MANHOLE DOES NOT EXIST CAP 4" WATERMAIN AT EX. EX. 150¢ DRAIN TILE SAN MH3 RIM=TBA 4.40m/-100mm 1.53% INV=59.05 NW INV=59.07 S INSTALL 100mm D.I. WATERMAIN | INV=58.96\E WITH JOINT RESTRAINTS. ALL JOINTS | INV=58.98 \SW TO BE WRAPPED WITH PETROLATUM || INV=58.98 *|*5 TAPE. GROUT INTO FOUNDATION EXCAVATION WALL FOR STRUCTURAL 29\31-100mm PVC EXPOSE AND GROUT RWL INTO FOUNDATION SAN @ 1.53%. EXCAVATION WALL FOR STRUCTURAL SUPPORT. CONTRACTOR TO CHECK FOR CONFLICT GEOTECHNICAL AND STRUCTURAL ENGINEER BETWEEN SANITARY AND STORM PIPE. TO BE CONSULTED DURING SERVICE -INSTALLATION TO MAINTAIN STRUCTURAL EXPOSE SERVICE AND CONFIRM INVERT PRIOR TO STABILITY OF GENERATOR PAD. CONSTRUCTION OF PROP. SANITARY SERVICE. INSTALL 150mm TEE AND GROUT SERVICE INTO FOUNDATION EXCAVATION WALL FOR STRUCTURAL SUPPORT. SAN MH4 RIM = TBAINV=59.52 N INV=59.54 E EXPOSE SANITARY LINE AT BUILDING AND RE-INSTALL SERVICE AT 1.58%. CONTRACTOR TO CONFIRM INV. LELEVATION AT BUILDING PRIOR TO EX. BUILDINGS TO GONSTRUCTION. BE REMOVED AND DISPOSED OFFSITE RIM = 60.45INV=TBA S INV=TBA, W INV-TBATNW $=59.64m\pm$ 7.46m-150ø STM INSTALL STORM SUMP FOR FOUNDATION DRAINS DMH EX. A.C.U. PIPE LINE AND PROPOSED STORM LINE TO BE STRUCTURALLY SUPPORTED DURING BUILDING CONSTRUCTION. STORM MANHOLE 1 1/1/26 3 WITH 250 DIA. MAIN TO BE INSTALLED PRIOR TO BUILDING CONSTRUCTION. STORM MANHOLE TO BE INSTALLED AFTER BACKFILL IS 1 | EX. 2500 STM. -COMPLETE. PPE THE (RADIOACTIVE) RIM=MEET EX. EX DMH 20-HNV=MATCH EX. \ TIND MATCH EX. E TINY=58.77-INWAMATCH EX. N - HNV=58 FB Trgettex F INV=58.79-54 THIV - @ - PIPE - CROSSING = 58,67± CONTRACIONATO CONFIRM HAYERTS-ATECROSSING PRIOR TO CONSTRUCTION. RIM=69.17 INV=58.85± N INV=58.87± W $DMH_1'2$ RIM=160.12 INV=59.01± E INV=58.86± S INV=59.03± W IDMH 3/ INV=59.03 RIM=60,08 INV=59/41/4/NE)INV=59917±-E EX DMH 13 INV-59.194 S RIM = 60.32| INV=59.01 NE INV=59.09 \$ FIRE HYDRANT APP. 65m FROM PROPOSED BUILDING

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1	16/05/2011	UBC UTILITIES PRE-DEVELOPMENT PERMIT COMMENTS	NM					cta:
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GENERAL NOTES:

APPROVED EQUIVALENT.

ACTIVATION REQUEST FORM).

COVER DURING CONSTRUCTION.

DIVISION 2, SECTION 02660.

LANDSCAPE DRAWINGS.

A QUALIFIED GEOTECHNICAL ENGINEER.

GUIDELINES DIVISION 2, SECTION 02660.

BY OTHERS.

1. ALL OUTSIDE UTILITY LINE CONSTRUCTION TO CONFORM TO UBC TECHNICAL

3. THE DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS

4. WATERMAINS SHALL HAVE A MIN. COVER OF 1.0m.

5. FOR THRUST BLOCK DETAILS SEE M.M.C.D SECTION 02666.

2. ALL CONSTRUCTION SHALL CONFORM TO THE BRITISH COLUMBIA BUILDING AND PLUMBING CODE. UBC TECHNICAL GUIDELINES WILL PREVAIL IN CASE OF CONFLICTS BETWEEN THE TWO GUIDELINES.

