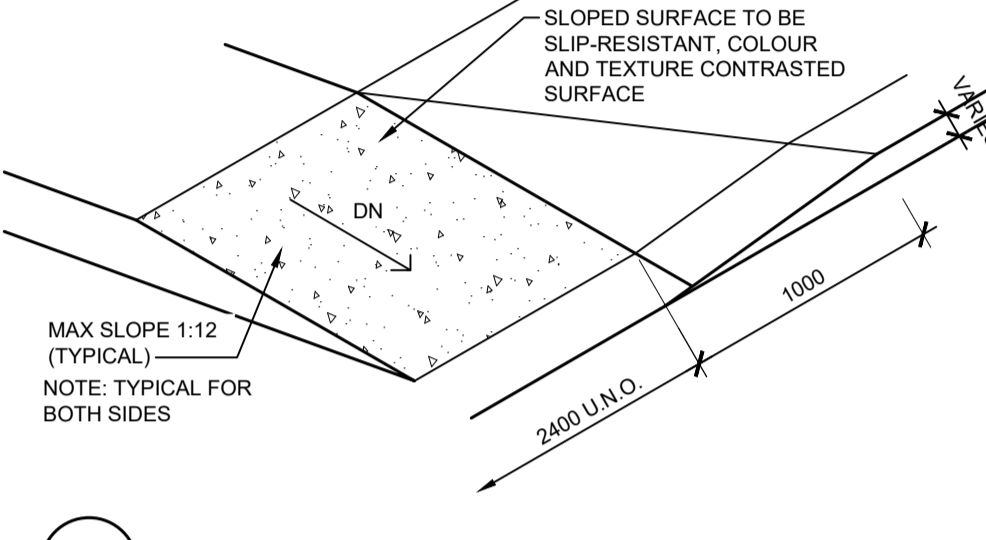
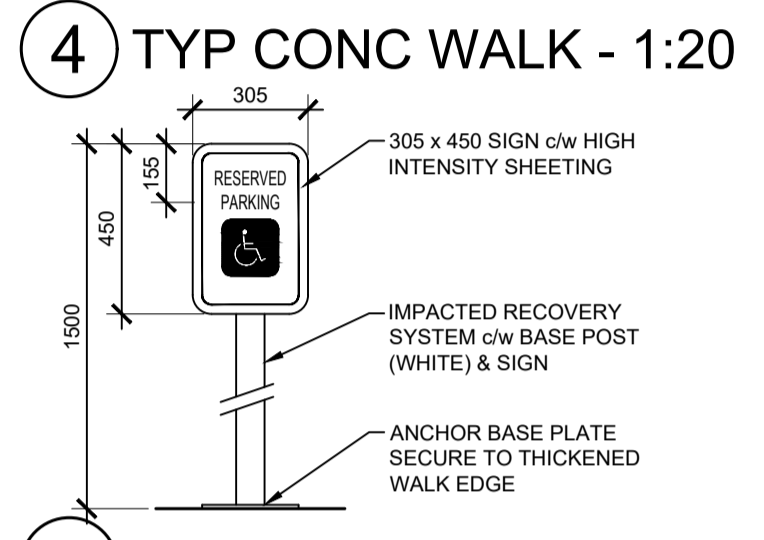
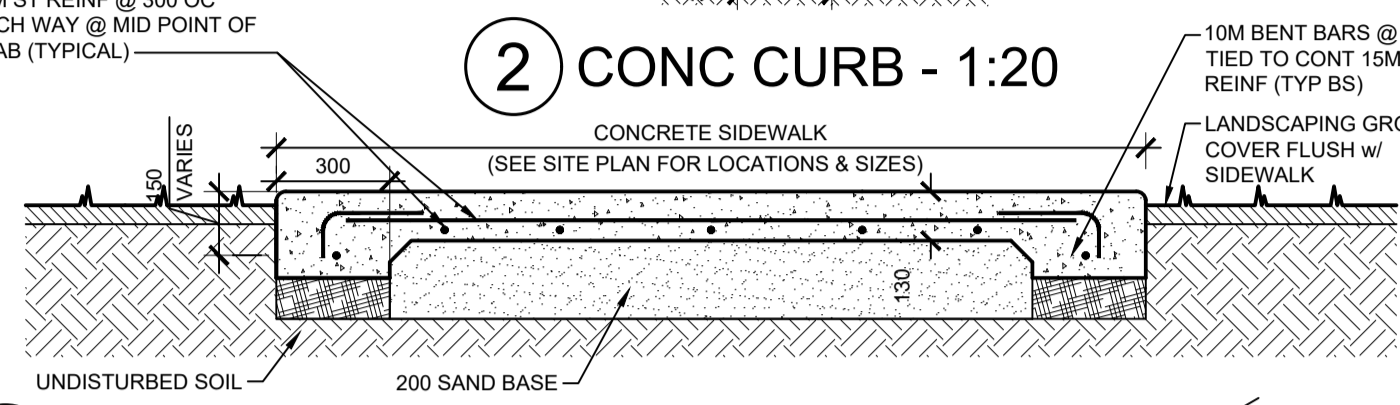
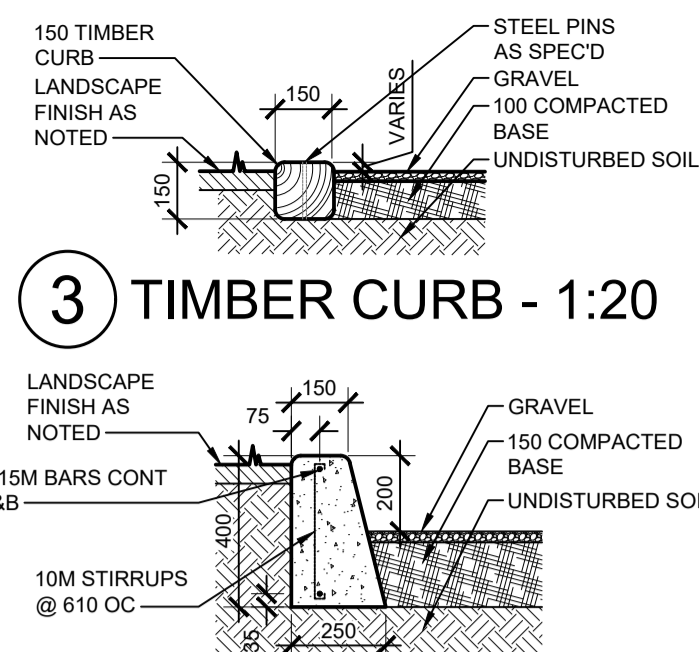


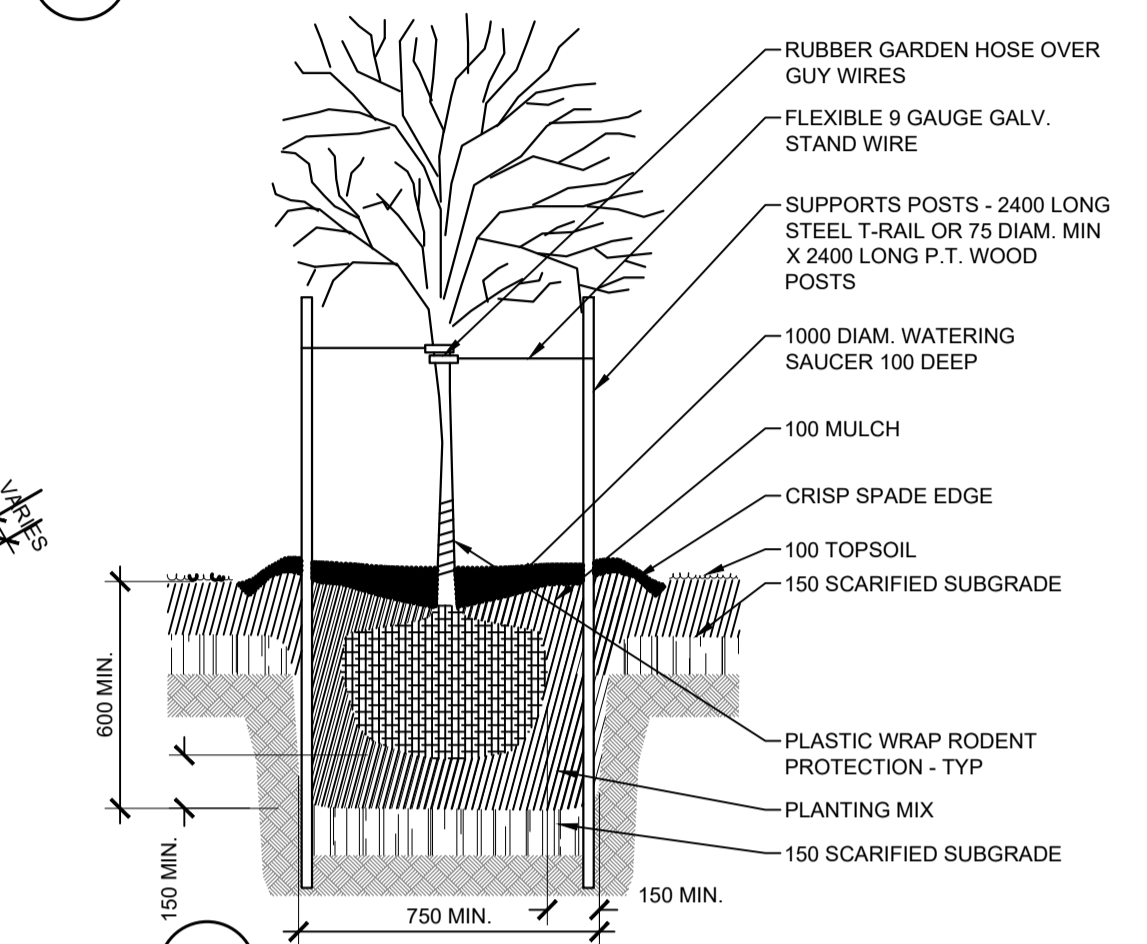
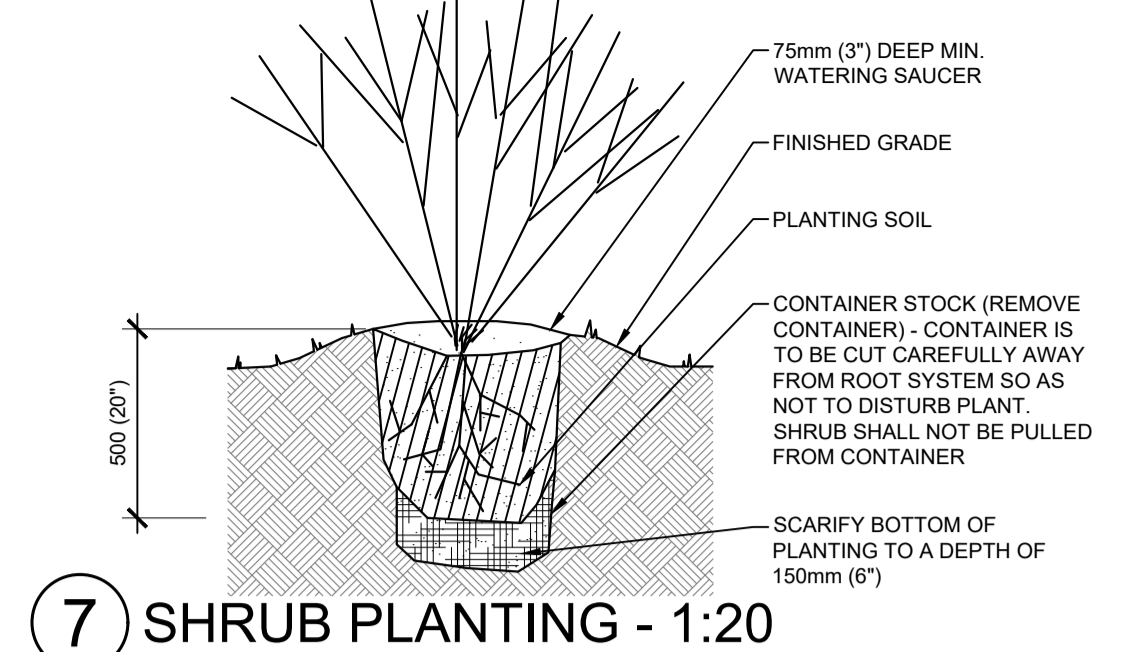
LIST OF ABBREVIATIONS

ACT	- ACOUSTICAL CEILING TILE	JST	- JOIST	T & G	- TONGUE AND GROOVE
ADJ	- ADJUSTABLE	M	- METRE	TEX	- TEXTURED
AFF	- ABOVE FINISHED FLOOR	MANUF	- MANUFACTURED	T/O	- TOP OF
ALUM	- ALUMINUM	MAT	- MATERIAL	TYP	- TYPICAL
BD	- BOARD	MAX	- MAXIMUM	UNO	- UNLESS NOTED OTHERWISE
BHD	- BULKHEAD	MECH	- MECHANICAL	UIS	- UNDERSIDE OF
BLDG	- BUILDING	MIN	- MINIMUM	VB	- VAPOUR BARRIER
BLK'G	- BLOCKING	MTL	- METAL	VERT	- VERTICAL
BS	- BOTH SIDES	M/W	- MILLWORK	VIN	- VINYL
BOT	- BOTTOM	N/A	- NOT APPLICABLE	WB	- WALLBOARD
BTWN	- BETWEEN	NIC	- NOT IN CONTRACT	WC	- WALLCOVERING
BU	- BUILT UP	N/S	- NOT TO SCALE	WD	- WOOD
C/C	- CENTRE TO CENTRE	NO	- NUMBER	W	- WITH
CJ	- CONTROL JOINT	OC	- ON CENTRE	Ø	- DIAMETER
CLAD	- CLADDING	OHD	- OVERHEAD	℄	- CENTRE LINE
CLNG	- CEILING	O/H	- OVERHANG	@	- AT
COL	- COLUMN	O/S	- OUTSIDE EDGE		
CONC	- CONCRETE	OTO	- OUT TO OUT		
CONT	- CONTINUOUS	OW/WJ	- OPEN WEB WOOD JOIST		
CNST	- CONSTRUCTION	PF	- PREFINISHED		
C/SPACE	- CRAWLSPACE	PERF	- PERFORATED		
C/W	- COMPLETE WITH	P.LAM	- PLASTIC LAMINATE		
C.W.	- CURTAIN WALL	PLY	- PLYWOOD		
DEMO	- DEMOLISH	PR	- PAIR		
DEM	- DIMENSION	PS	- PRESSED STEEL		
DN	- DOWN	PT	- PRESSURE TREATED		
DR	- DOOR	RAD	- RADIATION CABINET		
DTL	- DETAIL	R. TILE	- RUBBER TILE FLOORING		
DW	- DRYWALL	RB	- RUBBER BASE		
DWG	- DRAWING	RCP	- REFLECTED CEILING PLAN		
EA	- EACH	R	- RADIUS		
EAC	- ELECTRICAL	REL	- RELOCATED		
EL	- ELEVATION	REQD	- REQUIRED		
ENG	- ENGINEERED	RM	- ROOM		
EX	- EXISTING	RO	- ROUGH OPENING		
EXT	- EXTERIOR	RWL	- RAIN WATER LEADER		
EQ	- EQUAL	SCW	- SOLID CORE DOOR		
F/A	- FIRE ALARM	SCHED	- SCHEDULED		
F/D	- FLOOR DRAIN	SDG	- SEALED DOUBLE GLAZING		
FDN	- FOUNDATION	SHTG	- SHEATHING		
FIN	- FINISH	SHT V	- SHEET VINYL		
FLR	- FLOOR	SIM	- SIMILAR		
FLG	- FLASHING	SM	- SQUARE METRE		
FRR	- FIRE RESISTANCE RATING	S PAD	- SPLASH PAD		
GA	- GAUGE	SPEC'D	- SPECIFIED		
GALV	- GALVANIZED	SQ	- SQUARE		
GL	- GLAZING	ST	- STEEL		
HM	- HOLLOW METAL	STRAP	- STRAPPING		
HMI	- HOLLOW METAL INSULATED	STRUCT	- STRUCTURAL		
HOR	- HORIZONTAL	STUC	- STUCCO		
HSS	- HOLLOW STRUCTURAL SECTION	SUSP	- SUSPENDED		
HT	- HEIGHT	T & B	- TOP AND BOTTOM		
INSUL	- INSULATION				

T & G	- TONGUE AND GROOVE
TEX	- TEXTURED
T/O	- TOP OF
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
UIS	- UNDERSIDE OF
VB	- VAPOUR BARRIER
VERT	- VERTICAL
VIN	- VINYL
WB	- WALLBOARD
WC	- WALLCOVERING
WD	- WOOD
W	- WITH
Ø	- DIAMETER
℄	- CENTRE LINE
@	- AT



6 SIDEWALK SECTION - 1:20



8 TREE PLANTING - 1:20

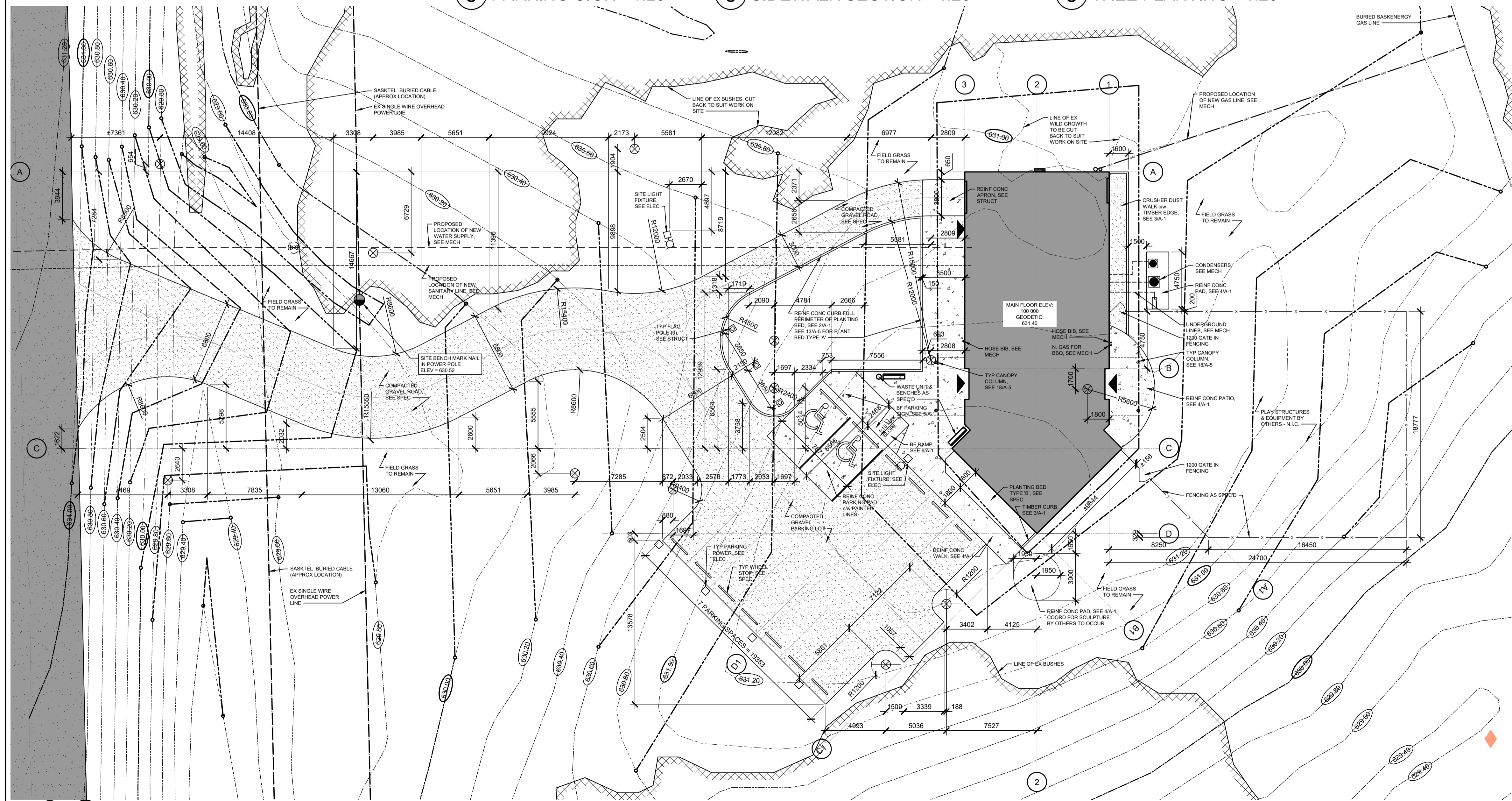
PLANTING SCHEDULE

EXISTING TREES TO REMAIN	T-1	PATMORE GREEN ASH
1 JUNIPER SHRUB	T-2	COLORADO SPRUCE
2 POTENTILLA	T-3	OKANESE POPLAR
3 GOOSE BERRY	T-4	CHOKECHERRY
4 BUFFALO BERRY	T-5	HIGHBUSH CRANBERRY
5 COBAL HYPERICUM	T-6	SILVERBERRY WOLF WILLOW
6 DWARF MOUNTAIN PINE		
7 PASTURE SAGE		
8 COMMON SAGE		
9 RUSSIAN SAGE		
10 WOOD SAGE		
11 PURPLE CORNFLOWER		
12 NORTHLINE SASKATOON		

CONTOUR LEGEND

EX MAJOR CONTOUR TO REMAIN	EX MINOR CONTOUR TO REMAIN
NEW CONTOUR GRADE	DEMO CONTOUR
CONNECTION POINT	RADIUS POINT

SEE 13/A-5 FOR PLANTING BED TYPE 'A'
SEE 14/A-5 FOR PLANTING BED TYPE 'B'



1 SITE PLAN - 1:200

LIST OF DRAWINGS

ARCHITECTURAL	
A-1	LIST OF DRAWINGS
A-2	FLOOR PLAN
A-3	CRAWLSPACE PLAN
A-4	EXTERIOR ELEVATIONS
A-5	SECTION DETAILS
A-6	DOOR AND WINDOW DETAILS
A-7	MILLWORK DETAILS
A-8	INTERIOR ELEVATIONS
STRUCTURAL	
S0.0	3D VIEWS
S0.1	TYPICAL DETAILS
S2.1	PLING PLAN
S2.2	MAIN FLOOR PLAN
S2.3	PLAN @ INTERIOR BEARING WALLS & SILL LEVEL
S2.4	ROOF PLAN
S3.1	BUILDING SECTIONS
S4.1	CONNECTION DETAILS
S4.2	FOUNDATION SECTIONS
S4.3	ROOF SECTIONS
S4.4	CANOPY DETAILS
MECHANICAL	
M-1	MECHANICAL EQUIPMENT SCHEDULE AND SITE PLAN
M-2	CRAWLSPACE PLAN PLUMBING
M-3	MAIN FLOOR PLAN PLUMBING
M-4	CRAWLSPACE PLAN HEATING, COOLING AND VENTILATION
M-5	MAIN FLOOR PLAN HEATING, COOLING AND VENTILATION
M-6	MECHANICAL ROOM PLANS
ELECTRICAL	
E-1	SITE PLAN AND SYMBOL LEGEND
E-2	CRAWLSPACE BUILDING SYSTEMS AND LIGHTING PLANS
E-3	LIGHTING PLAN
E-4	BUILDING SYSTEMS PLAN
E-5	SECURITY SYSTEMS PLAN
E-6	MAIN SERVICE SCHEMATIC AND ADMINISTRATIVE DATA AND VOICE CABLING SYSTEM SCHEMATIC
E-7	ACCESS CONTROL SYSTEM DOOR DETAILS

KREATE
 200 - 2300 DEWDNEY AVENUE
 REGINA, SASKATCHEWAN
 S4R 1H5
 PH: 306.585.2400
 EM: office@kreate-arch.com
 WEB: www.kreate-arch.com

BBK STRUCTURAL ENGINEERS
 3611 PACIFIC STREET • REGINA • SK • S4S 0W8
 TEL: 306.366.8833 • FAX: 306.366.8834

HDA
 Mechanical Engineering Consultants
 2334 8th Avenue Regina, SK S4R 1G3
 P: 306.525.9815 E: hda@hdaeng.com

ALFA ENGINEERING LTD.
 Consulting Electrical Engineers
 2909 SASKATCHEWAN DRIVE, Regina, SK, S4T 1H4
 Phone (306) 352-7989
 Fax (306) 359-1808

1	ISSUE FOR BID	18 JUL 24
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CLIENT INFORMATION:

OKANESE FIRST NATION I.R. NO. 82
 P.O. BOX 759
 BALCARRES, SASKATCHEWAN
 SOG 0C0

PROJECT TITLE:

PROPOSED CONSTRUCTION
 AHSOR HEADSTART FACILITY
 BALCARRES, SASKATCHEWAN

DRAWING TITLE:

LIST OF DRAWINGS
 LIST OF ABBREVIATIONS
 SITE PLAN
 SITE DETAILS

DRAWN BY: KD	CHECKED BY: KD	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	DRAWING NO:	
22-117	A-1	

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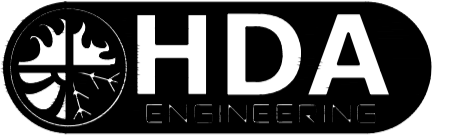


200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4R 1H6
PH: 306.585.2400
EM: office@kreate-arch.com
WEB: www.kreate-arch.com

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BBK
STRUCTURAL ENGINEERS
3613 PACIFIC STREET • REGINA • SK • S4S 0W6
TEL: 306.585.8833 • FAX: 306.585.8833 • EMAIL: info@bbk-engineers.com



HDA
MECHANICAL ENGINEERING CONSULTANTS
2334 8th Avenue Regina, SK S4R 1G3
P: 306.525.9815 E: hda@hdaeng.com



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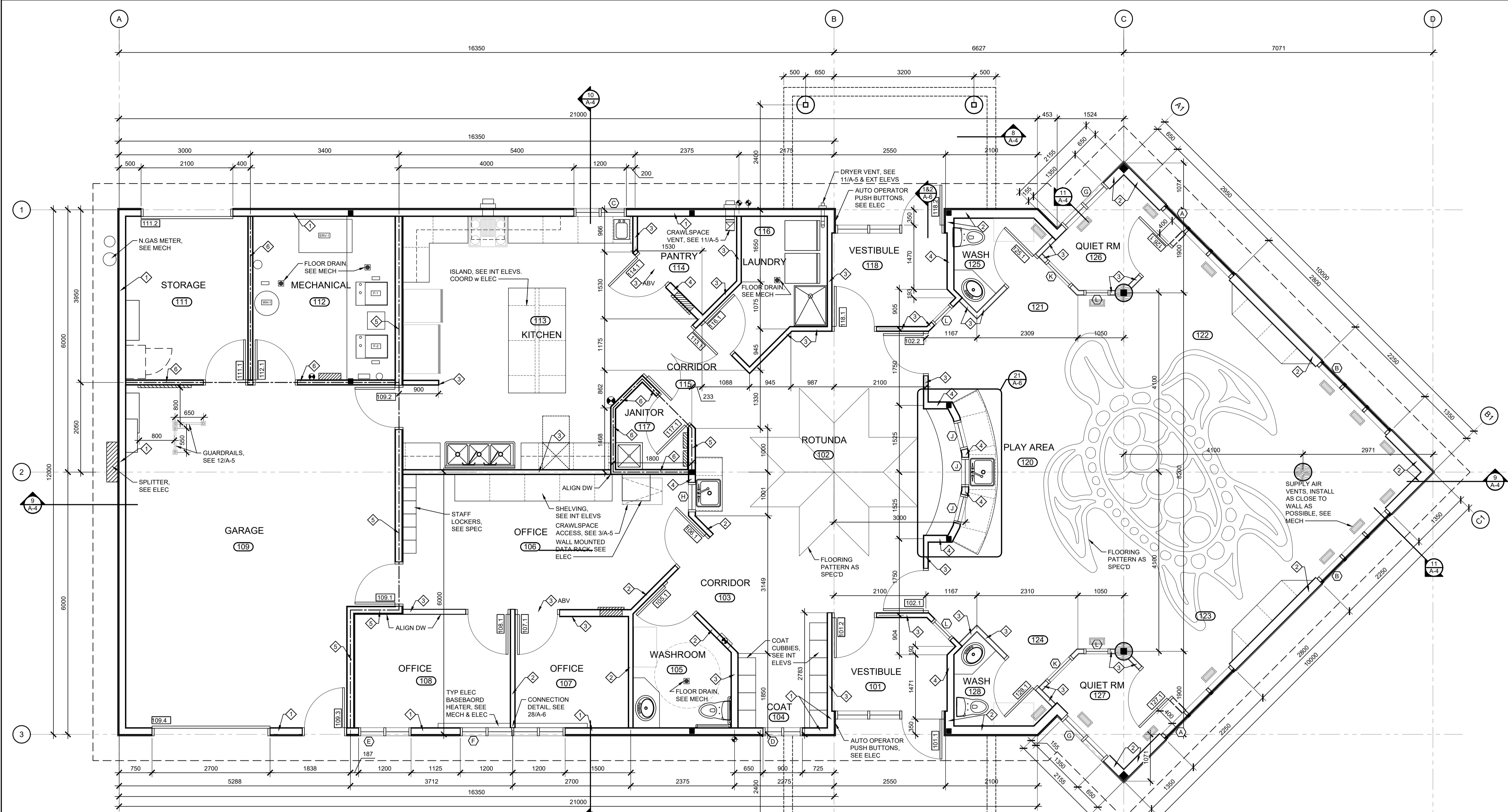
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DRAWING TITLE:
FLOOR PLAN
PARTITION FINISH SCHEDULES
ROOM FINISH SCHEDULE

DRAWN BY: SHK CHECKED BY: KD APPROVED:
SCALE: AS SHOWN DATE: 18 JUL 24 DATE:
FILE NO: 22-117 DRAWING NO: A-2
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1 FLOOR PLAN - 1:50
FIRE RATED PARTITION - REFER TO PARTITION SCHED

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALLS				CLNG	HEIGHT (mm A.F.F.)	REMARKS
				NORTH	EAST	SOUTH	WEST			
101	VESTIBULE	SHT-V	R	DW	DW	DW	DW	ACT	2450	
102	ROTUNDA	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	SKYLIGHT
103	CORRIDOR	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
104	COAT	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
105	WASHROOM	SHT-V	R	DW	DW	DW	DW	ACT	2450	
106	OFFICE	SHT-V	R	DW	DW	DW	DW	ACT	2450	
107	OFFICE	SHT-V	R	DW	DW	DW	DW	ACT	2450	
108	OFFICE	SHT-V	R	DW	DW	DW	DW	ACT	2450	
109	GARAGE	CONC	R	DW	DW	DW	DW	DW	U/S STRUCT	
111	STORAGE	CONC	R	DW	DW	DW	DW	DW	U/S STRUCT	
112	MECHANICAL	CONC/SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
113	KITCHEN	SHT-V	R	DW	DW	DW	DW	ACT	2450	
114	PANTRY	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
115	CORRIDOR	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
116	LAUNDRY	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
117	JANITOR	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT	
118	VESTIBULE	SHT-V	R	DW	DW	DW	DW	ACT	2450	
120	PLAYAREA	SHT-V	R	DW	DW	DW	DW	DW	U/S STRUCT *	PF MTL INTERIOR ROOFING - SEE INT ELEVS, SKYLIGHT
121	CORRIDOR	SHT-V	R	DW	DW	--	DW	PF MTL	2554	
122	PLAYAREA	SHT-V	R	DW	DW	--	--	DW	U/S STRUCT	
123	PLAYAREA	SHT-V	R	--	DW	DW	DW	DW	U/S STRUCT	

WALL SCHEDULE

<ul style="list-style-type: none"> EXTERIOR WALL CONSTRUCTION CLADDING AS SPEC'D BUILDING PAPER 13 PLY SHEATHING 38x140 WD STUDS - SEE STRUCT R-20 BATT INSUL FILL 6mil POLY VAPOUR BARRIER 13 DW 	<ul style="list-style-type: none"> EXTERIOR WALL CONSTRUCTION PLANK SIDING BUILDING PAPER 13 PLY SHEATHING 38x184 WD STUDS - SEE STRUCT R-28 BATT INSUL FILL 6mil POLY VAPOUR BARRIER 13 DW
---	---

PARTITION SCHEDULE

<ul style="list-style-type: none"> TYPICAL INTERIOR PARTITION 13 DW BOTH SIDES 38x140mm WD STUDS SPACED 600mm O.C. MAX. MINERAL WOOL INSUL FILL 13 MTL FURRING CHANNEL @ 610mm O.C. HORIZ. 1-LAYER 16 TYPE 'X' DW CARRY FROM FLOOR TO U/S OF DW SEAL ALL PENETRATIONS THROUGH WALL FOR FIRE AND ACOUSTIC SEPARATION. 	<ul style="list-style-type: none"> RATED PARTITION - 1HR. (ULC DES U305 - 51 STC) 1-LAYER 16 TYPE 'X' DW 38x140mm WD STUDS SPACED 406mm O.C. MAX. MINERAL WOOL INSUL FILL 13 MTL FURRING CHANNEL @ 610mm O.C. HORIZ. 1-LAYER 16 TYPE 'X' DW CARRY FROM FLOOR TO U/S OF DW SEAL ALL PENETRATIONS THROUGH WALL FOR FIRE AND ACOUSTIC SEPARATION
<ul style="list-style-type: none"> PLUMBING PARTITION 13 DW BOTH SIDES 38x140mm WD STUDS SPACED 600mm O.C. MAX. BATT INSUL FILL FOR SOUND SEPARATION CARRY FROM FLOOR TO U/S OF DW SEAL ALL PENETRATIONS THROUGH WALL FOR ACOUSTIC SEPARATION. 	<ul style="list-style-type: none"> RATED PARTITION - 1HR. (ULC DES U305 - 32 STC) 1-LAYER 16 TYPE 'X' DW 38x89mm WD STUDS SPACED 406mm O.C. MAX. MINERAL WOOL INSUL FILL 1-LAYER 16 TYPE 'X' DW CARRY FROM FLOOR TO U/S OF DW SEAL ALL PENETRATIONS THROUGH WALL FOR FIRE SEPARATION

ROOM FINISH SCHEDULE - CONTINUED

NO.	ROOM NAME	FLOOR	BASE	WALLS				CLNG	HEIGHT (mm A.F.F.)	REMARKS
				NORTH	EAST	SOUTH	WEST			
124	CORRIDOR	SHT-V	R	--	--	DW	DW	PF MTL	2554	
125	WASHROOM	SHT-V	R	DW	DW	DW	DW	DW	2587	
126	QUIET RM	SHT-V	R	DW	DW	DW	DW	DW	2587	
127	QUIET RM	SHT-V	R	DW	DW	DW	DW	DW	2587	
128	WASHROOM	SHT-V	R	DW	DW	DW	DW	DW	2587	

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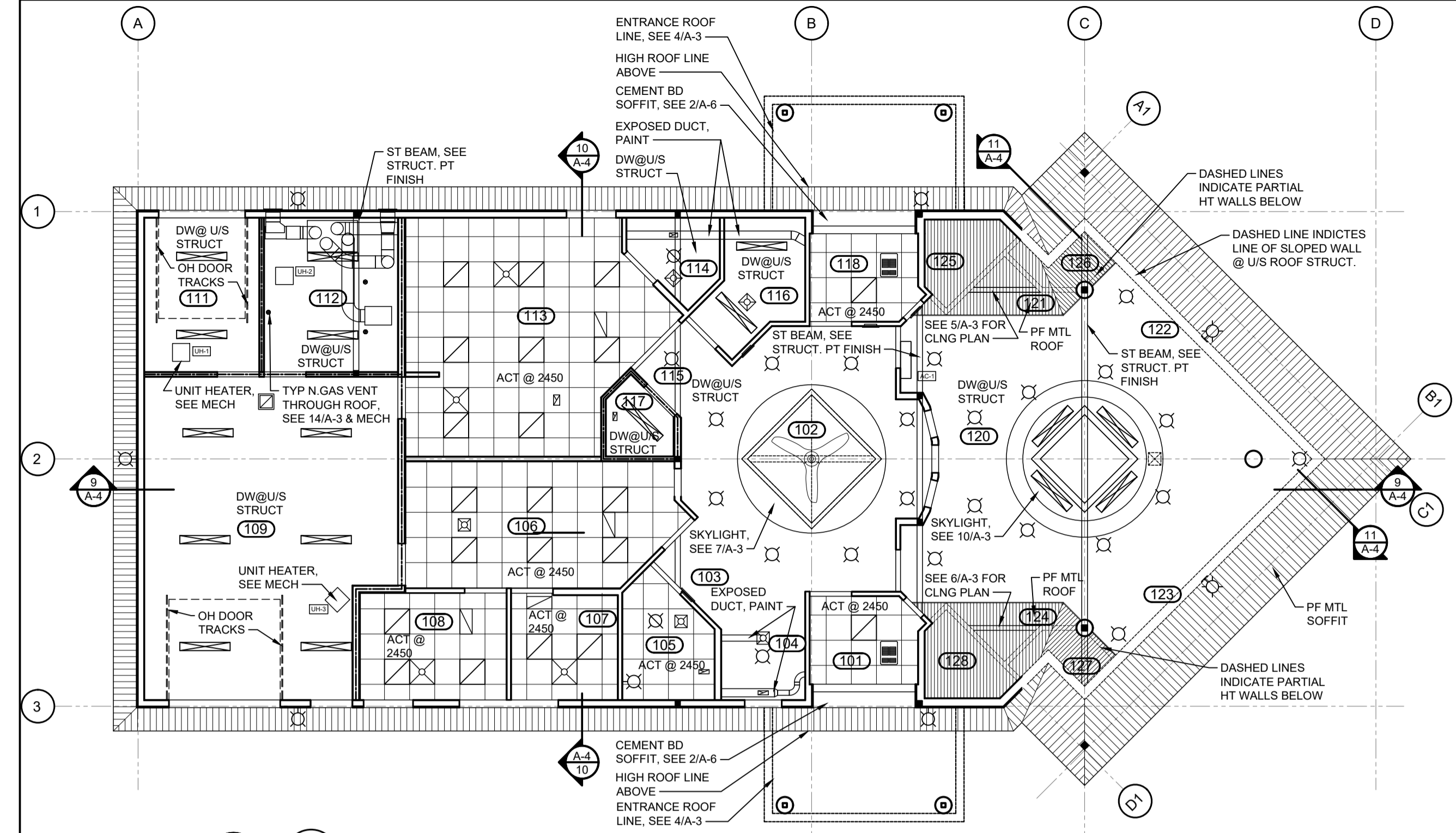
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P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
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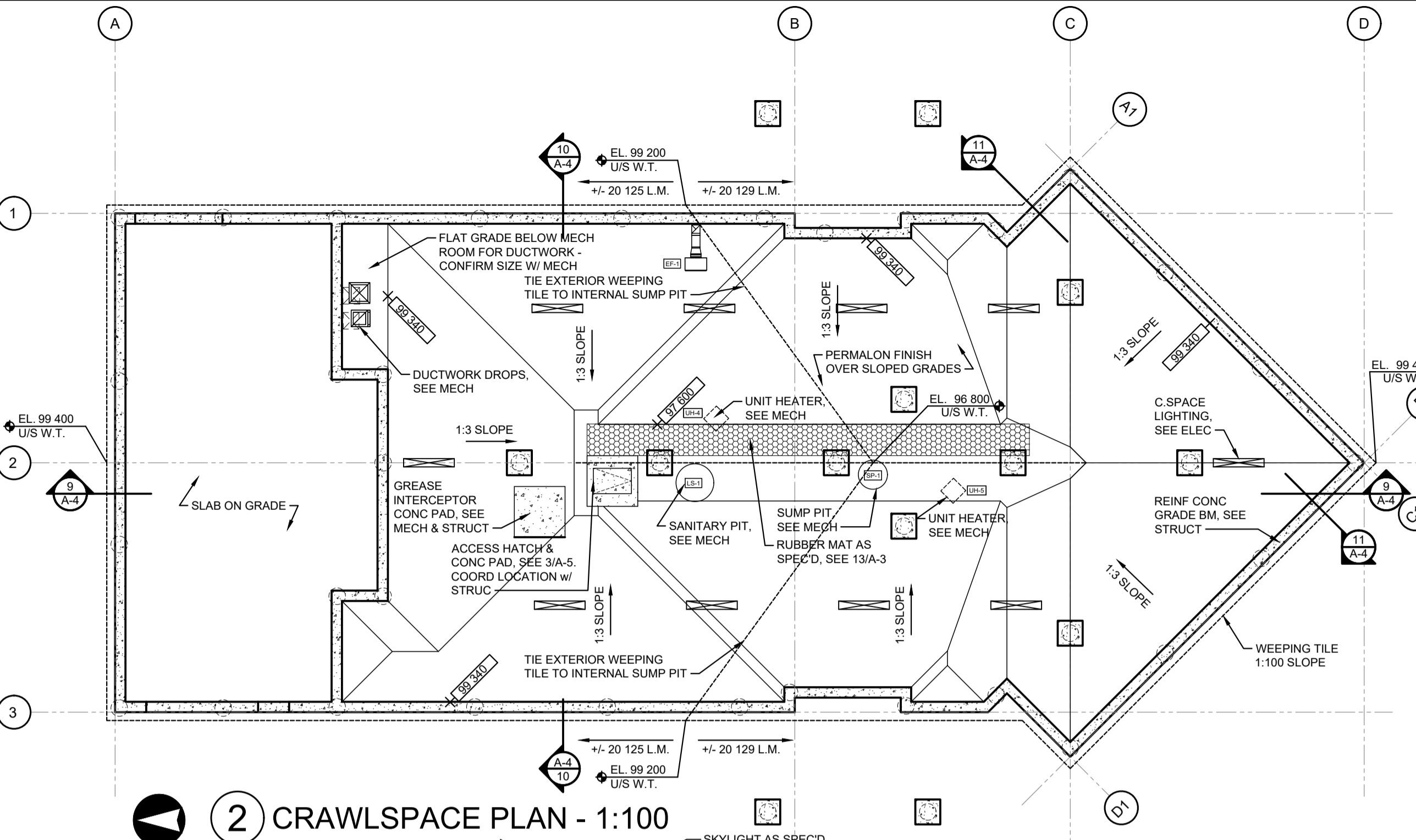
DRAWING TITLE:
CRAWLSPACE PLAN
REFLECTED CEILING PLANS
ROOF PLANS
SKYLIGHT DETAILS

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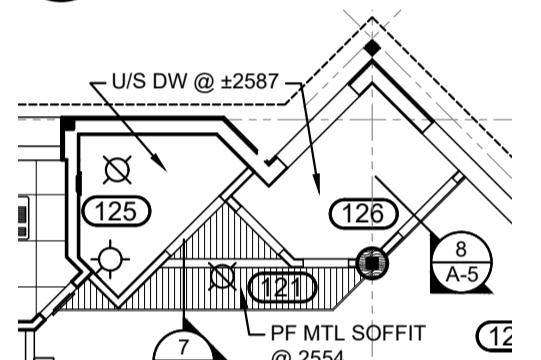
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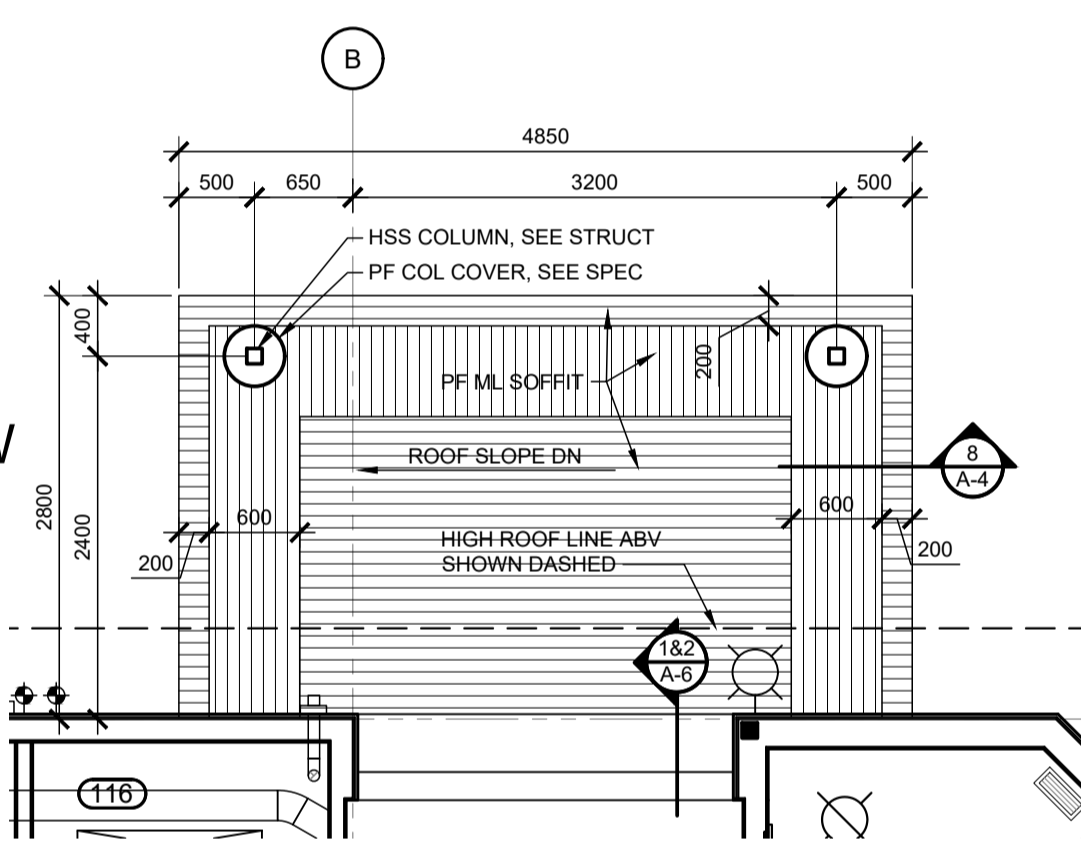
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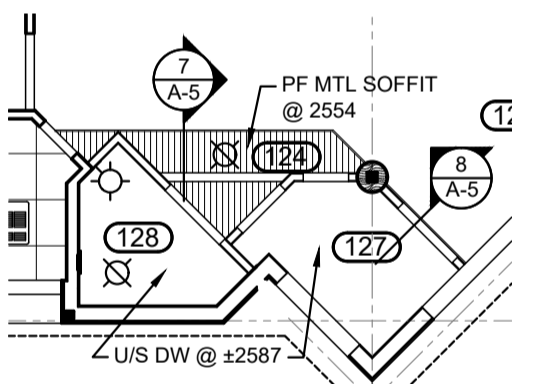
2 CRAWLSPACE PLAN - 1:100



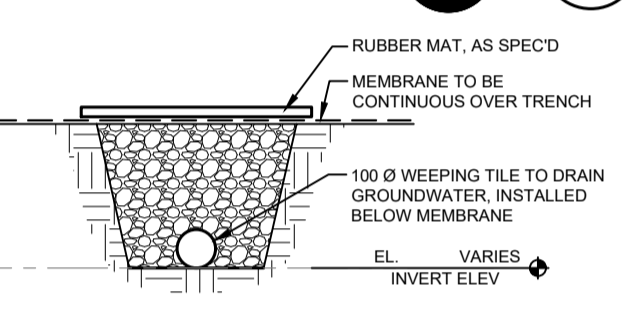
5 CEILING PLAN - BELOW INT ROOF - 1:50



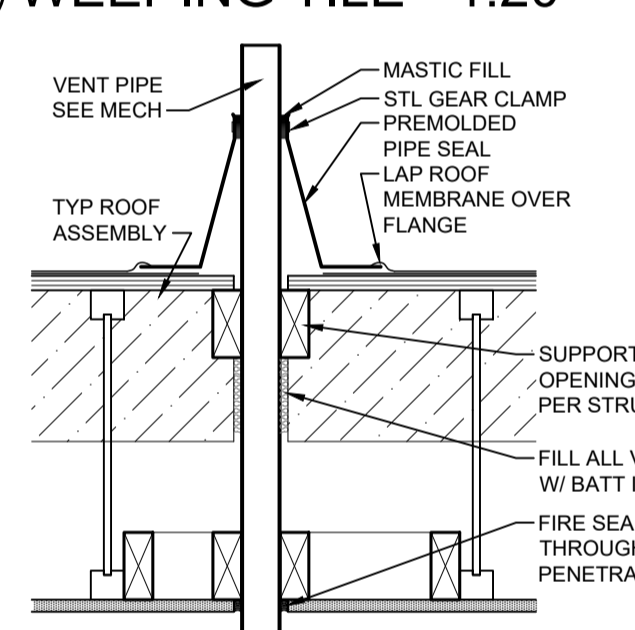
4 TYP CANOPY PLAN - 1:50



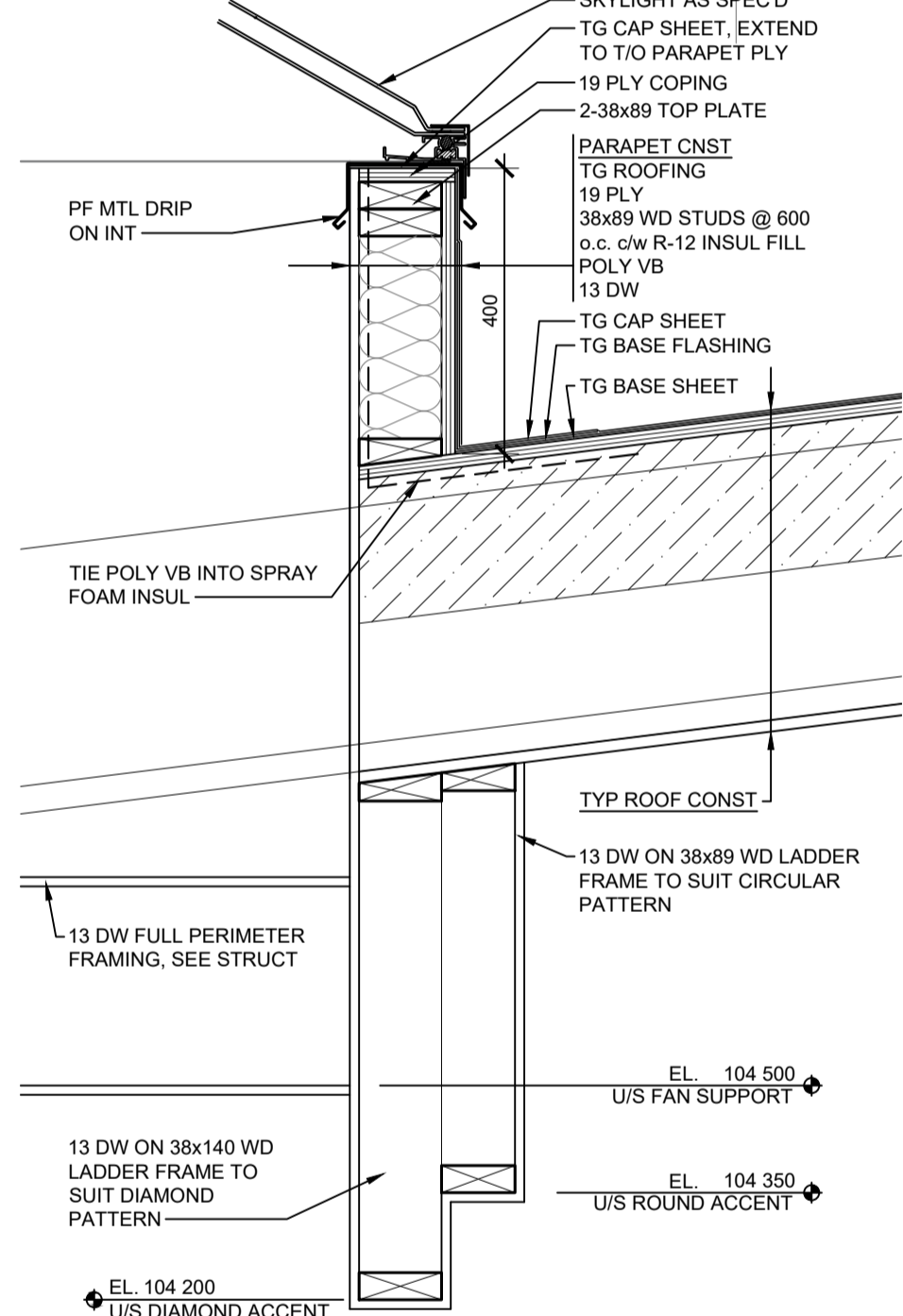
6 CEILING PLAN - BELOW INT ROOF - 1:50



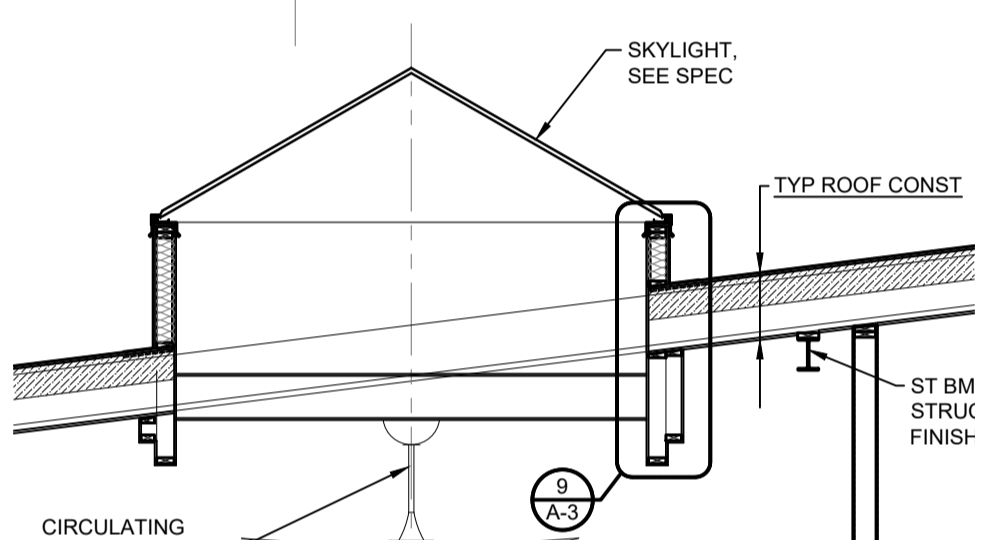
13 WEeping TILE - 1:20



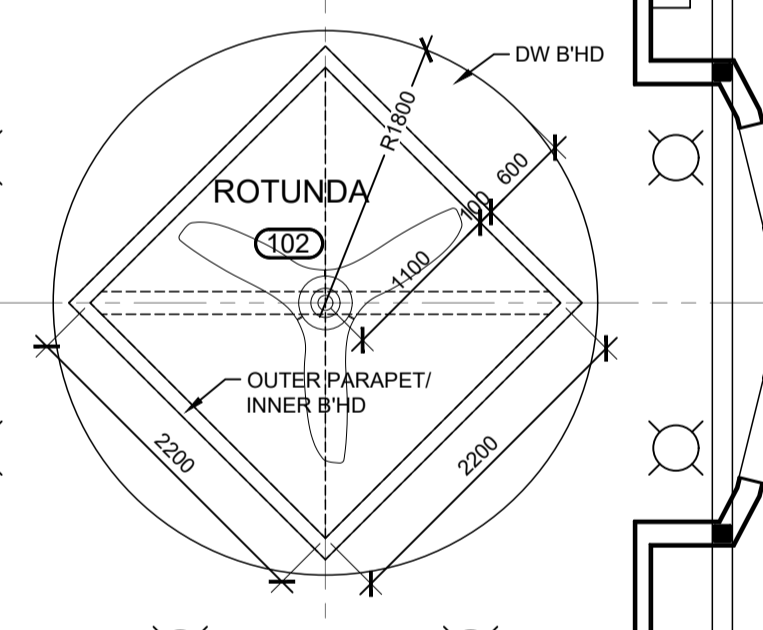
14 ROOF PENETRATION - 1:10



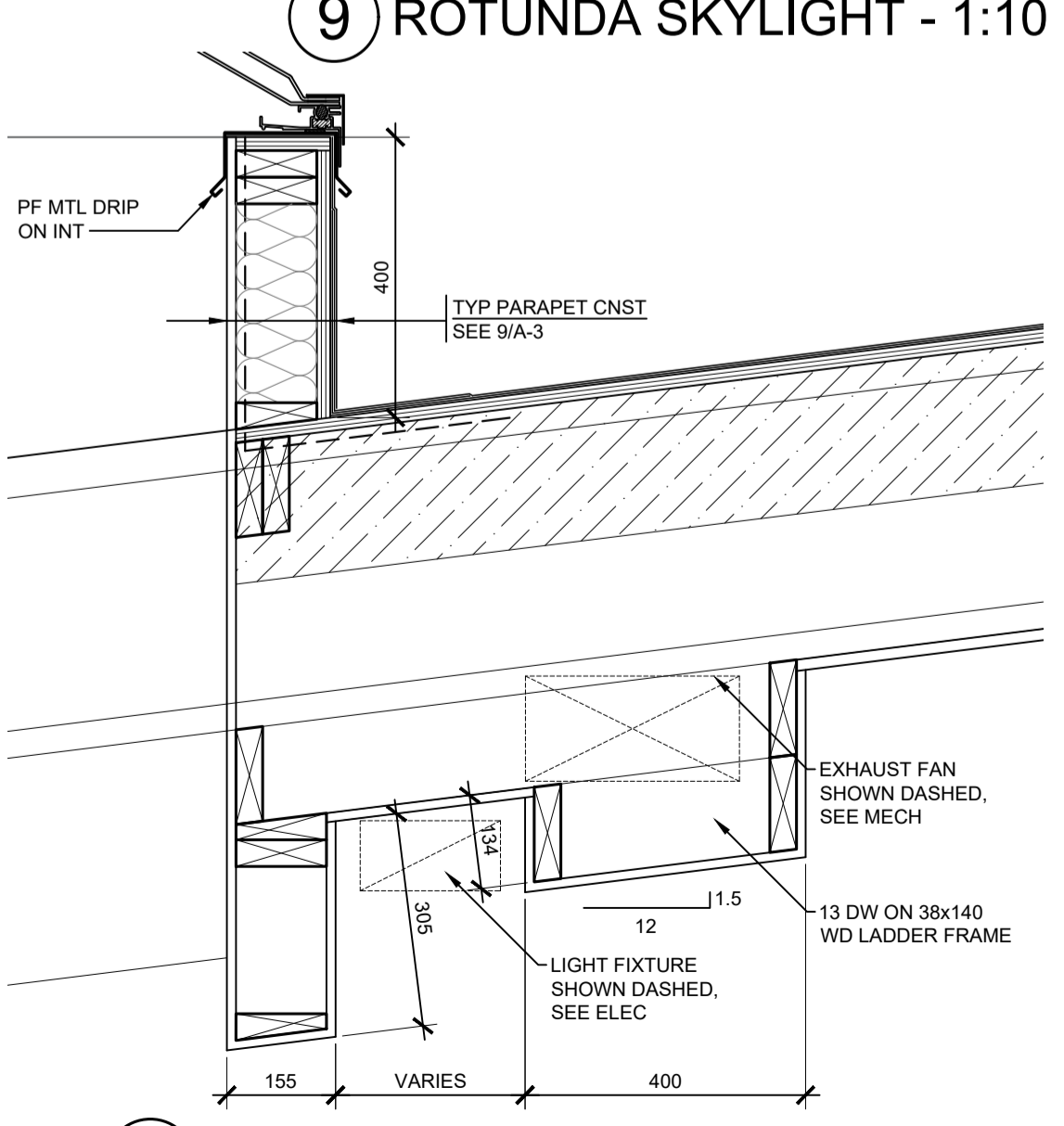
9 ROTUNDA SKYLIGHT - 1:10



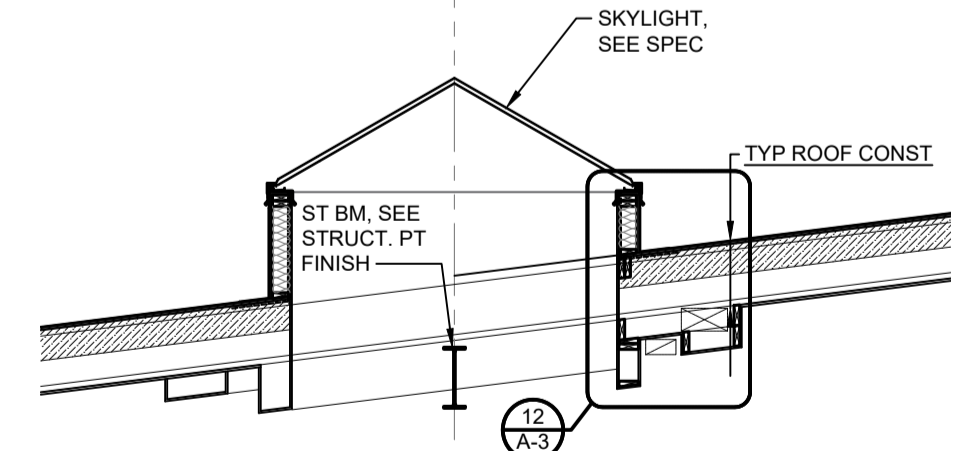
8 ROTUNDA SKYLIGHT - 1:50



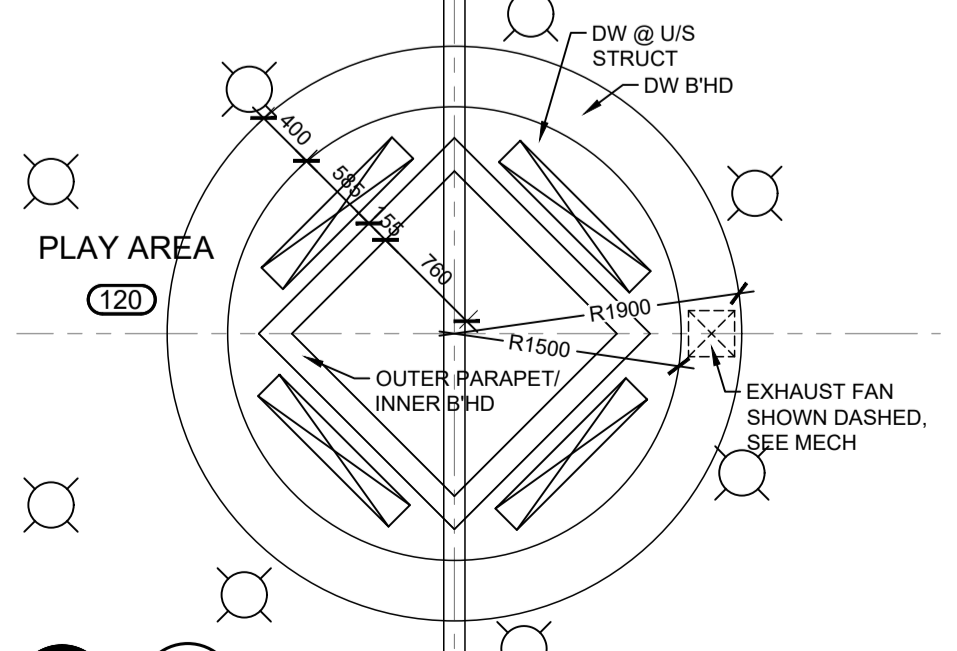
7 ROTUNDA PLAN - 1:50



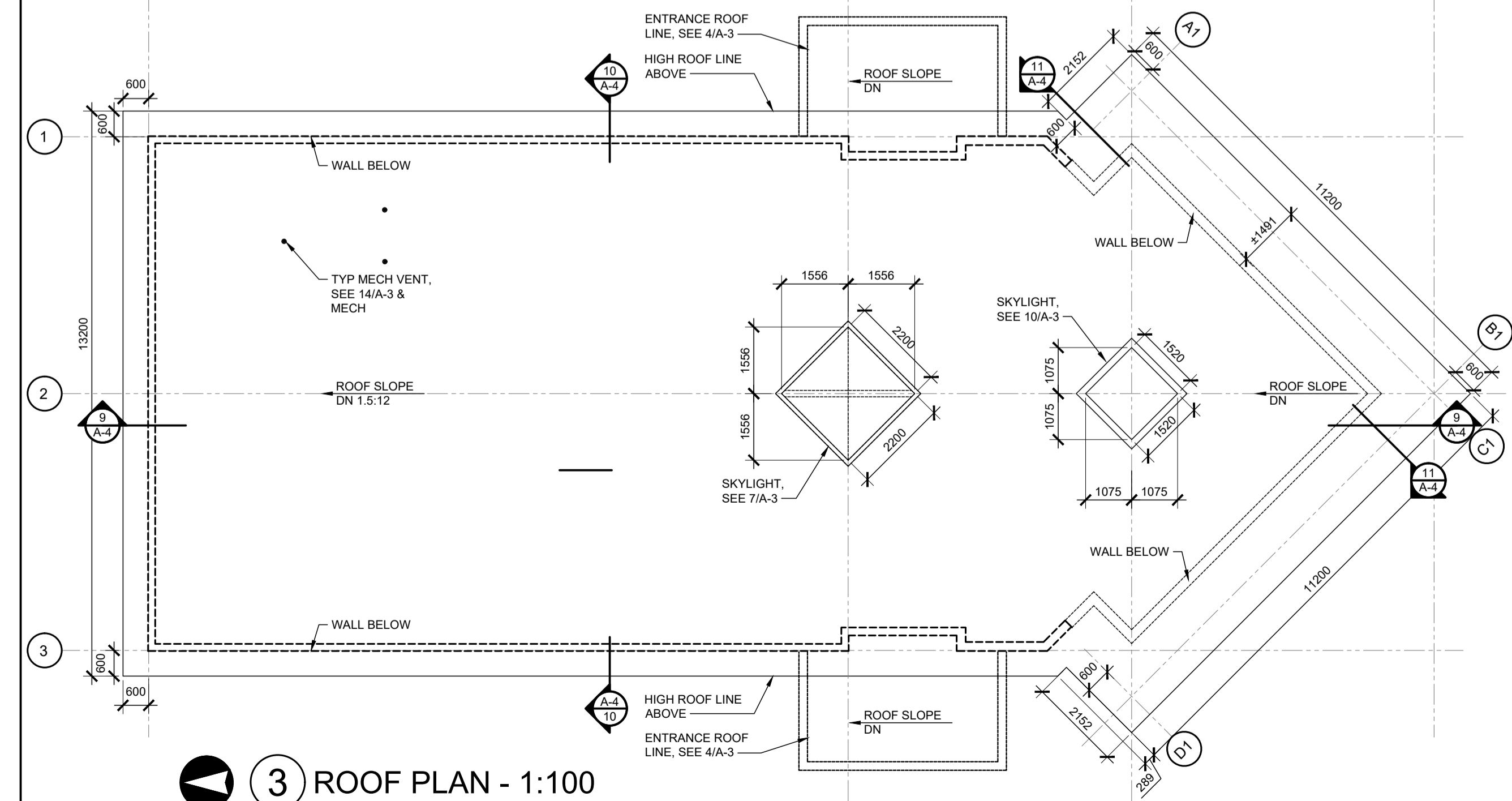
12 PLAYAREA SKYLIGHT - 1:50



11 PLAYAREA SKYLIGHT - 1:50



10 PLAYAREA PLAN - 1:50



3 ROOF PLAN - 1:100

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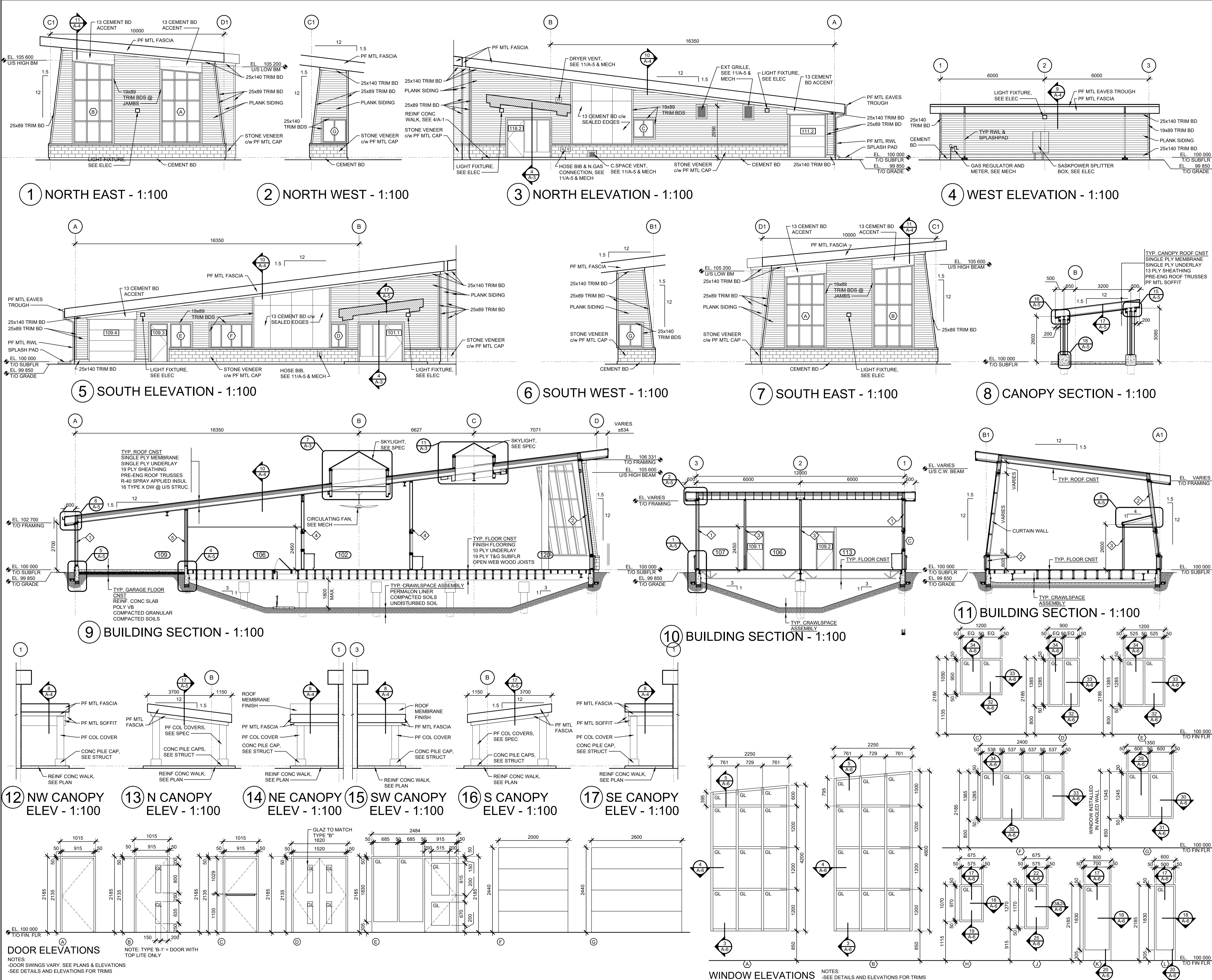
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BUILDING SECTIONS
DOOR AND WINDOW ELEVATIONS

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FILE NO:	DRAWING NO:	
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DOOR ELEVATIONS
NOTES:
-DOOR SWINGS VARY. SEE PLANS & ELEVATIONS
-SEE DETAILS AND ELEVATIONS FOR TRIMS

