

ROOF FRAMING PLAN

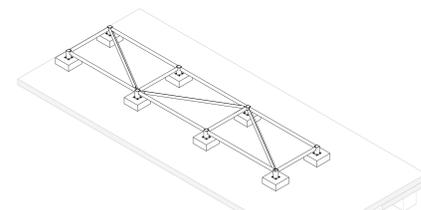
- FINISHED ROOF IS AT 20.038 m ABOVE GROUND FLOOR LEVEL DATUM 0.0 m.
- TOP OF STEEL BEAM 38mm BELOW ROUGH ROOF UNLESS NOTED THIS \overline{XX}
- LIVE LOAD:
SNOW LOAD 2.75 kPa
EXCEPT AS CROSSED AND NOTED, OR INDICATED BY SNOW LOADING DIAGRAMS.
- SUPERIMPOSED DEAD LOADS ARE:
MECHANICAL AND ELECTRICAL 0.35 kPa
CEILING 0.1 kPa
ROOFING 0.1 kPa
BALLAST 0.45 kPa
EXCEPT AS CROSSED AND NOTED.
- DENOTES FULL MOMENT CONNECTION UNLESS OTHERWISE NOTED.
- "Wp" FOR "Ws" INDICATE SUPERIMPOSED DEAD AND LIVE/SNOW LOADS ACTING ON THE SLAB. "Wp" VALUES EXCLUDE WEIGHT OF STEEL FRAMING DECK.
- STEEL DECK IS DESIGNED TO ACT AS DIAPHRAGM. FASTEN TO RESIST FACTORED FORCE SHOWN ON DRAWING S10-01.
- CONFIRM LOCATIONS OF ALL OPENINGS BEFORE PREPARATION OF SHOP DRAWINGS.
- FOR FRAMING REINFORCEMENT AT OPENINGS THROUGH ROOF. REFER TO TYPICAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS FOR SPRAY FIREPROOFING OR OTHER MEASURES TO ACHIEVE REQUIRED FIRE RATING.
- REFER TO ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSIONS, HOUSEKEEPING PADS, TRENCHES, ETC.
- DESIGN ALL BEAM CONNECTIONS FOR THE FACTORED VERTICAL SHEAR FORCE NOTED ON PLAN WHERE NO FORCE IS INDICATED DESIGN THE CONNECTION FOR A VERTICAL SHEAR FORCE OF 75 kN. IN ADDITION, A MINIMUM OF TWO BOLTS ARE TO BE USED TO IN ALL BEAM CONNECTIONS.
- FORCES SHOWN AS CI AND TI ARE FACTORED AXIAL TENSILE AND COMPRESSIVE FORCES IN kN. FORCES SHOWN AS MI AND VI ARE FACTORED MOMENT AND SHEAR FORCES IN kN-m UNITS.

CHILLER PLATFORM NOTES

- IF DIMENSIONS OF NEW CHILLER PERMITS PLACING THE CHILLER ON EXISTING CHILLER FRAMING, PROVIDE THE FOLLOWING INFORMATION TO DEPARTMENTAL REPRESENTATIVE TO VERIFY ITS STRUCTURAL CAPACITY.
a. CENTER TO CENTER SPACING OF EXISTING SUPPORT IN BOTH DIRECTIONS.
b. SIZE OF BEAMS ON TOP OF SUPPORT.
- IF NEW CHILLER DOES NOT FIT ON EXISTING FRAMING OR EXISTING FRAMING CAPACITY IS FOUND TO BE INADEQUATE, DISMANTLE AND REMOVE EXISTING FRAMING.
- INSTALL NEW FRAMING AS SHOWN.
- VERIFY AND COORDINATE ALL DIMENSIONS AND LOCATION WITH MECHANICAL DRAWINGS. DIMENSIONS SHOWN ARE APPROXIMATE.
- ALL STRUCTURAL STEEL INCLUDING BASE PLATE AND ANCHOR BOLTS TO BE HOT DIPPED GALVANIZED.
- CONNECT HSS 127x76 TO HSS STEEL POST WITH THE FOLLOWING CONNECTION FORCES VI = 20 kN, MI = 20 kN-m WHERE SYMBOL ► IS SHOWN.
- CONNECT STEEL BRACE FOR CONNECTION FORCES CI = TI = 50 kN.
- VI AND MI ARE FACTORED SHEAR AND MOMENT FORCES. CI AND TI ARE FACTORED AXIAL COMPRESSION AND TENSION FORCES.

