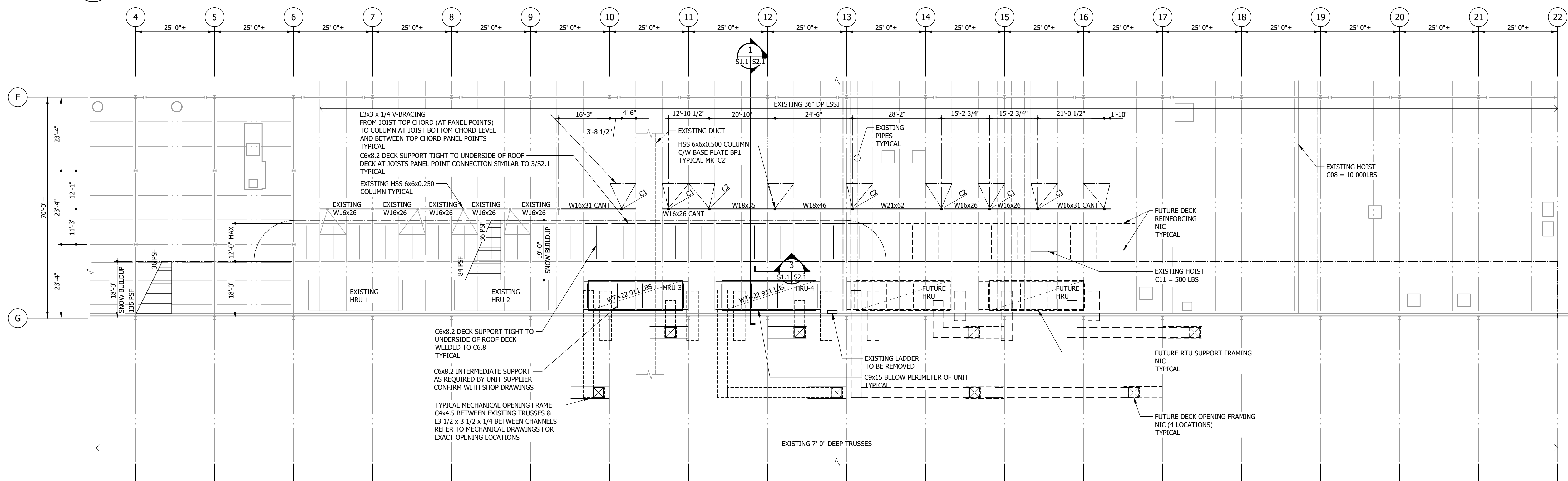


PARTIAL FOUNDATION PLAN
1/16" = 1'-0"



PARTIAL ROOF FRAMING PLAN
1/16" = 1'-0"

- DESIGN LOADS:**
- DEAD LOAD = 18 PSF
 - SNOW LOAD = 36 PSF + SNOW BUILDUP
 - JOIST LOCATIONS SHOWN ARE APPROXIMATE ONLY, SITE CONFIRM LOCATION AND JOIST PROFILE PRIOR TO COMMENCING FABRICATION.
 - ALL STEEL COLUMNS ARE TO BE COMPLETED WITH 1'-0" x 1'-0" STEEL BASE PLATE WITH 4-3/4"Ø x 18" LONG C/W 3" HOOK ANCHOR BOLTS.
 - SEE DRAWING S2.1 FOR JOIST MODIFICATION ELEVATIONS.

