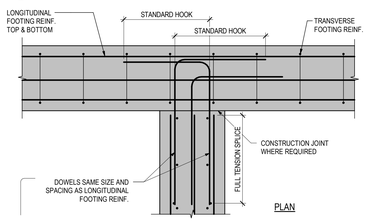
CONTROL JOINTS AT INTERIOR COLUMNS/FOOTINGS

NOTE: CONTRACTOR TO SUBMIT DRAWINGS OF ALL CONTROL JOINTS PRIOR TO PLACING OF SLABS

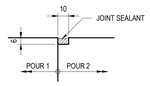
6 S003 TYPICAL SLAB ON GRADE CONTROL JOINT DETAILS
NTS



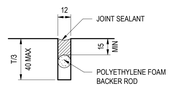
10 S003 TYPICAL REINFORCEMENT AT CORNER THICKENED FOOTING INTERSECTION
NTS



11 S003 TYPICAL REINFORCEMENT AT THICKENED FOOTING INTERSECTION
NTS

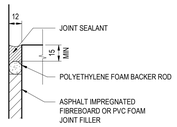


CONSTRUCTION JOINT SEALANT



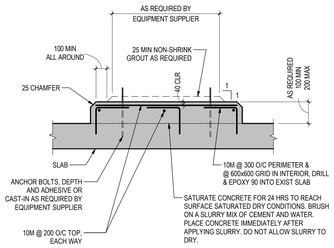
T = SLAB THICKNESS

CONTROL (SAWCUT) JOINT SEALANT



ISOLATION JOINT SEALANT

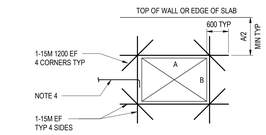
7 S003 TYPICAL JOINT AND SEALANT DETAIL FOR SLAB JOINTS
NTS



NOTES:

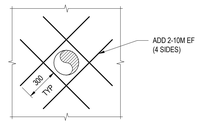
1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED UNLESS POST-INSTALLMENT IS INDICATED BY THE EQUIPMENT MANUFACTURER. GC TO COORDINATE ANCHOR REQUIREMENTS OF EQUIPMENT MANUFACTURER WITH SLAB POUR SEQUENCING E.G. PLACEMENT MAY BE REQUIRED AT TIME OF MAIN SLAB POUR.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
4. WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN, THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.
5. USE HILTI HIT HY 200 V3 SYSTEM FOR ALL REBAR FASTENING TO EXISTING CONCRETE SLAB.

8 S003 TYPICAL HOUSEKEEPING PAD FOR EQUIPMENT ON FLOOR SLABS
NTS



OPENING (A OR B) < 1800

NOTE:
1. THE NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT AT A MINIMUM. REPLACE CUT BARS WITH FULL LENGTH BARS OF EQUAL AREA, HALF ON EACH SIDE OF OPENING.
2. REINF BARS TO BE KEPT 50 CLEAR OF OPENING.
3. CIRCULAR OPENINGS TO BE TREATED IN SAME MANNER AS RECTANGULAR UNLESS OTHERWISE DETAILED.
4. PROVIDE STD HOOKS ON REINF CUT AT OPENING.

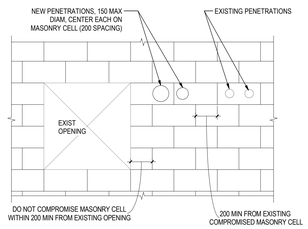


PIPE OPENING IN WALL AND SLAB
(FOR PIPE DIA < REINFORCING SPACING)

NOTE:

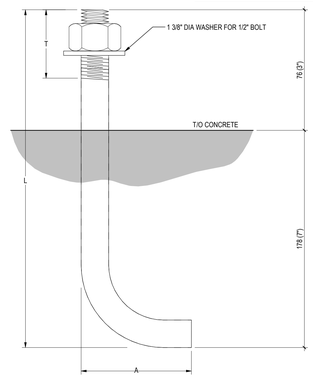
OPENINGS ARE NOT PERMITTED IN FOOTINGS (INCLUDING PERIMETER FOOTING) WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL CONSULTANT.

9 S003 ADDITIONAL REINFORCING AROUND WALL AND SLAB OPENINGS
NTS



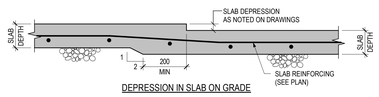
NOTE: SEE ALSO 5/M303.

14 S003 OPENING LIMITATIONS IN EXISTING MASONRY PARTITION (NON-STRUCTURAL) WALLS
NTS

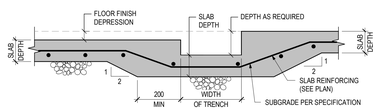


L-BOLT
(ASTM F1554 GRADE 36 HOT GALVANIZED)

16 S003 ANCHOR BOLT DETAIL
NTS



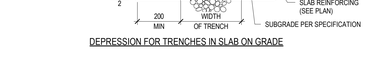
DEPRESSION IN SLAB ON GRADE



DEPRESSION FOR TRENCHES IN SLAB ON GRADE

13 S003 TYPICAL DEPRESSIONS IN SLAB ON GRADE DETAILS
NTS

12 S003 CAST IN PLACE ELECTRICAL BOXES
NTS



15 S003 TYPICAL EXTERIOR EQUIPMENT PADS
NTS SUCH AS GENERATOR PAD

Stantec

Stantec Consulting Ltd.
200-325 25 Street SE
Calgary, AB T2A 7H8
Tel: (403) 716-8000

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Client/Project Logo

Yukon University

Keyplans

Notes

4	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
3	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	JC	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

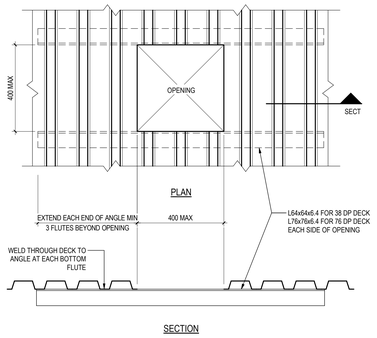
Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
TYPICAL DETAILS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. S003

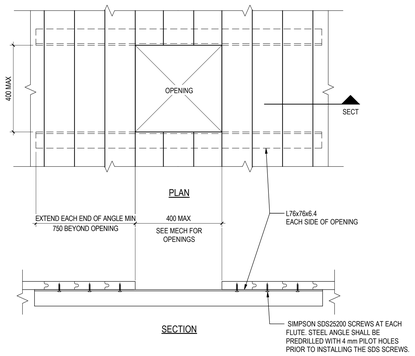
ORIGINAL SHEET - ISO A0



NOTE:
DETAIL NOT INTENDED FOR OPENINGS SUPPORTING MECHANICAL ITEMS EXERTING A TOTAL FORCE ON DECK GREATER THAN 1 kN. REINFORCE SUCH OPENINGS PER 3/ S004.

1 S004 TYPICAL OPENING THROUGH METAL DECK (400x400 MAX)

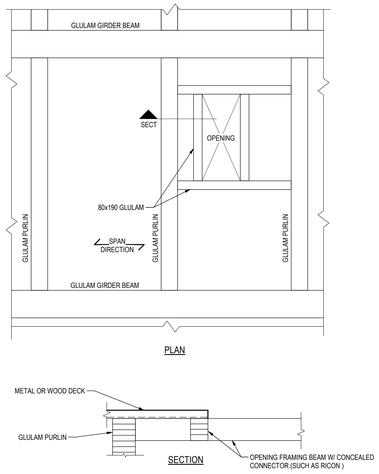
1 : 10



NOTE:
DETAIL NOT INTENDED FOR OPENINGS SUPPORTING MECHANICAL ITEMS EXERTING A TOTAL FORCE ON DECK GREATER THAN 1 kN. REINFORCE SUCH OPENINGS PER 3/ S004.

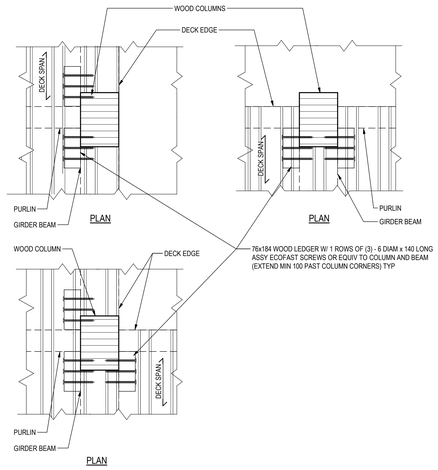
2 S004 TYPICAL OPENING THROUGH WOOD DECK (400x400 MAX)

1 : 10



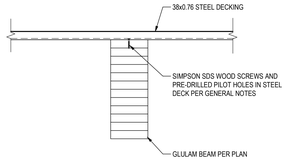
3 S004 TYPICAL OPENING THROUGH METAL DECK (1000X1000 MAX)

1 : 10



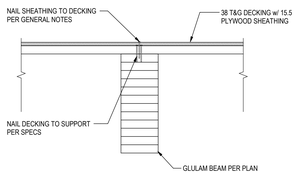
4 S004 TYPICAL METHOD OF SUPPORTING METAL DECK AROUND COLUMNS

NTS



5 S004 STEEL DECKING ATTACHMENT TO GLULAM

NTS



6 S004 WOOD DECKING ATTACHMENT TO GLULAM

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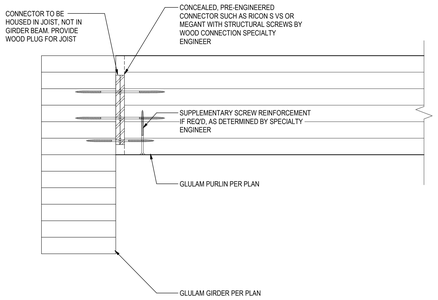
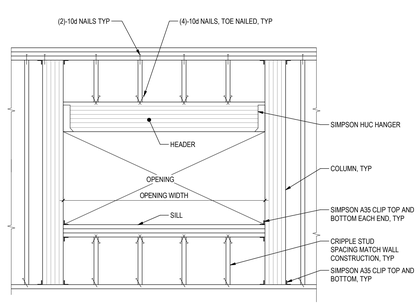


BEAMS ARE SLOPED FOR ROOF DRAINAGE, SEE ROOF PLAN FOR DECK ELEVATIONS. BEVEL CUT END OF BEAMS TO ACHIEVE SLOPES.

7 S004 TYPICAL GLULAM PURLIN BEAM TO GLULAM GIRDER BEAM CONNECTION

NTS

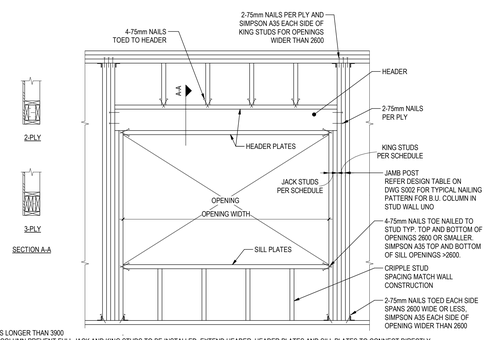


LONG SPAN HEADER SCHEDULE			
OPENING WIDTH (mm) (MAX)	HEADER SIZE	SILL SIZE	COLUMN SIZE
4200	130x304 GL	(3)-38X140 VERSA STUDS	130X304 GL
5600	130x418 GL	130X266 GL	130X342 GL

NOTES:
1. WHERE PRIMARY BUILDING FRAME COLUMN PREVENTS HEADER COLUMN INSTALLATION, EXTEND HEADER LENGTH AND CONNECT DIRECTLY TO PRIMARY BUILDING FRAME COLUMN.

8 S004 TYPICAL HEADER DETAIL FOR LONG SPANS

NTS



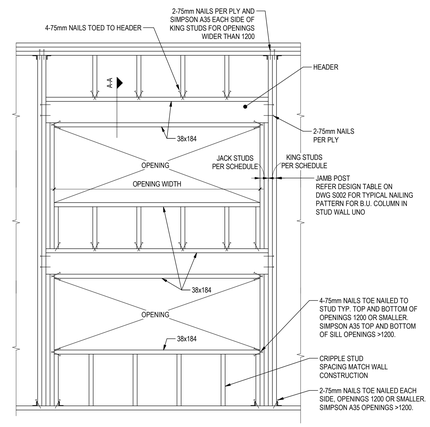
NOTES:
1. FOR HEADERS LONGER THAN 3900
WHERE GLULAM COLUMN PREVENT FULL JACK AND KING STUDS TO BE INSTALLED, EXTEND HEADER, HEADER PLATES AND SILL PLATES TO CONNECT DIRECTLY TO THE GLULAM COLUMN. PROVIDE SIMPSON HUC (WIDTH = 140MM) HANGER FROM HEADER TO GLULAM COLUMN.

EXTERIOR WOOD WALL HEADER SCHEDULE					
OPENING WIDTH (mm) (MAX)	HEADER SIZE	JACK STUDS	KING STUDS	HEADER PLATES	SILL PLATES
2100	(2) 38x184	2	3	(1) 38x140 TOP AND BOTTOM	(1) 38x140
2600	(3) 38x184	2	4	(1) 38x140 TOP AND BOTTOM	(1) 38x140
3400	(3) 38x235	2	5	(1) 38x140 TOP AND BOTTOM	(2) 38x140
3900	(3) 38x286	2	(5) 30x140 1.7 E VERSA STUDS	(1) 38x140 TOP AND (2) 38x140 BOTTOM	(3) 38x140

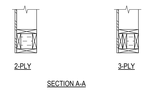
NOTES:
1. FOR HEADERS LONGER THAN 3900, SEE DETAIL 8/ S004.
2. WHERE GLULAM COLUMNS PREVENT FULL JACK AND KING STUDS TO BE INSTALLED, EXTEND HEADER, HEADER PLATES AND SILL PLATES TO CONNECT DIRECTLY TO THE GLULAM COLUMN. PROVIDE SIMPSON HUC (WIDTH = 140mm) HANGER FROM HEADER TO GLULAM COLUMN.

11 S004 TYPICAL HEADER DETAIL FOR 140 WIDE EXTERIOR WALLS

NTS



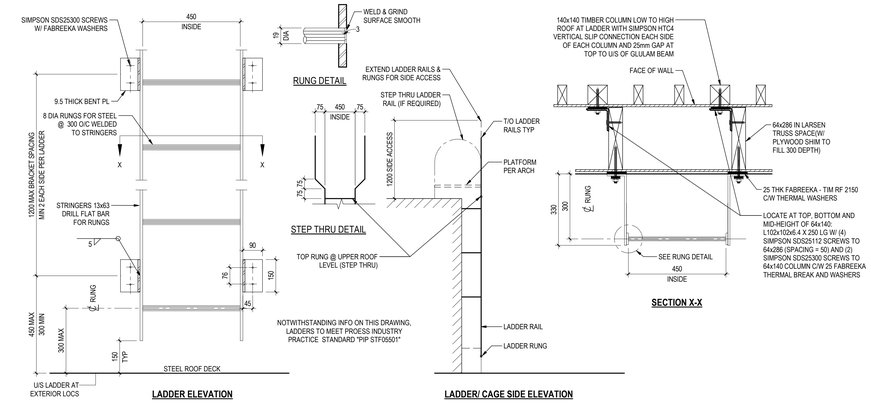
EXTERIOR WOOD WALL HEADER SCHEDULE			
OPENING WIDTH (mm) (MAX)	HEADER SIZE	JACK STUDS	KING STUDS
600	(2) 38x184	(2) - 38X184 1.7E VERSA STUDS	(2) - 38X184 1.7E VERSA STUDS
1200	(2) 38x184	(2) - 38X184 1.7E VERSA STUDS	(2) - 38X184 1.7E VERSA STUDS
2200	(3) 38x184	(2) - 38X184 1.7E VERSA STUDS	(3) - 38X184 1.7E VERSA STUDS



NOTES:
1. WHERE GLULAM COLUMNS PREVENT FULL JACK AND KING STUDS TO BE INSTALLED, EXTEND HEADER, HEADER PLATES AND SILL PLATES TO CONNECT DIRECTLY TO THE GLULAM COLUMN. PROVIDE SIMPSON HUC (WIDTH = 181mm) HANGER FROM HEADER TO GLULAM COLUMN.

12 S004 TYPICAL HEADER DETAIL FOR 184 WIDE EXTERIOR WALLS

NTS



NOTES:
1. REFER TO ARCH DRAWINGS FOR EXTENT OF LADDER.
2. ALL EXTERIOR STEEL TO BE GALVANIZED.
3. REFER TO ARCH 6/A511 FOR FURTHER DETAILING.

10 S004 TYPICAL STEEL LADDER DETAIL

NTS

Stantec

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Calgary, AB T2A 7H8
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Client/Project Logo

Yukon University

Keyplans

Notes

4	IFR-ISSUED FOR TENDER	JW	GB	2024.08.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR IFR SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14

Issued & Revision

File Name: N/A	JC	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
TYPICAL DETAILS

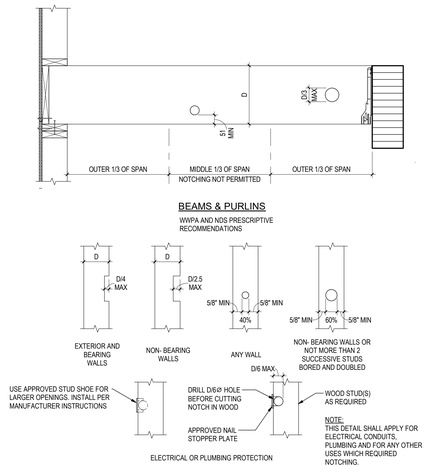
Project No. 144214760

Scale As indicated

Revision 6

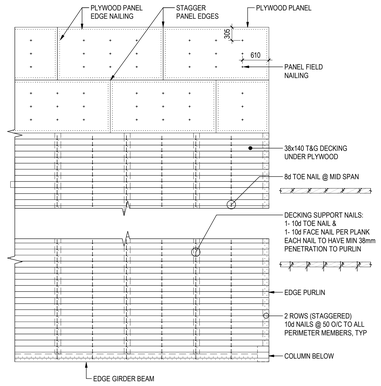
Drawing No. **S004**

ORIGINAL SHEET - ISO A0



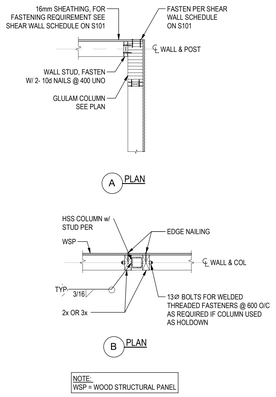
1 S005 NOTCHES AND PENETRATIONS IN SAWN LUMBER JOISTS AND STUDS

NTS



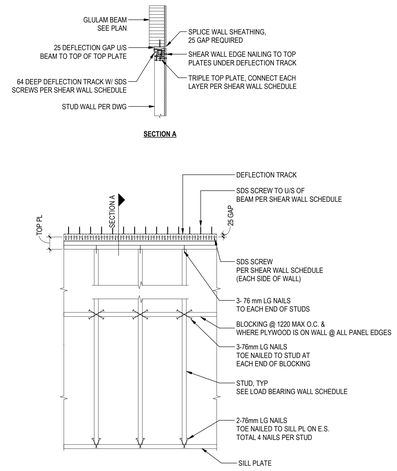
2 S005 DIAPHRAGM NAILING DETAIL

NTS



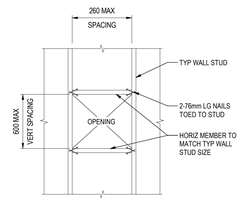
3 S005 WALL INTERSECTION AT POSTS AND COLUMNS

NTS



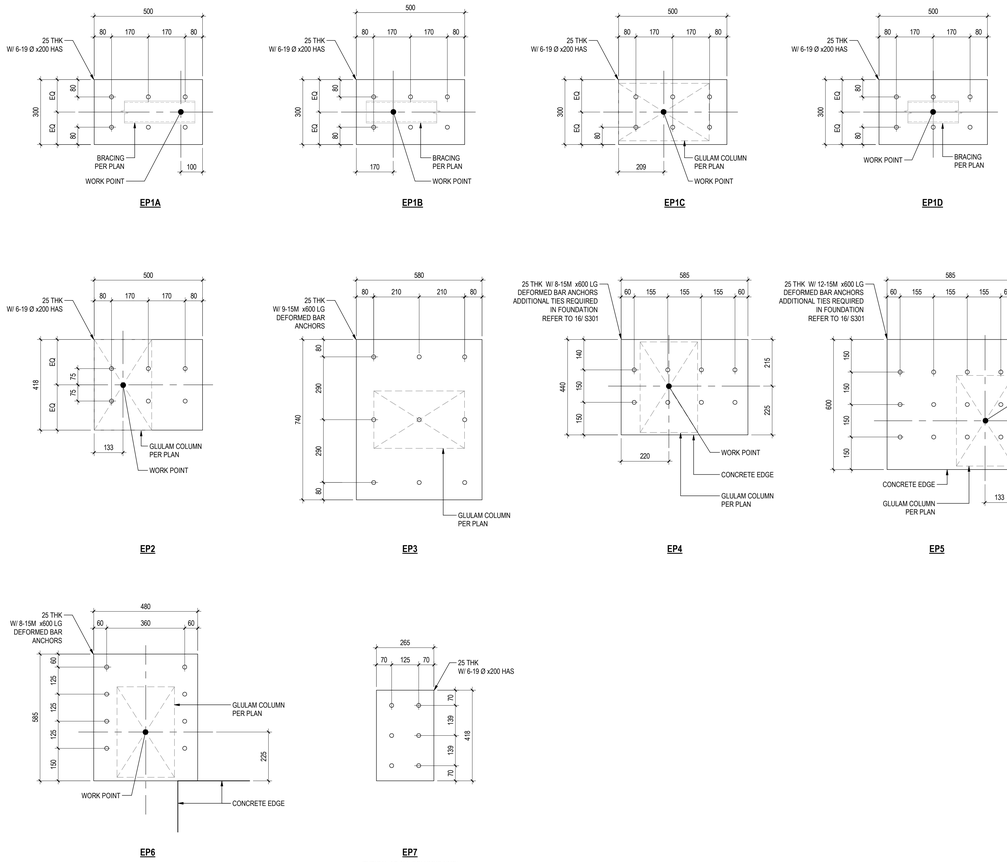
4 S005 TYPICAL STUD WALL DETAIL

NTS



5 S005 TYP. SMALL WALL OPENING (MAX. SIZE 260x600)

NTS



6 S005 TYPICAL EMBED PLATE DETAIL

1 : 10

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Keyplans

Notes

4	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	JC	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
TYPICAL DETAILS

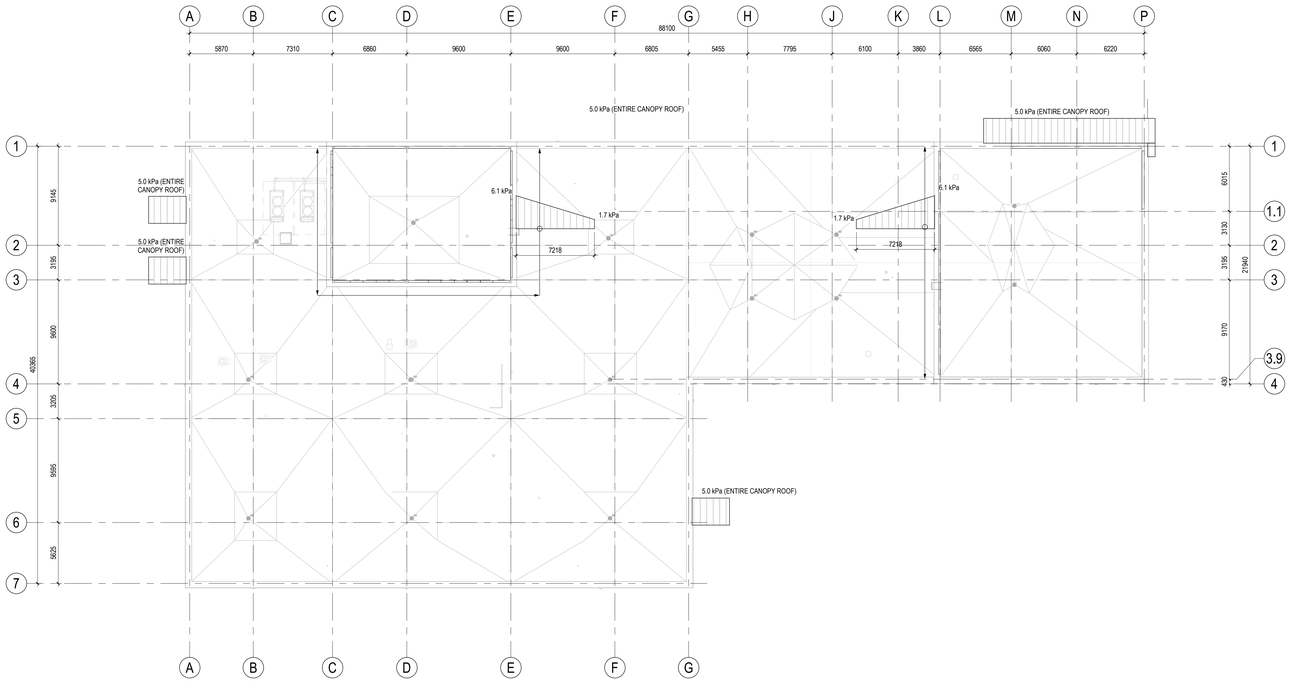
Project No. 144214760

Scale As indicated

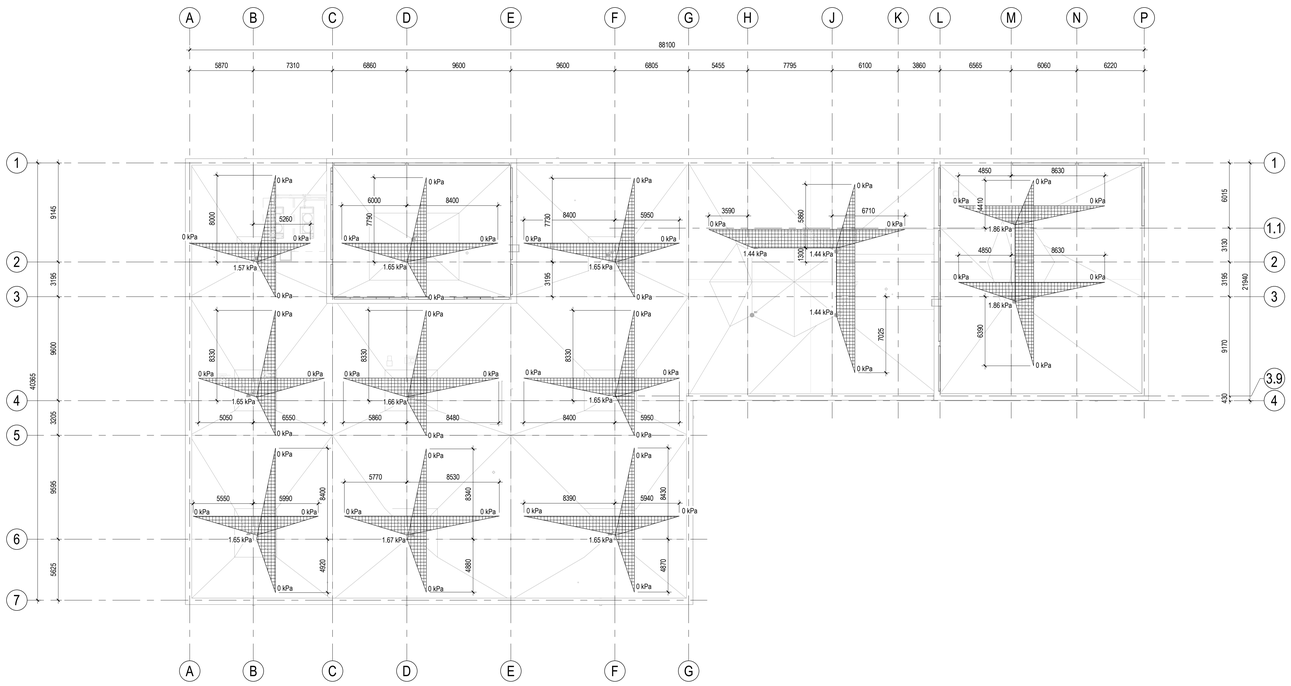
Revision 6

Drawing No. S005

ORIGINAL SHEET - ISO A0

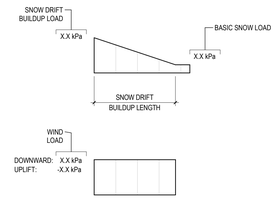


1 / S010 SNOW LOADING PLAN
1 : 200



2 / S010 RAIN PONDING PLAN
1 : 200

LEGEND



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2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
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File Name: N/A	DA	GB	RS	2022.12.15
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Polaris Project

Title
LOADING PLANS

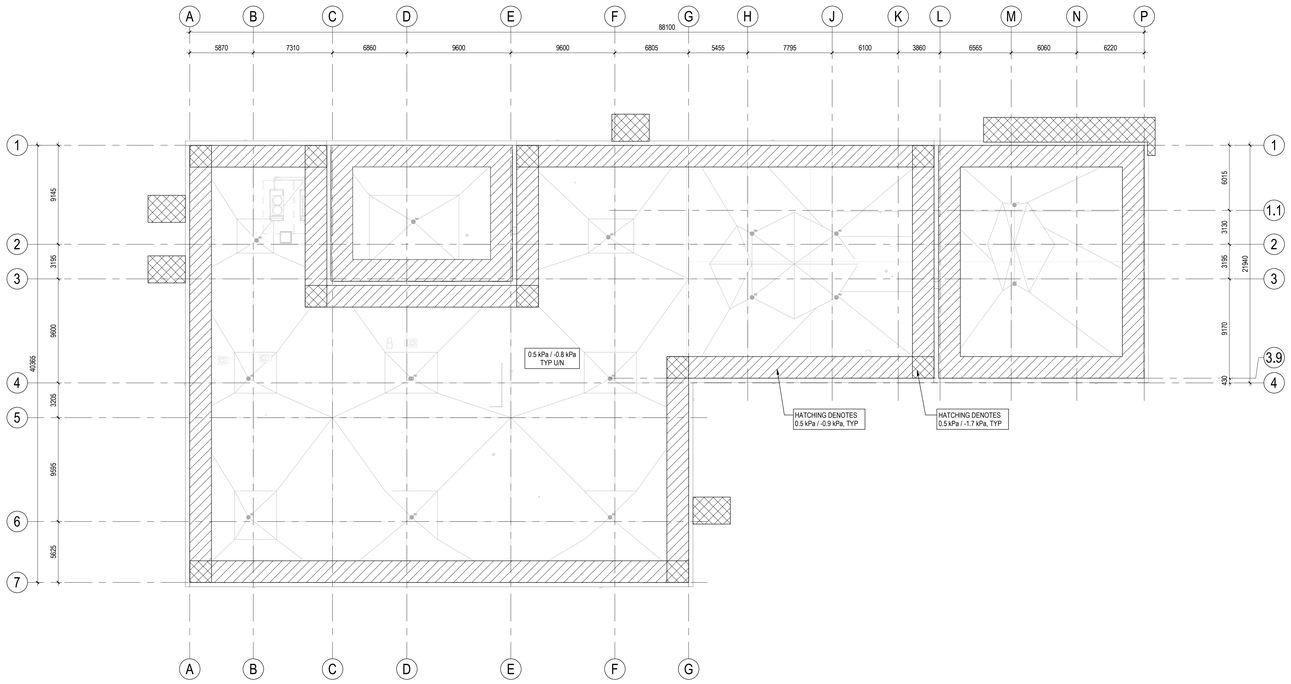
Project No. 144214760

Scale As indicated

Revision 6

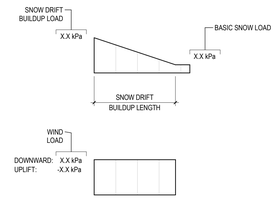
Drawing No. **S010**

ORIGINAL SHEET - ISO A0



1 S011 **WIND LOADING PLAN**
1 : 200

LEGEND



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1	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
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File Name: N/A	DA	GB	RS	2024.02.07
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Polaris Project

Title
LOADING PLANS

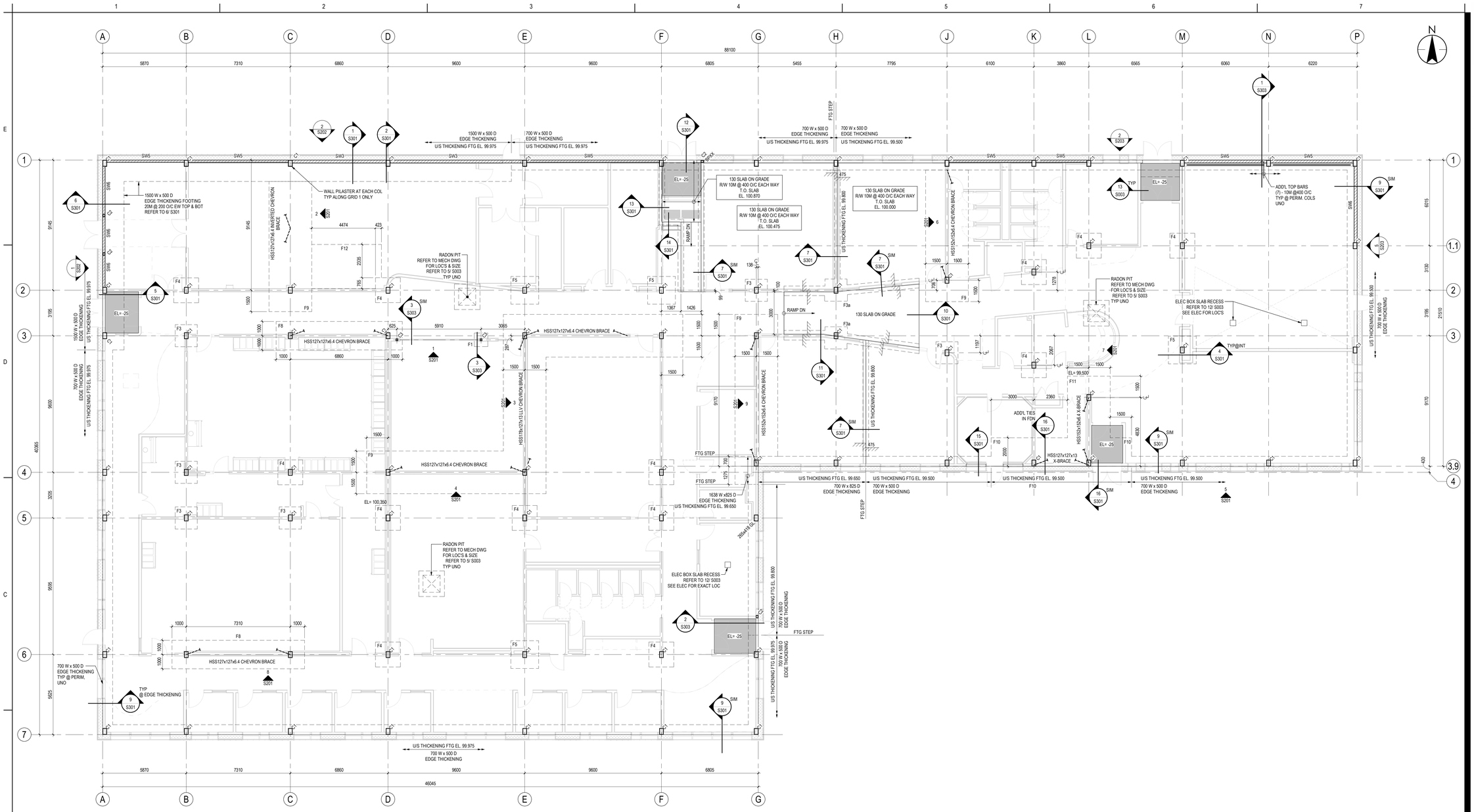
Project No.
144214760

Scale
As indicated

Revision
4

Drawing No.
S011

ORIGINAL SHEET - ISO A0



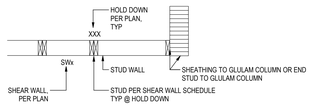
1 FOUNDATION AND MAIN FLOOR PLAN

S101 1 : 100

WOOD SHEAR WALL SCHEDULE

MARK	SHEAR CAPACITY	SHEATHING	FASTENERS @ PANEL EDGES	STUDS @ ADJOINING PANEL EDGES	STUDS NOT @ PANEL EDGES	ANCHOR BOLTS TO FOUNDATION	SLIP TRACK CONNECTION TO U/S OF BEAM	SLIP TRACK CONNECTION TO EACH SIDE OF TOP PLATE	BOTTOM PLATE CONNECTION THRU STEEL DECK TO BEAM BELOW	SHEATHING TO GLULAM COLUMN OR END STUB TO GLULAM COLUMN	TOP PLATE TO TOP PLATE CONNECTION
SW1	3.00 kN/m	16 PLYWOOD	8d NAILS @ 150 O/C	UNBLOCKED	38x	13 DIA @ 1200 O/C	SDS25300 SCREW @ 600	SDS25125 SCREWS @ 400	SDS25600 SCREWS @ 400	2-10d NAILS @ 300 O/C	2-8d NAILS @ 300 or SDS25600 @ 600
SW2	5.47 kN/m	16 PLYWOOD	10d NAILS @ 150 O/C	38x	38x	13 DIA @ 700 O/C	SDS25300 SCREW @ 400	SDS25125 SCREWS @ 400	SDS25600 SCREWS @ 400	2-10d NAILS @ 300 O/C	2-10d NAILS @ 300 or SDS25600 @ 400
SW3	8.12 kN/m	16 PLYWOOD	10d NAILS @ 100 O/C	38x	38x	13 DIA @ 475 O/C	SDS25300 SCREW @ 275	SDS25125 SCREWS @ 400	SDS25600 SCREWS @ 275	2-10d NAILS @ 200 O/C	2-10d NAILS @ 200 or SDS25600 @ 275
SW4	11.62 kN/m	16 PLYWOOD	10d NAILS @ 75 O/C	64x OR 2-PLY 38x[2]	38x	13 DIA @ 325 O/C	2- SDS25300 SCREW @ 375	SDS25125 SCREWS @ 400	2- SDS25600 SCREWS @ 375	3-10d NAILS @ 150 O/C	2-10d NAILS @ 150 or 2-SDS25600 @ 375
SW5	15.08 kN/m	16 PLYWOOD	10d NAILS @ 50 O/C	64x OR 2-PLY 38x[2]	38x	13 DIA @ 250 O/C	2- SDS25300 SCREW @ 300	SDS25125 SCREWS @ 400	2- SDS25600 SCREWS @ 300	3-10d NAILS @ 150 O/C	3-10d NAILS @ 150 or 2-SDS25600 @ 300
SW6	26.02 kN/m	16 PLYWOOD (BOTH SIDES OF WALL)	10d NAILS @ 100 O/C	64x OR 2-PLY 38x[2]	38x	19 DIA @ 200 O/C	2- SDS25300 SCREW @ 175	SDS25125 SCREWS @ 300	2- SDS25600 SCREWS @ 175	3-10d NAILS @ 75 O/C	2-10d NAILS @ 150 or 2-SDS25600 @ 375

NOTES:
1. NAIL SPACING @ 300 O/C ALONG INTERMEDIATE FRAMING MEMBERS.
2. **ALL EXTERIOR WALLS SHALL BE SW1 SHEARWALLS, UNLESS NOTED OTHERWISE.**
3. STAGGER ALL SHEATHING JOINTS AND SILL PLATE NAILING.
4. 13Ø ANCHOR BOLTS MAY BE REPLACED WITH SIMPSON 13Ø (x114 EMBEDMENT) TITEN HD ANCHORS @ EQUAL SPACING.
5. SIMPSON HOLD-DOWNS SHALL BE AS NOTED ON ELEVATION VIEWS AND INSTALLED PER MANUFACTURER INSTRUCTIONS.
6. ALL PLYWOOD PANEL EDGES SHALL BE BLOCKED (EXCEPT AT SW1). BLOCKING SHALL MATCH THE STUDS AT THE ADJOINING PANEL EDGES.
7. (2)- 38x MEMBERS MAY BE SUBSTITUTED FOR SINGLE 64x MEMBERS. PROVIDED THEY ARE FASTENED TOGETHER WITH NAILING EQUIVALENT TO THE PANEL EDGE NAILING.
8. ANCHOR BOLTS TO BE INSTALLED WITHIN MINIMUM OF 150 FROM EACH END OF EVERY SHEAR WALL.



SHEAR WALL LEGEND

CONCRETE FOOTING SCHEDULE

MARK	WIDTH (mm)	LENGTH (mm)	THICKNESS (mm)	REINFORCING
F1	600	600	250	3-15M EW H2E BOT
F3	1200	1200	300	5-15M EW H2E BOT
F3a	1200	1200	VARIES (U/S FTG EL. 99.800)	5-15M EW H2E BOT
F4	1400	1400	300	6-15M EW H2E BOT
F5	1600	1600	300	6-15M EW BOT
F8	2000	REFER TO PLAN	500	20M @ 200 O/C EW TOP & BOT
F9	3000	REFER TO PLAN	500	20M @ 200 O/C EW TOP & BOT
F10	2000	REFER TO PLAN	500	20M @ 100 O/C EW TOP & BOT
F11	3000	REFER TO PLAN	500	20M @ 100 O/C EW TOP & BOT
F12	REFER TO PLAN	REFER TO PLAN	500	20M @ 200 O/C EW TOP & BOT

NOTE: ALL FOOTINGS TO BE FORMED AS SLAB THICKENINGS.

COLUMN SCHEDULE

MARK	COL SIZE	REMARK
C1	265x418 GL	GLULAM COLUMN
C2	HSS 178x127x13	STEEL COLUMN
C3	HSS127x127x13	STEEL COLUMN

COLUMN UPLIFT FORCES

COLUMN LOCATION (GRID INTERSECTION)	MAX FACTORED UPLIFT FORCE (kN)
2A	115
1P	100
1M	70
1L	45
1J	120
1C	75
1A	110
1.1P	80

NOTES:
1. LOADS ARE PROVIDED FOR THE DESIGN OF THE WOOD COLUMN TO THE STEEL BASE BY THE WOOD CONNECTION SPECIALTY ENGINEER.
2. COLUMN LOCATIONS NOT NOTED IN THE TABLE DO NOT HAVE UPLIFT LOADS.

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Keyplans

Notes
1. SOUTHWEST CORNER OF BUILDING IS LOCATED OVER EXISTING FILL. REFER TO GEOTECH REPORT FOR OVEREXCAVATION AND BACKFILLING REQUIREMENTS.
2. VAPOUR BARRIER MEMBRANE UNDER SLAB ON GRADE NOT TO BE PERFORATED/PENETRATED FOR SCREED RAIL SUPPORTS.

6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.04
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 70% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16
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File Name: N/A		DA	GB	RS	2022.12.15
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
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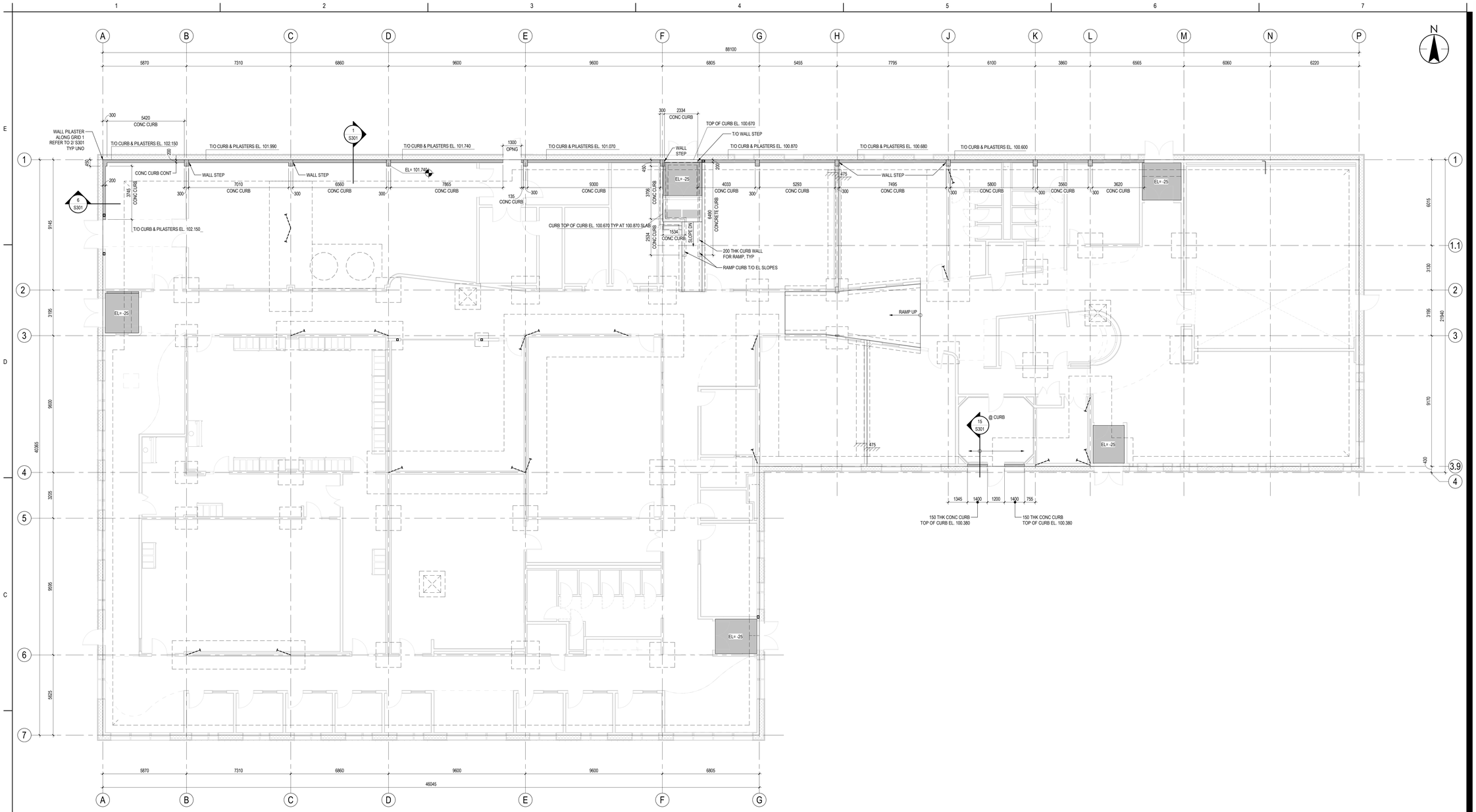
Polaris Project

Title
FOUNDATION AND MAIN FLOOR PLAN

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. S101

ORIGINAL SHEET - ISO A0



1 S102 CONCRETE CURB PLAN

1 : 100

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Keyplans

Notes

5	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
4	ISSUED FOR TENDER	JW	GB	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
2	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
1	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
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File Name: N/A	DA	GB	RS	2023.01.20
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
CONCRETE CURB LAYOUT PLAN

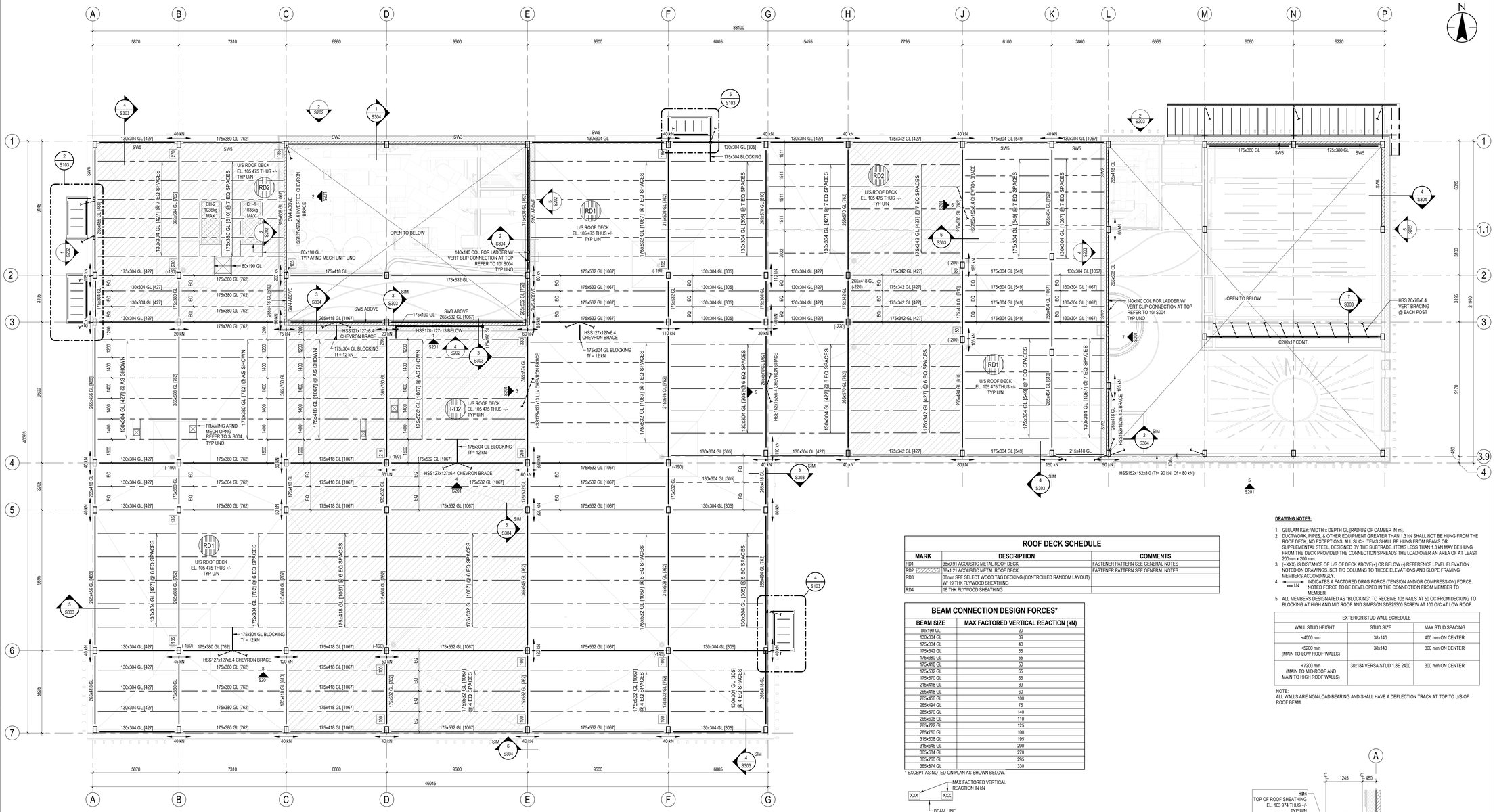
Project No. 144214760

Scale 1 : 100

Revision 5

Drawing No. **S102**

ISO A0 (841 x 1189) ISO A1 (594 x 841) ISO A2 (420 x 594) ISO A3 (297 x 420) ISO A4 (210 x 297)
ORIGINAL SHEET - ISO A2



1 LOW ROOF FRAMING PLAN
S103 1 : 100

ROOF DECK SCHEDULE

MARK	DESCRIPTION	COMMENTS
RD1	38x0.91 ACOUSTIC METAL ROOF DECK	FASTENER PATTERN SEE GENERAL NOTES
RD2	38x1.21 ACOUSTIC METAL ROOF DECK	FASTENER PATTERN SEE GENERAL NOTES
RD3	38mm SPF SELECT WOOD T&G DECKING (CONTROLLED RANDOM LAYOUT) W/ 19 THK PLYWOOD SHEATHING	
RD4	16 THK PLYWOOD SHEATHING	

BEAM CONNECTION DESIGN FORCES*

BEAM SIZE	MAX FACTORED VERTICAL REACTION (kN)
80x190 GL	20
130x304 GL	39
175x304 GL	40
175x342 GL	55
175x380 GL	55
175x418 GL	50
175x532 GL	65
175x570 GL	65
215x418 GL	39
265x418 GL	60
265x456 GL	100
265x494 GL	75
265x570 GL	140
265x608 GL	110
265x722 GL	125
265x760 GL	100
315x608 GL	195
315x646 GL	200
365x684 GL	270
365x760 GL	295
365x874 GL	330

* EXCEPT AS NOTED ON PLAN AS SHOWN BELOW.

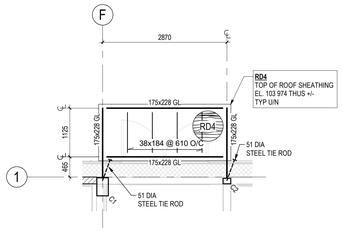
XXX — MAX FACTORED VERTICAL REACTION IN kN
XXX — BEAM LINE

DRAWING NOTES:

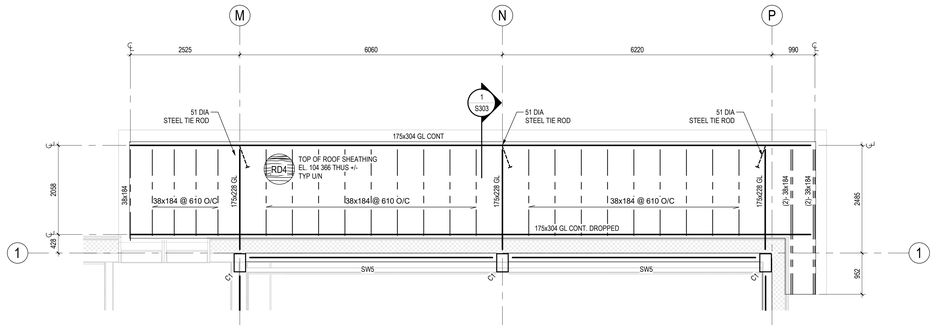
1. GLULAM KEY: WIDTH x DEPTH GL [RADIUS OF CAMBER IN m].
2. DUCTWORK, PIPES, & OTHER EQUIPMENT GREATER THAN 1.3 kN SHALL NOT BE HUNG FROM THE ROOF DECK, NO EXCEPTIONS. ALL SUCH ITEMS SHALL BE HUNG FROM BEAMS OR SUPPLEMENTAL STEEL, DESIGNED BY THE SUBTRADE. ITEMS LESS THAN 1.3 kN MAY BE HUNG FROM THE DECK PROVIDED THE CONNECTION SPREADS THE LOAD OVER AN AREA OF AT LEAST 200mm x 200 mm.
3. (±XXX) IS DISTANCE OF U/S OF DECK ABOVE(+) OR BELOW (-) REFERENCE LEVEL ELEVATION NOTED ON DRAWINGS. SET T/O COLUMNS TO THESE ELEVATIONS AND SLOPE FRAMING MEMBERS ACCORDINGLY.
4. xxx kN — INDICATES A FACTORED DRAG FORCE (TENSION AND/OR COMPRESSION) FORCE. NOTED FORCE TO BE DEVELOPED IN THE CONNECTION FROM MEMBER TO MEMBER.
5. ALL MEMBERS DESIGNATED AS "BLOCKING" TO RECEIVE 10d NAILS AT 50 OC FROM DECKING TO BLOCKING AT HIGH AND MID ROOF AND SIMPSON SDS25300 SCREW AT 100 O/C AT LOW ROOF.

EXTERIOR STUD WALL SCHEDULE		
WALL STUD HEIGHT	STUD SIZE	MAX STUD SPACING
<4000 mm	38x140	400 mm ON CENTER
<5200 mm (MAIN TO LOW ROOF WALLS)	38x140	300 mm ON CENTER
<7200 mm (MAIN TO MID-ROOF AND MAIN TO HIGH ROOF WALLS)	38x184 VERSA STUD 1.8E 2400	300 mm ON CENTER

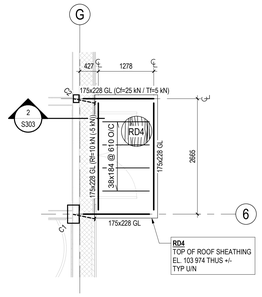
NOTE:
ALL WALLS ARE NON-LOAD BEARING AND SHALL HAVE A DEFLECTION TRACK AT TOP TO U/S OF ROOF BEAM.



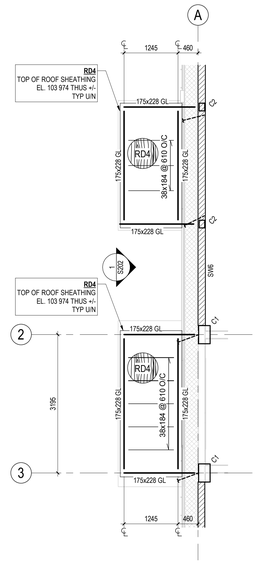
5 NORTH CANOPY FRAMING PLAN
S103 1 : 50



3 MAIN ENTRANCE CANOPY FRAMING PLAN
S103 1 : 50



4 EAST CANOPY FRAMING PLAN
S103 1 : 50



2 WEST CANOPY FRAMING PLAN
S103 1 : 50

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3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
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			2022.12.15 YYYY.MM.DD

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Client/Project
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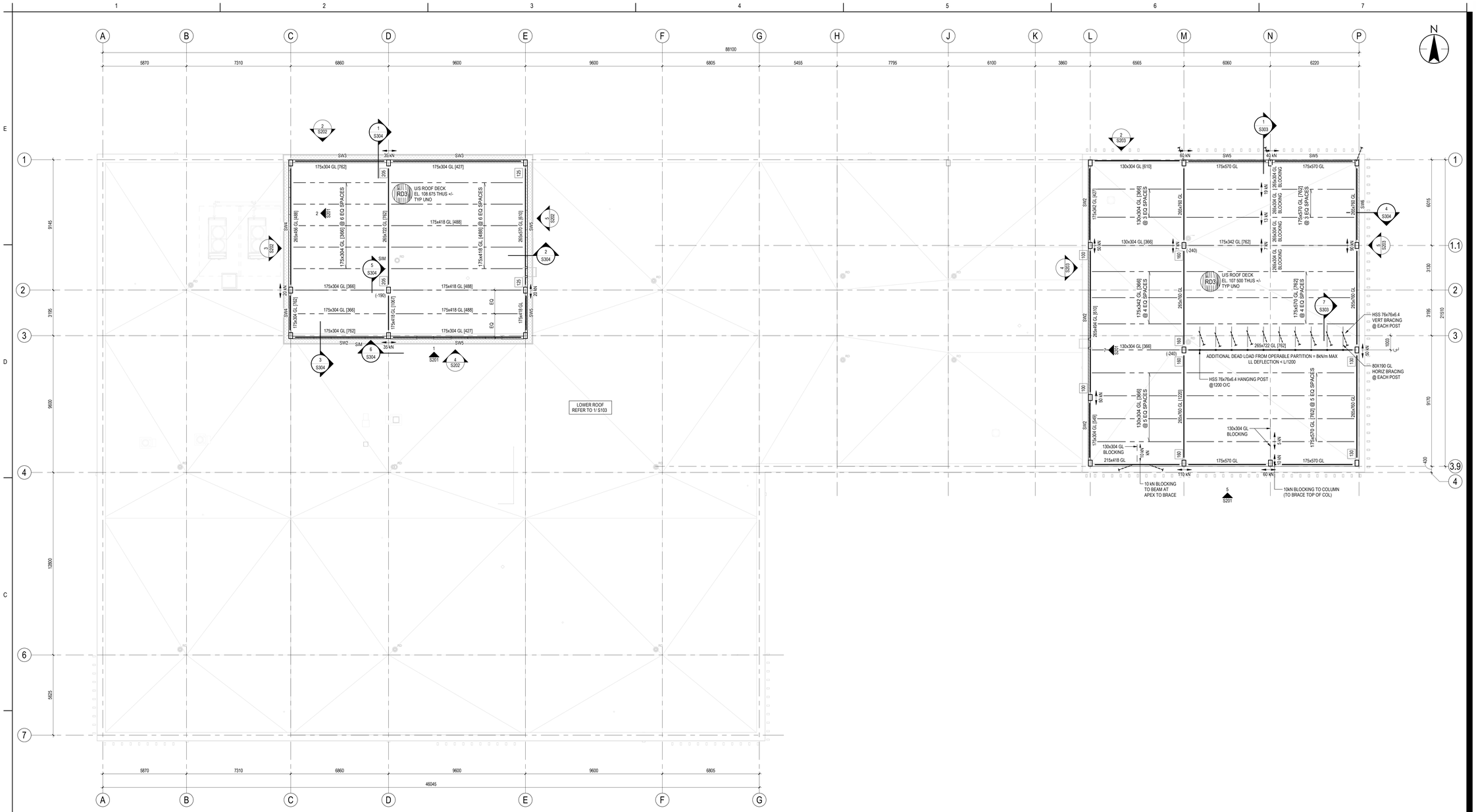
Polaris Project

Title
LOW ROOF FRAMING PLAN

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **S103**

ORIGINAL SHEET - ISO A0



3 / S104 MID AND HIGH ROOF FRAMING PLAN

1 : 100

DRAWING NOTES:

1. GLULAM KEY: WIDTH x DEPTH GL [RADIUS OF CAMBER IN m].
2. DUCTWORK, PIPES, & OTHER EQUIPMENT GREATER THAN 1.3 kN SHALL NOT BE HUNG FROM THE ROOF DECK. NO EXCEPTIONS. ALL SUCH ITEMS SHALL BE HUNG FROM BEAMS OR SUPPLEMENTAL STEEL, DESIGNED BY THE SUBTRADE. ITEMS LESS THAN 1.3 kN MAY BE HUNG FROM THE DECK PROVIDED THE CONNECTION SPREADS THE LOAD OVER AN AREA OF AT LEAST 200mm x 200 mm.
3. (±XXX) IS DISTANCE OF U/S OF DECK ABOVE(+) OR BELOW (-) REFERENCE LEVEL ELEVATION NOTED ON DRAWINGS. SET T/O COLUMNS TO THESE ELEVATIONS AND SLOPE FRAMING MEMBERS ACCORDINGLY.
4. ←xxx kN→ INDICATES A FACTORED DRAG FORCE (TENSION AND/OR COMPRESSION) FORCE. NOTED FORCE TO BE DEVELOPED IN THE CONNECTION FROM MEMBER TO MEMBER.
5. ALL MEMBERS DESIGNATED AS "BLOCKING" TO RECEIVE 10d NAILS AT 50 OC FROM DECKING TO BLOCKING AT HIGH AND MID ROOF AND SIMPSON SDS25300 SCREW AT 100 O/C AT LOW ROOF.

ROOF DECK SCHEDULE

MARK	DESCRIPTION	COMMENTS
RD1	38x0.91 ACOUSTIC METAL ROOF DECK	FASTENER PATTERN SEE GENERAL NOTES
RD2	38x1.21 ACOUSTIC METAL ROOF DECK	FASTENER PATTERN SEE GENERAL NOTES
RD3	38mm SPF SELECT WOOD T&G DECKING (CONTROLLED RANDOM LAYOUT) W/ 19 THK PLYWOOD SHEATHING	
RD4	16 THK PLYWOOD SHEATHING	

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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
HIGH ROOF FRAMING PLAN

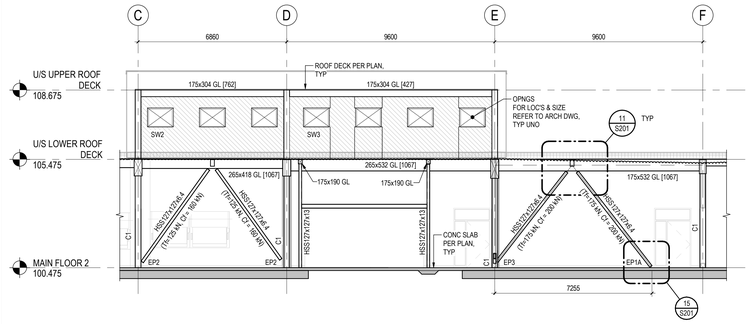
Project No. 144214760

Scale As indicated

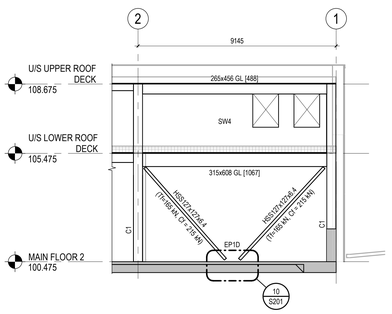
Revision 6

Drawing No. **S104**

ORIGINAL SHEET - ISO A0



1 S201 **ELEVATION ALONG GRID 3**
1 : 100



2 S201 **ELEVATION ALONG GRID C**
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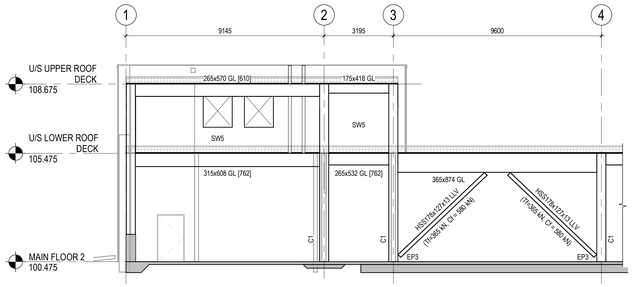

3 S201 **ELEVATION ALONG GRID E**
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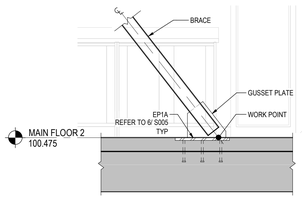
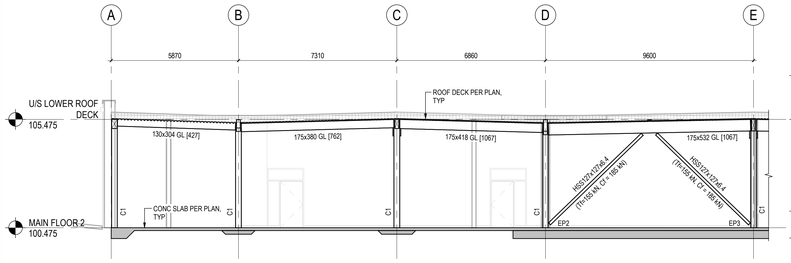


15 S201 **DETAIL**
1 : 20



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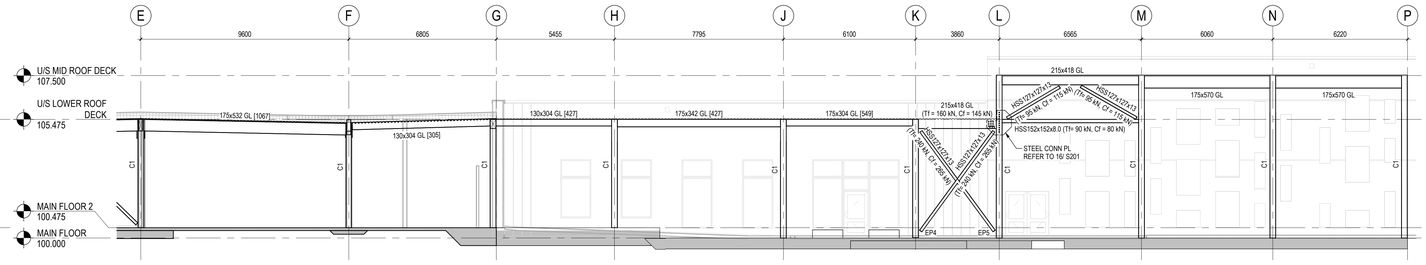

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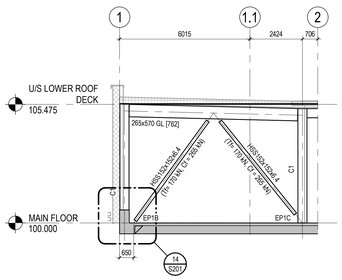

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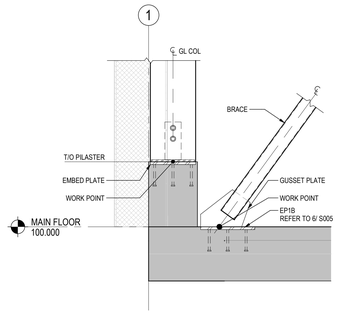

14 S201 **DETAIL**
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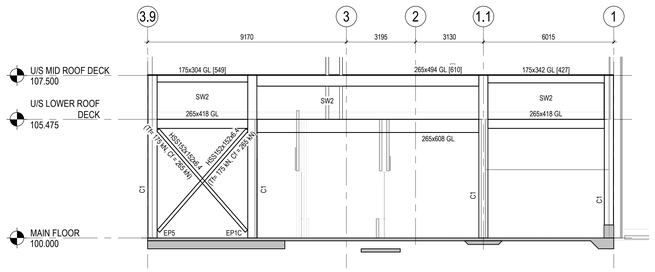

7 S201 **ELEVATION ALONG GRID L**
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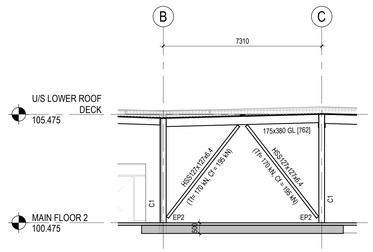

8 S201 **ELEVATION ALONG GRID 6**
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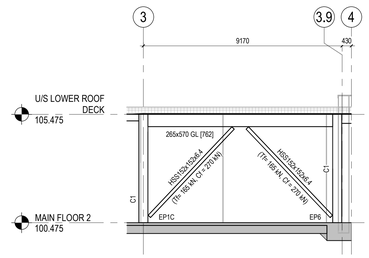

9 S201 **ELEVATION ALONG GRID G**
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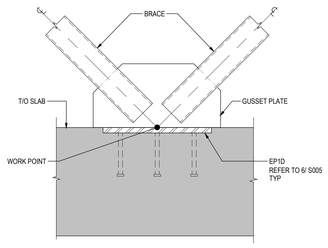
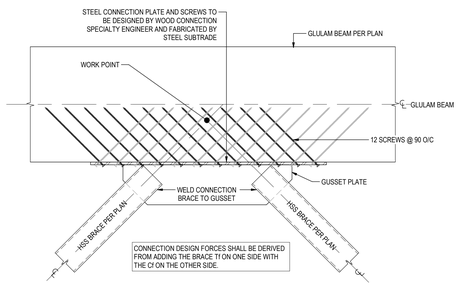
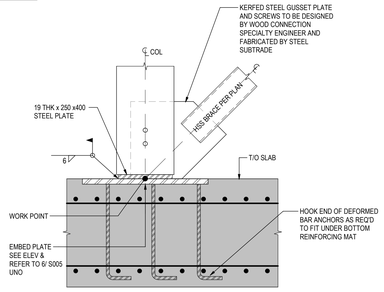


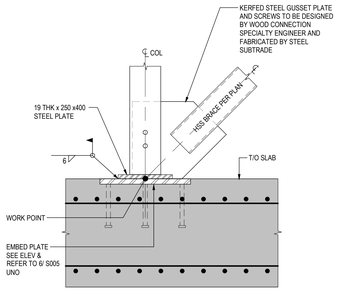
10 S201 **BRACE CONNECTION AT T/O SLAB**
NTS



11 S201 **TYPICAL CHEVRON BRACE TO GLULAM BEAM CONNECTION**
NTS

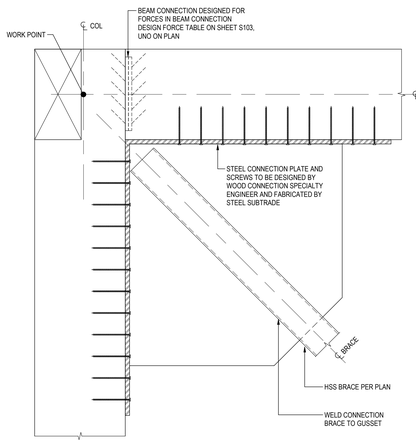


CONDITION 1 - BRACE ATTACHED TO NARROW FACE OF COL

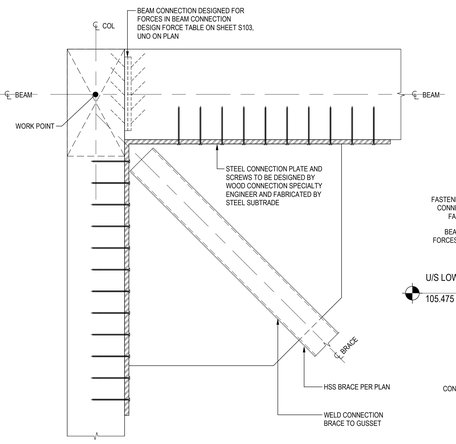


CONDITION 2 - BRACE ATTACHED TO WIDE FACE OF COL

12 S201 **TYPICAL BRACE TO WOOD COL BASE CONNECTIONS**
NTS



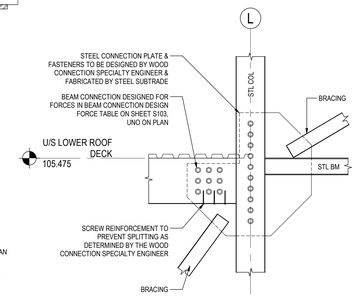
CONDITON 1 - BRACE ATTACHED TO NARROW FACE OF COL



CONDITON 2 - BRACE ATTACHED TO WIDE FACE OF COL

NOTES:
1. ALTERNATE- PROVIDE STEEL KNIFE PLATES- WOOD CONNECTION SPECIALTY ENG TO DETERMINE.
2. CONNECTION DESIGN FORCES SHALL BE DERIVED FROM ADDING THE BRACE Tf ON ONE SIDE WITH THE Cf ON THE OTHER SIDE.

13 S201 **TYPICAL BRACE TO WOOD COL TOP CONNECTIONS**
NTS



CONNECTION DESIGN FORCES SHALL BE DERIVED FROM MAXIMUM AXIAL FORCES ON BRACES. LOAD CASE 1: TENSION FORCES ON BRACES AND HORZ MEMBERS ACT SIMULTANEOUSLY. LOAD CASE 2: COMPRESSION FORCES ON BRACES AND HORZ MEMBER ACT SIMULTANEOUSLY. (COMBINING TENSION WITH COMPRESSION IN SAME LOAD COMBO, NOT REQUIRED)

16 S201 **CONNECTION DETAIL**
1 : 20

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Client/Project Logo

Yukon University

Keyplans

Notes

1. REFER TO 6/S005 FOR EMBED PLATE DETAILS, TYP UNO.

6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 70% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

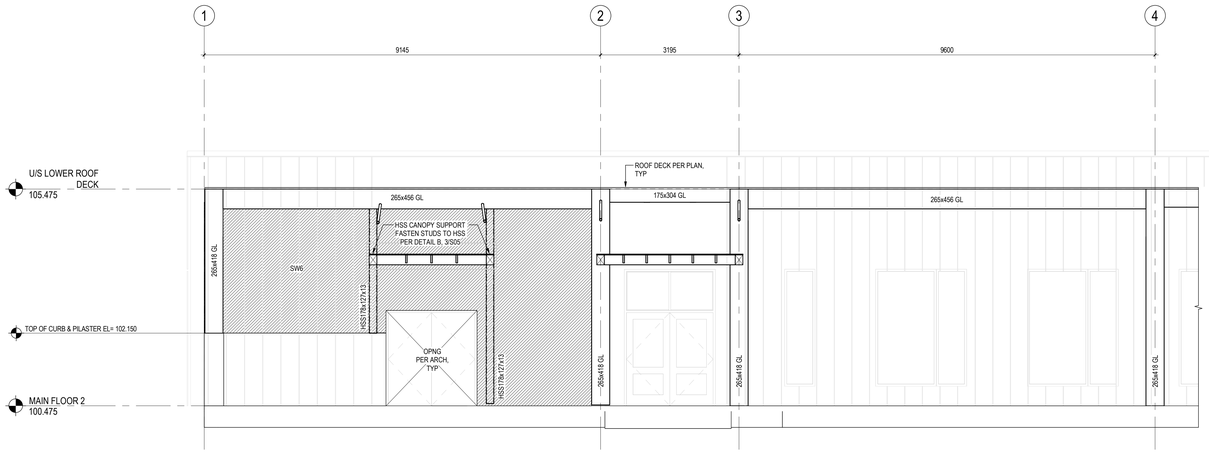
Permit/Seal

Client/Project
Yukon University
Polaris Project

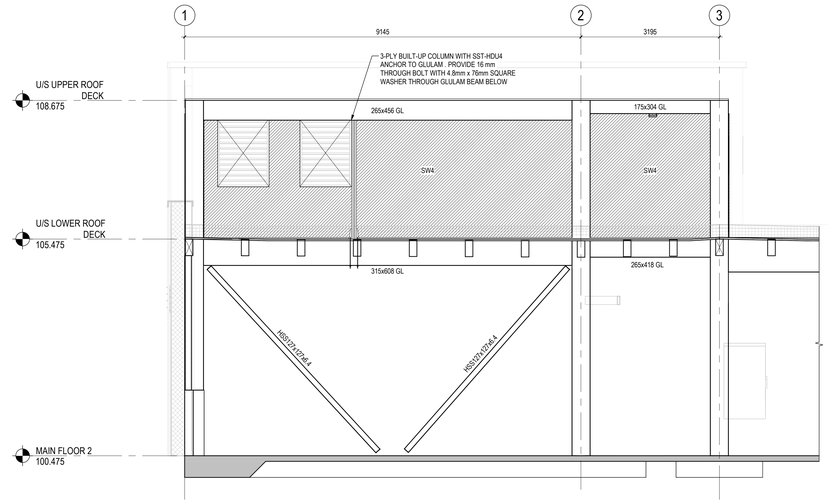
Title
FRAMING ELEVATIONS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **S201**

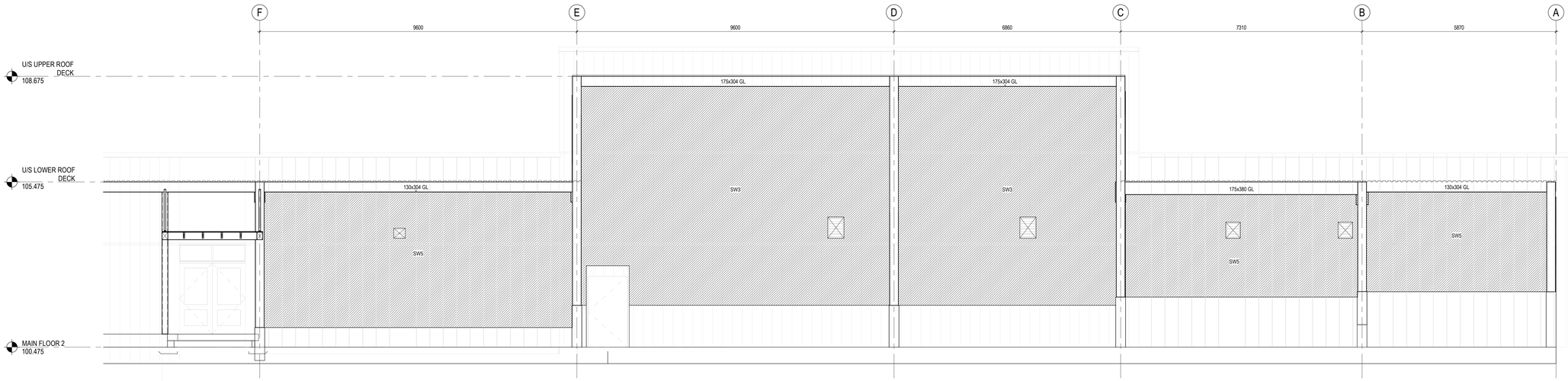
ORIGINAL SHEET - ISO A0



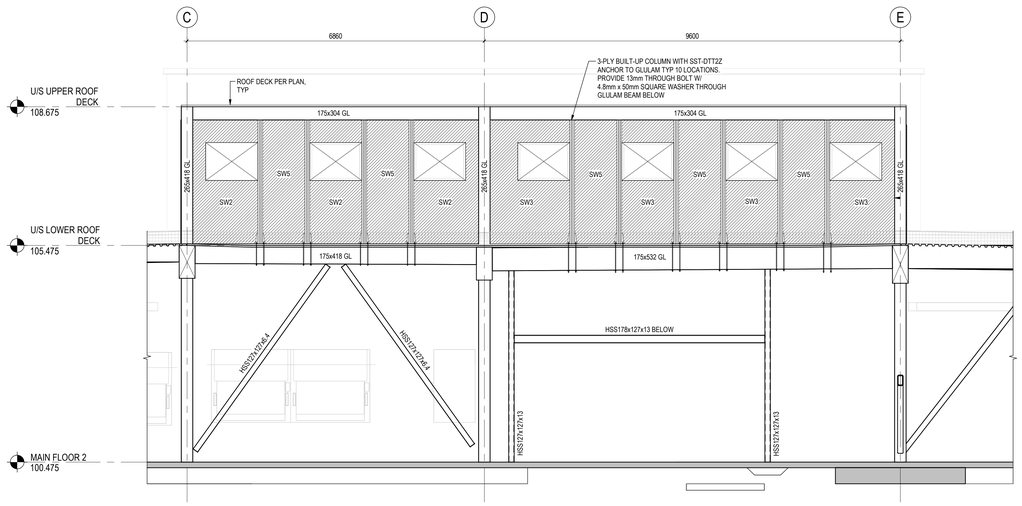
1 S202 **SHEAR WALL ELEVATION ALONG GRID A**
1 : 50



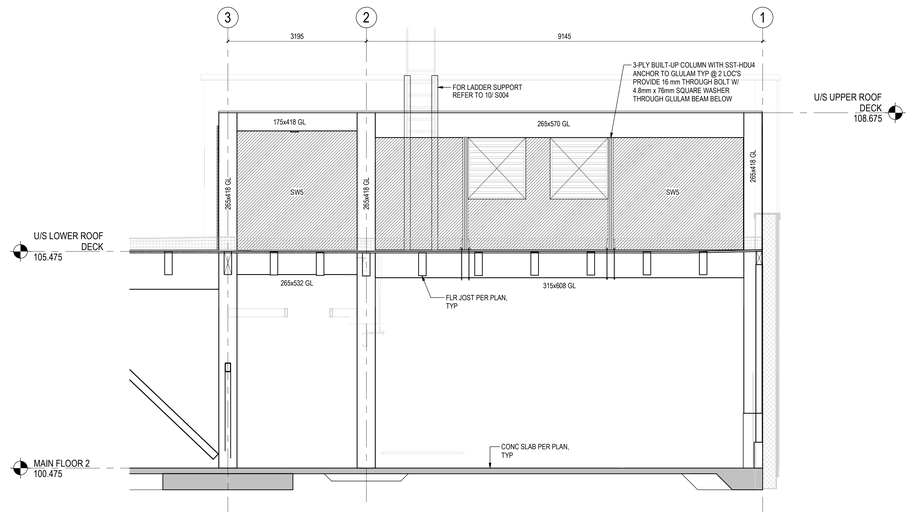
3 S202 **SHEAR WALL ELEVATION ALONG GRID C**
1 : 50



2 S202 **SHEAR WALL ELEVATION ALONG GRID 1**
1 : 50



4 S202 **SHEAR WALL ELEVATION ALONG GRID 3**
1 : 50



5 S202 **SHEAR WALL ELEVATION ALONG GRID E**
1 : 50

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Keyplans

Notes

5	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
4	ISSUED FOR TENDER	JW	GB	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
2	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.16
		By	Appd	YYYY.MM.DD

Issued & Revision

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
SHEAR WALL ELEVATIONS

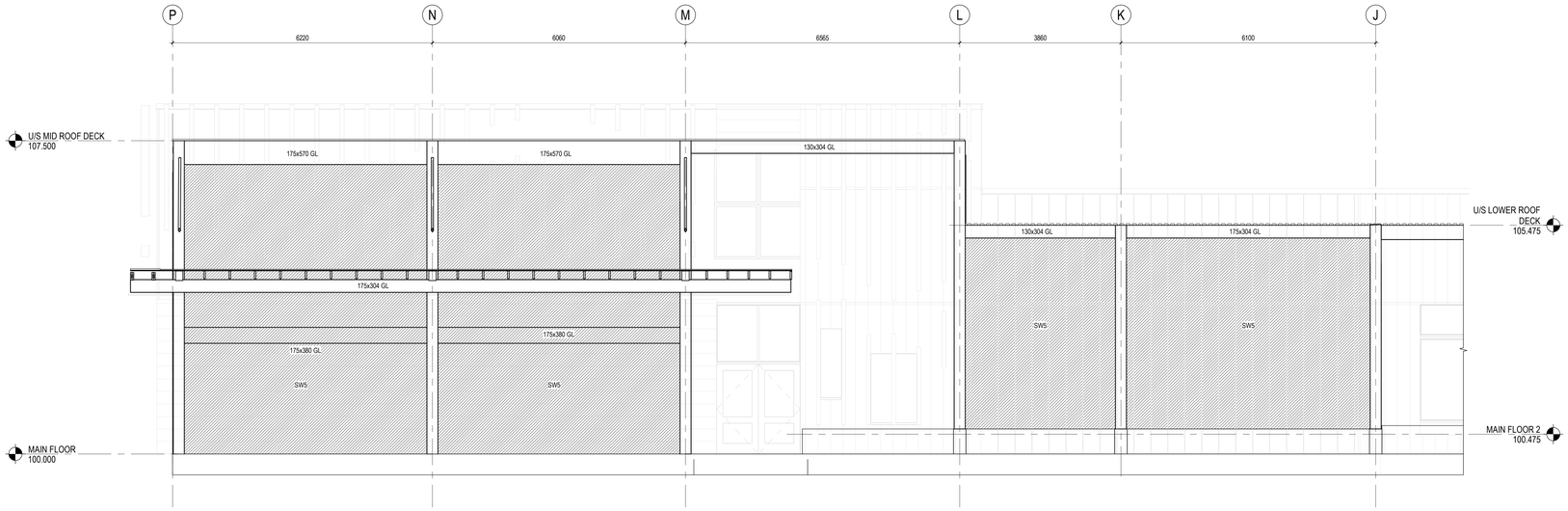
Project No. 144214760

Scale 1 : 50

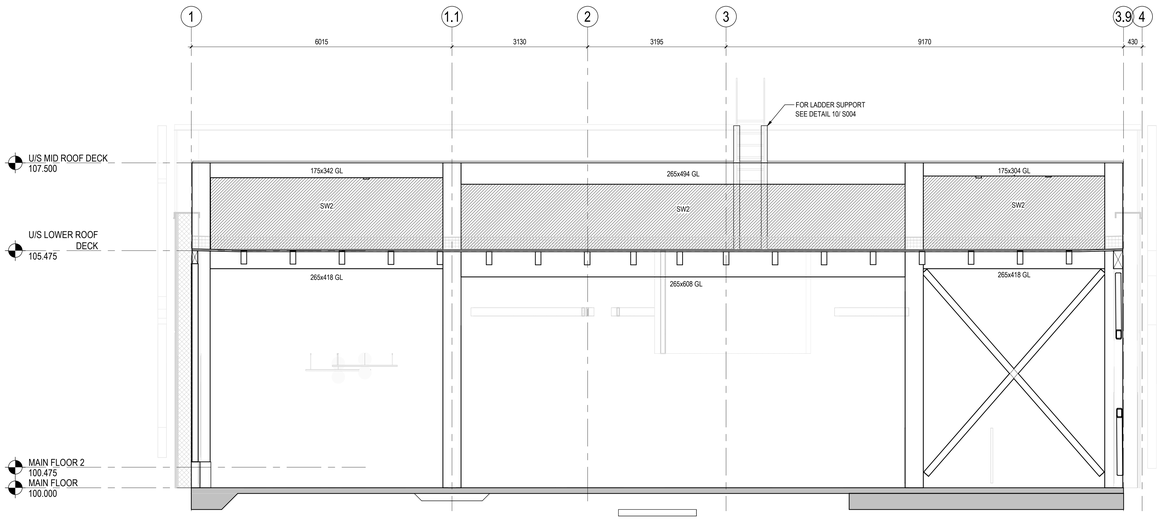
Revision 5

Drawing No. **S202**

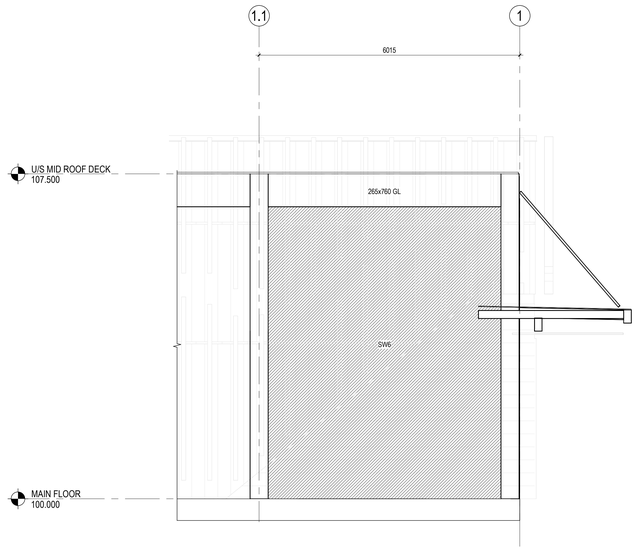
ORIGINAL SHEET - ISO A0



2 S203 **SHEAR WALL ELEVATION ALONG GRID 1**
1 : 50



4 S203 **SHEAR WALL ELEVATION ALONG GRID L**
1 : 50



5 S203 **SHEAR WALL ELEVATION ALONG GRID P**
1 : 50

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Keyplans

Notes

5	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
4	ISSUED FOR TENDER	JW	GB	2024.05.06
3	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
2	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
SHEAR WALL ELEVATIONS

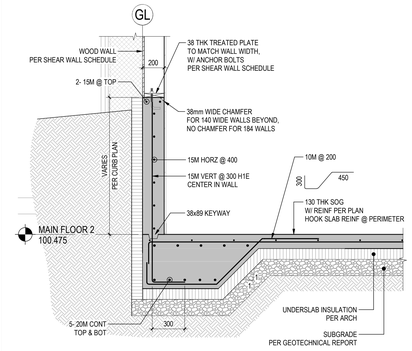
Project No.
144214760

Scale
1 : 50

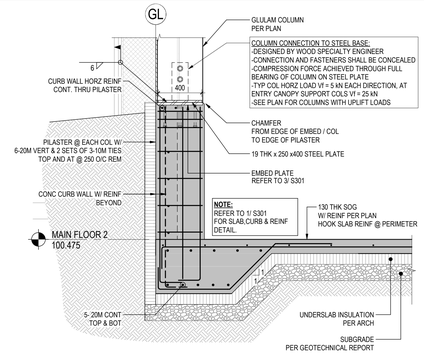
Revision
5

Drawing No.
S203

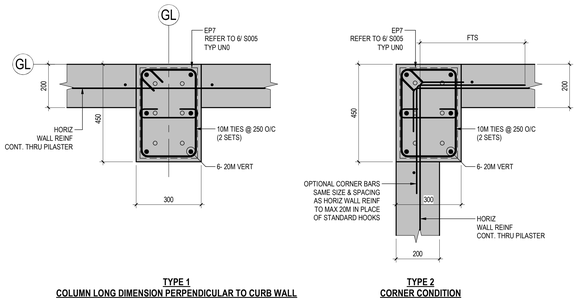
ORIGINAL SHEET - ISO A0



1 SECTION
S301 1 : 20



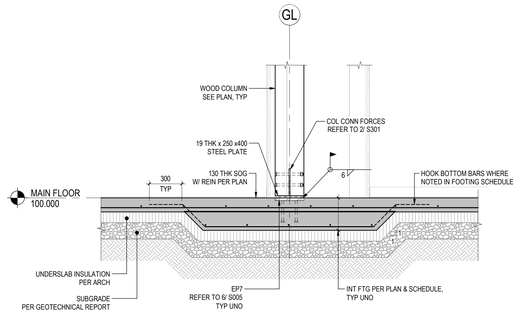
2 SECTION AT EXTERIOR COLUMN
S301 1 : 20



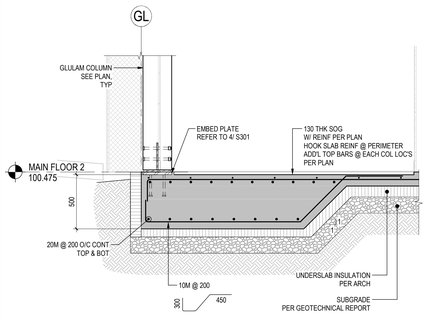
TYPE 1
COLUMN LONG DIMENSION PERPENDICULAR TO CURB WALL

TYPE 2
CORNER CONDITION

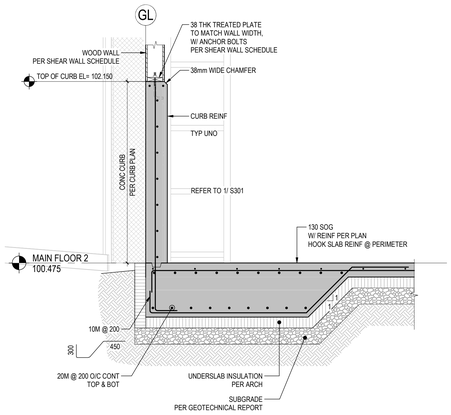
3 PILASTER PLAN DETAILS
S301 1 : 10



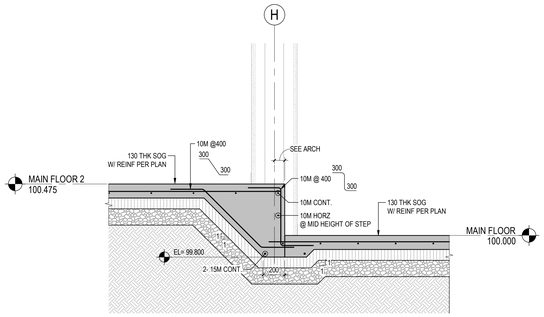
4 TYPICAL SECTION AT INTERIOR COLUMN
S301 1 : 20



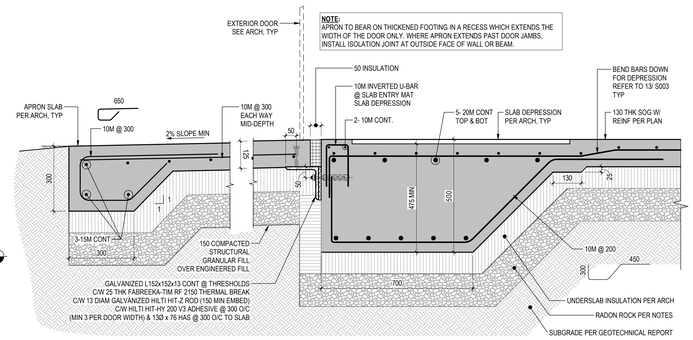
5 SECTION AT EXTERIOR COLUMN
S301 1 : 20



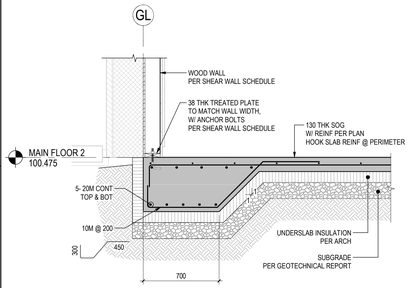
6 SECTION
S301 1 : 20



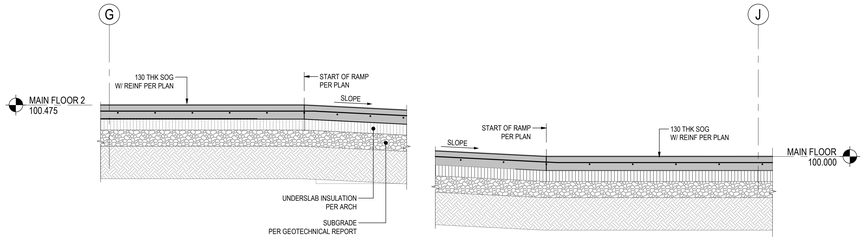
7 STEPPED SLAB SECTION
S301 1 : 20



8 TYPICAL SECTION AT EXTERIOR DOORS AND APRON SLABS
S301 1 : 10



9 TYPICAL SLAB EDGE SECTION
S301 1 : 20



10 RAMP SECTION
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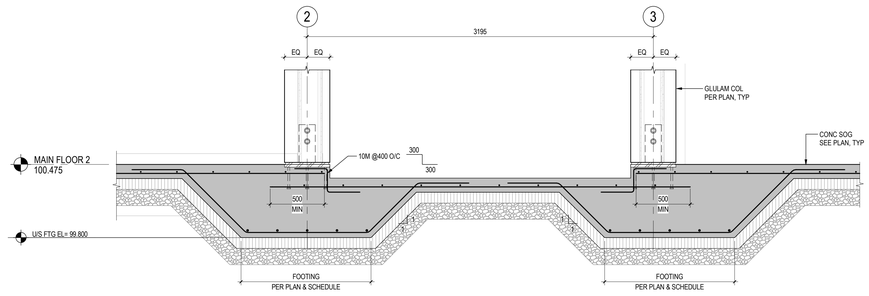

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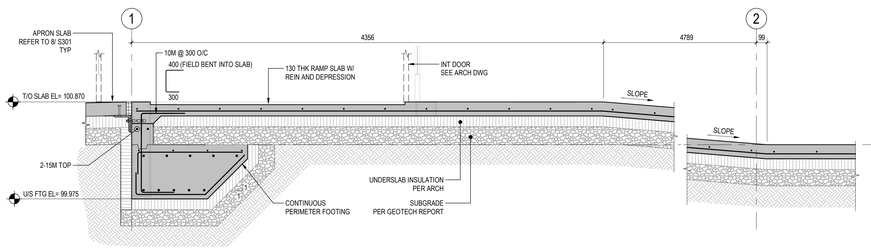

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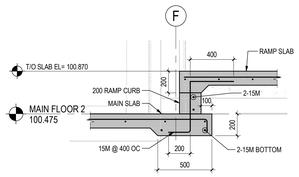
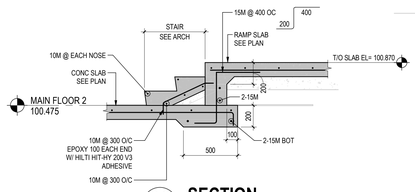
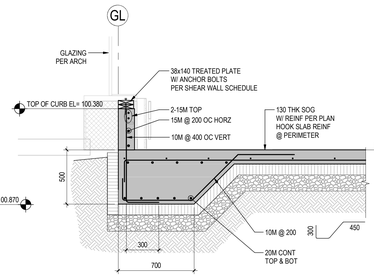


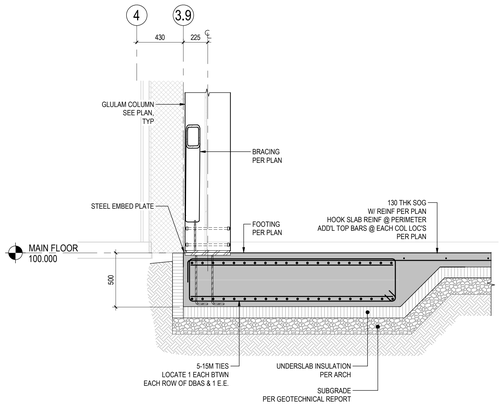
13 SECTION
S301 1 : 20



14 SECTION
S301 1 : 20



15 TYP SLAB SECTION AT CURB
S301 1 : 20



16 ADDITIONAL FOUNDATION REINFORCING AT EP4 & EP5
S301 1 : 20

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Client/Project Logo

Yukon University

Keyplans

Notes

4	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
5	ISSUED FOR TENDER	JW	GB	2024.05.06
4	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JW	GB	2024.02.09
2	ISSUED FOR 75% SUBMISSION	DA	GB	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14

Issued & Revision

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project
Yukon University
Polaris Project

Title
SECTIONS AND DETAILS

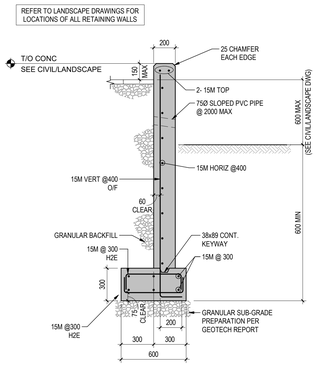
Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **S301**

ORIGINAL SHEET - ISO A0

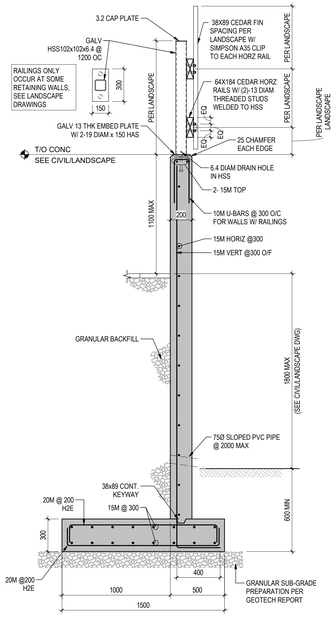


SECTION

CASE 1: RETAINING 600 mm OR LESS

1 / S302 RETAINING WALL SECTION

1 : 20

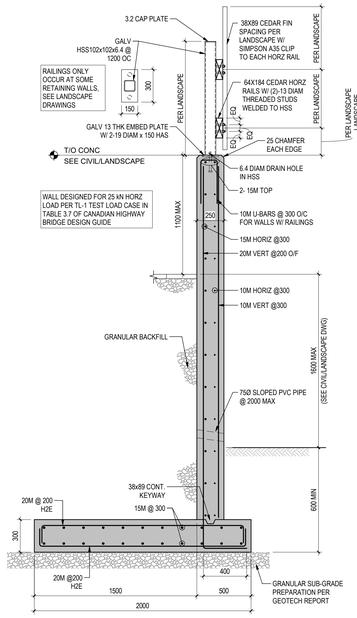


SECTION

CASE 2: RETAINING > 600 mm WALL NOT PARALLEL WITH ROADWAY

2 / S302 RETAINING WALL SECTION

1 : 20



SECTION

CASE 3: RETAINING > 600 mm WALL PARALLEL WITH ROADWAY (TRAFFIC BARRIER)

3 / S302 RETAINING WALL SECTION

1 : 20

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Keyplans

Notes

		By	Appd	
3	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
2	ISSUED FOR TENDER	JW	GB	2024.05.06
1	ISSUED FOR CLASS A PRICING SUBMISSION	JW	GB	2024.03.15

Issued & Revision

File Name: N/A	JW	GB	RS	2024.03.14
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project

Yukon University

Polaris Project

Title

SECTIONS AND DETAILS

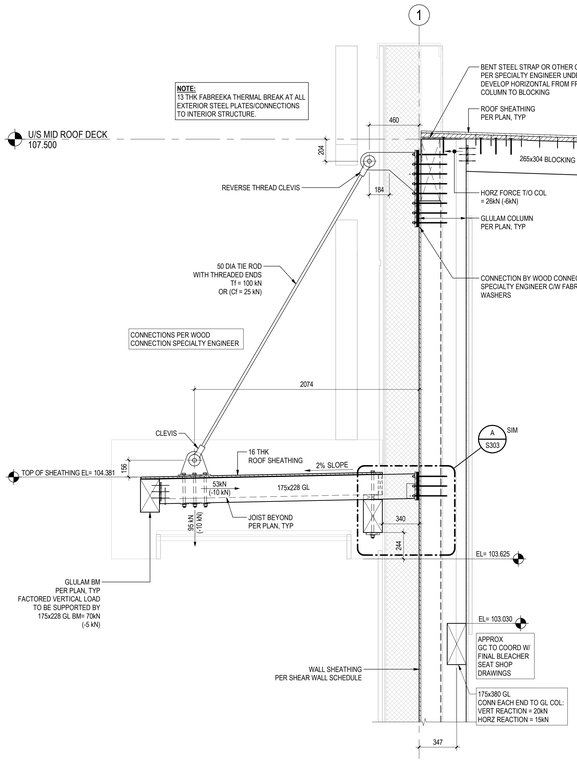
Project No. 144214760

Scale 1 : 20

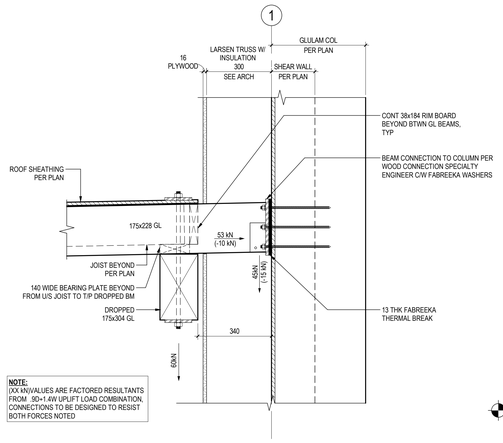
Revision 3

Drawing No. S302

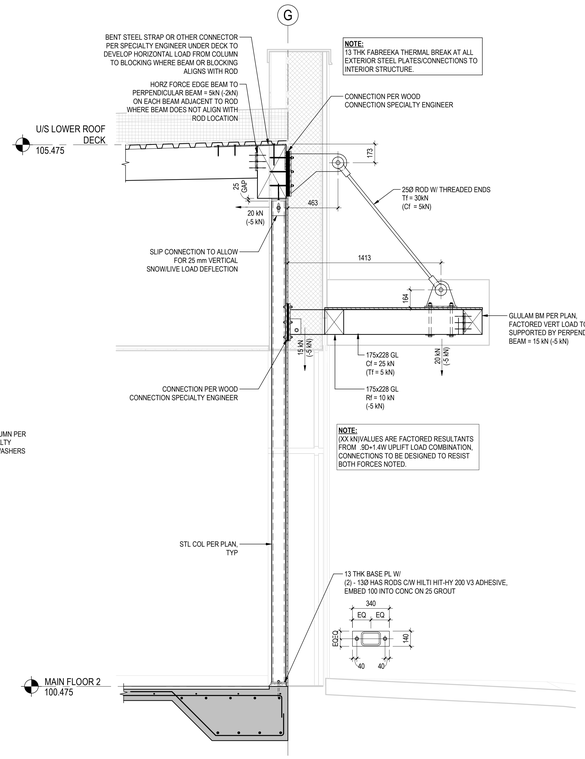
ORIGINAL SHEET - ISO A0



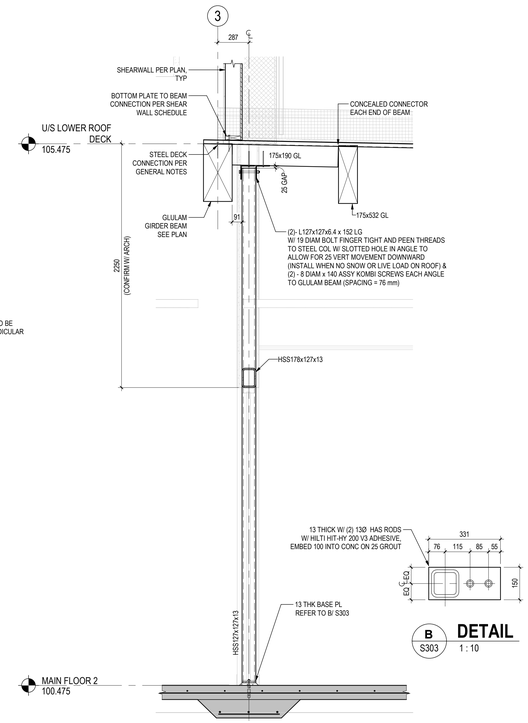
1 S303 **SECTION** 1 : 20



A S303 **DETAIL** 1 : 10

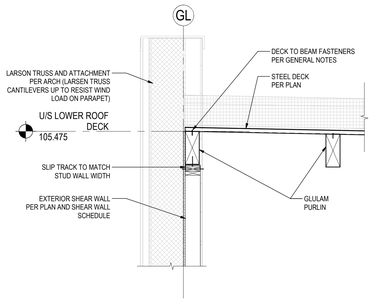


2 S303 **TYPICAL DETAIL AT SMALL CANOPIES** 1 : 20

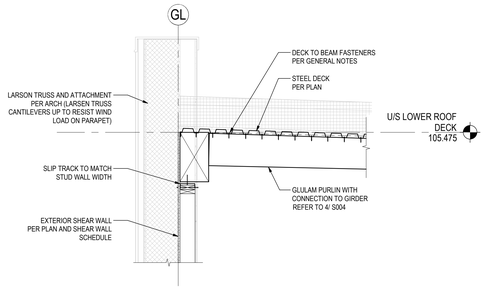


B S303 **DETAIL** 1 : 10

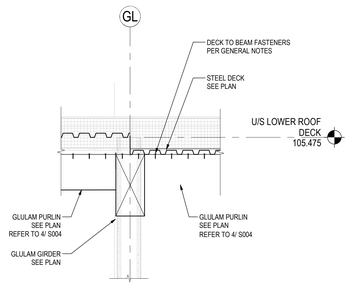
3 S303 **SECTION** 1 : 20



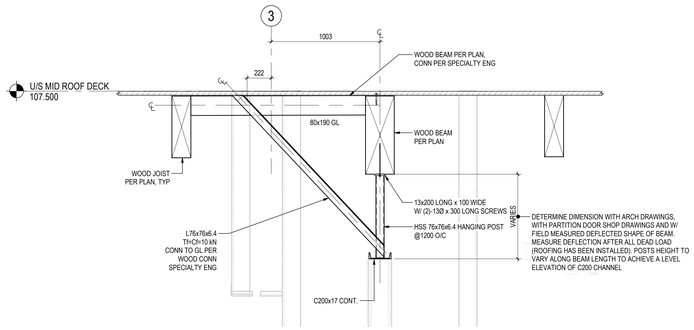
4 S303 **TYPICAL STEEL DECK TO EDGE PURLIN DETAIL** 1 : 20



