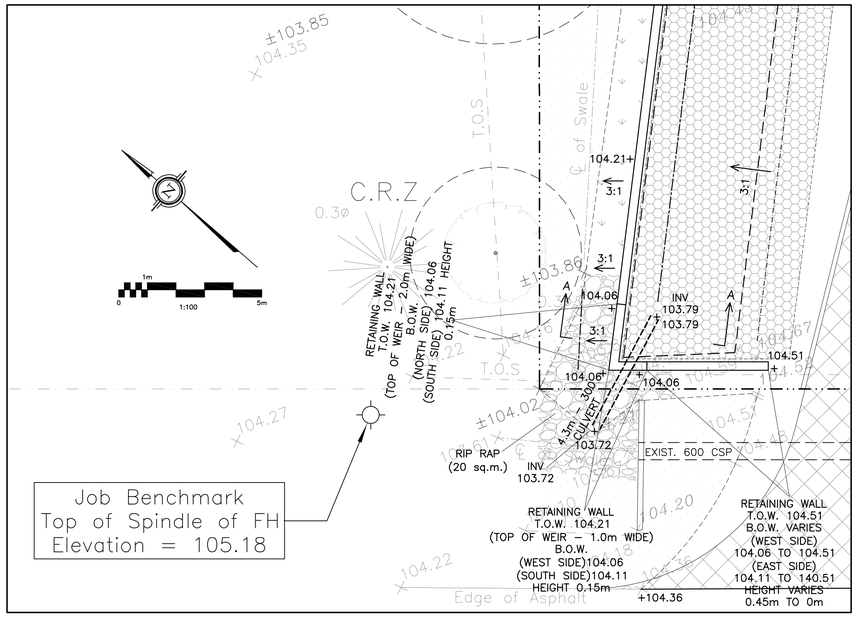
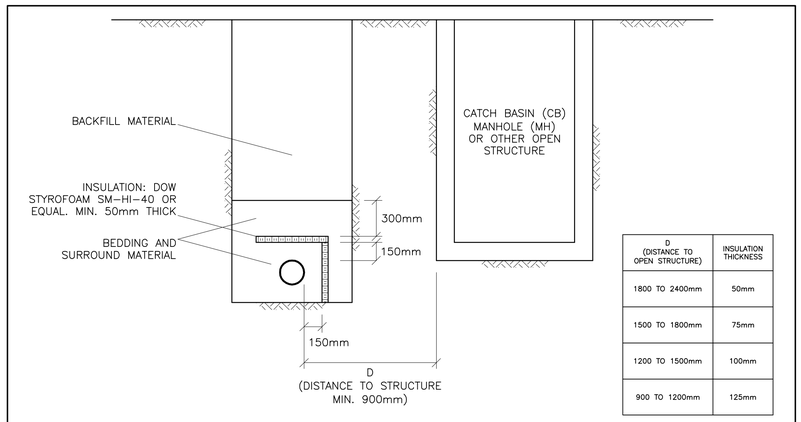


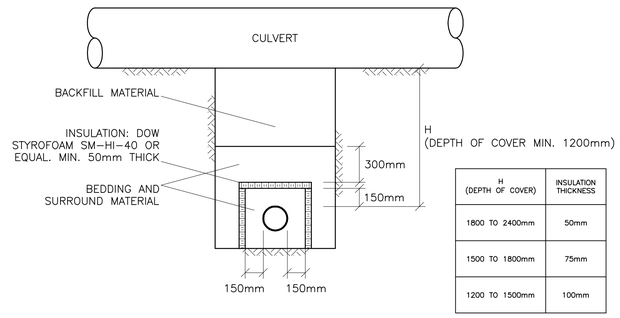
Job Benchmark
Top of Spindle of FH
Elevation = 105.18



D (DISTANCE TO OPEN STRUCTURE)	INSULATION THICKNESS
1800 TO 2400mm	50mm
1500 TO 1800mm	75mm
1200 TO 1500mm	100mm
900 TO 1200mm	125mm

INSULATE SEWER AS INDICATED.
CENTER INSULATION OVER PIPE.
JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED.

