

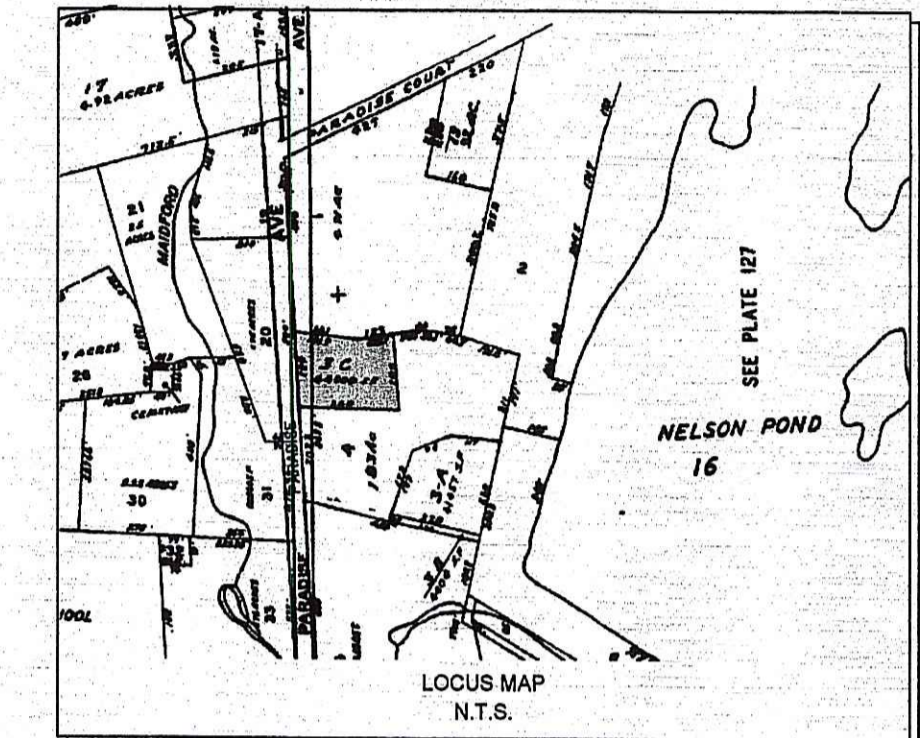
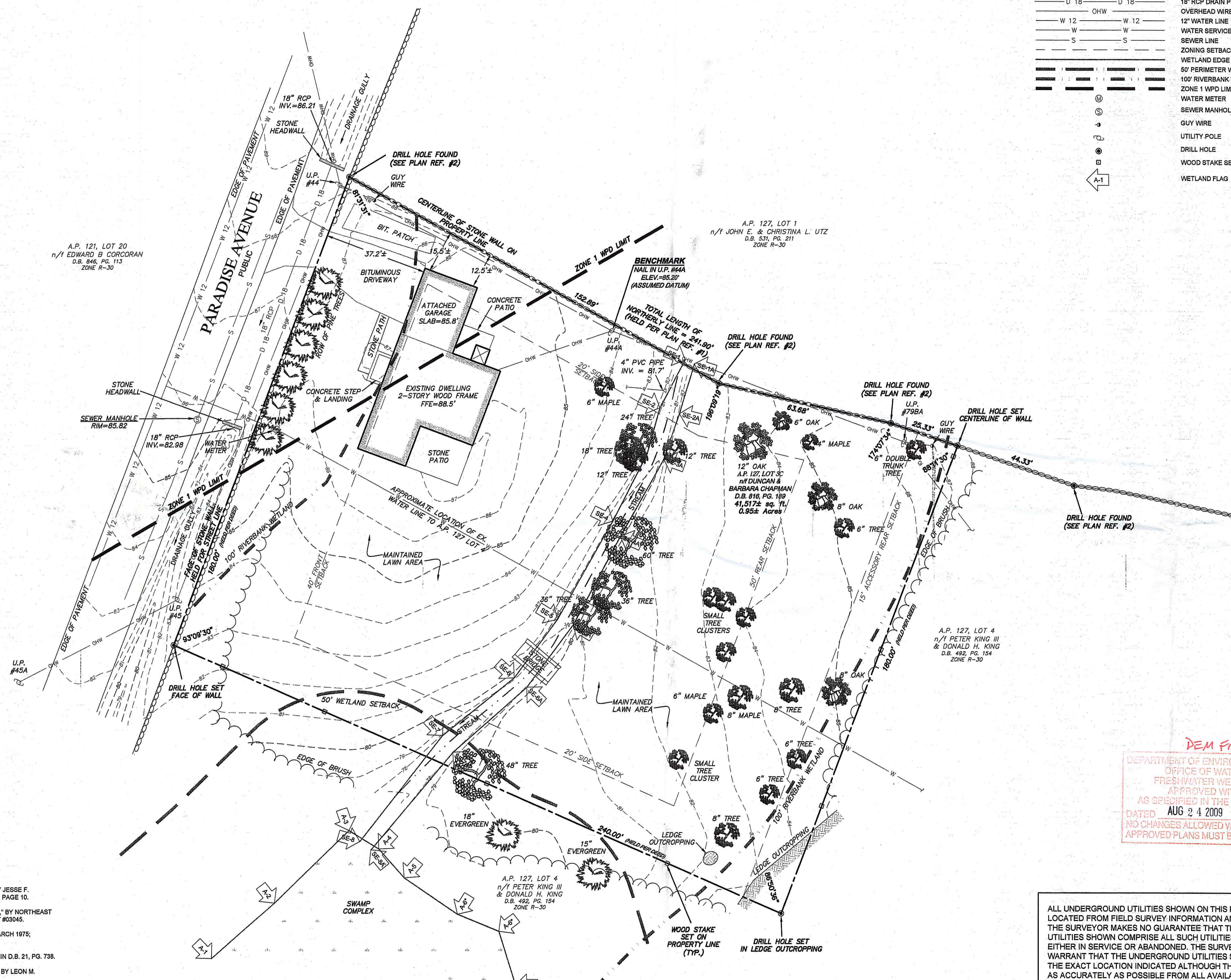
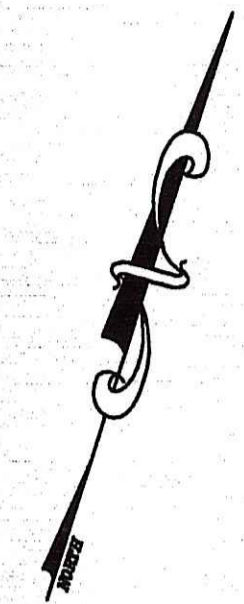
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 PHONE (401) 849-0810 FAX (401) 846-4169
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- SITE/CIVIL
- LAND PLANNING
- WATERFRONT
- SURVEYING
- GEOTECHNICAL
- ENVIRONMENTAL
- TRANSPORTATION
- STRUCTURAL
- MATERIALS TESTING

LEGEND:

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXISTING CONTOUR
- STREAM
- STONE WALL
- BRUSH LINE
- 18" RCP DRAIN PIPE
- OVERHEAD WIRE
- 12" WATER LINE
- WATER SERVICE LINE
- SEWER LINE
- ZONING SETBACK
- WETLAND EDGE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- ZONE 1 WPD LIMIT LINE
- WATER METER
- SEWER MANHOLE
- GUY WIRE
- UTILITY POLE
- DRILL HOLE
- WOOD STAKE SET
- WETLAND FLAG



THIS SURVEY AND PLAN CONFORM TO A CLASS 1 STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

DATE: / /

BY: _____
 REGISTERED PROFESSIONAL LAND SURVEYOR

No.	Revision	Date	App.

Designed By: GES Drawn by: SMH Checked by: _____
 Scale: 1"=20' Date: JULY 09

Project Title:
CHAPMAN RESIDENCE
 A.P. 127, LOT 3C
 #566 PARADISE AVENUE
 MIDDLETOWN, RHODE ISLAND

Client/Owner:
 DUNCAN & BARBARA CHAPMAN
 108 EAST 85TH STREET APT. 2N
 NEW YORK, NY 10028

Issued for:
 PERMITTING

Drawing Title:
EXISTING SITE PLAN

Stamp: AUG 18 2009

Drawing Number:
L-1

Sheet **1** of **5**

Project Number:
06244.0

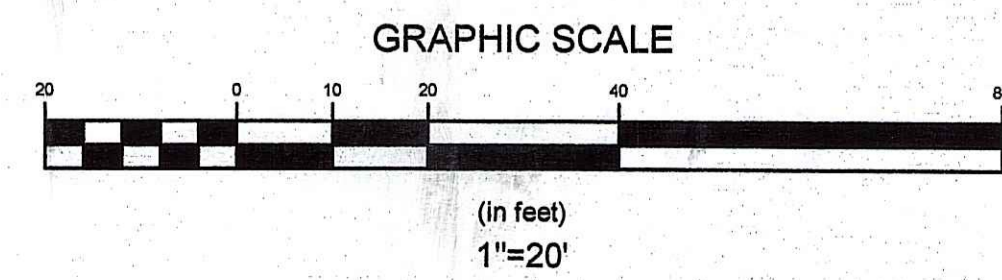
Survey Index:
 -

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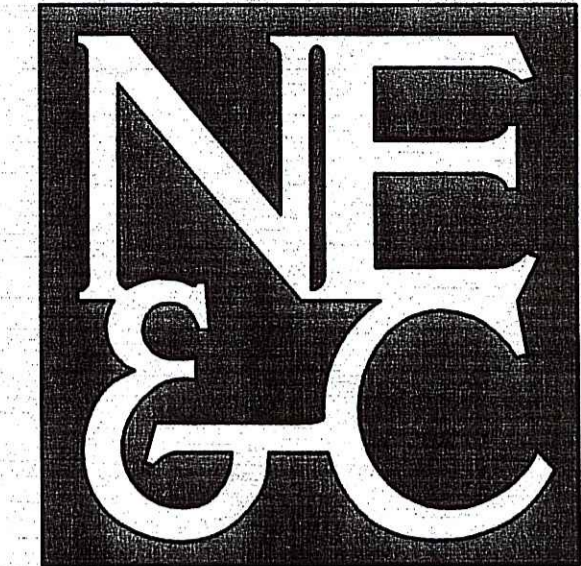
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 24 2009 FILE # 08-047
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT DPM'S AUCI ON SITE

ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES)

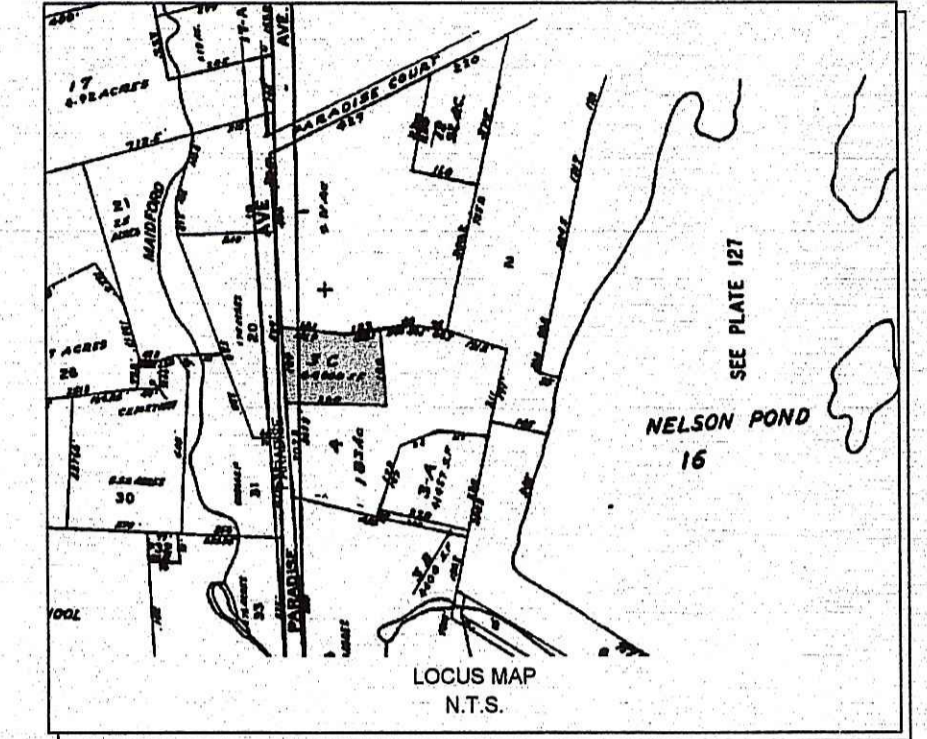


- PLAN REFERENCES:**
- "PLAN OF LAND OF PETER & LINDY KING, PARADISE AVE, MIDDLETOWN, R.I." BY JESSE F. METCALF, JR., DATED NOV. 14, 1977, SCALE: 1"=40', RECORDED IN PLAN BOOK 13, PAGE 10.
 - "PROPERTY LINE SURVEY & TOPOGRAPHIC PLAN OF LAND FOR A.P. 127, LOT 1," BY NORTHEAST ENGINEERS & CONSULTANTS, INC., DATED FEB. 21, 2003, SCALE: 1"=30', PROJECT #03045.
 - "PORTION PETER & LINDY M. KING LAND, PARADISE AVE," BY LYNCH, DATED MARCH 1975; REVISED JULY 1975; RECORDED IN PLAN BOOK 12, PAGE 22-23.
 - "GRAY CRAIG," A PLAN PREPARED BY COTTON, DATED JUNE 1913; RECORDED IN D.B. 21, PG. 738.
 - "SITE PLAN OF PROPOSED SUBDIVISION FOR DOUGLAS & KATHLEEN WILSON," BY LEON M. SHAW, RECORDED PLAN #95-2.
- NOTES:**
- BASE OF ELEVATIONS: ASSUMED DATUM
 - NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 - WATER LINE TO A.P. 127, LOT 4 SCALED FROM PLAN REFERENCE #1.
 - WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 - EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND PER RIDEM REGULATIONS.
 - THE SITE AND SURROUNDING PROPERTIES ARE ZONED R-30.



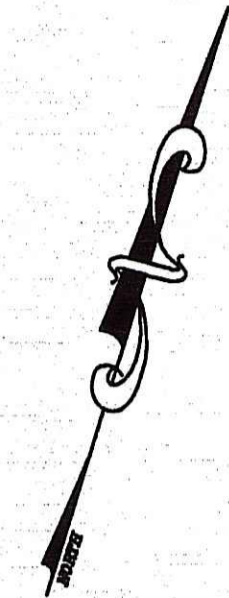
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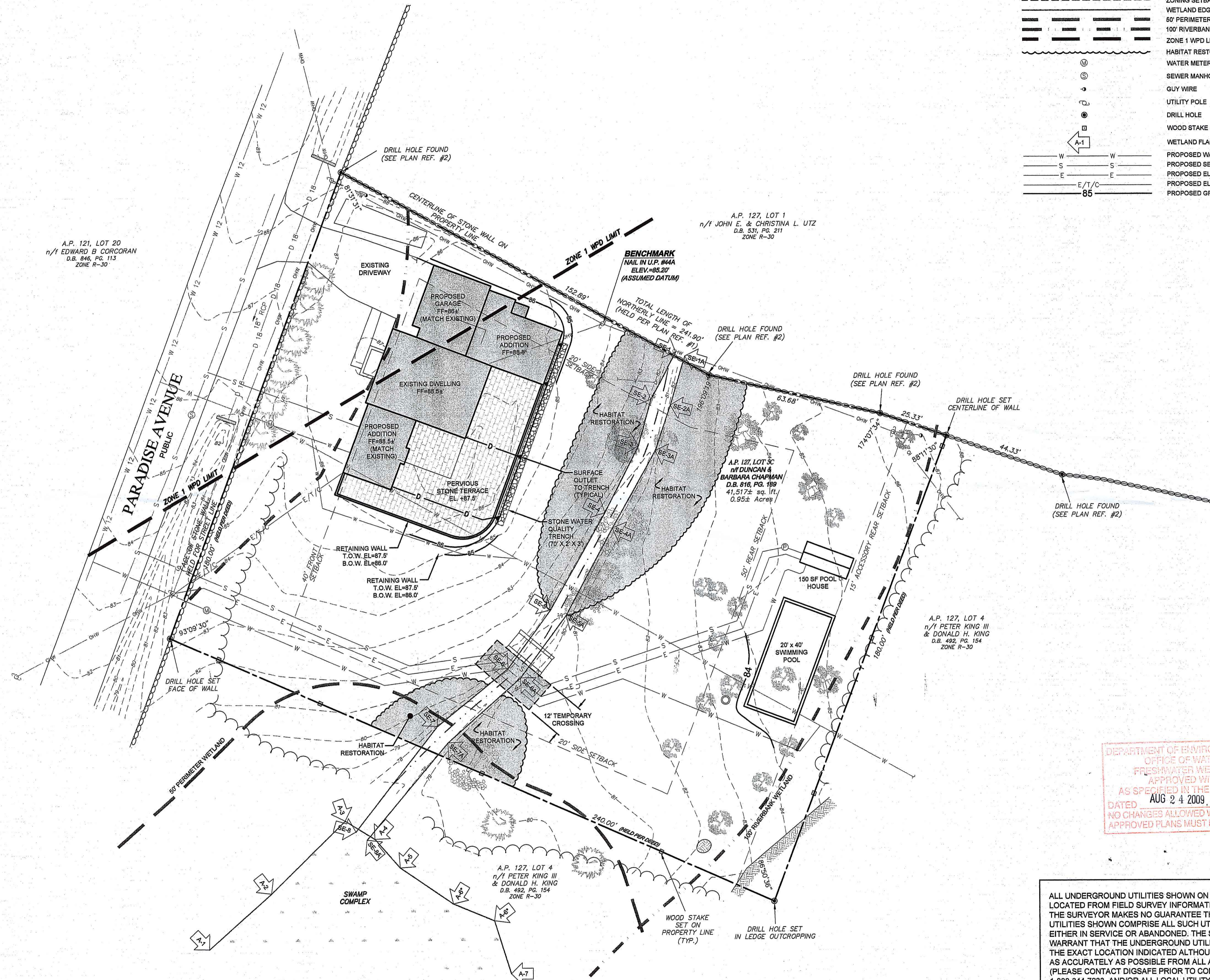