5 S303 **TYPICAL STEEL DECK TO GIRDER EDGE BEAM DETAIL** 1 : 20



6 S303 **SECTION** 1 : 20



7 S303 **SECTION** 1 : 20

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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	JW	GB	2024.09.30
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1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14
Issued & Revision		By	App'd	YYYY.MM.DD

File Name: N/A	DA.	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
SECTIONS AND DETAILS

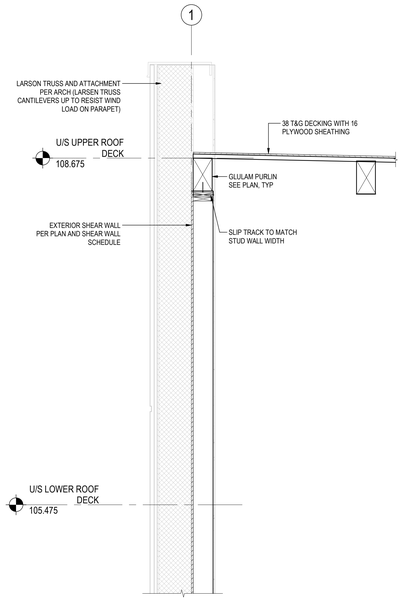
Project No. 144214760

Scale As indicated

Revision 6

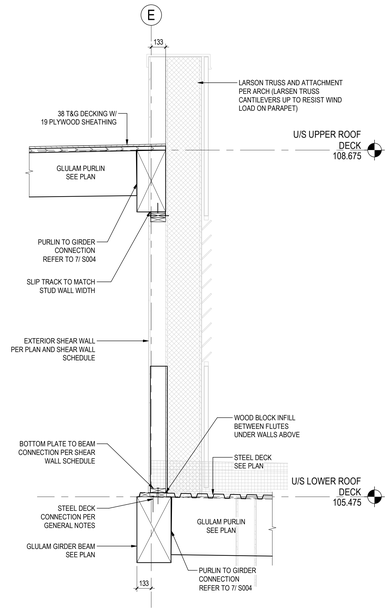
Drawing No. **S303**

ORIGINAL SHEET - ISO A0



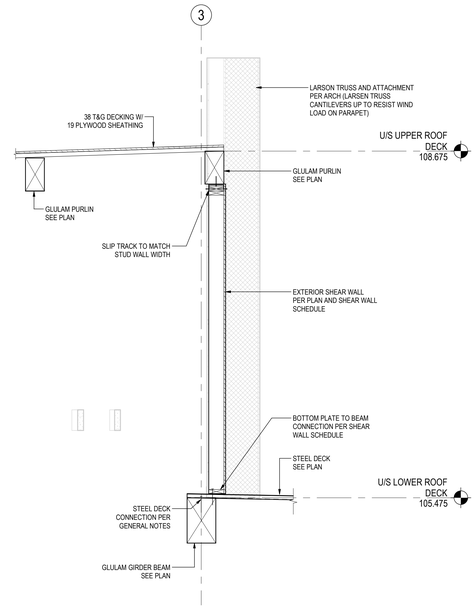
1 / S304 TYPICAL WOOD DECK TO EDGE PURLIN DETAIL

1 : 20



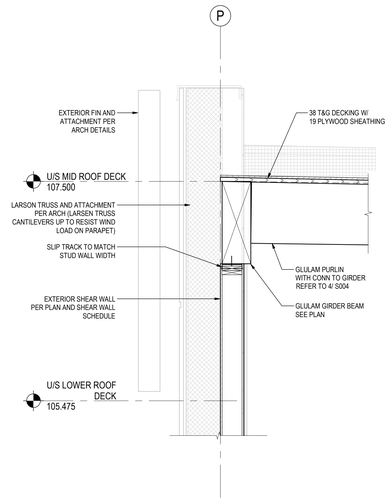
2 / S304 TYPICAL GIRDER BEAM HIGH TO LOW ROOF DETAIL

1 : 20



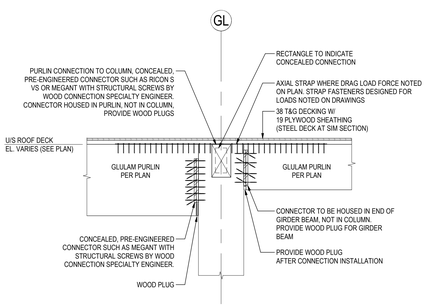
3 / S304 TYPICAL EDGE PURLIN HIGH TO LOW ROOF DETAIL

1 : 20



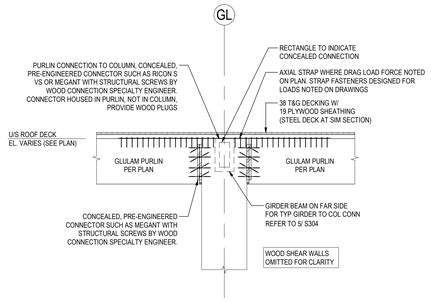
4 / S304 SECTION

1 : 20



5 / S304 TYPICAL GIRDER TO COLUMN CONNECTION

1 : 20



6 / S304 TYPICAL PURLIN TO COLUMN SECTION

1 : 20

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Keyplans

Notes

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1	ISSUED FOR DESIGN DEVELOPMENT	DA	GB	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DA	GB	RS	2022.12.15
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
SECTIONS AND DETAILS

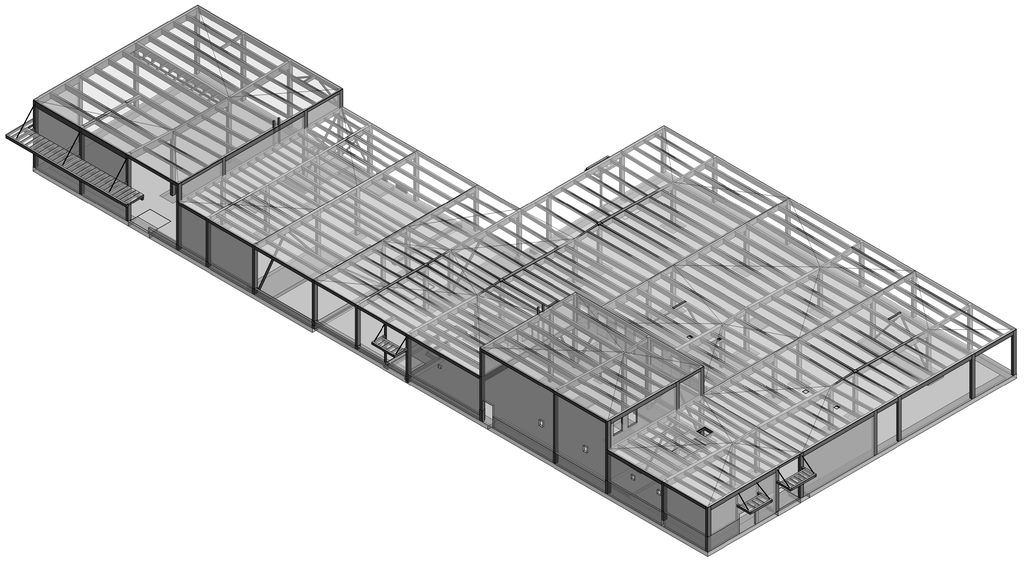
Project No. 144214760

Scale 1 : 20

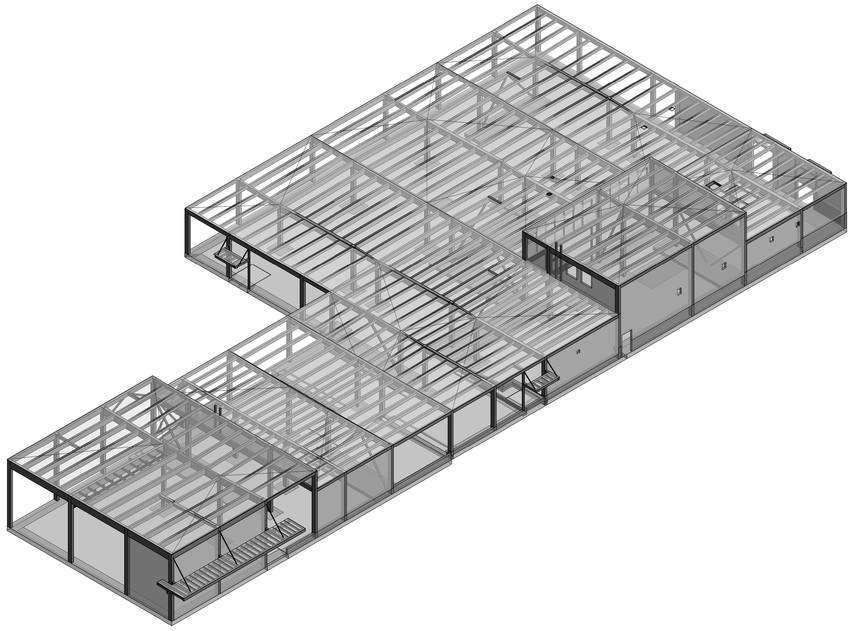
Revision 6

Drawing No. **S304**

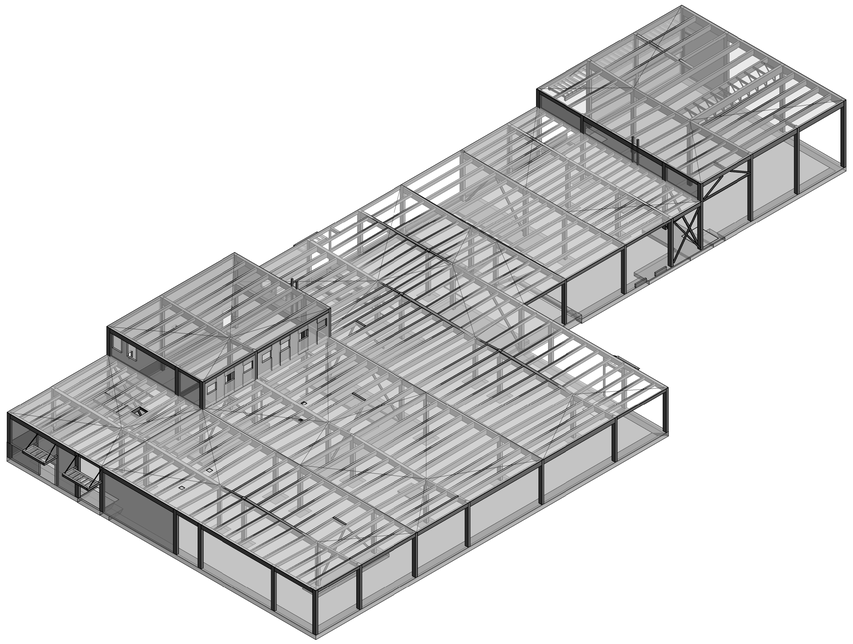
ORIGINAL SHEET - ISO A0



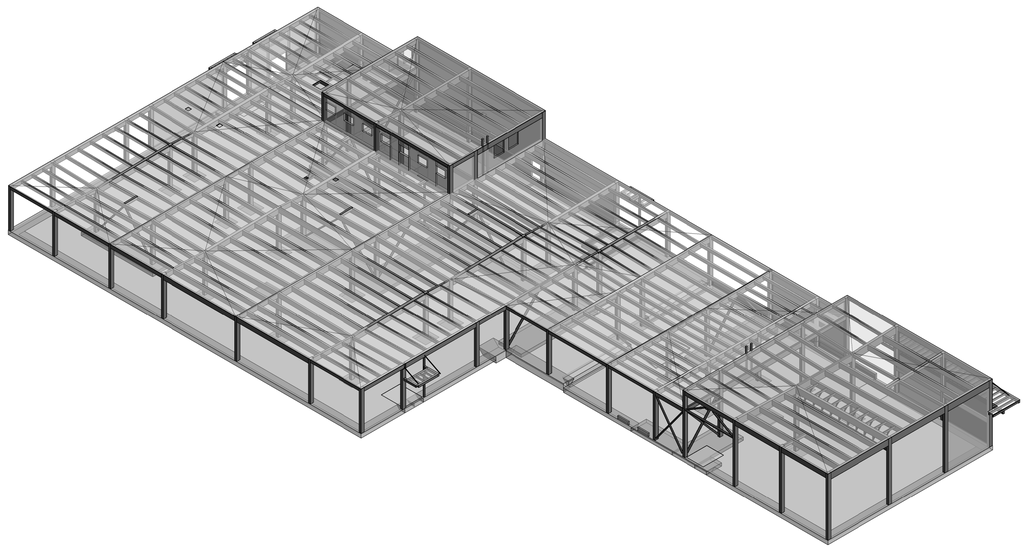
3D-OVERALL-NW



3D-OVERALL-NE



3D-OVERALL-SW



3D-OVERALL-SE

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
ISOMETRICS

Project No.
144214760

Scale

Revision
6

Drawing No.
S400

ORIGINAL SHEET - ISO A0

FIRE PROTECTION

REAL OBJECT	SYMBOL	
	F(AF)	FIRE - ANTIFREEZE
	F(D)	FIRE - DRAIN
	F(DRY)	FIRE - DRY
	F(PA)	FIRE - PRE-ACTION
	F	FIRE - WET
		SPRINKLER GUARD FOR UPTICHT, PENDENT OR SIDEWALL SPRINKLER
	AC	ABBREVIATION FOR ANTICORROSION
	HT	ABBREVIATION FOR HIGH TEMPERATURE
		FIRE EXTINGUISHER
		SIAMESE FIRE DEPARTMENT CONNECTION
		UPRIGHT SPRINKLER
		PENDANT SPRINKLER
		SIDEWALL SPRINKLER
	DP	DRY PENDANT SPRINKLER
	DP	DRY SIDEWALL SPRINKLER
	FCP	FIRE ALARM CONTROL PANEL
	FVC	FIRE VALVE CABINET
	SPCAB	SPRINKLER CABINET
		FIRE HOSE VALVE ASSEMBLY
		SUPERVISED BUTTERFLY VALVE
		SUPERVISED GATE VALVE
		SUPERVISED OUSIDE SCREW AND YORK (OS&Y) VALVE
		SUPERVISED OS&Y VALVE
		SUPERVISED WATERFLOW SWITCH
		SUPERVISED BACKFLOW PREVENTER
		WET ALARM CHECK VALVE WITH TRIMING
		AIR MAINTENANCE DEVICE
		FLOOR AIR COMPRESSOR TANK
		MOUNTED AIR COMPRESSOR ASSEMBLY
		DRY ALARM CHECK VALVE WITH TRIMING
		PREACTION ALARM CHECK VALVE WITH TRIMING
		TEST AND DRAIN VALVE
		PRESSURE REDUCING VALVE
		FLOOR CONTROL VALVE ASSEMBLY
		SIAMESE PROJECTING CONNECTION «Y»
		END SUCTION FIRE PUMP
		VERTICAL INLINE FIRE PUMP
		JOCKEY PUMP
		WALL MOUNTED PORTABLE FIRE EXTINGUISHER
		SEMI RECESSED CABINET FOR PORTABLE EXTINGUISHER

PLUMBING

#	PIPE SIZE
XX	PIPING ROUTED BELOW SLAB OR GRADE
AV	ACID VENT
AW	ACID WASTE ABOVE GRADE OR FLOOR
CD(P)	CONDENSATE DISCHARGE PUMPED
CD	CONDENSATE DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
D	DRAIN
LV	LABORATORY VENT
LW	LABORATORY WASTE
RO	REVERSE OSMOSIS
ROR	REVERSE OSMOSIS RECIRCULATING
SAN	SANITARY DRAIN
SAN(P)	SANITARY PUMPED
ST	STORM DRAIN
V	VENT
	PIPE INSULATION
	FIXTURE TRAP
RD	ROOF DRAIN
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
	TRAP PRIMER
HB	HOSE BIBB
	PLUMBING FIXTURES
TYPE / QUANTITY	PLUMBING FIXTURE TAG (REFER TO SCHEDULE)

LAB GAS

LCA	LABORATORY COMPRESSED AIR
LVAC	LABORATORY VACUUM
N2	NITROGEN
A	LAB AIR SINGLE BENCH OUTLET
V	LAB VACUUM SINGLE BENCH OUTLET
N	LAB NITROGEN SINGLE BENCH OUTLET
A	LAB DOUBLE 45 DEGREE BENCH OUTLET
A A	LAB DOUBLE BENCH OUTLET
A	LAB QUIAD 45 DEGREE BENCH OUTLET
	BALL VALVE
	CHECK VALVE

PIPING SYSTEMS (HVAC)

#	PIPE SIZE
CHWR	CHILLED WATER RETURN
CGLR	CHILLED WATER RETURN - GLYCOL
CHWS	CHILLED WATER SUPPLY
CGLS	CHILLED WATER SUPPLY - GLYCOL
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HRR	HEAT RECOVERY LOOP RETURN
HRS	HEAT RECOVERY LOOP SUPPLY
HWR	HEATING WATER RETURN
GLR	HEATING WATER RETURN - GLYCOL
HWS	HEATING WATER SUPPLY
GLS	HEATING WATER SUPPLY - GLYCOL
REF(HG)	REFRIGERANT HOT GAS
REF(L)	REFRIGERANT LIQUID
REF(S)	REFRIGERANT SUCTION
REF(V)	REFRIGERANT VENT
RV	RELIEF VENT
	PIPE INSULATION

PIPING COMPONENTS

REAL OBJECT	SYMBOL	
		ISOLATION VALVE (GENERIC)
		GATE VALVE
		GLOBE VALVE
		BUTTERFLY VALVE NPS 6 AND LESS
		BALL VALVE
		CHECK VALVE (GENERIC)
		BALANCING VALVE
		PRESSURE REDUCING VALVE
2-WAY		2-WAY CONTROL VALVE (GENERIC)
2-WAY		TWO-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
3-WAY		3-WAY CONTROL VALVE (GENERIC)
3-WAY		THREE-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
		SOLENOID 2-WAY CONTROL VALVE
		SOLENOID 3-WAY CONTROL VALVE
		SAFETY OR RELIEF VALVE
		ANGLE VALVE
	BFP	BACKFLOW PREVENTER (GENERIC)
		MULTI-PURPOSE VALVE (SHUTOFF, BALANCING AND CHECK)
		SUCTION DIFFUSER
		PUMP (GENERIC)
		Y STRAINER (GENERIC)
		AUTOMATIC AIR VENT
		MANUAL AIR VENT
		VACUUM BREAKER
		SHOCK ABSORBER
		TEMPERATURE GAUGE
		PRESSURE GAUGE
		TEMPERATURE AND PRESSURE TAP
		SIGHT FLOW GLASS
		FLEXIBLE CONNECTOR
		EXPANSION JOINT
		GUIDE
		ANCHOR
		FLOW ARROW
	1%	PIPING SLOPE
		PIPE CAP
		PIPE BREAK
		PIPE CROSS
		PIPING ELBOW UP
		PIPING ELBOW DOWN
		PIPING TEE UP
		PIPING TEE DOWN
		UNION CONNECTION
		FLANGED CONNECTION
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
CO	CO	STANDARD CLEAN-OUT IN LINE END OF RUN
	CO	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
	CO	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE

VENTILATION (HVAC)

* NOTE- ALL DUCT SIZES ARE INTERIOR, FREE DIMENSIONS (ALWAYS WIDTH X HEIGHT IN FLOOR PLAN AND SECTION)

	AIR FLOW ARROW
18"x12" / 18"x12"	RECTANGULAR DUCT AND SIZE*
18"ø / 18"ø	ROUND DUCT AND SIZE*
18"x12"ø / 18"x12"ø	FLAT OVAL DUCT AND SIZE*
18"x12"	EXTERIOR DUCT TREATMENT*
18"x12" / 18"x12"	RECTANGULAR DUCT WITH ACOUSTIC LINING*
30"x12"	DUCT SECTION. SUPPLY AIR. SIZE* IS HORIZONTAL DIM. x VERTICAL DIM. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, RETURN AIR. APPLIES TO RECT., ROUND AND OVAL
	DUCT SECTION, EXHAUST AIR. APPLIES TO RECT., ROUND AND OVAL
	FLEXIBLE DUCT
	ELBOW TURN, SUPPLY DOWN. APPLIES TO RECT., ROUND AND OVAL
	ELBOW TURN, OUTSIDE AIR DOWN. APPLIES TO RECT., ROUND AND OVAL
	ELBOW TURN, RETURN DOWN. APPLIES TO RECT., ROUND AND OVAL
	ELBOW TURN, EXHAUST DOWN. APPLIES TO RECT., ROUND AND OVAL
UP	CHANGE IN DUCT ELEVATION RISING IN DIRECTION INDICATED
DN	CHANGE IN DUCT ELEVATION DROPPING IN DIRECTION INDICATED
	END CAP
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	MITERED ELBOW, RECTANGULAR, WITH TURNING VANES
	RECTANGULAR TO ROUND TRANSITION
AD / AD AD	DUCT ACCESS DOOR (TOP, SIDE, BOTTOM)
	FLEXIBLE CONNECTION
600	BACKDRAFT DAMPER
	MANUAL DAMPER
M	MOTORIZED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	SMOKE AND FIRE DAMPER
	DUCT SILENCER
X	CONTROL DEVICE (REFER TO CONTROLS LEGEND)
	AIR FLOW MEASURING STATION (REFER TO CONTROLS LEGEND)
QUANTITY / TYPE / SIZE (IN.) / VOLUME (CFM)	AIR OUTLET OR INLET TAG (REFER TO SCHEDULE)
	RECTANGULAR DIFFUSER, SUPPLY. OPTIONAL ARROWS SHOW THE FLOW DIRECTION
	RECTANGULAR REGISTER OR GRILLE, RETURN
	RECTANGULAR REGISTER OR GRILLE, EXHAUST
	ROUND DIFFUSER, SUPPLY
	LINEAR DIFFUSER
	SIDEWALL REGISTER OR GRILLE, SUPPLY
	SIDEWALL GRILLE, RETURN OR EXHAUST
UC	UNDERCUT DOOR
	DOOR GRILLE OR LOUVER
	TRANSFER GRILLE OR LOUVER
	COIL (REFER TO CONTROLS LEGEND)
ID-#	EQUIPMENT TAG
QUANTITY / TYPE / LENGTH (FT) / CAPACITY (MBH)	RADIATION HEATING TAG (REFER TO SCHEDULE)

CONTROLS

CO2	CARBON DIOXIDE SENSOR
CT	CURRENT SENSOR
CT	CURRENT TRANSMITTER WITH LEAD
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FS	FLOW SWITCH
FT	FLOW TRANSMITTER
FZ	FREEZE STAT
HOA	HAND SWITCH
H	HUMIDITY SENSOR
LS	LIMIT SWITCH
O	OCCUPANCY SENSOR
PI	POSITION INDICATOR
PS	PRESSURE SENSOR
RH	RELATIVE HUMIDITY SENSOR
R	RELAY
H	ROOM HUMIDITY SENSOR
SP	STATIC PRESSURE SENSOR
TS	TEMPERATURE SENSOR
T	THERMOSTAT
AFS	AIR FLOW SWITCH
SCR	SILICON CONTROLLED RECTIFIER
TCP	TEMPERATURE CONTROL PANEL
TEC	TERMINAL EQUIPMENT CONTROLLER
	SENSOR WELL
	ALARM HORN
	ALARM BEACON
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
STR	STARTER
VFD	VARIABLE FREQUENCY DRIVE
	NON MOTORIZED VALVE
M	TWO WAY MOTORIZED VALVE
M	THREE WAY MOTORIZED VALVE
SOL	TWO WAY SOLENOID VALVE
NC / NO	THREE WAY SOLENOID VALVE
	PUMP
	MOTOR
S	DUCT SMOKE DETECTOR
H	DUCT SMOKE DETECTOR
	AIR FLOW MEASURING STATION
	AIR FLOW PROBE
	BACKDRAFT DAMPER
	MOTORIZED DAMPER - PARALLEL BLADE
	MOTORIZED DAMPER - OPPOSED BLADE

NOTE: NOT ALL SYMBOLS, OBJECTS AND LINETYPES MAY BE USED ON DRAWINGS

EQUIPMENT ID

TAG	DESCRIPTION
AC - #	AIR COMPRESSOR
ACU - #	AIR CONDITIONING UNIT
ADS - #	AIR AND DIRT SEPARATOR
AF - #	AIR FILTER
AHU - #	AIR HANDLING UNIT
AS - #	AIR SEPARATOR
B - #	BOILER
CC - #	COOLING COIL, HYDRONIC
CH - #	CHILLER
CNV - #	CONVECTOR
CUH - #	CABINET UNIT HEATER
CV - #	CONTROL VALVE
DF - #	DRINKING FOUNTAIN
DS - #	DUCT SILENCER
DHWH - #	DOMESTIC WATER HEATER
E - #	EXHAUST GRILLE / REGISTER / DIFFUSER
EL - #	EXPANSION LOOP
ERC - #	ENERGY RECOVERY COIL
ERV - #	ENERGY RECOVERY VENTILATOR / UNIT
ES - #	EMERGENCY SHOWER W/ EYE WASH STATION
EW - #	EMERGENCY EYE WASH STATION
F - #	FAN
F -C - #	FAN, COOLING
F - E - #	FAN, EXHAUST
F - FH - #	FAN, FUME HOOD OR LABORATORY EXHAUST
F - R - #	FAN RETURN
F - S - #	FAN SUPPLY
F - T - #	FAN TRANSFER
FCU - #	FAN COIL UNIT
FD - #	FLOOR DRAIN
FGE - #	FLUE GAS ECONOMIZER
FFU - #	FAN FILTER UNIT
FPTU - #	FAN POWERED TERMINAL UNIT
FTR - #	FINNED TUBE RADIATOR
HB - #	HOSE BIBB, INTERIOR TYPE
HS - #	HAND SINK
HC - #	HEATING COIL
HP - #	HEAT PUMP
HP - R - #	HEAT PUMP, WASTE HEAT RECOVERY
HEX - #	HEAT EXCHANGER
LV - #	LAVATORY
LS - #	LAB SINK
MADS - #	MAGNETIC AIR DIRT SEPARATOR
MHADS - #	MAGNETIC HYDRAULIC AIR DIRT SEPARATOR
MS - #	MOP SINK
MUA - #	MAKEUP AIR UNIT
MV - #	MIXING VALVE
NFHB	NON-FREEZE HOSE BIBB
P - #	PUMP
P - C - #	PUMP, COOLING SYSTEM
P - F - #	PUMP, FIRE PROTECTION SYSTEM
P - H - #	PUMP, HEATING SYSTEM
P - W - #	PUMP, DOMESTIC WATER SYSTEM
PHC - #	PRE-HEAT COIL, HYDRONIC
PRV - #	PRESSURE REDUCING VALVE
R - #	RETURN AIR GRILLE / REGISTER / DIFFUSER
RD - #	ROOF DRAIN
RHC - #	RE-HEAT COIL, HYDRONIC
RO - #	REVERSE OSMOSIS UNIT
RP - #	RADIANT PANEL
RPC - #	RADIANT PANEL, CEILING
RPW - #	RADIANT PANEL, WALL
S - #	SUPPLY GRILLE / REGISTER / DIFFUSER
SH - #	SHOWER
SK - #	SINK
SSF - #	SIDE STREAM FILTER
T - C - #	TANK, COOLING SYSTEM
T - H - #	TANK, HEATING SYSTEM
T - W - #	TANK, DOMESTIC WATER SYSTEM
T - #	TRANSFER AIR GRILLE
UH - #	UNIT HEATER
UR - #	URINAL
VA - #	VALVE
VAV-E-#	VAV BOX, EXHAUST
VP - #	VACUUM PUMP
WC - #	WATER CLOSET

ABBREVIATIONS

ABBR.	DESCRIPTION
AAV	AUTOMATIC AIR VALVE
A/C	AIR CONDITIONING UNIT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFF-L1	ABOVE FINISHED FLOOR LEVEL 1
AFF-L2	ABOVE FINISHED FLOOR LEVEL 2
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AVG	AVERGAGE
BAS	BUILDING AUTOMATION SYSTEM
BF	BARRIER FREE
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
°C	CELSIUS
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
C/W	COMPLETE WITH
dB	DECIBELS()
DB	DRY BULB TEMERPRATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA. / Ø	DIAMETER
DIFF	DIFFERENTIAL
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EA	EXHAUST AIR
EA (G)	EXHAUST AIR, GENERAL
EA (LAB)	EXHAUST AIR, LABORATORY
EA (W)	EXHAUST AIR, WASHROOM
EAV	EXHAUST AIR VALVE
ED	EXISTING TO BE DEMOLISHED (DEMOLITION PLANS)
EER	ENERGY EFFICIENCY RATIO
ER	EXISTING RELOCATED (NEW CONSTRUCTION PLANS)
ERL	EXISTING TO BE RELOCATED (DEMOLITION PLANS)
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST / EX	EXISTING (DEMOLITION PLANS)
°F	FAHRENHEIT
FG	FLUE GAS (CHIMNEY & BREECHING)
FLA	FULL LOAD AMPERAGE
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT/FEET
GA	GAUGE
GAL	GALLON (US)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING / VENTILATING / AIR CONDITIONING
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
M	METER
MADS	MAGNETIC AIR DIRT SEPARATOR
MHADS	MAGNETIC HYDRAULIC AIR DIRT SEPARATOR
MAX	MAXIMUM
MBH	THOUSAND OF BTUH
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
N.C.	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED / OWNER INSTALLED
Pa	PASCALS
PG	PROPYLENE GLYCOL
POE	POINT OF ENTRANCE
POS	POINT OF SERVICE
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH, ABSOLUTE
PSIG	POUNDS PER SQUARE INCH, GAGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RA (E)	RETURN AIR TO ERV-1/2
RDN	RADON
RELA	RELIEF AIR
REQD	REQUIRED
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SA (E)	SUPPLY AIR FROM ERV-1/2
SP	STATIC PRESSURE
SRV	SAFETY RELIEF VALVE
TA	TRANSFER AIR
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
U/C	UNDER CUT (DOOR)
U/S	UNDERSIDE
U/G	UNDERGROUND
U.N.O	UNLESSS NOTED OTHERWISE
UP	UP
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
V/F	VERIFY IN FIELD
VTR	VENT-THRU-ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
ZN-#	ZONE

MECHANICAL DRAWING LIST

NO.	DRAWING NAME
M000	LEGENDS & GENERAL NOTES
M001	SITE PLAN
M100	PLUMBING - BELOW SLAB - WEST (SOUTH)
M101	PLUMBING - BELOW SLAB - EAST & WEST (NORTH)
M102	PLUMBING - ABOVE SLAB - WEST (SOUTH)
M103	PLUMBING - ABOVE SLAB - EAST & WEST (NORTH)
M200	FIRE PROTECTION - WEST (SOUTH)
M201	FIRE PROTECTION - EAST & WEST (NORTH)
M202	FIRE PROTECTION - ZONES
M300	HEATING , COOLING AND CONTROL DEVICES - WEST (SOUTH)
M301	HEATING, COOLING AND CONTROL DEVICES - EAST & WEST (NORTH)
M302	HEATING - ECONOMIZER
M303	HEATING - ECONOMIZER PIPING PATH PHOTOS
M400	VENTILATION - WEST (SOUTH)
M401	VENTILATION - EAST & WEST (NORTH)
M500	MECHANICAL ROOM PLANS - 0 TO 3750 AFF
M501	MECHANICAL ROOM PLANS - 3750 to 8200 AFF
M502	MECHANICAL ROOM SECTIONS
M503	BUILDING SECTIONS - WEST (SOUTH)
M504	BUILDING SECTIONS - EAST & WEST (NORTH)
M600	DOMESTIC WATER & FIRE PROTECTION SCHEMATICS
M601	HEATING WATER & CHILLED WATER SCHEMATICS
M602	VENTILATION SCHEMATICS
M700	SCHEDULES - SHEET 1
M701	SCHEDULES - SHEET 2
M800	DETAILS - PLUMBING & PIPING
M801	DETAILS - HVAC

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Notes

F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.16
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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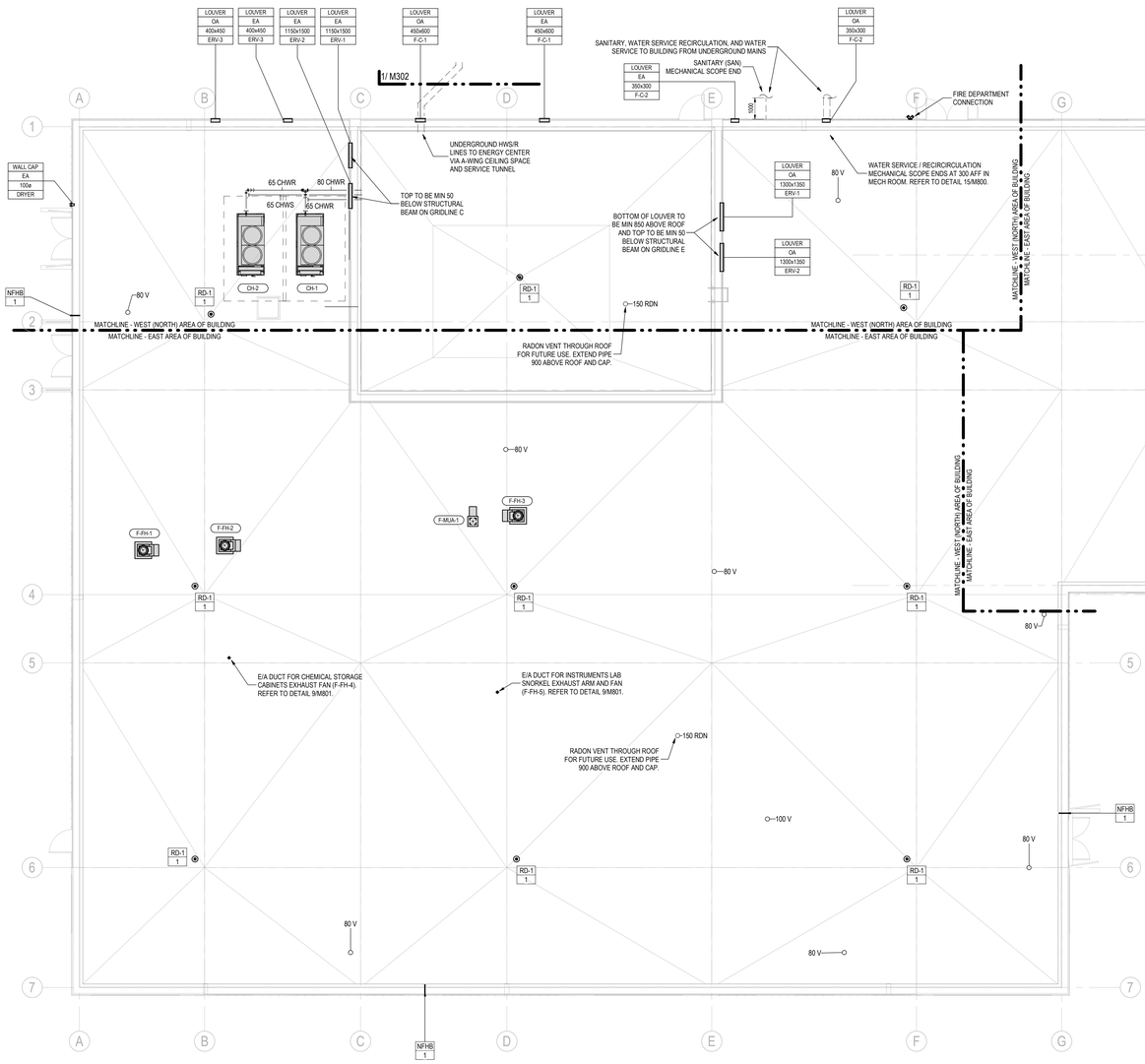
Client/Project
Yukon University
Polaris Project

Title
LEGENDS & GENERAL NOTES

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M000**

2024-08-27 11:18:05 AM
ORIGINAL SHEET - ISO A0



1 M001 MECHANICAL SITE PLAN

1 : 100

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202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
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Notes

GENERAL NOTES - COMMON

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR SHALL ENSURE COORDINATION BETWEEN ALL TRADES, MECHANICAL SUB-TRADES, OWNER AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.
3. SPACE REFERENCES ON MECHANICAL DRAWINGS AS FOLLOWS:
   a. MECHANICAL SPACES: ROOMS SB1028 (MECH) AND SB1031 (WATER).
   b. SERVICE SPACES: ROOMS SB1029 (VESTIBULE), SB1030 (ELECTRICAL), SB1030A (EMERGENCY DISTRIBUTION), SB1007 (LOADING DOCK, STORAGE, RECYCLING/GARBAGE), SB1057 (NETWORK & SECURITY), SB1043 (JANITOR), SB1014 (JANITOR), AND SB1005 (STORAGE).
   c. PUBLIC SPACES: ALL ROOMS NOT BELONGING TO "MECHANICAL SPACES" OR "SERVICE SPACES".
4. FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE AND CONFIRM ALL FIRE RATED WALLS AND FLOORS WITH ARCHITECT AND GENERAL CONTRACTOR.
5. ALL EXPOSED DUCTING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
6. ALL EXPOSED PIPING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
7. ALL PIPING ROUTED INSIDE BUILDING IN CEILING SPACE TO BE SUSPENDED FROM STRUCTURE USING APPROVED SUPPORT SYSTEM. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
8. VARIATIONS FROM SPECIFIED PRODUCTS AND ASSOCIATED WORK REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL COMPENSATION WILL NOT BE CONSIDERED BECAUSE OF DIFFERENCES IN INTERPRETATION OF TECHNICAL PROVISIONS.
9. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, VALVES, ETC. TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES, ETC.
10. TYPICAL INSTALLATION ELEVATIONS AS FOLLOWS:
    a. INSTALL DUCTWORK AND PIPING MAINS ACROSS CORRIDORS AS INDICATED IN SECTIONS.
    b. INSTALL DUCTWORK MAINS AS HIGH AS PRACTICAL.
    c. INSTALL PIPING MAINS IMMEDIATELY BELOW DUCT MAINS. PIPING MAINS MAY BE INSTALLED ALONGSIDE DUCTWORK TO CONSERVE CEILING SPACE WHERE APPLICABLE.
    d. DUCTWORK AND PIPING BRANCHES TO RUN BELOW MAINS WHERE PRACTICAL.
11. COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED ACCESS HATCH/PANELS FOR MECHANICAL EQUIPMENT CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN WALLS. MAKE EFFORT TO LOCATE AND COORDINATE DEVICES REQUIRING ACCESS TO BE IN GROUPED AREAS TO REDUCE THE NUMBER OF ACCESS DOORS REQUIRED. ACCESS DOORS TO BE LOCATED WITH CONSIDERATION ON AND IN ALIGNMENT WITH ARCHITECTURAL DETAILS AND OTHER CEILING/WALL MOUNTED DEVICES TO THE SATISFACTION OF THE ARCHITECT.
12. WHERE AN ISOLATION VALVE OR DRAIN VALVE ARE LOCATED ABOVE DRYWALL CEILING, PROVIDE MIN 300X300 ACCESS HATCH. GROUP ISOLATION / DRAIN VALVES WHERE PRACTICAL TO MINIMIZE THE NUMBER OF ACCESS HATCHES.
13. ALL ISOLATION VALVE HANDLES TO POINT IN DIRECTION OF FLOW WHEN OPEN.
14. THE CONTRACTOR IS TO PROVIDE 300MM CLEARANCE ABOVE THE ELECTRICAL CABLE TRAYS AND TO COORDINATE THE ROUTING OF SYSTEMS WITH THE ELECTRICAL CONTRACTOR. CLEARANCE MAY BE REDUCED TO 150MM WHERE CROSSING CABLE TRAYS OR FOR RUNS LESS THAN 600MM LENGTH PARALLEL TO AND DIRECTLY ABOVE THE CABLE TRAY. CLEARANCE TO BE FROM OUTSIDE OF PIPE/DUCT INSULATION WHERE INSULATION IS REQUIRED.

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Polaris Project

Title
SITE PLAN

Project No. 144214760

Scale As indicated

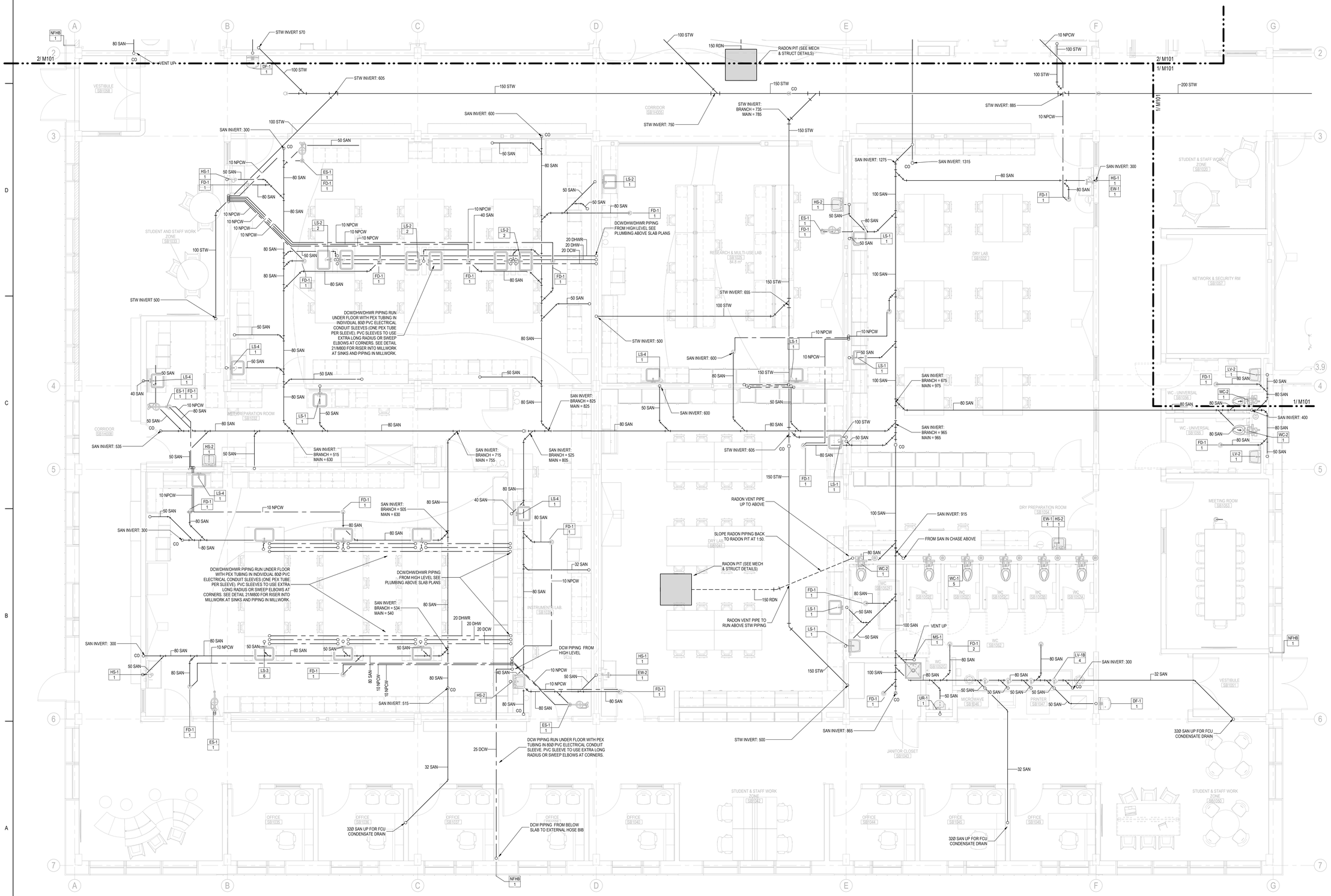
Revision F

Drawing No. **M001**

ORIGINAL SHEET - ISO A0

GENERAL NOTES - PLUMBING:

1. REFER TO DOMESTIC WATER PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
2. INSTALL PLUMBING SERVICES IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND TO MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. PROVIDE ALL PLUMBING VENTS, TRAPS, AND CLEANOUTS IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
4. ALL SAN AND STW PIPING 80Ø AND LESS TO BE SLOPED AT 1:50. ALL SAN AND STW PIPING 100Ø AND GREATER TO BE SLOPED AT 1:100.
5. MINIMUM WATER BRANCH SIZE TO BE 20Ø UNLESS OTHERWISE NOTED.
6. MINIMUM WATER DROP SIZE TO FIXTURE TO BE 15Ø UNLESS OTHERWISE NOTED.
7. MINIMUM SANITARY PIPE SIZE UNDERSLAB IS 50Ø, UNLESS EXPLICITLY NOTES OTHERWISE.
8. ALL PLUMBING PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS PLUMBING PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
9. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING. UNLESS NOTED OTHERWISE, AUTOMATIC TYPE AIR VENTS ARE NOT ACCEPTABLE FOR USE ON PLUMBING SYSTEMS.
10. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
11. PROVIDE FLOOR DRAIN WITH TRAP SEAL PRIMERS WHERE INDICATED ON DRAWINGS. FOR ALL OTHER FLOOR DRAINS PROVIDE A TRAP GUARD.
12. ALL DOMESTIC WATER PIPING (INCLUDE REVERSE OSMOSIS) TO BE INSULATED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
13. PROVIDE SERVICE ISOLATION VALVES ON ALL BRANCH LINES AT MAIN TAKE-OFFS. ALL FIXTURES TO BE COMPLETE WITH SERVICE FIXTURE STOPS.
14. EACH WET AREA SHALL BE PROVIDED WITH WATER HAMMER ARRESTORS ON THE COLD AND HOT WATER CONNECTION LINES TO ONE OF THE PLUMBING FIXTURES SUCH AS LAVATORIES OR SINKS. THE WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE PURPOSES.
15. INVERTS ARE PER FLOOR LEVEL AT INVERT LOCATION. FOR REFERENCE, FLOOR LEVEL WEST OF GRIDLINE H IS 475MM ABOVE FLOOR LEVEL ON EAST SIDE OF GRIDLINE H.
16. WHERE PASSING BELOW THICKENED STRUCTURAL SLAB LOCATIONS (SEE S101 FOR LOCATIONS AND THICKENED SLAB DEPTHS), PIPING INVERTS BELOW BOTTOM OF THICKENING TO BE MIN 100MM FOR 80Ø PIPE AND MIN PIPE DIAMETER PLUS 50MM FOR 100Ø AND LARGER PIPES.



1 / M100 **PLUMBING - BELOW SLAB - WEST (SOUTH)**
1 : 50

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Client/Project Logo

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Issued & Revision				
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		By	Appd	YYYY.MM.DD

File Name: N/A	JH	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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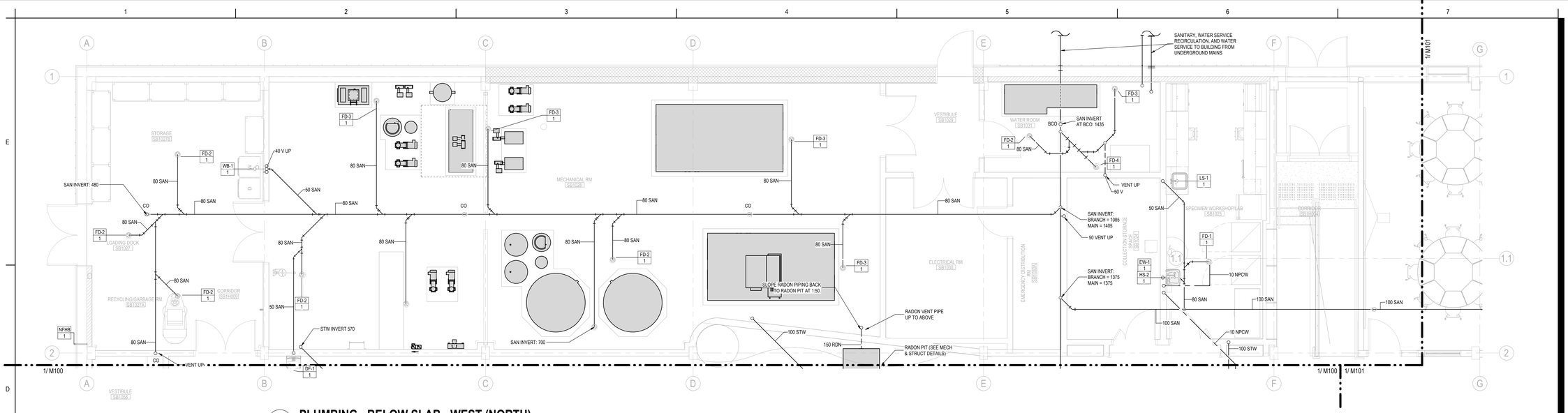
Client/Project
Yukon University
Polaris Project

Title
PLUMBING - BELOW SLAB - WEST (SOUTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M100**

2024-04-27 11:18:25 AM

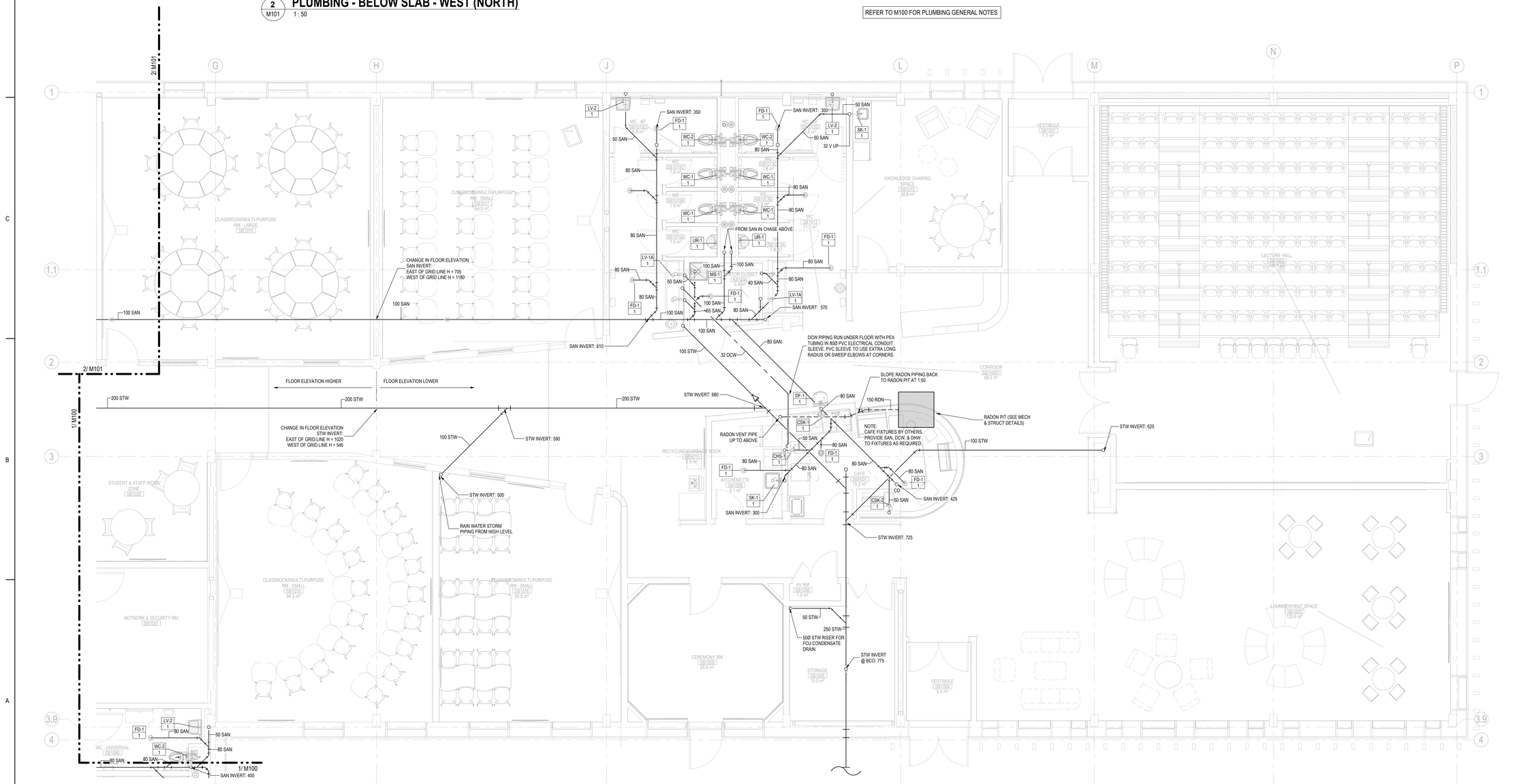
ORIGINAL SHEET - ISO A0



2 M101 PLUMBING - BELOW SLAB - WEST (NORTH)

1 : 50

REFER TO M100 FOR PLUMBING GENERAL NOTES



1 M101 PLUMBING - BELOW SLAB - EAST

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PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
PLUMBING - BELOW SLAB - EAST & WEST (NORTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M101**

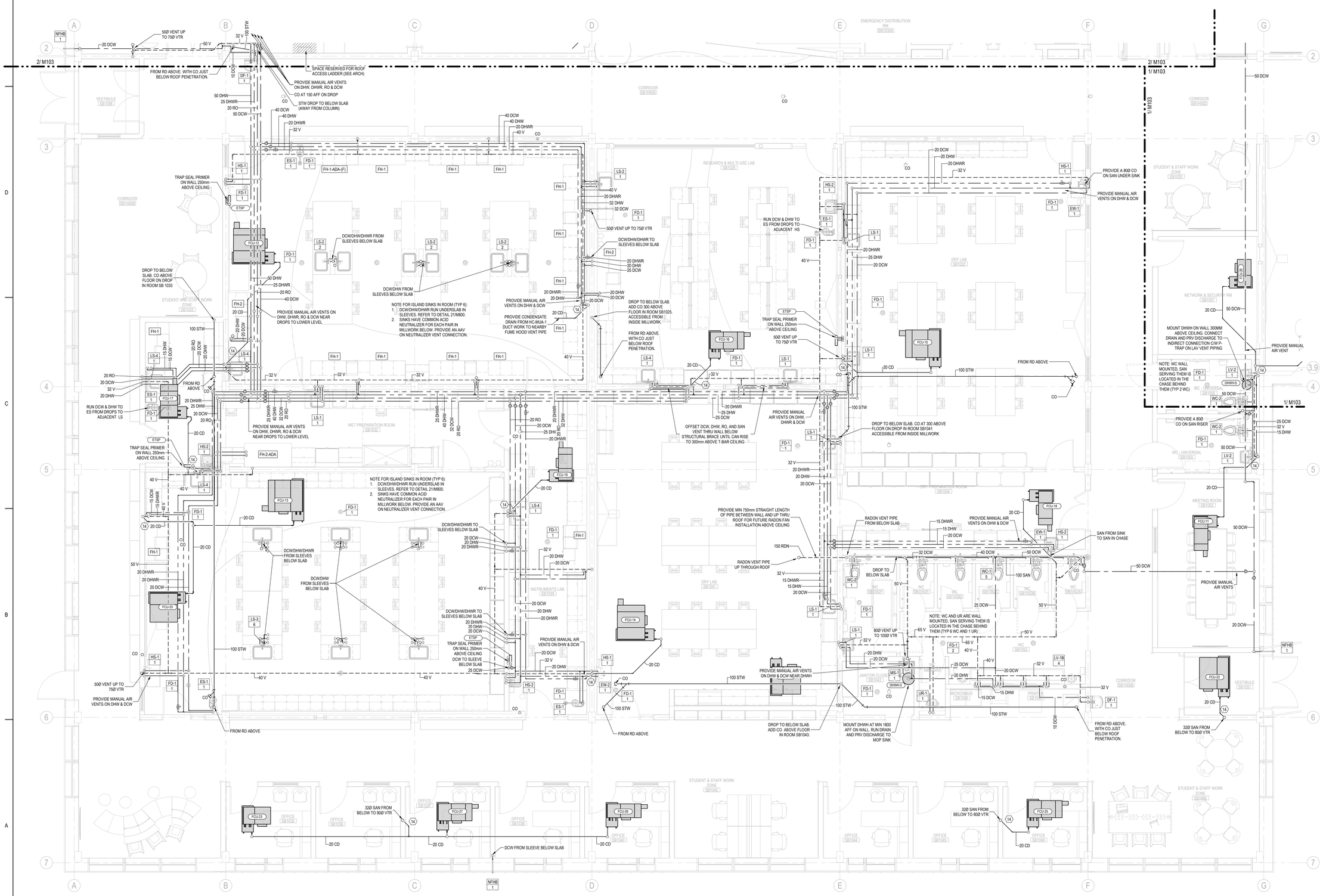
ORIGINAL SHEET - ISO A0

KEYNOTES

#	NOTE
14	CONNECT FCU CONDENSATE DRAIN TO SANITARY VENT OR SANITARY ABOVE CEILING WITH INDIRECT CONNECTION C/W P-TRAP.

GENERAL NOTES - PLUMBING:

1. REFER TO DOMESTIC WATER PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
2. INSTALL PLUMBING SERVICES IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND TO MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. PROVIDE ALL PLUMBING VENTS, TRAPS, AND CLEANOUTS IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
4. ALL SAN AND STW PIPING 80Ø AND LESS TO BE SLOPED AT 1:50. ALL SAN AND STW PIPING 100Ø AND GREATER TO BE SLOPED AT 1:100.
5. MINIMUM WATER BRANCH SIZE TO BE 20Ø UNLESS OTHERWISE NOTED.
6. MINIMUM WATER DROP SIZE TO FIXTURE TO BE 15Ø UNLESS OTHERWISE NOTED.
7. MINIMUM SANITARY PIPE SIZE UNDERSLAB IS 50Ø, UNLESS EXPLICITLY NOTES OTHERWISE.
8. ALL PLUMBING PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS PLUMBING PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
9. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING. UNLESS NOTED OTHERWISE, AUTOMATIC TYPE AIR VENTS ARE NOT ACCEPTABLE FOR USE ON PLUMBING SYSTEMS.
10. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
11. PROVIDE FLOOR DRAIN WITH TRAP SEAL PRIMERS WHERE INDICATED ON DRAWINGS. FOR ALL OTHER FLOOR DRAINS PROVIDE A TRAP GUARD.
12. ALL DOMESTIC WATER PIPING (INCLUDE REVERSE OSMOSIS) TO BE INSULATED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
13. PROVIDE SERVICE ISOLATION VALVES ON ALL BRANCH LINES AT MAIN TAKE-OFFS. ALL FIXTURES TO BE COMPLETE WITH SERVICE FIXTURE STOPS.
14. EACH WET AREA SHALL BE PROVIDED WITH WATER HAMMER ARRESTORS ON THE COLD AND HOT WATER CONNECTION LINES TO ONE OF THE PLUMBING FIXTURES SUCH AS LAVATORIES OR SINKS. THE WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE PURPOSES.
15. INVERTS ARE PER FLOOR LEVEL AT INVERT LOCATION. FOR REFERENCE, FLOOR LEVEL WEST OF GRIDLINE H IS 475MM ABOVE FLOOR LEVEL ON EAST SIDE OF GRIDLINE H.
16. WHERE PASSING BELOW THICKENED STRUCTURAL SLAB LOCATIONS (SEE S101 FOR LOCATIONS AND THICKENED SLAB DEPTHS), PIPING INVERTS BELOW BOTTOM OF THICKENING TO BE MIN 100MM FOR 80Ø PIPE AND MIN PIPE DIAMETER PLUS 50MM FOR 100Ø AND LARGER PIPES.



1 / M102 **PLUMBING - ABOVE SLAB - WEST (SOUTH)**
1 : 50

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File Name: N/A	JH	BZ	RM	2024.03.11
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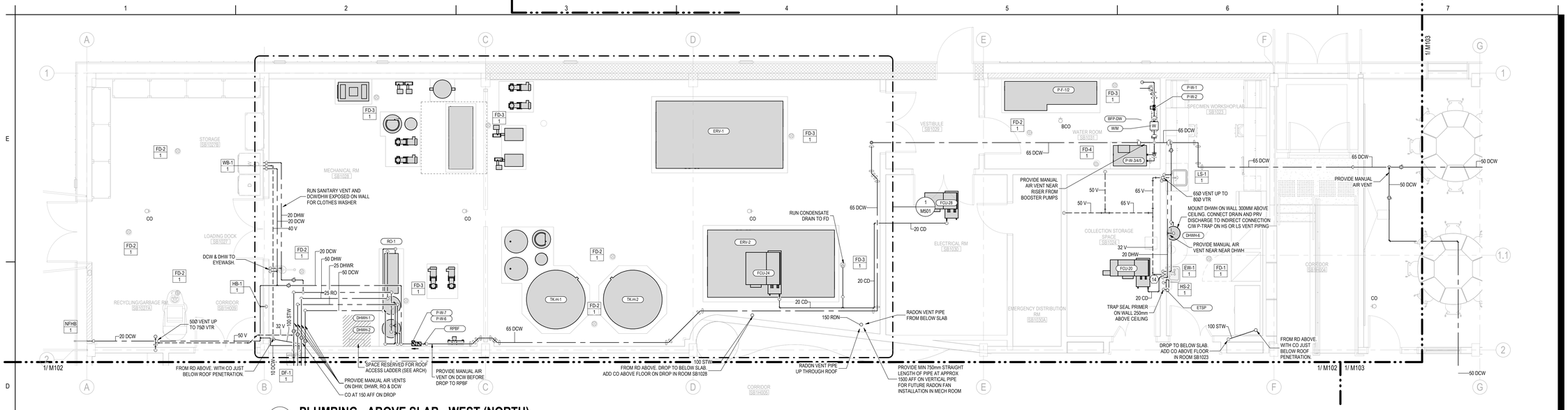
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
PLUMBING - ABOVE SLAB - WEST (SOUTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M102**

ORIGINAL SHEET - ISO A0



2 M103 PLUMBING - ABOVE SLAB - WEST (NORTH)

1 : 50

KEYNOTES

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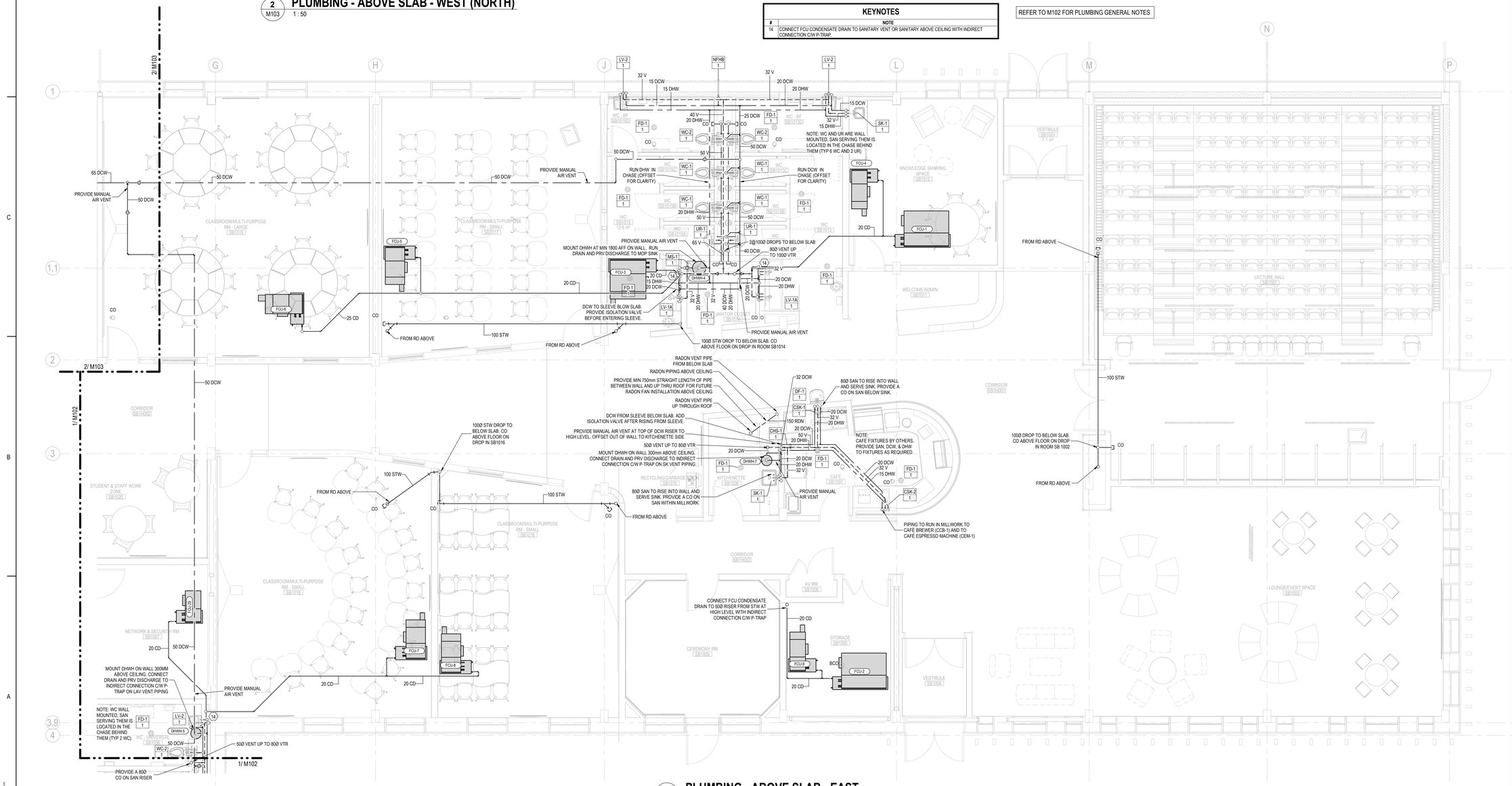

1 M103 PLUMBING - ABOVE SLAB - EAST

1 : 50

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
PLUMBING - ABOVE SLAB - EAST & WEST (NORTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M103**

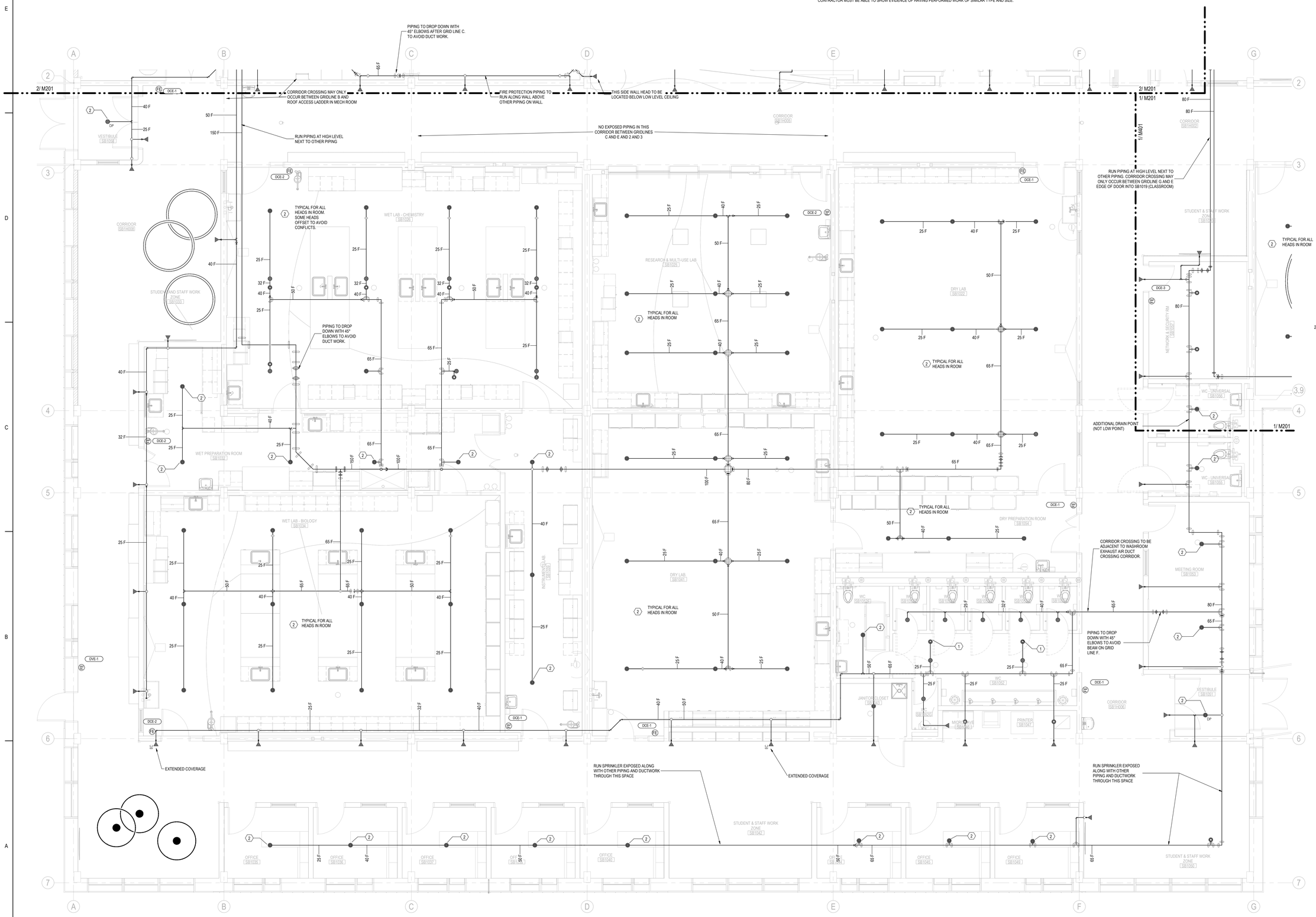
ORIGINAL SHEET - ISO A0

GENERAL NOTES - FIRE PROTECTION:

1. FIRE PROTECTION PLANS ARE FOR GENERAL PIPE ROUTING REQUIREMENTS AND PRICING ONLY. **PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES**. CONTRACTOR TO RETAIN AN ENGINEER LICENSED IN THE YUKON TO PREPARE CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS.
2. PIPE SIZE INDICATED ARE PRELIMINARY AND TO BE CONFIRMED BY FIRE PROTECTION ENGINEER.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS OF THE FIRE PROTECTION SYSTEMS INCLUDING EQUIPMENT AND MATERIAL FOR REVIEW BY THE ENGINEER AND AUTHORITY HAVING JURISDICTION.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING APPROVALS FROM THE AUTHORITY HAVING JURISDICTION FOR THE COMPLETE FIRE PROTECTION SYSTEM.
5. ALL APPLICABLE CODES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION.
6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE WITH THE LATEST EDITION OF NFPA FIRE CODES INCLUDING NFPA 13 AND SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE MOST CURRENT PUBLISHED NATIONAL BUILDING CODE OF CANADA (NBC), NATIONAL FIRE CODE OF CANADA (NFC), AND THE REQUIREMENTS AND STANDARDS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. SEISMIC RESTRAINTS ARE REQUIRED.
8. ONLY EXPERIENCED FIRE PROTECTION CONTRACTORS WILL BE CONSIDERED FOR THIS WORK. THE FIRE PROTECTION CONTRACTOR MUST BE ABLE TO SHOW EVIDENCE OF HAVING PERFORMED WORK OF SIMILAR TYPE AND SIZE.
9. REFER TO FIRE PROTECTION PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
10. UTILIZE UPRIGHT HEADS IN MECHANICAL AND ELECTRICAL SPACES, ABOVE CEILINGS, AND WHERE HEADS MOUNTED ON EXPOSED PIPING (UNLESS NOTED AS SIDEWALL HEADS).
11. UTILIZE SIDEWALL HEADS IN CORRIDORS AND STUDENT/STAFF WORK AREAS UNLESS INDICATED OR SUPPLEMENTED OTHERWISE.
12. PROVIDE ADDITIONAL HEADS AS REQUIRED IN CEILING SPACE WHERE DUCTING AND PIPING CREATES SUFFICIENT OBSTRUCTIONS TO SPRINKLER HEAD DISCHARGE PATTERN.
13. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
14. PROTECT SPRINKLER HEADS WHERE EXPOSED PIPING IS TO BE PAINTED IN PUBLIC AREAS.
15. PIPING NOT TO BE RUN IN CORRIDORS EXCEPT WHERE EXPLICITLY NOTED TO CROSS CORRIDOR. ALL PIPING TO BE LOCATED ABOVE ROOMS AND SPACE.
16. PROVIDE GUARDS ON HEADS IN MECHANICAL ROOM (SB1028), ELECTRICAL ROOM (SB1030 & 1030A), WATER ROOM (SB1031), LOADING DOCK & STORAGE AREA (SB1027), AND NETWORK & SECURITY ROOM (SB1057)

KEYNOTES

#	NOTE
1	UPRIGHT HEAD ABOVE CEILING
2	PENDANT BELOW AND UPRIGHT HEAD ABOVE CEILING



1 M200 **FIRE PROTECTION - WEST (SOUTH)**
1 : 50

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Client/Project Logo

Yukon University

Notes

GENERAL NOTES - COMMON

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3. SPACE REFERENCES ON MECHANICAL DRAWINGS AS FOLLOWS:
   a. MECHANICAL SPACES: ROOMS SB1028 (MECH) AND SB1031 (WATER).
   b. SERVICE SPACES: ROOMS SB1029 (VESTIBULE), SB1030 (ELECTRICAL), SB1030A (EMERGENCY DISTRIBUTION), SB1027 (LOADING DOCK, STORAGE, RECYCLING/GARBAGE), SB1057 (NETWORK & SECURITY), SB1043 (JANITOR), SB1014 (JANITOR), AND SB1005 (STORAGE).
   c. PUBLIC SPACES: ALL ROOMS NOT BELONGING TO "MECHANICAL SPACES" OR "SERVICE SPACES".
4. FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE AND CONFIRM ALL FIRE RATED WALLS AND FLOORS WITH ARCHITECT AND GENERAL CONTRACTOR.
5. ALL EXPOSED DUCTING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
6. ALL EXPOSED PIPING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
7. ALL PIPING ROUTED INSIDE BUILDING IN CEILING SPACE TO BE SUSPENDED FROM STRUCTURE USING APPROVED SUPPORT SYSTEM. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
8. VARIATIONS FROM SPECIFIED PRODUCTS AND ASSOCIATED WORK REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL COMPENSATION WILL NOT BE CONSIDERED BECAUSE OF DIFFERENCES IN INTERPRETATION OF TECHNICAL PROVISIONS.
9. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, VALVES, ETC. TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES, ETC.
10. TYPICAL INSTALLATION ELEVATIONS AS FOLLOWS:
    a. INSTALL DUCTWORK AND PIPING MAINS ACROSS CORRIDORS AS INDICATED IN SECTIONS.
    b. INSTALL DUCTWORK MAINS AS HIGH AS PRACTICAL.
    c. INSTALL PIPING MAINS IMMEDIATELY BELOW DUCT MAINS. PIPING MAINS MAY BE INSTALLED ALONGSIDE DUCTWORK TO CONSERVE CEILING SPACE WHERE APPLICABLE.
    d. DUCTWORK AND PIPING BRANCHES TO RUN BELOW MAINS WHERE PRACTICAL.
11. COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED ACCESS HATCHPANELS FOR MECHANICAL EQUIPMENT CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN WALLS. MAKE EFFORT TO LOCATE AND COORDINATE DEVICES REQUIRING ACCESS TO BE IN GROUPED AREAS TO REDUCE THE NUMBER OF ACCESS DOORS REQUIRED. ACCESS DOORS TO BE LOCATED WITH CONSIDERATION ON AND IN ALIGNMENT WITH ARCHITECTURAL DETAILS AND OTHER CEILING/WALL MOUNTED DEVICES TO THE SATISFACTION OF THE ARCHITECT.
12. WHERE AN ISOLATION VALVE OR DRAIN VALVE ARE LOCATED ABOVE DRYWALL CEILING, PROVIDE MIN 300X300 ACCESS HATCH. GROUP ISOLATION / DRAIN VALVES WHERE PRACTICAL TO MINIMIZE THE NUMBER OF ACCESS HATCHES.
13. ALL ISOLATION VALVE HANDLES TO POINT IN DIRECTION OF FLOW WHEN OPEN.
14. THE CONTRACTOR IS TO PROVIDE 300MM CLEARANCE ABOVE THE ELECTRICAL CABLE TRAYS AND TO COORDINATE THE ROUTING OF SYSTEMS WITH THE ELECTRICAL CONTRACTOR. CLEARANCE MAY BE REDUCED TO 150MM WHERE CROSSING CABLE TRAYS OR FOR RUNS LESS THAN 600MM LENGTH PARALLEL TO AND DIRECTLY ABOVE THE CABLE TRAY. CLEARANCE TO BE FROM OUTSIDE OF PIPE/DUCT INSULATION WHERE INSULATION IS REQUIRED.

			B.ZRUM	
F	RE-ISSUED FOR TENDER	A.MILLS		2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

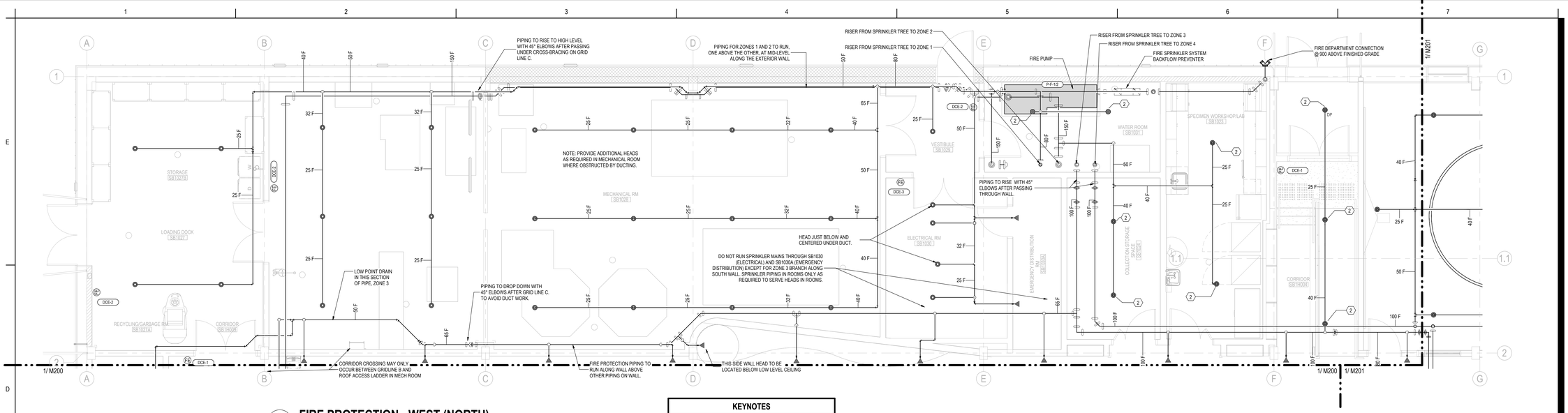
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
FIRE PROTECTION - WEST (SOUTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M200**

2024-09-27 11:19:21 AM
ORIGINAL SHEET - ISO A0



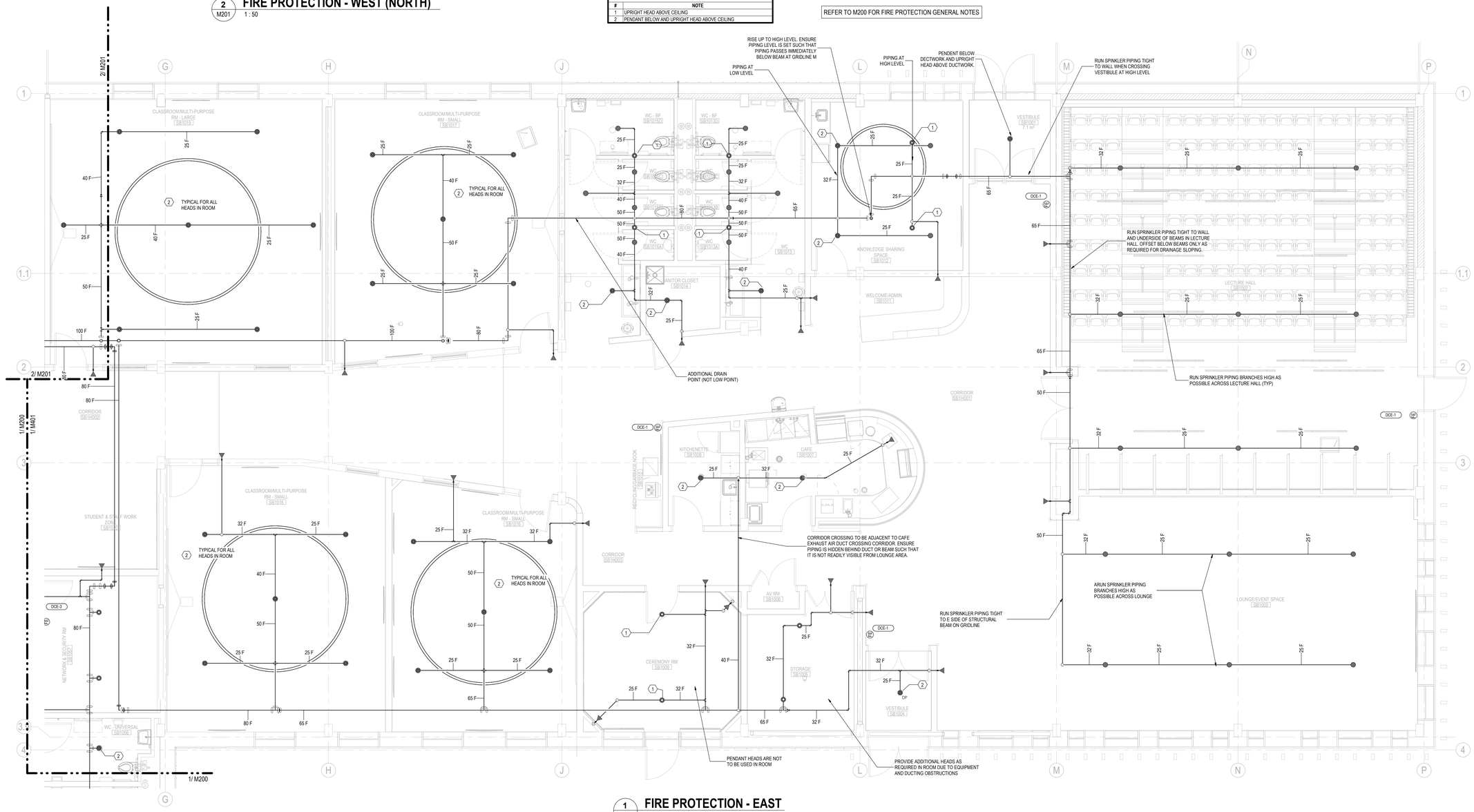
2 M201 FIRE PROTECTION - WEST (NORTH)

1 : 50

KEYNOTES

#	NOTE
1	UPRIGHT HEAD ABOVE CEILING
2	PENDANT BELOW AND UPRIGHT HEAD ABOVE CEILING

REFER TO M200 FOR FIRE PROTECTION GENERAL NOTES



1 M201 FIRE PROTECTION - EAST

1 : 50

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Notes

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			B.ZRUM	
F	RE-ISSUED FOR TENDER	A.MILLS		2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR IFOE REVIEW	B.ZRUM	B.ZRUM	2024.03.09
Issued & Revision		By	Appd.	YYYY.MM.DD
File Name: N/A		BZ	BZ	RM 2024.03.11
		Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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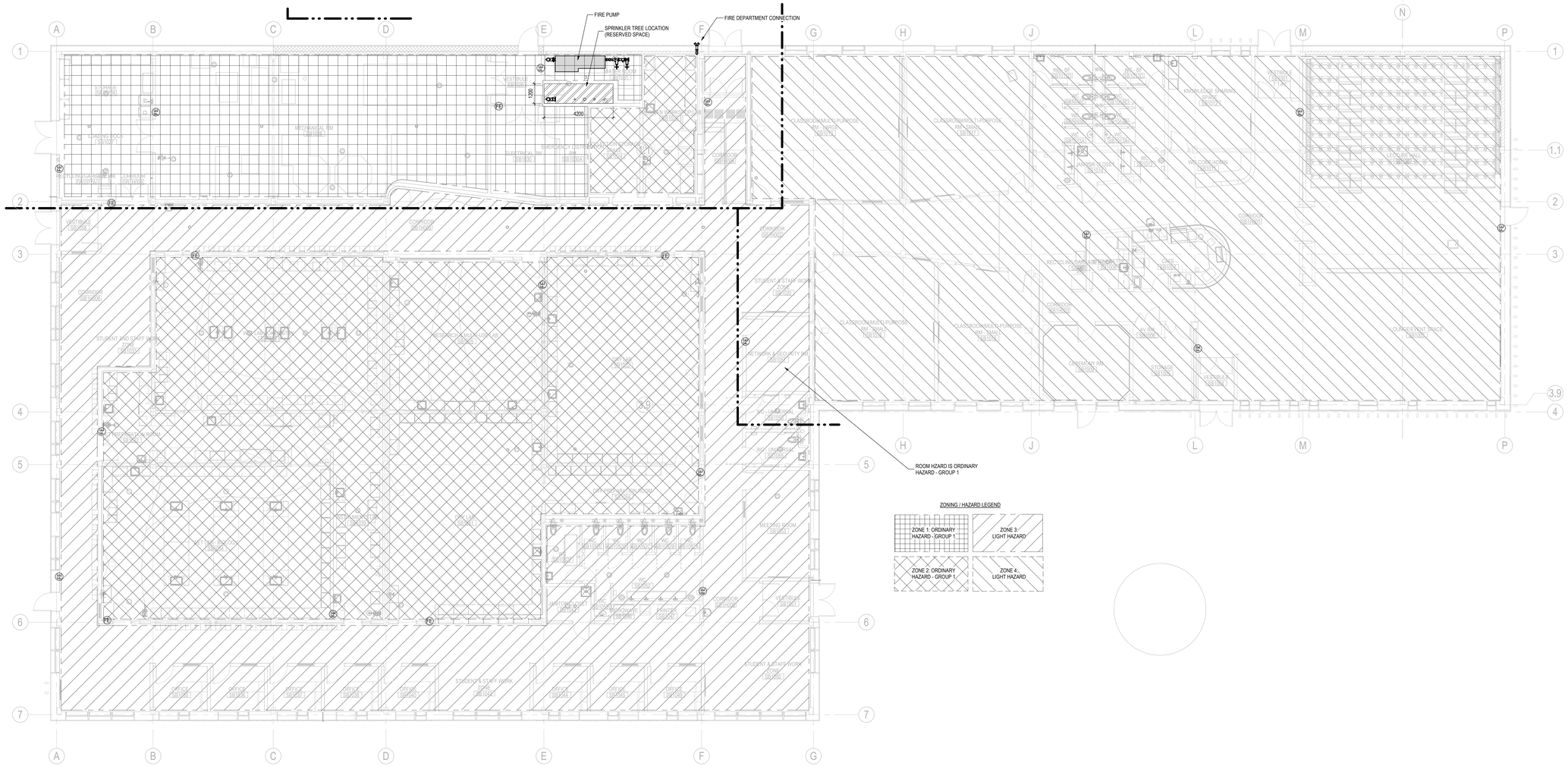
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
FIRE PROTECTION - EAST & WEST (NORTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M201**

ORIGINAL SHEET - ISO A0



ZONING / HAZARD LEGEND

ZONE 1: ORDINARY HAZARD - GROUP 1	ZONE 3: LIGHT HAZARD
ZONE 2: ORDINARY HAZARD - GROUP 1	ZONE 4: LIGHT HAZARD

1 / M202 FIRE PROTECTION ZONE PLAN

1 : 100

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F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.14
		By	Appd.	YYYY.MM.DD

Issued & Revision

File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
FIRE PROTECTION - ZONES

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M202**

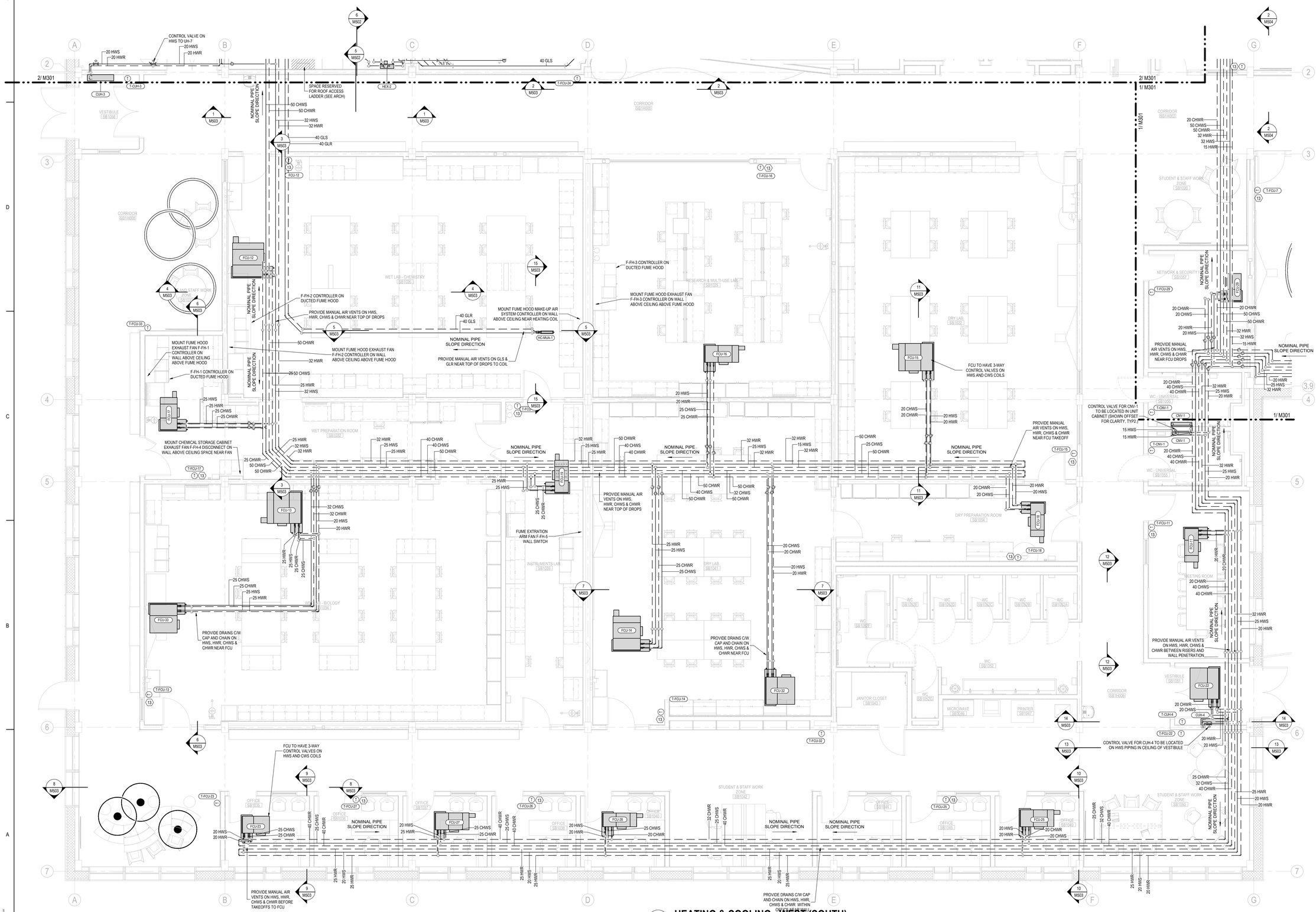
ORIGINAL SHEET - ISO A0

KEYNOTES

#	NOTE
13	THERMOSTAT TO ALSO HAVE SPACE CO2 SENSOR.

GENERAL NOTES - HEATING AND COOLING:

1. REFER TO HYDRONIC PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS.
2. MINIMUM HYDRONIC PIPING SIZE TO BE 20MM0 UNLESS OTHERWISE NOTED.
3. ALL HYDRONIC PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS HYDRONIC PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
4. INSTALL AIR VENTS AT ALL HIGH POINTS IN PIPING. IN MECHANICAL AND SERVICE SPACES USE AUTOMATIC AIR VENTS C/W AN ISOLATION VALVE. IN PUBLIC SPACES INCLUDING ABOVE T-BAR CEILINGS USE MANUAL AIR VENTS.
5. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
6. ALL FCU TO HAVE 2-WAY CONTROL VALVES ON HW AND CHW CONNECTIONS UNLESS NOTED OTHERWISE.
7. COORDINATE THERMOSTAT LOCATIONS WITH ELECTRICAL SWITCHES, FURNITURE, ETC. MOUNT THERMOSTATS AT 1200MM ABOVE FINISHED FLOOR LEVEL.
8. PLAN SHOWS THERMOSTAT LOCATIONS FOR HEATING, COOLING AND VENTILATION EQUIPMENT. PLAN ALSO SHOWS LOCATIONS FOR OTHER CONTROL DEVICE (TIMERS, RH SENSORS, ETC.) THAT MAY NOT BE ASSOCIATED WITH HEATING OR COOLING SYSTEMS.



1 M300 **HEATING & COOLING - WEST (SOUTH)**
1 : 50

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E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
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A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	JH	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

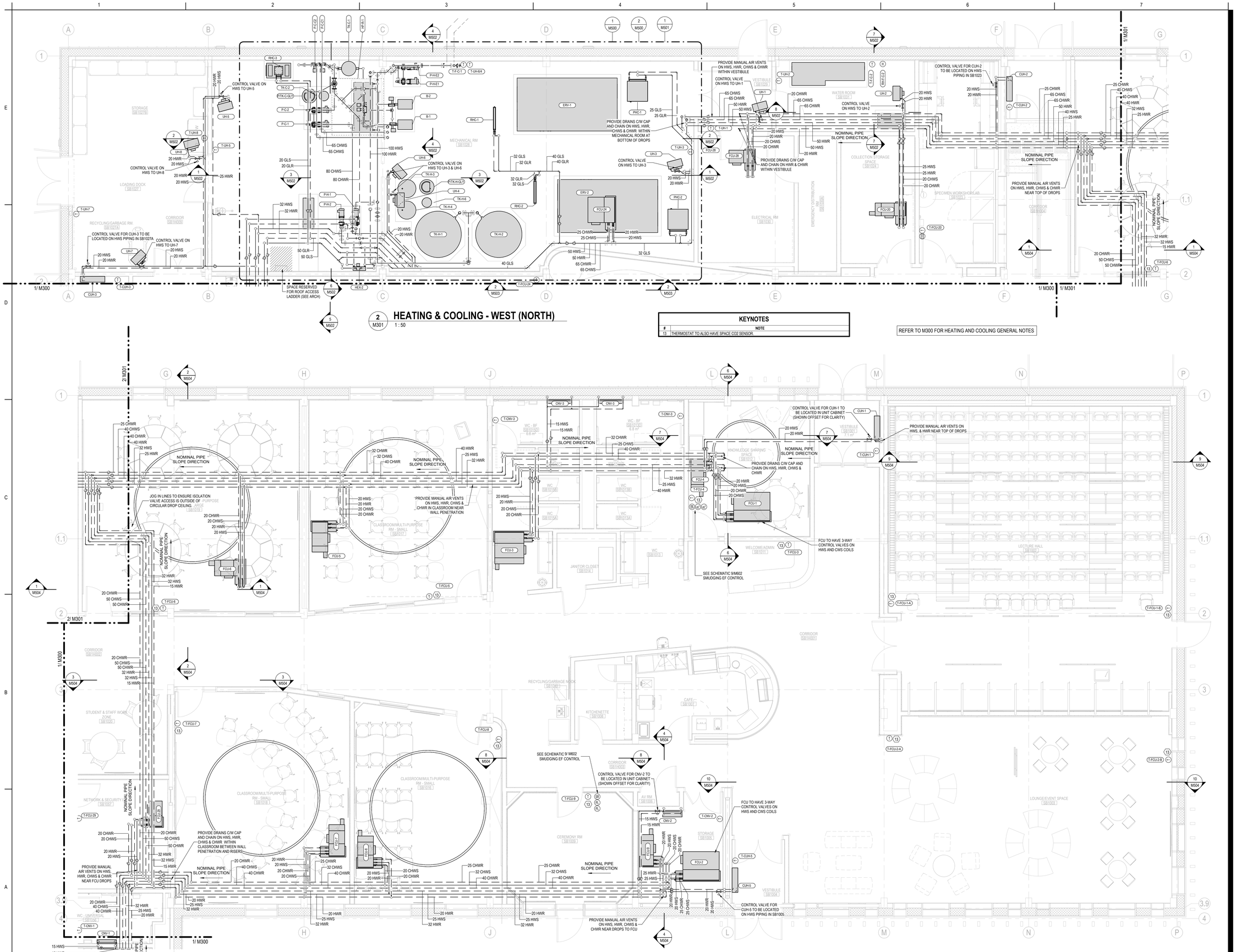
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
HEATING , COOLING AND CONTROL DEVICES - WEST (SOUTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M300**

ORIGINAL SHEET - ISO A0



2 M301 HEATING & COOLING - WEST (NORTH)

1 : 50

KEYNOTES	
#	NOTE
13	THERMOSTAT TO ALSO HAVE SPACE CO2 SENSOR.

