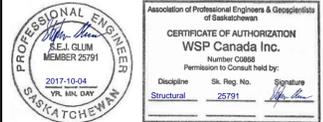


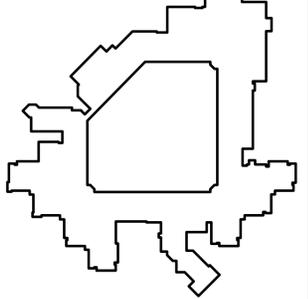
REAL PROPERTY SERVICES Western Region



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KEY PLAN



GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION OF THE EDITION REFERENCED BY THE APPLICABLE BUILDING CODE IN FORCE AT THE TIME OF BUILDING PERMIT APPLICATION.
- PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK. THIS INCLUDES ALL MATERIAL AND LABOUR TO REMOVE AND REPLACE CEILINGS AND FINISHES TO OBTAIN ACCESS TO STRUCTURE SHOWN ON THESE DRAWINGS.
- MAKE GOOD ALL EXISTING WORK DISTURBED BY CONSTRUCTION OPERATIONS AND PROCEDURES.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER DISCIPLINES, AND WITH EXISTING CONDITIONS.
- REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE.
- CONSTRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED ON DRAWINGS. FULL DESIGN LOADS AND UNIT WEIGHTS MAY ONLY BE APPLIED AFTER THE STRUCTURE REINFORCING HAS BEEN COMPLETED.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE (NBC), SUPPLEMENTED BY THE 2015 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY.
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NBC FOR THE SPECIFIC LOCATION AFFECTED BY THE MECHANICAL UNIT WEIGHTS AND SNOW DRIFTS SHOWN ON THESE DRAWINGS.
- BASED ON THE USE AND OCCUPANCY, THE REINFORCED STRUCTURE IS DESIGNED TO THE REQUIREMENTS OF A NORMAL IMPORTANCE CATEGORY.
- SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPING, FINISHES, PARTITIONS, ROOFING MATERIALS, SUSPENDED EQUIPMENT, PAVERS, SOIL, ETC.
- DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
- UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS $k_s(SLS) / k_s(ULS)$.

SHOP DRAWINGS

- SUBMIT PDF'S OF SHOP DRAWINGS FOR REVIEW BEFORE START OF WORK. PACKAGES TO BE SUBMITTED ARE NOTED IN THE RELEVANT SECTIONS BELOW.
- REVIEW OF SHOP DRAWINGS BY DEPARTMENTAL REPRESENTATIVE IS ON A SAMPLING BASIS, FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHECK AND MUST NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF HIS RESPONSIBILITY TO MAKE THE WORK ACCURATE AND IN CONFORMITY WITH ALL THE CONTRACT DOCUMENTS, TO REVIEW SHOP DRAWINGS AND TO COORDINATE WORK OF INTERFACING TRADES AND MANUFACTURE OF INTERFACING PRODUCTS.
- REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER DISCIPLINES' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THESE DRAWINGS.
- ALLOW A MINIMUM OF 5 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE DEPARTMENTAL REPRESENTATIVE'S OFFICE. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED.
- AFTER REVIEW, SHOP DRAWINGS WILL BE STAMPED AND RETURNED. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.
- SHOP DRAWINGS MARKED "REVIEWED" CAN BE USED FOR FABRICATION.
- SHOP DRAWINGS MARKED "REVIEWED AS NOTED" CAN BE USED FOR FABRICATION AFTER THE REVISIONS NOTED ARE IMPLEMENTED.
- SHOP DRAWINGS MARKED "REVISE AND RESUBMIT" REQUIRE SUBSTANTIAL REVISIONS AND MUST BE RESUBMITTED FOR ADDITIONAL REVIEW PRIOR TO FABRICATION.
- SHOP DRAWINGS MARKED "REVIEWED FOR IMPACT ON BASE STRUCTURE ONLY" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES BUT AFFECT BEHAVIOR OF THE BASE STRUCTURE. DEPARTMENTAL REPRESENTATIVE WILL NOT REVIEW THESE WORKS AND ASSUMES THAT THE INDICATED WEIGHTS AND ALL OTHER LOADS IMPOSED ON THE BASE STRUCTURE ARE CORRECTLY IDENTIFIED BY THE DESIGNER / SUPPLIER OF THESE ELEMENTS.
- DRAWINGS MARKED "NOT REVIEWED" SHOW WORKS WHICH ARE NOT WITHIN THE SCOPE OF DEPARTMENTAL REPRESENTATIVE SERVICES.

