GENERAL NOTES:

- ENGINEER SHALL MEAN A DESIGNATED REPRESENTATIVE OF STANTEC CONSULTING LIMITED. OWNER SHALL MEAN THE NOVA SCOTIA CONSTRUCTION SAFETY ASSOCIATION.
- 2. UNLESS INDICATED OTHERWISE, ALL CIVIL UTILITIES WORK SHALL BE IN ACCORDANCE WITH THE HALIFAX WATER DESIGN AND CONSTRUCTION SPECIFICATIONS WHITEBOOK (2016 EDITION) AND ALL SURFACE WORK SHALL BE IN ACCORDANCE WITH THE HRM REDBOOK (LATEST EDITION).
- PRIOR TO THE START OF ANY FIELD WORK, THE CONTRACTOR SHALL MAKE THE FOLLOWING SUBMITTALS TO THE ENGINEER FOR REVIEW:
- INSURANCE CERTIFICATES
- WCB CLEARANCE LETTER
- NSCSA LETTER OF GOOD STANDING
- HEALTH AND SAFETY PLAN - EROSION & SEDIMENT CONTROL PLAN
- TRAFFIC CONTROL PLAN
- 4. ALL DIMENSIONS INDICATED ARE IN METERS. PIPE SIZES INDICATED ARE IN MILLIMETERS, ALL ELEVATIONS ARE GEODETIC.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND SHALL COMPLY WITH THE PERMIT REQUIREMENTS AND CONDITIONS.
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION SIGNAGE IN ACCORDANCE WITH NSTIR REQUIREMENTS.
- THE CONTRACTOR SHALL ERECT TEMPORARY CONSTRUCTION SITE FENCING TO ENCLOSE THE CONSTRUCTION SITE AND PROTECT THE SITE FROM PUBLIC USE.
- 8. DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER.
- 9. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL TEMPORARY SERVICES SUCH AS POWER, LIGHTING, SANITARY SEWER AND WATER SUPPLY DURING CONSTRUCTION AS REQUIRED TO CONSTRUCT THE WORKS.
- 10. DRAWINGS HAVE BEEN COMPILED FROM TOPOGRAPHIC SURVEY INFORMATION AND RECORD DRAWINGS PROVIDED BY OTHERS. NOT ALL SERVICES MAY BE SHOWN. THOSE SHOWN MAY NOT BE ACCURATE. CONTRACTOR SHALL CONFIRM EXISTING SERVICES DURING CONSTRUCTION AND EXERCISE CAUTION DURING EXCAVATION PROCEDURES. CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITY FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGES MADE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
- 11. TOPOGRAPHIC SURVEY COMPLETED BY SDMM IN MAY 2006 AND BASED ON NSCM 24895 WITH ELEV. 57.497m.
- 12. CONTRACTOR SHALL CONFIRM ALL CRITICAL ELEVATIONS IN THE FIELD AT THE START OF CONSTRUCTION. REPORT DISCREPANCIES TO THE ENGINEER.
- 13. MAINTAIN MINIMUM DISTURBANCE IN ALL AREAS.
- 14. ALL EXCAVATED ASPHALT SHALL HAVE A SAWCUT EDGE.
- 15. ALL DEMOLITION WASTE SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS APPROVED BY THE ENGINEER.
- 16. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE CONSTRUCTION.
- 17. FINISHED GRADES SHALL BE AS INDICATED ON THE DRAWINGS. ONCE CONSTRUCTION IS COMPLETE, ALL SURFACES SHALL HAVE POSITIVE DRAINAGE WITHOUT PONDING.
- 18. MAINTAIN SITE IN TIDY CONDITION FREE FROM ACCUMULATION OF WASTE PRODUCTS AND DEBRIS. UPON OBTAINING SUBSTANTIAL PERFORMANCE OF THE WORK, REMOVE SURPLUS PRODUCTS, TOOLS, MACHINERY, AND EQUIPMENT FROM THE SITE. COMPLETION OF CLEANUP IS REQUIRED FOR TOTAL PERFORMANCE OF THE
- 19. WORK PRESENTED ON THE DRAWINGS REFLECTS PHASE II ONLY.

