ALL ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE REFERENCED TO TOP OF

- MAIN FLOOR = 100.000 = 861.50 GEODETIC, UNLESS NOTED OTHERWISE. . ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF TENDER. . THE STRUCTURAL ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY AND ACCIDENT PREVENTION PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR OR ANY OTHER PERSON PERFORMING THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 4. THESE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE TRADE CONTRACTOR.
- 5. THE ENGINEER DOES NOT DO THE DESIGN OR FIELD REVIEW OF EXCAVATION, BACKFILL, OR 6. ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE CONFIRMED WITH
- ARE TO BE REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING 7. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL UNDERGROUND SERVICES SHALL BE IDENTIFIED BY THE GENERAL CONTRACTOR. IN THE EVENT OF CONFLICT WITH NEW CONSTRUCTION CONTACT THE CONSULTANT FOR INSTRUCTION ON HOW TO PROCEED. 8. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. THE FOLLOWING

ARCHITECTURAL DRAWINGS PRIOR TO IMPLEMENTING THE WORK AND ANY INCONSISTENCIES NOTED

- COMPONENTS REQUIRE DELEGATED DESIGN: CONCRETE MIX DESIGNS, GROUT & MORTAR MIX DESIGN. STRUCTURAL STEEL CONNECTIONS, CHILLER SUPPORT FRAME, OPEN WEB STEEL JOISTS, STEEL DECK AND WIND BEARING STEEL STUDS. 8.1. THE CONSULTANT'S STRUCTURAL ENGINEER OF RECORD, BPTEC ENGINEERING LTD., (THE
- DELEGATOR) SHALL PROVIDE THE DESIGN CRITERIA, SPECIFICATION, AND RELEVANT INFORMATION FOR DESIGN BY OTHERS (THE DELEGATEE) 8.2. ANY REPORTS, DESIGNS AND SHOP DRAWINGS PRODUCED BY THE DELGATEE SHALL BE SIGNED AND SEALED BY THE DELEGATEE'S REGISTERED PROFESSIONAL ENGINEER (HOLDER
- OF ALBERTA P. ENG. STAMP) WHO WILL BE RESPONSIBLE FOR THE DELEGATEE'S WORK. 8.3. THE DELEGATOR IS STILL REQUIRED TO REVIEW THE SUBMISSION FROM THE DELEGATEE AND PROVIDE IN WRITING TO THE OWNER THAT THE DELEGATED COMPONENT OR SYSTEM DESIGN HAS BEEN REVIEWED AND CONFORMS TO THE PROJECT REQUIREMENTS AND SPECIFICATIONS AND THAT IT CAN BE INTEGRATED INTO THE BUILDING SYSTEM.
- 9. THE DELEGATOR IS NOT REQUIRED TO INDEPENDENTLY SIGN AND SEAL THE DELEGATEE'S WORK PRODUCT, SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.

10. THE CONTRACTOR SHALL COOPERATE WITH ALL TESTING, INSPECTION, AND QUALITY CONTROL

- PERSONNEL REQUIRED ON THE SITE AND SHALL PROVIDE CASUAL LABOR FORCES AS REQUIRED TO ASSIST IN ALL THE FIELD REVIEW PROCEDURES. THE CONTRACTOR SHALL GIVE REASONABLE (48 HOURS) NOTICE TO THESE AGENCIES PRIOR TO REQUIRING THEIR SERVICES. 11. DETAILS OF TOP OF FOUNDATIONS, WINDOWS, DOORS, THRESHOLDS, ETC. ARE TO BE CONFIRMED WITH ARCHITECTURAL DETAILS AND/OR MANUFACTURER'S SHOP DRAWINGS. PROVIDE ALL
- NECESSARY BUCKS, REGLETS, NAILERS, BUILT-IN FIXINGS, ETC. AS REQUIRED. 12. STRUCTURAL SECTIONS AND DETAILS ARE INTENDED TO SHOW, PRIMARILY, STRUCTURAL DETAILS OF SUPPORT AND FIXING OF STRUCTURAL MEMBERS. WHERE DETAILS OF WALL AND ARCHITECTURAL TREATMENTS AND FINISHES ARE INDICATED OR SHOWN ON THE STRUCTURAL DRAWINGS THEY ARE TO BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS AND ADJUSTED
- 13. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS. OPENINGS, SLEEVES, ETC. INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. 14. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVING LOAD BEARING MEMBERS
- UNLESS NOTED OTHERWISE.
- <u>DESIGN REQUIREMENTS:</u>
 1. DESIGN: TO NATIONAL BUILDING CODE 2015. 2. DESIGN STANDARDS USED FOR DESIGN ARE: DESIGN OF STEEL STRUCTURES, CSA S16-14 CSA A23.3-14 DESIGN OF CONCRETE STRUCTURES. CSA S304-14 DESIGN OF MASONRY STRUCTURES, CSA S136-16

ACCORDINGLY

- NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. 3. ALL LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED, U.N.O.
- . CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS NOTED IN TABLES AND ON DRAWINGS. . IMPORTANCE CATEGORIES PER NATIONAL BUILDING CODE 2015: - MAIN BUILDING: POST DISASTER. OUTBUILDINGS: NORMAL.

		IMPORTANCE FACTOR FOR				
		MAIN BUILDING		OUTBUILDING		
		ULS	SLS	ULS	SLS	
	SNOW LOAD, I _S	1.25	0.9	1.0	0.9	
	WIND LOAD, I _W	1.25	0.75	1.0	0.75	
	EARTHQUAKE LOADS AND EFFECTS, I _E	1.50	-	1.0	-	
6.	SNOW LOADS PER NATION	NAL BUILDII	NG CODE	2015 FOR	COALDALE,	AB:

- GROUND SNOW LOAD: Ss (1/50) = 1.20 kPa, ASSOCIATED RAIN LOAD Sr (1/50) = 0.10 kPa.
- . WIND LOADS PER NATIONAL BUILDING CODE 2015 FOR COALDALE, AB: HOURLY WIND PRESSURE q (1/10) = 0.50 kPa, HOURLY WIND PRESSURE q (1/50) = 0.65 kPa,
- INTERNAL PRESSURE COEFFICIENT: Cpi = -0.7 TO +0.7. SEISMIC DATA PER NATIONAL BUILDING CODE 2015 AND GEOTECHNICAL REPORT NO.: LE0114, PRODUCED BY PARKLAND GEOTECHNICAL CONSULTING LTD. Sa(0.2) = 0.14, Sa(0.5) = 0.09, Sa(1.0) = 0.04, Sa(2.0) = 0.03, PGA = 0.09. Rd = 1.5, $R_0 = 1.5$ FOR MASONRY STRUCTURES. Rd = 1.5, $R_0 = 1.3$ FOR STEEL STRUCTURES,
- SITE CLASS: D 9. RAIN PONDING LOADS HAVE BEEN CALCULATED BASED ON ROOF SLOPES, PARAPETS, AND SCUPPERS ASSUMING THAT ALL DRAINS ARE ACCIDENTALLY PLUGGED FOR A PERIOD OF 24 HOURS AND A RAINFALL OF 85mm. 10. DESIGN LOADS PER NATIONAL BUILDING CODE 2015:
 - 10.1 DEAD LOADS: THE DEAD LOADS FOR THE STRUCTURAL MEMBERS SHALL BE DETERMINED FROM a) THE WEIGHT OF THE MEMBER ITSELF, b) THE WEIGHT OF ALL MATERIALS OF CONSTRUCTION INCORPORATED INTO THE BUILDING
 - SUPPORTED PERMANENTLY BY THE MEMBER, c) THE WEIGHT OF PARTITIONS, AND d) THE WEIGHT OF PERMANENT EQUIPMENT.
 - THE MATERIAL WEIGHT ALLOWANCE REFERRED TO IN SENTENCE b) SHALL
 - BE 0.5 kPa FOR ALL FLOORS AND ROOFS. - THE PARTITION ALLOWANCE REFERRED TO IN SENTENCE c) SHALL BE 1.0 kPa FOR ALL FLOORS.
 - THE PERMANENT EQUIPMENT WEIGHT ALLOWANCE REFERRED TO IN SENTENCE d) SHALL BE 1.0 kPa FOR THE ROOF.
 - FOR PERMANENT EQUIPMENT WEIGHT ALLOWANCE REFERRED TO IN SENTENCE d) FOR ROOF TOP UNITS SEE MECHANICAL.
 - 10.2 LIVE LOADS: MAIN FLOOR (FOR ROOM NUMBERS SEE ARCHITECT):
 - RECORD STORAGE (ROOM 108): 9.6 kPa, - GARAGE BAYS, SECURE BAY (ROOMS 002, 130, 140, 141, 150, 153, AND
 - 154, INCL. APRONS): 6 kPa OR 36 kN CONCENTRATED. - MECHANICAL (ROOM 182): 3.6 kPa,
 - ALL OTHER AREAS (INCL. DOOR STOOPS): 4.8 kPa OR 9 kN CONCENTRATED.
 - ALL AREAS: 1.0 kPa OR 1.3 kN CONCENTRATED, - SNOW LOAD: SEE DRAWINGS
 - WIND LOAD: SEE DRAWINGS. - PONDING: SEE DRAWINGS.
- CAP SLABS: - ALL AREAS: 1.0 kPa. 1. SERVICEABILITY CRITERIA:

REINFORCING STEEL:

- THE TOTAL DRIFT PER STORY UNDER SERVICE WIND AND GRAVITY LOADS SHALL NOT EXCEED 1/500 OF THE STOREY HEIGHT. THE LARGEST INTERSTORY DEFLECTION AT ANY LEVEL UNDER EARTHQUAKE LOADS SHALL BE SEISMIC FORCE RESISTING SYSTEM: CONVENTIONAL CONSTRUCTED MASONRY SHEAR WALLS WITH ROOF
- FOUNDATIONS ARE TO BE CONSTRUCTED WITH REFERENCE TO GEOTECHNICAL REPORT No.
- LE0114, PRODUCED BY PARKLAND GEOTECHNICAL CONSULTING LTD., DATED JULY 14, 2017. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING FOUNDATION WORK. 2. UNDER STRUCTURAL FLOOR SLABS: SUPPLY, PLACE AND COMPACT FILL SUFFICIENTLY TO
- SUPPORT SLAB UNTIL IT HAS REACHED ITS DESIGN STRENGTH. COORDINATE WITH CIVIL 3. CAST-IN-PLACE PILES - RESISTANCE VALUES: FACTORED SKIN FRICTION FACTORED END BEARING CAPACITY RESISTANCE 0 kPa 0 kPa CLAY/UPPER TILL (1.5m-4.5m) 20 kPa 0 kPa
- UPPER TILL (4.5m-8.0m) 280 kPa LOWER TILL (BELOW 8.0m) 24 kPa 440 kPa ALL PILE EXCAVATIONS REQUIRING AN OPEN HOLE SHALL BE THOROUGHLY CLEANED AND VISUALLY INSPECTED PRIOR TO POURING OF THE CONCRETE TO ENSURE A SATISFACTORY BASE HAS BEEN ACHIEVED. NO SLOUGH OR DISTURBED MATERIAL SHALL BE ALLOWED TO REMAIN IN
- THE PILE EXCAVATIONS. 5. PILES TO BE INSPECTED BY A CONTRACTOR RETAINED GEOTECHNICAL ENGINEER DURING PILING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PUMPING AND CASING REQUIRED TO ENSURE PROPER INSTALLATION OF THE PILE FOUNDATION.
- REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AND PREPARE THE SUB-GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. REMOVE GROUND WATER ENTERING EXCAVATIONS BY APPROVED DEWATERING METHOD. DO NOT CAST CONCRETE ON FROZEN GROUND. THAW BY AN APPROVED METHOD, PROTECT FXCAVATIONS FROM FREEZING PRIOR TO PLACING CONCRETE, PROTECT FXCAVATIONS TO
- 10. PROVIDE VOID FORM BELOW ALL GRADE BEAMS, PILE CAPS, AND WHERE SHOWN ON THE DRAWINGS PRIOR TO INSTALLATION OF REINFORCEMENT. 11. ENSURE VOID FORM IS IN PLACE PRIOR TO BACK FILLING GRADE BEAMS AND PILE CAPS. 12. UNLESS OTHERWISE SHOWN ON PLAN, FOUNDATION ELEMENTS ARE TO BE CENTERED UNDER

PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.

- WALLS, GRADE BEAMS, AND COLUMNS. 13. ENSURE STABILITY OF GRADE BEAMS UNTIL LATERAL SUPPORT, SUCH AS THAT PROVIDED BY SLABS ON GRADE, IS IN PLACE.
- CONCRETE:

 1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA A23.1. 2. ALL CONCRETE TESTING TO BE DONE IN ACCORDANCE WITH CSA A23.2 BY AN OWNER
- APPROVED AGENCY. SUBMIT PROPOSED MIX DESIGN FOR REVIEW PRIOR TO COMMENCING WORK. 4. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR HOUSEKEEPING PAD SIZES AND LOCATIONS. REINFORCE AS PER TYPICAL DETAIL ON DWG. SO.5.
- CONFIRM EXTENT OF RAISED OR DEPRESSED SLABS, SLOPES AND TRENCHES WITH ARCHITECTURAL AND MECHANICAL. REINFORCEMENT TO BE INSPECTED BEFORE CONCRETE IS PLACED. NOTIFY THE ENGINEER A
- MINIMUM 48 h PRIOR TO POURS, TO ALLOW TIME TO SCHEDULE INSPECTIONS. 7. REFER TO SCHEDULE ON THIS SHEET FOR CONCRETE MIX SPECIFICATIONS.

- 1. ALL REINFORCING SHALL CONFORM TO CSA G30.18 GRADE 400R. PROVIDE WELDABLE REBAR WHERE REQUIRED AT CONNECTIONS - GRADE 400W.
- DETAIL IN ACCORDANCE WITH ACI 315 MANUAL OF STANDARD PRACTICE. SUBMIT SHOP DRAWINGS AND DETAILS OF REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER. TYPICAL BEAM REINFORCEMENT: UNLESS OTHERWISE NOTED, TOP REINFORCEMENT TO BE CONTINUOUS OVER SUPPORTS; SPLICE MID-SPAN. BOTTOM REINFORCEMENT TO BE CONTINUOUS

BETWEEN SUPPORTS, AND SPLICED AT OR NEAR SUPPORTS, HOOK MINIMUM TWO BOTTOM BARS

AT ENDS IF BEAM DOES NOT TERMINATE AT AN INTERSECTION. REFER TO SCHEDULE ON THIS SHEET FOR MINIMUM BAR LAP LENGTH. REFER TO SCHEDULE ON THIS SHEET FOR CONCRETE COVER TO REINFORCING.

- STRUCTURAL SLAB ON GRADE:

 1. HOOK TOP BARS AT ALL DISCONTINUOUS EDGES OF SLAB UNLESS NOTED OTHERWISE 2. PLACE ADDITIONAL BARS AND ADDITIONAL TOP MATS HALFWAY BETWEEN UNIFORMLY DISTRIBUTED BARS, UNLESS NOTED OTHERWISE. 3. EXTERIOR SLABS SHALL BE PLACED ON 10mm OSB ON 100mm VOIDFORM (REFER TO
- SPECIFICATIONS). 4. INTERIOR SLABS SHALL BE PLACED ON 381 µm VAPOUR BARRIER ON 10mm OSB ON 100mm VOID FORM ON 150mm RADON ROCK ON GEOTEXTILE.

STRUCTURAL STEEL: 1. STRUCTURAL STEEL SHALL CONFORM TO:

- ROLLED SECTIONS TO CSA G40.21, GRADE 350W - PLATES TO CSA G40.21, GRADE 300W.
- HOLLOW STRUCTURAL SECTIONS TO CSA-G40.21, GRADE 350W, CLASS C. - BOLTS TO ASTM F3125 / F3125M, GRADE A325 / A325M
- NUTS TO ASTM A563 / A563M - ANCHOR BOLTS TO ASTM A307 / ASTM F1554
- NELSON STUDS TO ASTM A108 2. ALL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH CSA S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL. 3. ALL WELDING SHALL BE ARC WELDING CONFORMING TO CSA W59 AND TO THE REQUIREMENTS
- PROVIDE WRITTEN CONFIRMATION OF CERTIFICATION BY THE CANADIAN WELDING BUREAU. WHERE SPECIFIED STRUCTURAL BEAM SIZES ARE NOT AVAILABLE. AN APPROVED SUBSTITUTION OF GREATER WEIGHT WITH SAME NOMINAL DEPTH SHALL BE PROVIDED AT NO ADDITIONAL COST TO

OF CSA W47.1, DIVISION 1 OR 2 MINIMUM. STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL

- THE OWNER. 5. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. THE SHOP PROFESSIONAL ENGINEER SHALL SEAL SHOP DRAWINGS SHOWING WORK DESIGNED BY THE
- FABRICATOR. 6. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA.
- UNLESS NOTED OTHERWISE, DESIGN CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR FORCE EQUAL TO THE MAXIMUM UNIFORMLY DISTRIBUTED BEAM LOAD TABULATED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION, AND FOR PASS THROUGH FORCES AS NOTED ON DRAWINGS.
- 8. GIRT CONNECTIONS TO BE DESIGNED FOR THE MAXIMUM TOTAL UNIFORMLY DISTRIBUTED FACTORED LOAD APPLIED TO THE STRONG AXIS OF THE MEMBER.
- 10. DESIGN BRACE CONNECTIONS FOR THE LOADS SHOWN ON THE DRAWINGS. 11. PROVIDE A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS. 12. ALL BOLTED CONNECTIONS TO USE SNUG-TIGHTENED HIGH-STRENGTH BOLTS UNLESS OTHERWISE
- NOTED ON THE DRAWINGS. 13. UNLESS OTHERWISE SHOWN, PROVIDE 10 mm PLATE STIFFENERS WHERE BEAMS RUN OVER COLUMNS AND AT OTHER CONCENTRATED LOADING POINTS.
- 14. STRUCTURAL STEEL SHALL BE INSPECTED BY CONTRACTOR-RETAINED INSPECTION SERVICES. 15. ALL STEEL OUTSIDE BUILDING ENVELOPE (AIR/VAPOUR BARRIER MEMBRANE) SHALL BE GALVANIZED (EXCEPT CANOPIES).

