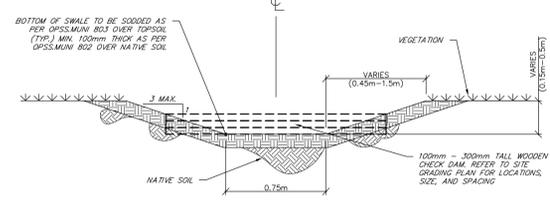
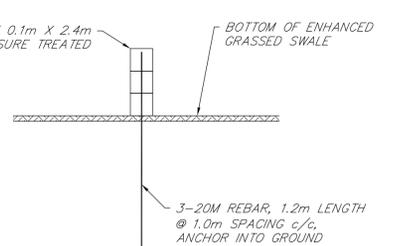


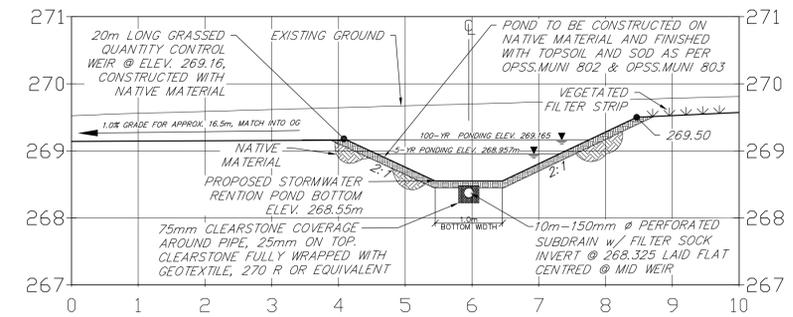
1 SITE GRADING PLAN  
SCALE: 1:250



2 TYPICAL ENHANCED SWALE SECTION  
SCALE: 1:125



3 WOODEN CHECK DAM SECTION  
SCALE: 1:15



4 RETENTION POND SECTION @ WEIR  
SCALE: 1:50

- GENERAL INFORMATION:**
- SITE LOCATION: 2687 HIGHWAY 144, CHELMSFORD, ON.
  - OVERALL SCOPE OF WORK: GRADING, DRAINAGE, AND STORMWATER MANAGEMENT POND FOR SITE REFRESH, AS DELINEATED WITH ELEVATIONS, NEW SITE FINISHES, AND OTHER DETAILS.
  - EXISTING SITE TOPOGRAPHICAL INFORMATION AND DETAILS PREPARED BY BORTOLUSSI SURVEYING LTD.
  - THE LOCATION OF EXISTING SERVICE DETAILS IS APPROXIMATE, AND ALL SERVICES ARE NOT NECESSARILY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTION OF ALL UTILITIES AND SERVICES.
  - ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SUPPLIED DRAWINGS, RELEVANT ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS, AND OWNER REQUIREMENTS.
  - CONTRACTOR IS TO ABIDE BY ALL APPLICABLE HEALTH & SAFETY REQUIREMENTS.
  - DIMENSIONS ARE IN METRIC UNLESS OTHERWISE INDICATED.
  - ALL AREAS OF EXISTING SITE DISTURBED BY CONSTRUCTION ARE TO BE REHABILITATED TO PRE-CONSTRUCTION CONDITIONS OR BETTER, TO THE SATISFACTION OF THE OWNER AND GENERAL MANAGER OF INFRASTRUCTURE SERVICES.
  - ONCE MATERIALS ARE CONFIRMED WITH SITE OWNER TO BE UNWANTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL.
  - ELEVATIONS TO BE FIELD SET AS NECESSARY. ENSURE POSITIVE DRAINAGE TO SITE STORMWATER MANAGEMENT POND.
  - PROVIDE MIN. 100mm TOPSOIL AND SOD WITHIN LANDSCAPED SECTIONS.
  - THE WORK SHALL ONLY BE CARRIED OUT BY A QUALIFIED CONTRACTOR.
  - CAREFULLY STAKE OUT PROPERTY LINES AT OUTSET OF PROJECT.
  - ALL DISTURBED AREAS WITHIN THE MUNICIPAL RIGHT-OF-WAY SHALL BE RECTIFIED TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE GENERAL MANAGER OF GROWTH AND INFRASTRUCTURE.
  - WHERE CONSTRUCTION ACTIVITY TAKES PLACE WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF GREATER SUBURBY DESIGN STANDARDS AND SPECIFICATIONS, OR THE ONTARIO PROVINCIAL STANDARDS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF GREATER SUBURBY, BE USED WHERE NO STANDARD SPECIFICATION IS NOTED.
  - THE ENGINEER'S CERTIFICATION SUBMISSION FOR ALL WORK COMPLETED IN THE MUNICIPAL RIGHT OF WAY AND ALL PIPE WORK CONSTRUCTED ON PRIVATE PROPERTY SHALL BE IN CONFORMANCE WITH THE CITY'S CERTIFICATION REQUIREMENTS.
  - PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR OR DEVELOPER WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS, AND SERVICE CONNECTION PERMITS FROM THE CITY'S INFRASTRUCTURE SERVICES.