REFER TO M300 FOR HEATING AND COOLING GENERAL NOTES

1 M301 HEATING & COOLING - EAST

1 : 50

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Yukon University

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3. SPACE REFERENCES ON MECHANICAL DRAWINGS AS FOLLOWS:
   a. MECHANICAL SPACES: ROOMS SB1028 (MECH) AND SB1031 (WATER).
   b. SERVICE SPACES: ROOMS SB1029 (VESTIBULE), SB1030 (ELECTRICAL), SB1030A (EMERGENCY DISTRIBUTION), SB1027 (LOADING DOCK, STORAGE, RECYCLING/GARBAGE), SB1057 (NETWORK & SECURITY), SB1043 (JANITOR), SB1014 (JANITOR), AND SB1005 (STORAGE).
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7. ALL PIPING ROUTED INSIDE BUILDING IN CEILING SPACE TO BE SUSPENDED FROM STRUCTURE USING APPROVED SUPPORT SYSTEM. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
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9. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, VALVES, ETC. TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES, ETC.
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    a. INSTALL DUCTWORK AND PIPING MAINS ACROSS CORRIDORS AS INDICATED IN SECTIONS.
    b. INSTALL DUCTWORK MAINS AS HIGH AS PRACTICAL.
    c. INSTALL PIPING MAINS IMMEDIATELY BELOW DUCT MAINS. PIPING MAINS MAY BE INSTALLED ALONGSIDE DUCTWORK TO CONSERVE CEILING SPACE WHERE APPLICABLE.
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Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	JH	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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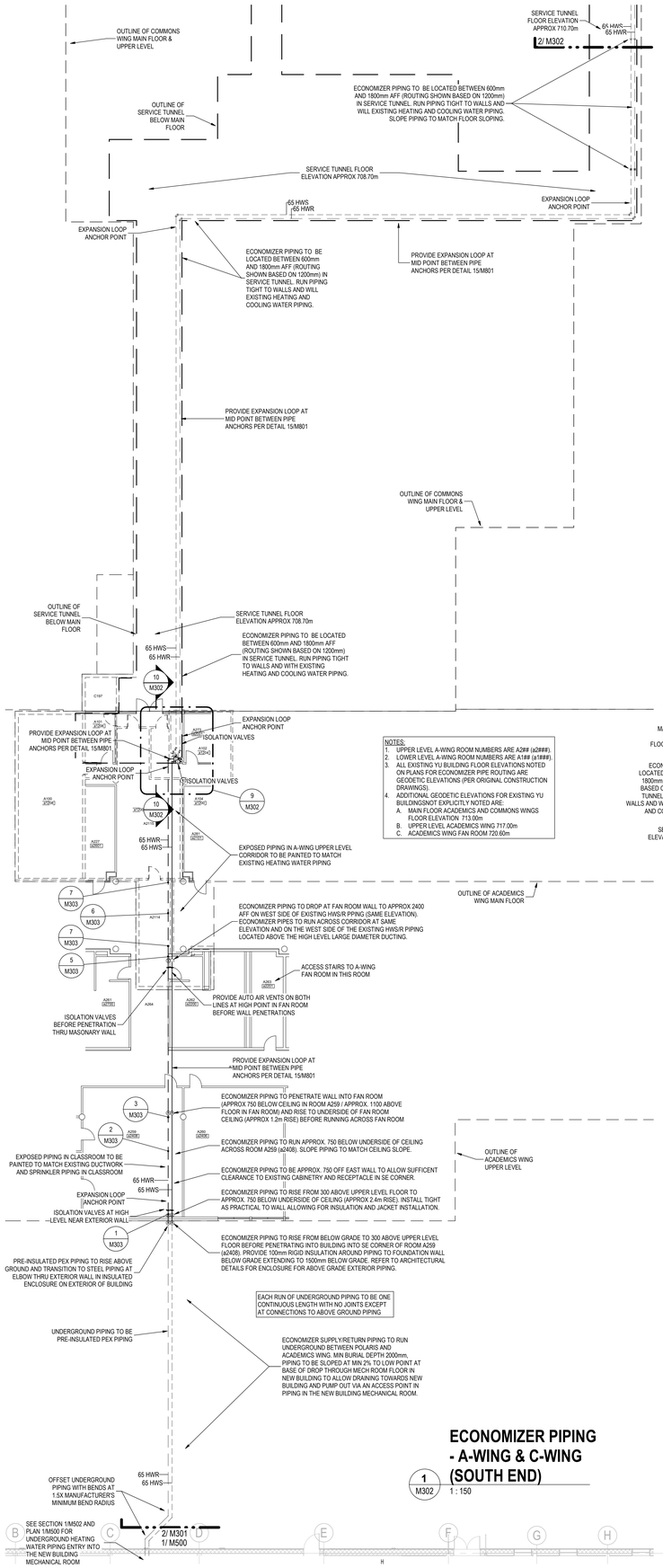
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
HEATING, COOLING AND CONTROL DEVICES - EAST & WEST (NORTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M301**

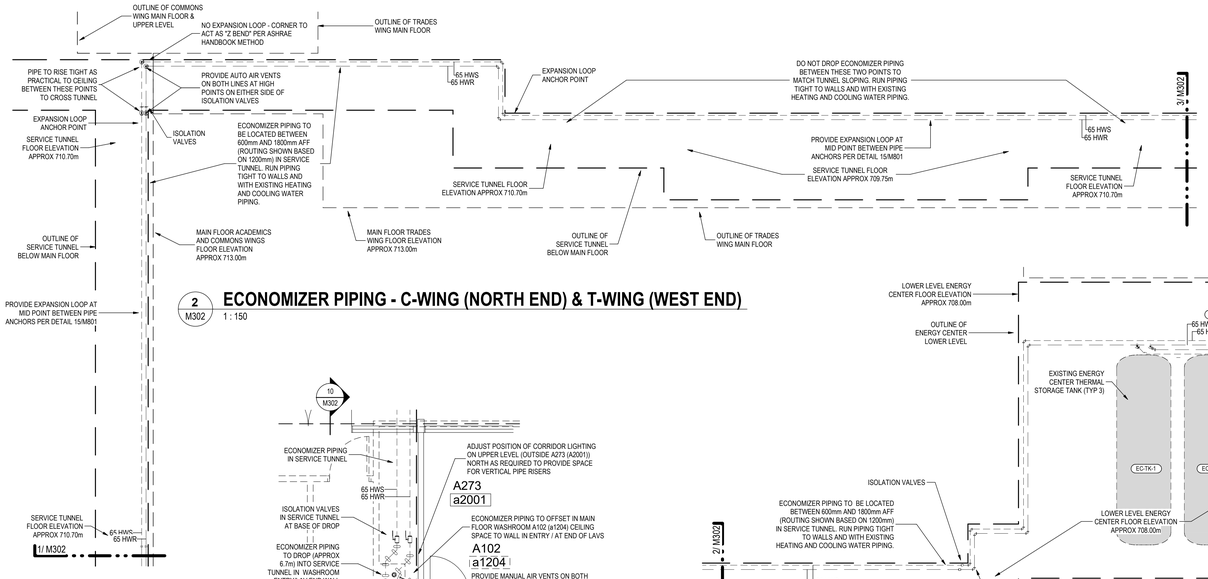
2024-09-17 12:53 AM
ORIGINAL SHEET - ISO A0



NOTES:
1. UPPER LEVEL A-WING ROOM NUMBERS ARE A2## (a2###).
2. LOWER LEVEL A-WING ROOM NUMBERS ARE A1## (a1###).
3. ALL EXISTING YU BUILDING FLOOR ELEVATIONS NOTED ON PLANS FOR ECONOMIZER PIPE ROUTING ARE GEODETIC ELEVATIONS (PER ORIGINAL CONSTRUCTION DRAWINGS).
4. ADDITIONAL GEODETIC ELEVATIONS FOR EXISTING YU BUILDINGSNOT EXPLICITLY NOTED ARE:
   A. MAIN FLOOR ACADEMICS AND COMMONS WINGS FLOOR ELEVATION 713.00m
   B. UPPER LEVEL ACADEMICS WING 717.00m
   C. ACADEMICS WING FAN ROOM 720.60m

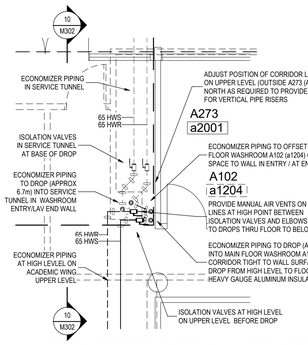
ECONOMIZER PIPING - A-WING & C-WING (SOUTH END)

1 M302 1 : 150



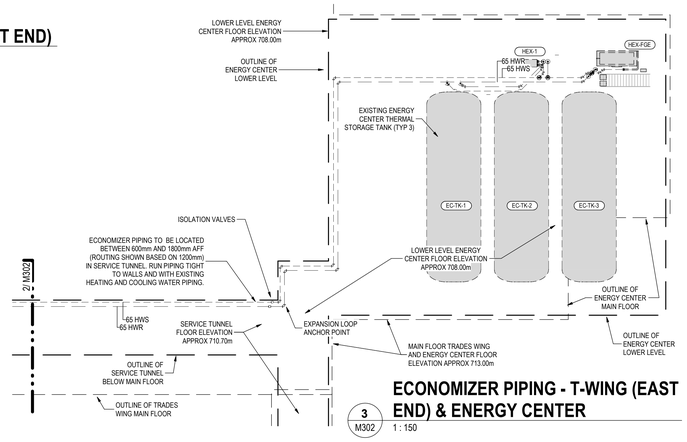
ECONOMIZER PIPING - C-WING (NORTH END) & T-WING (WEST END)

2 M302 1 : 150



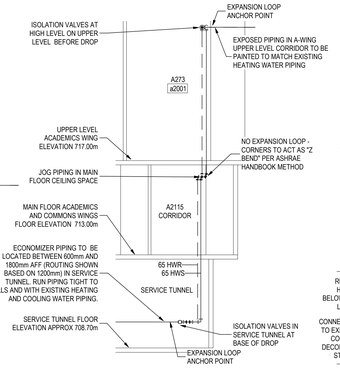
ECONOMIZER PIPING - A-WING DROP TO SERVICE TUNNEL

9 M302 1 : 50



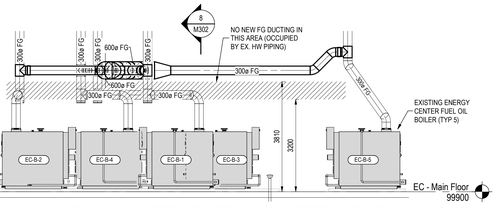
ECONOMIZER PIPING - T-WING (EAST END) & ENERGY CENTER

3 M302 1 : 150



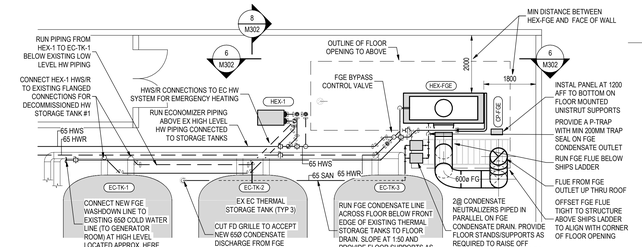
ECONOMIZER PIPING - ACADEMIC WING DROP TO SERVICE TUNNEL SECTION

10 M302 1 : 100



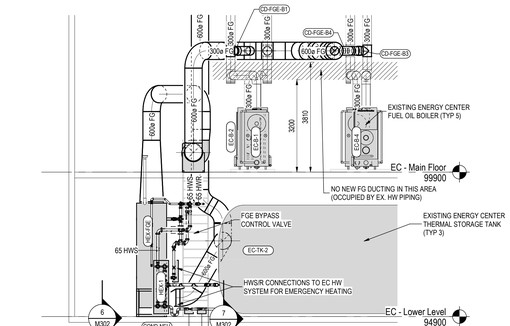
ECONOMIZER - ENERGY CENTER - SECTION 3

7 M302 1 : 75



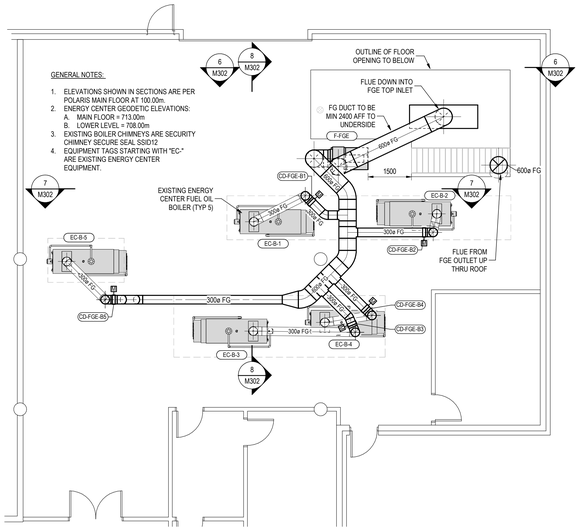
ECONOMIZER - ENERGY CENTER - LOWER LEVEL

5 M302 1 : 75



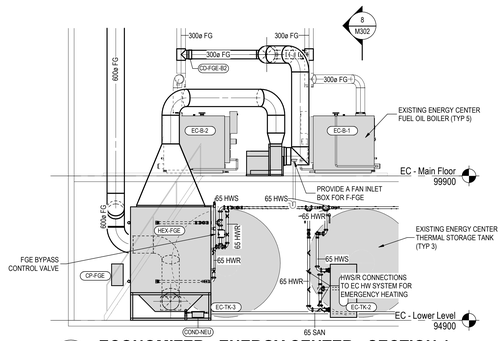
ECONOMIZER - ENERGY CENTER - SECTION 2

8 M302 1 : 75



ECONOMIZER - ENERGY CENTER - MAIN FLOOR

4 M302 1 : 75



ECONOMIZER - ENERGY CENTER - SECTION 1

6 M302 1 : 75

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Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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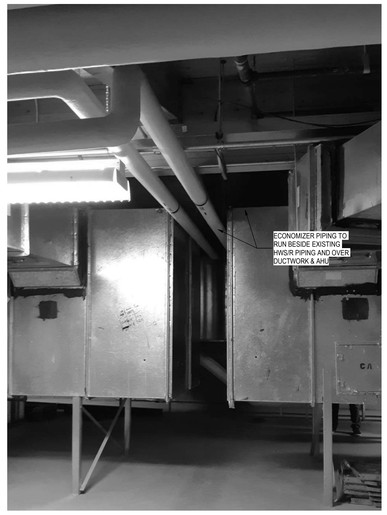
Client/Project
Yukon University
Polaris Project

Title
HEATING - ECONOMIZER

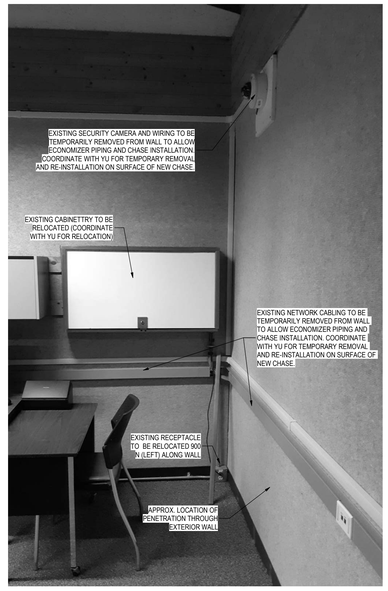
Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M302**

ORIGINAL SHEET - ISO A0



4 M303 **PHOTO 4 - A-WING FAN ROOM S WALL LOOKING N**
NTS

2 M303 **PHOTO 2 - A259 E WALL**
NTS



1 M303 **PHOTO 1 - A259 SE CORNER**
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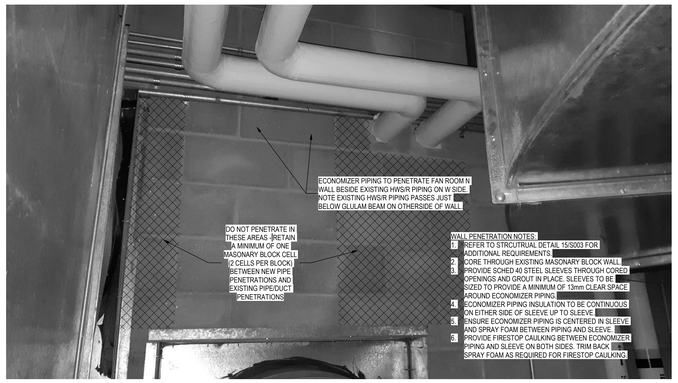
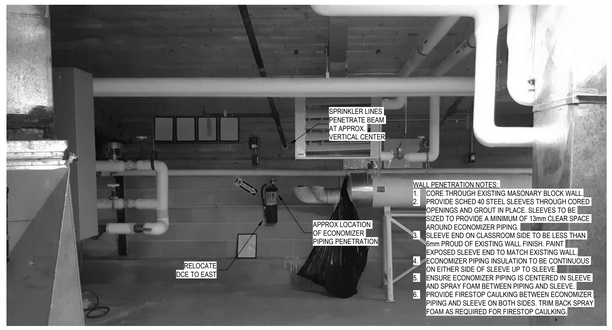
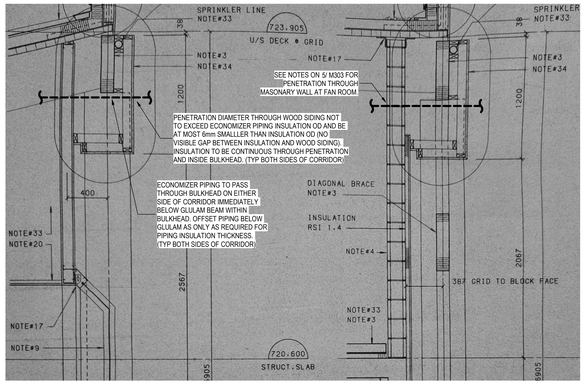


5 M303 **PHOTO 5 - A-WING FAN ROOM N WALL**
NTS

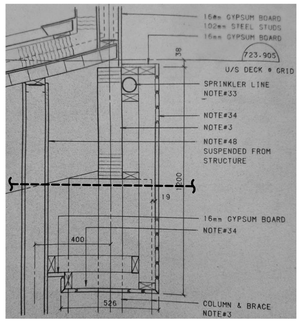


3 M303 **PHOTO 3 - A-WING FAN ROOM S WALL**
NTS

6 M303 **PHOTO 6 - A-WING CORRIDOR**
NTS



7 M303 **PHOTO 7 - A-WING CORRIDOR ORIGINAL BULKHEAD DETAILS**
NTS



ORIGINAL DETAIL NOTES:
* TEXT IN SQUARE BRACKETS [ ] ADDED TO CLARIFY NOTES IN DETAILS
3. SEE [ORIGINAL] STRUCTURAL DRAWINGS
4. CONCRETE BLOCK WALL
9. ALUMINUM WIDOW FRAME & GLAZING
17. SLIP TRACK CONNECTION (20mm DEFLECTION) [BETWEEN MASONARY WALL AND ROOF DECK]
20. SUSPENDED CEILING (SEE [ORIGINAL] CEILING PLANS [FOR LOCATIONS])
33. SEE [ORIGINAL] MECHANICAL DRAWINGS
34. 19x89 HORIZONTAL WOOD SIDING ON 38x89 WOOD SUSPENDED FRAMING TO SUIT
48. 16mm GYPSUM BOARD ON 102mm STEEL STUDS

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202-107 Main Street
Whitehorse, YT Y1A 2A7
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Notes

			B.ZRUM	
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Issued & Revision		By	Appd	YYYY.MM.DD
File Name: N/A		BZ	BZ	RM
		Dwn.	Dsgn.	Chkd.
				2024.03.11
				YYYY.MM.DD

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PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
HEATING - ECONOMIZER PIPING PATH PHOTOS

Project No. 144214760
Scale NTS
Revision F
Drawing No. **M303**

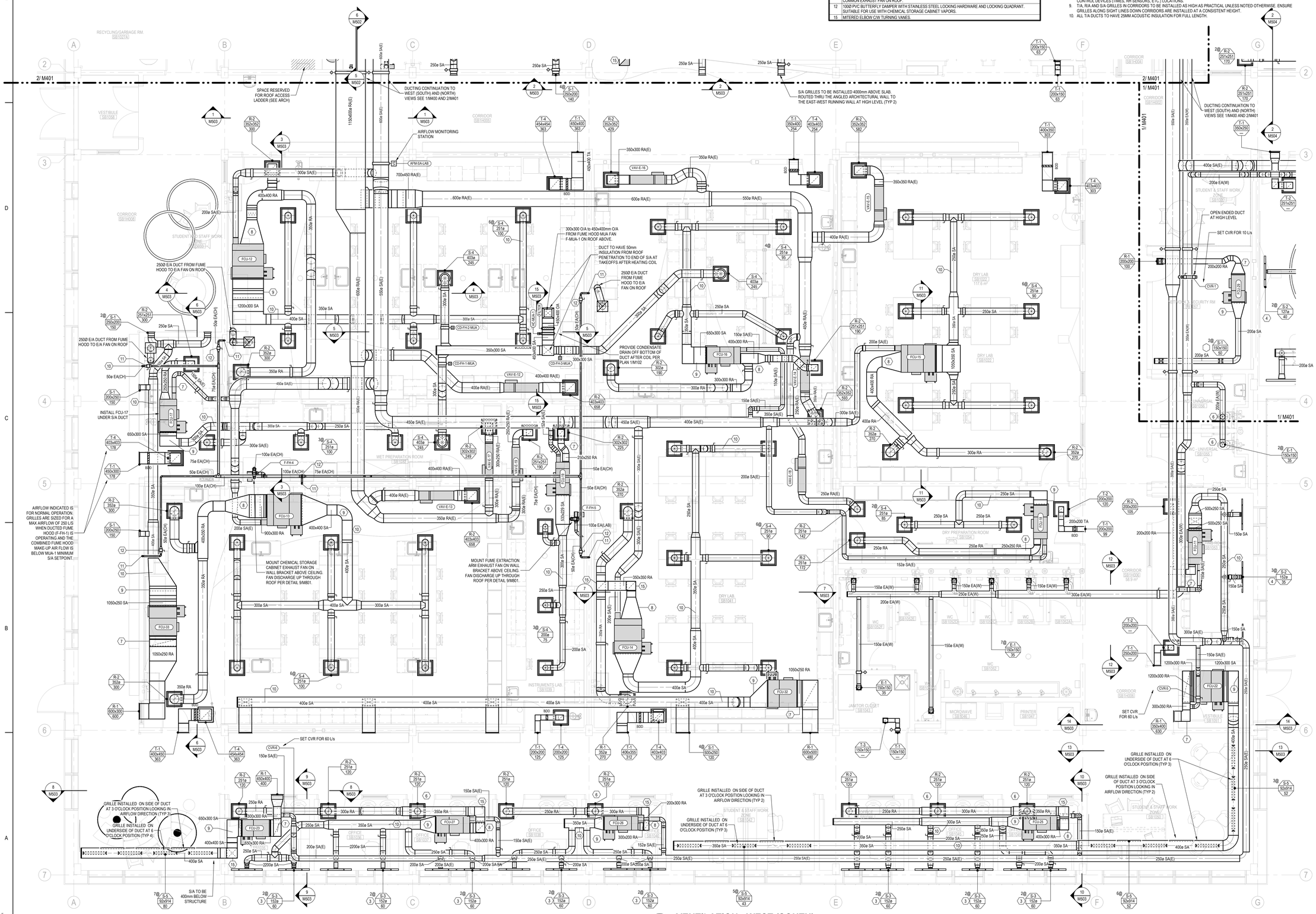
ORIGINAL SHEET - ISO A0

KEYNOTES

#	NOTE
3	ADJUST DIFFUSER SLOT ON WALL SIDE TO BLOW DOWNWARDS AT CORNER OF WALL/FLOOR. ADJUST DIFFUSER SLOT ON INTERIOR SIDE TO BLOW HORIZONTALLY ACROSS CEILING.
4	ADJUST DIFFUSER SLOT TO BLOW DOWNWARDS AT CORNER OF WALL/FLOOR
6	BD ON DROP/RISE TO FROM DIFFUSER/GRILLE
7	R/A DUCT FROM R/A GRILLE TO FCU TO HAVE 25mm ACOUSTIC INSULATION.
8	R/A DUCT(S) FROM FCU TO MIN 3000mm UPSTREAM TO HAVE 25mm ACOUSTIC INSULATION.
9	S/A DUCT(S) FROM FCU TO 1) MIN 3000mm DOWNSTREAM OR 2) UP TO AND INCLUDING 2ND ELBOW, TO HAVE 25mm ACOUSTIC INSULATION.
10	FCU S/A DUCT CONCEALED IN CEILING SPACE (ABOVE T-BAR OR DRYWALL) OR IN WALL. CAVITY TO BE INSULATED FULL LENGTH FROM FCU TO GRILLES PER SPECIFICATIONS. INSULATION NOT REQUIRED WHERE FCU S/A DUCT HAS ACOUSTIC INSULATION. INSULATION NOT REQUIRED WHERE S/A DUCT EXPOSED TO SPACE.
11	RUN CHEMICALLY RESISTANT PVC DUCTWORK (SCHED 40 PVC PIPE) FROM CHEMICAL STORAGE CABINET TO COMMON EXHAUST FAN ON ROOF.
12	1000Ø PVC BUTTERFLY DAMPER WITH STAINLESS STEEL LOCKING HARDWARE AND LOCKING QUADRANT. SUITABLE FOR USE WITH CHEMICAL STORAGE CABINET VAPORS.
15	MITERED ELBOW C/W TURNING VANES.

GENERAL NOTES - VENTILATION:

1. LOCATION OF DIFFUSERS AND GRILLES SHOWN ON DRAWING ARE APPROXIMATE ONLY. COORDINATE WITH ELECTRICAL LIGHTING LAYOUT, SPRINKLER LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
2. ALIGN DIFFUSERS AND GRILLES TO MATCH T-BAR CEILING. SEE ARCHITECTURE REFLECTED CEILING PLANS.
3. WHERE BALANCING DAMPERS ARE REQUIRED, LOCATE AS CLOSE TO MAIN ON BRANCH AS PRACTICAL TO MINIMIZE NOISE TRANSMISSION TO DIFFUSER OR GRILLE.
4. PROVIDE BALANCING DAMPERS AS FOLLOWS:
   A. WHERE INDICATED
   B. ALL SUPPLY DIFFUSERS AND GRILLES SHALL HAVE UPSTREAM BALANCING DAMPERS EXCEPT WHERE DIFFUSER OR GRILLE HAS AN INTEGRAL BALANCING DAMPER
5. DUCT TAKE-OFFS TO BE MADE WITH 45 DEGREE BEVELED TAKE-OFFS UNLESS SPACE REQUIREMENTS DICTATE OTHERWISE.
6. WHERE FANCOILS ARE INSTALLED ABOVE A CEILING (T-BAR OR DRYWALL), LOCATE FANCOILS 300-600MM ABOVE CEILINGS FOR EACH OF ACCESS AND SERVICE. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, COIL VALVES, AND FILTERS TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES.
7. FANCOIL DUCTWORK TO BE INSTALLED AT ELEVATION WITH SPACE IT SERVES TO MINIMIZE THE NUMBER OF ELBOWS REQUIRED FOR ELEVATION CHANGES.
8. REFER TO M300 AND M301 (HEATING, COOLING AND CONTROL DEVICES PLANS) FOR THERMOSTAT LOCATIONS AND OTHER CONTROL DEVICES (TIMES, RH SENSORS, ETC.) LOCATIONS.
9. T/A, R/A AND S/A GRILLES IN CORRIDORS TO BE INSTALLED AS HIGH AS PRACTICAL UNLESS NOTED OTHERWISE. ENSURE GRILLES ALONG SIGHT LINES DOWN CORRIDORS ARE INSTALLED AT A CONSISTENT HEIGHT.
10. ALL T/A DUCTS TO HAVE 25MM ACOUSTIC INSULATION FOR FULL LENGTH.



1 M400 **VENTILATION - WEST (SOUTH)** 1 : 50

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3. SPACE REFERENCES ON MECHANICAL DRAWINGS AS FOLLOWS:
   a. MECHANICAL SPACES: ROOMS SB1028 (MECH) AND SB1031 (WATER).
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   c. PUBLIC SPACES: ALL ROOMS NOT BELONGING TO "MECHANICAL SPACES" OR "SERVICE SPACES".
4. FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE AND CONFIRM ALL FIRE RATED WALLS AND FLOORS WITH ARCHITECT AND GENERAL CONTRACTOR.
5. ALL EXPOSED DUCTING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
6. ALL EXPOSED PIPING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
7. ALL PIPING ROUTED INSIDE BUILDING IN CEILING SPACE TO BE SUSPENDED FROM STRUCTURE USING APPROVED SUPPORT SYSTEM. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
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9. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, VALVES, ETC. TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES, ETC.
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    d. DUCTWORK AND PIPING BRANCHES TO RUN BELOW MAINS WHERE PRACTICAL.
11. COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED ACCESS HATCH/PANELS FOR MECHANICAL EQUIPMENT CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN WALLS. MAKE EFFORT TO LOCATE AND COORDINATE DEVICES REQUIRING ACCESS TO BE IN GROUPED AREAS TO REDUCE THE NUMBER OF ACCESS DOORS REQUIRED. ACCESS DOORS TO BE LOCATED WITH CONSIDERATION ON AND IN ALIGNMENT WITH ARCHITECTURAL DETAILS AND OTHER CEILING/WALL MOUNTED DEVICES TO THE SATISFACTION OF THE ARCHITECT.
12. WHERE AN ISOLATION VALVE OR DRAIN VALVE ARE LOCATED ABOVE DRYWALL CEILING, PROVIDE MIN 300X300 ACCESS HATCH. GROUP ISOLATION / DRAIN VALVES WHERE PRACTICAL TO MINIMIZE THE NUMBER OF ACCESS HATCHES.
13. ALL ISOLATION VALVE HANDLES TO POINT IN DIRECTION OF FLOW WHEN OPEN.
14. THE CONTRACTOR IS TO PROVIDE 300MM CLEARANCE ABOVE THE ELECTRICAL CABLE TRAYS AND TO COORDINATE THE ROUTING OF SYSTEMS WITH THE ELECTRICAL CONTRACTOR. CLEARANCE MAY BE REDUCED TO 150MM WHERE CROSSING CABLE TRAYS OR FOR RUNS LESS THAN 600MM LENGTH PARALLEL TO AND DIRECTLY ABOVE THE CABLE TRAY. CLEARANCE TO BE FROM OUTSIDE OF PIPE/DUCT INSULATION WHERE INSULATION IS REQUIRED.

F	RE-ISSUED FOR TENDER	A.MILLS	B.ZIKUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZIKUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZIKUM	B.ZIKUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZIKUM	B.ZIKUM	2024.02.09
B	ISSUED FOR 70% REVIEW	B.ZIKUM	B.ZIKUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZIKUM	B.ZIKUM	2022.12.14
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	JH	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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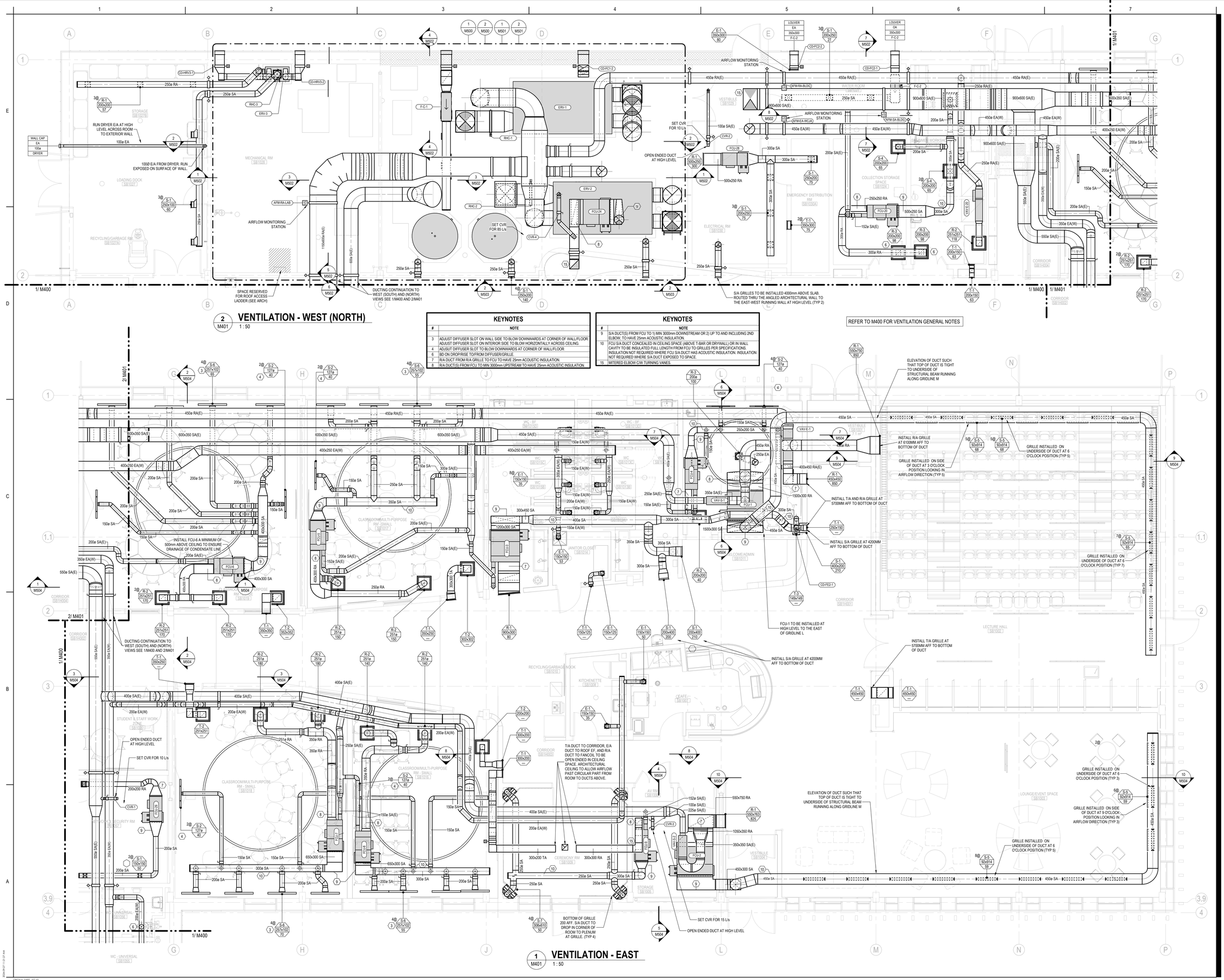
Client/Project
Yukon University
Polaris Project

Title
VENTILATION - WEST (SOUTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M400**

ORIGINAL SHEET - ISO A2



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Issued & Revision		By	App'd	YYYY.MM.DD

File Name: N/A	JH	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chk'd	YYYY.MM.DD

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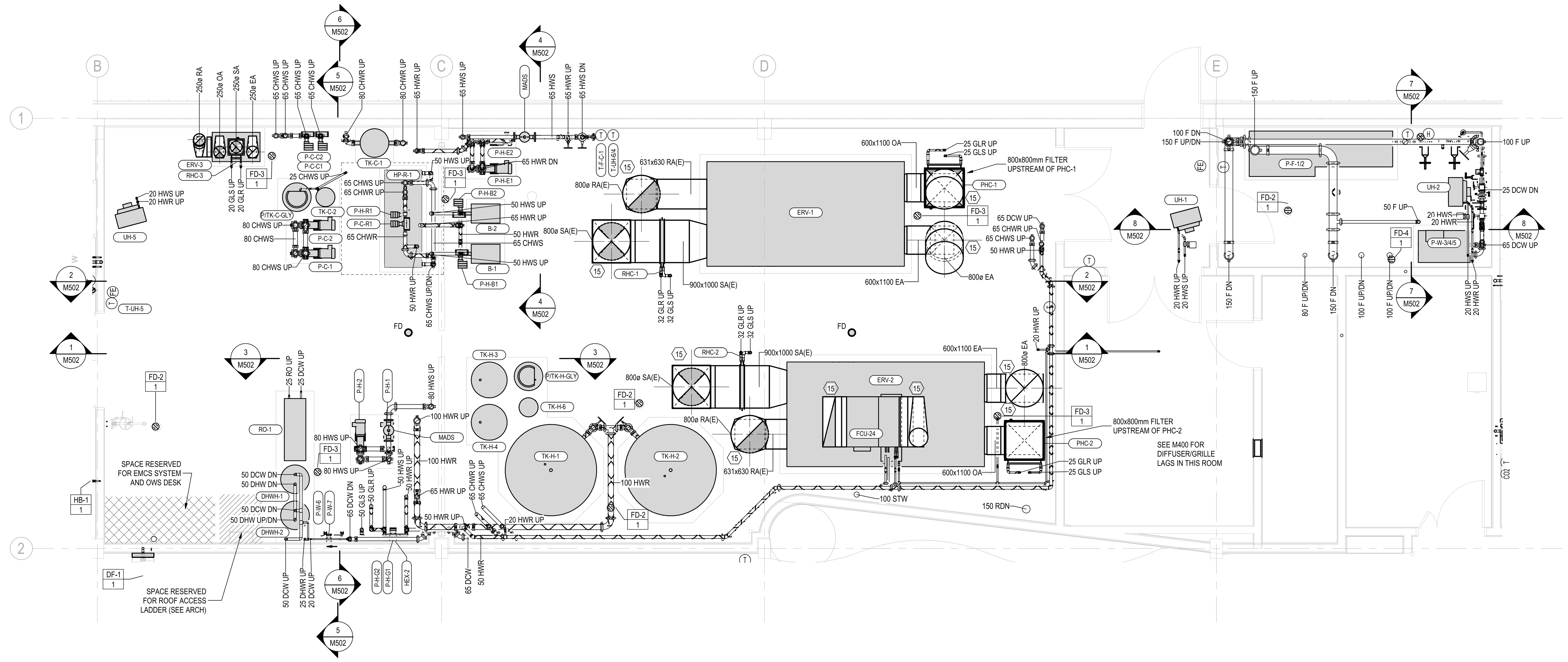
Client/Project
Yukon University
Polaris Project

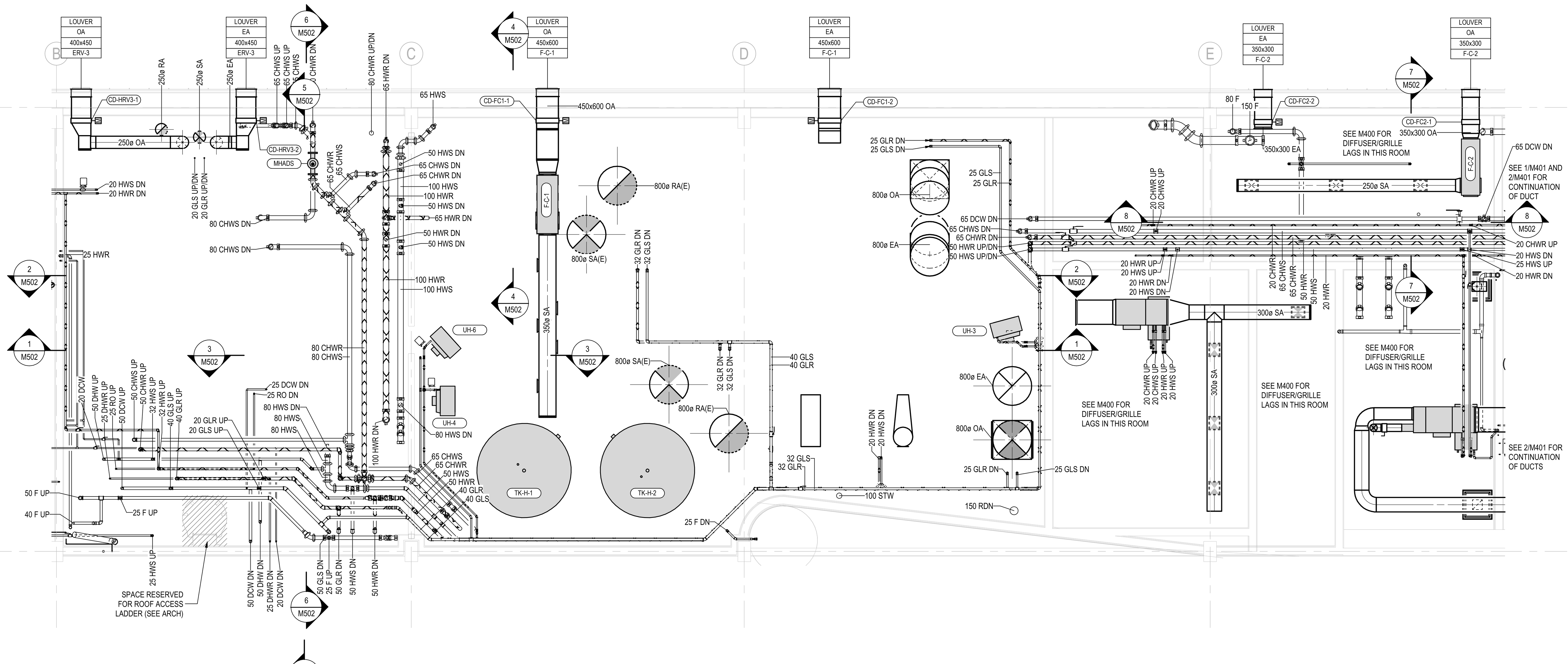
Title
VENTILATION - EAST & WEST (NORTH)

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M401**

ORIGINAL SHEET - ISO A0



1 M500 **MECHANICAL ROOM PLAN - 0 TO 3000 AFF**
1 : 50



2 M500 **MECHANICAL ROOM PLAN - 3000 TO 3750 AFF**
1 : 50

KEYNOTES

#	NOTE
15	MITERED ELBOW C/W TURNING VANES.

GENERAL NOTES - HEATING AND COOLING:

1. REFER TO HYDRONIC PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS.
2. MINIMUM HYDRONIC PIPING SIZE TO BE 20MMØ UNLESS OTHERWISE NOTED.
3. ALL HYDRONIC PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS HYDRONIC PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
4. INSTALL AIR VENTS AT ALL HIGH POINTS IN PIPING. IN MECHANICAL AND SERVICE SPACES USE AUTOMATIC AIR VENTS C/W AN ISOLATION VALVE. IN PUBLIC SPACES INCLUDING ABOVE T-BAR CEILINGS USE MANUAL AIR VENTS.
5. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
6. ALL FCU TO HAVE 2-WAY CONTROL VALVES ON HW AND CHW CONNECTIONS UNLESS NOTED OTHERWISE.
7. COORDINATE THERMOSTAT LOCATIONS WITH ELECTRICAL SWITCHES, FURNITURE, ETC. MOUNT THERMOSTATS AT 1200MM ABOVE FINISHED FLOOR LEVEL.
8. PLAN SHOWS THERMOSTAT LOCATIONS FOR HEATING, COOLING AND VENTILATION EQUIPMENT. PLAN ALSO SHOWS LOCATIONS FOR OTHER CONTROL DEVICE (TIMERS, RH SENSORS, ETC.) THAT MAY NOT BE ASSOCIATED WITH HEATING OR COOLING SYSTEMS.

GENERAL NOTES - VENTILATION:

1. LOCATION OF DIFFUSERS AND GRILLES SHOWN ON DRAWING ARE APPROXIMATE ONLY. COORDINATE WITH ELECTRICAL LIGHTING LAYOUT, SPRINKLER LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
2. ALIGN DIFFUSERS AND GRILLES TO MATCH T-BAR CEILING. SEE ARCHITECTURE REFLECTED CEILING PLANS.
3. WHERE BALANCING DAMPERS ARE REQUIRED, LOCATE AS CLOSE TO MAIN ON BRANCH AS PRACTICAL TO MINIMIZE NOISE TRANSMISSION TO DIFFUSER OR GRILLE.
4. PROVIDE BALANCING DAMPERS AS FOLLOWS:
   A. WHERE INDICATED
   B. ALL SUPPLY DIFFUSERS AND GRILLES SHALL HAVE UPSTREAM BALANCING DAMPERS EXCEPT WHERE DIFFUSER OR GRILLE HAS AN INTEGRAL BALANCING DAMPER
5. DUCT TAKE-OFFS TO BE MADE WITH 45 DEGREE BEVELED TAKE-OFFS UNLESS SPACE REQUIREMENTS DICTATE OTHERWISE.
6. WHERE FANCOILS ARE INSTALLED ABOVE A CEILING (T-BAR OR DRYWALL), LOCATE FANCOILS 300-600MM ABOVE CEILINGS FOR EACH OF ACCESS AND SERVICE. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, COIL VALVES, AND FILTERS TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES.
7. FANCOIL DUCTWORK TO BE INSTALLED AT ELEVATION WITH SPACE IT SERVES TO MINIMIZE THE NUMBER OF ELBOWS REQUIRED FOR ELEVATION CHANGES.
8. REFER TO M300 AND M301 (HEATING, COOLING AND CONTROL DEVICES PLANS) FOR THERMOSTAT LOCATIONS AND OTHER CONTROL DEVICES (TIMES, RH SENSORS, ETC.) LOCATIONS.
9. T/A, R/A AND S/A GRILLES IN CORRIDORS TO BE INSTALLED AS HIGH AS PRACTICAL UNLESS NOTED OTHERWISE. ENSURE GRILLES ALONG SIGHT LINES DOWN CORRIDORS ARE INSTALLED AT A CONSISTENT HEIGHT.
10. ALL T/A DUCTS TO HAVE 25MM ACOUSTIC INSULATION FOR FULL LENGTH.

GENERAL NOTES - FIRE PROTECTION:

1. FIRE PROTECTION PLANS ARE FOR GENERAL PIPE ROUTING REQUIREMENTS AND PRICING ONLY. **PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES**. CONTRACTOR TO RETAIN AN ENGINEER LICENSED IN THE YUKON TO PREPARE CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS.
2. PIPE SIZE INDICATED ARE PRELIMINARY AND TO BE CONFIRMED BY FIRE PROTECTION ENGINEER.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS OF THE FIRE PROTECTION SYSTEMS INCLUDING EQUIPMENT AND MATERIAL FOR REVIEW BY THE ENGINEER AND AUTHORITY HAVING JURISDICTION.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING APPROVALS FROM THE AUTHORITY HAVING JURISDICTION FOR THE COMPLETE FIRE PROTECTION SYSTEM.
5. ALL APPLICABLE CODES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION.
6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE WITH THE LATEST EDITION OF NFPA FIRE CODES INCLUDING NFPA 13 AND SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE MOST CURRENT PUBLISHED NATIONAL BUILDING CODE OF CANADA (NBC), NATIONAL FIRE CODE OF CANADA (NFC), AND THE REQUIREMENTS AND STANDARDS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. SEISMIC RESTRAINTS ARE REQUIRED.
8. ONLY EXPERIENCED FIRE PROTECTION CONTRACTORS WILL BE CONSIDERED FOR THIS WORK. THE FIRE PROTECTION CONTRACTOR MUST BE ABLE TO SHOW EVIDENCE OF HAVING PERFORMED WORK OF SIMILAR TYPE AND SIZE.
9. REFER TO FIRE PROTECTION PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
10. UTILIZE UPRIGHT HEADS IN MECHANICAL AND ELECTRICAL SPACES, ABOVE CEILINGS, AND WHERE HEADS MOUNTED ON EXPOSED PIPING (UNLESS NOTED AS SIDEWALL HEADS).
11. UTILIZE SIDEWALL HEADS IN CORRIDORS AND STUDENT/STAFF WORK AREAS UNLESS INDICATED OR SUPPLEMENTED OTHERWISE.
12. PROVIDE ADDITIONAL HEADS AS REQUIRED IN CEILING SPACE WHERE DUCTING AND PIPING CREATES SUFFICIENT OBSTRUCTIONS TO SPRINKLER HEAD DISCHARGE PATTERN.
13. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
14. PROTECT SPRINKLER HEADS WHERE EXPOSED PIPING IS TO BE PAINTED IN PUBLIC AREAS.
15. PIPING NOT TO BE RUN IN CORRIDORS EXCEPT WHERE EXPLICITLY NOTED TO CROSS CORRIDOR. ALL PIPING TO BE LOCATED ABOVE ROOMS AND SPACE.
16. PROVIDE GUARDS ON HEADS IN MECHANICAL ROOM (SB1028), ELECTRICAL ROOM (SB1030 & 1030A), WATER ROOM (SB1031), LOADING DOCK & STORAGE AREA (SB1027), AND NETWORK & SECURITY ROOM (SB1057)

GENERAL NOTES - PLUMBING:

1. REFER TO DOMESTIC WATER PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
2. INSTALL PLUMBING SERVICES IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND TO MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. PROVIDE ALL PLUMBING VENTS, TRAPS, AND CLEANOUTS IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
4. ALL SAN AND STW PIPING 80Ø AND LESS TO BE SLOPED AT 1:50. ALL SAN AND STW PIPING 100Ø AND GREATER TO BE SLOPED AT 1:100.
5. MINIMUM WATER BRANCH SIZE TO BE 20Ø UNLESS OTHERWISE NOTED.
6. MINIMUM WATER DROP SIZE TO FIXTURE TO BE 15Ø UNLESS OTHERWISE NOTED.
7. MINIMUM SANITARY PIPE SIZE UNDERSLAB IS 50Ø, UNLESS EXPLICITLY NOTES OTHERWISE.
8. ALL PLUMBING PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS PLUMBING PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
9. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING. UNLESS NOTED OTHERWISE, AUTOMATIC TYPE AIR VENTS ARE NOT ACCEPTABLE FOR USE ON PLUMBING SYSTEMS.
10. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
11. PROVIDE FLOOR DRAIN WITH TRAP SEAL PRIMERS WHERE INDICATED ON DRAWINGS. FOR ALL OTHER FLOOR DRAINS PROVIDE A TRAP GUARD.
12. ALL DOMESTIC WATER PIPING (INCLUDE REVERSE OSMOSIS) TO BE INSULATED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
13. PROVIDE SERVICE ISOLATION VALVES ON ALL BRANCH LINES AT MAIN TAKE-OFFS. ALL FIXTURES TO BE COMPLETE WITH SERVICE FIXTURE STOPS.
14. EACH WET AREA SHALL BE PROVIDED WITH WATER HAMMER ARRESTORS ON THE COLD AND HOT WATER CONNECTION LINES TO ONE OF THE PLUMBING FIXTURES SUCH AS LAVATORIES OR SINKS. THE WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE PURPOSES.
15. INVERTS ARE PER FLOOR LEVEL AT INVERT LOCATION. FOR REFERENCE, FLOOR LEVEL WEST OF GRIDLINE H IS 475MM ABOVE FLOOR LEVEL ON EAST SIDE OF GRIDLINE H.
16. WHERE PASSING BELOW THICKENED STRUCTURAL SLAB LOCATIONS (SEE S101 FOR LOCATIONS AND THICKENED SLAB DEPTHS), PIPING INVERTS BELOW BOTTOM OF THICKENING TO BE MIN 100MM FOR 80Ø PIPE AND MIN PIPE DIAMETER PLUS 50MM FOR 100Ø AND LARGER PIPES.

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    b. INSTALL DUCTWORK MAINS AS HIGH AS PRACTICAL.
    c. INSTALL PIPING MAINS IMMEDIATELY BELOW DUCT MAINS. PIPING MAINS MAY BE INSTALLED ALONGSIDE DUCTWORK TO CONSERVE CEILING SPACE WHERE APPLICABLE.
    d. DUCTWORK AND PIPING BRANCHES TO RUN BELOW MAINS WHERE PRACTICAL.
11. COORDINATE WITH GENERAL CONTRACTOR ALL REQUIRED ACCESS HATCH/PANELS FOR MECHANICAL EQUIPMENT CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN WALLS. MAKE EFFORT TO LOCATE AND COORDINATE DEVICES REQUIRING ACCESS TO BE IN GROUPED AREAS TO REDUCE THE NUMBER OF ACCESS DOORS REQUIRED. ACCESS DOORS TO BE LOCATED WITH CONSIDERATION ON AND IN ALIGNMENT WITH ARCHITECTURAL DETAILS AND OTHER CEILING/WALL MOUNTED DEVICES TO THE SATISFACTION OF THE ARCHITECT.
12. WHERE AN ISOLATION VALVE OR DRAIN VALVE ARE LOCATED ABOVE DRYWALL CEILING, PROVIDE MIN 300X300 ACCESS HATCH. GROUP ISOLATION / DRAIN VALVES WHERE PRACTICAL TO MINIMIZE THE NUMBER OF ACCESS HATCHES.
13. ALL ISOLATION VALVE HANDLES TO POINT IN DIRECTION OF FLOW WHEN OPEN.
14. THE CONTRACTOR IS TO PROVIDE 300MM CLEARANCE ABOVE THE ELECTRICAL CABLE TRAYS AND TO COORDINATE THE ROUTING OF SYSTEMS WITH THE ELECTRICAL CONTRACTOR. CLEARANCE MAY BE REDUCED TO 150MM WHERE CROSSING CABLE TRAYS OR FOR RUNS LESS THAN 600MM LENGTH PARALLEL TO AND DIRECTLY ABOVE THE CABLE TRAY. CLEARANCE TO BE FROM OUTSIDE OF PIPE/DUCT INSULATION WHERE INSULATION IS REQUIRED.

		By	Appd	YYYY.MM.DD
F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.16

Issued & Revision

File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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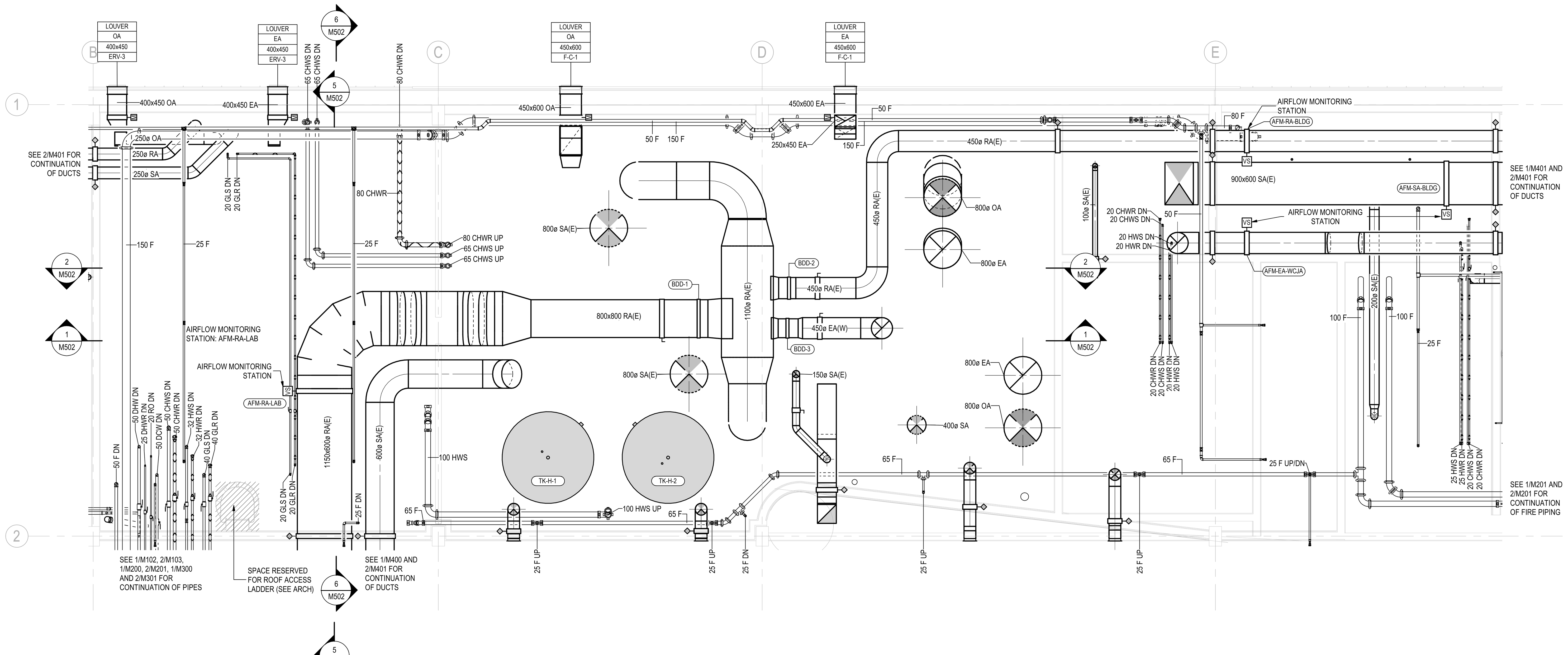
Client/Project
Yukon University
Polaris Project

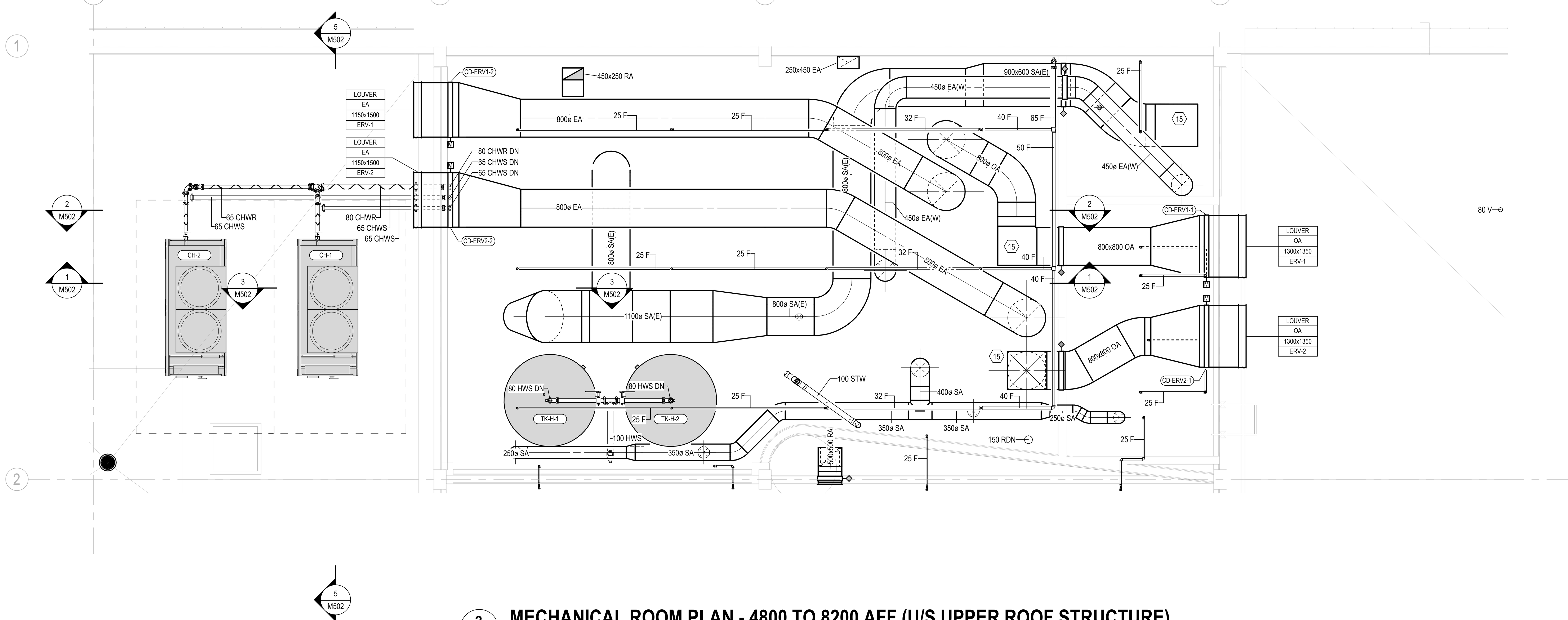
Title
MECHANICAL ROOM PLANS - 0 TO 3750 AFF

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M500**

2024-09-27 11:21:50 AM
ORIGINAL SHEET - ISO A0



1 M501 **MECHANICAL ROOM PLAN - 3750 TO 4800 AFF (U/S LOWER ROOF STRUCTURE)**
1 : 50



2 M501 **MECHANICAL ROOM PLAN - 4800 TO 8200 AFF (U/S UPPER ROOF STRUCTURE)**
1 : 50

GENERAL NOTES - HEATING AND COOLING:

1. REFER TO HYDRONIC PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS.
2. MINIMUM HYDRONIC PIPING SIZE TO BE 20MMØ UNLESS OTHERWISE NOTED.
3. ALL HYDRONIC PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS HYDRONIC PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
4. INSTALL AIR VENTS AT ALL HIGH POINTS IN PIPING. IN MECHANICAL AND SERVICE SPACES USE AUTOMATIC AIR VENTS C/W AN ISOLATION VALVE. IN PUBLIC SPACES INCLUDING ABOVE T-BAR CEILINGS USE MANUAL AIR VENTS.
5. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
6. ALL FCU TO HAVE 2-WAY CONTROL VALVES ON HW AND CHW CONNECTIONS UNLESS NOTED OTHERWISE.
7. COORDINATE THERMOSTAT LOCATIONS WITH ELECTRICAL SWITCHES, FURNITURE, ETC. MOUNT THERMOSTATS AT 1200MM ABOVE FINISHED FLOOR LEVEL.
8. PLAN SHOWS THERMOSTAT LOCATIONS FOR HEATING, COOLING AND VENTILATION EQUIPMENT. PLAN ALSO SHOWS LOCATIONS FOR OTHER CONTROL DEVICE (TIMERS, RH SENSORS, ETC.) THAT MAY NOT BE ASSOCIATED WITH HEATING OR COOLING SYSTEMS.

GENERAL NOTES - VENTILATION:

1. LOCATION OF DIFFUSERS AND GRILLES SHOWN ON DRAWING ARE APPROXIMATE ONLY. COORDINATE WITH ELECTRICAL LIGHTING LAYOUT, SPRINKLER LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
2. ALIGN DIFFUSERS AND GRILLES TO MATCH T-BAR CEILING. SEE ARCHITECTURE REFLECTED CEILING PLANS.
3. WHERE BALANCING DAMPERS ARE REQUIRED, LOCATE AS CLOSE TO MAIN ON BRANCH AS PRACTICAL TO MINIMIZE NOISE TRANSMISSION TO DIFFUSER OR GRILLE.
4. PROVIDE BALANCING DAMPERS AS FOLLOWS:
   A. WHERE INDICATED
   B. ALL SUPPLY DIFFUSERS AND GRILLES SHALL HAVE UPSTREAM BALANCING DAMPERS EXCEPT WHERE DIFFUSER OR GRILLE HAS AN INTEGRAL BALANCING DAMPER
5. DUCT TAKE-OFFS TO BE MADE WITH 45 DEGREE BEVELED TAKE-OFFS UNLESS SPACE REQUIREMENTS DICTATE OTHERWISE.
6. WHERE FANCOILS ARE INSTALLED ABOVE A CEILING (T-BAR OR DRYWALL), LOCATE FANCOILS 300-600MM ABOVE CEILINGS FOR EACH OF ACCESS AND SERVICE. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, COIL VALVES, AND FILTERS TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES.
7. FANCOIL DUCTWORK TO BE INSTALLED AT ELEVATION WITH SPACE IT SERVES TO MINIMIZE THE NUMBER OF ELBOWS REQUIRED FOR ELEVATION CHANGES.
8. REFER TO M300 AND M301 (HEATING, COOLING AND CONTROL DEVICES PLANS) FOR THERMOSTAT LOCATIONS AND OTHER CONTROL DEVICES (TIMES, RH SENSORS, ETC.) LOCATIONS.
9. T/A, R/A AND S/A GRILLES IN CORRIDORS TO BE INSTALLED AS HIGH AS PRACTICAL UNLESS NOTED OTHERWISE. ENSURE GRILLES ALONG SIGHT LINES DOWN CORRIDORS ARE INSTALLED AT A CONSISTENT HEIGHT.
10. ALL T/A DUCTS TO HAVE 25MM ACOUSTIC INSULATION FOR FULL LENGTH.

GENERAL NOTES - FIRE PROTECTION:

1. FIRE PROTECTION PLANS ARE FOR GENERAL PIPE ROUTING REQUIREMENTS AND PRICING ONLY. **PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES**. CONTRACTOR TO RETAIN AN ENGINEER LICENSED IN THE YUKON TO PREPARE CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS.
2. PIPE SIZE INDICATED ARE PRELIMINARY AND TO BE CONFIRMED BY FIRE PROTECTION ENGINEER.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS OF THE FIRE PROTECTION SYSTEMS INCLUDING EQUIPMENT AND MATERIAL FOR REVIEW BY THE ENGINEER AND AUTHORITY HAVING JURISDICTION.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING APPROVALS FROM THE AUTHORITY HAVING JURISDICTION FOR THE COMPLETE FIRE PROTECTION SYSTEM.
5. ALL APPLICABLE CODES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION.
6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE WITH THE LATEST EDITION OF NFPA FIRE CODES INCLUDING NFPA 13 AND SHALL CONFORM TO THE APPROPRIATE STANDARDS LISTED IN THE MOST CURRENT PUBLISHED NATIONAL BUILDING CODE OF CANADA (NBC), NATIONAL FIRE CODE OF CANADA (NFC), AND THE REQUIREMENTS AND STANDARDS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. SEISMIC RESTRAINTS ARE REQUIRED.
8. ONLY EXPERIENCED FIRE PROTECTION CONTRACTORS WILL BE CONSIDERED FOR THIS WORK. THE FIRE PROTECTION CONTRACTOR MUST BE ABLE TO SHOW EVIDENCE OF HAVING PERFORMED WORK OF SIMILAR TYPE AND SIZE.
9. REFER TO FIRE PROTECTION PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
10. UTILIZE UPRIGHT HEADS IN MECHANICAL AND ELECTRICAL SPACES, ABOVE CEILINGS, AND WHERE HEADS MOUNTED ON EXPOSED PIPING (UNLESS NOTED AS SIDEWALL HEADS).
11. UTILIZE SIDEWALL HEADS IN CORRIDORS AND STUDENT/STAFF WORK AREAS UNLESS INDICATED OR SUPPLEMENTED OTHERWISE.
12. PROVIDE ADDITIONAL HEADS AS REQUIRED IN CEILING SPACE WHERE DUCTING AND PIPING CREATES SUFFICIENT OBSTRUCTIONS TO SPRINKLER HEAD DISCHARGE PATTERN.
13. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
14. PROTECT SPRINKLER HEADS WHERE EXPOSED PIPING IS TO BE PAINTED IN PUBLIC AREAS.
15. PIPING NOT TO BE RUN IN CORRIDORS EXCEPT WHERE EXPLICITLY NOTED TO CROSS CORRIDOR. ALL PIPING TO BE LOCATED ABOVE ROOMS AND SPACE.
16. PROVIDE GUARDS ON HEADS IN MECHANICAL ROOM (SB1028), ELECTRICAL ROOM (SB1030 & 1030A), WATER ROOM (SB1031), LOADING DOCK & STORAGE AREA (SB1027), AND NETWORK & SECURITY ROOM (SB1057)

GENERAL NOTES - PLUMBING:

1. REFER TO DOMESTIC WATER PIPING SCHEMATICS FOR ADDITIONAL CONFIGURATION DETAILS
2. INSTALL PLUMBING SERVICES IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND TO MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
3. PROVIDE ALL PLUMBING VENTS, TRAPS, AND CLEANOUTS IN ACCORDANCE WITH ALL APPLICABLE CODE AND STANDARDS AND MEET ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
4. ALL SAN AND STW PIPING 80Ø AND LESS TO BE SLOPED AT 1:50. ALL SAN AND STW PIPING 100Ø AND GREATER TO BE SLOPED AT 1:100.
5. MINIMUM WATER BRANCH SIZE TO BE 20Ø UNLESS OTHERWISE NOTED.
6. MINIMUM WATER DROP SIZE TO FIXTURE TO BE 15Ø UNLESS OTHERWISE NOTED.
7. MINIMUM SANITARY PIPE SIZE UNDERSLAB IS 50Ø, UNLESS EXPLICITLY NOTES OTHERWISE.
8. ALL PLUMBING PIPING SHALL BE CONCEALED INSIDE CEILING SPACES AND WALL CAVITIES. IN PUBLIC AREAS PLUMBING PIPING MAY BE EXPOSED ONLY WHERE EXPLICITLY SHOW AT KEY CORRIDOR CROSSING LOCATIONS. WITHIN SERVICE SPACES PIPING TO BE EXPOSED.
9. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING. UNLESS NOTED OTHERWISE, AUTOMATIC TYPE AIR VENTS ARE NOT ACCEPTABLE FOR USE ON PLUMBING SYSTEMS.
10. PROVIDE DRAIN POINTS ABOVE CEILINGS WHERE LOCAL LOW SPOTS OCCUR.
11. PROVIDE FLOOR DRAIN WITH TRAP SEAL PRIMERS WHERE INDICATED ON DRAWINGS. FOR ALL OTHER FLOOR DRAINS PROVIDE A TRAP GUARD.
12. ALL DOMESTIC WATER PIPING (INCLUDE REVERSE OSMOSIS) TO BE INSULATED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
13. PROVIDE SERVICE ISOLATION VALVES ON ALL BRANCH LINES AT MAIN TAKE-OFFS. ALL FIXTURES TO BE COMPLETE WITH SERVICE FIXTURE STOPS.
14. EACH WET AREA SHALL BE PROVIDED WITH WATER HAMMER ARRESTORS ON THE COLD AND HOT WATER CONNECTION LINES TO ONE OF THE PLUMBING FIXTURES SUCH AS LAVATORIES OR SINKS. THE WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE PURPOSES.
15. INVERTS ARE PER FLOOR LEVEL AT INVERT LOCATION. FOR REFERENCE, FLOOR LEVEL WEST OF GRIDLINE H IS 475MM ABOVE FLOOR LEVEL ON EAST SIDE OF GRIDLINE H.
16. WHERE PASSING BELOW THICKENED STRUCTURAL SLAB LOCATIONS (SEE S101 FOR LOCATIONS AND THICKENED SLAB DEPTHS), PIPING INVERTS BELOW BOTTOM OF THICKENING TO BE MIN 100MM FOR 80Ø PIPE AND MIN PIPE DIAMETER PLUS 50MM FOR 100Ø AND LARGER PIPES.

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Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
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Notes

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   b. SERVICE SPACES: ROOMS SB1029 (VESTIBULE), SB1030 (ELECTRICAL), SB1030A (EMERGENCY DISTRIBUTION), SB1027 (LOADING DOCK, STORAGE, RECYCLING/GARBAGE), SB1057 (NETWORK & SECURITY), SB1043 (JANITOR), SB1014 (JANITOR), AND SB1005 (STORAGE).
   c. PUBLIC SPACES: ALL ROOMS NOT BELONGING TO "MECHANICAL SPACES" OR "SERVICE SPACES".
4. FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE AND CONFIRM ALL FIRE RATED WALLS AND FLOORS WITH ARCHITECT AND GENERAL CONTRACTOR.
5. ALL EXPOSED DUCTING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
6. ALL EXPOSED PIPING IN PUBLIC AREAS TO BE PAINTED BLACK. COORDINATE EXACT COLOR WITH ARCHITECT.
7. ALL PIPING ROUTED INSIDE BUILDING IN CEILING SPACE TO BE SUSPENDED FROM STRUCTURE USING APPROVED SUPPORT SYSTEM. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
8. VARIATIONS FROM SPECIFIED PRODUCTS AND ASSOCIATED WORK REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL COMPENSATION WILL NOT BE CONSIDERED BECAUSE OF DIFFERENCES IN INTERPRETATION OF TECHNICAL PROVISIONS.
9. ENSURE GOOD ACCESS IS MAINTAIN TO FAN-COILS, VALVES, ETC. TO ALLOW FOR REGULAR SERVICE WORK INCLUDING FILTER CHANGES, ETC.
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   a. INSTALL DUCTWORK AND PIPING MAINS ACROSS CORRIDORS AS INDICATED IN SECTIONS.
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File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	BZ	BZ	RM	2024.03.11

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
MECHANICAL ROOM PLANS - 3750 to 8200 AFF

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M501**

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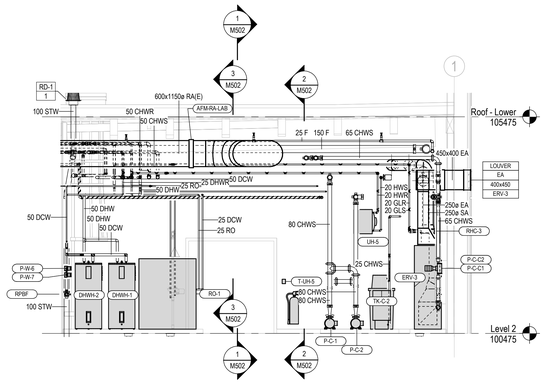
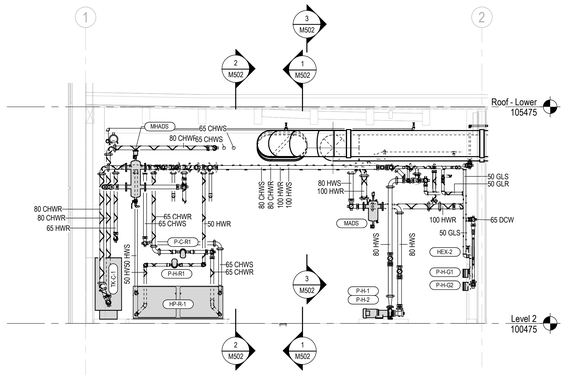


5 M502 **MECHANICAL ROOM - WEST END TO GRID B1**
1 : 50



6 M502 **MECHANICAL ROOM - WEST END TO GRID C**
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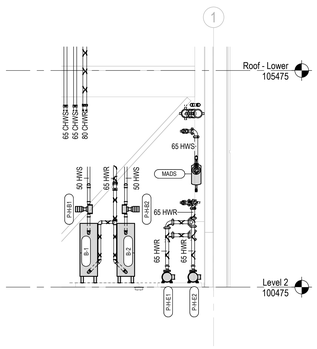

4 M502 **MECHANICAL ROOM - CENTER TO GRID C**
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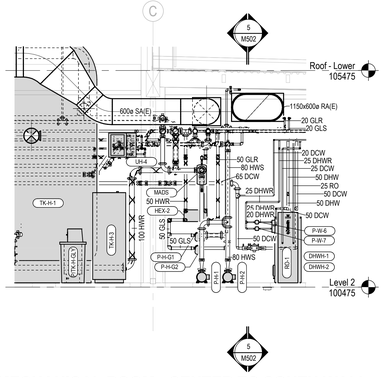
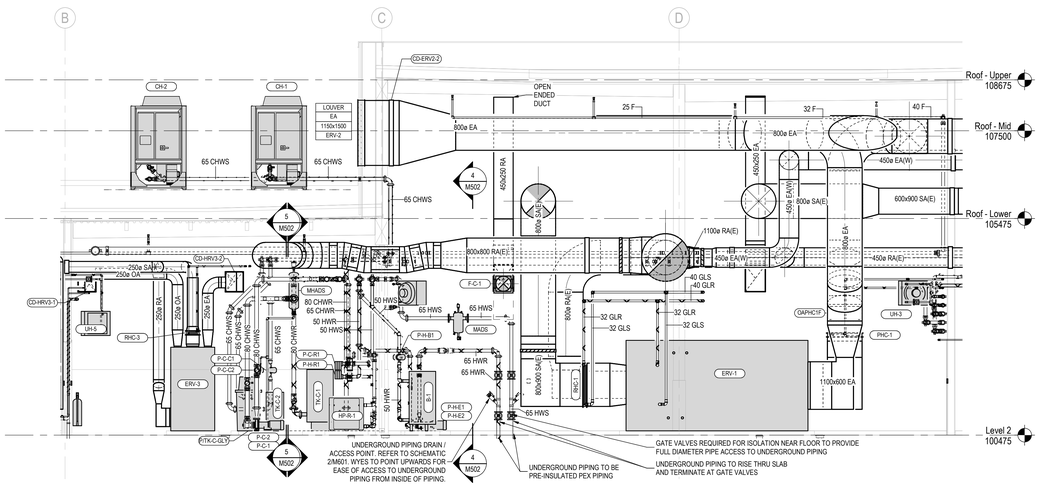
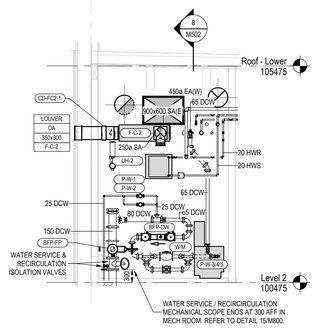


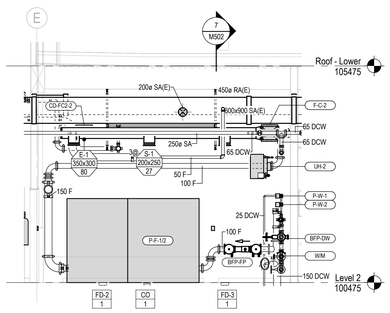
3 M502 **MECHANICAL ROOM - CENTER TO SOUTH WALL**
1 : 50



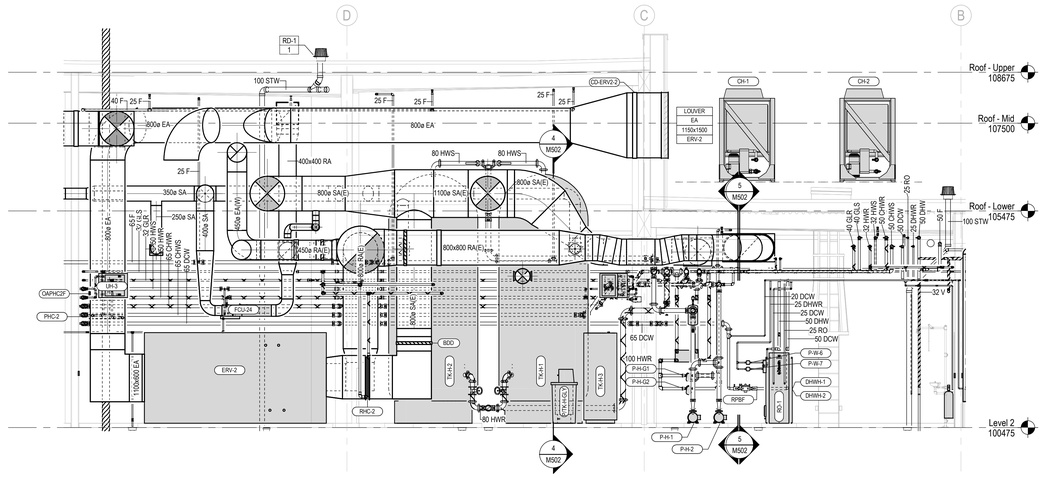
1 M502 **MECHANICAL ROOM - NORTH SIDE FROM CENTERLINE**
1 : 50



7 M502 **WATER ROOM - EAST SIDE**
1 : 50



8 M502 **WATER ROOM - NORTH SIDE**
1 : 50



2 M502 **MECHANICAL ROOM - SOUTH SIDE FROM CENTERLINE**
1 : 50

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F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRIJM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRIJM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRIJM	B.ZRIJM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRIJM	B.ZRIJM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRIJM	B.ZRIJM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRIJM	B.ZRIJM	2022.12.14

Issued & Revision

File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
MECHANICAL ROOM SECTIONS

Project No. 144214760
Scale As indicated
Revision F
Drawing No. **M502**

2024-09-27 1:02:31 AM
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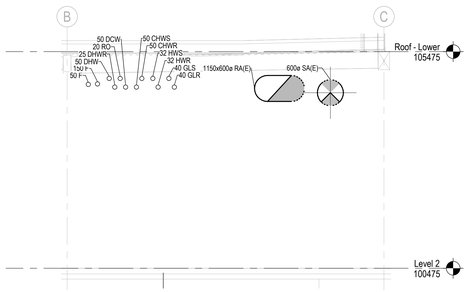

1 M503 **NW CORRIDOR CROSSING - GRID B TO GRID C**
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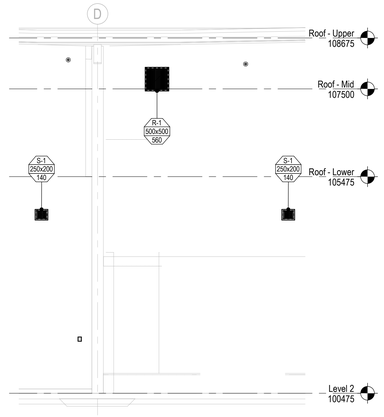

2 M503 **NW CORRIDOR CROSSING - GRID D**
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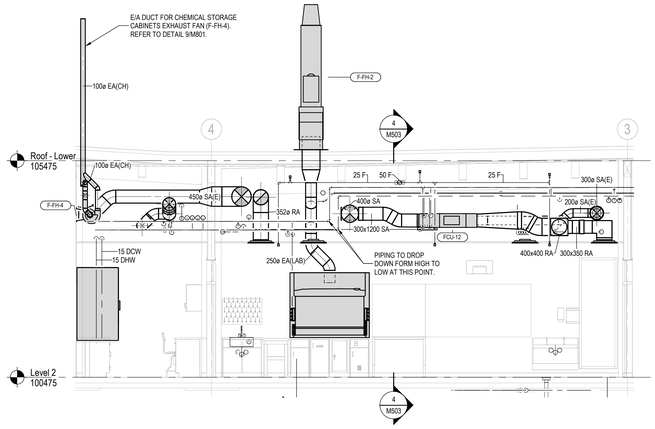

3 M503 **W WET LAB & PREP - GRID 3 TO GRID 5**
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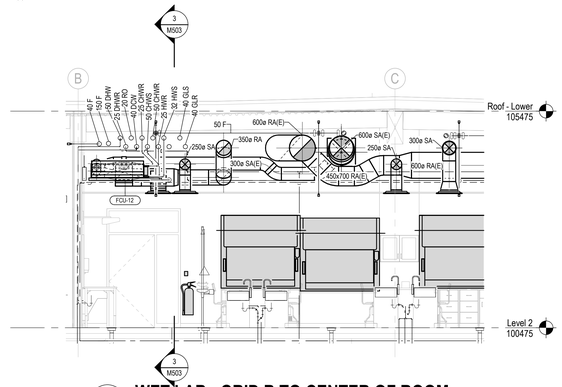

4 M503 **WET LAB - GRID B TO CENTER OF ROOM**
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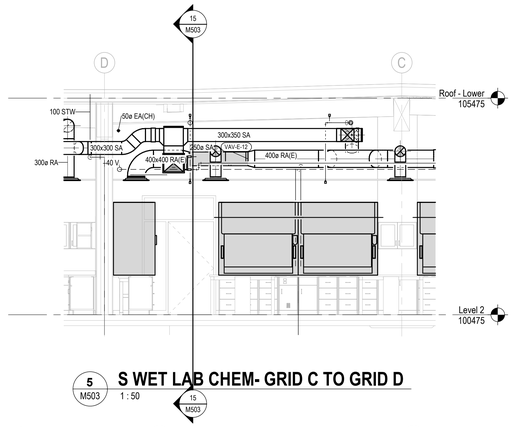

5 M503 **S WET LAB CHEM- GRID C TO GRID D**
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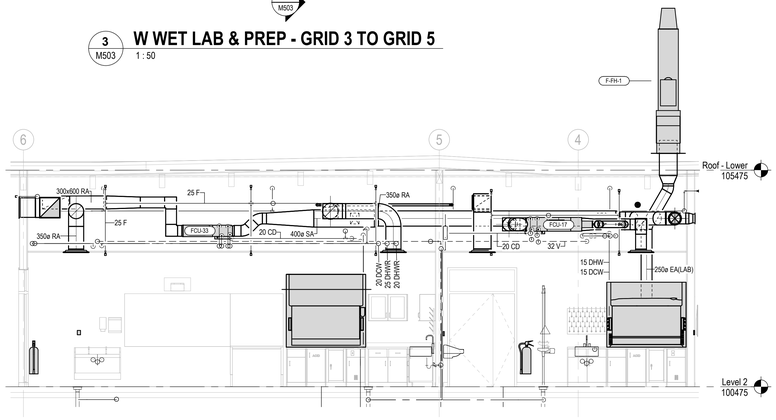

6 M503 **W WET LAB BIO & WET PREP - GRID 4 TO GRID 6**
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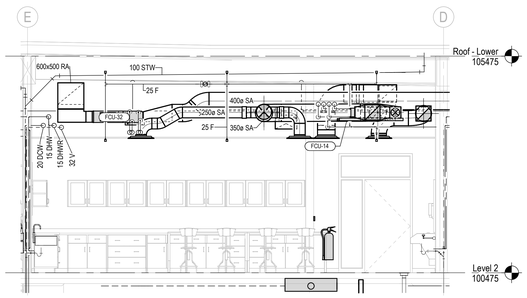

7 M503 **S DRY LAB - GRID D TO GRID E**
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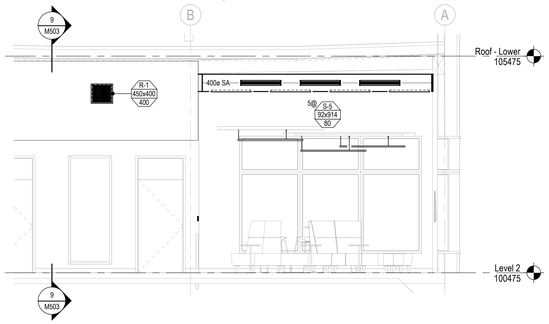

8 M503 **SW CORRIDOR - GRID A TO GRID B**
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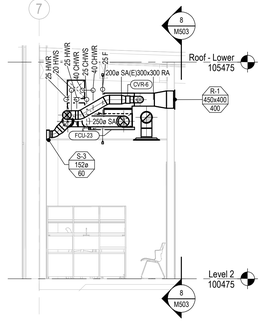

9 M503 **SW OFFICE - SB1035**
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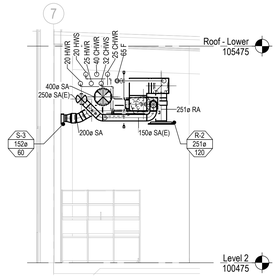

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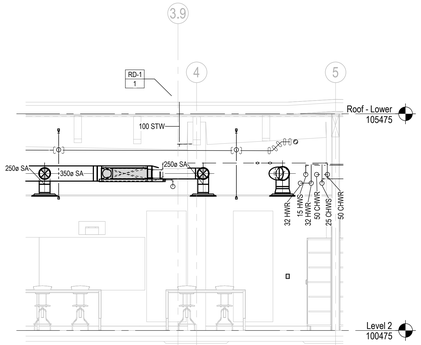

11 M503 **N DRY LAB**
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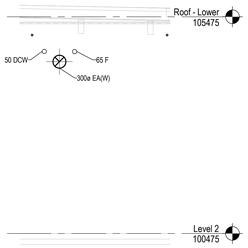
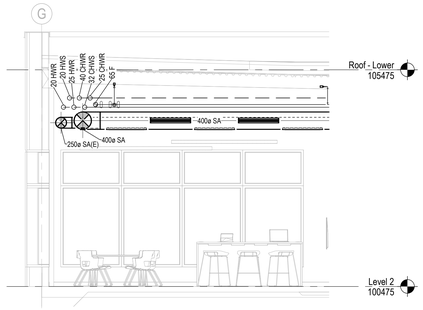
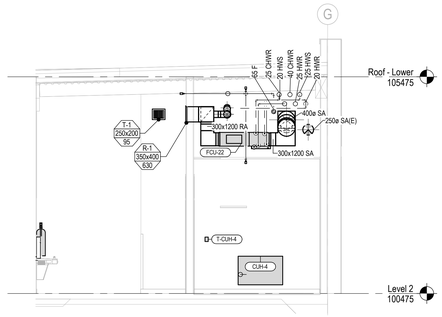


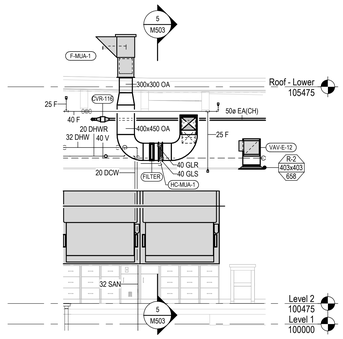
12 M503 **SE CORRIDOR - WC CROSSING**
1 : 50



13 M503 **SE STUDENT & STAFF WORK ZONE**
1 : 50



14 M503 **SE VESTIBULE - GRID F TO GRID G**
1 : 50



15 M503 **FUME HOOD MUA SECTION**
1 : 50

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Yukon University

Notes

			B.ZRJUM
F	RE-ISSUED FOR TENDER	A.MILLS	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRJUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRJUM	B.ZRJUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRJUM	B.ZRJUM	2024.02.09

Issued & Revision

		By		Appd.	YYYY.MM.DD
File Name: N/A	BZ	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

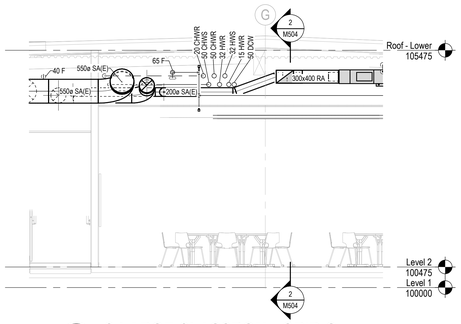
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
BUILDING SECTIONS - WEST (SOUTH)

Project No. 144214760
Scale 1 : 50
Revision F
Drawing No. **M503**

ORIGINAL SHEET - ISO A0



1 M504 **S LARGE CLASSROM - GRID G**
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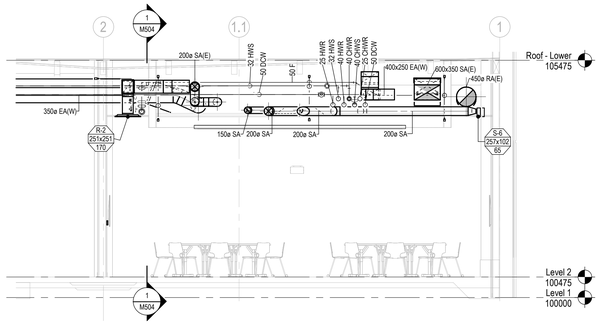
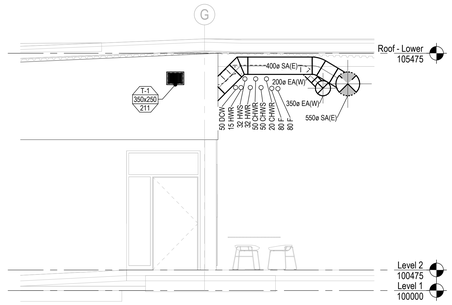


2 M504 **N LARGE CLASSROOM AND CORRIDOR CROSSING - GRID 1 -GRID 2**
1 : 50



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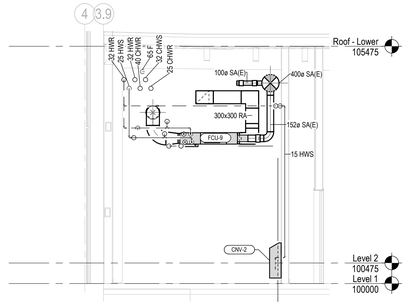
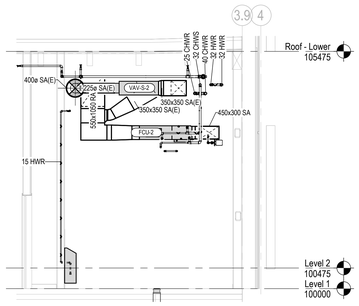
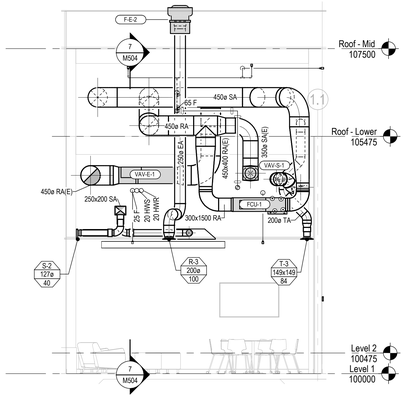


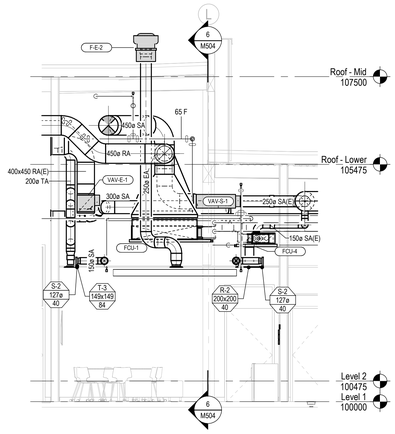
4 M504 **SE STORAGE ROOM - WEST SECTION**
1 : 50



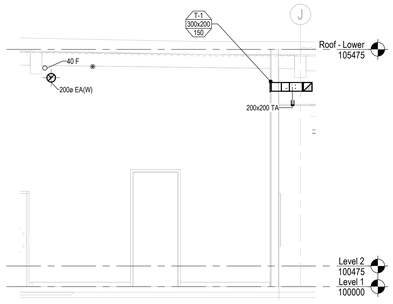
5 M504 **SE STORAGE ROOM - EAST SECTION**
1 : 50



6 M504 **KNOWLEDGE SHARING ROOM - GRID 1 - GRID 2**
1 : 50



7 M504 **KNOWLEDGE SHARING ROOM SECTION - GRID L**
1 : 50



8 M504 **S CORRIDOR CROSSING - GRID J**
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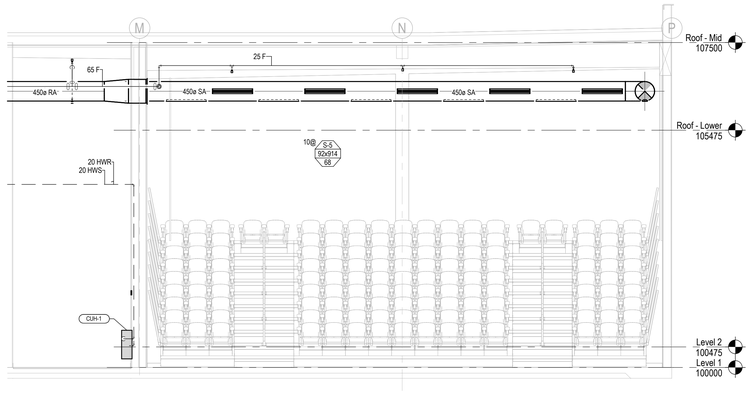

9 M504 **NE LECTURE HALL - GRID M TO GRID P**
1 : 50

10 M504 **SE LOUNGE/EVENT SPACE - GRID L - GRID P**
1 : 50

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Client/Project Logo

Yukon University

Notes

			B.ZRUM	
F	RE-ISSUED FOR TENDER	A.MILLS		2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
Issued & Revision		By	App'd	YYYY.MM.DD
File Name: N/A		BZ	BZ	RM
		Dwn.	Dsgn.	Chk'd. YYYY.MM.DD

Permit/Seal

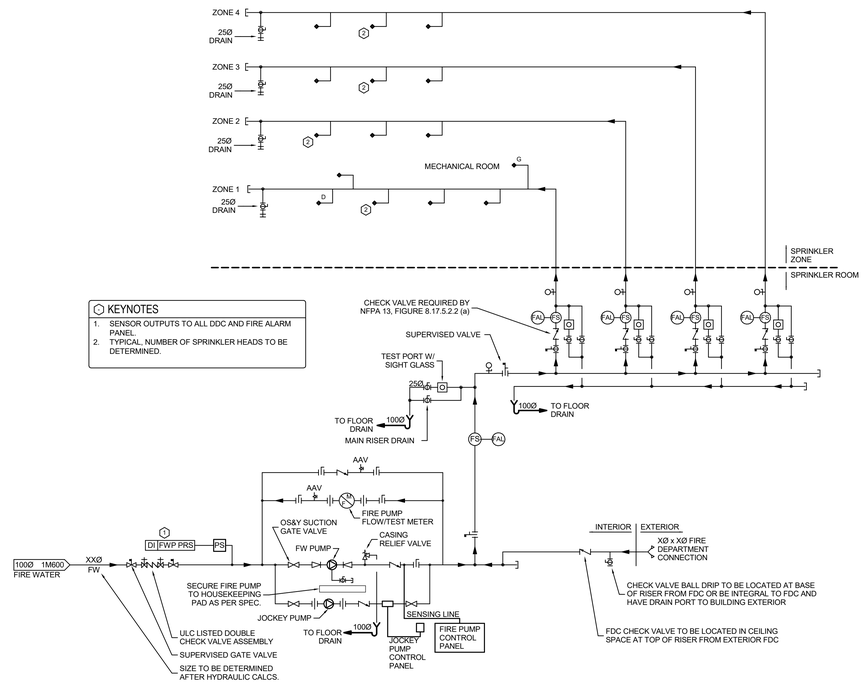
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
BUILDING SECTIONS - EAST & WEST (NORTH)

Project No. 144214760
Scale 1 : 50
Revision F
Drawing No. **M504**

2024-09-27 11:22:57 AM
ORIGINAL SHEET - ISO A0



ZONE 1:
- SB1027B STORAGE
- SB1027 LOADING DOCK
- SB1027A RECYCLING/GARBAGE RM.
- SB1028 MECHANICAL RM
- SB1029 VESTIBULE
- SB1030 ELECTRICAL RM
- SB1030A EMERGENCY DISTRIBUTION
- SB1031 WATER ROOM

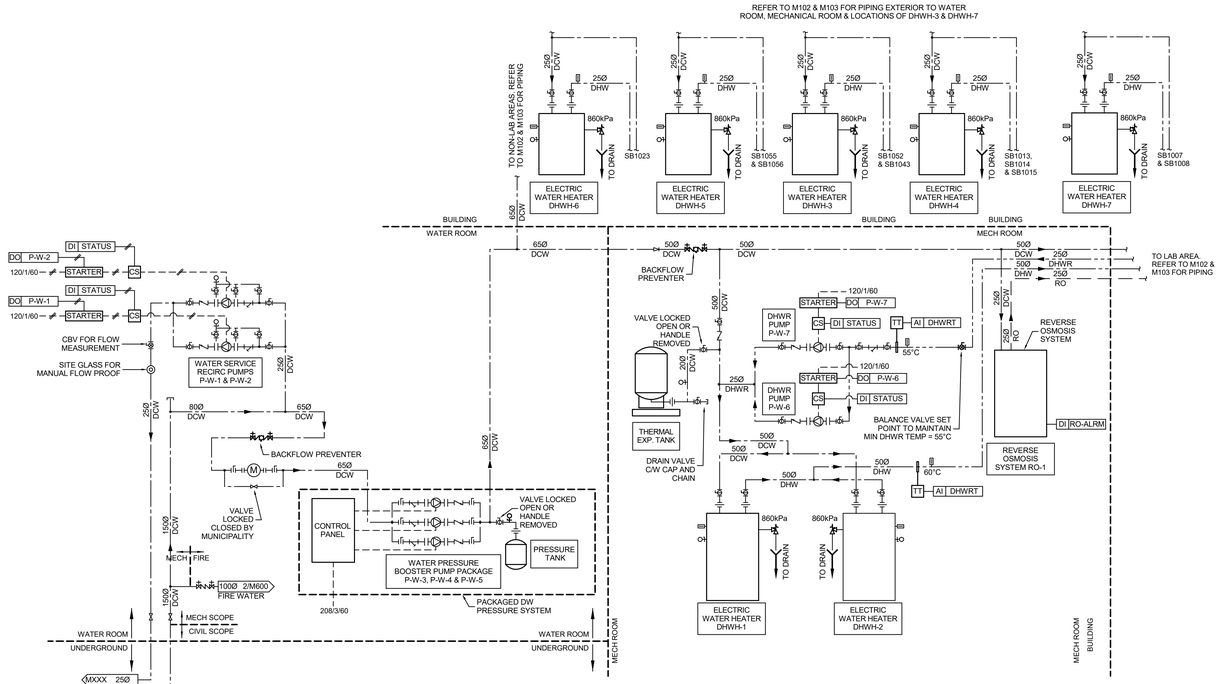
ZONE 2:
- SB1026 WET LAB CHEMISTRY
- SB1032 WET PREPARATION ROOM
- SB1025 RESEARCH & MULTI-USE LAB
- SB1022 DRY LAB
- SB1054 DRY PREPARATION ROOM
- SB1034 WET LAB BIOLOGY
- SB1039 INSTRUMENTS LAB
- SB1041 DRY LAB

ZONE 3:
- REMAINDER OF SPACES WEST OF GRID G

ZONE 4:
- REMAINDER OF SPACES EAST OF GRID G

KEYNOTES
1. SENSOR OUTPUTS TO ALL DDC AND FIRE ALARM PANEL.
2. TYPICAL, NUMBER OF SPRINKLER HEADS TO BE DETERMINED.