16. PROVIDE EXPANSION JOINT AT PERIMETER DECK ANGLE / PERIMETER CANOPY CHANNEL WITH SLOTTED HOLES @ 6000 MAX.

- **OPEN WEB STEEL JOISTS:** 1. DESIGN OPEN WEB STEEL JOISTS TO CSA S16 FOR DEAD LOADS AND LIVE LOADS INDICATED IN TABLES AND ON THE DRAWINGS. ACCOMMODATE POINT LOADS OF MECHANICAL UNITS AND HANGERS.
- 2. STEEL JOIST CHORD SECTIONS MAY BE OF HIGHER STRENGTH STEEL BUT AT LEAST EQUAL TO CSA G40.21 GRADE 350W 3. AVOID POSSIBLE CONFLICTS AT JOISTS PARALLEL TO BLOCK WALLS BY MAINTAINING A DISTANCE
- OF MINIMUM 300mm BETWEEN CENTERLINE OF WALL AND CENTERLINE OF JOIST. 4. IF SHOE DEPTH USED VARIES FROM DETAILS INDICATED ON THE DRAWINGS COORDINATE ADJUSTMENTS TO THE STRUCTURAL STEEL ELEVATION WITH THE STRUCTURAL STEEL CONTRACTOR
- 5. JOISTS TO BE CAMBERED FOR DEAD LOADS. UNLESS NOTED OTHERWISE, LIMIT DEFLECTION FOR JOISTS TO: L/240 TOTAL SERVICE, L/360 LIVE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. THE SHOP
- PROFESSIONAL ENGINEER SHALL SEAL SHOP DRAWINGS SHOWING WORK DESIGNED BY THE '. ALL POINT LOADS ON JOISTS TO OCCUR ONLY AT PANEL POINTS. INDICATE ALL POINT LOADS ON
- 8. JOISTS TO BE DESIGNED FOR AN ADDITIONAL SPECIFIED POINT LOAD OF 5 KN APPLIED AT ANY PANEL POINT ALONG THE JOIST. JOISTS FABRICATED BY MEANS OF RESISTANCE WELDING TECHNIQUES ARE NOT ACCEPTABLE.
- 10. LINE UP WEB OPENINGS WHERE REQUIRED FOR DUCT RUNS. REFER TO MECHANICAL 11. ALL WELDING TO CONFORM TO CSA W59 AND TO BE DONE BY CWB APPROVED WELDERS.

FABRICATOR AND ERECTOR SHALL BE CERTIFIED TO CSA W47.1 DIVISION 1 OR 2.

STEEL DECK: 1. ROOF DECK SHALL BE 38mm DECK WITH 0.76 mm MIN. THICKNESS U.N.O. AND SHALL BE

- DESIGNED BY FABRICATOR TO CSA S136. 2. STEEL SHALL CONFORM TO ASTM A653M, AND SHALL BE MINIMUM GRADE 230. DECK SHALL BE GALVANIZED TO ZF75. 3. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. THE SHOP'S
- PROFESSIONAL ENGINEER SHALL SEAL SHOP DRAWINGS SHOWING WORK DESIGNED BY THE
- 4. PROVIDE NECESSARY DECK GAUGE FOR SNOW LOAD AND BUILDUP. 5. UNLESS NOTED OTHERWISE, LIMIT DEFLECTION FOR DECK TO: L/240 TOTAL SERVICE LOAD,
- L/360 LIVE LOAD. RUN DECK CONTINUOUSLY OVER 4 SUPPORTS MINIMUM UNLESS NOTED OTHERWISE.
- FASTEN OVERLAP SEAMS AT 300 mm ON CENTRE OR AS NOTED ON DRAWINGS. PROVIDE 20mmø PUDDLE WELDS @ 300 mm ON CENTRE AT EVERY SUPPORT, AT EDGES, AND AT SHEAR TRANSFER ELEMENTS OR AS NOTED.
- 9. WHERE PUDDLE WELD SPACING IS NOTED ON THE DRAWINGS, HILTI POWDER ACTUATED FASTENERS MAY BE SUBSTITUTED AT A RATIO OF THREE FASTENERS FOR EVERY TWO PUDDLE
- 10. FRAME AROUND OPENINGS AS SHOWN ON TYPICAL DETAIL ON DRAWING SO.4, OR APPROVED 11. PROVIDE AND INSTALL ALL NECESSARY DECK FITMENTS.

ALL MASONRY WORK SHALL CONFORM TO CSA S304, CSA A371 AND TO DETAILS SHOWN

- ON DRAWINGS. 2. MASONRY BLOCK UNITS SHALL CONFORM TO CSA A165, CLASSIFICATION H/15/C/M WITH A MINIMUM UNIT STRENGTH OF 15 MPa, U.N.O.
- 3. ALL MORTAR SHALL CONFORM TO CSA A179 AND SHALL BE TYPE 'S' UNLESS NOTED 4. PLACE MASONRY UNITS IN RUNNING BOND, U.N.O. USE FACE SHELL BEDDING EXCEPT
- FIRST COURSES AND CELLS TO BE GROUTED WHERE FULL BED MORTARING IS TO BE USED. 5. ALL VERTICAL REINFORCING TO BE DOWELED TO STRUCTURE BELOW. DOWELS TO MATCH VERTICAL REINFORCING LOCATION.

6. PROVIDE A MINIMUM 200mm DEEP LINTEL AND A 200 DEEP BOND BEAM SILL REINFORCED WITH

- 1-15M CONTINUOUS ABOVE AND BELOW ALL OPENINGS UNLESS NOTED. RUN ALL LINTELS 200mm PAST OPENINGS EACH SIDE UNLESS NOTED. 8. PROVIDE A MINIMUM 200mm DEEP BOND BEAM REINFORCED WITH 1-15M AT THE TOP AND
- BOTTOM OF ALL WALLS, U.N.O. 9. PROVIDE 1-15M VERTICAL REINFORCING AT OPENINGS; ENDS, CORNERS, AND INTERSECTIONS OF WALLS; AND ON BOTH SIDES OF CONTROL JOINTS IN ALL NON-LOAD BEARING WALLS.
- 10. PROVIDE MIN 1-15M@1200 O.C. VERTICAL REINFORCING IN ALL EXTERIOR AND INTERIOR NON-LOAD BEARING WALLS EXCEEDING 4m IN HEIGHT, U.N.O. PROVIDE MIN 1-15M@800 O.C. VERTICAL REINFORCING IN ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS EXCEEDING 4m IN HEIGHT, U.N.O. 11. PROVIDE 3.66mm TWO WIRE LADDER JOINT REINFORCING @ 600 O.C. FOR WALLS
- CONSTRUCTED IN RUNNING BOND AND @ 400 O.C. FOR WALLS CONSTRUCTED IN STACK PATTERN. U.N.O. 12. SEE ELEVATIONS FOR CONTROL JOINT LOCATIONS IN LOAD BEARING WALLS.
- 13. PROVIDE A CONTROL JOINT EVERY 6m MAXIMUM, AT CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS. AND AT ONE SIDE OF OPENINGS IN NON-LOAD BEARING WALLS. U.N.O. 14. WHERE WALLS SUPPORTED BY SLAB ON GRADE ABUT OR INTERSECT WALLS SUPPORTED ON STRUCTURAL ELEMENTS SUCH AS GRADE BEAMS, FOUNDATION WALLS, OR STRUCTURAL SLABS:
- PROVIDE A CONTROL JOINT. 15. STOP JOINT REINFORCING AT CONTROL JOINTS. BOND BEAM REINFORCING TO BE CONTINUOUS THROUGH CONTROL JOINTS. 16. GROUT FILL ALL BEARING POCKETS AFTER ERECTION OF STEEL IS COMPLETE.

STEEL STUDS: 1. STEEL STUD SUPPLIER TO DESIGN AND PROVIDE SHOP DRAWINGS FOR WIND-BEARING STEEL STUDS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ALBERTA. 2. THE DESIGN WIND LOAD FOR 400mm STUD SPACING IS:

17. LIMIT DEFLECTION FOR MEMBERS SUPPORTING MASONRY TO L/480 TOTAL, L/720 LIVE.

ULS: -2.55 kPa TO 2.31 kPa FOR ZONE E, AND -2.34 kPa TO 2.31 kPa FOR ZONE W, SLS -1.53 kPa TO 1.39 kPa FOR ZONE E. AND -1.40 kPa TO 1.39 kPa FOR ZONE W.

MISCELLANEOUS:

WITH AN END-ZONE WIDTH Z OF 2.2m AS PER FIGURE 4.1.7.6.-B OF THE NATIONAL BUILDING 3. THE DESIGN WIND LOAD FOR STUDS SUPPORTING CANOPY SOFFITS IS -2.0 kPa (UPLIFT).

CHILLER SUPPORT FRAME: 1. FABRICATOR TO LAY OUT, DESIGN AND DETAIL A CHILLER SUPPORT FRAME WITHIN DESIGNATED

- AREA SHOWN ON DRAWING S1.4 TO CARRY THE CHILLER SELECTED BY THE CONTRACTOR BASED AFTER SELECTION OF CHILLER MANUFACTURER. CONTRACTOR TO COORDINATE CHILLER SUPPORT FRAME DESIGN AND LOCATION WITH ARCHITECT, MECHANICAL ENGINEER, ELECTRICAL ENGINEER.
- AND STRUCTURAL ENGINEER. DESIGN CHILLER SUPPORT FRAME TO CSA S16 FOR DEAD LOADS AND LIVE LOADS INDICATED IN TABLES. ON DRAWINGS, AND IN CHILLER SPECIFICATIONS IN ACCORDANCE WITH GENERAL NOTES FOR STRUCTURAL STEEL AND OPEN WEB STEEL JOISTS.
- 4. CHILLER SUPPORT FRAME TO BE DESIGNED AS A MOMENT FRAME (NO BRACING) FOR UNRESTRICTED ACCESS UNDER CHILLER. COLUMS TO BE SQUARE HSS. CHILLER SUPPORT FRAME DESIGN SHALL INCLUDE BEAMS AND/OR JOISTS AT ROOF ELEVATION TO TRANSFER LOADS INTO BLOCK WALLS.
- 6. CHILLER SUPPORT FRAME TO BE SUPPORTED BY BLOCK WALLS ON GRID LINES G', J AND H AS . CHILLER SUPPORT FRAME TO BE DESIGNED INDEPENDENTLY FROM ALL ROOF FRAMING SHOWN ON DRAWING S1.4. ALTERNATIVELY. ROOF BEAMS AND/OR JOISTS AS SHOWN ON DRAWING S1.4 MAY BE ALTERED/STRENGTHENED BY FABRICATOR AS REQUIRED TO SUPPORT ADDITIONAL LOADS
- FROM CHILLER SUPPORT FRAME. . MAXIMUM DEPTH OF NEW OR ALTERED/STRENGTHENED ROOF BEAMS AND/OR JOISTS SHALL NOT EXCEED THE DEPTH OF ADJACENT BEAMS AND JOISTS SHOWN ON \$1.4. 9. MINIMUM CLEARANCE BETWEEN FINISHED ROOF AND UNDERSIDE OF CHILLER SUPPORT FRAME TO

10. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. THE SHOP PROFESSIONAL ENGINEER SHALL SEAL SHOP DRAWINGS SHOWING WORK DESIGNED BY THE

1. CONFIRM SIZE AND LOCATION OF MECHANICAL AND ELECTRICAL OPENINGS WITH RESPECTIVE CONTRACTORS. . PROVIDE THERMAL SEPARATION OF NON-COMPRESSIBLE BLOCK (SCHOCK ISOKORB THERMAL INSULATION BLOCK OR EQUIVALENT TO MATCH INSULATION LOCATION) ON ALL THERMAL SEPARATION CONNECTIONS.

CONCRETE MIX SPECIFICATIONS SCHEDULE								
COMPONENT	EXPOSURE CLASS	MINIMUM COMP. STRENGTH AT 28/56 DAYS (MPa)	CEMENT TYPE	AIR CONTENT RANGE (%)	SLUMP RANGE * (mm)	MAX NOMINAL AGGREGATE SIZE (mm)	MAX. W/CM RATIO	CLEAR COVER TO REINF.** (mm)
PILES	S-2	- / 35	HS	5-8	70-100	20	0.40	75
GRADE BEAMS, PILE CAPS AND PILASTERS	S-2	- / 35	HS	5-8	60-90	20	0.40	40
INTERIOR SLABS (MAIN BUILDING)	N	30 / -	GU	-	50-80	20	0.45	20
INTERIOR SLABS (OUT BLDG) EXTERIOR SLABS,*** SUMPS, PITS	C-1	- / 35	GU	5-8	60-90	20	0.40	60 TOP 20**** OTHERWISE
CONCRETE COLUMN	N	30 / -	GU	-	60-90	20	0.45	30
EXTERIOR WALLS	C-1	- / 35	GU	5-8	60-90	20	0.40	60
ELECTRICAL DUCT	N	20 / -	GU	4-7	60-90	20	0.55	-
MAY OLUMB MAY DE INODEACED DEVOND ODECIEED DANCE BY LICE OF ADDROVED								

* MAX SLUMP MAY BE INCREASED BEYOND SPECIFIED RANGE BY USE OF APPROVED ADMIXTURES

** MEASURED TO TIES IF APPLICABLE. IF COMPONENT APPLIES TO MULTIPLE CATEGORIES THE MOST STRINGENT COVER REQUIREMENTS APPLY.

*** INCLUDING DOOR STOOPS AND APRONS **** 40 IF PERMANENTLY EXPOSED TO EARTH

BOND BEAM SCHEDULE				
MARK DEPTH * REINFO				
BB1	200	1-15M / -		
BB2	400	2-15M / 1-15N		
BB3	600	2-15M / 2-15N		

* BOND BEAMS SHALL NOT EXCEED

600mm IN DEPTH

MASONRY JAMB SCHEDULE				
OPENING WIDTH	JAMB REINFORCING			
0 TO 1200	1-15M IN ONE CORE EA. SIDE (U.N.O.)			
1201 AND GREATER	2-15M IN TWO CORES EA. SIDE (U.N.O.)			

MASONRY LINTEL SCHEDULE						
OPENING WIDTH	LINTEL DEPTH	REINFORCEMENT	STIRRUPS			
0 TO 1200	200	1-15M BOT				
1201 TO 2000	400	1-20M BOT 1-15M TOP	6mmØ @ 200			
2001 TO 3200	600	2-20M BOT 2-15M TOP	6mmØ @ 200			
JAMBS.		I COLUMN TO LINTEI				
KNOCK-OUT BLOCK 6mmø STIRRUPS BOND BEAM BLOCK						

STONE VENEER L	INTEL SCHEDULE
OPENING WIDTH	LINTEL
0 TO 2000	L89x89x9.5
>2000 *	L152x89x7.9

NOTE: EXTEND LINTEL 200 PAST OPENING

* FOR LINTEL SUPPORT SEE TYPICAL DETAIL

EACH END

X-AXIS - STRONG GEOMETRIC AXIS Af (Tf FOR TENSION ONLY) (Cf FOR COMPRESSION ONLY) MEMBER -**CONNECTION FORCE DIAGRAM**

CONCRETE REINFORCEMENT SPLICE SCHEDULE TENSION SPLICE (BAR DIAMETERS) OMPRESSION **BAR SIZE** SPLICE VERTICAL OR TOP (BAR BOTTOM HORIZONTAL DIAMETERS) HORIZONTAL BARS BARS

20101, 00101, 00101] 30 44		51			
MASONRY REINFORCEMENT SPLICE SCHEDULE						
DAD OIZE	COMPRESSION SPLICE (BAR DIAMETERS)	TENSION SPLICE (BAR DIAMETERS)				
BAR SIZE		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS			
≤ 20M	30	43	56			
25M	30	54	70			

NOTE 1: THESE TABLES ARE BASED ON fc = 30 MPa AND fgr = 20MPa. NOTE 2: TOP HORIZONTAL BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 300mm OF CONCRETE OR GROUT IS CAST IN THE MEMBER BELOW REINFORCEMENT. NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE OR GROUT

DIVIDE BASIC TENSION LAP SPLICE NUMBER BY 1.3.

STANDARD ABBREVIATIONS

A. ROD --- ANCHOR ROD

ARCH --- ARCHITECTURAL

CIP ---- CAST IN PLACE

CL ---- CENTRE LINE

CJ ---- CONTROL JOINT/

BUL ---- BOTTOM UPPER LAYER

BLL ---- BOTTOM LOWER LAYER

ALT ---- ALTERNATING

BOT ---- BOTTOM

BM ---- BEAM

CLR ---- CLEAR

DÉT ---- DETAIL

DO ---- DITTO

DP ---- DEEP

DN ---- DOWN

DWL ---- DOWEL

DWG ---- DRAWING

E.F. ---- EACH FACE

I ---- FI FVATION

ELEV. --- ELEVATION

ELEC ---- ELECTRICAL

E.S. ---- EACH SIDE

E.W. ---- EACH WAY

FO ---- FOLIAL

EXIST --- EXISTING

EXT ---- EXTERIOR

F.S. ---- FAR SIDE

GALV ---- GALVANIZED

HORIZ --- HORIZONTAL

H.P. ---- HIGH POINT

I.F. ---- INSIDE FACE

INT ---- INTERIOR

L.L. ---- LIVE LOAD

LOC'N --- LOCATION

h ---- HOUR(S)

LG ---- LONG

H1E ---- HOOK ONE EN

H2E ---- HOOK TWO ENDS

GL ---- GRID LINE

F.D. ---- FLOOR DRAIN

FDN ---- FOUNDATION

E.J. ---- EXPANSION JOINT

COL ---- COLUMN

CONC --- CONCRETE

CONT ---- CONTINUOUS

D.L. ---- DEAD LOAD

C/W ---- COMPLETE WITH

BTWN ---- BETWEEN

A.I.F.B. --- ASPHALT IMPREGNATED FIBER

CONSTRUCTION JOINT

LLBB ---- LONG LEG BACK TO BACK

LLH ---- LONG LEG HORIZONTAL LLV ---- LONG LEG VERTICAL

M.C. ---- MOMENT CONNECTION

o.c. ---- ON CENTRE. THIS IS IMPLIED

FOR EXAMPLE:

O.W.S.J. --- OPEN WEB STEEL JOIST

SLBB --- SHORT LEG BACK TO BACK

THROUGH

TLL ---- TOP LOWER LAYER

T.O.C. --- TOP OF CONCRETE

TUL ---- TOP UPPER LAYER

T&B ---- TOP AND BOTTOM

U.N.O ---- UNLESS NOTED OTHERWISE

T.O.S. ---- TOP OF STEEL

U/N ---- UNLESS NOTED

10M AT 200=10M AT 200 o.c.

