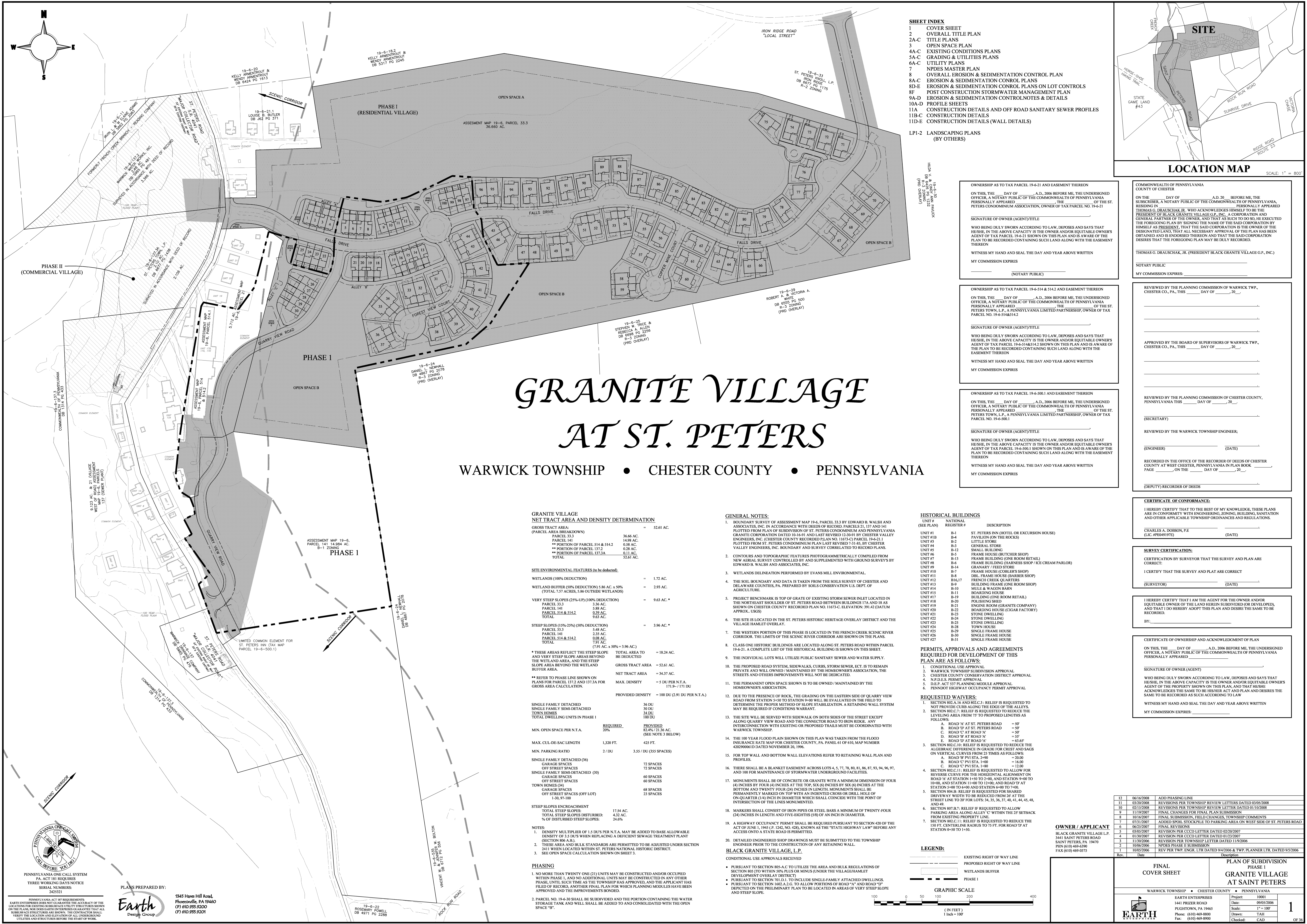




GRANITE VILLAGE AT ST. PETERS

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

GRANITE VILLAGE NET TRACT AREA AND DENSITY DETERMINATION

GROSS TRACT AREA (PARCEL AREA BREAKDOWN)	=	52.61 AC.
PARCEL 33.3	36.66 AC.	
PARCEL 141	14.98 AC.	
** PORTION OF PARCEL 514 & 514.2	0.58 AC.	
VALLEY ENGINEERS, INC. BOUNDARY AND SURVEY CORRELATED TO RECORD PLANS	0.28 AC.	
** PORTION OF PARCEL 137.3A	0.11 AC.	
TOTAL	52.61 AC.	

SITE ENVIRONMENTAL FEATURES (to be deleted)

WETLANDS (100% DEDUCTION)	=	1.72 AC.
WETLAND BUFFER (50% DEDUCTION) 5.86 AC. x 50%	=	2.93 AC.
(TOTAL 7.57 ACRES, 5.86 AC. OUTSIDE WETLANDS)		
VERY STEEP SLOPES (25%-UP) (100% DEDUCTION)	=	9.63 AC. *
PARCEL 33.3	3.36 AC.	
PARCEL 141	5.88 AC.	
PARCEL 514 & 514.2	0.39 AC.	
TOTAL	9.63 AC.	

STEEP SLOPES (15%-25%) (50% DEDUCTION)	=	3.96 AC. *
PARCEL 33.3	5.48 AC.	
PARCEL 141	2.55 AC.	
PARCEL 514 & 514.2	0.98 AC.	
TOTAL	7.91 AC.	

* THESE AREAS REFLECT THE STEEP SLOPE AND VERY STEEP SLOPE AREAS BEYOND THE WETLAND AREA, AND THE STEEP SLOPE AREA BEYOND THE WETLAND BUFFER AREA.	TOTAL AREA TO BE DEDUCTED	=	18.24 AC.
	GROSS TRACT AREA	=	52.61 AC.
	NET TRACT AREA	=	34.37 AC.
** REFER TO PHASE LINE SHOWN ON PLANS FOR PARCEL 137.2 AND 137.3A FOR GROSS AREA CALCULATION.	MAX. DENSITY	=	5 DU PER N.T.A.
	PROVIDED DENSITY	=	171.9 - 171 DU

SINGLE FAMILY DETACHED	36 DU
SINGLE FAMILY SEMI-DETACHED	30 DU
TOWN HOMES	34 DU
TOTAL DWELLING UNITS IN PHASE I	100 DU

MIN. OPEN SPACE PER N.T.A.	REQUIRED	PROVIDED
	20%	82.46% (21.24 AC.)
		(SEE NOTE 3 BELOW)
MAX. CUL-DE-SAC LENGTH	1,320 FT.	425 FT.
MIN. PARKING RATIO	2 / DU	3.55 / DU (355 SPACES)

SINGLE FAMILY DETACHED (36)	72 SPACES
GARAGE SPACES	72 SPACES
OFF STREET SPACES	60 SPACES
SINGLE FAMILY SEMI-DETACHED (30)	60 SPACES
GARAGE SPACES	60 SPACES
OFF STREET SPACES	60 SPACES
TOWN HOMES (34)	68 SPACES
GARAGE SPACES	68 SPACES
OFF STREET SPACES (OFF LOT)	23 SPACES
1-30, 97-100	

STEEP SLOPES ENCROACHMENT	17.54 AC.
TOTAL STEEP SLOPES	4.32 AC.
% OF DISTURBED STEEP SLOPES	24.6%

- NOTES:
- DENSITY MULTIPLIER OF 1.5 DUS PER N.T.A. MAY BE ADDED TO BASE ALLOWABLE DENSITY OF 3.5 DUS WHEN REPLACING A DEFICIENT SEWAGE TREATMENT PLANT (SECTION 806 A.B.).
 - THESE AREA AND BULK STANDARDS ARE PERMITTED TO BE ADJUSTED UNDER SECTION 2411 WHEN LOCATED WITHIN ST. PETERS NATIONAL HISTORIC DISTRICT.
 - SEE OPEN SPACE CALCULATION SHOWN ON SHEET 3.

PHASING

- NO MORE THAN TWENTY ONE (21) UNITS MAY BE CONSTRUCTED AND/OR OCCUPIED WITHIN PHASE I, AND NO ADDITIONAL UNITS MAY BE CONSTRUCTED IN ANY OTHER PHASE, UNTIL SUCH TIME AS THE TOWNSHIP HAS APPROVED, AND THE APPLICANT HAS FILED OF RECORD, ANOTHER FINAL PLAN FOR WHICH PLANNING MODULES HAVE BEEN APPROVED AND THE IMPROVEMENTS BONDED.
- PARCEL NO. 19-6-30 SHALL BE SUBDIVIDED AND THE PORTION CONTAINING THE WATER STORAGE TANK AND WELL SHALL BE ADDED TO AND CONSOLIDATED WITH THE OPEN SPACE "B".

GENERAL NOTES:

- BOUNDARY SURVEY OF ASSESSMENT MAP 19-6, PARCEL 33.3 BY EDWARD B. WALSH AND ASSOCIATES, INC. IN ACCORDANCE WITH DEEDS OF RECORD PARCELS 31.1, 137 AND 141. PLOTTED FROM PLAN OF SUBDIVISION OF ST. PETERS CONDOMINIUM AND PENNSYLVANIA GRANITE CORPORATION DATED 10-6-91 AND LAST REVISED 12-8-91 BY CHESTER VALLEY ENGINEERS, INC. (CHESTER COUNTY RECORDED PLAN NO. 11673-C) PARCEL 19-6-21.1. PLOTTED FROM ST. PETERS CONDOMINIUM PLAN LAST REVISED 7-31-85, BY CHESTER VALLEY ENGINEERS, INC. BOUNDARY AND SURVEY CORRELATED TO RECORD PLANS.
- CONTOURS AND TOPOGRAPHIC FEATURES PHOTOGRAMMETRICALLY COMPILED FROM AERIAL SURVEY CONTROLLED BY AND SUPPLEMENTED WITH GROUND SURVEYS BY EDWARD B. WALSH AND ASSOCIATES, INC.
- WETLANDS DELINEATION PERFORMED BY EVANS MILL ENVIRONMENTAL.
- THE SOIL BOUNDARY AND DATA IS TAKEN FROM THE SOILS SURVEY OF CHESTER AND DELAWARE COUNTIES, PA. PREPARED BY SOILS CONSERVATION U.S. DEPT. OF AGRICULTURE.
- PROJECT BENCHMARK IS TOP OF GRATE OF EXISTING STORM SEWER INLET LOCATED IN THE NORTHEAST SHOULDER OF ST. PETERS ROAD BETWEEN BUILDINGS 17A AND 18 AS SHOWN ON CHESTER COUNTY RECORDED PLAN NO. 11673-C. ELEVATION: 391.42 (DATUM APPROX. 1985).
- THE SITE IS LOCATED IN THE ST. PETERS HISTORIC HERITAGE OVERLAY DISTRICT AND THE VILLAGE HAMLET OVERLAY.
- THE WESTERN PORTION OF THIS PHASE IS LOCATED IN THE FRENCH CREEK SCENIC RIVER CORRIDOR. THE LIMITS OF THE SCENIC RIVER CORRIDOR ARE SHOWN ON THE PLANS.
- CLASS ONE HISTORIC BUILDINGS ARE LOCATED ALONG ST. PETERS ROAD WITHIN PARCEL 19-6-21. A COMPLETE LIST OF THE HISTORICAL BUILDING IS SHOWN ON THIS SHEET.
- THE INDIVIDUAL LOTS WILL UTILIZE PUBLIC SANITARY SEWER AND WATER SUPPLY.
- THE PROPOSED ROAD SYSTEM, SIDEWALKS, CURBS, STORM SEWER, ETC., IS TO REMAIN PRIVATE AND WILL OWNED/MAINTAINED BY THE HOMEOWNERS ASSOCIATION, THE STREETS AND OTHER IMPROVEMENTS WILL NOT BE DEDICATED.
- THE PERMANENT OPEN SPACE SHOWN IS TO BE OWNED/MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- DUE TO THE PRESENCE OF ROCK, THE GRADING ON THE EASTERN SIDE OF QUARRY VIEW ROAD FROM STATION 5+50 TO STATION 9+00 WILL BE EVALUATED IN THE FIELD TO DETERMINE THE PROPER METHOD OF SLOPE STABILIZATION. A RETAINING WALL SYSTEM MAY BE REQUIRED IF CONDITIONS WARRANT.
- THE SITE WILL BE SERVED WITH SIDEWALK ON BOTH SIDES OF THE STREET EXCEPT ALONG QUARRY VIEW ROAD AND THE CONNECTOR ROAD TO IRON RIDGE. ANY INTERCONNECTION WITH EXISTING OR PROPOSED TRAILS MUST BE COORDINATED WITH WARWICK TOWNSHIP.
- THE 100 YEAR FLOOD PLAIN SHOWN ON THIS PLAN WAS TAKEN FROM THE FLOOD INSURANCE RATE MAP FOR CHESTER COUNTY, PA. PANEL G1 OF G10, MAP NUMBER 4202000610 DATED NOVEMBER 20, 1996.
- FOR TOP WALL AND BOTTOM WALL ELEVATIONS REFER TO RETAINING WALL PLAN AND PROFILES.
- THERE SHALL BE A BLANKET EASEMENT ACROSS LOTS 4, 5, 7, 78, 80, 81, 86, 87, 93, 94, 96, 97, AND 100 FOR MAINTENANCE OF STORMWATER UNDERGROUND FACILITIES.
- MONUMENTS SHALL BE OF CONCRETE OR GRANITE WITH A MINIMUM DIMENSION OF FOUR (4) INCHES BY FOUR (4) INCHES AT THE TOP, SIX (6) INCHES BY SIX (6) INCHES AT THE BOTTOM AND TWENTY FOUR (24) INCHES IN LENGTH. MONUMENTS SHALL BE PERMANENTLY MARKED ON TOP WITH AN INDENTED CROSS OR DRILL HOLE OF THE ON-QUARTER (1/4) INCH IN DIAMETER WHICH SHALL COINCIDE WITH THE POINT OF INTERSECTION OF THE LINES MONUMENTED.
- A MARKERS SHALL CONSIST OF IRON PIPES OR STEEL BARS A MINIMUM OF TWENTY-FOUR (24) INCHES IN LENGTH AND FIVE-EIGHTHS (5/8) OF AN INCH IN DIAMETER.
- A HIGHWAY OCCUPANCY PERMIT SHALL BE REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P. 1242, NO. 428), KNOWN AS THE "STATE HIGHWAY LAW" BEFORE ANY ACCESS ONTO A STATE ROAD IS PERMITTED.
- DETAILED ENGINEERED SHOP DRAWINGS MUST BE SUBMITTED TO THE TOWNSHIP ENGINEER PRIOR TO THE CONSTRUCTION OF ANY RETAINING WALL.

BLACK GRANITE VILLAGE, L.P.

CONDITIONAL USE APPROVALS RECEIVED

- PURSUANT TO SECTION 805-A.C. TO UTILIZE THE AREA AND BULK REGULATIONS OF SECTION 805 (TO WITHIN 50% PLUS OR MINUS UNDER THE VILLAGE/HAMLET DEVELOPMENT OVERLAY DISTRICT).
- PURSUANT TO SECTION 101.1, TO INCLUDE SINGLE-FAMILY ATTACHED DWELLINGS, PURSUANT TO SECTION 1602 A.2.C. TO ALLOW PORTIONS OF ROAD "A" AND ROAD "D" DEPICTED ON THE PRELIMINARY PLAN TO BE LOCATED IN AREAS OF VERY STEEP SLOPE AND STEEP SLOPE.

SHEET INDEX

- COVER SHEET
- OVERALL TITLE PLAN
- TITLE PLANS
- OPEN SPACE PLAN
- EXISTING CONDITIONS PLANS
- GRADING & UTILITIES PLANS
- UTILITY PLANS
- NPDES MASTER PLAN
- OVERALL EROSION & SEDIMENTATION CONTROL PLAN
- EROSION & SEDIMENTATION CONTROL PLANS
- EROSION & SEDIMENTATION CONTROL PLANS ON LOT CONTROLS
- POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
- EROSION & SEDIMENTATION CONTROL NOTES & DETAILS
- PROFILE SHEETS
- CONSTRUCTION DETAILS AND OFF ROAD SANITARY SEWER PROFILES
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS (WALL DETAILS)

- LPI-2 LANDSCAPING PLANS
(BY OTHERS)

19-6-30
PARCEL 33.3
DB 4857 PG 2078
R-3 ZONING
(PRO OVERLAY)

19-6-20
ROBERT A. & VICTORIA A.
DB 4857 PG 2078
R-3 ZONING
(PRO OVERLAY)

19-6-25
STEPHEN W. PRICE &
ALLEN REBECCA
DB 4857 PG 2078
R-3 ZONING
(PRO OVERLAY)

19-6-24
DANIEL L. KEMMALL
DB 4857 PG 2078
R-3 ZONING
(PRO OVERLAY)

19-6-21
LOUISE B. BUTLER
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

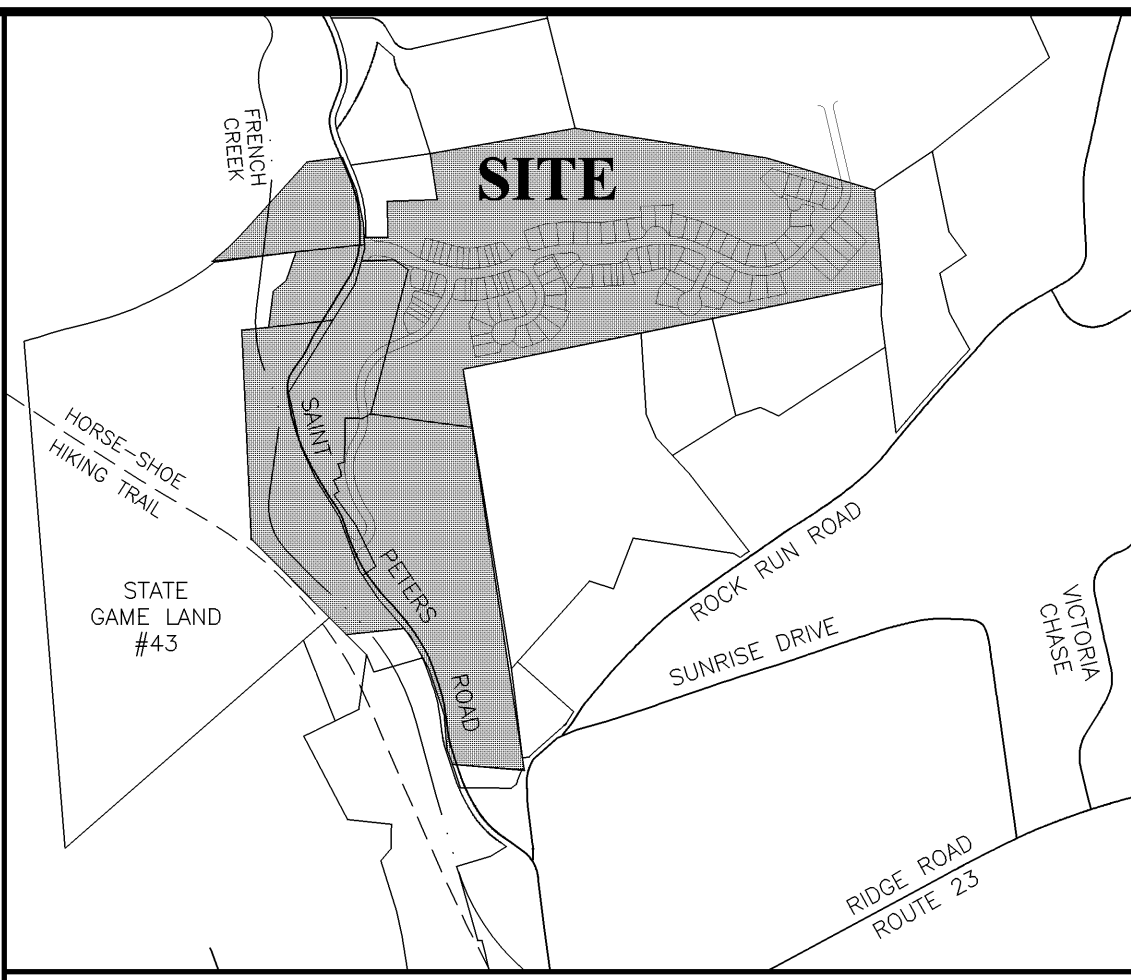
19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817

19-6-11
PRO. & CON. BOUND.
DB 4624 PG 1817



LOCATION MAP

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF CHESTER

ON THIS, THE _____ DAY OF _____, A.D. 20____, BEFORE ME, THE
SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA,
RESIDING IN _____, PERSONALLY APPEARED
THOMAS G. DRAUSCHAK, JR., WHO ACKNOWLEDGES HIMSELF TO BE THE
PRESIDENT OF BLACK GRANITE VILLAGE G.P., INC., A CORPORATION AND
GENERAL PARTNER OF THE OWNER, AND THAT AS SUCH TO DO SO, HE EXECUTED
THE FOREGOING PLAN BY SIGNING THE NAME OF THE SAID CORPORATION BY
HIMSELF AS PRESIDENT, THAT THE SAID CORPORATION IS THE OWNER OF THE
DESIGNATED LAND, THAT ALL NECESSARY APPROVAL OF THE PLAN HAS BEEN
OBTAINED AND IS ENDORSED THEREON AND THAT THE SAID CORPORATION
DESIRES THAT THE FOREGOING PLAN MAY BE DULY RECORDED.

THOMAS G. DRAUSCHAK, JR. (PRESIDENT BLACK GRANITE VILLAGE G.P., INC.)
NOTARY PUBLIC
MY COMMISSION EXPIRES: _____

REVIEWED BY THE PLANNING COMMISSION OF WARWICK TWP.,
CHESTER CO., PA., THIS _____ DAY OF _____, 20____.

APPROVED BY THE BOARD OF SUPERVISORS OF WARWICK TWP.,
CHESTER CO., PA., THIS _____ DAY OF _____, 20____.

REVIEWED BY THE PLANNING COMMISSION OF CHESTER COUNTY,
PENNSYLVANIA THIS _____ DAY OF _____, 20____.

(SECRETARY)
REVIEWED BY THE WARWICK TOWNSHIP ENGINEER:
(ENGINEER) _____ (DATE) _____

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF CHESTER
COUNTY AT WEST CHESTER, PENNSYLVANIA IN PLAN BOOK _____
PAGE _____, ON THE _____ DAY OF _____, 20____.

(DEPUTY) RECORDER OF DEEDS

CERTIFICATE OF CONFORMANCE:
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THESE PLANS
ARE IN CONFORMITY WITH ENGINEERING, ZONING, BUILDING, SANITATION
AND OTHER APPLICABLE TOWNSHIP ORDINANCES AND REGULATIONS.

CHARLES A. DOBSON, P.E.
(LIC. #P049197E) (DATE) _____

SURVEY CERTIFICATION:
CERTIFICATION BY SURVEYOR THAT THE SURVEY AND PLAN ARE
CORRECT:
I CERTIFY THAT THE SURVEY AND PLAT ARE CORRECT

(SURVEYOR) _____ (DATE) _____

I HEREBY CERTIFY THAT I AM THE AGENT FOR THE OWNER AND/OR
EQUITABLE OWNER OF THE LAND HEREIN SUBDIVIDED (OR DEVELOPED),
AND THAT I DO HEREBY ADOPT THIS PLAN AND DESIRE THE SAME TO BE
RECORDED.

BY: _____

CERTIFICATE OF OWNERSHIP AND ACKNOWLEDGMENT OF PLAN
ON THIS, THE _____ DAY OF _____, A.D. 2006 BEFORE ME, THE UNDERSIGNED
OFFICER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA
PERSONALLY APPEARED

SIGNATURE OF OWNER (AGENT)

WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT
HE/SH/IE, IN THE ABOVE CAPACITY IS THE OWNER AND/OR EQUITABLE OWNER'S
AGENT OF THE PROPERTY SHOWN ON THIS PLAN, AND THAT HE/SH/IE
ACKNOWLEDGES THE SAME TO BE HIS/HER ACT AND PLAN AND DESIRES THE
SAME TO BE RECORDED AS SUCH ACCORDING TO LAW

WITNESS MY HAND AND SEAL THE DAY AND YEAR ABOVE WRITTEN
MY COMMISSION EXPIRES: _____

OWNER / APPLICANT
BLACK GRANITE VILLAGE L.P.
341 SAINT PETERS ROAD
SAINT PETERS, PA. 19470
PHN (610) 469-6390
FAX (610) 469-0575

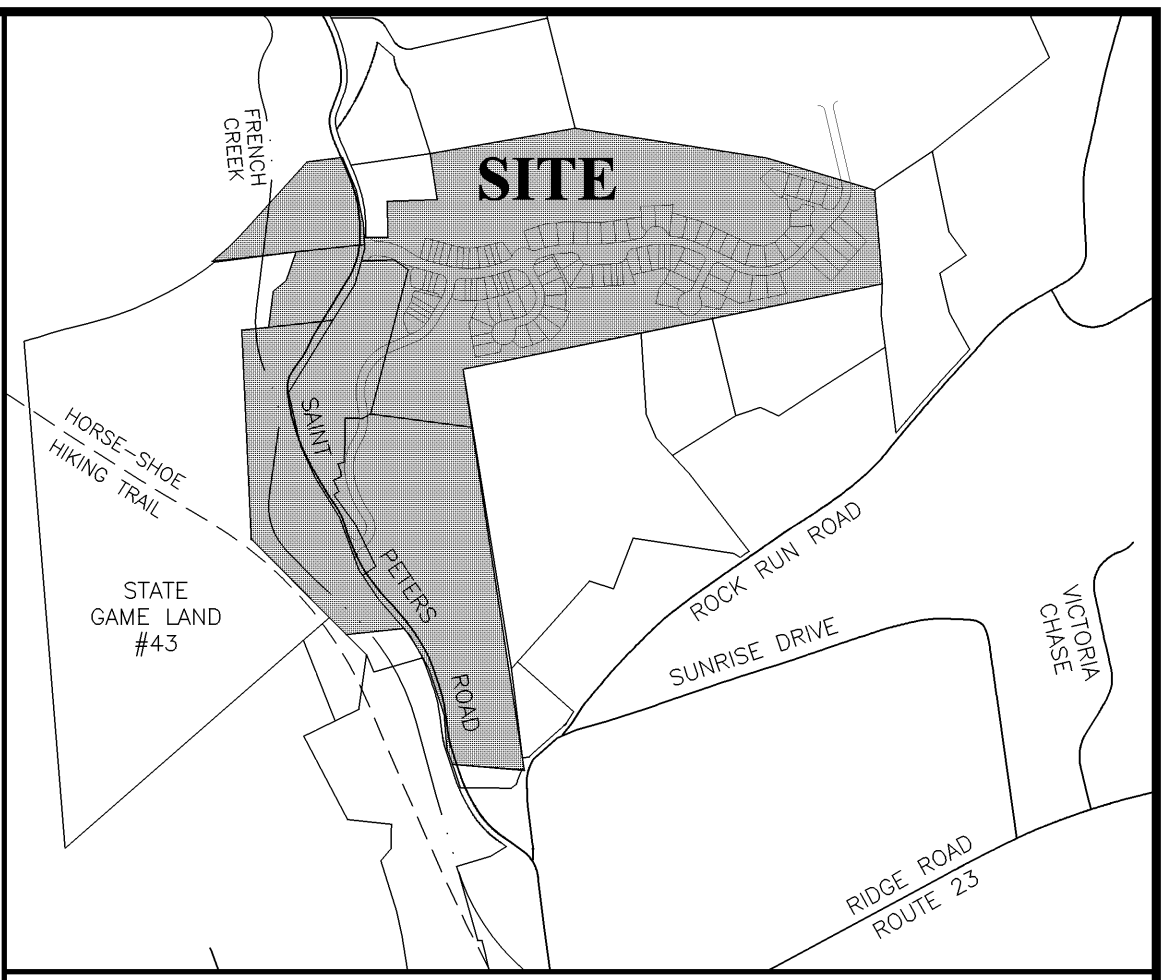
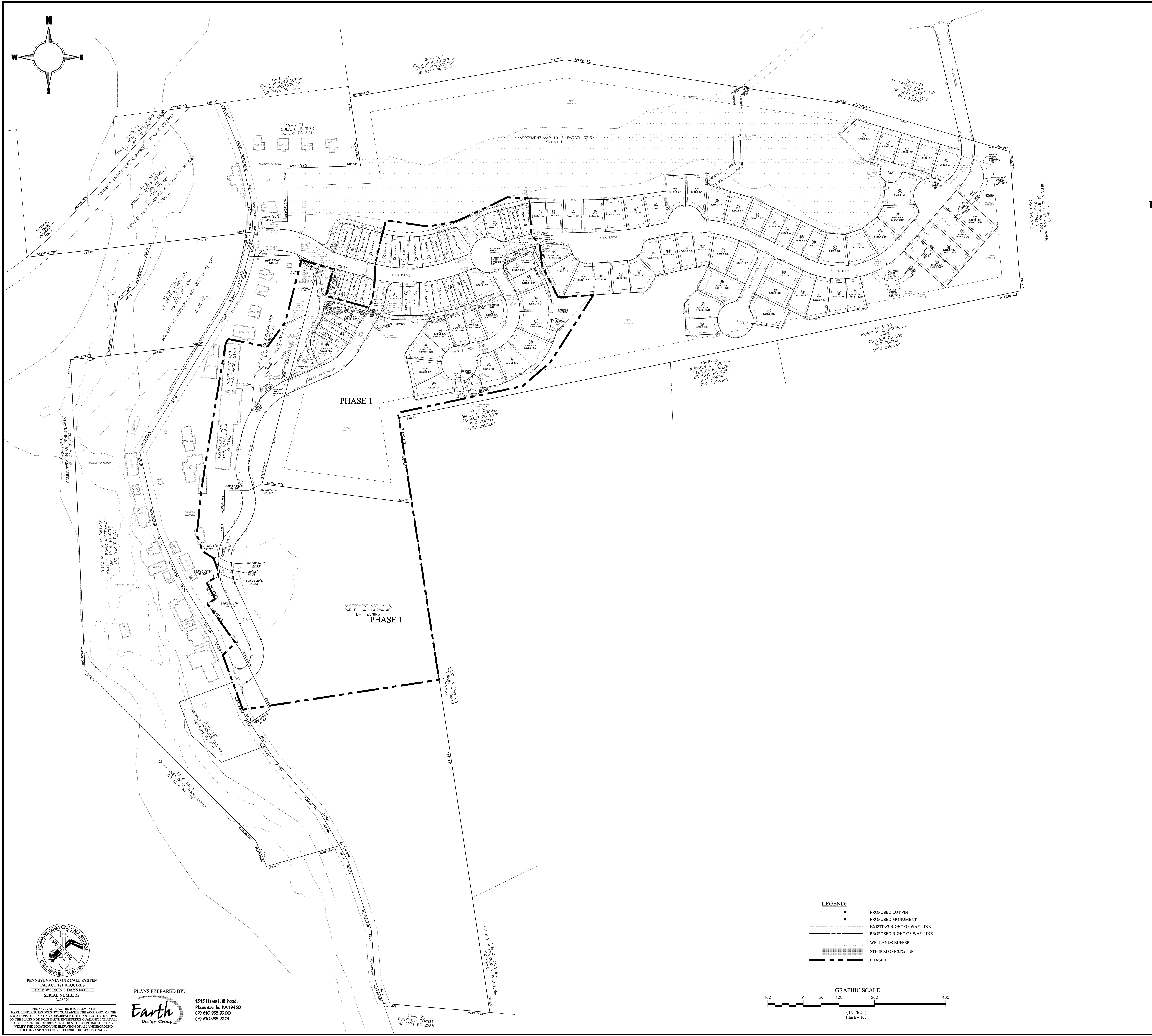
Rev. _____ Date _____ Description _____

12 06/16/2008 ADD PHASING LINE
11 02/20/2008 REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10 02/15/2008 REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9 11/19/2007 FINAL CHANGES FOR FINAL PLAN SUBMISSION
8 10/16/2007 FINAL SUBMISSION, TOWNSHIP COMMENTS
7 07/31/2007 ADDED SWOT SKETCH TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6 06/25/2007 FINAL REVISIONS
5 03/05/2007 REVISION PER CCOD LETTER DATED 02/20/2007
4 01/30/2007 REVISION PER CCOD LETTER DATED 01/23/2007
3 11/30/2006 REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2 10/08/2006 NPDES PHASE II SUBMISSION
1 10/05/2006 REV PER TWP. ENGR. LTR DATED 9/4/2006 & TWP. PLANNER LTR DATED 9/5/2006

FINAL
COVER SHEET

PLAN OF SUBDIVISION
PHASE I
GRANITE VILLAGE
AT SAINT PETERS

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA
EARTH ENTERPRISES
1441 PRUZER ROAD
PLIGHTTOWN, PA 19465
Phone: (610) 469-8800
Fax: (610) 469-8900
Project: 10001
Date: 09/08/2006
Scale: 1" = 100'
Drawn: TAH
Checked: CAD



RIGHT-OF-WAY CURVE TABLE

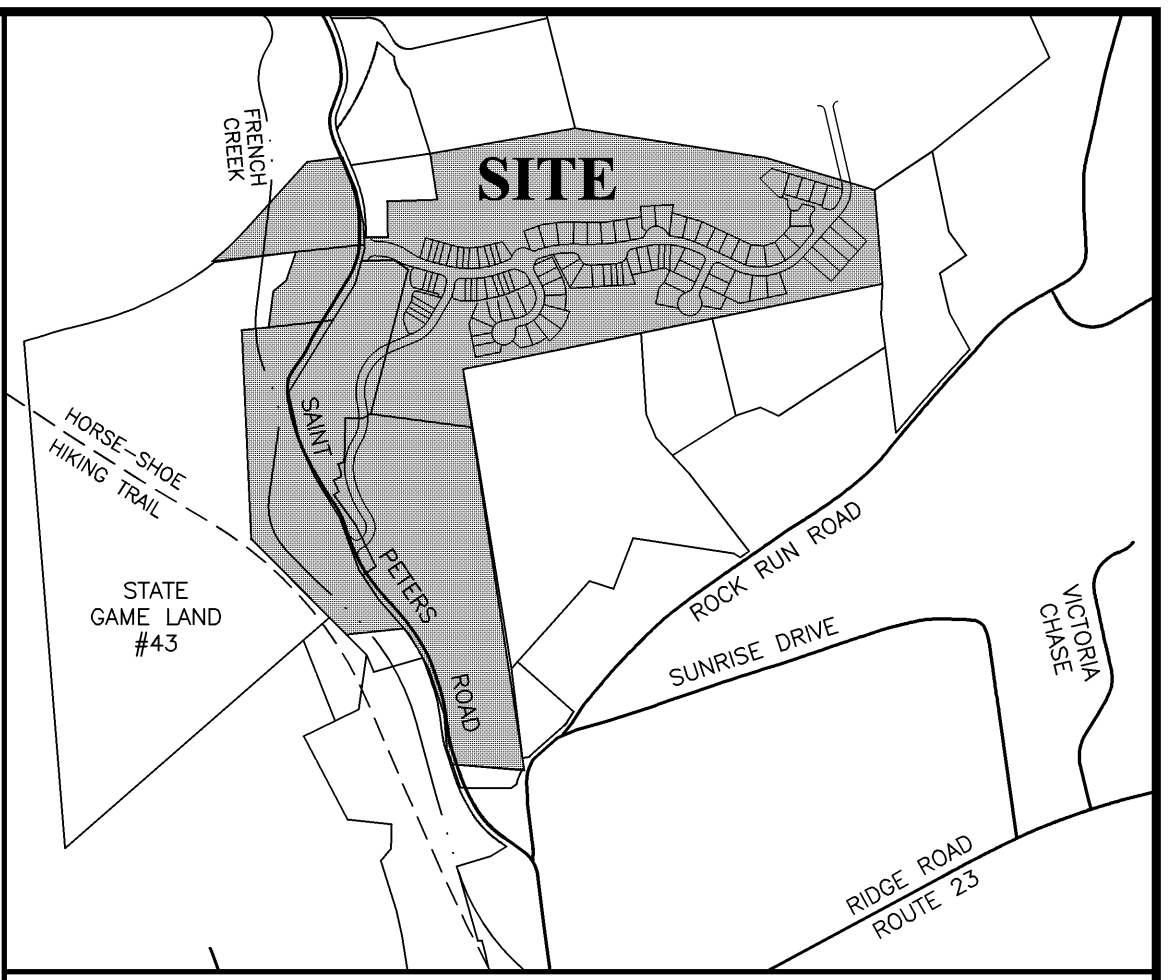
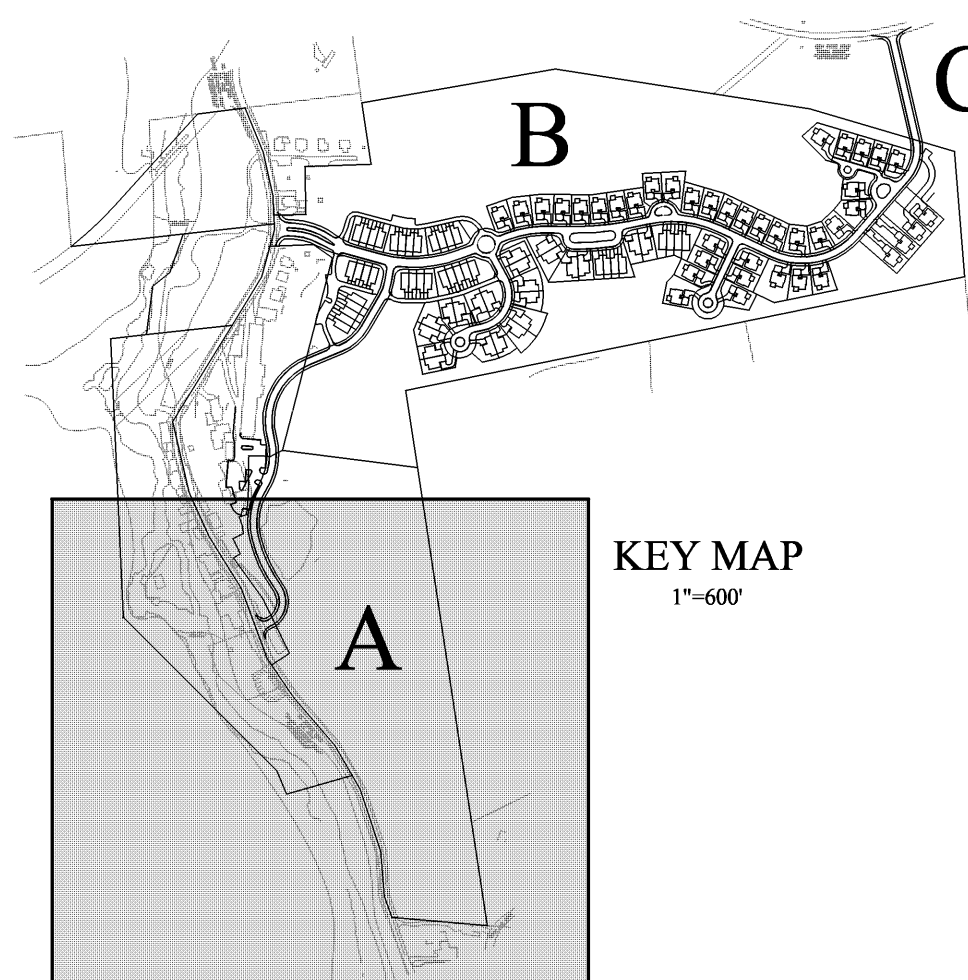
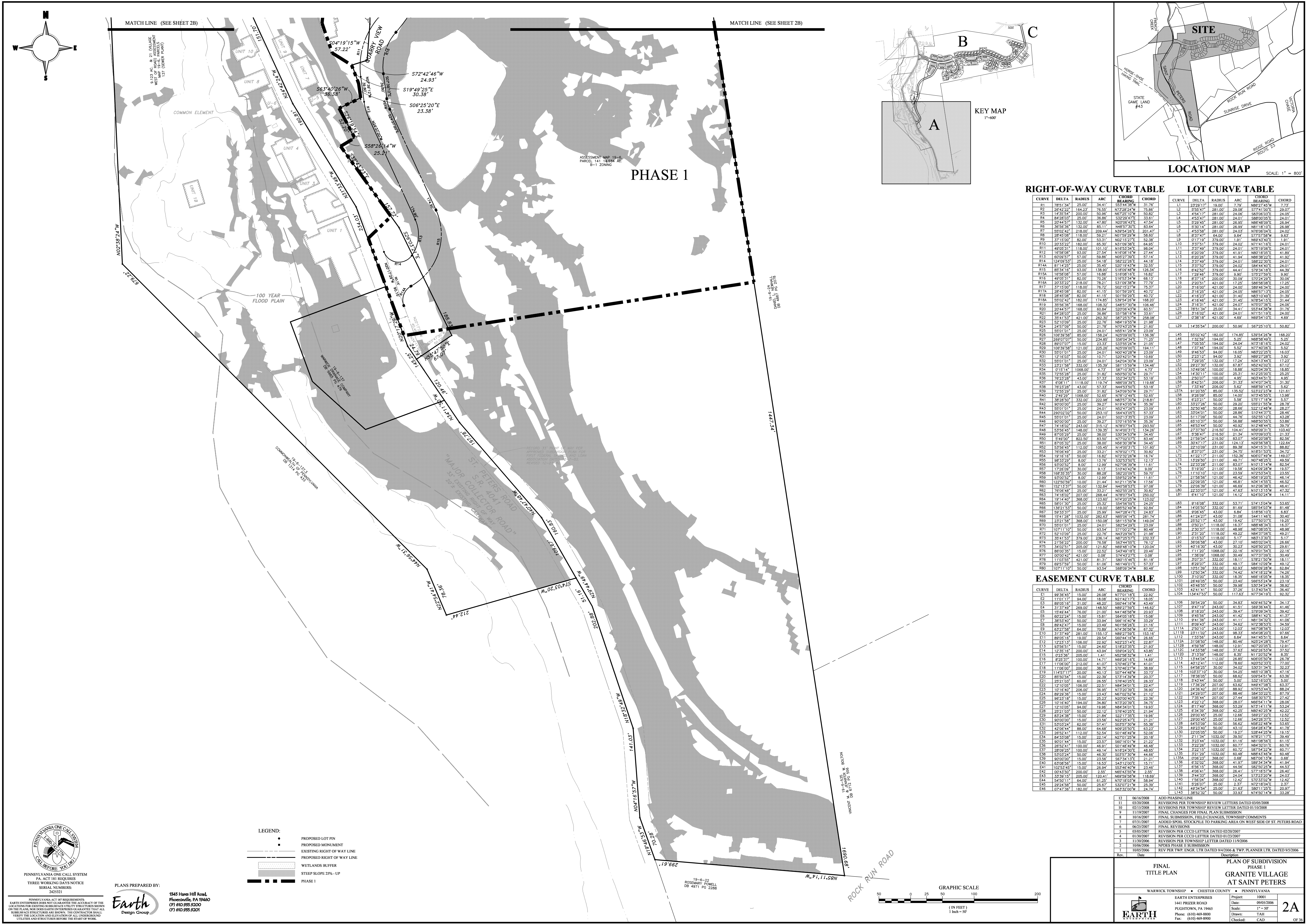
CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
R1	78°51'34"	25.00'	34.41'	S53°44'38"W	31.73'
R2	28°42'22"	164.25'	76.55'	N72°28'24"W	75.86'
R3	1°45'34"	200.00'	50.99'	N89°25'10"W	50.83'
R4	84°28'03"	25.00'	36.86'	S32°29'47"E	33.61'
R5	27°44'57"	132.00'	47.80'	N10°45'45"E	47.78'
R6	36°56'36"	132.00'	85.11'	N48°57'30"E	83.64'
R7	55°02'42"	218.00'	209.44'	S39°54'26"W	201.47'
R8	26°45'08"	118.00'	59.21'	N01°09'29"W	58.60'
R9	37°15'00"	82.00'	53.31'	N02°15'27"E	52.38'
R10	20°33'22"	118.00'	65.30'	N31°09'33"W	71.14'
R11	49°05'31"	118.00'	101.10'	N18°53'34"E	98.84'
R12	18°58'08"	93.00'	27.54'	N16°08'16"E	27.44'
R13	6°09'57"	97.00'	59.86'	N09°27'39"W	71.14'
R14	13°49'53"	25.00'	54.18'	S82°22'26"E	44.18'
R14A	81°14'25"	25.00'	33.45'	S32°19'43"W	33.45'
R15	85°34'16"	93.00'	138.90'	S18°09'48"W	126.34'
R15A	18°58'08"	97.00'	16.88'	S18°08'16"E	16.82'
R16	49°05'31"	92.00'	70.26'	S19°23'34"W	68.12'
R16A	20°33'22"	218.00'	78.21'	S31°09'38"W	77.79'
R17	37°15'00"	118.00'	78.72'	S39°24'26"W	168.20'
R17A	28°45'08"	82.00'	41.15'	S01°59'28"E	40.72'
R18	28°45'08"	82.00'	41.15'	S01°59'28"E	40.72'
R18A	59°02'42"	182.00'	174.89'	S39°54'26"W	168.20'
R19	35°56'36"	168.00'	108.32'	S48°57'30"W	106.46'
R20	22°44'57"	168.00'	65.84'	S04°41'38"W	65.75'
R21	84°28'03"	25.00'	36.86'	S51°28'16"W	33.61'
R22	35°41'53"	421.00'	382.50'	S87°25'57"W	258.08'
R23	2°10'10"	25.00'	26.70'	N84°19'54"W	21.08'
R24	24°57'09"	50.00'	21.78'	N70°43'25"W	21.60'
R25	35°01'01"	25.00'	33.01'	N54°19'29"W	23.09'
R26	108°39'58"	80.00'	158.24'	N25°09'00"E	136.36'
R27	28°07'07"	50.00'	234.85'	S58°04'34"E	71.25'
R28	6°09'57"	118.00'	23.33'	N33°20'26"W	21.00'
R29	108°39'58"	121.00'	225.28'	N25°09'00"E	194.11'
R30	55°01'01"	25.00'	24.01'	N00°40'28"W	23.09'
R31	7°14'03"	90.00'	50.74'	S07°42'01"W	10.69'
R32	55°01'01"	25.00'	24.01'	S44°04'30"W	23.09'
R33	1°32'13"	93.00'	1.35'	S81°15'00"W	134.47'±
R34	0°15'14"	108.00'	4.73'	S87°10'39"E	4.73'
R35	72°55'28"	25.00'	31.82'	N50°50'32"W	29.71'
R36	53°21'28"	43.00'	47.33'	S59°44'36"W	53.18'
R37	0°08'11"	1118.00'	119.74'	N86°09'39"E	119.68'
R38	72°55'28"	43.00'	57.33'	N44°53'01"E	53.18'
R39	72°55'29"	25.00'	31.82'	S43°09'50"W	29.71'
R40	24°29'29"	108.00'	32.65'	N78°12'49"E	32.65'
R41	84°28'03"	25.00'	218.81'	N89°30'30"W	218.81'
R42	84°28'03"	25.00'	39.27'	N19°43'05"W	35.36'
R43	55°01'01"	25.00'	24.01'	S70°18'25"W	35.36'
R44	29°02'02"	50.00'	253.10'	S64°43'05"E	57.33'
R45	55°01'01"	25.00'	24.01'	S02°13'35"E	23.09'
R46	87°00'00"	25.00'	39.27'	S70°18'25"W	35.36'
R47	74°18'02"	243.00'	315.12'	N78°07'54"E	293.50'
R48	57°56'45"	148.00'	139.35'	N14°00'31"E	134.47'±
R49	87°00'29"	25.00'	38.00'	S30°34'53"W	34.45'
R50	54°00'30"	82.50'	83.50'	N72°02'07"E	83.46'
R51	87°00'30"	25.00'	38.00'	N89°30'30"W	34.45'
R52	53°56'45"	112.00'	105.45'	N14°00'31"E	101.60'
R53	87°00'49"	25.00'	33.21'	N72°02'07"E	30.82'
R54	18°16'16"	50.00'	16.82'	N72°32'26"W	16.74'
R55	98°33'29"	8.00'	13.76'	S32°53'50"E	12.13'
R56	93°00'30"	8.00'	12.99'	N27°06'20"W	11.61'
R57	17°26'09"	30.00'	8.13'	S17°40'42"W	6.09'
R58	108°39'58"	30.00'	88.28'	S82°20'09"E	59.70'
R59	93°00'30"	8.00'	12.99'	S59°52'29"W	11.61'
R60	12°50'59"	10.00'	21.44'	N12°11'35"W	17.58'
R61	15°13'13"	50.00'	13.84'	N47°08'53"E	97.08'
R62	76°06'48"	25.00'	33.21'	N62°55'29"E	30.82'
R63	74°18'02"	207.00'	248.41'	N78°07'54"E	250.02'
R64	19°14'40"	368.00'	133.60'	N74°20'25"W	125.09'
R65	58°01'30"	25.00'	25.32'	S54°56'59"E	24.25'
R66	11°02'13"	50.00'	11.89'	S89°52'40"W	92.84'
R67	59°33'37"	25.00'	25.99'	N47°28'41"E	24.83'
R68	1°54'28"	133.00'	28.83'	N89°08'14"E	281.74'
R69	23°21'58"	368.00'	150.08'	S81°15'59"W	149.04'
R70	55°01'01"	25.00'	24.01'	S82°54'29"E	23.09'
R71	107°11'10"	50.00'	93.54'	S15°00'27"W	80.48'
R72	52°10'09"	28.00'	22.76'	N43°29'56"E	21.98'
R73	84°28'03"	25.00'	24.01'	S70°18'25"W	35.36'
R74	21°56'22"	209.00'	76.58'	S63°44'55"E	76.12'
R75	34°02'51"	205.00'	123.82'	N69°48'10"W	120.04'
R76	88°00'30"	15.00'	22.52'	S43°49'18"E	20.41'
R77	0°00'42"	421.00'	0.08'	S74°43'27"E	0.08'
R78	1°03'55"	421.00'	81.31'	S89°14'49"E	81.18'
R79	87°00'29"	50.00'	61.05'	N61°49'01"E	57.33'
R80	107°11'10"	50.00'	93.54'	S68°09'34"W	80.48'

EASEMENT TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
E1	9°36'45"	15.00'	26.08'	N72°01'18"E	22.34'±
E2	11°01'17"	84.00'	18.08'	N21°42'17"E	18.05'
E3	89°05'16"	31.00'	43.20'	S69°44'16"W	43.49'
E4	31°31'49"	698.00'	148.50'	N89°27'39"E	148.62'
E5	15°44'44"	78.00'	21.00'	N41°48'58"W	20.83'
E6	62°22'24"	15.00'	18.11'	S49°29'18"E	19.58'±
E7	38°53'40"	50.00'	33.94'	S66°16'40"W	33.29'
E8	89°42'47"	15.00'	23.49'	N01°38'26"E	21.16'
E9	87°27'58"	64.00'	70.88'	N74°35'56"W	67.32'
E10	31°37'49"	281.00'	158.13'	N89°27'39"E	153.18'
E11	89°05'16"	18.00'	25.84'	S69°44'16"W	25.82'
E12	12°23'13"	108.00'	22.92'	N22°23'14"E	22.87'
E13	93°56'51"	15.00'	24.60'	S18°23'35"E	21.83'
E14	12°23'13"	300.00'	43.94'	S09°04'22"E	43.80'
E15	72°33'38"	205.00'	1.41'	N52°58'32"W	1.41'
E16	72°33'37"	90.00'	14.71'	N62°28'16"E	14.69'
E17	11°06'00"	212.00'	41.07'	S70°46'27"W	41.01'
E18	11°06'00"	200.00'	38.75'	S70°46'27"W	38.69'
E19	11°45'17"	20.00'	40.13'	S07°44'40"W	33.12'
E20	85°50'54"	15.00'	22.39'	S73°14'39"W	20.37'
E21	85°21'03"	76.00'	0.95'	S78°40'30"E	26.82'
E22	12°10'05"	108.00'	22.51'	N84°34'01"E	22.47'
E23	10°16'40"	208.00'	38.95'	N73°20'38"E	36.80'
E24	89°23'38"	15.00'	23.43'	N87°02'00"E	21.12'
E25	96°23'18"	15.00'	25.23'	N20°00'40"E	22.38'
E26	11°16'40"	184.00'	34.80'	N73°20'38"E	34.75'
E27	12°10'05"	84.00'	19.86'	N84°34'01"E	19.83'
E28	25°21'03"	50.00'	24.12'	S70°40'25"E	21.84'
E29	89°24'38"	15.00'	21.84'	S27°12'15"E	19.80'
E30	90°00'00"	15.00'	23.56'	N22°43'47"E	21.21'
E31	23°03'24"	62.00'	61.41'	S08°57'30"E	58.88'
E32	42°06'44"	88.00'	64.68'	N09°25'50"E	63.63'
E33	26°52'41"	112.00'	92.64'	S01°48'49"W	52.08'
E34	64°53'08"	15.00'	22.14'	N27°01'25"W	20.14'
E35	90°01'44"	15.00'	23.57'	S67°16'01"W	21.22'
E36	26°32'41"	100.00'	48.81'	S01°48'49"W	46.68'
E37	89°23'38"	15.00'	23.43'	N87°02'00"E	48.68'
E38	53°03'24"	50.00'	46.30'	S02°57'30"W	44.68'
E39	89°23'38"	15.00'	23.56'	S67°34'13"E	21.08'
E40	63°08'56"	15.00'	16.53'	S43°12'00"E	15.71'
E41	10°23'45"	100.00'	26.84'	S82°48'40"W	23.46'
E42	06°43'50"	208.00'	2.55'	N65°43'58"W	2.50'
E43	33°39'15"	205.00'	120.41'	N69°59'58"W	118.69'
E44	44°05'11"	64.00'	61.28'	S12°28'03"E	58.94'
E45	29°24'58"	50.00'	25.87'	S32°07'21"W	25.39'
E46	07°47'38"	182.00'	24.78'	S63°32'50"W	24.74'

LOT CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
L1	23°29'17"	18.00'	7.79'	N86°27'45"W	7.73'
L2	5°55'47"	281.00'	23.08'	S74°13'01"E	23.07'
L3	4°54'17"	281.00'	24.06'	S83°03'01"E	24.05'
L4	4°54'47"	281.00'	24.01'	S89°00'05"E	24.01'
L5	5°29'45"	281.00'	26.85'	N86°48'09"E	26.84'
L6	5°30'14"	281.00'	26.99'	N81°18'10"E	26.98'
L7	4°53'58"	281.00'	24.03'	N76°08'04"E	24.02'
L8	6°31'47"	281.00'	28.60'	S71°59'38"W	28.63'
L9	6°17'19"	279.00'	1.91'	N69°43'40"E	1.91'
L10	23°51'51"	279.00'	34.02'	N71°44'18"E	34.01'
L11	23°47'49"	279.00'	24.01'	N76°19'06"E	24.01'
L12	6°20'09"	279.00'	41.91'	N80°18'05"E	41.89'
L13	6°20'06"	279.00'	41.94'	N85°38'22"E	41.92'
L14	33°47'49"	279.00'	24.01'	S88°22'30"E	24.01'
L15	5°37'45"	279.00'	24.00'	S84°44'40"E	24.01'
L16	6°42'52"	279.00'	44.41'	S79°34'18"E	44.39'
L17	12°48'46"	279.00'	9.90'	S72°27'26"E	9.92'
L18	6°37'16"	200.00'	30.00'	S79°24'29"E	30.06'
L19	22°02'41"	421.00'	17.20'	S86°58'08"E	17.25'
L20	21°10'00"	421.00'	24.00'	S89°44'34"E	24.00'
L21	21°16'25"	421.00'	24.05'	N85°57'13"E	24.05'
L22	41°16'23"	421.00'	31.40'	N80°10'49"E	31.39'
L23	41°16'45"	421.00'	31.48'	N85°57'13"E	31.44'
L24	31°16'31"	421.00'	24.07'	N79°07'36"E	24.06'
L25	78°51'34"	25.00'	36.86'	S51°28'16"W	33.61'
L26	31°16'02"	421.00'	24.01'	N71°51'19"E	24.00'
L27	0°38'18"	421.00'	4.69'	N69°54'10"E	4.69'
L29	14°30'34"	200.00'	50.96'	S67°25'10"E	50.82'
L45	50°02'42"	182.00'	174.85'	S39°54'26"W	168.20'
L46	13°52'59"	184.00'	5.25'	N69°58'49"E	5.25'
L47	7°09'55"	184.00'	24.04'	N75°01'18"E	24.02'
L48	13°47'46"	184.00'	5.52'	N77°40'06"E	5.52'
L49	4°58'53"	184.00'	16.05'	N85°24'25"E	16.03'
L50	22°31'22"	94.00'	3.92'	N82°45'28"E	3.92'
L51	72°09'05"	132.00'	17.24'	N34°13'44"E	17.23'
L52	29°27'30"	132.00'	13.02'	N52°42'00"E	13.12'
L53	10°49'08"	100.00'	18.88'	N29°54'39"E	18.85'
L54	43°30'11"	100.00'	25.31'	N12°55'00"E	24.92'
L55	7°50'07"	100.00'	4.95'	N04°44'51"E	4.95'
L56	84°52'51"	206.00'	31.33'	N74°07'34"E	31.30'
L57	13°34'40"	206.00'	5.62'	N85°53'14"E	5.62'
L57A	81°20'50"	85.00'	135.52'	S23°22'23"W	121.61'
L58	6°26'09"	85.00'	14.50'	N74°55'51"E	13.98'
L59	5°50'07"	85.00'	14.50'	N74°55'51"E	13.98'
L60	53°22'26"	50.00'	29.20'	S55°21'55"E	28.78'
L61	32°50'48"	50.00'	28.86'	S21°12'48"W	28.71'
L62	32°50'48"	50.00'	28.86'	S21°12'48"W	28.71'
L63	51°17'09"	50.00'	46.78'	N55°48'11"E	45.29'
L64	51°17'09"	50.00'	46.78'	N55°48'11"E	45.29'
L65	46°53'44"	50.00'	40.92'	N14°14'44"E	39.78'
L66	27°37'50"	216.50'	104.41'	N69°09'31"E	103.40'
L67	27°37'50"	216.50'	104.41'	N69°09'31"E	103.40'
L68	21°59'04"	185.00'	83.07'	N65°20'08"E	82.46'
L69	21°59'04"	185.00'	83.07'	N65°20'08"E	82.46'
L70	22°09'19"	211.00'	89.38'	N34°10'13"E	88.82'
L71	8°37'07"	211.00'	34.75'	N18°51'33"E	34.75'
L72	12°29'50"	211.00'	41.91'	N70°49'25"E	41.91'
L73	12°29'50"	211.00'	41.91'	N70°49'25"E	41.91'
L74	11°10'16"	121.00'	24.59'	N74°53'54"E	24.54'
L75	11°10'16"	121.00'	24.59'	N74°53'54"E	24.54'
L76	22°09'05"	141.00'	46.81'	N34°14'55"E	46.52'
L77	22°09'05"	141.00'	46.81'	N34°14'55"E	46.52'
L78	11°10'16"	121.00'	24.59'	N74°53'54"E	24.54'
L80	22°33'07"	121.00'	47.63'	N10°13'15"E	47.32'
L81	64°11'07"	121.00'	14.12'	N42°56'24"E	14.12'
L83	91°08'08"	33.00'	53.71'	N74°13'04"W	53.63'
L84	91°08'08"	33.00'	53.71'	N74°13'04"W	53.63'
L85	90°06'45"	42.00'	8.08'	S18°56'10"E	6.85'
L86	90°06'45"	42.00'	8.08'	S18°56'10"E	6.85'
L87	28°57'17"	43.00'	19.42'	S77°50'07"E	19.32'
L88	0°50'21"	1118.00'	16.37'	N88°48'54"E	16.26'
L89	0°50'21"	1118.00'	16.37'	N88°48'54"E	16.26'
L90	21°31'20"	1118.00'	49.22'	N84°31'06"E	49.11'
L91	21°31'20"	1118.00'	49.22'	N84°31'06"E	49.11'
L92	36°08'58"	43.00'	23.10'	N65°02'04"E	22.66'
L93	40°16'30"	43.00'	30.23'	N62°00'20"E	29.61'
L94	40°16'30"	43.00'	30.23'	N62°00'20"E	29.61'
L95	1°38'59"	1068.00'	10.49'	N77°37'09"E	10.36'
L96	1°38'59"	1068.00'	10.49'	N77°37'09"E	10.36'
L97	8°23'07"	332.00'	49.17'	S84°10'09"E	49.11'
L98	10°29'31"	332.00'	62.83'	N66°09'28"E	62.84'
L99	10°29'31"	332.00'	62.83'	N66°09'28"E	62.84'
L100	5°10'00"	332.00'	18.30'	N66°18'05"E	18.30'
L101	5°10'00"	332.00'	18.30'	N66°18'05"E	18.30'
L102	45°48'55"	50.00'	39.98'	S30°24'24"E	39.95'
L103	47°41'41"	50.00'	37.26'	N14°50'54"E	36.43'
L104	47°41'41"	50.00'	37.26'	N14°50'54"E	36.43'
L106	39°54'29"	50.00'	34.83'	N50°46'53"E	34.80'
L107	9°47'19"	243.00'	41.11'	S69°34'41"E	41.46'
L108	9°18'20"	243.00'	39.47'	S79°34'41"E	39.42'
L109	24°30'56"	243.00'	41.11'	N69°34'41"E	41.06'
L110	9°41'36"	243.00'	41.11'	N81°38'58"E	41.06'
L111	2°50'10"	243.00'	12.03'	N87°08'58"E	12.03'
L112	31°11'02"	243.00'	98.33'	N54°08'20"E	97.86'
L113	31°11'02"	243.00'	98.33'	N54°08'20"E	97.86'
L112A	31°09'50"	148.00'	80.44'	N26°24'28"E	79.97'
L113A	31°09'50"	148.00'	80.44'	N26°24'28"E	79.97'
L114	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L115	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L112C	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L113C	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L114C	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L115C	13°34'48"	148.00'	37.63'	N102°56'53"E	37.52'
L116	10°37'31'00"	30.00'	54.25'	N60°10'38"E	47.16'
L117	10°37'31'00"	30.00'	54.25'	N60°10'38"E	47.16'
L118	54°34'44"	50.00'	50.00'	S35°16'03"E	50.00'
L119	17°36'26"	207.00'	63.62'	N49°47'08"E	63.37'
L120	17°36'26"	207.00'	63.62'	N49°47'08"E	63.37'
L121	24°29'07"	207.00'	88.46'	S84°33'22"E	87.79'
L122	24°29'07"	207.00'	88.46'	S84°33'22"E	87.79'
L123	42°21'12"	368.00'	28.07'	N65°54'11"E	28.06'
L124	81°74'49"	368.00'	53.22'	N72°41'11"E	53.24'
L125	81°74'49"	368.00'	53.22'	N72°41'11"E	53.24'
L126	29°00'45"	25.00'	14.66'	S66°12'50"E	12.62'
L127	29°00'45"	25.00'	14.66'	S66°12'50"E	12.62'
L128	64°53'09"	50.00'	56.62'	N58°22'48"E	53.62'
L129	49°23'40"	50.00'	43.10'	S64°28'47"E	41.65'
L130	49°23'40"	50.00'	43.10'	S64°28'47"E	41.65'
L131	21°11'34"	1032.00'	39.50'	N78°21'17"E	39.49'
L132	21°11'34"	1032.00'	39.50'	N78°21'17"E	39.49'
L133	32°22'26"	1032.00'	60.77'	N84°58'11"E	60.76'
L134	32°21'15"	1032.00'	60.72'	S87°54'29"E	60.71'
L135	103°24'00"	1032.00'	10.64'	N42°56'24"E	8.64'
L135A	106°06'31"	368.00'	0.68'	N86°13'31"E	0.68'
L136	103°24'00"	1032.00'	10.64'	N42°56'24"E	8.64'
L137	65°56'15"	368.00'	44.56'	S59°50'25"E	44.53'
L138	65°56'15"	368.00'	44.56'	S59°50'25"E	44.53'
L139	48°04'41"	368.00'	26.41'	S71°59'38"W	26.40'
L140	48°04'41"	368.00'	26.41'	S71°59'38"W	26.40'
L141	156°04'36"	368.00'	14.42'	S76°33'02"E	12.42'
L142	156°04'36"	368.00'	14.42'	S76°33'02"E	12.42'
L142A	49°34'34"	25.00'	21.63'	S80°11'25"E	20.97'



