

FORGE ESTATES PHASE II

CHURCH STREET, BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

SUBDIVISION/LAND DEVELOPMENT PLAN

OWNER/APPLICANT:

FORGE ESTATES
100 EAST DUNN AVENUE
OLD FORGE, PA 18518

CONTACT NAME:
EDWARD CASEY
PHONE NUMBER:
(570) 562-3548

UTILITY CONTACTS

PPL ELECTRIC UTILITIES
827 HAUSMAN ROAD
ALLENTOWN, PA 18104
ATTN.: MR. MICHAEL R. KOSLAP
888-220-9991

UGI PENN. NATURAL GAS
150 POWER BLVD.
ARCHBALD, PA 18403
ATTN.: MR. JOSEPH O'CONNER
(570) 876-7011

PENNSYLVANIA AMERICAN WATER CO.
2699 STAFFORD AVENUE
SCRANTON, PA 18505
ATTN.: MR. ANTHONY GANGEMI
(570) 969-7501, EXT. 225

LOWER LACKAWANNA VALLEY SANITARY AUTHORITY
COXTON ROAD
P.O. BOX 67
DURYEA, PA 18642-0067
ATTN.: MR. TOM MCDERMOTT
(570) 655-1655

VERIZON PENNSYLVANIA, INC.
121 ADAMS AVENUE, 5TH FLOOR
SCRANTON, PA 18503
ATTN.: JAMES GRAFF
(570) 348-5643

COMCAST CABLE COMPANY
1 COMCAST WAY
DURYEA, PA 18642
ATTN.: MR. ELMER DAY
(570) 451-4300

COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PER ACT 187. CALL 1-800-242-1776.

OWNERS' CERTIFICATION:

It Is Hereby Certified That The Undersigned Have Legal Or Equitable Title To The Lands Shown Hereon And Consent To The Subdivision And Land Development In The Manner As Shown On This Plan.

Sworn And Subscribed Before Me
This Day Of , 2010

Notary

ZONING AND SUBDIVISION/ LAND DEVELOPMENT DATA

ORDINANCE ADOPTED NOVEMBER 17, 1992

USE: RESIDENTIAL SUBDIVISION

CURRENT ZONING: R-1 (RESIDENTIAL LOW-DENSITY DISTRICT)=PERMITTED USE

LOT REGULATIONS R-1

MIN. LOT AREA: 9,000 S.F.
MIN. LOT DEPTH: 100'
MIN. FRONT BUILDING SETBACK: 25'
MIN. SIDE BUILDING SETBACK: 10'
MIN. REAR BUILDING SETBACK: 30'
MIN. LOT FRONTAGE: 80'
MAX. BUILDING HEIGHT: 35'
MAX. NO. OF BUILDING STORIES: 2-1/2
MAX. IMPERVIOUS COVER: 35%

REGULATORY AND REVIEW AGENCIES

OLD FORGE PLANNING COMMISSION/BOROUGH COUNCIL
314 SOUTH MAIN STREET
OLD FORGE, PA 18518
(570) 457-8852

LACKAWANNA COUNTY REGIONAL PLANNING COMMISSION
507 LINDEN STREET
SCRANTON ELECTRIC BUILDING, SUITE 501
SCRANTON, PA 18501
(570) 963-6826

LACKAWANNA COUNTY CONSERVATION DISTRICT
1300 OLD PLANK ROAD
MAYFIELD, PA 18433
(570) 281-9495

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE
2 PUBLIC SQUARE
WILKES BARRE, PA 18711
(570) 826-2511

FORGE ESTATES SHALL UPON COMPLETION, INSPECTION AND APPROVAL OF THE PROPOSED ROADWAY, CARTWAY, RIGHT-OF-WAY, DRAINAGE IMPROVEMENTS, STORM WATER COLLECTION SYSTEM, INLETS, PIPES AND DETENTION BASIN, DEDICATE TO THE BOROUGH OF OLD FORGE SAID RIGHT-OF-WAY AND DRAINAGE EASEMENTS WITH IMPROVEMENTS THEREON. ALL PROPOSED CROSS-LOT AND REAR LOT DRAINAGE SWALES ALONG WITH ASSOCIATED HEADWALLS WILL NOT BE OFFERED FOR DEDICATION TO OLD FORGE BOROUGH.

- ACCORDING TO THE WETLAND DELINEATION REPORT (JAN. 2009) BY KINGFISHER GROUP, LLC, (301 NORTHERN BLVD. CLARKS SUMMIT, PA 18411) THE SITE DOES NOT CONTAIN ANY WETLANDS.
- ACCORDING TO FEMA FLOODMAP # 4205350005B (BOROUGH OF OLD FORGE, EFFECTIVE DATE: OCTOBER 16, 1979) THIS SITE IS NOT WITHIN THE 100 YEAR STORM FLOODPLAIN.

APPROVED BY: THE BOROUGH OF OLD FORGE

PRELIMINARY PLAN APPROVAL

At Her
Council President
Borough of Old Forge
Date 1/25/10
M. J. Osburne
Secretary
Borough of Old Forge
Date 1/25/10

FINAL PLAN APPROVAL

Council President
Borough of Old Forge
Date
Secretary
Borough of Old Forge
Date

SITE DATA

LOT AREA

- TRACT AREA = 331,927.20 S.F. = 7.62 ACRES
LAND DEVELOPED AREA = 510,523.20 S.F. = 11.72 ACRES
FORGE ESTATES
MAP # 165.20, BLOCK 3
LOT 1, RB 1260 PG 190

LOT INFORMATION

EXISTING LOT WIDTH: 1,083.97'
EXISTING LOT DEPTH: 300'
MAX. IMPERVIOUS COVER: 35%
AREA OF PROPOSED PAVEMENT WITHIN TRACT AREA: 40,075 SF
AREA OF PROPOSED PAVEMENT OUTSIDE TRACT AREA: 13,504 SF
PROPOSED IMPERVIOUS COVER: 15.75%

SOIL

THE SOIL TYPES ON THE SITE ARE
DA - DUMPS, MINE
UA - UDORTHENTS, STRIP MINE
VcB - VOLUSIA CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES

THERE ARE 25 PROPOSED RESIDENTIAL LOTS FOR THIS SITE
MINIMUM LOT SIZE IS 10,262 S.F.
MAXIMUM LOT SIZE IS 14,894 S.F.

LOT AREA

- TRACT AREA = 495,297 S.F. = 11.37 ACRES
FORGE ESTATES
MAP # 165.20, BLOCK 3
LOT 2, RB 1260 PG 190

LOT INFORMATION

EXISTING LOT WIDTH: 1,083.97'
EXISTING LOT DEPTH: 432'

- ALL LOTS WITHIN THE SUBDIVISION MUST BE CONNECTED TO THE PUBLIC WATER SYSTEM AS PROVIDED ON THE PLANS

- ALL LOTS WITHIN THE SUBDIVISION MUST BE CONNECTED TO THE PUBLIC SANITARY SEWER SYSTEM AS PROVIDED ON THE PLANS

PARKING REQUIREMENTS

OFF-STREET PARKING REQUIREMENTS
SINGLE-FAMILY HOUSES
TOTAL REQUIRED SPACES: 2 PER SINGLE-FAMILY HOME

TOPOGRAPHIC AND PLANAMETRIC MAPPING PREPARED BY:
AEROCON PHOTOGRAMMETRIC SERVICES, INC
MR. STEVEN JAMES LESSMAN, P.E.
LIC. # 26114-E, DATED JUNE 20, 2002

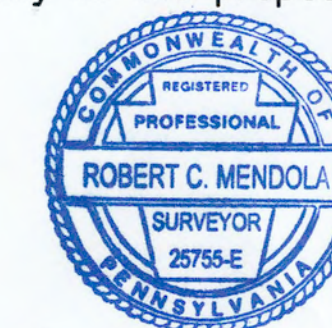
ORIGINAL BOUNDARY SURVEY AND DEED PLOTTING PREPARED BY:
ROBERT MENDOLA, P.L.S.
LIC. #SU-25755-E, DATED 05-04-02, LATEST REVISION 07-06-07

SURVEYOR'S CERTIFICATION

"I, Robert C. Mendola, P.L.S., do hereby certify that this plan, prepared from a field survey on , correctly represents the property boundary of the proposed subdivision"

Robert C. Mendola
Robert C. Mendola, P.L.S.

Prepared By: Mendola & Associates
Dunmore, PA



ENGINEER'S CERTIFICATION

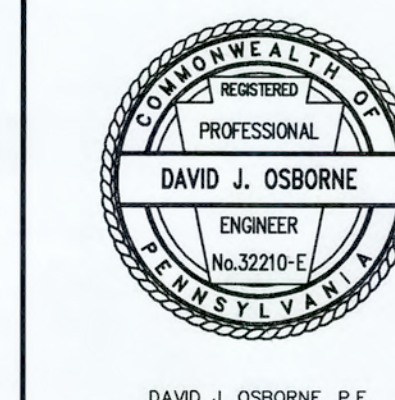
"I, David J. Osburne, P.E., do hereby certify, pursuant to the penalties of 18 Pa. C.S.A., Section 4904, to the best of my knowledge, information and belief, that the information contained in the accompanying plans, specifications, and report has been prepared in accordance with the accepted engineering practice, is true and correct, and is in conformance with Chapter 145 of the Code of the Borough of Old Forge."

David J. Osburne
David J. Osburne, P.E.

Prepared By: CECO Associates, Inc.
Scranton, PA



PENNSYLVANIA ONE CALL
SERIAL NUMBER: 2286011
DATE: 08-15-08



OLD FORGE BOROUGH	3-16-10
LOCD	9-29-08
OLD FORGE BOROUGH	25-08
REVISIONS	DATE
DESIGNED	ACB
CHECKED	DJO
JOB NO.	06-09-94
DATE	02-05-08



ceco associates inc.

LOCATION MAP
FORGE ESTATES
BOROUGH OF OLD FORGE
LACKAWANNA COUNTY
PENNSYLVANIA

U.S. GEOLOGICAL SURVEY MAP
SCRANTON, PA 1994
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL
DATUM OF 1929
SCALE: 1" = 1500'

LIST OF DRAWINGS

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SPECIFICATIONS:

ALL CONSTRUCTION SPECIFICATIONS SHALL FOLLOW PENNSYLVANIA DEPARTMENT OF TRANSPORTATION'S PUBLICATION 408/2007 EDITION AND ANY ATTACHMENTS, ADDENDUMS, AND AMENDMENTS ASSOCIATED WITH PUBLICATION 408/2007 EDITION.

COVER SHEET

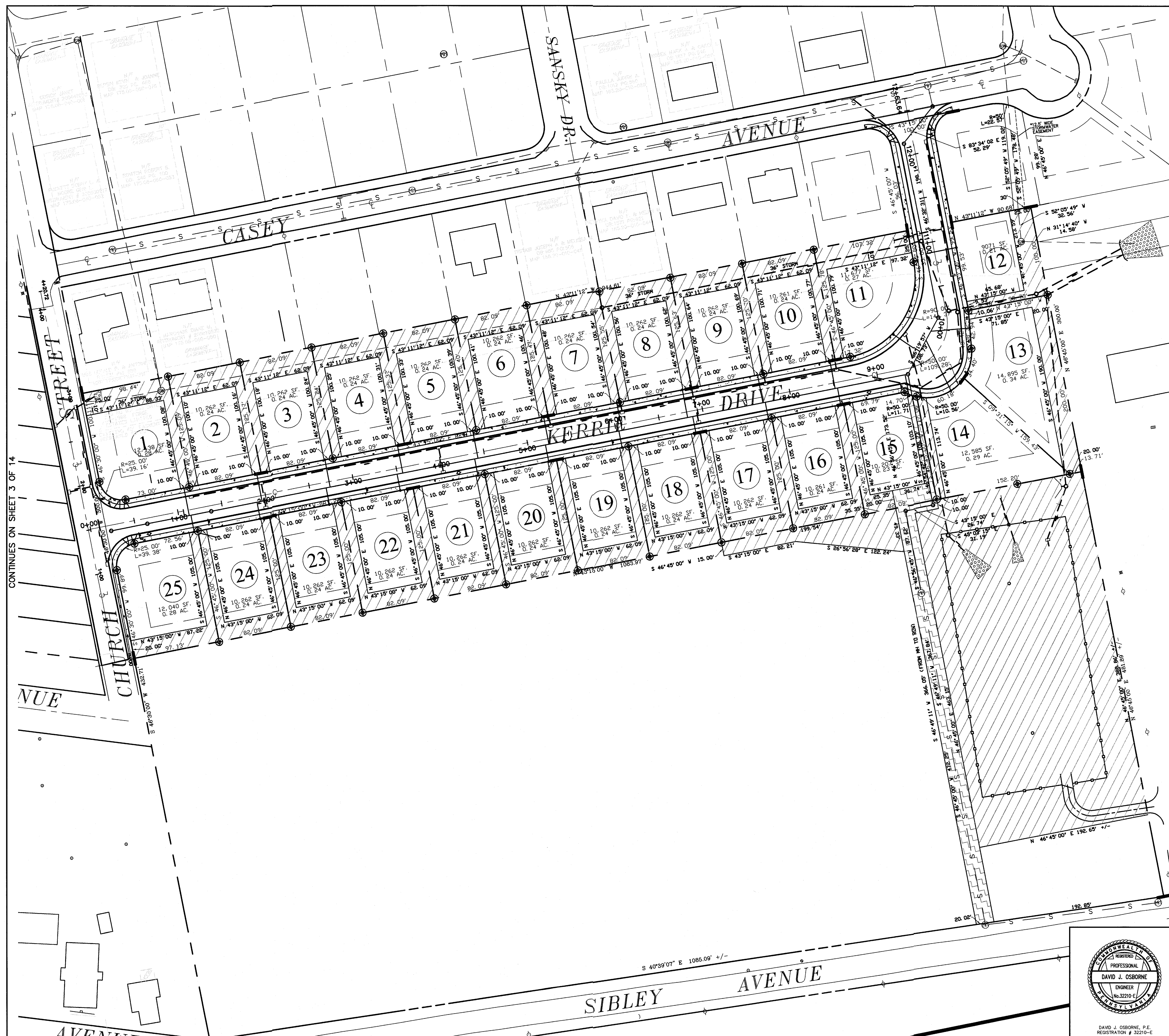
FORGE ESTATES PHASE II
PROPOSED SUBDIVISION/LAND DEVELOPMENT
BOROUGH OF OLD FORGE
LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers

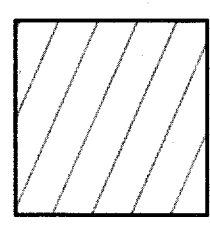
p.o. box 995, scranton, pa. 18501 570-342-3101

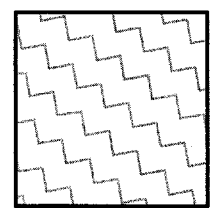
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INDEX

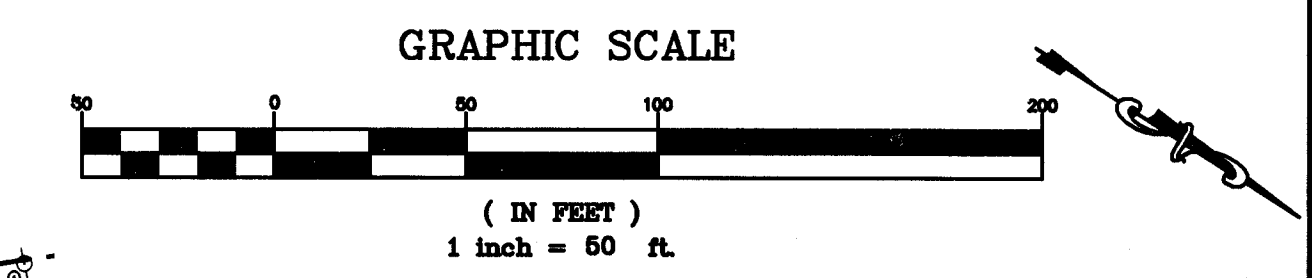


LEGEND	EXISTING	PROPOSED
GRADE CONTOUR	500	500
PROPERTY LINE	---	---
RIGHT-OF-WAY LINE	---	---
SANITARY LINE	S	S
STORMWATER LINE	---	---
WATER LINE	W	W
GAS LINE	GAS	GAS
ELECTRIC LINE	ETC	ETC
STORMWATER MANHOLE	⊙	⊙
SANITARY SEWER MANHOLE	⊙	⊙
WATER VALVE	⊙	⊙
GAS VALVE	⊙	⊙
UTILITY POLE	⊙	⊙
CURB	---	---
SIDEWALK	---	---
CATCH BASIN	⊙	⊙
FIRE HYDRANT	⊙	⊙
BUILDING	---	---
EDGE OF PAVEMENT	---	---
SIGN	---	---
TREE LINE	---	---
BRUSH	---	---
ROCK OUTLET PROTECTION	---	---
BUILDING SETBACK LINE	---	---
PAVEMENT	---	---
MARKER	⊙	⊙
MONUMENTS	⊙	⊙

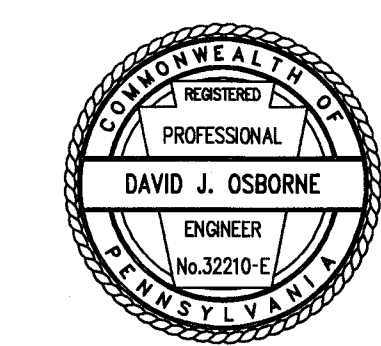
 DRAINAGE EASEMENT TO BE GRANTED TO OLD FORGE BOROUGH WITH THE EXCLUSION OF THE PROPOSED SWALES

 SANITARY EASEMENT TO BE GRANTED TO OLD FORGE BOROUGH

NOTE: FOR DESCRIPTION OF 10' DRAINAGE EASEMENTS ON EXISTING LOTS REFER TO ORIGINAL DEEDS.



PHASE 1 REVISIONS		8-28-09
LCCD		9-29-08
OLD FORGE BOROUGH		8-25-08
REVISIONS		DATE
DESIGNED	ACB	CRS
CHECKED	DJO	SCALE
JOB NO.	06-09-94	DATE
	02-05-08	



DAVID J. OSBORNE, P.E.
REGISTRATION # 32210-E

EASEMENT PLAN	
FORGE ESTATES PHASE II	
PROPOSED SUBDIVISION/LAND DEVELOPMENT	
BOROUGH OF OLD FORGE	
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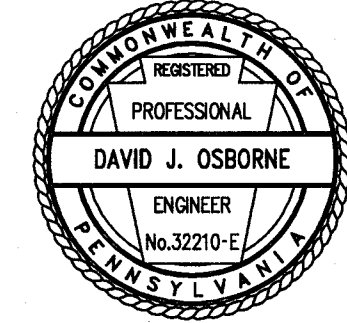
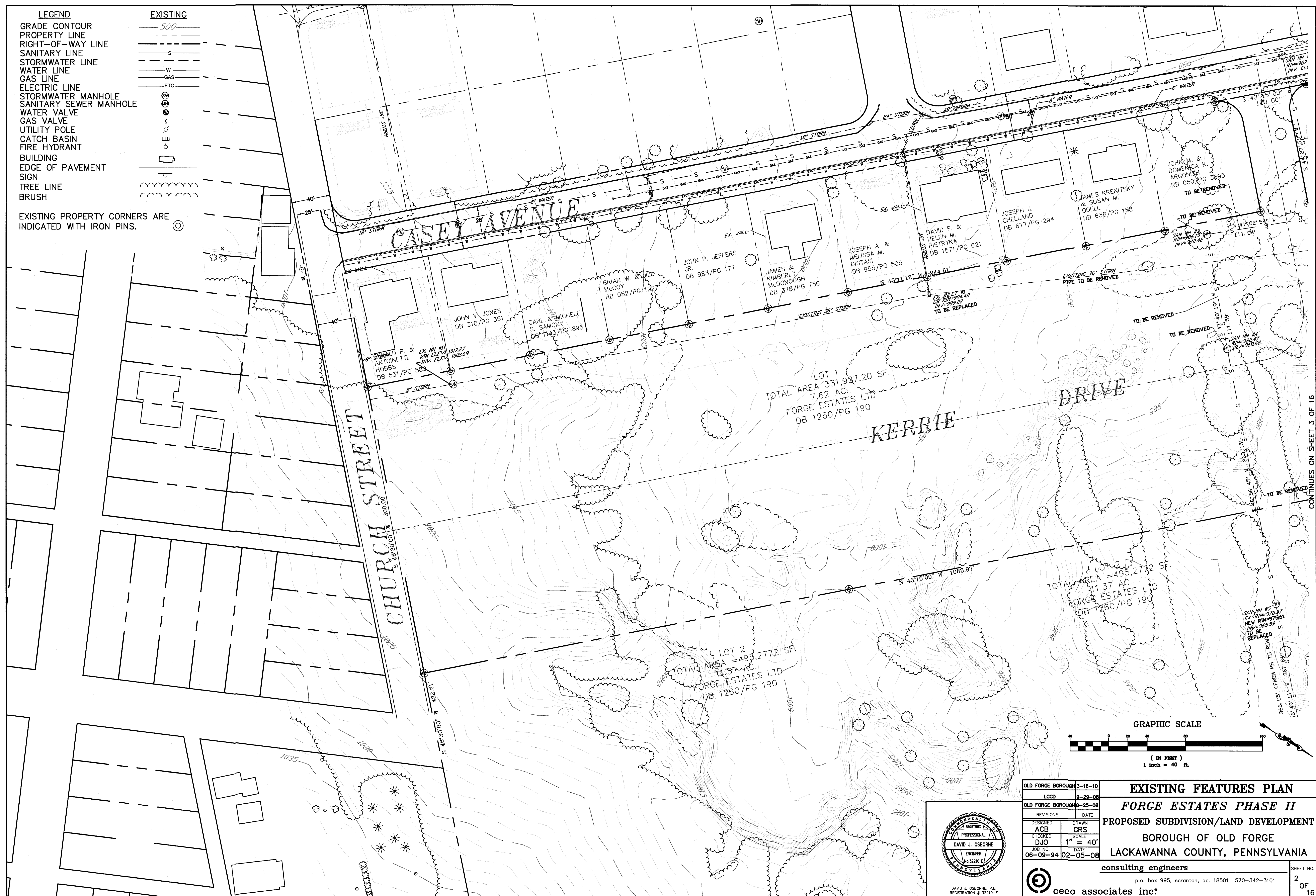
SHEET NO.	1A
OF	16

CONTINUES ON SHEET 3 OF 14

- LEGEND**
- GRADE CONTOUR
 - PROPERTY LINE
 - RIGHT-OF-WAY LINE
 - SANITARY LINE
 - STORMWATER LINE
 - WATER LINE
 - GAS LINE
 - ELECTRIC LINE
 - STORMWATER MANHOLE
 - SANITARY SEWER MANHOLE
 - WATER VALVE
 - GAS VALVE
 - UTILITY POLE
 - CATCH BASIN
 - FIRE HYDRANT
 - BUILDING
 - EDGE OF PAVEMENT
 - SIGN
 - TREE LINE
 - BRUSH

- EXISTING**
- 500
 - S
 - W
 - GAS
 - ETC.

EXISTING PROPERTY CORNERS ARE INDICATED WITH IRON PINS.



OLD FORGE BOROUGH 3-16-10		EXISTING FEATURES PLAN	
LCCD		9-29-08	
OLD FORGE BOROUGH 8-25-08		FORGE ESTATES PHASE II	
REVISIONS		DATE	
DESIGNED	ACB	DRAWN	CRS
CHECKED	DJO	SCALE	1" = 40'
JOB NO.	06-09-94	DATE	02-05-08
consulting engineers			
cenco associates inc.			
p.o. box 995, scranton, pa. 18501 570-342-3101			
SHEET NO. 2 OF 16			

LEGEND
 GRADE CONTOUR
 PROPERTY LINE
 RIGHT-OF-WAY LINE
 SANITARY LINE
 STORMWATER LINE
 WATER LINE
 GAS LINE
 ELECTRIC LINE
 STORMWATER MANHOLE
 SANITARY SEWER MANHOLE
 WATER VALVE
 GAS VALVE
 UTILITY POLE
 CURB
 SIDEWALK
 CATCH BASIN
 FIRE HYDRANT
 BUILDING
 EDGE OF PAVEMENT
 SIGN
 TREE LINE
 BRUSH

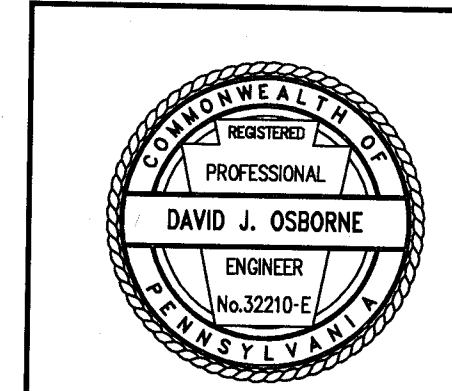
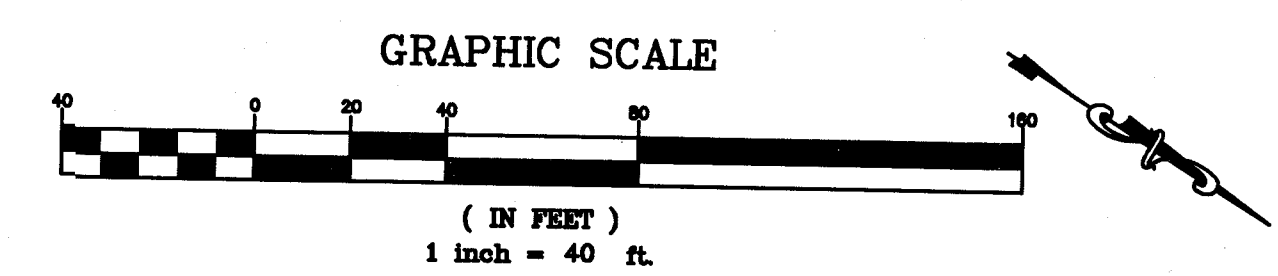
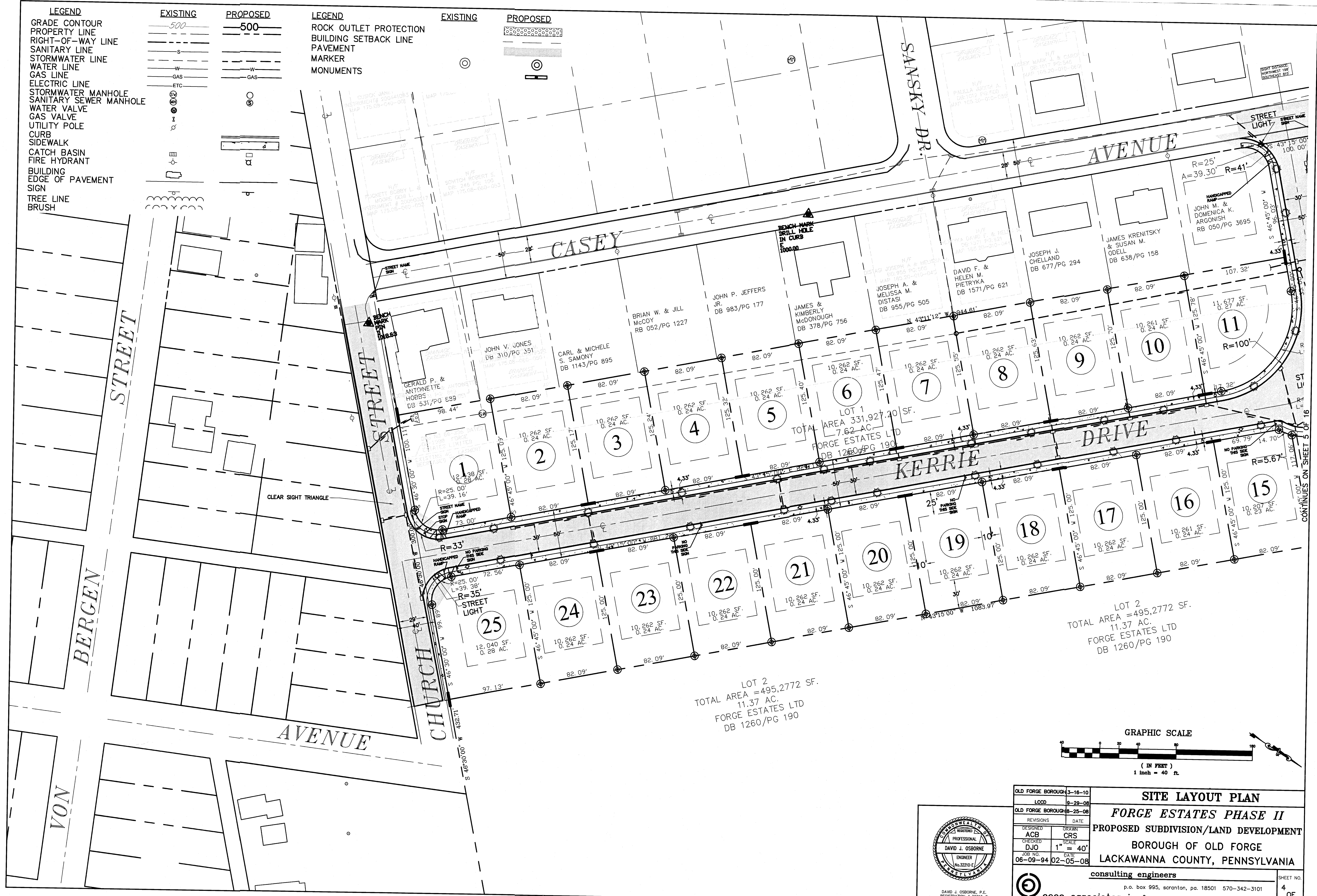
EXISTING
 500
 S
 W
 GAS
 ETC

PROPOSED
 500
 S
 W
 GAS

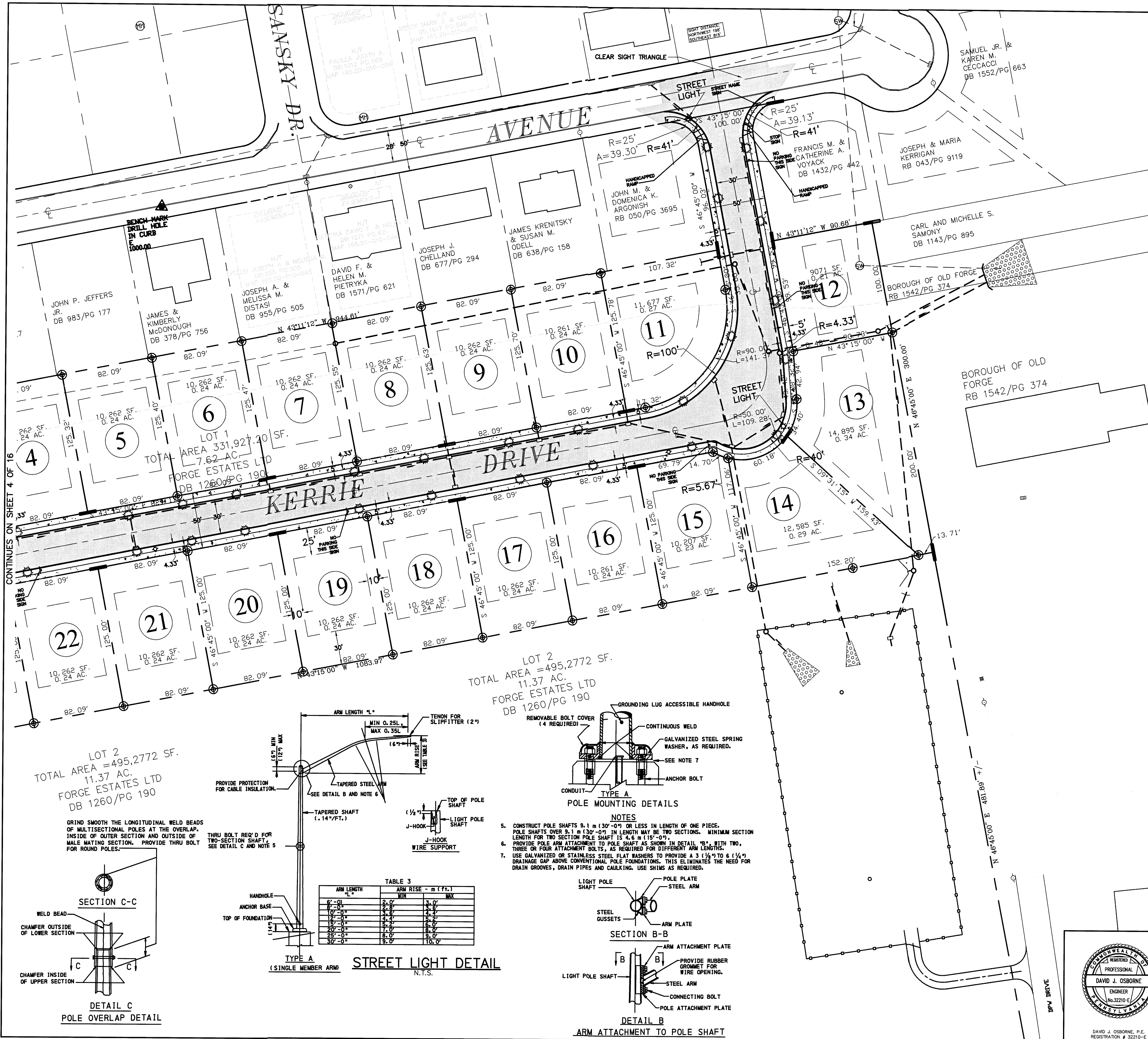
LEGEND
 ROCK OUTLET PROTECTION
 BUILDING SETBACK LINE
 PAVEMENT
 MARKER
 MONUMENTS

EXISTING
 [Symbol]

PROPOSED
 [Symbol]



OLD FORGE BOROUGH 3-16-10		SITE LAYOUT PLAN	
LCCD 9-29-08		FORGE ESTATES PHASE II	
OLD FORGE BOROUGH 8-25-08		PROPOSED SUBDIVISION/LAND DEVELOPMENT	
DESIGNED ACB	DATE	BOROUGH OF OLD FORGE	
CHECKED DJO	SCALE 1" = 40'	LACKAWANNA COUNTY, PENNSYLVANIA	
JOB NO. 06-09-94	DATE 02-05-08	consulting engineers	
DAVID J. OSBORNE, P.E. REGISTRATION # 32210-E		ceco associates inc. p.o. box 995, scranton, pa. 18501 570-342-3101	
		SHEET NO. 4 OF 16	



LEGEND

GRADE CONTOUR
PROPERTY LINE
RIGHT-OF-WAY LINE
SANITARY LINE
STORMWATER LINE
WATER LINE
GAS LINE
ELECTRIC LINE
STORMWATER MANHOLE
SANITARY SEWER MANHOLE
WATER VALVE
GAS VALVE
UTILITY POLE
CURB
SIDEWALK
CATCH BASIN
FIRE HYDRANT
BUILDING
EDGE OF PAVEMENT
SIGN
TREE LINE
BRUSH
ROCK OUTLET PROTECTION
BUILDING SETBACK LINE
PAVEMENT
MARKER
MONUMENTS

EXISTING
500
S
W
GAS
ETC

PROPOSED
500
W
GAS
ETC

SECTION A-A

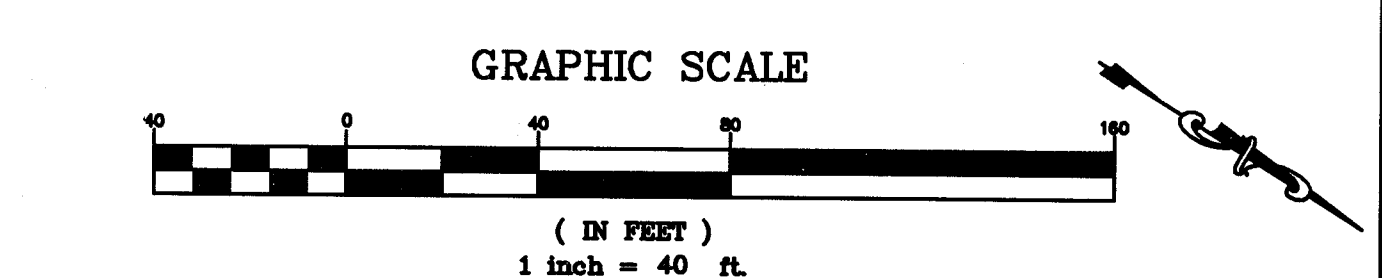
● = SCORED 1/2" ROUND BRASS PIN @ TOP CENTER

NOTE: MONUMENTS SHALL BE PLACED SO THAT THE SCORED PIN WILL COINCIDE EXACTLY WITH THE INTERSECTION OF THE LINES TO BE MARKED, AND SHALL BE SET SO THE TOP OF THE MONUMENT IS LEVEL WITH THE SURROUNDING GROUND SURFACE.

CONCRETE MONUMENT DETAIL
N.T.S.

FLUSH W/ GROUND
GROUND SURFACE
(MIN) 15"
MIN. 3/4" STEEL BAR

STEEL MARKER DETAIL
N.T.S.



SITE LAYOUT PLAN

FORGE ESTATES PHASE II

PROPOSED SUBDIVISION/LAND DEVELOPMENT

BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers

cenco associates inc.

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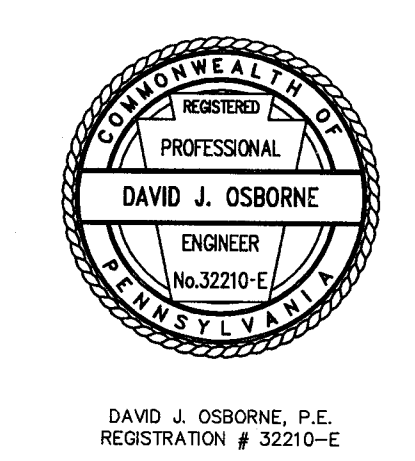
DESIGNED ACB
CHECKED DJO
DATE 06-09-94

DRAWN CRS
SCALE 1" = 40'
DATE 02-05-08

REVISIONS

DATE

5 OF **16**



STREET LIGHT DETAIL
N.T.S.

ARM LENGTH "L"
MIN 0.25L
MAX 0.35L
(16") MIN (12") MAX
TAPERED STEEL ARM
TAPERED SHAFT (14"/FT.)
HANDHOLE
ANCHOR BASE
TOP OF FOUNDATION

TYPE A (SINGLE MEMBER ARM)

TABLE 3

ARM LENGTH "L"	ARM RISE - m (ft.)	MIN	MAX
6'-0"	2'-0"	3'-0"	3'-0"
8'-0"	2'-6"	3'-6"	3'-6"
10'-0"	3'-0"	4'-0"	4'-0"
12'-0"	3'-6"	4'-6"	4'-6"
14'-0"	4'-0"	5'-0"	5'-0"
16'-0"	4'-6"	5'-6"	5'-6"
18'-0"	5'-0"	6'-0"	6'-0"
20'-0"	5'-6"	6'-6"	6'-6"
22'-0"	6'-0"	7'-0"	7'-0"
24'-0"	6'-6"	7'-6"	7'-6"
26'-0"	7'-0"	8'-0"	8'-0"
28'-0"	7'-6"	8'-6"	8'-6"
30'-0"	8'-0"	9'-0"	9'-0"

TYPE B (DOUBLE MEMBER ARM)

DETAIL C
POLE OVERLAP DETAIL

DETAIL B
ARM ATTACHMENT TO POLE SHAFT

POLE MOUNTING DETAILS

TYPE A

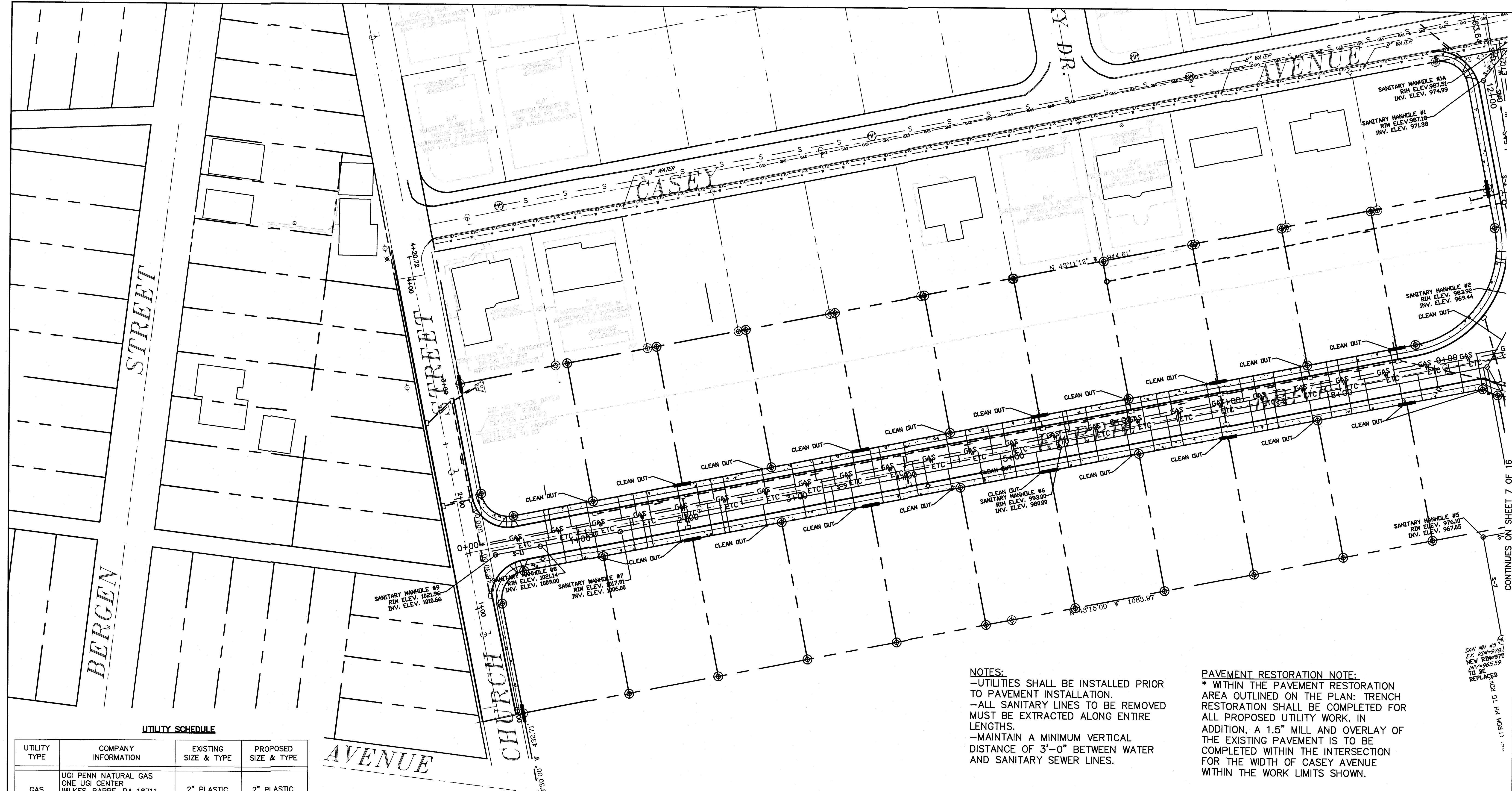
REMOVABLE BOLT COVER (4 REQUIRED)
GROUNDING LUG ACCESSIBLE HANDHOLE
CONTINUOUS WELD
GALVANIZED STEEL SPRING WASHER, AS REQUIRED.
SEE NOTE 7
ANCHOR BOLT
CONDUIT

NOTES

- CONSTRUCT POLE SHAFTS 9.1 m (30'-0") OR LESS IN LENGTH OF ONE PIECE. POLE SHAFTS OVER 9.1 m (30'-0") IN LENGTH MAY BE TWO SECTIONS. MINIMUM SECTION LENGTH FOR TWO SECTION POLE SHAFT IS 4.6 m (15'-0").
- PROVIDE POLE ARM ATTACHMENT TO POLE SHAFT AS SHOWN IN DETAIL "B", WITH TWO, THREE OR FOUR ATTACHMENT BOLTS, AS REQUIRED FOR DIFFERENT ARM LENGTHS.
- USE GALVANIZED OR STAINLESS STEEL FLAT WASHERS TO PROVIDE A 3 (1/4") TO 6 (1/4") DRAINAGE GAP ABOVE CONVENTIONAL POLE FOUNDATIONS. THIS ELIMINATES THE NEED FOR DRAIN GROOVES, DRAIN PIPES AND CAULKING. USE SHIMS AS REQUIRED.

