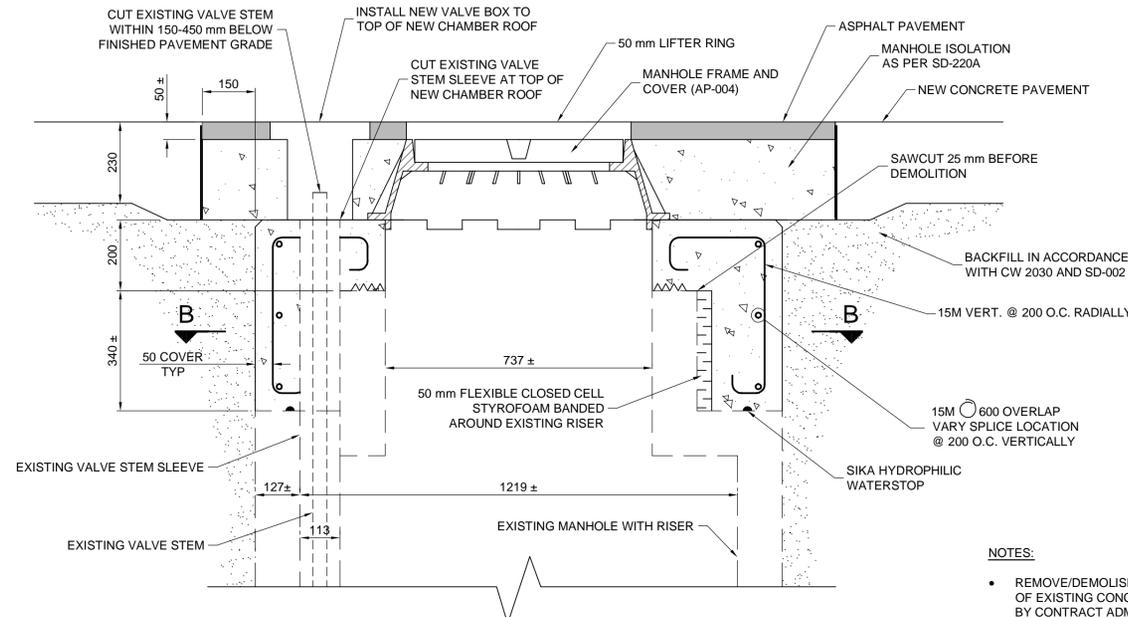


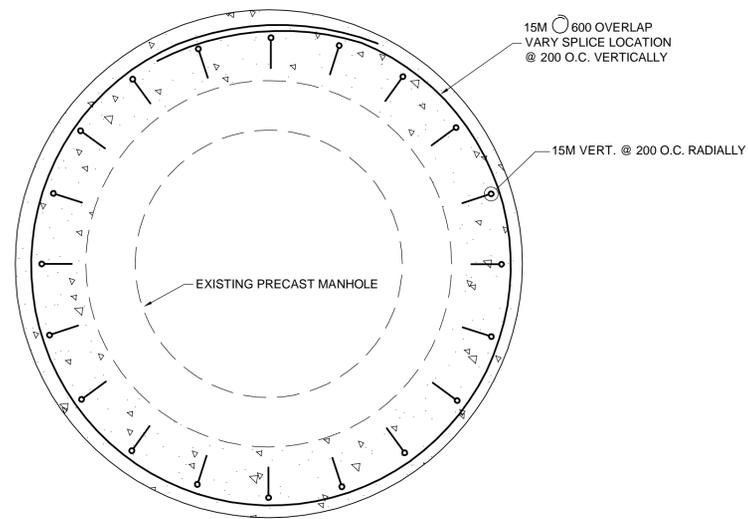
VERTICAL SECTION

- NOTES:
- REMOVE/DEMOLISH APPROXIMATELY 900 mm OF EXISTING CONCRETE RISER AS DIRECTED BY CONTRACT ADMINISTRATOR.
  - CHAMFER ALL EDGES 20 mm
  - UTILIZE STANDARD REBAR DETAILING FOR ALL HOOKS SHOWN