RIGHT-OF-WAY CURVE TABLE					LOT CURVE TABLE						
CURVE	DELTA	RADIUS	ARC	CHORD	CURVE	DELTA	RADIUS	ARC	CHORD		
R1	78°51'34"	25.00'	34.41'	S55°44'36"W	31.76'	L1	23°29'17"	18.00'	7.79'	N89°27'45"E	7.73'
R2	28°42'22"	146.31'	76.55'	N72°28'01"W	75.86'	L2	8°56'47"	281.00'	26.08'	S77°41'00"E	29.07'
R3	1°35'54"	200.00'	50.96'	N67°25'10"W	50.82'	L3	4°54'17"	281.00'	24.08'	S83°06'03"E	24.05'
R4	84°28'03"	25.00'	36.86'	S32°29'47"E	35.61'	L4	4°53'47"	281.00'	24.01'	S82°00'05"E	24.01'
R5	2°44'57"	132.00'	47.86'	N20°05'26"E	47.54'	L5	2°29'45"	281.00'	26.09'	N87°48'09"E	26.88'
R6	36°56'35"	132.00'	85.11'	N48°57'30"E	83.64'	L6	5°30'14"	281.00'	26.69'	N81°18'10"E	26.83'
R7	8°02'42"	218.00'	208.44'	N39°54'26"E	201.47'	L7	4°53'58"	281.00'	24.05'	N76°08'04"E	24.02'
R8	28°45'08"	118.00'	59.21'	N01°59'29"W	58.60'	L8	8°37'47"	84.00'	9.84'	S77°57'58"W	9.63'
R9	37°15'00"	82.00'	53.31'	N02°15'27"E	52.38'	L9	9°17'19"	379.00'	1.91'	N69°43'40"E	1.91'
R10	20°33'29"	182.00'	65.30'	N13°09'36"E	64.95'	L10	2°37'50"	379.00'	24.01'	N71°41'15"E	24.01'
R11	48°03'31"	118.00'	101.10'	N16°53'34"E	88.04'	L11	8°37'49"	379.00'	24.01'	N70°19'06"E	24.01'
R12	1°59'08"	93.00'	71.54'	N10°08'29"E	71.44'	L12	1°20'09"	379.00'	41.91'	N87°18'05"E	41.89'
R13	62°09'57"	57.00'	59.86'	N08°27'59"E	57.14'	L13	8°20'28"	379.00'	41.94'	N86°38'22"E	41.92'
R14	12°40'33"	25.00'	34.18'	S82°22'26"E	44.18'	L14	2°37'49"	379.00'	24.01'	S82°22'20"E	24.01'
R14A	81°14'25"	25.00'	35.45'	S09°19'43"E	32.95'	L15	1°29'46"	379.00'	24.02'	S84°44'40"E	24.01'
R15	82°14'16"	93.00'	138.80'	S18°09'48"W	128.34'	L16	6°42'34"	379.00'	44.41'	S79°34'18"E	44.39'
R15A	1°58'08"	57.00'	16.88'	S10°08'16"E	16.82'	L17	1°29'46"	379.00'	24.02'	S79°34'18"E	24.01'
R16	48°03'31"	82.00'	70.26'	S18°53'34"W	68.13'	L18	8°37'18"	200.00'	30.09'	S70°24'29"E	30.06'
R16A	20°33'22"	218.00'	76.21'	S31°09'38"W	77.79'	L19	2°20'51"	421.00'	17.25'	S85°58'05"E	17.22'
R17	37°15'00"	118.00'	76.72'	S07°15'27"W	75.37'	L20	1°19'00"	421.00'	24.00'	S89°48'34"E	24.00'
R17A	28°45'08"	82.00'	41.15'	S01°59'29"E	40.72'	L21	3°16'25"	421.00'	24.05'	N85°57'13"E	24.05'
R18	28°45'08"	82.00'	41.15'	S01°59'29"E	40.72'	L22	4°16'23"	421.00'	31.46'	N87°10'49"E	31.39'
R18A	5°02'42"	182.00'	174.85'	S39°54'26"W	168.20'	L23	4°16'48"	421.00'	31.45'	N78°54'15"E	31.44'
R19	32°56'35"	168.00'	108.32'	S48°57'30"W	106.46'	L24	3°16'31"	421.00'	24.07'	N70°07'36"E	24.06'
R20	2°44'57"	168.00'	60.86'	N07°42'26"E	60.51'	L25	8°53'34"	25.00'	34.41'	S57°44'36"W	31.76'
R21	84°28'03"	25.00'	36.86'	S51°58'16"W	35.61'	L26	3°16'02"	421.00'	24.01'	N71°51'19"E	24.00'
R22	8°54'15"	431.00'	208.20'	S27°25'57"W	208.08'	L27	2°38'18"	421.00'	4.69'	N69°54'10"E	4.69'
R23	5°21'09"	25.00'	22.76'	N84°19'55"W	21.98'	L29	14°35'54"	200.00'	50.96'	S87°25'10"E	50.92'
R24	24°57'09"	50.00'	21.78'	N70°43'25"W	21.60'	L45	5°02'42"	182.00'	174.85'	S39°54'26"W	168.20'
R25	4°20'10"	25.00'	22.76'	N54°41'29"E	23.09'	L46	1°33'59"	194.00'	5.22'	N69°58'49"E	5.22'
R26	10°39'38"	85.00'	138.24'	N25°09'00"E	136.36'	L47	7°08'55"	194.00'	24.04'	N73°18'16"E	24.02'
R27	18°02'02"	25.00'	234.85'	N47°42'28"E	23.00'	L48	1°37'48"	194.00'	5.92'	N77°40'08"E	5.92'
R28	8°07'07"	15.00'	23.33'	S33°55'28"W	21.05'	L49	4°46'35"	34.00'	16.08'	N87°22'25"E	16.03'
R29	10°39'38"	121.00'	225.26"	N25°09'00"E	194.11'	L50	2°23'12"	34.00'	3.92'	N89°27'28"E	3.92'
R30	10°39'38"	121.00'	225.26"	N25°09'00"E	194.11'	L51	2°29'05"	34.00'	1.24'	N83°13'44"E	1.23'
R31	12°16'03"	50.00'	10.71'	S27°42'01"W	10.69'	L52	2°22'37"	332.00'	67.87'	N52°42'02"E	67.12'
R32	18°02'02"	25.00'	140.16"	S47°04'30"W	23.09'	L53	12°49'05"	100.00'	18.88'	N29°04'39"E	18.85'
R33	2°23'18"	332.00'	135.39'	S81°15'59"W	134.46'	L54	4°50'11"	100.00'	26.31'	N1°25'00"E	26.29'
R34	7°15'14"	1088.00'	4.73'	S87°10'39"E	4.73'	L55	2°50'07"	100.00'	4.95'	N57°44'51"E	4.95'
R35	2°58'28"	25.00'	11.89'	N07°12'49"E	11.86'	L56	6°42'51"	108.00'	31.33'	N74°07'34"E	31.30'
R36	7°23'28"	43.00'	57.33'	S52°34'32"E	53.18'	L57	1°33'49"	206.00'	5.62'	N68°59'14"E	5.62'
R37	1°08'11"	100.00'	118.74'	N89°09'29"E	118.69'	L57A	31°20'35"	80.00'	136.50'	S62°42'43"W	131.61'
R38	7°23'28"	43.00'	57.33'	N44°53'50"E	53.18'	L58	4°50'11"	100.00'	26.31'	N77°45'55"E	13.98'
R39	7°23'28"	25.00'	31.82'	S47°09'50"W	29.71'	L59	6°23'21"	50.00'	44.74'	S52°55'12"E	43.98'
R40	2°46'29"	108.00'	24.01'	N07°42'26"E	23.09'	L60	8°10'37"	50.00'	56.88'	N69°50'50"E	53.86'
R41	38°28'50"	332.00'	222.88'	N85°57'30"W	218.81'	L61	32°50'48"	50.00'	28.66'	S22°12'48"W	28.27'
R42	8°02'09"	25.00'	29.20'	N19°45'29"E	29.36'	L62	33°04'01"	50.00'	28.86'	S11°44'37"E	28.48'
R43	5°01'01"	25.00'	24.01'	N52°47'26"E	23.09'	L63	3°11'09"	50.00'	44.74'	S52°55'12"E	43.98'
R44	29°02'02"	50.00'	253.10'	S64°43'09"E	57.33'	L64	8°10'37"	50.00'	56.88'	N69°50'50"E	53.86'
R45	4°20'10"	25.00'	24.01'	N57°42'26"E	23.09'	L65	6°53'14"	50.00'	49.92'	N1°48'44"E	39.79'
R46	9°02'00"	25.00'	39.27'	S70°16'55"W	35.36'	L66	27°37'50"	216.50'	104.41'	N50°09'31"E	103.40'
R47	14°18'02"	113.00'	115.12'	N07°04'30"W	114.96'	L67	5°38'47"	216.50'	21.34'	N70°09'03"E	21.33'
R48	5°35'45"	148.00'	139.30'	N14°00'31"E	134.26'	L68	21°37'04"	100.00'	35.07'	N52°00'05"E	35.06'
R49	8°02'09"	25.00'	30.00'	S32°34'53"W	34.45'	L69	39°47'17"	231.00'	124.13'	N25°56'58"E	122.64'
R50	2°46'29"	108.00'	24.01'	N07°42'26"E	23.09'	L70	8°27'09"	331.00'	69.38'	N3°15'51"E	69.62'
R51	8°02'09"	25.00'	38.00'	N56°30'38"W	34.45'	L71	8°37'09"	231.00'	34.75'	N18°51'53"E	34.72'
R52	3°56'45"	113.00'	115.12'	N14°00'31"E	114.96'	L72	4°12'47"	211.00'	152.36'	N06°07'49"E	149.07'
R53	7°06'49"	25.00'	33.21'	N79°02'17"E	30.82'	L73	1°29'02"	211.00'	48.21'	N07°48'25"E	48.09'
R54	19°16'16"	50.00'	16.82'	N72°32'28"W	16.74'	L74	2°23'28"	211.00'	85.07'	N10°13'14"W	82.54'
R55	8°02'09"	25.00'	31.33'	S32°53'25"E	12.13'	L75	1°10'00"	211.00'	19.56'	N24°09'28"W	19.57'
R56	9°30'52"	8.00'	12.99'	N27°06'39"W	11.61'	L76	2°23'28"	211.00'	85.07'	N10°13'14"W	82.54'
R57	17°20'09"	30.00'	88.28'	S82°20'09"E	59.70'	L77	1°10'00"	211.00'	19.56'	N24°09'28"W	19.57'
R58	18°35'35"	30.00'	88.28'	S82°20'09"E	59.70'	L78	11°10'10"	121.00'	23.59'	N72°53'54"E	23.55'
R59	3°00'52"	8.00'	12.99'	S59°52'29"W	11.61'	L79	2°19'58"	121.00'	48.42'	N59°19'20"E	48.14'
R60	12°20'09"	10.00'	17.62'	N24°09'05"E	83.48'	L80	2°23'07"	121.00'	41.63'	N12°13'15"W	41.32'
R61	15°21'37"	50.00'	132.84'	N40°58'55"E	97.08'	L81	8°41'10"	121.00'	14.12'	N24°50'24"W	14.11'
R62	7°06'49"	25.00'	33.21'	N79°02'17"E	30.82'						
R63	7°41'02"	207.00'	268.44'	N78°07'54"E	250.02'						
R64	19°14'40'	368.00'	123.60'	N74°20'25"W	123.02'						
R65	18°02'09"	25.00'	29.20'	S47°04'30"W	23.29'						
R66	13°21'53"	50.00'	119.00'	S85°52'49"W	92.84'						
R67	8°23'28"	25.00'	19.56'	S47°04'30"W	23.29'						
R68	18°41'28"	1032.00'	282.63'	N85°08'14"E	281.74'						
R69	22°21'58"	368.00'	150.00'	S81°15'59"W	149.24'						
R70	5°01'01"	25.00'	24.01'	S87°42'26"E	23.29'						
R71	10°71'10"	50.00'	93.54'	S71°00'27"W	80.48'						
R72	15°21'09"	25.00'	38.00'	N56°30'38"W	34.45'						
R73	35°41'53"	379.00'	236.14'	N87°25'57"E	232.33'						
R74	2°15'22"	200.00'	76.36'	S69°44'55"E	76.12'						
R75	12°40'33"	205.00'	111.85'	N69°48'16"W	120.34'						
R76	8°02'09"	15.00'	22.52'	S43°49'18"E	20.48'						
R77	10°71'10"	50.00'	93.54'	S71°00'27"W	80.48'						
R78	8°02'09"	15.00'	22.52'	S43°49'18"E	20.48'						
R79	8°02'09"	15.00'	22.52'	S43°49'18"E	20.48'						
R80	10°71'10"	50.00'	93.54'	S71°00'27"W	80.48'						
R81	11°03'55"	421.00'	81.31'	S80°15'46"E	81.18'						
R82	8°02'09"	15.00'	22.52'	S43°49'18"E	20.48'						
R83	10°71'10"	50.00'	93.54'	S71°00'27"W	80.48'						
R84	19°14'40'	368.00'	123.60'	N74°20'25"W	123.02'						
R85	18°02'09"	25.00'	29.20'	S47°04'30"W	23.29'						
R86	13°21'53"	50.00'	119.00'	S85°52'49"W	92.84'						
R87	8°23'28"	25.00'	19.56'	S47°04'30"W	23.29'						
R88	18°41'28"	1032.00'	282.63'	N85°08'14"E	281.74'						
R89	22°21'58"	368.00'	150.00'	S81°15'59"W	149.24'						
R90	4°20'10"	25.00'	24.01'	S87°42'26"E	23.29'						
R91	10°71'10"	50.00'	93.54'	S71°00'27"W	80.48'						
R92	15°21'09"	25.00'	3								



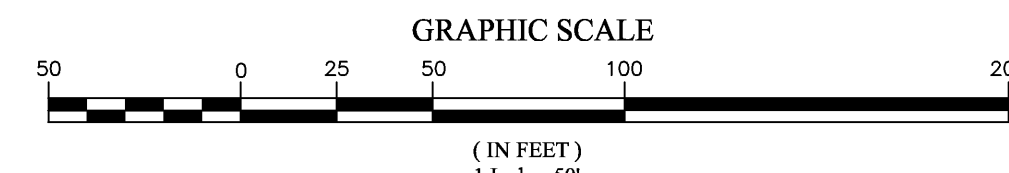
PLANS PREPARED BY:
Earth Design Group, Inc.
1545 Hares Hill Road,
Phoenixville, PA 19380
(P) 610.955.9200
(F) 610.955.9201

PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLAN. FOR EACH EARTH ENTERPRISES GUARANTEES THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

LEGEND:

- PROPOSED LOT PIN
- PROPOSED MONUMENT
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- WETLANDS BUFFER
- STEEP SLOPE 25% - UP
- PHASE 1



Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWIRL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
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8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWIRL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

EARTH ENTERPRISES
1441 PRUIZER ROAD
PIGHETTOWN, PA 19365
Phone: (610) 469-8800
Fax: (610) 469-8900

Project: 10001
Date: 09/05/2006
Scale: 1" = 50'
Drawn: TAH
Checked: CAD



LEGEND



LOT CURVE TABLE

CURVE	DELTA	RADIUS	CHORD	CHORD
L1	23.27°17"	19.00'	7.73'	7.73'
L2	53.56°47"	281.00'	29.08'	7471.00°06'
L3	45.14°47"	281.00'	29.08'	7471.00°06'
L4	45.34°47"	281.00'	29.08'	7471.00°06'
L5	52.58°45"	281.00'	29.08'	7471.00°06'
L6	45.34°47"	281.00'	29.08'	7471.00°06'
L7	52.58°45"	281.00'	29.08'	7471.00°06'
L8	45.34°47"	281.00'	29.08'	7471.00°06'
L9	52.58°45"	281.00'	29.08'	7471.00°06'
L10	45.34°47"	281.00'	29.08'	7471.00°06'
L11	52.58°45"	281.00'	29.08'	7471.00°06'
L12	45.34°47"	281.00'	29.08'	7471.00°06'
L13	52.58°45"	281.00'	29.08'	7471.00°06'
L14	45.34°47"	281.00'	29.08'	7471.00°06'
L15	52.58°45"	281.00'	29.08'	7471.00°06'
L16	45.34°47"	281.00'	29.08'	7471.00°06'
L17	52.58°45"	281.00'	29.08'	7471.00°06'
L18	45.34°47"	281.00'	29.08'	7471.00°06'
L19	52.58°45"	281.00'	29.08'	7471.00°06'
L20	45.34°47"	281.00'	29.08'	7471.00°06'
L21	52.58°45"	281.00'	29.08'	7471.00°06'
L22	45.34°47"	281.00'	29.08'	7471.00°06'
L23	52.58°45"	281.00'	29.08'	7471.00°06'
L24	45.34°47"	281.00'	29.08'	7471.00°06'
L25	52.58°45"	281.00'	29.08'	7471.00°06'
L26	45.34°47"	281.00'	29.08'	7471.00°06'
L27	52.58°45"	281.00'	29.08'	7471.00°06'
L28	45.34°47"	281.00'	29.08'	7471.00°06'
L29	52.58°45"	281.00'	29.08'	7471.00°06'
L30	45.34°47"	281.00'	29.08'	7471.00°06'
L31	52.58°45"	281.00'	29.08'	7471.00°06'
L32	45.34°47"	281.00'	29.08'	7471.00°06'
L33	52.58°45"	281.00'	29.08'	7471.00°06'
L34	45.34°47"	281.00'	29.08'	7471.00°06'
L35	52.58°45"	281.00'	29.08'	7471.00°06'
L36	45.34°47"	281.00'	29.08'	7471.00°06'
L37	52.58°45"	281.00'	29.08'	7471.00°06'
L38	45.34°47"	281.00'	29.08'	7471.00°06'
L39	52.58°45"	281.00'	29.08'	7471.00°06'
L40	45.34°47"	281.00'	29.08'	7471.00°06'
L41	52.58°45"	281.00'	29.08'	7471.00°06'
L42	45.34°47"	281.00'	29.08'	7471.00°06'
L43	52.58°45"	281.00'	29.08'	7471.00°06'
L44	45.34°47"	281.00'	29.08'	7471.00°06'
L45	52.58°45"	281.00'	29.08'	7471.00°06'
L46	45.34°47"	281.00'	29.08'	7471.00°06'
L47	52.58°45"	281.00'	29.08'	7471.00°06'
L48	45.34°47"	281.00'	29.08'	7471.00°06'
L49	52.58°45"	281.00'	29.08'	7471.00°06'
L50	45.34°47"	281.00'	29.08'	7471.00°06'
L51	52.58°45"	281.00'	29.08'	7471.00°06'
L52	45.34°47"	281.00'	29.08'	7471.00°06'
L53	52.58°45"	281.00'	29.08'	7471.00°06'
L54	45.34°47"	281.00'	29.08'	7471.00°06'
L55	52.58°45"	281.00'	29.08'	7471.00°06'
L56	45.34°47"	281.00'	29.08'	7471.00°06'
L57	52.58°45"	281.00'	29.08'	7471.00°06'
L58	45.34°47"	281.00'	29.08'	7471.00°06'
L59	52.58°45"	281.00'	29.08'	7471.00°06'
L60	45.34°47"	281.00'	29.08'	7471.00°06'
L61	52.58°45"	281.00'	29.08'	7471.00°06'
L62	45.34°47"	281.00'	29.08'	7471.00°06'
L63	52.58°45"	281.00'	29.08'	7471.00°06'
L64	45.34°47"	281.00'	29.08'	7471.00°06'
L65	52.58°45"	281.00'	29.08'	7471.00°06'
L66	45.34°47"	281.00'	29.08'	7471.00°06'
L67	52.58°45"	281.00'	29.08'	7471.00°06'
L68	45.34°47"	281.00'	29.08'	7471.00°06'
L69	52.58°45"	281.00'	29.08'	7471.00°06'
L70	45.34°47"	281.00'	29.08'	7471.00°06'
L71	52.58°45"	281.00'	29.08'	7471.00°06'
L72	45.34°47"	281.00'	29.08'	7471.00°06'
L73	52.58°45"	281.00'	29.08'	7471.00°06'
L74	45.34°47"	281.00'	29.08'	7471.00°06'
L75	52.58°45"	281.00'	29.08'	7471.00°06'
L76	45.34°47"	281.00'	29.08'	7471.00°06'
L77	52.58°45"	281.00'	29.08'	7471.00°06'
L78	45.34°47"	281.00'	29.08'	7471.00°06'
L79	52.58°45"	281.00'	29.08'	7471.00°06'
L80	45.34°47"	281.00'	29.08'	7471.00°06'
L81	52.58°45"	281.00'	29.08'	7471.00°06'
L82	45.34°47"	281.00'	29.08'	7471.00°06'
L83	52.58°45"	281.00'	29.08'	7471.00°06'
L84	45.34°47"	281.00'	29.08'	7471.00°06'
L85	52.58°45"	281.00'	29.08'	7471.00°06'
L86	45.34°47"	281.00'	29.08'	7471.00°06'
L87	52.58°45"	281.00'	29.08'	7471.00°06'
L88	45.34°47"	281.00'	29.08'	7471.00°06'
L89	52.58°45"	281.00'	29.08'	7471.00°06'
L90	45.34°47"	281.00'	29.08'	7471.00°06'
L91	52.58°45"	281.00'	29.08'	7471.00°06'
L92	45.34°47"	281.00'	29.08'	7471.00°06'
L93	52.58°45"	281.00'	29.08'	7471.00°06'
L94	45.34°47"	281.00'	29.08'	7471.00°06'
L95	52.58°45"	281.00'	29.08'	7471.00°06'
L96	45.34°47"	281.00'	29.08'	7471.00°06'
L97	52.58°45"	281.00'	29.08'	7471.00°06'
L98	45.34°47"	281.00'	29.08'	7471.00°06'
L99	52.58°45"	281.00'	29.08'	7471.00°06'
L100	45.34°47"	281.00'	29.08'	7471.00°06'

L99	12°50'34"	332.00'	74.42'	N74°18'22"W	74.26'
L100	3°10'00"	332.00'	18.35'	N66°18'05"W	18.35'
L101	26°40'05"	50.00'	23.40'	S66°53'24"W	23.10'

L102	65:48:55.55	50.00	37.98	53:07:54.54	36.90
L103	62:41:41.1	50.00	37.92	53:40:54.54	36.92
L104	65:48:55.55	50.00	37.98	53:07:54.54	36.90
L105	65:48:55.55	50.00	37.98	53:07:54.54	36.90
L106	65:48:55.55	50.00	37.98	53:07:54.54	36.90
L107	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L108	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L109	68:16:20	54.00	34.67	53:09:54.54	36.92
L110	68:16:20	54.00	34.67	53:09:54.54	36.92
L111	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L112	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L113	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L114	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L115	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L116	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L117	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L118	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L119	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L120	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L121	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L122	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L123	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L124	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L125	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L126	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L127	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L128	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L129	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L130	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L131	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L132	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L133	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L134	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L135	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L136	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L137	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L138	67:47:27.1	54.00	34.83	50:06:46.58	34.13
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L140	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L141	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L142	67:47:27.1	54.00	34.83	50:06:46.58	34.13
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L146	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L147	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L148	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L149	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L150	67:47:27.1	54.00	34.83	50:06:46.58	34.13
L151	67:47:27.1	54.00	34.83	50:06:46.58	

9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS

5	03/05/2007	REVISION PER CCCD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCCD LETTER DATED 01/23/2007

1	10/05/2006	REV PER TWP. ENGR. LTR DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006
Rev.	Date	Description

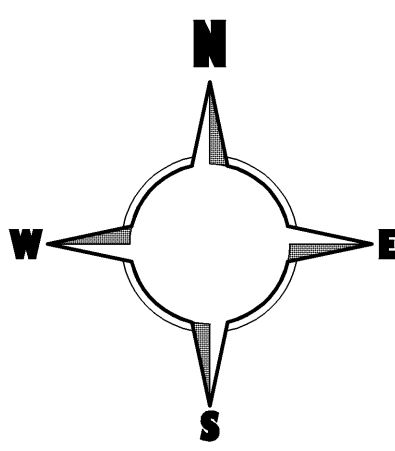
FINAL TITLE PLAN	PHASE I GRANITE VILLAGE
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WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

EARTH
PUGHTOWN, PA 19465
PH 610.661.4000

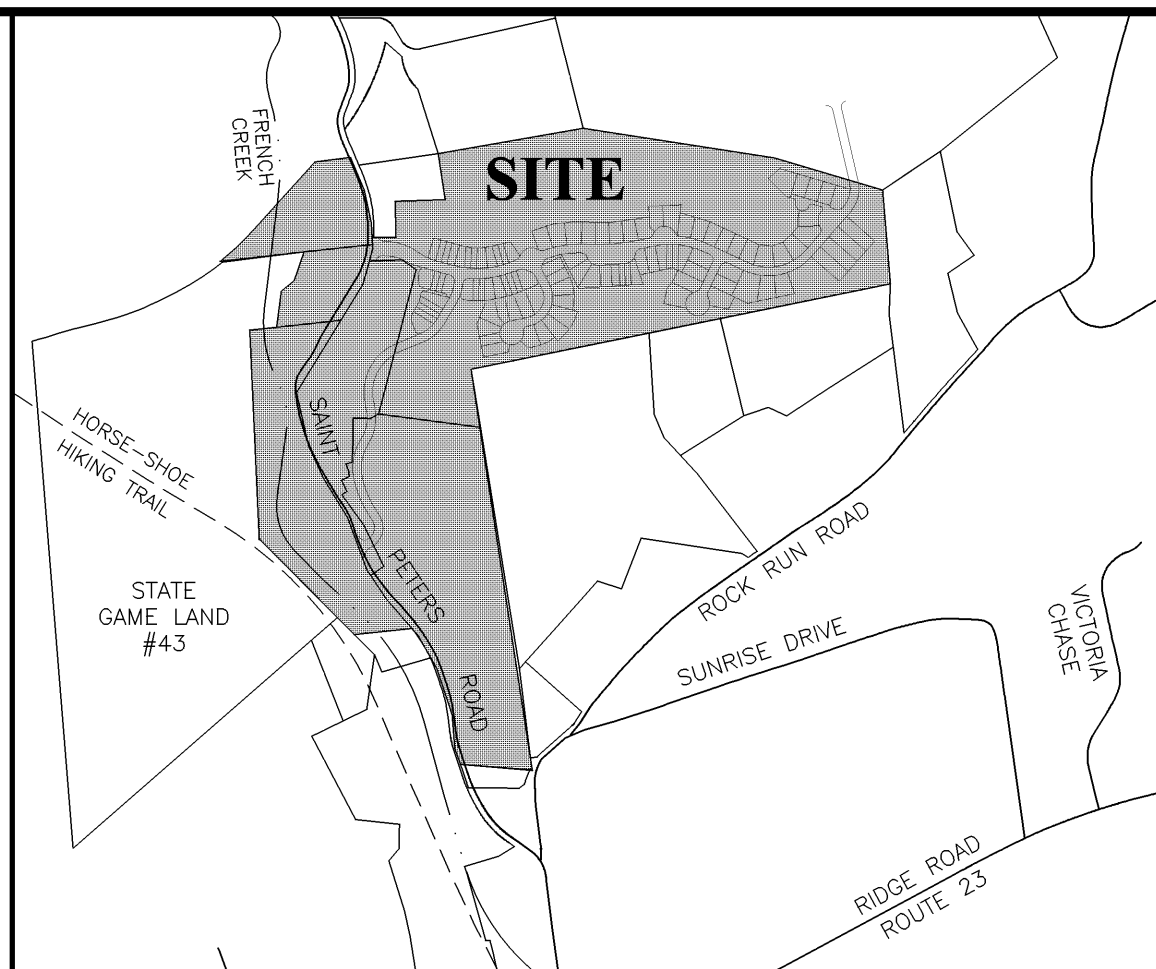
1345 Hares Hill Road,
Phoenixville, PA 19460

20



PENNSYLVANIA ONE-CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PENNSYLVANIA ACT 317 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS. NOR DOES EARTH ENTERPRISES GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.



LOCATION MAP

SCALE: 1" = 800'



MIN. 200' OPEN SPACE WIDTH
(3 OF 3) 11.50 AC.

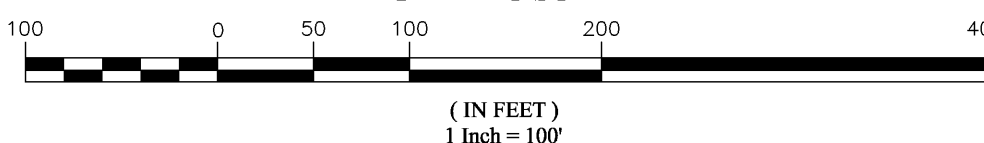
MIN. 200' OPEN SPACE WIDTH
(1 OF 3) 2.85 AC.

MIN. 200' OPEN SPACE WIDTH
(2 OF 3) 1.58 AC.

LEGEND:

- PROPOSED LOT PIN
- PROPOSED MONUMENT
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- WETLANDS BUFFER
- STEEP SLOPE 25% - UP
- STEEP SLOPE 15% - 25%
- TREE AREA TO BE PRESERVED
- EXISTING TREE MASS ON PARCEL 33.3
- PHASE 1

GRAPHIC SCALE



TREE PRESERVATION CALCULATION:

TOTAL TREE MASS = 43.81 AC. (32.94 AC. ON PARCEL 33.3, 10.45 AC. LOTS 1-10 AND LOTS 12-22 FROM IRON RIDGE SUBDIVISION)
MAXIMUM TREE DISTURBANCE = 15.33 AC. (35% OF TOTAL TREE MASS)
PROVIDED TREE DISTURBANCE = 14.57 AC. (33.58% OF TOTAL TREE MASS)

NOTE: WOODLAND CONSERVATION AREA ON LOTS 1-10 AND 12-22 FROM IRON RIDGE SUBDIVISION IS EXCLUSIVE OF INDIVIDUAL 35% DISTURBANCE FOR CONSTRUCTION OF THE INDIVIDUAL LOTS.

OPEN SPACE AREA CALCULATION (PARCEL 19-6-33.3 ONLY)

GROSS TRACT AREA = 36.66 AC.

SITE ENVIRONMENTAL FEATURES (to be deducted):
WETLANDS (100% DEDUCTION) = 1.72 AC.
WETLAND BUFFER (50% DEDUCTION) = 2.93 AC. (5.86 TOTAL)
VERY STEEP SLOPES (25%-UP) (100% DEDUCTION) = 3.36 AC.*
VERY STEEP SLOPES (15%-25%) (50% DEDUCTION) = 2.74 AC. * (\$4.88 TOTAL)

NET TRACT AREA: = 25.91 AC.
REQUIRED OPEN SPACE = 5.18 AC. (20% OF N.T.A.)
OPEN SPACE PROVIDED = 21.36 AC. (82.4% OF N.T.A.)
MIN. 200' OPEN SPACE WIDTH REQUIRED = 4.14 AC. (80% OF REQUIRED OPEN SPACE)
MIN. 200' OPEN SPACE WIDTH PROVIDED = 15.93 AC. (SEE PLAN VIEW)

PER ZO SECTION 2003: NO MORE THAN 50% OF MINIMUM REQUIRED SHALL BE COMPRISED OF ANY COMBINATION OF LANDS SUBJECT TO NET LOT DEDUCTIONS:

REQUIRED OPEN SPACE = 5.18 AC.
REQUIRED UN-CONSTRAINED OPEN SPACE = 2.59 AC. (50% OF REQUIRED OPEN SPACE)
PROVIDED UN-CONSTRAINED OPEN SPACE = 6.51 AC.
SLOPES 15-25 = 4.08 AC.
SLOPES 25-UP = 3.19 AC.
WETLANDS = 1.72 AC.
WETLANDS BUFFER = 5.86 AC.
TOTAL CONSTRAINED OPEN SPACE = 14.85 AC.

* THESE AREAS REFLECT THE STEEP SLOPE AND VERY STEEP SLOPE AREAS BEYOND THE WETLAND AREA, AND THE STEEP SLOPE AREA BEYOND THE WETLAND BUFFER AREA.

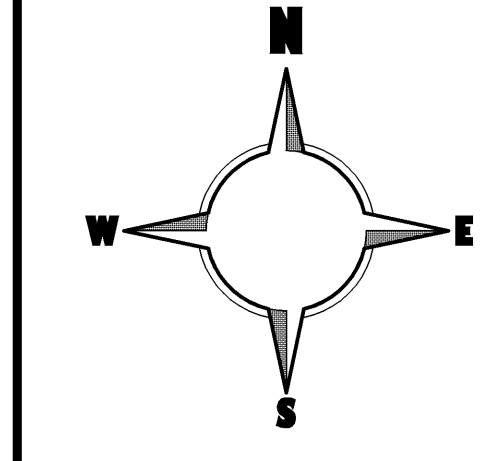
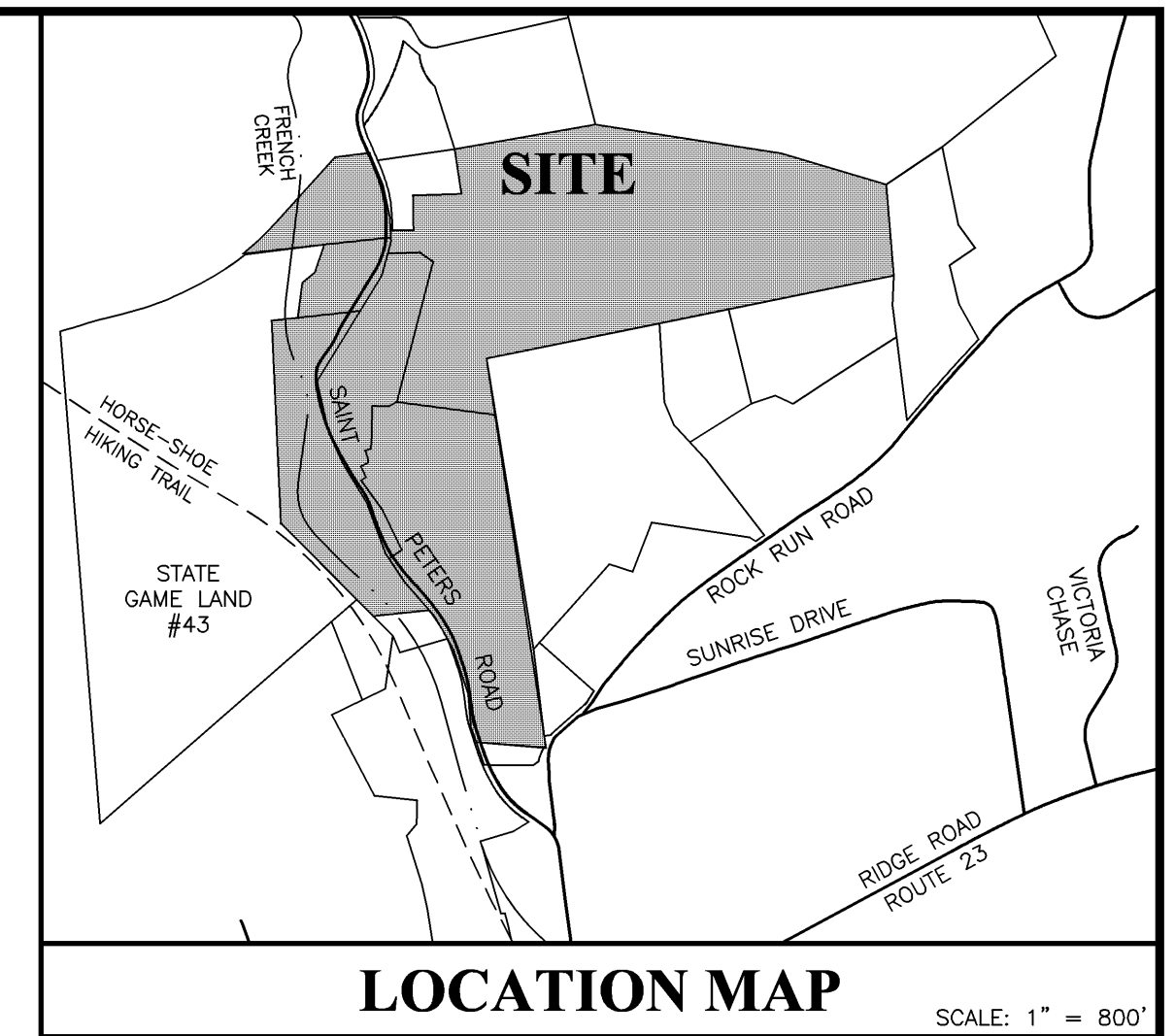
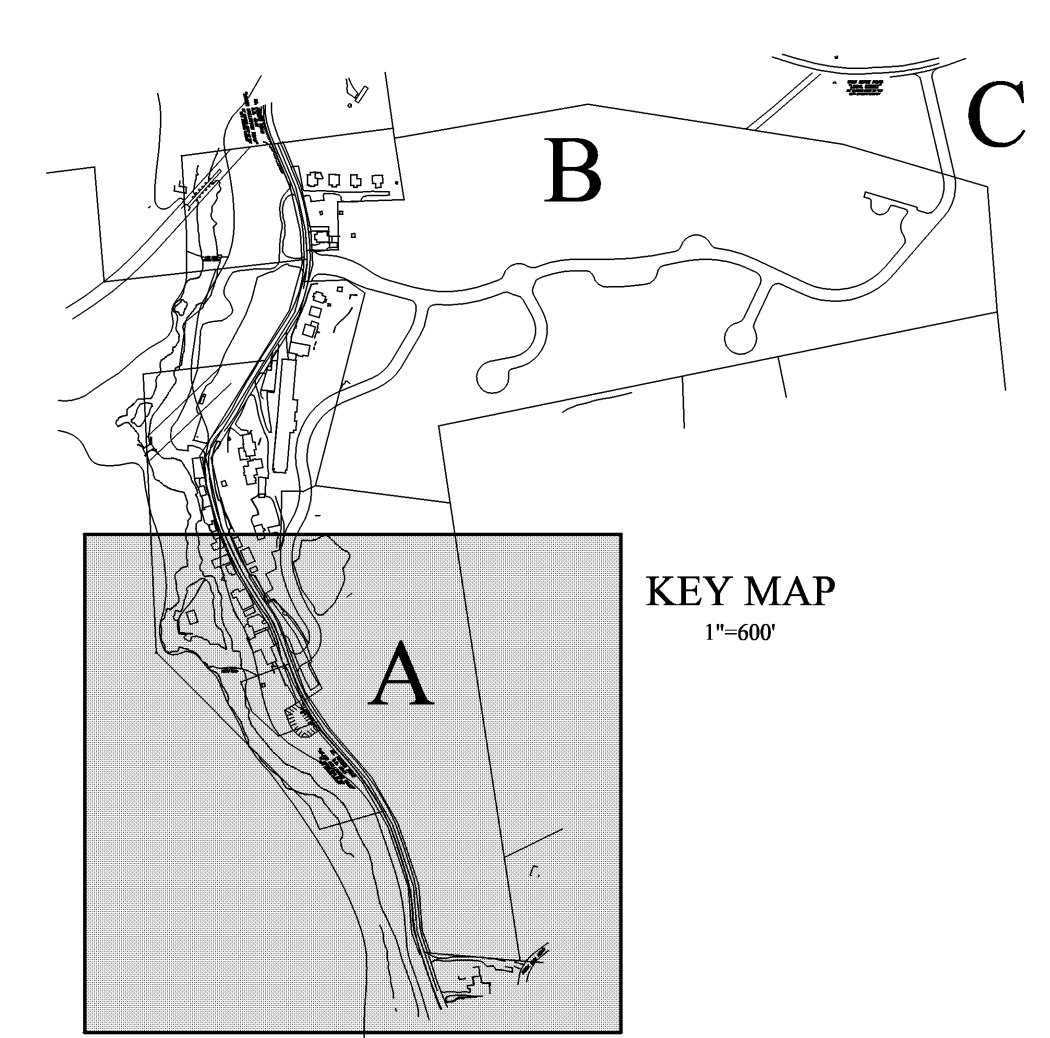
Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SPOIL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV. PER TWP. ENCL. LTR. DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

FINAL OPEN SPACE AND TREE PRESERVATION PLAN		PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS	
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		EARTH ENTERPRISES 1441 PRUZER ROAD PLUGTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900	
Project: 10001		Date: 09/05/2006	
Scale: 1" = 100'		Drawn: TAH	
Checked: CAD		3	

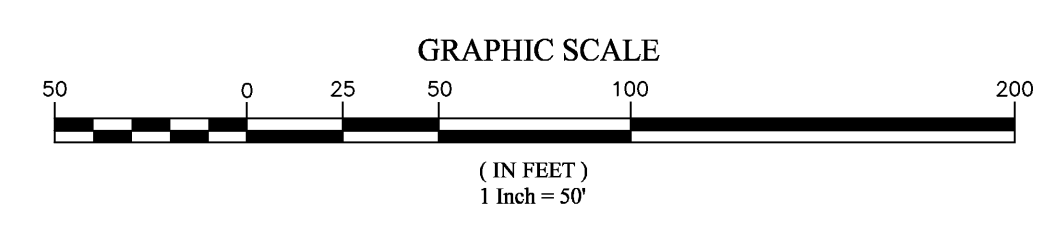
PLANS PREPARED BY:



1545 Hares Hill Road,
Phoenixville, PA 19460
(P) 610.955.9200
(F) 610.955.9201



- LEGEND:
- EXISTING RIGHT OF WAY LINE
 - EXISTING 10' CONTOUR
 - EXISTING 2' CONTOUR
 - EXISTING PAVING
 - EXISTING TREELINE
 - EXISTING ELECTRIC LINE
 - EXISTING WATER LINE
 - EXISTING STREAM LINE
 - EXISTING WELL
 - SOILS LINE & DESCRIPTION
 - STEEP SLOPE 15% - 25%
 - STEEP SLOPE 25% - UP
 - WETLANDS BUFFER



12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/06/2008
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/26/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV. PER TWP. ENCL. LTR. DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

Rev.	Date	Description
FINAL EXISTING CONDITIONS PLAN		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PUZZER ROAD PLIGHTOWN, PA 19465		
Phone: (610) 469-8800 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		



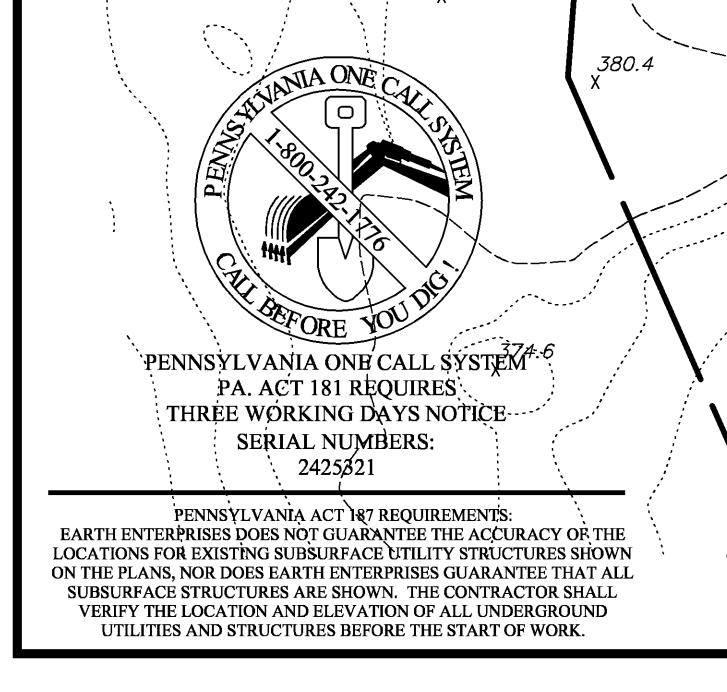
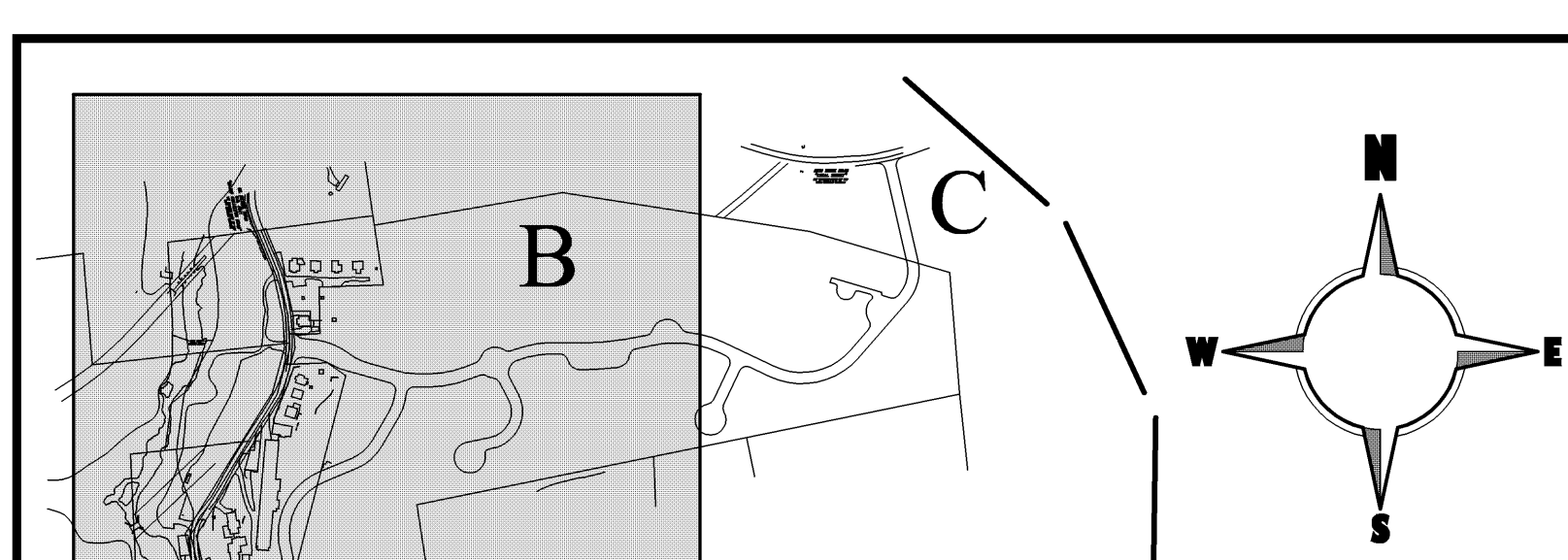
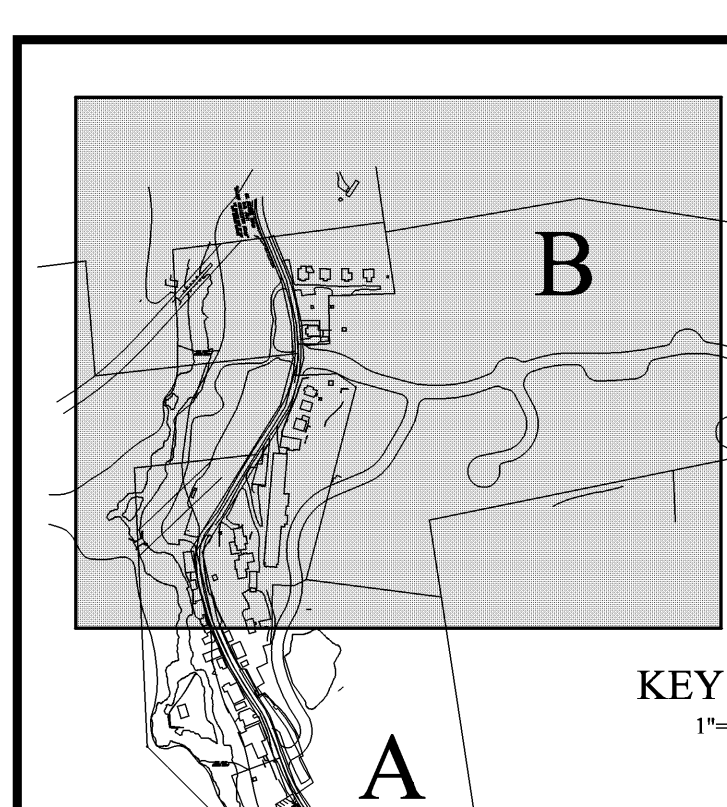
PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

SOILS LIST									
SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	ROAD FILL	SUITABLE FOR: TOPSOIL	ON-SITE SEWAGE
Mb	MONTAL TO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED
Md	MONTAL TO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED
Mf	MONTAL TO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED

PLANS PREPARED BY:



1545 Hares Hill Road,
Phoenixville, PA 19380
(P) 610.955.9200
(F) 610.955.9201

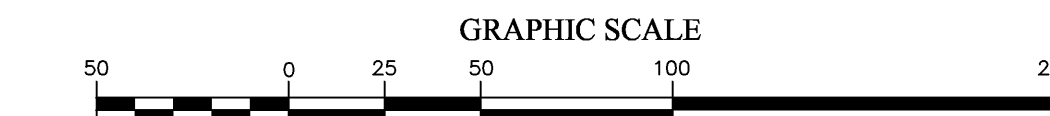


LEGEND:

---	EXISTING RIGHT OF WAY LINE
---	EXISTING 10' CONTOUR
---	EXISTING 2' CONTOUR
---	EXISTING PAVING
---	EXISTING TREELINE
---	EXISTING ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING STREAM LINE
---	EXISTING WELL
---	SOILS LINE & DESCRIPTION
---	STEEP SLOPE 15% - 25%
---	STEEP SLOPE 25% - UP
---	WETLANDS BUFFER

SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	SUITABLE FOR: ROAD FILL	SUITABLE FOR: TOPSOIL	ON-SITE SEWAGE	HYDRIC SOIL
Mb	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Md	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Mf	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A



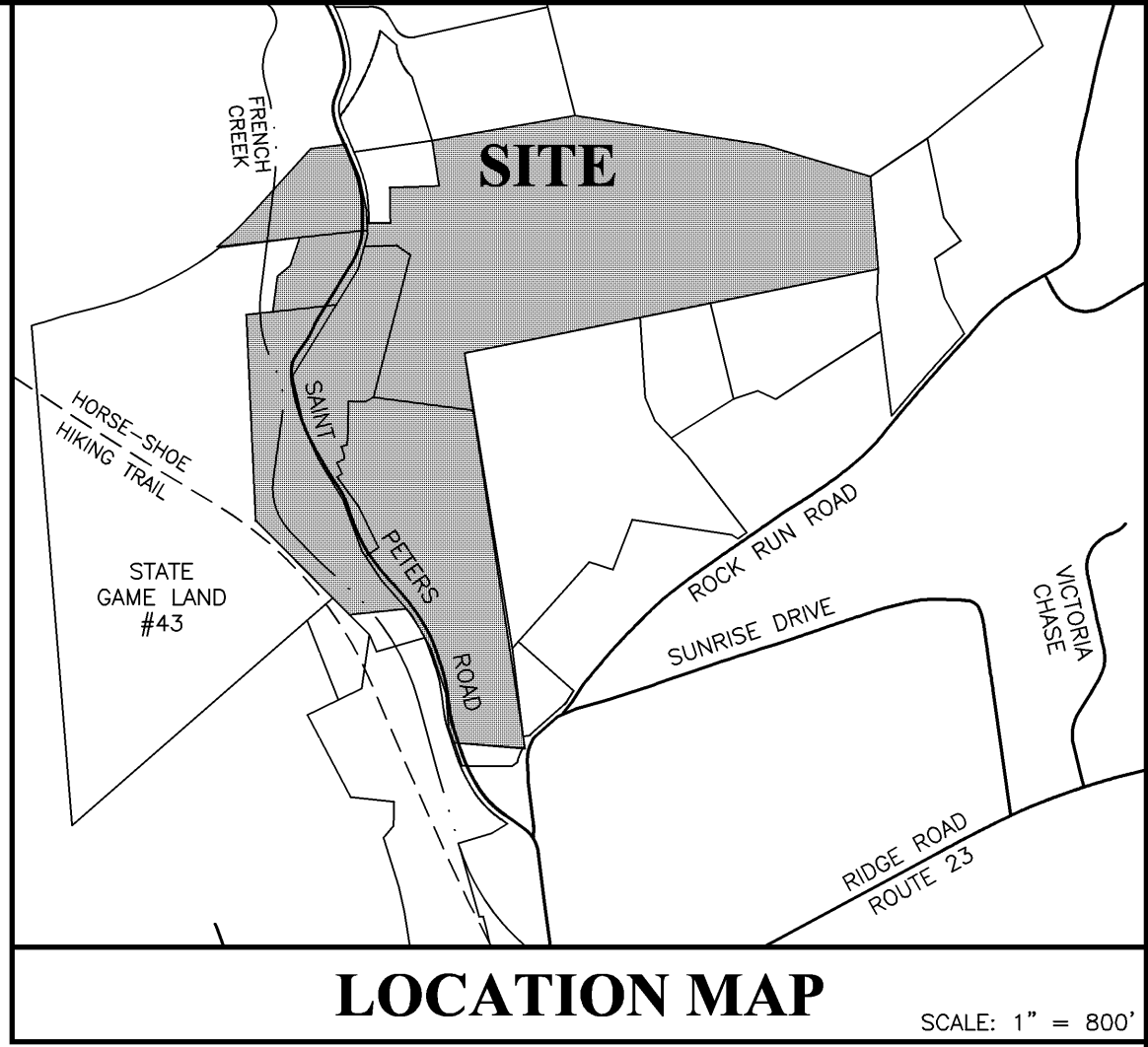
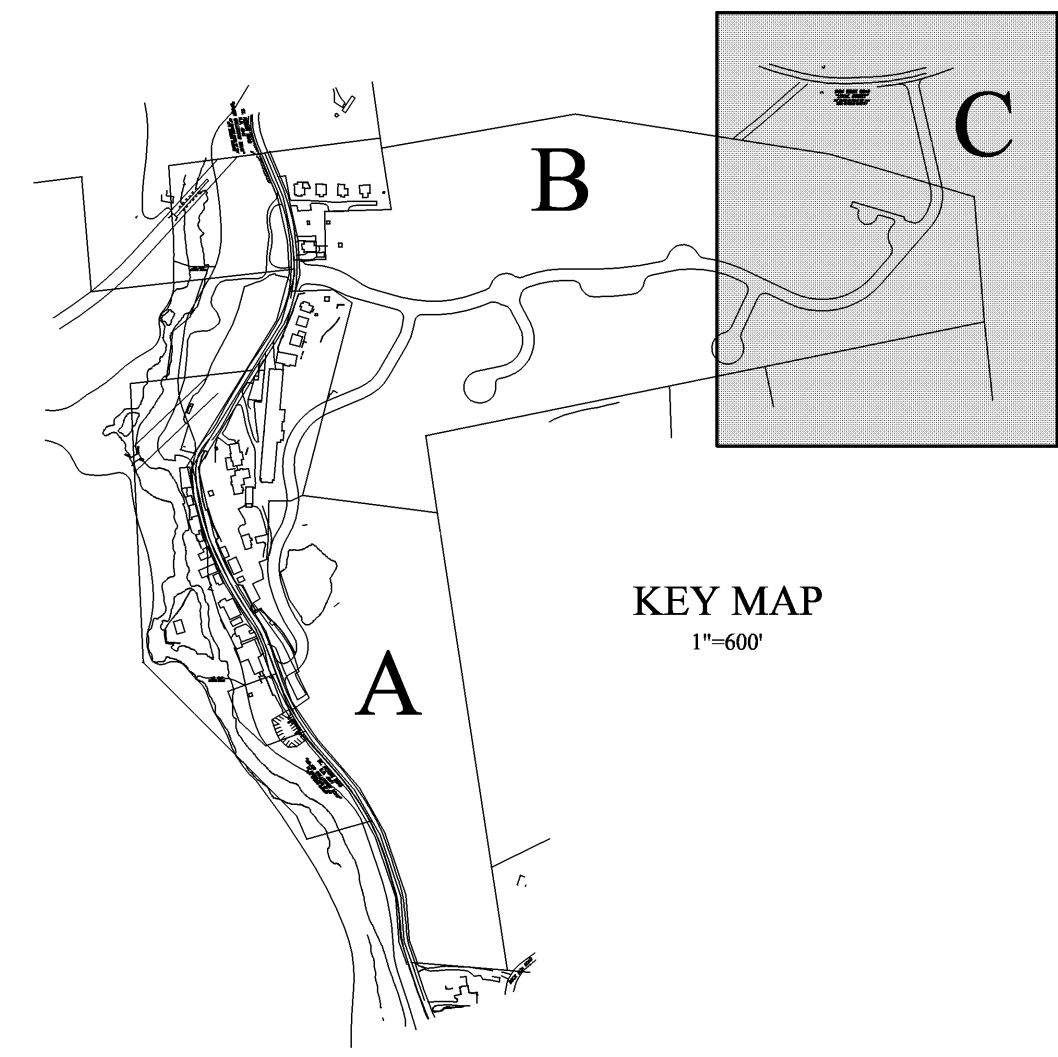
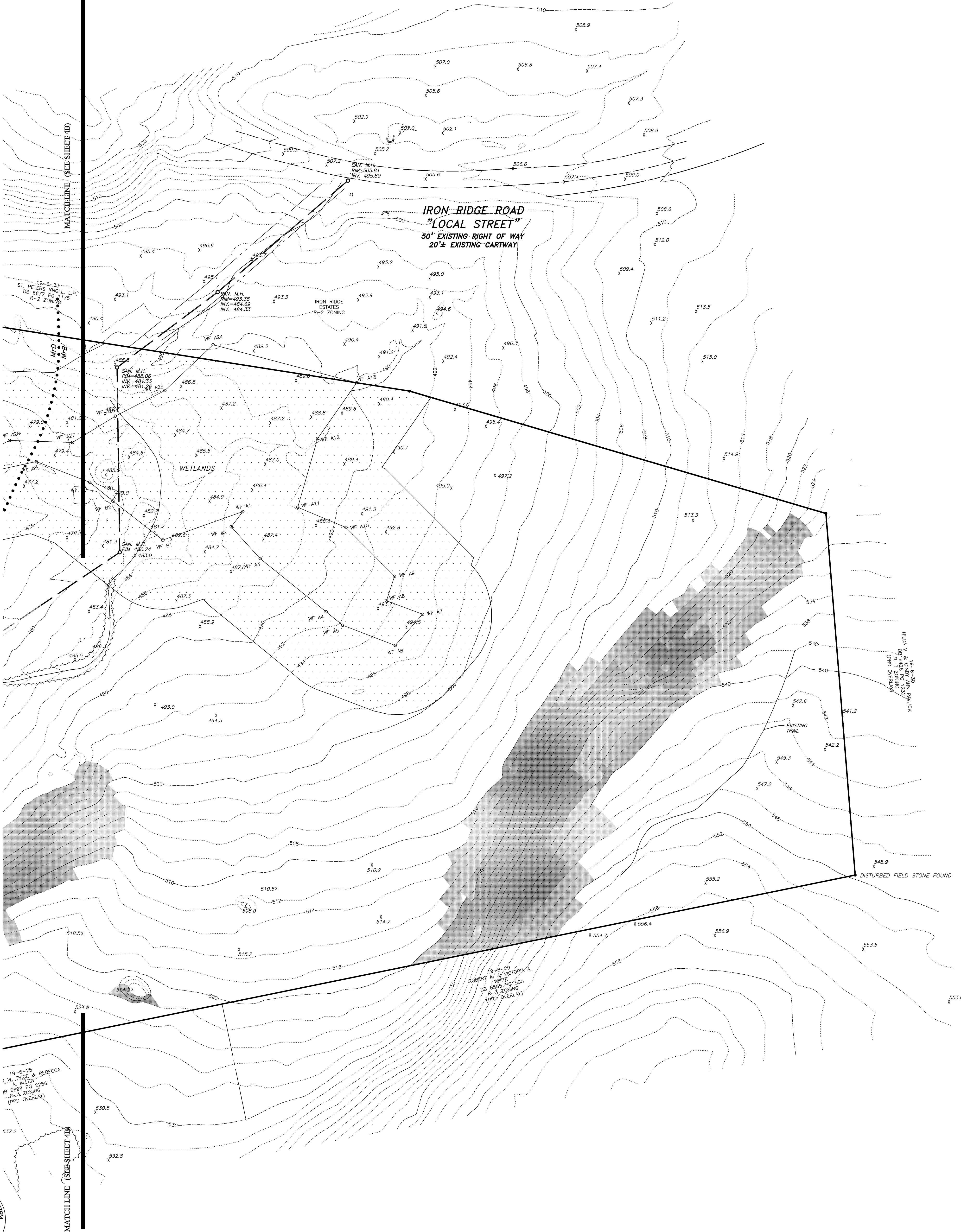
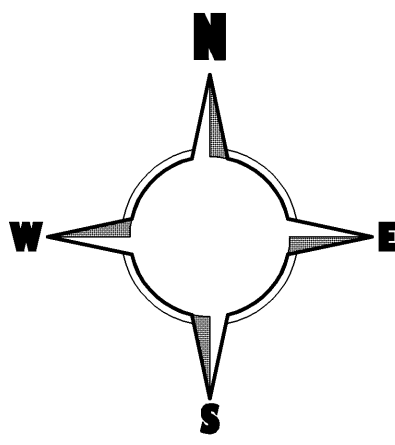
REVISIONS

Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SLOPE STACKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/26/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP ENGR. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

PLANS PREPARED BY:
Earth
Design Group

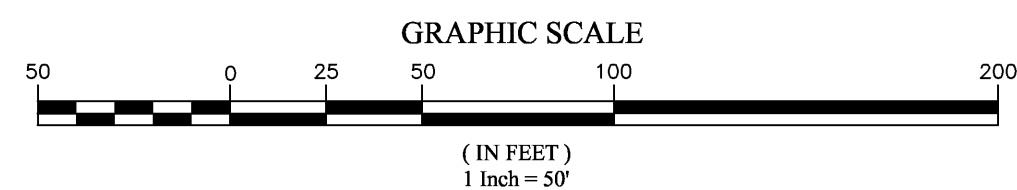
1845 Hare Hill Road,
Pottsville, PA 17860
(P) 610.955.9200
(F) 610.955.9201

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA
EARTH ENTERPRISES
1441 PUZZER ROAD
PILETOWN, PA 19465
Phone: (610) 469-8900
Fax: (610) 469-8900
Project: 10001
Date: 09/05/2006
Scale: 1" = 50'
Drawn: TAH
Checked: CAD



LEGEND:

- EXISTING RIGHT OF WAY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING PAVING
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- STEEP SLOPE 15% - 25%
- STEEP SLOPE 25% - UP
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SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	SUITABLE FOR:			HYDRIC SOIL
							ROAD FILL	TORNSOIL	ON-SITE SEWAGE	
MeB	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MeD	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MeF	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A

12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SPILL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/26/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP. ENCL. LTR DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

Rev.	Date	Description
FINAL EXISTING CONDITIONS PLAN		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PUZZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:



1345 Hares Hill Road,
Phoenixville, PA 19360
(P) 610.955.9200
(F) 610.955.9201

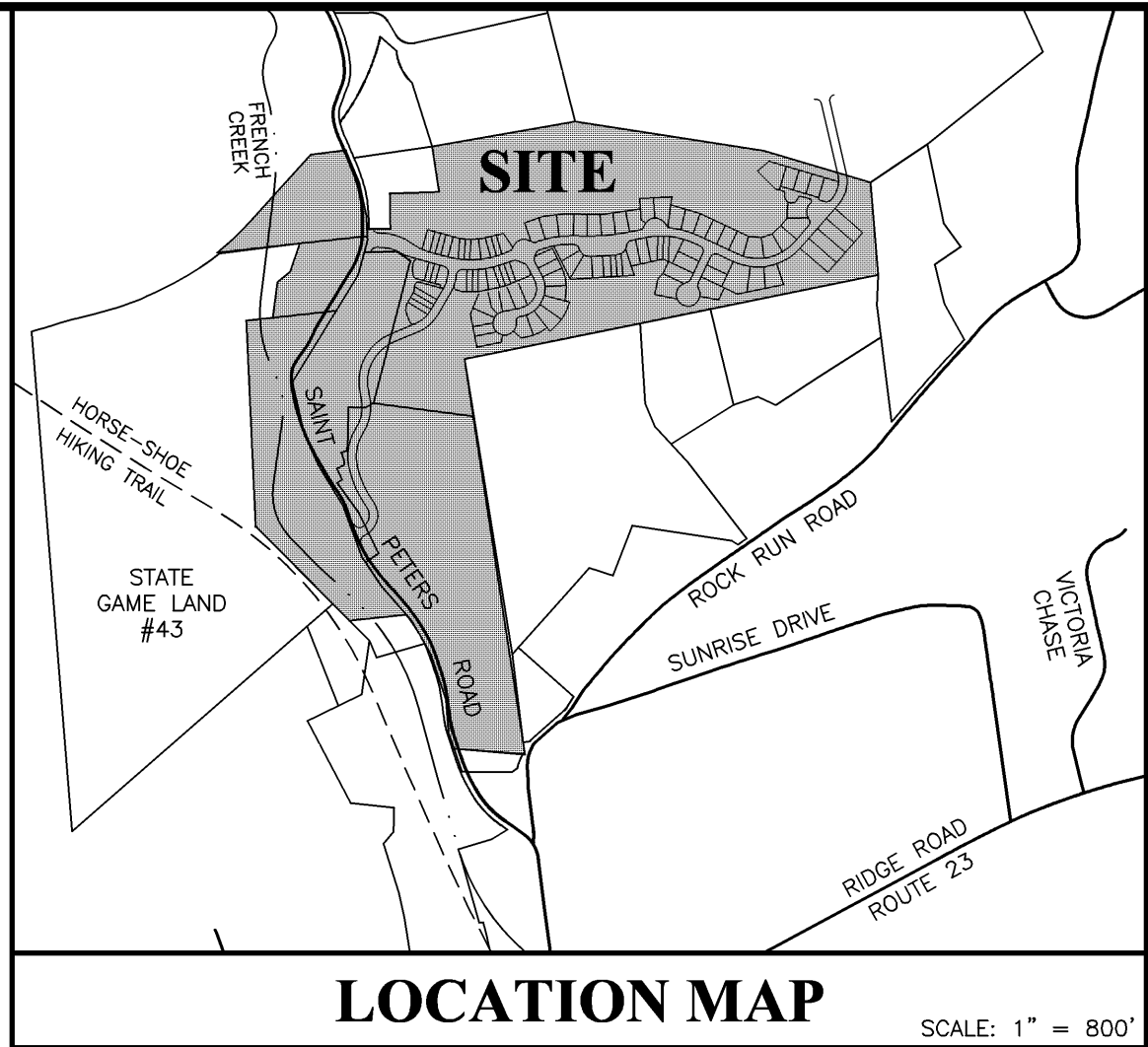
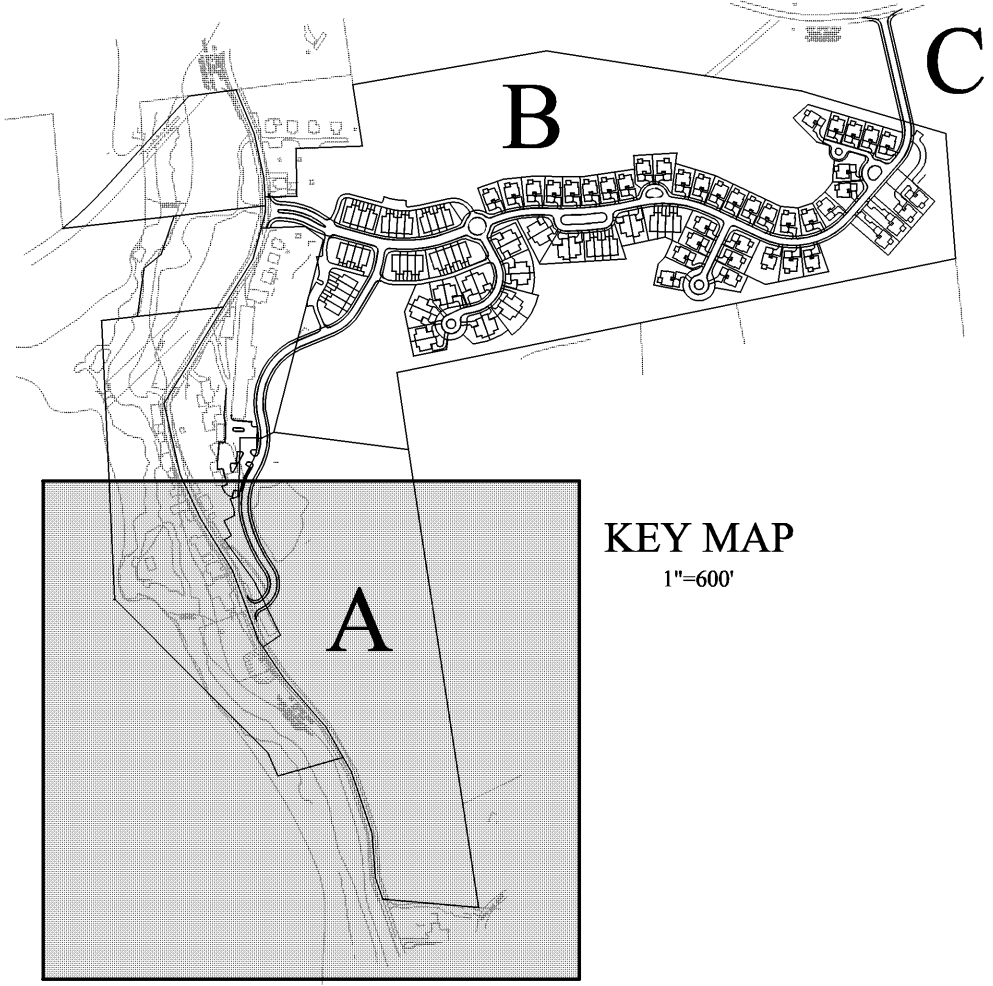
PENNSYLVANIA ACT BY REQUIREMENTS.
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLAN, NOR DOES EARTH ENTERPRISES GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.