2 FIRE PROTECTION SCHEMATIC
M600 NTS



1 DOMESTIC WATER SCHEMATIC
M600 NTS

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Notes

Issued & Revision				
F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.14
		By	Appd.	YYYY.MM.DD

File Name: N/A	DS	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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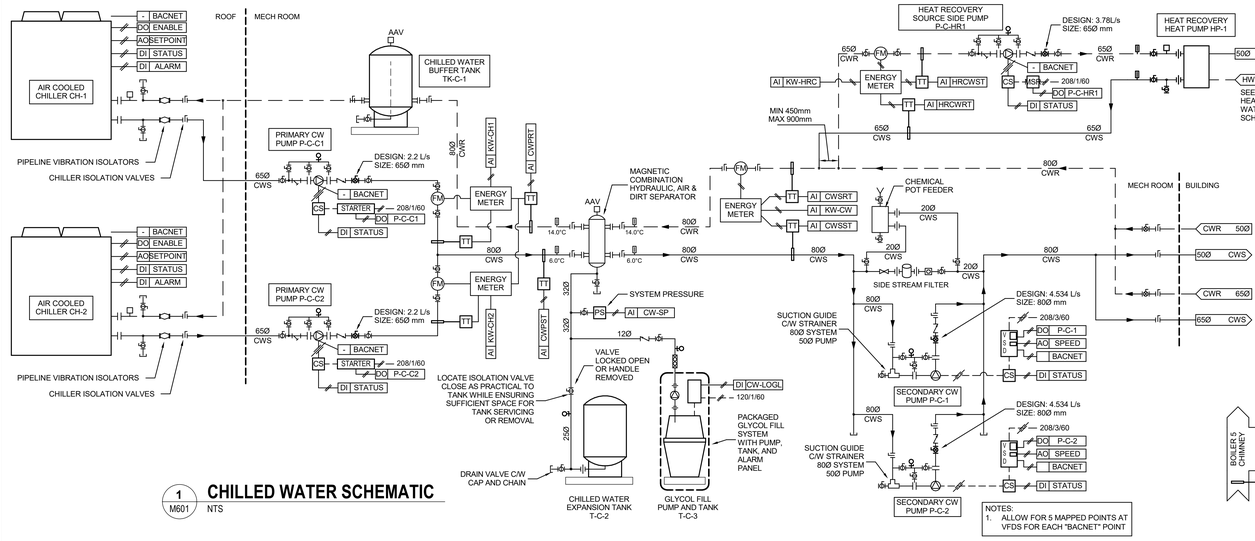
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

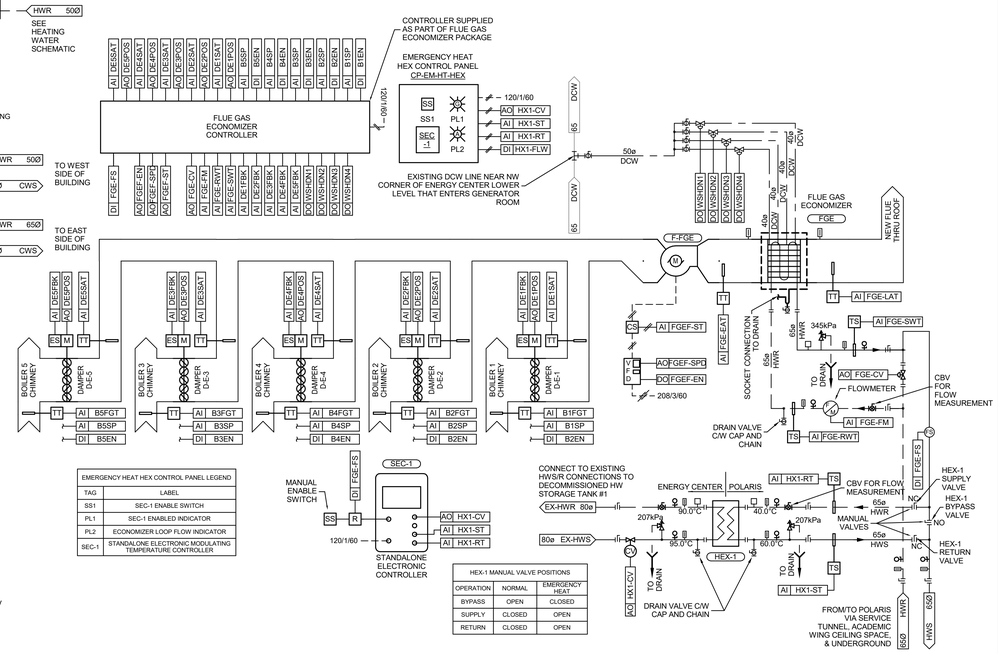
Title
DOMESTIC WATER & FIRE PROTECTION SCHEMATICS

Project No. 144214760
Scale NTS
Revision F
Drawing No. **M600**

ORIGINAL SHEET - ISO A0



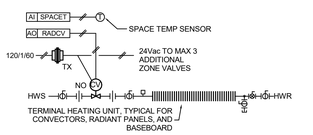
1 CHILLED WATER SCHEMATIC
M601 NTS



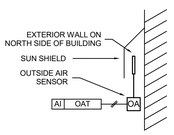
EMERGENCY HEAT HEX CONTROL PANEL LEGEND	
TAG	LABEL
SS1	SEC-1 ENABLE SWITCH
PL1	SEC-1 ENABLED INDICATOR
PL2	ECONOMIZER LOOP FLOW INDICATOR
SEC-1	STANDALONE ELECTRONIC MODULATING TEMPERATURE CONTROLLER

HEX-1 MANUAL VALVE POSITIONS		
OPERATION	NORMAL	EMERGENCY HEAT
BYPASS	OPEN	CLOSED
SUPPLY	CLOSED	OPEN
RETURN	CLOSED	OPEN

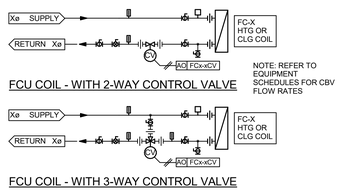
3 FLUE GAS ECONOMIZER SCHEMATIC
M601 NTS



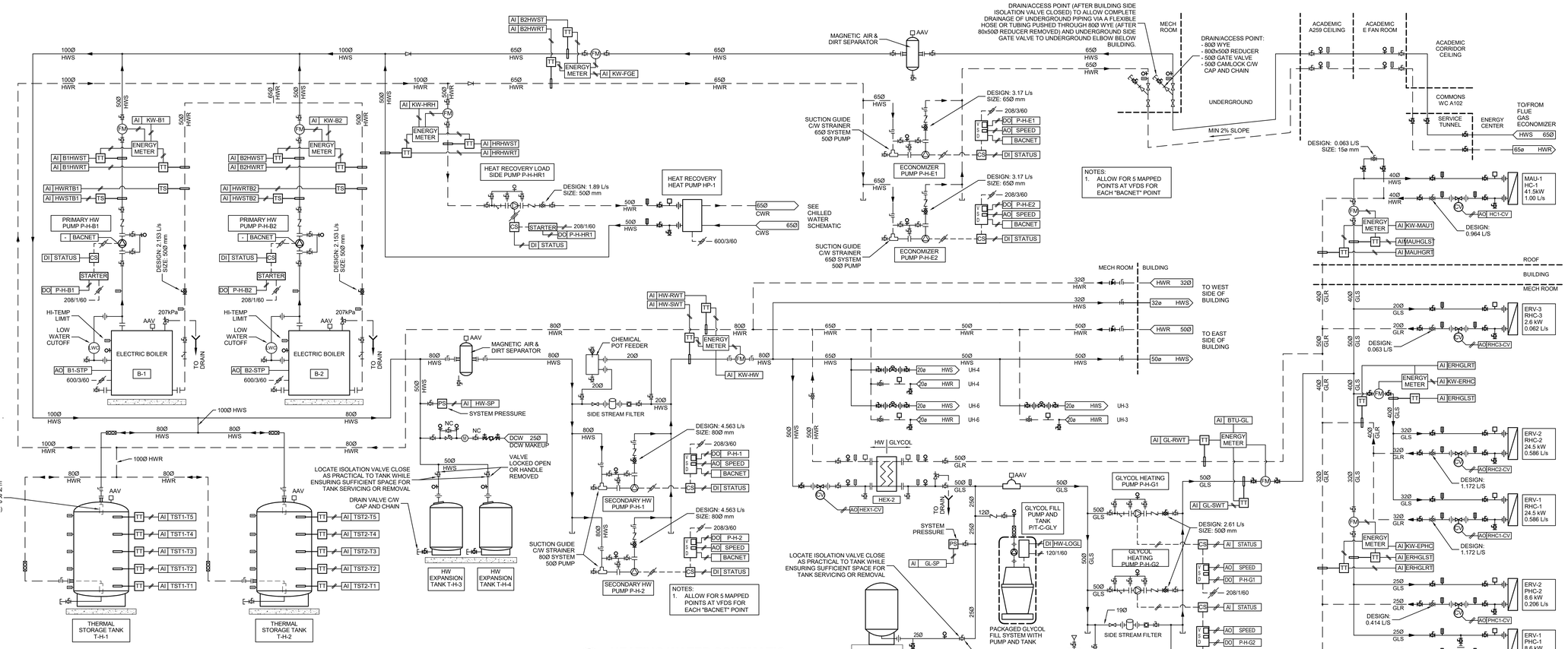
6 TERMINAL HEATING SCHEMATIC
M601 NTS



7 OA TEMP SENSOR
M601 NTS



4 FANCOIL COIL SCHEMATIC
M601 NTS



2 HEATING WATER SCHEMATIC
M601 NTS

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Notes

Revision			
F	RE-ISSUED FOR TENDER	A.MILLS	B.ZIKUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZIKUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZIKUM	B.ZIKUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZIKUM	B.ZIKUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZIKUM	B.ZIKUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZIKUM	B.ZIKUM	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	DS	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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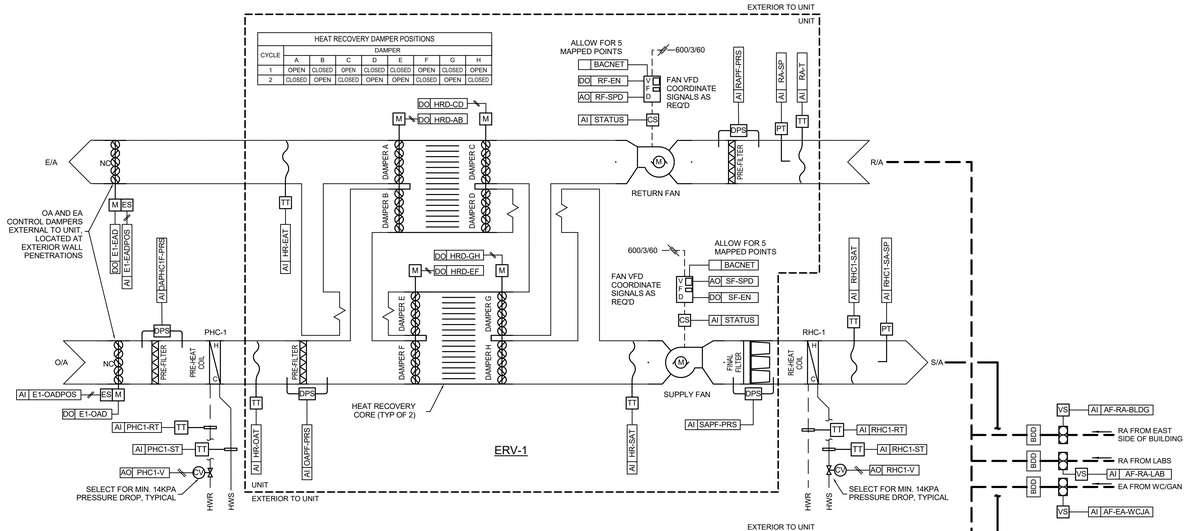
PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

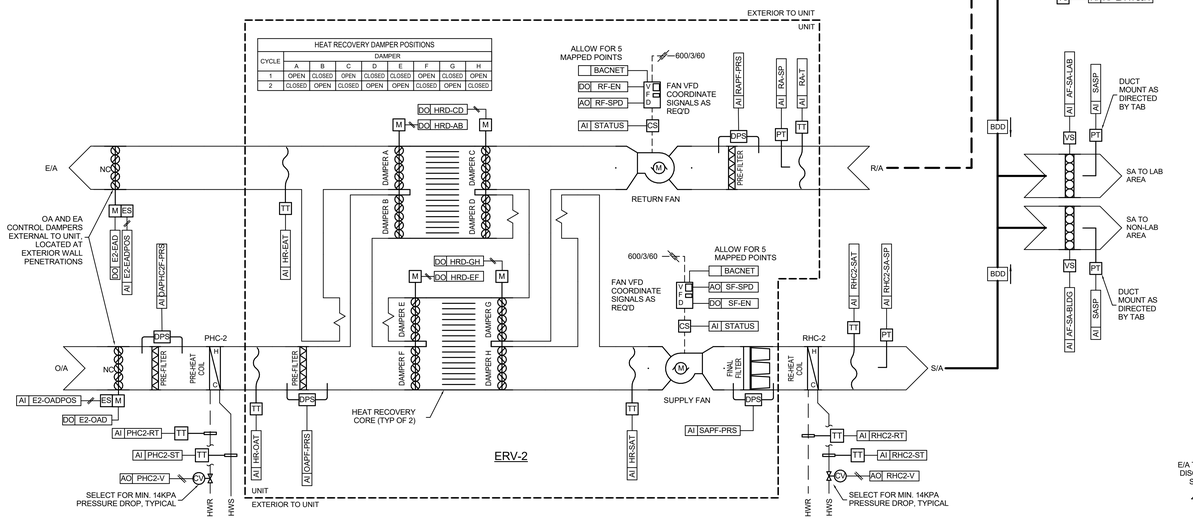
Title
HEATING WATER & CHILLED WATER SCHEMATICS

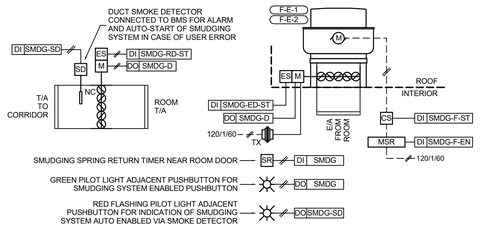
Project No. 144214760
Scale NTS
Revision F
Drawing No. **M601**



1 M602 CONTROL SCHEMATIC - ERV-1 & 2

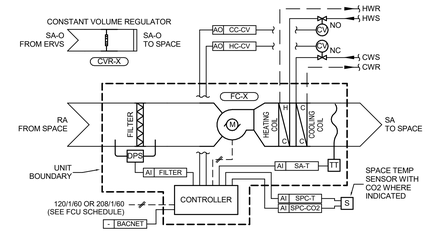
NTS





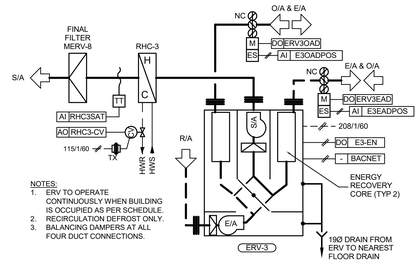
9 M602 CONTROL SCHEMATIC - SMUDGING EXHAUST FAN

NTS



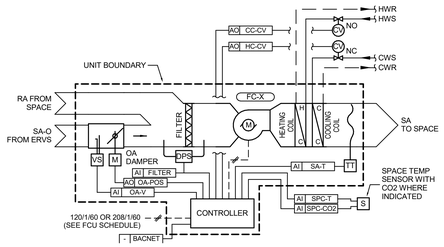
3 M602 CONTROL SCHEMATIC - FCU WITH CVR FOR OA

NTS



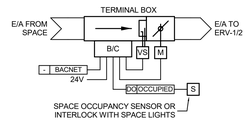
2 M602 CONTROL SCHEMATIC - ERV-3

NTS



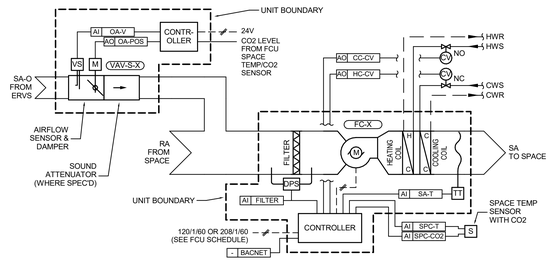
4 M602 CONTROL SCHEMATIC - FCU WITH OA INLET

NTS



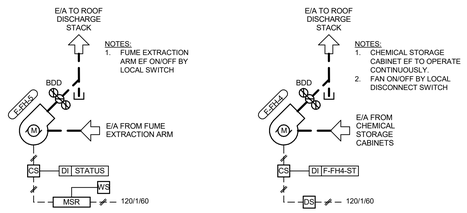
7 M602 CONTROL SCHEMATIC - E/A VAV BOX

NTS



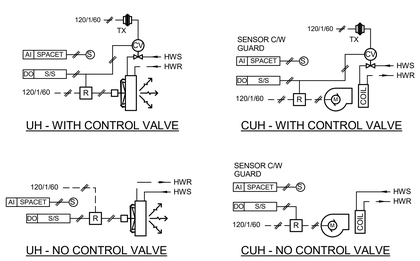
5 M602 CONTROL SCHEMATIC - FCU WITH VAV BOX FOR OA

NTS



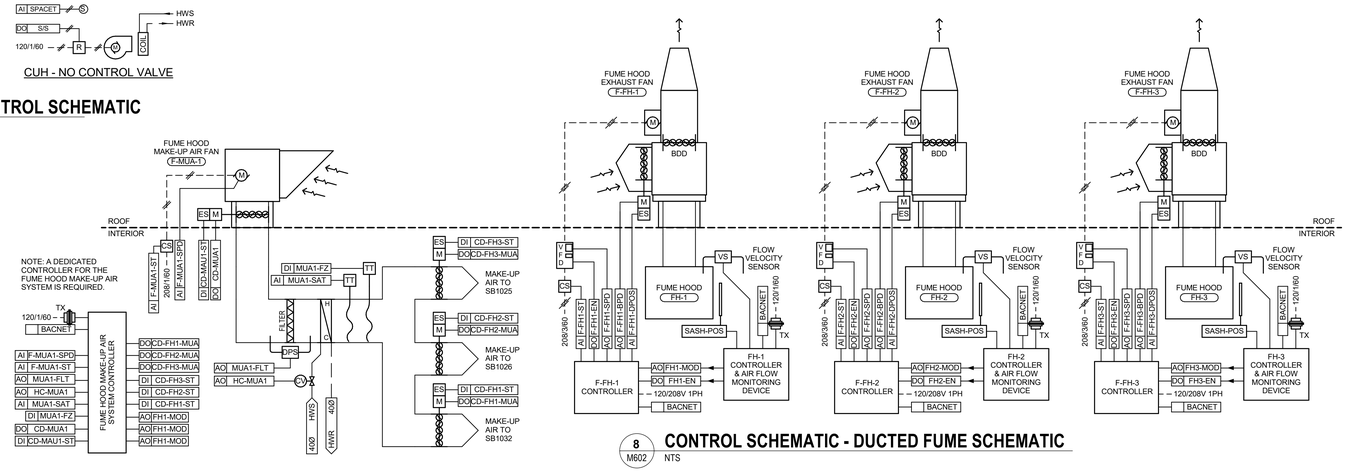
10 M602 CONTROL SCHEMATIC - MISC. LAB EXHAUST FANS

NTS



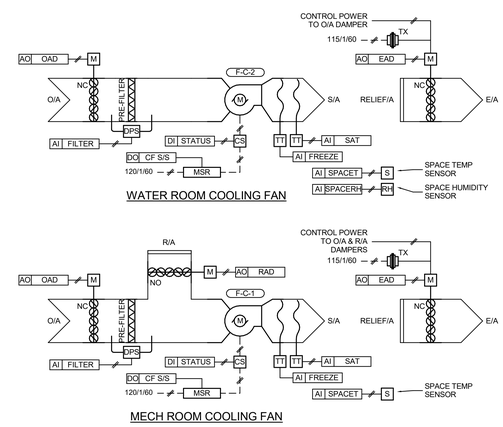
11 M602 UH & CUH CONTROL SCHEMATIC

NTS



8 M602 CONTROL SCHEMATIC - DUCTED FUME SCHEMATIC

NTS



6 M602 CONTROL SCHEMATIC - COOLING FANS

NTS

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Notes

Issued & Revision	By	Appd	
F RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.16

File Name: N/A

	DS.	BZ	RM.	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
VENTILATION SCHEMATICS

Project No. 144214760
Scale NTS
Revision F
Drawing No. **M602**

ORIGINAL SHEET - ISO A0

FIRE EXTINGUISHER SCHEDULE

TAG No.	MANUF-ACTURER	MODEL No.	DESCRIPTION	SIZE (kg)	ULC RATING	BRACKET	REMARKS
DCE-1	--	--	PRESSURIZED DRY CHEMICAL	2.27	2A-10B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENTION STRAP. BRACKET TO MATCH EXTINGUISHER MANUFACTURER.	ACCEPTABLE MATERIAL: ANSUL SENTRY, AMEREX, STRIKE FIRST, PYRO-CHEM, FIRST ALERT
DCE-2	--	--	PRESSURIZED DRY CHEMICAL	4.54	4A-80B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENTION STRAP. BRACKET TO MATCH EXTINGUISHER MANUFACTURER.	ACCEPTABLE MATERIAL: ANSUL SENTRY, AMEREX, STRIKE FIRST, PYRO-CHEM, FIRST ALERT
DCE-3	--	--	PRESSURIZED CLEAN AGENT	4.54	5-B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENTION STRAP. BRACKET TO MATCH EXTINGUISHER MANUFACTURER.	ACCEPTABLE MATERIAL: ANSUL CLEANGUARD, AMEREX, STRIKE FIRST, PYRO-CHEM, FIRST ALERT

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE

TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	CAPACITY (L)	ELEMENT (W)	RECOVERY RATE (L/HR)	ELEC (V/Ph/Hz)	SIZE (Ø x L) (mm)	REMARKS
DHWH-1	LABS	SB1028 - MECH ROOM	AO SMITH	DEN-80	284	6000	92	208/3/60	610x1508	
DHWH-2	LABS	SB1028 - MECH ROOM	AO SMITH	DEN-80	284	6000	92	208/3/60	610x1508	
DHWH-3	WC/JAN	SB1043 - CUSTODIAL/JANITOR CLOSET	AO SMITH	DEL-10	37	3000	23	208/3/60	457x464	WALL HUNG/MOUNTED
DHWH-4	WC/JAN	SB1014 - CUSTODIAL/JANITOR CLOSET	AO SMITH	DEL-10	37	3000	23	208/3/60	457x464	WALL HUNG/MOUNTED
DHWH-5	WC	SB1056 - WC (ABOVE CEILING)	AO SMITH	DEL-6	23	1500	23	208/3/60	362x394	WALL HUNG/MOUNTED ABOVE CEILING
DHWH-6	WC	SB1023 - SPECIMEN WORKSHOP/LABORATORY	AO SMITH	DEL-10	37	3000	23	208/3/60	457x464	WALL HUNG/MOUNTED ABOVE CEILING
DHWH-7	CAFÉ & KITCHENETTE	SB1008 - KITCHENETTE	AO SMITH	DEL-6	23	1500	23	208/3/60	362x394	MOUNTED IN CABINET BELOW SINK

PLUMBING FIXTURES SCHEDULE

TAG No.	MANUF-ACTURER	MODEL No.	DESCRIPTION	CONNECTION SIZES (Ømm) DCW	DHW	DTW	SAN	VENT	REMARKS
FD-1	WATTS	FD-100NH-C-A5-1-7	FLOOR DRAIN, PUBLIC	-	-	-	80	-	REGULAR FLOOR DRAIN FOR PUBLIC SPACES C/W TRAP GUARD.
FD-2	WATTS	FD-100NH-C-A5-1-7	FLOOR DRAIN, SERVICE	-	-	-	80	-	REGULAR FLOOR DRAIN FOR SERVICE AREAS C/W TRAP GUARD.
FD-3	WATTS	FD-100NH-EG-7-1	FUNNEL FLOOR DRAIN	-	-	-	80	-	FUNNEL FLOOR DRAIN C/W TRAP GUARD.
FD-4	WATTS	FD-100NH-C -DD-5-F6-1	HUB FUNNEL FLOOR DRAIN	-	-	-	150	-	HUB FUNNEL FLOOR DRAIN C/W 150mm ROUND NICKEL BRONZE FUNNEL, SEDIMENT BASKET, AND TRAP GUARD. FOR SPRINKLER TREE DRAIN / FIRE PUMP FLOW TEST DRAIN.
RD-1	WATTS	RD-100NH-D-F-K81	ROOF DRAIN	-	-	-	80	-	C/W ROUGH BRONZE DOME AND DECK FLANGE / ADJUSTABLE EXTENSION
HB-1	WATTS	HY-440 HYDRANT	HOSE BIBB	20	-	-	-	-	HOSE BIBB, 19mm, INTERIOR APPLICATION.
NFHB	WATTS	HY-7250 HYDRANT	NON-FREEZE EXTERIOR HOSE BIBB	20	-	-	-	-	NON-FREEZE EXTERIOR HOSE BIBB WITH WALL PLATE AND VACUUM BREAKER.
WC-1	AMERICAN STANDARD	2257101.020 AFWALL MILLENIUM FLOWISE	REGULAR WATER CLOSET, WALL HUNG	-	-	-	80	-	VITREOUS CHINA, ELONGATED, WALL-HUNG WATER CLOSET
	SLOAN	ROYAL 111 ESS-1.28	FLUSH VALVE, AUTOMATIC	25	-	-	-	-	4.8 LPF, HANDS-FREE FLUSH VALVE WITH HARDWIRED POWER TRANSFORMER
	CENTOCO	500STSCCSS-001	TOILET SEAT, ELONGATED OPEN FRONT	-	-	-	-	-	CONTOURED SOLID PLASTIC SEAT WITH STAINLESS STEEL POSTS AND CHECK HINGES
	WATTS	ISCA-101-L/R-AUX	WALL HANGER, FLOOR MOUNTED, SINGLE	-	-	-	-	-	-
WC-2	AMERICAN STANDARD	2257101.020 AFWALL MILLENIUM FLOWISE	ADA WATER CLOSET, WALL HUNG	25	-	-	80	-	VITREOUS CHINA, ELONGATED, WALL-HUNG WATER CLOSET, WITH HANDS-FREE FLUSH VALVE CONNECTED TO ELECTRICAL SYSTEM, CONTOURED SOLID PLASTIC SEAT WITH ss OR BRASS POSTS AND CHECK HINGES, SS WALL MOUNTED BACK REST AND C/W FLOOR MOUNTED WALL HANGER.
	SLOAN	ROYAL 111 ESS-1.28	FLUSH VALVE, AUTOMATIC	25	-	-	-	-	4.8 LPF, HANDS-FREE FLUSH VALVE WITH HARDWIRED POWER TRANSFORMER
	CENTOCO	1500STSCCSS-001	TOILET SEAT, ELONGATED OPEN FRONT	-	-	-	-	-	EXTRA HEAVY DUTY CONTOURED SOLID PLASTIC SEAT WITH STAINLESS STEEL POSTS AND CHECK HINGES
	FRANKE COMMERCIAL	CM-16104-WM	BACKREST	-	-	-	-	-	WALL MOUNTED 18 GAUGE STAINLESS STEEL BACKREST WITH 305mm WIDE x 100mm TALL PLASTIC LAMINATE PANEL.
	WATTS	ISCA-101-L/R-AUX	WALL HANGER, FLOOR MOUNTED	-	-	-	-	-	-
UR-1	AMERICAN STANDARD	6590.001 WASHBROOK FLOWISE	URINAL	20	-	-	50	-	VITREOUS CHINA, WALL-HUNG TOP SPUD URINAL, WITH HANDS-FREE FLUSH VALVE CONNECTED TO ELECTRICAL SYSTEM, AND C/W FLOOR MOUNTED WALL HANGER.
	SLOAN	ROYAL 186 ESS-0.25	FLUSH VALVE, AUTOMATIC	25	-	-	-	-	0.9 LPF, HANDS-FREE FLUSH VALVE WITH HARDWIRED POWER TRANSFORMER
	WATTS	CA-311	WALL HANGER, FLOOR MOUNTED	-	-	-	-	-	-
LV-1A	THE SPLASH LAB	TSL.MON.A.60.2 MONOLITH A SERIES	WALL HUNG CONTINUOUS TROUGH SINK, ADA	-	-	-	2@ 32	2@ 32	2 STATION DECK MOUNTED FIXTURES (SINGLE HOLE FAUCET, SINGLE HOLE SOAP DISPENSER ON RIGHT SIDE OF FAUCET, DRAIN HOLE WITH DRAINAGE FUNNEL, GASKET, AND SCREWS), 1524mm (60") LONG ONE PIECE 100% SOLID SURFACE ACRYLIC/RESIN TROUGH SINK, STAINLESS STEEL WALL MOUNTING BRACKETS. NO PIPE SKIRT - REFER TO ARCH DETAILS FOR PIPE SKIRT.
	(SEE NOTES)	--	(ACCESSORIES)	-	-	-	-	-	REFER TO LV-1-ACCS BELOW FOR ACCESSORIES.
LV-1B	THE SPLASH LAB	TSL.MON.A.120.4 MONOLITH A SERIES	WALL HUNG CONTINUOUS TROUGH SINK, ADA	-	-	-	4@ 32	4@ 32	4 STATION DECK MOUNTED FIXTURES (SINGLE HOLE FAUCET, SINGLE HOLE SOAP DISPENSER ON RIGHT SIDE OF FAUCET, DRAIN HOLE WITH DRAINAGE FUNNEL, GASKET, AND SCREWS), 3048mm (120") LONG ONE PIECE 100% SOLID SURFACE ACRYLIC/RESIN TROUGH SINK, STAINLESS STEEL WALL MOUNTING BRACKETS. NO PIPE SKIRT - REFER TO ARCH DETAILS FOR PIPE SKIRT.
	(SEE NOTES)	--	(ACCESSORIES)	-	-	-	-	-	REFER TO LV-1-ACCS BELOW FOR ACCESSORIES.
LV-1-ACCS	(SEE NOTES)	--	(ACCESSORIES FOR LV-1A AND LV-1B)	-	-	-	-	-	-
	LAWLER	570-86820	COUNTERTOP LAVATORY MIXING VALVE	13	13	13	-	-	-
	SLOAN	EFX-200-HLT-CP-0.5GPM-MLM-IR-FCT	COUNTERTOP LAVATORY FAUCET	-	-	13	-	-	HANDS-FREE FAUCET C/W WITH AC ADAPTER FOR PLUG-IN POWER AND DAISY CHAIN CONNECTORS FOR UP TO 6 FAUCETS ON ONE AC ADAPTER. FAUCET PURGE CYCLE TO BE SET FOR 12 HRS AND FAUCET CYCLES TO BE STAGGERED BY 3-6 HOURS.
	BOBRICK	B-824 SUREFLO	COUNTERTOP AUTOMATIC SOAP DISPENSER	-	-	-	-	-	THROUGH HOLE AUTOMATIC SOAP DISPENSER, TOP FILL, QUANTITY TO MATCH LAVATORY FAUCETS. C/W 824-201 AC ADAPTER KIT FOR UP TO 4 SOAP DISPENSERS FOR PLUG-IN POWER.
LV-2	FRANKE COMMERCIAL	WHB2221-8/1	WALL HUNG LAVATORY, ADA	-	-	15	40	32	SS WALL HUNG LAVATORY WITH LEDGE BACK, OPEN FACE STRAINER, OFFSET WASTE AND P-TRAP, AND INSULATION PACKAGE FOR WASTE AND WATER SUPPLIES.
	LAWLER	570-86820	WALL HUNG LAVATORY MIXING VALVE	15	15	15	-	-	-
	SLOAN	EFX-200-HLT-CP-0.5GPM-MLM-IR-FCT	WALL HUNG LAVATORY FAUCET	-	-	15	-	-	HANDS-FREE FAUCET C/W WITH AC ADAPTER FOR PLUG-IN POWER
	WATTS	CA-421	WALL HUNG LAVATORY CARRIER	-	-	-	-	-	-
SK-1	FRANKE COMMERCIAL	ALBS6106P-3	KITCHEN SINK, SINGLE BOWL	-	-	-	40	32	DROP-IN STYLE 304 SS COUNTERTOP SINK WITH LEDGE BACK, 203mm CENTERSET FAUCET HOLES, BOWL 533 SIDE-TO-SIDE x 406 BACK -TO-FRONT x 152 DEEP
	AMERICAN STANDARD	COLONY PRO 7074.00.075	SWING SPOUT KITCHEN SINK FAUCET	15	15	-	-	-	ADA COMPLIANT DECK MOUNTED 203mm CENTERSET FAUCET C/W DECK PLATE, 216mm SWING SPOUT, 5.7 LPM FLOW RATE, SINGLE LEVEL HANDLE WITH COLOR INDEXING, CERAMIC DISC VALVE CARTRIDGES, STAINLESS STEEL FINISH.
SK-2	(SEE NOTES)	--	KITCHEN SINK	-	-	-	40	32	ROUGH-IN FOR CAFÉ KITCHEN SINK. REFER TO FOOD SERVICES FOR FIXTURE INFORMATION
	(SEE NOTES)	--	KITCHEN SINK FAUCET	15	15	-	-	-	ROUGH-IN FOR CAFÉ KITCHEN SINK. REFER TO FOOD SERVICES FOR FIXTURE INFORMATION
MS-1	FIAT	MSB2424 with 830AA, 832AA, 889CC, MSG2424, E88-AA	JANITOR SINK	20	20	-	50	40	FLOOR MOUNTED, MOLDED STONE SINK, 610x610, WALL-MOUNTED SERVICE FAUCET (WITH WALL BRACE, SPOUT WITH BUCKET HOOK AND HOSE END OUTLET, VACUUM BREAKER, AND INTEGRAL SERVICE STOPS), 30" HOSE & HOSE BRACKET, MOPE HANGER, SS WALL GUARD, SS SINK BUMPER GUARD.
DF-1	ELKAY	EZSDWSVRSK	SURFACE MOUNTED DRINKING FOUNTAIN WITH BOTTLE FILL STATION	15	-	-	32	32	STAINLESS STEEL, NON-FILTERED, NON-REFRIGERATED, ELECTRONIC FRONT AND SIDE BUBLBER PUSHBAR ACTIVATION, HANDS-FREE BOTTLE FILL OPERATION, GREEN TICKER (20oz PLASTIC BOTTLES SAVED), 120V PLUG-IN POWER CORD
WB-1	OATEY	38482	FIRE RATED WASHING MACHINE OUTLET BOX	15	15	-	50	40	FIRE RATED CLOTHES WASHING MACHINE WALL OUTLET BOX, SUITABLE FOR 2 HR FIRE-RATING, C/W SINGLE LEVER BRASS BALL VALVE SHUTOFF FOR BOTH COLD/HOT WATER AND WATER HAMMER ARRESTORS.
ES-1	GUARDIAN	G1902P	EMERGENCY SHOWER/EYEWASH	-	-	20	-	-	EMERGENCY SHOWER AND EYEWASH, SS YELLOW OR ORANGE BOWL AND SHOWER HEAD C/W MIXING VALVE, MINIMUM FLOW RATE 1.26 L/S. PROVIDE FLOOR DRAIN WITH SHOWER.
	GUARDIAN	G3800LF	EMERGENCY SHOWER MIXING VALVE	20	20	20	-	-	-
EW-1	GUARDIAN	G1848	EMERGENCY EYEWASH	-	-	15	-	-	WALL MOUNTED SWING DOWN EYEWASH. AUTOFLOW ON SWING-DOWN C/W MIXING VALVE, MINIMUM FLOW RATE:0.1 L/S. INSTALL OVER HAND WASH SINK.
	GUARDIAN	G6020	EMERGENCY EYEWASH MIXING VALVE	15	15	15	-	-	-
HS-1	FRANKE COMMERCIAL	WTS36-1	HAND WASH SINK, 2 PERSON	-	-	-	40	32	WALL MOUNTED SS SINK, DRILLED FOR 2@ WALL-MOUNT FAUCETS, CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP
	CHICAGO FAUCETS	521-GN2A-317-R2805-5JKABCP	HAND WASH SINK FAUCET	15	15	-	-	-	2@ WALL MOUNTED 102mm CENTERSET FAUCET, 254mm HIGH AND 133mm REACH GOOSENECK OUTLET, RIGID SPOUT, 1.9 LPM FLOW RATE, 102mm WRIST BLADE HANDLES
	LAWLER	570-86820	HAND WASH SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
HS-2	FRANKE COMMERCIAL	WHB1616-3/2	HAND WASH SINK , 1 PERSON	-	-	-	40	32	WALL MOUNTED SS SINK, DRILLED FOR 2@ WALL-MOUNT FAUCETS, CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP
	CHICAGO FAUCETS	521-GN2A-317-R2805-5JKABCP	HAND WASH SINK FAUCET	15	15	-	-	-	WALL MOUNTED 102mm CENTERSET FAUCET, 254mm HIGH AND 133mm REACH GOOSENECK OUTLET, RIGID SPOUT, 1.9 LPM FLOW RATE, 102mm WRIST BLADE HANDLES
	LAWLER	570-86820	HAND WASH SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
	WATTS	CA-421	HAND WASH SINK CARRIER	-	-	-	-	-	-
LS-1	FRANKE COMMERCIAL	LBS6810-316P-1	DRY LAB SINK	-	-	-	40	32	DROP-IN STYLE 316 SS COUNTERTOP LAB SINK WITH LEDGE BACK, SINGLE FAUCET HOLE, BOWL 450 SIDE-TO-SIDE x 400 BACK -TO-FRONT x 200 DEEP
	CANADIAN SCIENTIFIC LAB SYSTEMS	L411VB-BH	DRY LAB SINK FAUCET	15	15	-	-	-	FAUCET TO BE DECK MOUNTED LABORATORY MIXING FAUCET W/ 200mm RIGID GOOSENECK WITH OUTLET MIN 150mm ABOVE DECK, 100mm WRIST BLADE HOT/COLD HANDLES WITH RED/BLUE COLOUR INDEXING.
	LAWLER	570-86820	DRY LAB SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
LS-2	FRANKE COMMERCIAL	LBS6810-316P-1	CHEM LAB SINK	-	-	-	40	32	DROP-IN STYLE 316 SS COUNTERTOP LAB SINK WITH LEDGE BACK, SINGLE FAUCET HOLE, BOWL 450 SIDE-TO-SIDE x 400 BACK -TO-FRONT x 200 DEEP, ACID RESISTANT POLYPROPYLENE DRAIN PIPING TO NEUTRALIZING TANK
	CANADIAN SCIENTIFIC LAB SYSTEMS	L411VB-BH	CHEM LAB SINK FAUCET	15	15	-	-	-	DECK MOUNT FAUCET (WITH RED/BLUE COLOUR INDEXING) WITH GOOSENECK OUTLET MINIMUM 150 ABOVE DECK, RIGID SPOUT, SERRATED OUTLET WITH VACUUM BREAKER & 112mm BLADE HANDLES
	LAWLER	570-86820	CHEM LAB SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
	SMS	AN 4/SI-MD	ACID NEUTRALIZING TANK	-	-	-	-	-	ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER SINK OR PER 2 SINKS IF THEY ARE IMMEDIATELY ADJACENT.
LS-3	FRANKE COMMERCIAL	LBP6108P-1	BIOLOGY LAB SINK	-	-	-	40	32	DROP-IN STYLE 304 SS COUNTERTOP SINK WITH LEDGE BACK, SINGLE FAUCET HOLE, BOWL 533 SIDE-TO-SIDE x 406 BACK-TO-FRONT x 200 DEEP, ACID RESISTANT POLYPROPYLENE DRAIN PIPING TO NEUTRALIZING TANK
	CANADIAN SCIENTIFIC LAB SYSTEMS	L411VB-BH	BIOLOGY LAB SINK FAUCET	15	15	-	-	-	DECK MOUNT FAUCET (WITH RED/BLUE COLOUR INDEXING) WITH GOOSENECK OUTLET MINIMUM 150 ABOVE DECK, RIGID SPOUT, SERRATED OUTLET WITH VACUUM BREAKER & 112mm BLADE HANDLES
	LAWLER	570-86820	BIOLOGY LAB SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
	SMS	AN 4/SI-MD	ACID NEUTRALIZING TANK	-	-	-	-	-	ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER SINK OR PER 2 SINKS IF THEY ARE IMMEDIATELY ADJACENT.
LS-4	FRANKE COMMERCIAL	LBS6810-316P-1	PREP ROOM/LAB INSTRUCTOR'S SINK	-	-	-	40	32	DROP-IN STYLE 316 SS COUNTERTOP LAB SINK WITH LEDGE BACK, SINGLE FAUCET HOLE, BOWL 450 SIDE-TO-SIDE 400 BACK-TO-FRONT x 200 DEEP, ACID RESISTANT POLYPROPYLENE DRAIN PIPING TO NEUTRALIZING TANK
	CANADIAN SCIENTIFIC LAB SYSTEMS	L412VB-BH	PREP ROOM/LAB INSTRUCTORS FAUCET	15	15	-	-	-	DECK MOUNT FAUCET (WITH RED/BLUE COLOUR INDEXING) WITH GOOSENECK OUTLET MINIMUM 150 ABOVE DECK, SWING SPOUT, SERRATED OUTLET WITH VACUUM BREAKER & 112mm BLADE HANDLES
	CANADIAN SCIENTIFIC LAB SYSTEMS	L612VB-BH	PREP ROOM/LAB INSTRUCTORS FAUCET, REVERSE OSMOSIS WATER	15*	-	-	-	-	DECK MOUNT FAUCET (WITH WHITE COLOUR INDEXING) WITH GOOSENECK OUTLET MINIMUM 150 ABOVE DECK, SWING SPOUT, SERRATED WITH VACUUM BREAKER & 112mm BLADE HANDLE FOR REVERSE OSMOSIS WATER. * INLET SIZE LISTED IS FOR REVERSE OSMOSIS WATER
	LAWLER	570-86820	PREP ROOM/LAB INSTRUCTOR'S SINK MIXING VALVE	15	15	15	-	-	MIXING VALVE FOR HOT WATER SUPPLY TO LIMIT TEMPERATURE
	SMS	AN 4/SI-MD	ACID NEUTRALIZING TANK	-	-	-	-	-	ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER SINK OR PER 2 SINKS IF THEY ARE IMMEDIATELY ADJACENT.
FH-1	SMS	AN 4/SI-MD	FUME HOOD ACID NEUTRALIZING TANK	15	15		40	32	C/W CUP SINK SUPPLIED WITH AND INTEGRAL TO FUME HOOD. GOOSENECK FAUCET INTEGRAL TO FUME HOOD WITH EXTERIOR FAUCET HANDLES FOR COLD AND HOT WATER. ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER FUME HOOD CUP SINK OR PER 2 FUME HOOD CUP SINKS IF THEY ARE IMMEDIATELY ADJACENT.
FH-1-ADA	SMS	AN 4/SI-MD	FUME HOOD ACID NEUTRALIZING TANK	15	15		40	32	C/W CUP SINK SUPPLIED WITH AND INTEGRAL TO FUME HOOD. GOOSENECK FAUCET INTEGRAL TO FUME HOOD WITH EXTERIOR FAUCET HANDLES FOR COLD AND HOT WATER. ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER FUME HOOD CUP SINK OR PER 2 FUME HOOD CUP SINKS IF THEY ARE IMMEDIATELY ADJACENT.
FH-2	SMS	AN 4/SI-MD	FUME HOOD ACID NEUTRALIZING TANK	15	15		40	32	C/W CUP SINK SUPPLIED WITH AND INTEGRAL TO FUME HOOD. GOOSENECK FAUCET INTEGRAL TO FUME HOOD WITH EXTERIOR FAUCET HANDLES FOR COLD AND HOT WATER. ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER FUME HOOD CUP SINK OR PER 2 FUME HOOD CUP SINKS IF THEY ARE IMMEDIATELY ADJACENT.
FH-2-ADA	SMS	AN 4/SI-MD	FUME HOOD ACID NEUTRALIZING TANK	15	15		40	32	C/W CUP SINK SUPPLIED WITH AND INTEGRAL TO FUME HOOD. GOOSENECK FAUCET INTEGRAL TO FUME HOOD WITH EXTERIOR FAUCET HANDLES FOR COLD AND HOT WATER. ACID NEUTRALIZER IN THE CABINET BELOW. ONE NEUTRALIZER PER FUME HOOD CUP SINK OR PER 2 FUME HOOD CUP SINKS IF THEY ARE IMMEDIATELY ADJACENT.
CHS-1	(BY OTHERS)	--	CAFÉ - HAND SINK	15	15	-	40	32	SUPPLY OF FIXTURE BY OTHERS - PROVIDE DCW, DHW, SAN, SAN VENT CONNECTIONS AS REQURIED.
CSK-1	(BY OTHERS)	--	CAFÉ - 3 COMPARTMENT SINK	20	20	-	50	32	SUPPLY OF FIXTURE BY OTHERS - PROVIDE DCW, DHW, SAN, SAN VENT CONNECTIONS AS REQURIED.
CSK-2	(BY OTHERS)	--	CAFÉ - SINK	15	15	-	40	32	SUPPLY OF FIXTURE BY OTHERS - PROVIDE DCW, DHW, SAN, SAN VENT CONNECTIONS AS REQURIED.
CCB-1	(BY OTHERS)	--	CAFÉ - COFFEE BREWER	15	-	-	-	-	SUPPLY OF FIXTURE BY OTHERS - PROVIDE DCW, DHW, SAN, SAN VENT CONNECTIONS AS REQURIED.
CEM-1	(BY OTHERS)	--	CAFÉ - ESPRESSO / CAPPUCCIO MACHINE	15	-	-	-	-	SUPPLY OF FIXTURE BY OTHERS - PROVIDE DCW, DHW, SAN, SAN VENT CONNECTIONS AS REQURIED.

TANK SCHEDULE

TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	USAGE	TANK VOLUME (L)	TANK ACCEPTANCE VOLUME (L)	DIMENSIONS (Ø X L) (W x L x H) (mm)	REMARKS
TK-H-1	HEATING WATER	SB1028 - MECH ROOM	BRADFORD WHITE / NILES STEEL TANK	NV3805TE1A / S-72-216	THERMAL STORAGE	14403	N/A	1943x5696	NOTE 1
TK-H-2	HEATING WATER	SB1028 - MECH ROOM	BRADFORD WHITE / NILES STEEL TANK	NV3805TE1A / S-72-216	THERMAL STORAGE	14403	N/A	1943x5696	NOTE 1
TK-H-3	HEATING WATER	SB1028 - MECH ROOM	AMTROL	800-L	EXPANSION TANK	799	799	762x2083	FULL ACCEPTANCE BLADDER TYPE
TK-H-4	HEATING WATER	SB1028 - MECH ROOM	AMTROL	800-L	EXPANSION TANK	799	799	762x2083	FULL ACCEPTANCE BLADDER TYPE
TK-H-6	GLYCOL HEATING WATER	SB1028 - MECH ROOM	AMTROL	85-LBC	EXPANSION TANK	83	42	406x889	PARTIAL ACCEPTANCE BLADDER TYPE
P/TK-H-GLY	GLYCOL HEATING WATER	SB1028 - MECH ROOM	AXIOM	SF100	GLYCOL FILL	208	N/A	610x1245	PACKAGED GLYCOL FILL TANK C/W PUMP. SEE PUMP SCHEDULE FOR PUMP INFO.
P/TK-C-GLY	CHILLED WATER	SB1028 - MECH ROOM	AXIOM	SF100	GLYCOL FILL	208	N/A	610x1245	PACKAGED GLYCOL FILL TANK C/W PUMP. SEE PUMP SCHEDULE FOR PUMP INFO.
TK-C-1	CHILLED WATER	SB1028 - MECH ROOM	AMTROL	CWBT120-3	BUFFER	454	N/A	610x1416	
TK-C-2	CHILLED WATER	SB1028 - MECH ROOM	AMTROL	85-LBC	EXPANSION TANK	83	42	406x889	PARTIAL ACCEPTANCE BLADDER TYPE

NOTE 1: CARBON STEEL TANK, EPOXY LINING, 75mm HIGH DENSITY POLYURETHANE SPRAY FOAM INSULATION WITH 100% ACRYLIC TOP COAT, 80mm CONNECTION CENTER TOP, 80mm CONNECTION BOTTOM SIDE, 80mm STAINLESS STEEL SPARGE TUBE DIFFUSER ON TANK WATER CONNECTIONS, 5@ 20mm TAPPINGS FOR TEMPERATURE SENSORS AND 5@ 20mm TAPPINGS FOR THERMOMETERS SPACED EQUIDISTANT FROM TOP TO BOTTOM, 406mm X 305mm MANWAY.

PUMP SCHEDULE

TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	CAPACITY (L/s)	HEAD (M)	MOTOR (HP)	RPM	ELECTRICAL (V/Ph/Hz)	REMARKS
P-F-1	FIRE PUMP	SB1031 - WATER ROOM	ARMSTRONG	VIL 5x5x8FM	28.400	49.29	40	3600	575/3/60	C/W FIRE PUMP CONTROLLER (GPR-GPU-600/4/3/60)
P-F-2	JOCKEY FIRE PUMP	SB1031 - WATER ROOM	ARMSTRONG	4700-VMS-01:08B-2P-1HP	0.470	56.33	1	3600	575/3/60	C/W JOCKEY PUMP CONTROLLER (JP3-600/1/3/60)
P-W-1	WATER SERVICE RECIRC	SB1031 - WATER ROOM	GRUNDFOS	UPS 15-35 SFC	0.330	1.36	110 W	--	120/1/60	PUMP HAS INTEGRAL 3 SPEED MOTOR, SELECTED ON SPEED 2
P-W-2	WATER SERVICE RECIRC	SB1031 - WATER ROOM	GRUNDFOS	UPS 15-35 SFC	0.330	1.40	110 W	--	120/1/60	PUMP HAS INTEGRAL 3 SPEED MOTOR, SELECTED ON SPEED 2
P-W-3	DW PRESSURE BOOSTER	SB1031 - WATER ROOM	GRUNDFOS	HYDRO MULTI-B/E 3 CME5-4	1.334	42.00	2	3343	208/3/60	NOTE 1, NOTE 2
P-W-4	DW PRESSURE BOOSTER	SB1031 - WATER ROOM	GRUNDFOS	HYDRO MULTI-B/E 3 CME5-4	1.334	42.00	2	3343	208/3/60	NOTE 1, NOTE 2
P-W-5	DW PRESSURE BOOSTER	SB1031 - WATER ROOM	GRUNDFOS	HYDRO MULTI-B/E 3 CME5-4	1.334	42.00	2	3343	208/3/60	NOTE 1, NOTE 2
P-W-6	DHW RECIRC	SB1028 - MECH ROOM	GRUNDFOS	ALPHA2 15-55 SF/LC	0.190	3.00	45 W	--	120/1/60	PUMP HAS INTEGRAL VARIABLE SPEED ECM MOTOR AND CONTROLLER
P-W-7	DHW RECIRC	SB1028 - MECH ROOM	GRUNDFOS	ALPHA2 15-55 SF/LC	0.190	3.00	45 W	--	120/1/60	PUMP HAS INTEGRAL VARIABLE SPEED ECM MOTOR AND CONTROLLER
P-C-C1	CHILLER CH-1 PUMP	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 50-150 F	2.238	6.31	598 W	3083	208/1/60	NOTE 1, NOTE 3
P-C-C2	CHILLER CH-2 PUMP	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 50-150 F	2.238	6.31	598 W	3083	208/1/60	NOTE 1, NOTE 3
P-C-1	CW SECONDARY PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	4.534	9.58	3	2408	208/3/60	NOTE 1, NOTE 3
P-C-2	CW SECONDARY PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	4.534	9.58	3	2408	208/3/60	NOTE 1, NOTE 3
P-C-R1	HEAT PUMP SOURCE SIDE (CW)	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 50-150 F	3.780	6.51	598 W	3237	208/1/60	NOTE 1, NOTE 3
P/T-C-GLY	GLYCOL FILL CHILLED WATER	SB1028 - MECH ROOM	AXIOM	SF100	--	--	0.7 A	--	120/1/60	PACKAGED GLYCOL FILL TANK C/W PUMP. SEE TANK SCHEDULE FOR TANK INFO.
P-H-B1	ELECTRIC BOILER B1	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 40-80 F	2.153	1.67	285 W	2290	120/1/60	NOTE 1, NOTE 3
P-H-B2	ELECTRIC BOILER B2	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 40-80 F	2.153	1.67	285 W	2290	120/1/60	NOTE 1, NOTE 3
P-H-E1	ECONOMIZER PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	3.170	22.19	3	3122	208/3/60	NOTE 1, NOTE 3
P-H-E2	ECONOMIZER PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	3.170	22.19	3	3122	208/3/60	NOTE 1, NOTE 3
P-H-1	HW SECONDARY PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	4.563	11.83	3	2552	208/3/60	NOTE 1, NOTE 3
P-H-2	HW SECONDARY PUMP	SB1028 - MECH ROOM	GRUNDFOS	NSBE 012-070/4.69	4.563	11.83	3	2552	208/3/60	NOTE 1, NOTE 3
P-H-G1	GLYCOL HW PUMP	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 50-180 F	2.609	12.37	755 W	4255	208/1/60	NOTE 1, NOTE 3
P-H-G2	GLYCOL HW PUMP	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 50-180 F	2.609	12.37	755 W	4255	208/1/60	NOTE 1, NOTE 3
P-H-R1	HEAT PUMP LOAD SIDE (HW)	SB1028 - MECH ROOM	GRUNDFOS	MAGNA3 32-60 F	1.890	1.66	106 W	2554	120/1/60	NOTE 1, NOTE 3
P/T-H-GLY	GLYCOL FILL HEATING WATER	SB1028 - MECH ROOM	AXIOM	SF100	--	--	0.7 A	--	120/1/60	PACKAGED GLYCOL FILL TANK C/W PUMP. SEE TANK SCHEDULE FOR TANK INFO.
P-COND	CONDENSATE	VARIES	LITTLE GIANT	EC-1-DV	5.7 L/hr	3.00	0.18	--	120/1/60	CONDENSATE PUMP WITH REMOTE RESERVOIR. PROVIDE FOR FANCOILS WHERE NOTED ON DRAWINGS.

NOTE 1: PUMP HAS SYNCHRONOUS PERMANENT MAGNET MOTOR WITH INTEGRAL VARIABLE SPEED CONTROLLER (GRUNDFOS MLE MOTOR)
NOTE 2: PUMP INTEGRAL TO PACKAGED TRIPLEX DW BOOSTER SYSTEM C/W CONTROL PANEL.
NOTE 3: PROVIDE "CIU" OR "CIM" (COMMUNICATION INTERFACE UNIT/MODULE) FOR BACNET COMMUNICATION WITH PUMP

WATER TO WATER HEAT PUMP SCHEDULE

TAG No.	LOCATION	MANUF-ACTURER	MODEL	HEATING CAPACITY (KW)	EFF. RATIO (COP) HEAT @ AHRI	HEAT @ DESIGN	SOURCE SIDE FLUID	FLOW (L/s)	P.D. (kPa)	EWT (°C)	LWT (°C)	LOAD SIDE FLUID	FLOW (L/s)	P.D. (kPa)	EWT (°C)	LWT (°C)	REFG. TYPE	ELECTRICAL MCA	MOP	V/Ph/Hz	REMARKS
HP-R-1	SB1028 - MECH ROOM	TRANE	EXWE24050	66.69	4.10	3.71	50% PG	3.78	42.7	14.0	6.0	WATER	1.89	9.2	48.9	60.0	R410A	30.6	40	575/3/60	WASTE HEAT RECOVERY HEAT PUMP

ELECTRIC BOILER SCHEDULE

TAG No.	LOCATION	MANUFACTURER	MODEL No.	OUTPUT (kW)	FLUID FLOW (L/s)	FLUID IN (°C)	FLUID OUT...	PRV PRESSURE (kPa)	ELEC (V/Ph/Hz)	SIZE LxWxH (mm)	WEIGHT (kg)	REMARKS
B-1	SB1028 - MECH ROOM	CALORITECH	VWBF-10-100	100.0	2.153	48.9	60.0	206.9	600/3/60	610x406x1372	181	ELECTRIC BACKUP BOILER. 50mm INLET/OUTLET. 20mm DRAIN VALVE. 51.4L WATER VOLUME.
B-2	SB1028 - MECH ROOM	CALORITECH	VWBF-10-100	100.0	2.153	48.9	60.0	206.9	600/3/60	610x406x1372	181	ELECTRIC BACKUP BOILER. 50mm INLET/OUTLET. 20mm DRAIN VALVE. 51.4L WATER VOLUME.

CHILLER SCHEDULE

TAG No.	TYPE	LOCATION	MANU-FACTURER	MODEL No.	CAPACITY (kW)	COOLING EER	EWT (°C)	LWT (°C)	FLOW (L/s)	P.D (kPa)	FLUID	REFG. TYPE	REFG. (kg)	OIL (L)	MCA	MOP	ELEC (V/Ph/Hz)	SOUND (dBA)	DIMENSIONS (LxWxH)	WEIGHT (kg)	REMARKS
CH-1	AIR COOLED CHILLER	ROOF ABOVE SB1028 BETWEEN GRIDS B&C	TRANE	CGAM020G2 **3AXD2A	65.70	10.28	14.0	6.0	2.24	37.6	50% PG	R410A	20.4	6.6	42	50	600/3/60	61 @ 9m	2896x1270x2159	1034.6	2 COMPRESSORS, C/W CONVIENENCE RECEPTACLE & TRANSFORMER FROM MAIN POWER
CH-2	AIR COOLED CHILLER	ROOF ABOVE SB1028 BETWEEN GRIDS B&C	TRANE	CGAM020G2 **3AXD2A	65.70	10.28	14.0	6.0	2.24	37.6	50% PG	R410A	20.4	6.6	42	50	600/3/60	61 @ 9m	2896x1270x2159	1034.6	2 COMPRESSORS

HEAT EXCHANGER SCHEDULE

TAG No.	LOCATION	MANUFACTURER	MODEL	HEAT EXCHANGED (KW)	HOT SIDE EWT °C	LWT °C	FLOW (L/S)	P.D. (kPa)	MEDIUM	COLD SIDE EWT °C	LWT °C	FLOW (L/S)	P.D. (kPa)	MEDIUM	REMARKS
HEX-1	ENERGY CENTER, LOWER LEVEL	KELVION	NT02M HV 31PL	211.4	90.56	79.44	4.55	18.3	WATER	40.0	60.0	2.41	4.8	WATER	BRAZED PLATE OR PLATE & FRAME
HEX-2	SB1028 - MECH ROOM GIRD C:2	KELVION	GBS 700L-U-102	109.1	60.0	48.9	2.35	6.95	WATER	46.1	57.2	2.61	11.50	50% PG	BRAZED PLATE
HEX-FGE	ENERGY CENTER, LOWER LEVEL	COMBUSTION & ENERGY SYSTEMS LTD	CONDEX (PROPOSAL 222079)	211.4	176.7 EGT	47.2 LGT	3,667 kg/hr	0.25	FLUE GAS	40.00	60.00	2.41	41.16	WATER	EGT/LGT = ENTERING / LEAVING FLUE GAS TEMPERATURE NOTE 1, 2, 3, 4

NOTE 1: PACKAGED WATER TUBE FORCED CIRCULATION CONDENSING HEAT EXCHANGER UTILIZING BOILER FLUE GAS ON HOT SIDE....
NOTE 2: 211.4 kW RECOVERY COMPOSED OF 140.39 kW SENSIBLE HEAT AND 60.43 kW LATENT HEAT.
NOTE 3: ECONOMIZER TO ALSO BE CAPABLE OF PRODUCING 63°C LWT WITH A LOWER WATER SIDE FLOW RATE OF 2.20 L/s FOR A TOTAL OF 211.40 kW RECOVERY (148.58 kW SENSIBLE HEAT, 70.82 kW LATENT HEAT)
NOTE 4: ASSOCIATED CONTROLLER TO BE SET FOR 63°C LWT WITH THE ANTICIPATION THAT LWT MAY DROP TO 60°C UNDER HIGHER FLOW RATES.
NOTE 5: PROVIDE 2@ AXIOM NT25 CONDENSATE NEUTRALIZER PIPED IN PARALLEL ON FGE CONDENSATE DISCHARGE DRAIN LINE.

HYDRONIC UNIT & CABINET UNIT HEATER SCHEDULE

TAG No.	LOCATION	MANUF-ACTURER	MODEL No.	HEATING MEDIUM	CAPACITY (kW)	LIQUID E.W.T. (°C)	L.W.T. (°C)	FLOW (L/s)	AIRFLOW (L/S)	MOTOR (Hp)	ELEC (V/Ph/Hz)	WEIGHT (kg)	DIMENSIONS (L x H x D) (mm)	REMARKS
CUH-1	SB1001 - VESTIBULE	SIGMA	SFF-A-003	HEATING WATER	4.06	60.0	48.9	0.087	142	1/10	120/1/60	56.7	1029x660x241	
CUH-2	SB1021 - VESTIBULE	SIGMA	SFF-A-003	HEATING WATER	4.06	60.0	48.9	0.087	142	1/10	120/1/60	56.7	1029x660x241	
CUH-3	SB1031 - VESTIBULE	SIGMA	SFF-A-003	HEATING WATER	4.06	60.0	48.9	0.087	142	1/10	120/1/60	56.7	1029x660x241	
CUH-4	SB1051 - VESTIBULE	SIGMA	SFF-A-003	HEATING WATER	4.06	60.0	48.9	0.087	142	1/10	120/1/60	56.7	1029x660x241	
CUH-5	SB1004 - VESTIBULE	SIGMA	SFF-A-003	HEATING WATER	4.06	60.0	48.9	0.087	142	1/10	120/1/60	56.7	1029x660x241	
UH-1	SB1029 - VESTIBULE (MECH ROOM)	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-2	SB1031- WATER ROOM	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-3	SB1028 - MECH ROOM	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-4	SB1028 - MECH ROOM	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-5	SB1028 - MECH ROOM	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-6	SB1028 - MECH ROOM	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-7	SB1027A - RECYCLE/GARBAGE	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.
UH-8	SB1027B - LOADING DOCK	SIGMA	UHHL-160	HEATING WATER	3.69	60.0	48.9	0.082	142	1/20	120/1/60	21.8	438x343x445	TEAO (NEMA 1) MOTOR.

CONVECTOR SCHEDULE

TYPE	MANUF-ACTURER	MODEL No.	CAPACITY (W) LISTED	DERATED	TEMPERATURES (°C) EAT	EWT	LWT	HEATING MEDIUM	FLOW RATE (L/s)	CABINET (mm) HEIGHT	LENGTH	WIDTH	DESCRIPTION	REMARKS
CNV-1	SIGMA	CWS	1876	488	18.0	60.0	48.9	HEATING WATER	0.0105	813	813	165	WALL HUNG CONVECTOR, SLOPED TOP	
CNV-2	SIGMA	CWS	2843	739	18.0	60.0	48.9	HEATING WATER	0.0159	813	914	267	WALL HUNG CONVECTOR, SLOPED TOP	
CNV-3	SIGMA	CWS	2696	701	18.0	60.0	48.9	HEATING WATER	0.0151	813	1118	165	WALL HUNG CONVECTOR, SLOPED TOP	

REVERSE OSMOSIS SYSTEM SCHEDULE

TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	MAX FLOW (L/S)	DAILY FLOW (L/DAY)	MOTOR (Hp)	ELEC (V/Ph/Hz)	SIZE (LxWxH) (mm)	WEIGHT (kg)	REMARKS
RO-1	REVERSE OSMOSIS SYSTEM	SB1028 - MECH ROOM	EXCALIBUR WATER SYSTEMS	RO SFC8	0.555	35,961	1.5	208/1/60	1321x457x1626	272.2	

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Notes

F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	JH/DS	BZ	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
SCHEDULES - SHEET 1

Project No. 144214760
Scale

Revision F
Drawing No. **M700**

2024-09-27 11:23:08 AM

ORIGINAL SHEET - ISO A0

DAMPER SCHEDULE

TAG No.	MANUFACTURER	MODEL	DUTY	NORMAL POSITION	TYPE	SIZE	SYSTEM	REMARKS
CD-FC1-1	TAMCO	9000 BF ECT	OUTSIDE AIR	CLOSED	OPPOSED BLADE	450x600	F-C-1	NOTE 1
CD-FC1-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	OPPOSED BLADE	450x600	F-C-1	NOTE 1
CD-FC1-3	TAMCO	1000	RETURN AIR	OPEN	OPPOSED BLADE	450x600	F-C-1	NOTE 2
CD-FC2-1	TAMCO	9000 BF ECT	OUTSIDE AIR	CLOSED	OPPOSED BLADE	350x300	F-C-2	NOTE 1
CD-FC2-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	OPPOSED BLADE	350x300	F-C-2	NOTE 1
CD-FC2-3	TAMCO	1000	RETURN AIR	OPEN	OPPOSED BLADE	350x300	F-C-2	NOTE 2
CD-FC2-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	OPPOSED BLADE	350x300	F-C-2	NOTE 1
CD-ERV1-1	TAMCO	9000 BF ECT	OUTSIDE AIR	CLOSED	PARALLEL BLADE	1300x1350	ERV-1	NOTE 1
CD-ERV1-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	PARALLEL BLADE	1150x1500	ERV-1	NOTE 1
CD-ERV2-1	TAMCO	9000 BF ECT	OUTSIDE AIR	CLOSED	PARALLEL BLADE	1300x1350	ERV-2	NOTE 1
CD-ERV2-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	PARALLEL BLADE	1150x1500	ERV-2	NOTE 1
CD-ERV3-1	TAMCO	9000 BF ECT	OUTSIDE AIR	CLOSED	PARALLEL BLADE	400x450	HRV-3	NOTE 1
CD-ERV3-2	TAMCO	9000 BF ECT	EXHAUST AIR	CLOSED	PARALLEL BLADE	400x450	HRV-3	NOTE 1
CD-MAU-1	GREENHECK	VCD-34	OUTSIDE AIR	CLOSED	OPPOSED BLADE	300x300	MAU-1	NOTE 1, SUPPLIED WITH FAN
CD-FH-1-MUA	TAMCO	1000	SUPPLY AIR (MAU)	CLOSED	PARALLEL BLADE	300x300	MAU-1 / F-FH-1	NOTE 2
CD-FH-2-MUA	TAMCO	1000	SUPPLY AIR (MAU)	CLOSED	PARALLEL BLADE	300x300	MAU-1 / F-FH-2	NOTE 2
CD-FH-3-MUA	TAMCO	1000	SUPPLY AIR (MAU)	CLOSED	PARALLEL BLADE	300x300	MAU-1 / F-FH-3	NOTE 2
CD-FE1-1	TAMCO	1000	RETURN AIR	OPEN	PARALLEL BLADE	300x300	F-E-1	NOTE 2
CD-FE1-2	GREENHECK	VCD-34	EXHAUST AIR	CLOSED	OPPOSED BLADE	250x250	F-E-1	NOTE 1, SUPPLIED WITH FAN
CD-FE2-1	TAMCO	1000	RETURN AIR	OPEN	PARALLEL BLADE	150x150	F-E-2	NOTE 2
CD-FE2-2	GREENHECK	VCD-34	EXHAUST AIR	CLOSED	OPPOSED BLADE	250x250	F-E-2	NOTE 1, SUPPLIED WITH FAN
BDD-1	TAMCO	7000 CW	RETURN AIR	N/A	BACKDRAFT	800x800	R/A(E) WEST TO ERV-1/2	COUNTERWEIGHTED BDD, SET FOR 5 Pa OPENING PRESSURE
BDD-2	TAMCO	7000 CW	RETURN AIR	N/A	BACKDRAFT	450x450	R/A(E) EAST TO ERV-1/2	COUNTERWEIGHTED BDD, SET FOR 5 Pa OPENING PRESSURE
BDD-3	TAMCO	7000 CW	EXHAUST AIR	N/A	BACKDRAFT	400x400	E/A(W) TO ERV-1/2	COUNTERWEIGHTED BDD, SET FOR 5 Pa OPENING PRESSURE
CVR-1	ALDES	CAR3-L4-R4	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	100Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.
CVR-2	ALDES	CAR3-L4-R4	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	100Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.
CVR-3	ALDES	CAR3-L4-R4	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	100Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.
CVR-4	ALDES	CAR3-L6-R6	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	150Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.
CVR-5	ALDES	CAR3-L6-R6	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	150Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.
CVR-6	ALDES	CAR3-L6-R6	SUPPLY AIR (ERV)	N/A	CONSTANT AIRFLOW REGULATOR	150Ø	ERV S/A	PRESSURE INDEPENDENT AUTOMATIC BALANCING DAMPER, AIRFLOW ADJUSTABLE WITHIN SET RANGE. SEE DRAWING NOTE FOR AIRFLOW SETPOINT.

NOTE 1: THERMALLY INSULATED, THERMAL BROKEN FRAME, EXTRUDED ALUMINUM FRAME AND BLADES, BLADE AND JAMB SEAL

NOTE 2: EXTRUDED ALUMINUM FRAME AND BLADES, BLADE AND JAMB SEAL

GRILLE, DIFFUSER, AND LOUVER SCHEDULE

TAG No.	MANUF-ACTURER	MODEL No.	SIZE	SERVICE	DESCRIPTION	FINISH	REMARKS
S-1	PRICE	520	SEE DRAWINGS	SUPPLY AIR	LOUVERED STEEL SUPPLY GRILLE	PC12	FIELD PAINTED TO MATCH SURROUNDING SURFACE 'C/W OPPOSED BLADE BALANCE DAMPER
S-2	PRICE	TBD875, 1 SLOT	1219 LENGTH, INLET PER DRAWINGS	SUPPLY AIR	T-BAR SLOT SUPPLY DIFFUSER, SLOPED SHOULDER PLENUM	B12	
S-3	PRICE	TBD875, 2 SLOT	1219 LENGTH, INLET PER DRAWINGS	SUPPLY AIR	T-BAR SLOT SUPPLY DIFFUSER, SLOPED SHOULDER PLENUM	B12	
S-4	PRICE	PDMC	610x610	SUPPLY AIR	PERORATED FACE SUPPLY DIFFUSER WITH ROTATABLE MODULAR CORES	B12	
S-5	PRICE	SDS100, TYPE 16	914x92	SUPPLY AIR	LINEAR SLOT DIFFUSER, SPIRAL DUCT MOUNT	B17 (BLACK)	2 SLOTS, 25mm SLOT WIDTH
S-6	PRICE	TBD375, 2 SLOT	1219 LENGTH, INLET PER DRAWINGS	SUPPLY AIR	T-BAR SLOT SUPPLY DIFFUSER, SQUARE SHOULDER PLENUM	B12	
S-7	PRICE	SDS75, TYPE 3	610x324	SUPPLY AIR	LINEAR SLOT DIFFUSER, DUCT MOUNT	B17 (BLACK)	8 SLOTS, 19mm SLOT WIDTH
R-1	PRICE	510Z	SEE DRAWINGS	RETURN AIR	LOUVERED STEEL RETURN GRILLE	PC12	FIELD PAINTED TO MATCH SURROUNDING SURFACE. 'FOR ERV-3 SYSTEM ONLY: C/W OPPOSED BLADE BALANCE DAMPER
R-2	PRICE	PDDR	610x610	RETURN AIR	PERFORATED FACE RETURN DIFFUSER	B12	
R-3	PRICE	PDDR	305x305	RETURN AIR	PERFORATED FACE RETURN DIFFUSER	B12	
T-1	PRICE	510Z	SEE DRAWINGS	TRANSFER AIR	LOUVERED STEEL RETURN GRILLE	PC12	FIELD PAINTED TO MATCH SURROUNDING SURFACE.
T-2	PRICE	PDDR	610x610	TRANSFER AIR	PERFORATED FACE RETURN DIFFUSER	B12	
T-3	PRICE	PDDR	610x305	TRANSFER AIR	PERFORATED FACE RETURN DIFFUSER	B12	
T-4	PRICE	PDMC	610x610	TRANSFER AIR	PERORATED FACE SUPPLY DIFFUSER WITH ROTATABLE MODULAR CORES	B12	
E-1	PRICE	80	SEE DRAWINGS	EXHAUST AIR	EGG CRATE GRILL	B12	C/W VCS3 DAMPER
LV-1	PRICE	DE365	AS INDICATED	AS INDICATED	FIXED BLADE DRAINABLE LOUVER	SEE REMARKS	FIXED BLADE LOUVER, ALUMINUM FRAME AND BLADES, BIRD SCREEN LOUVER TO BE PROVIDED WITH FACTORY APPLIED BAKED ENAMEL FINISH, COLOR TO MATCH EXTERIOR CLADDING SURROUNDING LOUVER.

FAN SCHEDULE

TAG No.	SERVICE	LOCATION	MANUF-ACTURER	MODEL	AIR FLOW (L/s)	ESP (Pa)	MOTOR (HP)	FAN RPM	ELECTRICAL (V/Ph/Hz)	MOUNTING ARR'GT	TYPE	WEIGHT (kg)	REMARKS
F-FGE	FLUE GAS	ENERGY CENTER - UPPER LEVEL	NORTHERN BLOWER	SEE NOTES	2360	1500	20	--	600/3/60	BLOWER	CENTRIFUGAL	--	NOTE 1
F-FH-1	FUME HOOD EXHAUST	ROOF NEAR GL B:4 (SB1032)	GREENHECK	VEKTOR-H-12	286	130	1/2	1770	208/3/60	ON ROOF	LAB EXHAUST	195	NOTE 2,3
F-FH-2	FUME HOOD EXHAUST	ROOF NEAR GL B:5 (SB1026)	GREENHECK	VEKTOR-H-12	286	130	1/2	1770	208/3/60	ON ROOF	LAB EXHAUST	195	NOTE 2,3
F-FH-3	FUME HOOD EXHAUST	ROOF NEAR GL D:3-4 (SB1025)	GREENHECK	VEKTOR-H-12	286	130	1/2	1770	208/3/60	ON ROOF	LAB EXHAUST	195	NOTE 2,3
F-FH-4	CHEMICAL STORAGE EXHAUST	SB1032 IN CEILING SPACE ON S WALL (NEAR GL B:5)	PLASTEC	PLASTEC P15-6	35	200	1/4	1140	120/1/60	BLOWER	CENTRIFUGAL	7.8	CW ORIENTATION, NOTE 4 OPERATES CONTINUOUSLY
F-FH-5	SNORKEL EXHAUST FAN	SB1039 IN CEILING SPACE ON E WALL (NEAR GL D:5)	PLASTEC	STORM S12-4	40	306	1/3	1725	120/1/60	BLOWER	CENTRIFUGAL	7.8	CCW ORIENTATION, NOTE 4, 5, 6
F-MAU-1	FUME HOOD MAKE-UP AIR FAN	ROOF ABOVE SW CORNER OF SB1026 - WET LAB (CHEM)	GREENHECK	KSQ-9-M1-VG	550	94	1	2044	208/1/60	MIXED FLOW	CENTRIFUGAL	61	NOTE 8
F-C-1	COOLING FAN	SB1028 - MECH ROOM	GREENHECK	SQ-100-VG	350	128	1/4	1372	120/1/60	INLINE	CENTRIFUGAL	40	C/W VARIABLE SPEED ECM MOTOR, INLET FILTER BOX WITH MERV8 FILTER
F-C-2	COOLING FAN	SB1031 - WATER ROOM	GREENHECK	SQ-80-VG	80	125	1/10	1561	120/1/60	INLINE	CENTRIFUGAL	37	C/W VARIABLE SPEED ECM MOTOR, INLET FILTER BOX WITH MERV8 FILTER
F-E-1	EXHAUST FAN	ROOF NEAR GL J-L:3-4 (SB1009)	GREENHECK	CUE-80-VG	100	125	1/10	1573	120/1/60	ROOF UPBLAST	CENTRIFUGAL	32	NOTE 7, FOR SMUDGING EXHAUST FROM SB1009 - CEREMONY ROOM
F-E-2	EXHAUST FAN	ROOF NEAR GL L:1-1.1 (SB1012)	GREENHECK	CUE-80-VG	100	125	1/10	1573	120/1/60	ROOF UPBLAST	CENTRIFUGAL	32	NOTE 7, FOR SMUDGING EXHAUST FROM SB1012 - KNOWLEDGE SHARING SPACE

NOTE 1: SUPPLIED AS PART OF ECONOMIZER (HEX-FGE) PACKAGE. FAN TO BE C/W VFD DRIVE AND MOTOR.

NOTE 2: VFD DIRECT DRIVE MOTOR, TEFC MOTOR ENCLOSURE, BYPASS AIR PLENUM WITH INLET SCREEN AND CONTROL DAMPER, MOTORIZED ISOLATION DAMPER. SPARK B SPARK RESISTANT CONSTRUCTION. WITH MODULATING CONTROLLER FOR BYPASS DAMPER. HIGH VELOCITY CONICAL DISCHARGE NOZZLE. INTERLOCKED WITH ASSOCIATED FUME HOOD AIRFLOW MONITOR/CONTROLLER, ASSOCIATED MAKE-UP AIR CONTROL DAMPER (CD-MAU1-1/2/3), AND WITH MAKE-UP AIR UNIT MAU-1.

NOTE 3: AIRFLOW AND ESP TO BE CONFIRMED WITH REQUIREMENTS OF DUCTED FUME HOODS SUPPLIED FOR PROJECT.

NOTE 4: C/W LOCAL DISCONNECT SWITCH FOR SERVICING, MOUNTING BRACKET SUITABLE FOR WALL MOUNTING (MODEL MB15), NEOPRENE VIBRATION ISOLATORS (MODEL VI4x SERIES), FLEXIBLE PVC REDUCER/COUPLING FOR INLET AND OUTLET CONNECTIONS (MODEL 156 SERIES)

NOTE 5: AIRFLOW AND ESP TO BE CONFIRMED WITH REQUIREMENTS OF FUME EXTRATION ARM SUPPLIED FOR PROJECT.

NOTE 6: C/W NEDERMAN FX2-CHEM-D75-L1000-UP-PLUS FUME EXTRACTION ARM WITH WALL BRACKET KIT, CEILING COVER PLATE, AND METAL HOOD.

NOTE 7: C/W VARIABLE SPEED ECM MOTOR, 300mm ROOF CURB WITH DAMPER TRAY, AND INSULATED CONTROL DAMPER (SEE MOTORIZED DAMPER SCHEDULE, CD-FE1-2 OR CD-FE2-2) AT FAN INLET.

NOTE 8: C/W VARIABLE SPEED ECM MOTOR, HORIZONTAL INLET HOOD WITH 25mm WASHABLE ALUMINUM FILTER, BOTTOM (THROUGH ROOF) DISCHARGE, 300mm ROOF CURB WITH DAMPER TRAY, AND INSULATED CONTROL DAMPER (SEE MOTORIZED DAMPER SCHEDULE, CD-MUA-1) AT FAN DISCHARGE

HEATING AND COOLING COIL SCHEDULE

TAG No.	LOCATION	MANUF-ACTURER	MODEL	SIZE	CAPACITY (KW)	AIR FLOW (L/S)	AIR P.D (PA)	AIR EAT °C (WET BULB)	AIR EAT °C (DRY BULB)	AIR LAT °C (WET BULB)	AIR LAT °C (DRY BULB)	FLUID	FLUID FLOW (L/S)	FLUID P.D (m)	FLUID EWT °C	FLUID LWT °C	REMARKS
PHC-1	SB1028 - ERV-1 O/A INLET	TRANE	D5WB36040G0AA080B	800x800	8.6	2400	MAX 25	-	-43.0	-	-40.0	50% PG	0.206	MAX 1.0	57.2	46.1	HORIZONTAL COIL
RHC-1	SB1028 - ERV-1 S/A DISCHARGE	TRANE	D5WB36040G0AA080B	900x1000	24.5	2400	MAX 25	-	7.5	-	16.0	50% PG	0.586	MAX 1.0	57.22	46.11	HORIZONTAL COIL
PHC-2	SB1028 - ERV-2 O/A INLET	TRANE	D5WB36040G0AA080B	800x800	8.6	2400	MAX 25	-	-43.0	-	-40.0	50% PG	0.206	MAX 1.0	57.22	46.11	
RHC-2	SB1028 - ERV-2 S/A DISCHARGE	TRANE	D5WB36040G0AA080B	900x1000	24.5	2400	MAX 25	-	7.5	-	16.0	50% PG	0.586	MAX 1.0	57.22	46.11	
RHC-3	SB1028 - ERV-3 S/A DISCHARGE	TRANE	D5WB1212G0AA080B	300x300	2.6	175	MAX 25	-	24.1	-	16.0	50% PG	0.062	MAX 1.0	57.22	46.11	
HC-MAU-1	SB1026 CEILING SPACE, SE CORNER	TRANE	D5WB1816G0AA080B	450x400	40.3	550	MAX 25	-	-43.0	-	16.0	50% PG	0.964	MAX 1.0	57.22	46.11	HORIZONTAL COIL

ENERGY & HEAT RECOVERY UNIT SCHEDULE

TAG No.	LOCATION	MANUF-ACTURER	MODEL No.	SUPPLY FAN AIRFLOW (L/s)	SUPPLY FAN E.S.P. (Pa)	SF MOTOR (Hp)	RETURN FAN AIRFLOW (L/s)	RETURN FAN E.S.P. (Pa)	RF MOTOR (Hp)	O/A EAT (°C)	S/A LAT (°C)	R/A EAT (°C)	E/A LAT (°C)	HEAT REC-OVERED (kW)	RECOVERY EFFECT-IVENESS (%)	PRE-FILTER	FINAL FILTER	SOUND (dBa)	POWER MCA	POWER MOP	ELEC (V/Ph/Hz)	DIMENSIONS (LxWxH) (mm)	WEIGHT (kg)	REMARKS
ERV-1	SB1028 - MECH ROOM	BOUSQUET	SBE-60	2400	406	7.5	2240	430	5	-40.0	10.3	20.0	-30.3	145.0	90	MERV8	MERV13	54.9	17	30	600/3/60	4345x2224x2090	2610.5	ALTERNATING CORE TYPE UNIT. UNIT HAS AN EXTERNAL PRE-HEAT COIL TO TEMPER OA TO -39°C
ERV-2	SB1028 - MECH ROOM	BOUSQUET	SBE-60	2400	406	7.5	2240	430	5	-40.0	10.3	20.0	-30.3	145.0	90	MERV8	MERV13	54.9	17	30	600/3/60	4345x2224x2090	2610.5	ALTERNATING CORE TYPE UNIT. UNIT HAS AN EXTERNAL PRE-HEAT COIL TO TEMPER OA TO -39°C
ERV-3	SB1028 - MECH ROOM	SOLUTION AIR	PRCLC375	180	125	300 W	168	125	300 W	-43.0	5.4	16.0	-32.4	10.3	88	MERV8	MERV13	--	3	15	208/1/60	1016x623x1930	390.1	ALTERNATING CORE TYPE UNIT

FAN COIL SCHEDULE

TAG No.	LOCATION	SERVES	MANUF-ACTURER	MODEL	SIZE	O/A TYPE (NOTE 1)	O/A INLET	S/A FLOW (L/s)	S/A ESP (Pa)	O/A FLOW MIN (L/s)	O/A FLOW MAX (L/s)	HTG CAP (kW)	HTG ROWS	HTG AIR EAT (°C)	HTG AIR LAT (°C)	HTG MEDIA	HTG FLOW (L/s)	HTG PD (kPa)	HTG EWT (°C)	HTG LWT (°C)	CLG CAP TOTAL (kW)	CLG CAP SENSIBLE (kW)	CLG ROWS	CLG EAT	CLG EAT (wB)	CLG LAT	CLG LAT (wB)	CLG MEDIA	CLG FLOW (L/s)	CLG PD (kPa)	CLG EWT (°C)	CLG LWT (°C)	FILTER	SOUND POWER RADIATED (OCTAVE BAND 2,3,4,5,6,7)	SOUND POWER DISCHARGE	CO2 CONTROL	MOTOR (HP)	ELEC (V/Ph/Hz)	REMARKS
FCU-1	SB1012, NE CORNER	SB1002 - LECTURE HALL	PRICE	FCGH	70	VAV	N/A	850	125	N/A	N/A	7.84	1	16.20	24.30	WATER	0.126	0.580	60.00	48.89	7.36	7.33	6	24.00	16.70	16.20	12.40	50% PG	0.269	17.180	6.00	13.50	MERV8	77 70 70 69 61 54	76 73 72 71 67 64	YES	3/4 x2	208/1/60	NOTE(S) 2, 3
FCU-2	SB1004	SB1003 - LOUNGE/EVENT SPACE	PRICE	FCGH	70	VAV	N/A	820	125	N/A	N/A	9.33	1	17.30	27.40	WATER	0.189	1.190	60.00	48.89	10.81	10.78	6	24.00	16.70	12.10	10.40	50% PG	0.483	69.400	6.00	12.10	MERV8	77 70 69 69 60 53	75 72 71 71 66 63	YES	3/4 x2	208/1/60	NOTE(S) 2, 3
FCU-3	SB1015, SW CORNER	SB-1H001/2/3 - CORRIDOR, SB1011 - WELCOME/ADMIN	PRICE	FCGH	60	INT	FAI-6	620	125	31	121	3.03	1	19.20	23.60	WATER	0.042	0.070	60.00	48.89	7.97	7.94	6	24.00	16.70	12.40	10.60	50% PG	0.384	47.350	6.00	11.70	MERV8	74 70 68 68 60 52	74 72 70 71 66 62	YES	1/2 x2	208/1/60	NOTE(S) 2
FCU-4	SB1012, W SIDE	SB1012 - KNOWLEDGE SHARING MAKER SPACE	PRICE	FCGH	20	INT	FAI-6	160	125	31	84	1.59	1	17.90	26.60	WATER	0.032	0.140	60.00	48.89	2.25	2.02	6	24.00	16.70	12.60	10.30	50% PG	0.200	18.480	6.00	9.10	MERV8	69 64 62 63 54 45	77 70 66 65 59 51	YES	1/3	120/1/60	NOTE(S) 2
FCU-5	SB1017	SB1017 - CLASSROOM/MULTI-PURPOSE RM - SMALL	PRICE	FCGH	40	INT	FAI-6	300	125	58	211	2.89	1	17.20	25.70	WATER	0.057	0.080	60.00	48.89	3.76	3.73	6	24.00	16.70	12.80	10.80	50% PG	0.254	21.860	6.00	10.00	MERV8	69 66 63 64 56 48	70 68 65 65 61 56	YES	1/2	120/1/60	NOTE(S) 2
FCU-6	SB1019	SB1017 - CLASSROOM/MULTI-PURPOSE RM - LARGE	PRICE	FCGH	40	INT	FAI-8	340	125	58	274	3.34	1	16.80	25.50	WATER	0.070	0.690	60.00	48.89	4.57	4.43	6	24.00	16.70	12.20	10.40	50% PG	0.362	31.200	6.00	9.50	MERV8	71 67 64 66 58 50	72 69 67 67 63 58	YES	1/2	120/1/60	NOTE(S) 2
FCU-7	SB1018	SB1018 - CLASSROOM/MULTI-PURPOSE RM - SMALL	PRICE	FCGH	40	INT	FAI-6	360	125	58	211	2.66	1	17.70	24.20	WATER	0.045	0.060	60.00	48.89	4.61	4.57	6	24.00	16.70	12.50	10.60	50% PG	0.340	29.280	6.00	9.70	MERV8	72 68 65 67 59 51	73 70 68 68 64 60	YES	1/2	120/1/60	NOTE(S) 2
FCU-8	SB1016	SB1016 - CLASSROOM/MULTI-PURPOSE RM - SMALL	PRICE	FCGH	40	INT	FAI-6	280	125	31	150	2.34	1	17.90	25.30	WATER	0.042	0.060	60.00	48.89	3.87	3.65	6	24.00	16.70	12.20	10.20	50% PG	0.294	25.290	6.00	9.60	MERV8	69 65 62 64 55 46	70 67 64 64 60 55	YES	1/2	120/1/60	NOTE(S) 2
FCU-9	SB1005	SB1009 - CEREMONY ROOM	PRICE	FCGH	30	INT	FAI-6	200	125	31	133	1.65	1	17.30	24.60	WATER	0.030	0.030	60.00	48.89	2.44	2.41	6	24.00	16.70	13.10	11.10	50% PG	0.187	17.270	6.00	9.60	MERV8	71 68 66 65 57 49	74 72 68 68 63 57	YES	1/2	120/1/60	NOTE(S) 2
(FCU-10)	*NOT USED*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*NOT USED*
FCU-11	SB1055	SB1053 - KNOWLEDGE SHARING MAKER SPACE	PRICE	FCGH	20	INT	FAI-6	105	125	31	95	1.46	1	16.40	28.60	WATER	0.036	0.160	60.00	48.89	1.71	1.36	6	24.00	16.70	12.30	9.40	50% PG	0.170	15.720	6.00	8.80	MERV8	67 62 60 59 51 42	75 68 63 62 55 47	YES	1/3	120/1/60	NOTE(S) 2
FCU-12	SB1026, NW CORNER	SB1026 - WET LAB - CHEMISTRY	PRICE	FCGH	60	INT	FAI-8	600	125	99	310	3.65	1	17.90	23.40	WATER	0.052	0.090	60.00	48.89	7.86	7.83	6	24.00	16.70	12.20	10.50	50% PG	0.388	47.810	6.00	11.50	MERV8	73 70 68 68 60 52	73 71 70 71 66 61	YES	1/2 x2	208/1/60	NOTE(S) 2
FCU-13	SB1034, SW CORNER	SB1034 - WET LAB - BIOLOGY	PRICE	FCGH	60	INT	FAI-8	600	125	99	310	4.07	1	17.90	24.00	WATER	0.060	0.100	60.00	48.89	7.68	7.65	6	24.00	16.70	12.50	10.60	50% PG	0.363	44.720	6.00	11.80	MERV8	73 70 68 68 60 52	73 71 70 71 66 61	YES	1/2 x2	208/1/60	NOTE(S) 2
FCU-14	SB1041, SW CORNER	SB1041 - DRY LAB	PRICE	FCGH	50	INT	FAI-8	540	125	89	296	3.67	1	17.80	23.80	WATER	0.057	0.140	60.00	48.89	7.11	6.97	4	24.00	16.70	12.30	10.50	50% PG	0.881	90.650	6.00	8.20	MERV8	74 71 68 69 62 54	75 75 71 72 68 64	YES	1/2 x2	208/1/60	NOTE(S) 2
FCU-15	SB1022, SW CORNER	SB1022 - DRY LAB	PRICE	FCGH	50	INT	FAI-8	540	125	87	293	3.60	1	17.80	23.80	WATER	0.056	0.130	60.00	48.89	6.80	6.77	4	24.00	16.70	12.70	10.70	50% PG	0.748	76.730	6.00	8.50	MERV8	74 71 68 69 62 54	75 75 71 72 68 64	YES	1/2 x2	208/1/60	NOTE(S) 2
FCU-16	SB1025, S SIDE	SB1025 - RESEARCH & MULTI-USE LAB	PRICE	FCGH	40	INT	FAI-6	380	125	64	184	2.65	1	18.10	24.30	WATER	0.045	0.060	60.00	48.89	4.98	4.91	6	24.00	16.70	12.30	10.50	50% PG	0.395	34.060	6.00	9.40	MERV8	72 69 65 67 59 52	74 71 68 69 65 61	YES	1/2	120/1/60	NOTE(S) 2
FCU-17	SB1032, W SIDE	SB1032 - WET PREPARATION ROOM	PRICE	FCGH	40	INT	FAI-6	300	125	37	75	1.54	1	19.00	23.50	WATER	0.022	0.030	60.00	48.89	3.96	3.82	6	24.00	16.70	12.50	10.50	50% PG	0.282	24.270	6.00	9.80	MERV8	69 66 63 64 56 48	70 68 65 65 61 56	YES	1/2	120/1/60	NOTE(S) 2
FCU-18	SB1054, W SIDE	SB1054- DRY PREPARATION ROOM	PRICE	FCGH	20	INT	FAI-4	170	125	22	44	0.87	1	19.00	23.40	WATER	0.012	0.030	60.00	48.89	2.37	2.15	6	24.00	16.70	12.60	10.30	50% PG	0.212	19.630	6.00	9.10	MERV8	69 65 63 64 55 45	77 70 66 66 59 52	YES	1/3	120/1/60	NOTE(S) 2
FCU-19	SB1039, CENTER	SB1039 - INSTRUMENTS LAB	PRICE	FCGH	30	INT	FAI-4	225	125	28	68	1.17	1	18.80	23.30	WATER	0.017	0.040	60.00	48.89	3.00	2.85	6	24.00	16.70	12.60	10.50	50% PG	0.280	25.960	6.00	8.90	MERV8	72 69 67 66 59 50	75 73 69 69 65 60	YES	1/2	120/1/60	NOTE(S) 2
FCU-20	SB1024	SB1023 - SPECIMEN WORKSHOP/LAB, SB1024 - COLLECTION STORAGE SPACE	PRICE	FCGH	30	INT	FAI-4	195	125	22	58	1.08	1	18.80	23.60	WATER	0.016	0.040	60.00	48.89	2.63	2.45	6	24.00	16.70	12.60	10.50	50% PG	0.233	21.590	6.00	9.10	MERV8	73 69 66 68 60 53	74 72 69 70 66 62	YES	1/2	120/1/60	NOTE(S) 2
(FCU-21)	*NOT USED*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*NOT USED*
FCU-22	SB1051	SB1050 & SB1042 - STUDENT & STAFF WORK ZONE	PRICE	FCGH	60	CVR	N/A	630	125	N/A	N/A	4.19	1	19.60	25.60	WATER	0.066	0.180	60.00	48.89	7.98	7.95	6	24.00	16.70	12.60	10.70	50% PG	0.377	46.440	6.00	11.80	MERV8	74 71 68 68 60 52	74 72 70 71 67 62	YES	1/2 x2	208/1/60	NOTE(S) 2, 3
FCU-23	SB1035	SB1033 - STUDENT & STAFF WORK ZONE	PRICE	FCGH	40	CVR	N/A	400	125	N/A	N/A	2.20	1	19.40	24.30	WATER	0.035	0.050	60.00	48.89	5.09	5.06	6	24.00	16.70	12.60	10.70	50% PG	0.390	33.670	6.00	9.60	MERV8	73 69 66 68 60 53	74 72 69 70 66 62	YES	1/2	120/1/60	NOTE(S) 2, 3
FCU-24	SB1028, ABOVE ERV-2	SB1H005 - CORRIDOR	PRICE	FCGH	50	CVR	N/A	560	125	N/A	N/A	5.20	1	19.40	27.70	WATER	0.114	0.460	60.00	48.89	7.40	7.26	4	24.00	16.70	12.30	10.40	50% PG	0.957	98.650	6.00	8.10	MERV8	75 71 69 69 62 55	75 75 72 73 68 65	N/A	1/2 x2	208/1/60	NOTE(S) 2, 3
FCU-25	SB1049	SB1044,SB1045, SB1049 - OFFICE	PRICE	FCGH	40	INT	FAI-4	360	125	22	29	3.80	1	19.70	26.20	WATER	0.083	0.070	60.00	48.89	4.63	4.58	6	24.00	16.70	12.50	10.60	50% PG	0.296	29.600	6.00	9.70	MERV8	72 68 65 67 59 51	73 70 68 68 64 60	YES	1/2	120/1/60	NOTE(S) 2
FCU-26	SB1040	SB1037, SB1038, SB1040 - OFFICE	PRICE	FCGH	40	INT	FAI-4	360	125	22	29	3.80	1	19.70	26.20	WATER	0.083	0.070	60.00	48.89	4.63	4.58	6	24.00	16.70	12.50	10.60	50% PG	0.296	29.600	6.00	9.70	MERV8	72 68 65 67 59 51	73 70 68 68 64 60	YES	1/2	120/1/60	NOTE(S) 2
FCU-27	SB1036	SB1035, SB1036 - OFFICE	PRICE	FCGH	30	INT	FAI-4	240	125	15	25	1.76	1	19.70	26.20	WATER	0.038	0.070	60.00	48.89	3.07	3.03	6	24.00	16.70	12.50	10.60	50% PG	0.088	3.410	6.00	14.20	MERV8	72 70 68 68 61 52	76 74 71 71 67 63	N/A	1/2	120/1/60	NOTE(S) 2
FCU-28	SB1030	SB1030 - ELECTRICAL ROOM	PRICE	FCGH	30	CVR	N/A	300	125	N/A	N/A	0.47	1	19.90	21.20	WATER	0.005	0.010	60.00	48.89	0.76	0.73	3	24.00	16.70	21.80	15.10	50% PG	0.025	3.410	6.00	14.20	MERV8	72 70 68 68 61 52	76 74 71 71 67 63	N/A	1/2	120/1/60	NOTE(S) 2, 3
FCU-29	SB1057	SB1057 - NETWORK & SECURITY RM	PRICE	FCGH	20	CVR	N/A	100	125	N/A	N/A	0.32	1	19.70	22.60	WATER	0.004	0.000	60.00	48.89	1.50	1.43	6	24.00	16.70	11.50	10.40	50% PG	0.168	15.000	6.00	8.90	MERV8	67 62 60 59 50 41	74 67 63 61 55 47	N/A	1/3	120/1/60	NOTE(S) 2, 3
FCU-32	SB1041, SE CORNER	SB1H007 - CORRIDOR	PRICE	FCGH	50	N/A	N/A	480	125	N/A	N/A	2.15	1	19.50	23.60	WATER	0.030	0.040	60.00	48.89	6.27	6.24	6	24.00	16.70	12.30	10.50	50% PG	0.357	48.900	6.00	10.80	MERV8	74 70 68 68 61 53	74 74 70 71 67 63	N/A	1/2 x2	208/1/60	NOTE(S) 2, 3
FCU-33	SB1034, SW CORNER	SB1H008 - CORRIDOR, SB1033 - STUDENT & STAFF WORK ZONE	PRICE	FCGH	60	N/A	N/A	600	125	N/A	N/A	6.34	1	19.80	29.30	WATER	0.143	0.690	60.00	48.89	7.81	7.78	6	24.00	16.70	12.30	10.50	50% PG	0.381	46.950	6.00	11.60	MERV8	73 70 68 68 60 52	73 71 70 71 66 61	N/A	1/2 x2	208/1/60	NOTE(S) 2, 3

NOTE 1: O/A CONNECTION TYPES ARE 1) INT = INTEGRAL, 2) VAV = EXTERNAL TO FCU VIA A VAV BOX, 3) CVR = EXTERNAL TO FCU VIA A CONSTANT VOLUME REGULATOR DAMPER, 4) N/A = NO OUTSIDE AIR CONNECTION

NOTE 2: ACCESSORIES: DDC CONTROLLER

NOTE 3: NO DIRECT OUTSIDE AIR CONNECTION. WHERE REQUIRED, O/A PROVIDED BY SEPARATE VAV BOX OR CVR

VAV BOX SCHEDULE

TAG No.	LOCATION	SERVES	SERVICE	MANUF-ACTURER	MODEL	SIZE	AIR FLOW MIN (L/s)	AIR FLOW MAX (L/s)	DISCHARGE 2	DISCHARGE 3	DISCHARGE 4	DISCHARGE 5	DISCHARGE 6	DISCHARGE 7	RADIATED 2	RADIATED 3	RADIATED 4	RADIATED 5	RADIATED 6	RADIATED 7	CO2 CONTROL	REMARKS
VAV-S-1	SB1012	FCU-1	SUPPLY	PRICE	SDV5000	10	100	814	69	58	53	48	37	37	56	48	44	38	33	26	YES	NOTE 1
VAV-S-2	SB1005	FCU-2	SUPPLY	PRICE	SDV5000	9	76	552	66	57	51	46	34	29	61	52	45	39	32	38	YES	NOTE 1
VAV-E-1	SB1012	BUILDING EAST OF GRID G	EXHAUST	PRICE	SDE5000	12	142	850	69	60	51	45	43	41	57	47	45	34	28	-	NO	NOTE 2
VAV-E-12	SB1026	P1026 - WET LAB - CHEMISTRY	EXHAUST	PRICE	SDE5000	10	110	658	71	61	52	42	40	41	59	47	43	34	22	-	NO	NOTE 2
VAV-E-13	SB1034	P1034 - WET LAB - BIOLOGY	EXHAUST	PRICE	SDE5000	10	110	658	71	61	52	42	40	41	59	47	43	34	22	-	NO	NOTE 2
VAV-E-14	SB1041	P1041 - DRY LAB	EXHAUST	PRICE	SDE5000	10	104	593	70	60	51	41	39	39	59	47	43	34	22	-	NO	NOTE 2
VAV-E-15	SB1022	P1022 - DRY LAB	EXHAUST	PRICE	SDE5000	10	104	582	70	60	51	41	39	39	59	47	43	34	22	-	NO	NOTE 2
VAV-E-16	SB1025	P1025 - RESEARCH & MULTI-USE LAB	EXHAUST	PRICE	SDE5000	9	80	429	69	58	50	41	37	38	60	49	43	36	23	-	NO	NOTE 2
VAV-E-17	SB1032	P1032 - WET PREPARATION ROOM	EXHAUST	PRICE	SDE5000	7	47	249	66	57	50	40	37	35	60	49	43	36	23	-	NO	NOTE 2
VAV-E-18	SB1054	P1054- DRY PREPARATION ROOM	EXHAUST	PRICE	SDE5000	5	26	142	66	51	43	35	30	33	60	46	38	29	-	-	NO	NOTE 2
VAV-E-19	SB1039	P1039 - INSTRUMENTS LAB	EXHAUST	PRICE	SDE5000	6	33	190	72	58	50	38	33	32	59	45	37	28	-	-	NO	NOTE 2
VAV-E-20	SB1023	P1023 - SPECIMEN WORKSHOP/LAB, P1024 - COLLECTION STORAGE SPACE	EXHAUST	PRICE	SDE5000	5	26	118	65	50	42	34	29	33	58	44	36	28	-	-	NO	NOTE 2

SOUND POWER LEVEL Lw dB re 10^{-12} W @ 125 Pa

NOTE 1: ACCESSORIES: 914mm SOUND ATTENUATOR ON OUTLET C/W FC LINER, DDC CONTROLLER

NOTE 2: ACCESSORIES: 914mm SOUND ATTENUATOR ON INLET C/W FC LINER, DDC CONTROLLER

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Notes

		By	Appd	YYYY.MM.DD
F	RE-ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
B	ISSUED FOR 75% REVIEW	B.ZRUM	B.ZRUM	2023.01.23
A	ISSUED FOR DESIGN DEVELOPMENT	B.ZRUM	B.ZRUM	2022.12.16

Issued & Revision

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	JH/DS	BZ	RM	2024.03.11

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

Client/Project
Yukon University
Polaris Project

Title
SCHEDULES - SHEET 2

Project No. 144214760

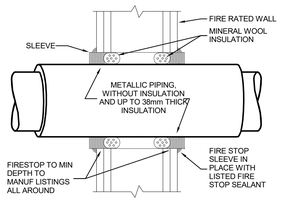
Scale

Revision F

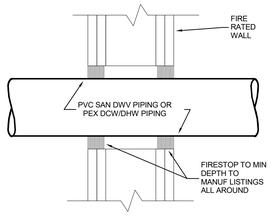
Drawing No. **M701**

ORIGINAL SHEET - ISO A0

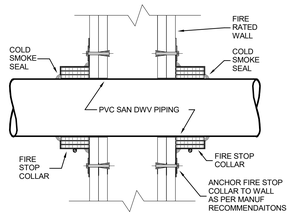
2024-09-27 11:23:12 AM



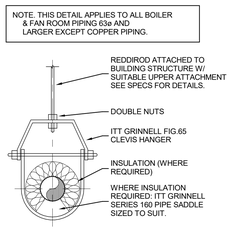
1 M800 — PIPE FIRE STOP DETAIL: METALLIC WITH OR WITHOUT INSULATION — NTS



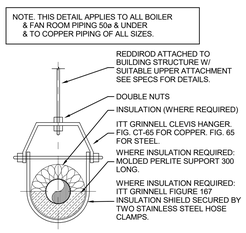
2 M800 — PIPE FIRE STOP DETAIL: PLASTIC 50Ø AND SMALLER — NTS



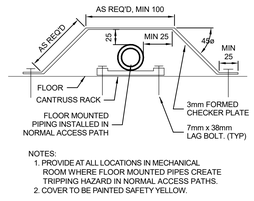
3 M800 — PIPE FIRE STOP DETAIL: PLASTIC 65Ø AND LARGER — NTS



4 M800 — STANDARD PIPE HANGER DETAIL: TYPE 2 — NTS

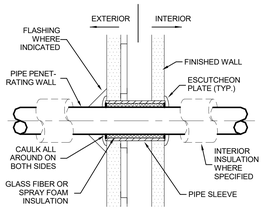


5 M800 — STANDARD PIPE HANGER DETAIL: TYPE 1 — NTS

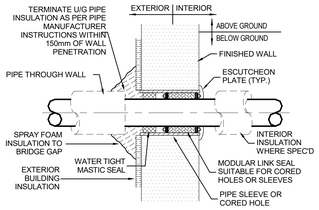


NOTES:
1. PROVIDE AT ALL LOCATIONS IN MECHANICAL ROOM WHERE FLOOR MOUNTED PIPES CREATE TRIPPING HAZARD IN NORMAL ACCESS PATHS.
2. COVER TO BE PAINTED SAFETY YELLOW.

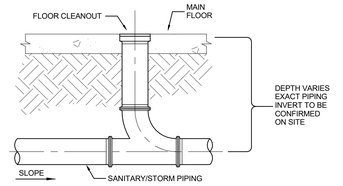
6 M800 — FLOOR MOUNTED PIPE COVER DETAIL — NTS



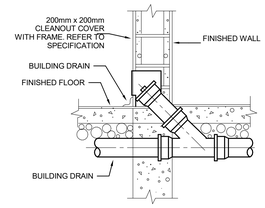
7 M800 — PIPE THROUGH EXTERIOR WALL DETAIL: ABOVE GRADE — NTS



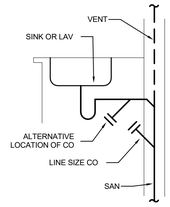
8 M800 — PIPE THROUGH EXTERIOR WALL DETAIL: UNDERGROUND — NTS



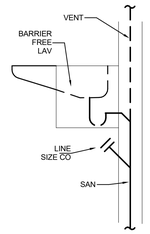
9 M800 — SANITARY/STORM CO IN FLOOR — NTS



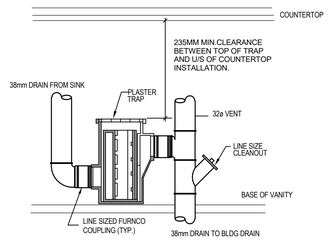
10 M800 — SANITARY/STORM CO IN WALL — NTS



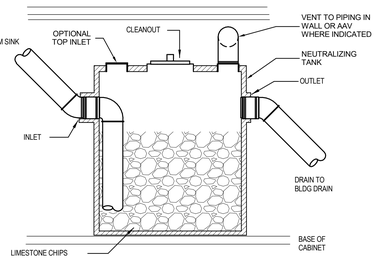
11 M800 — SINK AND LAV CO DETAIL — NTS



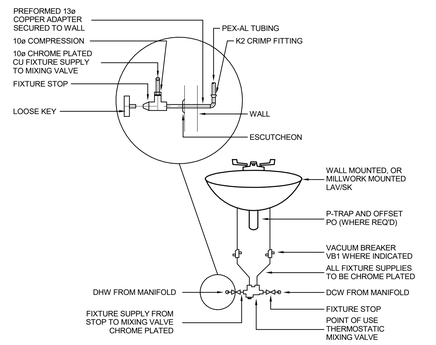
12 M800 — BARRIER FREE SINK AND LAV CO DETAIL — NTS



17 M800 — PLASTER TRAP DETAIL — NTS

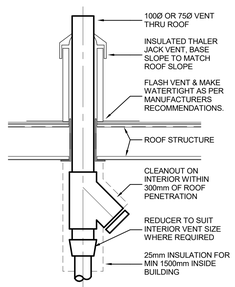


16 M800 — NEUTRALIZING TANK DETAIL — NTS

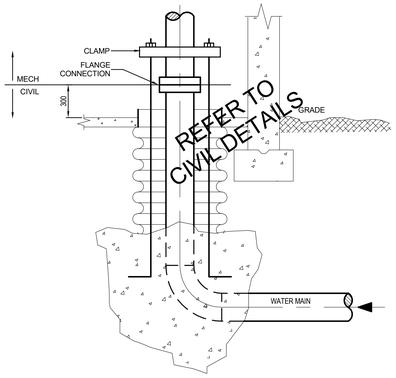


NOTE: FOR EXPOSED BARRIER FREE APPLICATIONS ALL PIPING AND TRIM TO BE W/ SPECIFIED ADA APPROVED INSULATOR

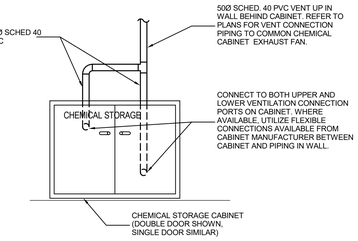
13 M800 — POINT OF USE MIXING VALVE DETAIL — NTS



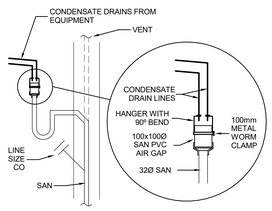
14 M800 — VENT THROUGH ROOF DETAIL — NTS



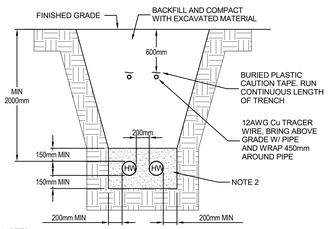
15 M800 — UNDERGROUND WATER SERVICE ENTRY DETAIL — NTS



20 M800 — CHEMICAL STORAGE CABINET PIPING DETAIL — NTS

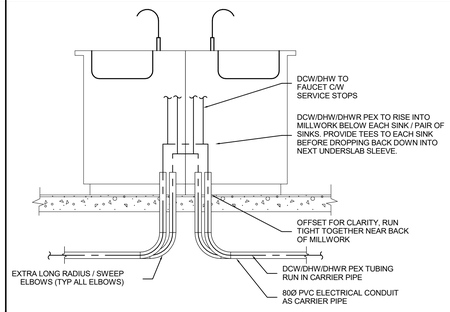


23 M800 — CONDENSATE DRAINAGE INDIRECT CONNECTION DETAIL — NTS



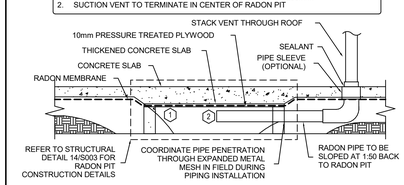
NOTES:
1. DETAIL IS FOR HEATING WATER SUPPLY AND RETURN PIPING IN THEIR OWN TRENCH.
2. 6mm SCREENED MATERIAL / BEDDING SAND. ENSURE FILL COMPLETELY SURROUNDS PIPE ON ALL SIDES INCLUDING BOTTOM. FILL TO BE TAMPED THOROUGHLY ON ALL SIDES AND UNDER PIPE AS PRACTICAL. IN LAYERS NOT EXCEEDING 150mm IN THICKNESS. COMPACT TO 95% PROCTOR.

22 M800 — UNDERGROUND HEATING WATER PIPING DETAIL — NTS



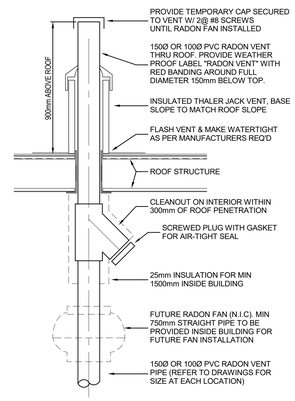
21 M800 — LAB ISLAND SINK DCW/DHW/DHWR PIPING DETAIL — NTS

KEYNOTES
1. RADON SUCTION PIT TO BE 450mm DEEP AND 1200mm x 1200mm.
2. SUCTION VENT TO TERMINATE IN CENTER OF RADON PIT



NOTE:
1. REFER TO STRUCTURAL FOR ADDITIONAL DETAILS. WHERE DISCREPANCIES EXISTING, STRUCTURAL SHALL TAKE PRECEDENT.
2. PITS TO BE LOCATED AS PER MECHANICAL DRAWINGS.
3. COORDINATE WITH OTHER TRADES FOR SUPPLY AND INSTALLATION OF RADON PIT MATERIALS.
4. MECHANICAL TO PROVIDE RADON PIPING.

18 M800 — RADON SUCTION PIT DETAIL — NTS



19 M800 — RADON VENT THROUGH ROOF AND FAN DETAIL — NTS

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Notes

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F	RE-ISSUED FOR TENDER	A.MILLS		2024.09.30
E	ISSUED FOR TENDER	A.MILLS	B.ZRUM	2024.05.06
D	ISSUED FOR CLASS A PRICING SUBMISSION	B.ZRUM	B.ZRUM	2024.03.15
C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM	2024.02.09
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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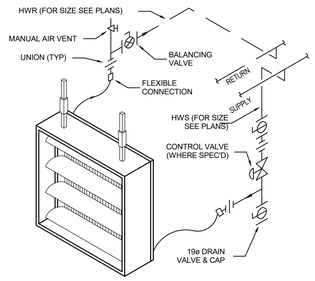
Client/Project
Yukon University
Polaris Project

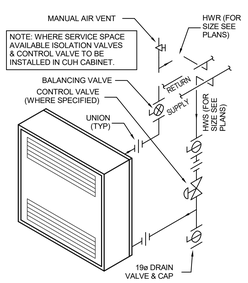
Title
DETAILS - PLUMBING & PIPING

Project No. 144214760
Scale NTS
Revision F
Drawing No. **M800**

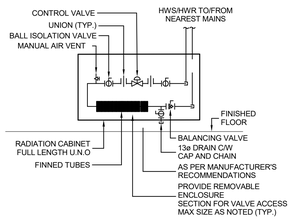
2024-09-27 11:33:13 AM
ORIGINAL SHEET - ISO A0



12 / M801 — UNIT HEATER PIPING DETAIL — NTS



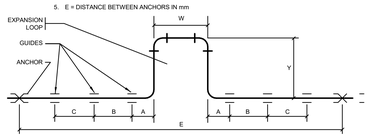
13 / M801 — CABINET UNIT HEATER PIPING DETAIL — NTS



14 / M801 — CONVECTOR DETAIL — NTS

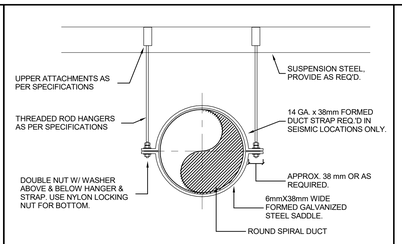
LOOP SIZING DATA:

1. USE THESE FORMULAS FOR TEMPERATURE DIFFERENCES NOT EXCEEDING 110øC. FOR OTHER CONDITIONS USE THE ASHRAE GUIDE DATA BOOK.
2. LENGTH OF PIPE IN LOOP "L"mm = 2Y + W
3. FOR LENGTH "L" US THE FOLLOWING FORMULAS:
   a. STEEL PIPE L = 2.67 x SQRT(D x E)
   b. COPPER PIPE L = 3.17 x SQRT(D x E)
4. D = DIAMETER IN mm
5. E = DISTANCE BETWEEN ANCHORS IN mm

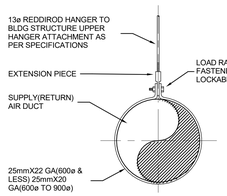


ACTUAL DIA. mm	PIPE SIZE mm NOMINAL	MAXIMUM DISTANCE		MAXIMUM SPACING BETWEEN GUIDES
D		A	B	C
33	25	200	600	3000
42	30	200	600	3000
48	40	200	900	4500
60	50	200	900	4500
73	65	250	1200	6000
89	75	300	1200	6000
114	100	400	1500	9000
168	150	500	3000	10500

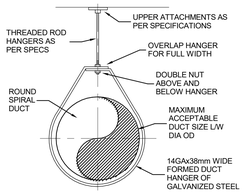
15 / M801 — PIPE LOOP AND GUIDE DETAIL — NTS



1 / M801 — EXPOSED ROUND DUCT HANGER DETAIL: 425Ø AND LARGER — NTS

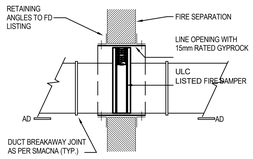


2 / M801 — EXPOSED ROUND DUCT HANGER DETAIL: 400Ø & SMALLER TYPE 1 — NTS



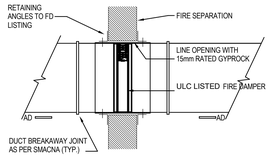
NOTE: PROVIDE HANGER AT DUCT JOINTS TO COVER DUCT JOINT WHERE POSSIBLE.