L.P. ---- LOW POINT

L.W. ---- LONG WAY

MECH ---- MECHANICAL

N.S. ---- NEAR SIDE

NTS ---- NOT TO SCALE

O.F. ---- OUTSIDE FACE

R.D. ---- ROOF DRAIN

RÉINF ---- REINFORCING

STRUCT --- STRUCTURAL

STAG --- STAGGERED

S.W. ---- SHORT WAY

THD ---- THREADED

T.O. ---- TOP OF

TYP ---- TYPICAL

TJ ---- TIE JOIST

U/S ---- UNDERSIDE

W.P. ---- WORK POINT

VFRT ---- VFRTICAL

SYMM ---- SYMMETRICAL

STIR ---- STIRRUP

THK ---- THICK

THRU ----

S.O.G. --- SLAB ON GRADE

SPEC --- SPECIFICATIONS

SCHED --- SCHEDULE

SIM ---- SIMILAR

R/W ---- REINFORCED WITH

OPP ---- OPPOSITE

MAX ---- MAXIMUM

MIN ---- MINIMUM



Notes: Do not scale drawing

- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- * It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- * All dimensions are in mm unless noted otherwise.

Suite 200. 4220-98 Street NW Edmonton, AB T6E 6A1 www.bptec.ca Issues/Revisions No. Description 2019-01-09 JMcC O ISSUED FOR TENDER

PERMIT TO PRACTICE BPTEC ENGINEERING LTD. Signature _____ 2019 Jan 15 PERMIT NUMBER: P0132 The Association of Professional Engineers and Geoscientists of Alberta 2019-01-09

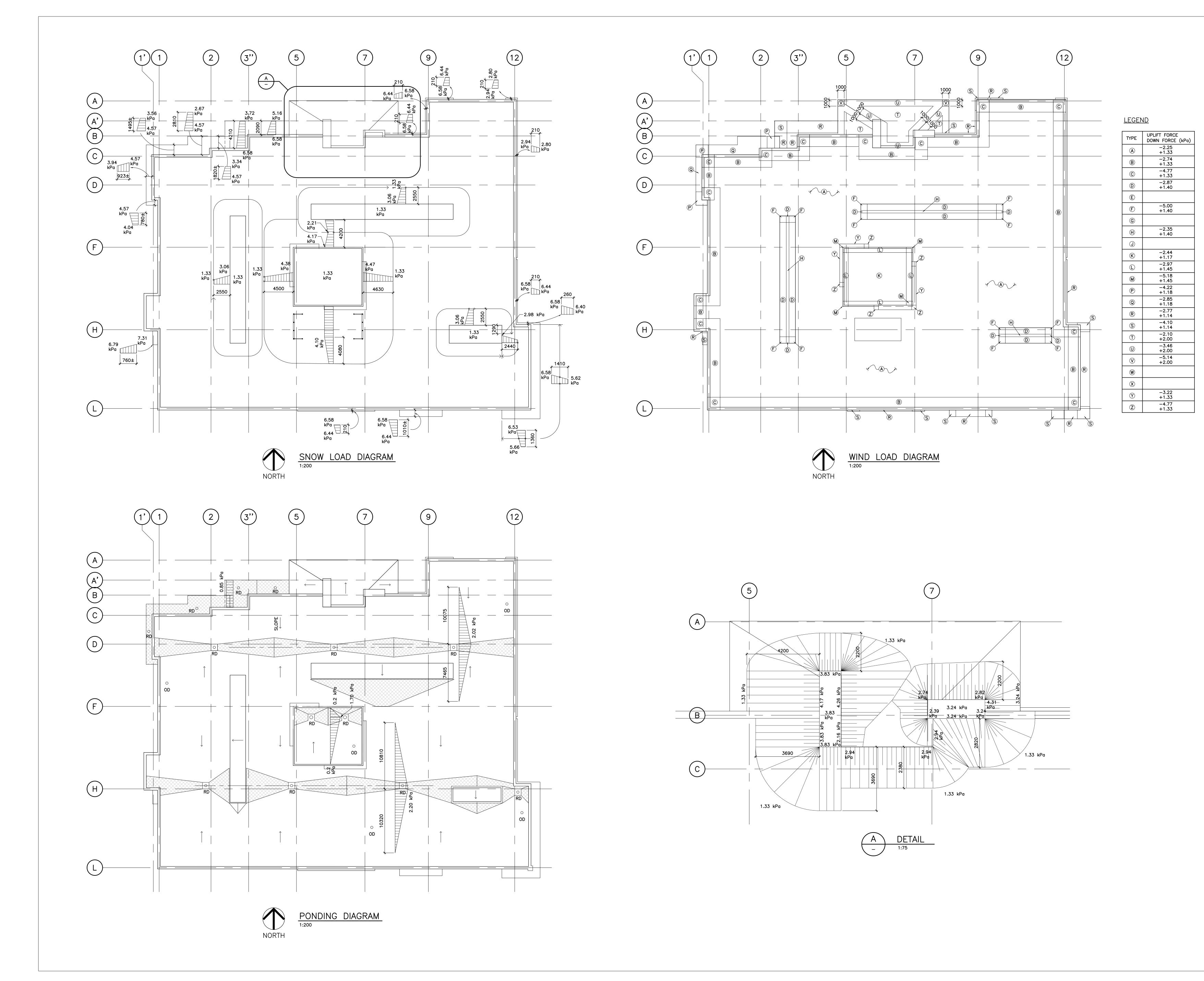
COALDALE PROTECTIVE SERVICES BUILDING

Designed By AS NOTED JMcC/RS Scale Project No. 9030 Drawn Bv 2019 JAN 09 Checked By

GENERAL NOTES

Drawing Title

Drawing No.





It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer

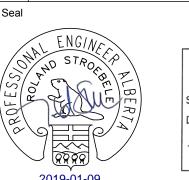
* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.

* All dimensions are in mm unless noted otherwise.



	No.	Description	Date	Ву				
	0	ISSUED FOR TENDER	2019-01-09	JMcC				
•								
•	Seal							



PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.

Signature

2019 Jan 15

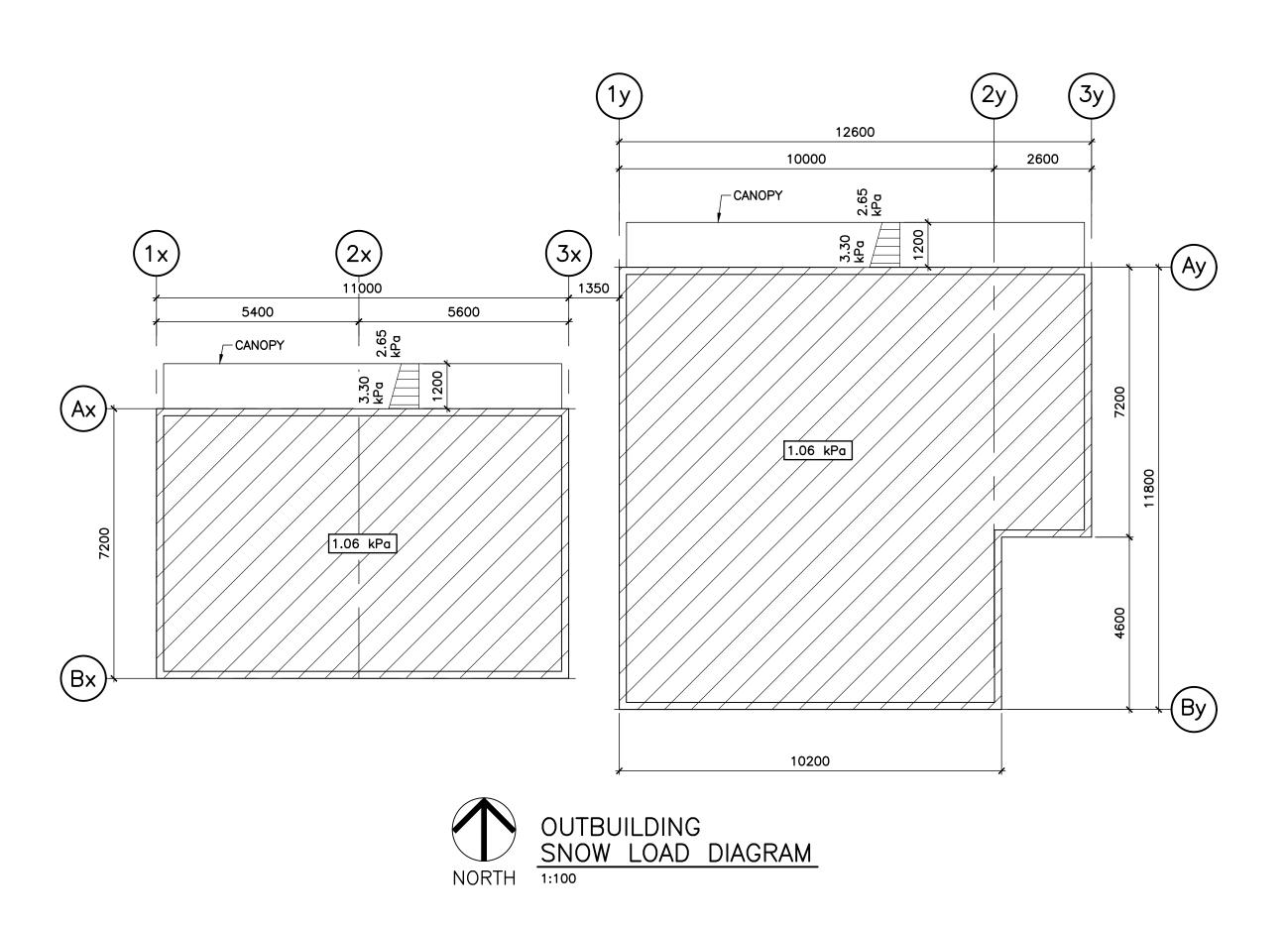
PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta

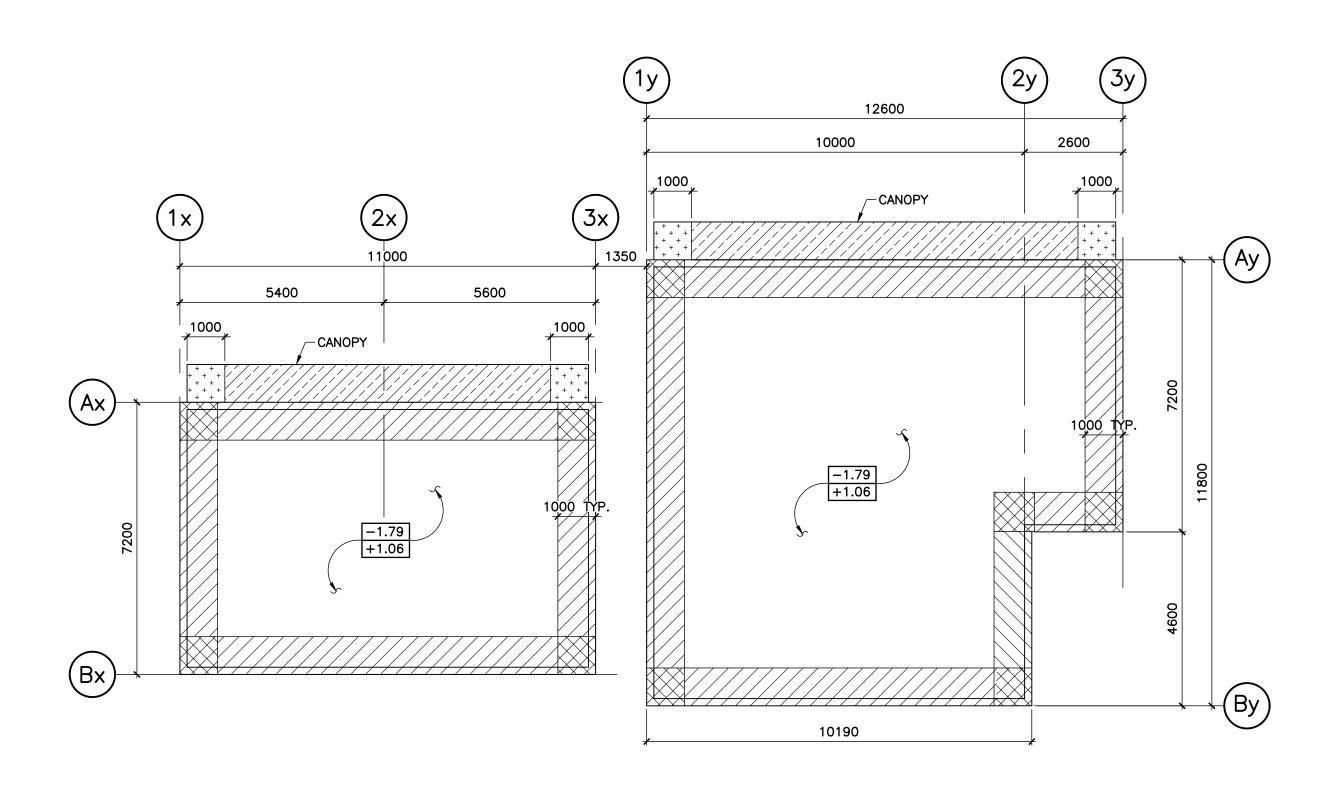
COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
			,	

LOAD DIAGRAMS SHEET 1

S0.2



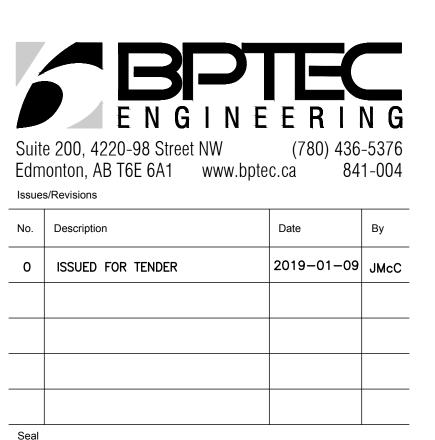


	OUTB	UILDIN	G
	WIND	LOAD	G DIAGRAM
	1:100		
NORTH			

TYPE	UPLIFT FORCE DOWN FORCE (kPa)	
	-2.18 +1.06	
	-3.81 +1.06	
	-2.61 +1.08	
+ + + + + + + + + + + + + + + + + + + +	-3.86 +1.08	



- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- * It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- * All dimensions are in mm unless noted otherwise.



PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.
Signature
Date 2019 Jan 15

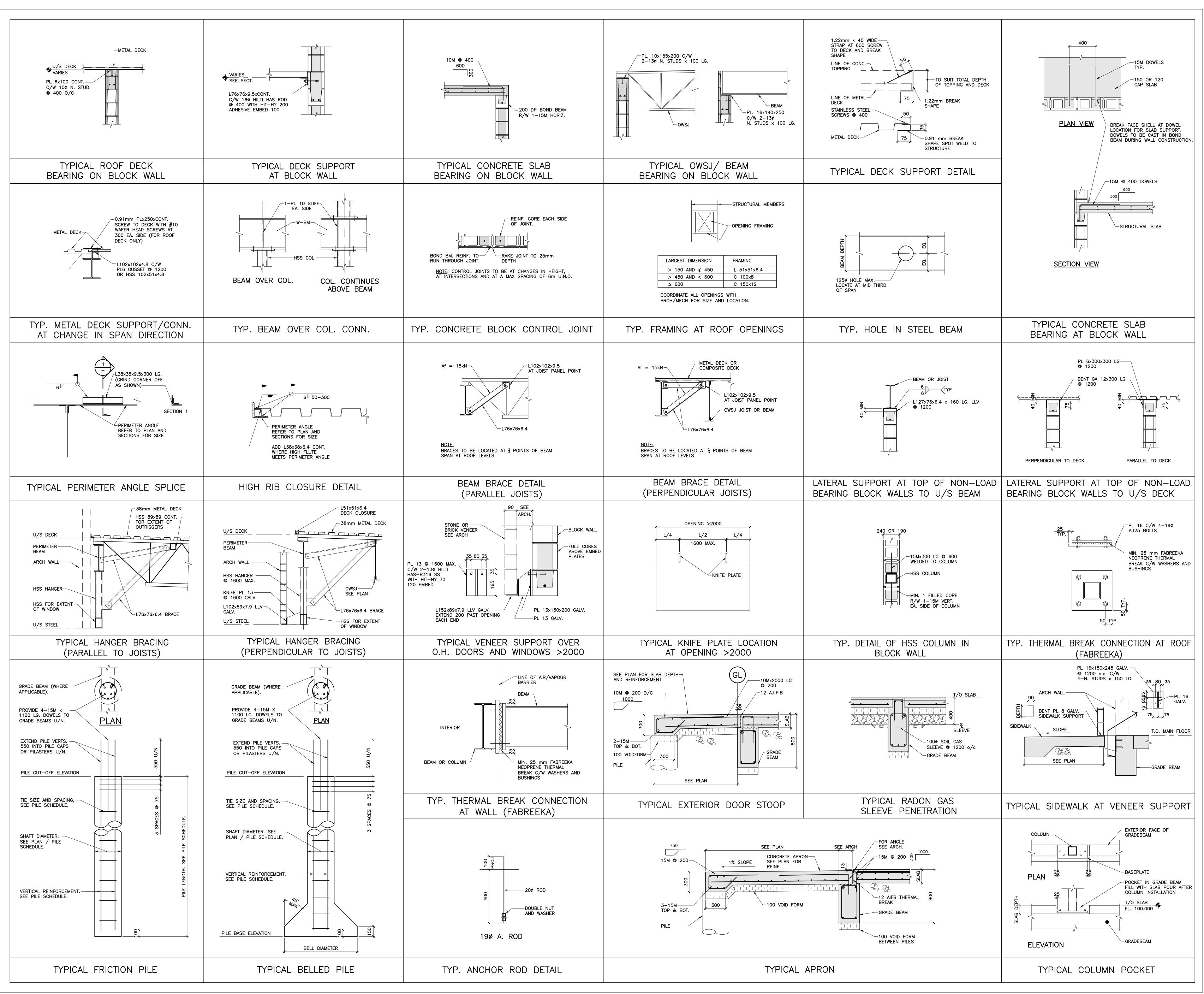
PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta

COALDALE PROTECTIVE SERVICES BUILDING

1				
	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC

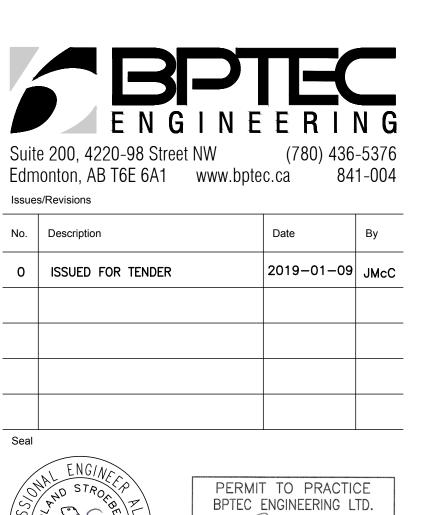
LOAD DIAGRAMS SHEET 2

S0.3





- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- reproduced in whole or in part without the express Architect or Engineer.
- All dimensions are in mm unless noted otherwise.