4C
OF 36

MATCH LINE (SEE SHEET 5B)

MATCH LINE (SEE SHEET 5B)



Infiltration Test Field Report Wheeler Environmental Services *In cooperation with Environmental Design Service, Inc.*

Client: **Earth Enterprises**
Site Location: **St. Peters Village** Subdivision Name: **Black Granite Village at St. Peters**
Municipality: **Warwick Township** County: **Chester** State: **PA**
Staff: **Ross Wolford / Soil Scientist** Date: **8-11-06 & 12-05-06**
Test Method: **hydraulic conductivity - 24" head**

Weather Conditions: ☐ Below 40° ☒ Above 40° ☐ Precipitation Last 24 hrs
Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Test Hole #	Rdg Int.	Hole Depth	Rdg#1	Rdg#2	Rdg#3	Rdg#4	Rdg#5	Rdg#6	Rdg#7	Rdg#8	Final Drop	Peric. Rate	Drainage Class
N-1	30min	78"	1'2"	1'8"	0"	0"	0"				0"		SPD
N-2	30min	60"	5'12"	3'1'8"	2'1'2"	2'1'2"	2'1'4"	2'1'4"			2'1'4"	4'1'2"	WD
N-3A	unusable												PD
N-3B 1	30min	36"	15'3'4"	15'1'2"	15'3'4"	15'	13'1'4"	13'3'4"	12'1'8"	12'1'8"	24'1'4"		WD
N-3B 2	30min	36"	2'5'8"	1'1'4"	1'1'4"	1'1'8"	1"	7'8"	1"		1"	2"	WD
Average N-3B 1 + N-3B 2 = 6.56" for 30 min interval 13'1'4" hour													
N-4	30min	48"	1'1'4"	3'4"	5'8"	1'2"	1'2"				1'2"	1"	SPD
N-5	unusable												SPD
N-6	unusable												SPD
N-7	30 min	22"	1'1'4"	1"	7'8"	7'8"	3'4"				3'4"	1'1'2"	WD
N-8	unusable												SPD
N-9	30 min	36"	1'1'8"	7'8"	7'8"	3'4"	3'4"				3'4"	1'1'2"	MWD
N-10	30 min	36"	1"	7'8"	3'4"	1'2"	1'2"				1'2"	1"	MWD
N-11	30 min	72"	3'4"	1'2"	3'8"	3'8"					3'8"	3'4"	SPD

Infiltration Test Field Report Wheeler Environmental Services

Client: **Earth Enterprises**
Site Location: **St. Peters Village** Subdivision Name: **Black Granite Village at St. Peters**
Municipality: **Warwick Township** County: **Chester** State: **PA**
WES Staff: **Stephen Wheeler / Field Data** Date: **7-14 to 7-18-06**
Test Method: **hydraulic conductivity - 24" head**

Weather Conditions: ☐ Below 40° ☒ Above 40° ☐ Precipitation Last 24 hrs
Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Test Hole #	Rdg Int.	Hole Depth	Rdg#1	Rdg#2	Rdg#3	Rdg#4	Rdg#5	Rdg#6	Rdg#7	Rdg#8	Final Drop	Peric. Rate	Drainage Class
95	30min	32"	2'1'4"	1'3'4"	1'1'2"	1'1'4"	1'1'4"				1'1'4"	2'1'2"	WD
96	30min	32"	1'1'8"	7'8"	3'4"	1'2"	3'8"	3'8"			3'8"	3'4"	SPD
97	30min	32"	1'1'4"	1"	3'8"	3'4"	1'2"	1'2"			1'2"	1"	MWD
98	unusable												
99	30min	36"	1'1'4"	3'4"	5'8"	1'2"	1'2"				1'2"	1"	MWD
100	30min	36"	1'7'8"	1'1'8"	7'8"	7'8"	1'2"	1'2"			1'2"	1"	MWD
101	30 min	32"	1'3'8"	7'8"	5'8"	3'8"	1'4"	1'4"			1'4"	1'2"	SPD
102	30min	37"	1"	1'2"	3'8"	1'4"	1'4"	1'4"			1'4"	1'2"	SPD
103	30 min	31"	3'4"	1'2"	1'2"	1'2"	1'4"	1'8"			1'8"	1'4"	PD
104	30 min	36"	2'1'4"	1'1'2"	1'2"	1'2"	1'4"	1'4"			1'4"	1'2"	SPD
105	30 min	31"	1'1'8"	1"	7'8"	3'4"	1'2"	1'2"			1'2"	1"	MWD
106	30min	30"	6"	4'1'2"	3"	3"					3"	6"	WD
107	30min	34"	7"	6'1'8"	6"	6"					6"	12"	ED
108	30min	34"	1'2"	1'4"	1'4"	1'8"	0"	0"			0"	0	PD
109	unusable												

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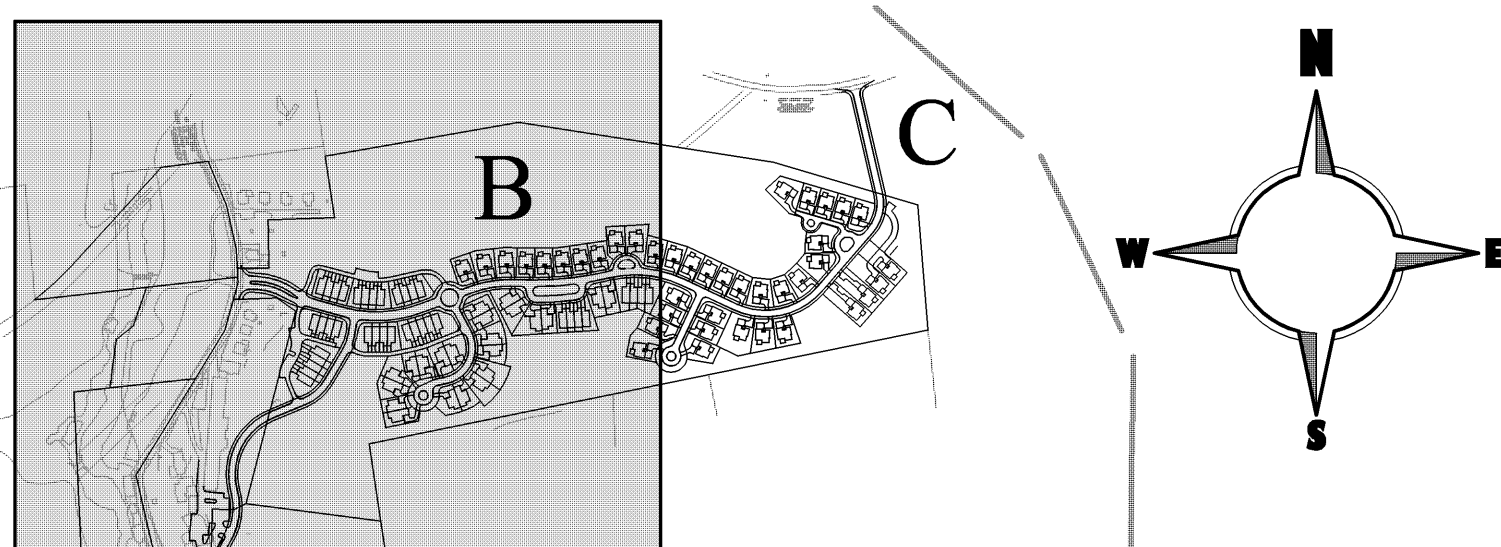
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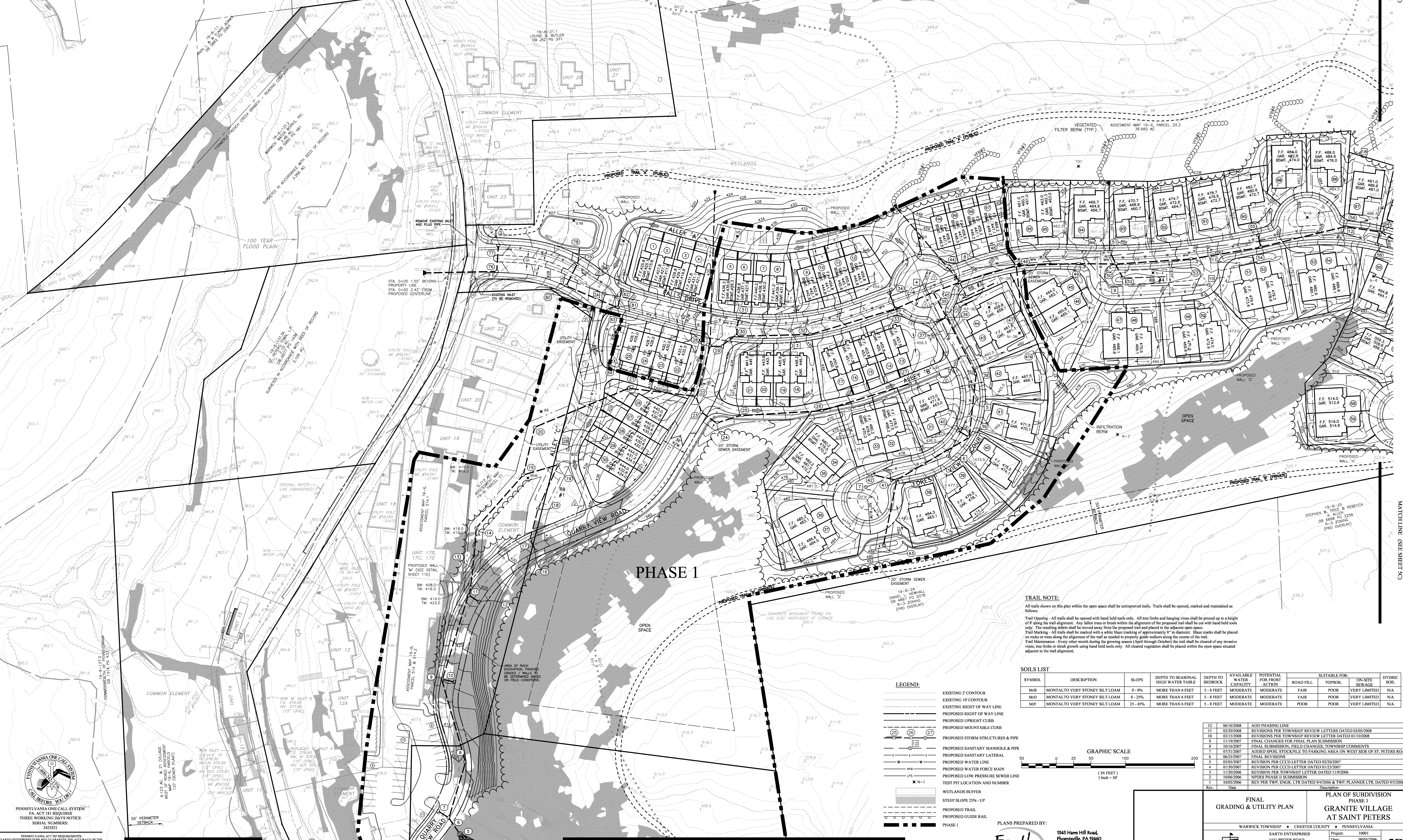
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FINAL GRADING & UTILITY PLAN		PLAN OF SUBDIVISION PHASE 1 GRANITE VILLAGE AT SAINT PETERS	
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA			
 EARTH ENTERPRISES	EARTH ENTERPRISES 1441 PRUZER ROAD FLUOROW, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900	Project: 10001 Date: 09/02/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD	5A OF 36



KEY MAP
1"=600'

ST. PETERS ROAD
S.R. 404
MAJOR COLLECTOR ROAD
33' EXISTING RIGHT OF WAY
20' ± EXISTING CARRIAGE



PHASE 1

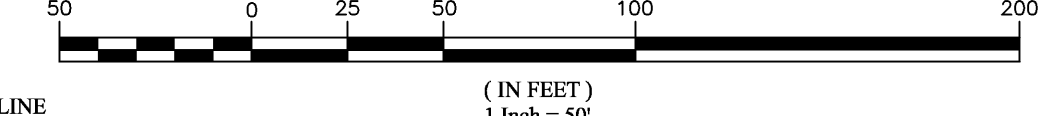
TRAIL NOTE:
All trails shown on this plan within the open space shall be unimproved trails. Trails shall be opened, marked and maintained as follows:
Trail Opening - All trails shall be opened with hand held tools only. All tree limbs and hanging vines shall be cut up to a height of 8' along the trail alignment. Any fallen trees or brush within the alignment of the proposed trail shall be cut with hand held tools only. The resulting debris shall be moved away from the proposed trail and placed in the adjacent open space.
Trail Marking - All trails shall be marked with a white blaze marking of approximately 8" in diameter. Blaze marks shall be placed on rocks or trees along the alignment of the trail as needed to properly guide walkers along the course of the trail.
Trail Maintenance - Every other month during the growing season (April through October) the trail shall be cleared of any invasive vines, tree limbs or shrub growth using hand held tools only. All cleared vegetation shall be placed within the open space situated adjacent to the trail alignment.

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR PROST ACTION	ROAD FILL	SUITABLE FOR TOPSOIL	ON-SITE SEWAGE	HYDRO SOIL
Mb	MONTALTO VERY STONEY SILT LOAM	0-4%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Md	MONTALTO VERY STONEY SILT LOAM	4-25%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Mf	MONTALTO VERY STONEY SILT LOAM	25-45%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A

LEGEND:

- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED UPRIGHT CURB
- PROPOSED MOUNTABLE CURB
- PROPOSED STORM STRUCTURES & PIPE
- PROPOSED SANITARY MANHOLE & PIPE
- PROPOSED SANITARY LATERAL
- PROPOSED WATER LINE
- PROPOSED WATER FORCE MAIN
- PROPOSED LOW PRESSURE SEWER LINE
- TEST PIT LOCATION AND NUMBER
- WETLANDS BUFFER
- STEEP SLOPE 25% - UP
- PROPOSED TRAIL
- PROPOSED GUIDE RAIL

GRAPHIC SCALE



PLANS PREPARED BY:



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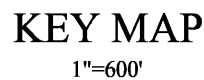
FINAL GRADING & UTILITY PLAN

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PLEASANTVILLE, PA 19065
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PHASE I
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AT SAINT PETERS

Project: 10001
Date: 09/05/2006
Scale: 1" = 50'
Drawn: TAH
Checked: CAD



In cooperation with Environmental Design Service, Inc.

Client: Earth Enterprises

Site Location: St. Peter's Village

Staff: Rose Wolford/ Soil Scientist Date: 8/11/08 8/12/05/06

Test Method: hydrolic conductivity: 24" head

Weather Conditions: ☐ Below 40° ☒ Above 40° ☐ Precipitation Last 24 hrs

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Wheeler Environmental Services

Client: Earth Enterprises

Site Location: St. Peter's Village

WES Staff: Stephen Wheeler (Robert Davis)

Test Method: hydraulic conductivity @ 24" head

Weather Conditions: ☐ Below 40° ☒ Above 40° ☐ Precipitation Last 24 hrs

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

- EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
EXISTING RIGHT OF WAY LINE



12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 02/07/2008
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SLOP STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCCO LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCCO LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/06/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	RPV PER TWP. ENG. LTR DATED 9/4/2006 & TWP. PLANNER LTR DATED 9/5/2006
Pre		

FINAL GRADING & UTILITY PLAN		PLAN OF SUBDIVISION PHASE 1 GRANITE VILLAGE AT SAINT PETERS	
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA			
	EARTH ENTERPRISES 1441 PRIZER ROAD PUGHTON, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		Title: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD
			5C
			OF 36

OF 36

All trails shown on the

All trails shown on this plan within the open space shall be unimproved trails. Trails shall be opened, marked and maintained as

of 8' along the trail alignment. Any fallen trees or brush within the alignment of the proposed trail shall be cut with hand held tools.

--	--

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	SUITABLE FOR:			HYDRIC SOIL
							ROAD FILL	TOPSOIL	ON-SITE SEWAGE	
Mfb	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	Fair	Poor	Very Limited	N/A
Mfd	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	Fair	Poor	Very Limited	N/A
Mr	MONTALTO TO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	Poor	Poor	Very Limited	N/A

[illegible]

Earth
Design Group

PA. ACT 181 REQUIRES
THREE WORKING DAYS NOTICE

SERIAL NUMBERS:

DOI: 10.1002/for

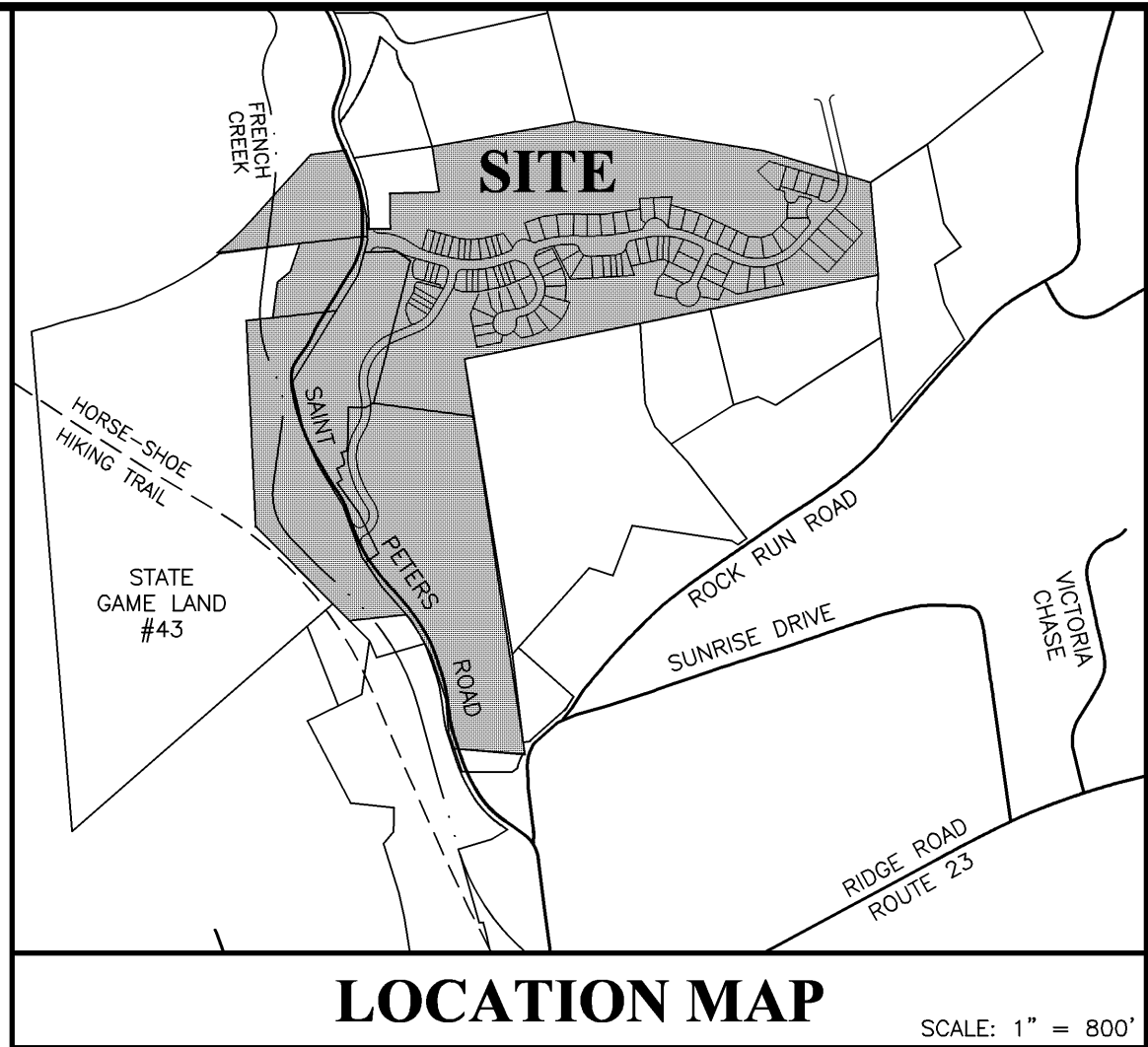
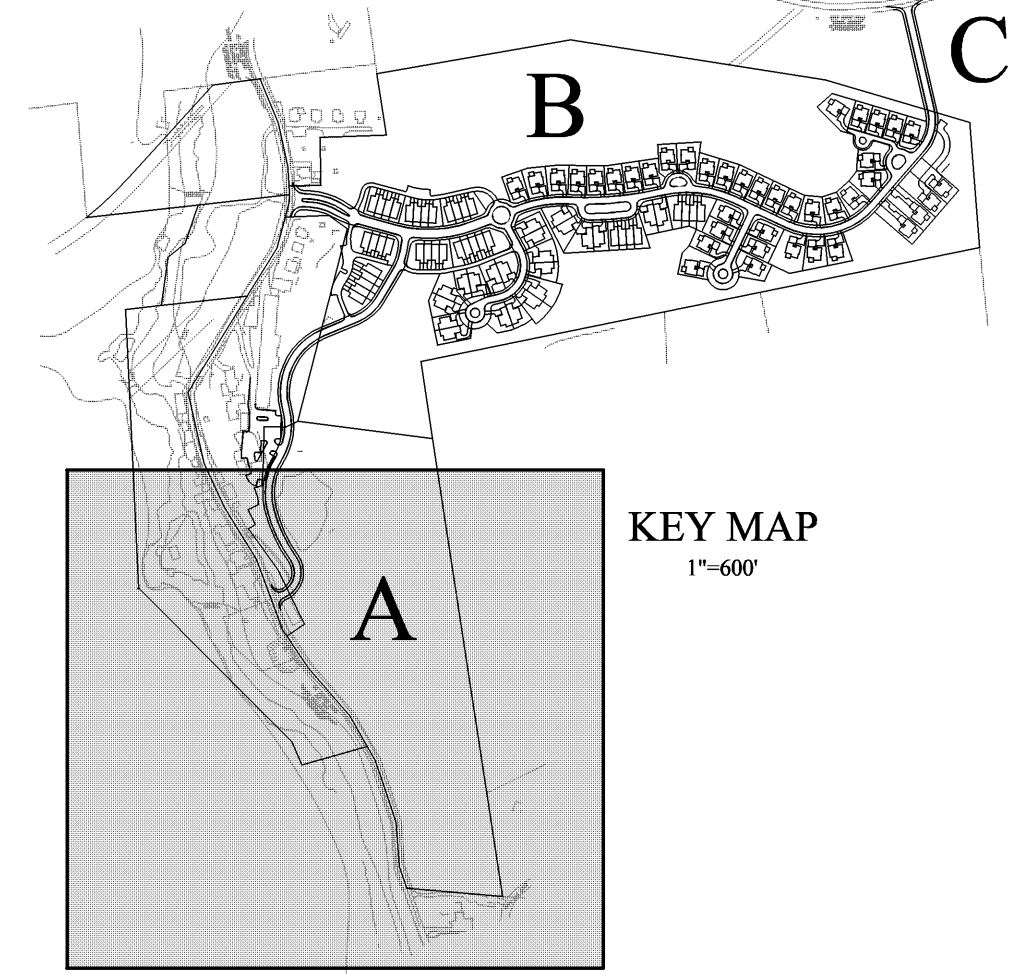
ANS FOR EXISTING SUBSURFACE UTILITY STRUCT
PLANS. NOR DOES EARTH ENTERPRISES GUARANT

BY THE LOCATION AND ELEVATION OF ALL UTILITIES AND STRUCTURES BEFORE THE START OF

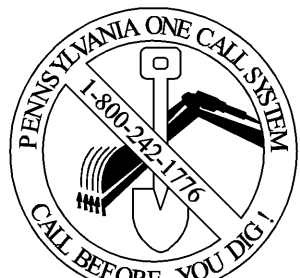
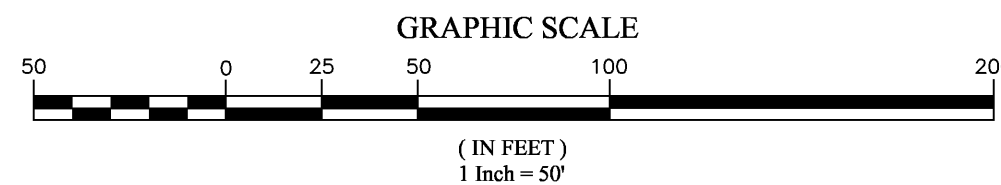
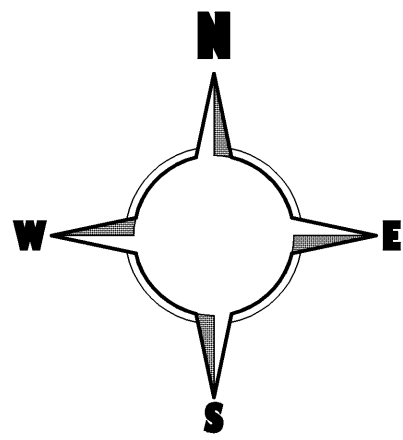
MATCH LINE (SEE SHEET 6B)

MATCH LINE (SEE SHEET 6B)

PHASE 1



- LEGEND:**
- EXISTING 2' CONTOUR
 - EXISTING 10' CONTOUR
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED UPRIGHT CURB
 - PROPOSED MOUNTABLE CURB
 - PROPOSED STORM STRUCTURES & PIPE
 - PROPOSED SANITARY MANHOLE & PIPE
 - PROPOSED SANITARY LATERAL
 - PROPOSED WATER LINE
 - PROPOSED WATER FORCE MAIN
 - PROPOSED LOW PRESSURE SEWER LINE
 - TEST PIT LOCATION AND NUMBER
 - WETLANDS BUFFER
 - STEEP SLOPE 25% - UP
 - PHASE 1



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:

Earth
Design Group

1345 Hays Hill Road,
Phoenixville, PA 19460
(P) 610.955.9200
(F) 610.955.9201

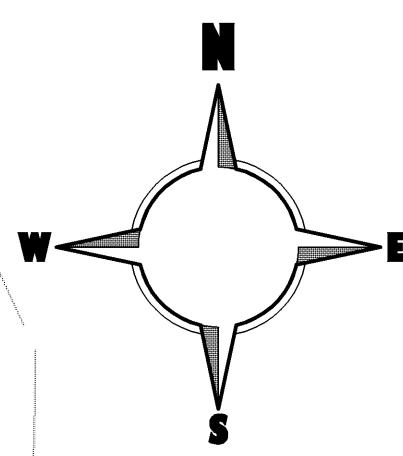
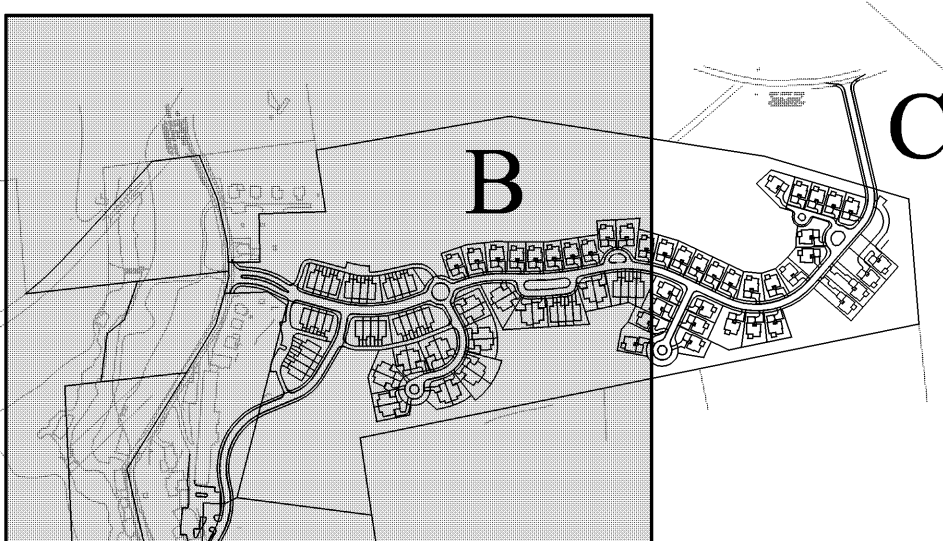
PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBURBAN UTILITY STRUCTURES SHOWN
ON THE PLANS. FOR EACH EARTH ENTERPRISES GUARANTEES THAT ALL
SUBURBAN UTILITY STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
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1	10/05/2006	REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

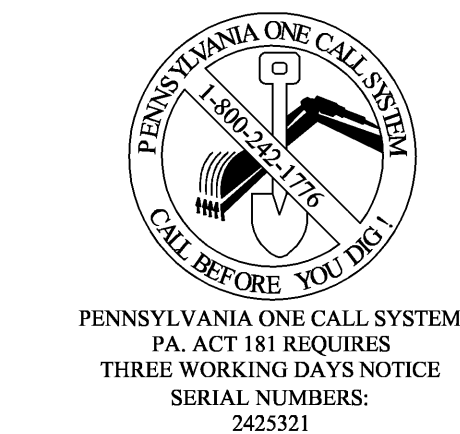
Rev.	Date	Description
FINAL UTILITY PLAN		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PRIZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		Project: 10001 Date: 09/05/2006 Scale: 1"=50' Drawn: TAH Checked: CAD

6A

OF 36



ST. PETERS ROAD
S.R. 4041
"MAJOR COLLECTOR ROAD"
33' EXISTING RIGHT OF WAY
20' ± EXISTING CARTRAY



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

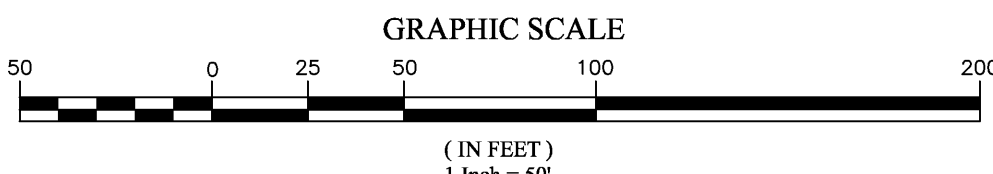
PENNSYLVANIA ACT BY REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLAN. FOR EXISTING SUBSURFACE UTILITY STRUCTURES, THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

MATCH LINE (SEE SHEET 6A)

MATCH LINE (SEE SHEET 6A)

PHASE 1

- LEGEND:**
- EXISTING 2' CONTOUR
 - EXISTING 10' CONTOUR
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED UPRIGHT CURB
 - PROPOSED MOUNTABLE CURB
 - PROPOSED STORM STRUCTURES & PIPE
 - PROPOSED SANITARY MANHOLE & PIPE
 - PROPOSED SANITARY LATERAL
 - PROPOSED WATER LINE
 - PROPOSED WATER FORCE MAIN
 - PROPOSED LOW PRESSURE SEWER LINE
 - TEST PIT LOCATION AND NUMBER
 - WETLANDS BUFFER
 - STEEP SLOPE 25% - UP
 - PHASE 1

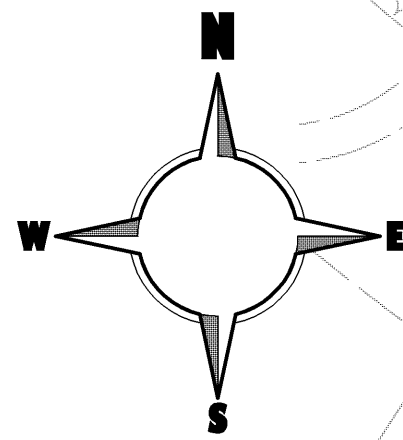


12	06/16/2008	ADD PHASING LINE
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7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
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2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

Rev.	Date	Description
FINAL UTILITY PLAN		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PUZZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		



1545 Haves Hill Road,
Phoenixville, PA 19400
(P) 610.935.9200
(F) 610.935.9201



MATCH LINE (SEE SHEET 09)

MATCH LINE (SEE SHEET 08)



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:



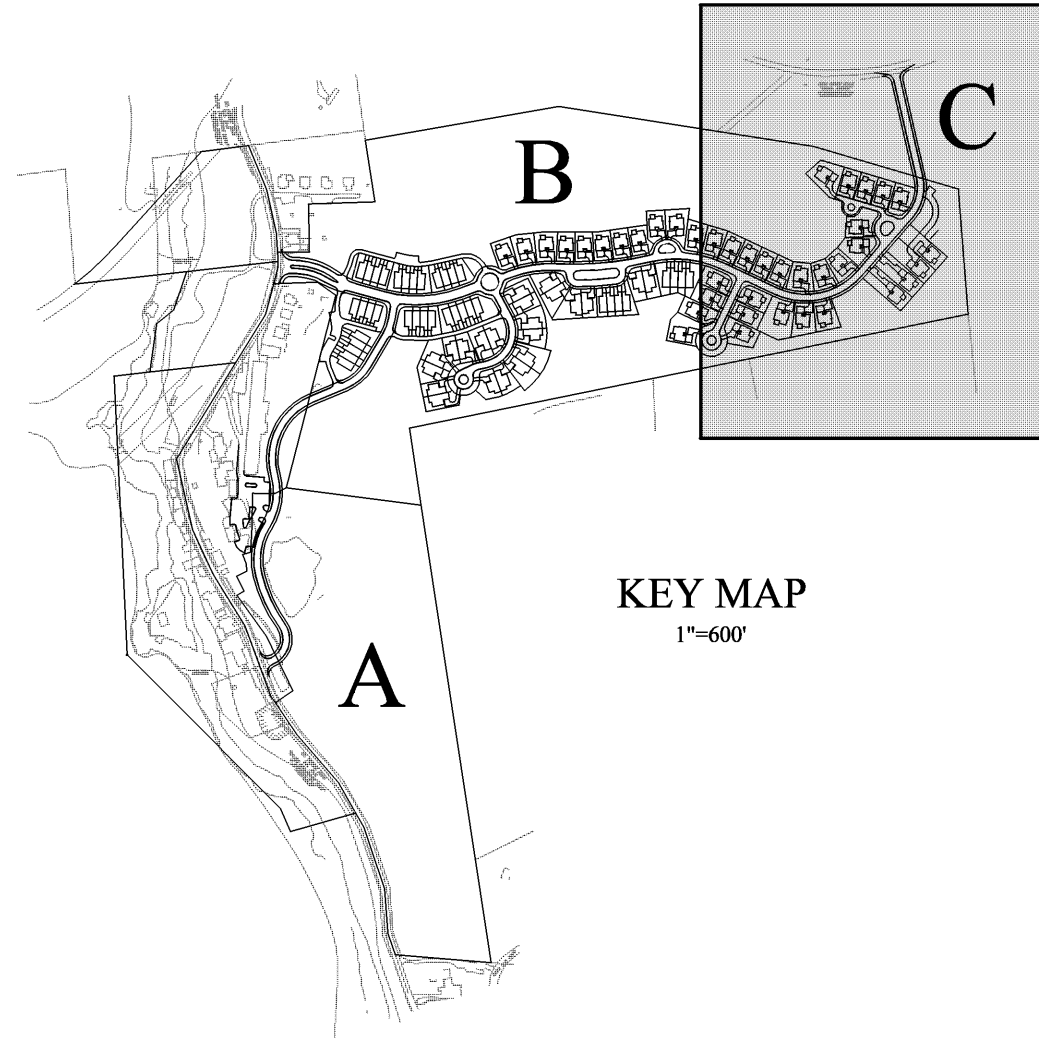
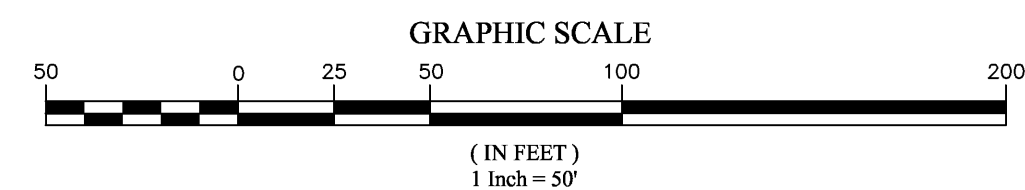
1545 Hares Hill Road,
Pleasantville, PA 19460
(P) 610.955.9200
(F) 610.955.9201

SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	SUITABLE FOR:			HYDRIC SOIL
							ROAD FILL	TOPSOIL	ON-SITE SEWAGE	
MbB	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MdD	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MfF	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A

LEGEND:

	EXISTING 2' CONTOUR
	EXISTING 10' CONTOUR
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED UPRIGHT CURB
	PROPOSED MOUNTABLE CURB
	PROPOSED STORM STRUCTURES & PIPE
	PROPOSED SANITARY MANHOLE & PIPE
	PROPOSED SANITARY LATERAL
	PROPOSED WATER LINE
	PROPOSED WATER FORCE MAIN
	PROPOSED LOW PRESSURE SEWER LINE
	TEST PIT LOCATION AND NUMBER
	WETLANDS BUFFER
	STEEP SLOPE 25% - UP
	PHASE 1



KEY MAP
1"=400'

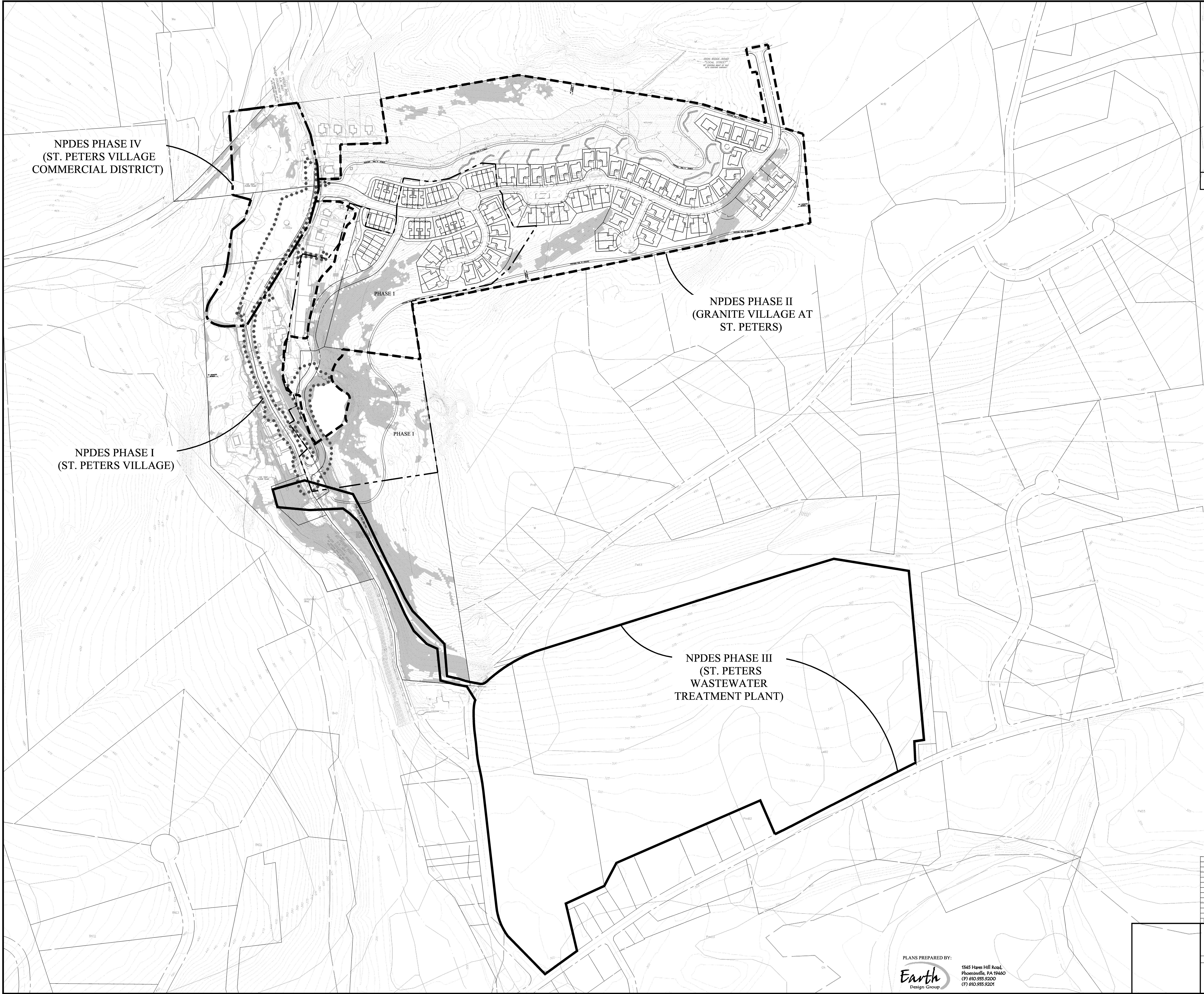
Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/06/2008
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
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7	07/31/2007	ADDED SPOIL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
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1	10/05/2006	REV PER TWP ENGR. LTR. DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

FINAL
UTILITY PLAN

PLAN OF SUBDIVISION
PHASE I
GRANITE VILLAGE
AT SAINT PETERS

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA	EARTH ENTERPRISES 1441 PUZZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900	Project: 10001 Date: 09/05/2006 Scale: 1"= 50' Drawn: TAH Checked: CAD
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6C
OF 36

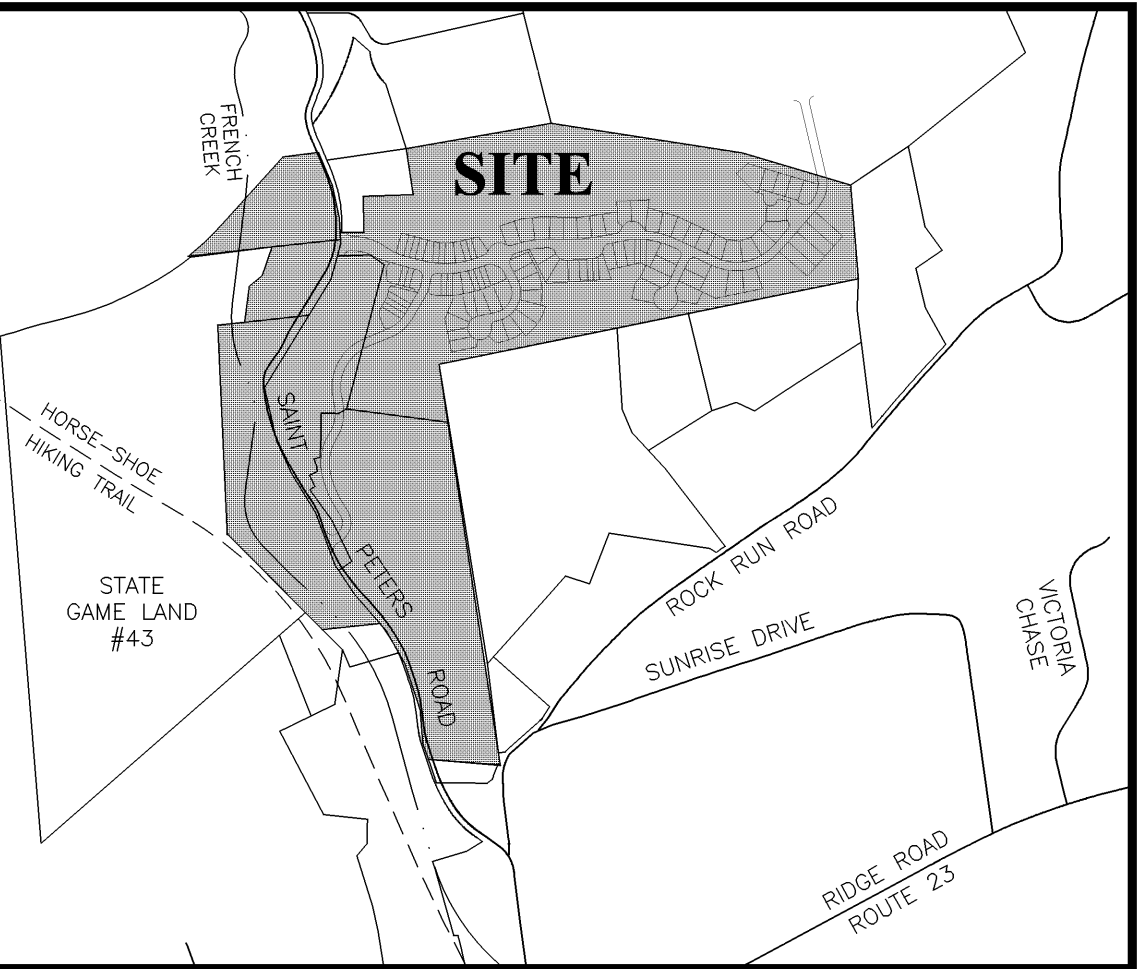


NPDES PHASE IV
(ST. PETERS VILLAGE
COMMERCIAL DISTRICT)

NPDES PHASE I
(ST. PETERS VILLAGE)

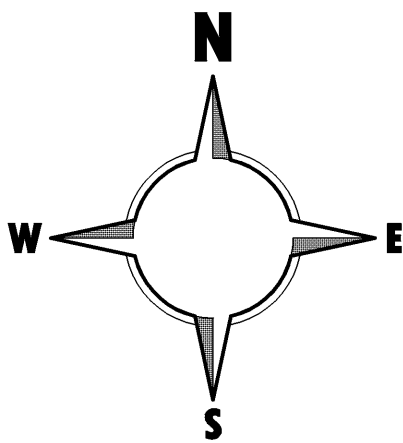
NPDES PHASE II
(GRANITE VILLAGE AT
ST. PETERS)

NPDES PHASE III
(ST. PETERS
WASTEWATER
TREATMENT PLANT)



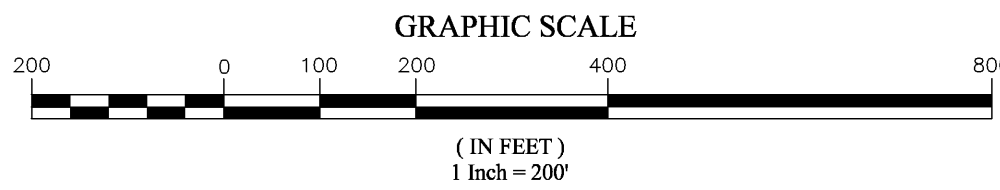
LOCATION MAP

SCALE: 1" = 800'



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
242331

PENNSYLVANIA ACT 187 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATION FOR EXISTING SUBURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS NOR DOES EARTH ENTERPRISES GUARANTEE THAT ALL
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12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
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9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SPILL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
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1	10/05/2006	REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

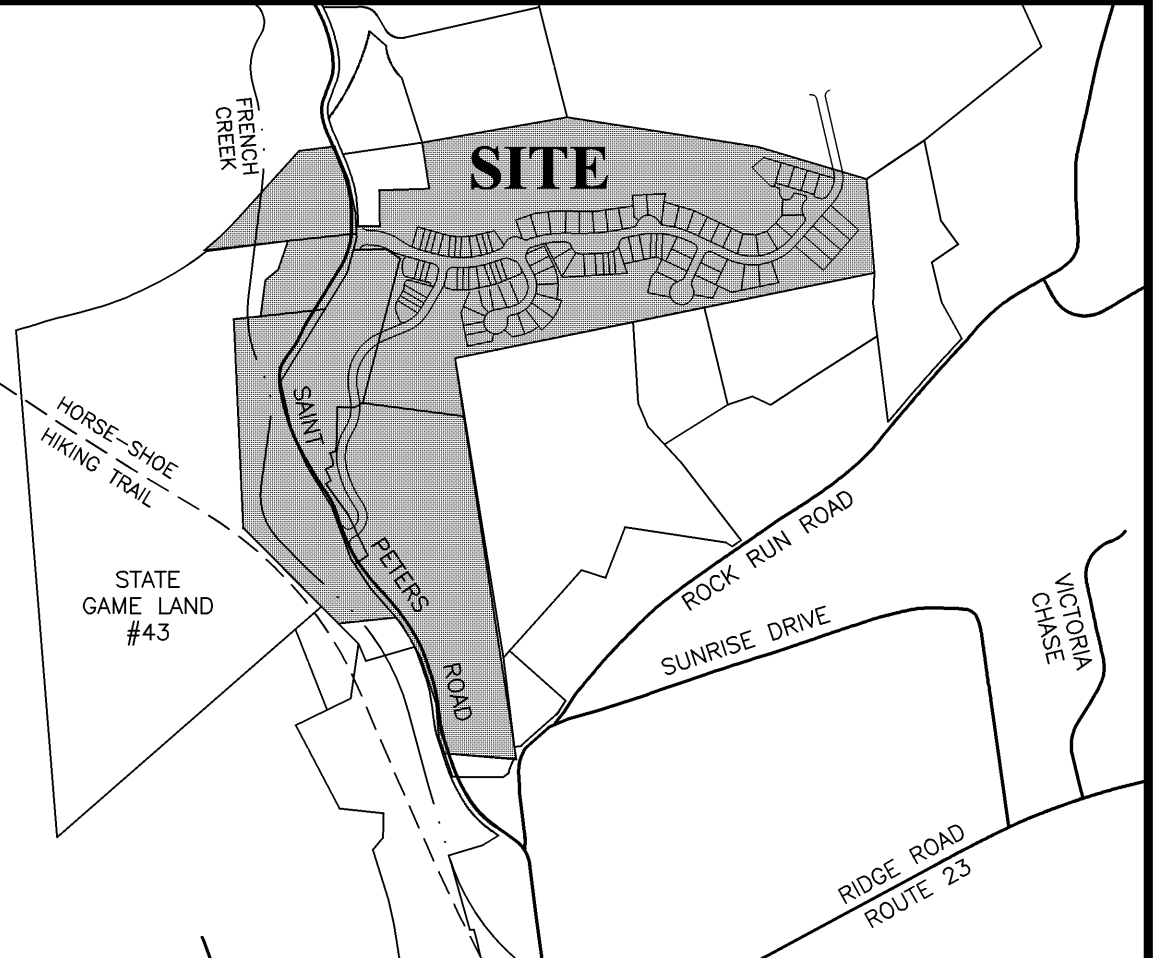
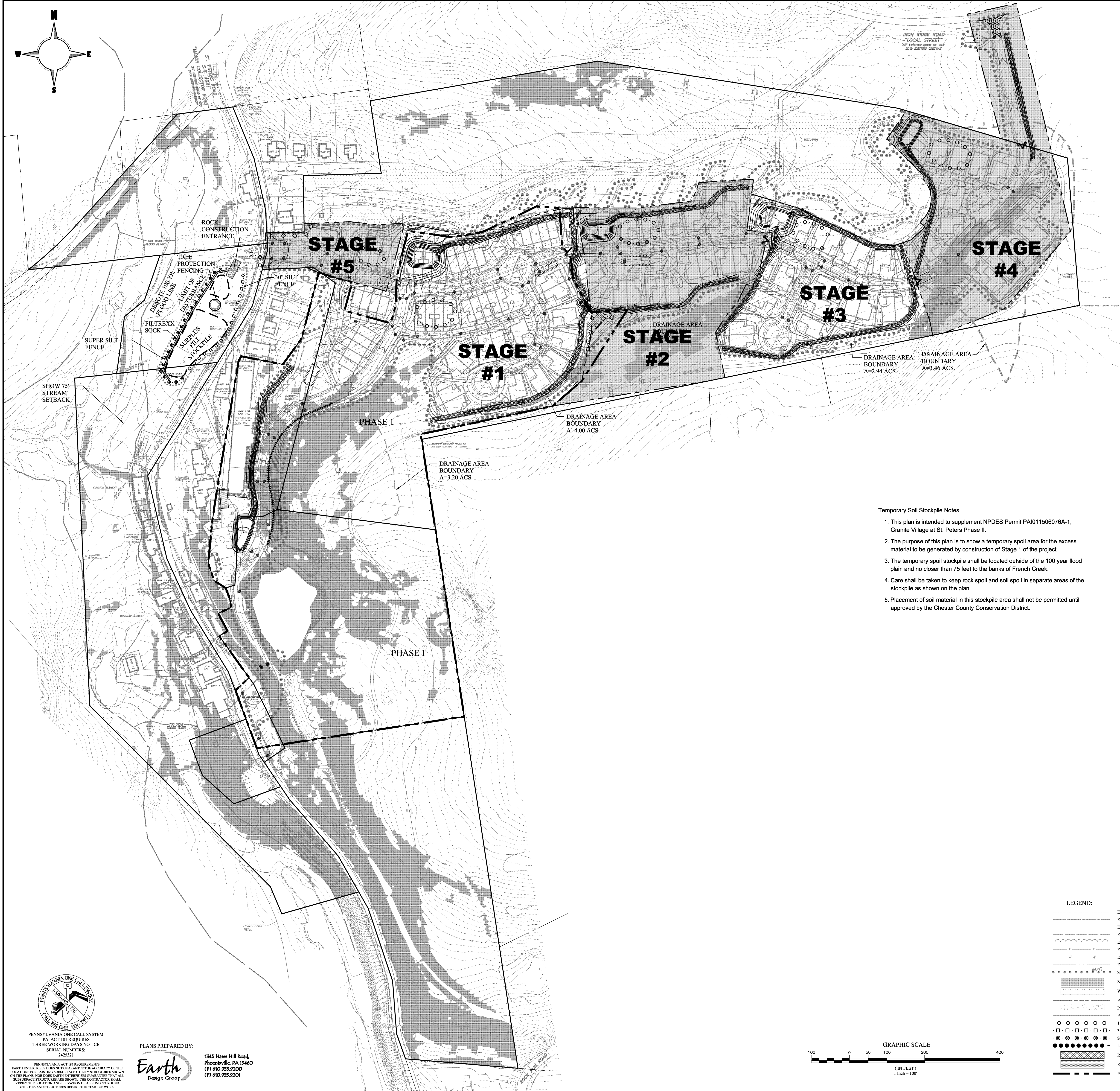
Rev.	Date	Description
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FINAL ST. PETERS VILLAGE OVERALL NPDES MASTER PLAN	PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA	
EARTH ENTERPRISES 1441 PUZZER ROAD PHOENIXVILLE, PA 19360 Phone: (610) 469-8800 Fax: (610) 469-8800	Project: 10001 Date: 09/05/2006 Scale: 1" = 200' Drawn: TAH Checked: CAD

PLANS PREPARED BY:



1545 Hare Hill Road,
Phoenixville, PA 19360
(717) 410-9552
(717) 410-9552



LOCATION MAP

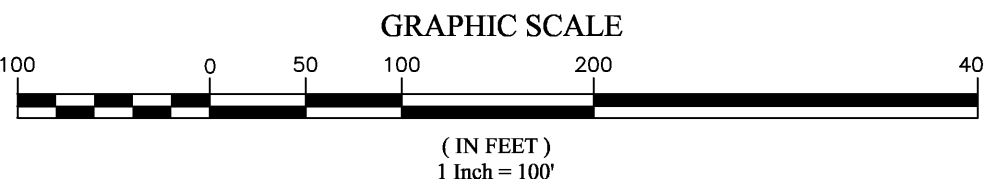
SCALE: 1" = 800'

Temporary Soil Stockpile Notes:

1. This plan is intended to supplement NPDES Permit PAI011506076A-1, Granite Village at St. Peters Phase II.
2. The purpose of this plan is to show a temporary spoil area for the excess material to be generated by construction of Stage 1 of the project.
3. The temporary spoil stockpile shall be located outside of the 100 year flood plain and no closer than 75 feet to the banks of French Creek.
4. Care shall be taken to keep rock spoil and soil spoil in separate areas of the stockpile as shown on the plan.
5. Placement of soil material in this stockpile area shall not be permitted until approved by the Chester County Conservation District.

LEGEND:

- EXISTING RIGHT OF WAY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING PAVING
- EXISTING TREELINE
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING STREAM LINE
- SOILS LINE & DESCRIPTION
- STEEP SLOPE 25%+ UP
- WETLANDS BUFFER
- PROPOSED RIGHT OF WAY
- PROPOSED SIDEWALK
- PROPOSED CURB
- 18" SILT FENCE
- 30" SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- PHASE I



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:



1545 Hares Hill Road,
Phoenixville, PA 19460
(P) 610.955.9200
(F) 610.955.9201

PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
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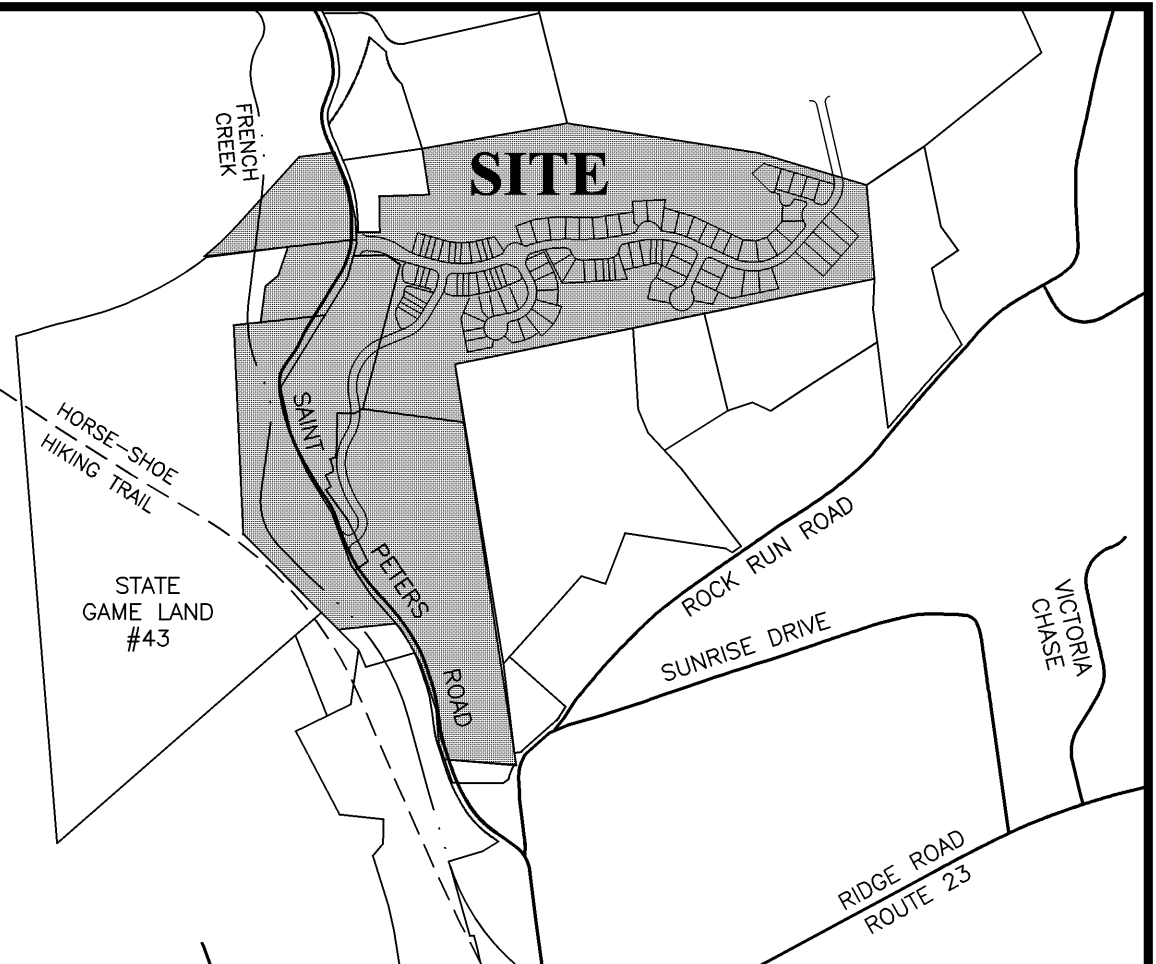
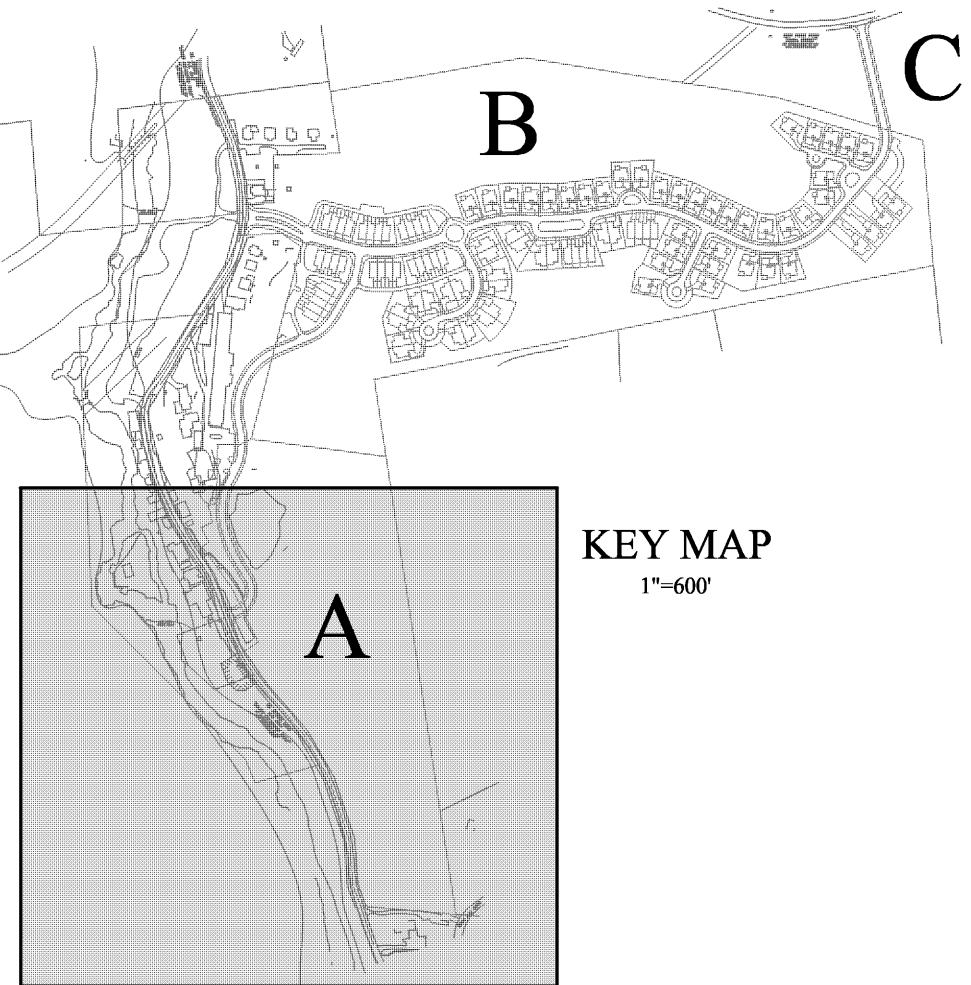
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6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCDD LETTER DATED 02/20/2007
4	01/26/2007	REVISION PER CCDD LETTER DATED 01/23/2007
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Rev.	Date	Description
FINAL OVERALL STAGING, EROSION & SEDIMENTATION CONTROL PLAN		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PUZZER ROAD PILGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
Project: 10001 Date: 09/05/2006 Scale: 1" = 100' Drawn: TAH Checked: CAD		

MATCH LINE (SEE SHEET 8B)

MATCH LINE (SEE SHEET 8B)

PHASE 1



SCALE: 1" = 800'

STORM STRUCTURE TOP OF GRATE ELEVATIONS

STRUCTURE	T.G.	STRUCTURE	T.G.	STRUCTURE	T.G.
2	390.15	31	436.00	59	497.34
3	390.15	32	444.22	60	497.69
4	401.80	33	453.95	61	497.69
5	406.22	34	453.95	62	501.29
6	405.94	35	455.60	63	508.66
7	405.94	36	455.70	64	508.66
8	407.70	37	456.70	65	498.33
9	411.38	38	462.05	66	498.33
10	411.38	39	470.52	67	503.11
11	421.12	40	470.52	68	505.00
12	421.12	41	478.90	69	512.85
13	419.80	42	481.05	70	512.85
14	420.30	43	483.00	71	519.08
15	430.85	44	456.58	72	517.03
16	432.35	45	457.50	73	517.03
17	432.35	46	458.68	74	513.76
18	435.50	47	460.00	75	513.76
19	434.00	47A	460.75	76	403.35
20	429.50	48	459.12	77	403.35
21	425.80	49	461.59	79	410.46
22	437.45	50	464.31	80	410.46
23	438.20	51	463.74	81	418.50
24	450.00	52	465.50	82	418.50
25	440.00	53	471.25	83	424.00
26	447.20	54	477.88	84	426.00
27	455.50	55	477.88	85	509.00
28	433.98	56	486.09	86	509.10
29	433.90	57	489.23	87	509.10
30	436.00	58	489.23		

SEE PLAN AND PROFILE SHEETS 9A-9D FOR FINAL TOP OF GRATE INFORMATION.

LEGEND:

- EXISTING RIGHT OF WAY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING PAVING
- EXISTING TREELINE
- EXISTING ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING STREAM LINE
- SOILS LINE & DESCRIPTION
- STEEP SLOPE 25% - UP
- WETLANDS BUFFER
- PROPOSED RIGHT OF WAY
- PROPOSED SIDEWALK
- PROPOSED CURB
- 18" SILT FENCE
- 30" SILT FENCE
- SUPER SILT FENCE
- ORANGE CONSTRUCTION FENCE
- LIMIT OF DISTURBANCE
- FILTER SOCK
- VEGETATIVE FILTER BERM
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET FOR SLOPES
- SWALE LINING (SEE DETAIL ON SHEET 8B FOR TYPE)
- INLET SEDIMENT FILTER
- INLET DEFLECTOR BERM
- PHASE 1

NOTE: EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.