LEGEND:

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXISTING CONTOUR
	STREAM
	STONE WALL
	BRUSH LINE
	18" RCP DRAIN PIPE
	OVERHEAD WIRE
	12" WATER LINE
	WATER SERVICE LINE
	SEWER LINE
	ZONING SETBACK
	WETLAND EDGE
	50' PERIMETER WETLAND
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	WATER METER
	SEWER MANHOLE
	GUY WIRE
	UTILITY POLE
	DRILL HOLE
	WOOD STAKE SET
	WETLAND FLAG
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	PROPOSED ELECTRIC LINE
	PROPOSED ELECTRIC / TELEPHONE / CABLE LINE
	PROPOSED GRADING



A.P. 121, LOT 20
n/1 EDWARD B. CORCORAN
D.B. 846, PG. 113
ZONE R-30



A.P. 127, LOT 1
n/1 JOHN E. & CHRISTINA L. UTZ
D.B. 531, PG. 211
ZONE R-30

A.P. 127, LOT 3C
n/1 DUNCAN & BARBARA CHAPMAN
D.B. 818, PG. 189
41,517± sq. ft.
0.95± Acres

A.P. 127, LOT 4
n/1 PETER KING III
& DONALD H. KING
D.B. 492, PG. 154
ZONE R-30

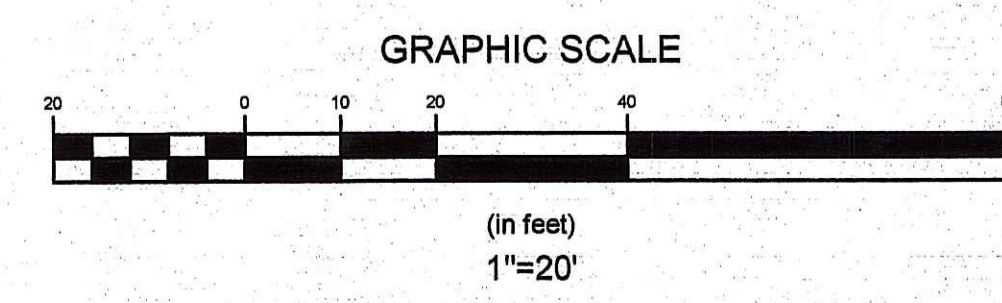
A.P. 127, LOT 4
n/1 PETER KING III
& DONALD H. KING
D.B. 492, PG. 154
ZONE R-30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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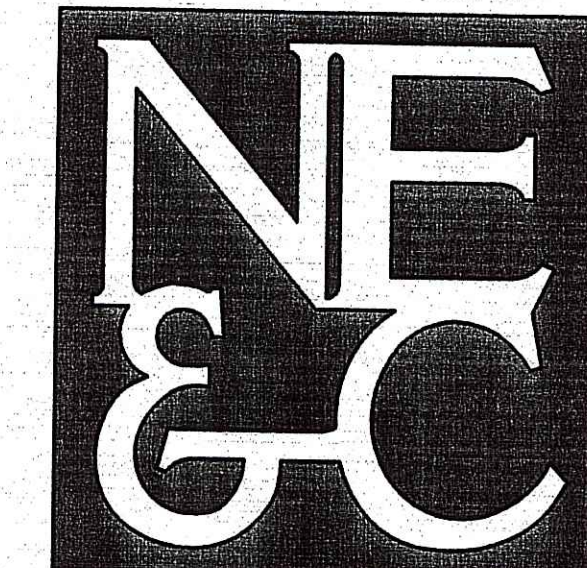
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- SITE NOTES:**
1. BASE OF ELEVATIONS: ASSUMED DATUM.
 2. NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 3. WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 4. EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND PER RIDEM REGULATIONS.

SURFACE ID	AREA (SF)	WATER QUALITY PROVIDED	WQ CONTROL DEVICE	VOLUME PROVIDED (CF)
EXISTING RESIDENCE	1,080	NONE	---	---
DRIVEWAY	920	NONE	---	---
GARAGE AND ADDITIONS	1,784	1" OVER IMPERVIOUS AREA	STONE TRENCH (70'X2'X3')	147



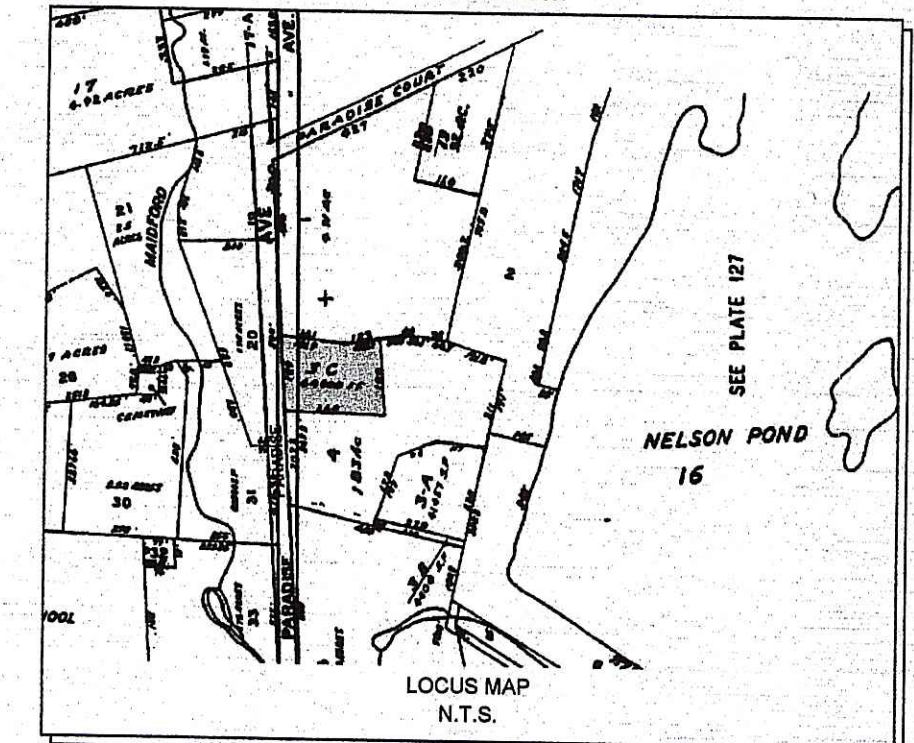
No.	Revision	Date	App.
Designed By: GES	Drawn by: SMH	Checked by:	
Scale: 1"=20'	Date: JULY 09		
Project Title: CHAPMAN RESIDENCE A.P. 127, LOT 3C #586 PARADISE AVENUE MIDDLETOWN, RHODE ISLAND			
Client/Owner: DUNCAN & BARBARA CHAPMAN 106 EAST 85TH STREET APT. 2N NEW YORK, NY 10028			
Issued for: PERMITTING			
Drawing Title: GRADING & DRAINAGE			
Drawing Number: G-1		Sheet 3 of 5	
Project Number: 06244.0		Survey Index:	
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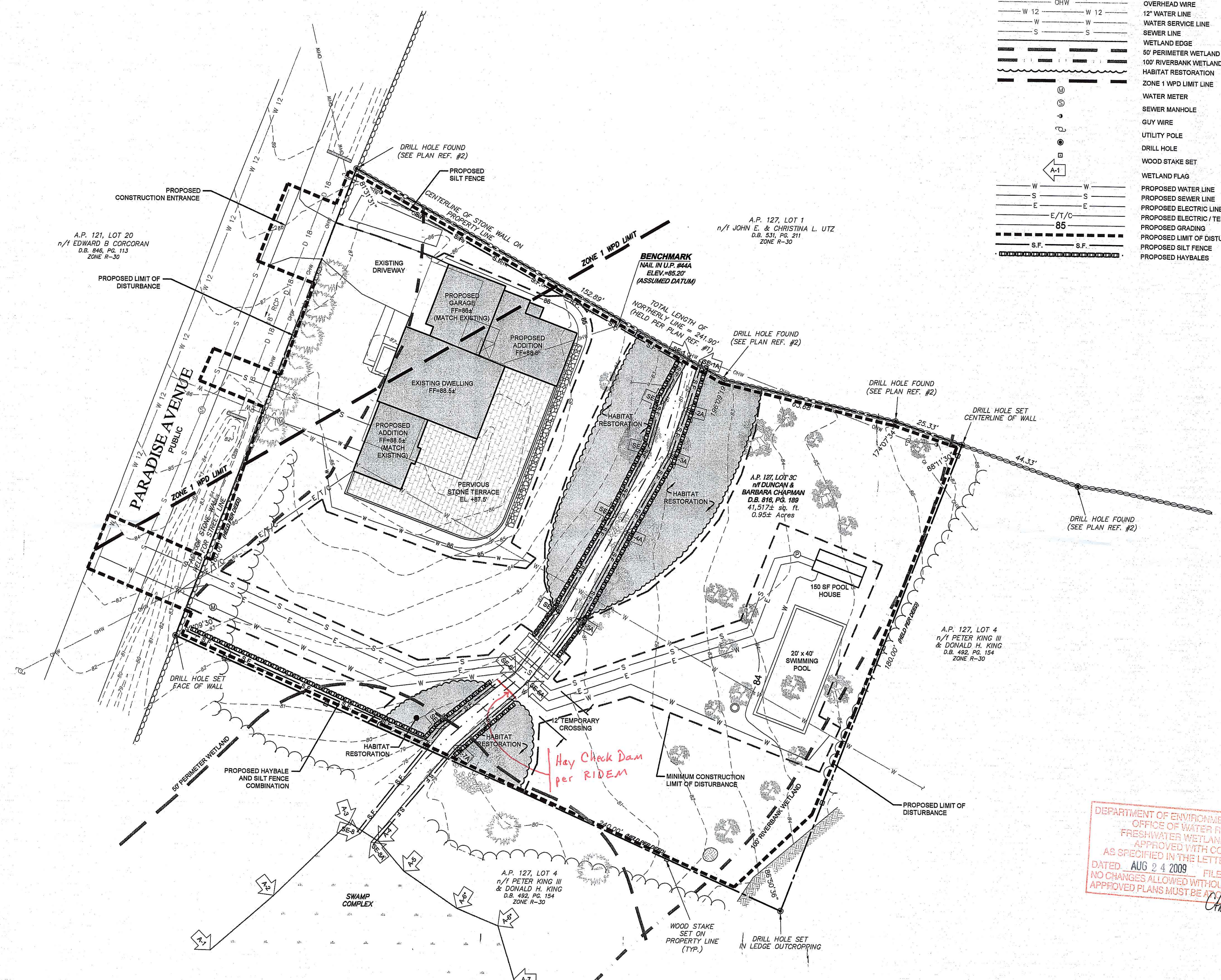
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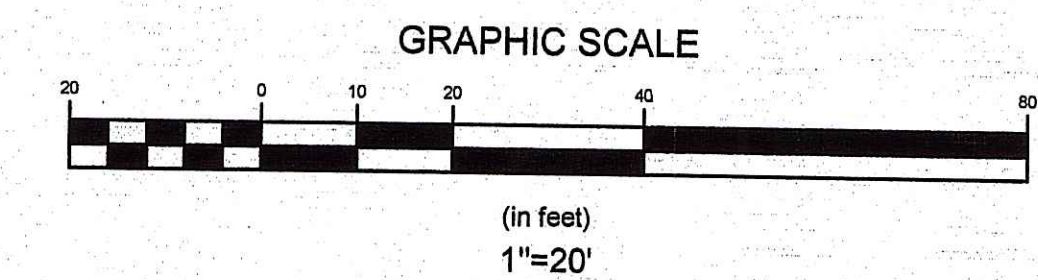
	PROPERTY LINE
	ABUTTING PROPERTY LINE
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	STREAM
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	PROPOSED ELECTRIC LINE
	PROPOSED ELECTRIC / TELEPHONE / CABLE LINE
	PROPOSED GRADING
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED SILT FENCE
	PROPOSED HAYBALES



- SITE NOTES:**
1. BASE OF ELEVATIONS: ASSUMED DATUM
 2. NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 3. WATER LINE TO A.P. 127, LOT 4 SCALED FROM PLAN REFERENCE #1.
 4. EXISTING WATER LINE LOCATION IN ROAD WAS PROVIDED BY NEWPORT PUBLIC WORKS ON FEBRUARY 21, 2006.
 5. WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 6. EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND PER RIDEM REGULATIONS.

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No.	Revision	Date	App.
Designed By:	Drawn by: SMH	Checked by:	
Scale:	1"=20'	Date:	JULY 09
Project Title: CHAPMAN RESIDENCE A.P. 127, LOT 3C #566 PARADISE AVENUE MIDDLETOWN, RHODE ISLAND			
Client/Owner: DUNCAN & BARBARA CHAPMAN 106 EAST 85TH STREET APT. 2N NEW YORK, NY 10028			
Issued for: PERMITTING			
Drawing Title: SOIL EROSION & SEDIMENT CONTROL PLAN			
Drawing Number: SESC-1		Sheet 4 of 5	
Project Number: 06244.0		Survey Index:	
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AUG 18 2009

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING THE START OF EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE TOWN OF MIDDLETOWN. NO CONSTRUCTION IS TO COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF MIDDLETOWN AND THE RI DEPARTMENT OF TRANSPORTATION. STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2004 AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
- ALL ELEVATIONS ARE ON ASSUMED DATUM.
- DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO BE MADE TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR IS REQUIRED TO VERIFY THE LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER UTILITIES NOT ON RECORD OR SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND REINSTATEMENT OF UTILITY SERVICES DAMAGED DURING CONSTRUCTION.
- RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE PRIOR TO CONSTRUCTION AT 1-888-DIG-SAFE (1-888-344-7233) AND/OR ALL LOCAL UTILITY COMPANIES.

SOIL EROSION & SEDIMENT CONTROL NOTES

- CONSTRUCTION SEQUENCE:
 - DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE LOCATED AS SHOWN ON PLANS. CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THIS ENTRANCE.
 - INSTALL SILT FENCES, SILT SACKS, CHECK DAMS AND/OR HAY BALES AS INDICATED ON THE DRAWINGS TO CONTROL EROSION AND PREVENT SEDIMENT CONTAMINATION OF STREAMS AND WETLANDS PRIOR TO ANY EARTH MOVING ACTIVITIES.
 - REMOVE TREES ONLY WHERE NECESSARY. ALL STUMPS TO BE GROUND OR DISPOSED OF OFF SITE.
 - START BUILDING AND ROAD CONSTRUCTION.
 - CONSTRUCT THE REQUIRED DRAINAGE CONTROL MEASURES AND UTILITIES.
 - CONSTRUCT LANDSCAPED AREAS, MAINTAIN SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

2. NOTES:

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
- ALL FILL SHALL BE COMPACTED TO 95% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
- ALL FILL SHALL BE PLACED AND COMPACTED TO 95% MAX. DENSITY IN LAYERS NOT TO EXCEED 12" IN THICKNESS.
- FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
- REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED AND VEGETATED AREAS HAVE RECEIVED TWO CUTTINGS.