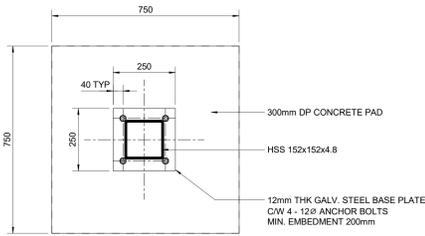
MECHANICAL FLOOR FRAMING PLAN

- REMOVE EXISTING FLOOR FINISH BEFORE PLACING OVERLAY.
- DEPTH OF OVERLAY SHALL NOT EXCEED 13 MM ANYWHERE ON FLOOR.



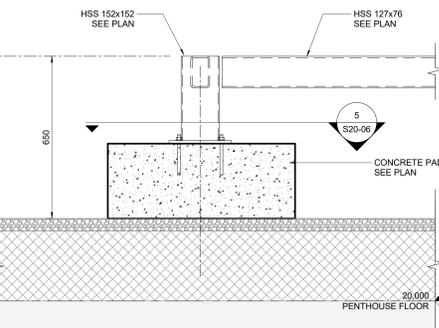
6 CHILLER PLATFORM 3D VIEW

SCALE: 1:100



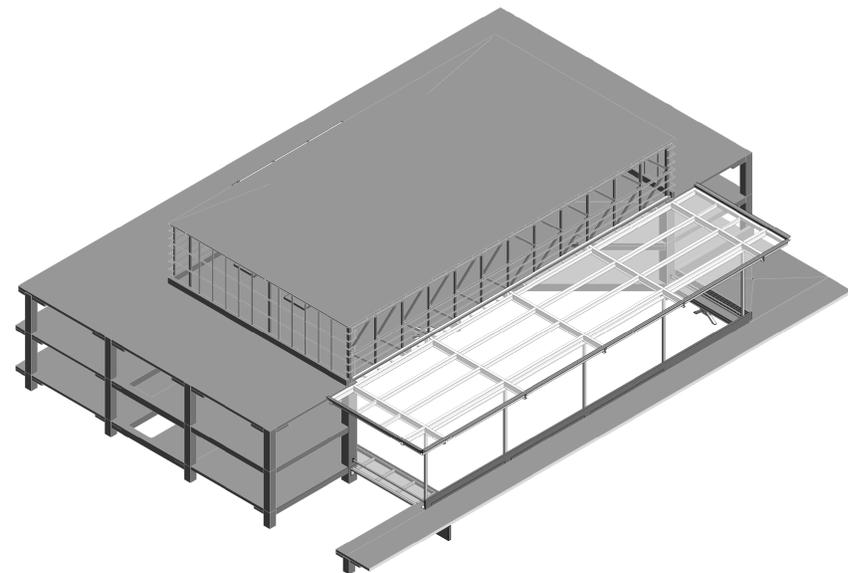
5 DETAIL

SCALE: 1:10



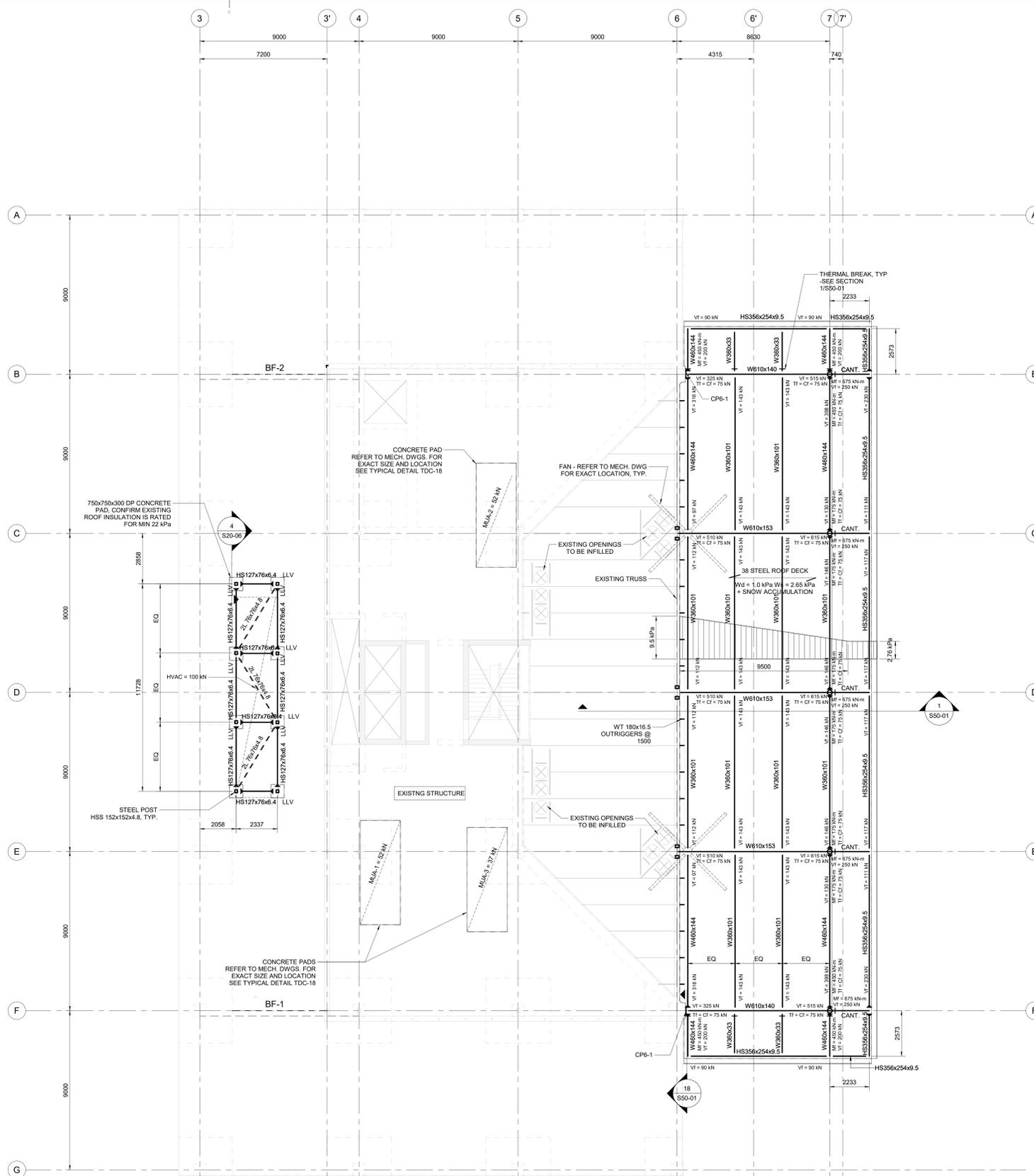
4 DETAIL

SCALE: 1:10



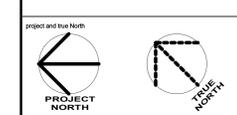
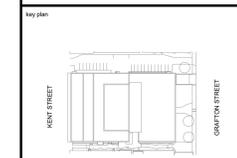
2 ATRIUM ROOF 3D VIEW

SCALE: 1:200



1 ATRIUM ROOF FRAMING PLAN - PENTHOUSE LEVEL

SCALE: 1:100



project legend

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2022

Faisal Jahangir
No. 2558

DATE: 27-05-2022

LICENSED PROFESSIONAL ENGINEER PROVINCE OF PRINCE EDWARD ISLAND

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revisions	date
DANIEL J MACDONALD	
MODERNIZATION	

161 GRAFTON STREET CHARLOTTETOWN, PEI C1A 1L1

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