GENERAL NOTES

- STRUCTURAL DESIGN BASED ON THE MANITOBA BUILDING CODE 2024. ALL CODES AND STANDARDS SHALL BE THE EDITIONS DESIGNATED IN DIVISION 8 TABLE 1.3.1.2.
- DO NOT SCALE DRAWINGS.
- DO NOT BACKFILL UNTIL GROUND FLOOR STRUCTURE IS IN PLACE AND BASEMENT SLABS HAVE BEEN POURED AND CURED.
- ALL DIMENSIONS ARE TO BE VERIFIED WITH THE MECHANICAL DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO ALL TEMPORARY SHORING/BRACING.
- THE EXISTING BUILDING SUPERSTRUCTURE AND FOUNDATIONS HAVE BEEN REVIEWED AND CAN SUPPORT ALL NEW LOADING CONDITIONS SHOWN ON THESE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE 2020 NATIONAL BUILDING CODE OF CANADA, UNLESS NOTED OTHERWISE.
- PORTIONS OF THE GROUND FLOOR STRUCTURE CONSIST OF A GRADE-SUPPORTED CONCRETE FLOOR SLAB DUE TO THE NATURE OF SLABS ON GRADE. DIFFERENTIAL MOVEMENT MAY OCCUR WITH FREEZING AND THAWING OR CHANGES IN MOISTURE CONTENT OF THE UNDERLYING SOILS. POTENTIAL FOR MOVEMENT HAS BEEN IDENTIFIED IN THE GEOTECHNICAL REPORT AND IS A RISK FOR THIS TYPE OF CONSTRUCTION. SUCH MOVEMENT MAY CAUSE DAMAGE TO FINISHES AND MIGHT AFFECT OPERATION OF DOORS AND WINDOWS. BY REVIEWING THESE PLANS, THE OWNER ACCEPTS THE RISK RELATED TO SLAB-ON-GRADE MOVEMENTS AND RESULTING DAMAGE THAT OCCURS.

DESIGN NOTES

- LIVE LOADS**
 - SEE NOTES ON PLANS. ALL LOADS ARE UNFACTORED UNLESS NOTED.
- SNOW LOADS**
 - GROUND SNOW LOAD $S_g = 36$ P.S.F.
 - ASSOCIATED RAIN LOAD $S_r = 4.2$ P.S.F.
 - SNOW IMPORTANCE FACTOR $I_s = 1.0$ (U.S.) 0.9 (C.S.)
- WIND LOADS**
 - WIND LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE STATIC PROCEDURE OUTLINED IN NBC2020 CLAUSE 4.17.3.
 - HOURLY WIND PRESSURE $q = 14.4$ P.S.F.
 - WIND IMPORTANCE FACTOR $I_w = 1.0$ (U.S.) 0.75 (C.S.)
 - EXPOSURE FACTOR C_e BASED ON ROUGH TERRAIN
- EARTHQUAKE LOADS**
 - THE REPORT PUBLISHED IN APRIL 2020 BY THE NRC ON RECOMMENDATIONS FROM THE JOINT TASK GROUP OF THE CANADIAN COMMISSION ON BUILDING AND FIRE CODES AND THE PROVINCIAL AND TERRITORIAL POLICY ADVISORY COMMITTEE ON CODES, INDICATES THAT WHEN MAINTENANCE, REPAIR, OR REPLACEMENT OF COMPONENTS WITH SIMILAR COMPONENTS IS PERFORMED IN AN EXISTING BUILDING, UPGRADES TO CURRENT CODE REQUIREMENTS SHOULD ONLY BE CONSIDERED ON A VOLUNTARY BASIS BY THE BUILDING OWNER. THIS EXEMPTION FROM UPGRADES TO MEET CURRENT CODES APPLIES AS LONG AS THE PERFORMANCE OF THE BUILDING IS NOT REDUCED BY THE MAINTENANCE, REPAIR, OR REPLACEMENT WITH SIMILAR COMPONENTS INTERVENTION BEING CONSIDERED.
 - THE SCOPE OF STRUCTURAL WORK INDICATED ON THESE DRAWINGS IS A REPAIR TO ADDRESS DAMAGE OR DETERIORATION TO REINSTATE OR ENHANCE THE ORIGINALLY INTENDED STRUCTURAL PERFORMANCE OF THE BUILDING. THE SCOPE OF WORK DOES NOT REDUCE THE ORIGINALLY INTENDED STRUCTURAL PERFORMANCE. THE STRUCTURAL WORK DOES NOT INCLUDE A CHANGE IN BUILDING OCCUPANCY, DOES NOT INCLUDE REMOVAL, REDUCTION, OR AUGMENTATION OF EXISTING HORIZONTAL LOAD BEARING ELEMENTS, AND DOES NOT CONSTITUTE AN ADDITION TO THE BUILDING.
 - CONSIDERING ITEMS A AND B ABOVE, THE SEISMIC DESIGN PROVISIONS OF THE 2020 MANITOBA BUILDING CODE DO NOT APPLY TO THE PROPOSED SCOPE OF REPAIRS ON THIS PROJECT AND THEREFORE WERE NOT CONSIDERED IN THE SCOPE OF DESIGN AND CONSTRUCTION.
- STRUCTURAL MOVEMENTS**
 - TYPICAL HORIZONTAL ELEMENTS HAVE BEEN DESIGNED SO THAT THE THEORETICAL VERTICAL DEFLECTIONS WILL NOT EXCEED L/300
 - NON-STRUCTURAL ELEMENTS SUCH AS THE BUILDING ENCLOSURE, MECHANICAL, AND ELECTRICAL SERVICES AND SUPPORTS MUST BE DESIGNED AND DETAIL TO ACCOMMODATE THE ANTICIPATED MOVEMENTS NOTED ABOVE.