3. VEGETATIVE PRACTICE:

- PERMANENT MEASURES:**
- SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
 - LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN RIDOT L01 & L02.
 - A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED. TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS)
 - LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
LIMESTONE: 3 TONS/ACRE
FERTILIZER: (10-10-10): 800 LBS/ACRE E.
- SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
WINTER RYE: 112 LBS/ACRE F.
HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

4. MAINTENANCE

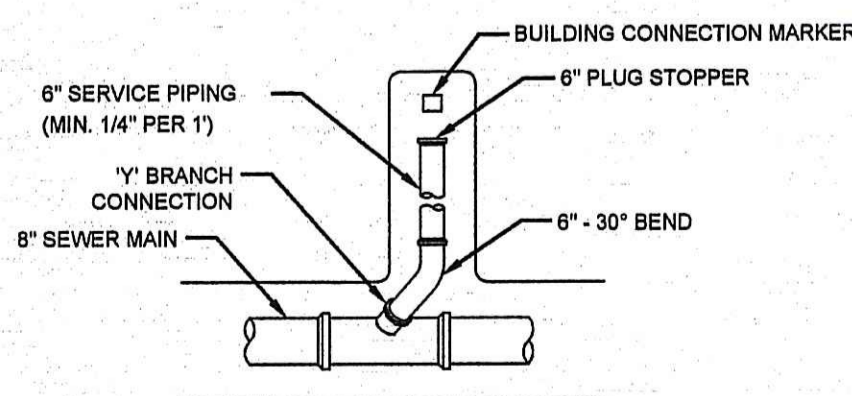
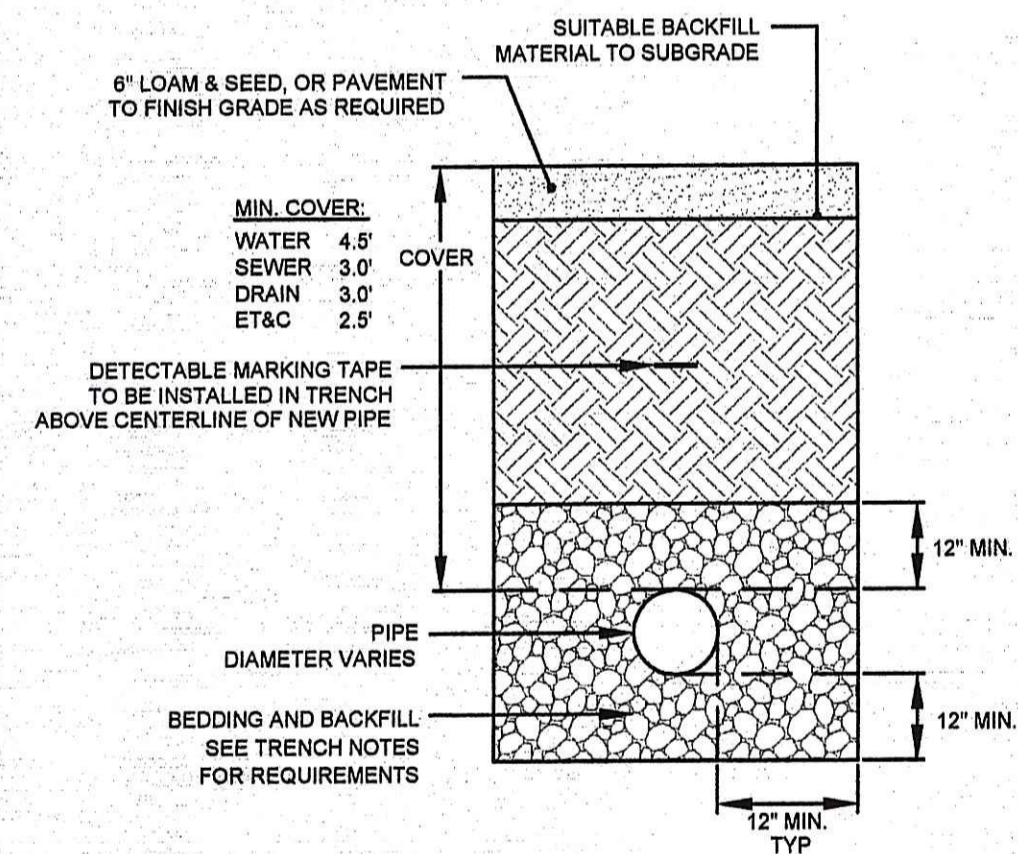
- DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, THE EROSION CONTROL MEASURES SHALL BE INSPECTED.
- SILT FENCES AND HAY BALES SHALL BE INSPECTED AS INDICATED IN THE DETAILS. AT A MINIMUM THE SILT FENCING AND HAY BALES SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND/OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.
 - EXCELSIOR MATTING SHALL BE INSPECTED ON A WEEKLY BASIS.
 - STONE APRONS SHALL BE INSPECTED MONTHLY FOR EXCESSIVE ACCUMULATION OF SEDIMENT. IT MAY BE NECESSARY TO REMOVE STONES, EXCAVATE SEDIMENT, AND REPLACE STONES.
 - THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO PAVING. DURING CONSTRUCTION THE ENTRANCE SHALL BE INSPECTED WEEKLY, AND REESTABLISHED AS NECESSARY.
 - SEEDING AREAS SHALL BE FERTILIZED AND RESEEDING AS NECESSARY TO INSURE ESTABLISHMENT OF A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE TOWN ENGINEER.

TRENCH NOTES:

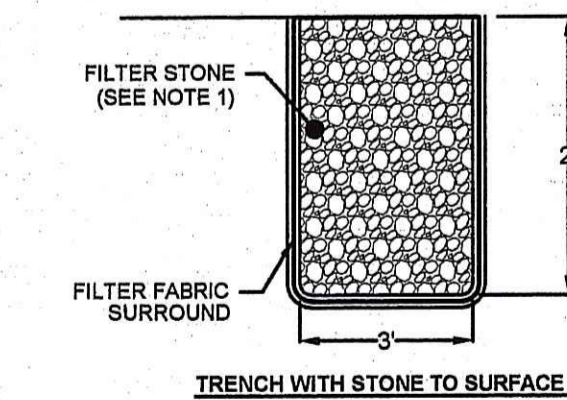
- UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
- TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
- SEWER AND DRAIN PIPES SHALL BE LAYED BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
- ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED. 8" DIA MAINS - 6" DIA SERVICES
- ALL DRAIN PIPES UNDER VEHICLE TRAVEL SURFACES SHALL BE RCP. CLASS III PIPING SHALL BE USED WITH PIPE COVER 3 FEET OR GREATER, ELSE CLASS IV SHALL BE USED. ADS N-12 (SMOOTH BORE) SHALL BE USED IN ALL OTHER INSTANCES.
- ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F879.
- BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (ASTM D1557). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
- SEWER AND DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.O.I.09 TYPE II MATERIAL.
- WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M8 REQUIREMENTS.
- UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN OF MIDDLETOWN PUBLIC WORKS RULES AND REGULATIONS.

UTILITY TRENCH DETAIL AND NOTES

SCALE: NOT TO SCALE

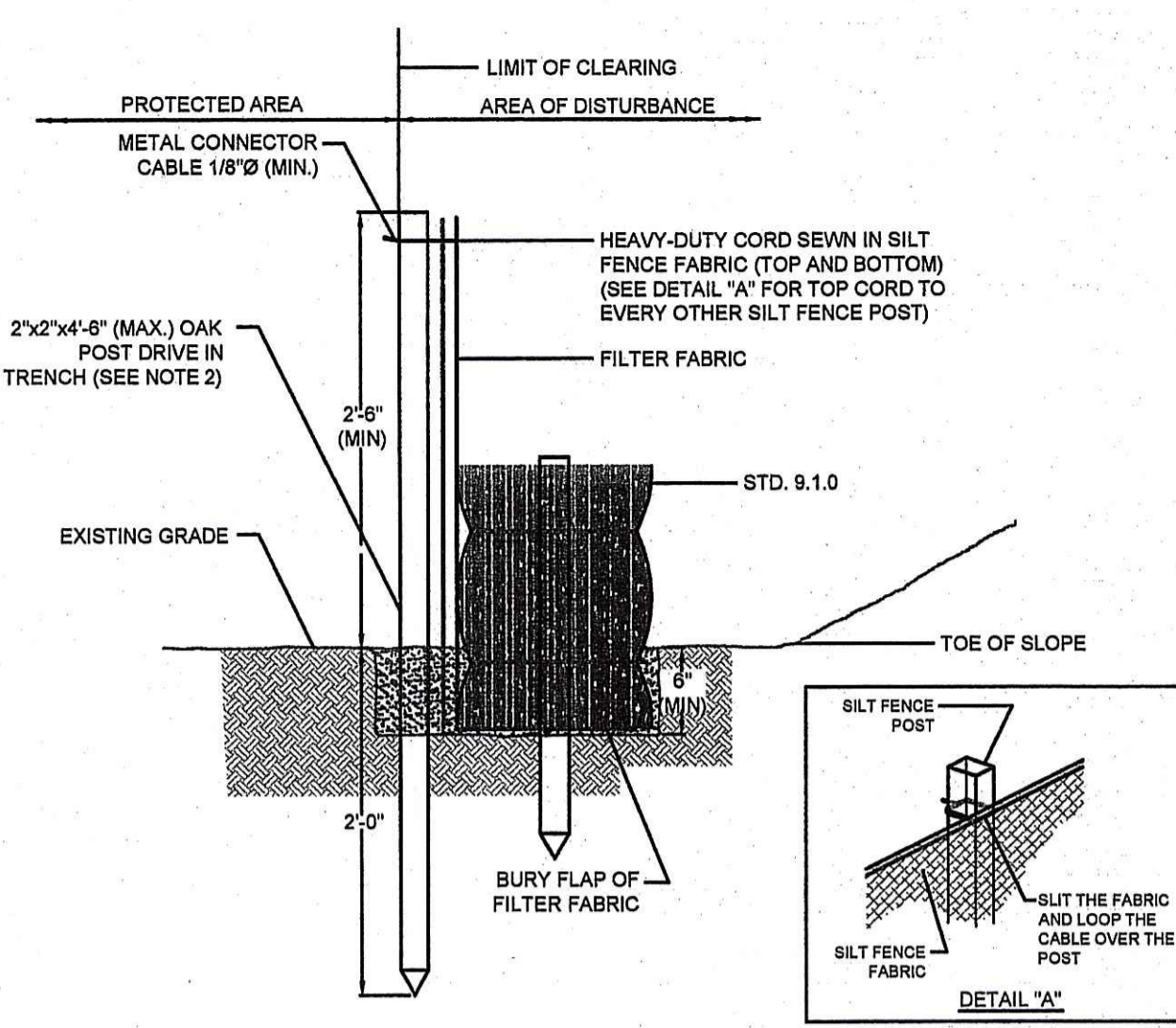


SEWER BUILDING CONNECTION DETAIL
SCALE: NOT TO SCALE



- NOTES:**
- FILTER STONE TO BE NATIONAL STONE ASSOCIATION MODIFIED NSA NO. FS-2 TO RIDOT M10.0501.
 - A MINIMUM OF 3 INSPECTION PORTS SHALL BE INSTALLED AND BROUGHT TO GRADE.
 - TRENCH TO BE PROTECTED FROM SILTATION DURING CONSTRUCTION AND UNTIL VEGETATION IS FULLY ESTABLISHED. (ENGINEER TO DO FINAL INSPECTION)

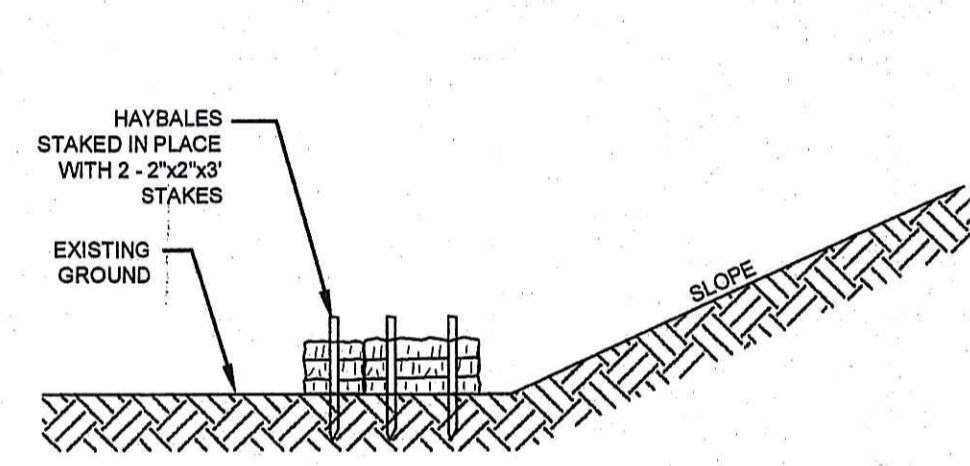
STONE WATER QUALITY TRENCH DETAIL
SCALE: NOT TO SCALE



EROSION CONTROL BARRIER

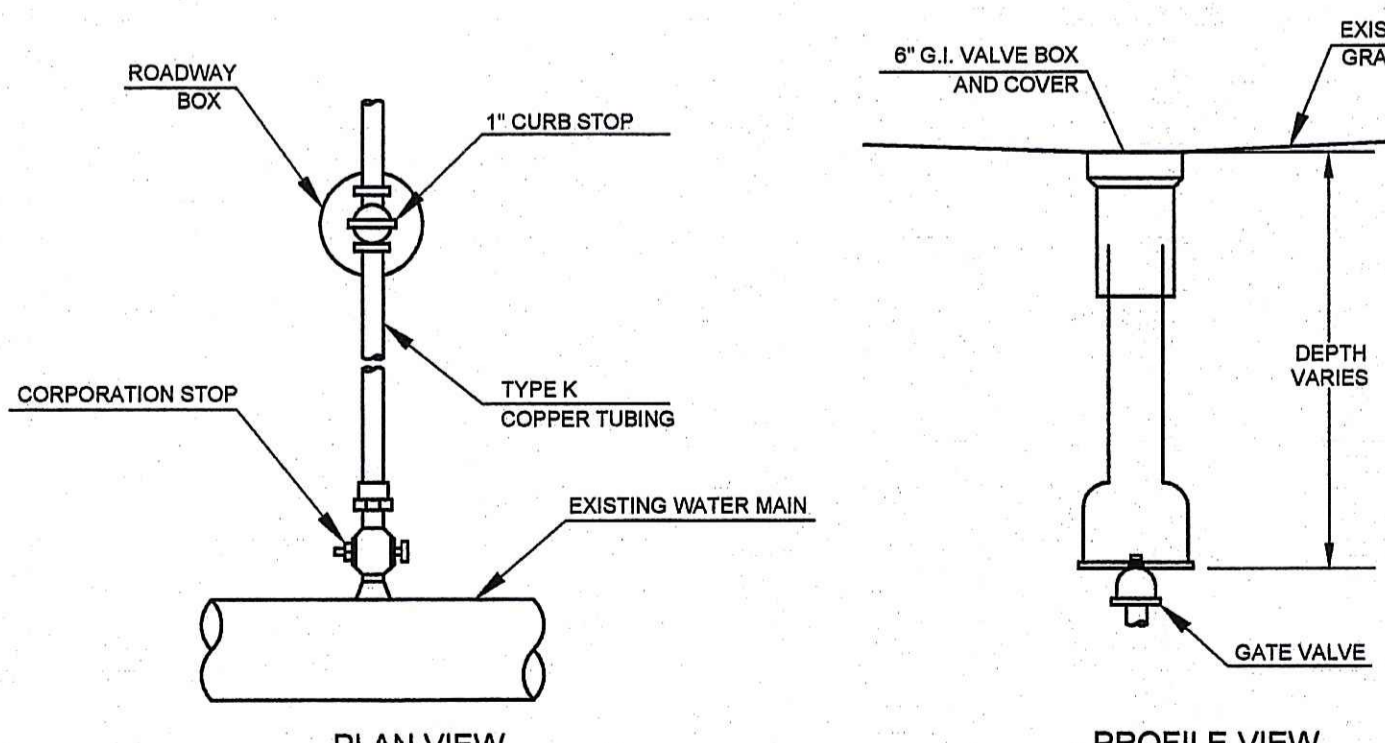
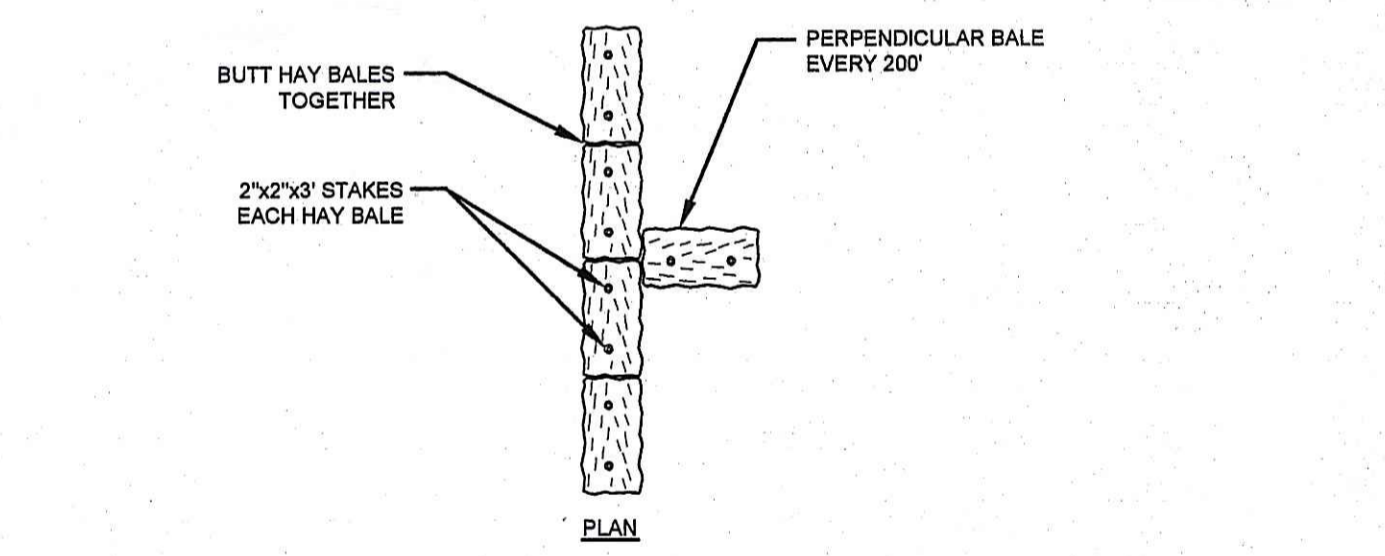
SCALE: NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - STD. 9.1.0 IS INSTALLED "RIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4" (MAX.) POSTS ARE PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

