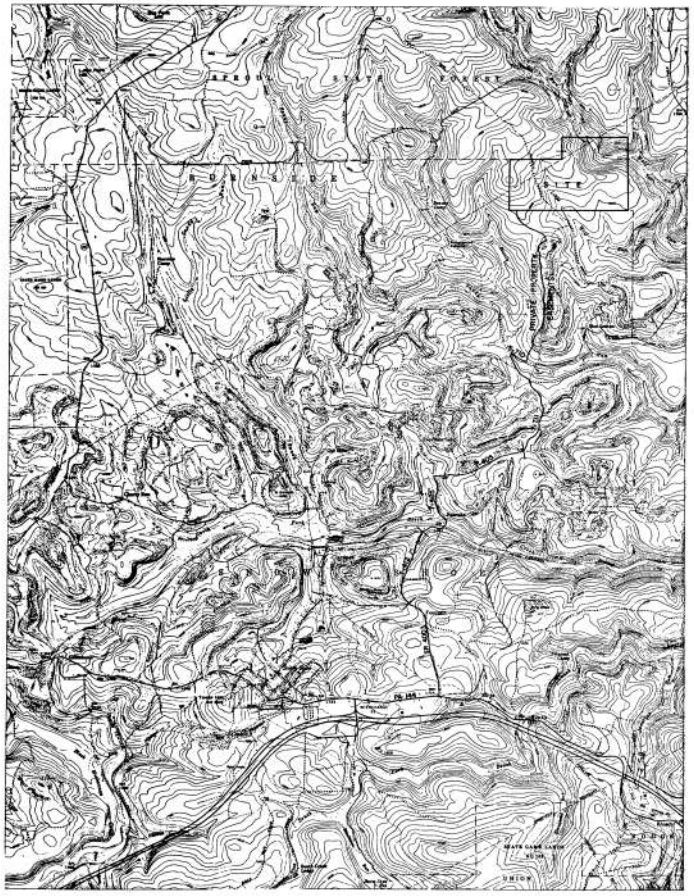


LOCATION MAP
SCALE: 1"=2000'

0 1000' 2000' 4000' 6000' 8000'

North

CENTRE COUNTY PLANNING COMMISSION APPROVAL ACKNOWLEDGEMENT

APPROVED BY THE CENTRE COUNTY PLANNING COMMISSION ON 6.29.95 19 95

SECRETARY

DIRECTOR

SNOW SHOE TOWNSHIP SUPERVISORS

APPROVED ON June 5 19 95

CHAIRMAN

SECRETARY

BURNSIDE TOWNSHIP SUPERVISORS

APPROVED ON June 7 19 95

CHAIRMAN

SECRETARY

SURVEYOR CERTIFICATION

I HEREBY CERTIFY THAT THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT.

WILSON FISHER, JR., P.E., P.L.S.

SEAL

RECORDING CERTIFICATE

STATE OF PENNSYLVANIA, COUNTY OF CENTRE

RECORDED ON THIS 30 DAY OF June 19 95 IN THE RECORDER OF DEEDS OFFICE, IN Plat BOOK VOL. 50, PAGE 10-14

WITNESS MY HAND AND SEAL ON THE DAY AND DATE WRITTEN ABOVE.

RECORDER OF DEEDS

SHEET 1 OF 5: COVER SHEET/ LOCATION MAP

SHEET 2 OF 5: ACCESS ROAD/ SITE NOTES

SHEET 3 OF 5: PLAN VIEW

SHEET 4 OF 5: EROSION AND SEDIMENTATION CONTROL

SHEET 5 OF 5: EROSION AND SEDIMENTATION CONTROL (CAMP SITES)

CERTIFICATE OF OWNERSHIP "FEE SIMPLE"

50 of 10

ON THIS, THE 1st DAY OF May 1995 BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED NANCY J. CARLIN, WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT SHE IS THE "FEE SIMPLE" OWNER OF THE PROPERTY SHOWN ON THE PLAN, AND THAT SHE ACKNOWLEDGES THE SAME TO BE HER ACT AND PLAN, AND DESIRES THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

NANCY J. CARLIN

NOTARY PUBLIC

CERTIFICATE OF OWNERSHIP "EQUITABLE"

ON THIS, THE 1st DAY OF May 1995 BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED MICHAEL R. TALAPKA, MANAGING PARTNER, WOLF RUN DEVELOPMENT, L.P., AND NANCY J. CARLIN, LIMITED PARTNER OF SAME, WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT THEY ARE THE "EQUITABLE" OWNERS OF I.E. PROPERTY SHOWN ON THE PLAN, AND THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

MICHAEL R. TALAPKA

NANCY J. CARLIN

NOTARY PUBLIC

BURNSIDE TOWNSHIP SEWAGE DISPOSAL REVIEW

BASED ON THE RESULTS OF SOIL LOG PROFILES PERFORMED ON THIS PROPERTY IN COMPLIANCE WITH THE PENNSYLVANIA SEWAGE FACILITIES ACT, NO. 537, AS AMENDED BY ACT 208, CHAPTER 73, THE AREAS AROUND TEST PIT NUMBERS

B28, B3, B4, B7, B8, B9, B12, B-15, B-16

ARE GENERALLY SUITABLE FOR ON-LOT SUBSURFACE SEWAGE DISPOSAL.