FOUNDATIONS

- FOUNDATION DESIGN BASED ON THE ASSUMED VALUES AS NOTED BELOW AND TO BE CONFIRMED VIA THE LETTER OF COMMITMENT PROCEDURE DURING INSTALLATION.
- NOTWITHSTANDING THE INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT, THE FOUNDATION AND GENERAL CONTRACTORS SHALL SATISFY THEMSELVES AS TO THE PREVAILING CONDITIONS AT THE SITE AS EXTRAS SHALL BE GRANTED SHOULD CONDITIONS DIFFER FROM THOSE INDICATED.
- ALL FRICTION PILES ARE DESIGNED BASED ON THE FOLLOWING:

A) COMPRESSIVE	100 (P)	0	0	0	0
	8	25	375	372	
	0	49	200	166	

 U.S. P.S.F. / C.S. P.S.F.
- USE SKIN FRICTION VALUES ARE TO BE HAVING BEEN MULTIPLIED BY A GEOTECHNICAL RESISTANCE FACTOR OF 0.4
- EFFECTIVE LENGTH OF FRICTION PILES IS TOTAL LENGTH AS SHOWN ON PLAN MINUS 6' OF FREE INTERIOR PILES PLUS 0.5M ON GRADE.
- FRICTION PILE REINFORCING TO BE 20' 0" LONG UNLESS NOTED IN PLANS. 10M RINGS AT 48 IN. ON-CENTRE AND 3.1M RINGS AT 6 IN. ON-CENTRE AT TOP. EXTEND VERTICAL PILE REINFORCING 1'-0" INTO BEAMS OR WALLS. PILE REINFORCING TO BE 5-10M FOR 18 IN., 5-15M FOR 20 IN., 5-15M FOR 22 IN., 4-15M FOR 24 IN.
- ALL FOUNDATION INSTALLATIONS SHALL BE REVIEWED BY QUALIFIED GEOTECHNICAL PERSONNEL REPORTING TO THE GEOTECHNICAL ENGINEER THAT ISSUED THE SITE-SPECIFIC GEOTECHNICAL REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF PART 4 OF THE MANITOBA BUILDING CODE.
- REMOVAL OF UNSUITABLE MATERIALS, SUBGRADE PREPARATIONS AND COMPACTED GRANULAR FILL FOR ALL SLABS SUPPORTED ON GRADE AS PER SITE-SPECIFIC GEOTECHNICAL REPORT.

CAST-IN-PLACE CONCRETE

- CONCRETE
 - ALL CONCRETE TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH CSA-A23.1-19 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.1-19 "TEST METHODS AND STANDARD PRACTICES FOR CONCRETE"
 - PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CSA-A23.1 CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
 - PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA-A23.1 CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
 - CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH CSA-A23.1-19. MINIMUM ONE SET OF TESTS PER POUR. COST OF TESTING TO BE CARRIED BY THE CONTRACTOR.
 - CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

MIN. MIN. AT 28 DAYS	CLASS OF EXPOSURE	AIR CONTENT CATEGORY
25 MPa (3600 PSI)	S-2 (4% TO 7%)	2
CEMENT TYPE: HS	AGGREGATE: MAX 20mm	CURING TYPE: TYPE 2 - ADDITIONAL SLUMP: MIN. 120mm

REINFORCING STEEL

- ALL REINFORCING STEEL TO CONFORM TO CSA-G30.18-19 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT"
- ALL REINFORCING STEEL TO CONFORM TO CSA-G30.18-19 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT"
- ALL REINFORCING STEEL TO BE HELD IN PLACE AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS H-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. H-CHAIRS TO HAVE 4 LEGS AND TO BE STAKED OR WEALED TO THE FORMWORK.
- ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLOWWORK TO BE TRIMMED WITH 1.5M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
- ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 18 IN. O.C. EACH WAY, UNLESS NOTED.