Signature 2019 Jan 15

PERMIT NUMBER: P0132
The Association of Professional Engineers

and Geoscientists of Alberta

COALDALE PROTECTIVE SERVICES BUILDING

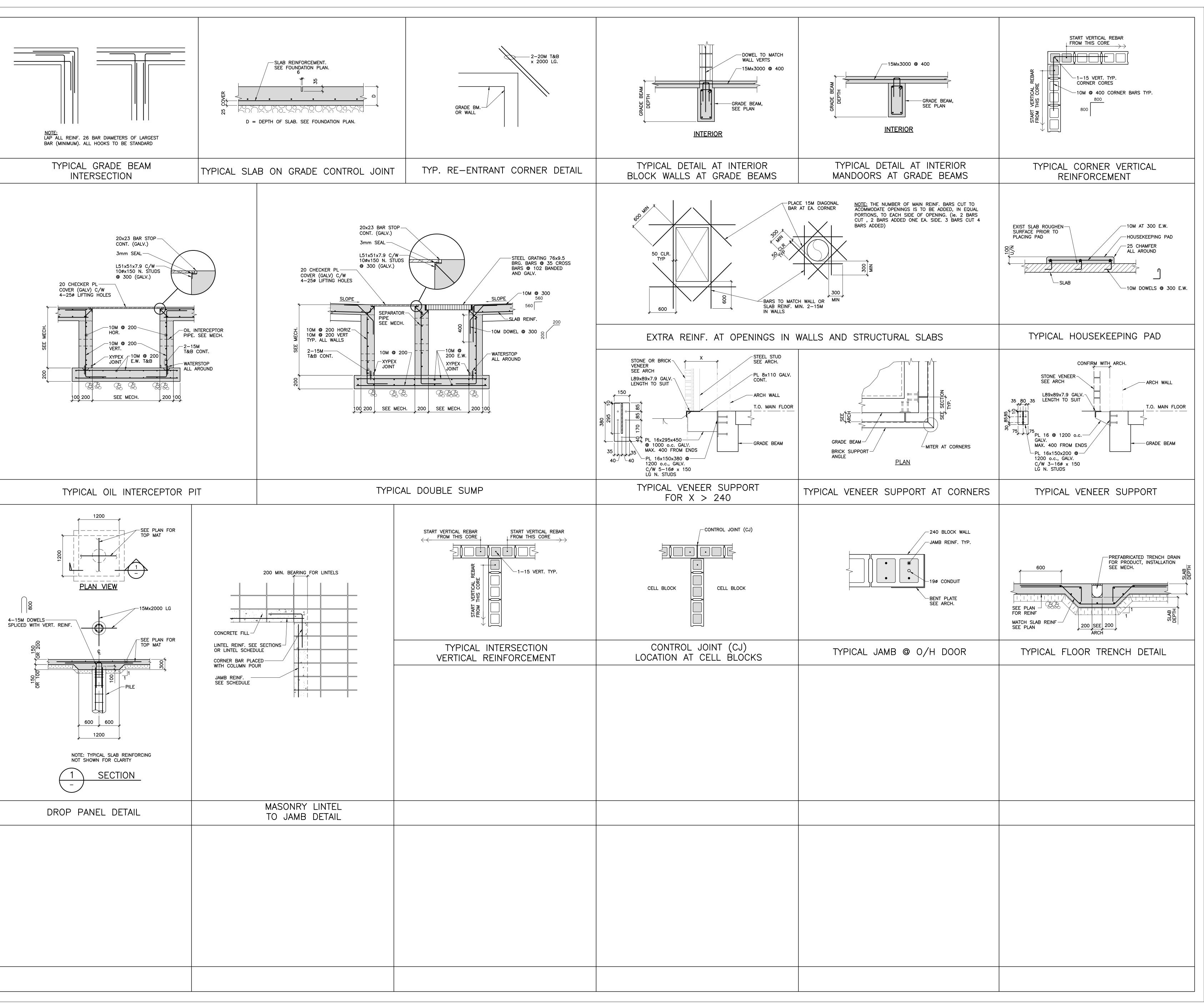
2019-01-09

Project No. 9030 Drawn By NM Date 2019 JAN 09 Checked By JMcC	Scale	AS NOTED	Designed By	JMcC/RS
Date 2019 JAN 09 Checked By JMcC	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC

TYPICAL DETAILS

Drawing No.

S_{0.4}

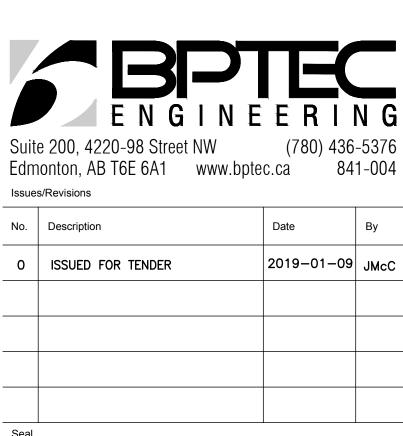




- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- or Engineer

 It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- reproduced in whole or in part without the express and Architect or Engineer.

 * All dimensions are in mm unless noted otherwise.



Project

COALDALE PROTECTIVE
SERVICES BUILDING

PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.
Signature
2019 Jan 15

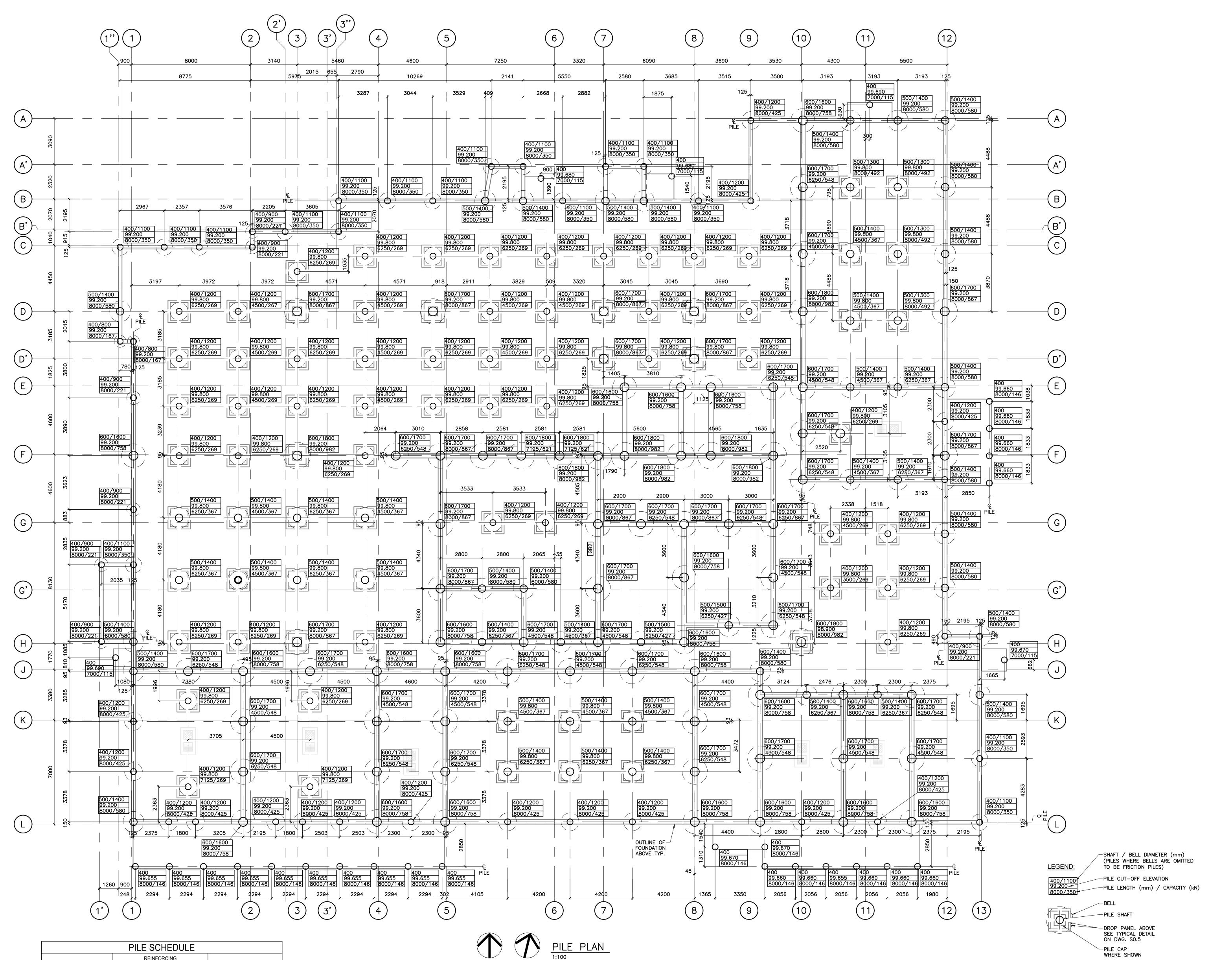
PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
•	Drawing Title			

TYPICAL DETAILS

Drawing No

S0.5



PILE SCHEDULE					
SHAFT DIAMETER	REINFORCING		REMARKS		
SHAFT DIAWETER	VERTICAL	TIES	REIWARRS		
400 Ø	5-15M FULL LENGTH	10M @ 300			
500 Ø	6-15M FULL LENGTH	10M @ 300			
600 Ø	8-15M FULL LENGTH	10M @ 300			

NOTE: PILES TO BE CENTRED UNDER COLUMNS OR GRADE BEAMS (UNLESS NOTED OTHERWISE)



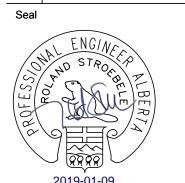
ARCHITECTS AND PLANNERS

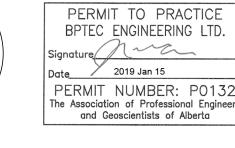
Notes: Do not scale drawing

- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- * It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- * All dimensions are in mm unless noted otherwise.



No.	Description	Date	Ву			
0	ISSUED FOR TENDER	2019-01-09	JMc			
Seal						



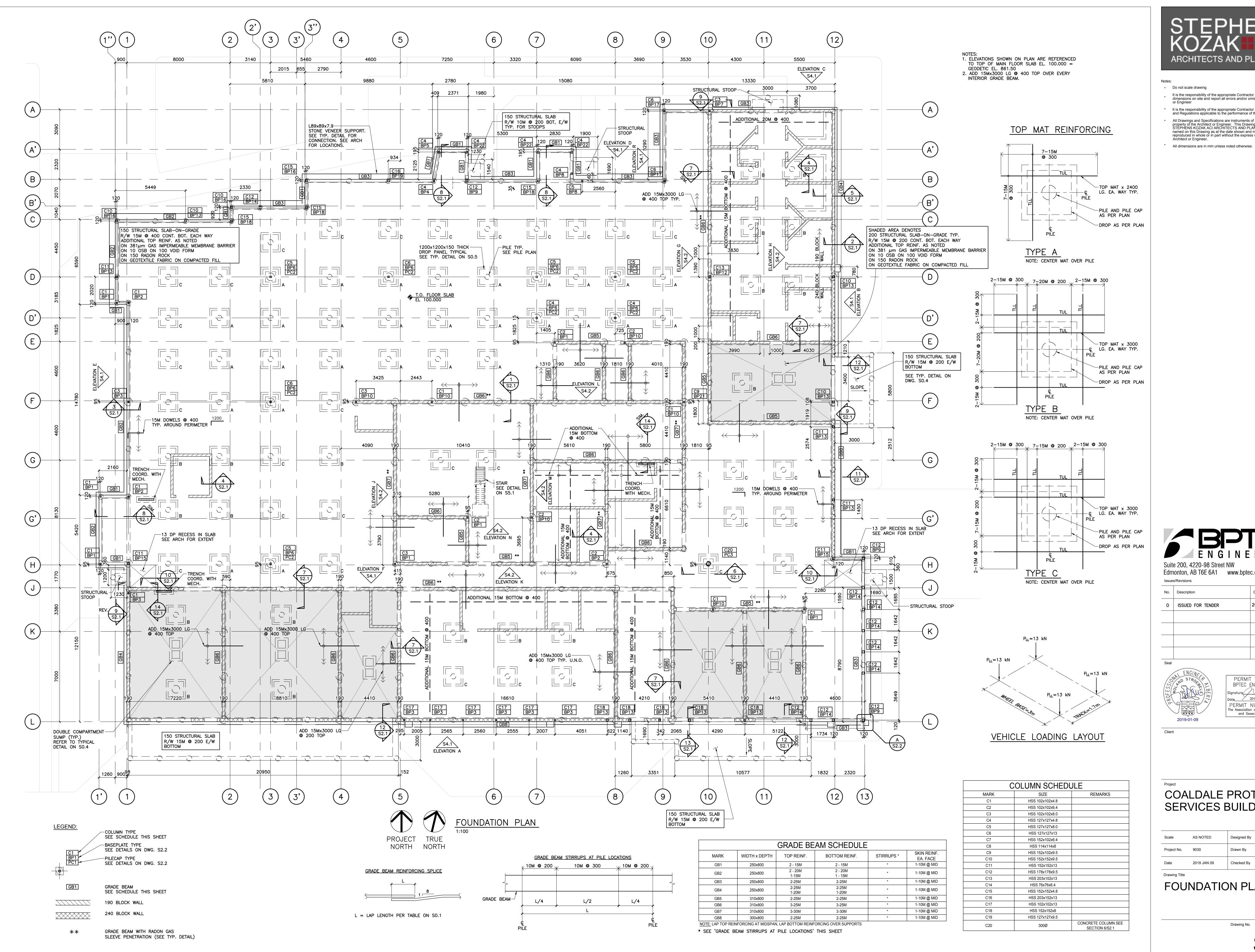


COALDALE PROTECTIVE

SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

PILE PLAN





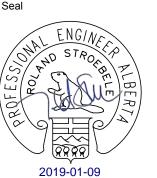
It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

Edmonton, AB T6E 6A1 www.bptec.ca 841-004

sues/Revisions					
).	Description	Date	Ву		
)	ISSUED FOR TENDER	2019-01-09	JMcC		



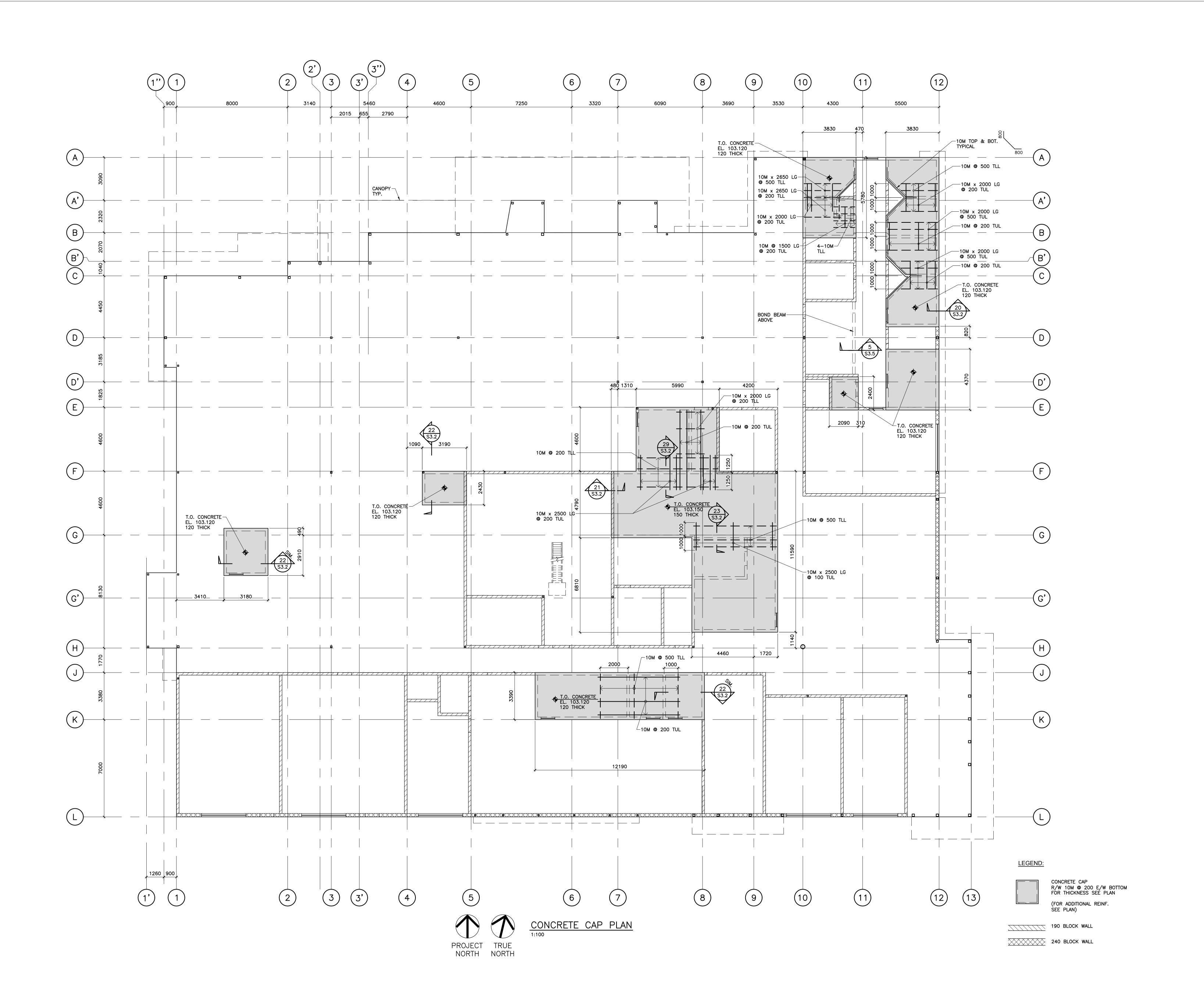
PERMIT TO PRACTICE BPTEC ENGINEERING LTD. Signature 2019 Jan 15 PERMIT NUMBER: P0132 he Association of Professional Engineers and Geoscientists of Alberta

COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS/SP
	Project No.	9030	Drawn By	NM
•	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

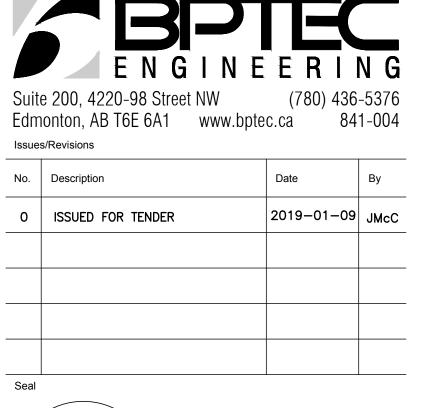
FOUNDATION PLAN

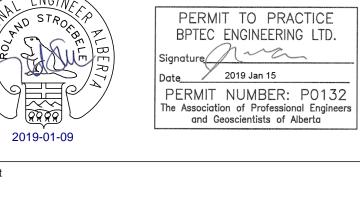
Drawing No.





- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- * It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- * All dimensions are in mm unless noted otherwise.



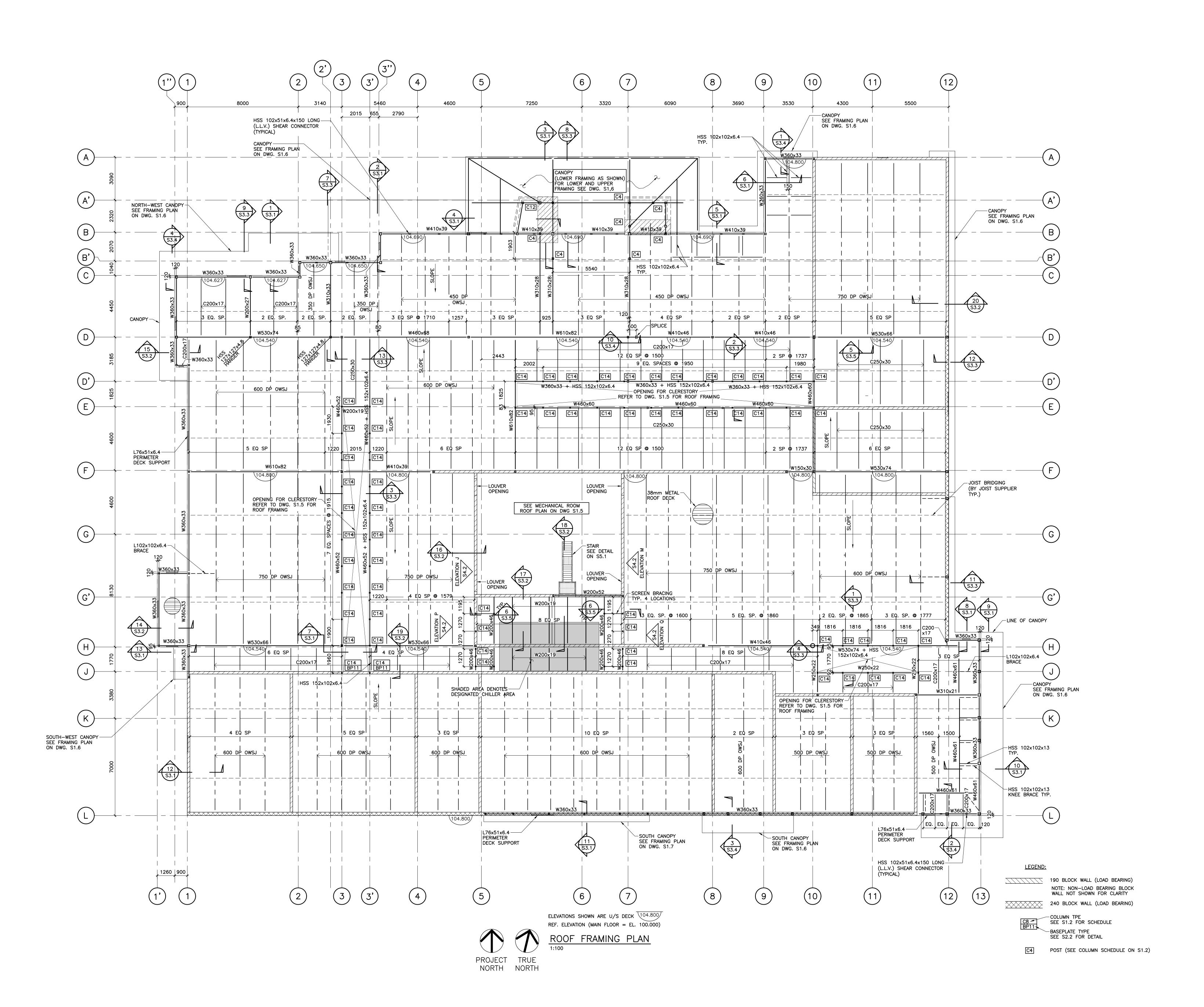


COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

INTERSTITIAL PLAN

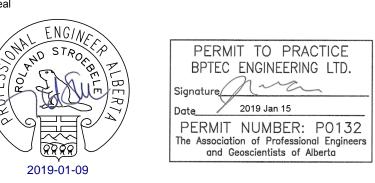
Drawing No.





- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- * All dimensions are in mm unless noted otherwise.





COALDALE PROTECTIVE SERVICES BUILDING

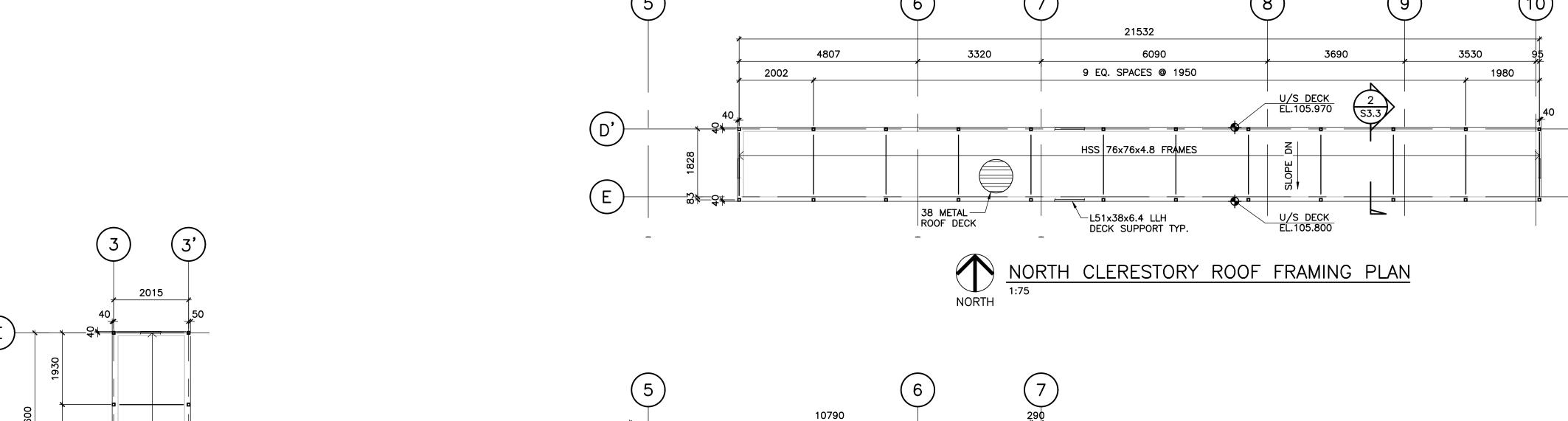
	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

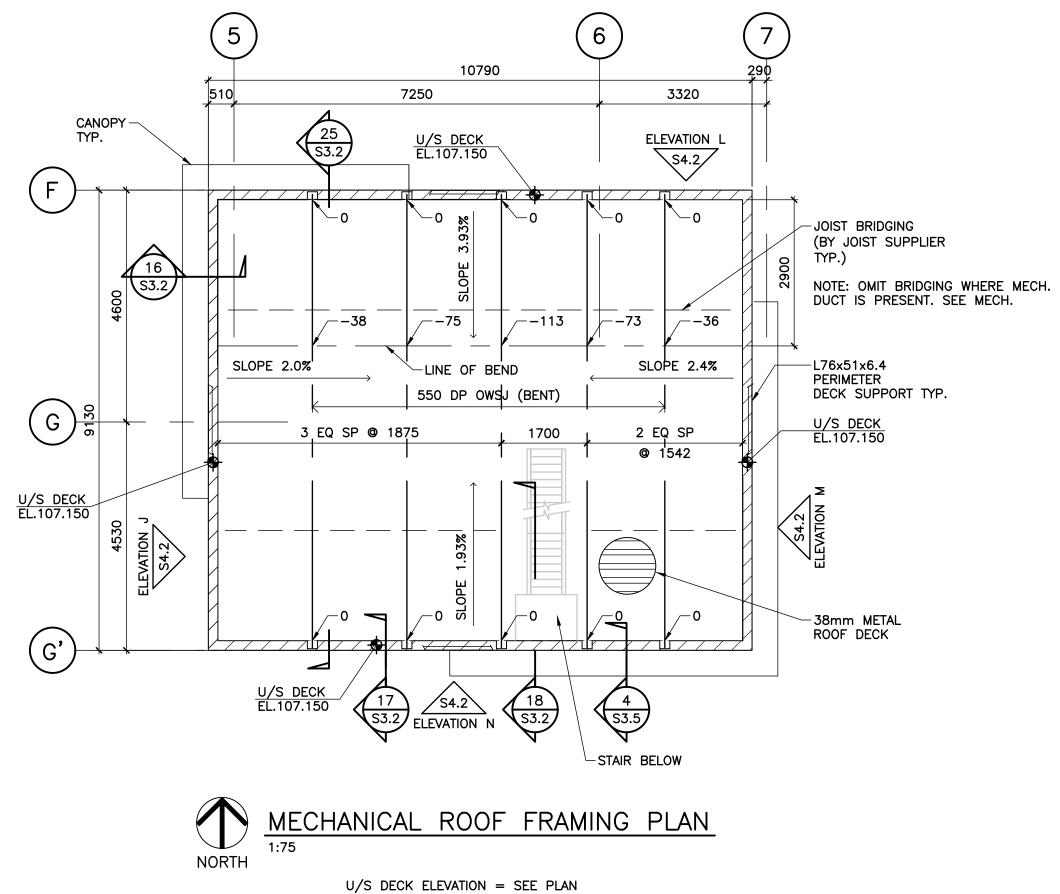
ROOF FRAMING PLAN

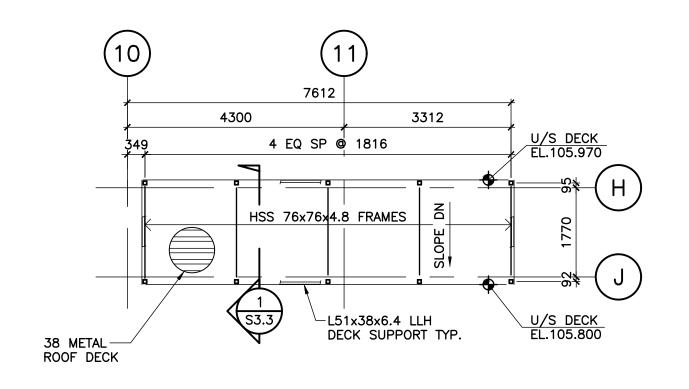
Drawing No.

S_{1.4}

NOTE: ALL HSS CLERESTORY FRAMES TO BE CATEGORY AESS 3







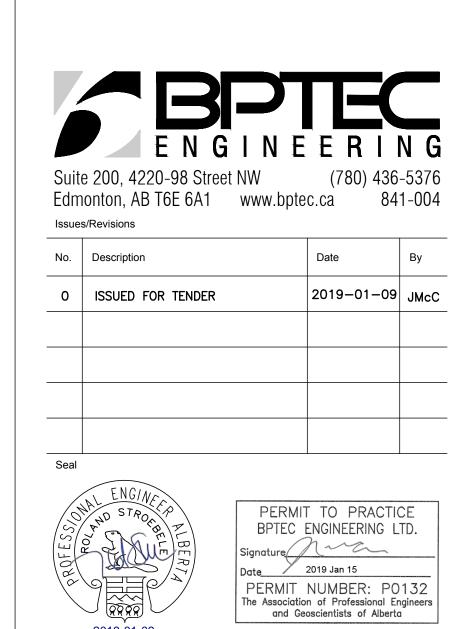




Notes:

* Do not scale drawing

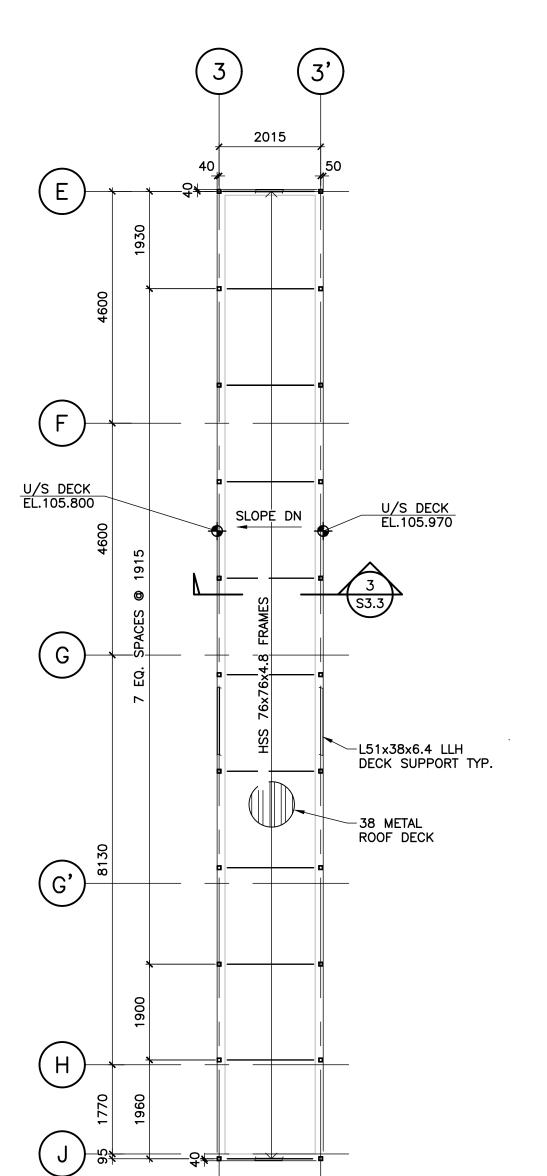
- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- * All dimensions are in mm unless noted otherwise.



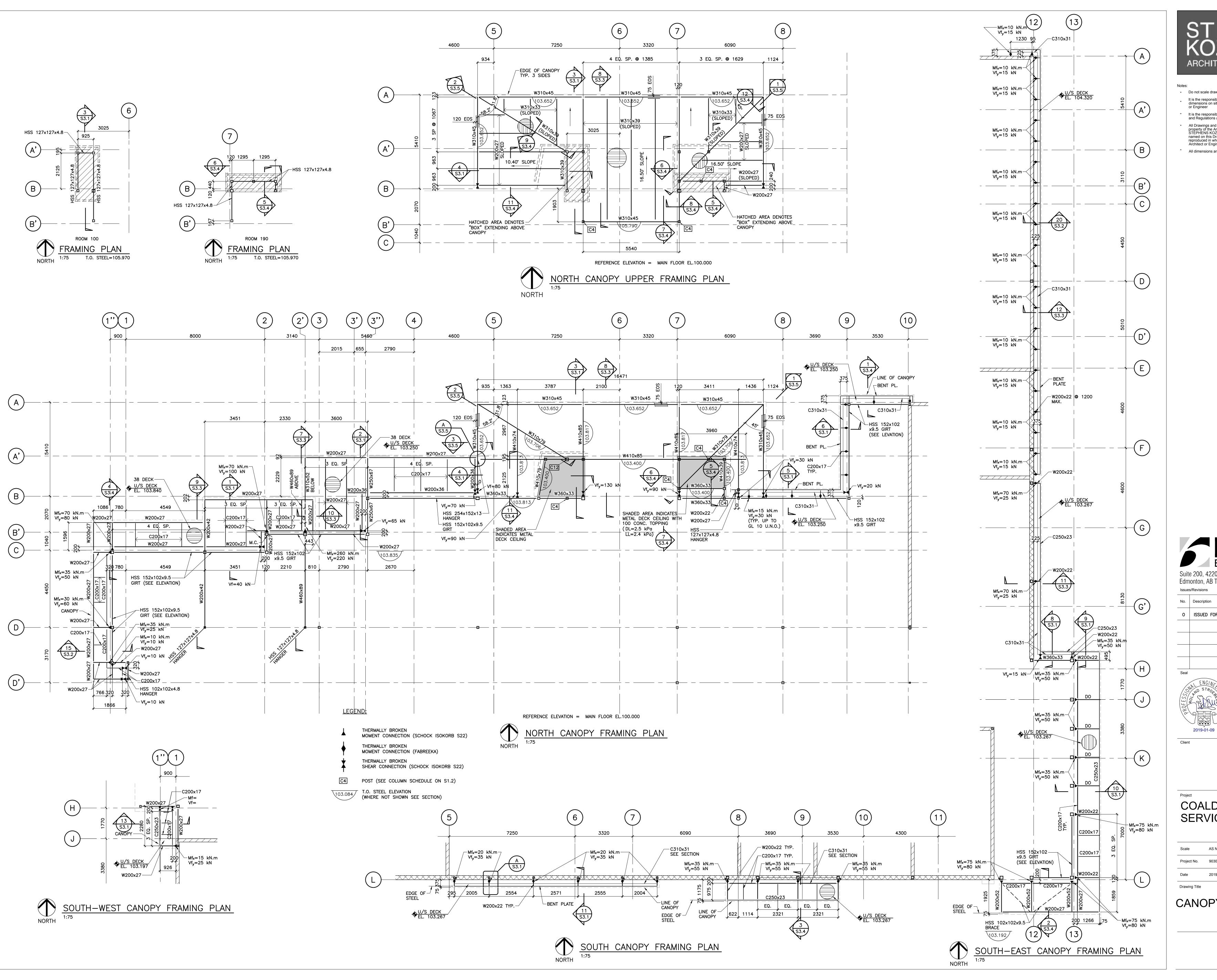
COALDALE PROTECTIVE SERVICES BUILDING

So	cale	AS NOTED	Designed By	JMcC/RS
Pr	oject No.	9030	Drawn By	NM
Da	ate	2019 JAN 09	Checked By	JMcC
	owing Title	•		

MECHANICAL ROOM AND
CLERESTORY ROOF
FRAMING PLAN







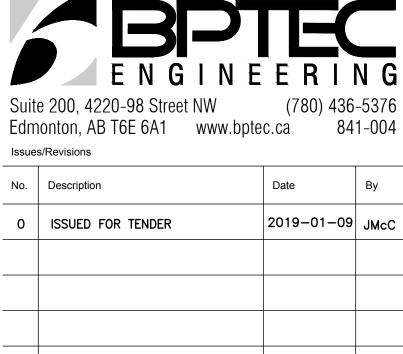


It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

* All dimensions are in mm unless noted otherwise.