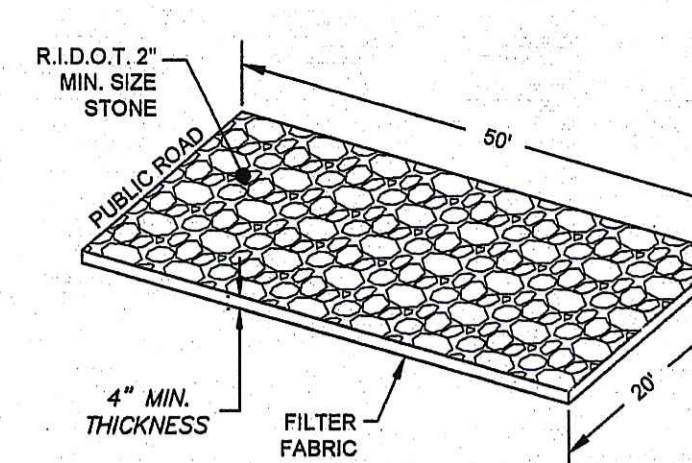


HAYBALE SEDIMENT BARRIER

SCALE: NOT TO SCALE

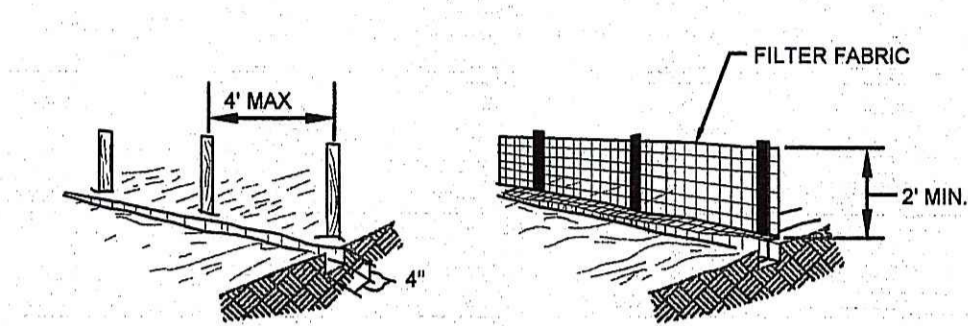


WATER GATE VALVE / SERVICE CURB STOP
SCALE: NOT TO SCALE

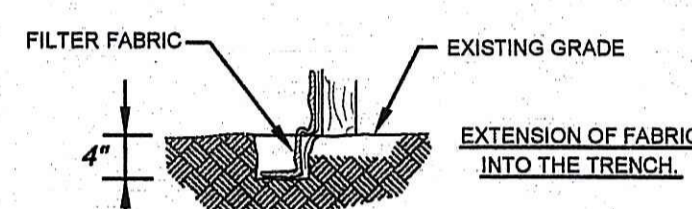


CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE

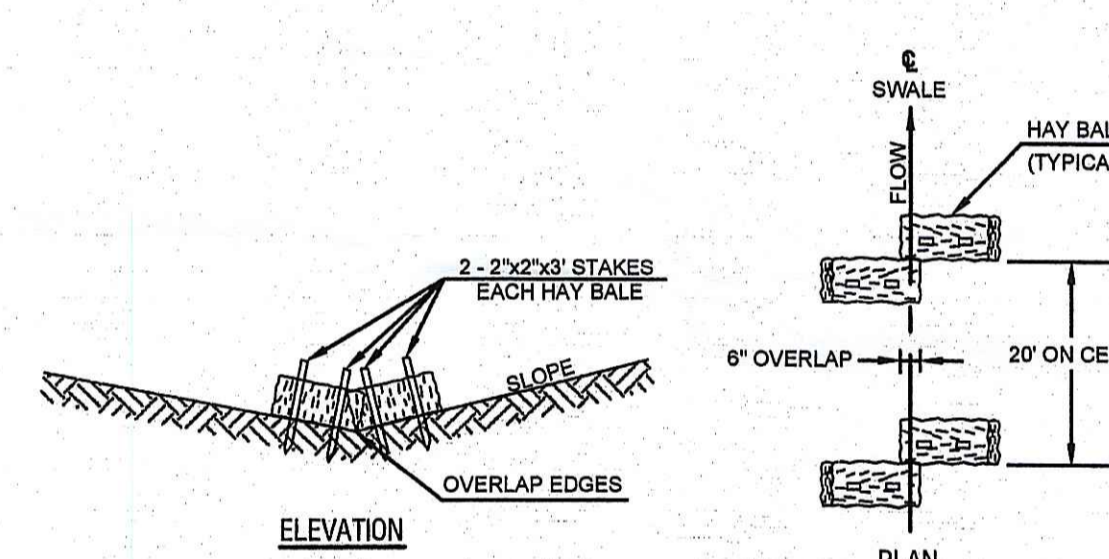


- NOTES:**
- SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
 - STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
 - BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



SILT FENCE

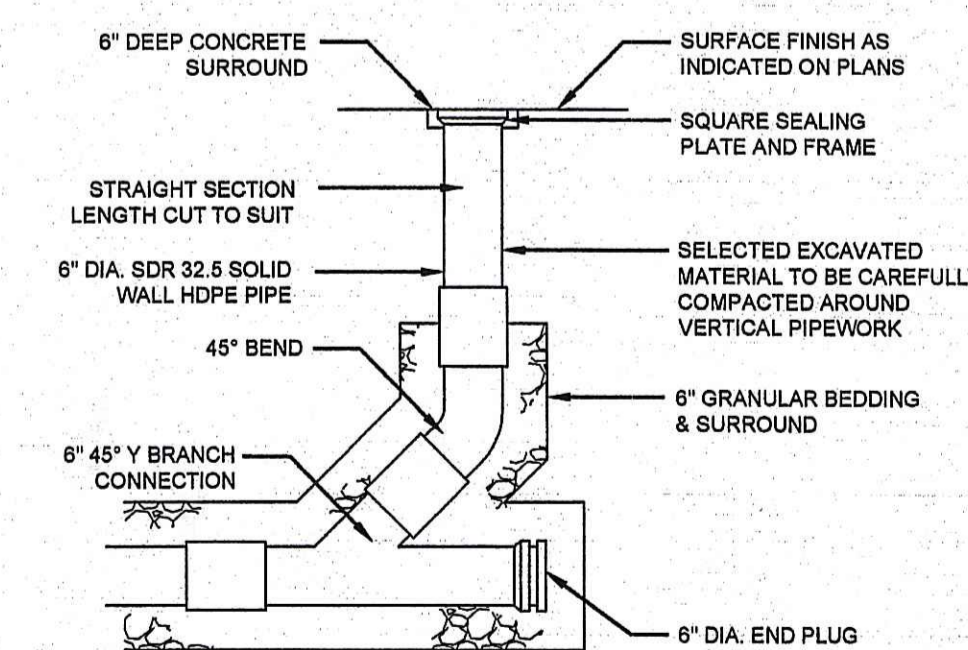
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HAYBALE CHECK DAM

SCALE: N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 24 2009 FILE # 08-0197
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT THIS LOCATION SITE



CLEANOUT DETAIL

SCALE: NOT TO SCALE

NORTHEAST ENGINEERS & CONSULTANTS, INC.



A KNOWLEDGE CORPORATION

55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM

- SITE/CIVIL
- LAND PLANNING
- WATERFRONT
- SURVEYING
- GEOTECHNICAL
- ENVIRONMENTAL
- TRANSPORTATION
- STRUCTURAL
- MATERIALS TESTING

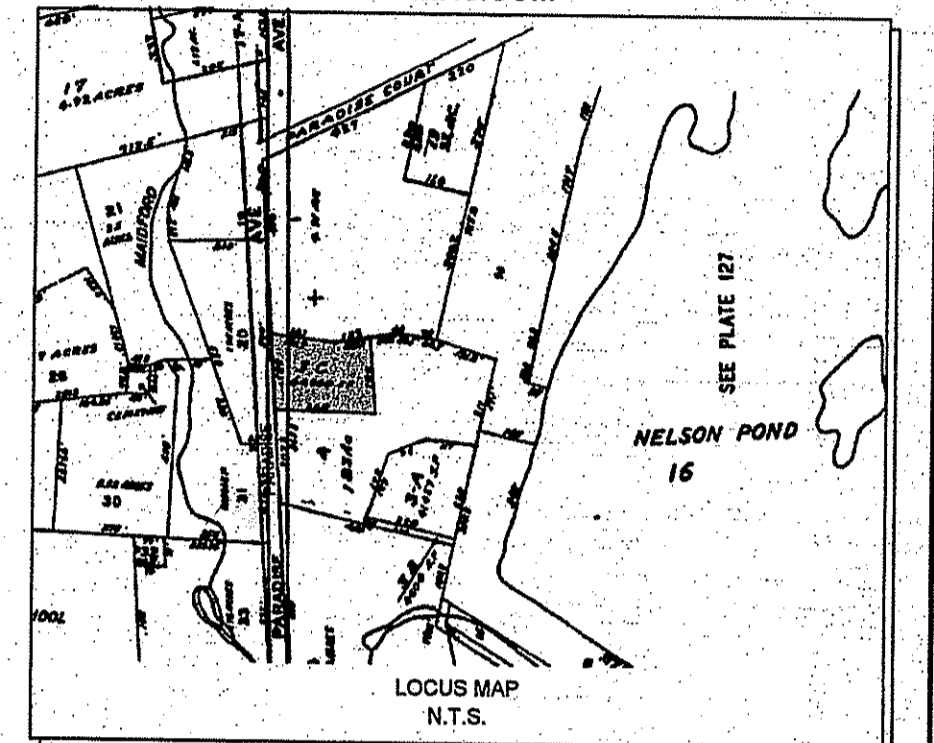
No.	Revision	Date	App.
Designed By: GES	Drawn by: SMH	Checked by:	
Scale: AS SHOWN	Date: JULY 09		
Project Title: CHAPMAN RESIDENCE A.P. 127, LOT 3C #566 PARADISE AVENUE MIDDLETOWN, RHODE ISLAND			
Client/Owner: DUNCAN & BARBARA CHAPMAN 106 EAST 85TH STREET APT. 2N NEW YORK, NY 10028			
Issued for: PERMITTING			
Drawing Title: SITE DETAILS			
Drawing Number: D-1		Sheet 5 of 5	
Project Number: 06244.0		Survey Index:	
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THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

DATE: / /

BY: _____
REGISTERED PROFESSIONAL LAND SURVEYOR

No.	Revision	Date	App.

Designed by: _____ Drawn by: SMH Checked by: _____
Scale: 1"=20' Date: MAY 08

Project Title:
CHAPMAN RESIDENCE
A.P. 127, LOT 3C
#566 PARADISE AVENUE
MIDDLETOWN, RHODE ISLAND

Client/Owner:
DUNCAN & BARBARA CHAPMAN
106 EAST 85TH STREET APT. 2N
NEW YORK, NY 10028

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
ISSUED FOR:
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 2 2008 FILE # 08-0147
NO CHANGES ALLOWED WITHOUT PERMITTING
APPROVED PLANS MUST BE APPROVED AT CONSTRUCTION SITE

PERMITTING

EXISTING SITE PLAN
MAY 12 2008

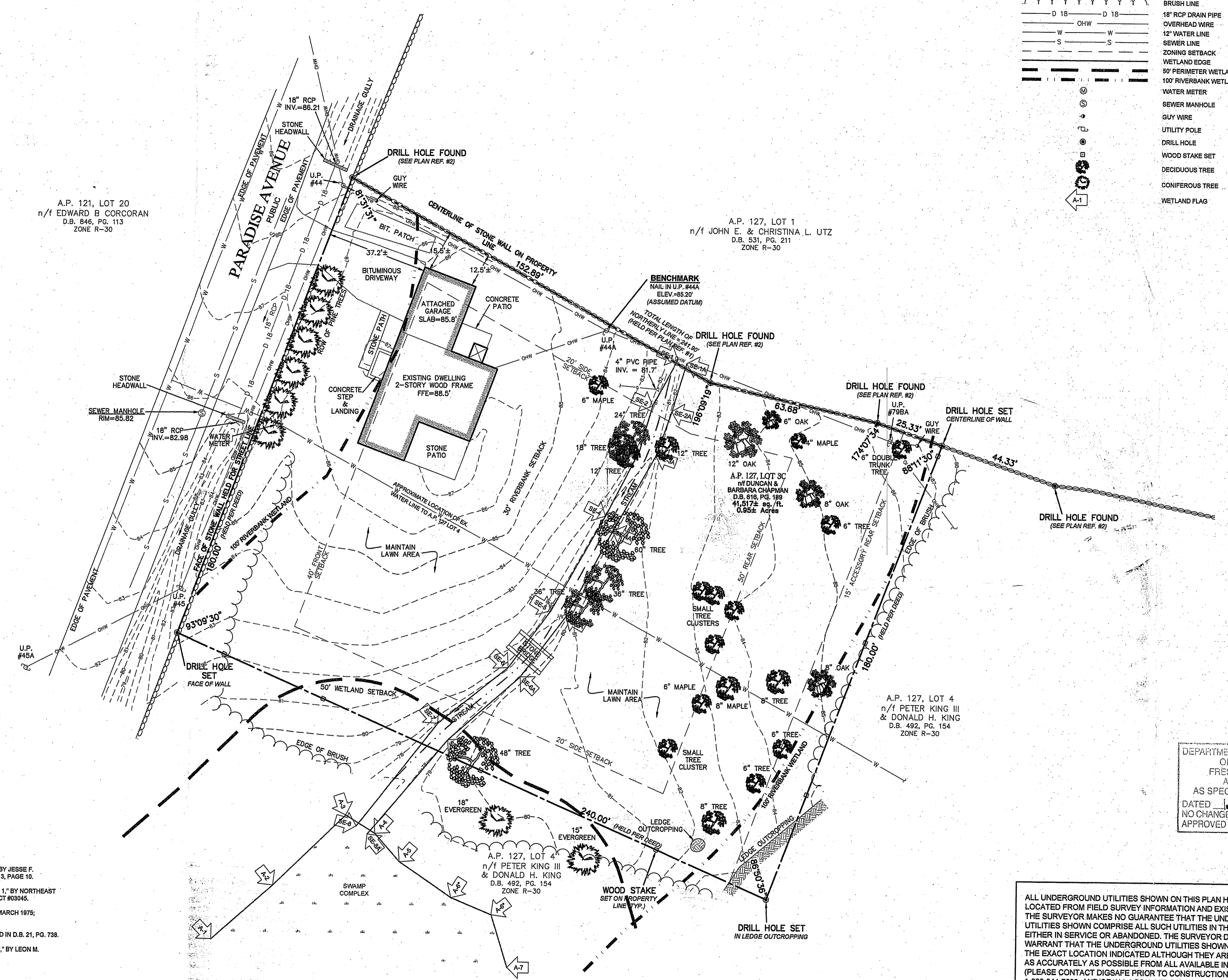
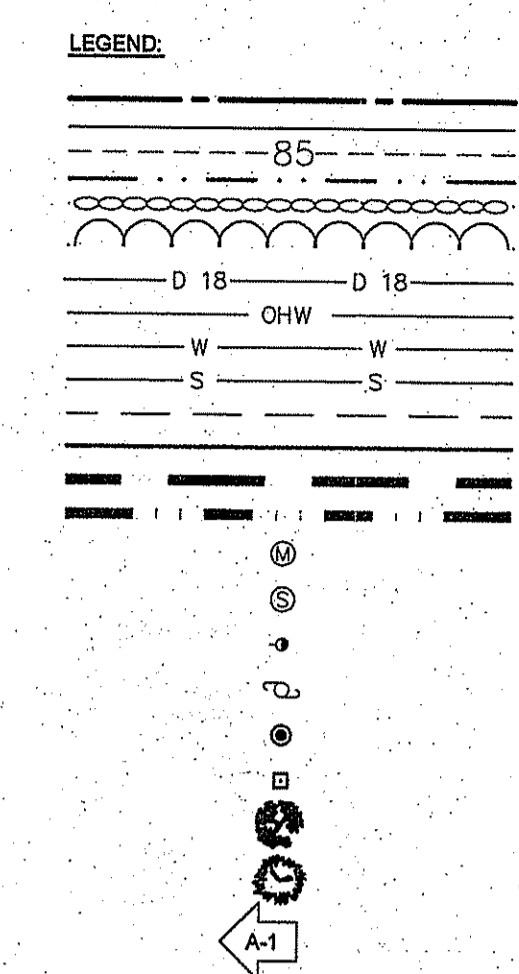
Drawing Number:
L-1