WINDOW ELEVATIONS
NOTES:
-SEE DETAILS AND ELEVATIONS FOR TRIMS

1	ISSUE FOR BID	18 JUL 24
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ISSUE	DESCRIPTION	DATE
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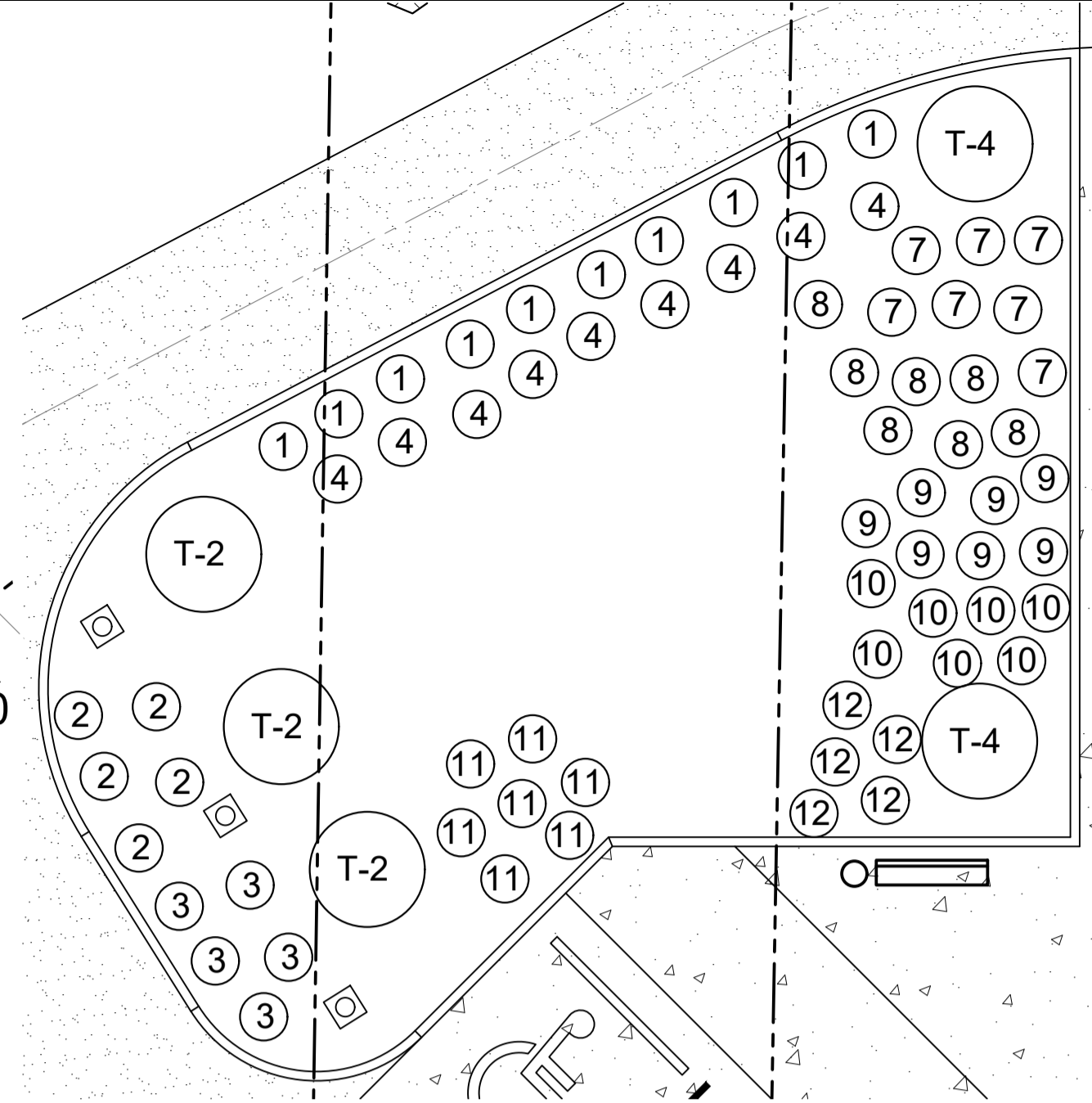
CLIENT INFORMATION:
OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRIES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRIES, SASKATCHEWAN

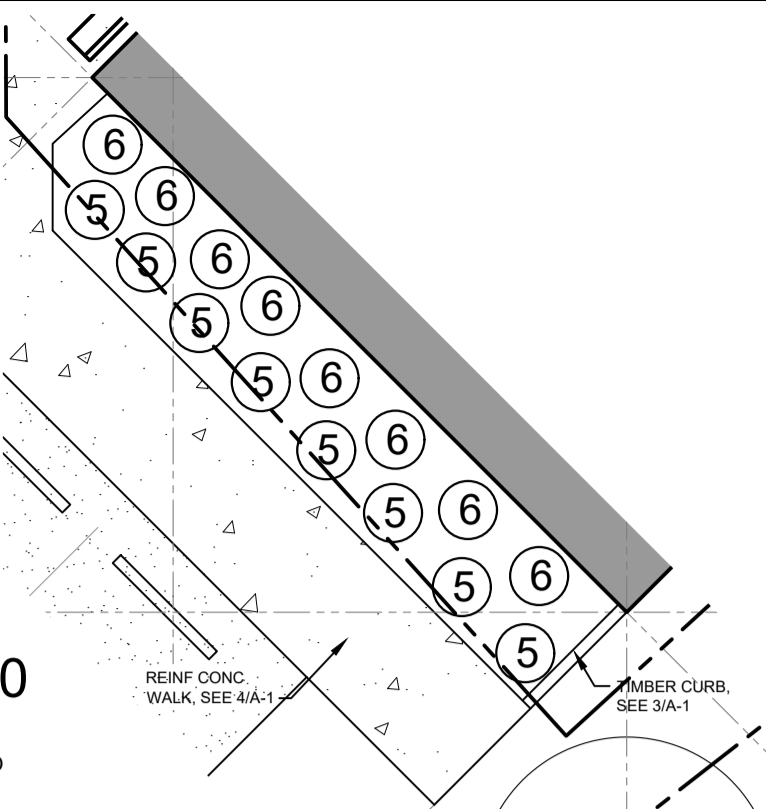
DRAWING TITLE:
SECTION DETAILS
PLANTING PLANS
MISCELLANEOUS DETAILS

DRAWN BY: SHK	CHECKED BY: KD	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	DRAWING NO:	
22-117	A-5	

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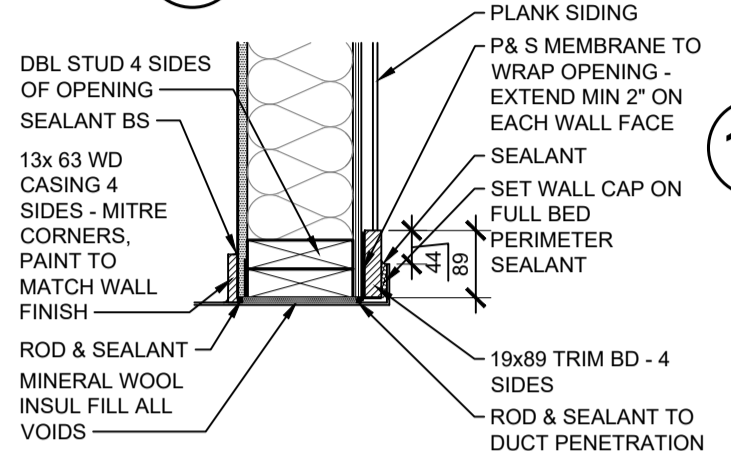
13 PLANTING BED 'A' - 1:100



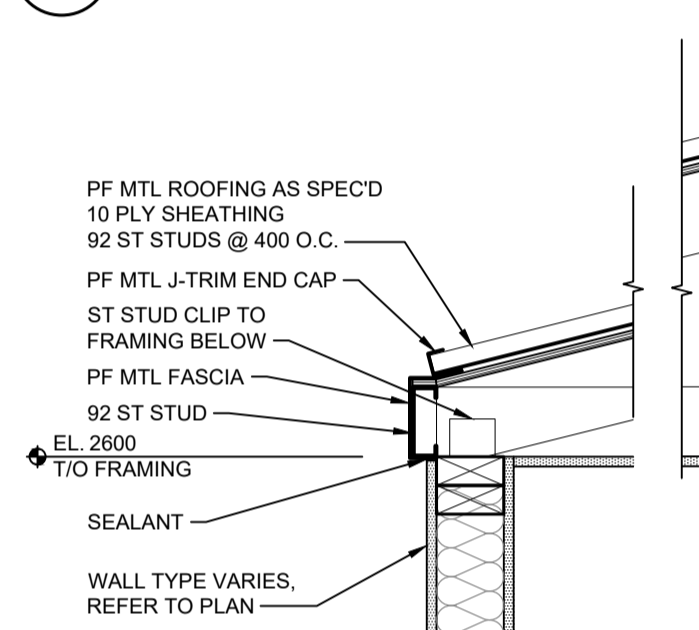
14 PLANTING BED 'B' - 1:100

10 NOT USED

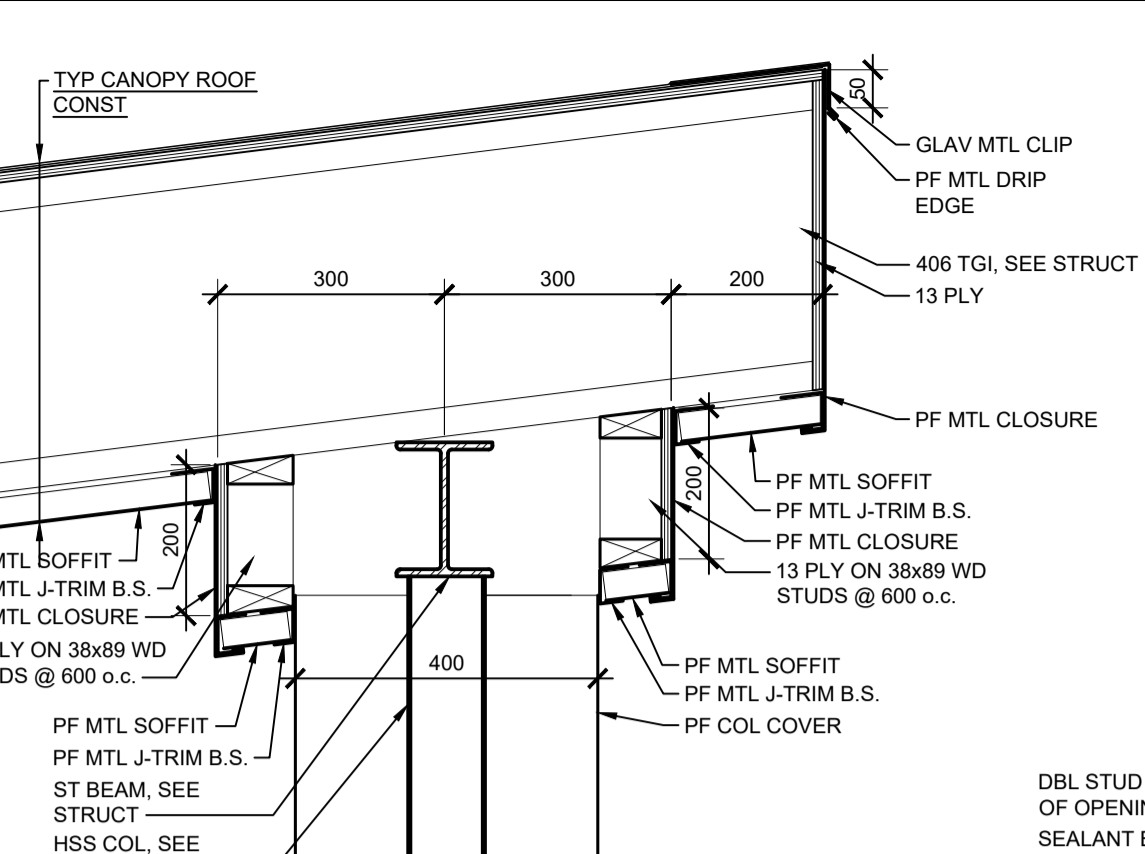
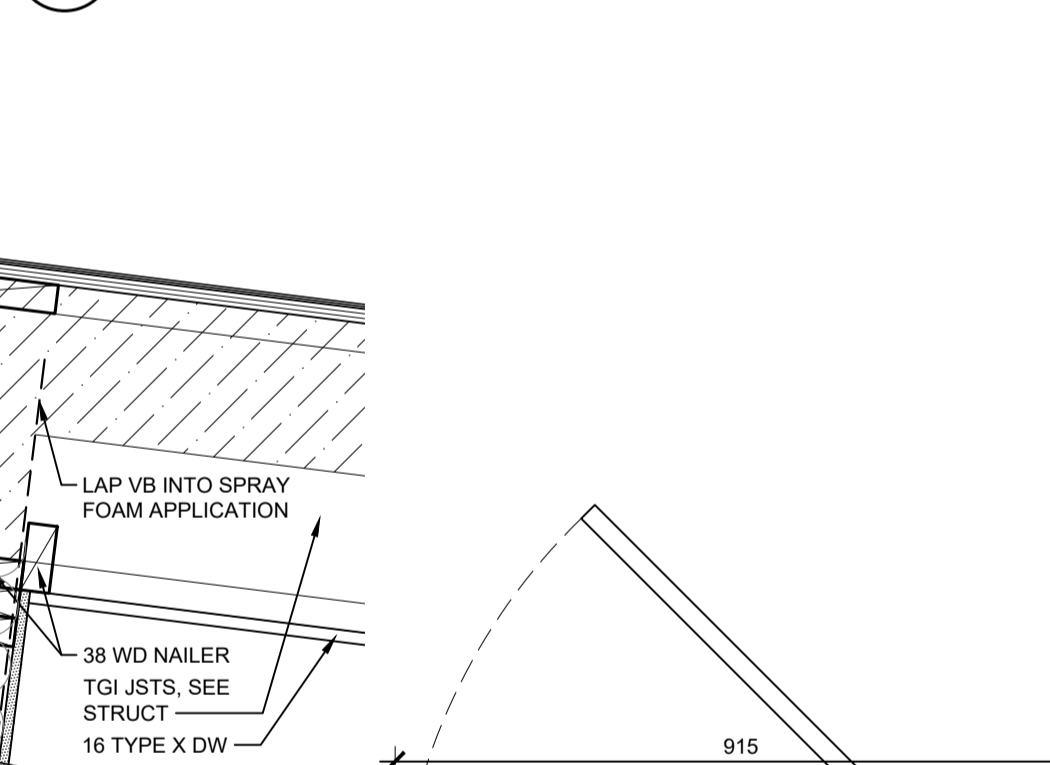
12 GUARDRAIL - 1:10



