LINE TYPES

DRAINAGE AREA LINE — DA — DA — DA — DA

SOIL TYPE BOUNDARY

BOUNDARY LINE – PARENT PARCEL

RIGHT OF WAY BOUNDARY

EDGE OF ASPHALT

EDGE OF CONCRETE

FENCE LINE – CHAIN — x — x — x — x — x — x — x — x — x —

1' CONTOUR LINE

5' CONTOUR LINE

LIMITS OF DISTURBANCE — LOD — LOD — LOD — LOD —

SILT FENCE — SF — SF — SF — SF —

LIMITS OF DISTURBANCE AND SILT FENCE — LOD/SF — LOD/SF — LOD/SF — LOD/SF —

TREE PROTECTION FENCE — TPF — TPF — TPF — TPF —

TREE OR VEGETATION LINE

LEGEND

16B HYDROLOGIC SOIL TYPE

DRAINAGE FLOW DIRECTION

M-6 MOCRO-BIORETENTION ESD

GRAVEL SURFACE

SOIL TABLE					
SYMBOL	NAME	SLOPES	HYDRIC SOIL	Kw	HYDROLOGIC SOIL GROUP
6A	BAILE SILT LOAM	0%-3%	NO	0.37	C
9C	LINGANORE-HYATTSTOWN CHANNARY SILT LOAM	8%-15%	NO	0.43	D
16B	BRINKLOW-BLOCKTOWN CHANNARY SILT LOAM	3%-8%	NO	0.43	D
16C	BRINKLOW-BLOCKTOWN CHANNARY SILT LOAM	8%-15%	NO	0.43	B
16D	BRINKLOW-BLOCKTOWN CHANNARY SILT LOAM	15%-25%	NO	0.37	C
17B	OCCOQUAN LOAM	3%-8%	NO	0.37	B
109D	HYATTSTOWN CHANNARY SILT LOAM	15%-25%	NO	0.49	D
116D	BLOCKTOWN CHANNERY SILT LOAM	15%-25	NO	0.49	D

CONCEPT PLAN NOTES

THIS CONCEPTUAL STORMWATER MANAGEMENT PLAN IS FOR THE CONSTRUCTION OF A TELECOM CAPITAL GROUP COMMUNICATION SITE. THE PROJECT INCLUDES CONSTRUCTING A NEW 12 FT GRAVEL ACCESS ROAD, GRADING THE COMPOUND AREA AND CONSTRUCTION OF THE 60'X60' COMPOUND AND ESD PRACTICE. THE STORMWATER MANAGEMENT FOR THE SITE IS ADDRESSED IN THIS CONCEPT PLAN. THE "SITE" IS IDENTIFIED AS THE LIMITS OF DISTURBANCE THAT INCLUDES THE NEW GRAVEL ACCESS ROAD, THE COMMUNICATION COMPOUND AND THE STORMWATER MANAGEMENT ESD PRACTICE.

NATURAL RESOURCE PROTECTION AND ENHANCEMENT:

SIGNIFICANT NATURAL FEATURES HAVE BEEN IDENTIFIED AND DEPICTED ON THE PLANS. THE 40.98 ACRE PROPERTY IS MOSTLY WOODED AND HAS A RESIDENTIAL HOUSE, SEVERAL HORSE TRAINING FACILITIES AND SUPPORT BUILDINGS AND A GRAVEL ACCESS ROAD. THERE ARE NO HIGHLY ERODIBLE SOILS OR STEEP SLOPES IN THE NEW PROJECT AREA. NO WETLANDS, SPRINGS, SEEPS, OR FLOOD PLAINS HAVE BEEN IDENTIFIED ON THE PROPERTY. THERE IS A SMALL 0.2 ACRE POND ON THE PROPERTY APPROXIMATELY 600 FT NORTHWEST OF THE NEW COMPOUND.

MAINTENANCE OF NATURAL FLOW PATTERNS:

THE SITE IN IT'S EXISTING AND PROPOSED CONDITION WILL MAINTAIN THE EXISTING FLOW PATTERNS. DRAINAGE FROM THE PROPOSED SITE WILL BE TREATED BEFORE BEING DISCHARGED.