THE AREAS AROUND TEST PIT NUMBERS

B11, B13, B14, B17, B18

ARE GENERALLY UNSUITABLE FOR ANY TYPE OF ON-LOT SUBSURFACE SEWAGE DISPOSAL.

THIS IS NOT A GUARANTEE THAT A PERMIT WILL OR WILL NOT BE ISSUED FOR ANY LOT OR PARCEL. THE MUNICIPAL SEWAGE ENFORCEMENT OFFICER (S.E.O.) MUST BE CONTACTED TO CONDUCT FURTHER TESTS, AS NECESSARY, TO DETERMINE PERMIT ISSUANCE.

6/5/95 DATE

Ralph M. Hanck #502 MUNICIPAL SEWAGE ENFORCEMENT OFFICER

SNOW SHOE TOWNSHIP SEWAGE DISPOSAL REVIEW

BASED ON THE RESULTS OF SOIL LOG PROFILES PERFORMED ON THIS PROPERTY IN COMPLIANCE WITH THE PENNSYLVANIA SEWAGE FACILITIES ACT, NO. 537, AS AMENDED BY ACT 208, CHAPTER 73, THE AREAS AROUND PIT NUMBERS

4, 5, 6, 8, 11, 12, 21, 23, 24, 25, 43, 44, 50, 51, 52, 54, 58, 59, 60, 61, 62, 63, 66, 67, 68, 69, 70, 72, 73

ARE GENERALLY SUITABLE FOR ON-LOT SUBSURFACE SEWAGE DISPOSAL.

THE AREAS AROUND TEST PIT NUMBERS

3, 7, 9, 10, 13, 22, 26, 42, 46

ARE GENERALLY UNSUITABLE FOR ANY TYPE OF ON-LOT SUBSURFACE SEWAGE DISPOSAL.

THIS IS NOT A GUARANTEE THAT A PERMIT WILL OR WILL NOT BE ISSUED FOR ANY LOT OR PARCEL. THE MUNICIPAL SEWAGE ENFORCEMENT OFFICER (S.E.O.) MUST BE CONTACTED TO CONDUCT FURTHER TESTS, AS NECESSARY, TO DETERMINE PERMIT ISSUANCE.