DETAIL B
ARM ATTACHMENT TO POLE SHAFT

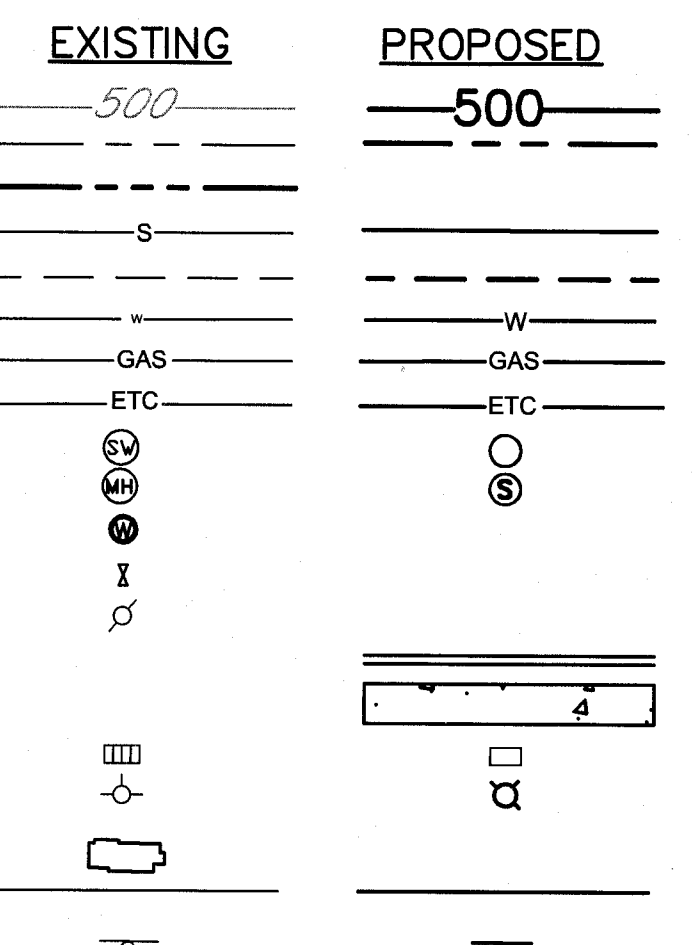
LIGHT POLE SHAFT
POLE PLATE
STEEL ARM
ARM ATTACHMENT PLATE
PROVIDE RUBBER GROMMET FOR WIRE OPENING.
STEEL ARM
CONNECTING BOLT
POLE ATTACHMENT PLATE



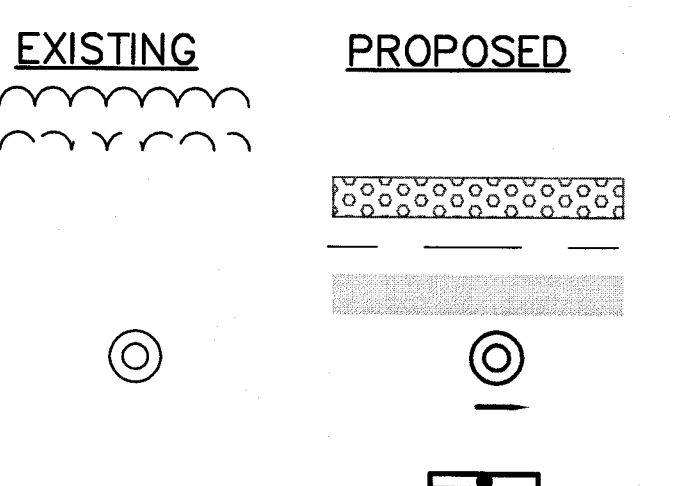
UTILITY SCHEDULE

UTILITY TYPE	COMPANY INFORMATION	EXISTING SIZE & TYPE	PROPOSED SIZE & TYPE
GAS	UGI PENN NATURAL GAS ONE UGI CENTER WILKES-BARRE, PA 18711 MICHAEL S. TRUSS 1-800-432-8017	2" PLASTIC	2" PLASTIC
WATER	PA. AMERICAN WATER CO. 2699 STAFFORD AVENUE SCRANTON, PA 18505 ANTHONY GANGEMI (570) 969-7846	8" DUCTILE IRON	8" DUCTILE IRON
SANITARY SEWER	LOWER LACKAWANNA VALLEY SANITARY AUTHORITY COXTON ROAD, P.O. BOX 67 DURIEA, PA 18642 TOM McDERMOTT (570) 378-3359	8" SDR-35	8" SDR-35
ELECTRIC	PP&L ELECTRIC UTILITIES INC. 600 LARCH STREET SCRANTON, PA 18509 GABRIEL ANGRADI (570) 348-1538	UNDERGROUND	4" SCH. 40 PVC
TELEPHONE	VERIZON PENNSYLVANIA INC. 121 ADAMS AVENUE, FLOOR 5 SCRANTON, PA 18503 JIM GROFF (570) 348-5643	UNDERGROUND	4" SCH. 40 PVC
CABLE	COMCAST 1 COMCAST WAY DURIEA, PA 18642 ELMER DAY (570) 471-0011	UNDERGROUND	4" SCH. 40 PVC

- LEGEND**
- GRADE CONTOUR
 - PROPERTY LINE
 - RIGHT-OF-WAY LINE
 - SANITARY LINE
 - STORMWATER LINE
 - WATER LINE
 - GAS LINE
 - ELECTRIC LINE
 - STORMWATER MANHOLE
 - SANITARY SEWER MANHOLE
 - WATER VALVE
 - GAS VALVE
 - UTILITY POLE
 - CURB
 - SIDEWALK
 - CATCH BASIN
 - FIRE HYDRANT
 - BUILDING
 - EDGE OF PAVEMENT
 - SIGN



- LEGEND**
- TREE LINE
 - BRUSH
 - ROCK OUTLET PROTECTION
 - BUILDING SETBACK LINE
 - *PAVEMENT RESTORATION
 - MARKER
 - FLOW ARROW
 - MONUMENTS

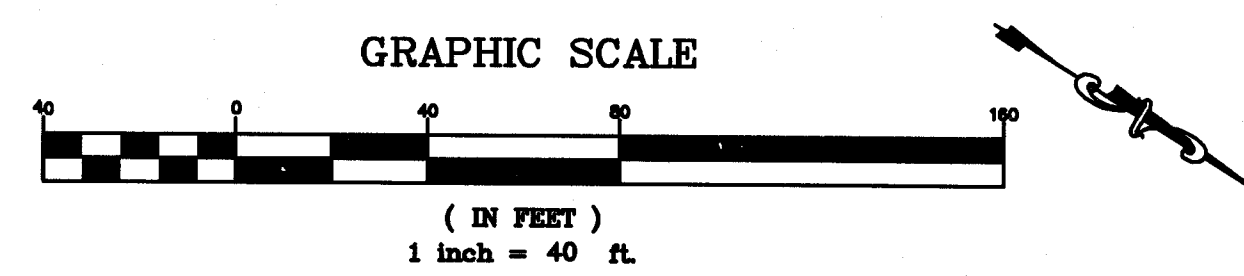


NOTES:

- UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION.
- ALL SANITARY LINES TO BE REMOVED MUST BE EXTRACTED ALONG ENTIRE LENGTHS.
- MAINTAIN A MINIMUM VERTICAL DISTANCE OF 3'-0" BETWEEN WATER AND SANITARY SEWER LINES.

PAVEMENT RESTORATION NOTE:

- * WITHIN THE PAVEMENT RESTORATION AREA OUTLINED ON THE PLAN: TRENCH RESTORATION SHALL BE COMPLETED FOR ALL PROPOSED UTILITY WORK. IN ADDITION, A 1.5" MILL AND OVERLAY OF THE EXISTING PAVEMENT IS TO BE COMPLETED WITHIN THE INTERSECTION FOR THE WIDTH OF CASEY AVENUE WITHIN THE WORK LIMITS SHOWN.



FOR SANITARY PROFILE SEE SHEET S-1

UTILITY PLAN

FORGE ESTATES PHASE II

PROPOSED SUBDIVISION/LAND DEVELOPMENT

BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers

p.o. box 995, scranton, pa. 18501 570-342-3101

ceco associates inc.

DESIGNED: ACB
CHECKED: DJO
DATE: 06-09-94

DRAWN: CRS
SCALE: 1" = 40'
DATE: 02-05-08

OLD FORGE BOROUGH 3-18-10
LCCD 9-29-08
OLD FORGE BOROUGH 8-25-08

REVISIONS: DATE

DAVID J. OSBORNE, P.E.
REGISTERED PROFESSIONAL ENGINEER
No. 32210-E

SHOOT NO. 6 OF 16

LEGEND

GRADE CONTOUR

PROPERTY LINE

RIGHT-OF-WAY LINE

SANITARY LINE

STORMWATER LINE

WATER LINE

GAS LINE

ELECTRIC LINE

STORMWATER MANHOLE

SANITARY SEWER MANHOLE

WATER VALVE

GAS VALVE

UTILITY POLE

CURB

SIDEWALK

CATCH BASIN

FIRE HYDRANT

BUILDING

EDGE OF PAVEMENT

SIGN

TREE LINE

BRUSH

ROCK OUTLET PROTECTION

BUILDING SETBACK LINE

*PAVEMENT RESTORATION

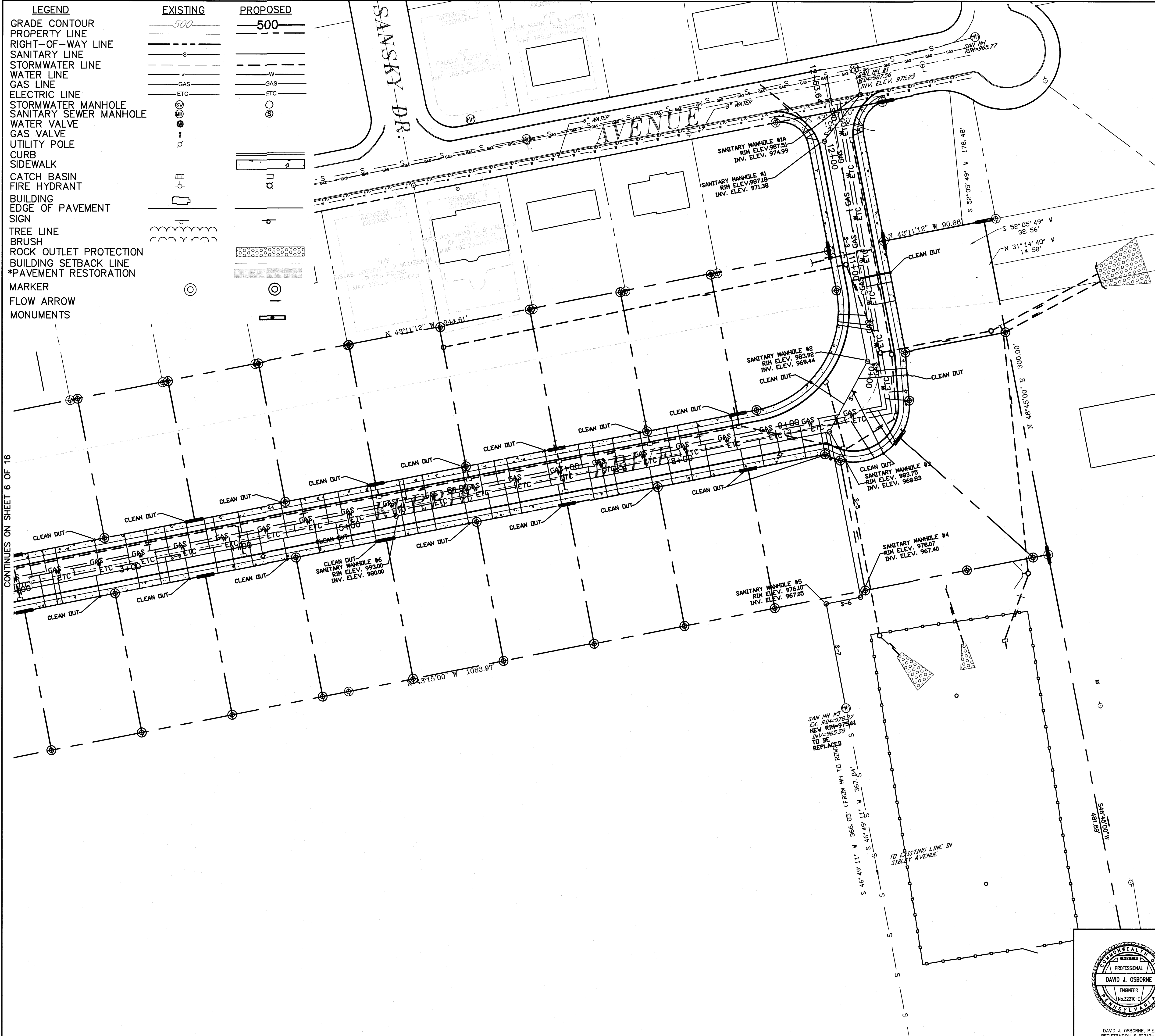
MARKER

FLOW ARROW

MONUMENTS

EXISTING

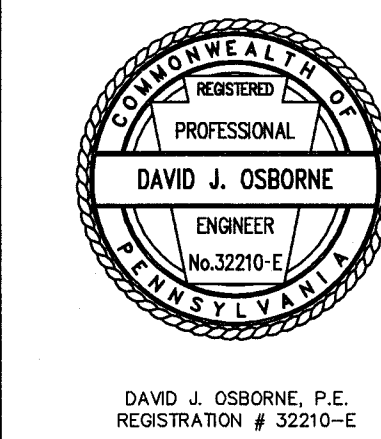
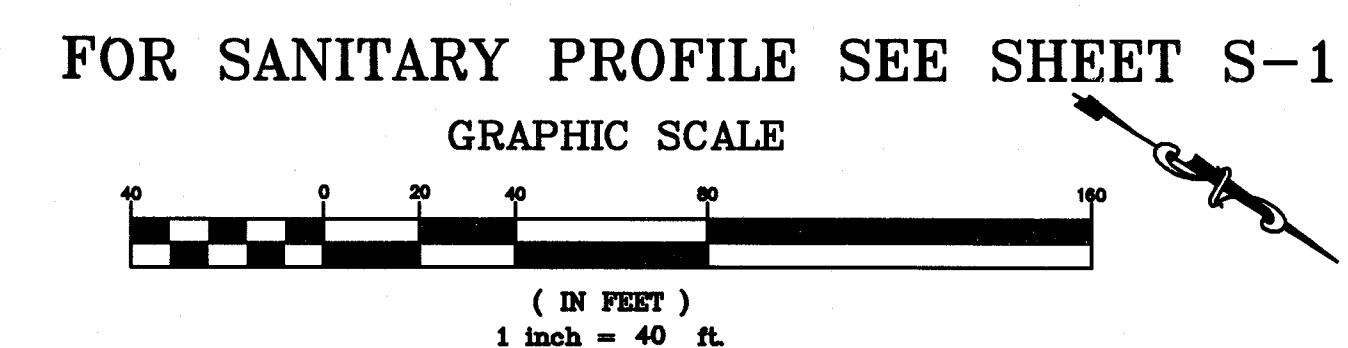
PROPOSED



PAVEMENT RESTORATION NOTE:
 * WITHIN THE PAVEMENT RESTORATION AREA OUTLINED ON THE PLAN: TRENCH RESTORATION SHALL BE COMPLETED FOR ALL PROPOSED UTILITY WORK. IN ADDITION, A 1.5" MILL AND OVERLAY OF THE EXISTING PAVEMENT IS TO BE COMPLETED WITHIN THE INTERSECTION FOR THE WIDTH OF CASEY AVENUE WITHIN THE WORK LIMITS SHOWN.

NOTES:
 -UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION.
 -ALL SANITARY LINES TO BE REMOVED MUST BE EXTRACTED ALONG ENTIRE LENGTHS.
 -MAINTAIN A MINIMUM VERTICAL DISTANCE OF 3'-0" BETWEEN WATER AND SANITARY SEWER LINES.

UTILITY SCHEDULE			
UTILITY TYPE	COMPANY INFORMATION	EXISTING SIZE & TYPE	PROPOSED SIZE & TYPE
GAS	UGI PENN NATURAL GAS ONE UGI CENTER WILKES-BARRE, PA 18711 MICHAEL S. TRUSS 1-800-432-8017	2" PLASTIC	2" PLASTIC
WATER	PA. AMERICAN WATER CO. 2699 STAFFORD AVENUE SCRANTON, PA 18505 ANTHONY GANGEMI (570) 969-7846	8" DUCTILE IRON	8" DUCTILE IRON
SANITARY SEWER	LOWER LACKAWANNA VALLEY SANITARY AUTHORITY COXTON ROAD, P.O. BOX 67 DURYEA, PA 18642 TOM MCDERMOTT (570) 378-3359	8" SDR-35	8" SDR-35
ELECTRIC	PP&L ELECTRIC UTILITIES INC. 600 LARCH STREET SCRANTON, PA 18509 GABRIEL ANGRADI (570) 348-1538	UNDERGROUND	4" SCH. 40 PVC
TELEPHONE	VERIZON PENNSYLVANIA INC. 121 ADAMS AVENUE, FLOOR 5 SCRANTON, PA 18503 JIM GROFF (570) 348-5643	UNDERGROUND	4" SCH. 40 PVC
CABLE	COMCAST 1 COMCAST WAY DURYEA, PA 18642 ELMER DAY (570) 471-0011	UNDERGROUND	4" SCH. 40 PVC



OLD FORGE BOROUGH 3-16-10

LOCD 9-29-08

OLD FORGE BOROUGH 8-25-08

REVISIONS DATE

DESIGNED ACB

CHECKED DJO

JOB NO. 06-09-94

DATE 02-05-08

UTILITY PLAN

FORGE ESTATES PHASE II

PROPOSED SUBDIVISION/LAND DEVELOPMENT

BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers

cenco associates inc.

p.o. box 995, scranton, pa. 18501 570-342-3101

DAVID J. OSBORNE

PROFESSIONAL ENGINEER

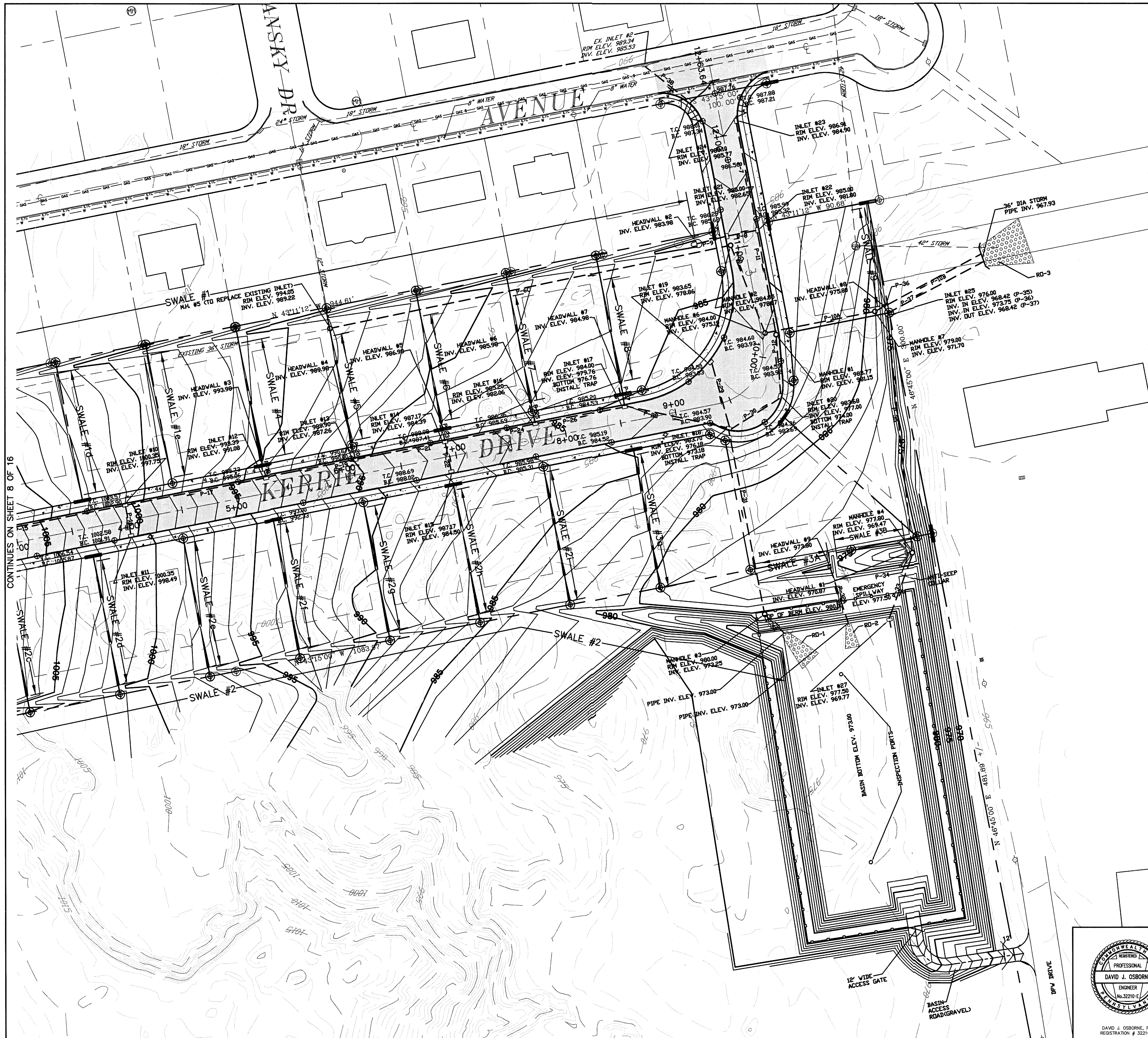
NO. 32210-E

STATE OF PENNSYLVANIA

7

OF

16



PROJECT CONSTRUCTION AND INSPECTION SCHEDULE
Construction of the project will begin in OCTOBER 2008 and end in OCTOBER 2009. Throughout the construction process there will be a full time construction inspector hired by the owner. There will be a two-week inspection cycle for all installed structures and materials throughout the construction.

PERMANENT STORMWATER CONTROL MEASURES
Forge Estates, LLC. will be responsible for all permanent stormwater controls on the site during and after construction, until the infrastructure has been turned over to the Borough of Old Forge. The stormwater control structures include the stormwater pipes, outlet areas, inlets, snout oil-debris separators, detention basin and infiltration bed. The proposed swales will not be offered for dedication to Old Forge Borough. These structures must be cleaned and maintained according to the following schedule in order to function properly. Refer to specific details for more information.

OPERATION & MAINTENANCE SCHEDULE
STORMWATER MANHOLES AND INLETS:
THE STORMWATER INLETS AND MANHOLES SHOULD BE MONITORED QUARTERLY AND AFTER LARGE STORM EVENTS FOR DAMAGE OR OBSTRUCTIONS. INLET #27 CONTAINS AN ORIFICE WHICH CAN BECOME CLOGGED. CLEAN OUT USING VACUUM PUMP OR EXCAVATION.

SNOUT OIL-DEBRIS SEPARATORS:
NORMAL MAINTENANCE OF THE SNOUT OIL-DEBRIS SEPARATORS THEMSELVES CONSISTS OF ANNUAL INSPECTION AND RINSING WITH A HOSE OR PRESSURE WASHER DURING THE CLEANING SEQUENCE OF THE CATCH BASIN, ROTATING AND RE-SEATING THE ACCESS PORT AND FLUSHING THE ANTI-SIPHON VENT WITH WATER OR AIR TO VERIFY THAT IT IS CLEAR. STRUCTURES THAT ARE EQUIPPED WITH A SNOUT SHOULD BE SCHEDULED FOR MAINTENANCE WHEN THE SUMP REACHES A HALF FULL CONDITION OR WHEN HEAVY FLOATABLES AND OIL ACCUMULATION ARE EVIDENT. THE INSERTS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S GENERAL INSTRUCTIONS AND RECOMMENDATIONS. INLETS #17, #18, AND #20 ARE TO BE EQUIPPED WITH SNOUT OIL-DEBRIS SEPARATORS.

SWALES:
SWALES SHOULD BE MONITORED QUARTERLY AND AFTER LARGE STORM EVENTS FOR DAMAGE OR DEBRIS. DAMAGE OR EROSION SHOULD BE REPAIRED IMMEDIATELY. DEBRIS SHOULD BE REMOVED IMMEDIATELY.

DETENTION BASIN:
THE BASIN SHOULD BE MONITORED QUARTERLY AND AFTER LARGE STORM EVENTS. IF EROSION OR FAILURE OF STABILIZATION OCCURS IT MUST BE CORRECTED IMMEDIATELY. THE OUTLET STRUCTURE MUST ALSO BE MONITORED FOR CLOGGING OF THE ORIFICE OR GRATE. EXCAVATE OR PUMP OUT OBSTRUCTIONS. THE INFILTRATION BED SHOULD BE MONITORED TO MAKE SURE WATER IS INFILTRATING INTO THE SOIL.

INFILTRATION BED:
THE INFILTRATION BED SHOULD BE INSPECTED USING THE INSPECTION PORTS QUARTERLY AND AFTER LARGE STORM EVENTS TO MAKE SURE THAT THE WATER IS INFILTRATING PROPERLY. IT IS RECOMMENDED THAT A LOG BOOK BE MADE SHOWING THE DEPTH OF WATER IN THE INFILTRATION BED AT EACH INSPECTION SO THAT AN INFILTRATION RATE CAN BE DETERMINED. ONCE THE PERFORMANCE CHARACTERISTICS OF THE STRUCTURE ARE DETERMINED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS, UNLESS THE PERFORMANCE DATA INDICATES A NEED FOR MORE FREQUENT INSPECTIONS. IT IS RECOGNIZED THAT INFILTRATION FACILITIES ARE SUBJECT TO CLOGGING. ONCE A STONE INFILTRATION FACILITY HAS CLOGGED, VERY LITTLE CAN BE DONE TO CORRECT IT, SHORT OF EXCAVATING THE FACILITY.

NOTE:
THE TYPE OF JOINTS USED FOR THE PROPOSED PIPE SHOULD BE OF THE GASKET TYPE AND NOT BANDED.

LEGEND

	EXISTING	PROPOSED
GRADE CONTOUR	---	---
PROPERTY LINE	---	---
RIGHT-OF-WAY LINE	---	---
SANITARY LINE	---	---
STORMWATER LINE	---	---
WATER LINE	---	---
GAS LINE	---	---
ELECTRIC LINE	---	---
STORMWATER MANHOLE	---	---
SANITARY SEWER MANHOLE	---	---
WATER VALVE	---	---
GAS VALVE	---	---
UTILITY POLE	---	---
CURB	---	---
SIDEWALK	---	---
CATCH BASIN	---	---
FIRE HYDRANT	---	---
BUILDING	---	---
EDGE OF PAVEMENT	---	---
SIGN	---	---
TREE LINE	---	---
BRUSH	---	---
ROCK OUTLET PROTECTION	---	---
BUILDING SETBACK LINE	---	---
PAVEMENT	---	---
MARKER	---	---
FLOW ARROW	---	---
MONUMENTS	---	---

(IN FEET)
1 inch = 40 ft.

OLD FORGE BOROUGH	3-16-10	GRADING & DRAINAGE PLAN	
LOC'D	9-29-08		
OLD FORGE BOROUGH	8-25-08		
REVISIONS	DATE		
DESIGNED	ACB	CRS	FORGE ESTATES PHASE II
CHECKED	DJO	SCALE	
JOB NO.	06-09-94	DATE	
02-05-08			
consulting engineers			BOROUGH OF OLD FORGE
p.o. box 995, scranton, pa. 18501 570-342-3101			
ceco associates inc.			LACKAWANNA COUNTY, PENNSYLVANIA

DAVID J. OSBORNE, P.E.
REGISTRATION # 32210-E

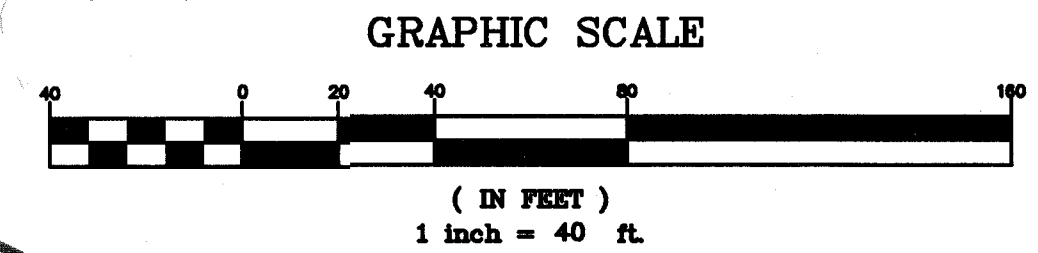
9 OF 16

INLET #24
RIM ELEV. 986.20
INV. ELEV. 985.77

INLET #21
RIM ELEV. 982.00
INV. ELEV. 981.00

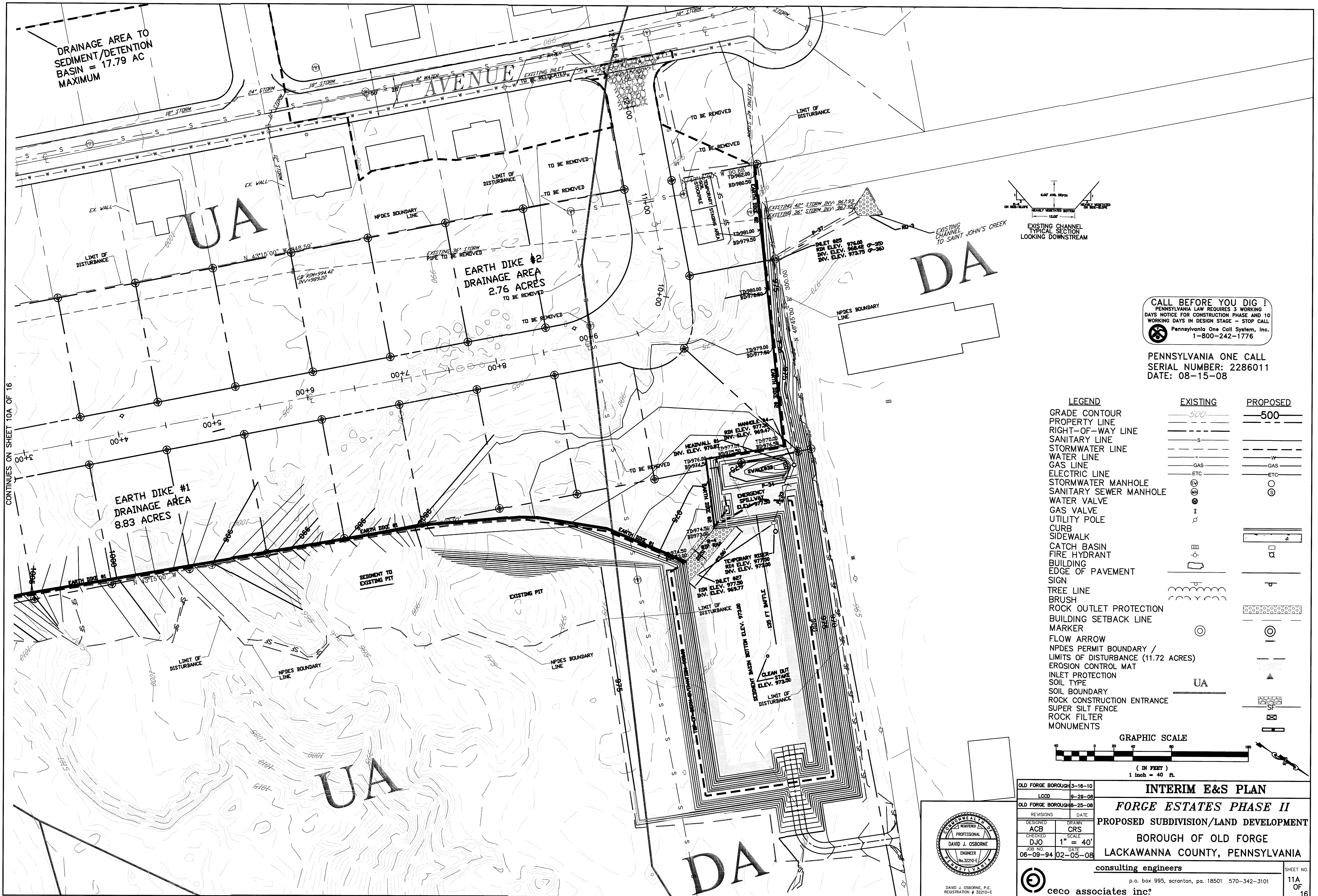
1" = 100'

11 #2



		E&S PLAN	
LCCD	9-29-08	FORGE ESTATES PHASE II PROPOSED SUBDIVISION/LAND DEVELOPMENT BOROUGH OF OLD FORGE LACKAWANNA COUNTY, PENNSYLVANIA	
OLD FORGE BOROUGH	8-25-08		
REVISIONS	DATE		
DESIGNED ACB	DRAWN CRS		
CHECKED DJO	1" = 40'		
JOB NO. 06-09-94	DATE 02-05-08		
 ceco associates inc.		<u>consulting engineers</u> p.o. box 995, scranton, pa. 18501 570-342-3101	
		SHEET NO. 10 OF 16	

SHEET NO.
10A
OF
16



DRAINAGE AREA TO
SEDIMENT/DETENTION
BASIN = 17.79 AC
MAXIMUM

UA

EARTH DIKE #2
DRAINAGE AREA
2.76 ACRES
TO BE REMOVED

EARTH DIKE #1
DRAINAGE AREA
8.83 ACRES

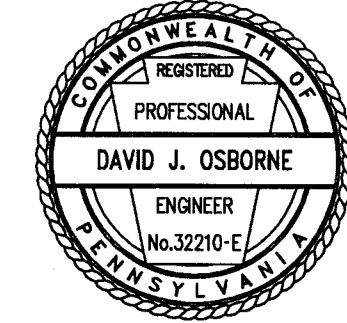
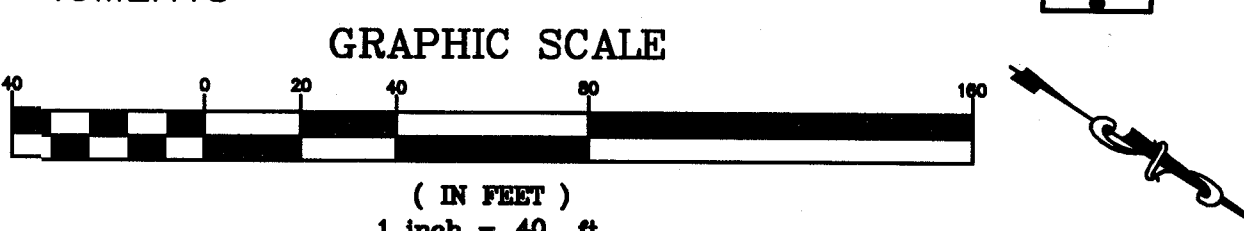
UA

DA

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING
DAYS NOTICE FOR CONSTRUCTION PHASE AND 10
WORKING DAYS IN DESIGN STAGE - STOP CALL
Pennsylvania One Call System, Inc.
1-800-242-1776

PENNSYLVANIA ONE CALL
SERIAL NUMBER: 2286011
DATE: 08-15-08

LEGEND	
GRADE CONTOUR	— 500 —
PROPERTY LINE	— 500 —
RIGHT-OF-WAY LINE	— — — — —
SANITARY LINE	— S —
STORMWATER LINE	— S —
WATER LINE	— W —
GAS LINE	— GAS —
ELECTRIC LINE	— ETC —
STORMWATER MANHOLE	⊙
SANITARY SEWER MANHOLE	⊙
WATER VALVE	⊙
GAS VALVE	⊙
UTILITY POLE	⊙
CURB	— — — — —
SIDEWALK	— — — — —
CATCH BASIN	⊙
FIRE HYDRANT	⊙
BUILDING	⊙
EDGE OF PAVEMENT	— — — — —
SIGN	⊙
TREE LINE	— — — — —
BRUSH	— — — — —
ROCK OUTLET PROTECTION	— — — — —
BUILDING SETBACK LINE	— — — — —
MARKER	⊙
FLOW ARROW	— — — — —
NPDES PERMIT BOUNDARY / LIMITS OF DISTURBANCE (11.72 ACRES)	— — — — —
EROSION CONTROL MAT	— — — — —
INLET PROTECTION	— — — — —
SOIL TYPE	— — — — —
SOIL BOUNDARY	— — — — —
ROCK CONSTRUCTION ENTRANCE	— — — — —
SUPER SILT FENCE	— — — — —
ROCK FILTER	— — — — —
MONUMENTS	— — — — —



OLD FORGE BOROUGH 3-16-10		INTERIM E&S PLAN	
LCCD 9-28-08		FORGE ESTATES PHASE II	
OLD FORGE BOROUGH 8-25-08		PROPOSED SUBDIVISION/LAND DEVELOPMENT	
REVISIONS DATE		BOROUGH OF OLD FORGE	
DESIGNED ACB	CRS	LACKAWANNA COUNTY, PENNSYLVANIA	
CHECKED DJO	1" = 40'	consulting engineers	
JOB NO. 06-09-94	DATE 02-05-08	cenco associates inc.	
		p.o. box 995, scranton, pa. 18501 570-342-3101	
		SHEET NO. 11A OF 16	

SEEDING PROCEDURES

TEMPORARY SEEDING:

ALL AREAS TO BE TEMPORARILY SEEDD SHALL BE PREPARED BY APPLYING ONE (1) TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE PLUS FERTILIZER AT THE RATE OF 50-50 PER ACRE UPON COMPLETION OF THIS PREPARATION, THE SITE SHALL BE SEEDD ACCORDING TO THE FOLLOWING SCHEDULE:

FOR SPRING SEEDING (UP TO JUNE 15):

(A) ANNUAL RYEGRASS, OR
(B) SPRING OATS, OR
(C) SPRING OATS PLUS ANNUAL RYEGRASS

FOR LATE SPRING AND SUMMER SEEDING (JUNE 15 TO AUGUST 15):

(A) SUDANGRASS, OR
(B) JAPANESE MILLET, OR
(C) ANNUAL RYEGRASS

FOR LATE SUMMER AND FALL SEEDING (AUGUST 15 ON):

(A) ANNUAL RYEGRASS, OR
(B) WINTER RYE, OR
(C) WINTER WHEAT

AFTER SEEDING, MULCH WITH HAY OR STRAW AT A RATE OF 3 TONS PER ACRE.

ANY DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL AT A RATE OF 3 TONS PER ACRE.

PERMANENT VEGETATION TO BE SEEDD OR SOODED ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING. MULCH IS TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

ANCHOR MULCH WITH SPECIFIED MULCH BINDERS APPLIED AT THE FOLLOWING RATES:

RECYCLED CELLULOSE FIBER, 320 POUNDS PER 1,000 SQUARE YARDS.
WOOD FIBER, 300 POUNDS PER 1,000 SQUARE YARDS.
NONASPHALTIC EMULSION, AT MANUFACTURER'S RECOMMENDED RATE.
POLYVINYL ACETATE, AT MANUFACTURER'S RECOMMENDED RATE.
RECYCLED CELLULOSE FIBER/WOOD FIBER MIXTURE, 310 POUNDS PER 1,000 SQUARE YARDS

APPLY WOOD FIBER MULCH HYDRAULICALLY IN ACCORDANCE WITH THE MANUFACTURER'S TANK-MIXING INSTRUCTIONS. IT MAY BE INCORPORATED AS AN INTEGRAL PART OF 1/2" SLURRY AFTER THE SEED AND SOIL SUPPLEMENTS HAVE BEEN THOROUGHLY MIXED. APPLY UNIFORMLY AT THE RATE OF 320 POUNDS PER 1,000 SQUARE YARDS, UNLESS OTHERWISE INDICATED.

MULCH TEMPORARY SEEDD AREAS WITH HAY.

DURING COLD WINTER/NOVEGETATIVE GROWTH SEASONS USE A EMULSION TACKIFIER (I.E. DIRTGLUE POLYMER EMULSION) FOR THE FOLLOWING TYPES OF APPLICATIONS:

NON-DRIVING SURFACE DUST CONTROL AND EROSION CONTROL APPLICATIONS OF ALL TYPES
SEEDMENT CONTROL
BANK STABILIZATION FOR ELIMINATING NATURAL AND MAN MADE DUST, EROSION, AND SEDIMENT POLLUTION
TACKIFIER FOR HYDROSEEDING
CAPPING OF STORAGE PILES
DUST CONTROL FOR TEMPORARY DRIVING SURFACES WITH EMPHASIS FOR CONSTRUCTION SITES
AS AN ALTERNATIVE TO WATER SPRAYING
DRIVING SURFACES FOR HOT, DRY CLIMATES

ANY AREA RECEIVING TEMPORARY SEEDING WHICH WILL BE LEFT FOR A PERIOD LONGER THAN ONE YEAR SHALL BE SEEDD WITH THE PERMANENT MIXTURES.

PERMANENT SEEDING OR REVEGETATION OF DISTURBED AREA:

APPLY LIME - 6 TONS/ACRE
FERTILIZER - N-P-K - 1000 LBS. 10, 20, 20 PER ACRE
COMPOST - 40 TONS/ACRE
MULCH WITH: 140 LBS. STRAW / 1,000 SQFT.

SEEDING OPTIONS:

SLOPES LESS THAN 3:1 - FORMULA D - 21 LBS. PER 1,000 S.Y.
TAILS LESS THAN 15 LBS. PER 1,000 S.Y.
CREEPIER RED FESCUE - 6 LBS. PER 1,000 S.Y.
MARCH 15 TO JUNE 1, OR AUGUST 1 TO OCTOBER 15

AREAS NOT MOWED LESS THAN 3:1 - FORMULA W - 10.5 LBS. PER 1,000 S.Y.
TAILS FESCUE - 7.5 LBS. PER 1,000 S.Y.
BIRDFOOT TREFOIL MIXTURE - 2.0 LBS. PER 1,000 S.Y.
REEDS - 1.0 LBS. PER 1,000 S.Y.
APRIL 1 TO JUNE 15, OR AUGUST 1 TO SEPTEMBER 15

ALL DISTURBED LAWN AREAS - FORMULA B - 21 LBS. PER 1,000 S.Y.
PERENNIAL RYEGRASS MIXTURE - 1 LBS. PER 1,000 S.Y.
CREEPIER RED FESCUE - 6 LBS. PER 1,000 S.Y.
ANTHURUS BLUEGRASS MIXTURE - 11 LBS. PER 1,000 S.Y.
MARCH 15 TO JUNE 1, OR AUGUST 1 TO OCTOBER 15

WHEN PERMANENTLY STABILIZING THE AREAS AND SLOPES SURROUNDING THE PROPOSED SITE, USE THE BIRDFOOT TREFOIL MIXTURE OR ANY TYPE OF LEGUMES, WHICHEVER IS PREFERRED BY FORCE ESTATES.

UTILITY INSTALLATION NOTES

START INSTALLATION OF UTILITIES AT THE DOWNSTREAM END.

PLACE EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH. CAP PIPES AT END OF DAY TO PREVENT SEDIMENT FROM ENDING.

IF TRENCH DEWATERING REQUIRED, PUMP EFFLUENT MUST BE DISCHARGED THROUGH A SEDIMENT TRAPPING DEVICE.

BACKFILL TRENCH AT END OF DAY, STABILIZING DISTURBED AREAS AS SOON AS PRACTICAL.

CHAPTER 93. WATER QUALITY STANDARDS

AS LISTED IN CHAPTER 93, "WATER QUALITY STANDARDS", FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE RECEIVING WATER/WATERSHED CLASSIFICATION IS COLD WATER FISHES (CWF). THE RECEIVING STREAM FOR THE PROPOSED SITE IS THE SAINT JOHN'S CREEK.

SOILS

SOIL CHARACTERISTICS AND LIMITATIONS CAN BE FOUND FROM: "SOIL SURVEY OF LACKAWANNA AND VICINITY, PENNSYLVANIA", SOIL CONSERVATION SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE MARCH 1982. FIGURE 2 IS A SOIL MAP OF THE SITE INDICATING THE TYPES OF SOILS AND THEIR LOCATIONS. THE MAIN SOIL TYPES ON THIS SITE ARE AS FOLLOWS:

DA - DUMPS, MINE (NOT HYDRIC)

MINE DUMPS IN LACKAWANNA COUNTY CONSIST OF DARK, LIGHTLY CARBONACEOUS, ACID SHALE MATERIAL THAT WAS SEPARATED FROM COAL DURING THE COAL PROCESSING OPERATION. THIS MATERIAL CONTAINS LITTLE OR NO SOIL AND DOES NOT SUPPORT VEGETATION. AREAS ARE THROUGHOUT THE LACKAWANNA VALLEY. SLOPES RANGE FROM 0 TO 75 PERCENT BUT ARE DOMINANTLY 25 TO 75 PERCENT.

MINE DUMPS ARE COMMONLY NEAR UODORTHTHS, STRIP MINE SLOPS, BECAUSE OF THE NATURE OF THE SHALE MATERIAL, THEY ARE GENERALLY DRY. HAVE VERY LIMITED POTENTIAL. SOME AREAS HAVE BEEN LEVELED AND FILLED OVER FOR BUILDING SITES. NO CAPABILITY SUBCLASS OR WOODLAND ORINATION SYMBOL HAS BEEN ASSIGNED TO THIS MAP UNIT.