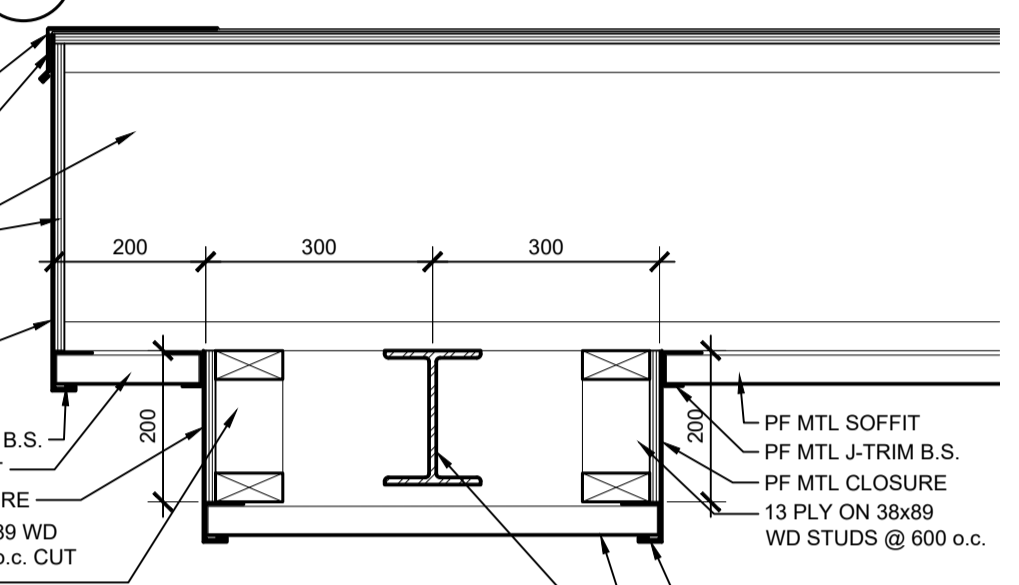
11 C-SPACE VENT - 1:10



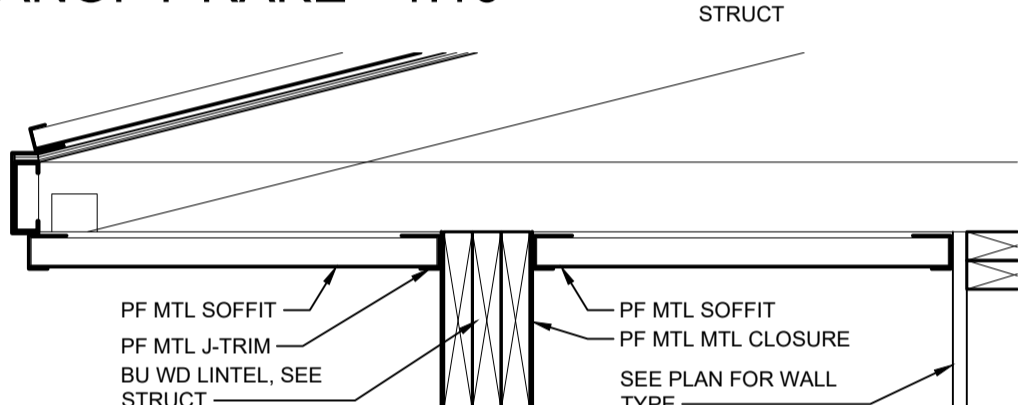
8 INT SHED ROOF - 1:10



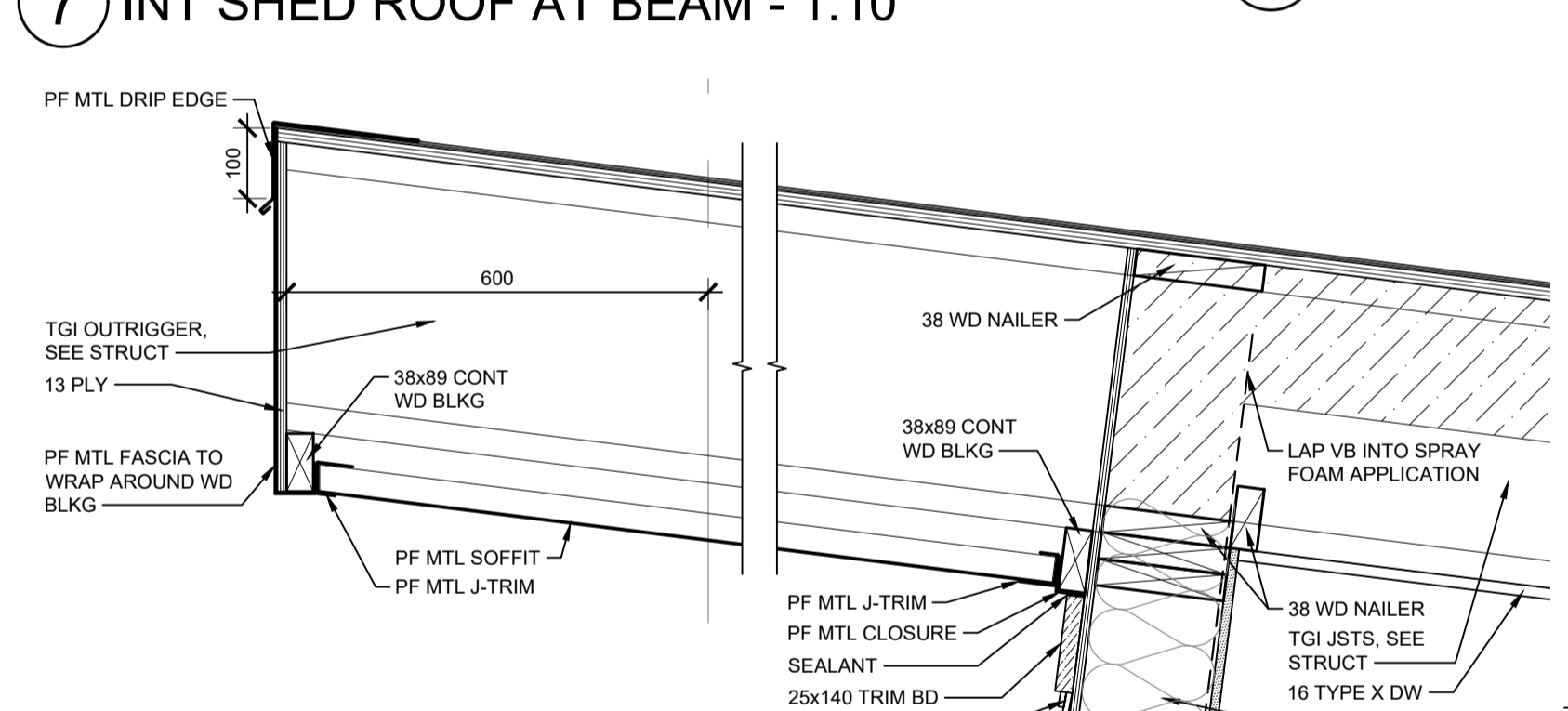
15 CANOPY RIDGE - 1:10



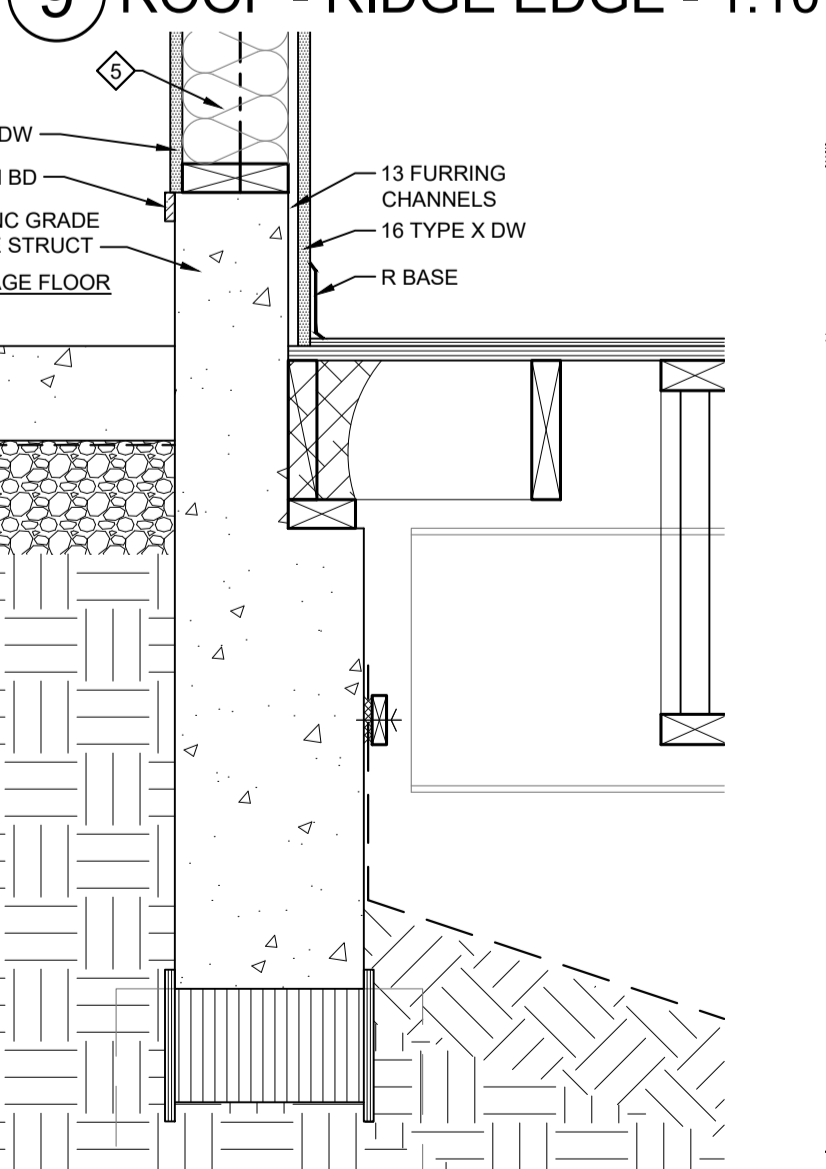
17 CANOPY RAKE - 1:10



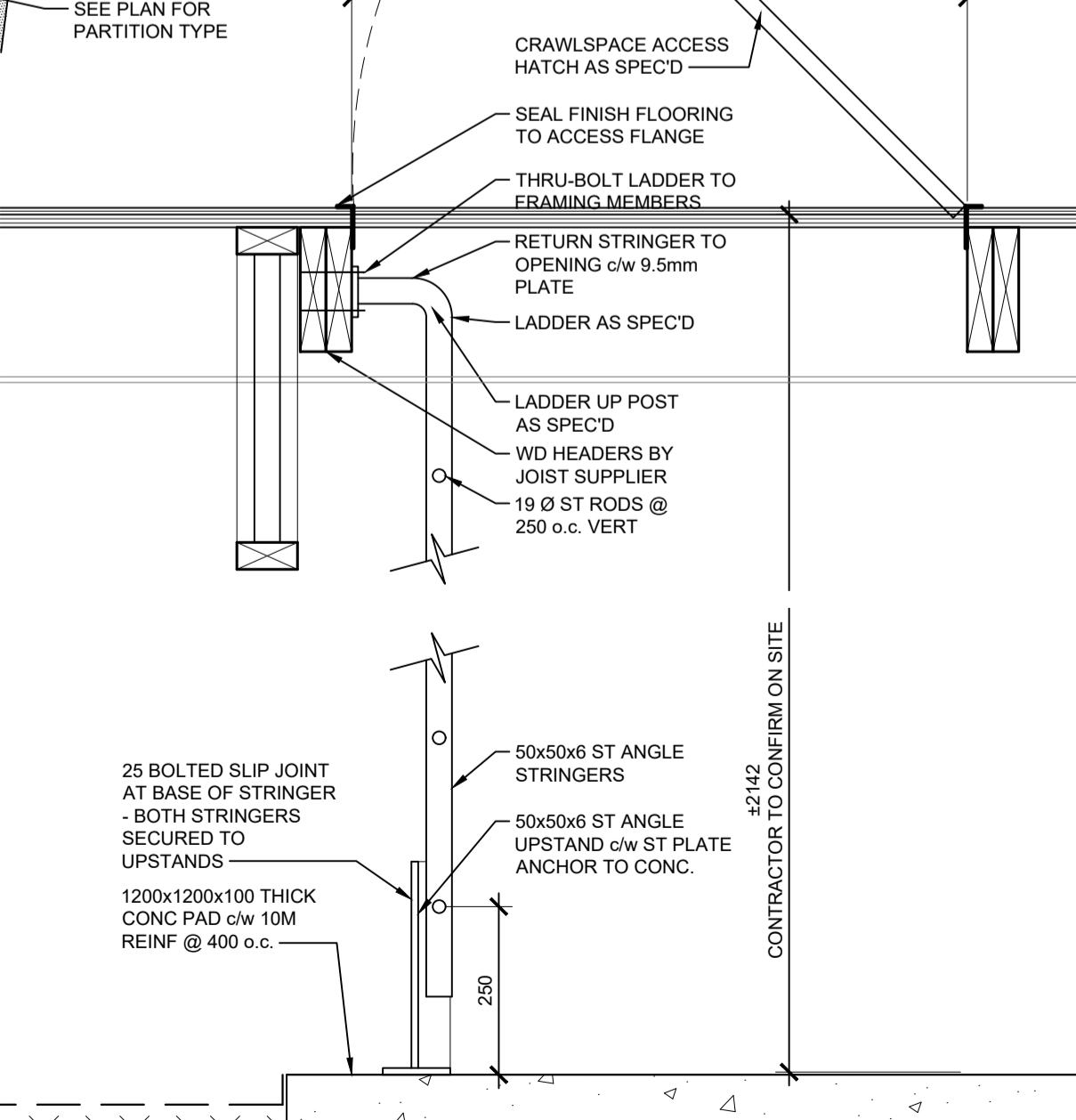
7 INT SHED ROOF AT BEAM - 1:10



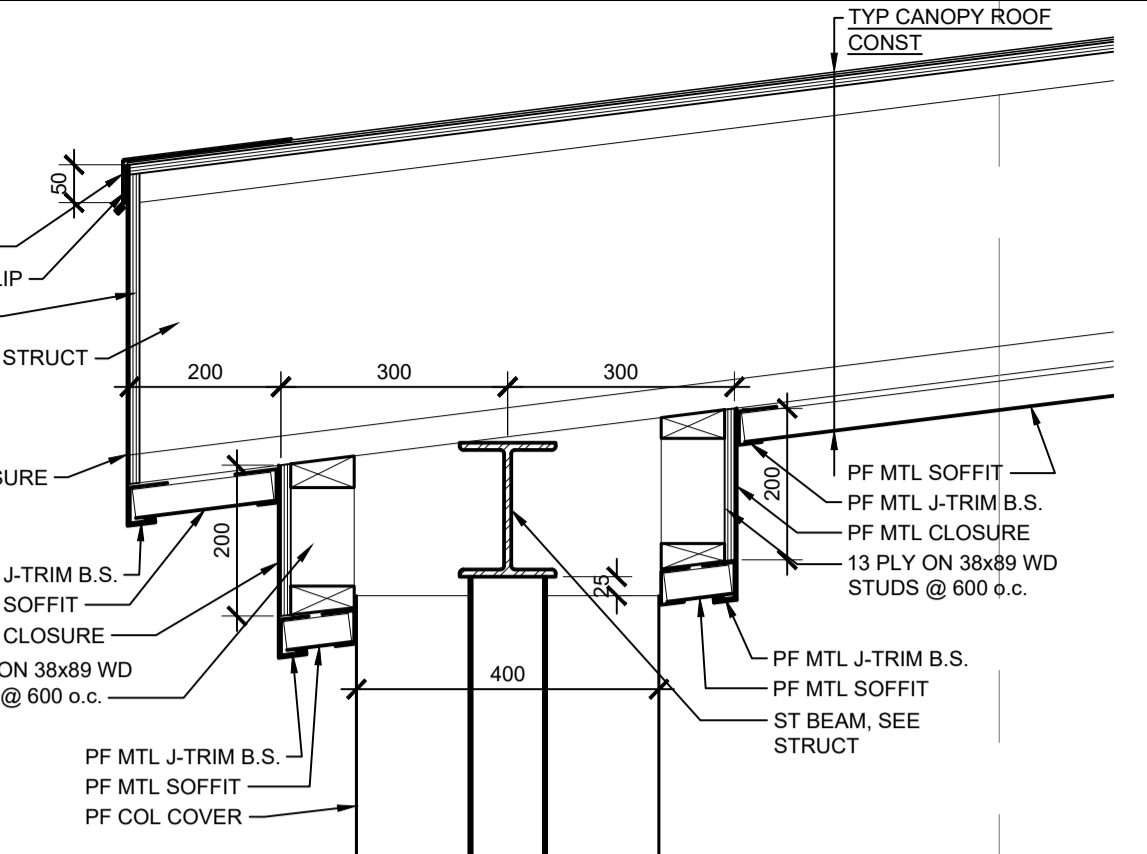
9 ROOF - RIDGE EDGE - 1:10



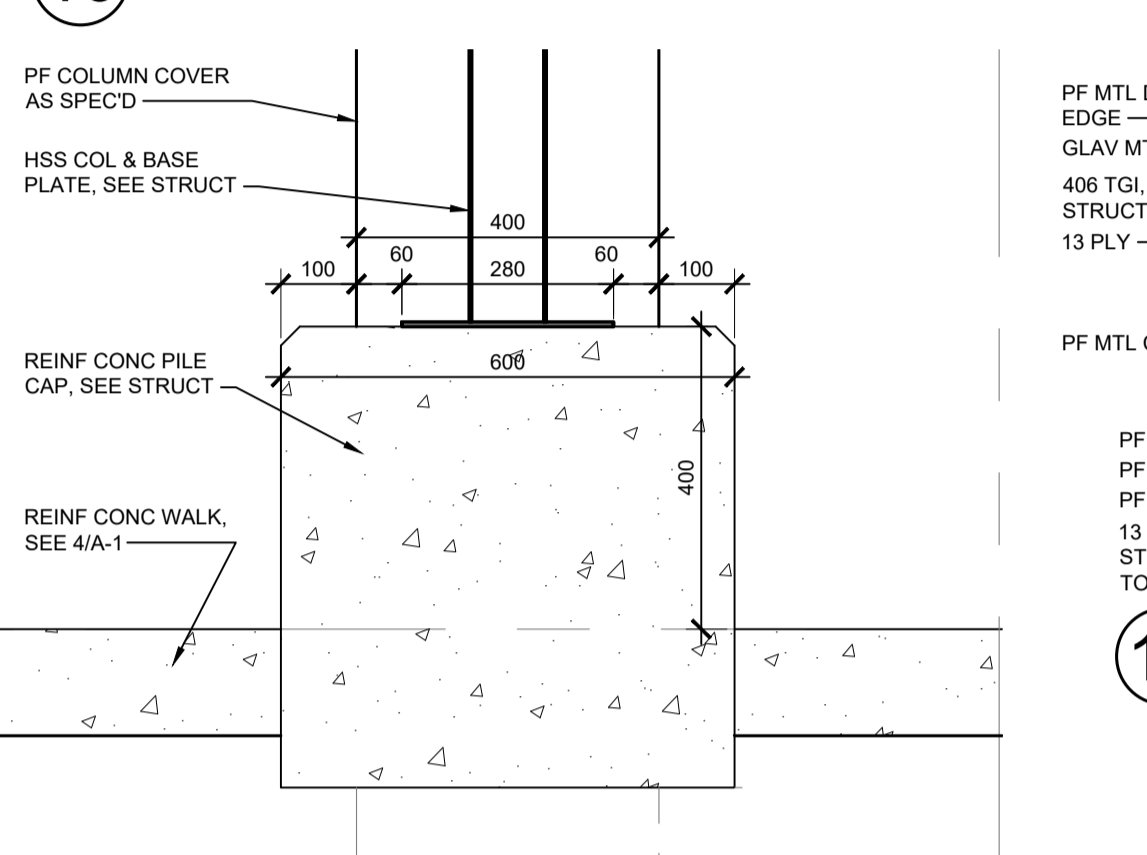
4 GRADE BEAM - 1:10



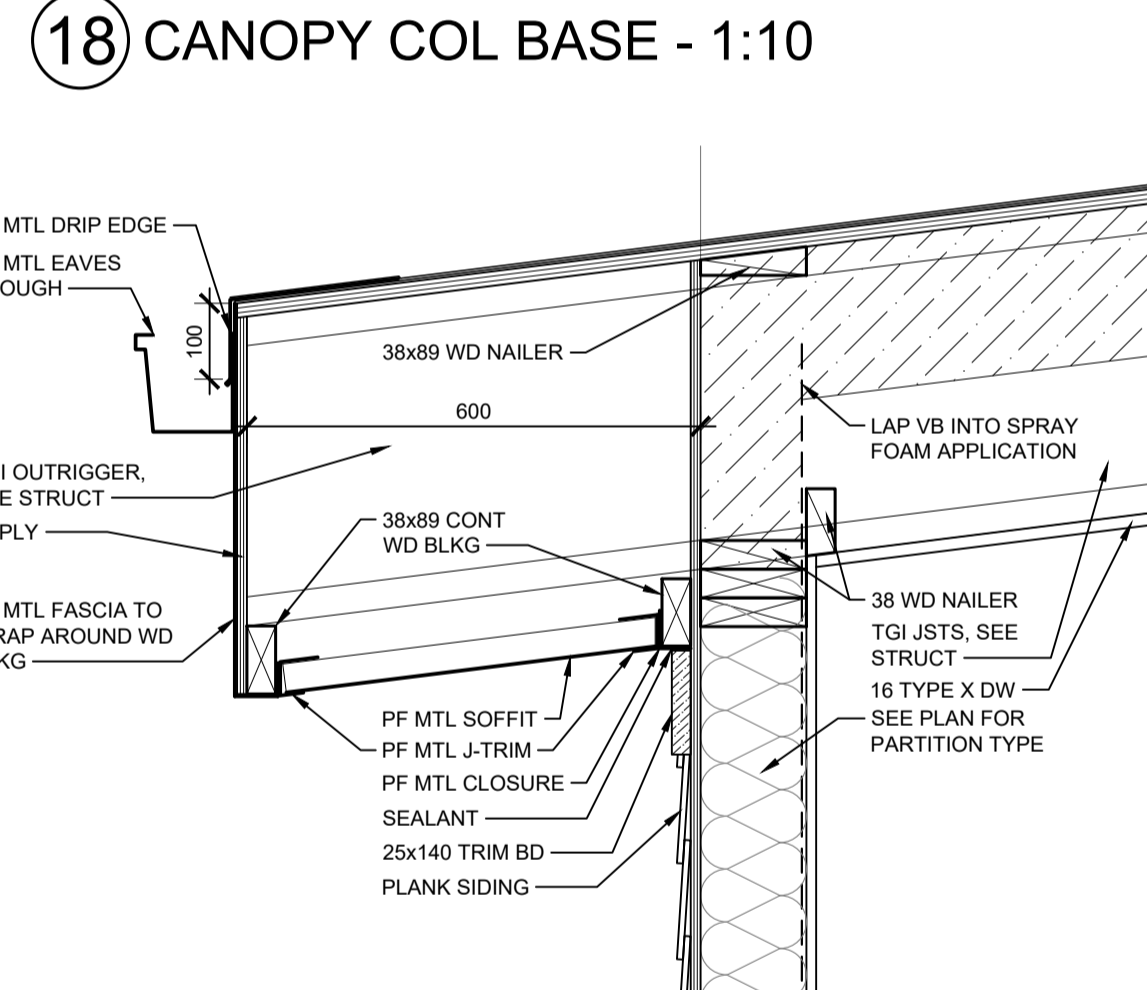
3 CRAWLSPACE ACCESS - 1:10



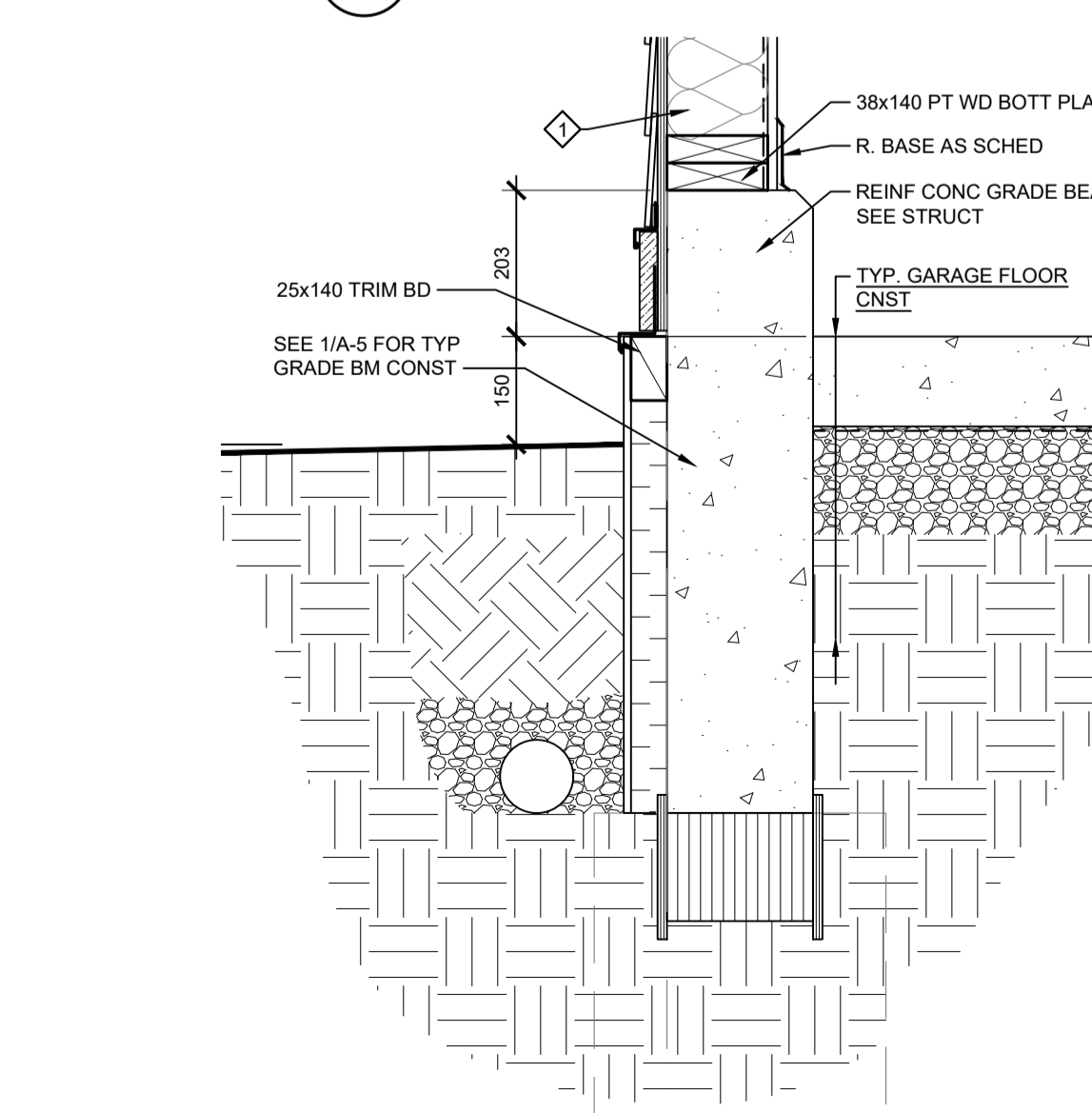
16 CANOPY EAVE - 1:10



18 CANOPY COL BASE - 1:10

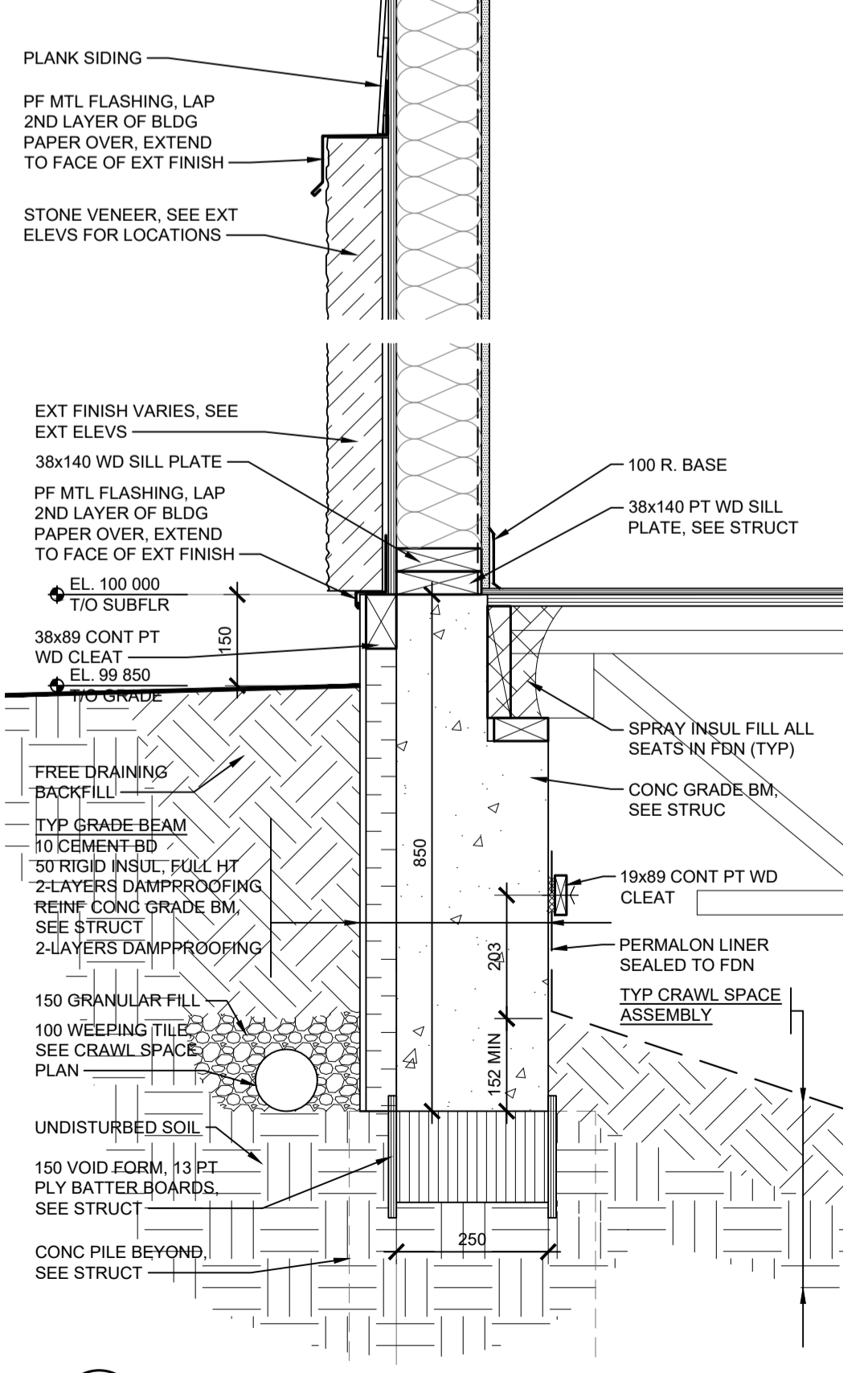


6 ROOF - EAVE EDGE - 1:10



5 GRADE BEAM - 1:10

2 ROOF - RAKE EDGE - 1:10 TYPICAL



1 GRADE BEAM - 1:10 TYPICAL

ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

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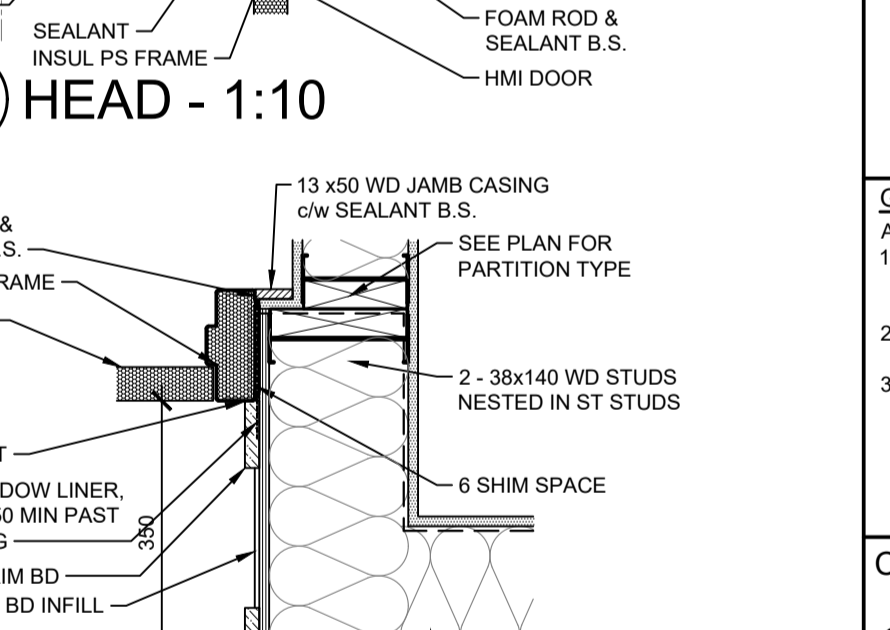
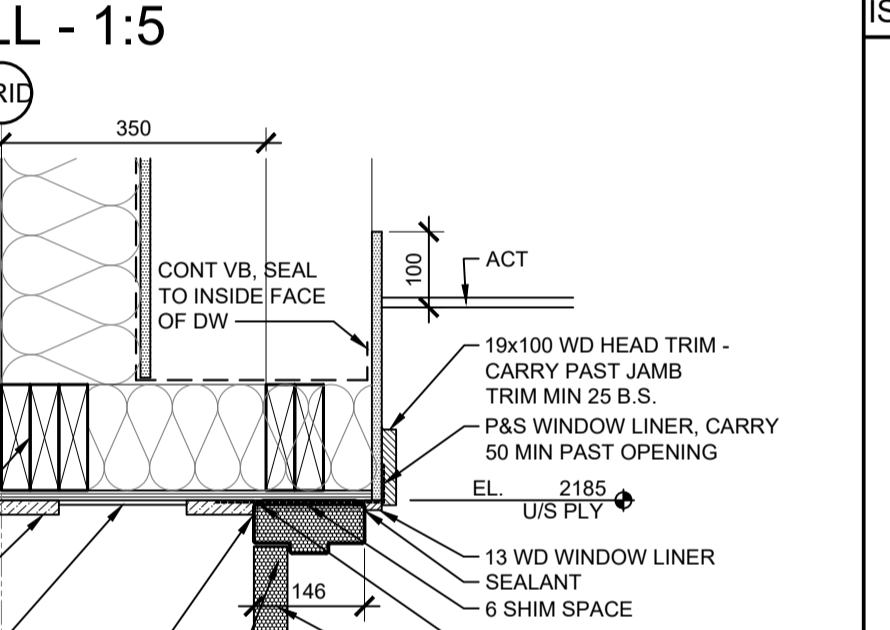
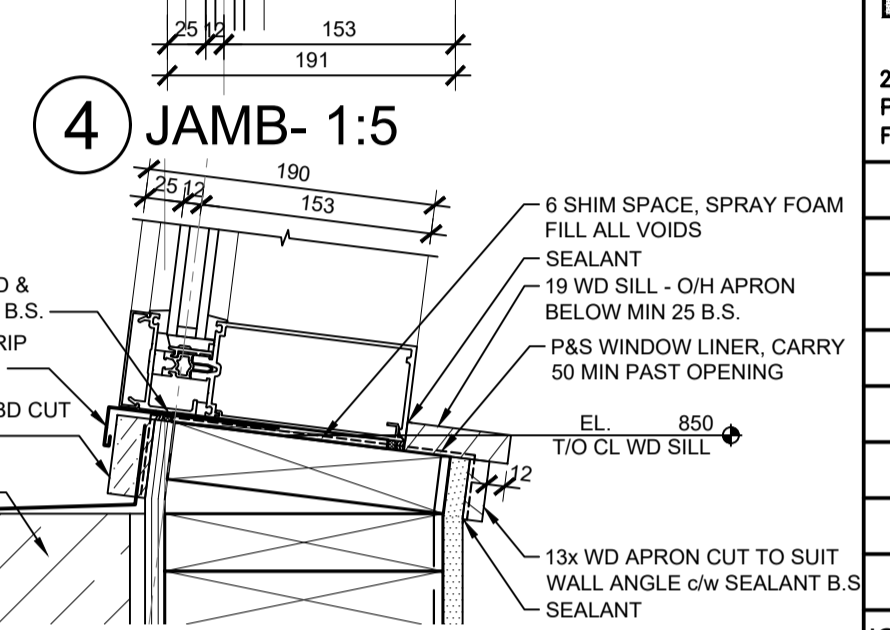
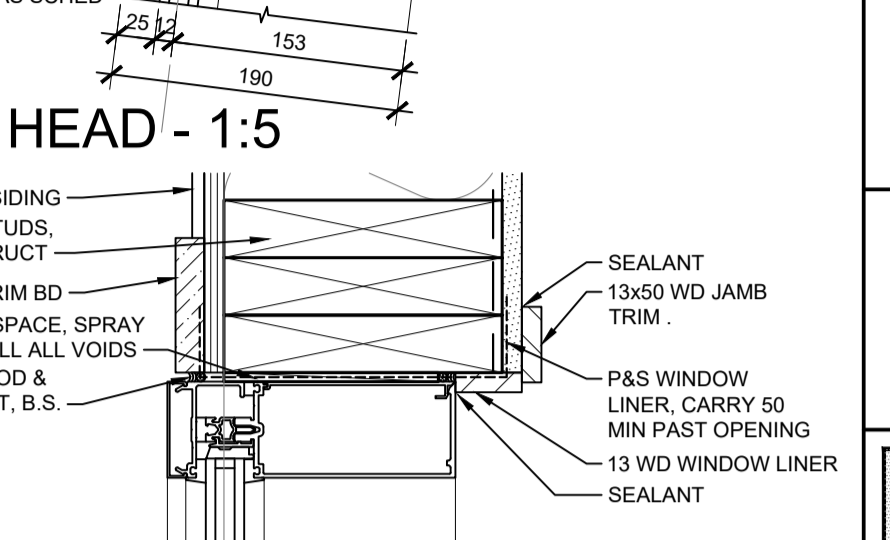
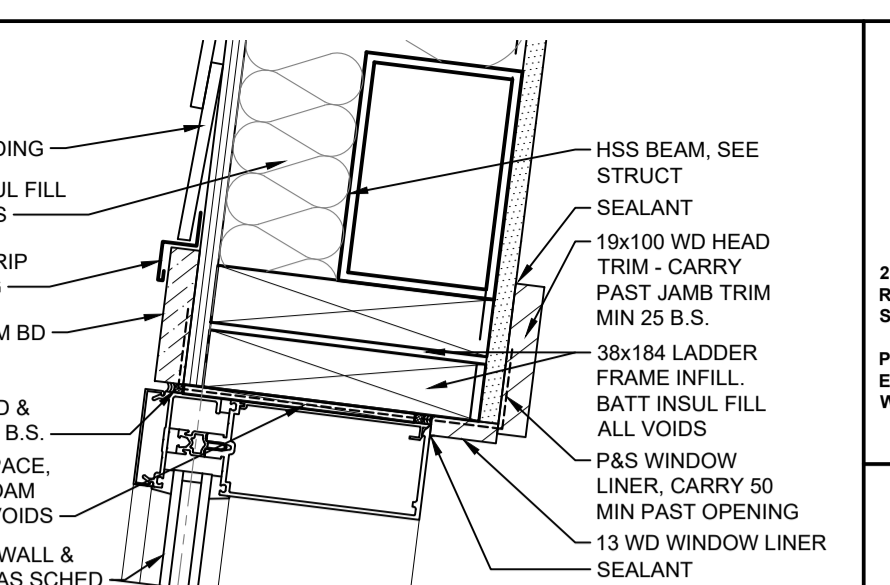
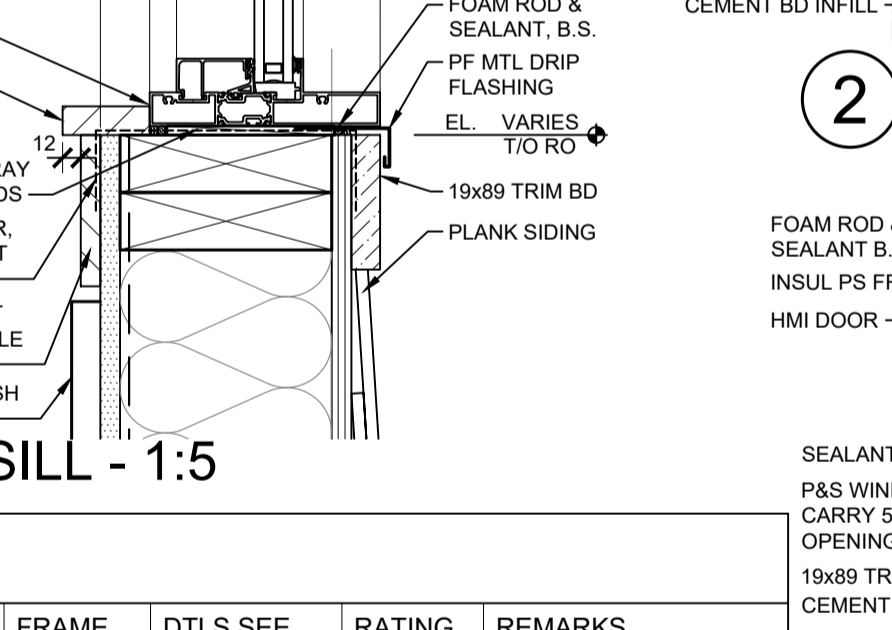
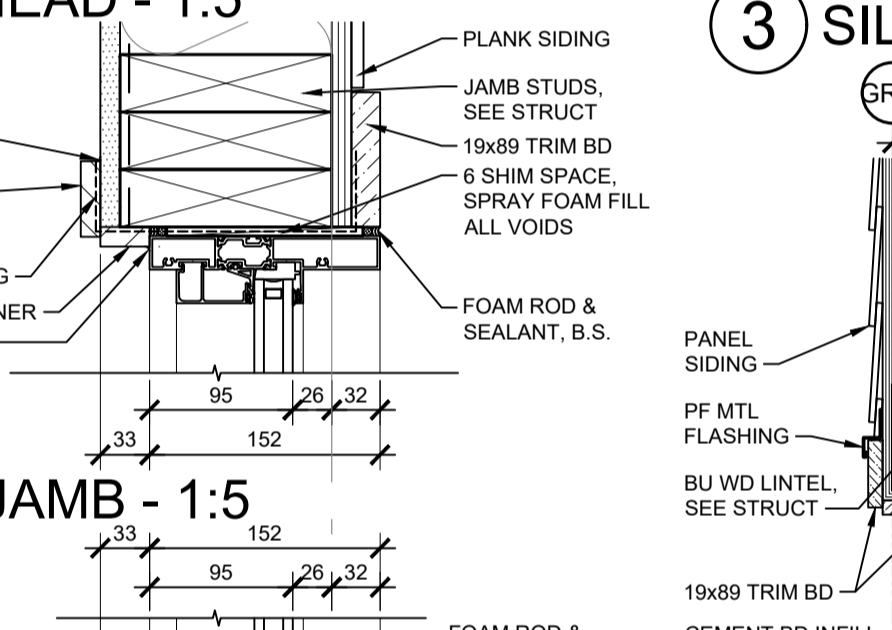
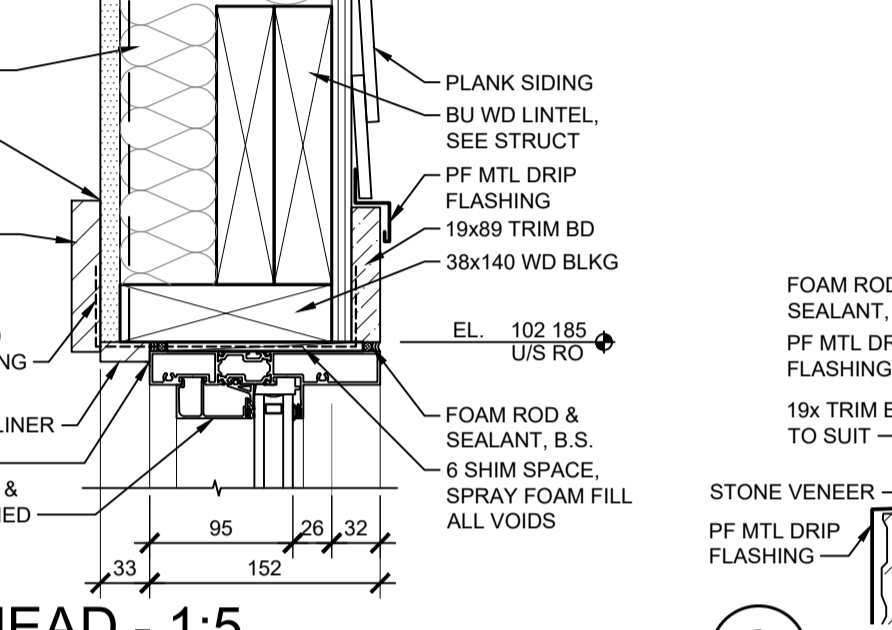
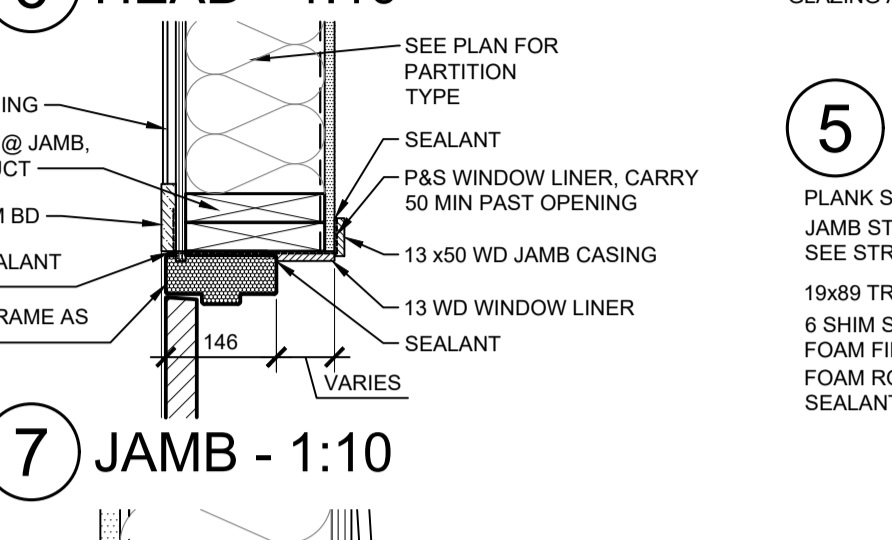
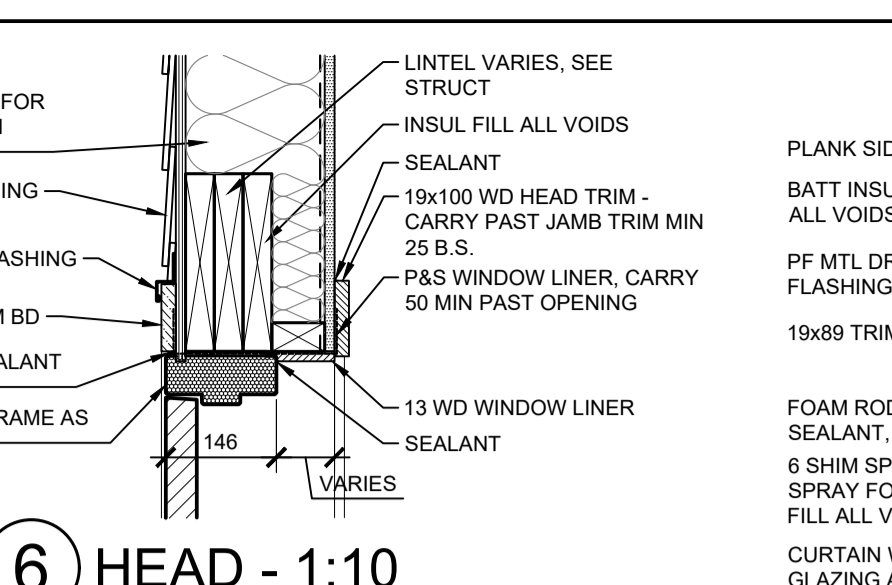
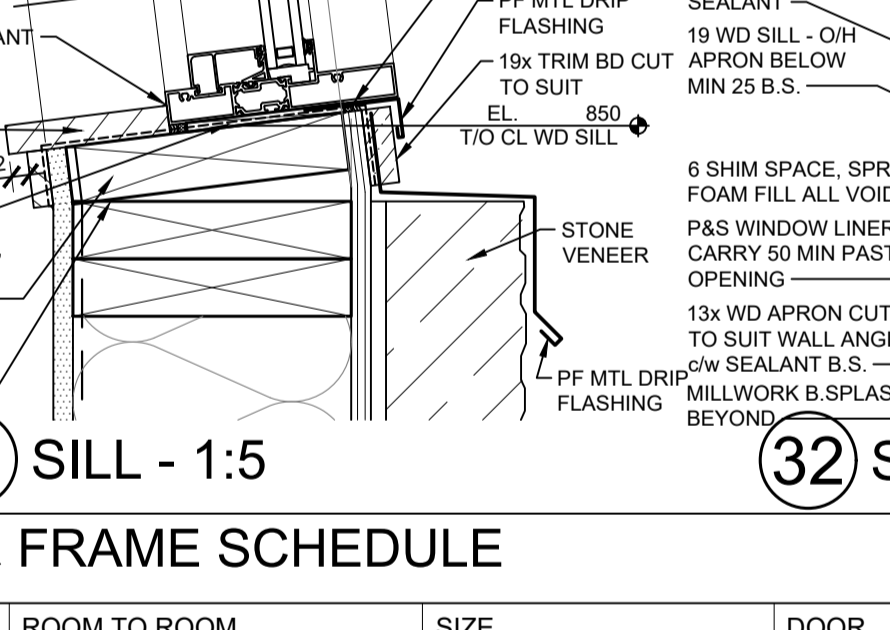
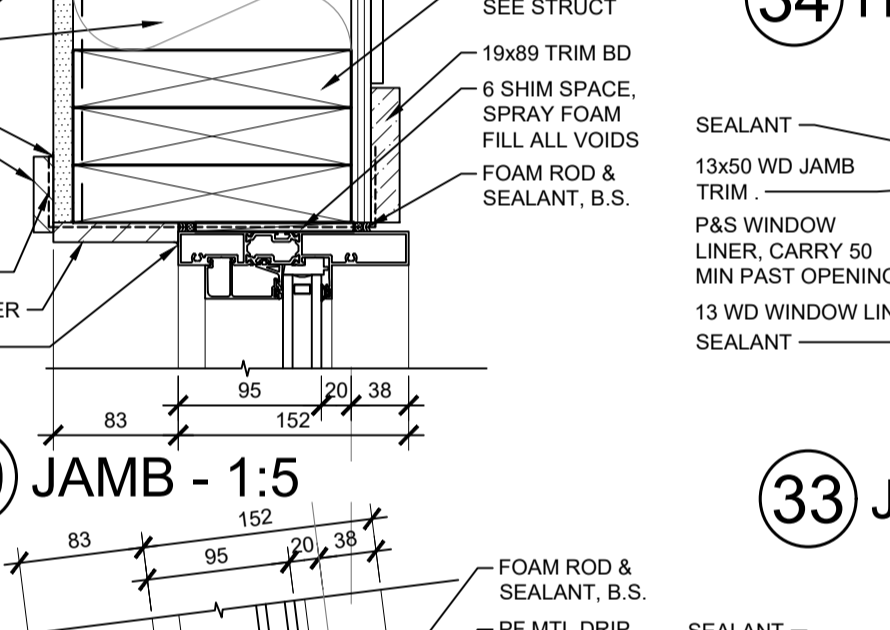
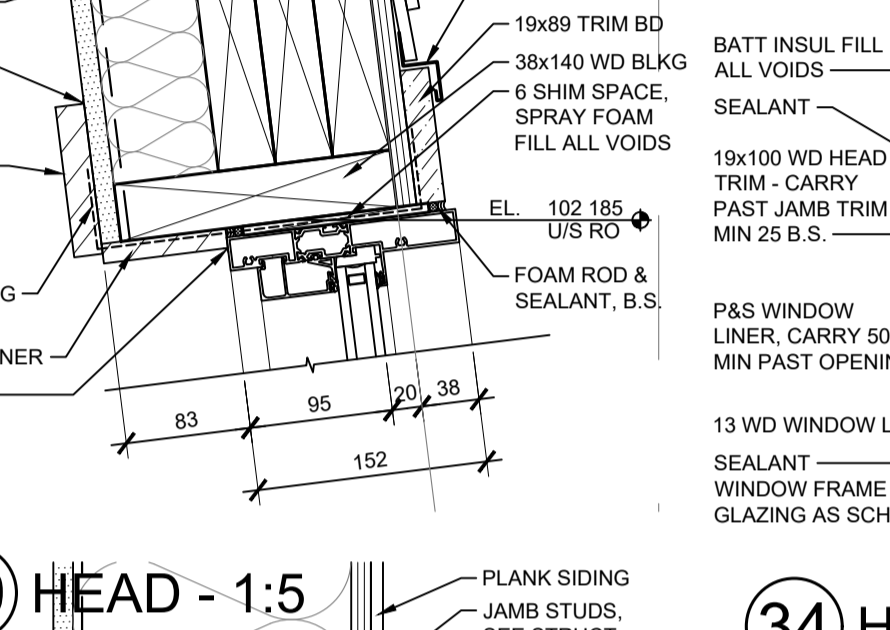
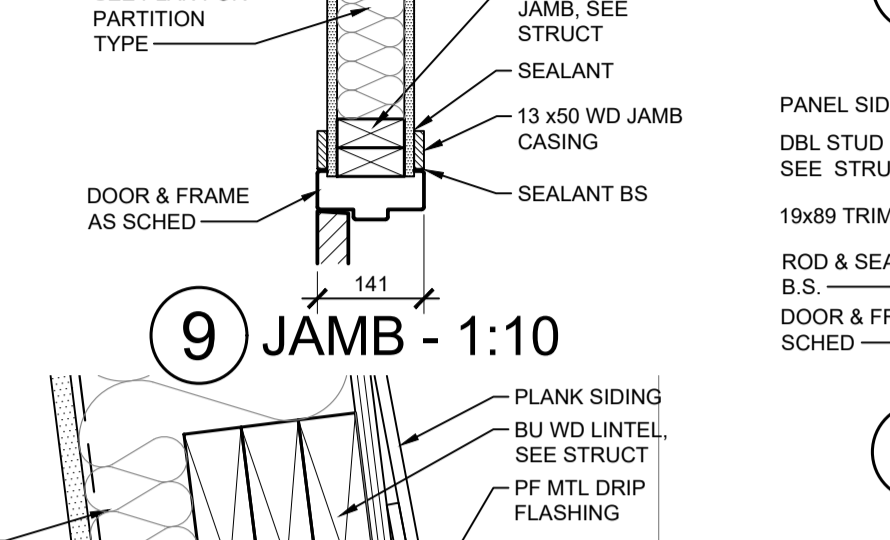
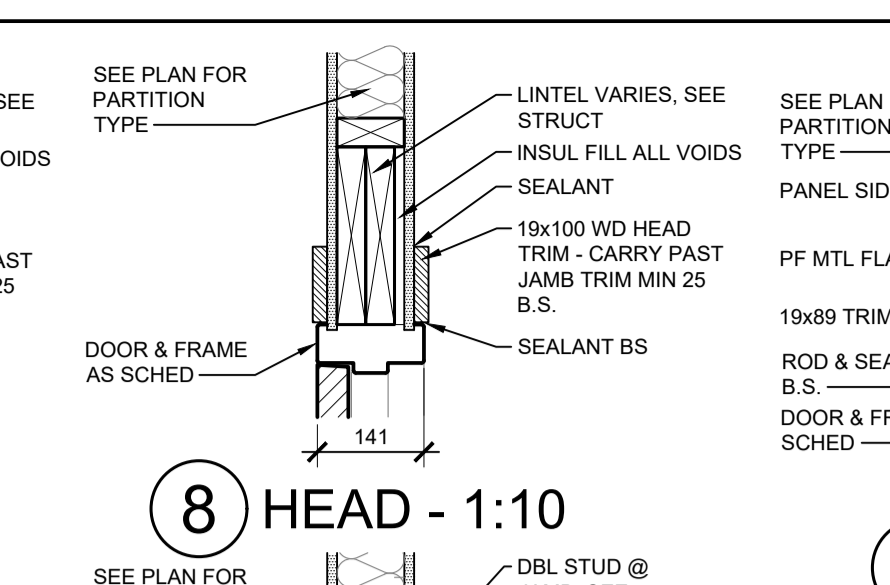
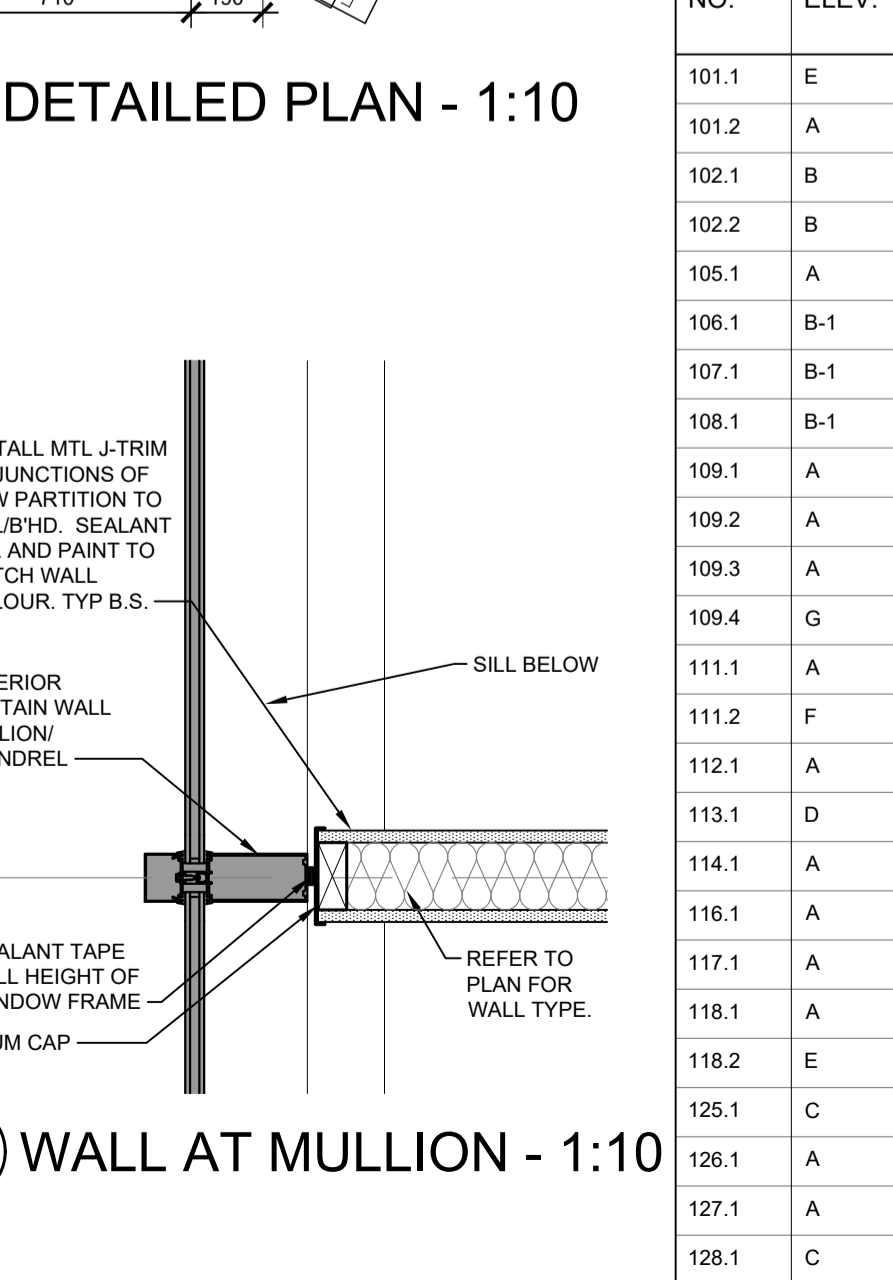
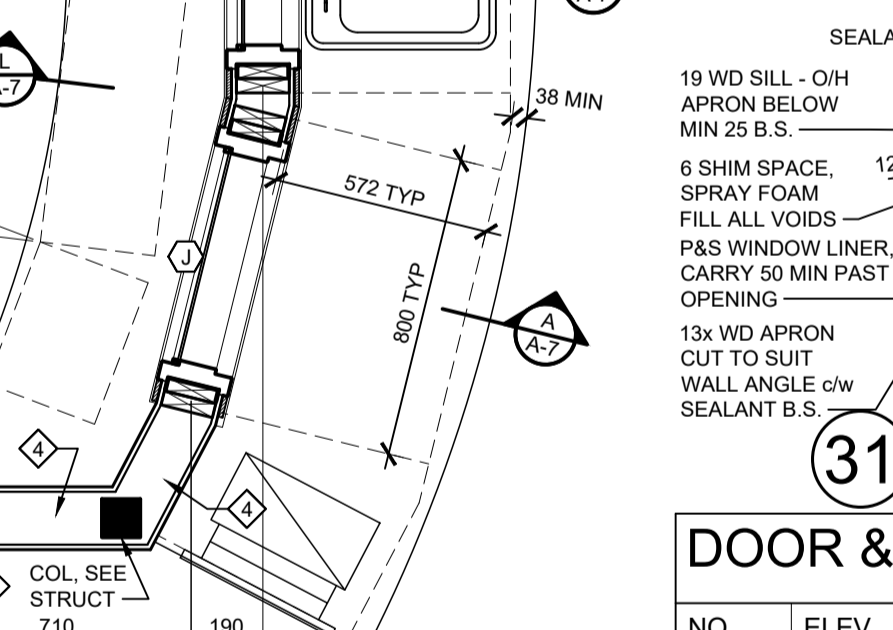
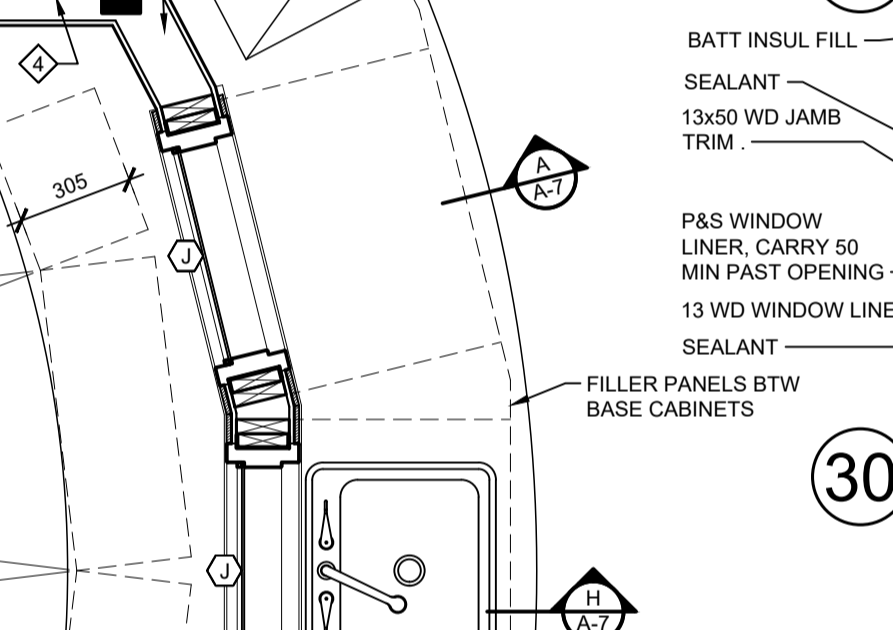
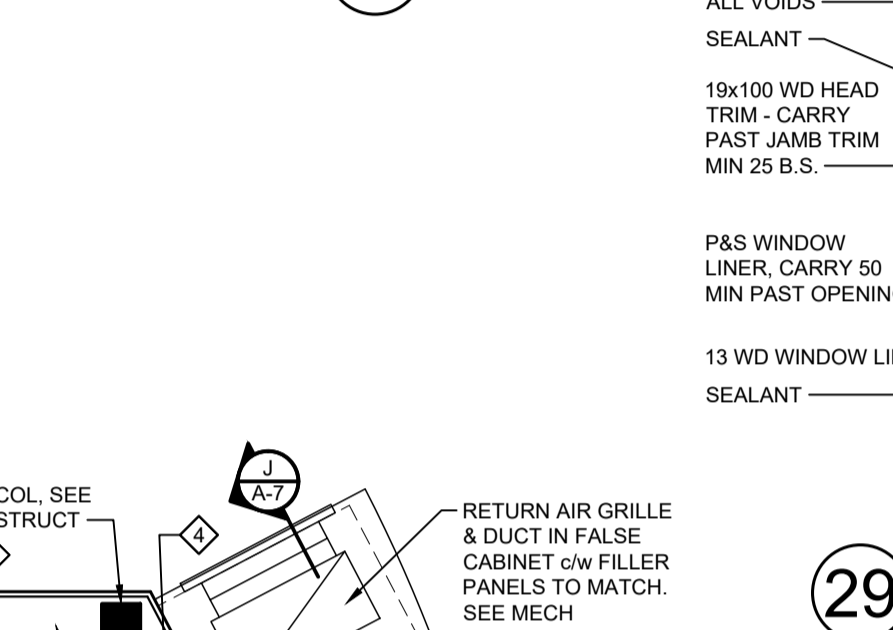
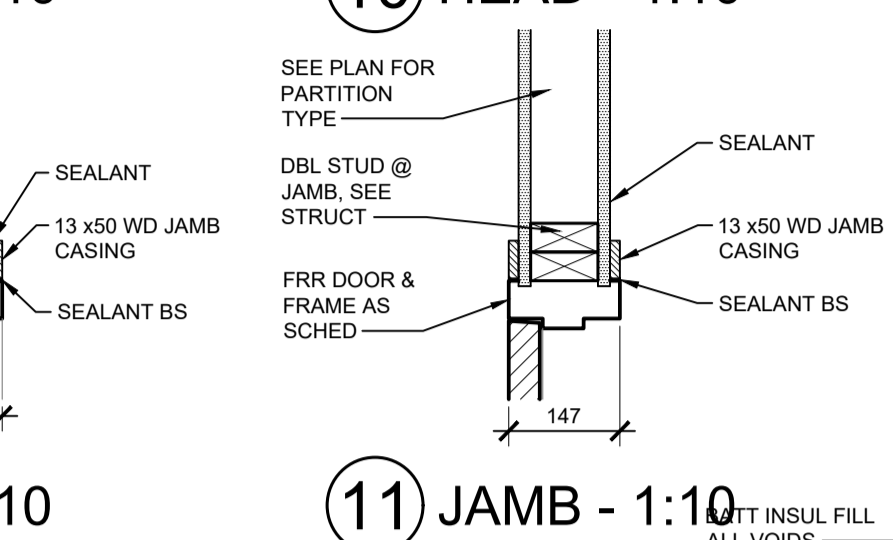
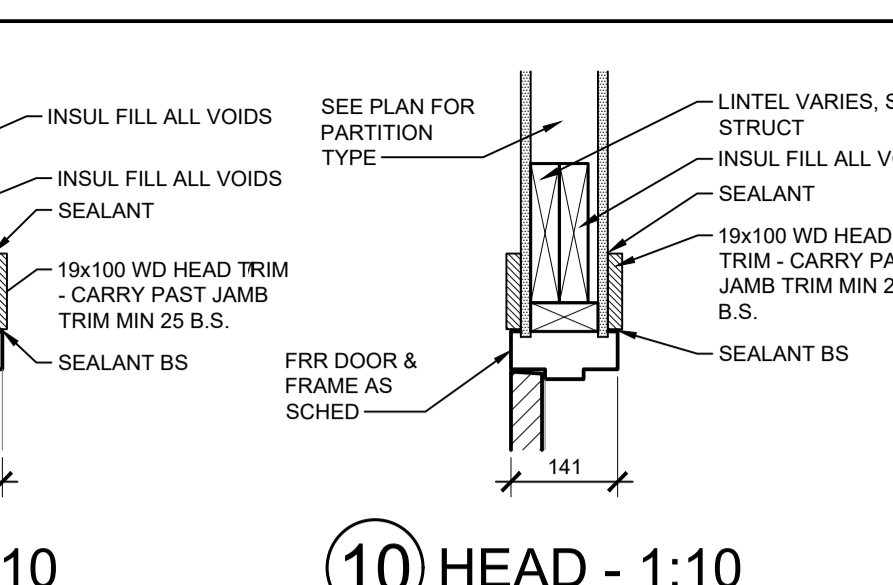
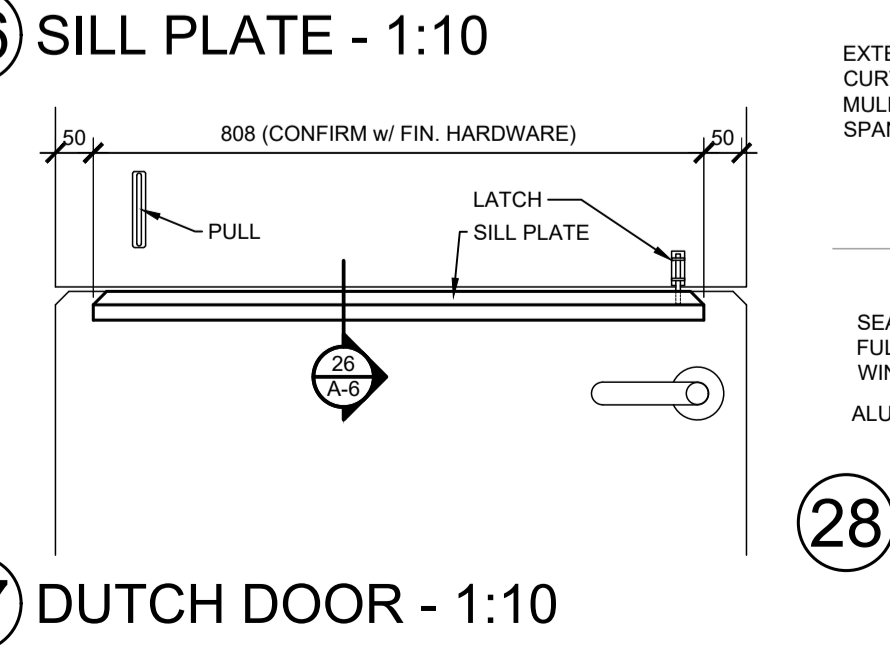
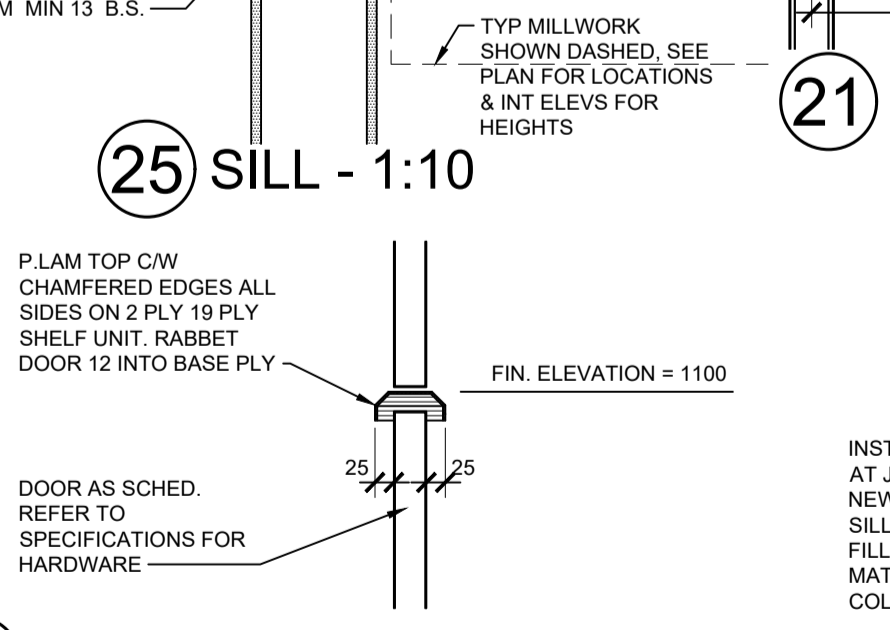
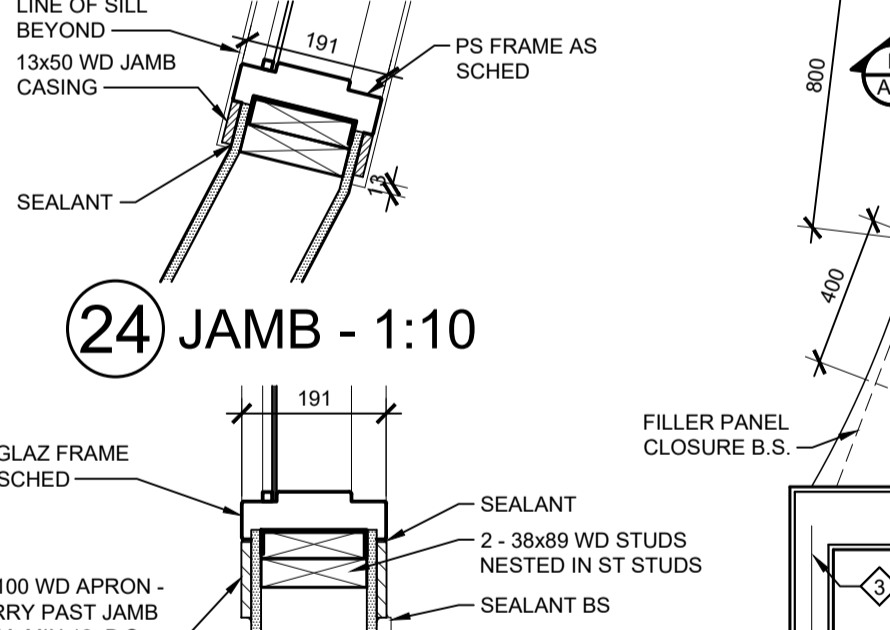
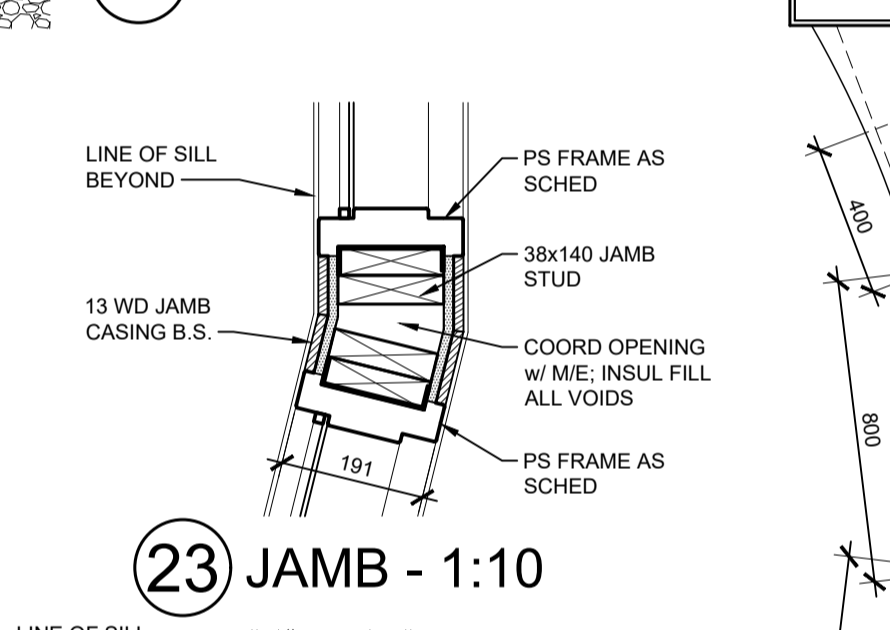
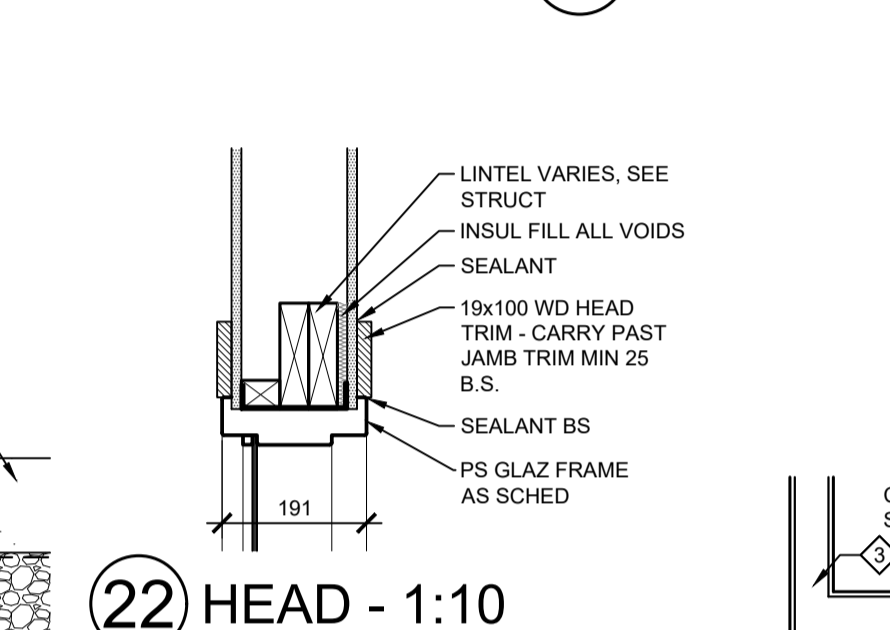
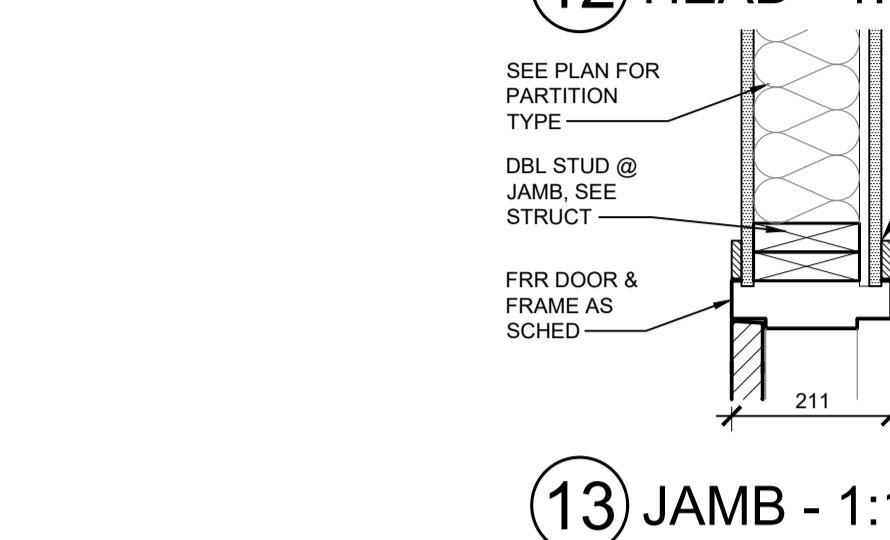
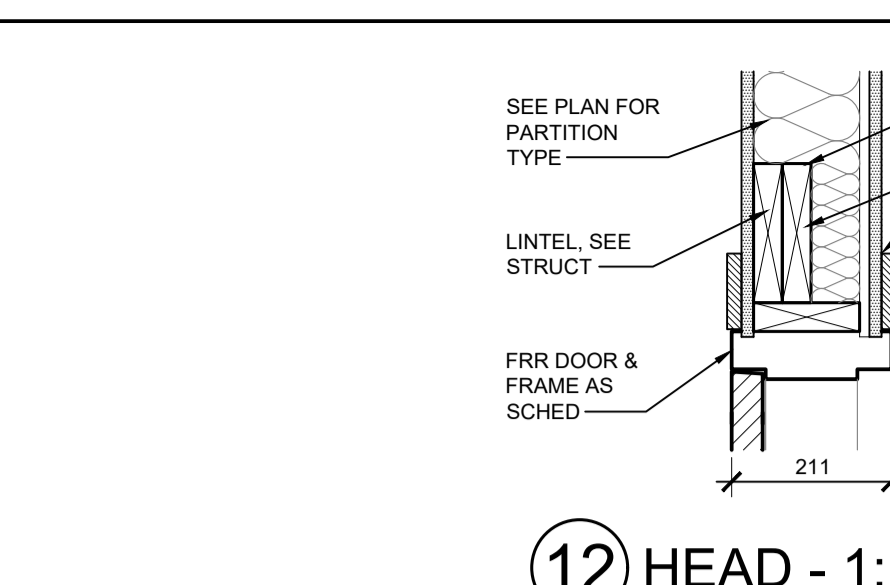
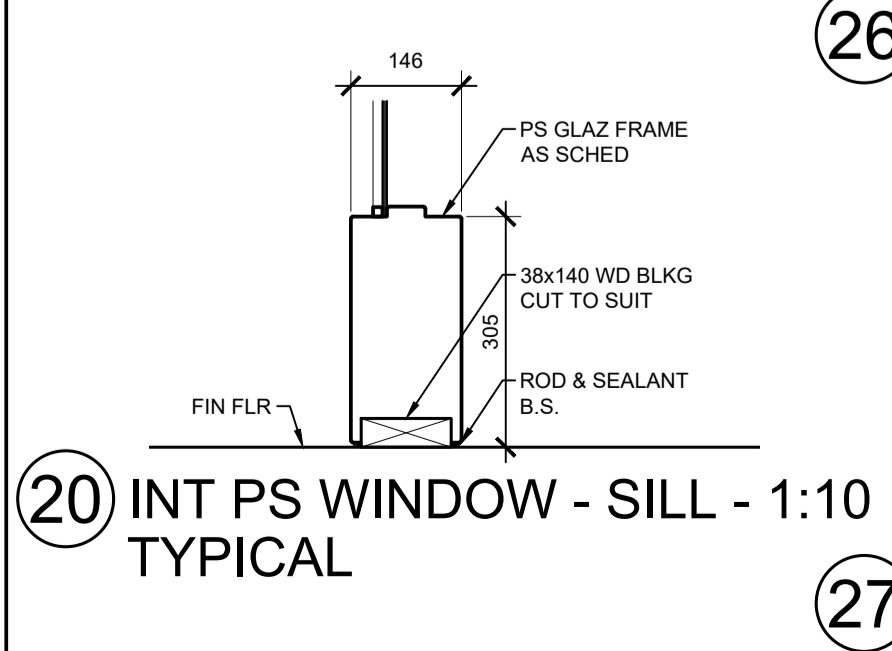
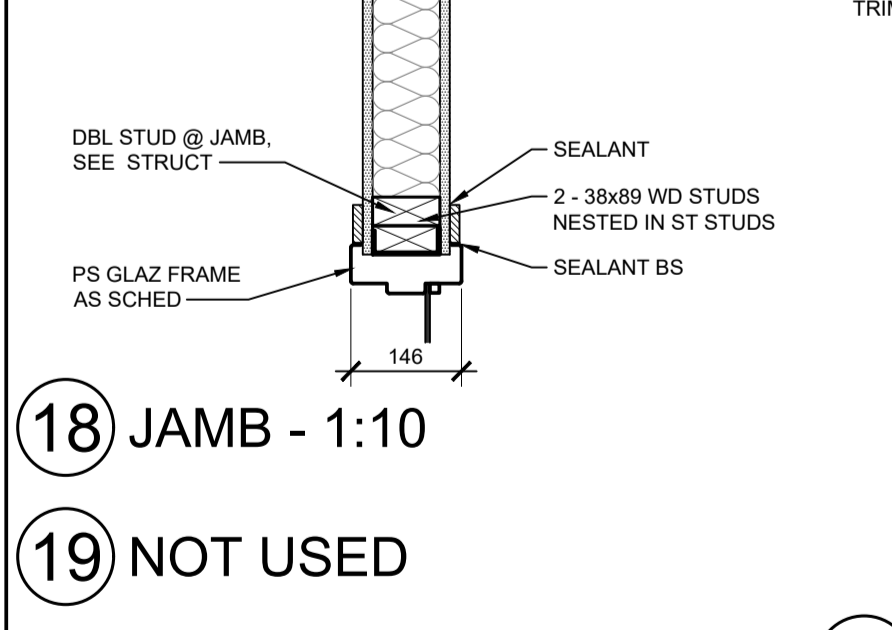
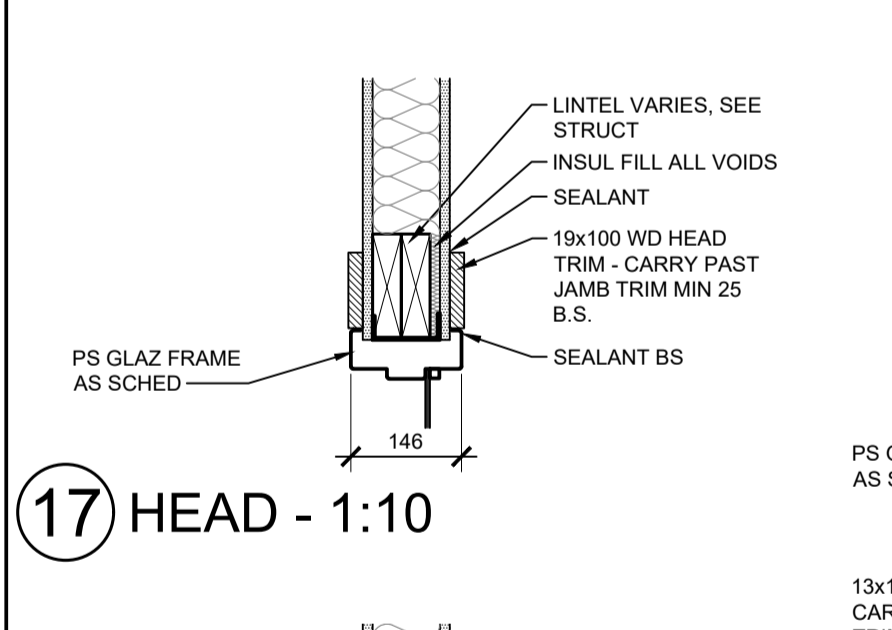
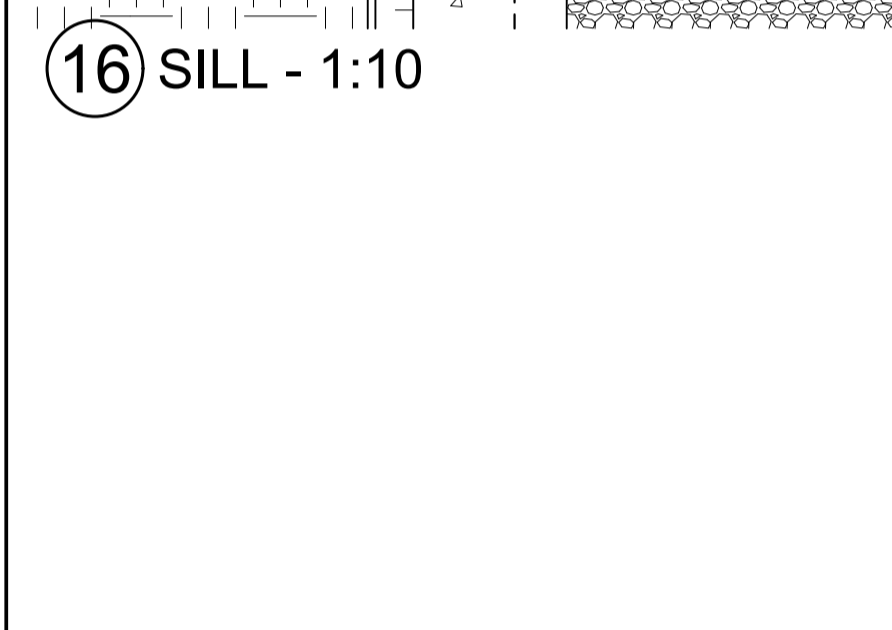
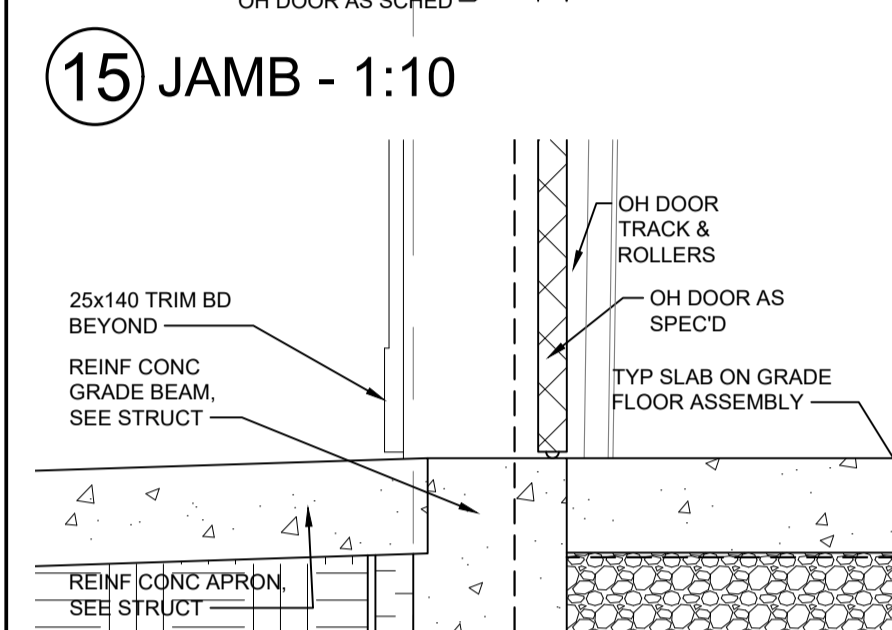
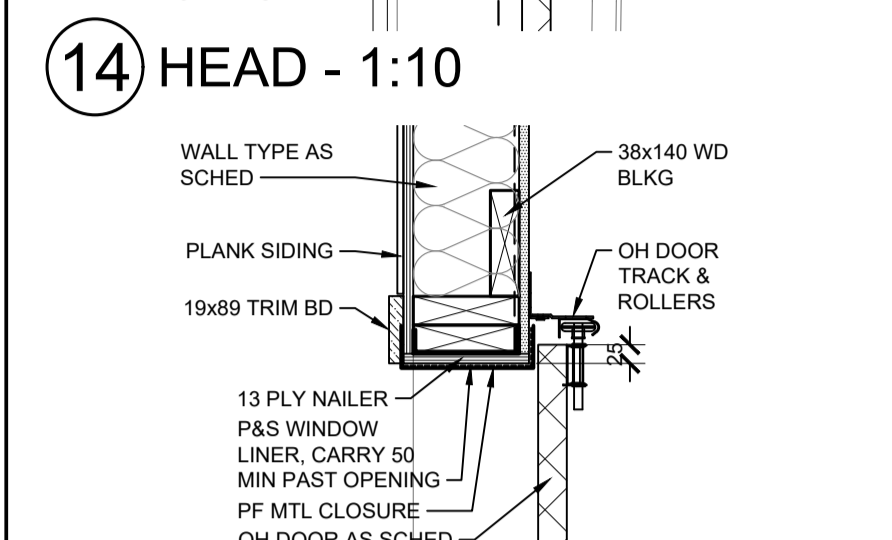
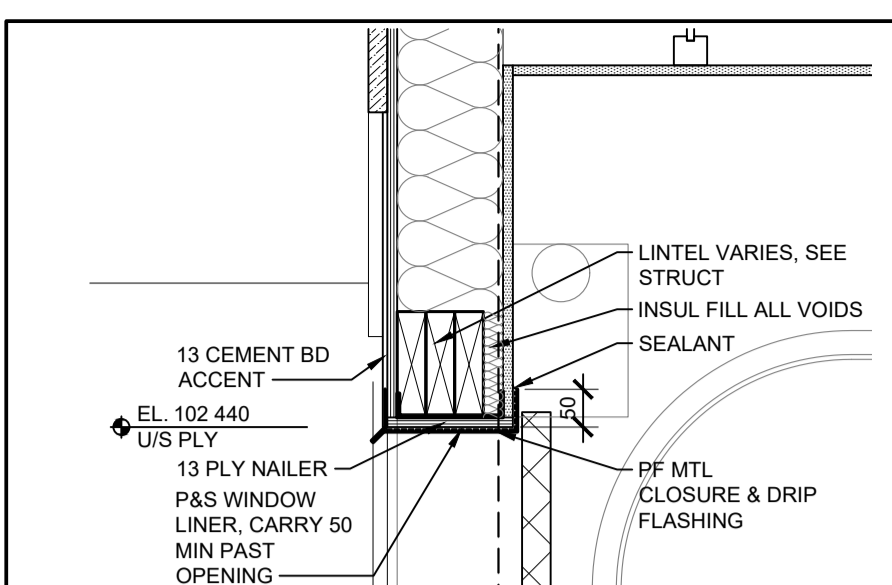
CLIENT INFORMATION:
OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRIES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRIES, SASKATCHEWAN

DRAWING TITLE:
DOOR AND WINDOW DETAILS
DETAILED PLANS

DRAWN BY: SHK	CHECKED BY: KD	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	DRAWING NO:	
22-117	A-6	

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DOOR & FRAME SCHEDULE

NO.	ELEV.	ROOM TO ROOM	SIZE	DOOR MAT.	FRAME TYPE	DTLS SEE	RATING	REMARKS
101.1	E	VESTIBULE - EXTERIOR	915 x 2135 x 1.75	HMI	PS	A-6	1, 2	AUTO-OP, CA & MAG
101.2	A	ROTUNDA - VESTIBULE	915 x 2135 x 1.75	HM	PS		8, 9	CA & MAG
102.1	B	PLAYRM - ROTUNDA	915 x 2135 x 1.75	SCW	PS		8, 9	
102.2	B	PLAYRM - ROTUNDA	915 x 2135 x 1.75	SCW	PS		8, 9	
105.1	A	ROTUNDA - WASHROOM	915 x 2135 x 1.75	SCW	PS		8, 9	
106.1	B-1	ROTUNDA - OFFICE	915 x 2135 x 1.75	SCW	PS		8, 9	
107.1	B-1	OFFICE - OFFICE	915 x 2135 x 1.75	SCW	PS		8, 9	
108.1	B-1	OFFICE - OFFICE	915 x 2135 x 1.75	SCW	PS		8, 9	
109.1	A	OFFICE - GARAGE	915 x 2135 x 1.75	HM	PS		12, 13	45 min CA
109.2	A	KITCHEN - GARAGE	915 x 2135 x 1.75	HM	PS		12, 13	45 min CA
109.3	A	EXTERIOR - GARAGE	915 x 2135 x 1.75	HMI	PS		6, 7	CA
109.4	G	EXTERIOR - GARAGE	OH DOOR				14, 15, 16	
111.1	A	GARAGE - STORAGE	915 x 2135 x 1.75	HM	PS		10, 11	45 min
111.2	F	EXTERIOR - STORAGE	OH DOOR				14, 15, 16	
112.1	A	GARAGE - MECHANICAL	915 x 2135 x 1.75	HM	PS		10, 11	45 min
113.1	D	KITCHEN - STORAGE	PAIR 715 x 2135 x 1.75	SCW	PS		8, 9	
114.1	A	PANTRY - KITCHEN	915 x 2135 x 1.75	SCW	PS		8, 9	
116.1	A	CORRIDOR - LAUNDRY	915 x 2135 x 1.75	SCW	PS		8, 9	
117.1	A	CORRIDOR - JANITOR	915 x 2135 x 1.75	SCW	PS		10, 11	45 min
118.1	A	ROTUNDA - VESTIBULE	915 x 2135 x 1.75	HM	PS		8, 9	
118.2	E	VESTIBULE - EXTERIOR	915 x 2135 x 1.75	HMI	PS		1, 2	AUTO-OP & MAG
125.1	C	CORRIDOR - WASHROOM	915 x 2135 x 1.75	SCW	PS		8, 9, 26, 27	DUTCH DOOR
126.1	A	PLAYRM - QUIET ROOM	915 x 2135 x 1.75	SCW	PS		8, 9	
127.1	A	PLAYRM - QUIET ROOM	915 x 2135 x 1.75	SCW	PS		8, 9	
128.1	C	PLAYRM - WASHROOM	915 x 2135 x 1.75	SCW	PS		8, 9, 26, 27	DUTCH DOOR

ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

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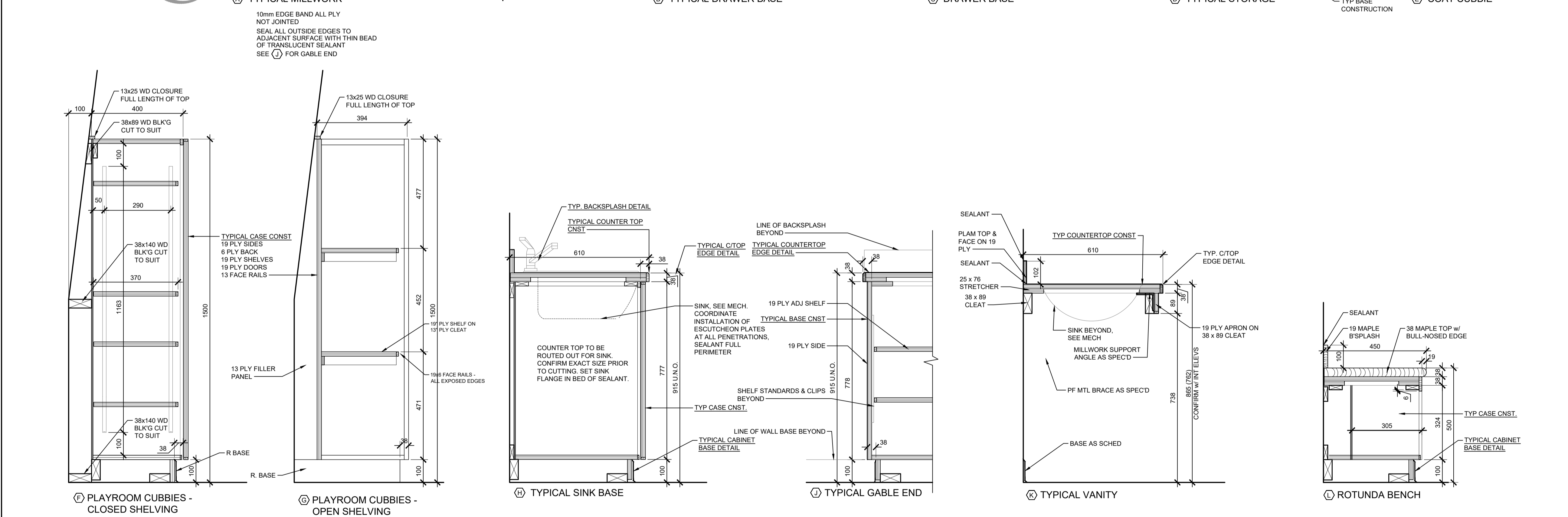
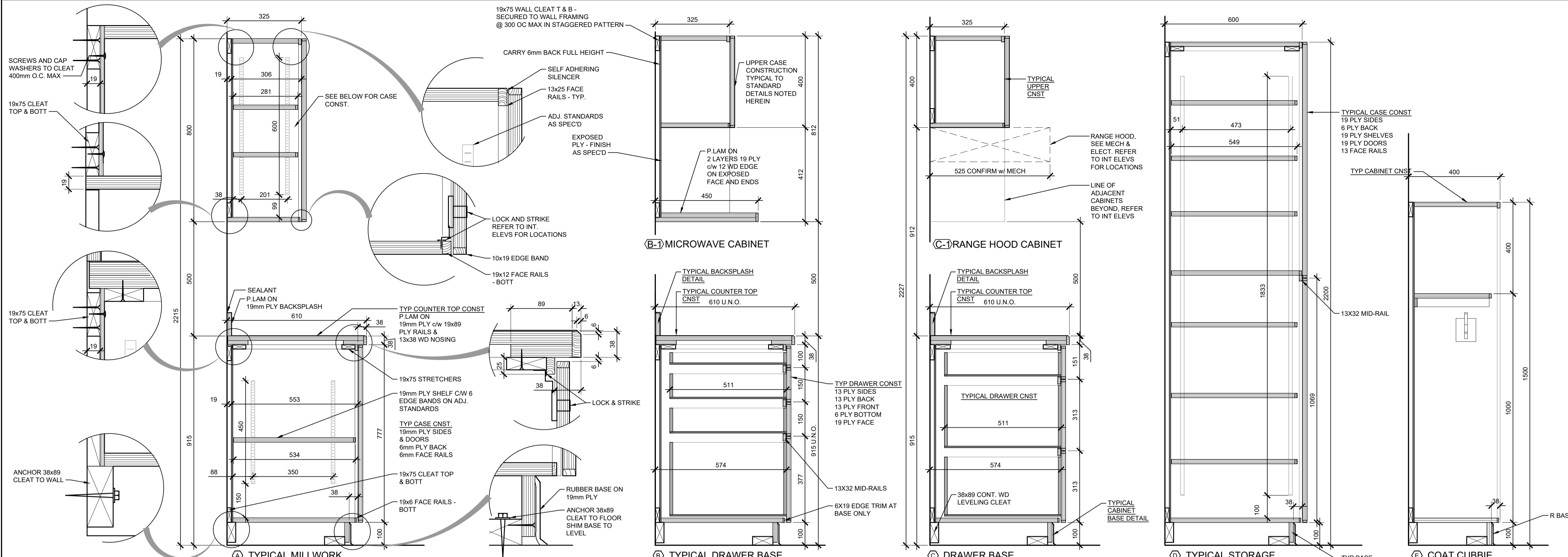
CLIENT INFORMATION:
OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
MILLWORK DETAILS

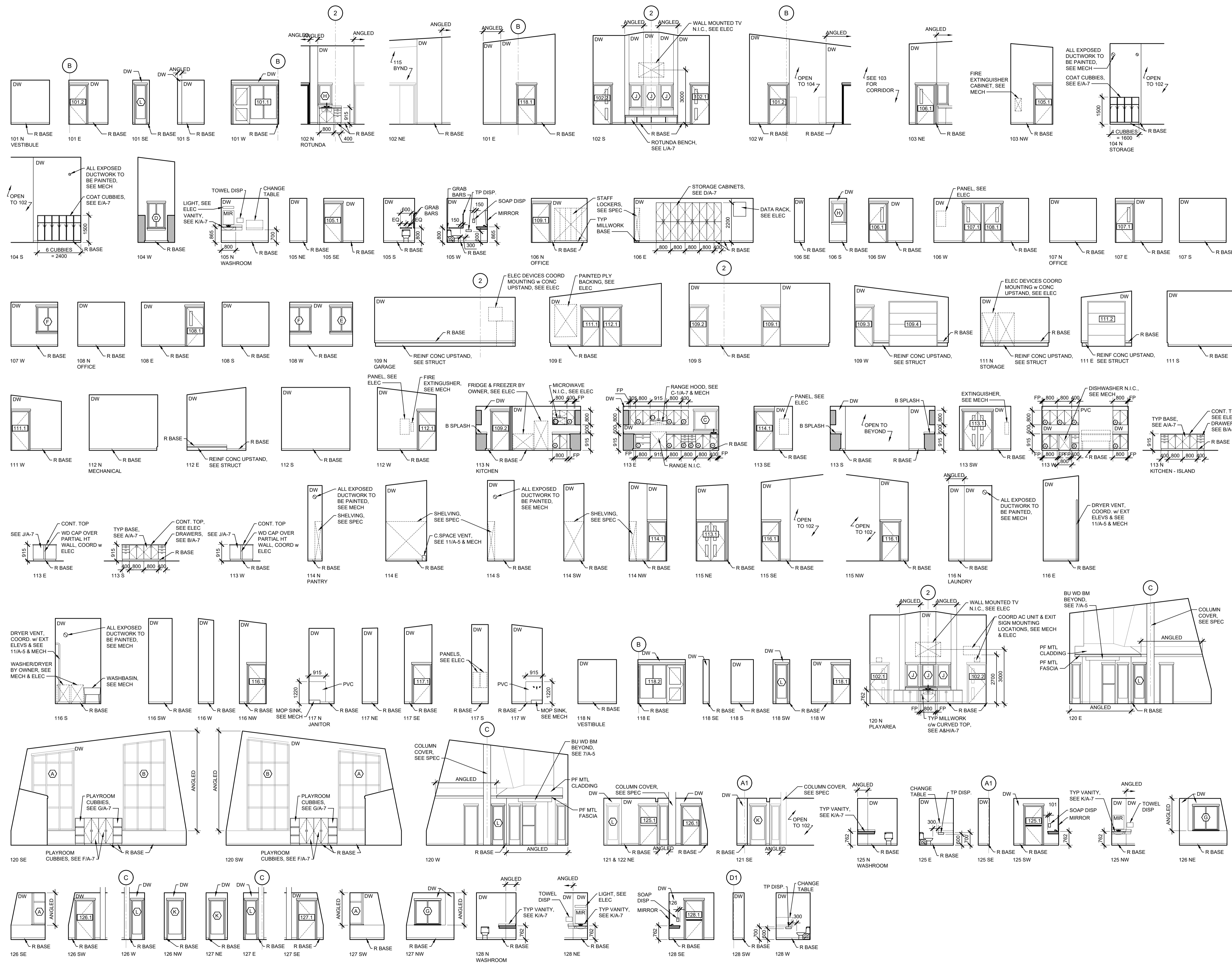
DRAWN BY: SHK	CHECKED BY: KD	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	22-117	DRAWING NO: A-7

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1 MILLWORK DETAILS - 1:10

1	ISSUE FOR BID	18 JUL 24
ISSUE	DESCRIPTION	DATE



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 P.O. BOX 759
 BALCARRES, SASKATCHEWAN
 SOG 0C0

PROJECT TITLE:
 PROPOSED CONSTRUCTION
 AHSOR HEADSTART FACILITY
 BALCARRES, SASKATCHEWAN

DRAWING TITLE:
 INTERIOR ELEVATIONS

DRAWN BY: SHK	CHECKED BY: KD	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	DRAWING NO:	
22-117		A-8
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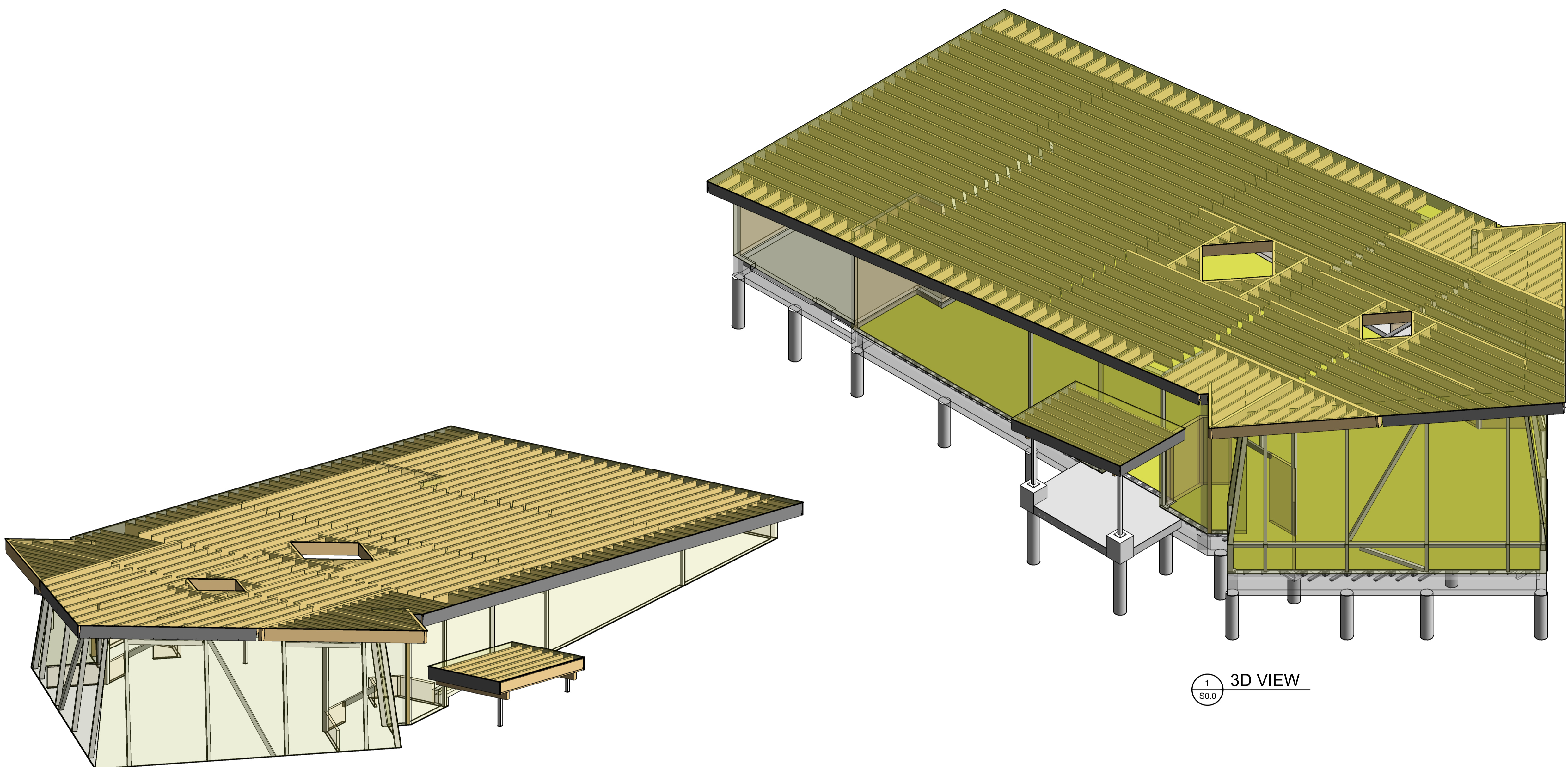
1 INTERIOR ELEVATIONS - 1:100



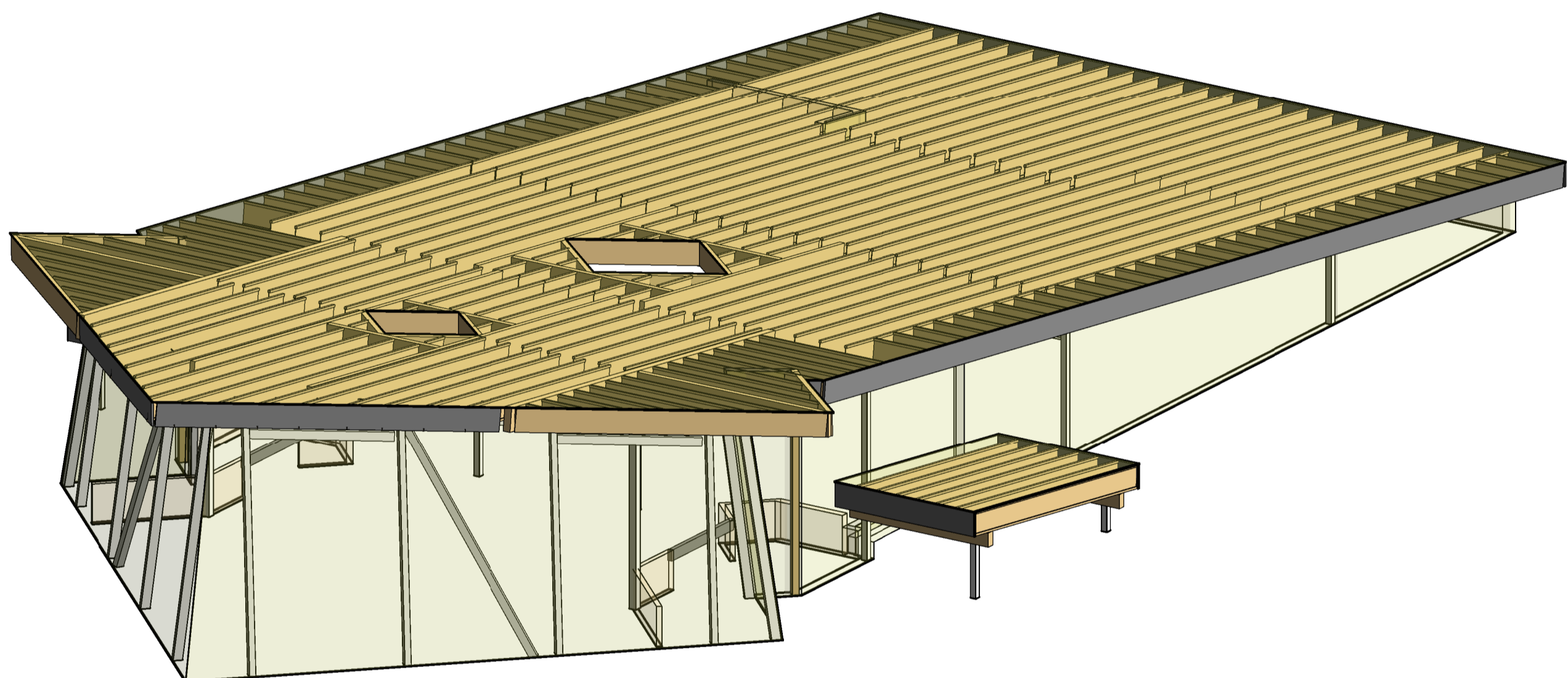
200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4R 1H5
PH: 306.585.2400
FK: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com
KREATE ARCHITECTURE AND DESIGN LTD.



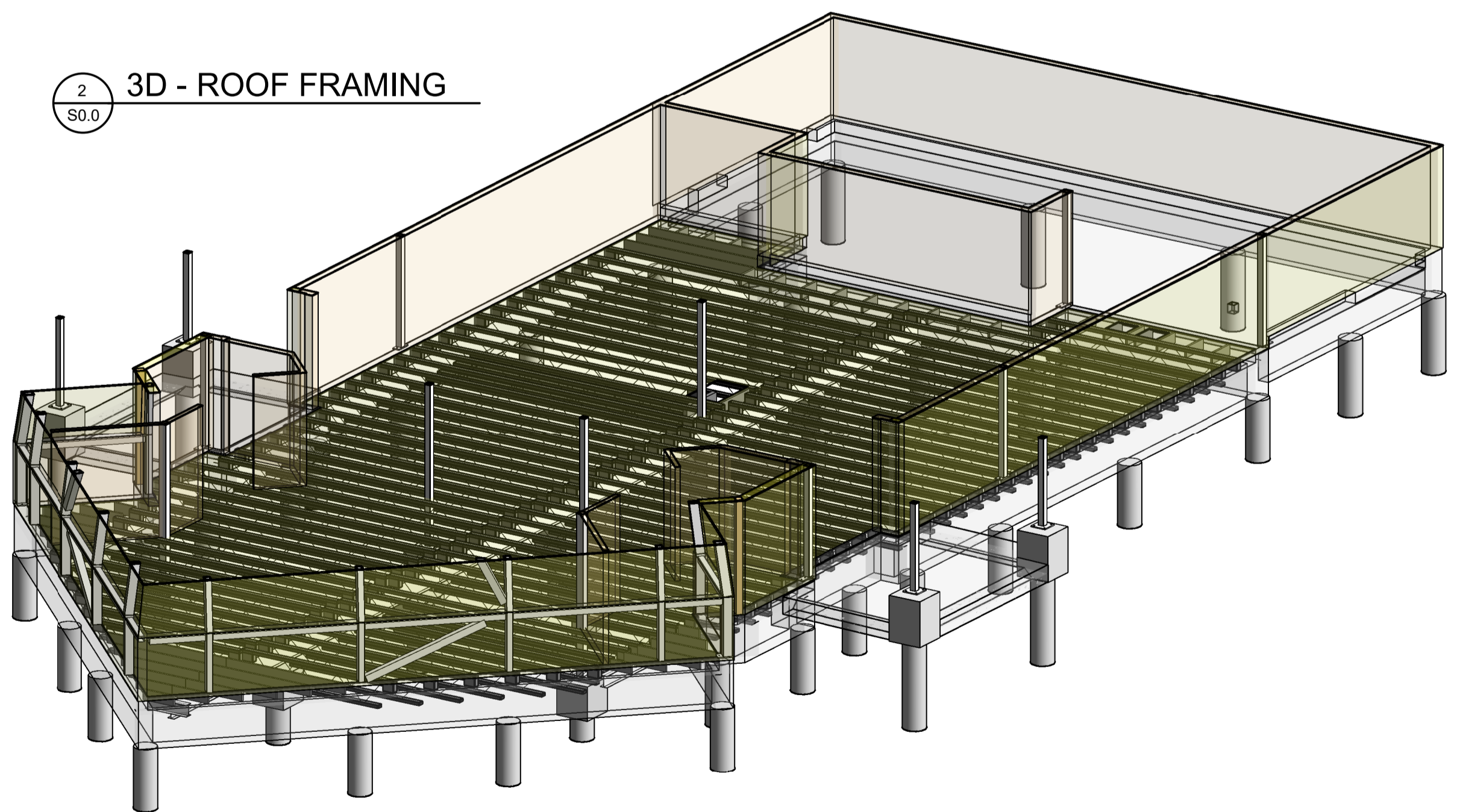
BBK
STRUCTURAL ENGINEERS
BROWNLEE BEATON KREKE



1 3D VIEW
S0.0



2 3D - ROOF FRAMING
S0.0



3 3D- MAIN FLOOR FRAMING
S0.0

ISSUE	DESCRIPTION	DATE
1	ISSUED FOR BID	18 JUL 24

18 JUL 24

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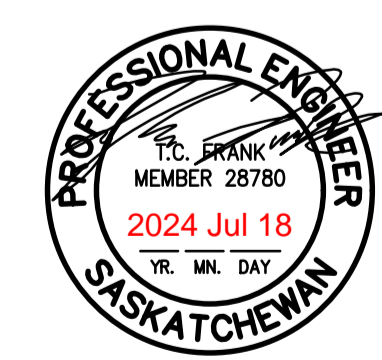
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S0G 0C0

PROJECT TITLE:

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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:

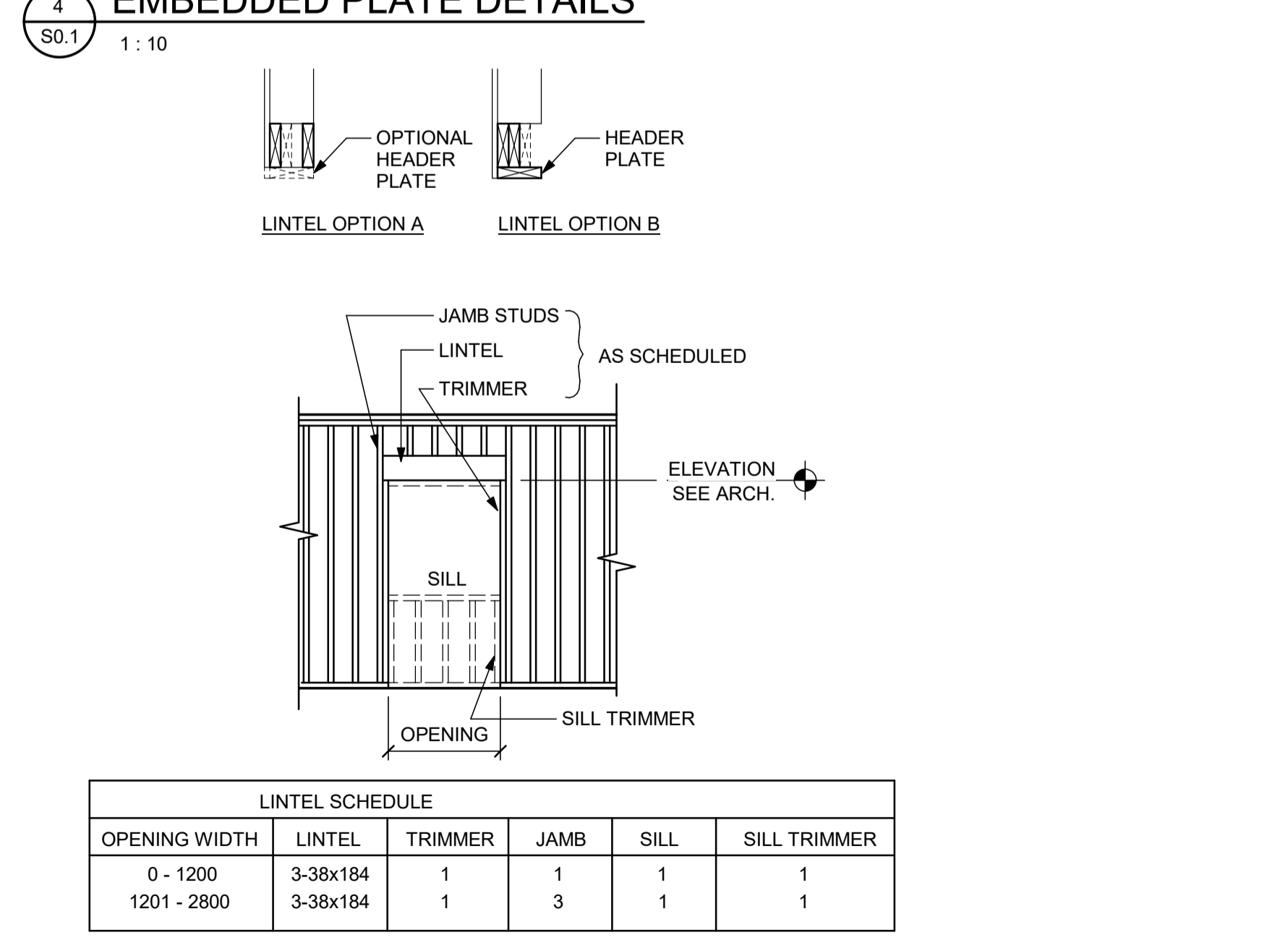
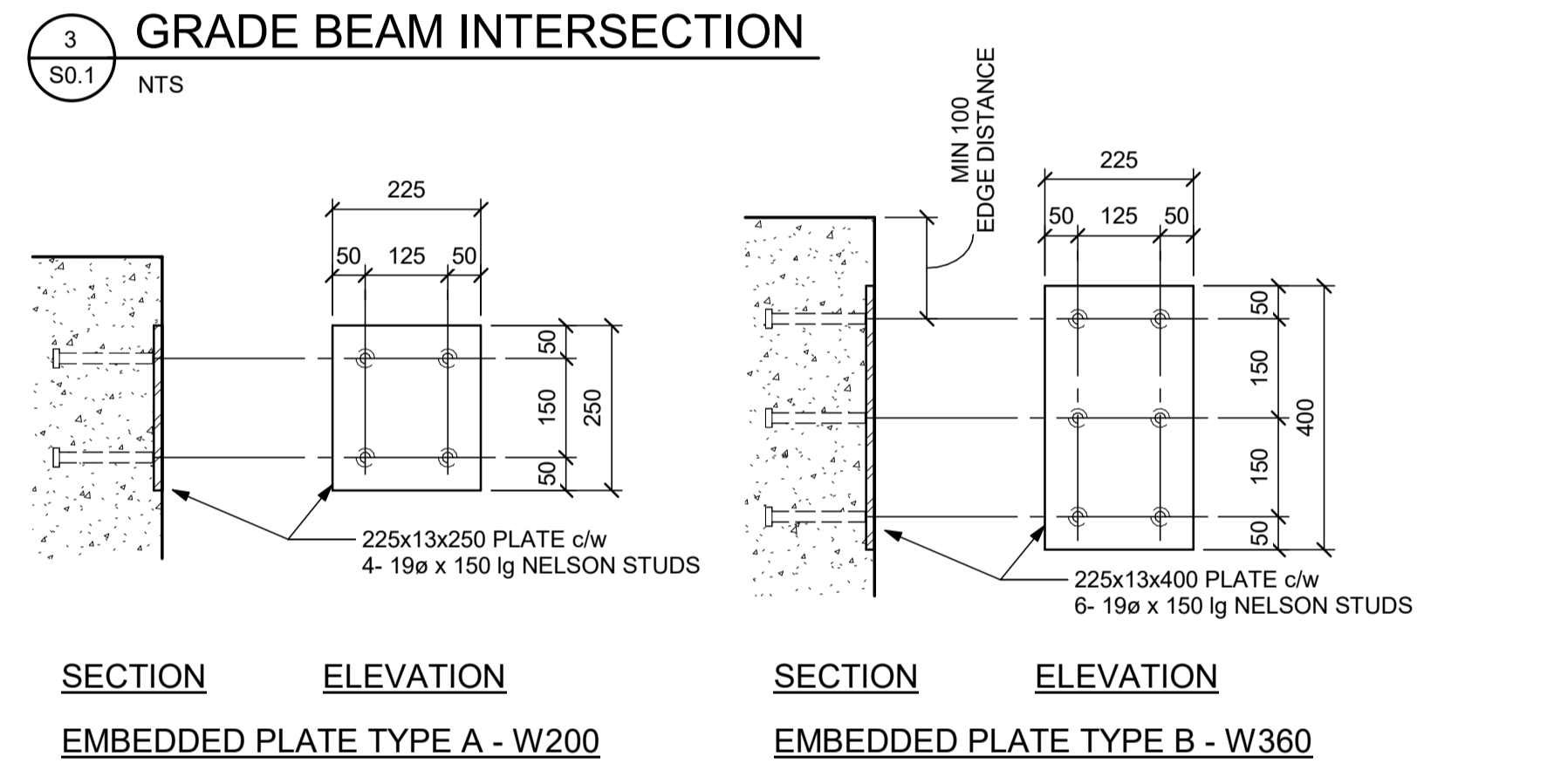
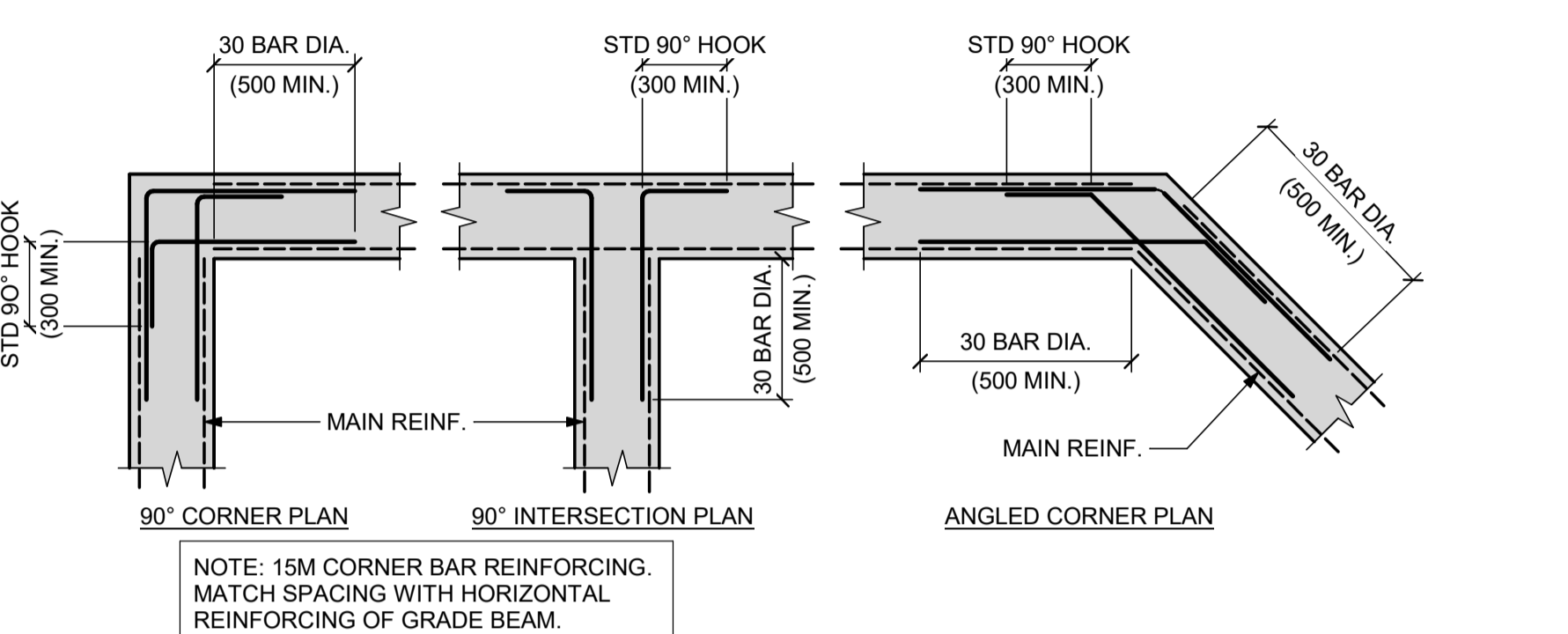
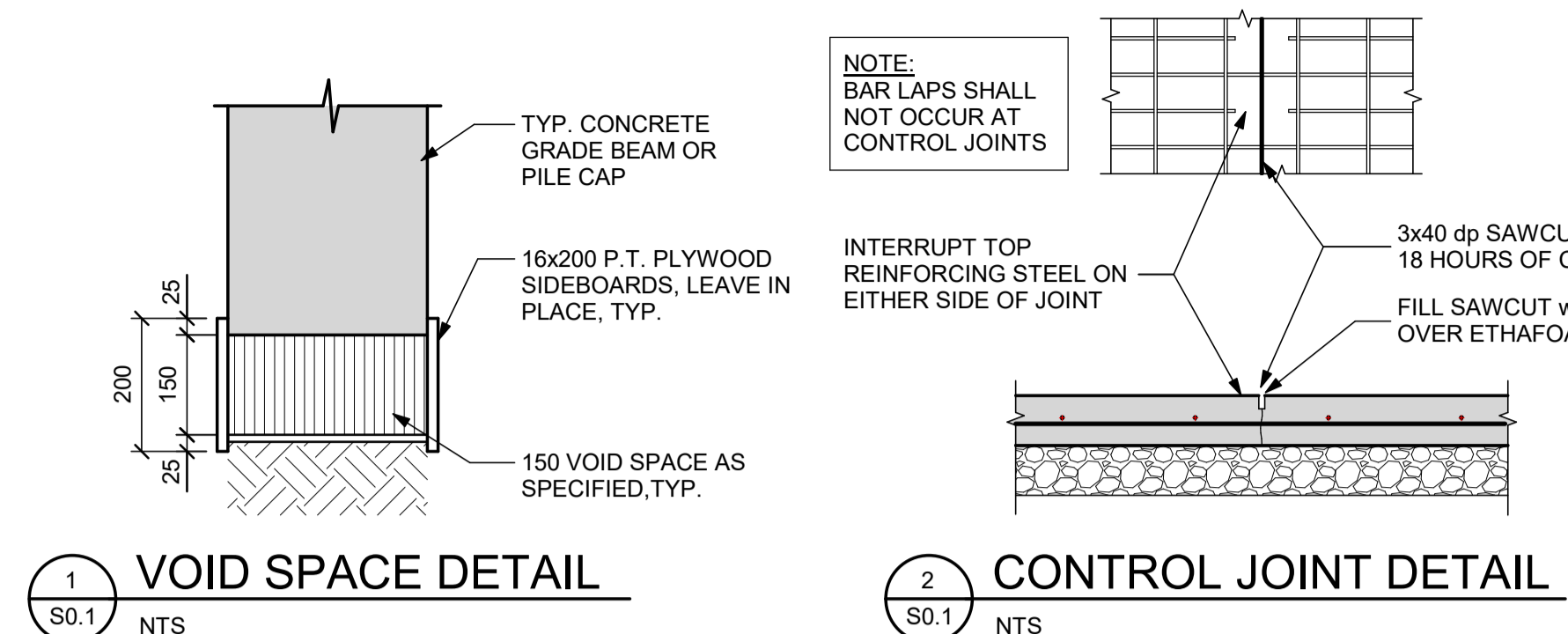
3D VIEWS



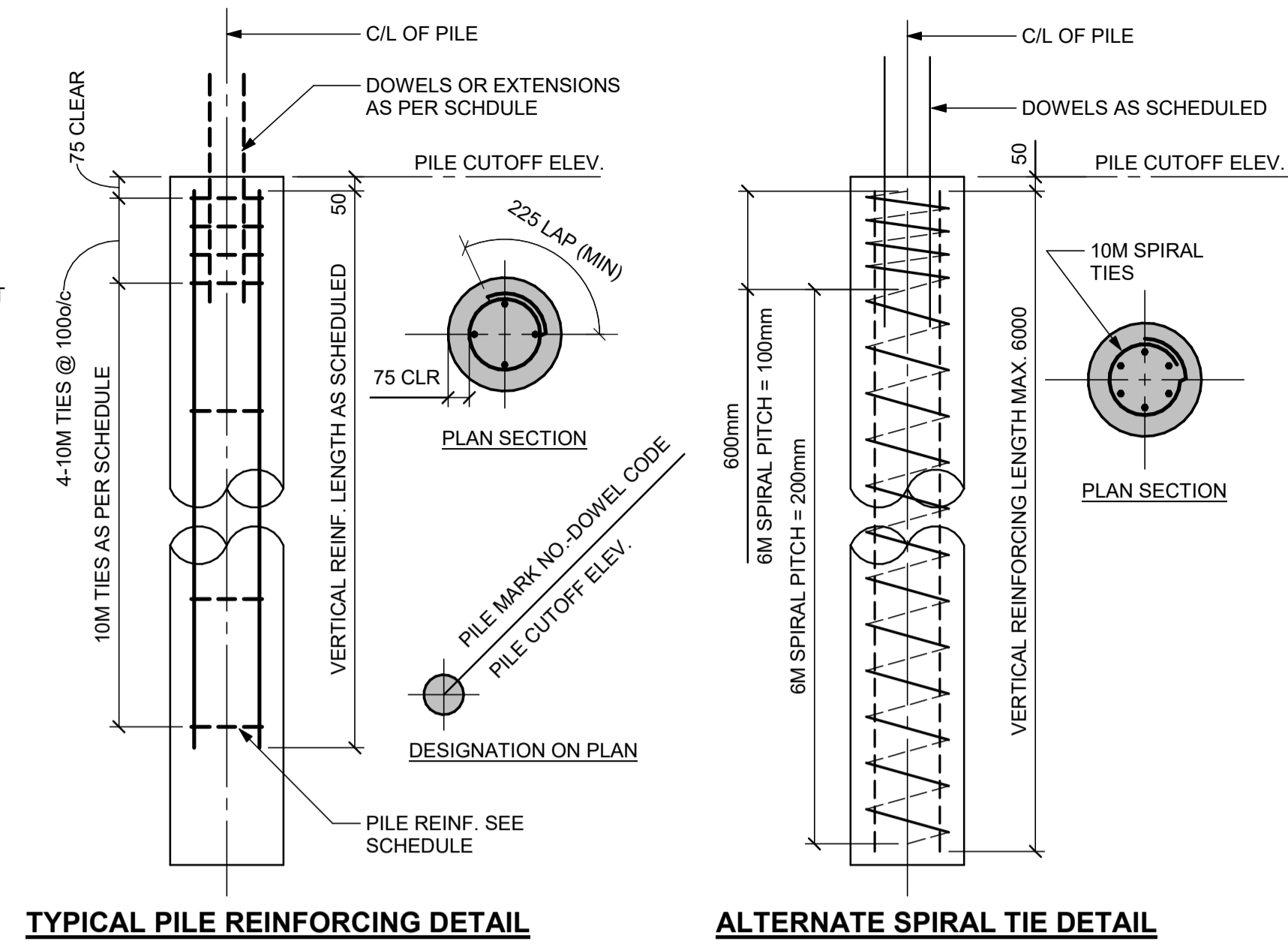
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NOTES:
 1. LINTEL AS PER SCHEDULE UNLESS NOTED OTHERWISE.
 2. 1201-2800 WIDE OPENINGS FOR SIDE WALLS ONLY. IF OPENINGS LARGER THAN 1200 WIDE ARE REQUIRED IN INTERIOR BRG. WALL LOC'NS, ADVISE ENGINEER FOR REVIEW PRIOR TO PROCEEDING.