6-12-95 DATE

Stanley J. Wallace #1798 MUNICIPAL SEWAGE ENFORCEMENT OFFICER

Cover Sheet/ Location Map

DATE	REVISION	BY	DATE	REVISION	BY

CHANGES/REVISIONS MADE BY

APPROVED Wilson Fisher JR. DATE 6/1/95

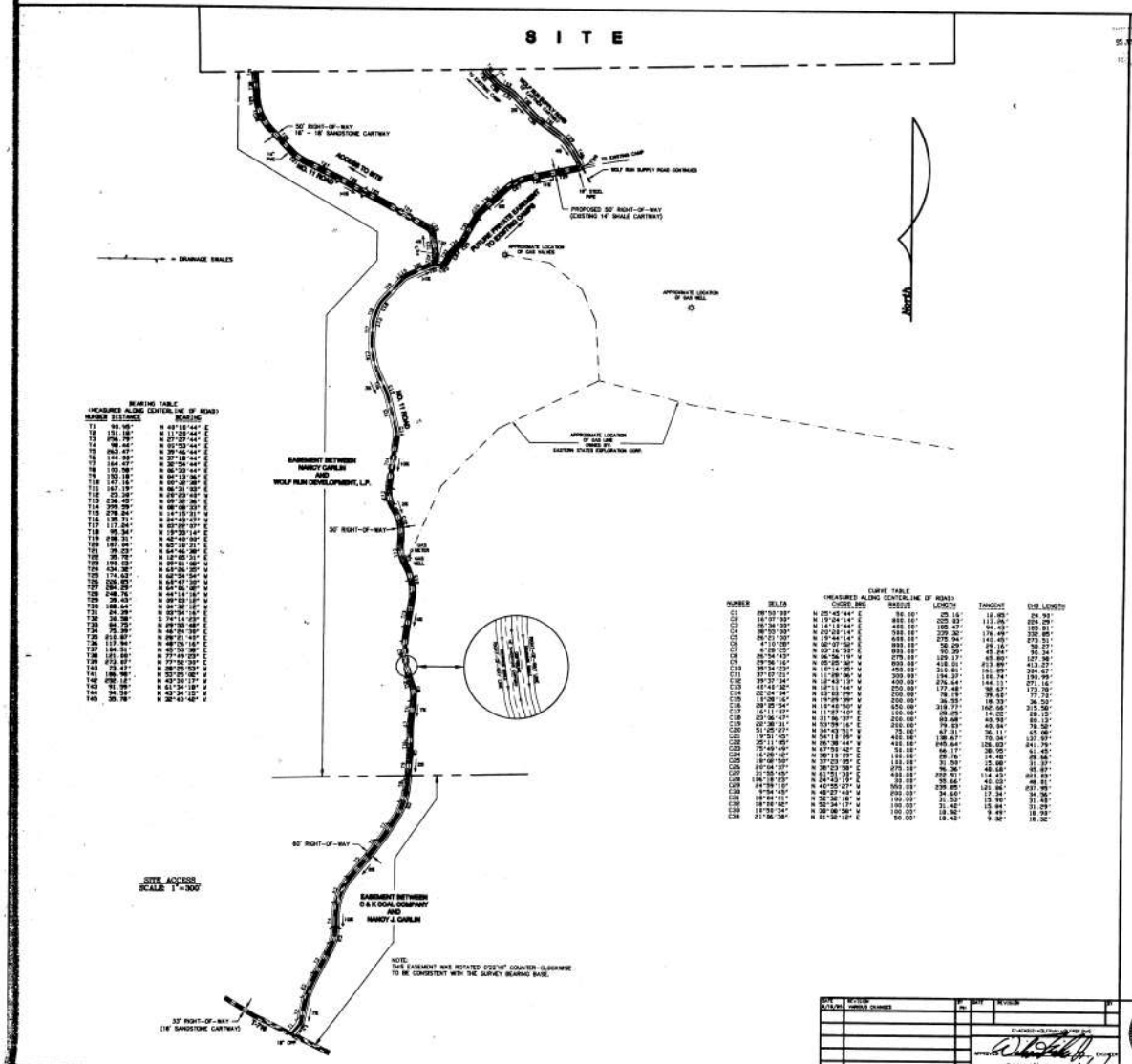
REF. NO. 2VWWE 48-9

HESS & FISHER ENGINEERS, INC.
CONSULTING ENGINEERS & GEOLOGISTS
98 NORTH SECOND STREET
CLEARFIELD, PA. 16830 814-765-7541

DRAWN BY PH	DATE 5/1/95	FILE NO.
CHECKED BY WF	SCALE AS SHOWN	JOB NO.
SHEET 1	OF 5	P.O. NO.

Final Site Plan
Wolf Run Camps
Subdivision No.1
Snow Shoe and Burnside Townships
Centre County

BK-50PG-10 [redacted]



BEARING TABLE
(MEASURED ALONG CENTER LINE OF ROAD)

NUMBER	DISTANCE	BEARING
T1	94.16'	N 49°18'44" E
T2	151.18'	N 41°58'44" E
T3	276.79'	N 27°27'44" E
T4	98.42'	N 50°53'44" E
T5	263.47'	N 39°46'44" E
T6	144.65'	N 27°18'44" E
T7	164.47'	N 30°54'44" E
T8	153.58'	N 56°33'44" E
T9	150.18'	N 64°13'56" E
T10	147.16'	N 50°40'56" E
T11	167.19'	N 36°21'33" E
T12	167.19'	N 36°21'33" E
T13	238.49'	N 49°02'33" E
T14	299.29'	N 68°08'33" E
T15	279.24'	N 14°15'33" E
T16	135.71'	N 24°43'27" W
T17	77.94'	N 60°08'27" W
T18	98.34'	N 19°35'14" E
T19	218.31'	N 42°49'00" E
T20	197.64'	N 65°16'31" E
T21	35.23'	N 54°46'36" E
T22	39.03'	N 18°05'31" E
T23	139.02'	N 29°06'00" W
T24	134.30'	N 68°26'25" W
T25	174.62'	N 62°24'25" W
T26	206.23'	N 64°41'25" W
T27	206.23'	N 64°41'25" W
T28	248.76'	N 44°14'25" W
T29	39.43'	N 09°03'18" W
T30	188.64'	N 04°38'18" W
T31	64.99'	N 03°54'16" E
T32	30.38'	S 74°14'23" E
T33	94.73'	N 49°55'48" E
T34	75.39'	N 46°04'39" E
T35	215.67'	N 69°21'45" E
T36	117.16'	N 48°35'18" E
T37	194.51'	N 49°53'38" E
T38	173.42'	N 77°16'03" E
T39	273.47'	N 87°06'03" E
T40	73.47'	N 87°06'03" E
T41	186.96'	N 53°25'00" E
T42	292.16'	N 43°36'13" W
T43	75.34'	N 61°32'00" W
T44	94.59'	N 43°34'15" W
T45	35.78'	N 32°43'42" W

CURVE TABLE
(MEASURED ALONG CENTER LINE OF ROAD)