MATERIALS NOTES:

- REMOVE ALL UNSUITABLE MATERIALS FROM BENEATH NEW WORKS UNTIL SUITABLE GROUND IS OBSERVED AS APPROVED BY A GEOTECHNICAL ENGINEER.
- 2. ALL COMPACTION EQUIPMENT SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- PRIOR TO PLACEMENT OF NEW ROADWAY MATERIALS, THE SUB-GRADE SURFACE SHALL BE COMPACTED AND PROOF-ROLLED TO THE SATISFACTION OF A GEOTECHNICAL ENGINEER. INFORM THE ENGINEER PRIOR TO THIS WORK BEING PERFORMED. SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) TO ASTM D698 AND BE APPROVED BY A GEOTECHNICAL ENGINEER.
- 4. TYPE 1 AND TYPE 2 ROADWAY GRAVEL SHALL BE COMPACTED TO 100% SPMDD TO ASTM D698 AND BE APPROVED BY A GEOTECHNICAL ENGINEER.
- 5. ALL NEW ASPHALT SHALL BE COMPACTED TO HRM REQUIREMENTS.
- MATERIALS REFERRED TO ON THESE DRAWINGS SHALL BE AS FOLLOWS: - TYPE 1 GRAVEL - TO HRM SPECIFICATIONS.
- TYPE 2 GRAVEL TO HRM SPECIFICATIONS.
- TYPE B-HF ASPHALT TO HRM SPECIFICATIONS. - TYPE C-HF ASPHALT - TO HRM SPECIFICATIONS.

EROSION AND SEDIMENT CONTROL NOTES:

DIRECTLY TO A SEWER.

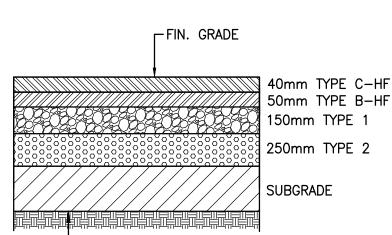
- 1. CONTRACTOR SHALL CARRY OUT ENVIRONMENTAL PROTECTION METHODS IN ACCORDANCE WITH THE PROVINCE OF NOVA SCOTIA EROSION AND SEDIMENT CONTROL MANUAL AND GUIDELINES FOR USE ON CONSTRUCTION
- 2. CONTRACTOR TO ENSURE COPIES OF ALL PERTINENT APPROVALS AND PERMITS ARE HELD ON-SITE. THIS SHALL INCLUDE THE CONTRACTOR'S OWN EROSION AND SEDIMENT CONTROL PLAN AND ANY SUBSEQUENT REVISIONS.
- THE CONTRACTOR SHALL INCORPORATE A ROUTINE END-OF-DAY CHECK TO ENSURE THE INTEGRITY OF PROTECTION MEASURES USED.
- MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES FROM THE TIME OF INSTALLATION UNTIL AFTER ALL AREAS DRAINING TOWARDS THEM HAVE BEEN STABILIZED. CONTRACTOR SHALL REMOVE CONTROL ONLY AFTER ALL SURFACES HAVE BEEN ESTABLISHED.
- 5. CONTRACTOR SHALL MONITOR METEOROLOGICAL CONDITIONS AND FORECAST AS A PROACTIVE MEANS TO MINIMIZE THE POTENTIAL FOR EROSION.
- INSPECT SEDIMENT AND EROSION CONTROL MEASURES ON A DAILY BASIS AND BEFORE AND AFTER HEAVY PRECIPITATION AND REPAIR AS NECESSARY.
- INSTALL PROTECTION METHODS AS REQUIRED BY THE SITE CONDITIONS TO PREVENT SEDIMENT FROM ENTERING
- MAINTAIN A STOCKPILE OF APPROPRIATE EROSION CONTROL AND ENVIRONMENTAL PROTECTION MATERIALS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL PERFORM WORK TO MINIMIZE DISTURBANCE TO SURROUNDING PROPERTIES AND MINIMIZE EXPOSED OPEN GROUND.
- 10. WHEN DE-WATERING OF THE CONSTRUCTION AREA IS REQUIRED, ONLY CLEAN WATER MAY BE DISCHARGED
- 11. DO NOT PUMP, DRAIN OR PERMIT WATER CONTAINING SUSPENDED MATERIALS TO ENTER SEWERS.
- 12. INSTALL SILT BAGS IN ALL EXISTING NEARBY CATCH BASINS DURING CONSTRUCTION.
- 13. CLEAN ROADS TO REMOVE ANY MUD AND SEDIMENT THAT MAY BE TRACKED OFF-SITE BY THE CONSTRUCTION
- 14. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AT THE SITE. DUST SHALL BE PREVENTED THROUGH APPLICATION OF WATER TO EXPOSED DRY GROUND TO PREVENT DUST FROM BEING GENERATED AND BLOWN FROM THE SITE TO ADJACENT PROPERTIES.

