

LEGEND					
		PROPOSED		EXIS	TING
EDGE O	F PAVEMENT				
EDGE	OF GRAVEL				
	CURB				
SW	ALE / DITCH	→ · · → · · −		→ · · · → · · · —	
UTILITY P	OLE & LINES	——————————————————————————————————————		——————————————————————————————————————	
	LOTLINE				
	EASEMENT				
CATCH BASIN	■ ∞ ●	LIGHT STANDARD	*	CULVERT	
FIRE HYDRANT	*	ROAD SIGN	•	HEADWALL	0
SHRUB/TREE	*	UTILITY POLE	•	FENCE	—x—
SILT FENCE	- :	ROAD SIGN	ŀ	SIDEWALK	SPECIAL

DRAWINGS SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION.							
5	4	3	2	1	0	METRES 5	10
						SCALE 1:150	

NO.	DESCRIPTION	CHK'D	DATE
0	ISSUED FOR REVIEW		28/10/2022
1	ISSUED FOR COORDINATION		02/11/2022
2	SITE PLAN ISSUED FOR APPROVAL		17/11/2022
3	ISSUED FOR REGULATORY REVIEW		18/11/2022

SEAL

NOTES



153 Sackvi**ll**e Drive, Suite 1, Lower Sackvi**ll**e, NS, B4C 2R3 Phone: (902) 880-1354 www.hge-inc.ca



CLIENT NAME & ADDRESS



Saint John, New Brunswick

PROJECT NAME & ADDRESS

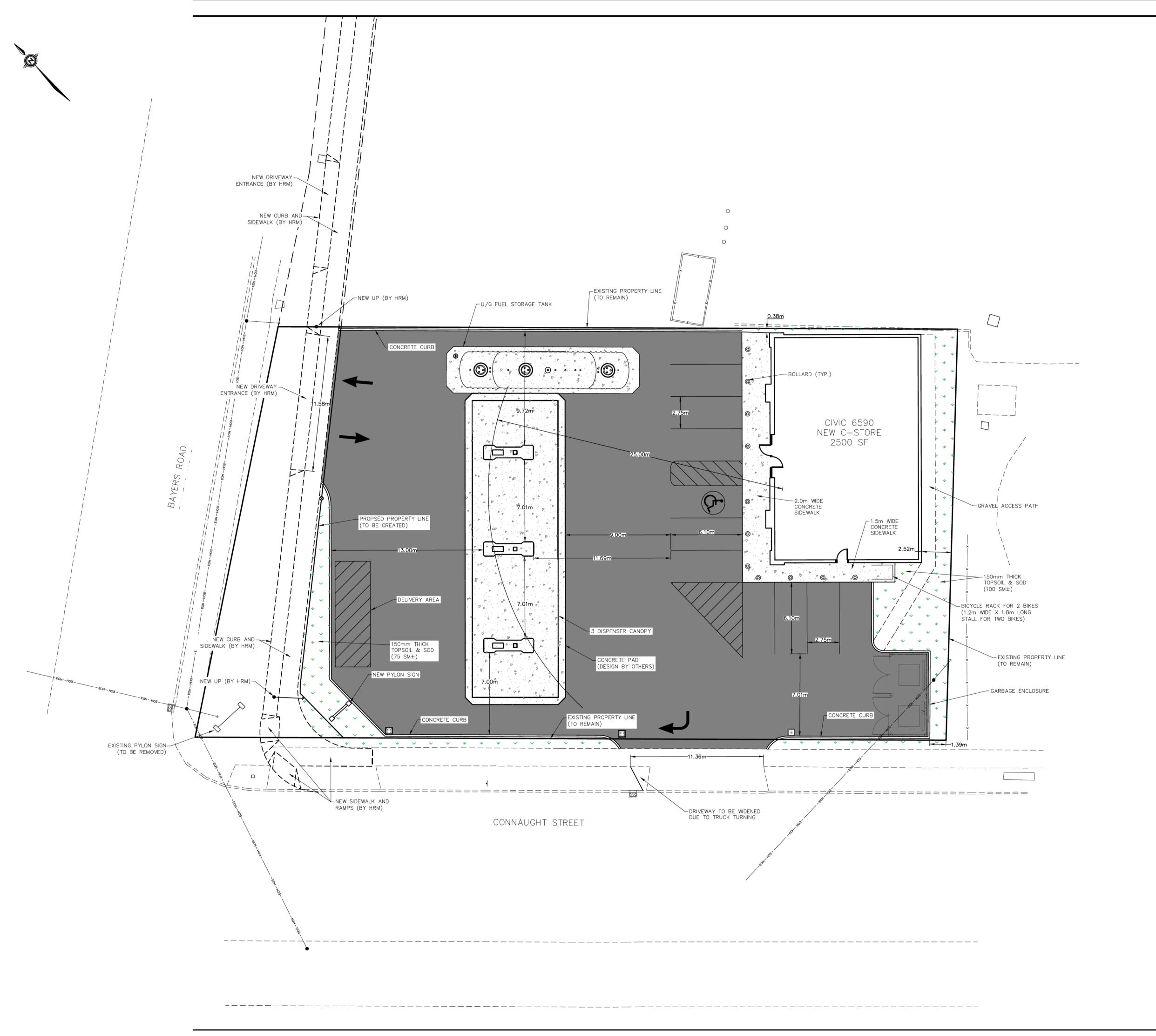
IRVING OIL GAS BAR

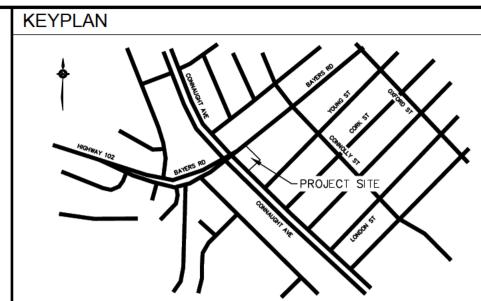
Bayers Road, Halifax, Nova Scotia

SHEET DESCRIPTION

EXISTING CONDITIONS PLAN

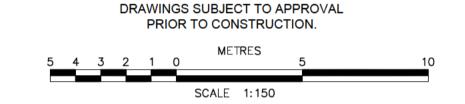
SHEET NO.	NUM	MBER OF SHEETS
C101		5