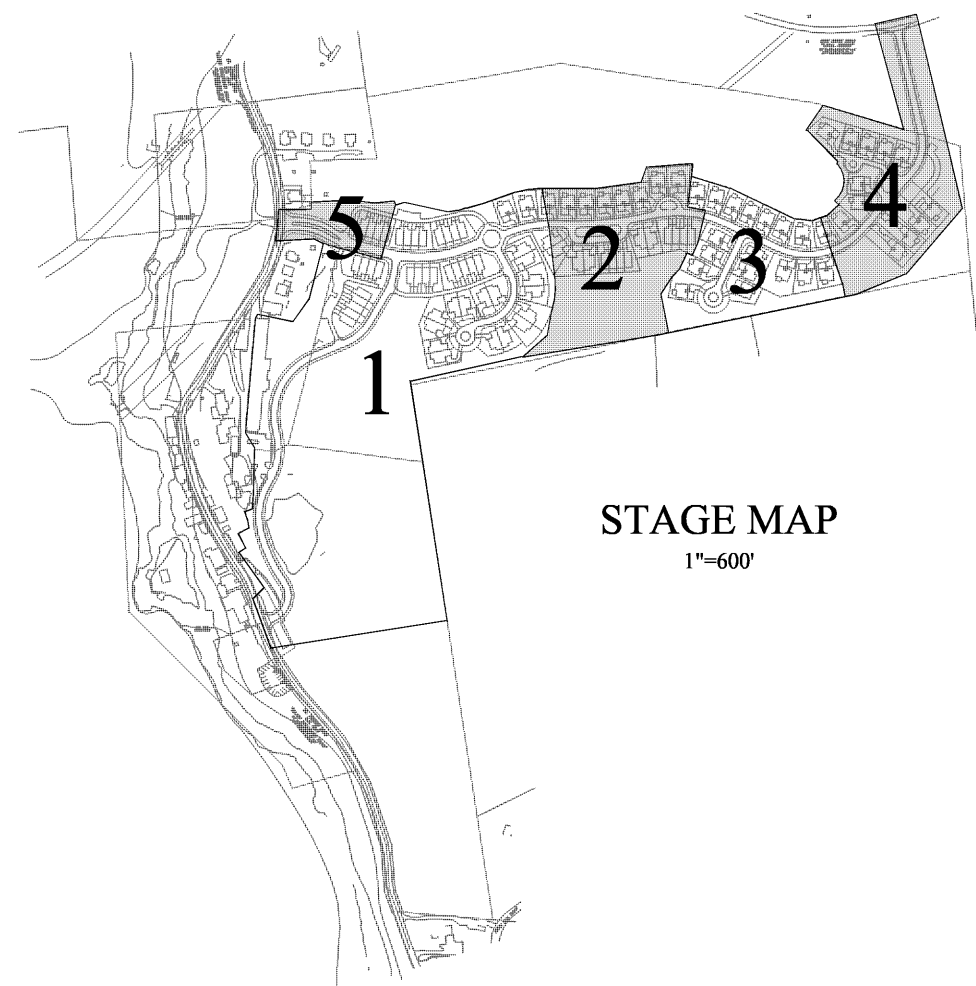
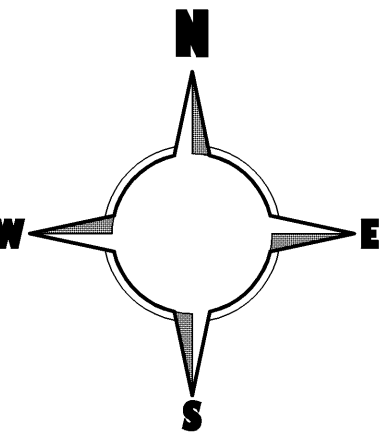
OVERALL SITE CONSTRUCTION

12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/06/2008
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP. ENCL. LTR DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

Rev.	Date	Description
FINAL EROSION AND SEDIMENTATION CONTROL PLAN		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PRIZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		

8A

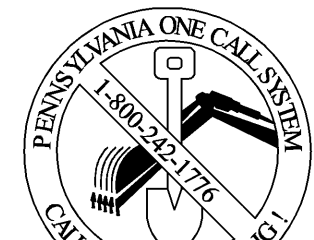
OF 36



STAGE MAP 1"

SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	SUITABLE FOR:			HYDRIC SOIL
							ROAD FILL	TOPSOIL	ON-SITE SEWAGE	
Mb	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Md	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Mf	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A

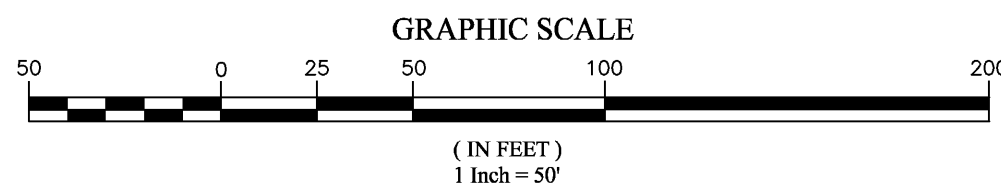


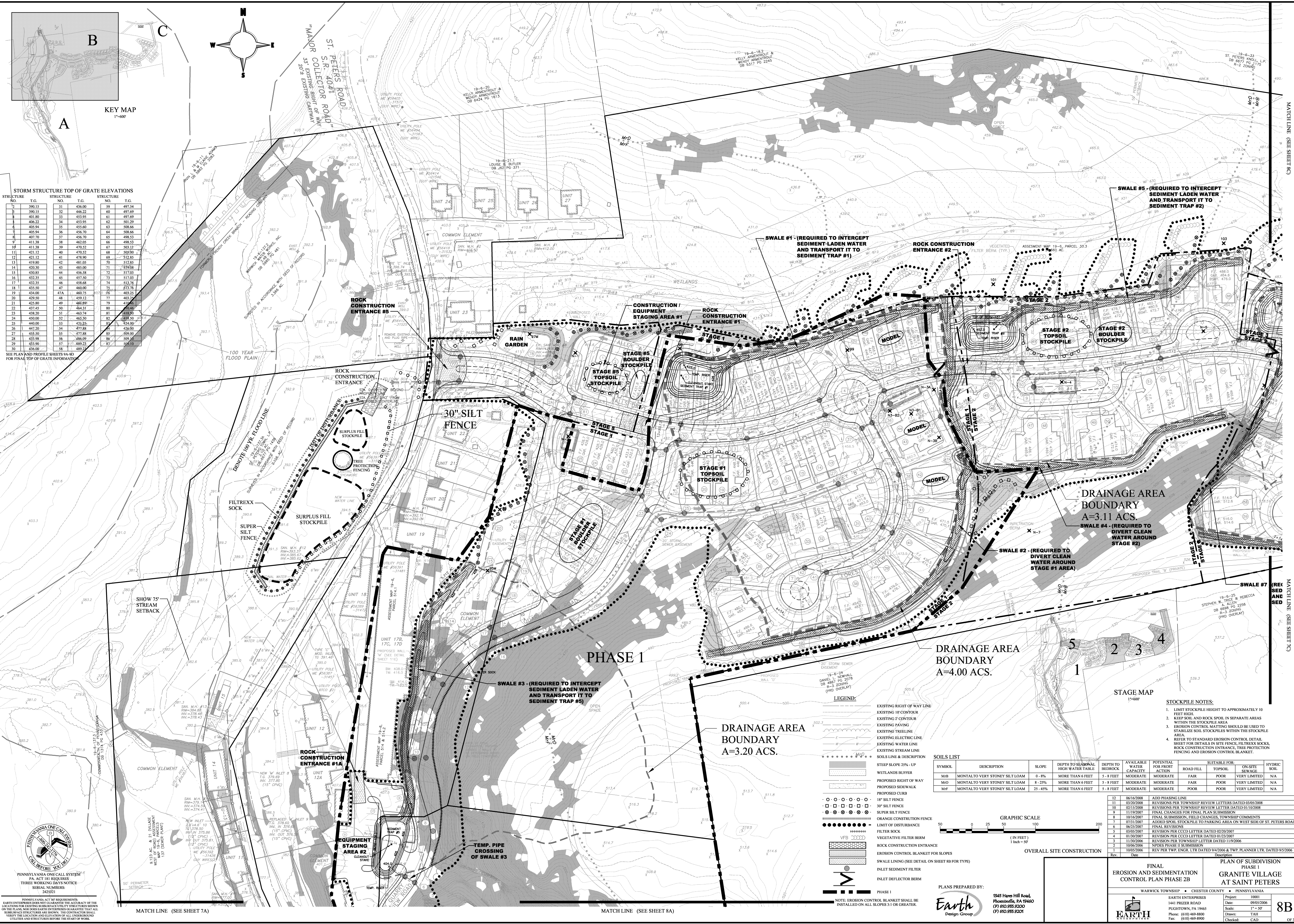
PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:



1945 Hares Hill Road,
Phoenixville, PA 19460
(P) 610.955.9200
(F) 610.955.9201





STORM STRUCTURE TOP OF GRATE ELEVATIONS

STRUCTURE NO.	T.G.	STRUCTURE NO.	T.G.	STRUCTURE NO.	T.G.
1	390.15	31	436.00	59	497.54
2	390.15	32	446.22	60	497.69
3	401.80	33	453.95	61	497.69
4	406.22	34	453.95	62	501.29
5	405.94	35	453.60	63	508.66
6	405.94	36	456.70	64	508.66
7	407.70	37	456.70	65	498.53
8	411.38	38	462.05	66	498.53
9	411.38	39	470.52	67	503.17
10	411.38	40	470.52	68	509.00
11	421.12	41	478.90	69	512.85
12	421.12	42	481.05	70	512.85
13	419.80	43	483.00	71	519.08
14	420.30	44	486.58	72	517.03
15	430.83	45	457.50	73	517.03
16	432.55	46	458.68	74	515.76
17	432.55	47	460.00	75	515.76
18	435.50	48	459.12	76	403.25
19	434.00	49	461.90	77	403.25
20	429.50	50	464.31	78	403.25
21	425.80	51	463.74	79	403.25
22	437.43	52	465.50	80	418.80
23	438.20	53	473.25	81	418.80
24	450.00	54	477.88	82	424.00
25	460.00	55	477.88	83	426.00
26	447.20	56	484.09	84	509.00
27	455.50	57	489.23	85	509.00
28	433.90	58	489.23	86	509.00
29	436.00	59	489.23	87	509.00

SEE PLAN AND PROFILE SHEETS A-10 FOR FINAL TOP OF GRATE INFORMATION.

SHOW 75' STREAM SETBACK

SEAL AND STAMP: PENNSYLVANIA ONE CALL SYSTEM, PA ACT 181, THREE WORKING DAYS NOTICE, SERIAL NUMBER: 2425521

CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

MATCH LINE (SEE SHEET 7A)

MATCH LINE (SEE SHEET 8A)

MATCH LINE (SEE SHEET 8C)

MATCH LINE (SEE SHEET 7D)

LEGEND

- EXISTING RIGHT OF WAY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING PAVING
- EXISTING TREELINE
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING STREAM LINE
- SOILS LINE & DESCRIPTION
- STEEP SLOPE 25%+ UP
- WETLANDS BUFFER
- PROPOSED RIGHT OF WAY
- PROPOSED SIDEWALK
- PROPOSED CURB
- 18" SILT FENCE
- 30" SILT FENCE
- SUPER SILT FENCE
- ORANGE CONSTRUCTION FENCE
- LIMIT OF DISTURBANCE
- FILTER SOCK
- VEGETATIVE FILTER BERM
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET FOR SLOPES
- INLET SEDIMENT FILTER
- INLET DEFLECTOR BERM

SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	ROAD FILL	SUITABLE FOR: TOPSOIL	ON-SITE SEWAGE	HYDRIC SOIL
Mh	MONTALTO VERY STONEY SILT LOAM	0-8%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Md	MONTALTO VERY STONEY SILT LOAM	8-23%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
Mf	MONTALTO VERY STONEY SILT LOAM	25-45%	MORE THAN 6 FEET	5-8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A



OVERALL SITE CONSTRUCTION

PLANS PREPARED BY:



1545 Haver Hill Road, Pottsville, PA 19400 (P) 610.955.9200 (F) 610.955.9201

STOCKPILE NOTES:

- LIMIT STOCKPILE HEIGHT TO APPROXIMATELY 10 FEET HIGH
- KEEP SOIL AND ROCK SPOIL IN SEPARATE AREAS WITHIN THE STOCKPILE AREA
- EROSION CONTROL MATTING SHOULD BE USED TO STABILIZE SOIL STOCKPILES WITHIN THE STOCKPILE AREA
- REFER TO STANDARD EROSION CONTROL DETAIL SHEET FOR DETAILS IN SITE FENCE, FILTER SOCKS, ROCK CONSTRUCTION ENTRANCE, TREE PROTECTION FENCING AND EROSION CONTROL BLANKET

REVISIONS: 12 06/16/2008 ADD PHASING LINE, 11 03/20/2008 REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008, 10 02/15/2008 REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08, 9 11/19/2007 FINAL CHANGES FOR FINAL PLAN SUBMISSION, 8 10/16/2007 FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS, 7 07/31/2007 ADDED SOIL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD, 6 06/25/2007 FINAL REVISIONS, 5 03/05/2007 REVISION PER CDD LETTER DATED 02/20/2007, 4 01/20/2007 REVISION PER CDD LETTER DATED 01/23/2007, 3 11/30/2006 REVISION PER TOWNSHIP REVIEW LETTER DATED 11/29/2006, 2 10/08/2006 NPDES PHASE II SUBMISSION, 1 10/05/2006 REV PER TWP ENCL. LTR DATED 9/4/2006 & TWP PLANNER LTR DATED 9/5/2006

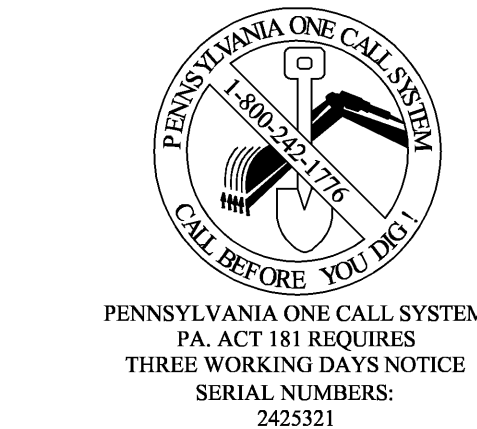
FINAL EROSION AND SEDIMENTATION CONTROL PLAN PHASE 2B

PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA

EARTH ENTERPRISES 1441 PUZZER ROAD PLUGHURSTOWN, PA 19405 Phone: (610) 469-8900 Fax: (610) 469-8900

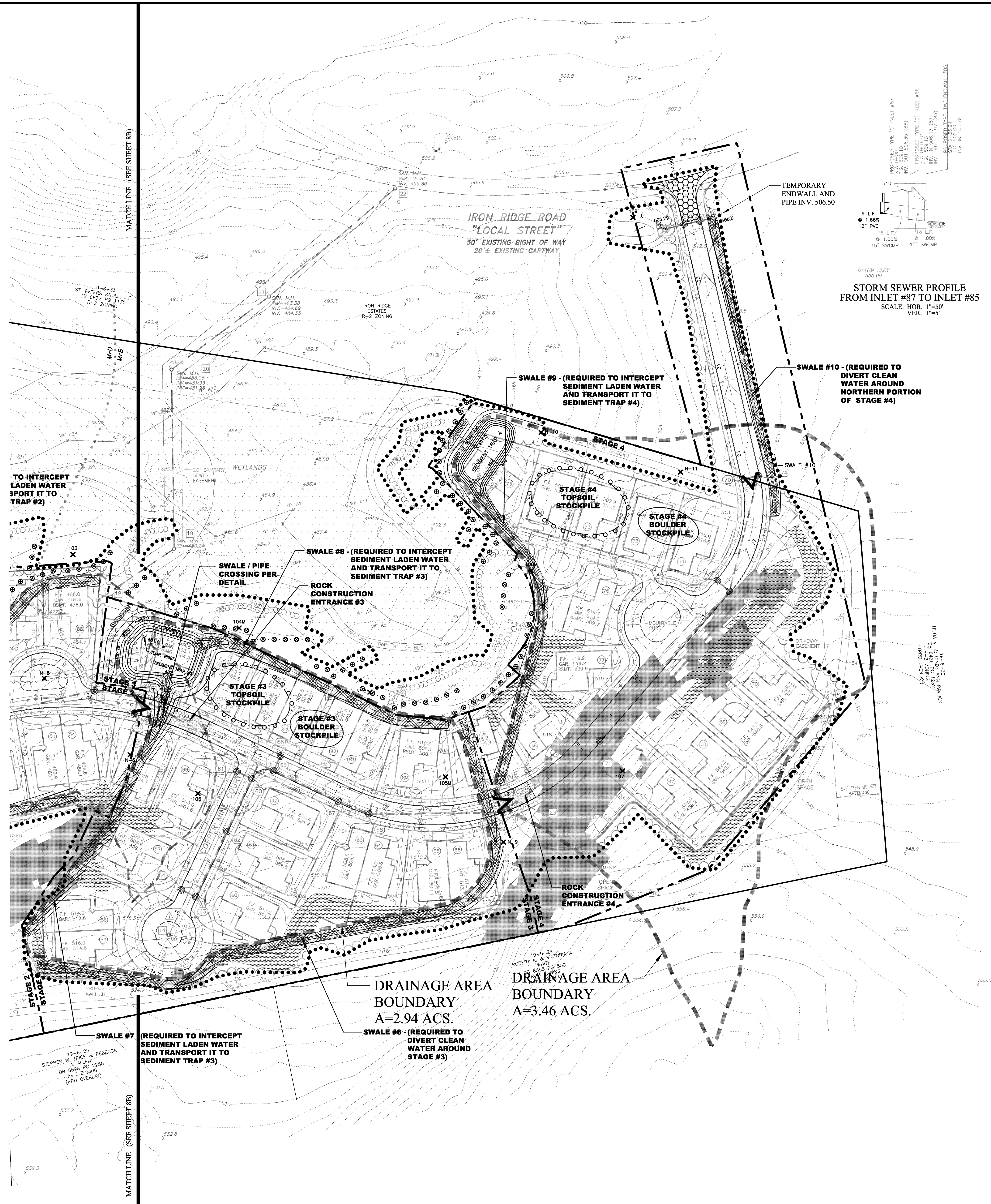
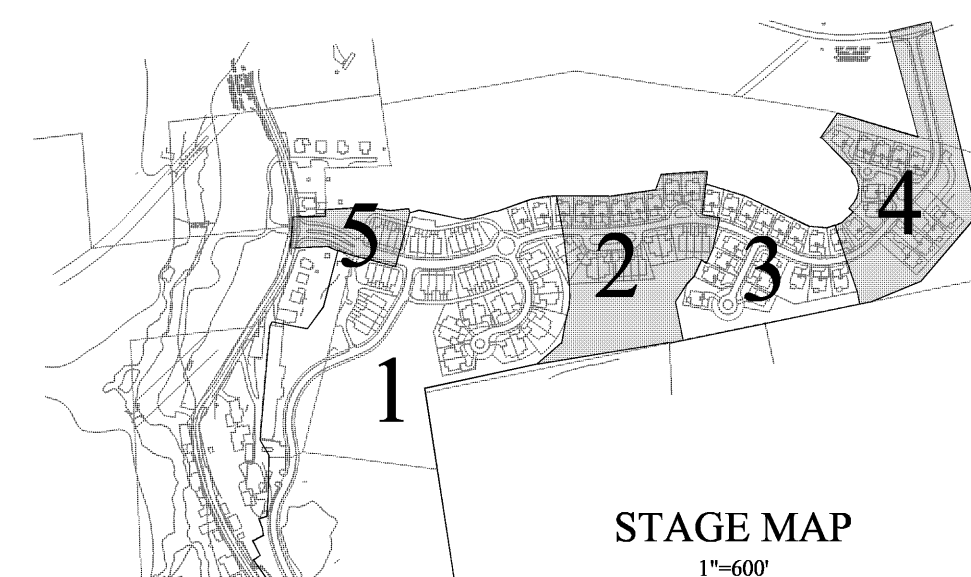
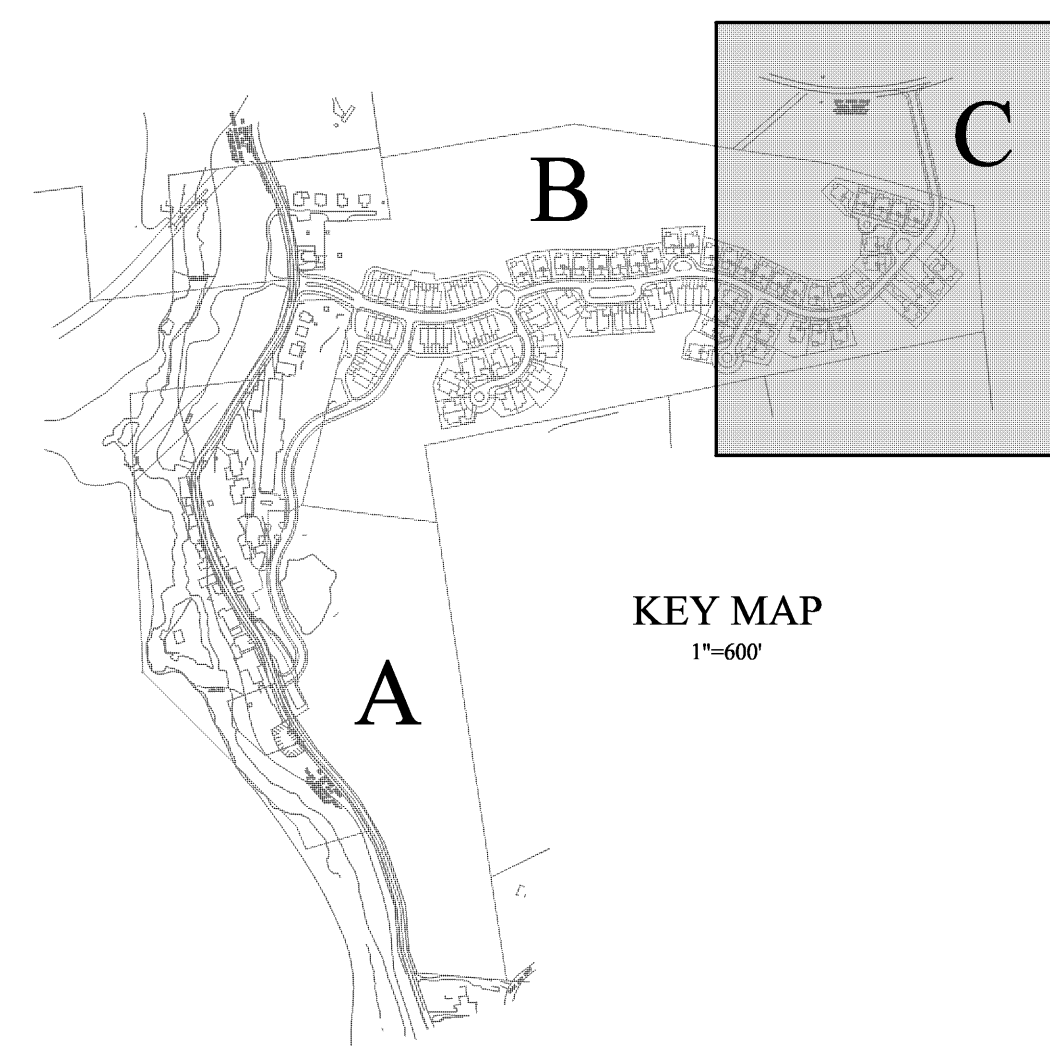
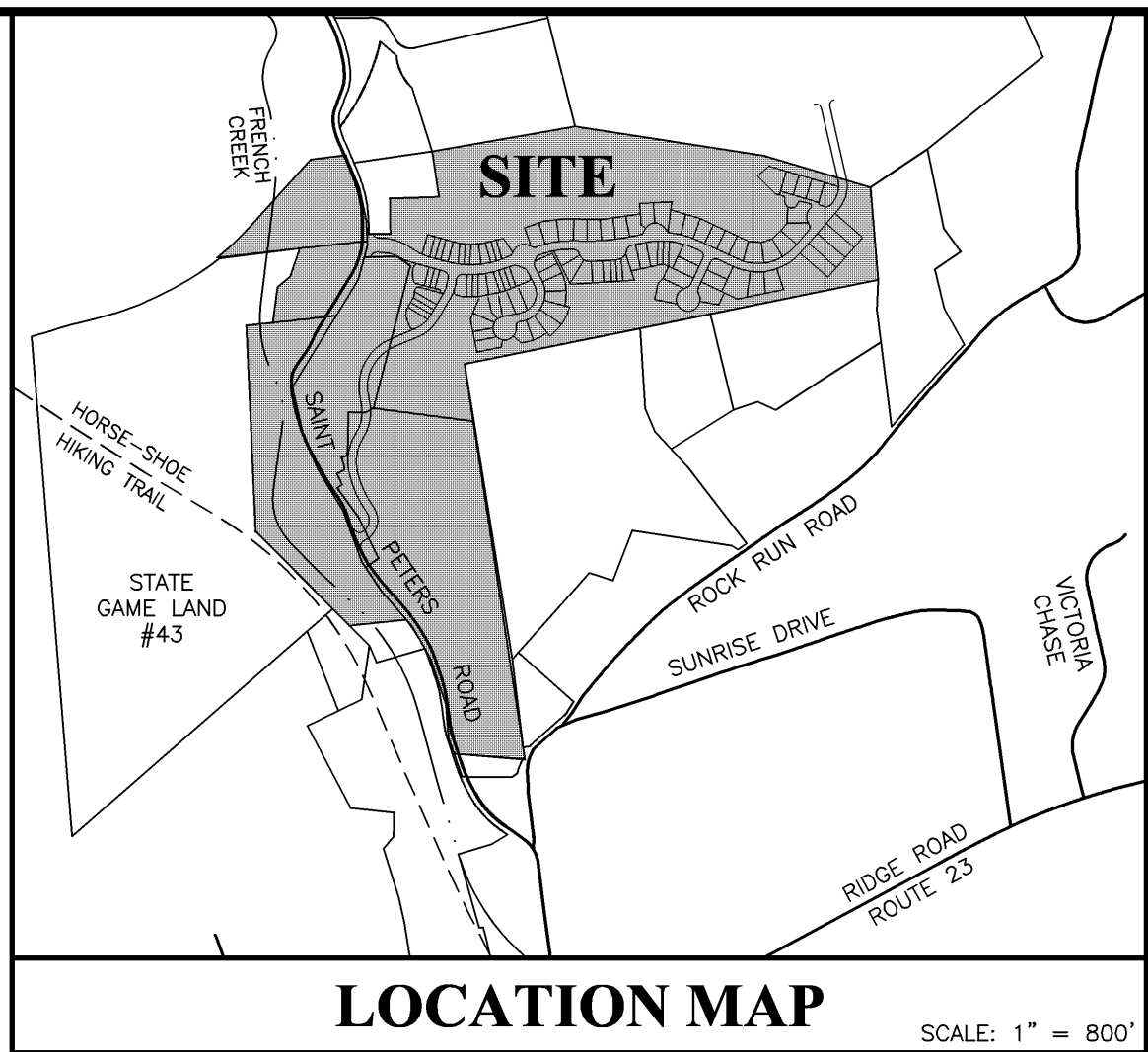
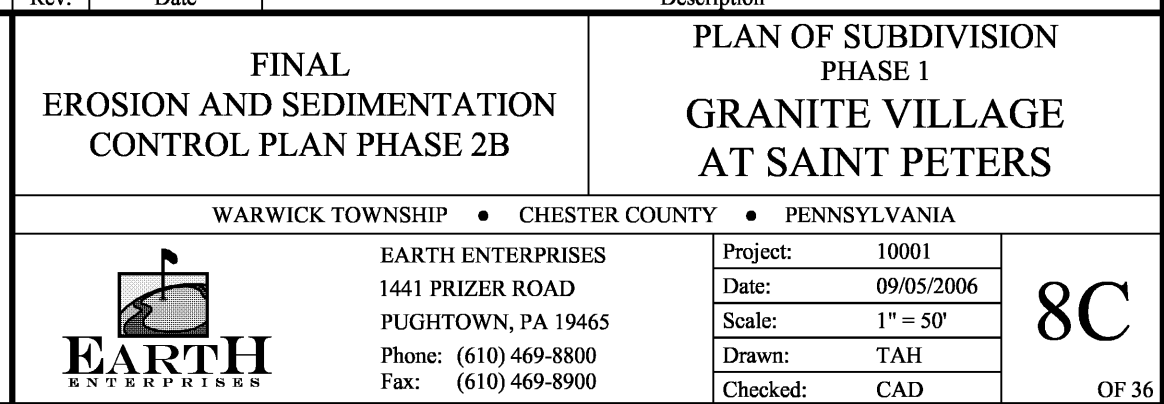
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD



PENNSYLVANIA ACT 187 REQUIREMENTS:
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS. NEITHER EARTH ENTERPRISES GUARANTEES THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

1345 Hares Hill Road,
Phoenixville, PA 19460
(P) 610.935.9200
(F) 610.935.9201

SOILS LIST										
SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	ROAD FIL	SUITABLE FOR:		HYDRIC SOIL
								TOPSOIL	ON-SITE STORAGE	
Mb	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	FAIR	POOR	VERY LIMITED	N/A
Md	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	FAIR	POOR	VERY LIMITED	N/A
Mf	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	Moderate	Moderate	POOR	POOR	VERY LIMITED	N/A



STORM STRUCTURE TOP OF GRADE ELEVATIONS					
STRUCTURE NO.	STRUCTURE NO.		STRUCTURE NO.		T.G.
	T.G.	T.G.	T.G.	T.G.	
2	390.15	31	436.00	59	497.54
3	390.15	32	446.22	60	497.69
4	401.89	33	453.95	61	497.69
5	401.89	34	453.95	62	501.29
6	403.94	35	455.60	63	508.66
7	403.94	36	456.70	64	508.66
8	407.10	37	466.05	65	498.53
9	411.38	38	462.05	66	498.53
10	411.38	39	470.52	67	503.11
11	421.12	40	478.00	68	505.00
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17	432.35	46	458.68	74	513.76
18	432.35	47	460.00	75	513.76
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20	434.00	48	459.12	77	403.25
21	429.59	49	461.60	78	401.46
22	437.45	50	464.31	80	416.46
23	438.20	51	463.74	81	418.50
24	440.00	52	466.00	82	424.50
25	440.00	53	471.25	83	424.00
26	447.20	54	477.88	84	424.00
27	453.50	55	477.88	85	509.00
28	433.98	56	486.09	86	509.10
29	433.98	57	489.23	87	509.10

SEE PLAN AND PROFILE SHEETS 9A-9D
FOR FINAL TOP OF GRATE INFORMATION.

LEGEND:

EXISTING RIGHT OF WAY LINE

EXISTING 10' CONTOUR

EXISTING 2' CONTOUR

EXISTING PAVING

EXISTING TREELINE

EXISTING ELECTRIC LINE

EXISTING WATER LINE

EXISTING STREAM LINE

SOILS LINE & DESCRIPTION

.....

STEEP SLOPE 25% - UP

WETLANDS BUFFER

PROPOSED RIGHT OF WAY

PROPOSED SIDEWALK

PROPOSED CURB

18" SILT FENCE

30" SILT FENCE

SURGE SILT FENCE

ORANGE CONSTRUCTION FENCE

LIMIT OF DISTURBANCE

FILTER SOCK

VEGETATIVE FILTER BERM

ROCK CONSTRUCTION ENTRANCE

EROSION CONTROL BLANKET FOR SLOPES

SWALE LINING (SEE DETAIL ON SHEET 88 FOR TYPE)

INLET SEDIMENT FILTER

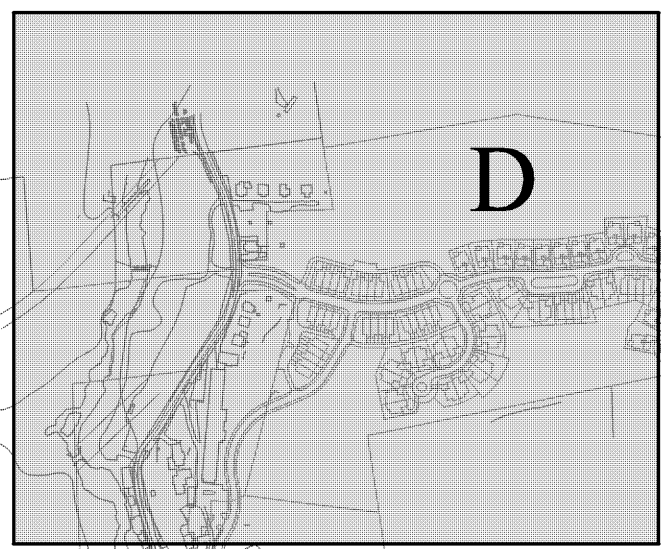
INLET DEFLECTOR BERM

PHASE 1

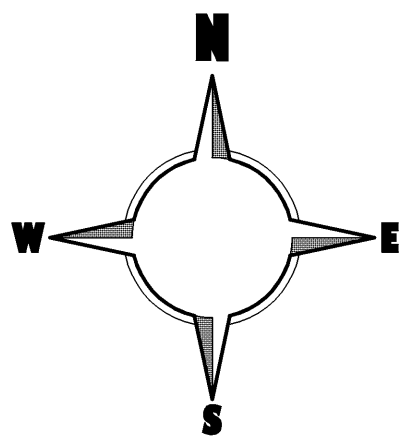
NOTE: EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.

OVERALL SITE CONSTRUCTION

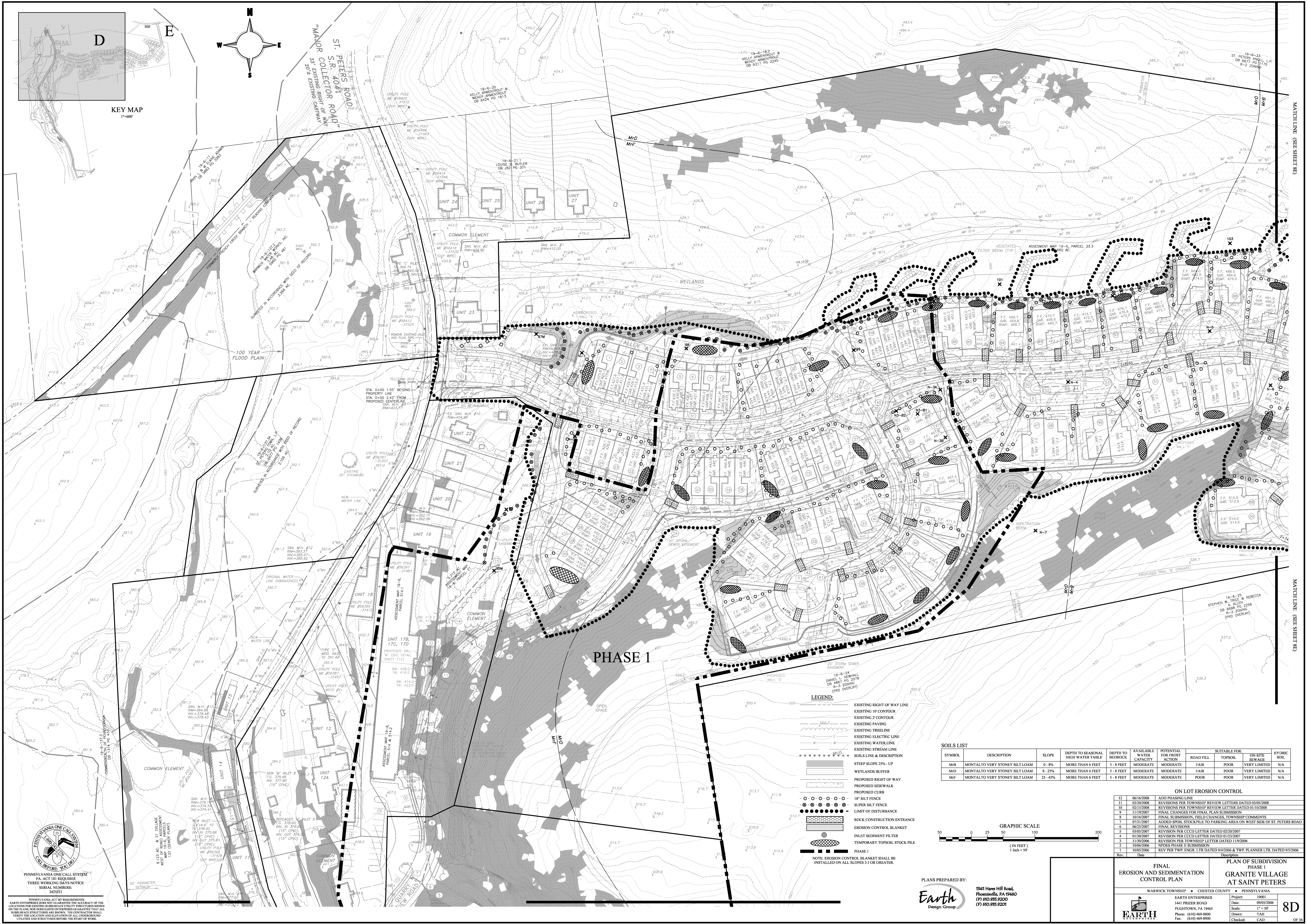
12	06/16/2008	ADD PHASING LINE
11	03/29/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/01/2008
9	10/13/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	07/16/2007	FINAL SUBMISSION, FIELD CHANGING WORKSHOP COMMENTS
7	07/31/2007	ADDED SLOPE STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CDD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CDD LETTER DATED 01/23/2007
3	11/29/2006	REVISION PER TOWNSHIP LETTER DATED 11/19/2006
2	10/06/2006	NIDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP. ENGR. LTR DATED 9/4/2006 & TWP. PLANNER LTR DATED 9/5/2006



KEY MAP
1"=600'



ST. PETERS ROAD
S.R. 401
MAJOR COLLECTOR ROAD
33' EXISTING RIGHT OF WAY
20' ± EXISTING CARRIAGE



PHASE 1

LEGEND:

- EXISTING RIGHT OF WAY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING PAVING
- EXISTING TREE LINE
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING STREAM LINE
- SOILS LINE & DESCRIPTION
- STEEP SLOPE 25% - UP
- WETLANDS BUFFER
- PROPOSED RIGHT OF WAY
- PROPOSED SIDEWALK
- PROPOSED CURB
- 18" SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- INLET SEDIMENT FILTER
- TEMPORARY TOPSOIL STOCK PILE

NOTE: EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.

SOILS LIST

SYMBOL	DESCRIPTION	SLOPE	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO BEDROCK	AVAILABLE WATER CAPACITY	POTENTIAL FOR FROST ACTION	ROAD FILL	SUITABLE FOR TOPSOIL	ON-SITE SEWAGE	HYDRIC SOIL
MbB	MONTALTO VERY STONEY SILT LOAM	0 - 8%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MbD	MONTALTO VERY STONEY SILT LOAM	8 - 25%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	FAIR	POOR	VERY LIMITED	N/A
MbF	MONTALTO VERY STONEY SILT LOAM	25 - 45%	MORE THAN 6 FEET	5 - 8 FEET	MODERATE	MODERATE	POOR	POOR	VERY LIMITED	N/A

GRAPHIC SCALE



PLANS PREPARED BY:

Earth
Design Group

1545 Hines Hill Road
Plymouth, PA 15460
(P) 610.295.9200
(F) 610.295.9201

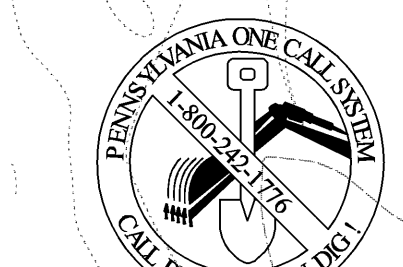
ON LOT EROSION CONTROL

Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/08/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP ENGR. LTR. DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

FINAL
EROSION AND SEDIMENTATION
CONTROL PLAN

PLAN OF SUBDIVISION
PHASE I
GRANITE VILLAGE
AT SAINT PETERS

WARWICK TOWNSHIP	CHESTER COUNTY	PENNSYLVANIA
EARTH ENTERPRISES 1441 PRUITT ROAD PLYMOUTH, PA 15465 Phone: (610) 469-8800 Fax: (610) 469-8900	Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD	8D



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425521

PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES HAS GUARANTEED THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLAN. FOR YOUR PROTECTION, WE GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.



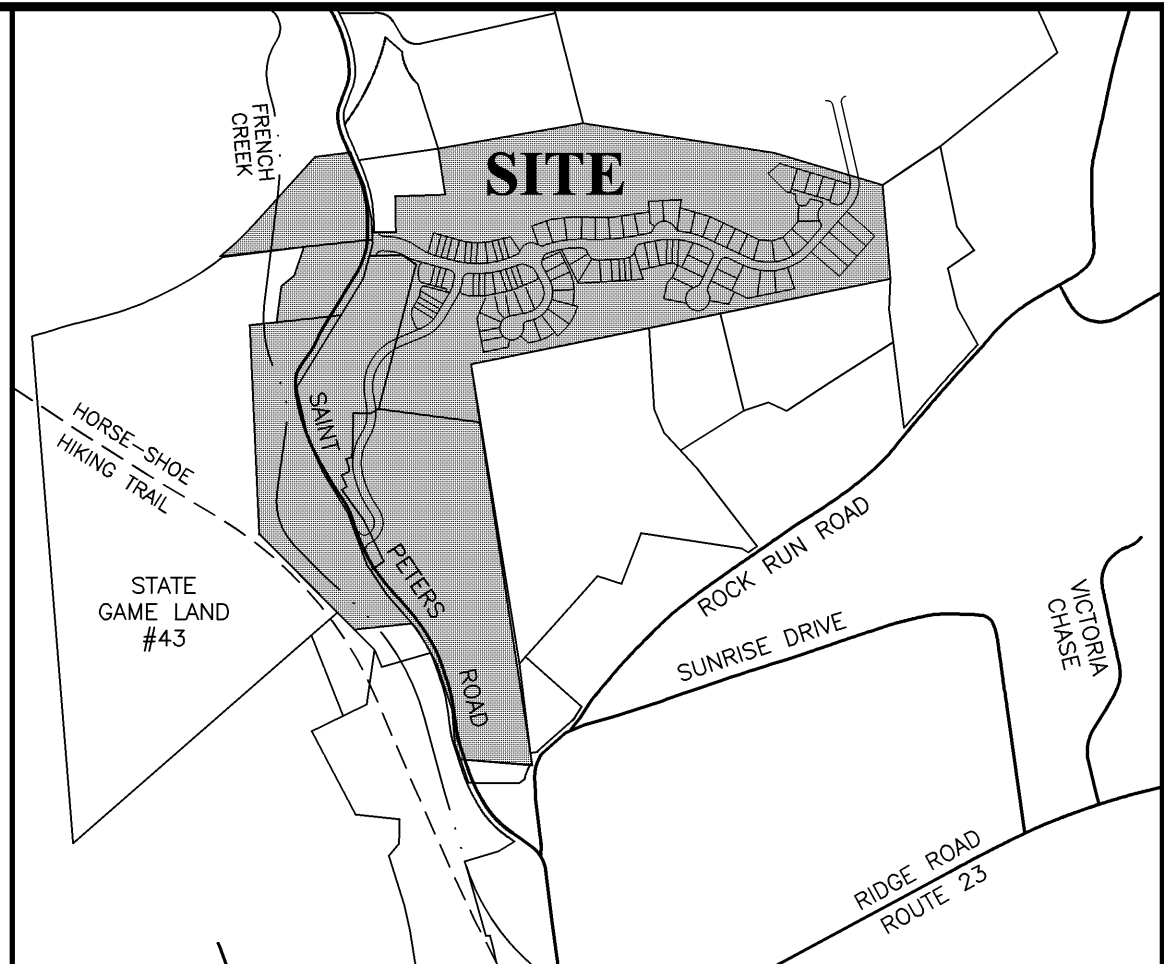
PENNSYLVANIA ACT 187 REQUIREMENTS:
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS, NOR DOES EARTH ENTERPRISES GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

Earth
Design Group

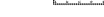
SOILS LIST

GRAPHIC SCALE

(IN FEET)
1 inch = 50'

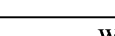


SCALE: 1" = 800'

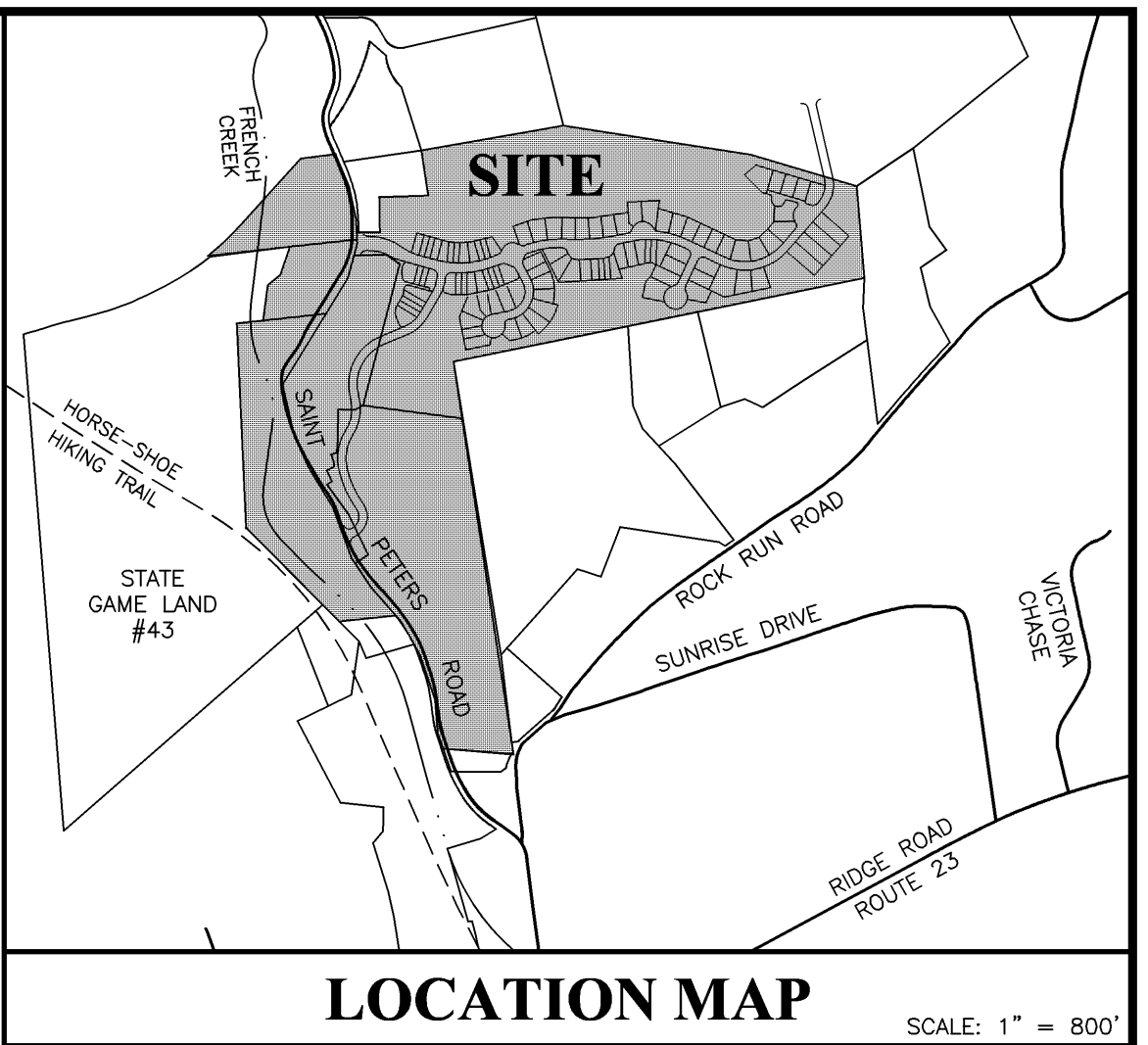
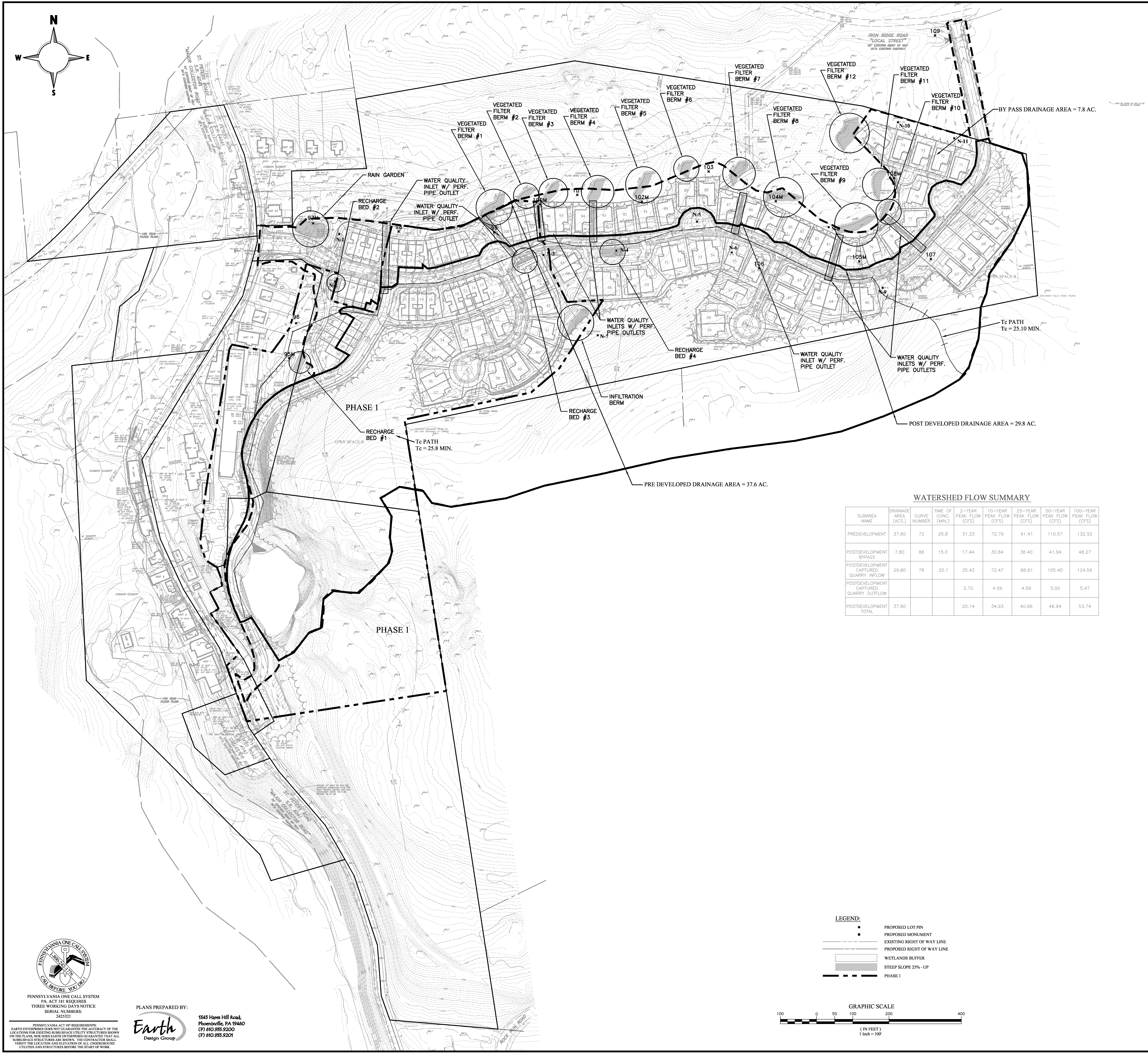
	EXISTING RIGHT OF WAY LINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING PAVING
	EXISTING TRAIL LINE
	EXISTING ELECTRIC LINE
	EXISTING WATER LINE
	EXISTING STREAM LINE
	SOILS LINE & DESCRIPTION
	STEEP SLOPE 25% - UP
	WETLANDS BUFFER
	PROPOSED RIGHT OF WAY
	PROPOSED SIDEWALK
	PROPOSED CURB
	18" SILT FENCE
	SUPER SILT PENCE
	LIMIT OF DISTURBANCE
	ROCK CONSTRUCTION ENTRANCE
	EROSION CONTROL BLANKET
	INLET SEDIMENT FILTER
	TEMPORARY TOPSOIL STOCK PILE
	PHASE 1

NOTE: EROSION CONTROL BLANKET SHALL BE
INSTALLED ON ALL SLOPES 3:1 OR GREATER.

ON LOT EROSION CONTROL	
12	06/16/2008 ADO PHASING LINE
1	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
1	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/10/2008
1	FINAL CHANGES FOR FINAL PLACEMING
10	06/10/2007 FINAL SUBMISSION, FIELD CHANGED, TOWNSHIP COMMENTS
7	07/31/2007 ADDITIONAL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
1	FINAL REVISION
5	03/05/2007 REVISION PER CCDA LETTER DATED 02/20/2007
4	04/10/2007 REVISION PER CCDA LETTER DATED 02/23/2007
1	01/20/2006 REVISION PER TOWNSHIP LETTER DATED 11/02/2005
1	01/05/2006 NPDES PHASE I SUBMISSION
2	10/05/2006 PER REV. TWP. ENGR. LTR DATED 9/4/2005 & TWP. PLANNER LTR. DATED 9/5/2005
Revised	

FINAL EROSION AND SEDIMENTATION CONTROL PLAN	PLAN OF SUBDIVISION PHASE 1 GRANITE VILLAGE AT SAINT PETERS	8E
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PRIZER ROAD PUGHCTON, PA 19465 Phone: (610) 464-8800 Fax: (610) 469-8800	Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: CAD Checked: CAD	OF 36
		

OF 36



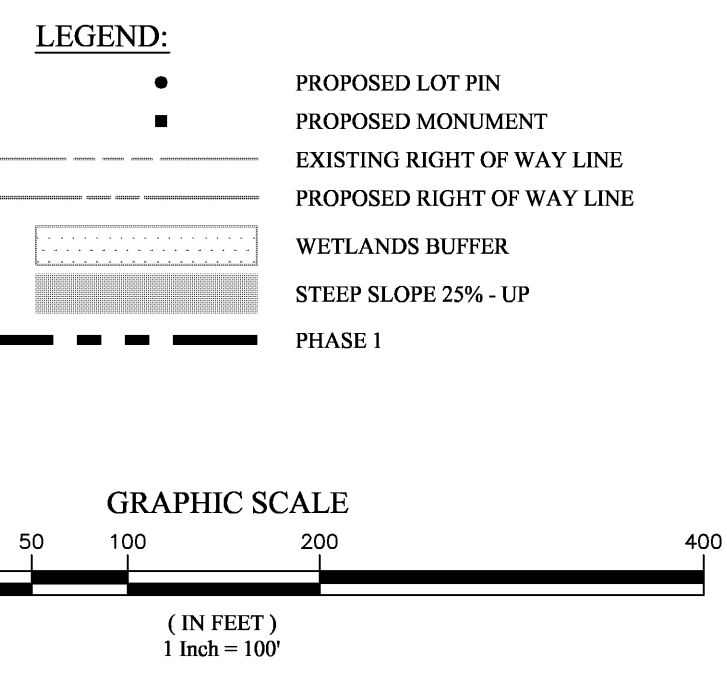
BMP OPERATION AND MAINTENANCE PROCEDURES

- THE PERMITTEE SHALL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, OPERATION AND MAINTENANCE OF ALL POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S IDENTIFIED IN THE APPROVED PCSWM PLAN.
- THE OPERATION AND MAINTENANCE REQUIREMENTS FOR THE POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S FOR THIS PROJECT INCLUDE THE FOLLOWING:
1. QUARRY - SHALL BE INSPECTED QUARTERLY AND AFTER MAJOR RAINFALL EVENTS. THE PURPOSE OF THE INSPECTION IS TO ASCERTAIN THE OPERATIONAL CONDITION AND SAFETY OF THE FACILITY. PARTICULARLY THE CONDITION OF THE OUTLET STRUCTURE, OUTLET PIPING, AND OTHER SAFETY RELATED ITEMS. OUTLET STRUCTURES AND OUTLET PIPING SHALL BE CLEARED IMMEDIATELY OF ALL DEBRIS THAT PREVENT THE PROPER OPERATION OF THE OUTLET CONTROLS.
 2. RAIN GARDEN - RAIN GARDENS SHOULD BE INSPECTED TWICE A YEAR FOR SEDIMENT BUILDUP, EROSION, AND VEGETATIVE CONDITIONS. WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING MAY BE REQUIRED. ONCE VEGETATION HAS BEEN ESTABLISHED WEEDS SHOULD BE REMOVED BY HAND AND ALL DETRITUS SHOULD BE REMOVED. TREES AND SHRUBS SHOULD BE INSPECTED TO EVALUATE HEALTH. AT THE END OF THE GROWING SEASON, PERENNIAL PLANTINGS MAY BE CUT DOWN. MULCH SHOULD BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLENISHED ANNUALLY. ONCE EVERY 2 TO 3 YEARS, THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT. RAIN GARDENS SHOULD NOT BE MOWED ON A REGULAR BASIS AND MY REQUIRE WATERING DURING PERIODS OF EXTENDED DROUGHT.
 3. RECHARGE BEDS - UNDERGROUND RECHARGE BEDS SHALL BE INSPECTED QUARTERLY AND AFTER RAINFALL EVENTS TO ENSURE THAT THEY ARE WORKING PROPERLY AND THAT DEBRIS AND/OR SEDIMENT HAS NOT ENTERED THE SYSTEM. IF THE INSPECTION REVEALS THAT THE RECHARGE BED HAS BEEN CONTAMINATED WITH SILT, THE SYSTEM WILL BE REPAIRED. ACCUMULATED SILT AND DEBRIS THAT HAS DEPOSITED IN THE BOTTOM OF ALL INLETS AND MANHOLES UPSTREAM AND WITHIN THE SYSTEM WILL BE REMOVED ON A QUARTERLY BASIS. VEHICULAR ACCESS ON RECHARGE BED AREAS SHOULD BE PROHIBITED AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS.
 4. INFILTRATION BERM - INFILTRATION BERM SHOULD BE INSPECTED QUARTERLY TO ENSURE THAT BED IS INFILTRATING AND TO ENSURE PROPER FUNCTIONALITY AND STABILITY OF STRUCTURAL COMPONENTS. DRAWDOWN TIME SHOULD BE MONITORED AFTER MAJOR STORM EVENTS. TREES AND SHRUBS MAY REQUIRE ANNUAL MULCHING. IF BED IS PLANTED IN TURF GRASS, MAINTAIN WITH REGULAR MOWING. IF BED IS PLANTED WITH MEADOW PLANTINGS, ANNUAL MOWING AND CLIPPINGS REMOVAL IS REQUIRED. PESTICIDES AND FERTILIZERS SHOULD NOT BE APPLIED AROUND INFILTRATION STRUCTURES. TRASH, DEBRIS, AND INVASIVE PLANTS SHOULD BE REMOVED REGULARLY. INSPECT FOR SIGNS OF FLOW CHANNELIZATION AND RESTORE LEVEL GRADIENT IMMEDIATELY AFTER OBSERVING DEFICIENCIES.
 5. VEGETATED FILTER BERM - VEGETATED BERM SHOULD BE INSPECTED TWICE A YEAR AND AFTER MAJOR RAINFALL EVENTS TO EVALUATE INTEGRITY AND STABILITY OF BIO-LOG INSTALLATION AND TO EVALUATE HEALTH OF WETLAND PLANTINGS. CORRECTIVE MEASURES SHALL BE TAKEN TO ENSURE FILTER BERM IS FUNCTIONING PROPERLY. TRASH, DEBRIS, AND INVASIVE PLANTS SHOULD BE REMOVED AND DRAWDOWN TIMES AFTER MAJOR STORM EVENTS SHOULD BE MONITORED. INFILTRATION AREAS ASSOCIATED WITH THE VEGETATED FILTER BERM SHOULD NOT BE MOWED OR DISTURBED BY ANY VEHICULAR TRAFFIC.
 6. WATER QUALITY INLETS - WATER QUALITY INLETS SHALL BE INSPECTED QUARTERLY AND AFTER MAJOR RAINFALL EVENTS TO EVALUATE CONDITION AND PROPER INSTALLATION OF "INCEPTOR" FILTERS, AND TO REMOVE SEDIMENT AND DEBRIS FROM BOTTOM OF INLET. "INCEPTOR" FILTERS SHOULD BE REPLACED AT LEAST TWICE A YEAR.
- INFLOW AND OUTFLOW POINTS INTO THE STORMWATER BMP SYSTEMS SHOULD BE KEPT CLEAR OF LEAVES AND OTHER DEBRIS. ANY LEAVES OR DEBRIS WILL NEGATIVELY IMPACT THE PERFORMANCE OF THESE SYSTEMS. ALL DRAWDOWN AND OVERFLOW PIPES SHOULD BE KEPT IN GOOD WORKING ORDER.
- ALL INSPECTIONS OF POSTCONSTRUCTION STORMWATER MANAGEMENT BMP'S SHALL BE PERFORMED BY THE APPOINTED REPRESENTATIVE OF THE PROPERTY OWNER.

POST CONSTRUCTION INFILTRATION TABULATION

REQUIRED INFILTRATION		PROVIDED INFILTRATION	
64,528 cu. ft.		INFILTRATION BERM #1:	6,550 cu. ft.
		RECHARGE BED #1:	6,224 cu. ft.
		RECHARGE BED #2:	4,604 cu. ft.
		RECHARGE BED #3:	2,788 cu. ft.
		RECHARGE BED #4:	3,147 cu. ft.
		RAIN GARDEN:	7,500 cu. ft.
		VEGETATED FILTER BERM #1:	6,479 cu. ft.
		VEGETATED FILTER BERM #2:	3,074 cu. ft.
		VEGETATED FILTER BERM #3:	3,538 cu. ft.
		VEGETATED FILTER BERM #4:	3,230 cu. ft.
		VEGETATED FILTER BERM #5:	2,726 cu. ft.
		VEGETATED FILTER BERM #6:	1,280 cu. ft.
		VEGETATED FILTER BERM #7:	2,110 cu. ft.
		VEGETATED FILTER BERM #8:	3,129 cu. ft.
		VEGETATED FILTER BERM #9:	1,672 cu. ft.
		VEGETATED FILTER BERM #10:	618 cu. ft.
		VEGETATED FILTER BERM #11:	1,510 cu. ft.
		VEGETATED FILTER BERM #12:	5,754 cu. ft.
		TOTAL:	65,828 cu. ft.

