

# SALTWOOD FARM

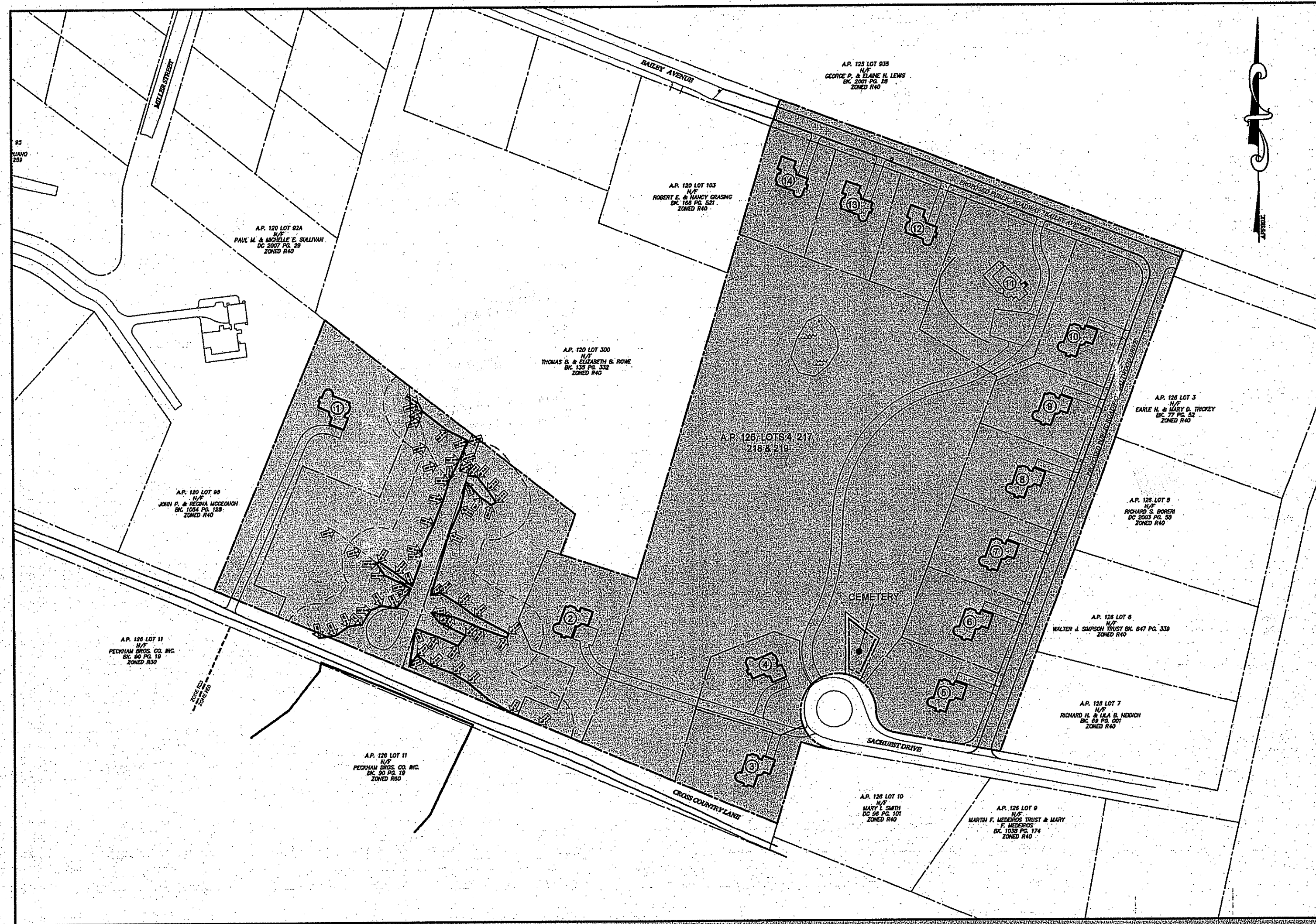
## MAJOR CONSERVATION SUBDIVISION

### A.P. 126 LOTS 4, 217, 218 & 219

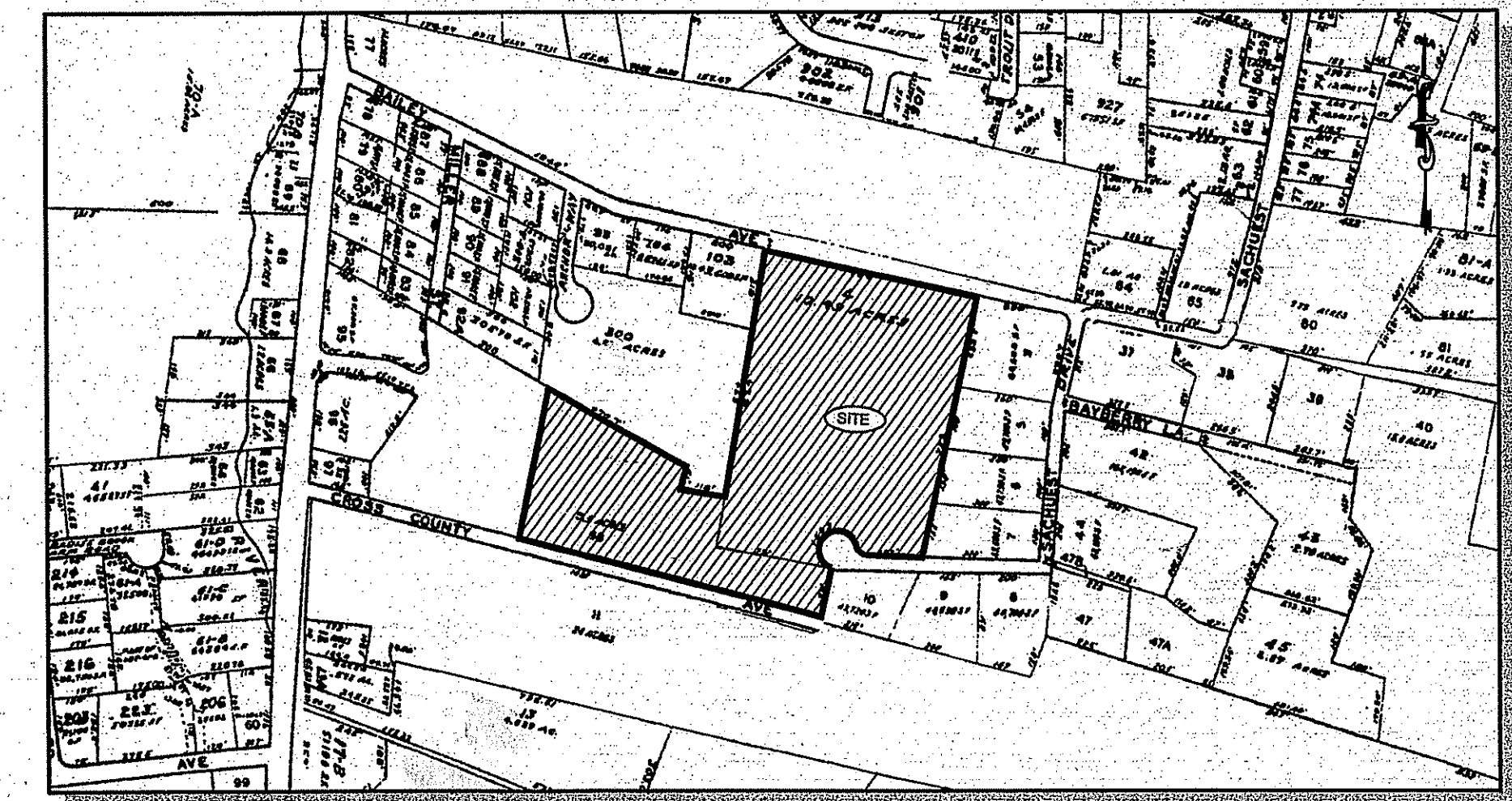
### BAILEY AVENUE AND SACHUEST DRIVE

### MIDDLETOWN, RHODE ISLAND

NOV 12 2009



**SITE PLAN**  
1" = 120'



**LOCUS MAP**  
(TAX ASSESSORS - NTS)

**CLIENT/OWNER:**

PETER GALLIPEAU  
P.O. BOX 4286  
MIDDLETOWN, RHODE ISLAND  
02842

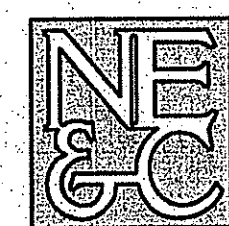
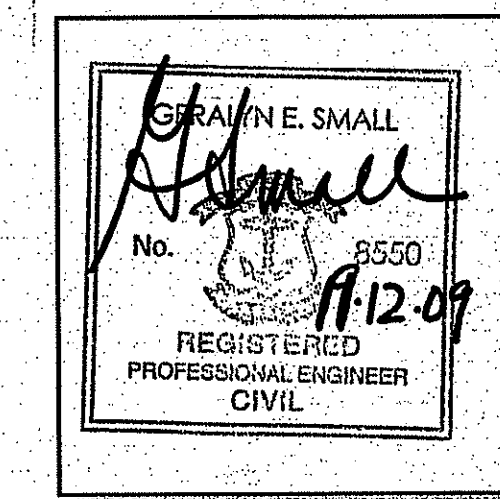
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009. FILE # 09-0209  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**SUBMISSION SUMMARY**

AGENCY:	DATE:	COMMENTS:
RIDEM WETLANDS	AUG 2008	WETLAND VERIFICATION
TOWN OF MIDDLETOWN	AUG 2009	PRELIMINARY SUBDIVISION
RIDEM WETLANDS	AUG 2009	PRELIMINARY DETERMINATION
TOWN OF MIDDLETOWN (REV)	SEP 2009	PRELIMINARY APP. SUBMISSION
RIDEM WETLANDS (REV)	OCT 2009	PRELIMINARY DETERMINATION (REVISION)



**NORTHEAST ENGINEERS & CONSULTANTS, INC.**  
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**GENERAL NOTES:**

- ALL ELEVATIONS BASED ON THE NAVD 88.
- THE SITE IS LOCATED WITHIN THE MIDDLETOWN R-40 ZONE.
- NORTH ARROW SCALED FROM TAX ASSESSOR'S PLAT MAP.
- THE ENTIRE SITE IS WITHIN FLOOD ZONE 'C' (AREA OF MINIMAL FLOODING) PER FEMA COMMUNITY PANEL NUMBER 445401 002 D, REVISED JUNE 16, 1992.
- TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PERFORMED BY NORTHEAST ENGINEERS AND CONSULTANTS, INC. IN JUNE 25 2002.
- WETLAND FLAGGING WAS PERFORMED BY KATHLEEN P. MANGAN, INC. AND SURVEY LOCATED BY NE&C, INC. IN AUGUST 2007. WETLANDS VERIFIED BY RIDEM IN SEPTEMBER 2008 (FILE NO. 08-0237).
- PROPERTY LINES AND INFORMATION SHOWN ON THESE PLANS ARE TAKEN FROM PLAN ENTITLED, "ADMINISTRATIVE SUBDIVISION PLAN", A.P. 126 LOTS 4, 216, 217, & 219, SACHUEST DRIVE & CROSS COUNTRY AVENUE, MIDDLETOWN, R.I., PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC., DATED JULY 2007, SCALE 1" = 80'.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, MATERIAL, SPECIFICATIONS AND BENCHMARK AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE COMMENCING THE PROJECT.
- 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.
- 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 THE 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 OF 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).

**UTILITY NOTES:**

- ALL PROPOSED LOTS SHALL BE SUPPLIED WITH WATER FROM INDIVIDUAL PRIVATE WELLS OR FROM MUNICIPAL WATER MAINS. BOTH SOURCES HAVE BEEN SHOWN ON THESE PLANS FOR PERMITTING PURPOSES ONLY.
- EACH RESIDENCE SHALL BE CONNECTED TO THE MUNICIPAL SEWER SYSTEM. BUILDING SEWER CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS AND THE SPECIFICATIONS OF THE TOWN OF MIDDLETOWN PUBLIC WORKS DEPT.
- ALL RESIDENCES ARE 4 BEDROOM DWELLINGS.
- PROPOSED RESIDENCES CONNECTING TO SEWER FORCE MAIN SHALL HAVE INDIVIDUAL PUMP STATIONS. THESE PUMP STATIONS SHALL BE DESIGNED AT TIME OF INDIVIDUAL RESIDENCE CONSTRUCTION AND SHALL BE PERMITTED SEPARATELY. OFF SITE STRUCTURES CONNECTING TO THE FORCE MAIN BY WAY OF PROVIDED STUBS SHALL LIKEWISE BE FROM PUMPED LINES.
- ALL TELEPHONE, ELECTRICAL, AND CABLE CONNECTIONS SHOWN ON THIS PLAN MAY BE RELOCATED UPON DESIGN FROM THE APPROPRIATE UTILITY COMPANIES AND ARE TO BE INSTALLED ACCORDING TO THEIR STANDARDS AND SPECIFICATIONS.

**GRADING NOTES**

- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED BY THE TOWN AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT RUNOFF FROM LEAVING THE SITE.
- ALL GRADED AREAS SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER THE GRUBBING WORK HAS BEEN COMPLETED.
- THE TOWN SHALL BE INFORMED OF THE LOCATION OF THE DISPOSAL SITE, IF ANY, FOR THE PROJECT.
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE GRADING WORK IS INITIATED.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- NONCOMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.

**EXTENDED DETENTION BASIN NOTES**

- BASIN GRADING SHALL ADHERE TO ALL ABOVE GRADING NOTES.
- BASIN SHALL BE EXCAVATED TO A DEPTH OF 1 FOOT BELOW BOTTOM ELEVATION SHOWN ON PLANS. EXCAVATION SHALL THEN BE LINED WITH A 4" LAYER OF LOW PERMEABILITY COMPACTED CLAY. BASIN FLOOR SHALL THEN BE BROUGHT TO GRADE WITH A 50/50 MIXTURE OF SAND AND LOAM.
- BASIN SHALL BE SEEDED IN ACCORDANCE WITH THE MAINTENANCE NOTES.
- CLAY LAYER MAY BE SUBSTITUTED WITH AN IMPERMEABLE PLASTIC LINER. EXCAVATION DEPTH MAY BE ADJUSTED ACCORDINGLY.

**VEGETATED DEPRESSION NOTES**

- VEGETATED DEPRESSION GRADING SHALL ADHERE TO ALL ABOVE GRADING NOTES.
- DEPRESSIONS SHALL BE EXCAVATED TO A DEPTH OF 1 FOOT BELOW INTENDED BOTTOM ELEVATION. BASIN FLOOR SHALL THEN BE BROUGHT TO GRADE WITH A 50/50 MIXTURE OF SAND AND LOAM.
- BASIN SHALL BE SEEDED WITH NEW ENGLAND WET SEED MIX (WETMIX) BY NEW ENGLAND WETLAND PLANTS INC.

**MAINTENANCE NOTES:**

THE STORMWATER MAINTENANCE SCHEDULE IS DESIGNED TO OUTLINE MINIMUM MAINTENANCE REQUIREMENTS FOR THESE SYSTEMS.

- GRASSES AND/OR SPECIFIED VEGETATION SHALL BE PLANTED AROUND AND WITHIN THE DETENTION BASIN AND GRASS SWALES IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION.
- TREES PLANTED IN THE TREE BOX FILTERS SHALL BE MONITORED AND WATERED BY THE CONTRACTOR AS NECESSARY IN ORDER TO ENSURE THAT THE VEGETATION IS ESTABLISHED. MAINTENANCE OF THE TREE AFTER PLANTING WILL BE CRITICAL TO THE SURVIVAL OF THE TREE AND EFFECTIVENESS OF THE DEVICE. SHOULD THE TREE FAIL TO TAKE ROOT AND LIVE, THE TREE WILL BE REPLACED IN KIND.
- THE DETENTION BASIN SHALL BE MOWED AT LEAST THREE TIMES PER GROWING SEASON TO PREVENT UNWANTED GROWTH. GRASSED SWALES SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON. SWALES SHOULD NOT BE CUT SHORTER THAN 4 INCHES.
- BARE SPOTS AND ERODED AREAS WITHIN GRASSED SWALES MUST BE RESEDED IMMEDIATELY FOLLOWING OBSERVATION.
- THE BASINS AND GRASSED SWALES SHALL BE INSPECTED AT LEAST TWICE A YEAR FOR EVIDENCE OF EROSION. AREAS WHERE EROSION PROBLEMS ARE OBSERVED SHALL BE RE-SEEDED AND, IF DEEMED NECESSARY BY THE DESIGN ENGINEER, AN EROSION CONTROL BLANKET SHALL BE INSTALLED TO PREVENT FURTHER DAMAGE.
- THE DETENTION BASIN SHALL BE INSPECTED FOR POOLS OF STAGNANT WATER. EVIDENCE OF PONDING SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER, AND THE AREA SHALL BE RE-GRADED AND RESTORED, TO PREVENT THE FORMATION OF HABITAT AREAS FOR NUISANCE INSECTS.
- IF THERE IS AN OBVIOUS LOSS OF DRAINAGE FROM THE DETENTION POND, ESPECIALLY WHEN POOLS OF STORMWATER ARE EVIDENT, THE FILTER FABRIC PROTECTING THE OUTLET PIPE TRENCH MAY BE CLOGGED WITH SEDIMENTS. THE OUTLET PIPE TRENCH SHALL BE RECONSTRUCTED AS NECESSARY ACCORDING TO THE DESIGN DETAIL. AFTER RECONSTRUCTION, THE BASIN FLOOR SHALL BE IMMEDIATELY RESEDED TO PREVENT EROSION. THIS WORK SHALL BE DONE DURING THE GROWING SEASON ONLY.
- TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM ALL SURFACE STORM WATER FACILITIES AT LEAST FOUR TIMES A YEAR TO PREVENT BLOCKAGE OF OUTLET PIPES. IN LOCATIONS WHERE SIGNIFICANT VOLUMES OF DEBRIS ARE OBSERVED, THE DEVICES SHALL BE CAREFULLY INSPECTED TO IDENTIFY IF ANY DAMAGE HAS OCCURRED.
- TRASH, LITTER AND DEBRIS SHALL BE REMOVED FROM TREE BOX FILTERS AT LEAST FOUR TIMES A YEAR. SEDIMENTS COLLECTED IN THE TOP STRATA OF THE FILTER SHALL BE REMOVED DURING THESE INSPECTIONS AND DISPOSED OF AT AN APPROPRIATE OFF-SITE LOCATION. SHOULD WEATHER CONDITIONS RESULT IN EXCESSIVE ROAD SANDING OPERATIONS, ADDITIONAL SEDIMENT COLLECTION OPERATIONS SHOULD BE UNDERTAKEN.
- THE STRUCTURAL INTEGRITY OF ALL OUTLET STRUCTURES SHALL BE CHECKED AT LEAST TWICE A YEAR. STRUCTURAL FAILTS, CRACKED PIPES, OR DAMAGED GRATE/TRASH RACKS SHALL BE REPAIRED IMMEDIATELY.
- DETENTION BASIN FOREBAY, GRASS SWALES AND WET POND FOREBAYS SHALL BE INSPECTED AT LEAST ONCE EVERY TWO YEARS. DURING THESE INSPECTIONS ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE OFF-SITE FACILITY.
- OVERTIME, IT MAY BE NECESSARY TO REPLACE THE TREES WITHIN THE TREE BOX FILTERS DUE TO ROOT BALL CONSTRUCTION OR EXCESSIVE SOIL CONTAMINATION. DURING THE TREE REPLACEMENT PROCESS, THE SOIL/SAND MIXTURE SHALL ALSO BE REPLACED AND THE UNDERDRAIN INSPECTED FOR FAILURE. ALL DISCARDED SAND/SOIL MIXTURE SHALL BE DISPOSED OF AT AN APPROPRIATE OFF-SITE FACILITY.
- ALL ROADS SHALL BE SWEEP ANNUALLY IN THE SPRING, TO REMOVE ACCUMULATED SEDIMENTS.
- MAINTENANCE OF THE STORM WATER SYSTEM DURING CONSTRUCTION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF SITE CONTRACTOR.
- UPON COMPLETION OF THE CONSTRUCTION, MAINTENANCE OF THE STORM WATER SYSTEM WITHIN THE BOUNDS OF THE SUBDIVISION SHALL BECOME THE RESPONSIBILITY OF THE HOME OWNERS ASSOCIATION. MAINTENANCE OF STRUCTURES AND GRASSED SWALES WITHIN PUBLIC ROADWAYS SHALL BECOME THE RESPONSIBILITY OF THE TOWN OF MIDDLETOWN.

**SOIL EROSION & SEDIMENT CONTROL PLANS:**

**I. CONSTRUCTION SEQUENCE:**

- DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
- ESTABLISH PROPERTY LIMITS.
- INSTALL STONE CONSTRUCTION ENTRANCE AT UTILIZED DRIVEWAY.
- COMMENCE REMOVAL OF TREES INDICATED.
- INSTALL HAYBALES AND SILT FENCE AS DELINEATED ON PLAN.
- COMMENCE ROUGH GRADING.
- BEGIN INSTALLATION OF REQUIRED DRAINAGE SYSTEM, INSTALLING ALL INLET PROTECTION SILT SACKS AS THE CONSTRUCTION OF EACH STRUCTURE IS COMPLETED.
- CONSTRUCT LANDSCAPE AREAS AND MAINTAIN THE SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

**II. GENERAL NOTES:**

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. 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 ROUGH GRADED AREAS 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 AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- FILL INTENDED TO SUPPORT BUILDING STRUCTURE AND CONDUCTS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
- ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 12" IN THICKNESS.
- FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LUGS, 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 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 UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.
- HAYBALES ARE TO BE PLACED AT CONSTRUCTION ENTRANCE DURING NON-WORKING HOURS.

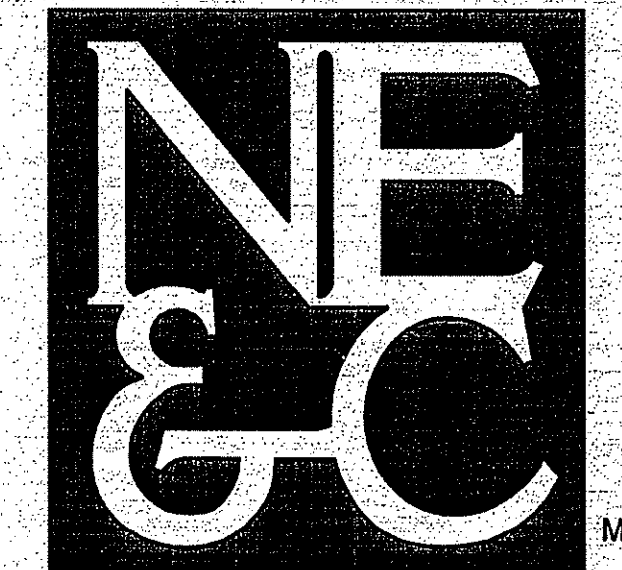
**III. VEGETATIVE PRACTICE:**

- SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
- 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.
- LIMESTONE AND FERTILIZER SHALL BE APPLIED TO THE FOLLOWING RATE:  
LIMESTONE: 9 TONS/ACRE  
FERTILIZER: (10-10-10): 600 LBS/ACRE
- SEED SHALL BE APPLIED AT THE FOLLOWING RATE:  
WINTER RYE: 112 LB/ACRE
- HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

**ABBREVIATIONS:**

AC	ASPHALT PAVEMENT
ADJ	ADJACENT
AP	ASSESSOR'S PLAT
ACCESS	ACCESSIBLE
ARCH	ARCHITECT
BC	BOTTOM OF CURB
BH	BORING HOLE
BIT	BITUMINOUS
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECT
COTG	CLEAN OUT TO GRADE
CF	CUBIC FOOT
DEMO	DEMOLISH
DI	DRAIN INLET
DIA	DIAMETER
DMH	DRAIN MANHOLE
dp	DROP PIPE
DS	DOWN SPOUT
DWG	DRAWING
E	ELECTRIC
ELEVEL	ELEVATION
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EXIST	EXISTING
EXP	EXPANSION
FFE	FINISH FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FT	FEET
G	GAS
GAL	GALLON
GV	GATE VALVE
INV	INVERT
JT	JOINT
L	LENGTH
LAND	LANDSCAPE
NTS	NOT TO SCALE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
PAVT	PAVEMENT
PVC	POLYVINYLCHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RECONN	RECONNECT
RIBB	RHODE ISLAND HIGHWAY BOUND
RIDOT	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
ROW	RIGHT OF WAY
S	SLOPE, SEWER
SF	SQUARE FEET
SHT	SHEET
SMH	SEWER MANHOLE
STA	STATION
STRUCT	STRUCTURAL
TC	TOP OF CURB
TOP	TOP OF SURFACE
UGT	UNDERGROUND TELEPHONE
TYP	TYPICAL
W	WATER
WV	WITH

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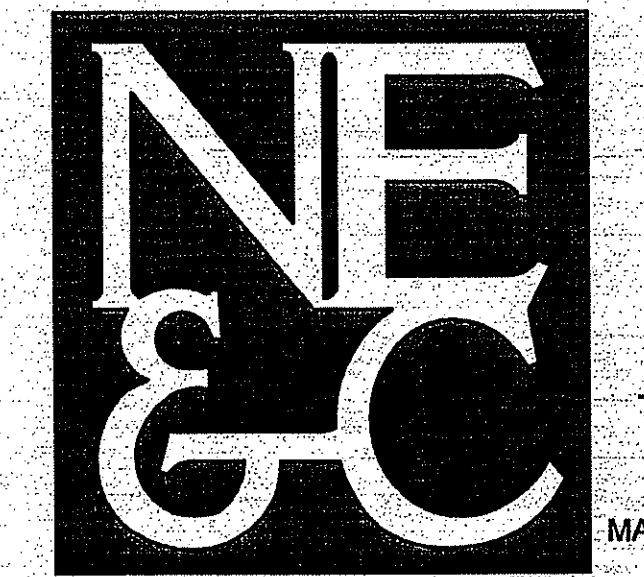
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SITE/CIVIL  
LAND PLANNING  
WATERFRONT  
SURVEYING  
GEOTECHNICAL  
ENVIRONMENTAL  
TRANSPORTATION  
STRUCTURAL  
MATERIALS TESTING

NOV 12 2009

No.	Revision	Date	App.
Designed By: JUR	Drawn by: JUR	Checked by: --	
Scale:	Date:	OCT09	
Project Title:			
<b>SALTWOOD FARM</b> A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842			
Client/Owner:			
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Issued for:			
PERMITTING			
Drawing Title:			
<b>SITE / CIVIL NOTES</b>			
Drawing Number:			
N-1			
Sheet 2 of 22			
Project Number:			
06088.0			
Survey Index:			
13 - 126 - 218			
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED DEC 30 2009 FILE # 09-0709 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE. <i>W. Joseph Casey</i>			
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.			