DRAWN BY: MLP		CHECKED BY: DTH
DATE: 18/11/2022	SCALE: 1:150	PROJECT NO. H22173





LEGEND						
			PROPOSED		EXISTING	
	EDGE O	F PAVEMENT				
	EDG	OF GRAVEL				
		CURB				====
SWALE / DITCH			$\longrightarrow \cdots \longrightarrow \cdots$	· —	<u></u> · · · −	<u> </u>
UTILITY POLE & LINES			——————————————————————————————————————	-	————НОЗ—————	
LOTLINE						
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CA	TCH BASIN	■ ∞ ●	LIGHT STANDARD	ఘ	CULVERT	
FIRE	HYDRANT	₩→←	ROAD SIGN	-	HEADWALL	0
SH	RUB/TREE	*	UTILITY POLE	•—	FENCE	x
S	ILT FENCE	_ · · -	ROAD SIGN	-	SIDEWALK	2000169 n

NOTES



3	ISSUED FOR REGULATORY REVIEW		18/11/2022
2	SITE PLAN ISSUED FOR APPROVAL		17/11/2022
1	ISSUED FOR COORDINATION		02/11/2022
0	ISSUED FOR REVIEW		28/10/2022
NO.	DESCRIPTION	CHK'D	DATE
SE	AL		



153 Sackville Drive, Suite 1, Lower Sackville, NS, B4C 2R3
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CLIENT NAME & ADDRESS



Saint John, New Brunswick

PROJECT NAME & ADDRESS

IRVING OIL GAS BAR

Bayers Road, Halifax, Nova Scotia

SHEET DESCRIPTION

SITE PLAN

SHEET NO.		NUMBE	R OF SHEETS	
C102			5	
DRAWN BY: MLP			CHECKED BY: I	OTH
DATE: 18/11/2022	SCALE:	1:150	PROJECT NO. H22	173

