



**NOTES:**

- GENERAL CONCEPT FOR CONNECTIONS SHOWN. MANUFACTURER SHALL DESIGN AND PROVIDE ALL CONNECTIONS.
- PROFESSIONAL ENGINEER FROM PRECAST SUPPLIER TO DESIGN AND PROVIDE APPROPRIATE SIZES PER THEIR DESIGN. GIVEN VALUES ARE MINIMUM REQUIREMENTS.
- COORDINATE FINAL LOCATIONS AND DETAILS WITH CONTRACT ADMINISTRATOR.
- ALL PLATES, ANGLES, CONNECTIONS, ETC EXCEPT SST HARDWARE SHALL BE HOT-DIP GALVANIZED.
- PROVIDE CONCRETE TOPPING MINIMUM 50mm THICK OVER ENTIRE PRECAST FLAT ROOF. REINFORCE WITH WELDED WIRE REINFORCEMENT 102 x 102 x MW25.4 x MW25.4.
- COORDINATE HANGER SUPPORT CONNECTIONS WITH PRECAST MANUFACTURER. DESIGN DEAD LOAD ALLOWANCE FOR PIPES, DUCTS, TRAYS, ETC IS 5.0kPa. PROVIDE 22mm DIA HOLES AT 300 CENTRE TO CENTRE SPACING TO ALLOW FOR FUTURE CONNECTION OF HANGER RODS. VERTICAL CLEARANCE OF HOLES TO SUIT PRECAST MANUFACTURER'S REBAR LAYOUT, TYPICAL FOR ALL DOUBLE TEES.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR ADD. 4 - B.O. 899-2015	03/2016	C.R.	J.C.
00	ISSUED FOR TENDER - B.O. 899-2015	01/2016	C.R.	J.C.

<b>CH2MHILL</b>		<b>KCS GROUP</b>	
DESIGNED BY: J. THANNICKAL	CHECKED BY: E. LUI	ENGINEER'S SEAL	
DRAWN BY: C. RYNARD	APPROVED BY: H.T. FREIHAMMER		
SCALE: AS NOTED	ISSUED FOR CONSTRUCTION BY: T. TURZAK		
DATE: 2016/01/29	DATE: 2016/01/29	CONSULTANT NO.: 474248	

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
SEWPC UPGRADING/EXPANSION PROJECT  
STRUCTURAL  
BIOREACTORS/BLOWER BUILDING  
PRECAST DOUBLE TEE ROOF DETAILS

CITY DRAWING NUMBER: 1-0102-SDTL-R001 | SHEET: 01 | REV: 01 | SIZE: A1