3 / M801 — EXPOSED ROUND DUCT HANGER DETAIL: 400Ø & SMALLER TYPE 2 — NTS



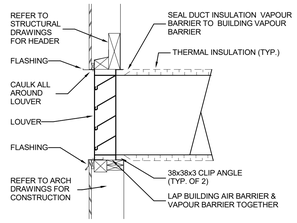
NOTES:
1. PROVIDE DUCT MOUNTED ACCESS DOOR ADJACENT TO EACH FIRE DAMPER TO PERMIT VERIFICATION/INSPECTION (TYP)

4 / M801 — FIRE DAMPER DETAIL: TYPE 2 — NTS

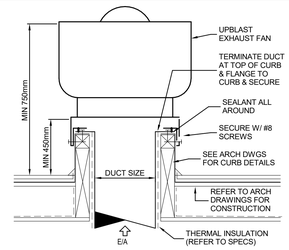


NOTES:
1. ACCEPTABLE ONLY WHERE APPROVED IN WRITING BY ENGINEER
2. PROVIDE DUCT MOUNTED ACCESS DOOR ADJACENT TO EACH FIRE DAMPER TO PERMIT VERIFICATION/INSPECTION (TYP)

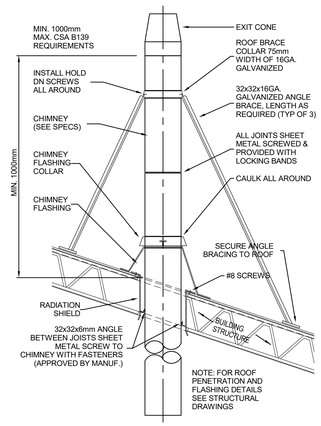
5 / M801 — FIRE DAMPER DETAIL: TYPE 1 — NTS



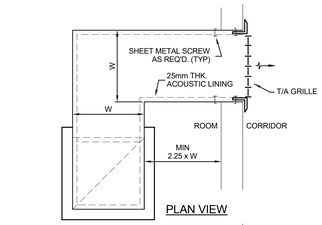
7 / M801 — EXTERIOR WALL LOUVER DETAIL — NTS



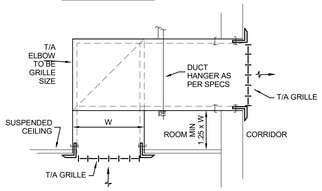
8 / M801 — ROOF MOUNTED UPBLAST EXHAUST FAN DETAIL — NTS



16 / M801 — CHIMNEY (FLUE GAS ECONOMIZER) DETAIL: TOP — NTS



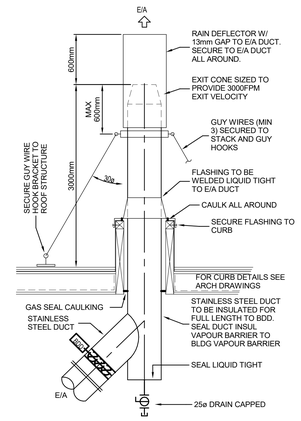
PLAN VIEW



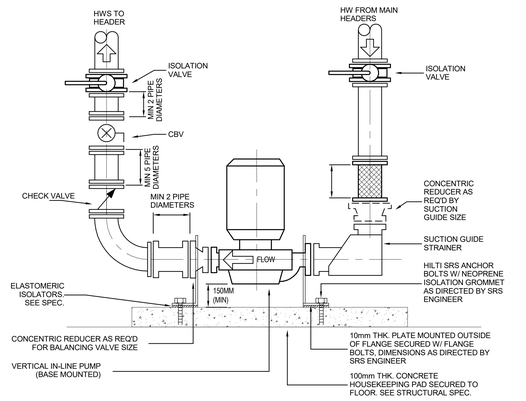
SECTION VIEW

NOTES:
1 SEAL ACOUSTIC LINING TERMINATION TO DUCT WITH 2 COATS OF HIGH VELOCITY SEALANT AT GRILLE CONNECTIONS AND AT JOINTS

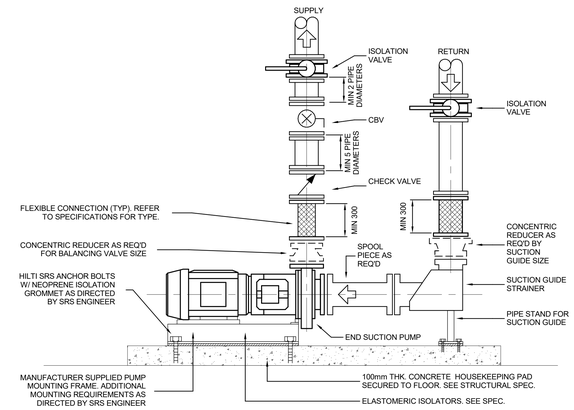
6 / M801 — T/A ACOUSTIC ELBOW DETAIL — NTS



9 / M801 — VERTICAL FUME E/A DISCHARGE STACK DETAIL — NTS



10 / M801 — BASE MOUNTED VERTICAL IN-LINE PUMP DETAIL — NTS



11 / M801 — END SUCTION PUMP DETAIL — NTS

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C	ISSUED FOR 90% REVIEW	B.ZRUM	B.ZRUM 2024.02.09
Issued & Revision		By	Appd YYYY.MM.DD

File Name: N/A	Author	Designer	RM	2024.03.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Yukon University
Polaris Project

Title
DETAILS - HVAC

Project No. 144214760
Scale NTS
Revision F
Drawing No. **M801**

ORIGINAL SHEET - ISO A0

TELECOM OUTLETS

- OUTLET, WHERE NO QUANTITY IS NOTED, 2 DATA JACKS AND PULLSTRING.
- OUTLET, CEILING MOUNTED
- OUTLET, MOUNTED IN MULTI-SERVICE CEILING BOX
- OUTLET, MOUNTED IN MULTI-SERVICE FLOOR BOX
- OUTLET, MOUNTED IN MULTI-SERVICE FURNITURE BOX
- OUTLET, MOUNTED IN MULTI-SERVICE POKE THRU
- OUTLET, MOUNTED IN MULTI-SERVICE POWER POLE
- OUTLET, MOUNTED IN MULTI-SERVICE WALL BOX
- FURNITURE SYSTEMS OUTLET
- MOUNTED ABOVE COUNTER BACKSPLASH

TELECOM OUTLET TYPES

- # — # INDICATES QUANTITY OF DATA JACKS, PULLSTRING ALWAYS PROVIDED. WHERE NO QUANTITY IS NOTED, 2 DATA JACKS AND PULLSTRING.
- B — BLANK FACEPLATE, ROUGH-IN ONLY
- D — DIRECT CONNECTION TO PANEL
- M — PATIENT MONITORING
- P — PAY TELEPHONE
- R — RACEWAY MOUNTED
- W — WALL MOUNTED TELEPHONE HANDSET OUTLET
- WAP — WIRELESS ACCESS POINT CONNECTION

TELECOM MISC.

- CABLE TRAY WITH FLANGE SIDE RAILS AND LADDER RUNGS
- CABLE TRAY
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM, CEILING MOUNTED
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM, PENDANT MOUNTED
- GROUND BAR, LENGTH TO SCALE
- RAISED FLOOR GROMMET
- WAP — WIRELESS ACCESS POINT
- WAP — WIRELESS ACCESS POINT, CEILING MOUNTED

AUDIO VISUAL

- AL — ANTENNA, ASSISTIVE LISTENING
- M — ANTENNA, WIRELESS MIC
- AV CONNECTION
- AV CONNECTION, CEILING MOUNTED
- AV CONNECTION, MOUNTED IN MULTI-SERVICE CEILING BOX
- AV CONNECTION, MOUNTED IN MULTI-SERVICE FLOOR BOX
- AV CONNECTION, MOUNTED IN MULTI-SERVICE FURNITURE BOX
- AV CONNECTION, MOUNTED IN MULTI-SERVICE POKE THRU
- AV CONNECTION, MOUNTED IN MULTI-SERVICE POWER POLE
- AV CONNECTION, MOUNTED IN MULTI-SERVICE WALL BOX
- CONTROL PANEL
- $LV — LOW VOLTAGE SWITCH
- MICROPHONE
- MICROPHONE, CEILING MOUNTED
- MICROPHONE, FURNITURE MOUNTED
- MOTION SENSOR, CEILING MOUNTED
- PROJECTOR SCREEN
- PROJECTOR SCREEN CONTROL
- SYSTEMS TERMINAL CABINET, DRAWN TO SCALE
- TV CONTROL
- AL — ASSISTIVE LISTENING DEVICE
- AL — ASSISTIVE LISTENING DEVICE, CEILING MOUNTED
- AV — AUDIO VISUAL PANEL
- C — VIDEO CAMERA
- C — VIDEO CAMERA, CEILING MOUNTED
- IR — INFRARED RECEIVER
- IR — INFRARED RECEIVER, CEILING MOUNTED
- OS — OCCUPANCY SENSOR, CEILING MOUNTED
- RF — RADIO FREQUENCY RECEIVER
- RF — RADIO FREQUENCY RECEIVER, CEILING MOUNTED
- S — SPEAKER, RECESS MOUNTED
- S — SPEAKER, SURFACE MOUNTED
- S — SPEAKER, PENDANT MOUNTED
- S — SPEAKER, RECESS AND CEILING MOUNTED
- S — SPEAKER, SURFACE AND CEILING MOUNTED
- S — SPEAKER/MICROPHONE, RECESS MOUNTED
- S — SPEAKER/MICROPHONE, RECESS AND CEILING MOUNTED
- TV — CATV OUTLET
- TV — CATV OUTLET, CEILING MOUNTED
- VC — VOLUME CONTROLLER
- VD — VIDEO DISPLAY
- VD — VIDEO DISPLAY, CEILING MOUNTED
- VD — VIDEO DISPLAY, PENDANT MOUNTED
- VP — VIDEO PROJECTOR
- VP — VIDEO PROJECTOR, CEILING MOUNTED

FIRE ALARM

- FIRE SERVICE PHONE STATION OUTLET
- FLAME DETECTOR
- CO — GAS DETECTOR, CARBON MONOXIDE
- HORN AND STROBE LIGHT, CEILING MOUNTED
- HORN AND STROBE LIGHT, WALL MOUNTED
- REMOTE INDICATOR, CEILING MOUNTED
- REMOTE INDICATOR, WALL MOUNTED
- SPEAKER AND STROBE LIGHT, CEILING MOUNTED
- SPEAKER AND STROBE LIGHT, WALL MOUNTED
- STROBE LIGHT, CEILING MOUNTED
- STROBE LIGHT, WALL MOUNTED
- AIM — ADDRESSABLE INPUT MODULE
- ARCM — AREA OF REFUGE COMMUNICATION MASTER UNIT
- ARCR — AREA OF REFUGE COMMUNICATION REMOTE UNIT
- AOM — ADDRESSABLE OUTPUT MODULE
- D — ELECTRICALLY OPERATED SMOKE OR FIRE/SMOKE DAMPER CONNECTION
- DCL — DOOR CLOSER
- DH — DOOR HOLDER
- F — CHIME, WALL MOUNTED
- F — HORN, CEILING MOUNTED
- F — HORN, WALL MOUNTED
- F — PULL STATION
- FAA — FIRE ALARM ANNUNCIATOR
- FACP — FIRE ALARM CONTROL PANEL
- FAT — FIRE ALARM TRANSMITTER
- FATC — FIRE ALARM TERMINAL CABINET
- GAP — GRAPHIC ANNUNCIATOR PANEL
- H — HEAT DETECTOR
- NAC — FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- PS — PRESSURE DETECTOR/SWITCH
- R — INTERFACE RELAY
- S — SMOKE DETECTOR, CEILING MOUNTED
- S — SMOKE DETECTOR, WALL MOUNTED
- SS — SMOKE DETECTOR, SINGLE STATION
- S H — SMOKE/HEAT DETECTOR
- S H CO — SMOKE/HEAT/CARBON MONOXIDE DETECTOR
- S — SPEAKER, CEILING MOUNTED
- S — SPEAKER, WALL MOUNTED
- VS — VALVE SUPERVISORY TAMPER SWITCH
- WF — FLOW DETECTOR/SWITCH

HEAT/SMOKE DETECTOR TYPES

- H C#/F# — FIXED TEMPERATURE, # INDICATES °C OR °F
- H R — RATE OF RISE
- H RC#/F# — COMBINED RATE OF RISE/FIXED TEMPERATURE
- S AS — AIR SAMPLING
- S BR — BEAM DETECTOR RECEIVER
- S BT — BEAM DETECTOR TRANSMITTER
- S E — ELEVATOR RECALL
- S I — IONIZATION
- S ID — IN DUCT
- S P — PHOTOELECTRIC

LIGHTING CONTROLS

- $ — SINGLE POLE SWITCH
- INDICATES WIRELESS CONTROL
- INDICATES BATTERY POWER
- $a — LOWER-CASE LETTER(S) NEAR SWITCH DENOTE SWITCH LEG(S)
- $2 — DOUBLE POLE SWITCH
- $3 — THREE-WAY SWITCH
- $4 — FOUR-WAY SWITCH
- $D — DIMMER SWITCH
- $K — KEY OPERATED SWITCH
- $LV — MOMENTARY CONTACT LOW VOLTAGE SWITCH
- $O — OCCUPANCY SENSOR SWITCH
- $P — SWITCH WITH PILOT LIGHT
- $PC — PHOTOCELL SWITCH
- $T — TIMER SWITCH
    - COMBINATIONS OF THE ABOVE DESIGNATIONS MAY BE USED
- CS# — LOW VOLTAGE CONTROL STATION, # INDICATES STATION IDENTIFICATION
- DSC — DIMMING SYSTEM CONTROL PANEL
- J ELCU — EMERGENCY LIGHTING CONTROL UNIT
- LCP — LIGHTING CONTROL PANEL
- OP — COMBINATION OCCUPANCY/PHOTO SENSOR SWITCH, CEILING MOUNTED
- OS — OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- PC — PARTITION SENSOR CONTROL
- PS — PHOTO SENSOR CONTROL
- PS — PHOTO SENSOR CONTROL, CEILING MOUNTED
- R — RELAY
- T — LOW VOLTAGE TRANSFORMER

ELECTRONIC SECURITY

- CCTV CAMERA
- CCTV CAMERA, CEILING MOUNTED
- CCTV CAMERA, PENDANT MOUNTED
- CCTV CAMERA, POLE MOUNTED
- CCTV CAMERA, 360° FIELD OF VIEW
- CCTV CAMERA, FIXED AIM, WEDGE INDICATES AIMING
- CCTV CAMERA, PAN/TILT/ZOOM, WEDGE INDICATES DEFAULT AIMING
- DOOR HARDWARE MARK
- GLASS BREAKAGE SENSOR
- GLASS BREAKAGE SENSOR, CEILING MOUNTED
- WIRELESS RECEIVER
- A — LOCAL ALARM
- ACP — ACCESS CONTROL PANEL
- BR — BIOMETRIC READER
- CC — CCTV MONITOR
- CK — CARD READER/KEYPAD COMBINATION
- CR — CARD READER
- DA — DURESS ALARM BUTTON
- DA — VOICE DURESS ALARM
- DA — VOICE DURESS ALARM WITH STROBE
- DA — VOICE DURESS ALARM WITH STROBE, PEDESTAL MOUNTED
- DS — DOOR CONTACT SWITCH
- EL — ELECTRIC LOCK
- ML — MAGNETIC LOCK
- ES — ELECTRIC STRIKE
- EX — ELECTRIC LATCH RETRACTION
- IAD — INTRUSION ARM/DISARM
- IDP — INTRUSION DETECTION PANEL
- IM — PRIMARY INTERCOM STATION, AUDIO ONLY
- IM — PRIMARY INTERCOM STATION, AUDIO/VIDEO
- IM — PRIMARY INTERCOM STATION, AUDIO ONLY, DOOR RELEASE
- IM — PRIMARY INTERCOM STATION, AUDIO/VIDEO, DOOR RELEASE
- IS — SECONDARY INTERCOM STATION, AUDIO ONLY
- IS — SECONDARY INTERCOM STATION, AUDIO/VIDEO
- IS — SECONDARY INTERCOM STATION, AUDIO ONLY, DOOR RELEASE
- IS — SECONDARY INTERCOM STATION, AUDIO/VIDEO, DOOR RELEASE
- KP — KEYPAD
- M — MOTION DETECTOR
- M — MOTION DETECTOR, CEILING MOUNTED
- PSP — POWER SUPPLY PANEL
- RE — REQUEST TO EXIT DETECTOR

LUMINAIRES

CIRCUITS: EMERGENCY / NORMAL

- N/A / L01 — LUMINAIRE IDENTIFICATION, SEE LUMINAIRES SCHEDULE
- N/A / a — LOWER-CASE LETTER(S) NEAR LUMINAIRE DENOTE SWITCH LEG(S)
- RECESSED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
- SURFACE MOUNTED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
- RECESSED VOLUMETRIC LUMINAIRE, DRAWN TO SCALE
- STRIP LUMINAIRE, LENGTH TO SCALE
- WALL MOUNTED RECTANGULAR LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
- RECESSED DOWNLIGHT LUMINAIRE
- SURFACE MOUNTED CEILING LUMINAIRE
- PENDANT MOUNTED LUMINAIRE
- LINEAR PENDANT MOUNTED LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED VERTICALLY ORIENTED LUMINAIRE
- WALL MOUNTED RECESSED LINEAR LUMINAIRE, LENGTH TO SCALE
- N/A — EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
- N/A — WALL MOUNTED EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
- N/A — EXIT SIGN WITH EMERGENCY BATTERY PACK
- N/A — WALL MOUNTED EXIT SIGN WITH EMERGENCY BATTERY PACK
- N/A — EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
- N/A — WALL MOUNTED EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
- N/A — EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
- N/A — WALL MOUNTED EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
- RECESSED LINEAR WALL WASH LUMINAIRE, LENGTH TO SCALE
- LINEAR PENDANT MOUNTED WALL WASH LUMINAIRE, LENGTH TO SCALE
- RECESSED WALL WASH LUMINAIRE
- SURFACE MOUNTED WALL WASH LUMINAIRE
- PENDANT MOUNTED WALL WASH LUMINAIRE
- RECESSED ACCENT LUMINAIRE
- SURFACE MOUNTED ACCENT LUMINAIRE
- PENDANT MOUNTED ACCENT LUMINAIRE
- MONOPOINT LUMINAIRE
- N/A — TRACK LIGHTING
- N/A — CONTINUOUS SOURCE LUMINAIRE, PATH AS INDICATED
- MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
- WALL MOUNTED MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
- OVERCOUNTER TASK LUMINAIRE
- UNDERCABINET TASK LUMINAIRE
- FIBER OPTIC REMOTE SOURCE
- STEP LUMINAIRE
- ILLUMINATED SIGN
- WALL MOUNTED ILLUMINATED SIGN
- NIGHT LIGHT
- WALL MOUNTED STROBE LIGHT

SITE/LANDSCAPE/GARAGE LUMINAIRES

CIRCUITS: EMERGENCY / NORMAL

- LIGHTING STANDARD: LUMINAIRE, POLE, AND BASE
- POST TOP LUMINAIRE
- ILLUMINATED BOLLARD
- IN-GROUND LUMINAIRE
- ADJUSTABLE IN-GROUND LUMINAIRE
- PENDANT MOUNTED GARAGE LUMINAIRE
- PENDANT MOUNTED SHIELDED GARAGE LUMINAIRE, LINES INDICATE NUMBER AND POSITION OF SHIELD(S)
- SURFACE MOUNTED GARAGE LUMINAIRE
- SURFACE MOUNTED SHIELDED GARAGE LUMINAIRE, LINES INDICATE NUMBER AND POSITION OF SHIELD(S)
- WALL PACK

RECEPTACLES

CIRCUITS: EMERGENCY / NORMAL

- SINGLE RECEPTACLE, 20A, 120V
- SINGLE RECEPTACLE, 20A, 120V, CEILING MOUNTED
- DUPLEX RECEPTACLE, 20A, 120V
- DUPLEX RECEPTACLE, 20A, 120V, CEILING MOUNTED
- DOUBLE DUPLEX RECEPTACLE, 20A, 120V
- DOUBLE DUPLEX RECEPTACLE, 20A, 120V, CEILING MOUNTED
- SPLIT WIRED RECEPTACLE, 20A, 120V, TOP CONTROLLED, BOTTOM CONSTANTLY ENERGIZED
- # — RECEPTACLE, NEMA #
- # — RECEPTACLE, NEMA #, CEILING MOUNTED
- # — COMBINATION RECEPTACLE, NEMA # AND 120V
- FURNITURE SYSTEMS RECEPTACLE, 20A, 120V
- N/A — INDICATES FULLY CONTROLLED
- N/A — INDICATES 15A
- N/A — INDICATES TWIST LOCK
- N/A — INDICATES MOUNTED ABOVE COUNTER BACKSPLASH
- N/A — MULTI-SERVICE ASSEMBLY (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE CEILING BOX (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE FLOOR BOX (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE FURNITURE BOX (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE POKE THRU (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE POWER POLE (RECEPTACLES AS INDICATED)
- N/A — MULTI-SERVICE WALL BOX (RECEPTACLES AS INDICATED)
- N/A — PLUG STRIP (HORIZONTAL/VERTICAL)
- N/A — CLOCK RECEPTACLE, 120V
- CORD DROP, 120V
- CEILING CORD DROP, 120V

RECEPTACLE TYPES

- A — ARC FAULT CIRCUIT INTERRUPTER
- AT — ARC FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- D — DEDICATED CIRCUIT
- G — GROUND FAULT CIRCUIT INTERRUPTER
- GT — GROUND FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- IG — ISOLATED GROUND
- S — SURGE PROTECTOR
- T — TAMPER RESISTANT
- U — INTEGRAL USB PORT(S)
- WP — WEATHER RESISTANT COVER

CONTROLS

- NON-FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH, FUSE RATING INDICATED
- COMBINATION MOTOR STARTER AND FUSED SAFETY SWITCH, FUSE RATING INDICATED
- MOTOR STARTER
- MANUAL MOTOR STARTER
- AUTOMATIC DOOR PUSHPLATE
- DEAD FRONT GFCI
- EMERGENCY SHUTDOWN
- ENCLOSED CIRCUIT BREAKER
- ENCLOSED CONTACTOR
- PUSH BUTTON CONTROL STATION
- $M — TOGGLE SWITCH, MOTOR RATED
- TOUCHLESS AUTOMATIC DOOR OPENER
- DDC — DIRECT DIGITAL CONTROL PANEL
- R — RELAY
- THERMOSTAT
- TC — TIME CLOCK
- VFD — VARIABLE FREQUENCY DRIVE

WORK DEFINITION

- NEW WORK
- EXISTING
- REMOVE EXISTING
- REMOVE EXISTING ELECTRICAL EQUIPMENT
- FUTURE
- TEMPORARY, AS NOTED
- ?:## — KEY NOTE
- ??? — EQUIPMENT IDENTIFICATION

RACEWAYS

- RACEWAY CONCEALED IN CEILING OR WALL. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY CONTINUATION
- RACEWAY STUB-OUT WITH BUSHING
- SURFACE RACEWAY (HORIZONTAL/VERTICAL)
- J — JUNCTION BOX, CEILING OR ABOVE CEILING MOUNTED
- J — JUNCTION BOX, WALL MOUNTED
- J — JUNCTION BOX, IN-GROUND
- PB — PULL BOX

ELECTRICAL EQUIPMENT

- 208V OR 240V POWER PANELBOARD
- 480V OR 600V POWER PANELBOARD
- EQUIPMENT CABINET OR PANEL
- EQUIPMENT CONNECTION, FILL INDICATES EMERGENCY CIRCUIT
- GROUND BAR
- MOTOR CONNECTION, 1Ø
- MOTOR CONNECTION, 3Ø
- BUS DUCT
- ATS — AUTOMATIC TRANSFER SWITCH
- B — BUS DUCT PLUG
- SPD — SURGE PROTECTIVE DEVICE
- T — TRANSFORMER, NOT TO SCALE
- TRANSFORMER, DRAWN TO SCALE

SITE UTILITIES

- HH — HANDHOLE
- M — SITE METER
- MH — MANHOLE
- PMH — PRIMARY MANHOLE
- SMH — SECONDARY MANHOLE
- TMH — TELECOMMUNICATIONS MANHOLE

SITE UTILITY POLES

- CATV ONLY
- COMBINED SERVICES
- POWER ONLY
- TELECOM ONLY
- STEPDOWN TRANSFORMER, POLE MOUNTED

LIGHTNING PROTECTION

- CONDUCTOR
- GROUND ROD
- AIR TERMINAL
- DOWN CONDUCTOR

PROJECT NOTES

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM AUTHORITIES HAVING JURISDICTION AND PAY ALL ASSOCIATED FEES.
2. LOCATE JUNCTION AND PULL BOXES AS REQUIRED TO ALLOW ACCESS AFTER EQUIPMENT AND APPURTENANCES ARE INSTALLED. COORDINATE EXACT LOCATIONS WITH THE OTHER TRADES. COORDINATE LOCATIONS AND ELEVATIONS OF ELECTRICAL DEVICES WITH DRAWINGS AND OTHER TRADES PRIOR TO INSTALLATION.
3. PROTECT PERMANENT BUILDING FINISHES FROM DAMAGE DURING CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS, AND IN AREAS WHERE CONSTRUCTION MAY DAMAGE FINISHES. SURFACES OR FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
4. CONTRACTORS SHALL COORDINATE LOCATIONS OF FIXTURES AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES, UNLESS OTHERWISE NOTED.
5. PROPERLY SUPPORT LOW VOLTAGE CABLING NOT IN CONDUIT PER CODE. IN AREAS SUCH AS CORRIDORS DESIGNATED FOR NEW CEILINGS AND FINISHES, SUPPORT EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN AND ABOVE THE CEILING, INCLUDING CONDUIT AND CABLING. PROVIDE PROPER PERMANENT SUPPORT AS NEEDED TO COMPLY WITH CODE AND TAKE WEIGHT OFF CEILING SUPPORTS. REMOVE AND REINSTALL ELECTRICAL DEVICES AND EQUIPMENT AS NEEDED FOR PAINTING, WALL COVERINGS, CEILINGS, AND FINISH WORK. REFER TO ARCHITECTURAL DRAWINGS. LOW VOLTAGE CABLING LOCATED IN EXPOSED STRUCTURE (CEILING) AREAS SHALL BE INSTALLED IN CONDUIT (OR CABLE TRAY, IF APPLICABLE) AND ROUTED TIGHT TO DECK. INSTALLATIONS NOT IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT CONTRACTOR'S EXPENSE.
6. FOR BRANCH CIRCUITS OVER 75' (25 METERS) IN LENGTH (TOTAL ONE WAY) FROM THE PANEL, THE ELECTRICAL CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND PROVIDE AN APPROPRIATE CONDUCTOR SIZE TO ACHIEVE NO MORE THAN 3% MAXIMUM ALLOWABLE VOLTAGE DROP.
7. DO NOT SCALE THE DRAWINGS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS OR OTHER SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUITS, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED.

DRAWING INDEX

NO.	DRAWING NAME
E000	SYMBOLS AND ABBREVIATIONS
E010	ELECTRICAL SITE PLAN
E100	FIRE ALARM AND LIGHTING CONTROL ZONE KEY
E201	LEVEL 1 - POWER FLOOR PLAN - OVERALL
E202	ROOF - POWER FLOOR PLAN - OVERALL
E211	LEVEL 1 - MECH-POWER FLOOR PLAN - OVERALL
E212	ROOF - MECH-POWER FLOOR PLAN - OVERALL
E301	LEVEL 1 - LIGHTING RCP - OVERALL
E401	LEVEL 1 - FIRE ALARM FLOOR PLAN - OVERALL
E411	LEVEL 1 - ICT AND SECURITY FLOOR PLAN - OVERALL
E421	ROOF - LIGHTNING PROTECTION SYSTEM FLOOR PLAN - OVERALL
E501	ENLARGED PLANS
E502	INTERIOR AND EXTERIOR ELEVATIONS
E601	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEMATICS
E701	MECHANICAL EQUIPMENT SCHEDULE
E702	LIGHT FIXTURE SCHEDULE
E710	PANEL SCHEDULES
E711	PANEL SCHEDULES
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS
E803	ELECTRICAL DETAILS
E804	COMMUNICATION BACKBONE PATHWAYS, CABLING, GROUNDING & SYSTEM RISERS
E805	DOOR HARDWARE TYPICAL CONFIGURATIONS AND ELEVATIONS
E806	LIGHTNING PROTECTION DETAILS
Total: 24	

ABBREVIATIONS

#/C	MULTI-CONDUCTOR, # INDICATES QUANTITY
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
(R)	EXISTING TO BE RELOCATED
1/C	SINGLE CONDUCTOR
A	AMPS
A/C	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
ACH	ABOVE COUNTER HEIGHT
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALD	ASSISTED LISTENING DEVICE
ALT	ALTERNATE
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BC	BONDING CONDUCTOR
BCU	BARE COPPER
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BLDG	BUILDING
BOF	BOTTOM OF FIXTURE
BOH	BACK OF HOUSE
BTM	BOTTOM
C	CONDUIT
C/W	COMPLETE WITH
CAP	CAPACITY
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CANADIAN ELECTRIC CODE
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CM	CEILING MOUNTED
CMU	CONCRETE MASONRY UNIT
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CPU	CENTRAL PROCESSING UNIT
CR	CRITICAL BRANCH
CT	CURRENT TRANSFORMERS
CTR	CENTER
CU	COPPER
CUH	CABINET UNIT HEATER
D	DEDICATED
DALI	DIGITAL ADDRESSABLE LIGHTING INTERFACE
DC	DIRECT CURRENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIV	DIVISION
DL	DAMP LOCATION
DMX	DIGITAL MULTIPLEX
DMX-RDM	DIGITAL MULTIPLEX REMOTE DEVICE MANAGEMENT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE, DOUBLE THROW
DPR	DAMPER
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EM GEN	EMERGENCY GENERATOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	ELECTRIC-PNEUMATIC
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT BRANCH
EQUIP	EQUIPMENT
ETD	EMERGENCY TRANSFER DEVICE
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPLOSION PROOF
EXTER	EXTERIOR
F&I	FURNISHED AND INSTALLED
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FCU	FAN COIL UNIT
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FIBER (FIBRE) OPTIC
FOH	FRONT OF HOUSE
FP	FIRE PROTECTION
FPC	FORWARD PHASE CONTROL
FS	FUSIBLE SWITCH
FSCS	FIRE FIGHTER SMOKE CONTROL STATION
FU	FUSE
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
G, GND	GROUND
G/Y	GREEN YELLOW
GA	GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT (CIRCUIT) INTERRUPTER
H	HOT CONDUCTOR
HC	HORIZONTAL CROSS CONNECT
HD	HAND DRYER
HFF	HANDS FREE FIXTURE
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HK	HOUSE KEEPING PAD
HM	HORIZONTALLY MOUNTED
HOA	HAND-OFF-AUTO
HOR	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVCB	HIGH VOLTAGE CIRCUIT BREAKER
HW	HOT WATER
HZ	HERTZ
IC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME

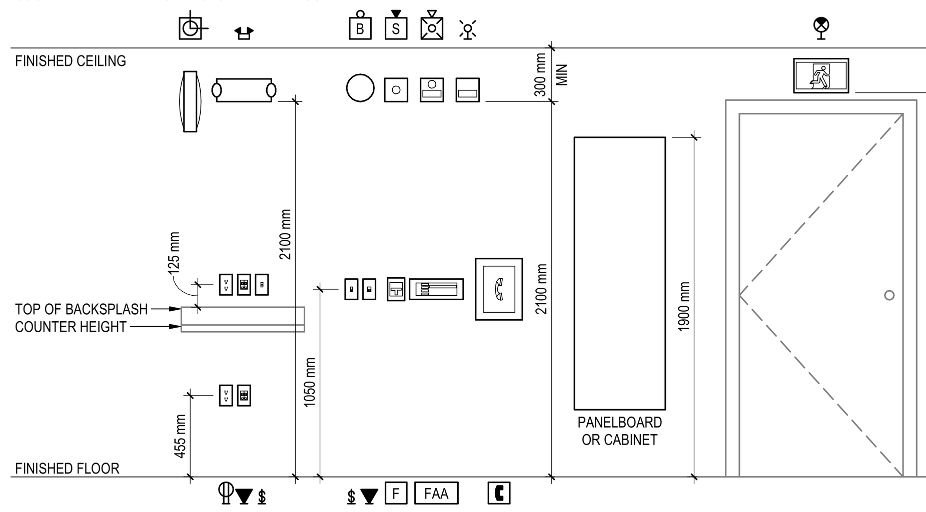
ABBREVIATIONS

IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INST	INSTANTANEOUS
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
K	KIRK KEY INTERLOCK
KAIC	KILO-AMPS INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LR	LEGALLY REQUIRED
LS	LIFE SAFETY BRANCH
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
LTG	LIGHTING
LV	LOW VOLTAGE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MCT	MAIN CROSS CONNECT
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MET	MAIN EARTHING TERMINAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MM	MULTIMODE FIBER (FIBRE) OPTIC STRAND
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TERMINAL SPACE
MV	MEDIUM VOLTAGE
MVCB	MEDIUM VOLTAGE CIRCUIT BREAKER
MW	MICROWAVE OVEN
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR, OPTIONAL STANDBY
OSP	OUTSIDE PLANT
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PD	PUNCHDOWN
PF	POWER FACTOR
PNL	PANEL
POE	POINT OF ENTRANCE
POS	POINT OF SERVICE
PR	PAIR
PT	POTENTIAL TRANSFORMERS
PTS	PNEUMATIC TUBE STATION
PTZ	PAN/TILT/ZOOM
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PWR	POWER
RA	RETURN AIR
REC	RECESSED
RECP	RECEPTACLE
REQD	REQUIRED
REX	REQUEST TO EXIT
RM	ROOM
RNC	RIGID NON-METALLIC CONDUIT
RO	RACEWAY ONLY
RPC	REVERSE PHASE CUT
RSC, RGS	RIGID STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECURITY
SECT	SECTION
SIM	SIMILAR
SM	SINGLE MODE FIBER OPTIC STRAND
SMR	SURFACE MOUNTED RACEWAY
SPD	SURGE PROTECTED DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPECS	SPECIFICATIONS
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
ST	SHUNT TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
TBB	TELECOMMUNICATIONS BACKBONE
TC	TEMPERATURE CONTROL OR TERMINAL CABINET
TE	TELECOMMUNICATIONS ENCLOSURE
TELE	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TERM	TERMINAL
TGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TOF	TOP OF FIXTURE
TP	TAMPER RESISTANT
TR	TELECOMMUNICATIONS ROOM
TSP	TWISTED SHIELDED PAIR
TSTAT	THERMOSTAT
TTB	TELECOM TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNV	UNIVERSAL VOLTAGE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
UV	UNIT VENTILATOR
V	VOLTS
VA	VOLT-AMPS
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VDT	VISUAL DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
VT	VAPOR TIGHT
W	WIRE, WATT
WAP	WIRELESS ACCESS POINT
WG	WIREGUARD
WL	WET LOCATION
WP	WEATHERPROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
Ø, PH	PHASE

NOTE: NOT ALL SYMBOLS, SYSTEMS, AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

STANDARD MOUNTING HEIGHTS

MOUNTING HEIGHTS SHOWN BELOW TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS



Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16

Issued & Revision

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
ED, JC	BS, JC	CC	2024.05.06

Permit/Seal

PRELIMINARY NOT FOR CONSTRUCTION

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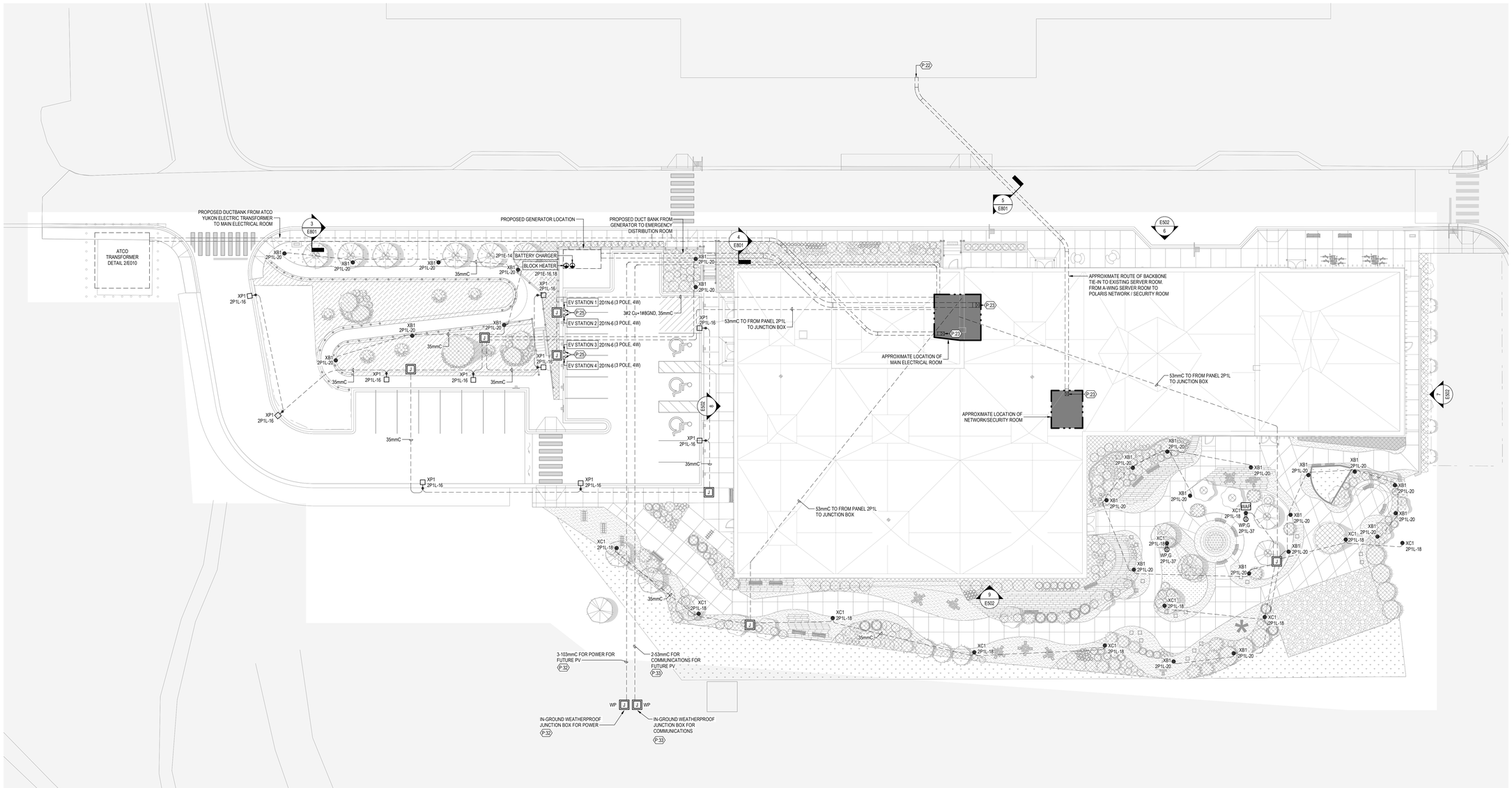
Client/Project
Yukon University
Polaris Project

Title
SYMBOLS AND ABBREVIATIONS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E000**



1 ELECTRICAL SITE PLAN
E010 1 : 200

GENERAL NOTES - EXISTING SYSTEM

1. ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE, AND WHICH IS INTERRUPTED BY WORK PERFORMED UNDER THIS CONTRACT, SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS EXCEPT RELOCATION OF WIRING OF #2 AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OF WIRING LOCATION, REASON IT MUST BE REMOVED AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
PRIOR TO COMMENCING WITH DEMOLITION, IDENTIFY ALL POWER, LIGHTING, COMMUNICATION, AND SIGNAL CIRCUITS PASSING THROUGH THE DEMOLITION AREA OR EXTENDING BEYOND THE DEMOLITION AREA. COORDINATE WITH DEMOLITION WORK OF OTHER TRADES.
2. THE EXISTING BUILDING MUST BE KEPT IN OPERATION AT ALL TIMES. MAINTAIN ELECTRICAL SERVICES AND SYSTEMS AT ALL TIMES TO AREAS BEYOND THE CONSTRUCTION AREA AND MAINTAIN CONTINUITY OF FIRE ALARM, LIFE SAFETY AND SECURITY SYSTEMS TO ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT THE CONSTRUCTION PERIOD. PROVIDE TEMPORARY WIRING AND BRANCH CIRCUITING AS NECESSARY TO MAINTAIN OPERATION OF EXISTING CIRCUITS AND SYSTEMS EXTENDING BEYOND REMODEL AREA. ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO EXISTING SERVICES. RECONNECT ANY SERVICES WHICH ARE TO REMAIN, AND WHICH HAVE BEEN DISCONNECTED DURING DEMOLITION OR CONSTRUCTION. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT PRE-SCHEDULED TIMES. CARRY OUT THE WORK WITH A MINIMUM OF NOISE, DUST AND DISTURBANCE.
3. ANY EXISTING SYSTEM OUTAGES SHALL BE OF MINIMUM DURATION AND AT A TIME ACCEPTABLE TO THE OWNER, ARRANGED A MINIMUM OF 10 WORKING DAYS IN ADVANCE. LONGER NOTICES AND/OR ADDITIONAL RESTRICTIONS PERTAINING TO OUTAGES MAY BE REQUIRED IN SOME INSTANCES, AS PER SPECIFICATIONS. VERIFY PROTOCOL WITH ALL PROJECT STAKEHOLDERS INCLUDING OWNER, TENANT, CONSTRUCTION MANAGER AND/OR USER GROUP(S) AS APPLICABLE.

GENERAL NOTES - SITE

1. COORDINATE ALL IN-SLAB AND STRUCTURAL PENETRATIONS WITH STRUCTURAL ENGINEER PRIOR TO ROUGH-IN.
2. REFER TO SHEET E801 AND E802 FOR ELECTRICAL SITE DETAILS.
3. REFER TO DETAILS 4/E501 AND 5/E501 FOR ELECTRICAL EQUIPMENT IN ENERGY CENTER ROOM IN EXISTING A-WING BUILDING.
4. OUTDOOR LIGHTING SHALL BE CONFIGURED TO AUTOMATICALLY TURN OFF WHEN DAYLIGHT IS PRESENT.

KEY NOTES

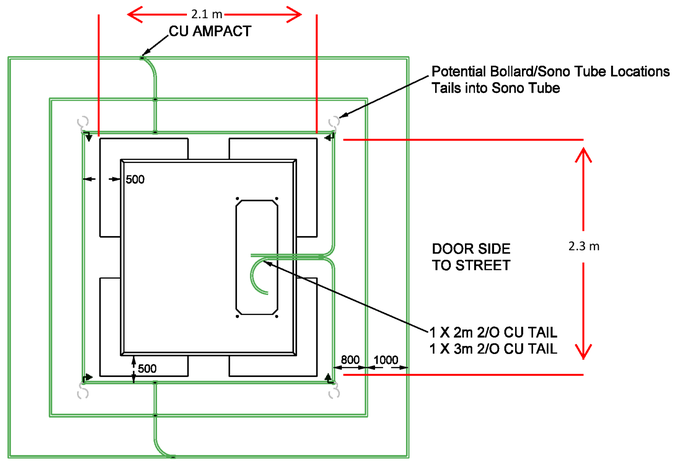
P.22 COORDINATE ROUTING THROUGH EXISTING A-WING BUILDING TO A-WING SERVER ROOM. PROVIDE 75M DISTANCE ALLOWANCE FOR ROUTING THROUGH A-WING. COORDINATE WORK AND SHUTDOWNS WITH YUKON UNIVERSITY. REFER TO 'EXISTING SYSTEM - GENERAL NOTES' ON THIS SHEET FOR MORE INFORMATION.

P.23 COORDINATE LOCATION OF CONDUIT SLAB PENETRATIONS WITH ELECTRICAL EQUIPMENT AND STRUCTURAL ENGINEER.

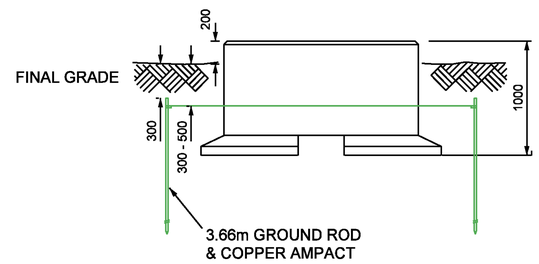
P.25 PROVIDE DUAL SIDE-BY-SIDE FLO CORE+ MAX ON PEDESTAL WITH CMS EV CHARGING STATION. PROVIDE WITH POWER SHARING CAPABILITIES.

P.32 PROVIDE AND INSTALL THREE (3) 103mm CONDUITS FOR POWER FROM THE MAIN ELECTRICAL ROOM TO THE IN-GROUND WEATHERPROOF JUNCTION BOX FOR FUTURE PV. COORDINATE THE FINAL LOCATION OF IN-GROUND WEATHERPROOF JUNCTION BOX WITH THE END USER PRIOR TO COMMENCING THE WORK.

P.33 PROVIDE AND INSTALL TWO (2) 53mm CONDUITS FOR COMMUNICATIONS FROM THE MAIN ELECTRICAL ROOM TO THE IN-GROUND WEATHERPROOF JUNCTION BOX FOR FUTURE PV. COORDINATE THE FINAL LOCATION OF IN-GROUND WEATHERPROOF JUNCTION BOX WITH THE END USER PRIOR TO COMMENCING THE WORK.



2 UGR7C PADMOUNT
E010 N.T.S.



UGR7C PADMOUNT NOTES

1. BASE IS MADE OF 27.5MPa CONCRETE & WEIGH'S APPROXIMATELY 2525 KG. VAULT MAX SUPERIMPOSED LOAD 6500 KG.
2. INSTALL PRECAST CONCRETE BASE ON 150mm OF FIRM COMPACTED SAND & GRAVEL.
3. IMPORTANT – INCREASE VAULT PROJECTION ABOVE CONSTRUCTION GRADE LEVEL AS NECESSARY TO MAINTAIN A 200mm ABOVE FINAL GRADE. ADDITION OF 100mm OF GRAVEL, OR 80mm OF ASPHALT WILL DETERMINE FINAL GRADE. DETERMINE HOW AREA WILL BE SURFACED BEFORE INSTALLING VAULT.
4. ALL GROUNDING CONNECTIONS TO USE AMPACT CONNECTORS.

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Keyplans

Notes

4	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 70% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

	ED, JC	BS, JC	CC	2024.05.06
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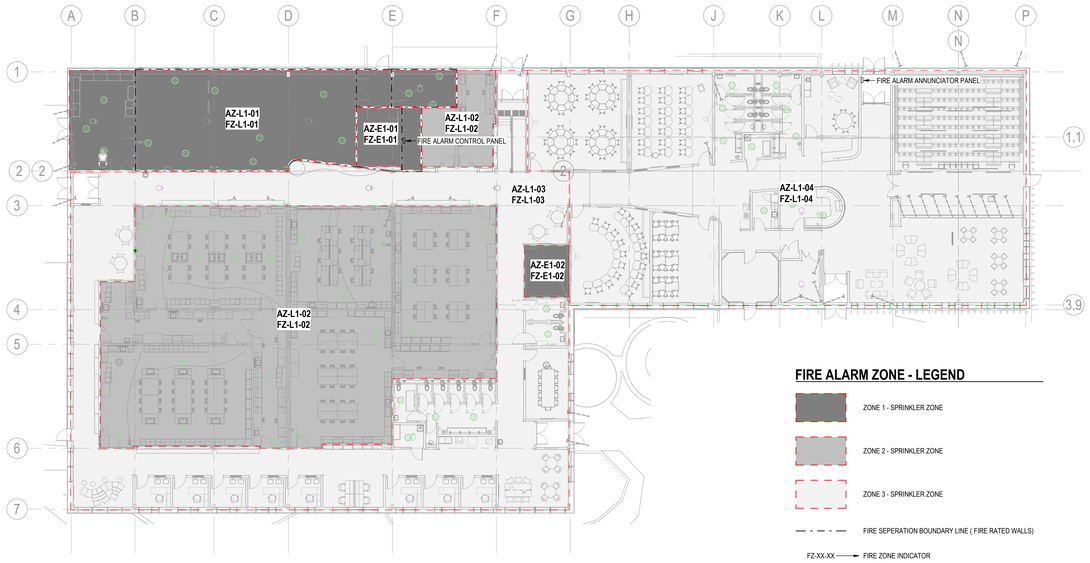
Client/Project
Yukon University
Polaris Project

Title
ELECTRICAL SITE PLAN

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E010**

ORIGINAL SHEET - ISO A0



FIRE ALARM ZONE - LEGEND

- ZONE 1 - SPRINKLER ZONE
- ZONE 2 - SPRINKLER ZONE
- ZONE 3 - SPRINKLER ZONE
- FIRE SEPERATION BOUNDARY LINE (FIRE RATED WALLS)
- FZ-XX-XX → FIRE ZONE INDICATOR
- AZ-XX-XX → FIRE ALARM ZONE INDICATOR

1 / E100 **FIRE ALARM ZONE KEY**
1 : 200

2 / E100 **LIGHTING CONTROL ZONE KEY**
1 : 200

GENERAL NOTES - LIGHTING CONTROLS

1. AREAS IDENTIFIED AS Z."X" WHERE "X" IS A UNIQUE NUMERICAL IDENTIFIER SHALL BE CAPABLE OF:
   A. BEING PROGRAMMED VIA LIGHTING CONTROL SYSTEM SOFTWARE.
   B. TIMECLOCK CONTROL SCHEDULE (PER OWNER).
   C. REMOTE CONTROL VIA CENTRAL CONTROL STATION.
   D. OCCUPANCY SENSORS TO AUTOMATICALLY AJUST LIGHTS TO 100% BRIGHTNESS AFTER HOURS IF SPACE IS OCCUPIED.
2. AREAS INDENTIFIED AS "LC" SHALL HAVE LOCAL LIGHTING CONTROLS.
3. PROVIDE DAYLIGHT RESPONSIVE CONTROLS CONFIGURED TO AUTOMATICALLY REDUCE THE POWER OF GENERAL LIGHTING IN THE LIGHT ZONE AVAILABLE TO DAYLIGHT, WHILE MAINTAINING THE UNIFORM ILLUMINATION IN THE SPACE.
4. OCCUPANCY SENSORS FOR LOCAL ROOM CONTROLS SHALL BE MANUAL ON, AUTOMATIC OFF IN ALL AREAS EXCEPT WASHROOMS WHERE THE OCCUPANCY SENSORS SHALL BE AUTOMATIC ON, AUTOMATIC OFF.
5. ALL FIXTURES SHALL BE ADDRESSABLE. ROOMS CONTROLLED VIA LOCAL LIGHTING CONTROLS SHOULD STILL USE ADDRESSABLE FIXTURES.
6. ALL OUTDOOR LIGHTING TO BE TURNED ON BY BAS AT AN OUTDOOR TEMPERATURE OF -35°C AND BELOW.
7. OUTDOOR LIGHTING DRIVERS TO BE PLACED INDOORS WHERE APPLICABLE.

KEY NOTES

L.07 CONFIGURE LECTURE HALL LIGHTING SUCH THAT WHEN SKYFOLD WALL IS OPEN, LECTURE HALL LIGHTING IS TO BE TIED INTO ZONE "Z2" LIGHTING VIA TIMECLOCK CONTROL AND/OR OCCUPANCY CONTROL. WHEN SKYFOLD WALL IS CLOSED, LECTURE HALL SHALL HAVE LOCAL LIGHTING CONTROLS WITH PREPROGRAMMED SCENES AS INDICATED BY CLIENT.

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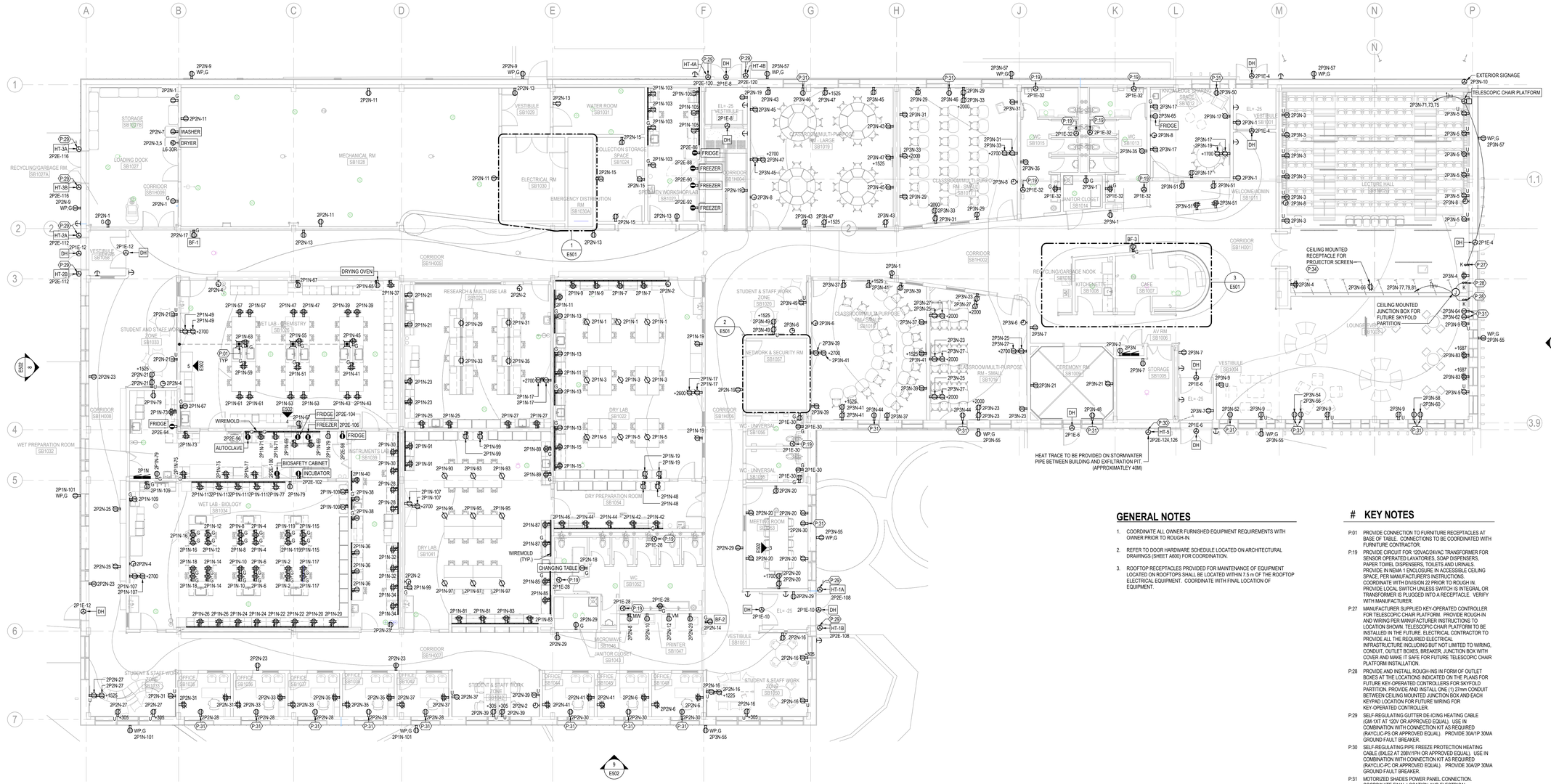
Polaris Project

Title
FIRE ALARM AND LIGHTING CONTROL ZONE KEY

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E100**

ORIGINAL SHEET - ISO A0



1 POWER AND FIRE ALARM PLAN - OVERALL

E201 1 : 100

GENERAL NOTES

1. COORDINATE ALL OWNER FURNISHED EQUIPMENT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
2. REFER TO DOOR HARDWARE SCHEDULE LOCATED ON ARCHITECTURAL DRAWINGS (SHEET A600) FOR COORDINATION.
3. ROOFTOP RECEPTACLES PROVIDED FOR MAINTENANCE OF EQUIPMENT LOCATED ON ROOFTOPS SHALL BE LOCATED WITHIN 7.5 m OF THE ROOFTOP ELECTRICAL EQUIPMENT. COORDINATE WITH FINAL LOCATION OF EQUIPMENT.

KEY NOTES

P:01 PROVIDE CONNECTION TO FURNITURE RECEPTACLES AT BASE OF TABLE. CONNECTIONS TO BE COORDINATED WITH FURNITURE CONTRACTOR.

P:19 PROVIDE CIRCUIT FOR 120VAC/24VAC TRANSFORMER FOR SENSOR OPERATED LAVATORIES, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILETS AND URINALS. PROVIDE IN NEMA 1 ENCLOSURE IN ACCESSIBLE CEILING SPACE, PER MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH DIVISION 22 PRIOR TO ROUGH IN. PROVIDE LOCAL SWITCH UNLESS SWITCH IS INTEGRAL OR TRANSFORMER IS PLUGGED INTO A RECEPTACLE. VERIFY WITH MANUFACTURER.

P:27 MANUFACTURER SUPPLIED KEY-OPERATED CONTROLLER FOR TELESCOPIC CHAIR PLATFORM. PROVIDE ROUGH-IN AND WIRING PER MANUFACTURER INSTRUCTIONS TO LOCATION SHOWN. TELESCOPIC CHAIR PLATFORM TO BE INSTALLED IN THE FUTURE. ELECTRICAL CONTRACTOR TO PROVIDE ALL THE REQUIRED ELECTRICAL INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, OUTLET BOXES, BREAKER, JUNCTION BOX WITH COVER AND MAKE IT SAFE FOR FUTURE TELESCOPIC CHAIR PLATFORM INSTALLATION.

P:28 PROVIDE AND INSTALL ROUGH-INS IN FORM OF OUTLET BOXES AT THE LOCATIONS INDICATED ON THE PLANS FOR FUTURE KEY-OPERATED CONTROLLERS FOR SKYFOLD PARTITION. PROVIDE AND INSTALL ONE (1) 27mm CONDUIT BETWEEN CEILING MOUNTED JUNCTION BOX AND EACH KEYPAD LOCATION FOR FUTURE WIRING FOR KEY-OPERATED CONTROLLER.

P:29 SELF-REGULATING GUTTER DE-ICING HEATING CABLE (GM-1XT AT 120V OR APPROVED EQUAL). USE IN COMBINATION WITH CONNECTION KIT AS REQUIRED (RAYCLIC-PS OR APPROVED EQUAL). PROVIDE 30A/1P 30MA GROUND FAULT BREAKER.

P:30 SELF-REGULATING PIPE FREEZE PROTECTION HEATING CABLE (MI-E2 AT 208V/1PH OR APPROVED EQUAL). USE IN COMBINATION WITH CONNECTION KIT AS REQUIRED (RAYCLIC-PC OR APPROVED EQUAL). PROVIDE 30A/2P 30MA GROUND FAULT BREAKER.

P:31 MOTORIZED SHADES POWER PANEL CONNECTION. COORDINATE FINAL LOCATION AND ELECTRICAL REQUIREMENTS WITH SUBMITTAL DRAWINGS PRIOR TO ROUGH-IN.

P:34 PROVIDE AND INSTALL ONE (1) CEILING MOUNTED RECEPTACLE AT THE LOCATION SHOWN ON THE PLANS FOR PROJECTOR SCREEN. COORDINATE THE FINAL LOCATION OF CEILING MOUNTED RECEPTACLE WITH ARCHITECT PRIOR TO COMMENCING THE WORK.

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Notes

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3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 70% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16
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	ED, JC	BS, JC	CC	2024.05.06
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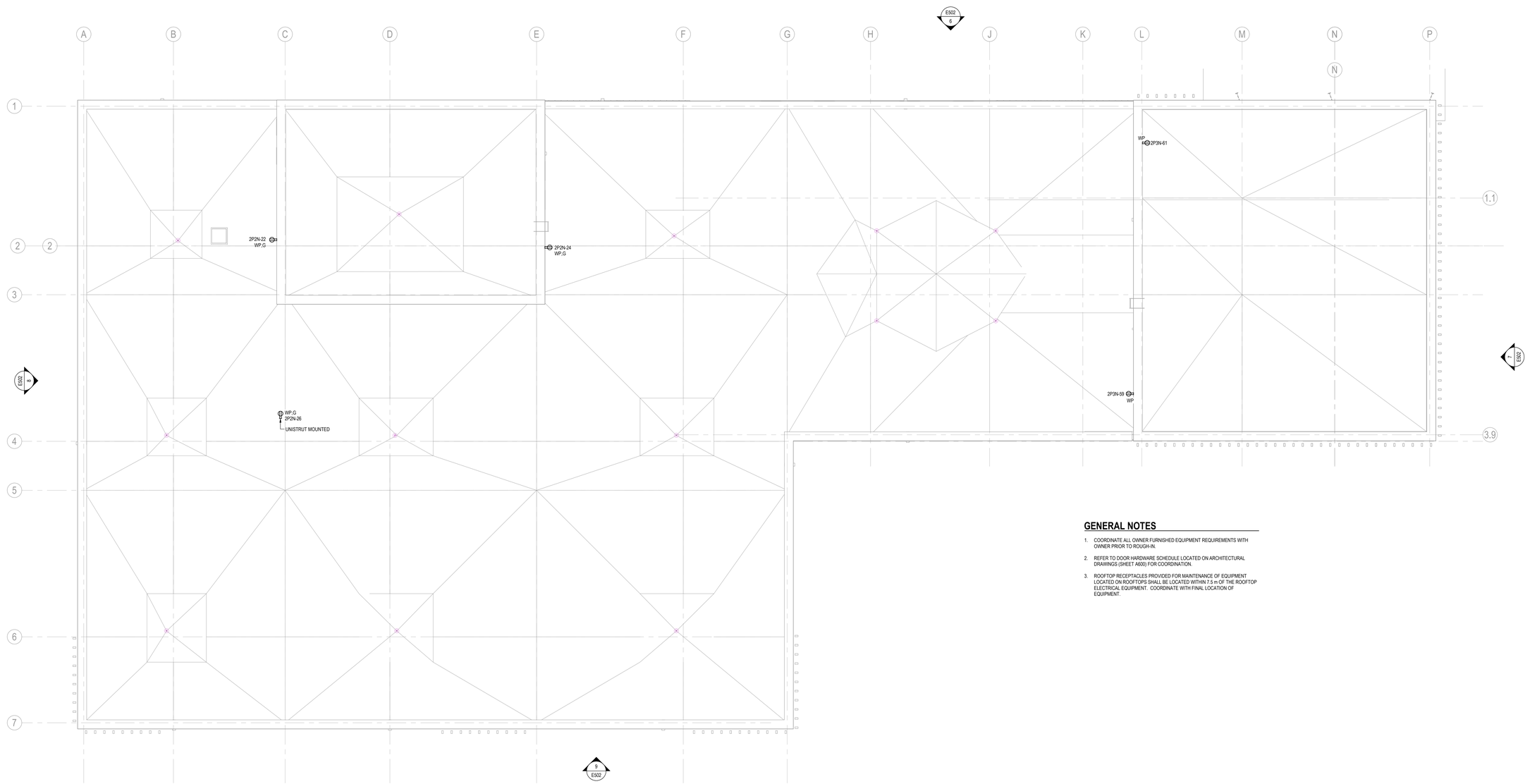
Client/Project
Yukon University
Polaris Project

Title
LEVEL 1 - POWER FLOOR PLAN - OVERALL

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E201**

ORIGINAL SHEET - ISO A0



GENERAL NOTES

1. COORDINATE ALL OWNER FURNISHED EQUIPMENT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
2. REFER TO DOOR HARDWARE SCHEDULE LOCATED ON ARCHITECTURAL DRAWINGS (SHEET A600) FOR COORDINATION.
3. ROOFTOP RECEPTACLES PROVIDED FOR MAINTENANCE OF EQUIPMENT LOCATED ON ROOFTOPS SHALL BE LOCATED WITHIN 7.5 m OF THE ROOFTOP ELECTRICAL EQUIPMENT. COORDINATE WITH FINAL LOCATION OF EQUIPMENT.

1 / E202 POWER ROOF PLAN - OVERALL

1 : 100

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Keyplans

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4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 70% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16
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	ED, JC	BS, JC	CC	2024.05.06
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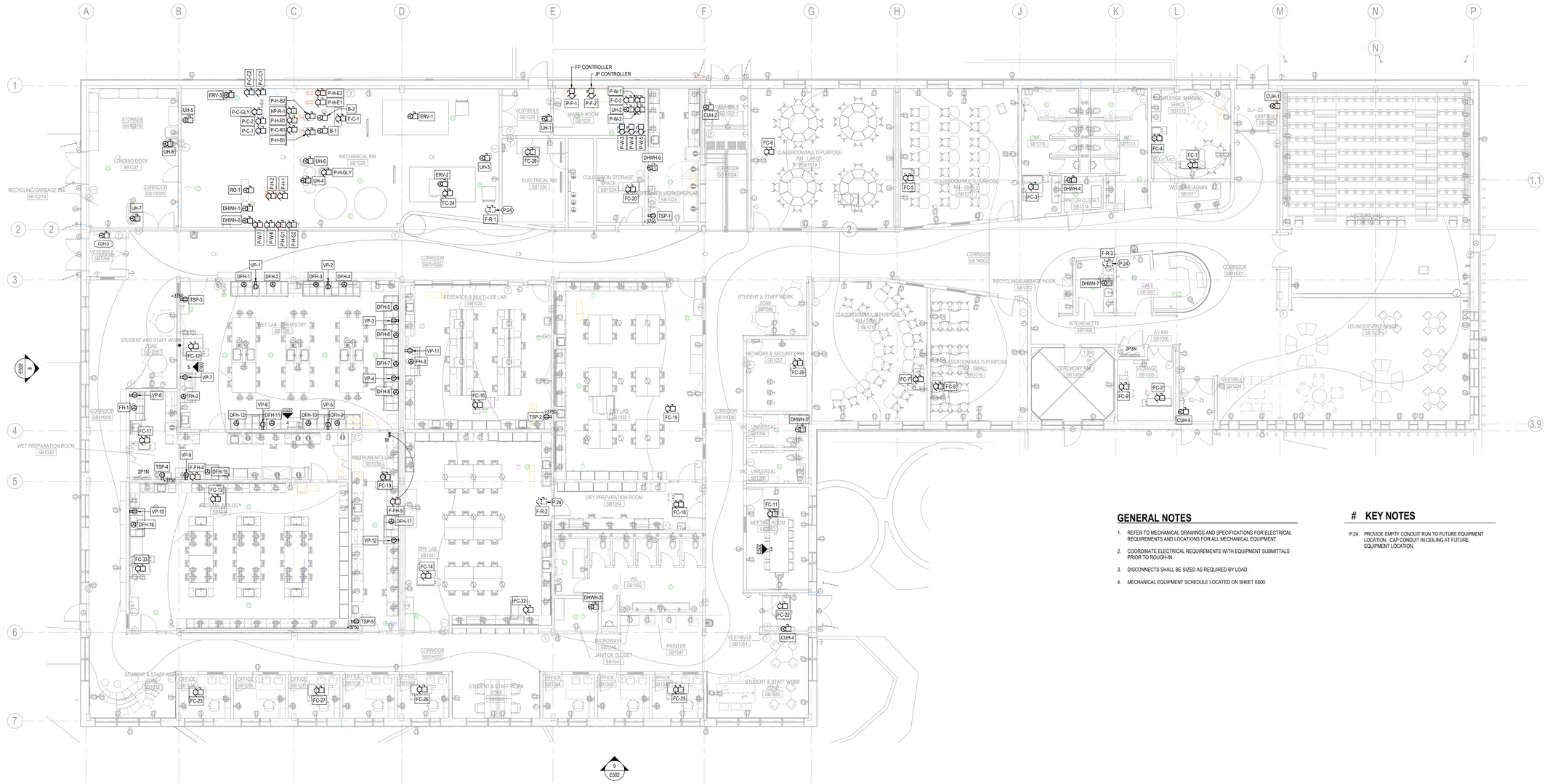
Client/Project
Yukon University
Polaris Project

Title
ROOF - POWER FLOOR PLAN - OVERALL

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E202**

ORIGINAL SHEET - ISO A0



GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND LOCATIONS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
3. DISCONNECTS SHALL BE SIZED AS REQUIRED BY LOAD.
4. MECHANICAL EQUIPMENT SCHEDULE LOCATED ON SHEET E600.

KEY NOTES

P.24 PROVIDE EMPTY CONDUIT RUN TO FUTURE EQUIPMENT LOCATION. CAP CONDUIT IN CEILING AT FUTURE EQUIPMENT LOCATION.

1 E211 **POWER AND FIRE ALARM PLAN - OVERALL**

1 : 100

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Keyplans

Notes

A	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
2	ISSUED FOR SITE SUBMISSION	BS	TF	2023.01.25
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Client/Project
Yukon University
Polaris Project

Title
LEVEL 1 - MECH-POWER FLOOR PLAN - OVERALL

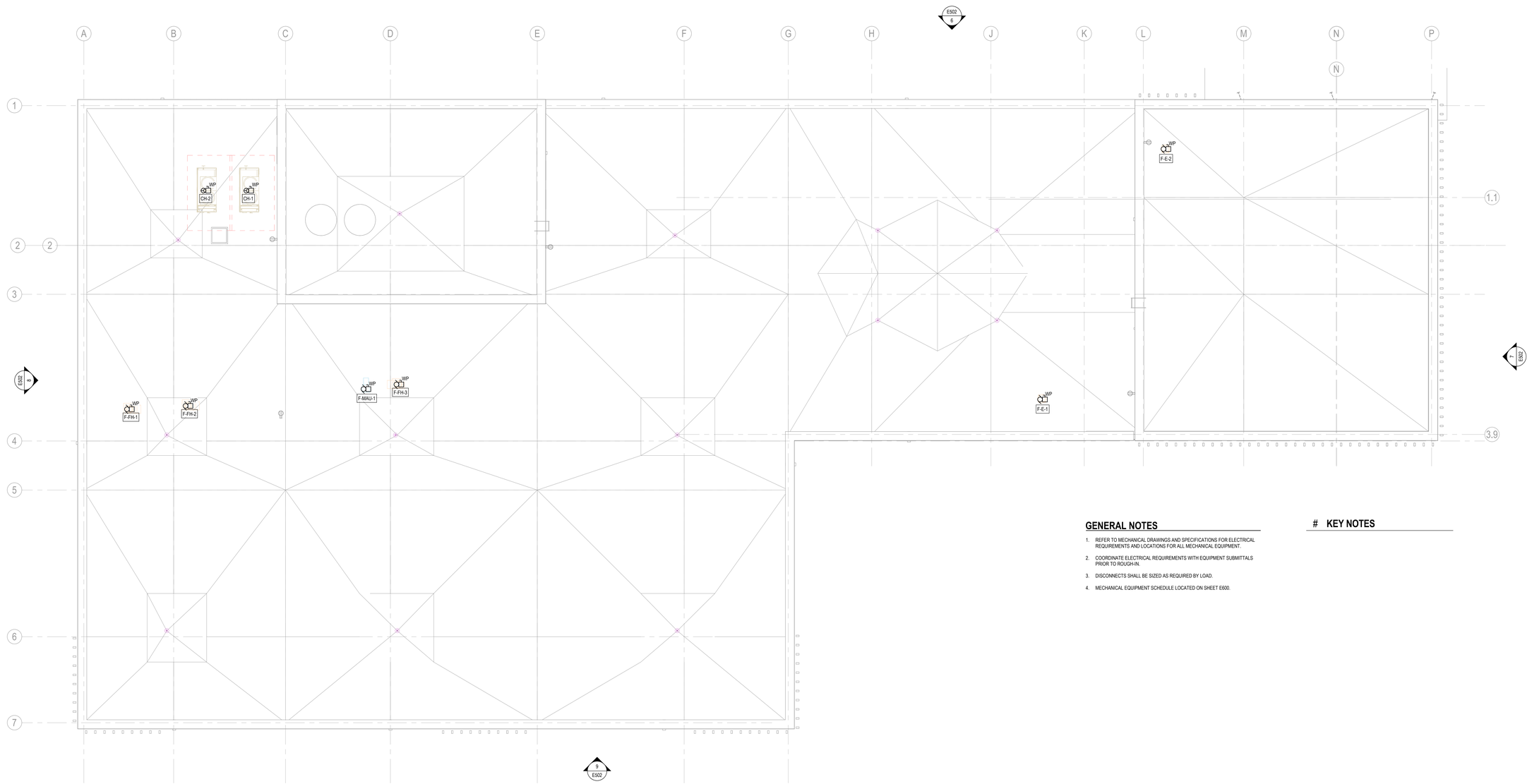
Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **E211**

ORIGINAL SHEET - ISO A0



GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND LOCATIONS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
3. DISCONNECTS SHALL BE SIZED AS REQUIRED BY LOAD.
4. MECHANICAL EQUIPMENT SCHEDULE LOCATED ON SHEET E600.

KEY NOTES

1 E212 POWER ROOF PLAN - OVERALL

1 : 100

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Notes

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6 RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5 ISSUED FOR TENDER	JC	TF	2024.05.06
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Client/Project
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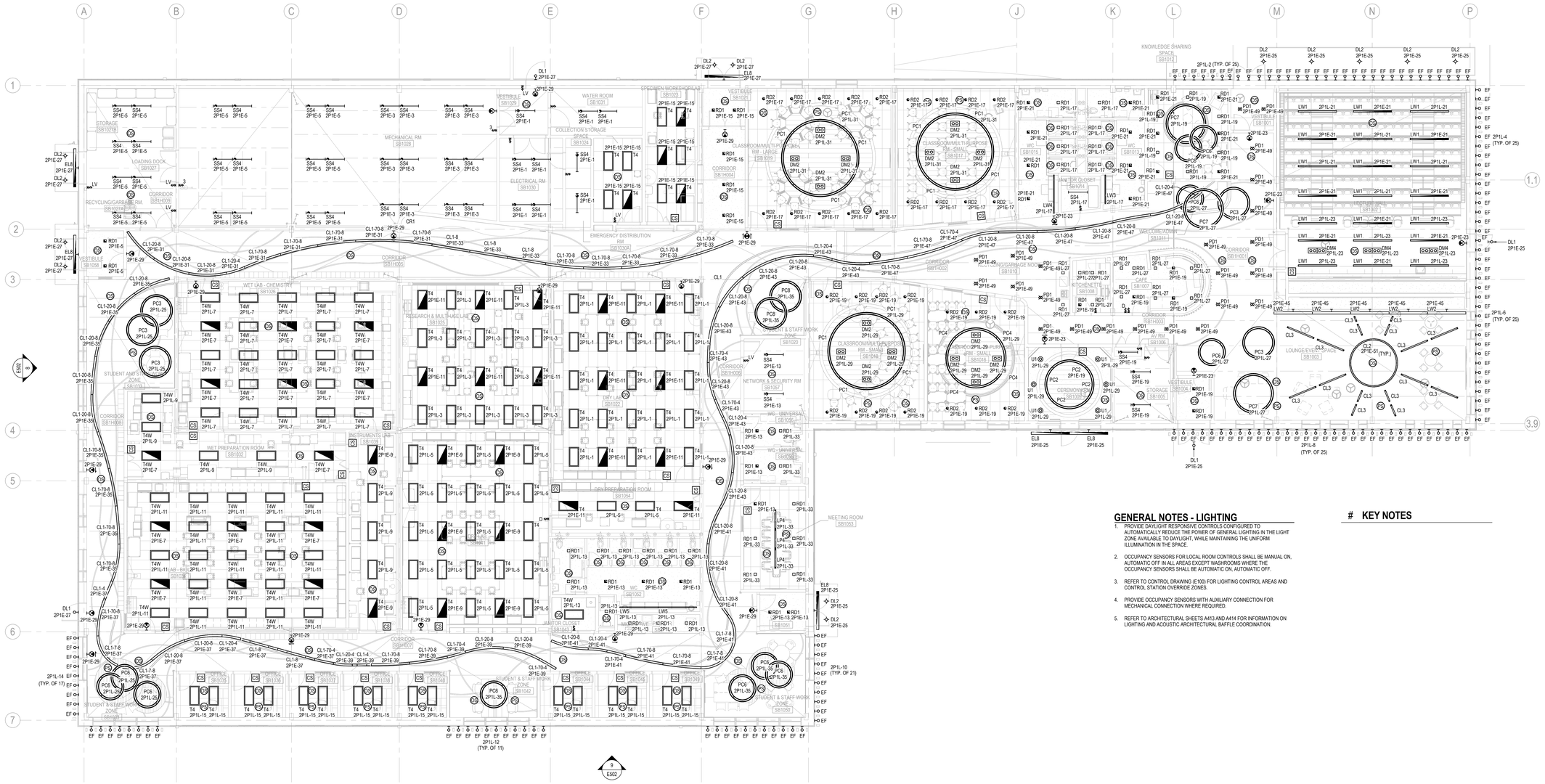
Polaris Project

Title
ROOF - MECH-POWER FLOOR PLAN - OVERALL

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E212**

ORIGINAL SHEET - ISO A0



1 LIGHTING RCP - OVERALL
E301 1 : 100

GENERAL NOTES - LIGHTING

1. PROVIDE DAYLIGHT RESPONSIVE CONTROLS CONFIGURED TO AUTOMATICALLY REDUCE THE POWER OF GENERAL LIGHTING IN THE LIGHT ZONE AVAILABLE TO DAYLIGHT, WHILE MAINTAINING THE UNIFORM ILLUMINATION IN THE SPACE.
2. OCCUPANCY SENSORS FOR LOCAL ROOM CONTROLS SHALL BE MANUAL ON, AUTOMATIC OFF IN ALL AREAS EXCEPT WASHROOMS WHERE THE OCCUPANCY SENSORS SHALL BE AUTOMATIC ON, AUTOMATIC OFF.
3. REFER TO CONTROL DRAWING (E100) FOR LIGHTING CONTROL AREAS AND CONTROL STATION OVERRIDE ZONES.
4. PROVIDE OCCUPANCY SENSORS WITH AUXILIARY CONNECTION FOR MECHANICAL CONNECTION WHERE REQUIRED.
5. REFER TO ARCHITECTURAL SHEETS A413 AND A414 FOR INFORMATION ON LIGHTING AND ACOUSTIC ARCHITECTURAL BAFFLE COORDINATION.

KEY NOTES

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Keyplans

Notes

Issued & Revision				
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5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
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1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16
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Client/Project
Yukon University
Polaris Project

Title
LEVEL 1 - LIGHTING RCP - OVERALL

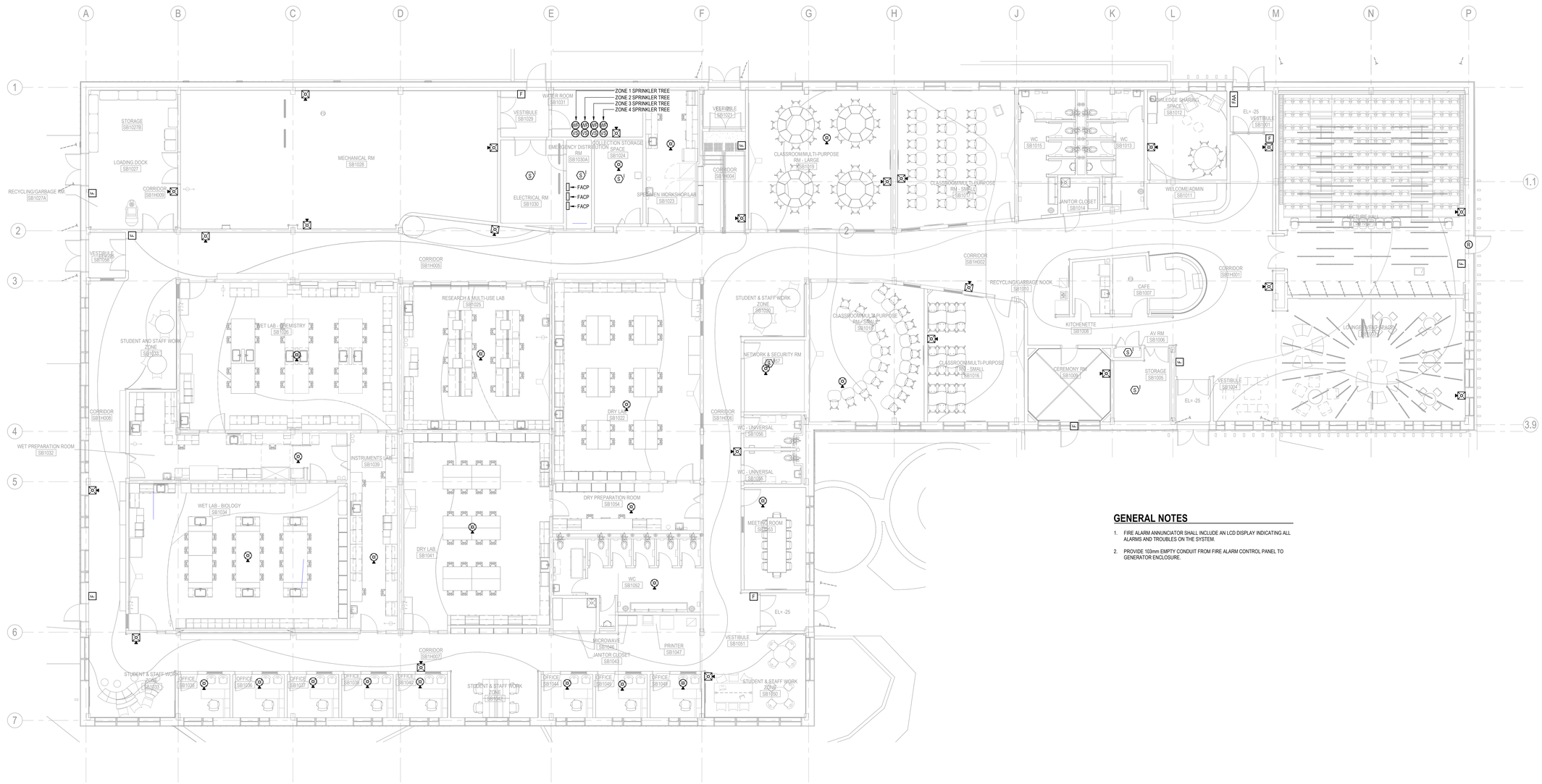
Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E301**

ORIGINAL SHEET - ISO A0

PRICING NOTE:

FIRE ALARM SYSTEM TO BE INSTALLED AS A 2-STAGE FIRE ALARM SYSTEM, BUT SHALL OPERATE AS A SINGLE STAGE FIRE ALARM SYSTEM UPON INITIAL COMPLETION OF BUILDING.

TRUE NORTH



GENERAL NOTES

1. FIRE ALARM ANNUNCIATOR SHALL INCLUDE AN LCD DISPLAY INDICATING ALL ALARMS AND TROUBLES ON THE SYSTEM.
2. PROVIDE 103mm EMPTY CONDUIT FROM FIRE ALARM CONTROL PANEL TO GENERATOR ENCLOSURE.

1 / E401 **FIRE ALARM PLAN - OVERALL**

1 : 100

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Client/Project Logo

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.25
Issued & Revision		By	Appd	YYYY.MM.DD

ED. JC	BS. JC	CC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
LEVEL 1 - FIRE ALARM FLOOR PLAN - OVERALL

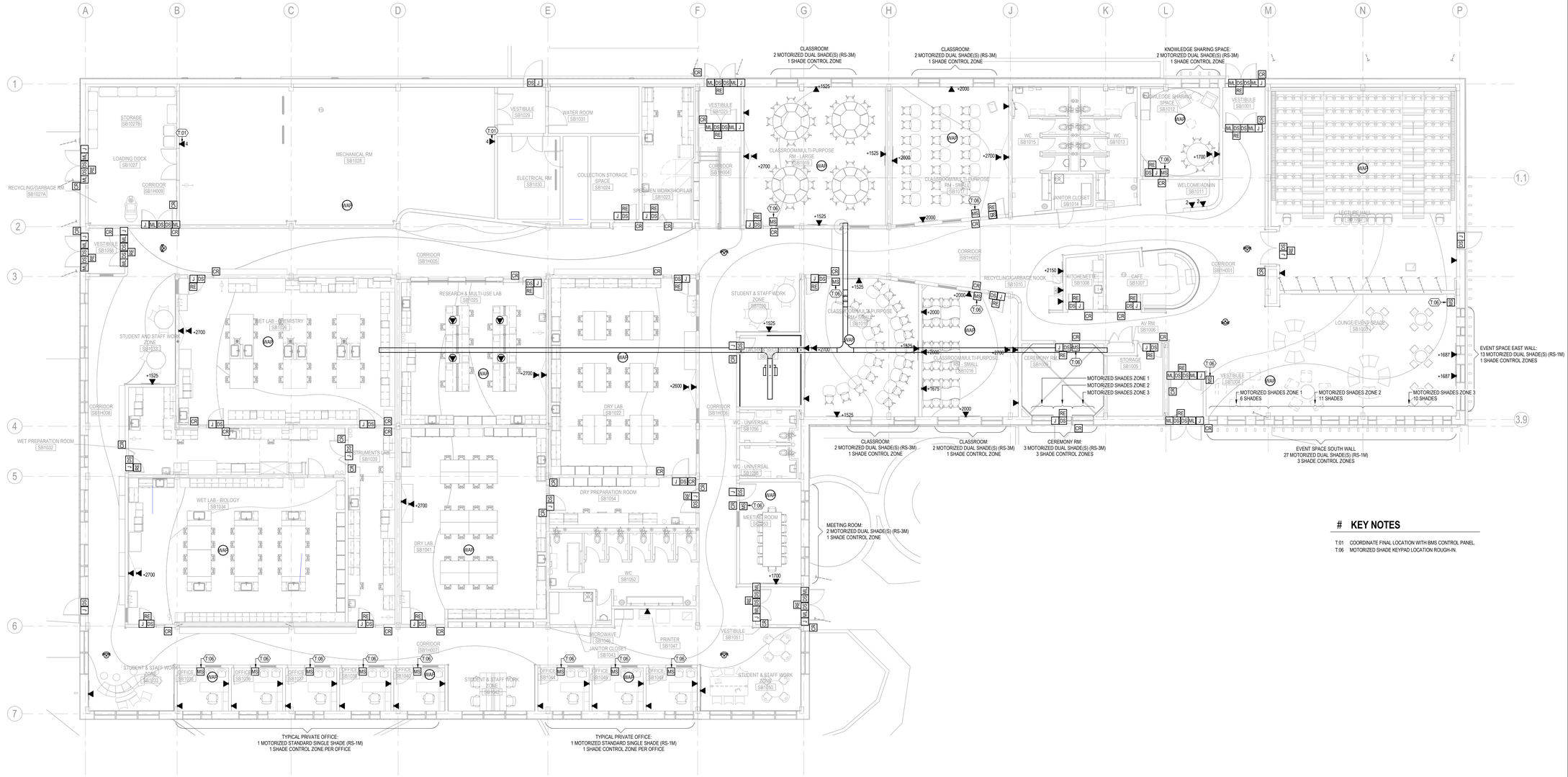
Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **E401**

ORIGINAL SHEET - ISO A0



KEY NOTES

T.01 COORDINATE FINAL LOCATION WITH BMS CONTROL PANEL.
T.06 MOTORIZED SHADE KEYPAD LOCATION ROUGH-IN.

1 / E411 ICT & SECURITY PLAN - OVERALL

1 : 100

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3	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23

Issued & Revision

ED, JC	BS, JC	CC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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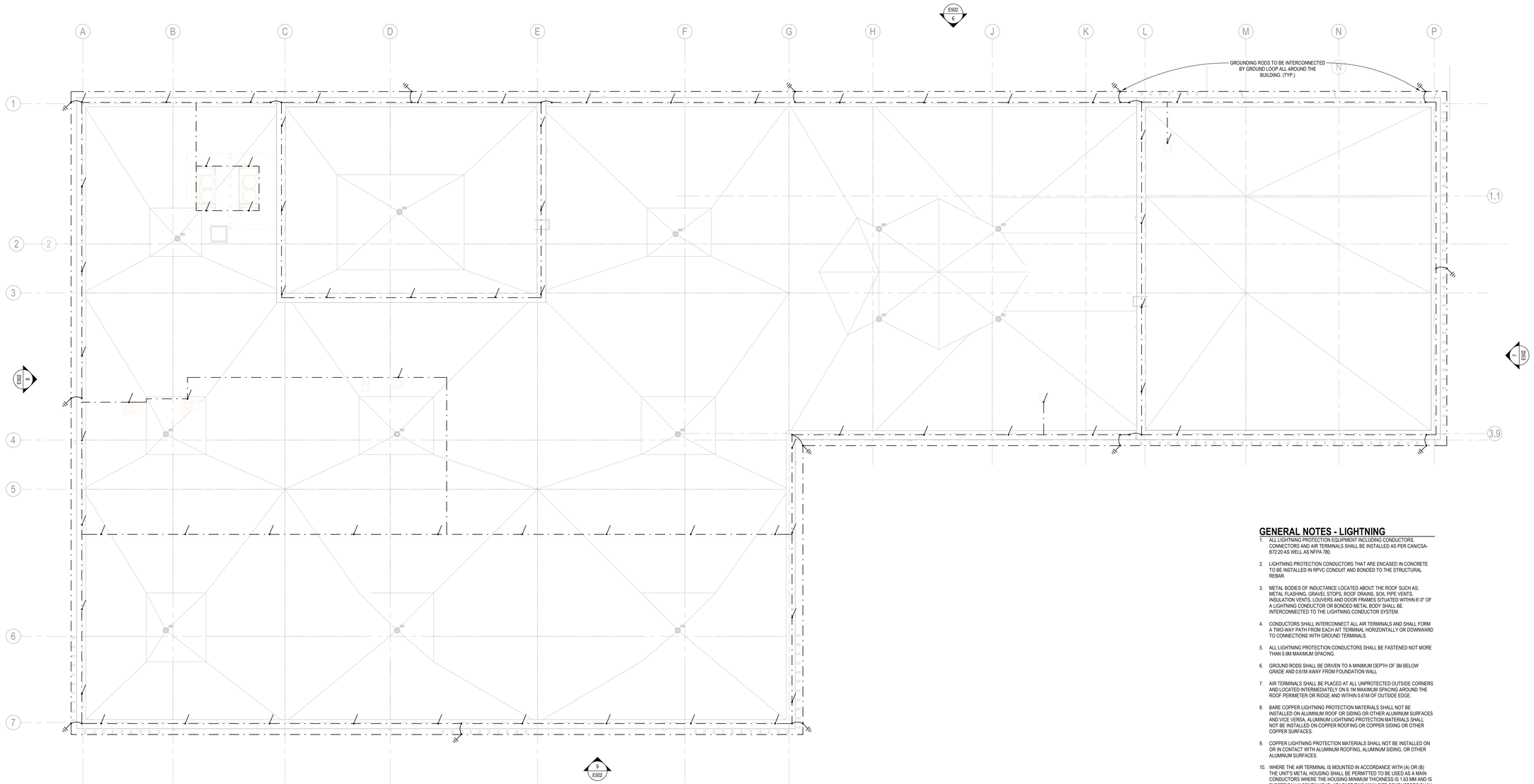
Client/Project
Yukon University
Polaris Project

Title
LEVEL 1 - ICT AND SECURITY FLOOR PLAN - OVERALL

Project No. 144214760
Scale 1 : 100
Revision 6
Drawing No. **E411**

ORIGINAL SHEET - ISO A0



1 E421 LIGHTNING PROTECTION ROOF PLAN - OVERALL

1 : 100

GENERAL NOTES - LIGHTNING

1. ALL LIGHTNING PROTECTION EQUIPMENT INCLUDING CONDUCTORS, CONNECTORS AND AIR TERMINALS SHALL BE INSTALLED AS PER CAN/CSA-B72:20 AS WELL AS NFPA 780.
2. LIGHTNING PROTECTION CONDUCTORS THAT ARE ENCASED IN CONCRETE TO BE INSTALLED IN RPVC CONDUIT AND BONDED TO THE STRUCTURAL REBAR.
3. METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
4. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIT TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
5. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 0.9M MAXIMUM SPACING.
6. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 3M BELOW GRADE AND 0.61M AWAY FROM FOUNDATION WALL.
7. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 6.1M MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 0.61M OF OUTSIDE EDGE.
8. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA. ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
9. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON OR IN CONTACT WITH ALUMINUM ROOFING, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES.
10. WHERE THE AIR TERMINAL IS MOUNTED IN ACCORDANCE WITH (A) OR (B) THE UNIT'S METAL HOUSING SHALL BE PERMITTED TO BE USED AS A MAIN CONDUCTORS WHERE THE HOUSING MINIMUM THICKNESS IS 1.63 MM AND IS ELECTRICALLY CONTINUOUS. AT LEAST TWO MAIN-SIZE CONDUCTORS SHALL BE INSTALLED TO CONNECT THE UNIT TO THE LIGHTNING PROTECTION SYSTEM. THE CONNECTION SHALL BE MADE TO BARE METAL AT THE BASE OR LOWER EDGES OF THE UNIT USING MAIN-SIZE LIGHTNING CONDUCTORS AND BONDING DEVICES THAT HAVE A SURFACE CONTACT AREA OF NOT LESS THAN 1940 MM2 AND SHALL PROVIDE TWO OR MORE PATHS TO GROUND, AS IS REQUIRED FOR STRIKE TERMINATION DEVICES.
11. REFER TO CSA-B72 TABLE 2 FOR CLASS II INSTALLATION FOR WIRE SIZES AND MATERIAL REQUIREMENTS.
12. THE ENTIRE LIGHTNING PROTECTION SYSTEM, EXCLUDING INTERCONNECTION WITH METALLIC BODIES, SHALL PROVIDE A RESISITANCE TO GROUND OF LESS THAN 50 OHMS.
13. AIR TERMINALS SHALL BE MOUNTED TO METAL MECHANICAL ROOF TOP UNITS BY USING ONE OF THE FOLLOWING METHODS:
    A. SECURED ON BASES HAVING A MINIMUM CONTACT AREA OF 1940 MM2 , EACH TO THE BARE METAL OF THE UNIT'S HOUSING USING MECHANICAL FASTENERS.
    B. ADHERED WITH ADHESIVE BASES TO THE METAL UNITS HOUSING.
    C. DRILLED, TAPPED, AND SCREWED DIRECTLY INTO THE UNIT'S. DRILLING AND TAPPING THE METAL FRAMEWORK TO ACCEPT A THREADED CONNECTOR ALSO SHALL BE PERMITTED. THE THREADED DEVICE SHALL BE INSTALLED WITH AT LEAST FIVE THREADS FULLY ENGAGED AND SECURED WITH A JAM NUT OR EQUIVALENT.
14. REFER TO DETAILS ON SHEET E806.

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Keyplans

Notes

6	IFR-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR IFR SUBMISSION	JC	TF	2024.02.09
Issued & Revision		By	Appd	YYYY.MM.DD

	ED. JC	BS. JC	CC	2024.05.06
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Title
ROOF - LIGHTNING PROTECTION SYSTEM FLOOR PLAN - OVERALL

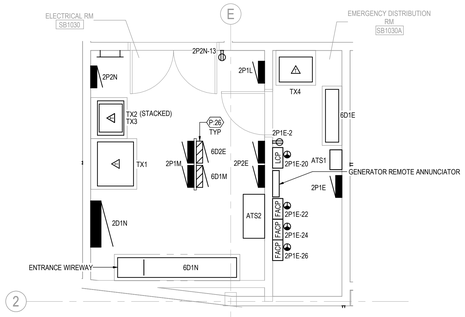
Project No. 144214760

Scale As indicated

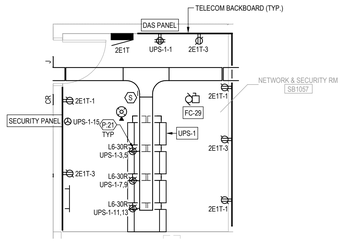
Revision 6

Drawing No. **E421**

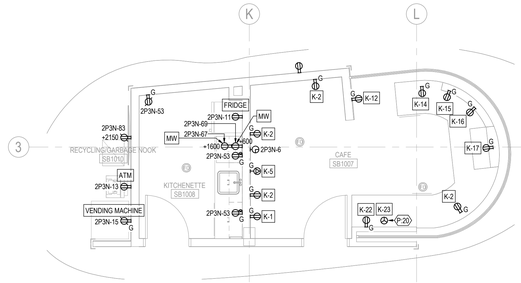
ORIGINAL SHEET - ISO A2



1 MAIN ELECTRICAL ROOM
E501 1 : 50



2 NETWORK & SECURITY RM (SB1057)
E501 1 : 50



3 CAFE SB1007
E501 1 : 50

GENERAL NOTES - CAFE

1. PROVIDE GFCI PROTECTION FOR ALL 120V, 15A AND 20A RECEPTACLES AND 208V, 30A RECEPTACLES IN CAFE AREA.
2. VERIFY EQUIPMENT ELECTRICAL REQUIREMENTS WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
3. VERIFY ELECTRICAL CONNECTION MOUNTING HEIGHT AND LOCATION WITH CAFE EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.

KITCHEN EQUIPMENT SCHEDULE

EQUIP ID	EQUIPMENT DESCRIPTION	MOUNTING HEIGHT	ELECTRICAL DATA	MOCP	CONDUCTOR	CONNECTION TYPE	PANEL	CIRCUIT #	NOTES
K-1	MOBILE HEATED CART	500	Primary 120 V/1-240 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	12	1
K-2	SS COUNTER CONV.	1250	Primary 120 V/1-500 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	14	
K-2	SS COUNTER CONV.	1250	Primary 120 V/1-500 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	16	
K-2	SS COUNTER CONV.	1250	Primary 120 V/1-500 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	20	
K-2	SS COUNTER CONV.	1250	Primary 120 V/1-500 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	18	
K-5	COUNTERTOP OVEN	1250	208 V/2-4992 VA	30 A	21mm.C - 2#10, 1#10G.	NEMA 6-30R	2P3N	22,24	1
K-12	REFRIGERATOR DISPLAY CASE	500	Primary 120 V/1-1920 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	26	1
K-14	HEATED DISPLAY CASE	457	Primary 120 V/1-1440 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	28	1
K-15	COUNTERTOP WARMER	457	Primary 120 V/1-840 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	30	1
K-16	POS TERMINAL	457	Primary 120 V/1-500 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	32	1
K-17	REFRIGERATOR DISPLAY CASE	305	Primary 120 V/1-1440 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	34	1
K-22	UNDERCOUNTER COOLER	457	Primary 120 V/1-480 VA	20 A	21mm.C - 2#12, 1#12G.	NEMA 5-20R	2P3N	36	1
K-23	COFFEE BREWER		208 V/3-5408 VA	35 A	21mm.C - 3#8, 1#10G.	HARDWIRED	2P3N	38,40,42	1, 2

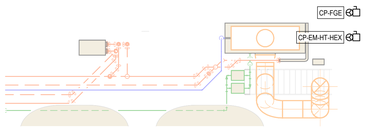
NOTES:
1. PROVIDE GFCI CIRCUIT BREAKER.
2. PROVIDE WITH NEUTRAL CONDUCTOR.

KEY NOTES

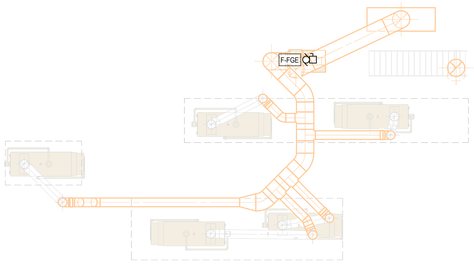
P:20 PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION BY A LOCK-OFF DEVICE AND BE CLEARLY LABELED TO DESCRIBE THE LOAD.

P:21 MOUNT RECEPTACLE(S) IN WIREMOLD RACEWAY ABOVE THE REAR OF THE EQUIPMENT RACK.

P:26 PROVIDE UNISTRUT PANEL SUPPORTS.



4 ECONOMIZER - ENERGY CENTER - LOWER LEVEL
E501 1 : 75



5 ECONOMIZER - ENERGY CENTER - MAIN FLOOR
E501 1 : 75

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND LOCATIONS FOR ALL MECHANICAL EQUIPMENT.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
3. DISCONNECTS SHALL BE SIZED AS REQUIRED BY LOAD.
4. MECHANICAL EQUIPMENT SCHEDULE LOCATED ON SHEET E600.

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23
Issued & Revision		By	Appd	YYYY.MM.DD

	ED. JC	BS. JC	CC	2024.05.06
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Polaris Project

Title
ENLARGED PLANS

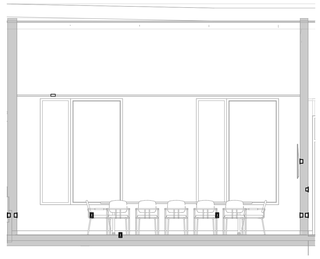
Project No. 144214760

Scale As indicated

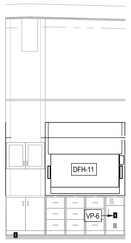
Revision 6

Drawing No. **E501**

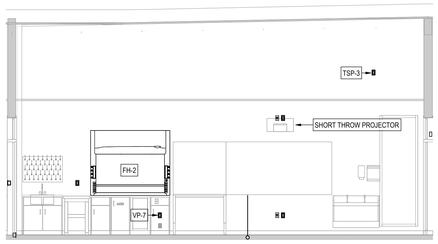
ORIGINAL SHEET - ISO A0



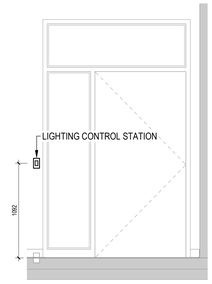
3 E502 **INT. ELEVATION - MEETING ROOM**
1 : 50



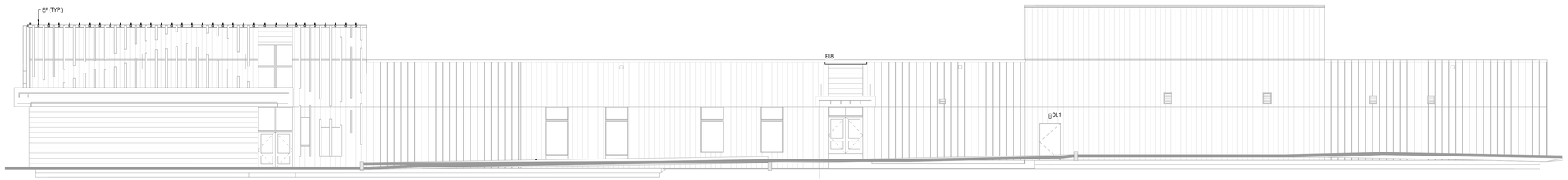
4 E502 **INT. ELEVATION - STUDENT FUMEHOOD (TYP.)**
1 : 50



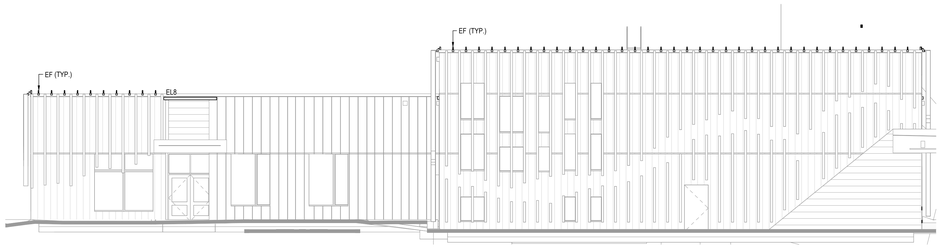
5 E502 **INT. ELEVATION - TEACHING FUMEHOOD AND TEACHING WALL (TYP.)**
1 : 50



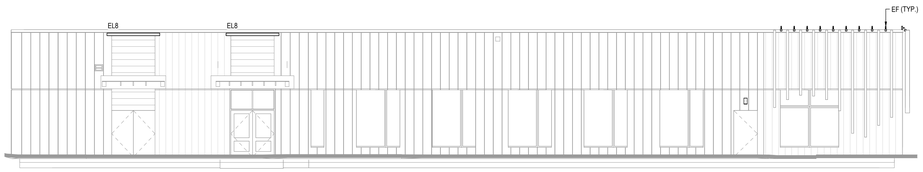
1 E502 **TYPICAL LIGHTING CONTROL STATION**
1 : 25



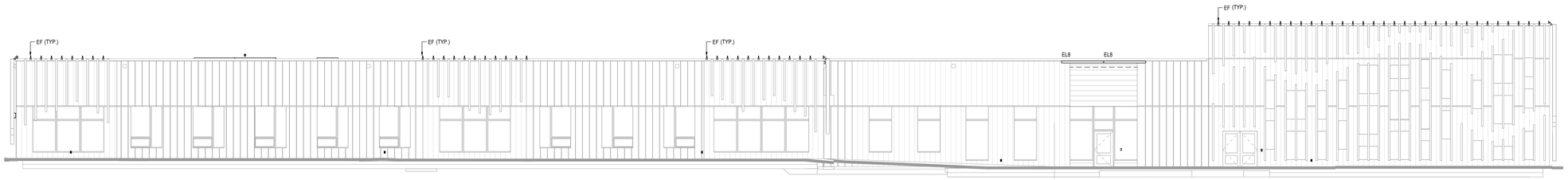
6 E502 **EXTERIOR ELEVATION - NORTH WALL**
1 : 100



7 E502 **EXTERIOR ELEVATION - EAST WALL**
1 : 100



8 E502 **EXTERIOR ELEVATION - WEST WALL**
1 : 100



9 E502 **EXTERIOR ELEVATION - SOUTH WALL**
1 : 100

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Keyplans

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Issued & Revision		By	Appd.	YYYY.MM.DD

	ED, JC	BS, JC	CC	2024.05.06
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Polaris Project

Title
INTERIOR AND EXTERIOR ELEVATIONS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E502**

ORIGINAL SHEET - ISO A0

SCHEMATICS

CABLE IDENTIFICATION, TABLE

C01 — 3 | 1 | 1

- CIRCUIT IDENTIFICATION, SEE FEEDER TABLE
  - A = ALUMINUM
  - C = COPPER
  - M = METAL CLAD
- QUANTITY OF GROUND CONDUCTORS, SIZE PER FEEDER TABLE
  - 0 = NOT REQUIRED
  - 1 = 1 GROUND CONDUCTOR
  - 2 = 1 GROUND CONDUCTOR AND 1 ISOLATED GROUND CONDUCTOR
- QUANTITY OF NEUTRAL CONDUCTORS, SIZE PER FEEDER TABLE
  - 0 = NOT REQUIRED
  - 1 = 1 NEUTRAL CONDUCTOR
  - 2 = 2 NEUTRAL CONDUCTORS
- QUANTITY OF PHASE CONDUCTORS, SIZE PER FEEDER TABLE

CABLE IDENTIFICATION, TEXT

[4 #12+ 1 #12G, [SIZE]C]

- CONDUIT SIZE
- QUANTITY AND SIZE OF GROUNDS
- QUANTITY AND SIZE OF CONDUCTORS

CABLE IDENTIFICATION, TEXT — CONDUIT SIZE

[4 SETS (3x1/C 600 kcmil +1 #3/0G, Cu, 15kV, 133%, TR-XLPE, [SIZE]C)]

- CABLE TYPE
- INSULATION LEVEL
- INSULATION VOLTS
- MATERIAL
- QUANTITY AND SIZE OF GROUNDS
- QUANTITY AND SIZE OF CONDUCTORS
- QUANTITY OF SETS

#×1/C — SINGLE CONDUCTOR CABLE, # INDICATES QUANTITY OF CABLES

#/C — MULTI-CONDUCTOR CABLE, # INDICATES QUANTITY OF CONDUCTORS

— SHORT CIRCUIT CURRENT RATING, # INDICATES RATING

BUS DUCT

BUS

FEEDER

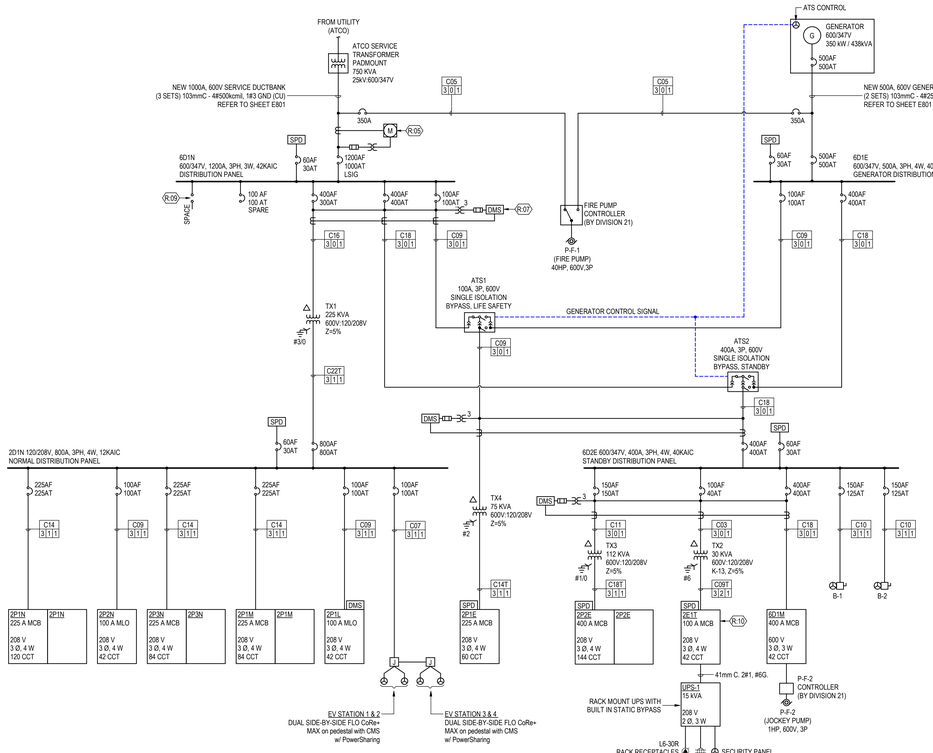
NAME	NAME	NAME	NAME	NAME
LOCATION	LOCATION		LOCATION	LOCATION
225 A MCB	225 A MCB		225 A MCB	225 A MCB
480 V	480 V		480 V	480 V
3 Ø, 4 W	3 Ø, 4 W		3 Ø, 4 W	3 Ø, 4 W
42 CCT	42 CCT		42 CCT	42 CCT
PANEL, SINGLE TUB	PANEL, DOUBLE TUB, MAIN LUGS		PANEL, DOUBLE TUB, FEED THRU LUGS	

SCHEMATICS

- AC/DC INVERTER
- AUTOTRANSFORMER
- AUTOMATIC TRANSFER SWITCH, DUAL BYPASS
- AUTOMATIC TRANSFER SWITCH, SINGLE BYPASS
- BATTERY
- BIMETALLIC THERMAL OVERLOAD
- CAPACITOR
- CIRCUIT BREAKER, LOW VOLTAGE, DRAW OUT
- CIRCUIT BREAKER, LOW VOLTAGE, FIXED
- CIRCUIT BREAKER, LOW VOLTAGE, WITH LIMITER
- CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAW OUT
- CIRCUIT BREAKER, MEDIUM VOLTAGE, FIXED
- CIRCUIT BREAKER, MEDIUM VOLTAGE, VACUUM INTERRUPTER
- CONNECTION, CONNECTED
- CONNECTION, DRAW OUT, DISCONNECTED
- CONNECTION, FEED FROM/TO
- CONNECTION, SPLICE
- CONTACT
- CURRENT TRANSFORMER
- DEAD BREAK ELBOW
- DRAW OUT FUSE AND POTENTIAL TRANSFORMER
- FUSE
- FUSED CUTOUT
- GROUND
- GROUND STUD
- INDUCTOR
- LIGHTNING ARRESTOR, GAP TYPE
- LIGHTNING ARRESTOR, MOV TYPE
- LOAD BREAK ELBOW
- NOT CONNECTED
- POTENTIAL TRANSFORMER
- POTHEAD
- STRESS CONE
- SWITCH, FUSED LOAD BREAK
- SWITCH, NON-FUSED LOAD BREAK
- SWITCH, NON-FUSED DOUBLE LOAD BREAK
- SWITCH, NON-FUSED LOAD BREAK WITH GROUNDING POSITION
- RESISTOR
- ? — TERMINAL BLOCK

SCHEMATICS

- TRANSFER SWITCH
- TRANSFORMER
- TRANSFORMER CONFIGURATION, DELTA
- TRANSFORMER CONFIGURATION, DELTA, CORNER GROUND
- TRANSFORMER CONFIGURATION, DELTA, OPEN
- TRANSFORMER CONFIGURATION, WYE
- TRANSFORMER CONFIGURATION, WYE, INDUCTOR, CURRENT TRANSFORMER, GROUND
- TRANSFORMER CONFIGURATION, WYE, RESISTOR, CURRENT TRANSFORMER, GROUND
- TRANSFORMER CONFIGURATION, WYE, RESISTOR, GROUND
- TRANSFORMER CONFIGURATION, WYE, SOLID GROUND
- TRANSFORMER CONFIGURATION, ZIGZAG
- ZERO SEQUENCE CURRENT TRANSFORMER
- 50 — RELAY, SINGLE FUNCTION
- 50/51 — RELAY, DUAL FUNCTION
- 50 50 50 / 50 50 50 — RELAY, MULTIFUNCTION
- A — AMMETER
- AS — AMPERAGE METER SWITCH
- DMS — DIGITAL METERING SYSTEM
- G — GENERATOR
- K — KEY OPERATED SWITCH
- LSIG — RELAY, TRIP UNIT
- LSIG — DRAW OUT BREAKER C/W INTEGRAL SOLID STATE TRIP UNIT
- LSIG — DRAW OUT BREAKER C/W SERIES ELECTROMECHANICAL TRIP UNIT
- M — INLINE SOCKET METER
- METER — METER
- O/L — ELECTRONIC THERMAL OVERLOAD
- SB — SHORTING BLOCK
- SPACE — SPACE, DRAW OUT BREAKER
- SPACE — SPACE, FIXED BREAKER
- SPD — SURGE PROTECTION DEVICE
- TS — TEST SWITCH
- V — VOLTMETER
- VS — VOLTAGE METER SWITCH
- INDICATOR, VOLTAGE PRESENT



1 / E601 **SINGLE-LINE DIAGRAM**
N.T.S.