PILE DESIGN CRITERIA
 PILE DESIGN CRITERIA TAKEN FROM GEOTECHNICAL REPORT PREPARED BY GROUND ENGINEERING CONSULTANTS LTD., FILE NO GE-2341, DATED JULY 14, 2023.

DEPTH BELOW GRADE (m)	FACTORED SKIN FRICTION	
	COMPRESSION	TENSION
0 - 2.5	0	0
BELOW 2m	36kPa	27kPa

FRICITION PILE SCHEDULE

TYPE MARK	DIAMETER (mm)	DEPTH	REINFORCING	
			VERTICALS	TIES
P401	400	6000	4-15Mx5500	10M @ 400 o/c
P402	400	7000	4-15Mx5500	10M @ 400 o/c
P403	400	8000	4-15Mx5500	10M @ 400 o/c
P404	400	10000	4-15Mx6700	10M @ 400 o/c

NOTES:
 1. ALL PILES TO BE CUTOFF AT ELEVATION DENOTED ON PLAN.
 2. ALL PILES CENTERED UNDER GRADE BEAMS OR PILE CAPS.
 3. SCHEDULED REINFORCING LENGTHS DO NOT INCLUDE EXTENSIONS OR HOOKS.
 4. CONTINUOUS SPIRAL TIES CAN BE USED IN LIEU OF ROUND TIES.
 5. SLEEVING IS NOT ANTICIPATED FOR THIS SITE. REFER TO THE GEOTECHNICAL REPORT FOR FURTHER INFORMATION.
 6. UPPER 2.0m OF PILE LENGTH DISCOUNTED FOR SKIN FRICTION RESISTANCE.
 7. GEOTECHNICAL RESISTANCE FACTORS OF 4 FOR COMPRESSION AND 3 FOR TENSION HAVE BEEN APPLIED TO THE ULTIMATE SKIN FRICTION TO DRIVE FACTORED CAPACITIES.
 8. CONCRETE IS TO BE PLACED INTO THE HOLES IMMEDIATELY FOLLOWING DRILLING AND REINFORCEMENT INSTALLATION.

DOWEL NOTES:
 A. EXTEND VERTICAL REINF. 550mm ABOVE PILE CUTOFF. (SPIRAL TIE ALTERNATE: 1300 lg DOWELS. SIZE AND QUANTITY TO MATCH VERTICAL PILE REINFORCING. EXTEND DOWELS 550mm ABOVE PILE CUTOFF. DOWELS TO BE TIED TO THE VERTICAL PILE REINFORCING. **WET SETTING NOT PERMITTED.**)
 B. EXTEND VERTICAL REINF. 500mm ABOVE PILE CUTOFF c/w 90° HOOKS. (SPIRAL TIE ALTERNATE: 1300 lg DOWELS c/w 90° HOOKS. SIZE AND QUANTITY TO MATCH VERTICAL PILE REINFORCING. EXTEND DOWELS 500mm ABOVE PILE CUTOFF. DOWELS TO BE TIED TO THE VERTICAL PILE REINFORCING. **WET SETTING NOT PERMITTED.**)
 C. 2-20M x 1100 lg. EXTEND 550 ABOVE PILE CUTOFF.
 D. 4-20M x 1100 lg. EXTEND 550 ABOVE PILE CUTOFF.
 E. EXTEND VERTICAL REINF. 735mm INTO STRUCTURAL SLAB AND BEND DOWN ON SITE. (SPIRAL TIE ALTERNATE: 1500 lg DOWELS. SIZE AND QUANTITY TO MATCH VERTICAL PILE REINFORCING. EXTEND DOWELS 750mm ABOVE PILE CUTOFF INTO STRUCTURAL SLAB AND BEND DOWN ON SITE. DOWELS TO BE TIED TO THE VERTICAL PILE REINFORCING. **WET SETTING NOT PERMITTED.**)



DESIGN CRITERIA
OKANESE FIRST NATION, SASK.

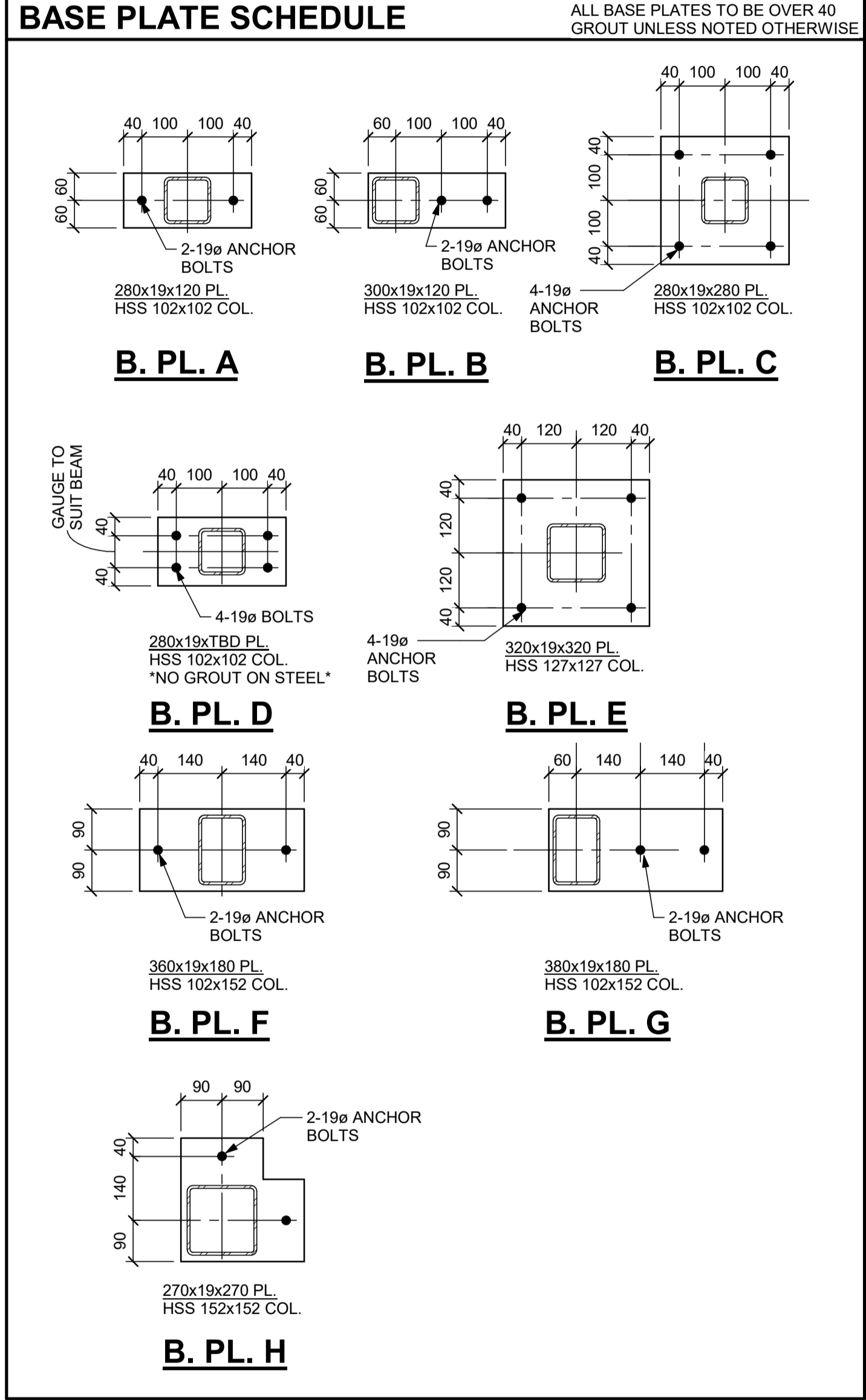
SNOW LOAD, 1/50	S _s = 1.7 kPa S _r = 0.1 kPa
HOURLY WIND PRESSURE	q (1/10) = 0.32 kPa q (1/50) = 0.40 kPa
SEISMIC DATA	S _a (0.2) = 0.153 S _a (0.5) = 0.143 S _a (1.0) = 0.0761 S _a (2.0) = 0.0316 S _a (5.0) = 0.00681 S _a (10.0) = 0.00205 PGA = 0.087 PGV = 0.0759
SITE DESIGNATION	SITE CLASS X ₀

COLUMN SCHEDULE

MARK NO.	COLUMN SIZE	REMARKS
C1	HSS102x102x4.8	
C2	HSS127x127x4.8	
C3	HSS152x102x6.4	CRANKED COLUMN
C4	HSS152x152x6.4	CRANKED COLUMN

DESIGNATION ON PLAN

TYP. 19e A BOLT DETAIL



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ISSUE	DESCRIPTION	DATE

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 BALCARRES, SASKATCHEWAN

DRAWING TITLE:
 TYPICAL DETAILS

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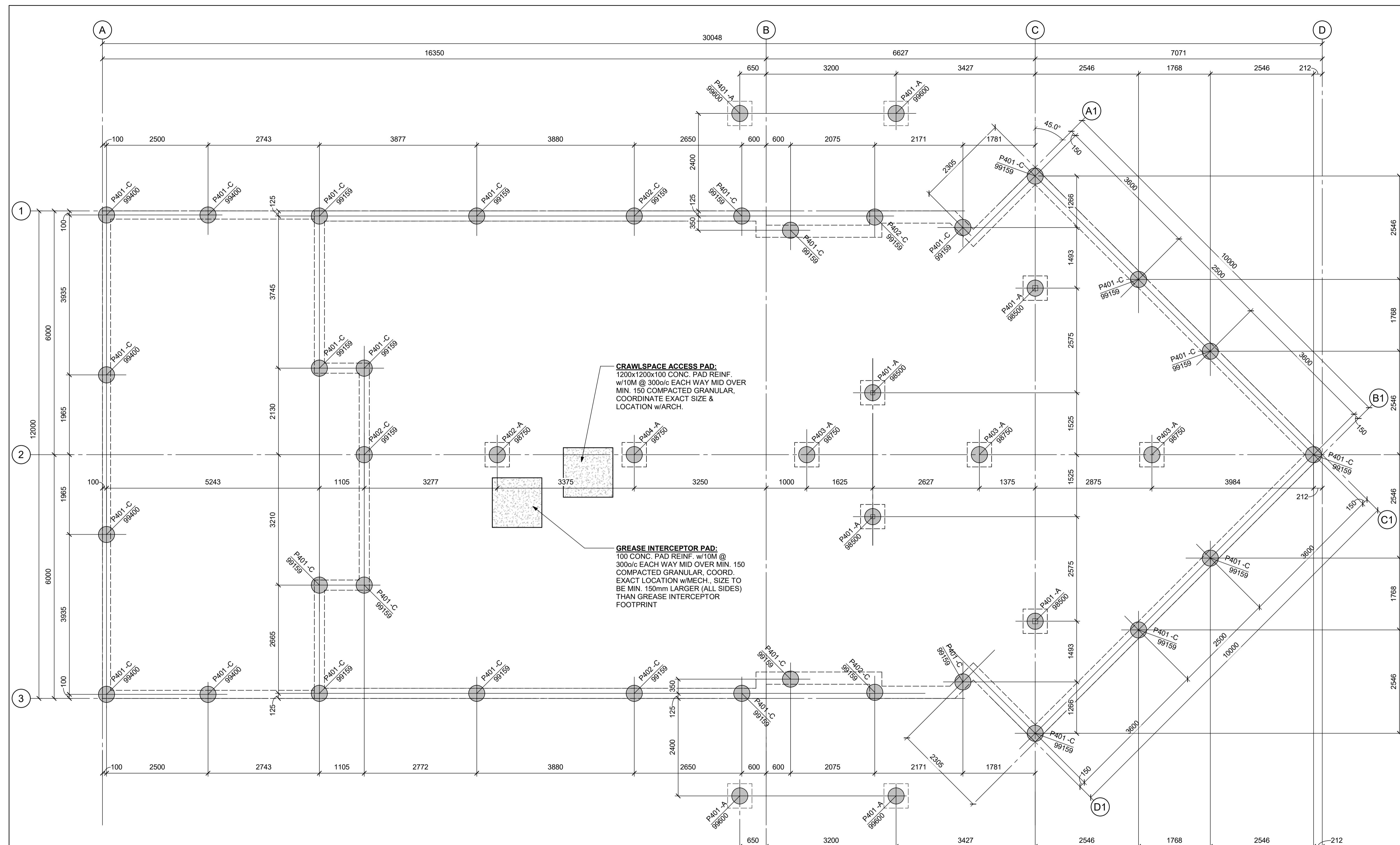
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DRAWING TITLE:
PILING PLAN

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SCALE: As indicated	DATE: 18 JUL 24	DATE:
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22-117	S2.1	

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PILING PLAN
1:50

- PILE PLAN NOTES:**
- PILE TYPE DENOTED THUS:
* REFER TO DETAIL & SCHEDULE 6/S0.1.
 - REFER TO ELECTRICAL DRAWINGS FOR SIZES, QUANTITIES & LOCATIONS OF PEDESTAL PILES & LIGHT STANDARD PILES.
 - REFER TO ARCHITECTURAL & LANDSCAPE DRAWINGS FOR PILE FOUNDATIONS FOR FLAG POLES.
 - T/O MAIN FLOOR CONCRETE @ ELEVATION 100000, GEODETIC = 631.40 (CONFIRM w/ARCHITECTURAL DRAWINGS).



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REGINA, SASKATCHEWAN
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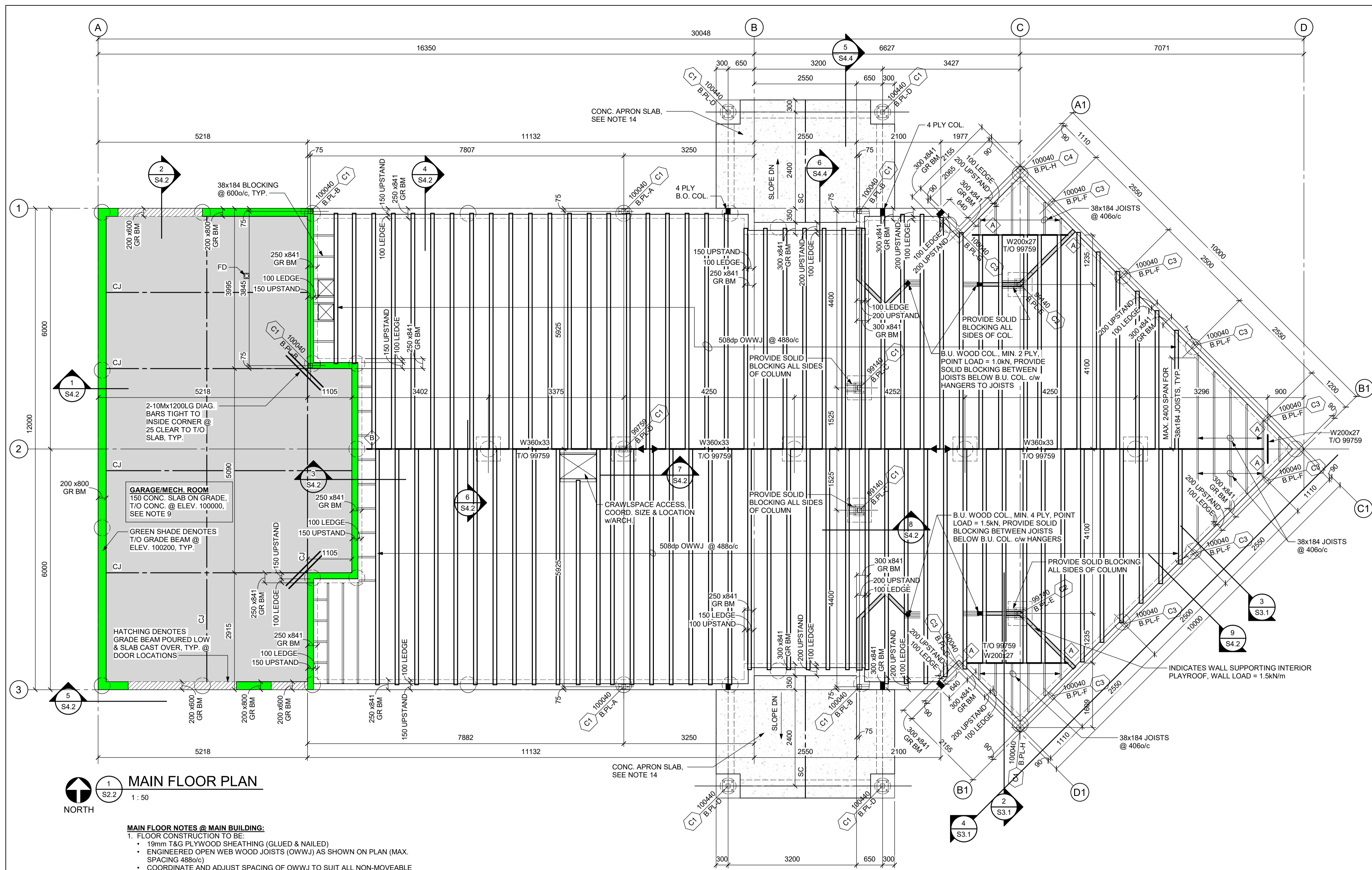
DRAWING TITLE:

MAIN FLOOR PLAN

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1 MAIN FLOOR PLAN
S2.2
1:50

NORTH

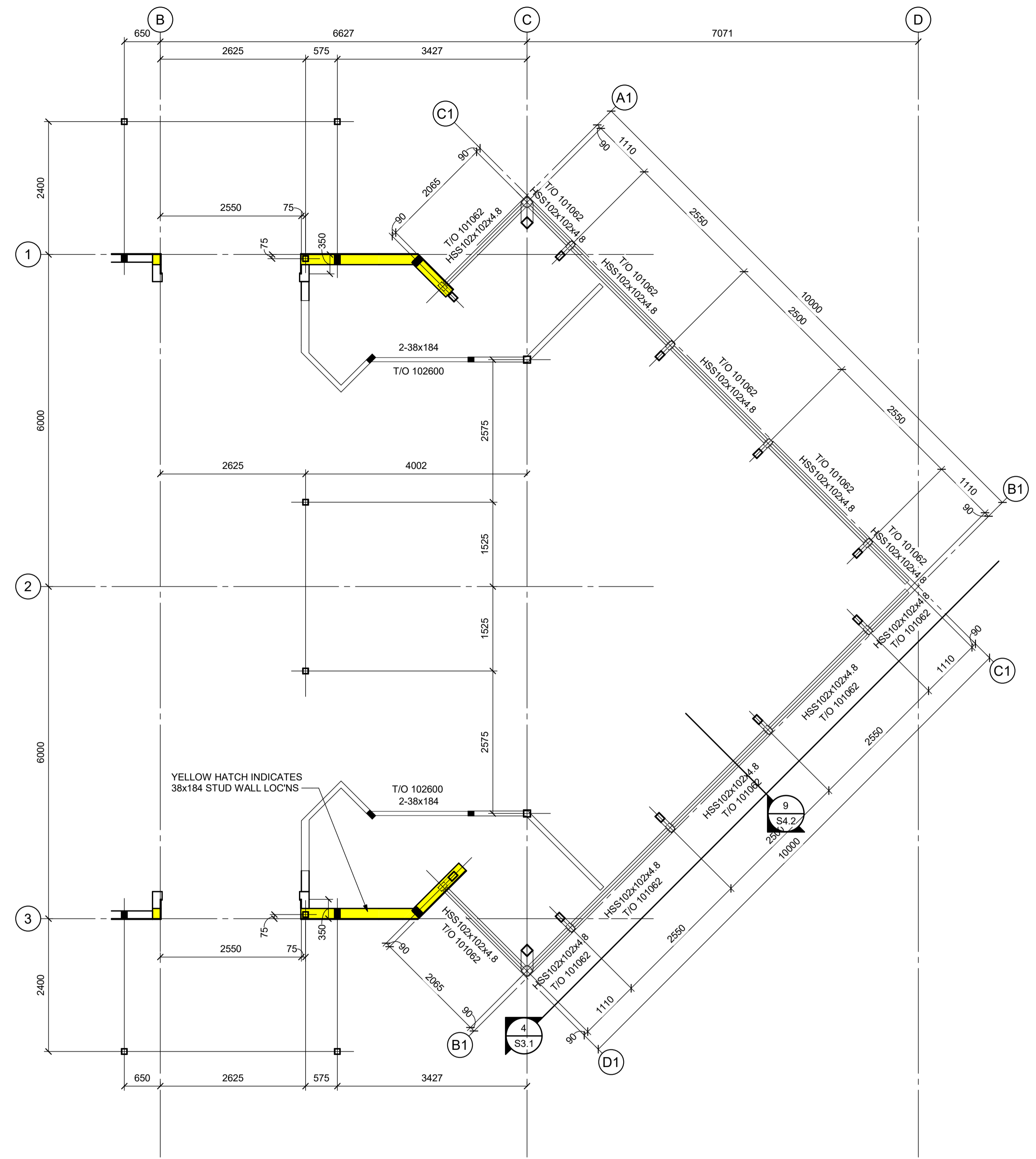
- MAIN FLOOR NOTES @ MAIN BUILDING:**
- 1. FLOOR CONSTRUCTION TO BE:**
 - 19mm T&G PLYWOOD SHEATHING (GLUED & NAILED)
 - ENGINEERED OPEN WEB WOOD JOISTS (OWWJ) AS SHOWN ON PLAN (MAX. SPACING 488o/c)
 - COORDINATE AND ADJUST SPACING OF OWWJ TO SUIT ALL NON-MOVEABLE PLUMBING FIXTURE DRAIN & STACK LOCATIONS. (ie. WATER CLOSETS, TUBS, ETC.) WATER CLOSETS & FLOOR DRAINS ARE FOR ILLUSTRATION PURPOSES ONLY. CONFIRM ALL SANITARY DRAINS w/MECHANICAL DRAWINGS.
 - 2. T/O SUBFLOOR @ ELEVATION 100000.**
 - 3. FLOOR DESIGN LOADS:**
 - LIVE LOAD = 4.8 kPa
 - PARTITION LOAD = 0.25 kPa
 - DEAD LOAD = 0.75 kPa
 - 4. PROVIDE VERTICAL GRAIN SOLID BLOCKING BELOW ALL B.U. COLUMNS, SIZE TO MATCH COLUMN, MIN. 3 PLY.**
 - 5. COLUMNS DENOTED ON PLAN THUS:**
 - SEE TYPICAL COLUMN & BASE PLATE SCHEDULE ON DRAWING S0.1.
 - 6. T/O STEEL BEAM ELEVATIONS DENOTED ON PLAN THUS: T/O xxxxxx.**
 - 7. REFER TO ARCHITECTURAL FOR FIRE RESISTANT COATING REQUIREMENTS ON STRUCTURAL STEEL.**
 - 8. EMBEDDED BEARING PLATES DENOTES ON PLAN THUS: [Symbol]**
REFER TO 4/SO.1 FOR DETAILS.

- MAIN FLOOR NOTES @ GARAGE/MECHANICAL ROOM:**
- 9. TYPICAL FLOOR CONSTRUCTION TO BE:**
 - 150 CONCRETE SLAB REINFORCED w/15M @ 400o/c EACH WAY MID-DEPTH.
 - POLY VAPOUR BARRIER (SEE ARCH.)
 - PREPARED SUBGRADE AS SPECIFIED
 - T/O MAIN FLOOR CONCRETE @ ELEVATION 100000.**
 - FLOOR DESIGN LOADS:**
 - LIVE LOAD = 4.8kPa
 - PARTITION LOAD = 1.0 kPa
 - 10. 'CJ' DENOTES CONTROL JOINT LOCATIONS, REFER TO DETAIL 2/SO.1.**
 - 11. 'FD' DENOTES APPROXIMATE FLOOR DRAIN LOCATIONS, COORDINATE w/MECHANICAL & ARCHITECTURAL DRAWINGS.**

- TYPICAL MAIN FLOOR NOTES:**
- 13. INSTALL 15M x 750 lg DOWELS @ 600 o/c TO EXTERIOR FOUNDATIONS WHERE SIDEWALKS OR SLABS ABUT BUILDING. (USE 20M DOWELS WHEN PLACED THRU RIGID INSULATION).**
 - 14. EXTERIOR CONCRETE APRON SLAB CONSTRUCTION TO BE:**
 - 150 CONCRETE STRUCTURAL SLAB ON PREPARED SUBGRADE REINFORCED w/15M @ 400o/c EACH WAY MID-DEPTH c/w REINFORCED THICKENED EDGE (SEE DETAIL 5/S4.4). DOWEL TO FOUNDATIONS & PILE CAPS TO MATCH SLAB & THICKENING REINFORCING.
 - TOP OF SLAB TO BE AT ELEVATION 99975 AND SLOPED AWAY FROM BUILDING. FLARE CONCRETE UP TO ELEVATION 100000 AT ACCESSIBLE EXITS, COORDINATE w/ARCHITECTURAL DRAWINGS.
 - 'SC' DENOTES 5mmx38mm SAW CUT, FILL JOINT w/ETHAFOAM ROD & EXTERIOR GRADE SEALANT.



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1 PLAN @ INTERIOR BEARING WALLS & SILL LEVEL
1 : 50

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DRAWING TITLE:
PLAN @ INTERIOR BEARING WALLS & SILL LEVEL

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DRAWING TITLE:

ROOF PLAN

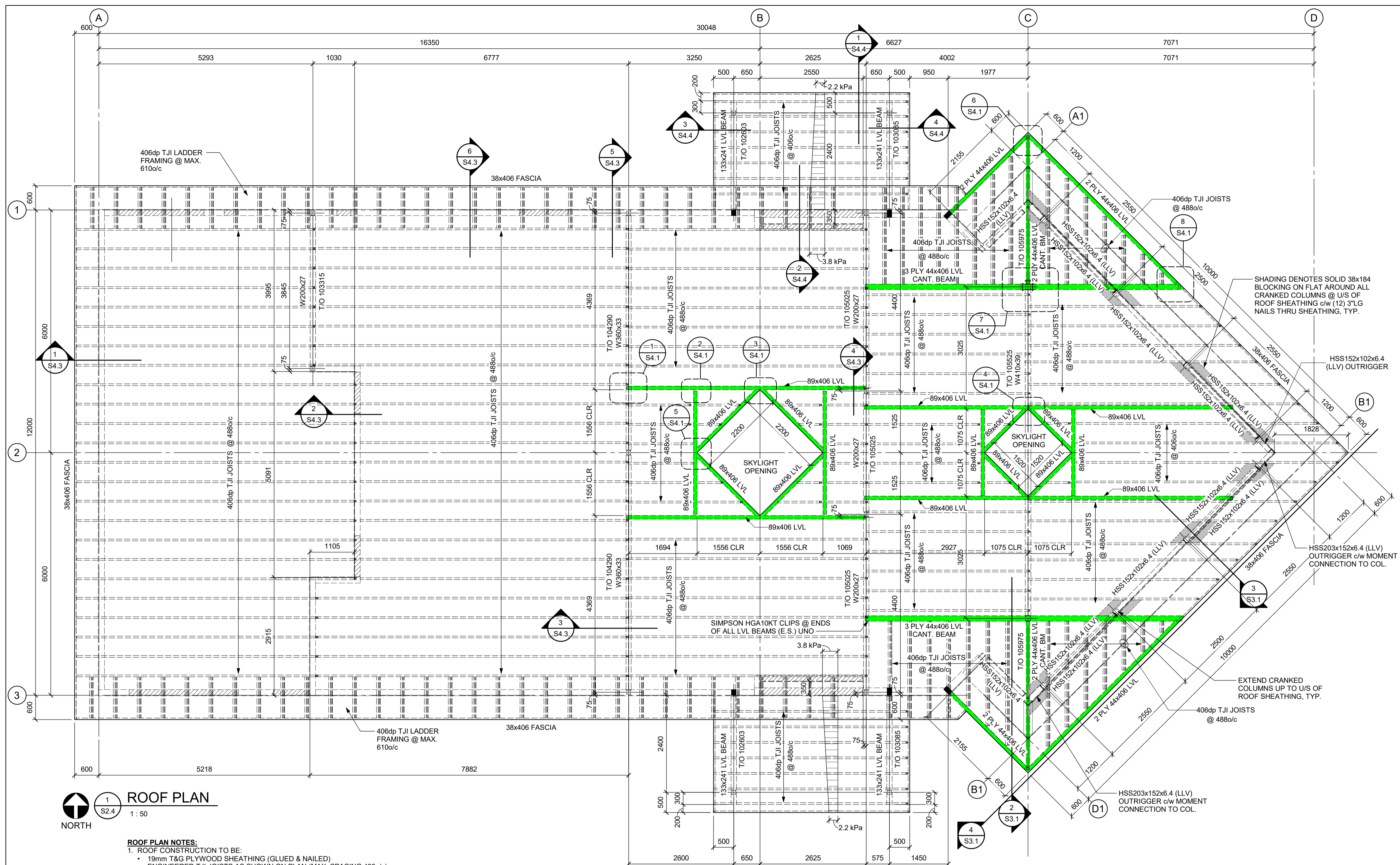
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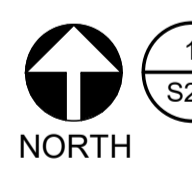
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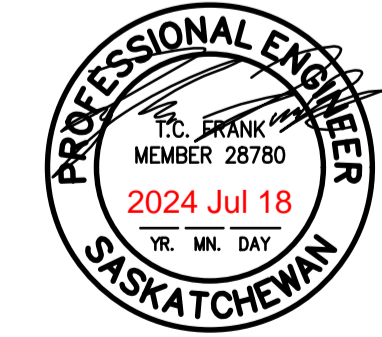


ROOF PLAN

1:50



- ROOF PLAN NOTES:**
- ROOF CONSTRUCTION TO BE:
 - 19mm T&G PLYWOOD SHEATHING (GLUED & NAILED)
 - ENGINEERED TJI JOISTS AS SHOWN ON PLAN (MAX. SPACING 488o/c)
 - COORDINATE AND ADJUST SPACING OF O/W/J TO SUIT ALL NON-MOVEABLE ROOF OPENINGS. COORDINATE w/ARCHITECTURAL & MECHANICAL DRAWINGS.
 - T/O SHEATHING @ ELEVATION VARIES.
 - ROOF DESIGN LOADS:
 - DEAD LOAD = 1.0 kPa
 - SNOW LOAD = 1.46 kPa (PLUS APPLICABLE BUILT-UP SNOW AS PER N.B.C.C.)
 - NET NEGATIVE UPLIFT = 0.5 kPa (MAIN ROOF)
 - NET NEGATIVE UPLIFT = 1.0 kPa (SOFFITS)
 - WALL CONSTRUCTION TO BE:
 - EXTERIOR:
 - 38x140 OR 38x184 STUDS @ MAX. 406o/c, SPF #2 OR BETTER
 - 13mm SHEATHING
 - SOLID BLOCKING @ MAX. 1220o/c
 - INTERIOR:
 - 38x140 STUDS @ MAX. 406o/c, SPF #2 OR BETTER
 - SOLID BLOCKING @ MAX. 1220o/c
 - FOR WALL OPENING FRAMING, REFER TO DETAIL 5/S0.1 FOR TYPICAL LINTEL SCHEDULE.
 - T/O STEEL BEAM ELEVATIONS DENOTED ON PLAN THUS: T/O xxxxxx.
 - REFER TO ARCHITECTURAL FOR FIRE RESISTANT COATING REQUIREMENTS ON STRUCTURAL STEEL.
 - WHERE JOISTS ABUT LVL BEAMS, SLOPED FACE & TOP MOUNTED JOIST HANGERS ARE TO BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER TO SUIT THE SPECIFIED LOAD REQUIREMENTS.



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REGINA, SASKATCHEWAN
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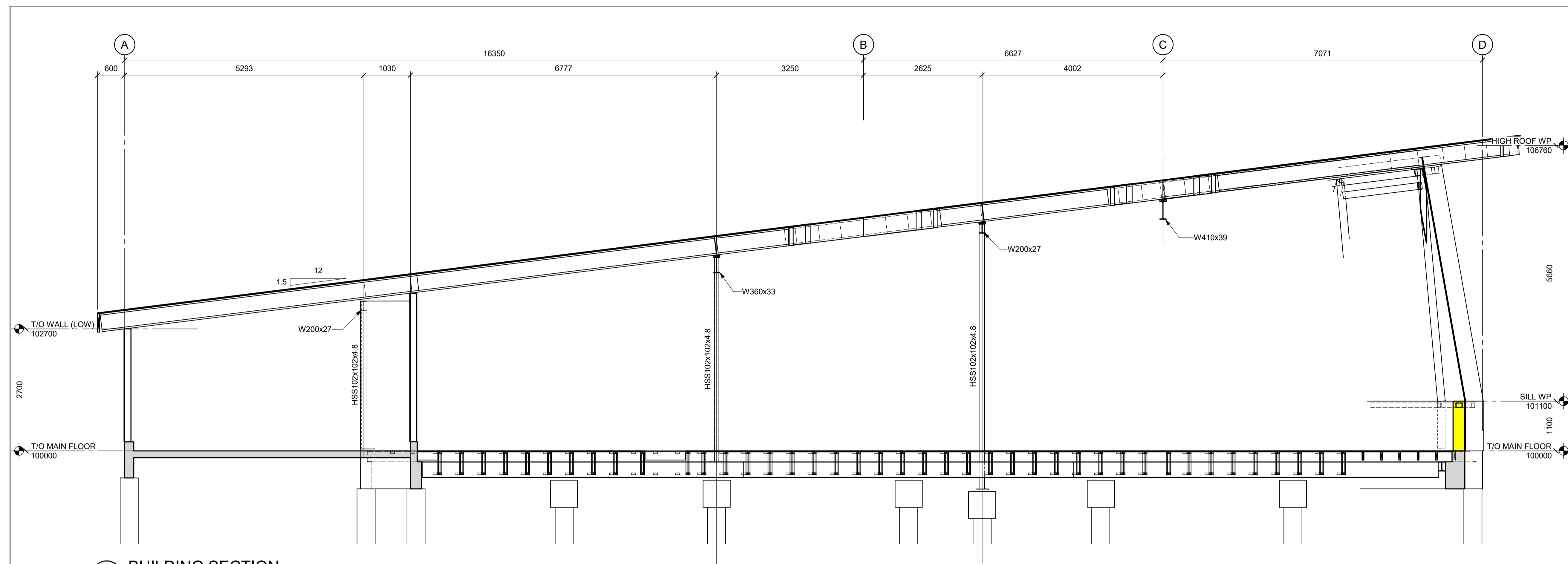
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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

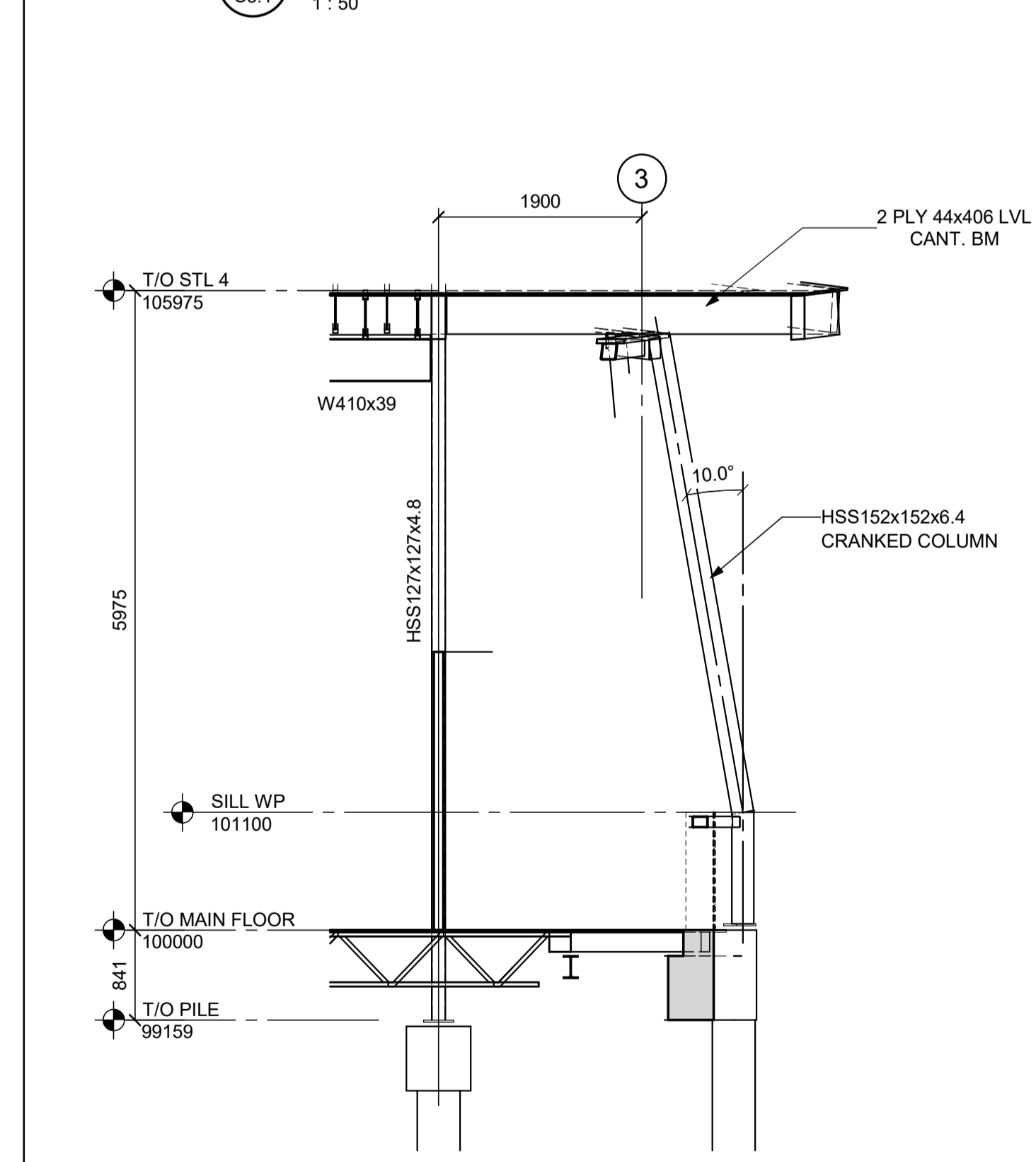
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BUILDING SECTIONS

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22-117	SGK	S3.1

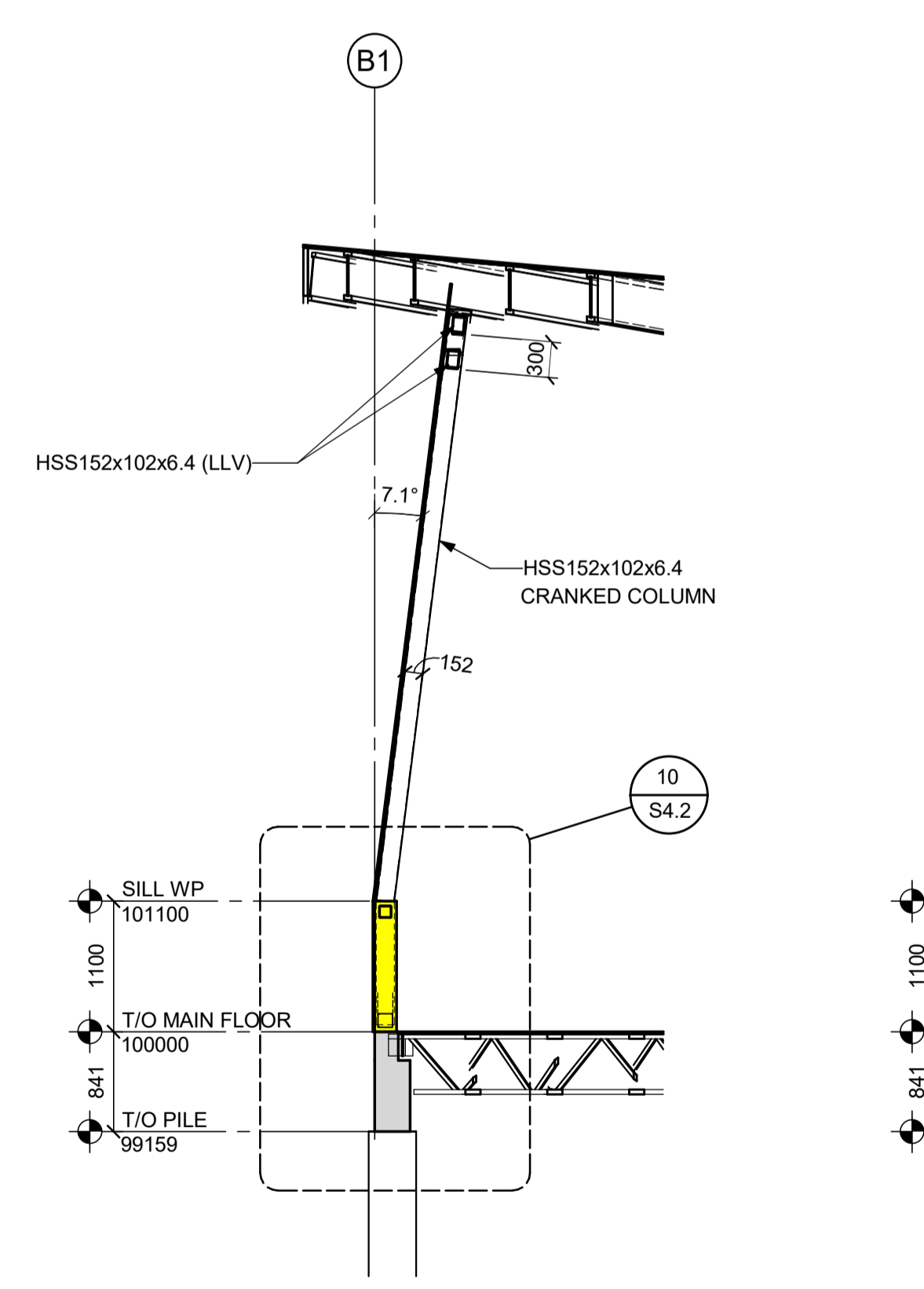
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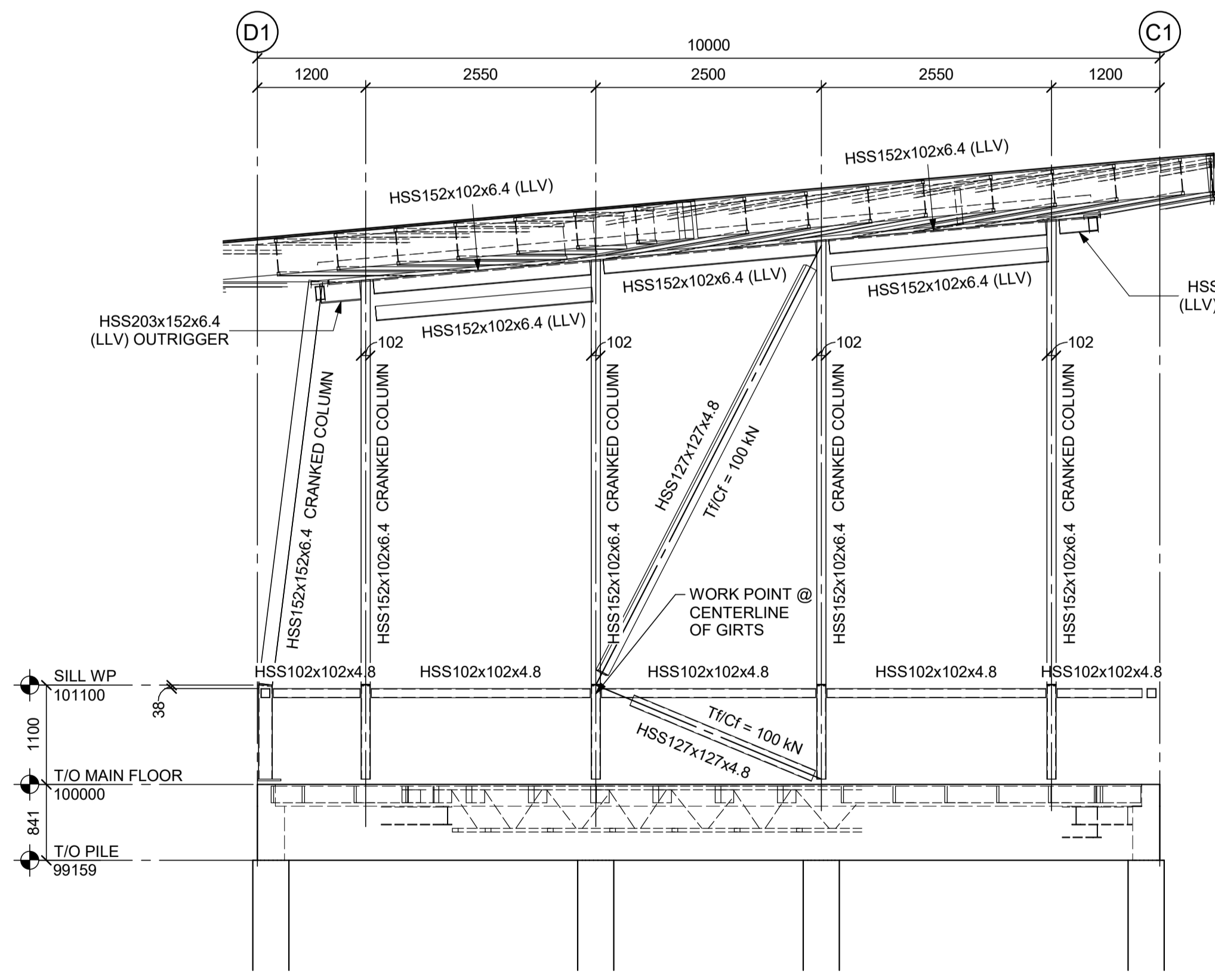
1 BUILDING SECTION
S3.1 1:50



2 SECTION @ CRANKED COLUMN
S3.1 1:50



3 WALL SECTION @ SLANTED WALL
S3.1 1:50



4 WALL ELEVATION
S3.1 1:50



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CLIENT INFORMATION:
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 BALCARRES, SASKATCHEWAN
 S0G 0C0

PROJECT TITLE:
 PROPOSED CONSTRUCTION
 AHSOR HEADSTART FACILITY
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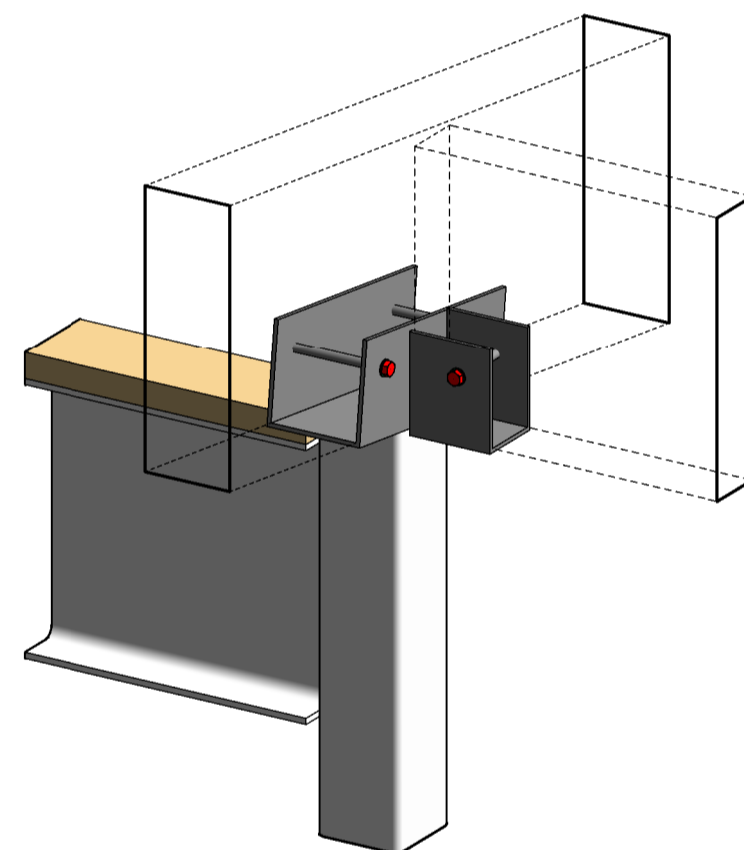
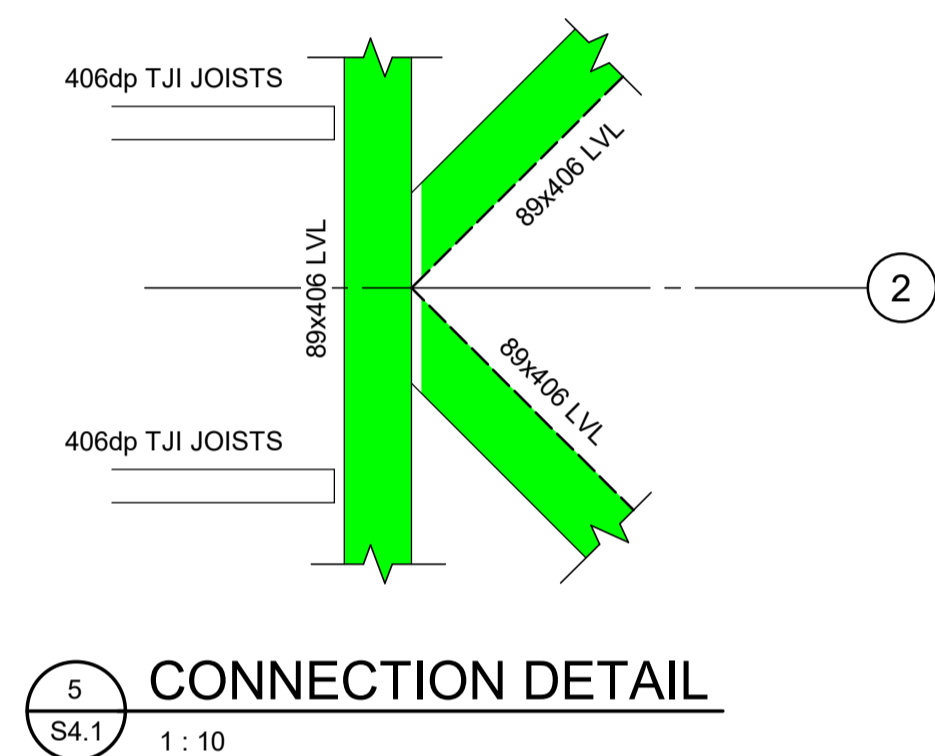
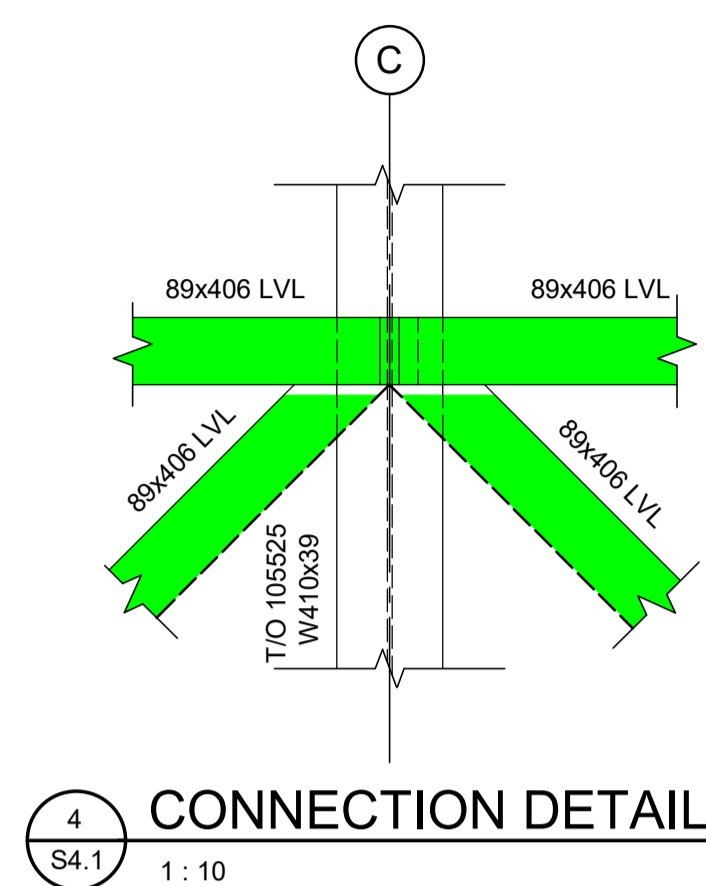
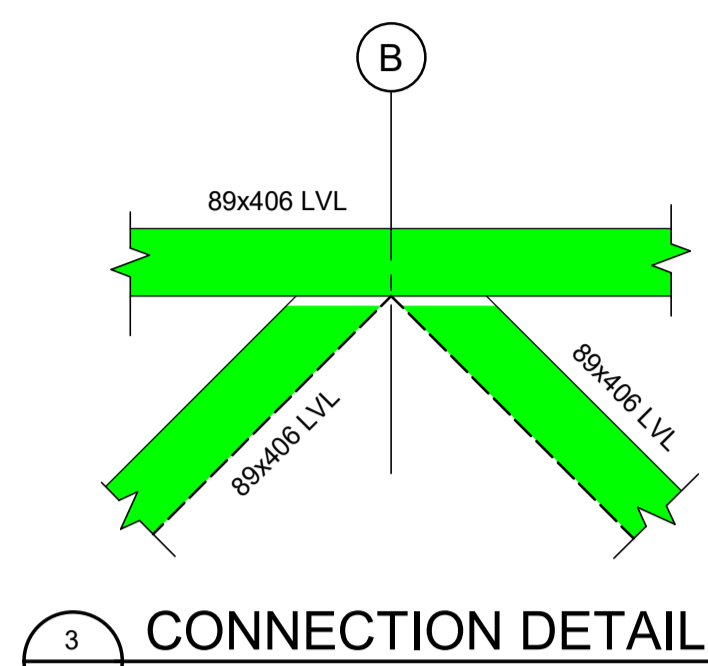
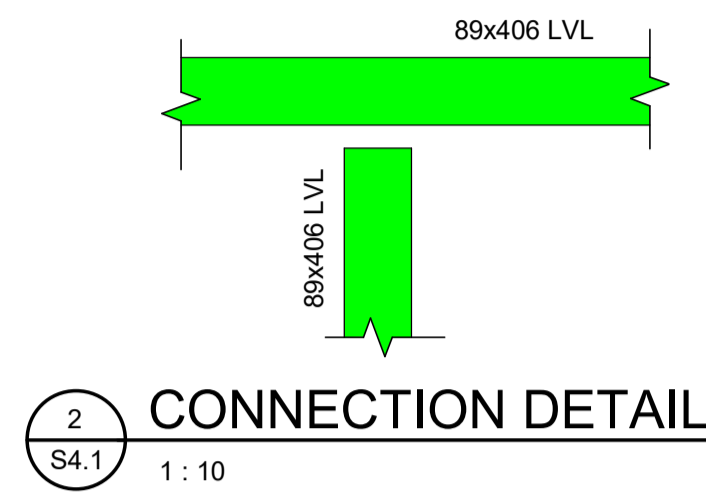
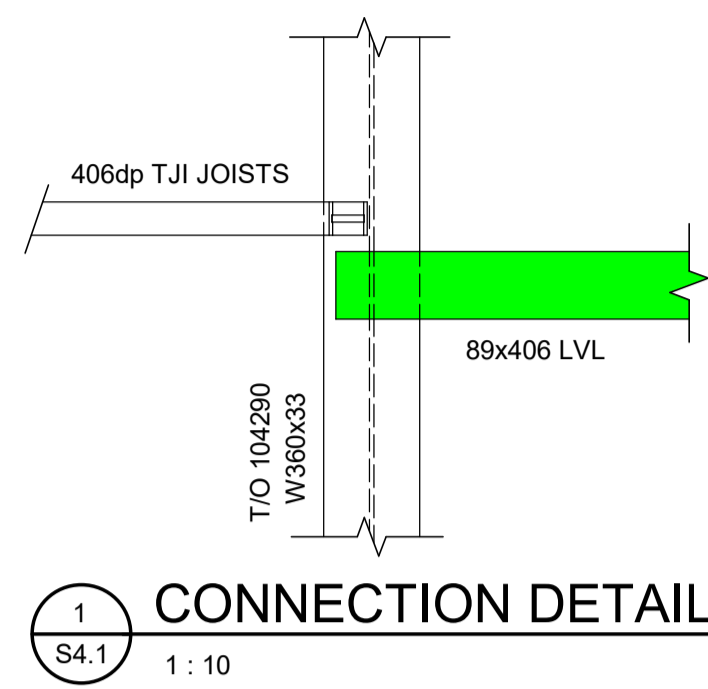
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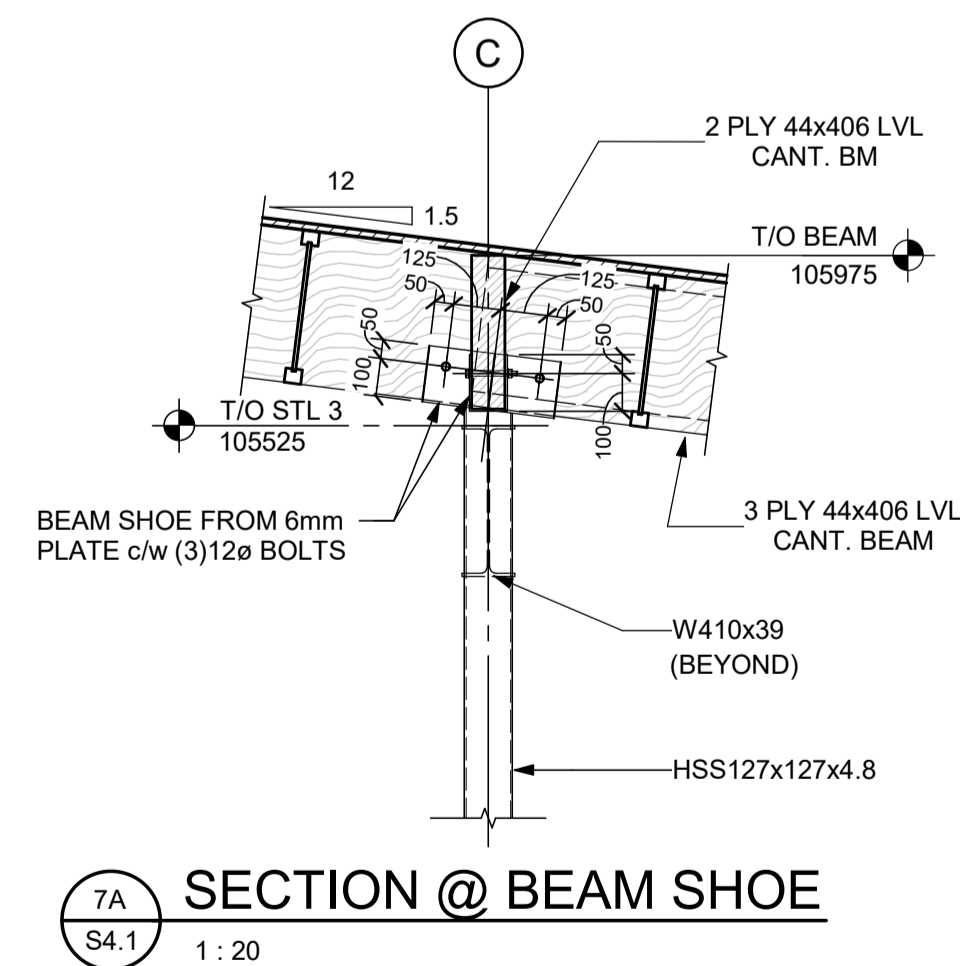
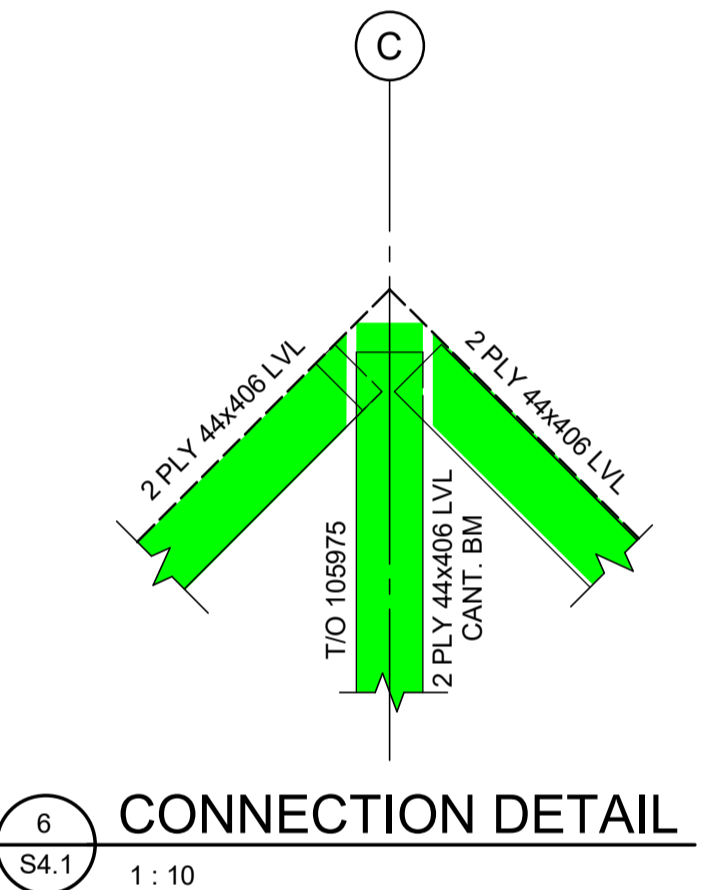
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FILE No.	DRAWING No.
22-117	S4.1

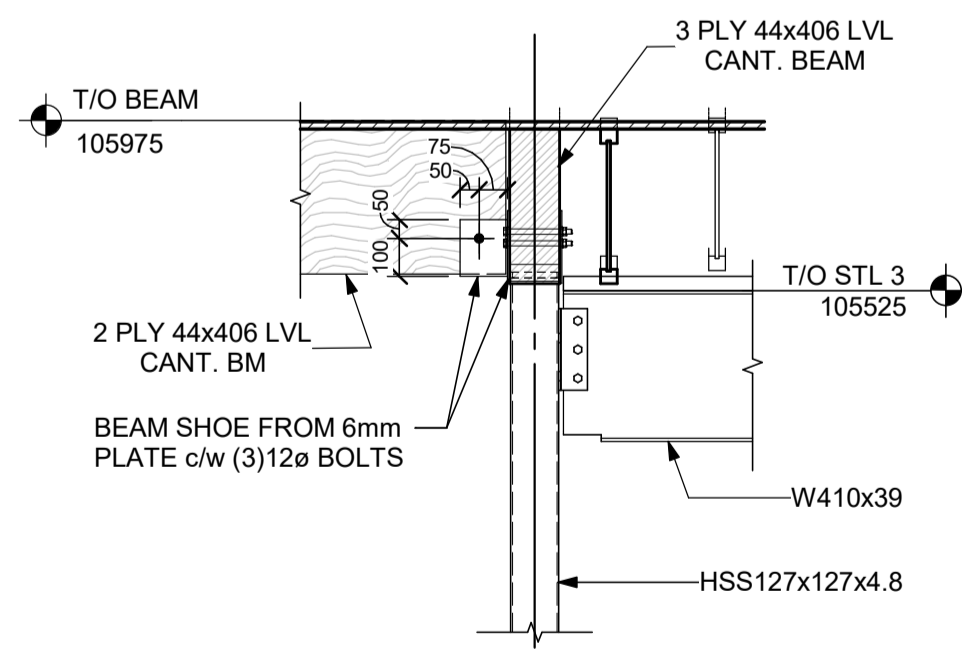
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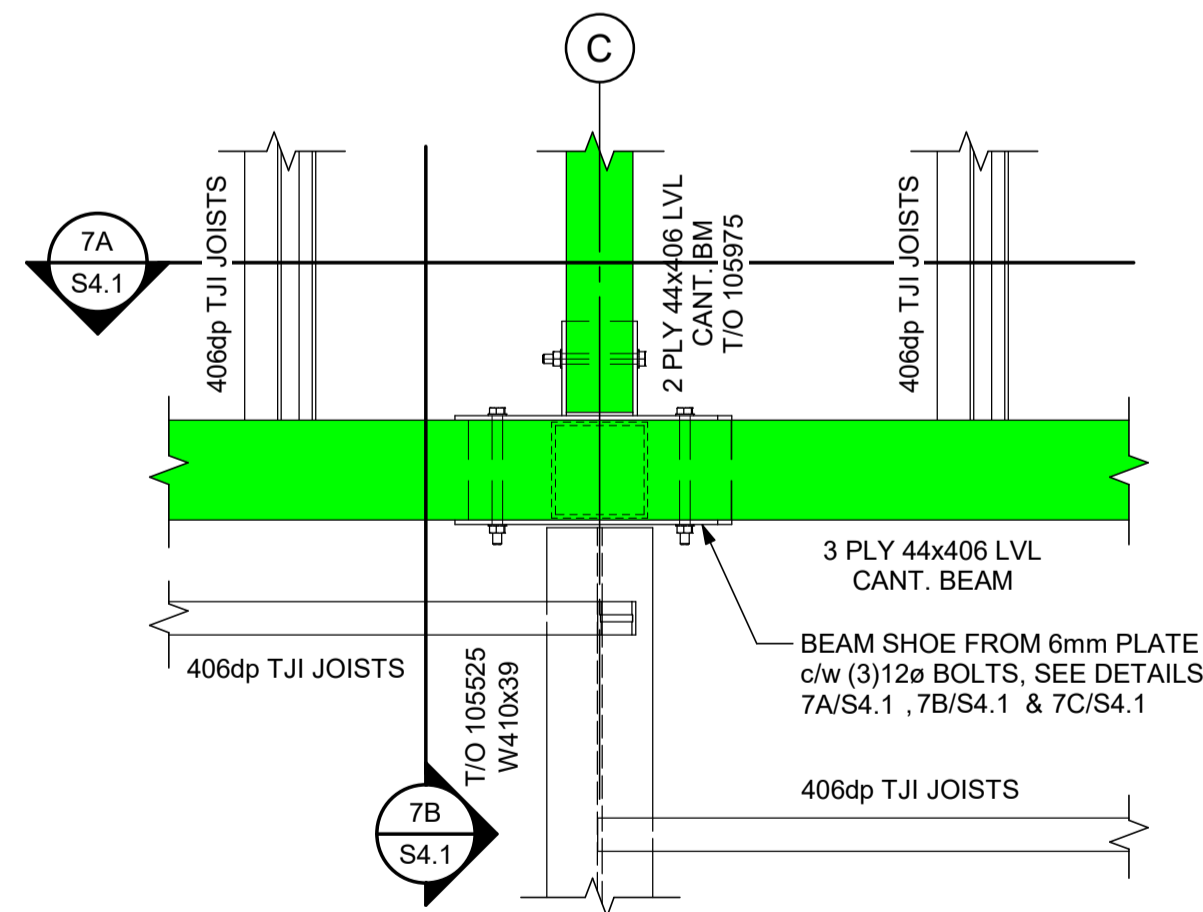
3D VIEW @ BEAM SHOE
S4.1