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

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*W. Joseph Casey*

No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:		Date:	OCT09
Scale:	1"=60'		

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

Client/Owner:  
 PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

Issued for:  
 PERMITTING

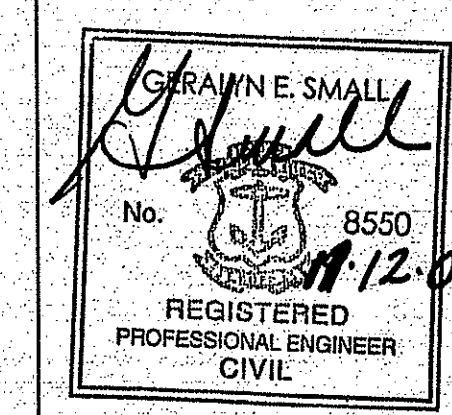
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Drawing Number:  
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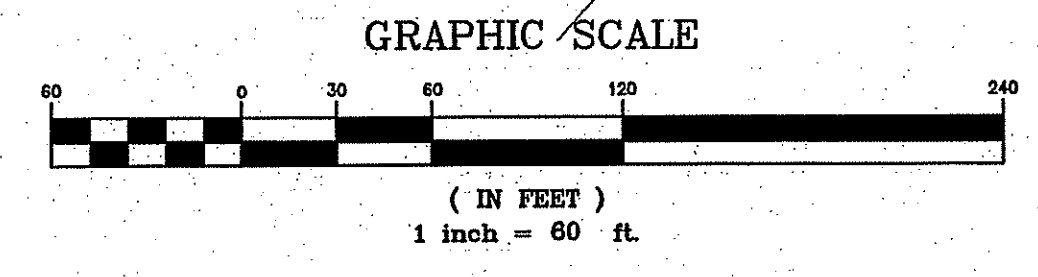
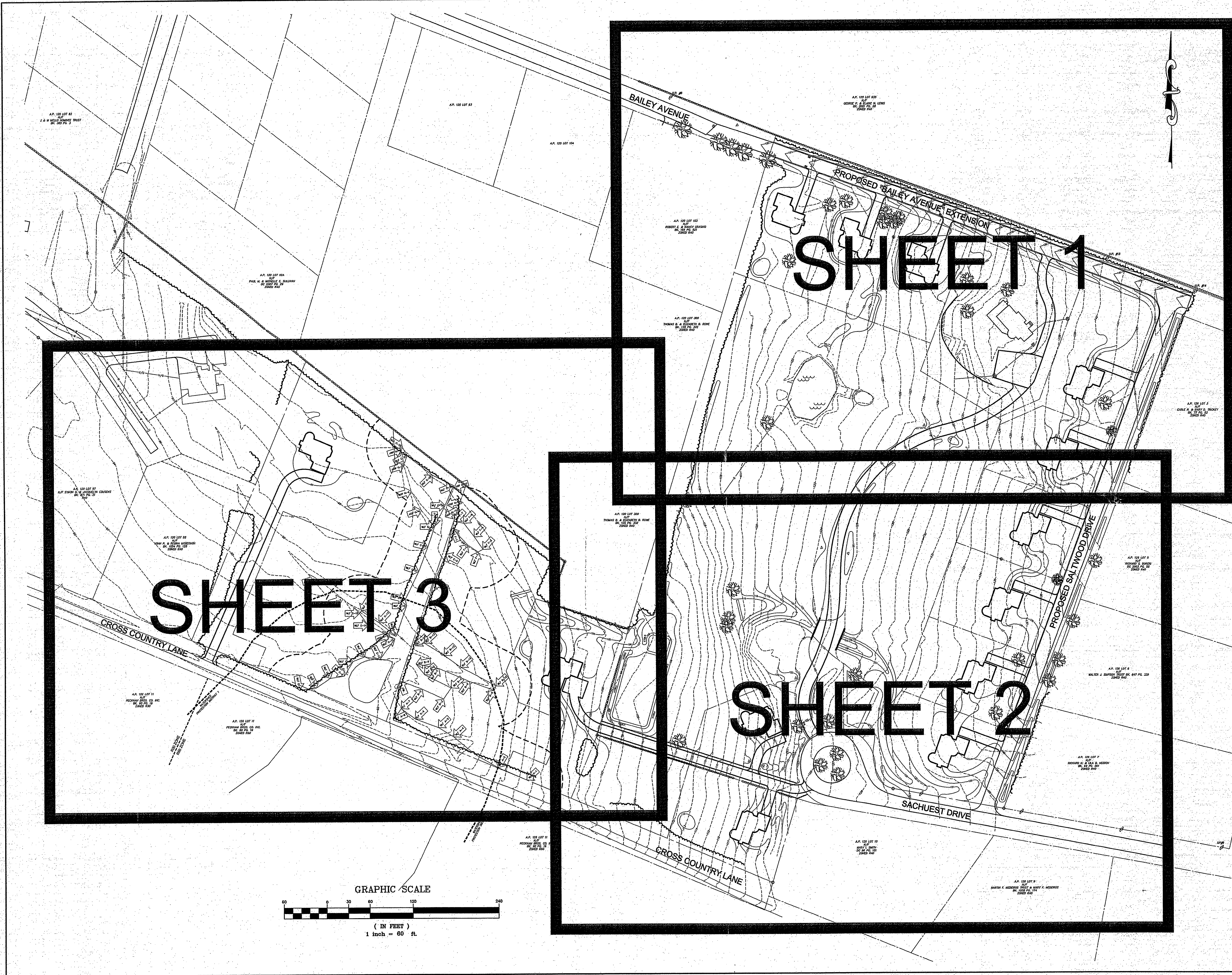
Sheet 3 of 22

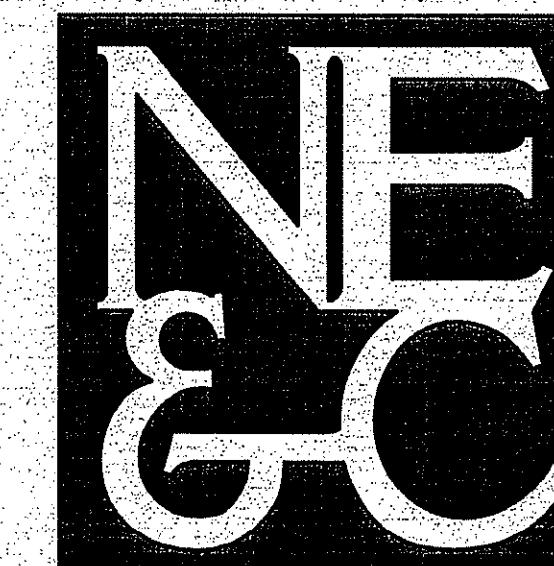
Project Number:  
 06088.0

Survey Index:  
 13 - 126 - 218



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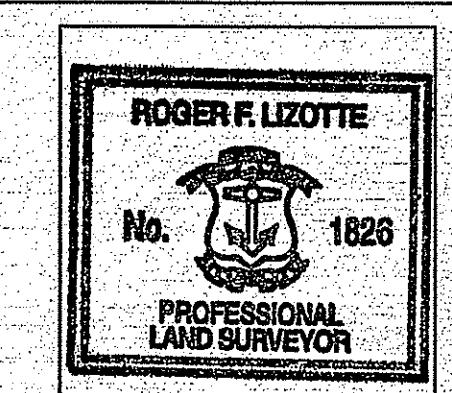
- SITE/CIVIL
- LAND PLANNING
- WATERFRONT
- SURVEYING
- GEOTECHNICAL
- ENVIRONMENTAL
- TRANSPORTATION
- STRUCTURAL
- MATERIALS TESTING

- LEGEND:**
- PROPERTY LINE
  - - - ABUTTING PROPERTY LINE
  - - - EASEMENT
  - - - EXISTING TOPOGRAPHIC CONTOUR
  - - - STONEWALL
  - - - TREELINE / BRUSHLINE
  - - - WETLAND BUFFER
  - - - WATERSHED PROTECTION DISTRICT
  - - - EDGE OF WETLANDS
  - WETLAND FLAG
  - X X X FENCELINE
  - S S S EXISTING SEWER LINE
  - D D D EXISTING DRAIN LINE
  - W W W EXISTING WATER LINE
  - U/G U/G EXISTING UNDERGROUND ELEC / TELE
  - EXISTING CATCH BASIN
  - EXISTING UTILITY POLE
  - EXISTING WELL
  - EXISTING SEWER MANHOLE
  - EXISTING REBAR
  - EXISTING DRILLHOLE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 30 2009 FILE # 09-0199  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Casey*

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



DATE: 11/12/09  
 BY: *[Signature]*  
 REGISTERED PROFESSIONAL LAND SURVEYOR

No.	Revision	Date	App.

Designed by: JJR Drawn by: JJR Checked by: ---  
 Scale: 1"=30' Date: OCT09  
 Project Title:

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

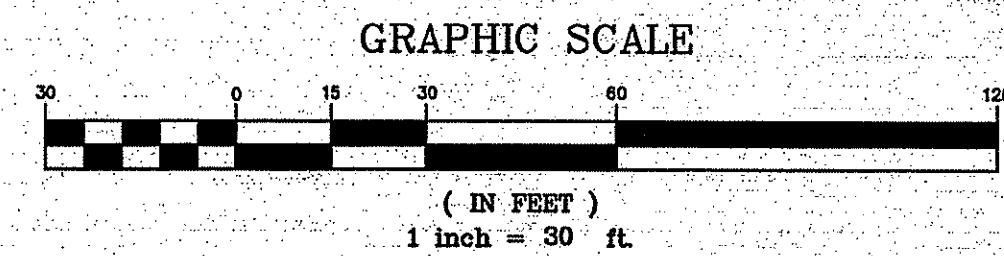
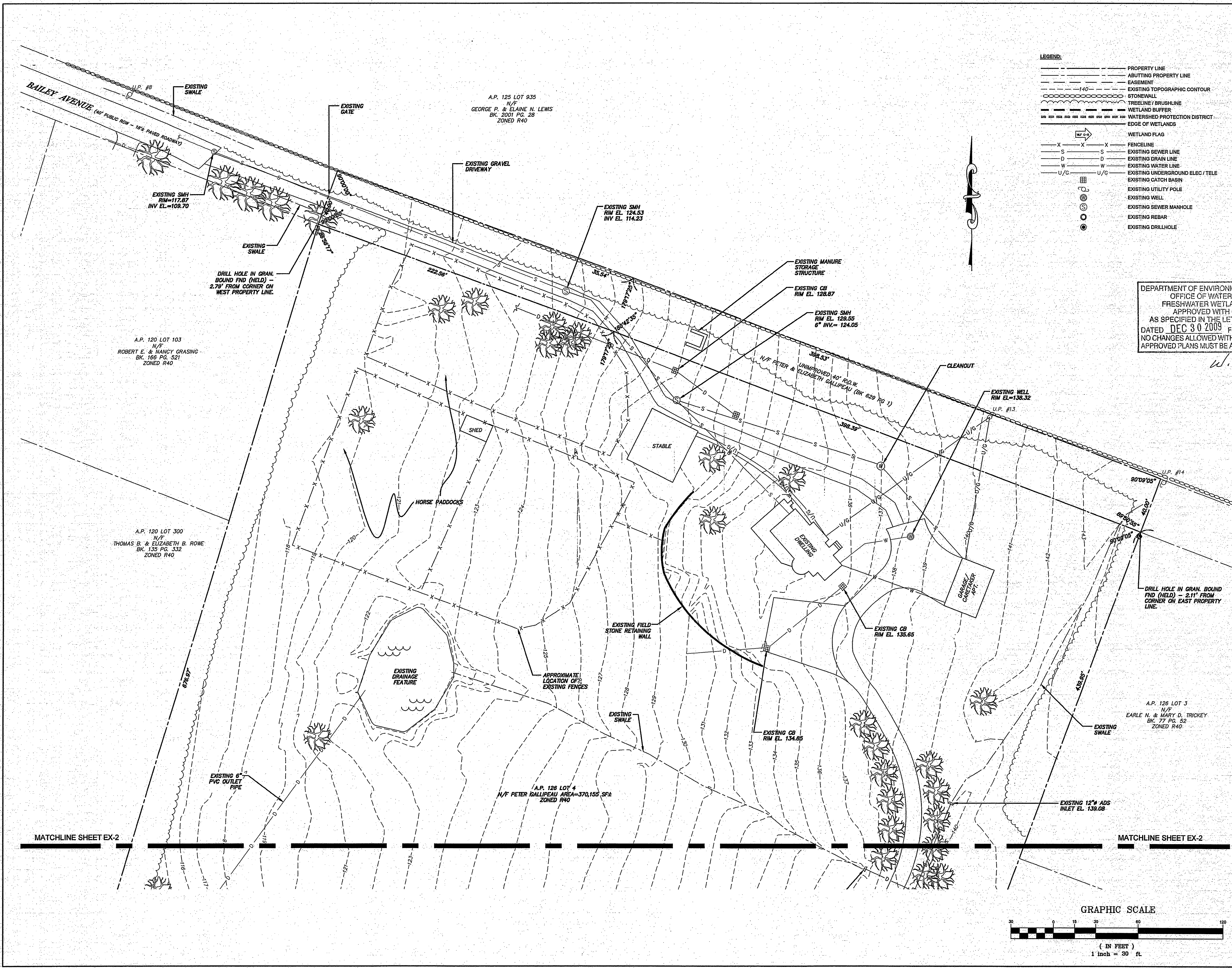
Client/Owner:  
 PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

Issued for:  
 PERMITTING

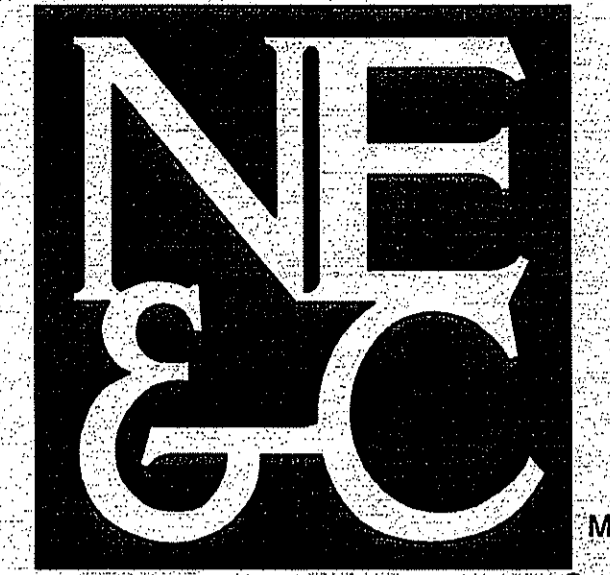
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**EXISTING CONDITIONS SHEET 1**

	Drawing Number: <b>EX-1</b>
	Sheet 4 of 22
	Project Number: <b>06088.0</b>
	Survey Index: <b>13 - 126 - 218</b>

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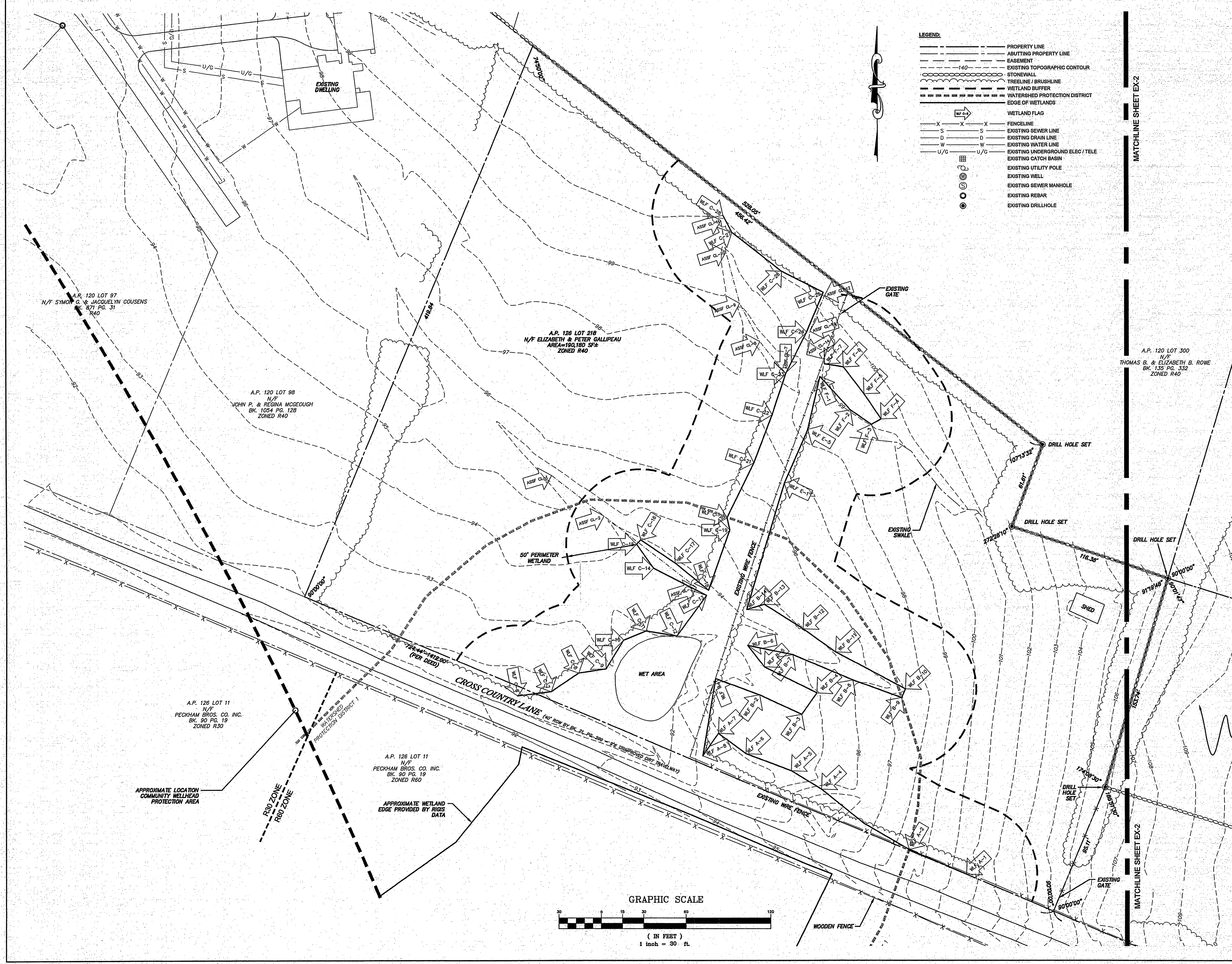


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- STRUCTURAL
- MATERIALS TESTING

- LEGEND:**
- PROPERTY LINE
  - - - ADJUTING PROPERTY LINE
  - - - EASEMENT
  - - - EXISTING TOPOGRAPHIC CONTOUR
  - - - STONEWALL
  - - - TREELINE / BRUSHLINE
  - - - WETLAND BUFFER
  - - - WATERSHED PROTECTION DISTRICT
  - - - EDGE OF WETLANDS
  - WLF → WETLAND FLAG
  - X X X FENCELINE
  - S S S EXISTING SEWER LINE
  - D D D EXISTING DRAIN LINE
  - W W W EXISTING WATER LINE
  - U/G U/G EXISTING UNDERGROUND ELEC / TELE
  - EXISTING CATCH BASIN
  - EXISTING UTILITY POLE
  - EXISTING WELL
  - EXISTING SEWER MANHOLE
  - EXISTING REBAR
  - EXISTING DRILLHOLE



MATCHLINE SHEET EX-2

MATCHLINE SHEET EX-2

NOV 12 2009

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 DATED DEC 30 2009 FILE # 09-0247  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

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

DATE: 11/26/09  
 BY: *[Signature]*  
 REGISTERED PROFESSIONAL LAND SURVEYOR

**ROGER R. LIZOTTE**  
 No. 1828  
 PROFESSIONAL LAND SURVEYOR

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: —  
 Scale: 1"=30' Date: OCT09

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

Client/Owner:  
 PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

Issued for:  
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Drawing Title:  
**EXISTING CONDITIONS SHEET 3**

Drawing Number:  
**EX-3**

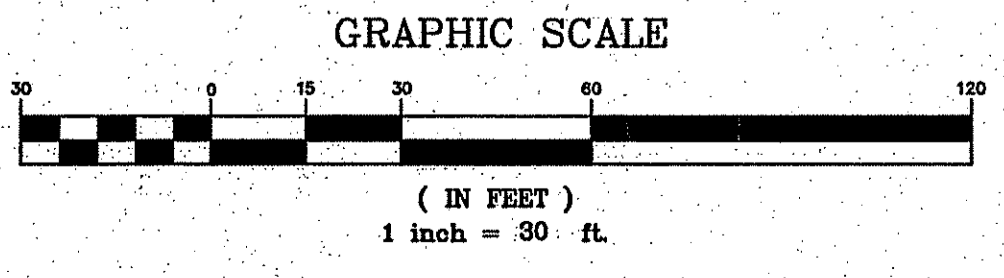
Sheet 6 of 22

Project Number:  
 06088.0

Survey Index:  
 13 - 126 - 218

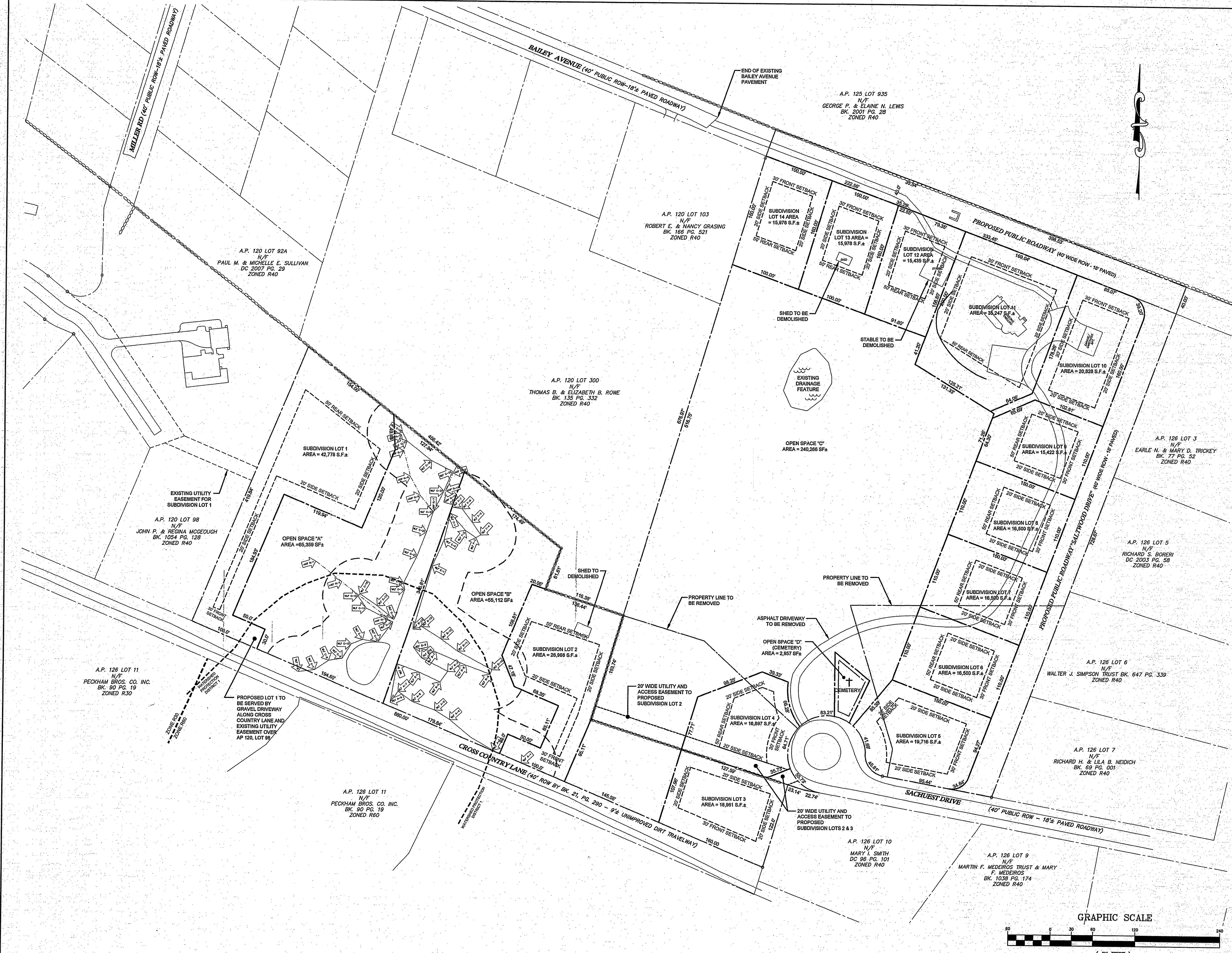
GRAWN E. SMALL  
*[Signature]*  
 No. 8550  
 11-12-09  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

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**LEGEND:**

- PROPERTY LINE
- - - ABUTTING PROPERTY LINE
- STONEWALL
- WETLAND BUFFER
- WATERSHED PROTECTION DISTRICT
- EDGE OF WETLANDS
- W W W W WETLAND FLAG
- EXISTING REBAR
- EXISTING DRILLHOLE
- - - SUBDIVISION LINE
- - - EASEMENT LINE
- - - BUILDING SETBACK LINE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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DATED DEC 30 2009 FILE # 09-0289  
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*W. Joseph Casey*

No.	Revision	Date	App.