COPPER FEEDERS

ID	NOMINAL CIRCUIT RATING	SETS	CONDUCTORS	BOND	CONDUIT W/ NEUTRAL (4W)	CONDUIT W/O NEUTRAL (3W)	NOTES
C01	20	1	#12	#12	21 mm	21 mm	
C02	30	1	#10	#12	21 mm	21 mm	
C03	40	1	#8	#10	21 mm	21 mm	
C04	50	1	#6	#10	27 mm	27 mm	
C05	60	1	#4	#10	35 mm	35 mm	
C06	70	1	#4	#8	35 mm	35 mm	
C07	80	1	#3	#8	35 mm	35 mm	
C08	90	1	#3	#8	35 mm	35 mm	
C09	100	1	#1	#6	53 mm	41 mm	
C09T	100	1	#1	#6	53 mm	41 mm	
C10	125	1	#1	#6	53 mm	41 mm	
C11	150	1	#1/0	#6	53 mm	41 mm	
C12	175	1	#2/0	#6	53 mm	53 mm	
C13	200	1	#3/0	#6	53 mm	53 mm	
C14	225	1	#4/0	#4	78 mm	53 mm	
C14T	225	1	#4/0	#2	78 mm	53 mm	
C15	250	1	250 kcmil	#4	78 mm	63 mm	
C16	300	1	350 kcmil	#3	78 mm	63 mm	
C17	350	1	500 kcmil	#3	103 mm	78 mm	
C18	400	2	#3/0	#6	53 mm	53 mm	
C18T	400	2	#3/0	#1/0	63 mm	63 mm	
C19	450	2	#4/0	#4	78 mm	53 mm	
C20	500	2	250 kcmil	#4	78 mm	78 mm	
C21	600	2	350 kcmil	#3	78 mm	78 mm	
C22A	800	3	350 kcmil	#3	78 mm	78 mm	
C22B	800	4	#3/0	#6	53 mm	53 mm	
C22T	800	2	600 kcmil	#1/0	78 mm	78 mm	
C23	900	3	350 kcmil	#3	78 mm	78 mm	
C24	1000	3	500 kcmil	#3	103 mm	78 mm	
C25	1200	4	350 kcmil	#3	78 mm	78 mm	
C26	1600	5	500 kcmil	#3	103 mm	78 mm	
C27	2000	6	500 kcmil	#3	103 mm	78 mm	
C28	2500	7	500 kcmil	#3	103 mm	78 mm	
C29	3000	8	500 kcmil	#3	103 mm	78 mm	
C30	4000	11	500 kcmil	#3	103 mm	78 mm	

FEEDER GENERAL NOTES:

1. CONDUCTORS ARE BASED ON TYPE RW90 COPPER CONDUCTORS ONLY. CONDUITS BASED ON RW90 CONDUCTORS ONLY. OTHER CONDUCTORS MAY REQUIRE LARGER CONDUITS.
2. BONDING CONDUCTORS AMPACITY HAS BEEN DIVIDED BY THE NUMBER OF CABLE RUNS PER 2021 CEC 10-616-4.
3. CONDUIT SIZE IS BASED ON TABLE 6A OF THE 2021 CEC AND CHECKED WITH TABLE 9G, ELECTRICAL METAL CONDUIT.
4. AMPACITY RATINGS ARE BASED ON 75 DEGREE CELSIUS UNLESS OTHERWISE NOTED. CONTRACTOR TO CONFIRM ALL CONNECTIONS ARE RATED TO 75 OR HIGHER. CONTRACTOR TO UPSIZE WIRING FOR NON RATED TERMINATIONS.
5. FOR BRANCH CIRCUITS OVER 75' (25 METERS) IN LENGTH (TOTAL ONE WAY) FROM THE PANEL, THE ELECTRICAL CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND PROVIDE AN APPROPRIATE CONDUCTOR SIZE TO ACHIEVE NO MORE THAN 3% MAXIMUM ALLOWABLE VOLTAGE DROP.

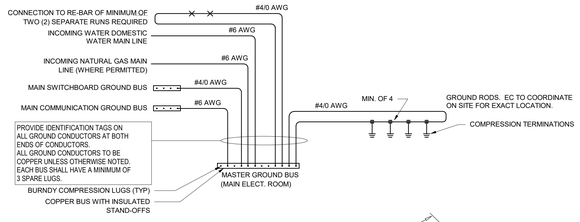
FIRE PUMP FEEDER SCHEDULE	
FIRE PUMP (HORSEPOWER | FULL LOAD AMPS | LOCKED ROTOR AMPS):	40HP | 41A | 246A
PRESSURE MAINTENANCE PUMP (HORSEPOWER | FULL LOAD AMPS | LOCKED ROTOR AMPS):	1HP | 2.1A | 12.6A
ACESSORY FIRE PUMP ELECTRICAL REQUIREMENTS: (TO BE CONFIRMED BY FP DESIGNER)	0A
VOLTAGE:	600V/3P
UTILITY OVERCURRENT PROTECTION SET OR RATED TO CARRY IDEFINETLEY THE LRA OF THE FIRE PUMP:	246A @ 125% (80% RATED BREAKER) = 307.5A ROUND UP TO 350A
GENERATOR OVERCURRENT PROTECTION:	350A
FEEDER AMPERAGE SIZE (FIRE PUMP FLA * 125%)	51.25A

NOTE: FIRE ALARM SCHEMATIC IS DIAGRAMATIC AND DOES NOT NECESSARILY SHOW ALL REQUIRED RISER RUNS, EQUIPMENT, LOOPS FOR THE BUILDING. CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE FIRE ALARM SYSTEM TO MEET CURRENT CODES AND THE BUILDINGS CODE REPORT REQUIREMENT.

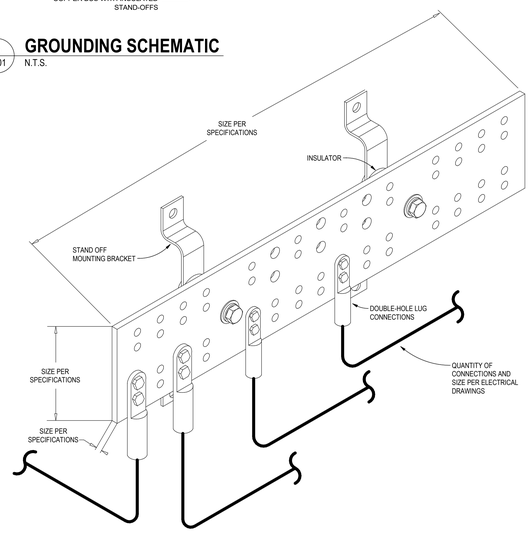
2 / E601 **TYPICAL FIRE ALARM SCHEMATIC**
N.T.S.

PRICING NOTE:

FIRE ALARM SYSTEM TO BE INSTALLED AS A 2-STAGE FIRE ALARM SYSTEM, BUT SHALL OPERATE AS A SINGLE STAGE FIRE ALARM SYSTEM UPON INITIAL COMPLETION OF BUILDING.



5 / E601 **GROUNDING SCHEMATIC**
N.T.S.



4 / E601 **GROUND BAR DETAIL**
1 : 24

GENERAL NOTES

1. SET BREAKERS PER COORDINATION STUDY.
2. ENERGY METERING SYSTEM TO CONNECT TO BUILDING AUTOMATION SYSTEM.
3. TRANSFER SWITCHES ARE TO BE BREAKER TYPE, WITH PROVISION FOR MANUAL OPEN AND CLOSE.

KEY NOTES

R:05 PROVIDE UTILITY METERING PER ATCO STANDARDS.
R:07 PROVIDE POWER QUALITY METER.
R:09 DEDICATED SPACE FOR MOUNTING OF CIRCUIT BREAKER FOR PHOTOVOLTAIC SYSTEM. PHOTOVOLTAIC SYSTEM PROVIDED BY OTHERS.
R:10 200% NEUTRAL BAR

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.14
Issued & Revision		By	Appd	YYYY.MM.DD

ED. JC	BS. JC	CC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
ELECTRICAL SINGLE LINE DIAGRAM AND SCHEMATICS

Project No. 144214760
Scale As indicated
Revision 6
Drawing No. **E601**

ORIGINAL SHEET - ISO A2

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT I.D.	UNIT DESCRIPTION	Panel	Circuit Number	VOLTS (V)	Φ	Hz	HP	INDIVIDUAL MOTOR FLA (A)	PACKAGE/ HEATER/OTHER WATTS	PACKAGE/ GROUPED MOTOR FEEDER MCA (A)	MOCP (A)	POWER SOURCE TYPE	BREAKER SIZE	CONDUCTOR SIZE	CONDUIT SIZE [mm]	NOTES
				120		0	0 hp	0.0	0 W	0.0	0		0 A			
AIR HANDLING UNIT SCHEDULE																
F-MAU-1	MAKE-UP AIR UNIT - DUCTED FUME HOODS	2P2E	79,81	208	1	60	1 hp	5.5	1144 W	7.0	15	STANDBY	15 A	2#12, 1#12G.	21	
CHILLER SCHEDULE																
CH-1	AIR COOLED CHILLER	6D1M	1	600	3	60	0 hp	0.0	0 W	42.0	50	STANDBY	50 A	3#6,1#10G.	27	(21810KW) -- CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
CH-2	AIR COOLED CHILLER	6D1M	3	600	3	60	0 hp	0.0	0 W	42.0	50	STANDBY	50 A	3#6,1#10G.	27	(21810KW) -- CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
ELECTRIC BOILER SCHEDULE																
B-1	ELECTRIC BACKUP BOILER	6D2E	4	600	3	60	0 hp	0.0	100000 W	0.0	0	STANDBY	125 A	4#1, 1#6G.	53	REFER TO SINGLE LINE DIAGRAM.
B-2	ELECTRIC BACKUP BOILER	6D2E	5	600	3	60	0 hp	0.0	100000 W	0.0	0	STANDBY	125 A	4#1, 1#6G.	53	REFER TO SINGLE LINE DIAGRAM.
ELECTRIC DOMESTIC WATER HEATER SCHEDULE																
DHWH-1	ELECTRIC DHW HEATER (LABS)	2P2E	45,47,49	208	3	60	0 hp	0.0	6000 W	0.0	0	STANDBY	25 A	3#10, 1#10G.	21	
DHWH-2	ELECTRIC DHW HEATER (LABS)	2P2E	51,53,55	208	3	60	0 hp	0.0	6000 W	0.0	0	STANDBY	25 A	3#10, 1#10G.	21	
DHWH-3	ELECTRIC DHW HEATER (WC/JAN)	2P1M	4,6,8	208	3	60	0 hp	0.0	3000 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
DHWH-4	ELECTRIC DHW HEATER (WC/JAN)	2P1M	10,12,14	208	3	60	0 hp	0.0	1500 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
DHWH-5	ELECTRIC DHW HEATER (WC)	2P1M	16,18,20	208	3	60	0 hp	0.0	1500 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
DHWH-6	ELECTRIC DHW HEATER (WC)	2P1M	22,24,26	208	3	60	0 hp	0.0	1500 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
DHWH-7	ELECTRIC DHW HEATER (CAFE)	2P1M	28,30,32	208	3	60	0 hp	0.0	1500 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
ELECTRONIC TRAP SEAL PRIMER SCHEDULE																
TSP-1	TRAP SEAL PRIMER	2P1M	44	120	1	60	0 hp	0.0	6 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
TSP-2	TRAP SEAL PRIMER	2P1M	44	120	1	60	0 hp	0.0	6 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
TSP-3	TRAP SEAL PRIMER	2P1M	44	120	1	60	0 hp	0.0	6 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
TSP-4	TRAP SEAL PRIMER	2P1M	44	120	1	60	0 hp	0.0	6 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
TSP-5	TRAP SEAL PRIMER	2P1M	44	120	1	60	0 hp	0.0	6 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
ENERGY & HEAT RECOVERY UNIT SCHEDULE																
ERV-1	ENERGY RECOVERY VENTILATION UNIT	6D1M	2	600	3	60	0 hp	0.0	17667 W	17.0	30	STANDBY	30 A	3#10, 1#10G.	21	
ERV-2	ENERGY RECOVERY VENTILATION UNIT	6D1M	4	600	3	60	0 hp	0.0	17667 W	17.0	30	STANDBY	30 A	3#10, 1#10G.	21	
ERV-3	ENERGY RECOVERY VENTILATION UNIT	2P1M	46,48	208	1	60	0 hp	0.0	2198 W	6.5	15	STANDBY	15 A	2#12, 1#12G.	21	
FAN COIL SCHEDULE																
FC-1	FANCOIL	2P2E	127,129	208	1	60	1.5 hp	11.0	3162 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-2	FANCOIL	2P2E	131,133	208	1	60	1.5 hp	11.0	3162 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-3	FANCOIL	2P2E	135,137	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-4	FANCOIL	2P2E	139	120	1	60	0.33 hp	7.2	864 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-5	FANCOIL	2P2E	2	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-6	FANCOIL	2P2E	4	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-7	FANCOIL	2P2E	6	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-8	FANCOIL	2P2E	8	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-9	FANCOIL	2P2E	10	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-11	FANCOIL	2P2E	12	120	1	60	0.33 hp	7.2	864 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-12	FANCOIL	2P2E	14,16	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-13	FANCOIL	2P2E	18,20	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-14	FANCOIL	2P2E	22,24	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-15	FANCOIL	2P2E	26,28	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-16	FANCOIL	2P2E	30	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-17	FANCOIL	2P2E	32	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-18	FANCOIL	2P2E	34	120	1	60	0.33 hp	7.2	864 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-19	FANCOIL	2P2E	36	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-20	FANCOIL	2P2E	38	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-22	FANCOIL	2P2E	40,42	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-23	FANCOIL	2P2E	44	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-24	FANCOIL	2P2E	46,48	208	1	60	1 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-25	FANCOIL	2P2E	50	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-26	FANCOIL	2P2E	52	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-27	FANCOIL	2P2E	54	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-28	FANCOIL	2P2E	56	120	1	60	0.5 hp	9.8	1176 W	0.0	0	STANDBY	20 A	2#12, 1#12G.	21	
FC-29	FANCOIL	2P2E	58	120	1	60	0.33 hp	7.2	864 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-32	FANCOIL	2P2E	60,62	208	1	60	0.5 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FC-33	FANCOIL	2P2E	64,66	208	1	60	0.5 hp	8.8	2247 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
FAN SCHEDULE																
F-C-1	COOLING FAN - MECH ROOM	2P2E	123	120	1	60	0.25 hp	5.8	696 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
F-C-2	COOLING FAN - MECH ROOM	2P2E	125	120	1	60	0.1 hp	0.0	500 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
F-E-1	EXHAUST FAN - SMUDGING	2P1M	34	120	1	60	0.1 hp	0.0	500 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	
F-E-2	EXHAUST FAN - SMUDGING	2P1M	34	120	1	60	0.1 hp	0.0	500 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	
F-FH-1	FUME HOOD EXHAUST FAN	2P2E	105,107,109	208	3	60	0.5 hp	2.5	901 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
F-FH-2	FUME HOOD EXHAUST FAN	2P2E	111,113,115	208	3	60	0.5 hp	2.5	901 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
F-FH-3	FUME HOOD EXHAUST FAN	2P2E	117,119,121	208	3	60	0.5 hp	2.5	901 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
F-FH-4	CHEMICAL STORAGE EXHAUST	2P2E	77	120	1	60	0.25 hp	5.8	696 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
F-FH-5	SNORKEL EXHAUST FAN	2P1M	50	120	1	60	0.33 hp	7.2	864 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	
F-R-1	FUTURE - RADON MITIGATION FAN	2P1M	52	120	1	60	0 hp	0.0	174 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	(2)
F-R-2	FUTURE - RADON MITIGATION FAN	2P1M	54	120	1	60	0 hp	0.0	174 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	(2)
F-R-3	FUTURE - RADON MITIGATION FAN	2P1M	56	120	1	60	0 hp	0.0	174 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	(2)
FLUE GAS ECONOMIZER SYSTEM																
CP-EM-HT-HEX	CONTROLS POWER	E2A	41	120	1	60	0 hp	0.0	500 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	(1)
CP-FGE	ECONOMIZER CONTROLLER	E2A	41	120	1	60	0 hp	0.0	500 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	(1)
F-FGE	FLUE GAS FAN	E6MS	37,39,41	600	3	60	20 hp	22.0	22863 W	0.0	0	NORMAL	50 A	#8	27	(1)
HYDRONIC UNIT & CABINET UNIT HEATER SCHEDULE																
CUH-1	CABINET UNIT HEATER	2P2E	76	120	1	60	0.1 hp	0.0	228 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
CUH-2	CABINET UNIT HEATER	2P2E	78	120	1	60	0.1 hp	0.0	228 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
CUH-3	CABINET UNIT HEATER	2P2E	78	120	1	60	0.1 hp	0.0	228 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
CUH-4	CABINET UNIT HEATER	2P2E	80	120	1	60	0.1 hp	0.0	228 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
CUH-5	CABINET UNIT HEATER	2P2E	76	120	1	60	0.1 hp	0.0	228 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-1	UNIT HEATER	2P2E	82	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-2	UNIT HEATER	2P2E	82	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-3	UNIT HEATER	2P2E	82	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-4	UNIT HEATER	2P2E	84	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-5	UNIT HEATER	2P2E	84	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-6	UNIT HEATER	2P2E	84	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-7	UNIT HEATER	2P2E	84	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
UH-8	UNIT HEATER	2P2E	84	120	1	60	0.05 hp	0.0	132 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
LAB DUCTLED FUMEHOOD SCHEDULE																
FH-1	DUCTED FUMEHOOD	2P1M	31	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
FH-2	DUCTED FUMEHOOD	2P1M	33	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
FH-3	DUCTED FUMEHOOD	2P1M	35	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
LAB DUCTLESS FUMEHOOD SCHEDULE																
DFH-1	DUCTLESS FUMEHOOD	2P1M	1	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-2	DUCTLESS FUMEHOOD	2P1M	3	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-3	DUCTLESS FUMEHOOD	2P1M	5	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-4	DUCTLESS FUMEHOOD	2P1M	7	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-5	DUCTLESS FUMEHOOD	2P1M	9	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-6	DUCTLESS FUMEHOOD	2P1M	11	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-7	DUCTLESS FUMEHOOD	2P1M	13	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-8	DUCTLESS FUMEHOOD	2P1M	15	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-9	DUCTLESS FUMEHOOD	2P1M	17	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-10	DUCTLESS FUMEHOOD	2P1M	19	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-11	DUCTLESS FUMEHOOD	2P1M	21	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-12	DUCTLESS FUMEHOOD	2P1M	23	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-15	DUCTLESS FUMEHOOD	2P1M	25	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-16	DUCTLESS FUMEHOOD	2P1M	27	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
DFH-17	DUCTLESS FUMEHOOD	2P1M	29	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
PUMP SCHEDULE																
P-C-1	CHILLED WATER SECONDARY PUMP	2P2E	31,33,35	208	3	60	3 hp	11.0	3963 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	
P-C-2	CHILLED WATER SECONDARY PUMP	2P2E	37,39,41	208	3	60	3 hp	11.0	0 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	STANDBY
P-C-C1	CHILLER CH-1 PUMP	2P2E	23,25	208	1	60	0 hp	0.0	0 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	(614 W) -- CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
P-C-C2	CHILLER CH-2 PUMP	2P2E	27,29	208	1	60	0 hp	0.0	0 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	(614 W) -- CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
P-C-GLY	GLYCOL FILL CHILLED WATER PUMP	2P2E	43	120	1	60	0 hp	0.7	84 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-C-R1	HEAT PUMP SOURCE SIDE (CHILLED WATER) PUMP	2P2E	68,70	208	1	60	0 hp	0.0	649 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-F-1	FIRE PUMP	FP CONTROLLER	1	600	3	60	40 hp	41.0	42608 W	0.0	0	LIFE SAFETY	350 A	3#4, #8G.	35	REFER TO SINGLE LINE DIAGRAM.
P-F-2	JOCKEY FIRE PUMP	6D1M	5	600	3	60	1 hp	1.7	1767 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
P-H-1	HEATING WATER SECONDARY PUMP	2P2E	65,67,69	208	3	60	3 hp	11.0	3963 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	
P-H-2	HEATING WATER SECONDARY PUMP	2P2E	71,73,75	208	3	60	0 hp	11.0	0 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	STANDBY
P-H-B1	ELECTRIC BOILER B-1 PUMP	2P2E	57,59	208	1	60	0 hp	0.0	260 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-H-B2	ELECTRIC BOILER B-2 PUMP	2P2E	61,63	208	1	60	0 hp	0.0	260 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-H-E1	ECONOMIZER PUMP	2P2E	83,85,87	208	3	60	3 hp	11.0	3963 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	STANDBY
P-H-E2	ECONOMIZER PUMP	2P2E	89,91,93	208	3	60	0 hp	11.0	0 W	0.0	0	STANDBY	20 A	3#12, 1#12G.	21	
P-H-G1	GLYCOL HEATING WATER PUMP	2P2E	95,97	208	1	60	0 hp	0.0	755 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-H-G2	GLYCOL HEATING WATER PUMP	2P2E	99,101	208	1	60	0 hp	0.0	0 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	STANDBY
P-H-GLY	GLYCOL FILL TANK/PUMP	2P2E	103	120	1	60	0 hp	0.7	84 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-H-R1	HEAT PUMP LOAD SIDE (HEATING WATER) PUMP	2P2E	72,74	208	1	60	0 hp	0.0	260 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	
P-W-1	WATER SERVICE RECIRC PUMP	2P2E	1	120	1	60	0 hp	0.0	110 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	
P-W-2	WATER SERVICE RECIRC PUMP	2P2E	3	120	1	60	0 hp	0.0	0 W	0.0	0	STANDBY	15 A	2#12, 1#12G.	21	STANDBY
P-W-3	DOMESTIC WATER PRESSURE BOOSTER PUMP	2P2E	5,7,9	208	3	60	2 hp	7.8	2810 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
P-W-4	DOMESTIC WATER PRESSURE BOOSTER PUMP	2P2E	11,13,15	208	3	60	2 hp	7.8	2810 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
P-W-5	DOMESTIC WATER PRESSURE BOOSTER PUMP	2P2E	17,19,21	208	3	60	2 hp	7.8	2810 W	0.0	0	STANDBY	15 A	3#12, 1#12G.	21	
P-W-6	DHW RECIRC PUMP	2P1M	2	120	1	60	0 hp	0.0	45 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	
P-W-7	DHW RECIRC PUMP	2P1M	2	120	1	60	0 hp	0.0	0 W	0.0	0	NORMAL	15 A	2#12, 1#12G.	21	STANDBY
REVERSE OSMOSIS SYSTEM SCHEDULE																
RO-1	REVERSE OSMOSIS SYSTEM	2P1M	38,40,42	208	3	60	1.5 hp	6.9	2486 W	0.0	0	NORMAL	15 A	3#12, 1#12G.	21	
VACUUM PUMP STORAGE SCHEDULE																
VP-1	VACUUM PUMP	2P1M	37	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-2	VACUUM PUMP	2P1M	39	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-3	VACUUM PUMP	2P1M	41	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-4	VACUUM PUMP	2P1M	43	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-5	VACUUM PUMP	2P1M	45	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-6	VACUUM PUMP	2P1M	47	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-7	VACUUM PUMP	2P1M	49	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-8	VACUUM PUMP	2P1M	51	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-9	VACUUM PUMP	2P1M	53	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
		2P1M	55	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
VP-11	VACUUM PUMP	2P1M	57	120	1	60	0 hp	0.0	1200 W	0.0	0	NORMAL	20 A	2#12, 1#12G.	21	
WATER TO WATER HEAT PUMP																
									28267 W	30.6	40	STANDBY	40 A	3#8, 1#10G.	21	

MECHANICAL EQUIPMENT SCHEDULE NOTES:

(1) -1MECHANICAL EQUIPMENT CONNECTED IN YUKON UNIVERSITY ENERGY CENTRE ROOM. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE 30-DAY METERING ON EXISTING ELECTRICAL SYSTEM AND PROVIDE INFORMATION TO ENGINEER OF RECORD FOR LOAD CALCULATION VERIFICATION. FIELD VERIFY SPACES IN ELECTRICAL PANELS FOR EQUIPMENT CONNECTION. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

(2) -RPROVIDE EMPTY CONDUIT RUN TO FUTURE EQUIPMENT LOCATION. CAP CONDUIT IN CEILING AT FUTURE EQUIPMENT LOCATION.

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Yukon University

Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16

Issued & Revision

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
ED, JC	BS, JC	CC	2024.05.06

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
MECHANICAL EQUIPMENT SCHEDULE

Project No. 144214760

Scale

Revision 6

Drawing No. **E701**

9/27/2024 1:48:42 PM
ORIGINAL SHEET - ISO A0

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG/SERIES #	ALTERNATE MANUFACTURERS	LAMP CCT	LAMP CRI (MIN)	INPUT WATTS	INPUT VOLTAGE	DRIVER TYPE	COMMENTS/NOTES
CL1-4	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12071-L40W 4'	OR APPROVED EQUAL	3500 K	90	40 W	120 V	DALI	
CL1-7-8	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12072-L80W 7' RADIUS 8' LENGTH	OR APPROVED EQUAL	3500 K	90	80 W	120 V	DALI	
CL1-8	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12071-L93W 8'	OR APPROVED EQUAL	3500 K	90	80 W	120 V	DALI	
CL1-20-4	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12072-L40W 20' RADIUS 4' LENGTH	OR APPROVED EQUAL	3500 K	90	40 W	120 V	DALI	
CL1-20-8	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12072-L80W 20' RADIUS 8' LENGTH	OR APPROVED EQUAL	3500 K	90	80 W	120 V	DALI	
CL1-70-4	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12072-L40W 70' RADIUS 4' LENGTH	OR APPROVED EQUAL	3500 K	90	40 W	120 V	DALI	
CL1-70-8	NOVATO LINES AND ARCS / PENDANT CURVED LINEAR	SPI Lighting	AIP12072-L40W 70' RADIUS 8' LENGTH	OR APPROVED EQUAL	3500 K	90	80 W	120 V	DALI	
CL2	SUSPENDED CIRCULAR DIRECT PENDANT	DELRAY LIGHTING	UC10-X-W35-S-DA	OR APPROVED EQUAL	3500 K	90	104 W	120 V	DALI	CONFIRM THE FIXTURE FINISH AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING THE FIXTURE. REFER TO PLANS FOR EXACT FIXTURE LENGTH.
CL3	SUSPENDED LINEAR DIRECT	DELRAY LIGHTING	ULP-1-X-W35-DA-SLRD	OR APPROVED EQUAL	3500 K	90	5 W	120 V	DALI	5WIFT. CONFIRM THE FIXTURE FINISH AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING THE FIXTURE. REFER TO PLANS FOR EXACT FIXTURE LENGTH
DL1	EXTERIOR WALL MOUNTED DOWNLIGHT	LIGMAN LIGHTING	UTA-31861-37w-2777lm - Down	OR APPROVED EQUAL	3500 K	80	37 W	120 V	<varies>	<varies>
DL2	EXTERIOR CANOPY DOWNLIGHT	LIGMAN LIGHTING	UUE-80051-39w-4094lm [a6.3":11.6"]	OR APPROVED EQUAL	3500 K	80	39 W	120 V	DALI	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES
DM2	2 CELL DOWNLIGHTS	USAI	MICRO MULTI-CELL	OR APPROVED EQUAL	3500 K	90	20 W	120 V	DALI	
DM4	4 CELL DOWNLIGHTS	USAI	MICRO MULTI-CELL	OR APPROVED EQUAL	3500 K	90	40 W	120 V	DALI	
EF	DMX RGBW DOWNLIGHT	ANOLIS LIGHTING	CAL XS_MC RGBA 15 E-B REM 9011	OR APPROVED EQUAL	3500 K	80	10 W	120 V	DMX	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES. PROVIDE CUSTOM ARM MOUNT, MOUNT FIXTURE APPROXIMATELY 285mm OFFSET FROM WALL AND 150mm ABOVE EXTERIOR FINS.
EL8	LINEAR LED WALL MTD PERIMETER LUMINAIRE - 8'	KELVIX LIGHTING	ZL-3'-8W-30-30-S2-BK-ALV	OR APPROVED EQUAL	3500 K	80	64 W	120 V	0-10V	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES
LP4	PENDANT LINEAR DIRECT/INDIRECT	AXIS LIGHTING	BEAM 2 DI	OR APPROVED EQUAL	3500 K	90	60 W	120 V	DALI	
LW1	DIRECT/INDIRECT WALL MOUNT LINEAR	AXIS LIGHTING	BEAM 2 WALL DI	OR APPROVED EQUAL	3500 K	90	70 W	120 V	DALI	
LW2	INDIRECT WALL MOUNT LINEAR	AXIS LIGHTING	BEAM 2 WALL DI	OR APPROVED EQUAL	3500 K	90	110 W	120 V	DALI	
LW3	RECESSED DIRECT LINEAR - 3'	AXIS LIGHTING	BEAM 2 WALL DI	OR APPROVED EQUAL	3500 K	90	35 W	120 V	DALI	
LW4	RECESSED DIRECT LINEAR - 4'	AXIS LIGHTING	BEAM 2 WALL DI	OR APPROVED EQUAL	3500 K	90	45 W	120 V	DALI	
LW5	RECESSED DIRECT LINEAR - 5'	AXIS LIGHTING	BEAM 2 WALL DI	OR APPROVED EQUAL	3500 K	90	55 W	120 V	DALI	
PC1	RING PENDANT - 4800MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	135 W	120 V	DALI	
PC2	RING PENDANT - 3100MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	106 W	120 V	DALI	
PC3	RING PENDANT - 2000MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	56 W	120 V	DALI	
PC4	RING PENDANT - 3700MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	135 W	120 V	DALI	
PC6	RING PENDANT - 1600MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	45 W	120 V	DALI	
PC7	RING PENDANT - 2400MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	68 W	120 V	DALI	
PC8	RING PENDANT - 1800MM DIA	SPI LIGHTING	ZYNN 2 RING PENDANT	OR APPROVED EQUAL	3500 K	90	51 W	120 V	DALI	
PD1	ROUND DOWNLIGHT PENDANT	USAI	CSRD10-16C3-35KH-90-SF-BL-PR1B-UNV-DALI-DW	OR APPROVED EQUAL	3500 K	90	16 W	120 V	DALI	
RD1	4" RECESSED SQUARE DOWNLIGHT	PORTFOLIO LIGHTING	LDSQ4C-15-90-35-DSLT CSSQ-0-LI	OR APPROVED EQUAL	3500 K	90	16 W	120 V	DALI	
RD2	4" RECESSED ROUND DOWNLIGHT	PORTFOLIO LIGHTING	LD4C-15-90-35-DSLT CSSQ-0-LI	OR APPROVED EQUAL	3500 K	90	16 W	120 V	DALI	
SS4	4' LED STRIP LIGHT	METALUX LIGHTING	4SNLED-LD5-44SL-LW-UNV-L835-CD-1	OR APPROVED EQUAL	3500 K	80	38 W	120 V	0-10V	
T4	RECESSED 2X4	LITELINE	FORUM PANEL	OR APPROVED EQUAL	3500 K	90	45 W	120 V	DALI	
T4W	RECESSED 2X4 WET RATED	FAIL-SAFE	FSP-24-47-35-CA125-DALI-IP66	OR APPROVED EQUAL	3500 K	90	41 W	120 V	DALI	IP66 WET LOCATION LISTED
U1	IN GROUND UPLIGHT	LIGMAN LIGHTING	UKI-60678	OR APPROVED EQUAL	3500 K	90	29 W	120 V	DMX	
XB1	BOLLARD	LIGMAN LIGHTING	UVA-10001	OR APPROVED EQUAL	3000 K	90	15 W	120 V	0-10V	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES
XC1	10' LIGHT COLUMN	LIGMAN LIGHTING	UVA-20001	OR APPROVED EQUAL	3000 K	90	70 W	120 V	0-10V	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES
XP1	20' POLE MOUNTED LUMINAIRE	STREETWORKS	GLEON-SA2-C-830-U-T4W-BK-DIM	OR APPROVED EQUAL	3000 K	80	113 W	120 V	0-10V	EXTERIOR - TO BE SUITABLE FOR -50°C TO +50°C AMBIENT TEMPERATURES

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Notes

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5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
Issued & Revision		By	Appd.	YYYY.MM.DD

	ED, JC	BS, JC	CC	2024.05.06
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
LIGHT FIXTURE SCHEDULE

Project No. 144214760

Scale

Revision 6

Drawing No. **E702**

1 2 3 4 5 6 7

E D C B A

Stantec — Switchboard

Name: **6D1N** | Volts: 600V | Mains Type: MCB | Type:
Location: Space 97 | Phases: 3 | Mains Rating: 1200 A | AIC Rating: 42kAIC
Supply From: | Wires: 3 | MCB Rating: 1000 A | Mounting: Floor
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	P-F-1 VIA: FP CONTROLLER	42608	350 A	3		TAP AHEAD OF MAIN CIRCUIT BREAKER. REFER TO E601.
2	SPARE	0	100 A	3	--	
3	2D1N VIA: TX1	216310	300 A	3		
4	6D2E VIA: ATS2 (UTILITY)	374897	400 A	3		
5	2P1E VIA: ATS1 (UTILITY)	21003	100 A	3		
6	SPD	0	30 A	3	--	
7	SPACE	--	--	3	--	
8	SPACE	--	--	3	--	
9	SPACE	--	--	3	--	
10	SPACE	--	--	3	--	
11	SPACE	--	--	3	--	
12	DEDICATED SPACE - PHOTOVOLTAIC SYSTEM	--	--	3	--	(1)

Total Conn. Load: 654.82 kVA
Total Amps: 630 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA		
Equipment	63190 VA	100.00%	63190 VA	**Total Conn. Load:**	**654819 VA**
HVAC	81801 VA	100.00%	81801 VA	**Total Est. Demand:**	**612182 VA**
Heating	208196 VA	100.00%	208196 VA	**Total Conn.:**	**630 A**
Kitchen Equipment - Non-Dwelling Unit	19760 VA	65.00%	12844 VA	**Total Est. Demand:**	**589 A**
Lighting	27090 VA	125.00%	33862 VA		
Lighting - Exterior	1319 VA	125.00%	1649 VA		
Motor	111513 VA	109.55%	122165 VA		
Power	0 VA	0.00%	0 VA		
Receptacle	116950 VA	54.28%	63475 VA		
Electric Vehicle Charger	20000 VA	100.00%	20000 VA		

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit
Notes:
(1) DEDICATED SPACE FOR MOUNTING OF CIRCUIT BREAKER FOR PHOTOVOLTAIC SYSTEM. PHOTOVOLTAIC SYSTEM PROVIDED BY OTHERS.

Stantec — Switchboard

Name: **6D1E** | Volts: 600V | Mains Type: MCB | Type:
Location: Space 96 | Phases: 3 | Mains Rating: 500 A | AIC Rating: 42kAIC
Supply From: | Wires: 3 | MCB Rating: 500 A | Mounting: Floor
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	P-F-1 VIA: FP CONTROLLER	42608	350 A	3		TAP AHEAD OF MAIN CIRCUIT BREAKER. REFER TO E601.
2	2P1E VIA: ATS1 (GENERATOR)	21003	100 A	3		
3	6D2E VIA: ATS2 (GENERATOR)	374897	400 A	3		
4	SPD	0	30 A	3	--	
5	SPACE	--	--	3	--	
6	SPACE	--	--	3	--	
7	SPACE	--	--	3	--	
8	SPACE	--	--	3	--	
9	SPACE	--	--	3	--	
10	SPACE	--	--	3	--	
11	SPACE	--	--	3	--	
12	SPACE	--	--	3	--	

Total Conn. Load: 438.51 kVA
Total Amps: 422 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	21500 VA	100.00%	21500 VA		
HVAC	81801 VA	100.00%	81801 VA	**Total Conn. Load:**	**438509 VA**
Heating	208196 VA	100.00%	208196 VA	**Total Est. Demand:**	**452302 VA**
Lighting	13263 VA	125.00%	16579 VA	**Total Conn.:**	**422 A**
Motor	103399 VA	110.30%	114051 VA	**Total Est. Demand:**	**435 A**
Receptacle	10350 VA	98.31%	10175 VA		

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit
Notes:

Stantec — Panel

Name: **2D1N** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: Space 97 | Phases: 3 | Mains Rating: 800 A | AIC Rating: 12kAIC
Supply From: TX1 | Wires: 4 | MCB Rating: 800 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	2P1N	56260	225 A	3		
2	2P2N	29780	100 A	3		
3	2P3N	47320	225 A	3		
4	2P1M	47944	225 A	3		
5	2P1L	15005	100 A	3		
6	EV CHARGING STATIONS 1, 2, 3 & 4	20000	100 A	3		
7	SPD	0	30 A	3	--	
8	SPACE	--	--	3	--	
9	SPACE	--	--	3	--	
10	SPACE	--	--	3	--	
11	SPACE	--	--	3	--	
12	SPACE	--	--	3	--	

Total Conn. Load: 216.31 kVA
Total Amps: 600 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA		
Equipment	41690 VA	100.00%	41690 VA	**Total Conn. Load:**	**216310 VA**
Kitchen Equipment - Non-Dwelling Unit	19760 VA	65.00%	12844 VA	**Total Est. Demand:**	**165502 VA**
Lighting	13826 VA	125.00%	17283 VA	**Total Conn.:**	**600 A**
Lighting - Exterior	1319 VA	125.00%	1649 VA	**Total Est. Demand:**	**459 A**
Motor	8114 VA	107.66%	8736 VA		
Power	0 VA	0.00%	0 VA		
Receptacle	106600 VA	54.69%	58300 VA		
Electric Vehicle Charger	20000 VA	100.00%	20000 VA		

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit
Notes:
(1) COORDINATE CIRCUIT BREAKER REQUIREMENTS WITH EV CHARGING EQUIPMENT PRIOR TO ROUGH IN.

Stantec — Panel

Name: **6D2E** | Volts: 600V | Mains Type: MCB | Type:
Location: Space 97 | Phases: 3 | Mains Rating: 400 A | AIC Rating: 42kAIC
Supply From: ATS2 | Wires: 3 | MCB Rating: 400 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	2E1T VIA: TX2	5360	100 A	3		
2	2P2E VIA: TX3	104169	100 A	3		
3	6D2M	65368	400 A	3		
4	B-1	100000	125 A	3		
5	B-2	100000	125 A	3		
6	SPD	0	30 A	3	--	
7						
8						
9						
10						
11						
12						

Total Conn. Load: 374.90 kVA
Total Amps: 361 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	16100 VA	100.00%	16100 VA		
HVAC	81801 VA	100.00%	81801 VA	**Total Conn. Load:**	**374897 VA**
Heating	208196 VA	100.00%	208196 VA	**Total Est. Demand:**	**381964 VA**
Motor	60790 VA	111.62%	67857 VA	**Total Conn.:**	**361 A**
Receptacle	8010 VA	100.00%	8010 VA	**Total Est. Demand:**	**368 A**

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit
Notes:

Stantec — Panel

Name: **6D1M** | Volts: 600V | Mains Type: MCB | Type:
Location: Space 97 | Phases: 3 | Mains Rating: 400 A | AIC Rating:
Supply From: 6D2E | Wires: 3 | MCB Rating: 400 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	CH-1	0	50 A	3		
2	ERV-1	17667	30 A	3		
3	CH-2	0	50 A	3		
4	ERV-2	17667	30 A	3		
5	P-F-2	1767	15 A	3		
6	HP-R-1	28267	40 A	3		
7	SPARE	0	50 A	3	--	
8	SPARE	0	50 A	3	--	
9	SPARE	0	30 A	3	--	
10	SPARE	0	30 A	3	--	
11	SPARE	0	30 A	3	--	
12	SPARE	0	30 A	3	--	

Total Conn. Load: 65.37 kVA
Total Amps: 63 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	35334 VA	100.00%	35334 VA		
Motor	30034 VA	123.53%	37101 VA	**Total Conn. Load:**	**65368 VA**
				Total Est. Demand:	**72434 VA**
				Total Conn.:	**63 A**
				Total Est. Demand:	**70 A**

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit
Notes:

Stantec — Panel

Name: **2E1T** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: NETWORK & SECURITY RM P1057 | Phases: 3 | Mains Rating: 100 A | AIC Rating:
Supply From: TX2 | Wires: 4 | MCB Rating: 100 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:
200% NEUTRAL BAR

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	RECEPT - NETWORK & SECURITY RM	15 A	1		540	0					--	1	15 A	SPARE	2
3	RECEPT - NETWORK & SECURITY RM	15 A	1				540	0			--	1	15 A	SPARE	4
5	UPS-1	100 A	2						1980	0	--	1	15 A	SPARE	6
7	--	--	--	--	2300	0					--	1	15 A	SPARE	8
9	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	10
11	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	12
13	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	14
15	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	16
17	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	18
19	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	20
21	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	22
23	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	24
25	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	26
27	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	28
29	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	30
31	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	32
33	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	34
35	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	36
37	SPARE	15 A	1	--	0	0					--	3	30 A	SPD	38
39	SPARE	15 A	1	--			0	0			--	--	--	--	40
41	SPARE	15 A	1	--					0	0	--	--	--	--	42
				Total Load:	**2.84 kVA**		**0.54 kVA**		**1.98 kVA**						
				Total Amps:	**26 A**		**5 A**		**18 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	4100 VA	100.00%	4100 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	**5360 VA**
				Total Est. Demand:	**5360 VA**
				Total Conn.:	**15 A**
				Total Est. Demand:	**15 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Stantec — Panel

Name: **2P1L** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: ELECTRICAL ROOM P1030 | Phases: 3 | Mains Rating: 100 A | AIC Rating:
Supply From: 2D1N | Wires: 4 | MCB Rating: 100 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	LTG - SB1022	15 A	1		855	250						1	15 A	LTG - NORTHEAST EXTERIOR	2
3	LTG - SB1025	15 A	1				630	250				1	15 A	LTG - NORTHEAST EXTERIOR	4
5	LTG - SB1041/54	15 A	1						945	250		1	15 A	LTG - SOUTHEAST EXTERIOR	6
7	LTG - SB1026	15 A	1		779	250						1	15 A	LTG - SOUTHEAST EXTERIOR	8
9	LTG - SB1032/39	15 A	1				299	210				1	15 A	LTG - SOUTHWEST EXTERIOR	10
11	LTG - SB1034	15 A	1						779	110		1	15 A	LTG - SOUTHWEST EXTERIOR	12
13	LTG - SB1043/52	15 A	1		327	170						1	15 A	LTG - SOUTHWEST EXTERIOR	14
15	LTG - SB1035/36/37/38/40/44/45/49	15 A	1				720	1130				1	15 A	LTG - SITE XP1	16
17	LTG - SB1013/14/15	15 A	1						246	770		1	15 A	LTG - SITE XC1	18
19	LTG - SB1012	15 A	1		415	375						1	15 A	LTG - SITE XB1	20
21	LTG - SB1002	15 A	1				420	0			--	1	15 A	SPARE	22
23	LTG - SB1002	15 A	1						590	0	--	1	15 A	SPARE	24
25	LTG - SB1033	15 A	1		616	0					--	1	15 A	SPARE	26
27	LTG - SB1011	15 A	1				876	0			--	1	15 A	SPARE	28
29	LTG - SB1009/16/18	15 A	1						836	0	--	1	15 A	SPARE	30
31	LTG - SB1017/19	15 A	1		707	0					--	1	15 A	SPARE	32
33	LTG - SB1053/55/56	15 A	1				248	0			--	1	15 A	SPARE	34
35	LTG - SB1020/42/50	15 A	1						593	0	--	1	15 A	SPARE	36
37	SITE - RECEPTACLE	15 A	1		360	0					--	1	15 A	SPARE	38
39	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	40
41	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	42
				Total Load:	**5.10 kVA**		**4.78 kVA**		**5.12 kVA**						
				Total Amps:	**43 A**		**40 A**		**43 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	13326 VA	125.00%	16658 VA		
Lighting - Exterior	1319 VA	125.00%	1649 VA	**Total Conn. Load:**	**15005 VA**
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	**18667 VA**
				Total Conn.:	**42 A**
				Total Est. Demand:	**52 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Stantec — Panel

Name: **2P1E** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: EMERGENCY DIST ROOM P1030A | Phases: 3 | Mains Rating: 225 A | AIC Rating:
Supply From: TX4 | Wires: 4 | MCB Rating: 225 A | Mounting: Surface
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	LTG - SB1029/30/31	15 A	1		342	180						1	20 A	RECEPT - SB1030A	2
3	LTG - SB1028	15 A	1				456	750				1	15 A	EQUIP - DOOR HARDWARE SB1001	4
5	LTG - SB1027/28/58	15 A	1						792	1000		1	15 A	EQUIP - DOOR HARDWARE SB1004	6
7	LTG - SB1026/32/34	15 A	1		574	750						1	15 A	EQUIP - DOOR HARDWARE SB1021	8
9	LTG - SB1039/41	15 A	1				360	500				1	15 A	EQUIP - DOOR HARDWARE SB1051	10
11	LTG - SB1022/25/54	15 A	1						630	1000		1	15 A	EQUIP - DOOR HARDWARE SB1058	12
13	LTG - SB1051/52/53/55/56/57	15 A	1		220	0						1	20 A	GENERATOR BATTERY CHARGER	14
15	LTG - SB1021/23/24, SB1H004	15 A	1				530	0				2	20 A	GENERATOR BLOCK HEATER	16
17	LTG - SB1017/19	15 A	1						0	0	--	--	--	--	18
19	LTG - SB1009/16/18	15 A	1		392	100						1	15 A	EQUIP - LIGHTING CONTROL PANEL	20
21	LTG - SB1002	15 A	1				924	100				1	15 A	EQUIP - FA CONTROL PANEL	22
23	LTG - EAST EXIT SIGNS	15 A	1						0	100		1	15 A	EQUIP - FA PANEL	24
25	LTG - SOUTH EXTERIOR	15 A	1		539	100						1	15 A	EQUIP - FA PANEL	26
27	LTG - WEST EXTERIOR	15 A	1				500	660				1	20 A	EQUIP - SB1052 PLUMBING FIXTURES	28
29	LTG - WEST EXIT SIGNS	15 A	1						0	1180		1	15 A	RECEPT - WC SB1055 / SB1056	30
31	LTG - SB1H005	15 A	1		680	1320						1	20 A	EQUIP - PLUMBING FIXUTRES...	32
33	LTG - SB1H005	15 A	1				643	0			--	1	15 A	SPARE	34
35	LTG - SB1H008	15 A	1						720	0	--	1	15 A	SPARE	36
37	LTG - SB1H007	15 A	1		682	0					--	1	15 A	SPARE	38
39	LTG - SB1H007	15 A	1				480	0			--	1	15 A	SPARE	40
41	LTG - SB1H007	15 A	1						720	0	--	1	15 A	SPARE	42
43	LTG - SB1H006	15 A	1		800	0					--	1	15 A	SPARE	44
45	LTG - SB1003	15 A	1				550	0			--	1	15 A	SPARE	46
47	LTG - SB1H002	15 A	1						721	0	--	1	15 A	SPARE	48
49	LTG - SB1H002	15 A	1		368	0					--	1	15 A	SPARE	50
51	LTG - SB1003	15 A	1				640	0			--	1	15 A	SPARE	52
53	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	54
55	SPARE	15 A	1	--	0	0					--	3	30 A	SPD	56
57	SPARE	15 A	1	--			0	0			--	--	--	--	58
59	SPARE	15 A	1	--					0	0	--	--	--	--	60
				Total Load:	**7.05 kVA**		**7.09 kVA**		**6.86 kVA**						
				Total Amps:	**59 A**		**59 A**		**57 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	5400 VA	100.00%	5400 VA		
Lighting	13263 VA	125.00%	16579 VA	**Total Conn. Load:**	**21003 VA**
Receptacle	2340 VA	100.00%	2340 VA	**Total Est. Demand:**	**24319 VA**
				Total Conn.:	**58 A**
				Total Est. Demand:	**68 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

6D1N	**6D1E**	**2D1N**
6D2E	**6D1M**	**2E1T**
	2P1L	**2P1E**

9/27/2024 1:48:50 PM
ORIGINAL SHEET - ISO A0

Stantec

Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
www.stantec.com

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Client/Project Logo

Yukon University

Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.23

Issued & Revision

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
ED, JC	BS, JC	CC	2024.05.06

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
PANEL SCHEDULES

Project No. 144214760
Scale

Revision 6
Drawing No. **E710**

Panel 2P1N

Stantec — Panel

Name: **2P1N**	Volts: 208Y/120V	Mains Type: MCB	Type:		
Location: WET PREPARATION ROOM P1032	Phases: 3	Mains Rating: 225 A	AIC Rating:		
Supply From: 2D1N	Wires: 4	MCB Rating: 225 A	Mounting: Surface		
Serves:		Lugs: Single Lugs	Enclosure: Type 1		

Notes:

CKT	Circuit Description	Trip	Poles	CB	A	A	B	B	C	C	CB	Poles	Trip	Circuit Description	CKT
1	CORD REELS - SB1022	20 A	1		1200	720						1	20 A	RECEPT - SB1034	2
3	CORD REELS - SB1022	20 A	1				1200	720				1	20 A	RECEPT - SB1034	4
5	CORD REELS - SB1022	20 A	1						1200	720		1	20 A	RECEPT - SB1034	6
7	RECEPT - SB1022	20 A	1		720	720						1	20 A	RECEPT - SB1034	8
9	RECEPT - SB1022	20 A	1				720	720				1	20 A	RECEPT - SB1034	10
11	RECEPT - SB1022	20 A	1						720	720		1	20 A	RECEPT - SB1034	12
13	RECEPT - SB1022	20 A	1		720	720						1	20 A	RECEPT - SB1034	14
15	RECEPT - SB1022	20 A	1				720	720				1	20 A	RECEPT - SB1034	16
17	RECEPT - SB1022/25 AV	15 A	1						860	720		1	20 A	RECEPT - SB1034	18
19	RECEPT - SB1022	15 A	1		720	720						1	20 A	RECEPT - SB1034	20
21	RECEPT - SB1025	20 A	1				360	720				1	20 A	RECEPT - SB1034	22
23	RECEPT - SB1025	20 A	1						720	720		1	20 A	RECEPT - SB1034	24
25	RECEPT - SB1025	20 A	1		720	720						1	20 A	RECEPT - SB1034	26
27	RECEPT - SB1025	20 A	1				720	720				1	20 A	RECEPT - SB1038	28
29	RECEPT - SB1025 CEILING INTERFACE	20 A	1						180	720		1	20 A	RECEPT - SB1039	30
31	RECEPT - SB1025 CEILING INTERFACE	20 A	1		180	720						1	20 A	RECEPT - SB1039	32
33	RECEPT - SB1025 CEILING INTERFACE	20 A	1				180	720				1	20 A	RECEPT - SB1039	34
35	RECEPT - SB1025 CEILING INTERFACE	20 A	1						180	540		1	20 A	RECEPT - SB1039	36
37	RECEPT - SB1026	20 A	1		360	360						1	20 A	RECEPT - SB1039	38
39	RECEPT - SB1026	20 A	1				720	360				1	20 A	RECEPT - SB1039	40
41	RECEPT - SB1026	20 A	1						360	720		1	20 A	RECEPT - SB1054	42
43	RECEPT - SB1026	20 A	1		720	720						1	20 A	RECEPT - SB1054	44
45	RECEPT - SB1026	20 A	1				360	360				1	20 A	RECEPT - SB1054	46
47	RECEPT - SB1026	20 A	1						720	360		1	20 A	RECEPT - SB1054	48
49	RECEPT - SB1026	15 A	1		500	0					--	1	15 A	SPARE	50
51	RECEPT - SB1026	20 A	1				360	0			--	1	15 A	SPARE	52
53	RECEPT - SB1026	20 A	1						720	0	--	1	15 A	SPARE	54
55	RECEPT - SB1026	20 A	1		360	0					--	1	15 A	SPARE	56
57	RECEPT - SB1026	20 A	1				720	0			--	1	15 A	SPARE	58
59	RECEPT - SB1026	20 A	1						360	0	--	1	15 A	SPARE	60
61	RECEPT - SB1026	20 A	1		720	0					--	1	15 A	SPARE	62
63	RECEPT - SB1026	20 A	1				360	0			--	1	15 A	SPARE	64
65	EQUIP - SB1026 DRYING OVEN	20 A	1						360	0	--	1	15 A	SPARE	66
67	RECEPT - SB1026	15 A	1		540	0					--	1	15 A	SPARE	68
69	RECEPT - SB1032	20 A	1				720	0			--	1	15 A	SPARE	70
71	RECEPT - SB1032	20 A	1						720	0	--	1	15 A	SPARE	72
73	RECEPT - SB1032	20 A	1		720	0					--	1	15 A	SPARE	74
75	RECEPT - SB1032	20 A	1				720	0			--	1	15 A	SPARE	76
77	RECEPT - SB1032/34	20 A	1						720	0	--	1	15 A	SPARE	78
79	RECEPT - SB1032/34	20 A	1		720	0					--	1	15 A	SPARE	80
81	RECEPT - SB1041	20 A	1				720	0			--	1	15 A	SPARE	82
83	RECEPT - SB1041	20 A	1						720	0	--	1	15 A	SPARE	84
85	RECEPT - SB1041	20 A	1		720	0					--	1	15 A	SPARE	86
87	RECEPT - SB1041	20 A	1				720	0			--	1	15 A	SPARE	88
89	RECEPT - SB1041	20 A	1						720	0	--	1	15 A	SPARE	90
91	RECEPT - SB1041	20 A	1		720	0					--	1	15 A	SPARE	92
93	CORD REELS - SB1041	20 A	1				1200	0			--	1	15 A	SPARE	94
95	CORD REELS - SB1041	20 A	1						1200	0	--	1	15 A	SPARE	96
97	CORD REELS - SB1041	20 A	1		1200	0					--	1	15 A	SPARE	98
99	RECEPT - SB1041	20 A	1				900	0			--	1	15 A	SPARE	100
101	RECEPT EXTERIOR - SOUTHWEST	20 A	1						540	0	--	1	15 A	SPARE	102
103	RECEPT - SB1023	15 A	1		720	0					--	1	15 A	SPARE	104
105	RECEPT - SB1023	15 A	1				540	0			--	1	15 A	SPARE	106
107	RECEPT - SB1034/41 AV	15 A	1						720	0	--	1	15 A	SPARE	108
109	RECEPT - SB1034	20 A	1		1080	0					--	1	15 A	SPARE	110
111	RECEPT - SB1034	20 A	1				720	0			--	1	15 A	SPARE	112
113	RECEPT - SB1034	20 A	1						720	0	--	1	15 A	SPARE	114
115	RECEPT - SB1034	20 A	1		720	0					--	1	15 A	SPARE	116
117	RECEPT - SB1034	20 A	1				720	0			--	1	15 A	SPARE	118
119	RECEPT - SB1034	20 A	1						720	0	--	1	15 A	SPARE	120
				Total Load:	19.46 kVA		18.42 kVA		18.38 kVA						
				Total Amps:	162 A		154 A		153 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	360 VA	100.00%	360 VA		
Receptacle	55900 VA	58.94%	32950 VA	Total Conn. Load:	**56260 VA**
				Total Est. Demand:	**33310 VA**
				Total Conn.:	**156 A**
				Total Est. Demand:	**92 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Panel 2P2N

Stantec — Panel

Name: **2P2N**	Volts: 208Y/120V	Mains Type: MCB	Type:		
Location:	Phases: 3	Mains Rating: 100 A	AIC Rating:		
Supply From: 2D1N	Wires: 4	MCB Rating: 100 A	Mounting: Surface		
Serves:		Lugs: Single Lugs	Enclosure: Type 1		

Notes:

CKT	Circuit Description	Trip	Poles	CB	A	A	B	B	C	C	CB	Poles	Trip	Circuit Description	CKT
1	RECEPT - SB1027	20 A	1		540	720						1	15 A	CLOCK - WEST CENTRAL	2
3	ELECTRIC CLOTHES DRYER	15 A	2				2500	540				1	15 A	CLOCK - WEST	4
5	--	--	--	--					2500	1080		1	15 A	RECEPT - SB1045/49	6
7	RECEP - WASHING MACHINE	20 A	1		1000	1100						1	20 A	EQUIP - SB1046 MICROWAVE	8
9	RECEPT EXTERIOR - NORTHWEST	20 A	1				540	180				1	20 A	EQUIP - SB1047 PRINTER	10
11	RECEPT - SB1028	20 A	1						720	180		1	15 A	EQUIP - SB1047 VENDING MACHINE	12
13	RECEPT - SB10/23/24/29/30	20 A	1		1080	0						1	15 A	EQUIP - B-2	14
15	RECEPT - SB1024	15 A	1				720	1800				1	15 A	RECEPT - SB1050	16
17	EQUIP - BF-1	15 A	1						0	180		1	15 A	EQUIP - SB1052 CHANGING TABLE	18
19	RECEPT - CORRIDOR	20 A	1		540	1260						1	15 A	RECEPT - SB1053	20
21	RECEPT- SB1033	20 A	1				720	180				1	20 A	RECEPT - ROOF	22
23	RECEPT- SB1H008	20 A	1						900	180		1	15 A	RECEPT - ROOF	24
25	RECEPT - SB1H008	15 A	1		360	180						1	15 A	RECEPT - ROOF	26
27	RECEPT - SB1033	15 A	1				1080	900				1	20 A	MOTOR SHADES - W. OFFICES	28
29	RECEPT - CORRIDOR	20 A	1						900	720		1	20 A	MOTOR SHADES - E. OFFICES / SB1053	30
31	RECEPT - SB1033/35	15 A	1		1080	0					--	1	15 A	SPARE	32
33	RECEPT - SB1036/37	15 A	1				1080	0			--	1	15 A	SPARE	34
35	RECEPT - SB1037/38	15 A	1						1080	0	--	1	15 A	SPARE	36
37	RECEPT - SB1040/42	15 A	1		1080	0					--	1	15 A	SPARE	38
39	RECEPT - SB1042	15 A	1				1080	0			--	1	15 A	SPARE	40
41	RECEPT - SB1044/45	15 A	1						1080	0	--	1	15 A	SPARE	42
				Total Load:	8.94 kVA		11.32 kVA		9.52 kVA						
				Total Amps:	75 A		95 A		80 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA		
Equipment	0 VA	0.00%	0 VA	Total Conn. Load:	**29780 VA**
Receptacle	24780 VA	70.18%	17390 VA	Total Est. Demand:	**22390 VA**
				Total Conn.:	**83 A**
				Total Est. Demand:	**62 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Panel 2P2E

Stantec — Panel

Name: **2P2E**	Volts: 208Y/120V	Mains Type: MCB	Type:		
Location:	Phases: 3	Mains Rating: 400 A	AIC Rating: 10kAIC		
Supply From: TX3	Wires: 4	MCB Rating: 400 A	Mounting: Surface		
Serves:		Lugs: Feed Thru	Enclosure: Type 1		

Notes:

CKT	Circuit Description	Trip	Poles	CB	A	A	B	B	C	C	CB	Poles	Trip	Circuit Description	CKT
1	P-W-1	15 A	1		110	1176						1	20 A	FC-5	2
3	P-W-2	15 A	1				0	1176				1	20 A	FC-6	4
5	P-W-3	15 A	3						937	1176		1	20 A	FC-7	6
7	--	--	--	--	937	1176						1	20 A	FC-8	8
9	--	--	--	--			937	1176				1	20 A	FC-9	10
11	P-W-4	15 A	3						937	864		1	20 A	FC-11	12
13	--	--	--	--	937	1124						2	15 A	FC-12	14
15	--	--	--	--			937	1124			--	--	--	--	16
17	P-W-5	15 A	3						937	1124		2	15 A	FC-13	18
19	--	--	--	--	937	1124					--	--	--	--	20
21	--	--	--	--			937	1124				2	15 A	FC-14	22
23	P-C-C1	15 A	2						0	1124	--	--	--	--	24
25	--	--	--	--	0	1124						2	15 A	FC-15	26
27	P-C-C2	15 A	2				0	1124			--	--	--	--	28
29	--	--	--	--					0	1176		1	25 A	FC-16	30
31	P-C-1	20 A	3		1321	1176						1	20 A	FC-17	32
33	--	--	--	--			1321	864				1	20 A	FC-18	34
35	--	--	--	--					1321	1176		1	20 A	FC-19	36
37	P-C-2	20 A	3		746	1176						1	20 A	FC-20	38
39	--	--	--	--			746	1124				2	15 A	FC-22	40
41	--	--	--	--					746	1124	--	--	--	--	42
43	P-C-GLY	15 A	1		84	1176						1	25 A	FC-23	44
45	DHWH-1	25 A	3				2000	1124				2	15 A	FC-24	46
47	--	--	--	--					2000	1124	--	--	--	--	48
49	--	--	--	--	2000	1176						1	20 A	FC-25	50
51	DHWH-2	25 A	3				2000	1176				1	15 A	FC-26	52
53	--	--	--	--					2000	1176		1	15 A	FC-27	54
55	--	--	--	--	2000	1176						1	15 A	FC-28	56
57	P-H-B1	15 A	2				130	864				1	20 A	FC-29	58
59	--	--	--	--					130	1124		2	15 A	FC-32	60
61	P-H-B2	15 A	2		130	1124					--	--	--	--	62
63	--	--	--	--			130	1124				2	15 A	FC-33	64
65	P-H-1	20 A	3						1321	1124	--	--	--	--	66
67	--	--	--	--	1321	325						2	15 A	P-C-R1	68
69	--	--	--	--			1321	325			--	--	--	--	70
71	P-H-2	20 A	3						0	130		2	15 A	P-H-R1	72
73	--	--	--	--	0	130					--	--	--	--	74
75	--	--	--	--			0	456				1	15 A	CUH-1 / CUH-5	76
77	F-FH-4	15 A	1						696	456		1	15 A	CUH-2 / CUH-3	78
79	F-MAU-1	15 A	2		572	228						1	15 A	CUH-4	80
81	--	--	--	--			572	396				1	15 A	UH-1 / UH-2 / UH-3	82
83	P-H-E1	35 A	3						1321	660		1	15 A	UH-4 / UH-5 / UH-6 / UH-7 / UH-8	84
85	--	--	--	--	1321	500						1	20 A	EQUIP - SB1023 FRIDGE	86
87	--	--	--	--			1321	750				1	20 A	EQUIP - SB1023 FREEZER	88
89	P-H-E2	35 A	3						0	750		1	20 A	EQUIP - SB1023 FREEZER	90
91	--	--	--	--	0	1000						1	20 A	EQUIP - SB1023 CHEST FREEZER	92
93	--	--	--	--			0	500				1	20 A	EQUIP - SB1032 FRIDGE	94
95	P-H-G1	15 A	2						378	500		1	20 A	EQUIP - SB1032 AUTOCLAVE	96
97	--	--	--	--	378	500						1	20 A	EQUIP - SB1032 FRIDGE	98
99	P-H-G2	15 A	2				0	500				1	20 A	EQUIP - SB1032 BIOSAFETY CABINET	100
101	--	--	--	--					0	500		1	20 A	EQUIP - SB1032 INCUBATOR	102
103	P-H-GLY	15 A	1		84	500						1	15 A	EQUIP - SB1032 FRIDGE	104
105	F-FH-1	15 A	3				300	750				1	15 A	EQUIP - SB1032 FREEZER	106
107	--	--	--	--					300	1000	G	1	30 A	HT-1A & HT-1B	108
109	--	--	--	--	300	--					--	1	--	30mA GFP	110
111	F-FH-2	15 A	3				300	1000			G	1	30 A	HT-2A & HT-2B	112
113	--	--	--	--					300	--	--	1	--	30mA GFP	114
115	--	--	--	--	300	1000					G	1	30 A	HT-3A & HT-3B	116
117	F-FH-3	15 A	3				300	--			--	1	--	30mA GFP	118
119	--	--	--	--					300	1000	G	1	30 A	HT-4A & HT-4B	120
121	--	--	--	--	300	--					--	1	--	30mA GFP	122
123	F-C-1	15 A	1				696	1000			G	2	30 A	HT-5	124
125	F-C-2	15 A	1						500	1000	--	--	--	--	126
127	FC-1	20 A	2		1581	--					--	1	--	30mA GFP	128
129	--	--	--	--			1581	0			--	1	15 A	SPARE	130
131	FC-2	20 A	2						1581	0	--	1	15 A	SPARE	132
133	--	--	--	--	1581	0					--	1	15 A	SPARE	134
135	FC-3	15 A	2				1124	0			--	1	15 A	SPARE	136
137	--	--	--	--					1124	0	--	1	15 A	SPARE	138
139	FC-4	20 A	1		864	0					--	3	30 A	SPD	140
141	SPARE	15 A	1	--			0	0			--	--	--	--	142
143	SPARE	15 A	1	--					0	0	--	--	--	--	144
				Total Load:	34.71 kVA		34.33 kVA		35.13 kVA						
				Total Amps:	290 A		286 A		293 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	12000 VA	100.00%	12000 VA		
HVAC	46467 VA	100.00%	46467 VA	Total Conn. Load:	**104169 VA**
Heating	8196 VA	100.00%	8196 VA	Total Est. Demand:	**105160 VA**
Motor	30756 VA	103.22%	31747 VA	Total Conn.:	**289 A**
Receptacle	6750 VA	100.00%	6750 VA	Total Est. Demand:	**292 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Panel 2P3N

Stantec — Panel

Name: **2P3N**	Volts: 208Y/120V	Mains Type: MCB	Type:		
Location: AV RM P1006	Phases: 3	Mains Rating: 225 A	AIC Rating:		
Supply From: 2D1N	Wires: 4	MCB Rating: 225 A	Mounting: Surface		
Serves:		Lugs: Single Lugs	Enclosure: Type 1		

Notes:

CKT	Circuit Description	Trip	Poles	CB	A	A	B	B	C	C	CB	Poles	Trip	Circuit Description	CKT
1	RECEPT - CORRIDOR , SB1014	20 A	1		900	180						1	15 A	RECEPT - SB1005/06	2
3	RECEPT - SB1002	20 A	1				1080	360				1	15 A	FLOORBOX - SB1002	4
5	RECEPT - SB1002	15 A	1						1080	720		1	15 A	CLOCKS - SE	6
7	RECEPT - SB1003/04	20 A	1		720	900						1	15 A	CLOCKS - NE	8
9	RECEPT - SB1003	15 A	1				1080	500				1	15 A	LTG - NORTHEAST EXTERIOR SIGNAGE	10
11	EQUIP - SB1008 REFIGERATOR	15 A	1						180	240	G	1	20 A	K-1	12
13	EQUIP - SB1010 ATM	20 A	1		180	500						1	20 A	K-2	14
15	EQUIP - SB1010 VENDING MACHINE	15 A	1				180	500				1	20 A	K-2	16
17	RECEPT - SB1012	15 A	1						900	500		1	20 A	K-2	18
19	RECEPT - SB1012 AV	15 A	1		180	500						1	20 A	K-2	20
21	RECEPT - SB1009	15 A	1				360	2496			G	2	30 A	K-5	22
23	RECEPT - SB1016	15 A	1						720	2496	--	--	--	--	24
25	RECEPT - SB1016	15 A	1		540	1920					G	1	20 A	K-12	26
27	RECEPT - SB1016 AV	15 A	1				1080	1440			G	1	20 A	K-14	28
29	RECEPT - SB1017	15 A	1						720	840	G	1	20 A	K-15	30
31	RECEPT - SB1017	15 A	1		720	500					G	1	20 A	K-16	32
33	RECEPT - SB1017 AV	15 A	1				720	1440			G	1	20 A	K-17	34
35	RECEPT - SB1013/15	15 A	1						360	480	G	1	20 A	K-22	36
37	RECEPT -SB1018	15 A	1		720	1803						3	35 A	K-23	38
39	RECEPT -SB1018	15 A	1				720	1803			--	--	--	--	40
41	RECEPT - SB1018 AV	15 A	1						720	1803	--	--	--	--	42
43	RECEPT - SB1019	15 A	1		720	360						1	20 A	MOTOR SHADES - SB1018	44
45	RECEPT - SB1019	15 A	1				720	360				1	15 A	MOTOR SHADES - SB1019	46
47	RECEPT - SB1019 AV	15 A	1						720	180		1	15 A	MOTOR SHADES - SB1009	48
49	RECEPT - SB1020	15 A	1		540	180						1	15 A	MOTOR SHADES - SB1012	50
51	RECEPT - SB1011	15 A	1				720	180				1	15 A	MOTOR SHADES - S. SB1003	52
53	RECEPT - SB1008	15 A	1						900	180		1	15 A	MOTOR SHADES - S. SB1003	54
55	RECEPT - EXTERIOR SOUTHEAST	20 A	1		900	180						1	15 A	MOTOR SHADES - S. SB1003	56
57	RECEPT - EXTERIOR NORTHEAST	20 A	1				720	180				1	15 A	MOTOR SHADES - S. SB1003	58
59	RECEPT ROOF	20 A	1						180	180		1	15 A	MOTOR SHADES - S. SB1003	60
61	RECEPT ROOF	20 A	1		180	180						1	15 A	MOTOR SHADES - E. SB1003	62
63	EQUIP - B-3	15 A	1				0	180				1	15 A	MOTOR SHADES - E. SB1003	64
65	RECEPT - SB1012 FRIDGE	15 A	1						180	180		1	15 A	RECEPTACLE	66
67	EQUIP - SB1008 MW	15 A	1		500	0					--	1	15 A	RECEPT - PROJECTOR SCREEN	68
69	EQUIP - SB1008 MW	15 A	1				500	0			--	1	15 A	SPARE	70
71	EQUIP - TELESCOPIC CHAIR PLATFORM	20 A	3						333	0	--	1	15 A	SPARE	72
73	--	--	--	--	333	0					--	1	15 A	SPARE	74
75	--	--	--	--			333	0			--	1	15 A	SPARE	76
77	EQUIP - SKYFOLD PARTITION	20 A	3						0	0	--	1	15 A	SPARE	78
79	--	--	--	--	0	0					--	1	15 A	SPARE	80
81	--	--	--	--			0	0			--	1	15 A	SPARE	82
83	RECEPT - SB1010 AV / SB1008	15 A	1						540	0	--	1	15 A	SPARE	84
				Total Load:	14.34 kVA		17.65 kVA		15.33 kVA						
				Total Amps:	119 A		148 A		129 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	500 VA	100.00%	500 VA		
Kitchen Equipment - Non-Dwelling Unit	19760 VA	65.00%	12844 VA	Total Conn. Load:	**47320 VA**
Lighting	500 VA	125.00%	625 VA	Total Est. Demand:	**32999 VA**
Motor	1000 VA	125.00%	1250 VA	Total Conn.:	**131 A**
Power	0 VA	0.00%	0 VA	Total Est. Demand:	**92 A**
Receptacle	25560 VA	69.56%	17780 VA		

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Panel 2P1M

Stantec — Panel

Name: **2P1M**	Volts: 208Y/120V	Mains Type: MCB	Type:		
Location: ELECTRICAL ROOM P1030	Phases: 3	Mains Rating: 225 A	AIC Rating:		
Supply From: 2D1N	Wires: 4	MCB Rating: 225 A	Mounting: Surface		
Serves:		Lugs: Single Lugs	Enclosure: Type 1		

Notes:

CKT	Circuit Description	Trip	Poles	CB	A	A	B	B	C	C	CB	Poles	Trip	Circuit Description	CKT
1	DFH-1	20 A	1		1060	45						1	15 A	P-W-6, P-W-7	2
3	DFH-2	20 A	1				1060	1000				3	15 A	DHWH-3	4
5	DFH-3	20 A	1						1060	1000	--	--	--	--	6
7	DFH-4	20 A	1		1060	1000					--	--	--	--	8
9	DFH-5	20 A	1				1060	500				3	15 A	DHWH-4	10
11	DFH-6	20 A	1						1060	500	--	--	--	--	12
13	DFH-7	20 A	1		1060	500					--	--	--	--	14
15	DFH-8	20 A	1				1060	500				3	15 A	DHWH-5	16
17	DFH-9	20 A	1						1060	500	--	--	--	--	18
19	DFH-10	20 A	1		1060	500					--	--	--	--	20
21	DFH-11	20 A	1				1060	500				3	15 A	DHWH-6	22
23	DFH-12	20 A	1						1060	500	--	--	--	--	24
25	DFH-15	20 A	1		1060	500					--	--	--	--	26
27	DFH-16	20 A	1				1060	500				3	15 A	DHWH-7	28
29	DFH-17	20 A	1						1060	500	--	--	--	--	30
31	FH-1	20 A	1		1060	500					--	--	--	--	32
33	FH-2	20 A	1				1060	1000				1	15 A	F-E-1 / F-E-2	34
35	FH-3	20 A	1						1060						36
37	VP-1	20 A	1		1060	829						3	15 A	RO-1	38
39	VP-2	20 A	1				1060	829			--	--	--	--	40
41	VP-3	20 A	1						1060	829	--	--	--	--	42
43	VP-4	20 A	1		1060	30						1	15 A	TSP-1, TSP-2, TSP-3, TSP-4, TSP-5	44
45	VP-5	20 A	1				1060	1099				2	15 A	ERV-3	46
47	VP-6	20 A	1						1060	1099	--	--	--	--	48
49	VP-7	20 A	1		1060	864						1	15 A	F-FH-5	50
51	VP-8	20 A	1				1060	174				1	15 A	(FUTURE) F-R-1	52
53	VP-9	20 A	1						1060	174		1	15 A	(FUTURE) F-R-2	54
55	VP-10	20 A	1		1060	174						1	15 A	(FUTURE) F-R-3	56
57	VP-11	20 A	1				1060	0			--	1	15 A	SPARE	58
59	VP-12	20 A	1						1060	0	--	1	15 A	SPARE	60
61	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	62
63	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	64
65	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	66
67	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	68
69	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	70
71	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	72
73	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	74
75	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	76
77	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	78
79	SPARE	15 A	1	--	0	0					--	1	15 A	SPARE	80
81	SPARE	15 A	1	--			0	0			--	1	15 A	SPARE	82
83	SPARE	15 A	1	--					0	0	--	1	15 A	SPARE	84
				Total Load:	15.54 kVA		16.70 kVA		15.70 kVA						
				Total Amps:	130 A		139 A		131 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	40830 VA	100.00%	40830 VA		
Motor	7114 VA	108.74%	7736 VA	Total Conn. Load:	**47944 VA**
				Total Est. Demand:	**48566 VA**
				Total Conn.:	**133 A**
				Total Est. Demand:	**135 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

2P1N	**2P2N**	**2P3N**
	2P2E	**2P1M**

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Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09

Issued & Revision

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
ED, JC	BS, JC	CC	2024.05.06

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Client/Project
Yukon University
Polaris Project

Title
PANEL SCHEDULES

Project No. 144214760
Scale
Revision 6
Drawing No. **E711**

9/27/2024 1:48:56 PM
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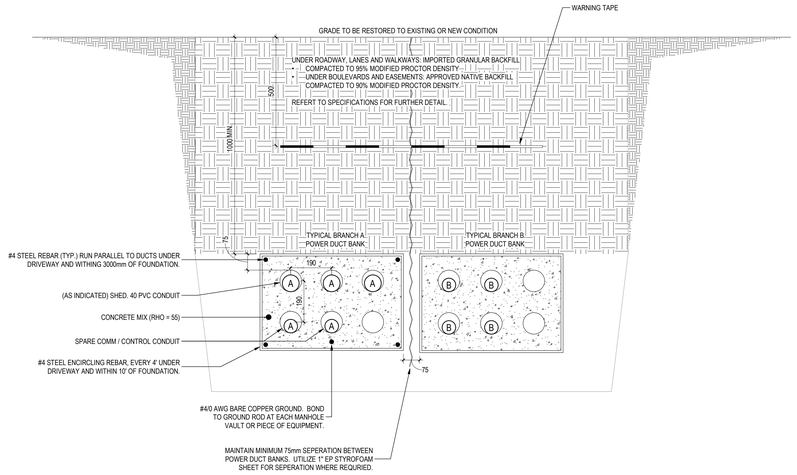


1 / E801 TYPICAL POWER DUCT BANK SECTION DETAIL

N.T.S.

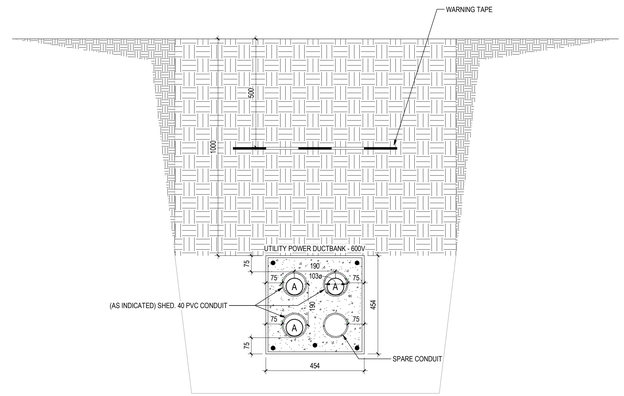
NOTES:

1. TYPICAL FOR EACH DUCTBANK. IN ADDITION TO THE POWER CONDUITS ILLUSTRATED, PROVIDE THE FOLLOWING UNDERGROUND CONDUITS FROM EACH GENERATOR ENCLOSURE TO STUB UP WITHIN THE ELECTRICAL ROOM. CONDUITS SHALL BE INCLUDED IN AS THE DUCTBANK IN ADDITION TO THE POWER CONDUITS.

   53mmC - ENGINE START SIGNAL
   53mmC - CONTROL CONDUIT
   53mmC - FIRE ALARM

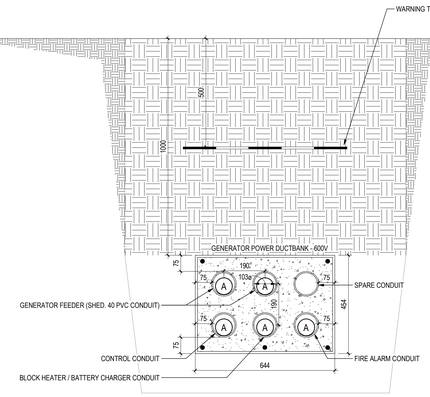
2 / E801 DUCTBANK COORDINATION

1 : 1



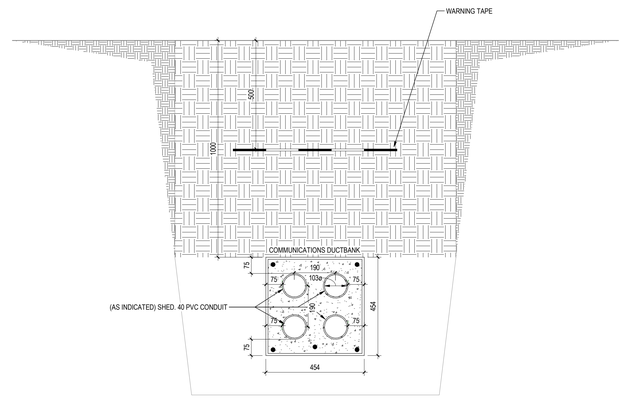
3 / E801 UTILITY POWER DUCTBANK

N.T.S.



4 / E801 GENERATOR POWER DUCTBANK

N.T.S.



5 / E801 COMMUNICATIONS DUCTBANK

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Keyplans

Notes

A	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
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4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
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Issued & Revision		By	Appd	YYYY.MM.DD

ED. JC	BS. JC	CC	2024.05.06
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Client/Project
Yukon University
Polaris Project

Title
ELECTRICAL DETAILS

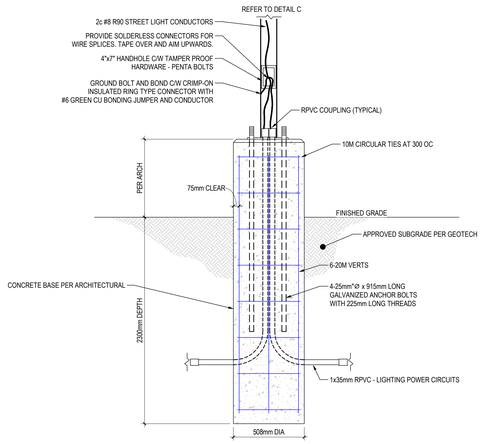
Project No.
144214760

Scale
As indicated

Revision
6

Drawing No.
E801

ORIGINAL SHEET - ISO A0



1 / E802 LUMINAIRE TYPE XP1 BASE DETAIL

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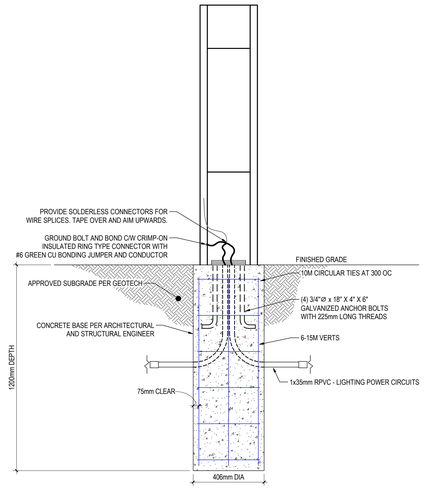

3 / E802 LUMINAIRE TYPE XB1

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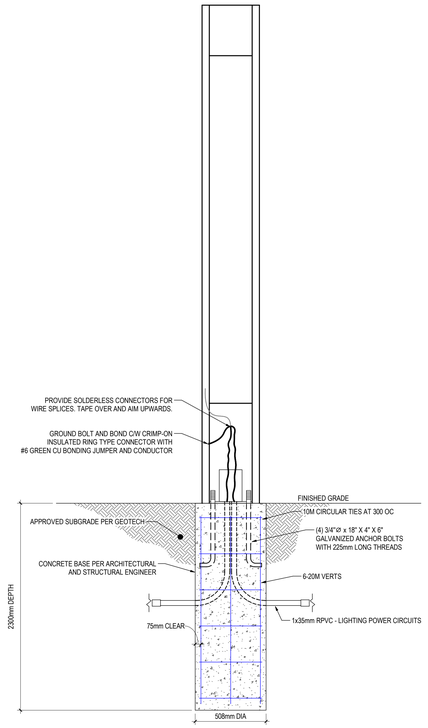

4 / E802 LUMINAIRE TYPE XC1

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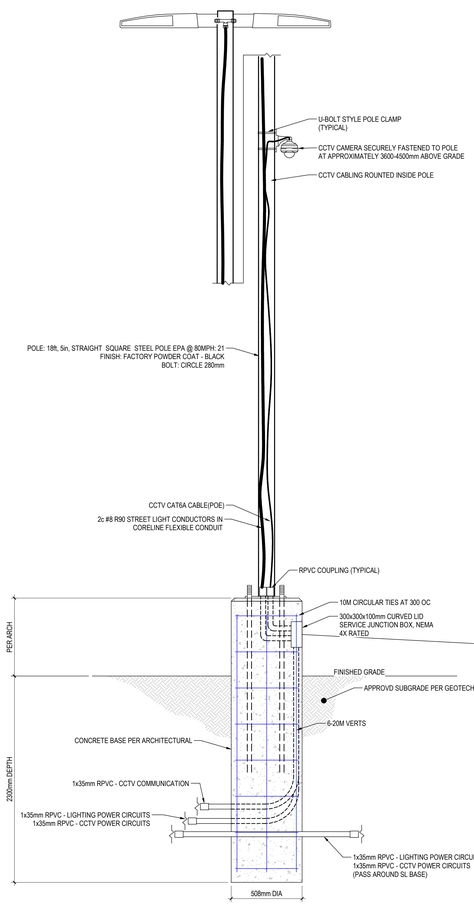

2 / E802 LUMINAIRE TYPE XP1 BASE WITH CCTV CAMERA DETAIL

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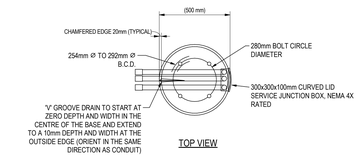
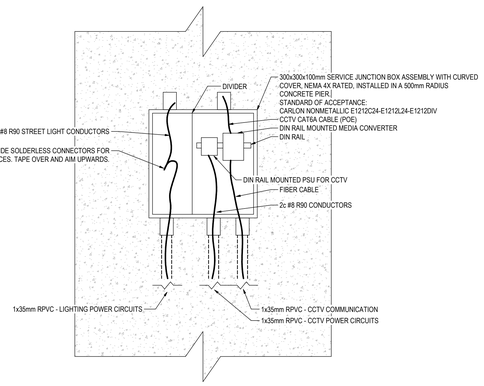
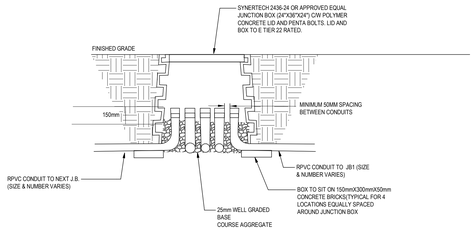


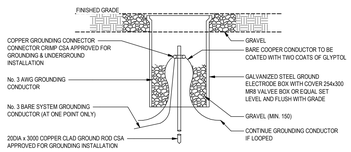


SERVICE JUNCTION BOX DETAIL



5 / E802 EXTERIOR SITE JUNCTION BOX - INSTALLATION DETAILS

N.T.S.



6 / E802 GROUND ROD DETAIL

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Notes

6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
Issued & Revision		By	Appd	YYYY.MM.DD

ED, JC	BS, JC	CC	2024.05.06
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Client/Project
Yukon University
Polaris Project

Title
ELECTRICAL DETAILS

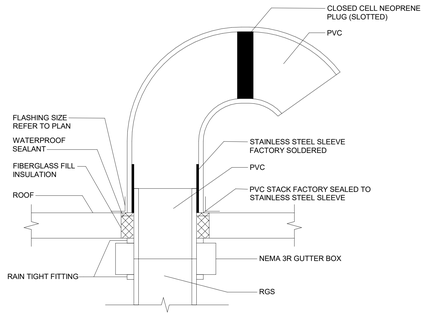
Project No. 144214760

Scale As indicated

Revision 6

Drawing No. **E802**

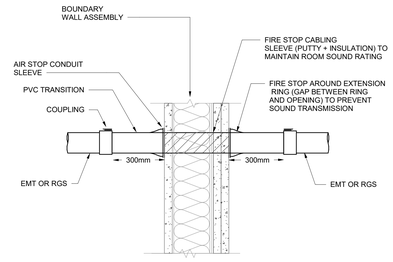
ORIGINAL SHEET - ISO A0



NOTE: DETAIL USED FOR ROOF PENETRATIONS (I.E., PV, ANTENNA). PROVIDE SBC INDUSTRIES MODEL CGS CABLE GOOSENECK FLASHING OR SIMILAR.

1 E803 TYPICAL GOOSENECK DETAIL

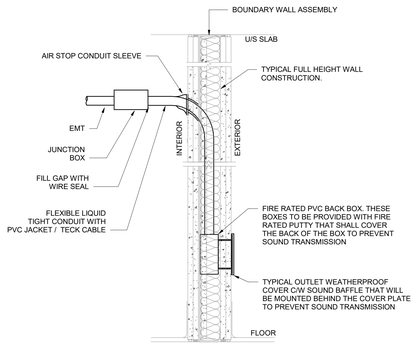
N.T.S.



PLAN VIEW

2 E803 CONDUIT AIR TIGHT DETAIL

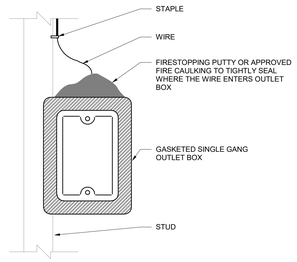
N.T.S.



SIDE VIEW

3 E803 CONDUIT THERMAL BREAK DETAIL

N.T.S.



4 E803 AIRTIGHT SEALING OF ELECTRICAL OUTLETS DETAIL

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Keyplans

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4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
2	ISSUED FOR 75% SUBMISSION	BS	TF	2023.01.25
Issued & Revision		By	Appd	YYYY.MM.DD

ED, JC	BS, JC	CC	2024.05.06
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Polaris Project

Title
ELECTRICAL DETAILS

Project No. 144214760

Scale N.T.S.

Revision 6

Drawing No. **E803**

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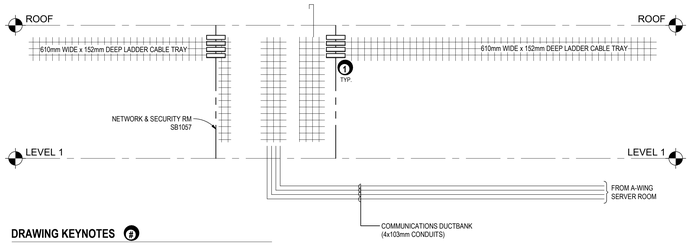
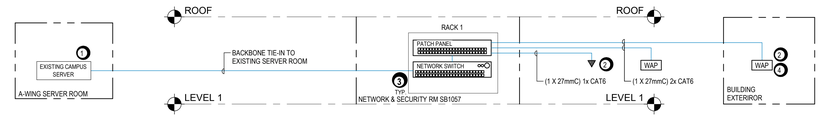


DRAWING KEYNOTES 2

1. PROVIDE EIGHT (8) HILTI CP-653 SPEED SLEEVES FOR EACH COMMUNICATIONS ROOM HORIZONTAL ENTRY. EACH COMMUNICATIONS ROOM SHALL HAVE A MINIMUM OF TWO (2) HORIZONTAL ENTRIES.

2 / E804 COMMUNICATIONS PATHWAYS RISER DIAGRAM

1 : 1

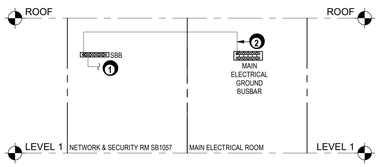


DRAWING KEYNOTES:

1. INTEGRATION WITH EXISITNG GENETIC SYSTEM & SYSTEM COMMISSIONING SHALL BE DONE BY OWNER.
2. REFER TO DRAWINGS FOR DATA AND WAP LOCATIONS AND QUANTITY.
3. NETWORK SWITCHES BY OTHERS.
4. OUTDOOR WAPS SHALL BE OUTDOOR RATED AND INTEGRATED INTO BOLLARD LIGHT FIXTURE.

1 / E804 DATA SYSTEMS RISER DIAGRAM

N.T.S.



DETAIL KEYNOTES: 2

1. (TYPICAL) BONDING REQUIREMENTS FROM EACH PBB/SBB:

   #6 COPPER AWG GREEN JACKETED CABLE TO:

   - EACH RACK / CABINET
   - ELECTRICAL PANEL (LOCATED INSIDE THE TELECOMMUNICATIONS ROOM)
   - BUILDING STEEL STRUCTURE
   - METALLIC BACKBONE RISER CONDUITS
   - CABLE TRAY / LADDER RACK
   - CABLE SHIELDS
   - ENTRANCE CONDUITS
   - ARMOURED FIBER JACKET
   - UTP CABLE PROTECTORS
   - ANTI-STATIC FLOORING

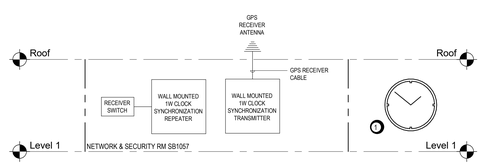
2. #4/0 BONDING CONDUCTOR FROM MAIN ELECTRICAL ROOM TO COMMUNICATIONS ROOM P1003.

GENERAL NOTES:

1. EQUIPMENT RACKS AND COMMUNICATIONS EQUIPMENT SHALL BE BONDED WITH A #6 AWG GREEN BONDING WIRE. EACH RACK SHALL BE BONDED WITH A #6 AWG GREEN WIRE DIRECTLY TO THE NEAREST SBB (STAR-WIRED)
2. ALL COMMUNICATIONS EMT CONDUIT AND CABLE TRAY LEAVING THE TELECOMMUNICATIONS ROOM SHALL BE BONDED.
3. ELECTRICAL PANELS, ARMOURED FIBER JACKETS, FLOOR GROUNDING COPPER STRIPS, HVAC DUCTS AND PRIMARY PROTECTORS IN THE TELECOMMUNICATIONS ROOM SHALL BE BONDED.
4. SBB = SECONDARY BONDING BUSBAR
5. PBB = PRIMARY BONDING BUSBAR
6. USE COMPRESSION H-TAPS AND TWO-HOLE COMPRESSION LUGS FOR ALL CONNECTIONS

4 / E804 TELECOMMUNICATIONS GROUNDING & BONDING SYSTEM

1 : 1



GENERAL NOTES

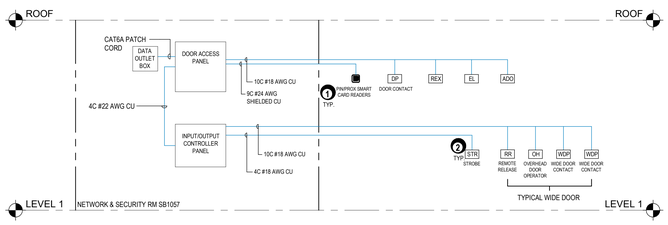
1. ALL COMPONENTS OF SYNCHRONIZED CLOCK SYSTEM TO BE MANUFACTURED BY PRIMEX
2. ALL CLOCKS TO HAVE POLYCARBONATE LENSES. PROVIDE TAMPERPROOF FASTENINGS AND CENTRE PIN REJECTION SCREWS IN ALL STUDENT ACCESSIBLE AREAS.
3. COORDINATE THE LOCATION OF THE GPS RECEIVER ANTENNA
4. CONNECT TO THE EXISTING BUILDING NETWORK TIME SERVER FOR THE SYNCHRONIZATION OF ALL CLOCKS THOUGHOUT THE CAMPUS

DRAWING KEYNOTES

1. REFER TO DRAWINGS FOR LOCATIONS OF CLOCKS

3 / E804 SYNCHRONIZED WIRELESS CLOCKS RISER DIAGRAM

N.T.S.



NOTES:

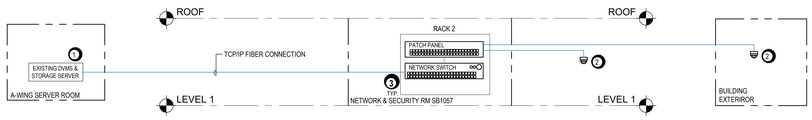
1. INTEGRATION WITH EXISTING JOHNSON CONTROLS SYMMETRY PLATFORM & SYSTEM COMMISSIONING SHALL BE DONE BY THE OWNER.
2. INTELLIGENT DOOR CONTROLLERS (DBC) PROVIDE SUPPORT FOR 8 CARD READERS. DOOR CONTROLLERS (DC) EXTEND DBC SUPPORT UP TO 16 CARD READERS.

DRAWING KEYNOTES:

1. PROVIDE LOCAL ANNUNCIATORS. REQUEST TO EXIT DEVICES AND DOOR CONTACTS FOR A COMPLETE ACCESS CONTROL SYSTEM.
2. STROBE LIGHT SHALL BE POWERED BY THE DOOR ACCESS SYSTEM.

6 / E804 ACCESS CONTROL, INTRUSION DETECTION AND DURESS SYSTEMS RISER DIAGRAM

N.T.S.

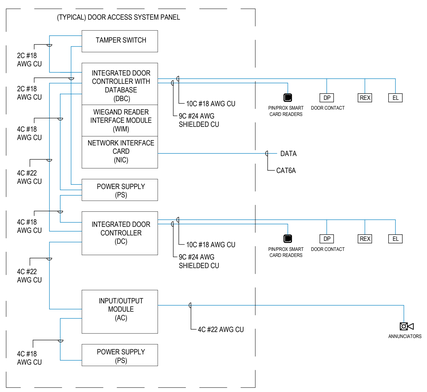


DRAWING KEYNOTES:

1. INTEGRATION WITH EXISITNG GENETIC SYSTEM & SYSTEM COMMISSIONING SHALL BE DONE BY OWNER.
2. REFER TO DRAWINGS FOR CAMERA LOCATIONS
3. NETWORK SWITCHES BY OTHERS.

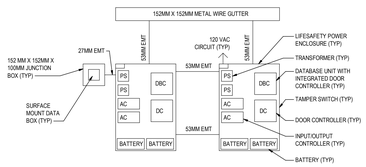
5 / E804 CCTV CAMERA SYSTEM RISER DIAGRAM

N.T.S.



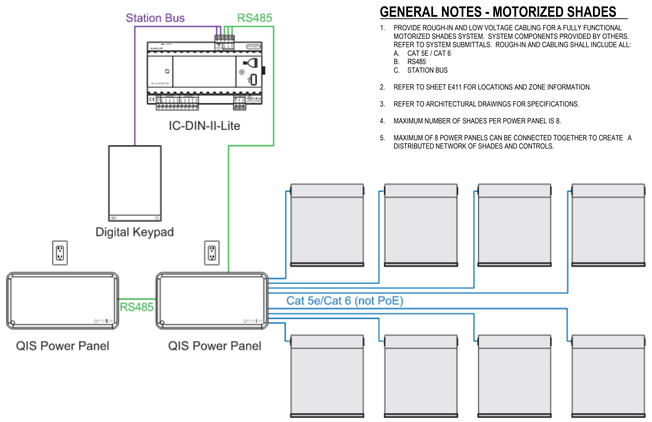
7 / E804 TYPICAL ACCESS CONTROL, INTRUSION DETECTION AND DURESS SYSTEMS SINGLE LINE DIAGRAM

N.T.S.



8 / E804 TYPICAL SECURITY ACCESS PANEL DETAIL

N.T.S.



GENERAL NOTES - MOTORIZED SHADES

1. PROVIDE ROUGH-IN AND LOW VOLTAGE CABLING FOR A FULLY FUNCTIONAL MOTORIZED SHADES SYSTEM. SYSTEM COMPONENTS PROVIDED BY OTHERS. REFER TO SYSTEM SUBMITTALS. ROUGH-IN AND CABLING SHALL INCLUDE ALL:
   A. CAT 5E / CAT 6
   B. RS485
   C. STATION BUS
2. REFER TO SHEET E411 FOR LOCATIONS AND ZONE INFORMATION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS.
4. MAXIMUM NUMBER OF SHADES PER POWER PANEL IS 8.
5. MAXIMUM OF 8 POWER PANELS CAN BE CONNECTED TOGETHER TO CREATE A DISTRIBUTED NETWORK OF SHADES AND CONTROLS.

9 / E804 TYPICAL MOTORIZED SHADES

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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
		By	Appd	YYYY.MM.DD

Issued & Revision

BD. JC	BS. JC	CC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project

Yukon University

Polaris Project

Title

COMMUNICATION BACKBONE PATHWAYS, CABLING, GROUNDING & SYSTEM RISERS

Project No. 144214760

Scale 1 : 1

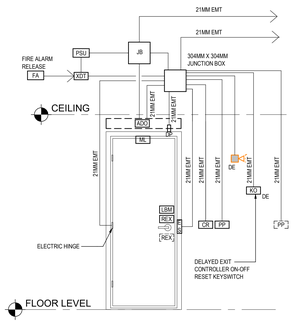
Revision 6

Drawing No. **E804**

ORIGINAL SHEET - ISO A0

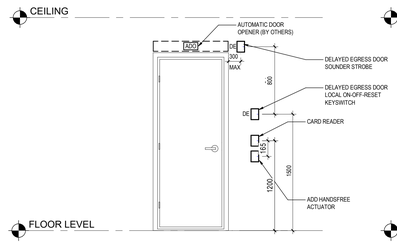
TYPICAL DOOR DEVICE COORDINATION DETAIL

NOTE:
EXACT DOOR HARDWARE CONFIGURATION TO BE COORDINATED WITH ARCHITECTURAL DOOR HARDWARE PACKAGES LOCATED ON SHEET SHEET A600. ELEVATION SHOWN FOR REFERENCE ONLY.



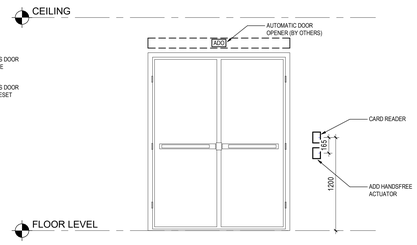
TYPICAL DOOR DEVICES MOUNTING ELEVATIONS

GENERAL NOTES
1. REFER TO PLAN FOR LOCATION OF DEVICES
2. DEVICE LOCATION APPLIES TO BOTH SIDES OF DOOR, WHERE SHOWN ON PLAN



TYPICAL SINGLE DOOR ACS DEVICES DETAIL

GENERAL NOTES
1. REFER TO PLAN FOR LOCATION OF DEVICES
2. DEVICE LOCATION APPLIES TO BOTH SIDES OF DOOR, WHERE SHOWN ON PLAN



TYPICAL DOUBLE DOOR ACS DEVICES DETAIL

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Keyplans

Notes

6	RE-ISSUED FOR TENDER	CG	TF	2024.09.30
5	ISSUED FOR TENDER	JC	TF	2024.05.06
4	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
	Issued & Revision	By	Appd	YYYY.MM.DD

	ED., JC	BS., JC	CC	2024.05.06
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
DOOR HARDWARE TYPICAL CONFIGURATIONS AND ELEVATIONS

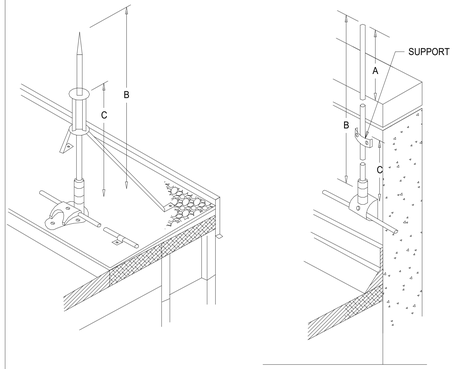
Project No. 144214760

Scale N.T.S.

