

MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630

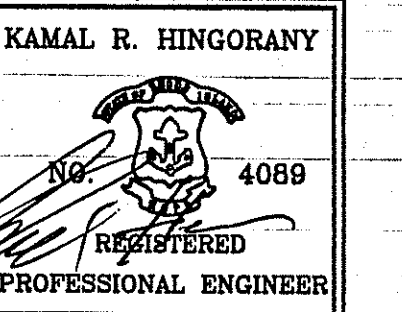
www.nei-cds.com

SHEET TITLE
EXISTING CONDITIONS
APOLLO BROTHERS, LLC
TOWN HOUSES -
SITE LAYOUT

PROJECT OWNER/ APPLICANT
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

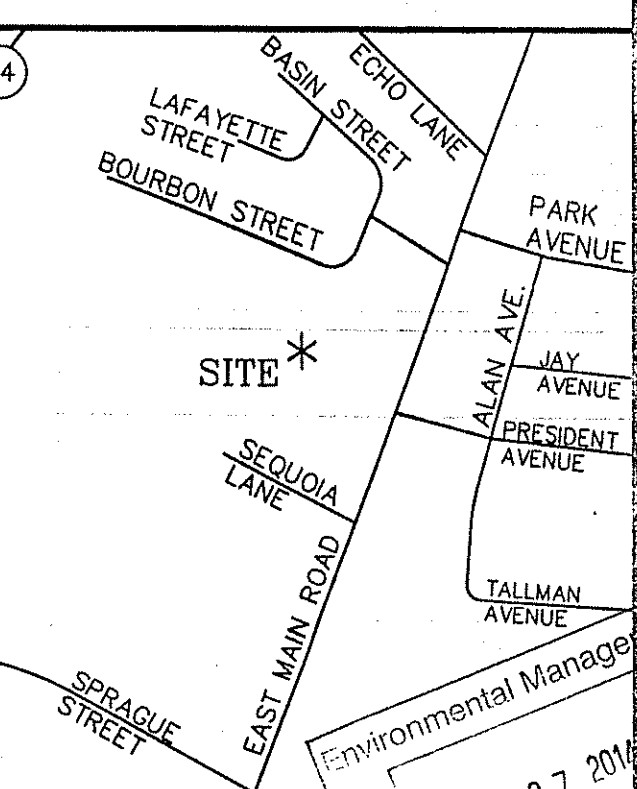
LOCATION
3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

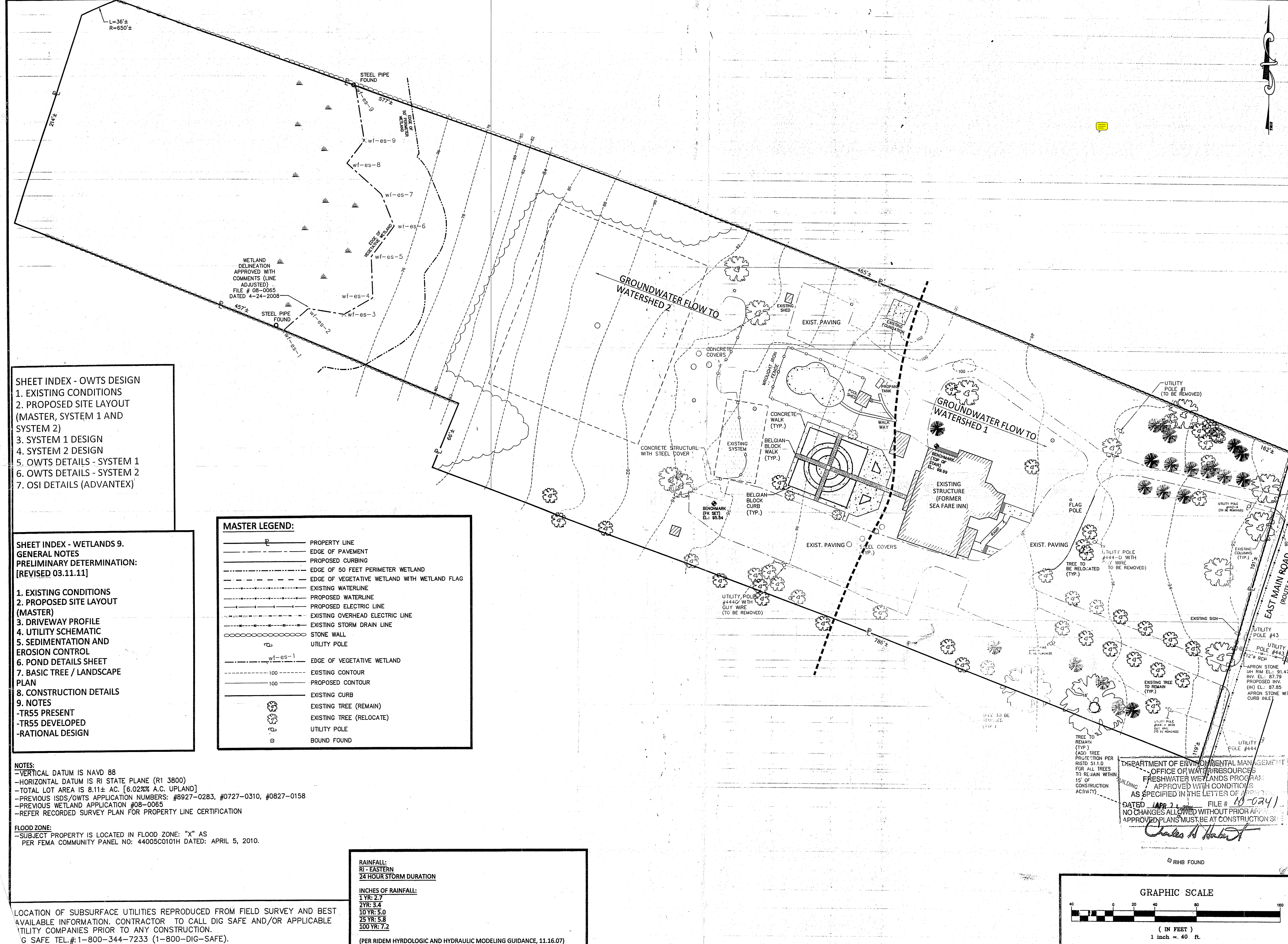


PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY



SHEET	SCALE
1	1"=40'



- SHEET INDEX - OWTS DESIGN**
1. EXISTING CONDITIONS
 2. PROPOSED SITE LAYOUT (MASTER, SYSTEM 1 AND SYSTEM 2)
 3. SYSTEM 1 DESIGN
 4. SYSTEM 2 DESIGN
 5. OWTS DETAILS - SYSTEM 1
 6. OWTS DETAILS - SYSTEM 2
 7. OSI DETAILS (ADVANTEK)

- SHEET INDEX - WETLANDS 9.**
- GENERAL NOTES**
- PRELIMINARY DETERMINATION:**
[REVISED 03.11.11]
1. EXISTING CONDITIONS
 2. PROPOSED SITE LAYOUT (MASTER)
 3. DRIVEWAY PROFILE
 4. UTILITY SCHEMATIC
 5. SEDIMENTATION AND EROSION CONTROL
 6. POND DETAILS SHEET
 7. BASIC TREE / LANDSCAPE PLAN
 8. CONSTRUCTION DETAILS
 9. NOTES
- TR55 PRESENT
 - TR55 DEVELOPED
 - RATIONAL DESIGN

MASTER LEGEND:

	PROPERTY LINE
	EDGE OF PAVEMENT
	PROPOSED CURBING
	EDGE OF 50 FEET PERIMETER WETLAND
	EDGE OF VEGETATIVE WETLAND WITH WETLAND FLAG
	EXISTING WATERLINE
	PROPOSED WATERLINE
	PROPOSED ELECTRIC LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM DRAIN LINE
	STONE WALL
	UTILITY POLE
	EDGE OF VEGETATIVE WETLAND
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING CURB
	EXISTING TREE (REMAIN)
	EXISTING TREE (RELOCATE)
	UTILITY POLE
	BOUND FOUND

NOTES:

- VERTICAL DATUM IS NAVD 88
- HORIZONTAL DATUM IS RI STATE PLANE (RI 3800)
- TOTAL LOT AREA IS 8.11± AC. [6.02% A.C. UPLAND]
- PREVIOUS ISDS/OWTS APPLICATION NUMBERS: #8927-0283, #0727-0310, #0827-0158
- PREVIOUS WETLAND APPLICATION #08-0065
- REFER RECORDED SURVEY PLAN FOR PROPERTY LINE CERTIFICATION

FLOOD ZONE:

- SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE: "X" AS PER FEMA COMMUNITY PANEL NO: 44005C0101H DATED: APRIL 5, 2010.

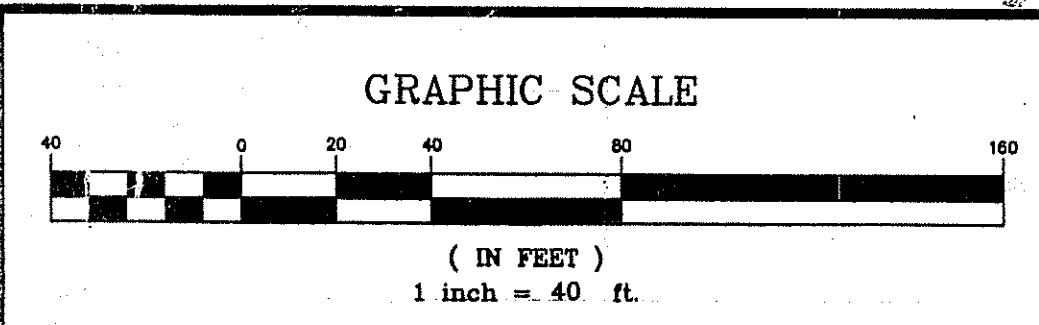
RAINFALL:
RI - EASTERN
24 HOUR STORM DURATION

INCHES OF RAINFALL:

1 YR: 2.7
2 YR: 3.4
10 YR: 5.0
25 YR: 5.8
100 YR: 7.2

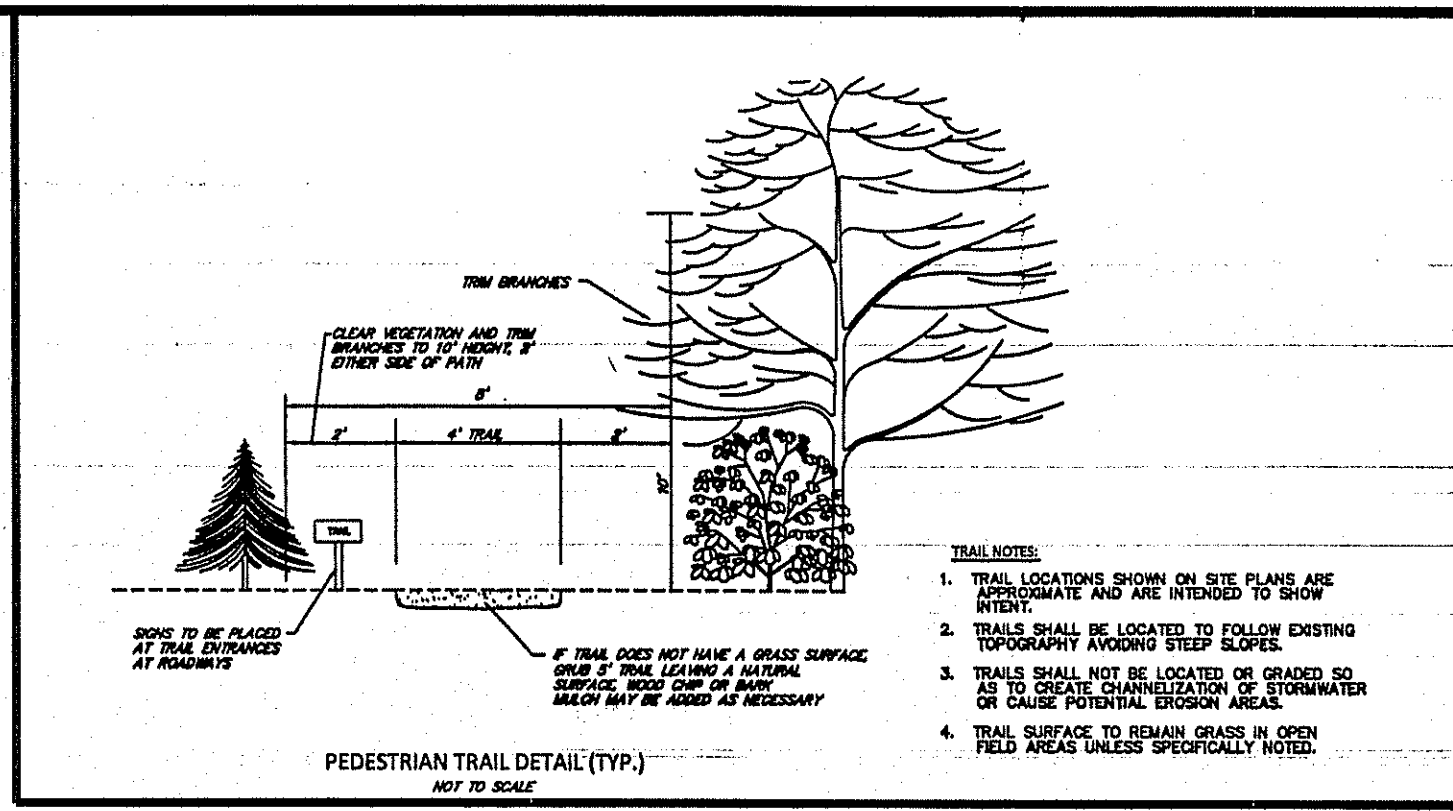
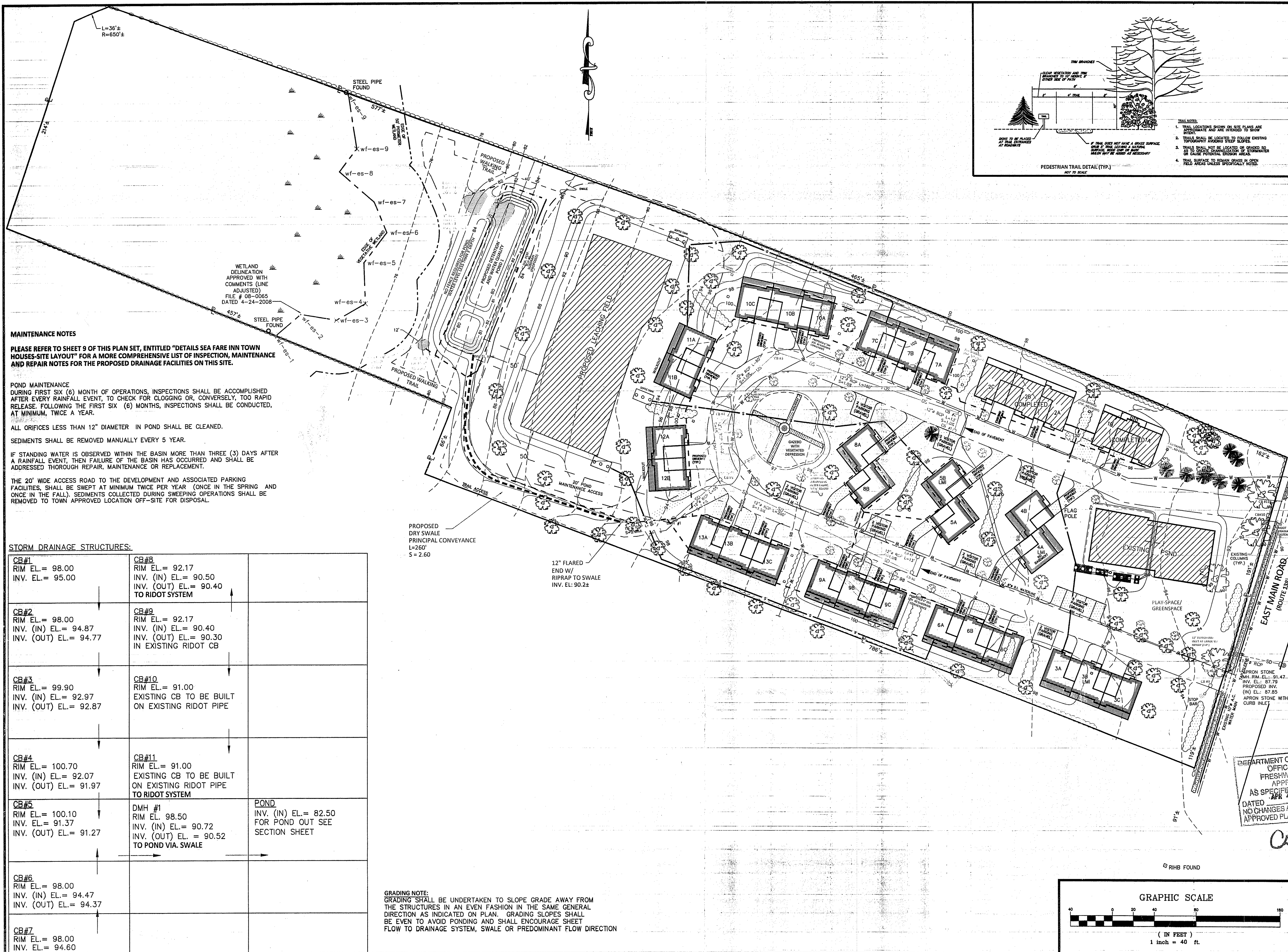
(PER RIDEM HYDROLOGIC AND HYDRAULIC MODELING GUIDANCE, 11.16.07)

LOCATION OF SUBSURFACE UTILITIES REPRODUCED FROM FIELD SURVEY AND BEST AVAILABLE INFORMATION. CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION.
G SAFE TEL.#: 1-800-344-7233 (1-800-DIG-SAFE).



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 21, 2014 FILE # 10-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hingorany



MAINTENANCE NOTES

PLEASE REFER TO SHEET 9 OF THIS PLAN SET, ENTITLED "DETAILS SEA FARE INN TOWN HOUSES-SITE LAYOUT" FOR A MORE COMPREHENSIVE LIST OF INSPECTION, MAINTENANCE AND REPAIR NOTES FOR THE PROPOSED DRAINAGE FACILITIES ON THIS SITE.

POND MAINTENANCE
 DURING FIRST SIX (6) MONTHS OF OPERATIONS, INSPECTIONS SHALL BE ACCOMPLISHED AFTER EVERY RAINFALL EVENT, TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE A YEAR.

ALL ORIFICES LESS THAN 12" DIAMETER IN POND SHALL BE CLEANED.

SEDIMENTS SHALL BE REMOVED MANUALLY EVERY 5 YEAR.

IF STANDING WATER IS OBSERVED WITHIN THE BASIN MORE THAN THREE (3) DAYS AFTER A RAINFALL EVENT, THEN FAILURE OF THE BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR, MAINTENANCE OR REPLACEMENT.

THE 20' WIDE ACCESS ROAD TO THE DEVELOPMENT AND ASSOCIATED PARKING FACILITIES, SHALL BE SWEEPED AT MINIMUM TWICE PER YEAR (ONCE IN THE SPRING AND ONCE IN THE FALL). SEDIMENTS COLLECTED DURING SWEEPING OPERATIONS SHALL BE REMOVED TO TOWN APPROVED LOCATION OFF-SITE FOR DISPOSAL.

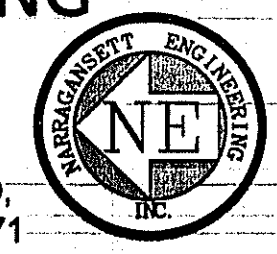
STORM DRAINAGE STRUCTURES:

CB#1 RIM EL. = 98.00 INV. EL. = 95.00	CB#8 RIM EL. = 92.17 INV. (IN) EL. = 90.50 INV. (OUT) EL. = 90.40 TO RIDOT SYSTEM	
CB#2 RIM EL. = 98.00 INV. (IN) EL. = 94.87 INV. (OUT) EL. = 94.77	CB#9 RIM EL. = 92.17 INV. (IN) EL. = 90.40 INV. (OUT) EL. = 90.30 IN EXISTING RIDOT CB	
CB#3 RIM EL. = 99.90 INV. (IN) EL. = 92.97 INV. (OUT) EL. = 92.87	CB#10 RIM EL. = 91.00 EXISTING CB TO BE BUILT ON EXISTING RIDOT PIPE	
CB#4 RIM EL. = 100.70 INV. (IN) EL. = 92.07 INV. (OUT) EL. = 91.97	CB#11 RIM EL. = 91.00 EXISTING CB TO BE BUILT ON EXISTING RIDOT PIPE TO RIDOT SYSTEM	
CB#5 RIM EL. = 100.10 INV. EL. = 91.37 INV. (OUT) EL. = 91.27	DMH #1 RIM EL. 98.50 INV. (IN) EL. = 90.72 INV. (OUT) EL. = 90.52 TO POND VIA SWALE	POND INV. (IN) EL. = 82.50 FOR POND OUT SEE SECTION SHEET
CB#6 RIM EL. = 98.00 INV. (IN) EL. = 94.47 INV. (OUT) EL. = 94.37		
CB#7 RIM EL. = 98.00 INV. EL. = 94.60		

GRADING NOTE:
 GRADING SHALL BE UNDERTAKEN TO SLOPE GRADE AWAY FROM THE STRUCTURES IN AN EVEN FASHION IN THE SAME GENERAL DIRECTION AS INDICATED ON PLAN. GRADING SLOPES SHALL BE EVEN TO AVOID PONDING AND SHALL ENCOURAGE SHEET FLOW TO DRAINAGE SYSTEM, SWALE OR PREDOMINANT FLOW DIRECTION

NARRAGANSETT ENGINEERING INC.

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SHEET TITLE

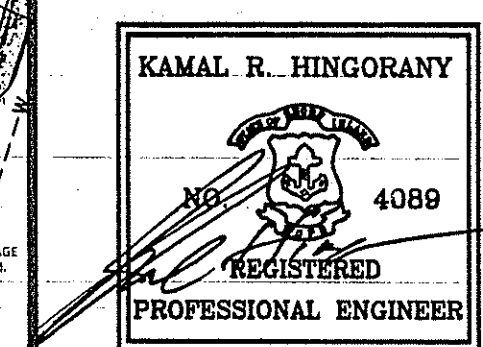
**PROPOSED CONDITIONS
 SEA FARE INN
 SITE LAYOUT**

TOWN HOUSES

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH, RI 02871

LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

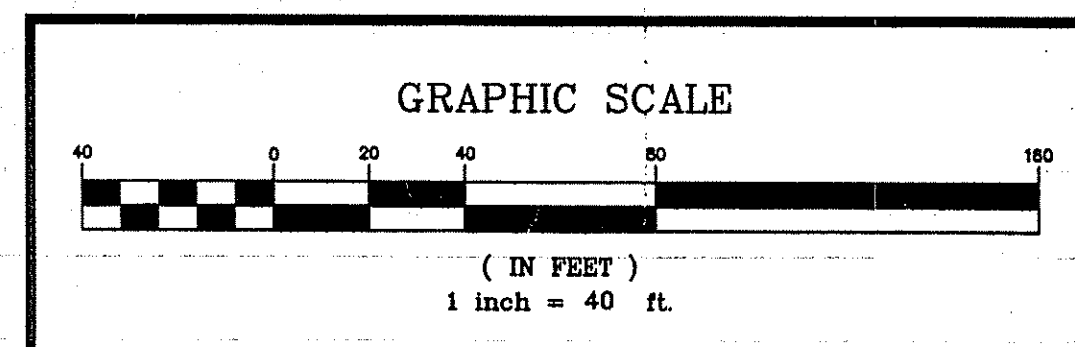


PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM	NKH
		REVIEW	

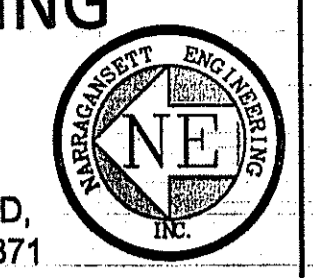
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 24 2014 FILE # 10-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hingorany



**PROPOSED SITE LAYOUT
 (MASTER)**

SHEET 2 SCALE 1"=40'

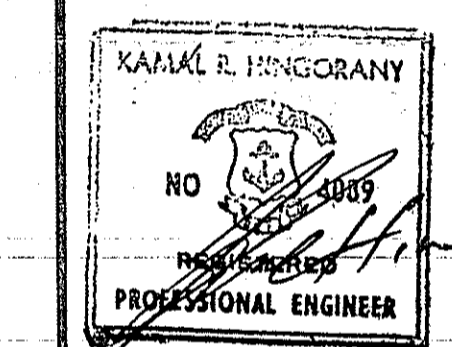


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PROPOSED DRIVEWAY PROFILE
TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871
 LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

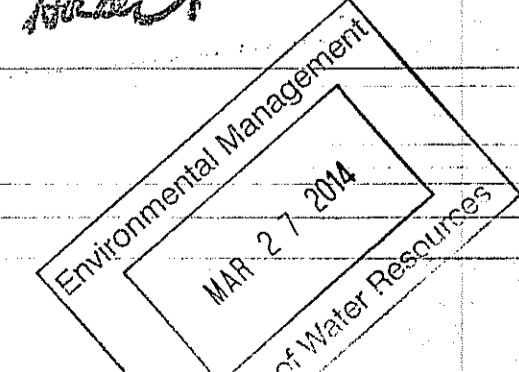
PLAT: 24 LOT: 17



PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

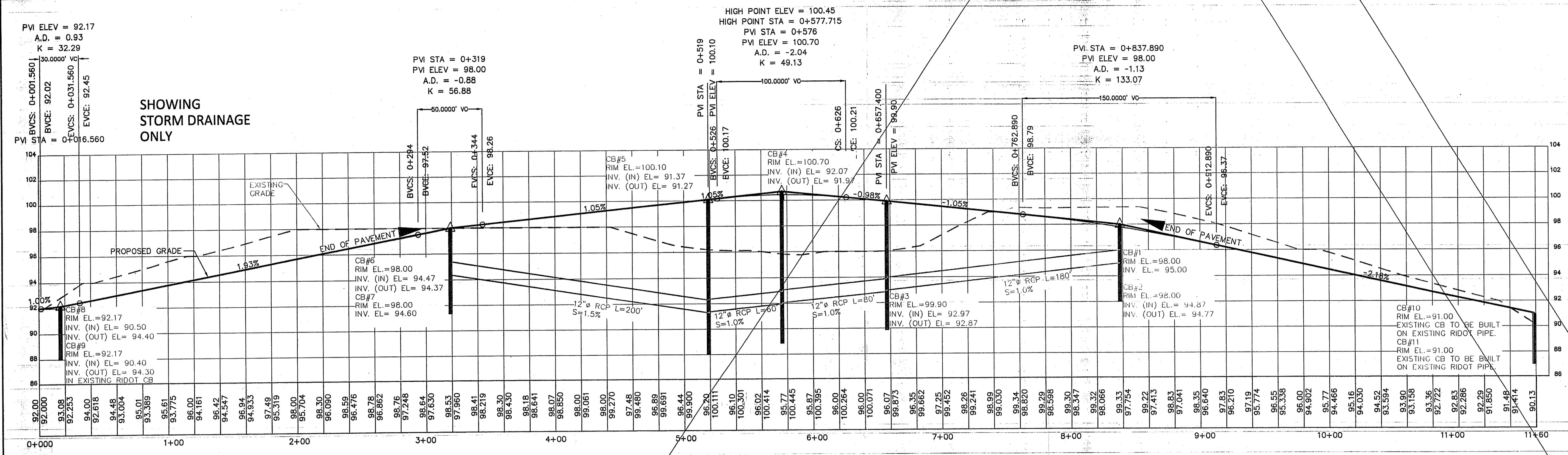
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DEPARTMENT OF ENVIRONMENTAL PLANNING & CONSTRUCTION
 OFFICE OF WATER RESOURCES
 FRESH WATER PERMITTING
 APPROVED WITH COMMENTS AS SPECIFIED IN THE LETTER DATED 10-02-14
 FILE # 10-021
 24 2014
 ALLOWED WITHOUT FURTHER REVIEW
 APPROVED PER [Signature]
 COMMENTS MUST BE AT CONSTRUCTION

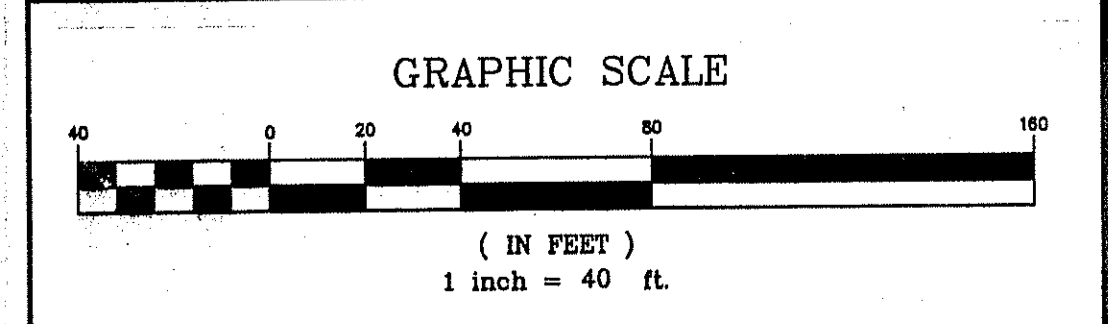
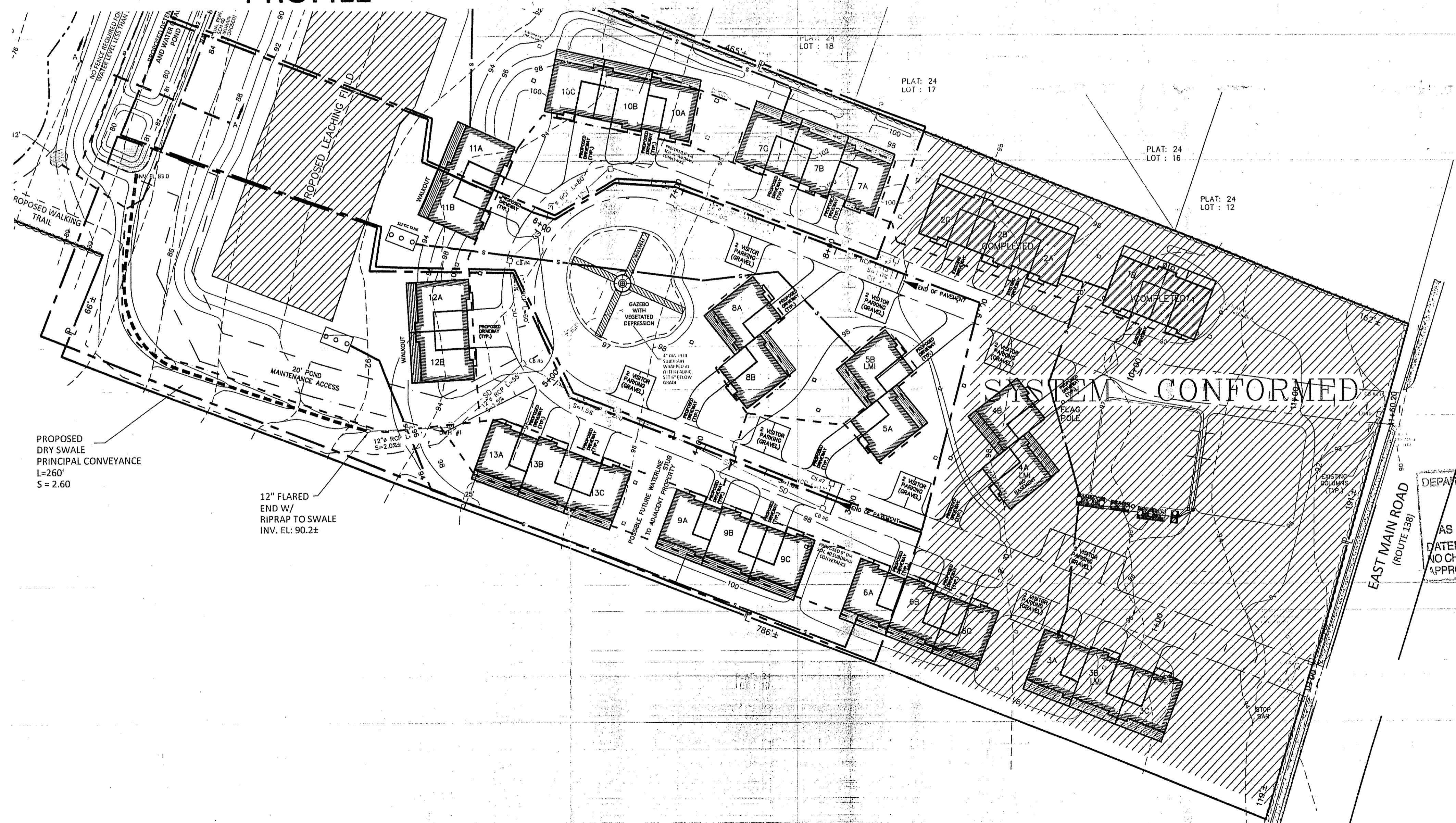