FIELD REVIEW

- DEPARTMENTAL REPRESENTATIVE WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE DEPARTMENTAL REPRESENTATIVE A GUARANTOR OF THE CONTRACTOR'S WORK.
- ASSIST THE DEPARTMENTAL REPRESENTATIVE DOING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
- CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HOURS PRIOR TO COVERING UP THE REINFORCED STRUCTURE WITH FINISHES.

EXISTING STRUCTURE

- EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY D.H. STOCK & PARTNERS LTD, DATED 1976.
- EXISTING CONDITIONS HAVE NOT BEEN CONFIRMED AT ALL LOCATIONS. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK
- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
- SCHEDULE WORK TO MINIMIZE EFFECT ON THE EXISTING BUILDING OPERATION. USE EQUIPMENT AND PROCEDURES TO MINIMIZE NOISE, DUST, VIBRATIONS AND HOT WORK HAZARDS.
- DO NOT ALTER MATERIAL PROPERTIES OF THE STRUCTURAL STEEL WHICH IS TO REMAIN BY CUTTING AND DEMOLITION PROCEDURE.
- MAKE GOOD ALL EXISTING WORK DISTURBED BY CONSTRUCTION OPERATIONS AND PROCEDURES.

STRUCTURAL STEEL

- CONFORM TO CSA S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES".
- FABRICATOR TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2, AND/OR CSA W55.3.
- WELDERS TO BE CWB CERTIFIED. WELDING TO BE IN ACCORDANCE WITH CSA W59.
- MATERIALS (TO CSA G40.21 UNLESS NOTED OTHERWISE):
 - CHANNELS AND ANGLES: GRADE 350W
 - PLATES, BARS: GRADE 300W
 - SHOP PRIMER PAINT: CISC/CPMA 2-75
 - WELDING MATERIALS: CSA W48 AND CSA W59
- SHOP DRAWINGS FOR STRUCTURAL STEEL TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR DESIGN, RETAINED BY THE CONTRACTOR AND REGISTERED IN THE PLACE THE PROJECT IS LOCATED.
- DO NOT SPLICE SECTIONS WITHOUT PRIOR ACCEPTANCE BY THE DEPARTMENTAL REPRESENTATIVE AND SUBMISSION OF PERTINENT SHOP DRAWINGS. EACH SPLICE TO BE GIVEN A NON-DESTRUCTIVE TEST BY AN INDEPENDENT INSPECTION COMPANY ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE. TESTING TO BE AT THE CONTRACTOR'S EXPENSE. EVALUATED RESULTS WILL BE IN ACCORDANCE WITH CSA W59 AND REPORTED TO DEPARTMENTAL REPRESENTATIVE.
- DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
- PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.
- UNLESS OTHERWISE NOTED, CLEAN STEEL TO SSPC SP1 (SOLVENT CLEANING) AND APPLY ONE COAT OF SHOP PAINT.
- DISTRIBUTE HANGER LOADS FROM MECHANICAL AND HEAVY ELECTRICAL SERVICES UNIFORMLY ALONG STEEL MEMBERS. ALTERNATE HANGER POSITION ON EITHER SIDE OF MEMBERS. DO NOT INSTALL IN A MANNER THAT WILL CAUSE TWISTING OF STEEL MEMBERS OR EXCESSIVE BENDING OF FLANGES OR CHORDS. WHERE HANGERS ARE CONNECTED TO JOISTS AND THE APPLIED LOAD IS GREATER THAN 1.5kN, LOCATE SUSPENSION POINT NOT MORE THAN 100 (4") FROM JOIST PANEL POINT.

revisions	description	date
1	REISSUED FOR TENDER	17/10/04
0	ISSUED FOR TENDER	17/09/13

Client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
SASKATOON SASKATCHEWAN

project title
SASKATOON, SK REGIONAL PSYCHIATRIC CENTRE ROOFTOP AIR HANDLING UNITS REPLACMENT

approved by
M.D.B.
designed by
S.E.G.
drawn by
J.W.C.
PWGSC Project Manager
PWGSC Architectural and Engineering Resources Manager

Client
CORRECTIONAL SERVICE CANADA

drawing title
STRUCTURAL STRUCTURAL GENERAL NOTES

project no.	sheet	revision no.
R.079699.001	S1.0	1