Revision 6

Drawing No. **E805**

ORIGINAL SHEET - ISO A0



AIR TERMINAL SHALL BE SECURED AGAINST OVERTURNING BY ONE OF THE FOLLOWING METHODS:

2. BRACES THAT ARE PERMANENTLY AND RIGIDLY ATTACHED TO THE BUILDING.

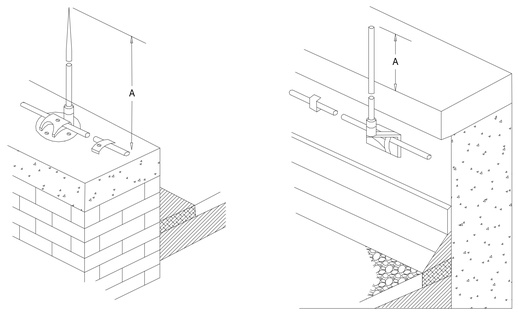
AIR TERMINALS EXCEEDING 600mm (24 in.) IN HEIGHT ABOVE THE AREA OR OBJECT THEY ARE TO PROTECT SHALL BE SUPPORTED AT A POINT NOT LESS THAN ONE-HALF THEIR

1. ATTACHMENT TO THE OBJECT TO BE PROTECTED.
B: AIR TERMINALS OVER 600mm (24 in.) TALL ARE SUPPORTED.
C: AIR TERMINAL SUPPORTS ARE LOCATED AT A POINT NOT LESS THAN ONE-HALF THE HEIGHT, AS SHOWN.

NOTE: AIR TERMINAL TIP CONFIGURATIONS CAN BE SHARP OR BLUNT.
A: 600 mm (24 in.)

HEIGHT OF THE AIR TERMINAL.

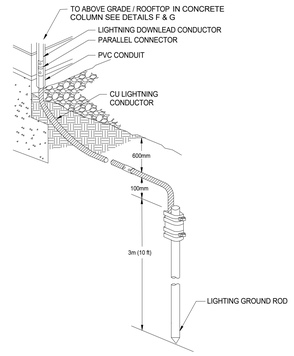
A - TYPICAL AIR TERMINAL SUPPORT
N.T.S.



AIR TERMINALS HEIGHT. THE TIP OF AN AIR TERMINAL SHALL BE NOT LESS THAN 254mm (10 in.) ABOVE THE OBJECT OR AREA IT IS TO PROTECT, AS SHOWN.

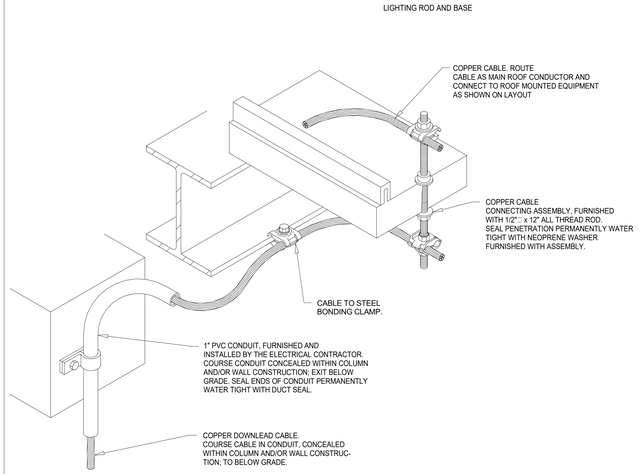
NOTE: AIR TERMINAL TIP CONFIGURATIONS CAN BE SHARP OR BLUNT.

B - TYPICAL AIR TERMINAL HEIGHT
N.T.S.

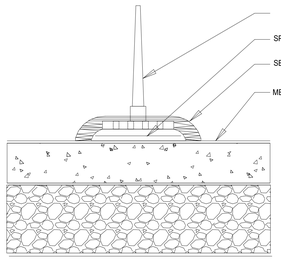


GROUND ROD DEPTH:
A. THE GROUND RODS SHALL EXTEND VERTICALLY NOT LESS THAN 2M (10 ft.) INTO THE EARTH.
B. THE EARTH SHALL BE COMPACTED AND MADE TIGHT AGAINST THE LENGTH OF THE CONDUCTOR OR GROUND ROD AS ILLUSTRATED.

C - TYPICAL LIGHTNING GROUND ROD INSTALLATION
N.T.S.



D - TYPICAL THRU-ROOF CABLE CONNECTION
N.T.S.

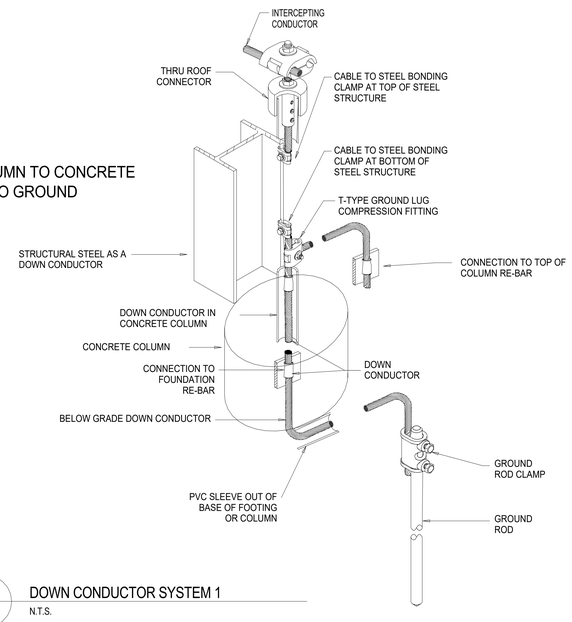


NOTES:

1. CLEAN EXPOSED MEMBRANE WITH WEATHERED MEMBRANE CLEANER.
2. APPLY ADHESIVE TO THE MEMBRANE AND LIGHTNING ROD BASE.
3. INSTALL A SECTION OF SPLICE TAPE (APPROXIMATELY THE SIZE OF THE METAL BASE) TO THE MEMBRANE SURFACE. LEAVE THE RELEASE FILM IN PLACE AND ROLL TAPE FROM THE CENTER TO THE OUTER EDGES.
4. REMOVE RELEASE FILM AND CAREFULLY PLACE METAL BASE OVER SPLICE TAPE.
5. APPLY ADHESIVE MEMBRANE WHERE SEALANT IS TO BE APPLIED. ALLOW TO DRY UNTIL TACK FREE, SEAL ALL EDGES AND ANY EXPOSED AREAS OF TAPE (AT PERFORATED BASE).

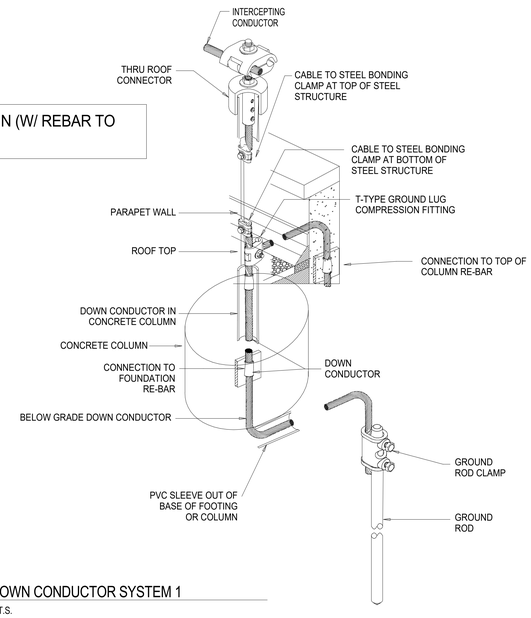
E - TYPICAL ROOF-ROD ATTACHMENT DETAIL
N.T.S.

STEEL COLUMN TO CONCRETE W/ REBAR TO GROUND



F - DOWN CONDUCTOR SYSTEM 1
N.T.S.

CONCRET COLUMN (W/ REBAR TO GROUND)



G - DOWN CONDUCTOR SYSTEM 1
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Keyplans

Notes

Issued & Revision				
4	RE-ISSUED FOR TENDER	GS	TF	2024.09.30
3	ISSUED FOR TENDER	JC	TF	2024.05.06
2	ISSUE FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
1	ISSUED FOR 90% SUBMISSION	JC	TF	2024.02.09
		By	Appd	YYYY.MM.DD

RD, JC	BS, JC	CC	2024.05.06
Dwn.	Dsgn.	Chkd	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
LIGHTNING PROTECTION DETAILS

Project No. 144214760
Scale N.T.S.
Revision 6
Drawing No. **E806**

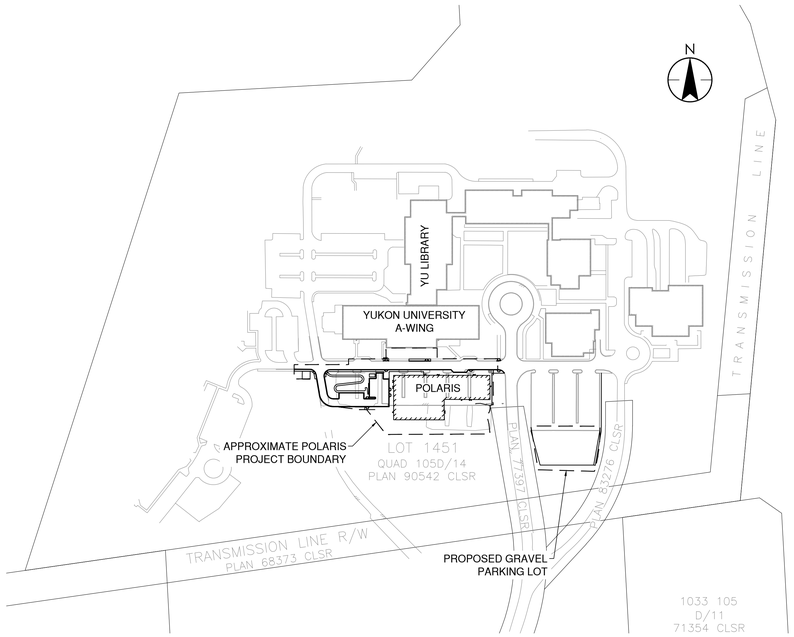
ORIGINAL SHEET - ISO A0

GENERAL NOTES:

1. CONTRACTOR SHALL BE REGISTERED WITH YUKON WORKERS' SAFETY AND COMPENSATION BOARD.
2. ALL WORK AND MATERIAL TO BE IN ACCORDANCE WITH THESE DRAWINGS, PROJECT SPECIFICATIONS AND APPLICABLE SECTIONS OF THE NATIONAL PLUMBING CODE OF CANADA 2020. ALL SITE WORKS SHALL BE DONE IN ACCORDANCE WITH CITY OF WHITEHORSE SERVING STANDARDS MANUAL SPECIFICATIONS.
3. ALL NECESSARY PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
4. ALL EXISTING SERVICES TO BE EXPOSED AT CONNECTION AND CROSSING POINTS PRIOR TO NEW SERVICE INSTALLATIONS.
5. LOCATIONS OF ALL EXISTING SERVICES, FEATURES AND APPURTENANCES SHOWN ON THE DRAWINGS ARE LARGELY BASED ON RECORD DRAWINGS AND SHALL BE CONSIDERED APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE LOCATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTIONS AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER.
6. ALL AREAS AND AMENITIES DISTURBED BY THE CONTRACTOR OR AFFECTED BY THE WORK SHALL BE REINSTATED OR RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. ANY REPAIRS AND ASSOCIATED COST TO EXISTING UTILITIES AND FEATURES/SURFACES REQUIRED DUE TO DAMAGE BY CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR TO PROVIDE UTILITY 'AS CONSTRUCTED' INFORMATION TO THE ENGINEER ON COMPLETION OF INSTALLATION. INFORMATION TO INCLUDE DIMENSIONED HORIZONTAL LOCATIONS AND SERVICE INVERT ELEVATIONS OF NEW AND EXISTING UNDERGROUND UTILITIES ON A CLEAN SET OF REDLINE MARKUP DRAWINGS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING AND SITE LAYOUT DETAILS.
10. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL, LIGHTING, COMMUNICATIONS DUCTING AND APPURTENANCES
11. REFER TO MECHANICAL DRAWINGS FOR BUILDING SERVICE CONNECTIONS, PIPING AND APPURTENANCES.
12. PROTECT TREES DESIGNATED TO REMAIN BY ERECTING HOARDING AROUND DRIP LINE AS INDICATED ON PLAN.
13. PROVIDE EROSION & SEDIMENT CONTROL WORKS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
14. SITE ACCESS FOR CONSTRUCTION WILL BE FROM UNIVERSITY DRIVE ONLY AT DESIGNATED LOCATIONS. CONTRACTOR IS TO PROVIDE TRAFFIC CONTROL. SIGNAGE AND FLAGPERSONS AS REQUIRED TO ENSURE SAFE MOVEMENT OF CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE AND MINIMIZE DISRUPTION OF NORMAL TRAFFIC FLOWS. SIGNAGE AND FLAGGING SHALL BE IN ACCORDANCE WITH 'TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS' AND APPLICABLE CITY OF WHITEHORSE REQUIREMENTS.
15. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR DETAILS OF EXPECTED EXISTING SOIL CONDITIONS.
16. ALL WATERMAIN PIPE TO BE HDPE DR11 UNLESS OTHERWISE NOTED.
17. PROVIDE A MINIMUM 3m COVER FOR UNINSULATED WATERMAINS.
18. WATERMAINS WITH LESS THAN 3m COVER SHALL HAVE MINIMUM 50mm FACTORY APPLIED INSULATION AND POLYETHYLENE JACKETING (HEAT TRACE REQUIRED AS PER DRAWINGS)
19. ALL NEW WATERMAINS TO HAVE METALLIC CAUTION TAPE PLACED 300mm ABOVE THEM ON THE PIPE BEDDING.
20. MAINTAIN A MINIMUM OF 3m HORIZONTAL CLEAR SEPARATION AND 450mm CLEAR VERTICAL SEPARATION BETWEEN WATERMAINS AND ALL SANITARY SEWERS/SERVICES AND DRAIN SEWERS/SERVICES EXCEPT WHERE NOTED AND APPROVED BY THE ENGINEER. WHERE THE ABOVE-NOTED SEPARATIONS CANNOT BE ACHIEVED, THE WATERMAIN JOINTS SHALL BE WRAPPED WITH PETROLATUM TAPE FOR 4.0m EITHER SIDE OF THE SEWER MAIN. WHERE A VERTICAL SEPARATION OF 150mm CANNOT BE ACHIEVED, SPECIAL MITIGATIVE SEWER MEASURES SHALL BE APPROVED BY THE ENGINEER.
21. MAINTAIN A MINIMUM OF 1.5m HORIZONTAL CLEAR SEPARATION AND 150mm CLEAR VERTICAL SEPARATION BETWEEN WATERMAINS AND ELECTRICAL CONDUITS, GAS MAINS AND TELEPHONE CONDUITS EXCEPT WHERE NOTED AND APPROVED BY THE PROJECT ENGINEER AND REQUISITE UTILITY.
22. CONTRACTOR SHALL CONDUCT PRESSURE TEST ON NEW WATERMAINS AND SERVICES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS IN THE PRESENCE OF THE PROJECT ENGINEER.
23. CONTRACTOR SHALL FLUSH AND DISINFECT WATERMAINS IN ACCORDANCE WITH AWWA C651-05 STANDARDS AND CITY OF WHITEHORSE SERVICING STANDARDS MANUAL AS APPROVED BY THE ENGINEER. WATER SAMPLES FOR HEALTH TESTS TO BE COLLECTED AND PROCESSED BY THE CONTRACTOR AND PROVIDED TO THE PROJECT ENGINEER.
24. CHLORINE SOLUTION SHALL BE NEUTRALIZED IN ACCORDANCE WITH MINISTRY OF ENVIRONMENT AND FISHERIES AND OCEANS REGULATIONS.
25. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
26. ELEVATIONS ARE GEODETIC DATUM.
27. DIGITAL DRAWINGS ARE AVAILABLE FOR CONTRACTOR USE. ALL LAYOUT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
28. THE CONTRACTOR SHALL ENSURE CONTINUOUS AND SAFE ACCESS FOR VEHICLES AND PEDESTRIANS TO ALL LOTS/PROPERTIES DURING CONSTRUCTION.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING BURIED UTILITY OWNERS PRIOR TO ANY EXCAVATION.
30. MAKE ALL BRANCH CONNECTIONS INTO GRAVITY SANITARY SEWER OR STORM DRAIN MAIN LINES USING WYE FITTINGS DIRECTING THE FLOW INTO THE FLOW DIRECTION OF THE MAIN LINE.
31. ALL WATERMAIN BENDS AND TEES TO BE RESTRAINED USING MECHANICAL JOINT RESTRAINTS, TIE RODS AND THRUST BLOCKS.
32. ALL SANITARY AND STORM PIPING GREATER THAN 150Ø TO BE PVC SDR35 UNLESS OTHERWISE NOTED.
33. ALL SANITARY AND STORM PIPING 150Ø OR LESS TO BE PVC SDR28 UNLESS OTHERWISE NOTED.
34. PROVIDE A MINIMUM 3m COVER FOR UNINSULATED SANITARY AND STORM PIPING.
35. SANITARY AND STORM PIPING WITH LESS THAN 3m COVER SHALL HAVE MINIMUM 50mm INSULATION AND POLYETHYLENE JACKETING (HEAT TRACE REQUIRED AS PER DRAWINGS)
36. ALL UTILITIES INSTALLED UNDER RETAINING WALLS TO BE INSTALLED IN PVC SLEEVE FOR 1.0m EITHER SIDE OF WALL FOOTING.
37. REFER TO LANDSCAPE DRAWINGS FOR LOCATION AND DETAILS OF IRRIGATION SLEEVES.
38. FOR ALL GRADING AND LAYOUT INFORMATION BEHIND THE BACK OF CURB (ie. SIDEWALKS, LANDSCAPED AREAS ETC.) REFER TO LANDSCAPE DRAWINGS.
39. ANY EXISTING CASTINGS LOCATED WITHIN THE AREA OF WORK COVERED UNDER THIS CONTRACT SHALL BE ADJUSTED AS REQUIRED TO SUIT NEW GRADE AS AN INCIDENTAL PART OF THE WORK.
40. ALL NEW TRAFFIC CONTROL AND STREET IDENTIFICATION SIGNS SHALL BE IN ACCORDANCE WITH CITY OF WHITEHORSE SERVICING STANDARDS MANUAL - SECTION 3.21.
41. ALL SIDEWALKS, APRONS, AND EXTERIOR SLABS WITH A WIDTH GREATER THAN 1.5m SHALL BE REINFORCED WITH A MINIMUM 150X150 P8/8 GAUGE WIRE MESH.

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	TREE	
	BUILDING	
X	FENCE	X
	TOP OF BANK	
	TOE OF BANK	
	EDGE OF EROSION CONTROL OR GRASS SWALE	
	POWER POLE	
	ASPHALT PAVEMENT	
NMC	NON MOUNTABLE CURB	BC
RC	MOUNTABLE CURB	RC
	ASPHALT CURB	AC
	EDGE OF GRAVEL	
	RETAINING WALL	
	SAWCUT	
72	CONTOUR LINE	77
	LIGHT STANDARD	
	LIGHTED BOLLARD	
	CATCH BASIN	
	DRAIN MANHOLE	DMH
	SANITARY SEWER MANHOLE	SMH
	BOREHOLE	
	CULVERT INLET/OUTLET	
	CLEAN OUT	
D	STORM SEWER	D
S	SANITARY SEWER	S
	SANITARY SERVICE	
	DITCH	
W	WATERMAIN	W
	WATER SERVICE	
G	GAS LINE	G
UE	POWER	UE
	HEATED WATER CONDUIT	
FH	FIRE HYDRANT	
	GATE VALVE	
	IRRIGATION CONTROL VALVE	
	COUPLER	
	BOLLARD	
	ROCK PIT	
	PROPOSED/ EXISTING ELEVATION	F XX.XX E XX.XX
	ROAD SIGN	



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Yellowknife NT X1A 2P4
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Legend

Notes

Revision	By	Appd.	YY.MM.DD
B REVISED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c001.dwg	AF	AC	CA 2024/05/06
	Dwn.	Chkd.	Dsgn. YY.MM.DD

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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

CIVIL NOTES, LEGEND AND ABBREVIATION

Project No. 1442114760

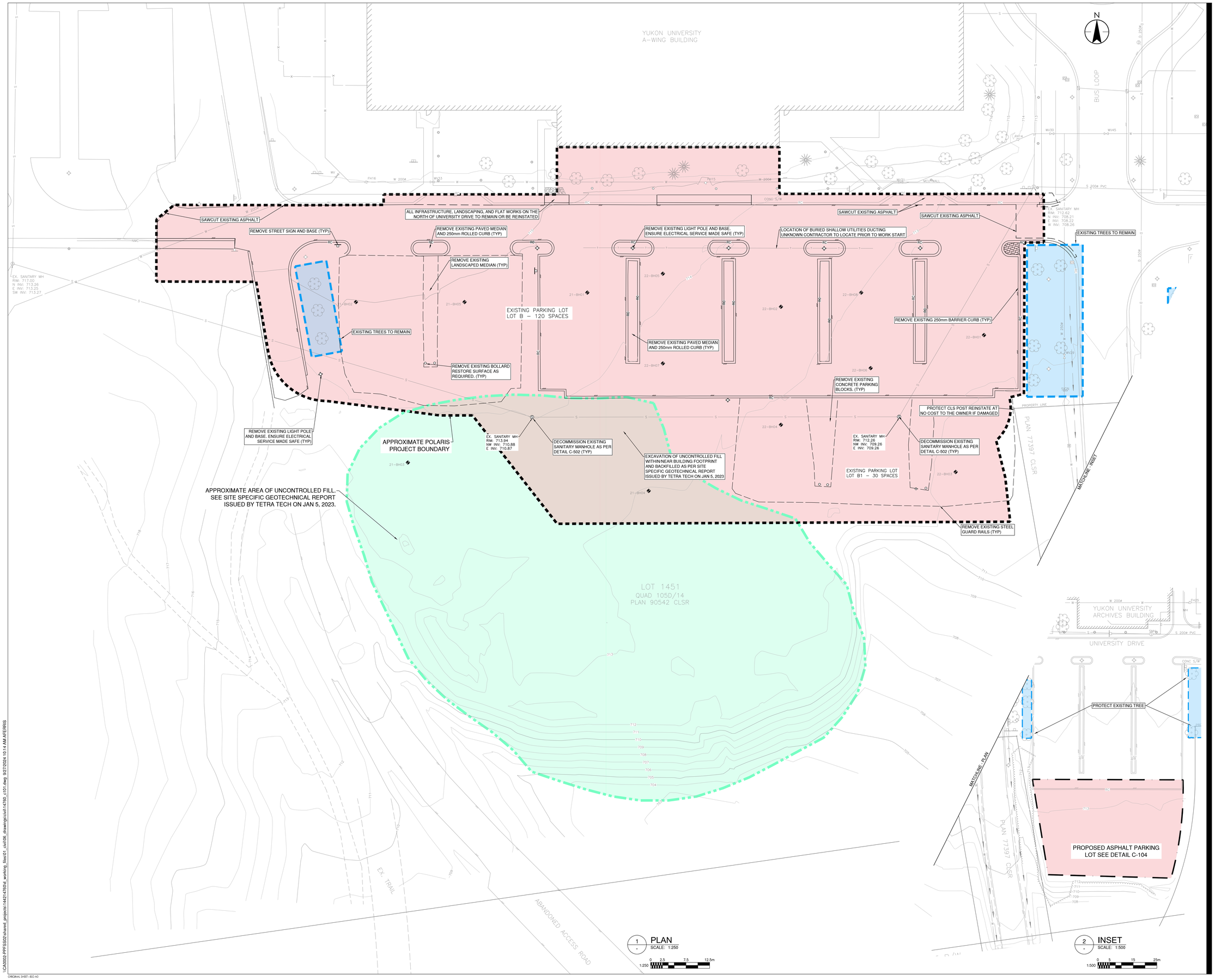
Scale 1:2000 0 20 60 100m

Drawing No. C-001

Sheet of

Revision -

ORIGINAL SHEET - ISO A0



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Consultants

Legend

Notes

HORIZONTAL COORDINATE SYSTEM NOTE
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM, ZONE 7N, CM 141°00'00"W)
DATUM: NAD83(2002.0)

VERTICAL DATUM NOTE
ELEVATIONS ARE REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD28)
AND ARE DERIVED FROM CSRS-PPP (CANADIAN SPATIAL REFERENCE SYSTEM PRECISE POINT POSITIONING) GNSS OBSERVATIONS

UNLESS OTHERWISE NOTED, ALL COORDINATES AND ELEVATIONS ARE IN METERS.

GENERAL NOTES:

1. APPROVAL FROM CONSULTANT REQUIRED BEFORE REMOVAL OF ANY TREES IN/NEAR THE PROJECT SITE.
2. REFER TO SITE SPECIFIC GEOTECHNICAL REPORT ISSUED BY TETRA TECH ON JAN 5, 2023 FOR EXISTING CONDITIONS, BOREHOLE LOGS, SUBSURFACE INFORMATION, AND CONSTRUCTION REQUIREMENTS
3. CONSTRUCTION IN ACCORDANCE WITH THE CITY OF WHITEHORSE SERVICING STANDARDS MANUAL.
4. ALL MATERIALS NEW AND CSA APPROVED AND CONFORM TO THE CITY OF WHITEHORSE SERVICING STANDARDS MANUAL.
5. ALL ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE REPORTED TO THE CONSULTANT.
6. ALL DESIGN CHANGES ARE TO BE COORDINATED WITH THE CONSULTANT PRIOR TO CONSTRUCTION.
7. ALL DIMENSIONS ARE IN METRES AND ALL PIPE DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE NOTED.
8. EXISTING SANITARY SEWER TO BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED.
9. CONTRACTOR TO DETERMINE EXACT SERVICE LOCATIONS IN FIELD, WITH APPROVAL FROM THE CONSULTANT.
10. ALL BOUNDARY VALVE OPERATIONS MUST BE DONE BY CITY STAFF. CONTACT CITY'S WATER AND WASTE SERVICES DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO REQUIRING VALVE OPERATION AT 668-8350.

Revision	By	Appd.	YY.MM.DD
B REVISED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c101.dwg	AF	AC	CA 2024/02/08
	Dwn.	Chkd.	Dsgn. YY.MM.DD

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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

CIVIL SITE PLAN
EXISTING CONDITIONS AND DEMOLITION

Project No.	Scale	
1442114760	AS SHOWN	

Drawing No.	Sheet	Revision
C-101	of	-

\\CA0002-PPFSS02-ehamd_projects\1442\14760\d_working_files\01_civil\06_drawings\civil\14760_c101.dwg 9/27/2024 10:14 AM AFERRIS

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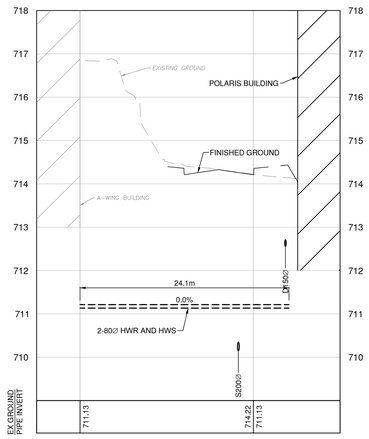

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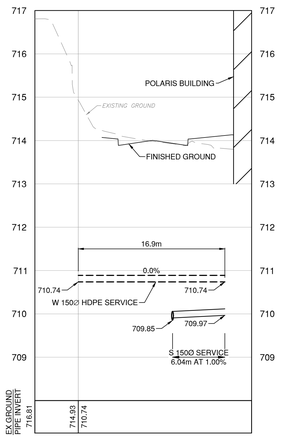
SCALE: H 1:250 V 1:50



3 C-102 SERVICE PROFILE
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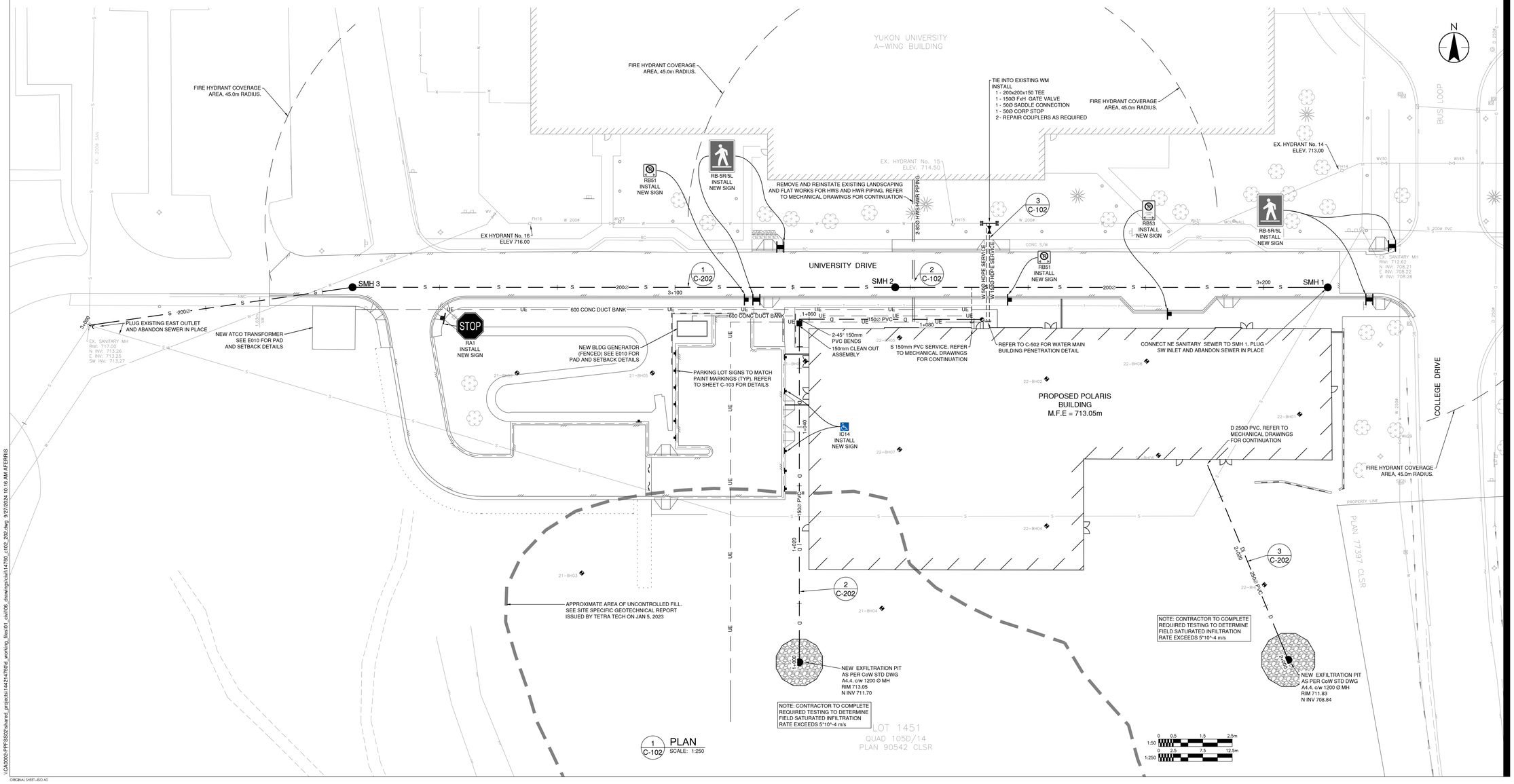

1 C-102 PLAN
SCALE: 1:250

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Legend

Notes

HORIZONTAL COORDINATE SYSTEM NOTE
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM, ZONE 7N, CM 141°00'00"W)
DATUM: NAD83(2002.0)

VERTICAL DATUM NOTE
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Revision	By	Appd.	YY.MM.DD
B REISSUED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c102_202.dwg	AF Dwn.	AC Chkd.	CA Dsgn. 2024/05/06 YY.MM.DD

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Client/Project

Yukon University

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500 University Drive
Whitehorse, YT

Title

UTILITIES PLAN AND SERVICE PROFILES

Project No.	Scale
1442114760	AS SHOWN

Drawing No.	Sheet	Revision
C-102	of	-

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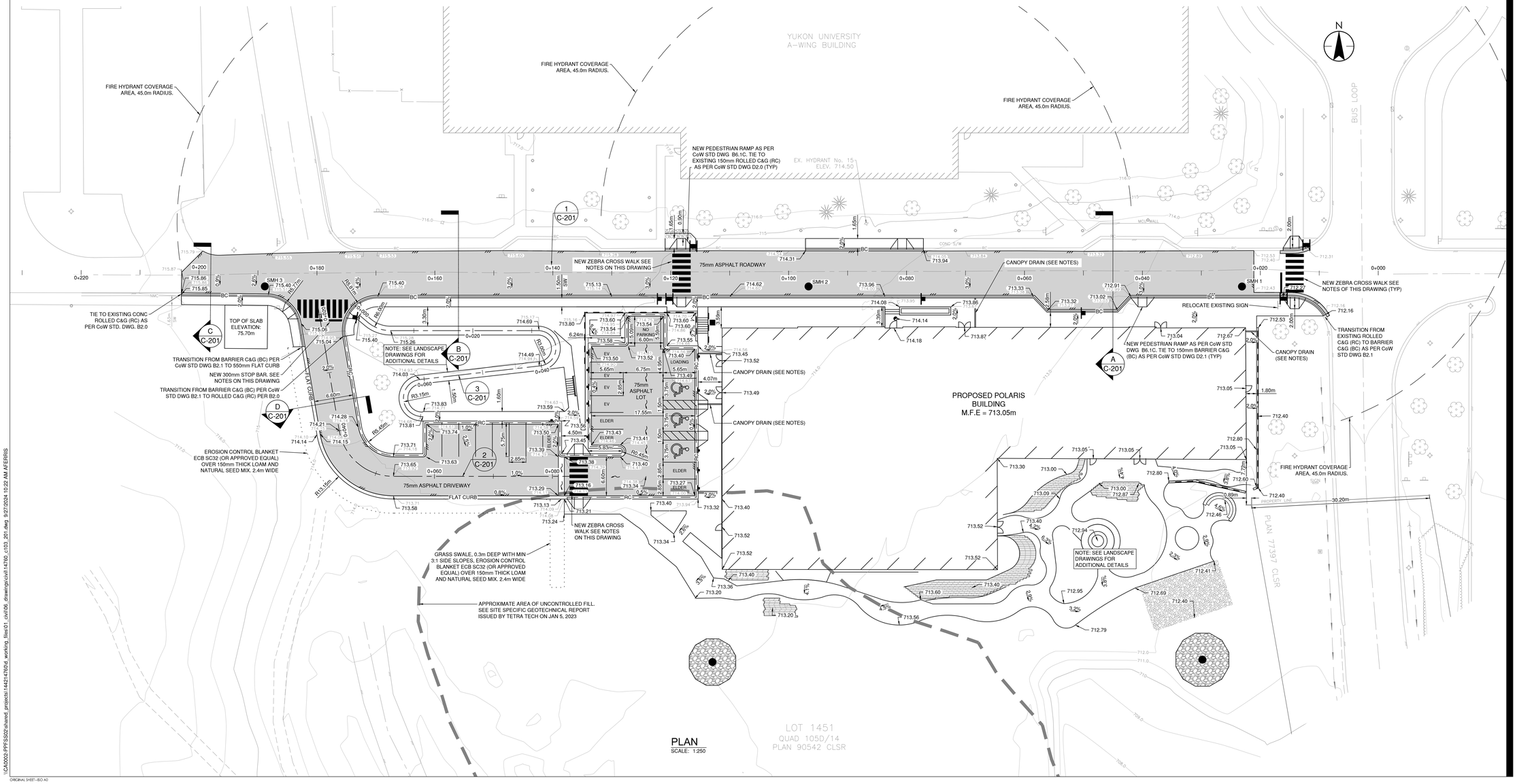

PLAN
SCALE: 1:250

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2. REFER TO SITE SPECIFIC GEOTECHNICAL REPORT ISSUED BY TETRA TECH ON JAN 5, 2023 FOR EXISTING CONDITIONS, BOREHOLE LOGS, SUBSURFACE INFORMATION, AND CONSTRUCTION REQUIREMENTS

SURFACE WORKS NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, DETOURING AND CONSTRUCTION SIGNAGE FOR TRAFFIC AND PEDESTRIANS.
2. ALL PEDESTRIAN MARKINGS TO BE WHITE 600mm IN WIDTH. SPACING BETWEEN CROSSWALK LINES TO BE 1200mm O/C UNLESS OTHERWISE NOTED.
3. ALL STOP BAR MARKINGS TO BE 300mm IN WIDTH. SPACING TO BE 1.00m BETWEEN STOP BAR EDGE OF LINE AND CROSSWALK EDGE OF LINE UNLESS NOTED.
4. ALL PARKING STALL LINES TO BE YELLOW 100mm IN WIDTH UNLESS OTHERWISE NOTED.
5. ALL SIGNS ARE TO HAVE BASES MOUNTED ON THE CONCRETE.
6. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ALL DISTURBED LANDSCAPING AREAS, DRIVEWAYS, CURB AND GUTTER AND SIDEWALKS DAMAGED INCIDENTALLY DURING CONSTRUCTION.
7. ALL CURB TO HAVE MINIMUM RADIUS OF 300mm
8. TRENCH DRAINS FROM CANOPIES SHALL BE VOQALAND 4" PLASTIC TRENCH DRAIN (BASE 100P), STAINLESS GRATE ADA COMPLIANT, B CLASS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. LOCATION SHOWN IS APPROXIMATE. CO-ORDINATE WITH DOWNSPOUT LOCATIONS, MATCH GRADE OF ADJACENT CONCRETE, OUTLET FIELD FIT BASED ON LOCATION UPON APPROVAL BY ENGINEER.

Revision	By	Appd.	YY.MM.DD
B REISSUED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c103_201.dwg	AF Dwn.	AC Chkd.	CA Dsgn.	2024/05/06 YY.MM.DD

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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

GRADING, SURFACE TREATMENT AND PAVEMENT MARKINGS

Project No. 1442114760

Scale 1:250 (0 2.5 7.5 12.5m)

Drawing No. C-103 | Sheet of | Revision -

\\CA0002-PFFS02\shared_projects\144214760\4_working_files\01_civil\06_drawings\civil\14760_c103_201.dwg 9/27/2024 10:22 AM AFERRIS

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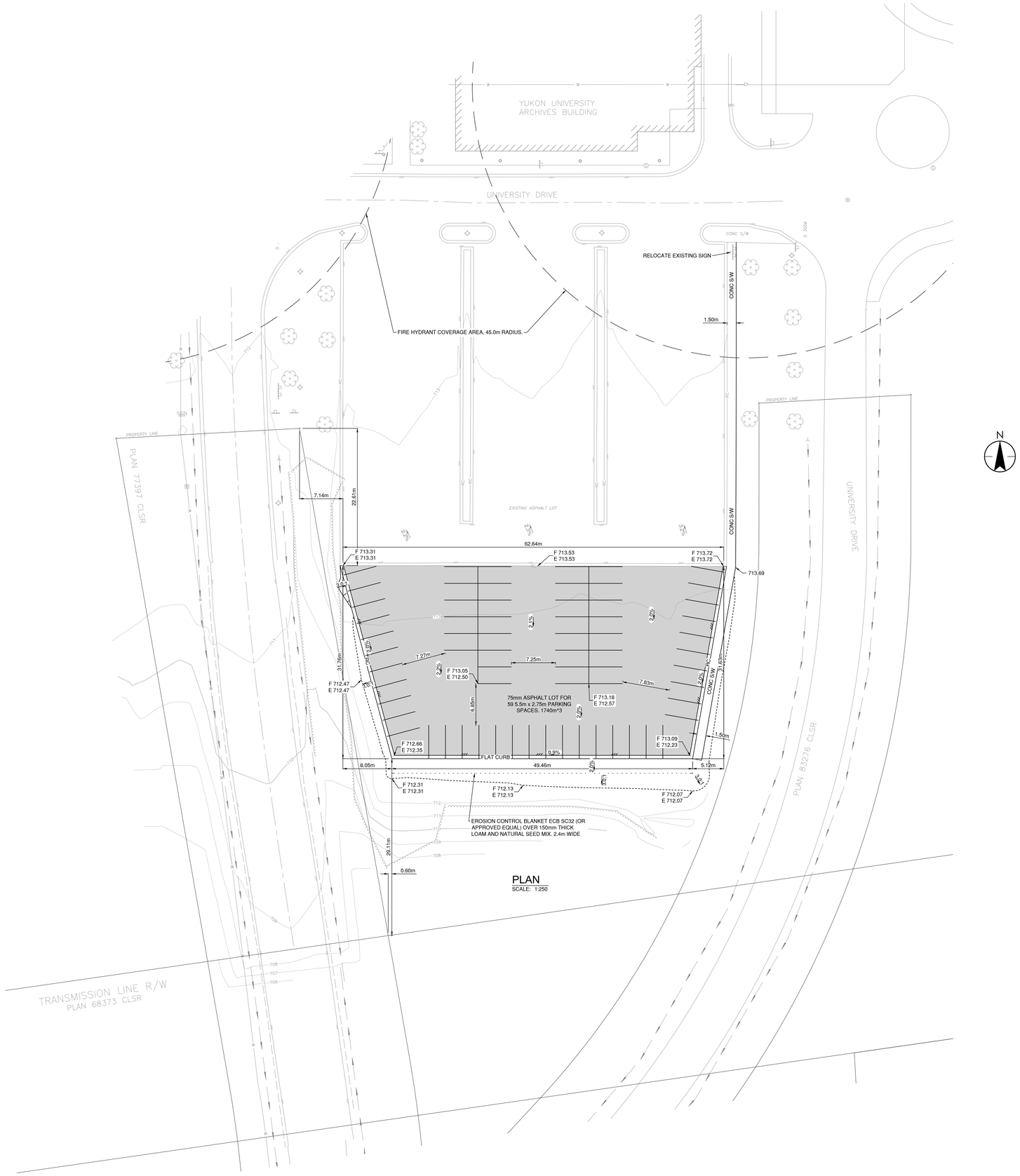

PLAN
SCALE: 1:250

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Revision	By	Appd.	YY.MM.DD
B REISSUED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c104.dwg	AF Dwn.	AC Chkd.	CA Dsgn.	2024/04/23 YY.MM.DD

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Title

GRAVEL PARKING LOT GRADING AND PAVEMENT MARKINGS

Project No. 1442114760

Scale 1:250 (0 2.5 7.5 12.5m)

Drawing No. C-104

Sheet of

Revision -

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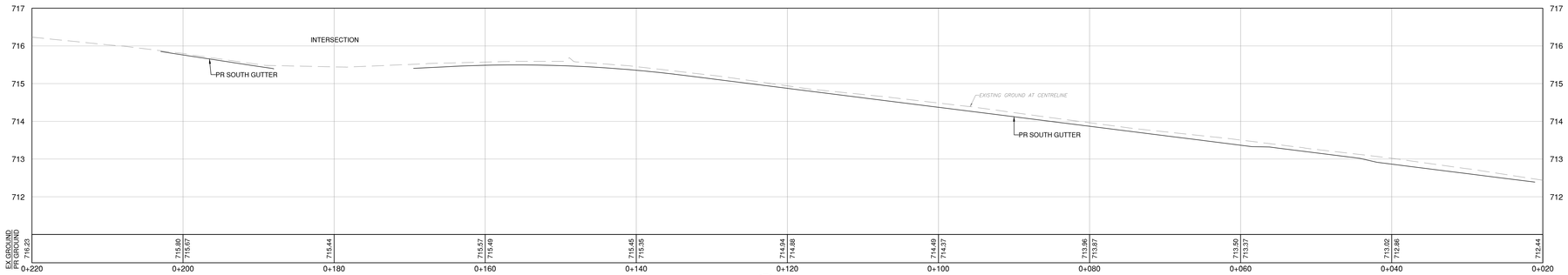

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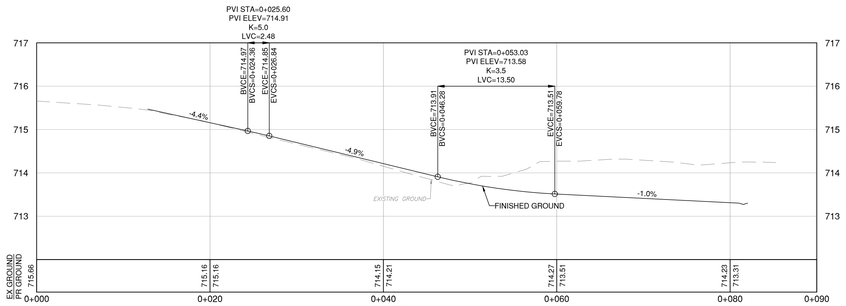

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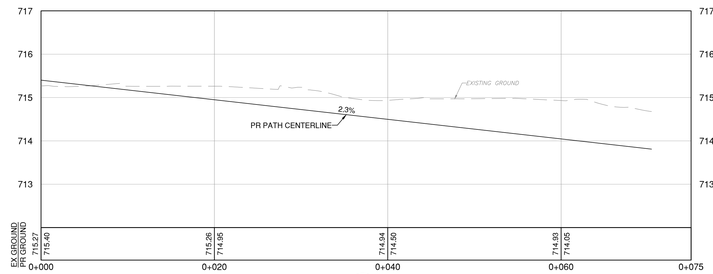

3 C-103 PROFILE
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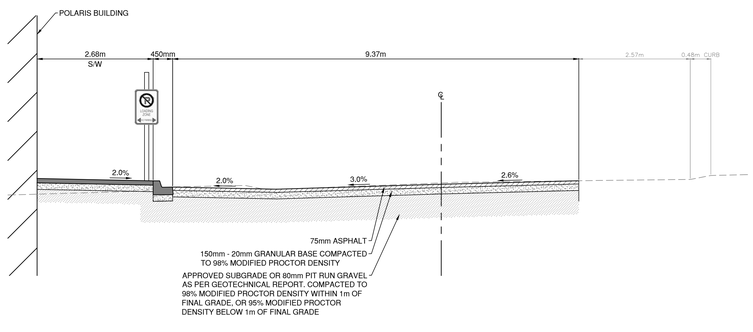

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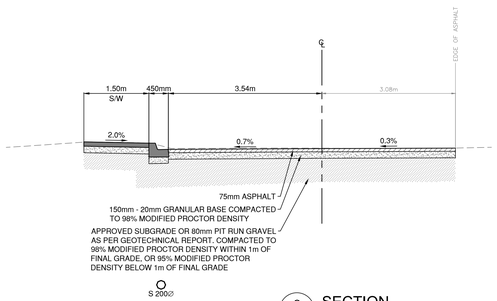
A C-103 SECTION
SCALE: 50



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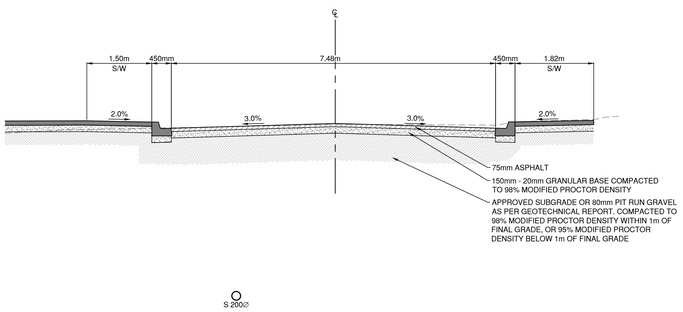

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B C-103 SECTION
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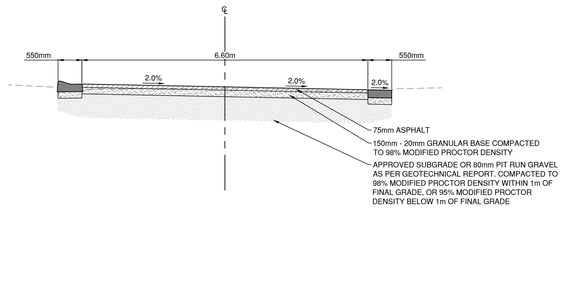

D C-103 SECTION
SCALE: 1:50

1:50 0 0.5 1.5 2.5m
1:250 0 2.5 7.5 12.5m

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Notes

HORIZONTAL COORDINATE SYSTEM NOTE
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (UTM, ZONE 7N, CM 141°00'00"W)
DATUM: NAD83(2002.0)

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Revision	By	Appd.	YY.MM.DD
B REISSUED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c103_201.dwg	AF	AC	CA	2024/05/06
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

GRADING PROFILES AND SECTIONS

Project No.	Scale	
1442114760	AS SHOWN	
Drawing No.	**Sheet**	**Revision**
C-201	of	-

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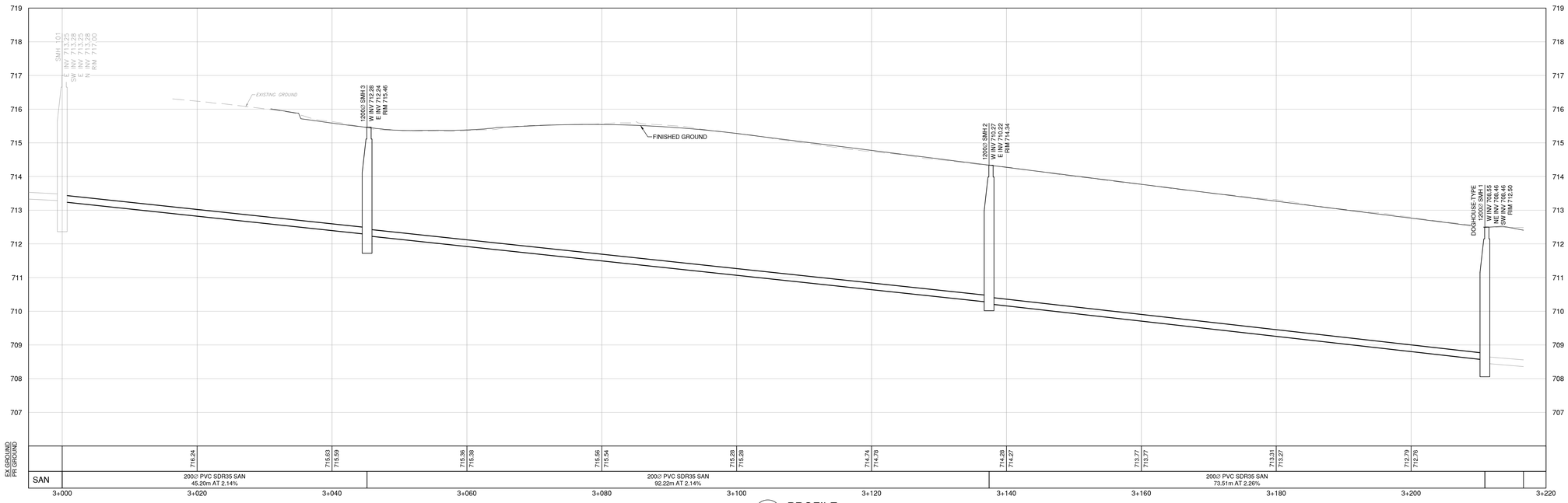
ORIGINAL SHEET - ISO A0



1 / C-102 PROFILE
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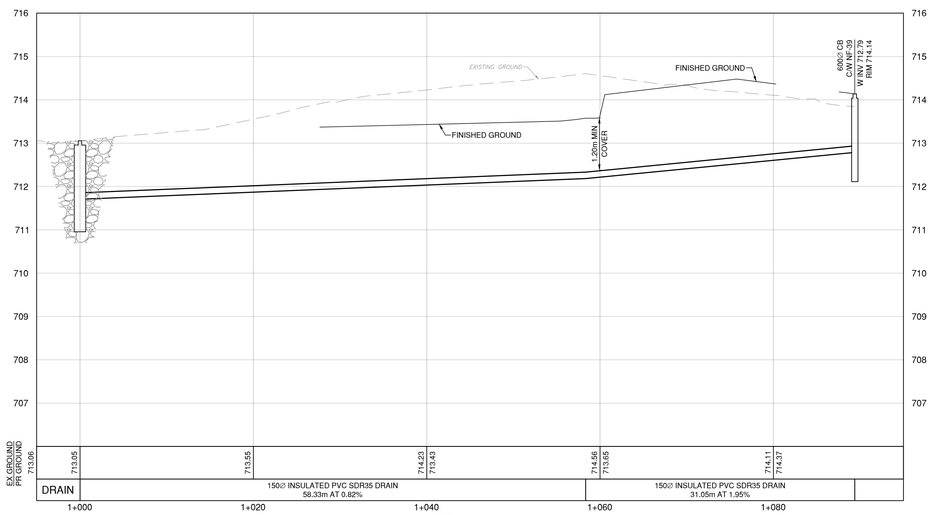

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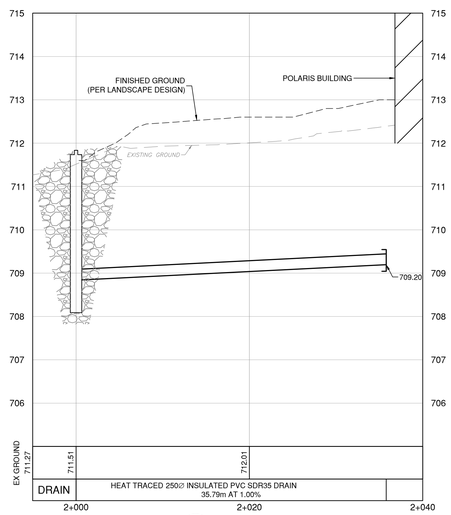

3 / C-102 PROFILE
SCALE: H 1:250 V 1:50

1:50 0 0.5 1.5 2.5m
1:250 0 2.5 7.5 12.5m

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Notes

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DATUM: NAD83(2002.0)

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		By	Appd.	YY.MM.DD
B	REISSUED FOR TENDER	CA	AC	24.09.27
A	FOR TENDER	CA	AC	24.05.06

Issued

	By	Appd.	YY.MM.DD
File Name: 14760_c102_202.dwg	AF	AC	CA	2024/05/06
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

UTILITY PROFILES

Project No. 1442114760

Scale AS SHOWN

Drawing No. C-202

Sheet of

Revision -

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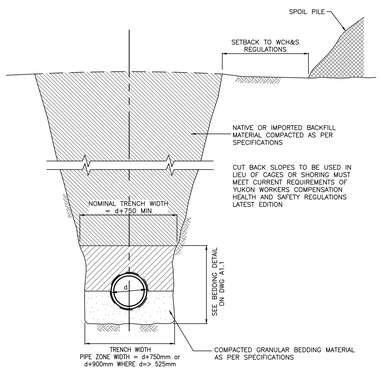
ORIGINAL SHEET - ISO A0

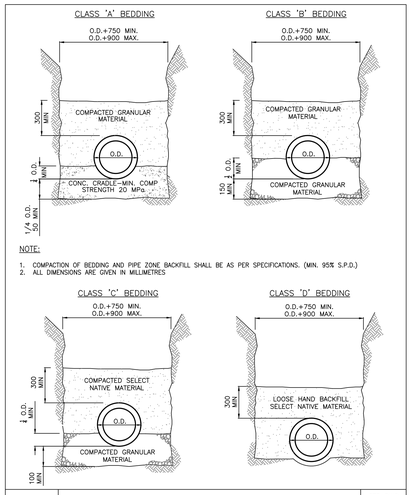


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. CONTRACTOR SHALL CONTACT YUKON WORKERS COMPENSATION HEALTH AND SAFETY BOARD TO DETERMINE CURRENT CUTBACK SLOPE REQUIREMENTS
3. d= PIPE OUTSIDE DIAMETER

Engineering Department	TRENCHING WIDTHS	STD DWG
	DATE: JANUARY 2007	A1.0

1 - TRENCH WIDTHS
SCALE: NTS

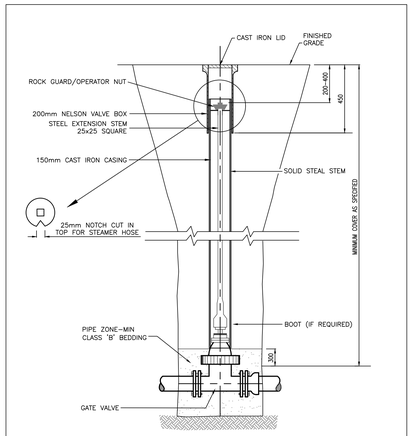


NOTE:

1. COMPACTION OF BEDDING AND PIPE ZONE BACKFILL SHALL BE AS PER SPECIFICATIONS. (MIN. 95% S.P.D.)
2. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES

Engineering Department	PIPE BEDDING DETAILS	STD DWG
	DATE: JANUARY 2007	A1.1

2 - PIPE BEDDING
SCALE: NTS

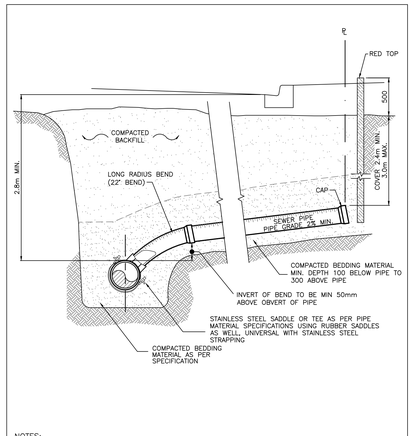


NOTES:

1. ALL DIMENSIONS GIVEN IN MILLIMETRES
2. VALVE TO BE ADEQUATELY PROTECTED AGAINST LATERAL MOVEMENT

Engineering Department	STANDARD VALVE INSTALLATION DETAIL	STD DWG
	DATE: JANUARY 2015	A2.1

3 - WATER VALVE
SCALE: NTS

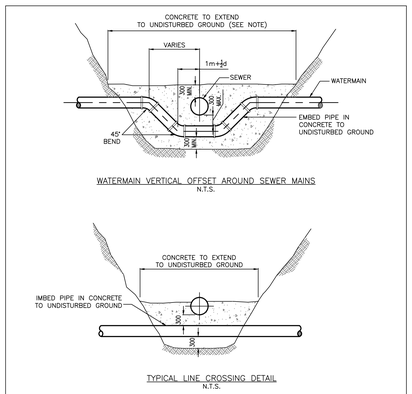


NOTES:

1. COMPACTION REQUIREMENTS AS PER SPECIFICATIONS
2. ALL DIMENSIONS GIVEN IN MILLIMETRES
3. 50x100 MARKER TO EXTEND TO INVERT OF SERVICE
4. DEPTH OF COVER TO BE CONFIRMED BY THERMAL ANALYSIS

Engineering Department	SANITARY SEWER SERVICE (UNINSULTATED)	STD DWG
	DATE: JANUARY 2007	A6.1

4 - SANITARY SERVICE
SCALE: NTS

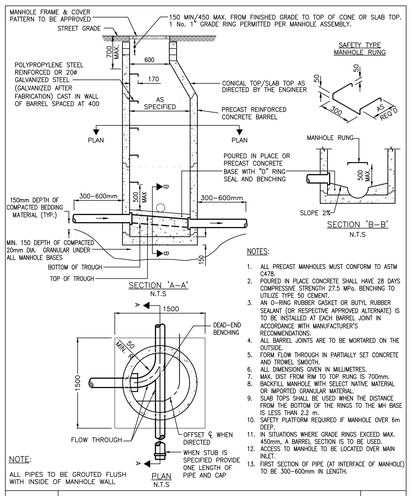


NOTES:

1. MINIMUM WIDTH OF CONCRETE TO BE DIAMETER OF LARGEST PIPE + 300
2. ALL DIMENSIONS ARE IN MILLIMETRES
3. d = PIPE DIAMETER
4. ALL CONCRETE TO BE 20 MPa @ 28 DAYS.
5. SHOULD THE SEPARATION BETWEEN PIPES BE GREATER THAN 300, PIPE BEDDING COMPACTED TO 98% S.P.D. WILL BE REQUIRED.
6. RESTRAINT JOINTS TO BE USED TO TIE THE BENDS TOGETHER PRIOR TO POURING CONCRETE.

Engineering Department	TYPICAL WATER & SEWER LINE CROSSING DETAILS	STD DWG
	DATE: JANUARY 2007	A2.3

5 - PIPE CROSSING
SCALE: NTS



NOTES:

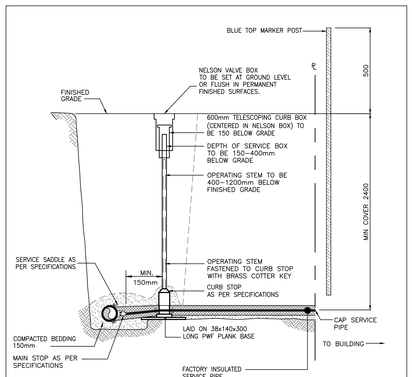
1. ALL PRECAST MANHOLES MUST CONFORM TO ASTM C478.
2. POURED IN PLACE CONCRETE SHALL HAVE 28 DAYS COMPRESSIVE STRENGTH 27.5 MPa. BENCHING TO UTILIZE TYPE 50 CEMENT.
3. AN O-RING RUBBER GASKET OR BUTYL RUBBER SEALANT (OR RESPECTIVE APPROVED ALTERNATE) IS TO BE INSTALLED AT EACH BARREL JOINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. ALL BARREL JOINTS ARE TO BE MORTARED ON THE OUTSIDE.
5. FORM FLOW THROUGH IN PARTIALLY SET CONCRETE AND TROWEL SMOOTH.
6. ALL DIMENSIONS GIVEN IN MILLIMETRES.
7. MAX. DIST FROM RIM TO TOP RUNG IS 700mm.
8. BACKFILL MANHOLE WITH SELECT NATIVE MATERIAL OR IMPORTED GRANULAR MATERIAL.
9. SLAB TOPS SHALL BE USED WHEN THE DISTANCE FROM THE BOTTOM OF THE RINGS TO THE MH BASE IS LESS THAN 2.2 m
10. SAFETY PLATFORM REQUIRED IF MANHOLE OVER 6m DEEP.
11. IN SITUATIONS WHERE GRADE RINGS EXCEED MAX. 450mm, A BARREL SECTION IS TO BE USED.
12. ACCESS TO MANHOLE TO BE LOCATED OVER MAIN INLET.
13. FIRST SECTION OF PIPE (AT INTERFACE OF MANHOLE) TO BE 300-600mm IN LENGTH.

NOTE:

ALL PIPES TO BE GROUTED FLUSH WITH INSIDE OF MANHOLE WALL

Engineering Department	TYPICAL MANHOLE DETAIL	STD DWG
	DATE: OCTOBER, 2020	A4.0

6 - MANHOLE
SCALE: NTS

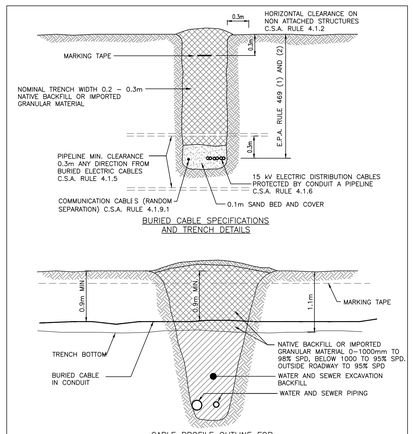


NOTES:

1. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
2. INSULATION THICKNESS (50mm MIN) AND DEPTH OF COVER TO BE VERIFIED BY THERMAL ANALYSIS.
3. 50x100 MARKER POST TO EXTEND TO INVERT OF PIPE.
4. COMPACTION REQUIREMENTS ARE AS PER DETAILED SPECIFICATIONS
5. INSTALL CC'S AT MAIN. WHERE CC'S FALL UNDER ROADWAYS INSTALL NELSON TYPE VALVE BOX OVER CC STEM FOR ADDITIONAL PROTECTION.
6. COUPLINGS ARE NOT PERMITTED TO BE LOCATED IN THE ROADWAY.
7. CURB BOX TO NOT BE TIGHTENED AT FINAL INSTALL AND TO BE MAINTAINED AT GRADE WITH COMPACTED BACKFILL.
8. FIELD MODIFICATIONS ARE NOT PERMITTED ON OPERATING STEMS.
9. OPERATING STEM SIZE TO BE 13mm (½") FOR SERVICES UP TO 25mm (1") DIAMETER.
10. OPERATING STEM SIZE TO BE 16mm (⅝") FOR SERVICES LARGER THAN 25mm (1") DIAMETER.

Engineering Department	WATER SERVICE CONNECTION IN ASPHALT ROADWAYS	STD DWG
	DATE: OCTOBER, 2021	A6.0a

7 - WATER SERVICE
SCALE: NTS



NOTES:

1. ADOPTED FROM ATCO STANDARD DETAIL.
2. PIPE CROSSING UNDER ATCO DUCTS REQUIRE ONE WEEK NOTICE TO ATCO. WORK TO BE DONE UNDER ATCO DIRECTION

Engineering Department	UNDERGROUND SERVICE CROSSING OF CABLE TRENCH DETAILS	STD DWG
	DATE: JANUARY 2007	A7.0

8 - SERVICE CROSSINGS
SCALE: NTS

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Tel: (867) 920-2882
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Notes

Revision	By	Appd.	YY.MM.DD
B REVISED FOR TENDER	CA	AC	24.09.27
A FOR TENDER	CA	AC	24.05.06

Issued	By	Appd.	YY.MM.DD
File Name: 14760_c501_502.dwg	AF	AC	CA 2024/02/12
	Dwn.	Chkd.	Dsgn. YY.MM.DD

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Client/Project

Yukon University
POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

DETAILS

Project No. 1442114760

Scale NOT TO SCALE

Drawing No. C-501

Sheet of

Revision -

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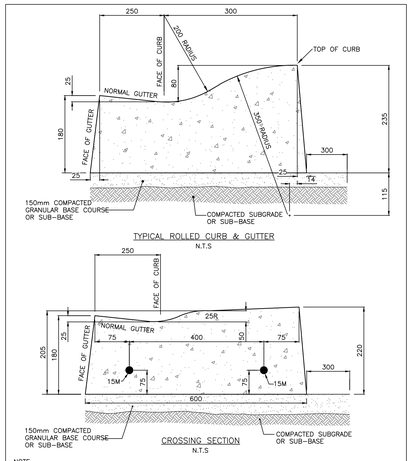
ORIGINAL SHEET - ISO A0



NOTE
1. ALL DIMENSIONS ARE IN MILLIMETRES
2. REINFORCEMENT NOT REQUIRED AT PRIVATE CROSSING

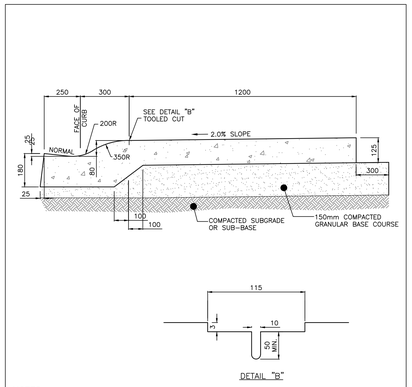
Engineering Department

ROLLED CURB, GUTTER & CROSSING DETAILS
COMMERCIAL, LANE & PRIVATE

STD DWG B2.0

DATE: JANUARY 2015

1 - ROLLED C&G AND CROSSING
SCALE: NTS



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR REVERSE GUTTER ON MONO SEE B1.0, B1.1, B1.2.
3. SHOULD A MONOLITHIC POUR NOT BE POSSIBLE 300 mm, 10M REINFORCING BARS SHALL BE INSERTED INTO THE BACK OF THE CURB AND GUTTER AT 750 mm CENTRE TO CENTRE SPACING STARTING AT 375 mm FROM A CONSTRUCTION JOINT.
4. FOR AREAS OF TRANSITION BETWEEN ROLLED CURB AND BARRIER CURB THE 100mm DIFFERENCE IN WIDTH SHALL BE BLENDED GRADUALLY OVER THE LENGHT OF A PANEL.

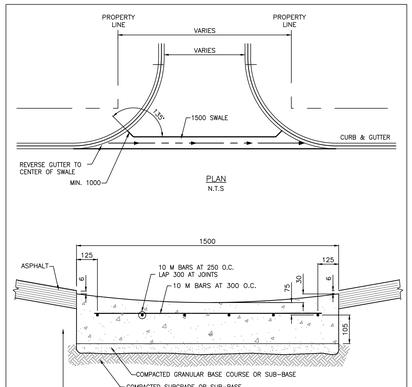
Engineering Department

MONOLITHIC CURB, GUTTER & SIDEWALK
ROLLED CURB

STD DWG B3.0

DATE: JANUARY 2015

2 - MONOLITHIC ROLLED C&G SIDEWALK
SCALE: NTS



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES
2. CONTRACTION JOINTS SPACED AT 3m INTERVAL

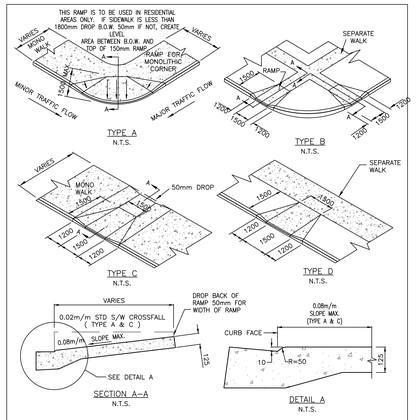
Engineering Department

1500mm CONCRETE SWALE
PLAN & SECTION

STD DWG B5.0

DATE: JANUARY 2007

3 - CONCRETE SWALE
SCALE: NTS



NOTES:
1. WHERE RAMP IS TO BE USED AS A TRANSITION USE CENTRE OF RAMP AS THE CENTRE OF THE TRANSITION.
2. WHERE RAMP IS ENTIRE DEPTH OF THE SIDEWALK, DROP THE BACK OF RAMP 50mm TO REDUCE RAMP GRADE. 3. WHERE CURB FACE IS 200mm. DISTANCE OF FLARE SHOULD BE 1600mm.
3. CURBS AND RAMPS TO BE POURED MONOLITHICALLY.
4. CONSTRUCTION JOINT REQUIRED AT EACH SIDE OF RAMP.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

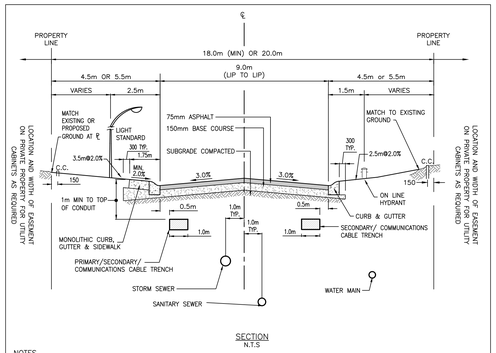
Engineering Department

WHEELCHAIR/BIKE RAMP DETAILS

STD DWG B6.1

DATE: OCTOBER 2020

4 - WHEELCHAIR RAMP
SCALE: NTS



NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. MINIMUM ROAD STRUCTURE INDICATED – ROADWAY TO BE DESIGNED BASED ON SITE SPECIFIC SOIL CONDITIONS AND TRAFFIC LOADINGS.
3. RTAC CLASSIFICATION ULU-50.
4. EASEMENTS REQUIRED FOR POWER POLE ANCHORS.

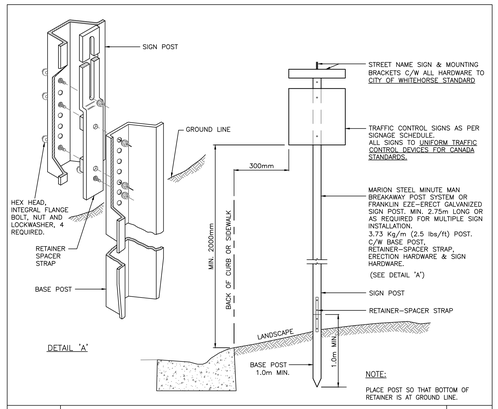
Engineering Department

9.0m URBAN
LOCAL STREET SECTION
WITH MONO SIDEWALK

STD DWG C1.0

DATE: JANUARY, 2020

5 - LOCAL STREET SECTION
SCALE: NTS



NOTE:
PLACE POST SO THAT BOTTOM OF RETAINER IS AT GROUND LINE.

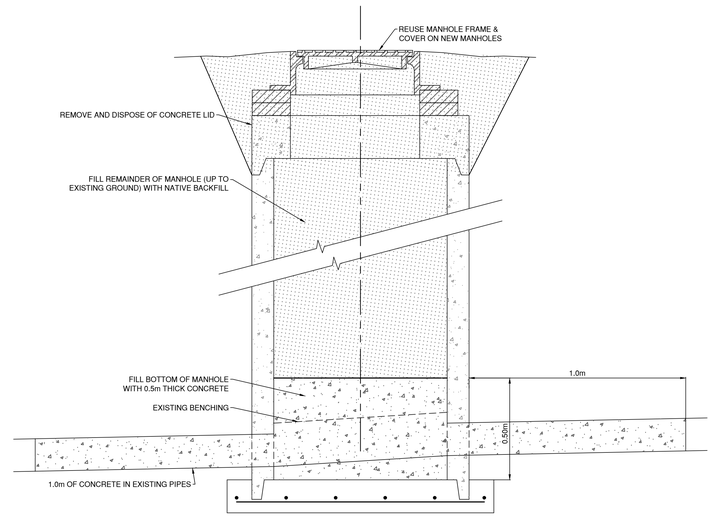
Engineering Department

TYPICAL SIGN INSTALLATION
AND BREAK AWAY DETAIL

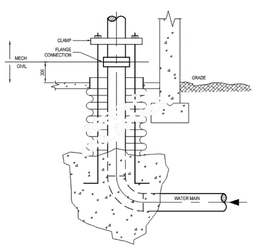
STD DWG E2.1

DATE: JANUARY 2007

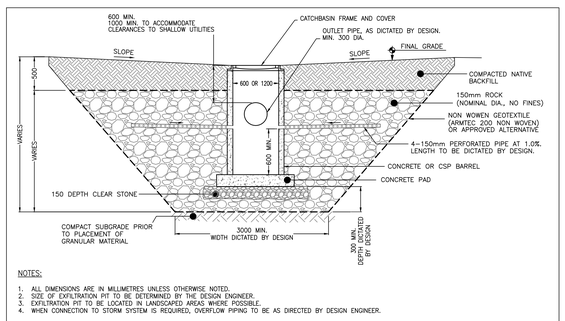
6 - SIGN INSTALLATION
SCALE: NTS



7 - TYPICAL ABANDONED MANHOLE DETAIL
SCALE: NTS



8 - UNDERGROUND WATER SERVICE ENTRY
SCALE: NTS



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. SIZE OF EXFILTRATION PIT TO BE DETERMINED BY THE DESIGN ENGINEER.
3. EXFILTRATION PIT TO BE LOCATED IN LANDSCAPED AREAS WHERE POSSIBLE.
4. WHEN CONNECTION TO STORM SYSTEM IS REQUIRED, OVERFLOW PIPING TO BE AS DIRECTED BY DESIGN ENGINEER.

Engineering Department

EXFILTRATION PIT

STD DWG A4.4

DATE: JANUARY 2020

9 - EXFILTRATION PIT
SCALE: NTS

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Revision	By	Appd.	YY.MM.DD
B REISSUED FOR TENDER	CA	AC	24.09.27
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Client/Project

Yukon University

POLARIS PROJECT
500 University Drive
Whitehorse, YT

Title

DETAILS

Project No.	Scale
1442114760	NOT TO SCALE

Drawing No.	Sheet	Revision
C-502	of	-

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ORIGINAL SHEET - ISO A0

COMMON ABBREVIATIONS

ABBRV.	DEFINITION	ABBRV.	DEFINITION
@	AT	mm	MILLIMETRE
ADDTL	ADDITIONAL	mm²	SQUARE MILLIMETRE
AVG	AVERAGE	MAX	MAXIMUM
BOF	BOTTOM OF FEATURE	MFG	MANUFACTURED / MANUFACTURING
BOS	BOTTOM OF STAIR	MIN	MINIMUM
BOW	BOTTOM OF WALL (@ FINISHED GRADE)	NTS	NOT TO SCALE
BUP	BACKFLOW PREVENTION UNIT	NWL	NORMAL WATER LEVEL
CAL	CALIPER	OC	ON CENTRE
CALCS	CALCULATIONS	PL	PROPERTY LINE
CB	CATCH BASIN	POC	POINT OF CONNECTION
CCC	CONSTRUCTION COMPLETION CERTIFICATE	PUE	PUBLIC UTILITY EASEMENT
CIP	CAST IN PLACE	PSI	POUNDS PER SQUARE INCH
CL	CENTRE LINE	R, RAD	RADIUS
CLR	CLEAR	RAP	RESTRICTED ACTIVITY PERIOD
cm	CENTIMETRE	R/W	RIGHT OF WAY (R.O.W.)
CMU	CONCRETE MASONRY UNIT	SF	SQUARE FEET
CNTA	CANADIAN NURSERY TRADES ASSOCIATION	SG	SUBGRADE
CONC	CONCRETE	SGP	SUBGRADE PLAYSURFACE
CONT	CONTINUOUS	SM	SQUARE METRES
CP	CENTRE POINT	SPD	STANDARD PROCTOR DENSITY
CPTED	CRIME PREVENTION THOUGH ENVIRONMENTAL DESIGN	SSS	SOLID STRUCTURAL STEEL
DIA	DIAMETER	STD	STANDARD
EA	EACH	SVT	SIGHT VIEW TRIANGLE
EIA	ENVIRONMENTAL IMPACT ASSESSMENT	S/W	SIDEWALK(S)
ELEC	ELECTRICAL	TBD	TO BE DETERMINED
ELEV	ELEVATION (EL)	TBS	TO BE SELECTED
EQ	EQUAL(S)	TOE	TOP OF EDGER
EX	EXISTING	TOF	TOP OF FEATURE
FAB	FABRICATION/FABRICATOR	TOP	TOP OF PILE
FAC	FINAL ACCEPTANCE CERTIFICATE	TOS	TOP OF STAIR
FF	FINISH FLOOR	TOW	TOP OF WALL
FG	FINISH GRADE	TPZ	TREE PROTECTION ZONE
FGP	FINISH GRADE PLAYGROUND	TYP	TYPICAL
FL	FLOW LINE	UNO	UNLESS NOTED OTHERWISE
FT	FEET	URW	UTILITY RIGHT OF WAY
GAL	GALLON	VERT	VERTICAL
GPH	GALLONS PER HOUR	WD	WIDTH
GPM	GALLONS PER MINUTE	W/	WITH
HORIZ	HORIZONTAL	XWL	MAXIMUM HIGH WATER LEVEL
HP	HIGH POINT		
HSS	HOLLOW STRUCTURAL STEEL		
HT	HEIGHT		
HWL	HIGH WATER LEVEL		
INFO	INFORMATION		
ISA	INTERNATIONAL SOCIETY OF ARBORICULTURE		
LA	LANDSCAPE ARCHITECT/OWNER'S AUTHORIZED REPRESENTATIVE		
LG	LENGTH		
LF	LINEAR FEET		
lm	LINEAR METRES		
LP	LOW POINT		
L/S	LANDSCAPE/LANDSCAPING		
NIC	NOT IN CONTRACT		
m	METRE		
m²	SQUARE METRES		
m³	CUBIC METRES		

HOW TO REFERENCE PLAN NOTATIONS

ITEMS	CALLOUTS	ITEM DESCRIPTION
SHEET NOTE	2	NOTE ID REFERENCE
MATERIAL/AMENITY	2	ID REFERENCE OF ELEMENT
DETAIL REFERENCE	2 / L502	DETAIL NUMBER ON IDENTIFIED SHEET; IDENTIFIED SHEET NUMBER WHERE DETAIL IS FOUND
CROSS SECTION LINE	5 / L502	SECTION/ELEVATION NUMBER ON IDENTIFIED SHEET; DIRECTION OF CROSS SECTION LINE CUT; IDENTIFIED SHEET NUMBER WHERE DETAIL IS FOUND
DETAIL TITLE	2 TRAIL SCALE: 1:50	DETAIL NUMBER; TITLE OF DETAIL; DETAIL SCALE
ELEVATION REFERENCE	11 / L304	DIRECTION OF ELEVATION; DETAIL NUMBER; SHEET NUMBER

LANDSCAPE SHEET SET INDEX

L001 - NOTES & MATERIAL SCHEDULES, TREE PROTECTION AND CONTEXT PLAN
L100 - LAYOUT PLAN
L101 - HARDSCAPE PLAN
L102 - SITE FURNISHINGS PLAN
L103 - CONCRETE SAW CUT PLAN
L200 - PLANTING PLAN
L201 - PLANTING PLAN ENLARGEMENTS
L202 - PLANTING PLAN ENLARGEMENTS
L203 - PLANTING PLAN ENLARGEMENTS
L300 - GRADING PLAN
L301 - GRADING PLAN ENLARGEMENTS
L302 - GRADING PLAN ENLARGEMENTS
L400 - DETAILS
L401 - DETAILS
L403 - DETAILS

GROUNDCOVER SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
GC-01	MULCH	751.2 m²	12/L400

HARDSCAPING SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
HS-01	BROOM FINISH CONCRETE NOTE: CONCRETE IN SOUTH LANDSCAPE AREA TO INCLUDE 25% CUSTOM SAND BLAST PATTERNS (161 SQM.)	1,591 m²	2/C-502
HS-02	TACTILE WARNING INDICATOR INDIVIDUAL TILES TO MEASURE APPROXIMATELY 1400MM X 400MM IN SIZE, AND BE YELLOW IN COLOUR	2.2 m²	17/L401
HS-03	GLASS SEEDING IN SHADES OF BLUE	16.8 m²	2/L400
HS-04	300MM WIDE CONCRETE SEAT WALL HEIGHT VARIES REFER TO GRADING PLAN	67.8 m	9/L400
HS-05	BARKMAN BRIDGEWOOD SLAB CEDAR BROWN 890 X 250 X 51MM	m²	7/L400
HS-06	25MM DIA. WASHED GRAVEL 100MM DEPTH	112.2 m²	11/L400
HS-07	10MM WASHED AGGREGATE TO BE CONTRASTING COLOUR FROM BROOM FINISH CONCRETE BINDED WITH ROMPOX PROFI-DEKO	352.7 m²	14/L400
HS-08	STEPPING STONE PATH THROUGH PLANT BED	20.1 m	N/A
HS-09	POWDER COATED STEEL WALL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	83.2 m	18/L401
HS-10	RETAINING WALL HEIGHT VARIES, REFER TO GRADING PLAN	42.7 m	
HS-11	TUBE RAIL GUARDS ADJACENT DOWNHILL SIDE OF PATH CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	82.8 m	
HS-12	DECORATIVE WALL GUARD ON RETAINING WALL - TBD	28.4 m	
HS-13	STAIR HAND RAIL	43.2 m	16/L400

SYMBOL	DESCRIPTION	QTY	DETAIL
HS-14	STACKED FLAT ROCK TO CREATE LEVEL PLANTING PIT FOR TREES SIZE RANGE: 0.5M -1.5M DIA.	71	25/L401

SITE FURNISHINGS SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
SF-01	MAGLIN MBR-0350-0002 BIKE RACK 300 SERIES - 350 BIKE RACK IN GUNMETAL GLOSS 605MM HEIGHT, 1226MM LENGTH, 625MM DIAMETER H.S. STEEL TUBE, FORMED STEEL AND SOLID STEEL ANGLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) REFER TO SUPPLIER SPECIFICATIONS	6	4/L400
SF-02	MAGLIN OGM1900-SS6 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS 457MM HEIGHT, 1822MM LENGTH, 457MM MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH REFER TO SUPPLIER SPECIFICATIONS	8	4/L400
SF-03	MAGLIN OGM1900-B1-SS4 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKED 457MM HEIGHT, 1213MM LENGTH, 457MM DEPTH WALL MOUNT REFER TO SUPPLIER SPECIFICATIONS	2	9/L400
SF-04	MAGLIN 2200 PIXEL TALL BLOCK THERMALLY MODIFIED ASH WOOD TOP, BACKLESS, STYLE 1 SQAURE PROFILE BLOCK IN GUNMETAL GLOSS 457MM HEIGHT, 610MM WIDTH REFER TO SUPPLIER SPECIFICATIONS	19	N/A
SF-05	4 SEAT PICNIC TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00011 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (4) POWDER COATED IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 4 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	5	4/L400
SF-06	3 SEAT TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00014 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (3) POWDER COATED IN GUNMETAL GLOSS WHEELCHAIR ACCESSIBLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 3 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	3	4/L400
SF-07	ROSETTA BELVEDERE FIRE PIT FROM BARKMAN; COLOUR: FON DU LAC, CONTRACTOR TO REQUIRE TWO PACKAGES TO MEET DESIGN SPECIFICATIONS, MOUNTED WITH CONSTRUCTION ADHESIVE HEAT RESISTANT GLUE FOR MORE INFORMATION BARKMANCONCRETE.COM	1	N/A
SF-08	MAGLIN OGM1900-SCR4 45 DEGREE CURVED BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT), BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH 457MM HEIGHT, 1316MM WIDTH, 45 DEGREE	6	4/L400
SF-09	POTENTIAL COVERED BIKE STORAGE ZONE	1	N/A
SF-10	FAVA CLUSTER SEATING TABLE MAGLIN FAVA-2D FRAME: GUNMETAL GLOSS SURFACE: THERMALLY MODIFIED ASH 790MM H. 1016MM DIA. TABLE TOP. 2 DOUBLE SEATS. SURFACE MOUNTED REFER TO SUPPLIER SPECIFICATIONS	2	4/L400
SF-11	STRAIGHT BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND MOUNTING ON STEEL WALL FOR APPROVAL	2	N/A
SF-12	9DEGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	1	N/A
SF-13	3DEGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	2	16/L400
SF-14	SITE SIGNAGE (TBD) CAMPUS DIRECTIONAL SIGN ON CONCRETE BASE	2	N/A

SITE STRUCTURES SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
SS-01	POTENTIAL LOCATION FOR WOOD SHED	1	N/A
SS-02	TIERED CONCRETE SEATING WITH WOOD BENCH TOPS SURFACE: THERMALLY MODIFIED ASH	1	3/L400

PLANT SCHEDULE

TREES

CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
Bp	14	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
Le	14	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
Pg	14	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.	22/L401
Pb	11	PICEA MARIANA / BLACK SPRUCE	2.0M HT.	22/L401
Pb2	2	PINUS ARISTATA / BRISTLECONE PINE	2.0M HT.	22/L401
Pl	17	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.	22/L401
Pt2	5	POPULUS TREMULOIDES / TREMBLING ASPEN	#5 POT	23/L401
Pt	12	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.	23/L401

SHRUBS

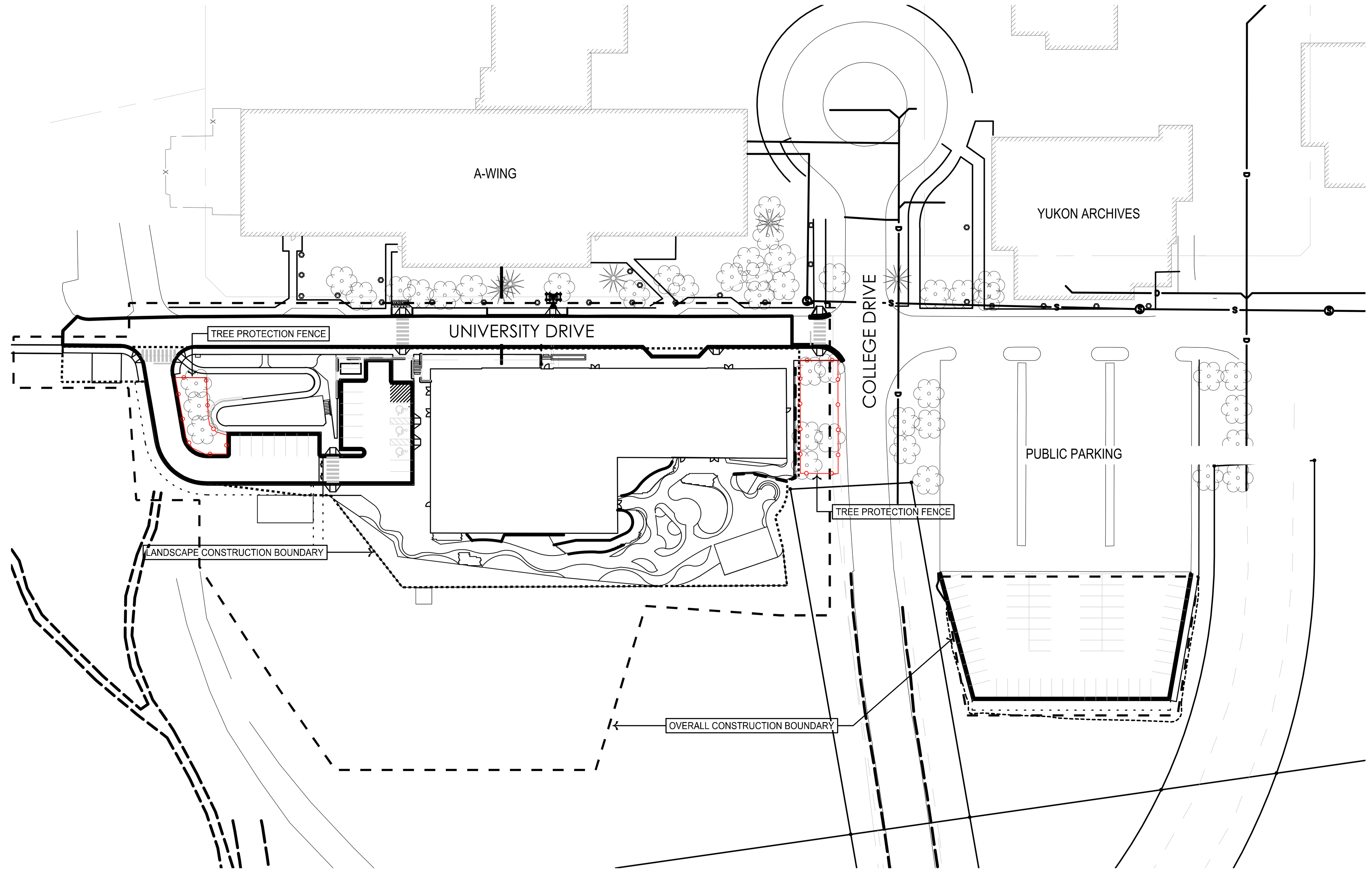
CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
Am	74	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
Ai	14	ALNUS INCANA / GRAY ALDER	#1 (1 GAL.)	900MM O.C.	26/L401
Aa	10	ALNUS TENUIFOLIA / MOUNTAIN ALDER	#1GAL.	900MM O.C.	26/L401
Al2	88	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
Cr	48	CORNUS SERICEA / RED TWIG DOGWOOD	#1 (1 GAL.)	1200MM O.C.	26/L401
Cb	27	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 (2 GAL.)	1200MM O.C.	26/L401
Jj	33	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 (1 GAL.)	1500MM O.C.	26/L401
Jb	37	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 (1 GAL.)	1000MM O.C.	26/L401
Pp2	58	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 (1 GAL.)	900MM O.C.	26/L401
Sl	38	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401
Sl2	54	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401
Sy	19	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 (1 GAL.)	900MM O.C.	26/L401

GROUND COVERS

CODE	QTY	BOTANICAL / COMMON NAME	CONT	DETAIL
Aa2	15.9 m²	ACORUS AMERICANUS / SWEET FLAG	PLUG	27/L401
Ss	659.3 m²	KENTUCKY BLUEGRASS / SOD	SOD	27/L401
Sr	329.3 m²	NATURALIZED SEED MIX / SEED NO MOW SEED TO BE CLASS 3 MIX AS PER CITY OF WHITEHORSE SERVICING STANDARDS MANUAL	SEED	

FENCING SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
FN-01	TREE PROTECTION FENCE	131.5 m	1/L400



A CONTEXT AND TREE PROTECTION FENCING PLAN
SCALE: 1:700

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Client/Project Logo

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Keyplans

Notes

		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
NOTES AND MATERIAL SCHEDULES TREE PROTECTION AND CONTEXT PLAN

Project No. 144214760
Scale
Revision
Drawing No. **L001**

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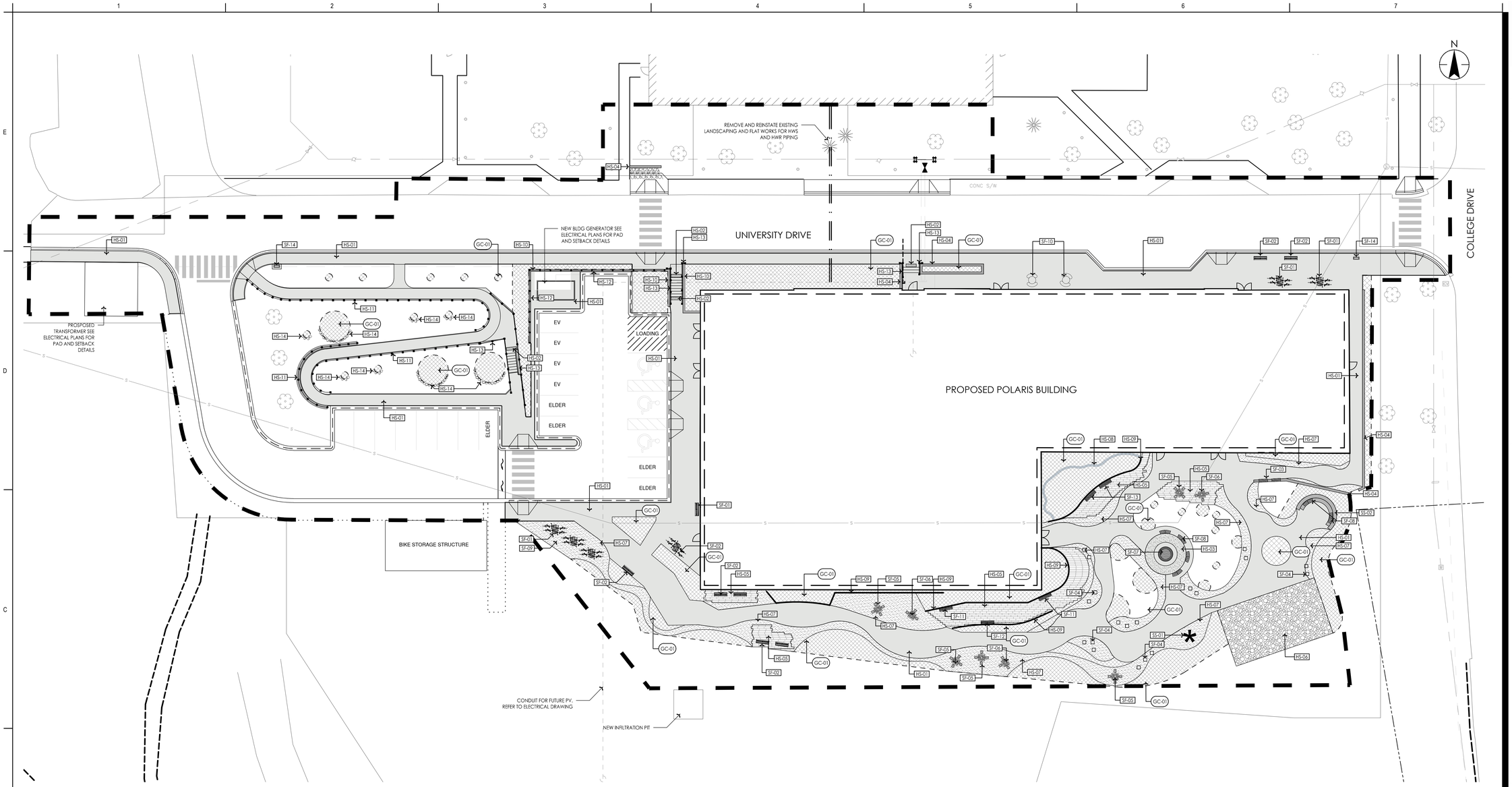

LEGEND

- LEGAL LOT LINE
- LANDSCAPE CONSTRUCTION BOUNDARY
- SANITARY SERVICE
- WATER SERVICE
- HWR AND HWS
- DRAIN DITCH
- ELECTRICAL LINE
- CONDUIT FOR FUTURE PV

GROUNDCOVER SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
GC-01	MULCH	751.2 m²	12/L400

SITE STRUCTURES SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
SS-01	POTENTIAL LOCATION FOR WOOD SHED	1	N/A
SS-02	TIERED CONCRETE SEATING WITH WOOD BENCH TOPS SURFACE: THERMALLY MODIFIED ASH	1	3/L400

HARDSCAPING SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
HS-01	BROOM FINISH CONCRETE NOTE: CONCRETE IN SOUTH LANDSCAPE AREA TO INCLUDE 25% CUSTOM SAND BLAST PATERNS (161 SQM.)	1,591 m²	2/C-502
HS-02	TACTILE WARNING INDICATOR INDIVIDUAL TILES TO MEASURE APPROXIMATELY 1400MM X 400MM IN SIZE. AND BE YELLOW IN COLOUR	2.2 m²	17/L401
HS-03	GLASS SEEDING IN SHADES OF BLUE	16.8 m²	2/L400
HS-04	300MM WIDE CONCRETE SEAT WALL HEIGHT VARIES REFER TO GRADING PLAN	67.8 m	9/L400
HS-05	BARKMAN BRIDGEWOOD SLAB CEDAR BROWN 890 X 250 X 51MM	m²	7/L400
HS-06	25MM DIA. WASHED GRAVEL 100MM DEPTH	112.2 m²	11/L400
HS-07	10MM WASHED AGGREGATE TO BE CONTRASTING COLOUR FROM BROOM FINISH CONCRETE BINDED WITH ROMPOX PROFI-DEKO	352.7 m²	14/L400
HS-08	STEPPING STONE PATH THROUGH PLANT BED	20.1 m	N/A
HS-09	POWDER COATED STEEL WALL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	83.2 m	18/L401
HS-10	RETAINING WALL HEIGHT VARIES. REFER TO GRADING PLAN	42.7 m	
HS-11	TUBE RAIL GUARDS ADJACENT DOWNHILL SIDE OF PATH CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	82.8 m	
HS-12	DECORATIVE WALL GUARD ON RETAINING WALL - TBD	28.4 m	
HS-13	STAIR HAND RAIL	43.2 m	16/L400
SYMBOL	DESCRIPTION	QTY	DETAIL
HS-14	STACKED FLAT ROCK TO CREATE LEVEL PLANTING PIT FOR TREES SITE BASALTIC BLACK LAVA	71	25/L401

SITE FURNISHINGS SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
SF-01	MAGLIN M8R-0350-0002 BIKE RACK 300 SERIES - 350 BIKE RACK IN GUNMETAL GLOSS 650MM HEIGHT, 1226MM LENGTH, 60MM DIAMETER H.S. STEEL TUBE, FORMED STEEL AND SOLID STEEL ANGLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) REFER TO SUPPLIER SPECIFICATIONS	6	4/L400
SF-02	MAGLIN OGM1900-S56 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS 457MM HEIGHT, 1822MM LENGTH, 457MM MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH REFER TO SUPPLIER SPECIFICATIONS	8	4/L400
SF-03	MAGLIN OGM1900-B1-S54 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKED 457MM HEIGHT, 1213MM LENGTH, 457MM DEPTH WALL MOUNT REFER TO SUPPLIER SPECIFICATIONS	2	9/L400
SF-04	MAGLIN 2200 PIXEL TALL BLOCK THERMALLY MODIFIED ASH WOOD TOP, BACKLESS, STYLE 1 SQAURE PROFILE BLOCK IN GUNMETAL GLOSS 457MM HEIGHT, 610MM WIDTH REFER TO SUPPLIER SPECIFICATIONS	19	N/A
SF-05	4 SEAT PICNIC TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00011 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (4) POWDER COATED IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 4 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	5	4/L400
SF-06	3 SEAT TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00014 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (3) POWDER COATED IN GUNMETAL GLOSS WHEELCHAIR ACCESSIBLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 3 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	3	4/L400
SF-07	ROSETTA BELVEDERE FIRE PIT FROM BARKMAN; COLOUR: FON DU LAC. CONTRACTOR TO REQUIRE TWO PACKAGES TO MEET DESIGN SPECIFICATIONS, MOUNTED WITH CONSTRUCTION ADHESIVE HEAT RESISTANT GLUE FOR MORE INFORMATION BARKMANCONCRETE.COM	1	N/A
HS-13	STAIR HAND RAIL	43.2 m	16/L400
SF-08	MAGLIN OGM1900-SCR4 45 DEGREE CURVED BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT), BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH 457MM HEIGHT, 1316MM WIDTH, 45 DEGREE	6	4/L400
SF-09	POTENTIAL COVERED BIKE STORAGE ZONE	1	N/A
SF-10	FAVA CLUSTER SEATING TABLE.MAGLIN FAVA-2D FRAME: GUNMETAL GLOSS SURFACE: THERMALLY MODIFIED ASH 790MM H. 1016MM DIA. TABLE TOP. 2 DOUBLE SEATS. SURFACE MOUNTED REFER TO SUPPLIER SPECIFICATIONS	2	4/L400
SF-11	STRAIGHT BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND MOUNTING ON STEEL WALL FOR APPROVAL	2	N/A
SF-12	90EGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	1	N/A
SF-13	3DEGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	2	16/L400
SF-14	SITE SIGNAGE (TBD) CAMPUS DIRECTIONAL SIGN ON CONCRETE BASE	2	N/A

5 0 5 10m
SCALE 1:200

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Keyplans

Notes

No.	Issued & Revision	By	Appd.	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
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2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
LAYOUT PLAN

Project No. 144214760

Scale 1:200

Revision

Drawing No. **L100**

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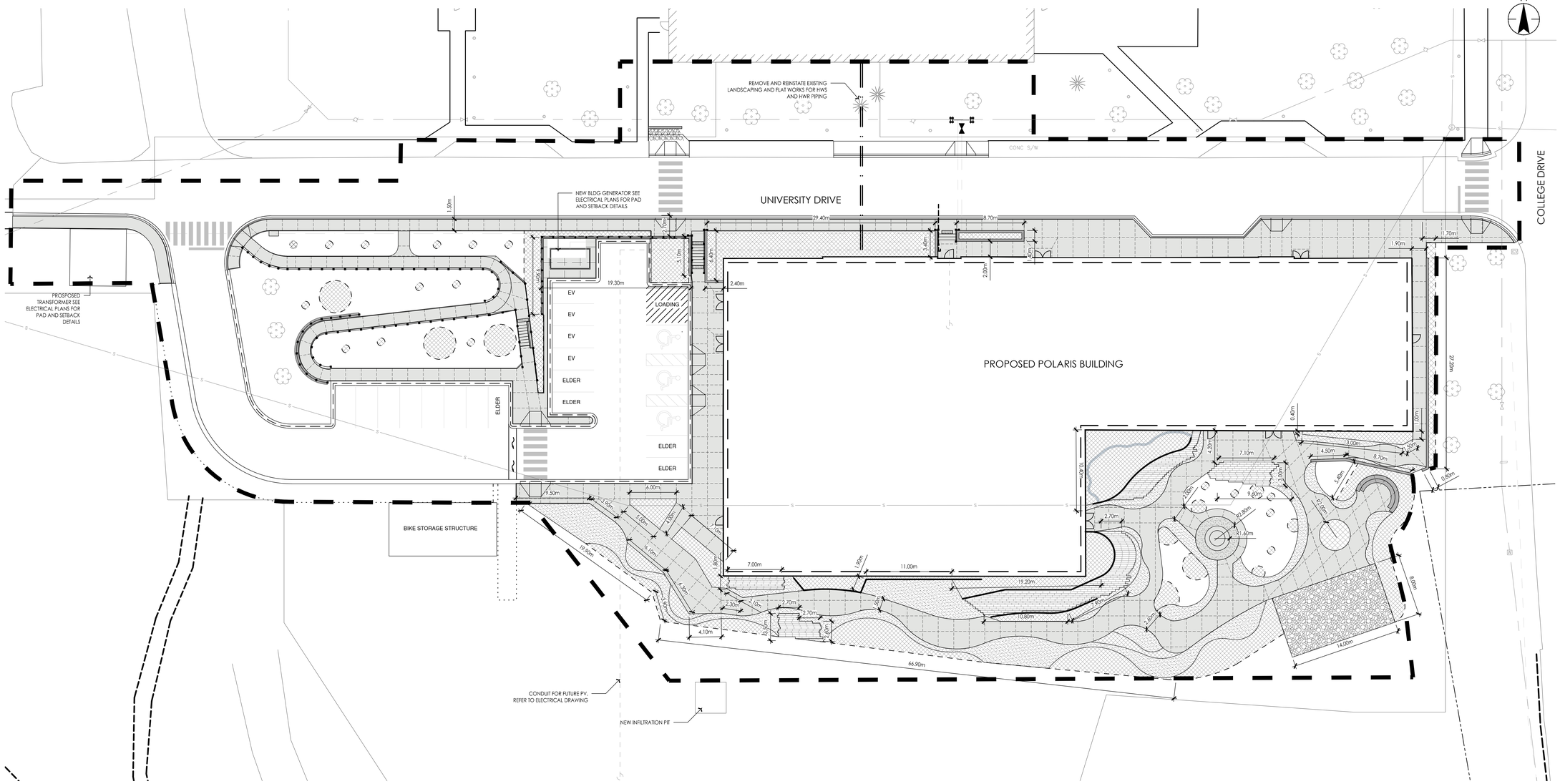

LEGEND

- LEGAL LOT LINE
- LANDSCAPE CONSTRUCTION BOUNDARY
- SANITARY SERVICE
- WATER SERVICE
- HWR AND HWS
- DRAIN DITCH
- ELECTRICAL LINE
- CONDUIT FOR FUTURE PV
- SAW CUTS

FENCING SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
FN-01	TREE PROTECTION FENCE	131.5 m	1/L400

GROUNDCOVER SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
GC-01	MULCH	751.2 m²	12/L400

HARDSCAPING SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
HS-01	BROOM FINISH CONCRETE NOTE: CONCRETE IN SOUTH LANDSCAPE AREA TO INCLUDE 25% CUSTOM SAND BLAST PATTERNS (161 SQM.)	1,591 m²	2/C-502
HS-02	TACTILE WARNING INDICATOR INDIVIDUAL TILES TO MEASURE APPROXIMATELY 1400MM X 400MM IN SIZE, AND BE YELLOW IN COLOUR	2.2 m²	17/L401
HS-03	GLASS SEEDING IN SHADES OF BLUE	16.8 m²	2/L400
HS-04	300MM WIDE CONCRETE SEAT WALL HEIGHT VARIES REFER TO GRADING PLAN	67.8 m	9/L400
HS-05	BARKMAN BRIDGEWOOD SLAB CEDAR BROWN 890 X 250 X 51MM	m²	7/L400
HS-06	25MM DIA. WASHED GRAVEL 100MM DEPTH	112.2 m²	11/L400
HS-07	10MM WASHED AGGREGATE TO BE CONTRASTING COLOUR FROM BROOM FINISH CONCRETE BINDED WITH ROMPOX PROFI-DEKO	352.7 m²	14/L400
HS-08	STEPPING STONE PATH THROUGH PLANT BED	20.1 m	N/A
HS-09	POWDER COATED STEEL WALL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	83.2 m	18/L401
HS-10	RETAINING WALL HEIGHT VARIES, REFER TO GRADING PLAN	42.7 m	
HS-11	TUBE RAIL GUARDS ADJACENT DOWNHILL SIDE OF PATH CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL	82.8 m	
HS-12	DECORATIVE WALL GUARD ON RETAINING WALL - TBD	28.4 m	
HS-13	STAIR HAND RAIL	43.2 m	16/L400
SYMBOL	DESCRIPTION	QTY	DETAIL
HS-14	STACKED FLAT ROCK TO CREATE LEVEL PLANTING PIT FOR TREES SIZE RANGE: 0.5M -1.5M DIA.	71	25/L401