PLES

- EXPOSURE CLASS: S-2
- 3 M TO TIES
- IN SLABS ON GRADE, BARS TO BE LAPPED WITH CLASS A TENSION SPLICES, EXCEPT AS NOTED.
- ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS H-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. H-CHAIRS TO HAVE 4 LEGS AND TO BE STAKED OR WEALED TO THE FORMWORK.
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- ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 18 IN. O.C. EACH WAY, UNLESS NOTED.

STRUCTURAL STEEL

- THE STRUCTURAL STEEL FABRICATOR'S ENGINEER SHALL BE RESPONSIBLE FOR LOCATING AND DESIGNING PROVISIONS FOR ALL TEMPORARY FALL PROTECTION SYSTEMS REQUIRED DURING CONSTRUCTION TO MEET MANITOBA WORKPLACE HEALTH AND SAFETY REGULATIONS.
- THE STRUCTURAL STEEL ERECTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND DIRECTING ALL TEMPORARY GUYING AND BRACING OF THE STEEL FRAMING TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. THESE SHALL REMAIN IN PLACE UNTIL ALL JOIST MODIFICATION, STEEL BEAMS AND COLUMNS ARE INSTALLED.
- STRUCTURAL STEEL TO CONFORM TO CSA-G40.21-18 "STRUCTURAL QUALITY STEEL" AND CSA-G40.21-18 GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL, ASTM A572/A572M "STANDARD SPECIFICATION FOR HIGH STRENGTH LOW ALLOY STEEL STRUCTURAL STEEL" OR ASTM A572/A572M "STANDARD SPECIFICATION FOR HIGH STRENGTH LOW ALLOY STEEL STRUCTURAL STEEL" OR ASTM A572/A572M "STANDARD SPECIFICATION FOR HIGH STRENGTH LOW ALLOY STEEL STRUCTURAL STEEL".
- ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-300W, ASTM A572 GRADE 50. ALL HOLLOW STRUCTURAL SECTIONS TO BE G40.21-300W CLASS C OR ASTM A500-C. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-300W.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CSA S16-19, "DESIGN OF STEEL STRUCTURES".
- ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W59.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
- STRUCTURAL STEEL SUPPLIER TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA COVERING THE DESIGN OF CONNECTIONS, TO THE PROJECT DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONNECTION DESIGN TO INCLUDE FOR ALL ADJUSTABLE CONNECTIONS REQUIRED TO SUIT FABRICATION AND ERECTION PROCEDURES AND TOLERANCES.
- ALL BOLTED CONNECTIONS TO USE A508 HIGH STRENGTH BOLTS. MINIMUM CONNECTION SHALL CONSIST OF 2 BOLTS.
- ALL STRUCTURAL STEEL TO RECEIVE ONE COAT OF CISCOPRIMA 17-20 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7. RECEIVING FINISH PAINTING TO HAVE ONE COAT OF CISCOPRIMA 275 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7.
- NO HOLES PERMITTED IN TOP FLANGE OF BEAMS AT COLUMNS WHERE BEAMS ARE CONTINUOUS OVER COLUMNS.
- ALL BEAMS CONTINUOUS OVER COLUMNS TO HAVE WEB STIFFENERS THE SAME SIZE AND ORIENTATION AS THE COLUMN BELOW, UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS TO BE ASTM A307 GRADE C OR ASTM F1554 GRADE 36, WELDABLE, PROVIDED BY STEEL SUPPLIER AND SET BY THE GENERAL CONTRACTOR, WHERE ASTM F1554 GRADE 36 ANCHOR BOLTS TO BE WELDABLE GRADE STEEL.
- FABRICATOR TO NOTIFY ENGINEER OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
- THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE ENGINEER.
- ALL OPENINGS LARGER THAN 18 IN. x 18 IN. THROUGH STEEL DECK TO BE FRAMED WITH 1.3 x 1.4 ANGLES ALL AROUND, EXCEPT AS NOTED. SMALLER OPENINGS THROUGH STEEL DECK TO BE STIFFENED BY STEEL DECK SUPPLIER WHEN STEEL DECK CHANGES ITS FRAMING DIRECTION. USE 1.2 x 1.2 x 1.2 IN. ANGLE TO SUPPORT EDGE.