Designed by: JJR Drawn by: JJR Checked by: —  
Scale: 1"=60' Date: OCT09

**SALTWOOD FARM**  
A.P. 126 LOTS 4, 217, 218 & 219  
SACHUEST DRIVE, BAILEY AVENUE  
AND CROSS COUNTRY LANE  
MIDDLETOWN, RI 02842

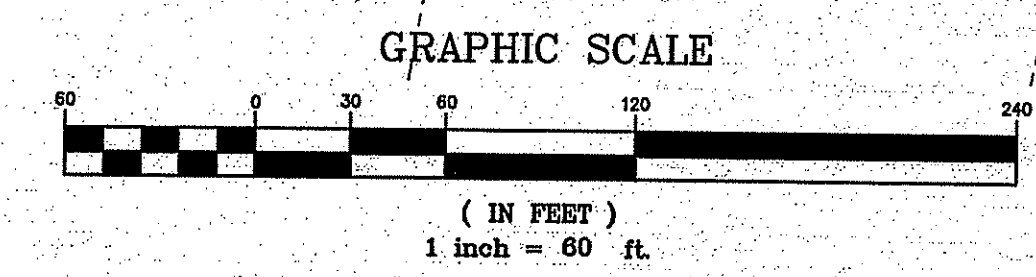
Client/Owner:  
**PETER GALLIPEAU**  
P.O. BOX 4286  
MIDDLETOWN RI

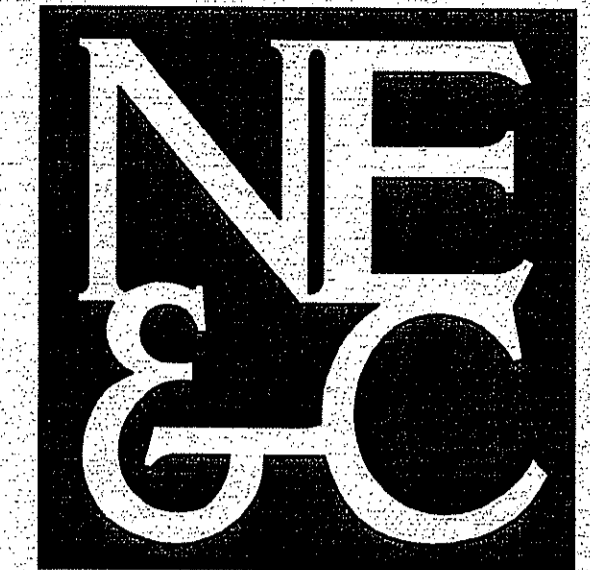
Issued for:  
**PERMITTING**

Drawing Title:  
**PROPOSED  
SUBDIVISION PLAN**

	Drawing Number:	<b>SD-1</b>
	Sheet	<b>7 of 22</b>
	Project Number:	<b>06088.0</b>
	Survey Index:	<b>13 - 126 - 218</b>

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LEGEND:

---	PROPERTY LINE
- - - -	ABUTTING PROPERTY LINE
.....	EXISTING TOPOGRAPHIC CONTOUR
-----	STONEMULL
~~~~~	TREELINE / BRUSHLINE
~~~~~	WETLAND BUFFER
-----	WATERSHED PROTECTION DISTRICT
-----	EDGE OF WETLANDS
-----	WETLAND FLAG
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
U/G	EXISTING UNDERGROUND ELEC./TELE
□	EXISTING CATCH BASIN
○	EXISTING UTILITY POLE
○	EXISTING WELL
○	EXISTING SEWER MANHOLE
○	EXISTING REBAR
○	EXISTING DRILLHOLE
---	SUBDIVISION LINE
---	EDGE OF ROADWAY
---	CAPE COD BERM
W-W-W	PROPOSED WATER SERVICE
W-W-W	PROPOSED 12" WATER MAIN
SFM-SFM	PROPOSED SEWER FORCE MAIN/SERVICE
S-S	PROPOSED GRAVITY SEWER MAIN/SERVICE
E-E	PROPOSED ELEC./TELECOM SERVICES
○	PROPOSED SEWER MANHOLE
○	PROPOSED FIRE HYDRANT
□	PROPOSED ELECTRICAL BOX
□	PROPOSED WATER VALVE
○	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
D	PROPOSED DRAIN LINE
□	PROPOSED CATCH BASIN

No.	Revision	Date	App.

Designed By: JJR Drawn By: JJR Checked By: ---  
Scale: 1"=30' Date: OCT09

Project Title:  
**SALTWOOD FARM**  
A.P. 126 LOTS 4, 217, 218 & 219  
SACHUEST DRIVE, BAILEY AVENUE  
AND CROSS COUNTRY LANE  
MIDDLETOWN, RI 02842

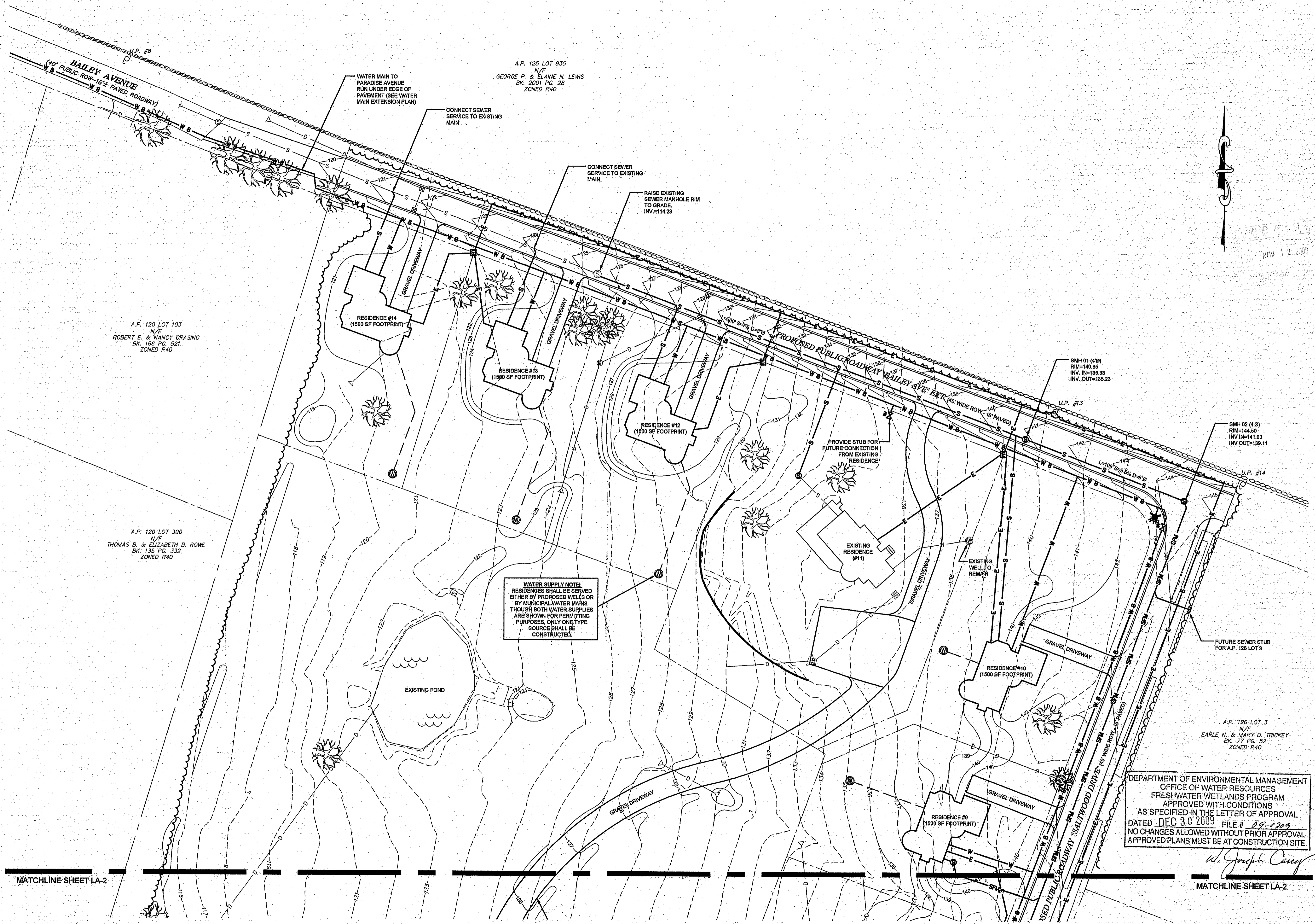
Client/Owner:  
PETER GALLIPEAU  
P.O. BOX 4286  
MIDDLETOWN RI

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Drawing Title:  
**LAYOUT  
AND UTILITIES  
SHEET 1**

	Drawing Number: <b>LA-1</b>
	Sheet <b>8</b> of <b>22</b>
	Project Number: <b>06088.0</b>
	Survey Index: <b>13 - 126 - 218</b>

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A.P. 120 LOT 103  
N/F  
ROBERT E. & NANCY GRASING  
BK. 186 PG. 521  
ZONED R40

A.P. 120 LOT 300  
N/F  
THOMAS B. & ELIZABETH B. ROWE  
BK. 135 PG. 332  
ZONED R40

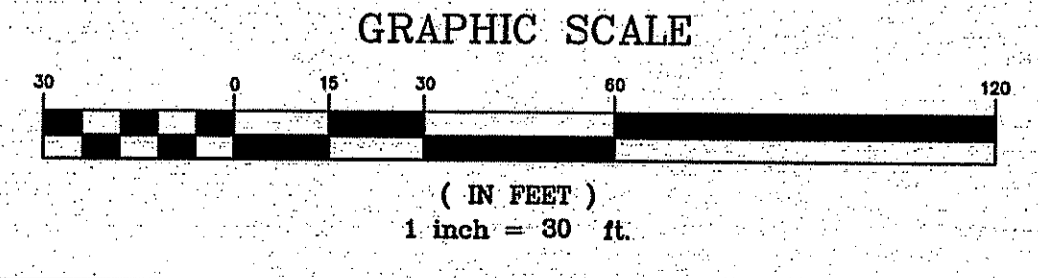
A.P. 125 LOT 935  
N/F  
GEORGE P. & ELAINE N. LEWIS  
BK. 2001 PG. 28  
ZONED R40

A.P. 126 LOT 3  
N/F  
EARLE N. & MARY D. TRICKEY  
BK. 77 PG. 52  
ZONED R40

**WATER SUPPLY NOTE:**  
RESIDENCES SHALL BE SERVED EITHER BY PROPOSED WELLS OR BY MUNICIPAL WATER MAINS. THOUGH BOTH WATER SUPPLIES ARE SHOWN FOR PERMITTING PURPOSES, ONLY ONE TYPE SOURCE SHALL BE CONSTRUCTED.

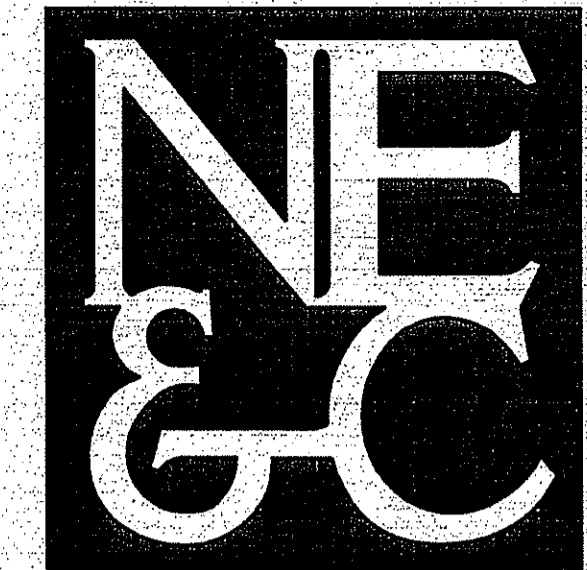
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009 FILE # 08-0209  
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*W. Joseph Carey*



MATCHLINE SHEET LA-2

MATCHLINE SHEET LA-2



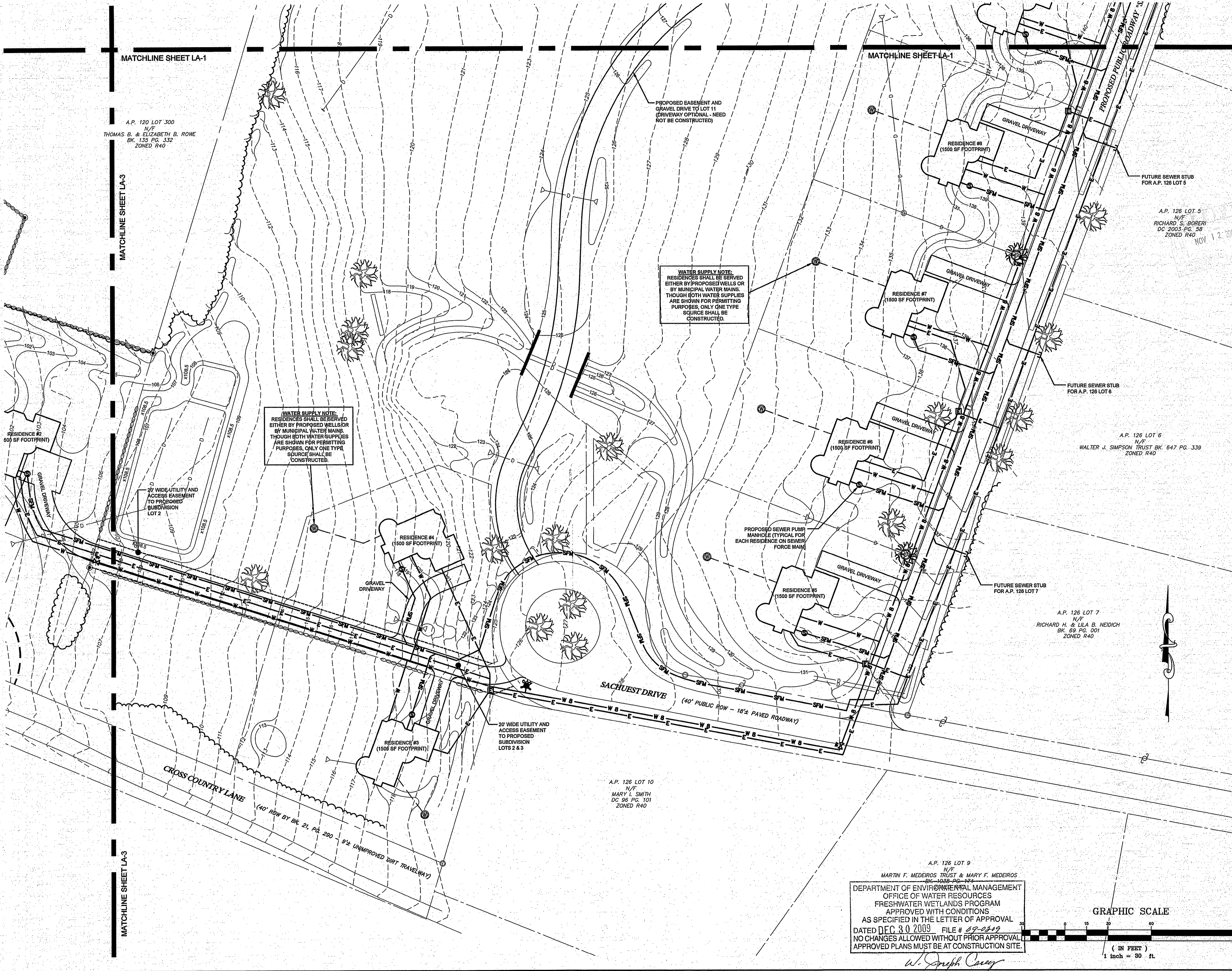
- SITE/CIVIL
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LEGEND:

---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
---	EXISTING SEWER LINE
---	EXISTING DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELEC / TELE
---	EXISTING CATCH BASIN
---	EXISTING UTILITY POLE
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EXISTING REBAR
---	EXISTING DRILLHOLE
---	SUBDIVISION LINE
---	EDGE OF ROADWAY
---	CAPE COD BERM
---	PROPOSED WATER SERVICE
---	PROPOSED 8" WATER MAIN
---	PROPOSED 12" WATER MAIN
---	PROPOSED SEWER FORCE MAIN/SERVICE
---	PROPOSED GRAVITY SEWER MAIN/SERVICE
---	PROPOSED ELECT/TELECA SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PROPOSED CATCH BASIN



MATCHLINE SHEET LA-1

MATCHLINE SHEET LA-1

A.P. 120 LOT 300  
 N/F  
 THOMAS B. & ELIZABETH B. ROWE  
 BK. 135 PG. 332  
 ZONED R40

A.P. 126 LOT 5  
 N/F  
 RICHARD S. BORERI  
 DC 2003 PG. 58  
 ZONED R40  
 NOV 12 2009

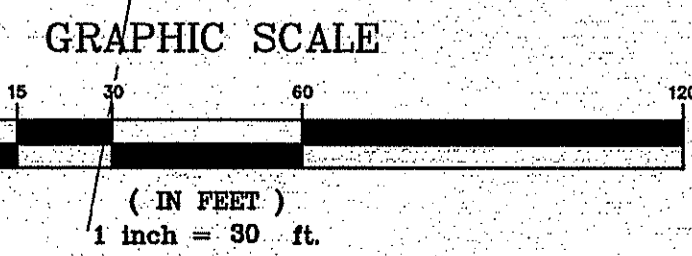
A.P. 126 LOT 6  
 N/F  
 WALTER J. SIMPSON TRUST BK. 647 PG. 339  
 ZONED R40

A.P. 126 LOT 7  
 N/F  
 RICHARD H. & LILA B. NEIDICH  
 BK. 69 PG. 001  
 ZONED R40

A.P. 126 LOT 10  
 N/F  
 MARY L. SMITH  
 DC 96 PG. 101  
 ZONED R40

A.P. 126 LOT 9  
 N/F  
 MARTIN F. MEDEIROS TRUST & MARY F. MEDEIROS  
 BK. 1039 PG. 171

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 FRESHWATER WETLANDS PROGRAM  
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 DATED DEC 30 2009 FILE # 09-0319  
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No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: ---  
 Scale: 1"=30' Date: OCT09  
 Project Title:

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

Client/Owner:  
 PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

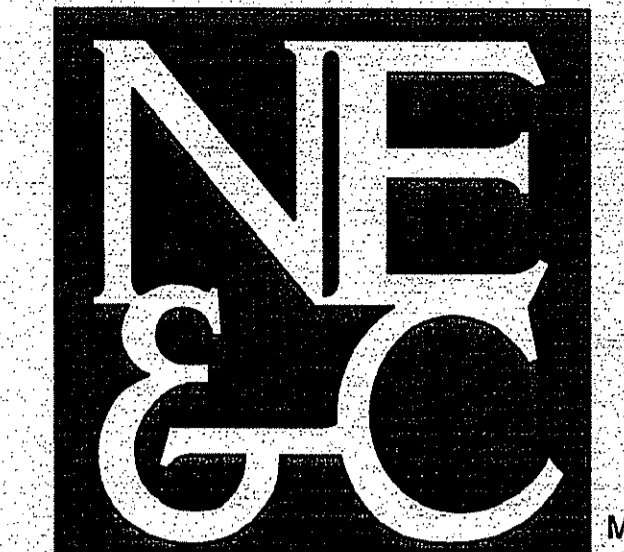
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Drawing Title:  
**LAYOUT  
 AND UTILITIES  
 SHEET 2**

Drawing Number: <b>LA-2</b>
Sheet <b>9</b> of <b>22</b>
Project Number: <b>06088.0</b>
Survey Index: <b>13-126-218</b>

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*W. Joseph Casey*



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- STRUCTURAL
- MATERIALS TESTING

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- LEGEND:**
- PROPERTY LINE
  - ABUTTING PROPERTY LINE
  - EXISTING TOPOGRAPHIC CONTOUR
  - STONEWALL
  - TREELINE / BRUSHLINE
  - WETLAND BUFFER
  - WATERSHED PROTECTION DISTRICT
  - EDGE OF WETLANDS
  - WETLAND FLAG
  - EXISTING SEWER LINE
  - EXISTING DRAIN LINE
  - EXISTING WATER LINE
  - EXISTING UNDERGROUND ELEC / TELE
  - EXISTING CATCH BASIN
  - EXISTING UTILITY POLE
  - EXISTING WELL
  - EXISTING SEWER MANHOLE
  - EXISTING REBAR
  - EXISTING DRILLHOLE
  - SUBDIVISION LINE
  - EDGE OF ROADWAY
  - CAPE COD BERM
  - PROPOSED WATER SERVICE
  - PROPOSED 8" WATER MAIN
  - PROPOSED 12" WATER MAIN
  - PROPOSED SEWER FORCE MAIN/SERVICE
  - PROPOSED GRAVITY SEWER MAIN/SERVICE
  - PROPOSED ELEC/TELE/CA SERVICES
  - PROPOSED SEWER MANHOLE
  - PROPOSED FIRE HYDRANT
  - PROPOSED ELECTRICAL BOX
  - PROPOSED WATER VALVE
  - PROPOSED WELL
  - PROPOSED TOPOGRAPHIC CONTOUR
  - PROPOSED DRAIN LINE
  - PROPOSED CATCH BASIN

**WATER SUPPLY NOTE:**  
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
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 DATED DEC 30 2008 FILE # 08-125  
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: ---  
 Scale: 1"=30' Date: OCT09  
 Project Title:

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

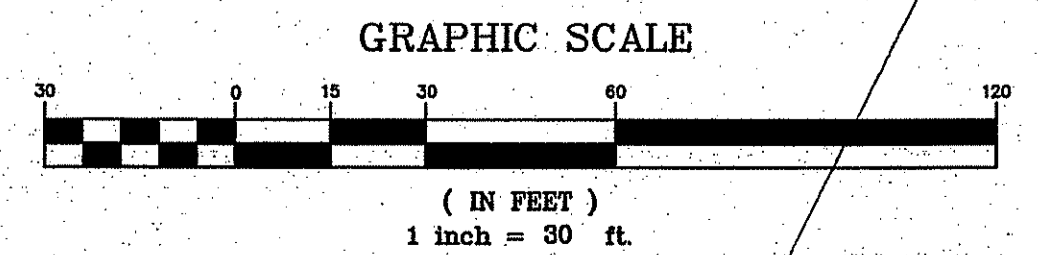
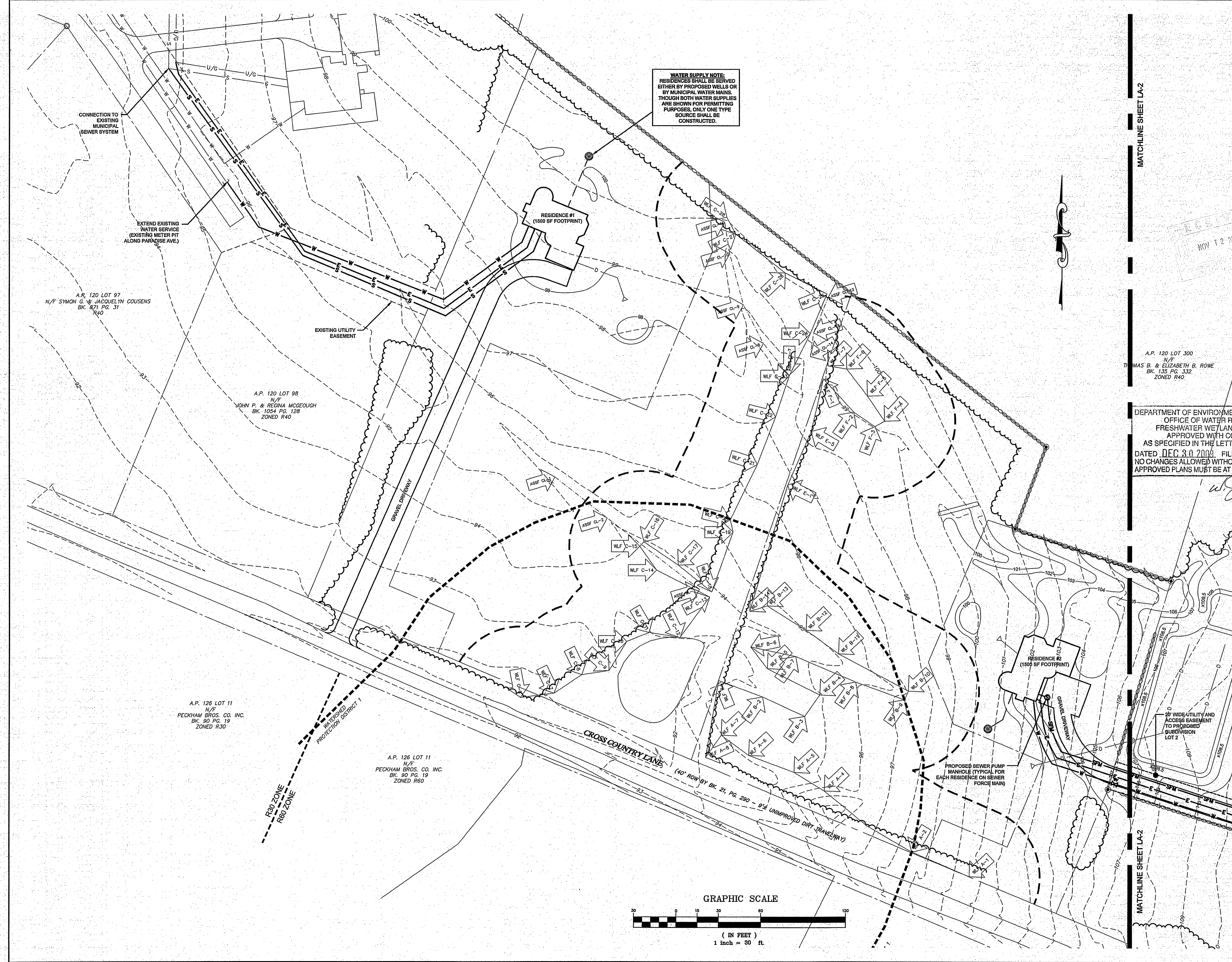
Client/Owner:  
**PETER GALLIPEAU**  
 P.O. BOX 4286  
 MIDDLETOWN RI

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**LAYOUT AND UTILITIES SHEET 3**

	Drawing Number:	<b>LA-3</b>
	Sheet	10 of 22
	Project Number:	<b>06088.0</b>
	Survey Index:	<b>13-126-218</b>

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MATCHLINE SHEET LA-2

MATCHLINE SHEET LA-2

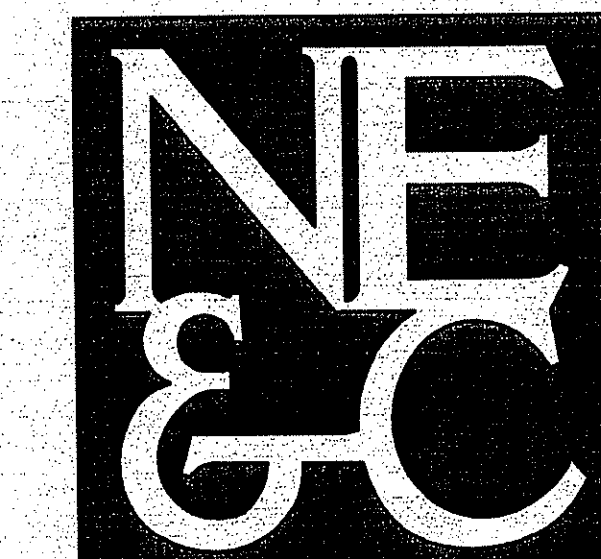
A.P. 120 LOT 97  
 N/F SYMON G. & JACQUELYN COUSINS  
 BK. 871 PG. 31  
 ZONED R40