UA - UODORTHTHS, STRIP MINE (NOT HYDRIC)

THESE NEARLY LEVEL TO STEEP, DEEP, SOMEWHAT POORLY DRAINED TO WELL DRAINED SOILS ARE ON UPLAND RIDGES AND SLOPES. AREAS OF THESE SOILS ARE IRREGULAR IN SHAPE AND RANGE FROM ABOUT 3 TO MORE THAN 200 ACRES IN SIZE. THESE SOILS ARE AREAS THAT HAVE BEEN STRIP MINED.

THE SURFACE LAYER OF UODORTHTHS IS VERY CHANNERY OR CHANNERY SILT LOAM OR LOAM AS MUCH AS 4 INCHES THICK. THE SUBSTRATUM IS VERY CHANNERY OR CHANNERY LOAM OR SILT LOAM. ROCK FRAGMENTS MAKE UP 15 TO 50 PERCENT OF INDIVIDUAL HORIZONS.

INCLUDED WITH UODORTHTHS IN MAPPING ARE AREAS OF WELLSBORO, MORRIS, AND ARNOT SOILS AND AREAS OF URBAN LAND AND DUMPS, MINE. THE INCLUDED AREAS MAY BE LARGER THAN THOSE INCLUDED IN MOST OTHER MAP UNITS IN THIS SURVEY.

THESE SOILS ARE MODERATELY RAPIDLY TO SLOWLY PERMEABLE. AVAILABLE WATER CAPACITY IS MODERATE. BEDROCK IS GENERALLY BELOW A DEPTH OF 4 FEET. REACTION IS EXTREMELY ACID TO MEDIUM ACID THROUGHOUT.

VGB - VOLUSIA CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES (NOT HYDRIC)

THESE GENTLY SLOPING, SOMEWHAT POORLY DRAINED SOIL IS ON BROAD UPLANDS. SLOPES ARE GENERALLY UNIFORM. AREAS OF THIS SOIL ARE IRREGULAR IN SHAPE AND RANGE FROM ABOUT 3 TO MORE THAN 60 ACRES IN SIZE.

TYPICALLY, THE SURFACE LAYER OF THIS SOIL IS VERY DARK GRAYISH BROWN CHANNERY SILT LOAM ABOUT 4 INCHES THICK. THE SUBSOIL IS ABOUT 56 INCHES THICK. THE UPPER PART OF THE SUBSOIL, TO A DEPTH OF 12 INCHES, IS BROWN CHANNERY SILT LOAM; THE MIDDLE PART, TO A DEPTH OF 24 INCHES, IS MOTTLED, DARK GRAYISH BROWN AND BROWN, FIRM AND BRITTLE CHANNERY LOAM, AND THE LOWER PART, TO A DEPTH OF 60 INCHES, IS MOTTLED, BROWN, VERY FIRM AND FIRM, BRITTLE CHANNERY LOAM.

INCLUDED WITH THIS SOIL IN MAPPING ARE A FEW AREAS OF CHIFFAWA, MORRIS, AND MARION SOILS AND A FEW AREAS OF NEARLY LEVEL OR SLOPING VOLUSIA SOILS. ALSO INCLUDED ARE SCATTERED AREAS OF NORWICH SOILS.

THESE SOILS ARE SLOWLY OR VERY SLOWLY PERMEABLE. AVAILABLE WATER CAPACITY IS VERY LOW. SURFACE RUNOFF IS MEDIUM. THE SUBSOIL HAS A FRAGIPAN AT A DEPTH OF 12 TO 20 INCHES. THIS SOILS HAS A SEASONAL HIGH WATER TABLE AT A DEPTH OF 8 TO 12 INCHES. THESE SOILS ARE MOST PRODUCTIVE IN WET SEASONS. ROOTING DEPTH IS RESTRICTED BY FRAGIPAN. WHEN UNLIMED, THIS SOIL IS VERY STRONGLY ACID TO MEDIUM ACID IN THE SURFACE LAYER AND STRONGLY ACID TO SLIGHTLY ACID IN THE SUBSOIL.

EROSION AND SEDIMENT POLLUTION CONTROL NOTES (CONT.)

ON-SITE SOIL LIMITATIONS AND SOLUTIONS FOR CONSTRUCTION

1. CONSTRUCTION MATERIALS - ROADFILL

DISTURBED ON-SITE SOILS

RATING/LIMITATIONS

DA NONE PROVIDED
UA NONE PROVIDED
VGB POOR/FROST ACTION

ROAD FILL IS SOIL MATERIAL USED IN EMBANKMENTS FOR ROADS. SOILS USED FOR ROAD FILL SHOULD BE EASILY EXCAVATED AND HAVE GOOD WORKABILITY. THE LOAD SUPPORTING CAPACITY AND STABILITY OF ROAD FILL ARE IMPORTANT IN THE DESIGN AND CONSTRUCTION OF ROADS AND STREETS. THE CLASSIFICATION OF THE SOIL AND SOIL TEXTURE, DENSITY, SHRINK-SWELL POTENTIAL, AND FROST ACTION ARE INDICATORS OF TRAFFIC SUPPORTING CAPACITY. SOIL WEENESS, FLOODING, SLOPE, DEPTH TO BEDROCK OR VERY COMPACT LAYERS, AND CONTENT OF LARGE STONES AFFECT STABILITY AND EASE OF EXCAVATION.

FOR SOILS WITH A POOR RATING OR CONTAIN AN UNDESIRABLE PROPERTY FOR ROAD FILL, A SUITABLE SOIL CAN BE IMPORTED FROM AN OFFSITE SOURCE FROM AN AREA WITH AN APPROVED E&S PLAN. SOILS TO BE INSPECTED AND APPROVED BY A CERTIFIED CONSULTANT.

2. BUILDING SITE DEVELOPMENT-SHALLOW EXCAVATIONS

DISTURBED ON-SITE SOILS

RATING/LIMITATIONS

DA NONE PROVIDED
UA NONE PROVIDED
VGB SEVERE/WEETNESS

TRENCHING ACTIVITIES FOR PIPELINES, SEWER LINES AND OTHER UTILITIES IS INFLUENCED BY SOIL WEETNESS CAUSED BY THE SEASON HIGH WATER TABLE, SOIL TEXTURE AND STABILITY, DENSITY, BEDROCK, AND LARGE STONES.

SOLUTIONS FOR WEETNESS:

ONLY EXCAVATE FOR TRENCH IN MONTHS WHEN WATER TABLE IS LOW. IF THIS IS UNAVOIDABLE, THEN LINE TRENCH WITH WATERPROOF GEO-TEXTILE AND DEWATER TRENCH WITH A PUMP AND SEDIMENT FILTER BAGS.

SOLUTIONS FOR SOIL WITH LARGE AND SMALL STONES WHEN SOIL IS NEEDED FOR TRENCH BACKFILL:

A SUITABLE SOIL WILL HAVE TO BE IMPORTED FOR THE TRENCH BACKFILL FOR ALL UTILITIES.

3. PLACEMENT OF TOPSOIL FOR LANDSCAPING AND VEGETATION ESTABLISHMENT

TOPSOIL IS USED IN AREAS WHERE VEGETATION IS TO BE ESTABLISHED AND MAINTAINED. SUITABILITY IS AFFECTED MAINLY BY THE EASE OF WORKING AND THE ABILITY TO SUPPORT PLANT LIFE.

TOPSOIL MUST BE IMPORTED TO THE SITE FROM AN APPROVED VENDOR.

4. WATER MANAGEMENT - DRAINAGE

DISTURBED ON-SITE SOILS

RATING/LIMITATIONS

DA NOT PROVIDED
UA NOT PROVIDED
VGB WEETNESS/PERCS SLOWLY

THE SOILS SELECTED FOR THE BASINS, TRAPS AND EMBANKMENTS SHOULD HAVE A LOW SEEPAGE POTENTIAL, LOW PERMEABILITY, BE RESISTANT TO EROSION AND PIPING, AND HAVE FAVORABLE STABILITY, SHRINK-SWELL POTENTIAL, SHEAR STRENGTH, AND COMPACTION CHARACTERISTICS. SOILS TO BE INSPECTED AND APPROVED BY A CERTIFIED CONSULTANT.

ALL WORK TO BE PERFORMED ACCORDING TO CHAPTER 102 REGULATIONS.

EROSION AND SEDIMENT POLLUTION CONTROL NOTES

SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.

HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.

MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER.

STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RETENETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PREVENT EROSION, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOILD WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ. AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

THE SITE WILL BE CONSIDERED TO BE PERMANENTLY STABILIZED WHEN ALL PERMANENT CONTROL MEASURES/FACILITIES HAVE BEEN COMPLETED AND ARE FUNCTIONAL. TEMPORARY CONTROL MEASURES/FACILITIES REMOVED, AND UNIFORM EROSION RESISTANT PERENNIAL VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL BE A UNIFORM COVERAGE OR DENSITY OF 70% ACROSS THE DISTURBED AREA.

ANY WASTE MATERIAL FROM THE PROJECT SITE TO BE RECYCLED OR DISPOSED OF SHALL BE DONE SO IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS.

FILL BROUGHT TO THE SITE SHOULD BE FROM AN AREA WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.

ANY FILL OR MATERIAL BROUGHT TO THE SITE WILL BE PLACED OR INSTALLED IMMEDIATELY. NO TEMPORARY SOIL STOCKPILE OR STAGING AREA WILL BE USED.

ENVIRONMENTAL DUE DILLIGENCE INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSECTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. REGULATED FILL IS WASTE AND MUST BE HANDLED IN ACCORDANCE WITH DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 267 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

CLEAN FILL INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.

THE TOTAL AREA TO BE DISTURBED ON THIS PROJECT IS 11.76 ACRES.

UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDD, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

APPLICANTS AND/OR OPERATORS MUST USE ENVIRONMENTAL DUE DILLIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL.

THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED AND A COPY OF THE PLAN IS ON-SITE.

UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES AND MAINTAIN AND MAKE AVAILABLE TO THE LACKAWANNA CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND REESTABLISHMENT SHALL BE PERFORMED IMMEDIATELY.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.

BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE LACKAWANNA CONSERVATION DISTRICT.

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ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.

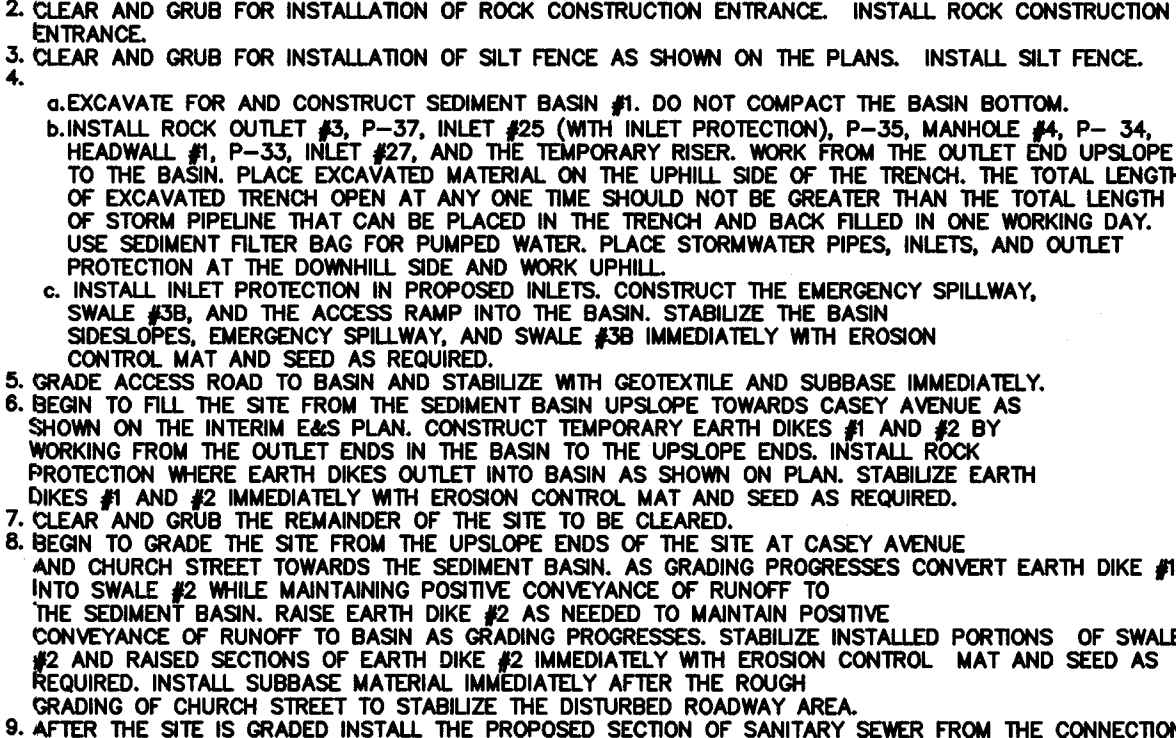
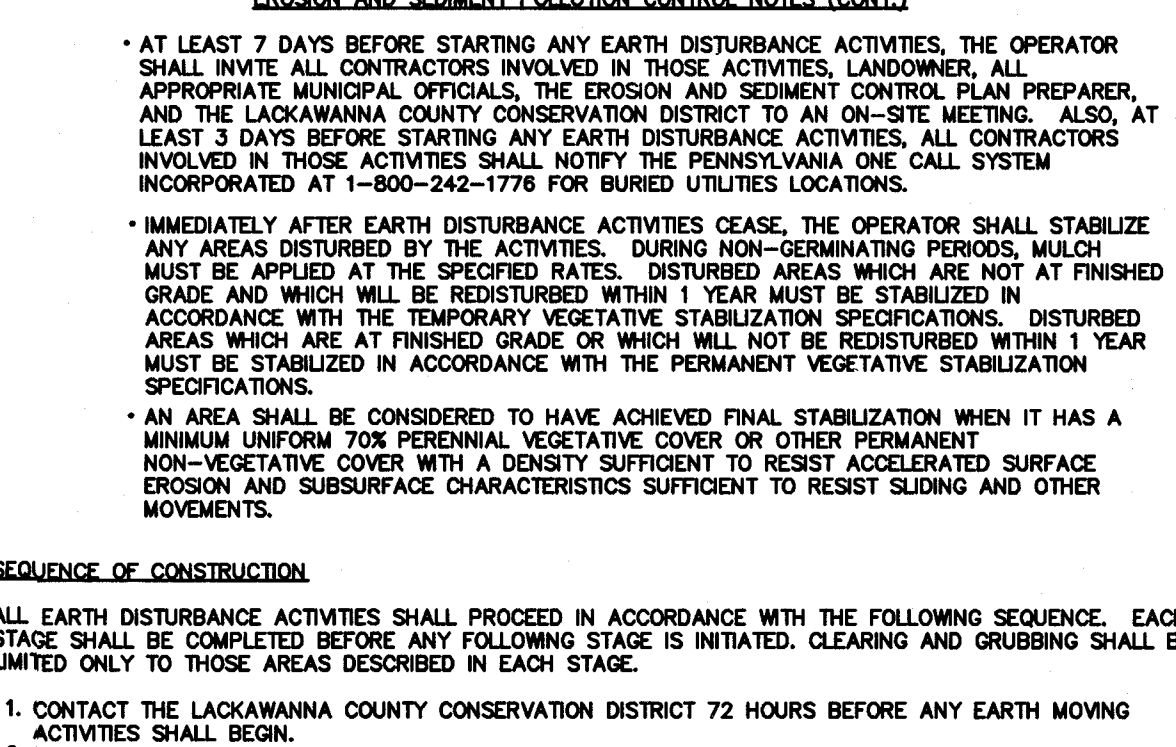
THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL, RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART G, PROTECTION OF NATURAL RESOURCES, ARTICLE II, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE ANY DISTURBANCE BEGINS WITHIN THE TEMPORARY AREAS.

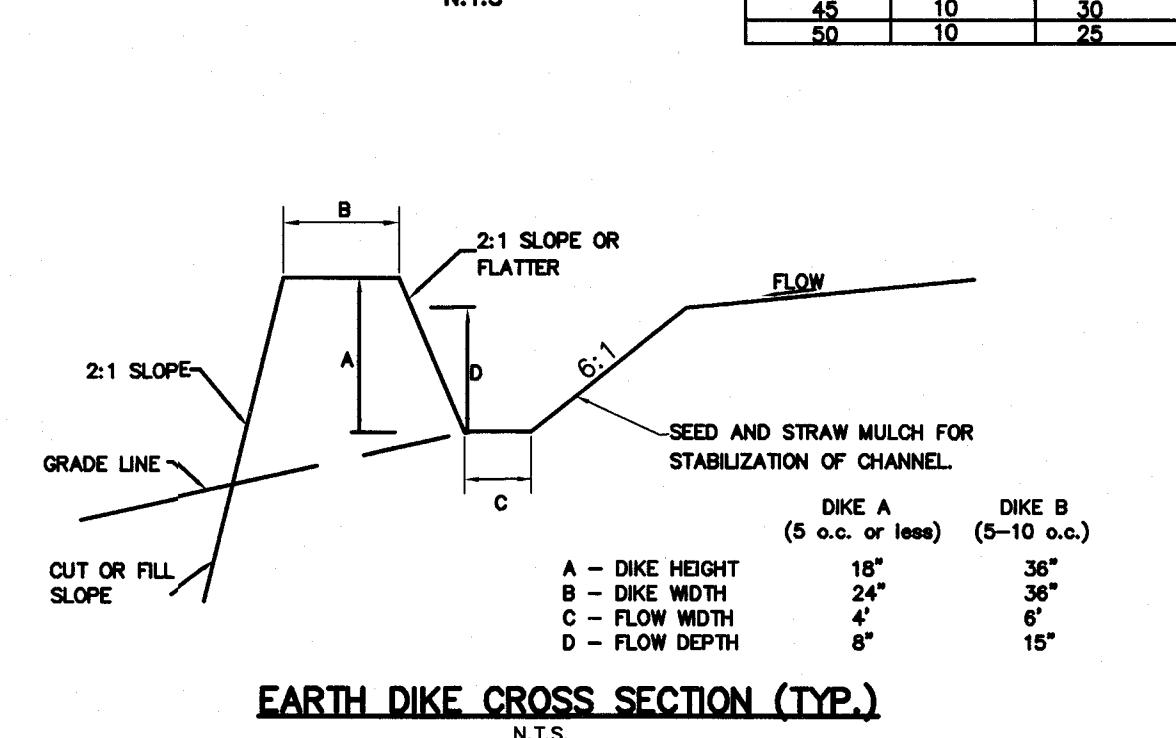
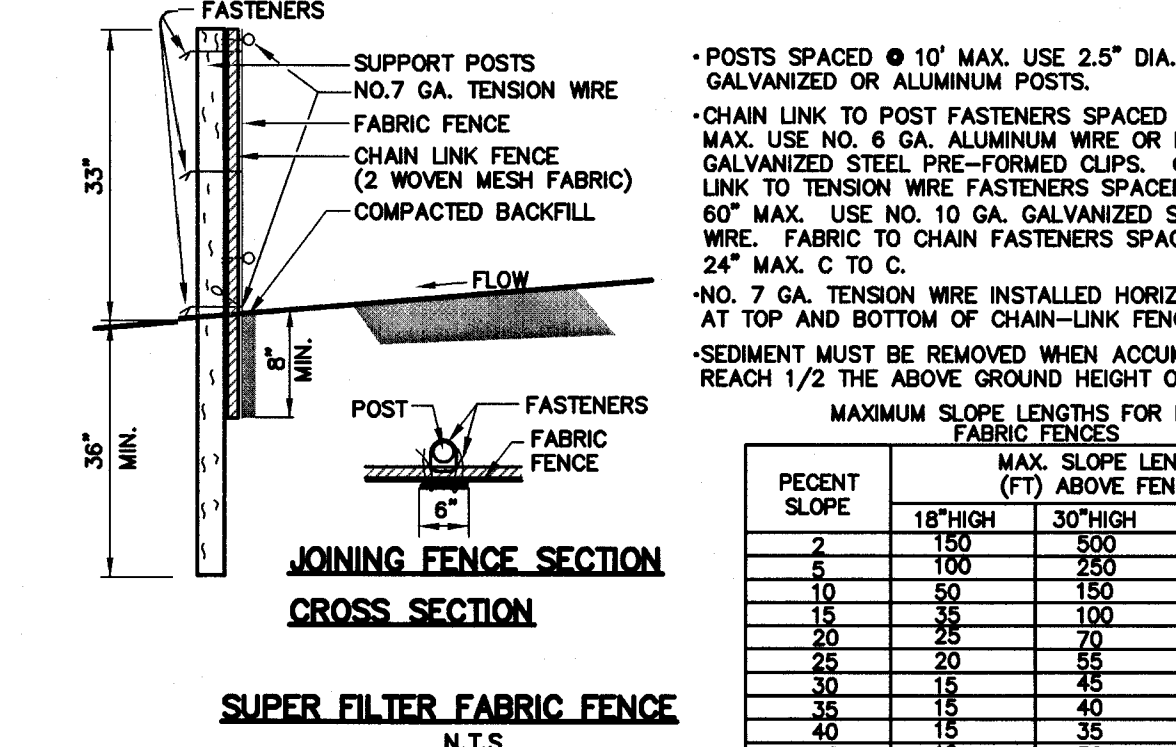
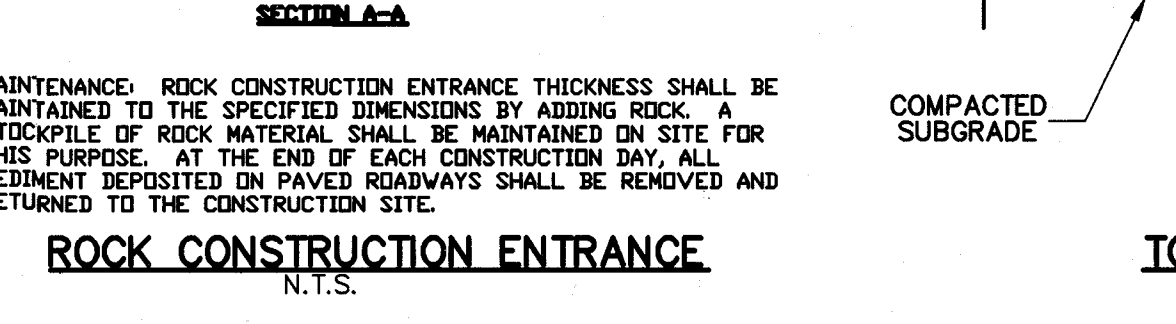
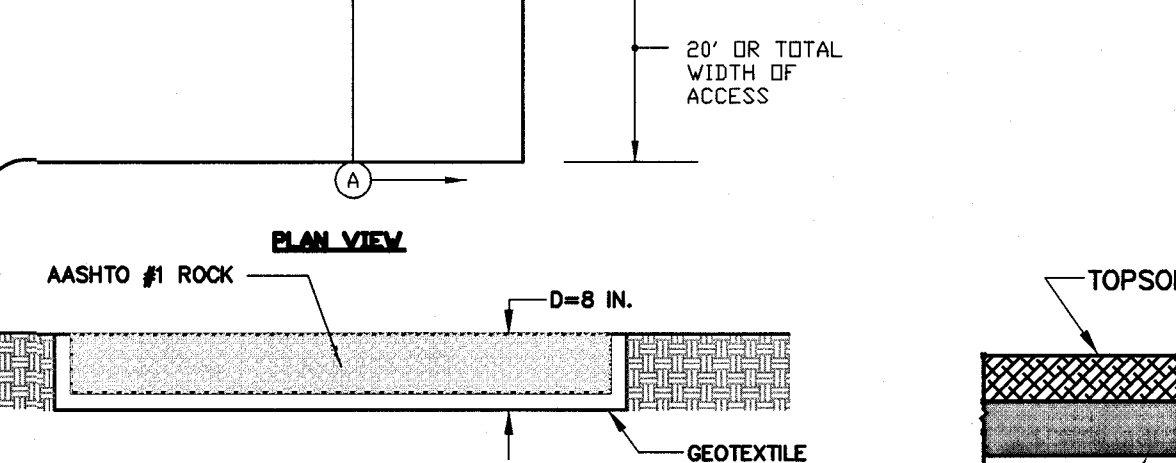
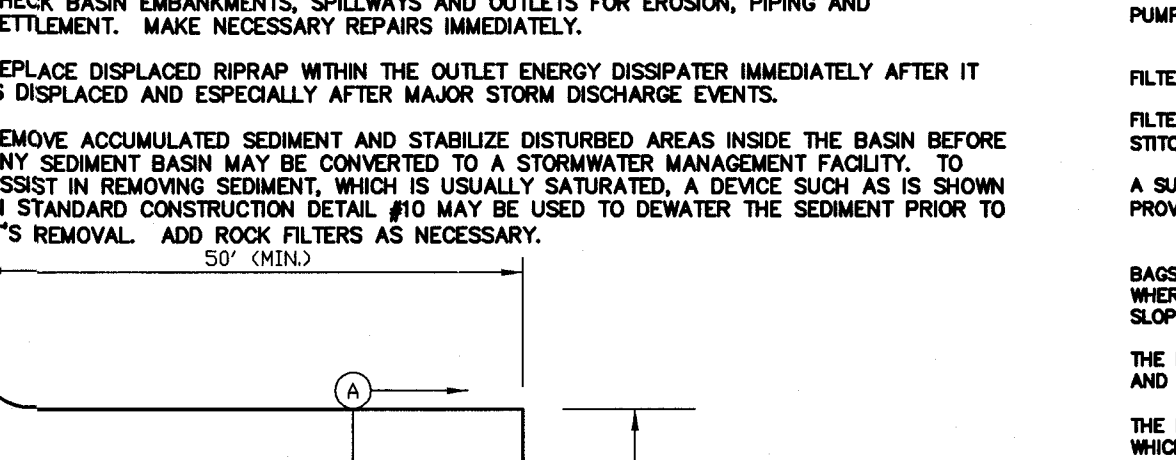
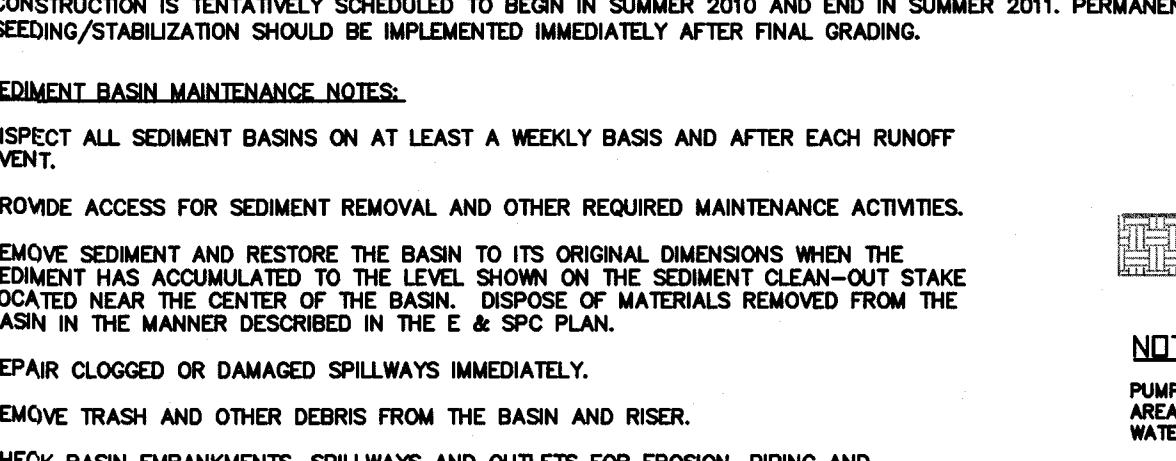
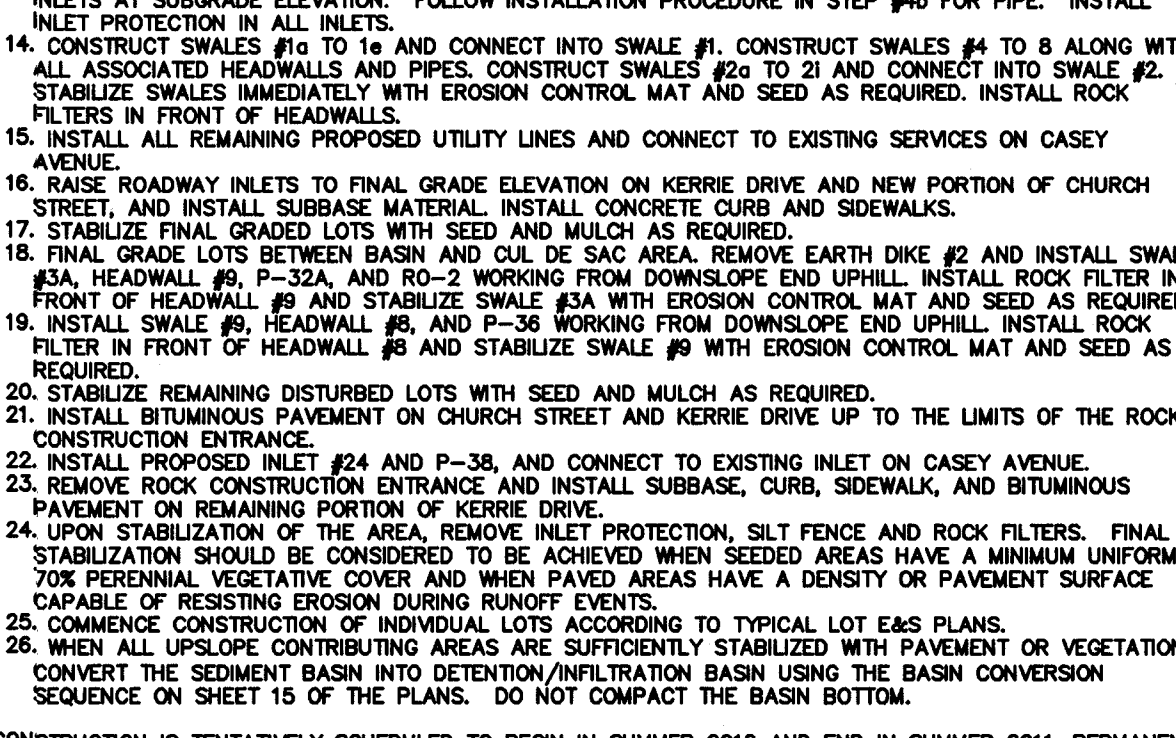
AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP'S CONTROLS MUST BE REMOVED, AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.

THE DEVELOPER, FORCE ESTATES, IS RESPONSIBLE TO ENSURE THAT ALL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE IMPLEMENTED FOR ANY EARTH DISTURBANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 102 - EROSION AND SEDIMENT CONTROL.



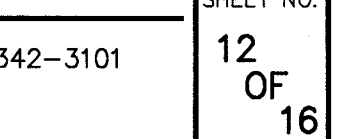
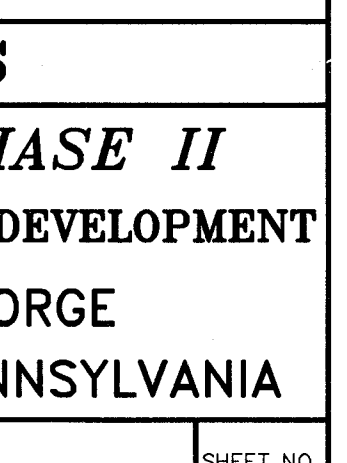
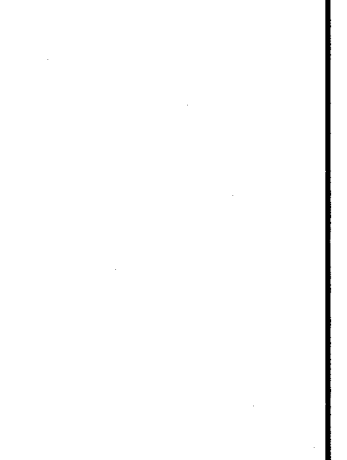
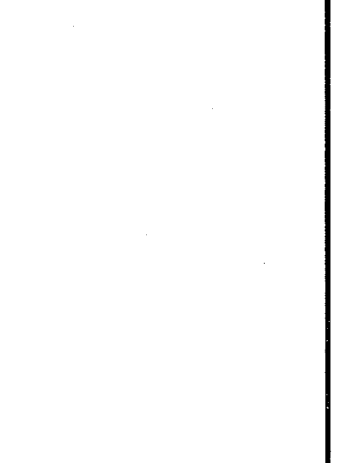
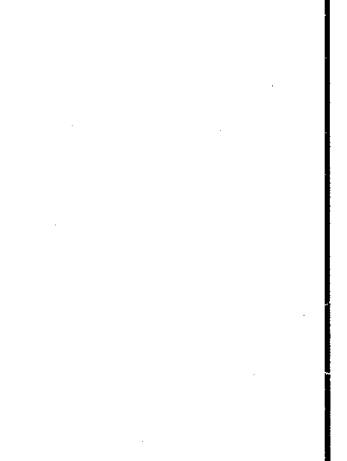
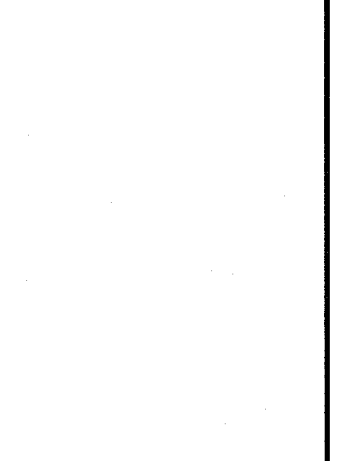
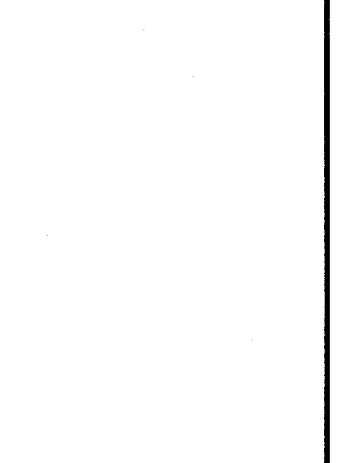
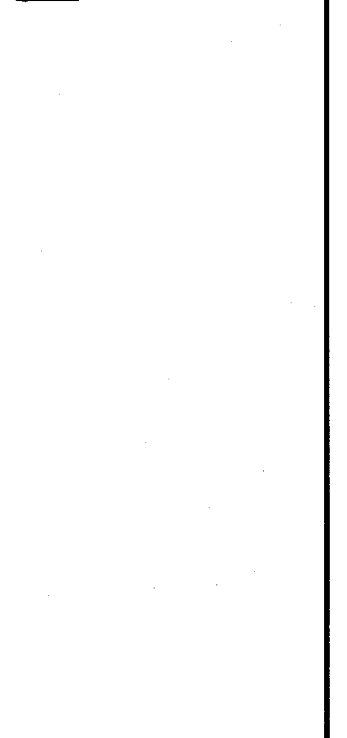
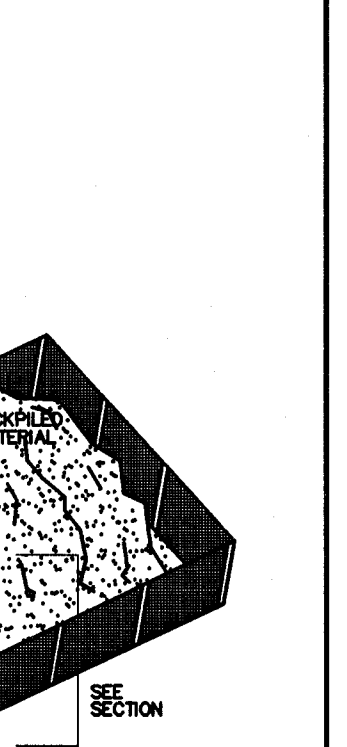
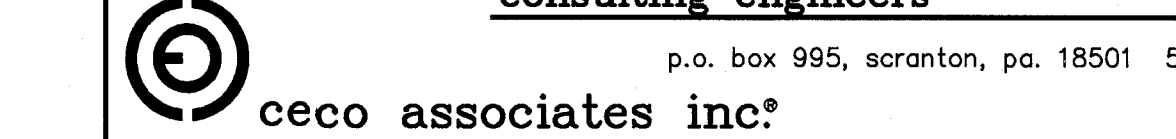
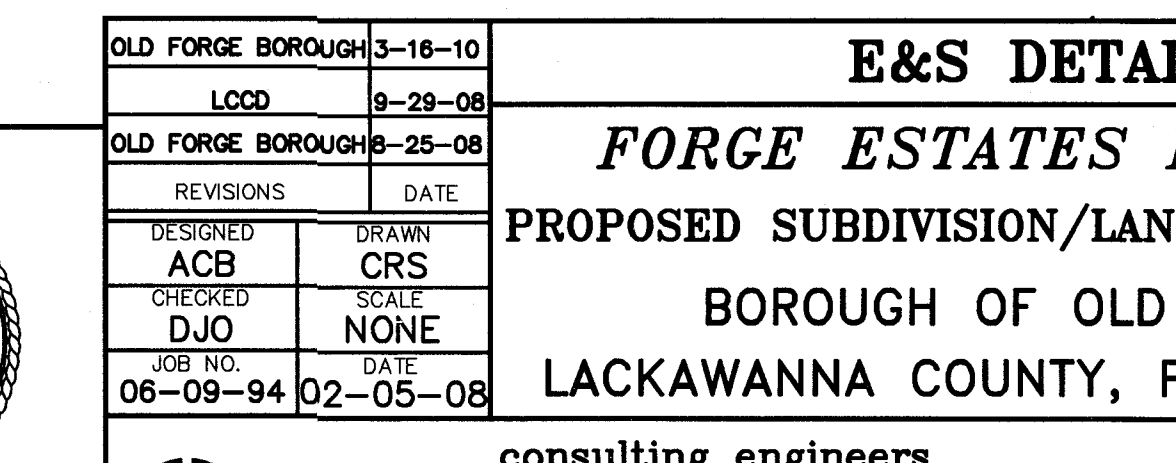
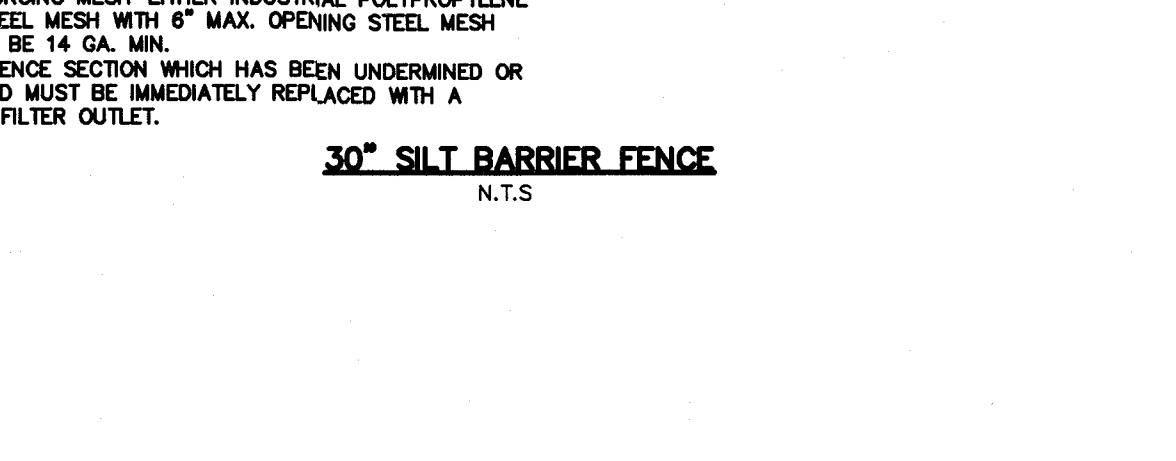
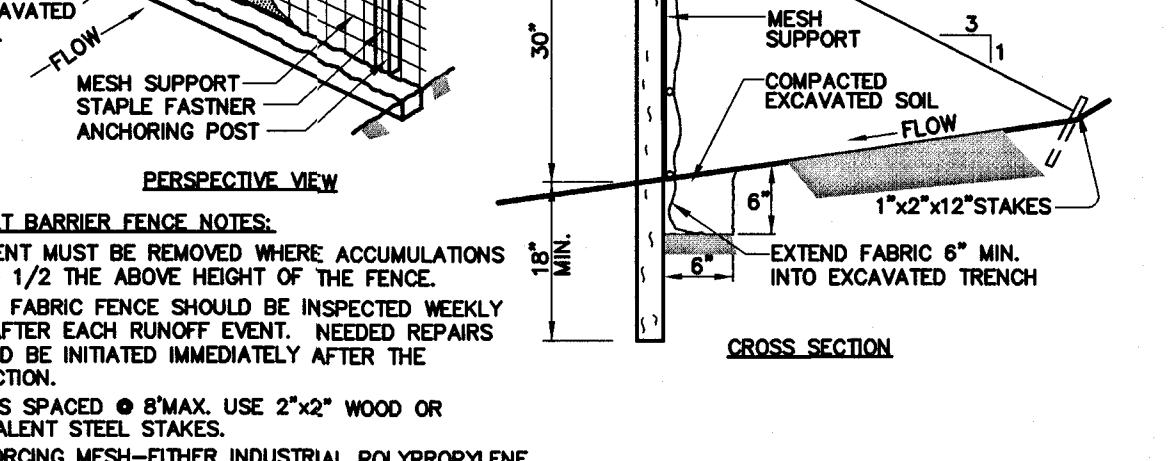
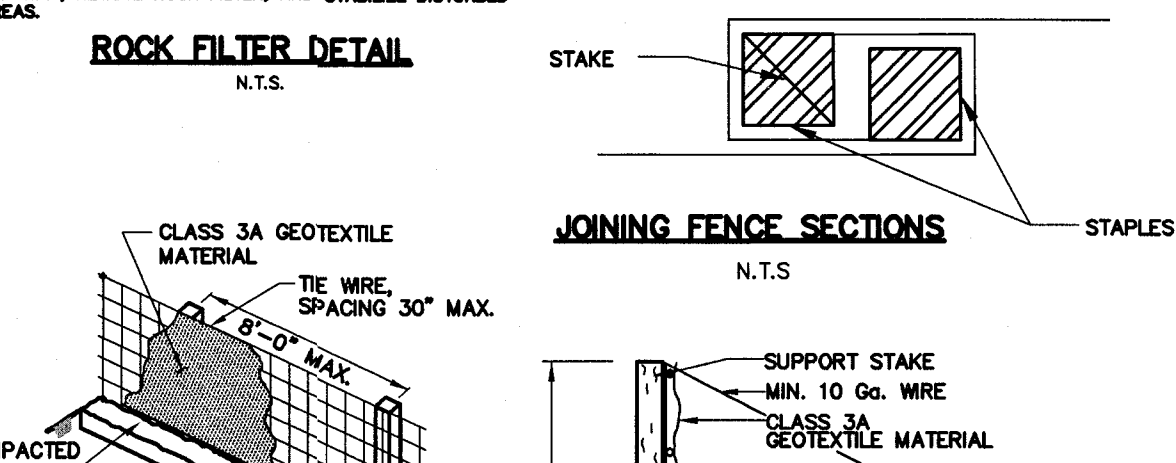
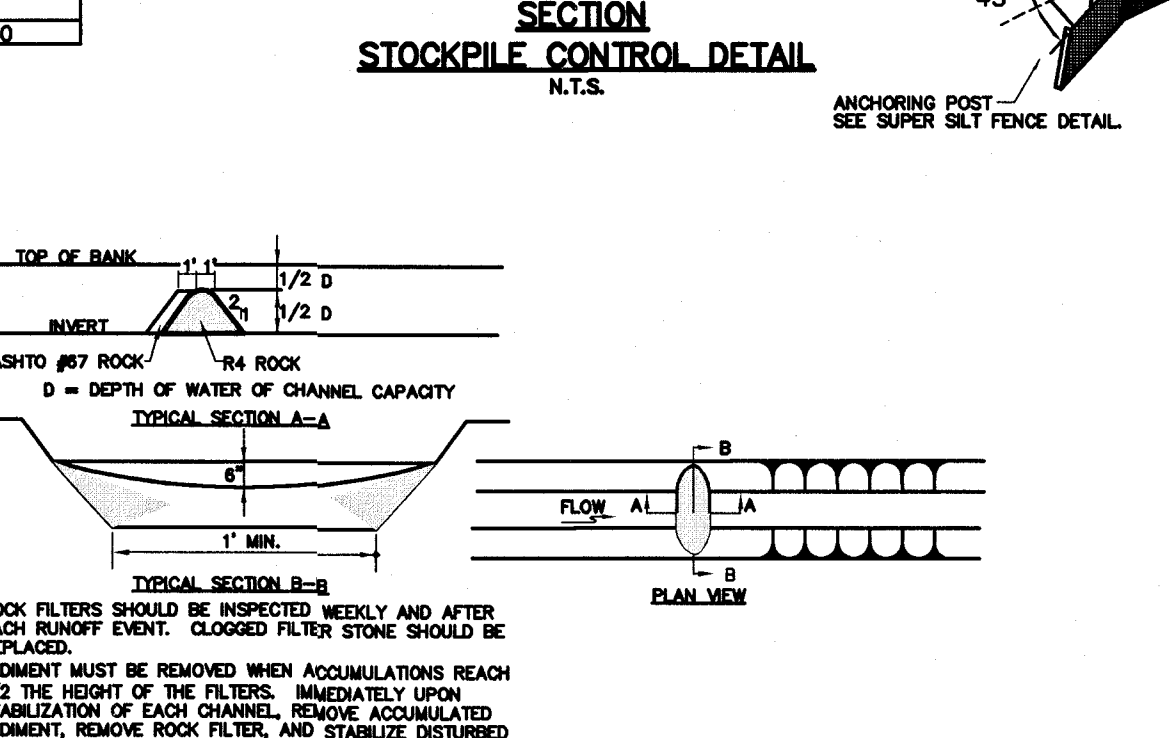
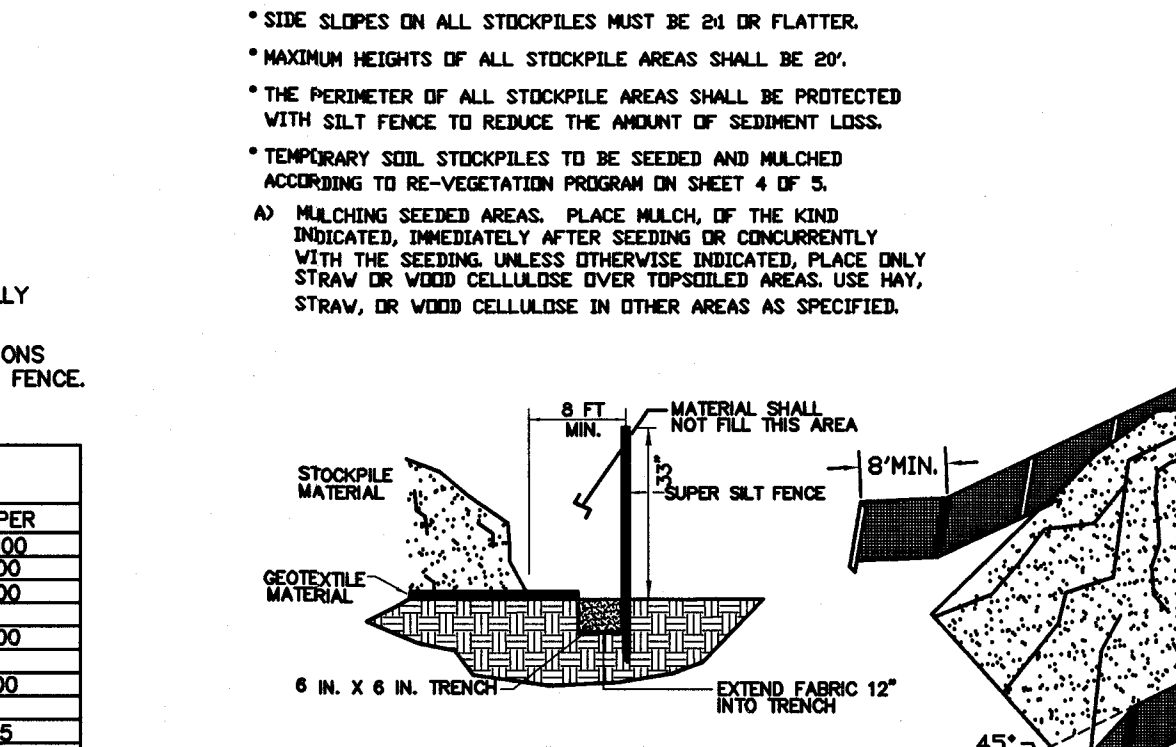
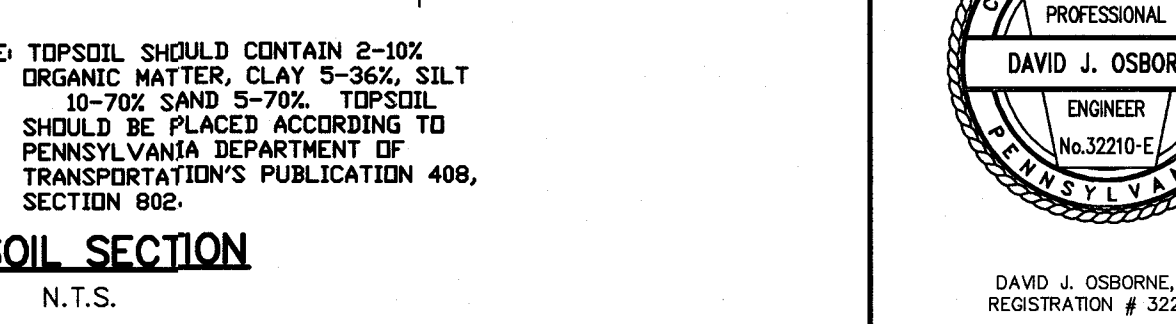
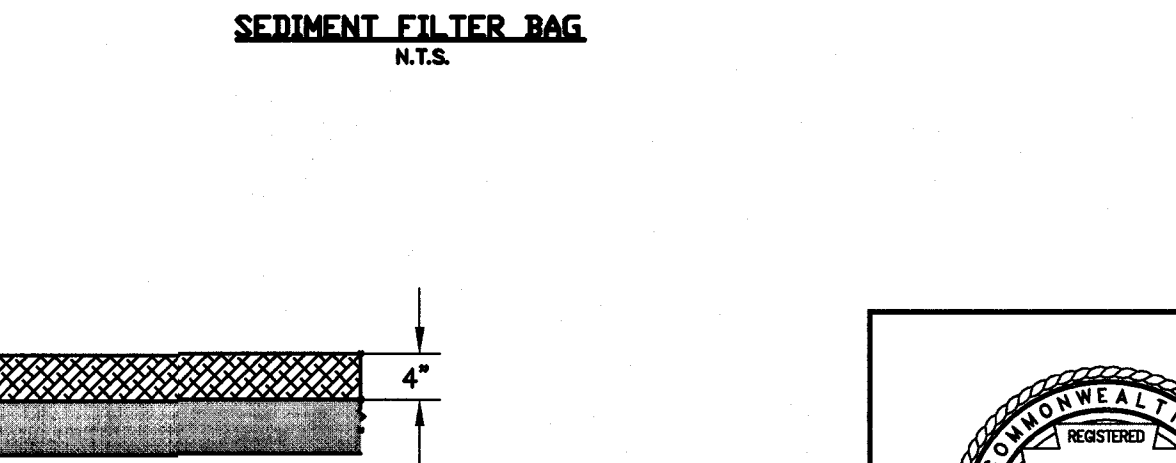
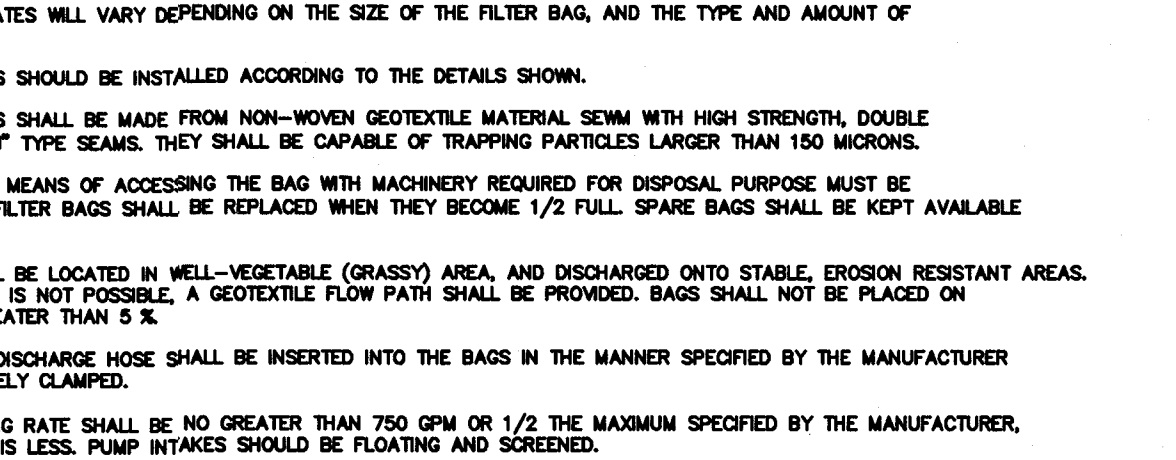
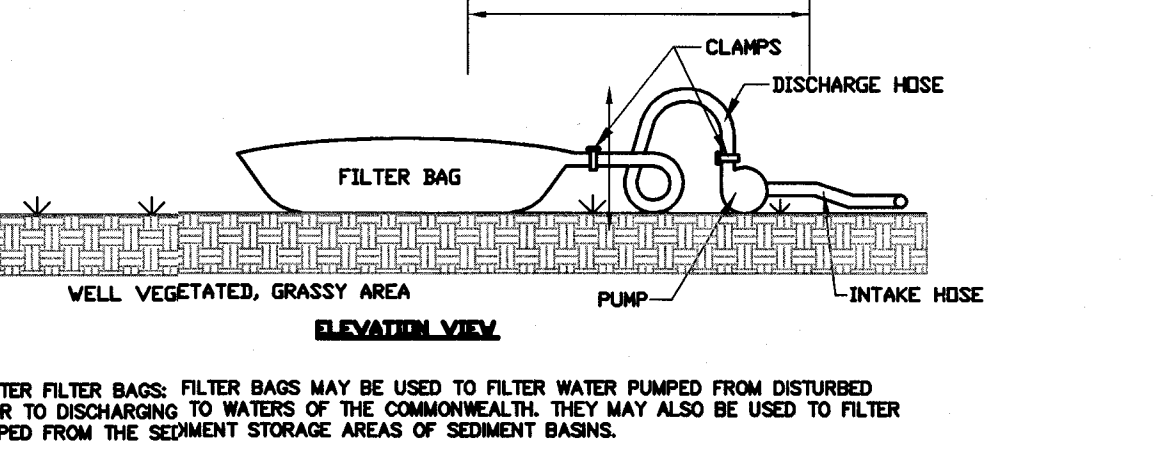
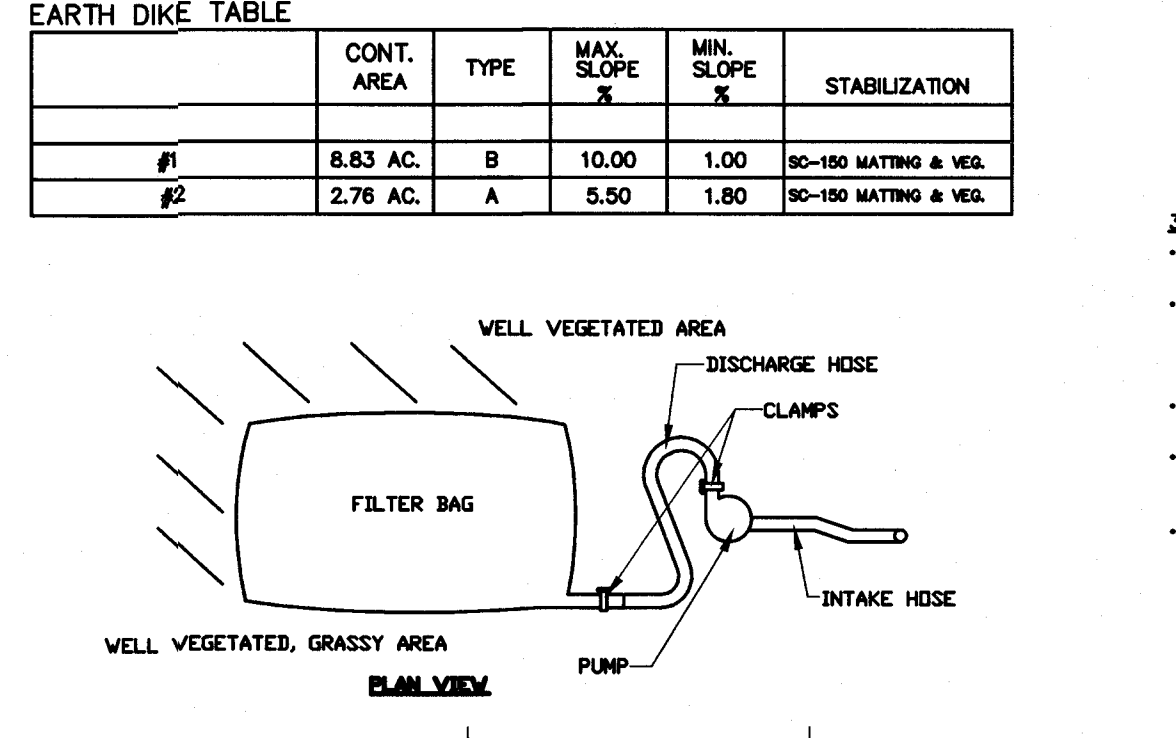
EARTH DIKE TABLE