WATERSHED FLOW SUMMARY							
SUBAREA NAME	DRAINAGE AREA (ACS.)	CURVE NUMBER	TIME OF CONC. (MIN.)	2-YEAR PEAK FLOW (CFS)	10-YEAR PEAK FLOW (CFS)	25-YEAR PEAK FLOW (CFS)	100-YEAR PEAK FLOW (CFS)
PREDEVELOPMENT	37.60	72	25.8	31.33	72.79	91.41	110.57
POSTDEVELOPMENT BYPASS	7.80	86	15.0	17.44	30.84	36.40	41.94
POSTDEVELOPMENT CAPTURED QUARRY INFLOW	29.80	78	25.1	35.42	72.47	88.81	105.40
POSTDEVELOPMENT CAPTURED QUARRY OUTFLOW				2.70	4.09	4.56	5.00
POSTDEVELOPMENT TOTAL	37.60			20.14	34.93	40.96	46.94



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:

1545 Hares Hill Road,
Phoenixville, PA 19380
(P) 610.985.9200
(F) 610.955.9201

PENNSYLVANIA ACT 181 REQUIREMENTS:
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THIS PLAN. FOR EACH WATER INTERFERED TO GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/08
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCCD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCCD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/08/2006	NPD'S PHASE II SUBMISSION
1	10/05/2006	REV PER TWP. ENGR. LTR DATED 9/4/2006 & TWP. PLANNER LTR DATED 9/5/2006

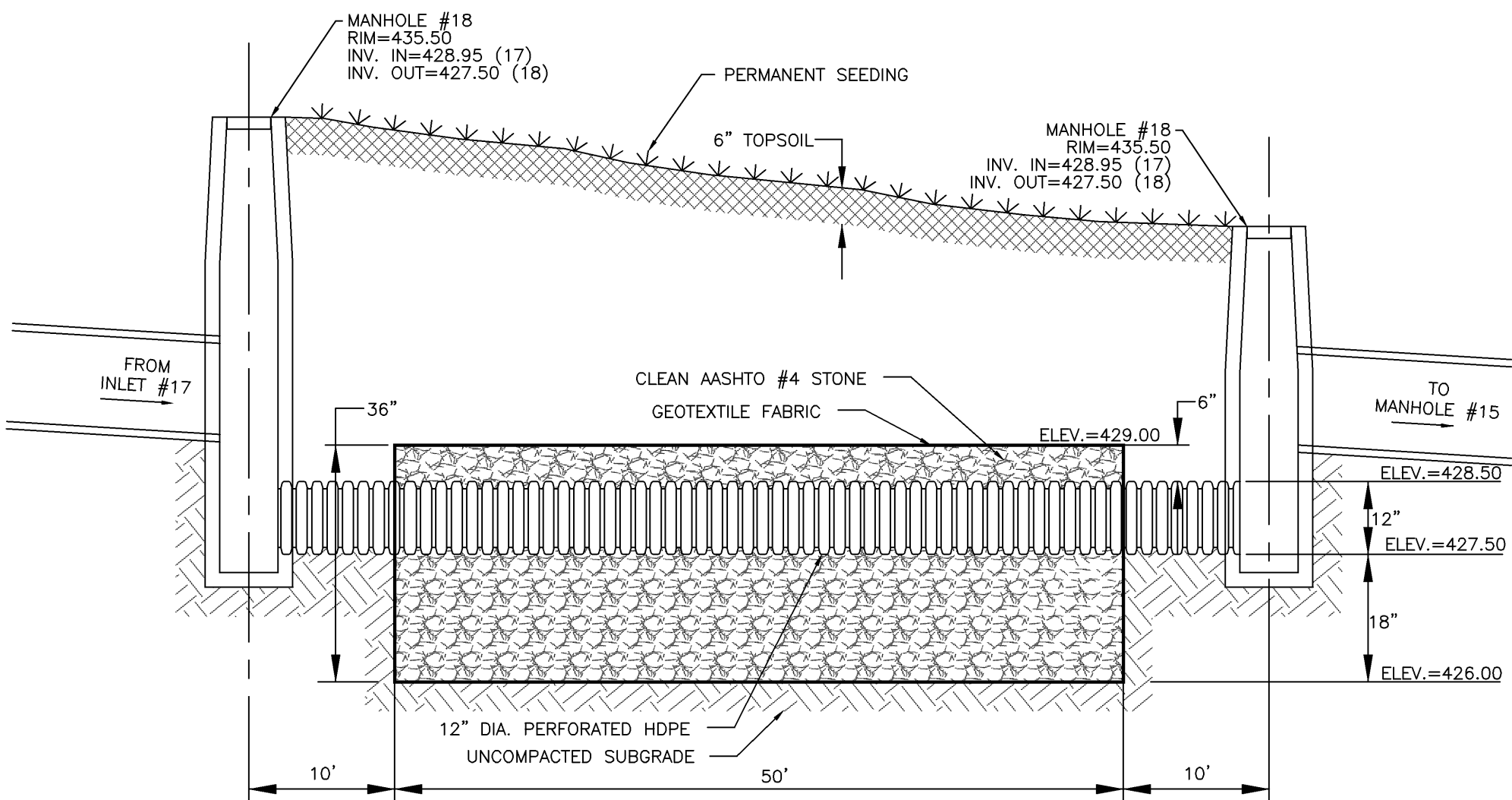
Rev.	Date	Description
FINAL POST CONSTRUCTION STORMWATER MANAGEMENT		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PUZZER ROAD MILFORD, PA 17045 Phone: (610) 469-8800 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 100' Drawn: TAH Checked: CAD		

**PLAN OF SUBDIVISION
PHASE I
GRANITE VILLAGE
AT SAINT PETERS**

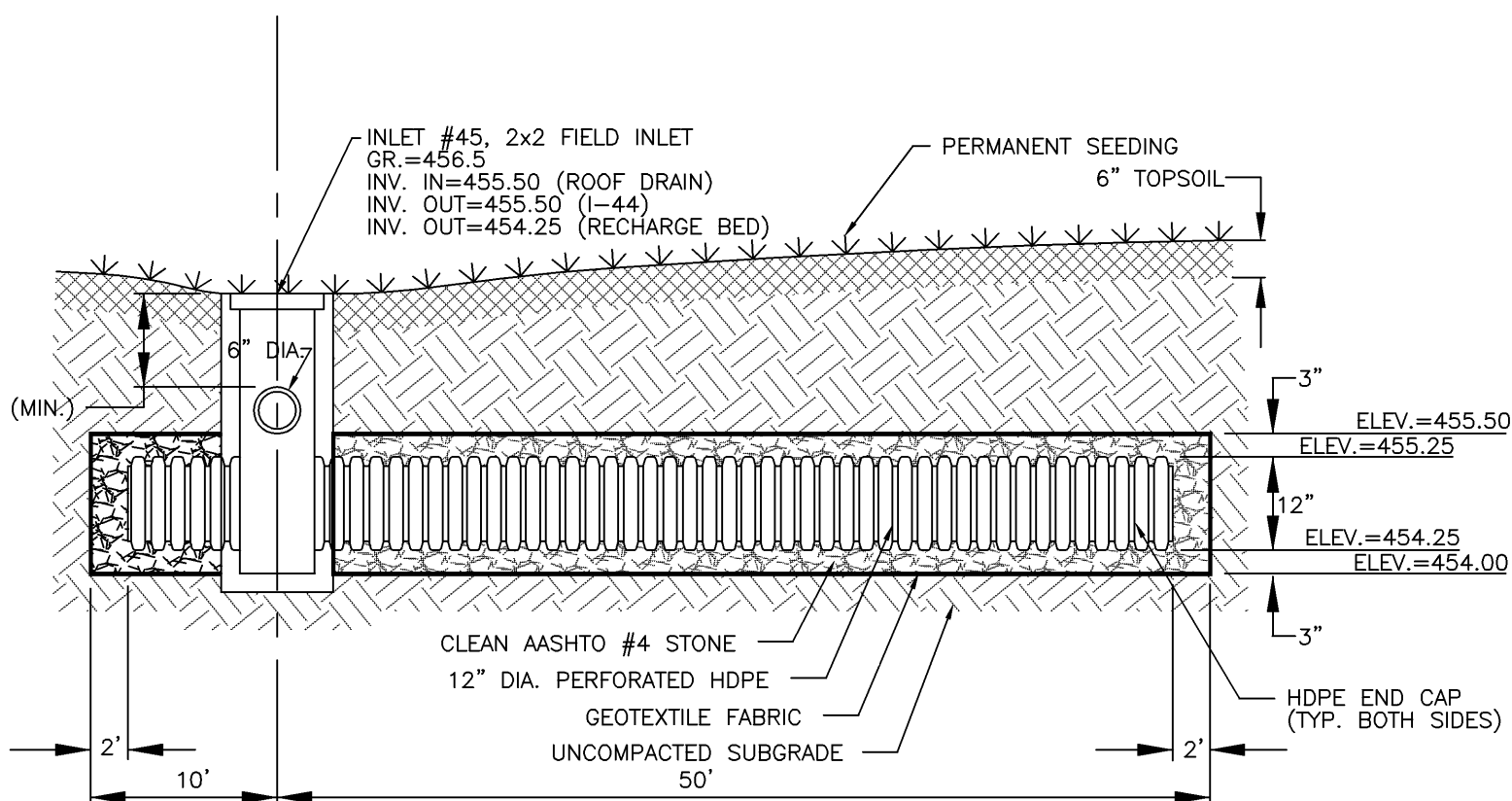
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OF 36

RECHARGE BED CONSTRUCTION SEQUENCE:

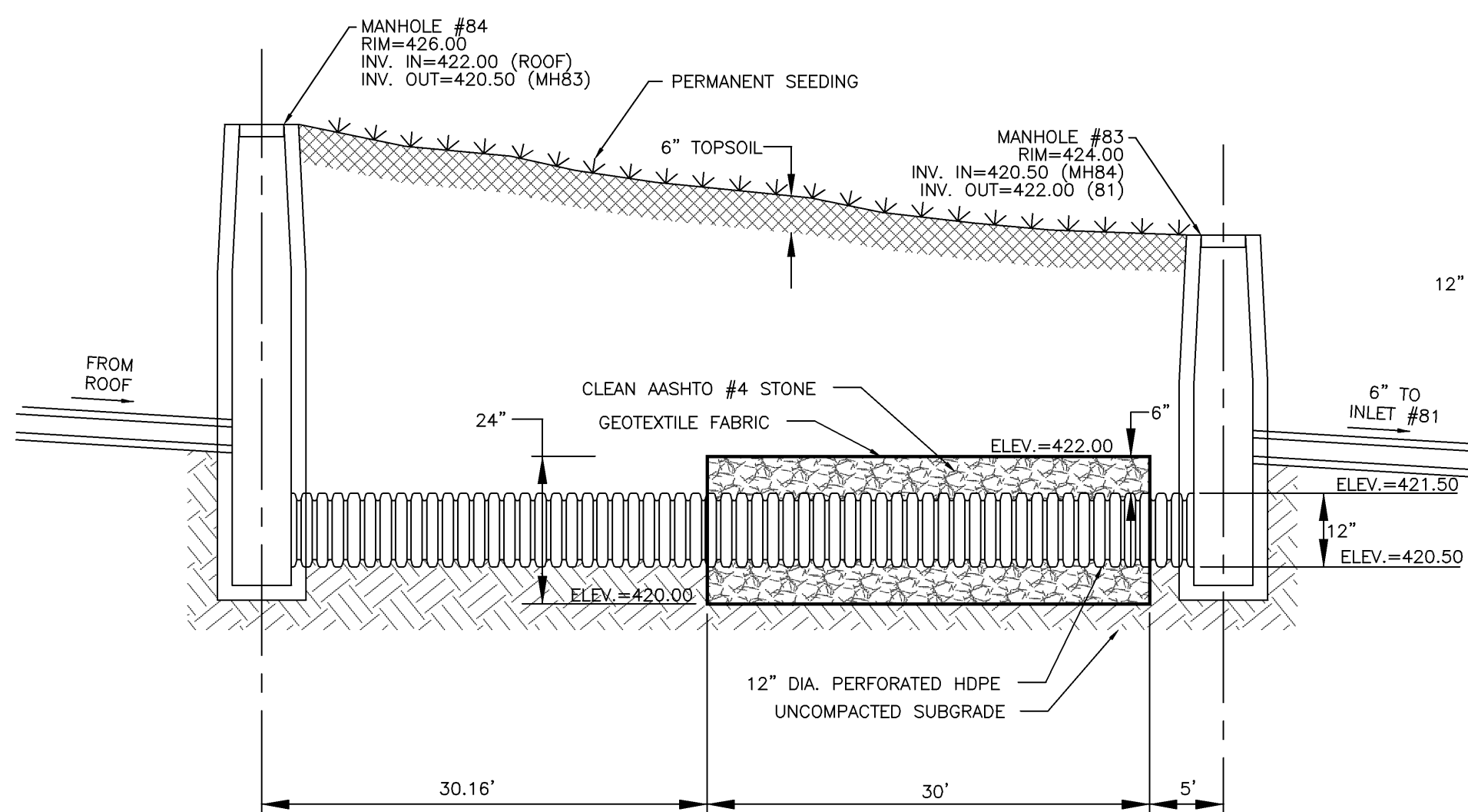
1. STAKE OUT THE LIMITS OF THE BED TO BE INSTALLED.
 2. EXCAVATE UNDERGROUND INFILTRATION BED TO THE PROPOSED BOTTOM. EXCAVATION SHALL BE DONE IN A MANNER THAT DOES NOT DISTURB THE SOIL STRUCTURE OF THE INFILTRATION ZONE. INSTALL 18" SILT FENCE ALONG THE UPSLOPE PERIMETER OF THE EXCAVATED AREA TO PREVENT RUNOFF FROM UNSTABILIZED AREAS FROM ENTERING THE INFILTRATION AREA.
 3. PLACE FILTER FABRIC IN THE EXCAVATION AND TACK IT UP TO THE SIDES. ALLOW SUFFICIENT FABRIC TO OVERLAP THE TOP OF THE BED.
- NOTE: INFILTRATION BED FILTER FABRIC AND STONE SHALL BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BEDS, APPROPRIATE MEASURES (I.E., CLEANING THE SOIL/SEDIMENT FROM THE FABRIC, STONE, BED, ETC. OR A REPLACEMENT OF THE FABRIC AND STONE) SHALL BE TAKEN. PIECES OF FILTER FABRIC SHALL BE INSTALLED WITH A 12" OVERLAP ON ALL SEAMS.
4. PLACE AASHTO #4 STONE IN THE BOTTOM OF THE BED AND EVENLY DISTRIBUTE ON THE BOTTOM. CARE SHALL BE TAKEN TO ENSURE THAT THE FILTER FABRIC IN THE BED IS NOT TORN DURING INSTALLATION. ALL STONE SHALL BE UNIFORMLY GRADED, CLEAN WASHED AGGREGATE. THE STONE SHALL BE CHECKED AND APPROVED BY THE DESIGN OR SITE ENGINEER BEFORE INSTALLATION INTO SEEPAGE BEDS TO ENSURE THAT IT IS CLEAN WASHED STONE.
 5. INSTALL THE DISTRIBUTION PIPE AS FOLLOWS: BACKFILL STONE IN THE BEDS TO THE LEVEL OF THE INFLOW PIPE(S). PROVIDE OPENING IN THE FILTER FABRIC FOR THE INFLOW PIPE AND INSTALL DISTRIBUTION PIPE.
 6. COMPLETE PLACEMENT OF THE STONE IN THE INFILTRATION BED. OVERLAP FILTER FABRIC ON TOP OF THE INFILTRATION BED. BACKFILL OVER THE INFILTRATION AREA WITH SOIL TO FINISHED GRADE. STABILIZE AREA OVER UNDERGROUND BED WITH PERMANENT MEASURES AS STATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
 7. UPON COMPLETION OF HOUSE RAIN GUTTERS, CONNECT ALL DOWNSPOUTS INTO THE DISTRIBUTION PIPE.
 8. THE INSTALLATION OF THE INFILTRATION BED SHALL BE DONE DURING NON-RAINY PERIODS TO PREVENT SEDIMENT DEPOSITION AND CLOGGING OF THE SOIL STRUCTURE. IF RAIN BEGINS AFTER THE EXCAVATION THE INFILTRATION BED HAS BEEN COMPLETED, FILTER FABRIC SHALL BE PLACED ON THE BED AREA. THE FILTER FABRIC SHALL BE REMOVED AND REPLACED IF SEDIMENT ACCUMULATES IN THE BED AREA.



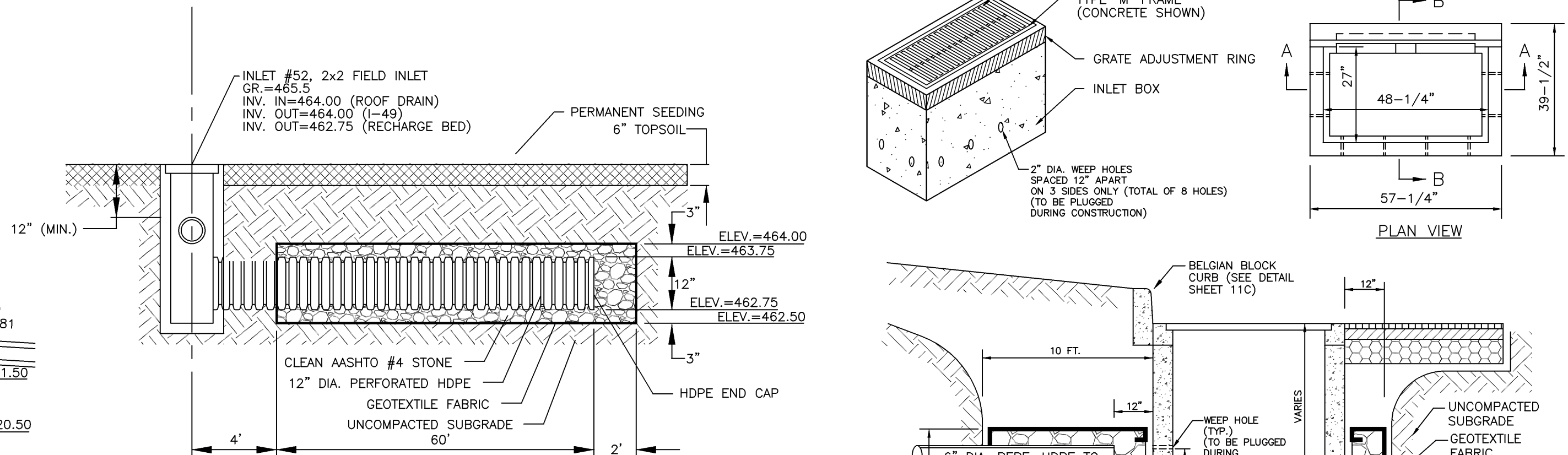
RECHARGE BED #1 DETAIL
NOT TO SCALE



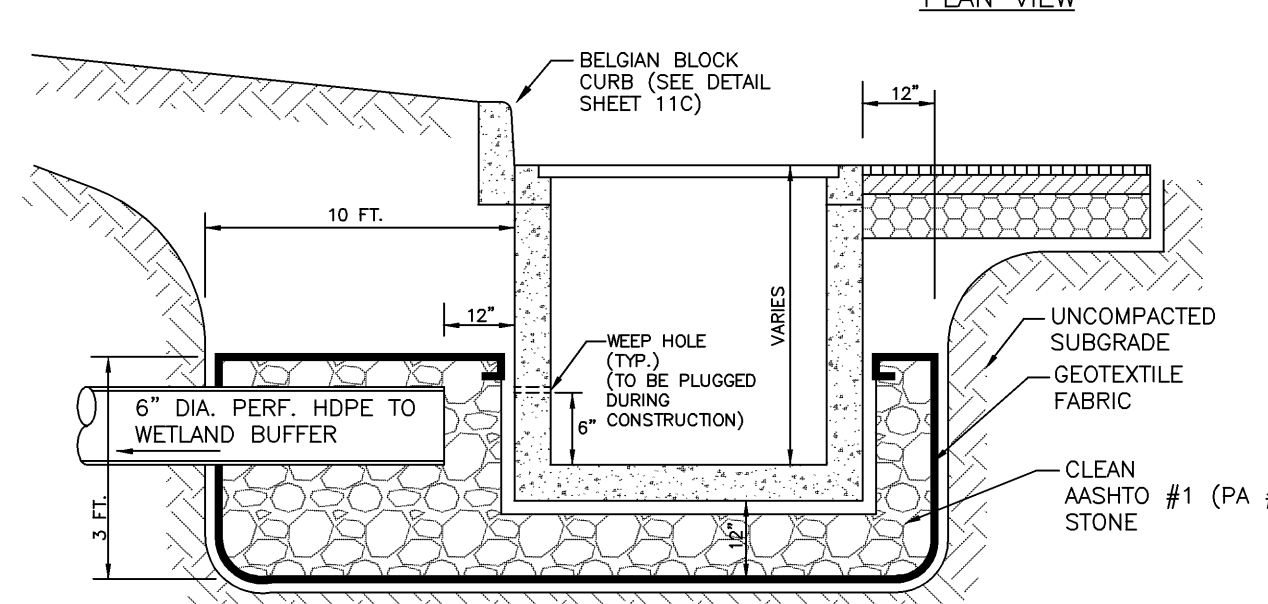
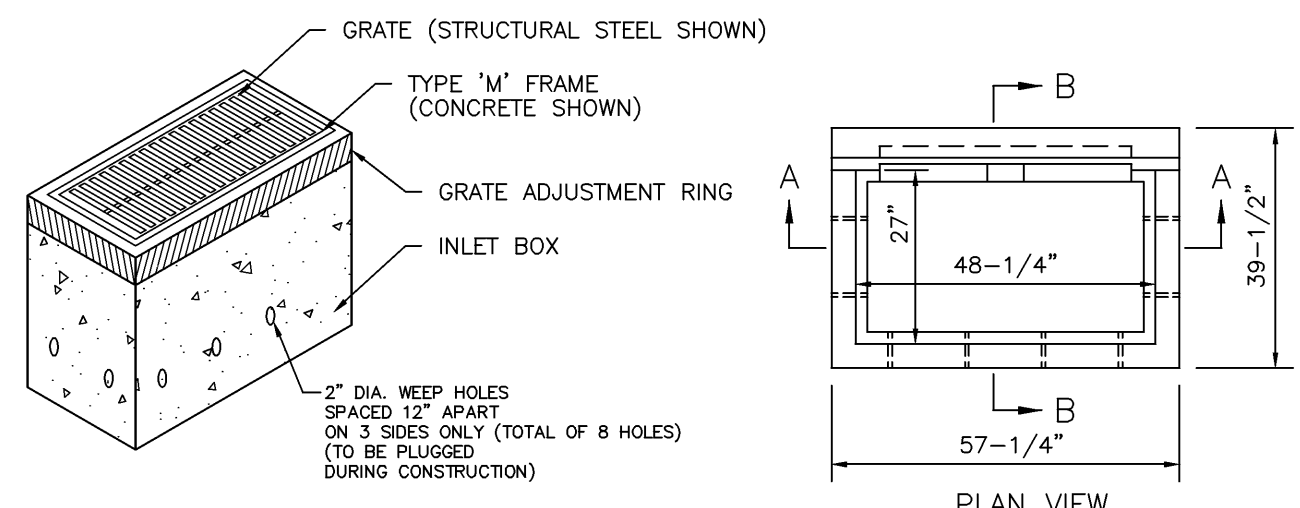
RECHARGE BED #3 DETAIL
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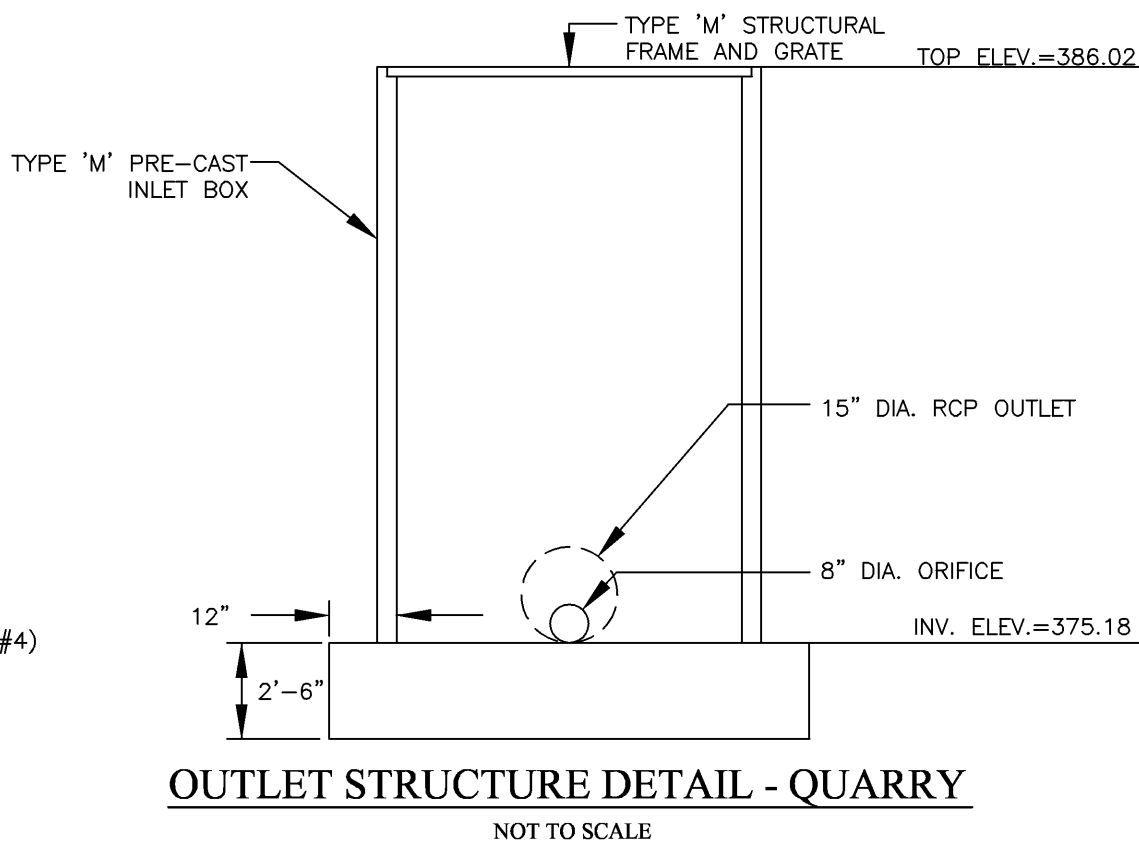
RECHARGE BED #2 DETAIL
NOT TO SCALE



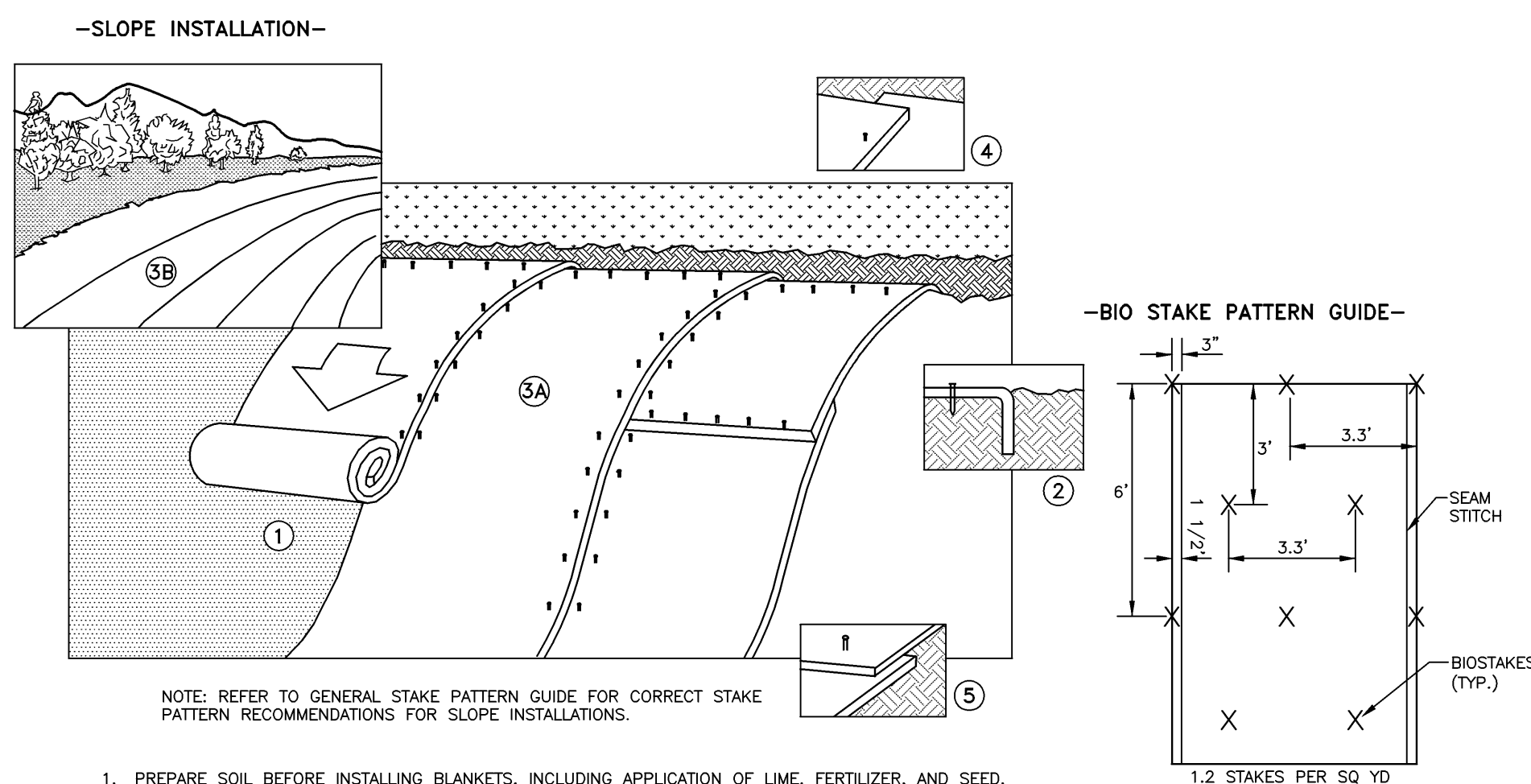
RECHARGE BED #4 DETAIL
NOT TO SCALE



WATER QUALITY INLET
NOT TO SCALE

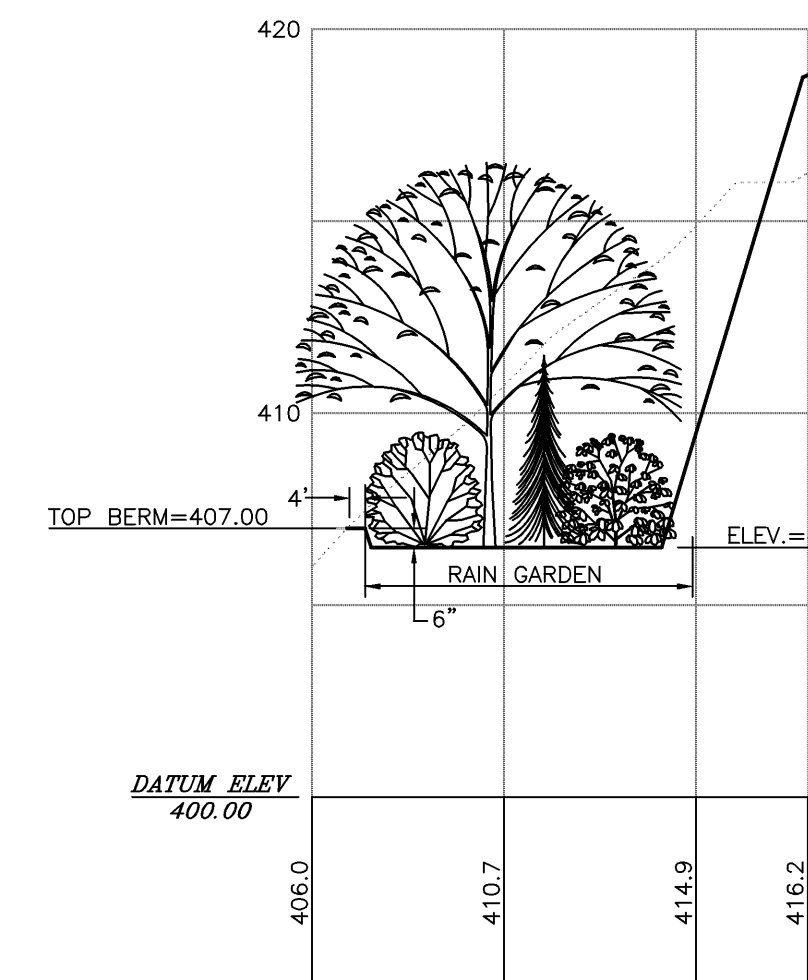
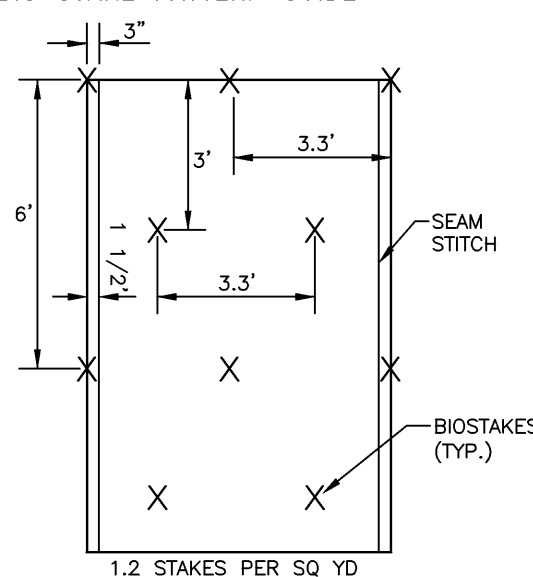


OUTLET STRUCTURE DETAIL - QUARRY
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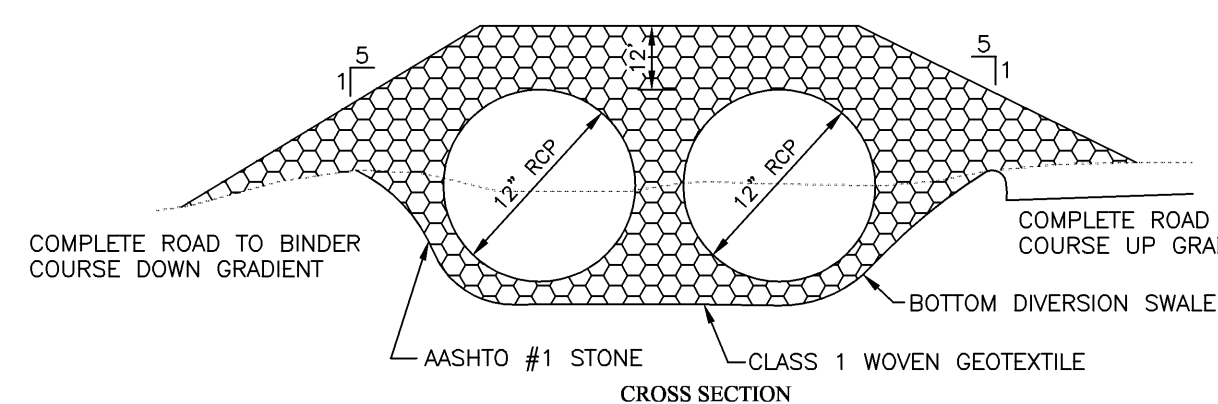


- NOTE: REFER TO GENERAL STAKE PATTERN GUIDE FOR CORRECT STAKE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAKED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

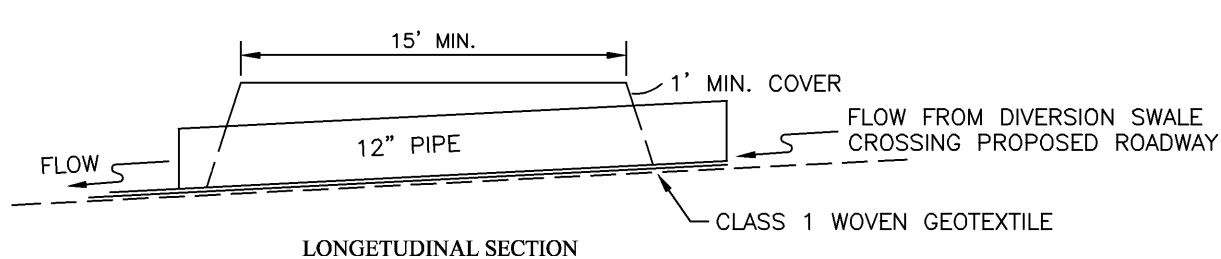
-BIO STAKE PATTERN GUIDE-



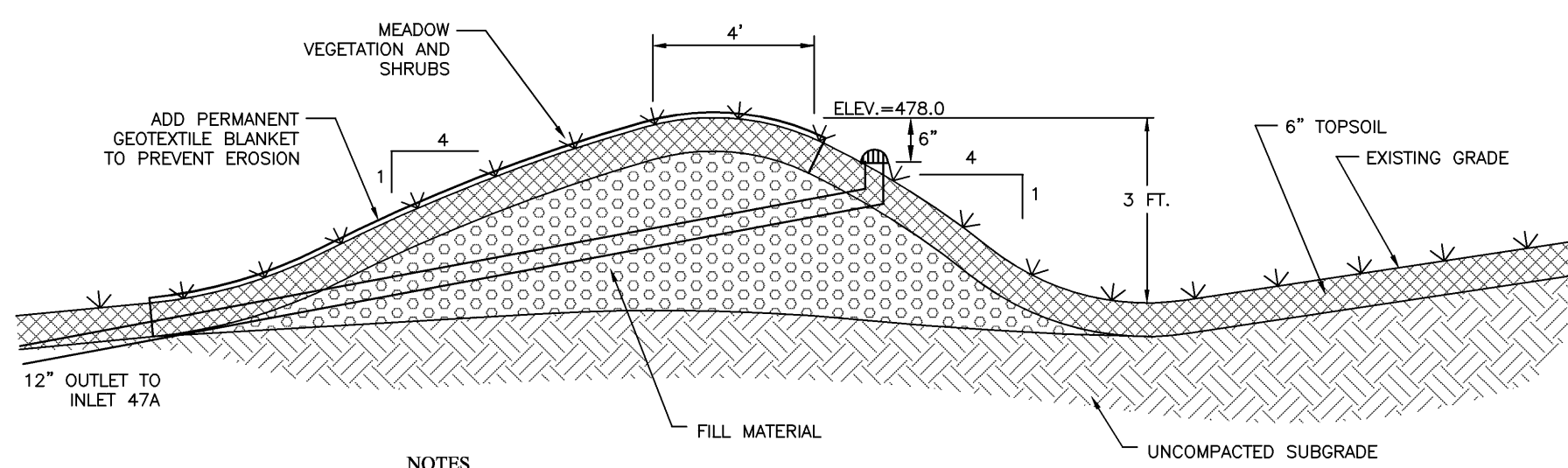
CROSS-SECTION THRU RAIN GARDEN
SCALE: HOR. 1"=5' VER. 1"=5'



TEMPORARY EQUIPMENT CROSSING DETAIL
FOR DIVERSION SWALE IN ROADWAY
NOT TO SCALE

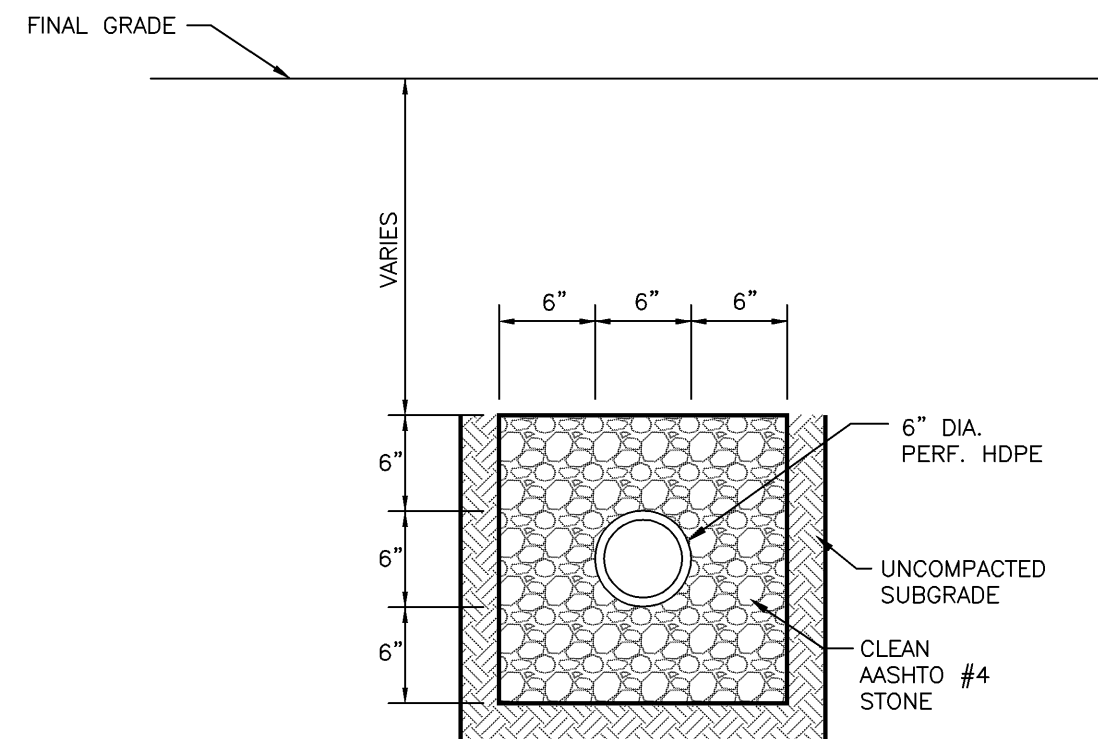


TEMPORARY EQUIPMENT CROSSING DETAIL
FOR DIVERSION SWALE IN ROADWAY
NOT TO SCALE

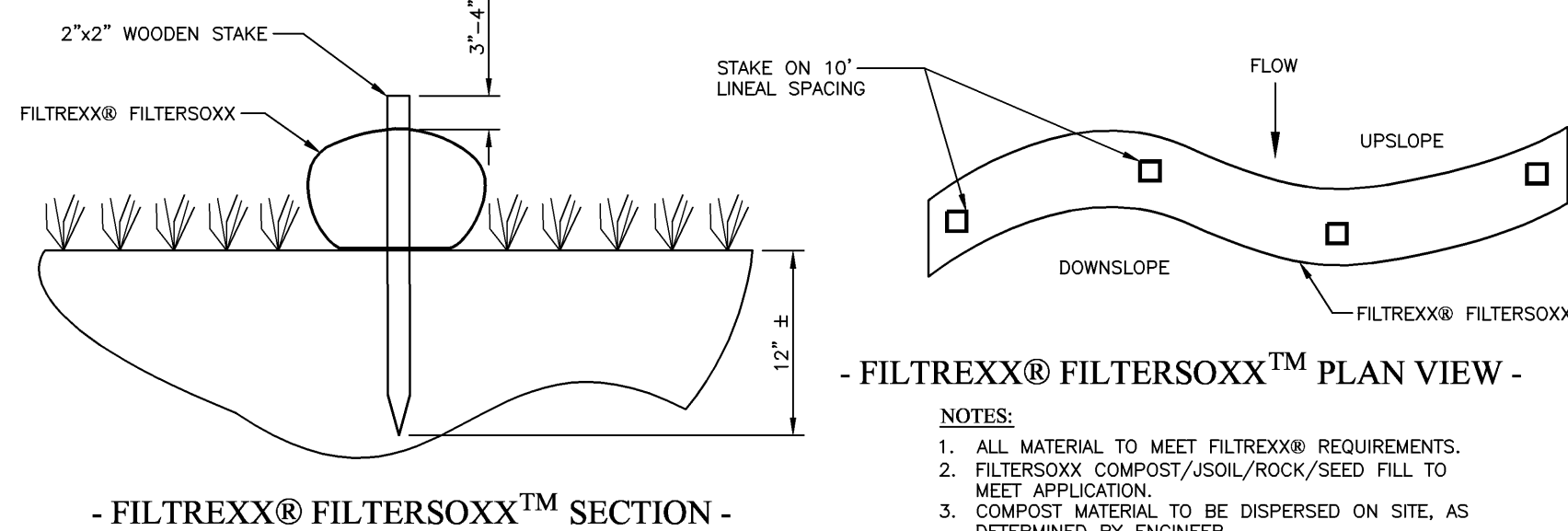


- NOTES:
1. MAINTAIN A MINIMUM 2-FOOT SEPARATION TO BEDROCK AND SEASONAL HIGH WATER TABLE.
 2. AVOID EARTH DISTURBANCE ON UPSTREAM SIDE OF INFILTRATION BERM.
 3. BERMS SHOULD BE VEGETATED WITH TURF GRASS AS A MINIMUM. HOWEVER, MORE SUBSTANTIAL PLANTINGS SUCH AS MEADOW VEGETATION, SHRUBS, AND TREES ARE RECOMMENDED.

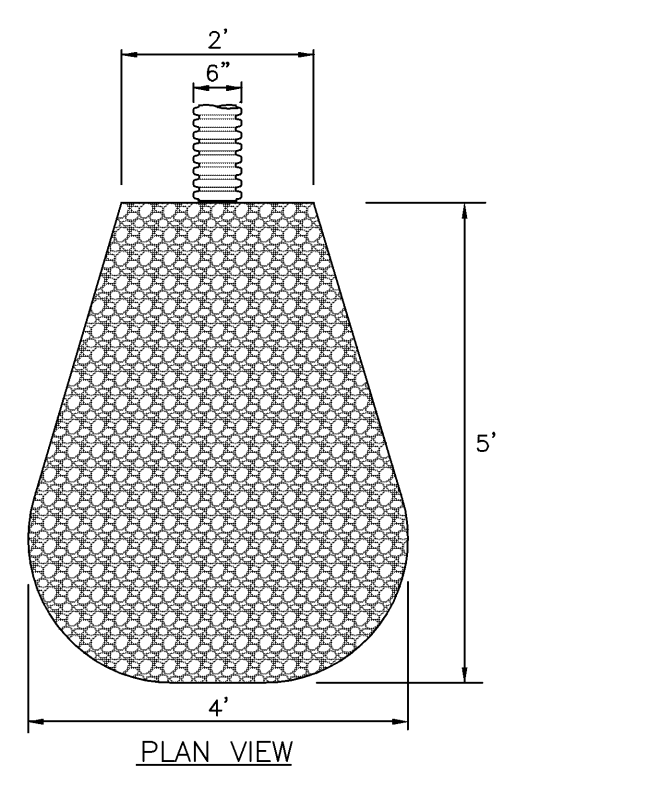
INFILTRATION BERM DETAIL
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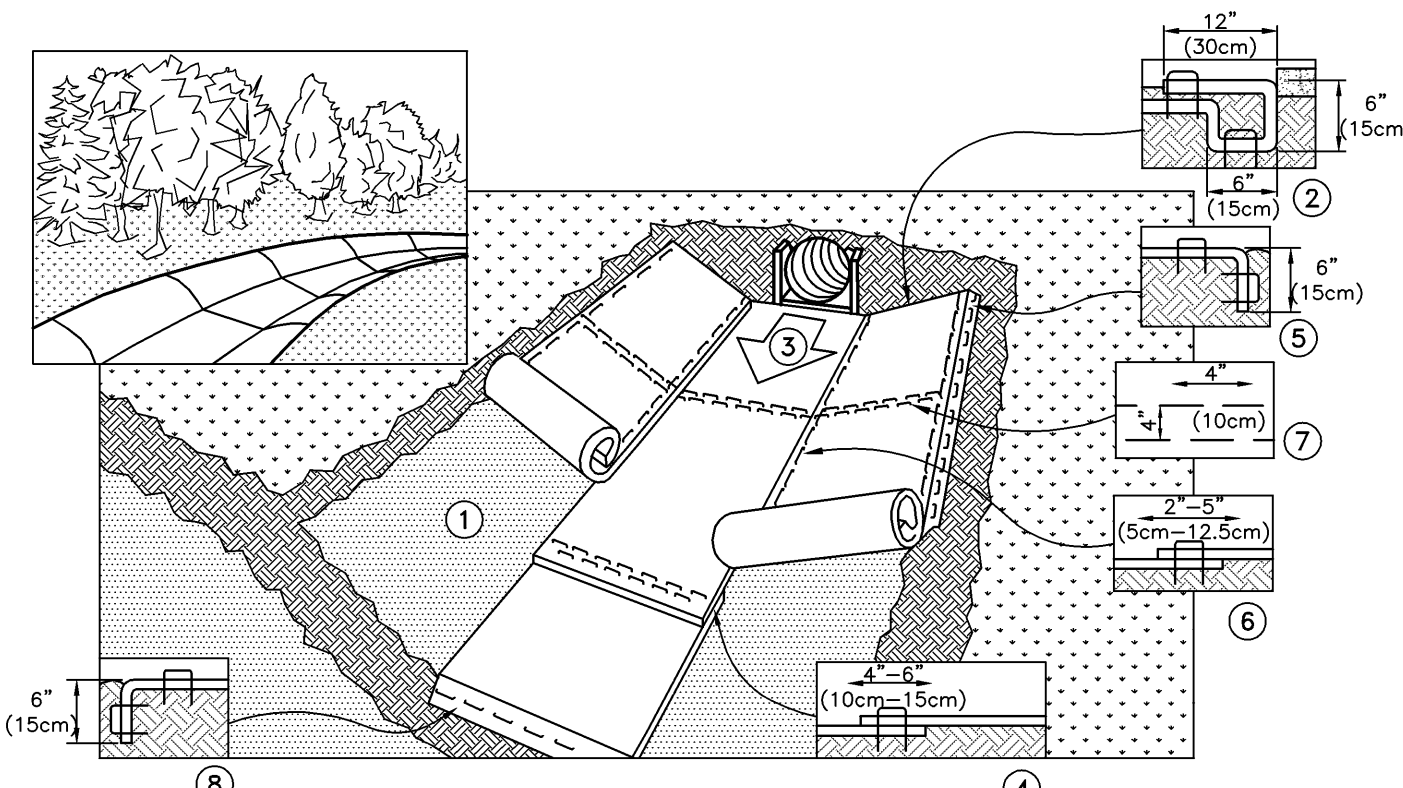
PIPE TRENCH DETAIL FOR WATER
QUALITY INLET OUTFALLS
NOT TO SCALE



FILTER SOCK DETAIL
NOT TO SCALE

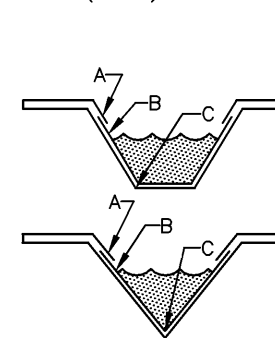


ENERGY DISSIPATOR DETAIL FOR
WATER QUALITY INLET PIPE OUTFALL
NOT TO SCALE



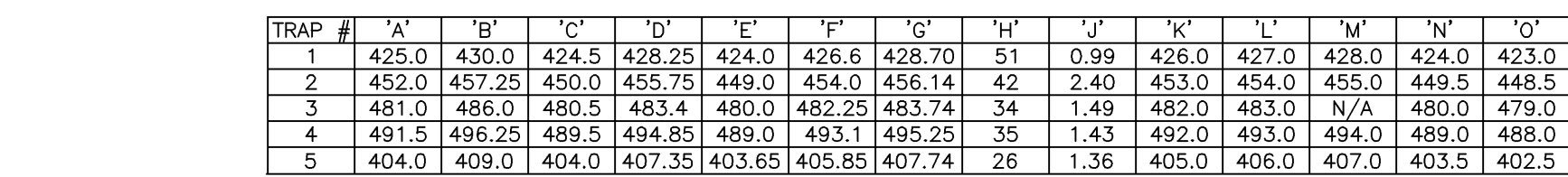
NORTH AMERICAN GREEN MATTING DETAIL
NOT TO SCALE

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE STAPLING AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAKE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-3" (5cm-7.5cm) (DEPENDENT ON BLANKET TYPE) AND STAPLED TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FEET (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

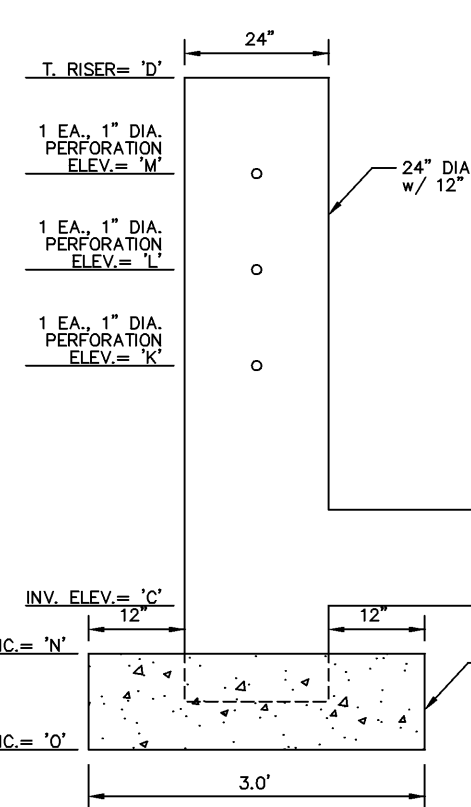


DETAIL PROVIDED BY:
NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725
USA 1-800-772-2040 CANADA 1-800-448-2040
www.nogreen.com

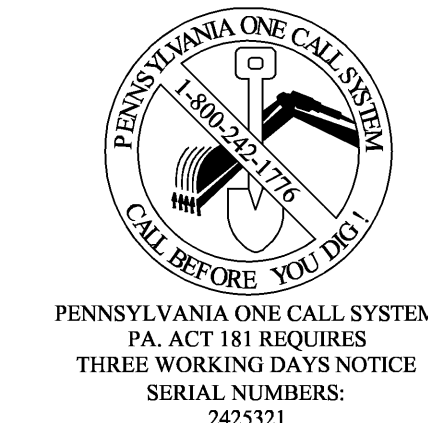
NORTH AMERICAN GREEN MATTING DETAIL
NOT TO SCALE



SEDIMENT TRAP DETAIL
NOT TO SCALE



TEMPORARY RISER DETAIL
SEDIMENT TRAP
NOT TO SCALE



PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:



1545 Home Hill Road,
Phoenixville, PA 19380
(P) 610.955.9200
(P) 610.955.9201

PENNSYLVANIA ACT 181 REQUIREMENTS:
EARTH ENTERPRISES AND ANY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THIS PLAN FOR EXISTING WATER INFILTRATION UTILITY STRUCTURES SHALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/2008
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6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
4	01/30/2007	REVISION PER CCOD LETTER DATED 01/23/2007
3	11/30/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
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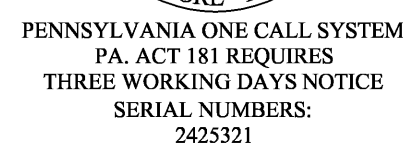
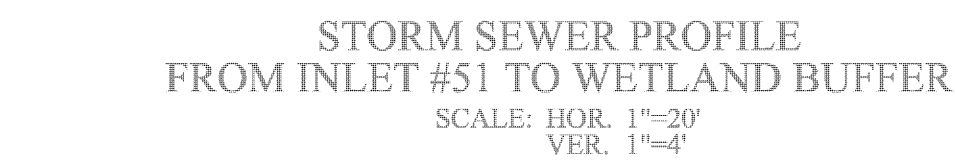
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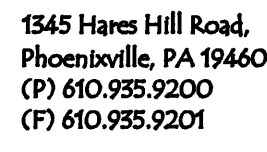
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11	03/20/2008	REVISIONS PER TOWNSHIP



PLANS PREPARED BY:



Earth
Design Group





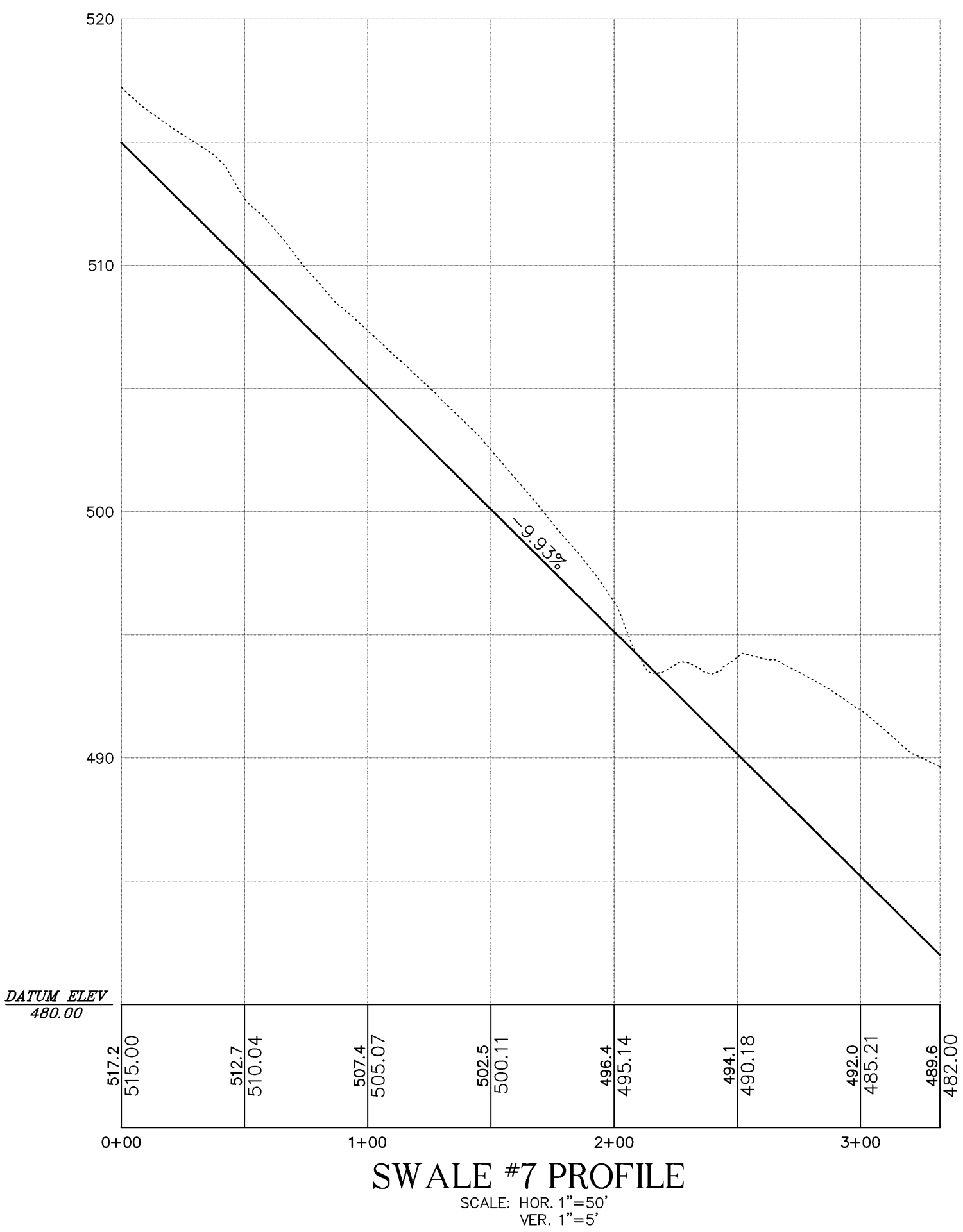
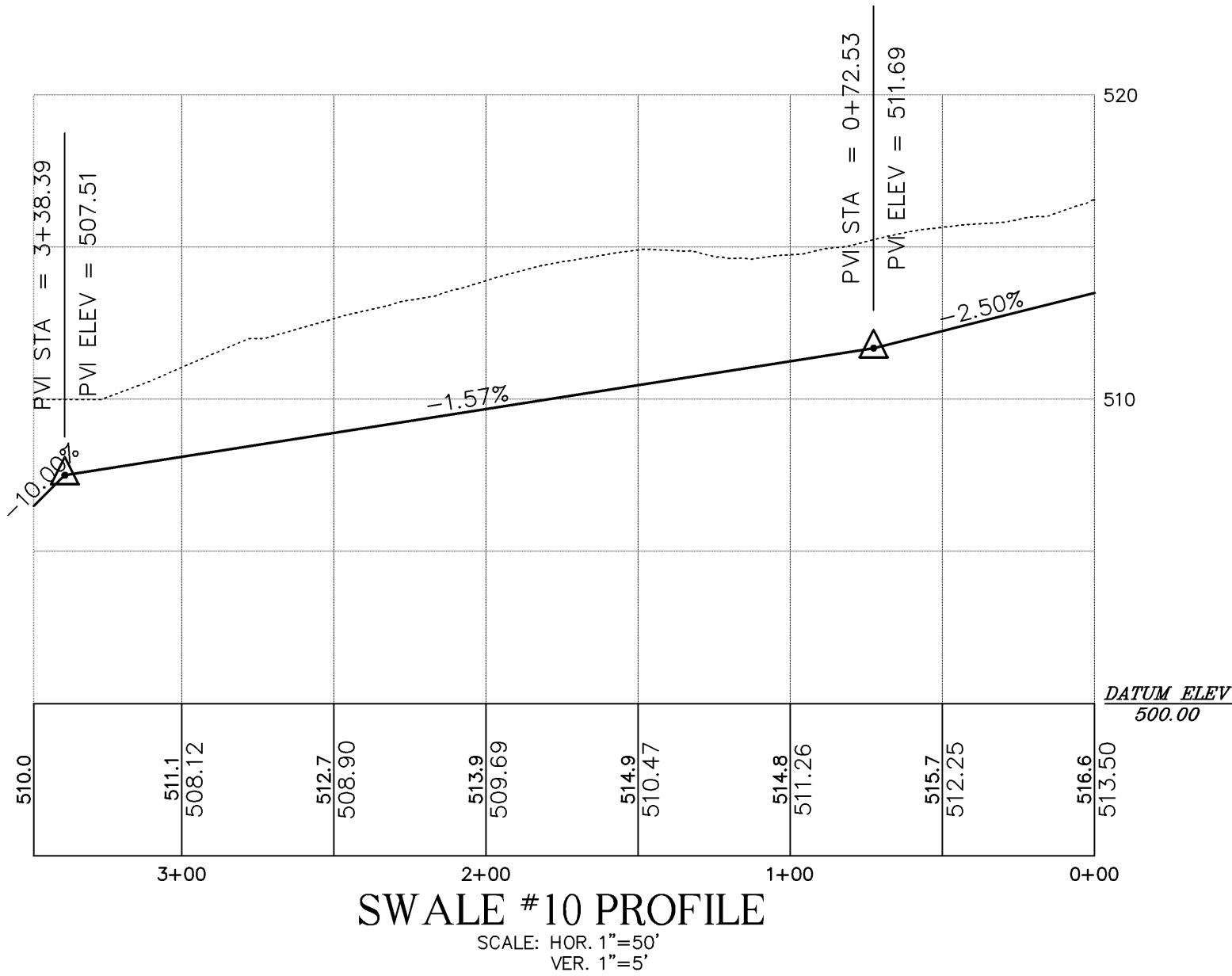
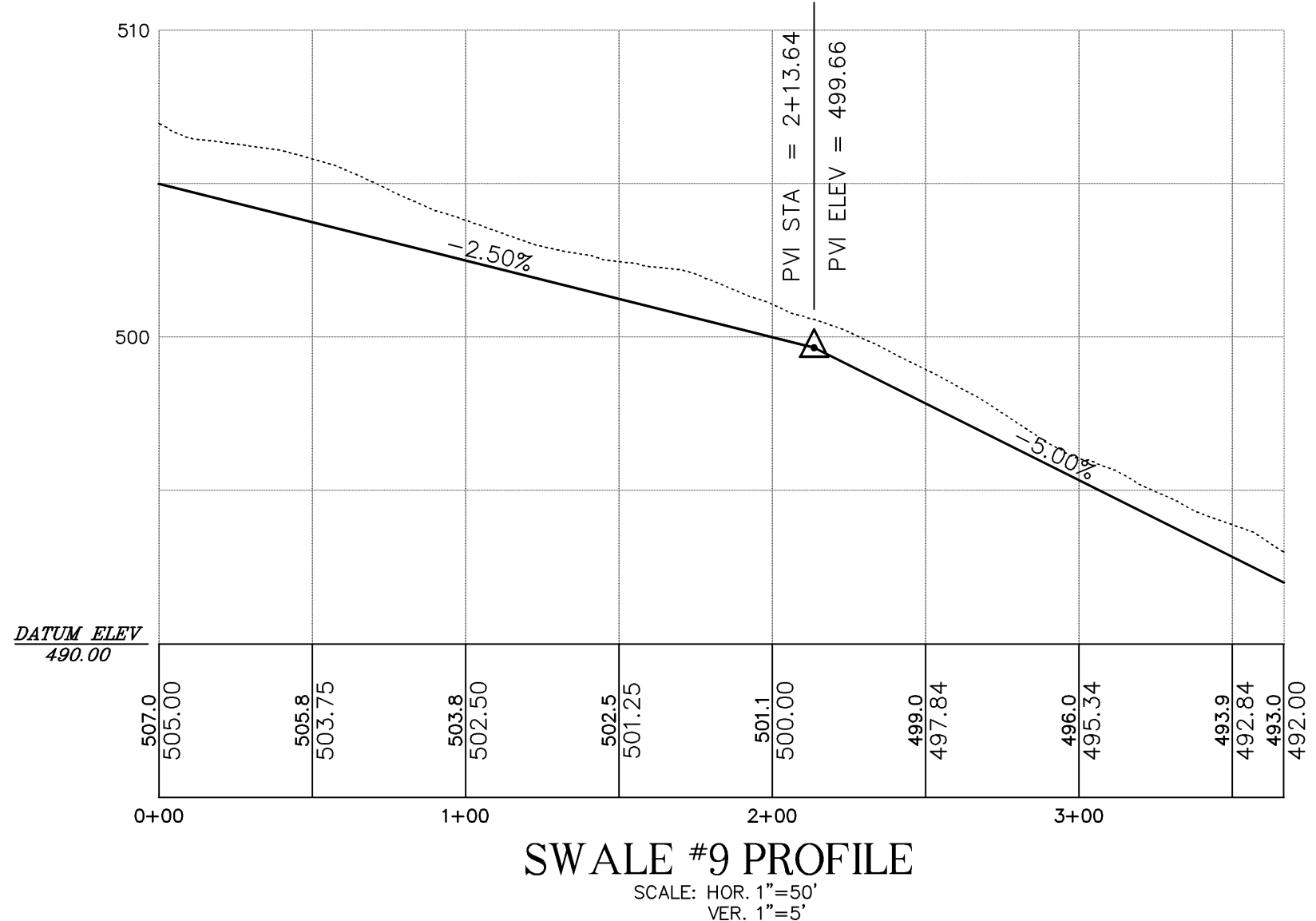
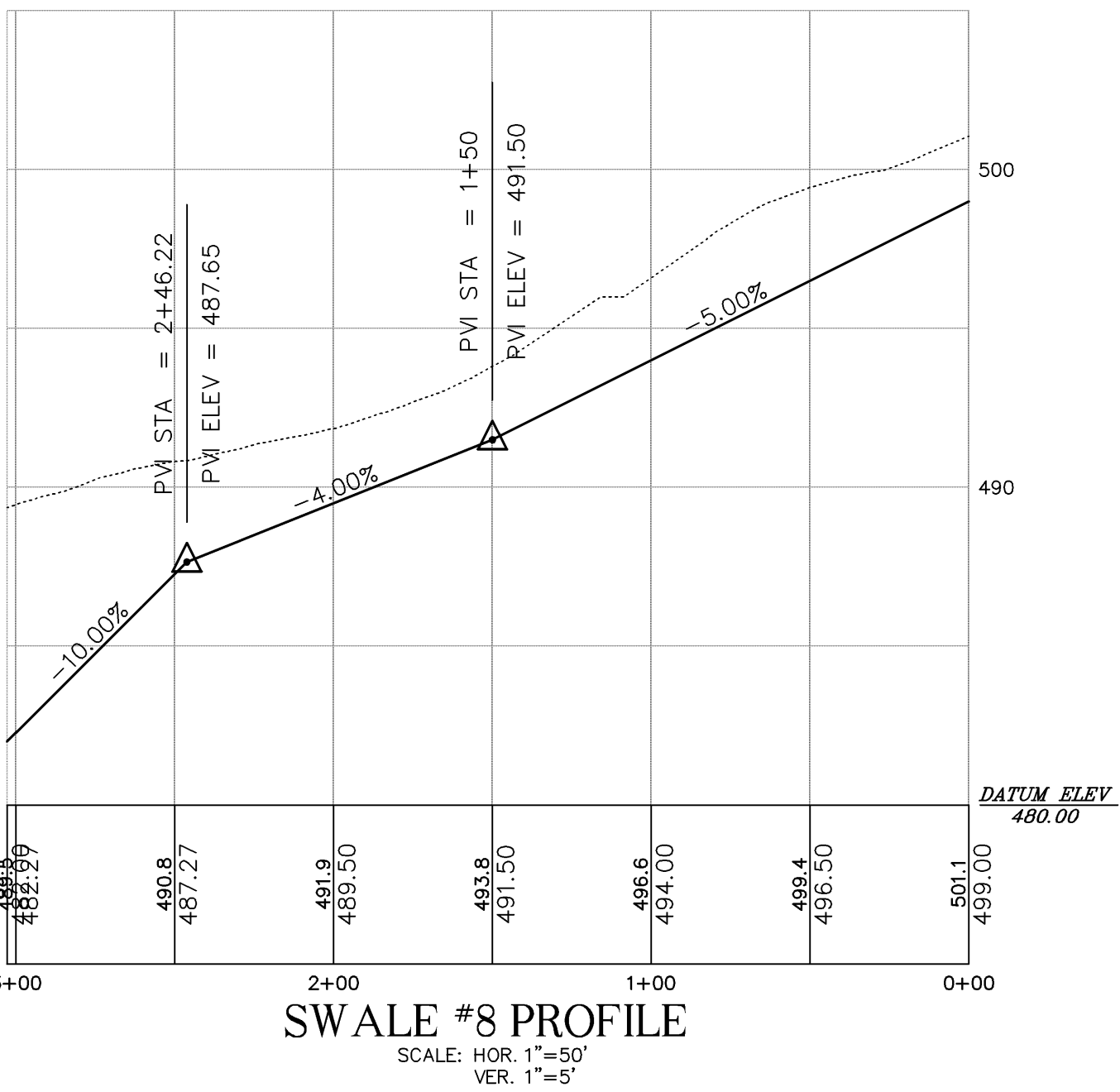
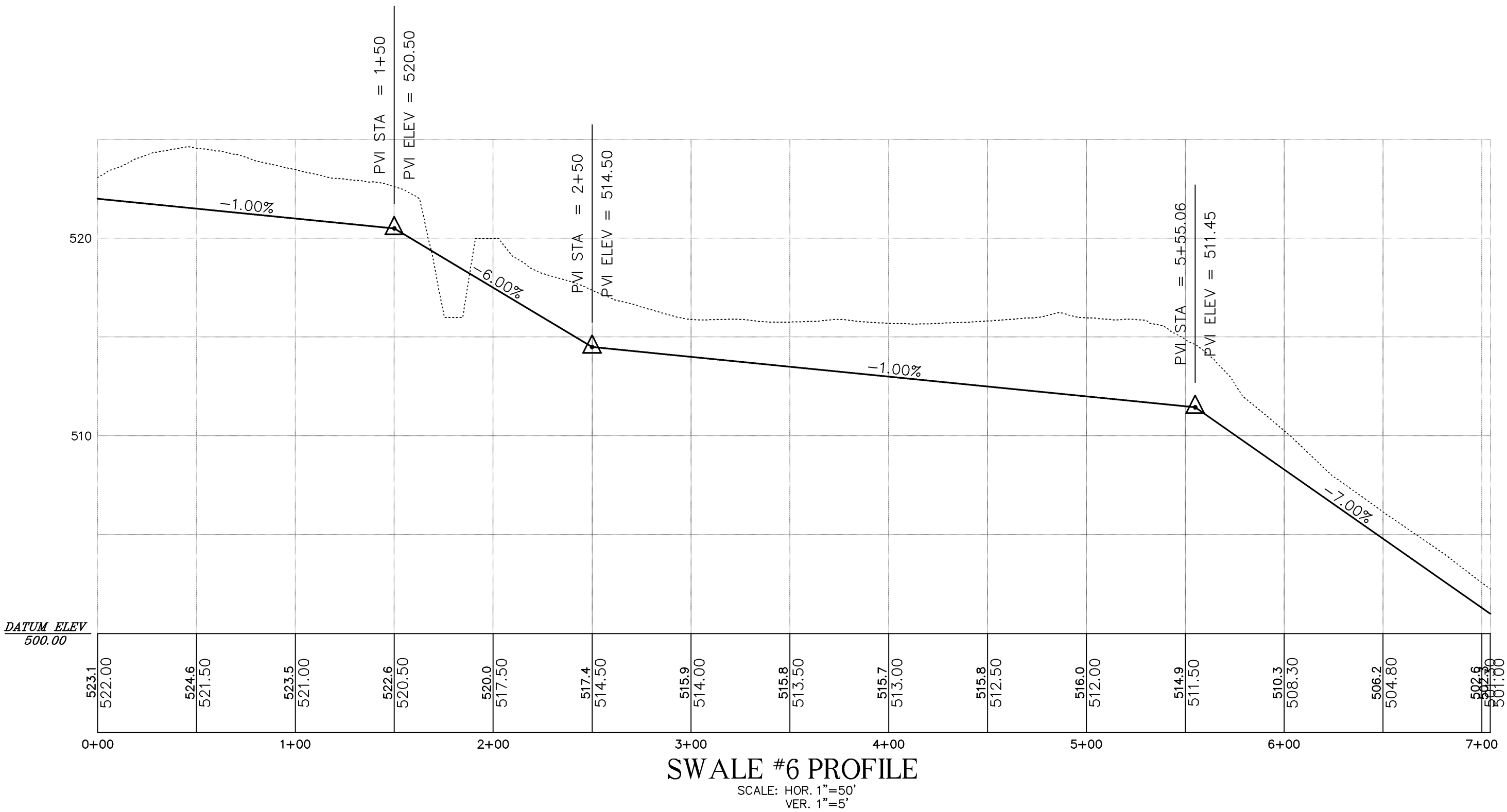
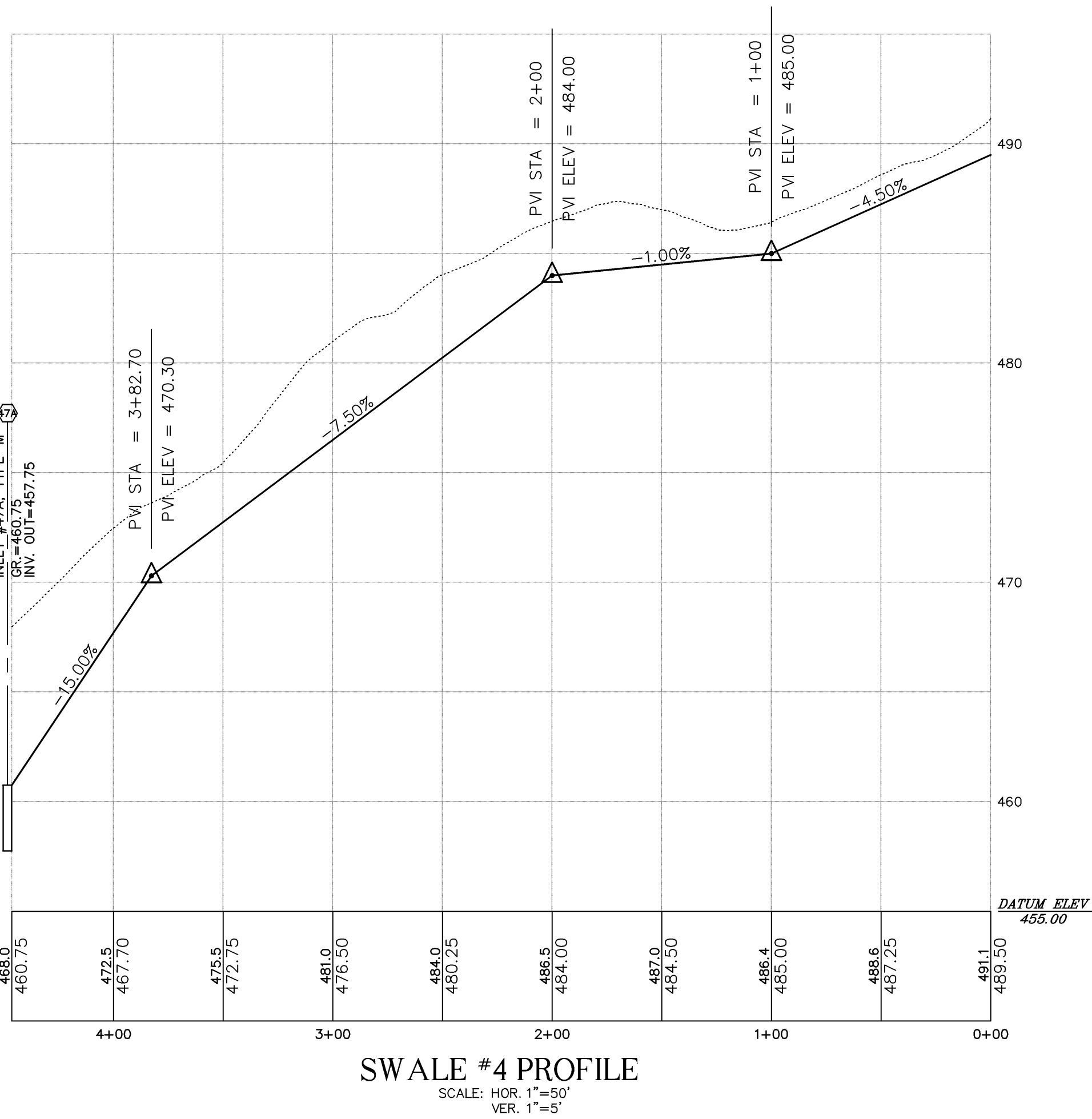
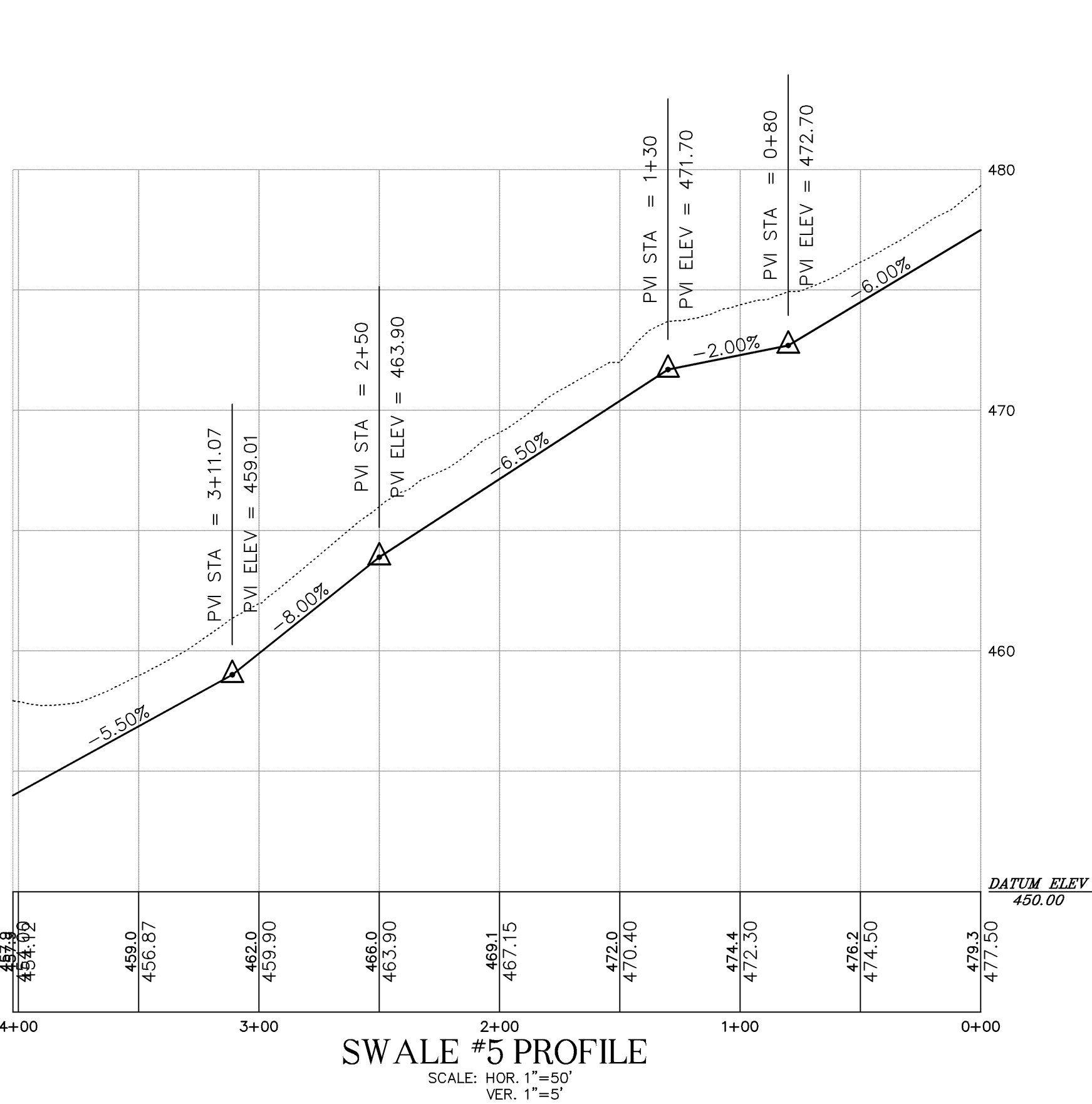
PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
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PLANS PREPARED BY:

