



REQUEST FOR TENDER No. 21-012

Church Road Transfer Station Residential Transfer Building Upgrade

Addendum 1

Issued: September 8, 2021

Closing Date & Time: on or before 3:00 PM Pacific Time on September 29, 2021

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

ADD:

Herold Engineering Ltd. Structural Drawings S01 and S04

End of Addendum 1

STRUCTURAL STEEL HEL-024

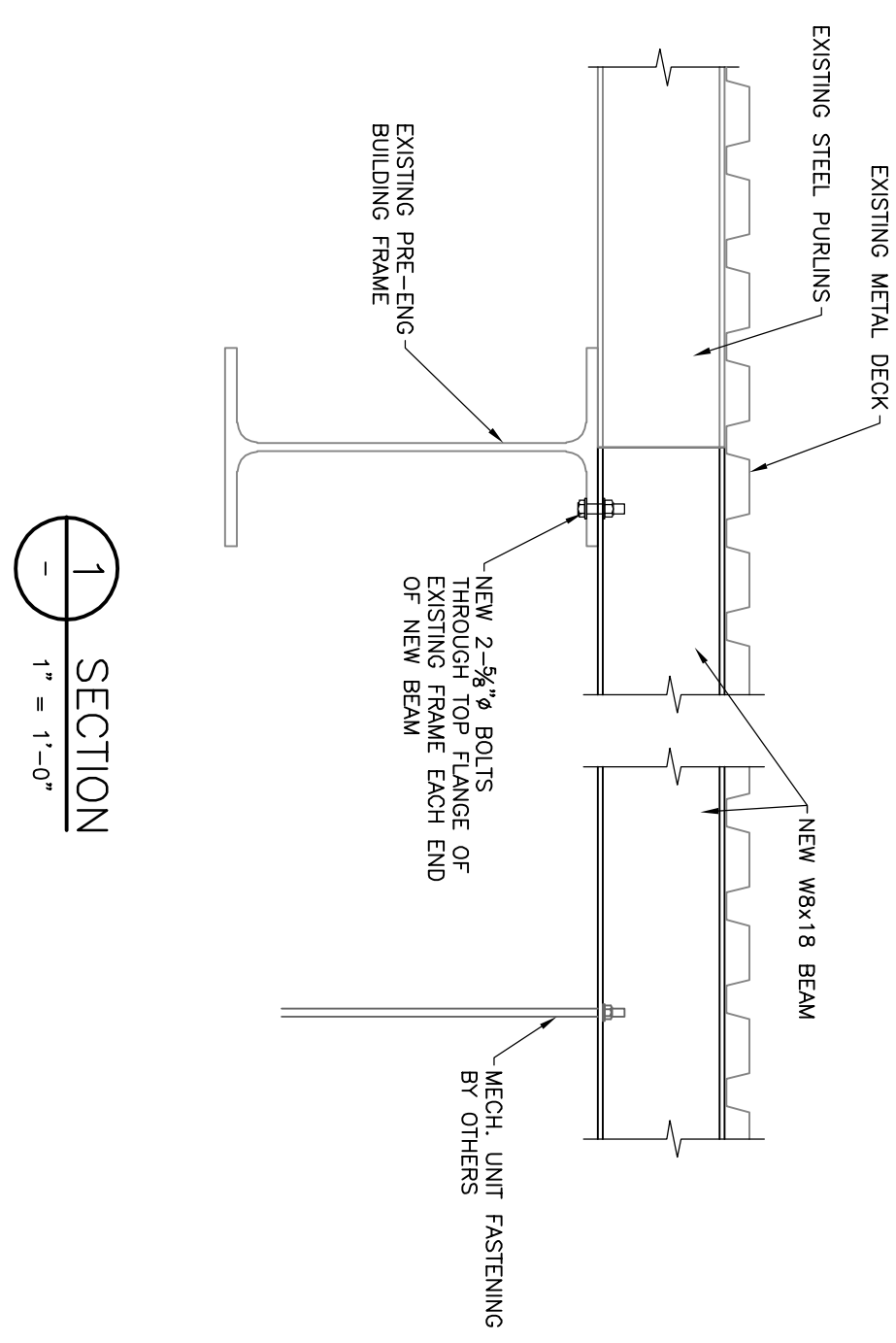
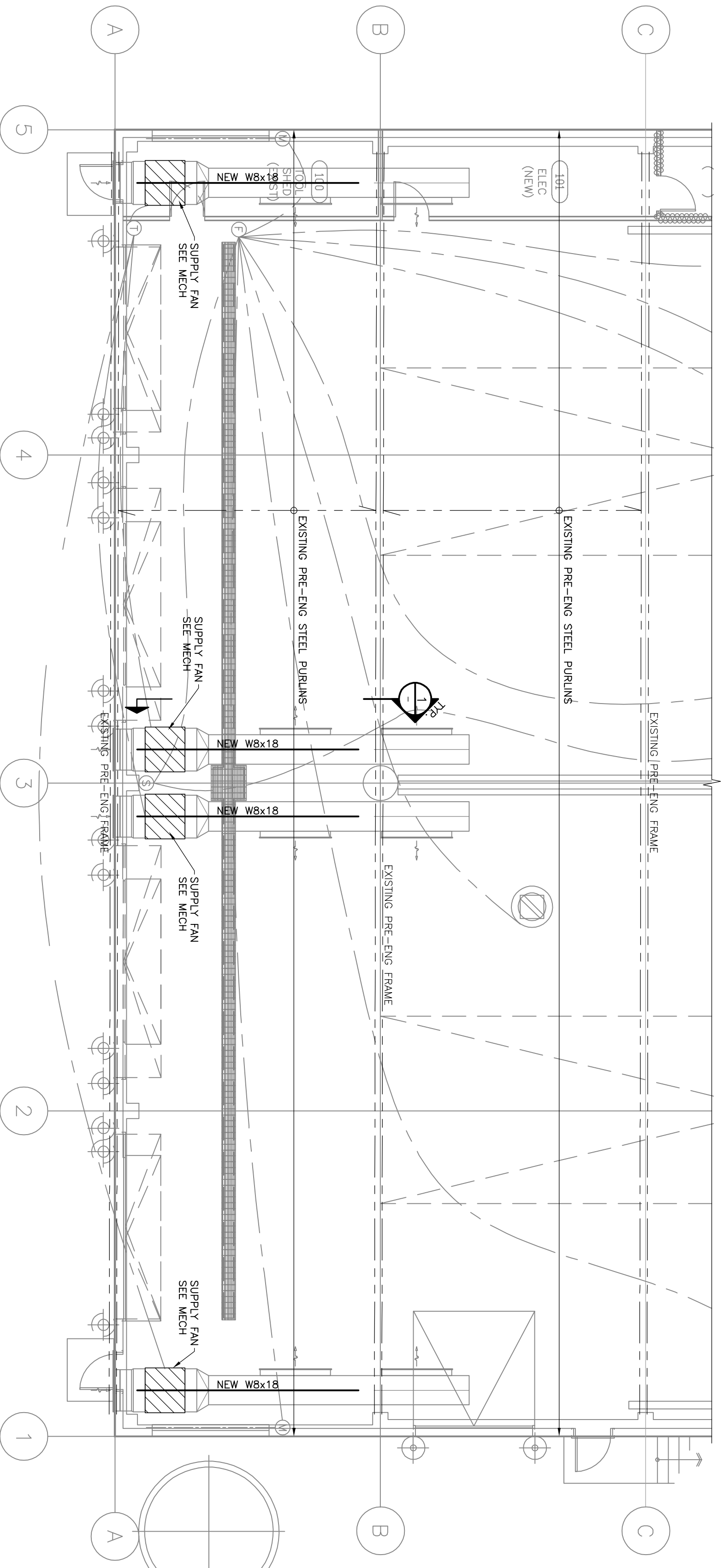
1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH CSA-S16 AND THE REVIEWED SHOP DRAWINGS.
2. THE STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS AS SPECIFIED UNDER SUBMITTALS TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. THE FABRICATOR SHALL INDICATE ALL DETAILS, FINISHES, FABRICATIONS, MATERIAL SPECIFICATIONS, FINISHES AND DESIGN LOADS.
3. A COPY OF THE FABRICATOR'S CANADIAN WELDING BUREAU CERTIFICATES SHALL BE INCLUDED WITH THE SHOP DRAWING SUBMISSION.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA W59 AND SHALL BE PERFORMED BY FABRICATORS' FULLY TRAINED WELDERS. THE WELDING SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1 AND CSA W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS. THE FABRICATOR SHALL SUBMIT PROOF OF CERTIFICATION PRIOR TO START OF WORK.
5. ALL WELDING ELECTRODES SHALL CONFORM TO CSA W48.
6. JOINTS THAT ARE TO BE WELDED SHALL BE KEPT FREE OF ALL FOREIGN MATTER INCLUDING PAINT, PRIMER OR OTHER COATINGS WHICH COULD BE DETRIMENTAL TO ACHIEVING A SOUND WELDMENT.
