



- KEYNOTES:**
1. 160mm DIA. HDPE PIPE DR 32.5
  2. FLANGE TO FLANGE CONNECTION
  3. 300 DIA. HDPE DR 17 PIPE FLANGED TO MANHOLE
  4. 16mm HDPE STIFFENER (TYP. OF 4)
  5. 62mm HDPE STIFFENER (TYP. OF 8)
  6. 15mm HDPE FLOOR (SLAB FLOOR TO DUMP), WELD TO MANHOLE
  7. 62mm HDPE BASE, WELD TO MANHOLE
  8. 62mm HDPE LIFTING HOOP (TYP. OF 4)
  9. HUNT PUMP SUPPORT
  10. BUILT UP HDPE LAUNDER 400mm WIDE C/W RUNGGS @ 300 O.C. FIX TO HDPE MANHOLE
  11. 150 DIA. HDPE DR 17 PIPE WELD TO MANHOLE
  12. ACCESS VAULTED GATE ACCESS HATCH
  13. 300 DIA. RESILIENT SEAT GATE VALVE
  14. 47-76mm DIA. HDPE ACCESS PORT C/W 75mm BALL VALVE AND GATE. INSTALL AT 10° SKEW FROM C
  15. 90mm THICK BUILT UP
  16. 25mm MINUS GRANULAR BASE COURSE @ 87% S.P.D.
  17. 16mm HDPE x 400mm DIA. DUMP
  18. 62mm HDPE FLOOR AND SEEPAGE CUT OFF 300mm X 1000mm HIGH (TYP. OF 8)
  19. EXISTING SPINDLE



- NOTES:**
1. FOR ACCESS MANHOLE LID FRAMING PLANS 8mm THK. GALV. STEEL PLATE LID NOT SHOWN FOR CLARITY.
  2. ALL WELDS AND ABRASIONS TO BE REPAIRED WITH TWO COATES OF GALVCON.

- KEYNOTES:
1. 122mm DIA. HOPE DR 32.6 MANHOLE WALL
  2. 19mm DIA. GALV. M/T, CARB. & WASHER (R) RECD SEE ACCESS MANHOLE LID FRAMING PLAN FOR ARRANGEMENT
  3. 19mm DIA. GALV. M/T, CARB. & WASHER (R) RECD SEE ACCESS HATCH FRAMING PLAN FOR ARRANGEMENT
  4. 6mm THK GALV. STEEL PLATE ACCESS HATCH COVER
  5. 6mm THK GALV. STEEL PLATE MANHOLE LID
  6. 6mm THK, K 75mm DEEP GALV. STEEL BAND, WELD TO LID
  7. 75x15x5 GALV. ROLLED ANGLE CONTINUOUS ALL AROUND AND BOLTED TO HOPE MANHOLE
  8. 50x5x5 GALV. ANGLE SEE LID FRAMING DETAIL 4
  9. 50x5x5 GALV. ANGLE SEE ACCESS HATCH FRAMING DETAIL 3
  10. 125mm DIA. RUBBER GASKET IN ROUTED SLOT CONTINUOUS ALL AROUND WEATHER TIGHT
  11. 25mm wide a 6mm THK RUBBER GASKET, MASTIC TO UNDERSIDE OF HATCH COVER (TYP. 4 SIDES)
  12. ACCESS HATCH COVER HANG (TYP. OF OTHER) SEE DETAIL 8 & THIS DWG.
  13. ACCESS HATCH COVER H&P & LIFTING HANDLE SEE DETAIL 8 & THIS DWG.
  14. 160mm DIA. HOPE DR 32.6 MANHOLE WALL
  15. HOPE MANHOLE WALL
  16. HOPE LIFTING HOOK SEE FRAMING DETAIL FOR ARRANGEMENT
  17. 52mm HOPE LIFTING HOOK Q/W 25mm DIA. HOLE (4 RECD)



- NOTES:
1. ACCESS MANHOLE LID & HATCH ANGLE FRAMING ARE NOT SHOWN FOR CLARITY. FOR DETAIL REFER TO FRAMING PLAN AS PER DETAIL
  2. ALL WELDS AND ABRASIONS TO BE REPAIRED WITH TWO COATES OF GALVCON.

- KEYNOTES:**
1. 8mm THK. GALV. STEEL STAPLE
  2. 12.5mm DIA. DRILLED HOLE FOR PADLOCK
  3. 12.5mm DIA. GALV. STEEL BAR LIFTING HANDLE
  4. 50mmx15mm SLOT HOLE
  5. 6mm FILLET WELD ALL AROUND (TYP.)
  6. 25mm WIDE x 8mm THK. RUBBER GASKET MASTIC TO UNDERSIDE OF HATCH COVER (TYPICAL 4 SIDES)
  7. 6mm THK. GALV. STEEL PLATE ACCESS HATCH COVER
  8. 6mm THK. GALV. STEEL PLATE MANHOLE LID



- NOTES:
1. ACCESS MANHOLE LID & HATCH ANGLE FRAMING ARE NOT SHOWN FOR CLARITY, FOR DETAIL REFER TO FRAMING PLAN AS PER DETAIL.
  2. ALL WELDS AND ABRASIONS TO BE REPAIRED WITH TWO COATES OF GALVCON.

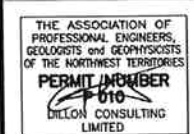
- KEYNOTES:**
1. 12mm THK. GALV. STEEL HINGE ARM C/W HOLE FOR 13mm DIA. PIN
  2. 12mm THK. GALV. STEEL HINGE ARM SUPPORT C/W HOLE FOR 13mm DIA. PIN (TYPICAL OF 2)
  3. 60mm x 60mm x 12mm THK. GALV. STEEL BASE PLATE
  4. GALV. STEEL WASHER (TYP.)
  5. 6mm FILLET WELD ALL AROUND
  6. 25mm WIDE x 6mm THK. RUBBER GASKET MASTIC TO GAVELD OF HATCH COVER (TYPICAL SIDES)
  7. 6mm THK. GALV. STEEL PLATE ACCESS HATCH COVER
  8. 6mm THK. GALV. STEEL PLATE MANHOLE LID
  9. 13mm DIA. GALV. STEEL PIN C/W 2 COTTER PIN



**DRAWING REDUCED  
NOT TO SCALE**

|         |          |                             |            |
|---------|----------|-----------------------------|------------|
| 5       | 07/10/07 | REVISED FOR MWB APPLICATION | GS         |
| 4       | 01/31/07 | REVISED FOR MWB COMMENTS    | GS         |
| 3       | 05/05/06 | ISSUED FOR TENDER           | GS         |
| 2       | 08/29/05 | ISSUED FOR 95% REVIEW       | GS         |
| 1       | 04/27/05 | ISSUED FOR 50% REVIEW       | GS         |
| CHANGE# | DATE     | DESCRIPTION                 | CHECKED BY |

|              |                |               |                   |
|--------------|----------------|---------------|-------------------|
| REVISIONS    |                |               |                   |
| DESIGN<br>GS | DRAWN<br>41TPW | CHECKED<br>GS | DATE<br>JULY 2007 |



PROJECT  
SEWAGE & SOLID WASTE  
FACILITY  
KUGAARUK, NUNAVUT

TITLE  
MANHOLE DETAILS



|                       |              |
|-----------------------|--------------|
| SCALE                 | AS SHOWN     |
| DILLON PROJECT NUMBER | 05-4755-3000 |
| CLIENT PROJECT NUMBER | NA           |
| DRAWING NUMBER        | 202          |