7(7154023-100000-41-D01-000	11	10	9	8	7	7	6	5	4	3	2	1	_	
	GENERAL:			- NATIVE SOILS BELOW	GROUNDWATER - TYPE 4 SOIL SLOPED FRO	OM THE BOTTOM OF THE EXCAVATION NO STE	EEPER 14.	THE SELECTION OF (COMPACTION EQUIPMENT SHALL BE SUE	BJECT TO THE APPROVAL OF THE GEOTECHNICAL		<u>LEGEND:</u>		1	
	1. PROJECT COORDINATES ARE SET IN NAI	AD83 (CSRS), MTM ZONE 9 PROJEC	CTION.	THAN 3H:1V.				ENGINEER AND THE CONTINUING SATISFACTORY PERFORMANCE. 15. STOCKPILING AND STORING OF FILL MATERIALS AT SELECT LOCATIONS SHALL FOLLOW THE RECOMMENDATIONS PROVIDED IN THE EROSION AND SEDIMENT CONTROL PLANS. THE CONTRACTOR SHALL EXERCISE EVERY PRECAUTION NECESSARY AND BEST PRACTICES TO PREVENT SEGREGATION OF PARTICLE SIZES. STOCKPILED MATERIAL SHALL MEET THE GRADATION REQUIREMENTS ABOVE. 16. GRANULAR FILL MATERIALS SHALL NOT BE CONTAMINATED BY MIXING WITH OTHER MATERIALS. FILL MATERIALS WHICH HAVE BECOME CONTAMINATED SHALL BE REMOVED AND REPLACED.				GATE VALVEPROPOSED CATCHBASIN	J.		
	 ALL COORDINATES AND ELEVATIONS AR ALL ELEVATIONS SHOWN ARE GEODETIC 		HERWISE.									DRAFT FIRE HYDRANT		Н	
н			PROJECT STANDARDS, SPECIFICATIONS, THE	OHSA PURPOSES SHALL BE CONFIRMED AT THE TIME THE EXCAVATION IS OPEN. 10. WHERE SIDE SLOPES OF EXCAVATIONS ARE REQUIRED TO BE STEEPENED, SUPPORT OF EXCAVATED WALLS MAY BE REQUIRED PER THE REVIEW AND RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. 11. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL ADOPT EXCAVATION PROCEDURES SUCH THAT			20 1 011					REMOTE FIRE HYDRANT OLS LIGHT STANDARD			
''	LATEST GEOTECHNICAL REPORT AND LO	OCAL LAWS AND REGULATIONS C	CONCERNING HEALTH AND SAFETY.									PROPOSED MANHOLE			
			IMENSIONS AND EXISTING SITE CONDITIONS									• CATCH BASIN MANHOLE			
	BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ENGINEER OF RECORD.			THE STABILITY OF ANY SLOPE IS NOT IMPAIRED. ENGINEER'S ACCEPTANCE OF EXCAVATION PROCEDURES AND/OR				17. FINAL SURFACE OF ENGINEERED FILLS SHOULD BE PROTECTED FROM CONSTRUCTION TRAFFIC AND SLOPED TO			OHP EXISTING HYDRO POLE UNDERGROUND				
			NUMENTS, U/G UTILITIES INCLUDING WATER,			ESPONSIBILITY FOR SAFEGUARDING THE STA	ABILITY			NSTRUCTION PERIOD. ADDITIONAL SOIL COVER FOR SURFACED ARE LEFT EXPOSED DURING PERIODS		UTILITY MARKER TB TERMINAL BOX			