GENERAL

- 1. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH HALIFAX REGIONAL MUNICIPALITY (HRM) MUNICIPAL SERVICE SYSTEMS GUIDELINES, LATEST EDITION.
- 2. ALL WORKS TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND
- 3. ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROAD BUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA, CURRENT
- 4. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH HALIFAX WATER (HW) DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
- 5. ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF NOVA SCOTIA ENVIRONMENT (NSE).
- 6. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORKS. COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
- 7. CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO PROJECT
- 8. CONTRACTOR TO NOTIFY HALIFAX REGIONAL MUNICIPALITY AND HALIFAX WATER
- 9. CONTRACTOR TO VERIFY EXISTING SERVICE LOCATIONS SUCH AS NATURAL GAS SERVICE, ALIANT SERVICES, AND NSPI SERVICES. COORDINATION TO BE COMPLETED WITH THE APPROPRIATE UTILITIES PRIOR TO CONSTRUCTION.

REGARDING CONSTRUCTION SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.

- 10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH AND UNDERSTAND THE NATURE AND EXTENT OF THE WORK TO BE EXECUTED, THE NATURE OF THE SOIL, SURFACE WATER DRAINAGE, THE GENERAL FORM OF THE SURFACE OF THE GROUND, AND GENERALLY OF ALL MATTERS WHICH CAN IN ANY WAY INFLUENCE THE TENDER.
- 11. CONTRACTOR TO VERIFY LOCATIONS FOR SERVICE CONNECTIONS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER IMMEDIATELY.
- 12. CONTRACTOR TO VERIFY EXISTING GRADES, INCLUDING SURROUNDING GRADES, PRIOR TO LOT GRADING WORK. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY. MINIMUM SLOPE TO BE 0.7% FOR PARKING AREA. MAXIMUM SLOPE FOR LANDSCAPED AREAS 3H:1V.
- 13. CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY MEASURES DURING THE WORK.
- 15. CONTRACTOR TO REINSTATE ALL DISTURBED AREAS OUTSIDE OF THE LIMIT OF CONSTRUCTION TO PRE-CONSTRUCTION OR BETTER CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR REINSTATING ALL TREES, POLES, SIGNS, PIPEWORK, SIDEWALK, SOD ETC. FOLLOWING CONSTRUCTION
- 16. DRAWINGS SUBJECT TO APPROVAL BY HRM AND HW PRIOR TO CONSTRUCTION.
- 17. GEOTECHNICAL WORKS TO BE CERTIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 18. TESTING OF SITE SERVICES TO BE TO STANDARDS OF HRM AND HW.
- 19. LOT GRADING TO BE PERFORMED SUCH THAT RUNOFF IS DIRECTED INTO SWALES AND CATCHBASINS AND DISCHARGES AT CURB OR REAR LOT BOUNDARY.
- 20. PROVIDE FILL ON LOTS TO PREVENT PONDING AS DIRECTED BY ENGINEER.
- 21. INSTALLATION AND TESTING OF WATERMAIN AND SANITARY SERVICES ON PRIVATE PROPERTY TO BE PERFORMED IN ACCORDANCE WITH HW DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION. THIS INCLUDES, BUT IS NOT LIMITED TO, SANITARY MANHOLE TESTING, SANITARY AND WATERMAIN PRESSURE TESTING, WATERMAIN DISINFECTION, AND SANITARY AND STORM SEWER VIDEO.