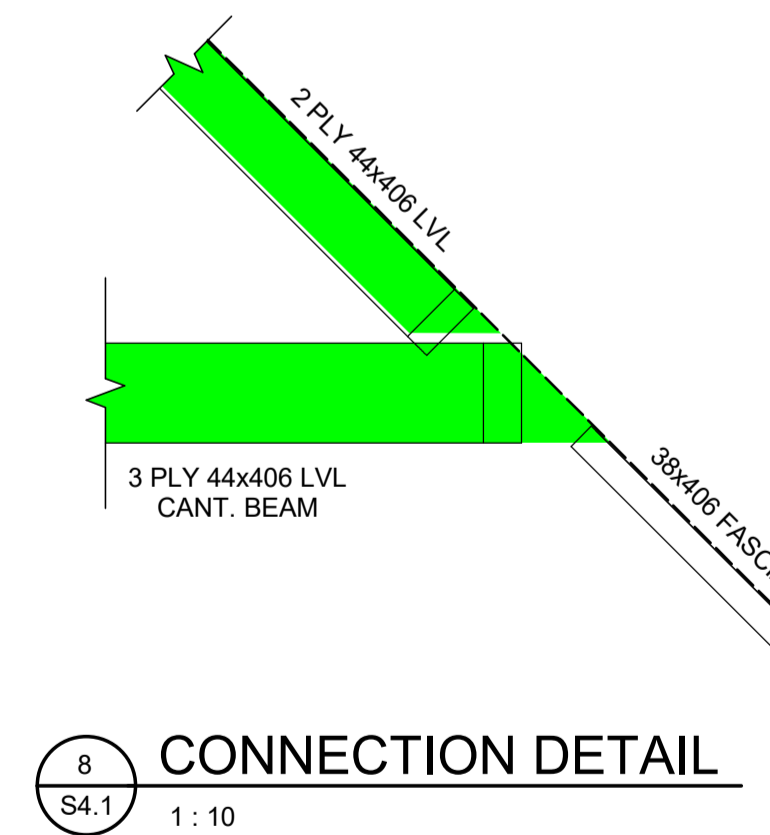
SECTION @ BEAM SHOE
S4.1 1:20



SECTION @ BEAM SHOE
S4.1 1:20



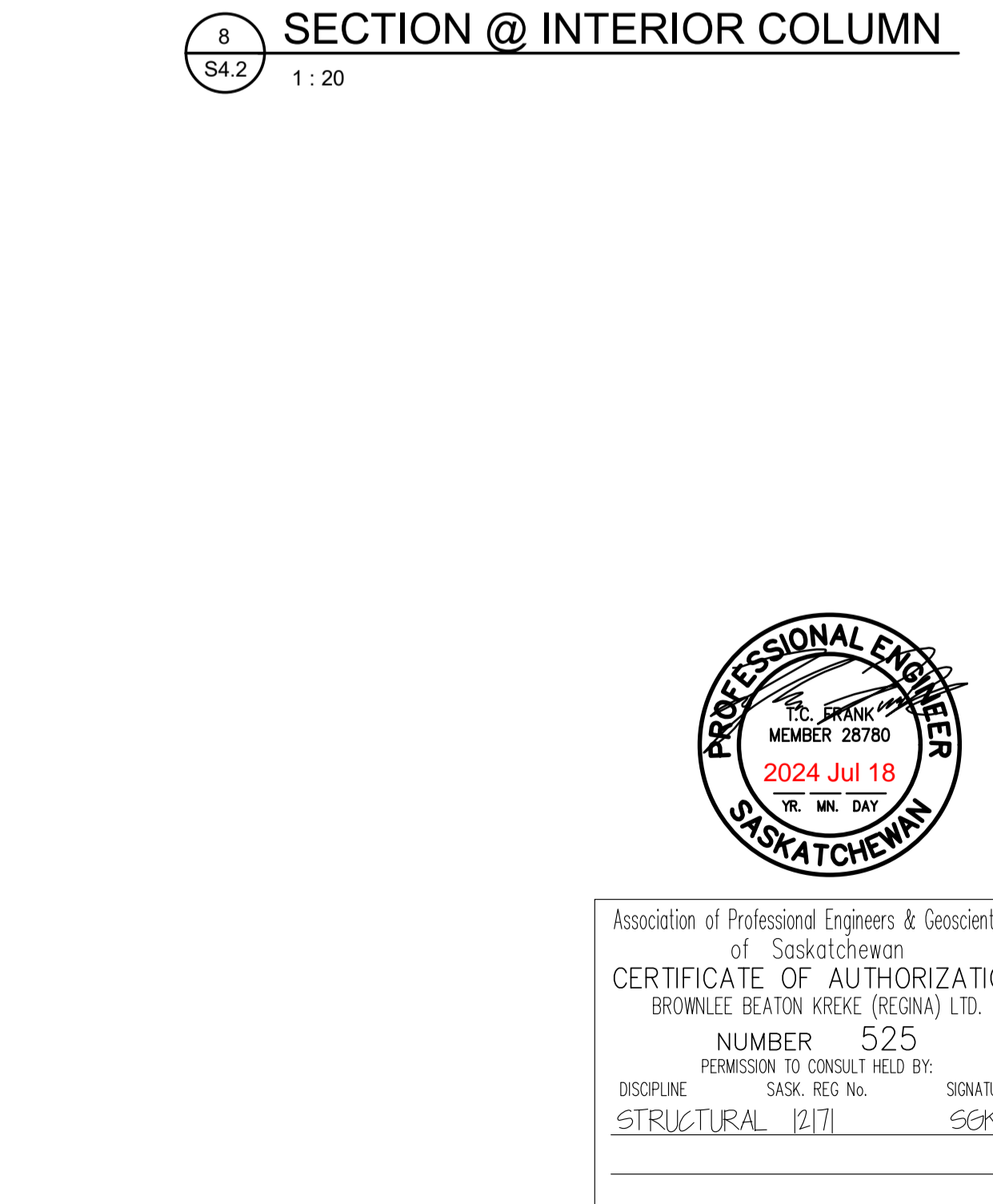
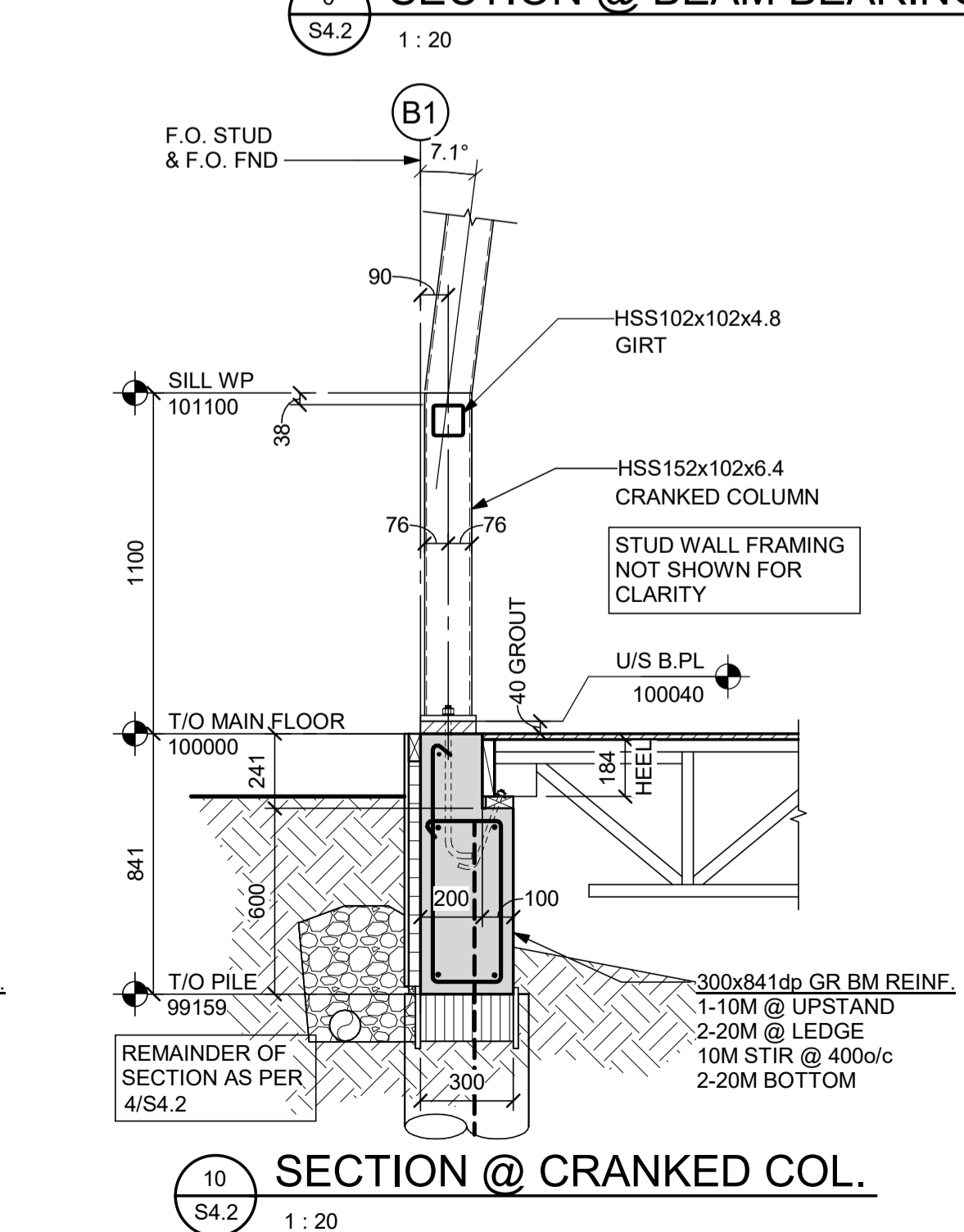
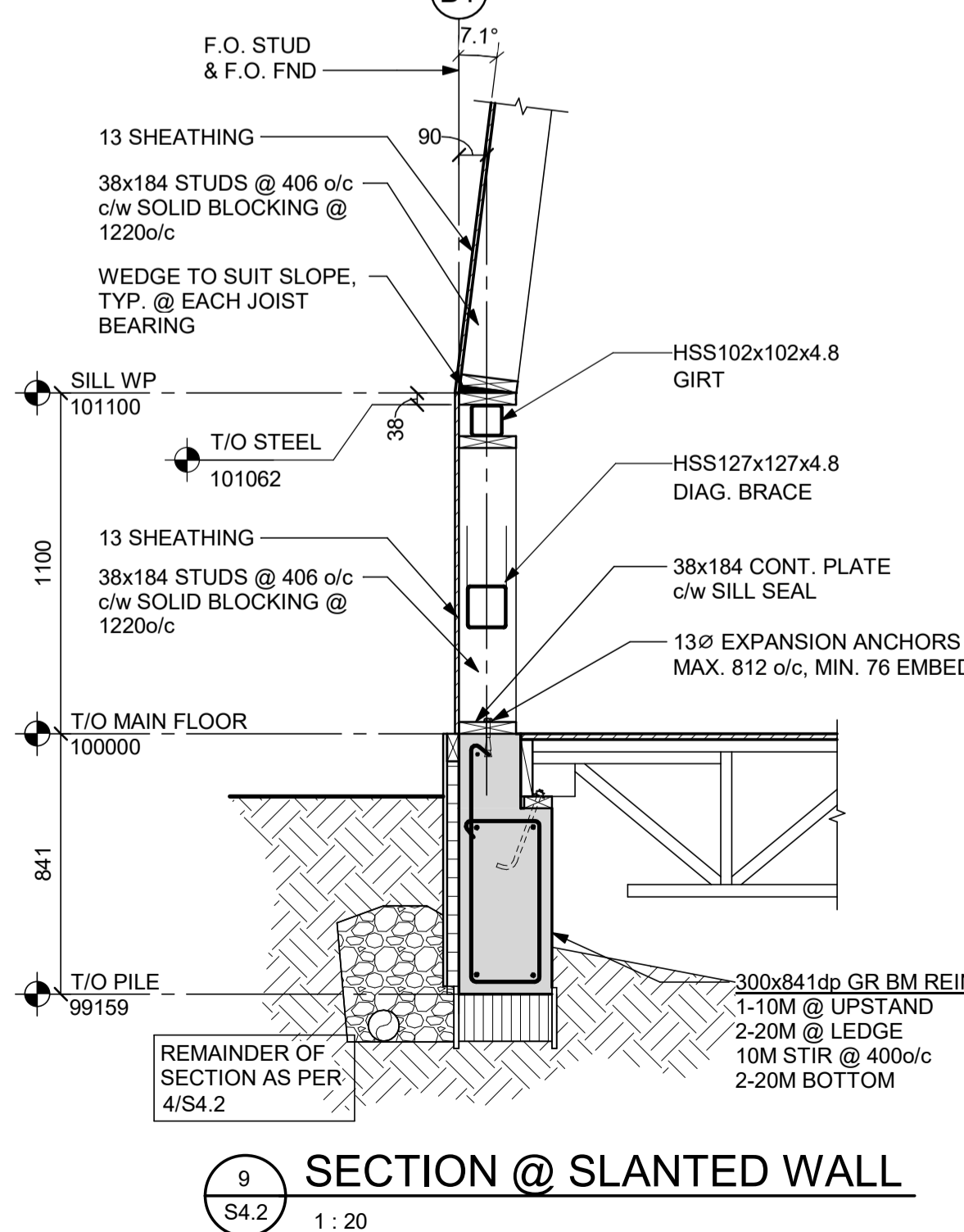
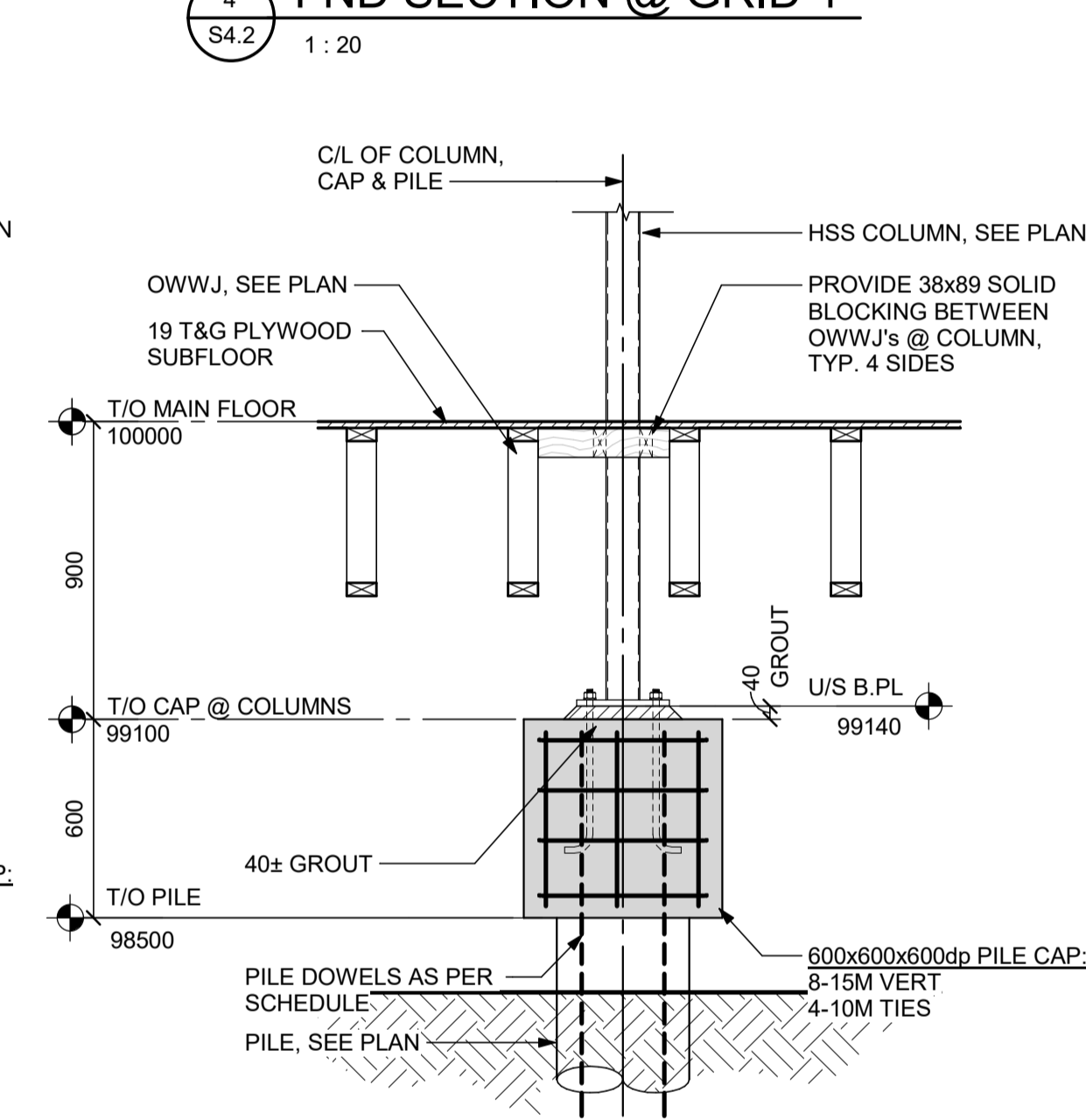
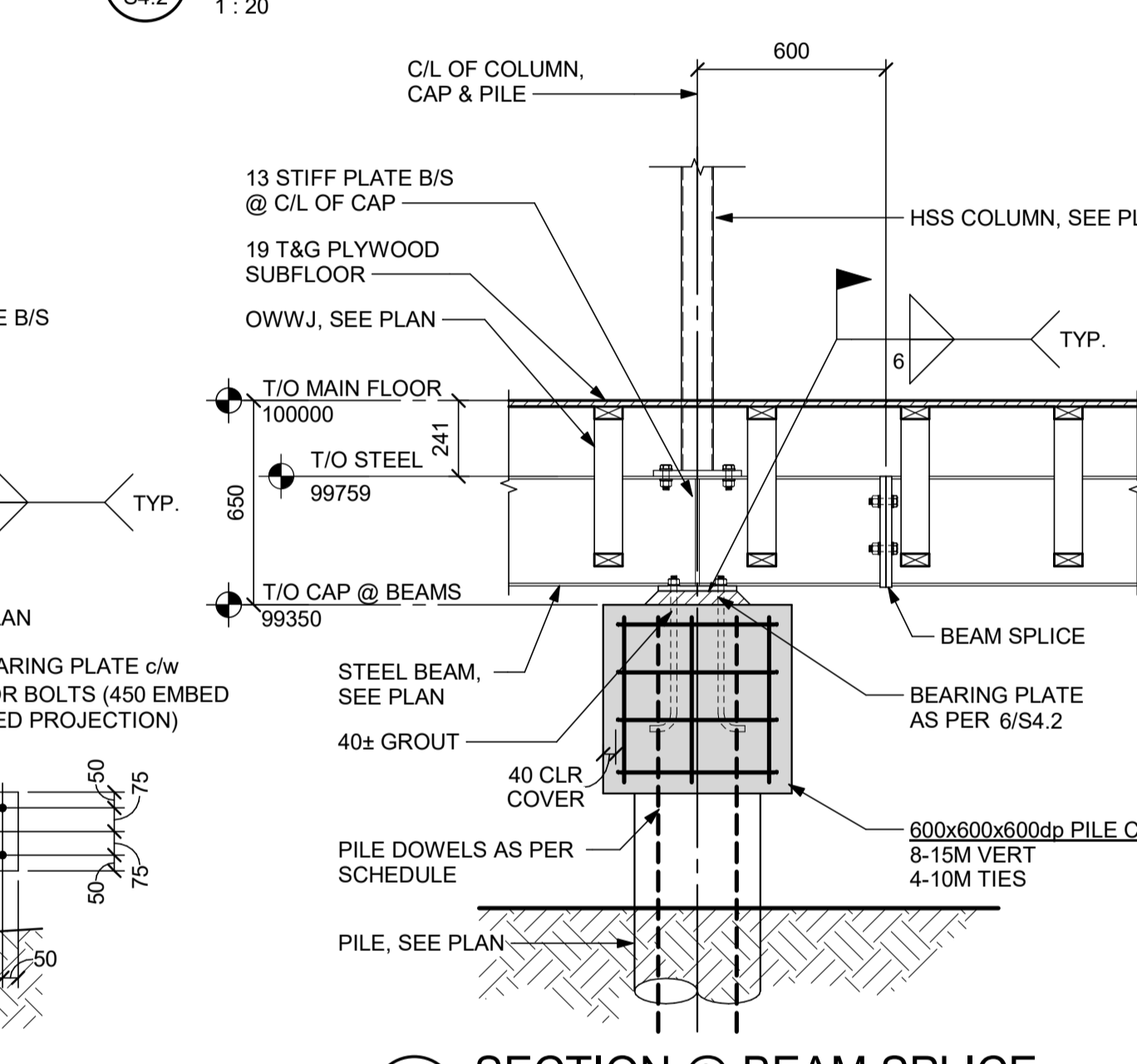
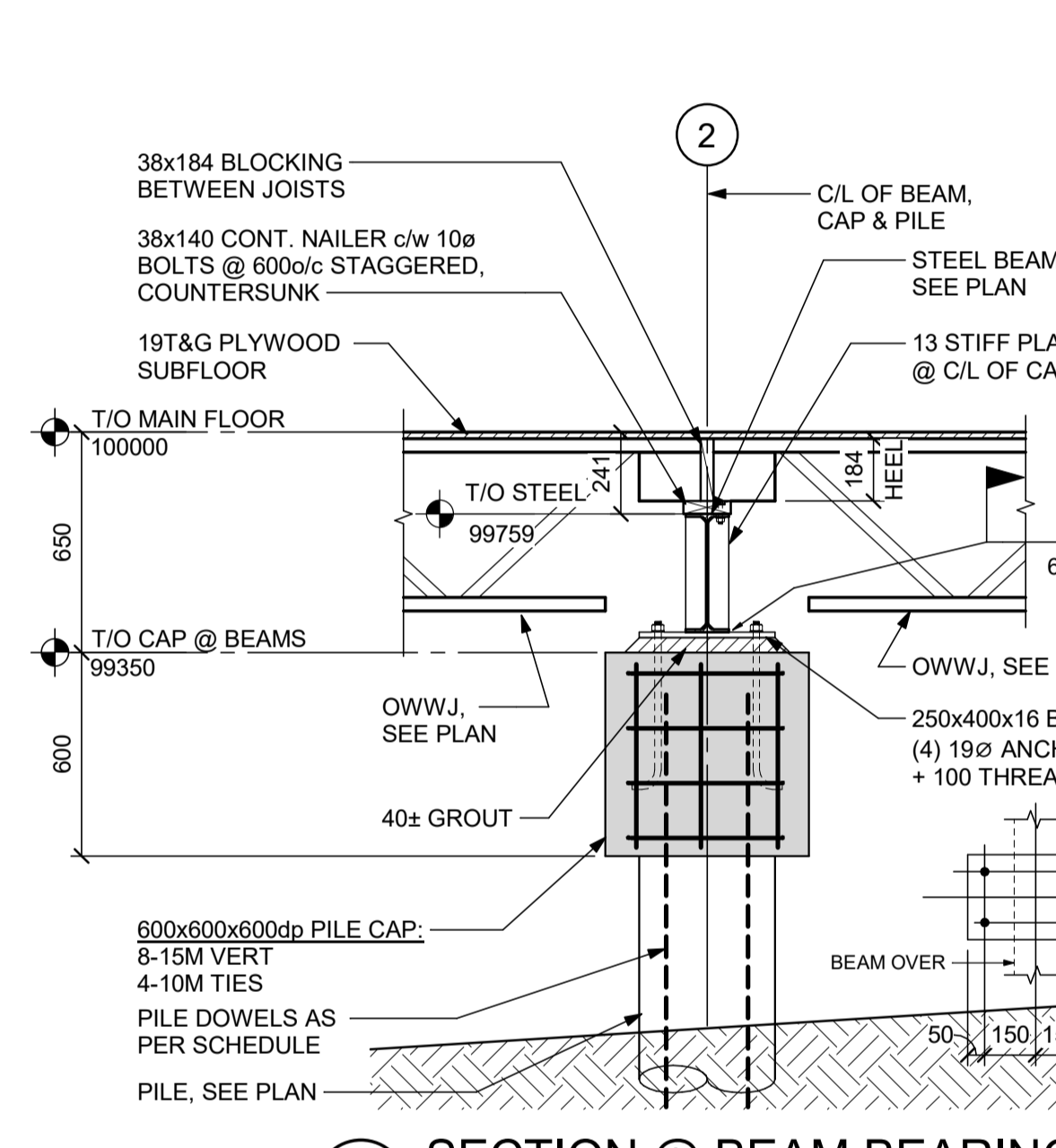
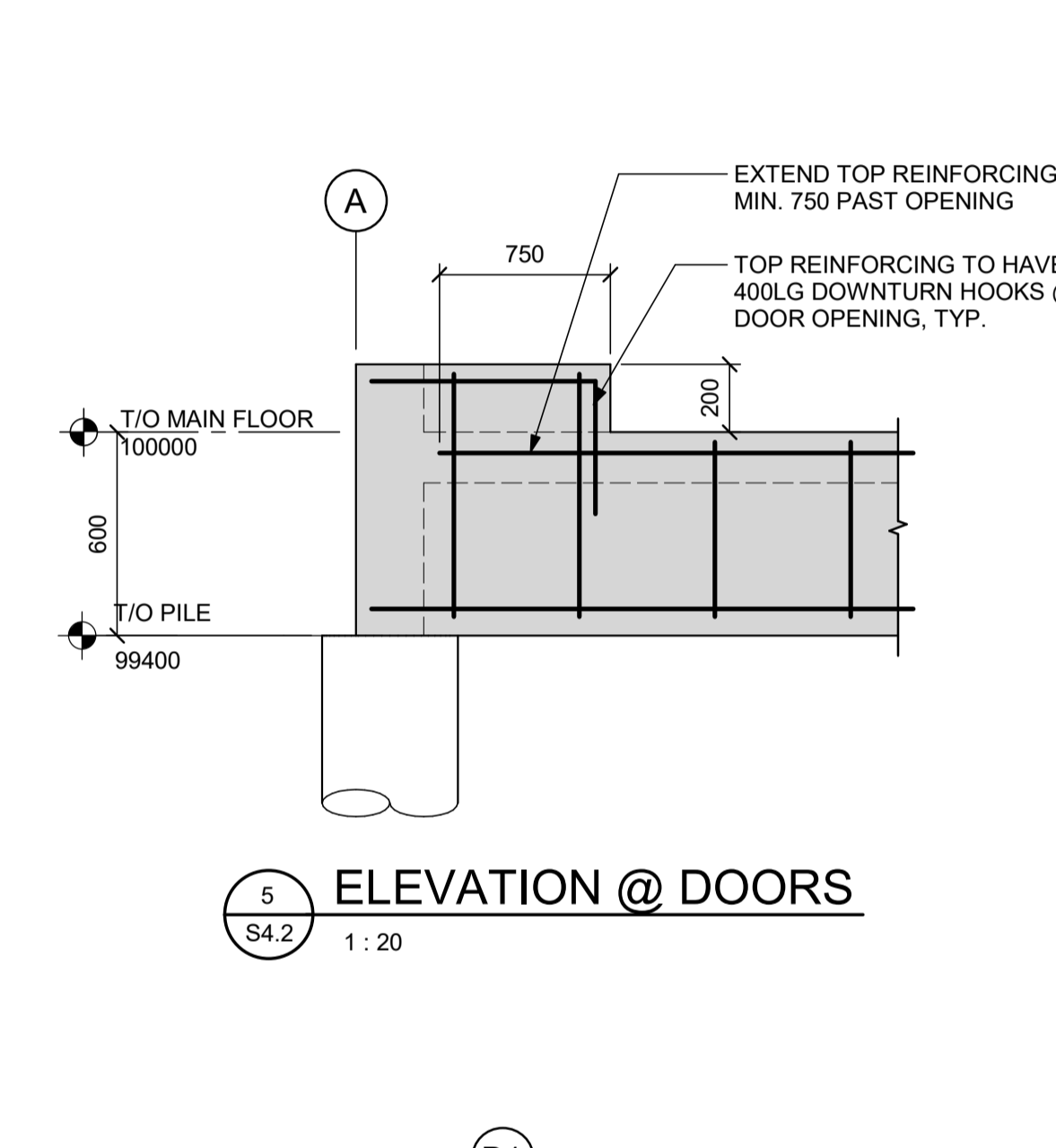
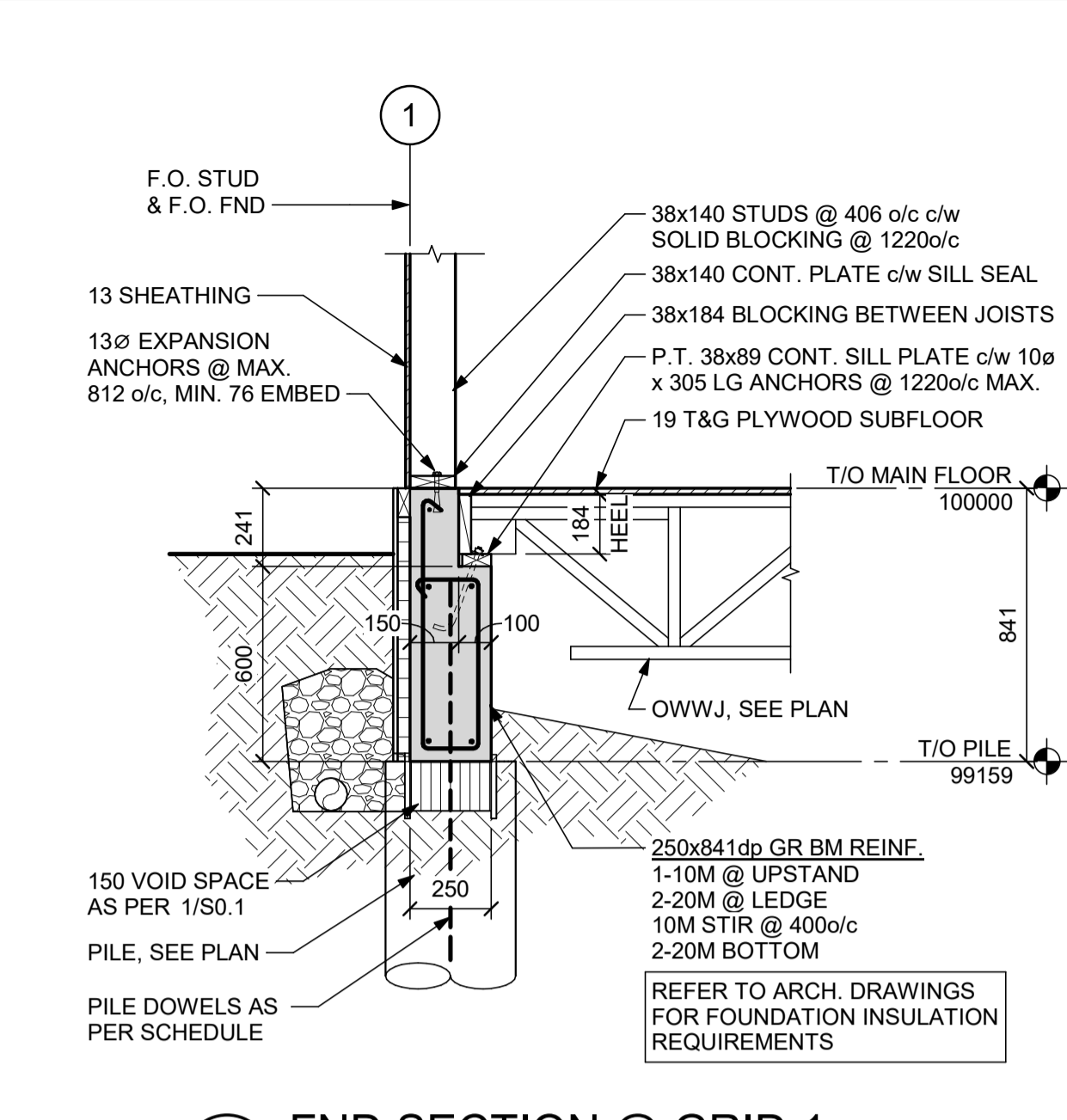
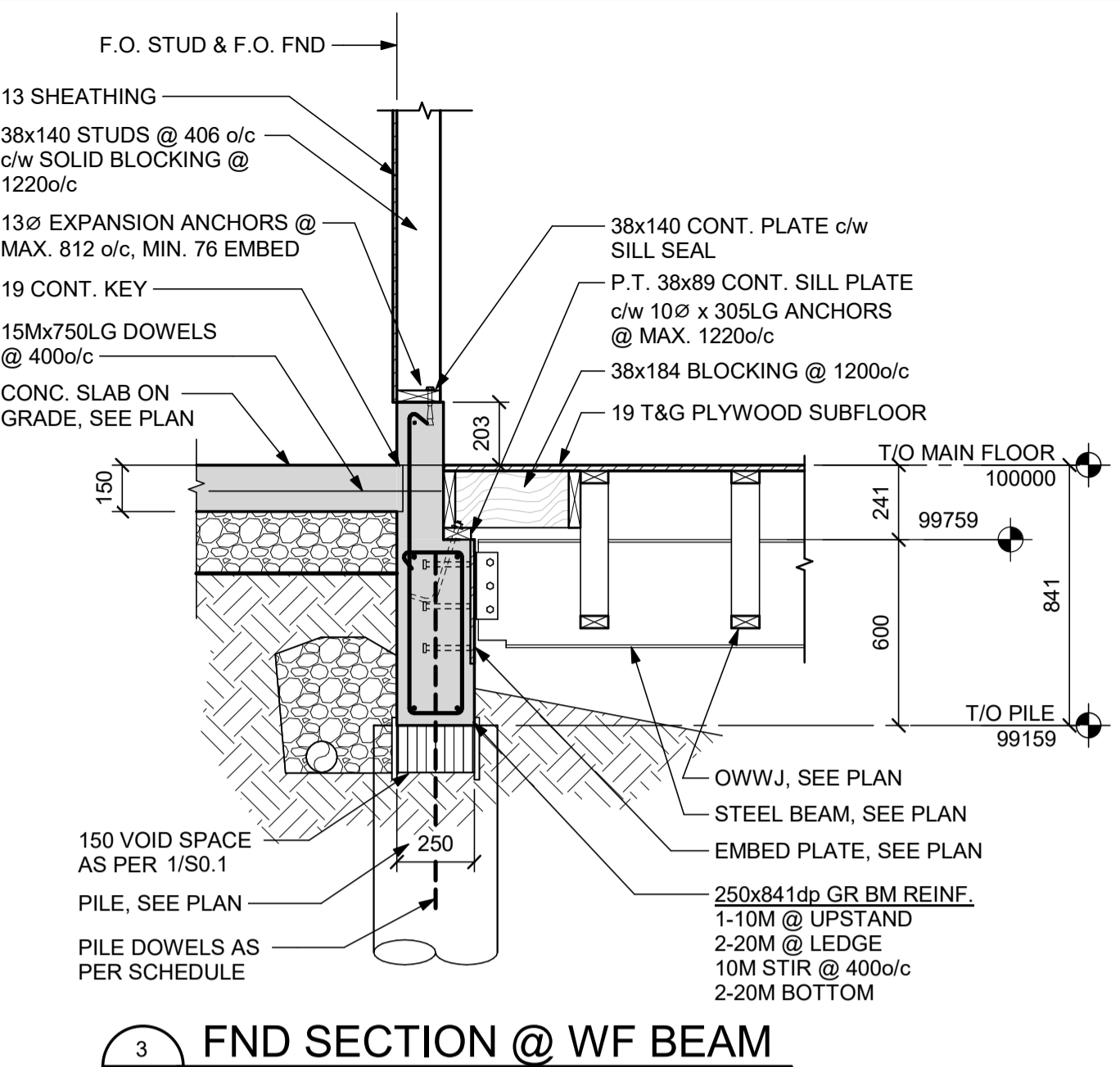
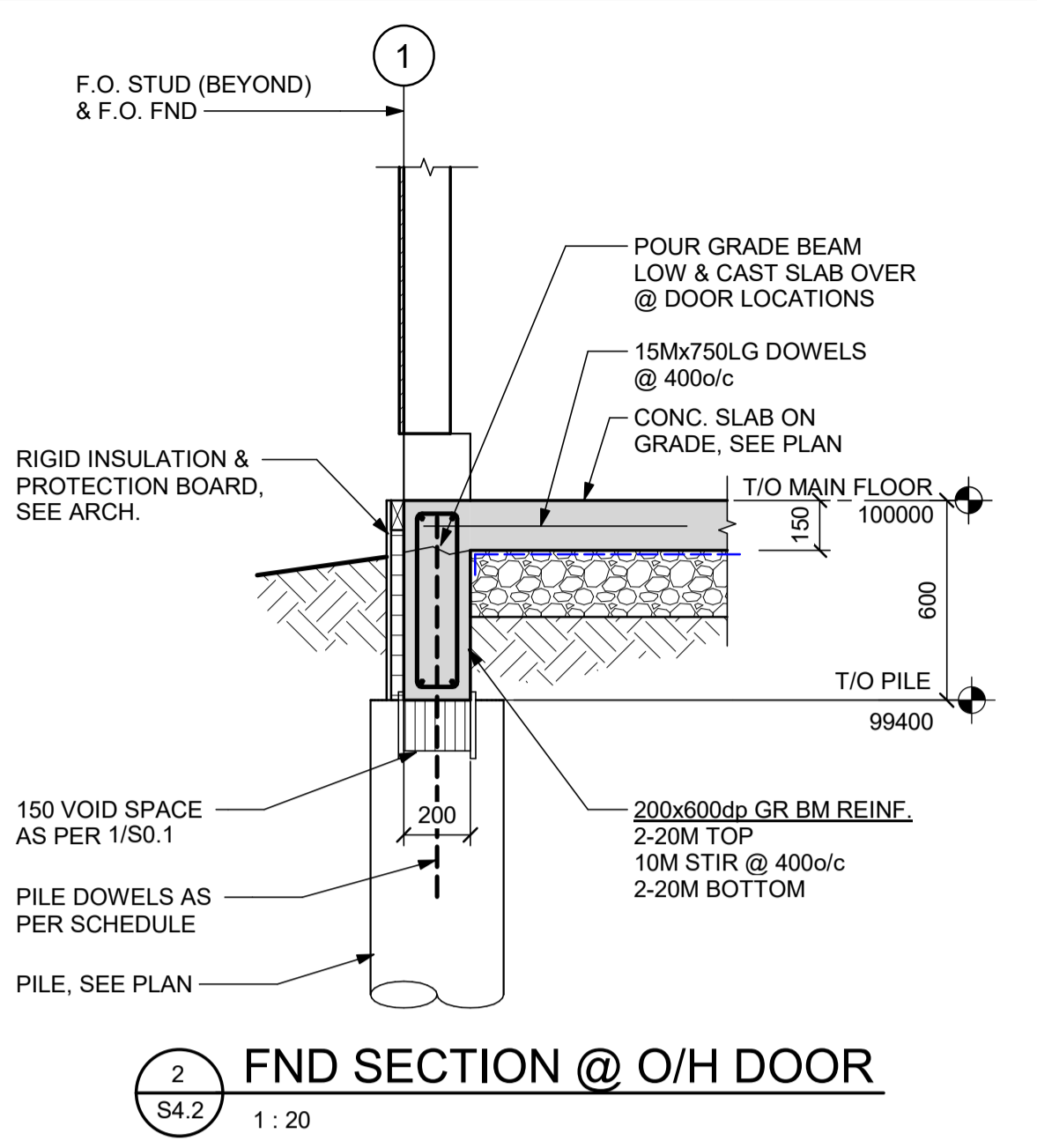
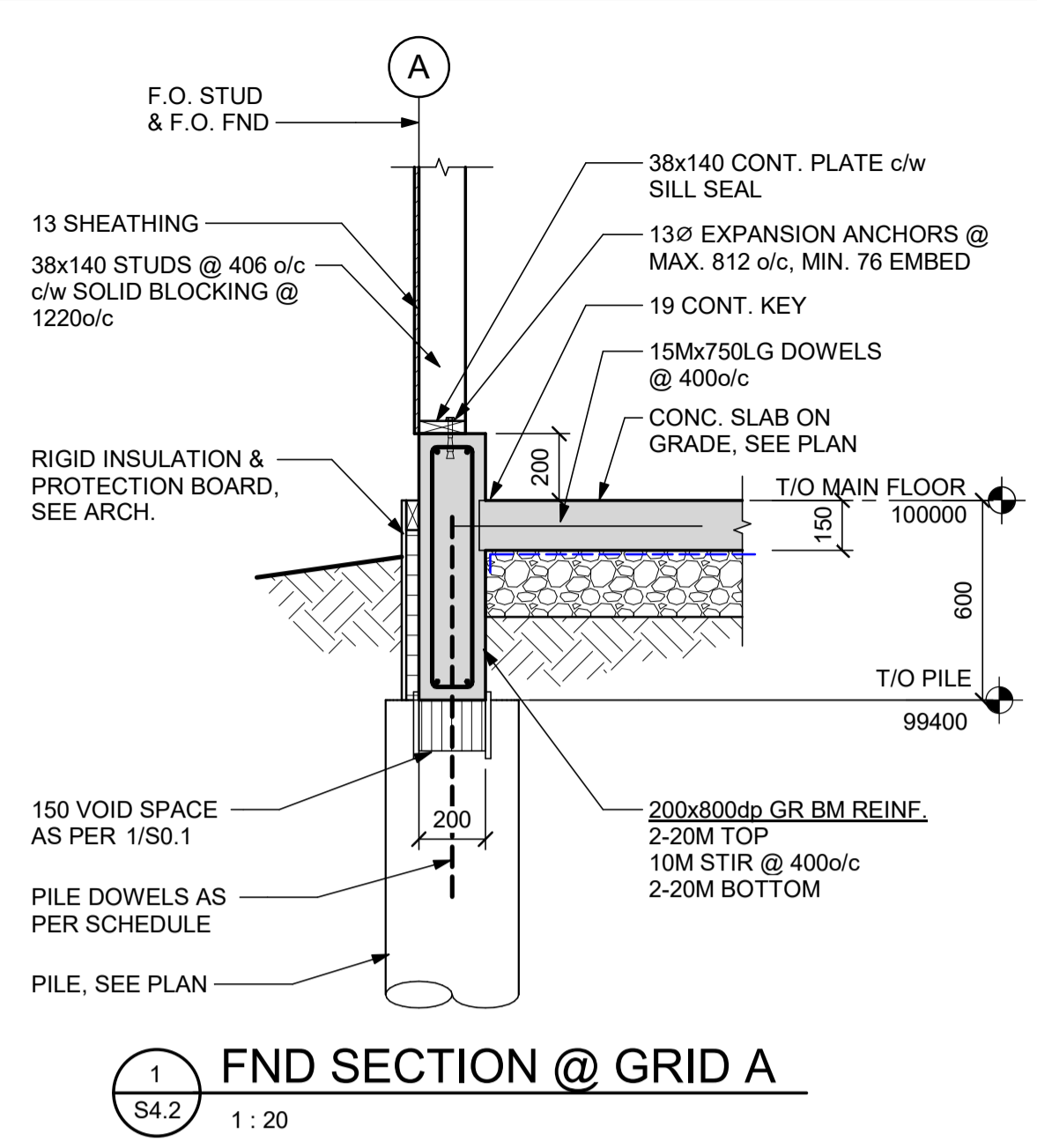
CONNECTION DETAIL
S4.1 1:10



CONNECTION DETAIL
S4.1 1:10



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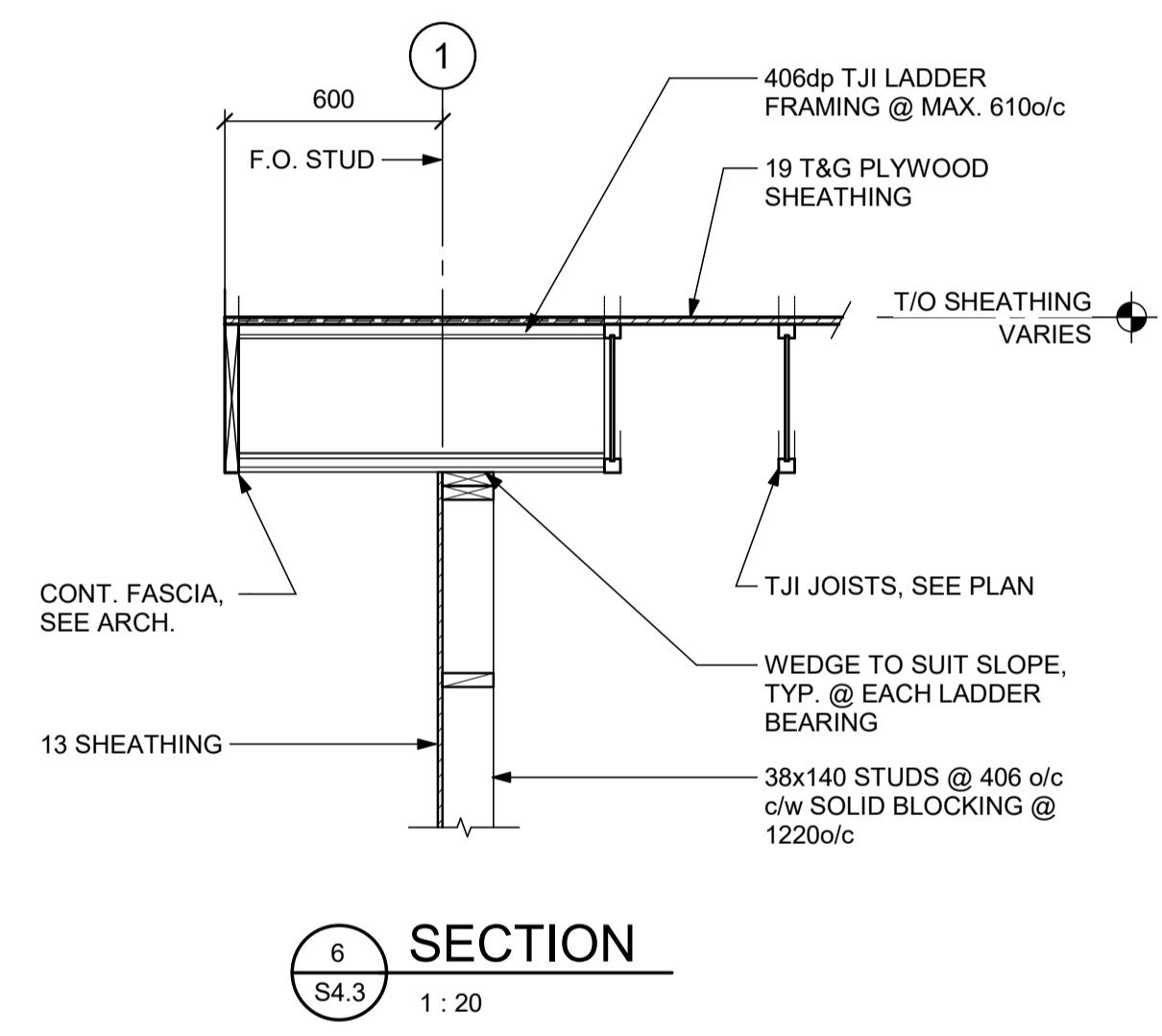
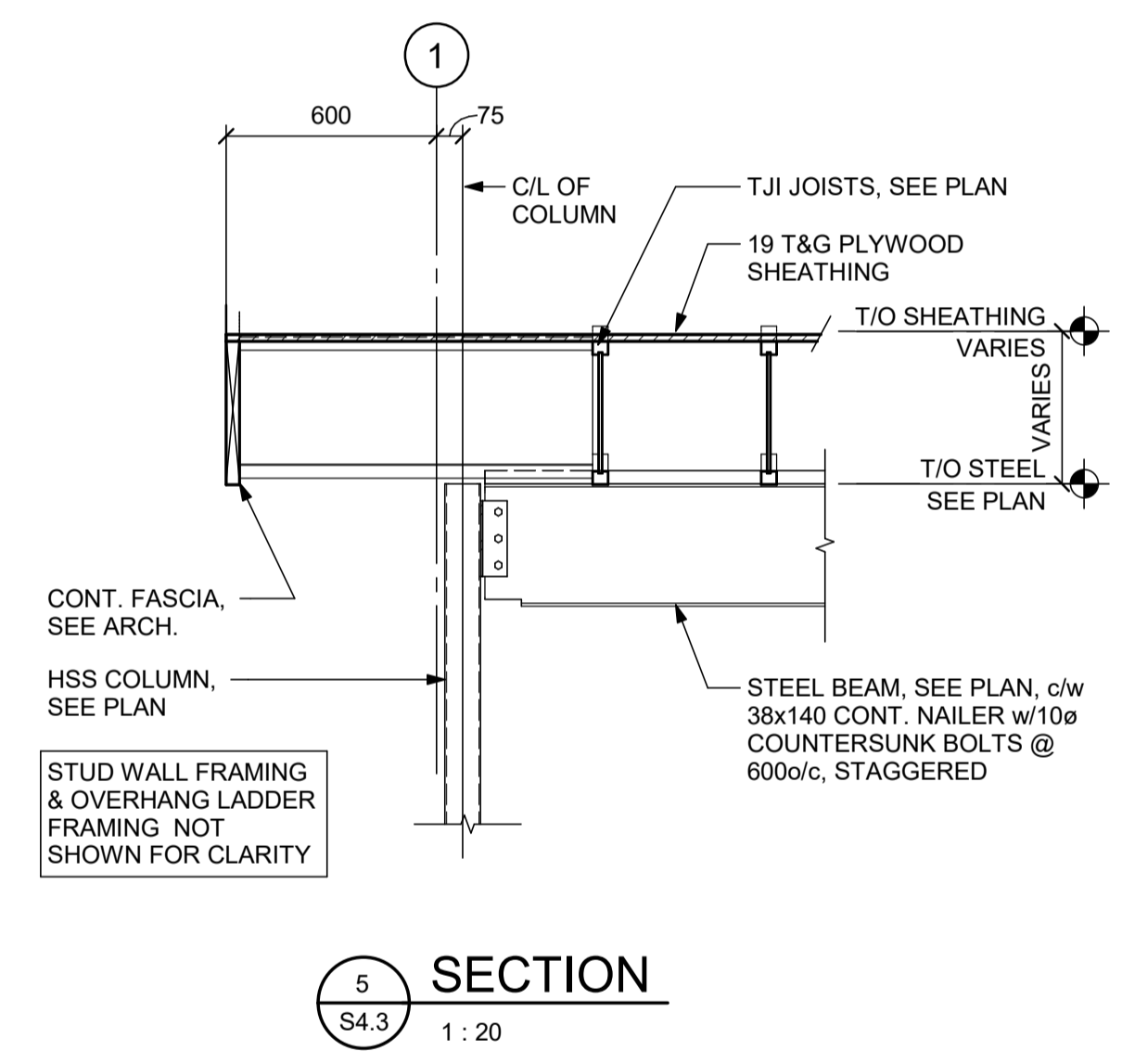
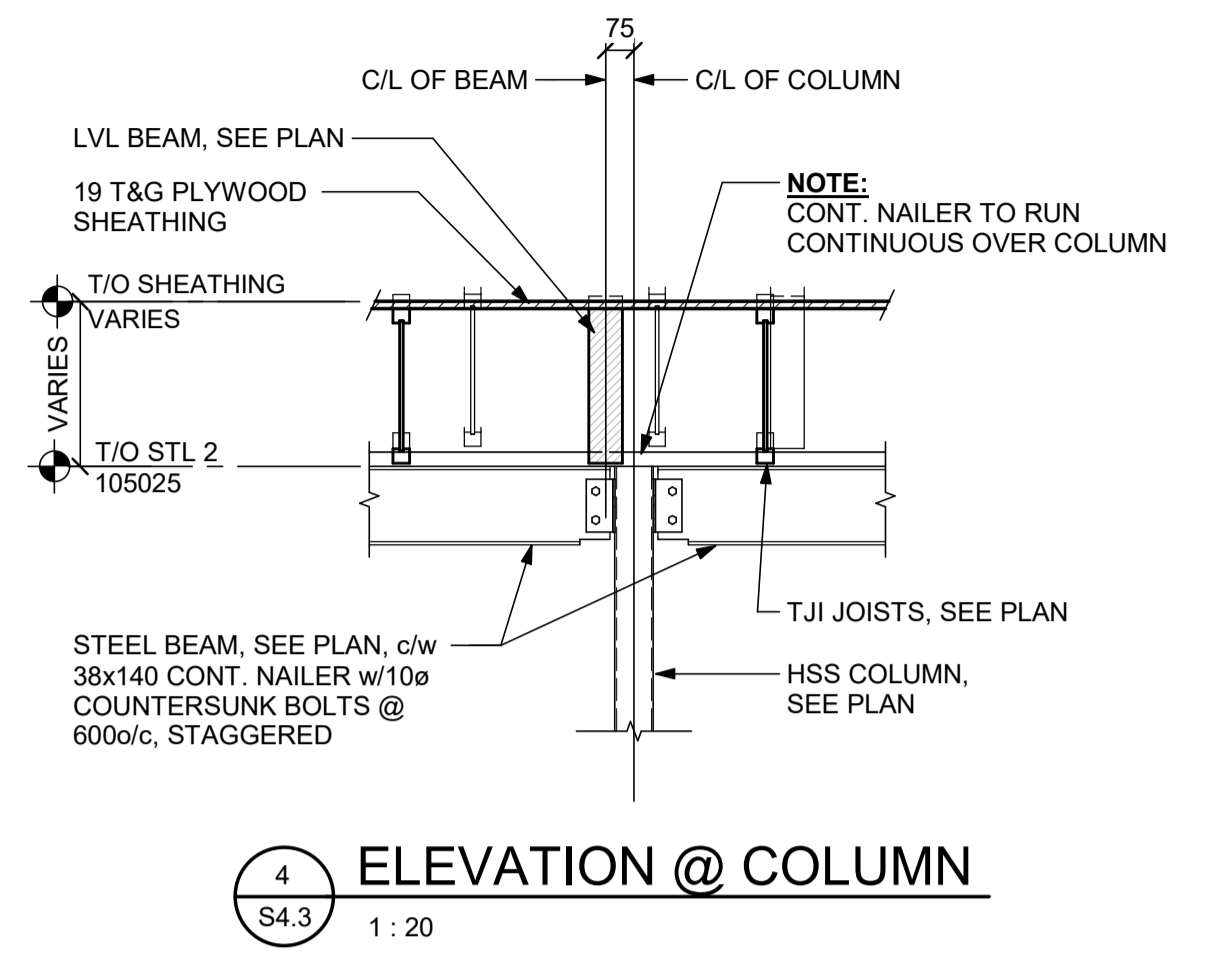
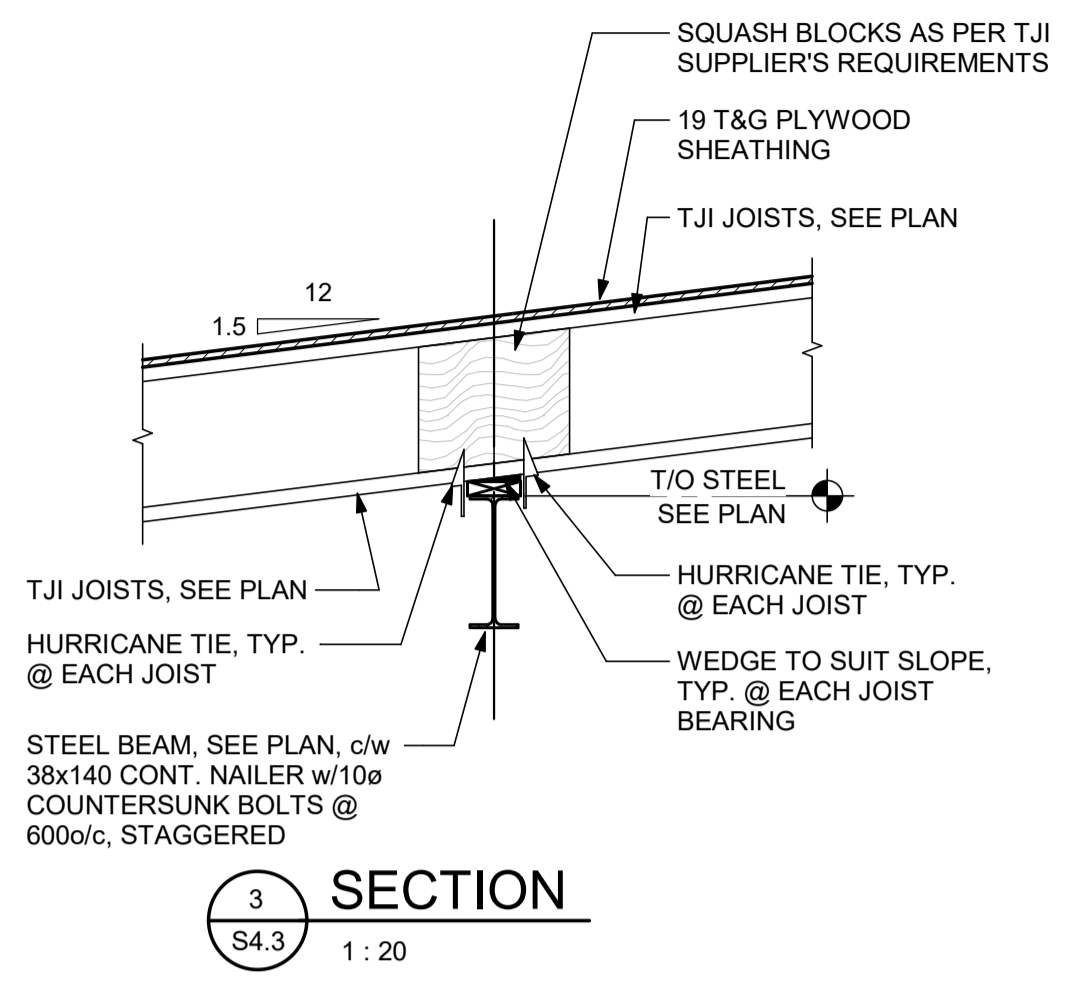
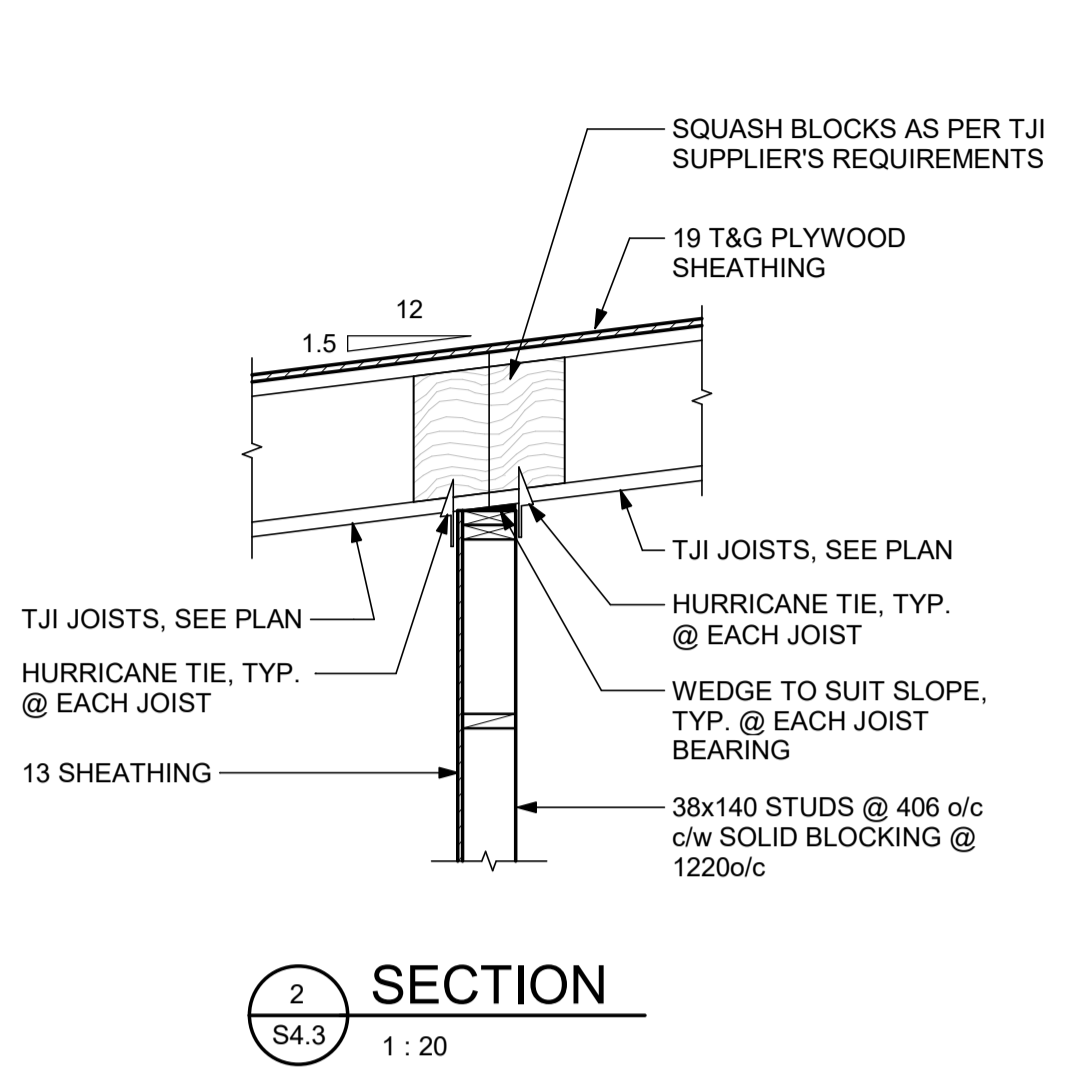
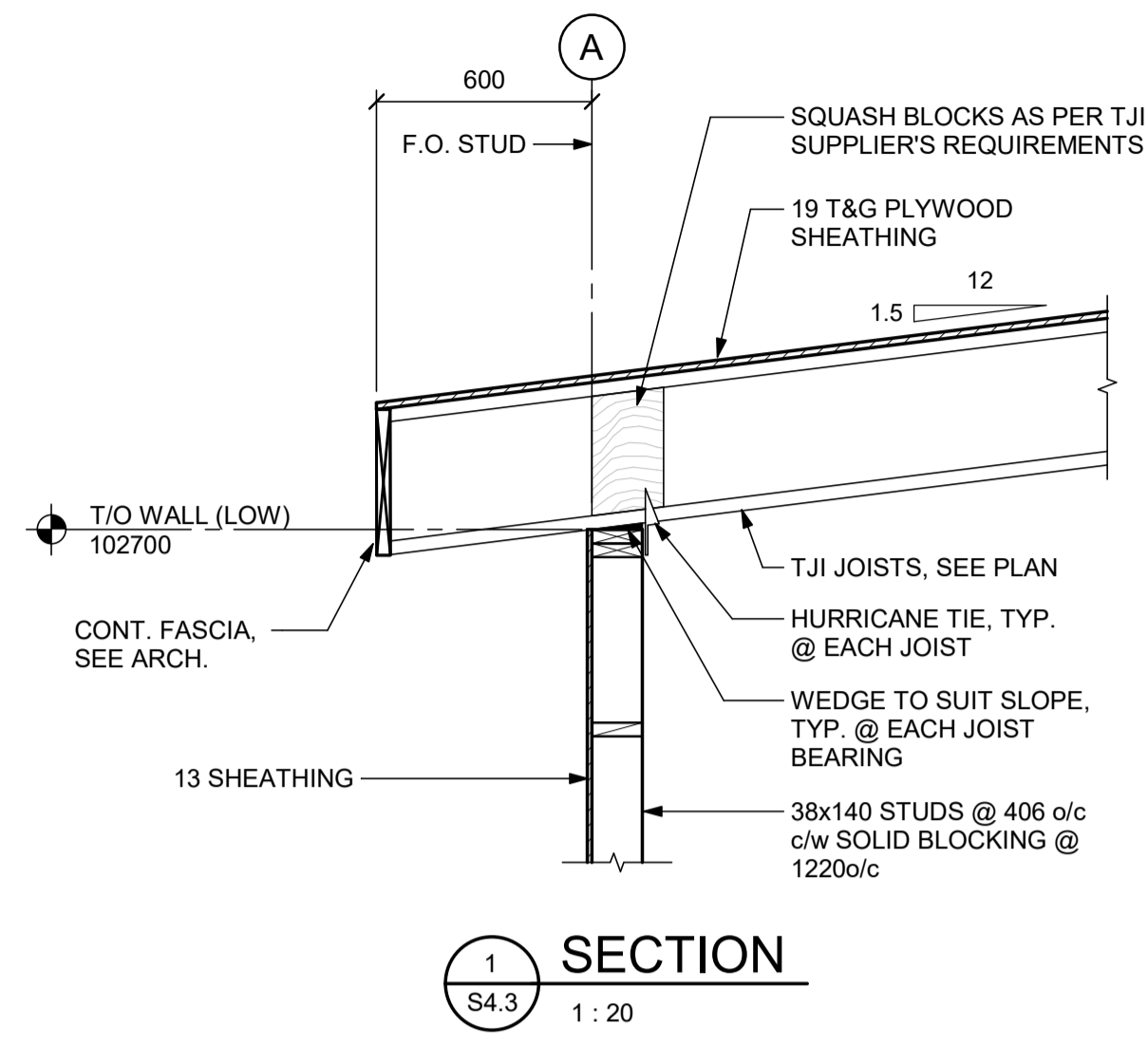
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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

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FOUNDATION SECTIONS

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FILE No:	NUMBER: 525	DRAWING No:
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22-117 S4.2



MECHANICAL

ELECTRICAL

1	ISSUED FOR BID	18 JUL 24
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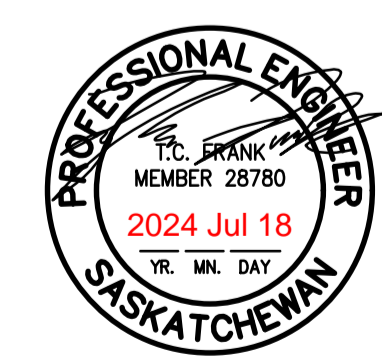
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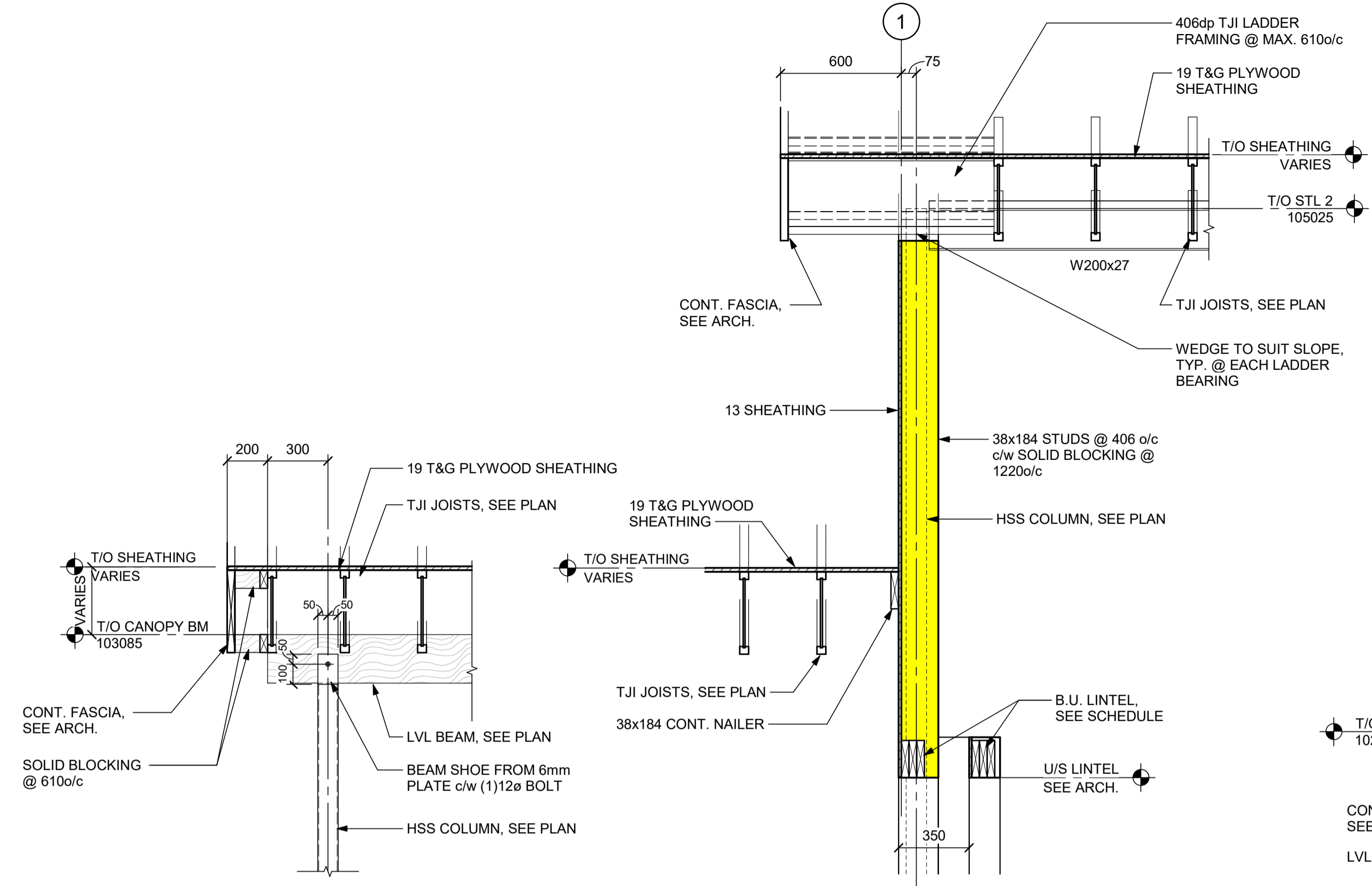
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FILE No.	DRAWING No.
22-117	S4.3