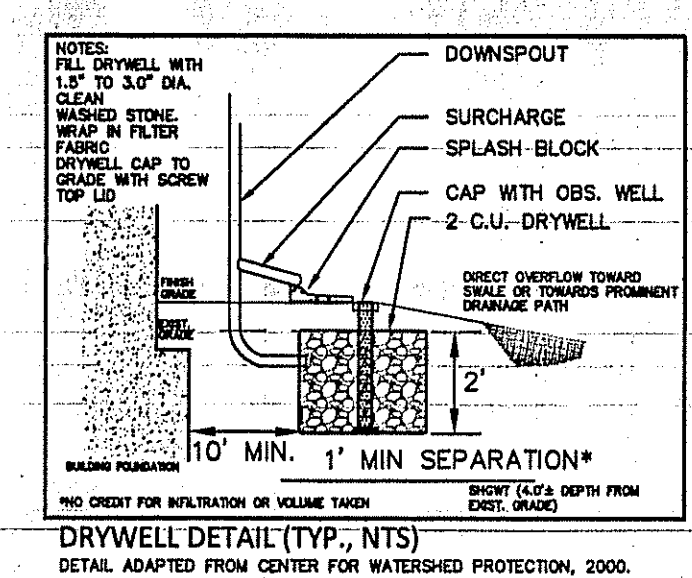
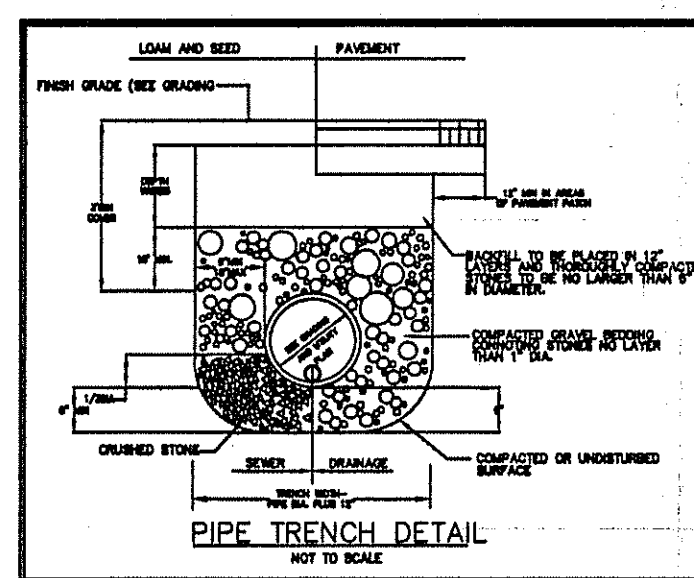
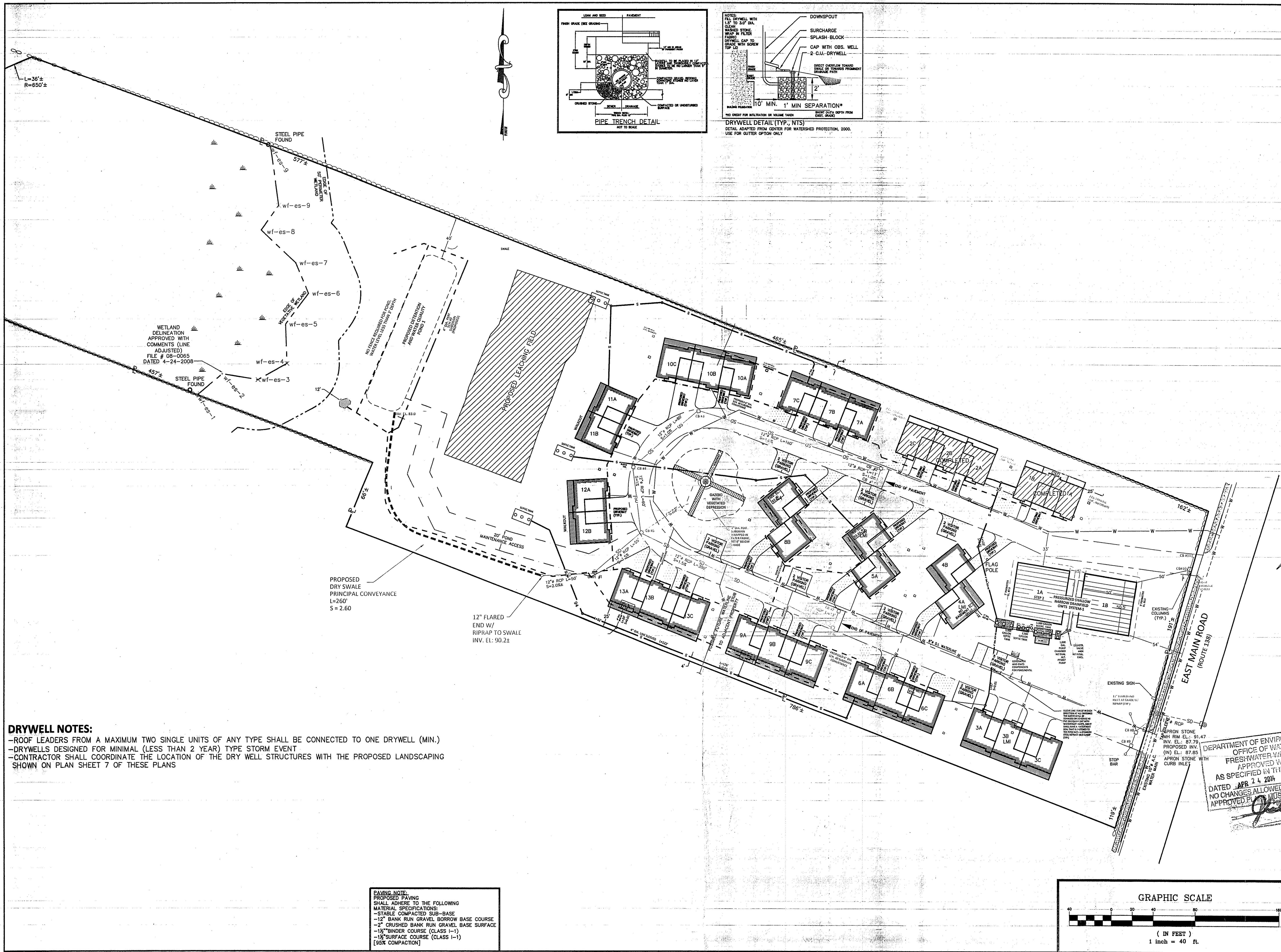
DRIVEWAY PROFILE

SHEET	SCALE
3	1"=40'



DRIVEWAY PROFILE
 PROFILE SCALE
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=4'



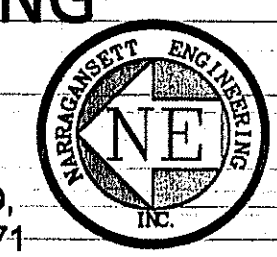


WETLAND DELINEATION APPROVED WITH COMMENTS (LINE ADJUSTED) FILE # DB-0065 DATED 4-24-2008

PAVING NOTE:
 PROPOSED PAVING SHALL ADHERE TO THE FOLLOWING MATERIAL SPECIFICATIONS:
 -STABLE COMPACTED SUB-BASE
 -12" BANK RUN GRAVEL BORROW BASE COURSE
 -2" CRUSHED BANK RUN GRAVEL BASE SURFACE
 -1 1/2" BINDER COURSE (CLASS 1-1)
 -1 1/2" SURFACE COURSE (CLASS 1-1)
 [95% COMPACTION]

DRYWELL NOTES:
 -ROOF LEADERS FROM A MAXIMUM TWO SINGLE UNITS OF ANY TYPE SHALL BE CONNECTED TO ONE DRYWELL (MIN.)
 -DRYWELLS DESIGNED FOR MINIMAL (LESS THAN 2 YEAR) TYPE STORM EVENT
 -CONTRACTOR SHALL COORDINATE THE LOCATION OF THE DRY WELL STRUCTURES WITH THE PROPOSED LANDSCAPING SHOWN ON PLAN SHEET 7 OF THESE PLANS

NARRAGANSETT ENGINEERING INC.
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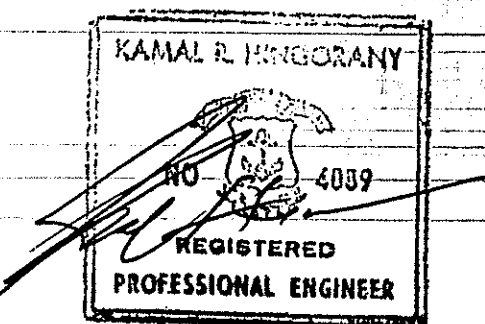


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SHEET TITLE
UTILITY PLAN
SEA FARE INN
TOWN HOUSES -
UTILITY LAYOUT PLAN

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871
 LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

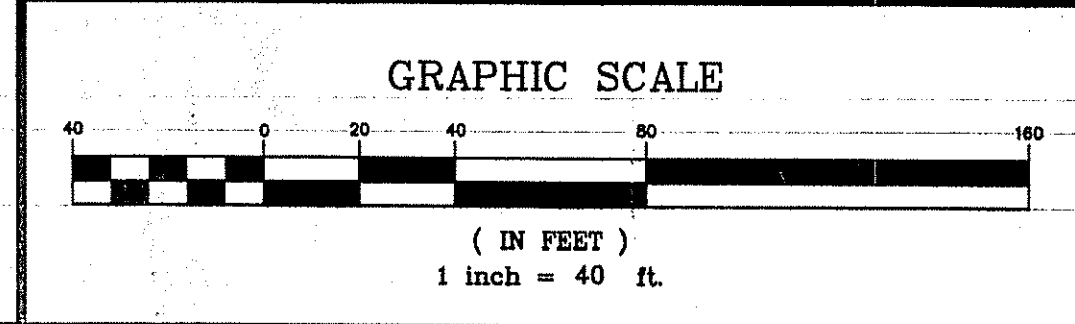


PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

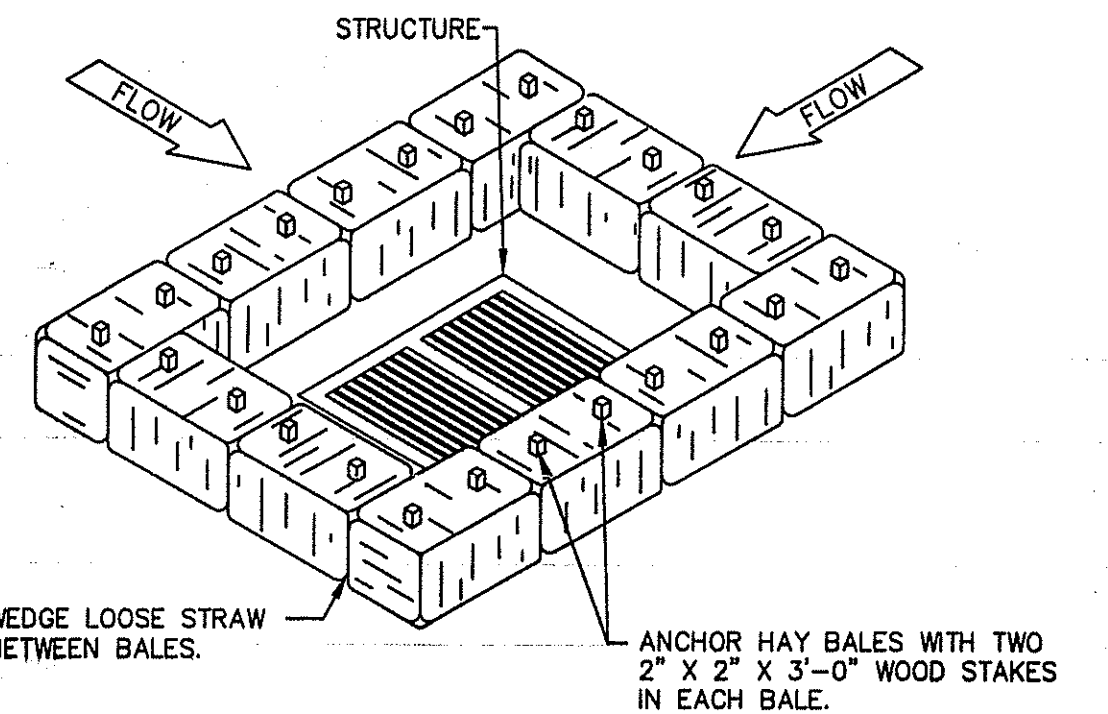
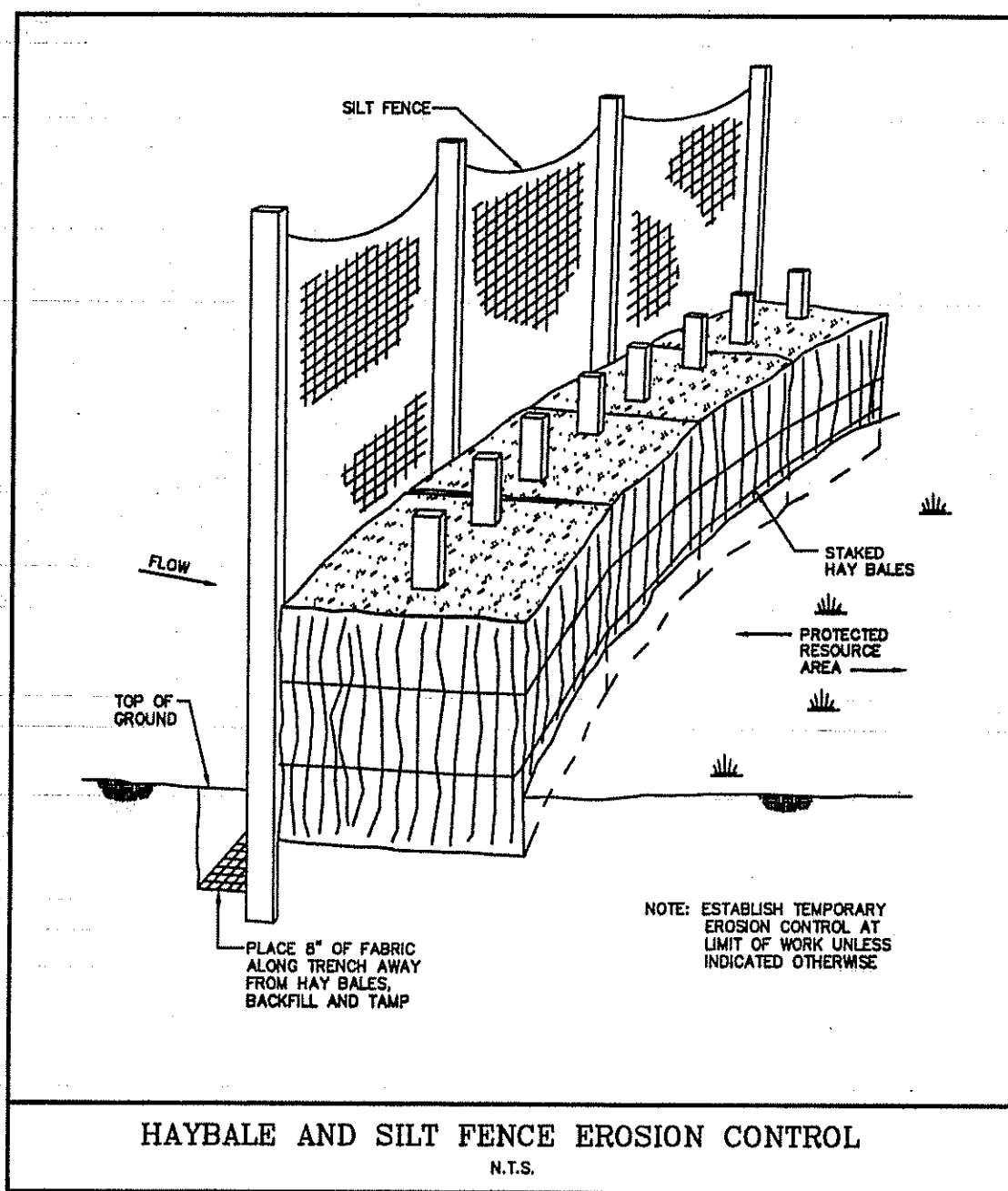
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WELLS
 APPROVED WITH COMMENTS
 AS SPECIFIED IN THE LEGEND
 DATED APR 24 2014
 NO CHANGES ALLOWED WITHOUT APPROVAL OF THE DEPARTMENT
 APPROVED PLANS MUST BE USED FOR CONSTRUCTION

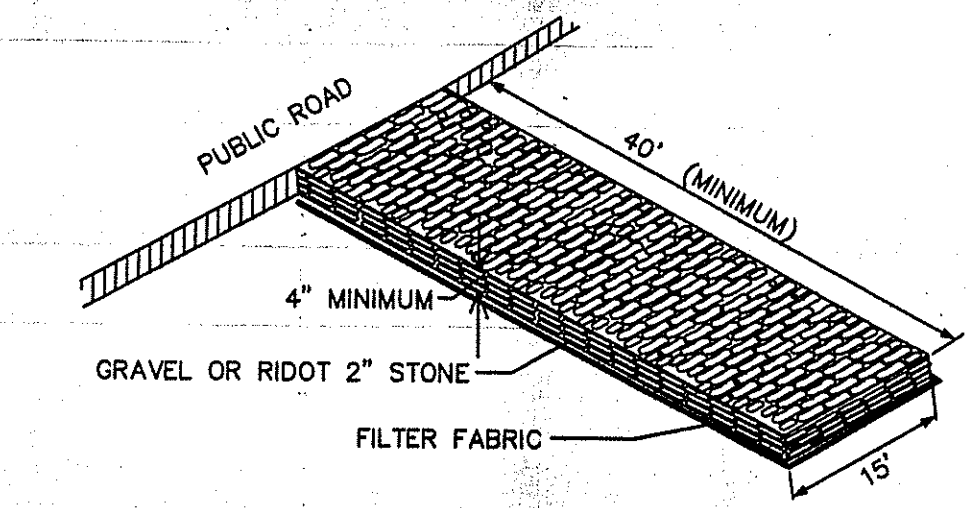
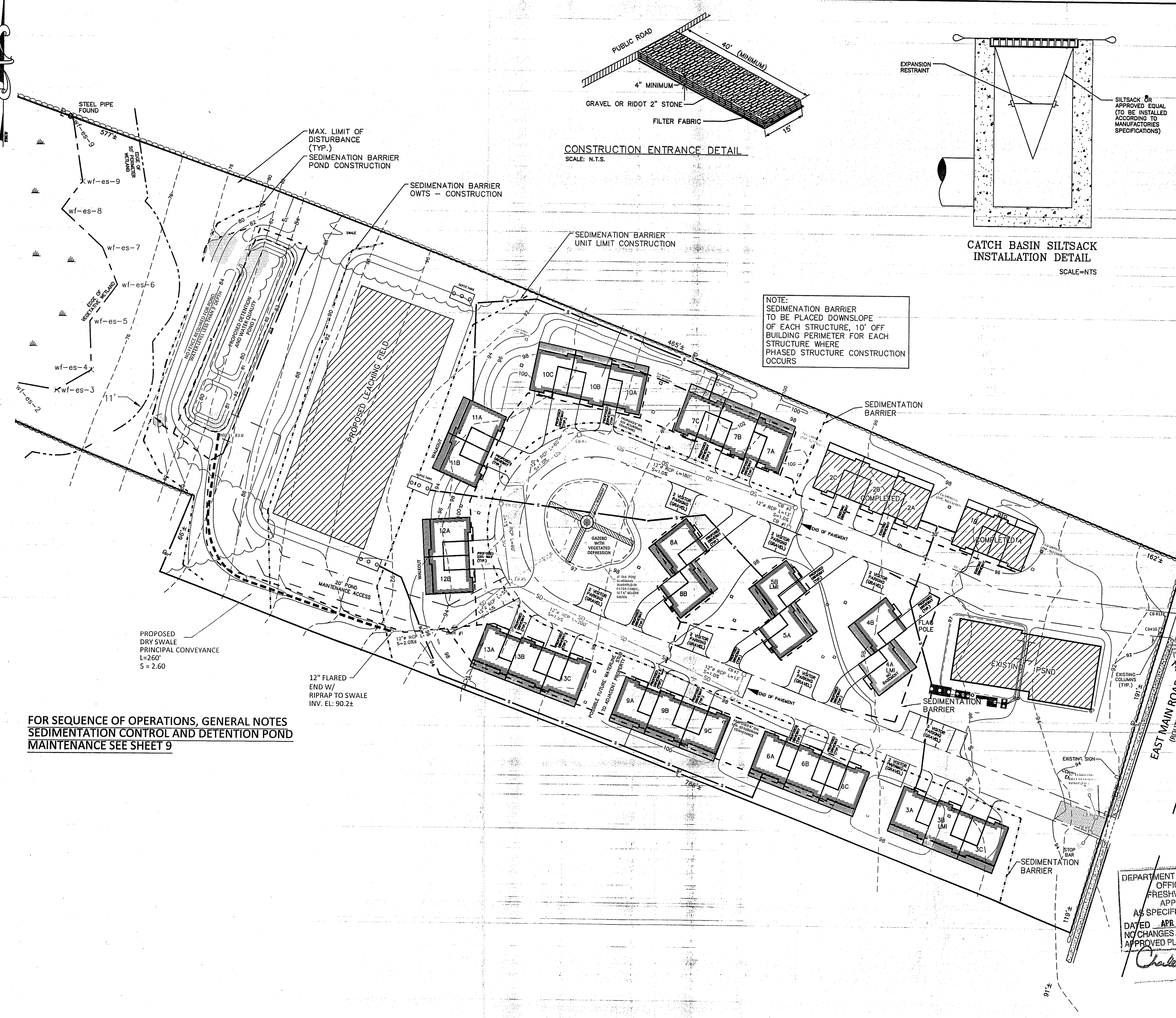
Environmental Management
 APR 27 2014
 Office of Water Resources



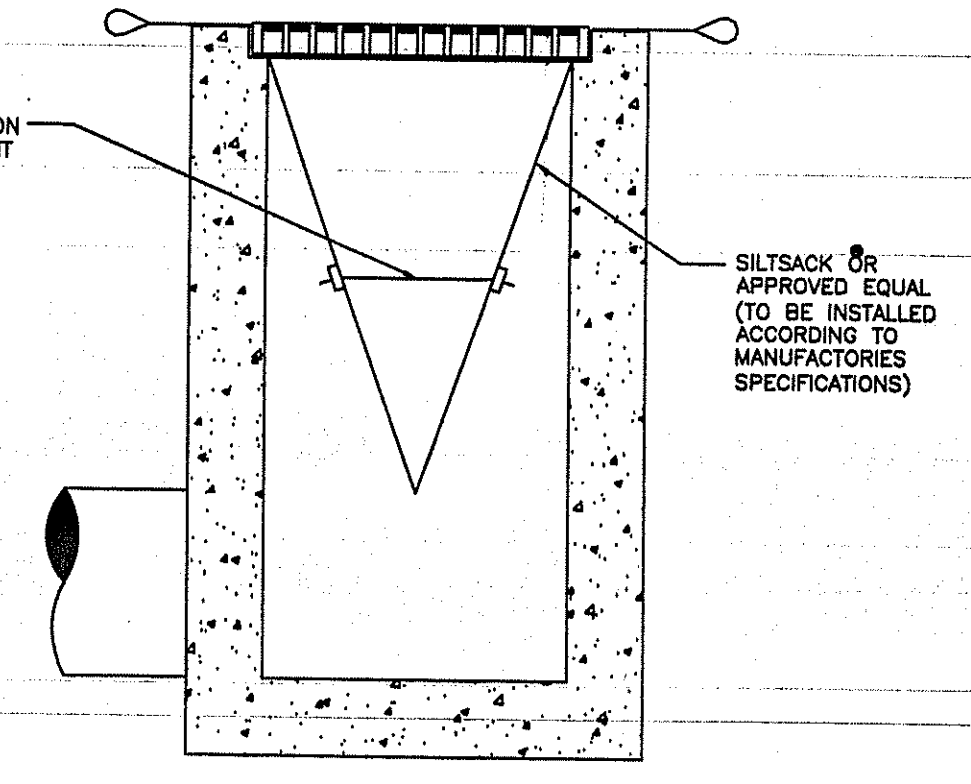
UTILITY PLAN
 SHEET 4 SCALE 1" = 40'



NOTES:
CATCH BASINS ON SLOPING ROADS SHOULD NOT BE RINGED. ON SLOPING ROADS HAY BALES SHOULD BE PLACED UP SLOPE OF THE BASINS TO CONTAIN FLOWS. REFER TO THE HAY BALE DETAIL FOR DRAINAGE CHANNEL PROTECTION TO BE USED AT SLOPING ROADWAY GUTTERS PRIOR TO PAVEMENT INSTALLATION.



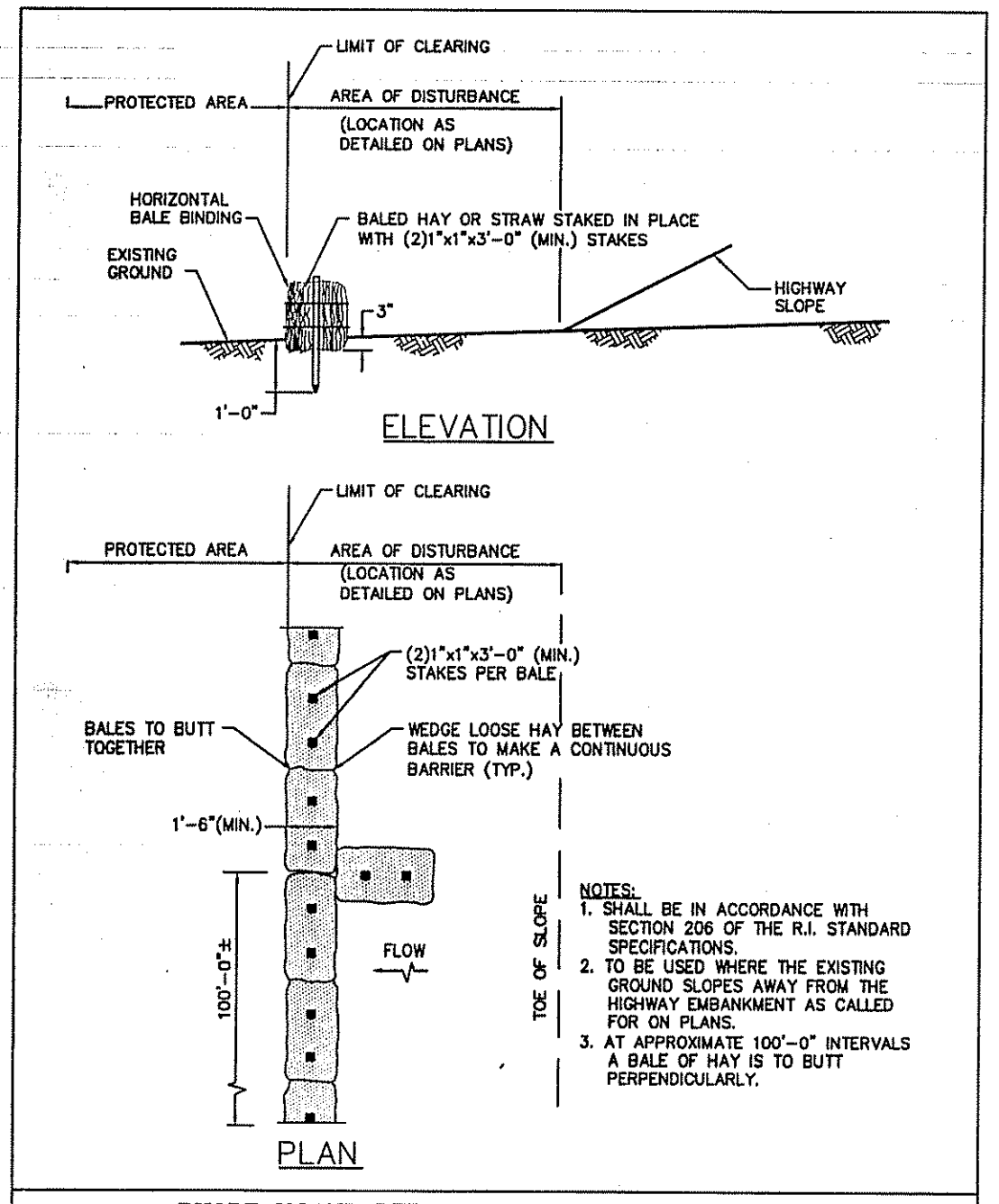
CONSTRUCTION ENTRANCE DETAIL
SCALE: N.T.S.