7. CONNECTIONS NOT DETAILD ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS CONNECTION DETAILS ARE SCHEMATIC ONLY AND FINAL CONNECTION CONFIGURATION IS THE RESPONSIBILITY OF THE FABRICATOR. USE A MINIMUM OF 2-A20 (5/8") A325 BOLTS PER CONNECTION. CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST ALL APPLIED LOADS. CONNECTIONS SHALL BE DESIGNED TO RESIST FORCES, MOMENTS AND SHEARS INDICATED ON THE PLANS. IN INSTANCES OF NON-COMPLIANCE THE FABRICATOR SHALL BE RESPONSIBLE FOR ADDITIONAL COSTS ASSOCIATED WITH ACHIEVING COMPLIANCE WITH THE STANDARD.
8. CONNECTIONS DETAILD ON THESE STRUCTURAL DRAWINGS SHALL BE FABRICATED AND ERRECTED AS SHOWN. FABRICATORS SHALL BE RESPONSIBLE FOR THE SIZE AND DISTRIBUTION OF THE STRUCTURAL MEMBER OF RECORD. FABRICATORS SHALL BE RESPONSIBLE FOR THE SIZE AND DISTRIBUTION OF THE STRUCTURAL MEMBER OF RECORD. ADDITIONAL COST TO THE OWNER AND SHALL NOT NEGATIVELY IMPACT THE CONSTRUCTION SCHEDULE.
9. FABRICATOR SHALL INCREASE WELD SIZES TO ACCOMMODATE SLOP WOUNDS SO THAT LEG SIZE AS SPECIFIED IS FULLY ON STEEL CONNECTION ELEMENT. FINAL WELD SIZE TO BE SHOWN ON THE SHOP DRAWINGS.
10. BOLTS AND ANCHOR RODS SHALL BE LONG ENOUGH THAT THE END OF THE BOLT OR ROD IS OUTSIDE THE FACE OF THE NUT.
11. ALL BOLTS WITH OVERSIZED BOLT HOLES SHALL BE SUP CRITICAL.