A.P. 120 LOT 98  
 N/F JOHN P. & REGINA MCGEOUGH  
 BK. 1054 PG. 128  
 ZONED R40

A.P. 126 LOT 11  
 N/F PECKHAM BROS. CO. INC.  
 BK. 90 PG. 19  
 ZONED R30

A.P. 126 LOT 11  
 N/F PECKHAM BROS. CO. INC.  
 BK. 90 PG. 19  
 ZONED R60

A.P. 120 LOT 300  
 N/F MAS B. & ELIZABETH B. ROWE  
 BK. 135 PG. 332  
 ZONED R40



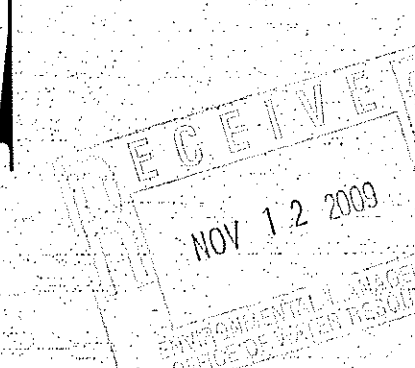
SITE/CIVIL  
LAND PLANNING  
WATERFRONT  
SURVEYING  
GEOTECHNICAL  
ENVIRONMENTAL  
TRANSPORTATION  
STRUCTURAL  
MATERIALS TESTING

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55 JOHN CLARKE ROAD MIDDLETOWN, RHODE ISLAND 02842  
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LEGEND:

---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
---	EXISTING SEWER LINE
---	EXISTING DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELEC. / TELE
---	EXISTING CATCH BASIN
---	EXISTING UTILITY POLE
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EXISTING REBAR
---	EXISTING DRILLHOLE
---	SUBDIVISION LINE
---	PROPOSED WATER SERVICE
---	PROPOSED 8" WATER MAIN
---	PROPOSED 12" WATER MAIN
---	PROPOSED SEWER FORCE MAIN/SERVICE
---	PROPOSED GRAVITY SEWER MAIN/SERVICE
---	PROPOSED ELECT/TELECA SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PATH OF SWALE
---	PROPOSED CATCH BASIN
---	PROPOSED DRAIN MANHOLE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009 FILE # 09-1209  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: ---  
Scale: 1"=30' Date: OCT09

**SALTWOOD FARM**  
A.P. 126 LOTS 4, 217, 218 & 219  
SACHUEST DRIVE, BAILEY AVENUE  
AND CROSS COUNTRY LANE  
MIDDLETOWN, RI 02842

Client/Owner:  
**PETER GALLIPEAU**  
P.O. BOX 4286  
MIDDLETOWN RI

Issued for:  
**PERMITTING**

Drawing Title:  
**GRADING  
AND DRAINAGE  
SHEET 1**

Drawing Number:  
**GR-1**

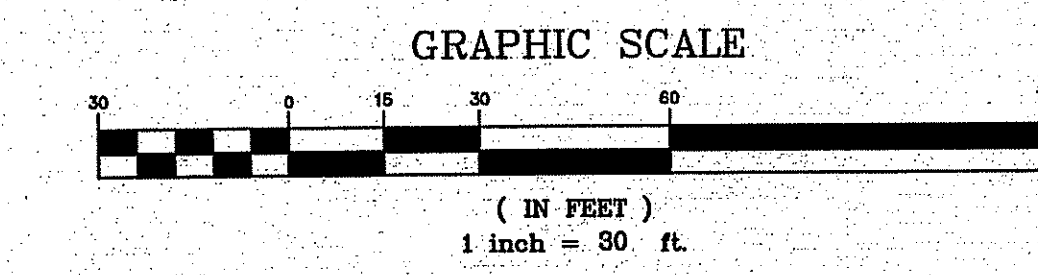
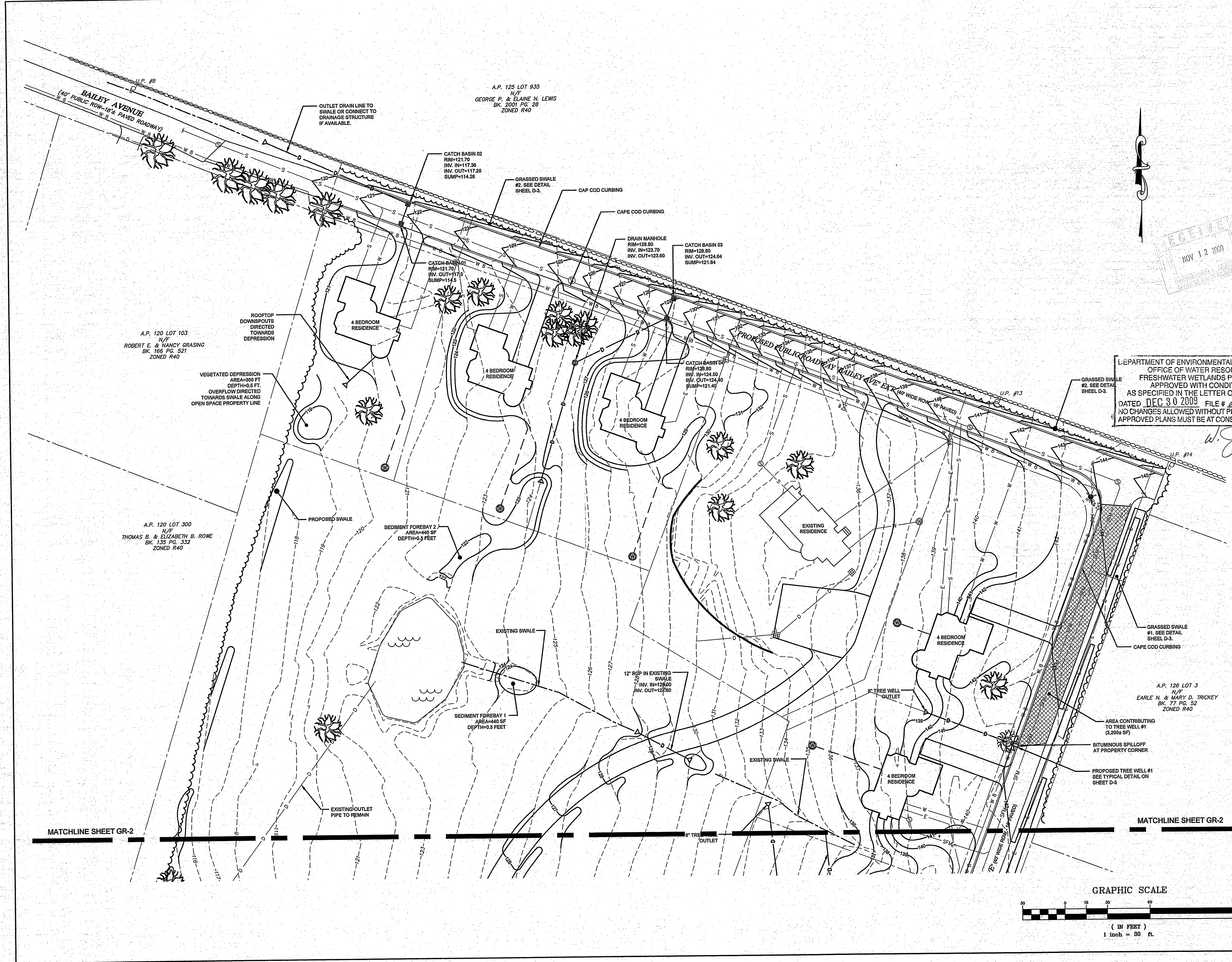
Sheet **11** of **22**

Project Number:  
**06088.0**

Survey Index:  
**13 - 126 - 218**

Professional Engineer Seal for Brian E. Small, No. 8550, Registered Professional Engineer Civil, dated 11-12-09.

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LEGEND:

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXISTING TOPOGRAPHIC CONTOUR
	STONE WALL
	TREELINE / BRUSHLINE
	WETLAND BUFFER
	WATERSHED PROTECTION DISTRICT EDGE OF WETLANDS
	WETLAND FLAG
	EXISTING SEWER LINE
	EXISTING DRAIN LINE
	EXISTING WATER LINE
	EXISTING UNDERGROUND ELEC / TELE
	EXISTING CATCH BASIN
	EXISTING UTILITY POLE
	EXISTING WELL
	EXISTING SEWER MANHOLE
	EXISTING REBAR
	EXISTING DRILLHOLE
	SUBDIVISION LINE
	PROPOSED WATER SERVICE
	PROPOSED 8" WATER MAIN
	PROPOSED 12" WATER MAIN
	PROPOSED SEWER FORCE MAIN/SERVICE
	PROPOSED GRAVITY SEWER MAIN/SERVICE
	PROPOSED ELECTRIC/ELECTRICAL SERVICES
	PROPOSED SEWER MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED ELECTRICAL BOX
	PROPOSED WATER VALVE
	PROPOSED WELL
	PROPOSED TOPOGRAPHIC CONTOUR
	PROPOSED DRAIN LINE
	PATH OF SWALE
	PROPOSED CATCH BASIN
	PROPOSED DRAIN MANHOLE

No.	Revision	Date	App.

Designed by: **JJR** Drawn by: **JJR** Checked by: **---**  
Scale: 1"=30' Date: **OCT09**

Project Title:  
**SALTWOOD FARM**  
A.P. 126 LOTS 4, 217, 218 & 219  
SACHUEST DRIVE, BAILEY AVENUE  
AND CROSS COUNTRY LANE  
MIDDLETOWN, RI 02842

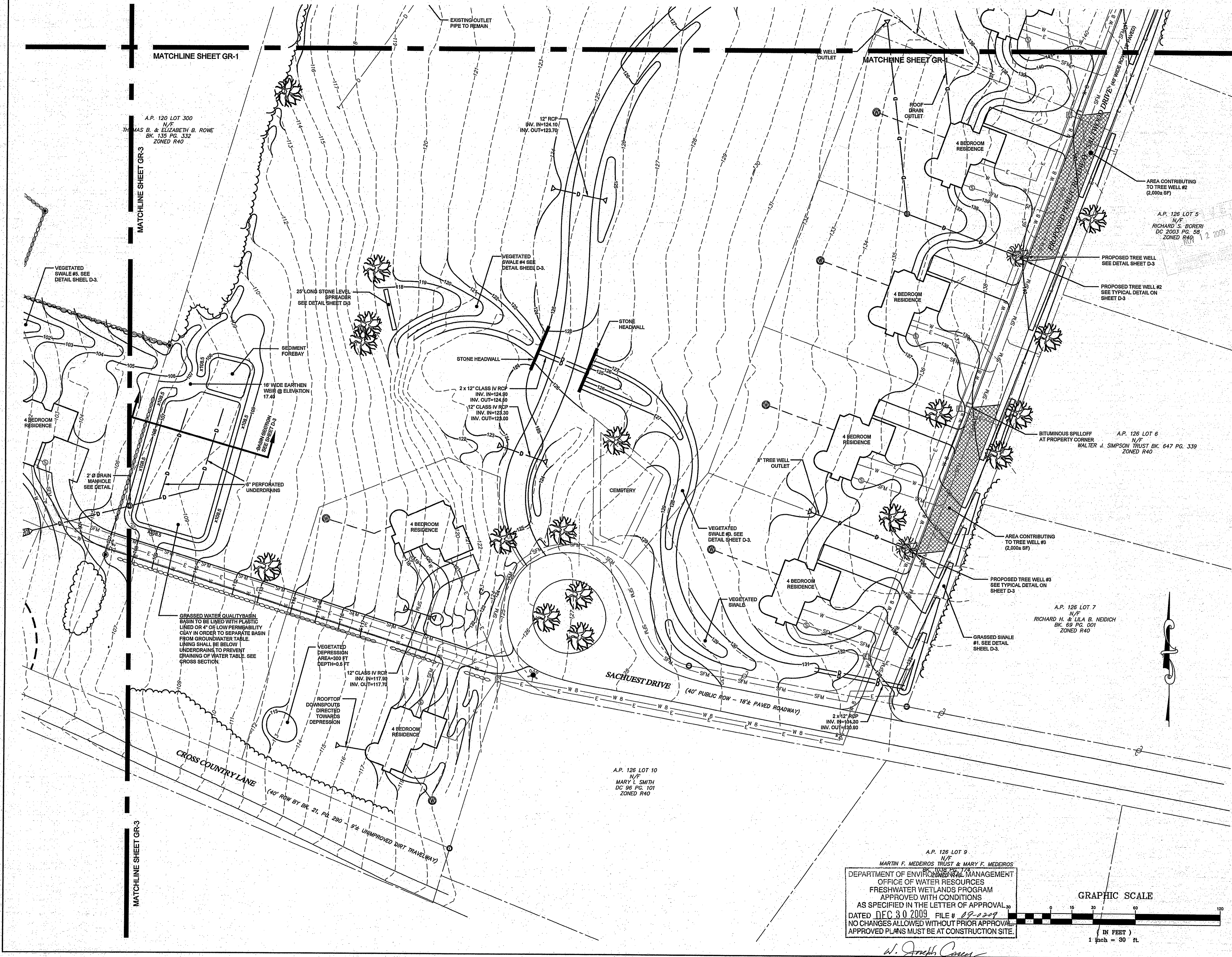
Client/Owner:  
**PETER GALLIPEAU**  
P.O. BOX 4286  
MIDDLETOWN RI

Issued for:  
**PERMITTING**

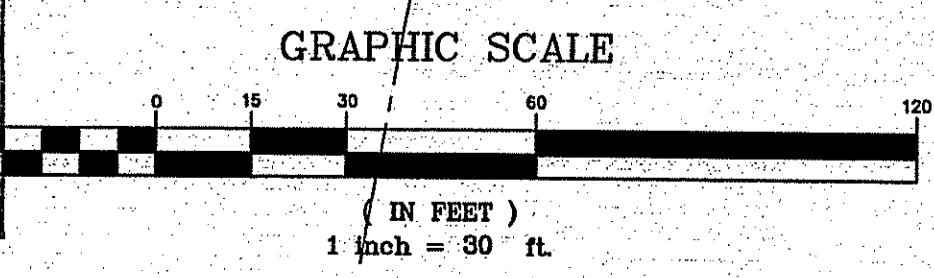
Drawing Title:  
**GRADING  
AND DRAINAGE  
SHEET 2**

	Drawing Number: <b>GR-2</b>
	Sheet <b>12</b> of <b>22</b>
	Project Number: <b>06088.0</b>
	Survey Index: <b>13 - 126 - 218</b>

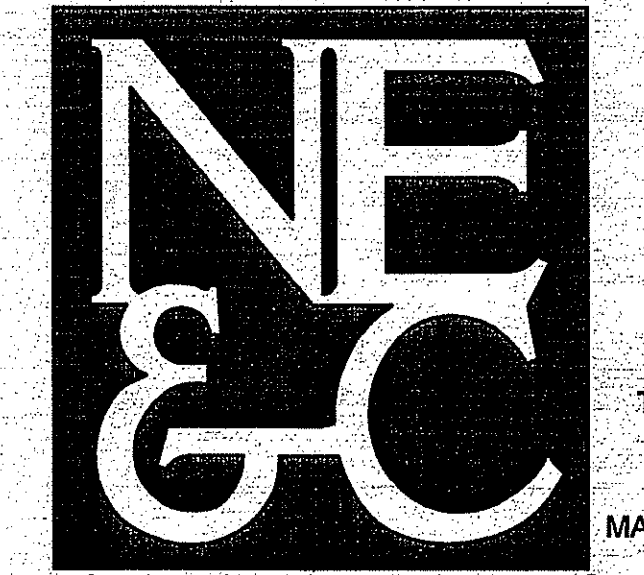
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A.P. 126 LOT 9  
MARTIN F. MEDEIROS TRUST & MARY F. MEDEIROS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED **DEC 30 2009** FILE # **09-0209**  
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*W. Joseph Coney*



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LEGEND:

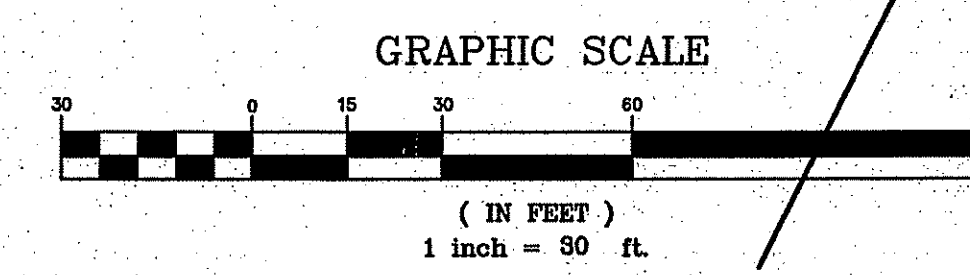
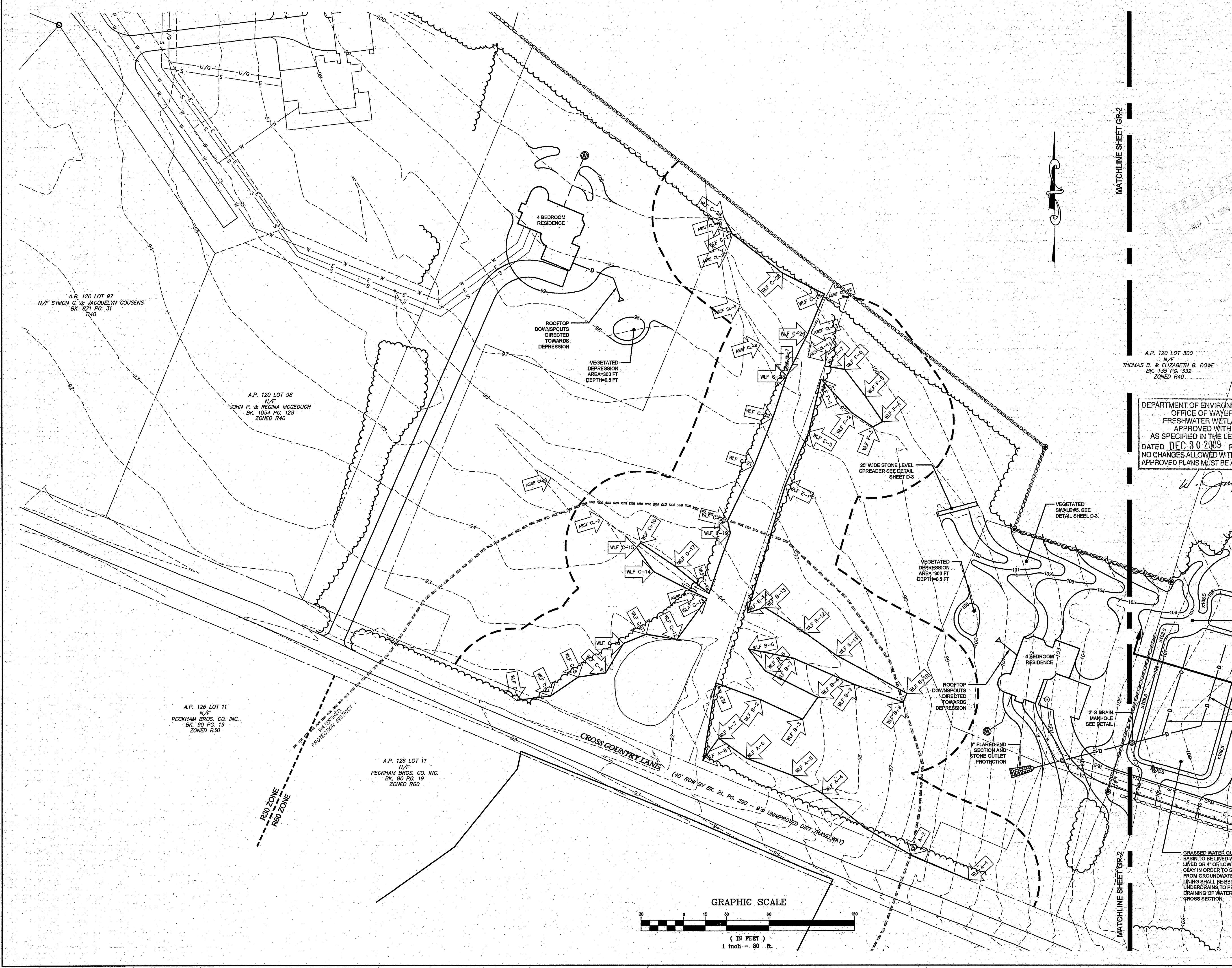
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---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
U/G	EXISTING UNDERGROUND ELEC / TELE
---	EXISTING CATCH BASIN
---	EXISTING UTILITY POLE
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EXISTING REBAR
---	EXISTING DRILLHOLE
---	SUBDIVISION LINE
W	PROPOSED WATER SERVICE
W 8	PROPOSED 8" WATER MAIN
W 12	PROPOSED 12" WATER MAIN
SFM	PROPOSED SEWER FORCE MAIN/SERVICE
S	PROPOSED GRAVITY SEWER MAIN/SERVICE
E	PROPOSED ELECT/TELECA SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PATH OF SWALE
---	PROPOSED CATCH BASIN
---	PROPOSED DRAIN MANHOLE

A.P. 120 LOT 300  
N/F  
THOMAS B. & ELIZABETH B. ROWE  
BK. 135 PG. 332  
ZONED R40

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009 FILE # 09-0514  
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*W. Joseph Carey*

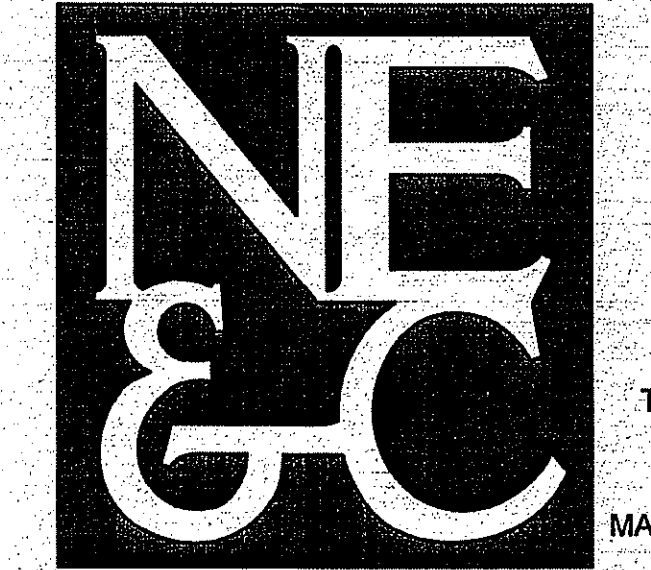
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:		Date:	OCT09
Scale:	1"=30'	Date:	OCT09
Project Title:	<b>SALTWOOD FARM</b> A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842		
Client/Owner:	PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI		
Issued for:	PERMITTING		
Drawing Title:	<b>GRADING AND DRAINAGE SHEET 3</b>		
Drawing Number:	GR-3		
Sheet	13 of 22		
Project Number:	06088.0		
Survey Index:	13 - 126 - 218		
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GRASSED WATER QUALITY BASIN TO BE LINED WITH 4" OR LOW P CLAY IN ORDER TO SE FROM GROUNDWATER LINDING SHALL BE BELC UNDERDRAINS TO PRE DRAINING OF WATER 1 CROSS SECTION

MATCHLINE SHEET GR-2

MATCHLINE SHEET GR-2



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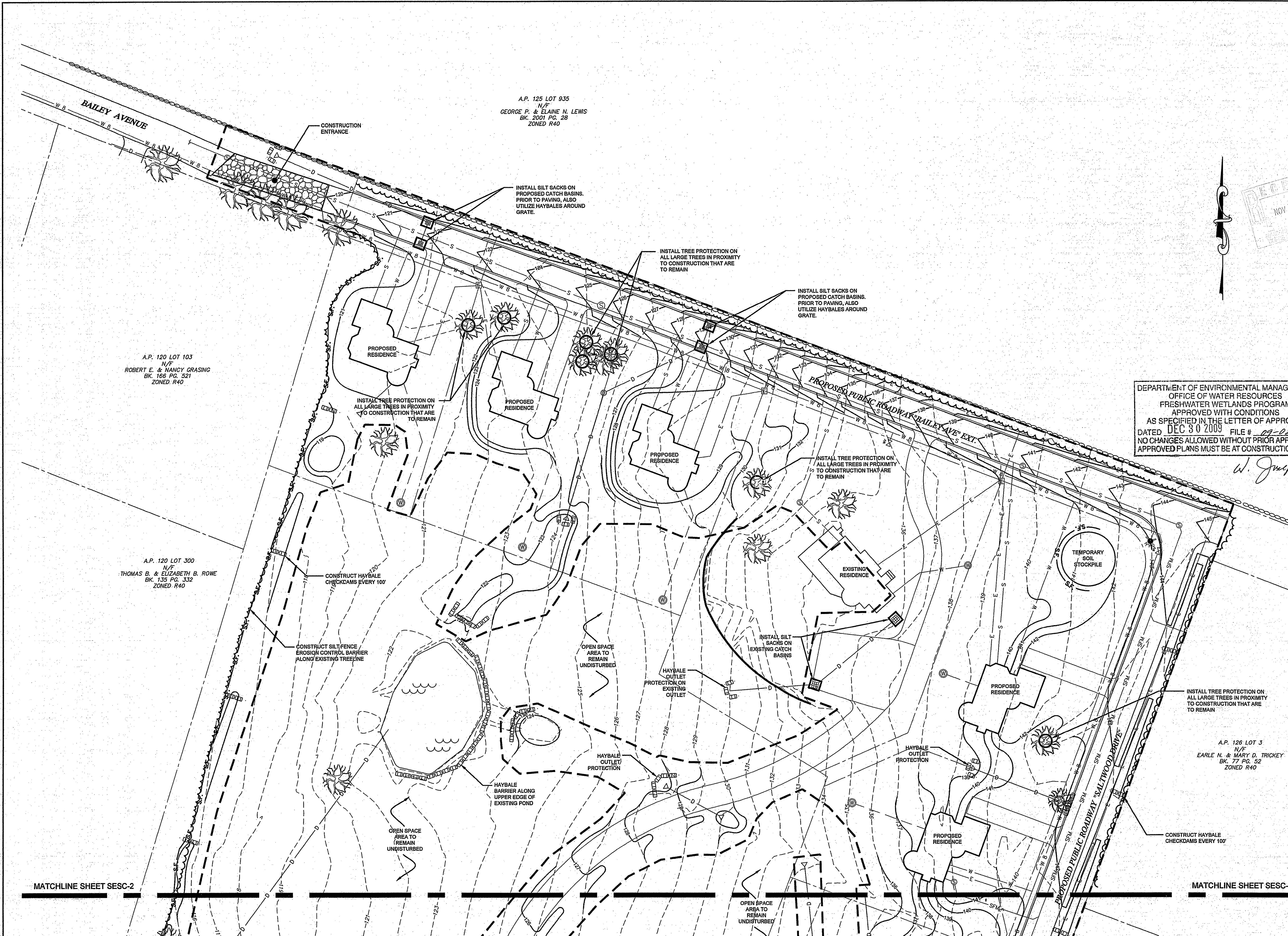
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842  
PHONE (401) 849-0810 FAX (401) 846-4169  
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LEGEND:

---	PROPERTY LINE
---	ADJUTING PROPERTY LINE
-140-	EXISTING TOPOGRAPHIC CONTOUR
---	STONEM WALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
W.F.C.	WETLAND FLAG
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
U/G	EXISTING UNDERGROUND ELEC / TELE
---	EXISTING CATCH BASIN
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EDGE OF ROADWAY
---	CAPE COD BERM
W	PROPOSED WATER SERVICE
W B	PROPOSED 8" WATER MAIN
W 12	PROPOSED 12" WATER MAIN
SFM	PROPOSED SEWER FORCE MAIN/SERVICE
S	PROPOSED GRAVITY SEWER MAIN/SERVICE
S	PROPOSED ELECTRIC/TELE SERVICES
E	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PROPOSED CATCH BASIN
---	PROPOSED DRAIN MANHOLE
S.F.	SILT FENCE/LIMIT OF DISTURBANCE
---	HAY BALES
---	LIMIT OF DISTURBANCE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009 FILE # 09-2209  
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*W. Joseph Casey*



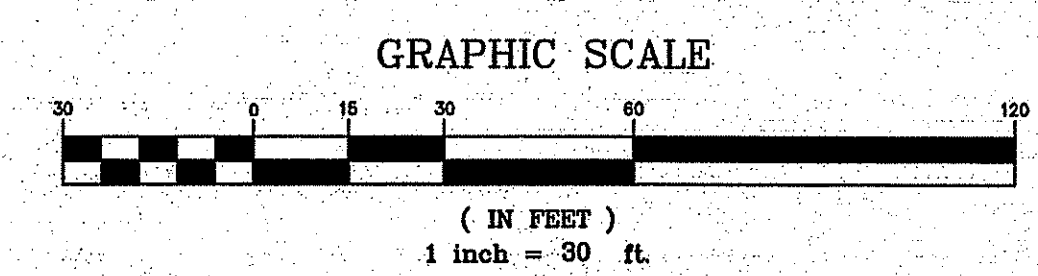
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N/F  
GEORGE P. & ELAINE N. LEWIS  
BK. 2001 PG. 28  
ZONED R40

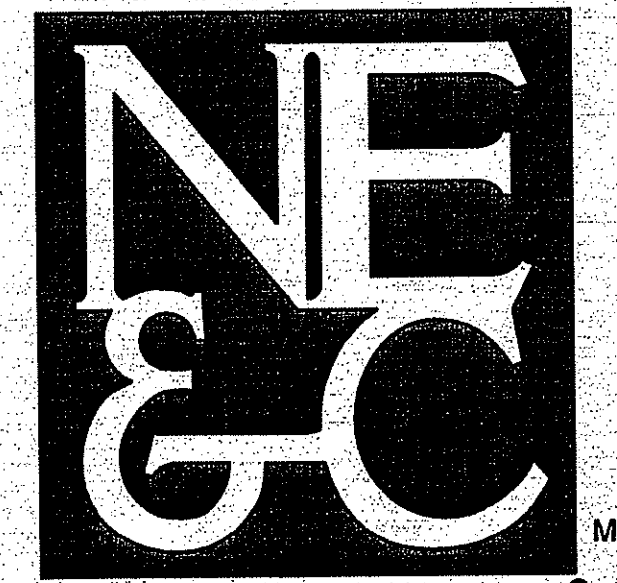
A.P. 120 LOT 103  
N/F  
ROBERT E. & NANCY GRASING  
BK. 168 PG. 521  
ZONED R40

A.P. 120 LOT 300  
N/F  
THOMAS B. & ELIZABETH B. ROWE  
BK. 135 PG. 332  
ZONED R40

A.P. 126 LOT 3  
N/F  
EARLE N. & MARY D. TRICKEY  
BK. 77 PG. 52  
ZONED R40

No.	Revision	Date	App.
Designed by:	JJR	Drawn by:	JJR
Checked by:		Scale:	1"=30'
Date:	OCT09	Project Title:	SALTWOOD FARM
Client/Owner:	PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI	Issued for:	PERMITTING
Drawing Title:	SOIL EROSION AND SEDIMENT CONTROL SHEET 1	Drawing Number:	SESC-1
Sheet	14 of 22	Project Number:	06088.0
Registered Professional Engineer	8550	Survey Index:	13 - 126 - 218
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LEGEND:

---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
U/G	EXISTING UNDERGROUND ELEC / TELE
---	EXISTING CATCH BASIN
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EDGE OF ROADWAY
---	CAPE COD BERM
W 8	PROPOSED 8" WATER MAIN
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SFM	PROPOSED SEWER FORCE MAIN/SERVICE
S	PROPOSED GRAVITY SEWER MAIN/SERVICE
E	PROPOSED ELECT/TELE SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PROPOSED CATCH BASIN
---	PROPOSED DRAIN MANHOLE
S.F.	SILT FENCE/LIMIT OF DISTURBANCE
---	HAY BALES
---	LIMIT OF DISTURBANCE

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: ---  
Scale: 1"=30' Date: OCT09  
Project Title:

**SALTWOOD FARM**  
A.P. 126 LOTS 4, 217, 218 & 219  
SACHUEST DRIVE, BAILEY AVENUE  
AND CROSS COUNTRY LANE  
MIDDLETOWN, RI 02842

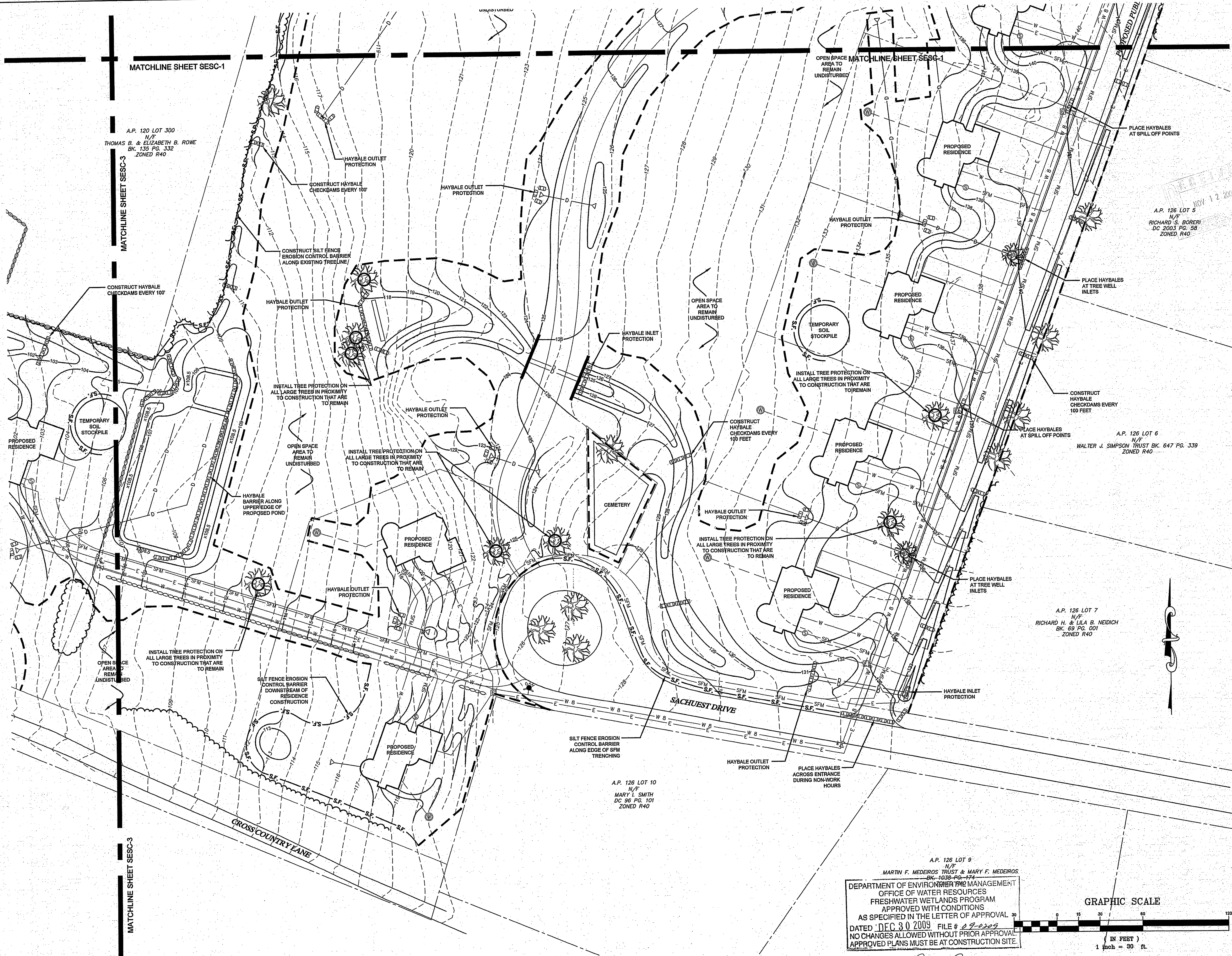
Client/Owner:  
**PETER GALLIPEAU**  
P.O. BOX 4286  
MIDDLETOWN RI

Issued for:  
**PERMITTING**

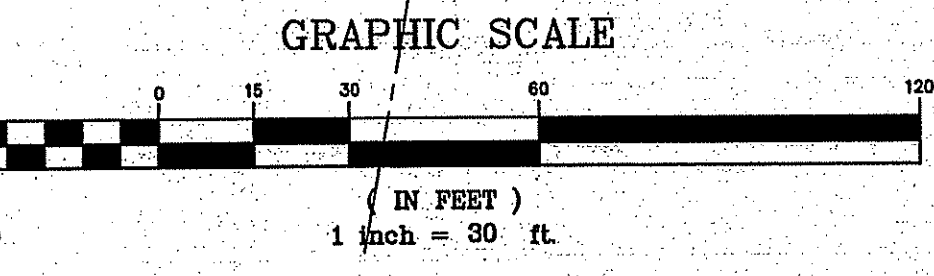
Drawing Title:  
**SOIL EROSION  
AND SEDIMENT  
CONTROL  
SHEET 2**

	Drawing Number:	<b>SESC-2</b>
	Sheet	15 of 22
	Project Number:	06088.0
	Survey Index:	13 - 126 - 218

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A.P. 126 LOT 9  
N/F  
MARTIN F. MEDEIROS TRUST & MARY F. MEDEIROS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED DEC 30 2009 FILE # 09-0209  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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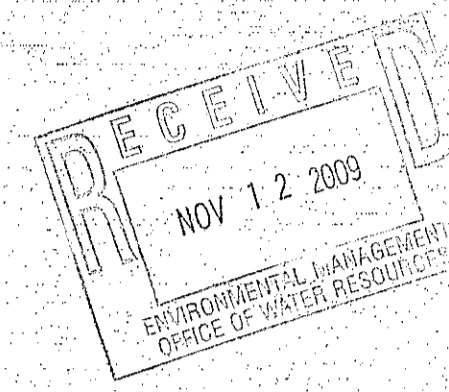


*W. Joseph Camp*



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

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LEGEND:

---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
S	EXISTING SEWER LINE
D	EXISTING DRAIN LINE
W	EXISTING WATER LINE
U/G	EXISTING UNDERGROUND ELEC / TELE
---	EXISTING CATCH BASIN
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EDGE OF ROADWAY
---	CAPE COD BERM
W 8	PROPOSED WATER SERVICE
W 12	PROPOSED 12" WATER MAIN
SFM	PROPOSED SEWER FORCE MAIN/SERVICE
S	PROPOSED GRAVITY SEWER MAIN/SERVICE
E	PROPOSED ELECTROLEICA SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PROPOSED CATCH BASIN
---	PROPOSED DRAIN MANHOLE
S.F.	SILT FENCE/LIMIT OF DISTURBANCE
---	HAY BALES
---	LIMIT OF DISTURBANCE

A.P. 120 LOT 300  
 N/F  
 THOMAS B. & ELIZABETH B. ROWE  
 BK. 135 PG. 332  
 ZONED R40

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 30 2009 FILE # 69-009  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*W. Joseph Casoy*

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: ---  
 Scale: 1"=30' Date: OCT09

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

Client/Owner:  
 PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

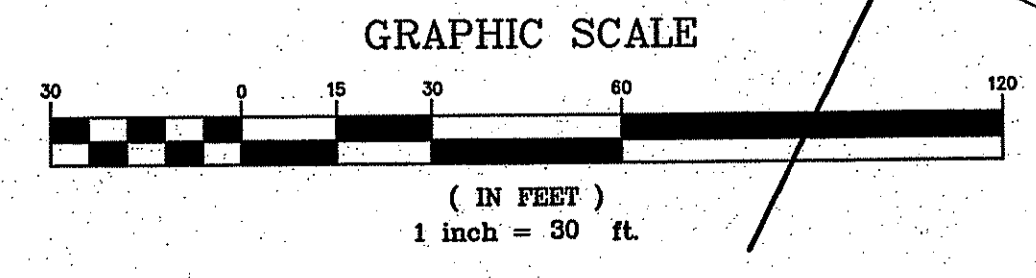
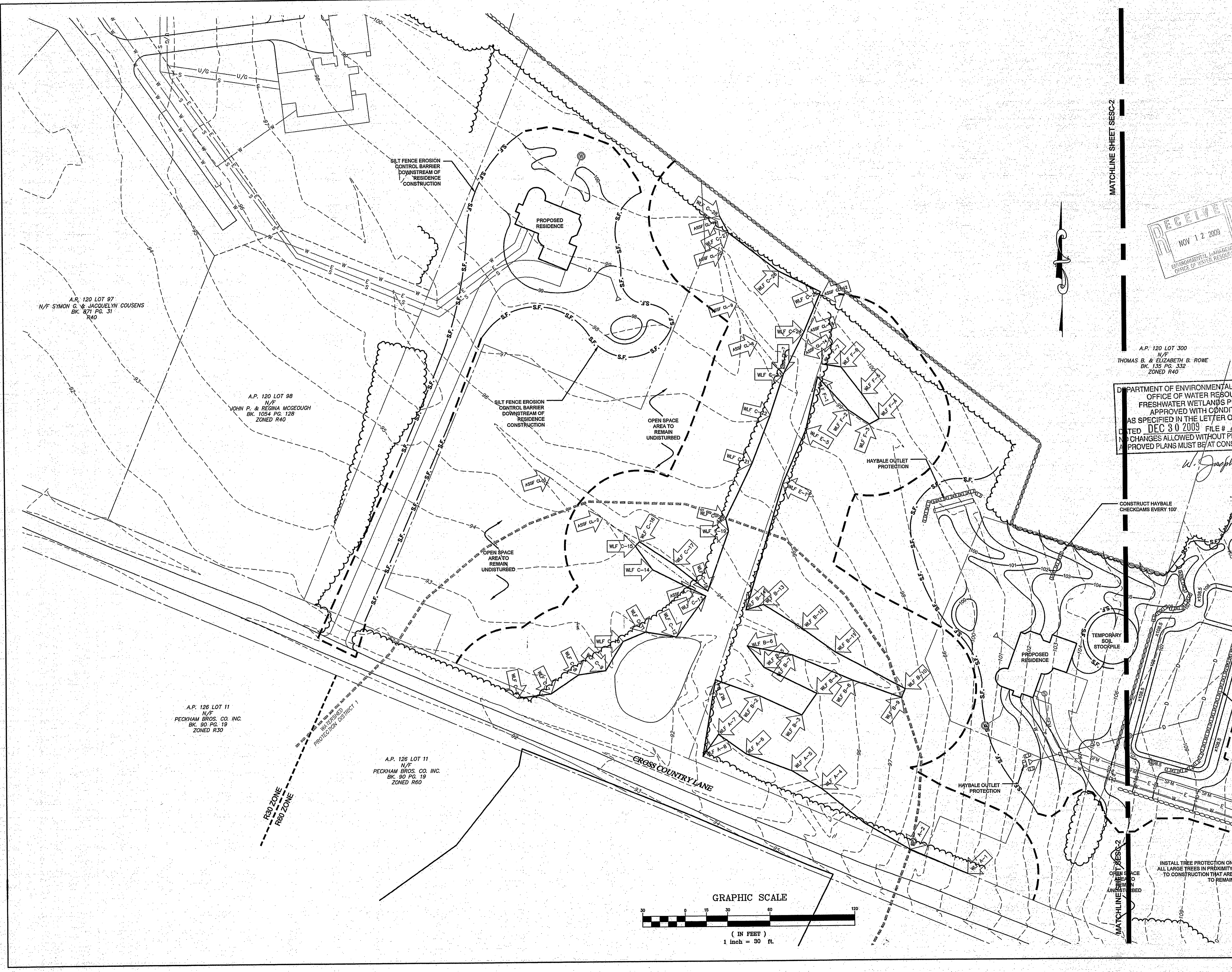
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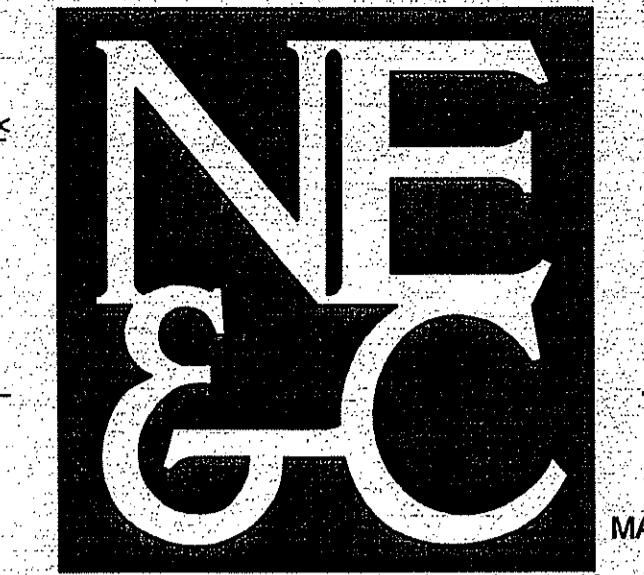
Drawing Title:  
**SOIL EROSION  
 AND SEDIMENT  
 CONTROL  
 SHEET 3**

Drawing Number: **SESC-3**  
 Sheet 16 of 22  
 Project Number: 06088.0  
 Survey Index: 13 - 126 - 218

SEALIN E. SMALL  
*Small*  
 No. 8550  
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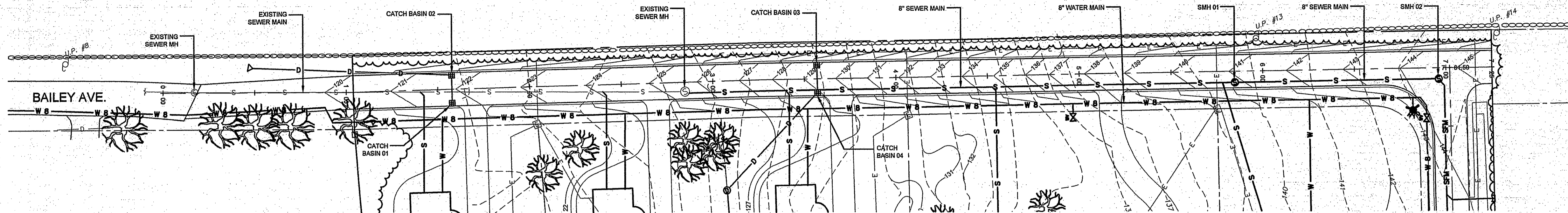




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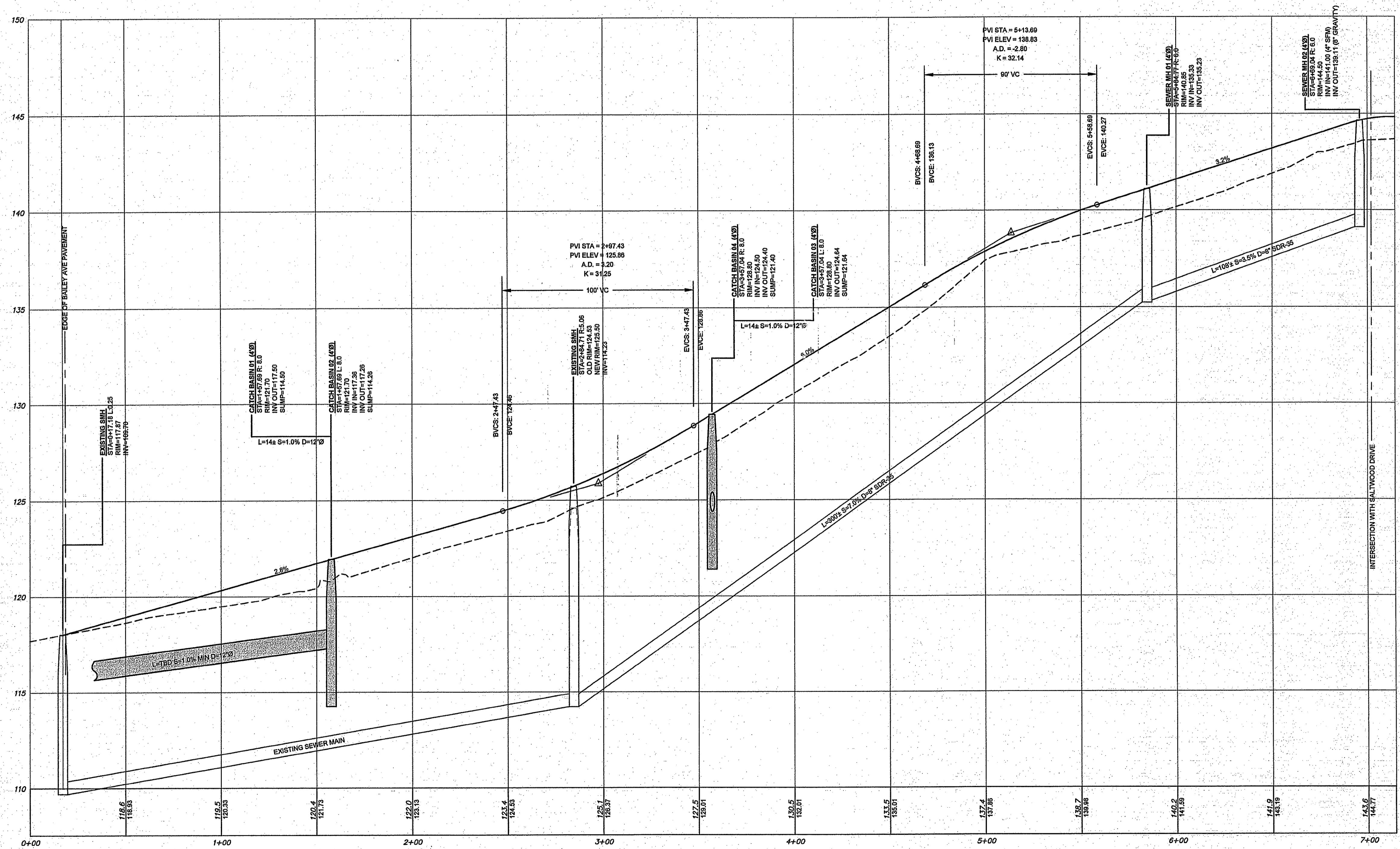
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- STRUCTURAL
- MATERIALS TESTING



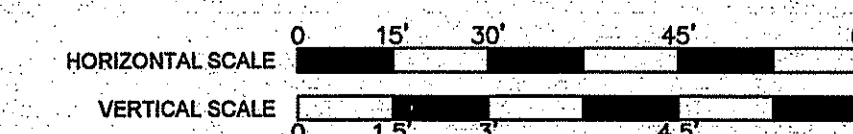
BAILEY AVE EXT: PLAN VIEW STA 0+00 -7+25 (END)

HORIZONTAL SCALE: 1"= 30'



BAILEY AVE EXT: PROFILE STA 0+00 - 7+25 (END)

HORIZONTAL SCALE: 1"= 30'  
 VERTICAL SCALE: 1"= 3'

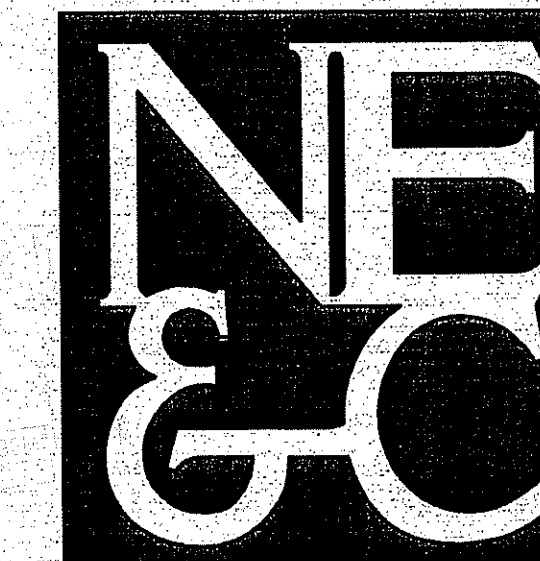


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 3 0 2009 FILE # 09-0009  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Carney*