CATCH BASIN SILTSACK
INSTALLATION DETAIL
SCALE=NTS

NOTE:
SEDIMENTATION BARRIER TO BE PLACED DOWNSLOPE OF EACH STRUCTURE, 10' OFF BUILDING PERIMETER FOR EACH STRUCTURE WHERE PHASED STRUCTURE CONSTRUCTION OCCURS

FOR SEQUENCE OF OPERATIONS, GENERAL NOTES
SEDIMENTATION CONTROL AND DETENTION POND
MAINTENANCE SEE SHEET 9



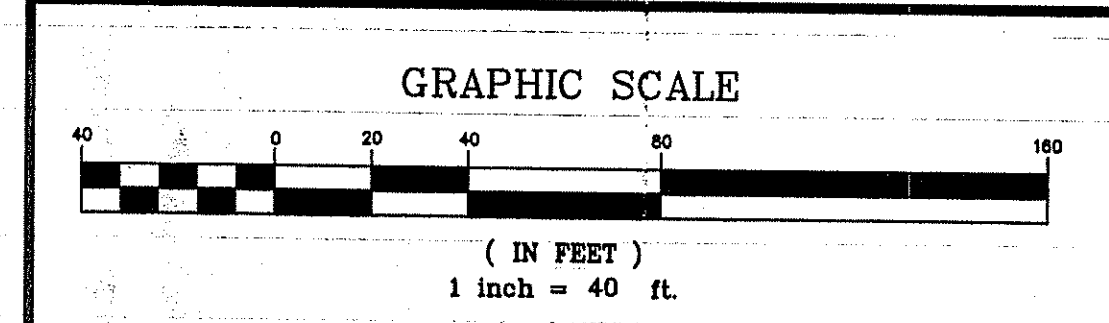
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO.	BY	DATE

BALED HAY EROSION CHECK

APPROVED: [Signature] JUN 15, 1998

STANDARD 9.1.0



NARRAGANSETT ENGINEERING INC.
 MAIN OFFICE:
 3102 EAST MAIN ROAD,
 PORTSMOUTH, RI 02871
 TEL : (401) 683-6630



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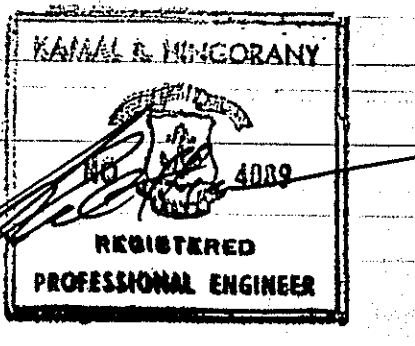
SHEET TITLE
EROSION CONTROL PLAN
SEA FARE INN

TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871

LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

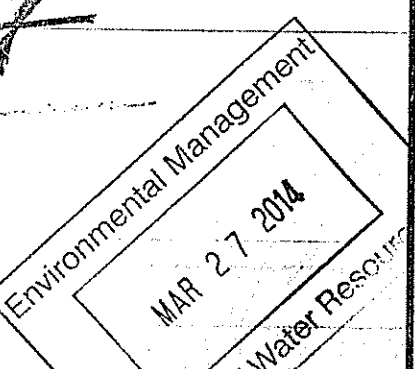


PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

REVISIONS			
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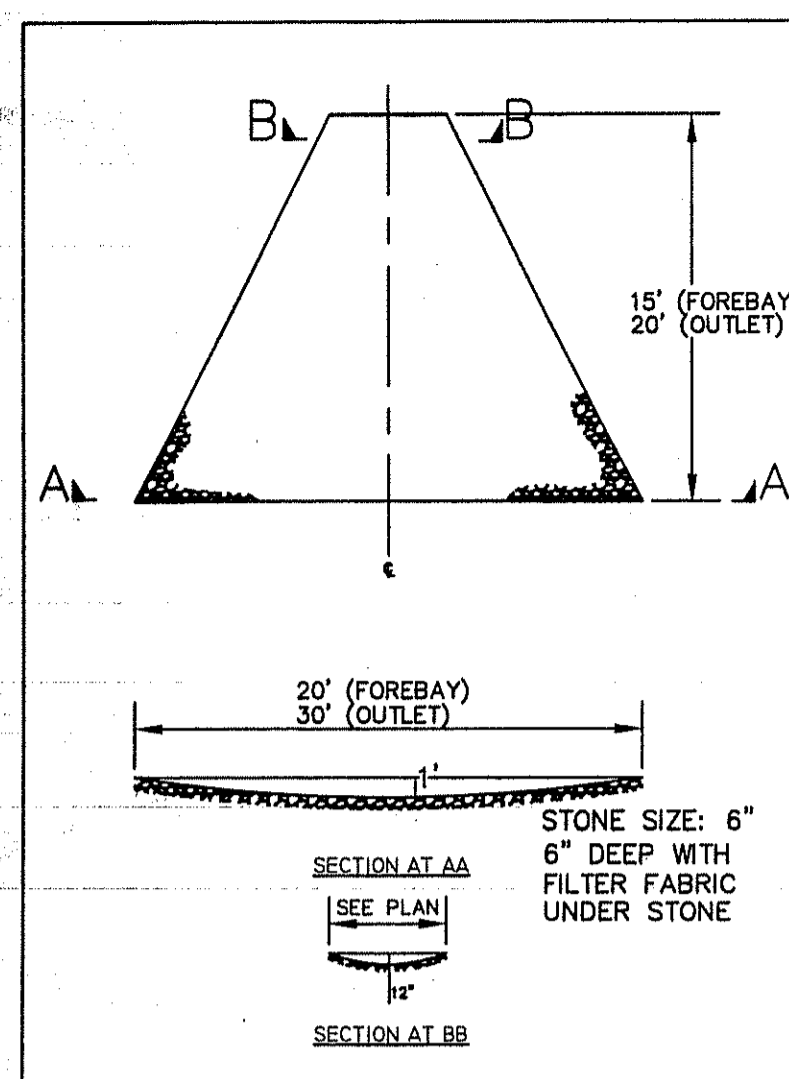
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 1, 2011 FILE # 18-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Harbeck



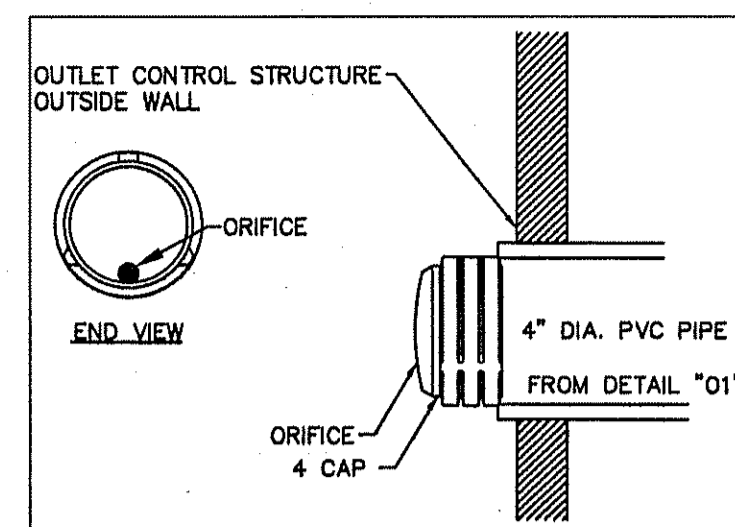
SEDIMENTATION AND EROSION CONTROL

SHEET	SCALE
5	1"=40'

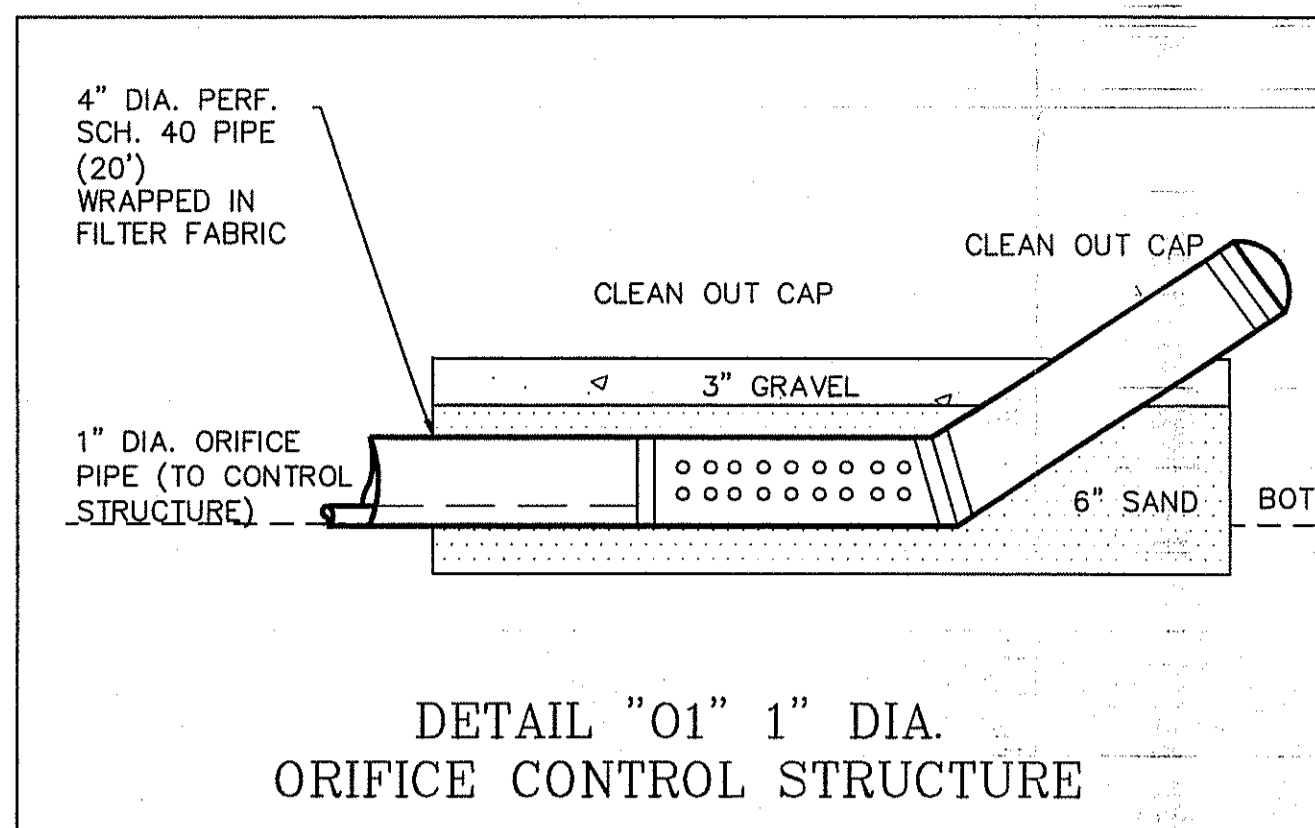


RIP RAP DETAIL - CLASS A

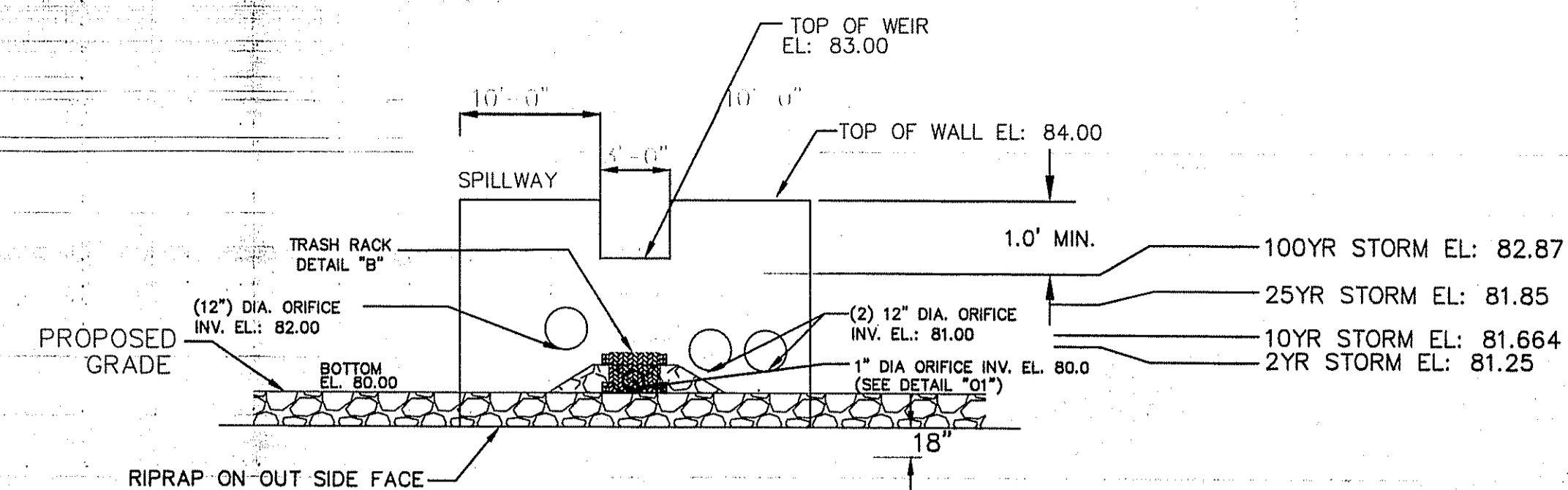
MINIMUM RIPRAP REQUIREMENTS AS PER RIPRAP CALCULATIONS. RIPRAP AREA SHOWN ON PLANS DEPICTS RECOMMENDED RIPRAP AREAS.



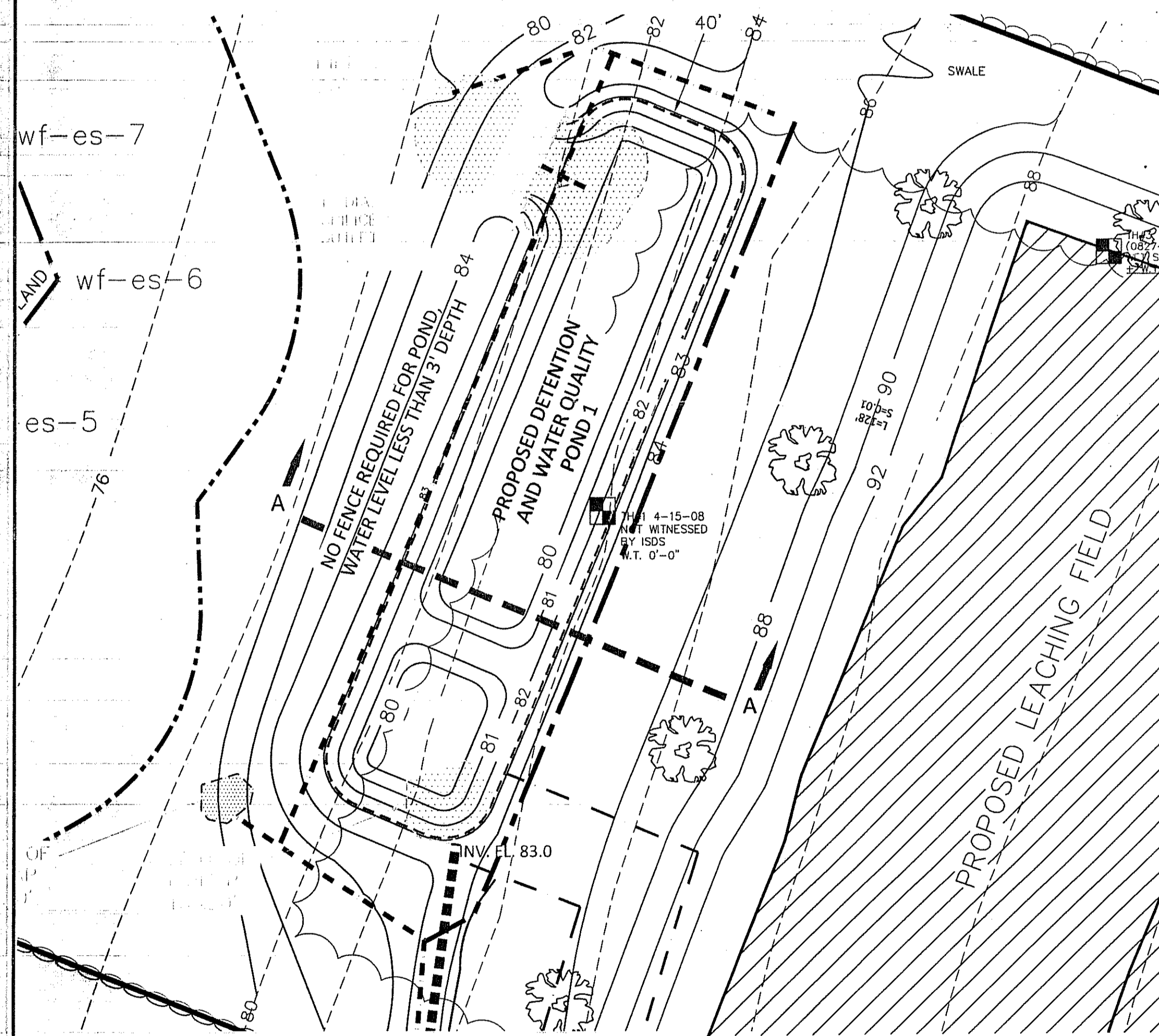
WATER QUALITY ORIFICE DETAIL



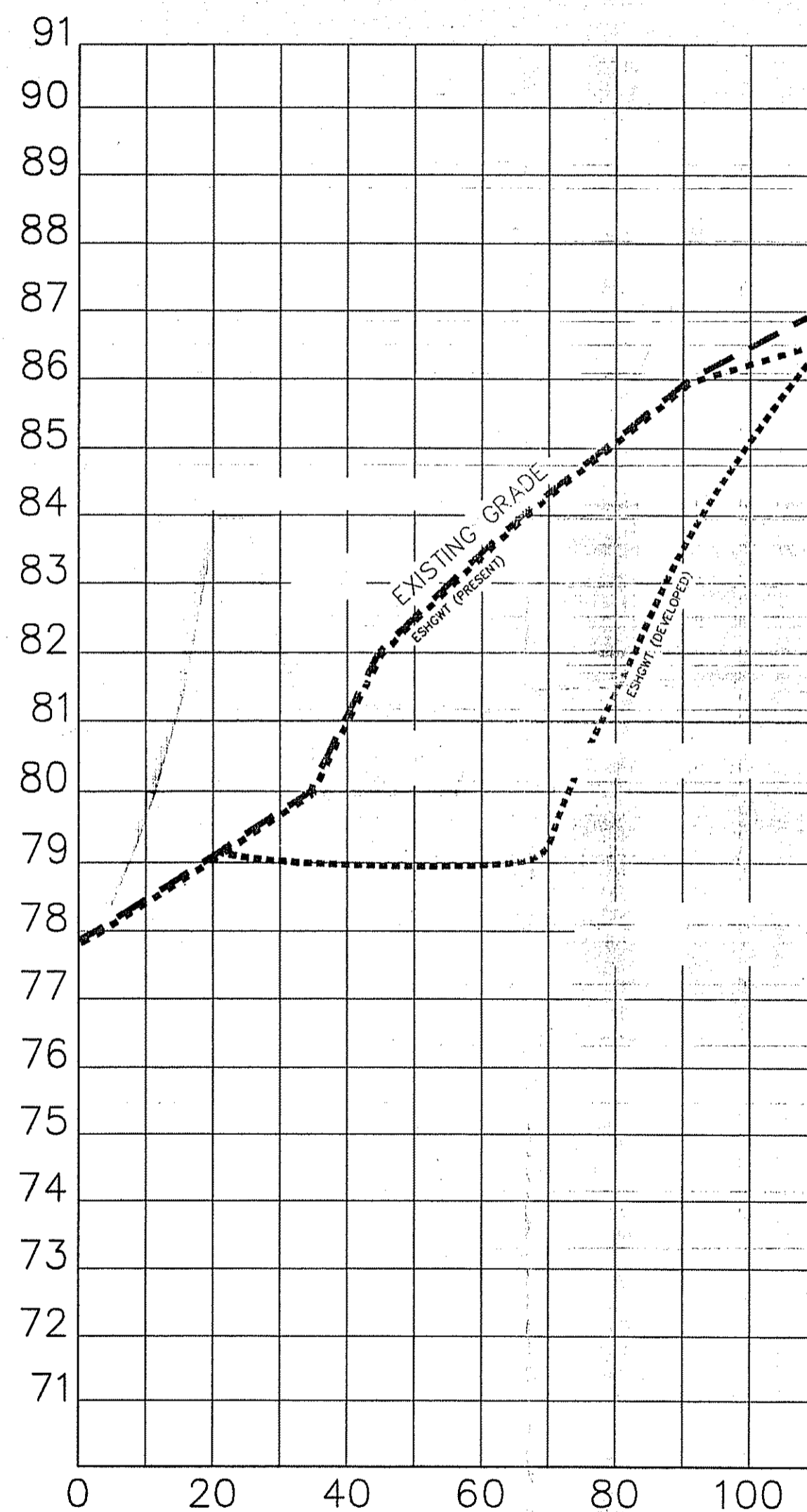
DETAIL "01" 1" DIA. ORIFICE CONTROL STRUCTURE



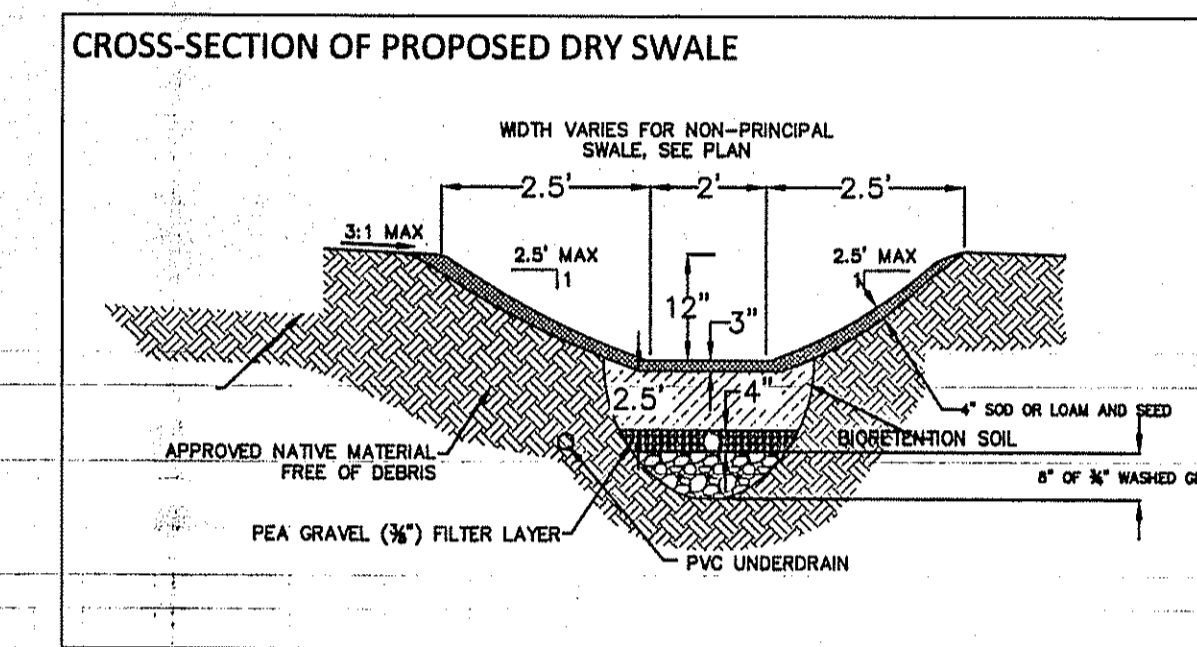
ELEVATION CONTROL STRUCTURE DETAIL DETENTION POND #1



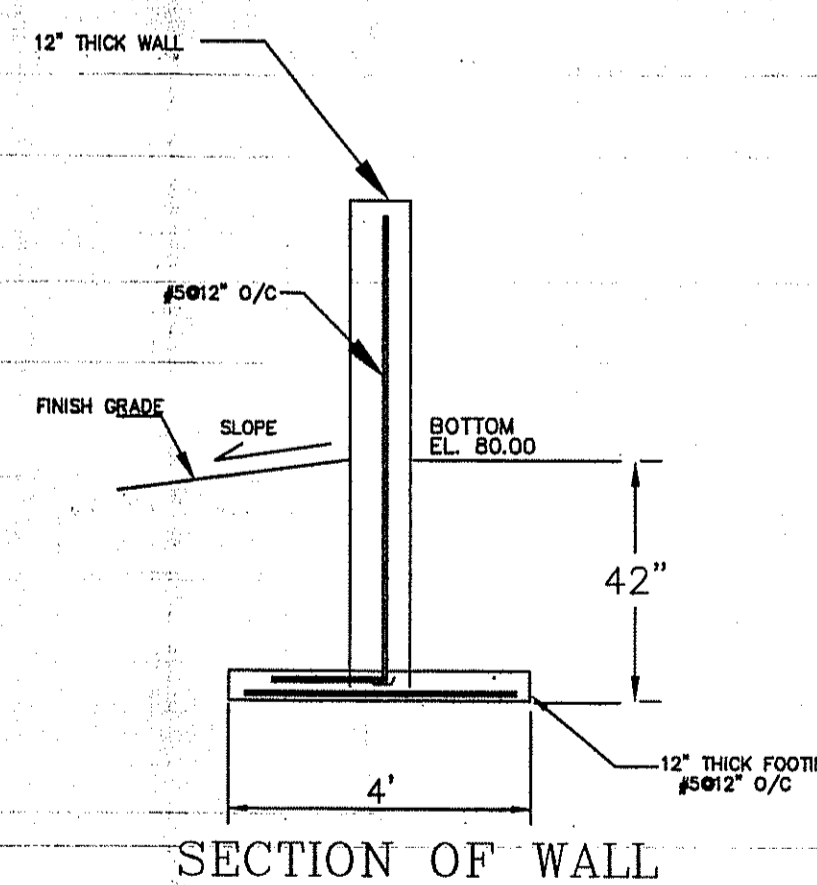
POND DETAIL SCALE: 1"=20'



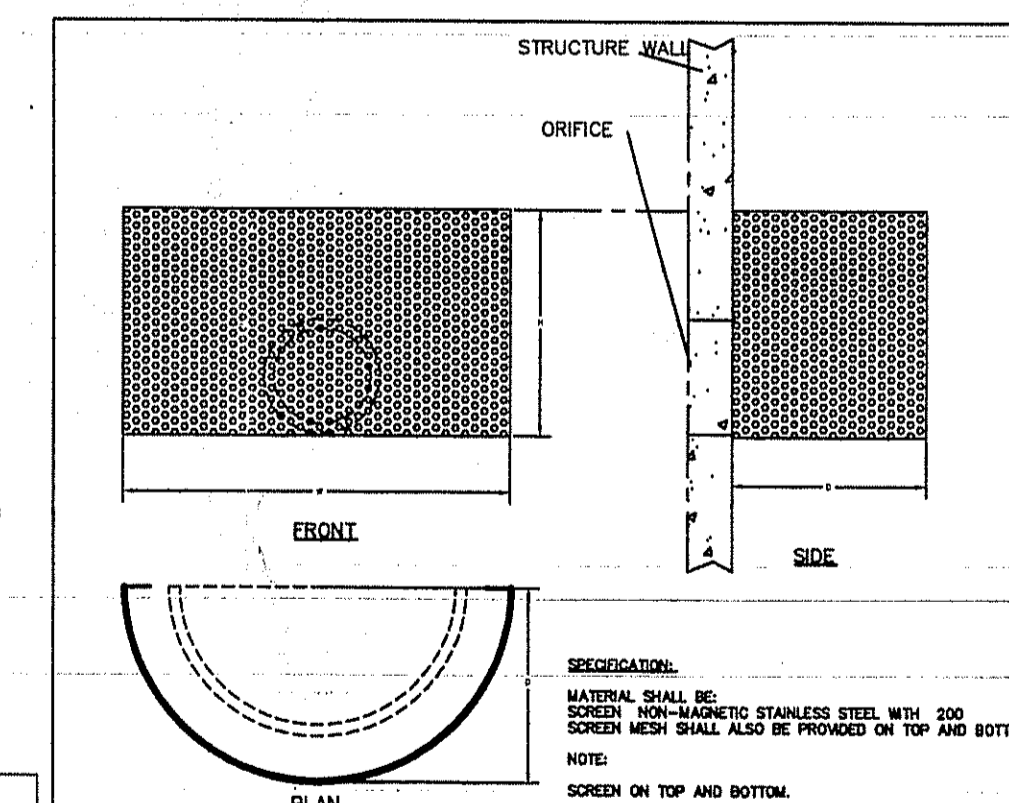
POND #1 SECTION A-A SCALE HORIZONTAL: 1"=10' VERTICAL: 1"= 1'



- A. THE SWALES SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON TO PREVENT ESTABLISHMENT OF WOODY GROWTH, ETC.
- B. GRASS VEGETATION SHALL NOT BE CUT SHORTER THAN (4) FOUR INCHES.
- C. BARE SPOTS AND ERODED AREAS WITHIN THE SWALE SHALL BE RESEEDED IMMEDIATELY FOLLOWING OBSERVATION.
- D. SWALE SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS. ALL TRASH AND OTHER LITTER SHALL BE REMOVED DURING INSPECTIONS.
- E. SEDIMENTS SHALL BE REMOVED FROM THE SWALES AT LEAST ONCE PER YEAR, OR MORE FREQUENTLY IF SEDIMENTS ARE OVER-TOPPING CHECK DAMS.
- F. ACCUMULATED SEDIMENTS IN SWALES SHALL BE REMOVED MANUALLY TO PREVENT DAMAGE TO SWALE.
- G. ALL PRINCIPAL SWALES ARE DESIGNED FOR 100 YEAR STORM WHILE SELECTED MINOR SWALES ARE DESIGNED FOR 25 YEAR STORM EVENTS.



SECTION OF WALL



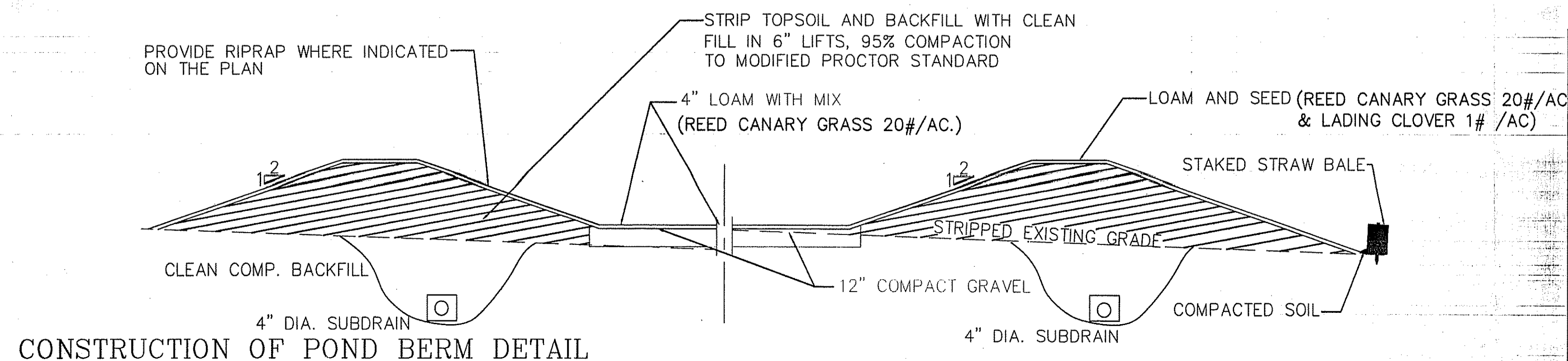
DETAIL "B"

TRASHSCREEN DIMENSIONS			
SIZE	H	W	O/C
18'	21"	28'	14' 5"

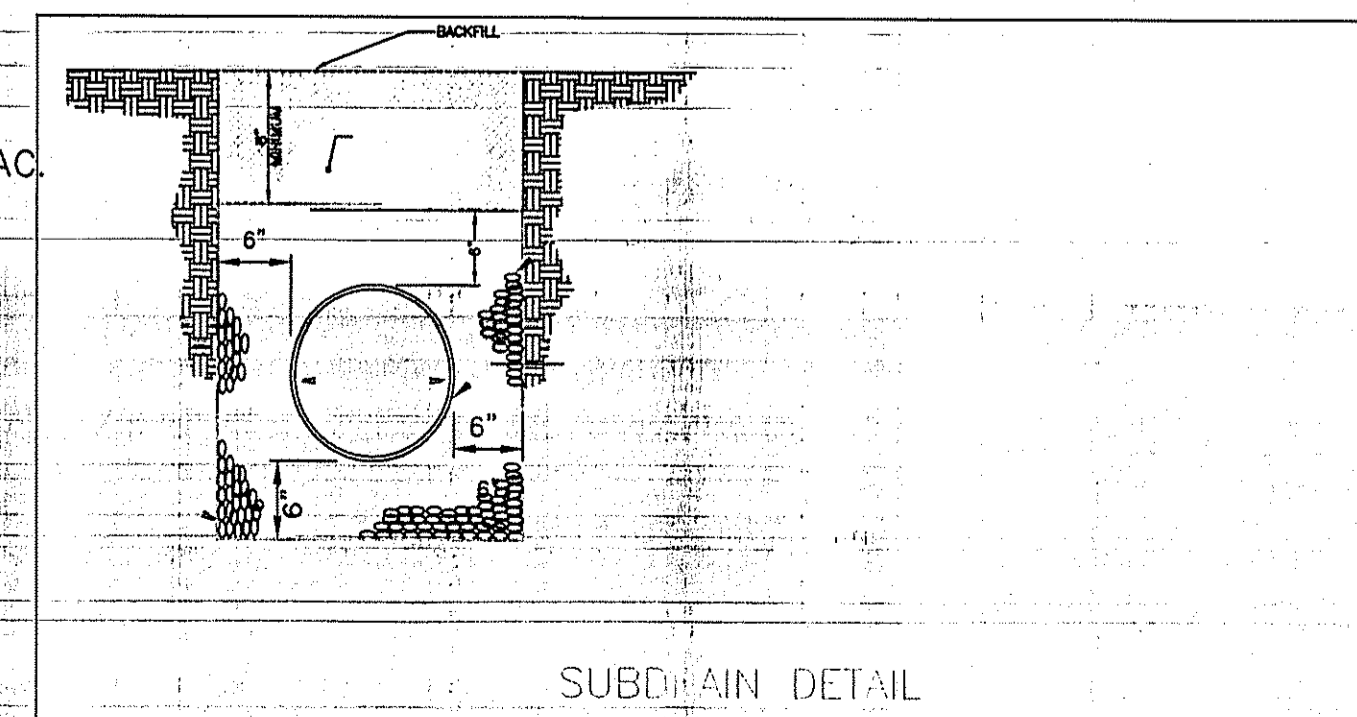
H= HEIGHT
W= WIDTH
O= DEPTH
C= CLEARANCE FROM BOTTOM OF SCREEN

BMP, INC.
63 MT. ARCHER ROAD, LYME, CT 06371
(860) 584-0055 FAX: (860) 584-3195

DESCRIPTION: TRASHSCREEN DIMENSIONS & SPECIFICATION
DATE: 8-30-08
SCALE: NONE
BY: [Signature]

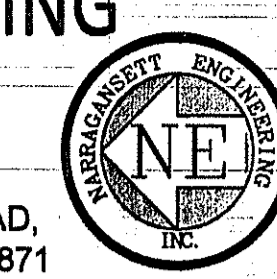


CONSTRUCTION OF POND BERM DETAIL



SUBDRAIN DETAIL

NARRAGANSETT ENGINEERING INC.
MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630



www.nei-cds.com

SHEET TITLE

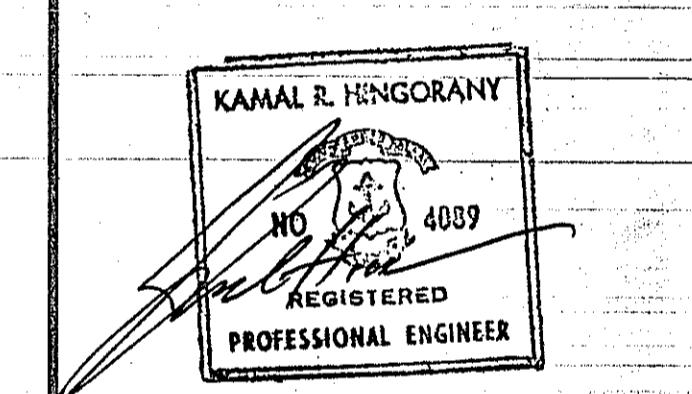
POND DETAILS

TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/ APPLICANT
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION
3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11



PROJECT #	DATE	DRAWN	CHECK
060203	12-15-10	NKH	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY

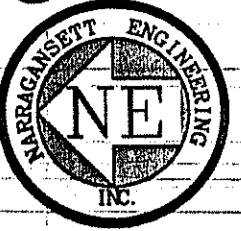
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER
DATE: 2-1-2011 FILE # 10-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

Charles A. Hingorany

Environmental Management
MAR 27 2014
Office of Water Resources

SHEET	SCALE
6	NTS

NARRAGANSETT ENGINEERING INC.



MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630

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SHEET TITLE

MASTER SITE LAYOUT

PROJECT OWNER/ APPLICANT

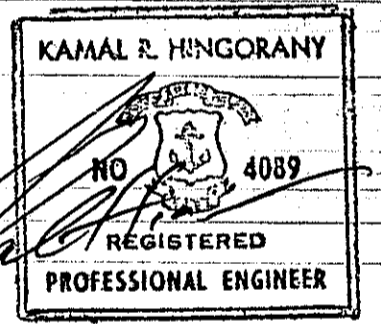
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION

3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24

LOT: 11

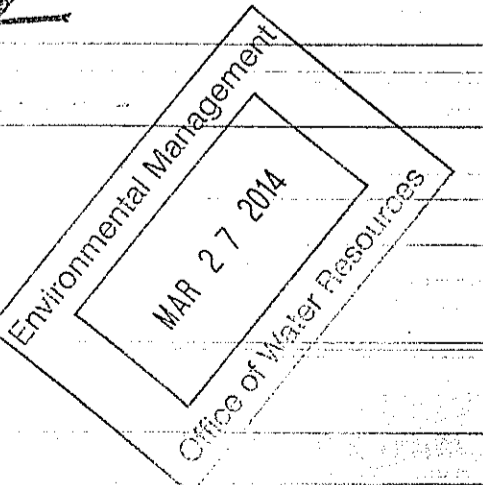


PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY

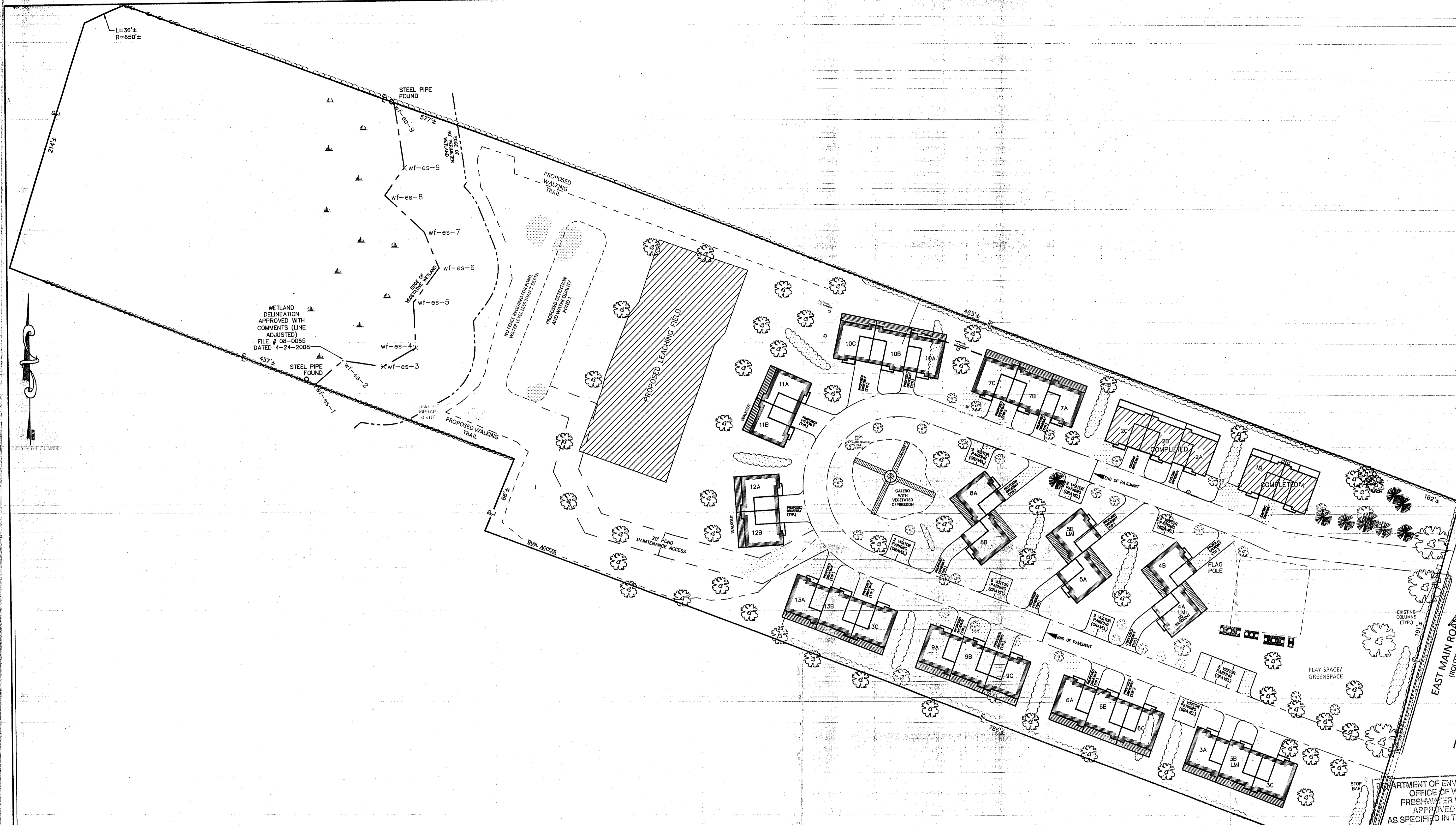
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER SET
DATED APR 11 2014
FILE # 10-0241
NO CHANGES ALLOWED WITHOUT APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

Charles A. Haver



BASIC TREE / LANDSCAPE PLAN

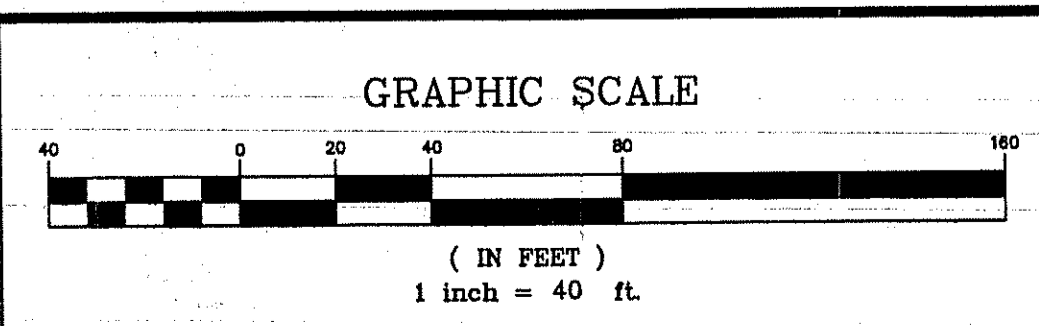
SHEET	SCALE
7	1"=40'



LEGEND:

- EXISTING TREE (REMAIN)
- PROP. TREE (SAPLING)
- EXISTING TREE (TO BE RELOCATED OR REMOVED)
- PROPOSED TREE (IN DEPRESSION)
- PROPOSED SHRUB, SCREENING VEGETATION

NOTES:
-EXISTING TREES LESS THAN 12" CALIPER MAY BE MOVED ON SITE OR STORED TEMPORALLY DURING CONSTRUCTION.
-DETAILED LANDSCAPING WILL BE PREPARED PRIOR TO CONSTRUCTION, THIS PLAN IS FOR GENERAL CONCEPT ONLY





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PORTSMOUTH, RI 02871
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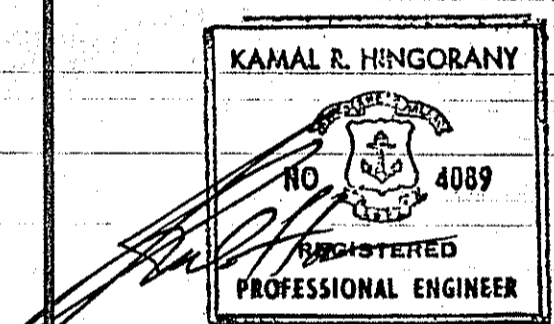
SHEET TITLE

**DETAILS
SEA FARE INN**

**TOWN HOUSES -
SITE LAYOUT**

PROJECT OWNER/ APPLICANT
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871
LOCATION
3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

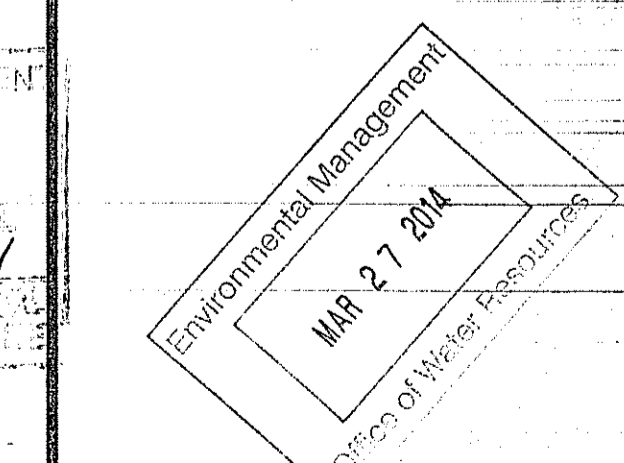
PLAT: 24 LOT: 11



PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	_KH

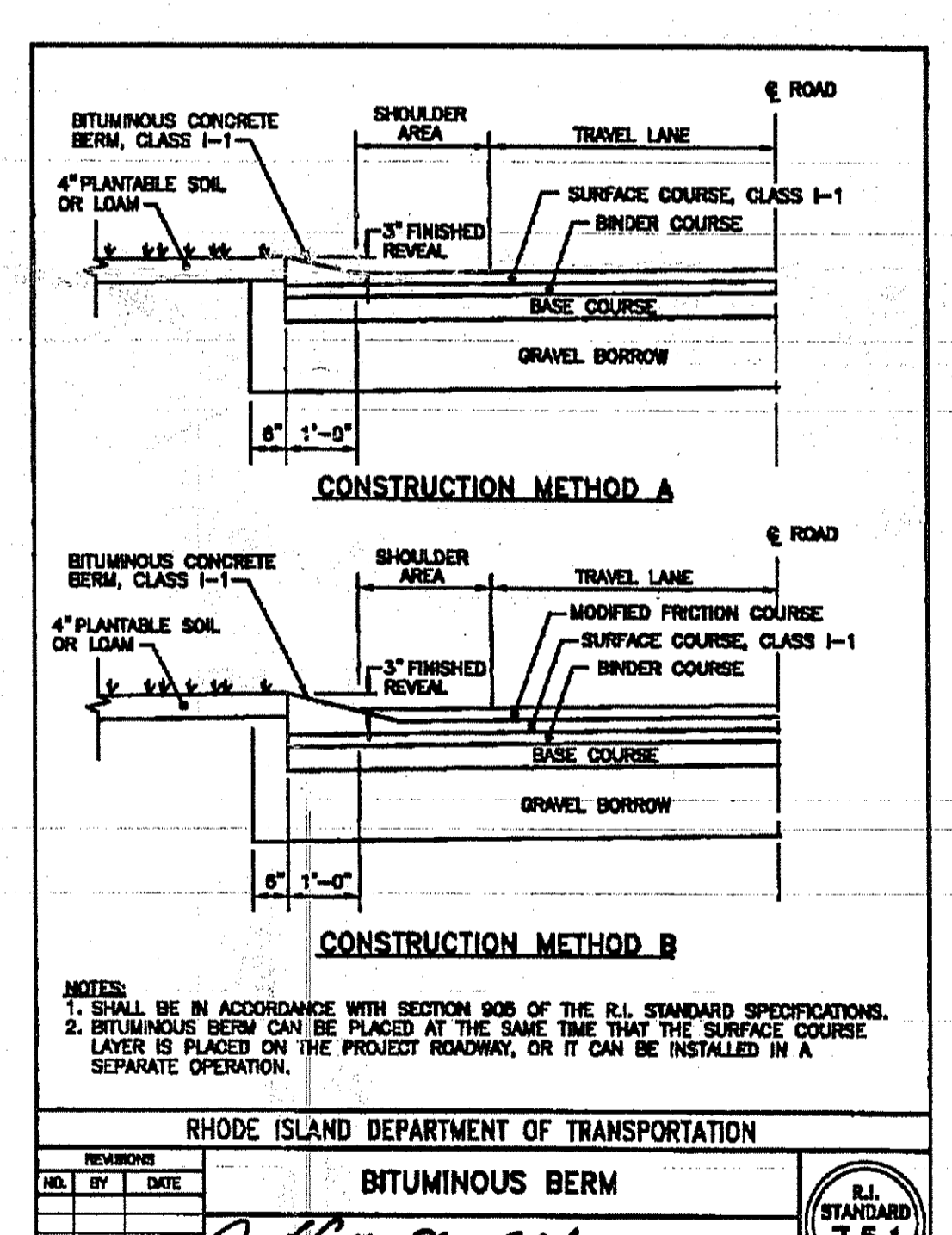
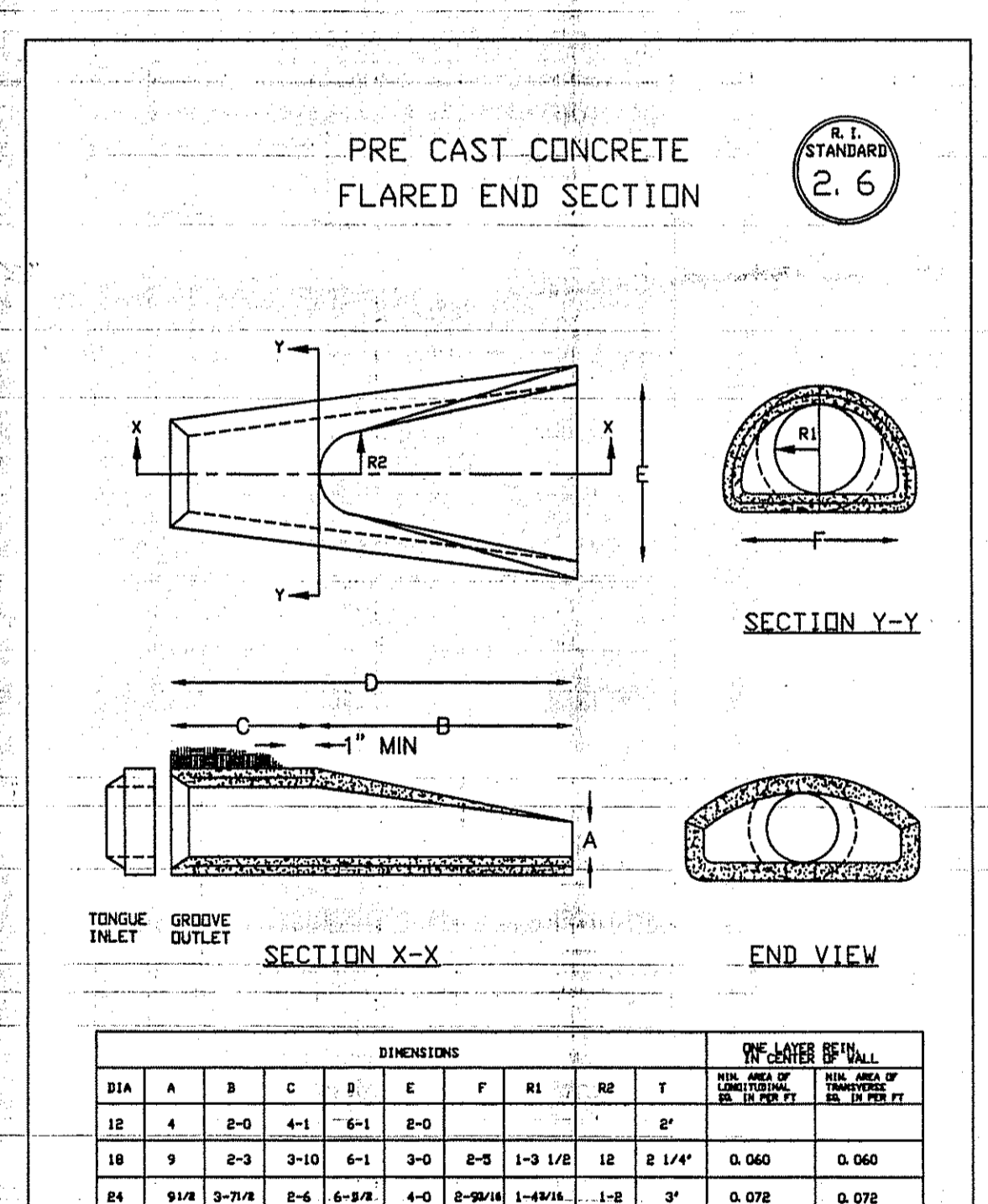
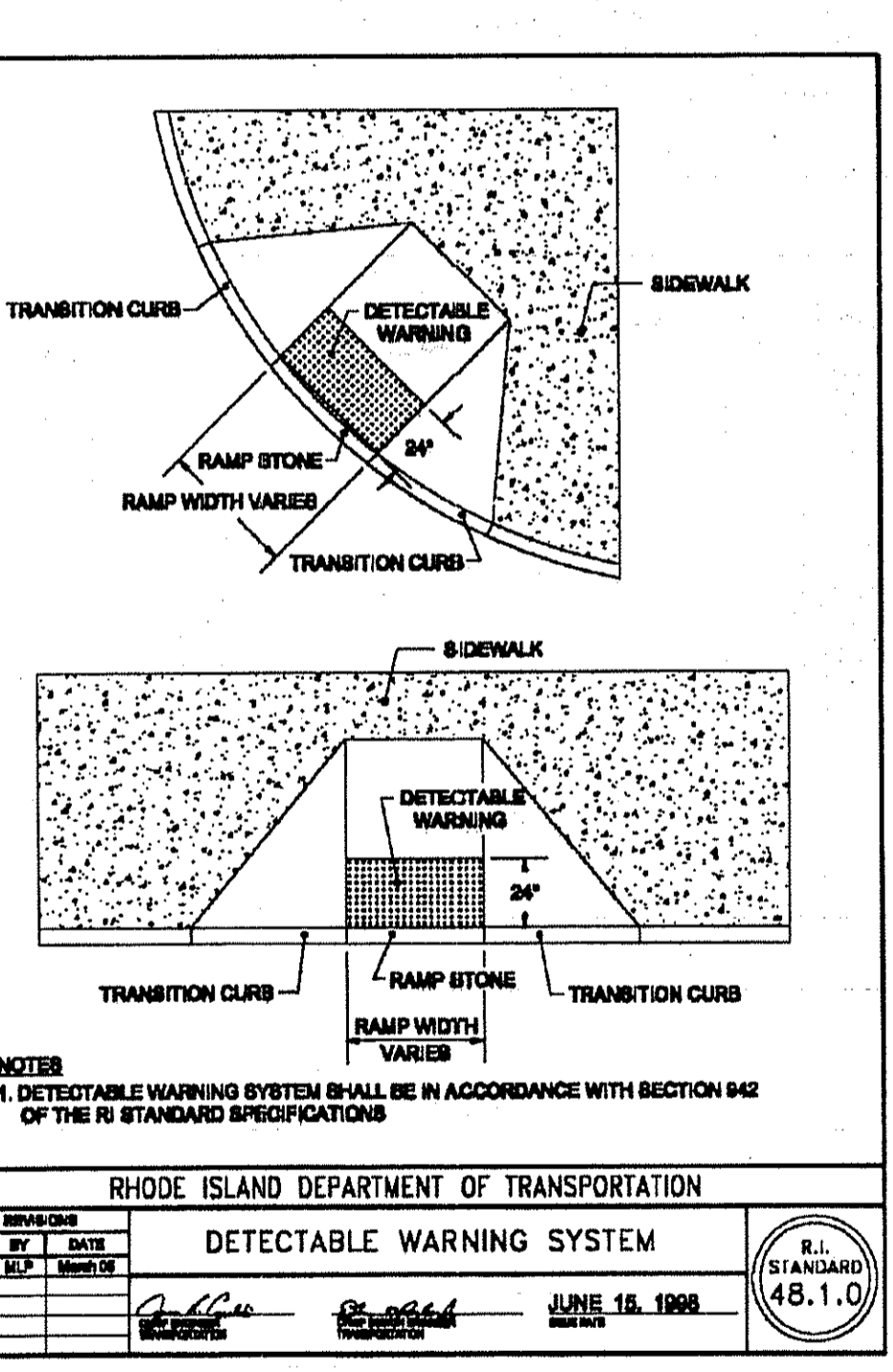
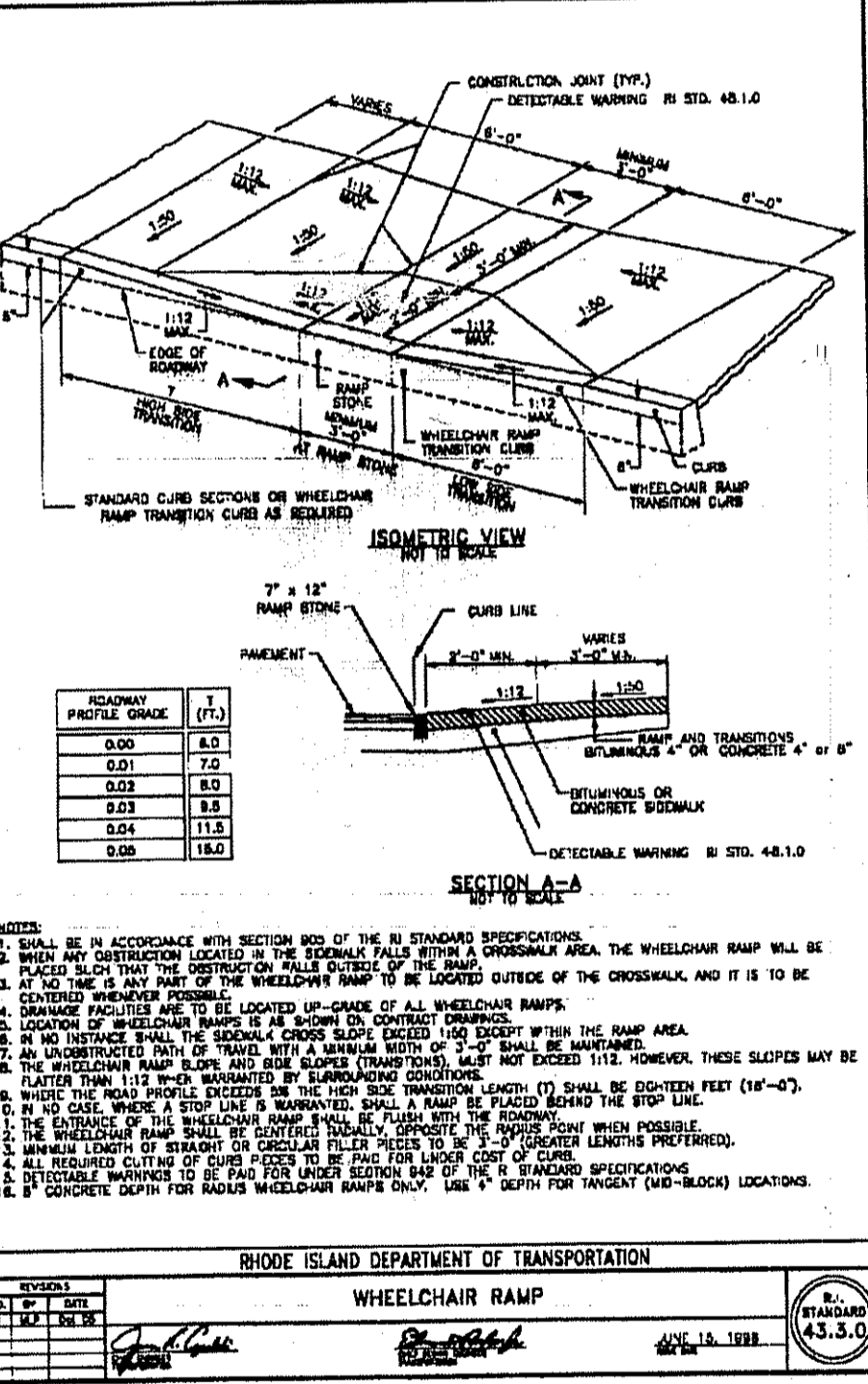
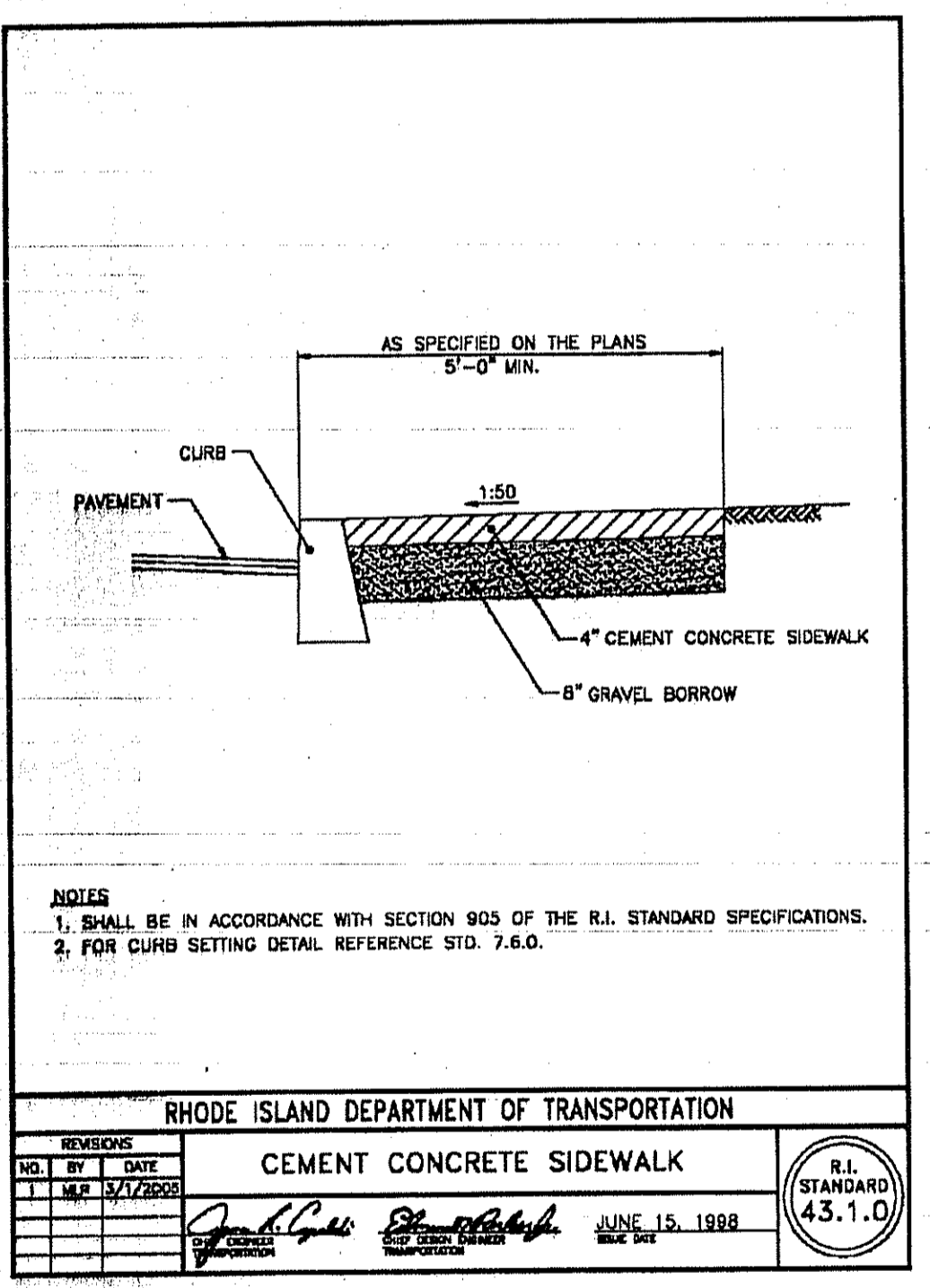
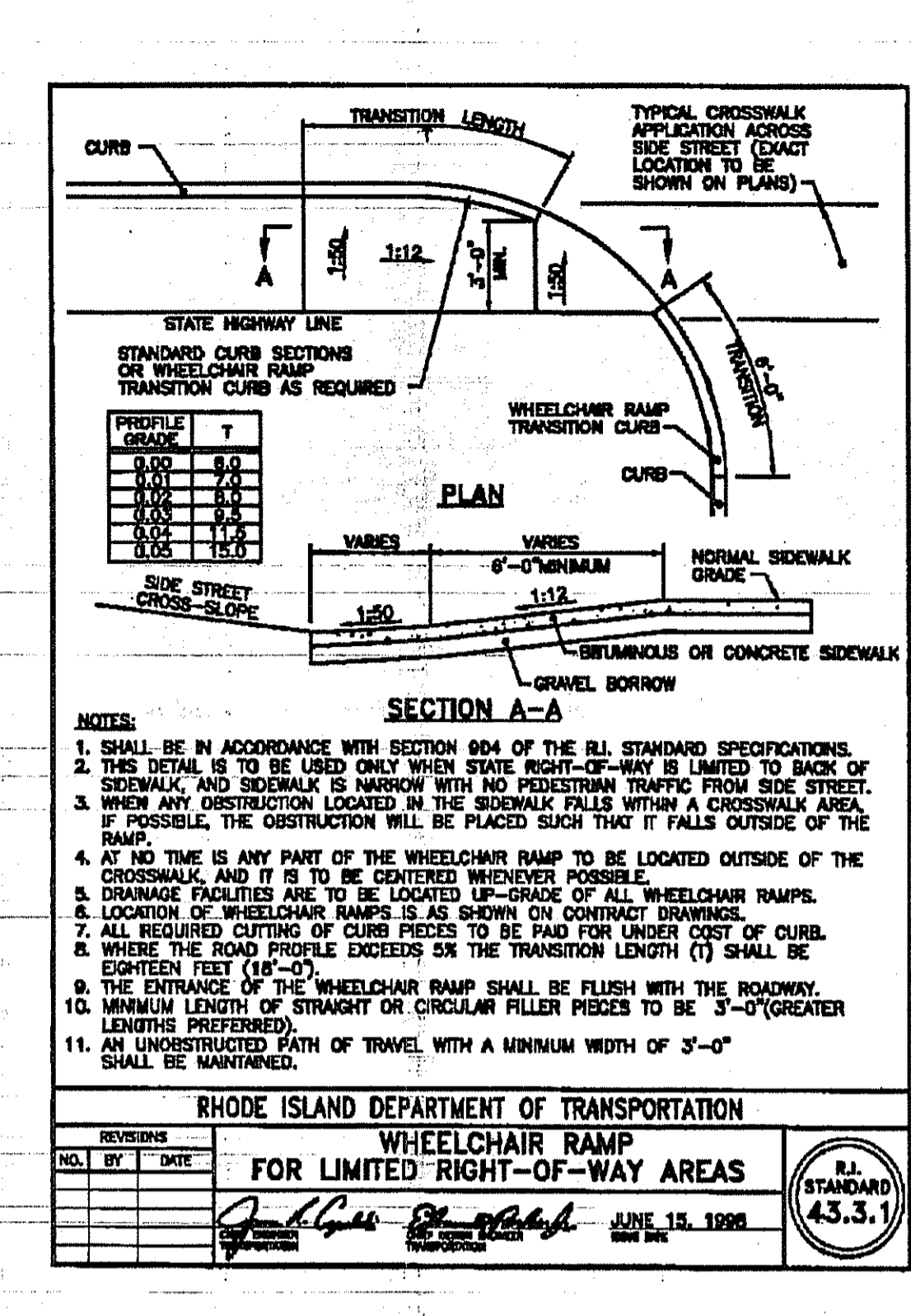
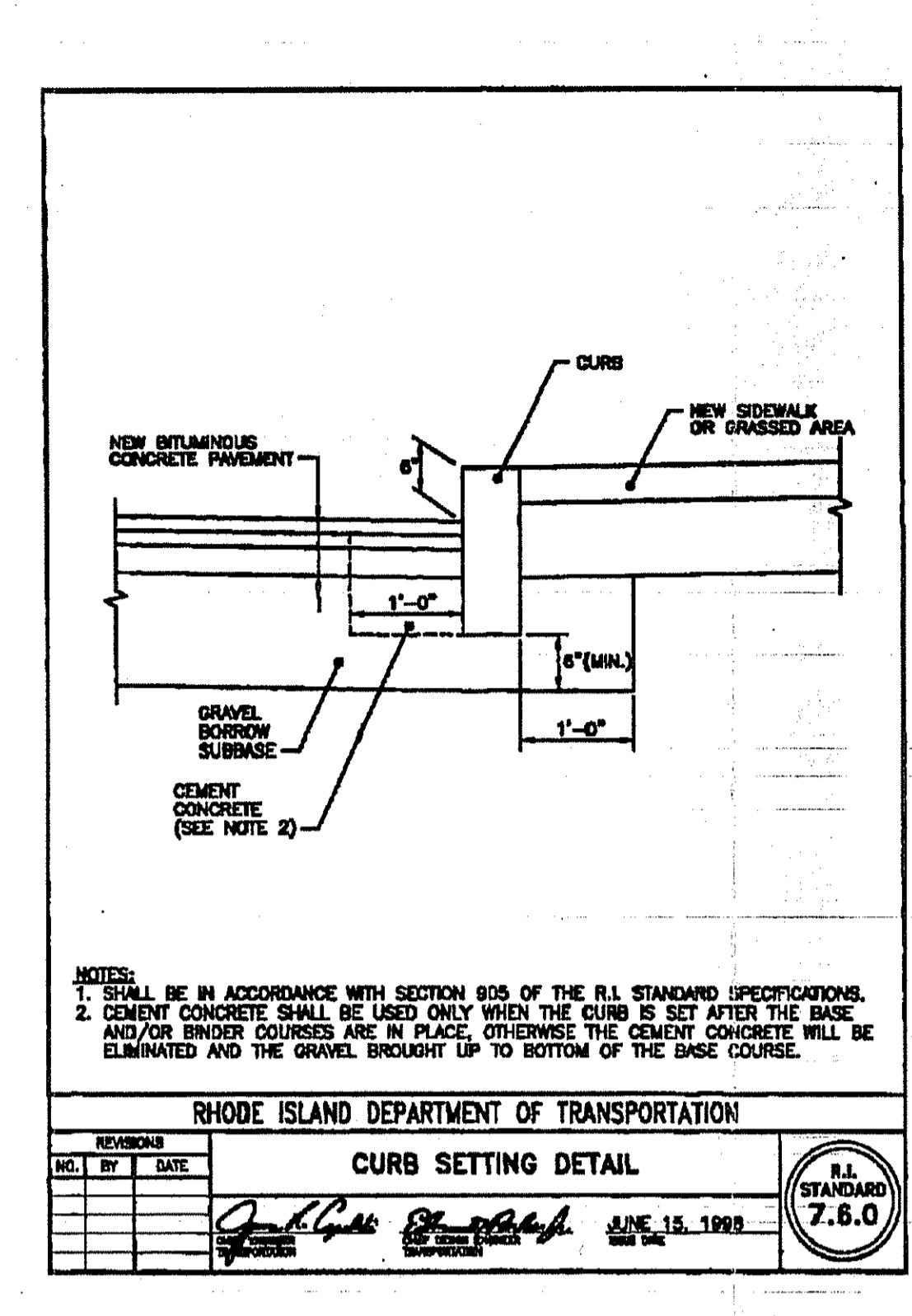
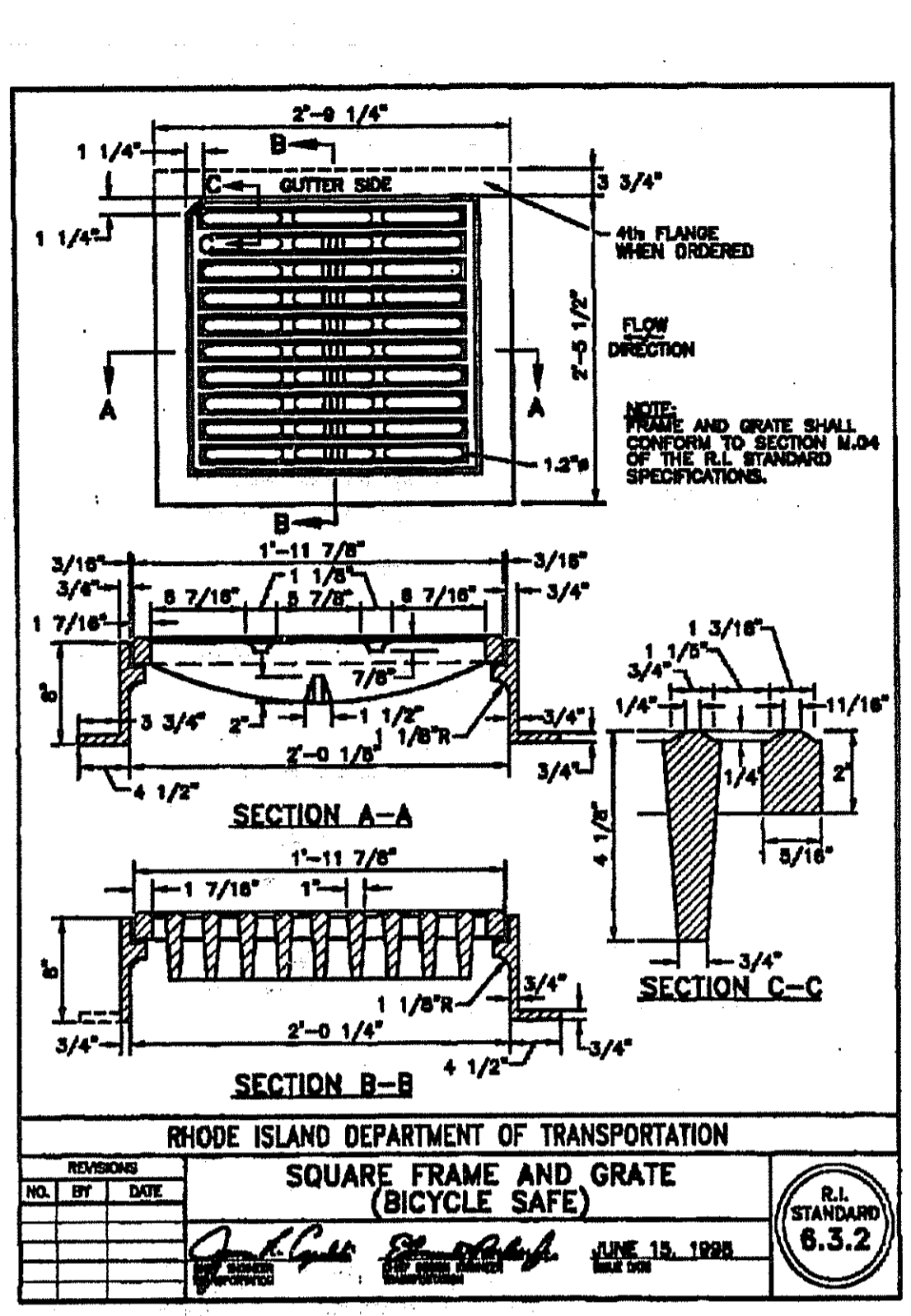
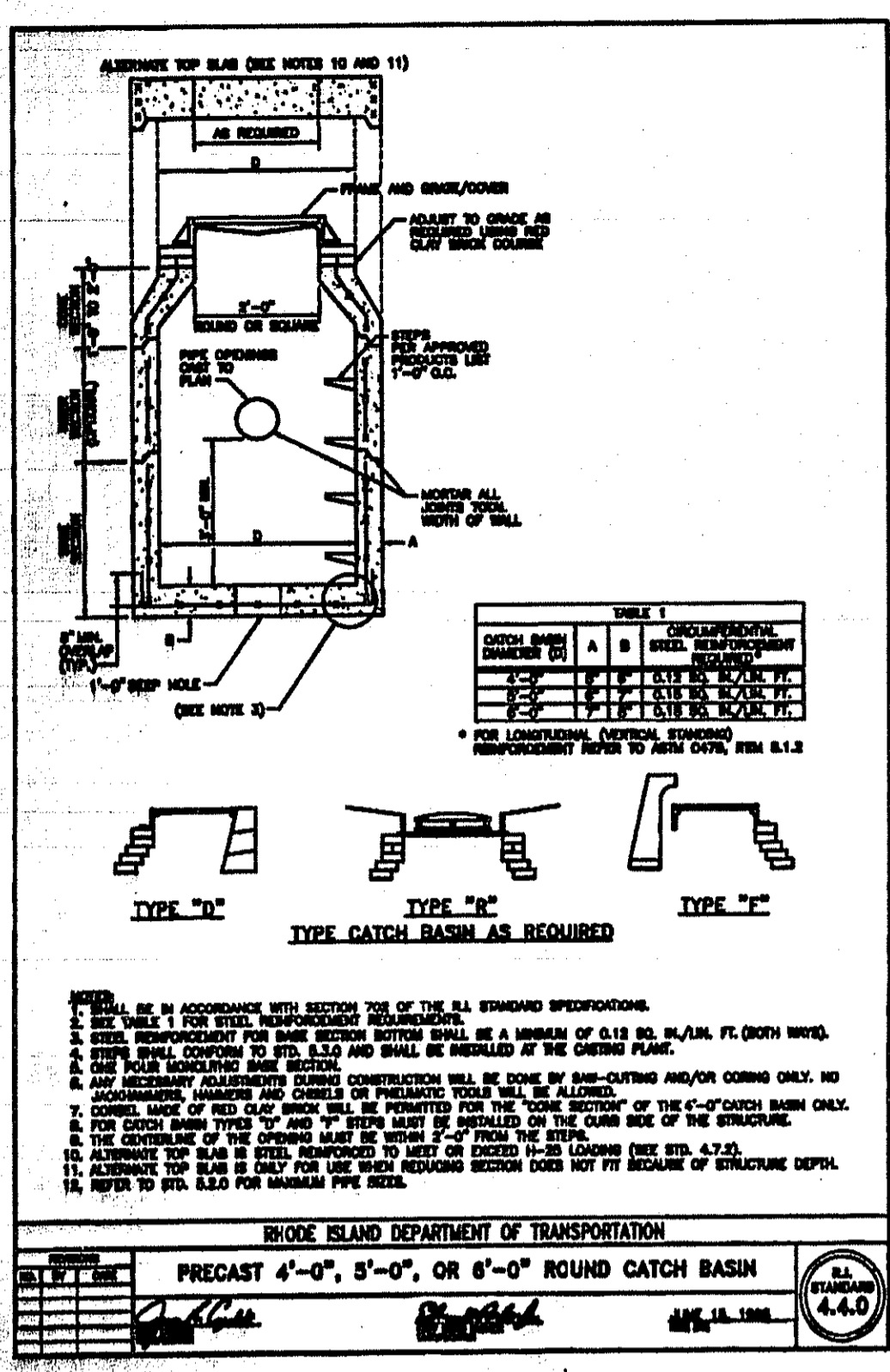
NO.	DATE	DESCRIPTION	BY