NUMBER	DELTA	CHORD BRG	RADIUS	LENGTH	TANGENT	CHD LENGTH
C1	88°50'33"	N 25°45'44" E	16.00'	25.15'	15.85'	24.93'
C2	16°07'33"	N 19°24'44" E	800.00'	225.03'	113.26'	224.29'
C3	06°34'33"	N 14°15'44" E	400.00'	105.47'	54.43'	105.21'
C4	38°00'33"	N 23°23'14" E	500.00'	339.30'	176.49'	332.85'
C5	26°21'33"	N 19°44'14" E	600.00'	275.94'	140.45'	273.51'
C6	4°10'33"	N 02°07'58" E	800.00'	58.29'	29.16'	58.27'
C7	4°28'25"	N 02°16'58" E	800.00'	90.39'	45.24'	90.34'
C8	24°54'43"	N 06°56'19" W	275.00'	129.17'	65.80'	127.98'
C9	39°34'25"	N 05°25'38" W	800.00'	418.01'	213.99'	413.27'
C10	37°34'25"	N 10°16'20" W	450.00'	210.61'	108.89'	208.67'
C11	37°07'23"	N 10°34'05" W	300.00'	194.37'	100.74'	190.95'
C12	39°37'34"	N 18°43'19" W	250.00'	173.44'	90.11'	171.16'
C13	43°43'34"	N 18°11'14" W	250.00'	190.78'	100.63'	186.19'
C14	20°24'54"	N 03°03'09" W	200.00'	71.19'	36.00'	70.79'
C15	19°38'15"	N 19°29'19" W	200.00'	68.55'	34.67'	68.22'
C16	28°12'54"	N 15°48'50" W	650.00'	319.77'	162.56'	316.58'
C17	1°41'11"	N 11°57'49" W	150.00'	4.41'	2.21'	4.41'
C18	23°36'47"	N 31°06'33" E	200.00'	82.40'	41.79'	81.83'
C19	22°38'31"	N 53°39'16" E	200.00'	79.03'	40.04'	78.56'
C20	51°25'27"	N 84°43'53" W	75.00'	67.31'	36.11'	65.08'
C21	19°51'45"	N 54°18'09" W	400.00'	138.67'	70.04'	137.97'
C22	35°41'05"	N 66°38'44" W	400.00'	249.14'	128.82'	245.79'
C23	7°14'05"	N 63°03'32" E	50.00'	63.17'	38.95'	61.45'
C24	16°08'49"	N 37°03'09" E	150.00'	28.76'	14.48'	28.66'
C25	16°08'50"	N 37°03'09" E	150.00'	31.50'	15.88'	31.27'
C26	20°04'37"	N 38°23'58" E	275.00'	96.37'	48.68'	95.87'
C27	31°55'45"	N 61°51'38" E	400.00'	222.91'	114.48'	220.03'
C28	106°18'23"	N 24°43'19" E	30.00'	55.64'	48.02'	48.02'
C29	44°39'15"	N 40°55'23" W	500.00'	238.85'	121.86'	237.95'
C30	9°54'45"	N 48°27'43" W	200.00'	34.60'	17.34'	34.56'
C31	18°44'51"	N 52°38'18" W	100.00'	31.53'	15.90'	31.40'
C32	18°58'15"	N 52°34'17" W	100.00'	31.42'	15.84'	31.29'
C33	11°52'34"	N 38°08'56" W	100.00'	18.92'	9.48'	18.93'
C34	21°56'36"	N 61°58'16" E	50.00'	19.42'	9.82'	19.32'

50 of 11

GENERAL SITE NOTES

1. FLOOD PLAIN INFORMATION TAKEN FROM FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, SNOW SHOE TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA, PANEL 25 OF 50, COMMUNITY-PANEL NUMBER 420198 0025 B, JUNE 16, 1988.

2. THERE ARE NO EXISTING ELECTRIC, WATER, TELEPHONE, OR SEWER LINES ON OR ADJACENT TO THE TRACT.

3. THERE ARE NO PROPOSED UTILITIES.

4. WOLF RUN IS DESIGNATED "RUNBY" ACCORDING TO THE NATIONAL WETLANDS INVENTORY MAP.

5. THE TOPOGRAPHY AND THE TOWNSHIP LINE ARE BASED UPON THE SNOW SHOE, PA. 7.5 MINUTE QUADRANGLE, PHOTOINSPECTED, 1983.

6. CONTOUR INTERVAL IS 20 FEET.

7. THE EXISTING ACCESS ROAD HAS A 16' - 18' SANDSTONE CARTWAY. THE EXISTING INTERNAL ROADS HAVE A 16' - 18' SANDSTONE CARTWAY WITH THE EXCEPTION OF WOLF RUN SUPPLY ROAD WHICH HAS A 10' EARTHEN CARTWAY.

8. THERE WILL BE 5' PEDESTRIAN EASEMENTS (NORTHEASTERN PORTION OF SITE) UP TO WOLF RUN AND ALONG BOTH SIDES OF WOLF RUN.

9. ACCESS TO THE SITE WILL BE: FROM I-80, EXIT 23, S.R. 0144 EAST, S.R. 4003 NORTH, T-412 NORTH, T-406 NORTH, T-711 NORTH, T-710 EAST, THEN ACROSS PRIVATE LAND BY WAY OF EASEMENTS BETWEEN C & K COAL COMPANY & NANCY J. CARLIN, AND NANCY J. CARLIN AND WOLF RUN DEVELOPMENT, L.P.

10. THE PRIVATE RIGHT-OF-WAY AGREEMENTS FOR THE SITE ACCESS ROAD ARE RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF CENTRE COUNTY, IN RECORD BOOK 616, AT PAGE 814, AND RECORD BOOK 616 AT PAGE 816.

11. THE GAS PIPELINE IS OWNED BY EASTERN STATES EXPLORATION COMPANY.

12. THERE IS A PROPOSED 50' RIGHT-OF-WAY FOR THE EXISTING ROADS, HOWEVER, LOT DIMENSIONS AND AREAS ARE TAKEN TO THE CEN-TERLINE OF THE ROADS.

13. SOILS EXTENTS WERE BASED UPON, "SOIL SURVEY OF CENTRE COUNTY, PENNSYLVANIA", UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, ISSUED AUGUST, 1981. THERE ARE NO PRIME FARMLAND SOILS.

14. THE ENTIRE SITE IS WOODED, WITH THE EXCEPTION OF THE EXISTING PRIVATE ROAD CARTWAYS.

15. THE TRACT RESIDUE IS NOT APPROVED AS A "LOT OF RECORD", THEREFORE, BEFORE ANY TRANSFER OF OWNERSHIP AND/OR ADDITIONAL SUBDIVISION OR LAND DEVELOPMENT ACTIVITY, A PLAN MUST BE SUB-MITTED TO THE CENTRE COUNTY PLANNING COMMISSION FOR APPROVAL.