Sheet **1** of **5**

Project Number:
06244.0

Survey Index:

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A.P. 121, LOT 20
n/f EDWARD B. CORCORAN
D.B. 846, PG. 113
ZONE R-30

A.P. 127, LOT 1
n/f JOHN E. & CHRISTINA L. UTZ
D.B. 531, PG. 211
ZONE R-30

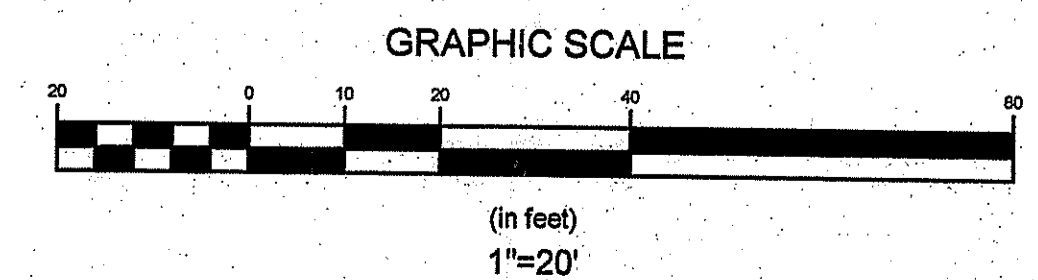
A.P. 127, LOT 4
n/f PETER KING III & DONALD H. KING
D.B. 492, PG. 154
ZONE R-30

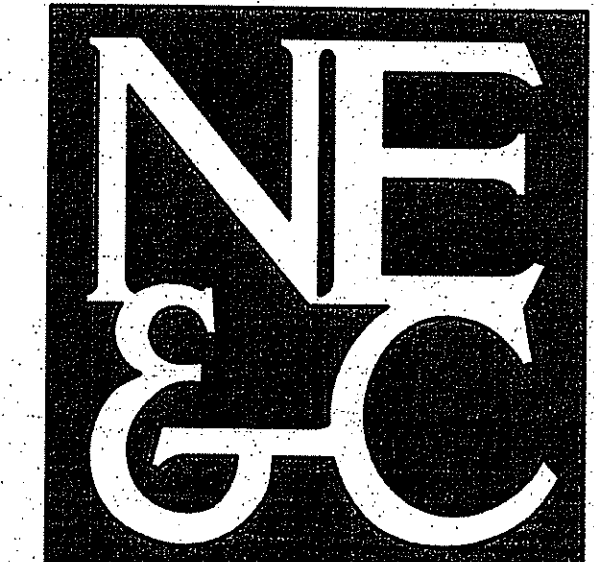
A.P. 127, LOT 4
n/f PETER KING III & DONALD H. KING
D.B. 492, PG. 154
ZONE R-30

- PLAN REFERENCES:**
- "PLAN OF LAND OF PETER & LYND KING, PARADISE AVE, MIDDLETOWN, R.I.," BY JESSE F. METCALF, JR.; DATED NOV. 14, 1977; SCALE: 1"=40'; RECORDED IN PLAN BOOK 13, PAGE 10.
 - "PROPERTY LINE SURVEY & TOPOGRAPHIC PLAN OF LAND FOR A.P. 127, LOT 1," BY NORTHEAST ENGINEERS & CONSULTANTS, INC.; DATED FEB. 21, 2005; SCALE: 1"=30'; PROJECT #03046.
 - "PORTION PETER & LYND M. KING LAND, PARADISE AVE.," BY LYNCH; DATED MARCH 1975; REVISED JULY 1976; RECORDED IN PLAN BOOK 12, PAGE 22-23.
 - "GRAY CRAIG," A PLAN PREPARED BY COTTON; DATED JUNE 1913; RECORDED IN D.B. 21, PG. 738.
 - "SITE PLAN OF PROPOSED SUBDIVISION FOR DOUGLAS & KATHLEEN WILSON," BY LEON M. SHAW; RECORDED PLAN #95-2.

- NOTES:**
- BASE OF ELEVATIONS: ASSUMED DATUM
 - NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 - WATER LINE TO A.P. 127, LOT 4 SCALED FROM PLAN REFERENCE #1.
 - WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND PLAS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 - EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND.
 - THE SITE AND SURROUNDING PROPERTIES ARE ZONED R-30.

ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES)

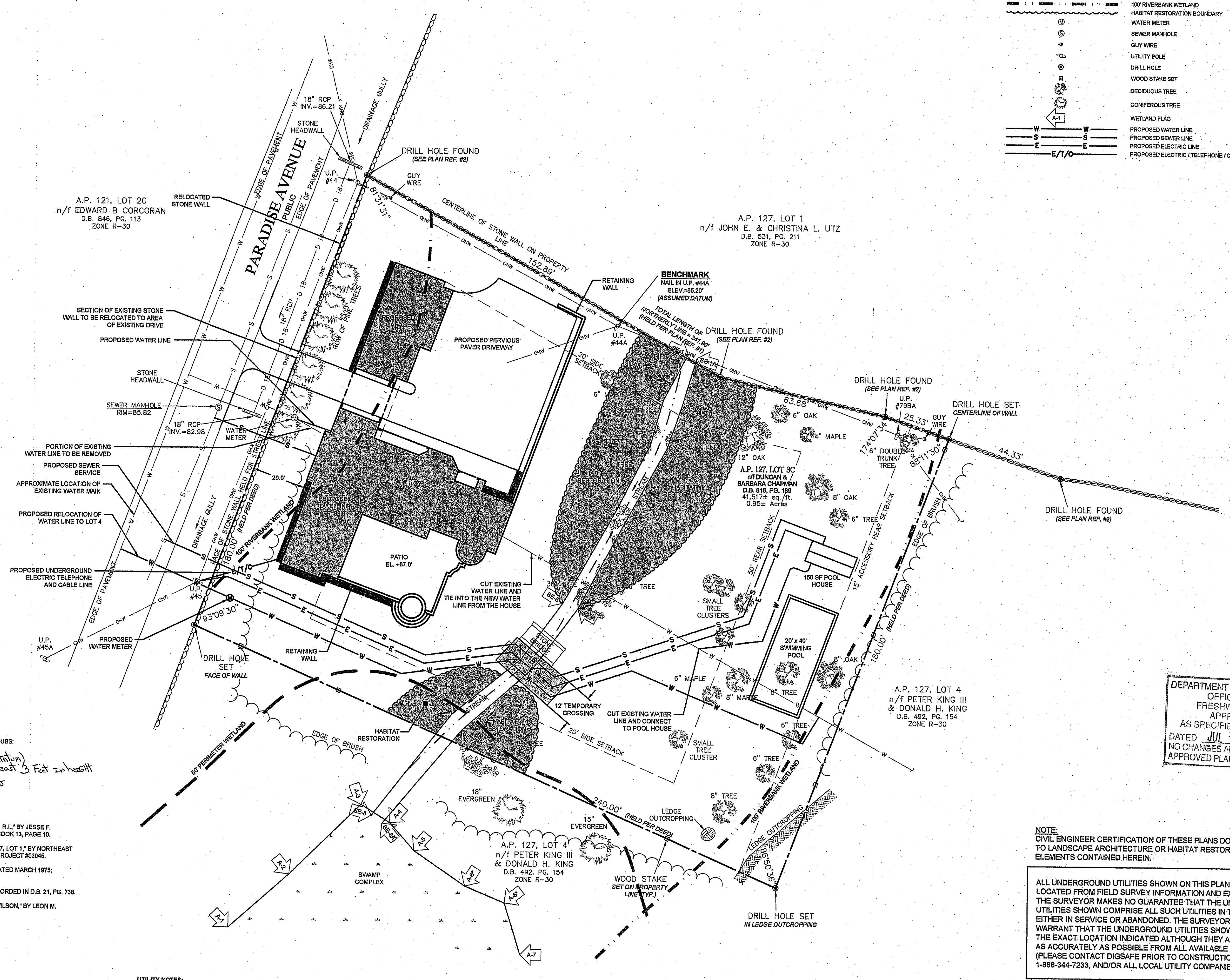
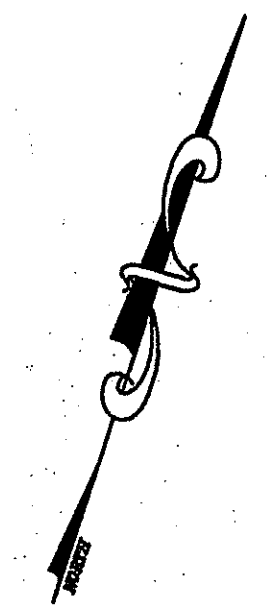
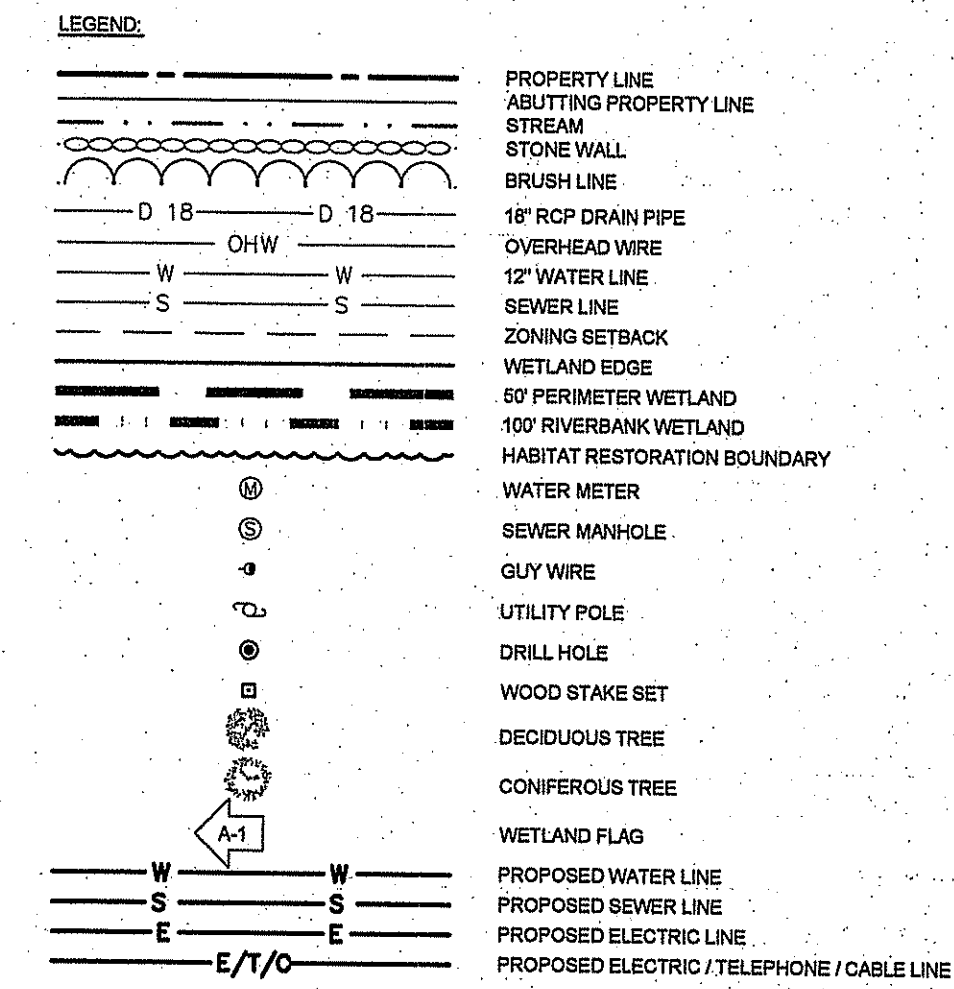
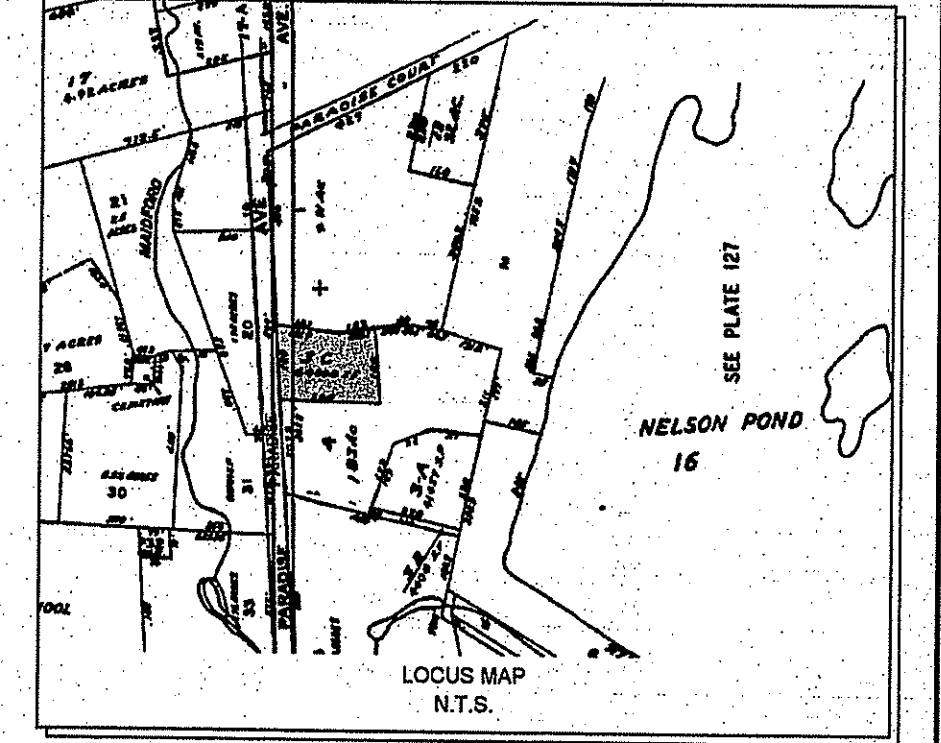




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 LAND PLANNING
 WATERFRONT
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 GEOTECHNICAL
 ENVIRONMENTAL
 TRANSPORTATION
 STRUCTURAL
 MATERIALS TESTING



ZONING DATA:
 ZONING DISTRICT: R30 - RESIDENTIAL

REQUIRED:
 FRONT SETBACK: 40 ft.
 SIDE SETBACK: 20 ft.
 REAR SETBACK: 30 ft.
 MAXIMUM COVERAGE: 20%
 MAXIMUM HEIGHT: 35 ft.

PROPOSED:
 FRONT SETBACK: 20 ft.
 SIDE SETBACK: 20 ft. / 37.4 ft.
 REAR SETBACK: 142.8 ft.
 BUILDING COVERAGE: 8%

PLAN NOTES:

- HABITAT RESTORATION TO BE REPLANTED WITH THE FOLLOWING SHRUBS:
 ROSEBAY RHODODENDRON (RHODODENDRON MAXIMUM)
 SILKY DOGWOOD (CORNUS AMOMUM)
 INKBERRY (ILEX GLABRA)
Shubs must be at least 3 feet in height
25 of each species

- PER NATURAL RESOURCE SERVICES, INC., ON APRIL 7, 2008.

PLAN REFERENCES:

- "PLAN OF LAND OF PETER & LYND KING, PARADISE AVE, MIDDLETOWN, R.I.," BY JESSE F. METCALF, JR., DATED NOV. 14, 1977; SCALE: 1"=40'; RECORDED IN PLAN BOOK 13, PAGE 10.
- "PROPERTY LINE SURVEY & TOPOGRAPHIC PLAN OF LAND FOR A.P. 127, LOT 1," BY NORTHEAST ENGINEERS & CONSULTANTS, INC., DATED FEB. 21, 2003; PROJECT #03045.
- "PORTION PETER & LYND M. KING LAND, PARADISE AVE," BY LYNCH; DATED MARCH 1975; REVISED JULY 1975; RECORDED IN PLAN BOOK 12, PAGE 22-23.
- "GRAY CRAIG," A PLAN PREPARED BY COTTON; DATED JUNE 1913; RECORDED IN D.B. 21, PG. 738.
- "SITE PLAN OF PROPOSED SUBDIVISION FOR DOUGLAS & KATHLEEN WILSON," BY LEON M. SHAW, RECORDED PLAN #95-2.

SITE NOTES:

- BASE OF ELEVATIONS: ASSUMED DATUM
- NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
- WATER LINE TO A.P. 127, LOT 4 SCALED FROM PLAN REFERENCE #1.
- EXISTING WATER LINE LOCATION IN ROAD WAS PROVIDED BY NEWPORT PUBLIC WORKS ON FEBRUARY 21, 2008.
- WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
- EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND.
- THE SITE AND SURROUNDING PROPERTIES ARE ZONED R-30.

UTILITY NOTES:

- UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE TO BE DESIGNED BY THE APPROPRIATE UTILITY COMPANIES. LOCATIONS ARE SUBJECT TO CHANGE UPON DESIGN AND APPROVAL FROM THOSE COMPANIES.
- ALL UTILITIES SHALL BE INSTALLED TO THE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANIES AND THE TOWN OF MIDDLETOWN.

No.	Revision	Date	App.