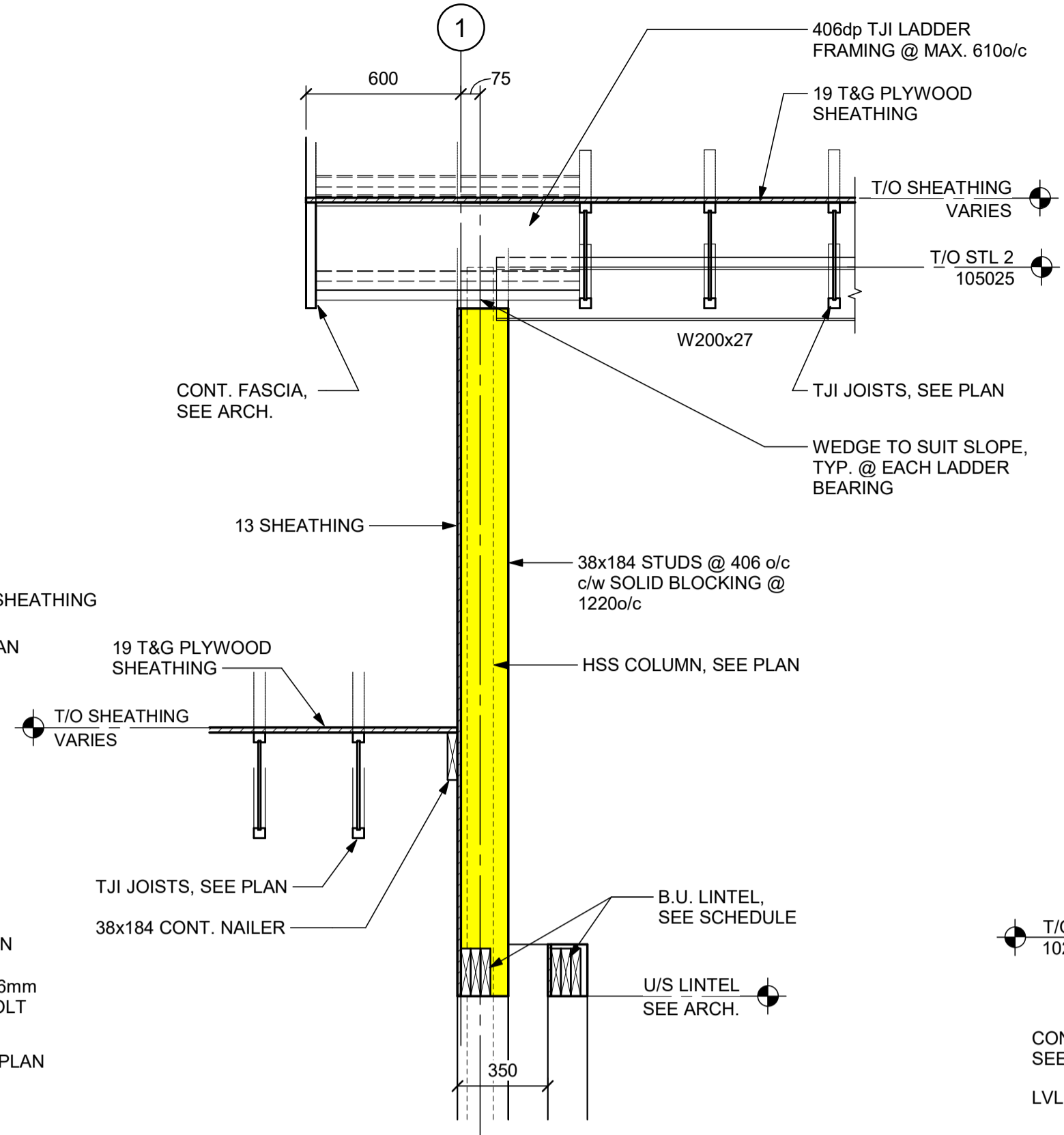
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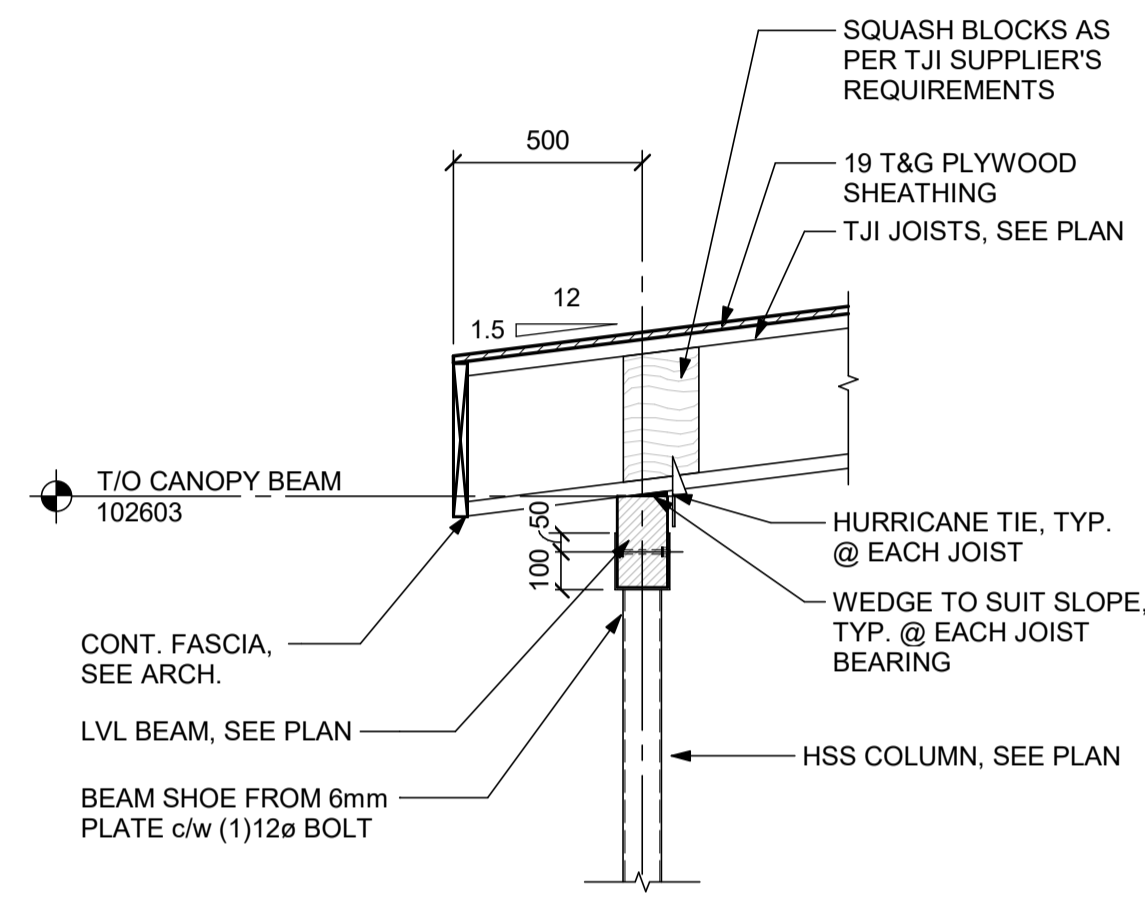
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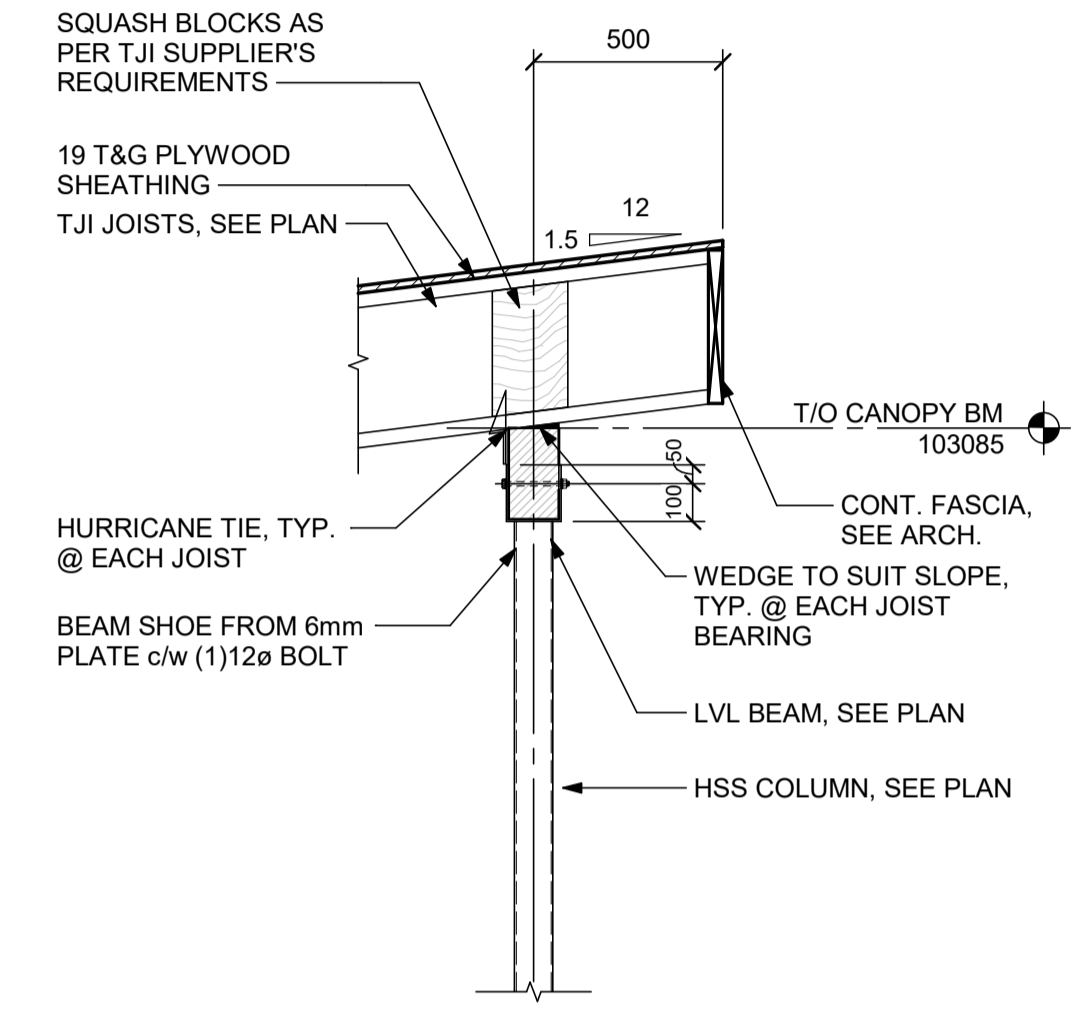
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S4.4 1:20



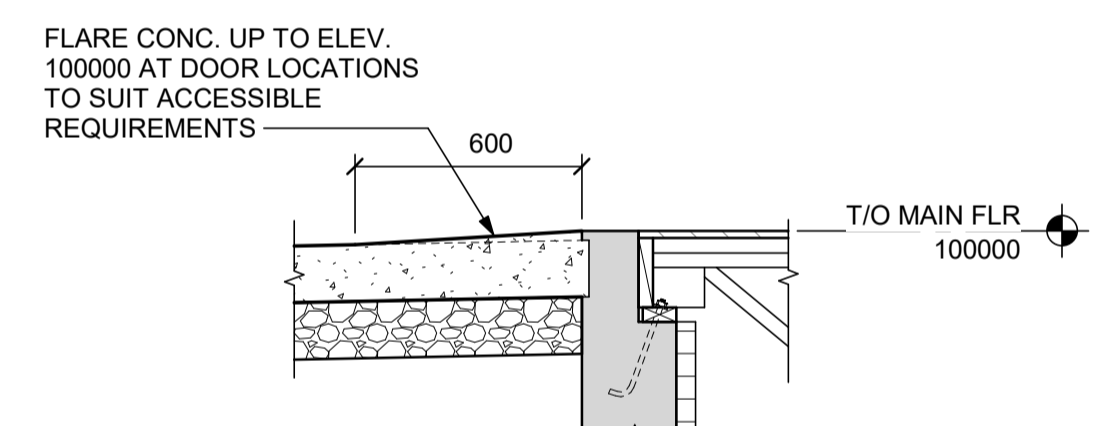
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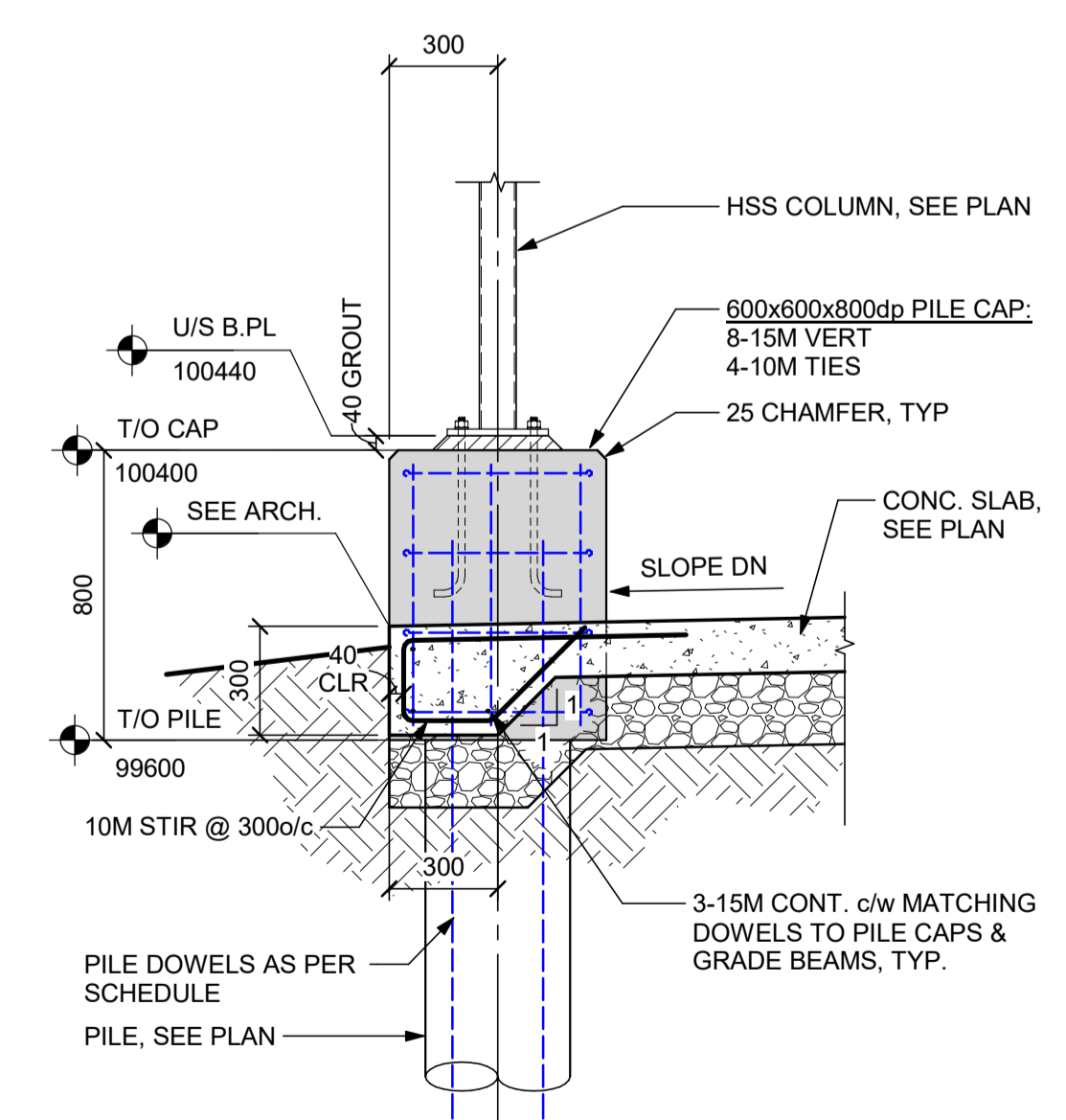
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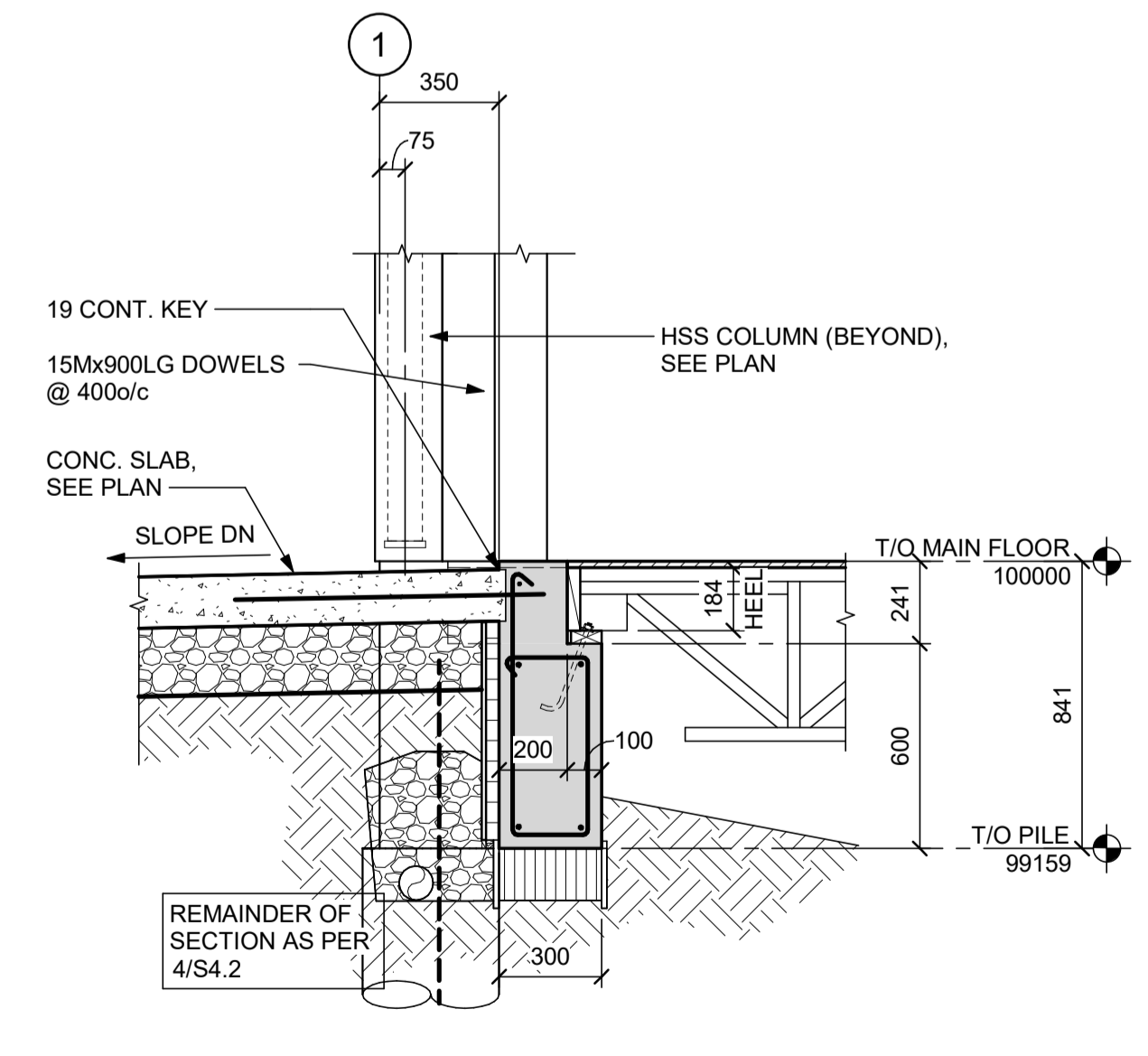
4 CANOPY SECTION
S4.4 1:20



DETAIL @ MANDOR



5 SECTION @ ENTRANCE CAP
S4.4 1:20



6 SECTION @ ENTRANCE
S4.4 1:20

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CANOPY DETAILS



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EQUIPMENT SCHEDULE

FURNACES: Armstrong Air, 97% efficient natural gas furnaces. Units to be complete with 409 stainless steel primary heat exchanger...

FURNACE F-1: Armstrong Air Model A97DS2V09C20S, Natural gas downflow furnace, first stage input = 16.7 kW (57 MBH)...

FURNACE F-2: Armstrong Air Model A97US2V07B12S, Natural gas upflow furnace, first stage input = 12.6 kW (43 MBH)...

ENERGY RECOVERY VENTILATOR ERV-1: Systemair Model Topxev TR800-240-1-CAV, ERW aluminum energy recovery wheel arranged for counter-flow ventilation...

ELECTRIC DUCT HEATER EDH-1: Thermolec duct mounted inline electric duct heater. Unit to be complete with 12" duct connections, 10,000 watt heating coil...

CONDENSING UNIT (CU-1): Armstrong air conditioner, Model 48CU16LS160P-3, Two stage condensing unit to be complete with high and low pressure switches...

CONDENSING UNIT (CU-2): Armstrong air conditioner, Model 48CU16LS136P-3, Two stage condensing unit to be complete with high and low pressure switches...

AIR CONDITIONING UNIT (AC-1): Mitsubishi Electric, Model PKA Series wall mounted air conditioner complete with all mounting hardware, swing vanes, super quiet operation...

CONDENSING UNIT (CU-3): Model PUY-A18NH4A-B5, Power shall be 208V/60/1 phase. Electrical: MCA: 13.0 A, MOPC: 20 Amps, Unit Weight: 41 kg (90 lbs).

REFRIGERANT LINESSET COVER: Slimduct SD, or approved equal, refrigerant piping lineset cover/ducting. Lineset duct to be constructed of UV resistant / stabilized, weather resistant and flame retardant rigid PVC...

CEILING CIRCULATION FAN CF-1: Big Ass Fan Haiku Ceiling Fan, 84" fan with universal mount, bamboo caramel airfoils and black motor finish...

RANGE HOOD (RH-1): Broan, Model CLLB130SS under cabinet ducted range hood. Unit to be 762mm (30") wide x 533mm (21") deep with 3-speed pushbutton with LCD, 3-level LED light, hybrid/baffle grease filters...

EXHAUST FAN - EF-1 (Crawlspace): Loren Cook, Model GNVF-700, forward curved, EC motor, inline cabinet fan, 125 L/s (270 CFM) @ 0.85" ESP...

ELECTRIC FORCE FLOW UNITS FF-1 AND FF-2: Commercial ceiling fan heater, Ouellet, or approved equal, Model OACP3000, 3,000 Watt (10,246 BTU), 75 L/s (160 CFM) fan...

ELECTRIC UNIT HEATERS: Commercial suspended electric unit heater, Ouellet, or approved equal, 18 gauge steel construction, adjustable louvers to direct air flow...

UH-1: Model OAS03000AM, 3,000 Watt (10,236 BTU), 240 L/s (510 CFM) fan, Motor electrical = 240V/60/1 phase, 1/30 HP.

GAS FIRED UNIT HEATER (UH-3): Modine, or approved equal, Model HD 45, Power-exhausted, gas fired unit heater, 340 L/s (720 CFM) air flow, 13.2 kW (45 MBH) input...

ELECTRIC BASEBOARD RADIATION BB-1 AND BB-2: Ouellet Model OPR1502, 1500-Watt heavy duty steel sloped top baseboard heater, 16 gauge steel front, 18 gauge steel cabinet...

CONDENSATE NEUTRALIZERS: Axiom Model NC-1 NeutraPal Condensate Neutralization capsule complete with 0.26 U.S. gallon transparent capsule made from food of corrosion resistant materials...

EXTERIOR WALL LOUVRE: Price Model DE635, stationary extruded 152mm (6") deep aluminum drainable blades positioned at 35 degrees, extruded aluminum frame and supports...

MOTORIZED DAMPERS: Tamco, or approved equal, Series 9000, thermally broken extruded aluminum dampers. Damper frame shall be no less than 4" (100mm) deep and insulated with polystyrene on all four sides...

MOTORIZED DAMPER ACTUATORS: Damper operator shall be electric and be provided for each automatic damper and shall be of sufficient capacity to operate the damper under all conditions and to guarantee tight close-off, as specified, against system pressure encountered...

PLUMBING EQUIPMENT

DOMESTIC HOT WATER HEATER (WH-1): Bradford White, Model RG2PDV40S6N, Residential Upright High Efficiency Gas-Fired Water Heater. Unit to be rated at 11.7 kW (40 MBH) input with a storage capacity of 151 Litres (40 U.S. Gallons)...

DOMESTIC HOT WATER RECIRCULATION PUMP (P-1): Taco centrifugal direct drive pump with stainless steel construction for domestic water use. Pump shall be self-lubricating with replaceable cartridge...

SUMP PUMP (SP-1): Myers, or approved equal, Model SSM33, submersible pump, oil filled with overload protection, cast iron housing, cast iron seal plate, mechanical seal, cast iron impeller...

SEWAGE LIFT STATION (LS-1): Little Giant, or approved equal, Model 16G-DPLX packaged duplex submersible pump system.

EXPANSION TANK (ET-1) (Domestic Hot Water System): Amtrol Thermo-x-trol Series Model ST-5, 2.0 US Gallons (7.57 litres) total volume, 0.9 US Gallons (3.4 litres) Max Acceptance, diaphragm design, 8" (200mm) diameter x 13" (325mm) height...

FLOW LIMITING VALVE: Griswold Flowcon automatic flow limiting valve complete with isolation valve, strainer and gauge ports. Units to be line size with internal cartridge sized based on flow requirements and installed as per manufacturer's recommendations...

REDUCED PRESSURE BACKFLOW ASSEMBLY: Watts Series 009 line size reduced pressure testable double check valve assembly complete with quarter turn shut-off valves and bronze wye strainer.

WATER METER: New water meter to approval of the Town of

FIRE PROTECTION EQUIPMENT

FIRE/SMOKE DAMPERS (with factory mounted smoke detector): Nailor, 1200 series combination Fire/Smoke Dampers with DSD-NF no flow factory mounted duct smoke detector. ULC listed types as noted on drawings...

FIRE EXTINGUISHER (Wall Hung): 4.6 kg (10 lb) capacity Multi-Purpose ABC dry chemical fire extinguisher with 2-A-10-B-C rating complete with wall bracket.

FIRE EXTINGUISHER CABINET FEC-1: National Fire Equipment Ltd. Model 102RS-SS semi-recessed stainless-steel cabinet with glass in door, complete with a 5 lbs capacity Multi-Purpose ABC dry chemical fire extinguisher with 2-A-10-B-C rating complete with wall bracket.

GRILLES AND DIFFUSERS

S-1: E.H. Price, Model LBP25C/1000/66, linear bar grille complete with pencil proof core bars supplied parallel to long dimension, brushed aluminum finish with clear coat.

S-2: E.H. Price Model SPD 600x600/SPD/31/B12, square plaque diffuser complete with equalizing grid, T-bar installation or surface mount. Finish: white powder coat.

S-3: E.H. Price Model SPD 300x300/SPD/31/B12, square plaque diffuser complete with equalizing grid, T-bar installation or surface mount. Finish: white powder coat.

S-4: E.H. Price Model 520/LNB12, double deflection sidewall grille, surface mount with narrow frame. Finish: white powder coat.

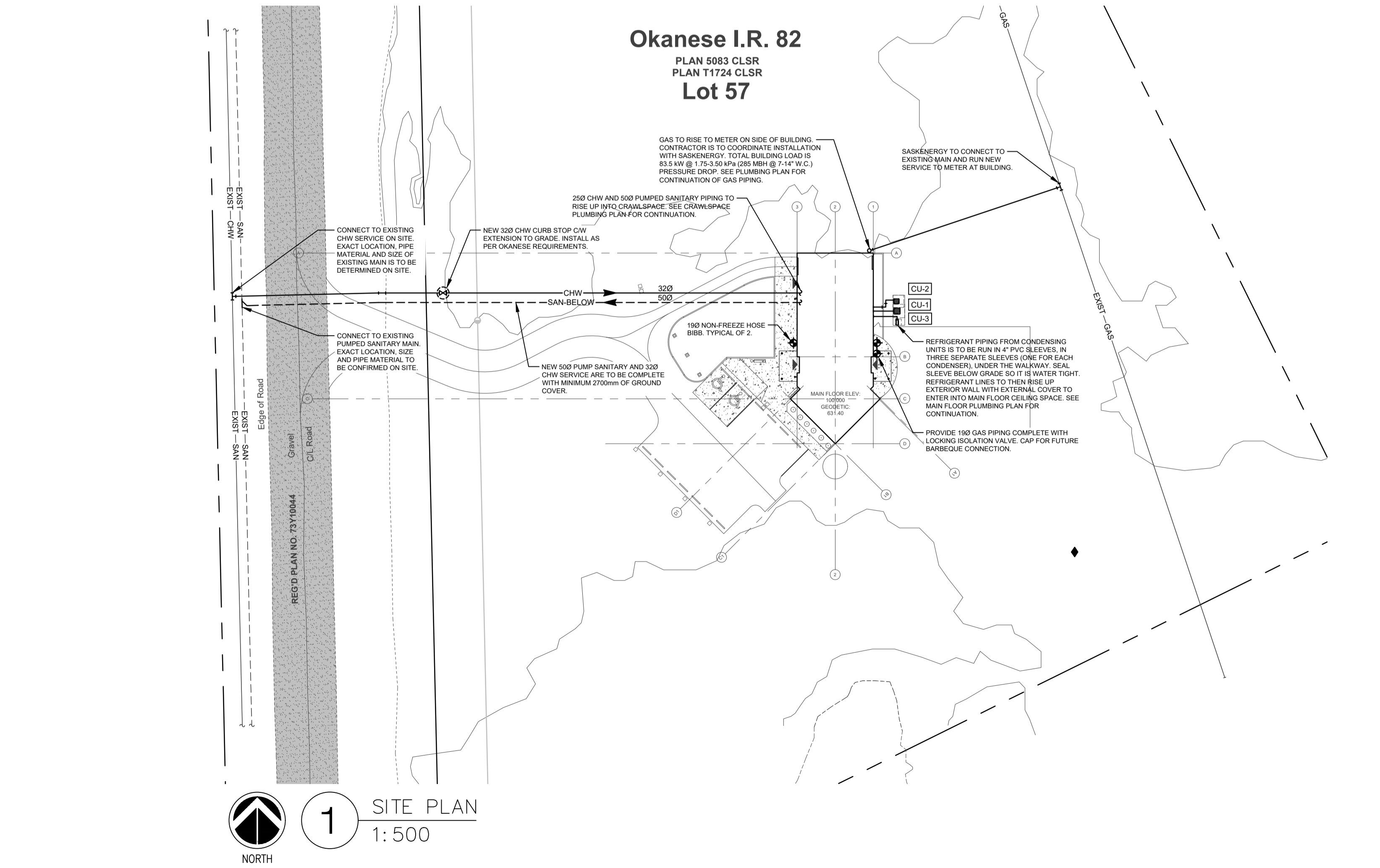
R-1: E.H. Price, Model 85/F/A/B12, eggcrate face return, surface mount to match ceiling or wall, white powder coat finish.

R-2: E.H. Price, Model 530/LNB12, sidewall return, surface mount on wall, white powder coat finish.

E-1: E.H. Price, Model 85/F/A/B12, eggcrate face exhaust, surface mount to match ceiling or wall, white powder coat finish. Grille to be complete with opposed blade damper VCS3.

E-2: E.H. Price, Model 85/F/A/B12, eggcrate face exhaust, surface mount to match ceiling or wall, white powder coat finish. Grille to be complete with opposed blade damper VCS3. Provide backdraft damper in duct before grille.

E-3: E.H. Price, Model 80/F/A/B12, eggcrate face exhaust, surface mount with filter frame and grease filter, white powder coat finish. Grille to be complete with opposed blade damper VCS3. Provide backdraft damper in duct before grille.



LEGEND

Legend symbols and descriptions for plumbing, electrical, and fire protection equipment, including items like CHW, HHW, RECIRC, GAS, SAN, STORM, ISOLATION VALVE, CHECK VALVE, TWO-WAY AUTOMATIC CONTROL VALVE, etc.



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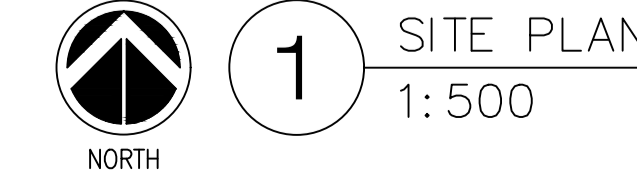
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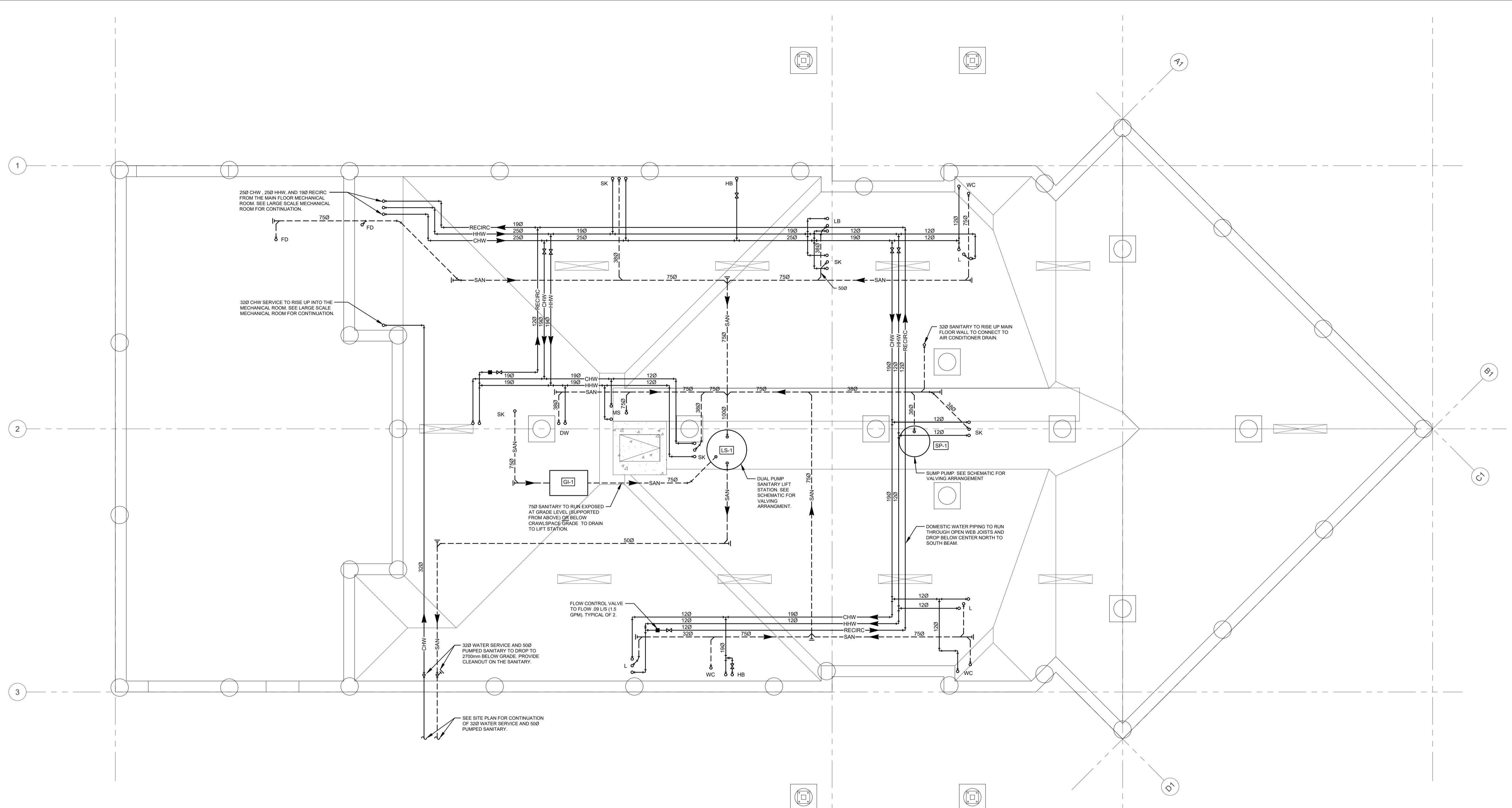
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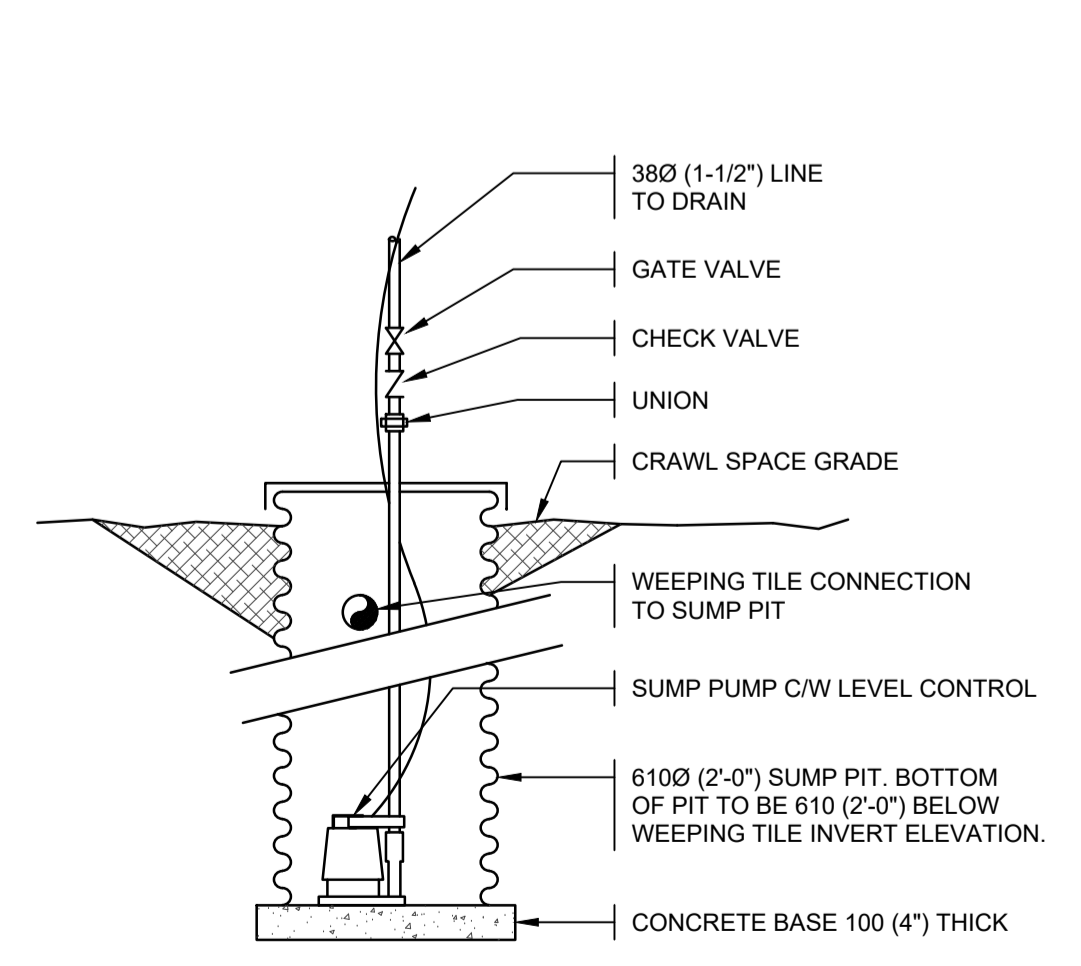
PROJECT TITLE: PROPOSED CONSTRUCTION AHSOR HEADSTART FACILITY BALCARRES, SASKATCHEWAN

DRAWING TITLE: MECHANICAL EQUIPMENT SCHEUDLE AND SITE PLAN. Includes drawing and scale information.

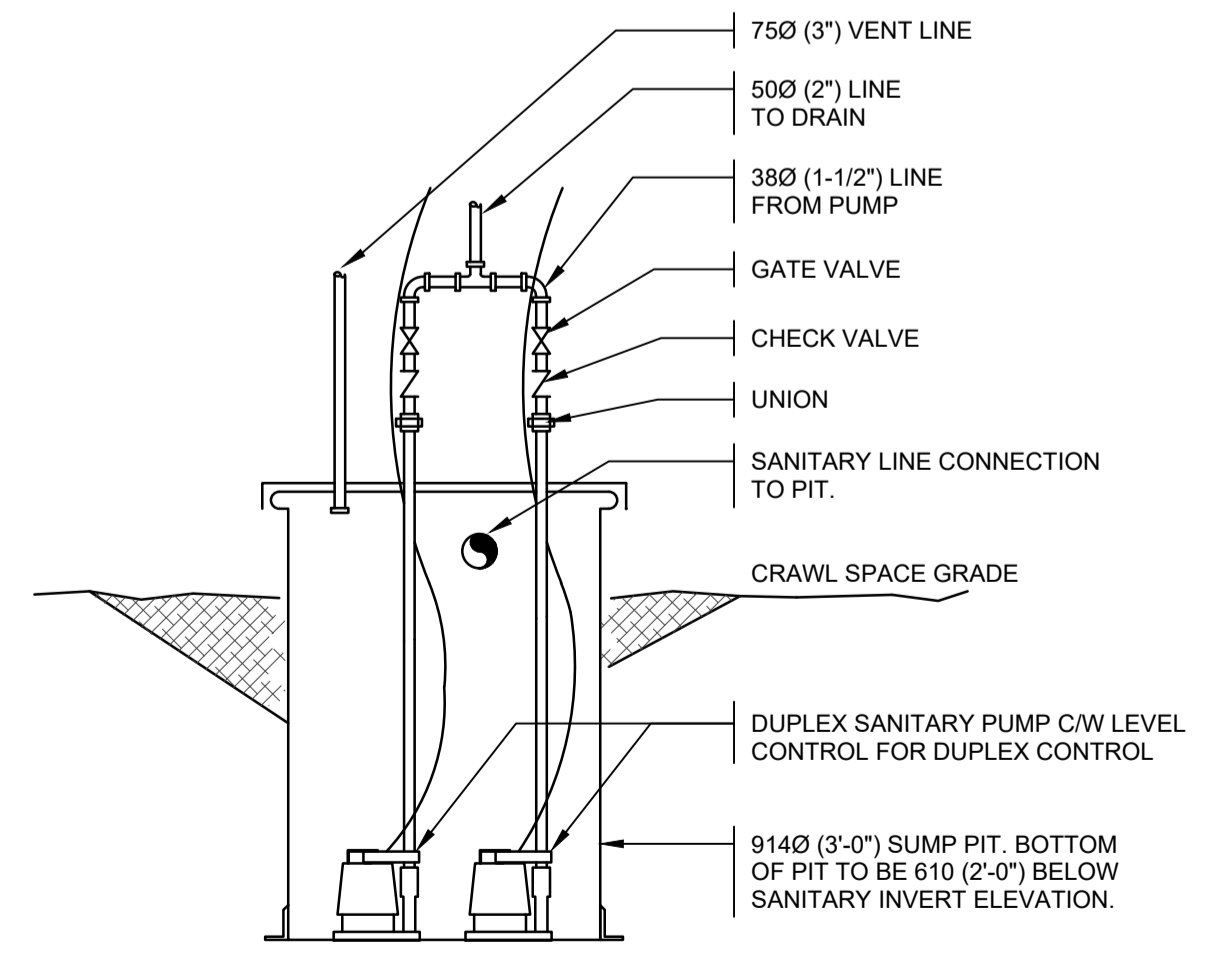




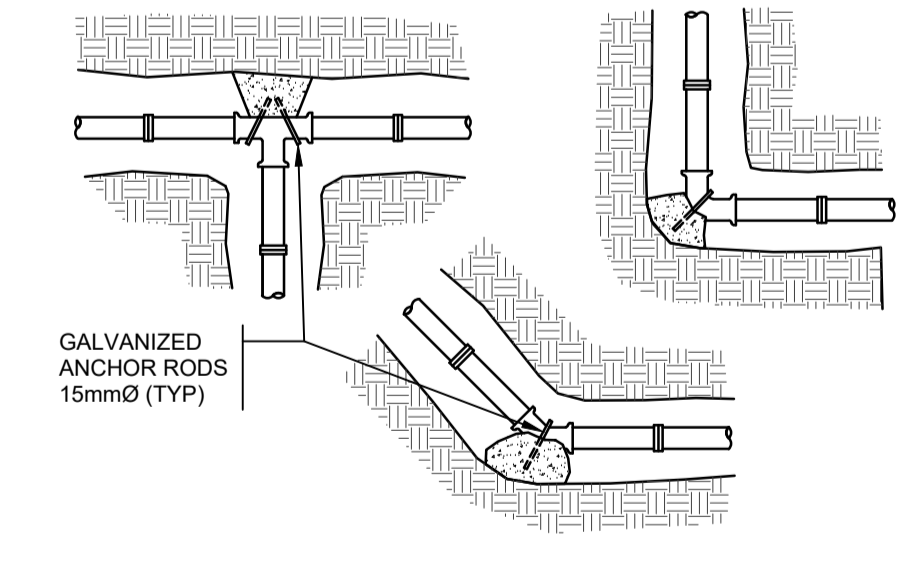
1 CRAWL SPACE PLAN
1:50



CRAWL SPACE SUMP DETAIL n.t.s.



SEWAGE LIFT STATION DETAIL n.t.s.



MINIMUM AREA OF CONCRETE THRUST BLOCK FROM FITTING TO SOLID GROUND
(CONCRETE STRENGTH 20MPa @ 28 DAYS)

SIZE OF PIPE	45° BEND	90° BEND	TEE
100 mm	7 dm SQ	20 dm SQ	10 dm SQ
150 mm	20 dm SQ	27 dm SQ	20 dm SQ
200 mm	27 dm SQ	47 dm SQ	37 dm SQ
250 mm	42 dm SQ	74 dm SQ	54 dm SQ

NOTE: ALL UNITS ARE IN SQUARE DECIMETERS

THRUST BLOCK DETAIL n.t.s.

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HDA
ENGINEERING
Mechanical Engineering Consultants
2334 8th Avenue Regina, SK S4R 1C3
P: 306.525.9815 E: hda@hdaeng.com

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ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

PROFESSIONAL ENGINEER
E. K. COOKE
MEMBER 11372
24 07 18
YR. MN. DAT.
SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
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Mech. 11372

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OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
CRAWLSPACE PLAN
PLUMBING

DRAWN BY: CMS CHECKED BY: JLV APPROVED:
SCALE: AS SHOWN DATE: 18 JUL 24 DATE:
FILE NO: 22-117 DRAWING NO: M-2
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WEB: www.kreate-arch.com

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TEL: 306.525.8815 • EMAIL: info@bbk-engineers.ca



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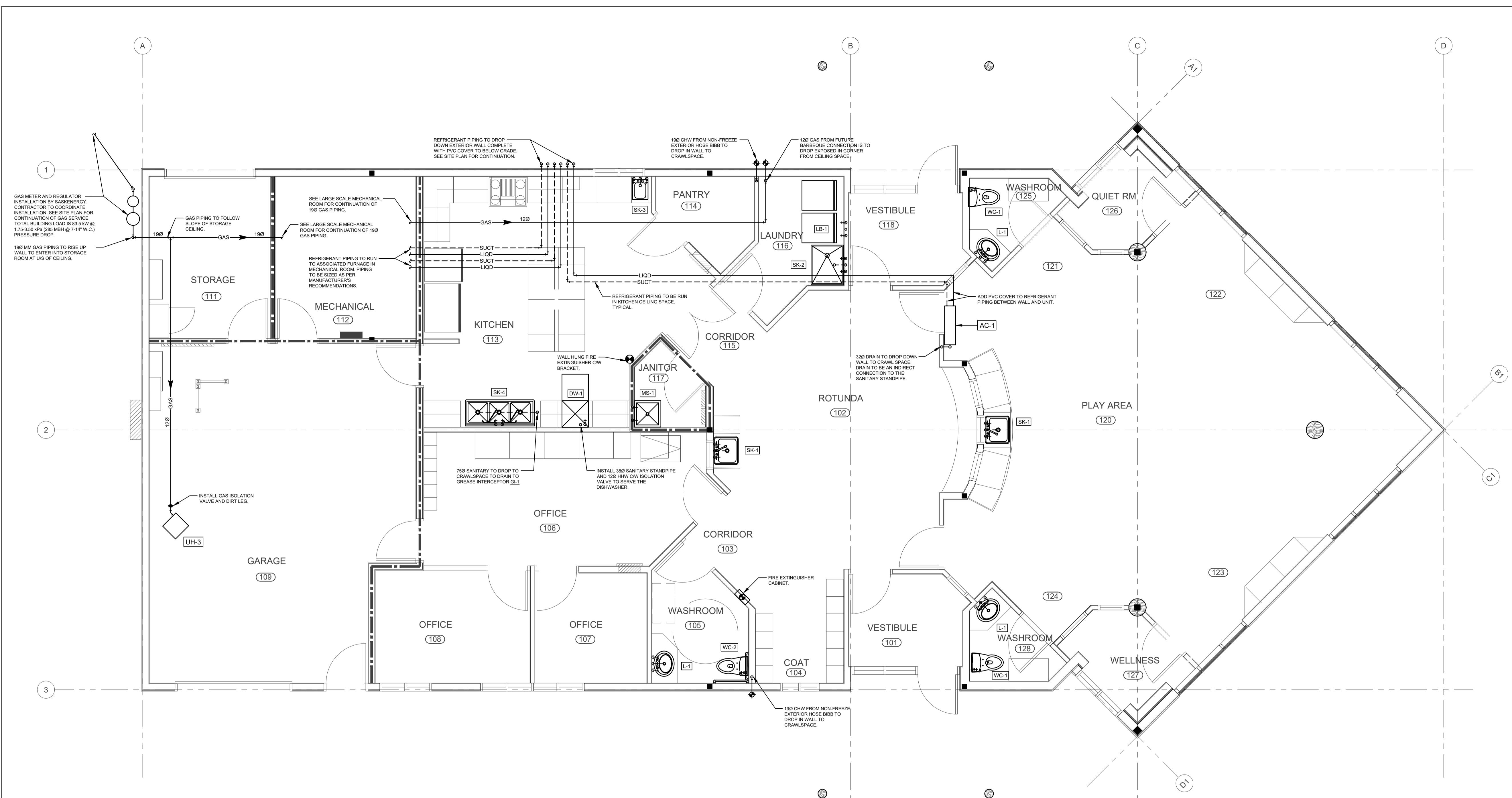
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BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
MAIN FLOOR PLAN
PLUMBING

DRAWN BY: CMS CHECKED BY: JLW APPROVED: [Signature]
SCALE: AS SHOWN DATE: 18 JUL 24 DATE: [Signature]
FILE NO: 22-117 DRAWING NO: M-3
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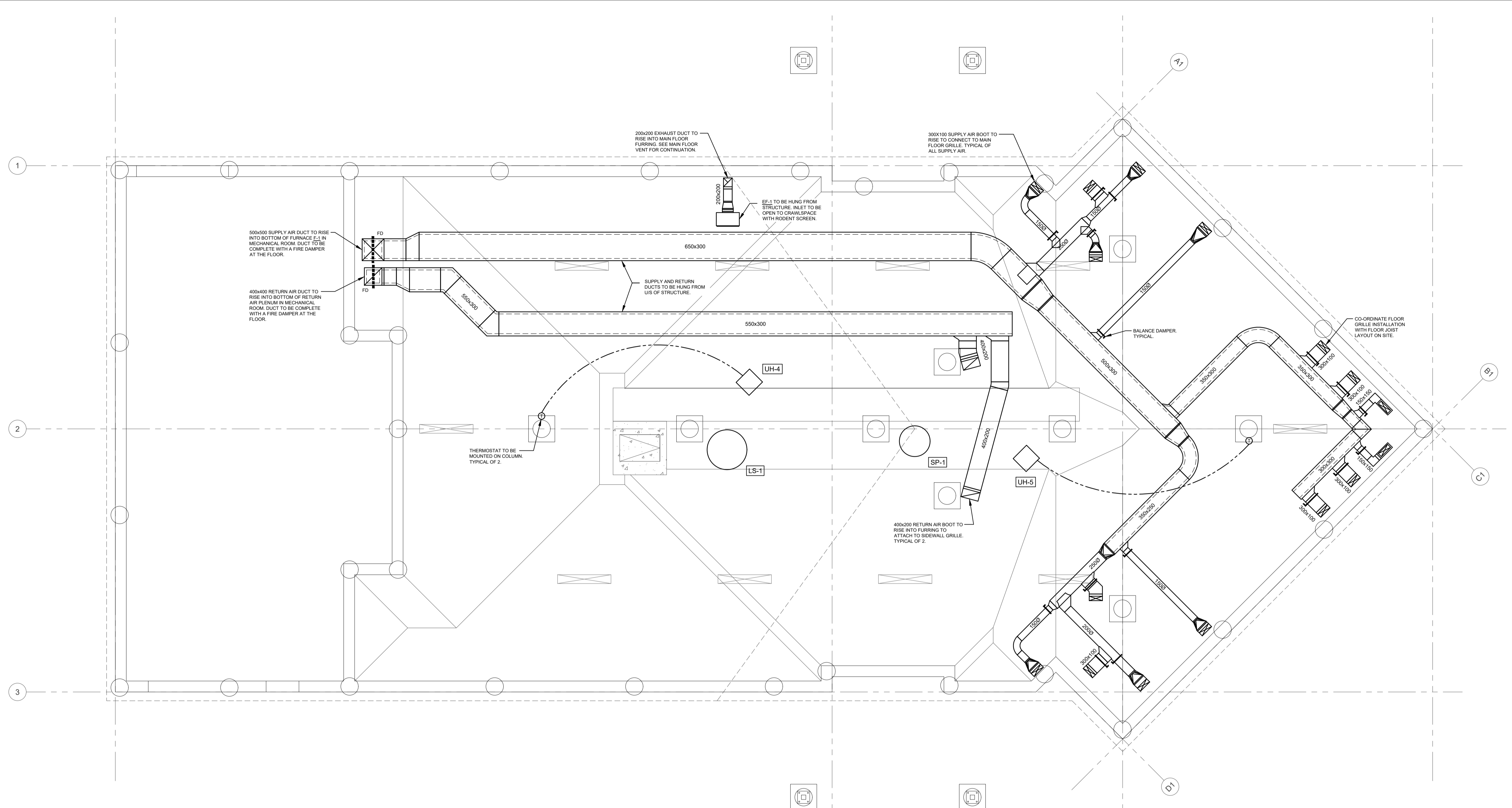


1 MAIN FLOOR PLAN
1:50
NORTH

- PLUMBING GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.
 - RUN WATER PIPING AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE IN ALL AREAS.
 - ALL PLUMBING BRANCH LINES ARE 120 UNLESS NOTED OTHERWISE.
 - VENTING AS PER LOCAL CODES AND REQUIREMENTS.
 - PROVIDE ISOLATION GAS VALVE ON GAS LINE TO ALL EQUIPMENT.
 - MAKE ALL CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS. REFER TO DETAILS FOR CONNECTIONS.

PLUMBING ROUGH-IN SCHEDULE:

FIXTURE	PIPE SIZE	WATER	WASTE
LAVATORY	120 (1/2")	HOT & COLD WATER	320 (1-1/4")
KITCHEN SINK	120 (1/2")	HOT & COLD WATER	380 (1-1/2")
SERVICE SINK	120 (1/2")	HOT & COLD WATER	500 (2")
DRINKING FOUNTAIN	120 (1/2")	COLD WATER	380 (1-1/2")
WATER CLOSET (TANK TYPE)	120 (1/2")	COLD WATER	750 (3")
WASHER	120 (1/2")	HOT & COLD WATER	500 (2")
HOSE BIBB	190 (3/4")	HOT AND/OR COLD WATER	-
FLOOR DRAIN	-	-	750 (3")



1 CRAWL SPACE PLAN
1:50
NORTH

- VENTILATION GENERAL NOTES**
- ALL DUCTWORK SHOWN DOUBLE LINE INSIDE PERIMETER OF DUCT IS TO BE COMPLETE WITH 25mm INTERNAL INSULATION. ALL OTHER DUCTWORK IS TO BE C/W 25mm EXTERNAL INSULATION. SIZES INCLUDE INTERNAL INSULATION WHERE APPLICABLE.
 - ALL FITTINGS ON INTERNALLY INSULATED DUCTWORK ARE TO BE C/W INTERNAL INSULATION. ALL OTHERS ARE TO BE EXTERNALLY INSULATED.
 - ALL SUPPLY AIR AND EXHAUST AIR BRANCH DUCTS TO GRILLES AND DIFFUSERS ARE TO BE C/W BALANCE DAMPERS IN BRANCH DUCT NEAR MAIN, UNLESS BALANCE DAMPERS ARE PROVIDED IN GRILLE OR DIFFUSER.
 - ALL EXHAUST FANS ARE TO BE SUSPENDED FROM STRUCTURE ON THREADED ROD C/W SPRING ISOLATORS.
 - ALL RADIUSSED ELBOWS TO BE WITH CENTERLINE RADIUS MINIMUM OF 1.5 TIMES DUCT DIAMETER (ROUND DUCTS) OR DUCT WIDTH (RECTANGULAR) UNLESS NOTED OTHERWISE. NO SQUARE/SHARP THROAT ELBOWS ALLOWED. ALL MITERED ELBOWS TO BE COMPLETE WITH AIRFOIL TURNING VANES. ALL RECTANGULAR BRANCHES TO BE WITH RADIUS ON BRANCH 1.5 TIMES WIDTH OF DUCT. ALL ROUND BRANCHES TO ENTER MAIN DUCT AT 45 DEGREES WITH CONICAL CONNECTION.
 - PROVIDE ACCESS DOORS FOR ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, CONTROL DEVICES, AND TO FACILITATE DUCT CLEANING.
 - COORDINATE ALL WORK WITH OTHER TRADES.
 - RUN DUCTS AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE.

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REGINA, SASKATCHEWAN
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2324 8th Avenue Regina, SK S4R 1C3
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ELECTRICAL

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PROFESSIONAL ENGINEER
MEMBER 11372
24 07 18
YR. MN. DAT
SASKATCHEWAN

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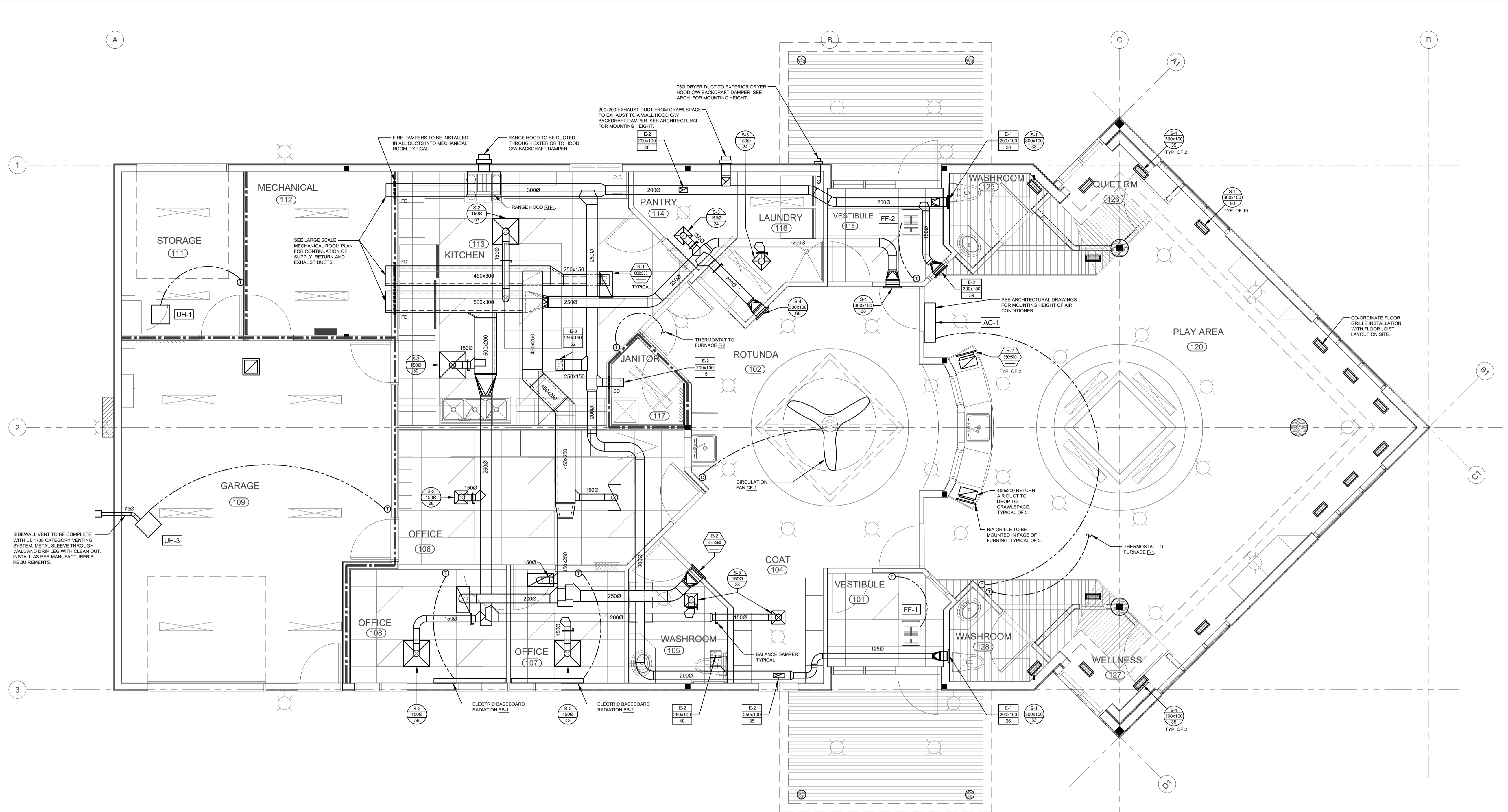
CLIENT INFORMATION:
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P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

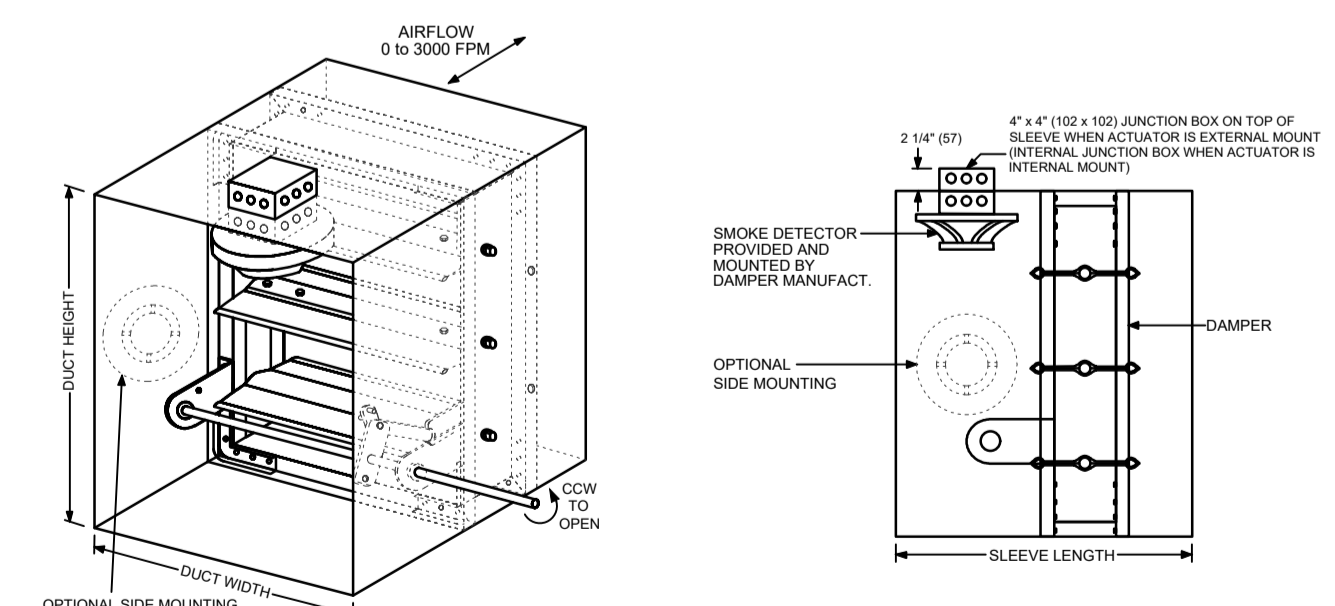
DRAWING TITLE:
CRAWL SPACE PLAN
HEATING, COOLING AND
VENTILATION

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SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
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1 MAIN FLOOR PLAN
1:50



NOTES:
1. The actuator and electric resettable link are to be wired and tied into the smoke detector

**SMOKE DAMPER
MANUFACTURER MOUNTED DUCT SMOKE DETECTOR**



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FX: 306.585.2399
EM: office@kreate-arch.com
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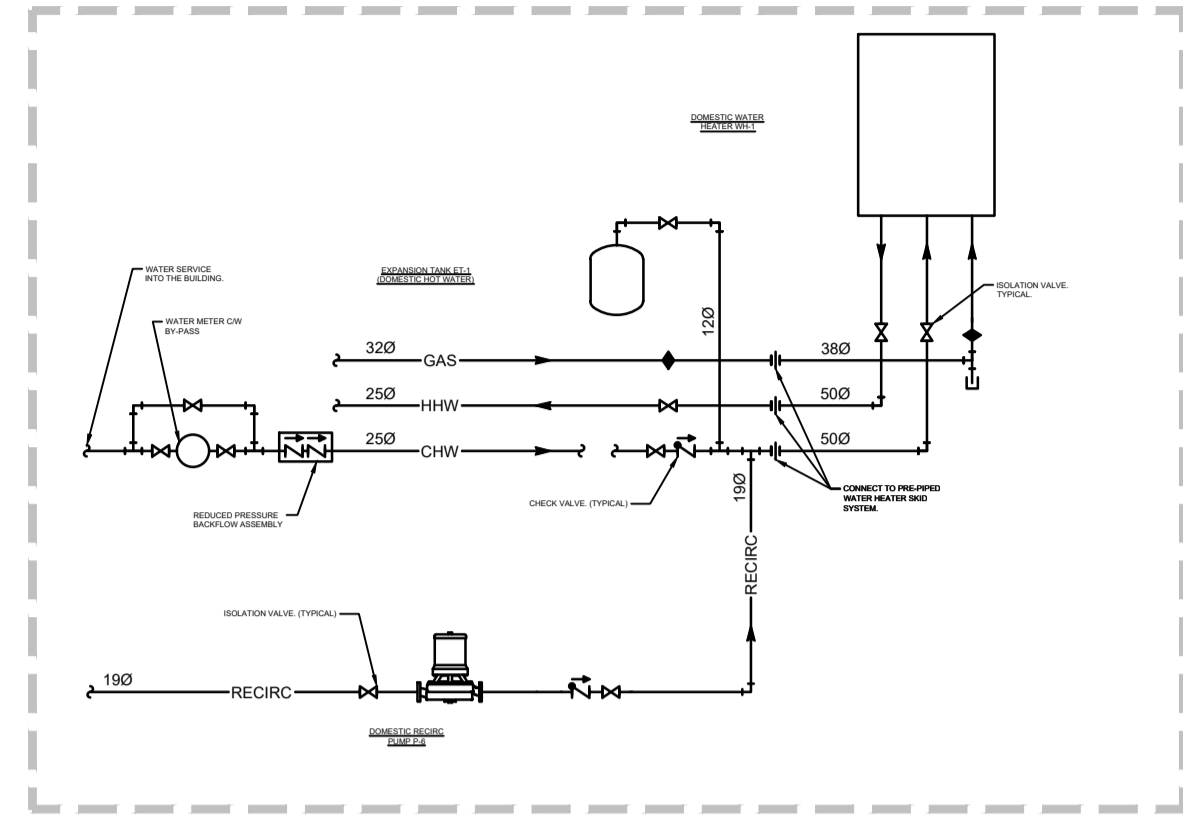
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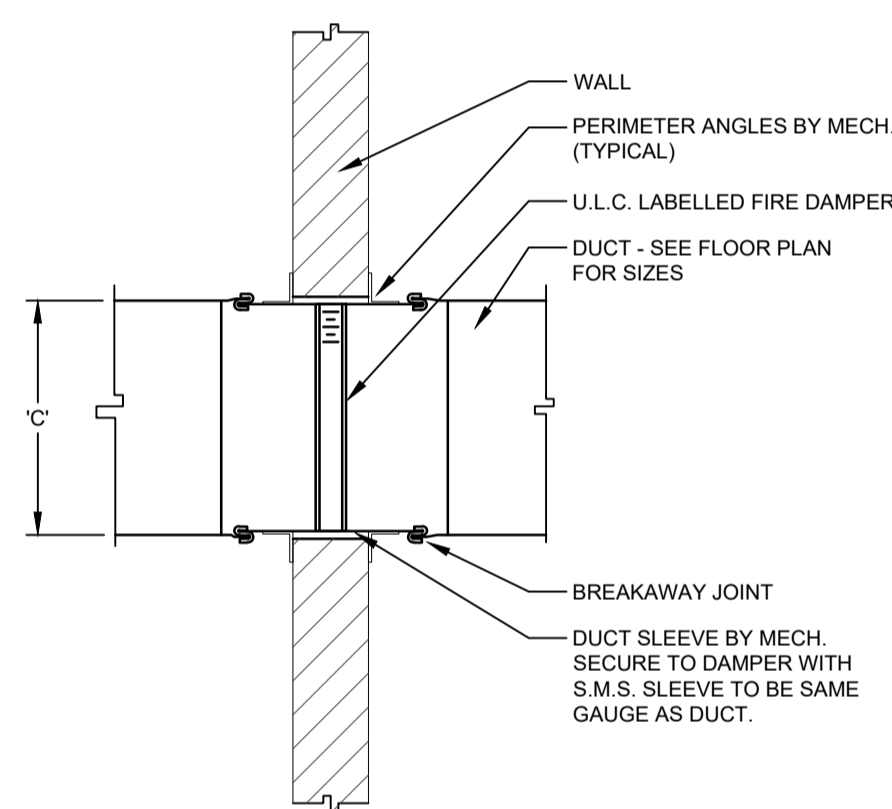
DRAWING TITLE:
MAIN FLOOR PLAN
HEATING, COOLING AND
VENTILATION