- NEITHER THE WATER SYSTEM NOR THE SANITARY SYSTEM IS TO BE PLACED INTO SERVICE UNTIL ALL TESTING IS PERFORMED, PASSED AND APPROVED BY THE ENGINEER.
- 22. THE CONTRACTOR SHALL ADVISE THE ENGINEER AT LEAST TWO DAYS IN ADVANCE OF ANY SERVICE (SANITARY, STORM, OR WATER) INSTALLATION. NO PIPE WORK SHALL BE BURIED UNTIL APPROVAL IS GIVEN BY THE ENGINEER.
- 23. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF NATURAL WATERCOURSES FROM DAMAGE DUE TO SILTATION RUNOFF FROM THE CONSTRUCTION SITE. ACCEPTABLE CONSTRUCTION PROCEDURE MAY BE OBTAINED FROM "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES", CURRENT EDITION 57. BY NOVA SCOTIA ENVIRONMENT. THE CONTRACTOR SHALL MAKE NECESSARY REPAIRS TO SEDIMENTATION AND EROSION CONTROL DEVICES AS DIRECTED BY DEVELOPERS ON SITE REPRESENTATIVE.
- 24. CONTRACTOR TO INSPECT SEDIMENT AND EROSION CONTROL STRUCTURES AND MAKE NECESSARY REPAIRS BEFORE AND AFTER EVERY RAINFALL EVENT.
- 25. CONTRACTOR TO COORDINATE WITH TELEPHONE AND POWER UTILITY REGARDING EXISTING UNDERGROUND CONDUIT LOCATIONS AND REPORT ANY CONFLICTS TO
- 26. LOCATION AND INVERTS OF EXISTING SERVICES TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 27. WHERE LATERALS CONNECT TO MANHOLES, PROPER BENCHING TO BE CONSTRUCTED TO DIRECT FLOW INTO OUTLET PIPE.
- 28. INSULATION TO BE HI40 ROAD AND TRAFFIC RATED, 50mm RIGID STYROFOAM, WHERE REQUIRED.
- 29. 6.0m LONG PVC DR18 SLEEVE c/w LINK SEALS TO BE INSTALLED WHEN 450mm VERTICAL SEPARATION CANNOT BE ACHIEVED AT WATERMAIN CROSSINGS OR WHEN 62. WATER LATERAL TO BE TYPE "K" COPPER (38mmø) AND BE INSTALLED IN SEWER CROSSES ABOVE WATERMAIN. SLEEVE TO BE CENTERED ON CROSSING.
- 30. WHERE TRENCH ROCK IS ENCOUNTERED AT THE END OF A PIPE RUN, ROCK IS TO BE OVERBLASTED 10m, AT FULL TRENCH WIDTH, BEYOND END OF PIPE.
- 31. ALL MANHOLES LOCATED OFF STREET TRAVELLED WAY TO HAVE BOLT DOWN 32. CONTRACTOR TO CONTACT PROJECT ENGINEER AND HRM INSPECTOR FOR SITE
- REVIEW AT THE FOLLOWING STAGES: 32.a. GRUBBING COMPLETED
- 32.b. SUBGRADE COMPLETED 32.c. TYPE 2 GRAVEL COMPLETED
- 32.d. TYPE 1 GRAVEL COMPLETED APPROVAL FROM PROJECT ENGINEER AT EACH STAGE TO BE RECEIVED IN WRITING PRIOR TO START OF WORK ON NEXT STAGE.
- 33. DO NOT SUBSTITUTE MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE PROJECT ENGINEER.
- 34. ALL DISTURBED AREAS NOT STABILIZED BY GRAVEL TO BE HYDROSEEDED. CONTRACTOR TO RE-HYDROSEED AREAS WHICH DO NOT SHOW SIGNS OF ACTIVE GROWTH IN THE FIRST GROWING SEASON.
- 35. EXISTING SERVICES TO BE ABANDONED BACK AT MAIN LINE.

CONSTRUCTION NOTES

DRAWINGS.

- 36. CONTRACTOR IS RESPONSIBLE FOR TESTING AND VIDEO INSPECTIONS OF STORM
- SEWER TO HW STANDARDS. 37. ALL STORM PIPE 300mm DIAMETER OR SMALLER TO BE PVC DR35 TO CSA B182.2 AND ASTM D3034 OF THE DIAMETER NOTED ON THE DRAWINGS, COLOR CODED GREEN. ALL STORM PIPE 375mm DIAMETER OR LARGER TO BE CONCRETE