16. THE CENTRE COUNTY PLANNING COMMISSION REQUIREMENT FOR BUILDING SETBACK LINES IS 25 FEET FROM THE ESTABLISHED RIGHT-OF-WAY LINE. HOWEVER, WOLF RUN DEVELOPMENT L.P., AS PART OF ITS PROPOSED COVENANTS AND RESTRICTIONS, PLANS TO ADOPT BUILDING SETBACK REQUIREMENTS WHICH ARE, 150 FEET FROM ROAD CENTER LINE AND 100 FEET FROM ANY OTHER EXTERIOR LOT LINE.

17. NANCY J. CARLIN IS THE OWNER OF RECORD OF THE TRACT TO BE DEVELOPED AND THE TRACT REMAIN PER RECORD BOOK 701, PAGE 384. THERE IS A BOUNDARY LINE AGREEMENT BETWEEN NANCY J. CARLIN AND THE COMMONWEALTH OF PENNSYLVANIA RECORDED IN RECORD BOOK 388, PAGE 843. THIS AGREEMENT PERTAINS TO THE NORTHERN AND EASTERN BOUNDARIES.

18. NANCY J. CARLIN IS A LIMITED PARTNER OF WOLF RUN DEVELOPMENT, L.P. THEREFORE, SHE CAN BE CONSIDERED "EQUITABLE" OWNER AS WELL AS "RES IMPLY" OWNER OF THE TRACT TO BE DEVELOPED.

19. THE GAS WELLS ARE OWNED BY EASTERN STATES EXPLORATION COMPANY. THEY HAVE LIMITED ACCESS RIGHTS TO WOLF RUN RIDGE ROAD IN ORDER TO SERVICE TWO GAS WELLS, LOCATED AT THE NORTH CENTRAL PORTION OF THE SITE AND EAST OF THE EASTERN PROPERTY LINE, PER THE LEASE AGREEMENT BETWEEN EASTERN STATES EXPLORATION COMPANY AND RAY AND NANCY CARLIN, RECORD BOOK 476, PAGE 384. NOTE THAT THE ORIGINAL LEASE AGREEMENT WAS BETWEEN FELMONT OIL CORPORATION AND RAY AND NANCY CARLIN.

20. THE GAS LINES HAVE A 25 FOOT IMPLIED EASEMENT.

21. THE ROAD RIGHT-OF-WAY IS PRIVATE.

22. BASED ON THE LAND USE DESIGNATION AND PROPOSED DEVELOPMENT AND USE THEREOF (PER CENTRE COUNTY SUBDIVISION AND LAND DEVELOPMENT ORDINANCE, NO.3, ARTICLE IX), THE SUBDIVISION IS APPROVED FOR SEASONAL/RECREATION USE, ONLY. THE LOTS ARE NOT TO BE USED AS A "PRIMARY RESIDENCE" AND FOR USE OF NOT MORE THAN 180 DAYS PER CALENDAR YEAR, AS DEFINED IN THE PROPERTY OWNERS ASSOCIATION AGREEMENT AND CORRESPONDING DEED RESTRICTIONS AND PROTECTIVE COVENANTS. THESE DOCUMENTS ARE RECORDED IN THE CENTRE COUNTY RECORDER OF DEEDS OFFICE IN RECORD BOOK 616, PAGE 816.

23. PEDESTRIAN ACCESS EASEMENT: "THERE EASEMENTS EXIST FOR SEVERAL LOTS TO PA FOREST LAND PROVIDED BY A 30 FOOT WIDE PEDESTRIAN ACCESS EASEMENT ON THE PROPERTY LINES OR ALONG WOLF RUN. LOTS 27-31 ON SURVEYED PLAN 2 HAVE TWO ACCESS EASEMENTS RUNNING PARALLEL TO THE STREAM. THERE EXISTS A FINE (5) FOOT WIDE PEDESTRIAN EASEMENT ON EACH SIDE OF THE HIKING TRAIL ABOVE WOLF RUN AND AN EASEMENT TEN (10) FEET ON EACH SIDE OF THE STREAM BELOW TO ALLOW FOR FISHING OR HIKING THROUGH THESE TRACTS. CAMPING, HUNTING OR OTHER ACTIVITIES ARE NOT ALLOWED EXCEPT BY THE PROP-ERTY OWNERS, THEIR GUEST AND ASSIGNS." (TAKEN FROM THE COVENANTS AND RESTRICTIONS OF WOLF RUN CAMPS.)

24. ALTHOUGH NO EASEMENTS ARE RECORDED OR IMPLIED, ACTION ON THIS PLAN IS NOT MEANT TO NEGATE OR ALTER ANY RIGHTS OR RESPONSIBILITIES THAT ANY ADJOINER OR ANY OTHER PARTY MAY HAVE ACQUIRED CONCERNING THE EXISTING WOLF RUN SUPPLY ROAD SHOWN ON THIS PLAN.