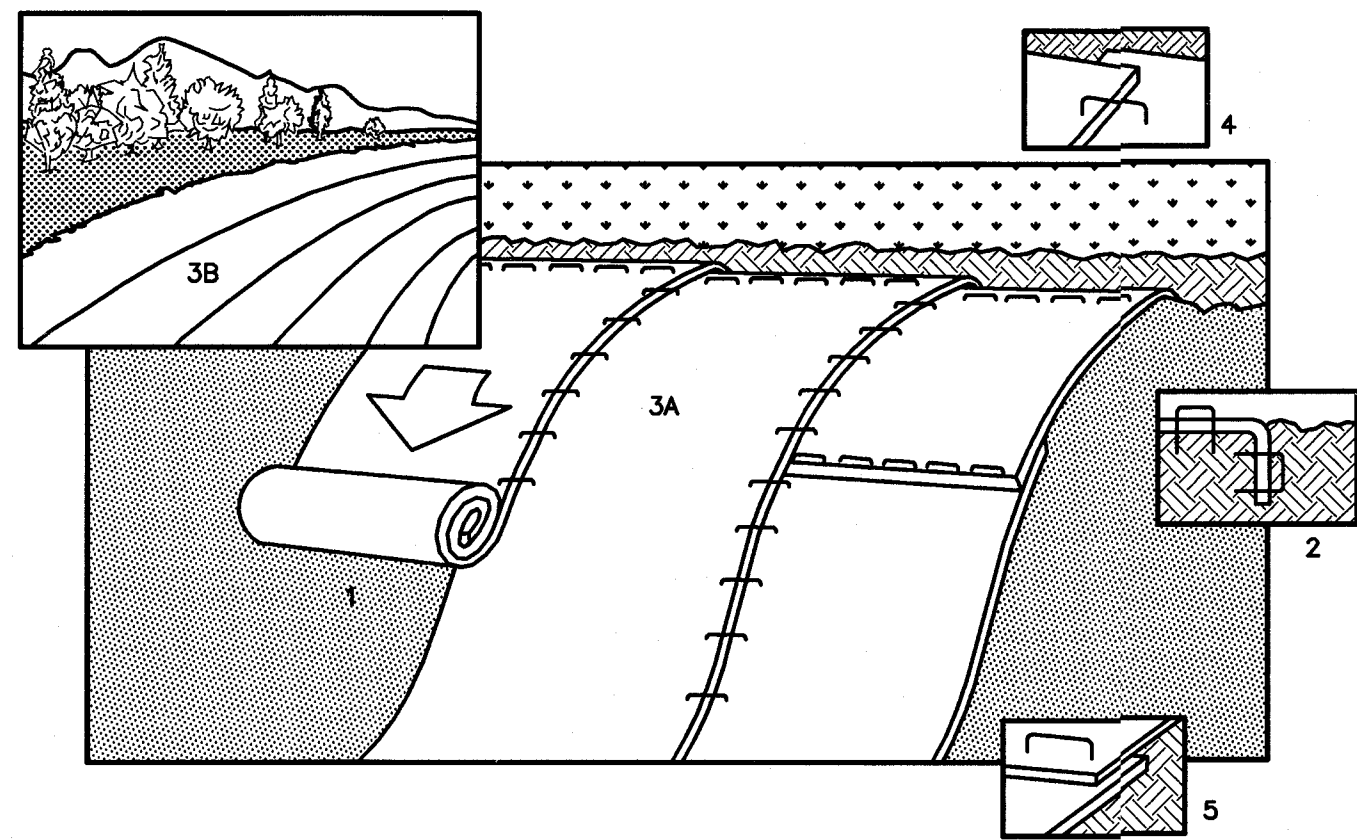
	CONT. AREA	TYPE	MAX. SLOPE %	MIN. SLOPE %	STABILIZATION
#1	8.63 AC.	B	10.00	1.00	50-150 MATTING & VEG.
#2	2.76 AC.	A	5.50	1.80	50-150 MATTING & VEG.



EARTH DIKE TABLE

	CONT. AREA	TYPE	MAX. SLOPE %	MIN. SLOPE %	STABILIZATION
#1	8.63 AC.	B	10.00	1.00	50-150 MATTING & VEG.
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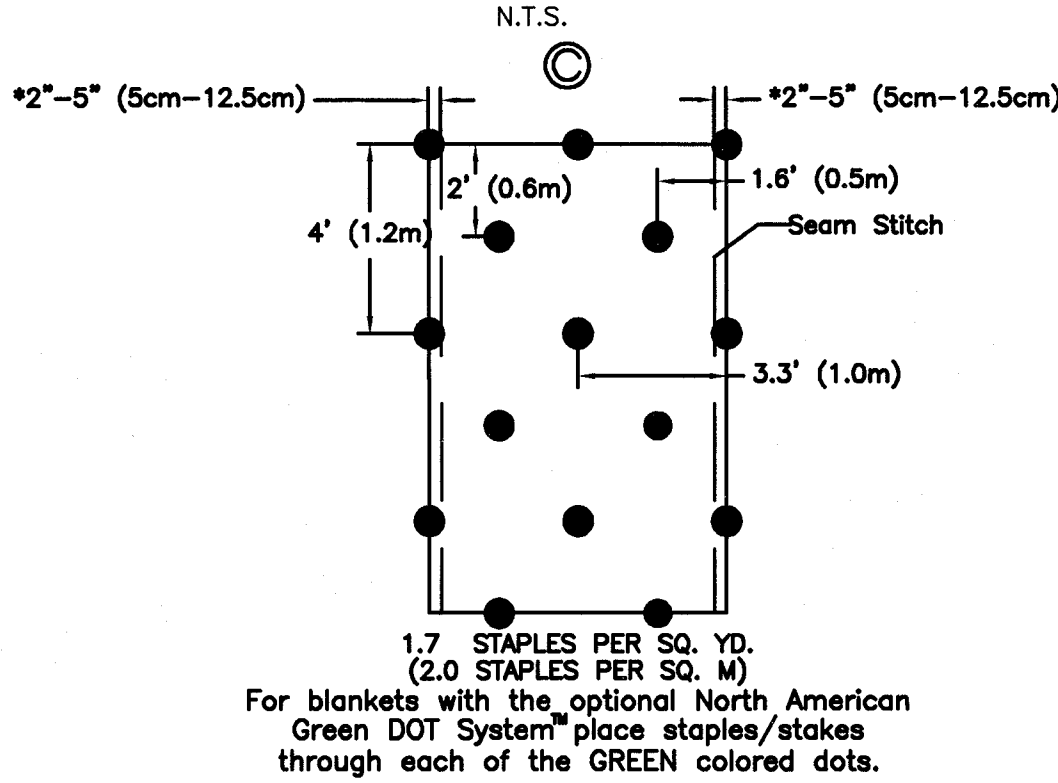


NOTE: MATTING IS TO BE USED ON ALL PROPOSED SLOPES GREATER THAN 2:1.

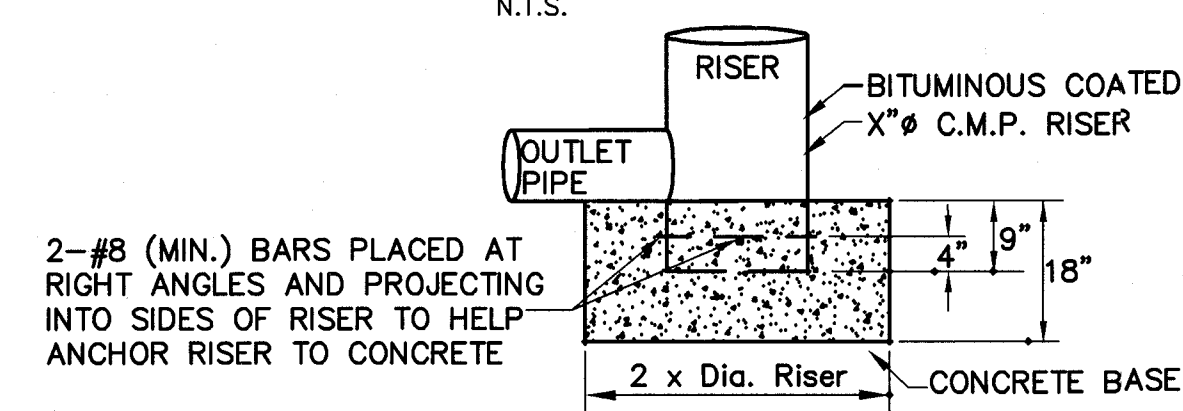
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL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

USE PERMANENT EROSION CONTROL TURF REINFORCEMENT MAT SC 150 BY NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47711
USA 1-800-772-2040 CANADA 1-800-448-2040
(OR EQUAL)

SLOPE MATTING INSTALLATION DETAIL

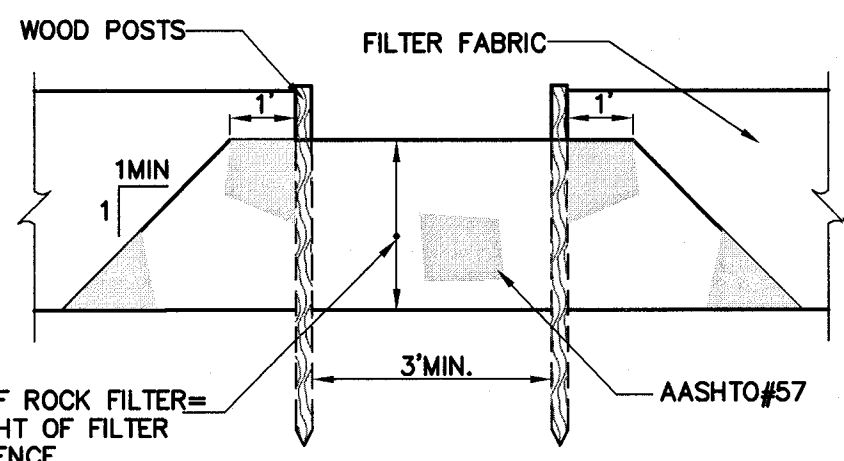


FOR SLOPES 2:1 OR GREATER



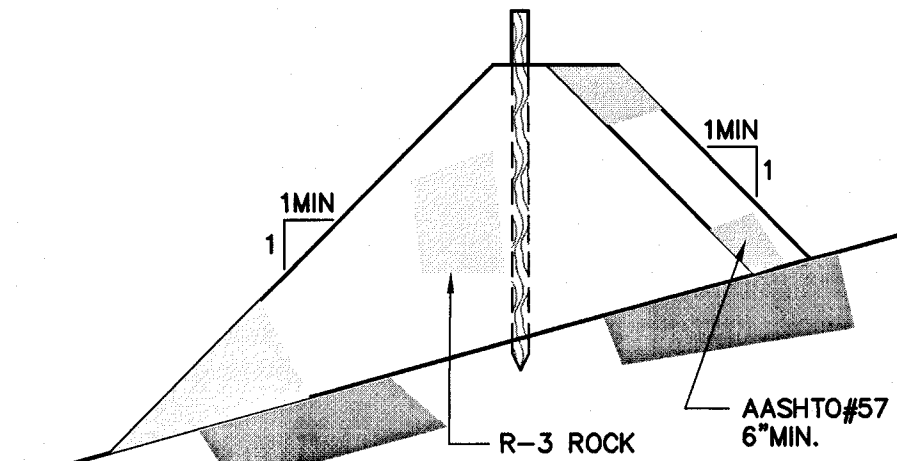
THE CONCRETE BASE SHALL BE POURED IN SUCH A MANNER TO INSURE THAT THE CONCRETE FILLS THE BOTTOM OF THE RISER TO THE INVERT OF THE OUTLET PIPE TO PREVENT THE RISER FROM BREAKING AWAY FROM THE BASE.

RISER BASE DETAIL



UP-SLOPE FACE

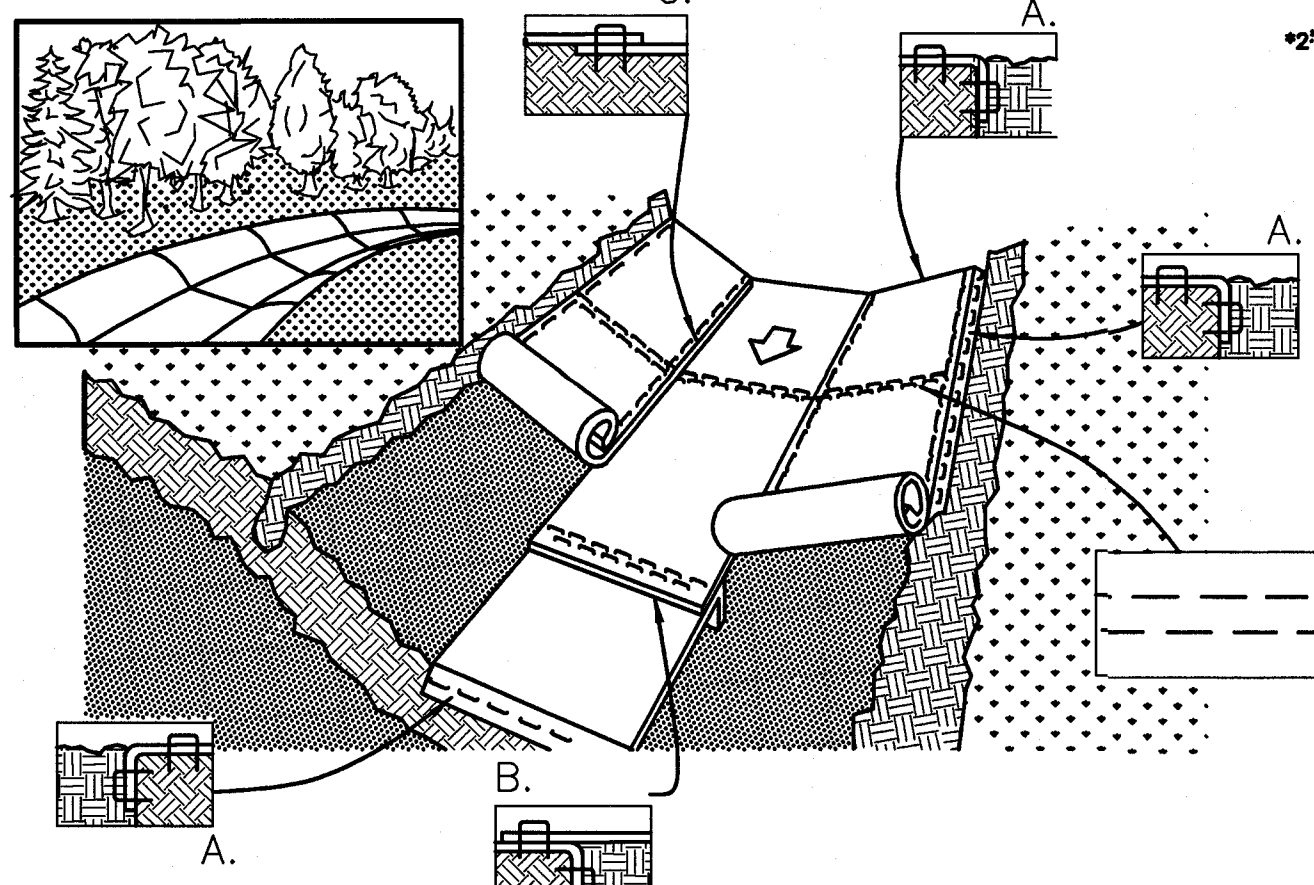
SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. ANY SECTION OF ROCK FILTER BERM THAT HAS BEEN OVERTOPPED OR UNDERMINED SHOULD BE IMMEDIATELY REPLACED WITH R-4 ROCK AND AASHTO #57 STONE.



OUTLET CROSS-SECTION

ROCK FILTER OUTLET

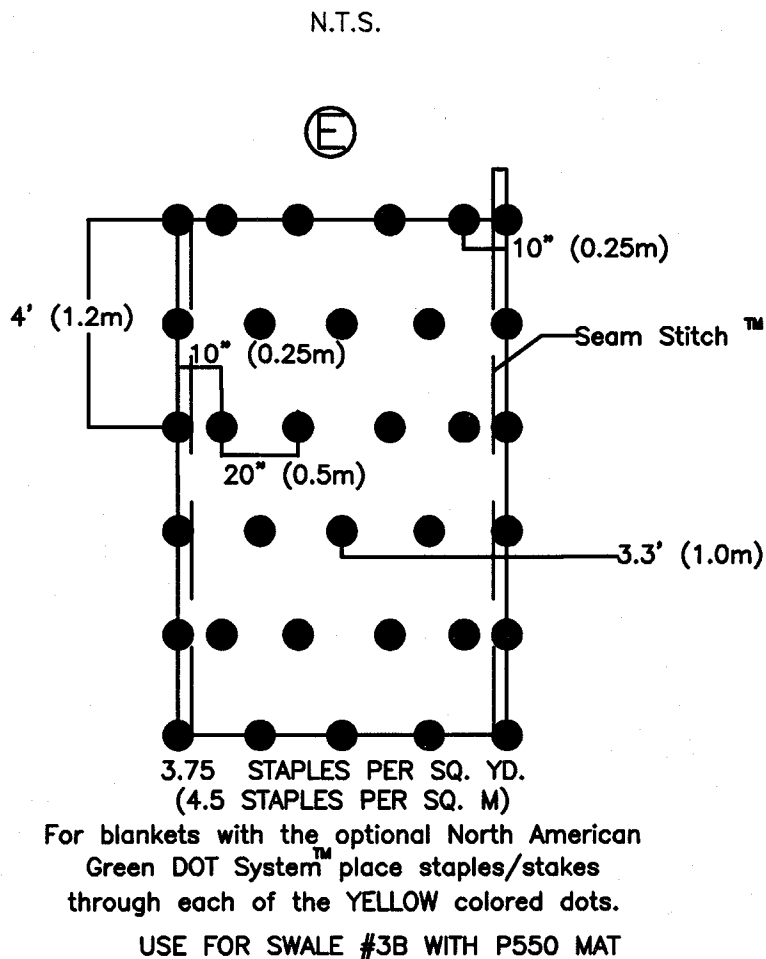
N.T.S.



- A. BURY THE TOP, SIDES, AND TERMINAL END OF THE MATTING STRIPS IN A TRENCH 6 INCHES OR MORE IN DEPTH. TAMP TRENCH FULL OF SOIL SECURE WITH ROW OF STAPLES, 6" SPACING, 4" DOWN FROM TRENCH.
- B. TRENCH, BURY AND STAPLE UPPER END OF LOWER STRIP AS INDICATED ABOVE. OVERLAP END OF TOP STRIP 4 INCHES AND STAPLE.
- C. 4 INCH OVERLAP OF MATTING STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. STAPLE 18 INCHES ON CENTER.
- D. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4 INCHES APART OVER ENTIRE WIDTH OF CHANNEL. PLACE A SECOND ROW 4 INCHES BELOW FIRST ROW.

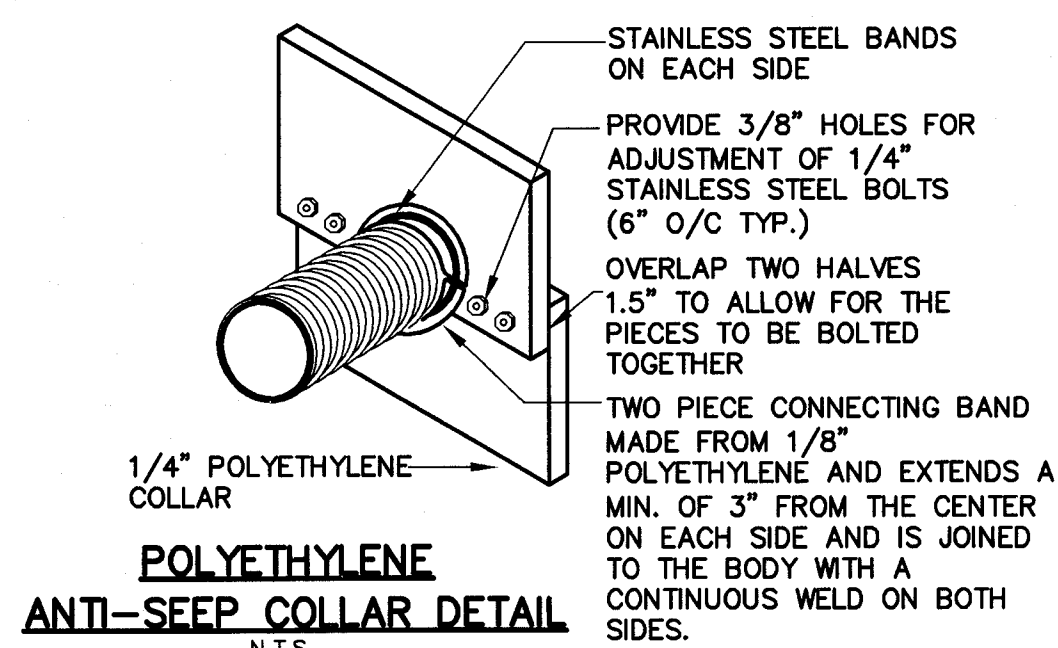
EROSION CONTROL MATTING INSTALLATION FOR CHANNELS

NORTH AMERICAN GREEN



FOR EMERGENCY SPILLWAY & SWALE #3B

N.T.S.



POLYETHYLENE ANTI-SEEP COLLAR DETAIL

N.T.S.

TEMPORARY ITEMS: ANTI-VORTEX DEVICE & TRASH RACK

TEMPORARY 48" Ø RISER PIPE WITH (7) 1" DIA. HOLES STARTING AT ELEV. 974.00 AND CONTINUING EVERY 1/2 FEET UP THE RISER TO ELEV. 976.50

TEMP. 6" DIA. PERF. PVC PIPE 10 FOOT LONG COVERED WITH CLASS 3 GEOTEXTILE MATERIAL AND 6" DEPTH OF #57 ROCK

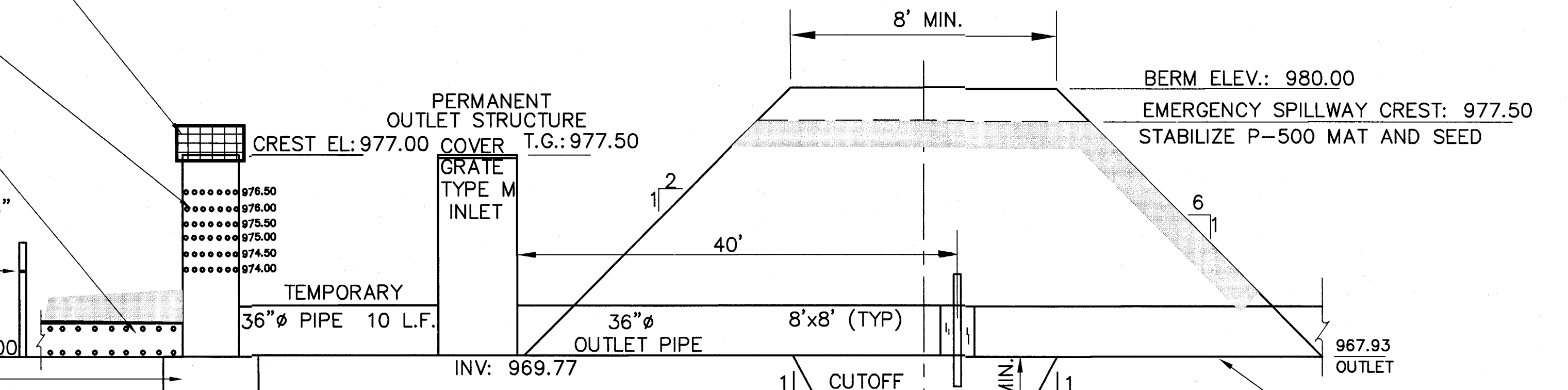
CLEAN-OUT ELEV. 973.50:
MARK ELEV. ON WOODEN STAKE OR REINF. BAR

BASIN BOTTOM ELEV.: 973.00

RISER BASE (SEE DETAIL)

NOTE:
ALL TEMPORARY ITEMS SHALL REMAIN IN PLACE UNTIL ALL UPLAND AREAS ARE STABILIZED.

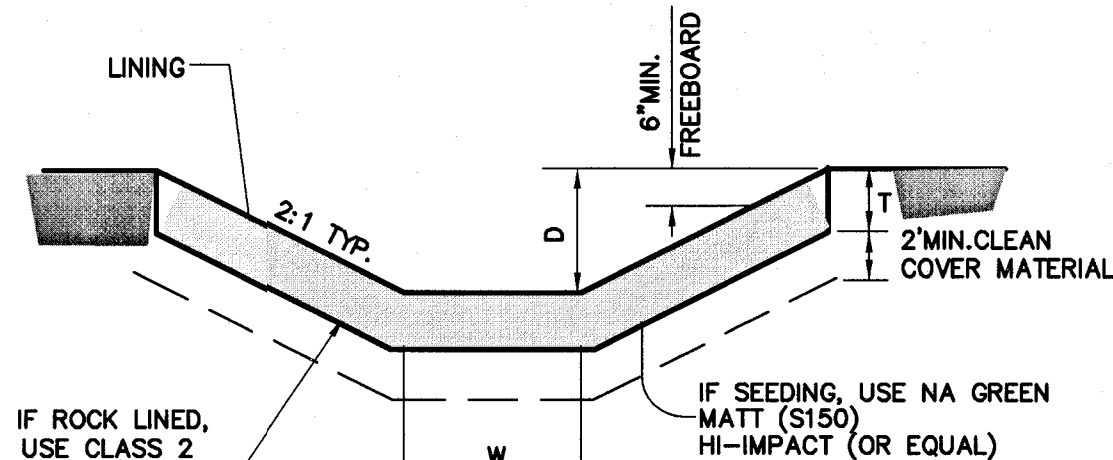
CLEAN OUT STAKES MUST BE PLACED AT HALF DISTANCES FROM POINTS OF CONCENTRATED INFLOWS TO TEMPORARY RISERS. WHEN SEDIMENT HAS ACCUMULATED TO CLEAN OUT ELEVATIONS ON ANY STAKE, IT MUST BE REMOVED TO RESTORE BASIN CAPACITIES.



BASIN PROFILE

N.T.S.

- THE BASIN EMBANKMENT SHALL BE CONSTRUCTED OF A SELECT EARTH FILL MATERIAL WHICH HAS AN OPTIMUM MOISTURE CONTENT AND MAXIMUM DRY DENSITY AS PER ASTM D-698 STANDARDS. THE SOIL SHALL BE TESTED BY A QUALIFIED GEOTECHNICAL CONSULTANT AND THE REPORT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF BASIN EMBANKMENTS.

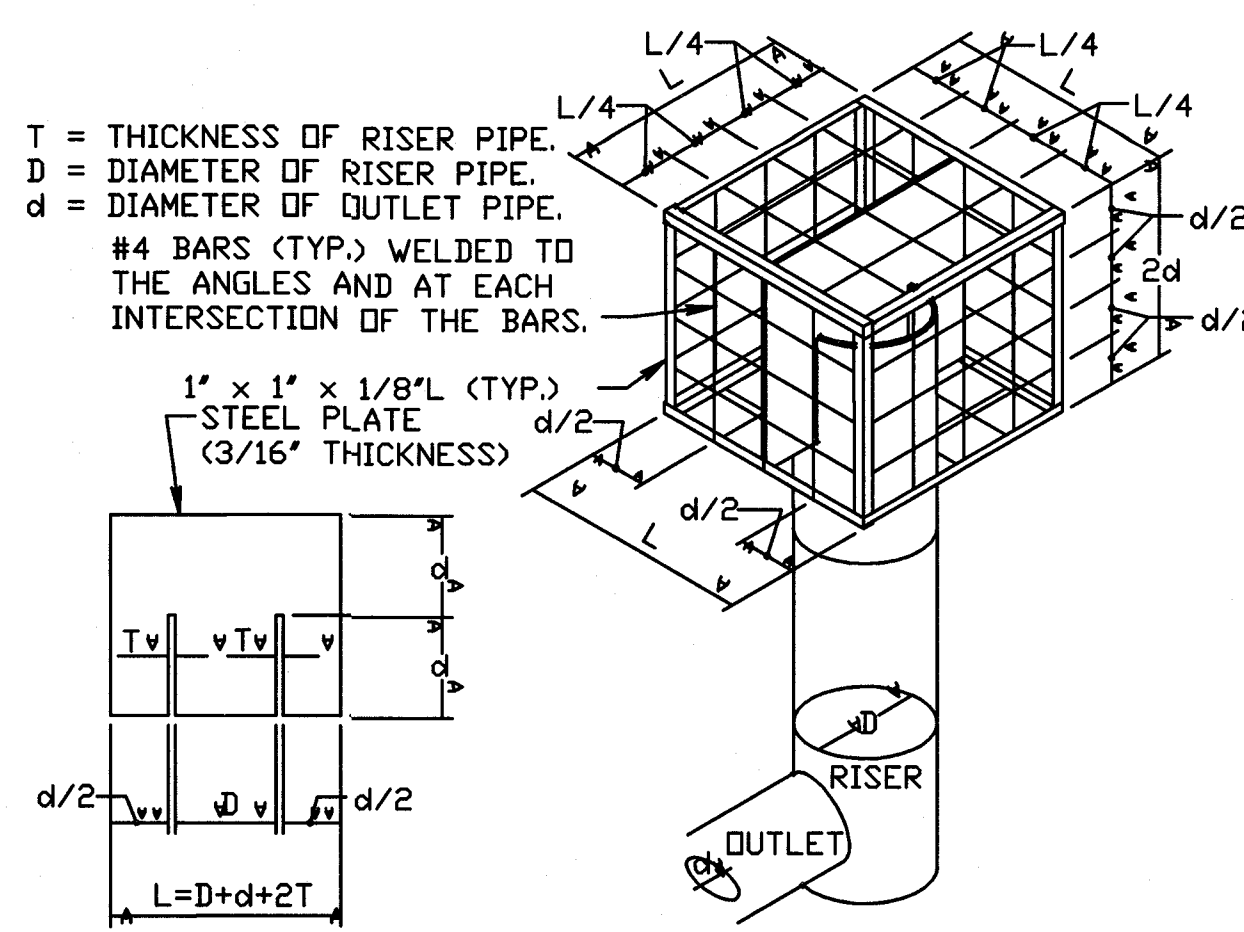


TYPICAL DITCH SECTION

N.T.S.