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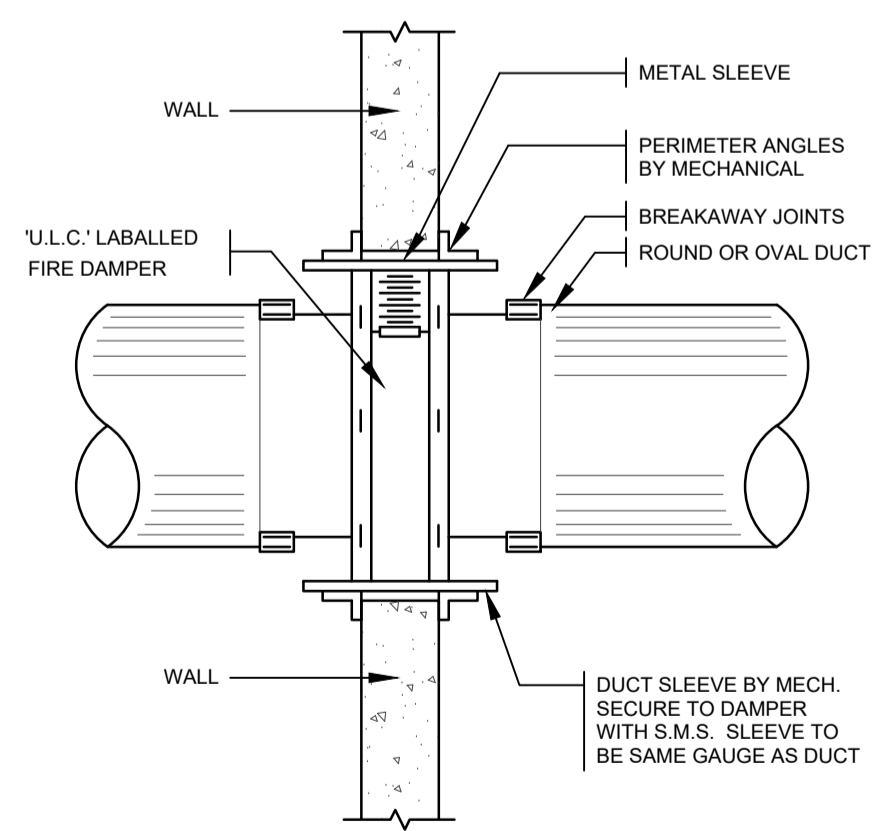


DOMESTIC HOT WATER PIPING SCHEMATIC

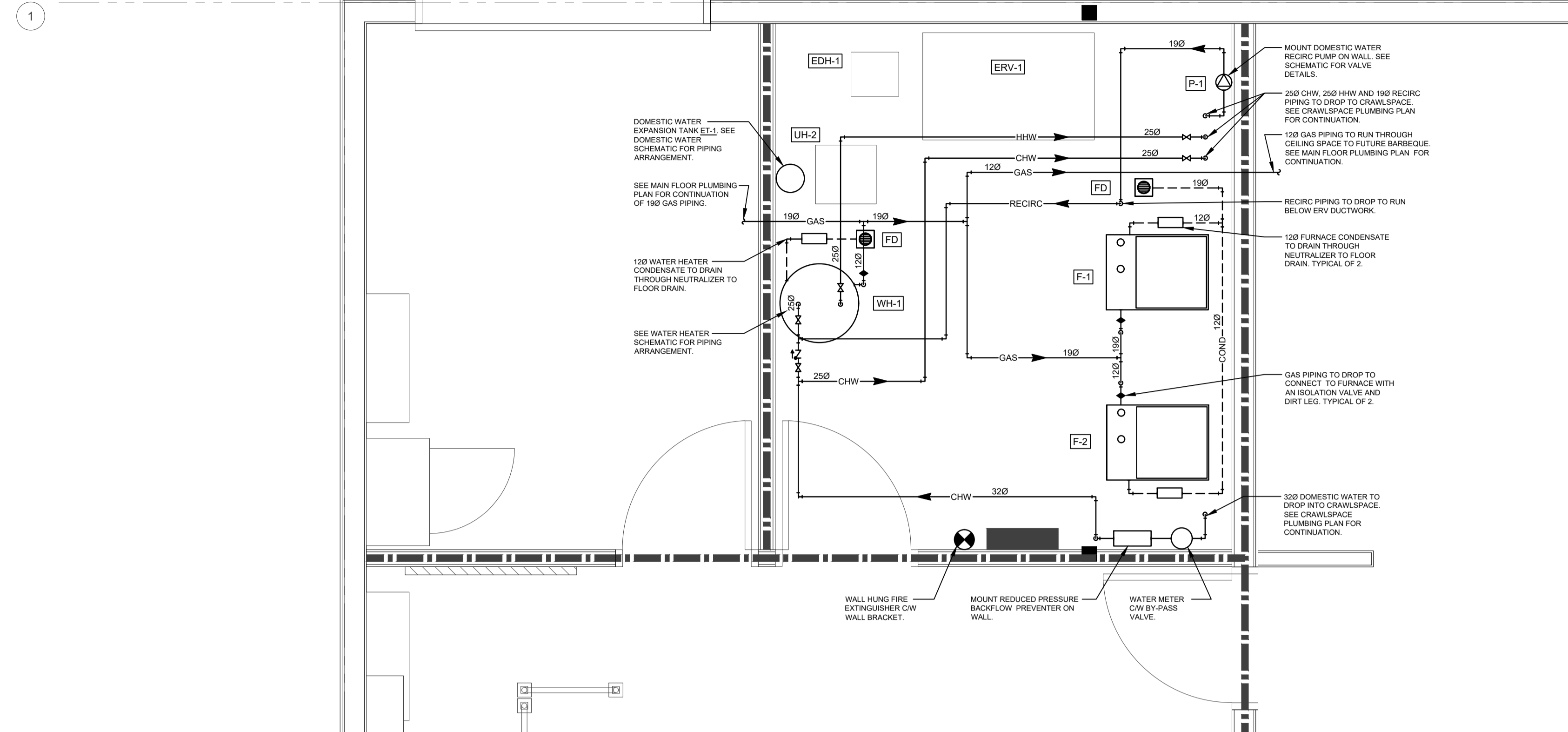


FOR DUCTS WITH 'C' DIMENSION 300 (12") AND LARGER

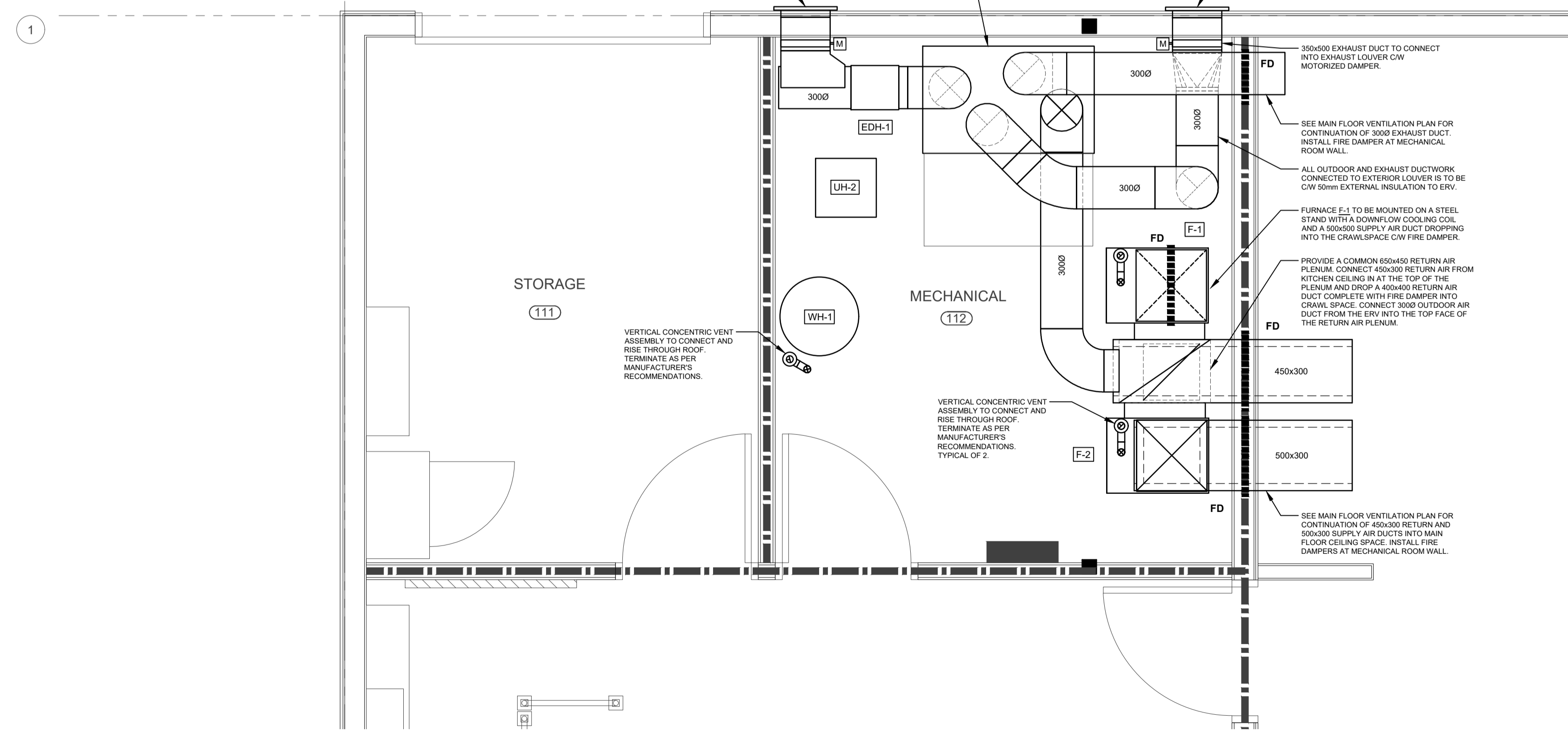
TYPE 'A' FIRE DAMPER



TYPE 'C' FIRE DAMPER



1 MECHANICAL ROOM PLAN - PLUMBING
1:25



2 MECHANICAL ROOM PLAN - VENTILATION
1:25

ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

PROFESSIONAL ENGINEER
E. K. COOKE
MEMBER 11372
24 07 18
YR. MN. DAT.
SASKATCHEWAN

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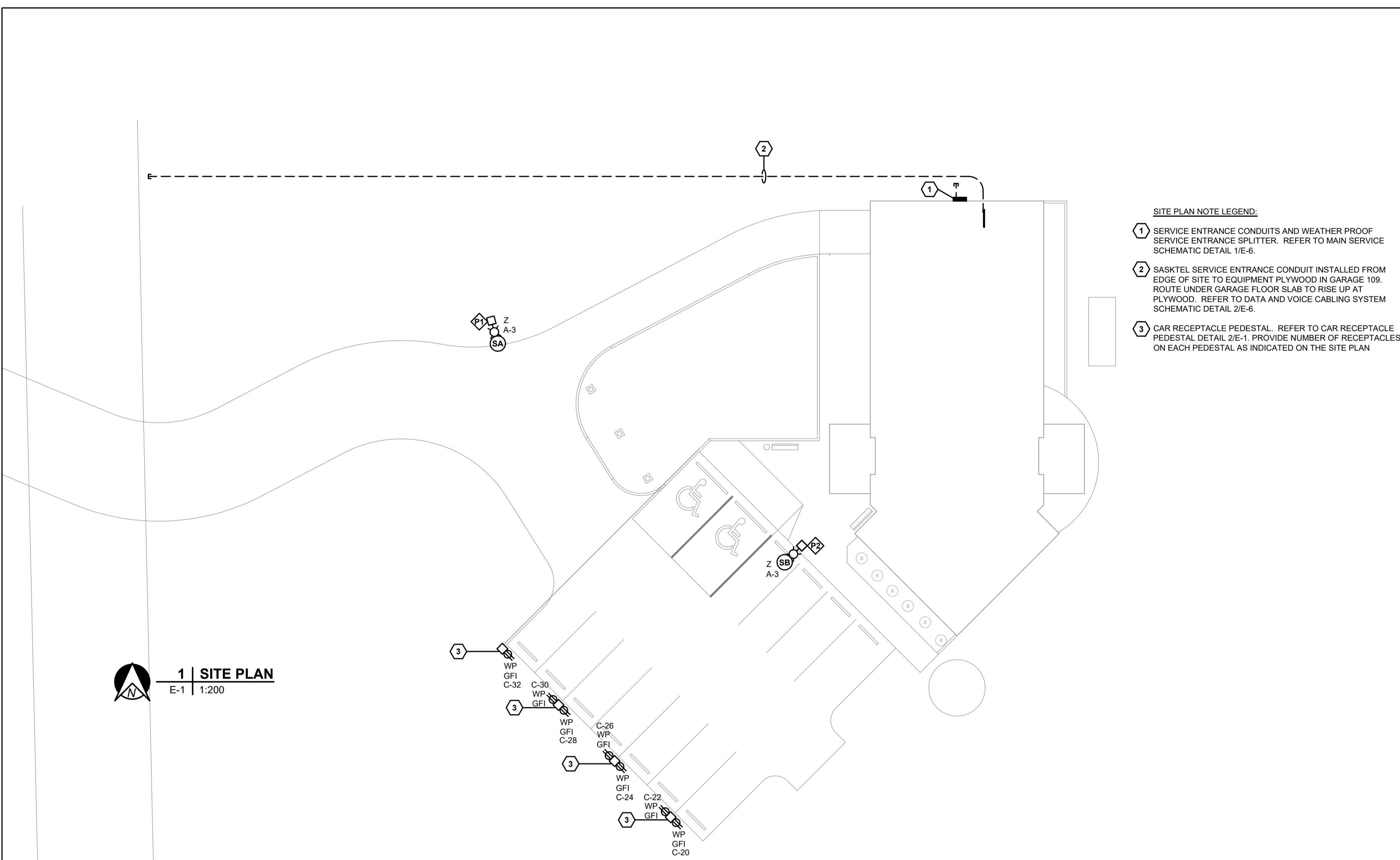
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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
MECHANICAL ROOM PLANS

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SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO: 22-117	DRAWING NO: M-6	

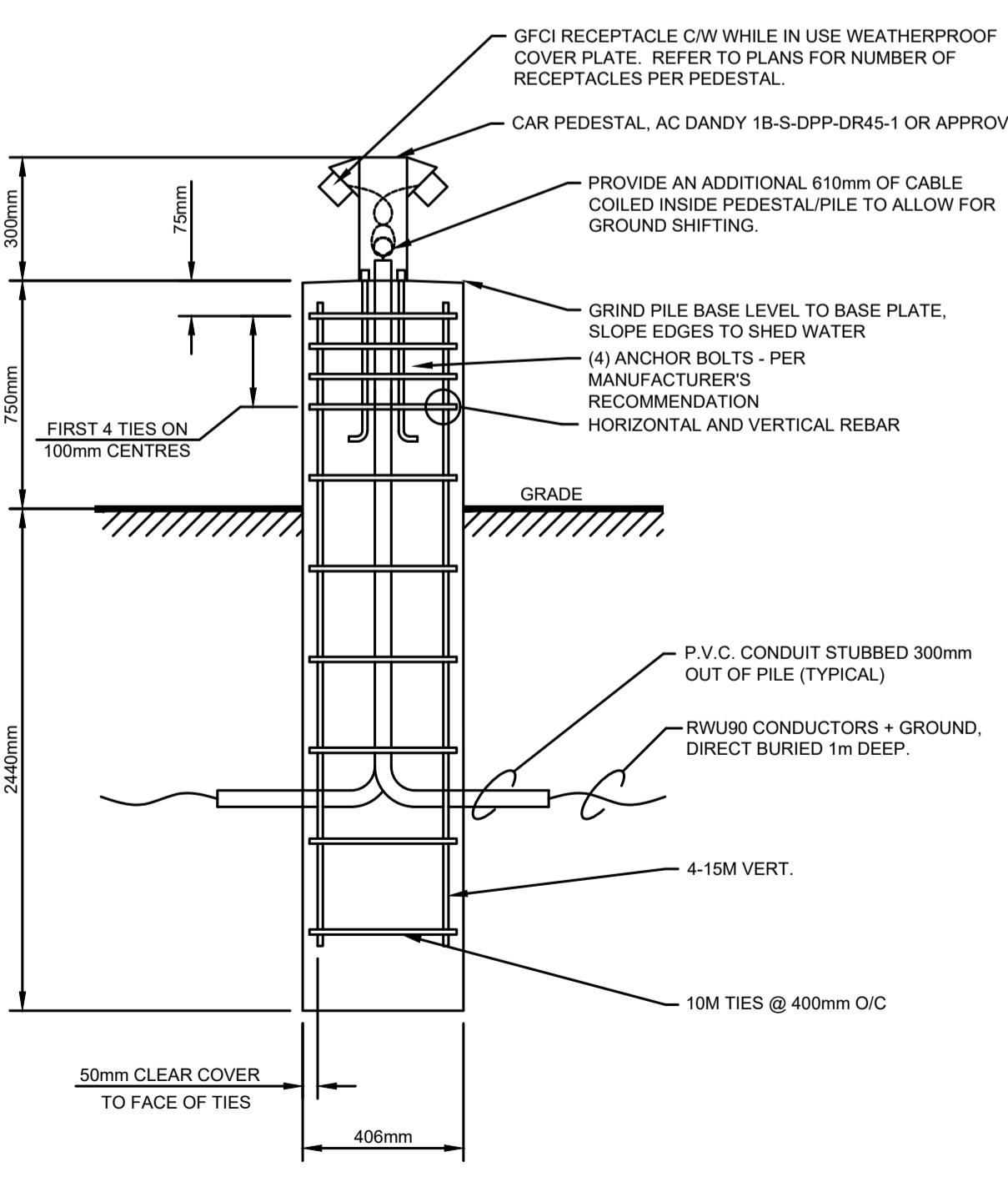
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1 | SITE PLAN
E-1 | 1:200

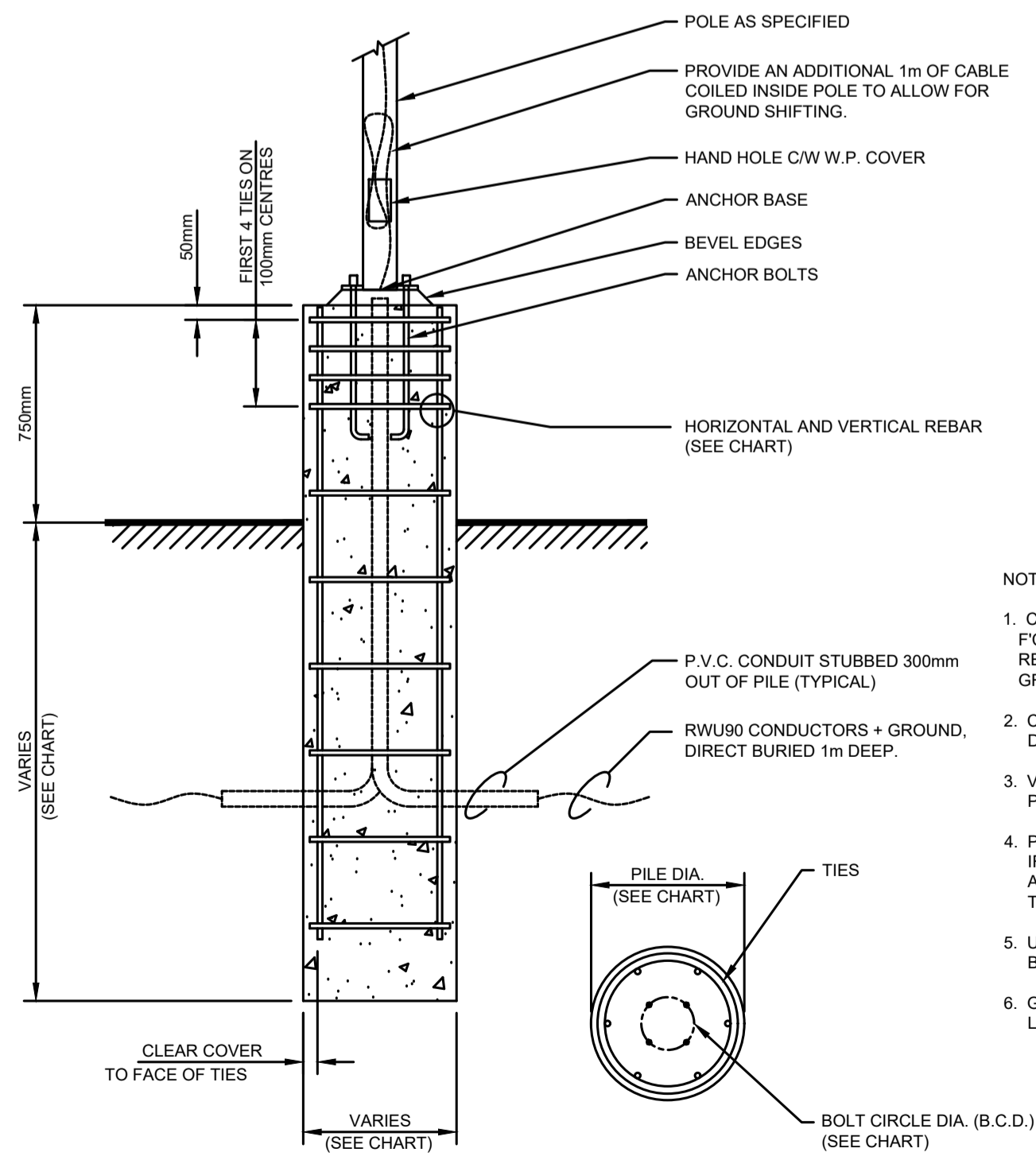


- SITE PLAN NOTE LEGEND:**
- 1 SERVICE ENTRANCE CONDUITS AND WEATHER PROOF SERVICE ENTRANCE SPLITTER. REFER TO MAIN SERVICE SCHEMATIC DETAIL 1/E-6.
 - 2 SASKTEL SERVICE ENTRANCE CONDUIT INSTALLED FROM EDGE OF SITE TO EQUIPMENT PLYWOOD IN GARAGE 109. ROUTE UNDER GARAGE FLOOR SLAB TO RISE UP AT PLYWOOD. REFER TO DATA AND VOICE CABLING SYSTEM SCHEMATIC DETAIL 2/E-6.
 - 3 CAR RECEPTACLE PEDESTAL. REFER TO CAR RECEPTACLE PEDESTAL DETAIL 2/E-1. PROVIDE NUMBER OF RECEPTACLES ON EACH PEDESTAL AS INDICATED ON THE SITE PLAN

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LED LIGHT FIXTURE - SURFACE MOUNT
	LED LIGHT FIXTURE - RECESS MOUNT
	LED LIGHT FIXTURE - SURFACE MOUNT
	LED LIGHT FIXTURE - RECESS MOUNT
	LED LIGHT FIXTURE - WALL MOUNT
	EXIT LIGHT FIXTURE - WALL / CEILING MOUNT - FILLED SIDE INDICATES FACE
	BATTERY OPERATED REMOTE EMERGENCY LIGHT - WALL MOUNT - SINGLE / DOUBLE UNIT
	BATTERY OPERATED REMOTE EMERGENCY LIGHT - CEILING MOUNT - SINGLE / DOUBLE UNIT
	BATTERY OPERATED EMERGENCY LIGHTING UNIT - WALL MOUNT / CEILING MOUNT
	LETTERS INDICATE LIGHT FIXTURE TYPE
	SITE LIGHTING POLE TYPE
NL	UNSWITCHED NIGHT LIGHT
\$	SINGLE POLE SWITCH
\$3 \$4 \$D	3-WAY SWITCH, 4-WAY SWITCH, DIMMER SWITCH
\$K \$PL \$LV	KEYED SWITCH, PILOT LIGHT SWITCH, LOW VOLTAGE SWITCH
\$VD	DIMMING VACANCY SWITCH
\$ # # #	MULTI GANG SWITCHES
	LIGHTING CONTROL OCCUPANCY SENSOR - WALL / CEILING MOUNT / WALL SWITCH
	LIGHTING CONTROL VACANCY SENSOR - WALL / CEILING MOUNT / WALL SWITCH
	PHOTOCELL
	DAYLIGHT SENSOR - CEILING MOUNT
	PANELBOARD - RECESSED / SURFACE
	DUPLEX RECEPTACLE - WALL MOUNT / FLOOR MOUNT / CEILING MOUNT
	SPLIT BUS RECEPTACLE
	COMBINATION DUPLEX RECEPTACLE WITH USB CHARGER
	DUPLEX RECEPTACLE - TOP HALF SWITCHED
	DUPLEX RECEPTACLE - EMERGENCY POWER
	SPECIAL PURPOSE OUTLET - SIZE AS NOTED ON DRAWINGS
	TELEPHONE OUTLET - WALL MOUNT / FLOOR MOUNT / CEILING MOUNT
	DATA OUTLET - WALL MOUNT / FLOOR MOUNT / CEILING MOUNT
	TELEVISION OUTLET - WALL MOUNT / FLOOR MOUNT / CEILING MOUNT
	DEVICES MOUNTED ABOVE COUNTER
	PAC-POLE - SEE SPEC FOR DEVICES
	CLOCK
	JUNCTION BOX - WALL MOUNT / CEILING MOUNT
	ELECTRIC MOTOR
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	MANUAL MOTOR STARTER
	COMBINATION MOTOR STARTER
	FAN SWITCH, MOTOR SPEED CONTROLLER, MOTORIZED DOOR CONTROLLER
	DOOR ENTRY SIGNAL DEVICE
	DOOR ENTRY PUSH BUTTON
	INTERCOM OUTLET
	CARD READER
	PASSIVE INFRARED MOTION DETECTOR - WALL MOUNT / CEILING MOUNT
	DOOR ENTRY KEYPAD
	PUSH BUTTON DEVICE - SEE SPECIFICATIONS
	DOOR PROXIMITY SWITCH
SC	SEPARATE CIRCUIT
E	EXISTING ELECTRICAL EQUIPMENT TO REMAIN
A-2	NUMBER INDICATES CIRCUIT NUMBER (i.e. #2 AT PANEL 'A')
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
(1)	NOTE LEGEND SYMBOL
	DRAWING REVISION SYMBOL
	OWNER EQUIPMENT SYMBOL



- NOTES:**
- CONCRETE AND REBAR REQUIREMENTS ARE:
FC 28 DAY = 25 MPA
REINFORCING TO CSA G30.18
GRADE 400 FOR VERTICAL BARS AND TIES
 - VERTICAL REINFORCING TO BE FULL LENGTH OF PILE.
 - PILES TO BE INSTALLED IN UNDISTURBED MATERIAL. IF SAND, WATER, SLOUGHING OR FILL CONDITIONS ARE ENCOUNTERED, CONTACT CONSULTANT PRIOR TO PROCEEDING.
 - USE SONOTUBE FORMS ABOVE GRADE AND 300mm BELOW GRADE.
 - GRIND OR GROUT TOP OF PILE TO GIVE A FLAT, LEVEL FINISHED SURFACE.
 - COLOR TO BE SELECTED DURING SHOP DRAWING STAGE. PEDESTAL SHALL BE CLEANED, PHOSPHATED, PRIMED AND POLYESTER POWDER COATED.



- NOTES:**
- CONCRETE AND REBAR REQUIREMENTS ARE:
FC 28 DAY = 25 MPA
REINFORCING TO CSA G30.18
GRADE 400 FOR VERTICAL BARS AND TIES
 - CONFIRM ANCHOR BOLT SIZE AND BOLT CIRCLE DIAMETER WITH POLE MANUFACTURER.
 - VERTICAL REINFORCING TO BE FULL LENGTH OF PILE.
 - PILES TO BE INSTALLED IN UNDISTURBED MATERIAL. IF SAND, WATER, SLOUGHING OR FILL CONDITIONS ARE ENCOUNTERED, CONTACT CONSULTANT PRIOR TO PROCEEDING.
 - USE SONOTUBE FORMS ABOVE GRADE AND 300mm BELOW GRADE.
 - GRIND OR GROUT TOP OF PILE TO GIVE A FLAT, LEVEL FINISHED SURFACE.

POLE BASE DIMENSION CHART

POLE HEIGHT	BOLT CIRCLE DIA.	PILE SIZE BELOW GRADE		PILE REINFORCEMENTS	
		DIAMETER	LENGTH	VERTICAL	TIES
2440-3660mm	229mm	457mm	3658mm	4 x 15M	406mm ON CENTER
3660-7315mm	229mm	457mm	3658mm	4 x 15M	406mm ON CENTER
7620mm	254mm	508mm	3658mm	4 x 15M	406mm ON CENTER
7620-9144mm	279mm	508mm	4572mm	5 x 15M	406mm ON CENTER
10668-12192mm	356mm	610mm	4572mm	5 x 20M	406mm ON CENTER
12192-15240mm	457mm	762mm	6096mm	7 x 20M	406mm ON CENTER

2 | CAR RECEPTACLE PEDESTAL DETAIL
E-1 | NTS

3 | POLE BASE AND STANDARD DETAIL
E-1 | NTS

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200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4R 1H5
PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com
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STRUCTURAL ENGINEERS
BROWNLEE BEATON KREKUT
3811 PACIOJA STREET • REGINA • SK • S4S 0A9
TEL: 306.585.8833 • FAX: 306.585.8834

HDA ENGINEERING LTD
Mechanical Engineering Consultants
1560 Angus Street Phone: (306) 525-9815
Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com

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Consulting Electrical Engineers
Regina, Saskatchewan • 24038

ISSUE	DESCRIPTION	DATE
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ENGINEER-IN-TRAINING
Z.S. PHILSON
MEMBER 74380
24 07 18
YR. MN. DAY
24038
SASKATCHEWAN

PROFESSIONAL ENGINEER
B.C. NOVAK
MEMBER 6438
24 07 18
YR. MN. DAY
24038
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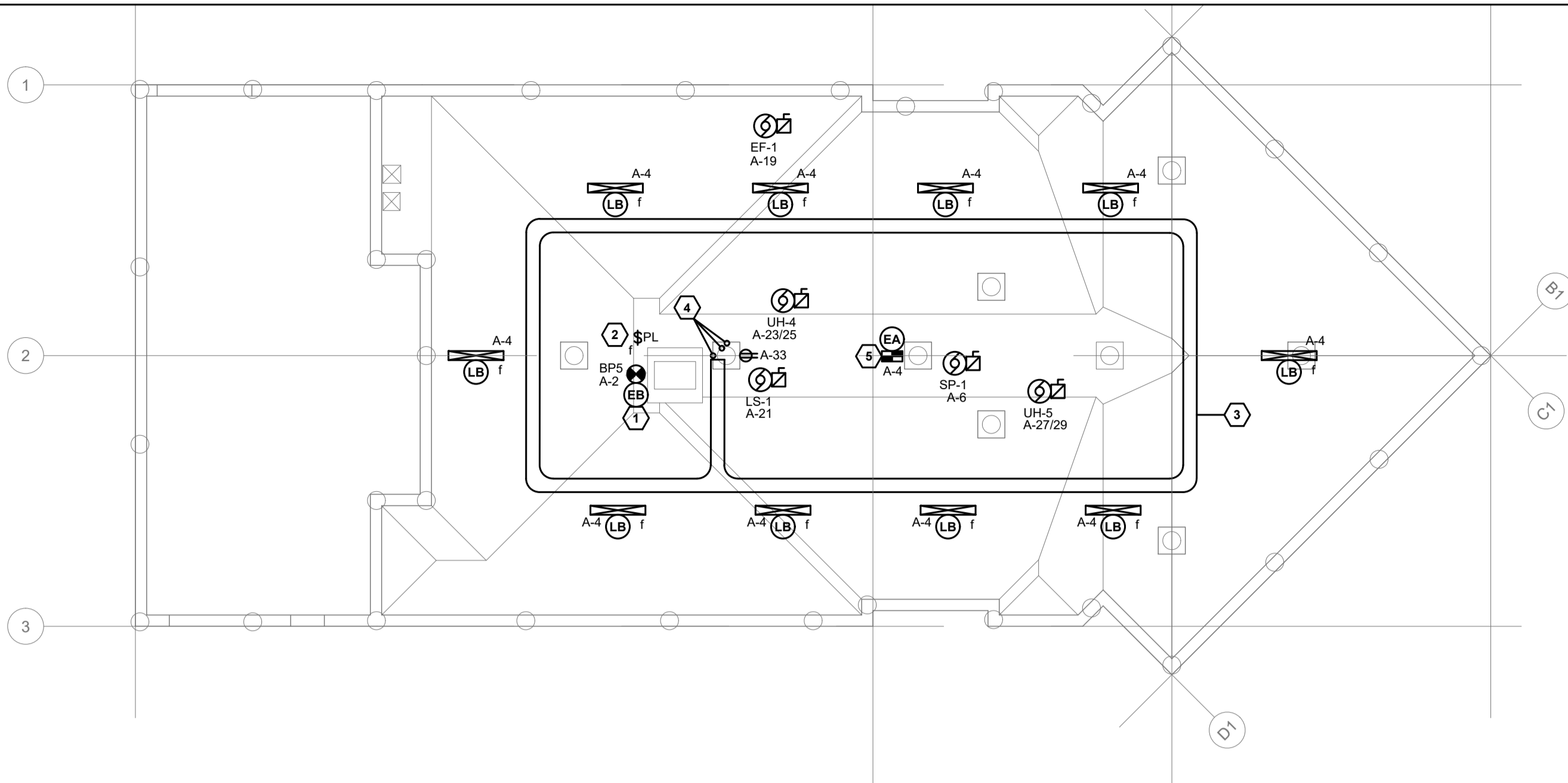
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CLIENT INFORMATION:
OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
SITE PLAN AND SYMBOL LEGEND

DRAWN BY: ZP/LP CHECKED BY: BN APPROVED:
SCALE: AS SHOWN DATE: 18 JUL 24 DATE:
FILE NO: 22-117 DRAWING NO: E-1
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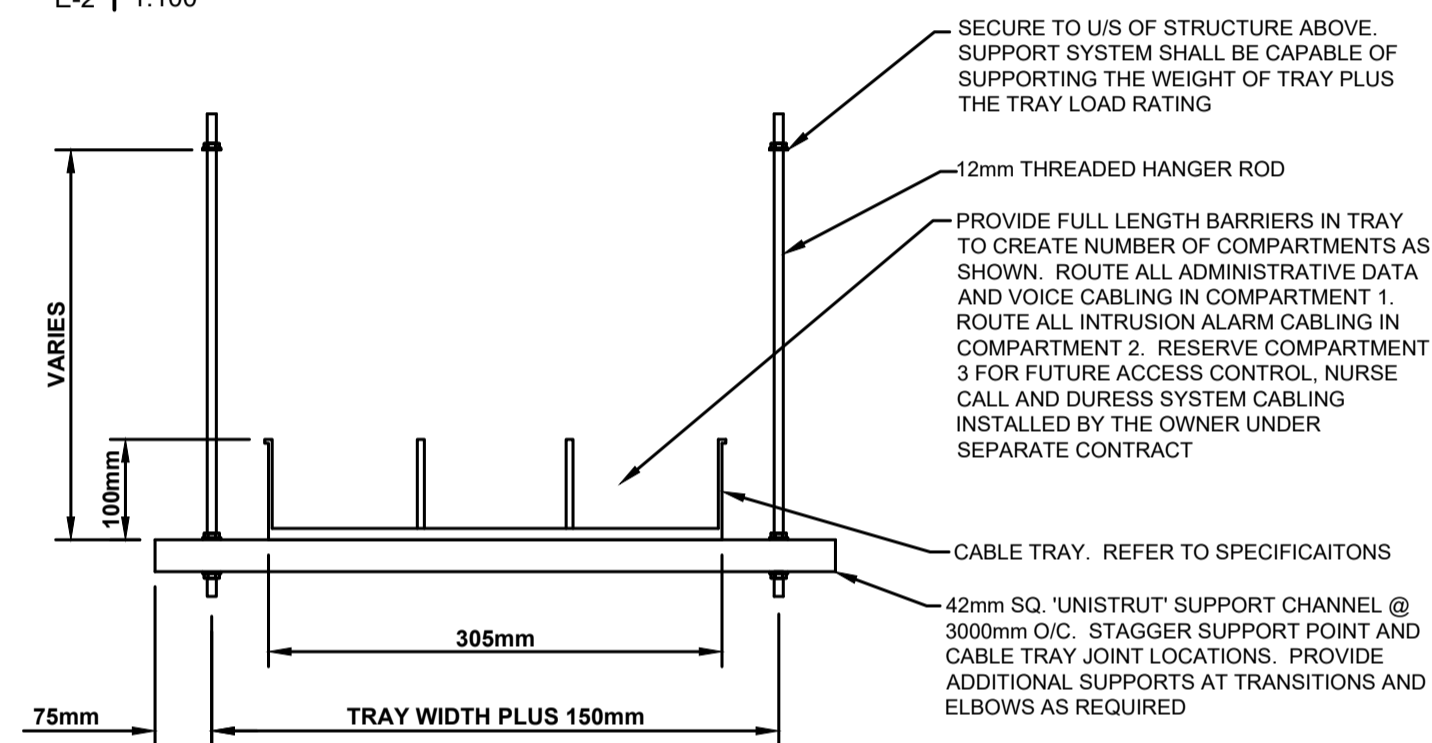


CRAWLSPACE BUILDING SYSTEMS AND LIGHTING PLANS NOTE LEGEND:

1. INSTALL EXIT SIGN IN CRAWLSPACE ADJACENT ACCESS HATCH FROM MAIN FLOOR. CONFIRM LOCATION ON SITE.
2. INSTALL LIGHT SWITCH IN CRAWLSPACE ADJACENT ACCESS HATCH FROM MAIN FLOOR. CONFIRM LOCATION ON SITE. SWITCH SHALL REMAIN ILLUMINATED WHEN LIGHTS CONTROLLED BY SWITCH ARE OFF.
3. PROVIDE CABLE TRAY TO EXTENTS SHOWN ON THE PLANS. SUSPEND BELOW ALL DUCTWORK AND PLUMBING. REFER TO CABLE TRAY DETAIL 2/E-2.
4. PROVIDE CONDUIT STUBS THROUGH FLOOR TO ADMINISTRATIVE DATA AND VOICE EQUIPMENT RACK IN OFFICE 106 AND TO ACCESS CONTROL AND INTRUSION ALARM CONTROL PANELS IN JANITORS ROOM 117. COORDINATE CABLE TRAY END POINT AND CONDUIT STUB ROUTES WITH CRAWLSPACE ACCESS HATCH LOCATION TO AVOID CONFLICT WITH PASSAGE THROUGH HATCH. SEAL CONDUIT AFTER CABLING INSTALLATION IS COMPLETE.
5. BATTERY PACK 'BP5' SHALL BE SIZED AT 36W.

1 | CRAWLSPACE BUILDING SYSTEMS AND LIGHTING PLAN

E-2 | 1:100



CABLE TRAY DETAIL NOTES:

COORDINATE CABLE TRAY INSTALLATION AND ROUTING WITH ALL DUCTWORK AND PLUMBING LINES. ADJUST SUSPENSION HEIGHT AS REQUIRED TO MAINTAIN ADEQUATE SERVICING CLEARANCE FOR ALL EQUIPMENT.

ALL HORIZONTAL ELBOWS SHALL BE MIN. 300mm RADIUS.

PROVIDE ALL NECESSARY FITTINGS AND HARDWARE TO GIVE A COMPLETE AND FUNCTIONAL SYSTEM.

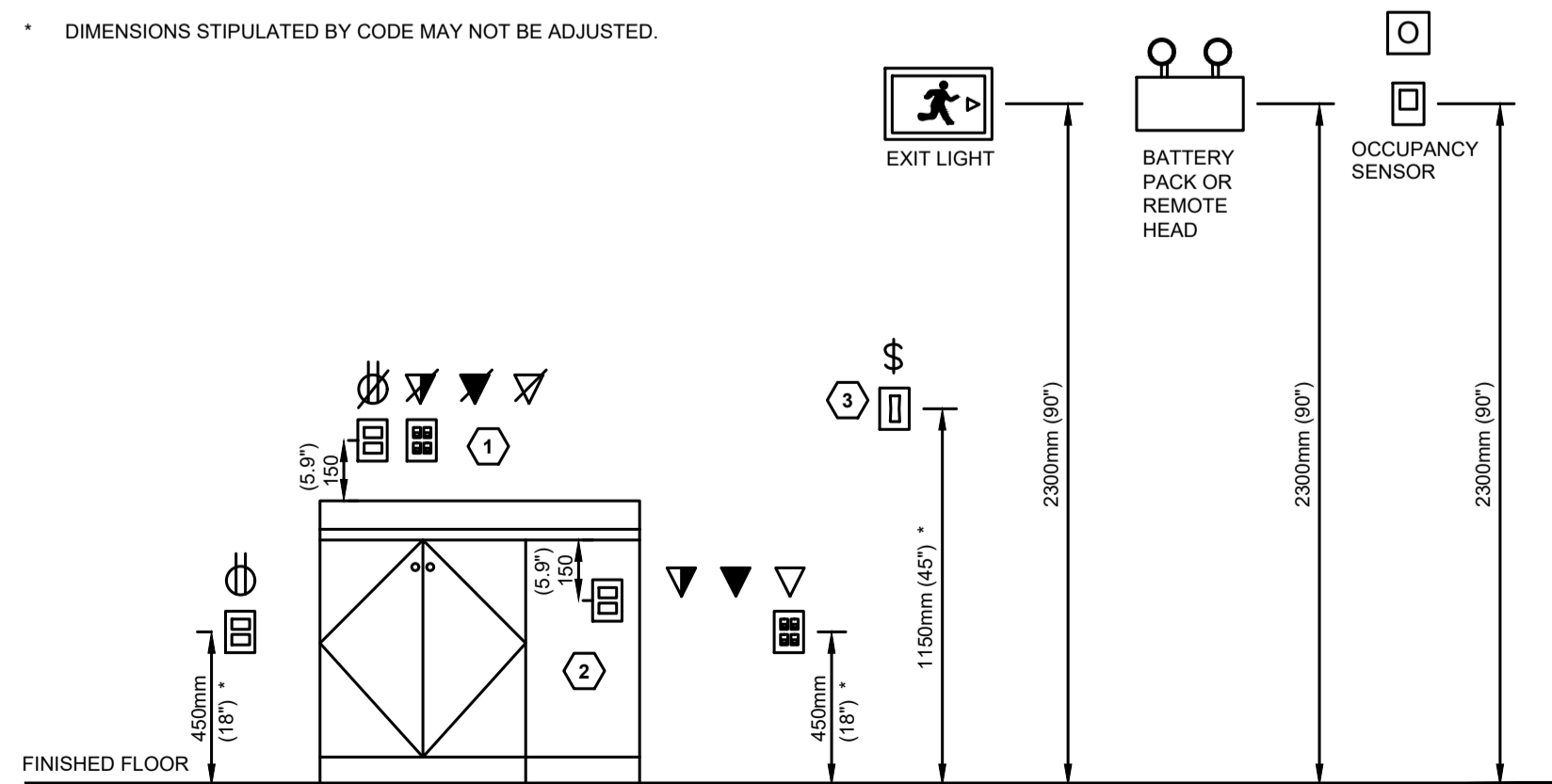
SECURE ALL CONDUIT ROUTED TO CABLE TRAY TO SIDE OF CABLE TRAY USING COOPER CROUSE HINDS LCC SERIES CABLE TRAY CONDUIT CLAMP.

2 | CABLE TRAY DETAIL

E-2 | NTS

COMMUNICATION/RECEPTACLE/EMERGENCY LIGHTING MOUNTING ELEVATION DETAIL NOTES:

1. MOUNT 150mm ABOVE TOP OF BACKSPASH. IF THERE IS NO BACKSPASH MOUNT 150mm ABOVE TOP OF COUNTER.
 2. RECEPTACLE MOUNTED ON GABLE END OF PENINSULA OR ISLAND.
 3. MOUNTING HEIGHT APPLIES TO ALL OPERABLE SWITCH TYPES INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSOR SWITCH, KEYED SWITCH, LOW VOLTAGE SWITCH, THREE-WAY SWITCH, FOUR-WAY SWITCH, VACANCY SENSOR SWITCH, PILOT LIGHT SWITCH, DIMMER SWITCH, TIMER SWITCH, AND MOTOR SPEED CONTROLLER.
- * DIMENSIONS STIPULATED BY CODE MAY NOT BE ADJUSTED.



3 | COMMUNICATION/RECEPTACLE/EMERGENCY LIGHTING MOUNTING ELEVATION DETAIL

E-2 | NTS

SITE LUMINAIRE SCHEDULE												
TYPE	DESCRIPTION	DIMENSIONS	MOUNTING	EPA RATING	SOURCE	LUMEN MAINTENANCE	OPTICS	CONTROL	FINISH	VOLT	APPROVED MANUFACTURERS	NOTES
SA	POLE MOUNT LED AREA FIXTURE C/W HOUSE SIDE SHIELD	L: 665mm W: 357mm D: 189mm	POLE MOUNT	0.04m2	LED, 45 W 5,395 LMN. ** 70% CRI 4000 &&DK 700 mA (DRIVE)	25 °C 89% LDF * 50,000 HRS.	TYPE 4 MEDIUM THROW B1-U0-G3 BUG RATING	INTEGRAL PHOTOCELL	BRONZE POLYESTER POWDER COAT	120V	LITHONIA DSX0 SERIES	1
SB	POLE MOUNT LED AREA FIXTURE	L: 665mm W: 357mm D: 189mm	POLE MOUNT	0.04m2	LED, 45 W 6,109 LMN. ** 70% CRI 4000 &&DK 700 mA (DRIVE)	25 °C 89% LDF * 50,000 HRS.	TYPE 2 MEDIUM THROW B1-U0-G2 BUG RATING	INTEGRAL PHOTOCELL	BRONZE POLYESTER POWDER COAT	120V	LITHONIA DSX0 SERIES	1

* (LDF) LIGHTING MANUFACTURERS PUBLISHED LUMEN DEPRECIATION FACTOR BASED ON TESTED AMBIENT TEMPERATURE.

** LUMENS INDICATED ARE DELIVERED LUMENS.

SITE LUMINAIRE SCHEDULE NOTES:

1. REFER TO POLE SCHEDULE.

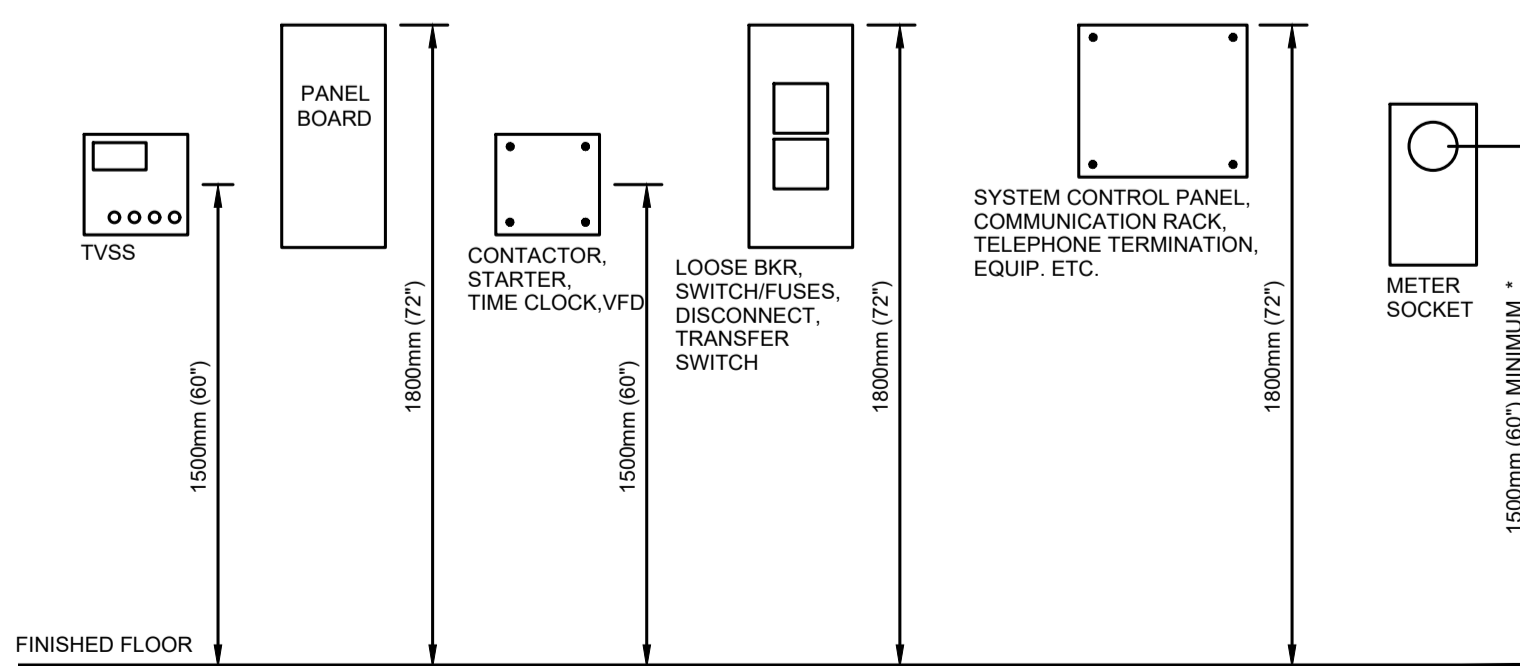
POLE SCHEDULE											
POLE	TYPE	# OF HEADS	LUMINAIRE MTG. HEIGHT ON POLE	DESCRIPTION	POLE DIMENSIONS	CONSTRUCTION	EPA RATING / WIND RATING	MOUNTING	FINISH	APPROVED MANUFACTURERS	NOTES
P1	SA	1	6.1m	ROUND TAPERED	H: 6.1m W: 125mm	STEEL	0.05m2 /160 KPH	1 x 4" ARM AT 90°	MATCH LUMINAIRE	CECE POLES NOVA POLES	1
P2	SB	1	6.1m	ROUND TAPERED	H: 6.1m W: 125mm	STEEL	0.05m2 /160 KPH	1 x 4" ARM AT 90°	MATCH LUMINAIRE	CECE POLES NOVA POLES	2

POLE SCHEDULE NOTES:

1. REFER TO POLE BASE AND STANDARD DETAIL, 3/E-1.
2. PROVIDE POLE ARM ORIENTATION AS SHOWN ON SITE PLAN, 1/E-1.

DISTRIBUTION EQUIPMENT/SYSTEM EQUIPMENT ELEVATION DETAIL NOTES:

* DIMENSIONS STIPULATED BY CODE MAY NOT BE ADJUSTED.

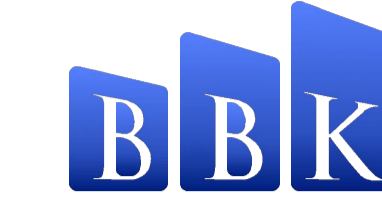


4 | DISTRIBUTION EQUIPMENT/SYSTEM EQUIPMENT ELEVATION DETAIL

E-2 | NTS



200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4S 1H6
PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com
KREATE ARCHITECTURE AND DESIGN LTD.



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STRUCTURAL ENGINEERS
BROWNLEE BEATON KRETE
3611 PACIOJA STREET • REGINA • SK • S4S 0A9
TEL: (306) 585-8833 • FAX: (306) 585-8834
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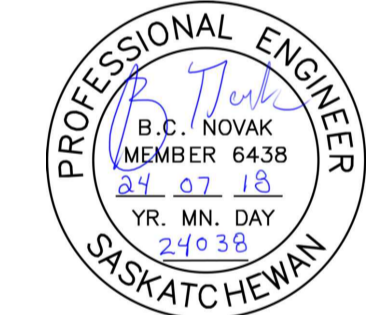
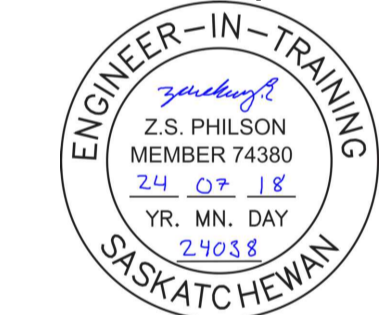
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Mechanical Engineering Consultants
1560 Angus Street Phone: (306) 525-9815
Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com
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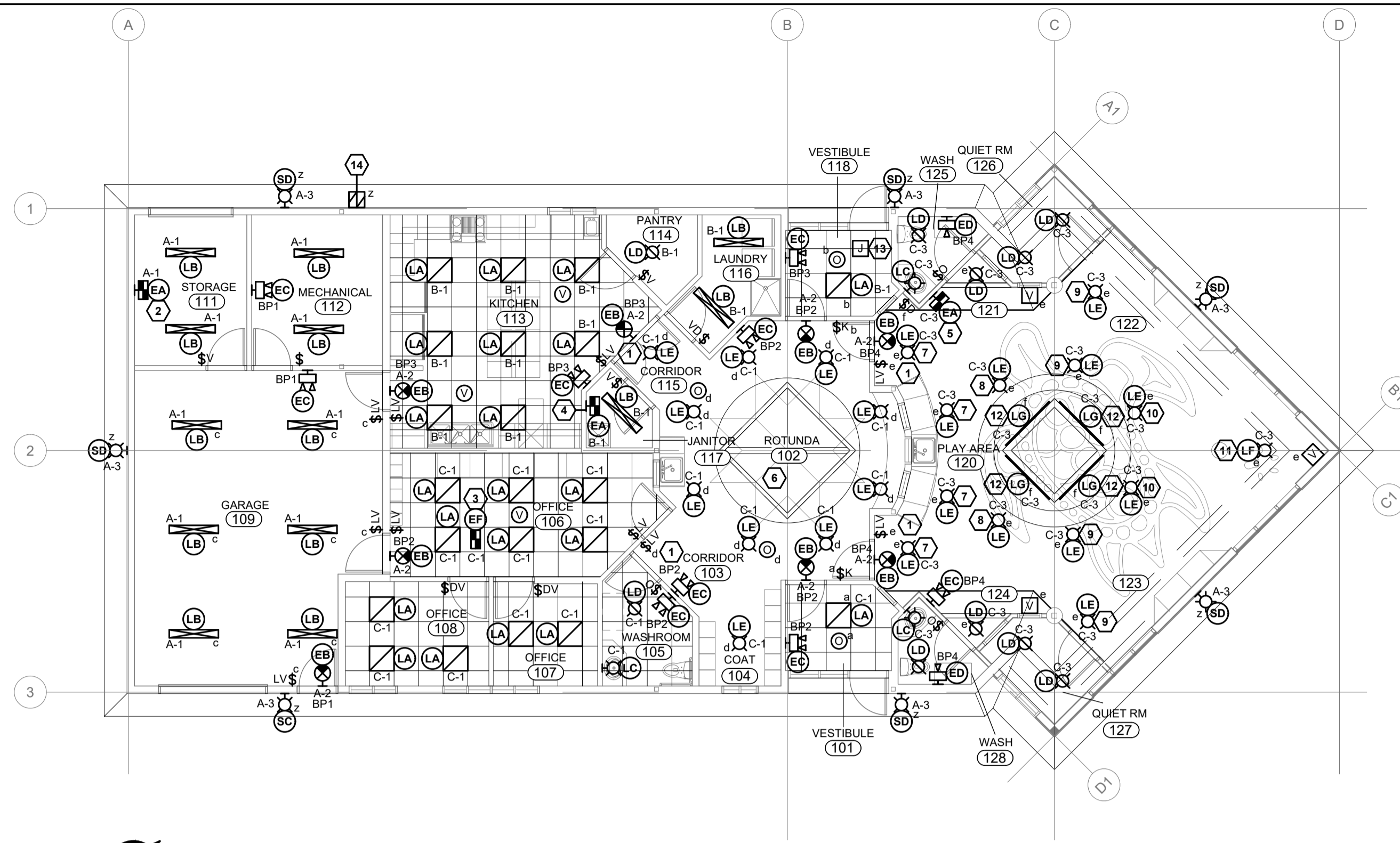
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BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
CRAWLSPACE BUILDING SYSTEMS
AND LIGHTING PLANS

DRAWN BY: ZP/LP CHECKED BY: BN APPROVED:
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1 LIGHTING PLAN
E-3 1:100

LIGHTING PLAN NOTE LEGEND:

- 1 PROVIDE LOW VOLTAGE SWITCH CW ON/OFF AND RAISE/LOWER FUNCTIONS. SWITCH TO WORK WITH CEILING MOUNTED SENSORS IN SAME ROOM.
- 2 BATTERY PACK 'BP1' SHALL BE SIZED AT 36W.
- 3 BATTERY PACK 'BP2' SHALL BE SIZED AT 72W.
- 4 BATTERY PACK 'BP3' SHALL BE SIZED AT 36W.
- 5 BATTERY PACK 'BP4' SHALL BE SIZED AT 36W.
- 6 MOUNT FIXTURES IN THIS AREA AT 3800mm A.F.F. TO BOTTOM OF FIXTURE.
- 7 MOUNT FIXTURE AT 4500mm A.F.F. TO BOTTOM OF FIXTURE.
- 8 MOUNT FIXTURE AT 4800mm A.F.F. TO BOTTOM OF FIXTURE.
- 9 MOUNT FIXTURE AT 5000mm A.F.F. TO BOTTOM OF FIXTURE.
- 10 MOUNT FIXTURE AT 5200mm A.F.F. TO BOTTOM OF FIXTURE.
- 11 MOUNT FIXTURE AT 5600mm A.F.F. TO BOTTOM OF FIXTURE.
- 12 MOUNT TAPE LIGHT ON BOTTOM EDGE OF INNER BULKHEAD. LENS TO BE FACING UP INTO COVE. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 13 MOUNT DRIVER FOR TAPE LIGHT FIXTURE TYPE 'LG' ABOVE ACCESSIBLE CEILING OF VESTIBULE.
- 14 PROVIDE EXTERIOR WALL MOUNT PHOTOCELL FOR EXTERIOR FIXTURES.

LIGHTING PLAN GENERAL NOTES:

SINGLE, DOUBLE REMOTE EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE BATTERY UNIT WITH A CORRESPONDING DESIGNATION (IE. BP1, BP2, ETC.)

LUMINAIRE SCHEDULE											
TYPE	DESCRIPTION	DIMENSIONS	MOUNTING	SOURCE	LUMEN MAINTENANCE	OPTICS	CONTROL	FINISH	VOLT	APPROVED MANUFACTURERS	NOTES
LA	T-BAR RECESSED LED FLAT PANEL	L: 609mm W: 609mm D: 32mm	T-BAR RECESSED	LED, 29 W 3400 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	SATIN WHITE LENS	10-100% DIMMING 0-10V DIMMING DRIVER	WHITE	120V	LITHONIA EPANL SERIES	
LB	LED STRIPLIGHT	L: 1220mm W: 55mm D: 54mm	CHAIN SUSPEND	LED, 28W 3665 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	FROSTED DIFFUSE LENS	10-100% DIMMING 0-10V DIMMING DRIVER	WHITE	120V	LITHONIA ZLIN SERIES METALUX SNLED SERIES	1
LC	LINEAR VANITY	L: 617mm H: 114mm D: 120mm	WALL SURFACE	LED, 25W 2490 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	FULL FROST LENS	--	WHITE	120V	METALUX BCLED SERIES	2
LD	RECESSED LED FIXTURE	159mm DIA. 163mm H	CEILING RECESSED	LED, 10.4W 950 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	55° CUTOFF SEMI-SPECULAR	--	WHITE TRIM	120V	LITHONIA LDN6 SERIES	
LE	PENDANT SUSPENDED LED CYLINDER	206mm DIA. 267mm H	PENDANT MOUNT	LED, 29W 3510 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	55° CUTOFF SEMI-SPECULAR	--	WHITE TRIM	120V	LITHONIA LDN6CYL SERIES	4
LF	PENDANT SUSPENDED LED CYLINDER	206mm DIA. 267mm H	PENDANT MOUNT	LED, 35W 3029 LMN. ** 80% CRI 4000 °K	25 °C 70% LDF * 60,000 HRS.	55° CUTOFF SEMI-SPECULAR	--	WHITE TRIM	120V	LITHONIA LDN6CYL SERIES	4
LG	LED TAPE LIGHT IN CHANNEL	L: 1550mm W: 19mm D: 19mm	BULKHEAD MOUNT 45 DEGREE CHANNEL	LED, 3.3W/METER 350 LMN./METER 80% CRI 4000 °K	25 °C 70% LDF * 50,000 HRS.	FROSTED LENS	10-100% DIMMING 0-10V DIMMING DRIVER	WHITE	120V	ACCLAIM FLEX EXO INTERIOR C/W FLEX 45 DEGREE CHANNEL	5
SC	WALL MOUNT EXTERIOR FIXTURE	W: 229mm H: 203mm D: 140mm	WALL MOUNT	LED, 7W 761 LMN. ** 80% CRI 4000 °K	25 °C 95% LDF * 50,000 HRS.	VISUAL COMFORT FORWARD THROW	--	DARK BRONZE	120V	LITHONIA WDGE1 LED SERIES	3
SD	WALL MOUNT EXTERIOR FIXTURE	W: 229mm H: 203mm D: 140mm	WALL MOUNT	LED, 7W 761 LMN. ** 80% CRI 4000 °K	25 °C 95% LDF * 50,000 HRS.	VISUAL COMFORT WIDE THROW	--	DARK BRONZE	120V	LITHONIA WDGE1 LED SERIES	3

* (LDF) LIGHTING MANUFACTURERS PUBLISHED LUMEN DEPRECIATION FACTOR BASED ON TESTED AMBIENT TEMPERATURE.

** LUMENS INDICATED ARE DELIVERED LUMENS.

LUMINAIRE SCHEDULE NOTES:

1. COORDINATE FINAL LOCATIONS OF FIXTURES WITH MECHANICAL DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS.
2. MOUNT FIXTURE AT 1900mm A.F.F. COORDINATE EXACT LOCATION AND HEIGHT WITH MIRROR IN WASHROOMS. CENTRE FIXTURE ABOVE MIRROR.
3. MOUNT AT 2700mm TO CENTRE OF FIXTURE.
4. PROVIDE FIXTURE WITH STEM AND 45 DEGREE SWIVEL.
5. PROVIDE FIXTURE WITH DIMMING DRIVER.

UNIT EQUIPMENT & EXIT LUMINAIRE SCHEDULE												
TYPE	DESCRIPTION	DIMENSIONS	MOUNTING	SOURCE		RUN TIME (MIN.)	RATINGS	OPTIONS	FINISH	VOLT	APPROVED MANUFACTURERS	NOTES
				TYPE	WATTS							
EA	EMERGENCY BATTERY PACK C/W SELF DIAGNOSTICS	H: 267mm W: 330mm D: 93mm	WALL MOUNT	LED	MR16	2 x 4W 30		SELF DIAGNOSTICS	WHITE	120V AC 12V DC	AIMLITE EBST SERIES BEGHELLI NV SERIES EMERGH-LITE ESL SERIES READY-LITE LDX SERIES	
EB	UNIVERSAL SINGLE OR DOUBLE FACE PICTOGRAM EXIT	H: 229mm W: 305mm D: 35mm	SURFACE MOUNT	LED		2W			WHITE	120V AC 12V DC	AIMLITE RPALW SERIES BEGHELLI ORRM SERIES EMERGH-LITE EA SERIES READY-LITE RA SERIES	
EC	DOUBLE REMOTE EMERGENCY HEAD	H: 142mm W: 211mm D: 74mm	SURFACE MOUNT	LED	MR16	2 x 4W			WHITE	12V DC	AIMLITE RMSM2 SERIES BEGHELLI SR2 SERIES EMERGH-LITE EP9D SERIES READY-LITE RM SERIES	
ED	SINGLE REMOTE EMERGENCY HEAD	H: 142mm W: 211mm D: 56mm	SURFACE MOUNT	LED	MR16	1 x 6W			WHITE	12V DC	AIMLITE RMMB1 SERIES BEGHELLI BTMR1 SERIES EMERGH-LITE EF150 SERIES READY-LITE RL150 SERIES	
EF	EMERGENCY BATTERY PACK C/W SELF DIAGNOSTICS	H: 267mm W: 330mm D: 93mm	T-BAR RECESSED	LED	MR16	2 x 4W 30		SELF DIAGNOSTICS	WHITE	120V AC 12V DC	AIMLITE EBST SERIES BEGHELLI NV SERIES EMERGH-LITE ESL SERIES READY-LITE LDX SERIES	

UNIT EQUIPMENT & EXIT LUMINAIRE SCHEDULE NOTES:

1. CIRCUIT TO BUILDING EXIT LIGHT CIRCUIT AND TO D.C. BATTERY PACK INDICATED ON PLANS.
2. CIRCUIT TO A.C. CIRCUIT INDICATED ON PLANS.
3. CONNECT TO D.C. BATTERY PACK INDICATED ON PLANS.

KREATE
200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4R 1H5
PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com
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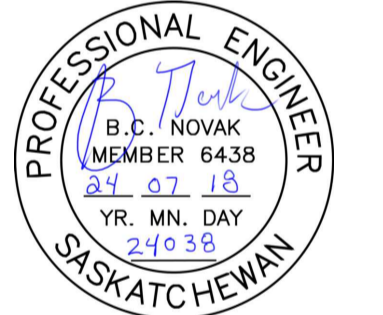
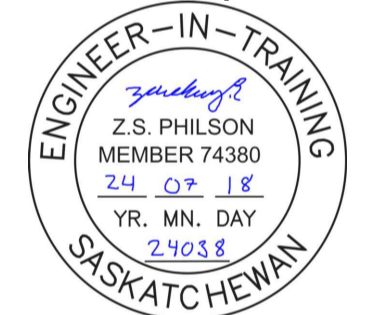
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STRUCTURAL ENGINEERS
BROWNLEE BEATON KRETE
3811 PACIFIC STREET • REGINA • SK • S4S 0A9
TEL: (306) 585-8855 • FAX: (306) 585-8856

HDA ENGINEERING LTD
Mechanical Engineering Consultants
1580 Angus Street Phone: (306) 525-9815
Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com

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Regina, Saskatchewan • 24038

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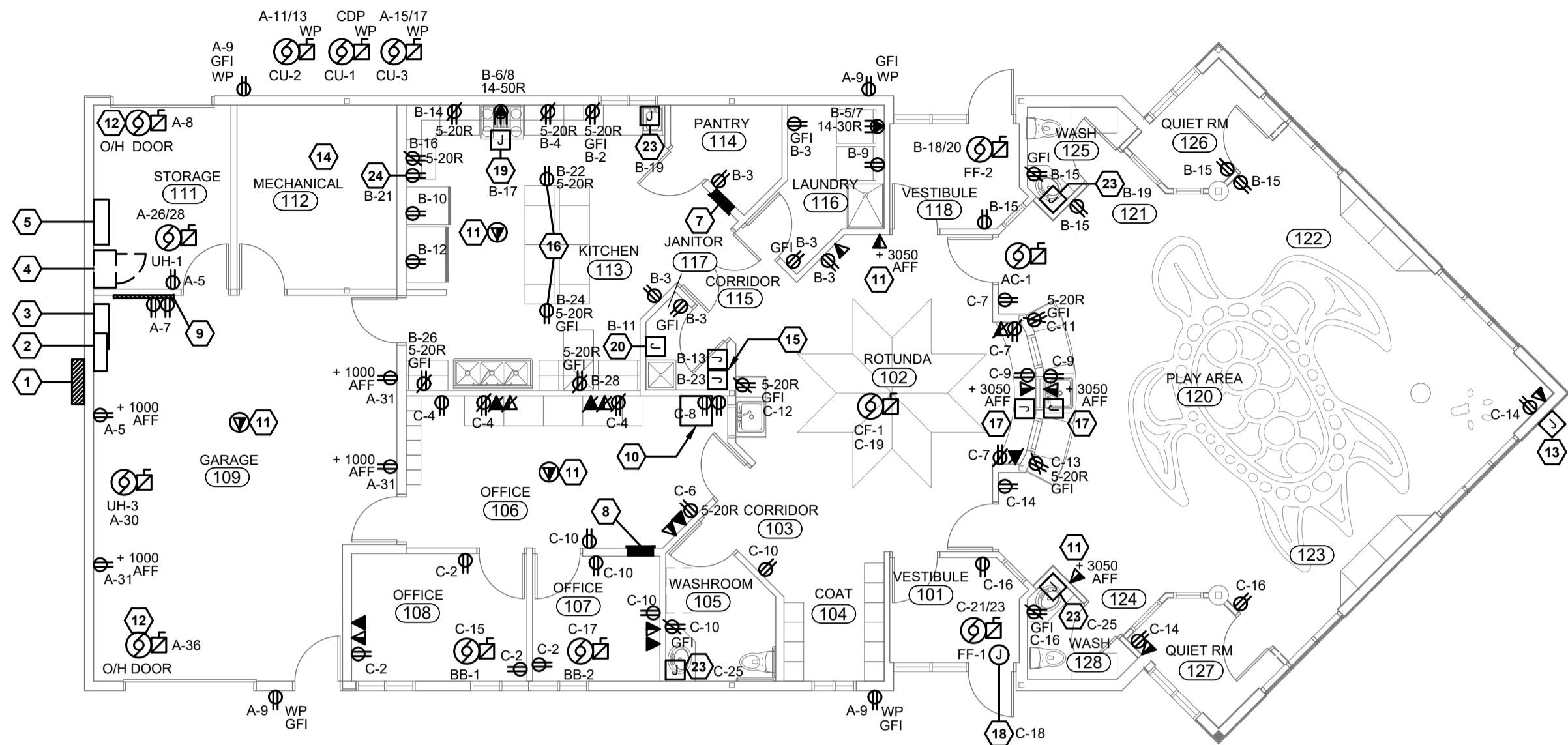
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S0G 0C0

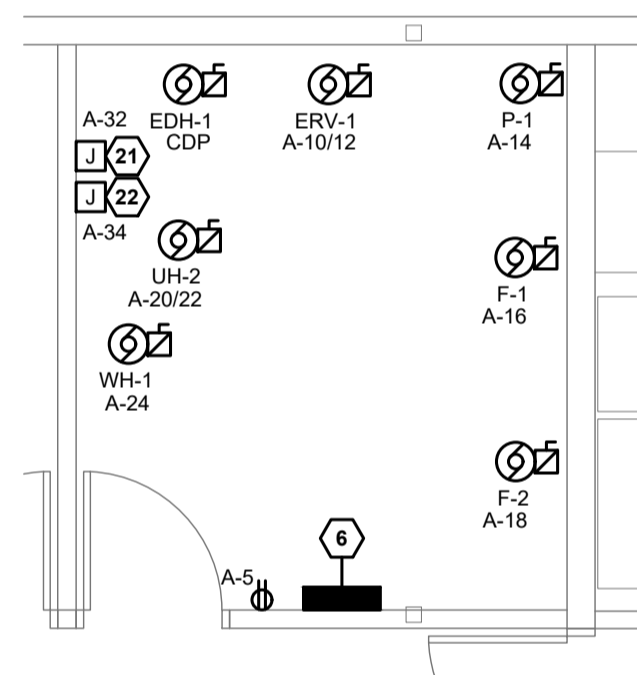
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AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
LIGHTING PLAN

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1 | BUILDING SYSTEMS PLAN
E-4 | 1:100



2 | LARGE SCALE MECHANICAL ROOM BUILDING SYSTEM PLAN
E-4 | 1:50

BUILDING SYSTEMS PLAN NOTE LEGEND:

- 1 WEATHER PROOF SERVICE ENTRANCE SPLITTER. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6.
- 2 MAIN SERVICE DISCONNECT. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6.
- 3 MAIN SERVICE C/T COMPARTMENT. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6.
- 4 FUTURE EMERGENCY POWER SYSTEM AUTOMATIC TRANSFER SWITCH LOCATION. RUN FEED FROM C/T COMPARTMENT, THROUGH FUTURE TRANSFER LOCATION TO MAIN SERVICE CDP. ALLOW 1220MM SPACE FOR FUTURE TRANSFER SWITCH. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6.
- 5 MAIN SERVICE CDP. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6.
- 6 PANEL 'A'. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6 AND PANEL SCHEDULES.
- 7 PANEL 'B'. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6 AND PANEL SCHEDULES.
- 8 PANEL 'C'. REFER TO MAIN SERVICE SCHEMATIC, DETAIL 1/E-6 AND PANEL SCHEDULES.
- 9 SASKTEL DEMARCATION PLYWOOD. REFER TO ADMINISTRATIVE DATA AND VOICE CABLING SYSTEM SCHEMATIC DETAIL 2/E-6.
- 10 ADMINISTRATIVE DATA AND VOICE WALL MOUNT EQUIPMENT RACK. REFER TO ADMINISTRATIVE DATA AND VOICE CABLING SYSTEM SCHEMATIC DETAIL 2/E-6.
- 11 PROVIDE AND INSTALL CEILING/WALL MOUNT TERMINATED DATA OUTLET FOR OWNER SUPPLIED/CONTRACTOR INSTALLED WIFI ACCESS POINT.
- 12 PROVIDE 120V, 1Ø CONNECTION TO OVERHEAD DOOR OPERATOR. CONFIRM EXACT POWER REQUIREMENTS AND LOCATION WITH OVERHEAD DOOR SUPPLIER PRIOR TO COMMENCING WORK. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS REGARDING CONNECTION TO EQUIPMENT SUPPLIED BY OTHER DIVISIONS. MAKE ALL POWER AND CONTROL CONNECTIONS FOR OVERHEAD DOOR AND ASSOCIATED EQUIPMENT.
- 13 PROVIDE RECESS, WALL MOUNT WEATHER PROOF JUNCTION BOX BELOW SOFFIT FOR FUTURE SATELLITE DISH. PROVIDE 27mm FROM OUTLET BOX TO EDGE OF CABLE TRAY IN CRAWLSPACE.
- 14 REFER TO MECHANICAL ROOM 112 LARGE SCALE PLAN DETAIL 2/E-4 FOR INSTALLATION IN THIS ROOM.
- 15 PROVIDE POWER CONNECTIONS FOR INTRUSION ALARM AND ACCESS CONTROL SYSTEM PANELS. REFER TO INTRUSION ALARM SYSTEM AND ACCESS CONTROL SYSTEM SCHEMATICS ON DRAWING E-5.
- 16 MOUNT DEVICES IN VERTICAL FACE OF ISLAND MILLWORK. FEED FROM CRAWLSPACE BELOW. REFER TO ARCHITECTURAL MILLWORK DETAILS FOR MILLWORK CONSTRUCTION, DEVICE LOCATION AND FEEDER ROUTING.
- 17 PROVIDE AND INSTALL DEVICES AT MONITOR LOCATION ABOVE WINDOW IN ROOMS 102 AND 120. INSTALL IN RECESS MOUNT MULTI SERVICE WALL BOX. CONFIRM LOCATION ON SITE WITH ARCHITECT AND OWNER PRIOR TO COMMENCING ROUGH-IN. PROVIDE 35MM DIA CONDUIT FROM WALL BOX TO CABLE TRAY IN CRAWLSPACE FOR FUTURE OWNER INSTALLED CABLING.
- 18 PROVIDE POWER AND CONTROL CONNECTIONS FOR POWER DOOR OPERATOR. REFER TO ARCHITECTURAL DETAILS FOR PUSH/BUTTON BUMP BAR LOCATIONS. REFER TO DOOR 101.1 ROUGH-IN DETAIL 1/E-7 FOR ADDITIONAL INFORMATION REGARDING INTERCONNECTION WITH ACCESS CONTROL SYSTEM.
- 19 PROVIDE 120V CONNECTION TO RANGE HOOD. INSTALL MECHANICAL CONTRACTOR SUPPLIED UNIT AND SUPPLY AND INSTALL REQUIRED LAMPS. CONFIRM LAMP STYLE AND NUMBER WITH MECHANICAL CONTRACTOR.
- 20 PROVIDE 120V CONNECTION TO SMOKE DAMPER C/W INTEGRAL SMOKE DETECTOR.
- 21 PROVIDE 120V CONNECTION FOR SUMP PUMP ALARM PANEL. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 22 PROVIDE 120V CONNECTION FOR LIFT STATION CONTROL PANEL. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 23 PROVIDE 120V CONNECTION TO POWERED FAUCET.
- 24 LOCATE MICROWAVE RECEPTACLE WITHIN MILLWORK. POSITION RECEPTACLE IN LOWER RIGHT CORNER. REFER TO ARCHITECTURAL MILLWORK DETAILS AND MILLWORK SHOP DRAWINGS.