	GAS, SANITARY, STORM SYSTEM, ELECT WORK UNDER THIS CONTRACT.	TRICAL & COMMUNICATION CON	IDUITS PRIOR TO COMMENCEMENT OF ANY			ED FOUNDATION SOILS AND EXCAVATIONS D	DRY AT	OF FREEZING WEATHE		CONTINUED AND LET I EN COLD BOTHING I ENIODO		BOLLARD			
	7. ENVIRONMENTAL PERMITTING TO BE CO	OMPLETED BY OTHERS.		ALL TIMES.			FOLI	NDATION CONSIDERATION	ONG			BLOW OFF VALVE (V) VENT			
			ORT "SOUTH MARCH ROAD BATTERY ENERGY ON", PROJECT #H375142-0000-2A0-230-0001.		OULD BE DIRECTED FROM ANY OPEN EXC HE OHSA AND REGULATIONS FOR CONSTRU	CAVATION AND ALL TEMPORARY EXCAVATIC JCTION PROJECTS.	ONS IN 100 1.			ELEMENTS, SUCH AS THE SUBSTATION, SHOULD BE					
	REV.A, DATED FEBRUARY 28, 2025.	THE GEOTECHNICAL INVESTIGATION	JN, PROJECT #H373142-0000-2A0-230-0001,			JMPS AND SUMPS. CONSIDERATIONS MAY AL	LSO BE			IAL SUCH AS GRANULAR B TYPE I TO PROTECT		BESS			
\circ	9. SITE SURVEY PROVIDED BY TULLOCK GE	EOMATCICS INC, ISSUED MARCH	11, 2025, SURVEY FILE #241451.	GIVEN TO REDUCING T BASE.	HE LENGTH OF AN OPEN EXCAVATION AT (ONE TIME, OR THE USE OF A TREMIE PLUG A	AT THE 2.	FROM FROST ADHESIC		WHERE HARD SURFACING LIKE ASPHALT OR		MV TRANSFORMER BESS (AUGMENTATION)			
G	CLEARING AND GRUBBING				LL BE WELL DRAINED AND LEFT IN A STA	ABLE AND SAFE CONDITION, TO THE ENGIN	NEER'S	,		DPING THE BACKFILL FROM 1.8m BELOW FINISHED		MV TRANSFORMER (AUGMENTATION)		G	
		ITEM COMPRISES THE SUPPLY O	F ALL LABOUR, PLANT AND MATERIAL, AND	,	ADDITIONAL COST TO OWNER. THE SURFATISFACTORY TO THE ENGINEER.	ACES OF DISPOSAL AREAS SHALL BE TRIMM	MED TO			'. BACKFILL SHALL BE PLACED IN 200mm LIFTS AND EQUIPMENT. THE UPPER 0.3m OF BACKFILL IN		DISTRIBUTION PANELS			
	THE PERFORMANCE OF ALL WORK NE SHOWN ON THE DRAWINGS.	IECESSARY FOR CLEARING AND	GRUBBING THE CONSTRUCTION LIMIT AS	LINES AND GRADES SA	HOLACTORY TO THE ENGINEER.					SOILS AND THE EXTERIOR GRADE SHOULD SLOPE		EXISTING FENCE PROPOSED FENCE			
		ISIST OF CUTTING AND DISPOSING	G OF ALL TREES, HEDGES SHRUBS ALIVE OR	FOUNDATION PREPARATION			3	AWAY FROM THE STRU		WITH THE GEOTECHNICAL RECOMMENDATIONS BY		→ STM → STORM PIPE			
	DEAD, DEBRIS AND ALL OTHER PERISHAL	•			ATION SHALL BE COMPLETED IN ACCORDA THE SUPERVISION AND APPROVAL OF THE	NCE TO THE GEOTECHNICAL RECOMMENDA	ATIONS 0.		HE SUPERVISION AND APPROVAL OF THE G			W WATER LINE			