DITCH SCHEDULE					
DITCH NUMBER	TEMP. LINING	PERM. LINING	W(FT)	D(FT)	SLOPE(FT/FT)
SWALE #1	C125	GRASS	2.00	1.75	0.086*
SWALE #1a	SC150	GRASS	0.00	1.50	0.036
SWALE #1b	SC150	GRASS	0.00	2.00	0.009
SWALE #1c	SC150	GRASS	0.00	2.00	0.018
SWALE #1d	SC150	GRASS	0.00	2.00	0.018
SWALE #1e	SC150	GRASS	0.00	2.00	0.009
SWALE #2	SC150	GRASS	2.50	1.25	0.078*
SWALE #2a	SC150	GRASS	0.00	1.50	0.027
SWALE #2b	SC150	GRASS	0.00	1.50	0.027
SWALE #2c	SC150	GRASS	0.00	2.00	0.018
SWALE #2d	SC150	GRASS	0.00	1.50	0.027
SWALE #2e	SC150	GRASS	0.00	1.50	0.027
SWALE #2f	SC150	GRASS	0.00	2.00	0.018
SWALE #2g	SC150	GRASS	0.00	2.00	0.018
SWALE #2h	SC150	GRASS	0.00	1.50	0.027
SWALE #2i	SC150	GRASS	0.00	1.50	0.043
SWALE #3A	SC150	GRASS	1.00	1.50	0.040*
SWALE #3B	P-550 (UNV.)	P-550 (VEG.)	3.50	2.00	0.065
SWALE #3a	SC150	GRASS	0.00	1.50	0.058
SWALE #4	SC150	GRASS	0.00	2.00	0.018
SWALE #5	SC150	GRASS	0.00	1.50	0.040
SWALE #6	SC150	GRASS	0.00	1.50	0.042
SWALE #7	SC150	GRASS	0.00	1.50	0.032
SWALE #8	SC150	GRASS	0.00	1.50	0.022
SWALE #9	SC150	GRASS	0.00	1.50	0.068
EMERGENCY SPILLWAY	P-550 (UNV.)	P-550 (VEG.)	50.00	2.50	0.167

*MAXIMUM SLOPE OF SWALE

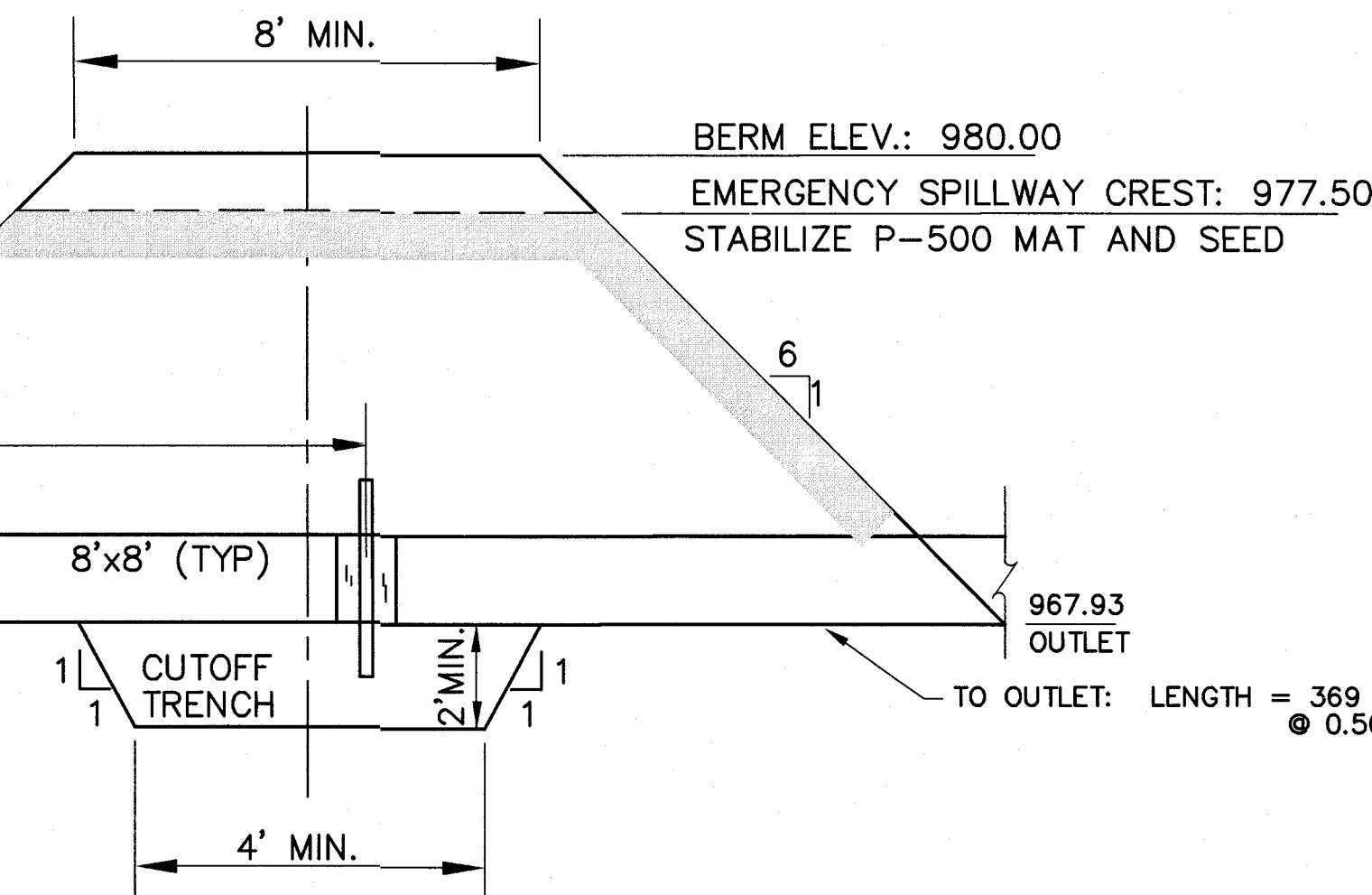


ANTI-VORTEX DEVICE

TRASH RACK ANTI-VORTEX DEVICE

N.T.S.

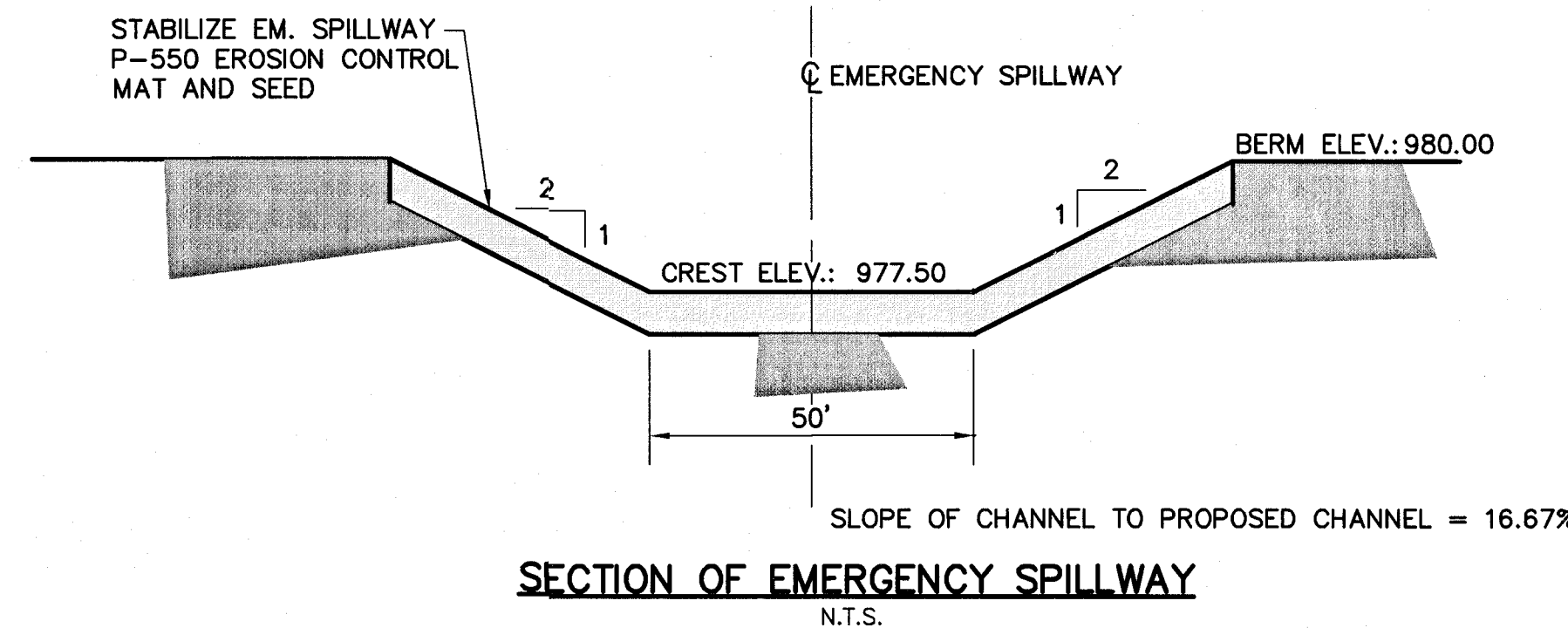
SEDIMENT BASIN #1 DETAILS



- THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED UNLESS EXCAVATED INTO EXISTING GROUND. THE FILL WILL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DENSITY OBTAINED FROM COMPACTION TESTS PERFORMED BY THE APPROPRIATE METHOD IN ASTM D698.
- WATER TIGHT SEALS MUST BE PROVIDED FOR ALL BASIN PIPE JOINT CONNECTIONS.
- BASIN SIDE SLOPES AND BOTTOM SHALL BE STABILIZED WITH SEED AND MULCH.

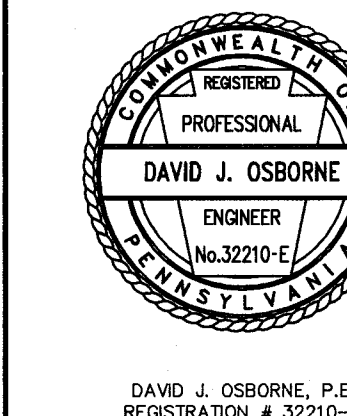
MAINTENANCE

- REQUIRED MAINTENANCE SHALL BE COMPLETED WITHIN 5 WORKING DAYS OF THE INSPECTION.

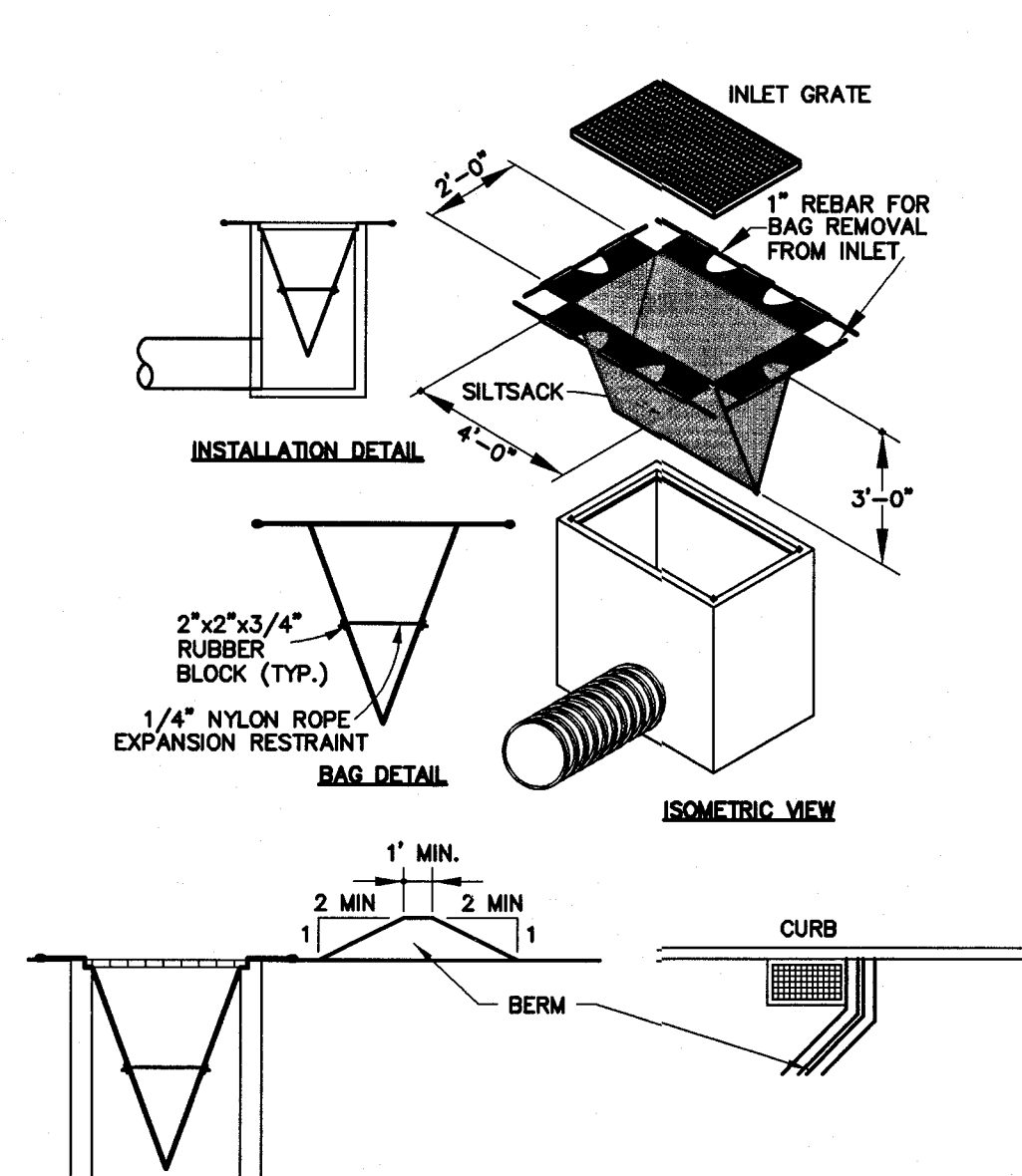


SECTION OF EMERGENCY SPILLWAY

N.T.S.



OLD FORGE BOROUGH 3-16-10		E&S DETAILS	
LOCD	9-29-08	FORGE ESTATES PHASE II	
OLD FORGE BOROUGH 8-25-08		PROPOSED SUBDIVISION/LAND DEVELOPMENT	
DESIGNED	ACB	DRAWN	CRS
CHECKED	DJO	SCALE	NONE
JOB NO.	06-09-94	DATE	02-05-08
consulting engineers			
p.o. box 995, scranton, pa. 18501 570-342-3101			
ceco associates inc®			
SHEET NO. 13 OF 16			



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

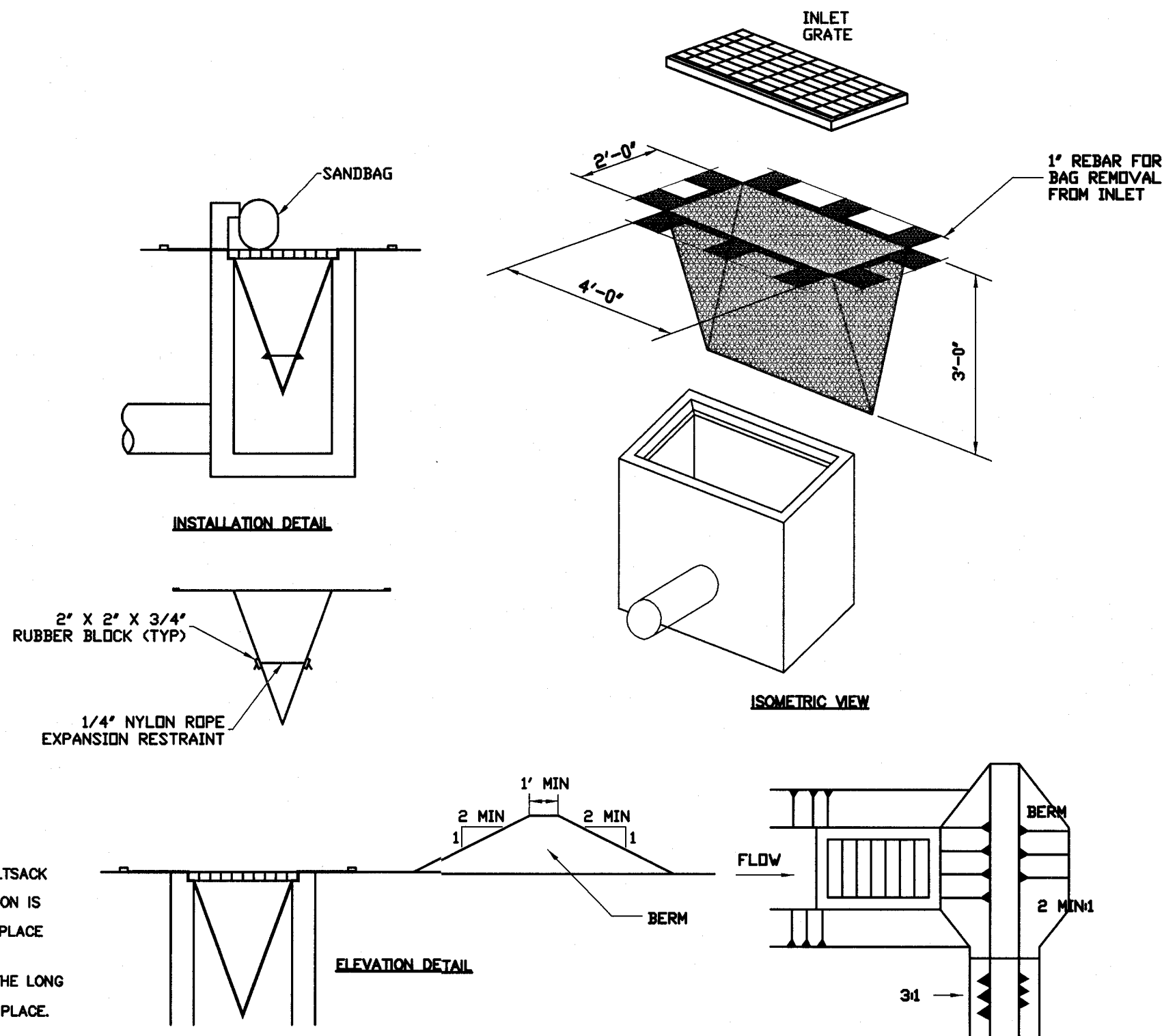
- NOTES:**
- INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.
 - EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED.
 - SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 - INLET FILTER BAGS SHOULD BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.
 - FILTER BAGS SHOULD BE CLEANED AND/OR REPLACED WHEN THE BAG IS 1/2 FULL.
 - DAMAGED FILTER BAGS SHOULD BE REPLACED.
 - NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER THE INSPECTION.

- INSTALLATION:**
- REMOVE LID FROM CATCH BASIN, DROP IN THE SILTSACK AND REPLACE THE LID.
 - COVER THE FLAPS WITH DIRT AND THE INSTALLATION IS COMPLETE.
 - REMOVE FILLED SILTSACK, CLEAN & REUSE OR REPLACE IF DAMAGED.

- REMOVAL:**
- SLIDE 2 REBARS THROUGH THE POCKETS ON THE LONG SIDE LID.
 - AFTER LIFTING BARS ARE IN PLACE REMOVE CATCH BASIN LID.
 - HOOK A LIFT SLING TO THE REBAR.
 - PICK THE SACK UP WITH HEAVY EQUIPMENT.

FILTER BAG INLET PROTECTION

N.T.S.



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS REQUIRED FOR ALL INSTALLATIONS.

EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

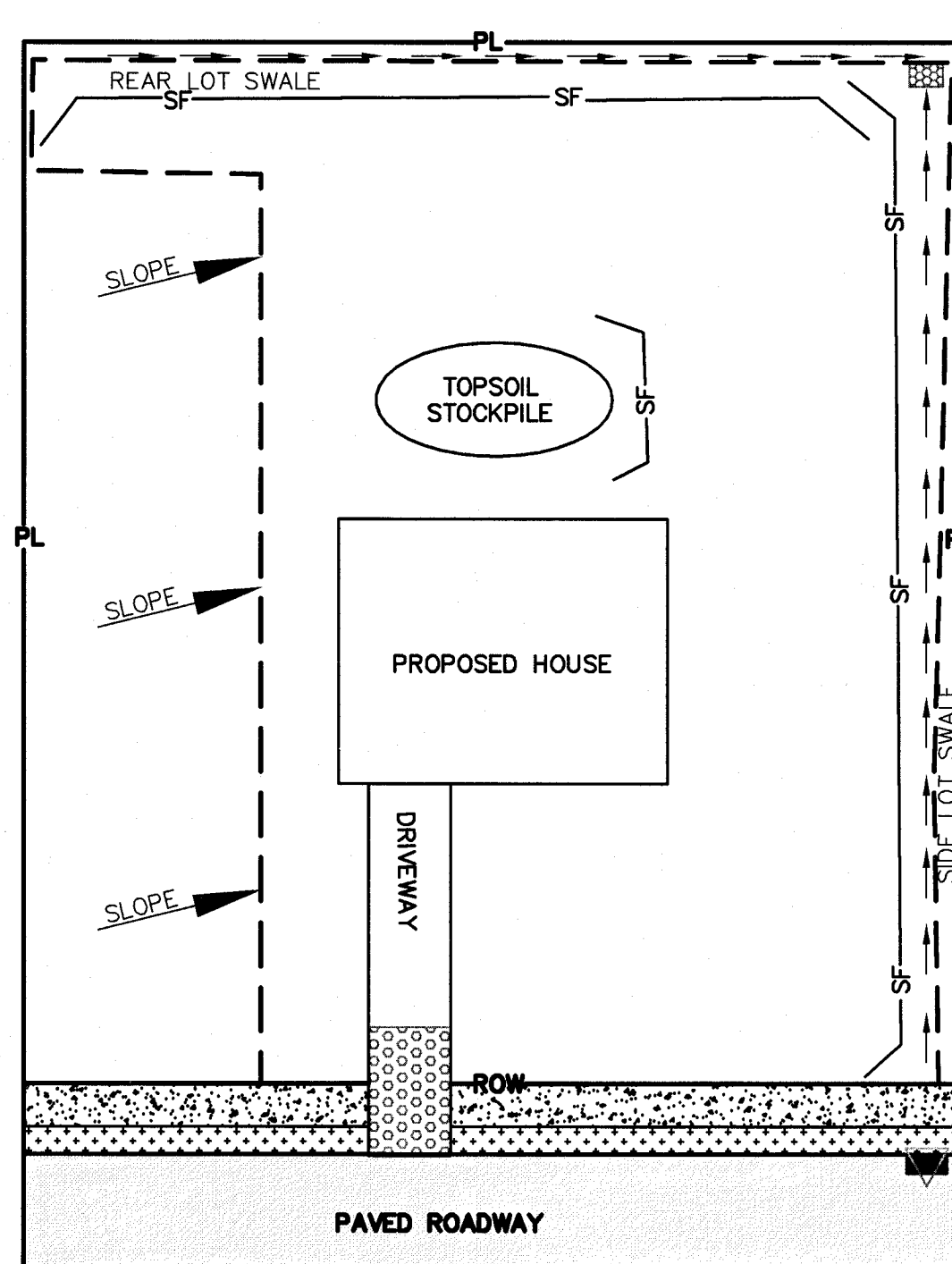
FILTER BAG INLET PROTECTION CHANNEL OR ROADSIDE SWALE

N.T.S.

TYPICAL LOT E&S PLAN #1

N.T.S.

USE FOR LOTS # 1,2,3,4,5,16,17,18,19,20,21,22,23,24,& 25



LEGEND

- ROCK CONSTRUCTION ENTRANCE
- ROCK FILTER
- CONCRETE SIDEWALK
- TREE/LAWN AREA
- BITUMINOUS PAVEMENT
- INLET
- INLET FILTER BAG
- 30" HEIGHT SILT FENCE
- LIMIT OF DISTURBANCE

ON LOT E&S PLAN NOTES:

IF HOME CONSTRUCTION EXCEEDS LIMITS AS SHOWN ON THE PLAN, THE PROPERTY OWNER WILL BE RESPONSIBLE TO SUBMIT A SITE SPECIFIC E&S PLAN.

ALL EARTH DISTURBANCE SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PENNSYLVANIA CODE, TITLE 25, CHAPTER 102 - EROSION AND SEDIMENT CONTROL.

THE PROPER STATE AND LOCAL AGENCIES SHOULD BE CONTACTED PRIOR TO EARTHMOVING ACTIVITIES.

CONSTRUCTION SEQUENCE:

- 1) INSTALL ROCK CONSTRUCTION ENTRANCE ACCORDING TO DETAIL (SHEET #12).
- 2) INSTALL SILT FENCE AS SHOWN ON PLAN AND DETAIL (SHEET #12). INSTALL INLET PROTECTION FOR ROAD INLET IF NEEDED.
- 3) INSTALL ROCK FILTER (SHEET #12) IN EXISTING SWALES IF REQUIRED BY LOT.
- 4) ROUGH GRADE THE SITE AND STOCKPILE MATERIAL AS SHOWN ON PLAN.
- 5) CONSTRUCT HOME AND DRIVEWAY. REMOVE ROCK CONSTRUCTION ENTRANCE.
- 6) FINISH GRADING AND STABILIZE THE SITE IMMEDIATELY WITH SEED AND MULCH AS REQUIRED (SHEET #12 - PERMANENT SEEDING).
- 7) REMOVE SILT FENCE AND ROCK FILTERS (INLET PROTECTION IF APPLICABLE) WHEN 70% VEGETATIVE COVER IS ACHIEVED.

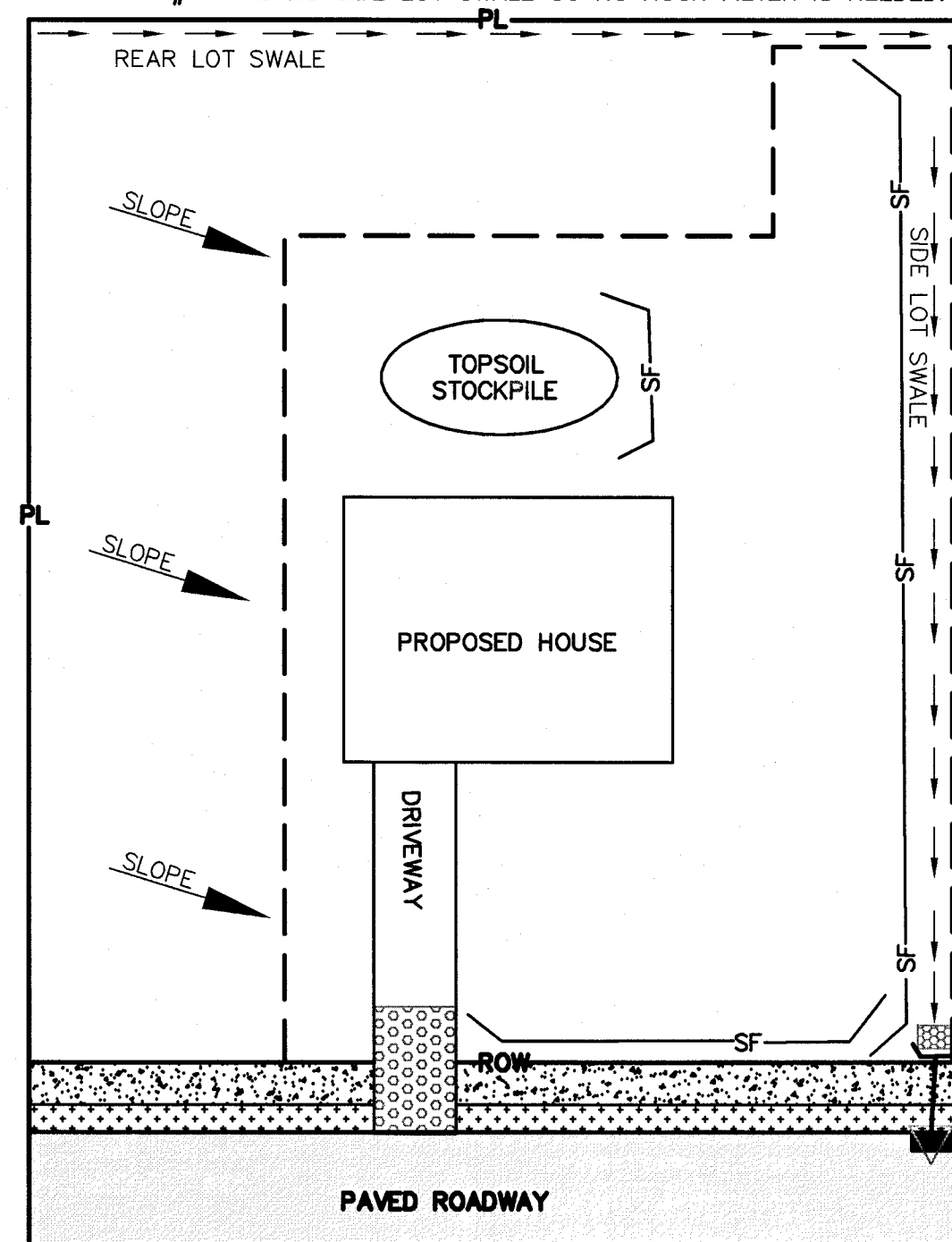
MAINTENANCE

INSPECTIONS AND MAINTENANCE WILL BE PERFORMED BY THE LANDOWNER AND/OR CONTRACTOR. INSPECTION OF SEDIMENT CONTROLS MEASURE WILL BE PERFORMED AFTER EVERY RAIN DAY AND/OR WEEKLY. SILT FENCE AND ROCK FILTERS WILL BE CLEARED WHEN SEDIMENT BUILDUP IS 1/2 THE HEIGHT OF THE CONTROL MEASURE. TORN OR DOWNED FENCE WILL BE REPLACED IMMEDIATELY. ROCK CONSTRUCTION ENTRANCE STONE THICKNESS WILL BE MAINTAINED. A STOCKPILE WILL BE MAINTAINED ON SITE. ANY SEDIMENT DEPOSITED ON PUBLIC ROADS WILL IMMEDIATELY BE REMOVED AND PLACED BACK ON SITE.

TYPICAL LOT E&S PLAN #2

N.T.S.

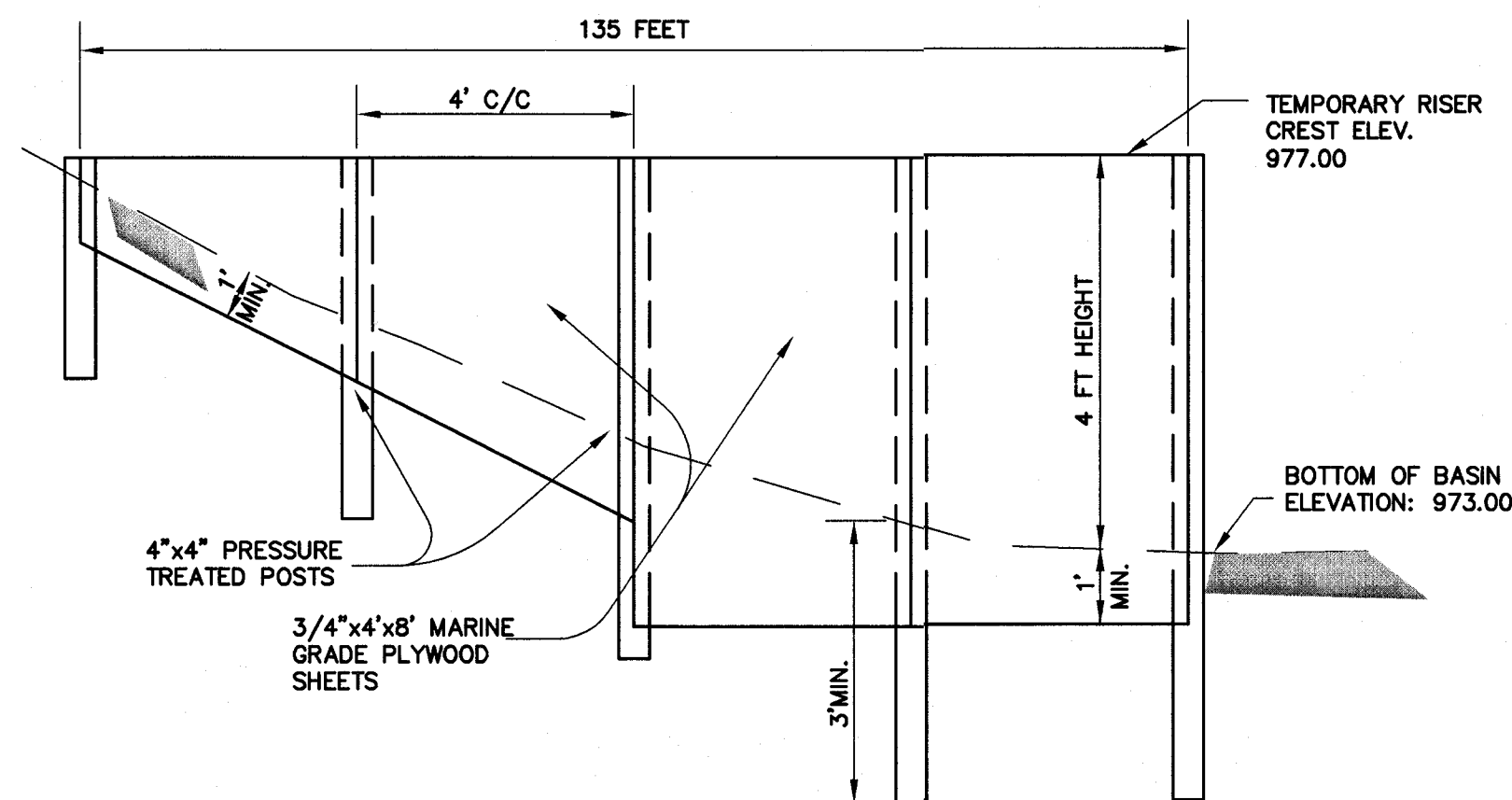
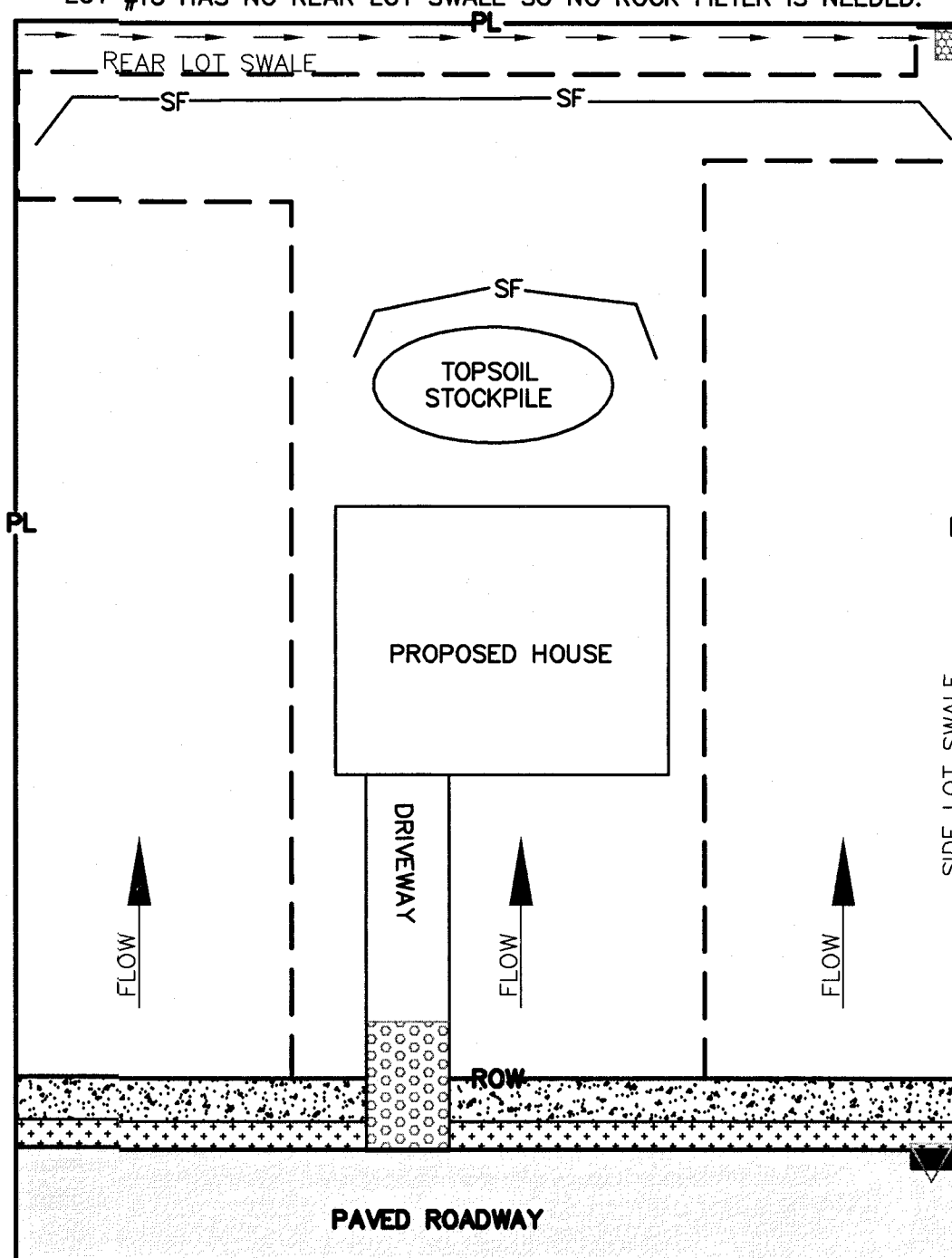
USE FOR LOTS # 6,7,8,9,10,& 11*
* LOT #11 HAS NO SIDE LOT SWALE SO NO ROCK FILTER IS NEEDED.



TYPICAL LOT E&S PLAN #3

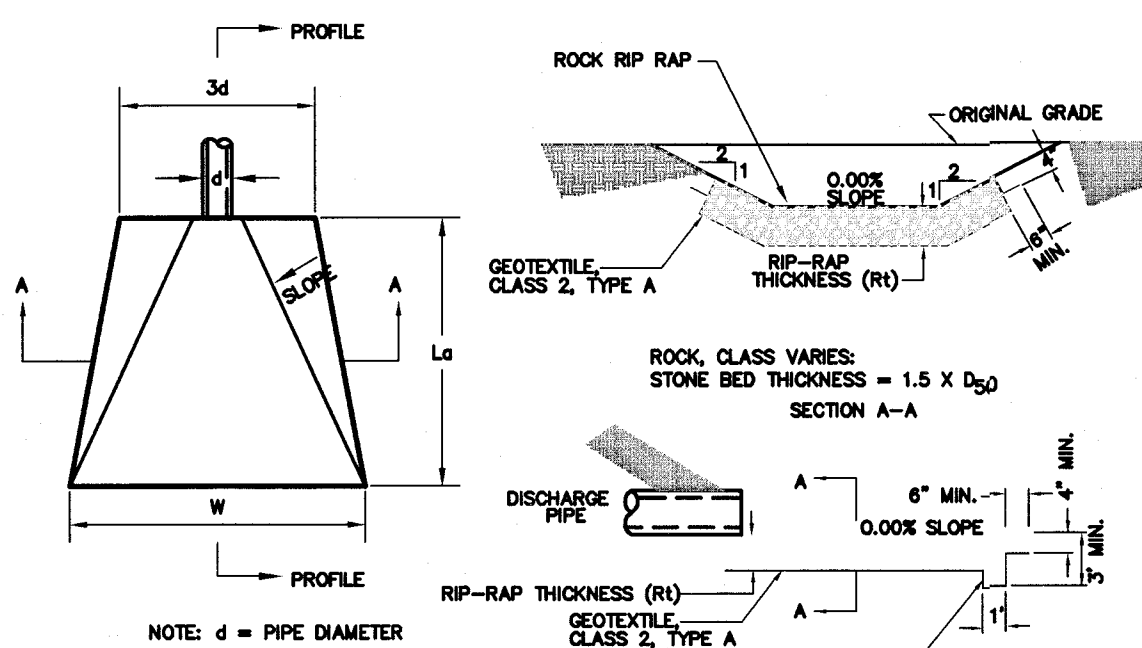
N.T.S.

USE FOR LOTS # 12,13*,14,& 15
* LOT #13 HAS NO REAR LOT SWALE SO NO ROCK FILTER IS NEEDED.



BAFFLE DETAIL

N.T.S.

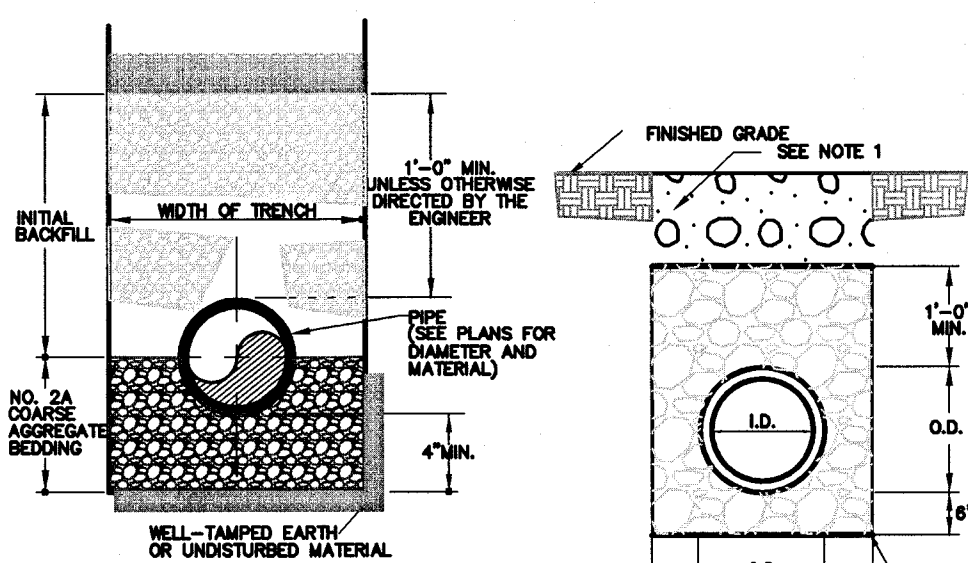


OUTLET PROTECTION DETAIL

N.T.S.

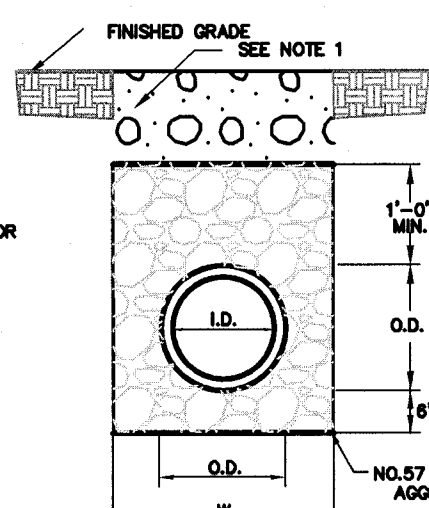
OUTLET #	ROCK SIZE	R1 (IN)	L2 (FT)	W (FT)	PIPE DIA (IN)
OUTLET #1	R-4	18	34	20	24
OUTLET #2	R-4	18	22	13	15
OUTLET #3	R-7	45	42	60**	72***
OUTLET #4	R-4	18	8	11.75	15
EARTH DIKES #1 AND #2	R-4	18	*	*	N/A

*REFER TO DIMENSIONS SHOWN ON SHEET #11A
**FIT WIDTH TO EXISTING CHANNEL. TOP WIDTH WHICH IS APPROXIMATELY 42 FEET
***THIS IS THE EQUIVALENT PIPE DIAMETER FOR THE 2 3/8" PIPES AND THE 42" PIPE WHICH DISCHARGE ONTO OUTLET #3



TRENCH RESTORATION & PIPE BEDDING DETAIL FOR GAS, WATER & SANITARY SEWER

N.T.S.



POLYETHYLENE (PE) CORRUGATED PIPE BEDDING AND BACKFILL DETAILS

N.T.S.