MECHANICAL EQUIPMENT SCHEDULE												
NO.	DESCRIPTION	LOCATION	KW	Ø	V	A	FEED	CON	BREAKER & CIRCUIT	DISC	STARTER	REMARKS
F-1	FURNACE	MECHANICAL ROOM	-	1	120	12.8	2#12	21mm	20A-1P	BY ELEC	BY MECH	-
F-2	FURNACE	MECHANICAL ROOM	-	1	120	7.7	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
CU-1	CONDENSING UNIT	EXTERIOR MECHANICAL ROOM	-	1	240	MCA 35.6	2#8	21mm	60A-2P	WP BY ELEC	BY MECH	-
CU-2	CONDENSING UNIT	EXTERIOR MECHANICAL ROOM	-	1	240	MCA 20.2	2#10	21mm	35A-2P	WP BY ELEC	BY MECH	-
CU-3	CONDENSING UNIT	EXTERIOR MECHANICAL ROOM	-	1	240	MCA 13	2#12	21mm	20A-2P	WP BY ELEC	BY MECH	-
EF-1	EXHAUST FAN	CRAWLSPACE	74W	1	120	-	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
UH-1	UNIT HEATER	STORAGE	3	1	240	12.5	2#12	21mm	20A-2P	BY ELEC	BY MECH	-
UH-2	UNIT HEATER	MECHANICAL ROOM	2	1	240	8.3	2#12	21mm	15A-2P	BY ELEC	BY MECH	-
UH-3	UNIT HEATER	GARAGE	50W	1	120	2	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
UH-4	UNIT HEATER	CRAWLSPACE	3	1	240	12.5	2#12	21mm	20A-2P	BY ELEC	BY MECH	-
UH-5	UNIT HEATER	CRAWLSPACE	3	1	240	12.5	2#12	21mm	20A-2P	BY ELEC	BY MECH	-
FF-1	FORCE FLOW	VESTIBULE 101	3	1	240	12.5	2#12	21mm	20A-2P	BY ELEC	BY MECH	-
FF-2	FORCE FLOW	VESTIBULE 101	3	1	240	12.5	2#12	21mm	20A-2P	BY ELEC	BY MECH	-
ERV-1	ENERGY RECOVERY VENTILATOR	MECHANICAL ROOM	-	1	240	MCA 7.9	2#12	21mm	15A-2P	BY ELEC	BY MECH	-
EDH-1	ELECTRIC DUCT HEATER	MECHANICAL ROOM	10	1	240	MCA 52.1	2#6	21mm	60A-2P	BY ELEC	BY MECH	-
AC-1	AIR CONDITIONING UNIT	PLAY AREA 121	-	1	240	MCA 1	2#12	21mm	--	BY ELEC	BY MECH	PROVIDE FEED FROM OUTDOOR CONDENSING UNIT CU-3
WH-1	WATER HEATER	MECHANICAL ROOM	-	1	120	3.1	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
P-1	DOMESTIC HOT WATER RECIRC. PUMP	MECHANICAL ROOM	-	1	120	2	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
LS-1	DUPLEX SEWAGE LIFT STATION	CRAWLSPACE	1.92	1	120	16	2#10	21mm	40A-1P	BY ELEC	BY MECH	PROVIDE POWER CONNECTIONS TO CONTROL PANEL AND FROM CONTROL PANEL TO EACH PUMP IN CRAWLSPACE
SP-1	SUMP PUMP	CRAWLSPACE	248W	1	120	7.2	2#12	21mm	15A-1P	BY ELEC	BY MECH	-
BB-1	ELECTRIC BASEBOARD HEATER	OFFICE 108	1.5	1	120	12.5	2#12	21mm	20A-1P	BY ELEC	BY MECH	-
BB-2	ELECTRIC BASEBOARD HEATER	OFFICE 107	1.5	1	120	12.5	2#12	21mm	20A-1P	BY ELEC	BY MECH	-
CF-1	CEILING FAN	ROTUNDA 102	-	1	120	-	2#12	21mm	15A-1P	BY ELEC	BY MECH	-

KREATE
200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4S 1H5
PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com
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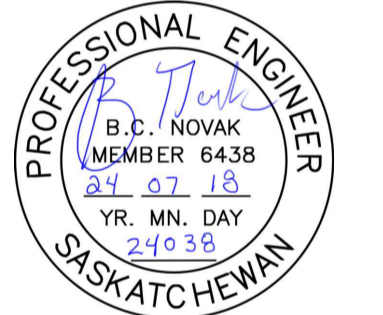
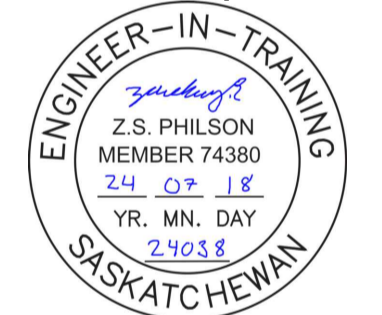
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STRUCTURAL ENGINEERS
BROWNLEE BEATON KRETE
3811 PASQUA STREET • REGINA • SK • S4S 0A9
TEL: 306.585.8855 • FAX: 306.585.8856
STRUCTURAL

HDA ENGINEERING LTD
Mechanical Engineering Consultants
1580 Angus Street Phone: (306) 525-9815
Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com
MECHANICAL

ALFA ENGINEERING LTD.
Consulting Electrical Engineers
Regina, Saskatchewan • 24038
ELECTRICAL

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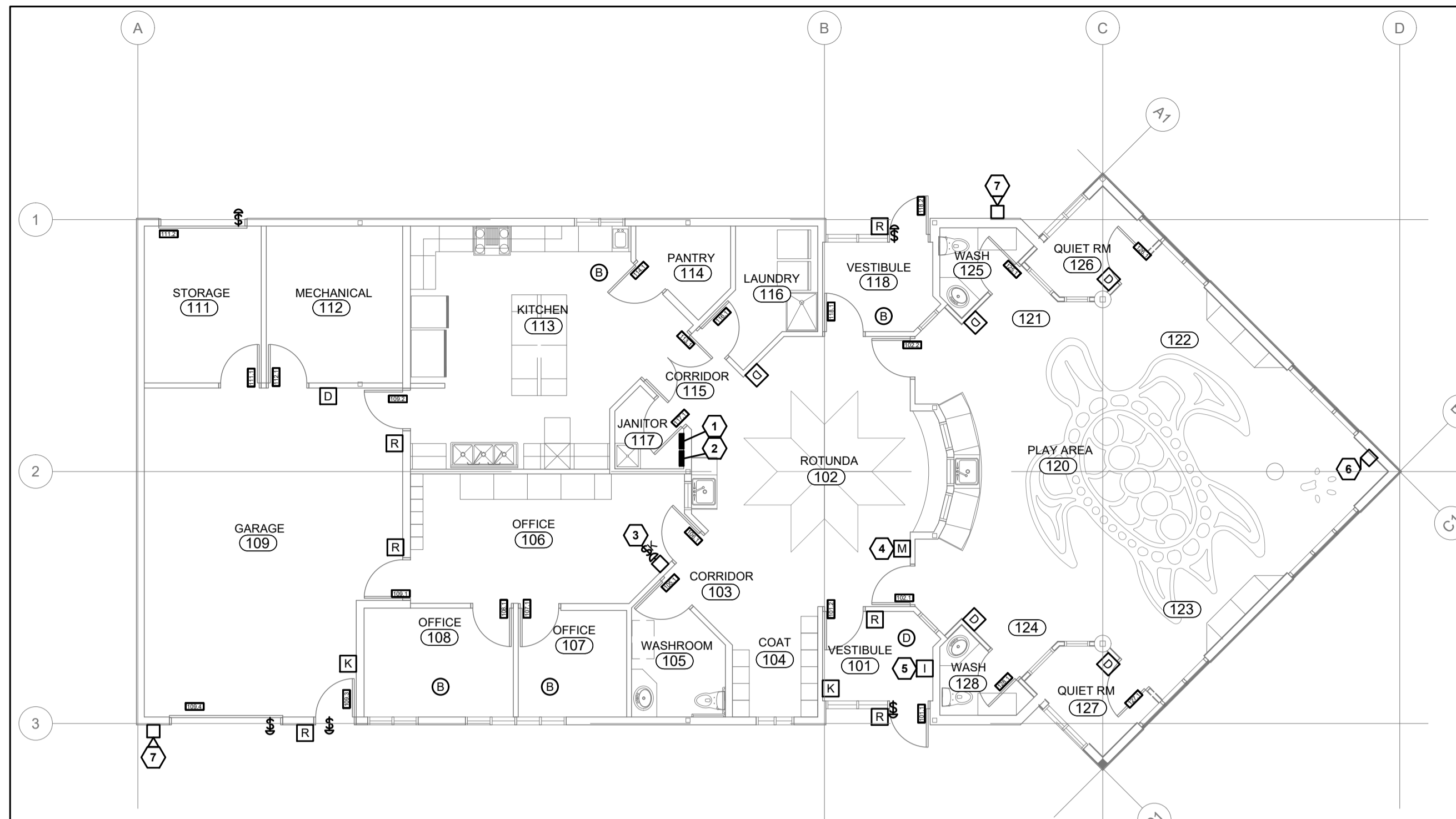
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OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

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BALCARRES, SASKATCHEWAN

DRAWING TITLE:
BUILDING SYSTEMS PLAN

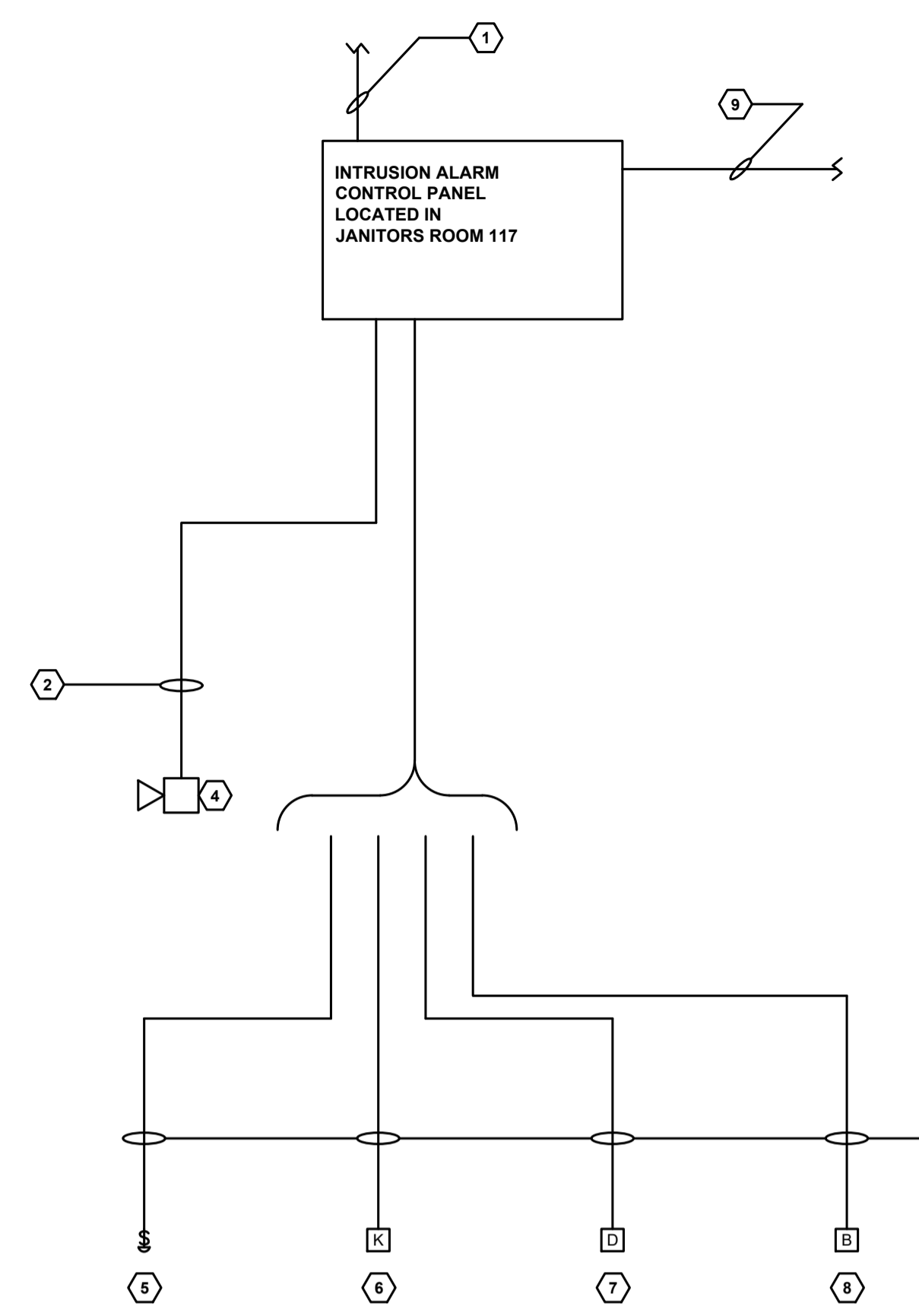
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1 | SECURITY SYSTEMS PLAN
E-5 | 1:100

- SECURITY SYSTEMS PLAN NOTE LEGEND:**
- 1 ACCESS CONTROL SYSTEM PANEL. REFER TO ACCESS CONTROL SYSTEM SCHEMATIC DETAIL 3/E-5. MOUNT AT HIGH LEVEL IN JANITOR ROOM TO AVOID CONTACT BY OPEN DOOR.
 - 2 INTRUSION ALARM SYSTEM CONTROL PANEL. REFER TO INTRUSION ALARM SYSTEM SCHEMATIC DETAIL 2/E-5. MOUNT AT HIGH LEVEL IN JANITOR ROOM TO AVOID CONTACT BY OPEN DOOR.
 - 3 ACCESS CONTROL SYSTEM EMERGENCY SHUTDOWN PUSHBUTTON. REFER TO ACCESS CONTROL SYSTEM SCHEMATIC DETAIL 3/E-5. MOUNT AT 1150 AFF. PROVIDE LAMADOID LABEL "EMERGENCY DOOR LOCK".
 - 4 ACCESS CONTROL SYSTEM DOOR INTERCOM MASTER STATION. REFER TO ACCESS CONTROL SYSTEM SCHEMATIC DETAIL 3/E-5. MOUNT AT 1500 AFF TO CENTER OF SCREEN.
 - 5 ACCESS CONTROL SYSTEM DOOR INTERCOM STATION. REFER TO ACCESS CONTROL SYSTEM SCHEMATIC DETAIL 3/E-5. MOUNT AT 1500 AFF TO CENTER OF CAMERA.
 - 6 ACCESS CONTROL SYSTEM CHIME EXTENDER. REFER TO ACCESS CONTROL SYSTEM SCHEMATIC DETAIL 3/E-5. MOUNT AT 2440 AFF.
 - 7 INTRUSION ALARM SYSTEM EXTERIOR SIREN. REFER TO INTRUSION ALARM SYSTEM SCHEMATIC DETAIL 2/E-5.

2 | INTRUSION ALARM SYSTEM SCHEMATIC.
E-5 | NTS



INTRUSION ALARM SYSTEM SCHEMATIC NOTE LEGEND

1	PROVIDE AND INSTALL 2#12 POWER FEED FROM DESIGNATED CIRCUIT
2	2#14 STRANDED IN 21mm ØC.
3	4C#22 Z STATION CABLE IN 21mm ØC TO EACH DEVICE. ALL DEVICES SHALL BE CONNECTED AS INDIVIDUAL POINTS. ROUTE CONDUIT AND CABLING FROM DEVICE LOCATION TO EDGE OF CABLE TRAY IN CRAWLSPACE.
4	INTRUSION ALARM SYSTEM SIREN. REFER TO FLOOR PLANS FOR NUMBER AND LOCATION. CONNECT SIRENS TO THE MAIN CONTROL PANEL.
5	INTRUSION ALARM SYSTEM DOOR CONTACTS. REFER TO FLOOR PLANS FOR NUMBER AND LOCATION. CONNECT EACH DOOR CONTACT SHOWN ON THE PLANS AS A SEPARATE POINT.
6	INTRUSION ALARM SYSTEM ENTRANCE KEY PAD. REFER TO FLOOR PLANS FOR NUMBER AND LOCATION.
7	INTRUSION ALARM SYSTEM PASSIVE INFRARED SENSOR (PIR). REFER TO FLOOR PLANS FOR NUMBER AND LOCATION. CONNECT EACH P.I.R. SHOWN ON THE PLANS AS A SEPARATE POINT.
8	INTRUSION ALARM SYSTEM GLASS BREAK SENSOR. REFER TO FLOOR PLANS FOR NUMBER AND LOCATION. CONNECT EACH P.I.R. SHOWN ON THE PLANS AS A SEPARATE POINT.
9	CONNECTION FOR REMOTE MONITORING. COORDINATE PROVISION OF DEDICATED PHONE LINE FOR REMOTE MONITORING WITH OWNER.

INTRUSION ALARM SYSTEM SCHEMATIC GENERAL NOTES

ALL WIRING SHALL BE RUN IN CONDUIT. CABLING MAY BE RUN USING THE CABLE TRAY PROVIDED IN THE CRAWLSPACE. CONDUIT SHALL RUN FROM THE DEVICE LOCATION TO THE EDGE OF THE CABLE TRAY IN THE CRAWLSPACE.

CONFIRM SYSTEM WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER/SUPPLIER PRIOR TO COMMENCING WORK.

PROVIDE EXPANSION MODULES AS REQUIRED TO CONNECT ALL DEVICES AS INDIVIDUAL POINTS TO THE SYSTEM

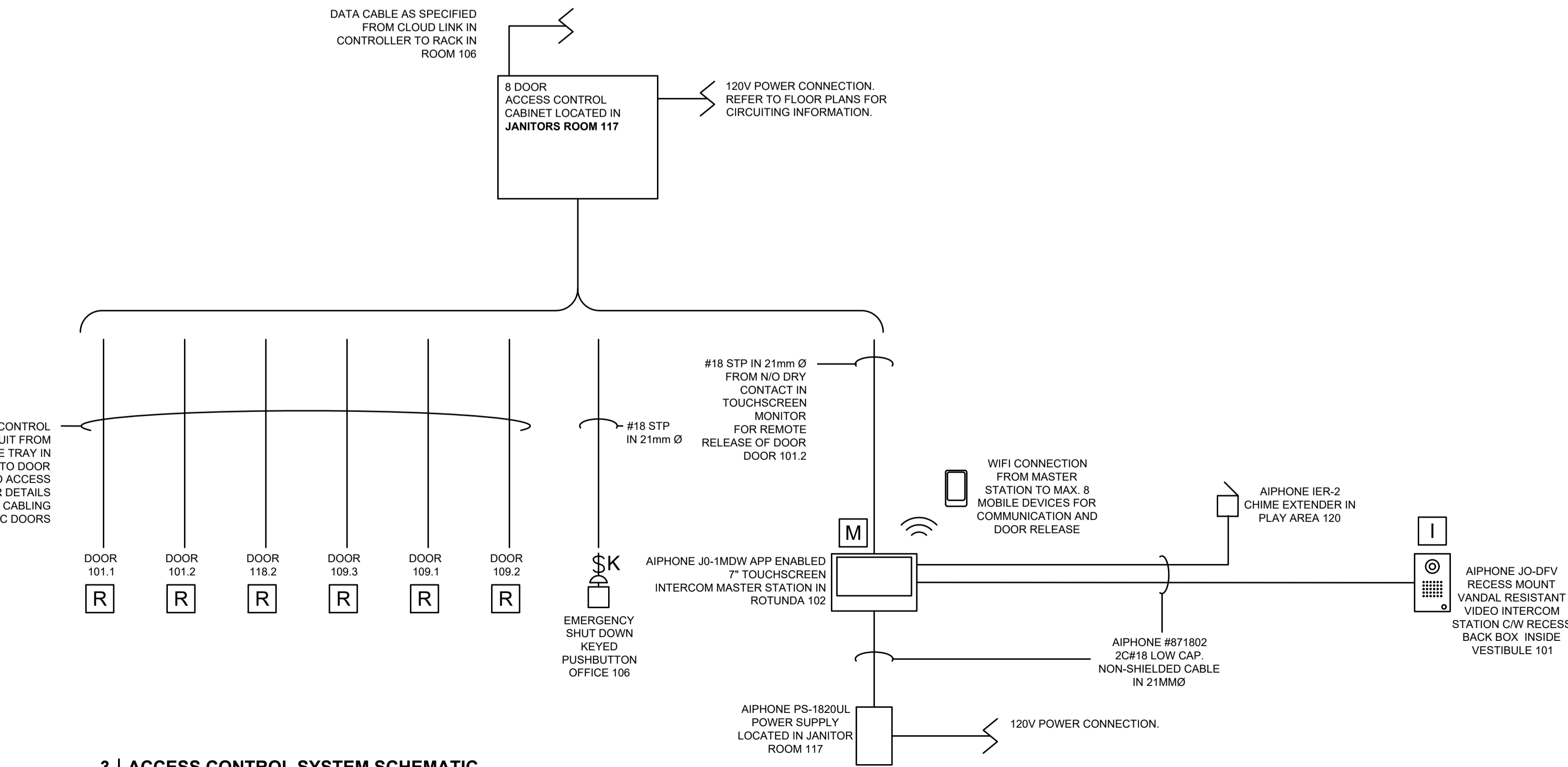
CONFIRM KEYPAD ARMING/DISARMING SCHEDULE WITH OWNERS PRIOR TO SYSTEM PROGRAMMING AND SET UP.

INTRUSION ALARM SYSTEM ZONE SCHEDULE

ZONE #	DEVICES
1 (DELAY)	PIR AND DOOR CONTACTS VESTIBULE 101
2 (DELAY)	PIR AND DOOR CONTACTS GARAGE 109
3	ALL REMAINING PIR DEVICES
4	ALL REMAINING DOOR CONTACTS
5	ALL BREAK GLASS STATIONS

INTRUSION ALARM KEYPAD ARMING/DISARMING SCHEDULE

KEY PAD LOCATION	INTRUSION ALARM ZONES ARMED/DISARMED
VESTIBULE 100	1,2,3,4,5
GARAGE 109	1,2,3,4,5



3 | ACCESS CONTROL SYSTEM SCHEMATIC
E-5 | 1:100

ACCESS CONTROL SYSTEM GENERAL NOTES

COORDINATE SYSTEM WIRING REQUIREMENTS WITH ACCESS CONTROL EQUIPMENT SUPPLIER AND DOOR HARDWARE SUPPLIER PRIOR TO COMMENCING WORK.

REFER TO ARCHITECTURAL HARDWARE SCHEDULE FOR DOORS EQUIPPED WITH ACCESSIBLE DOOR OPERATORS. MAKE CONTROL CONNECTIONS FOR COORDINATING RELAYS AT DOORS EQUIPPED WITH BOTH DOOR OPERATORS AND ACCESS CONTROL. ACCESSIBLE DOOR OPERATORS SHALL NOT ACTIVATE WHEN DOORS EQUIPPED WITH ACCESS CONTROL ARE IN A LOCKED CONDITION.

EMERGENCY SHUT DOWN KEYED PUSHBUTTONS SHALL BE MINIMUM 50mmØ RED MUSHROOM HEAD PUSHBUTTON, MAINTAINED CONTACT, PUSH TO OPERATE. KEYED TO RELEASE. THE PUSHBUTTON SHALL INCORPORATE A MORTISE STYLE CYLINDER KEYED TO THE OWNERS' MASTER KEY SYSTEM.

THE MANUAL DOOR RELEASE PUSHBUTTON SHALL BE MOMENTARY CONTACT GREEN HEAD C/W PUSHBUTTON COLLAR.

SYSTEM SEQUENCE OF OPERATION

ACCESS CONTROLLED DOORS CONNECTED TO THE ACCESS CONTROL SYSTEM SHALL BE LOCKED OR UNLOCKED ACCORDING TO THE TIME/DAY/DATE SCHEDULE SET BY THE SYSTEM.

INDIVIDUALS WITH VALID CREDENTIALS STORED ON FOBS OR CARDS SHALL BE ALLOWED TO UNLOCK DOORS AT ANY TIME DURING THE TIME/DAY/DATE SCHEDULE OR OUTSIDE THE TIME/DAY/DATE SCHEDULE.

WHEN THE EMERGENCY SHUT DOWN PUSH BUTTON IS ACTIVATED:

- ALL ACCESS CONTROLLED DOORS SHALL LOCK.
- THE SYSTEM SHALL NOT ALLOW THE INTERCOM MASTER STATION TO UNLOCK DOOR 101.2
- THE SYSTEM SHALL NOT ALLOW ACCESS TO INDIVIDUALS WITH CREDENTIALS STORED ON CARDS OR FOBS
- THE SYSTEM SHALL ONLY ALLOW ACCESS TO INDIVIDUALS WITH "MASTER" CREDENTIALS STORED ON THEIR CARDS OR FOBS

WHEN THE EMERGENCY SHUT DOWN PUSH BUTTON IS DEACTIVATED, THE ACCESS CONTROL SYSTEM SHALL RETURN TO THE PREVIOUS PROGRAMMED TIME /DAY /DATE SCHEDULE.

THE VIDEO INTERCOM STATION IN VESTIBULE 101 SHALL PLACE CALLS TO AND COMMUNICATE WITH THE VIDEO MASTER STATION IN ROTUNDA 102 AND WITH UP TO 8 AUTHORIZED MOBILE DEVICES VIA A WIFI CONNECTION. THE VIDEO MASTER STATION AND THE AUTHORIZED MOBILE DEVICES SHALL THEN BE ABLE UNLOCK DOOR 101.2

THE CHIME EXTENDER IN PLAY AREA 120 SHALL SOUND WHENEVER A CALL IS PLACED FROM THE VIDEO INTERCOM STATION IN VESTIBULE 101.

KREATE

200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4S 1A5

PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com

KREATE ARCHITECTURE AND DESIGN LTD.

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STRUCTURAL ENGINEERS
BROWNLEE BEATON KREK
3811 PACIFIC STREET • REGINA • SK • S4S 0A9
TEL: (306) 585-8888 • FAX: (306) 585-8888

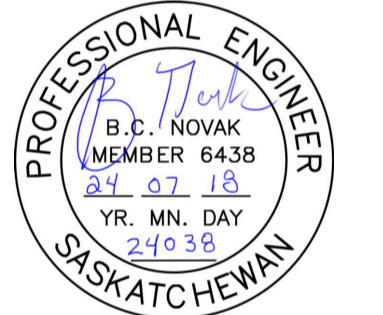
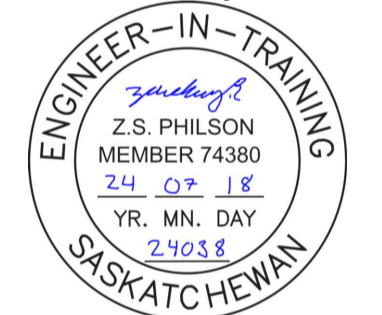
HDA ENGINEERING LTD
Mechanical Engineering Consultants

1560 Angus Street Phone: (306) 525-9815
Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com

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P.O. BOX 759
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S0G 0C0

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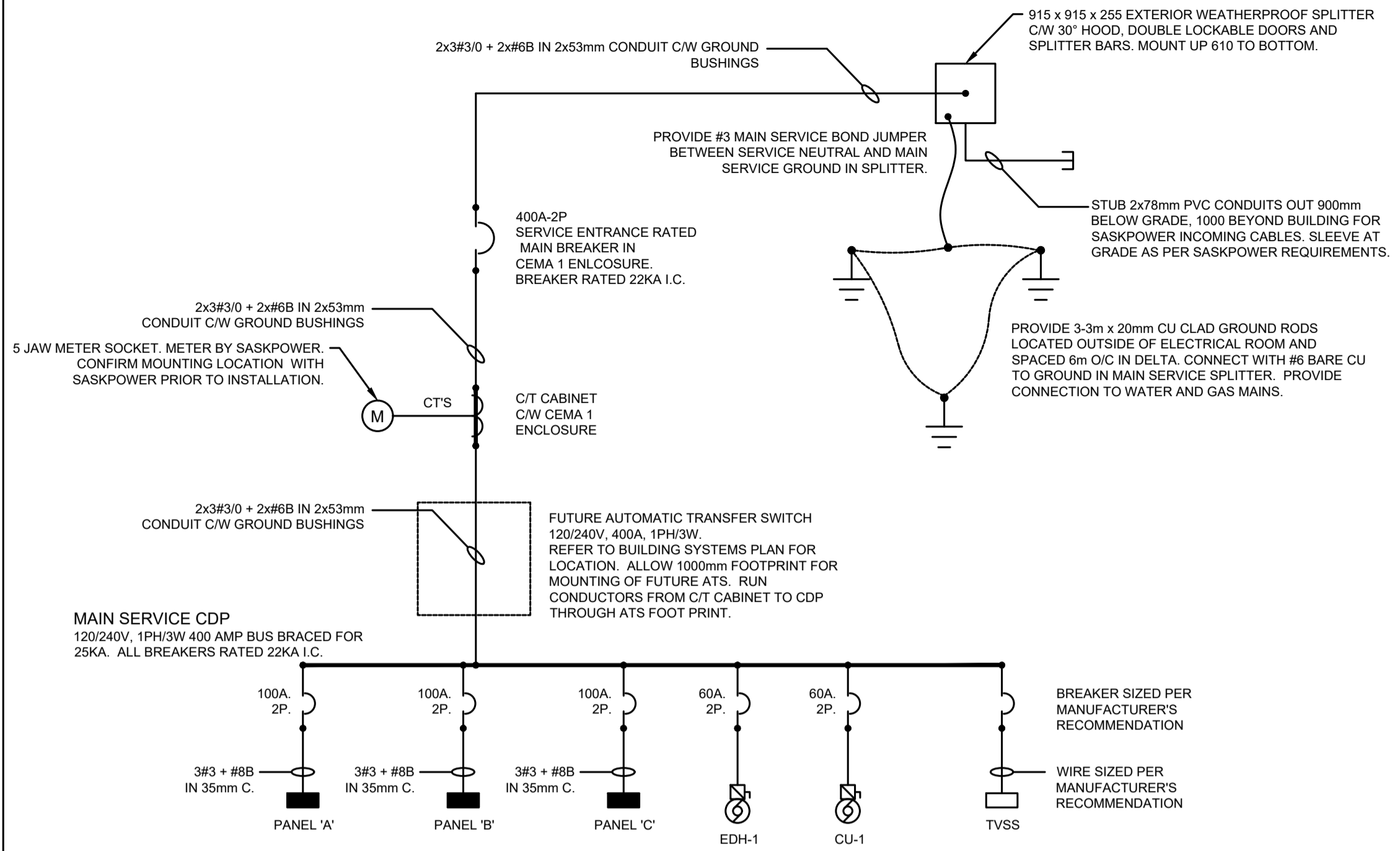
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BUSSING: 100 AMPS		PANEL 'A'		10 KA I.C.	
TYPE: NQ	120/240	VOLTS	1 PHASE	3 WIRE	
MOUNT: SURFACE					
SERVICE	TRIP	CIRCUIT	TRIP	SERVICE	
LIGHTING	15	1	2	15	EXIT LIGHTING
SITE LIGHTING	15	3	4	15	CRAWLSPACE LIGHTING
RECEPTACLES	15	5	6	15	SUMP PUMP
PLYWOOD RECEPTACLES	15	7	8	15	OVERHEAD DOOR
EXTERIOR RECEPTACLES	15	9	10	15	ERV-1
CU-2	35	11	12		
		13	14	15	P-1
CU-3	20	15	16	20	F-1
		17	18	15	F-2
EF-1	15	19	20	15	UH-2
LS-1	40	21	22		
UH-4	20	23	24	15	WH-1
		25	26	20	UH-1
UH-5	20	27	28		
		29	30	15	UH-3
RECEPTACLES	15	31	32	15	SUMP PUMP PANEL
CRAWLSPACE RECEPTACLE	15	33	34	15	LS CONTROL PANEL
SPARE	15	35	36	15	OVERHEAD DOOR
SPARE	15	37	38	15	SPARE
SPARE	15	39	40	15	SPARE
SPARE	15	41	42	15	SPARE

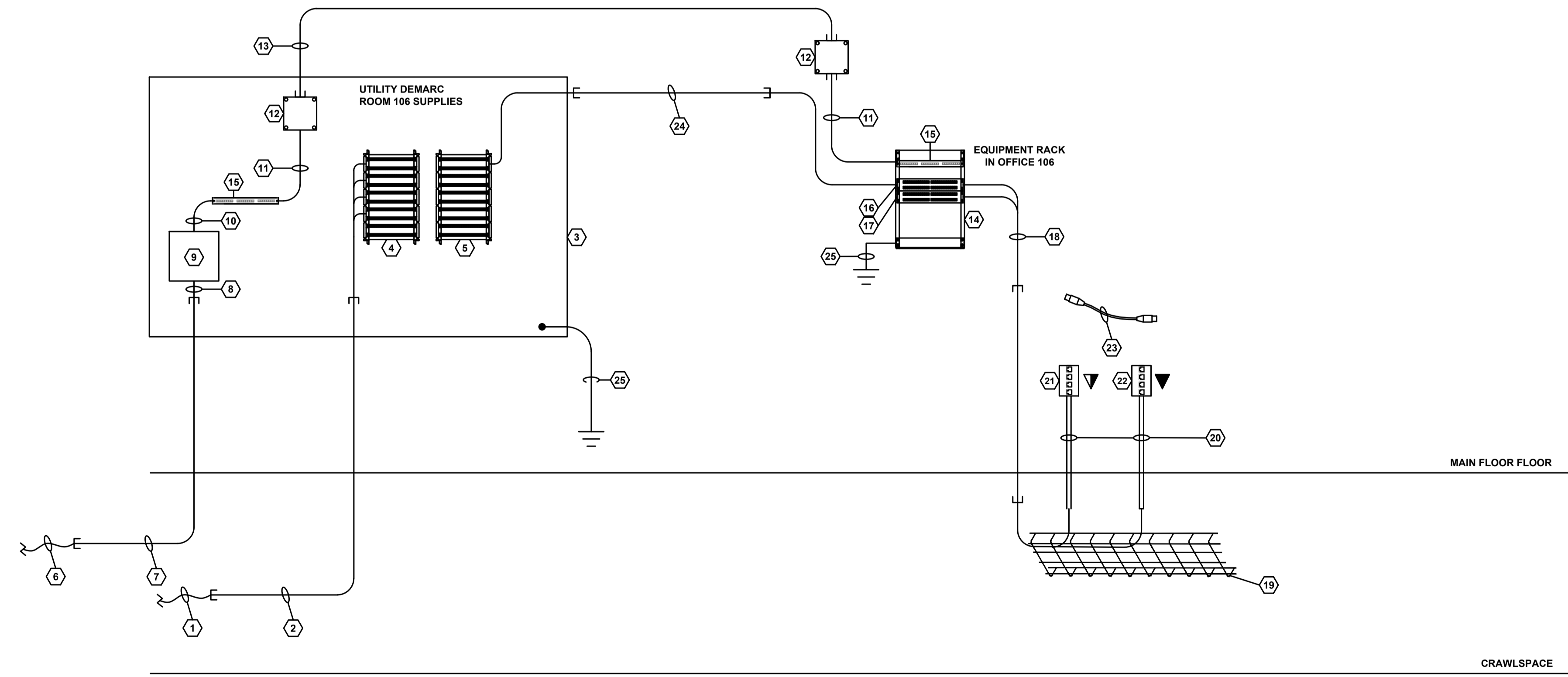
BUSSING: 100 AMPS		PANEL 'B'		10 KA I.C.	
TYPE: NQ	120/240	VOLTS	1 PHASE	3 WIRE	
MOUNT: SURFACE					
SERVICE	TRIP	CIRCUIT	TRIP	SERVICE	
LIGHTING	15	1	2	20	COUNTER RECEPTACLE
RECEPTACLES	15	3	4	20	COUNTER RECEPTACLE
WASHER	30	5	6	50	STOVE
		7	8		
DRYER	15	9	10	15	FRIDGE
SMOKE DAMPER	15	11	12	15	FREEZER
ACCESS CONTROL	15	13	14	20	COUNTER RECEPTACLE
RECEPTACLES	15	15	16	20	COUNTER RECEPTACLE
RANGE HOOD	15	17	18	20	FF-2
SINKS	15	19	20		
MICROWAVE	15	21	22	20	COUNTER RECEPTACLE
INTRUSION ALARM	15	23	24	20	COUNTER RECEPTACLE
SPARE	15	25	26	20	COUNTER RECEPTACLE
SPARE	15	27	28	20	COUNTER RECEPTACLE
SPARE	15	29	30	15	SPARE
SPACE	31	32	15	SPARE	
SPACE	33	34	15	SPARE	
SPACE	35	36	SPARE	35	36
SPACE	37	38	SPACE	37	38
SPACE	39	40	SPACE	39	40
SPACE	41	42	SPACE	41	42

BUSSING: 100 AMPS		PANEL 'C'		10 KA I.C.	
TYPE: NQ	120/240	VOLTS	1 PHASE	3 WIRE	
MOUNT: SURFACE					
SERVICE	TRIP	CIRCUIT	TRIP	SERVICE	
LIGHTING	15	1	2	15	RECEPTACLES
LIGHTING	15	3	4	15	RECEPTACLES
FEATURE LIGHTING	15	5	6	20	COPIER
RECEPTACLES	15	7	8	15	RACK RECEPTACLES
RECEPTACLES	15	9	10	15	RECEPTACLES
COUNTER RECEPTACLES	20	11	12	20	COUNTER RECEPTACLE
COUNTER RECEPTACLES	20	13	14	15	RECEPTACLES
BB-1	20	15	16	15	RECEPTACLES
BB-2	20	17	18	15	DOOR OPERATOR
CF-1	15	19	20	15	CAR RECEPTACLE
FF-1	20	21	22	15	CAR RECEPTACLE
		23	24	15	CAR RECEPTACLE
SINKS	15	25	26	15	CAR RECEPTACLE
SPARE	15	27	28	15	CAR RECEPTACLE
SPARE	15	29	30	15	CAR RECEPTACLE
SPARE	15	31	32	15	CAR RECEPTACLE
SPACE	33	34	15	SPACE	
SPACE	35	36	SPACE	35	36
SPACE	37	38	SPACE	37	38
SPACE	39	40	SPACE	39	40
SPACE	41	42	SPACE	41	42



1 | MAIN SERVICE SCHEMATIC - 400A, 120/240V, 1PH/3W
E-6 | N.T.S.

ADMINISTRATION DATA AND AND VOICE CABLING RISER DIAGRAM NOTE LEGEND	
1	INCOMING UNDERGROUND TELEPHONE SERVICE BY SASKTEL.
2	PROVIDE SEPARATE 104mm PVC CONDUIT RUN 915mm BELOW GRADE, TO EDGE OF SITE FOR SASKTEL'S TELEPHONE SERVICE. REFER TO SITE PLAN DETAIL 1/E-1
3	1220mm HIGH x 21mm G1S DEMARCATION PLYWOOD C/W TWO COATS GREY PAINT IN GARAGE 109. REFER TO PLANS FOR EXTENT
4	TELEPHONE UTILITY DEMARCATION EQUIPMENT.
5	WALL MOUNT IDC/DC VOICE CONNECTORS AS SPECIFIED. TERMINATE OWNER ANALOG VOICE CABLES AT THIS LOCATION.
6	INCOMING UNDERGROUND FIBER SERVICE BY SASKTEL.
7	PROVIDE SEPARATE 104mm PVC CONDUIT RUN 915mm BELOW GRADE, TO EDGE OF SITE FOR SASKTEL'S INCOMING FIBER SERVICE. REFER TO SITE PLAN 1/E102.
8	FIBER CABLE BY SASKTEL.
9	SASKTEL UTILITY FIBER DEMARCATION EQUIPMENT.
10	FIBER OPTIC PATCH CABLES BY SASKTEL.
11	RUN FIBER OPTIC CABLE IN 27mm FLEXIBLE, PVC JACKETED, METAL CONDUIT FROM JUNCTION BOX TO FIBRE OPTIC PATCH PANEL.
12	300 x 300 x 2000 JUNCTION BOX C/W HINGED LOCKABLE COVER. MOUNT JUNCTION BOX ON WALL. COIL 3000mm EXCESS FIBRE CABLE IN BOX BEFORE TERMINATING.
13	6 STRAND SINGLE MODE (OS1) FIBRE INDOOR RISER CABLE AS SPECIFIED. RUN FIBRE OPTIC CABLE IN CONDUIT. TERMINATE IN FIBRE OPTIC PATCH PANELS AT DEMARCATION PLYWOOD AND AT EQUIPMENT RACK
14	WALL MOUNTED EQUIPMENT RACK IN OFFICE 106
15	SINGLE MODE FIBER PATCH PANEL AS SPECIFIED. MOUNT ON HORIZONTAL BRACKET AT DEMARCATION PLYWOOD.
16	VOICE PATCH PANEL AS SPECIFIED.
17	DATA PATCH PANEL AS SPECIFIED.
18	ROUTE ALL DATA AND VOICE AND ANALOG VOICE CABLING DOWN CONDUIT STUB 106 CABLE TRAY IN CRAWLSPACE.
19	CABLE TRAY AS SPECIFIED INSTALLED IN CRAWLSPACE. REFER TO CRAWLSPACE PLAN FOR EXTENT
20	ROUTE CABLING FROM EDGE OF CABLE TRAY IN CONDUIT TO DEVICE OUTLETS ON MAIN FLOOR
21	ADMINISTRATIVE DATA OUTLETS. REFER TO BUILDING SYSTEM PLANS FOR NUMBER AND LOCATION. TERMINATE NUMBER OF CAT 6 CABLES IN OUTLET AS INDICATED ON THE PLANS
22	ADMINISTRATIVE VOICE OUTLETS. REFER TO BUILDING SYSTEM PLANS FOR NUMBER AND LOCATION. TERMINATE NUMBER OF CAT 6 CABLES IN OUTLET AS INDICATED ON THE PLANS
PATCH CABLE. PROVIDE THE FOLLOWING:	
LENGTH	QUANTITY
610mm	50% PER TERMINATED JACKS IN PATCH PANELS. (TYPICAL)
1000mm	50% PER TERMINATED JACKS IN PATCH PANELS. (TYPICAL)
3000mm	1 PER TERMINATED WALL MOUNT JACK.
24	ROUTE 25 PAIR ANALOG VOICE CABLING FROM IDC/DC CONNECTORS AT EQUIPMENT PLYWOOD IN CONDUIT TO EQUIPMENT RACK IN OFFICE 106
25	#6 GROUND TO BUILDING GROUND SYSTEM



2 | ADMINSTRATIVE DATA AND VOICE CABLING SYSTEM SCHEMATIC
E-6 | N.T.S.

ISSUE	DESCRIPTION	DATE
1	ISSUE FOR BID	18 JUL 24

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CERTIFICATE OF AUTHORIZATION
ALFA ENGINEERING LTD.
NUMBER 14
PERMISSION TO CONSULT HELD BY:
DISCIPLINE: ELECTRICAL 6938 BT

ENGINEER-IN-TRAINING
Z.S. PHILSON
MEMBER 74380
24 07 18
YR. MN. DAY
24038
SASKATCHEWAN

PROFESSIONAL ENGINEER
B.C. NOVAK
MEMBER 6438
24 07 18
YR. MN. DAY
24038
SASKATCHEWAN

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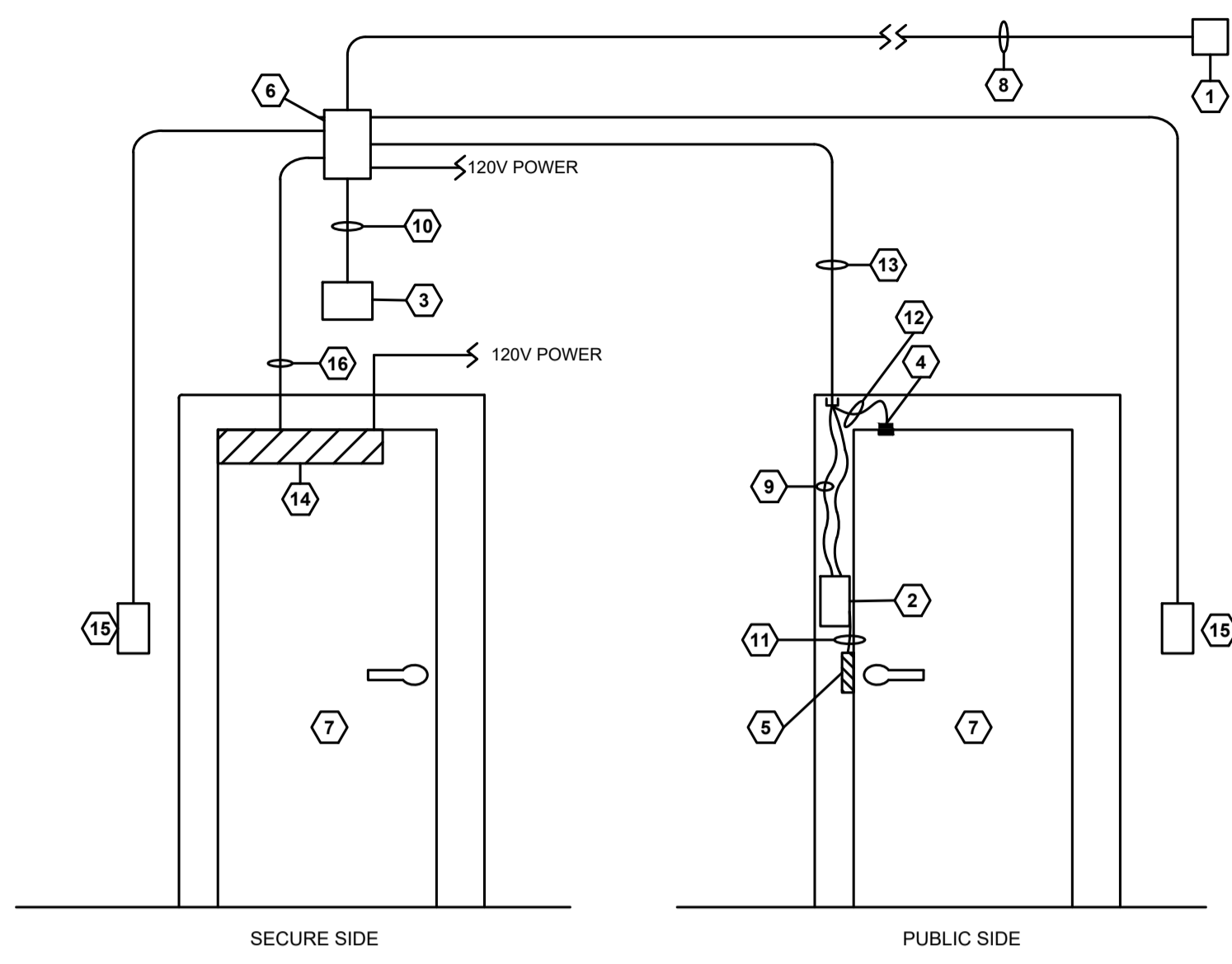
CLIENT INFORMATION:
OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:
PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:
MAIN SERVICE SCHEMATIC AND
ADMINISTRATIVE DATA AND VOICE
CABLING SYSTEM SCHEMATIC

DRAWN BY: ZP/LP	CHECKED BY: BN	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	22-117	DRAWING NO:
		E-6

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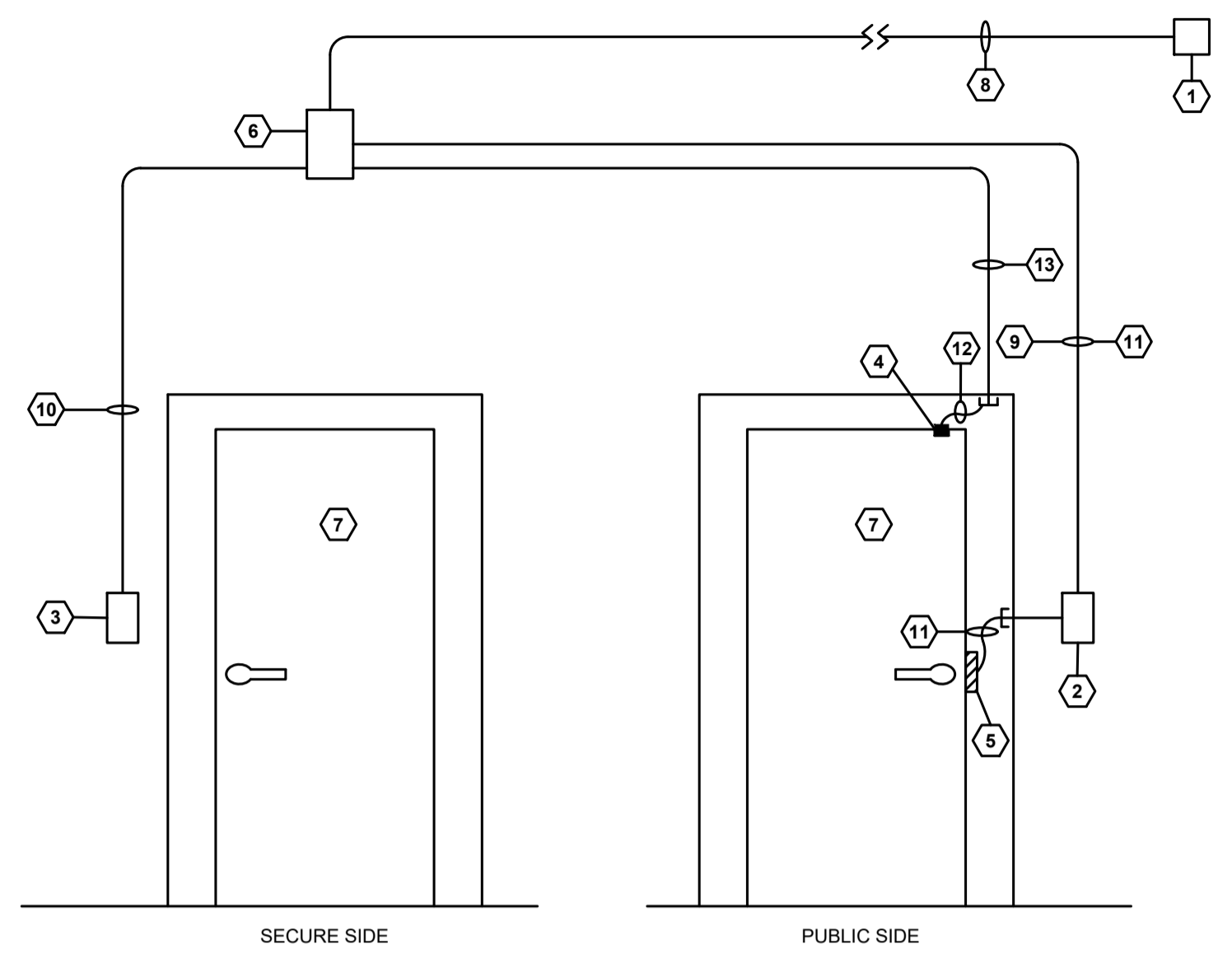


ACCESS CONTROL DETAIL - DOOR 101.1	
1	CARD READER CONTROLLER/POWER SUPPLY LOCATED IN JANITOR ROOM 117
2	MULLION MOUNT CARD READER AS SPECIFIED. MOUNT ON LATCH SIDE OF DOOR FRAME.
3	PIR REQUEST TO EXIT DEVICE AS SPECIFIED.
4	DOOR POSITION SWITCH AS SPECIFIED FLUSH MOUNTED IN DOOR AND DOOR FRAME. PROVIDE SINGLE SWITCH AT DOORS ALSO EQUIPPED WITH INTRUSION ALARM. PROVIDE SEPARATE CABLE TO EACH SYSTEM.
5	ELECTRIC STRIKE. REFER TO ARCHITECTURAL SPECIFICATION. STRIKE SUPPLIED AND INSTALLED BY HARDWARE DIVISION AND WIRED BY ELECTRICAL CONTRACTOR.
6	PROVIDE A 300MM X 300 MM X 150MM WALL MOUNTED JUNCTION BOX ABOVE FINISHED CEILING ON SECURE SIDE OF DOOR. ELECTRICAL CONTRACTOR SHALL PROVIDE CAMDEN CX-33 INTEGRATOR MODULE AND ASSOCIATED POWER SUPPLY TO FACILITATE INTERCONNECTION OF DOOR OPERATOR AND CARD ACCESS SYSTEM. COORDINATE CONNECTIONS WITH ACCESS CONTROL EQUIPMENT AND DOOR OPERATOR TO PROVIDE A FULLY FUNCTIONING SYSTEM THAT MEETS THE SEQUENCE OF OPERATION.
7	DOOR. REFER TO ARCHITECTURAL DETAILS AND HARDWARE SCHEDULE.
8	PROVIDE A MULTI CONDUCTOR COMPOSITE ACCESS CONTROL CABLE AS SPECIFIED RUN IN CONDUIT AND CABLE TRAY FROM CARD READER CONTROLLER/POWER SUPPLY TO JUNCTION BOX ABOVE DOOR.
9	6C#22 SHIELDED IN 21MM CONDUIT TO CARD READER MOUNTED ON DOOR FRAME
10	2C#22 UNSHIELDED IN 21MM CONDUIT TO RTE ROUGH-IN BOX.
11	4C#22 UNSHIELDED TO ELECTRIC STRIKE MOUNTED IN DOOR FRAME.
12	4C#22 UNSHIELDED TO DOOR POSITION SWITCH MOUNTED IN DOOR FRAME.
13	27MM CONDUIT RUN INTO DOOR FRAME.
14	ELECTRIC DOOR OPERATOR SUPPLIED AND INSTALLED BY HARDWARE DIVISION.
15	ELECTRIC DOOR OPERATOR PUSHBUTTON ON EITHER SIDE OF DOOR. PROVIDE A SINGLE GANG OUTLET BOX. PUSH BUTTON SUPPLIED BY HARDWARE DIVISION AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF OUTLET BOX WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO ROUGH-IN.
16	CONTROL CABLING FROM INTEGRATOR MODULE TO DOOR OPERATOR INSTALLED BY ELECTRICAL CONTRACTOR.

- SEQUENCE OF OPERATION (DURING SCHEDULED LOCKED PERIOD)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS LOCKED BY ELECTRIC DOOR STRIKE THROUGH A PRESET TIMING FUNCTION ON THE ACCESS CONTROL SYSTEM.
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS LOCKED UNTIL REQUEST TO EXIT DEVICE IS ACTIVATED. ONCE ACTIVATED DOORS WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR. USE OF DOOR OPERATOR PUSHBUTTON ON THIS SIDE OF DOOR WILL UNLOCK DOOR AND ACTIVATE DOOR OPERATOR. DOOR RELOCKS.
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
WHEN CARD READER CONFIRMS CREDENTIAL, THE ACTIVATED DOOR WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR AND ENABLE USE OF THE DOOR OPERATOR TO OPEN THE DOOR. DOOR RELOCKS.

- SEQUENCE OF OPERATION (DURING SCHEDULED UNLOCKED PERIOD)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS UNLOCKED BY ELECTRIC DOOR STRIKE THROUGH A PRESET TIMING FUNCTION ON THE ACCESS CONTROL SYSTEM.
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE OR BY ACTIVATING THE DOOR OPERATOR BY THE PUSHBUTTON ON THE SECURE SIDE OF THE BUILDING.
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE OR BY ACTIVATING THE DOOR OPERATOR BY THE PUSHBUTTON ON THE PUBLIC SIDE OF THE BUILDING.

1 | DOOR 101.1 ACCESS CONTROL DETAIL
E-7 | NTS

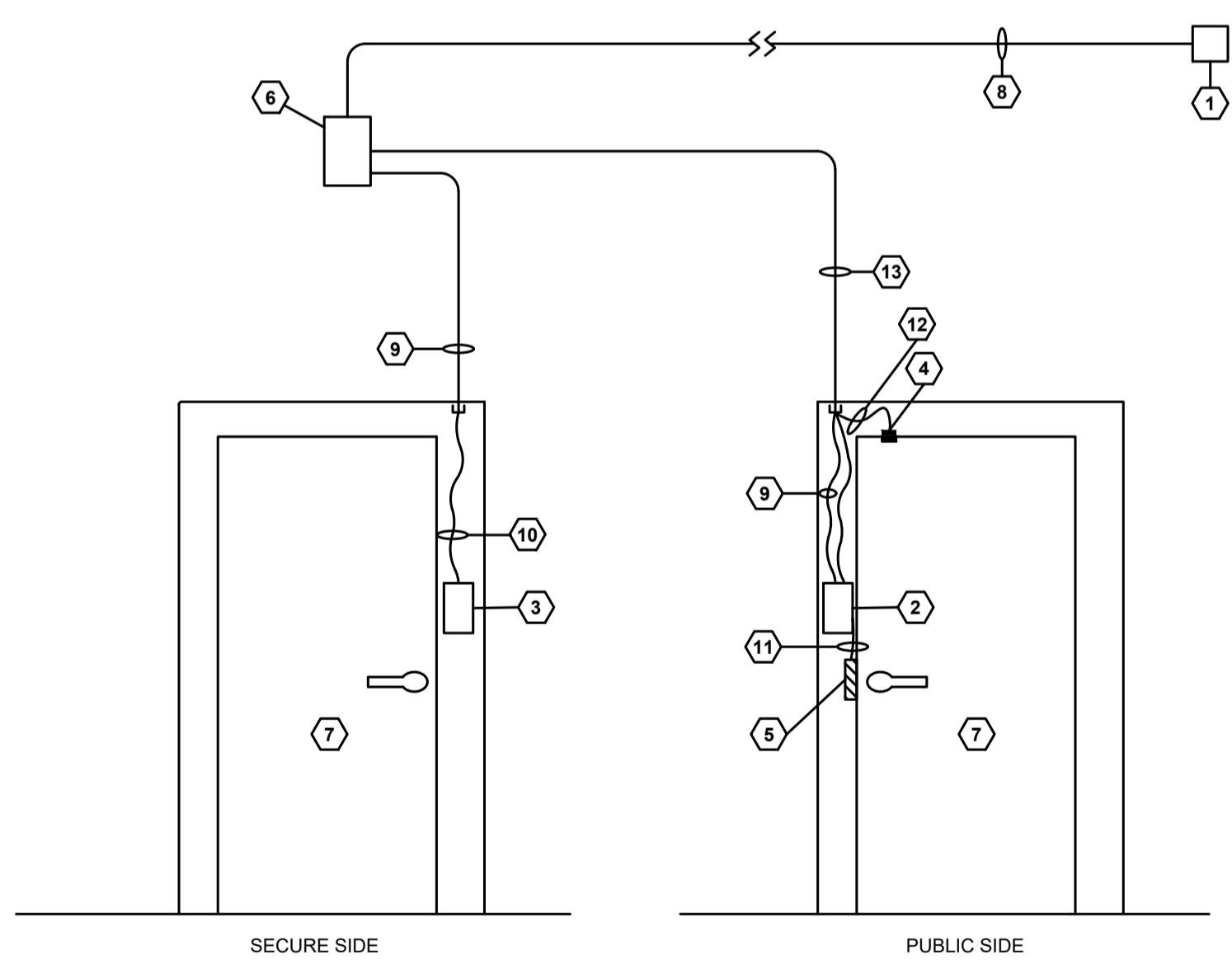


ACCESS CONTROL DETAIL - 101.2, 109.1, 109.2 AND 109.3	
1	CARD READER CONTROLLER/POWER SUPPLY LOCATED IN JANITOR ROOM 117.
2	CARD READER AS SPECIFIED.
3	REQUEST TO EXIT DEVICE PUSH BUTTON AS SPECIFIED.
4	DOOR POSITION SWITCH AS SPECIFIED FLUSH MOUNTED IN DOOR AND DOOR FRAME. PROVIDE SINGLE SWITCH AT DOORS ALSO EQUIPPED WITH INTRUSION ALARM. PROVIDE SEPARATE CABLE TO EACH SYSTEM.
5	ELECTRIC STRIKE. REFER TO ARCHITECTURAL SPECIFICATION. STRIKE SUPPLIED AND INSTALLED BY HARDWARE DIVISION AND WIRED BY ELECTRICAL CONTRACTOR.
6	PROVIDE A 150MM X 150MM X 75MM JUNCTION BOX ABOVE FINISHED CEILING.
7	DOOR. REFER TO ARCHITECTURAL DETAILS AND HARDWARE SCHEDULE.
8	PROVIDE A MULTI CONDUCTOR COMPOSITE ACCESS CONTROL CABLE AS SPECIFIED RUN IN CABLE TRAY FROM CARD READER CONTROLLER/POWER SUPPLY TO JUNCTION BOX ABOVE DOOR.
9	6C#22 SHIELDED IN 21MM CONDUIT TO CARD READER.
10	2C#22 UNSHIELDED IN 21MM CONDUIT TO RTE PUSH BUTTON
11	4C#22 UNSHIELDED TO ELECTRIC STRIKE.
12	4C#22 UNSHIELDED TO DOOR POSITION SWITCH.
13	21MM CONDUIT RUN INTO DOOR FRAME.

- SEQUENCE OF OPERATION (DURING SCHEDULED LOCKED PERIODS)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS LOCKED BY ELECTRIC DOOR STRIKE
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS LOCKED UNTIL REQUEST TO EXIT DEVICE IS ACTIVATED. ONCE ACTIVATED DOORS WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR. DOOR RELOCKS.
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
WHEN CARD READER CONFIRMS CREDENTIAL THE ACTIVATED DOOR WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR. DOOR RELOCKS.

- SEQUENCE OF OPERATION (DURING SCHEDULED UNLOCKED PERIOD)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS UNLOCKED BY ELECTRIC DOOR STRIKE THROUGH A PRESET TIMING FUNCTION ON THE ACCESS CONTROL SYSTEM.
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE

2 | DOOR 101.2, 109.1, 109.2 AND 109.3 ACCESS CONTROL DETAIL
E-7 | NTS




ACCESS CONTROL DETAIL - 118.2	
1	CARD READER CONTROLLER/POWER SUPPLY LOCATED IN JANITOR ROOM 117
2	MULLION MOUNT CARD READER AS SPECIFIED. MOUNT ON LATCH SIDE OF DOOR FRAME.
3	MULLION MOUNT REQUEST TO EXIT DEVICE PUSH BUTTON AS SPECIFIED. MOUNT ON LATCH SIDE OF DOOR FRAME.
4	DOOR POSITION SWITCH AS SPECIFIED FLUSH MOUNTED IN DOOR AND DOOR FRAME. PROVIDE SINGLE SWITCH AT DOORS ALSO EQUIPPED WITH INTRUSION ALARM. PROVIDE SEPARATE CABLE TO EACH SYSTEM.
5	ELECTRIC STRIKE. REFER TO ARCHITECTURAL SPECIFICATION. STRIKE SUPPLIED AND INSTALLED BY HARDWARE DIVISION AND WIRED BY ELECTRICAL CONTRACTOR.
6	PROVIDE A 150MM X 150MM X 75MM JUNCTION BOX ABOVE FINISHED CEILING ON SECURE SIDE OF DOOR.
7	DOOR. REFER TO ARCHITECTURAL DETAILS AND HARDWARE SCHEDULE.
8	PROVIDE A MULTI CONDUCTOR COMPOSITE ACCESS CONTROL CABLE AS SPECIFIED RUN IN CONDUIT AND CABLE TRAY FROM CARD READER CONTROLLER/POWER SUPPLY TO JUNCTION BOX ABOVE DOOR.
9	6C#22 SHIELDED IN 21MM CONDUIT TO CARD READER MOUNTED ON DOOR FRAME
10	2C#22 UNSHIELDED IN 21MM CONDUIT TO RTE PUSH BUTTON
11	4C#22 UNSHIELDED TO ELECTRIC STRIKE MOUNTED IN DOOR FRAME.
12	4C#22 UNSHIELDED TO DOOR POSITION SWITCH MOUNTED IN DOOR FRAME.
13	27MM CONDUIT RUN INTO DOOR FRAME.

- SEQUENCE OF OPERATION (DURING SCHEDULED LOCKED PERIODS)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS LOCKED BY ELECTRIC DOOR STRIKE
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS LOCKED UNTIL REQUEST TO EXIT DEVICE IS ACTIVATED. ONCE ACTIVATED DOORS WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR. DOOR RELOCKS.
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
WHEN CARD READER CONFIRMS CREDENTIAL THE ACTIVATED DOOR WILL UNLOCK AND ALLOW PASSAGE THROUGH THE DOOR. DOOR RELOCKS.


- SEQUENCE OF OPERATION (DURING SCHEDULED UNLOCKED PERIOD)**
- NORMAL OPERATION**
DOOR IS CLOSED. DOOR IS UNLOCKED BY ELECTRIC DOOR STRIKE THROUGH A PRESET TIMING FUNCTION ON THE ACCESS CONTROL SYSTEM.
 - DOOR OPERATION WHEN GOING FROM SECURE SIDE TO PUBLIC SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE
 - DOOR OPERATION WHEN GOING FROM PUBLIC SIDE TO SECURE SIDE**
DOOR REMAINS UNLOCKED. DOOR CAN BE MANUALLY OPENED USING THE DOOR HARDWARE

3 | DOOR 118.2 ACCESS CONTROL DETAIL
E-7 | NTS



200 - 2300 DEWDNEY AVENUE
REGINA, SASKATCHEWAN
S4R 1H6
PH: 306.585.2400
FX: 306.585.2399
EM: office@kreate-arch.com
WEB: www.kreate-arch.com


KREATE ARCHITECTURE AND DESIGN LTD.



BROWNLEE BEATON KRETE
3811 PACIFIC STREET • REGINA • SK • S4S 0A9
TEL: (306) 585-8855 • FAX: (306) 585-8856

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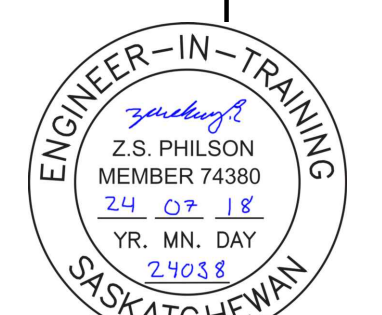
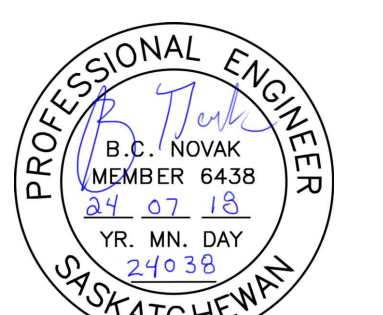
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Regina, Saskatchewan Fax: (306) 525-6369
S4T 1Z1 E-mail: hda@hdaeng.com



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ISSUE FOR BID 18 JUL 24

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CLIENT INFORMATION:

OKANESE FIRST NATION I.R. NO. 82
P.O. BOX 759
BALCARRES, SASKATCHEWAN
S0G 0C0

PROJECT TITLE:

PROPOSED CONSTRUCTION
AHSOR HEADSTART FACILITY
BALCARRES, SASKATCHEWAN

DRAWING TITLE:

ACCESS CONTROL SYSTEM
DOOR DETAILS

DRAWN BY: ZP/LP	CHECKED BY: BN	APPROVED:
SCALE: AS SHOWN	DATE: 18 JUL 24	DATE:
FILE NO:	DRAWING NO:	
22-117	E-7	

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