TO CSA A257.2 65D, DIAMETER AS NOTED, UNLESS OTHERWISE STATED ON THE

- 38. STORM LATERALS TO BE GREEN PVC DR35 125mmø (UNLESS OTHERWISE NOTED) AT MINIMUM 2.0% GRADE.
- 39. ALL JOINTS TO BE BELL AND SPIGOT TYPE WITH RUBBER GASKETS TO CSA A
- 40. ALL STORM MANHOLES TO BE PRECAST CONCRETE TO CSA A257.4 AND ASTM C478. MINIMUM DIAMETER OF 1050mm. AS PER HW MUNICIPAL SERVICE SYSTEMS STANDARD DETAIL HWSD 1450.
- 41. ALL STORM MANHOLES AND CATCHBASINS TO BE PRECAST WITH A-LOC GASKETS FOR ALL PIPE CONNECTIONS.
- 42. ALL MANHOLE FRAMES AND COVERS TO BE IMP ADJUSTABLE WITH TWO 25mm HOLES, MARKED "STORM SEWER".
- 43. ALL CATCHBASIN LEADS TO BE PVC DR35 200mmø (UNLESS OTHERWISE NOTED) TO CSA B182.2 AND ASTM D3034, COLOR CODED WHITE. WHERE LEADS ARE TO BE CONNECTED TO MAIN LINE, TEE OR KOR-N-TEE APPLICATIONS TO BE USED.
- 44. ALL CATCHBASINS TO BE 1050mmø PRECAST CONCRETE TO CSA A257.4. WITH FRAME AND GRATES TO BE IMP S401 OR S361, AS INDICATED ON PLANS. INLET CONTROL DEVICES (ICDs) TO BE INSTALLED IN OUTLET PIPES AS INDICATED OR AS DIRECTED BY ENGINEER. INLET CONTROLS TO BE CONSTRUCTED OF PVC PLUG C/W DRILLED HOLE OF INDICATED SIZE. HOLE TO BE LOCATED OFF-CENTRE TO MATCH INVERT OUT ELEVATION.

- 45. CONTRACTOR IS RESPONSIBLE FOR TESTING AND VIDEO INSPECTIONS OF SANITARY SEWER TO HW STANDARDS.
- 46. CONTRACTOR IS RESPONSIBLE FOR TESTING OF SANITARY LATERALS TO HW STANDARDS.
- 47. SANITARY MAIN TO BE PVC DR35 200mmø TO 375mmø (UNLESS OTHERWISE NOTED) AT MINIMUM 1.0% GRADE.
- 48. SANITARY LATERALS TO BE WHITE PVC DR28 125mmø (UNLESS OTHERWISE NOTED) AT MINIMUM 2.0% GRADE.
- 49. ALL JOINTS TO BE BELL AND SPIGOT TYPE WITH RUBBER GASKETS TO CSA A
- SANITARY MANHOLES TO BE PRECAST CONCRETE, 1050mmø UNLESS OTHERWISE NOTED, WATERPROOFED WITH XYPEX OR APPROVED EQUIVALENT, FROM FRAME TO BOTTOM OF MANHOLE. COVERS TO BE IMP R10 WITH ONE 20mm HOLE AND NO SIDE NOTCHES. COVER TO BE MARKED "SANITARY SEWER" COVER TO HAVE NEOPRENE GASKET BETWEEN COVER AND FRAME. AIR TESTING TO TAKE PLACE THROUGH 20mm HOLE WITH COVER ON