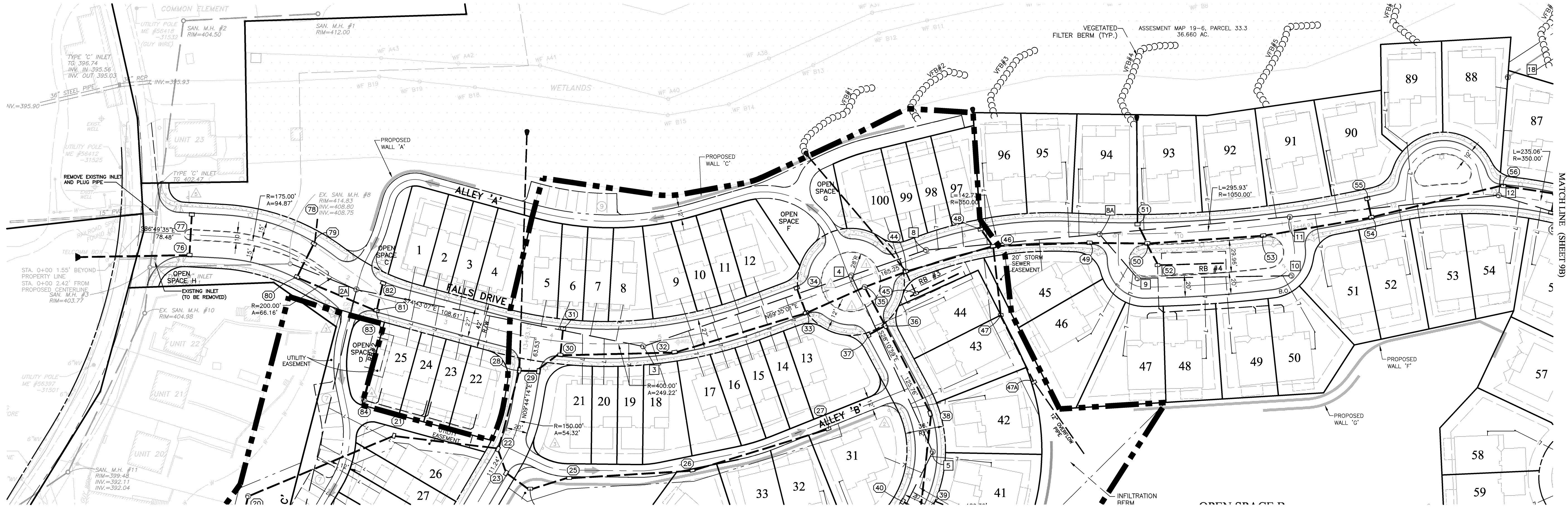
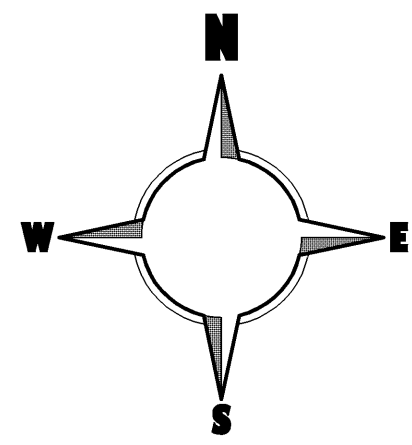


1545 Hares Hill Road,
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(P) 610.955.9200
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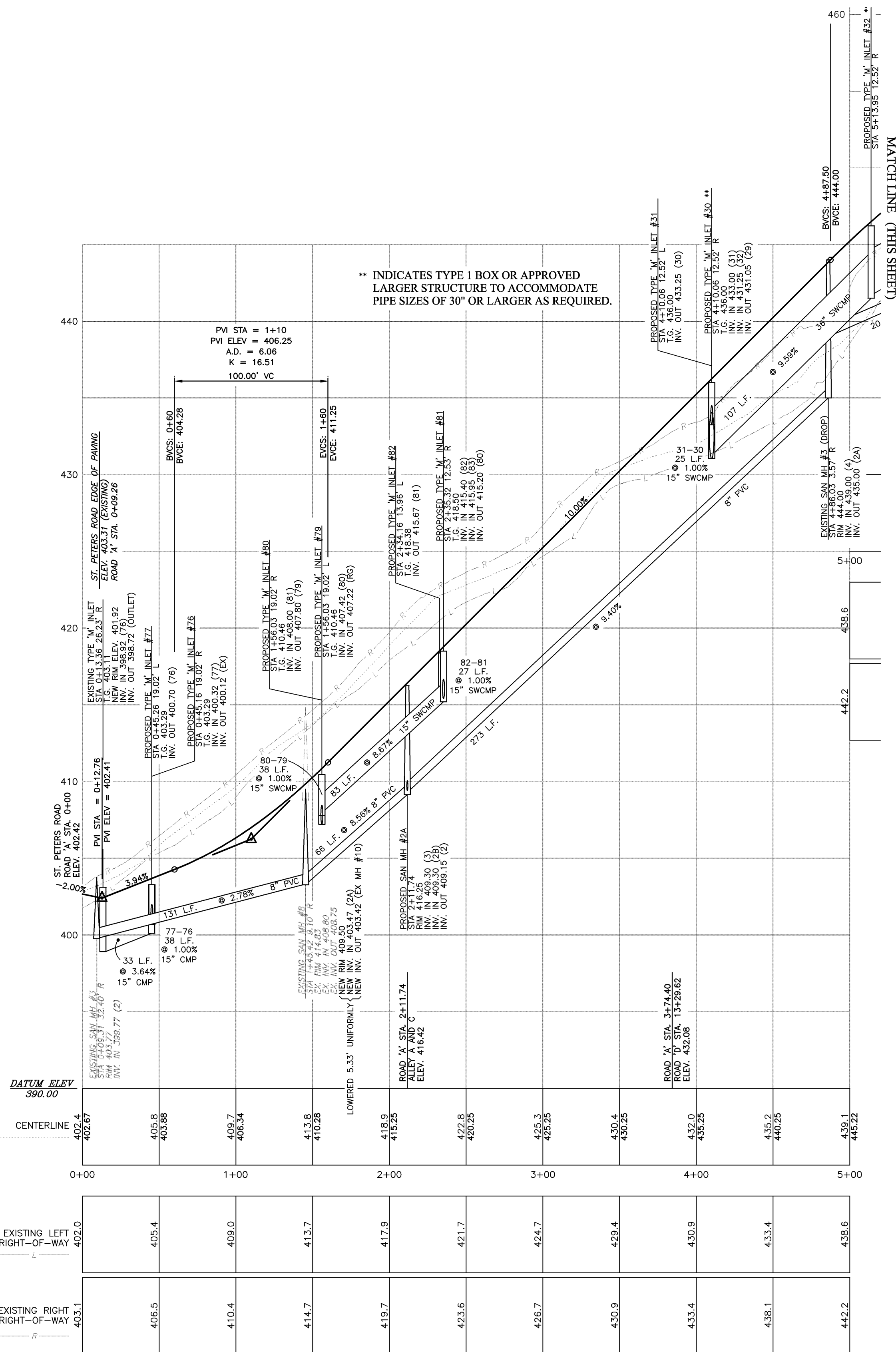


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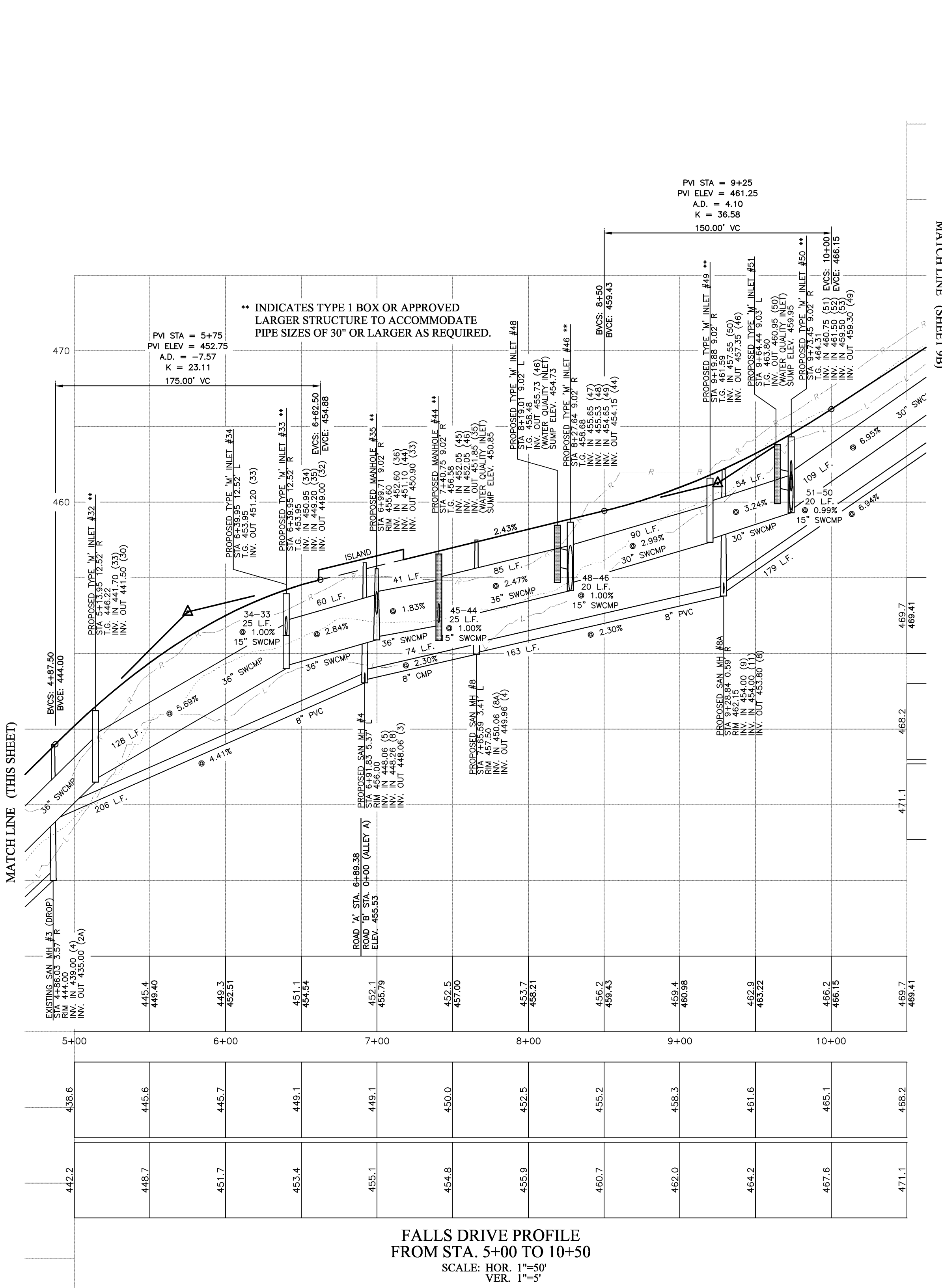
Rev.	Date	Description
FINAL EROSION AND SEDIMENTATION CONTROL NOTES / DETAILS		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PRUZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900		Project: 10001 Date: 09/05/2006 Scale: AS NOTED Drawn: TAH Checked: CAD



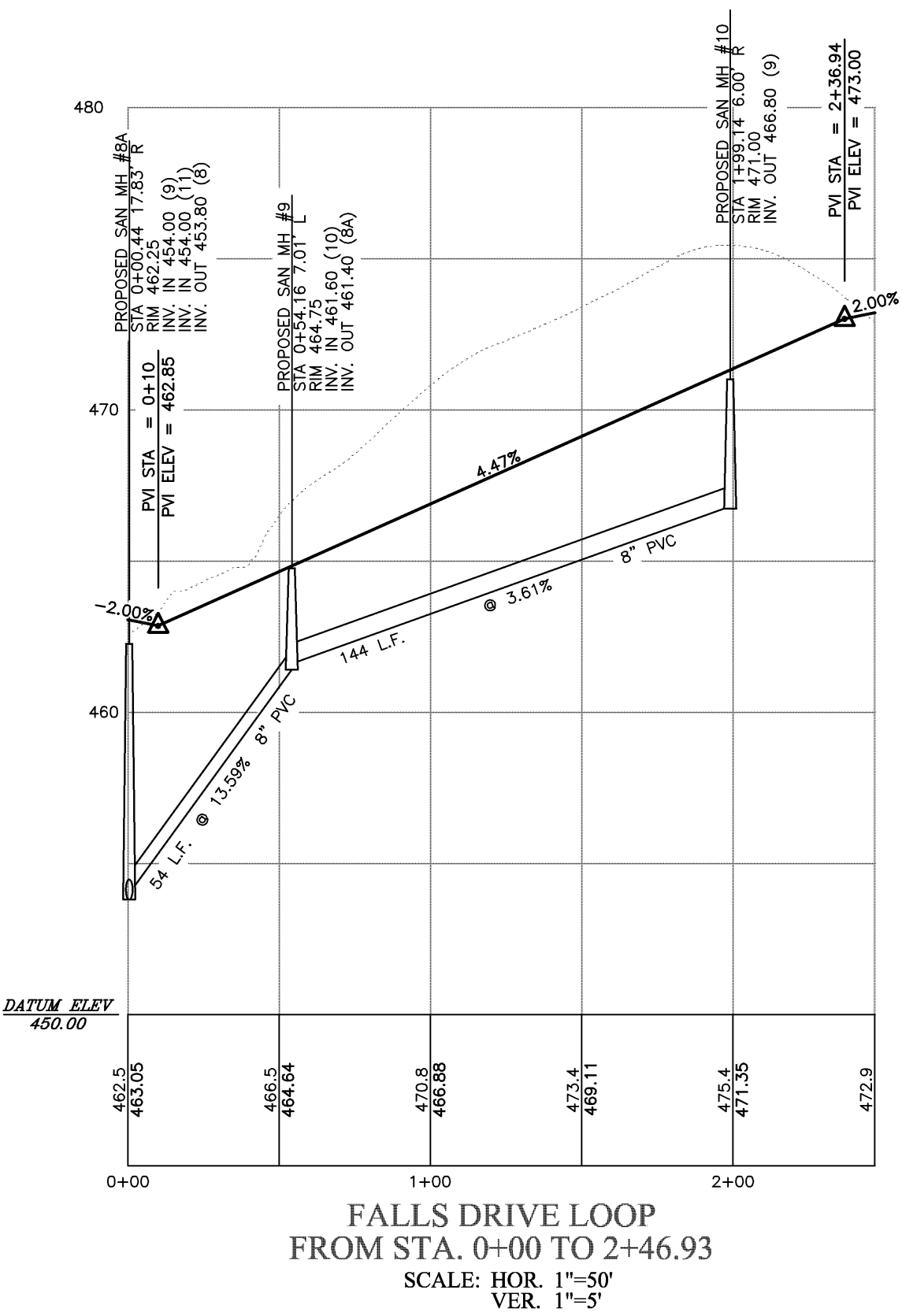
MATCHLINE (SHEET 98)



FALLS DRIVE PROFILE
FROM STA. 0+00 TO 5+00
SCALE: HOR. 1"=50'
VER. 1"=5'

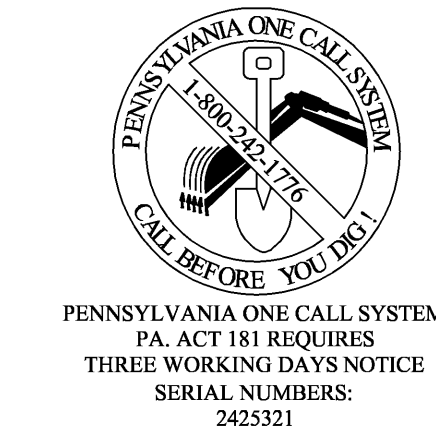


FALLS DRIVE PROFILE
FROM STA. 5+00 TO 10+50
SCALE: HOR. 1"=50'
VER. 1"=5'



FALLS DRIVE LOOP
FROM STA. 0+00 TO 2+46.93
SCALE: HOR. 1"=50'
VER. 1"=5'

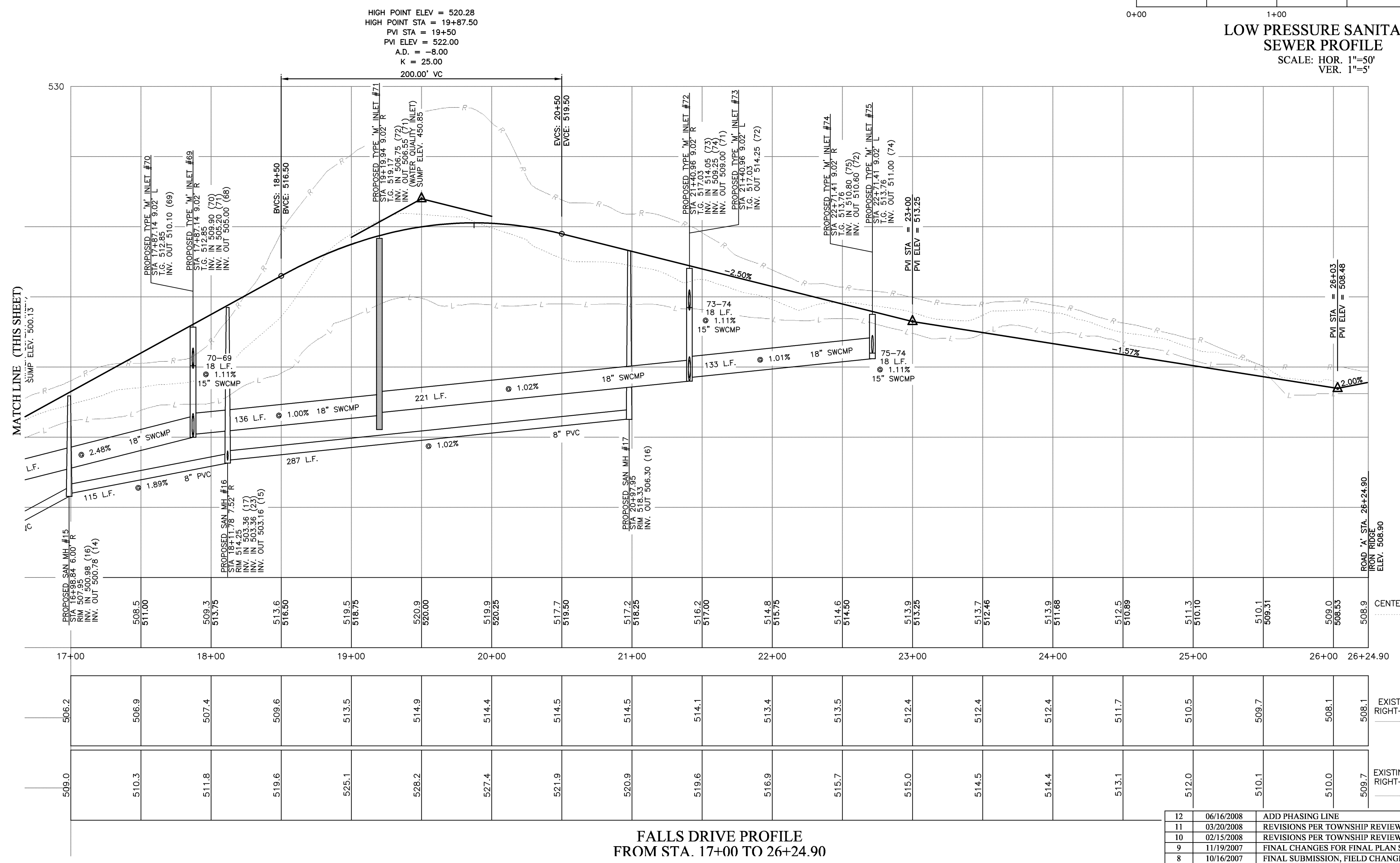
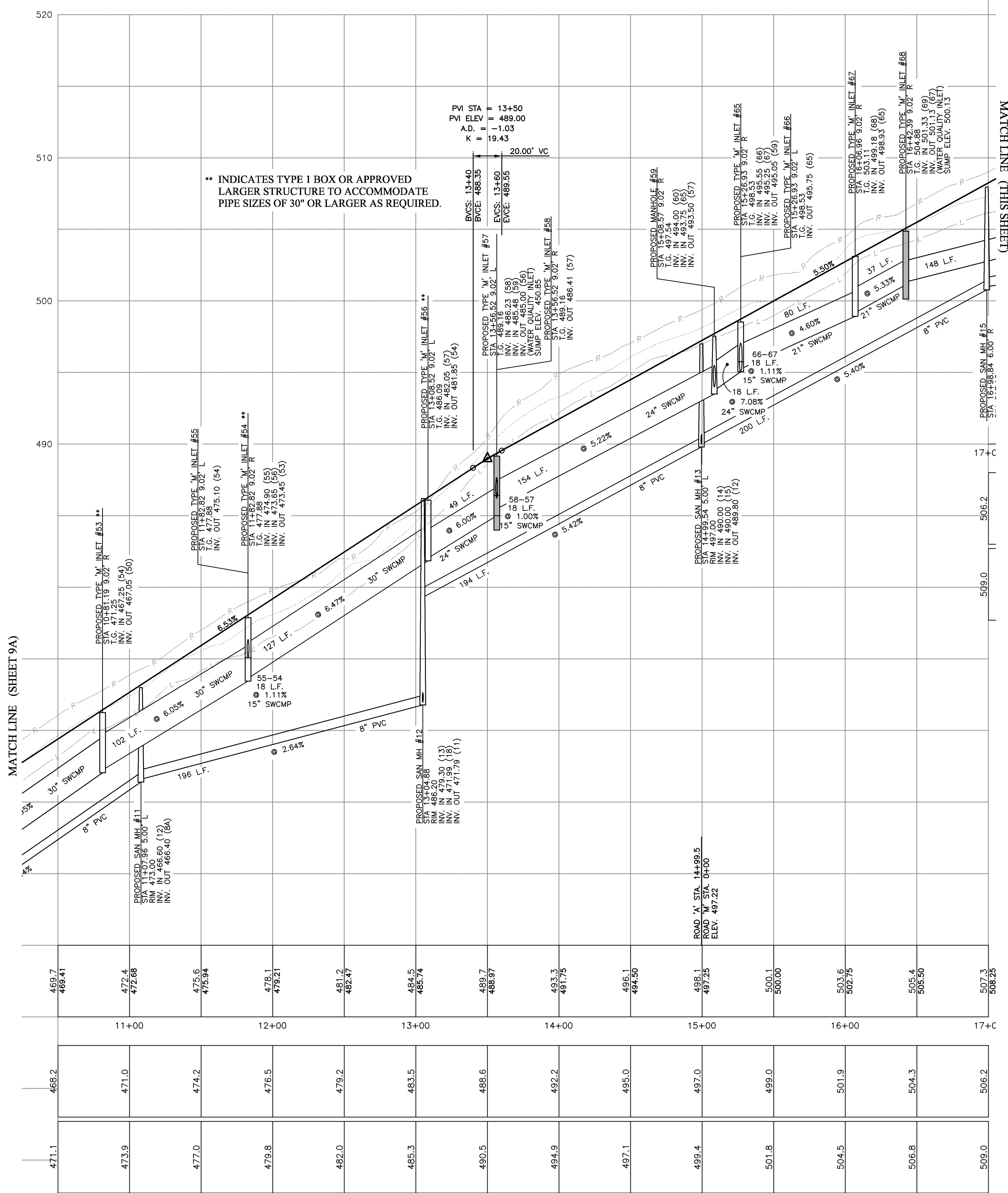
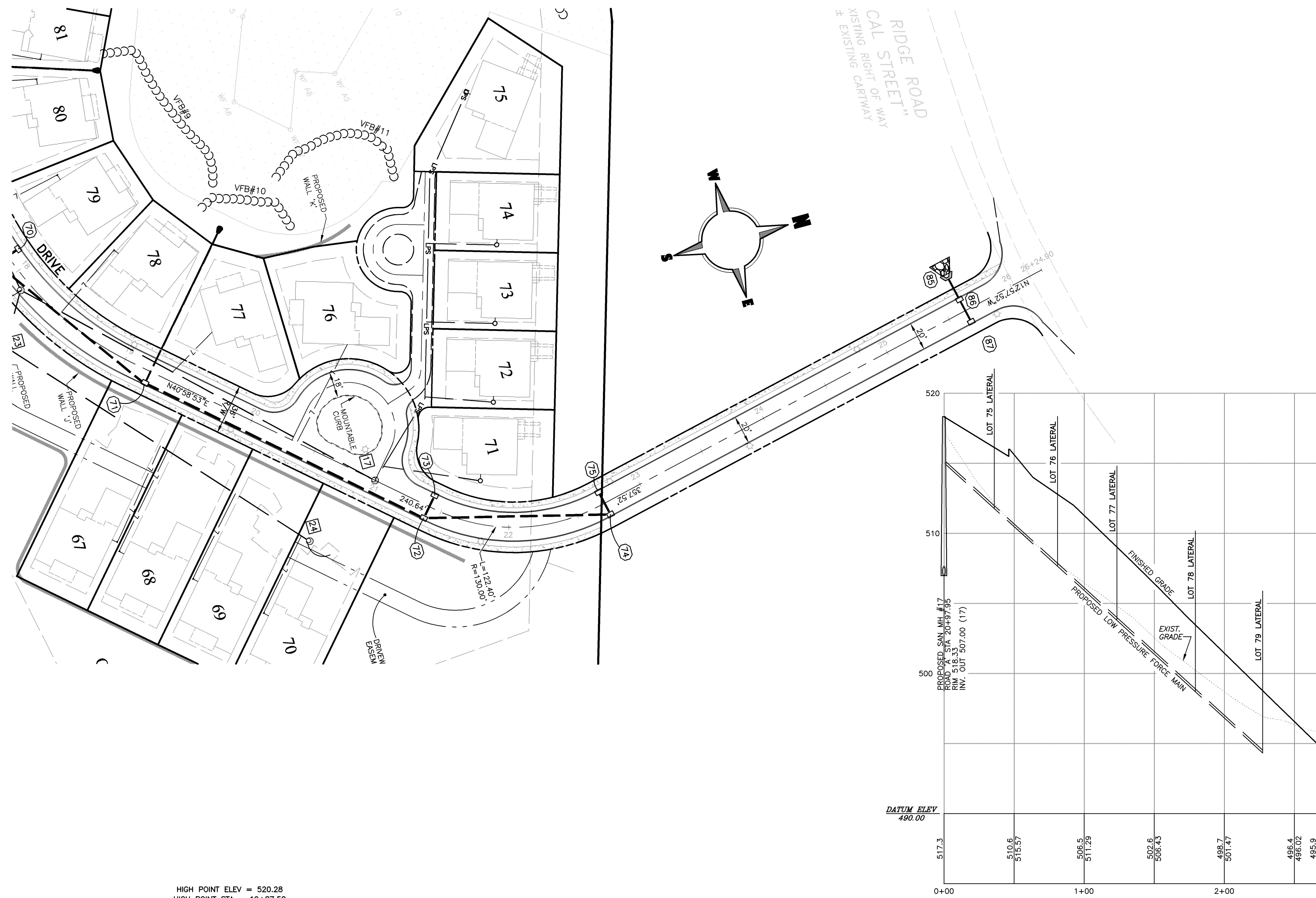
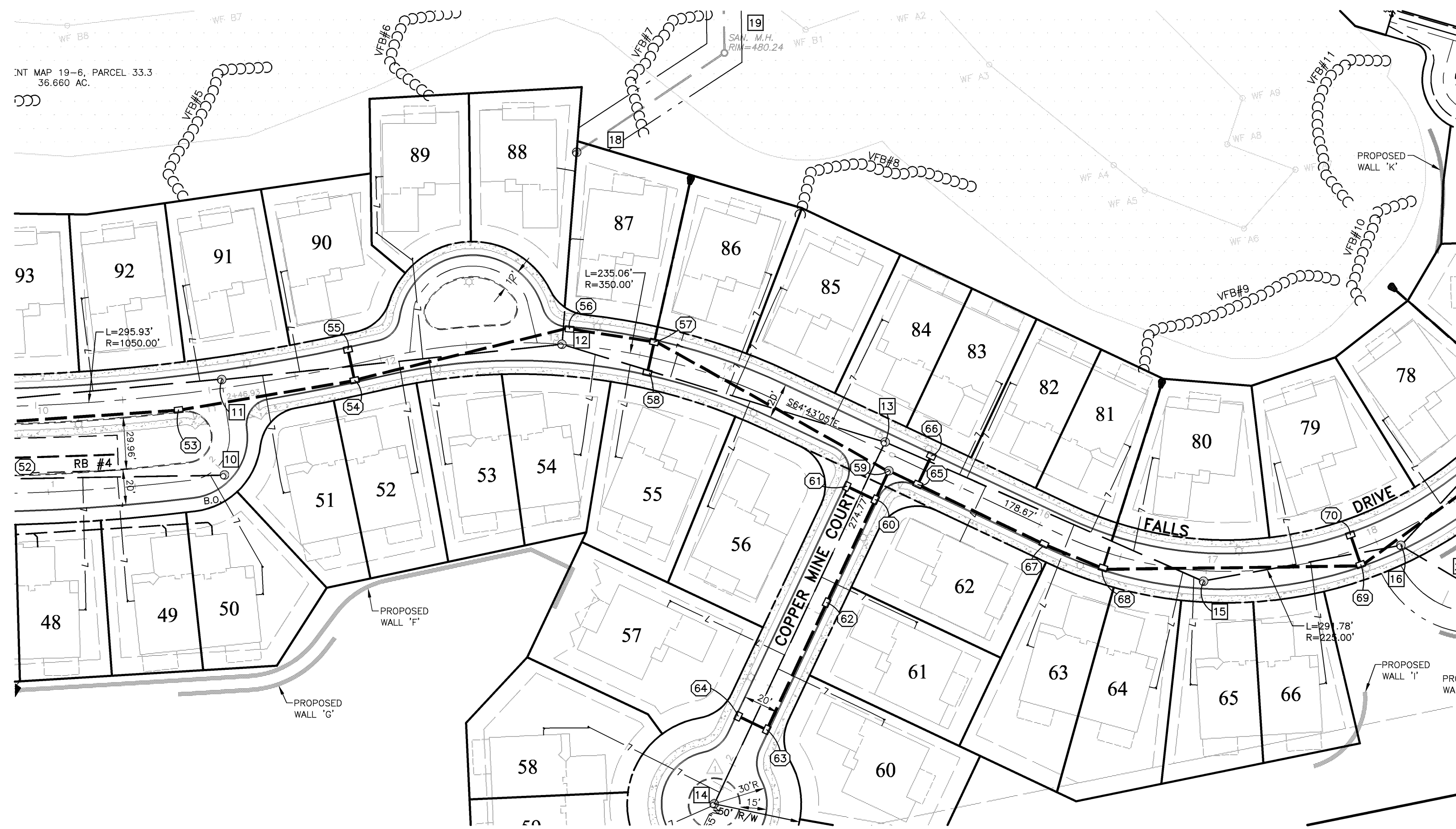
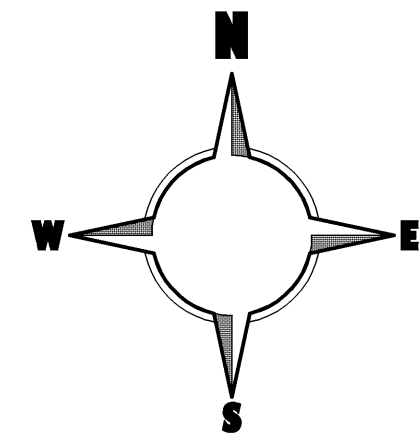
PLANS PREPARED BY:
Earth
Design Group



PENNSYLVANIA ACT BY REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
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FINAL PLAN AND PROFILE SHEET FALLS DRIVE 0+00 TO 10+50		PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS	
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		EARTH ENTERPRISES 1441 PUZZER ROAD PLUMTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900	
Project: 10001 Date: 09/05/2006 Scale: 1"=50' Drawn: TAH Checked: CAD		10A OF 36	



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PLANS PREPARED BY:

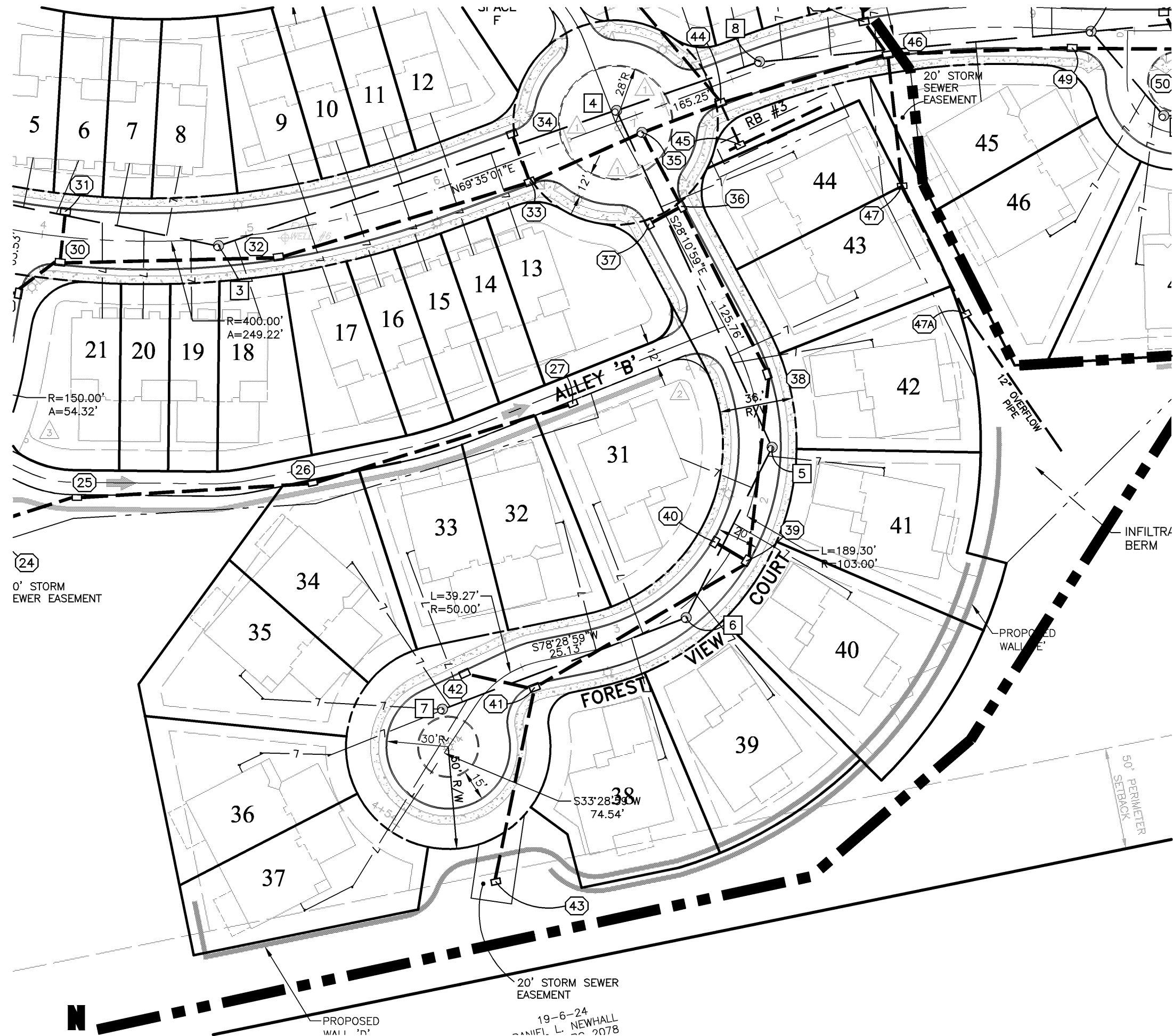
Earth
Design Group

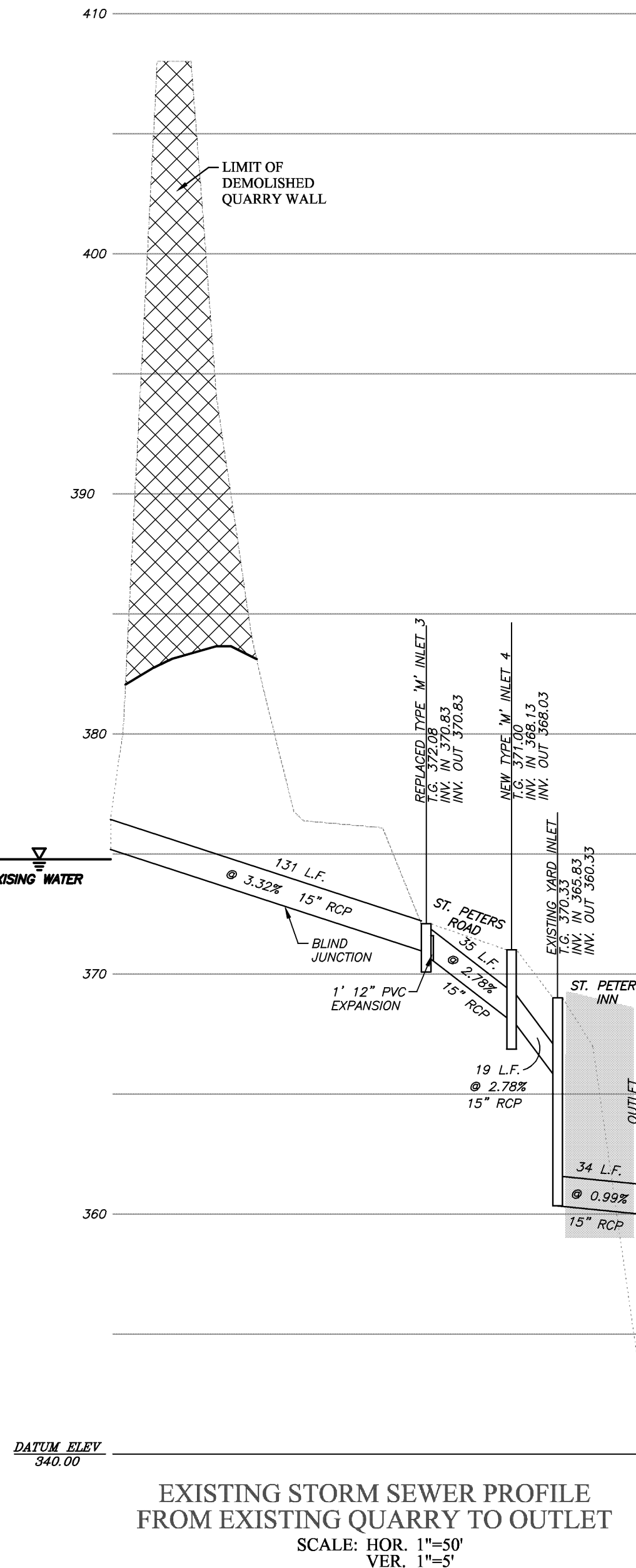
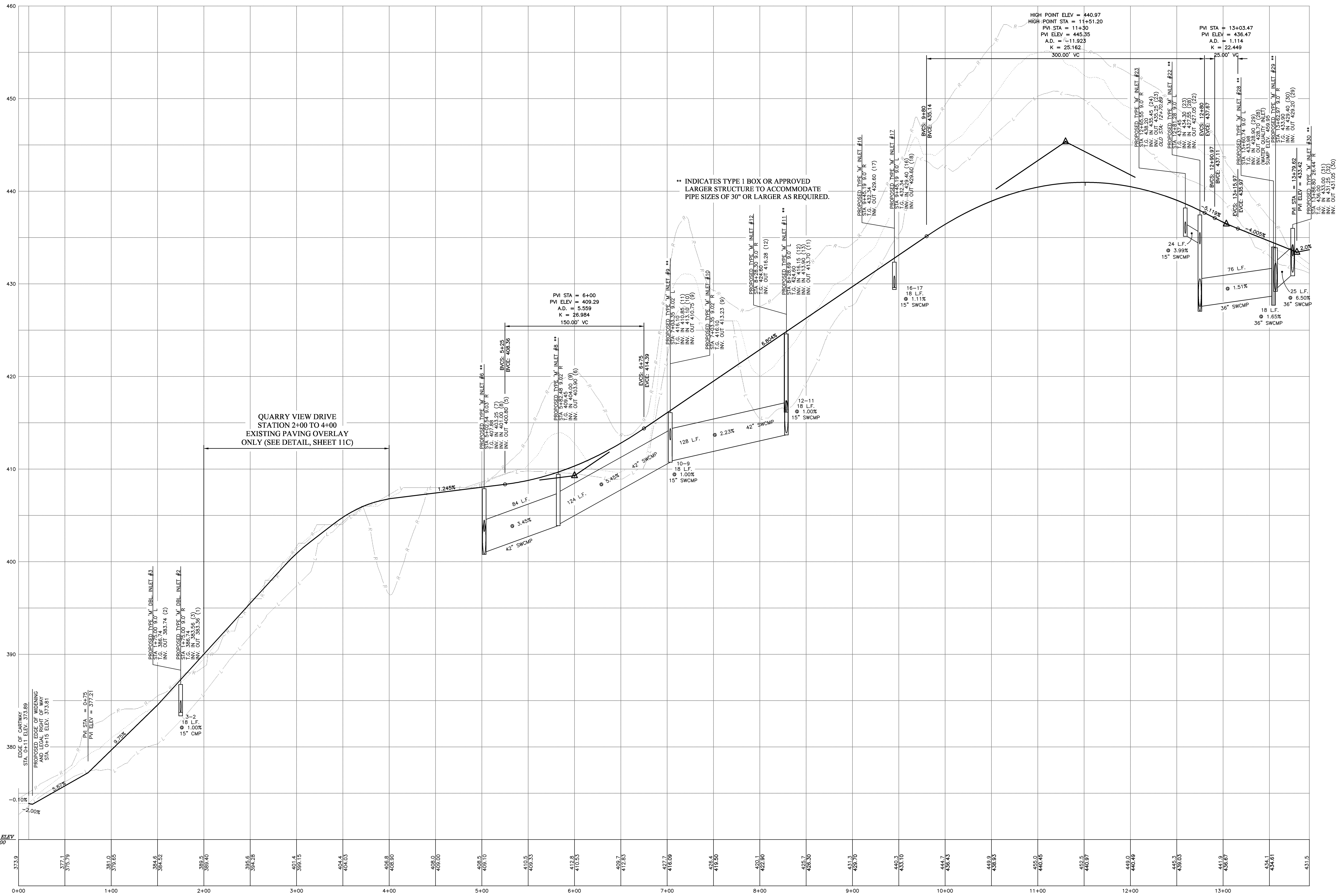
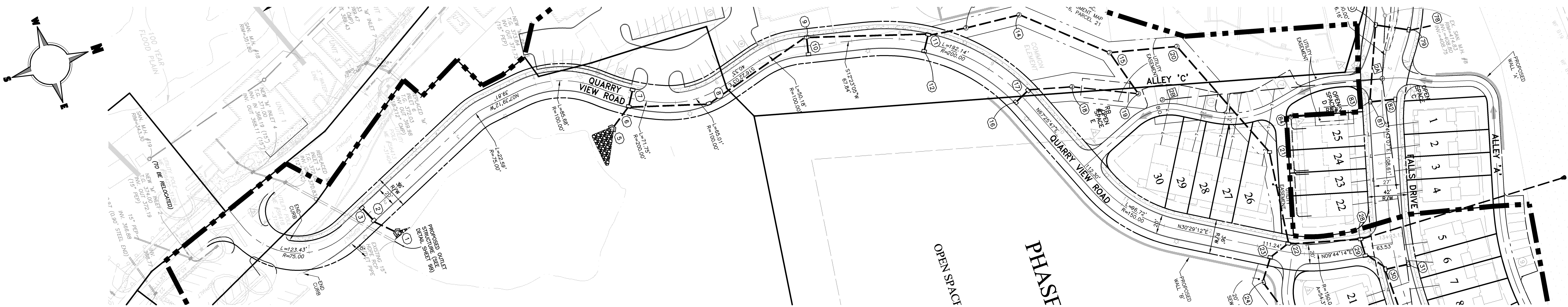
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Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		Project: 10001 10B OF 36	





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2	10/08/2006	NPDES PHASE II SUBMISSION
1	10/05/2006	REV PER TWP. ENG. LTR DATED 9/4/2006 & TWP. PLANNER LTR. DATED 9/5/2006

Rev.	Date	Description
12	06/16/2008	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/2008
9	11/19/2007	FINAL CHANGES FOR FINAL PLAN SUBMISSION
8	10/16/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/31/2007	ADDED SWOL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER CCOD LETTER DATED 02/20/2007
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PENNSYLVANIA ONE CALL SYSTEM
PA ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PLANS PREPARED BY:
1545 Hares Hill Road,
Phoenixville, PA 19380
(P) 610.955.9200
(F) 610.955.9201

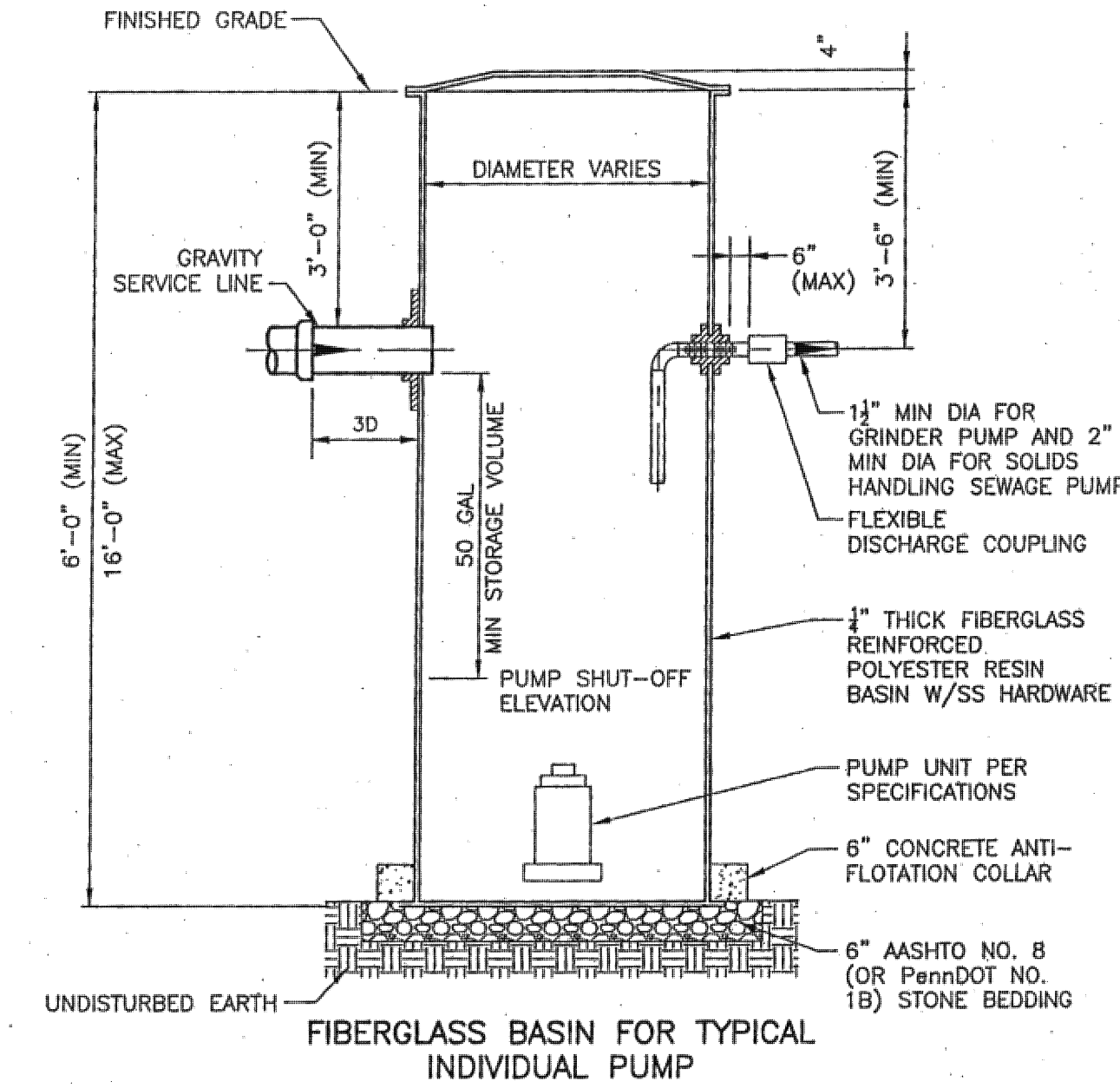
PENNSYLVANIA ACT BY REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS. FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA
EARTH ENTERPRISES
1441 PRUZER ROAD
PLIGHTOWN, PA 19465
Phone: (610) 469-8800
Fax: (610) 469-8900
Project: 10001
Date: 09/05/2006
Scale: 1"=50'
Drawn: TAH
Checked: CAD

10D
OF 36

NOTES:

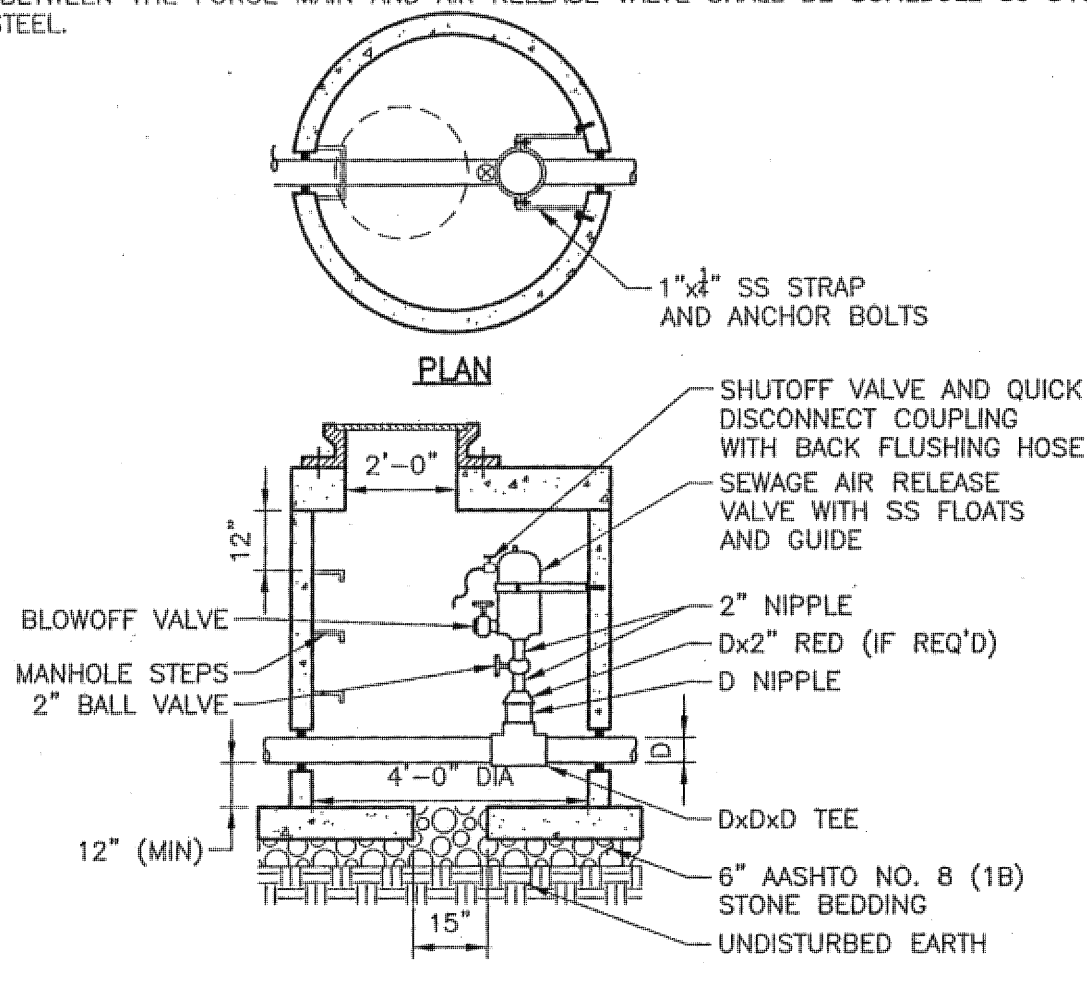
1. FIBERGLASS BASINS MAY NOT BE USED IN AREAS SUBJECT TO TRAFFIC LOADING.
2. LOCATION OF BASIN TO BE DETERMINED BY APPLICANT.
3. EXCAVATED AREA SHALL BE BACKFILLED TO 6" BELOW GRADE. BACKFILL MATERIAL SHALL BE EXCAVATED MATERIAL CONTAINING NO SOIL LUMPS, STONES, CONCRETE, OR FOREIGN OBJECTS LARGER THAN 1" MAX DIMENSION, OR AASHTO NO. 8 STONE.
4. FINISHED GRADE SHALL BE SLOPED AWAY FROM THE BASIN TOP.



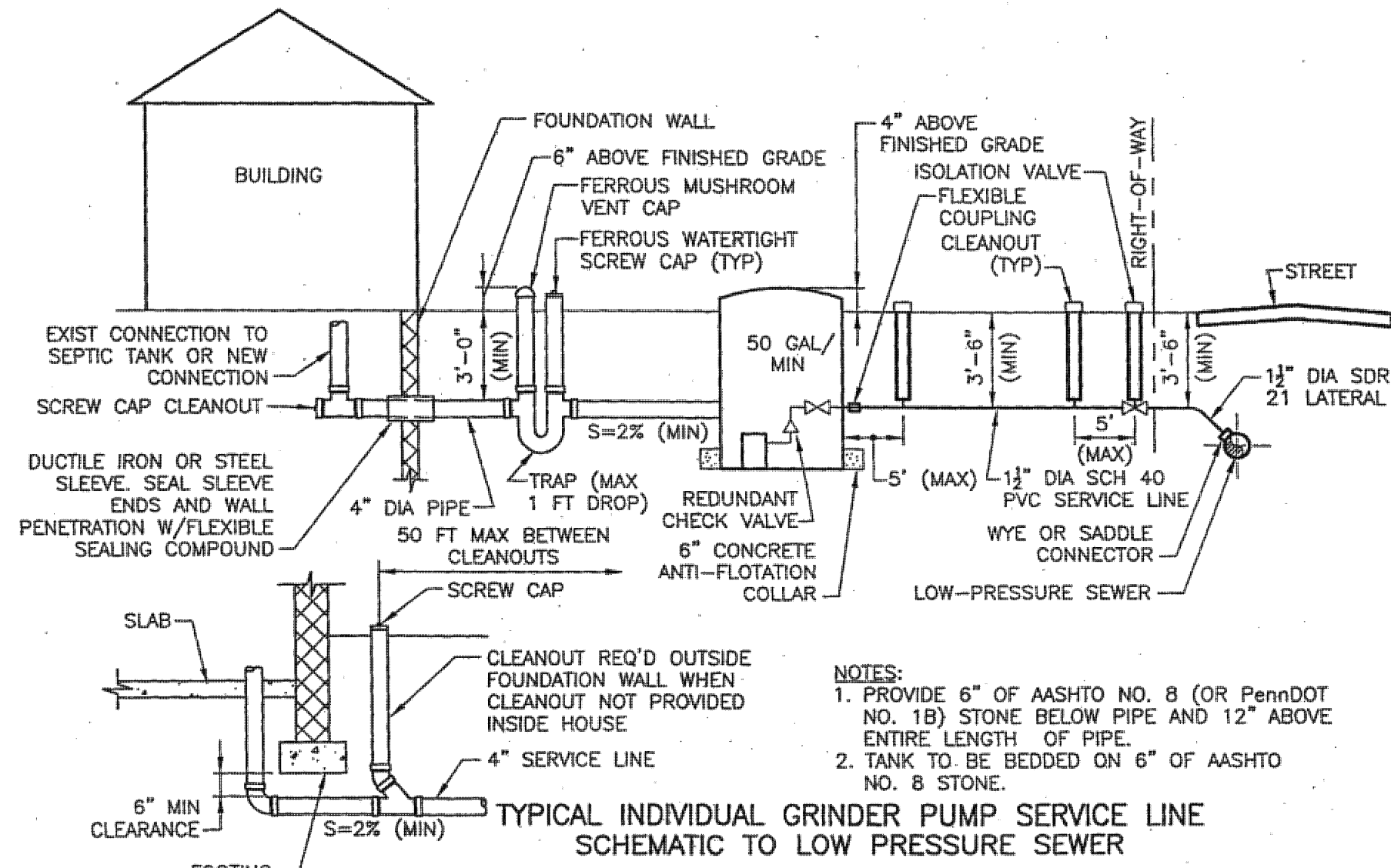
FIBERGLASS BASIN FOR TYPICAL INDIVIDUAL PUMP

NOTES:

1. ALL PRECAST REINFORCED CONCRETE MANHOLE SECTIONS SHALL COMPLY WITH ASTM C-478.
2. CEMENT SHALL BE TYPE II OR III, AIR ENTRAINED, WITH $f_c=4,000$ psi AT 28 DAYS.
3. REINFORCEMENT SHALL BE GRADE 60 PER ASTM A-615.
4. 24" DIA. CAST IRON FRAME AND COVER PER ASTM A-48, CLASS 30, FOR H-20 LOADING.
5. CAST IRON FRAME TO BE BOLTED TO MANHOLE WITH 5/8" ANCHOR BOLTS.
6. CASTING AND GRADE RINGS TO BE SEALED TO MANHOLE WITH PREFORMED PLASTIC SEALING COMPOUND.
7. ALL JOINTS SHALL BE SEALED WITH PREFORMED PLASTIC SEALING COMPOUND.
8. LINE MANHOLE INTERIOR W/T-LOCK PVC OR HDPE LINER SYSTEM.
9. ALL PIPING BETWEEN THE FORCE MAIN AND AIR RELEASE VALVE SHALL BE SCHEDULE 80 316 STAINLESS STEEL.