SEWER PIPE NOTES:

- GROUND WATER DEPTH IS UNKNOWN. SHOULD GROUND WATER BE ENCOUNTERED AT THE SITE, CONTRACTOR SHALL PROVIDE A MEANS OF KEEPING EXCAVATIONS DRY TO PERMIT THE INSTALLATION OF NEW WORKS.
- 2. CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES AND PROVIDE ADEQUATE SUPPORT DURING EXCAVATION AND BACKFILLING PROCEDURES.
- 3. PVC STORM SEWER MAIN PIPE SHALL BE DR35 PIPE CONFORMING TO CSA B182.1.
- 4. ALL CATCH BASIN LEADS SHALL BE DR35 PVC PIPE.
- ALL STORM SEWER LATERALS 150mm OR LESS SHALL BE DR28 PVC PIPE.
- 6. SEWER MAIN PIPE SHALL BE PLACED WITH A MINIMUM COVER OF 1.2m BELOW FINISHED GRADE UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE MINIMUM COVER IS NOT POSSIBLE, INSTALL (2) LAYERS OF 50mm THICK HI40 RIGID POLYSTYRENE INSULATION AROUND THE PIPE.
- 7. ALL MANHOLES AND CATCH BASIN STRUCTURES SHALL BE FOUNDED ON A MINIMUM OF 150mm TYPE 1 GRAVEL AND BE BACKFILLED WITH TYPE 2 GRAVEL EXTENDING A MINIMUM OF 300mm OUTWARD FROM THE MANHOLE WALL TO THE SUB-GRADE LEVEL. COMPACT ALL MATERIALS TO 98% SPDD.
- 8. ALL MANHOLES SHALL BE 1050\(\psi \) PRE-CAST CONCRETE MANHOLES CONSTRUCTED FROM PRE-CAST SECTIONS MEETING ASTM C478M WITH O-RING GASKETS. GRADE ADJUSTMENT SHALL BE A MINIMUM OF 300mm CAST-IN-PLACE 40 MPA CONCRETE OR CONSTRUCTED OF PRE-CAST CONCRETE GRADE RINGS.
- 9. ALL MANHOLE COVERS SHALL BE IMP R10 OR EQUIVALENT COVERS.
- 10. A-LOK GASKETS SHALL BE USED TO CONNECT PIPES TO NEW MANHOLES. FOR CONNECTION OF PIPES TO EXISTING MANHOLES, KOR-N-SEAL FITTINGS SHALL BE USED.
- 11. CATCH BASINS SHALL BE CONSTRUCTED OF ASTM C478M PRECAST CONCRETE WITH A 450mm SUMP. FRAME AND GRATING SHALL BE IMP S-441.
- 12. DO NOT PLACE GRAVEL BASE FOR MANHOLES OR PIPE WITHOUT PRIOR APPROVAL OF THE EXCAVATION
- 13. WHEN CONSTRUCTING MANHOLES AND PIPE, PROOF ROLL THE TRENCH BOTTOM. REMOVE AND REPLACE UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.
- 14. CONTRACTOR IS TO MAINTAIN A 450mm MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES, WITH SEWER BELOW THE WATER.
- 15. CROSSINGS OF WATER MAIN PIPE BY SEWER PIPE SHOULD OCCUR NEAR THE CENTER OF ANY LENGTH OF WATER PIPE, AND NOT ADJACENT TO THE JOINT.
- 16. PIPE BEDDING AND SURROUND MATERIAL OF PIPE SHALL BE COMPACTED TYPE 1 GRANULAR IN 150mm LIFTS.
- AND BE CARRIED OUT IN THE PRESENCE OF THE ENGINEER.