No.	Revision	Date	App.
Designed By: JJR	Drawn by: JJR	Checked by:	
Scale: AS SHOWN	Date: OCT09	Project Title:	
<b>SALTWOOD FARM</b>			
A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842			
Client/Owner:			
PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI			
Issued for:			
PERMITTING			
Drawing Title:			
<b>ROAD PROFILES</b>			
Drawing Number:			
<b>P-1</b>			
Sheet 17 of 22			
Project Number:			
<b>06088.0</b>			
Survey Index:			
<b>13 - 126 - 218</b>			
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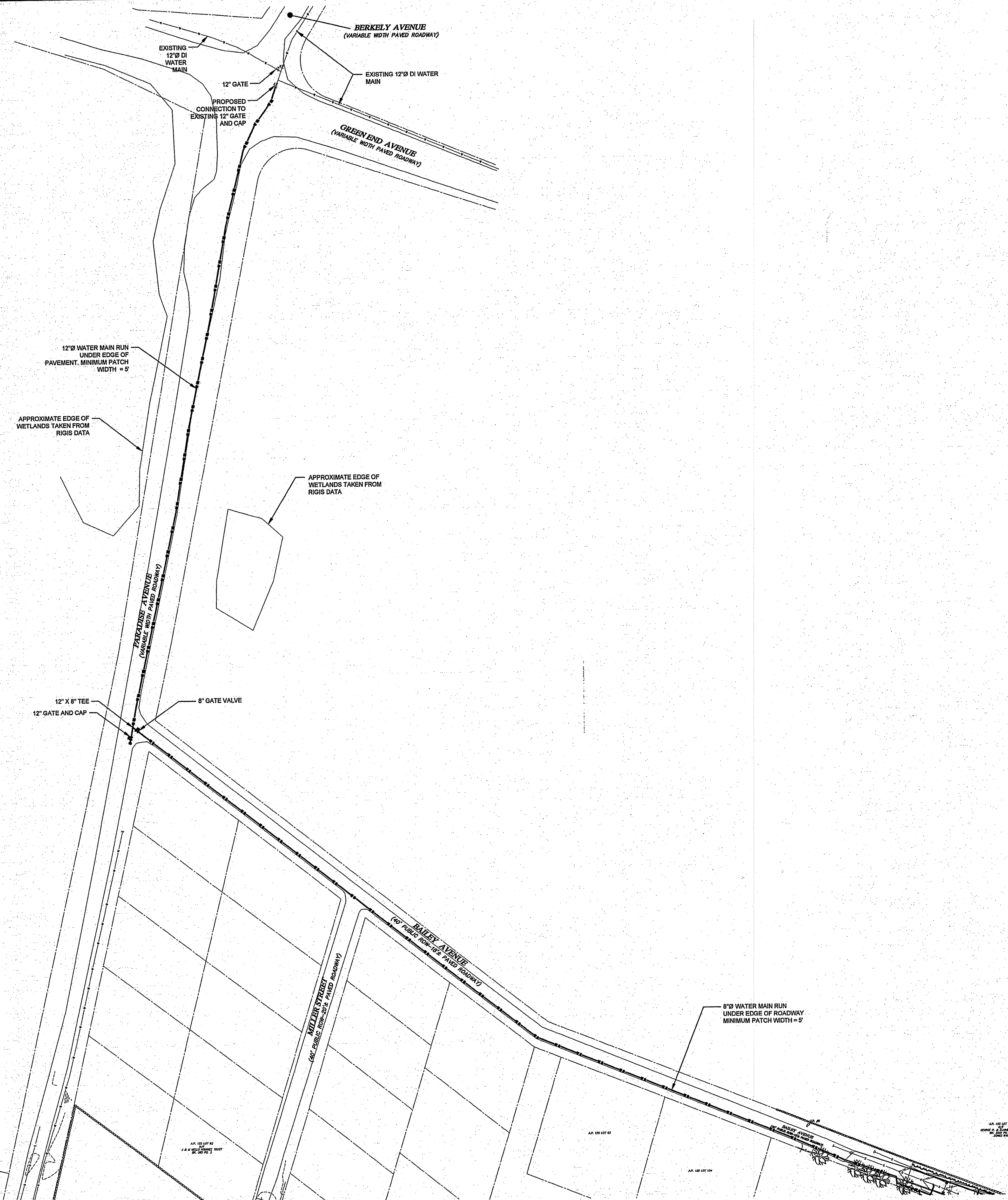
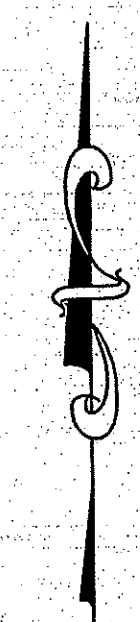


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LEGEND:

---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
---	EXISTING TOPOGRAPHIC CONTOUR
---	STONEWALL
---	TREELINE / BRUSHLINE
---	WETLAND BUFFER
---	WATERSHED PROTECTION DISTRICT
---	EDGE OF WETLANDS
---	WETLAND FLAG
---	EXISTING SEWER LINE
---	EXISTING DRAIN LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND ELEC/TELE
---	EXISTING CATCH BASIN
---	EXISTING UTILITY POLE
---	EXISTING WELL
---	EXISTING SEWER MANHOLE
---	EXISTING REBAR
---	EXISTING DRILLHOLE
---	SUBDIVISION LINE
---	EDGE OF ROADWAY
---	CAPE COD BERM
---	PROPOSED WATER SERVICE
---	PROPOSED 8" WATER MAIN
---	PROPOSED 12" WATER MAIN
---	PROPOSED SEWER FORCE MAIN/SERVICE
---	PROPOSED GRAVITY SEWER MAIN/SERVICE
---	PROPOSED ELECT/TELE/CA SERVICES
---	PROPOSED SEWER MANHOLE
---	PROPOSED FIRE HYDRANT
---	PROPOSED ELECTRICAL BOX
---	PROPOSED WATER VALVE
---	PROPOSED WELL
---	PROPOSED TOPOGRAPHIC CONTOUR
---	PROPOSED DRAIN LINE
---	PROPOSED CATCH BASIN

No.	Revision	Date	App.

Designed By: JJR Drawn by: JJR Checked by: —  
 Scale: 1"=80' Date: OCT09

Project Title:

**SALTWOOD FARM**  
 A.P. 126 LOTS 4, 217, 218 & 219  
 SACHUEST DRIVE, BAILEY AVENUE  
 AND CROSS COUNTRY LANE  
 MIDDLETOWN, RI 02842

Client/Owner:

PETER GALLIPEAU  
 P.O. BOX 4286  
 MIDDLETOWN RI

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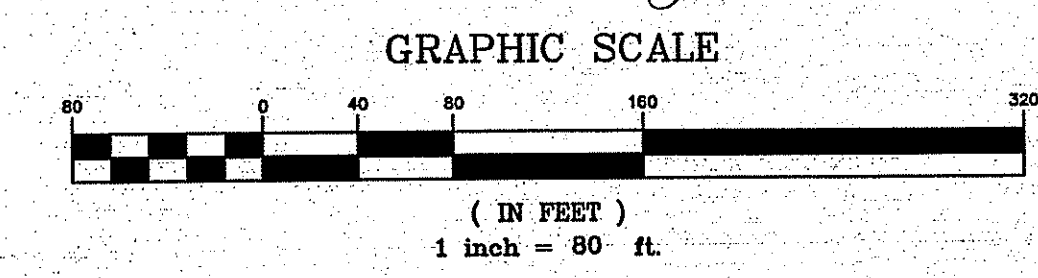
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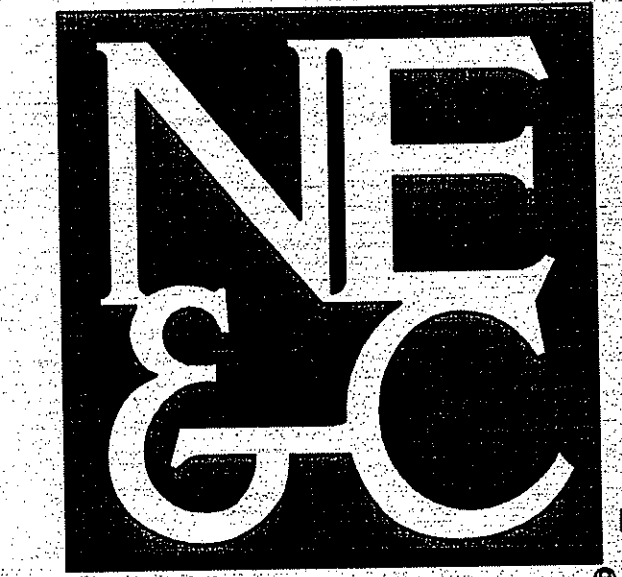
**WATER MAIN  
 EXTENSION PLAN**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED DEC 30 2009 FILE # 19-0209 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE. <i>Joseph Conroy</i>	Drawing Number:	W-1
	Sheet:	19 of 22
	Project Number:	06088.0
	Survey Index:	13-126-218

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*Joseph Conroy*

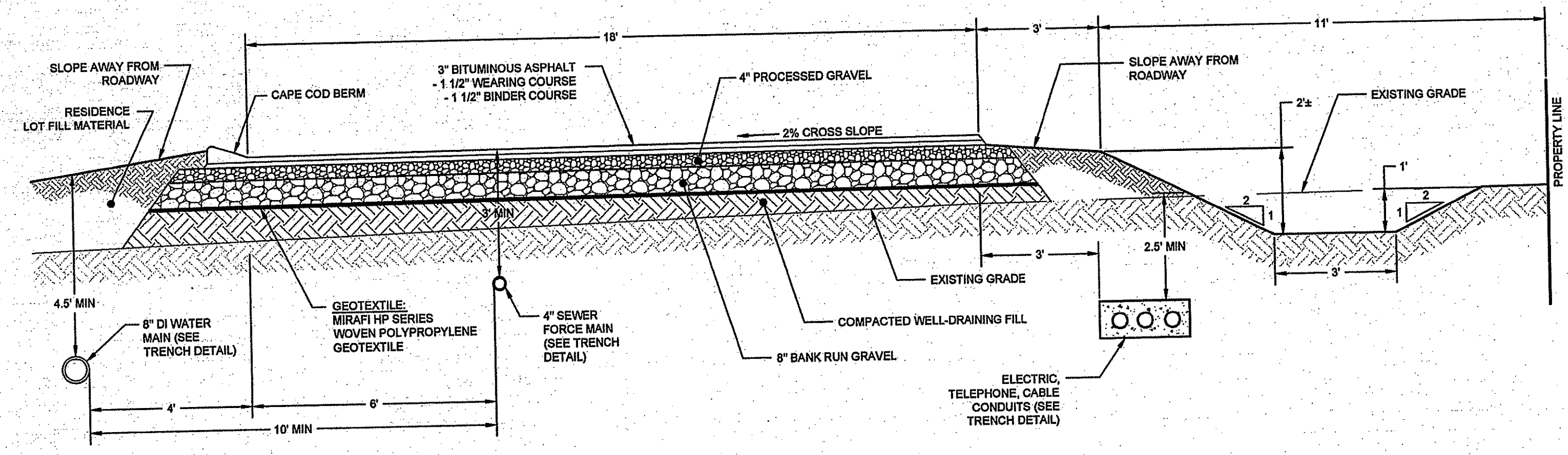




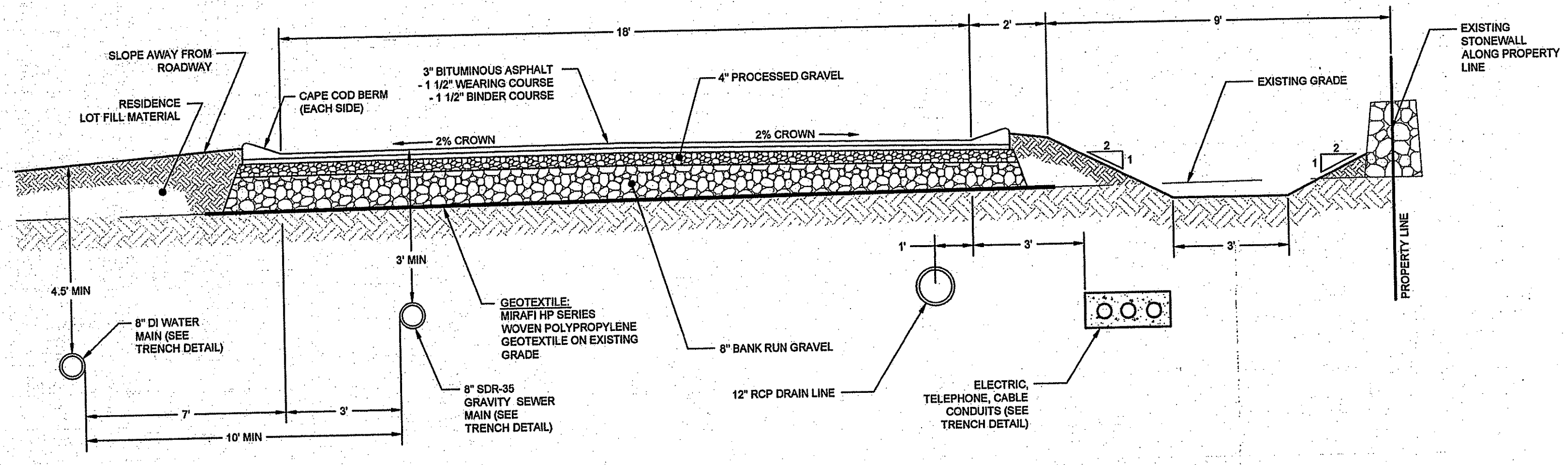
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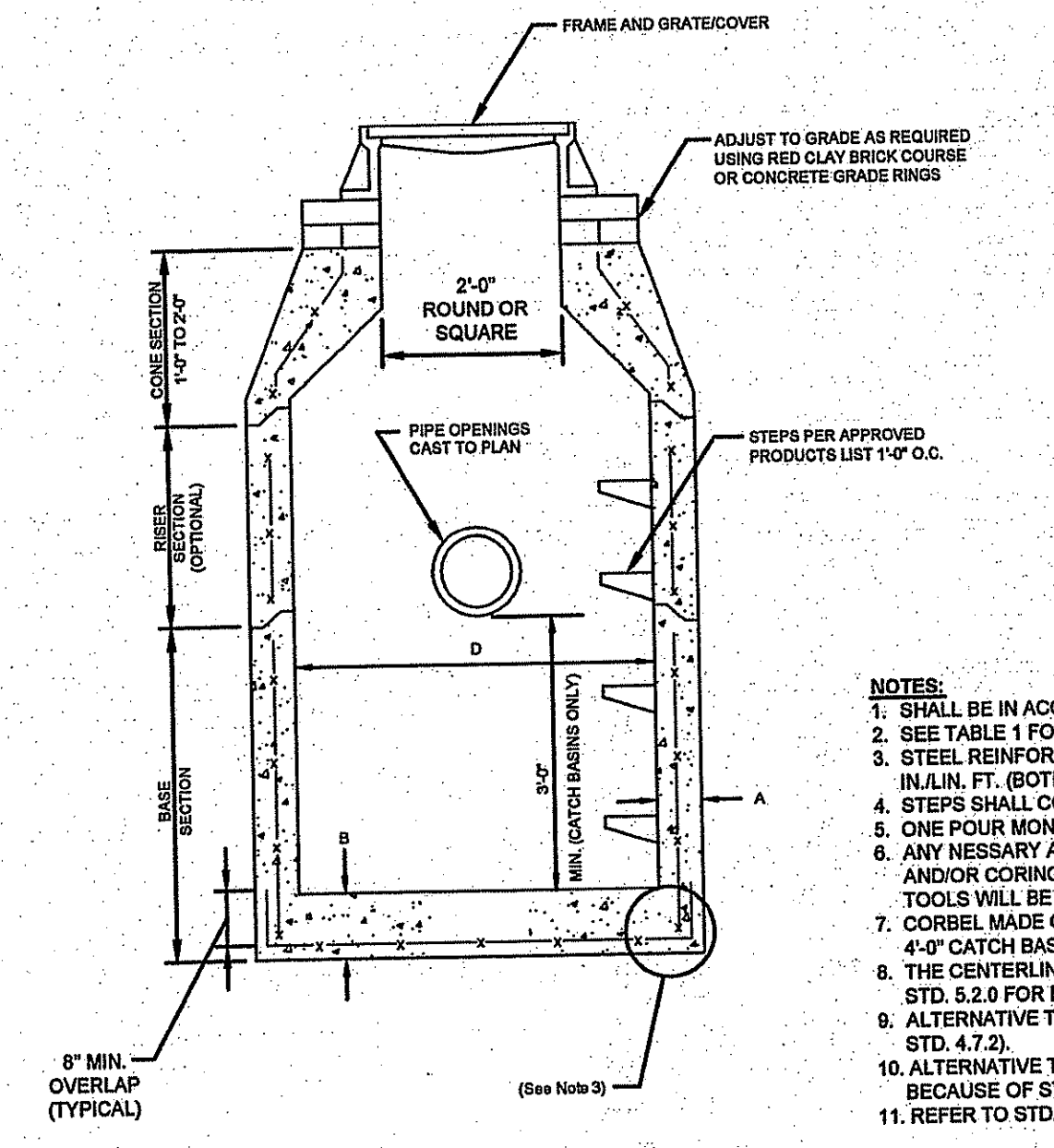
NOV 12 2009



CROSS SECTION: SALTWOOD DRIVE  
SCALE: 1"=2.5'



CROSS SECTION: BAILEY AVENUE EXTENSION  
SCALE: 1"=2.5'



PRECAST ROUND CATCH BASIN & DRAIN MANHOLE (RIDOT 4.4.0)  
SCALE: NOT TO SCALE

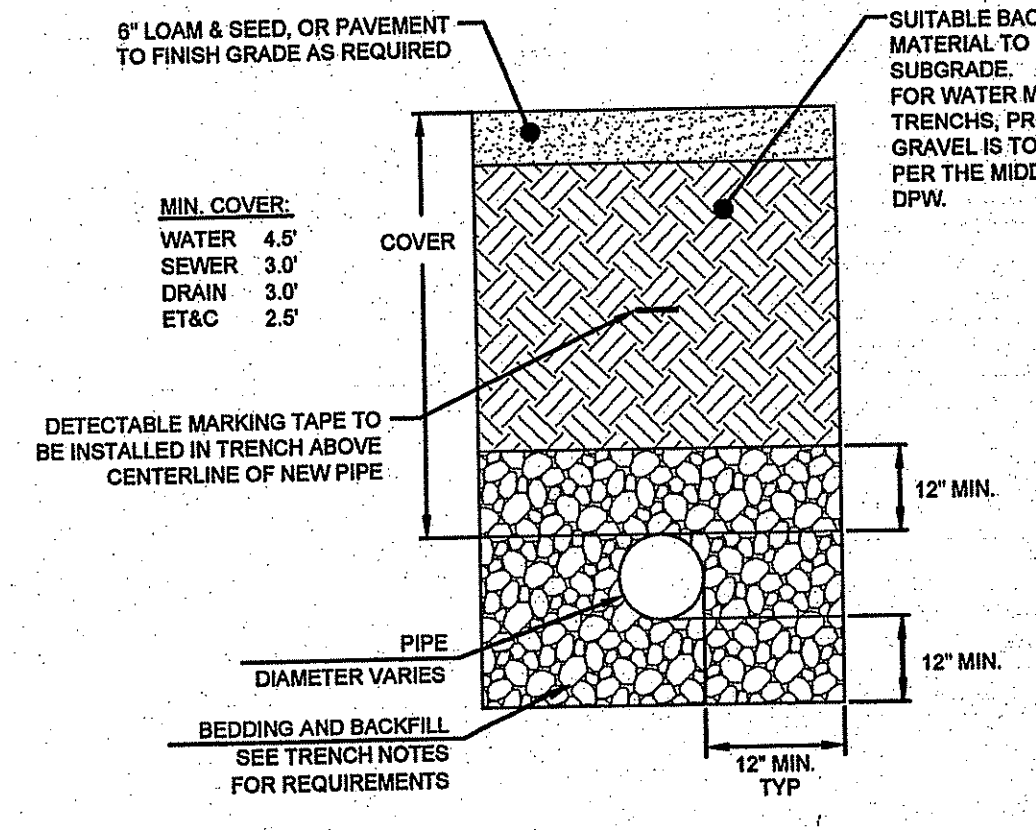
ALTERNATIVE TOP SLAB (See Notes 9 & 10)

AS REQUIRED

CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*	
	A	B
4'-0"	6"	6"
5'-0"	6"	7"
6'-0"	7"	8"

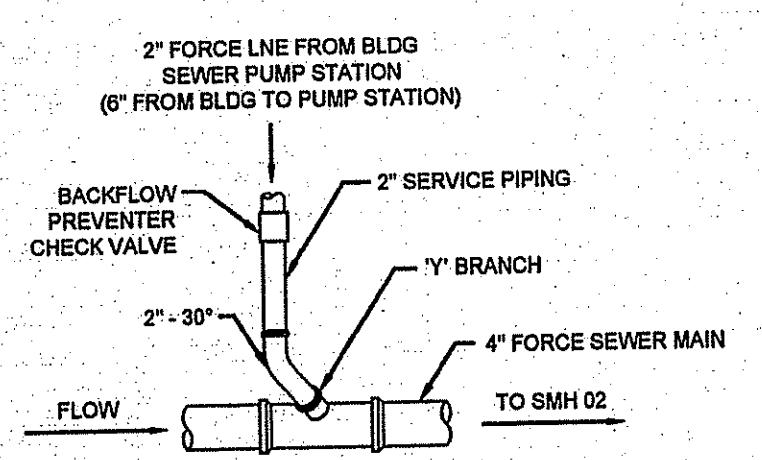
\* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 6.1.2

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATION.
  - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
  - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
  - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  - ONE POUR MONOLITHIC BASE SECTION.
  - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
  - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS. 11. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.
  - ALTERNATIVE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
  - ALTERNATIVE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

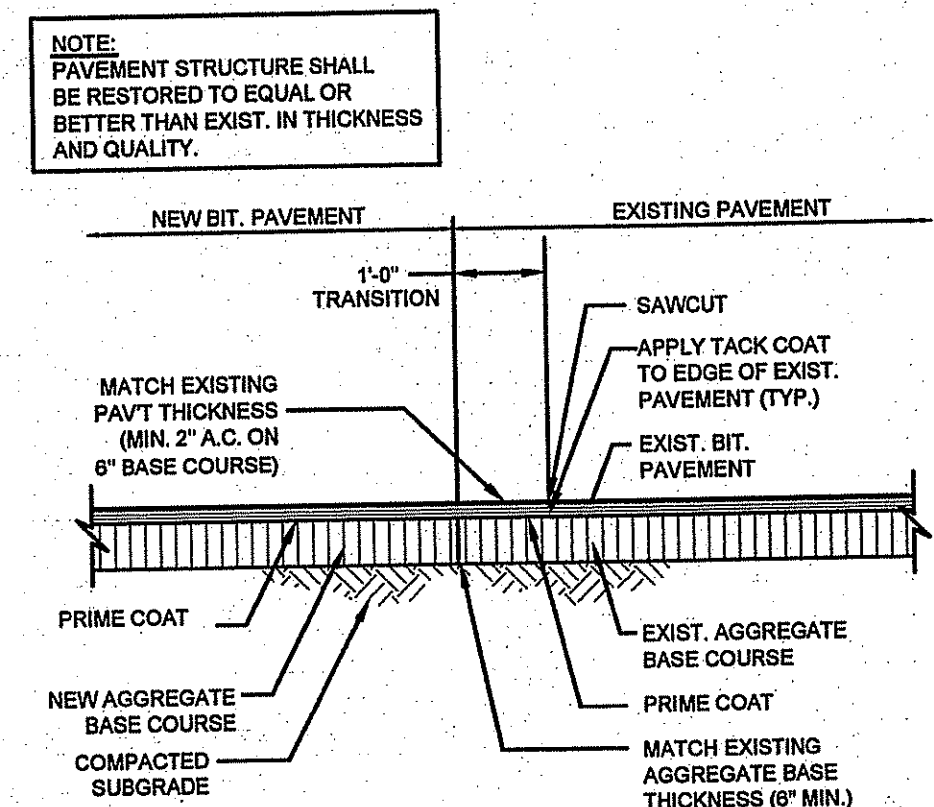


UTILITY TRENCH DETAIL  
SCALE: NOT TO SCALE

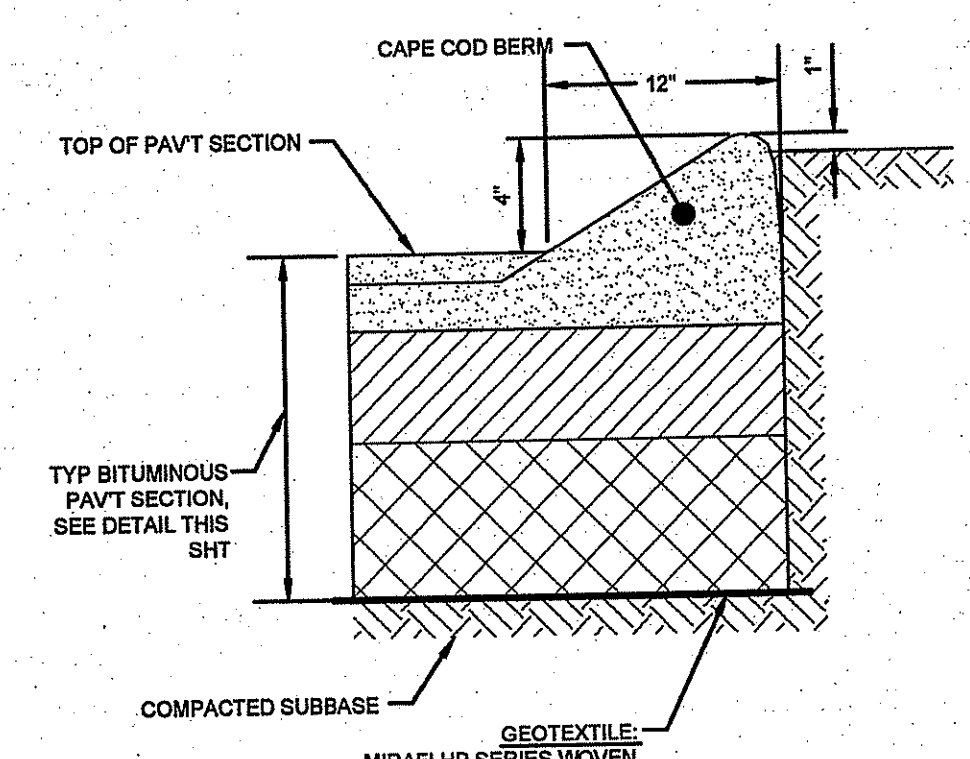
- NOTES:
- UNSATURABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
  - TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
  - SEWER AND DRAIN PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
  - ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE DR 35, OR SIMILAR APPROVED. 8" DIA MAINS - 6" DIA SERVICES.
  - ALL DRAIN PIPES SHALL BE RCP CLASS III TYPES UNLESS OTHERWISE INDICATED.
  - ALL NEW SEWER MANHOLES SHALL HAVE KOR-N-SEAL CONNECTIONS, TYPICAL OR EQUAL.
  - BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (ASHTO T199). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER. FOR WATER MAIN TRENCHES, BACKFILL MATERIAL SHALL BE COMPRISED ONLY OF PROCESSED GRAVEL PER THE MIDDLETOWN DPW.
  - SEWER AND DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL, THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.02 TYPE II MATERIAL.
  - WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO ASHTO M8 REQUIREMENTS.
  - UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN OF MIDDLETOWN PUBLIC WORKS DEPARTMENT RULES AND REGULATIONS.