- NOTES:**
1. BACKFILL TRENCHES BEYOND COARSE AGGREGATE WITH SELECT MATERIAL, COMPACTED TO 90% MODIFIED PROCTOR, EXCEPT IN AREAS UNDER BITUMINOUS PAVEMENT WHERE TRENCH SHALL BE BACKFILLED WITH COARSE AGGREGATE TO SUBGRADE.
- LEGEND:**
- I.D. = NOMINAL INSIDE DIAMETER OF PIPE
 - O.D. = OUTSIDE DIAMETER OF PIPE BARREL OR SHELL
 - R.O.D. = RADIUS OF OUTSIDE DIAMETER OF PIPE
 - W = TRENCH WIDTH
 - 1.0 FT. ± H.D. FOR ROCK CONSTRUCTION STORM SEWERS
 - 2.0 FT. ± H.D. FOR PIPES OR ARCHES GREATER THAN 48" I.D. OR SPAN
 - 1.0 TO 2.0 FT. FOR 18" AND 24" POLYETHYLENE PIPE



DAVID J. OSBORNE, P.E.
REGISTRATION # 32210-E

OLD FORGE BOROUGH	3-16-10
LCDD	9-29-08
OLD FORGE BOROUGH	8-25-08
DESIGNED	ACB
CHECKED	DJO
JOB NO.	06-09-94
DATE	02-05-08

E&S DETAILS

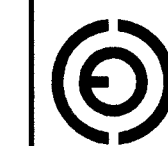
FORGE ESTATES PHASE II

PROPOSED SUBDIVISION/LAND DEVELOPMENT

BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers



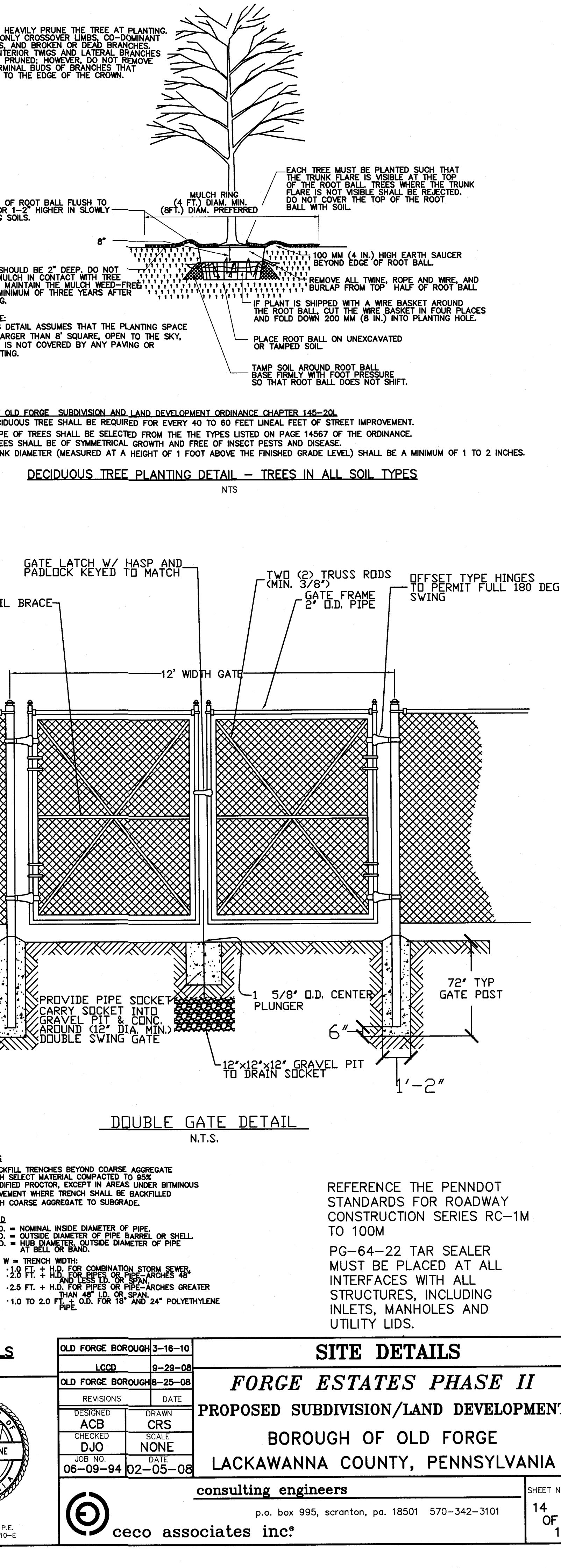
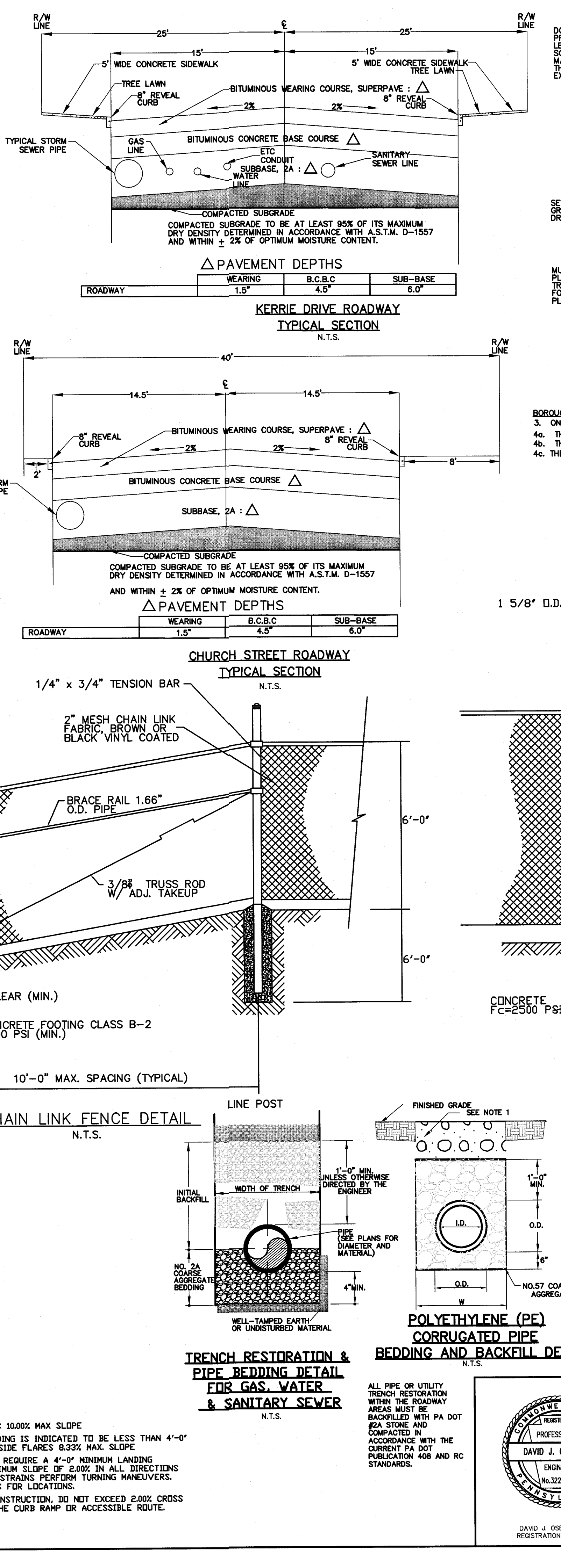
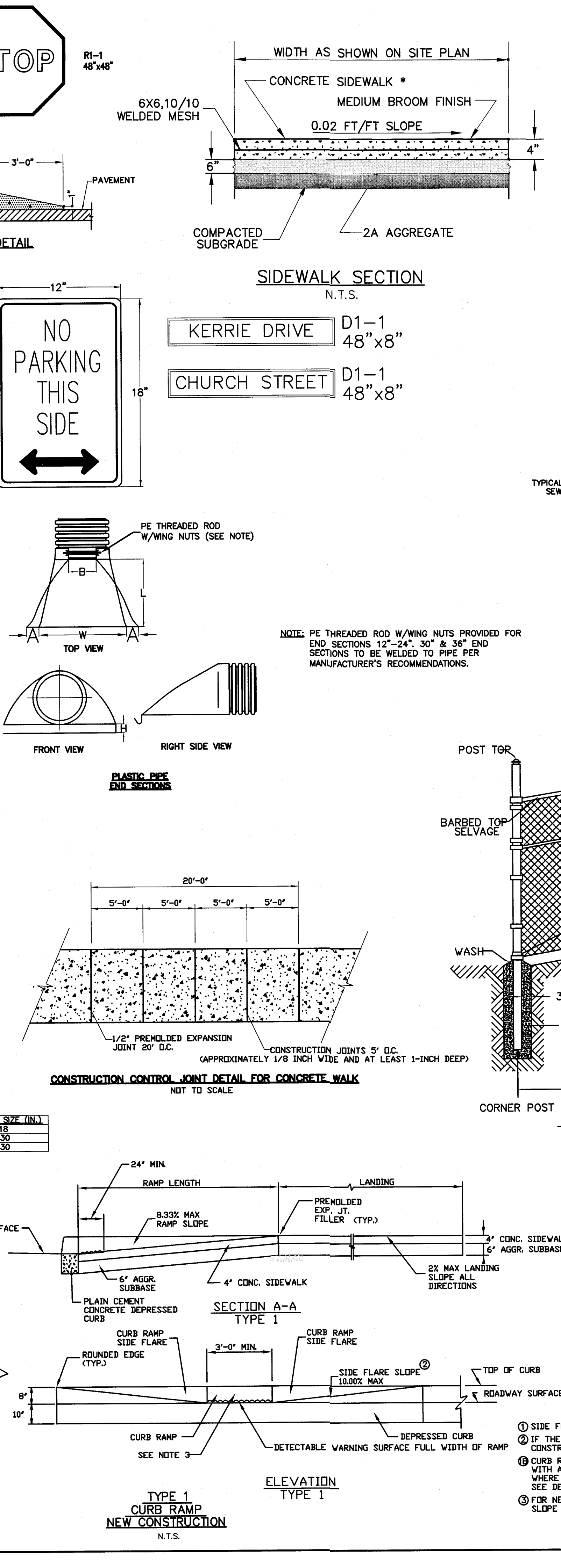
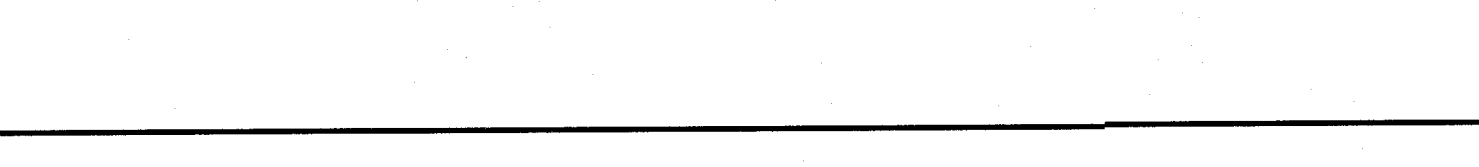
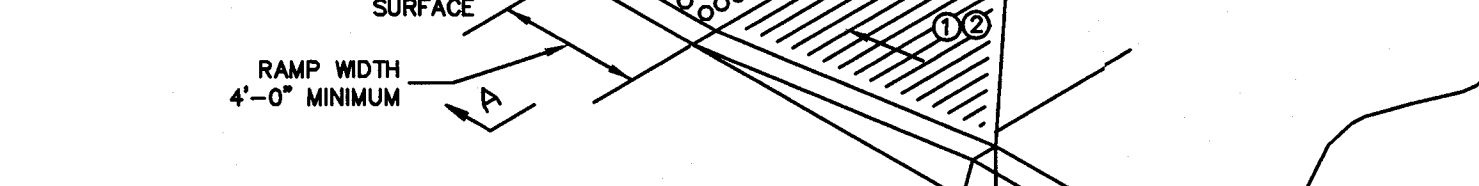
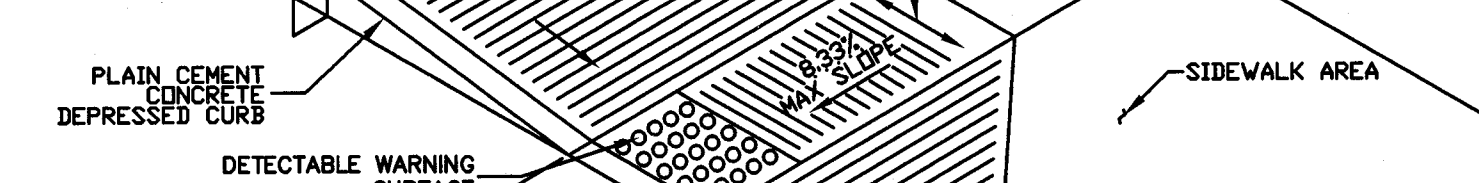
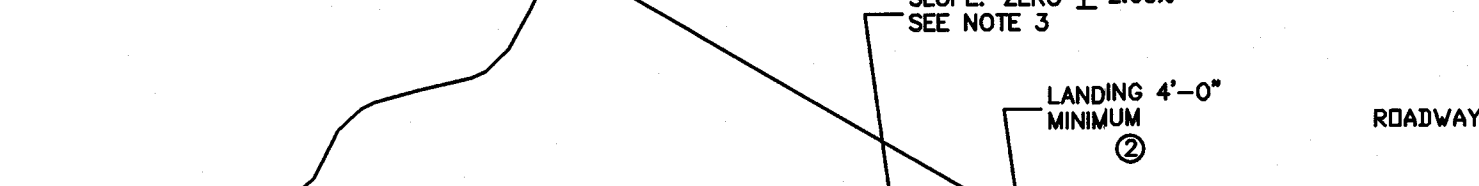
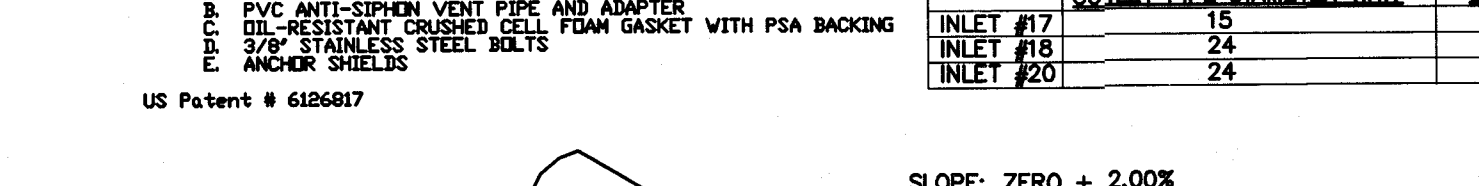
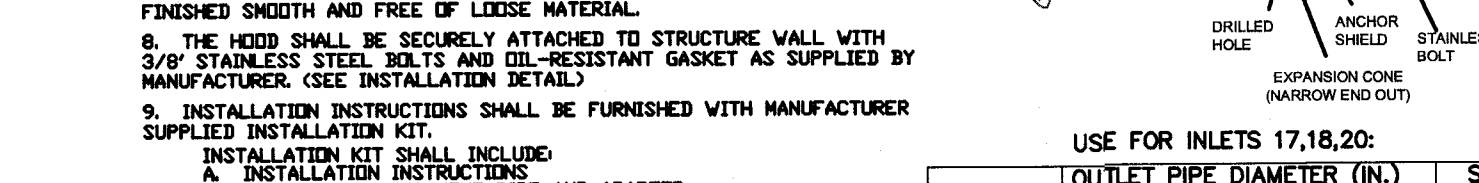
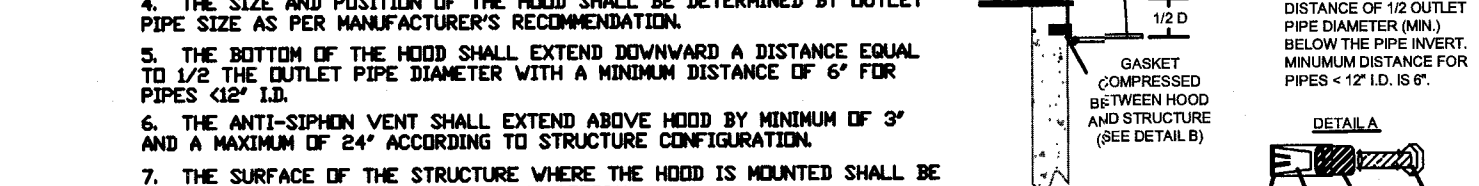
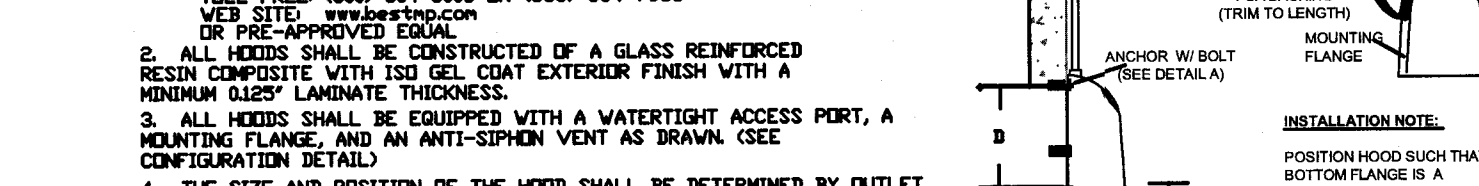
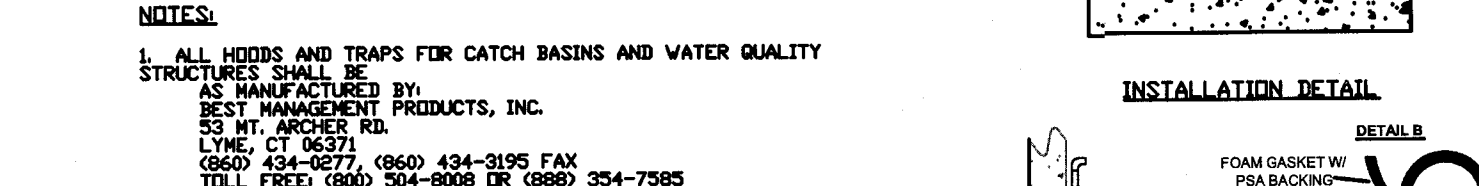
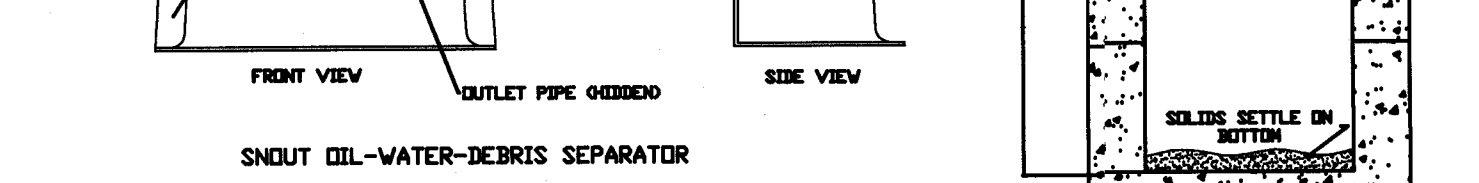
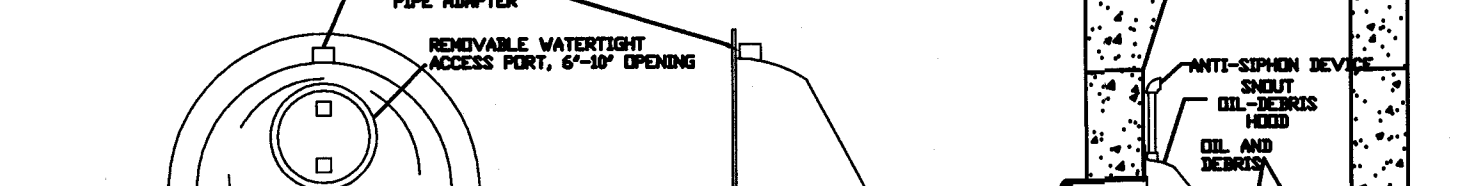
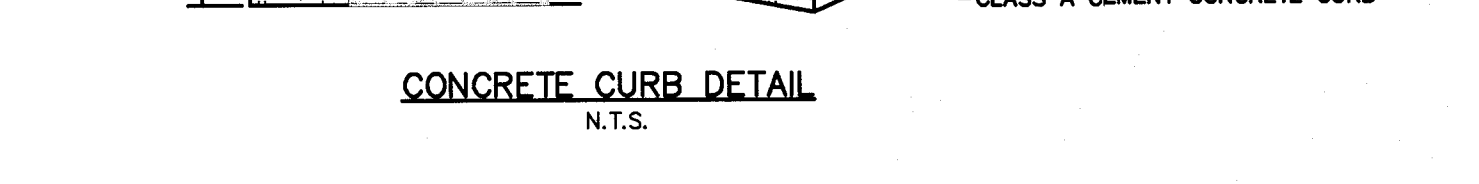
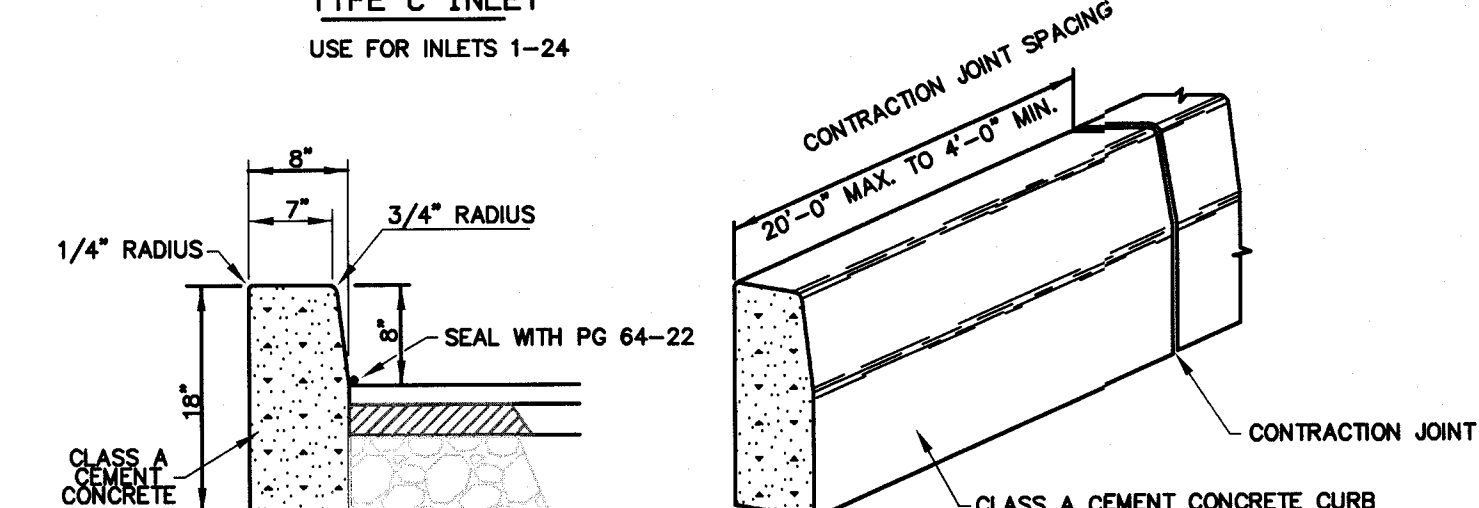
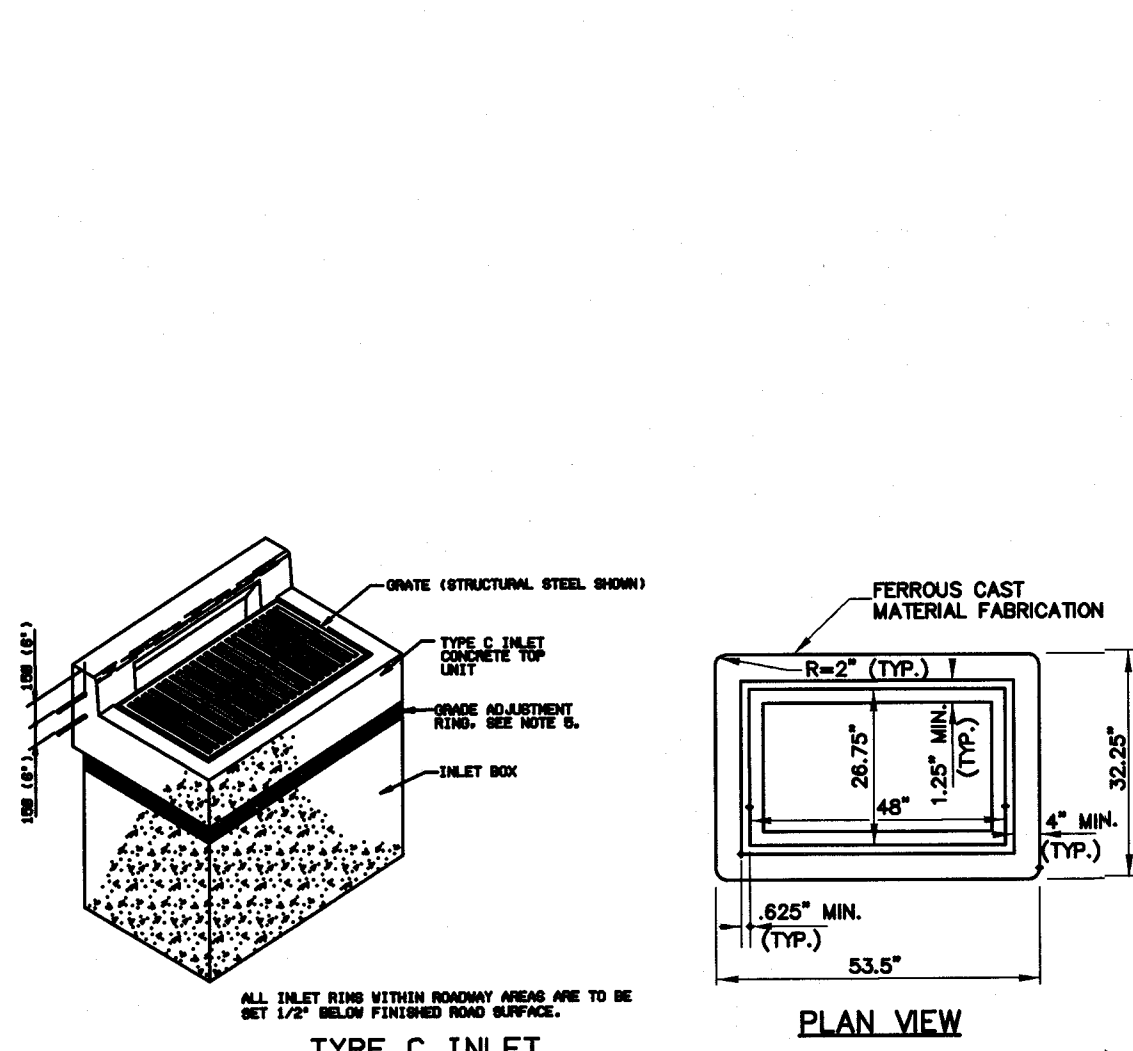
ceco associates inc.

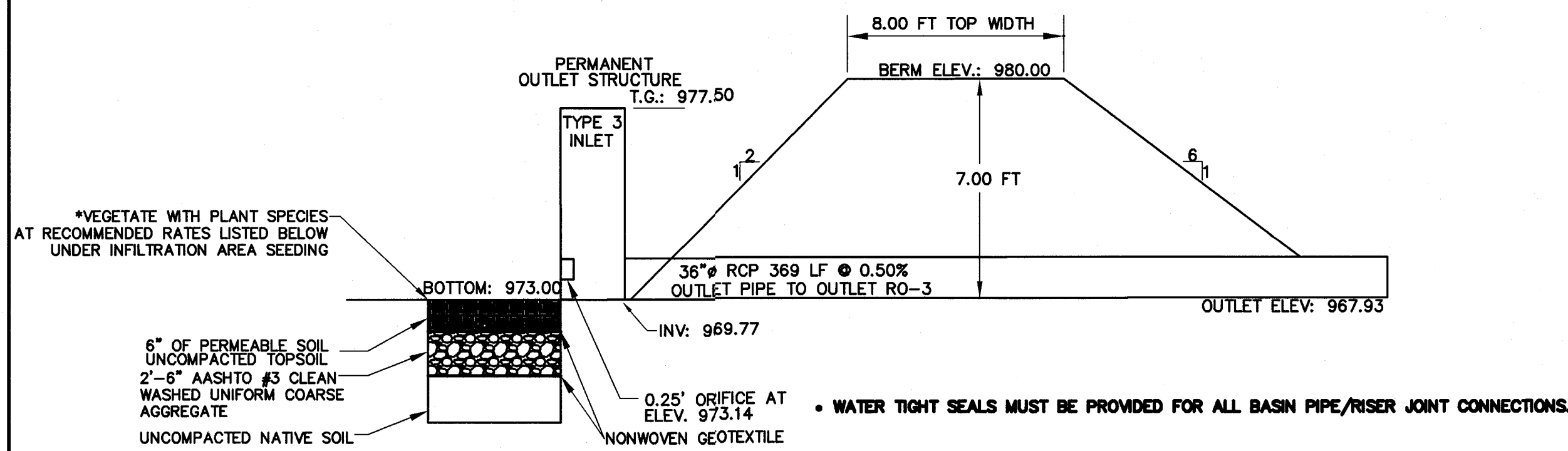
p.o. box 995, scranton, pa. 18501 570-342-3101

SHEET NO.

13A

OF 16

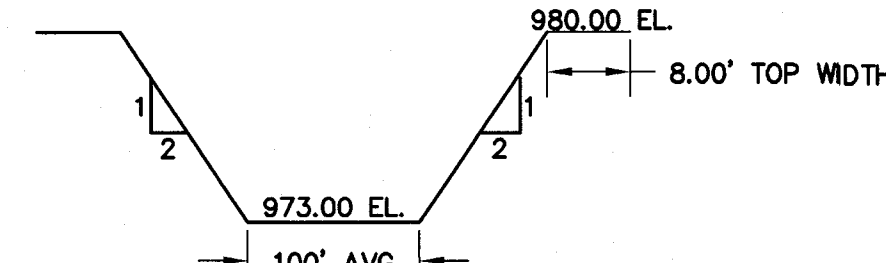




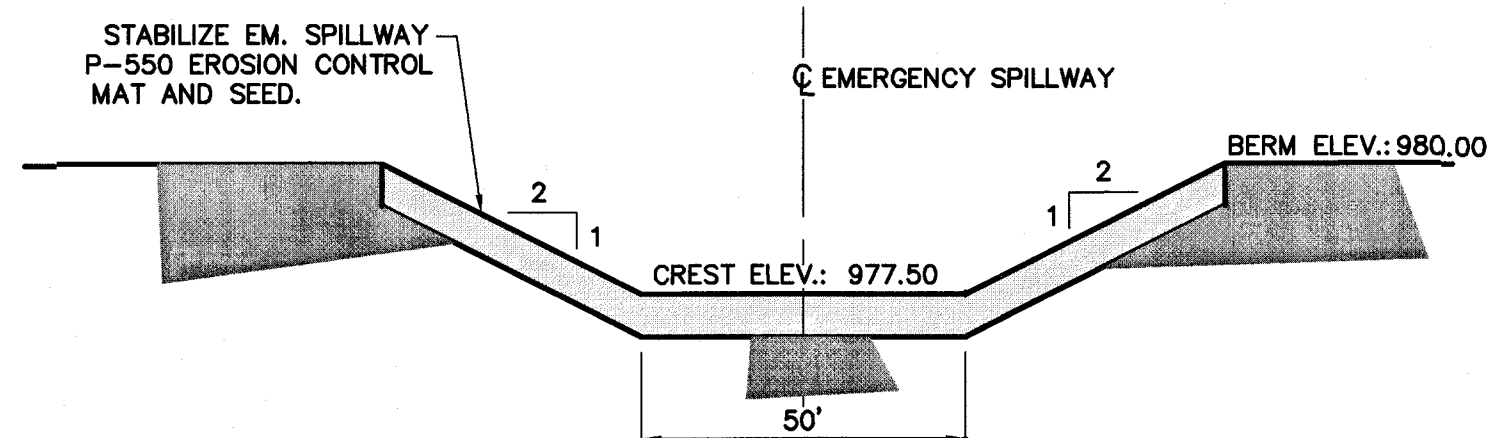
DETENTION BASIN #1 PROFILE

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- WATER TIGHT SEALS MUST BE PROVIDED FOR ALL BASIN PIPE JOINT CONNECTIONS.
- BASIN SIDE SLOPES AND BOTTOM SHALL BE STABILIZED WITH SEED AND MULCH.
- MAINTENANCE
- REQUIRED MAINTENANCE SHALL BE COMPLETED WITHIN 5 WORKING DAYS OF THE INSPECTION.



BASIN #1 CROSS SECTION



SECTION OF EMERGENCY SPILLWAY

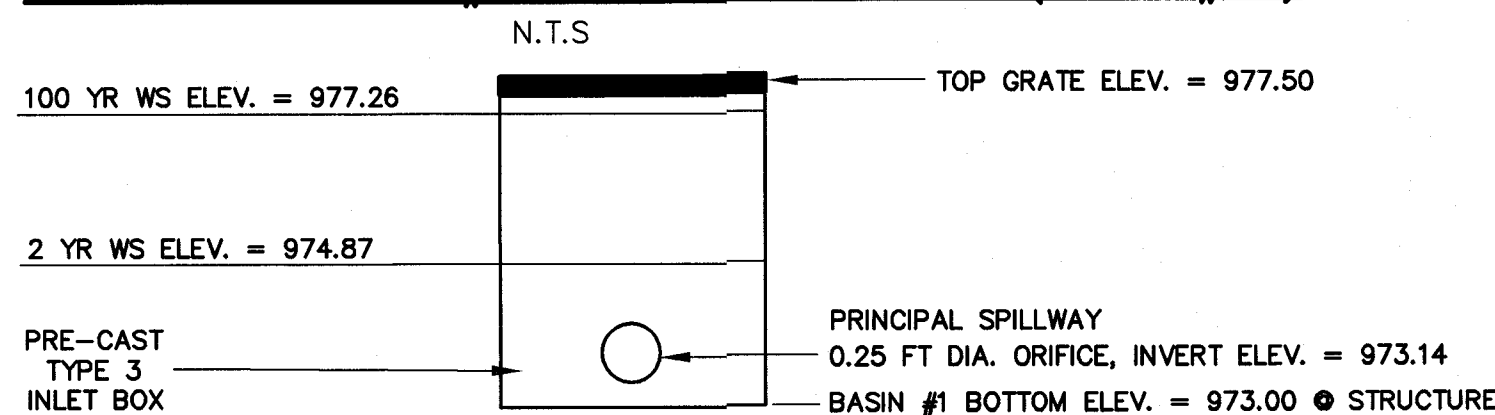
TANGENT TABLE

NO.	DISTANCE	BEARING
T100	938.79	N 43° 15' 00" W
T101	245.76	S 46° 45' 00" W

HORIZONTAL CURVE TABLE

NO.	DELTA	DEGREE OF CURVE	RADIUS	LENGTH	TANGENT LENGTH	MID-ORDINATE	PC	PT
C100	90° 32' 35"	114° 35' 30"	50.00	79.01	50.48	14.81	19+38.79	20+17.81

DETENTION BASIN #1 OUTLET STRUCTURE (INLET #27)



PIPE SCHEDULE

PIPE NO.	LOCATION	PIPE DIA. (in.)	SLOPE OF PIPE (ft/ft)	TYPE	LENGTH (ft)
1	INLET #1 TO INLET #3	15	0.010	SMOOTH-PE	28
2	INLET #3 TO HEADWALL #10	15	0.010	SMOOTH-PE	24
3	INLET #6 TO INLET #4	15	0.012	SMOOTH-PE	84
4	INLET #5 TO INLET #4	15	0.010	SMOOTH-PE	23
5	INLET #4 TO INLET #3	15	0.023	SMOOTH-PE	85
6C	MH #5 TO MH #2	36	0.031	SMOOTH-PE	363
7	INLET #23 TO INLET #22	15	0.033	SMOOTH-PE	95
8	INLET #21 TO INLET #22	18	0.034	SMOOTH-PE	25
9	HEADWALL #2 TO INLET #21	18	0.049	SMOOTH-PE	27
10	MH #2 TO MH #6	36	0.036	SMOOTH-PE	80
10A	MH #6 TO MH #7	36	0.036	SMOOTH-PE	97
10B	MH #7 TO RO #3	36	0.036	SMOOTH-PE	106
11	INLET #22 TO MH #1	24	0.007	SMOOTH-PE	90
12	MH #1 TO INLET #20	24	0.081	SMOOTH-PE	51
13	INLET #7 TO INLET #8	15	0.072	SMOOTH-PE	76
14	INLET #9 TO INLET #8	15	0.030	SMOOTH-PE	25
15	INLET #8 TO INLET #10	15	0.059	SMOOTH-PE	199
16	INLET #11 TO INLET #10	15	0.030	SMOOTH-PE	25
17	INLET #10 TO INLET #12	15	0.054	SMOOTH-PE	124
18	HEADWALL #3 TO INLET #12	15	0.193	SMOOTH-PE	15
19	INLET #12 TO INLET #13	15	0.050	SMOOTH-PE	77
20	HEADWALL #4 TO INLET #13	15	0.170	SMOOTH-PE	16
21	INLET #13 TO INLET #14	15	0.037	SMOOTH-PE	77
22	INLET #15 TO INLET #14	15	0.005	SMOOTH-PE	24
23	HEADWALL #5 TO INLET #14	15	0.152	SMOOTH-PE	17
24	INLET #14 TO INLET #16	15	0.030	SMOOTH-PE	78
25	HEADWALL #6 TO INLET #16	15	0.206	SMOOTH-PE	19
26	INLET #16 TO INLET #17	15	0.030	SMOOTH-PE	77
27	HEADWALL #7 TO INLET #17	15	0.249	SMOOTH-PE	21
28	INLET #17 TO INLET #18	15	0.042	SMOOTH-PE	86
29	INLET #19 TO INLET #18	15	0.048	SMOOTH-PE	56
30	INLET #20 TO INLET #18	24	0.015	SMOOTH-PE	55
31	INLET #18 TO MH #3	24	0.017	SMOOTH-PE	168
32	MH #3 TO RO #1	24	0.010	SMOOTH-PE	26
32A	HEADWALL #9 TO RO #2	15	0.015	SMOOTH-PE	52
33	INLET #27 TO MH #4	36	0.005	SMOOTH-PE	61
34	HEADWALL #1 TO MH #4	36	0.280	SMOOTH-PE	5
35	MH #4 TO INLET #25	36	0.005	SMOOTH-PE	210
36	HEADWALL #8 TO INLET #25	15	0.410	SMOOTH-PE	5
37	INLET #25 TO RO #3	36	0.005	SMOOTH-PE	98
38	INLET #24 TO EX. INLET #2	15	0.005	SMOOTH-PE	47

* THE TYPE OF JOINTS USED FOR THE PROPOSED PIPE SHOULD BE OF THE GASKET TYPE AND NOT BANDED.

CONVERSION OF SEDIMENT BASIN TO DETENTION BASIN

- DEWATER BASIN AND REMOVE ALL SEDIMENT FROM BASIN BOTTOM AND DISPOSE OF AS PER DEP REGULATIONS. DO NOT COMPACT THE BASIN BOTTOM WITH ANY MACHINERY OR EQUIPMENT.
- REMOVE TEMPORARY RISER WITH BASE AND SEDIMENT DEWATERING FACILITY. CLOSE THE 36 INCH DIAMETER HOLE FROM THE OUTLET PIPE OF THE TEMPORARY RISER. INSTALL THE 3" ORIFICE IN THE PERMANENT OUTLET CONTROL STRUCTURE. REMOVE THE GRATE COVER ON THE PERMANENT OUTLET CONTROL STRUCTURE.
- EXCAVATE FOR INFILTRATION BED WITH BACKHOE LOCATED OUTSIDE OF BASIN. AVOID COMPACTION OF NATIVE SOIL AT BASIN BOTTOM. KEEP CONSTRUCTION VEHICLES OUT OF THE BASIN FOOTPRINT.
- INSTALL INFILTRATION BED ACCORDING TO DETAIL. OVERLAY STONE BED WITH GEOTEXTILE AND PERVIOUS SOIL. DO NOT COMPACT THE BASIN BOTTOM SURFACE. INSTALL INSPECTION PORTS.
- VEGETATE BASIN BOTTOM WITH A WATER RESISTANT HERBACEOUS PLANT SPECIES AS SPECIFIED.
- STABILIZE ANY REMAINING DISTURBED BASIN SIDE SLOPES WITH SEED AND MULCH AS REQUIRED. INSTALL BASIN PERIMETER FENCE WITH ACCESS GATE.

*INFILTRATION AREA (DETENTION BASIN BOTTOM) SEEDING

SEEDING WILL BE APPLIED AT A RATE OF 15 POUNDS PER ACRE.

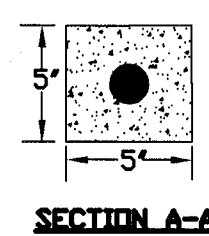
TYPE OF COVER AND SPECIES	% BY NUMBER OF SEEDS
CREEPING BENTGRASS	63%
ROUGH BLUEGRASS	17%
MEADOW FORTAIL	11%
ANNUAL RYEGRASS	4.5%
DEERTONGUE	4.5%

INLET SCHEDULE

INLET NUMBER	TYPE	RIM ELEV.	INVERT	STATION	OFFSET
1	TYPE C	1020.28	1017.81	2+71.91	15.75' L
3	TYPE C	1020.04	1017.53	2+86.55	9.81' R
4	TYPE C	1021.47	1019.52	1+97.03	9.79' R
5	TYPE C	1021.50	1019.74	1+95.96	15.40' L
6	TYPE C	1022.78	1020.53	1+09.08	10.54' R
7	TYPE C	1019.05	1015.00	1+17.85	13.67' L
8	TYPE C	1013.18	1009.51	1+97.95	13.67' L
9	TYPE C	1013.18	1010.25	1+97.95	13.67' R
10	TYPE C	1000.35	997.75	4+00.94	13.67' L
11	TYPE C	1000.35	998.49	4+00.94	13.67' R
12	TYPE C	993.39	991.08	5+29.28	13.22' L
13	TYPE C	989.90	987.26	6+10.70	13.30' L
14	TYPE C	987.17	984.39	6+92.45	13.39' L
15	TYPE C	987.17	984.50	6+93.06	13.37' R
16	TYPE C	985.20	982.06	7+74.96	13.53' L
17	TYPE C	984.00	979.76	8+56.16	13.40' L
18	TYPE C	983.70	976.18	9+39.37	20.55' R
19	TYPE C	983.65	978.86	9+40.79	37.41' L
20	TYPE C	983.68	977.00	9+78.99	27.31' R
21	TYPE C	985.00	982.65	11+12.10	13.67' L
22	TYPE C	985.00	981.80	11+12.10	13.67' R
23	TYPE C	986.91	984.90	12+11.02	13.67' R
24	TYPE C	988.10	985.77	12+36.72	24.27' L
25	MODIFIED TYPE 1	976.00	968.42		
27	TYPE 3	977.50	969.77		

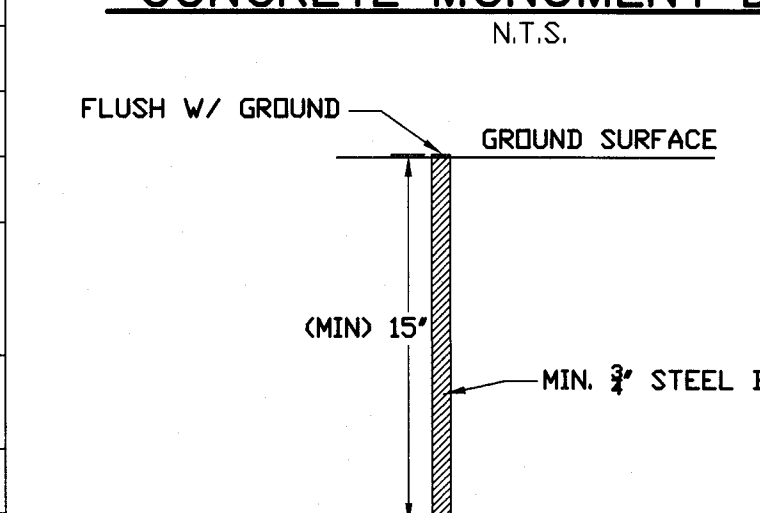
MANHOLE SCHEDULE

MANHOLE NUMBER	TYPE	RIM ELEV.	INVERT	STATION	OFFSET
1	5' DIA	983.77	981.15	10+18.05	12.60' R
2	6' DIA	984.85	978.07	11+03.42	12.28' L
3	5' DIA	980.00	973.25		
4	6' DIA	977.30	969.47		
5	6' DIA	994.05	989.22		
6	6' DIA	984.00	975.19	10+21.31	3.08' R
7	6' DIA	979.00	971.70		

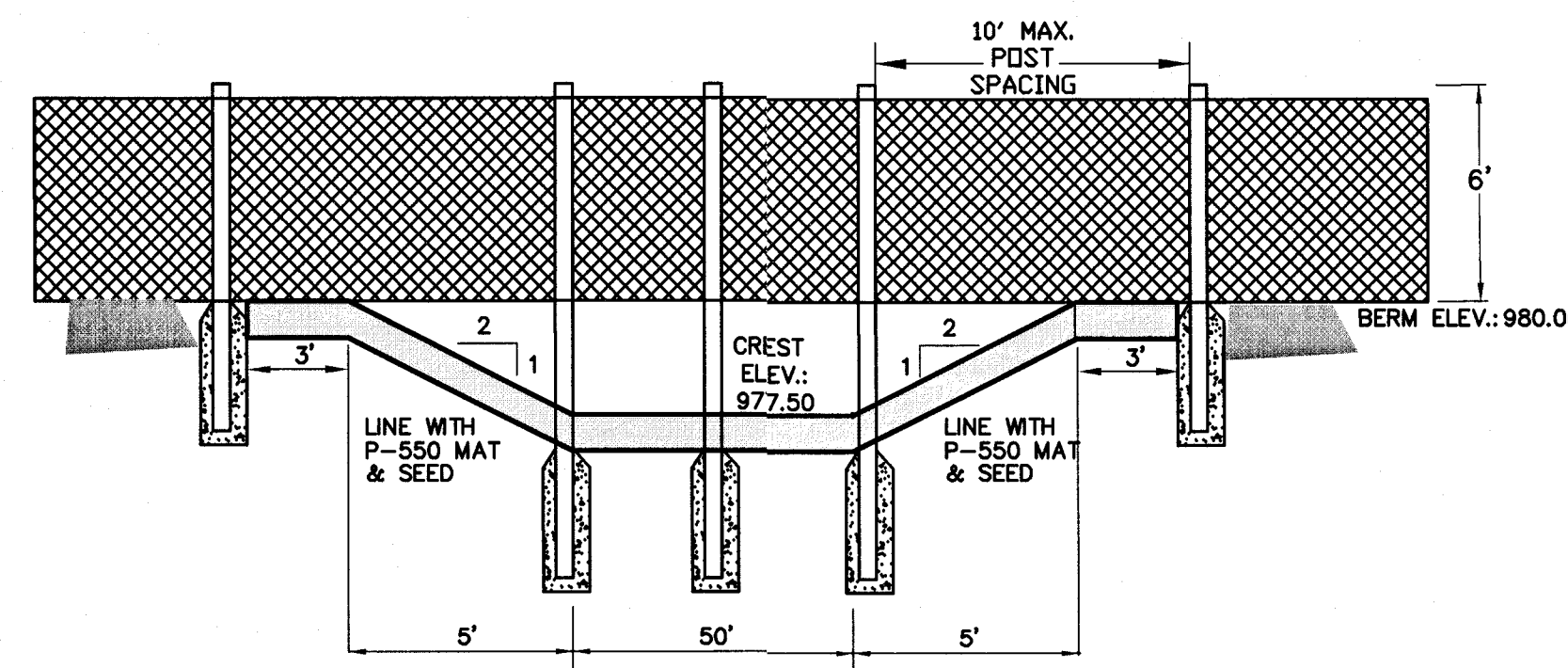


NOTE: MONUMENTS SHALL BE PLACED SO THAT THE SCORED PIN WILL COINCIDE EXACTLY WITH THE INTERSECTION OF THE LINES TO BE MARKED, AND SHALL BE SET SO THE TOP OF THE MONUMENT IS LEVEL WITH THE SURROUNDING GROUND SURFACE.