PERMIT TO PRACTICE BPTEC ENGINEERING LTD. gnature Manage 2019 Jan 15 PERMIT NUMBER: P0132 he Association of Professional Engineers and Geoscientists of Alberta

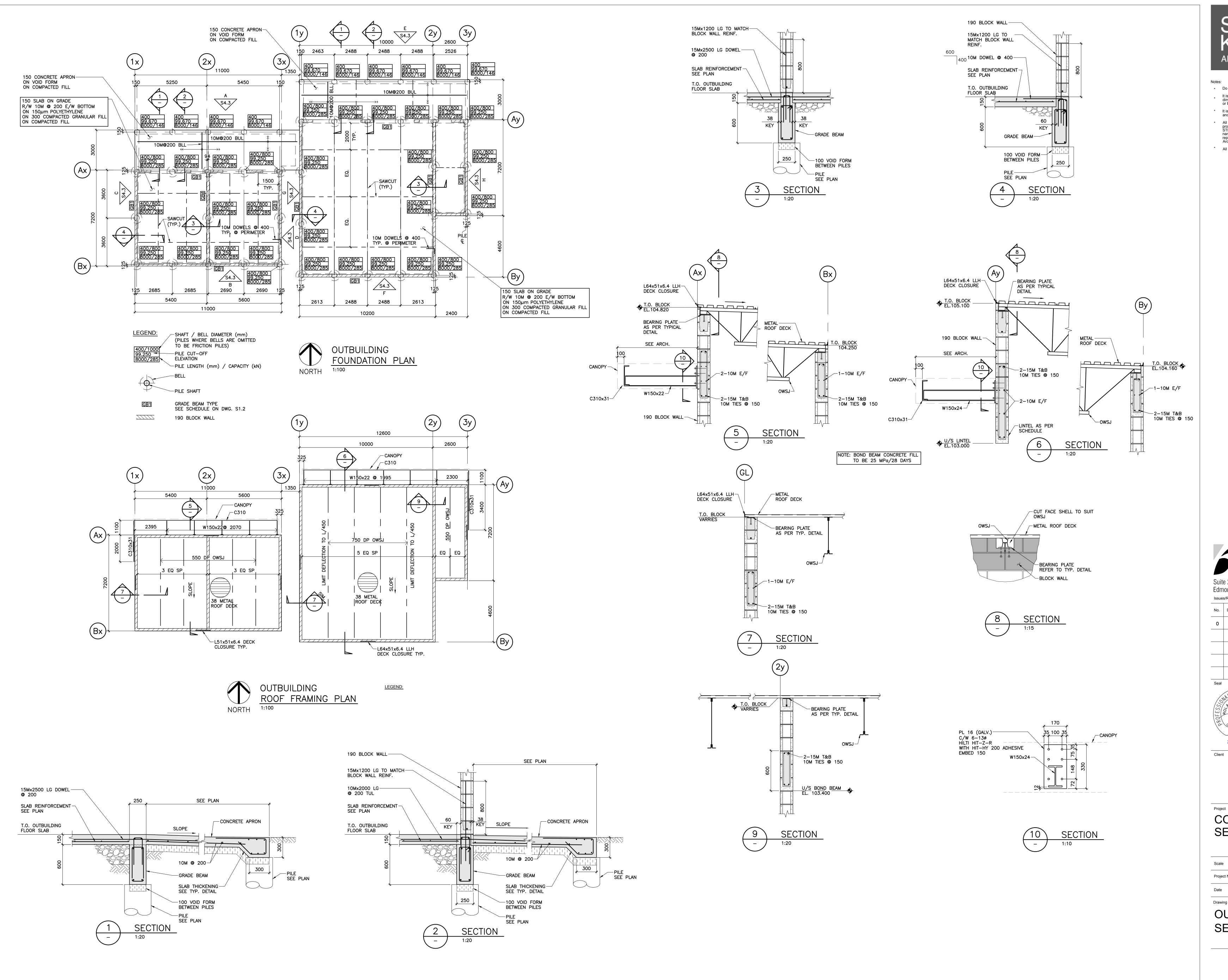
COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC
Drawing Title			

CANOPY FRAMING PLANS

Drawing No.

S1.6





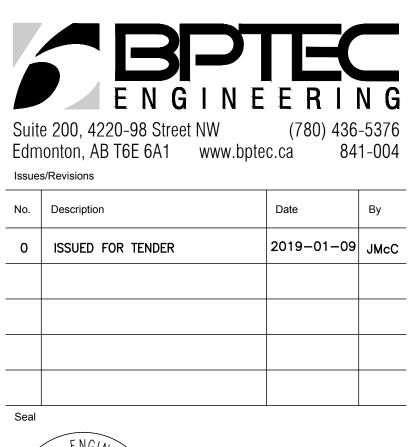
It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or

reproduced in whole or in part without the express written consent of the Architect or Engineer.

* All dimensions are in mm unless noted otherwise.



PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.
Signature
Date 2019 Jan 15

PERMIT NUMBER: P0132
The Association of Professional Engineers

and Geoscientists of Alberta

COALDALE PROTECTIVE SERVICES BUILDING

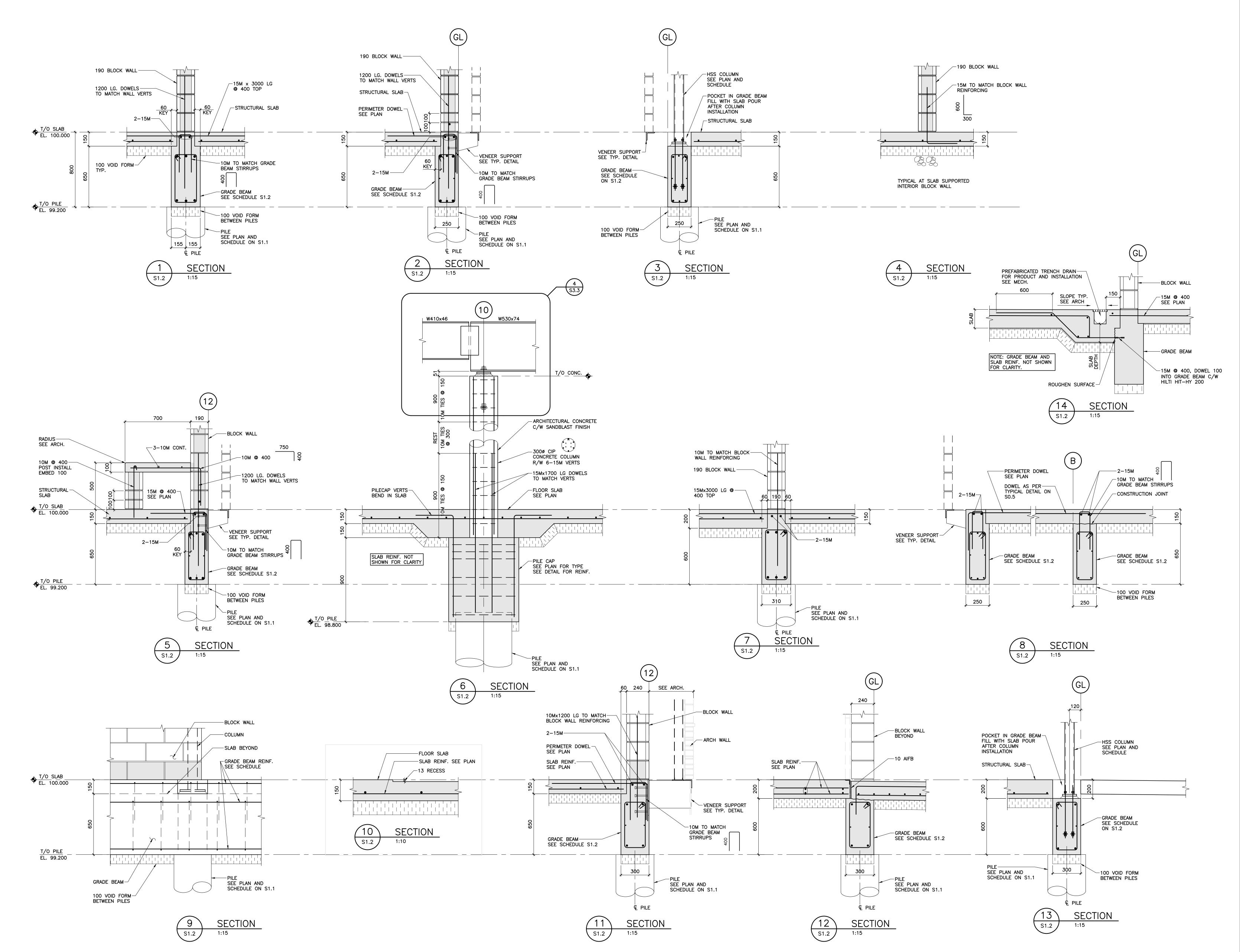
2019-01-09

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC
Drawing Title			

OUTBUILDING PLANS SECTIONS AND DETAILS

Drawing N

S1.7



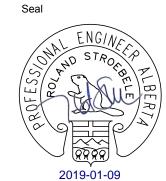


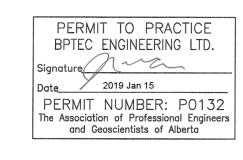
- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- Architect or Engineer.

 * All dimensions are in mm unless noted otherwise.



Issues/Revisions			
No.	Description	Date	Ву
0	ISSUED FOR TENDER	2019-01-09	JMcC
Seal			





Client

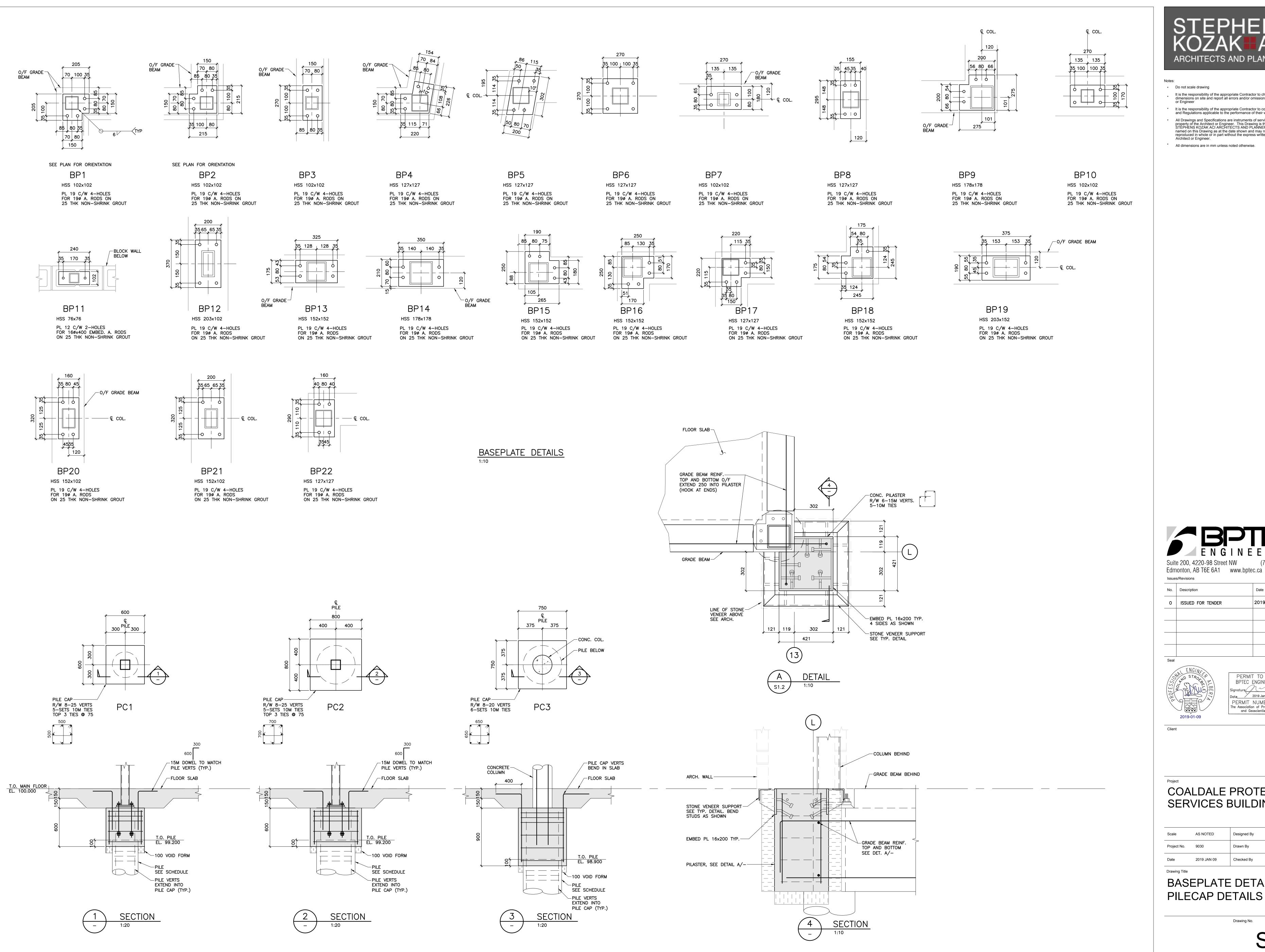
COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC

FOUNDATION SECTIONS

Drawing No.

S2.





It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

* All dimensions are in mm unless noted otherwise.



10000						
No.	Description	Date	Ву			
0	ISSUED FOR TENDER	2019-01-09	JMcC			
Seal						



PERMIT TO PRACTICE BPTEC ENGINEERING LTD. Signature 2019 Jan 15 PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta

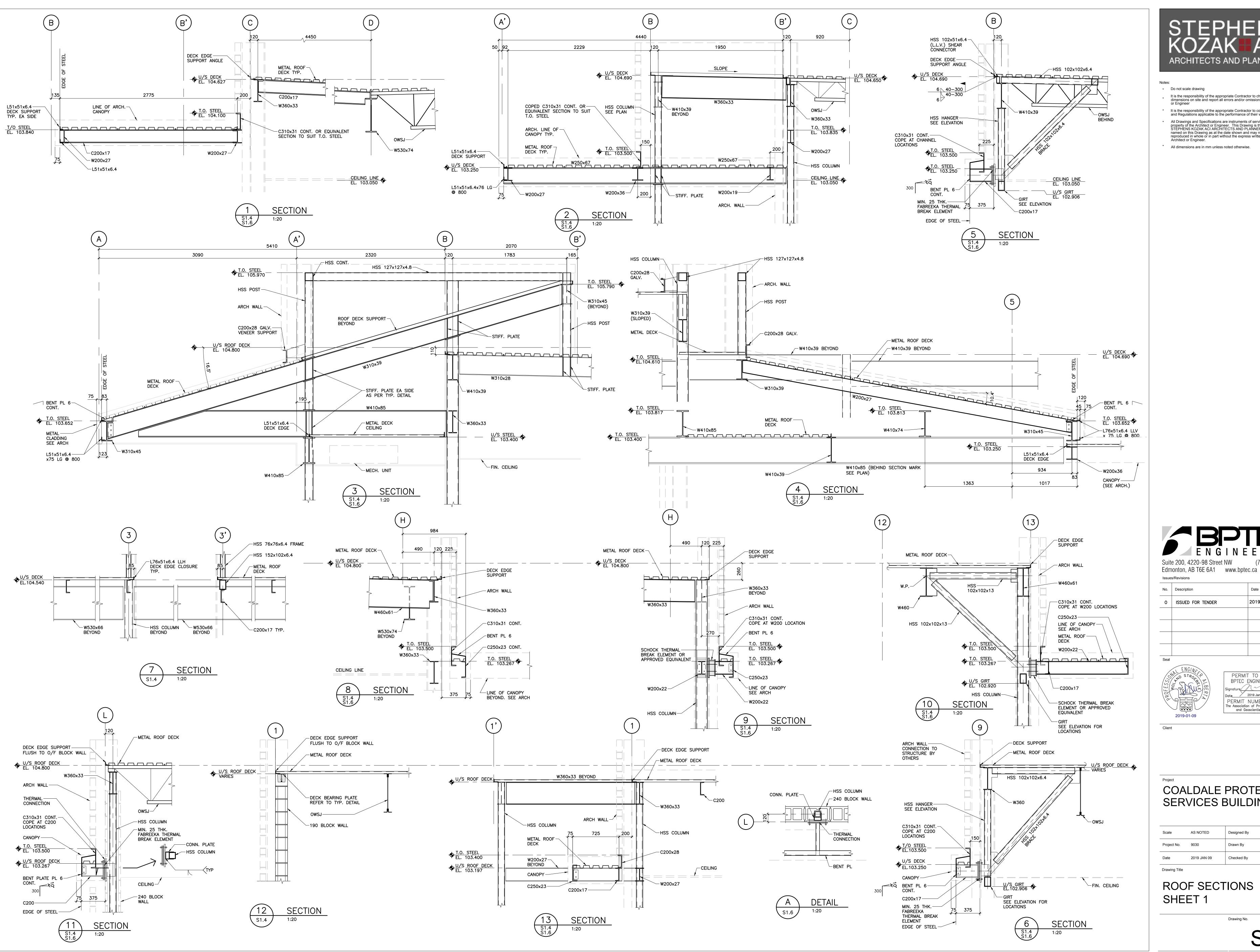
COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC

BASEPLATE DETAILS,

Drawing No.

S2.2



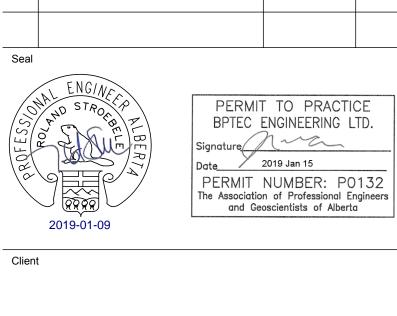


It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

* All dimensions are in mm unless noted otherwise.