Designed By: _____ Drawn by: SMH Checked by: _____
 Scale: 1"=20' Date: MAY 08

CHAPMAN RESIDENCE
 A.P. 127, LOT 3C
 #566 PARADISE AVENUE
 MIDDLETOWN, RHODE ISLAND

DUNCAN & BARBARA CHAPMAN
 106 EAST 85TH STREET APT. 2N
 NEW YORK, NY 10028

PERMITTING

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL - 2 2008 FILE # 08-017
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Drawing Title:

LAYOUT & UTILITIES

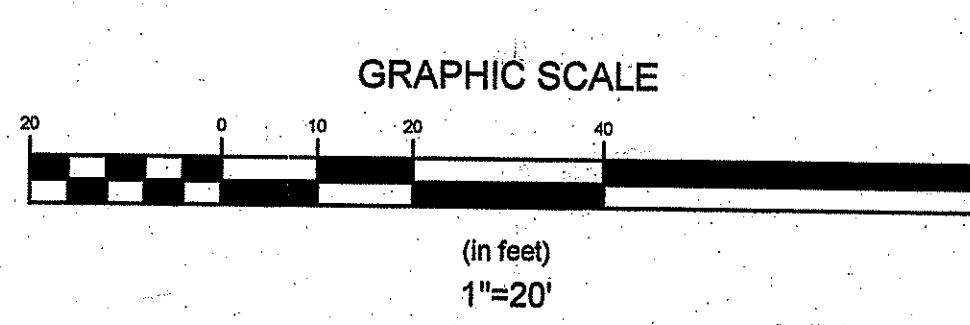
MAY 12 2008

Drawing Number: **C-1**
 Sheet **2** of **5**
 Project Number: **06244.0**
 Survey Index: _____

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NOTE:
 CIVIL ENGINEER CERTIFICATION OF THESE PLANS DOES NOT EXTEND TO LANDSCAPE ARCHITECTURE OR HABITAT RESTORATION ELEMENTS CONTAINED HEREIN.

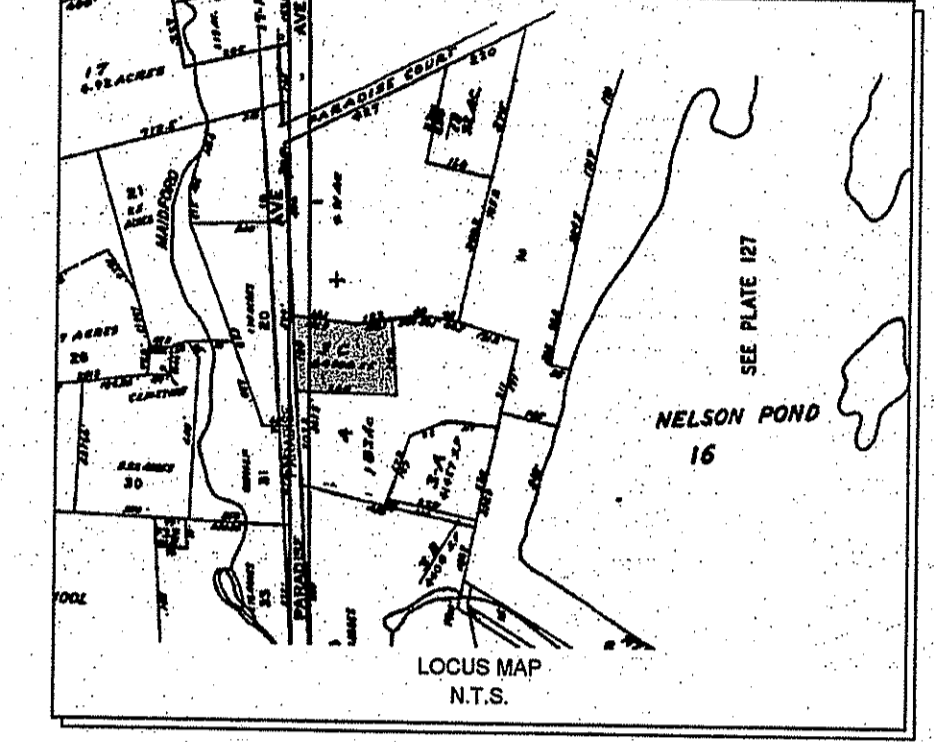
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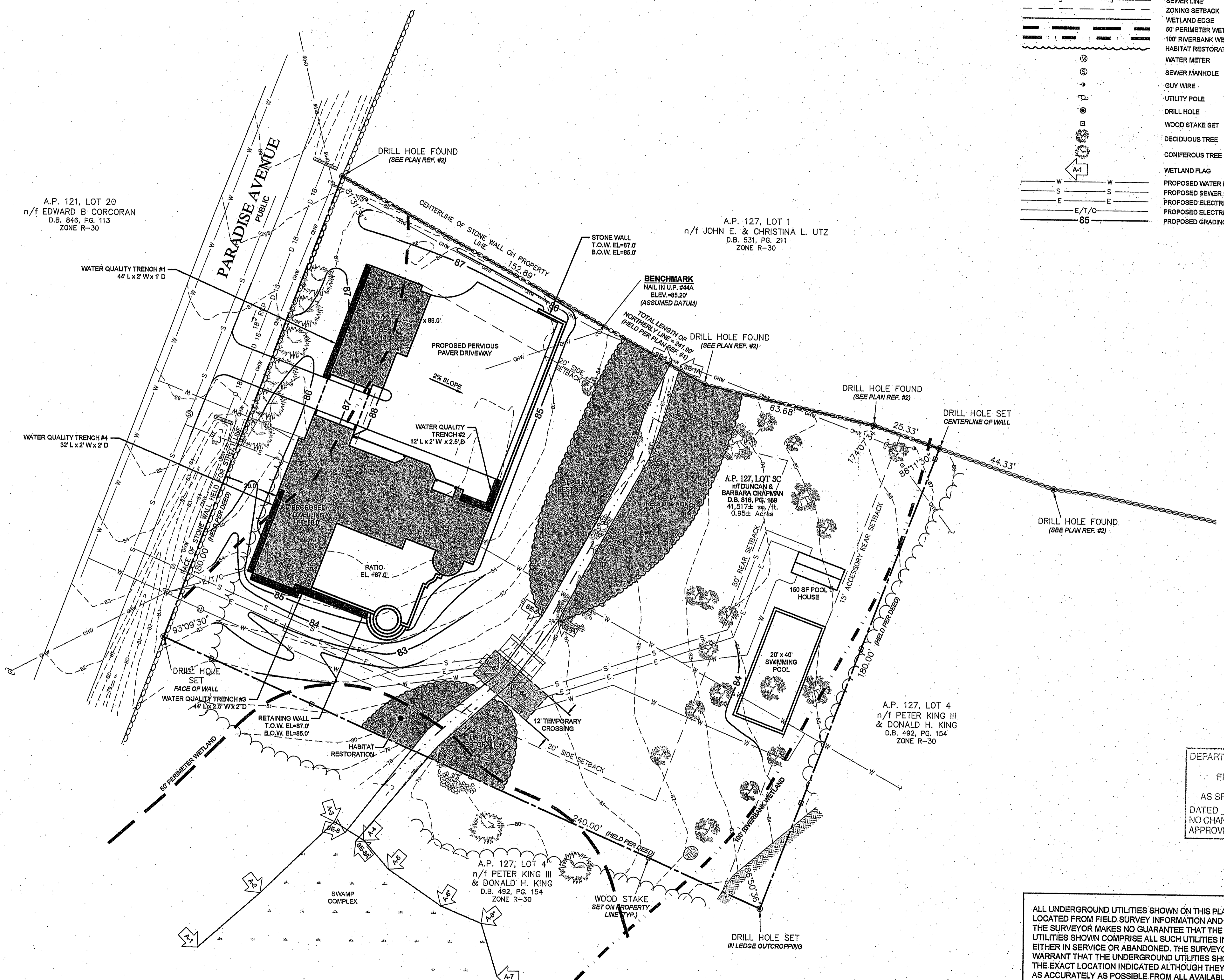
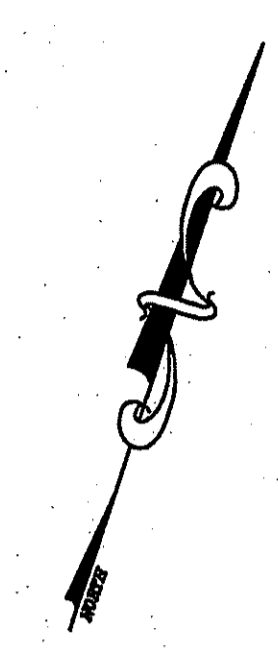
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 MATERIALS TESTING

LEGEND:

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXISTING CONTOUR
	STREAM
	STONE WALL
	BRUSH LINE
	18" RCP DRAIN PIPE
	OVERHEAD WIRE
	12" WATER LINE
	SEWER LINE
	ZONING SETBACK
	WETLAND EDGE
	50' PERIMETER WETLAND
	100' RIVERBANK WETLAND
	HABITAT RESTORATION BOUNDARY
	WATER METER
	SEWER MANHOLE
	GUY WIRE
	UTILITY POLE
	DRILL HOLE
	WOOD STAKE SET
	DECIDUOUS TREE
	CONIFEROUS TREE
	WETLAND FLAG
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	PROPOSED ELECTRIC LINE
	PROPOSED ELECTRIC/TELEPHONE/CABLE LINE
	PROPOSED GRADING



A.P. 121, LOT 20
 n/f EDWARD B. CORCORAN
 D.B. 846, PG. 113
 ZONE R-30

A.P. 127, LOT 1
 n/f JOHN E. & CHRISTINA L. UTZ
 D.B. 531, PG. 211
 ZONE R-30

A.P. 127, LOT 3C
 n/f DUNCAN & BARBARA CHAPMAN
 D.B. 816, PG. 189
 41,517± sq. ft.
 0.95± Acres

A.P. 127, LOT 4
 n/f PETER KING III & DONALD H. KING
 D.B. 492, PG. 154
 ZONE R-30

A.P. 127, LOT 4
 n/f PETER KING III & DONALD H. KING
 D.B. 492, PG. 154
 ZONE R-30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL - 2 2008 FILE # 08-0147
 NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL
 APPROVED PLANS MUST BE KEPT ON SITE

No.	Revision	Date	App.

Designed By: _____ Drawn by: SMH Checked by: _____
 Scale: 1"=20' Date: MAY 08

Project Title:
CHAPMAN RESIDENCE
 A.P. 127, LOT 3C
 #566 PARADISE AVENUE
 MIDDLETOWN, RHODE ISLAND

Client/Owner:
 DUNCAN & BARBARA CHAPMAN
 106 EAST 85TH STREET APT. 2N
 NEW YORK, NY 10028

PERMITTING

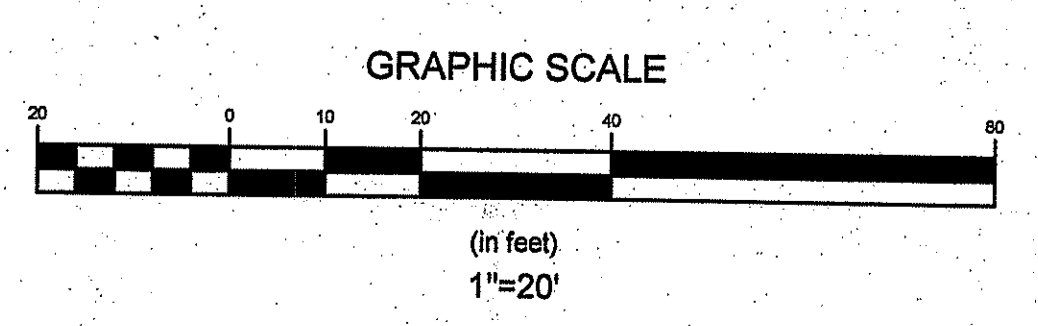
GRADING & DRAINAGE

MAY 12 2008

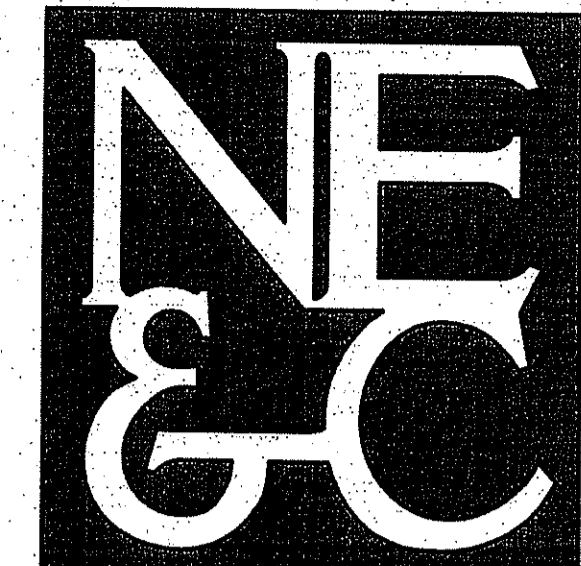
Drawing Number:	G-1
Sheet:	3 of 5
Project Number:	06244.0
Survey Index:	-

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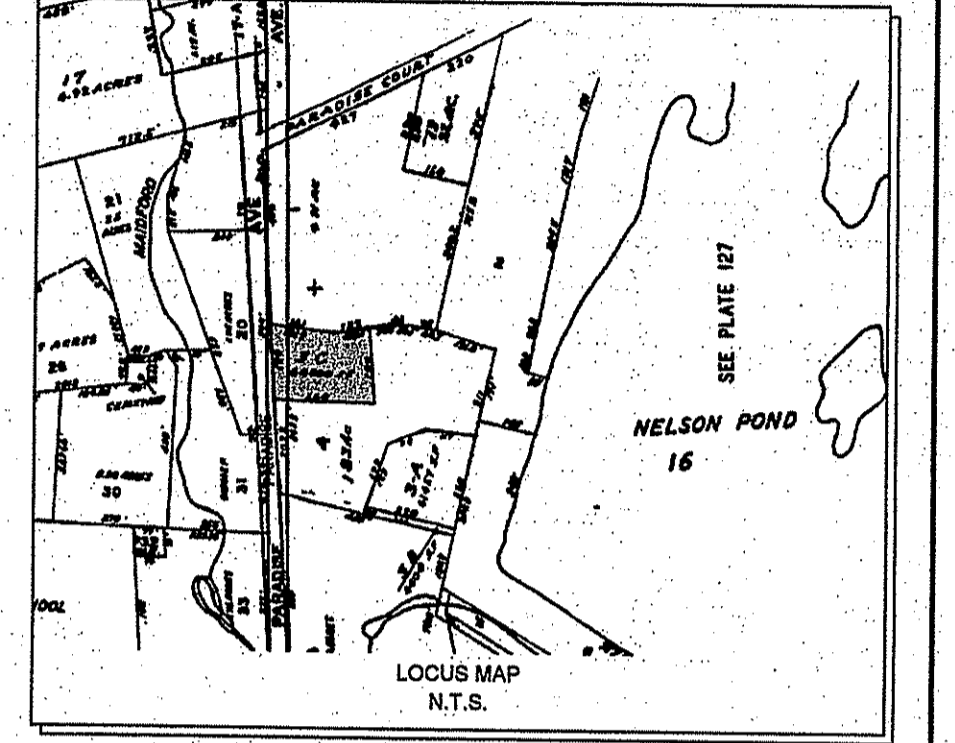


- SITE NOTES:**
1. BASE OF ELEVATIONS: ASSUMED DATUM
 2. NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 3. WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 4. EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND.