	SHALL BE CUT OFF AT THE NATURAL GR		ON LIMIT. ALL TREES, HEDGES, AND SHRUBS OF THE CONSTRUCTION ZONE.			ARTH FOUNDATION SURFACE UNTIL THE SUR	4. IRFACE		L SHALL CONSIST OF A 150mm THICK LAYE			EXISTING WATERCOURS OFFSET LINE	E		
			ICE OF INTENT TO CLEAR AREAS. THE LIMITS			CAL ENGINEER. FINAL PREPARATION OF E	EARTH 5.			mm OVERLAYING GRANULAR B TYPE II SUBBASE. CK LOOSE LIFTS AND COMPACTED TO 98% SPMDD		EXISTING TRANSMISSION	LINE		
	OF CLEARING AS APPROVED BY THE ENG ADHERED TO.	NGINEER OF RECORD AND AS SPE	CIFIED HEREIN SHALL BE STRICTLY		BE PERFORMED IMMEDIATELY PRIOR TO FIL REMOVAL OF OVERBURDEN. THE EXPOSED	LL PLACEMENT. SUBGRADE SURFACE SHOULD BE HEAVILY F	PROOF		RATORY COMPACTION EQUIPMENT.			PROPERTY LINE BT BURIED TELECOMMUNIC	PATIONS		
	4. REMOVE ALL CLEARED MATERIAL FROM		CORDING TO LOCAL REGULATIONS, CLIENT	ROLLED WITH A SUITAE	BLE EQUIPMENT, IN CONJUNCTION WITH IN:	SPECTION BY A GEOTECHNICAL ENGINEER. L	LOOSE 6.			1.8m OF SOIL COVER MEASURED PERPENDICULAR OF THE FOOTING FOR FROST PROTECTION AS PER		BE BURIED ELECTRIC			
Г	PROCEDURES AND IN A MANNER ACCEP	PTABLE TO THE ENGINEER OF RE	CORD.		IRING THE PROOF-ROLLING ACTIVITIES SH DER THE SUPERVISION AND DIRECTION OF	HOULD BE SUB-EXCAVATED AND REPLACED THE GEOTECHNICAL ENGINEER.	WITH C	OPSD 3090.101. ALTE	RNATIVELY, RIGID STYROFOAM INSULATIO	N MAY USED TO COMPENSATE FOR THE LACK OF		SWALE			
				4. THE CONTRACTOR SHA	ALL NOT PLACE FILL MATERIAL ON FOUNDA	ATION SURFACES WITHOUT WRITTEN ACCEPT	TANCE	SOIL COVER PER THE	RECOMMENDATIONS OUTLINED IN THE GE	OTECHNICAL REPORT.		PROPOSED GRAVEL SURFACE AREA			
	STRIPPING, STOCKPILING AND DISPOSING OF		Y OF ALL LABOUR, AND THE PERFORMANCE		ARATION FROM THE GEOTECHNICAL ENGIN	NEER. IFTENED OR CONTAMINATED AS A RESUL	UT OF	EMENT CONSIDERATION	-			PROPOSED INSULATING STONE SURFACE AREA			
			R SUBSEQUENT REUSE OR DISPOSAL FROM			AND SUBCONTRACTORS WITH OBJECTION	1.			SHALL BE COMPLETED IN ACCORDANCE WITH ER THE SUPERVISION AND APPROVAL OF THE		STONE SURFACE AREA PROPOSED DIVERSION DITCH			
	THE CONSTRUCTION ZONE.			,		ID THE FOUNDATION PREPARED AGAIN TO	O THE		NEER AND SHALL CONSIST OF THE FOLLOW			DITCH PROPOSED 450 Ø			
			FROM THE ENGINEER OF RECORD. TOPSOIL FROL (ESC) MEASURES ARE IMPLEMENTED.		ENGINEER, AT NO ADDITIONAL COST TO ON CAUTIONS SHALL BE TAKEN TO PRESERVE	WNEK. EIN A SOUND, UNDISTURBED AND UNSHAT	TERED		OF GRANULAR A BASE COURSE COMPACT			CULVERT			
