CONSTRUCTION NOTES: DIVISION 1 - GENERAL REQUIREMENTS DIVISION 5 - STEEL DIVISION 2 - DEMOLITION & SITE WORK DIVISION 3 - CONCRETE 1 GENERAL REQUIREMENTS 3.1 GENERAL WORK TO BE DONE IN ACCORDANCE WITH CSA S350-M1980. (R2003) CODE COMPLETE ALL STEEL WORK IN ACCORDANCE WITH CAN/CSA S16-09 "STEEL STRUCTURES FOR DESIGN LOADS: REFER TO STRUCTURAL DRAWINGS PROVIDE CONCRETE AND PERFORM WORK IN ACCORDANCE WITH CAN/CSA A23.1-09 OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES. THE GENERAL CONTRACTOR SHALL ARRANGE, OBTAIN AND PAY FOR ALL TEST CONCRETE IN ACCORDANCE WITH CAN/CSA A23.2-09 BUILDINGS". PROVIDE TEMPORARY BARRIERS/SIGNS TO PROTECT THE PUBLIC DURING REQUIRED PERMITS ALL STRUCTURAL STEEL AS SPECIFIED HEREIN SHALL BE OF NEW MATERIAL CONFORMING TO CSA INSPECTION AND TESTING THE COURSE OF THE WORK. POST CAUTION SIGNS AS REQUIRED TO GENERAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO COMMENCING .1 INSPECTION AND TESTING WILL BE PERFORMED BY A FIRM APPROVED BY THE CONSULTANT AND PAID G40.21-13. IDENTIFY POTENTIAL HAZARDS OR DANGERS TO WORKERS AND THE WORK AND THOROUGHLY INSPECT EXISTING CONDITIONS TO WIDE FLANGE BEAMS AND COLUMNS - 350W FOR THE BY CONTRACTOR .2 CHANNELS & ANGLES - 300W FAMILIARIZE HIMSELF WITH THE AREAS OF WORK. ALL REQUIRED .2 PROVIDE FREE ACCESS TO ALL PORTIONS OF WORK AND CO-OPERATE WITH APPOINTED FIRM. HOLLOW STRUCTURAL SECTIONS AND ROLLED SHAPES - 350W REMOVE ALL DEMOLITION DEBRIS FROM THE SITE ON A DAILY BASIS; KEEP BARRICADES AND SIGNAGE ARE AT THE CONTRACTORS EXPENSE. .3 SUBMIT PROPOSED MIX DESIGN FOR EACH CLASS OF CONCRETE TO CONSULTANT FOR APPROVAL .4 STRUCTURAL PLATES & BARS - 300W WORK AREA, ADJOINING SPACES AND CORRIDOR AREAS MAINTAINED THE PROVISIONS OF THE SASKATCHEWAN BUILDERS LIEN ACT APPLY TO TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. AT ALL TIMES. DISPOSE OF MATERIAL IN ACCORDANCE WITH LOCAL .4 TESTS OF CEMENT AND AGGREGATES MUST BE PERFORMED TO ENSURE CONFORMANCE WITH THIS PROJECT. THEREFOR ALL PAYMENTS WITH RESPECT TO THIS .5 MISCELLANEOUS STEEL - 300W WORK ARE SUBJECT TO A STATUTORY HOLDBACK OF 10%. HOLDBACK AUTHORITY HAVING JURISDICTION. PROVIDE ERECTION BOLTS TO ASTM A325M, MINIMUM 19mm. DESIGN BOLTED CONNECTIONS TO ASTM REQUIREMENTS STATED HEREIN. WASTE MATERIALS SHALL NOT BE BURNED ON SITE. WILL BE RELEASED FORTY (40) DAYS AFTER SUBSTANTIAL COMPLETION A325 FOR THREADS EXCLUDED FROM SHEAR PLANE .5 ONE CONCRETE TEST, CONSISTING OF THREE TEST CYLINDERS, WILL BE TAKEN FOR EVERY 50 CUBIC PROTECT ADJACENT SURFACES THROUGH THE WORK, ESPECIALLY