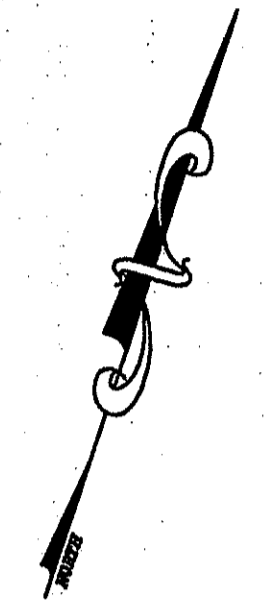
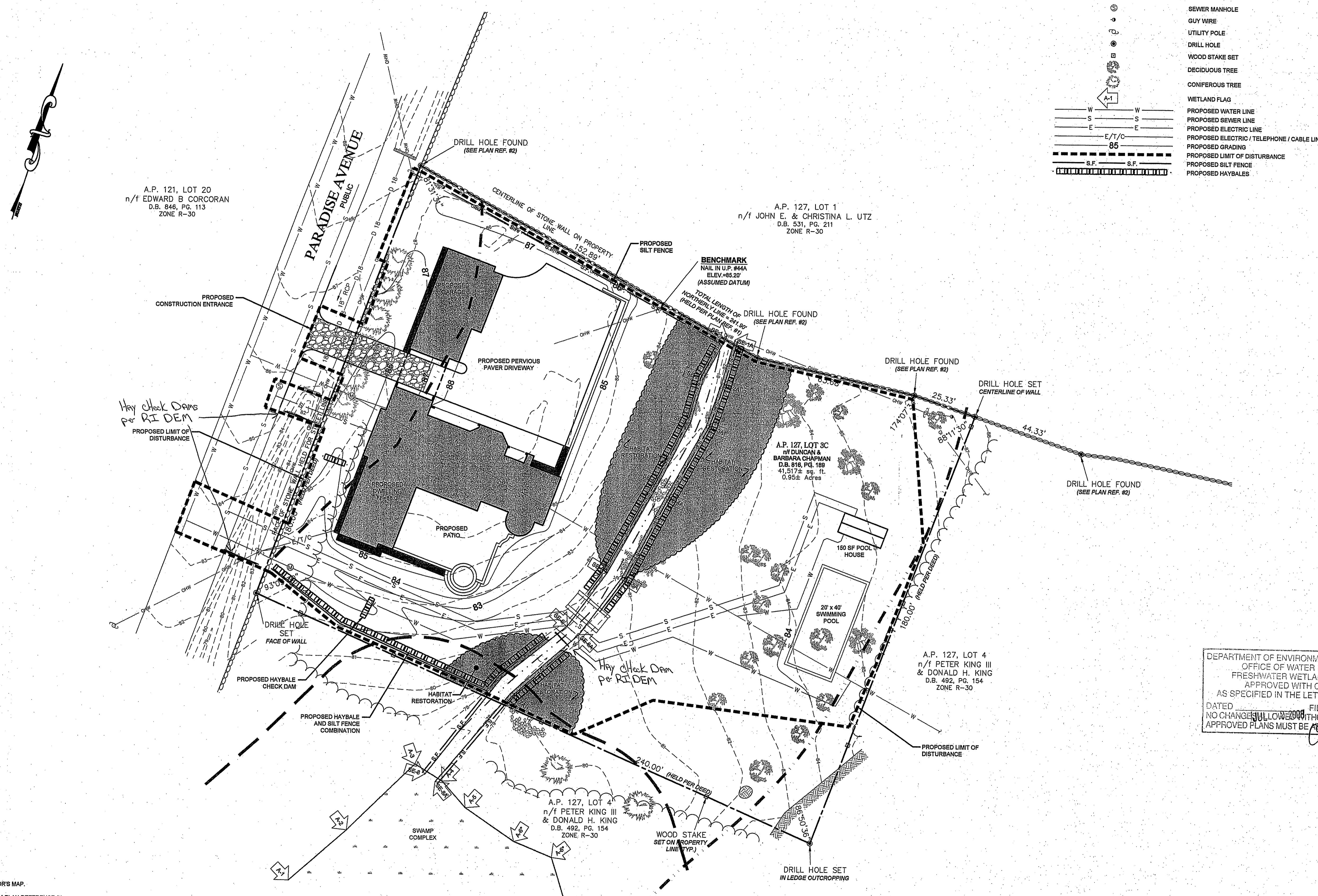
A KNOWLEDGE CORPORATION®
 55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
 PHONE (401) 849-0810 FAX (401) 846-4169
 WWW.NORTHEASTENGINEERS.COM

- SITE/CIVIL
- LAND PLANNING
- WATERFRONT
- SURVEYING
- GEOTECHNICAL
- ENVIRONMENTAL
- TRANSPORTATION
- STRUCTURAL
- MATERIALS TESTING



LEGEND:

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXISTING CONTOUR
	STREAM
	STONE WALL
	BRUSH LINE
	18" RCP DRAIN PIPE
	OVERHEAD WIRE
	12" WATER LINE
	SEWER LINE
	WETLAND EDGE
	50' PERIMETER WETLAND
	100' RIVERBANK WETLAND
	HABITAT RESTORATION BOUNDARY
	WATER METER
	SEWER MANHOLE
	GUY WIRE
	UTILITY POLE
	DRILL HOLE
	WOOD STAKE SET
	DECIDUOUS TREE
	CONIFEROUS TREE
	WETLAND FLAG
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	PROPOSED ELECTRIC LINE
	PROPOSED ELECTRIC / TELEPHONE / CABLE LINE
	PROPOSED GRADING
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED SILT FENCE
	PROPOSED HAYBALES



A.P. 121, LOT 20
 n/f EDWARD B. CORCORAN
 D.B. 846, PG. 113
 ZONE R-30

A.P. 127, LOT 1
 n/f JOHN E. & CHRISTINA L. UTZ
 D.B. 531, PG. 211
 ZONE R-30

A.P. 127, LOT 3C
 n/f DUNCAN & BARBARA CHAPMAN
 D.B. 818, PG. 189
 41,517± sq. ft.
 0.95± Acres

A.P. 127, LOT 4
 n/f PETER KING III & DONALD H. KING
 D.B. 492, PG. 154
 ZONE R-30

A.P. 127, LOT 4
 n/f PETER KING III & DONALD H. KING
 D.B. 492, PG. 154
 ZONE R-30

- SITE NOTES:**
1. BASE OF ELEVATIONS: ASSUMED DATUM
 2. NORTH ARROW SCALED FROM TAX ASSESSOR'S MAP.
 3. WATER LINE TO A.P. 127, LOT 4 SCALED FROM PLAN REFERENCE #1.
 4. EXISTING WATER LINE LOCATION IN ROAD WAS PROVIDED BY NEWPORT PUBLIC WORKS ON FEBRUARY 21, 2008.
 5. WETLAND AREAS WERE DELINEATED BY NATURAL RESOURCE SERVICES AND WETLAND FLAGS WERE SURVEY LOCATED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 6. EXISTING STREAM IS SUBJECT TO A 100 FT RIVERBANK WETLAND.

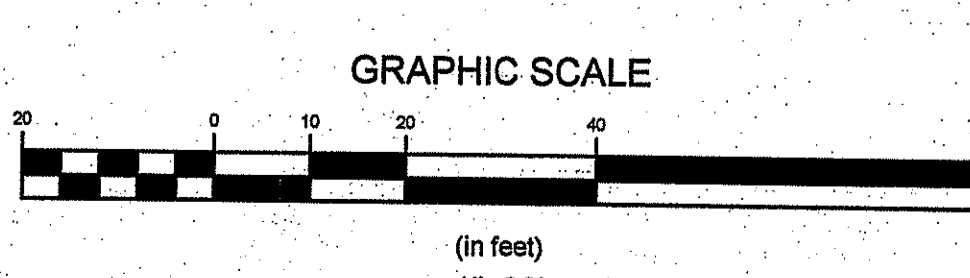
No.	Revision	Date	App.
Designed By:	Drawn by: SMH	Checked by:	
Scale:	1"=20'	Date:	MAY 08
Project Title:			
CHAPMAN RESIDENCE			
A.P. 127, LOT 3C			
#586 PARADISE AVENUE			
MIDDLETOWN, RHODE ISLAND			
Client/Owner:			
DUNCAN & BARBARA CHAPMAN			
106 EAST 85TH STREET APT. 2N			
NEW YORK, NY 10028			
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED 08-01-07 NO CHANGES ALLOWED WITHOUT PREVIOUS WRITTEN APPROVAL APPROVED PLANS MUST BE AS CONSTRUCTION SITE			PERMITTING

SOIL EROSION & SEDIMENT CONTROL PLAN

MAY 12 2008

	Drawing Number:	SESC-1
	Sheet	4 of 5
	Project Number:	06244.0
	Survey Index:	

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE TOWN OF CHARLESTOWN. NO CONSTRUCTION IS TO COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
3. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF MIDDLETOWN AND THE RI DEPARTMENT OF TRANSPORTATION. STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2004 AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
4. ALL ELEVATIONS ARE ON ASSUMED DATUM.
5. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO BE MADE TO PLANS IF NECESSARY. THE EXISTENCE AND LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER UTILITIES NOT ON RECORD OR SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND REINSTATEMENT OF UTILITY SERVICES DAMAGED DURING CONSTRUCTION.
7. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION REQUIRED PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
10. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
11. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. PLEASE CONTACT DIG SAFE PRIOR TO CONSTRUCTION AT 1-888-DIG-SAFE (1-888-344-7233) AND/OR ALL LOCAL UTILITY COMPANIES.

2. NOTES:

- A. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- B. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
- C. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
- D. ALL FILL SHALL BE COMPACTED TO 85% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- E. FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
- F. ALL FILL SHALL BE PLACED AND COMPACTED TO 85% MAX. DENSITY IN LAYERS NOT TO EXCEED 12" IN THICKNESS.
- G. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- H. FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILL.
- I. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
- J. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- K. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
- L. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED AND VEGETATED AREAS HAVE RECEIVED TWO CUTTINGS.

3. VEGETATIVE PRACTICE:

- PERMANENT MEASURES:**
- A. SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
 - B. LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN RIDOT L91 & L92.
 - C. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED. TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS).
 - D. LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
LIMESTONE: 3 TONS/ACRE
FERTILIZER: (10-10-10); 600 LBS/ACRE E.
- SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
WINTER RYE: 112 LBS/ACRE F.
HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

4. MAINTENANCE

- DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, THE EROSION CONTROL MEASURES SHALL BE INSPECTED.
- A. SILT FENCES AND HAY BALES SHALL BE INSPECTED AS INDICATED IN THE DETAILS. AT A MINIMUM THE SILT FENCING AND HAY BALES SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND/OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.
 - B. EXCELSIOR MATTING SHALL BE INSPECTED ON A WEEKLY BASIS.
 - C. STONE APRONS SHALL BE INSPECTED MONTHLY FOR EXCESSIVE ACCUMULATION OF SEDIMENT. IT MAY BE NECESSARY TO REMOVE STONES, EXCAVATE SEDIMENT, AND REPLACE STONES.
 - D. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO PAVING. DURING CONSTRUCTION THE ENTRANCE SHALL BE INSPECTED WEEKLY, AND REESTABLISHED AS NECESSARY.
 - E. SEEDED AREAS SHALL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE ESTABLISHMENT OF A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE TOWN ENGINEER.

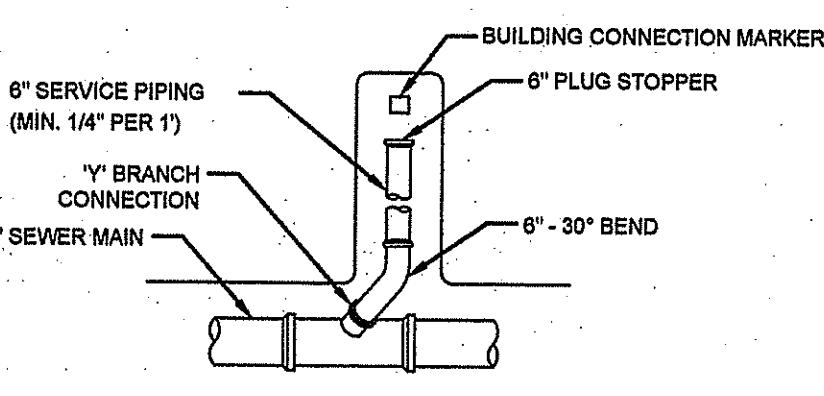
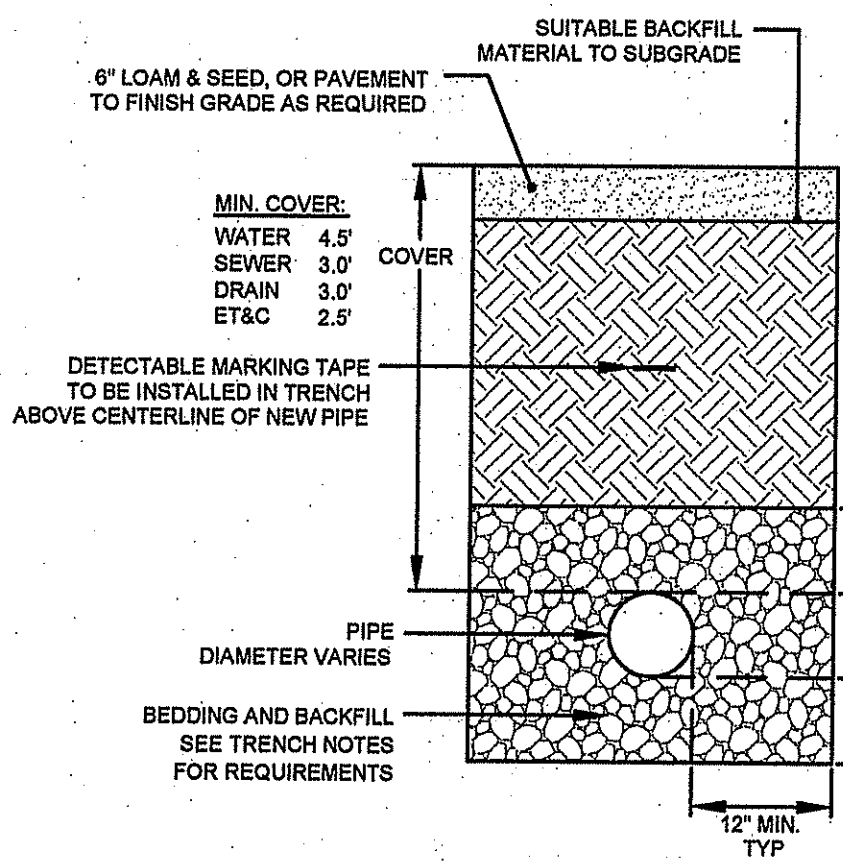
SOIL EROSION & SEDIMENT CONTROL NOTES

- A. CONSTRUCTION SEQUENCE:
A. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
B. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE LOCATED AS SHOWN ON PLANS. CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THIS ENTRANCE.
C. INSTALL SILT FENCES, SILT SACKS, CHECK DAMS AND/OR HAY BALES AS INDICATED ON THE DRAWINGS TO CONTROL EROSION AND PREVENT SEDIMENT CONTAMINATION OF STREAMS AND WETLANDS PRIOR TO ANY EARTH MOVING ACTIVITIES.
D. REMOVE TREES ONLY WHERE NECESSARY. ALL STUMPS TO BE GROUND OR DISPOSED OF OFF SITE.
E. EXCAVATE BASINS/PONDS IN ACCORDANCE WITH THE PLANS AND DETAILS AND ESTABLISH A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE TOWN ENGINEER.
F. START BUILDING AND ROAD CONSTRUCTION.
G. CONSTRUCT THE REQUIRED DRAINAGE CONTROL MEASURES AND UTILITIES.
H. CONSTRUCT LANDSCAPED AREAS. MAINTAIN SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

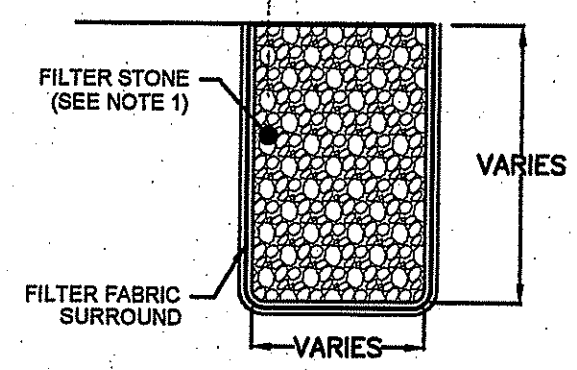
TRENCH NOTES:

1. UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
2. TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
3. SEWER AND DRAIN PIPES SHALL BE LAYED BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
4. ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED. 8" DIA MAINS - 8" DIA SERVICES
5. ALL DRAIN PIPES UNDER VEHICLE TRAVEL SURFACES SHALL BE RCP. CLASS III PIPING SHALL BE USED WITH PIPE COVER 3 FEET OR GREATER. ELSE CLASS IV SHALL BE USED. ADS N-12 (SMOOTH BORE) SHALL BE USED IN ALL OTHER INSTANCES.
6. ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F979.
7. BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T199). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
8. SEWER AND DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.09 TYPE II MATERIAL.
9. WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M6 REQUIREMENTS.
10. UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN OF MIDDLETOWN PUBLIC WORKS RULES AND REGULATIONS.