NO.	DATE	DESCRIPTION	BY



CONSTRUCTION DETAILS

SHEET	SCALE
8	NTS



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 24, 2014 FILE # 10-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION
Charles A. Hobe

SEQUENCE OF CONSTRUCTION:

1. ALL SEDIMENTATION CONTROL MEASURES SHALL BE PLACED BEFORE START OF ANY SOIL STRIPPING IS COMMENCED.
2. INSTALL SILT FENCE AS SHOWN ON THE PLAN.
3. INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS.
4. CONSTRUCT SETTLING WATER QUALITY AND DETENTION PONDS AS SHOWN ON THE PLANS.
5. EXCAVATE FOR FOUNDATIONS, ROADS, COWTS, ETC.
6. PERFORM ROUGH GRADING
7. INSTALL LEACHING FIELD.
8. PAVE PARKING LOT AND FINAL GRADE ALL DISTURBED AREA, LOAM AND SEED ALL DISTURBED AREAS.

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
2. IT SHALL ALSO BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
3. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 2004)" WITH ALL CORRECTIONS AND ADDENDA AND THE 2006 R.I. STANDARD DETAILS WITH ALL CORRECTIONS WORK COMMENCEMENT.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES ANY UTILITY REPAIR REQUIRED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
7. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. "DIG SAFE" SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION.
8. IN ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
9. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFF SITE, OUTSIDE OF PROJECT AREA.

EROSION CONTROL & SOIL STABILIZATION:

1. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR GREATER THAN 7 DAYS OF TIME, SUCH AS THE INACTIVE WINTER SEASON.
2. DURING EACH CONSTRUCTION YEAR ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE HYDO-SEEDED OR PROTECTED BY THAT DATE.
3. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
4. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 lbs./Ac.
5. THE CONTRACTOR MUST REPAIR AND/OR RE-SEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
6. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RIDOT STANDARD SPECIFICATIONS SECTION 202.
7. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHALL BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
8. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.
9. THE OWNER AGREES TO ALLOW THE BUILDING INSPECTOR TO INITIATE ANY ADDITIONAL EROSION OR SEDIMENT CONTROL MEASURES NECESSARY TO MINIMIZE SILTATION OR SEDIMENTATION.
10. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL EXITING THE PROJECT SITE.
11. DURING CONSTRUCTION THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
12. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
13. ADDITIONAL HAY BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
14. ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES WHEN DIRECTED BY THE ENGINEER.
15. REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.
16. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY HAY BALES AND SILT FENCE SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS.
17. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
18. STRIP AND STOCK PILES AS SHOWN ON THE PLAN.
19. **PREVENTIVE MEASURES**
-40 MIL. POLYETHYLENE LINER SHALL BE INSTALLED. LINER SHALL BE WELDED IN ONE PIECE AND INSTALLED AS SHOWN ON SHEET 5 OF 7 OF 6. NO MACHINE SHALL BE ALLOWED TO TRAVEL ON LINER ONCE PLACED UNTIL TWO FOOT OF STONE AND FRESH SOIL IS SPREAD.
20. **DUST CONTROL**
A. EXPOSED SOIL SURFACES SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
B. CALCIUM CHLORIDE SHALL ONLY BE USED AFTER SEEKING APPROVAL FROM THE PUBLIC WORKS DEPT.
21. **TRUCK TIRE CLEANING:** CONTRACTOR MUST CLEAN ALL STICKY SOIL FROM TRUCK TIRES BEFORE ALLOWING TRUCKS TO EXIT THE SITE.
22. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE THE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.

STORM DRAINAGE INSPECTION, MAINTENANCE AND REPAIR (I, M & R.):

RESPONSIBILITIES:

-CONTRACTOR SHALL BE RESPONSIBLE FOR I, M & R, FOR ALL DRAINAGE BMPs PROPOSED FOR THE SUBJECT PROJECT SITE ON THESE PLANS FOR ENTIRE PERIOD OF CONSTRUCTION, AND UP TO ONE YEAR AFTER THE CONSTRUCTION IS COMPLETED, AND ACCEPTANCE OF PROJECT BY ENGINEER DESIGNATED BY THE OWNER. OWNER OF THE RECORD SHALL BE RESPONSIBLE ON YEAR AFTER ACCEPTANCE
-ENTITY RESPONSIBLE FOR THE LONG-TERM MAINTENANCE OF THE SITE DRAINAGE AND SWEEPING OF THE PARKING SHALL BE OWNER OF THE RECORD OF PLAT 24-LOT-11.

1. INSPECTION BEFORE ACCEPTANCE AND MAINTENANCE OF SITE:

-ROUTINE MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM SHALL OCCUR AS FOLLOWS:
-THE CONTRACTOR SHALL BE RESPONSIBLE FOR CATCH BASIN AND SEDIMENT TRAPS INSPECTIONS AND MAINTENANCE UNTIL ALL CONSTRUCTION IS COMPLETE. HE WILL INSPECT ALL CONSTRUCTED CATCH BASIN 1ST OF THE MONTH FOR SEDIMENTS COLLECTIONS.
-WHENEVER 12 INCHES OF SILT HAS ACCUMULATED, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
-HAYBALES OR SILT FENCE ENCLOSURES WILL BE INSTALLED AROUND ALL CATCH BASINS UNTIL PAVEMENT IS PLACED.
-IMMEDIATELY FOLLOWING THE CONSTRUCTION OF EACH CATCH BASIN, A SILT SACK SHALL BE INSTALLED BETWEEN THE CATCH BASIN FRAME AND GRATE. THE SILT SACK SHALL BE REGULARLY MAINTAINED BY REMOVAL AND CLEANING AS REQUIRED TO PREVENT SILT FROM ENTERING THE DRAINAGE SYSTEM. THE SILT SACK SHALL REMAIN IN PLACE UNTIL THE TOP COURSE OF PAVEMENT HAS BEEN PLACED.
-MOWING OF SIDE SLOPES OF THE DETENTION POND EMBANKMENTS SHALL BE PERFORMED AT LEAST ONCE DURING GROWING SEASON (AFTER AUGUST 15TH) TO ENSURE THAT WOODY GROWTH DOES NOT TAKE ROOT, IF THE PROJECT IS PROLONGED TO STOPPED TEMPORARILY.
-ALL THRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES AND POND. THIS WORK SHALL BE ACCOMPANIED BY THE OWNER OF RECORD. MAINTENANCE OF THIS TYPE IMPROVES THE PHYSICAL APPEARANCE OF THE FACILITY AND PREVENTS BLOCKAGE OF INLET/OUTLET STRUCTURES, THEREBY AVERTING FAILURE OF THE STRUCTURE. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, IF THE PROJECT IS PROLONGED OR STOPPED TEMPORARILY, PREFERABLY SPRING AND FALL.

2. INSPECTION AFTER ACCEPTANCE OF SITE:

-THE CATCH BASINS, SEDIMENT TRAPS, WESTERLY POND AND 13 EASTERLY STORM WATER STORAGE TANKS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND PHYSICAL CONDITION AT LEAST ANNUALLY TO INVESTIGATE REMOVAL OF SEDIMENT.
-WHENEVER 6 INCHES OF SILT HAS ACCUMULATED IN CATCH BASINS, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

3. MAINTENANCE AFTER ACCEPTANCE OF SITE:

-THE GRASSED AREAS OF ANY BASIN SHOULD BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS MUST BE RESEEDED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
-THE VEGETATED CONDITION OF THE LEVEL SPREADERS OF DOWNSTREAM OF DRAINAGE DISCHARGE SHALL BE INSPECTED ANNUALLY. ANY EROSION OF CHANNELS OR BANKS, ANY EXCESSIVE SEEPAGE OR ANY LOSS OF VEGETATIVE COVER SHALL BE PROMPTLY REPAIRED USING STANDARD LANDSCAPING PRACTICES.
-MOWING OF SIDE SLOPES OF THE DETENTION POND EMBANKMENTS SHALL BE PERFORMED AT LEAST ONCE DURING GROWING SEASON (AFTER AUGUST 15TH) TO ENSURE THAT WOODY GROWTH DOES NOT TAKE ROOT.
-ALL THRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES AND POND. MAINTENANCE OF THIS TYPE IMPROVES THE PHYSICAL APPEARANCE OF THE FACILITY AND PREVENTS BLOCKAGE OF INLET/OUTLET STRUCTURES, THEREBY AVERTING FAILURE OF THE STRUCTURE. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY SPRING AND FALL.
- DURING THE FIRST SIX (6) MONTHS OF THE OPERATION, INSPECTION SHALL BE EVERY RAIN FALL EVENT, TO CHECK FOR THE CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE YEARLY.
- IF STANDING WATER IS OBSERVED WITHIN THE BASIN MORE THAN THREE (3) DAYS AFTER THE RAINFALL EVENT, THEN THE FAILURE OF THE BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR OR REPLACEMENT.
- THE PRESENCE OF A LINE IN WESTERLY POND BENEATH THE BASIN BOTTOM AND THE SIDES SLOPES REQUIRES THAT GREAT CARE BE UNDERTAKEN IN PERFORMING SEDIMENT REMOVAL AS WELL AS OTHER MAINTENANCE OPERATIONS, WITHIN THE BASIN. THEREFORE, SEDIMENT REMOVAL SHALL BE HAND DUG, OR CONDUCTED WITH EQUIPMENT, THAT WILL MINIMIZE ADVERSELY IMPACTING THE LINE.
-SEDIMENTS SHALL BE REMOVED FROM WESTERLY POND AND 13 HOLDING TANKS ON EASTERLY SIDE DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY 5 YEARS THEREAFTER DURING THE FIRST SIX (6) MONTHS OF OPERATION, INSPECTIONS SHALL BE ACCOMPLISHED AFTER EVERY RAINFALL EVENT, TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTION SHALL BE CONDUCTED, AT MINIMUM, ANNUALLY.
-ALL PAVED AREA SHALL BE SWEEP AT LEAST TWICE A YEAR.

4. REPAIR AFTER ACCEPTANCE OF SITE:

-IN AREA SHOULD BE SET ASIDE WITHIN THE DEVELOPMENT SITE FOR THE PURPOSE OF SEDIMENT DISPOSAL (WHERE APPLICABLE). THE DISPOSAL AREA SHOULD BE LARGE ENOUGH TO HANDLE THE VOLUME OF TWO CLEAN-OUT CYCLES. THE SITE CAN ALSO SERVE AS OPEN SPACE AND RECREATION AREAS.
-IF BLOCKAGE OF A BASIN OUTLET STRUCTURE OCCURS IT MAY BE NECESSARY TO DEWATER THE POND FOR ACCESS TO THE BLOCKAGE THE DEWATERING FLOW MUST BE ADEQUATELY FILTERED PRIOR TO DISCHARGE INTO RECEIVING WATER BODY TO REMOVE SUSPENDED SOLIDS.
-POOLS OF STAGNANT WATER IN DETENTION BASINS INDICATE FAILURE TO EROSION AND SCOURING OF THE BASIN BOTTOM, PARTICULARLY NEAR AN INLET DEVICE. THIS DEFICIENCY SHOULD BE CORRECTED IMMEDIATELY TO PREVENT A NUISANCE HABITAT FOR INSECTS, ESPECIALLY MOSQUITOES.
REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY SHOULD BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.


CATCH BASIN MAINTENANCE AFTER CONSTRUCTION COMPLETION:

-CATCH BASINS AND SEDIMENT TRAPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND PHYSICAL CONDITION AT LEAST ANNUALLY WITH REMOVAL OF SEDIMENT AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CATCH BASIN AND SEDIMENT TRAPS INSPECTIONS AND MAINTENANCE UNTIL ALL CONSTRUCTION IS COMPLETE.
-WHENEVER 6 INCHES OF SILT HAS ACCUMULATED, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
-HAYBALES OR SILT FENCE ENCLOSURES WILL BE INSTALLED AROUND ALL CATCH BASINS UNTIL PAVEMENT IS PLACED.
-IMMEDIATELY FOLLOWING THE CONSTRUCTION OF EACH CATCH BASIN, A SILT SACK SHALL BE INSTALLED BETWEEN THE CATCH BASIN FRAME AND GRATE. THE SILT SACK SHALL BE REGULARLY MAINTAINED BY REMOVAL AND CLEANING AS REQUIRED TO PREVENT SILT FROM ENTERING THE DRAINAGE SYSTEM. THE SILT SACK SHALL REMAIN IN PLACE UNTIL THE TOP COURSE OF PAVEMENT HAS BEEN PLACED.
-INSPECTIONS OF ALL CATCH BASINS ON-SITE SHOULD OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES MUST BE CORRECTED IMMEDIATELY.
-IF STANDING WATER IS OBSERVED WITHIN ANY OF THE TANKS COMPRISING POND #2 MORE THAN THREE (3) DAYS AFTER A RAINFALL EVENT, THEN FAILURE OF THE STRUCTURE HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR OR REPLACEMENT.
- DURING THE FIRST SIX (6) MONTHS OF THE OPERATION, INSPECTION SHALL BE AVERY RAIN FALL EVENT, TO CHECK FOR THE CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE YEARLY.

DRY SWALE PRINCIPAL CONVEYANCE AND SWALE ALONG NORTHERN PROPERTY LINE MAINTENANCE NOTES:

- A. THE SWALES SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON TO PREVENT ESTABLISHMENT OF WOODY GROWTH, ETC.
- B. GRASS VEGETATION SHALL NOT BE CUT SHORTER THAN (4) FOUR INCHES.
- C. BARE SPOTS AND ERODED AREAS WITHIN THE SWALE SHALL BE RESEEDED IMMEDIATELY FOLLOWING OBSERVATION.
- D. SWALE SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS. ALL TRASH AND OTHER LITTER SHALL BE REMOVED DURING INSPECTIONS.
- E. SEDIMENTS SHALL BE REMOVED FROM THE SWALES AT LEAST ONCE PER YEAR, OR MORE FREQUENTLY IF SEDIMENTS ARE OVER-TOPPING CHECK DAMS.
- F. ACCUMULATED SEDIMENTS IN SWALES SHALL BE REMOVED MANUALLY TO PREVENT DAMAGE TO SWALE.
- G. ALL PRINCIPAL SWALES ARE DESIGNED FOR 100 YEAR STORM WHILE SELECTED MINOR SWALES ARE DESIGNED FOR 25 YEAR STORM EVENTS.

NARRAGANSETT ENGINEERING INC.
MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630



www.nel-cds.com

SHEET TITLE

DETAILS SEA FARE INN

TOWN HOUSES - SITE LAYOUT

PROJECT OWNER / APPLICANT

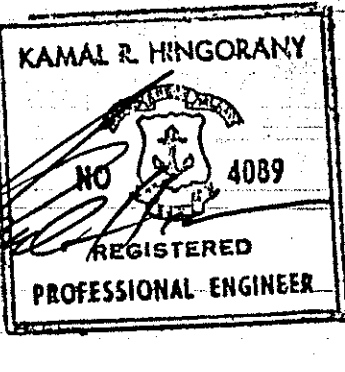
APOLLO BROTHERS LLC
C/O NEL
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION

3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24

LOT: 11



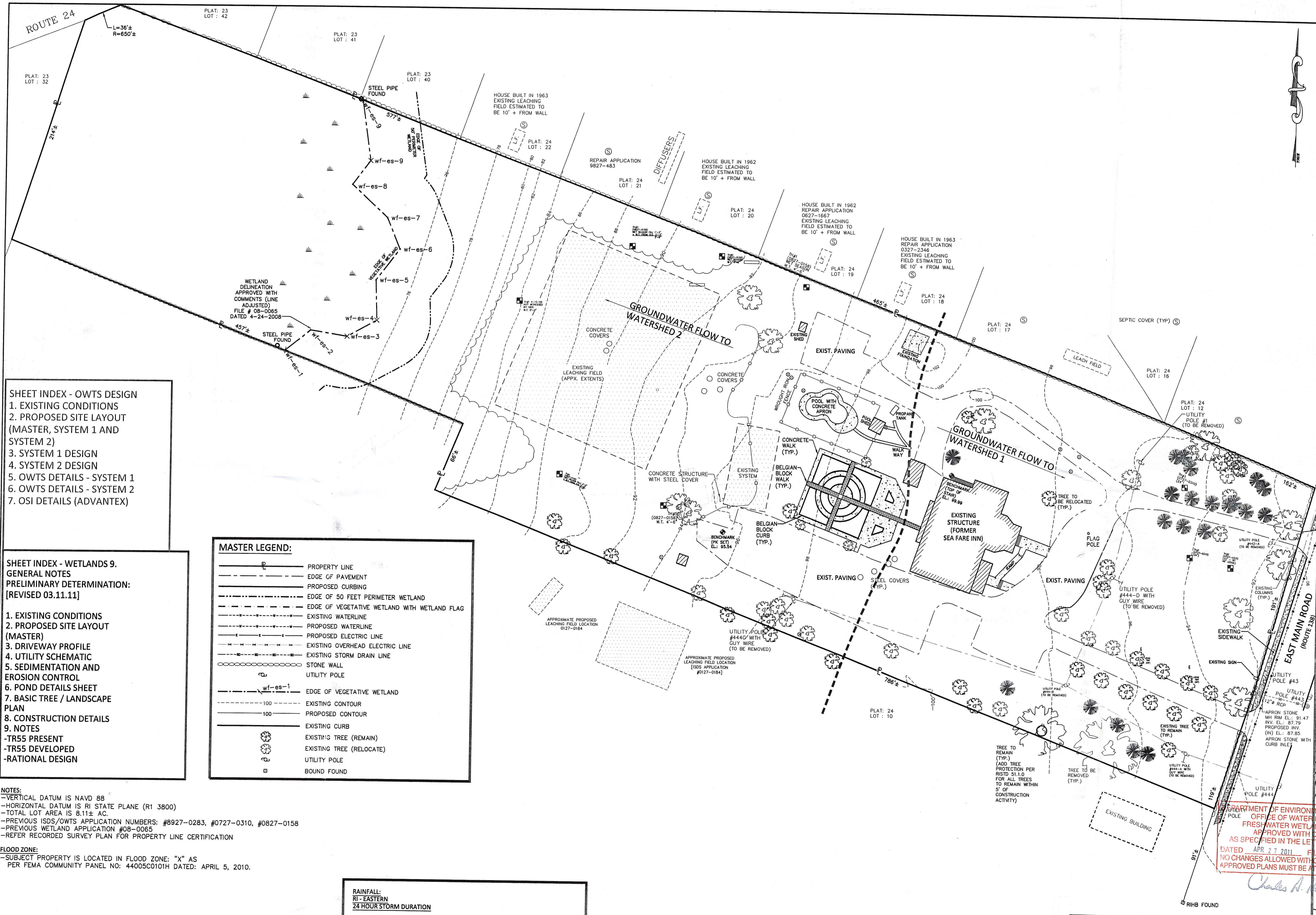
PROJECT #	DATE	DRAWN	CHECK
060203	03.14.14	NKH	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLAND
APPROVED WITH COMMENTS AS SPECIFIED IN THE LETTER
DATED APR 21 2014 FILE NO 10-0241
NO CHANGES ALLOWED WITHOUT APPROVAL
APPROVED PLANS MUST BE AT CDR'S OFFICE

Charles A. Nadeau
Environmental Management
MAR 27 2014
Office of Water Resources

SHEET	SCALE
9	NONE



- SHEET INDEX - OWTS DESIGN**
1. EXISTING CONDITIONS
 2. PROPOSED SITE LAYOUT (MASTER, SYSTEM 1 AND SYSTEM 2)
 3. SYSTEM 1 DESIGN
 4. SYSTEM 2 DESIGN
 5. OWTS DETAILS - SYSTEM 1
 6. OWTS DETAILS - SYSTEM 2
 7. OSI DETAILS (ADVANTEX)

- SHEET INDEX - WETLANDS 9. GENERAL NOTES PRELIMINARY DETERMINATION: [REVISED 03.11.11]**
1. EXISTING CONDITIONS
 2. PROPOSED SITE LAYOUT (MASTER)
 3. DRIVEWAY PROFILE
 4. UTILITY SCHEMATIC
 5. SEDIMENTATION AND EROSION CONTROL
 6. POND DETAILS SHEET
 7. BASIC TREE / LANDSCAPE PLAN
 8. CONSTRUCTION DETAILS
 9. NOTES
- TR55 PRESENT
 - TR55 DEVELOPED
 - RATIONAL DESIGN

MASTER LEGEND:

	PROPERTY LINE
	EDGE OF PAVEMENT
	PROPOSED CURBING
	EDGE OF 50 FEET PERIMETER WETLAND
	EDGE OF VEGETATIVE WETLAND WITH WETLAND FLAG
	EXISTING WATERLINE
	PROPOSED WATERLINE
	PROPOSED ELECTRIC LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM DRAIN LINE
	STONE WALL
	UTILITY POLE
	EDGE OF VEGETATIVE WETLAND
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING CURB
	EXISTING TREE (REMAIN)
	EXISTING TREE (RELOCATE)
	UTILITY POLE
	BOUND FOUND

NOTES:
 -VERTICAL DATUM IS NAVD 88
 -HORIZONTAL DATUM IS RI STATE PLANE (R1 3800)
 -TOTAL LOT AREA IS 8.11± AC.
 -PREVIOUS ISDS/OWTS APPLICATION NUMBERS: #8927-0283, #0727-0310, #0827-0158
 -PREVIOUS WETLAND APPLICATION #08-0065
 -REFER RECORDED SURVEY PLAN FOR PROPERTY LINE CERTIFICATION

FLOOD ZONE:
 -SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE: "X" AS PER FEMA COMMUNITY PANEL NO: 44005C0101H DATED: APRIL 5, 2010.