DATE	REVISION	BY	DATE	REVISION	BY
5/15/95	HANDLE CHANGES				

APPROVED: 6/23/95

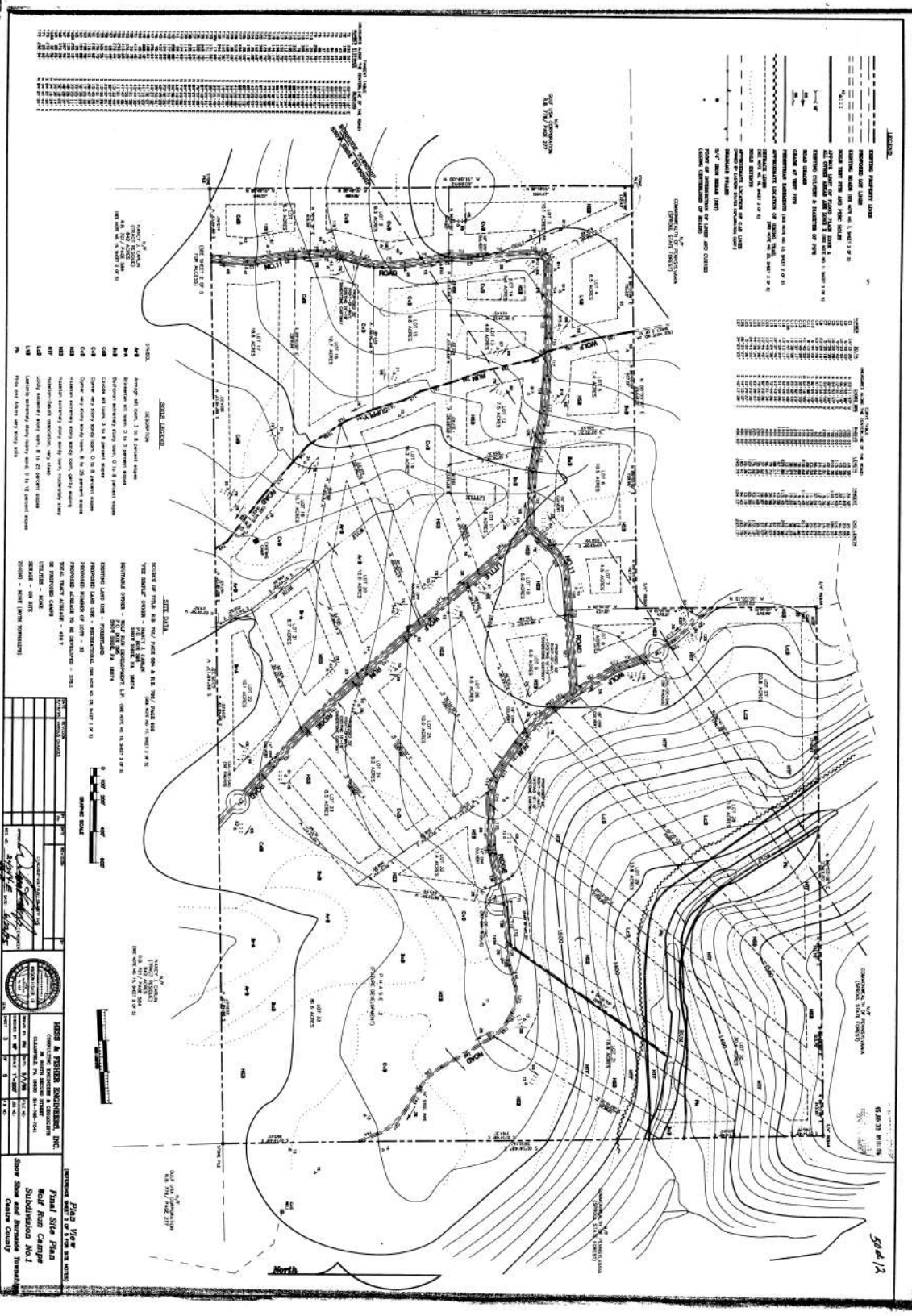
HESS & FISHER ENGINEERS, INC.
CONSULTING ENGINEERS & GEOLOGISTS
36 NORTH SECOND STREET
CLEARFIELD, PA. 16830 814-765-7541

DRAWN BY: PM	DATE: 5/1/95	FILE NO.	
CHECKED BY: RF	SCALE: AS SHOWN	JOB NO.	
SHEET 2 OF 3		FB NO.	

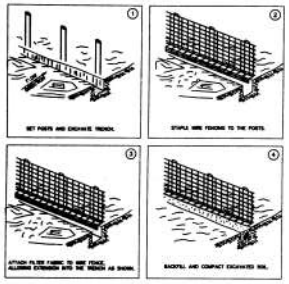
Access Road/ Site Notes

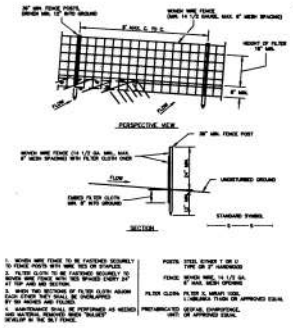
Final Site Plan
Wolf Run Camps
Subdivision No.1
Snow Shoe and Burnside Townships
Centre County

BK-50PG-11 [redacted]


LEGEND
SITE DATA
SITE LOCATION
SCALE
North
Final Site Plan
Wolf Run Camps
Subdivision No.1
Snow Shoe and Rush Townships
Centre County
HESS & FISHER ENGINEERS, INC.
CONSULTING ENGINEERS & ASSOCIATES
CLEARFIELD, PA. 16830
Plan View
50 of 12

BK-50 PG-12





INSTALLATION AND MAINTENANCE - STANDARDS AND SPECIFICATIONS

1. Filter fabric fence

a. Design standards:
General: Geotextile fabric (filter cloth) fence materials.