12. SECONDARY STRUCTURAL ELEMENTS ARE TO BE DETAILD SUCH THAT THEY DO NOT IMPOSE DIRECT LOAD TRANSFER TO THE SPRS (SEISMIC FORCE RESISTING SYSTEM) WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
13. ALL WELDED, HEADED STUDS, AND WELDED DEFORMED BAR ANCHORS SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS IN ACCORDANCE WITH CSA W55.3.
14. DO NOT FIELD CUTTING OR ALTERATION OF STRUCTURAL MEMBERS IS TO OCCUR WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
15. IF ANCHOR BOLTS ARE MISPLACED OR BOLT HOLES MISALIGNED, INFORM THE ENGINEER.
16. EXCEPT PARTS OF MEMBERS TO BE EMBEDDED IN CONCRETE OR GALVANIZED OR UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL STEEL WORK SHALL BE SHOP PRIMED. PRIMING SHALL BE IN ACCORDANCE WITH CISC/CPMA-1-25 QUICK DRYING PRIMER. WHEN NO TOP COAT IS REQUIRED AND IN ACCORDANCE WITH CISC/CPMA-1-25 QUICK DRYING PRIMER, WHEN NO TOP COAT IS REQUIRED AND IN ACCORDANCE WITH SELECTED FINISHING COMPATIBILITY WITH THE SPECIFIED SYSTEM. FINISHES SPECIFIED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED TO ASTM A123/A123M, MINIMUM ZINC COATING OF 600g/m². FIELD TOUCH-UP ALL ABRASIONS, SCRATCHES, WELDS OR BOLTS WITH GALVACON OR EQUIVALENT.
17. ALL EXTERIOR STEEL WORK AND STEEL PROTRUDING THROUGH THE BUILDING ENVELOPE SHALL BE HOT DIP GALVANIZED.
18. GROUT UNDER BASE PLATES TO BE NON-SHRINK 48 MPa (7000 psi) AT 28 DAYS.
19. PROVIDE STRUCTURAL STEEL TO CSA G40.20-04/G40.21-04 OR ASTM A992 WITH THE FOLLOWING GRADES:
