

POST-CONSTRUCTION STORMWATER  
MANAGEMENT (PSCM) PLAN OPERATION,  
OWNERSHIP AND MAINTENANCE PROGRAM

THE STORM WATER BEST MANAGEMENT PRACTICES (BMPs) CONSTRUCTED FOR 2520 MILL ROAD LAND DEVELOPMENT PLAN WILL BE MAINTAINED TO FUNCTION AS DESIGNED AND SHALL IMPLEMENT THE PROCEDURES DESCRIBED BELOW. THIS SHALL BE IN THE DEED OF THE LOT WHENEVER THE LOT IS SOLD TO ANOTHER. THE OWNER OF THE LOT SHALL OWN AND MAINTAIN THE STORMWATER FACILITIES WITHIN THE LOT.

THE APPROVED FACILITIES ARE TO BE PERMANENT AND CAN ONLY BE REMOVED OR ALTERED AFTER APPROVAL BY ONE OR MORE OF THE FOLLOWING ENTITIES WHICH HAVE JURISDICTION: UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY CONSERVATION DISTRICT, AND/OR PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PA DEP).

THE FOLLOWING PHYSICAL FACILITIES SHALL BE MAINTAINED TO THE ORIGINAL DESIGN AND DIMENSIONS SHOWN ON THE DESIGN PLANS APPROVED BY UPPER ALLEN TOWNSHIP, UNTIL SUCH TIME AS AN AMENDED PLAN IS APPROVED BY THE TOWNSHIP:

- STORMWATER INLETS, CONVEYANCE PIPES AND OUTLET CONTROLS
- STORMWATER PIPE OUTLETS
- STORMWATER INFILTRATION BASINS
- SOIL AMENDMENT AREA FOR BASIN FLOOR

INSPECTION REQUIREMENTS FOR ALL FACILITIES:

- THE OWNER SHALL COMPLETE A VISUAL INSPECTION OF THE FACILITIES AT A MINIMUM ONCE EVERY 12 MONTHS FOR THE FIRST FIVE YEAR AND ONCE EVERY THREE YEARS THEREAFTER OR DURING OR IMMEDIATELY AFTER THE CESSATION OF A MAJOR STORM EVENT.
- THE OWNER IS RESPONSIBLE TO SUBMIT A REPORT TO UPPER ALLEN TOWNSHIP WITHIN ONE MONTH FOLLOWING COMPLETION OF AN INSPECTION. THE REPORT WILL PRESENT DOCUMENTATION REGARDING THE CONDITION OF BMPs, AND RECOMMEND ANY NECESSARY REPAIRS. ANY NEEDED REPAIRS SHALL COMMENCE WITHIN 60 DAYS OF THE REPORT ISSUANCE DATE.
- THE OWNER SHALL IMMEDIATELY NOTIFY UPPER ALLEN TOWNSHIP PRIOR TO INITIATING ANY "MAJOR" REPAIR ACTIVITIES (SUCH REPAIRS THAT MAY BE REQUIRED AS A RESULT OF SETTLEMENT, SINKHOLES, SEEPS, STRUCTURAL CRACKING, FOUNDATION MOVEMENT). ALL "MAJOR" REPAIRS SHALL BE CONDUCTED UNDER THE DIRECTION AND SUPERVISION OF A QUALIFIED ENGINEER, GEOLOGIST, AND/OR HYDROGEOLOGIST.

INSPECTION AND MAINTENANCE PROCEDURES FOR EACH FACILITY SHALL BE CONDUCTED AS FOLLOWS:

1. STORMWATER INLETS, DETENTION AND CONVEYANCE PIPES AND OUTLET CONTROLS

GENERAL OBJECTIVES OF INSPECTION AND MAINTENANCE IS TO PREVENT CLOGGING OF INLET GRATES, PIPES AND OUTLET CONTROL ORIFICES, OVER ACCUMULATION OF SEDIMENT WITHIN PIPES, INLETS AND MANHOLES, STANDING WATER AND STRUCTURAL FAILURE.

INSPECTION PROCEDURES:

- INSPECTION SHALL INVOLVE AN EXAMINATION OF ON-LOT STORMWATER MANAGEMENT SYSTEM(S) FOR DEBRIS DEPOSITION (SUCH DEBRIS MAY INCLUDE, BUT SHALL NOT BE LIMITED TO AGGREGATE MATERIAL, LEAVES, GRASS CLIPPINGS, AND SOIL MATERIAL), SETTLEMENT, SINKHOLES, SEEPS, AND STRUCTURAL CRACKING.
- INSPECT ALL PIPE INLETS AND OUTLET CONTROL ORIFICES WITHIN THE INLET AND MANHOLES BOXES. ALSO INSPECT ALL INLET GRATES. ANY TRASH, DEBRIS OR SEDIMENT WHICH MAY CAUSE CLOGGING OR STANDING WATER SHALL BE REMOVED.
- INSPECT GENERAL CONDITION OF INLETS AND MANHOLES FOR CRACKING OF CONCRETE OR SETTLING.
- INSPECT PIPE CONNECTIONS WITHIN INLET AND MANHOLE BOXES FOR PIPES DISPLACEMENT.
- INSPECT AREAS ON THE GROUND SURFACE FOR ASPHALT SETTLING OVER PIPES.

2. STORMWATER PIPE OUTLETS

GENERAL OBJECTIVES OF INSPECTION AND MAINTENANCE IS TO PREVENT EROSION AND SEDIMENTATION IMMEDIATELY DOWN-SLOPE OF PIPE OUTLETS.

INSPECTION PROCEDURES:

- INSPECT ALL PIPE OUTLETS. ANY TRASH, DEBRIS OR SEDIMENT WHICH MAY CAUSE CLOGGING OR BACK UP OF WATER WITHIN THE PIPE SHALL BE REMOVED.
- INSPECT GENERAL CONDITION OF ENDWALLS FOR CRACKING OF CONCRETE OR SETTLING.
- INSPECT AREA DOWN-SLOPE OF PIPE FOR EROSION OR SETTLING OF GROUND SURFACE OR DISPLACEMENT OF STONE FROM THE ROCK APRON.

3. STORMWATER INFILTRATION BASIN:

GENERAL OBJECTIVES OF INSPECTION AND MAINTENANCE IS TO PREVENT LONG TERM STANDING WATER AFTER RAINFALL EVENTS, PREVENT WEEDS AND NOXIOUS PLANTS. ALSO, CONDUCT INSPECTION AND MAINTENANCE PROCEDURES FOR INLETS AND OUTLET PIPES WITHIN THE BASINS AS OUTLINED ABOVE WITHIN THE "STORMWATER INLETS, DETENTION AND CONVEYANCE PIPES AND OUTLET CONTROLS" SECTION.

INSPECTION PROCEDURES:

- INSPECT FACILITIES AFTER MAJOR RAINFALL EVENTS FOR STANDING WATER WHICH REMAINS IN THE BASIN FOR OVER TWO (2) DAYS.
- INSPECT CONDITION OF GRASS COVER. GRASSES WITHIN THE FLOOR OF THE FACILITY SHOULD BE DENSE AND MAINTAINED AT A MINIMUM LENGTH OF 6" AND MAXIMUM LENGTH OF 12". THE EXISTENCE OF INVASIVE SPECIES SHOULD BE MINIMAL.
- INSPECT FLOOR OF FACILITY FOR THE EXISTENCE OF GROUND SETTLING OR SINKHOLES.
- INSPECT FOR THE PRESENCE OF TRASH, DEBRIS OR SEDIMENT.

4. SOIL AMENDMENT AREA FOR BASIN FLOOR AREA:

- YEAR 1: FIRST GROWING SEASON MAINTENANCE
- WHENEVER CANOPY HEIGHT (OVERALL VEGETATION) REACHES 18"-24", USE A STRING TRIMMER TO TRIM THE BASIN FLOOR AND SWALE TO A HEIGHT OF 8". A LAWN MOWER IS NOT RECOMMENDED FOR TRIMMING AS THE MOWER HEIGHT WILL BE TOO LOW AND NATIVE SEEDLINGS WILL BE KILLED. TRIMMING SHOULD CEASE BY MID-SEPTEMBER.
- PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED HERBICIDE, SUCH AS RODEO.
- YEAR 2: SECOND & SUBSEQUENT GROWING SEASON MAINTENANCE
- PRIOR TO NEW SPRING GROWTH REACHING A HEIGHT OF 2", STRING TRIM ANY MATERIAL STANDING FROM PREVIOUS YEAR CLOSE TO THE GROUND. IF MOW CONTAINS SEEDS, TRIMMING SHALL BE NO LOWER THAN 2" ABOVE THE CROWNS THAT PRODUCED THE PRIOR YEARS GROWTH.
- IF A HEAVY INFESTATION OF RAGWEED OR FOXTAIL IN THE SECOND GROWING SEASON IS NOTICED, TRIM PLANT MATERIAL TO A HEIGHT OF 8".
- MAINTAIN GROUNDCOVER VEGETATION. STRING TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION, AND TO SUPPRESS WEEDS AND INVASIVE / EXOTIC VEGETATION. STRING TRIM ONLY WHEN DRY, TO AVOID SOIL COMPACTION.
- FOR ANY EROSION, RILLS AND GULLIES, CORRECT AS NEEDED. RE-VEGETATE AND REPAIR AREAS IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED IN THE APPLICABLE EROSION AND SEDIMENT POLLUTION CONTROL PLAN, AND IMMEDIATELY REPAIR ANY EROSION DAMAGE BY REPLACING TOPSOIL ON ALL AREAS THAT EXPERIENCE MINOR EROSION, AND SEEDING, MULCHING AND MATING SUCH AREAS IMMEDIATELY IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED IN THE APPLICABLE EROSION AND SEDIMENT POLLUTION CONTROL PLAN.

GENERAL PROVISIONS:

- A WRITTEN REPORT DOCUMENTING EACH INSPECTION SHALL BE RETAINED BY THE DESIGNEE, INCLUDING DATES OF INSPECTION, DATES OF REPAIR, LIST OF ITEMS INSPECTED, LIST OF ITEMS REPAIRED, LIST OF ITEMS REPLACED, COSTS OF REPLACED ITEMS, LIST OF MAINTENANCE TASKS PERFORMED, NAME AND ORGANIZATION OF THE PERSON CONDUCTING THE INSPECTION, AND THE CONTRACTOR(S) INFORMATION.
- THE OWNER SHALL COMPLETE A VISUAL INSPECTION OF THE FACILITIES AT A MINIMUM ONCE EVERY 12 MONTHS FOR THE FIRST FIVE YEAR AND ONCE EVERY THREE YEARS THEREAFTER OR DURING OR IMMEDIATELY AFTER THE CESSATION OF A MAJOR STORM EVENT.
- THE OWNER IS RESPONSIBLE TO SUBMIT A REPORT TO UPPER ALLEN TOWNSHIP WITHIN ONE MONTH FOLLOWING COMPLETION OF AN INSPECTION. THE REPORT WILL PRESENT DOCUMENTATION REGARDING THE CONDITION OF BMPs, AND RECOMMEND ANY NECESSARY REPAIRS. ANY NEEDED REPAIRS SHALL COMMENCE WITHIN 60 DAYS OF THE REPORT ISSUANCE DATE.
- FOR ANY STRUCTURAL FACILITY (PIPE, INLET, MANHOLE), IT MUST BE REPAIRED OR REPLACED IF DAMAGED MORE THAN SUPERFICIALLY, IN A WAY THAT IS A SAFETY HAZARD, IF STRUCTURALLY UNSOUND, OR IF NOT SUBSTANTIALLY PERFORMING AS IT IS INTENDED PER THE ORIGINAL DESIGN.
- THE OWNER SHALL IMMEDIATELY NOTIFY UPPER ALLEN TOWNSHIP PRIOR TO INITIATING ANY "MAJOR" REPAIR ACTIVITIES (SUCH REPAIRS THAT MAY BE REQUIRED AS A RESULT OF SETTLEMENT, SINKHOLES, SEEPS, STRUCTURAL CRACKING, FOUNDATION MOVEMENT). ALL "MAJOR" REPAIRS SHALL BE CONDUCTED UNDER THE DIRECTION AND SUPERVISION OF A QUALIFIED ENGINEER, GEOLOGIST, AND/OR HYDROGEOLOGIST.
- ALL IMPERVIOUS SURFACES SHALL BE MAINTAINED CLEAN OF OIL, FUEL OR OTHER TOXIC SPILLS, IN ACCORDANCE WITH STATE, FEDERAL OR LOCAL REGULATIONS.
- UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY CONSERVATION DISTRICT, AND/OR PA DEP SHALL HAVE THE RIGHT TO:
  - a. INSPECT THE FACILITIES AT ANY TIME;
  - b. REQUIRE THE OWNER(S) TO TAKE CORRECTIVE MEASURES, AND ASSIGN THE OWNER(S) REASONABLE TIME PERIODS FOR ANY NECESSARY ACTION; AND
  - c. AUTHORIZE MAINTENANCE TO BE DONE BY THE TOWNSHIP OR AN AGENT OR CONTRACTOR OF THE TOWNSHIP, AND THE LENDING OF THE COST OF THE WORK AGAINST THE PROPERTIES OF THE PRIVATE ENTITY RESPONSIBLE FOR THE MAINTENANCE.

NOTE: ALL AREAS PROPOSED FOR INFILTRATION BMP'S SHALL BE PROTECTED FROM SEDIMENTATION AND COMPACTION DURING THE CONSTRUCTION PHASE TO MAINTAIN THEIR MAXIMUM INFILTRATION CAPACITY.

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF \_\_\_\_\_

ON THIS, THE \_\_\_\_ DAY OF \_\_\_\_\_, 202\_\_\_\_, BEFORE ME, THE UNDERSIGNED, PERSONALLY APPEARED \_\_\_\_\_, BEING OWNER OF THE PROPERTY, WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT \_\_\_\_\_ IS THE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN THEREOF WAS MADE AT ITS DIRECTION, THAT IT ACKNOWLEDGES THE SAME TO BE ITS ACT AND PLAN AND DESIRES THE SAME TO BE RECORDED, AND THAT ALL STREETS AND OTHER PROPERTY IDENTIFIED AS PROPOSED PUBLIC PROPERTY (EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION") ARE HEREBY DEDICATED TO THE PUBLIC USE.

\_\_\_\_\_  
\* \_\_\_\_\_

\_\_\_\_\_  
\*\* \_\_\_\_\_

\_\_\_\_\_  
\* SIGNATURE OF THE INDIVIDUAL MY COMMISSION EXPIRES \_\_\_\_\_  
\*\* SIGNATURE AND SEAL OF THE NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ACKNOWLEDGE DEEDS

I, JOHN K. MURPHY, P.E., P.L.S., HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR, OR REGISTERED ENGINEER IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA; THAT THIS PLAN CORRECTLY REPRESENTS A SURVEY IN AREA OF DEVELOPMENT COMPLETED BY ME ON FEB - MARCH 2020; THAT ALL THE MONUMENTS SHOWN THEREON ACTUALLY EXIST; AND THAT THEIR LOCATION, SIZE, TYPE AND MATERIAL ARE ACCURATELY SHOWN.

I, JOHN K. MURPHY, P.E., P.L.S. ON \_\_\_\_\_, 20\_\_\_\_, HAVE REVIEWED AND HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE UPPER ALLEN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE, AND THAT ACCORDING TO GEOLOGIC MAPPING, THIS SITE IS UNDERLAIN BY KARST FEATURES. I HEREBY CERTIFY THIS PLAN TO BE CORRECT AS SHOWN, AND THAT ALL ELEMENTS OF THE PLAN ARE IN CONFORMITY WITH TOWNSHIP CODE AND ANY APPLICABLE STATE REGULATIONS.

CONDITIONALLY APPROVED BY THE BOARD OF COMMISSIONERS OF UPPER ALLEN TOWNSHIP THIS \_\_\_\_ 21\_\_\_\_ DAY OF, \_\_\_\_\_ JULY\_\_\_\_, 2021.

CHAIRMAN \_\_\_\_\_

SECRETARY \_\_\_\_\_

THE CONDITIONS OF APPROVAL WERE SATISFIED

THIS \_\_\_\_\_ DAY OF, \_\_\_\_\_, 20\_\_\_\_.

THIS PLAN RECOMMENDED FOR APPROVAL BY THE UPPER ALLEN TOWNSHIP PLANNING COMMISSION

THIS \_\_\_\_ 24\_\_\_\_ DAY OF, \_\_\_\_\_ MAY\_\_\_\_, 2021.

CHAIRMAN \_\_\_\_\_

SECRETARY \_\_\_\_\_

STORMWATER MANAGEMENT PLAN CERTIFICATE:

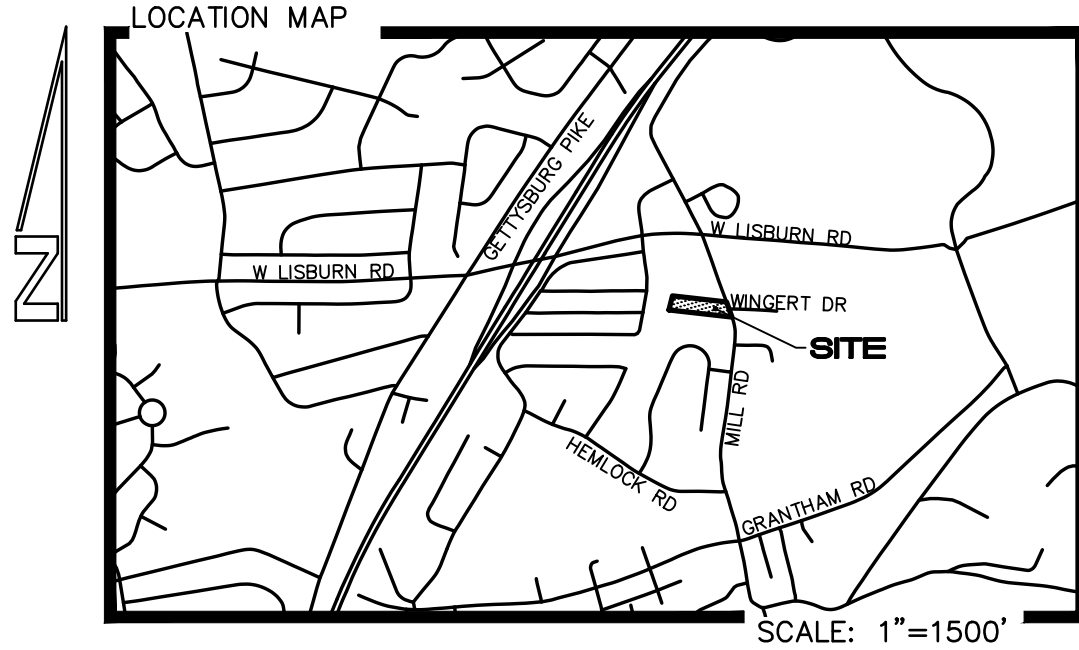
IT IS HEREBY CERTIFIED THAT THE STORMWATER MANAGEMENT FACILITIES AND BMP'S ARE PERMANENT FIXTURES AND CANNOT BE ALTERED OR REMOVED UNLESS A REVISED PLAN IS APPROVED BY UPPER ALLEN TOWNSHIP.

APPLICANT/OWNER \_\_\_\_\_

THIS PLAN REVIEWED BY THE TOWNSHIP ENGINEER OF UPPER ALLEN TOWNSHIP

THIS \_\_\_\_\_ DAY OF, \_\_\_\_\_, 20\_\_\_\_.

ENGINEER \_\_\_\_\_



INDEX OF DRAWINGS :

1. • COVER SHEET
2. • EXISTING FEATURES
3. • SITE PLAN
4. • GRADING/UTILITY PLAN
5. • EASEMENT PLAN
6. • LANDSCAPE PLAN
7. • EROSION CONTROL PLAN
8. • PROFILES
9. • STORMWATER, SITE & SANITARY DETAILS
10. • EROSION CONTROL DETAILS

DATE :

APRIL 30, 2021

REVISED :

JUNE 16, 2021  
JULY 23, 2021  
SEPTEMBER 14, 2021

ZONING REQUIREMENTS:

SITE IS ZONED R-2: MEDIUM DENSITY RESIDENTIAL

FOR SINGLE-FAMILY ATTACHED (TOWNHOUSE) USE:  
MINIMUM LOT AREA: 2,000 SF / UNIT (PUBLIC WATER & SEWER)  
MINIMUM FRONT YARD: 25 FEET  
MINIMUM SIDE YARD: 10 FEET  
MINIMUM REAR YARD: 15 FEET  
MINIMUM STREET FRONTAGE: 20' INTERIOR, 35' EXTERIOR UNIT  
MAXIMUM BUILDING COVERAGE: 30%  
MAXIMUM IMPERVIOUS COVERAGE: 45%  
MAXIMUM PRINCIPAL BUILDING HEIGHT: 35 FEET

SITE DATA:

1. APPLICANT: NEIDIG, INC. C/O RHONDA NEIDIG 209 FAIRWAY DRIVE MECHANICSBURG, PA 17055 PHONE: (717) 697-0269  
OWNER: RM DIGGER LLC 2520 MILL ROAD MECHANICSBURG, PA 17-55 SOURCE OF TITLE: INSTRUMENT # 201905061

2. TOTAL SITE AREA: 1.116 ACRES (48,625.05 SF)
3. SITE IS ZONED R-2: MEDIUM-DENSITY RESIDENTIAL (SEE SHEET 2 FOR ADJACENT ZONING)
4. THIS SITE IS IDENTIFIED BY THE CUMBERLAND COUNTY TAX ASSESSMENT OFFICE AS PARCELS 42-30-2110-010
5. CURRENT SITE ADDRESS IS 2520 MILL ROAD, MECHANICSBURG, PA 17055
6. EXISTING BUILDING COVERAGE: 0% (0 ACRES)
7. EXISTING IMPERVIOUS COVERAGE: 0.45% (0.005 ACRES)
8. PROPOSED BUILDING COVERAGE: 10.9% (5,232 SF)
9. PROPOSED IMPERVIOUS COVERAGE: 34.4% (16,728 SF)
10. PROPOSED LANDSCAPED AREA: 65.6%
11. PROPOSED BUILDING HEIGHT: 35 FEET
12. REQUIRED AND PROPOSED OFF-STREET PARKING:

2 SPACES PER UNIT (6 x 2 = 12 SPACES)  
+ 1 SPACE/4 UNITS FOR GUESTS (6 / 4 = 1.50 ; 2 SPACES)  
=14 SPACES REQUIRED

EACH UNIT WILL HAVE:  
1 ONE-CAR GARAGE = 6 SPACES  
1 SPACE IN DRIVEWAY TO UNIT = 6 SPACES  
1 ADJACENT SPACE FOR PARKING = 6 SPACES  
PLUS 6 ADDITIONAL PARKING STALLS =24 SPACES PROVIDED

8. EXISTING WATER SUPPLY: PUBLIC (SUEZ WATER)

9. EXISTING SEWAGE DISPOSAL: PUBLIC (UPPER ALLEN TOWNSHIP)

THE FOLLOWING WAIVER IS REQUESTED FROM THE UPPER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:

ORDINANCE SECTION	DESCRIPTION	DATE OF WAIVER/ MODIFICATION REQUEST	BOARD OF COMMISSIONERS APPROVAL DATE
220-5.2.D(2)c	MINIMUM LENGTH OF VERTICAL CURVE SHALL BE 100 FEET	6/16/2021	7/21/2021

THE FOLLOWING DEFERRAL IS REQUESTED FROM THE UPPER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:

ORDINANCE SECTION	DESCRIPTION	DATE OF WAIVER/ MODIFICATION REQUEST	BOARD OF COMMISSIONERS APPROVAL DATE
220-5.3.B	REQUIRING SIDEWALKS ALONG MILL ROAD	7/21/2021	7/21/2021

UTILITY LISTING FOR UPPER ALLEN TOWNSHIP:

- CABLE COMCAST CABLE COMMUNICATIONS INC. 4601 SMITH ST. HARRISBURG, PA 17109 TELEPHONE: 717-651-1915
- SANITARY SEWER TOWNSHIP OF UPPER ALLEN 100 GETTYSBURG PIKE MECHANICSBURG, PA 17055 TELEPHONE: 717-766-0756
- ELECTRIC PPL ELECTRIC UTILITIES 642 S 20TH ST. HARRISBURG, PA 17104-2222 TELEPHONE: 1-570-348-1509
- TELEPHONE VERIZON PENNSYLVANIA LLC 15 E MONTGOMERY AVE PITTSBURGH, PA 15212
- GAS UGI UTILITIES INC. 1301 AIP DR. MIDDLETOWN, PA 17057-5987 TELEPHONE: 717-930-0223
- WATER SERVICE SUEZ WATER 6310 ALLENTOWN BOULEVARD SUITE 104 HARRISBURG, PA 17112 TELEPHONE: (717) 564-3664



PA ONE-CALL FOR THIS PROJECT:  
SERIAL NUMBER: 20172983072

APPLICANT/DEVELOPER

NEIDIG, INC.  
209 FAIRWAY DRIVE  
MECHANICSBURG, PA 17055  
PHONE: (717) 697-0269

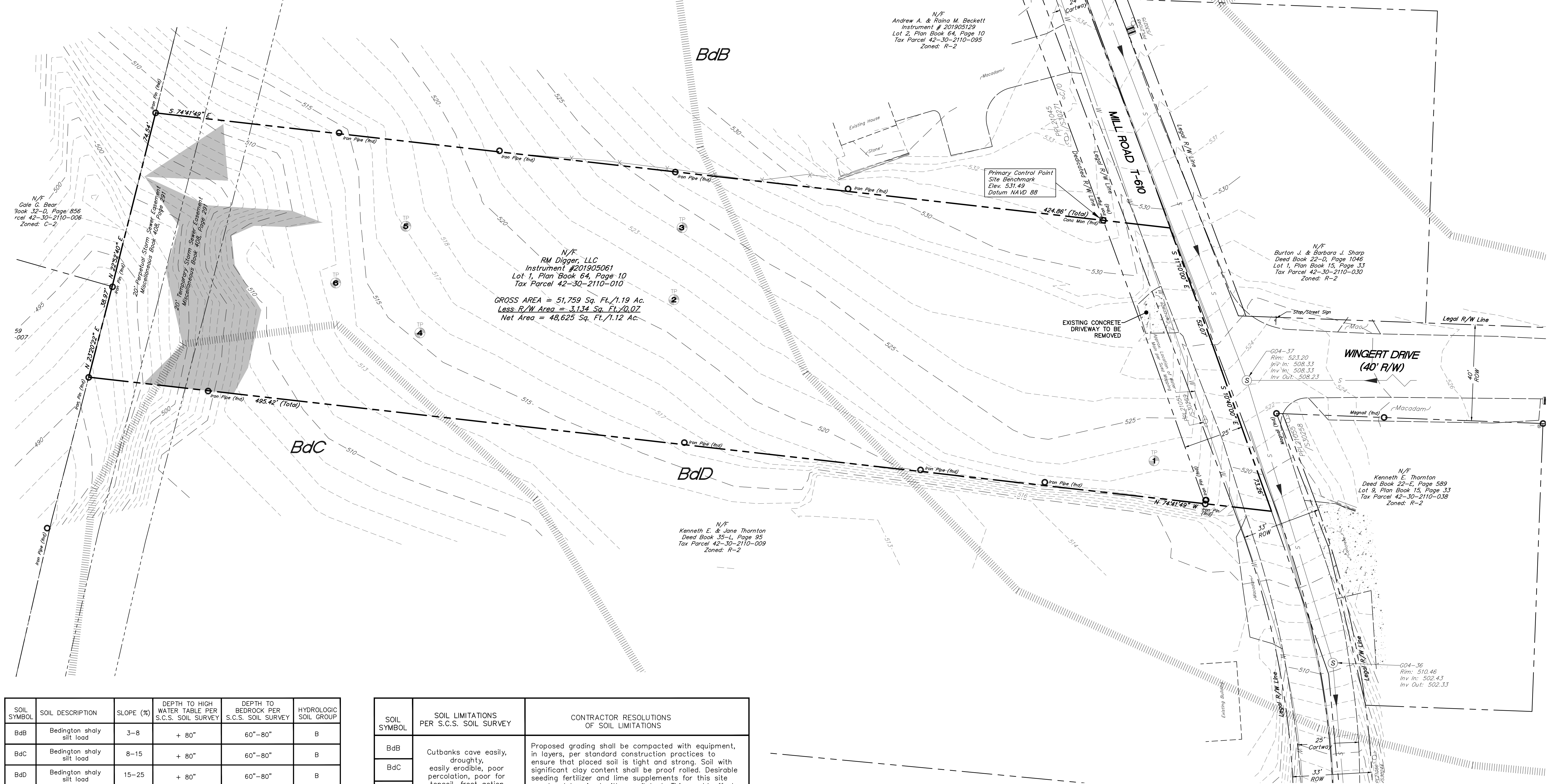


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115 LIMEKILN RD. P.O. BOX 'G'  
NEW CUMBERLAND, PA 17070  
PHONE: (717) 770 - 2500  
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WWW.ALPHACEI.COM

LEGEND

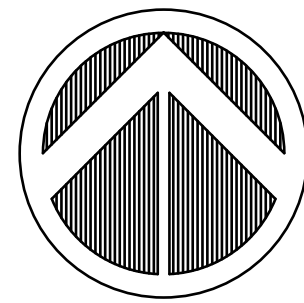
- Existing Property Line
- Existing Easement
- Existing 5' Contour
- Existing 1' Contour
- Existing Curb
- Existing Edge Of Pav
- Existing Utility Pole
- Existing Overhead Utility Line
- Existing Property Corners
- Existing Storm Sewer Line
- Existing Sanitary Sewer Line
- Existing Water Line
- Soil Boundary
- Existing On-Site Slopes over 25% Slopes
- Soil Infiltration Test Pit Locations

NOTE:  
ALL UNDERGROUND UTILITIES ARE APPROXIMATE  
AND MUST BE FIELD VERIFIED BY CONTRACTOR  
PRIOR TO COMMENCING EARTH MOVING ACTIVITIES.



SOIL SYMBOL	SOIL DESCRIPTION	SLOPE (%)	DEPTH TO HIGH WATER TABLE PER S.C.S. SOIL SURVEY	DEPTH TO BEDROCK PER S.C.S. SOIL SURVEY	HYDROLOGIC SOIL GROUP
BdB	Bedington shaly silt loam	3-8	+ 80"	60"-80"	B
BdC	Bedington shaly silt loam	8-15	+ 80"	60"-80"	B
BdD	Bedington shaly silt loam	15-25	+ 80"	60"-80"	B

SOIL SYMBOL	SOIL LIMITATIONS PER S.C.S. SOIL SURVEY	CONTRACTOR RESOLUTIONS OF SOIL LIMITATIONS
BdB	Cutbanks cave easily, droughty, easily erodible, poor percolation, poor for topsoil, frost action	Proposed grading shall be compacted with equipment, in layers, per standard construction practices to ensure that placed soil is tight and strong. Soil with significant clay content shall be proof rolled. Desirable seeding fertilizer and lime supplements for this site can be determined with a soil test. This would offset the possible low Ph. Slopes shall be re-graded, then stabilized with topsoil, seed and mulch, and matted if steep. Topsoil can be imported from other sources, as it is readily available in the area. In general, there are no unusual site characteristics here that are unlike those found elsewhere in the region where similar soils are present. No special construction methods or procedures seem necessary.
BdC		
BdD		



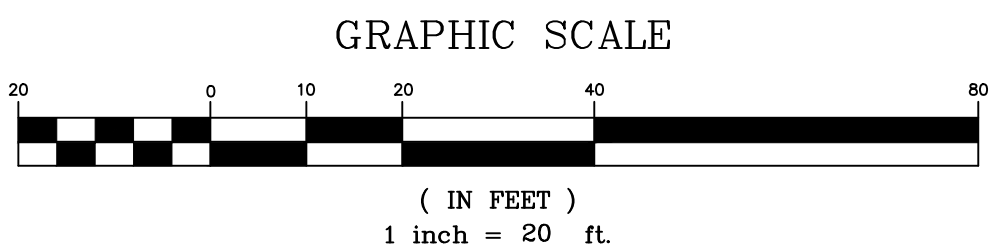
				DESIGN : MH
				DRAWN : MH
				CHECKED : RAC
				DATE : 04/30/2021
△	7/23/21	REVISED PER TWP COMMENTS	GLM	
△	6/16/21	REVISED PER TWP & CO COMMENTS	SRR	
NO.	DATE	DESCRIPTION	BY	

PLANNING ENGINEERING & SURVEYING  
115 LIMEKILN RD. P.O. BOX 13  
NEW CUMBERLAND, PA 17070  
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**ALPHA**  
ALPHA CONSULTING ENGINEERS, INC.

PRELIMINARY / FINAL LAND DEVELOPMENT PLAN  
EXISTING FEATURES PLAN  
**2520 MILL ROAD**  
UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

PROJECT NO. 320014  
SURVEY BOOK :  
SCALE : 1" = 20'  
DWG 320014-01  
FILE 320014-01.dwg  
SHEET 2 of 10









San Diego River

San Diego Bay

N/F  
Gale C. Bear  
Deed Book 32-0, Page 856  
Tax Parcel 42-30-2110-006  
Zoned: C-2

N/F  
Brandon S. Merritts  
Instrument # 201930259  
Tax Parcel 42-30-2110-007  
Zoned: C-2

500

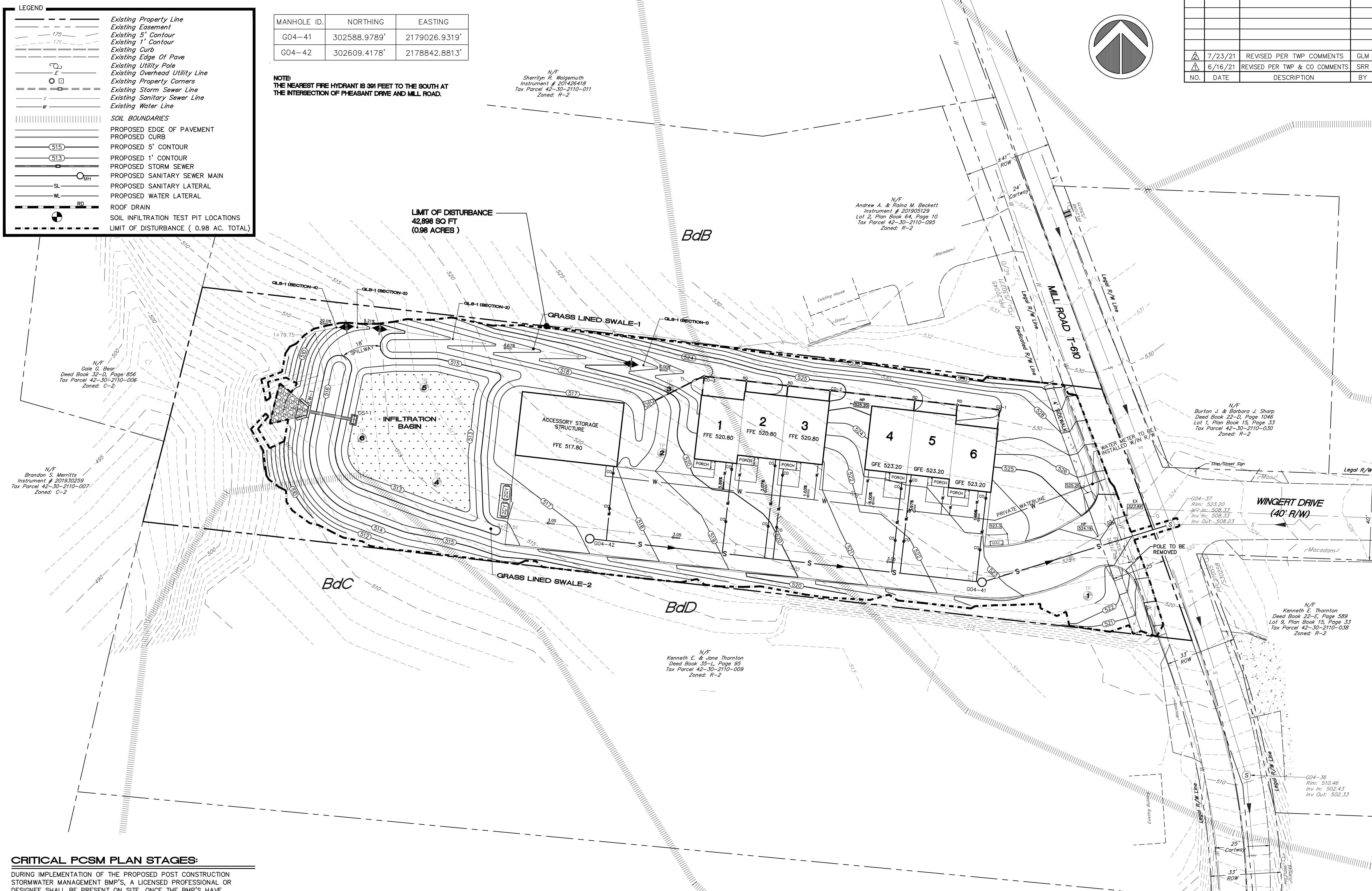
495

490

500

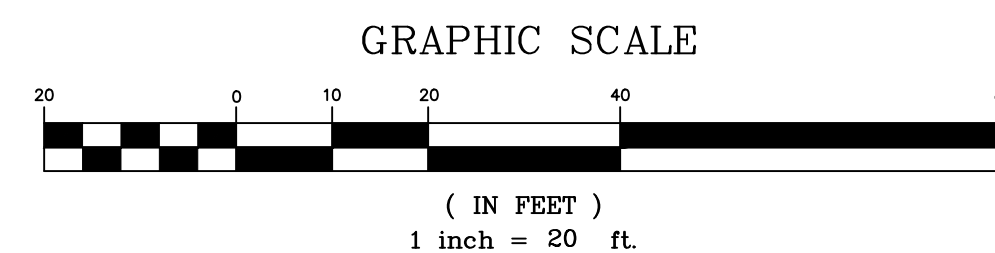
**NOTE:**

N/F  
Sherrilyn R. Wolgemuth  
Instrument # 201426418  
Tax Parcel 42-30-2110-011  
Zoned: R-2



DURING IMPLEMENTATION OF THE PROPOSED POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S, A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON SITE. ONCE THE BMP'S HAVE BEEN CONSTRUCTED AND STABILIZED, AT NO TIME SHALL CONSTRUCTION VEHICLES BE PERMITTED ACCESS IN THESE AREAS UNLESS AUTHORIZED BY A LICENSED PROFESSIONAL OR DESIGNEE.

CONSTRUCTION OF INFILTRATION BASIN



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UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

PROJECT NO. 320014
SURVEY BOOK :
SCALE : 1" = 20'
DWG NO. \2020\320014.dwg \320014\ FILE dwg\Plans\Final\04-GRADE PLAN
SHEET 4 of 10

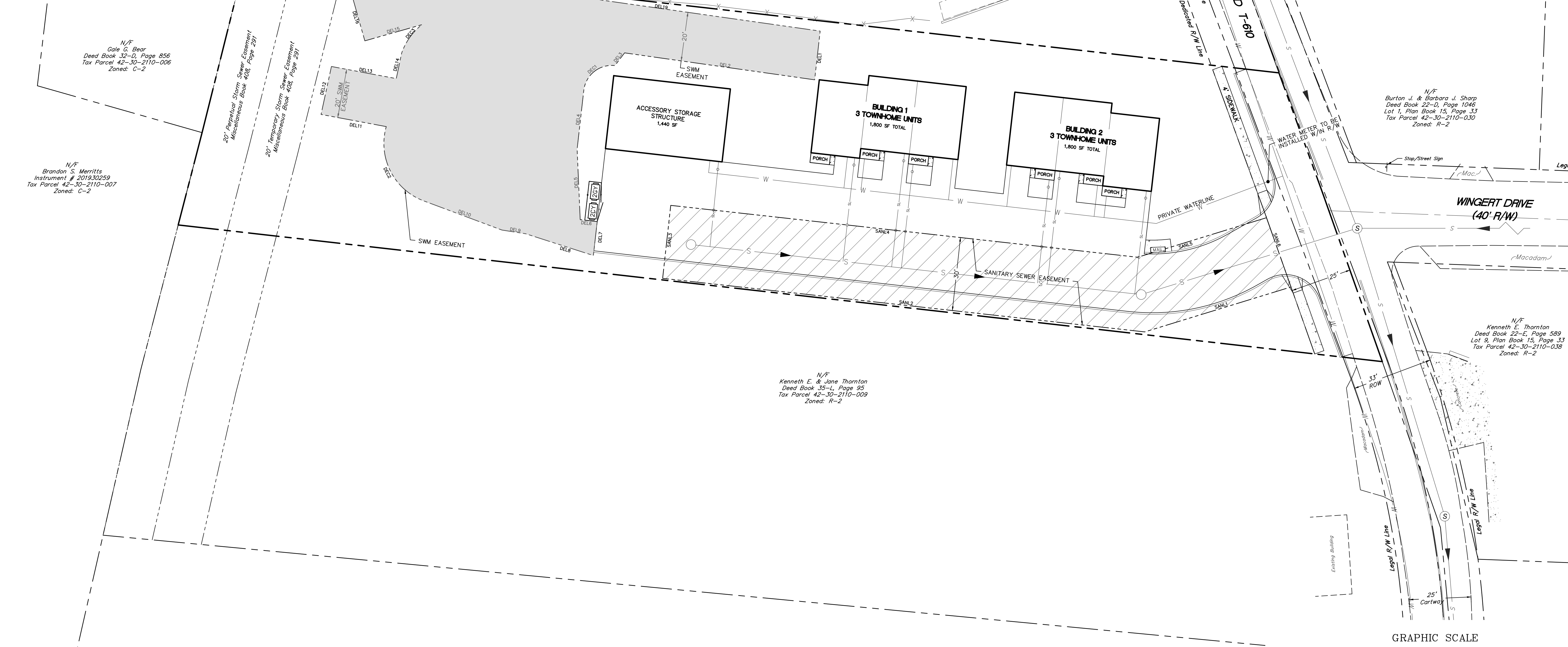


LEGEND	
	Existing Property Line
	Existing Edge Of Pav
	Existing Curb
	PROPOSED SETBACK LINE
	PROPOSED EDGE OF PAVEMENT
	PROPOSED CURB
	PROPOSED SIDEWALK
	PROPOSED STORM DRAINAGE EASEMENT
	PROPOSED SANITARY SEWER EASEMENT

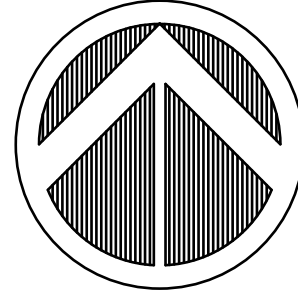
LINE	LENGTH	BEARING
DEL1	20.00'	S15°18'11"W
DEL2	78.46'	N73°06'30"W
DEL3	6.54'	S46°10'59"W
DEL4	24.21'	S15°18'11"W
DEL5	28.82'	S6°19'09"W
DEL6	7.00'	S74°41'49"E
DEL7	13.93'	S15°18'11"W
DEL8	29.02'	N63°20'36"W
DEL9	9.84'	N72°19'21"W
DEL10	34.14'	N69°43'21"W
DEL11	27.12'	N70°36'02"W
DEL12	20.00'	N21°03'29"E
DEL13	26.98'	S70°36'02"E
DEL14	10.65'	N20°46'43"E
DEL15	24.27'	S83°02'14"W
DEL16	20.00'	N6°57'46"W
DEL17	25.43'	N83°02'14"E
DEL18	16.76'	S77°59'25"E
DEL19	151.85'	S73°06'40"E

CURVE	LENGTH	RADIUS	BEARING	CHORD
DEC1	18.06'	11.50'	S60°18'11"W	16.26'
DEC2	37.36'	25.00'	N17°54'30"W	33.98'
DEC3	14.50'	25.62'	N44°19'23"E	14.31'

LINE	LENGTH	BEARING
SANL1	62.57'	N81°46'21"E
SANL2	198.29'	S74°49'56"E
SANL3	30.00'	S15°10'04"W
SANL4	192.08'	N74°49'56"W
SANL5	55.08'	S81°46'21"W
SANL6	30.03'	N10°40'00"W

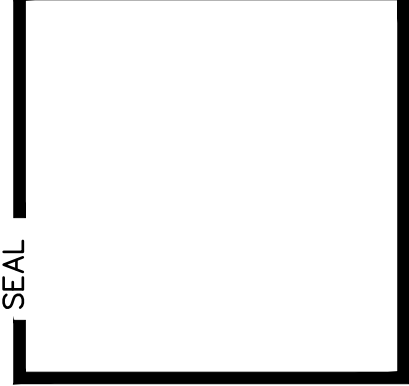
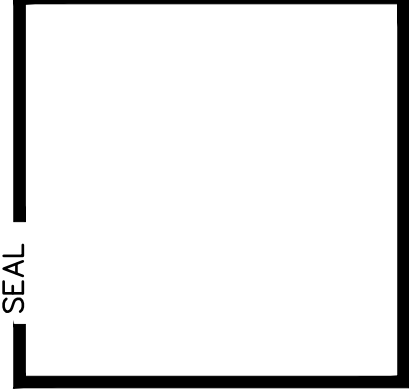


				DESIGN :	MH
				DRAWN :	MH
				CHECKED :	RAC
				DATE :	04/30/2021
	7/23/21	REVISED PER TWP COMMENTS	GLM		
	6/16/21	REVISED PER TWP & CO COMMENTS	SRR		
NO.	DATE	DESCRIPTION	BY		



PLANNING ENGINEERING & SURVEYING  
115 LIMEKILN RD. P.O. BOX 13  
NEW CUMBERLAND, PA 17070  
PHONE: (717) 770 - 2500  
FAX: (717) 770 - 2400  
WWW.ALPHACON.COM

**ALPHA**  
ALPHA CONSULTING ENGINEERS, INC.



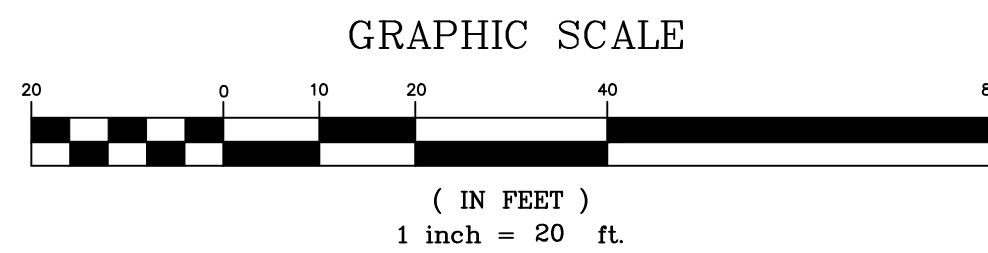
PRELIMINARY / FINAL LAND DEVELOPMENT PLAN

EASEMENT PLAN

2520 MILL ROAD

UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

PROJECT NO.	320014
SURVEY BOOK :	
SCALE :	1" = 20'
DWG 31/2020/320014.dwg 320014	
FILE 31/2020/320014.dwg 320014	
SHEET	5 of 10



( IN FEET )  
1 inch = 20 ft

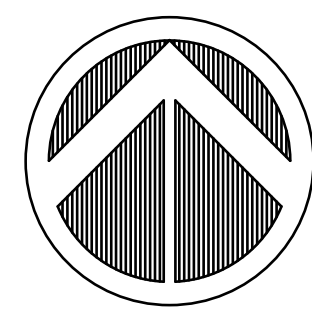


LEGEND

Existing Property Line  
Existing Easement  
Existing 5' Contour  
Existing 1' Contour  
Existing Curb  
Existing Edge Of Pavement  
Existing Utility Pole  
Existing Overhead Utility Line  
Existing Property Corners  
Existing Storm Sewer Line  
Existing Sanitary Sewer Line  
Existing Water Line

SOIL BOUNDARIES

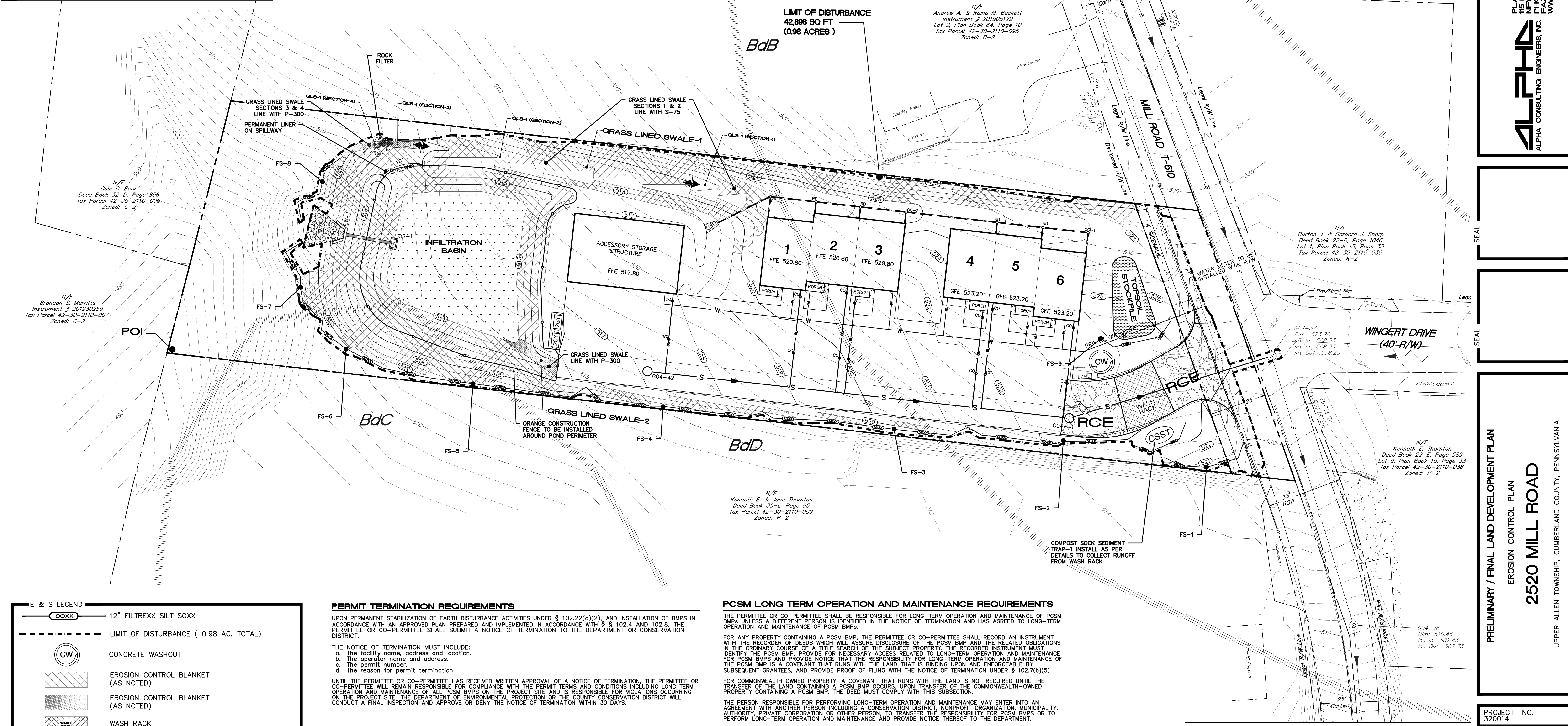
PROPOSED EDGE OF PAVEMENT  
PROPOSED CURB  
PROPOSED 5' CONTOUR  
PROPOSED 1' CONTOUR  
PROPOSED STORM SEWER  
PROPOSED SANITARY SEWER MAIN  
PROPOSED SANITARY LATERAL  
PROPOSED WATER LATERAL  
ROOF DRAIN  
SOIL INFILTRATION TEST PIT LOCATIONS  
LIMIT OF DISTURBANCE ( 0.98 AC. TOTAL)



				DESIGN :	MH
				DRAWN :	MH
				CHECKED :	RAC
				DATE :	04/30/2021
7/23/21	REVISED PER TWP COMMENTS	GLM			
6/16/21	REVISED PER TWP & CO COMMENTS	SRR			
NO.	DATE	DESCRIPTION	BY		

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E & S LEGEND

12" FILTREXX SILT SOXX  
LIMIT OF DISTURBANCE ( 0.98 AC. TOTAL)  
CONCRETE WASHOUT  
EROSION CONTROL BLANKET (AS NOTED)  
EROSION CONTROL BLANKET (AS NOTED)  
WASH RACK  
ROCK CONSTRUCTION ENTRANCE  
ROCK FILTER

**PERMIT TERMINATION REQUIREMENTS**

UPON PERMANENT STABILIZATION OF EARTH DISTURBANCE ACTIVITIES UNDER § 102.22(a)(2), AND INSTALLATION OF BMPs IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH § 102.4 AND 102.8, THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

- The facility name, address and location.
- The operator name and address.
- The permit number.
- The reason for permit termination.

UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPs ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE COUNTY CONSERVATION DISTRICT WILL CONDUCT A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION WITHIN 30 DAYS.

**PCSM LONG TERM OPERATION AND MAINTENANCE REQUIREMENTS**

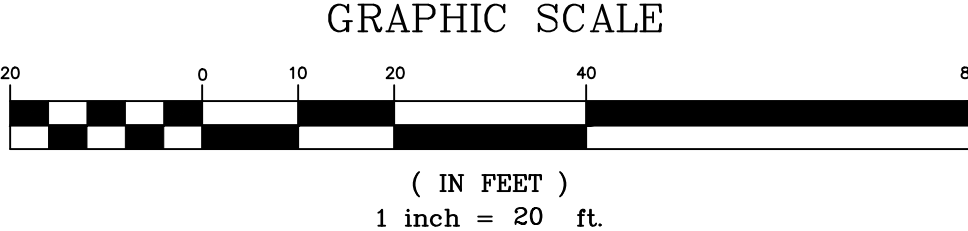
THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs.

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPs AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(b)(5).

FOR COMMONWEALTH OWNED PROPERTY, A COVENANT THAT RUNS WITH THE LAND IS NOT REQUIRED UNTIL THE TRANSFER OF THE LAND CONTAINING A PCSM BMP OCCURS. UPON TRANSFER OF THE COMMONWEALTH-OWNED PROPERTY CONTAINING A PCSM BMP, THE DEED MUST COMPLY WITH THIS SUBSECTION.

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPs OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs LOCATED ON THE PROPERTY.



PRELIMINARY / FINAL LAND DEVELOPMENT PLAN  
EROSION CONTROL PLAN  
**2520 MILL ROAD**  
UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

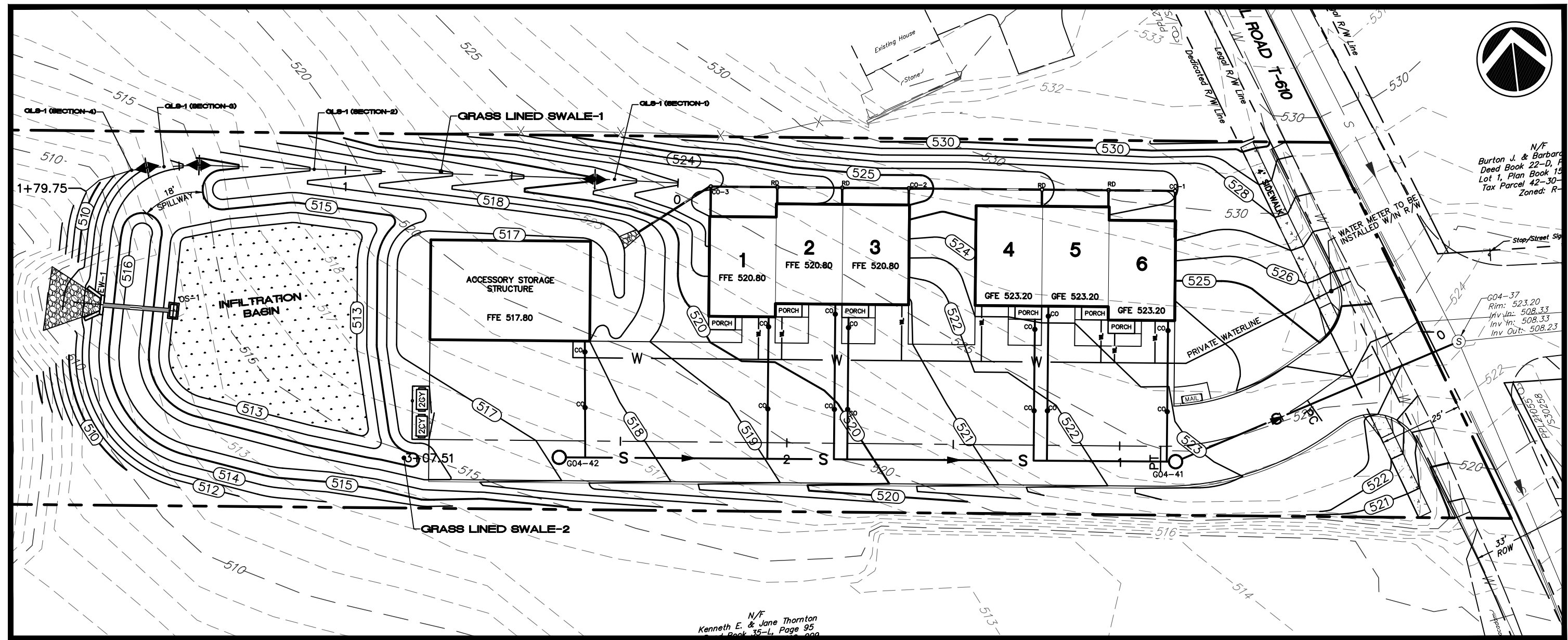
PROJECT NO.  
320014

SURVEY BOOK :

SCALE : 1" = 20'

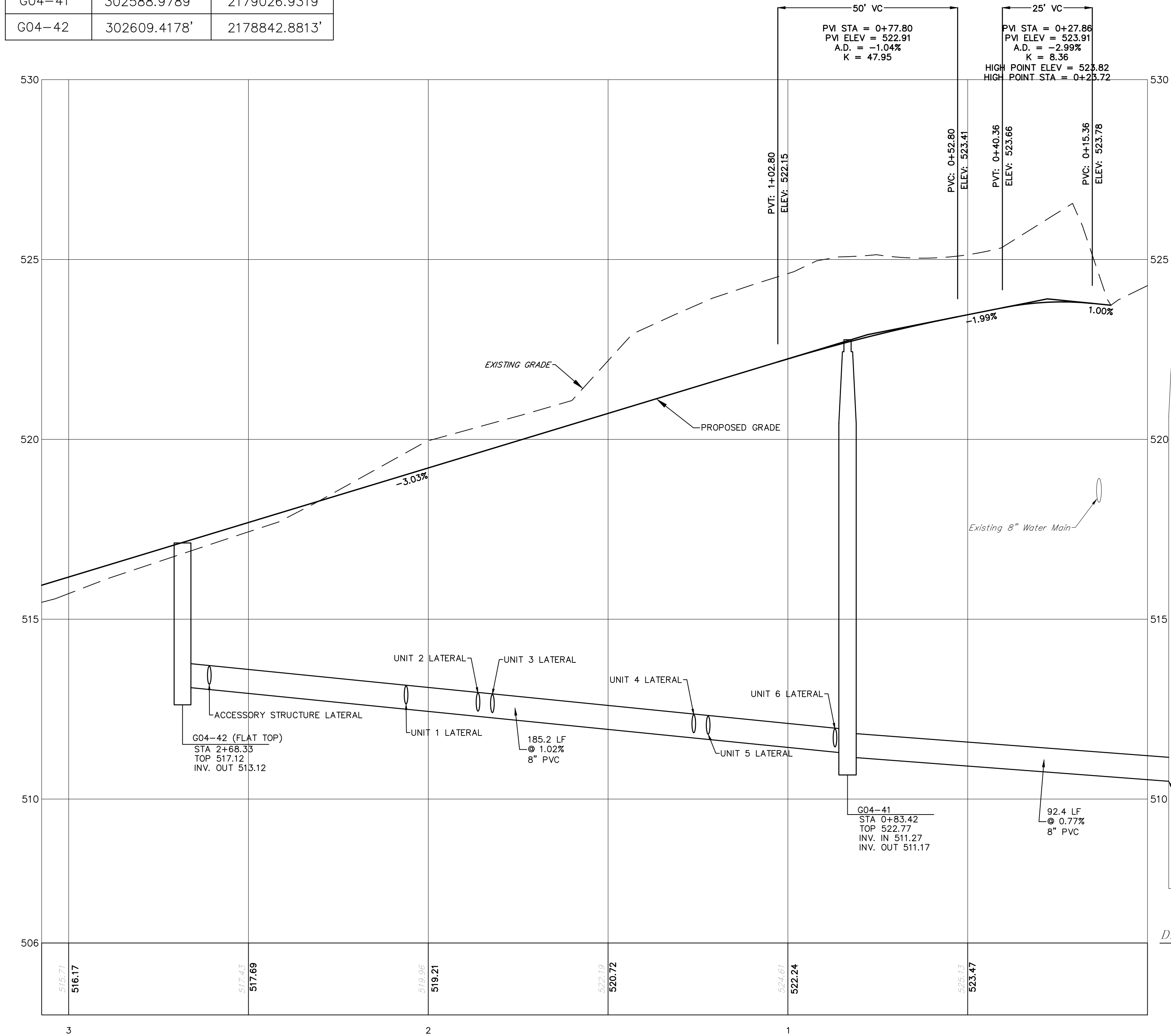
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FILE 499/Project/Draw/01-246.dwg

SHEET **7** of **10**



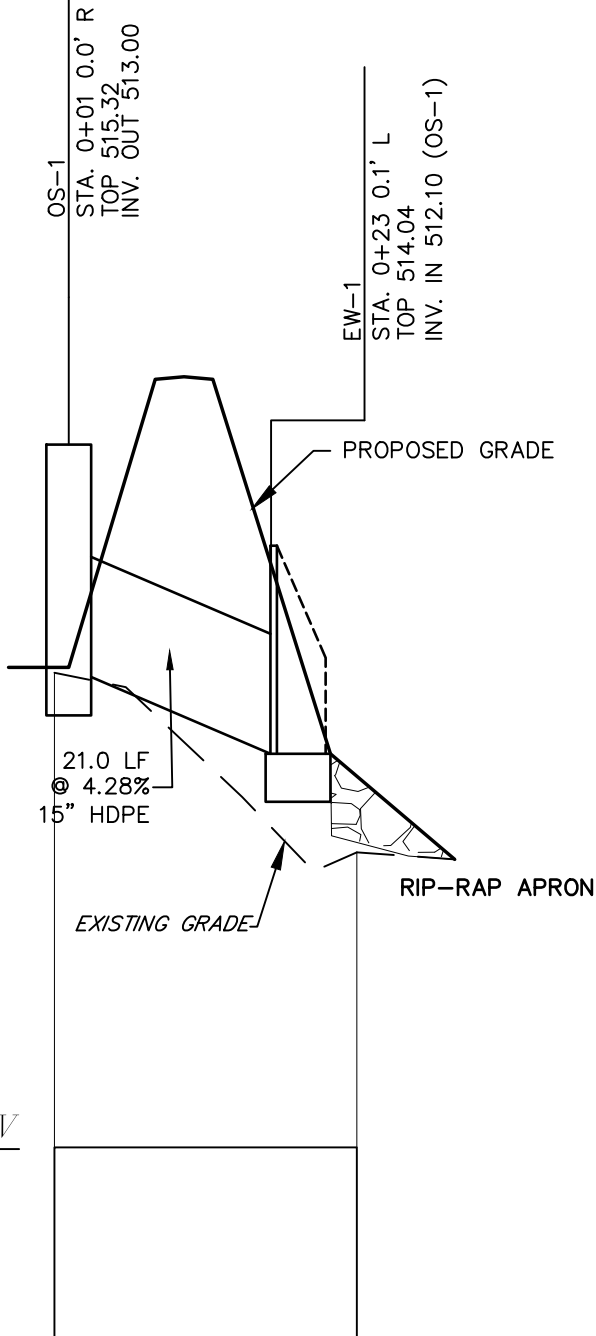
PLAN VIEW  
SCALE: 1:30

MANHOLE ID.	NORTHING	EASTING
G04-41	302588.9789'	2179026.9319'
G04-42	302609.4178'	2178842.8813'

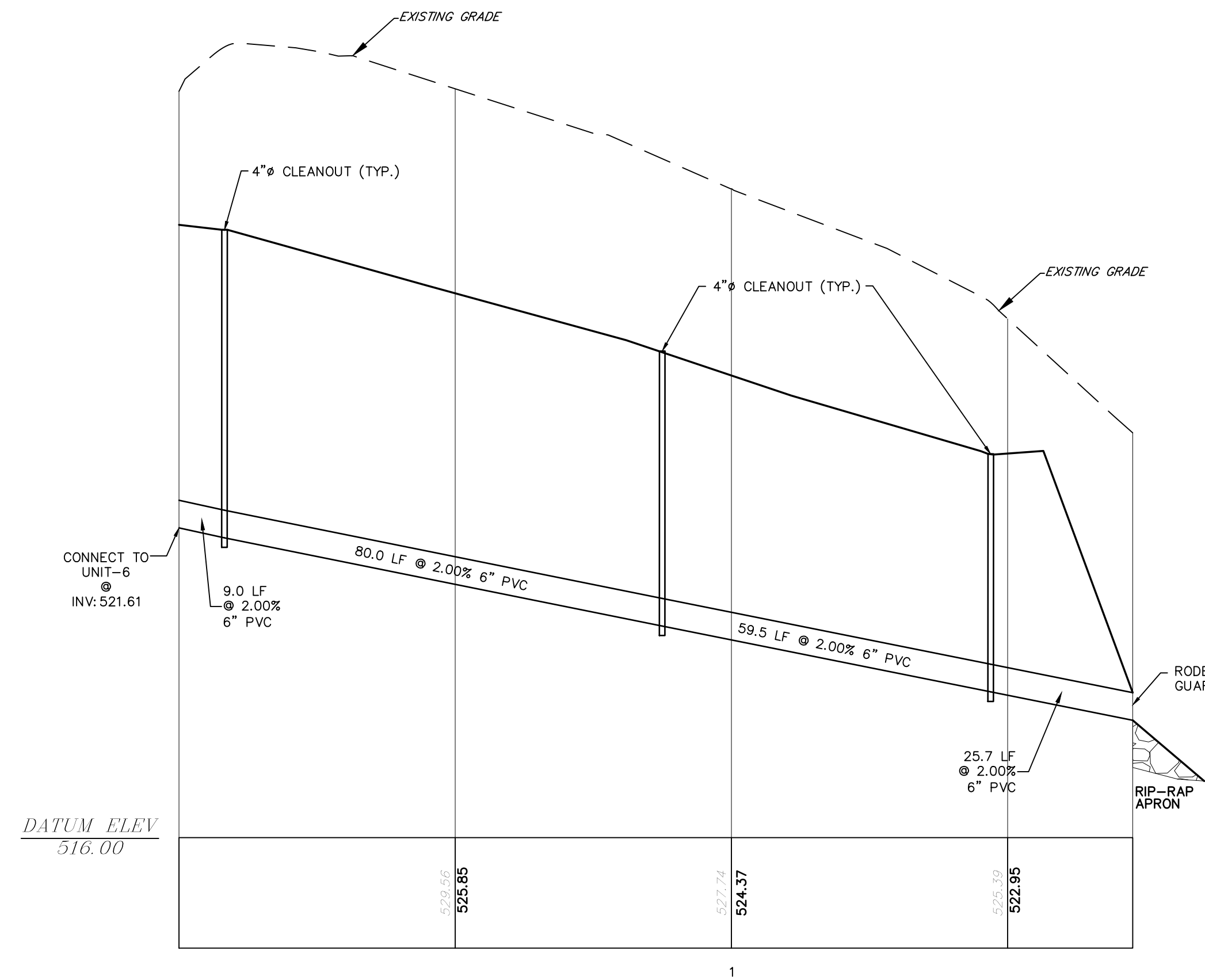


ACCESS DRIVEWAY PROFILE  
SCALE: H=20'  
V=2'

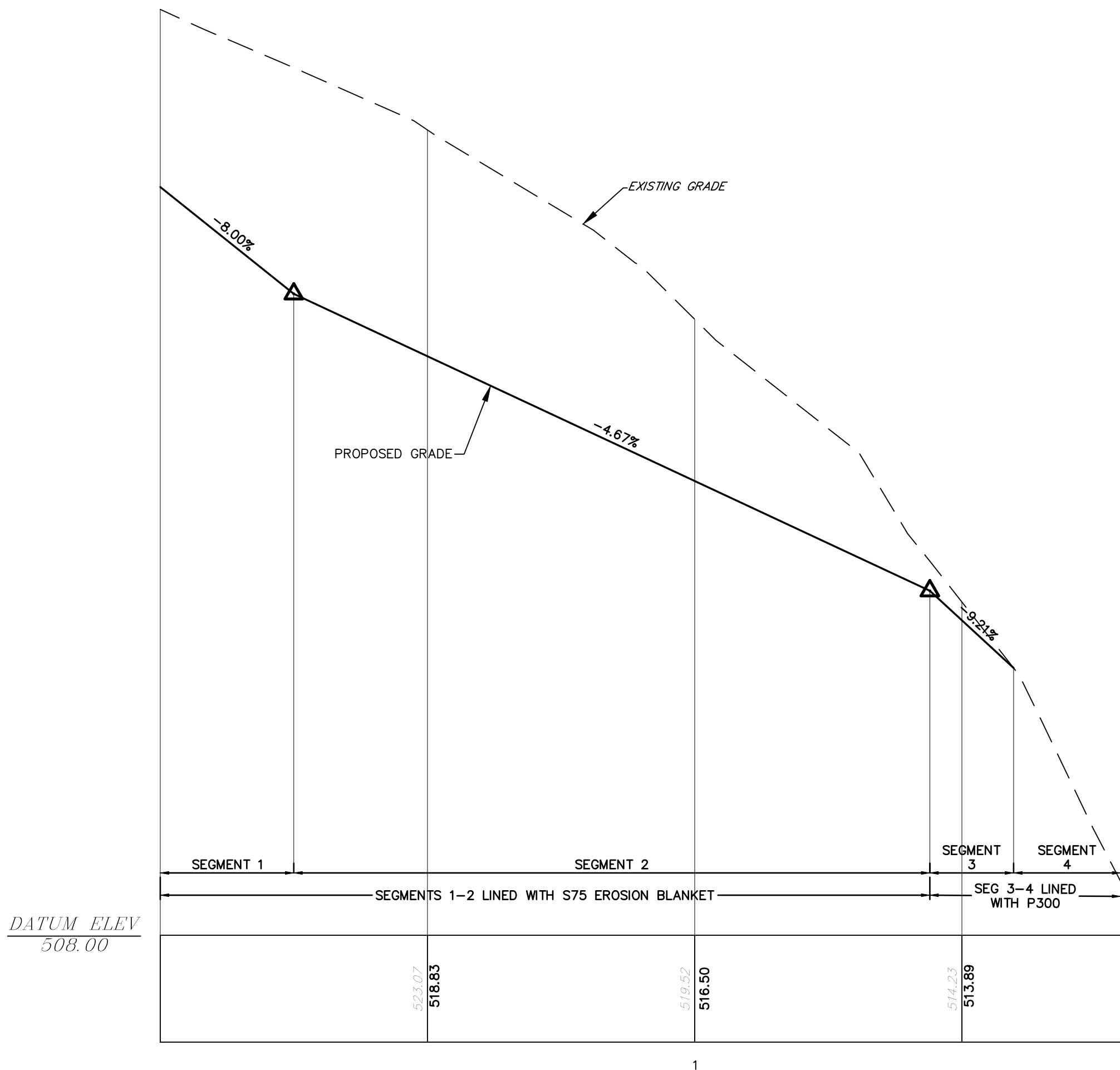
OS-1 TO EW-1 PROFILE  
SCALE: H=20'  
V=2'



SANITARY SEWER NOTES:  
• PIPE LENGTH SHOWN ON PROFILE REPRESENTS DISTANCE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. PIPE SLOPE SHOWN ON PROFILE IS CALCULATED BASED ON DISTANCE FROM INSIDE FACE OF MANHOLE TO INSIDE FACE OF MANHOLE.



ROOF DRAIN PROFILE  
SCALE: H=20'  
V=2'



GRASS LINED SWALE PROFILE  
SCALE: H=20'  
V=2'

				DESIGN :	MH
				DRAWN :	MH
				CHECKED :	RAC
				DATE :	04/30/2021
9/14/21	REVISD PER SEWER COMMENTS	SRR			
7/23/21	REVISD PER TWP COMMENTS	GLM			
6/16/21	REVISD PER TWP & CO COMMENTS	SRR			
NO.	DATE	DESCRIPTION	BY		

PLANNING ENGINEERING & SURVEYING  
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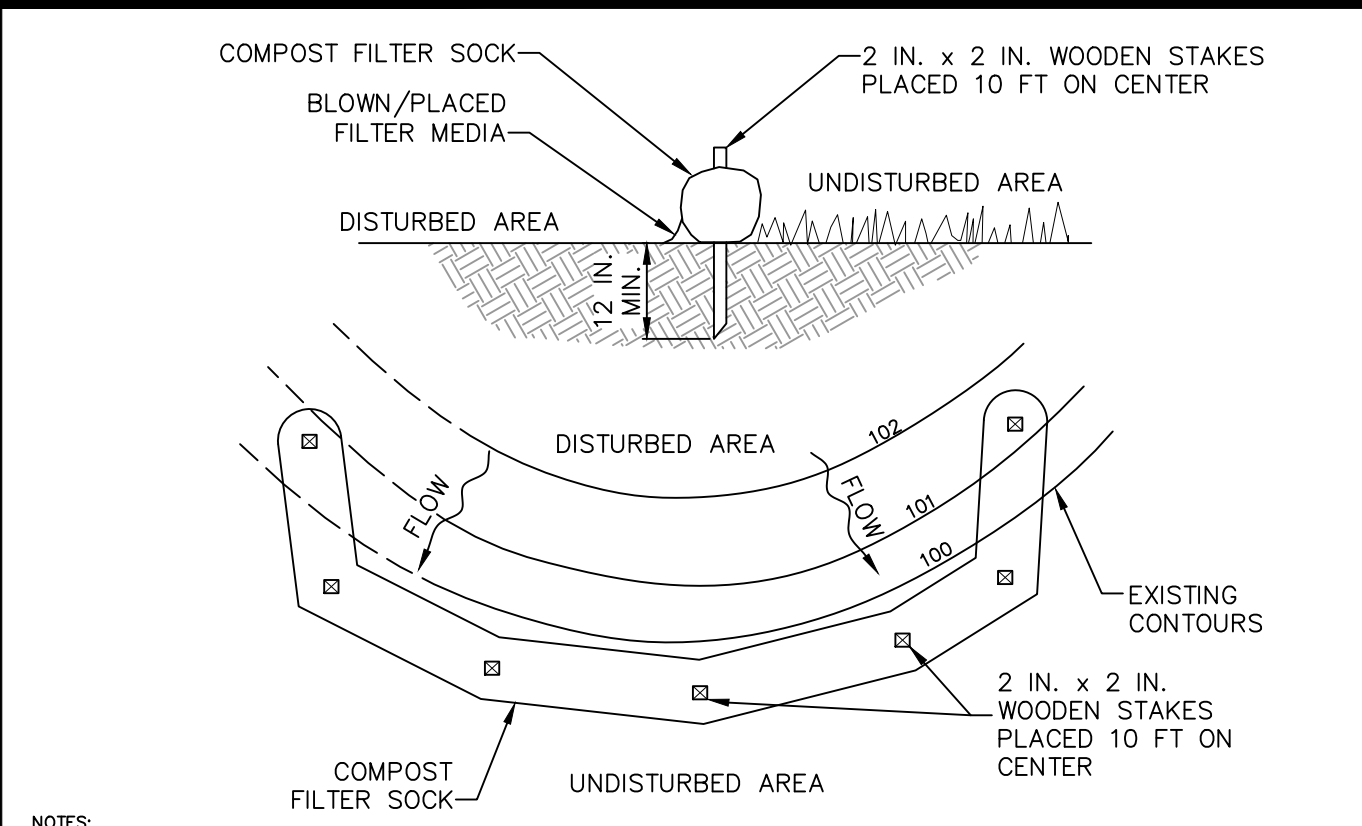
PRELIMINARY / FINAL LAND DEVELOPMENT PLAN  
PROFILES  
2520 MILL ROAD  
UPPER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

PROJECT NO.	320014
SURVEY BOOK :	
SCALE :	AS NOTED
DWG. 31/2/2021/320014.dwg/320014.dwg	
FILE: c:\p\2520 Mill Road\2520 Mill Road.dwg	
SHEET	8 of 10



SHEET 9 of 10





COMPOST FILTER SOCK SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SOCK LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR.

POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

WHERE SOCK CROSSES PAVEMENT, ANCHOR SOCK IN PLACE WITH A FILLED SANDBAG BUTON ON EACH SIDE OF THE SOCK, EVERY 30 FEET OF SOCK.

THE PHYSICAL PARAMETERS OF THE COMPOST SHOULD COMPLY WITH THE STANDARDS IN TABLE 4.2. THE STANDARDS CONTAINED IN THE PENNDOT PUBLICATION 408 ARE AN ACCEPTABLE ALTERNATIVE.

ORGANIC MATTER CONTENT	80% - 100% (dry weight basis)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

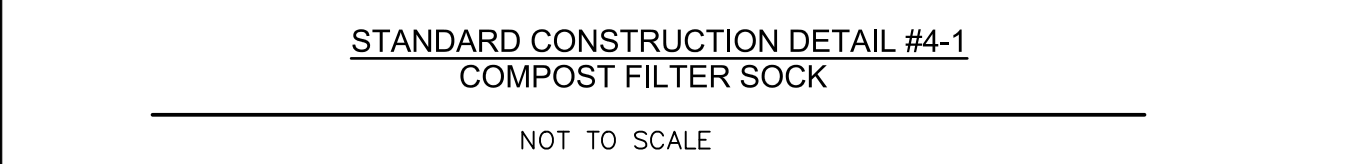


TABLE 4.1  
COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
MATERIAL CHARACTERISTICS	12"	12"	12"	12"	12"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH	26 PSI	26 PSI	44 PSI	202 PSI	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.	100% AT 1000 HR.	100% AT 1000 HR.	
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEAR
TWO-PLY SYSTEMS					
HOPE BIAXIAL NET					
CONTINUOUSLY WOUND					
FUSION-WELDED JUNCTURES					
COMPOSITE POLYPROPYLENE FABRIC					
(WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)					
OUTER FILTRATION MESH					
3/16" MAX. APERTURE SIZE					

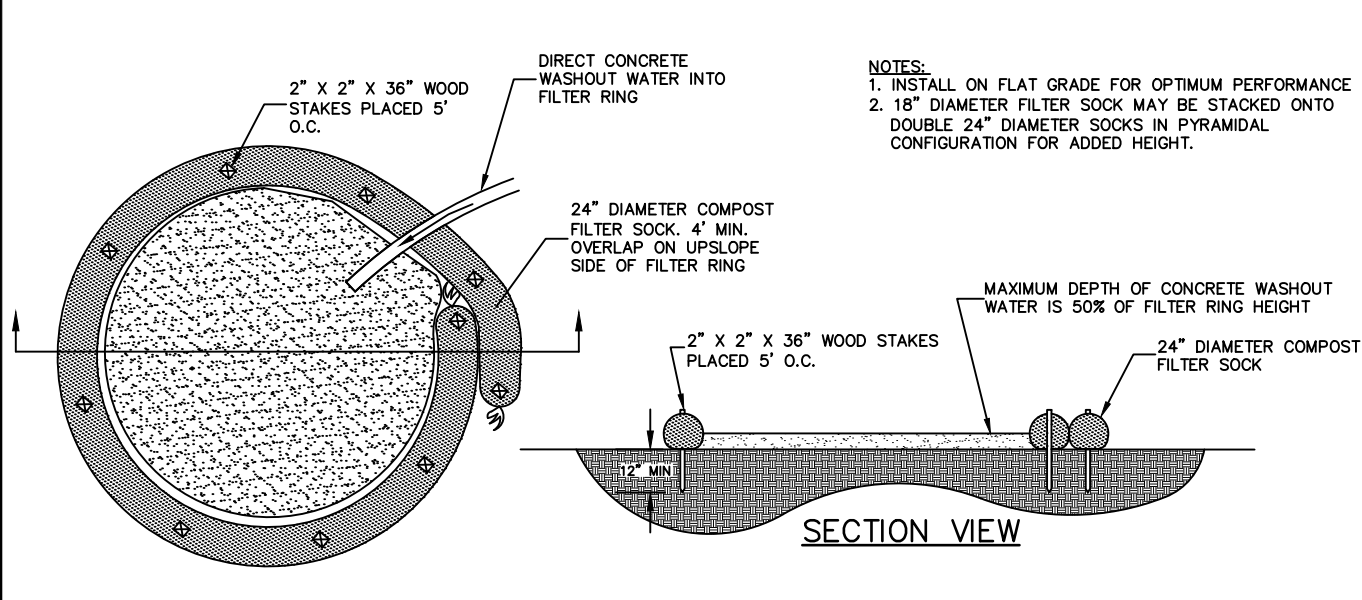
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.

FILTERTEXT & JMD

SOCK NO.	DIA. IN.	LOCATION	SLOPE (%)	SLOPE LENGTH ABOVE BARRIER (FT)
FS-1	18"	SOUTH EAST CORNER OF PROPERTY	10.0%	50'
FS-2	18"	SOUTHERN EDGE OF PROPERTY	10.0%	140'
FS-3	18"	SOUTHERN EDGE OF PROPERTY	8.30%	120'
FS-4	18"	SOUTHERN EDGE OF PROPERTY	10.0%	90'
FS-5	18"	SOUTHERN EDGE OF BASIN	33.3%	10'
FS-6	18"	SOUTH WEST CORNER OF BASIN	50.0%	15'
FS-7	18"	WESTERN EDGE OF BASIN	50.0%	20'
FS-8	18"	WESTERN EDGE OF BASIN	50.0%	20'
FS-9	18"	TOPSOIL STOCKPILE	50.0%	35'

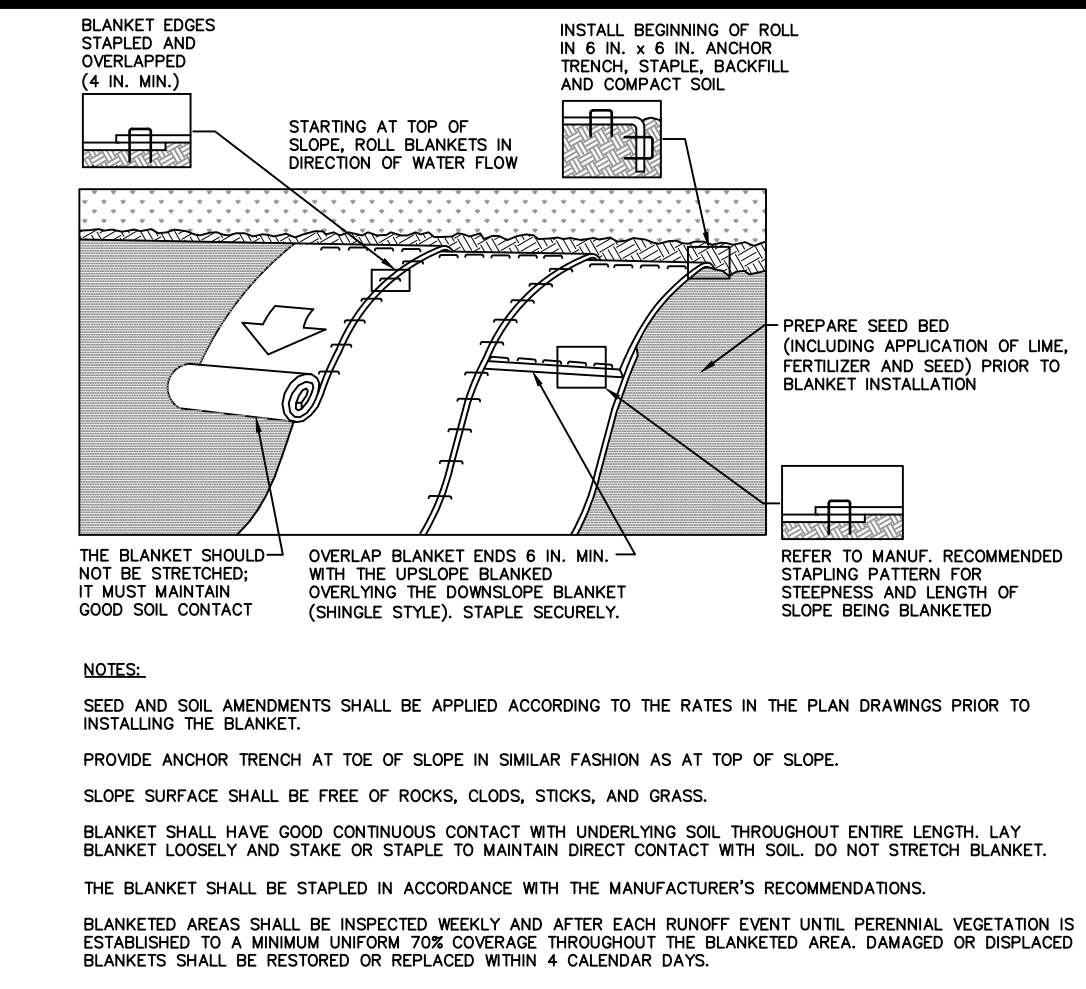
COMPOST FILTER SOCK TABLE

SUBSTITUTION OF FILTER SOCKS SHALL BE APPROVED BY CDD BEFORE INSTALLATION.



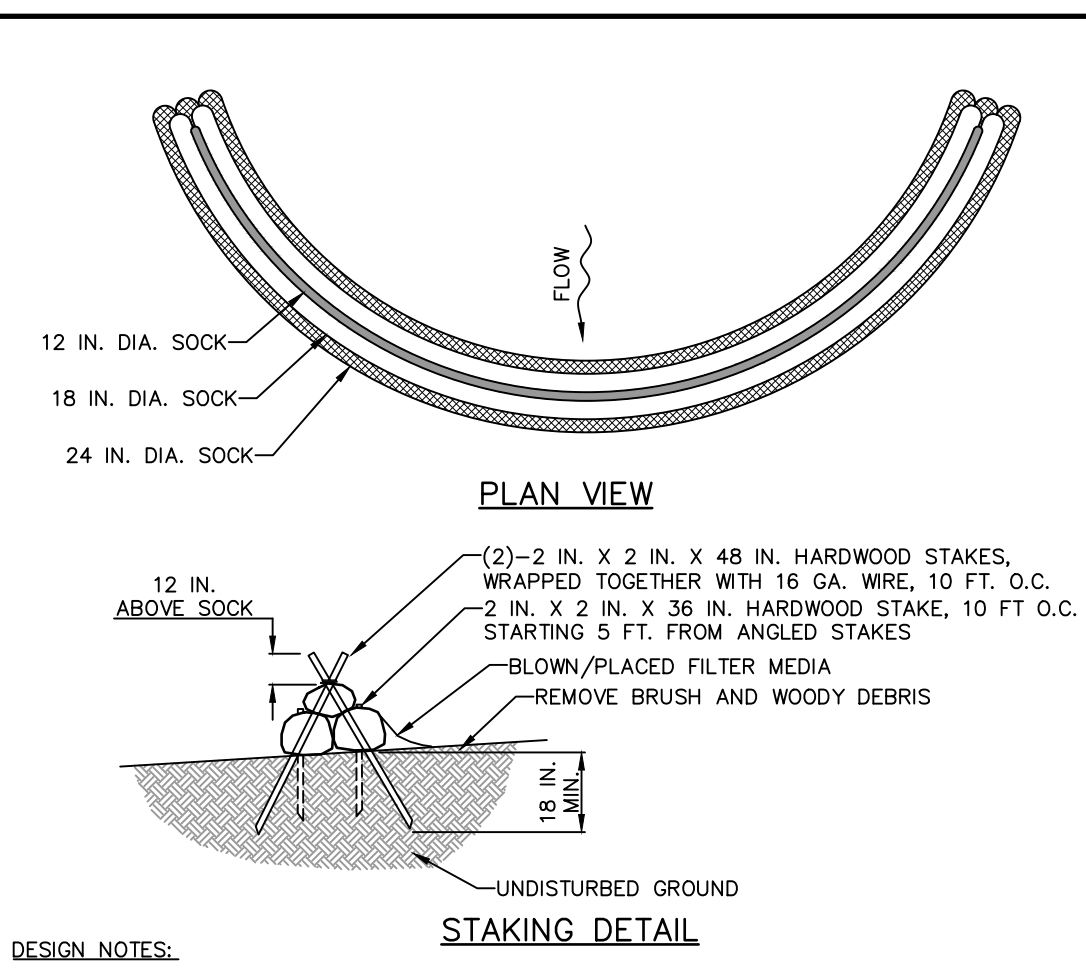
STANDARD CONSTRUCTION DETAIL #3-2  
ROCK CONSTRUCTION ACCESS WITH WASH RACK

NOT TO SCALE



STANDARD CONSTRUCTION DETAIL #1-1  
EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



STANDARD CONSTRUCTION DETAIL #4-1  
COMPOST FILTER SOCK

NOT TO SCALE

DESIGN NOTES:  
1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.  
2. MINIMUM BASE WIDTH IS EQUAL TO THE HEIGHT.  
3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE TRAP.  
4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS SHOWN ON THE PLAN VIEW.  
5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.

NOTES:  
SOCK MATERIAL SHALL MEET THE STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN EXCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.

COMPOST SOCK SEDIMENT TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE ACRES. (SEE MANUFACTURER FOR ANTICIPATED SETTLEMENT.)

THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. (SEE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.)

COMPOST SOCK SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE SOCKS.

PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

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PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

## DETAILED SEQUENCE OF CONSTRUCTION:

### SEQUENCE OF CONSTRUCTION

- Representatives of Upper Allen Township shall be notified prior to the commencement of any construction activity.
- Notify Cumberland County Conservation District (CCCD) 48 hours prior to starting any activity.
- Contractor to verify locations of existing utilities in all areas of the project prior to demolition and construction.
- Contractor shall follow intent of sequence of construction but can shift steps within each stage as appropriate for the work involved or as needed to meet Owner's construction schedule.
- Immediately repair/restore any BMP that is damaged or disturbed during construction activities.
- Mark out and protect all designated infiltration area with construction fencing ensuring protection of infiltration bed elevation. If interim staged construction activities must occur on or adjacent to infiltration bed, a minimum of 1 foot in situ soil must remain on top of proposed bed to protect infiltration properties.

### STAGE 1:

- Clear and grub areas for E&S measures on work site. Clear and grub only those areas where erosion control devices will be installed.
- Install all erosion and sediment control BMPs in Stage 1 to include perimeter controls, earthening activities and the remainder of the clearing and grubbing, as indicated on the E&S Plans.
- Install Rock Construction Entrance as shown on the plan. All construction vehicles must access each work site via an approved rock construction entrance.
- Locate staging/parking areas along the southern property line near the proposed storage structure just below the proposed activity buildings. Contractor to utilize the proposed access drive for access to the staging area.
- Install and maintain erosion protection at any designated topsoil stockpile areas in Stage 1. All possible locations are not shown on the plan but should be located and when needed protected accordingly with installed erosion and sediment control BMPs. Topsoil stockpile heights shall not exceed 35 feet. Stockpile side slopes must be 2:1 or flatter.
- Identify and mark infiltration bed area to protect those areas prior to main grading of work. It may be necessary to remark as main grading proceeds ensuring that one foot of soil remains undisturbed on top of infiltration bed areas.
- Strip topsoil and stockpile for later use.
- Commences main grading operation.
- Install proposed grass lined swales as needed to adjust existing grading to rough grading of proposed pad areas.
- Complete main grading of both proposed multi residential building pads sites and a single accessory storage structure. Establishing rough grade for each activity building pad site and accessory storage pads at proposed buildings provide reasonable vehicle approach from rock construction entrance to each pad site.

### STAGE 2:

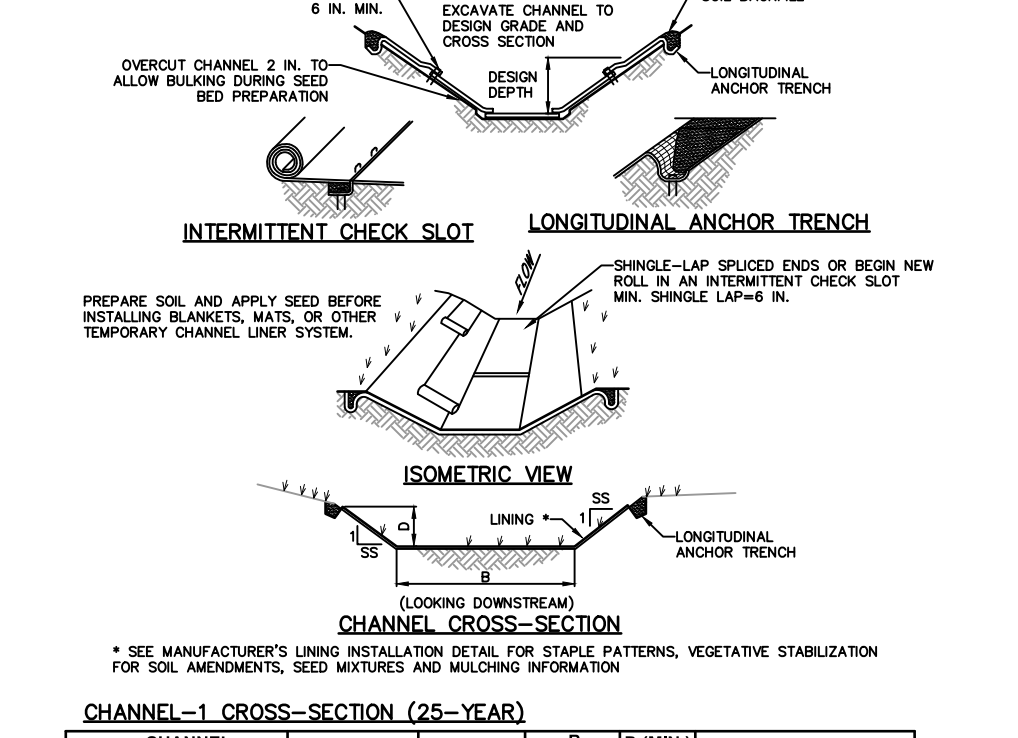
- Proceed with constructing building footings and foundations. Seepage may be encountered during construction. Contractor shall select appropriate means, methods and sequence to protect excavation site from slope instability. Any water pumped from footings operations or foundation construction must be pumped directly to temporary compost sock sediment trap.
- Construct gravity sanitary sewer main of development to existing sanitary sewer system in Mill Road (T-610).
- Commence building construction of multi residential buildings. Construct underground utilities within footprint and outside footprint. Coordinate with interior footing construction.
- When interior pad site is at rough grade elevation and substantial internal activity completed with building footprint, stabilize the building pad site with stone.
- Complete rough grading of site to reach plan subgrades.
- Upon stabilizing Stage 1 and 2 disturbances verify that perimeter controls will adequately capture sediment laden runoff. Adjust all temporary BMPs as necessary to protect against release of sediment.

### STAGE 3:

- Clean and verify all erosion controls are in working order prior to commencement of Stage 3. Remove/protect all infiltration bed areas.
- Construct proposed stormwater detention facility area to final grades. Stabilize areas.
- Construct sanitary sewer main from Mill road to proposed building pads.
- Extend Water main for Mill Road to Proposed building pad sites.
- Construct stormwater detention facility BMP areas at activity building pads and proposed building sites. A licensed professional shall be on-site to inspect the critical stages of all permanent BMPs, including:
  - Site observation of bed bottom.
  - Subsoil bed areas.
  - Verification of dimensions.
  - Embankment construction.
  - Checking excavation and installation of infiltration media at inverts.
  - Installation of outlet control structures and outlet pipes, along with bedding and backfill material.
- Excavate infiltration bed area for BMP's following instructions on PDSM Plans, complete installation of geotextile, structure and piping. Ensure no runoff enters BMPs from this vulnerable stage. Connect and seal all piping before construction of any BMP. Still protect against sediment laden runoff until upstream area is stabilized.
- Complete grading of site to subgrade and proceed with stabilizing paved areas with stone base.
- Place erosion control mat on disturbed surfaces with slopes equal to or greater than 3:1.
- Adjust local site controls as construction progresses.
- Complete flat work around site.
- Install maintenance access/parking area including walkways.
- Complete first application of paving.
- Areas at finished grade shall receive permanent stabilization. Areas not receiving permanent stabilization shall receive temporary stabilization. Complete temporary stabilization on all exposed earth areas and redress all erosion control facilities around the site.
- Clean and maintain local stormwater management controls/filters to intercept sediment laden runoff before it gets to infiltration basin.

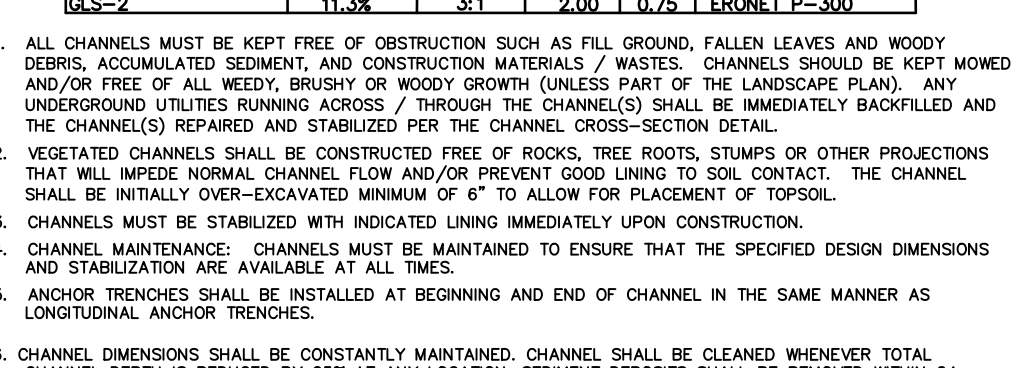
### STAGE 4:

- Complete fine grading of site.
- Place topsoil on site.
- Complete any landscaping and permanent stabilization work.
- Complete second application of paving.
- Remove/restore staging/parking areas.
- Upon completion of all stages and having brought all disturbed areas to permanent stabilization in accordance with the plan and the approval of Engineer and Department of Environmental Protection, all remaining temporary E&S control facilities to be dismantled and removed from the project area. Prior to removal, all drainage piping to be flushed and clean of sediment loads are not to allow any sediment to reach the underground stormwater network and infiltration basins. Any areas disturbed during BMP removal shall receive permanent stabilization.



STANDARD CONSTRUCTION DETAIL #3-1  
COMPOST SOCK SEDIMENT TRAP

NOT TO SCALE



STANDARD CONSTRUCTION DETAIL #3-2  
ROCK CONSTRUCTION ACCESS WITH WASH RACK

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

## EROSION CONTROL PLAN GENERAL NOTES:

### 1. The site contractor shall be responsible for implementation of this Erosion Control Plan.

### 2. The site contractor shall not disturb more area than is necessary for the task to be done, so that potential for erosion is minimized.

### 3. Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas to the controls.

### 4. A copy of the approved Erosion and Sediment Control Plan / Drawings (stamped, signed and dated by the reviewing agency) must be available at the project site during all times.

### 5. At least 7 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the owner and/or operator shall invite all contractors involved in those activities, the landowner, appropriate municipal officials, the erosion control plan preparer, the post-construction plan preparer, and a representative of the County Conservation District to an on-site pre-construction meeting.

### 6. At least 3 days before starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call system incorporated shall be notified at 1-800-242-1776 for the location of existing underground utilities.

### 7. All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Each stage shall be completed and stabilized before any following stage is initiated. Clearing, grubbing, and topsoil stripping shall be limited only to those areas described in each stage. Deviation from that sequence must be approved in writing from the County Conservation District prior to implementation.

### 8. Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the construction sequence. General site clearing, grubbing and topsoil stripping may not commence in any stage or phase of the project until the E & S BMPs specified by the Construction Sequence for that stage or phase have been installed and are functioning as described in this document.

### 9. At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries and the results of the analytical testing to qualify the material as clean fill. Form FP-001 must be obtained before clearing and grubbing operation begins.

### 10. Topsoil stockpile heights shall not exceed 35 feet. Stockpile side slopes must be 2:1 or flatter.

### 11. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices (BMPs) to minimize the potential for erosion and sediment pollution, and notify the Conservation District and/or the regional office of a PA DEP.

### 12. Solids, trash and other pollutants shall be disposed in accordance with federal and state regulations in accordance with the Pennsylvania Department of Environmental Protection's Solid Waste Management regulations at 25 Pa. Code 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, and 2612 at reg. No. building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.

### 13. All off-site waste and borrow areas must have an E & S Plan approved by the Conservation District or DEP, and fully implemented prior to being activated.

### 14. The contractor is responsible for ensuring that any material brought onto the site is Clean Fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance but qualifying as Clean Fill due to analytical testing.

### 15. All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped outlet, or bag or equivalent, and removed from the site with stone.

### 16. Areas which are to be topsoiled shall be scarified to a minimum depth of 4 inches prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outcrops shall have a minimum of 2 inches of topsoil.

### 17. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures, conduits, etc. shall be compacted in accordance with local requirements or codes. All fills shall be placed in compacted layers not to exceed 9 inches in thickness. Fill materials shall be free of frozen particles, brush, rocks, sod, or other foreign or objectionable materials that would interfere with or prevent construction of the project. Fills of frozen materials or soft, muddy, or highly compressible materials shall not be incorporated into fills. Fill shall not be placed on saturated or frozen surfaces.

### 18. Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.

### 19. All graded areas shall be permanently stabilized immediately upon reaching finished grade. Out slopes in competent bedrock and rock fills need not be vegetated.

### 20. Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. Disturbance areas shall be stabilized by seeding and/or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.

### 21. Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.

### 22. All E & S BMPs must remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the Conservation District or PA DEP.

### 23. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the Conservation District for an inspection prior to removal / conversion of the E & S BMPs.

### 24. After final site stabilization has been achieved, temporary E & S BMPs must be removed or converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs must be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal / conversions should be done only during the dormant season.

### 25. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the Conservation District to schedule a final inspection.

### 26. Failure to correctly install E & S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E & S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Pennsylvania Department of Environmental Protection as defined in Section 602 of the Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.

### 27. Only limited disturbance will be permitted to initially access and acquire borrow to construct control facilities, before general site alteration begins.

### 28. If fuel or other dangerous chemicals are stored on site, then a Preparedness, Prevention and Contingency (PPC) Plan must be developed and kept on site.

### 29. An erosion control blanket must be installed on all disturbed slopes steeper than 3:1, in all areas with concentrated flows as noted on the drawings.

### 30. Underground utilities cutting through any active channel shall be immediately backfilled and the channel restored to its original cross-section and protective lining. Any loose flow within the channel shall be conveyed past the work in the manner described in this plan until such restoration is complete.

### 31. The contractor shall be responsible for the ongoing maintenance of all erosion and sediment pollution control facilities throughout the period of construction and until such time that the site is deemed permanently stabilized.

### 32. Until the site is stabilized, all erosion and sediment control BMPs must be maintained properly. Responsibility for implementing and maintaining erosion and sedimentation control measures shall be assigned to a responsible individual who will be present at the project site each working day. Maintenance must include inspections of all erosion and sediment control BMPs after each runoff event and on a weekly basis, to ensure that they are in place, stable, and functioning properly. All preventive and corrective maintenance work, including replacement, re-grading, re-seeding, re-mulching, and re-netting must be performed immediately, to restore the control measure to the original design. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs, or modifications of those installed, will be required.

### 33. A log showing dates that E & S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency officials at the time of inspection.

### 34. See the construction details and seeding specifications for maintenance procedures for the various control measures.

### 35. Mud must be removed from vehicle tires before they exit the site. Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer or surface water.

### 36. The rock construction entrances shall be inspected at the end of each construction day, rock construction entrances with wash racks should be maintained to the specified dimensions by adding rock when necessary at the end of each workday, the rock pile shall be maintained at a thickness of 8 inches. A stockpile of rock shall be maintained on site for this purpose. Any sediments that have been deposited on public roads shall be removed immediately. drain space under the wash rack shall be kept open at all times. damage to the wash rack shall be repaired prior to further use of the rack.

### 37. Compost sock sediment trap shall be inspected at the end of each workday, weekly, and after each rainfall. sediment collected from the wash rack runoff shall be removed when it reaches 1/3 height of the socks.

### 38. All compost filter socks shall be inspected weekly and after each runoff for washouts, overlapping, and physical damage, any damage shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspection. biodegradable filter socks shall be replaced after 6 months; photodegradable socks after 1 year. polypropylene socks shall be replaced according to manufacturer's recommendation. accumulated sediments shall be removed when it reaches half the aboveground height of the sock and disposed in the manner as described in this plan.

### 39. All concrete washout facilities shall be inspected daily. damaged or leaking washouts should be deactivated and repaired or replaced immediately.

### 40. The proper timing of the installation and removal of all facilities as herein specified shall be assured. the operator shall remove from the site, recycle or dispose of all building materials and waste in accordance with the department's solid waste management regulations at 25 Pa. Code 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, and 2612 at reg. No. building materials or wastes at the site. sediment removed from erosion and sedimentation control measures is to be placed with the topsoil stockpile areas on site.

## DESIGN : MH

## DRAWN : MH

## CHECKED : RAC

## DATE : 04/3