- SEDIMENTATION CONTROL:**
- SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
  - ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREAS ARE STABILIZED.
  - IF NECESSARY, WEIRS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
  - STABILIZED CONSTRUCTION ENTRANCE/EXIT (VEHICLE TRACKING CONTROL PAD) SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS, AND SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
  - THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
  - UNDER TAKE CONTROL MEASURES TO PREVENT NUISANCES DUE TO DUST IN ANY PHASE OF CONSTRUCTION.
  - ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT THE SITE FROM TEMPORARY CONSTRUCTION ACCESS. NOTED.
  - ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF GREATER SUBURBY NOISE BYLAW.
  - ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
  - FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
  - WHERE CONSTRUCTION ACTIVITY TAKES PLACE WITHIN THE CITY RIGHT OF WAY, SEDIMENT CONTROLS WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREETS ACROSS THE PROPERTY'S FRONTAGE.
  - STREET SWEEPING, CATCHBASIN CLEANING, AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE GENERAL MANAGER OF GROWTH AND INFRASTRUCTURE.
  - SURFACE EROSION PROTECTION SHOULD BE APPLIED FOR ALL DISTURBED AREAS, SUBJECT TO EROSION, UNIT VEGETATION IS ESTABLISHED.
  - A LOG BOOK SHALL BE KEPT ON SITE INDICATING INSPECTION SCHEDULES, REPAIRS MADE, & ANY CONCERNS NOTED.
  - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER CATCHBASINS.
  - SILT FENCE BARRIERS AS PER OPSD 219.110.
  - ALL SILTATION CONTROL MEASURES ARE TO BE INSPECTED DAILY AND LOGGED TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE MAINTAINED AND/OR UPDATED AS NECESSARY.
  - ENSURE THAT EXCAVATED MATERIAL IS NOT ALLOWED TO WASH UNWANTED INTO SURROUNDING DRAINAGE COURSES.
  - IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEMS ARE ADDRESSED.
  - INSTALL ADDITIONAL SEDIMENTATION CONTROL MEASURES IF IT IS OBSERVED THAT CONSTRUCTION ACTIVITIES NEGATIVELY IMPACT SURROUNDING PROPERTIES OR DRAINAGE STRUCTURES NOT ALREADY PROTECTED.

CAUTION: DO NOT SCALE DRAWINGS.  
THIS REPRODUCTION MAY BE AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. EXP ASSUMES NO RESPONSIBILITY FOR INCORRECT SCALING. UNAUTHORIZED REPRODUCTION OR USE IS EXPRESSLY PROHIBITED. NOT PUBLISHED. ALL RIGHTS RESERVED. EXP EXPRESSLY DISCLAIMS RESPONSIBILITY ARISING FROM UNAUTHORIZED USE OF THESE DRAWINGS AND NOTES. AUTHORIZATION MUST BE IN WRITING.  
© exp. 2018

**LEGEND**

	EXISTING CONTOURS
	EXISTING DITCH CENTERLINE
	EXISTING CULVERT
	EXISTING BUILDING
	STRAWBALE FLOW CHECK DAM
	PROPOSED FINISHED FLOOR ELEVATION
	PROPOSED GRADIENT
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	PROPOSED SNOW DUMP BOUNDARY
	PROPOSED SILT FENCE BARRIER
	PROPOSED BUILDING
	PROPOSED VEGETATED FILTER STRIP
	PROPOSED UNDERDRAIN
	PROPOSED CHECK DAM
	PROPOSED ENHANCED SWALE
	PROPOSED STORM WATER MANAGEMENT POND
	PROPOSED OVERLAND WEIR

No.	Revision	By:	Date
4	REVISED FOR APPROVAL	PF	2021-06-16
3	ISSUED FOR CLIENT REVIEW	PF	2021-05-27
2	ISSUED FOR BUILDING PERMIT APP.	PF	2021-03-16
1	ISSUED FOR DRAFT REVIEW	PF	2021-03-10

**REVISED FOR APPROVAL**



Drawn By:	JSS	Scale:	1:250
Checked By:	JJD	Date:	2021-03-16
Approved By:	P.F.	Date:	2021-03-16
Date Printed:	2021-05-27		

File Name: 21001401-2687 HWY 144 CHELMSFORD GARAGE

Project Title  
**2687 HWY 144 CONTRACTOR GARAGE & YARD, CHELMSFORD, Ont.**

**Bravo Construction**

Dwg. Title  
**SITE GRADING PLAN & DRAINAGE DETAILS**

Project No.  
SUD-21001401-A0

Dwg. No.  
**C-1**

Rev. No.  
**4**