	3. THE CONTRACTOR SHALL PROVIDE ADE		,		IIAL BELOW AND BEYOND THE LIMITS OF EX	,	2		OF GRANULAR B TYPE II SUBBASE COURS	E COMPACTED TO 98% SPMDD. ND SHOULD BE WITHIN \pm 2% OF THE MATERIALS					
			OF THE WORK UNDER THIS ITEM AND SHALL NER OR OWNER'S REPRESENTATIVE AND/OR				۷.	OPTIMUM MOISTURE (ND SHOOLD BE WITHIN ± 2% OF THE WATERIALS					
_			NER OR OWNER'S REPRESENTATIVE AND/OR NTLY FOR STABILITY. STOCKPILED MATERIAL		ERIAL. PLACEMENT. AND QUALITY CONTR	OL SHALL BE COMPLETED IN ACCORDANCE	3. E WITH			BE COMPLETED UNDER THE SUPERVISION OF THE	Γ	ABBREVIATIONS]		
	SHALL NOT BLOCK DRAINAGE OF NATUR			THE GEOTECHNICAL	RECOMMENDATIONS BY HATCH AND UN	DER THE SUPERVISION AND APPROVAL OF			NEER FOR EACH LIFT, UNLESS OTHERWISE SHALL BE SLOPED AT 2% OR GREATER T	O PROMOTE RUNOFF. THE SUBGRADE SHOULD BE	-				
	5. STRIPPED TOPSOIL MATERIAL IS NOT SU SITE, FOLLOWING LOCAL REGULATIONS		BE DISPOSED OF BY THE CONTRACTOR OFF AREA BY THE OWNER.	alo i loi ii vio il li vaii v		HE LINES AND GRADES SHOWN ON THE DRAY	WINGS		NTRELINE AND SLOPED BETWEEN 3% AND			BOD BOTTOM OF DITCH			
					THE ENGINEER AND GEOTECHNICAL ENGIN		5.		,	REAS WHERE BEDROCK IS NOT EXPOSED AT THE OTEXTILE REINFORCING (E.G., TERRAFIX 300R OR		BW BOTTOM OF WALL			
	UNDERGROUND UTILITIES					TING DURING CONSTRUCTION. THE CONTRA		, ,		GRID (TENSAR BX1500 OR EQUIVALENT). ADJACENT		CB CATCH BASIN			
-		R REFERENCE ONLY. THE CONTR.	ACTOR IS REQUIRED TO OBTAIN THEIR OWN			LLS IN ORDER TO MEET THE REQUIREMEN HNICAL ENGINEER. THE CONTRACTOR SHA		SHEETS OF GEOTEXTI	LE SHOULD BE OVERLAPPED A MINIMUM 45	50 MM.		CL CENTRE LINE		←	
	LOCATE DATA PRIOR TO COMMENCING				OR THE QUALITY OF WORK IN ACCORDANC							COMM COMMUNICATION			
	ALL UTILITY INFORMATION SHALL BE VEF FOR PRIVATE UTILITY WORK, UNDER NO.		BY THE CONTRACTOR. ERVICE BE INTERRUPTED WITHOUT WRITTEN			ES ADVANCED AT THE SITE ARE NOT CONSID AS SUCH AS BENEATH PROPOSED FOUNDA	TIONS TREI	NCH BACKFILL				Dia,D DIAMETER			
	PERMISSION FROM THE UTILITY OWNER.		Enviol be inversion tes without with tell	ACCESS ROADS OR I	JTILITIES. HOWEVER, THIS MATERIAL COL	ULD BE USED FOR GENERAL GRADE RAIS	, 1			ND FILL WITH THE FOLLOWING PROPERTIES. MAL RESISTIVITY OF 0.75 °CM/W (RHO) WITH A		E EASTING			