- 51. CONTRACTOR IS RESPONSIBLE FOR THE TESTING AND DISINFECTION OF WATERMAINS AND LATERALS TO HW STANDARDS AND SPECIFICATIONS.
- 52. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE EXISTING WATER VALVES OR MAKE CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR
- 53. ALL WATER PIPE TO BE DUCTILE IRON CLASS 52, MORTAR LINED, ASPHALTIC SEAL COATED, POLY WRAPPED, DIAMETER NOTED ON THE DRAWINGS.
- ALL DUCTILE IRON PIPE AND FITTINGS ARE TO BE POLY WRAPPED WITH ZINC ANODES (ZN 24-48) CONNECTED TO ALL COPPER SERVICES, GATE VALVES AND
- 55. ALL FITTINGS TO BE OF THE DIAMETER NOTED ON THE DRAWINGS DUCTILE IRON CLASS 52 TO AWWA C153.
- THRUST BLOCKS TO BE PROVIDED AT ALL TEES, BENDS, CAPS, AND HYDRANT BOWLS. 'MEGALUG' MECHANICAL JOINT THRUST RESTRAINTS OR APPROVED EQUIVALENT AS PER HW STANDARDS REQUIRED IN ADDITION TO CONCRETE THRUST BLOCKS TO BE USED ON ALL BENDS.
- PROVIDE A MINIMUM OF 1.0m OF HORIZONTAL SEPARATION BETWEEN ALL
- 58. THRUST BLOCKS SHALL BE CAST-IN-PLACE CONCRETE WITH A COMPRESSIVE STRENGTH OF 32 MPc AT 28 DAYS.
- 59. PROVISIONS FOR FLUSHING THE LINES PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50mmø OUTLET ON 100mmø AND LARGER PIPES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, SAME SIZE AS THE LINES. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ON TO A PARKING LOT, SODDED AREA OR DITCH. FLUSHING OUTLET TO BE 100mmø OR, A HYDRANT.
- ALL VALVES TO CLOSE IN THE CLOCKWISE DIRECTION AS INDICATED ON HW STANDARD DRAWING #1060. GATE VALVES TO BE USED FOR VALVES 300mmø AND SMALLER, 350mmø AND LARGER TO BE BUTTERFLY VALVES.
- 61. ALL WATERMAIN VALVES NOT INSTALLED IN A ROADWAY OR PAVED SURFACE TO HAVE ASPHALT APRON AS PER HW STANDARD DRAWING NO. 3635. VALVES INSTALLED IN ROADS ONLY CONSTRUCTED TO SUBGRADE TO ALSO HAVE
- ACCORDANCE WITH HW DETAIL HWSD-1180.