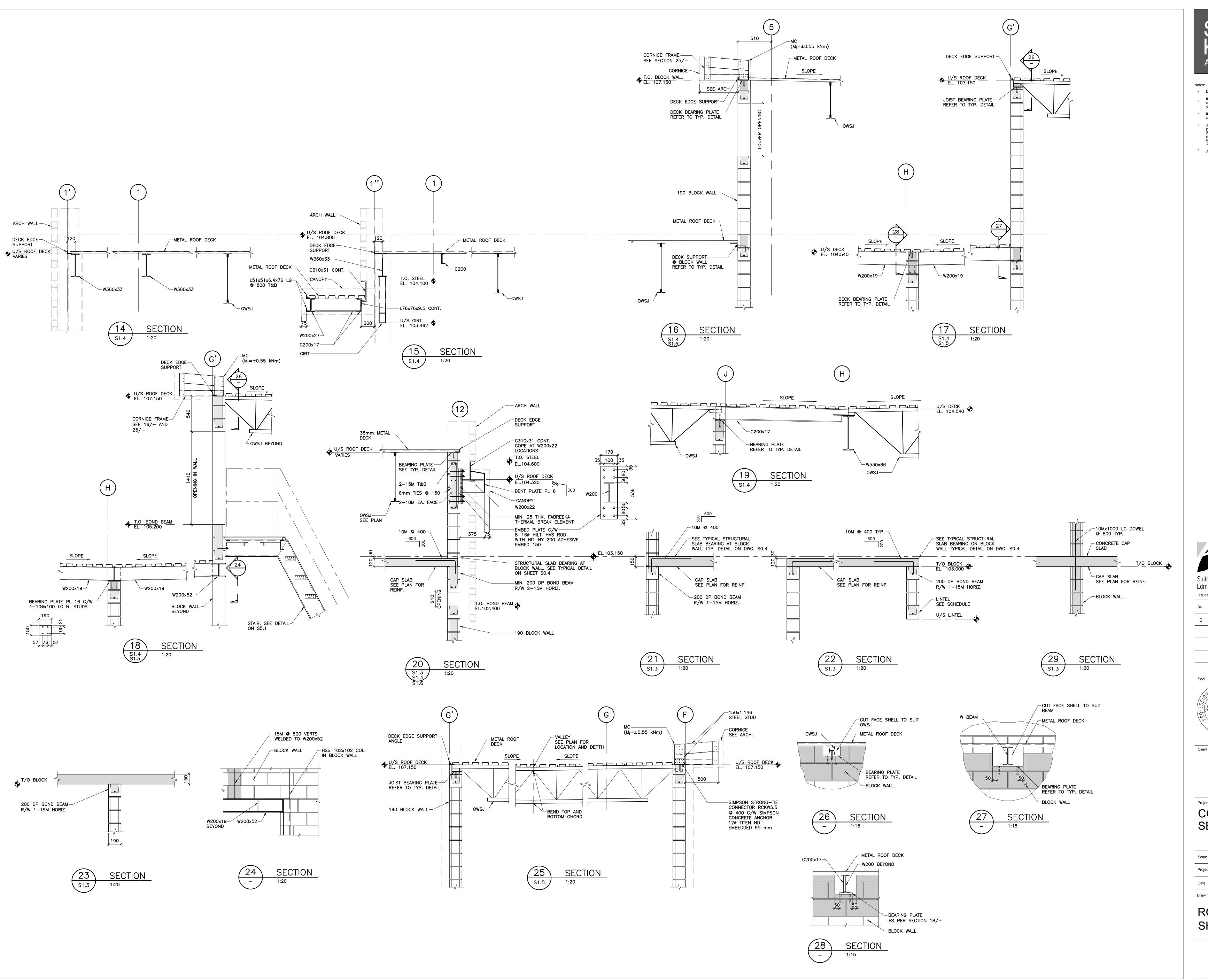
2019-01-09 JMcC

COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC
Drawing Title		•	

ROOF SECTIONS SHEET 1

Drawing No. S3.1





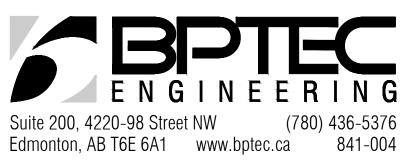
It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

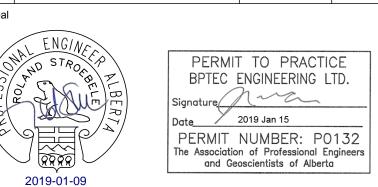
* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

Architect or Engineer.

* All dimensions are in mm unless noted otherwise.



	ssues/Revisions					
No.	Description	Date	Ву			
0	ISSUED FOR TENDER	2019-01-09	JMcC			
			_			
Seal						



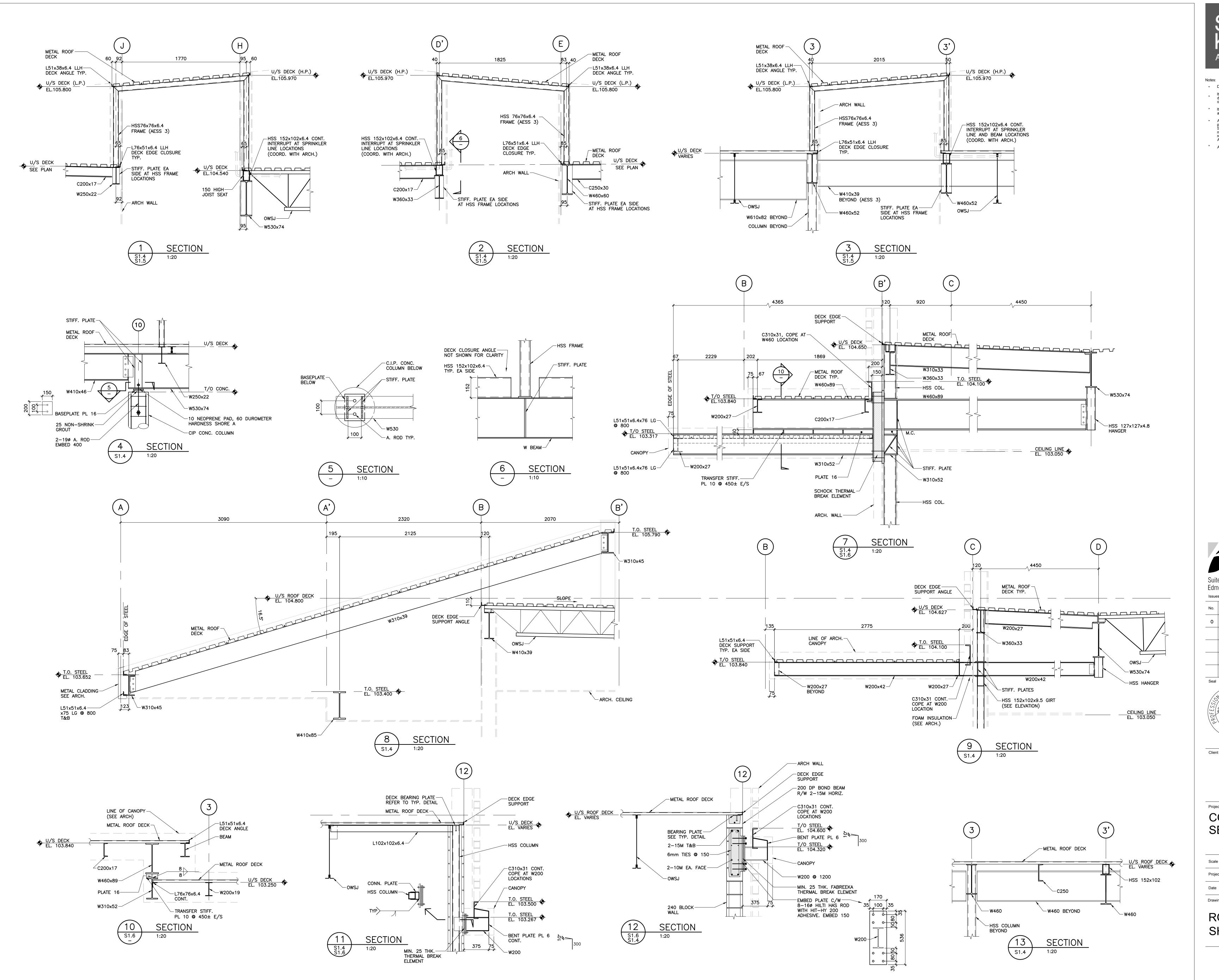
Client

COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

ROOF SECTIONS SHEET 2

Drawing





* It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

Architect or Engineer.

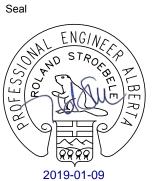
* All dimensions are in mm unless noted otherwise.

All differsions are in film diffess noted otherwise.



No. Description Date By

O ISSUED FOR TENDER 2019-01-09 JMcC



PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.
Signature
Date 2019 Jan 15
PERMIT NUMBER: PO132
The Association of Professional Engineers
and Geoscientists of Alberta

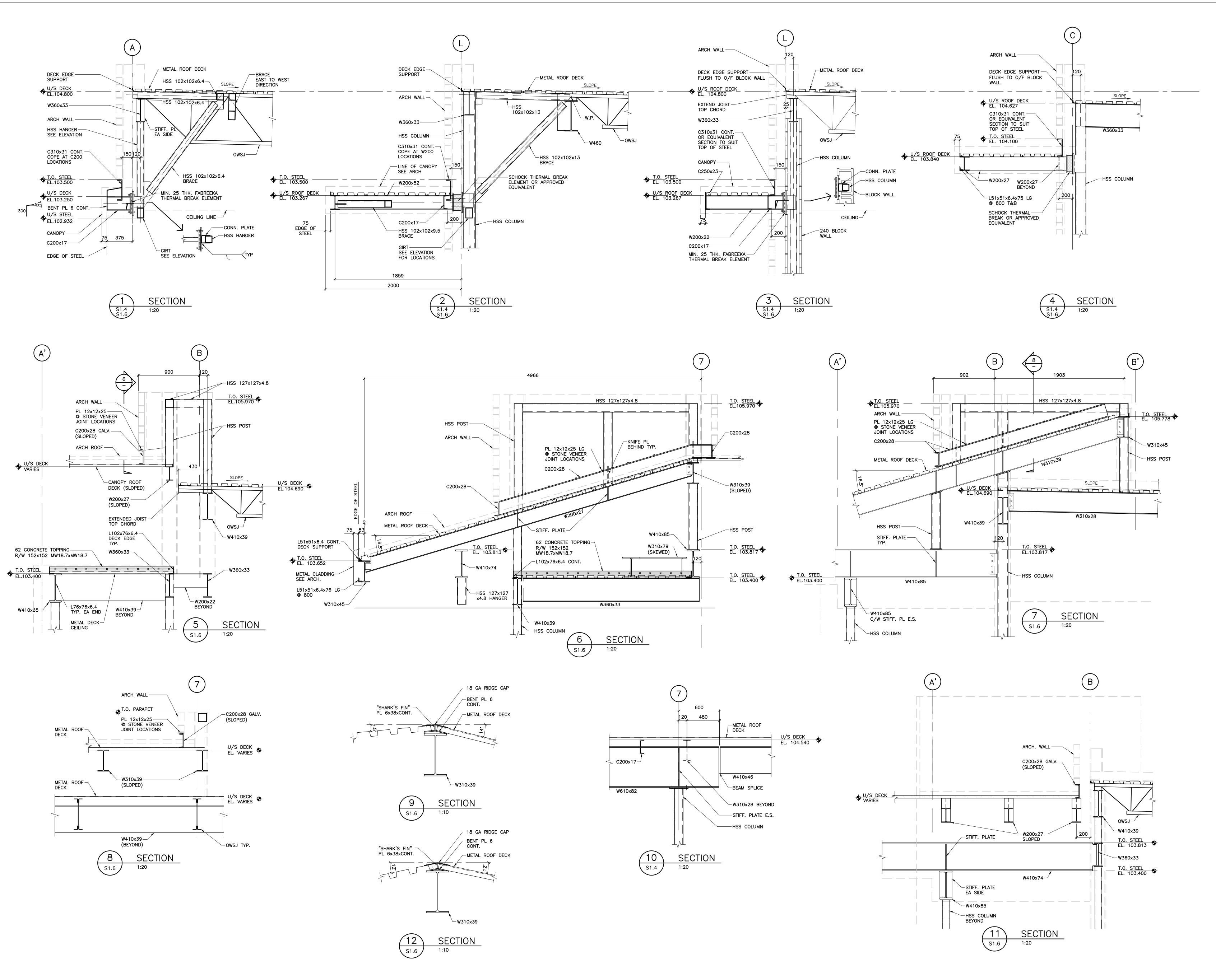
Client

COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC
Drawing Title			

ROOF SECTIONS SHEET 3

Drawing No.





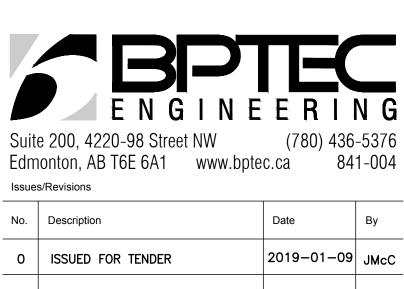
t is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

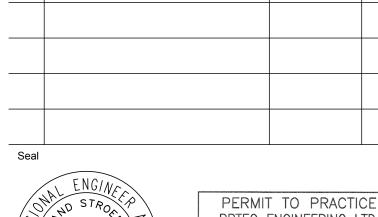
* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

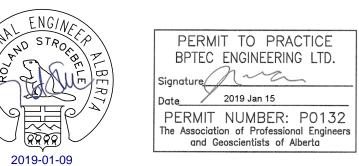
* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.

Architect or Engineer.

* All dimensions are in mm unless noted otherwise.







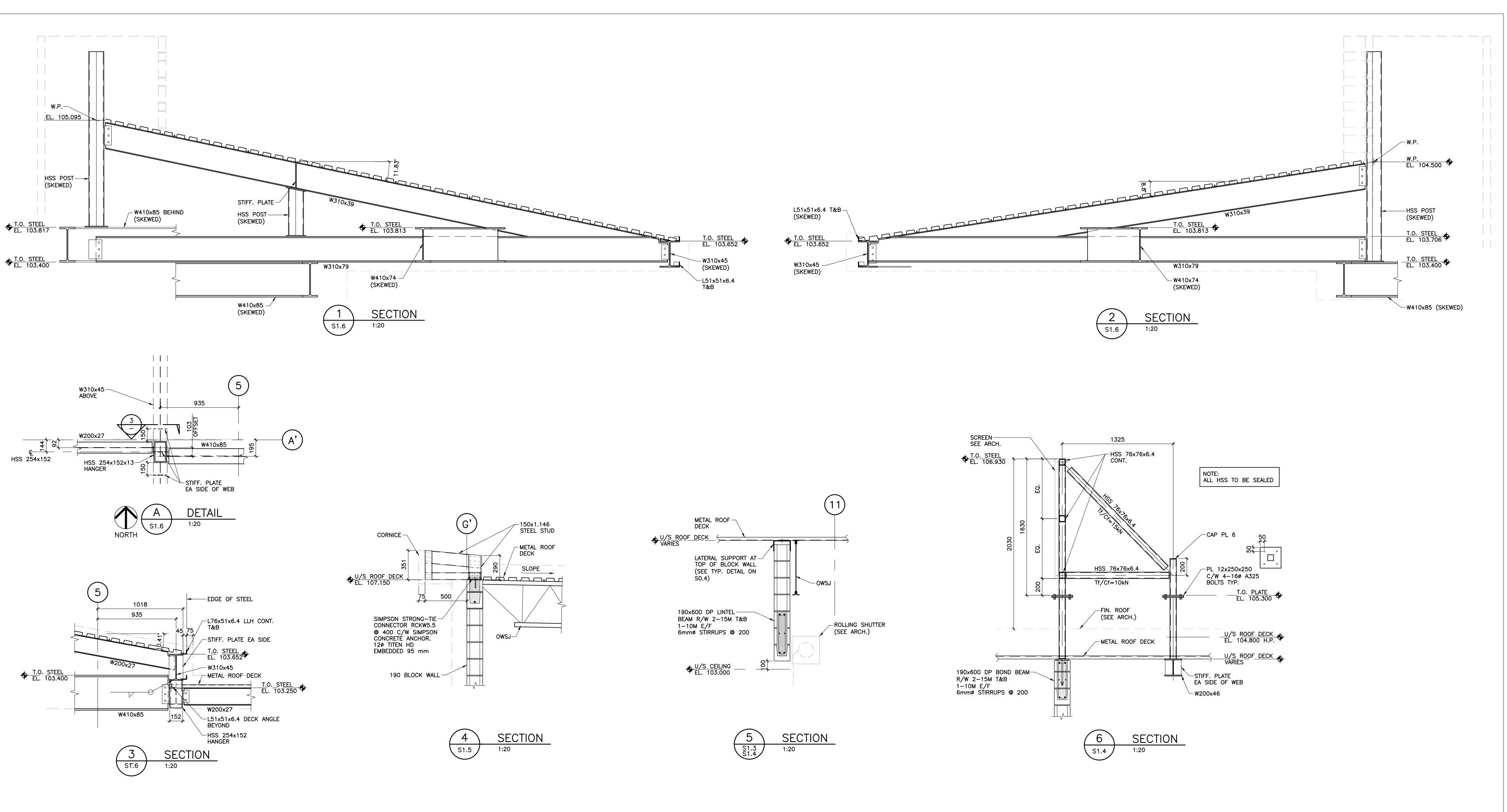
Client

COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

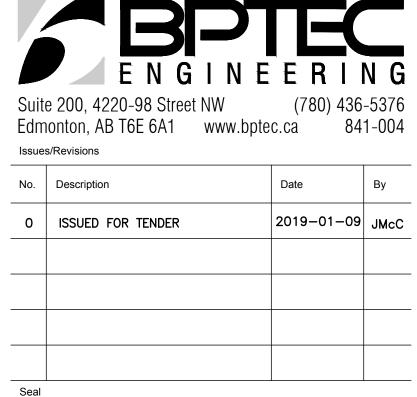
ROOF SECTIONS SHEET 4

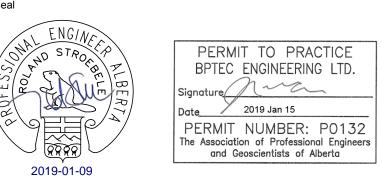
Drawing No.





- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- * All dimensions are in mm unless noted otherwise.