D			CCORDANCE WITH THE DRAWINGS AND ERWISE SPECIFIED. THE WORK SHALL BE	LANDSCAPE AREAS AROUND THE PROPOSED DEVELOPMENT. 5. NATIVE SOILS ARE CONSIDERED SUSCEPTIBLE TO OVER-WETTING AND SUBSEQUENT FREEZING. AS SUCH. SITE			- QITE	MOISTURE CONTENT EQUAL OR LOWER THAN 2%, AS NOTED ON THE ELECTRICAL DRAWINGS. FILL TO BE				EG EXISTING GROUND			
	COORDINATED WITH PRIVATE OWNER.		ENWISE SPECIFIED. THE WORK SHALL BE			OUT DURING LATE FALL, WINTER, EARLY S	,	COMPACTED TO 95% ADDITIONAL DETAILS.	OF MODIFIED PROCTOR IN LAYERS OF 20	00mm MAX. REFER TO ELECTRICAL DRAWINGS FOR		EL ELEVATION			
					ODS OF INCLEMENT WEATHER.	IOUID DE DEVIEWED AND ADDROVED D	2.		MATERIAL FOR DRAINAGE PIPES AND CULV	VERTS SHALL BE GRANULAR A PLACED AND		FG FINAL GRADE			
	EXCAVATION AND GROUNDWATER MANAGEME		COMPLETED IN ACCORDANCE WITH THE	CENTECHNICAL ENGIN		IOULD BE REVIEWED AND APPROVED BY G MATERIAL TO SITE. IMPORTED ENGINEERE			D ON THE CIVIL DRAWINGS. REFER TO CIVI			HV HIGH VOLTAGE			
			SUPERVISION AND APPROVAL OF THE	MATERIALS SHALL CO	•	SPECIFIED HERE), OR CRUSHED, CLEAN, SO	,		RIERIAL SHALL COMPLETED IN ACCORDAN RITHE SUPERVISION AND APPROVAL OF THI	ICE WITH THE GEOTECHNICAL RECOMMENDATIONS E GEOTECHNICAL ENGINEER.		LV LOW VOLTAGE			
	GEOTECHNICAL ENGINEER.	ODTINO AND OTOOKRILING MAT	TERIALO MUNOLL IN THE ORINION OF THE	QUANTITIES OF ORGA	,	PSOIL OR OTHER DEBRIS. MATERIALS CONTA RTICLES, DELETERIOUS MATERIAL, WHICH IN	1			ILS AND ENGINEERED FILL, OR AS RECOMMENDED		M METERS			
	GEOTECHNICAL ENGINEER, ARE SUITABLE		FERIALS WHICH, IN THE OPINION OF THE	OPINION OF THE GEOT	ECHNICAL ENGINEER ARE UNACCEPTABLE	,		BY THE GEOTECHNICA	L ENGINEER.			MH MANHOLE			
		,	UBMIT FOR REVIEW BY THE GEOTECHNICAL	GEOTECHNICAL ENGIN		/ING TYPES OR APPROVED EQUIVALENTS B		JLATION STONE			-				
	ENGINEER, DETAILS OF THE METHODS, SCHEDULE AND SEQUENCE OF OPERATIONS TO BE FOLLOWING FOR THE EXCAVATION TO BE CARRIED OUT AS SPECIFIED. 4. ALL FOUNDATION SUBGRADE CONDITIONS AFTER EXCAVATION AND CUT/FILL SLOPES SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO ENGINEERED FILL MATERIAL PLACEMENT AND FOUNDATION CONSTRUCTION.			a. GRANULAR A (OPSS	a. GRANULAR A (OPSS.MUNI 1010) b. GRANULAR B TYPE I (OPSS.MUNI 1010) c. GRANULAR B TYPE II (OPSS. MUNI 1010) ANY MATERIAL USED AS ENGINEERED FILL AND/OR GENERAL BACKFILL SHOULD BE REVIEWED AND APPROVED BY			 INSULATION STONE SHALL BE CLEAN STONE 16-22mm, WITH NO GREATER THAN 2% CONTENT HAVING SIZE LESS THAN 10mm, AND AT LEAST 50% OF MATERIAL HAVING SIZE GREATER THAN 18mm, WITH A MINIMUM RESISTIVITY VALUE OF 3000 OHM-M. THE CONTRACTOR SHALL CONFIRM RESISTIVITY PROPERTIES SHALL BE EVALUATED WITH ASTM G57 TEST 			-	N NORTHING			