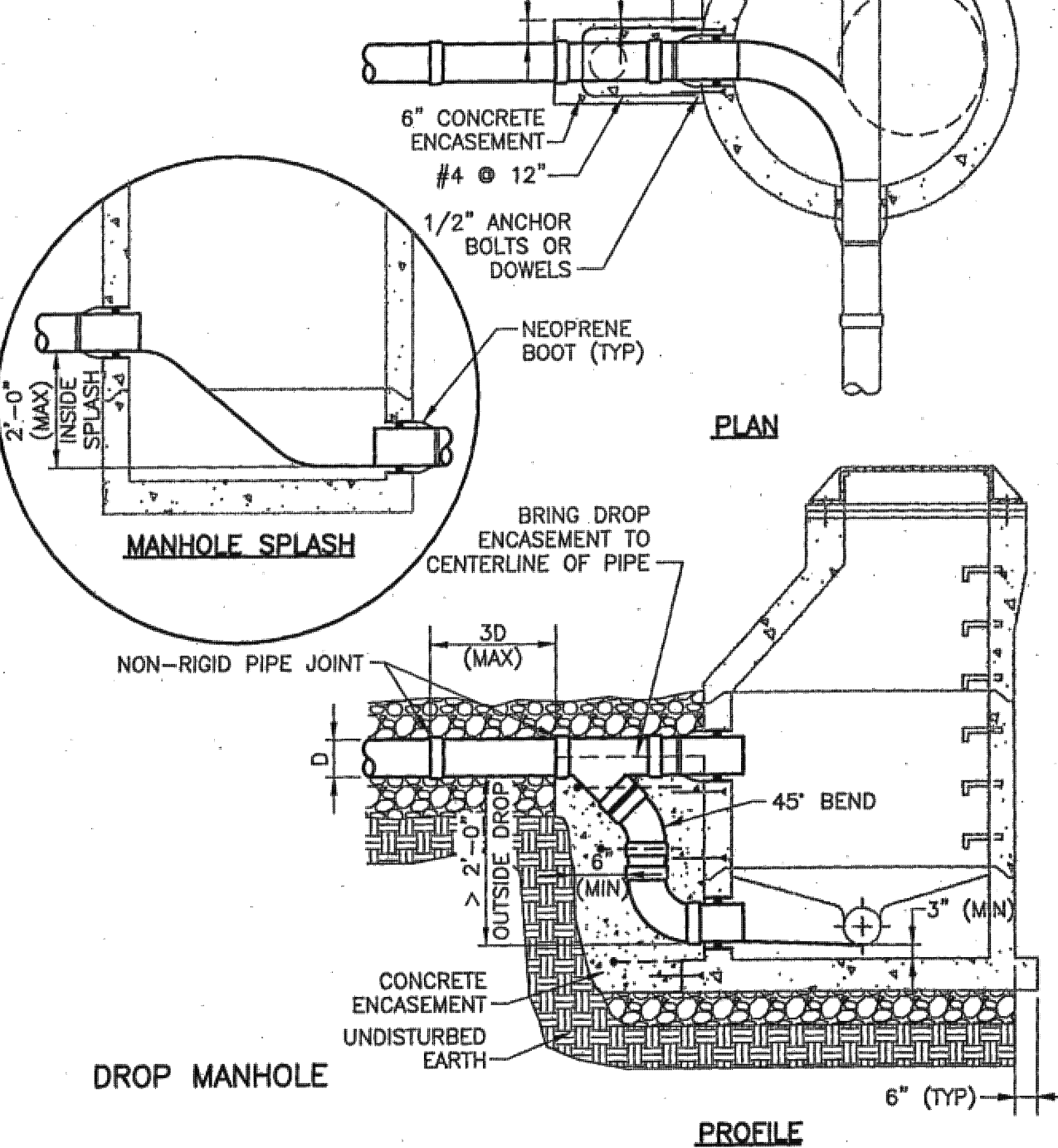
AIR RELEASE VALVE AND CHAMBER



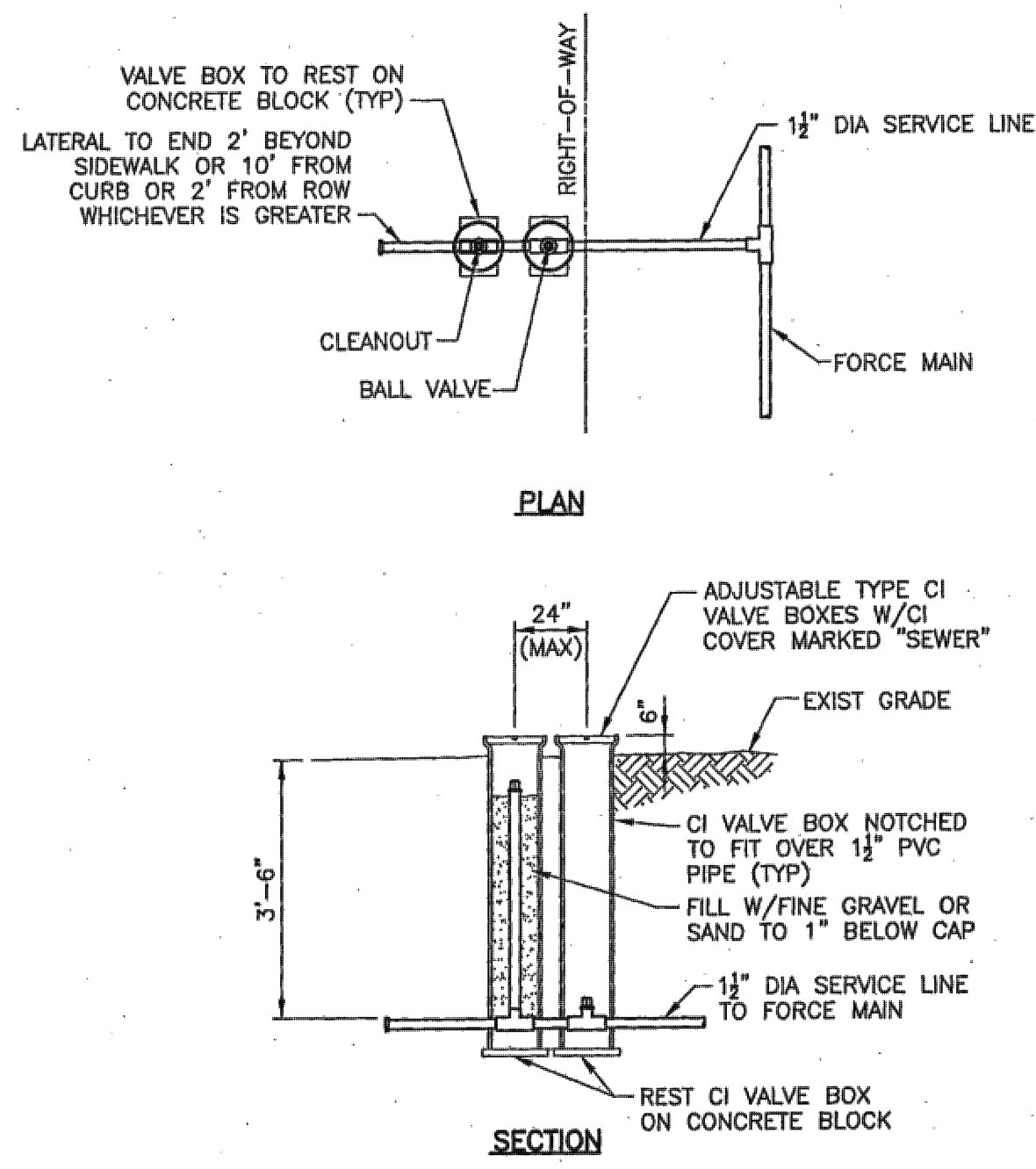
- NOTES:**
1. PROVIDE 6" OF AASHTO NO. 8 (OR PennDOT NO. 1B) STONE BELOW PIPE AND 12" ABOVE ENTIRE LENGTH OF PIPE.
 2. TANK TO BE BEDDED ON 6" OF AASHTO NO. 8 STONE.

INTERIOR COATING/LINING:

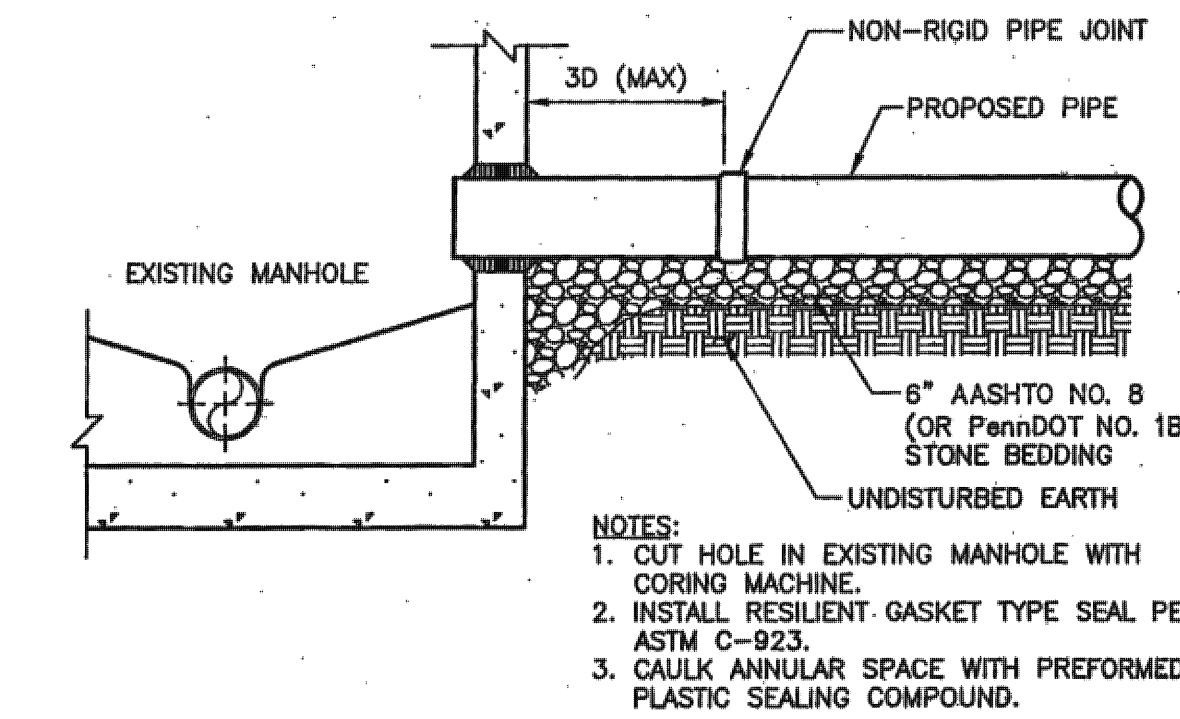
1. FOR DROPS LESS THAN 2 FEET, USE MANHOLE COATINGS.
2. LINE ALL OUTSIDE DROP MANHOLE INVERTS, WALLS, AND CONE SECTION W/T-LOCK PVC OR HDPE LINER SYSTEM.



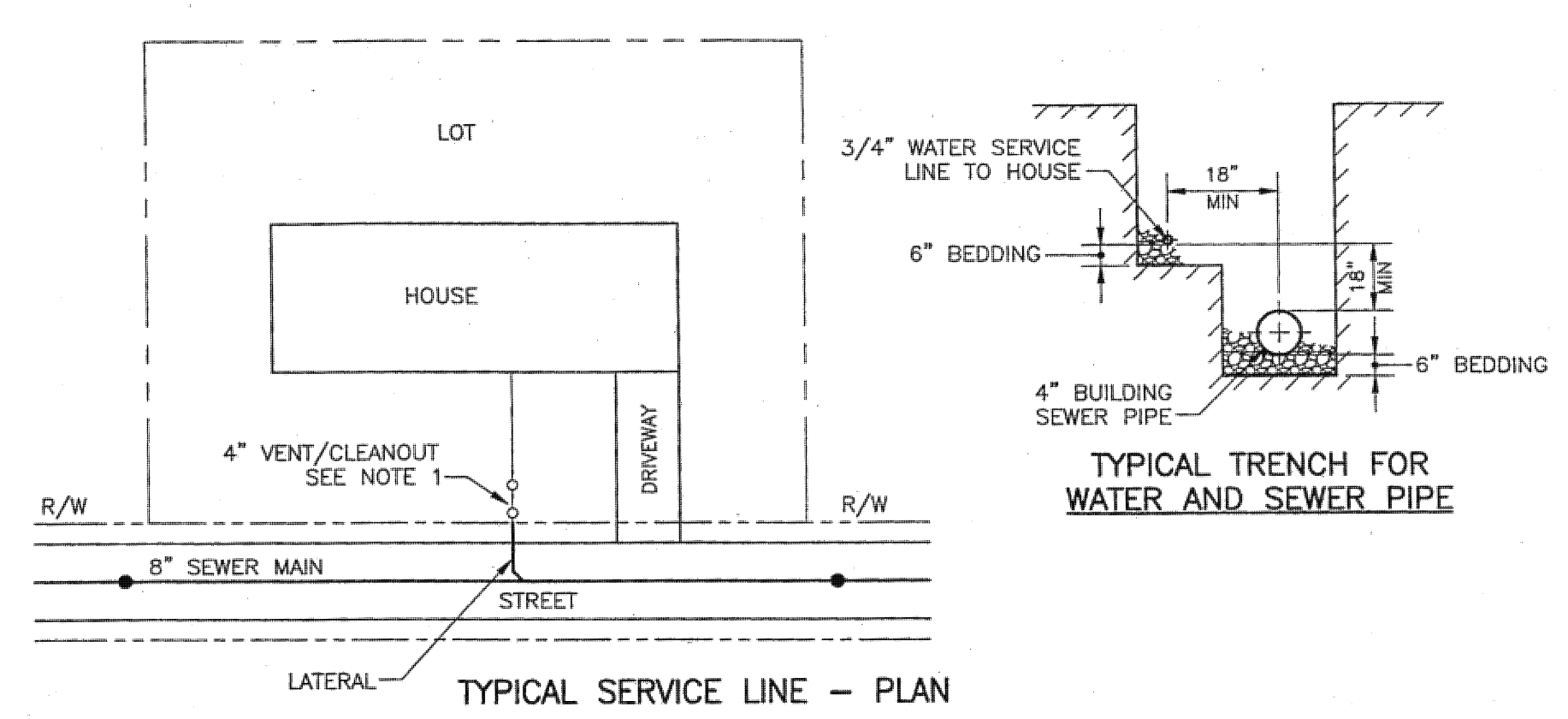
DROP MANHOLE



TYPICAL LATERAL CONNECTION TO LOW PRESSURE FORCE MAIN

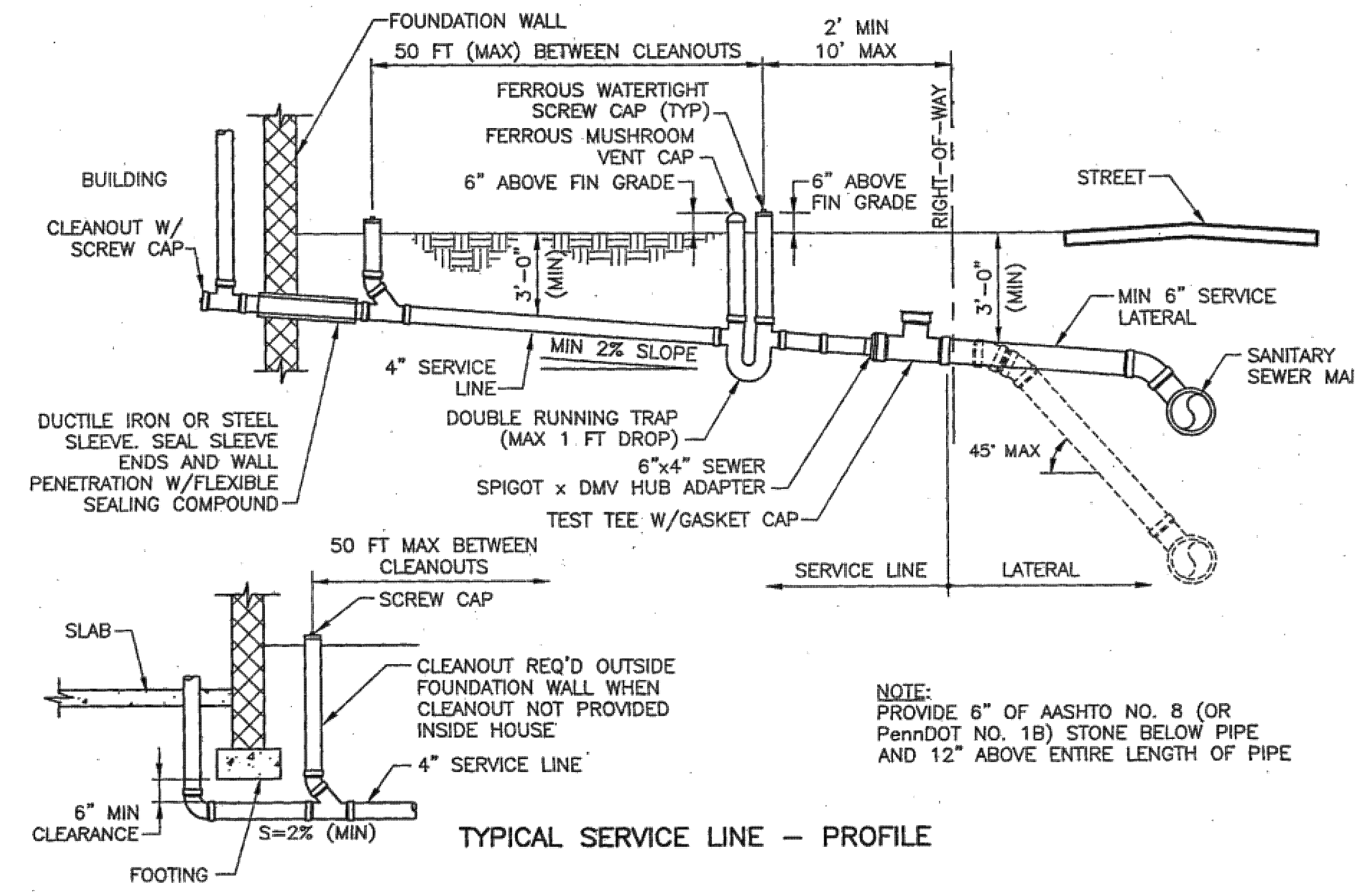


FLEXIBLE CONNECTION AT MANHOLE
NEW SEWER TO EXISTING MANHOLE CONNECTION



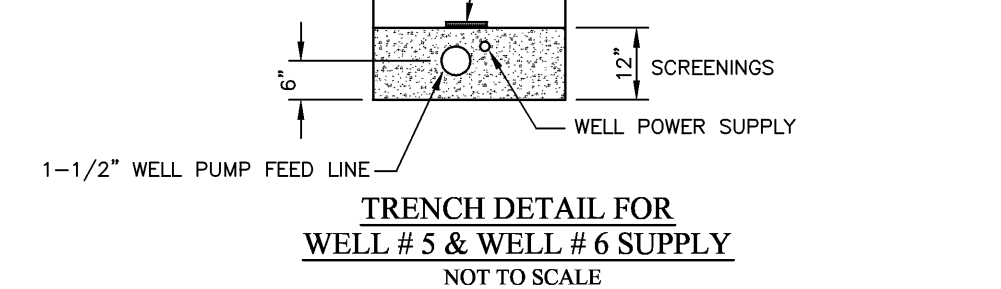
TYPICAL TRENCH FOR WATER AND SEWER PIPE

- NOTES:**
1. ALL VENTS AND CLEANOUTS SHALL BE LOCATED IN THE YARD AREA AND NOT IN DRIVEWAY.
 2. IF SEWER LATERAL IS LOCATED UNDER DRIVEWAY, ADD FITTINGS AND PIPE AS REQUIRED TO LOCATE VENTS AND CLEANOUT IN YARD AREA.
 3. VENTS AND CLEANOUTS SHALL BE A MINIMUM OF 6" ABOVE FINISHED GRADE.
 4. IF 18" VERTICAL SEPARATION CANNOT BE MAINTAINED BETWEEN WATER AND SEWER SERVICES, PROVIDE 5" HORIZONTAL SEPARATION WITH WATER ABOVE SEWER.

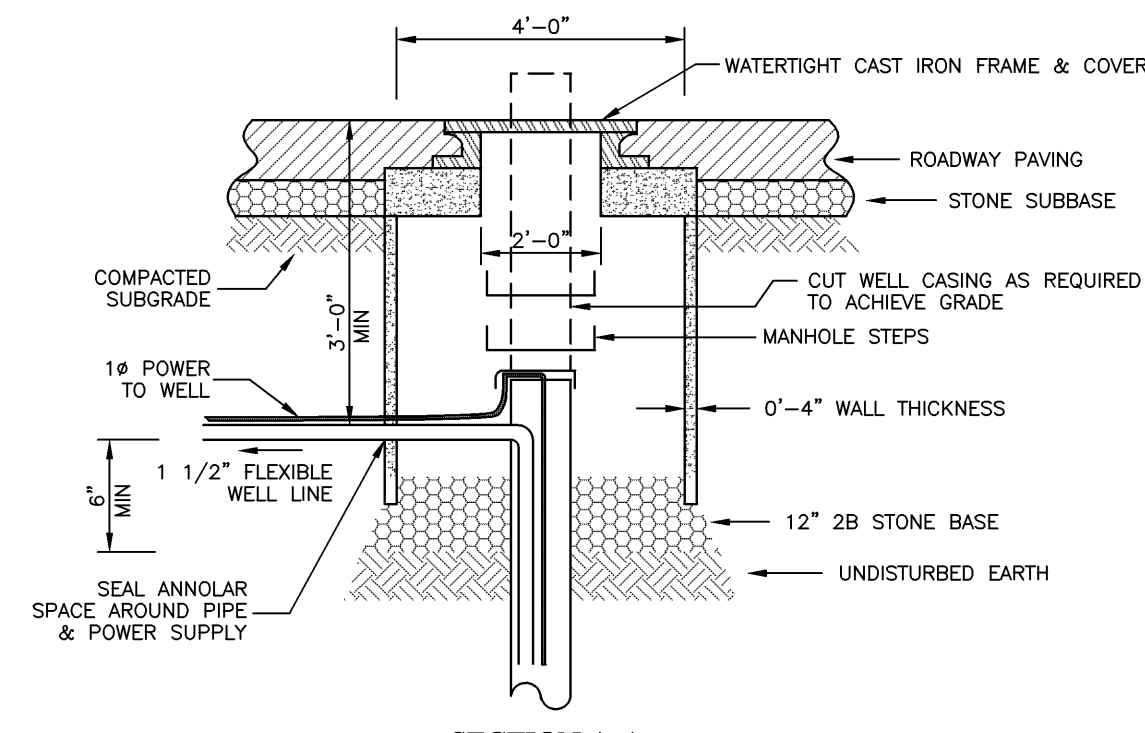


TYPICAL SERVICE LINE - PROFILE

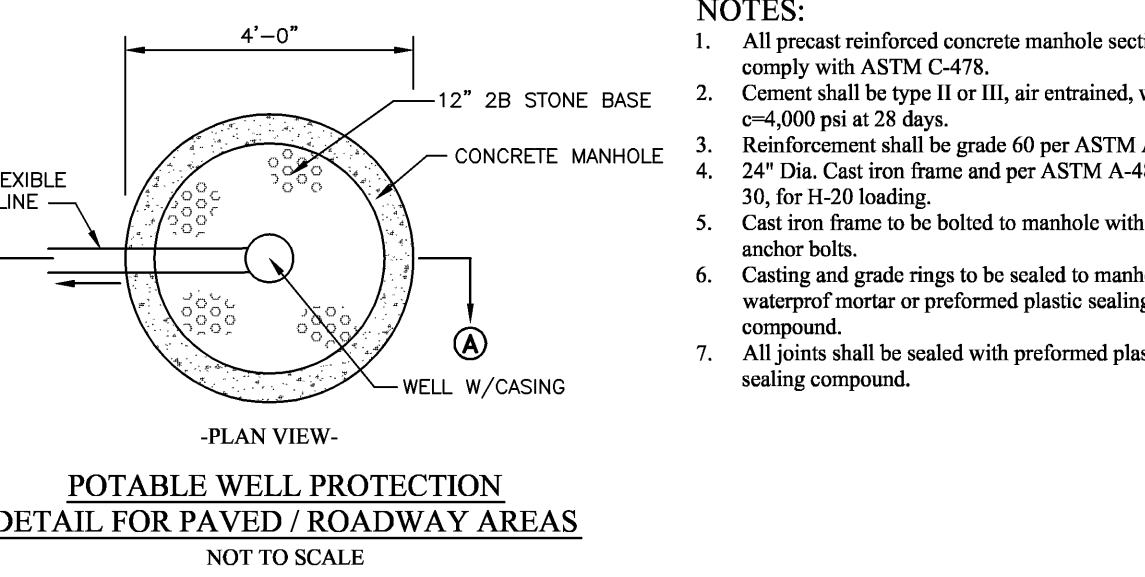
- NOTE:**
- For Combined Water/Power supply for wells 5&6 in the same trench, provide 6" separation between lines.



TRENCH DETAIL FOR WELL # 5 & WELL # 6 SUPPLY
NOT TO SCALE

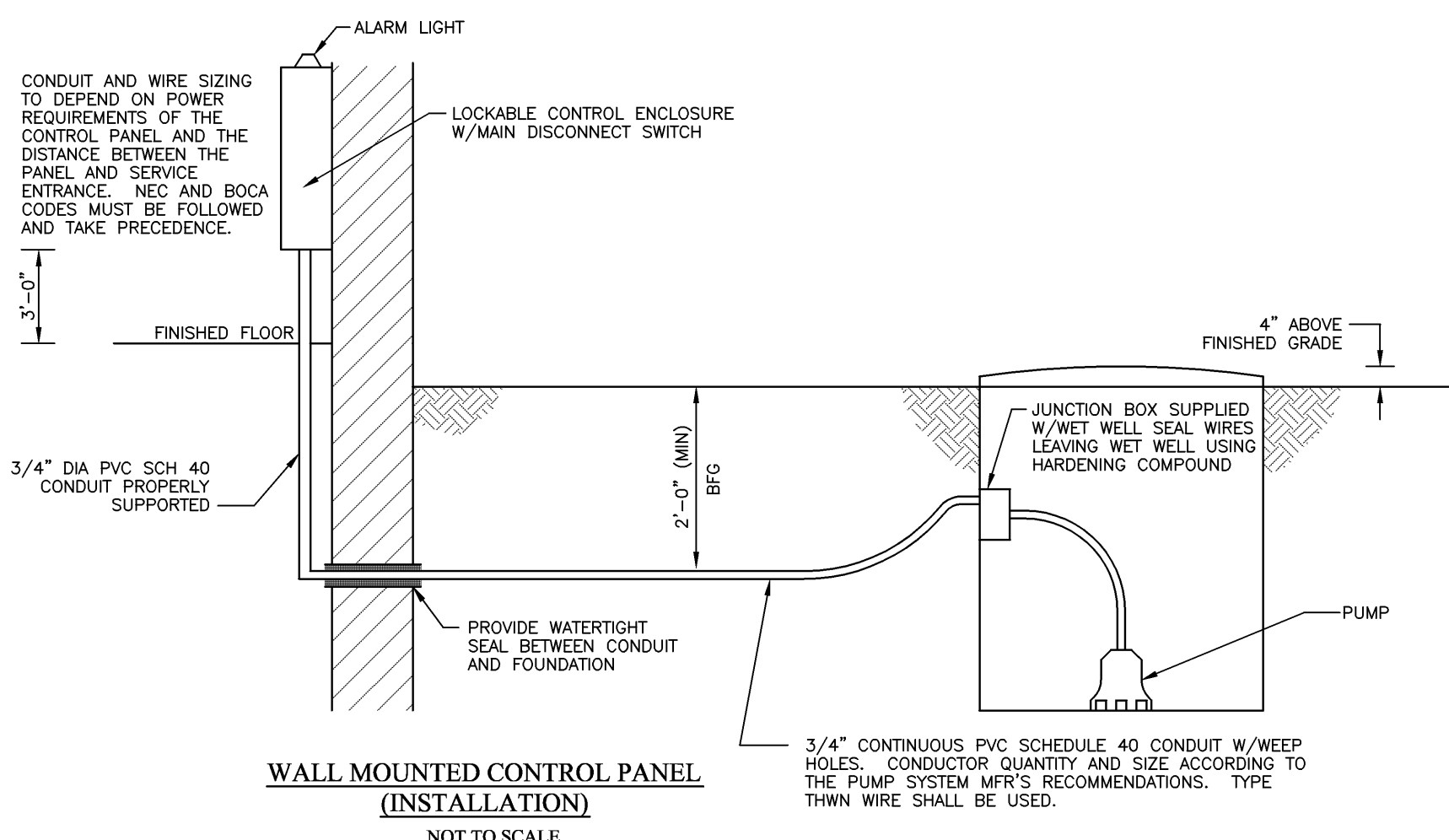


SECTION A-A



POTABLE WELL PROTECTION
DETAIL FOR PAVED / ROADWAY AREAS
NOT TO SCALE

- NOTES:**
1. All precast reinforced concrete manhole sections shall comply with ASTM C-478.
 2. Cement shall be type II or III, air entrained, with $f_c=4,000$ psi at 28 days.
 3. Reinforcement shall be grade 60 per ASTM A-615.
 4. 24" DIA. Cast Iron frame and per ASTM A-48, class 30, for H-20 loading.
 5. Cast iron frame to be bolted to manhole with 5/8" anchor bolts.
 6. Casting and grade rings to be sealed to manhole with waterproof mortar or preformed plastic sealing compound.
 7. All joints shall be sealed with preformed plastic sealing compound.



WALL MOUNTED CONTROL PANEL
(INSTALLATION)
NOT TO SCALE



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EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLAN. FOR OVER 20 YEARS EARTH ENTERPRISES HAS BEEN THE
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

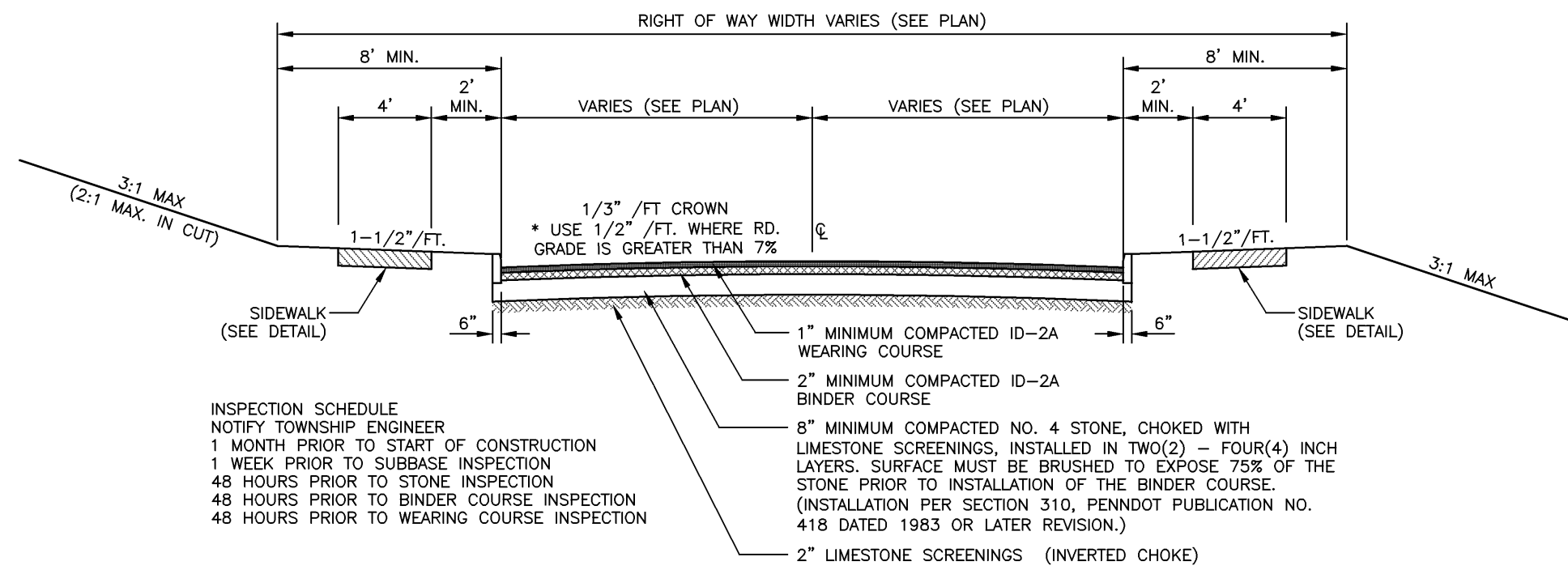
PLANS PREPARED BY:

Earth
Design Group

1545 Haver Hill Road
Pleasantville, PA 19460
(P) 610.955.9200
(F) 610.955.9201

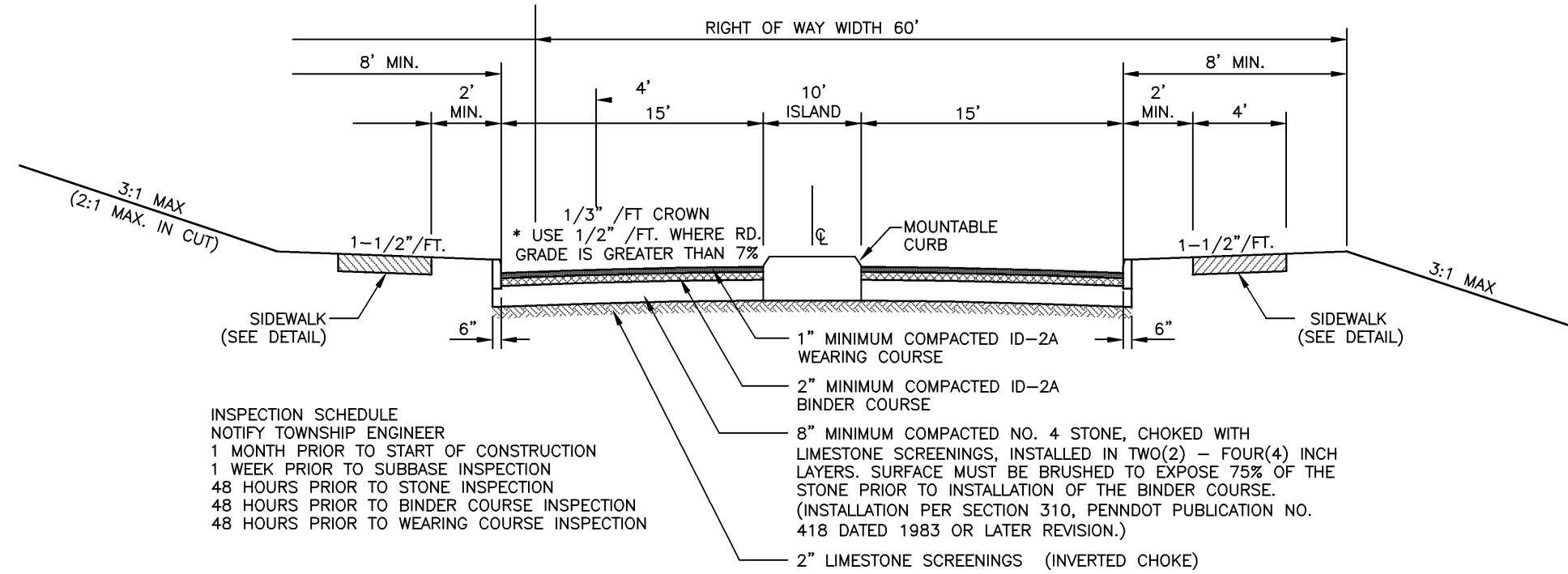
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Rev.	Date	Description
FINAL CONSTRUCTION DETAILS		
PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA		
EARTH ENTERPRISES 1441 PRUZZER ROAD PLEASANTVILLE, PA 19460 Phone: (610) 469-8900 Fax: (610) 469-8900		
Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD		



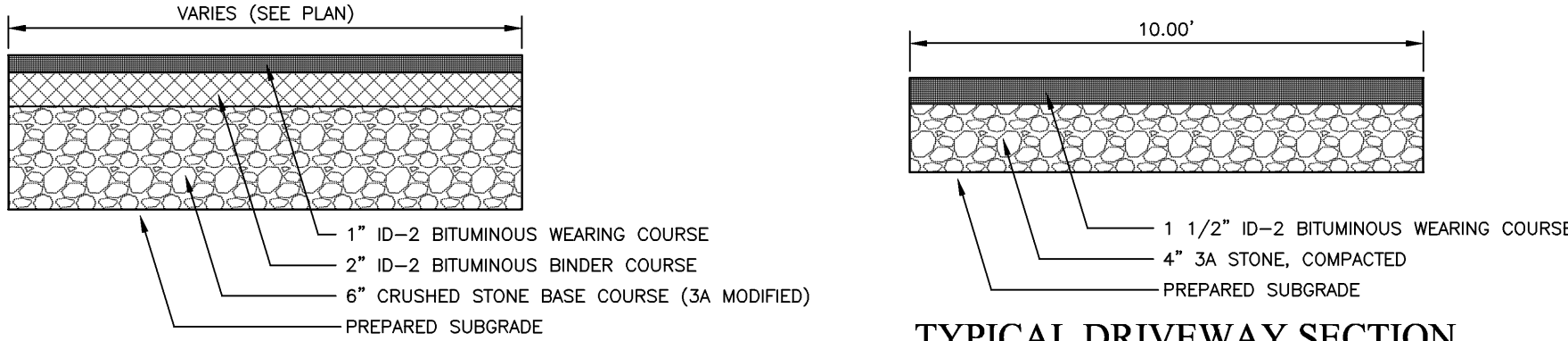
TYPICAL ROAD CROSS SECTION

NOT TO SCALE
ALTERNATE ALLEY / PARKING PAVING SECTION
1.5\"/>



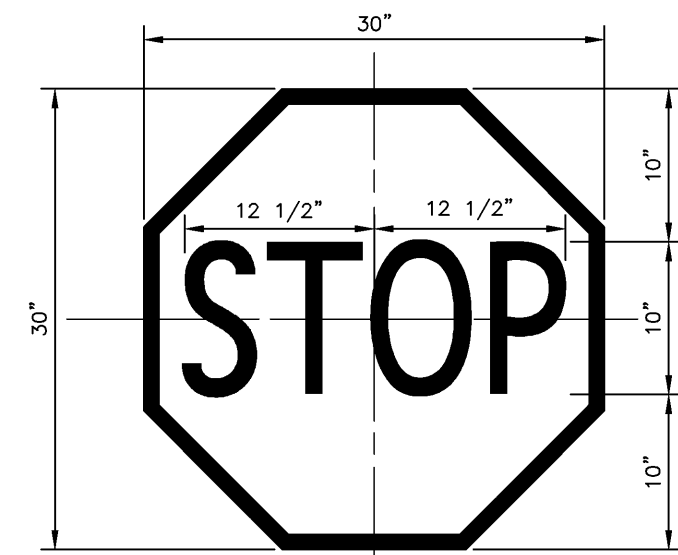
ROAD 'A' ENTRANCE CROSS SECTION

NOT TO SCALE
ALTERNATE ALLEY / PARKING PAVING SECTION
1.5\"/>



TYPICAL ALLEY / PARKING LOT SECTION

TYPICAL DRIVEWAY SECTION



STOP SIGN DETAIL

NOT TO SCALE



BEGIN ONE WAY SIGN (R6-12)

24\"/>



ONEWAY SIGN (R6-1L)

36\"/>



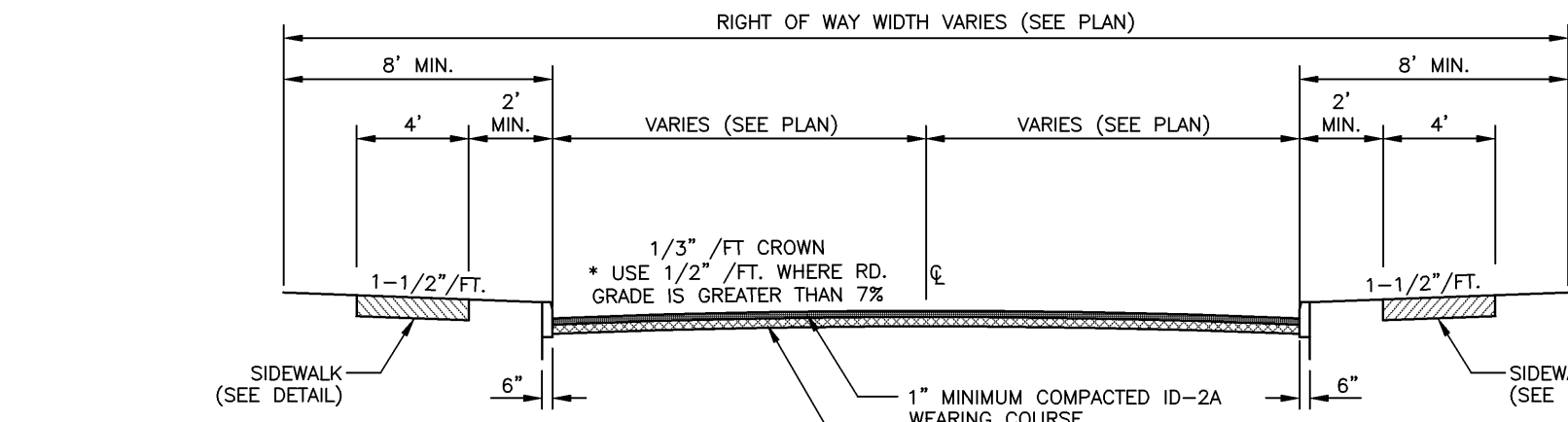
ONEWAY SIGN (R6-1R)

36\"/>



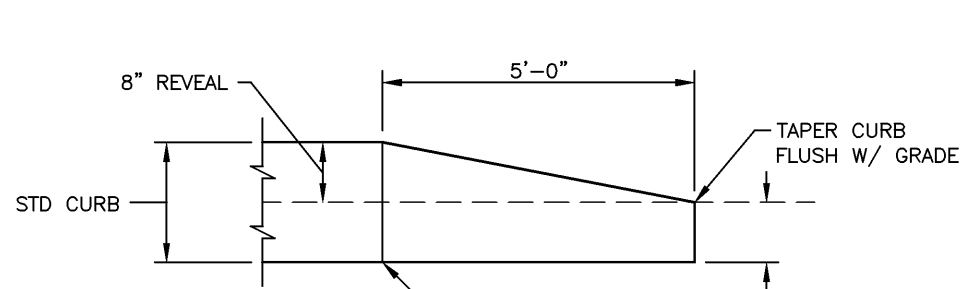
DO NOT ENTER (R5-1)

36\"/>



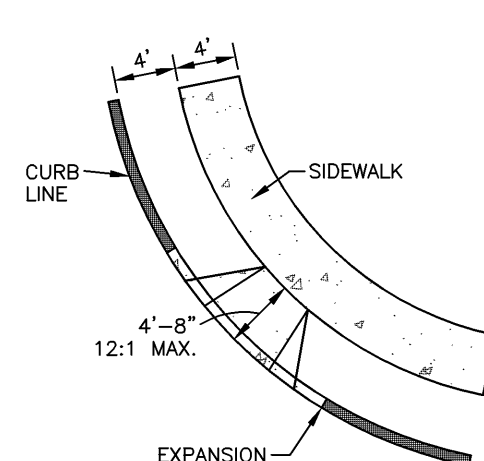
QUARRY VIEW ROAD (STA. 2+00 - 4+00 OVERLAY)

NOT TO SCALE



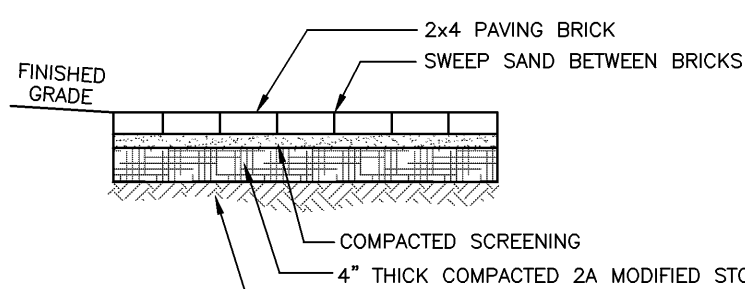
CURB END TREATMENT DETAIL

NOT TO SCALE



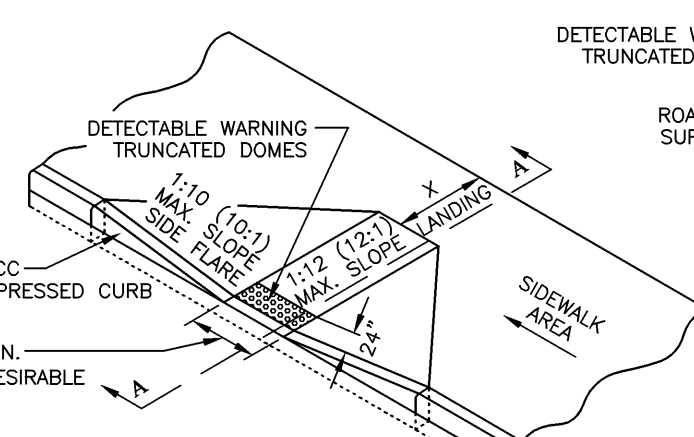
TYPICAL SIDEWALK RAMP AT INTERSECTION

NOT TO SCALE



TYPICAL BRICK SIDEWALK SECTION

NOT TO SCALE

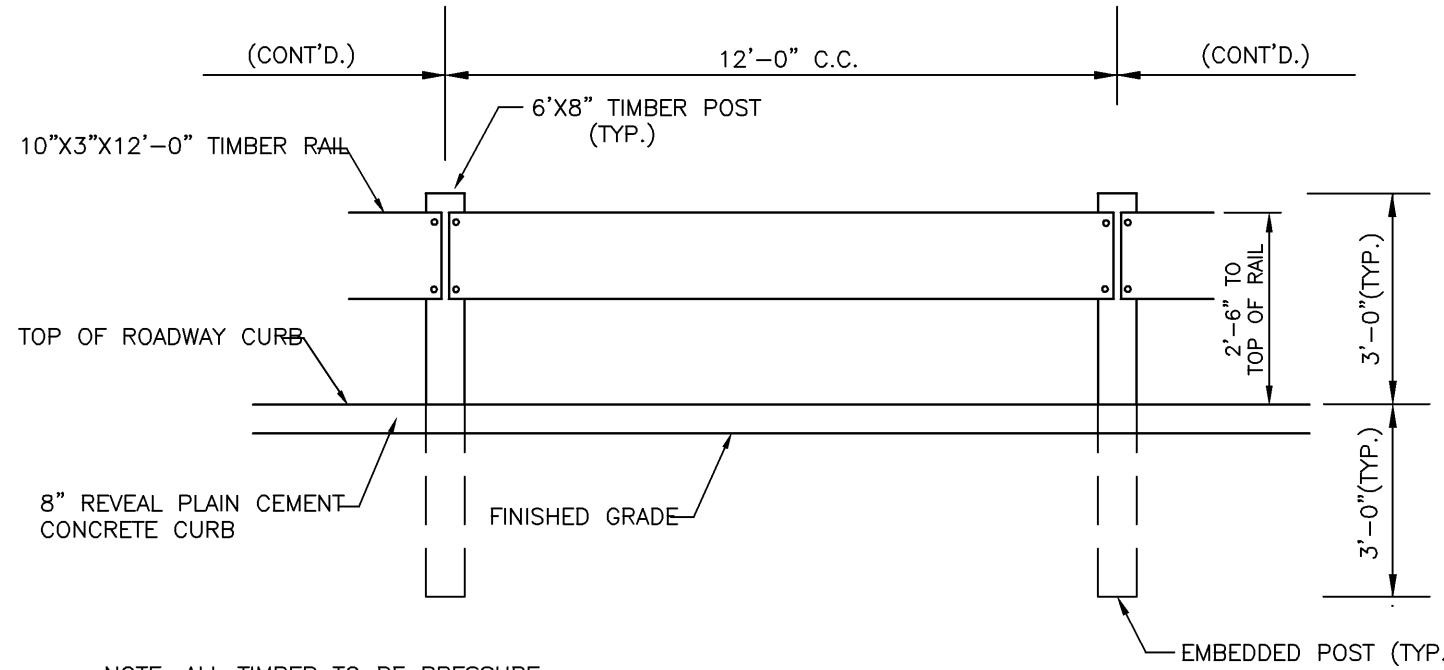


CURB RAMPS (RC-67M)

NOT TO SCALE

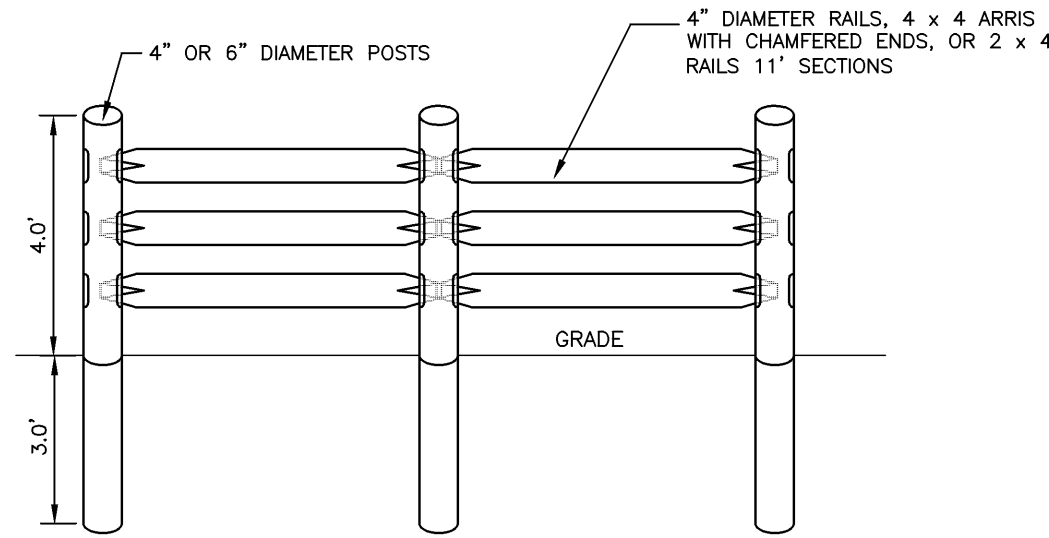
NOTES

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTIONS 550, 620, 630, AND 676.
2. PROVIDE EXPANSION JOINT MATERIAL 1/2\"/>



TYPICAL TIMBER GUIDE RAIL ELEVATION

NOT TO SCALE

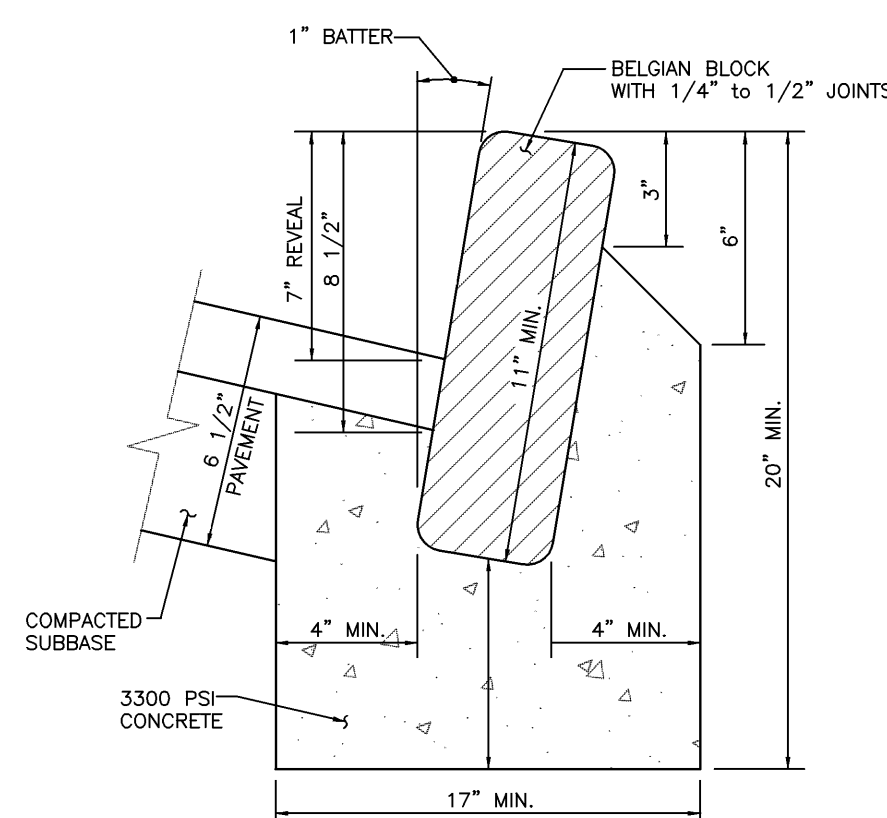


SPLIT RAIL FENCE

NOT TO SCALE

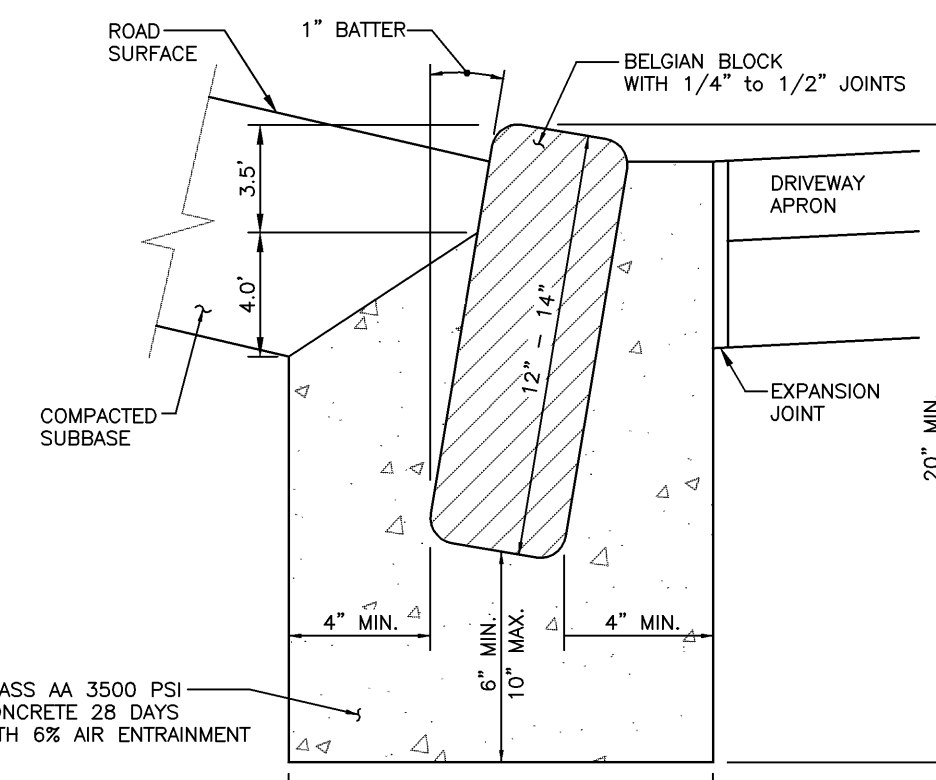
NOTES

1. UNTREATED WOOD MATERIALS SUCH AS WHITE OAK OR TAMARACK CAN LAST UP TO 10 YEARS, CYPRESS, REDWOOD, AND SASSAPARAS UP TO 15 YEARS, RED AND WHITE CEDAR UP TO 20 YEARS, AND BLACK LOCUST AND OSAGE ORANGE UP TO 25 YEARS. WEATHER AND INSECT PRESERVATIVE TREATMENTS CAN EXTEND THE USEFUL LIFE TO 25 TO 30 YEARS FOR MOST SPECIES.
2. FASTENERS SHOULD BE MADE OF NONCORROSIVE MATERIALS SUCH AS ALUMINUM ALLOYS OR STAINLESS STEEL. HIGH QUALITY DIPPED GALVANIZED STEEL IS ACCEPTABLE. METAL FLANGES, CLEATS, BOLTS, AND SCREWS ARE PREFERABLE TO COMMON NAILS.