1. Filter fabric fence will be placed at level grade. Both ends of a fence section will be extended up the slope so that the bottom of the fence shall end at the top of the fence elevation.
2. Filter fabric fence will be designed to control runoff from drainage areas that do not exceed the maximum slope length of 250 feet.
3. 36" high fence shall be installed according to the details shown.

b. Design restrictions:

1. The formation of concentrated flows on the drainage slope above a filter fabric fence installation is not permitted. If concentrated flows do occur, direct slope stabilization measures must be employed to prevent such conditions.
2. Filter fabric fences will not be placed in any area of concentrated flows such as ditches, swales, channels, etc.
3. Filter fabric fences will not be used in areas where rock or rocky soils prevent the full and uniform anchoring of the fence toe.
4. Filter fabric material will not be placed across the entrance to pipes or culverts and will not be wrapped around the principal spillway structures of sediment traps or basins.

c. Installation:

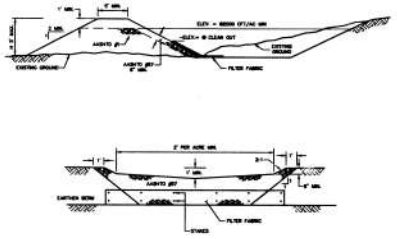
1. A trench will be plowed or otherwise excavated to the required depth with little, if any, disturbance to the downslope side of the trench. The bottom of the trench and the fence toe will be placed on a level grade. When it is necessary to cross small depressions, the trench bottom and fence top edge may deviate slightly from the level grade. Grades in such sections will not exceed one (1%) percent, nor will the deviation extend for more than 25 feet.
2. Fenceposts will be driven to the required depth below the existing ground surface, at specified intervals.
3. Stretch and fasten fabric to the upslope side of the fenceposts (if a reinforced section, fasten reinforcement mesh prior to fastening the fabric).
4. Where ends of fabric come together, they will be overlapped, folded and stapled to prevent sediment bypass.
5. The toe anchor will be backfilled and compacted to a density equal to surrounding soils.
6. If constructing a reinforced section, attach guy wires to fenceposts. Provisions should be made for easy loosening and removal of the guy wires to allow for access to perform maintenance work.

d. Maintenance:

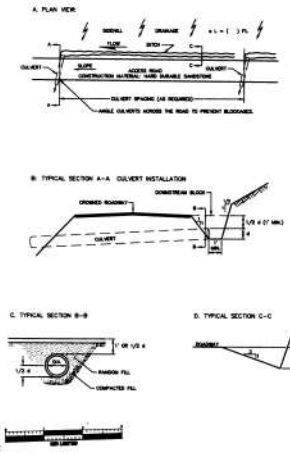
1. The fence installation should be inspected after every precipitation event. Any necessary repairs will be made immediately.
2. Accumulated sediments will be removed as required to keep the fence functional. In all cases, remove deposits where accumulations reach 1/2 the above ground height of the fence.
3. All undercutting or erosion of the toe anchor will be repaired immediately with compacted backfill materials.
4. Adhere to any manufacture's recommendations for replacing filter fabric fence due to weathering.

Roadway Layout, ditch design and stabilization:

1. Design - The standard roadway/culvert layout and standard ditch section are shown. Ditch capacity is adequate to convey 0.65 cfs/acre.
2. Road Drainage - Drainage, not contributing directly to a watercourse at the point of road crossing, must be conveyed in adequately sized and stabilized roadside ditches to cross drain culverts. Ditches and culverts will be sized to carry 1.0 cfs per tributary acre. Such culverts will be constructed in accordance to the illustrated standards.
3. Sediment traps may be designed to be incorporated into the inlet structure of culverts. Dimensions for sediment trap embankment spillway are shown below.



ROAD LAYOUT



Erosion and Sedimentation Control Plan
(TO BE APPLIED AT SPECIFIC LOCATIONS WITHIN THE DEVELOPMENT, AS NECESSARY, TO CONTROL EROSION)

HESS & FISHER ENGINEERS, INC.
CONSULTING ENGINEERS & GEOLOGISTS
36 NORTH SECOND STREET
CLEARFIELD, PA. 16830 814-765-7541

Final Site Plan
Wolf Run Camps
Subdivision No.1
Snow Shoe and Burnside Townships
Centre County

BK-50PG-13

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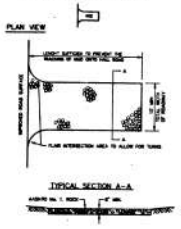
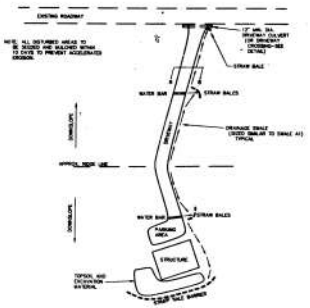
Sht 14

ROCK CONSTRUCTION ENTRANCE DETAILS





TYPICAL LOT
EROSION & SEDIMENTATION CONTROL STRUCTURES

NOTES:

1. Prior to entrance road construction, the contractor is to erect a stabilized construction entrance (refer to Erosion and Sediment Pollution Control Manual for design details). The contractor shall not track mud or other debris onto the subdivision roads.