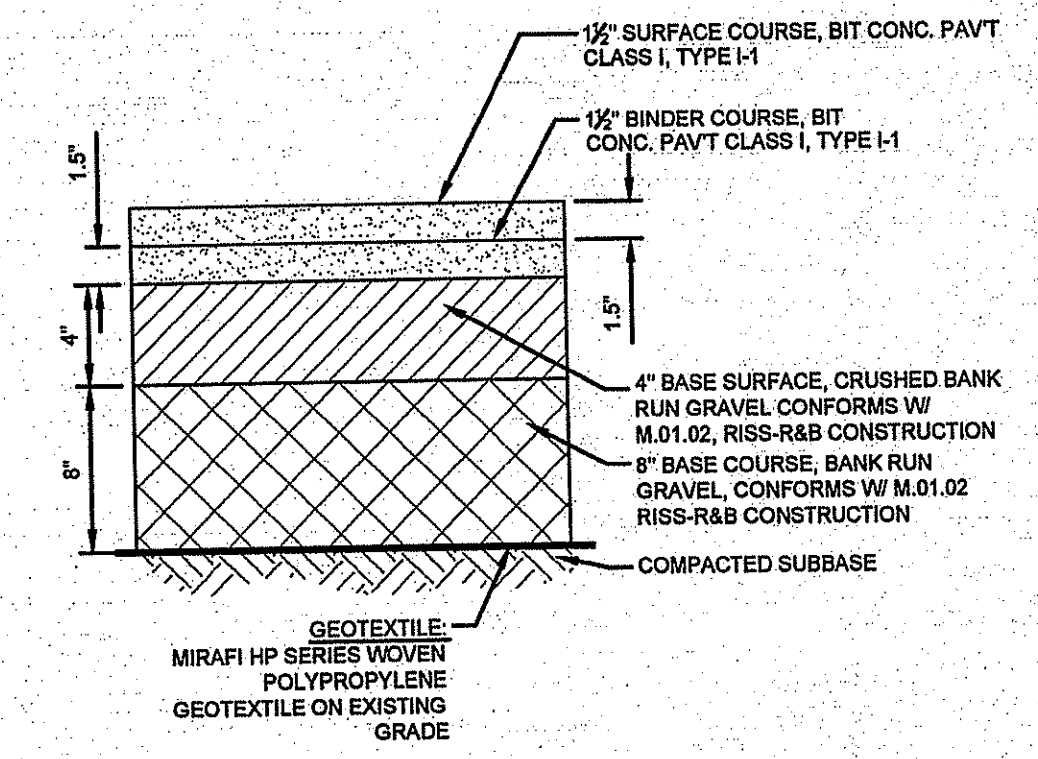
FORCE SEWER SERVICE CONNECTION DETAIL  
SCALE: NOT TO SCALE



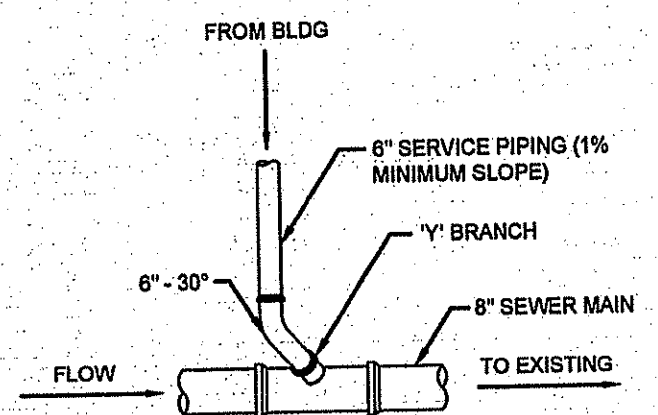
SMOOTH RIDING CONNECTION DETAIL  
NOT TO SCALE



TYPICAL CAPE COD BERM  
SCALE: NOT TO SCALE



TYPICAL BITUMINOUS PAVEMENT SECTION  
SCALE: NOT TO SCALE

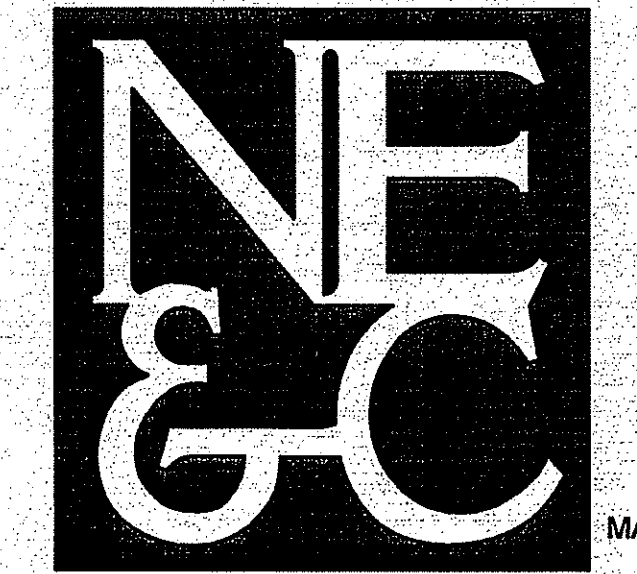


GRAVITY SEWER SERVICE CONNECTION DETAIL  
SCALE: NOT TO SCALE

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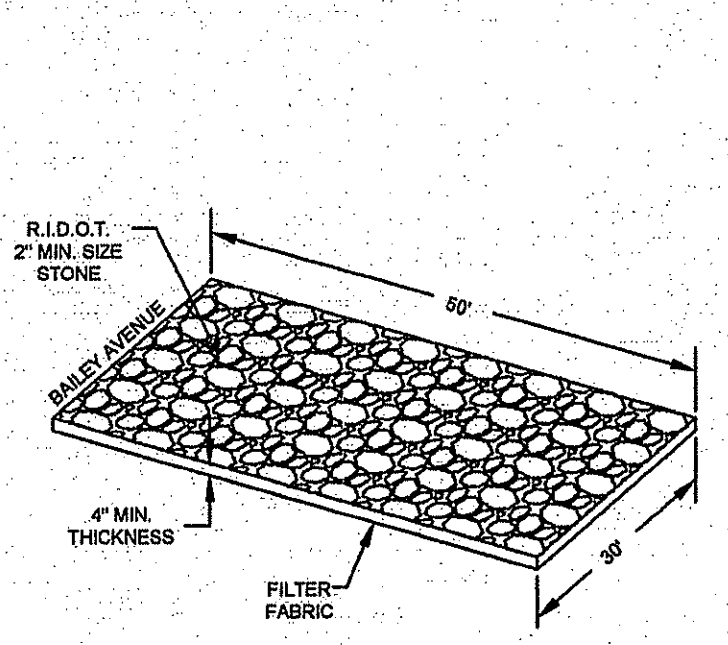
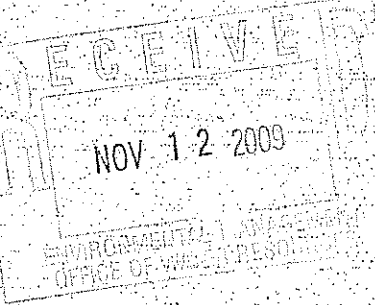
*W. Joseph Casey*

No.	Revision	Date	App.
Designed By: JJR	Drawn by: JJR	Checked by:	
Scale: AS SHOWN	Date: OCT09		
Project Title:			
<b>SALTWOOD FARM</b>			
A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842			
Client/Owner:			
PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI			
Issued for:			
PERMITTING			
Drawing Title:			
<b>SITE DETAILS</b>			
Drawing Number:		D-1	
Sheet 20 of 22		Project Number: 06088.0	
Survey Index:		13 - 126 - 218	
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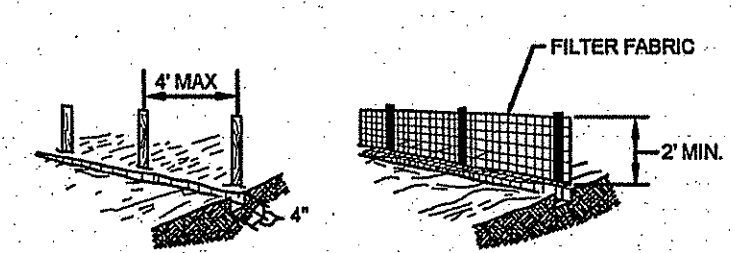


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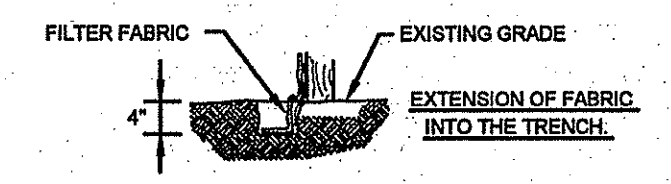
SITE/CIVIL  
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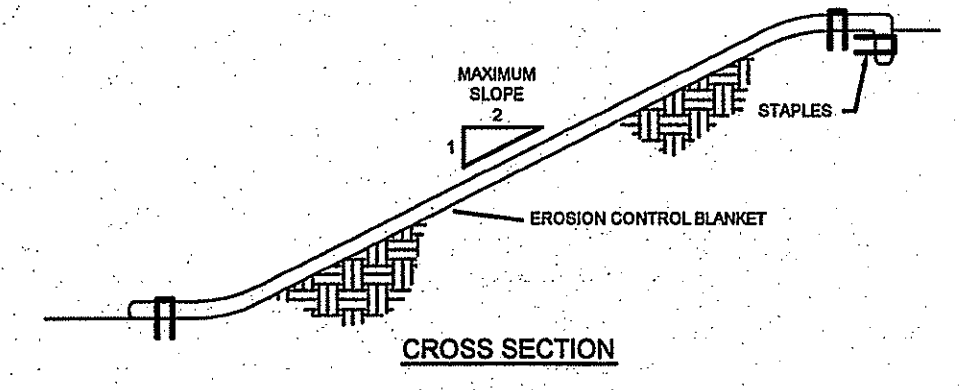
**CONSTRUCTION ENTRANCE**  
 NOT TO SCALE



1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UP SLOPE 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.

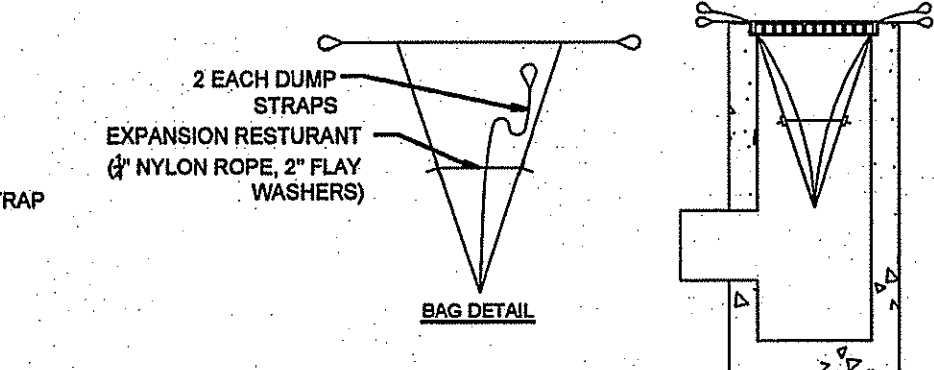
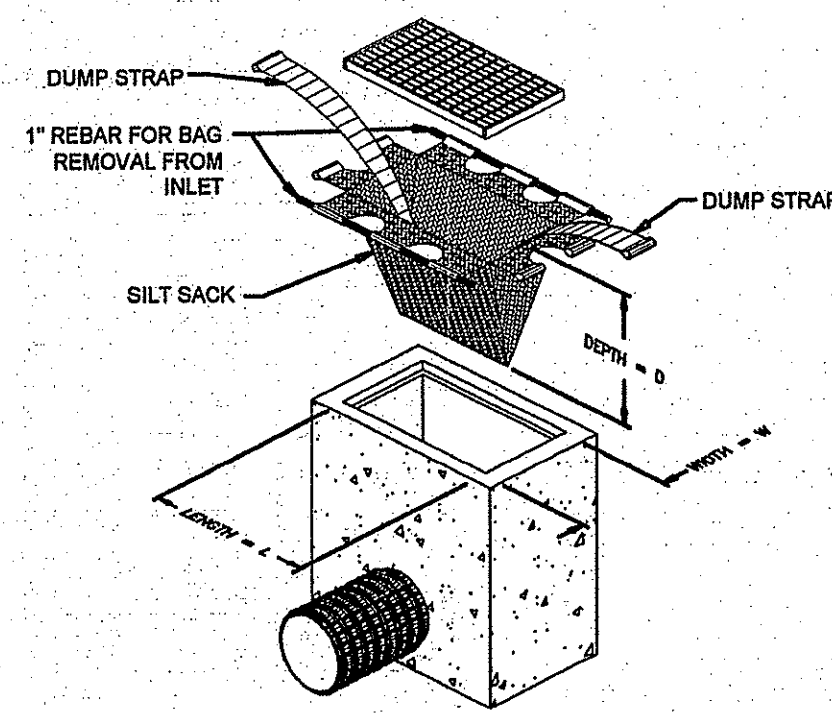


**SILT FENCE**  
 NOT TO SCALE



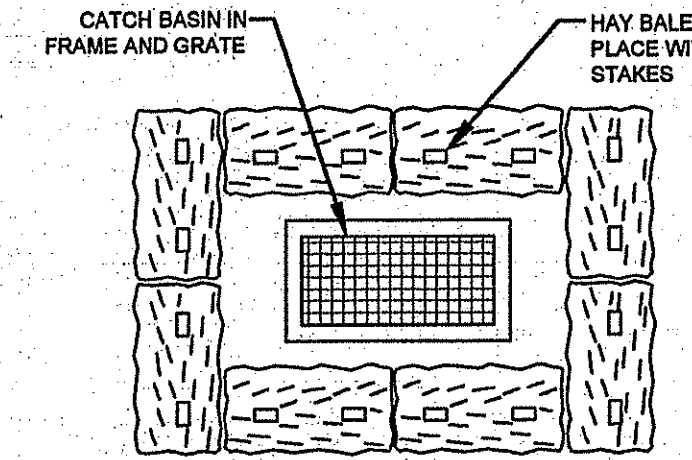
- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
  3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
  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 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
  6. SOIL EROSION BLANKETS REQUIRED ON ALL NON-VEGETATED SLOPES IN EXCESS OF 30%.

**SOIL EROSION BLANKET DETAIL**  
 NOT TO SCALE



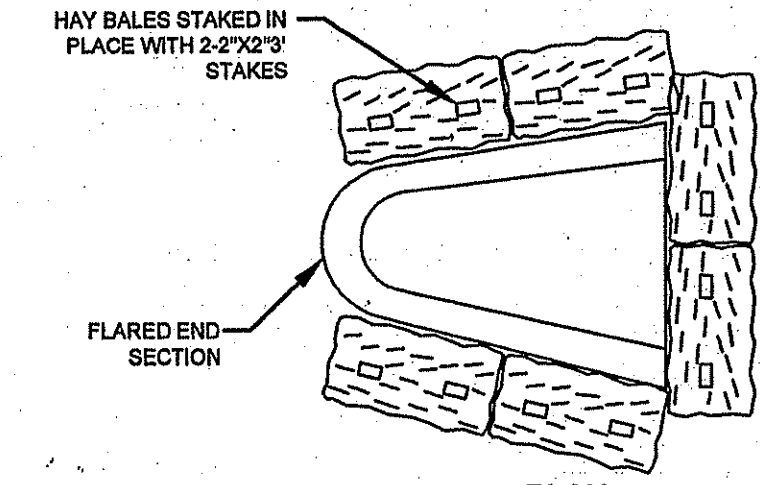
- MAINTENANCE SCHEDULE:**
1. EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT (>0.25" OF PRECIPITATION IN 24 HOURS).
  2. IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
  3. THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.
  4. SILTSACKS TO BE INSTALLED IN CATCH BASINS DRAINING TO WET POND.

**SILT SACK DETAIL**  
 SCALE: NOT TO SCALE

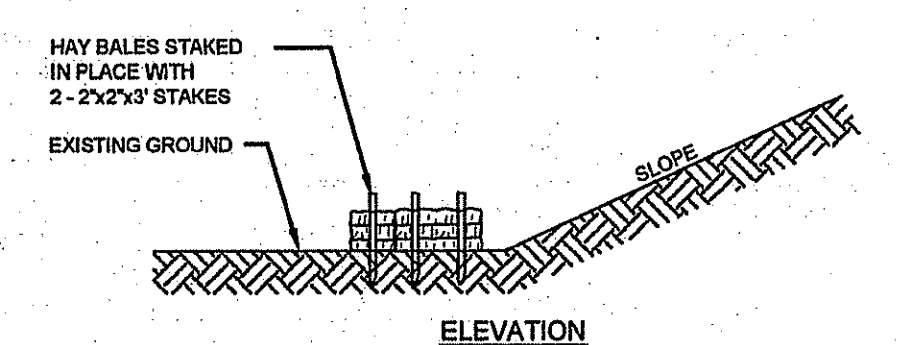


**PLAN**

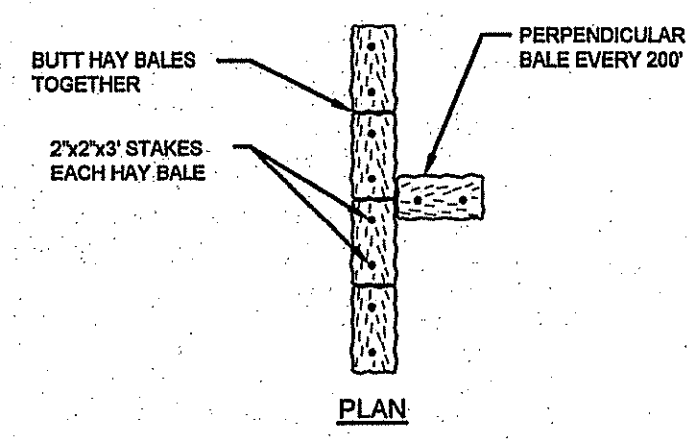
**HAY BALE INLET / OUTLET STRUCTURE PROTECTION**  
 SCALE: NOT TO SCALE



**PLAN**

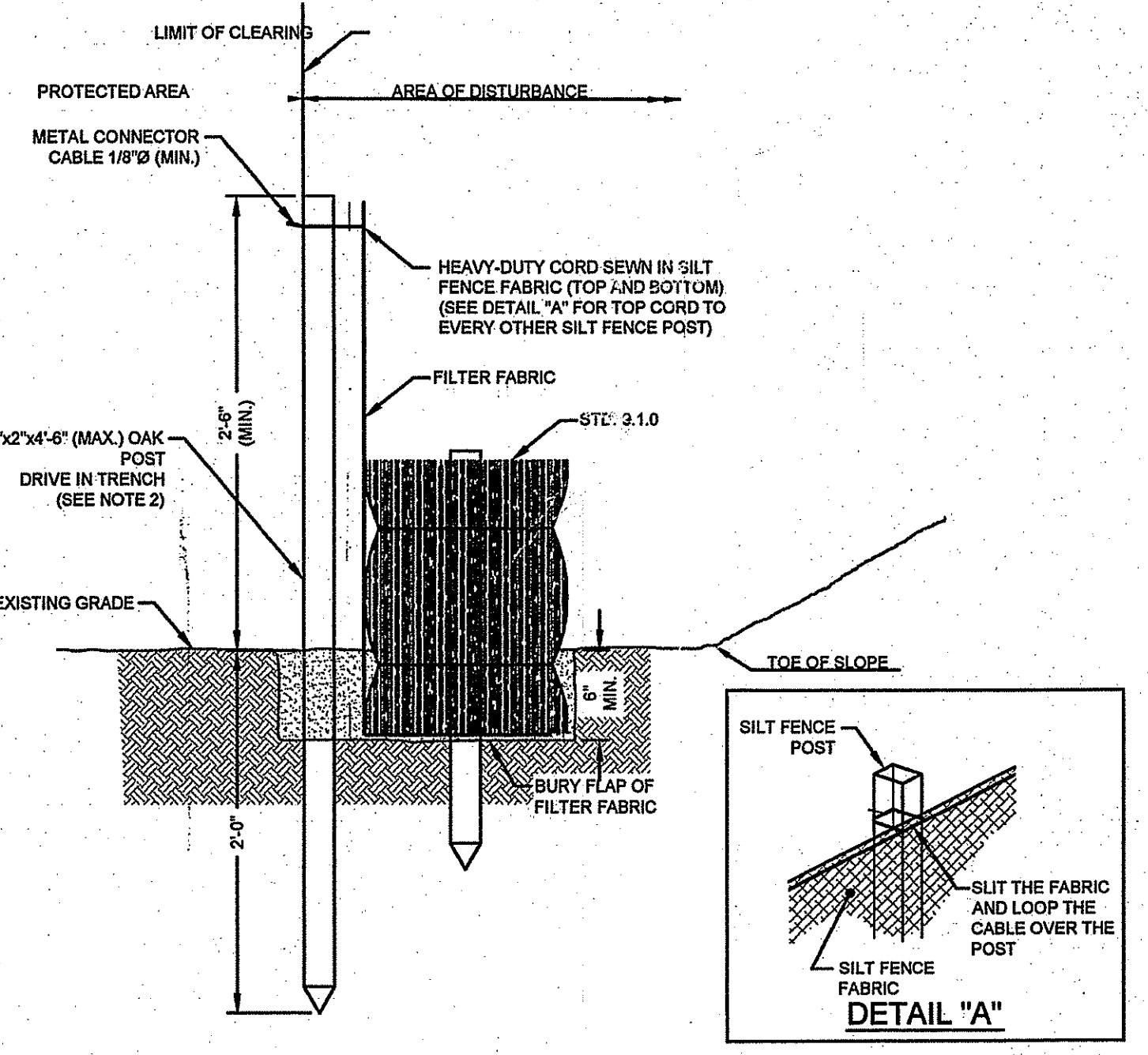


**ELEVATION**



**PLAN**

**HAY BALE SEDIMENT BARRIER**  
 NOT TO SCALE

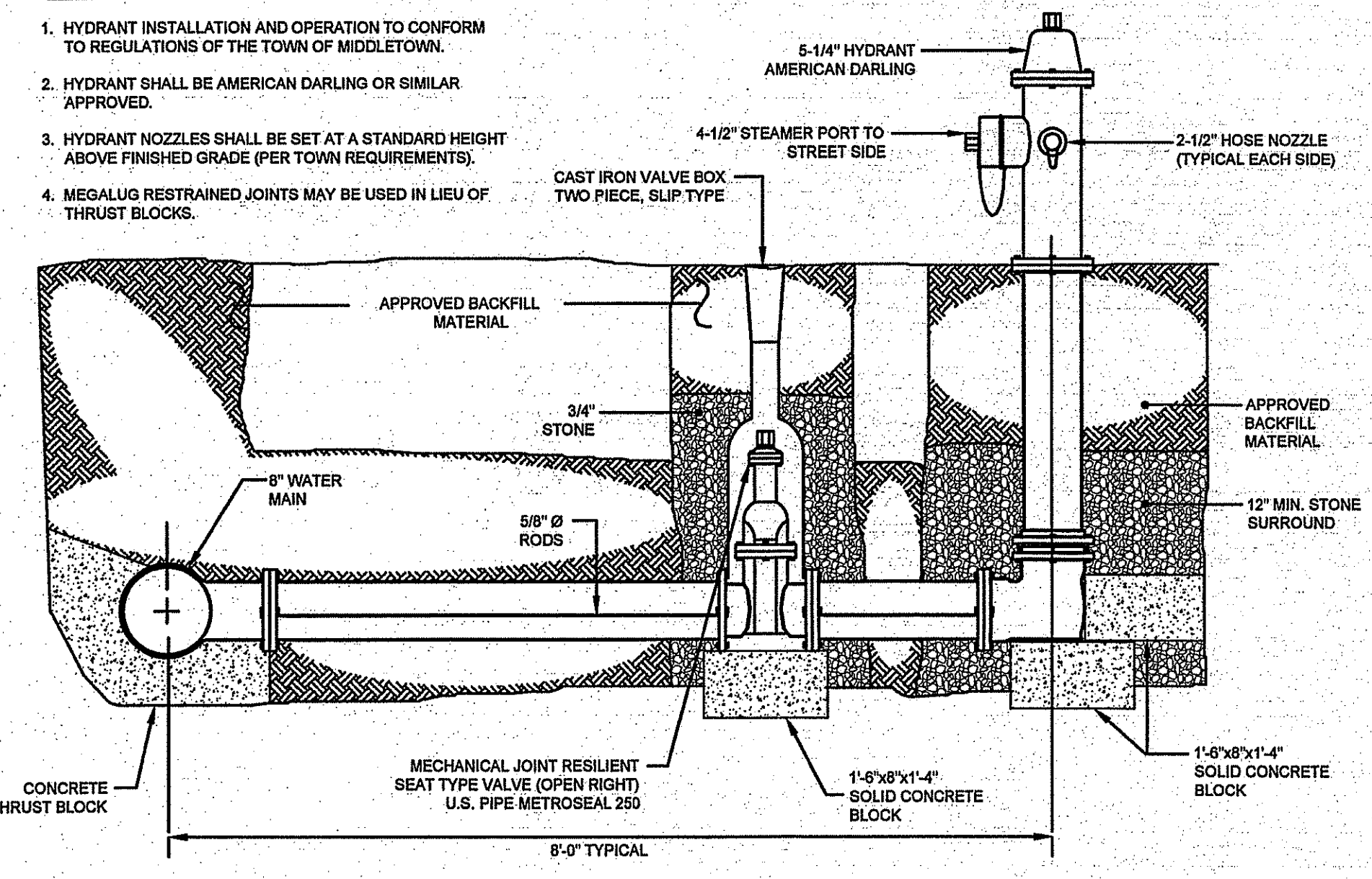


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
  2. STD. 8.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 8.1.0 POST SHALL 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 RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
  3. 1"x1"x4" (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.

**BALED HAY EROSION CHECK AND SILT FENCE COMBINED (RIDOT 9.3.0)**  
 NOT TO SCALE

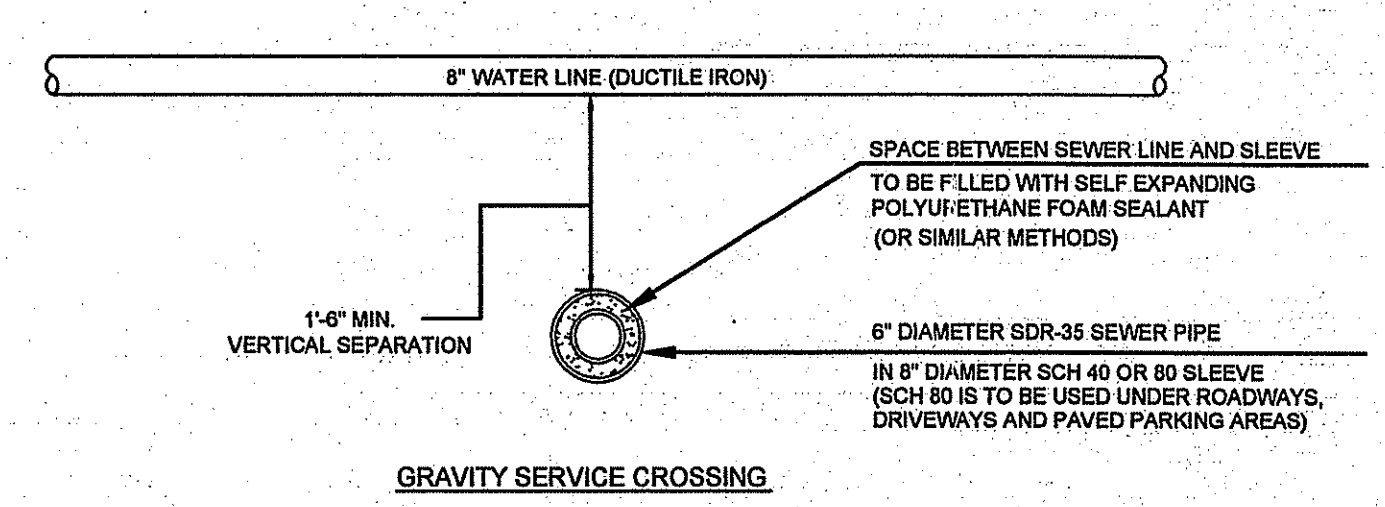
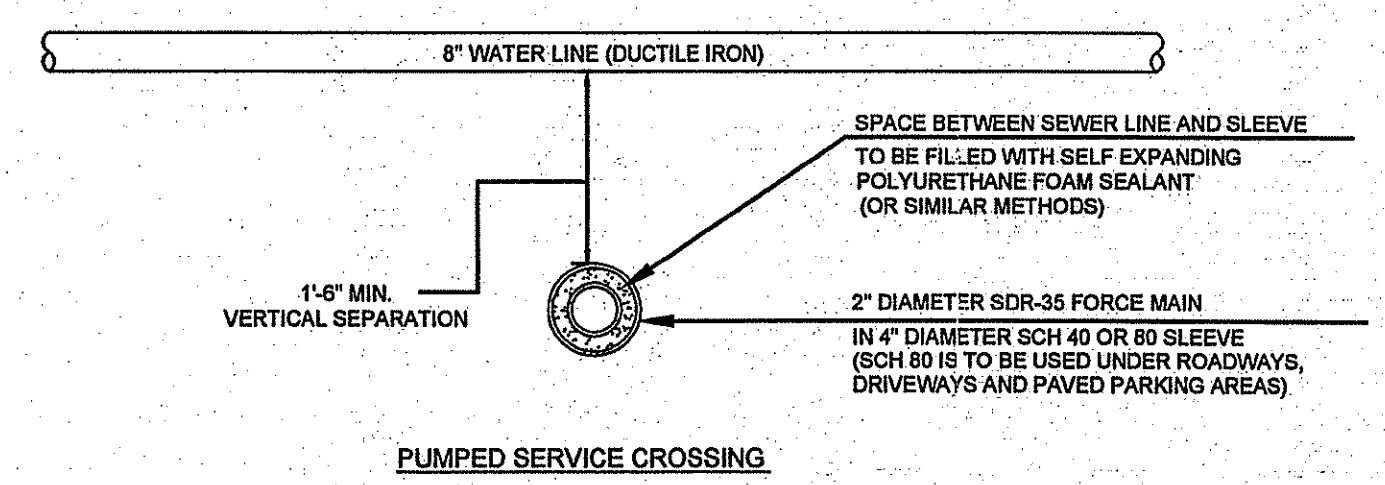
**HYDRANT NOTES**

1. HYDRANT INSTALLATION AND OPERATION TO CONFORM TO REGULATIONS OF THE TOWN OF MIDDLETOWN.
2. HYDRANT SHALL BE AMERICAN DARLING OR SIMILAR APPROVED.
3. HYDRANT NOZZLES SHALL BE SET AT A STANDARD HEIGHT ABOVE FINISHED GRADE (PER TOWN REQUIREMENTS).
4. MEGALUG RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS.



**WATER/SEWER PIPE CROSSING NOTES:**

1. ALL SLEEVING ON SEWER LINES SHALL EXTEND 10 FEET ON EITHER SIDE OF THE CROSSING POINTS.
2. SLEEVING PIPES SHALL BE RING-TITE GASKETED PVC SEWER PIPE OR SIMILAR APPROVED.
3. FOAM SEALANT SHALL BE WILLSEAL BY ILLBRUCK OR SIMILAR APPROVED.
4. CONSTRUCTION DETAIL & SEPARATION DISTANCES SHALL BE THE SAME IN INSTANCES WHERE SEWER CROSSES ABOVE WATER LINE.

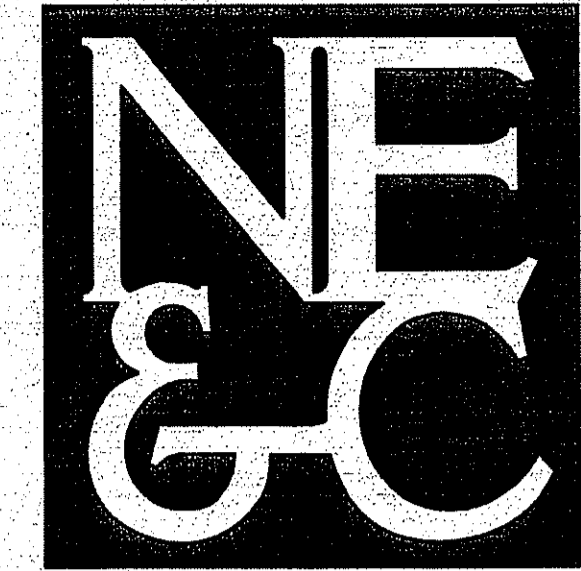


**SEWER WATER CROSSING DETAIL**  
 SCALE: NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 30 2009 FILE # 09-0509  
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*Joseph Casey*

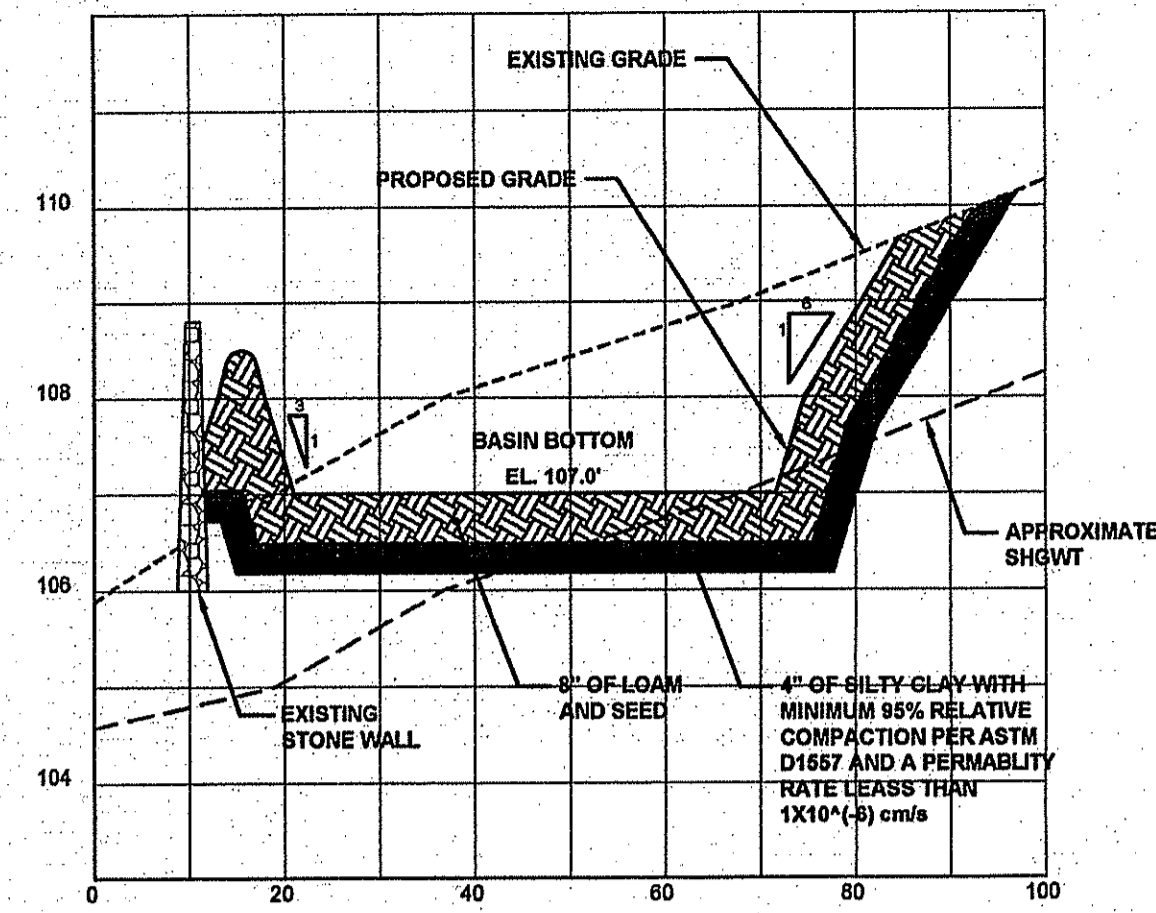
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Scale:	AS SHOWN	Date:	OCT09
Project Title:			
<b>SALTWOOD FARM</b>			
A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842			
Client/Owner:			
PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI			
Issued for:			
PERMITTING			
Drawing Title:			
<b>SITE DETAILS</b>			
Drawing Number:			
<b>D-2</b>			
Sheet 21 of 22			
Project Number:			
<b>06088.0</b>			
Survey Index:			
<b>13 - 126 - 218</b>			
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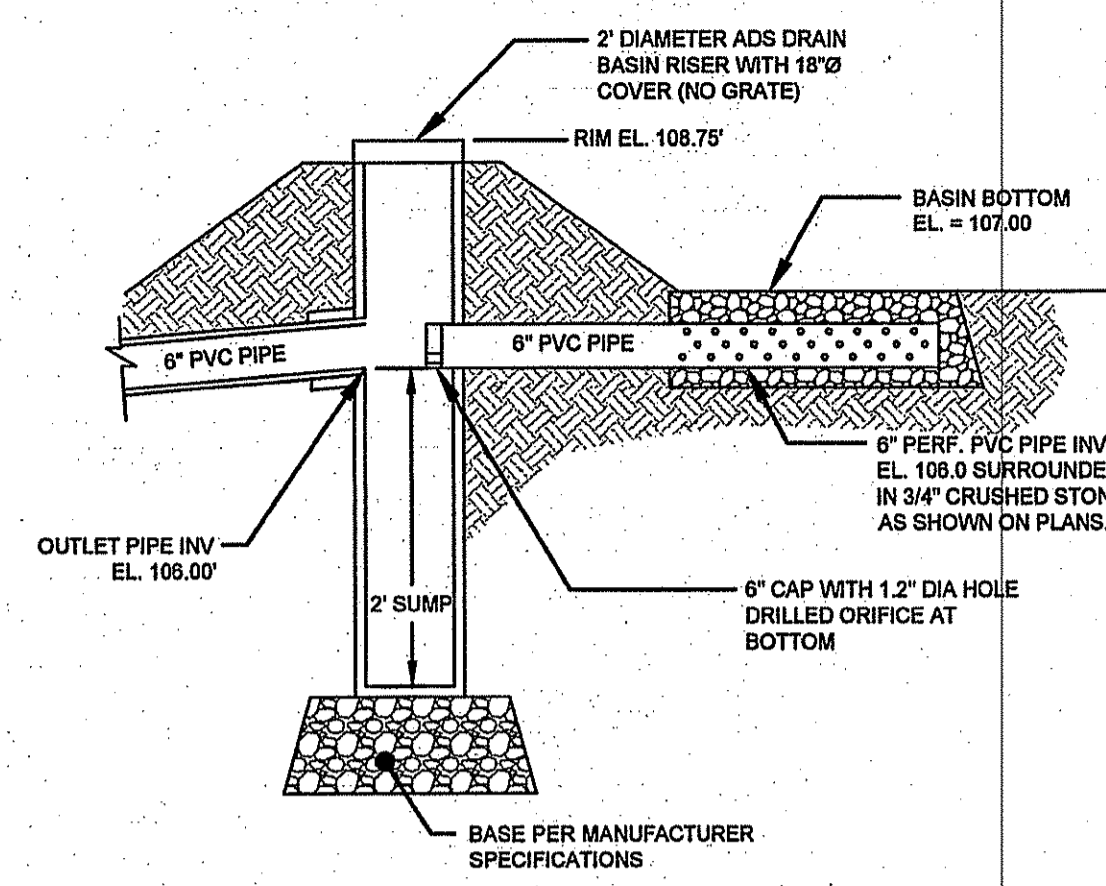
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842  
PHONE (401) 849-0810 FAX (401) 846-4169  
WWW.NORTHEASTENGINEERS.COM

NOV 12 2009



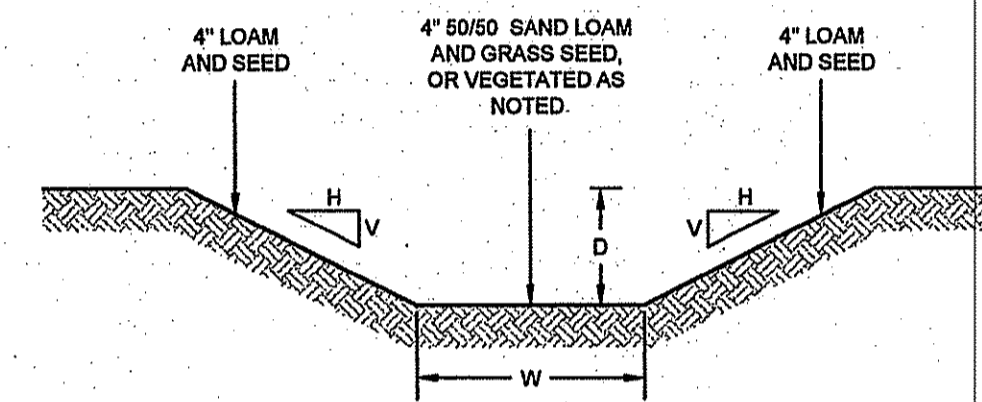
**DETENTION BASIN SECTION**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=2'



**BASIN OUTLET STRUCTURE DETAIL**

SCALE: NOT TO SCALE

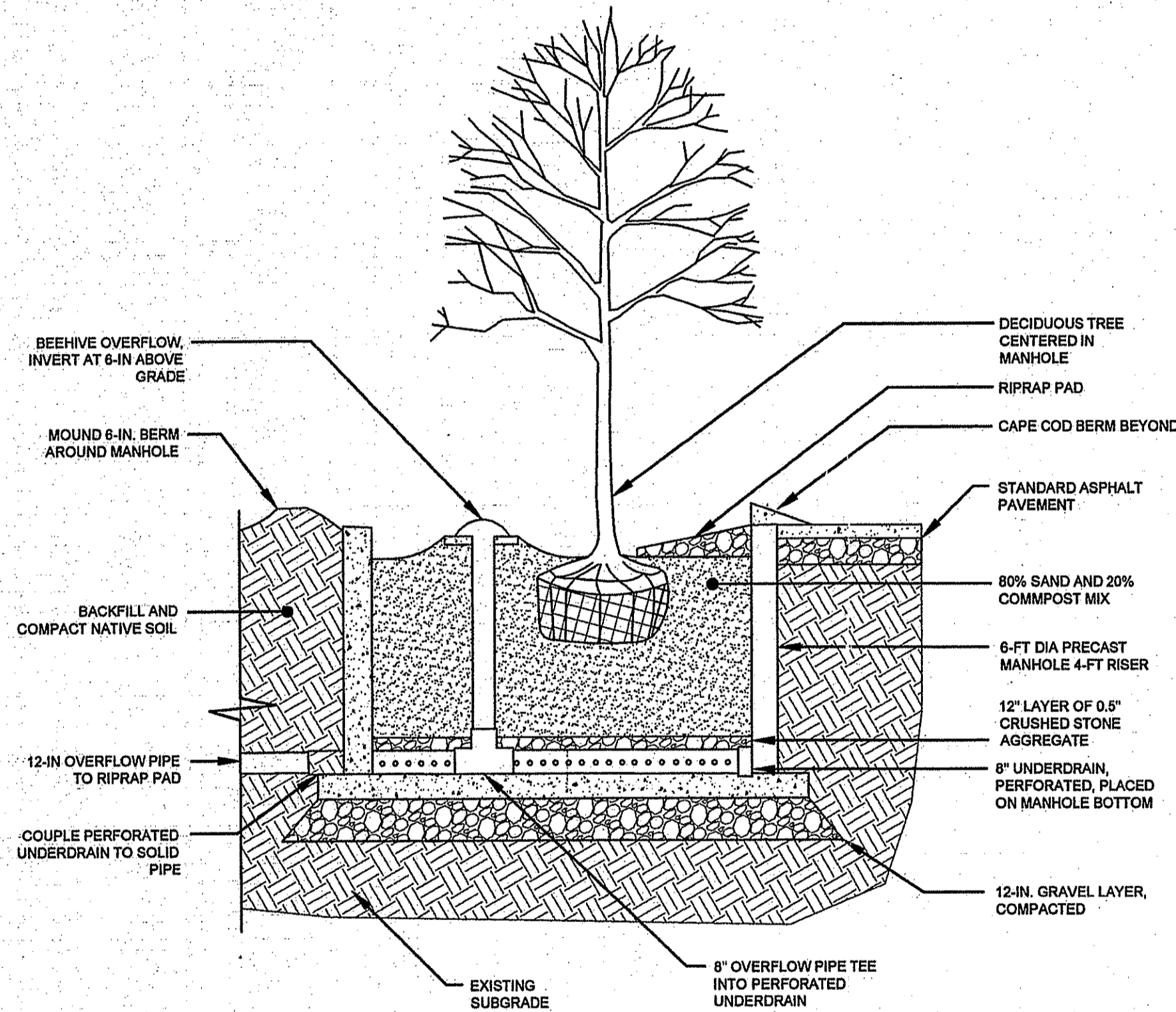


SWALE ID	H (FT)	V (FT)	W (FT)	D (FT)	VEGETATED* (Y/N)
1	2	1	3	VARIES	N
2	2	1	3	VARIES	N
3	3	1	5	1.5	Y
4	3	1	5	1.5	Y
5	3	1	6	1.5	N

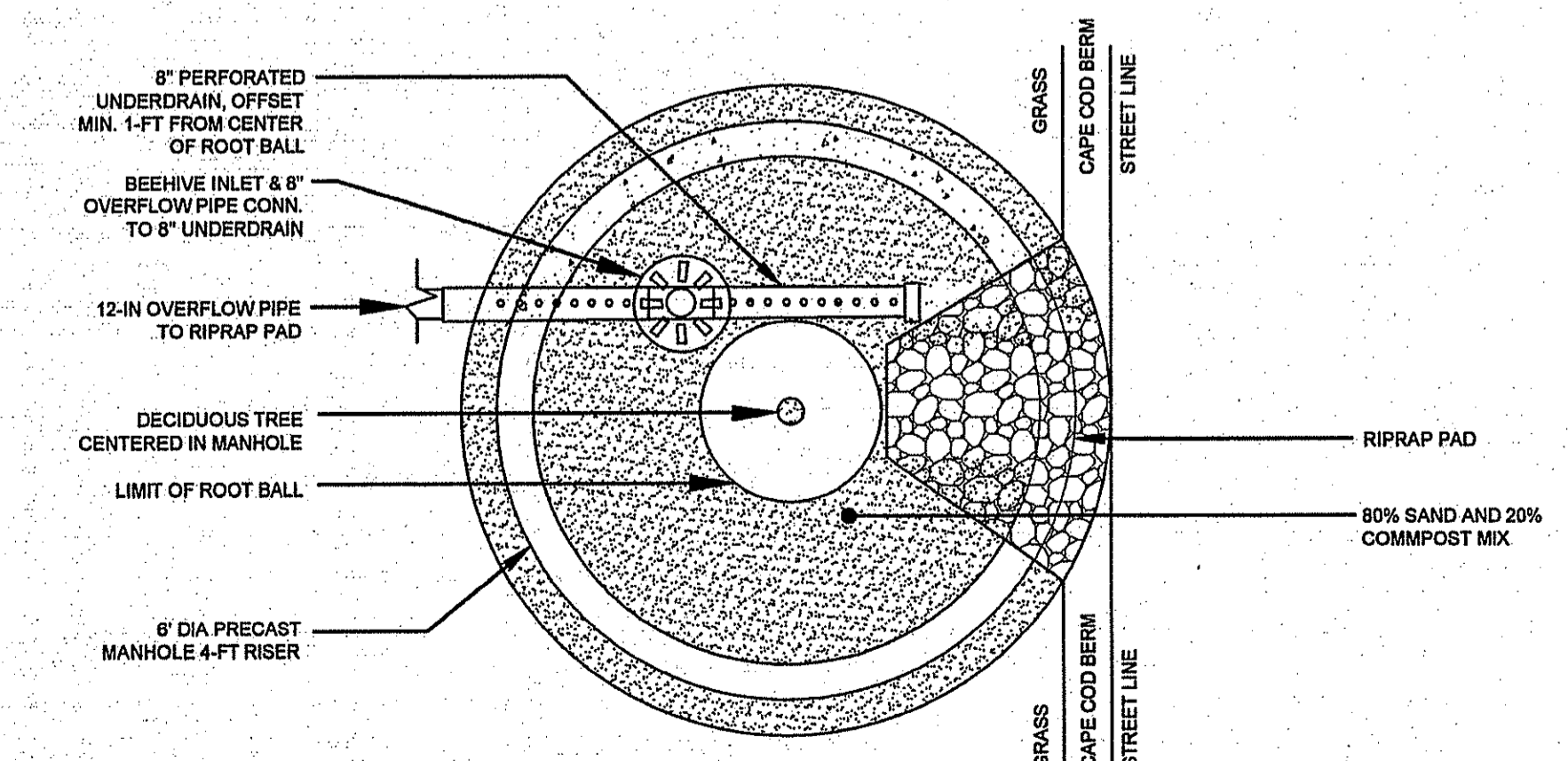
\* BANKS OF VEGETATED SWALES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" CLEAN LOAM TO FINISHED GRADE AND SEEDED WITH NEW ENGLAND RESTORATION/EROSION CONTROL MIX (MOIST SITE FORMULATION) BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL. SPREADING RATE SHALL BE 35 LBS PER ACRE.

**CROSS SECTION: SWALES**

SCALE: 1"=2.5'

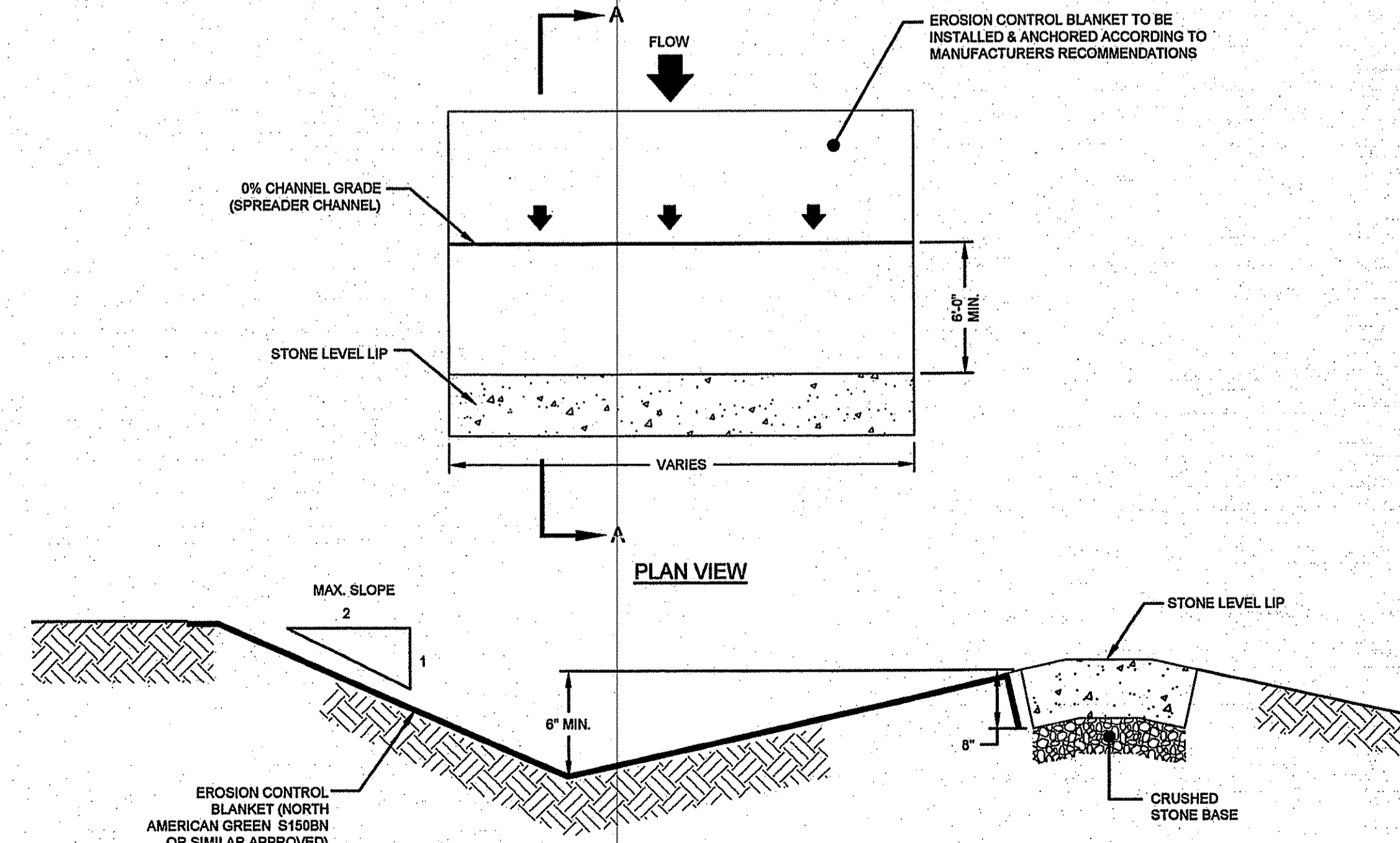


**SECTION VIEW**



**PLAN VIEW**

**TREE WELL FILTER DETAIL**  
SCALE: NOT TO SCALE



**PLAN VIEW**

**SECTION A-A**

**LEVEL SPREADER DETAIL**  
SCALE: NOT TO SCALE

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DATED DEC 30 2009 FILE # 09-0205  
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*W. Joseph Casey*

No.	Revision	Date	App.
Designed By: JJR	Drawn by: JJR	Checked by: ---	
Scale: AS SHOWN	Date: OCT09		
Project Title:			
<b>SALTWOOD FARM</b>			
A.P. 126 LOTS 4, 217, 218 & 219 SACHUEST DRIVE, BAILEY AVENUE AND CROSS COUNTRY LANE MIDDLETOWN, RI 02842			
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PETER GALLIPEAU P.O. BOX 4286 MIDDLETOWN RI			
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PERMITTING			
Drawing Title:			
<b>SITE DETAILS</b>			
Drawing Number:		D-3	
Sheet 22 of 22		Project Number: 06088.0	
No. 8550		Survey Index: 13-126-218	
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