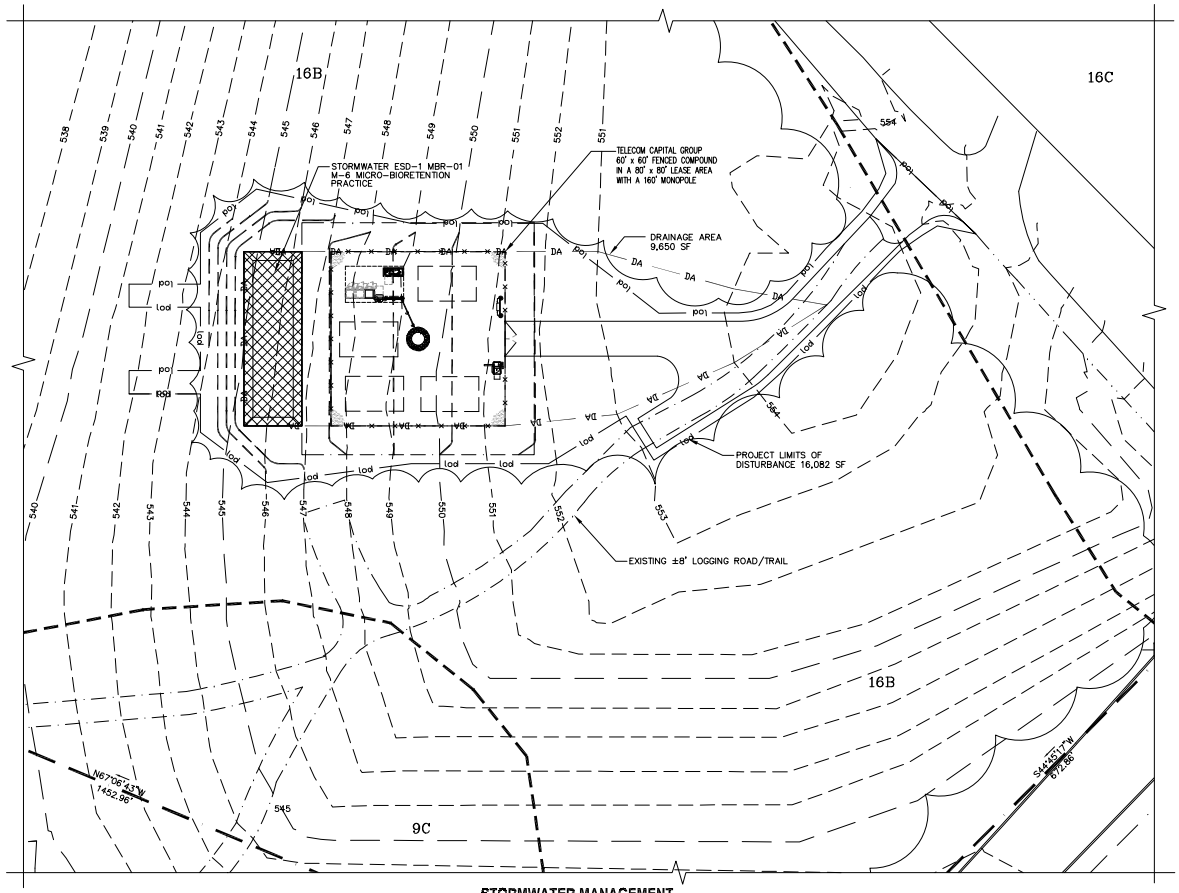
REDUCTION OF IMPERVIOUS AREAS THROUGH BETTER SITE DESIGN, ALTERNATIVE SURFACES, AND NON STRUCTURAL PRACTICES. THE PROPOSED DEVELOPMENT (LOD) IS 16,032 SF (0.37 AC) AND THE IMPERVIOUS AREA IS 6,520 SF (0.15 ACRE) ON THE 40.98 ACRE PROPERTY. NO STRUCTURAL PRACTICES ARE PROPOSED.

INTEGRATION OF EROSION AND SEDIMENT CONTROLS INTO THE STORMWATER STRATEGY:
SILT FENCES WILL BE INSTALLED ON THE DOWN SLOPE SIDE OF THE LIMITS OF DISTURBANCE.

IMPLEMENTATION OF ESD PLANNING TECHNIQUES AND PRACTICES TO THE MEP:
THE AREA USED TO COMPUTE THE REQUIRED ESD VOLUME IS THE ENTIRE LIMITS OF DISTURBANCE (LOD). SWM PRACTICES WERE CONSIDERED THAT TREATED THE IMPERVIOUS AREAS AS CLOSE TO THE SOURCE AS POSSIBLE. SOIL CONDITIONS AND SIZE OF THE DRAINAGE AREA WERE ALSO CONSIDERED BEFORE SELECTING THE TYPE OF ESD MEASURES AND ONLY MEASURES COMPATIBLE WITH SOILS TYPE 'D' WERE UTILIZED. THE SITE CONSISTS OF DRAINAGE AREA THAT EXTENDS THROUGH THE COMPOUND. THE MICRO-BIORETENSION M-6 PRACTICE IS PROPOSED TO TREAT THE STORMWATER. THE DRAINAGE AREA SHEET FLOWS THROUGH THE COMPOUND TO THE M-6 MICRO-BIORETENSION ESD PRACTICE. A RETANGULAR SHAPE FOR THE M-6 MICRO-BIORETENSION ESD PRACTICE WAS UTILITED TO MINIMIZE ADDITIONAL LAND DISTURBANCE AND TREE REMOVAL.

