



LEGEND

	PROPOSED ELEVATION		EXISTING ELEVATION
	PROPOSED TOP OF DITCH ELEVATION		EXISTING TOP OF DITCH ELEVATION
	PROPOSED TOP OF CURB ELEVATION		EXISTING TOP OF CURB ELEVATION
	PROPOSED TOP OF SWALE ELEVATION		EXISTING STORM MANHOLE
	PROPOSED BOTTOM OF SWALE ELEVATION		EXISTING SANITARY MANHOLE
	FFE		EXISTING CATCHBASIN
	NEW ROAD DESIGN GRADE		EXISTING DITCH INLET CATCH BASIN
	GRADE AND DIRECTION		EXISTING TOP OF GRATE
	MAXIMUM 3:1 SIDESLOPE		EXISTING HYDRANT CW VALVE
	PROPOSED SWALE		EXISTING UTILITY POLE CW GUY WIRES
	PROPOSED CURB		EXISTING LIGHT STANDARD
	PROPOSED DEPRESSED CURB		EXISTING FENCE
	PROPOSED CULVERT		EXISTING OVERHEAD WIRES
	PROPOSED STORM MANHOLE		EXISTING TRANSFORMER
	PROPOSED CATCHBASIN MANHOLE		
	PROPOSED CATCHBASIN		
	PROPOSED LANDSCAPE DRAIN		
	PROPOSED SANITARY MANHOLE		
	PROPOSED VALVE & VALVE BOX		
	PROPOSED FIRE HYDRANT		
	PROPOSED TRANSFORMER		
	DIRECTION OF MAJOR OVERLAND FLOW		
	PROPOSED STORMCEPTOR		
	PROPOSED BUILDING ENTRANCE		

- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
 - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
 - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
 - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL, AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL.
 - ALL ELEVATIONS ARE GEODETIC.
 - REFER TO GEOTECHNICAL INVESTIGATION NO. 13-083, DATED AUGUST, 2013 PREPARED BY HOLLE CHEVRIER ENGINEERING FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
 - REFER TO THE DEVELOPMENT SERVING STUDY AND STORMWATER MANAGEMENT REPORT (R-2013-105, AUGUST, 2013) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
 - SAW CUT AND KEY GRIND ASPHALT AT ALL ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

- GRADING NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS.
 - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL CONSULTANT.
 - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
 - THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
 - GRADE AND/OR FILL BEHIND PROPOSED CURBS AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
 - MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
 - ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
 - ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1-1).

- EROSION AND SEDIMENT CONTROL NOTES:**
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS. PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION COMPLY WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - THE CONTRACTOR SHALL PLACE FILTER CLOTH UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

LIGHT DUTY ASPHALT	GRAVEL
50mm SUPERPAVE 12.5 150mm GRANULAR A' 300mm GRANULAR B' TYPE II	200mm GRANULAR A' 300mm GRANULAR B' TYPE II
HEAVY DUTY ASPHALT	TURFSTONE
40mm SUPERPAVE 12.5 50mm SUPERPAVE 19.0 150mm GRANULAR A' 450mm GRANULAR B' TYPE II	80mm UNLOCK TURFSTONE 25mm BEDDING SAND 150mm GRANULAR A' 450mm GRANULAR B' TYPE II

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

SCALE		FOR REVIEW ONLY	
1:400		CHECKED	CJO
1:400		DRAWN	MS
0 4 8 12 16		APPROVED	CJO
2. REVISED PER CITY OF OTTAWA COMMENTS		FEB 7/14 MS	
1. ISSUED FOR SITE PLAN APPLICATION		NOV 5/13 MS	
No.	REVISION	DATE	BY

NOVATECH ENGINEERING CONSULTANTS LTD.

LOCATION
955 DAIRY DRIVE, CITY OF OTTAWA
VW ORLEANS / TRIMTERRA DEVELOPMENTS

DRAWING NAME
GRADING, EROSION SEDIMENT CONTROL PLAN

PROJECT No. 113071-00
REV # 02
DRAWING No. 113071-GR

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