DUST TIGHT SCREENS

- CONTRACTOR TO ENSURE THE FOLLOWING DUST MONITORING/CONTROL MEASURES ARE IN PLACE:
 - PROVIDE DUST TIGHT SCREENS TO LOCALIZE DUST GENERATING ACTIVITIES, AND FOR PROTECTION OF WORKERS FINISHED AREAS OF WORK, AND PUBLIC.
 - MAINTAIN AND RELOCATE PROTECTION UNTIL SUCH WORK IS COMPLETE.
 - DUST CONTROL TO CONFORM WITH MANITOBA REGULATION 211/2006 - WORKPLACE SAFETY AND HEALTH REGULATION

PLES

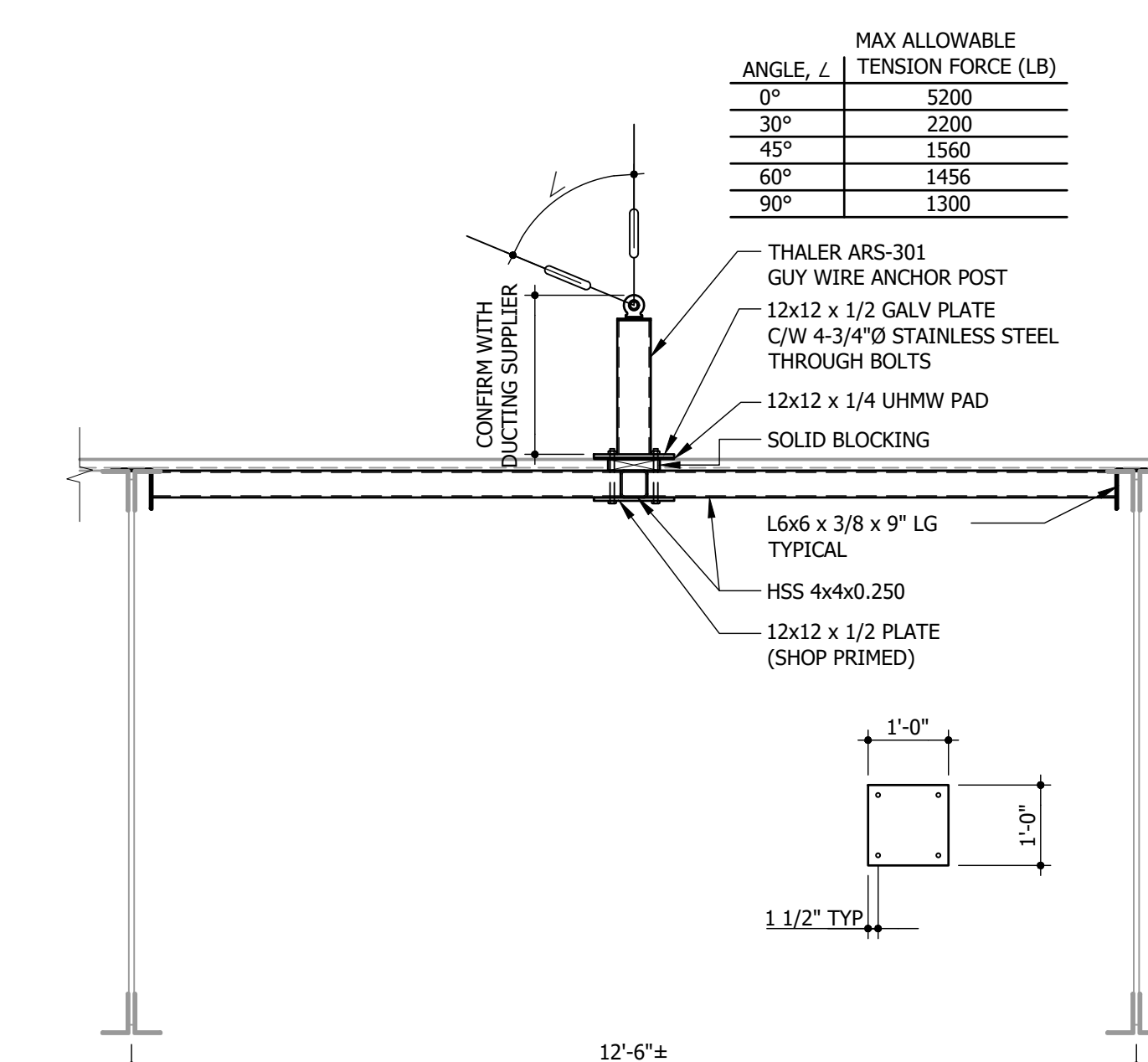
- EXPOSURE CLASS: S-2
- 3 M TO TIES
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- ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS H-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. H-CHAIRS TO HAVE 4 LEGS AND TO BE STAKED OR WEALED TO THE FORMWORK.
- ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLOWWORK TO BE TRIMMED WITH 1.5M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
- ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 18 IN. O.C. EACH WAY, UNLESS NOTED.