ADEQUATE OUTFALL:

A NON-EROSIVE VELOCITY WILL DISCHARGE FROM EACH ESD MEASURE ON THE SITE.



STORMWATER MANAGEMENT CONCEPT PHASE PARTIAL SITE PLAN

SCALE: 1" = 20'

1 / SW-3

GENERAL NOTES

1. UTILIZATION OF ENVIRONMENTAL SITE DESIGN: ONE MICRO-BIORETENSION PRACTICE HAS BEEN UTILIZED TO PROVIDE ENVIRONMENTAL SITE DESIGN TREATMENT AS CLOSE TO THE SOURCE AS POSSIBLE FOR THE SITE.

2. MAINTENANCE OF LIMITS OF DISTURBANCE TO PROTECT NATURAL AREAS: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTHWORK, AND ALL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AT THE END OF EACH WORK DAY.

3. CONTROL OF CONSTRUCTION EQUIPMENT AND VEHICLES: ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE THE SITE VIA THE NEW GRAVEL ROAD. NO VEHICLES ARE ALLOWED BEYOND THE GRAVEL ROAD OR THE LIMITS OF DISTURBANCE.

4. EVALUATION AND APPROPRIATE LIMITATION OF SITE CLEARING: SITE CLEARING AND GRADING HAS BEEN RESTRICTED TO THOSE AREAS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.

5. EVALUATION AND DESIGNATION OF SITE AREA FOR PHASING OR SEQUENCING: THE TOTAL DISTURBED AREA IS APPROXIMATELY 0.36 ACRES AND WILL CONSTRUCTED IN A SINGLE PHASE.

6. IDENTIFICATION OF SOILS AT HIGH RISK FOR EROSION AND ADVANCED STABILIZATION TECHNIQUES TO BE USED: NO HIGHLY ERODIBLE SOILS HAVE BEEN IDENTIFIED ON THIS SITE.

7. IDENTIFICATION OF STEEP SLOPES AND DESIGNATION OF LIMITATIONS ON CLEARING THEM: NO STEEP SLOPES HAVE BEEN IDENTIFIED WITHIN THE CONSTRUCTION AREA.

8. EVALUATION AND DESIGNATION OF STABILIZATION REQUIREMENTS AND TIME LIMITS AND PROTECTION MEASURES FOR DISCHARGE TO THE CHESAPEAKE BAY, IMPAIRED WATERS, OR WATERS WITH ESTABLISHED TOTAL MAXIMUM DAILY LOAD (TMDL): FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

A) THREE CALENDAR DAYS FOR ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND
B) SEVEN DAYS AS TO ALL DISTURBED OR GRADED AREAS IN THE PROJECT SITE.
ALL AREAS ARE TO BE STABILIZED WITH A MINIMUM OF 4" OF TOP SOIL SEED AND MULCH.

STORMWATER MANAGEMENT REQUIREMENTS				
PROPERTY AREA (AC)	IMPERVIOUS AREA (AC)	PERCENT IMPERVIOUS	TARGET Pe (IN)	ESDv (CF)
40.98	1.84	4.49	1.0	556

THE TARGET PE COMPUTED IN ACCORDANCE WITH MCDPS WRTP-5
REFER TO SHEET SW-4 FOR CALCULATIONS

ESD PRACTICES	PRACTICE NUMBER	DRAINAGE AREA	IMPERVIOUS AREA	ESDv PROVIDED
MICRO-BIORETENTION M-6	MBR-01	9,650 S.F.	4,198 S.F.	1,149 CF

REFER TO SHEET SW-4 FOR CALCULATIONS

TELECOM CAPITAL GROUP

entrex communication services, inc.
6100 Executive BLVD, Suite 350
Rockville, MD 20852
PHONE: (202) 408-8990

TCG BARNESVILLE SITE
22900 OLD HUNDRED ROAD
BARNESVILLE, MD 20838

SEAL:

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 12312, Expiration Date: 01-02-2024.

SUBMITTALS

DATE	DESCRIPTION	REV.
09-30-22	SW CONCEPT PLAN	

PROJECT NO: 1163.001
DESIGNER:
ENGINEER:

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34" SCALE AS SHOWN ON PLAN DETAIL

TITLE:
STORMWATER MANAGEMENT CONCEPT PHASE PARTIAL SITE PLAN

SHEET NUMBER:
SW-2

Exhibit 14(c)
OZAH Case No: CU 24-17