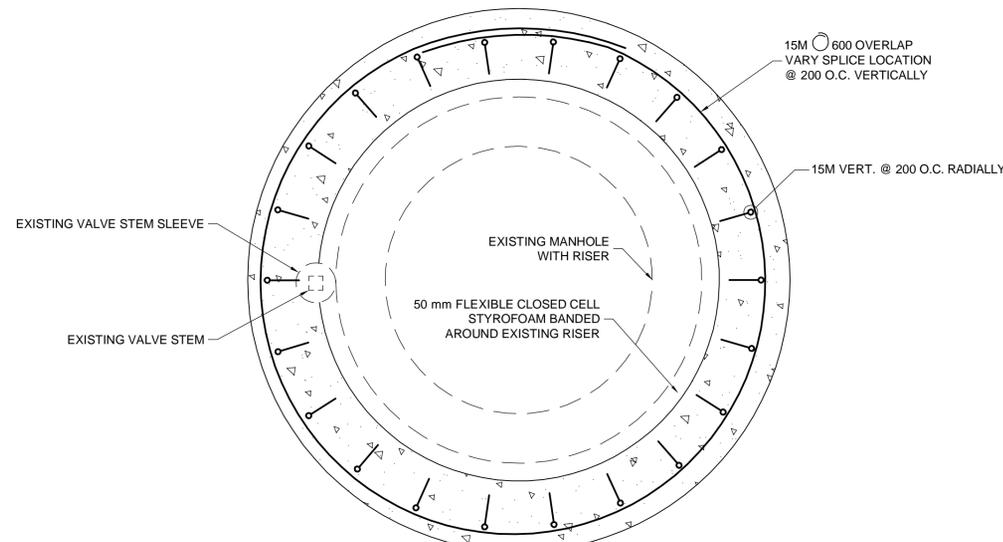


VERTICAL SECTION

- NOTES:
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HORIZONTAL SECTION 'A-A'



HORIZONTAL SECTION 'B-B'

1 NORTHWEST CORNER SEWER MANHOLE CHAMBER IMPROVEMENTS  
SCALE 1:10

2 NORTHEAST CORNER WATERMAIN MANHOLE CHAMBER IMPROVEMENTS  
SCALE 1:10



**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

ROUNDABOUT CONSTRUCTION  
GRASSIE BOULEVARD AND MOLSON  
STREET INTERSECTION

MANHOLE CHAMBER IMPROVEMENTS

CITY DRAWING NUMBER: P-3329-24  
SHEET 24 OF 24  
CONSULTANT DRAWING NUMBER

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	150 WM	WATERMAIN	150 WM	
300 LDS	HYDRANT	300 LDS	MTS	M.T.S.	300 LDS	HYDRANT	300 LDS	
250 WWS	VALVE	250 WWS		CONCRETE	250 WWS	VALVE	250 WWS	
	LAND DRAINAGE SEWER			ASPHALT		LAND DRAINAGE SEWER		
	WASTE WATER SEWER			PLANING		WASTE WATER SEWER		
	MANHOLE			SIDEWALK		PROFILE		
	CATCH BASIN			PAVING STONES		NORTH/WEST GUTTER		
	CURB INLET			PARTIAL DEPTH REPAIR		SOUTH/EAST GUTTER		
	JUNCTIONS			PROPERTY LINE		NORTH/WEST DITCH		
	CULVERT			SURVEY BAR		SOUTH/EAST DITCH		
	GAS			CURB RAMP				
	100 GAS							

UNDERGROUND STRUCTURES

DATE

NOTE:  
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

BENCHMARK: GEODETIC MARKER # 654321  
N: 5531099.483 E: 639291.865

DESIGNED BY	FAK
DRAWN BY	TJH
CHECKED BY	DBW
APPROVED BY	DPK
HOR. SCALE	
VERTICAL	

ENGINEER'S SEAL

PROVINCE OF MANITOBA  
ORIGINAL STAMPED BY  
F.A. KEMP  
06/08/2012  
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER  
11-4588

G:\CAD\11-4588\Contract\Current\24 MANHOLE DETAILS.dwg