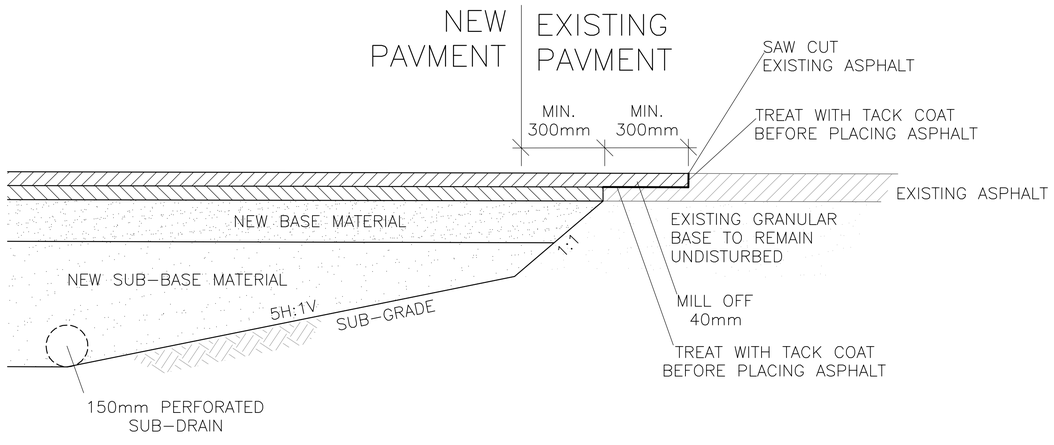
INSULATION OF WATERMAINS & WATER SERVICE CONNECTIONS AT OPEN STRUCTURES
AS PER CITY OF OTTAWA DRAWING No. W23
N.T.S



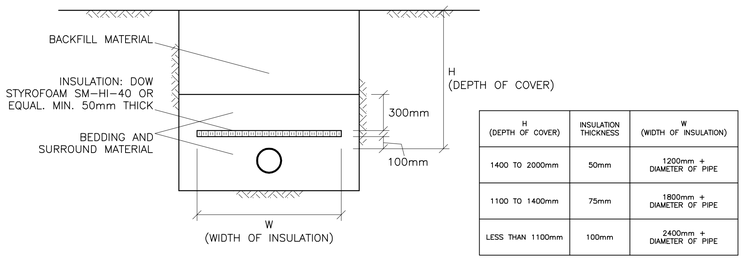
H (DEPTH OF COVER)	INSULATION THICKNESS
1800 TO 2400mm	50mm
1500 TO 1800mm	75mm
1200 TO 1500mm	100mm

INSULATE WATERMAIN AS INDICATED AND WHERE DEPTH OF COVER IS LESS THAN 2400mm. PROVIDE A MINIMUM 1200mm COVER
CENTER INSULATION OVER PIPE.
JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED.

INSULATION OF WATERMAINS & WATER SERVICE CONNECTIONS CROSSING CULVERTS
AS PER CITY OF OTTAWA DRAWING No. W23
N.T.S



PAVEMENT TRANSITIONS
N.T.S.



H (DEPTH OF COVER)	INSULATION THICKNESS	W (WIDTH OF INSULATION)
1400 TO 2000mm	50mm	1200mm + DIAMETER OF PIPE
1100 TO 1400mm	75mm	1800mm + DIAMETER OF PIPE
LESS THAN 1100mm	100mm	2400mm + DIAMETER OF PIPE

INSULATE SEWER AS INDICATED AND WHERE DEPTH
OF COVER IS LESS THAN 2000mm.
CENTER INSULATION OVER PIPE.
JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED.

INSULATION OF SEWERS IN SHALLOW TRENCHES
N.T.S

KEY PLAN

No.	DATE	REVISION
4	MAR 17–23	RE–ISSUED FOR APPROVAL
3	JAN 20–22	RE–ISSUED FOR APPROVAL
2	AUG 3–21	ISSUED FOR APPROVAL
1	JUL 13–21	ISSUED FOR COORDINATION

D. B. GRAY ENGINEERING INC.
Stormwater Management · Grading & Drainage · Storm & Sanitary Sewers · Watermains
700 Long Point Circle 613-425-8044
Ottawa, Ontario d.gray@dbgrayengineering.com

Project
PROPOSED
1–STOREY WAREHOUSE
155 IBER ROAD
OTTAWA, ONTARIO

Drawing Title
DETAILS

Engineer's Seal
LICENSED PROFESSIONAL ENGINEER
D.B. GRAY
17016502
MAR 17–23
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

Drawn	D.B.G
H. Scale	
V. Scale	
Date	MAY 10–21
Job No.	21024

Drawing No.
C–4
of 6

D07–12–21–0125

#18553