TYPICAL BELGIAN BLOCK CURB

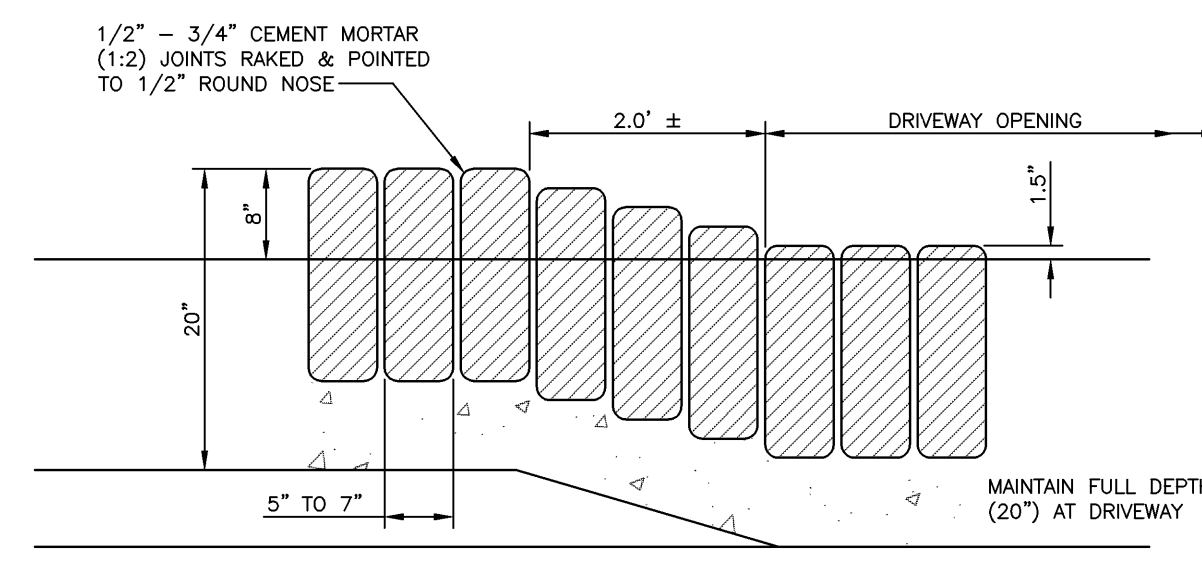
NOT TO SCALE



- SECTION -

BELGIAN BLOCK CURB (AT DRIVEWAY)

NOT TO SCALE



BELGIAN BLOCK MOUNTABLE CURB

NOT TO SCALE
FOR USE ON ALL CURBED ISLANDS

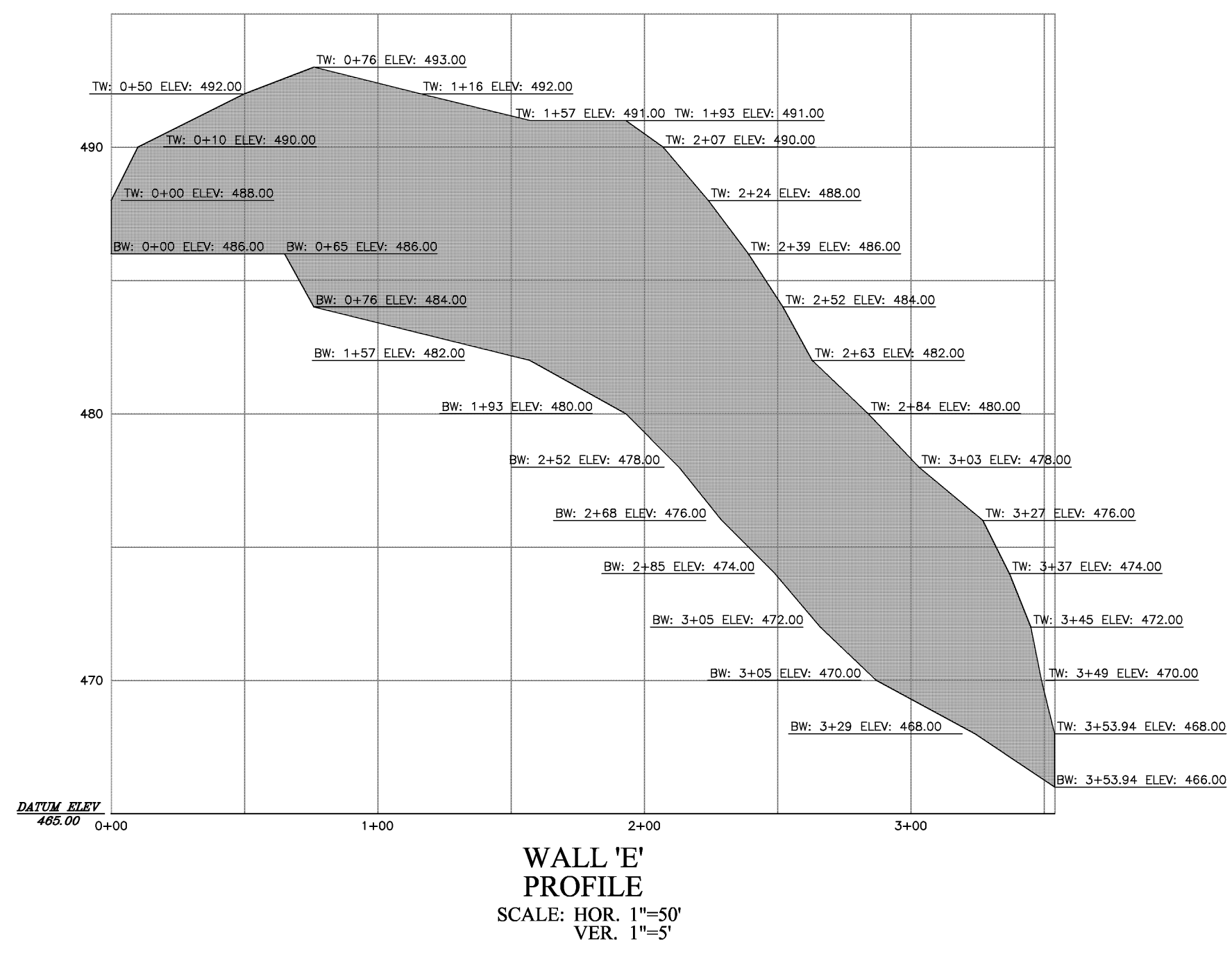
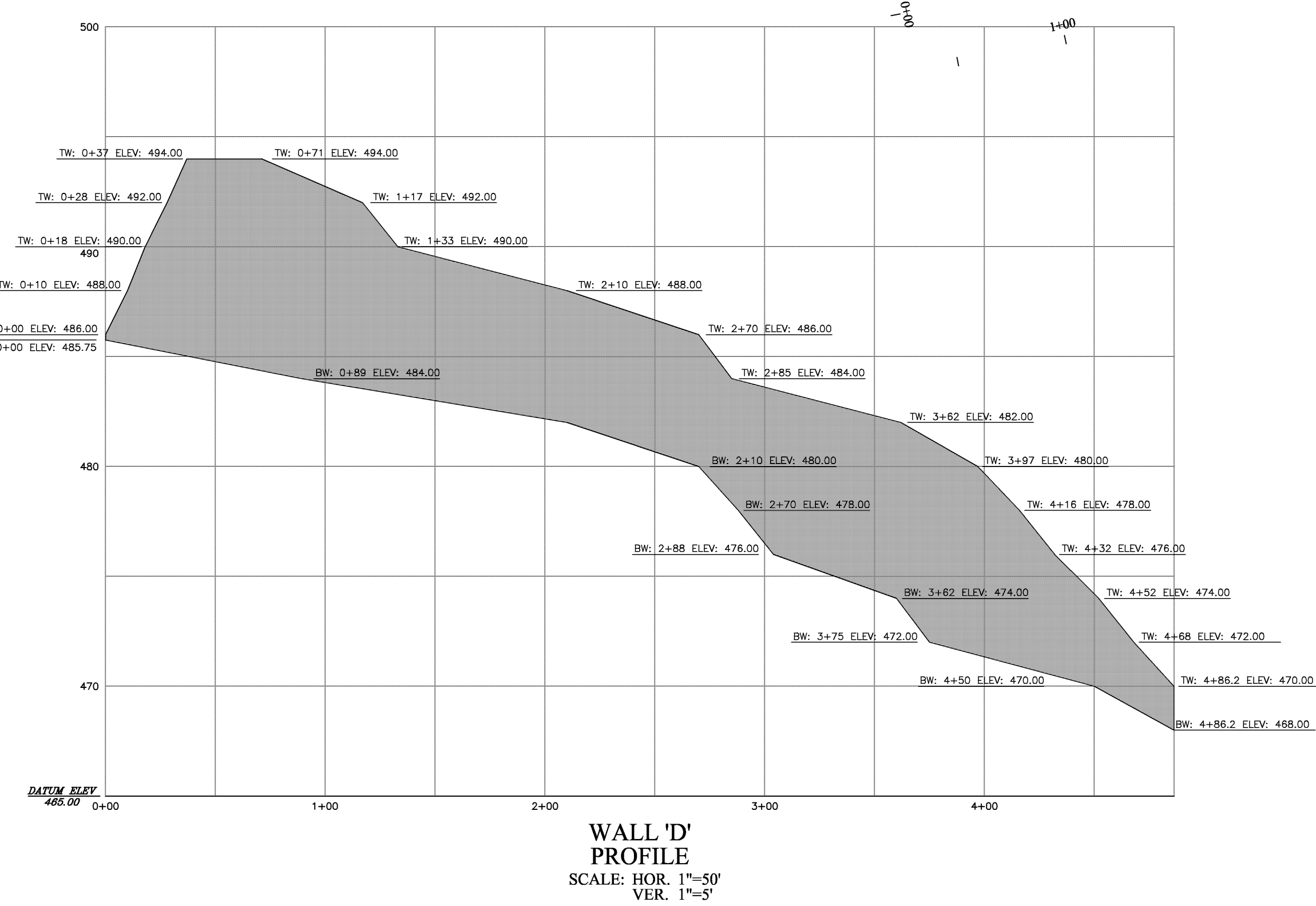
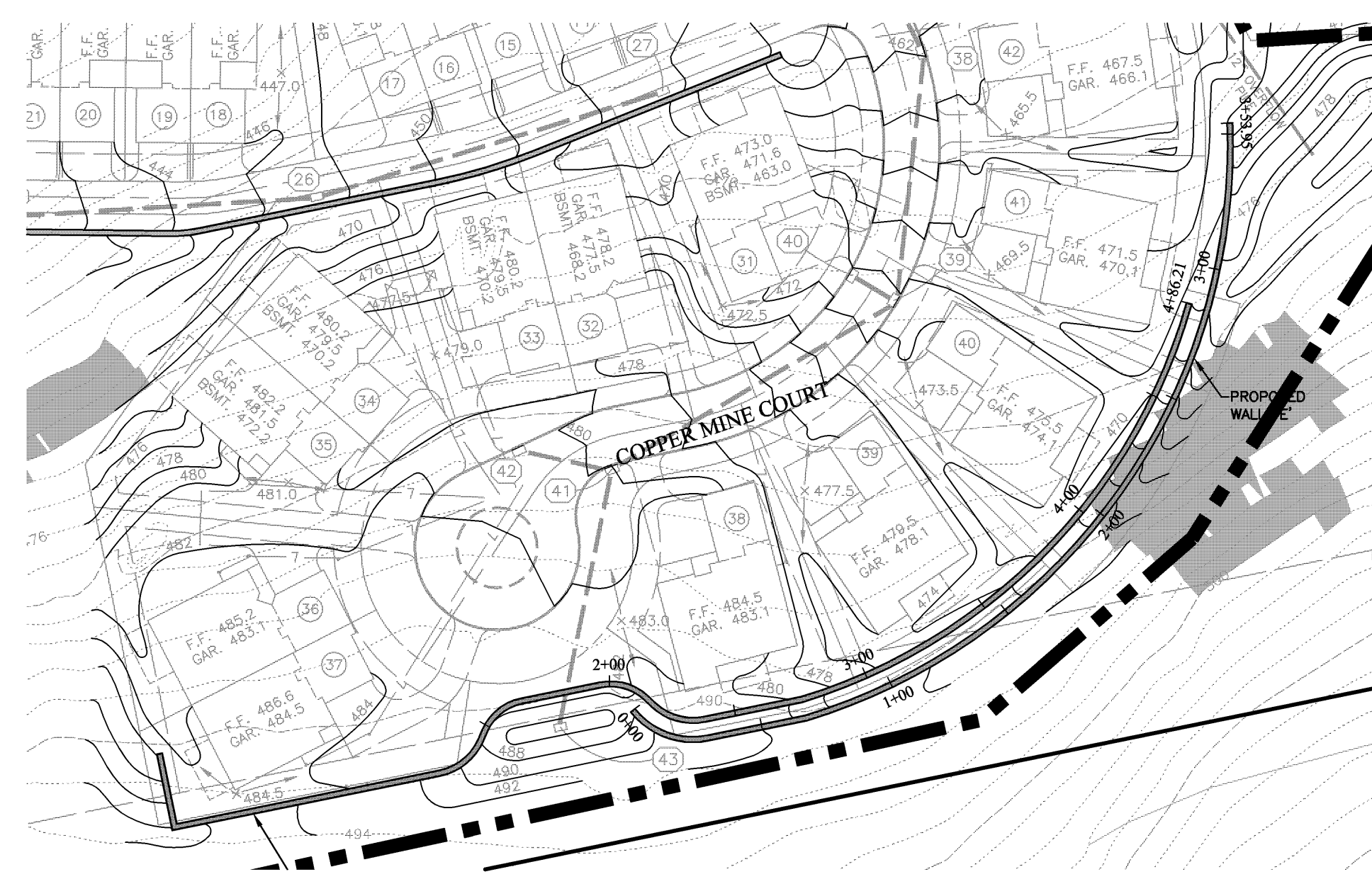
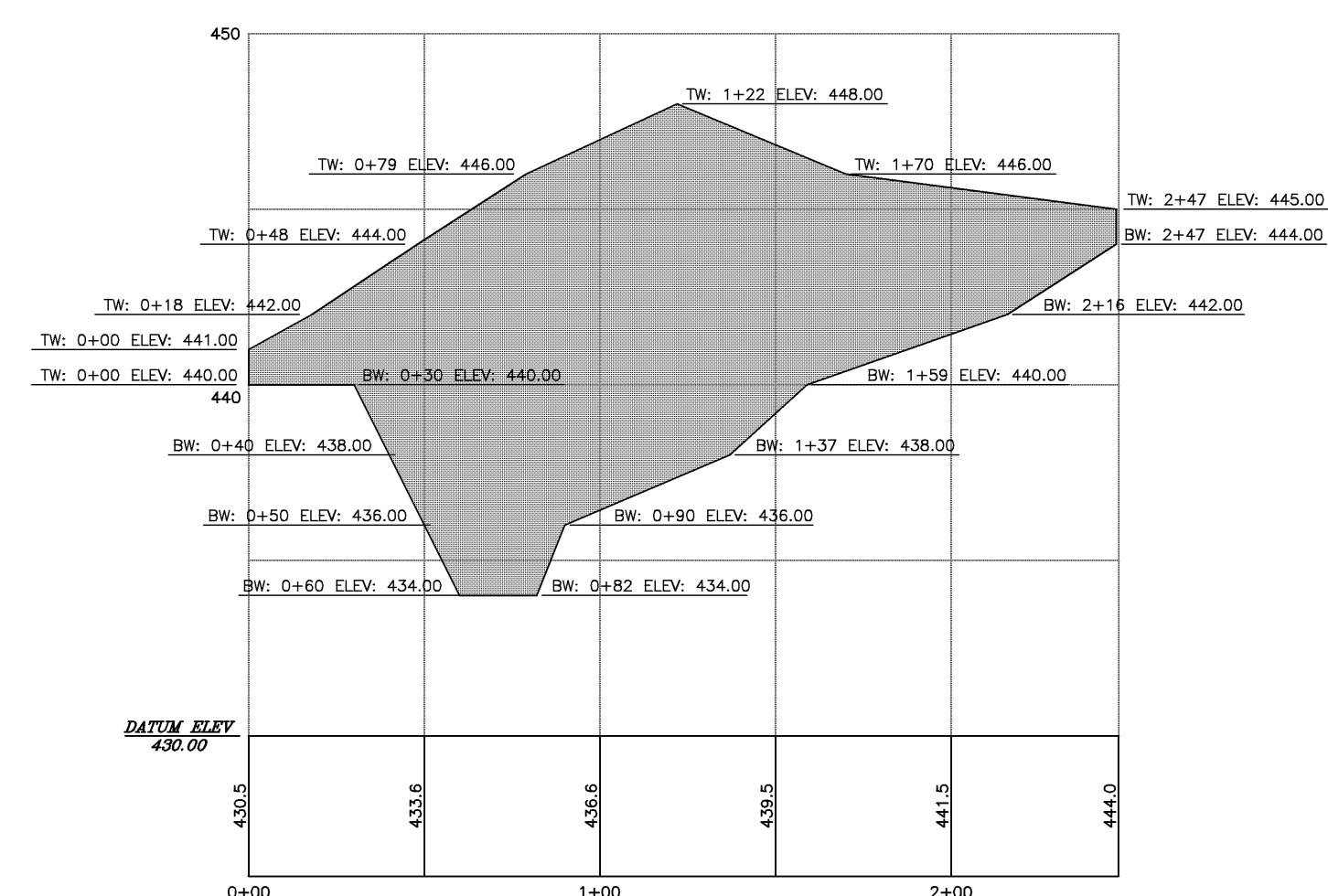
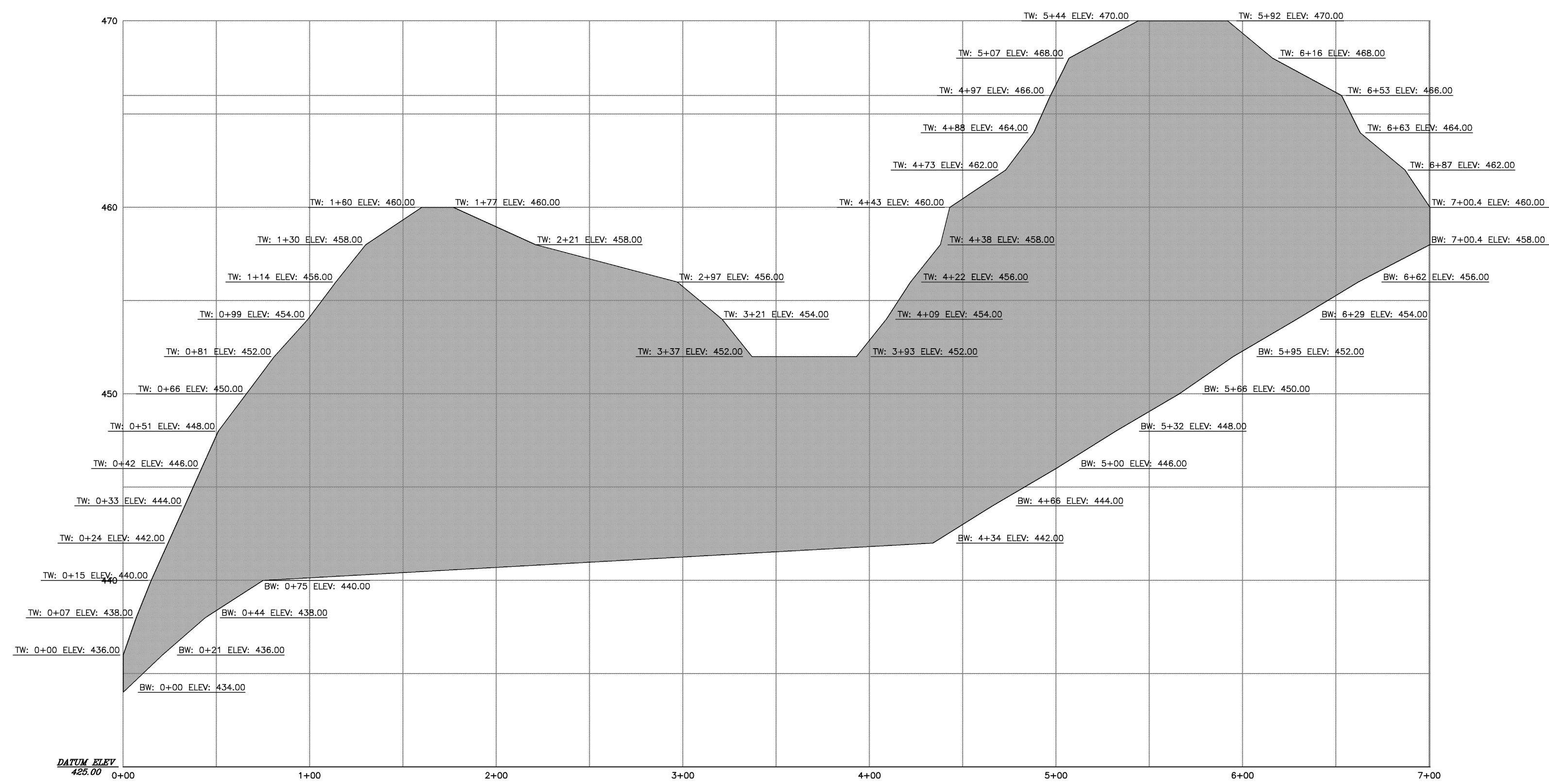
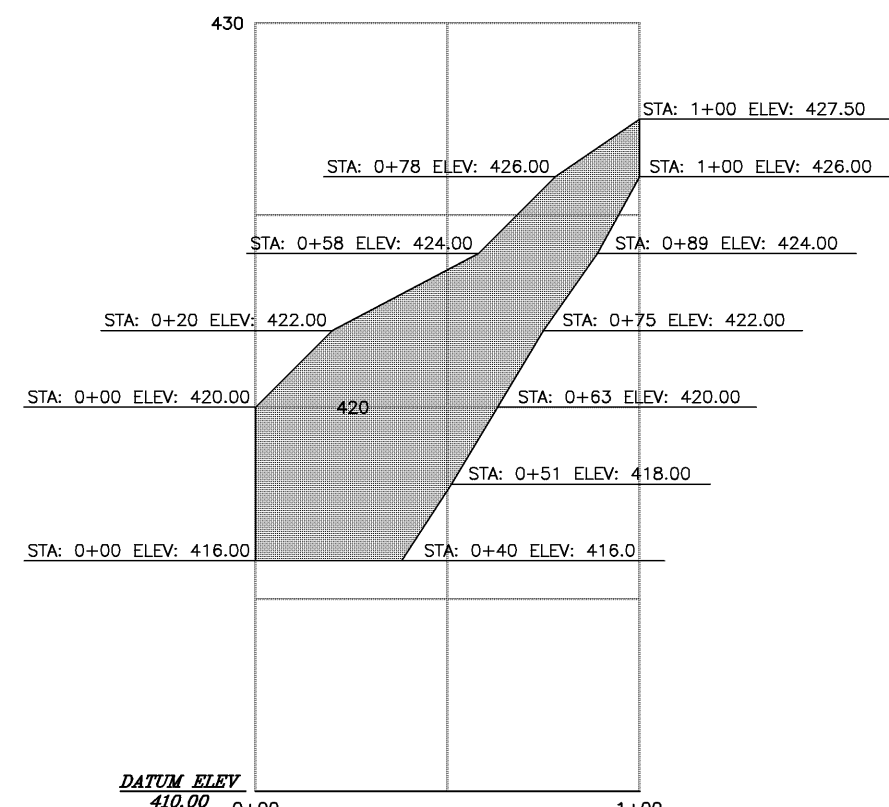


PENNSYLVANIA ONE CALL SYSTEM
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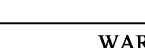
PENNSYLVANIA ACT 181 REQUIREMENTS
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
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ON THE PLAN. FOR EACH EARTH ENTERPRISES GUARANTEES THAT ALL
SUBURBAN UTILITY STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

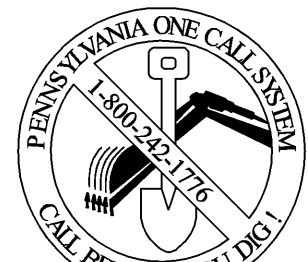
12	06/16/2006	ADD PHASING LINE
11	03/20/2008	REVISIONS PER TOWNSHIP REVIEW LETTERS DATED 03/05/2008
10	02/15/2006	REVISIONS PER TOWNSHIP REVIEW LETTER DATED 01/02/06
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Rev.	Date	Description
FINAL CONSTRUCTION DETAILS PLAN OF SUBDIVISION PHASE I GRANITE VILLAGE AT SAINT PETERS		
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA EARTH ENTERPRISES 1441 PRUZER ROAD PLIGHTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8900 Project: 10001 Date: 09/05/2006 Scale: 1" = 50' Drawn: TAH Checked: CAD 11C OF 36		



12	06/16/2008	ADD PHASING LINE
11	03/07/2008	REVISIONS PER TOWNSHIP REVISION LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVISION LETTER DATED 01/10/2008
9	1/11/2007	FINAL CLOSING FOR FINAL PLAN SUBMISSION
8	10/12/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/13/2007	ADDED SPOIL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER RUC CDD LETTER DATED 02/26/2007
4	01/30/2007	REVISION PER CDD LETTER DATED 01/23/2007
3	11/06/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
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Rev.		Description

FINAL CONSTRUCTION DETAILS		PLAN OF SUBDIVISION PHASE 1 GRANITE VILLAGE AT SAINT PETERS											
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA													
 EARTH ENTERPRISES		EARTH ENTERPRISES 141 PRIZER ROAD PUGHSTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8980 <table><tr><td>Project:</td><td>10001</td></tr><tr><td>Date:</td><td>09/05/2006</td></tr><tr><td>Scale:</td><td>1" = 50'</td></tr><tr><td>Drawn:</td><td>TAH</td></tr><tr><td>Checked:</td><td>CAD</td></tr></table>		Project:	10001	Date:	09/05/2006	Scale:	1" = 50'	Drawn:	TAH	Checked:	CAD
Project:	10001												
Date:	09/05/2006												
Scale:	1" = 50'												
Drawn:	TAH												
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		11											
		OF											



PENNSYLVANIA ONE CALL SYSTEM
PA. ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
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PENNSYLVANIA ACT 187 REQUIREMENTS:
EARTH ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF THE
LOCATIONS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON THE PLANS, NOR DOES EARTH ENTERPRISES GUARANTEE THAT ALL
SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL
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UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

PLANS PREPARED BY:

1345 Hares Hill Road,
Phoenixville, PA 19460
(P) 610.935.9200
(F) 610.935.9201



DETAILED ENGINEERED SHOP DRAWINGS MUST BE
SUBMITTED TO THE TOWNSHIP ENGINEER PRIOR TO
THE CONSTRUCTION OF ANY RETAINING WALL.

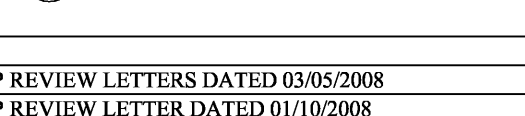
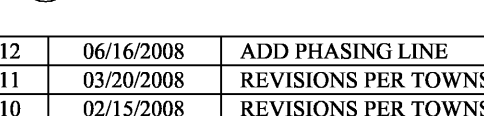
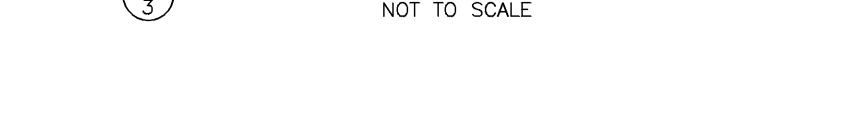
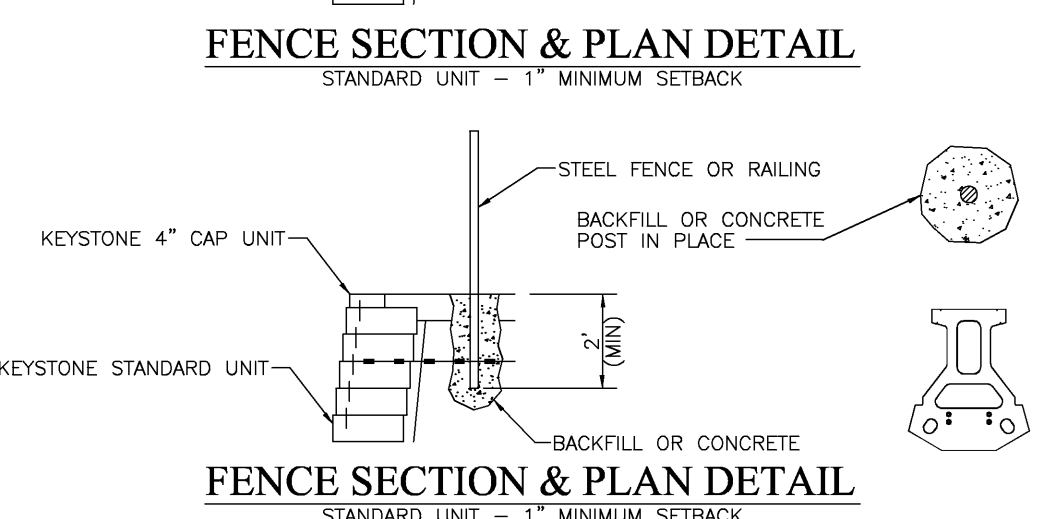
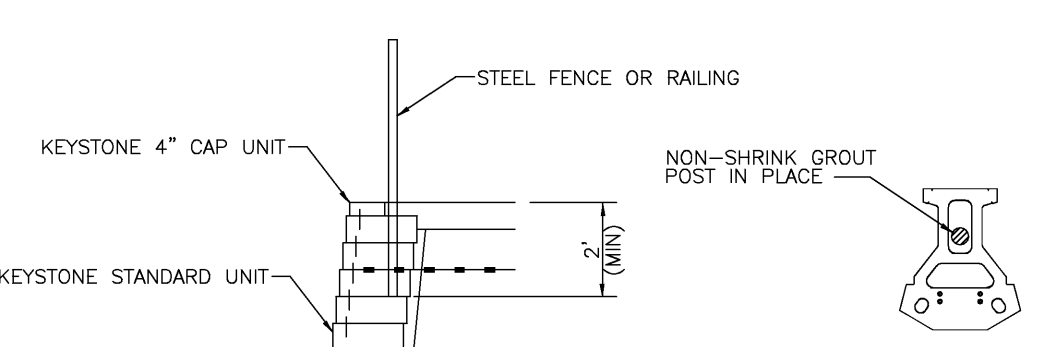
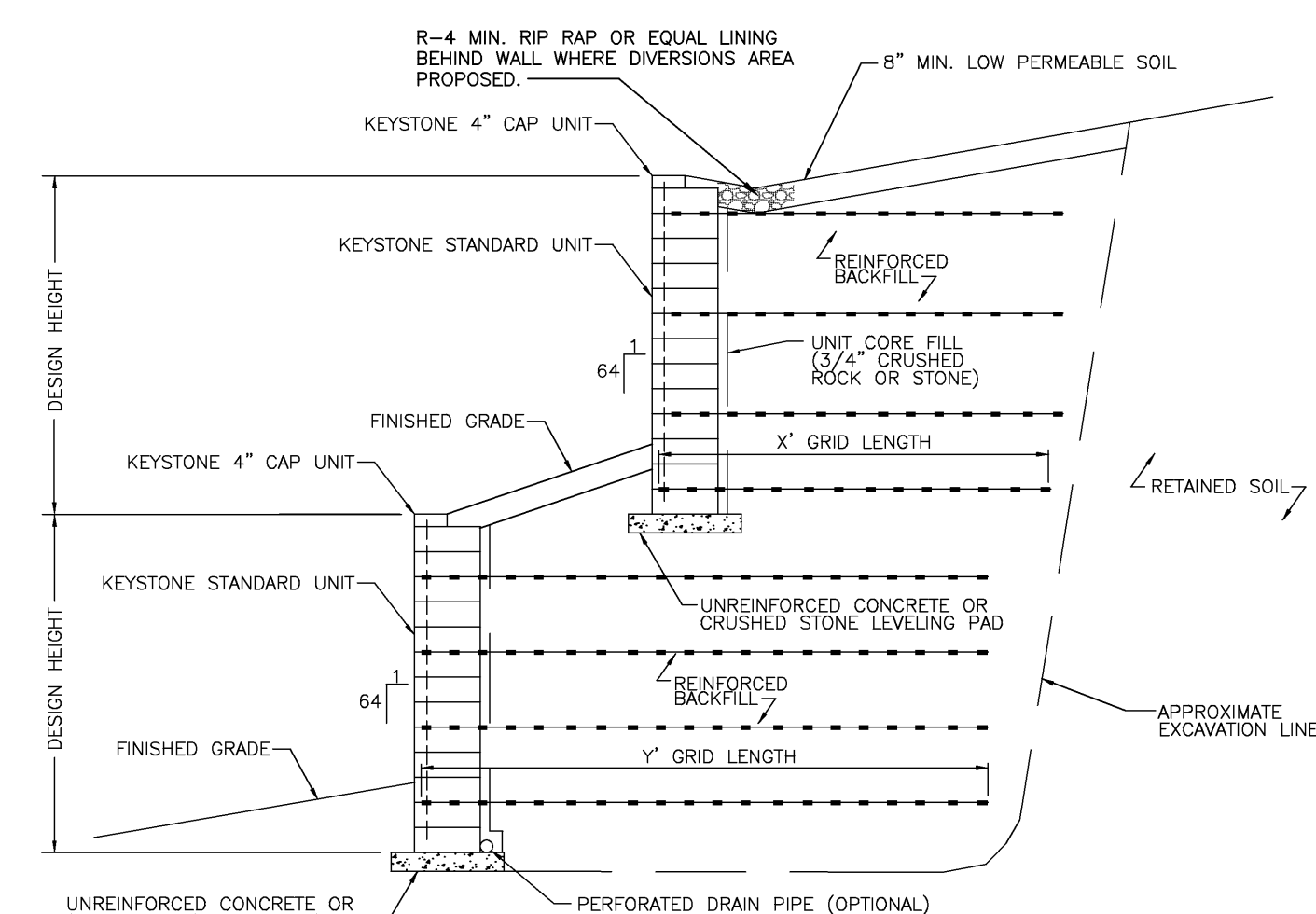
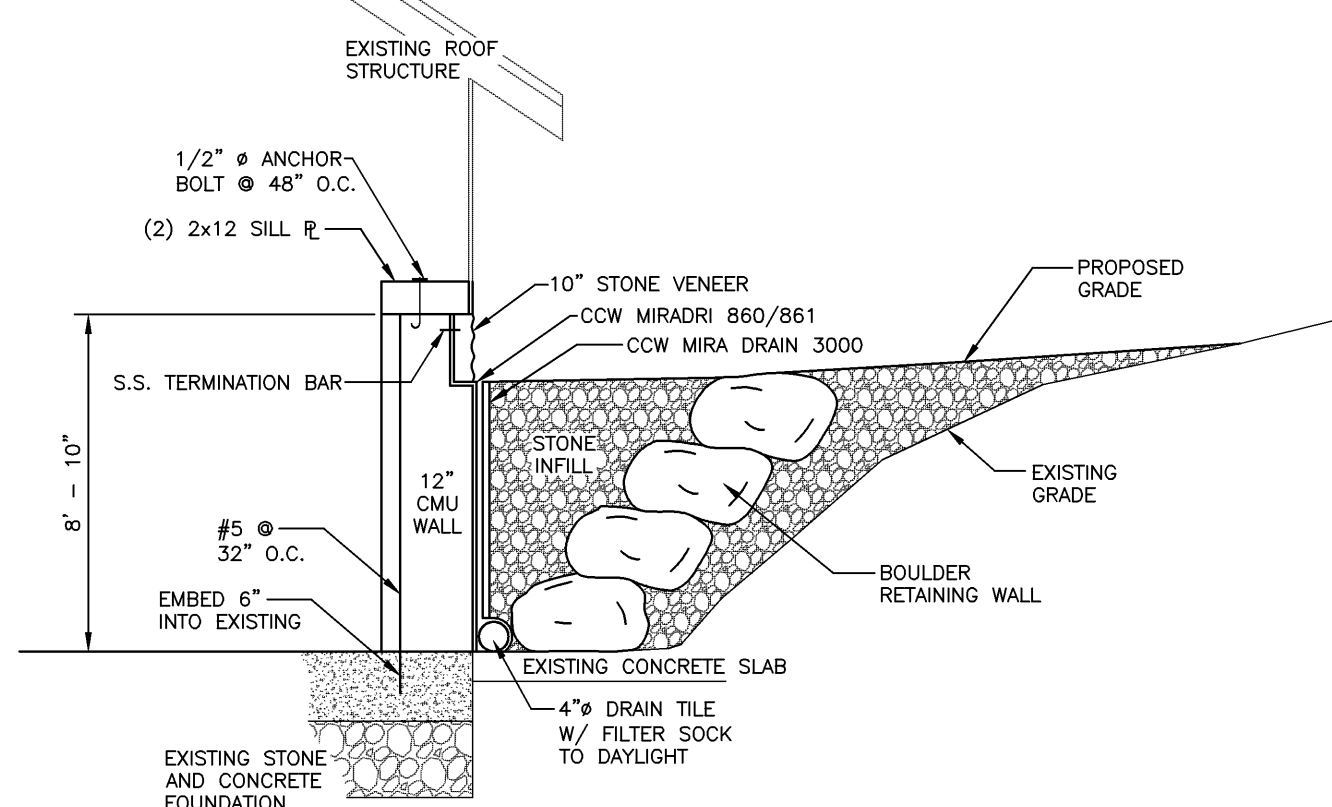
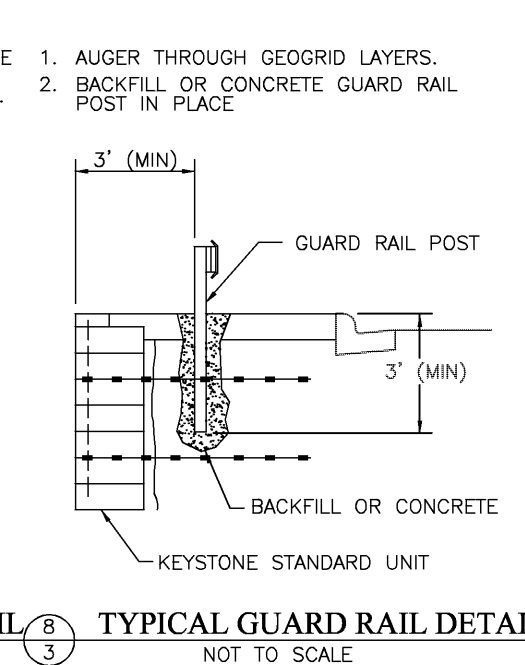
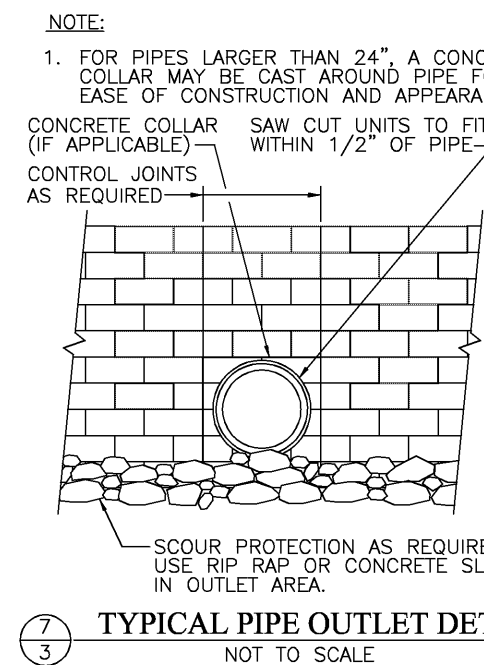
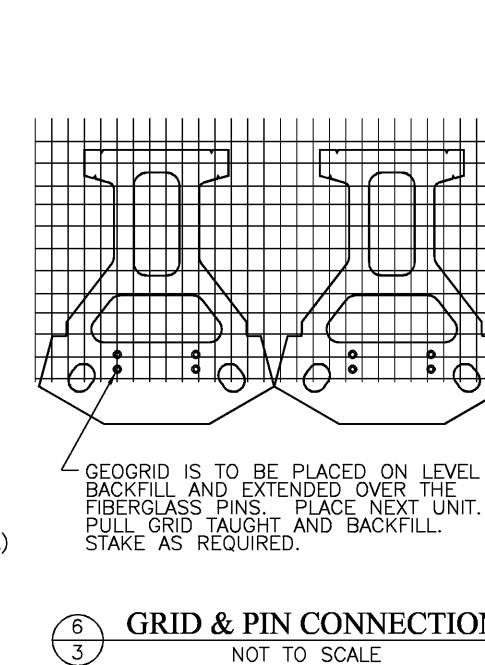
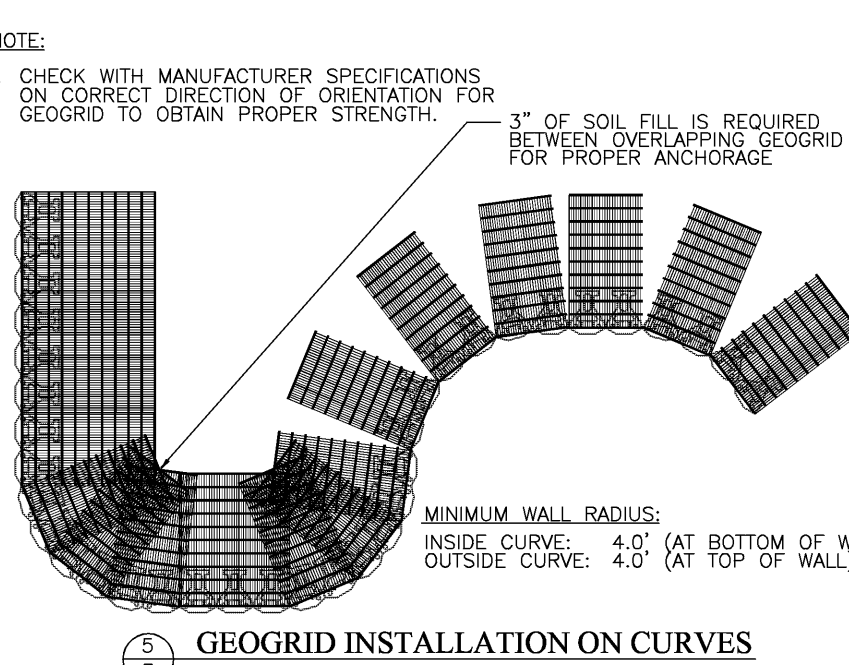
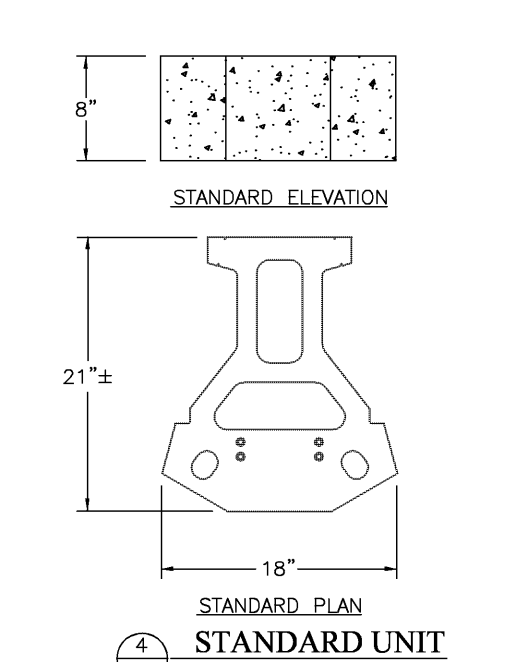
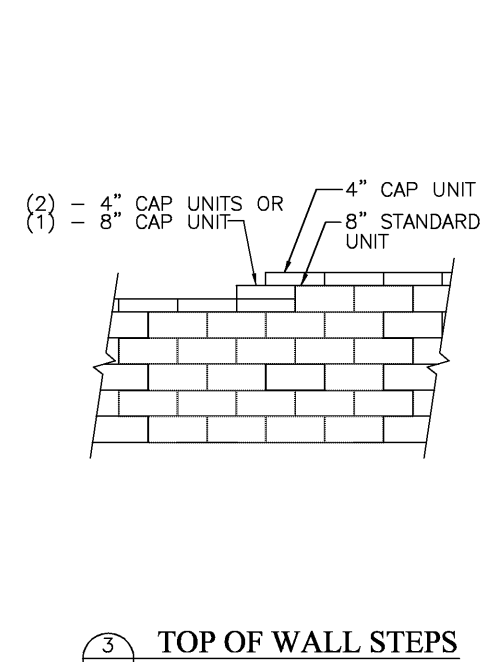
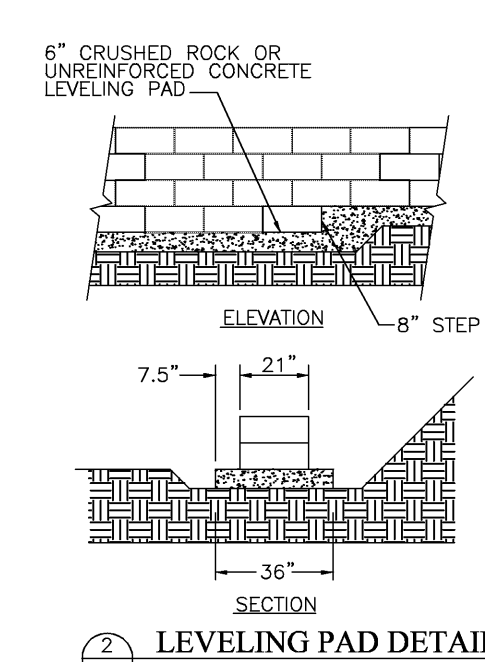
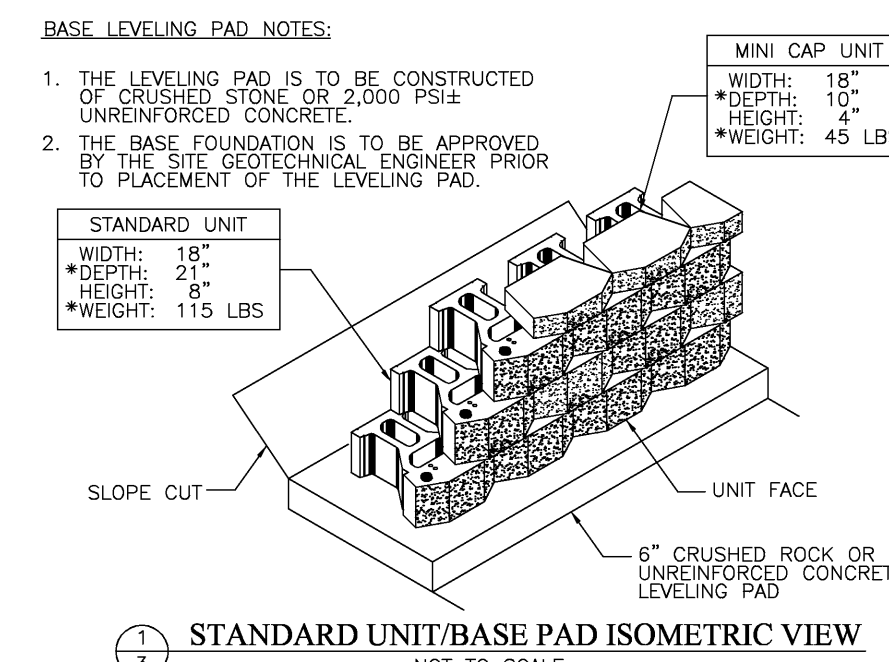
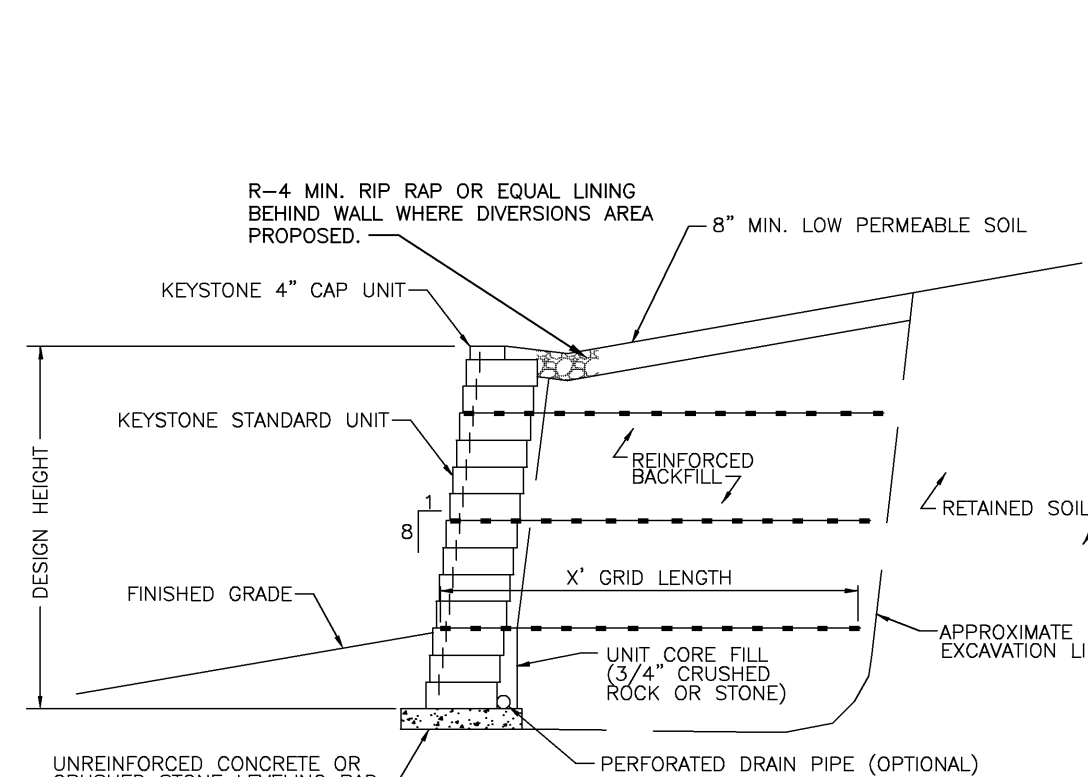
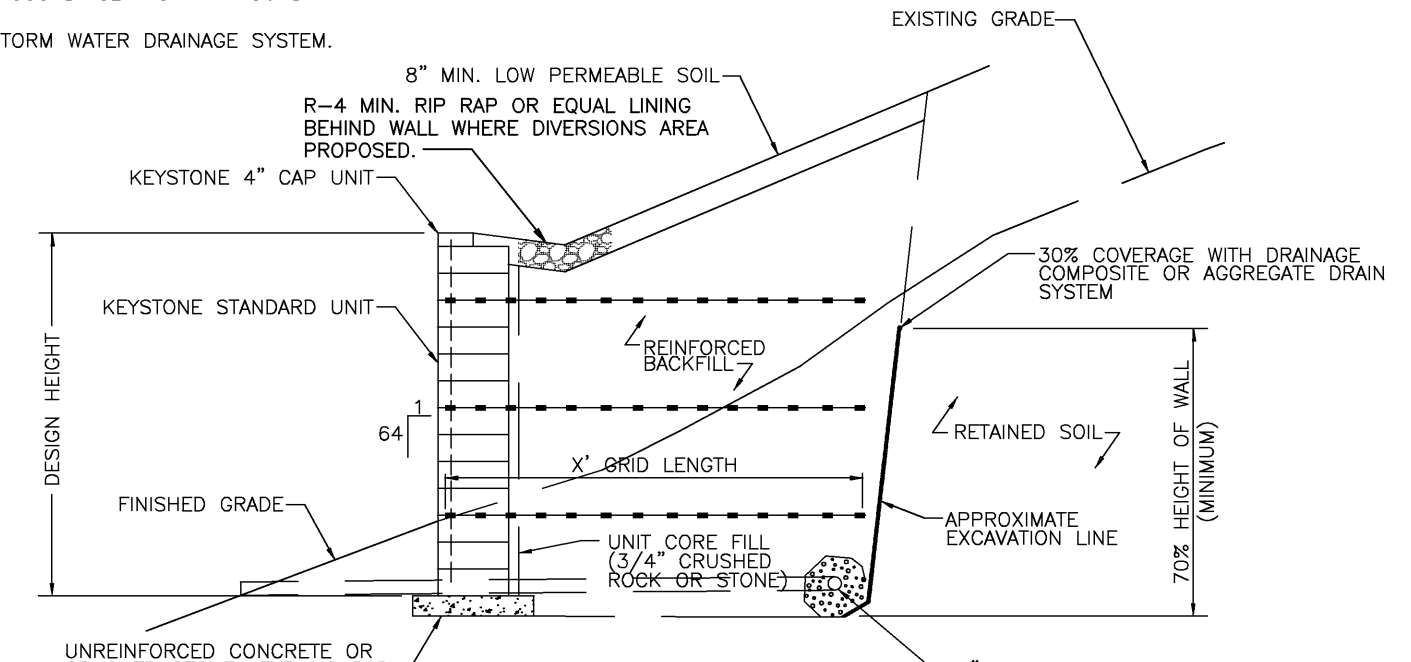
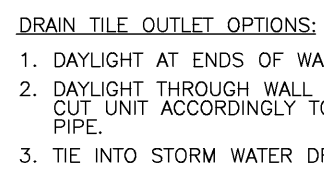
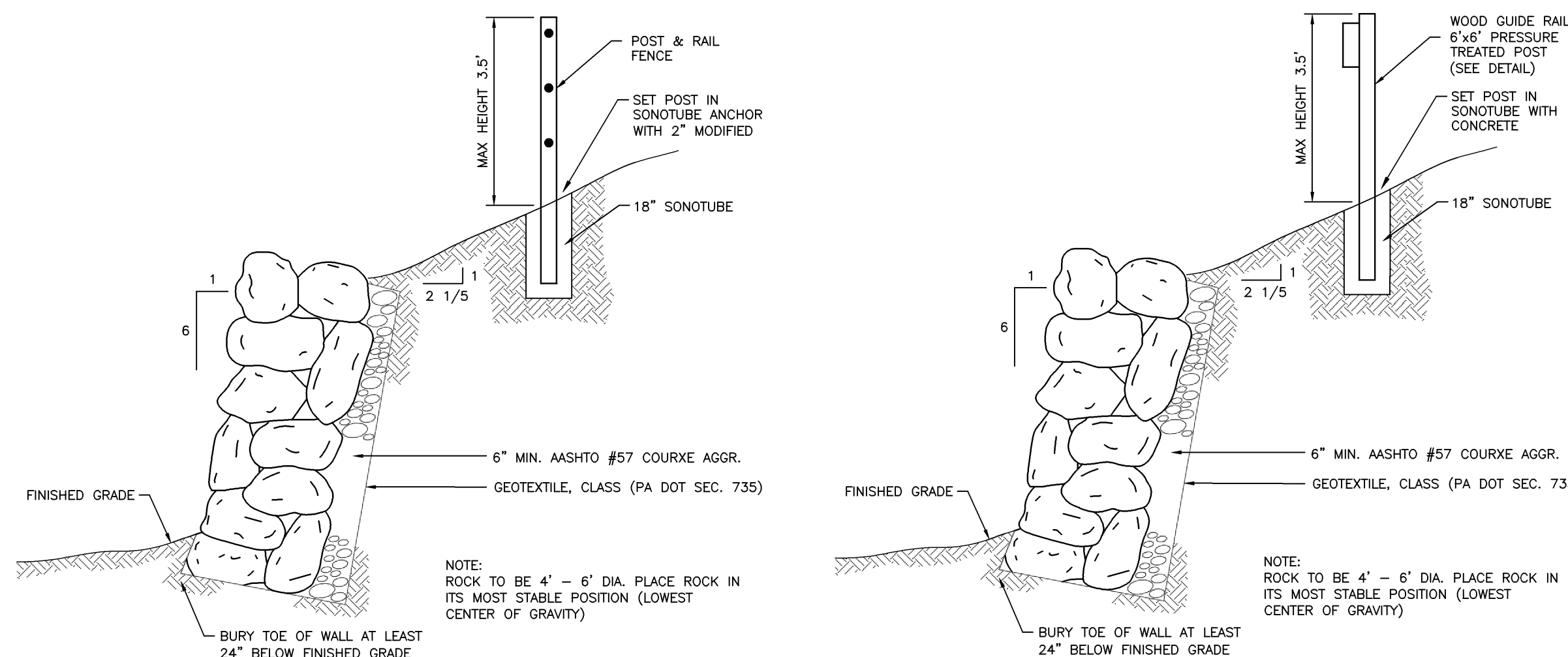
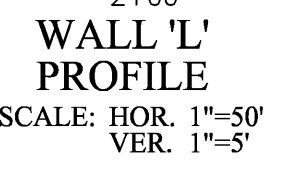
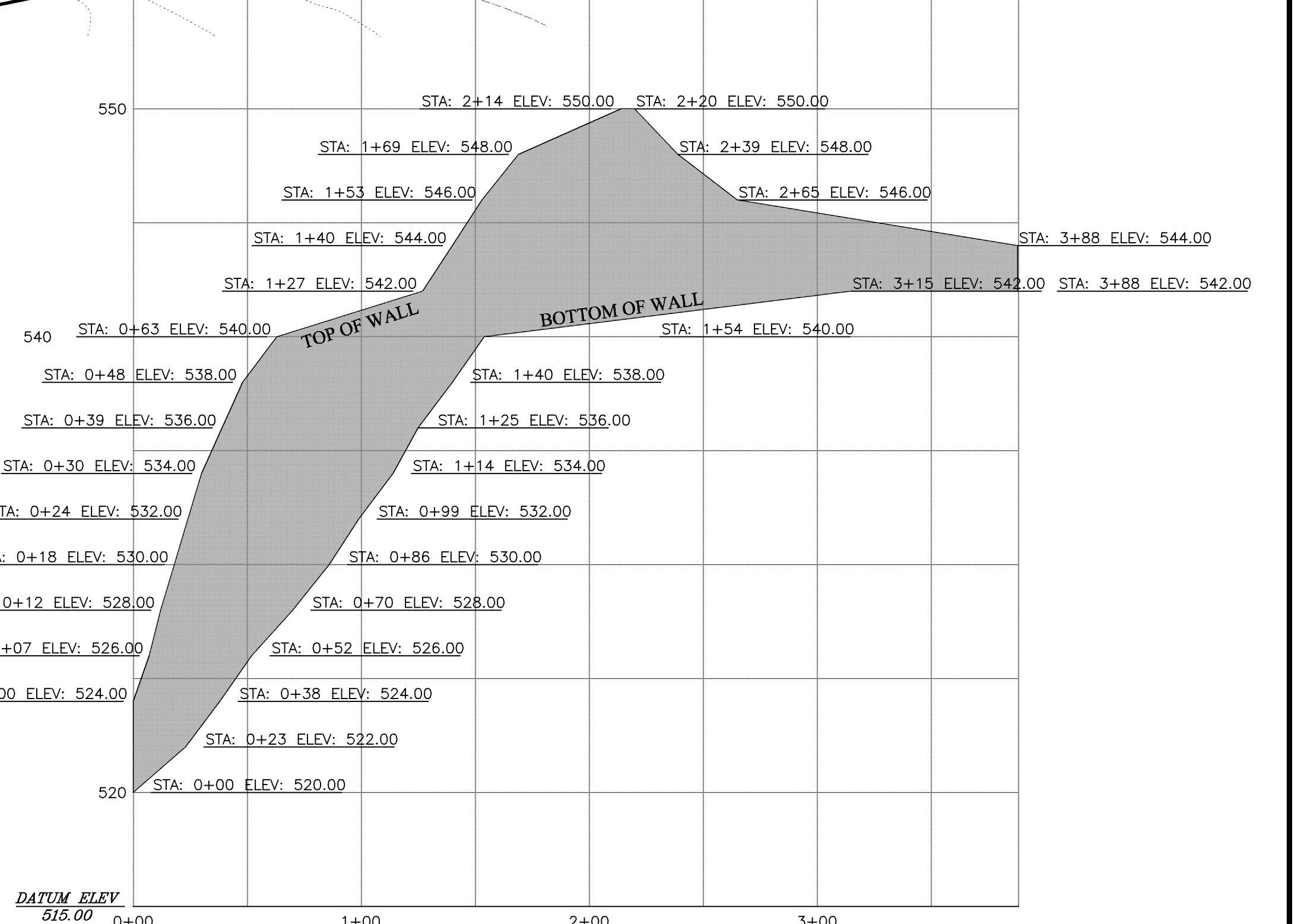
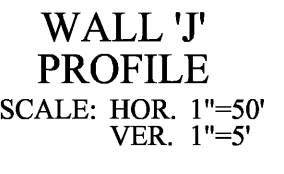
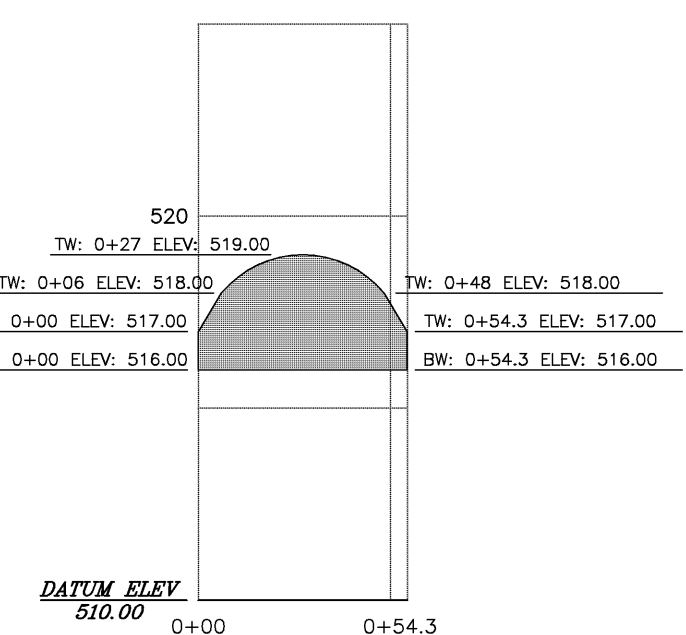
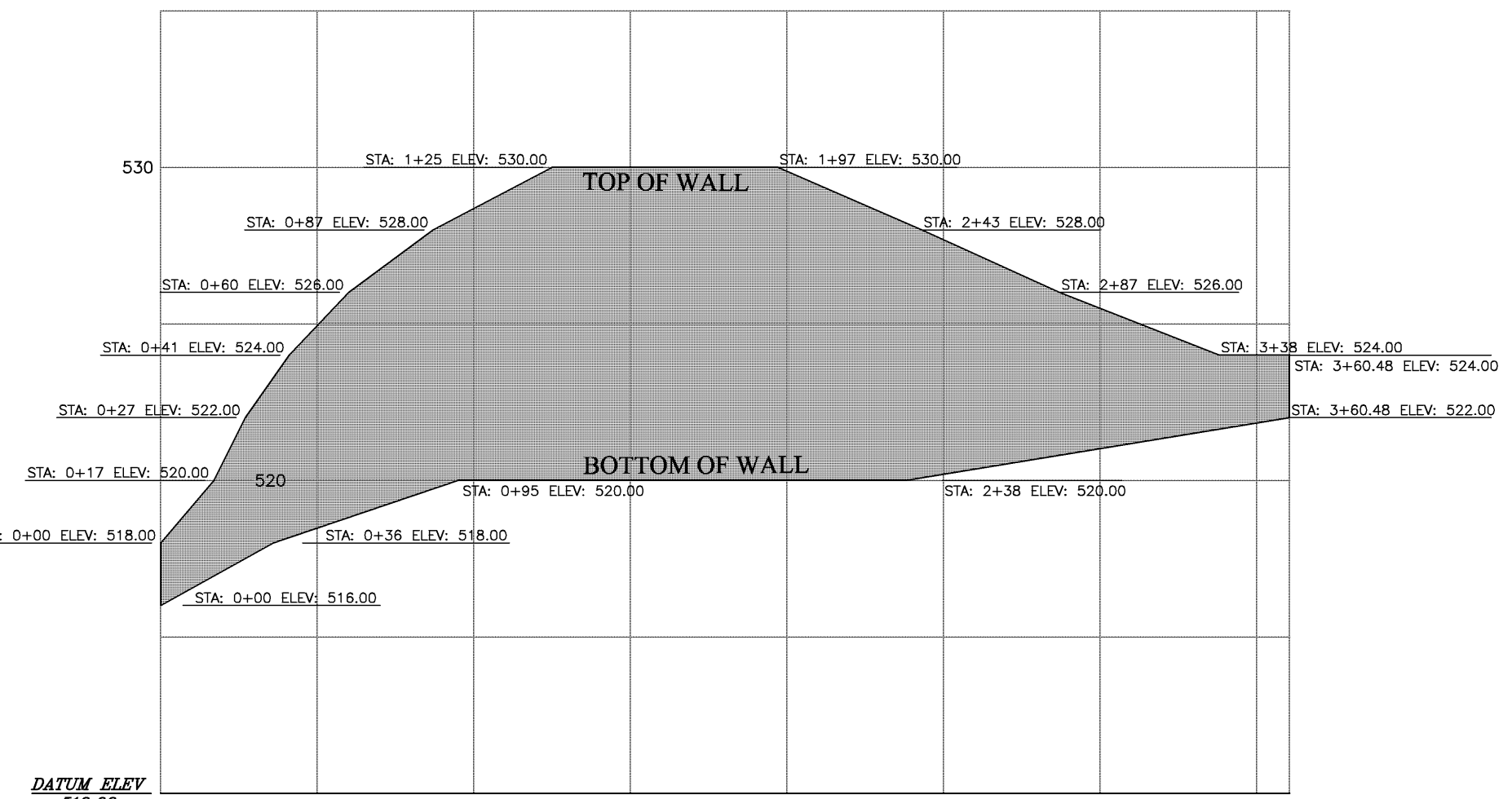
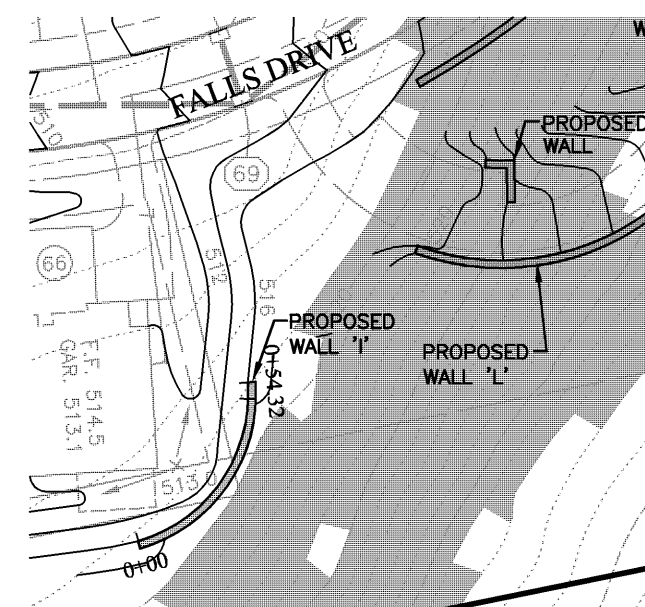
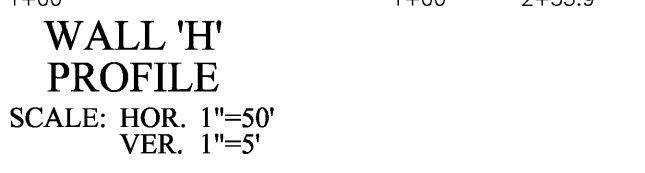
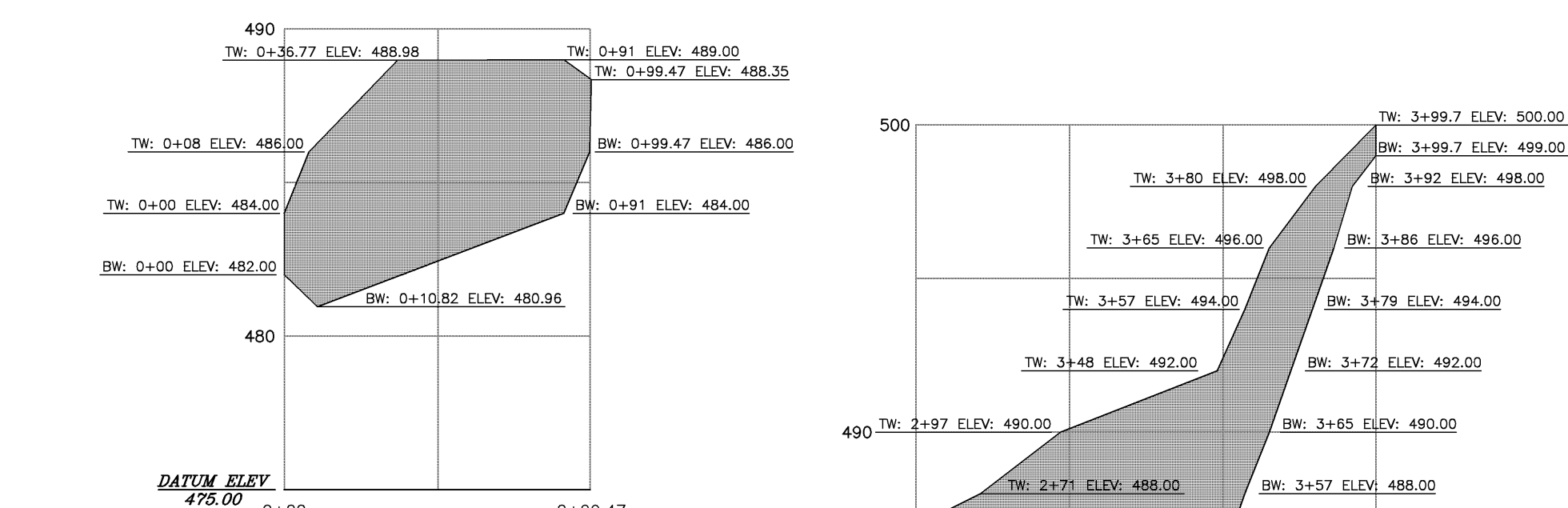
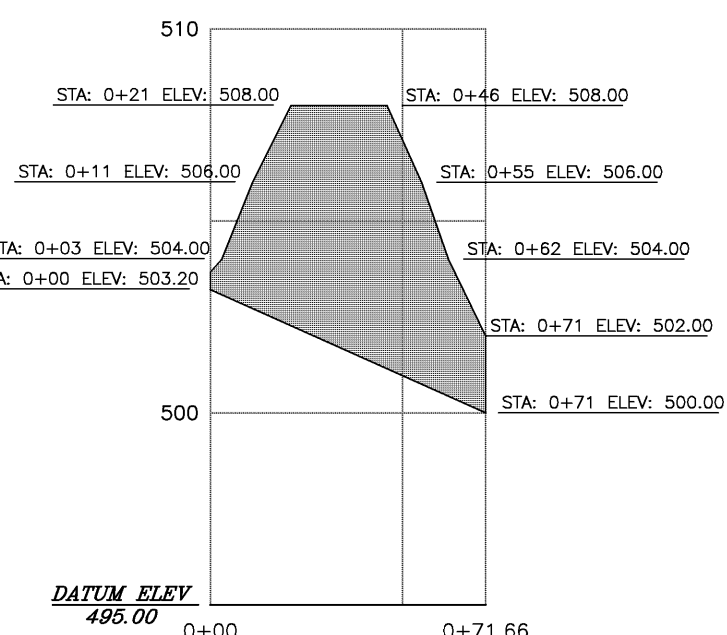
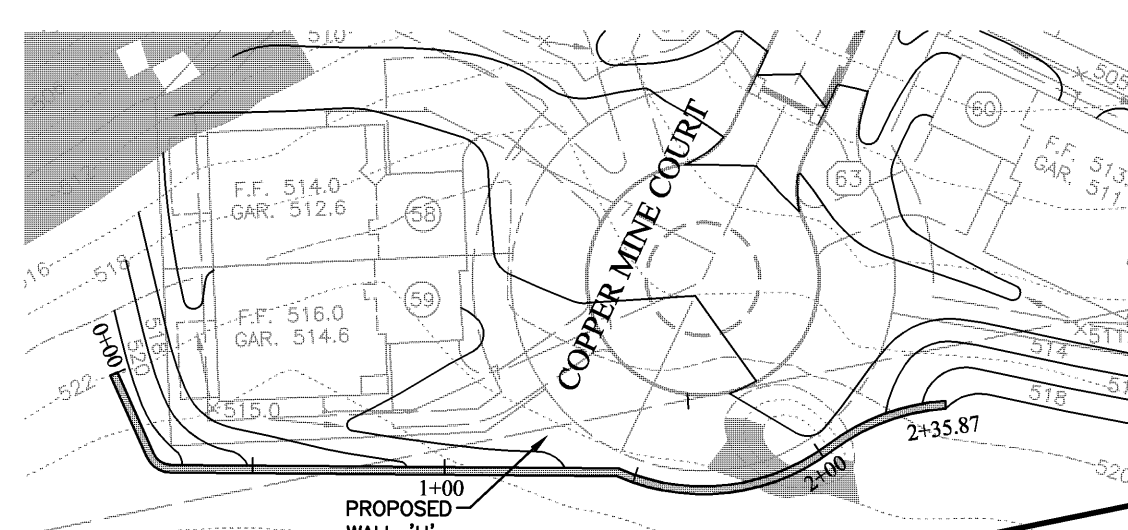
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA



EARTH ENTERPRISES
1441 PRIZER ROAD
PUGHTOWN, PA 19465
Phone: (610) 469-8800
Fax: (610) 469-8999

Project:
Date:
Scale:
Drawn:

III



PENNSYLVANIA ONE CALL SYSTEM
PA. ACT 181 REQUIRES
THREE WORKING DAYS NOTICE
SERIAL NUMBERS:
2425321

PENNSYLVANIA ACT 187 REQUIREMENTS:
ENTERPRISES DOES NOT GUARANTEE THE ACCURACY OF
PLANS FOR EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN
ON PLANS, NOR DOES EARTH ENTERPRISES GUARANTEE THAT
IF SURFACE STRUCTURES ARE SHOWN, THE CONTRACTOR SHALL
VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND
UTILITIES AND STRUCTURES BEFORE THE START OF WORK.

PLANS PREPARED BY

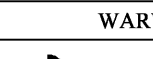
Earth
Design Group

WALL 'M' DETAIL

NOT TO SCALE

DETAILED ENGINEERED SHOP DRAWINGS MUST BE SUBMITTED TO THE TOWNSHIP ENGINEER PRIOR TO THE CONSTRUCTION OF ANY RETAINING WALL.

12	06/16/2008	ADD PHASING LINE
11	03/27/2008	REVISIONS PER TOWNSHIP REVISION LETTERS DATED 03/05/2008
10	02/15/2008	REVISIONS PER TOWNSHIP REVISION LETTER DATED 01/10/2008
9	1/11/2007	FINAL CLOSING FOR FINAL PLAN SUBMISSION
8	10/12/2007	FINAL SUBMISSION, FIELD CHANGES, TOWNSHIP COMMENTS
7	07/13/2007	ADDED SPOIL STOCKPILE TO PARKING AREA ON WEST SIDE OF ST. PETERS ROAD
6	06/25/2007	FINAL REVISIONS
5	03/05/2007	REVISION PER RUC CDD LETTER DATED 02/26/2007
4	01/30/2007	REVISION PER CDD LETTER DATED 01/23/2007
3	11/06/2006	REVISION PER TOWNSHIP LETTER DATED 11/9/2006
2	10/06/2006	NPDES PHASE II SUBMISSION
1	09/05/2006	REV PER TWP. ENGR. LTR. DATED 9/5/2006 & TWP. PLANNER LTR. DATED 9/5/2006
Rev.		Description

FINAL CONSTRUCTION DETAILS		PLAN OF SUBDIVISION PHASE 1 GRANITE VILLAGE AT SAINT PETERS	
WARWICK TOWNSHIP • CHESTER COUNTY • PENNSYLVANIA			
	EARTH ENTERPRISES 141 PRIZER ROAD PUGHSTOWN, PA 19465 Phone: (610) 469-8800 Fax: (610) 469-8980		Project: 10001 Date: 09/05/2006 Scale: 1" = 30' Drawn: TAH Checked: CAD
			11E
			OF

11E