STRUCTURAL NOTES: NOTES: REFER TO TENDER DOCUMENTS FOR QUANTITY, LOCATIONS AND TYPE OF BEAMS TO B GENERAL NOTES INCLUDED IN CONTRACT. 1. CITY OF WINNIPEG STANDARDS AND SPECIFICATIONS APPLY TO ALL WORK. 2. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED GRANITE MARKER LOCATION AND DO NOT SCALE DRAWINGS. BEAM SUPPORT LOCATION SITE MEASUREMENTS IN ACCORDANCE WITH THE LIVE LOAD = 20 PSF SPECIFICATION PROCEDURES. GROUND SNOW LOAD = 40 PSF 3. THESE DRAWINGS SHOW THE COMPLETED DETAILS. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, FABRICATION, TRANSPORT, ERECTION AND REMOVA OF TEMPORARY SUPPORTS AND FACILITIES AND THE EXECUTION OF CONSTRUCTION REINFORCING STEEL METHODS REQUIRED IN THEIR USE. 4. THE BEAMS SHOWN ON THIS DRAWING INCLUDE THE GRANITE MARKERS FOR REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CAN/CSA G30.18-M92. GRADE TO BE; 400 MPa - GALVANIZED INFORMATION PURPOSES ONLY. ALL REPLACEMENT BEAMS TO BE FABRICATED AND REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE. DELIVERED TO SITE WITHOUT MARKERS INSTALLED. CORING FOR MARKER MOUNTING 3. TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE MINIMUM 1½" OF CONCRETE COVER. DOWELS INTO THE BEAMS WILL BE PERFORMED ON-SITE BY CITY OF WINNIPEG CONCRETE 1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1 (LATEST EDITION). SEE BELOW FOR MIX REQUIREMENTS. MIX WATER TO BE POTABLE. CALCIUM CHLORIDE SHALL NOT BE USED ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED. DESIGN, FABRICATE AND ERECT FORMWORK IN ACCORDANCE WITH CAN/CSA-S269.3-M92. ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL. THE PRECAST BEAM SUPPLIER SHALL SUPPLY ALL ANCHORS, BRACKETS, HANGERS, BEARING PADS AND LIFTING HOOKS NECESSARY FOR INSTALLATION OF THE BEAMS THE PRECAST BEAM SUPPLIER SHALL SUBMIT SHOP DRAWINGS BEARING THE SEAL OF AN ENGINEER, REGISTERED IN THE PROVINCE OF MANITOBA, FOR REVIEW BY CONTRACT ADMINISTRATOR. CONCRETE MIX DESIGNS EXPOSURE CLASS 28 DAY COMP. STRENGTH 35 MPa CEMENT GU W/C RATIO 0.40 AGGREGATE SIZE (MAX.) 3/4" ENTRAINED AIR 5%-8% SLUMP (MAX.) 3 1/2" (±1/2") BEAM LENGTH: 4'-0" NO. OF MARKERS: 1 TYPICAL GRANITE MARKERS SEE DETAIL 1/S2 BEAM LENGTH: 8'-0" NO. OF MARKERS: 2 BEAM TYPE 3 ISSUED FOR CONSTRUCTION BEAM LENGTH: 12'-0" NO. OF MARKERS: 3 REVISION/DESCRIPTION SEAL BEAM TYPE 4 BEAM LENGTH: 16'-0" NO. OF MARKERS: 4 DATE 2018.04.30 BEAM TYPE 5 APPROVAL BEAM LENGTH: 20'-0" PROFILE"A" NO. OF MARKERS: 5 THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4 PROJECT **BROOKSIDE CEMETERY** FIELD OF HONOUR RESTORATION BEAM LENGTH: 24'-0" NO. OF MARKERS: 6 3001 NOTRE DAME AVENUE SHEET TITLE PRECAST BEAMS ISOMETRIC VIEWS OF REINFORCED PRECAST CONCRETE BEAM LENGTHS S1 | S1 | SCALE: 1 1/2"=1'-0" SCALE PROJECT No: 2016-049 AS SHOWN

DESIGNED

2018

DATE

BY

APPROVED

SHEET No: