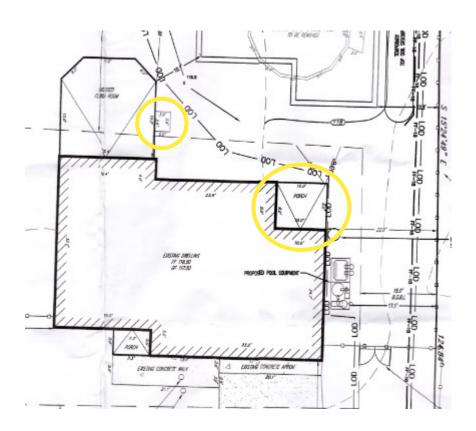
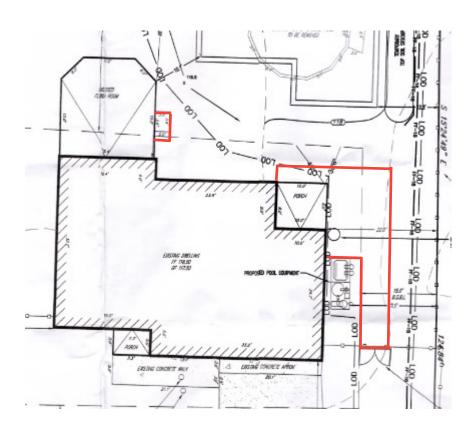
# Existing Concrete Patio = 90 Square Feet Existing Concrete Step = 16 Square Feet



KerriLynne Paullin 20 Highland Drive Yardley, PA 19067

# Proposed Concrete Patio = 494 Square Feet Proposed Concrete Step = 24 Square Feet

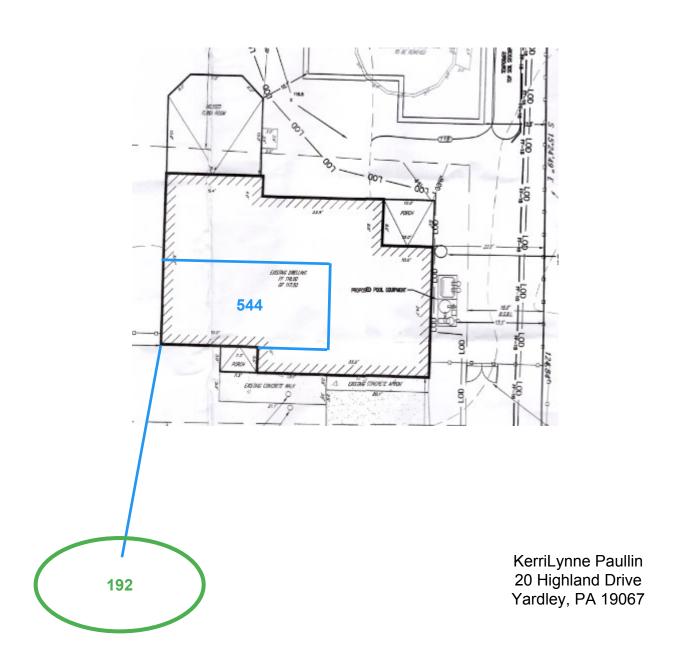


KerriLynne Paullin 20 Highland Drive Yardley, PA 19067

## Required Impervious Surface to Mitigate from Calculations = 426 Square Feet Proposed Impervious Surface to Mitigate from Roof into Rain Garden = 544 Square Feet

### Required Size of Rain Garden from Calculations = 182 Square Feet Proposed Size of Rain Garden = 192 Square Feet

Lot Size = 12,730 Square Feet



Owner

Thomas and Suzanne Farrell 208 West Ferry Road Yardley, PA 19067

#### Project Data

Lower Makefield Township Zoning Code Residential District R-2

Commonwealth of Pennsylvania Uniform Construction Code 2018 International Residential Code

Lot Area:

12,750 square feet

Existing Dwelling Area: 1156 square feet

Existing Shed area: 96 square feet

Proposed Addition area: 1431 square feet

Proposed Front Porch area: 174 square feet

Proposed Rear Porch area:

151 square feet

Proposed Detached Garage area: 672 square feet

Building Cover:

Existing: 1252 square feet 9.8 percent Proposed: 3680 square feet 28.9 percent

Existing Driveway Area:

1709 square feet

Existing Walkway Area: 78 square feet

Existing Patio Area:

384 square feet to be demolished

Proposed Driveway Area: 885 square feet

Total Impervious Cover:

Existing: 3423 square feet 26.8 percent

Proposed: 6352 square feet

49.8 percent 26 percent impervious surface permitted

Variance requested for impervious surface

Minimum Yard Setbacks: Front:

Required: 30'-0" Provided: 46'-5"

Side:

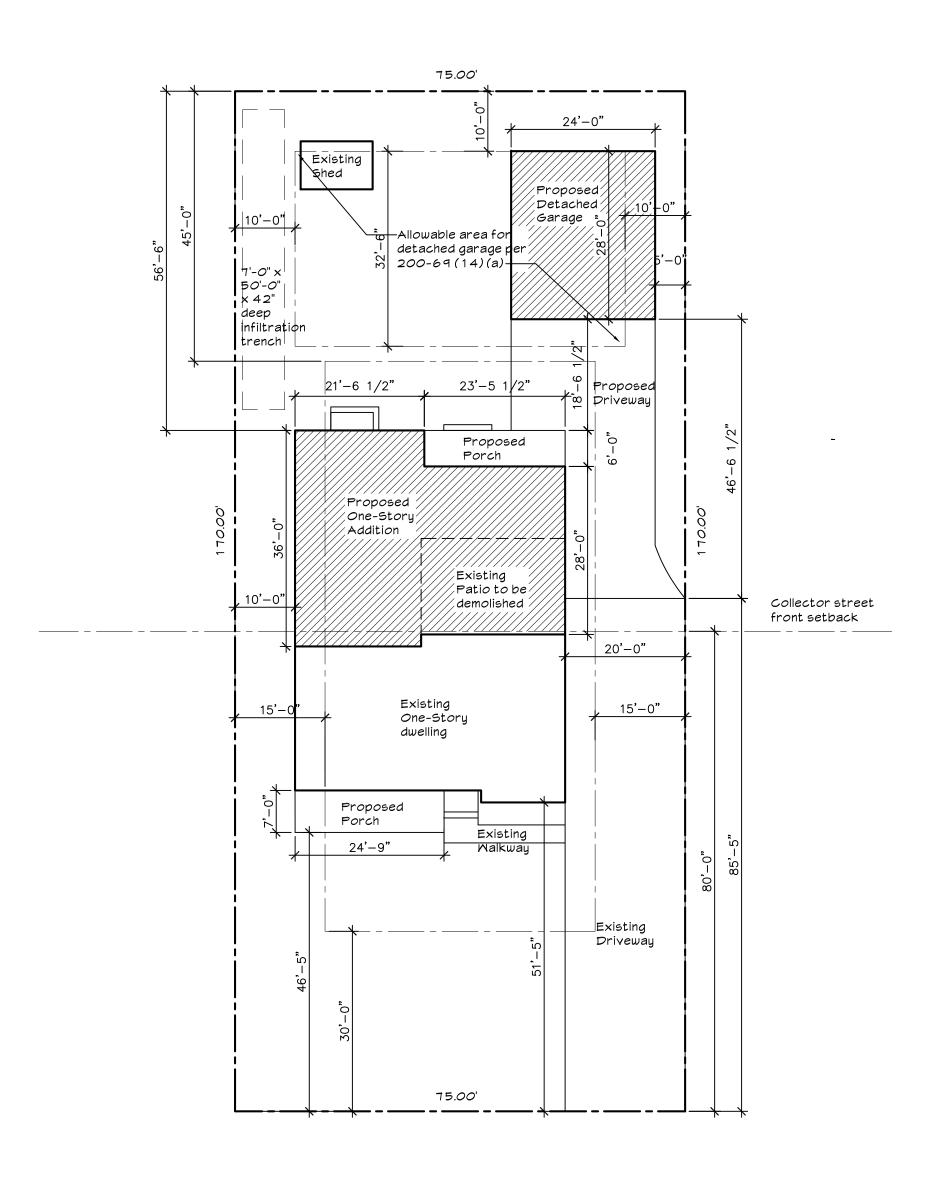
Required: 15'-0" Provided: 10-0" on left existing non-conformance

Variance requested to extend existing non-conforming side setback 36'-0" on right at house

Variance requested for 5'-0" side setback at detached garage and for garage height in excess of 15'-0"

Rear:

Required: 45'-0" Provided: 56'-6"



Mest Ferry Road

PLOT PLAN SCALE: 1/16" = 1'-0"

#### Stormwater Management Small Project Volume Control < 5,000 S.F. of New Impervious Surfaces

Step 1 2,929 S.F. Impervious Surface Area to be controlled to mitigate

Step 2 **488 C.F.** Required Control Volume: (ISA in S.F. x 2 inches runoff)/12 inches For Step 3, you need to select a Best Management Practice technique from Appendix I and provide a calculation that demonstrates this requirement is met. This can consist of structural measures such as an or minimization of soil compaction. Stone infiltration trench facility (Volume of Facility = Depth x Width x Length): 3.5 Feet Set Depth of trench and determine required surface area of trench. 7 Feet Width of the trench should be greater than 2 times its depth (2 x D) 50 Feet Set Trench Length 490 C.F. Trench Volume = Depth x Length x Width x 40% voids in stone Determine the number of tree plantings: Trees A newly planted deciduous tree can reduce runoff volume by 6 cu. ft Trees A newly planted evergreen tree can reduce runoff volume by 10 cu. ft. 0 C.F. Runoff Volume for trees planted Calculate the volume reduction credit by preserving existing trees:

> 0 C.F. Volume Reduction = (Existing Tree Canopy sq. ft. x 1 inch)/12 S.F. Approximate Area of Trees > 20 feet and within 100 feet of impervious cover: 0 C.F. Volume Reduction = (Existing Tree Canopy sq. ft. x 0.5 inch)/12

490 C.F. Total Runoff Volume Controlled Redo if Total Runoff Volume Controlled < Required Control Volume

S.F. Approximate Area of Trees within 20 feet of impervious cover:

Swale at centerline

on top of gravel

6" soil

1'-6"

Trench depth

6" minimum

sub-base

beneath pipe

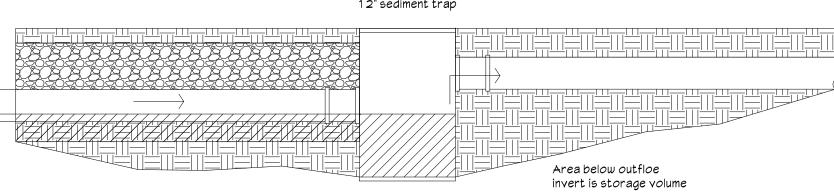
Uncompacted

Ovelap non-woven textle fabric Clean, uniformly graded 8" diameter continuously perforated pipe Non-woven geotextile fabric wrapping gravel

INFILTRATION TRENCH DETAIL ST-1 SCALE: 1/2" = 1'-0"

Width of trench to be 2x depth

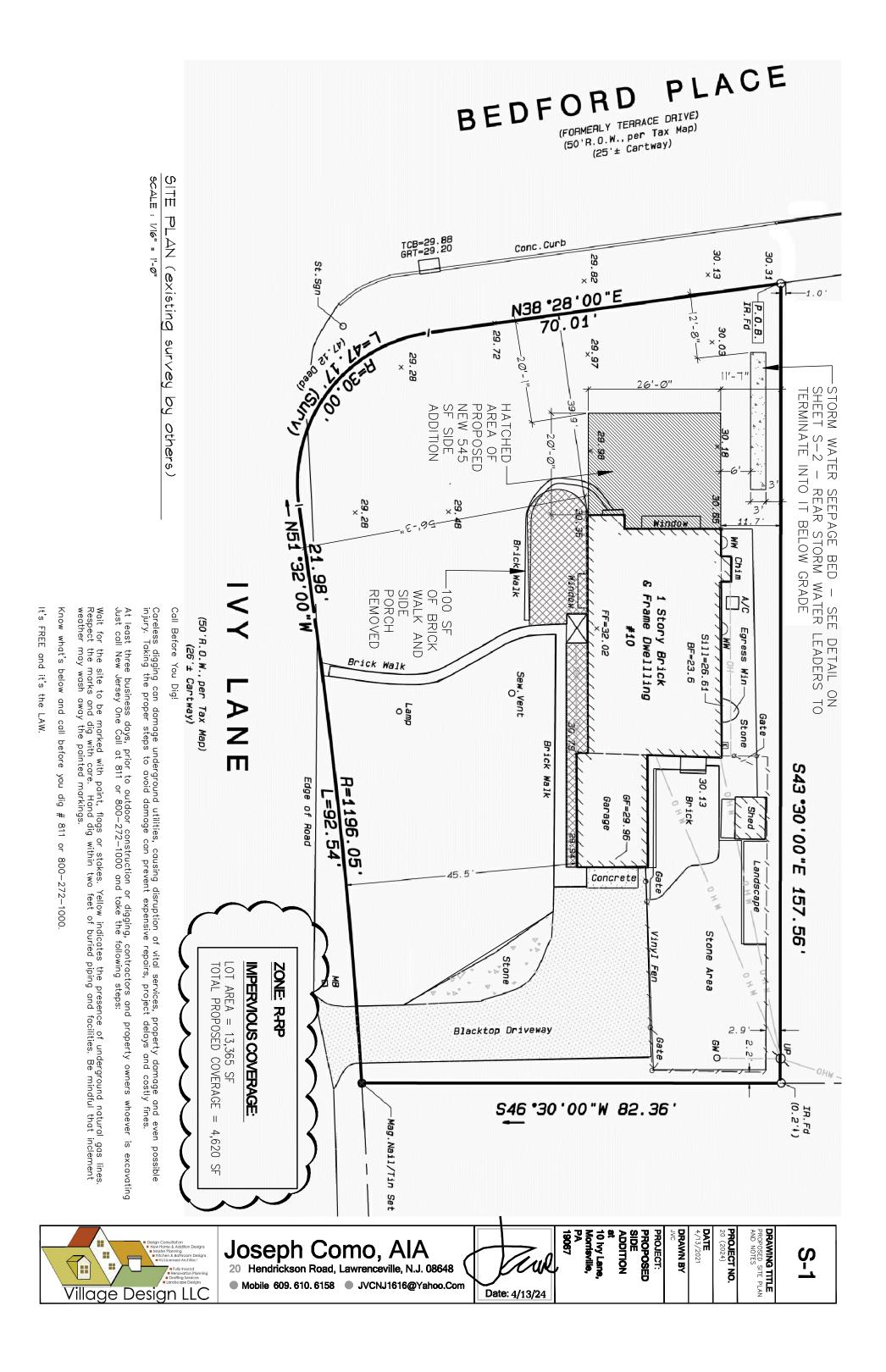
12" sediment trap

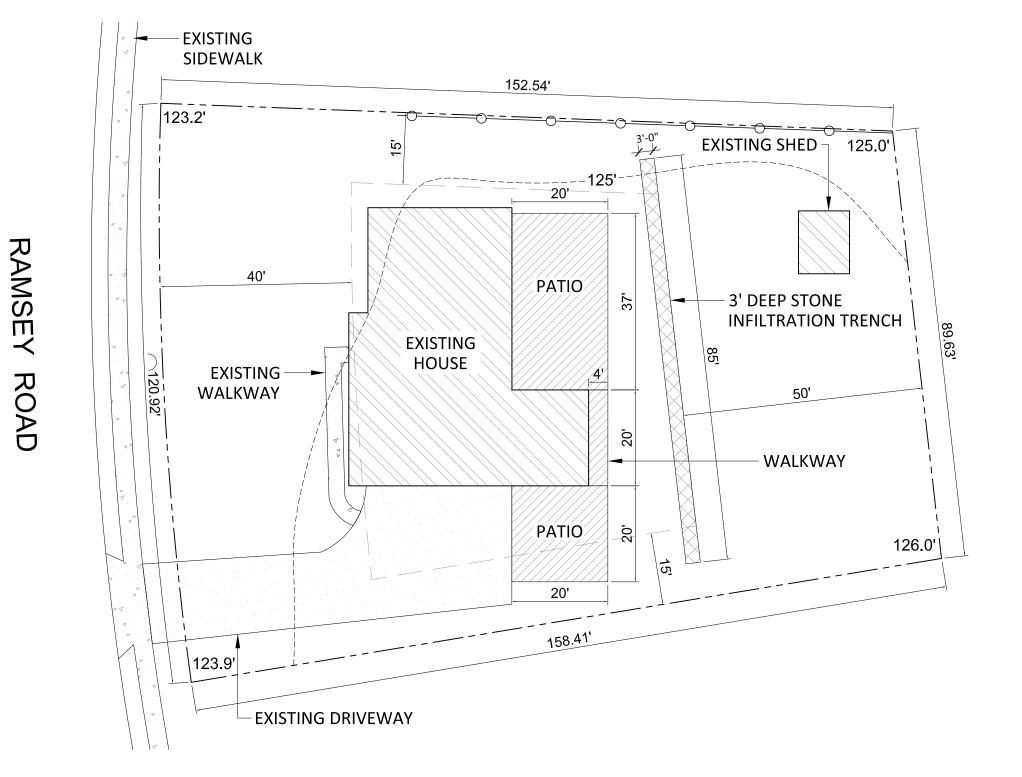


CIEND/ SIGN

1 of 1

Sheet Number:





IMPERVIOUS AREA CALCU			
EXISTING HOUSE	2,186 SQ.FT.		
EXISTING SHED	139 SQ.FT.		
EXISTING DRIVEWAY + SIDEWALK	1,098 SQ.FT.		
PROPOSED PATIO + SIDEWALK	1,215 SQ.FT.		
TOTAL IMPERVIOUS AREA	4,638 SQ.FT.		
TOTAL LOT AREA		16,468 SQ.FT.	28.2%



4 2 9 WHARTON STREET PHILADELPHIA PA 19147 FAMAOKTO @ GMAIL.COM TELE 215 870 8416

© 2024

DATE:

28 MAY 2024

PROJECT NO.

FOS . 2024 067

#### **WHALEN HOME**

ADDRESS: 423 RAMSEY ROAD YARDLEY PENNSYLVANIA 19067

OWNERS:

WHALEN, COLLEEN + MATTHEW

LATITUDE:

40°12'53.11"N

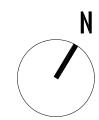
74°49'59.63"W

PARCEL ID:

LONGITUDE:

20-055-142 0.378 ACRES

LOT AREA





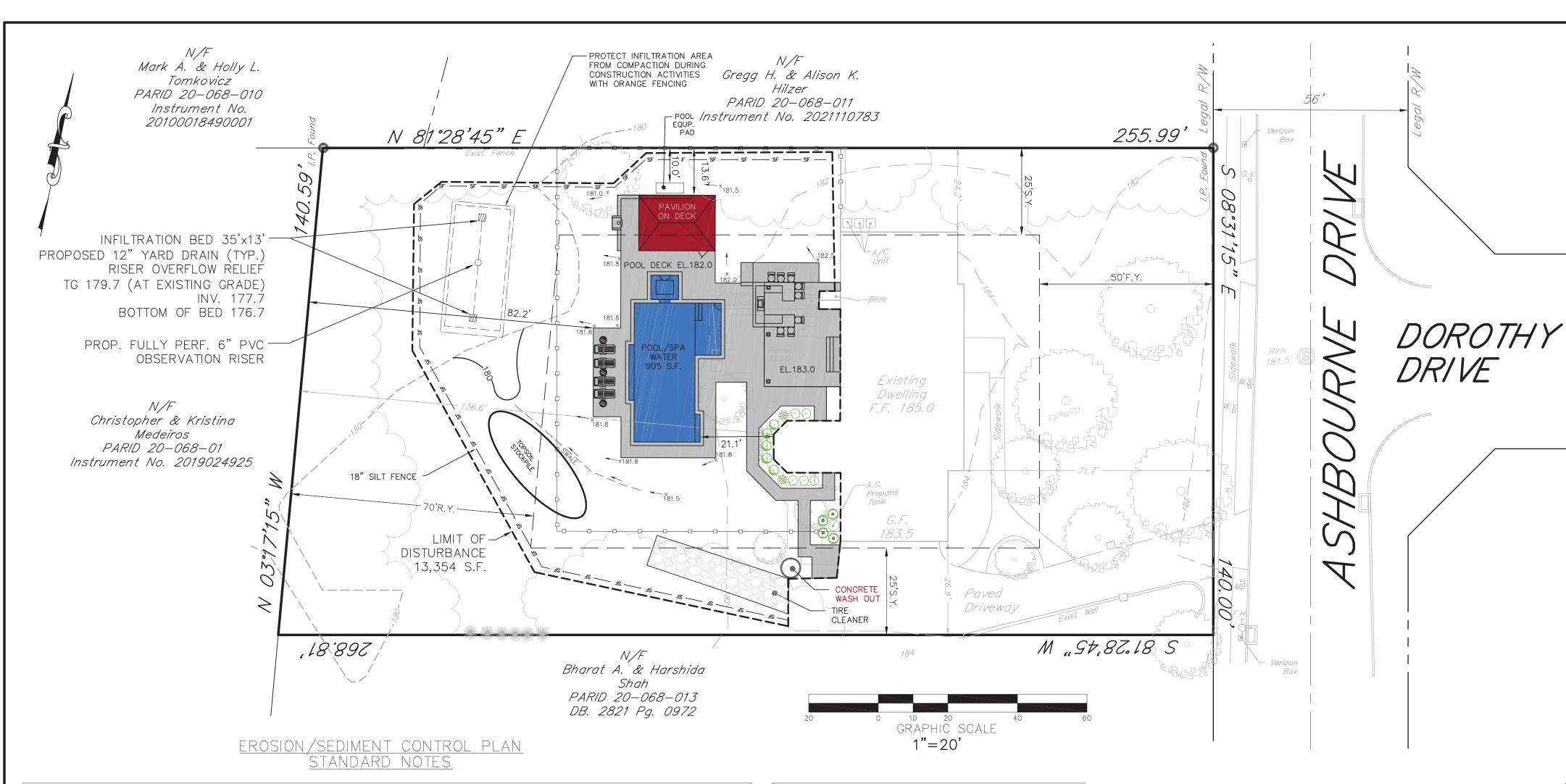
SCALE:

1" = 20'-0"

SITE PLAN A 1.0

DRAWN BY:

JF



 STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET; STOCKPILE SLOPES MUST NOT EXCEED 2:1.

PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT

• THE OPERATOR/RESPONSIBLE PERSON (O/RP) ON SITE SHALL ASSURE

THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS

- POLLUTION, THE O/RP SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. • THE O/RP SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL
- PLAN HAS BEEN PREPARED AND APPROVED BY THE BUCKS COUNTY CONSERVATION DISTRICT AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOILS AND/OR ROCK SPOIL AND BORROW AREAS REGARDLESS OF THEIR LOCATIONS.
- ALL PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER AN UNDISTURBED AREA.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
- EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING THE REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY.
- AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, THE O/RP SHALL INVITE ALL CONTRACTORS INVOLVED IN THAT ACTIVITY, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN DESIGNER AND THE BUCKS COUNTY CONSERVATION DISTRICT TO A PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THAT ACTIVITY SHALL NOTIFY THE PENNSYLVANIA ONE-CALL SYSTEM INC. AT 1-800-242-1776 TO DETERMINE ANY UNDERGROUND UTILITIES

- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITY CEASES, THE O/RP SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITY. DURING ON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT SPECIFIED RATES. DISTURBED AREAS THAT ARE NOT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH TEMPORARY VEGETATIVE STABILIZATION
- DISTURBED AREAS THAT ARE AT A FINISHED GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% VEGETATIVE OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
- UPON THE INSTALLATION OF TEMPORARY SEDIMENT BASIN RISER(S), A QUALIFIED SITE REPRESENTATIVE SHALL CONDUCT AN IMMEDIATE INSPECTION OF THE RISER(S), WHEREUPON THE BUCKS COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING THAT THE RISER IS SEALED (WATERTIGHT).
- AT STREAM CROSSINGS, A 50-FOOT BUFFER SHALL BE MAINTAINED. ON BUFFERS, CLEARINGS, SOD DISTURBANCES AND EXCAVATIONS, EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITY SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGED RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE AVOIDED WITHIN BUFFER ZONES.
- UNTIL A SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING. RE-MULCHING AND REONETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
- SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN SOIL STOCKPILES AND STABILIZED.
- ALL BUILDING MATERIAL AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED IN ACCORDANCE WITH DEP'S SOLID WASTE REGULATIONS (25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ.) AND/OR ANY ADDITIONAL LOCAL, STATE OR FEDERAL REGULATIONS. NO BUILDING MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

#### POST CONSTRUCTION MAINTENANCE PROGRAM:

The applicant/owner, its assigns shall be responsible for the ownership and maintenance of the proposed BMP's shown on this plan in perpetuity. All BMP's shall be maintained in accordance with all applicable Township Standards and Specifications as so designated in the Ownership and Maintenance agreement as entered into between the Owner and the Township.

#### MAINTENANCE OF THE SEEPAGE BED:

- 1. The applicant/owner, shall ensure that all catch basins within the system are inspected and cleaned after each runoff event. Remove any debris such as lawn, clippings, leaves or accumulated trash that may prohibit runoff from entering the catch basins.
- 2. The applicant/owner, shall ensure that the overlying vegitation of the seepage bed should be maintained in good vegitatated conditions, and any bare spots revegitated immediately.

3. The applicant/owner, shall ensure that no vehicular traffic is permitted over or on the

- seepage bed and care should be taken to avoid excessive compaction by lawn equipment.
- 4. The applicant/owner, shall ensure all roof leaders that lead to the seepage bed are free and clear of any debris that may cause clogging of the seepage bed inflow pipe. Quarterly flushing of the catch basins and inflow pipe are required.

Should any of the BMP's shown on this plan fail to function as designed, the applicant/owner shall be responsible for all corrective measures including but not limited to cleaning, flushing, repair or replacement as necessary or directed by the Township Engineers Office.

#### OWNER ACKNOWLEDGEMENT:

I/WE ALAN & EILEEN BRACKUP, ACKNOWLEDGE THAT THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THESE PLANS CAN ONLY BE ALTERED OR REMOVED AFTER APPROVAL OF A REVISED PLAN BY THE APPLICABLE MUNICIPALITY. OWNER ALSO AGREES TO ALL ABOVE LISTED BMP MAINTENANCE PROGRAM REQUIREMENTS.

SIGNATURE

DATE

#### SEEDING PROCEDURES

SOIL AMENDMENTS FOR PERMANENT SEEDING MINIMUM STANDARD FOR LIMESTONE AND FERTILIZER (IF A SOIL TEST IS NOT PERFORMED) LIMESTONE SHALL BE APPLIED AT THE RATE OF 6 TONS PER ACRE. FERTILIZER SHALL BE APPLIED AT THE RATE OF 1000 LBS. OF

ACRE. FERTILIZER SHALL  -	BE APPLIED AT THE RA	TE OF 1000	LBS. OF
10-20-20 TO THE ACRE.	GRASS SEED MIX		
PROPORTION BY WEIGHT	NAME OF GRASS	PURITY	GERMINATION
50%	KENTUCKY BLUE GRASS	90%	80%
20%	RED TOP	95%	92%
30%	PERENNIAL RYE GRASS	98%	89%

APPLICATION RATE = 4 LBS. / 1000 SQ. FEET ALL AREAS WHICH ARE UNPAVED AND UNPLANTED SHALL BE CONSIDERED GRASS AREAS AND BE SEEDED WITH SPECIFIED MIXTURE, EXCEPT THOSE AREAS SPECIFIED FOR SOD PLACEMENT.

SOIL AMENDMENTS FOR TEMPORARY SEEDING SITE PREPARATION

APPLY 1 TON AGRICULTURAL-GRADE LIMESTONE PLUS FERTILIZER AT THE RATE OF 50-50-50 AND WORK IN WHERE POSSIBLE. AFTER SEEDING, MULCH WITH HAY OR STRAW AT A RATE OF 3.0 TONS PER ACRE.

FOR SPRING SEEDING: (UP TO JUNE 30) (A) ANNUAL RYEGRASS, OR

(C) WINTER WHEAT

VEGETATION.

(B) SPRING OATS, OR 96 (3 BU) (C) SPRING OATS PLUS ANNUAL RYEGRASS 96 OATS + 26 RYE FOR LATE SPRING AND SUMMER SEEDING: (5/15 - 8/15)(A) SUDANGRASS, OR

(B) ANNUAL RYEGRASS FOR LATE SUMMER AND FALL SEEDINGS: (AUGUST 15 ON) (A) ANNUAL RYEGRASS, OR (B) WINTER RYE, OR 168 (3 BU)

#### EARTHWORK STAGING

180 (3 BU)

IN ORDER TO KEEP EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION TO AN ABSOLUTE MINIMUM, THE FOLLOWING PROCEDURES AND STAGES SHALL

1. PLACE SILT FENCING/SOCK AS DEPICTED ON PLANS AND DOWNSTREAM OF ALL TOPSOIL STOCKPILING AREAS. INSTALL CONSTRUCTION ENTRANCE. (SEE CONSTRUCTION ENTRANCE NOTE). 2. CLEAR AND GRUB PROPOSED CONSTRUCTION AREA OF EXISTING

3. STRIP TOPSOIL AS REQUIRED WITHIN POOL/ADDITION AREA AND STOCKPILE AS SHOWN.

4. CONSTRUCT PROPOSED POOL AND APPURTENANCES. 5. FINISH GRADE, SEED, MULCH AND LANDSCAPE ENTIRE SITE.

6. REMOVE TEMPORARY CONTROL MEASURES AFTER VEGETATION HAS BEEN ESTABLISHED AND STABILIZATION OF THE SITE IS COMPLETE. AREAS DISTURBED DURING THE REMOVAL OF THE CONTROLS MUST BE STABILIZED.

VOLUME CO	NTROL CALCULATIONS/INFILTRATION D	RY WE	LL SIZI	NG:				
(2 INCHES	RUNOFF/12 INCHES) * IMPERVIOUS SU	JRFACE	(S.F.)	= VOI	LUME (	C.F.)		
TOTAL IMPE	RVIOUS AREA OVER 18%:	2,469	S.F.					
2,469	* (2 INCHES RUNOFF/12 INCHES) =	411.5	C.F.					
411.5 C.F.	/ .4 VOID RATIO FOR STONE =	1,029	C.F.=	REQUIF	RED VO	LUME		
PROPOSED	TRENCH VOLUME			(L)	(W)	(D)		
				35	13	2.5	1,137	C.F.
PROPOSED	TRENCH VOLUME EXCEEDS THE REQUI	RED W	OLLIME	RY		108 C		

SWALE AT CENTERLINE W/

RISER AT EACH END O

PERMEABLE SOIL 20-30% -

(COMPOST), AND 70-80%

SOIL BASE (TOPSOIL)

CLEAN UNIFORMLY

GRADED AASHTO #1 COURSE AGGREGATE

12" YARD DRAIN INSPECTION OVERFLOW

AND CENTER OF PIPE

		D) ( )						
VOLUME CON	ITROL CALCULATIONS/INFILTRATION D	RY WE	LL SIZI	NG:				
/0 INJOUES E	NINOEE (40 INOLIEC) * IMPED/4011C CI		(C.E.)	1/01	11117 /	0 - 1		
(2 INCHES R	RUNOFF/12 INCHES) * IMPERVIOUS SU	IRF ACE	(S.F.)	= 701	LOME (	C.F.)		
TOTAL IMPER	RVIOUS AREA OVER 18%:	2,469	S.F.					
2,469	* (2 INCHES RUNOFF/12 INCHES) =	411.5	C.F.					
411.5 C.F.	/ .4 VOID RATIO FOR STONE =	1,029	C.F.=	REQUIF	ED VO	LUME		
PROPOSED T	RENCH VOLUME			(L)	(W)	(D)		
				35	13	2.5	1,137	C.F.
PROPOSED T	RENCH VOLUME EXCEEDS THE REQUIR	RED V	DLUME	BY		108 C	.F.	

OVERLAP NON-WOVEN

GEOTEXTILE FABRIC

FESCUE 108 LBS/AC

6" SDR 35 PVE PIPE

- CONTINUOUS NON-WOVEN

GEOTEXTILE FABRIC TOP

SIDES AND BOTTOM

UNCOMPACTED

SUB-GRADE

DEBRIS SCREEN

INFILTRATION PIPE TRENCH DETAIL

PENNLAWN-FINE

FULLY PERFORATED

6" SDR 35 PVF PIPE

ISOMETRIC VIEW

VOLUME CON	ITROL CALCULATIONS/INFILTRATION D	RY WELL SIZI	NG:					
(2 INCHES R	UNOFF/12 INCHES) * IMPERVIOUS SU	RFACE (S.F.)	= VOI	_UME (	C.F.)			
TOTAL IMPER	RVIOUS AREA OVER 18%:	2,469 S.F.						
2,469	* (2 INCHES RUNOFF/12 INCHES) =	411.5 C.F.						
411.5 C.F.	/ .4 VOID RATIO FOR STONE =	1,029 C.F.=	REQUIF	RED VO	LUME			
PROPOSED T	RENCH VOLUME		(L)	(W)	(D)			
			35	13	2.5	1,137 C.F.		
PROPOSED T	PROPOSED TRENCH VOLUME EXCEEDS THE REQUIRED VOLUME BY 108 C.F.							

CON	ITROL CALCULATIONS/INFILTRATION D	RY WE	LL SIZI	NG:				PROF PROF
ES R	UNOFF/12 INCHES) * IMPERVIOUS SU	IRFACE	(S.F.)	= VOI	LUME (	C.F.)		ТОТ
/PEF	RVIOUS AREA OVER 18%:	2,469	S.F.					,
	* (2 INCHES RUNOFF/12 INCHES) =	411.5	C.F.					'
F.	/ .4 VOID RATIO FOR STONE =	1,029	C.F.=	REQUIF	RED VOI	LUME		
ED T	RENCH VOLUME			(L)	(W)	(D)		
				35	13	2.5	1,137 C.F.	

FILTRATION	BED [	DE:	SIG	N			
CALCULATIONS/INFILTRATION D	RY WELL SIZI	NG:					PROPOSED POOL EQUI
/ F/12 INCHES) * IMPERVIOUS SU			_UME (	C.F.)			TOTAL IMPERVIOUS
AREA OVER 18%:	2,469 S.F.						TOTAL INCREASE TO
INCHES RUNOFF/12 INCHES) =							TOTAL IMPERVIOUS
VOID RATIO FOR STONE =	1,029 C.F.=	REQUIF	RED VOI	LUME			
H VOLUME		(L)	(W)	(D)			
		35	13	2.5	1,137	C.F.	

<u>PLAN VIEW</u>

		1
DWELLING	3,310	3,310
DRIVEWAY	2,237	2,237
FRONT WALK & PORCH	482	482
REAR PATIO/WALKS/WALLS (TBR)	1,081	0
BILCO DOOR	32	32
STEPPING STONES (TBR)	45	0
PROPOSED POOL DECKING/COPING/WALKWAY	N/A	2,997
PROPOSED POOL EQUIPMENT	N/A	24
TOTAL IMPERVIOUS	7,187	9,082
TOTAL INCREASE TO IMPERVIOUS	,	

SOILS DATA

UrB - URBAN LAND - LANSDALE COMPLEX, O TO 8 PERCENT SLOPES

**IMPERVIOUS CALCULATIONS** 

ENTIRE SITE IS WITHIN THE FOLLOWING SOIL TYPE:

THE UNDERGROUND UTILITY LINE PROTECTION LAW (ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996) 1-800-242-1776

DATE: 10/13/2022 ATTENTION ALL CONTRACTORS: LOCATIONS OF EXISTING UTILITIES SHOWN

HEREON HAVE BEEN DEVELOPED FROM THE UTILITY COMPANY RECORDS AND OR ABOVE GROUND INSPECTION OF SITE. COMPLETENESS OR ACCURACY OF

TYPE, SIZE, DEPTH OR HORIZONTAL LOCATION OF UNDERGROUND UTILITIES C

PENNSYLVANIA LEGISLATIVE ACT 287 OF 1974 AS AMMENDED BY ACT 187 C

1996, CONTRACTORS MUST VERIFY LOCATIONS OF UNDERGROUND UTILITIES BY

STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF

1-800-242-1776, NO LESS THAN 3 NOR MORE THAN 10 DAYS PRIOR TO

**LEGEND** 

---- BUILDING SETBACK LINE

PROPOSED POOL FENCE

EXISTING DECIDUOUS TREE

EXISTING EVERGREEN TREE EXISTING UTILITY POLE

292 --- EXISTING MINOR CONTOUR LIN

EXISTING RIGHT-OF-WAY LINE - FXISTING FENCE

SF SF PROPOSED 18" SILT FENCE PROPOSED CONSTRUCTION ENTRANCE

FXISTING PROPERTY LINE

PROPOSED CONC. WASHOUT

PROPOSED POOL COPING

PROPOSED POOL DECK

PROPOSED POOL EQUIPMENT PAD

PROPOSED POOL WATER

EXISTING (SF) PROPOSED (S

PROPOSED ORANGE TREE PROTECTION

POSED TOPSOIL STOCKPILE AREA

NOTIFYING FACILITY OWNERS THROUGH THE ONE CALL SYSTEM.

EXCAVATION OR DEMOLITION WORK.

SITE SERIAL NO. 20222860245

SURFACE OVER 18% IS 2,469 SF.

# Designated Use: CWF,MF

#### SITE LOCATION MAP 1' = 2000'

#### TAX PARCEL INFORMATION

SUBJECT TRACT MAY BE IDENTIFIED BY BUCKS COUNTY TAX INFORMATION AS FOLLOWS:

LOWER MAKEFIELD TOWNSHIP RECORDED DEED DATA IS AS FOLLOWS:

> AS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN AND FOR THE COUNTY OF BUCKS AT DOYLESTWON PENNSYLVANIA

> > 36,737 S.F.

INSTRUMENT NO. RECORD OWNER PARCEL ID. TRACT AREA 20-068-012 19930246440000 ALAN & EILEEN BRACKUP 1756 ASHBOURNE DRIVE

#### **ZONING DATA**

OBTAINED FROM THE TOWNSHIP OF LOWER MAKEFIELD ZONING ORDINANCE								
DISTRICT CLASSIFICATION: "R-1" - RES								
SINGLE-FAMILY DETACHED								
REQUIREMENT	DEOLUBED	EVICTIMA	PROPOSED					
	REQUIRED	<u>EXISTING</u>						
MINIMUM LOT AREA:	34,000 S.F.	<i>36,737 S.F.</i>	36,737 S.F.					
MINIMUM LOT WIDTH @ BUILDING LINE:	140 FT.	140 FT.	140 FT.					
FRONT YARD RESTRICTION:	50 FT.	71.7 FT.	71.7 FT.					
SIDE YARD RESTRICTION (EACH):	25 FT.	24.2 FT.	24.2 FT.					
REAR YARD RESTRICTION:	70 FT.	136.6 FT.	136.6 FT.					
MAXIMUM BUILDING HEIGHT:	35 FT.	28.5 FT.	28.5 FT.					
MAXIMUM IMPERVIOUS COVERAGE:	18.00%	19.56%	* 24.72%					
ACCESSORY USE SETBACKS								
SWIMMING POOLS:								
MINIMUM DISTANCE FROM BUILDING:	10 FT.	N/A	21.1 FT.					
MINIMUM SIDE YARD:	10 FT.	N/A	13.6 FT.					
MINIMUM REAR YARD:	10 FT.	N/A	82.2 FT.					

\* A VARIANCE IS BEING REQUESTED FROM LOWER MAKEFIELD TOWNSHIP ZONING ORDINANCE CHAPTER 200 ARTICLE IV, SECTION 200-19B IMPERVIOUS SURFACE REQUIREMENTS CHART THAT LISTS THE MAXIMIM PERCENTAGE FOR A LOT SIZE OF 15,001 SQUARE FEET OR UP, TO BE 18% BY HOMEOWNER.

#### **GENERAL NOTES**

- 1. BOUNDARY TAKEN FROM EXISTING DEEDS.
- REFERENCE PLANS: FINAL PLAN OF MAKEFIELD BROOK, PREPARED BY TRI-STATE ENGINEERS & LAND SURVEYORS, DATED DECEMBER 11, 1985 AND LAST REVISED
- 3. BEARINGS SHOWN HEREON BASED ON CURRENT DEED/PLAN OF RECORD, VERTICAL DATUM BASED ON NAVD88. THE SITE BENCHMARK FOR THIS PROJECT SHALL BE THE REAR DOOR SILL NEAR THE BILCO HAVING AN ELEVATION OF 185.1.
- 4. TOPOGRAPHY BASED ON A SURVEY PERFORMED BY BRIAN K. PATTERSON, PLS ON SEPTEMBER 11, 2023, ONLY EXISTING TREES WITHIN THE LIMIT OF DISTURBANCE HAVE BEEN SURVEY LOCATED. ALL OTHER TREES, BUSHES, AND DRIP LINES OF TREES ARE DERIVED FROM AERIAL IMAGERY.
- 5. PROPERTY IS SERVICED BY PUBLIC WATER AND SEWER.
- 6. ALL EXISTING/PROPOSED FENCE ENCLOSURES FOR SWIMMING POOLS SHALL MEET THE MINIMUM REQUIREMENTS OF THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE AS AMENDED. ALL GATES MUST OPEN IN AN OUTWARD DIRECTION AND BE EQUIPPED WITH SELF CLOSING AND LATCHING GATES. 7. TEMPORARY CONSTRUCTION FENCE MUST BE INSTALLED AROUND THE POOL AREA ONCE
- EXCAVATED AND UNTIL SUCH TIME THE POOL IS FILLED AND FINAL PERIMETER POOL FENCING HAS BEEN INSTALLED. 8. PROVISIONS SHALL BE MADE FOR DRAINAGE OF THE POOL AND BACKWASH WATER
- DISPOSAL. THE USE OF OPEN FIELDS, OR DRY WELLS SHALL BE PERMITTED FOR THIS PURPOSE, PROVIDED THAT THEY MEET THE REQUIREMENTS OF THE PENNSYLVANIA DEPARTMENT OF HEALTH. WATER SHALL NOT BE EMPTIED ONTO PUBLIC ROADS, SANITARY SEWER OR ADJOINING LOTS.
- 9. THE TOWNSHIP'S ENGINEER'S OFFICE MUST BE CONTACTED A MINIMUM OF 48 HOURS IN ADVANCE OF INSTALLATION OF STORMWATER MANAGEMENT FACILITIES.
- 10. ANY DAMAGE WITHIN THE RIGHT OF WAY OF GRINDAN DRIVE CAUSED BY THE CONTRACTOR DURING POOL CONSTRUCTION SHALL BE REPAIRED/REPLACED/AS DIRECTED BY THE TOWNSHIP ENGINEER AT THE SOLE EXPENSE OF THE OWNER/CONTRACTOR.
- 11. LOWER MAKEFIELD IS HEREBY GRANTED A BLANKET EASEMENT TO ENTER THE SITE FOR THE PURPOSE OF INSPECTION OF THE STORMWATER BMP'S SHOWN ON THIS PLAN.
- 12. POOL REGULATIONS ARE SUBJECT TO THE 2015 INTERNATIONAL SWIMMING POOL AND SPA CODE, SECTION 305.
- 13. NO WATER SHALL BE PLACED IN THE POOL UNTIL A FENCE AS REQUIRED BY TOWNSHIP ORDINANCES IS INSTALLED.
- 14. EACH DWELLING DOOR THAT DIRECTLY ACCESSES THE POOL SHALL BE EQUIPPED WITH AN ALARM THAT SOUNDS AT LEAST THIRTY (30) SECONDS WHEN THE DOOR IS OPENED AND IS AUDIBLE THROUGHOUT THE DWELLING. (PENNSYLVANIA UNIFORM CONSTRUCTION CODE - SWIMMING POOL).
- 15. PEDESTRIAN GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AND HAVE A SELF-LATCHING DEVICE.

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#### DRAINTECH 12" SQUARE POLYOLEFIN GRATE DRAINTECH 6" SQUARE RISER (WHERE REQUIRED)

SWALE AT CENTERLINE W/

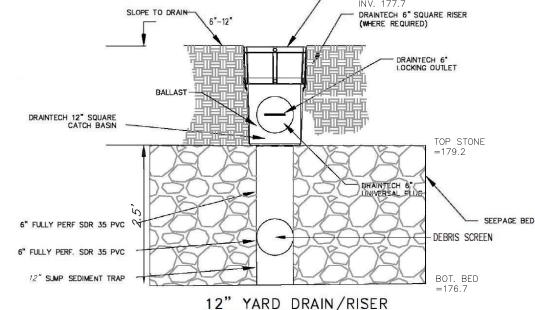
OVERFLOW RISER AT EACH

- FULLY PERFORATED

- 6" FULLY PERFORATED

RISER OBSERVATION PORT WITH SOLID LID

6" SDR 35 PVC PIPE



# **ACKNOWLEDGEMENT:**

BRIAN K. PATTERSON, P.L.S. , ACKNOWLEDGE THAT THE PROPOSED GRADING ACTIVITIES SHOWN ON THIS PLAN SHALL NOT SIGNIFICANTLY INCREASE STORMWATER RUNOFF TO, AND/OR OTHERWISE ADVERSELY IMPACT, DOWNSTREAM PROPERTIES, EXCEPT AS MAY BE PART OF AN APPROVED STORMWATER RUNOFF COLLECTION AND MANAGEMENT PLAN.

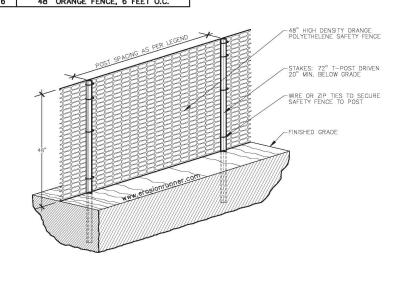


# FIGURE 3.18 Typical Compost Sock Washout Installation -2" X 2" X 36" WOOD STAKES PACED 5' O.C. NOTES: 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks. Adapted from Filtrexx

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#### Sensitive Area/Tree Protection 48" Safety Fence, 72" T-Posts



www.erosionrunner.com

ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE
PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T—POSTS.
THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE
PROTECTIVE FENCING MUST BE APPROVED.

#### -AASHTO NO. 57 OUTLET CROSS-SECTION OR FILTER FABRIC -WOOD POSTS-HEIGHT OF ROCK --AASHTO NO. 57 FILTER=5/6 HEIGHT OF STRAW BALES OR

-OPTIONAL 6 IN. COMPOST LAYER

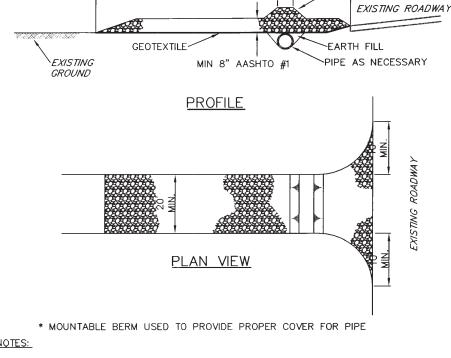
FIRMLY ANCHORED

UP-SLOPE FACE

A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.

FILTER FABRIC FENCE

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. STANDARD CONSTRUCTION DETAIL #4-6 **ROCK FILTER OUTLET** 



REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

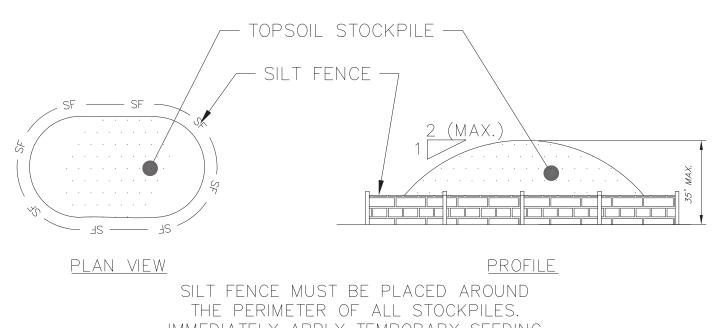
MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

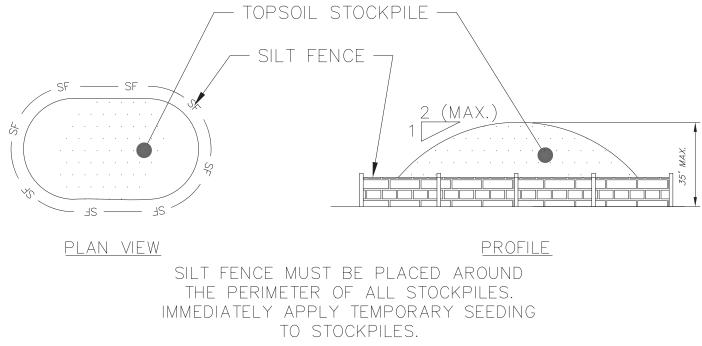
> STANDARD CONSTRUCTION DETAIL #3-1 **ROCK CONSTRUCTION ENTRANCE**

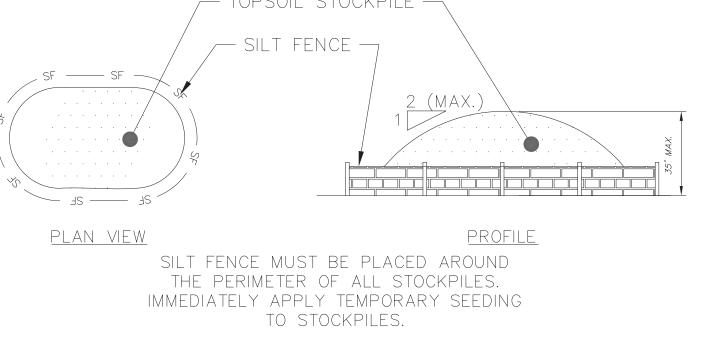
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STRUCTION DETAIL 56 ASHBOURNE D

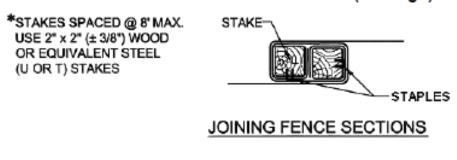
#### TOPSOIL STOCKPILE DETAIL

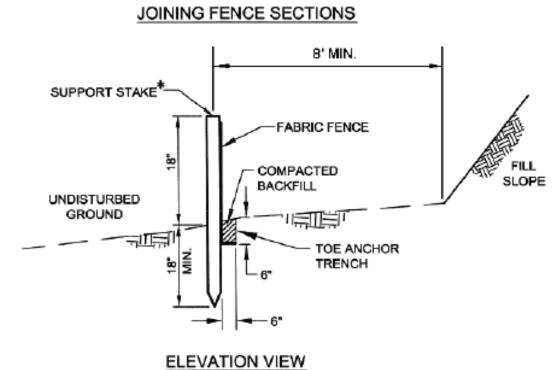






#### STANDARD CONSTRUCTION DETAIL # 4-7 Standard Silt Fence (18" High)





PA DEP

Fabric shall have the minimum properties as shown in Table 4.3.

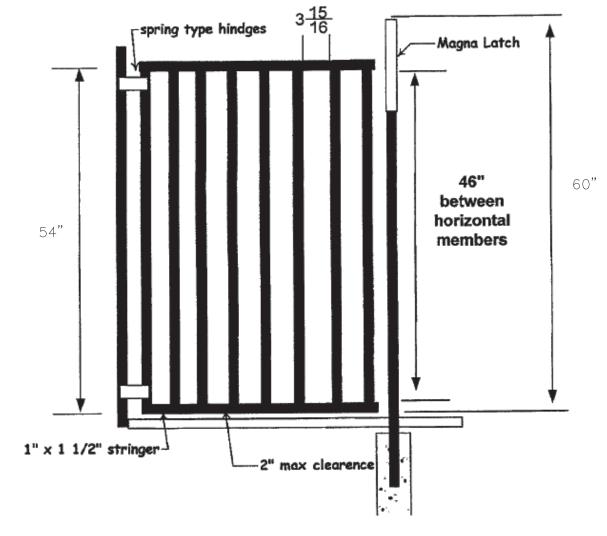
Fabric width shall be 30" minimum. Stakes shall be hardwood or equivalent steel (U or T)

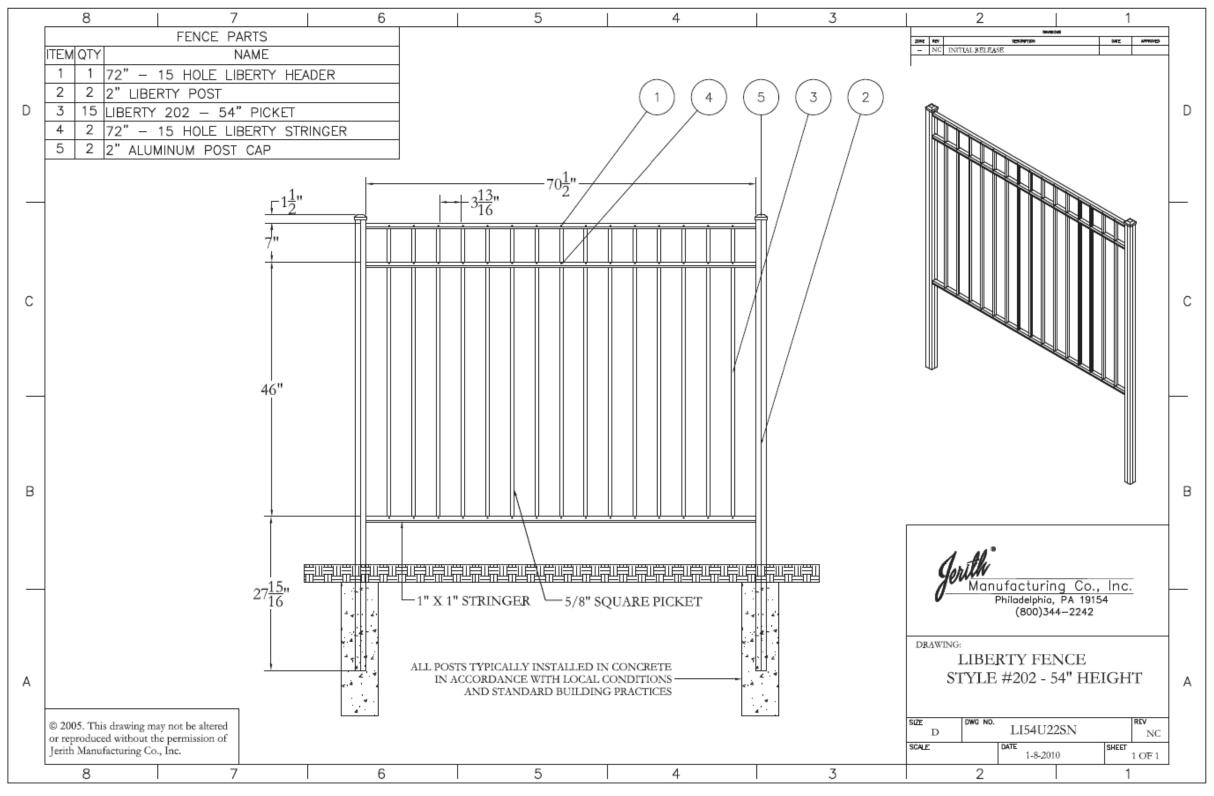
Silt fence shall be placed at level existing grade. Both ends of the fence shall be extended at least 8 feet up slope at 45 degrees to the main fence alignment (see Figure 4.1).

Sediment shall be removed when accumulations reach half the aboveground height of the

Any section of silt fence which has been undermined or topped shall be immediately replaced with a rock filter outlet (Standard Construction Detail # 4-6). Fence shall be removed and properly disposed of when tributary area is permanently stabilized.

# FENCE GATE DETAIL





#### STANDARD CONSTRUCTION DETAIL # 3-16 Pumped Water Filter Bag WELL VEGETATED, GRASSY AREA HEAVY DUTY LIFTING STRAPS ELEVATION VIEW Low volume filter bags shall be made from non-woven geotextile material sewn with high strength, double stitched "J" type seams. They shall be capable of trapping particles larger than 150 microns. High volume filter bags shall be made from woven geotextiles that meet the Test Method ASTM D-4884 Minimum Standard 60 lb/in Property Avg. Wide Width Strength ASTM D-4632 205 lb

110 lb

Mullen Burst ASTM D-3786 ASTM D-4355 UV Resistance AOS % Retained ASTM D-4751 A suitable means of accessing the bag with machinery required for disposal purposes shall be provided. Filter bags shall be replaced when they become 1/2 full of sediment. Spare bags shall be kept available for replacement of those that have failed or are filled. Bags shall be placed on straps to facilitate removal unless bags come with lifting straps already attached. Bags shall be located in well-vegetated (grassy) area, and discharge onto stable, erosion resistant areas. Where this is not possible, a geotextile underlayment and flow path shall be

ASTM D-4833

following standards:

Grab Tensile

Puncture

No downslope sediment barrier is required for most installations. Compost berm or compost filter sock shall be installed below bags located in HQ or EV watersheds, within 50 feet of any receiving surface water or where grassy area is not available.

and non-polluting material may be placed under the bag to reduce slope steepness.

provided. Bags may be placed on filter stone to increase discharge capacity. Bags shall not be placed on slopes greater than 5%. For slopes exceeding 5%, clean rock or other non-erodible