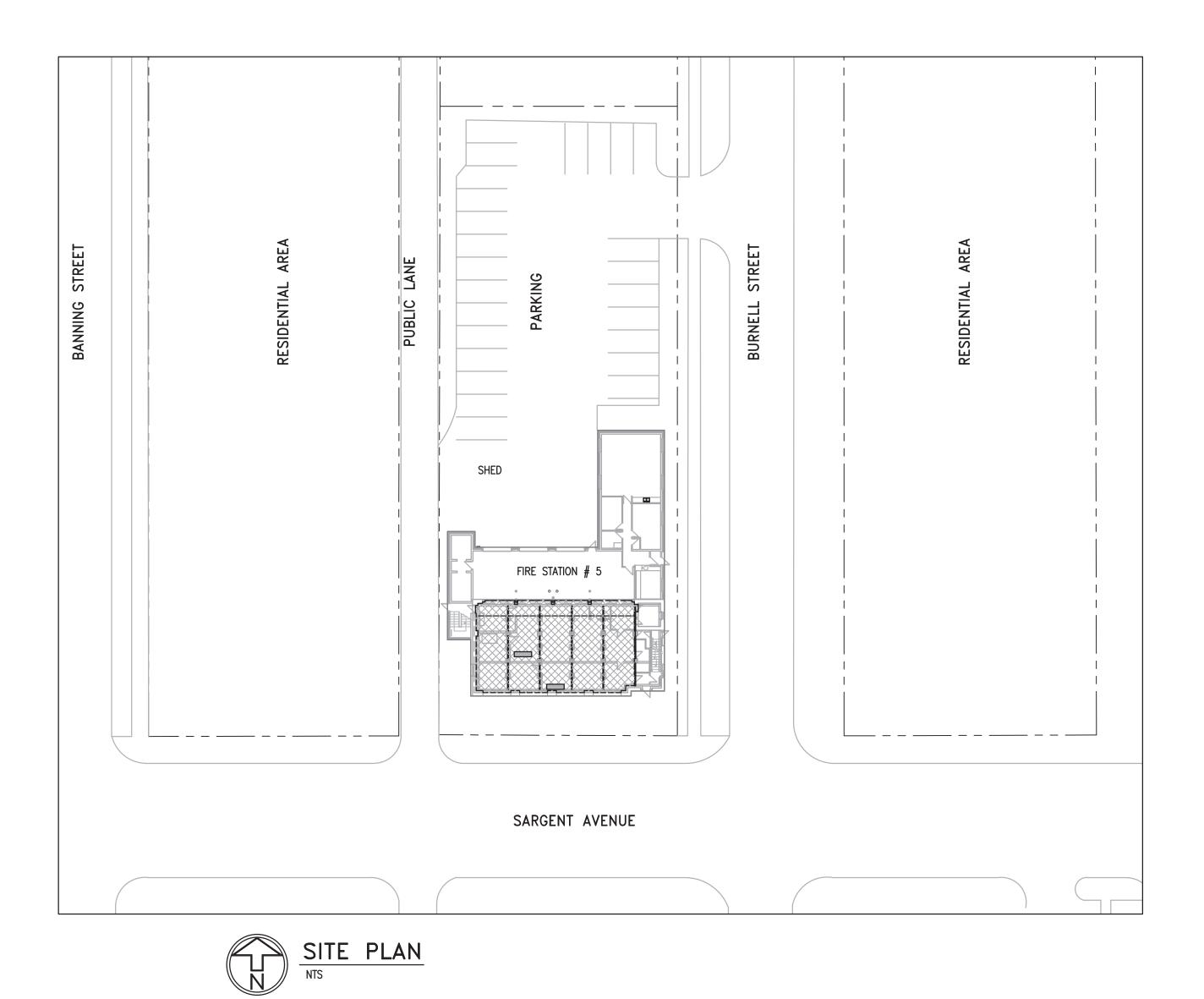
FIRE PARAMEDIC SERVICE STATION No. 5 845 SARGENT AVENUE, WINNIPEG, MANITOBA STRUCTURAL REPAIRS TO APPARATUS ROOM FLOORS BID OPPORTUNITY # 1118-2017

CONTRACT ADMINISTRATOR

300-275 Carlton Street Winnipeg, Manitoba R3C 5R6 T 204. 943. 7501 F 204. 943. 7507



Crosier Kilgour & Partners Ltd. CONSULTING STRUCTURAL ENGINEERS



DRAWING LISTS

- TITLE PAGE, DRAWING LISTS, SITE PLAN AND GENERAL NOTES S0.1 S2.1 EXISTING BASEMENT REFLECTED CEILING PLAN
- S2.2 EXISTING MAIN FLOOR PLAN (DEMOLITION)
- S2.3 EXISTING MAIN FLOOR PLAN (NEW CONSTRUCTION)
- S4.1 SECTIONS AND DETAILS S5.1 TYPICAL CONCRETE REPAIR SECTIONS AND DETAILS
- S6.1 TYPICAL WATERPROOFING MEMBRANE SECTIONS AND DETAILS

GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS ARE TO BE VERIFIED WITH 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 CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION

DESIGN ASSUMPTIONS

- 1. EXISTING MATERIALS PROPERTIES (HISTORICAL VALUES)
- A) CONCRETE: f'c = 1.45 ksi (10 MPa) 3) REINFORCING STEEL: fy = 33 ksi (225 MPa)
- C) STRUCTURAL STEEL: fy = 40 ksi (275 MPa)
- 2. DESIGN LOADS:
- A) DEAD LOAD = 163 psf B) LIVE LOAD = 250 psf OR MAXIMUM POINT LOAD = 23700 #'S
- SHORING AND BRACING
- INSTALL SHORING AND BRACING REQUIRED TO COMPLETE REPAIRS AS SHOWN ON DRAWINGS. 2. FOR UNIT PRICE CONCRETE REPAIRS, THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF SHORING REQUIREMENTS PRIOR TO COMMENCEMENT OF DEMOLITION AND THROUGHOUT THE REPAIR PROCESS.

CAST-IN-PLACE CONCRETE

- I CONCRETE
- 1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CSA-A23.1-14 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.2-14 "METHOD OF TEST FOR CONCRETE".
- 2. 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.
- 3. 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.
- 4. CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

CONCRETE CURBS:

35 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: C-1 ENTRAINED AIR/CATEGORY: 1 (5% TO 8%) AGGREGATE MAX. 20 mm CURING TYPE: 7 DAY WET CURE

BONDED CONCRETE OVERLAY 35 MPa MIN. AT 28 DAYS AND TOP SURFACE CONCRETE CLASS OF EXPOSURE: N REPAIRS

ENTRAINED AIR/CATEGORY: 1 (5% TO 8%) AGGREGATE MAX. 14 mm MACRO SYNTHETIC: 2.27 KG/M³ CURING TYPE: 7 DAY WET CURE

UNLESS INDICATED OTHERWISE THE CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

The General Contractor shall check & verify all dimensions and report any errors or omissions to the designers.					
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CONTRACT AD					
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Project FIRE PA STATIO STRUCTUF 845 SARG WINNIPEG	N NO	D. 5 PAIRS TO /ENUE		CE US ROOM FL	.00RS
GEN		ET, DRAWI NOTES AN	D SITE PL		
File Date 2017-1192 Design Drawn				2017-11-06	
Revision	DJM/PG Shee	et No.		RBC	
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