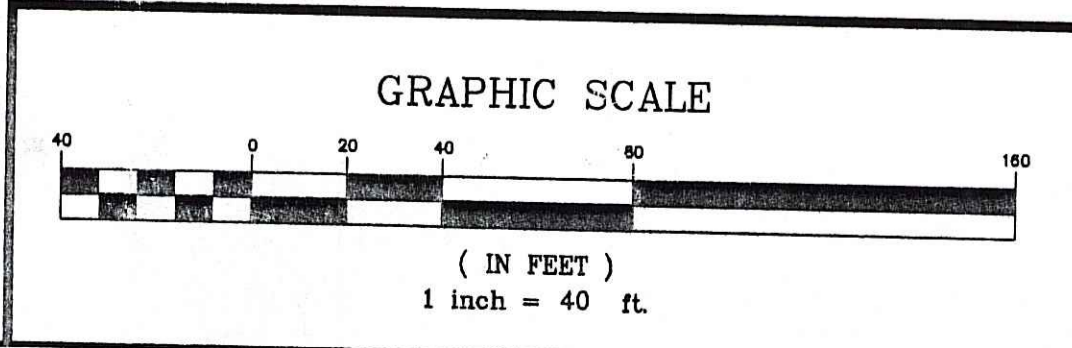
RAINFALL:
 RI - EASTERN
 24 HOUR STORM DURATION

INCHES OF RAINFALL:

1 YR: 2.7
2 YR: 3.4
10 YR: 5.0
25 YR: 5.8
100 YR: 7.2

(PER RIDEM HYDROLOGIC AND HYDRAULIC MODELING GUIDANCE, 11.16.07)

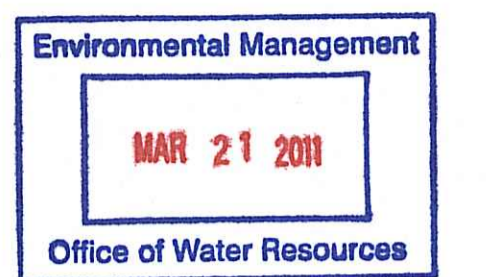
LOCATION OF SUBSURFACE UTILITIES REPRODUCED FROM FIELD SURVEY AND BEST AVAILABLE INFORMATION. CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION.
 DIG SAFE TEL #: 1-800-344-7233 (1-800-DIG-SAFE).



NARRAGANSETT ENGINEERING INC.
 MAIN OFFICE:
 3102 EAST MAIN ROAD,
 PORTSMOUTH, RI 02871
 TEL : (401) 683-6630



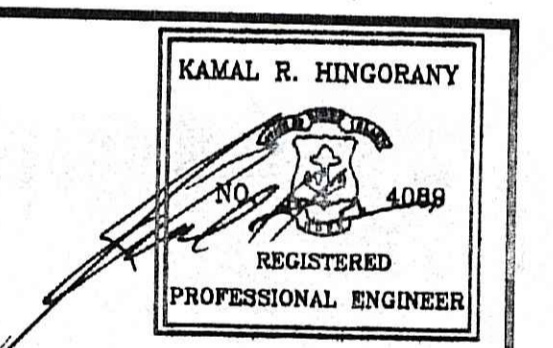
www.nei-cds.com



SHEET TITLE
EXISTING CONDITIONS
APOLLO BROTHERS, LLC
TOWN HOUSES -
SITE LAYOUT

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871
LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

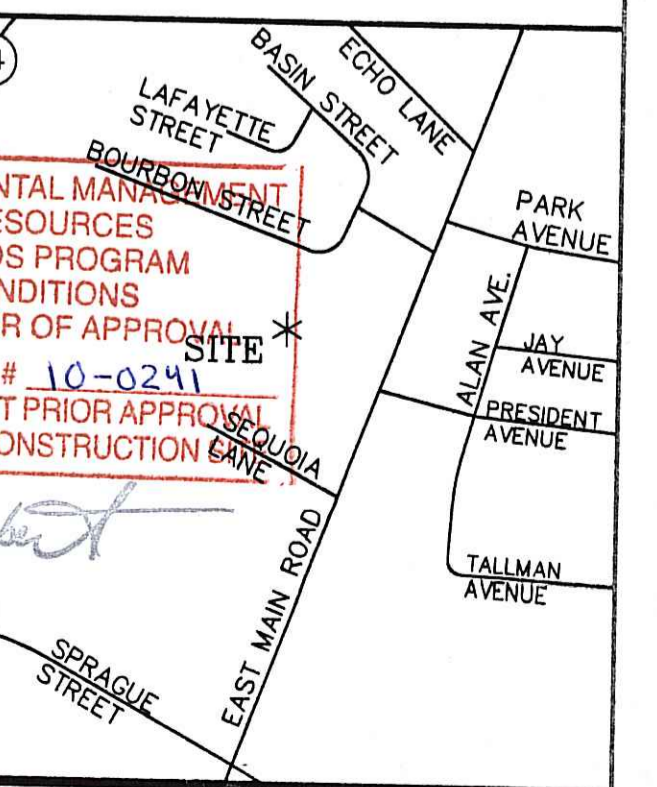
PLAT: 24 LOT: 11



PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

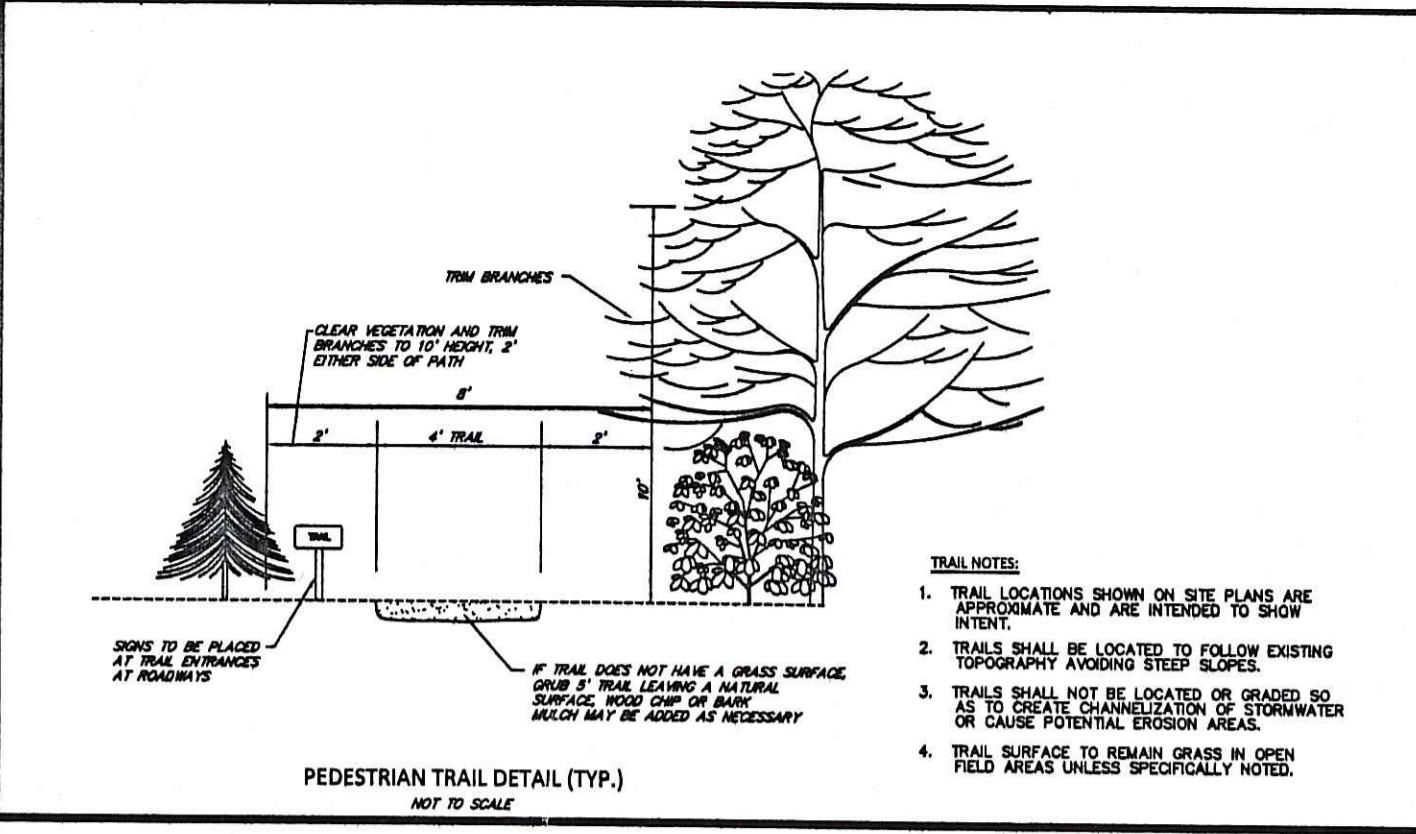
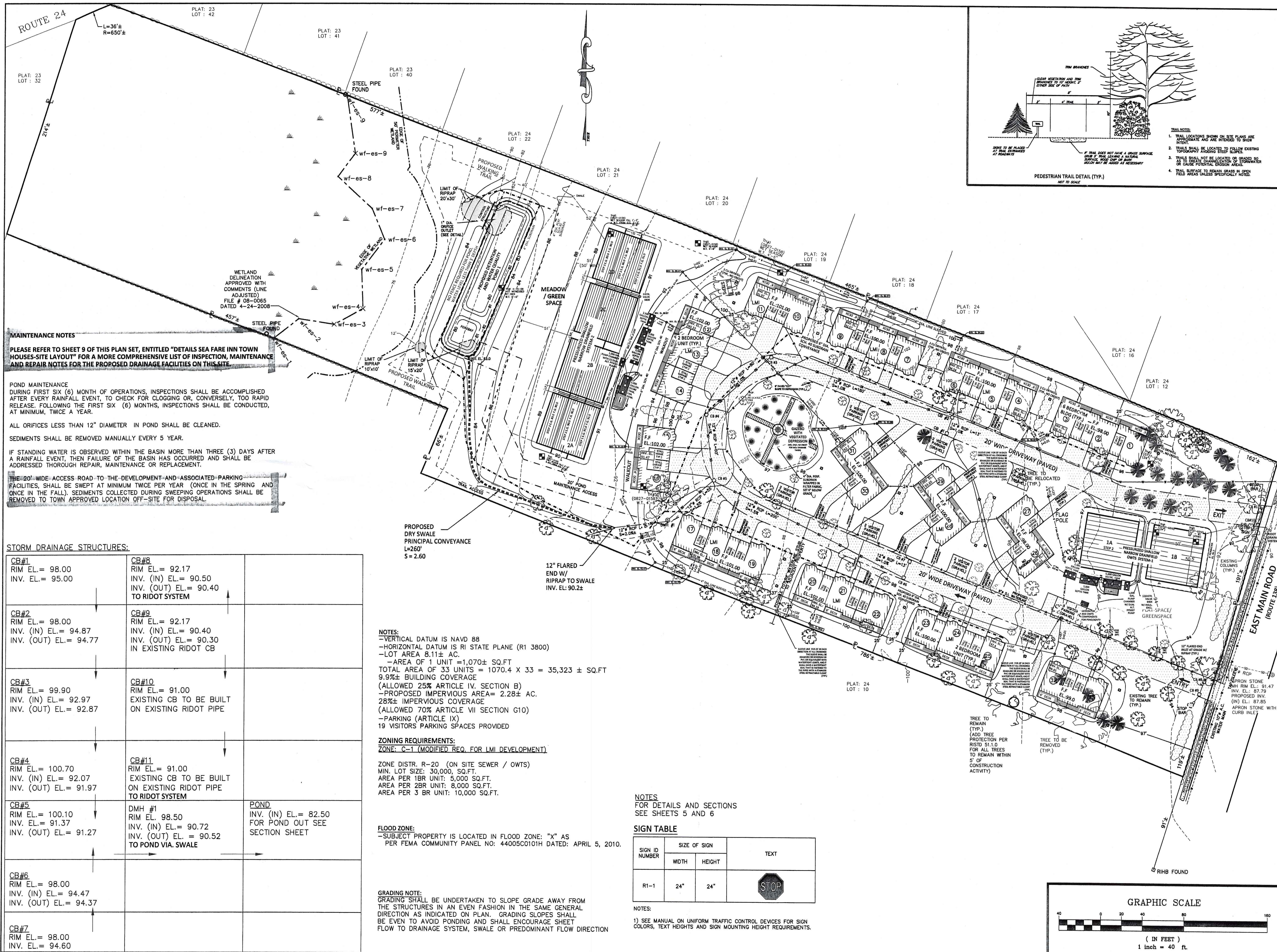
REVISIONS			
NO.	DATE	DESCRIPTION	BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
FRESH WATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 27 2011 FILE # 10-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION



LOCUS MAP

SHEET	SCALE
1	1"=40'



MAINTENANCE NOTES

PLEASE REFER TO SHEET 9 OF THIS PLAN SET, ENTITLED "DETAILS SEA FARE INN TOWN HOUSES-SITE LAYOUT" FOR A MORE COMPREHENSIVE LIST OF INSPECTION, MAINTENANCE AND REPAIR NOTES FOR THE PROPOSED DRAINAGE FACILITIES ON THIS SITE.

POND MAINTENANCE
 DURING FIRST SIX (6) MONTH OF OPERATIONS, INSPECTIONS SHALL BE ACCOMPLISHED AFTER EVERY RAINFALL EVENT, TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE A YEAR.

ALL ORIFICES LESS THAN 12" DIAMETER IN POND SHALL BE CLEANED.
 SEDIMENTS SHALL BE REMOVED MANUALLY EVERY 5 YEAR.

IF STANDING WATER IS OBSERVED WITHIN THE BASIN MORE THAN THREE (3) DAYS AFTER A RAINFALL EVENT, THEN FAILURE OF THE BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR, MAINTENANCE OR REPLACEMENT.

THE 20' WIDE ACCESS ROAD TO THE DEVELOPMENT AND ASSOCIATED PARKING FACILITIES, SHALL BE SWEEPED AT MINIMUM TWICE PER YEAR (ONCE IN THE SPRING AND ONCE IN THE FALL). SEDIMENTS COLLECTED DURING SWEEPING OPERATIONS SHALL BE REMOVED TO TOWN APPROVED LOCATION OFF-SITE FOR DISPOSAL.

STORM DRAINAGE STRUCTURES:

CB#1 RIM EL.= 98.00 INV. EL.= 95.00	CB#8 RIM EL.= 92.17 INV. (IN) EL.= 90.50 INV. (OUT) EL.= 90.40 TO RIDOT SYSTEM	
CB#2 RIM EL.= 98.00 INV. (IN) EL.= 94.87 INV. (OUT) EL.= 94.77	CB#9 RIM EL.= 92.17 INV. (IN) EL.= 90.40 INV. (OUT) EL.= 90.30 IN EXISTING RIDOT CB	
CB#3 RIM EL.= 99.90 INV. (IN) EL.= 92.97 INV. (OUT) EL.= 92.87	CB#10 RIM EL.= 91.00 EXISTING CB TO BE BUILT ON EXISTING RIDOT PIPE	
CB#4 RIM EL.= 100.70 INV. (IN) EL.= 92.07 INV. (OUT) EL.= 91.97	CB#11 RIM EL.= 91.00 EXISTING CB TO BE BUILT ON EXISTING RIDOT PIPE TO RIDOT SYSTEM	
CB#5 RIM EL.= 100.10 INV. EL.= 91.37 INV. (OUT) EL.= 91.27	DMH #1 RIM EL. 98.50 INV. (IN) EL.= 90.72 INV. (OUT) EL.= 90.52 TO POND VIA SWALE	POND INV. (IN) EL.= 82.50 FOR POND OUT SEE SECTION SHEET
CB#6 RIM EL.= 98.00 INV. (IN) EL.= 94.47 INV. (OUT) EL.= 94.37		
CB#7 RIM EL.= 98.00 INV. EL.= 94.60		

NOTES:
 -VERTICAL DATUM IS NAVD 88
 -HORIZONTAL DATUM IS RI STATE PLANE (R1 3800)
 -LOT AREA 8.11± AC.
 -AREA OF 1 UNIT = 1,070± SQ.FT
 TOTAL AREA OF 33 UNITS = 1070.4 X 33 = 35,323 ± SQ.FT
 9.9%± BUILDING COVERAGE
 (ALLOWED 25% ARTICLE IV, SECTION B)
 -PROPOSED IMPERVIOUS AREA= 2.28± AC.
 28%± IMPERVIOUS COVERAGE
 (ALLOWED 70% ARTICLE VII SECTION G10)
 -PARKING (ARTICLE IX)
 19 VISITORS PARKING SPACES PROVIDED

ZONING REQUIREMENTS:
 ZONE: C-1 (MODIFIED REQ. FOR LMI DEVELOPMENT)
 ZONE DISTR. R-20 (ON SITE SEWER / OWTS)
 MIN. LOT SIZE: 30,000 SQ.FT.
 AREA PER 1BR UNIT: 5,000 SQ.FT.
 AREA PER 2BR UNIT: 8,000 SQ.FT.
 AREA PER 3 BR UNIT: 10,000 SQ.FT.

FLOOD ZONE:
 -SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE: "X" AS PER FEMA COMMUNITY PANEL NO. 44005C0101H DATED: APRIL 5, 2010.

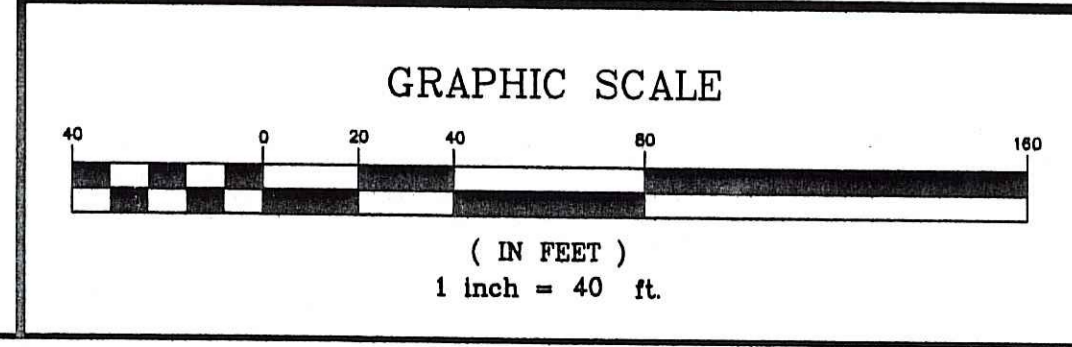
GRADING NOTE:
 GRADING SHALL BE UNDERTAKEN TO SLOPE GRADE AWAY FROM THE STRUCTURES IN AN EVEN FASHION IN THE SAME GENERAL DIRECTION AS INDICATED ON PLAN. GRADING SLOPES SHALL BE EVEN TO AVOID PONDING AND SHALL ENCOURAGE SHEET FLOW TO DRAINAGE SYSTEM, SWALE OR PREDOMINANT FLOW DIRECTION

NOTES:
 FOR DETAILS AND SECTIONS SEE SHEETS 5 AND 6

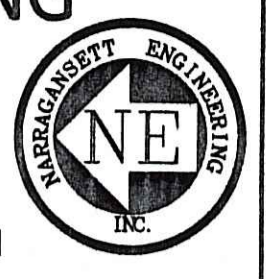
SIGN TABLE

SIGN ID NUMBER	SIZE OF SIGN		TEXT
	WIDTH	HEIGHT	
R1-1	24"	24"	STOP

NOTES:
 1) SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR SIGN COLORS, TEXT HEIGHTS AND SIGN MOUNTING HEIGHT REQUIREMENTS.



NARRAGANSETT ENGINEERING INC.
 MAIN OFFICE:
 3102 EAST MAIN ROAD,
 PORTSMOUTH, RI 02871
 TEL : (401) 683-6630



www.nel-cds.com

Environmental Management
 MAR 21 2011
 Office of Water Resources

SHEET TITLE

PROPOSED CONDITIONS SEA FARE INN SITE LAYOUT

TOWN HOUSES

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871

LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

03.11.11
 KAMAL R. HINGORANY
 REGISTERED PROFESSIONAL ENGINEER

PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

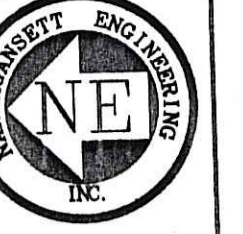
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM REVIEW	NKH

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 27 2011 FILE # 10-C241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Herbert

PROPOSED SITE LAYOUT (MASTER)

SHEET	SCALE
2	1"=40'



MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630

www.nel-cds.com

Environmental Management
MAR 21 2011
Office of Water Resources

SHEET TITLE

PROPOSED DRIVEWAY PROFILE

TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/ APPLICANT
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION
3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24

LOT: 11

03.11.11
KAMAL R. HINGORANY
REGISTERED PROFESSIONAL ENGINEER

PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

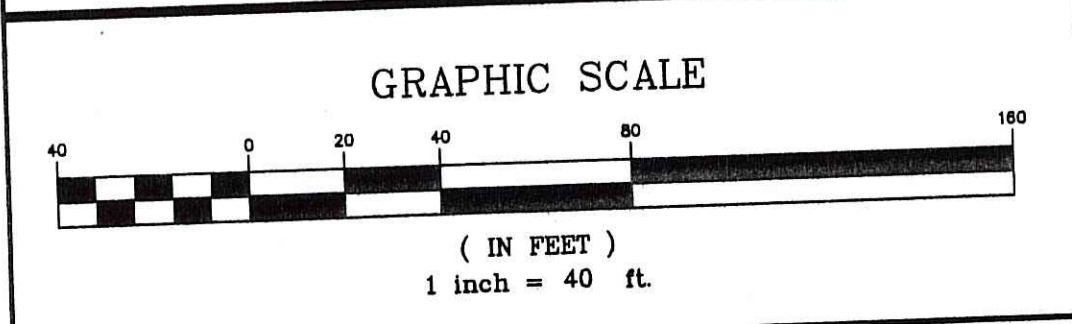
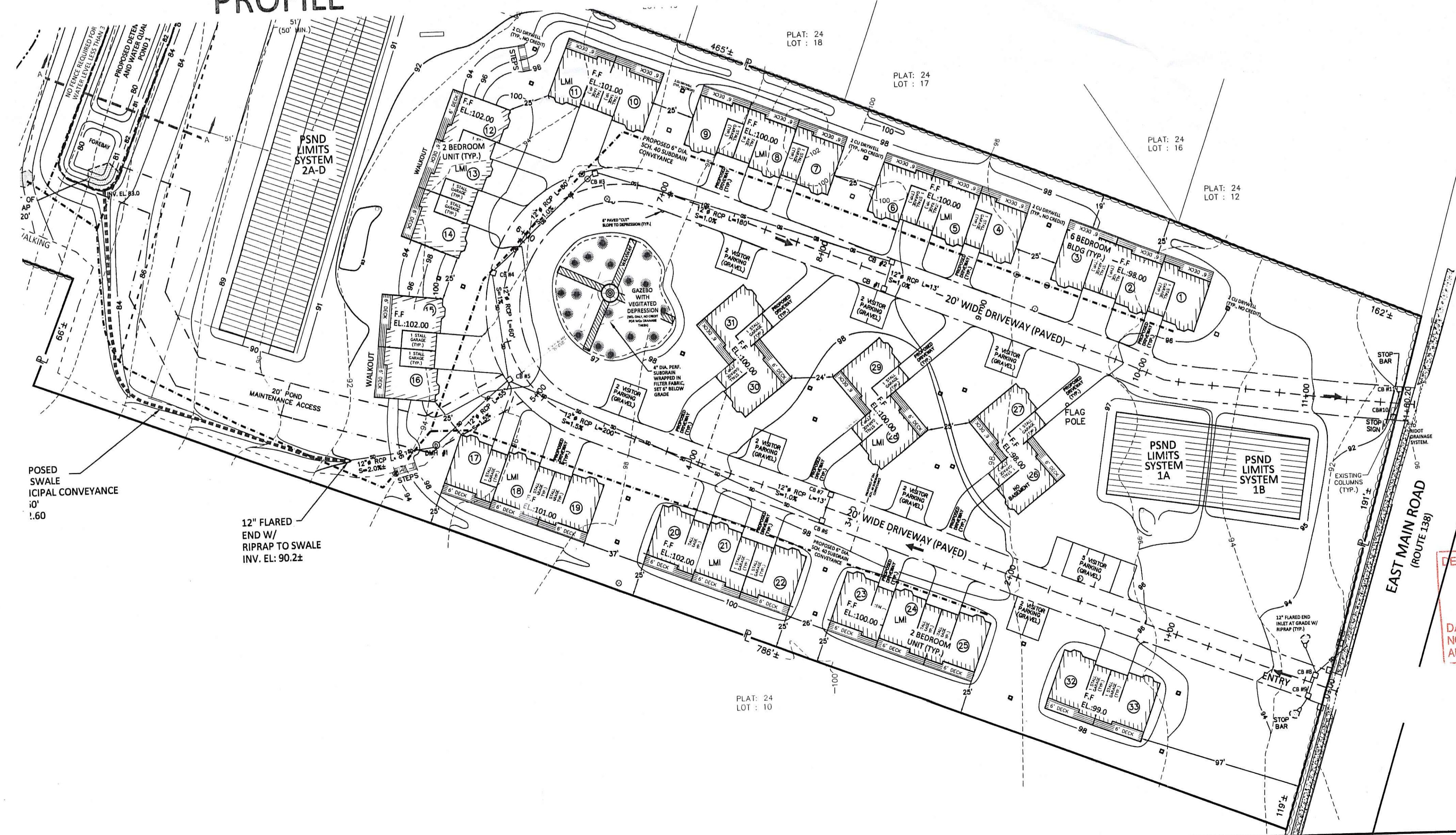
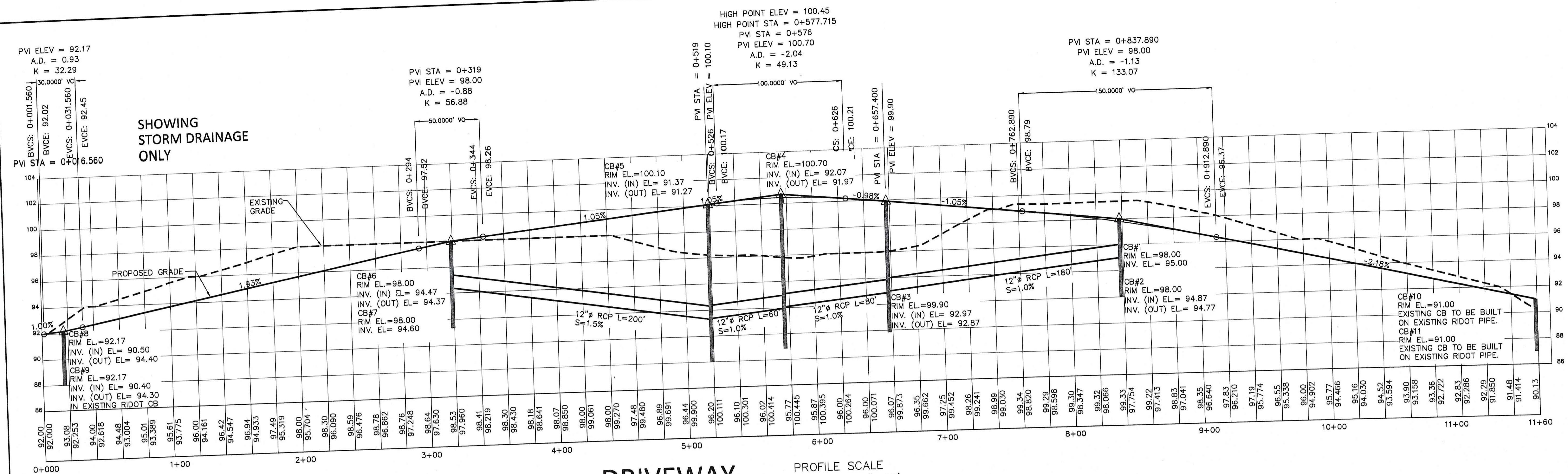
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM REVIEW	NKH

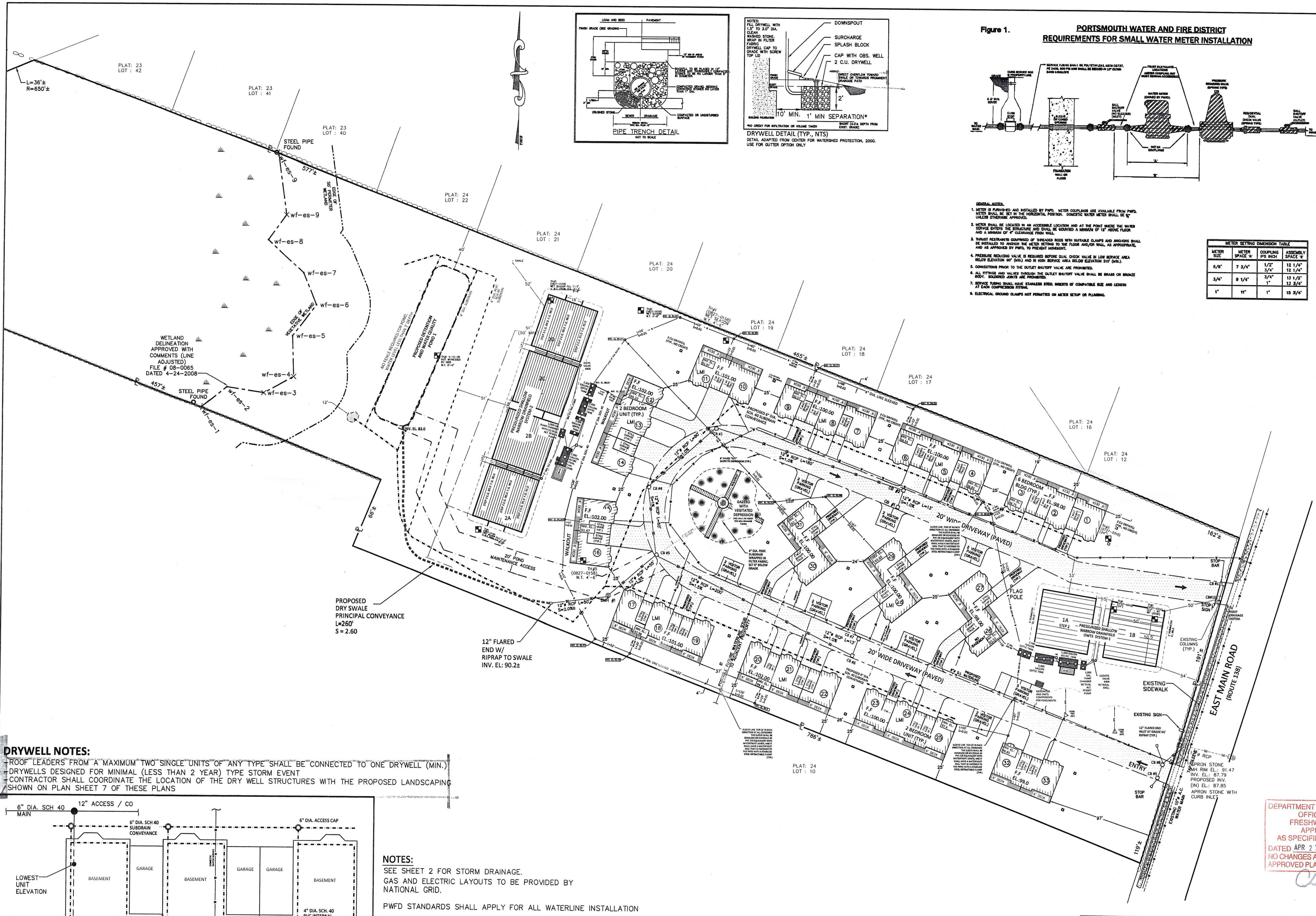
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 27 2011 FILE # 10-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hingorany