TYPICAL PAVEMENT SECTIONS

LIGHT DUTY ASPHALT PAVEMENT

75mm - ASPHALTIC CONCRETE, SURFACE COURSE, NSTIR TYPE C 150mm - BASE GRAVEL, NSTIR TYPE 1

150mm - SUBBASE GRAVEL, NSTIR TYPE 2

SUBGRADE COMPACTED AS PER GEOTECHNICAL REQUIREMENTS

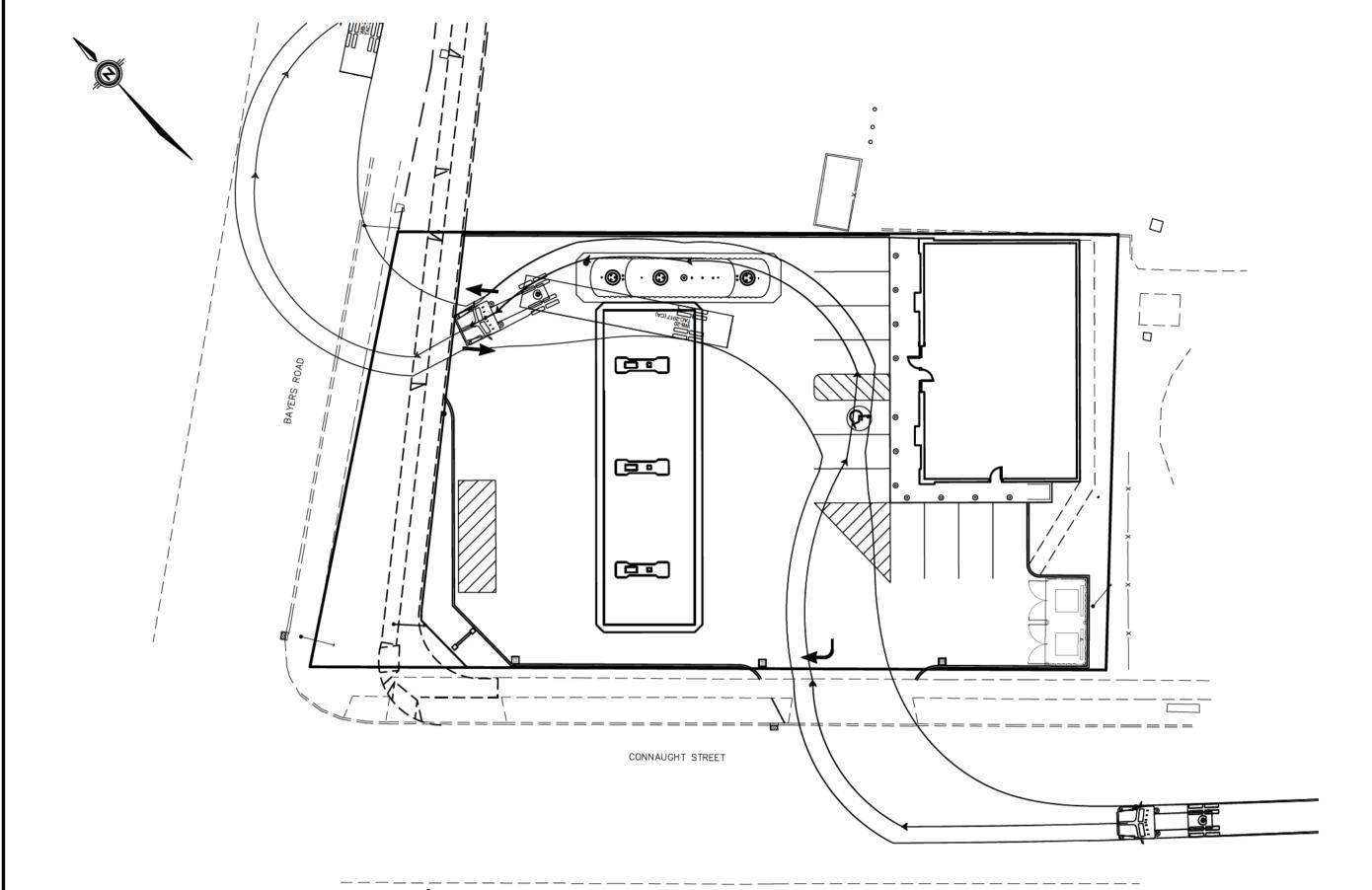
HEAVY DUTY ASPHALT PAVEMENT

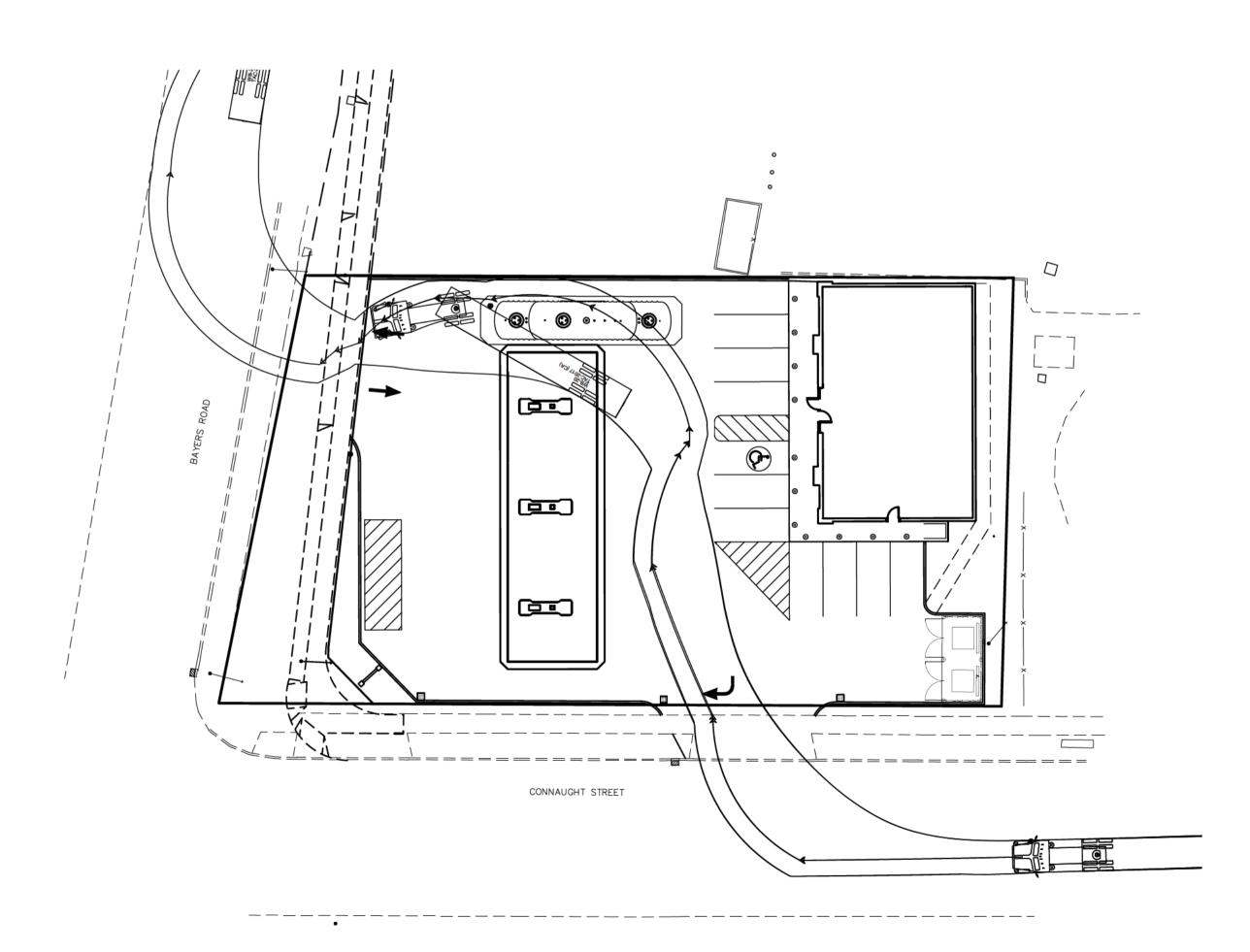
40mm - ASPHALTIC CONCRETE, SURFACE COURSE, NSTIR TYPE C 60mm - ASPHALTIC CONCRETE, BASE COURSE, NSTIR TYPE B 150mm - BASE GRAVEL, NSTIR TYPE 1

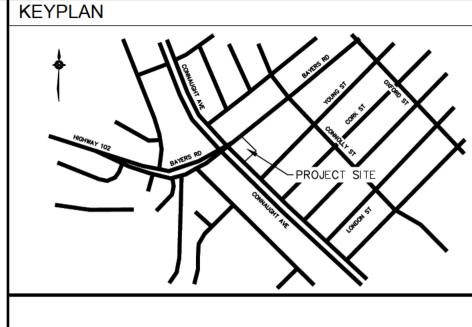
300mm - SUBBASE GRAVEL, NSTIR TYPE 2