DRAWINGS INCLUDING ARCHITECTURAL, MECHANICAL, ELECTRICAL AND LANDSCAPE

6. FOR ALL OTHER DETAILS WITHIN ONE METRE OF THE BUILDING SEE MECHANICAL

8. ALL CONNECTIONS TO BE 1.0m FROM BUILDING UNLESS OTHERWISE NOTED.

9. SEE MECHANICAL DRAWINGS FOR WATER CONNECTION VALVE DETAILS. THESE SERVICES TO BE CONSTRUCTED UNDER THE MECHANICAL CONTRACT.

STORM AND SANITARY SEWER UNDER THE ROAD SURFACE, WITH LESS THAN 1.0m COVER TO BE DWV CERTIFIED OR APPROVED EQUIVALENT.

10. CATCH BASINS TO BE AS PER DOBNEY No. 23 (GRATE) AND No. 24 (FRAME) OR

11. ALL WATERMAIN TO BE CLASS 50 DUCTILE IRON PIPE UNLESS NOTED OTHERWISE.

12. CONTRACTOR TO TEST, CHLORINATE AND FLUSH THE WATER SYSTEM UNDER THE

SUPERVISION OF THE UTILITIES MECHANICAL ENGINEER PRIOR TO TIE-INTO MUNICIPAL SYSTEM. 24 HOURS NOTICE IS REQUIRED (USE UTILITY SERVICE

13. ALL TOP ELEVATIONS OF MANHOLES, I.C.'s, CLEANOUTS AND BUILDING SUMP COVERS IN ROADWAY AND/OR PARKING STALLS TO BE FLUSH WITH FINISHED

16. ALL STORM SEWER PIPE TO BE PVC SDR28 (150mm OR SMALLER) OR SDR35.

18. ALL TRENCH EXCAVATION AND BACKFILL TO CONFORM TO MASTER MUNICIPAL

19. ALL LAWN BASINS TO BE 3000 TYPE I AS PER MMCD STD. DWG. S12 U.N.O.

SERVICES FROM CONSTRUCTION TRAFFIC WHERE SERVICES HAVE LESS THAN 0.9m

23. ALL STORM CONNECTIONS TO EXCLUDE BUILDING SUMPS. SUMPS TO BE INSTALLED

24. ALL WATERMAIN FITTINGS TO BE RESTRAINED AS PER UBC TECHNICAL GUIDELINES

25. ALL SERVICES ARE TO BE INSTALLED AND BEDDED ON COMPETENT SUBGRADE. ANY

26. ALL TRENCH BACKFILL TO BE NATIVE MATERIAL, COMPACTED TO 95% MPMDD.

27. ALL MANHOLES RIMS WITHIN LANDSCAPE AREAS ARE APPROXIMATE ONLY AND ARE

29. WATER VALVE INSTALLATION AND VALVE BOX SPEC TO FOLLOW UBC TECHNICAL

TO BE CONFIRMED UPON FINALIZATION AND COORDINATION OF CIVIL AND

28. WATERMAINS SHALL HAVE A MINIMUM DEPTH OF 1.0m METRE.

AREA REQUIRING STRUCTURAL FILL OR BULK EXCAVATION MUST BE BACKFILLED

AND COMPACTED WITH SUITABLE GRANULAR MATERIAL UNDER THE SUPERVISION OF

17. ALL SANITARY SEWER PIPE TO BE PVC SDR28 (150mm OR SMALLER) AND SDR35.

CONCRETE (REINFORCED C76 FOR PIPES GREATER THAN 600mm).

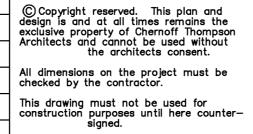
CONCRETE (REINFORCED C76 FOR PIPES GREATER THAN 600mm).

20. ALL LAWN BASIN LEADS TO BE 1500 PVC DR35 @ 1% MIN. U.N.O.

22. ALL CATCH BASIN LEADS TO BE 2000 PVC SDR35 @ 1.0% MIN. U.N.O.

14. ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC UNITS.

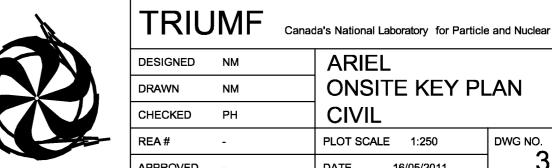
15. FOR THRUST BLOCK DETAILS SEE M.M.C.D. SECTION 02666.





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