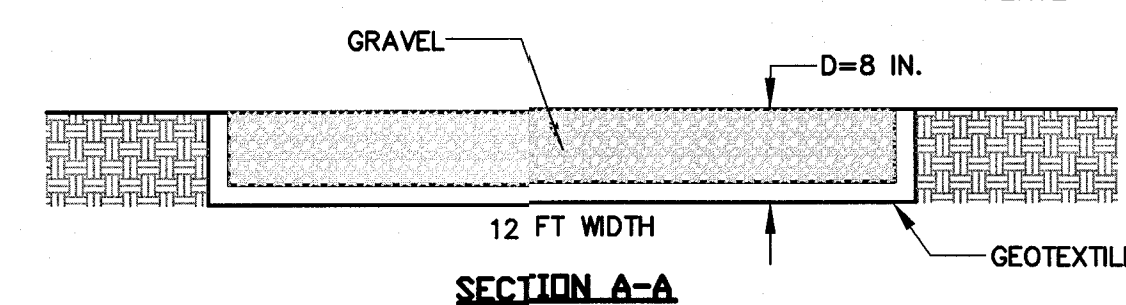
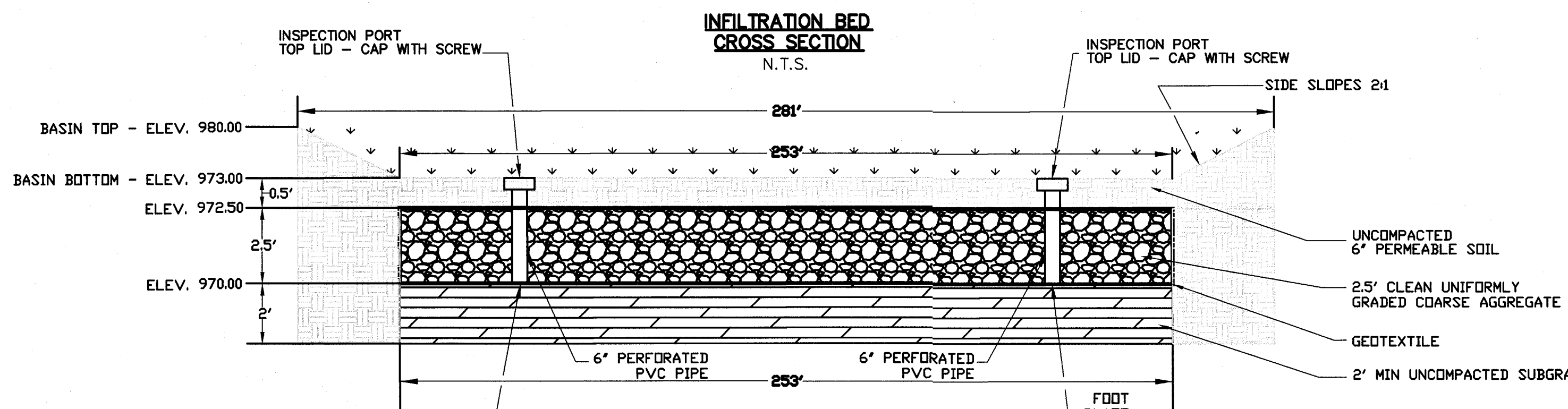
CONCRETE MONUMENT DETAIL



STEEL MARKER DETAIL



FENCE INSTALLATION DETAIL AT EMERGENCY SPILLWAY



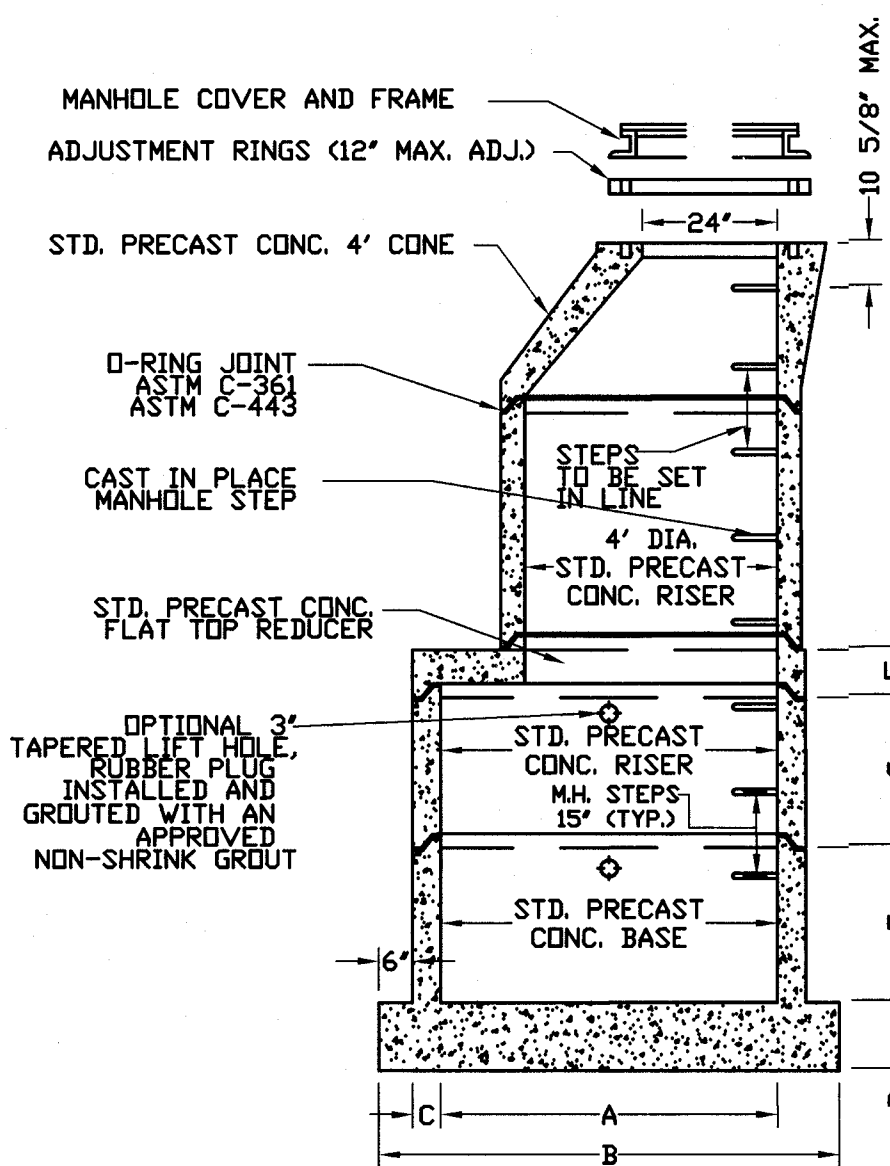
GRAVEL MAINTENANCE ROAD CROSS-SECTION



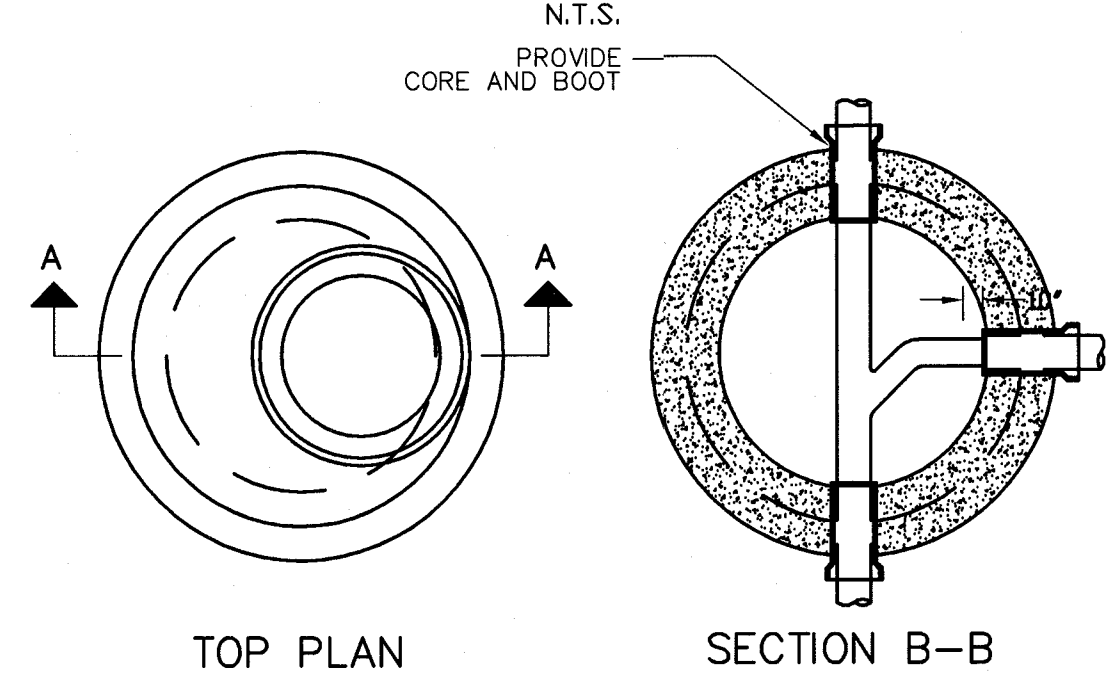
DESIGNED	CHECKED	DATE
ACB	DJO	06-09-94
DRAWN	SCALE	DATE
CRS	NONE	02-05-08

SITE DETAILS

FORCE ESTATES PHASE II
PROPOSED SUBDIVISION/LAND DEVELOPMENT
BOROUGH OF OLD FORGE
LACKAWANNA COUNTY, PENNSYLVANIA

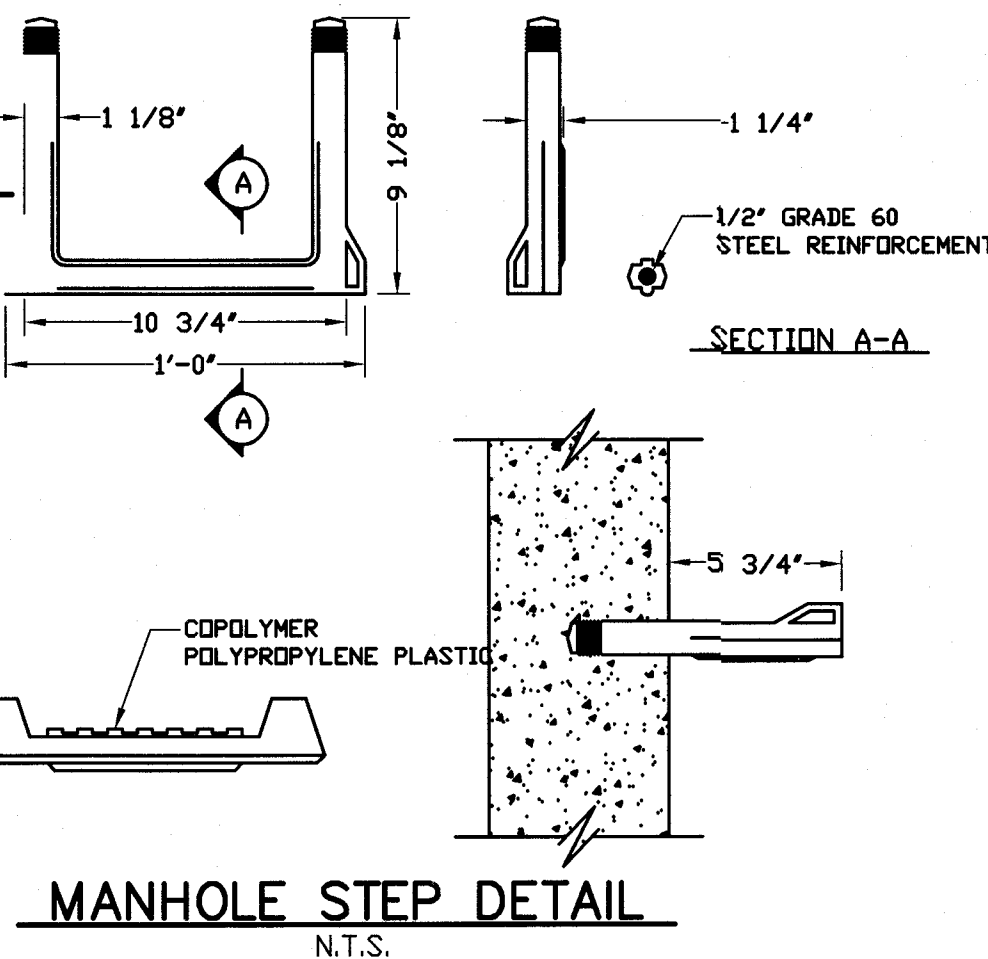


TYPICAL 5' & 6' DIA. PRECAST CONCRETE STORM MANHOLE W/ 4' STACK

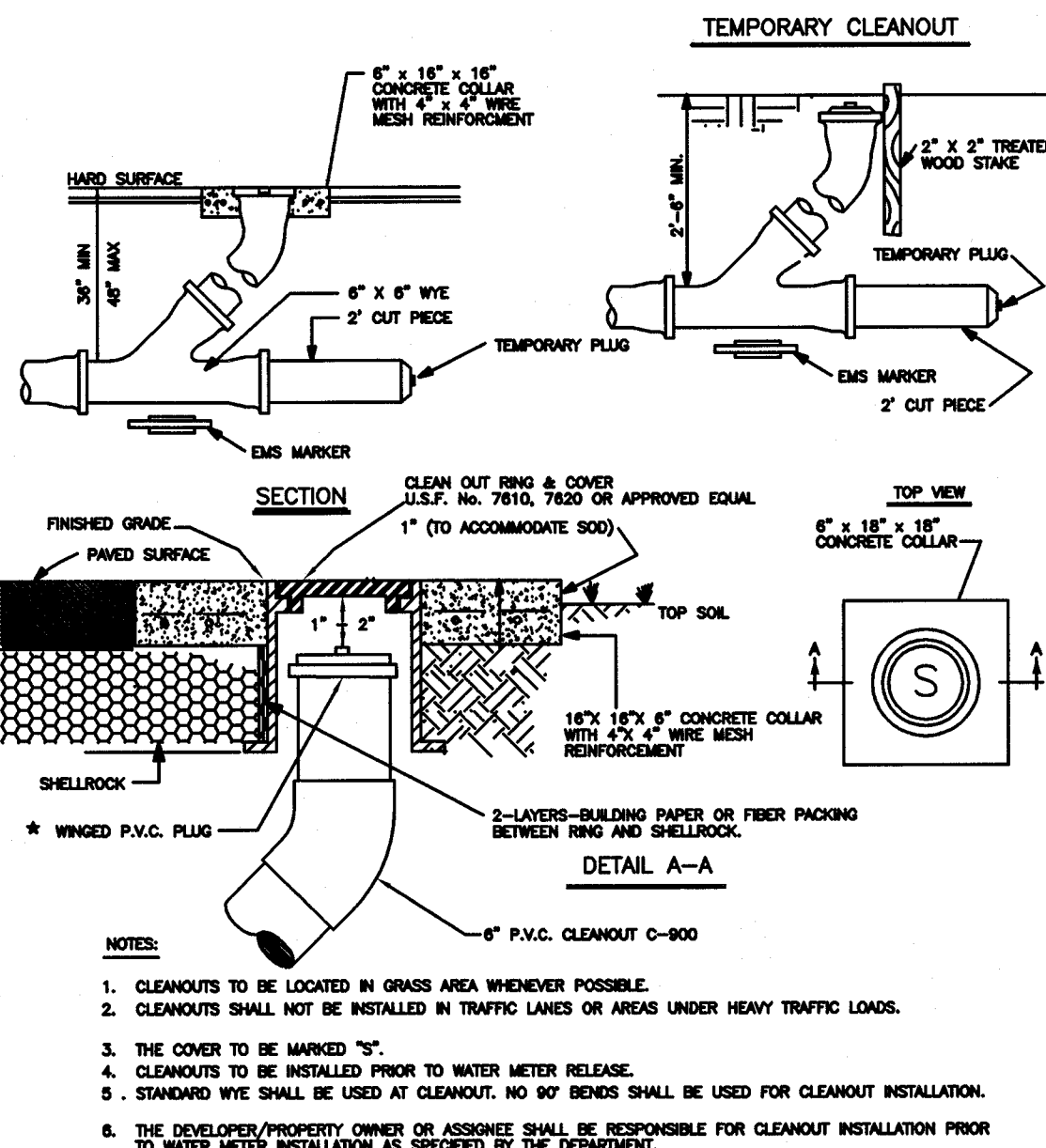


MANHOLE DIA. IN FEET	5'	6'
A	60"	72"
B	84"	96"
C	6"	7"
D	8"	9"
E	VARIES	VARIES
F	13" MIN.	13" MIN.
G	VARIES	VARIES

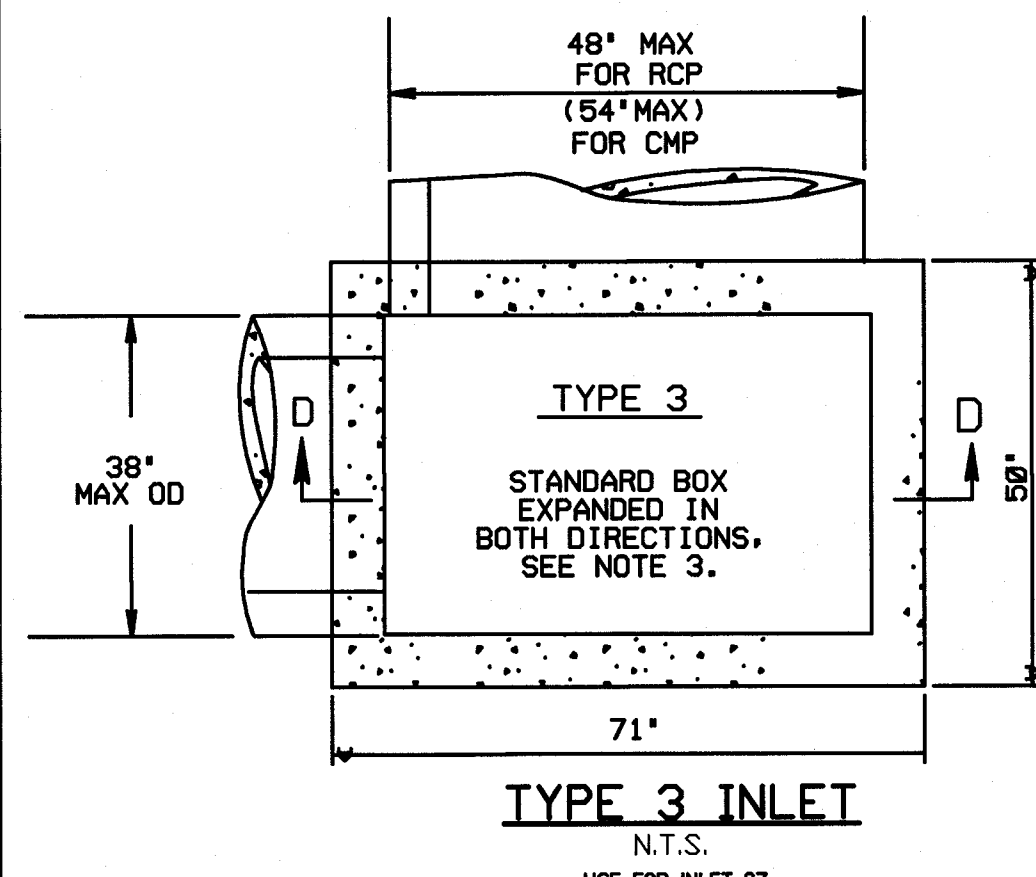
- NOTES:
- 1- CONCRETE TO BE 4000 PSI COMPRESSIVE STRENGTH MIN.
 - 2- PIPE CONNECTIONS TO MANHOLES TO BE APPROVED FLEXIBLE SLEEVES.
 - 3- MANHOLES OVER 6' DIA. WILL REQUIRE DETAILED DRAWINGS ON PLANS.
 - 4- ALL REINFORCING TO MEET CURRENT REQUIREMENT OF ASTM SPEC. A-615.
 - 5- MANUFACTURER'S NAME TO BE ON THE INSIDE FACE OF CONE.
 - 6- MANHOLE TO MEET CURRENT REQUIREMENT OF ASTM SPEC. 478.
 - 7- COMPACTED GRAVEL UNDER BASE SECTIONS.
 - 8- JOINT CONFIGURATION MAY BE CAST BELL-UP OR SPIGOT-UP.
 - 9- INTERIOR AND EXTERIOR TO BE COATED W/ 16 MIL DFT KOP COAT 300M OR APPROVED EQUAL.



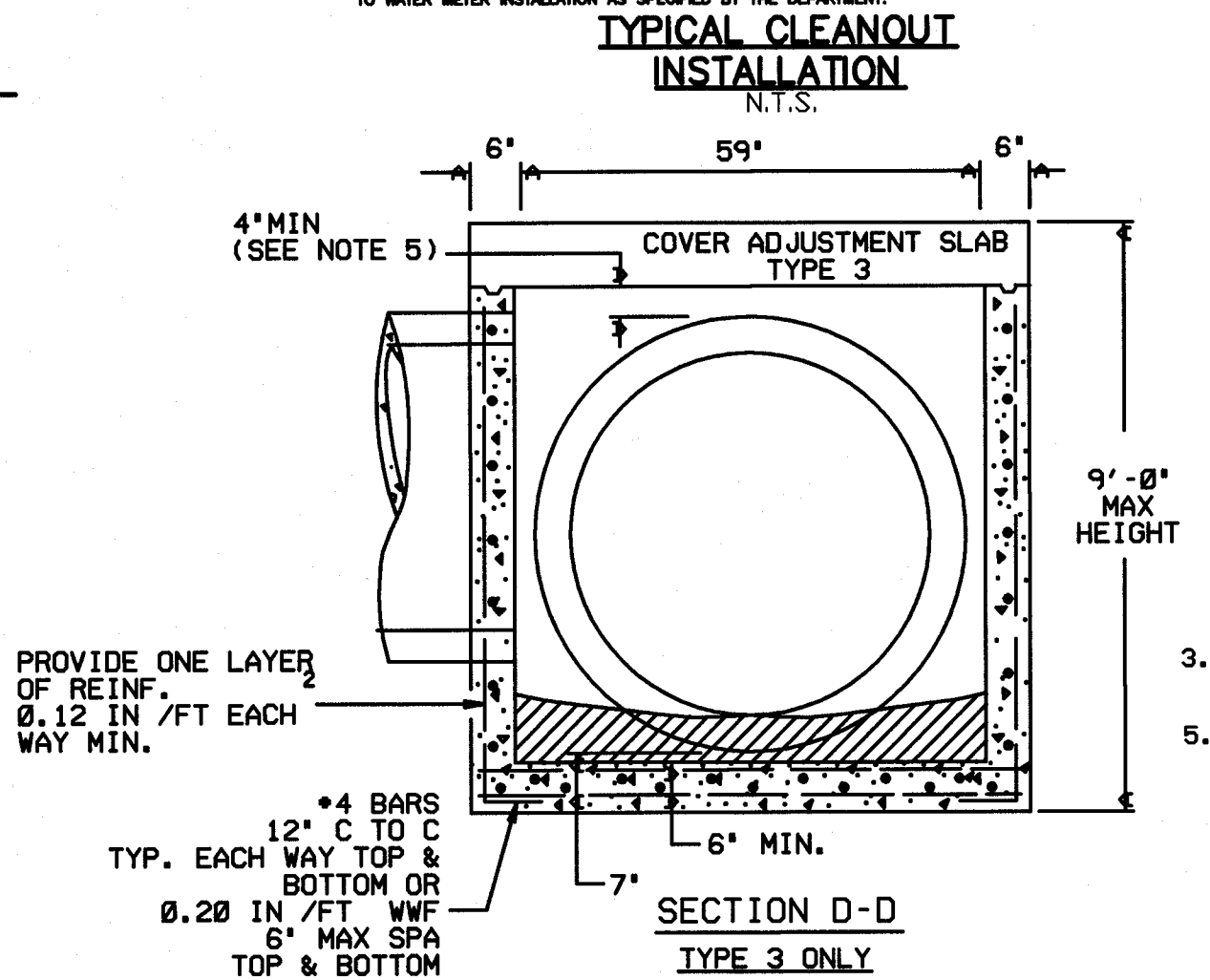
MANHOLE STEP DETAIL



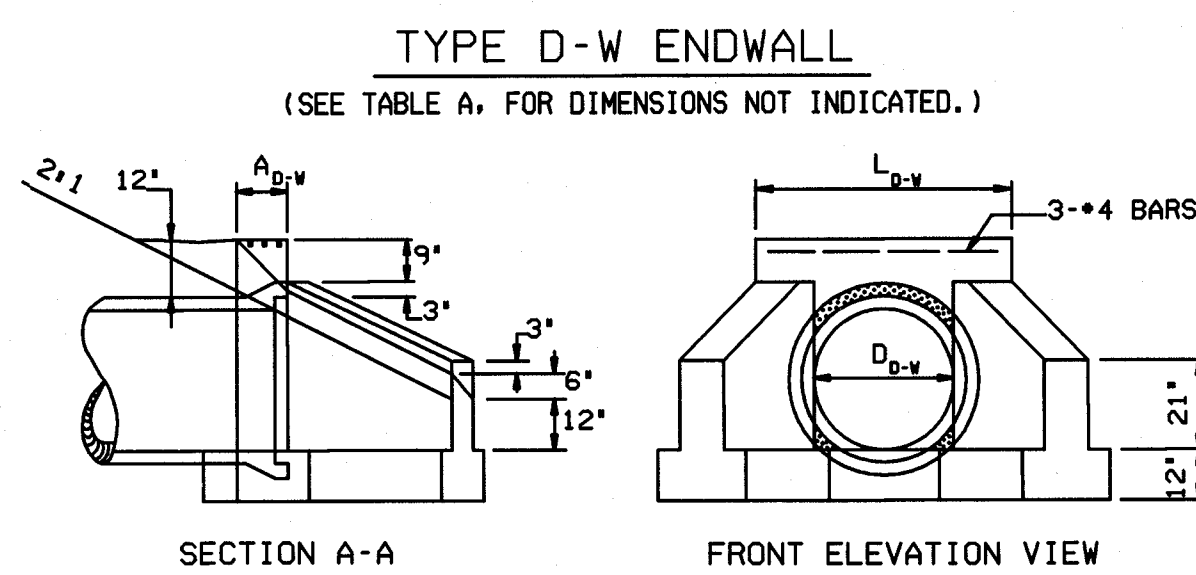
TYPICAL PRECAST SANITARY MANHOLE DETAIL



TYPE 3 INLET



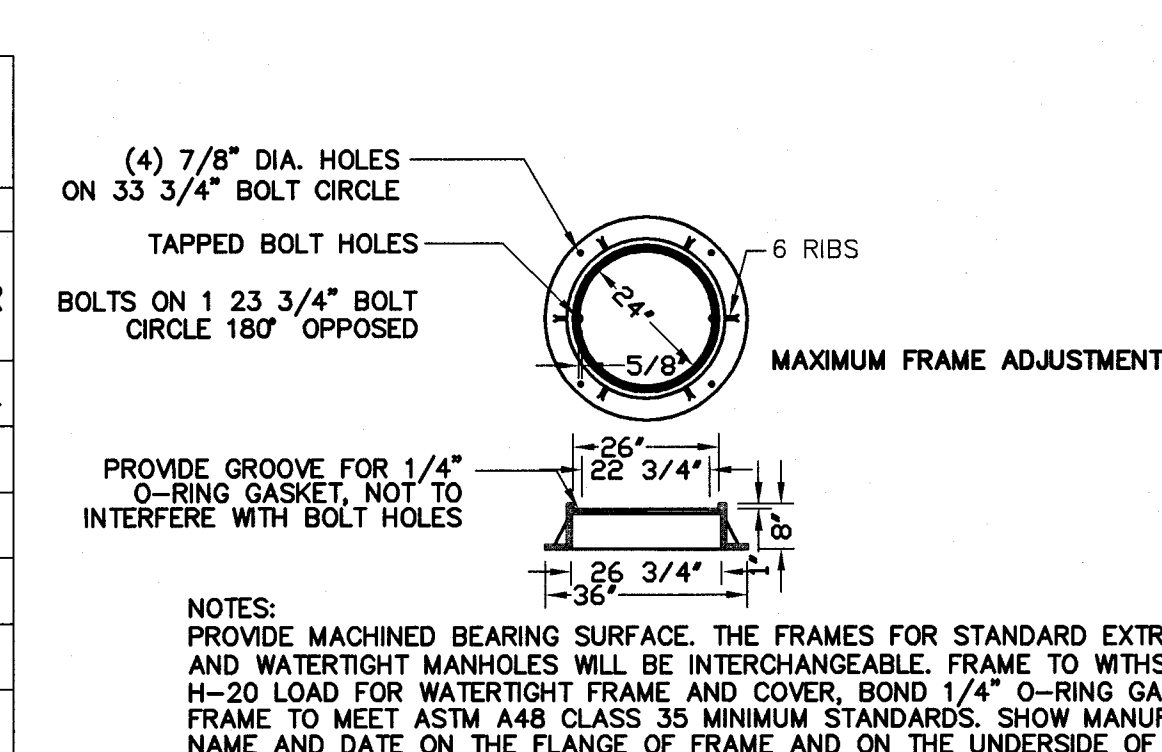
TYPICAL CLEANOUT INSTALLATION



TYPE D-W ENDWALL

- NOTES:
1. PROVIDE STANDARD INLET BOXES AND COVER ADJUSTMENT SLABS WITH A 24" X 46" OPENING TO ACCOMMODATE STANDARD TOP COMPONENTS.
 2. LOCATE PIPE OR PIPES, AS INDICATED, WITH THE INLET BOTTOM SHAPED TO CHANNEL THE FLOW TOWARD THE OUTLET PIPE. WHEN PROJECT CONDITIONS REQUIRE PIPE BLOCKOUTS TO BE FORMED WITHIN 4" FROM THE TOP OF THE INLET BOX, PROVIDE AN ADDITIONAL #3 REINFORCEMENT BAR LOCATED 1-3/4" FROM THE TOP OF THE INLET BASE, FULL WIDTH ALONG THE INLET FACE. REMOVE ANY VISIBLE PORTION OF THE BAR, IF REQUIRED DURING INSTALLATION AND PRIOR TO JOINING THE PIPE TO THE INLET. IF REINFORCED CONCRETE PIPE IS USED, THE PIPE BLOCKOUT MAY BE FORMED 'FLUSH' WITH THE INLET BASE.

MANHOLE NUMBER	TYPE	RIM ELEV.	INVERT	STATION	OFFSET
1	5' DIA	983.77	981.15	10+18.05	12.60' R
2	6' DIA	984.85	978.07	11+03.42	12.28' L
3	5' DIA	980.00	973.25		
4	6' DIA	977.30	969.47		
5	6' DIA	994.05	989.22		
6	6' DIA	984.00	975.19	10+21.31	3.08' R
7	6' DIA	979.00	971.70		



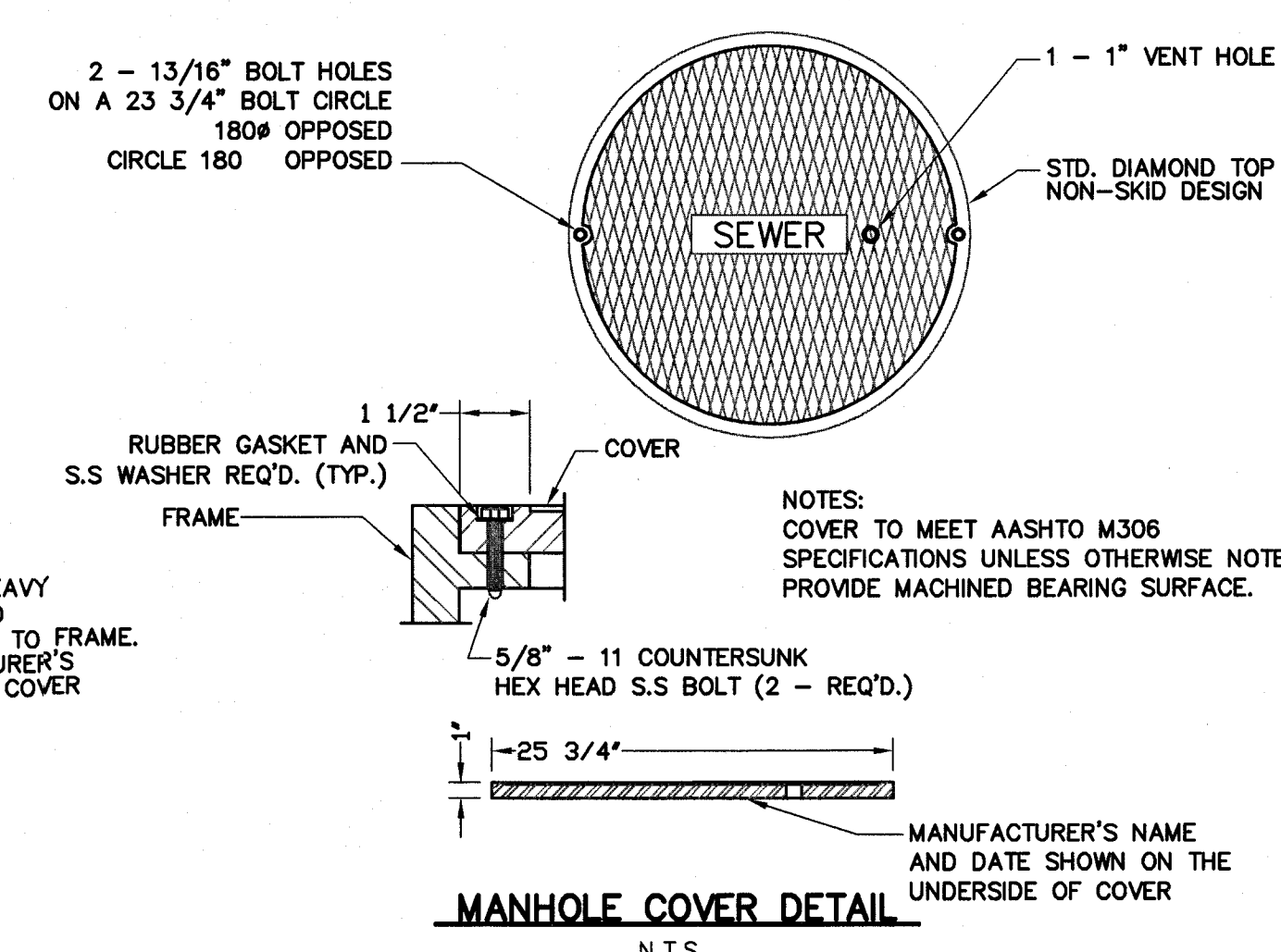
STANDARD MANHOLE FRAME DETAIL



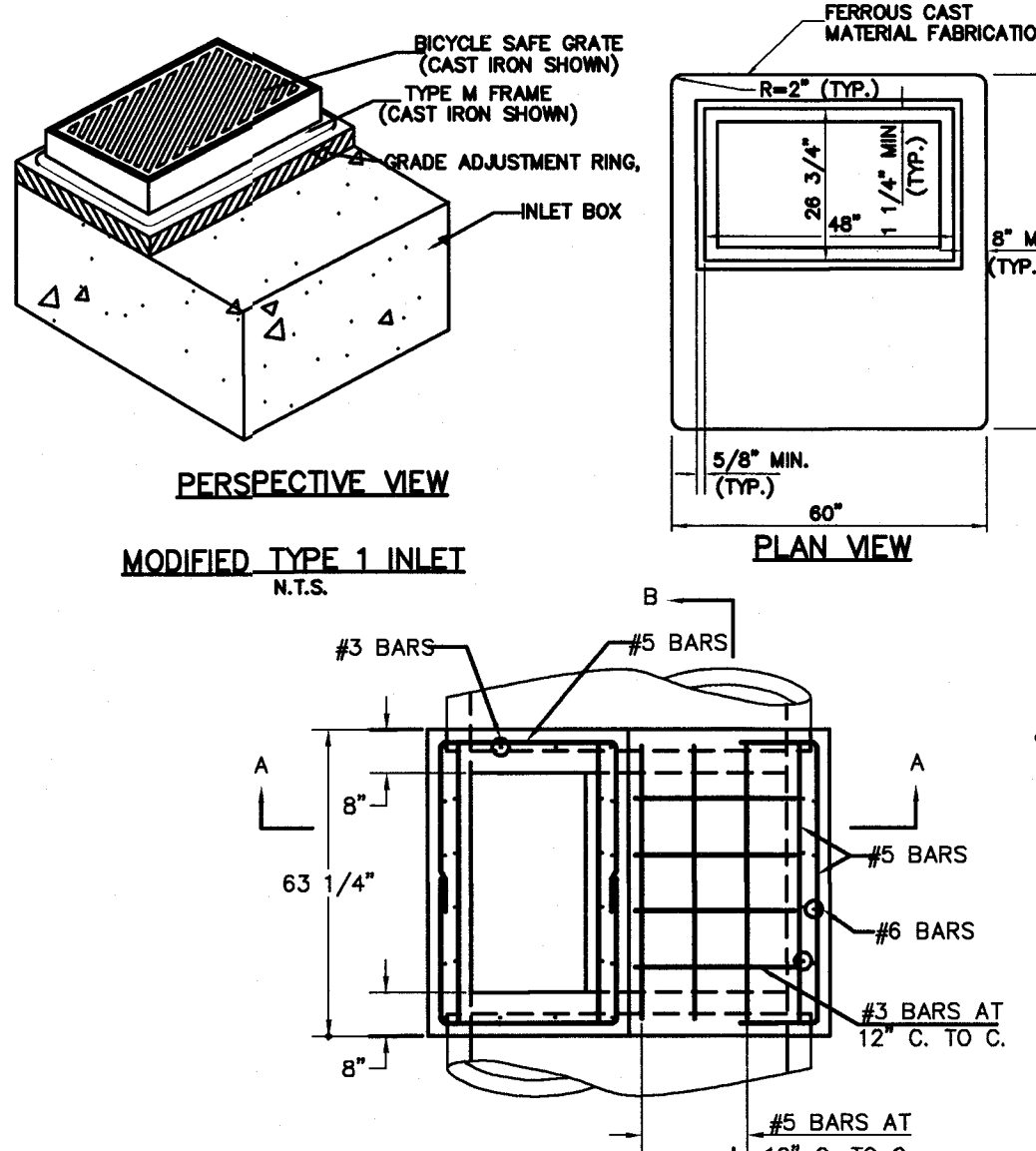
SANITARY SEWER LATERAL DETAIL

MANHOLE NUMBER	TYPE	RIM ELEV.	INVERT	STATION	OFFSET
1	4' DIA	987.18	971.38	12+14.22	10.42' L
1A	4' DIA	987.51	974.99	12+48.52	28.96' R
2	4' DIA	983.92	969.44	10+15.73	9.70' L
3	4' DIA	983.75	968.83	9+34.03	6.24' R
4	4' DIA	978.07	967.40		
5	4' DIA	976.06	967.05		
6	4' DIA	993.00	980.00	5+40.92	6.24' R
7	4' DIA	1017.91	1006.00	1+36.92	6.24' R
8	4' DIA	1021.14	1009.00	0+63.73	6.24' R
9	4' DIA	1021.96	1010.66	0+22.35	6.24' R

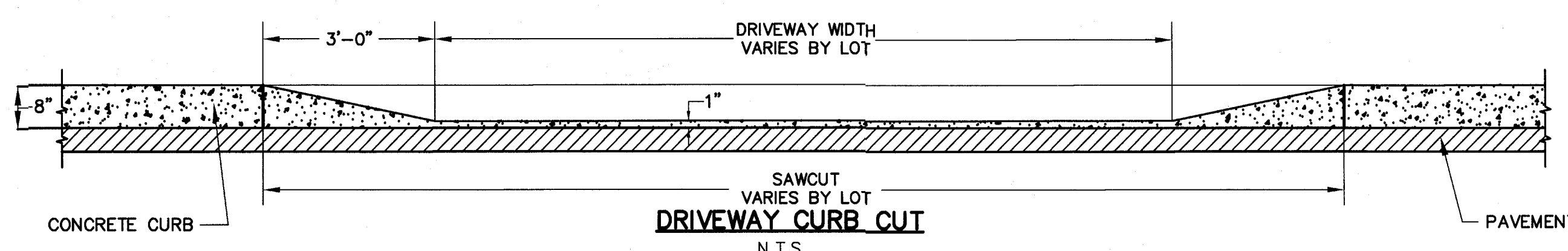
SANITARY MANHOLE SCHEDULE



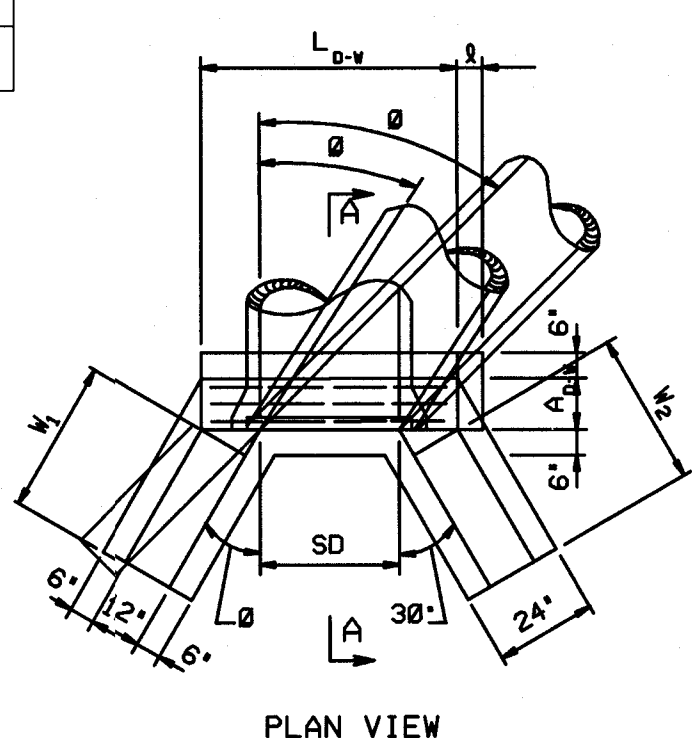
MANHOLE COVER DETAIL



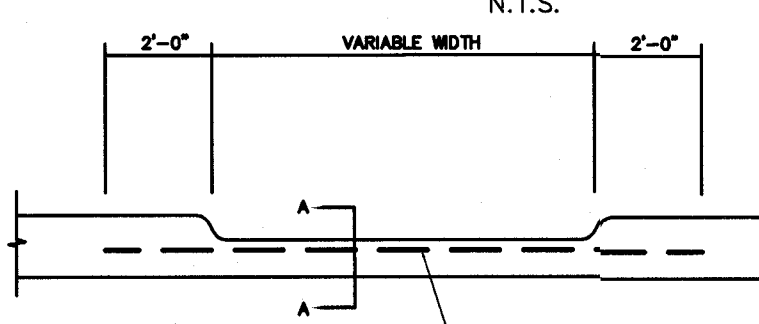
INLET BOX MODIFIED TYPE 1



DRIVEWAY CURB CUT

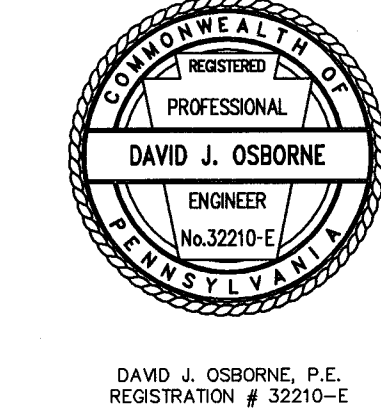


ENTRANCE DRIVE CONCRETE APRON DETAIL



DEPRESSED CURB FOR DRIVES

PIPE DIAMETER	SKED 4" 90° TO 60°	0° 30°
D ₀₋₄ (IN.)	L ₀₋₄ (FT.)	W ₀₋₄ (FT.)
36	5.8	0 4.6
42	6.3	0 5.8
48	6.9	0 6.9
54	7.5	0 8.0
60	8.1	0 9.2
72	9.2	0 11.5



OLD FORGE BOROUGH 3-18-10	DESIGNED	ACB	CHECKED	DJO	DATE	06-09-94
OLD FORGE BOROUGH 8-25-08	DRAWN	CRS	SCALE	NONE	DATE	02-05-08