2. During construction, place straw bales in the existing roadway ditch, downstream from the construction area.

3. The entrance road culverts are to have a minimum cover of 12" from the top of the pipe to the road grade. All culverts should be 12" in diameter.

4. The topsoil stockpiles should be protected with mulch and seeded according to specifications enclosed in erosion and sedimentation plan narrative.

5. All earth moving disturbances are to be minimized.

6. Water bars should be incorporated into the driveway structure in accordance with shown spacing requirements.

7. Drainage swales shall be installed on the downslope side of the driveway. Swales that exceed 5% slope shall be protected with straw bales at a maximum spacing of 100 feet and placed as shown on the detail drawing. Straw bales shall be placed in the swale where it intersects the roadway drainage ditch.

8. All disturbed areas, including the topsoil pile, shall be seeded and mulched in accordance with the narrative specifications of the plan.

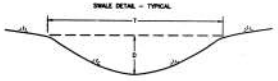
9. Refer to the Erosion and Sedimentation Control Plan narrative for further details.

10. If any new construction will encroach upon any stream, appropriate encroachment permits must be obtained.

11. Individual lot owners are to be responsible for appropriate erosion and sedimentation control measures. These measures are to include, as a minimum, the complete control of all erosion and/or sedimentation on their lot. Earth moving activities shall utilize straw bales to protect all disturbed earth until vegetation is established. Any new driveways are to be graded to divert surface runoff to grass or wooded areas.

12. The designer of this facility shall be held harmless from any liability resulting from the improper construction, neglected maintenance, or other improper uses for which these erosion and sedimentation control facilities were not designed.

SWALE DETAIL - TYPICAL



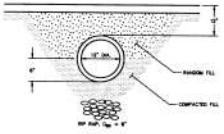
T = Top width, Reference "C"
D = Depth, Reference "C"
V2 = Velocity, Reference "C"
V1 = Velocity, Reference "D"

SOURCE: USDA - SCS ENGINEERING FIELD MANUAL
D FROM EXHIBIT 2-10
V1, V2, T & D FROM EXHIBIT 7-5

SWALE SIZE TABLE

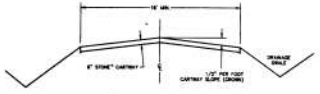
SWALE	LENGTH (FT.)	SLOPE (%)	Q (cfs)	V1 (fps)	V2 (fps)
A1	1300'	1.0%	5.0	2.0 1.5	2.0 1.5
A2	1300'	1.0%	6.7	2.0 1.6	2.0 1.5
B1	1200	1.0	1.1	2.0 1.6	2.0 1.5
B2	1200	1.0	6.7	2.0 1.7	2.0 1.5
B3	1200	1.0	1.3	2.0 1.6	2.0 1.5
C1	1100	2.0	2.0	2.0 1.6	2.0 1.5
C2	1100	2.0	1.0	2.0 1.6	2.0 1.5
C3	1100	2.0	1.0	2.0 1.6	2.0 1.5
D1	1200	2.0	0.8	2.0 1.4	2.0 1.0
D2	1200	2.0	1.4	2.0 1.5	2.0 1.0
D3	1200	2.0	1.4	2.0 1.5	2.0 1.0
E1	1000	2.0	1.1	2.0 1.5	2.0 0.8
E2	1000	2.0	1.6	2.0 1.5	2.0 0.8
F1	1000	2.0	1.0	2.0 1.5	2.0 0.8
F2	1000	2.0	1.7	2.0 1.6	2.0 0.7
G1	1000	2.0	1.0	2.0 1.5	2.0 0.6
G2	1000	2.0	1.6	2.0 1.6	2.0 0.6

TYPICAL DRIVEWAY CROSSING



NOTE: PROTECT EACH CULVERT INLET AND OUTLET WITH RIP RAP, Type "A", LENGTH 6', WIDTH NO LESS THAN DITCH BOTTOM

TYPICAL SECTION B-B'



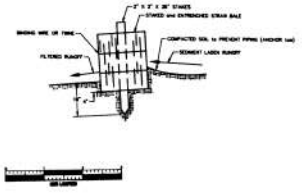
*ON SITE SANDSTONE, CRUSHED BY TRACKING IS WITH SIZER

WATER BARS

SPACING OF WATER BARS

ROAD GRADE %	SPACE BETWEEN WATER BARS (FT.)
2	250
5	135
10	80
15	60
20	45
25	40
30	35
35	30
40	30

CROSS-SECTION OF A STRAW BALE BARRIER



DATE	REVISION	BY	DATE	REVISION	BY

APPROVED: 3/10/95

HESS & FISHER ENGINEERS, INC.
CONSULTING ENGINEERS & GEOLOGISTS
30 NORTH SECOND STREET
CLEARFIELD PA 16830 814-765-7541

DRAWN BY:		DATE: 3/1/95	FILE NO:
CHECKED BY:		SCALE: NONE	JOB NO:
SHEET: 5	OF: 5		FILE NO:

Erosion and Sedimentation Control Details

Final Site Plan
Wolf Run Camps
Subdivision No.1

Snow Shoe and Burnside Townships
Centre County

BK-50PG-14 [redacted]