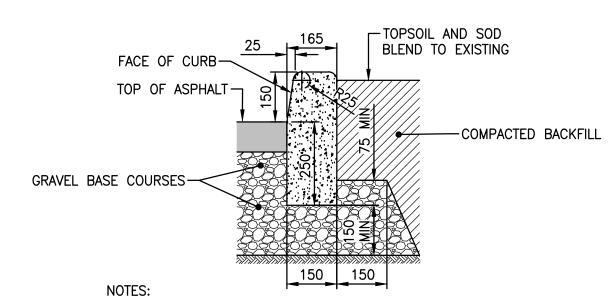
- 1. THE CONTRACTOR SHALL HAVE COMPLETE CONTROL OF THE WORK AND SHALL EFFECTIVELY DIRECT AND SUPERVISE THE WORK SO AS TO ENSURE CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY AT THE SITE AND FOR COMPLIANCE WITH THE RULES, REGULATIONS AND PRACTICES, REQUIRED BY THE APPLICABLE CONSTRUCTION SAFETY LEGISLATION. THE CONTRACTOR SHALL BE THE CONSTRUCTOR UNDER THE NOVA SCOTIA OCCUPATIONAL HEALTH AND SAFETY
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER AND OWNER IN CONNECTION WITH

- HWSD 1450 PRECAST MANHOLE
- 5. HWSD 1590 S441 CATCHBASIN FRAME AND GRATE



- WHERE APPLICABLE FILL UP TO SUBGRADE WITH COMMON OR IMPORTED FILL WHERE REQUIRED. SOFT AREAS EXPOSED FROM PROOF ROLLING SHALL BE SUB-EXCAVATED AND REPLACED WITH TYPE 2 GRAVEL.





1. TRANSITION TAPERS SHALL BE PROVIDED AT SIDEWALKS.

2. DIMENSIONS ARE IN mm.





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Legend

Notes

PHASE II - ISSUED FOR TENDER K.G J.A 18.09.25 100% DRAWINGS AM AN 16.08.26 By Appd. YY.MM.DD Revision By Appd. YY.MM.DD Issued AM RC AN 16.04.04 Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal

Client/Proiect

NOVA SCOTIA CONSTRUCTION SAFETY ASSOCIATION

REBUILD NSCSA PARKING LOT - PHASE II

DARTMOUTH, NOVA SCOTIA

CONSTRUCTION NOTES

AND DETAILS

Project No. Scale AS NOTED 121619398 Sheet Drawing No. Revision 1 of 5

ORIGINAL SHEET - ARCH D

BOTTOM.

17. TESTING OF SEWER SERVICES SHALL BE AT THE CONTRACTOR'S OWN EXPENSE TO HALIFAX WATER STANDARDS

SAFETY NOTES:

- PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK UNDER THE CONTRACT.
- ACT. NEITHER THE ENGINEER OR OWNER ARE CONSTRUCTORS UNDER THE ACT.
- ANY INFRACTIONS OR ALLEGED INFRACTIONS OF THE CONTRACTOR WITH RESPECT TO ANY ACTS, CODES, REGULATIONS, ETC.

LIST OF STANDARD DETAILS REFERRED TO ON THESE PLANS:

HALIFAX WATER DETAILS (2015 EDITION)

- HWSD 1440 TRENCH AND BACKFILL CROSS SECTION
- HWSD 1460 MANHOLE FRAME AND COVER HWSD 1570 - 1050mm PRECAST CATCHBASIN