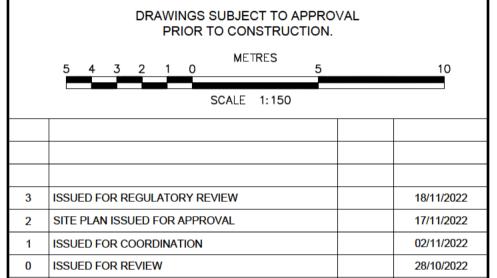
SUBGRADE COMPACTED AS PER GEOTECHNICAL REQUIREMENTS

NOTE: THICKNESSES SHOWN ARE MINIMUMS ONLY. GEOTECHNICAL REPORT TO GOVERN.









CHK'D

DATE



DESCRIPTION

SEAL

Phone: (902) 880-1354 www.hge-inc.ca



CLIENT NAME & ADDRESS



Saint John, New Brunswick **PROJECT NAME & ADDRESS**

IRVING OIL GAS BAR

Bayers Road, Halifax, Nova Scotia

SHEET DESCRIPTION

CONSTRUCTION NOTES AND TRUCK TURNING

SHEET NO.		NUMBER OF SHEETS
C105		5
DRAWN BY: MLP		CHECKED BY: DTH
DATE: 40/44/2022	CCVI E	1.150 DDO IECT NO 1122172