SCALE 1:200

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Notes

6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
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2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11.09.22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
HARDSCAPE PLAN

Project No. 144214760

Scale 1:200

Revision

Drawing No. **L101**

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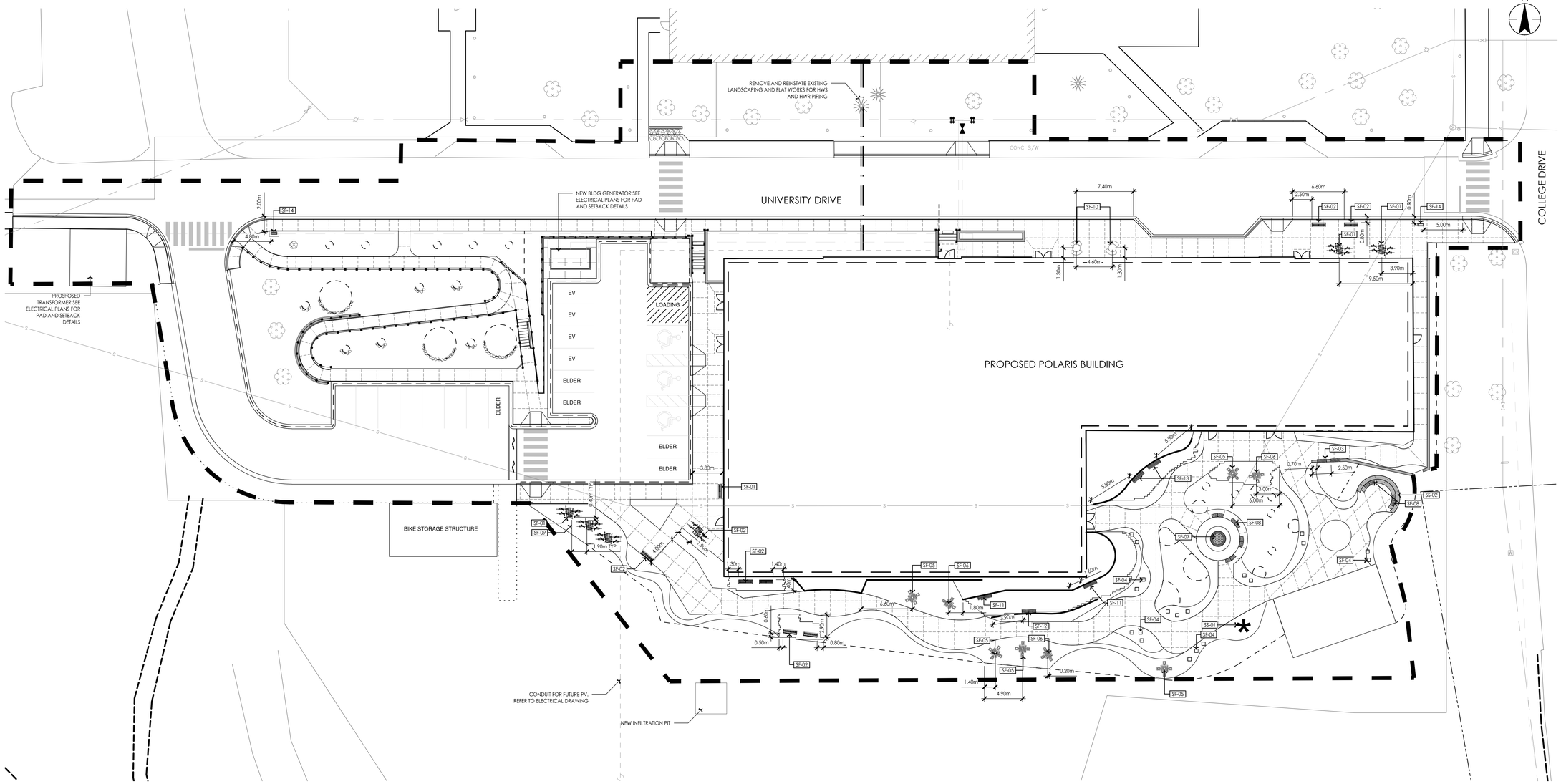

LEGEND

- LEGAL LOT LINE
- LANDSCAPE CONSTRUCTION BOUNDARY
- SANITARY SERVICE
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- ELECTRICAL LINE
- CONDUIT FOR FUTURE PV
- SAW CUTS

SITE STRUCTURES SCHEDULE L100

	SYMBOL	DESCRIPTION	QTY	DETAIL
*	SS-01	POTENTIAL LOCATION FOR WOOD SHED	1	N/A
	SS-02	TIERED CONCRETE SEATING WITH WOOD BENCH TOPS SURFACE: THERMALLY MODIFIED ASH	1	3/L400

SITE FURNISHINGS SCHEDULE L100

SYMBOL	DESCRIPTION	QTY	DETAIL
SF-01	MAGLIN MBR-0350-0002 BIKE RACK 300 SERIES - 350 BIKE RACK IN GUNMETAL GLOSS 605MM HEIGHT, 1226MM LENGTH, 625MM DIAMETER H.S. STEEL TUBE, FORMED STEEL AND SOLID STEEL ANGLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) REFER TO SUPPLIER SPECIFICATIONS	6	4/L400
SF-02	MAGLIN OGM1900-SS6 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS 457MM HEIGHT, 1822MM LENGTH, 457MM MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH REFER TO SUPPLIER SPECIFICATIONS	8	4/L400
SF-03	MAGLIN OGM1900-B1-SS4 STRAIGHT BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT) - BACKED 457MM HEIGHT, 1213MM LENGTH, 457MM DEPTH WALL MOUNT REFER TO SUPPLIER SPECIFICATIONS	2	9/L400
SF-04	MAGLIN 2200 PIXEL TALL BLOCK THERMALLY MODIFIED ASH WOOD TOP, BACKLESS, STYLE 1 SQAURE PROFILE BLOCK IN GUNMETAL GLOSS 457MM HEIGHT, 610MM WIDTH REFER TO SUPPLIER SPECIFICATIONS	19	N/A
SF-05	4 SEAT PICNIC TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00011 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (4) POWDER COATED IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 4 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	5	4/L400
SF-06	3 SEAT TABLE MAGLIN 1100 CLUSTER SEATING MTB-1100-00014 H.S. STEEL TUBE FRAME, THERMALLY MODIFIED ASH WOOD TABLE TOP AND ATTACHED BACKLESS SEATS (3) POWDER COATED IN GUNMETAL GLOSS WHEELCHAIR ACCESSIBLE MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 3 ANCHORS PER TABLE REFER TO SUPPLIER SPECIFICATIONS	3	4/L400
SF-07	ROSETTA BELVEDERE FIRE PIT FROM BARKMAN; COLOUR: FON DU LAC, CONTRACTOR TO REQUIRE TWO PACKAGES TO MEET DESIGN SPECIFICATIONS, MOUNTED WITH CONSTRUCTION ADHESIVE HEAT RESISTANT GLUE FOR MORE INFORMATION BARKMANCONCRETE.COM	1	N/A
HS-13	STAIR HAND RAIL	43.2 m	16/L400
SF-08	MAGLIN OGM1900-SCR4 45 DEGREE CURVED BENCH THERMALLY MODIFIED ASH WOOD TOP (LEFT TO RIGHT), BACKLESS PEDESTAL LEG IN GUNMETAL GLOSS MOUNTED WITH WISHBONE THE BASE IN GROUND MOUNTING ANCHOR (HBGA-C) - 2 ANCHORS PER BENCH 457MM HEIGHT, 1316MM WIDTH, 45 DEGREE	6	4/L400
SF-09	POTENTIAL COVERED BIKE STORAGE ZONE	1	N/A
SF-10	FAVA CLUSTER SEATING TABLE MAGLIN FAVA-2D FRAME: GUNMETAL GLOSS SURFACE: THERMALLY MODIFIED ASH 790MM H. 1016MM DIA. TABLE TOP, 2 DOUBLE SEATS. SURFACE MOUNTED REFER TO SUPPLIER SPECIFICATIONS	2	4/L400
SF-11	STRAIGHT BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND MOUNTING ON STEEL WALL FOR APPROVAL	2	N/A
SF-12	9DEGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	1	N/A
SF-13	3DEGREE CURVED BENCH THERMALLY MODIFIED ASH (LEFT TO RIGHT) - BACKLESS CANTILEVER MOUNTED CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCH AND FOR MOUNTING ON STEEL WALL FOR APPROVAL	2	16/L400
SF-14	SITE SIGNAGE (TBD) CAMPUS DIRECTIONAL SIGN ON CONCRETE BASE	2	N/A

5 0 5 10m
SCALE 1:200

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Yukon University

Keyplans

Notes

6	REISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16

Issued & Revision

File Name: N/A

Author	Designer	Checker	11.09/22
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
SITE FURNISHINGS PLAN

Project No. 144214760

Scale 1:200

Revision

Drawing No. **L102**

ORIGINAL SHEET - ISO A0

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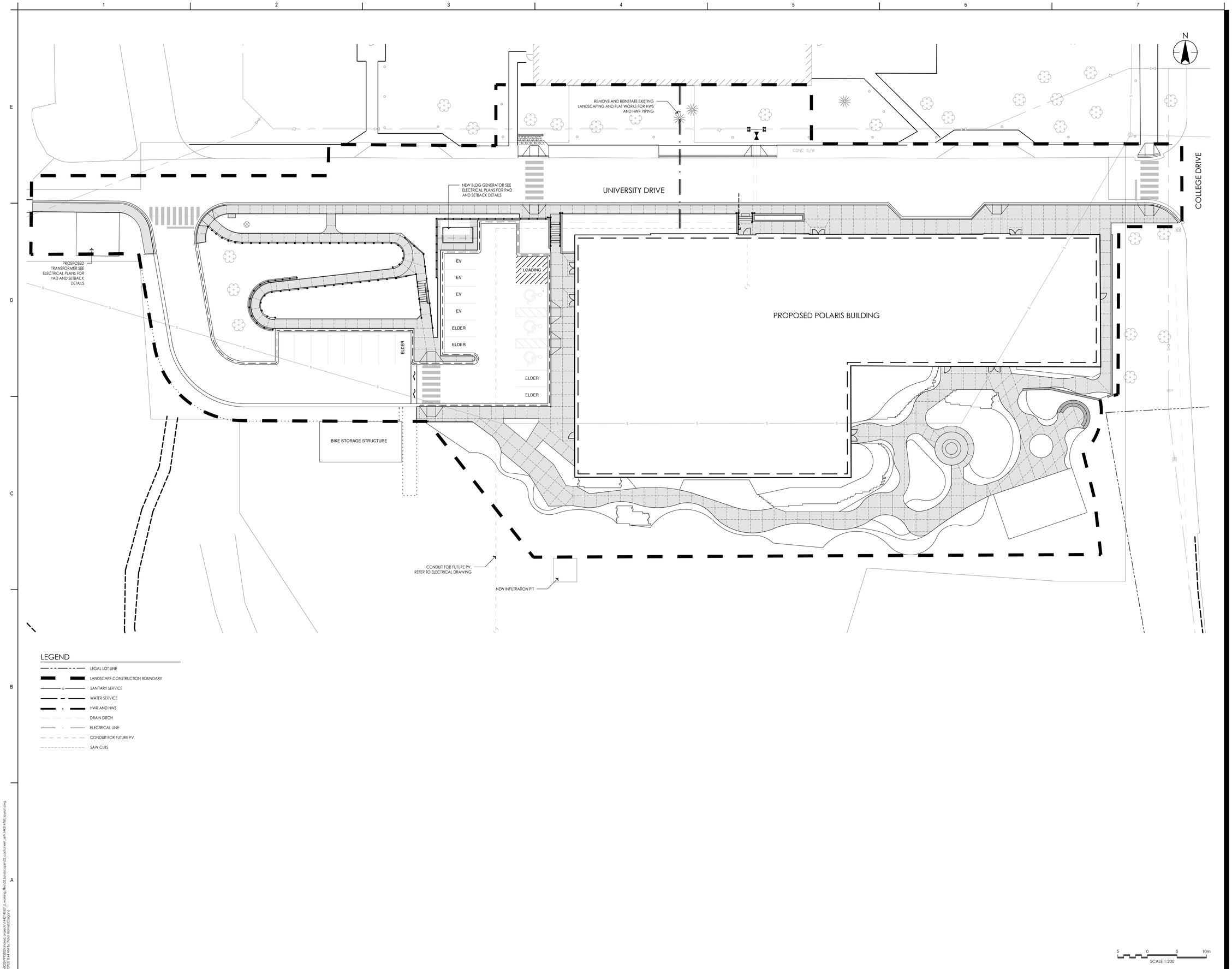

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Keyplans

Notes

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2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project

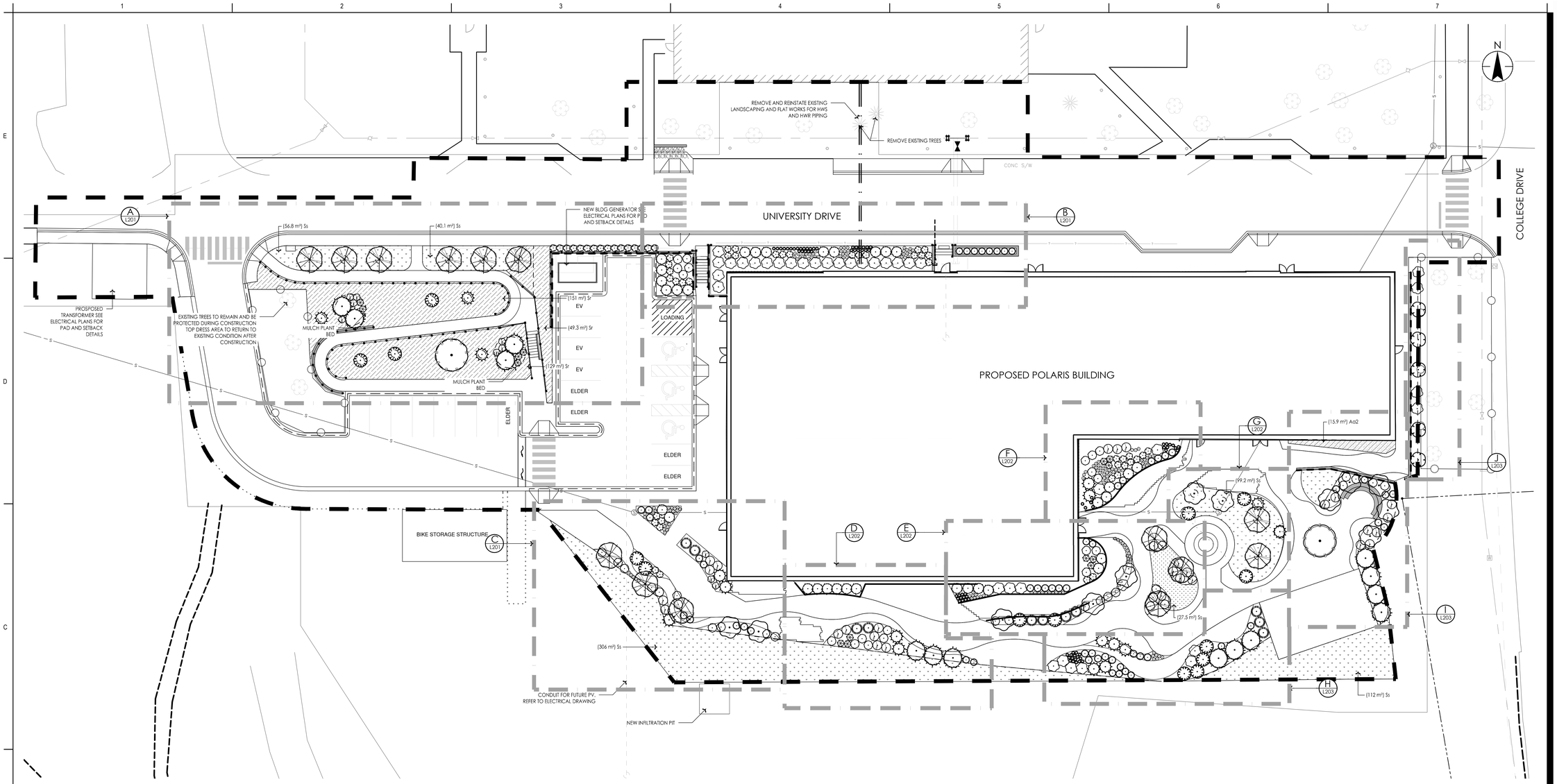
Yukon University

Polaris Project

Title

CONCRETE SAW CUT PLAN

Project No.	Scale
144214760	1:200
Revision	Drawing No.
	L103



LEGEND

- LEGAL LOT LINE
- LANDSCAPE CONSTRUCTION BOUND
- SANITARY SERVICE
- WATER SERVICE
- HWR AND HWS
- DRAIN DITCH
- ELECTRICAL LINE
- CONDUIT FOR FUTURE PV

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
TREES					
	Bp	14	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
	Le	14	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
	Pg	14	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.	22/L401
	Pb	11	PICEA MARIANA / BLACK SPRUCE	2.0M HT.	22/L401
	Pb2	2	PINUS ARISTATA / BRISTLECONE PINE	2.0M HT.	22/L401
	Pl	17	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.	22/L401
	Pt2	5	POPULUS TREMULOIDES / TREMBLING ASPEN	#5 POT	23/L401
	Pt	12	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.	23/L401

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Am	74	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
	Ai	14	ALNUS INCANA / GRAY ALDER	#1 (1 GAL.)	900MM O.C.	26/L401
	Aa	10	ALNUS TENUIFOLIA / MOUNTAIN ALDER	#1GAL.	900MM O.C.	26/L401
	Al2	88	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
	Cr	48	CORNUS SERICEA / RED TWIG DOGWOOD	#1 (1 GAL.)	1200MM O.C.	26/L401
	Cb	27	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 (2 GAL.)	1200MM O.C.	26/L401
	Jj	33	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 (1 GAL.)	1500MM O.C.	26/L401
	Jb	37	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 (1 GAL.)	1000MM O.C.	26/L401
	Pp2	58	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 (1 GAL.)	900MM O.C.	26/L401
	Sl	38	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401
	Sl2	54	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401
	Sy	19	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 (1 GAL.)	900MM O.C.	26/L401

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	DETAIL
GROUND COVERS					
	Aa2	15.9 m²	ACORUS AMERICANUS / SWEET FLAG	PLUG	27/L401
	Ss	659.3 m²	KENTUCKY BLUEGRASS / SOD	SOD	27/L401
	Sr	329.3 m²	NATURALIZED SEED MIX / SEED NO MOW SEED TO BE CLASS 3 MIX AS PER CITY OF WHITEHORSE SERVICING STANDARDS MANUAL	SEED	

5 0 5 10m
SCALE 1:200

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Notes

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	Issued & Revision	By	Appd	YYYY.MM.DD

	Author	Designer	Checker	
File Name: N/A	Dwn.	Dsgn.	Chkd.	11/09/22 YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
PLANTING PLAN

Project No. 144214760

Scale 1:200

Revision

Drawing No. **L200**

\\CA002249150\shared_projects\144214760_working_files\02_landscape\02_cad\sheet sets\144214760_planting.dwg
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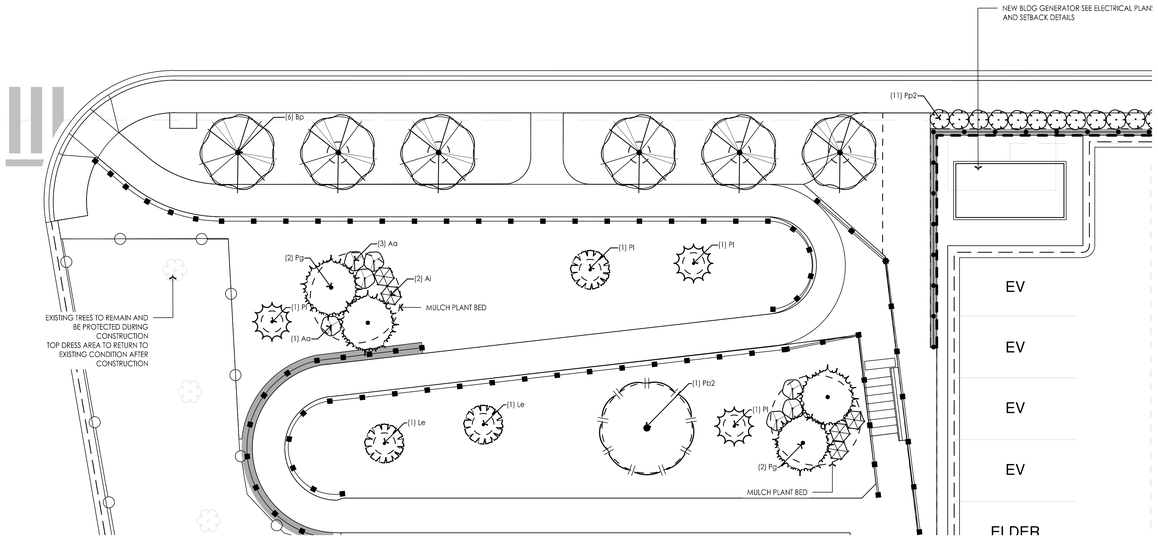
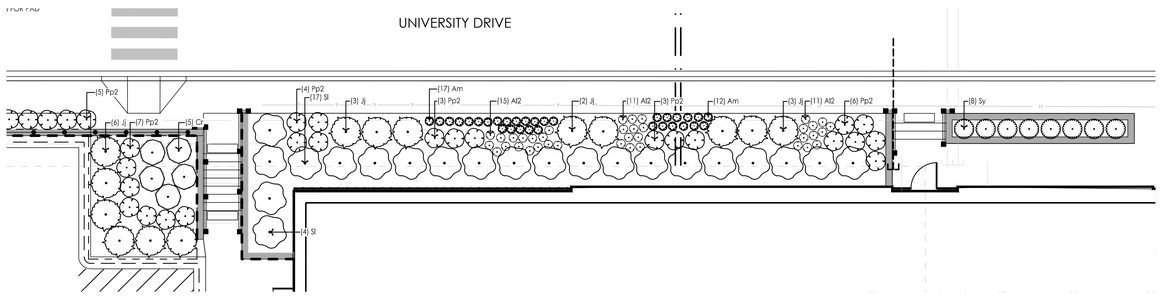


A PLANTING ENLARGEMENT
SCALE: 1:100

PLANT SCHEDULE A

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
TREES					
	Bp	6	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
	Le	3	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
	Pg	4	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.	22/L401
	Pb2	1	PINUS ARISTATA / BRISTLECONE PINE	2.0M HT.	22/L401
	Pl	3	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.	22/L401

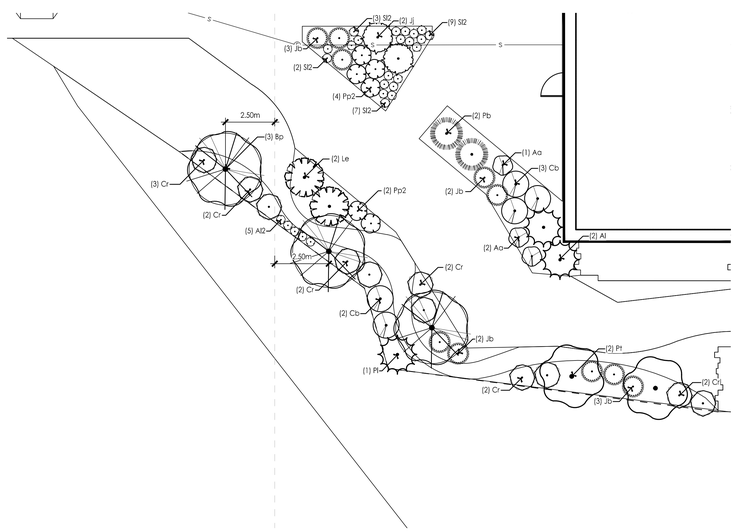
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Ai	5	ALNUS INCANA / GRAY ALDER	#1 (1 GAL.)	900MM O.C.	26/L401
	Aa	7	ALNUS TENUIFOLIA / MOUNTAIN ALDER	#1GAL.	900MM O.C.	26/L401
	Pp2	11	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 (1 GAL.)	900MM O.C.	26/L401



B PLANTING ENLARGEMENT
SCALE: 1:100

PLANT SCHEDULE B

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Am	31	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
	Al2	37	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
	Cr	5	CORNUS SERICEA / RED TWIG DOGWOOD	#1 (1 GAL.)	1200MM O.C.	26/L401
	Jj	14	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 (1 GAL.)	1500MM O.C.	26/L401
	Pp2	28	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 (1 GAL.)	900MM O.C.	26/L401
	Sl	21	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401
	Sy	8	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 (1 GAL.)	900MM O.C.	26/L401



C PLANTING ENLARGEMENT
SCALE: 1:100

PLANT SCHEDULE C

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
TREES					
	Bp	3	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
	Le	2	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
	Pb	2	PICEA MARIANA / BLACK SPRUCE	2.0M HT.	22/L401
	Pl	3	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.	22/L401
	Pt	2	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.	23/L401

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Aa	3	ALNUS TENUIFOLIA / MOUNTAIN ALDER	#1GAL.	900MM O.C.	26/L401
	Al2	5	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
	Cr	11	CORNUS SERICEA / RED TWIG DOGWOOD	#1 (1 GAL.)	1200MM O.C.	26/L401
	Cb	5	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 (2 GAL.)	1200MM O.C.	26/L401
	Jj	2	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 (1 GAL.)	1500MM O.C.	26/L401
	Jb	10	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 (1 GAL.)	1000MM O.C.	26/L401
	Pp2	6	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 (1 GAL.)	900MM O.C.	26/L401
	Sl2	21	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401

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Keyplans

Notes

6	REISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11.09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
PLANTING PLAN ENLARGEMENTS

Project No. 144214760

Scale

Revision

Drawing No.
L201

ORIGINAL SHEET - ISO A0

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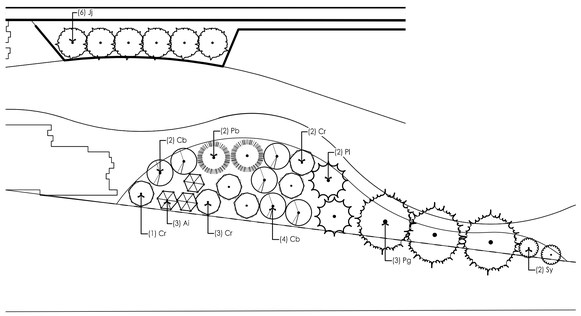


PLANT SCHEDULE D

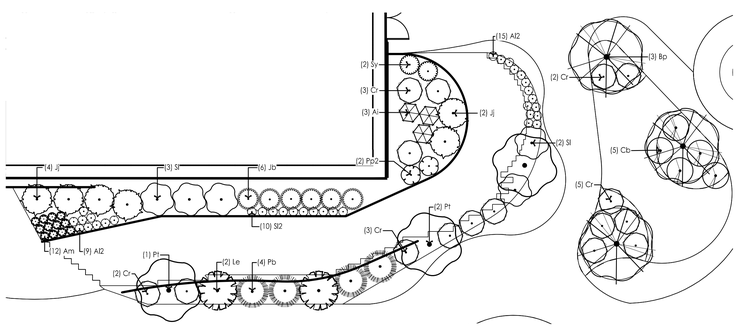
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT		DETAIL
TREES						
	Pg	3	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.		22/L401
	Pb	2	PICEA MARIANA / BLACK SPRUCE	2.0M HT.		22/L401
	Pl	2	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.		22/L401
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Ai	3	ALNUS INCANA / GRAY ALDER	#1 [1 GAL.]	900MM O.C.	26/L401
	Cr	6	CORNUS SERICEA / RED TWIG DOGWOOD	#1 [1 GAL.]	1200MM O.C.	26/L401
	Cb	6	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 [2 GAL.]	1200MM O.C.	26/L401
	Jj	6	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 [1 GAL.]	1500MM O.C.	26/L401
	Sy	2	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 [1 GAL.]	900MM O.C.	26/L401

D PLANTING ENLARGEMENT
SCALE: 1:100

PLANT SCHEDULE E

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
TREES					
	Bp	3	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
	Le	2	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
	Pb	4	PICEA MARIANA / BLACK SPRUCE	2.0M HT.	22/L401
	Pt	3	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.	23/L401

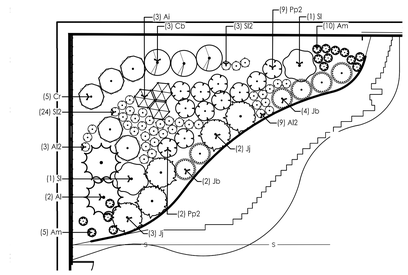
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Am	12	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
	Ai	3	ALNUS INCANA / GRAY ALDER	#1 [1 GAL.]	900MM O.C.	26/L401
	Al2	23	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
	Cr	16	CORNUS SERICEA / RED TWIG DOGWOOD	#1 [1 GAL.]	1200MM O.C.	26/L401
	Cb	5	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 [2 GAL.]	1200MM O.C.	26/L401
	Jj	6	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 [1 GAL.]	1500MM O.C.	26/L401
	Jb	6	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 [1 GAL.]	1000MM O.C.	26/L401
	Pp2	2	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 [1 GAL.]	900MM O.C.	26/L401
	Sl	5	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401
	Sl2	10	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401
	Sy	2	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 [1 GAL.]	900MM O.C.	26/L401



E PLANTING ENLARGEMENT
SCALE: 1:100

PLANT SCHEDULE F

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT		DETAIL
TREES						
	Pl	2	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.		22/L401
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Am	15	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
	Ai	3	ALNUS INCANA / GRAY ALDER	#1 [1 GAL.]	900MM O.C.	26/L401
	Al2	23	ARTEMISIA LUDOVICIANA / WHITE SAGEBRUSH	10CM POT	400MM O.C.	26/L401
	Cr	5	CORNUS SERICEA / RED TWIG DOGWOOD	#1 [1 GAL.]	1200MM O.C.	26/L401
	Cb	3	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 [2 GAL.]	1200MM O.C.	26/L401
	Jj	5	JUNIPERUS COMMUNIS / COMMON JUNIPER	#1 [1 GAL.]	1500MM O.C.	26/L401
	Jb	6	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 [1 GAL.]	1000MM O.C.	26/L401
	Pp2	11	PINUS MUGO 'PUMILIO' / DWARF MUGO PINE	#1 [1 GAL.]	900MM O.C.	26/L401
	Sl	2	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401
	Sl2	16	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401



F PLANTING ENLARGEMENT
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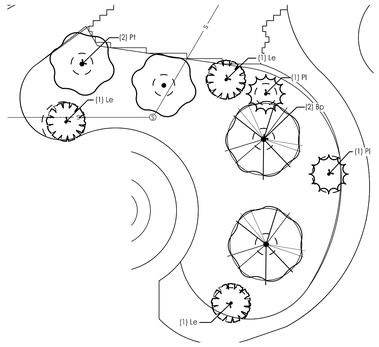

PLANT SCHEDULE G

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT	DETAIL
TREES					
	Bp	2	BETULA PAPYRIFERA / PAPER BIRCH	60MM CAL.	23/L401
	Le	3	LARIX LARICINA / TAMARACK LARCH	50MM CAL.	23/L401
	Pl	2	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.	22/L401
	Pt	2	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.	23/L401

G PLANTING ENLARGEMENT
SCALE: 1:100

N

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Client/Project Logo

Yukon University

Keyplans

Notes

6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 80% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project
Yukon University
Polaris Project

Title
PLANTING PLAN ENLARGEMENTS

Project No. 144214760

Scale

Revision

Drawing No.
L202

\\CA0004-FPS020\shared_projects\144214760_6_working_files\02_landscape\02_cad\sheet sets\144214760_plantingl.dwg
2024/09/27 9:55 AM By: Pablo Kosnik (CA0ppxk)

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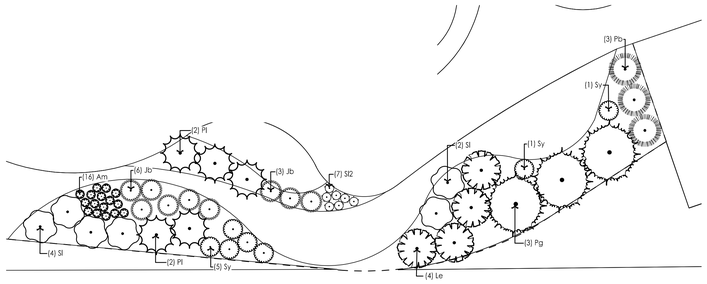
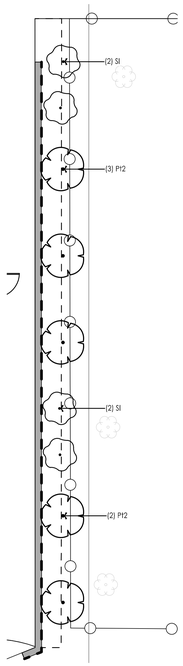


PLANT SCHEDULE H

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT		DETAIL
TREES						
	Le	4	LARIX LARICINA / TAMARACK LARCH	50MM CAL.		23/L401
	Pg	3	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.		22/L401
	Pb	3	PICEA MARIANA / BLACK SPRUCE	2.0M HT.		22/L401
	Pl	5	PINUS CONTORTA LATIFOLIA / LODGEPOLE PINE	2.5M HT.		22/L401
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Am	16	ACHILLEA MILLEFOLIUM / COMMON YARROW	10CM POT	400MM O.C.	26/L401
	Jb	9	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 (1 GAL.)	1000MM O.C.	26/L401
	Sl	6	SALIX SALICOLA / POLAR BEAR WILLOW	15CM POT	1500MM O.C.	26/L401
	Sl2	7	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	10CM POT	400MM O.C.	26/L401
	Sy	7	SYRINGA MICROPHYLLA / LITTLELEAF LILAC	#1 (1 GAL.)	900MM O.C.	26/L401

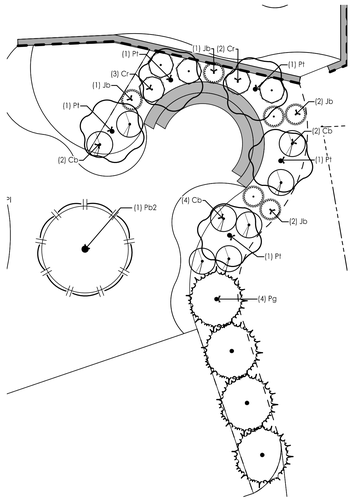
H PLANTING ENLARGEMENT
SCALE: 1:100



PLANT SCHEDULE J

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT		DETAIL
TREES						
	Pt2	5	POPULUS TREMULOIDES / TREMBLING ASPEN	#5 POT		23/L401
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Sl	4	SALIX SALICOLA / POLAR BEAR WILLLOW	15CM POT	1500MM O.C.	26/L401

J PLANTING ENLARGEMENT
SCALE: 1:100



PLANT SCHEDULE I

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL/HT		DETAIL
TREES						
	Pg	4	PICEA GLAUCA / WHITE SPRUCE	1.5M HT.		22/L401
	Pb2	1	PINUS ARISTATA / BRISTLECONE PINE	2.0M HT.		22/L401
	Pt	5	POPULUS TREMULOIDES / TREMBLING ASPEN	60MM CAL.		23/L401
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	DETAIL
SHRUBS						
	Cr	5	CORNUS SERICEA / RED TWIG DOGWOOD	#1 (1 GAL.)	1200MM O.C.	26/L401
	Cb	8	CORNUS SERICEA 'BUDD'S YELLOW' / BUDD'S YELLOW TWIG DOGWOOD	#2 (2 GAL.)	1200MM O.C.	26/L401
	Jb	6	JUNIPERUS HORIZONTALIS 'BLUE CHIP' / BLUE CHIP CREEPING JUNIPER	#1 (1 GAL.)	1000MM O.C.	26/L401

I PLANTING ENLARGEMENT
SCALE: 1:100

N

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Client/Project Logo

Yukon University

Keyplans

Notes

4	REISSUED FOR TENDER	KP	MW	2024.09.30
3	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11.09'22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
PLANTING PLAN ENLARGEMENTS

Project No. 144214760

Scale

Revision

Drawing No. **L203**

\\CA0002-FPRS02\Grand_projects\144214760_working_files\02_landscape\02_cad\sheet_set\144214760_plantingdwg
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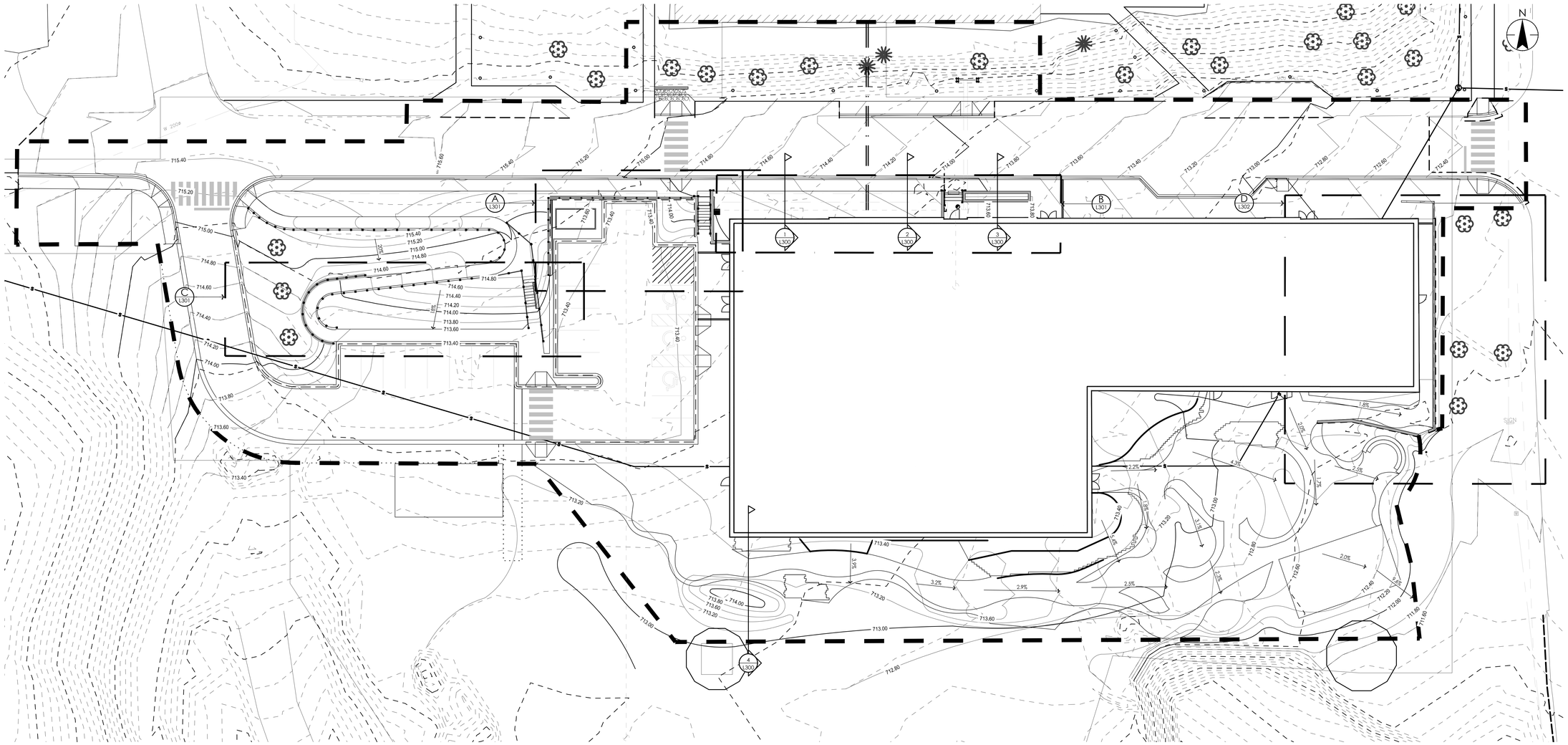
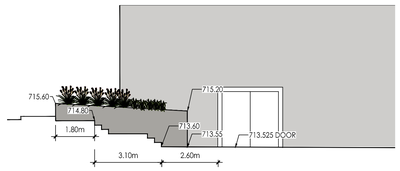


LEGEND

	PROJECT BOUNDARY
SS	SANITARY SERVICE
	WATER SERVICE
	HWR AND HWS
	DRAIN DITCH
	ELECTRICAL LINE
	EXISTING CONTOURS
	PROPOSED CONTOURS
713.80 BW	SPOT ELEVATIONS
TOP OF WALL / BOTTOM OF WALL	TW / BW



1 SECTION 1
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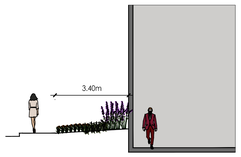

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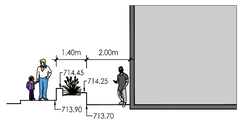

3 SECTION 3
SCALE: 1:100

4 SECTION 4
SCALE: 1:100

5 0 5 10m
SCALE 1:200

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Keyplans

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Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A

Author	Designer	Checker	11.09.22
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
GRADING PLAN

Project No. 144214760

Scale 1:200

Revision

Drawing No. **L300**

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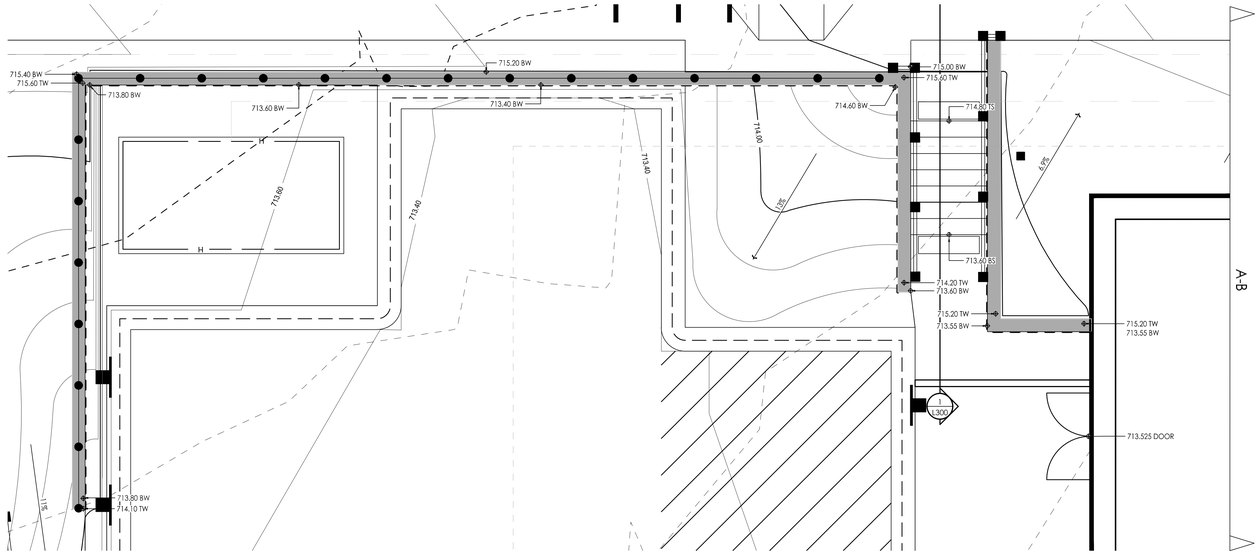
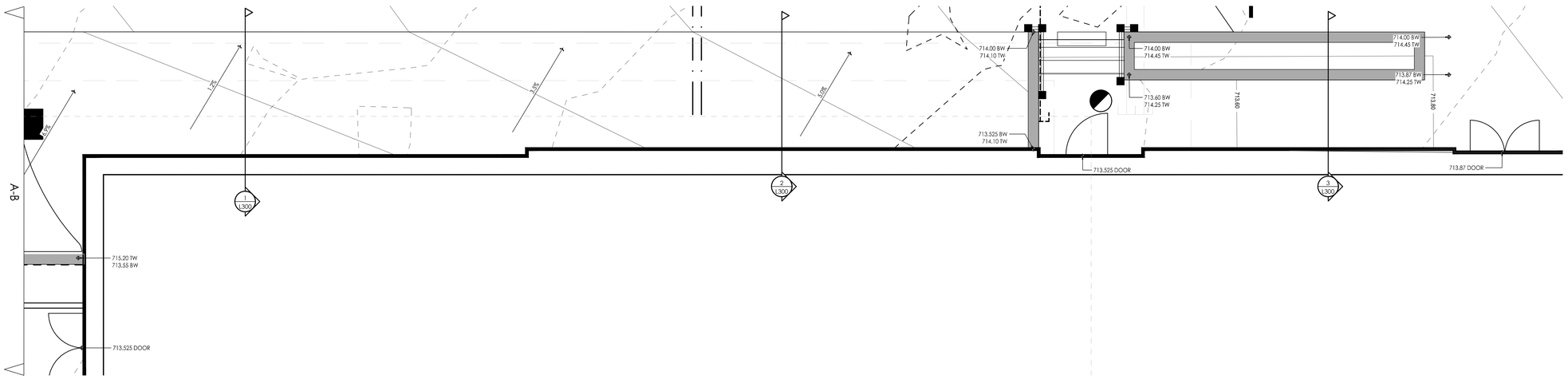


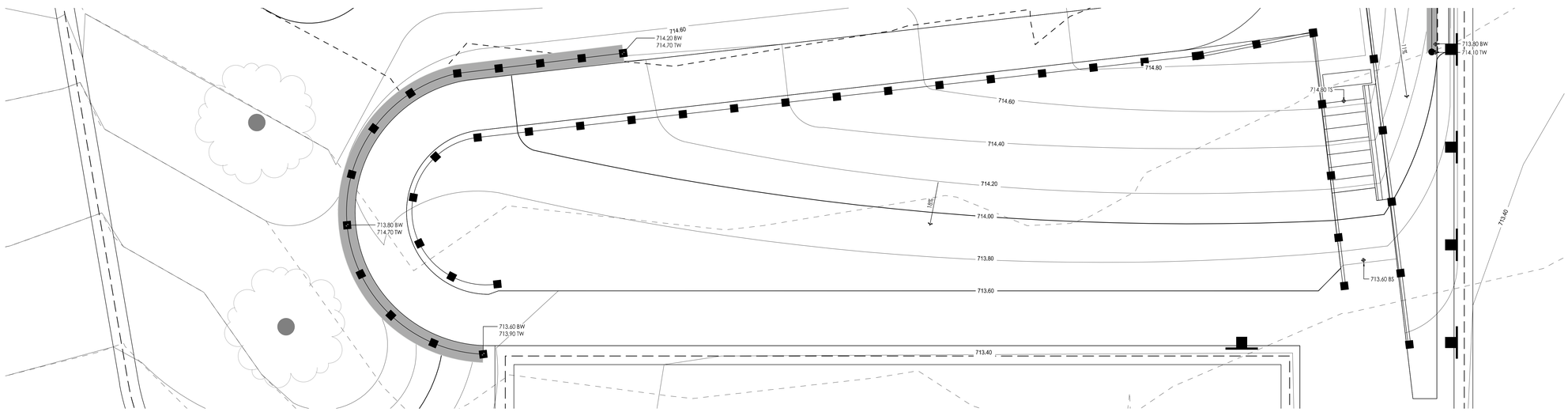
A PARKING LOT RETAINING WALL
SCALE: 1:50

0 0.5 1 2 3m
SCALE 1:50



B NORTH SIDEWALK PLANTER/SEAT WALL
SCALE: 1:50

0 0.5 1 2 3m
SCALE 1:50



C PATHWAY SWITCHBACK RETAINING WALL
SCALE: 1:50

0 0.5 1 2 3m
SCALE 1:50

LEGEND

- PROJECT BOUNDARY
- SANITARY SERVICE
- WATER SERVICE
- HWR AND HWS
- DRAIN DITCH
- ELECTRICAL LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- 713.80 BW — SPOT ELEVATIONS
- TOP OF WALL / BOTTOM OF WALL — TW / BW

N

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Yukon University

Keyplans

Notes

Issued & Revision		By	Appd	YYYY.MM.DD
6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
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File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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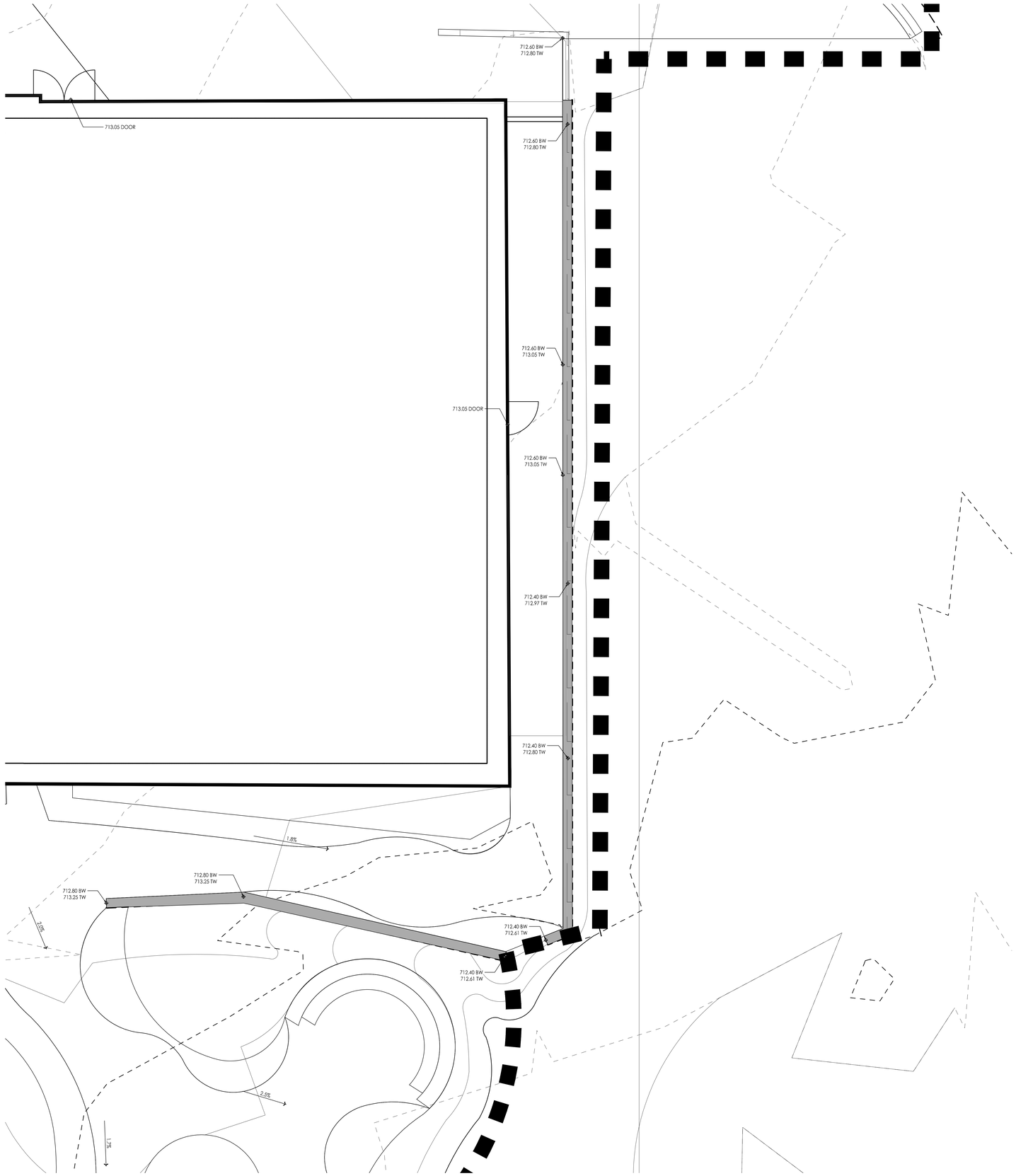
Client/Project
Yukon University
Polaris Project

Title
GRADING PLAN ENLARGEMENTS

Project No. 144214760
Scale AS INDICATED
Revision
Drawing No. **L301**

ORIGINAL SHEET - ISO A0



D EAST SIDE CURB AND SEATWALL
SCALE: 1:50

0 0.5 1 2 3m
SCALE 1:50

LEGEND

	PROJECT BOUNDARY
SS	SANITARY SERVICE
	WATER SERVICE
	HWR AND HWS
	DRAIN DITCH
	ELECTRICAL LINE
	EXISTING CONTOURS
	PROPOSED CONTOURS
713.80 BW	SPOT ELEVATIONS
TOP OF WALL / BOTTOM OF WALL	TW / BW

N

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Yukon University

Keyplans

Notes

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4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16

Issued & Revision

File Name: N/A	Author	Designer	Checker	11/09/22
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Client/Project
Yukon University
Polaris Project

Title
GRADING PLAN ENLARGEMENTS

Project No. 144214760
Scale 1:50
Revision
Drawing No. **L302**

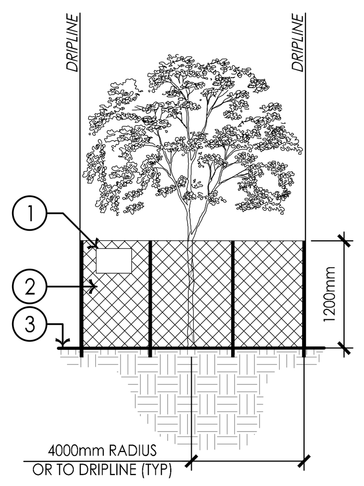
ORIGINAL SHEET - ISO A0

1 2 3 4 5 6 7

E D C B A

1 CONTRACTOR TO INSTALL SIGN ON FENCE FACING PUBLIC AREAS TO READ "WARNING TREE PROTECTION ZONE". COLOUR OF SIGN TO PROVIDE STARK CONTRAST TO FENCE FOR EASY READABILITY
2 1200mm HT BRIGHTLY COLOURED PLASTIC BARRIER FENCING SUPPORTED BY METAL T-BAR POSTS
3 EXISTING GRADE

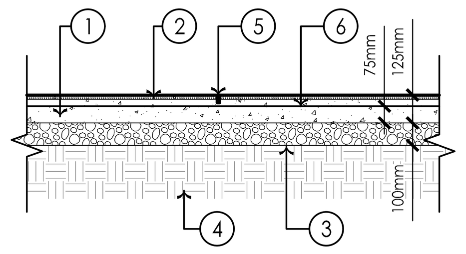
NOTES:
-ALL BRACING AND SUPPORTS SHALL BE INSTALLED TO MINIMIZE DAMAGE TO TREE ROOTS
-PROTECTIVE FENCING SHALL REMAIN STANDING AND IN GOOD CONDITION UNTIL CONSTRUCTION COMPLETION
-THE CANOPY OF THE TREE SHALL BE PROTECTED TO THE DRIPLINE, WHERE POSSIBLE
-PROTECTIVE FENCING SHALL BE INSTALLED TO MAINTAIN A PROTECTED AREA 4000mm RADIUS OUT FROM TREE TRUNK OR TO DRIPLINE, UNLESS APPROVED ON SITE BY OWNER'S ENGINEER AND PROJECT LANDSCAPE ARCHITECT
-NO EQUIPMENT OR CONSTRUCTION MATERIALS ARE TO BE STORED WITHIN THE TPZ
-NO ALTERATION OF GRADE WITHIN THE TPZ UNLESS APPROVED BY PROJECT LANDSCAPE ARCHITECT AND OWNER'S ENGINEER
-NO SOIL, CONSTRUCTION WASTE, OR DEBRIS WILL BE STORED WITHIN THE TPZ
-NO DISPOSAL OF LIQUIDS WILL OCCUR WITHIN THE TPZ
-THERE WILL BE NO ACCESS FOR VEHICLES, EQUIPMENT, OR PEDESTRIANS THROUGH THE TPZ. UNLESS EXPRESSLY PERMITTED FOR THE MAINTENANCE OF THE TREES WITHIN THE AREA
-SIGNS INDICATING THE TPZ ARE TO BE LOCATED ON THE PROTECTIVE BARRIER FENCING
- PROTECTIVE FENCING REQUIRED FOR ALL TREES WITHIN 6m OF LIMIT OF CONSTRUCTION



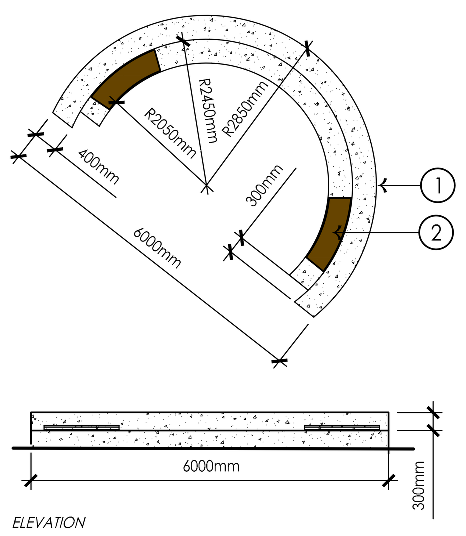
1 TREE PROTECTION FENCE
SCALE: 1:50

1 125mm DEPTH, POUR IN PLACE CONCRETE
2 HAND SEED TOP OF CONCRETE WITH FOLLOWING AGGREGATE MIX. SHADES OF BLUE COLOURS. LIGHTLY BLAST WITH WALNUT HUSKS TO EXPOSE GLOW STONE AND GLASS AGGREGATE.
3 MINIMUM 100mm DEPTH OF 25mm DIAMETER CRUSH AGGREGATE BASE COMPACTED TO 98% SPD
4 COMPACTED SUBGRADE TO 98% SPD
5 SAWCUT OR TOOLED CONTROL JOINT, 1/3 CONCRETE DEPTH, EVERY 1500mm MAX (AS REQUIRED)
6 STEEL MESH REINFORCEMENT

NOTES:
- CONTRACTOR SHALL PROVIDE MOCK-UP(S) OF GLASS AGGREGATE CONCRETE, AS REQUESTED BY THE PROJECT LANDSCAPE ARCHITECT.
- MOCK-UP MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ONSITE INSTALLATION.



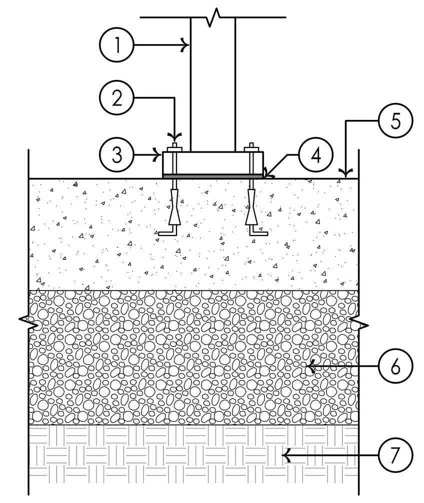
2 CONCRETE WITH GLASS SEEDING
SCALE: 1:20



1 CONCRETE SEAT WALL
2 WOOD SEAT TOP (REFER TO MATERIALS SCHEDULE) PROVIDE MANUFACTURER SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING

NOTE: REFER TO LAYOUT PLANS
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION

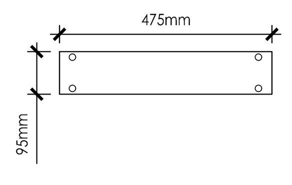
3 CONCRETE TIERED SEATING
SCALE: 1:75



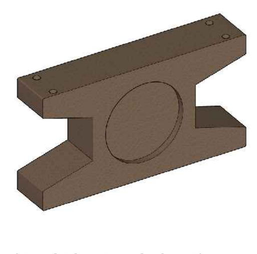
1 SITE FURNITURE PER MATERIAL SCHEDULE AND PLANS
2 STAINLESS STEEL CONCRETE WEDGE EXPANSION ANCHOR BOLTS WITH STAINLESS STEEL NUT AND WASHER, OR ADHESIVE CONNECTION (HILTI HIT-HY 200 V3)
3 BASE PLATE OR BOLT RECEIVERS ON THE SITE FURNITURE
4 NYLON PAD/GASKET PER MANUFACTURERS RECOMMENDATION
5 REINFORCED CONCRETE PER PLANS AND DETAILS
6 SUB-BASE MATERIAL PER SPECIFICATIONS
7 UNDISTURBED EARTH OR COMPACTED SOIL TO 98% SPC

4 SITE FURNITURE SURFACE MOUNT
SCALE: 1:5

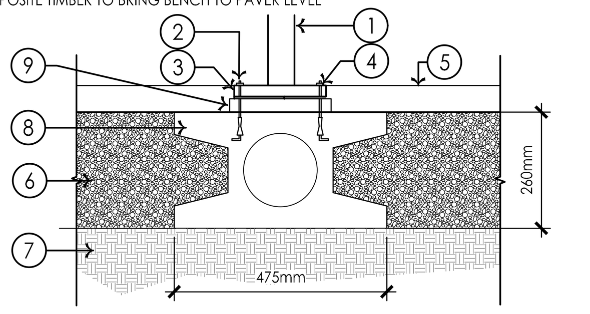
1 SITE FUNITURE PER MATERIAL SCHEDULE AND PLANS
2 STAINLESS STEEL CONCRETE WEDGE EXPANSION ANCHOR BOLTS WITH STAINLESS STEEL NUT AND WASHER, OR ADHESIVE CONNECTION (HILTI HIT-HY 200 V3)
3 BASE PLAT OR BOLT RECEIVERS ON THE SITE FURNITURE
4 NYLON PAD/GASKET PER MANUFACTURERS RECOMMENDATION
5 HARDSCAPING VARIES (REFER TO LAYOUT PLAN)
6 25mm DIA. COMPACTED GRANULAR 100mm DEPTH COMPACTED TO 98% SPD.
7 98% COMPACTED SUGRADE
8 WISHBONE BASE IN GROUND ANCHOR (HBGA-C)
9 COMPOSITE TIMBER TO BRING BENCH TO PAVER LEVEL



PLAN - BASE IN GROUND ANCHOR

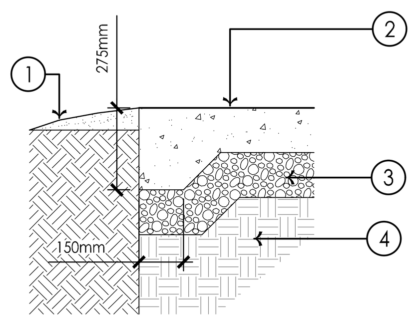


ISO - BASE IN GROUND ANCHOR NTS.



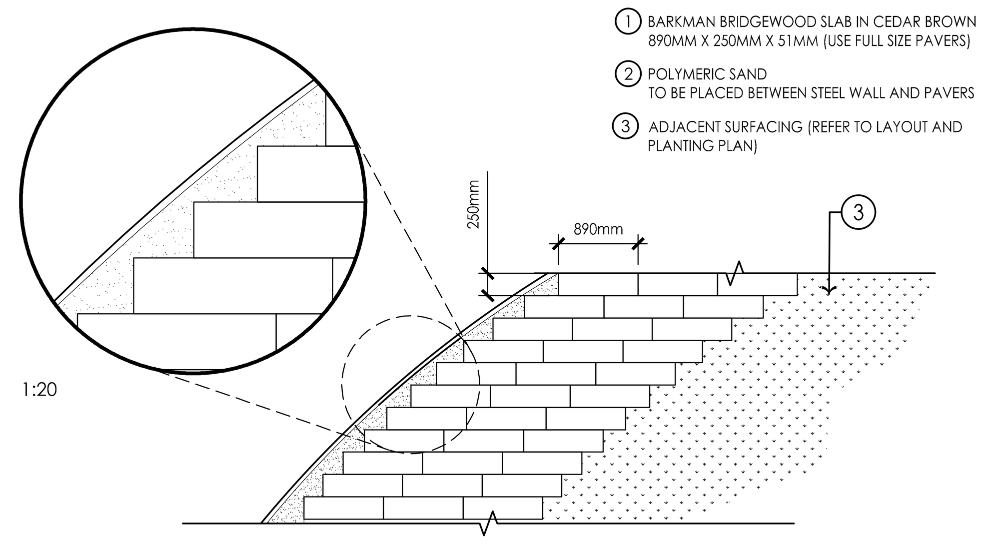
5 SITE FURNITURE BASE IN GROUND ANCHOR MOUNTING
SCALE: 1:10

1 SHRUB BED
2 CONCRETE SIDEWALK
3 GRAVEL SUB-BASE COMPACTED TO 98% SPD
4 SUBGRADE COMPACTED TO 98% SPD



6 THICKENED CONCRETE EDGE
SCALE: 1:15

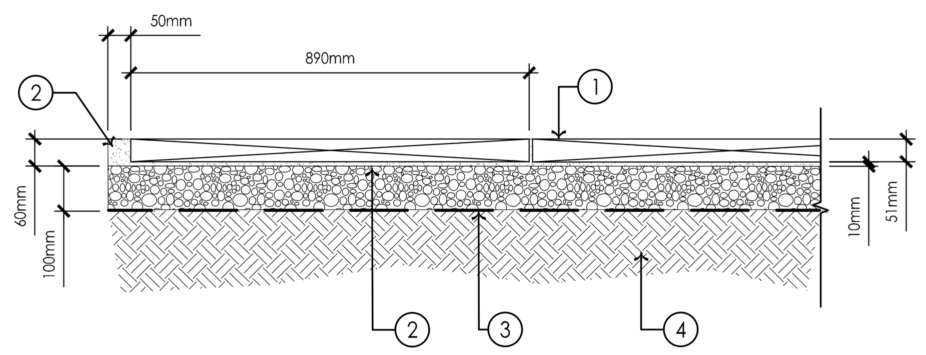
1 BARKMAN BRIDGEWOOD SLAB IN CEDAR BROWN 890MM X 250MM X 51MM (USE FULL SIZE PAVERS)
2 POLYMERIC SAND TO BE PLACED BETWEEN STEEL WALL AND PAVERS
3 ADJACENT SURFACING (REFER TO LAYOUT AND PLANTING PLAN)



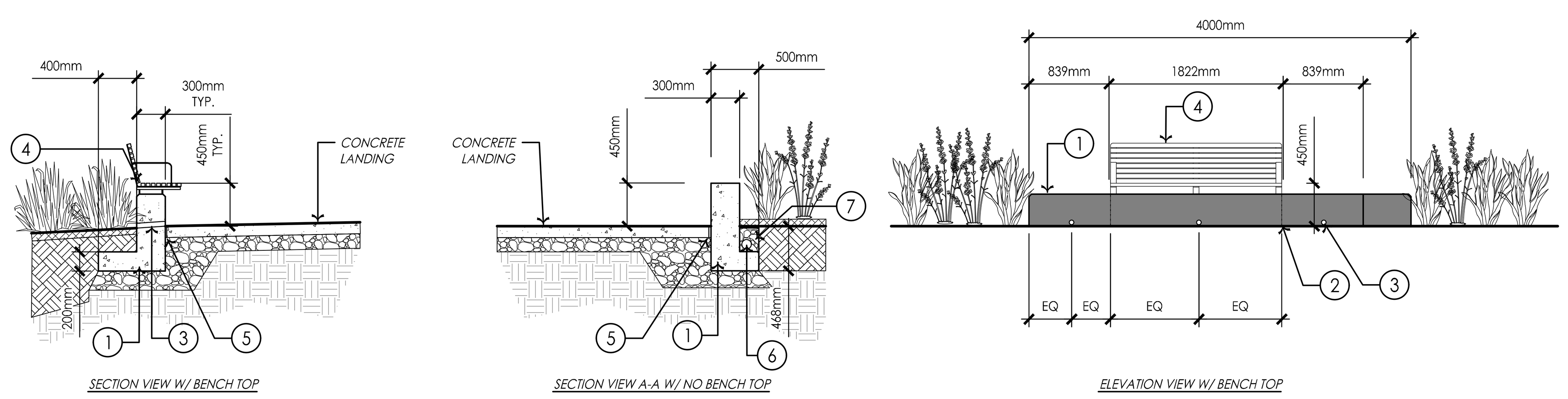
NOTE: DETAIL INDICATES INTENT OF PAVER LAYOUT, AND TRANSITIONS BETWEEN PLANT BEDS OR WASHED AGGREGATE EXACT LAYOUT TO BE DETERMINED ON SITE.

7 BARKMAN BRIDGEWOOD SLAB
SCALE: 1:50

1 BARKMAN BRIDGEWOOD SLAB CEDAR BROWN 890MM X 250MM X 51MM
2 POLYMERIC SAND
3 GEOTEXTILE
4 COMPACTED SUBGRADE



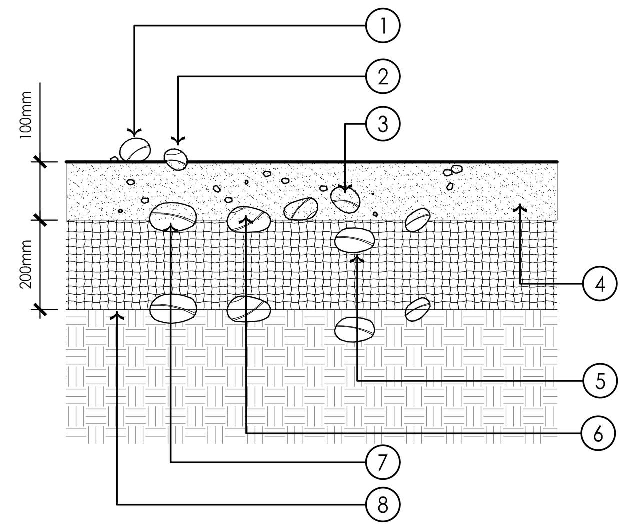
8 BARKMAN BRIDGEWOOD SLAB INSTALLATION
SCALE: 1:10



1 CAST-IN-PLACE CONCRETE RETAINING WALL (GRADE 30MPa) RUN W/ 15M @ 300 EW/EF
2 15mm VERTICAL EXPANSION JOINT TO BE ALIGNED WITH SIDES OF BENCH
3 50mm DIA. WEEPING HOLE CENTERED ON FLAT TOP SEATING WALL SECTIONS
4 BENCH, REFER TO SITE FURNISHING SCHEDULE TO BE CENTERED ON WALL
5 15mm EXPANSION JOINT
6 100mm DIA. PERFORATED DRAIN PIPE W/ FILTER SOCK
7 40mm DRAINAGE ROCK WRAPPED IN FILTER FABRIC

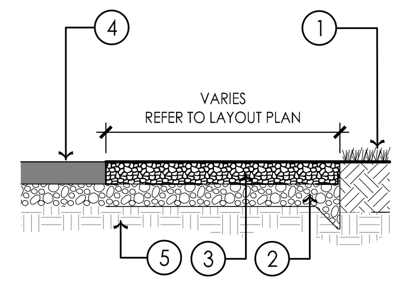
NOTES:
- 75mm COVER FOR CONCRETE FACE IN CONTACT WITH SOIL
- 50mm COVER FOR OTHER CONCRETE FACES (TYP.) U.N.O
- BENCH SEAT HEIGHT TO BE 450mm ABOVE FINISHED GRADE

9 CONCRETE SEATING WALL
SCALE: 1:40



1 SURFACE ROCK GREATER THAN 50mm MUST BE REMOVED
2 VISUAL ROCK GREATER THAN 50mm MUST BE REMOVED
3 EMBEDDED ROCK GREATER THAN 50mm MUST BE REMOVED
4 VOLUME OF ROCK IN TOPSOIL NOT TO EXCEED 20%
5 EMBEDDED ROCK MAY REMAIN
6 VISUAL ROCK WITH GREATER THAN 50% EMBEDDED AND NOT RISING MORE THAN 50mm ABOVE SURFACE MAY REMAIN
7 VISUAL ROCK WITH GREATER THAN 50% ABOVE SURFACE AND GREATER THAN 50mm MUST BE REMOVED
8 SCARIFY AND TILL EXISTING SUBSOIL TO A DEPTH OF 200mm

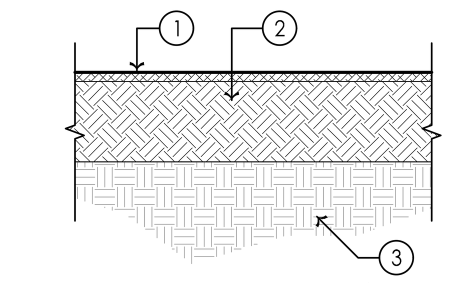
10 TOP SOIL/ SUBGRADE PREPARATION
SCALE: 1:10



1 ADJACENT PLANT BED OR LAWN
2 25mm Ø COMPACTED GRANULAR 100mm DEPTH COMPACTED TO 98% SPD
3 25mm Ø WASHED GRAVEL 100mm DEPTH COMPACTED TO 96% SPD.
4 ADJACENT HARDSCAPING
5 COMPACTED SUBGRADE

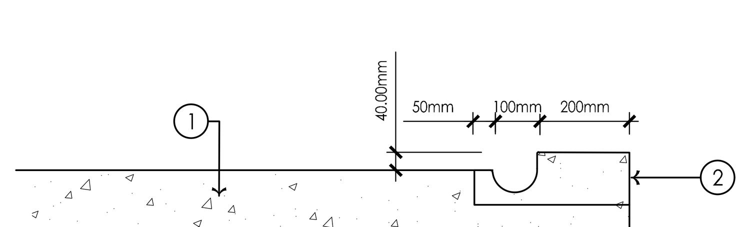
11 GRAVEL SURFACING
SCALE: 1:20

1 50mm DEPTH APPROVED SHREDDED WOOD MULCH
3 TOPSOIL DEPTH VARIES
5 UNDISTURBED SOIL



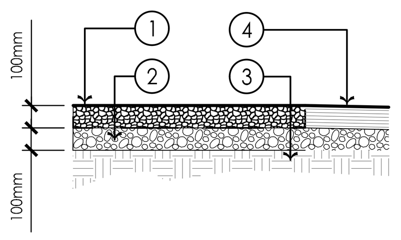
12 MULCH
SCALE: 1:25

1 CONCRETE STAIRS LANDING (REFER TO CAST IN PLACE CONCETE STAIRS WITH RAILING DETAIL)
2 CONCRETE BIKE WHEEL TROUGH

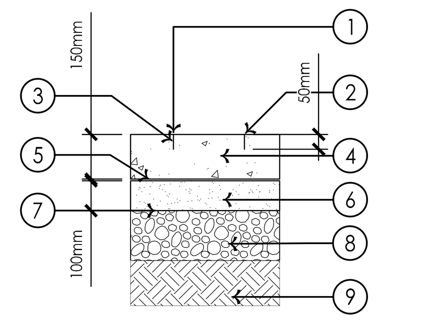


13 BIKE RAMP WHEELING CHANNEL
SCALE: 1:10

1 10mm Ø WASHED AGGREGATE, BINDED WITH ROMPEX PROFI-DEKO, 100mm DEPTH, COMPACTED TO 96% SPD. AGGREGATE TO BE CONTRASTING COLOR TO CONCRETE
2 25mm DIAMETER COMPACTED GRANULAR 100mm DEPTH COMPACTED TO 98& spd
3 COMPACTED SUBGRADE
4 ADJACENT HARDSURFACING (REFER TO LAYOUT PLAN)



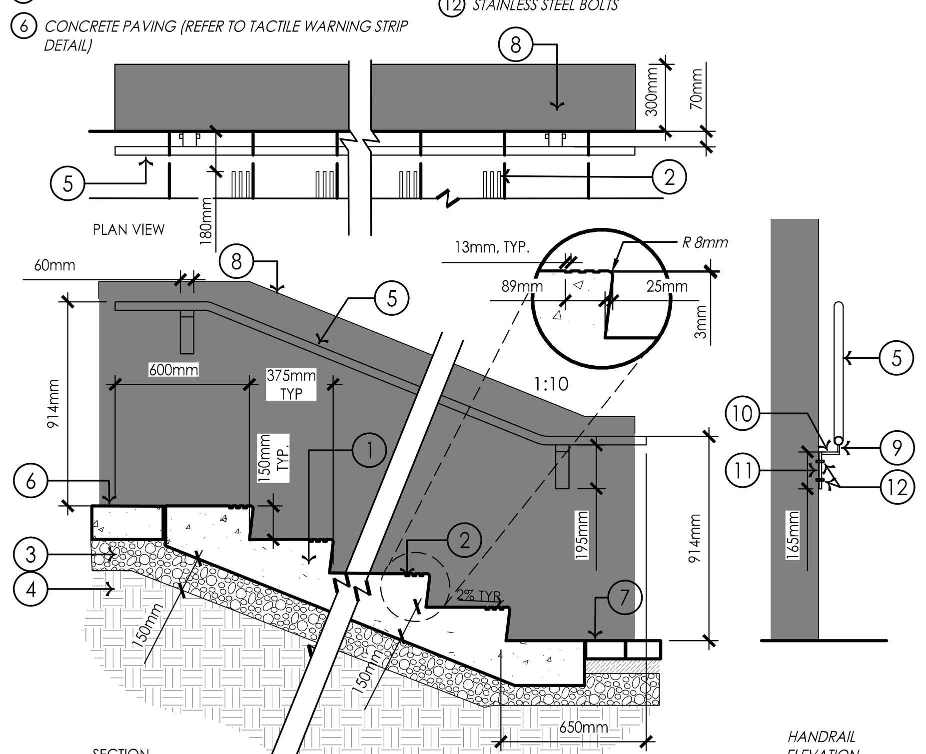
14 WASHED AGGREGATE SURFACING
SCALE: 1:20



1 FOAM BACKER ROD SIKAFLEX PRIMER ON SIDES OF JOINT SIKAFLEX 2C SL SEALANT
2 ENSURE MIN 50 COVER OVER REINFORCEMENT
3 6mm X 40mm SAWCUT
4 REINFORCED CONCRETE PAD
5 6 MIL. POLY VAPOUR BARRIER
6 100mm CRUSHED GRANULAR BASE
7 NON-WOVEN GEOTEXTILE (CAPABLE OF TRANSMITTING NOT LESS THAN 50 LITRES/SECONDS/METER2) (ASTMD-4491)
8 FREE DRAINING GRANULAR FILL
9 COMPACTED SUBGRADE

15 CONCRETE JOINT DETAIL
SCALE: 1:15

1 CAST IN PLACE CONCRETE STAIRS, REFER TO STRUCTURAL FOR REINFORCEMENT AND FOOTING DESIGN. REFER TO LAYOUT PLAN FOR NUMBER OF TREADS AND RISERS.
2 3mm DEPTH TACTILE WARNING STRIP, TYP.
3 150mm DEPTH COMPACTED GRANULAR BASE
4 COMPACTED SUBGRADE AS PER SPECS
5 40mm DIA. BRUSHED STAINLESS STEEL HANDRAIL
6 CONCRETE PAVING (REFER TO TACTILE WARNING STRIP DETAIL)
7 UNIT PAVER, REFER TO LANDSCAPE PLANS FOR DETAILS
8 300mm WIDE CAST IN PLACE CONCRETE RETAINING WALL, HEIGHT VARIES REFER TO GRADING PLAN
9 60x30x8 BRUSHED STAINLESS STEEL PLATE
10 60x80x12 BRUSHED STAINLESS STEEL PLATE
11 60x165x12 BRUSHED STAINLESS STEEL PLATE
12 STAINLESS STEEL BOLTS



16 CAST IN PLACE CONCRETE STAIRS WITH RAILING
SCALE: 1:20

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2024/09/27 9:18 AM By: Patel, Komal (Calgary)

ORIGINAL SHEET - ISO A0

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Stantec Architecture Ltd.
202-107 Main Street
Whitehorse, YT Y1A 2A7
Tel: (867) 633-2400
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Client/Project Logo

Keyplans

Notes

6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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Client/Project
Yukon University
Polaris Project

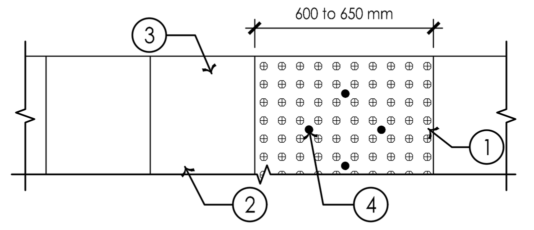
Title
DETAILS

Project No. 144214760
Scale
Revision
Drawing No. **L400**

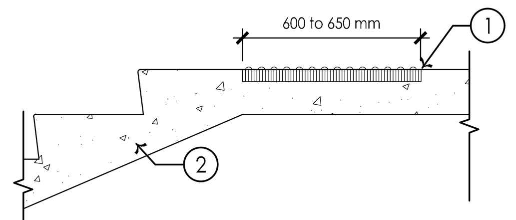
1 2 3 4 5 6 7

E

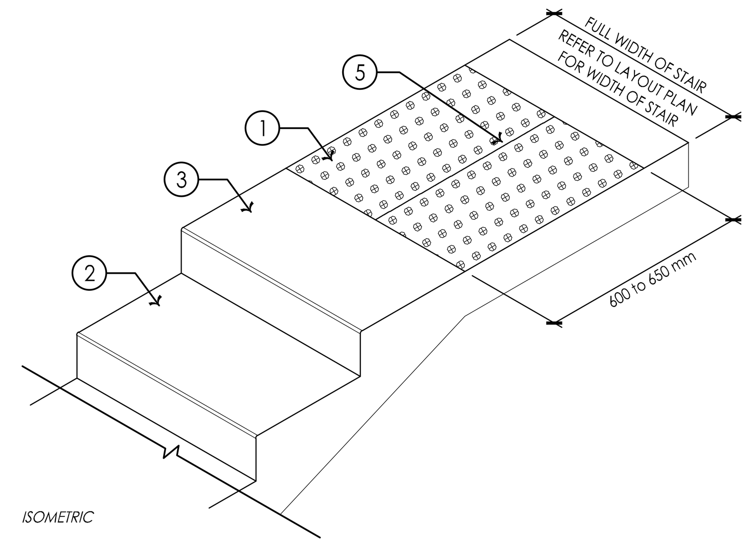
(1) CAST IN PLACE CAST IRON TACTILE WALKING SURFACE INDICATOR (TWSI) SOLID PLATE
(2) CONCRETE STAIR
(3) SET TACTILE WARNING STRIP BACK ONE TREAD DEPTH FROM TOP OF STAIR
(4) 1/2" PICK HOLES
(5) CAST IN QUIK LOK TO CONNECT ADJACENT PANELS, IF REQUIRED



PLAN



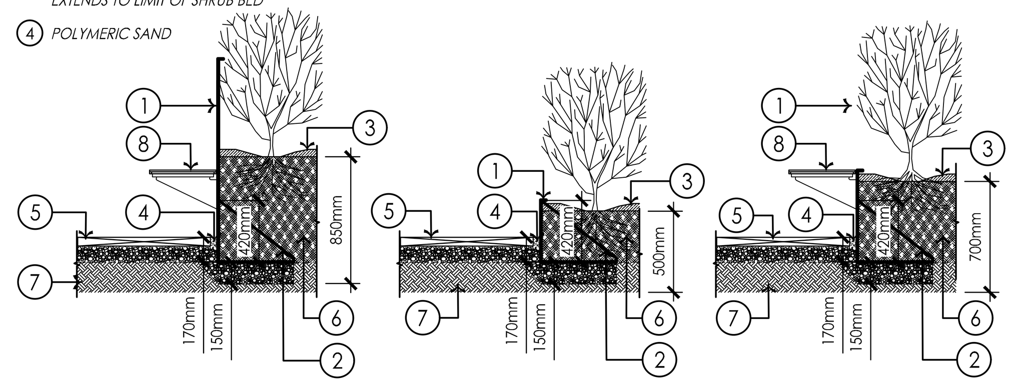
SECTION



ISOMETRIC

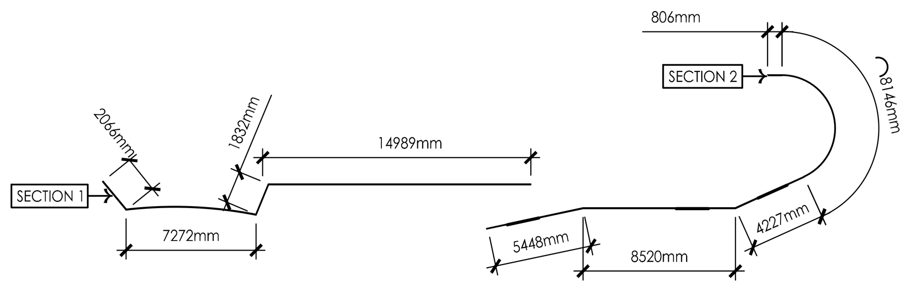
17 TACTILE WARNING STRIP AT LANDING
SCALE: 1:15

(1) STEEL WALL (HEIGHT VARIES REFER TO GRADING PLAN AND WALL DETAILS) FINAL POWERCOAT FINISH AND GAUGE TO SUIT APPLICATION TO BE DETERMINED BY FABRICATOR.
(2) STEEL WALL ANCHOR AFFIXED 420mm UP FROM BASE OF STEEL WALL
(3) 50mm APPROVED MULCH, STARTING FROM TRUNK FLARE EXTENDS TO LIMIT OF SHRUB BED
(4) POLYMERIC SAND
(5) BARKMAN BRIDGEWOOD SLAB
(6) TOPSOIL (DEPTH VARIES)
(7) COMPACTED SUBGRADE
(8) CANTILEVER MOUNTED BENCH (REFER TO LAYOUT PLAN) CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR BENCHES



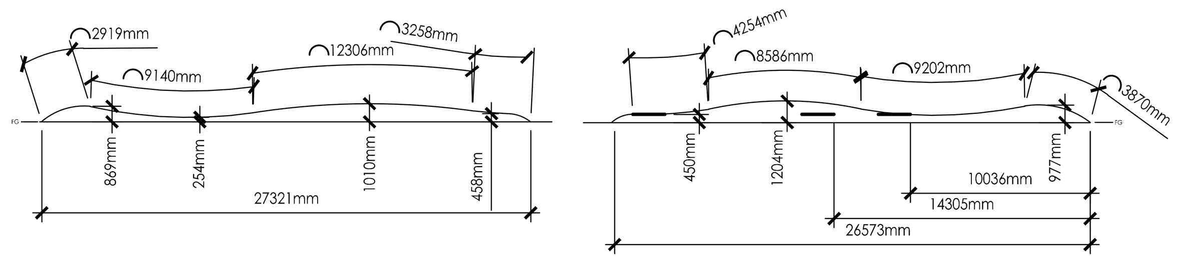
NOTE:
- DRAWING SHOWS VARIED HEIGHT OF STEEL WALL, REFER TO GRADING PLAN AND STEEL WALL DETAILS FOR HEIGHTS
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR STEEL WALLS AND BENCHES FOR APPROVAL
- CONCEPT ONLY TO ILLUSTRATE INTENT. FINAL SHOP DRAWINGS TO BE DETERMINED BY FABRICATOR.

18 STEEL WALL SECTIONS (HEIGHT VARIES)
SCALE: 1:30



PLAN VIEW

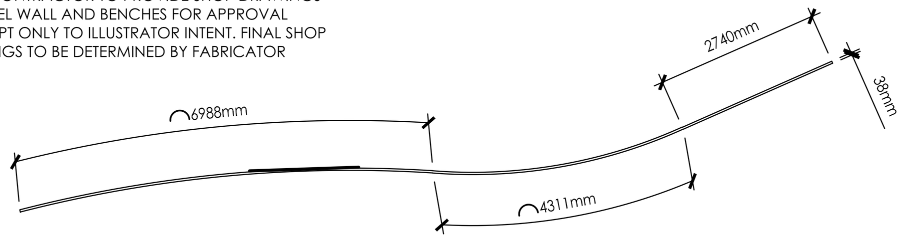
NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR STEEL WALLS AND BENCHES FOR APPROVAL CONCEPT ONLY TO ILLUSTRATE INTENT. FINAL SHOP DRAWINGS TO BE DETERMINED BY FABRICATOR.



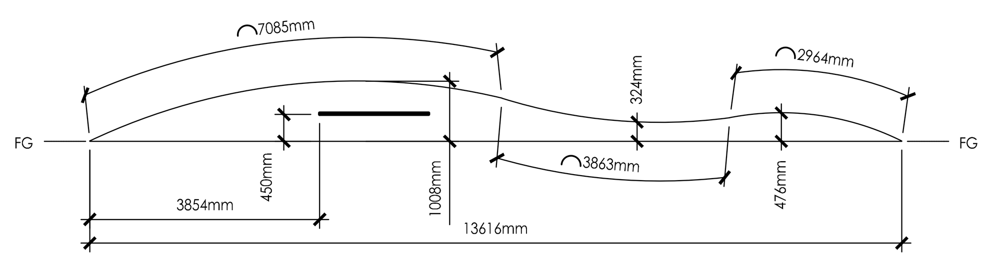
19 STEEL WALL A PLAN AND ELEVATION
SCALE: 1:250

D

NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR STEEL WALL AND BENCHES FOR APPROVAL CONCEPT ONLY TO ILLUSTRATOR INTENT. FINAL SHOP DRAWINGS TO BE DETERMINED BY FABRICATOR



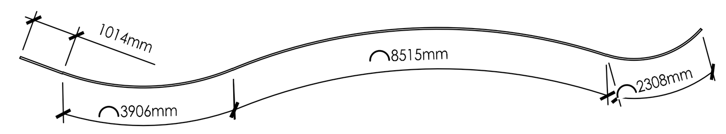
PLAN VIEW



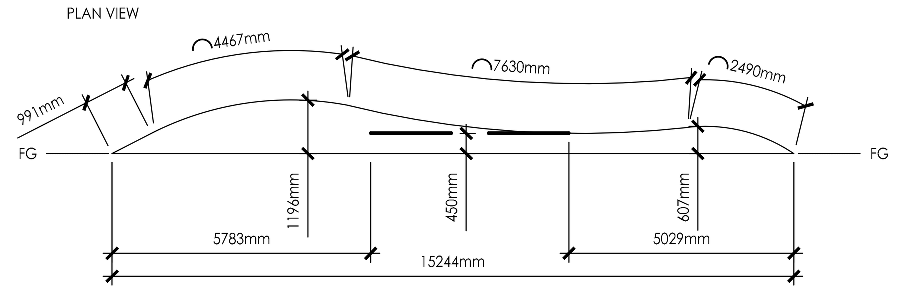
ELEVATION

20 STEEL WALL B PLAN AND ELEVATION
SCALE: 1:75

NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR STEEL WALLS AND BENCHES FOR APPROVAL
CONCEPT ONLY TO ILLUSTRATE INTENT. FINAL SHOP DRAWINGS TO BE DETERMINED BY FABRICATOR

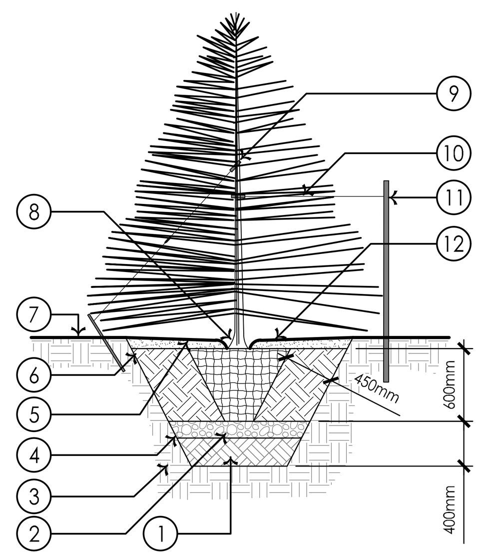


PLAN VIEW



ELEVATION

21 STEEL WALL C PLAN AND ELEVATION
SCALE: 1:100

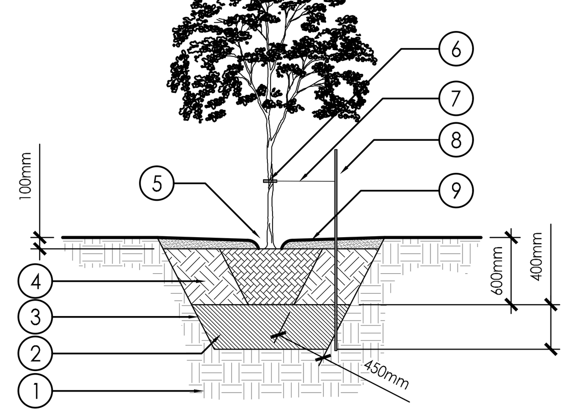


(1) COMPACTED CLAY BELOW ROOT BALL
(2) 150mm MINIMUM WASHED ROCK BELOW ROOT BALL WHEN PLANTED ON SITE WITH HEAVY SOILS
(3) SUB-SOIL
(4) SCARIFY SIDES OF TREE PIT
(5) SLOPE TOPSOIL FROM ROOT BALL TO EDGE OF HOLE TO FORM WELL
(6) TOPSOIL
(7) FINISHED GRADE
(8) TRUNK FLARE AT GRADE
(9) RUBBER STRAP TO PREVENT ANY CONTACT BETWEEN WIRE AND TREE
(10) 11 GUAGE GUY WIRE OR APPROVED ALTERNATIVE
(11) USE THREE 1800mm PAINTED T-BARS (OUTSIDE DRIPLINE)
(12) 75mm MULCH, STARTING 50mm FROM TRUNK FLARE EXTENDING TO LIMIT OF TREE PIT/WELL. MULCH NOT TO CONTACT TRUNK.

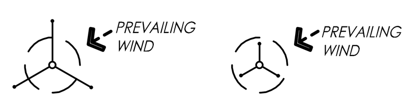
NOTES: - CHECK FOR GIRDLING ROOTS. ANY GIRDLING ROOTS SHOULD BE PRUNED TO PREVENT FUTURE GIRDLING. - PRUNE BROKEN AND FRAYED ROOT ENDS WITH SECATEURS. - HOLD TRUNK VERTICAL. BACKFILL AROUND ROOTS WITH TOPSOIL, CONTINUOUSLY PACKING THE SOIL UNTIL FIRM. - TREE SHOULD BE PLANTED AT THE SAME ORIGINAL GROWING DEPTH AS IN NUSERY. TRUNK FLARE SHOULD BE VISIBLE AT GRADE. - IF TREE IS IN A WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL/VERTICAL WIRES OF THE UPPER $\frac{1}{3}$ AS A MINIMUM. PULL BACK BURLAP TO THE SAME MINIMUM. - T-BARS SHOULD BE HAMMERED DOWN INTO SOLID FOOTING (minimum 400mm INTO SUBSOIL). - STAKING TO BE IN PLACE FOR A MAXIMUM OF ONE YEAR, WHEN REQUIRED. - USE RUBBER STRAPS AT END OF GUY WIRES TO PROTECT THE TREE AT POINT OF CONTACT. - PRUNE DEAD / DYING / DISEASED BRACHES TO MAINTAIN NATURAL FORM OF TREE

22 CONIFEROUS TREE PLANTING
SCALE: 1:40

C



(1) EXISTING SUBGRADE
(2) 400mm DEEP COMPACTED CLAY BELOW ROOTBALL
(3) SCARIFY SIDES OF TREE PIT
(4) TOP SOIL, REFER TO TOP SOIL SPEC
(5) TRUNK FLARE AT GRADE
(6) RUBBER STRAP TO PREVENT ANY CONTACT BETWEEN WIRE AND TREE
(7) 11 GAUGE GUY WIRE OR APPROVED ALTERNATIVE
(8) USE TWO 1800mm PAINTED T-BARS
(9) 75mm DEEP APPROVED MULCH, STARTING 50mm FROM TRUNK FLARE EXTENDING A MINIMUM OUT TO THE LIMIT OF TREE PIT / WELL



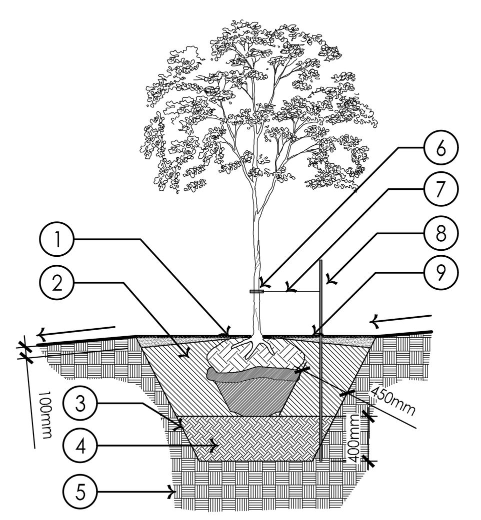
STAKING PLAN: GUYING STAKING PLAN: T-BAR

NOTES:
- REFER TO PLANTING NOTES WITHIN THIS SET OF PLANS AND ENSURE PLANTING METHODOLOGY MEETS CITY OF WHITEHORSE STANDARDS.
- PRUNE AWAY ANY GIRDLING ROOTS.
- PRUNE BROKEN AND FRAYED ROOT ENDS WITH SECATEURS.
- HOLD TRUNK VERTICAL. BACKFILL AROUND ROOTS WITH TOPSOIL, CONTINUOUSLY PACKING THE SOIL UNTIL FIRM.
- TREE SHOULD BE PLANTED THE SAME ORIGINAL GROWING DEPTH AS IN NURSERY.
- TRUNK FLARE SHOULD BE VISIBLE AT GRADE.
- IF TREE IS IN A WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL/VERTICAL WIRES OF THE UPPER $\frac{1}{3}$ AS A MINIMUM. PULL BACK BURLAP TO THE SAME MINIMUM.
- T-BARS SHOULD BE HAMMERED DOWN INTO SOLID FOOTING (MINIMUM 400mm INTO SUBSOIL).
- STAKING TO BE IN PLACE FOR A MAXIMUM OF ONE YEAR, WHEN REQUIRED.
- USE RUBBER STRAPS (TO PROTECT THE TREE) AT POINT OF CONTACT WITH TRUNK.
- PRUNE DEAD / DYING / DISEASED BRANCHES TO MAINTAIN NATURAL FORM OF TREE.

B

23 DECIDUOUS TREE PLANTING
SCALE: 1:40

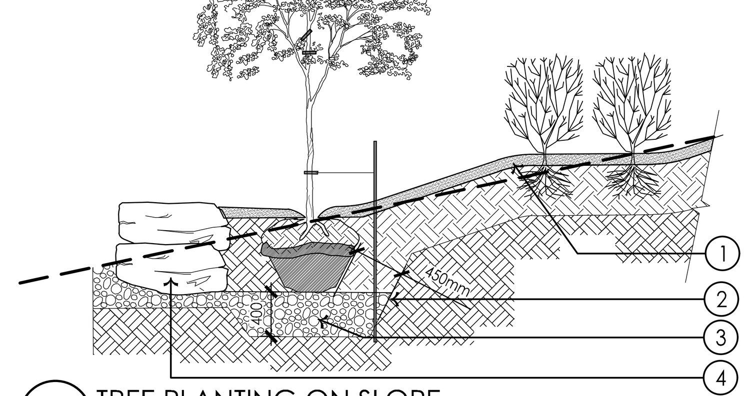
(1) TRUNK FLARE AT GRADE
(2) TOP SOIL, REFER TO TOP SOIL SPEC
(3) SCARIFY SIDES OF TREE PIT
(4) COMPACTED CLAY BELOW ROOTBALL
(5) SUB-SOIL
(6) RUBBER STRAP TO PREVENT ANY CONTACT BETWEEN WIRE AND TREE
(7) 11 GAUGE GUY WIRE OR APPROVED ALTERNATIVE
(8) USE THREE 1800mm PAINTED T-BARS
(9) 50mm APPROVED MULCH, STARTING 50mm FROM TRUNK FLARE EXTENDING TO LIMIT OF TREE PIT / WELL

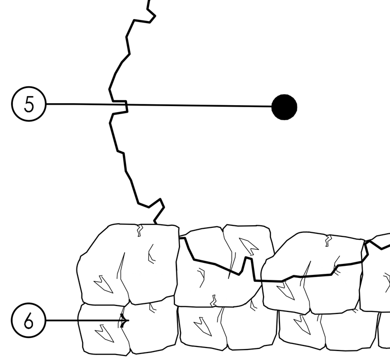


NOTES:

1. PRUNE AWAY ANY GIRDLING ROOTS.
2. PRUNE BROKEN AND FRAYED ROOT ENDS WITH SECATEURS.
3. HOLD TRUNK VERTICAL. BACKFILL AROUND ROOTS WITH TOPSOIL, CONTINUOUSLY PACKING THE SOIL UNTIL FIRM. DO NOT ALLOW AIR POCKETS TO FORM.
4. TREE SHOULD BE PLANTED 75mm - 100mm BELOW GROUND LEVEL.
5. IF TREE IS IN A WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL/VERTICAL WIRES OF THE UPPER $\frac{1}{3}$ AS A MINIMUM. PULL BACK BURLAP TO THE SAME MINIMUM.
6. T-BARS SHOULD BE HAMMERED DOWN INTO SOLID FOOTING (MINIMUM 400mm INTO SUBSOIL).
7. STAKING TO BE IN PLACE FOR A MAXIMUM OF ONE YEAR, WHEN REQUIRED.
8. STAKE BEYOND EDGE OF ROOT BALL.
9. USE RUBBER STRAPS (TO PROTECT THE TREE) AT POINT OF CONTACT WITH TRUNK.
10. PRUNE DEAD / DYING / DISEASED BRANCHES TO MAINTAIN NATURAL FORM OF TREE
11. ALL DIMENSIONS IN mm.

24 + 40MM CAL. DECIDUOUS TREE PLANTING: SLOPES
SCALE: N.T.S





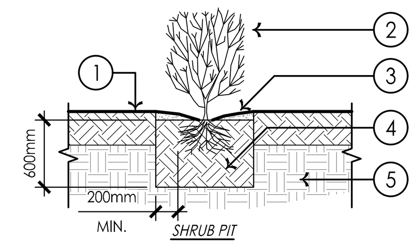
(1) DOWNHILL SIDE OF SHRUB PIT TO BE BUILT UP WITH COMPACTED SUB-GRADE TO FORM LEVEL PLANTING PIT. BLEND GRADE INTO SLOPE ON SIDES OF PIT. MAX 30%
(2) SCARIFY SIDES OF TREE PIT
(3) COMPACTED CLAY BELOW ROOT BALL MIN. 400mm
(4) USE FLAT ROCK TO BUILD UP LEVEL PLANTING PLANTING PIT FOR TREES ON DOWNHILL SIDE OF TREE PIT. BLEND GRADE INTO SLOPE ON SIDES OF PIT. MAX 30%
(5) PROPOSED TREE
(6) STACKED FLAT ROCK TO CREATE LEVEL PLANTING PIT FOR TREES

A

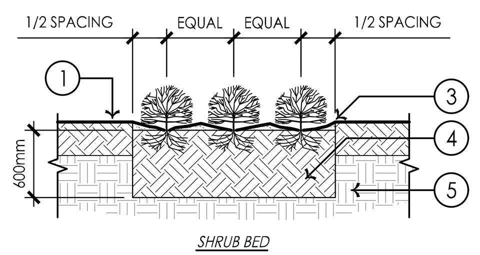
25 TREE PLANTING ON SLOPE
SCALE: 1:40

(1) FINISHED GRADE
(2) PRUNE DEAD, DYING AND DISEASED BRANCHES WHILE RETAINING NATURAL PLANT SHAPE
(3) 75mm APPROVED MULCH, STARTING 50mm FROM TRUNK FLARE EXTENDING TO LIMIT OF SHRUB PIT/BED
(4) 600mm DEPTH TOPSOIL
(5) UNDISTURBED SOIL

NOTES:
LOOSEN ROOTBALL FROM POT/CONTAINER.
CHECK FOR GIRDLING ROOTS. ANY GIRDLING ROOTS SHOULD BE PRUNED TO PREVENT FUTURE GIRDLING.
THIS DETAIL WILL BE USED FOR ALL CONTAINERIZED DECIDUOUS OR CONIFEROUS SHRUBS. PLANT SHRUB AT ORIGINAL DEPTH AS GROWN IN NURSERY. ROOT FLARE SHOULD BE VISIBLE AT GRADE.



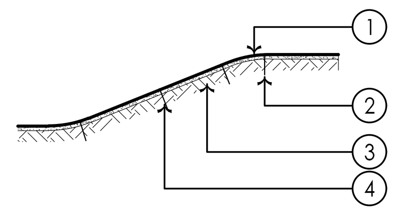
SHRUB PIT



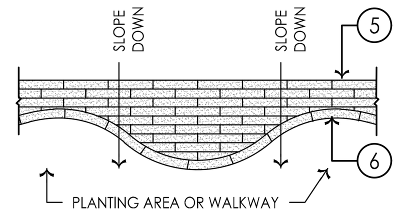
SHRUB BED

26 SHRUB PLANTING
SCALE: 1:40

CROSS-SECTION OF 3H:1V AND LESS SLOPES



PLAN VIEW OF SOD LAYOUT AND EDGING



(1) SOD TO BE LAID LENGTHWISE ACROSS FACE OF SLOPE
(2) WOODEN PEGS (AS NECESSARY)
(3) REFER TO SLOPE CONFIGURATION DETAIL
(4) EACH UPHILL END OF SOD TO BE PEGGED WITH TWO 25 x 25 x 230mm WOODEN PEGS, DRIVEN IN BELOW TURF LEVEL, (TO BE REMOVED PRIOR TO FAC)
(5) SOD TO BE LAID CLOSELY PACKED TOGETHER, JOINTS IN ADJACENT ROWS SHALL BE STAGGERED
(6) FULL ROW OF SOD TO BE USED ON PERIMETER OF SODDED AREA

27 SOD INSTALLATION
SCALE: 1:40

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2024/09/27 9:18 AM By: Patel, Komal (Calgary)
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Keyplans

Notes

6	RE-ISSUED FOR TENDER	KP	MW	2024.09.30
5	ISSUED FOR TENDER	KP	MW	2024.05.06
4	ISSUED FOR 99% SUBMISSION	KP	MW	2024.03.15
3	ISSUED FOR 90% SUBMISSION	KP	MW	2024.01.09
2	ISSUED FOR 75% SUBMISSION	KP	MW	2023.01.23
1	ISSUED FOR DESIGN DEVELOPMENT	KP	MW	2022.12.16
Issued & Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/09/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
Yukon University
Polaris Project

Title
DETAILS

Project No. 144214760

Scale

Revision

Drawing No.
L401

28 PRECEDENT - SANDBLAST PATTERNS IN CONCRETE
SCALE: NTS

29 PRECEDENT - WOOD SHED
SCALE: NTS

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Client/Project
Yukon University
Polaris Project

Title
DETAILS

Project No.
144214760

Scale

Revision

Drawing No.
L402

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