PIPE RAILINGS 240W (35W) TO ASTM A53
WIDE FLANGE BEAMS AND COLUMNS 350W (50W) OR ASTM A992/A992M OR ASTM A913/A913M
CHANNELS AND ANGLES GRADE 50
HSS SECTIONS 300W (40W) OR ASTM A588 CLASS C OR ASTM 1085
MISCELLANEOUS STEEL PLATES 300W (44W)
20. BOLT SIZES SHALL BE AS NOTED ON DRAWINGS AND DETAILS. PROVIDE BOLTS TO CSA G40.21-04 WITH THE FOLLOWING GRADES:
FRONT END CONNECTIONS: ASTM A325 UNLESS NOTED OTHERWISE
ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F1554, GRADE 36 (36ksi YIELD STRENGTH)
21. WHEN ASTM A992/A992M BOLTS ARE USED, THEY SHALL HAVE A ZINC ALUMINUM COATING MEETING THE REQUIREMENTS OF ASTM F1136 GRADE 3. CORROSIONING WASHERS SHALL BE COATED AS PER ASTM F1136 GRADE 3 DP-SPIN, AND NUTS SHALL BE COATED AS PER ASTM F1136 GRADE 5 DP-SPIN.
22. THREADED ROD SHALL BE TO ASTM F1554 GRADE 36 (36 ksi YIELD STRENGTH)
23. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION. THE BRACING SHALL BE DESIGNED AND DETAILD BY THE CONTRACTOR AND SHALL BE INSTALLED AND BRACING ARE COMPLETE AFTER PERMANENT ROOF AND FLOOR DECKING, SHEAR WALLS AND BRACING ARE COMPLETE.
24. THE CONTRACTOR SHALL PROVIDE SEAL WELDED CLOSEURE PLATES AT ALL OPEN ENDS OF EXTERIOR HSS COLUMNS. PLATE THICKNESS SHALL BE A MINIMUM OF 6 mm (1/4") UNLESS NOTED OTHERWISE.
25. THE ARCHITECT IS RESPONSIBLE FOR ENSURING ADEQUATE FIRE PROTECTION FOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH CAN/ULC-S101.