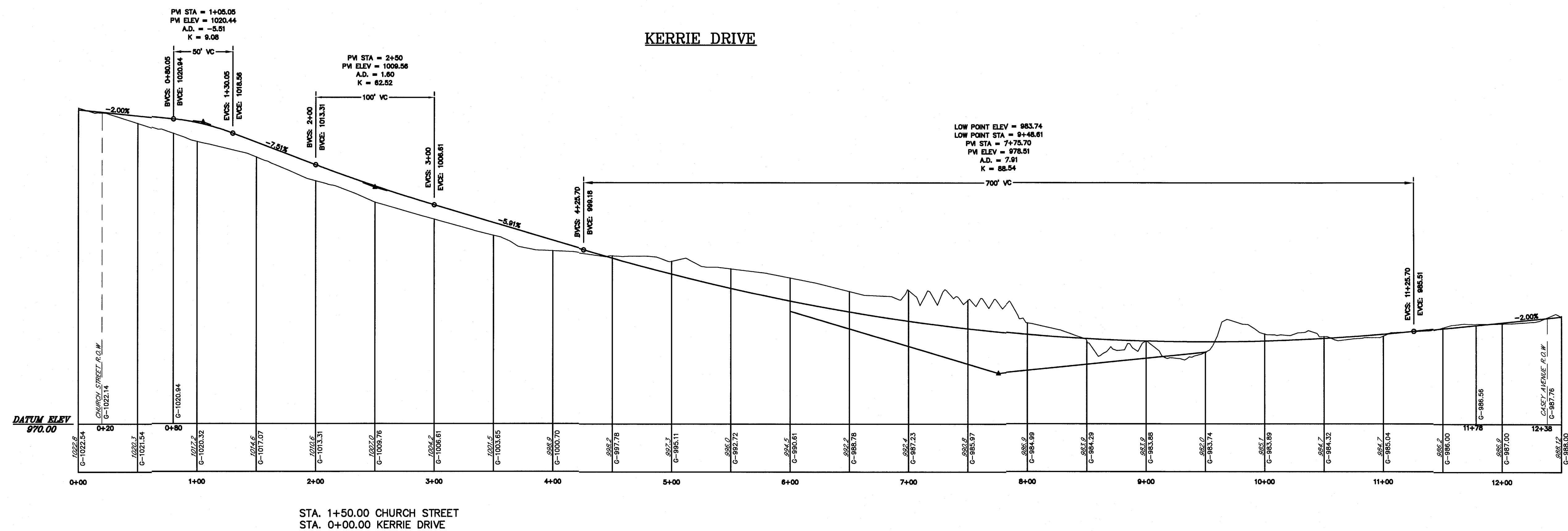
SITE DETAILS

FORGE ESTATES PHASE II

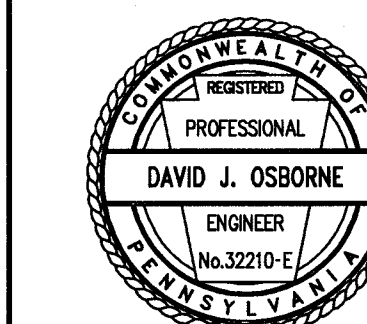
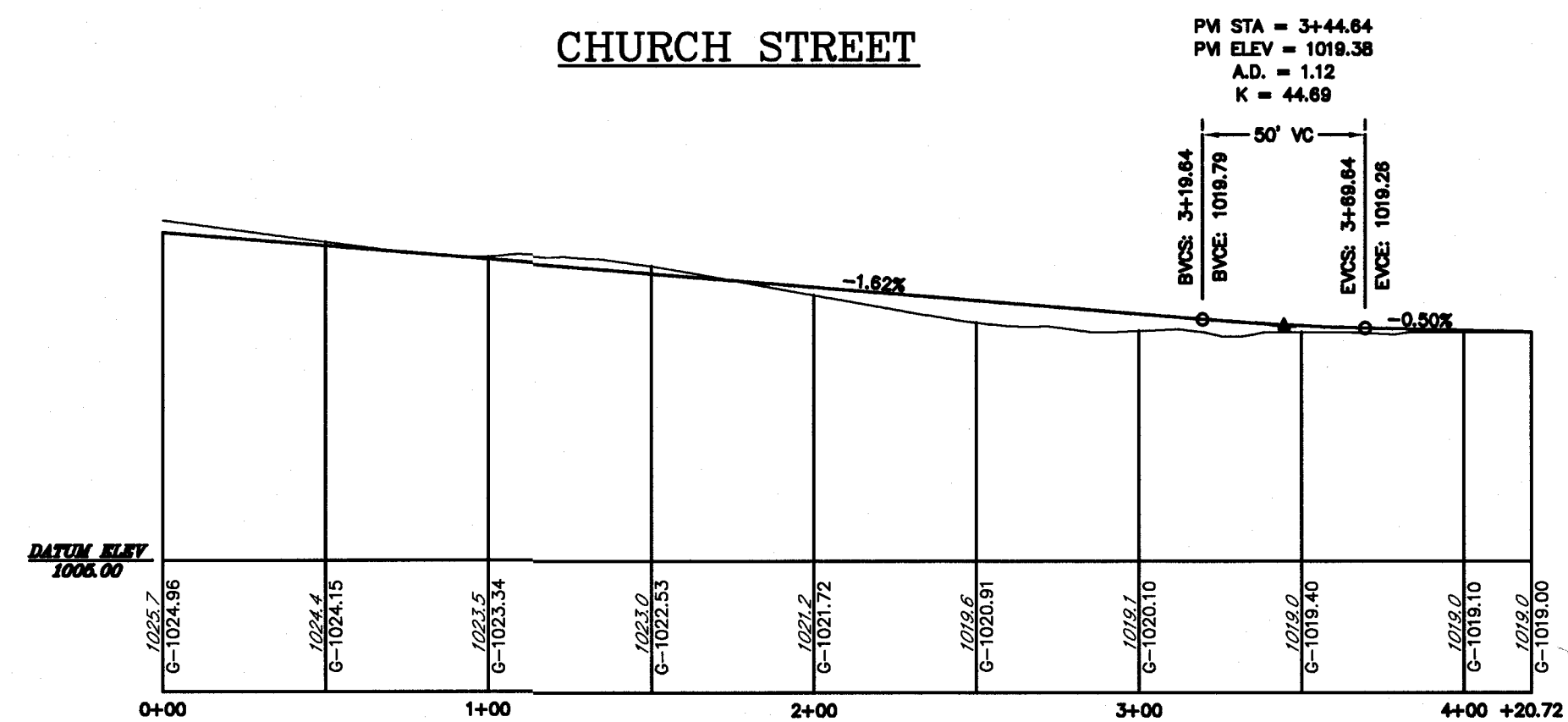
PROPOSED SUBDIVISION/LAND DEVELOPMENT

BOROUGH OF OLD FORGE

LACKAWANNA COUNTY, PENNSYLVANIA

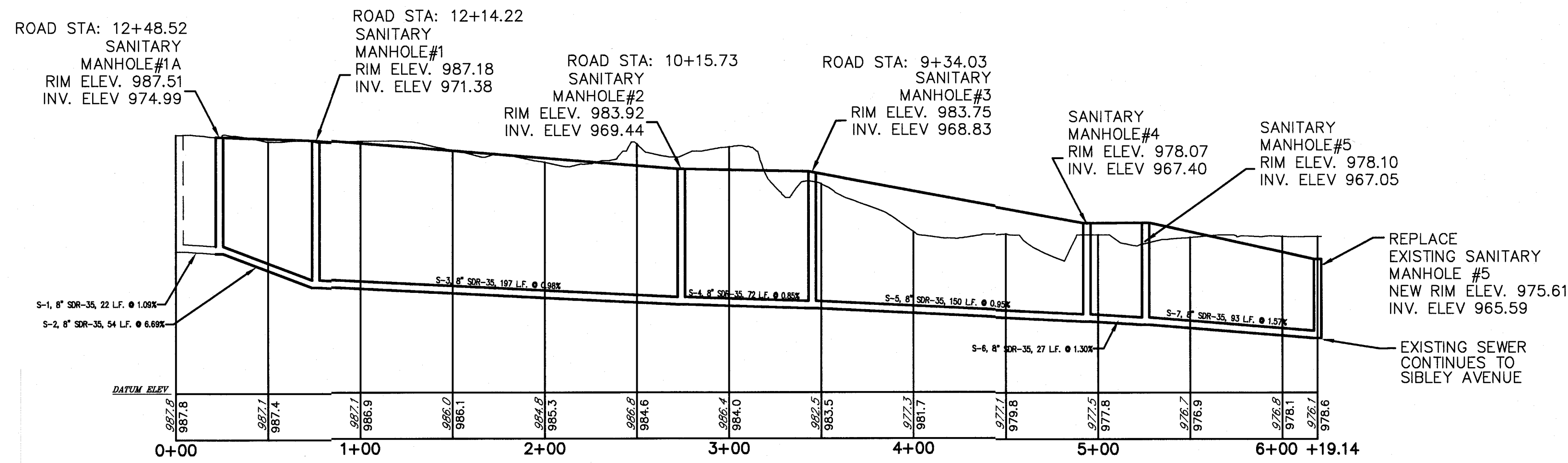


VERTICAL SCALE 1 inch = 10 ft.
HORIZONTAL SCALE 1 inch = 50 ft.

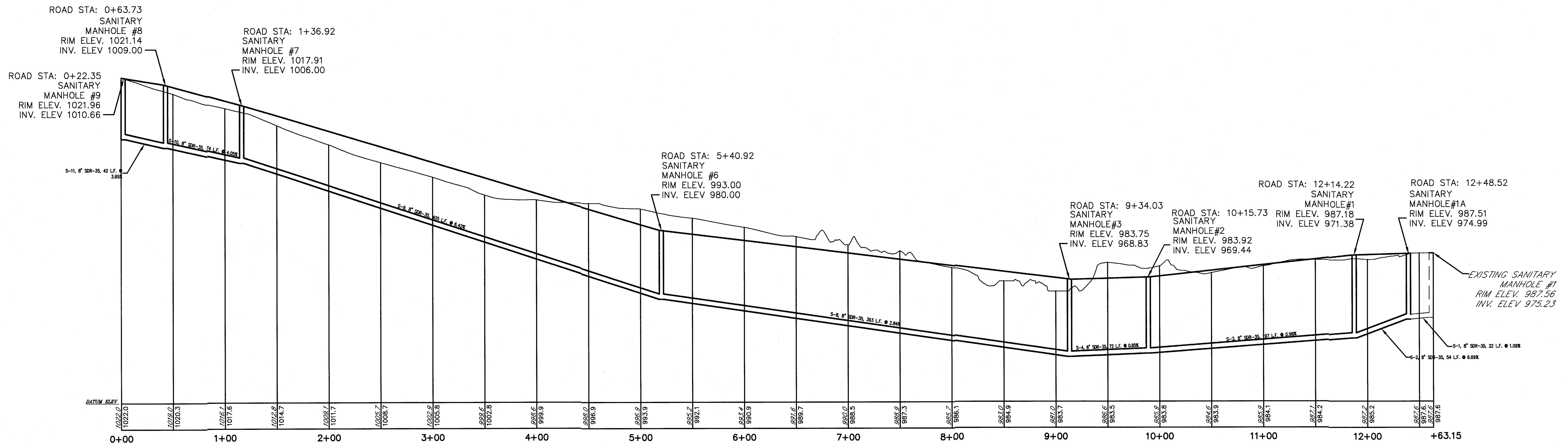


DAVID J. OSBORNE, P.E.
REGISTRATION # 32210-E

ROADWAY PROFILES			
OLD FORGE BOROUGH	3-16-10	DESIGNED	ACB
LOCD	9-29-08	CHECKED	DJO
OLD FORGE BOROUGH	8-25-08	DRAWN	CRS
REVISIONS	DATE	SCALE	AS NOTED
JOB NO.	06-09-94	DATE	02-05-08
consulting engineers			
ceco associates inc.			
p.o. box 995, scranton, pa. 18501 570-342-3101			
SHEET NO. R-1			



SANITARY PROFILE #1



SANITARY PROFILE #2

NOTE: SANITARY PROFILE STATIONING DOES NOT FOLLOW ACTUAL ROAD STATIONING.

VERTICAL SCALE 1 inch = 5 ft.
HORIZONTAL SCALE 1 inch = 50 ft.

DATE: 8/25/08

BY: ACB

CHK'D:

DATE:

CECO ASSOCIATES, INC.

P.O. BOX 995

SCRANTON, PENNSYLVANIA 18501

SH.NO. 1 OF 1

JOB NO. 06-09-94

Forge Estates Phase II

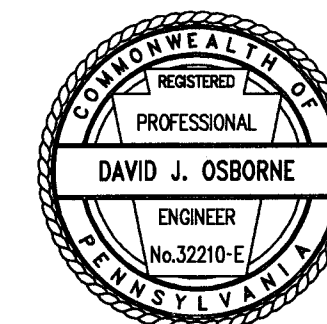
Sanitary Sewage System

SANITARY SEWER SYSTEM DESIGN

DESCRIPTION		FLOW DETERMINATION							SEWER DESIGN										n = 0.013 (MANNING)		
Location	Manhole No.		Units		GPD Per Unit	Domestic Flow (MGD)			Commercial Flow (MGD)	Tot. Peak Flow (MGD)	Length (Feet)	Slope %	Diameter of Pipe	Flowing Full		Peak Flow			Manhole Invert Drop	Invert Elevation	
	From	To	Incr.	Total		Avg. Flow	Peak Factor	Peak Flow						Capacity MGD	Velocity FPS	Depth Inch	Velocity FPS	Fall Feet		Upper End	Lower End
S-1	EX 1	1A	54	54	400	0.022	2.5	0.054		0.054	22.00	1.09%	8	0.822	3.63	0.53	1.11	0.24		975.23	974.99
S-2	1A	1	0	54	400	0.022	2.5	0.054		0.054	54.00	6.69%	8	2.034	8.97	0.21	1.52	3.61	0.00	974.99	971.38
S-3	1	2	1	55	400	0.022	2.5	0.055		0.055	197.00	0.98%	8	0.781	3.44	0.56	1.10	1.94	0.00	971.38	969.44
S-4	2	3	3	58	400	0.023	2.5	0.058		0.058	72.00	0.85%	8	0.724	3.20	0.64	1.11	0.61	0.00	969.44	968.83
S-5	3	4	21	79	400	0.032	2.5	0.079		0.079	150.00	0.95%	8	0.768	3.39	0.82	1.38	1.43	0.00	968.83	967.40
S-6	4	5	0	79	400	0.032	2.5	0.079		0.079	27.00	1.30%	8	0.896	3.95	0.71	1.46	0.35	0.00	967.40	967.05
S-7	5	EX 5	0	79	400	0.032	2.5	0.079		0.079	93.00	1.57%	8	0.986	4.35	0.64	1.52	1.46	0.00	967.05	965.59
S-8	6	3	9	21	400	0.008	2.5	0.021		0.021	393.00	2.84%	8	1.326	5.85	0.13	0.71	11.17	0.00	980.00	968.83
S-9	7	6	10	12	400	0.005	3.5	0.0168		0.017	405.00	6.42%	8	1.994	8.79	0.07	0.70	26.00	0.00	1006.00	980.00
S-10	8	7	2	2	400	8E-04	3.5	0.0028		0.003	74.00	4.05%	8	1.584	6.99	0.01	0.20	3.00	0.00	1009.00	1006.00
S-11	9	8	0	0	400	0	3.5	0		0.000	42.00	3.95%	8	1.564	6.90	0.00	0.00	1.66	0.00	1010.66	1009.00
						</															

FOR PLAN VIEW, SEE SHEET 6 OF 16 AND 7 OF 16

OLD FORGE BOROUGH 3-16-10 LCCD 9-29-08 OLD FORGE BOROUGH 8-25-08	DESIGNED ACB CHECKED DJO ENGINEER 06-09-94	DRAWN CRS SCALE AS NOTED DATE 02-05-08	SANITARY SEWER PROFILES FORGE ESTATES PHASE II PROPOSED SUBDIVISION/LAND DEVELOPMENT BOROUGH OF OLD FORGE LACKAWANNA COUNTY, PENNSYLVANIA consulting engineers p.o. box 995, scranton, pa. 18501 570-342-3101 ceco associates inc®		SHEET NO. S-1
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DAVID J. OSBORNE, P.E.
REGISTRATION # 32210-E

GRADE CONTOUR
PROPERTY LINE
RIGHT-OF-WAY LINE
SANITARY LINE
STORMWATER LINE
WATER LINE
GAS LINE
ELECTRIC LINE
STORMWATER MANHOLE
SANITARY SEWER MANHOLE
WATER VALVE
GAS VALVE
UTILITY POLE
CATCH BASIN
FIRE HYDRANT
BUILDING
EDGE OF PAVEMENT
SIGN
DRAINAGE AREA BOUNDARY
Tc FLOW PATHS

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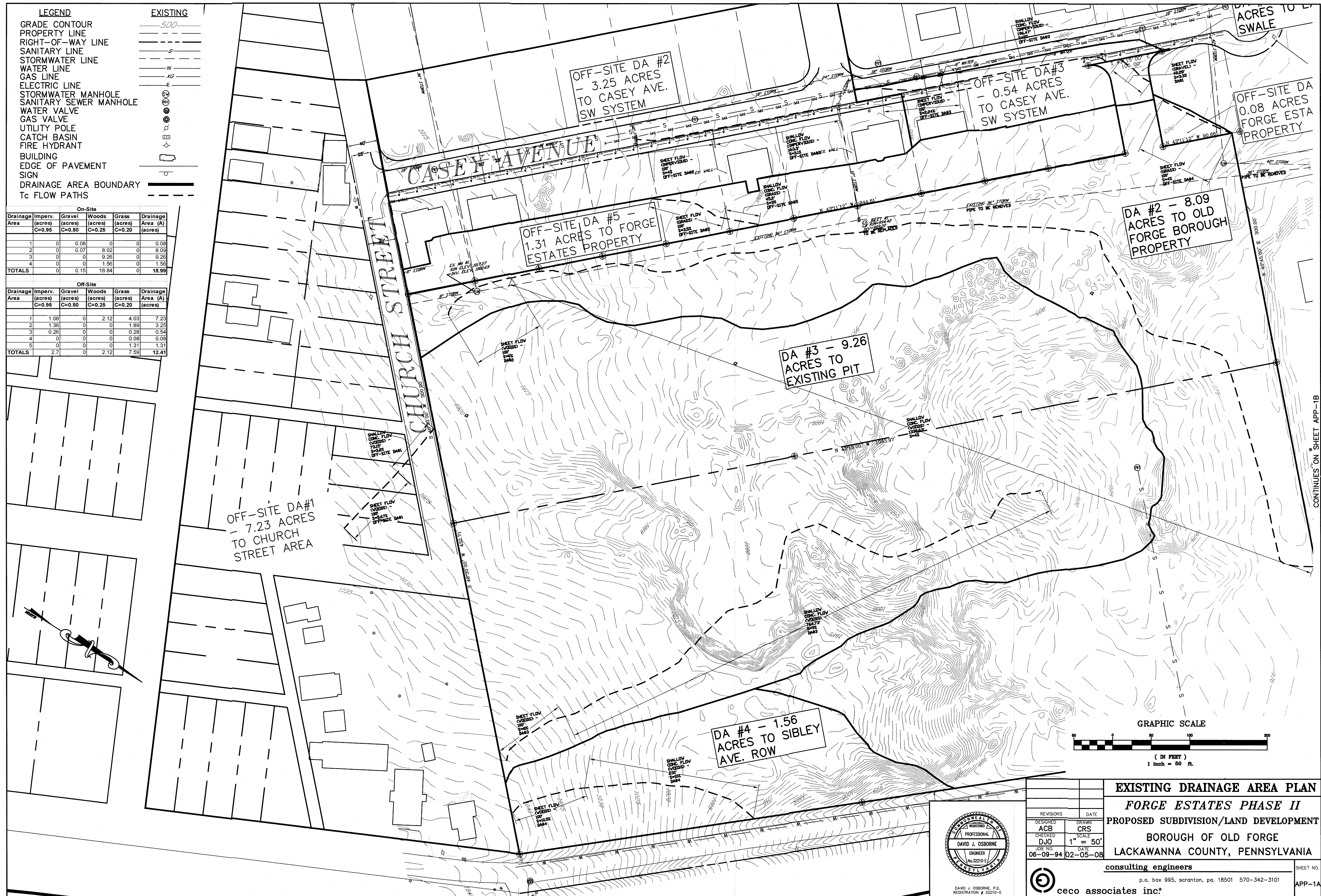
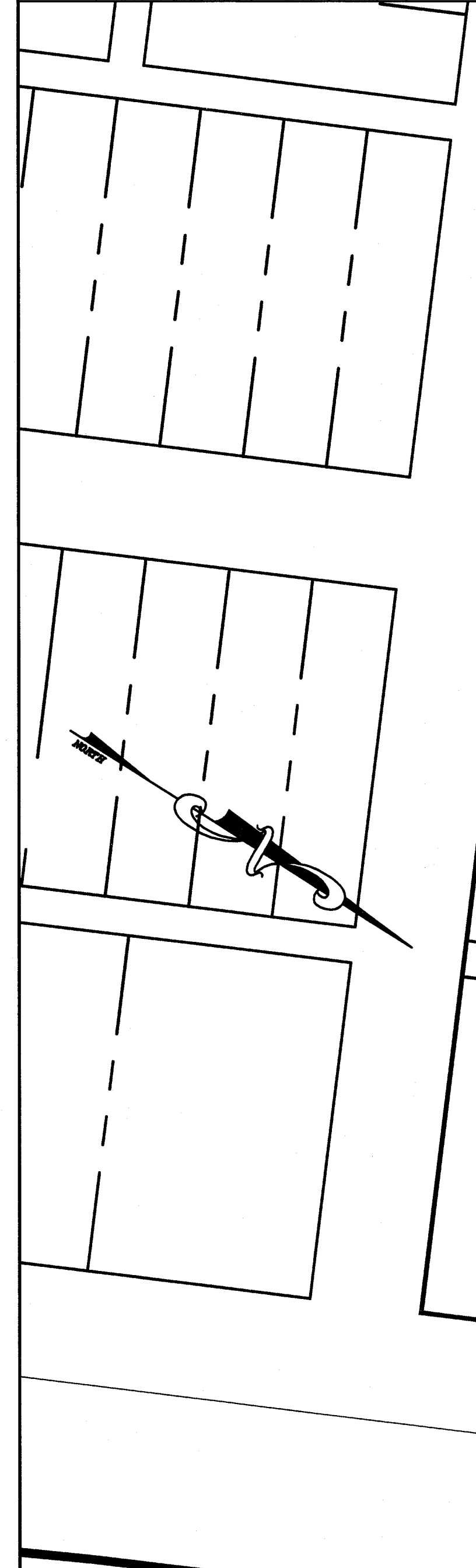
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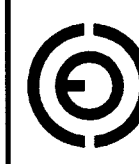
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On-Site					
Drainage Area	Imperv. (acres) C=0.95	Gravel (acres) C=0.80	Woods (acres) C=0.25	Grass (acres) C=0.20	Drainage Area (A) (acres)
1	0	0.08	0	0	0.08
2	0	0.07	8.02	0	8.09
3	0	0	9.26	0	9.26
4	0	0	1.56	0	1.56
TOTALS	0	0.15	18.84	0	18.95

Off-Site					
Drainage Area	Imperv. (acres) C=0.95	Gravel (acres) C=0.80	Woods (acres) C=0.25	Grass (acres) C=0.20	Drainage Area (A) (acres)
1	1.08	0	2.12	4.03	7.23
2	1.36	0	0	1.89	3.25
3	0.26	0	0	0.28	0.54
4	0	0	0	0.08	0.08
5	0	0	0	1.31	1.31
TOTALS	2.7	0	2.12	7.59	12.42



CONTINUES ON SHEET APP-1B

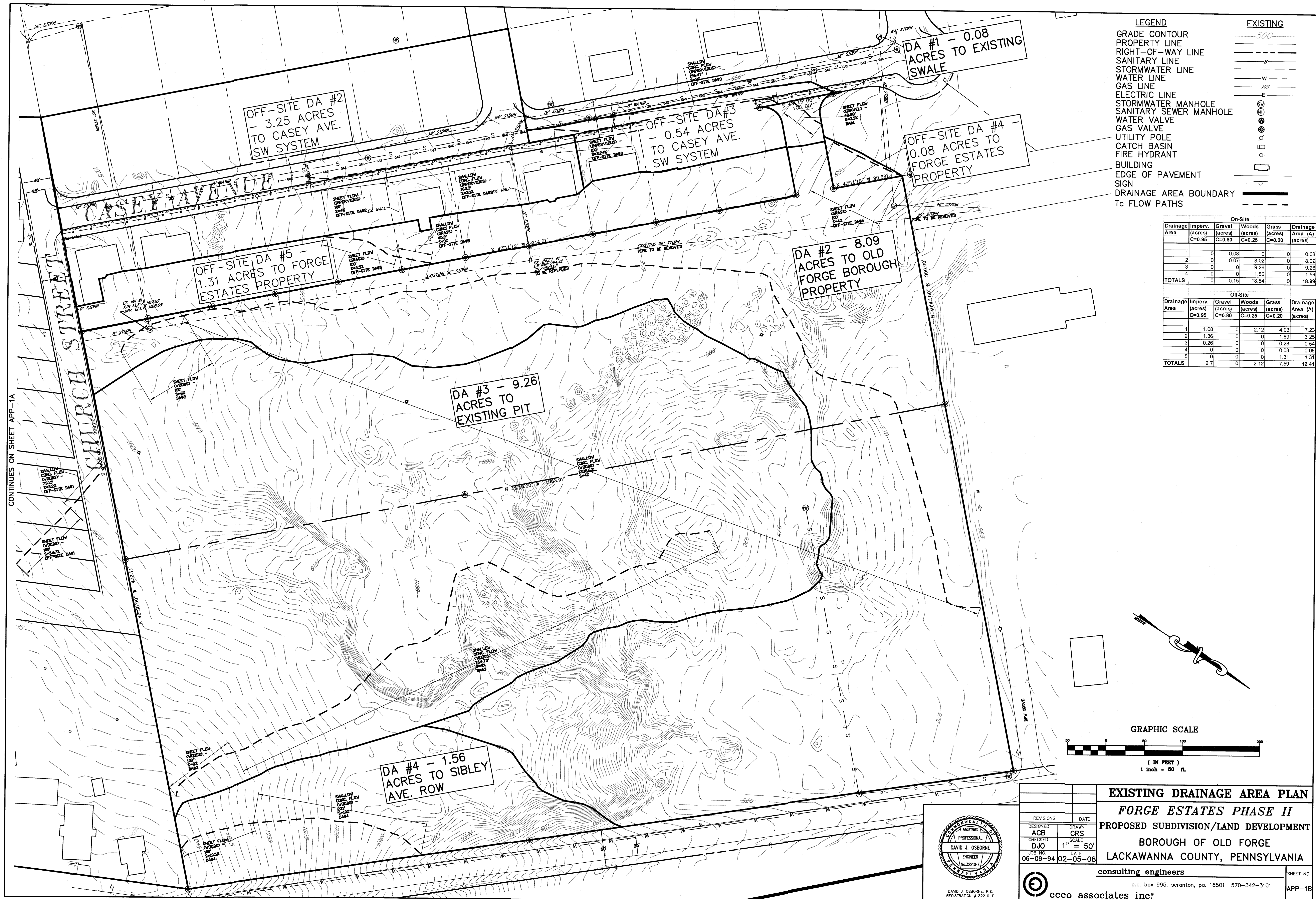


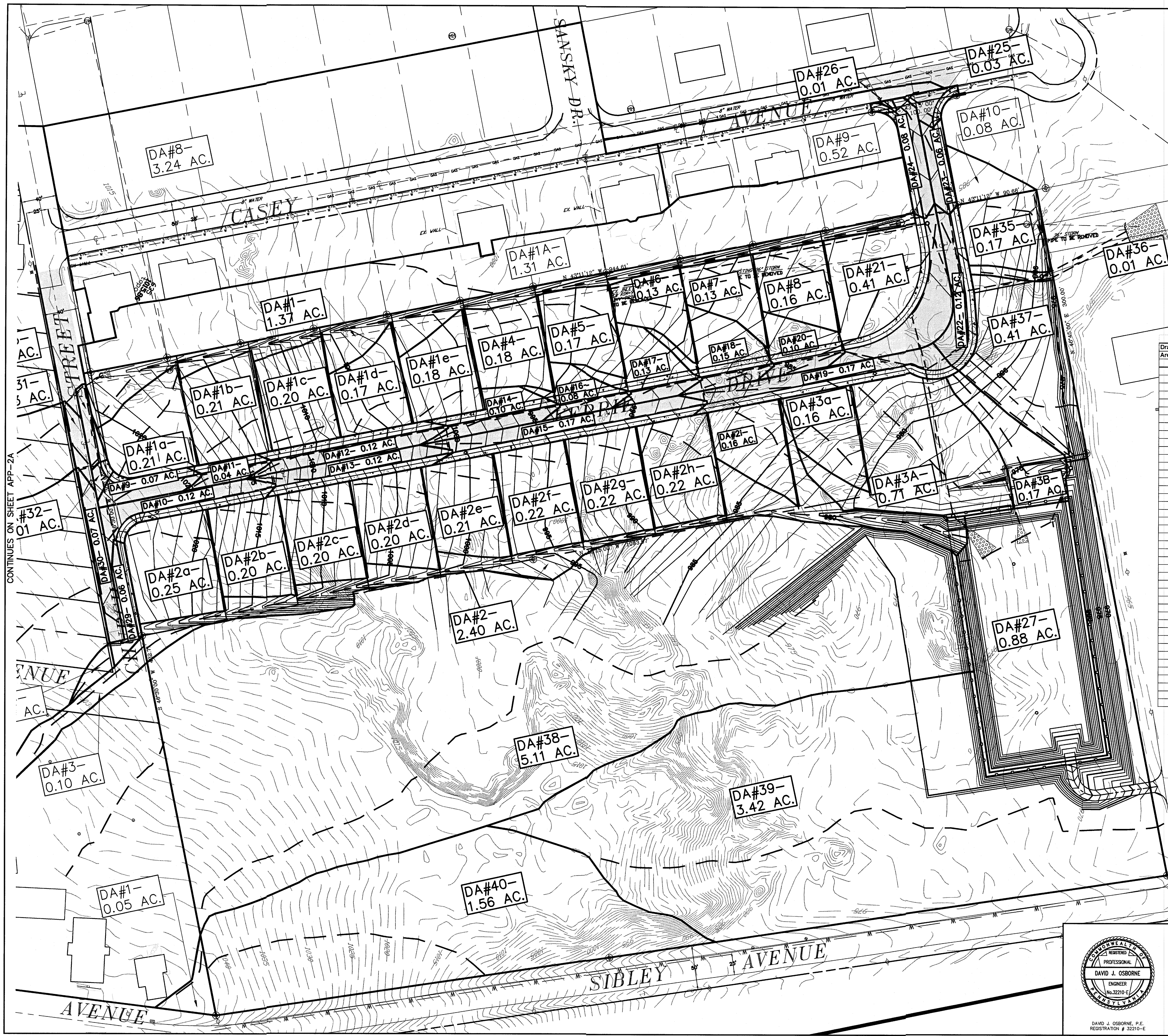
ceco associates inc.®

p.o. box 995, scranton, pa. 18501 570-342-3101

SHEET NO.

APP-1A

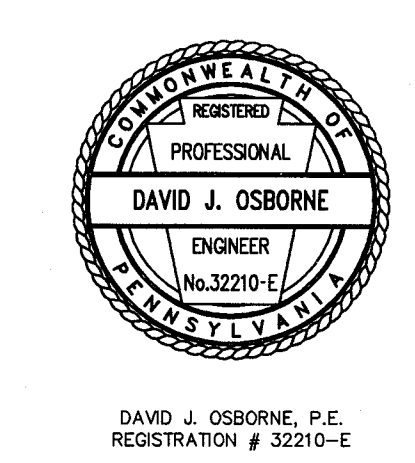
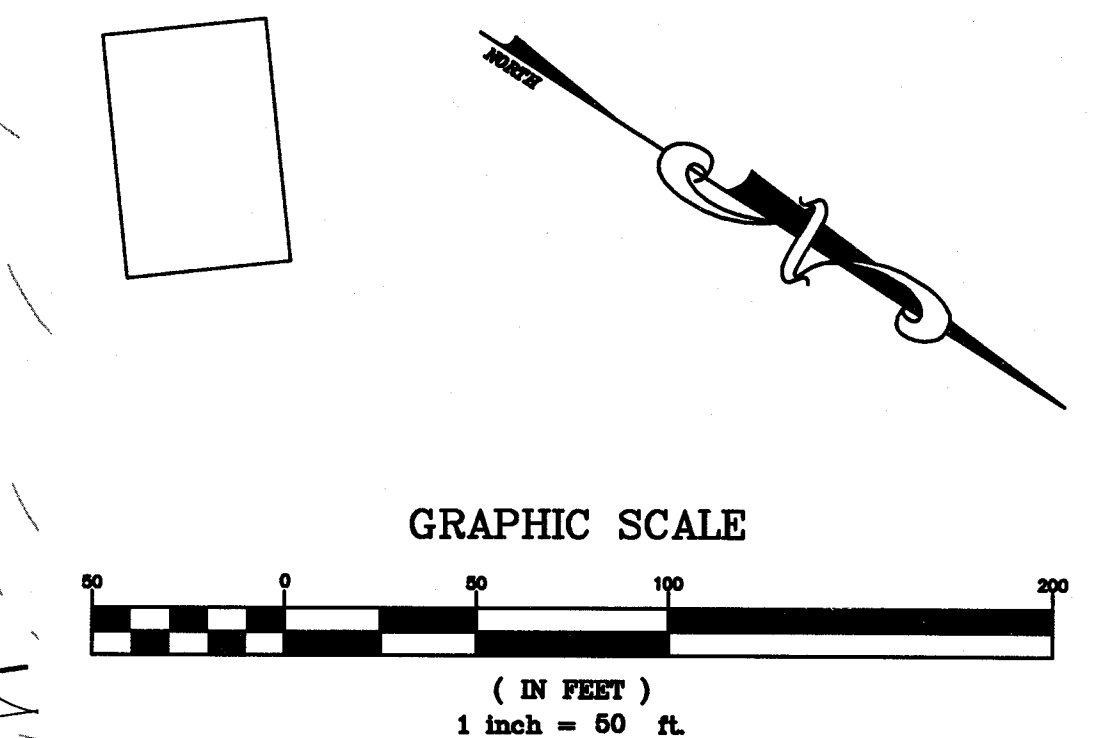




LEGEND

	EXISTING	PROPOSED
GRADE CONTOUR	500	500
PROPERTY LINE	---	---
RIGHT-OF-WAY LINE	---	---
SANITARY LINE	---	---
STORMWATER LINE	---	---
WATER LINE	---	---
GAS LINE	---	---
ELECTRIC LINE	---	---
CATCH BASIN	---	---
STORMWATER MANHOLE	---	---
SANITARY SEWER MANHOLE	---	---
WATER VALVE	---	---
GAS VALVE	---	---
UTILITY POLE	---	---
CATCH BASIN	---	---
FIRE HYDRANT	---	---
BUILDING	---	---
EDGE OF PAVEMENT	---	---
SIGN	---	---
CURB	---	---
SIDEWALK	---	---
PAVEMENT	---	---
ROCK OUTLET PROTECTION	---	---
RIP RAP PROTECTION	---	---
FLOW ARROW	---	---
DRAINAGE AREA BOUNDARY	---	---
Tc FLOW PATHS	---	---

On-Site										Sub-Areas									
Drainage Area	Imperv. (acres)	Gravel (acres)	Woods (acres)	Grass (acres)	Drainage Area (A)	Drainage Area	Imperv. (acres)	Gravel (acres)	Woods (acres)	Grass (acres)	Drainage Area (A)	Drainage Area	Imperv. (acres)	Gravel (acres)	Woods (acres)	Grass (acres)	Drainage Area (A)		
	C=0.95	C=0.80	C=0.25	C=0.20	(acres)		C=0.95	C=0.80	C=0.25	C=0.20	(acres)		C=0.95	C=0.80	C=0.25	C=0.20	(acres)		
1	0.42	0	0	0.95	1.37	1a	0.1	0	0	0.11	0.21	2	0.74	0	0	0.13	0.21		
3A	0.22	0	0	0.49	0.71	1c	0.08	0	0	0.12	0.2	3B	0.04	0	0	0.09	0.17		
4	0.08	0	0	0.1	0.18	1e	0.08	0	0	0.1	0.18	5	0.08	0	0	0.15	0.25		
6	0.05	0	0	0.08	0.13	2a	0.1	0	0	0.12	0.2	7	0.04	0	0	0.12	0.2		
8	0.08	0	0	0.08	0.16	2d	0.08	0	0	0.12	0.2	9	0.07	0	0	0.13	0.21		
10	0.12	0	0	0	0.12	2f	0.08	0	0	0.14	0.22	11	0.04	0	0	0.14	0.22		
12	0.12	0	0	0	0.12	2g	0.08	0	0	0.14	0.22	13	0.12	0	0	0.14	0.22		
14	0.07	0	0	0.03	0.1	2i	0.08	0	0	0.08	0.16	15	0.17	0	0	0.08	0.16		
16	0.04	0	0	0.04	0.08	3a	0.08	0	0	0.08	0.16	17	0.08	0	0	0.05	0.05		
18	0.09	0	0	0.06	0.15							19	0.17	0	0	0.07	0.03		
20	0.04	0	0	0.06	0.1							21	0.24	0	0	0.07	0.03		
21	0.24	0	0	0.17	0.41	1	0	0	0	0.05	0.05	22	0.12	0	0	0.07	0.03		
22	0.12	0	0	0	0.12	3	0	0	0	0.03	0.03	23	0.06	0	0	0.03	0.03		
23	0.06	0	0	0	0.06	4	0	0	0	0.03	0.03	24	0.08	0	0	0.08	0.1		
24	0.08	0	0	0	0.08	5	0.2	0	0.56	1.81	2.57	25	0.03	0	0	0.03	0.03		
25	0.03	0	0	0	0.03	6	0.07	0	0.2	0.23	0.5	26	0.01	0	0	0.01	0.01		
26	0.01	0	0	0	0.01	7	0.5	0	0.49	0.78	1.77	27	0	0	0	0.88	0.88		
27	0	0	0	0.88	0.88	8	1.36	0	0	1.38	3.24	28	0.06	0	0	0.06	0.06		
28	0.06	0	0	0	0.06	9	0.26	0	0	0.26	0.52	29	0.07	0	0	0.07	0.07		
29	0.07	0	0	0	0.07	1A	0	0	0	1.31	1.31	30	0.03	0	0	0.03	0.03		
30	0.03	0	0	0	0.03	Total	2.7	0	2.12	7.32	12.14	31	0.01	0	0	0.01	0.01		
31	0.01	0	0	0	0.01							32	0.03	0	0	0.03	0.03		
32	0.03	0	0	0	0.03							33	0.07	0	0	0.1	0.17		
33	0.07	0	0	0.1	0.17							34	0.12	0	0	0.29	0.41		
34	0.12	0	0	0.29	0.41							35	0	0	0	0.94	5.11		
35	0	0.05	2.65	0.72	3.42							36	0	0	0	2.65	3.42		
36	0	0	1.56	0	1.56							37	0	0	0	1.56	1.56		
37	0	0	0	0	0							38	0	0	0	0	0		
38	0	0	0	0	0							39	0	0	0	0	0		
39	0	0	0	0	0							40	0	0	0	0	0		
40	0	0	0	0	0							Total	3.81	0.05	8.38	7.02	19.26		



REVISIONS		DATE
DESIGNED	ACB	CRS
CHECKED	DJO	1" = 50'
JOB NO.	06-09-94	02-05-08

PROPOSED DRAINAGE AREA PLAN
FORGE ESTATES PHASE II
PROPOSED SUBDIVISION/LAND DEVELOPMENT
BOROUGH OF OLD FORGE
LACKAWANNA COUNTY, PENNSYLVANIA

consulting engineers
p.o. box 995, scranton, pa. 18501 570-342-3101
cenco associates inc.

SHEET NO. APP-2B

BOUNDARY TAKEN FROM
MAP OF RENDHAM HEIGHTS
AS RE-ALLOTTED FOR
MAX DATTNER
D.B.A. UNITED REALTY CO.
DATED NOV. 1926
BY STUDEVANT-DILLY ENG. CO. LTD.
RECORDED IN LACKAWANNA CO.
MAP BOOK 4 PAGE 96
DEC 1, 1926

BOUNDARY TAKEN FROM
FORGE ESTATES MAPPING

LANDS N/F OF
FORGE ESTATES

Lackawanna County Recorder of Deeds
Instrument Filings
Receipt# 541037
Instr# 2302-036491 11/20/2002 11140446
Remarks: FORGE ESTATE
38

MAPS 24.00
MAPS-WRIT 1.00
PARCEL TO NUMBER 10.00
DB IMPROVEMENT FND 2.00
REL. IMPROVEMENT FND 3.00
Check 1.25 940.00
Total Received..... 946.00

ZONING REQ'TS. "R-1"
FRONT SB=50 FT
REAR SB=30 FT
SIDE SB=7 FT
MIN FRT'G.=80 FT
MIN DEPTH=100 FT
MIN AREA=9,000 SF
MAX. IMP.=35%

ZONING REQ'TS. "R1-A"
FRONT SB=50 FT
REAR SB=30 FT
SIDE SB=7 FT
MIN FRT'G.=40 FT
MIN DEPTH=100 FT
MIN AREA=6,000 SF
MAX. IMP.=35%

ZONING REQ'TS. "C-2"
FRONT SB=100 FT
REAR SB=50 FT
SIDE SB=40 FT
MIN FRT'G.=100 FT
MIN DEPTH=200 FT
MIN AREA=40,000 SF
MAX. IMP.=25%

LANDS N/F OF
PINECREST ASSOCIATES, INC.

BOUNDARY PLOTTED FROM CECO
ASSOCIATES INC. MAPPING
WHICH MATCHES METES & BOUNDS
OF MAP BY MICHAEL PASONICK, JR., INC.
IN MAP BOOK 6 PG 2399
RECORDED 3 APRIL 1997
ZONED C-3

Recorded in the office for Recorder of Deeds
in and for Lackawanna County, Pennsylvania
Book 6A Page 3989
Without my hand and seal of this office the
20th day of November 2002
Cecilia J. Spitzer-Melnyk
Recorder of Deeds

OWNER CERTIFICATION

IT IS HEREBY CERTIFIED THAT THE UNDER SIGNED
HAVE LEGAL & EQUIPABLE TITLE TO THE LANDS SHOWN.

Robert C. Mendola, President

SIGNED AND SUBSCRIBED BEFORE ME, *My Commission Expires Sept. 12, 2004*

THIS 22 DAY OF Dec 2002

RECORDED IN LACKAWANNA COUNTY RECORDER OF DEEDS

MAP BOOK PAGE
THIS DAY OF 2001.

OLD FORGE BOROUGH COUNCIL

FINAL APPROVAL

Robert C. Mendola 9/19/02
PRESIDENT DATE
Margaret Mangin 9/19/02
SECRETARY DATE

NOTE: THIS DRAWING GRAPHICALLY DEPICTS A MOSAIC
OF ADJOINING SUBDIVISIONS TO DETERMINE IF
THE OLD FORGE BOROUGH WILL ENTERTAIN A
CHANGE IN THE ZONING FOR THE SUBJECT PARCEL
AS PRESENTED. FIELD WORK HAS NOT YET BEEN
ACCOMPLISHED TO RELEGATE THE TOTAL ACCURACY
OF THE METES AND BOUNDS GEOMETRY, THE SIGHT
DISTANCES FOR H.O.P. OR THE FEASIBILITY OF THE
TOPOGRAPHY WITH BOUNDARY LOCATIONS SHOWN.

LACKAWANNA COUNTY
Certified PROPERTY IDENTIFICATION NUMBER
MUNICIPALITY 29
PIN: 16520-030-002
USE: 6500 ASSESS VAL: 48000
DATE 11-26-02
CLERK

REV-3	DESC: SHOW APPROXIMATE AREAS OF REZONED SECTIONS	DATE: 25-JUL-02
REV-2	DESC: REVISE "FORGE ESTATES" LOTS FOR ROADWAY	DATE: 14-JUN-02
REV-1	DESC: PLOT PROPOSED ZONING CHANGE & LAND DEVELOPMENT	DATE: 04-MAY-02
REV-0	DESC: PLOT DEED AND MAPPING DATA	DATE: 18-APR-02

MENDOLA & ASSOCIATES SURVEYORS AND LAND DEVELOPERS 1107 MILL STREET DUNMORE, PA 16812 (870) 846-8248		MAP-BLOCK-LOT - 165.20-050-020 MUNICIPALITY - OLD FORGE COUNTY - LACKAWANNA STATE - PENNSYLVANIA	
REQUEST FOR ZONING CHANGE SUBMISSION LANDS N/F OF FORGE ESTATES 602 CENTER STREET TAYLOR, PA 18517 (DB 1260 PG 190)			
SCALE: 1"=100'	PLOTTED: 05-04-02	DRAWN BY: R.D.S.	JOB NO: SIBLEY
SHEET NO. 1 OF 1		DWG. NO.	
BARS SCALE 0' 100' 200' 300'			
ROBERT C. MENDOLA, P.L.S. <i>Robert C. Mendola</i>			
RZC			