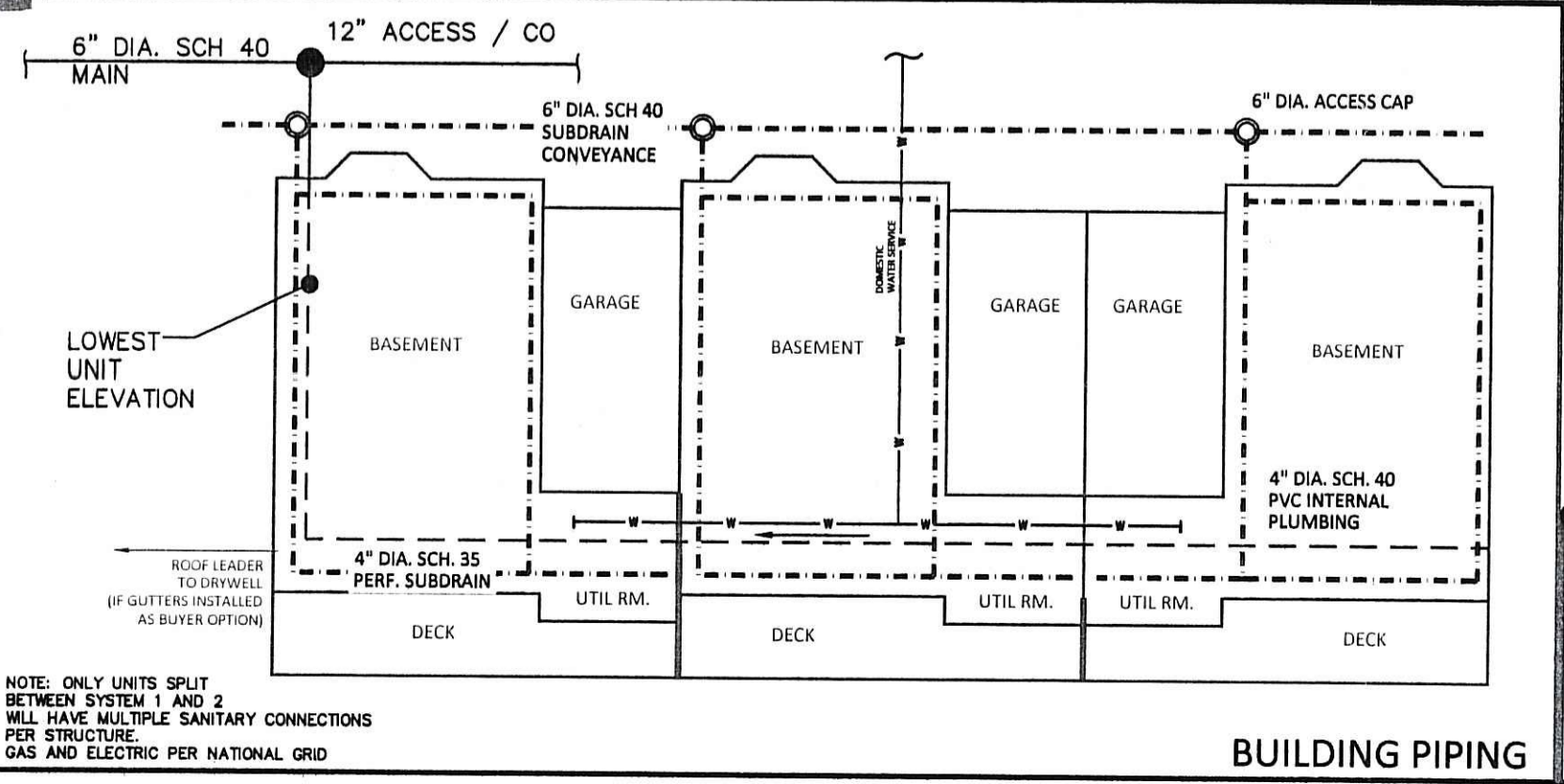
DRIVEWAY PROFILE

SHEET	SCALE
3	1"=40'



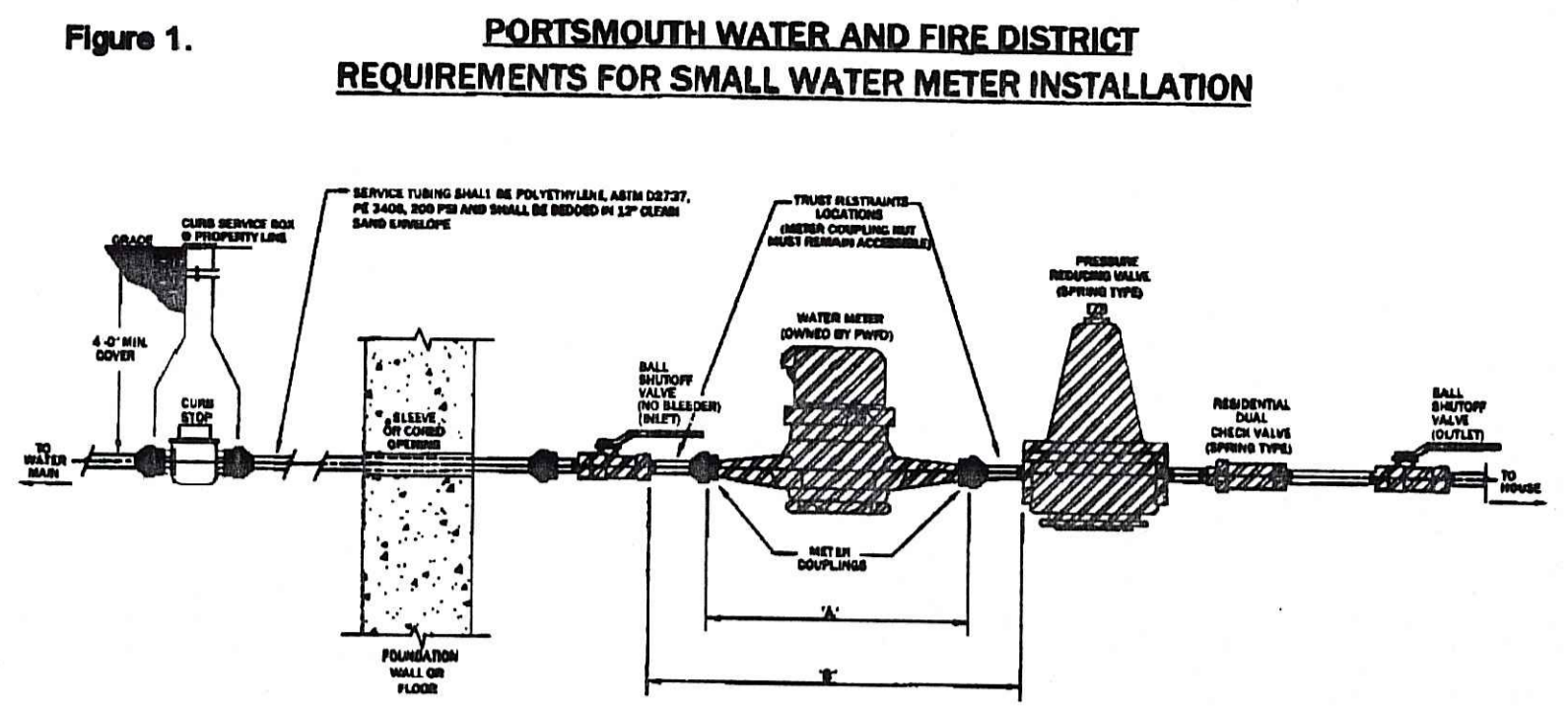
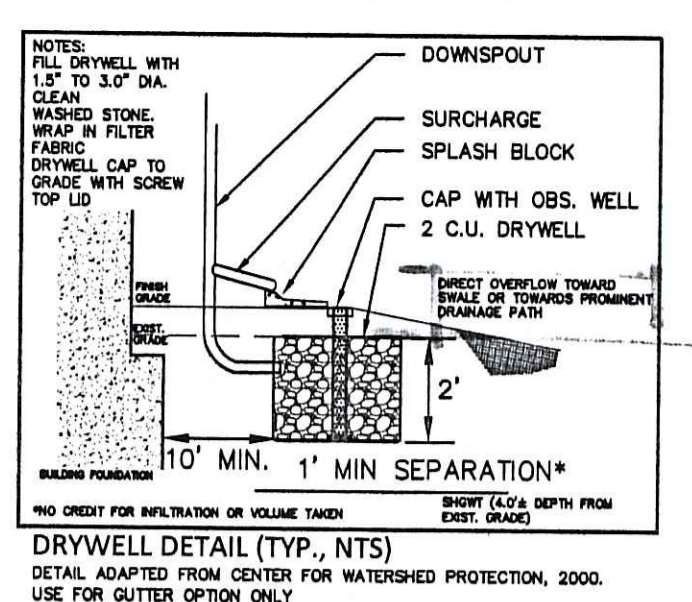
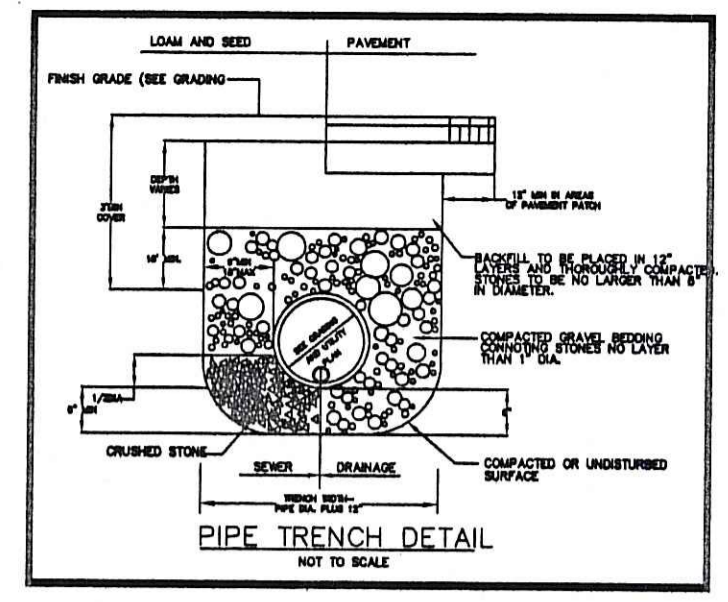


DRYWELL NOTES:
 ROOF LEADERS FROM A MAXIMUM TWO SINGLE UNITS OF ANY TYPE SHALL BE CONNECTED TO ONE DRYWELL (MIN.) DRYWELLS DESIGNED FOR MINIMAL (LESS THAN 2 YEAR) TYPE STORM EVENT
 CONTRACTOR SHALL COORDINATE THE LOCATION OF THE DRYWELL STRUCTURES WITH THE PROPOSED LANDSCAPING SHOWN ON PLAN SHEET 7 OF THESE PLANS



NOTES:
 SEE SHEET 2 FOR STORM DRAINAGE.
 GAS AND ELECTRIC LAYOUTS TO BE PROVIDED BY NATIONAL GRID.
 PWF D STANDARDS SHALL APPLY FOR ALL WATERLINE INSTALLATION

PAVING NOTE:
 PROPOSED PAVING SHALL ADHERE TO THE FOLLOWING MATERIAL SPECIFICATIONS:
 -STABLE COMPACTED SUB-BASE
 -12\"/>



- GENERAL NOTES:**
- METER IS PURCHASED AND INSTALLED BY PWD. METER COUPLINGS ARE AVAILABLE FROM PWD. METERS SHALL BE SET IN THE HORIZONTAL POSITION. DOMESTIC WATER METER SHALL BE 1\"/>
 - METER SHALL BE LOCATED IN AN ACCESSIBLE LOCATION AND AT THE POINT WHERE THE WATER SERVICE ENTERS THE STRUCTURE AND SHALL BE KEPT AT A MINIMUM OF 18\"/>
 - THRESHOLD RESTRICTION EQUIPMENT OF SERVICE LINES WITH METEABLE CLAMPS AND ANCHORS SHALL BE INSTALLED TO ANCHOR THE METER SETTING TO THE FLOOR AND/OR WALL, AS APPROPRIATE, AND AS APPROVED BY PWD, TO PREVENT MOVEMENT.
 - PRESSURE REDUCING VALVE IS REQUIRED BEFORE DUAL CHECK VALVE IN LOW SERVICE AREA BELOW ELEVATION 60' (MSL) AND IN HIGH SERVICE AREA BELOW ELEVATION 50' (MSL).
 - CONNECTIONS PRIOR TO THE OUTLET SHUTOFF VALVE ARE PROHIBITED.
 - ALL FITTINGS AND VALVES THROUGH THE OUTLET SHUTOFF VALVE SHALL BE BRASS OR BRONZE BODY. BOLTED Joints ARE PROHIBITED.
 - SERVICE TUBING SHALL HAVE STAINLESS STEEL BUSHES OF COMPATIBLE SIZE AND LENGTH AT EACH COMPRESSING FITTING.
 - ELECTRICAL GROUND CLAMPS NOT PERMITTED ON METER SETUP OR PIPING.

METER SIZE	METER SPACE W	COUPLING IPS INCH	ASSEMBLY SPACE W
5/8"	7 3/4"	1/2"	18 1/4"
3/4"	9 1/4"	3/4"	12 1/4"
1"	11"	1"	15 3/4"

NARRAGANSETT ENGINEERING INC.
 MAIN OFFICE:
 3102 EAST MAIN ROAD,
 PORTSMOUTH, RI 02871
 TEL : (401) 683-6630

Environmental Management
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 Office of Water Resources

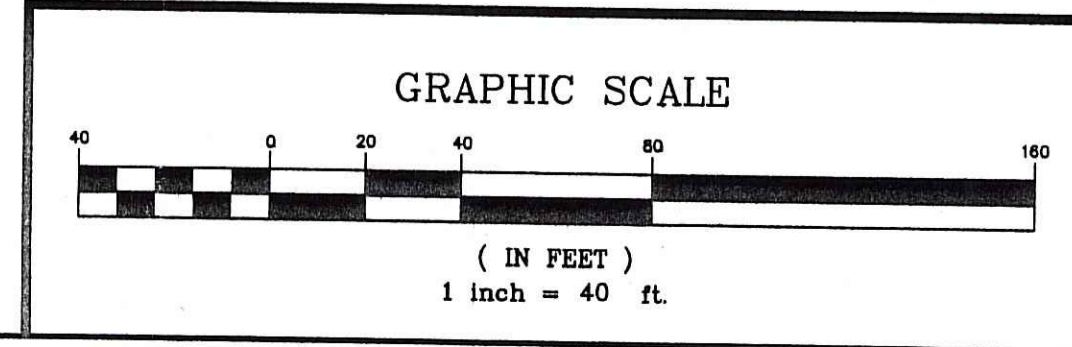
SHEET TITLE
UTILITY PLAN
SEA FARE INN
TOWN HOUSES -
UTILITY LAYOUT PLAN
 PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871
 LOCATION
 3352 EAST MAIN ROAD
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03.11.11
 KAMAL R. HINGORANY
 REGISTERED PROFESSIONAL ENGINEER

PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

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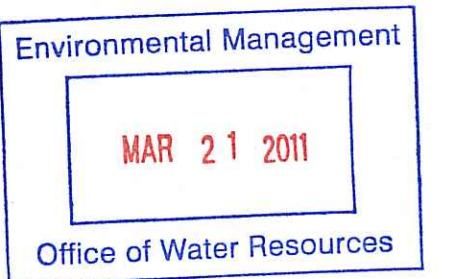
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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UTILITY PLAN
 SHEET 4
 SCALE 1"=40'



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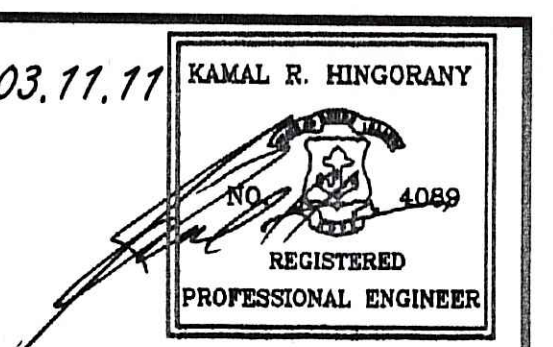
SHEET TITLE
EROSION CONTROL PLAN
SEA FARE INN

TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
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 PORTSMOUTH RI 02871

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PLAT: 24 LOT: 11



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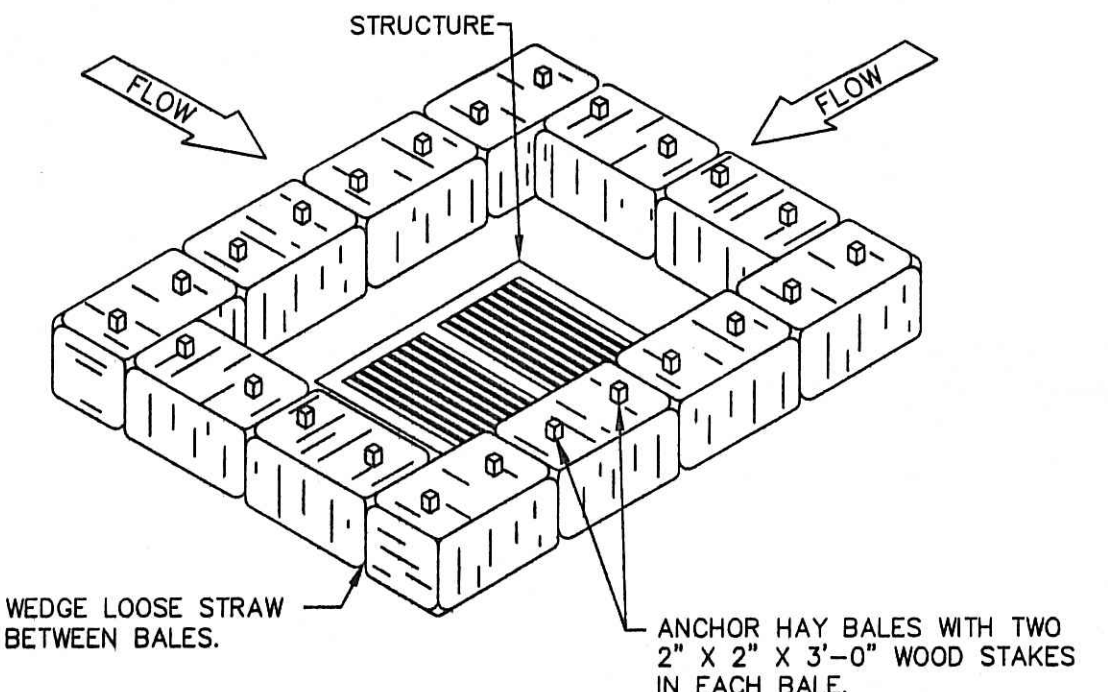
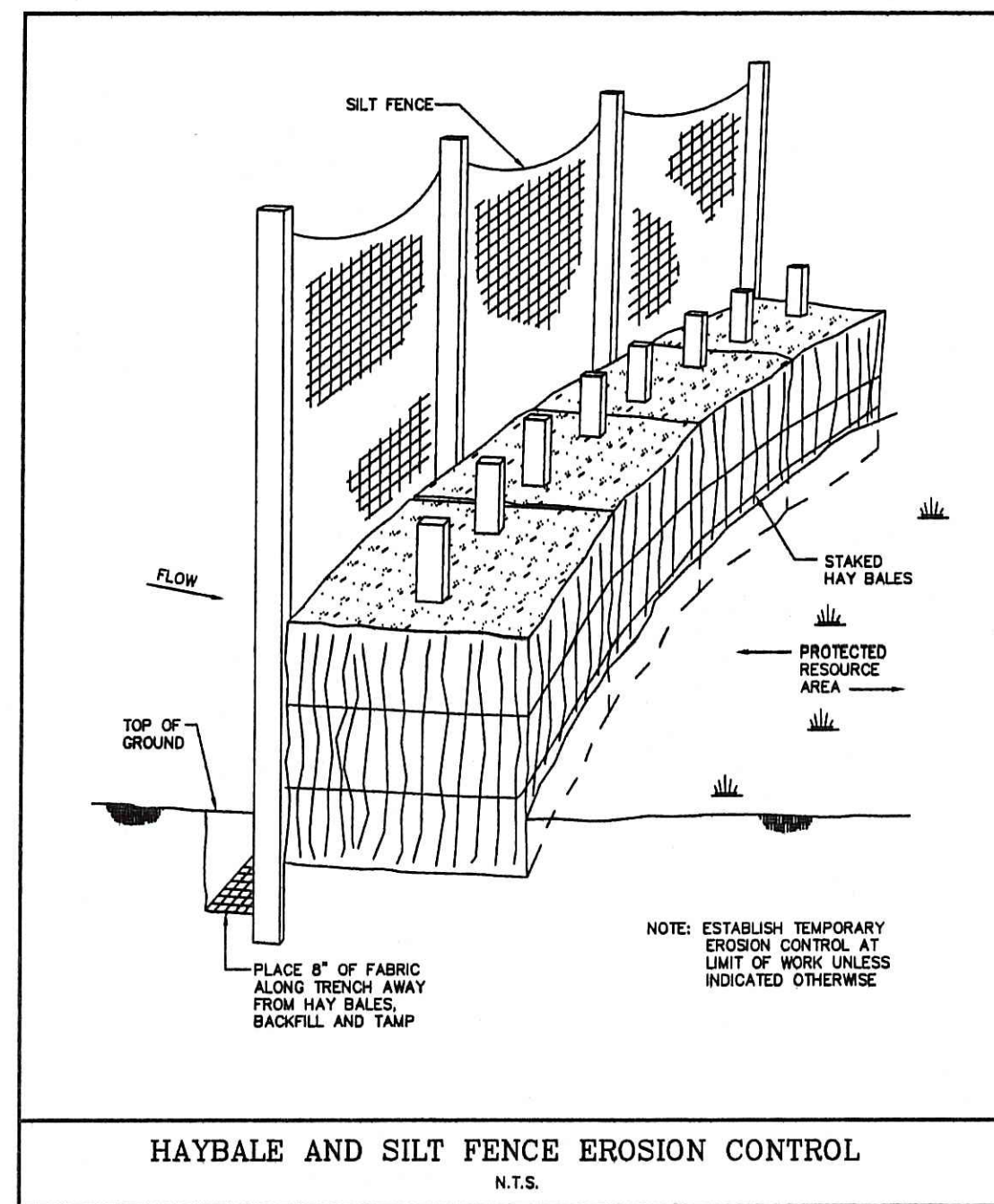
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM	NKH
		REVIEW	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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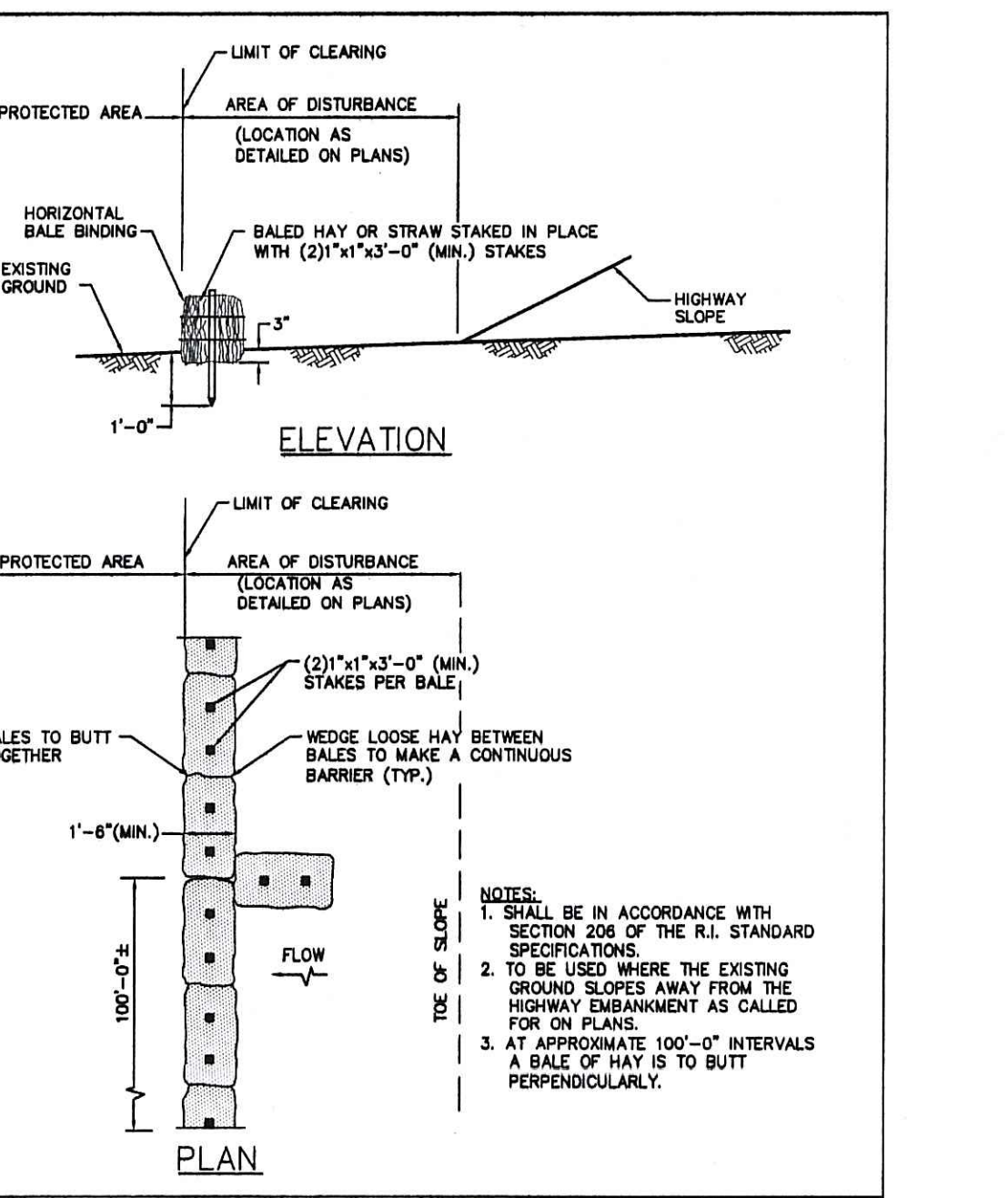
Charles A. Hingorany

SEDIMENTATION AND EROSION CONTROL

SHEET	SCALE
5	1"=40'



NOTES:
 CATCH BASINS ON SLOPING ROADS SHOULD NOT BE RINGED. ON SLOPING ROADS HAY BALES SHOULD BE PLACED UP SLOPE OF THE BASINS TO CONTAIN FLOWS. REFER TO THE HAY BALE DETAIL FOR DRAINAGE CHANNEL PROTECTION TO BE USED AT SLOPING ROADWAY GUTTERS PRIOR TO PAVEMENT INSTALLATION.



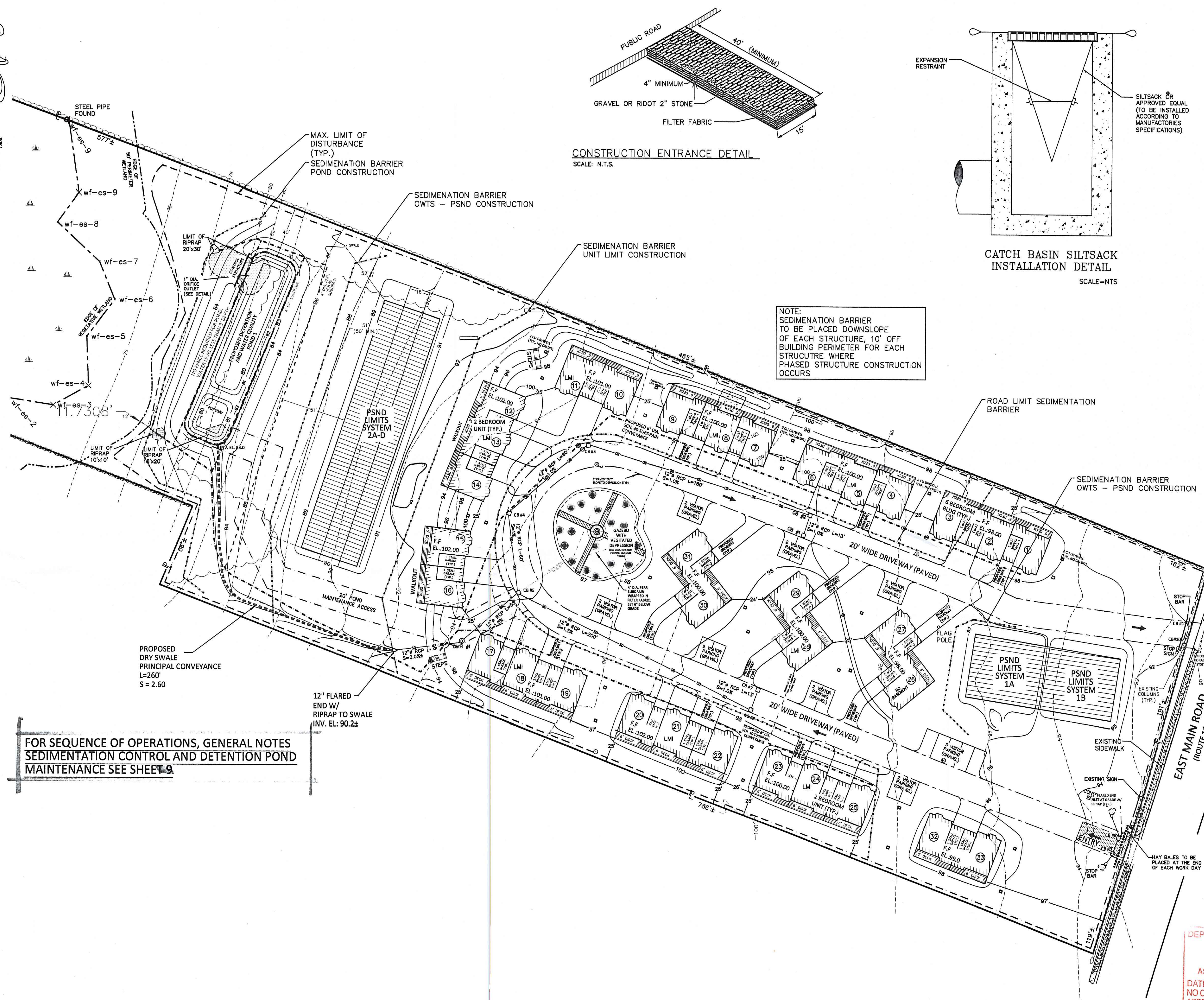
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS	NO.	BY	DATE

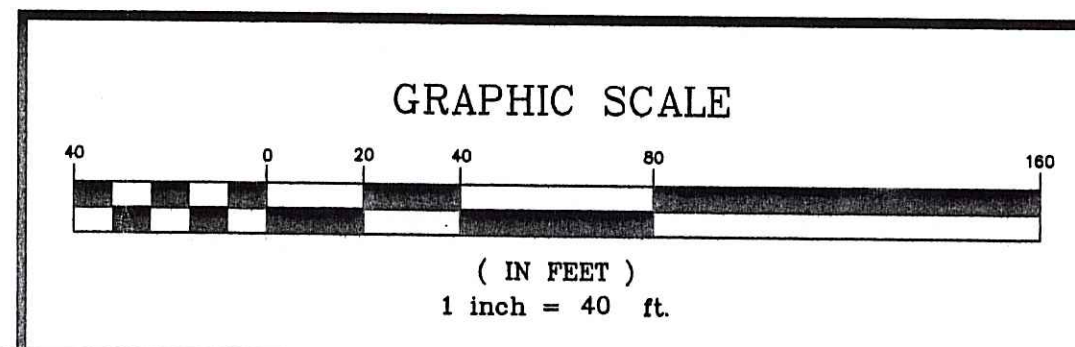
BALED HAY EROSION CHECK

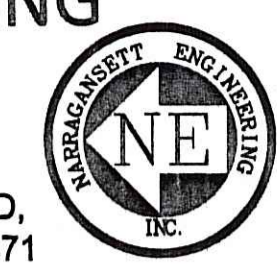
James A. Caputo *John J. Caputo* *John J. Caputo*
 SUPERVISOR ENGINEER ENGINEER

JUNE 15, 1998
 R.I. STANDARD 9.1.0



FOR SEQUENCE OF OPERATIONS, GENERAL NOTES
 SEDIMENTATION CONTROL AND DETENTION POND
 MAINTENANCE SEE SHEET 9





Environmental Management
 MAR 21 2011
 Office of Water Resources

SHEET TITLE
POND DETAILS
TOWN HOUSES - SITE LAYOUT

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
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LOCATION
 3352 EAST MAIN ROAD
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PLAT: 24 LOT: 11