\circ											-	QL QUALITY LEVEL			
C												RC REINFORCED CONCRETE			
		E FOUNDATION SOILS WILL BE	MADE BY THE GEOTECHNICAL ENGINEER.	THE GEOTECHNICAL E	NGINEER			"STANDARD TEST MET METHOD".	HOD FOR FIELD MEASUREMENT OF SOIL I	RESISTIVITY USING THE WENNER FOUR-ELECTRODE		SAN SANITARY			
	,		EQUIRED TO REMOVE ORGANIC AND OTHER SOILS CONSISTING OF NATIVE SILTY SAND	AVOID OF ODE OATION (NG OF ENGINEERED FILL MATERIALS SHALI DF SIZED AND TO OBTAIN A HOMOGENEOU:	L BE PERFORMED IN SUCH A MANNER AS TO S MASS.						SRW STATUTORY RIGHT OF WAY			
	TO SANDY SILT SOILS.	JENOE I GONDATION	THE SECOND OF THE OTHER SAND	9. PLACEMENT OF FILL M		ING A STABLE AND HOMOGENEOUS FILL WH KETS OF MATERIALS WHICH DO NOT SATISF		MEMBRANE TEXEL 7612 GEOTEX	THE OR APPROVED ECHNIVALENT WHILE	SE USED FOR THE VEGETATED DITCH. TEXEL 918		STA STATION			
			ATERIALS ENCOUNTERED AT THE BASE OF DESCRIPTION OF STREET	REQUIREMENTS OF TH		VETO OF MATERIALS MUICH DO NOT SATISF	, ,,,,∟ l.	GEOTEXTILE OR APPR	ROVED EQUIVALENT UNDER AND ABOVE	GEOMEMBRANE TEXEL TM240 GEOMEMBRANE OR	Ĺ	STM STORM		 	
	OF THE GEOTECHNICAL ENGINEER.	WILL DOLD WILL COMPACIED	, EINGHALLHED HILLO ONDEN THE DIRECTION			D FILLS AND NATIVE SOILS, OR AS RECOMME	ENDED	APPROVED EQUIVALE	NT TO BE USED FOR THE BESS AREA			TYP TYPICAL			
			NATTENDED OR UNPROTECTED AT ANY TIME	11 LINILEGO OTLIEDWICE O		LACED IN A MAXIMUM 300mm THICK LOOSE	E LIFTS								
			SHALL BE IN ACCORDANCE WITH THE HSA) AND REVIEWED SITE-SPECIFIC HEALTH	AND UNIFORMLY COM	PACTED TO 98% OF THE STANDARD PROC	CTOR MAXIMUM DRY DENSITY (SPMDD). FULI	L-TIME								
R	AND SAFETY PLAN.	·) OUT DURING PLACEMENT OF ENGINEERED I HE MATERIAL'S OPTIMUM MOISTURE CONTEN'								R	
	8. ALL TEMPORARY EXCAVATIONS MUST BENATIVE SOILS ABOVE GROUNDWATER -					ATER SHALL BE APPLIED OR REMOVED (I.E.,	•••								
	THAN 1H:1V (HORIZONTAL: VERTICAL); A		BOTTOM OF THE EXO, WITHOUT TO OTEEL EN	DRYING OR WETTING) TENGINEER.	O ENGINEERED FILL MATERIALS BY AMOUN	NTS AS APPROVED BY THE GEOTECHNICAL									
				LIVAIIVLLA.											
							<u> </u>	-	T _{a=}			PROJECT: SOLITH M	ADOU BESS	_	
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