DURING 4. WELDING TO BE DONE TO CSA W59-13 BY FABRICATORS QUALIFIED TO CSA W47.1-09 HAS BEEN OBTAINED. THE GENERAL CONTRACTOR IS RESPONSIBLE TO 5. METERS OR LESS OF EACH CLASS OF CONCRETE PLACED. ONE CYLINDER TO BE TESTED AT 7 DAYS, ABRASIVE BLASTING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE 5. PAINT ALL STRUCTURAL STEEL IN ACCORDANCE WITH CISP/CPMA 1-73A. MAKE APPLICATION FOR SUBSTANTIAL COMPLETION. THE REMAINING TWO CYLINDERS TO BE TESTED AT 28 DAYS. ALL WORKMANSHIP AND MATERIALS SHALL BE OF COMMERCIAL QUALITY FOR, AND SHALL PAY FOR ANY DAMAGES TO ADJACENT SURFACES AS A .6 TWO ADDITIONAL CYLINDERS SHALL BE TAKEN FOR SULPHATE RESISTANT CONCRETE. THE STEEL EXPOSED TO THE ELEMENTS SHALL BE PAINTED WITH ZINC PRIMER RESULT OF THE WORK. AND EXECUTED BY SKILLED TRADES PEOPLE. TEMPORARY BRACING DURING CONSTRUCTION TO BE DESIGNED BY CONTRACTOR RESPONSIBLE FOR ADDITIONAL CYLINDERS SHALL BE AT 56 DAYS. CARRY OUT ALL DEMOLITION AND/OR EXCAVATION IN A SAFE AND REMOVE AND/OR REPLACE DEFECTIVE AND NON-CONFORMING WORK AT NO 6. ERECTION. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON JOB SITE. ONE ADDITIONAL TEST CYLINDER WILL BE TAKEN DURING COLD WEATHER CONCRETING, AND BE CONTROLLED MANNER. PREVENT SUDDEN MOVEMENT, SETTLEMENT OF COST TO OWNER. DEFICIENCIES NOTED ON FINAL INSPECTION SHALL NO BURNING OF HOLES SHALL BE ALLOWED IN STRUCTURAL STEEL. CURED ON JOBSITE UNDER SAME CONDITIONS OF CONCRETE IT REPRESENTS. STRUCTURE, OR DAMAGE OF ADJACENT STRUCTURES, SERVICES, BE CORRECTED PRIOR TO FINAL PAYMENT BY OWNER. 9. MINIMUM WELDS FOR CONNECTIONS SHALL BE 5mm FILLET WELD AND WHERE EXPOSED IN FINISHED .8 ONE SLUMP TEST AND ONE AIR CONTENT TEST WILL BE TAKEN FOR EACH SET OF TEST CYLINDERS SIDEWALKS, ROADS, TREES, LANDSCAPING, AND ADJACENT GRADES. TURN OVER TO OWNER ALL MAINTENANCE MANUALS, EXTRA MATERIALS BUILDING, WELD SHALL BE GROUND SMOOTH TAKEN. PROVIDE AND PLACE BRACING AS REQUIRED FOR SAFETY AND .9 TESTING OF CONCRETE WILL BE PERFORMED IN ACCORDANCE WITH CSA-A23.2-09 "METHOD OF TEST AND WARRANTIES UPON COMPLETION OF PROJECT. 10. FABRICATORS TO BE CERTIFIED AS A DIVISION 2 COMPANY UNDER W47.1-09 SUPPORT OF STRUCTURE DURING DEMOLITION AND/OR EXCAVATION. AS BUILT DRAWINGS: TRANSFER ALL INFORMATION REGARDING 11. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY FOR CONCRETE" TEMPORARY SHORING SHALL BE REVIEWED BY A PROFESSIONAL .10 TEST RESULTS WILL BE ISSUED TO THE CONTRACTOR, CONSULTANT AND OWNER. TEST REPORTS TO CHANGES AND DEVIATIONS FROM THE ORIGINAL CONTRACT THE STEEL FABRICATOR. FACTORED LOADS FOR THESE CONNECTIONS ARE SHOWN ON THE ENGINEER PRIOR TO BEING LOADED. DRAWINGS AND ARE DENOTED THUS "40 kN". TENSION CONNECTIONS ARE DENOTED 'T', DOCUMENTS ONTO ONE SET OF PRINTS. AS-BUILT DRAWINGS ARE TO BE NUMBERED CONSECUTIVELY BEGINNING WITH NUMBER ONE. CONTRACTOR TO CEASE OPERATIONS IMMEDIATELY IF, AT ANY TIME, COMPRESSION CONNECTIONS ARE DENOTED 'C'. OTHERWISE LOADS ARE SHEAR LOADS. LOADS IN BE MAINTAINED AND UPDATED THROUGHOUT THE PROJECT: SUBMIT .11 IF CONCRETE CYLINDERS TEST RESULTS ARE NOT IN ACCORDANCE WITH THE SPECIFICATIONS, DURING THE COURSE OF WORK THE STRUCTURE APPEARS TO AS-BUILTS TO CONSULTANT PRIOR TO APPLICATION FOR FINAL REQUIRED RETESTING WILL BE PAID FOR BY THE CONTRACTOR. ' kN E.E.' INDICATE EACH END. U.N.O., ALL CONNECTIONS SHALL BE SIMPLE CONNECTIONS. FOR ENDANGER THE SAFETY OF THE WORKERS, PUBLIC OR SURROUNDING CONNECTIONS NOT DESCRIBED ABOVE, NOR DETAILED ON THE STRUCTURAL DRAWINGS (i.e. CROSS PAYMENT. FAILURE TO SUBMIT AS-BUILT DRAWINGS WILL BE .12 THE CONSULTANT MAY ORDER ADDITIONAL TESTING ANY TIME EVEN THOUGH THE REQUIRED TESTS PROPERTIES. INDICATE THE STRENGTH REQUIREMENTS HAVE BEEN MET. IN THIS INSTANCE, THE OWNER WILL PAY BRACING, SMALL FRAMING MEMBERS) USE ANY TYPE OF SIMPLE CONNECTION AND DESIGN FOR THE CONSIDERED A DEFICIENCY ITEM VALUED AT \$5,000.00. CONTACT NECESSARY UTILITIES/ OWNER AND REVIEW ALL AVAILABLE FACTORED LOAD SHOWN. U.N.O., CONNECTIONS ARE TO BE WELDED OR BOLTED WITH ALL CONSTRUCTION TO CONFORM TO THE NATIONAL BUILDING CODE OF FOR THOSE TESTS THAT MEET THE SPECIFIED REQUIREMENTS AND THE CONTRACTOR WILL PAY FOR INFORMATION TO LOCATE BURIED UTILITIES AND SERVICES PRIOR TO HIGH-STRENGTH BOLTS IN BEARING TYPE CONNECTION (MINIMUM 2 - 19mm Ø BOLTS). CANADA, LOCAL CODES AND BYLAWS (LATEST EDITIONS) UNLESS UNDERTAKING ANY DEMOLITION ACTIVITIES. 12. PREPARE SHOP DRAWINGS UNDER DIRECTION OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE .13 NON-DESTRUCTIVE METHODS FOR TESTING CONCRETE SHALL BE ACCORDING TO CSA A23.2-09. STRINGENTLY SPECIFIED OTHERWISE. STRUCTURAL ENGINEERING IN THE PROVINCE OF SASKATCHEWAN. SUBMIT SHOP DRAWINGS FOR 10. CONFIRM ALL DIMENSIONS PRIOR TO COMMENCING WORK AND ADVICE **REVIEW AND APPROVAL.** CONSULTANT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS. 2.2 SITE WORK PERFORM ALL REMEDIAL WORK AND CUTTING AS REQUIRED: AVOID 3.2 CAST-IN-PLACE CONCRETE DO NOT COMMENCE WITH BACKFILLING OPERATIONS UNTIL ALL DEMOLITION DAMAGE TO OTHER WORK OR EXISTING SURFACES ETC., PATCH OR CONCRETE REQUIREMENTS: AND REMOVAL WORK HAS BEEN COMPLETED AND THE AREA HAS BEEN REPLACE AS DIRECTED. INSPECTED AND APPROVED FOR BACKFILLING BY THE CONSULTANT. 12. CLEAN WORK AREA AT COMPLETION OF WORK TO REMOVE DUST, DIRT. PROOF ROLL EXPOSED SUB-GRADE WITH A HEAVY SHEEPSFOOT ROLLER STAINS AND MARKS RESULTING FROM WORK COMPLETED WITHIN THIS DESIGN STRENGTH **EXPOSURE** CEMENT AIR MAXIMUM AFTER EXCAVATION. ANY SOFT AREAS OR SOIL CONTAINING ORGANIC LOCATION CONTRACT. (%) (MPa) CLASS (28 DAYS) CLASS TYPE SLUMP MATERIAL SHALL BE EXCAVATED AND REPLACED WITH WELL GRADED 13. GARBAGE BINS SHALL BE STORED IN THE WORK AREA. GENERAL PIT RUN SAND (TYPE '8'). COMPACT SAND TO MINIMUM 95% STANDARD CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING WASTE PILES & PILE CAPS 32 S-2 50 5-7 4" ± 1" PROCTOR DENSITY AT ±2% OF PROCTOR OPTIMUM MOISTURE MATERIAL FROM THE SITE. CONTENT. 14. CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF TEMPORARY PLACE TYPE '33' GRANULAR BASE FILL OVER THE AREA OUTLINED IN THE POWER AND WATER DURING CONSTRUCTION. PLANS IN MAXIMUM 6" LIFTS. COMPACT TO 100% STANDARD PROCTOR REINFORCING STEEL 5. CO-ORDINATE ALL WORK WITH BUILDING DESIGN MECHANICAL AND AT ±2% PROCTOR OPTIMUM MOISTURE CONTENT. COMPACT AND REINFORCING STEEL: NEW DEFORMED BARS TO CAN/CSA G30.18 ELECTRICAL DRAWINGS. GRADE TO ELEVATIONS SHOWN ON THE DRAWINGS. PROVIDE CLEAR CONCRETE OVER REBAR AS FOLLOWS: 16. CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF TEMPORARY PROTECT UTILITY SERVICES PREVIOUSLY UNCOVERED BY THE EXCAVATION .1. SURFACE POURED AGAINST GROUND - 3" SANITARY FACILITIES DURING CONSTRUCTION. WORK DURING BACKFILLING AND COMPACTION OPERATIONS. .2. FORMED SURFACE EXPOSED TO GROUND OR WEATHER - 1 1/2" . NOTIFY STRUCTURAL ENGINEER 24 HOURS IN ADVANCE FOR INSPECTION OF SITE COMPACTION TESTING .3. FORMED SURFACE NOT EXPOSED TO GROUND OR WEATHER: THE FOLLOWING: .1 TESTING OF COMPACTED FILL MATERIALS WILL BE PERFORMED BY AN 2.3.1. BEAMS - 1 1/2" PILING: BEFORE CONSTRUCTION INDEPENDENT INSPECTION FIRM APPROVED BY THE CONSULTANT AND 2.3.2. SLABS - 1" BOTTOM, 1" TOP BEFORE EACH CONCRETE POUR REINFORCING STEEL: PAID FOR BY THE CONTRACTOR. TESTING WILL BE PERFORMED SO AS 3. PLACE REBAR TO CAN/CSA A23.2 MASONRY & REINF STEEL: BEFORE EACH GROUT POUR TO LEAST ENCUMBER THE PERFORMANCE OF WORK AS DIRECTED BY 4. SPLICE REBAR AS FOLLOWS (U.N.O.) STRUCTURAL STEEL: BEFORE INSTALLATION OF DECKING THE CONSULTANTS. TIMBER TRUSSES: BEFORE SHEATHING BAR SIZE 15M 20M 25M .2 WHEN WORK OF THIS SECTION OR PORTIONS OF WORK ARE 18. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. PROVIDE TEMPORARY COMPLETED TO OWN SATISFACTORY, NOTIFY THE TESTING FIRM TO 1000 LAP SPLICE (mm) 480 650 BRACING AND SHORING AS REQUIRED FOR CONSTRUCTION LOADING PERFORM DENSITY TESTS. DO NOT PROCEED WITH ADDITIONAL CONDITIONS. INCREASE LAP 25% FOR BAR SPACING LESS THAN 150mm. PORTIONS OF WORK UNTIL RESULTS HAVE BEEN VERIFIED AND 19. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL APPROVED. 5. MINIMUM REINFORCING AROUND OPENING LARGER THAN 300mm: 1-20M BAR EACH SIDE OF OPENING DIMENSIONS ON SHOP DRAWINGS AND ALL FIELD DIMENSIONS. .3 IF, DURING PROGRESS OF WORK, TESTS INDICATE THAT COMPACTED EXTENDED 600mm PAST CORNERS. CONTRACTOR SHALL MARK ALL SHOP DRAWINGS AS REVIEWED FOR MATERIALS DO NOT MEET SPECIFIED REQUIREMENTS, REMOVE 6. PROVIDE SHOP DRAWINGS OF ALL REINFORCING STEEL TO THE CONSULTANT FOR REVIEW AT LEAST TWO DIMENSIONALITY PRIOR TO SUBMITTAL TO CONSULTANT. THE DEFECTIVE WORK, REPLACE AND RETEST AT OWN EXPENSE, AS WEEKS PRIOR TO POUR. CONSULTANT SHALL IMMEDIATELY REJECT ALL SHOP DRAWINGS NOT DIRECTED BY THE CONSULTANT. BEARING THIS CONFIRMATION. .4 ENSURE COMPACTED FILLS ARE TESTED AND APPROVED BEFORE 3.6 CONCRETE FORM WORK CONSTRUCT FORMS TO PRODUCE FINISHED CONCRETE CONFORMING TO THE SHAPE, DIMENSIONS, PROCEEDING WITH PLACEMENT OF SURFACE MATERIALS. .5 ALL TESTING TO BE DONE IN ACCORDANCE WITH ASTM STANDARDS. LOCATIONS AND LEVELS SHOWN ON THE DRAWINGS WITHIN THE TOLERANCE REQUIRED BY CAN/CSA .6 PROVIDE AT LEAST THREE DENSITY TESTS FOR EACH LIFT FOR EACH 100 SQUARE METER SURFACE AREA OF COMPACTED SUB-GRADE AND COMPACTED GRANULAR BASE BELOW ALL GRADE SUPPORTED CONCRETE SLABS AND WALKS. .7 PROVIDE AT LEAST THREE DENSITY TESTS FOR EACH 50 CUBIC METERS OF ALL OTHER FILL. .8 PROVIDE AT LEAST ONE TEST OF EACH FILL MATERIAL FOR COMPLIANCE WITH SPECIFICATION. .9 SUBMIT RECENT TEST RESULTS AVAILABLE FOR FILL MATERIALS TO BE USED. SUBMIT EACH TEST RESULT TO THE TESTING FIRM FOR APPROVAL. SUCH TEST RESULTS ARE TO CLEARLY INDICATE TYPES OF MATERIALS AND COMPOSITION, HARDNESS, COMPACTIBILITY AND SUITABILITY FOR PROPOSED USAGE. 2.2 PILE FOUNDATION NOTES 1. A SITE SPECIFIC GEOTECHNICAL REPORT FOR THIS PROJECT HAS NOT BEEN PREPARED. ASSUMED DESIGN VALUES ARE AS FOLLOWS: SKIN FRICTION (kPa) DEPTH (m) BELOW GRADE NEGLECT 0 - 2.4m 2.4m - 9.0m 24 kPa 1.1. PILE REINFORCING SHALL BE FULL LENGTH, UNLESS NOTED OTHERWISE 1.2. CONCRETE PILES SHALL BE POURED WITHIN 24 HOURS OF DRILLING. 1.3. UNLESS NOTED OTHERWISE, CENTER PILES UNDER COLUMNS OR GRADE BEAMS.

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