UTILITY TRENCH DETAIL AND NOTES
SCALE: NOT TO SCALE



SEWER BUILDING CONNECTION DETAIL
SCALE: NOT TO SCALE



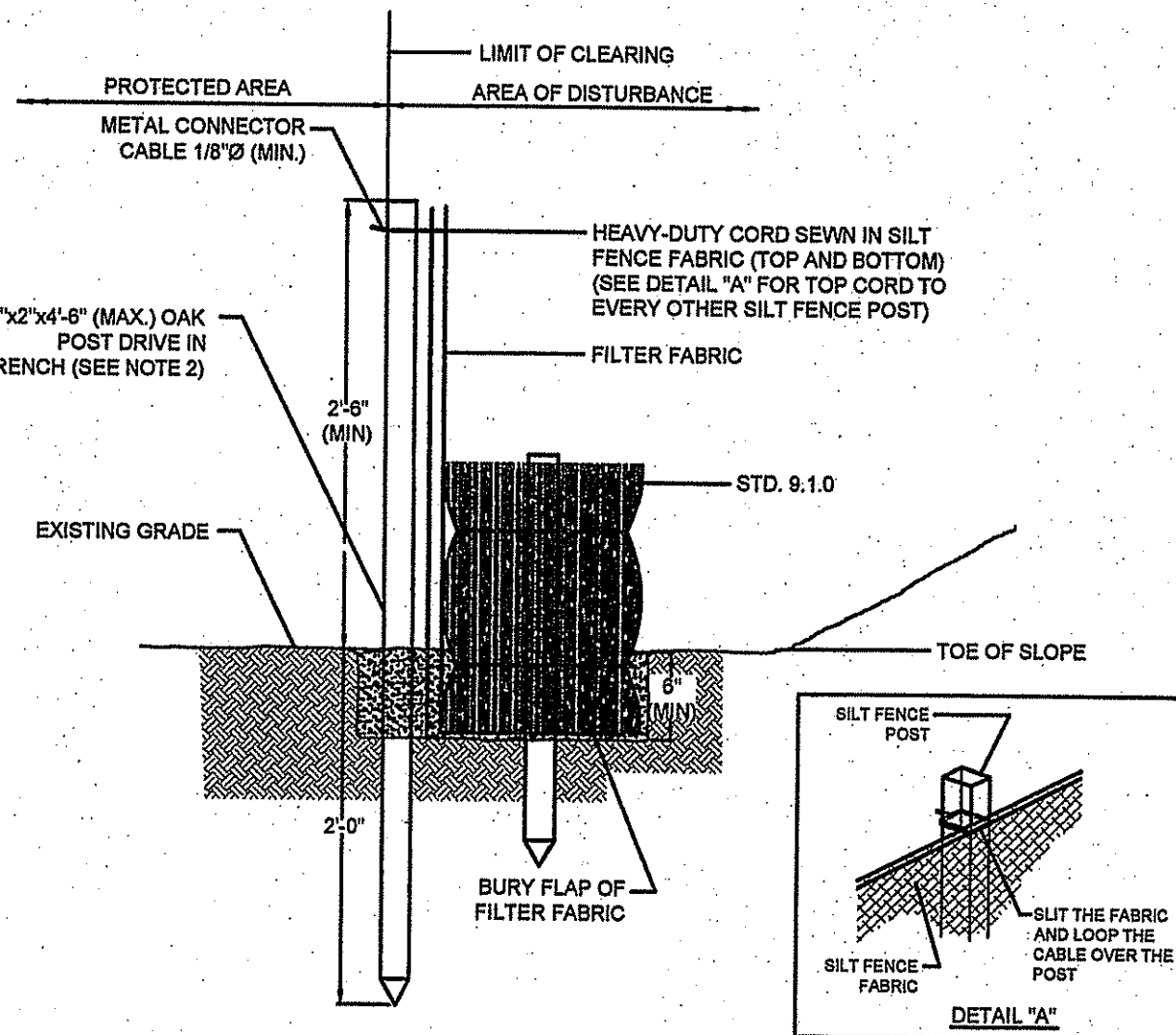
TRENCH WITH STONE TO SURFACE

STONE TRENCH SCHEDULE	ID	WIDTH (FT)	DEPTH (FT)	LENGTH (FT)
1	2	2	1	44
2	2.5	2.5	2	42
3	2	2	2	32
4	2.5	2	2	47

NOTES:

1. FILTER STONE TO BE NATIONAL STONE ASSOCIATION MODIFIED NSA NO. FS-2 TO RIDOT M10.0301.
2. A MINIMUM OF 3 INSPECTION PORTS SHALL BE INSTALLED AND BROUGHT TO GRADE FOR EACH TRENCH.
3. TRENCHES TO BE PROTECTED FROM SILTATION DURING CONSTRUCTION AND UNTIL VEGETATION IS FULLY ESTABLISHED. (ENGINEER TO DO FINAL INSPECTION)

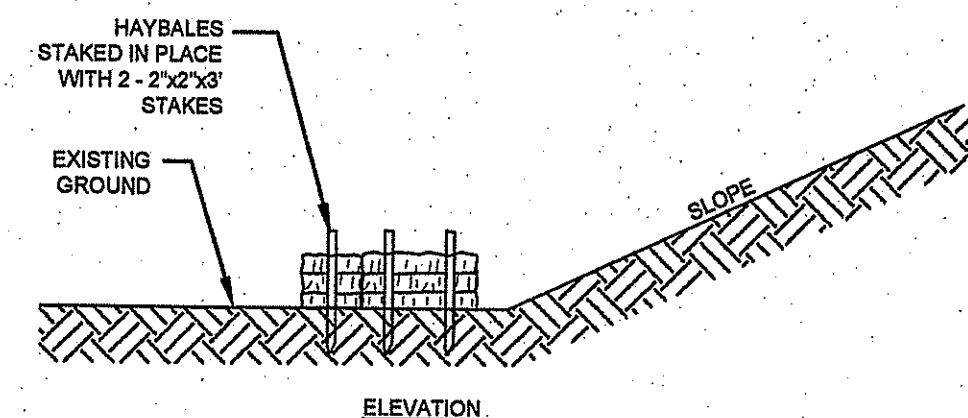
STONE WATER QUALITY TRENCH DETAILS
SCALE: NOT TO SCALE



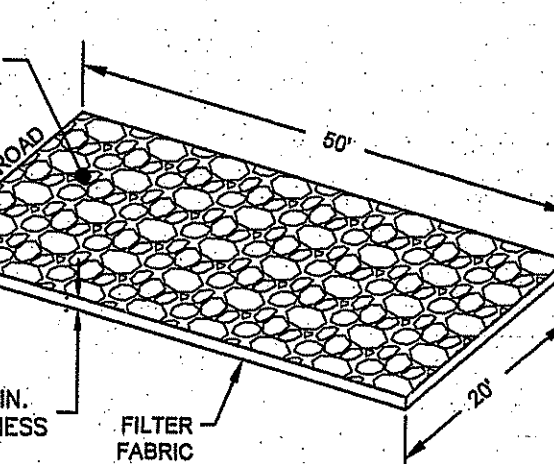
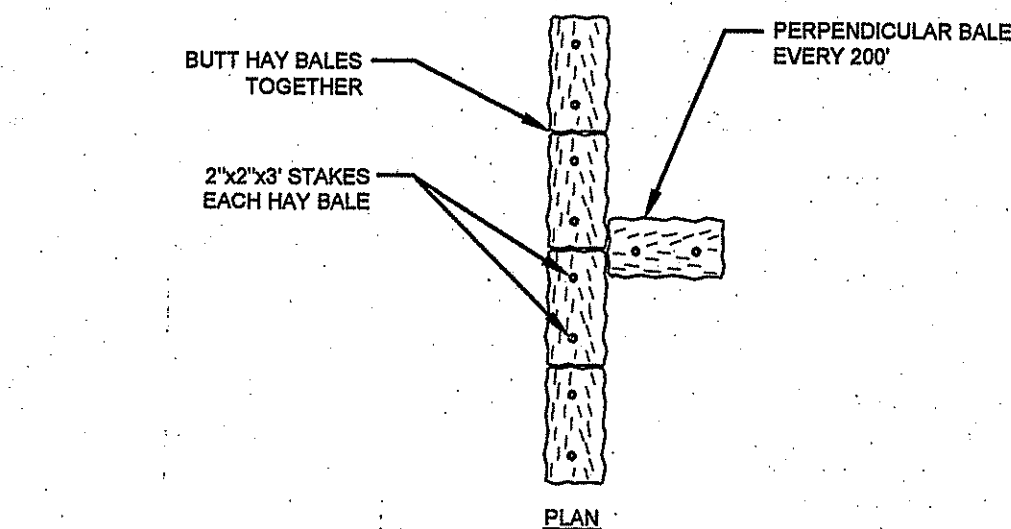
NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x4" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8" (MAX.) O.C. IN WETLAND AREAS AND 4" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
3. 1"x1/4" (MIN.) POSTS ARE PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

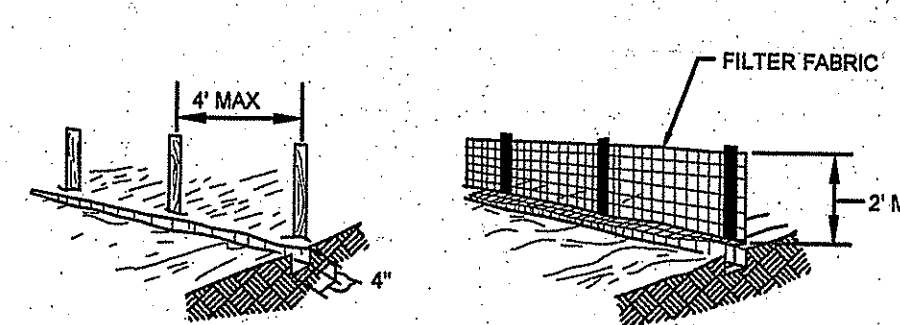
EROSION CONTROL BARRIER
SCALE: NOT TO SCALE



HAYBALE SEDIMENT BARRIER
SCALE: NOT TO SCALE

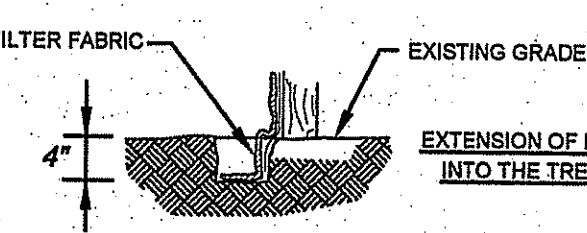


CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE

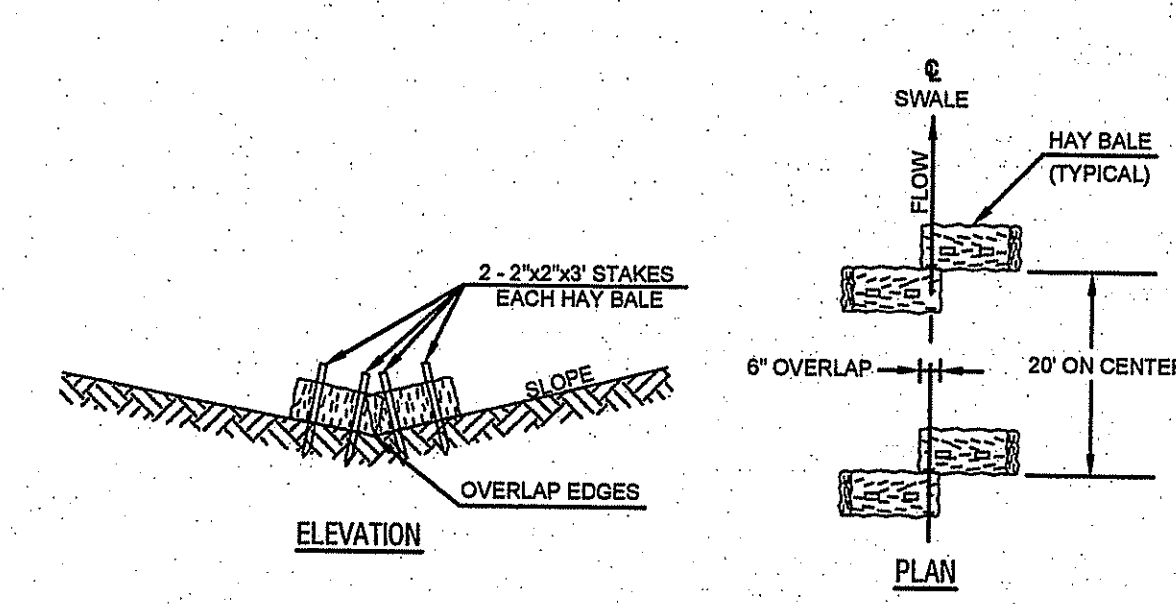


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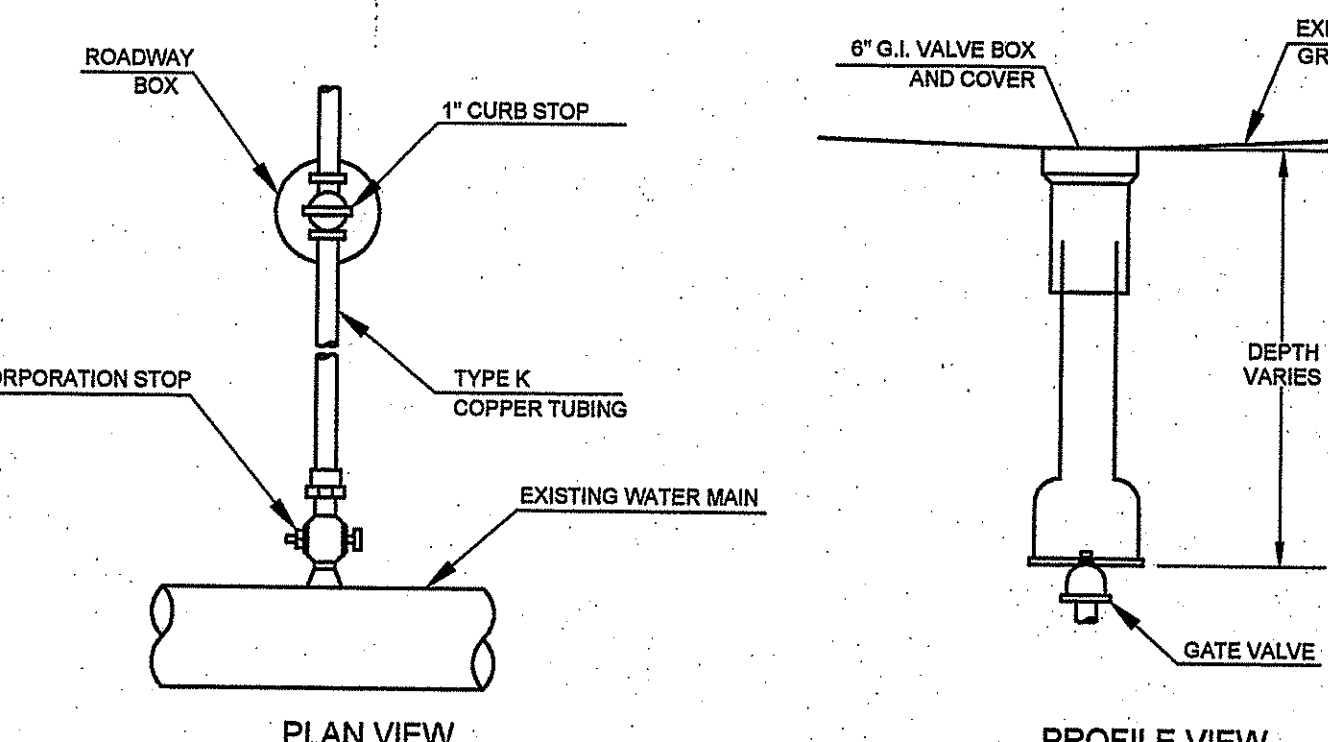
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
3. BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



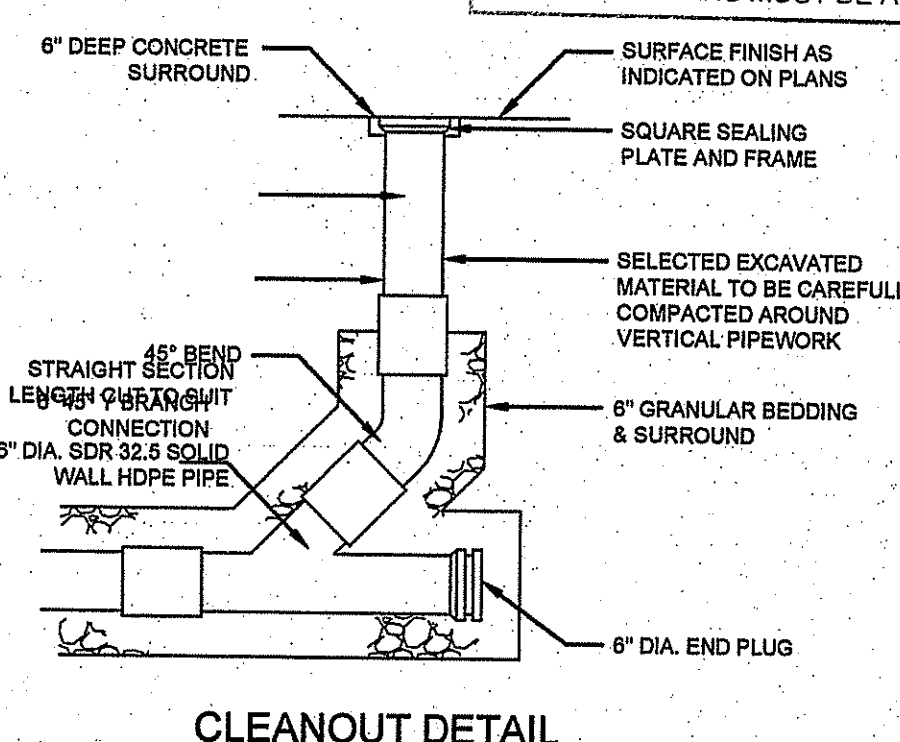
SILT FENCE
SCALE: NOT TO SCALE



HAYBALE CHECK DAM
SCALE: N.T.S.



WATER GATE VALVE / SERVICE CURB STOP
SCALE: NOT TO SCALE



CLEANOUT DETAIL
SCALE: NOT TO SCALE

NORTHEAST ENGINEERS & CONSULTANTS, INC.

NE & CO

A KNOWLEDGE CORPORATION®

55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
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