SUBMITTALS HEL-003

1. WHERE SHOP DRAWINGS ARE REQUESTED IN THE GENERAL NOTES THE CONTRACTOR SHALL PROVIDE THEM IN EITHER HARD COPY OR DIGITAL FORMAT TO THE FOLLOWING REQUIREMENTS FOR THE ENGINEER'S REVIEW FROM FABRICATION. THE SHOP DRAWINGS SHALL INDICATE DETAILS, DIMENSIONS, MATERIALS AND DESIGN LOADS.
2. IF HARD COPY FORMAT IS USED FIVE PAPER COPIES SHALL BE SUBMITTED UNLESS NOTED OTHERWISE THEY CANNOT BE SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA.
3. DRAWINGS NOT SEALED BY THE SPECIALTY ENGINEER SHALL BE ACCOMPANIED BY A LETTER WITH A DRAWING LIST IDENTIFYING DRAWING NUMBERS, TITLES, MOST RECENT REVISION NUMBERS AND DATES. THE LETTER AND DRAWING LIST ARE TO BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
4. IF A DIGITAL SUBMISSION IS MADE THE FILES SHALL BE IN PDF FORMAT ON A DISC OR TRANSMITTED VIA E-MAIL. THE SUBMISSION SHALL CONTAIN A LETTER WITH A DRAWING LIST AS DESCRIBED ABOVE SIGNED AND SEALED BY THE SPECIALTY ENGINEER. THE FINAL SUBMISSION SHALL BE MADE AS A HARD COPY OF BRITISH COLUMBIA SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA.
5. THE FOLLOWING SUBMISSIONS ARE REQUIRED FOR THIS PROJECT:
STRUCTURAL STEEL SHOP DRAWINGS*
STRUCTURAL STEEL CONNECTION DESIGN NOTES*
* INDICATES THE REQUIREMENT THAT SUBMISSION BE SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA AND PROVIDE A SCHEDULE 'S' UPON COMPLETION OF THE WORK.
SHOP DRAWINGS WHICH ARE REQUIRED TO, BUT DO NOT HAVE THE APPROPRIATE ENGINEERS SEAL AND SIGNATURE WILL NOT BE REVIEWED.
6. SHOP DRAWINGS WILL BE REVIEWED ONLY FOR GENERAL CONFORMITY WITH THE PROJECT DRAWINGS AND SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ERRORS AND OMISSIONS ON THE SHOP DRAWINGS.
8. SHOP DRAWING SUBMISSIONS FOR THE WORK OF SPECIALTY ENGINEERS SHALL BE AS SET OUT IN THIS SECTION.
9. THE QUALITY ASSURANCE FOR MATERIALS FABRICATION AND INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SPECIALTY ENGINEER.
10. THE SPECIALTY ENGINEER OR HIS REPRESENTATIVE SHALL VISIT THE SITE AND REVIEW THE COMPLETED WORK AND ASSEMBLIES ARE IN COMPLIANCE WITH THE ENGINEERED DESIGN. THE SPECIALTY ENGINEER SHALL THEN PROVIDE THE PROJECT ENGINEER OF RECORD WITH A COMPLETED SCHEDULE 'S' FOR THIS WORK ALONG WITH ANY SKETCHES SHOWING FIELD MODIFICATIONS. THESE SKETCHES SHALL BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER.

FIELD REVIEWS HEL-005

1. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MINIMUM OF 24 HOURS (1 WORKING DAY) ADVANCE NOTICE FOR FIELD REVIEWS.
2. THE FOLLOWING FIELD REVIEWS ARE CONSIDERED TO BE THE MINIMUM NUMBER OF STRUCTURAL FIELD REVIEWS REQUIRED FOR THE PROJECT:
STRUCTURAL STEEL SHALL BE REVIEWED AFTER THE MEMBERS HAVE BEEN FABRICATED AND ARE IN THEIR FINAL POSITION WITH ALL CONNECTIONS COMPLETE AND ALL BOLTS INSTALLED AND TIGHTENED.
3. IF THE ENGINEER IS NOT PROVIDED WITH THE OPPORTUNITY TO PERFORM THE REQUIRED FIELD REVIEWS, FINAL CERTIFICATION OF THE PROJECT WILL NOT BE ISSUED.



MECH. PLAN UNDERLAY
PARTIAL ROOF KEY PLAN
N/S

ISSUES	NO.	DATE	ISSUED FOR
	02	2021.09.09	TENDER

ISSUED FOR TENDER

CRIS - RESIDENTIAL TRANSFER BUILDING
6300 HAMMOND BAY ROAD NANAIMO BC V9T 6N2
REGIONAL DISTRICT OF NANAIMO

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Email: mh@heroldengineering.com

NEW SUPPORT FOR SUSPENDED MECH. UNITS

DESIGNED	ENGINEER'S SEAL
LG	
DESIGN REVIEW	
DRAFTED	
EC	
DRAFTING REVIEW	
PROJECT No.	CLIENT DRAWING No.
0837-068	n/o
SCALE	PERMIT No.
AS SHOWN	n/a
HEL DRAWING No.	REVISION
S04	02