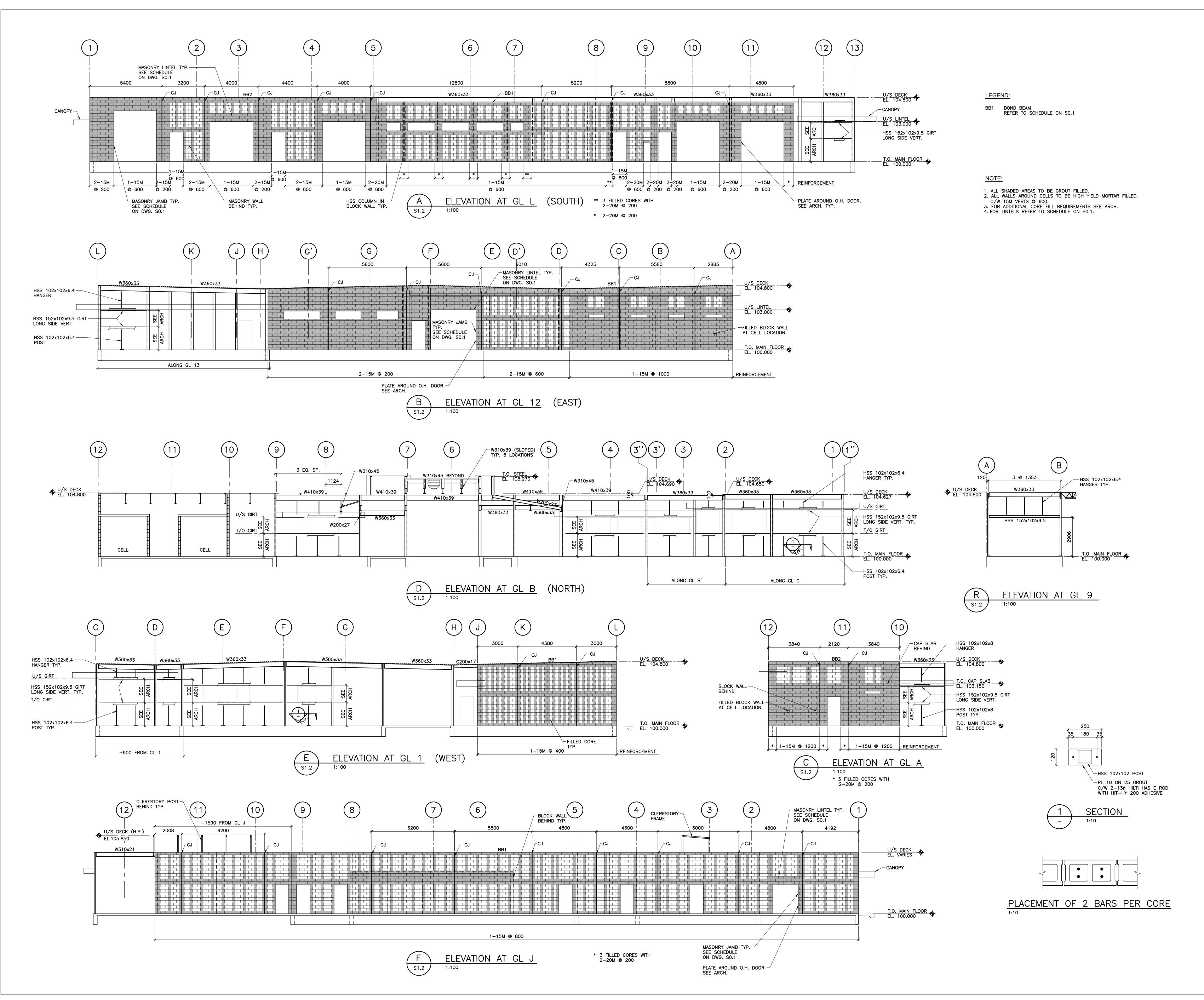
Client

COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	JMcC/RS
	Project No.	9030	Drawn By	NM
	Date	2019 JAN 09	Checked By	JMcC
	Drawing Title			

ROOF SECTIONS SHEET 5

Drawing No.

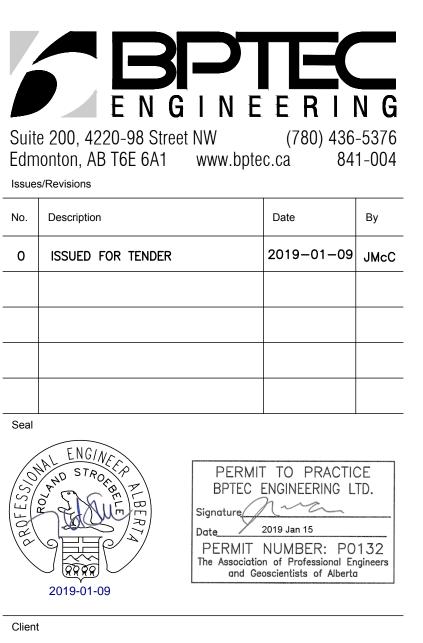




- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect
- * It is the responsibility of the appropriate Contractor to comply with all Codes

and Regulations applicable to the performance of their work.

- * All Drawings and Specifications are instruments of service and are the
- property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the
- * All dimensions are in mm unless noted otherwise.



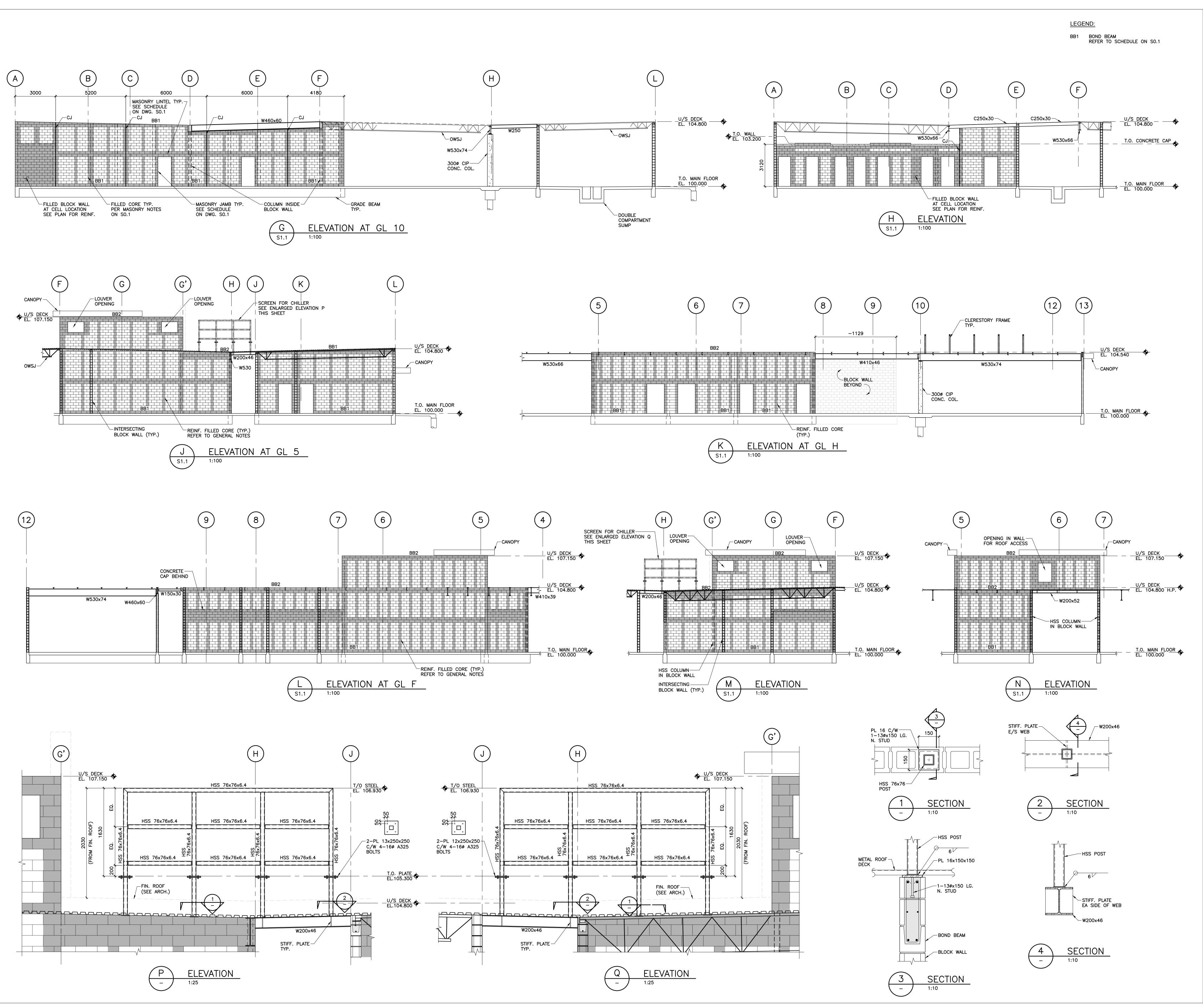
COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC
Drawing Title			

WALL ELEVATIONS SHEET 1

Drawing No.

S4.1





It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer

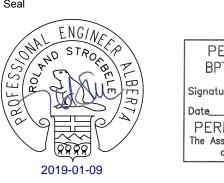
* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

* All dimensions are in mm unless noted otherwise.



2019-01-09 JMcC O ISSUED FOR TENDER



PERMIT TO PRACTICE
BPTEC ENGINEERING LTD.
Signature
2019 Jan 15 PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta Client

COALDALE PROTECTIVE

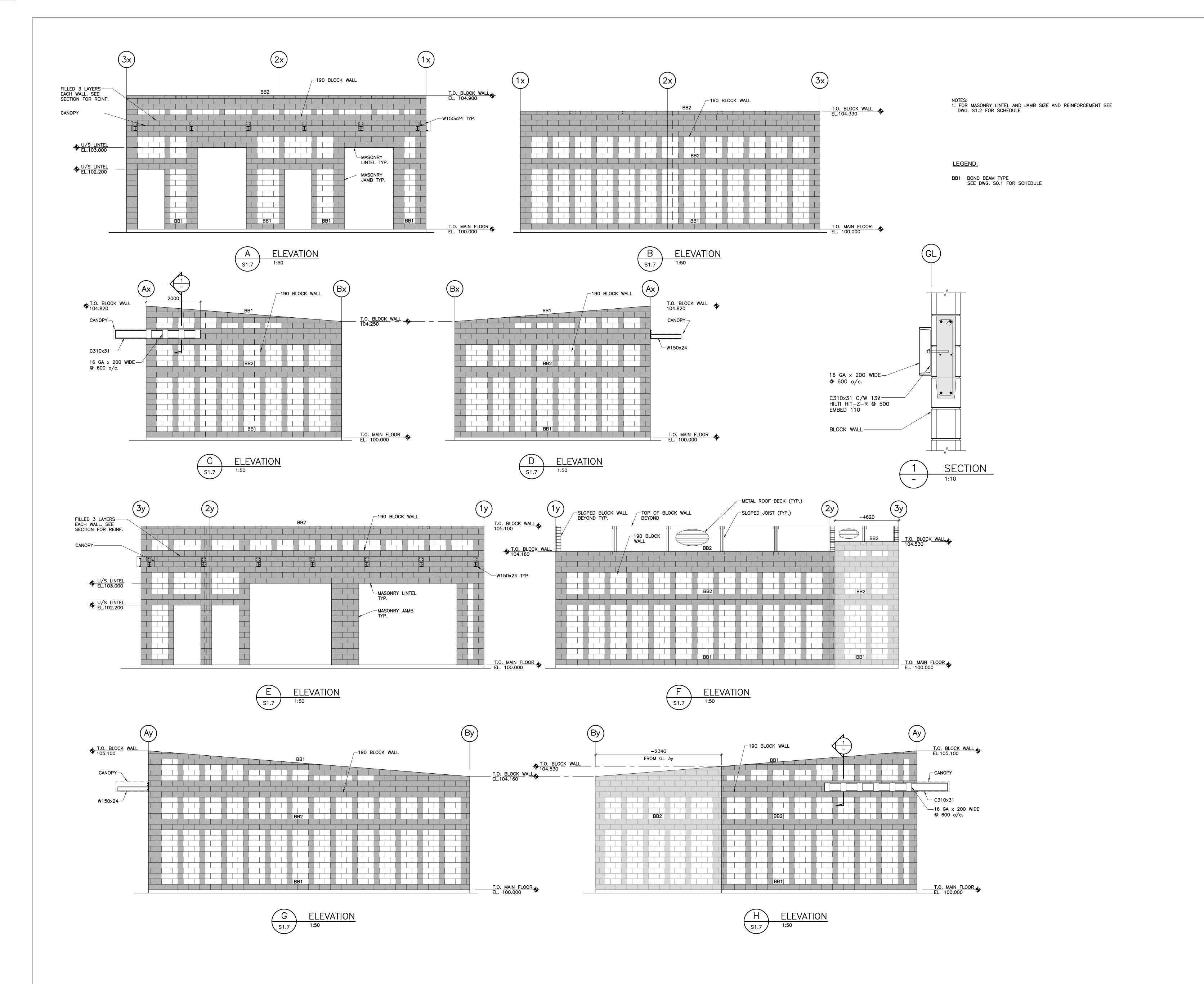
Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM

SERVICES BUILDING

2019 JAN 09

WALL ELEVATIONS SHEET 2

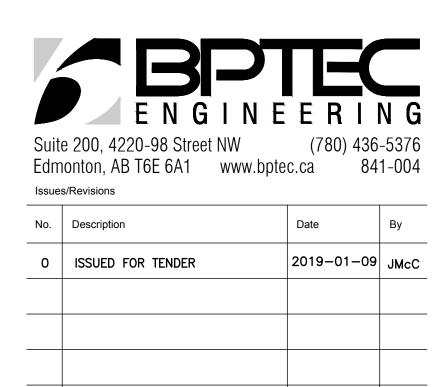
> Drawing No. S4.2

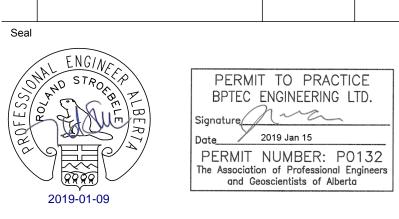




- It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect or Engineer
- It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
- * All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the Architect or Engineer.
- Architect or Engineer.

 All dimensions are in mm unless noted otherwise.





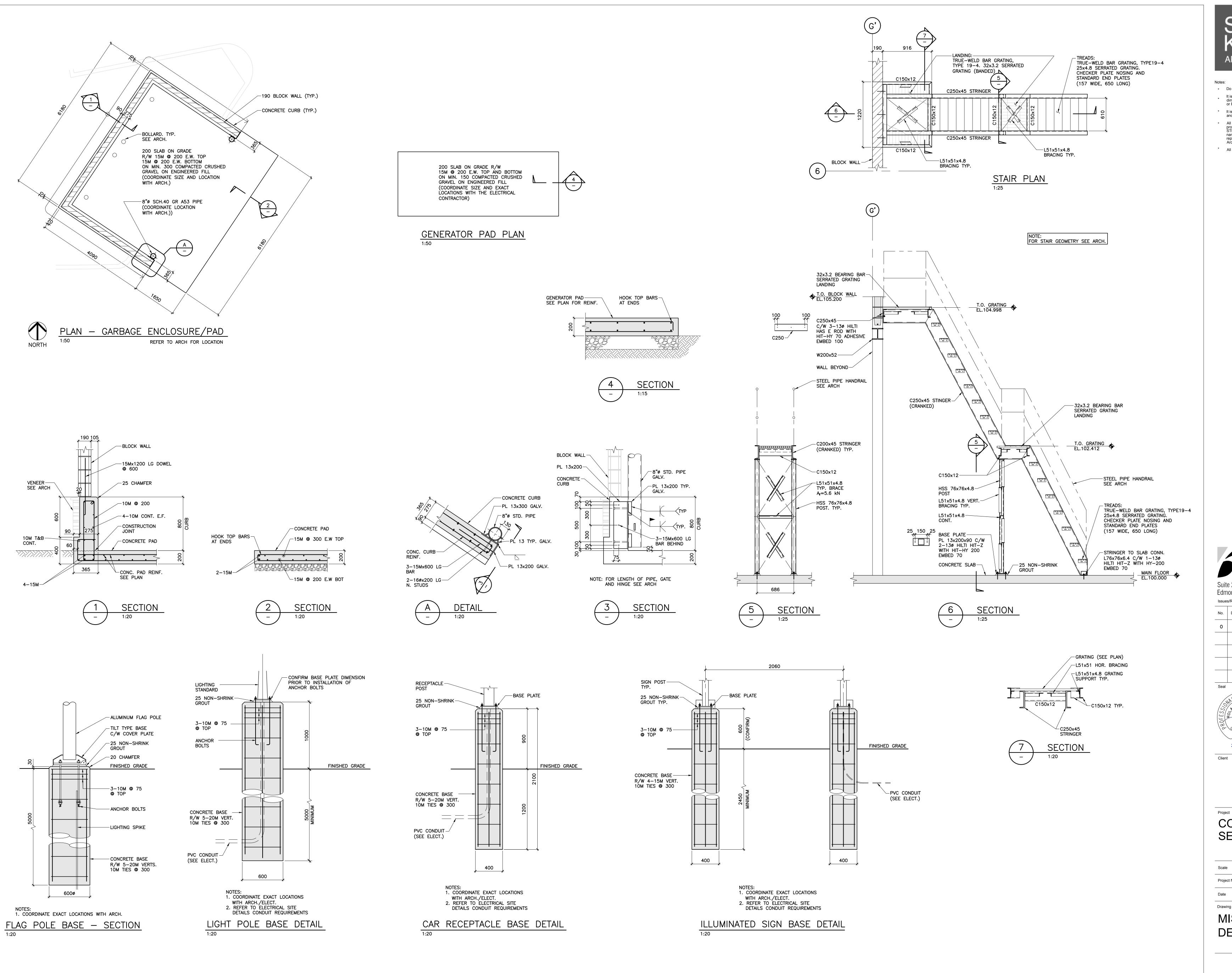
COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Projec	t No. 9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC

OUTBUILDING ELEVATIONS

Drawing

S4.3



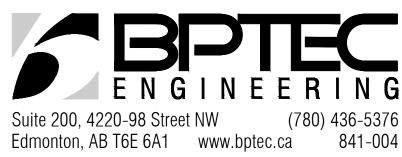


It is the responsibility of the appropriate Contractor to check and verify all dimensions on site and report all errors and/or omissions to the Architect

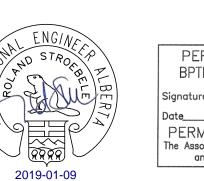
* It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.

* All Drawings and Specifications are instruments of service and are the property of the Architect or Engineer. This Drawing is the Copyright of STEPHENS KOZAK ACI ARCHITECTS AND PLANNERS or the Consultant named on this Drawing as at the date shown and may not be used or reproduced in whole or in part without the express written consent of the

* All dimensions are in mm unless noted otherwise.



	nonton, AB T6E 6A1 www.bpte s/Revisions	ec.ca [*] 84	1-004
No.	Description	Date	Ву
0	ISSUED FOR TENDER	2019-01-09	JMcC



PERMIT TO PRACTICE BPTEC ENGINEERING LTD. Signature 2019 Jan 15 PERMIT NUMBER: P0132
The Association of Professional Engineers and Geoscientists of Alberta

COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	JMcC/RS
Project No.	9030	Drawn By	NM
Date	2019 JAN 09	Checked By	JMcC

MISCELLANEOUS **DETAILS**

Drawing No.

S5.1