FOUNDATIONS

- FOUNDATION DESIGN BASED ON THE ASSUMED VALUES AS NOTED BELOW AND TO BE CONFIRMED VIA THE LETTER OF COMMITMENT PROCEDURE DURING INSTALLATION.
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A) COMPRESSIVE	100 (P)	0	0	0	0
	8	25	375	372	
	0	49	200	166	

 U.S. P.S.F. / C.S. P.S.F.
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- REMOVAL OF UNSUITABLE MATERIALS, SUBGRADE PREPARATIONS AND COMPACTED GRANULAR FILL FOR ALL SLABS SUPPORTED ON GRADE AS PER SITE-SPECIFIC GEOTECHNICAL REPORT.



GUY WIRE/ROOF ANCHOR BETWEEN TRUSSES
1/2" = 1'-0"

- GC TO COORDINATE NUMBER AND LOCATION OF GUY WIRE
 - SUPPORTS WITH DUCTING SUPPLIER.
 - POST COATING TO MATCH ROOFING.
 - NOT DESIGNED AS A FALL ARREST TIE-OFF POINT.
- DUCT SUPPORT DESIGN GUIDANCE
- DUCT SUPPORT FRAMING IS TO BE DESIGNED AND SUPPLIED BY THE DUCTING CONTRACTOR. SHOP DRAWINGS OF DUCT SUPPORTS ARE TO BE SUBMITTED FOR REVIEW AND SHALL INCLUDE DESIGN LOADING AND MAXIMUM SUPPORT LEG REACTIONS. MAXIMUM LOAD APPLIED TO ROOF FRAMING TO BE 36 PSF. SUPPORT PADS TO BE DESIGNED ACCORDINGLY TO LIMIT LOAD APPLIED TO ROOF. SUPPORT PADS TO BE CONSTRUCTED OF MATERIAL TO AVOID DAMAGE TO ROOFING MEMBRANE, OR SHALL BE PLACED ON SOPREMA SOPRANMAT ROOF PROTECTOR PADS.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crozier Kilgour & Partners Ltd.
No. 235

Crosier Kilgour
Structural Engineering & Building Performance

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NO.	Description	BY	DDMMYY

PROFESSIONAL ENGINEER
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24-256-01

Winnipeg Transit

TRANSIT MAINTENANCE AND REPAIR BUILDING MECHANICAL UPGRADE - CENTRE HIGH BAY

Project Title	TRANSIT MAINTENANCE AND REPAIR BUILDING MECHANICAL UPGRADE - CENTRE HIGH BAY		
City	WINNIPEG	Province	MANITOBA
Drawing Title	GENERAL NOTES, PARTIAL ROOF FRAMING PLAN AND PARTIAL FOUNDATION PLAN		
Drawn By	AJP	Checked By	AL
Scale	AS NOTED	Date	JAN 2025
Revision Number	0	Drawing Number	S1.1
Approved By	JAL	Project No.	24-256-01
Sheet Order	1	Sheet	1 OF 2