03.11.11
 KAMAL R. HINGORANY
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060203	12-15-10	NKH	KH

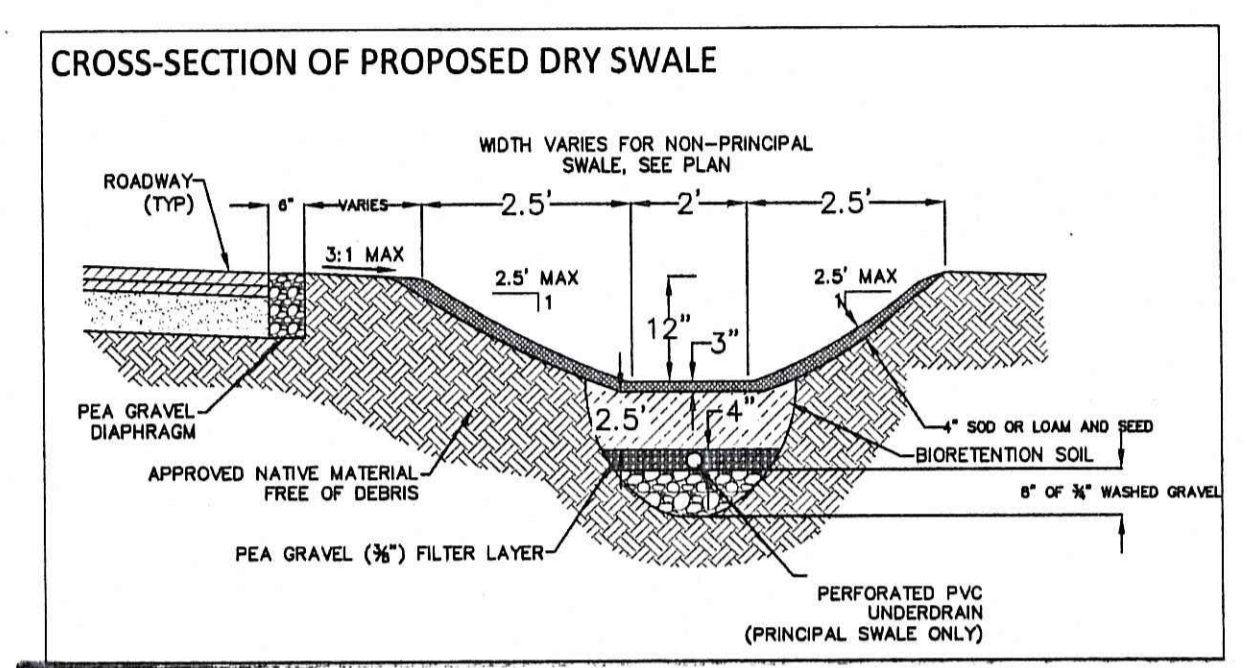
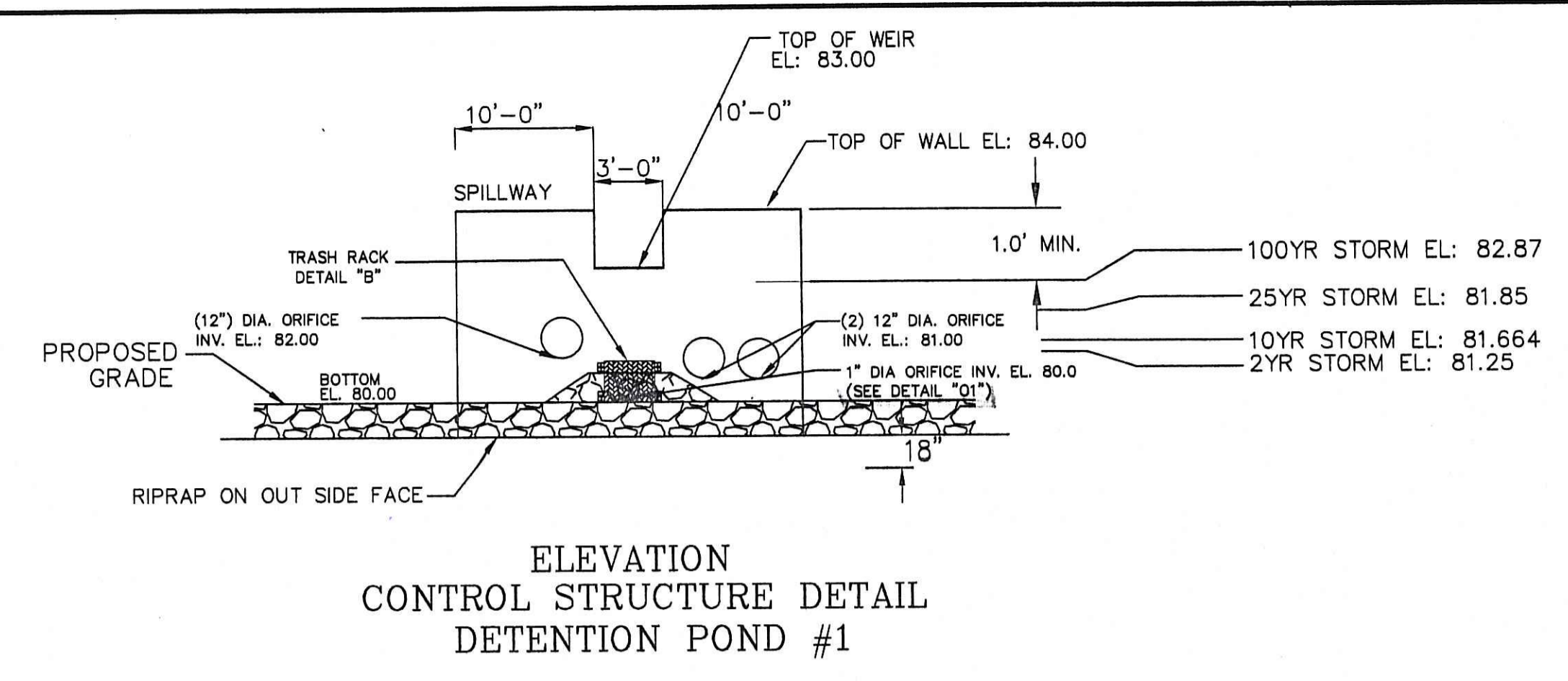
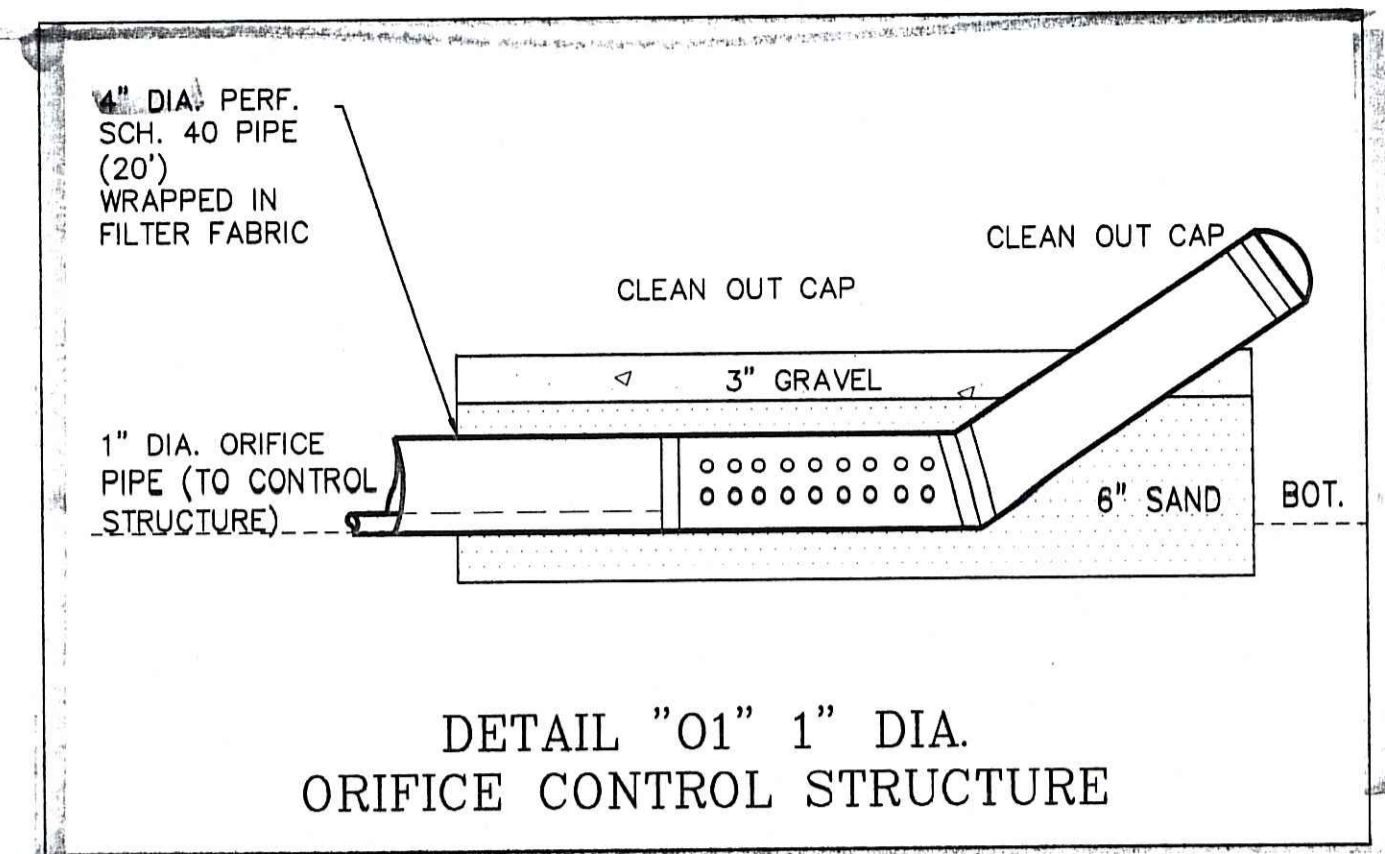
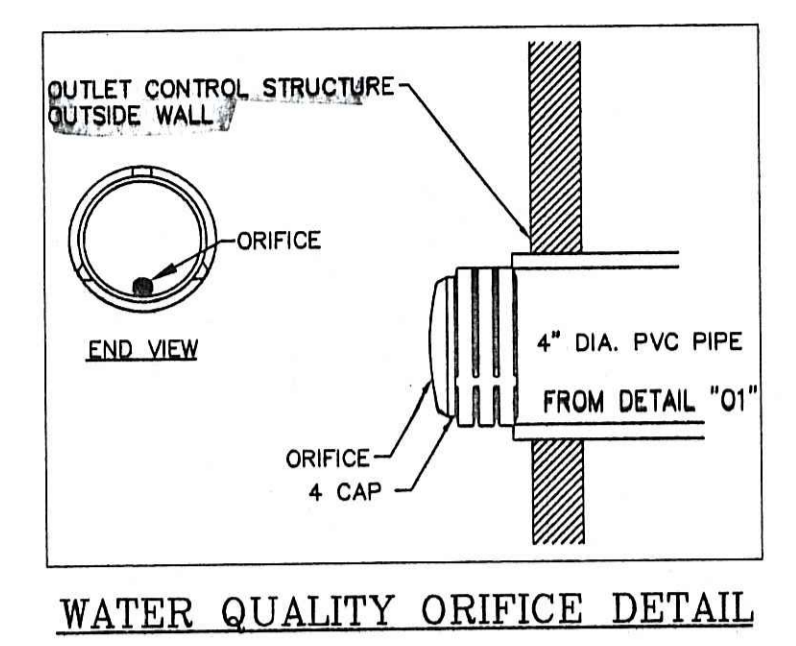
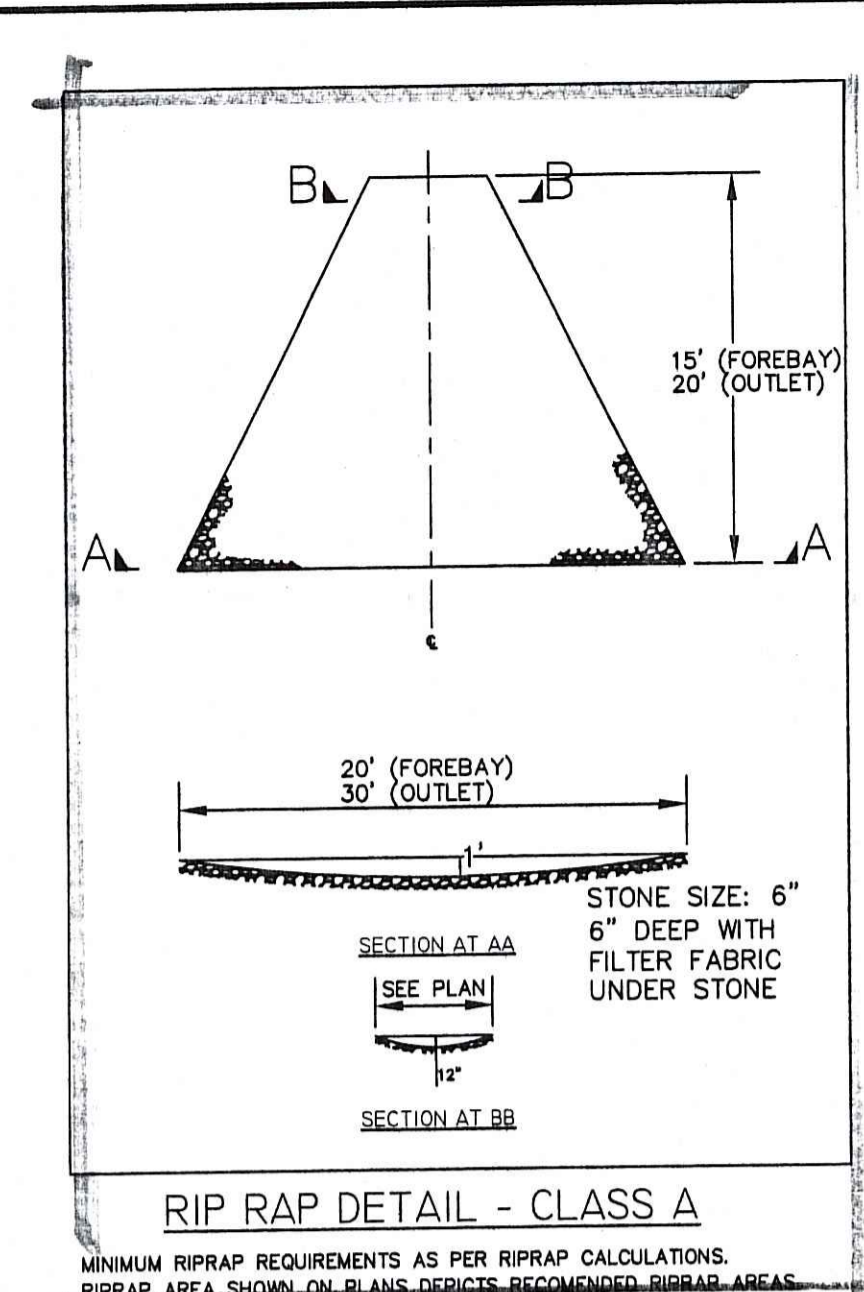
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM REVIEW	NKH

NO.	DATE	DESCRIPTION	BY

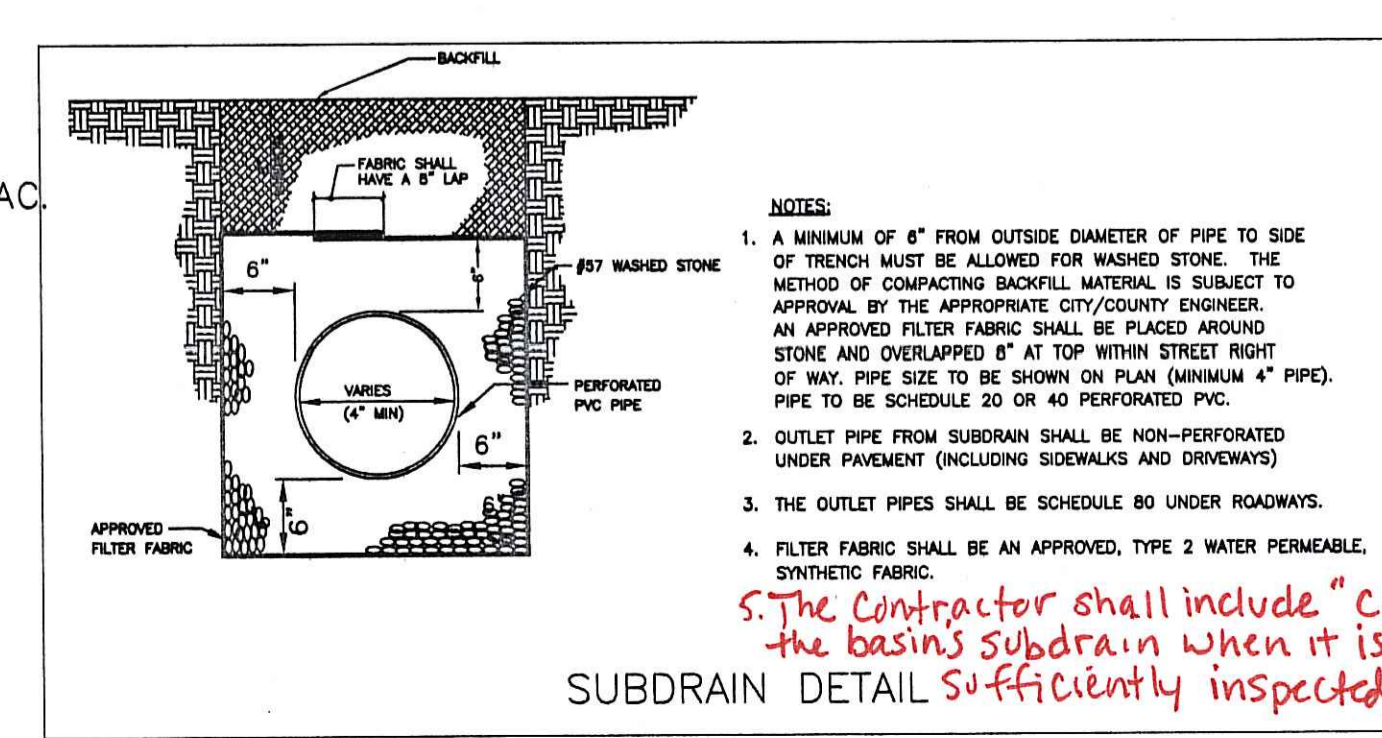
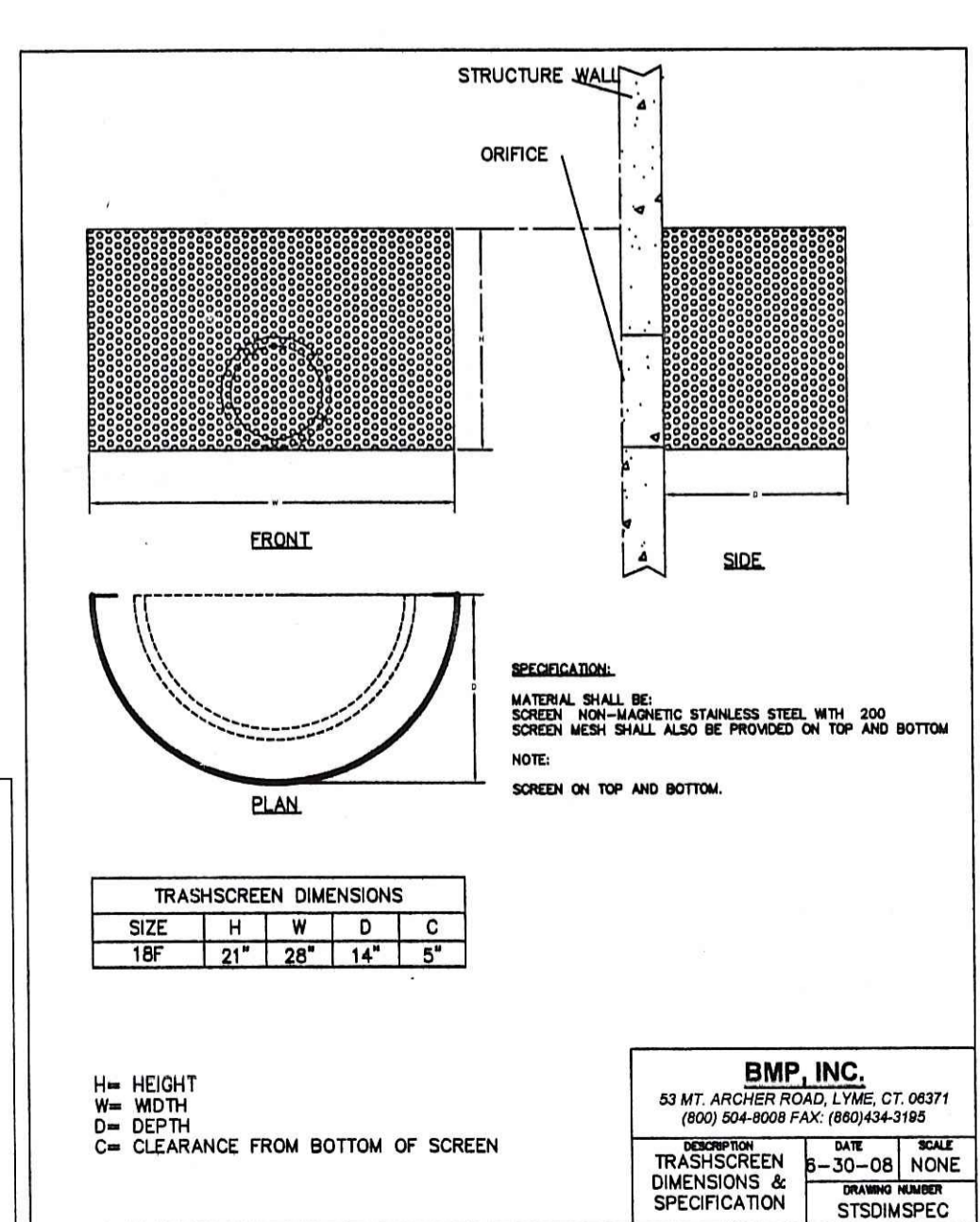
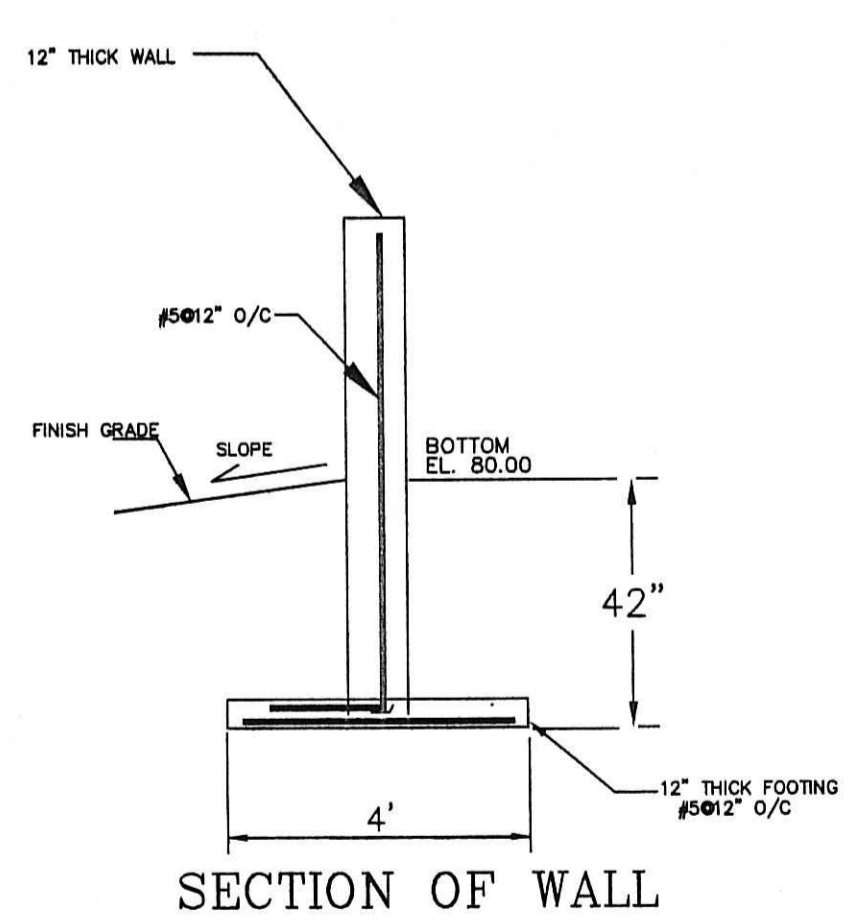
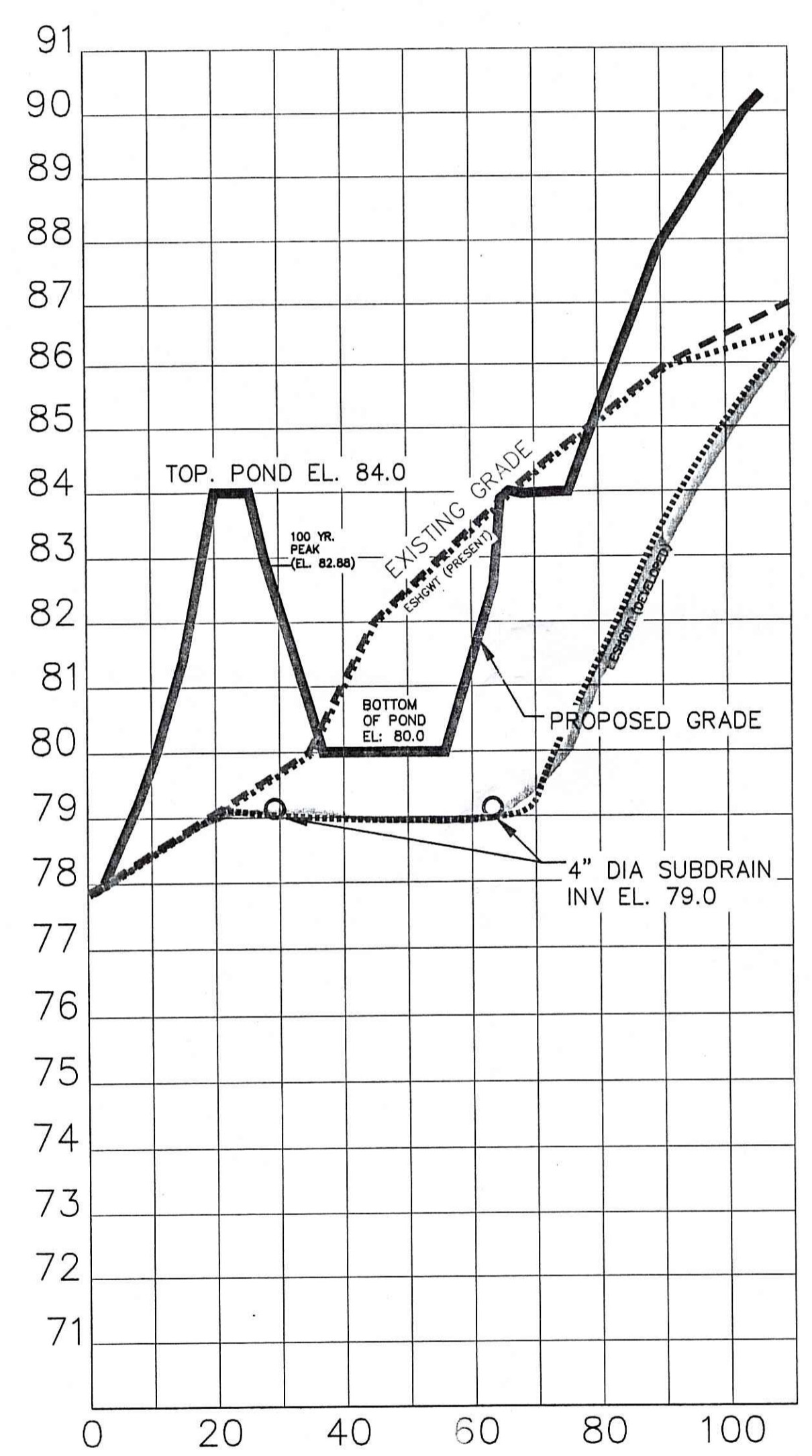
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 27 2011 FILE # 10-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hingorany

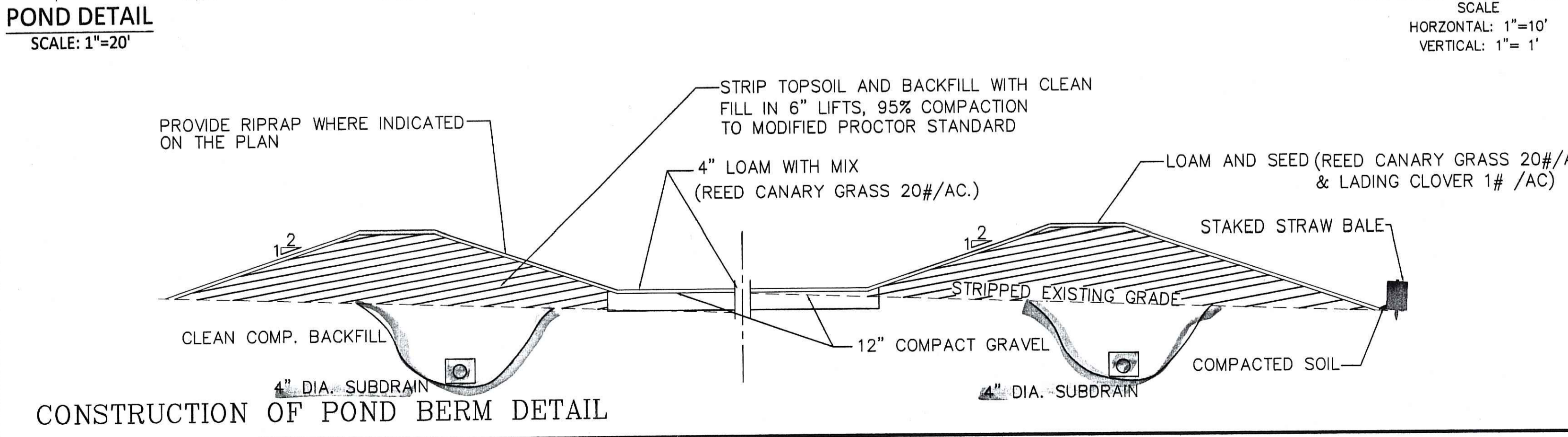
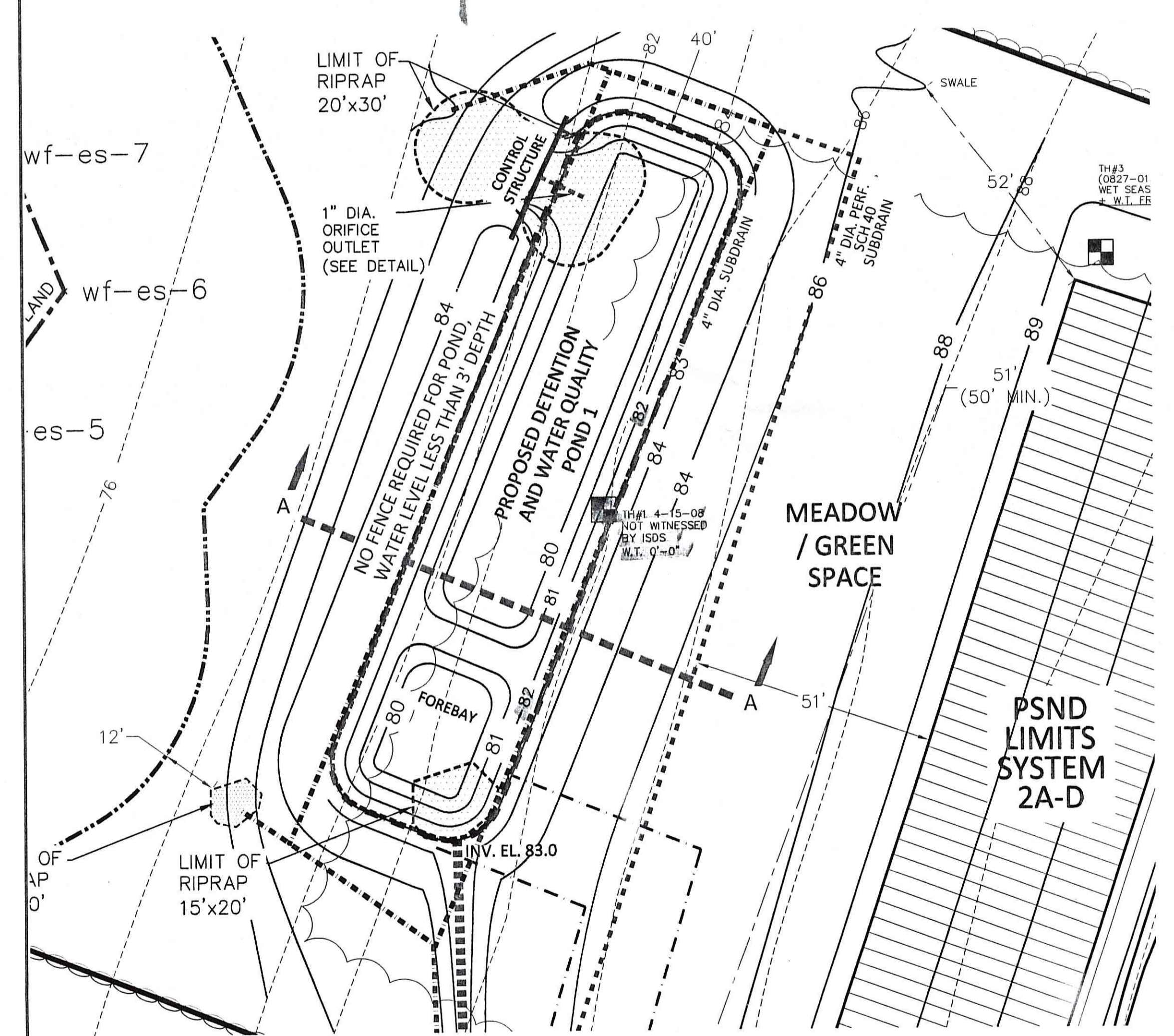
SHEET	SCALE
6	NTS

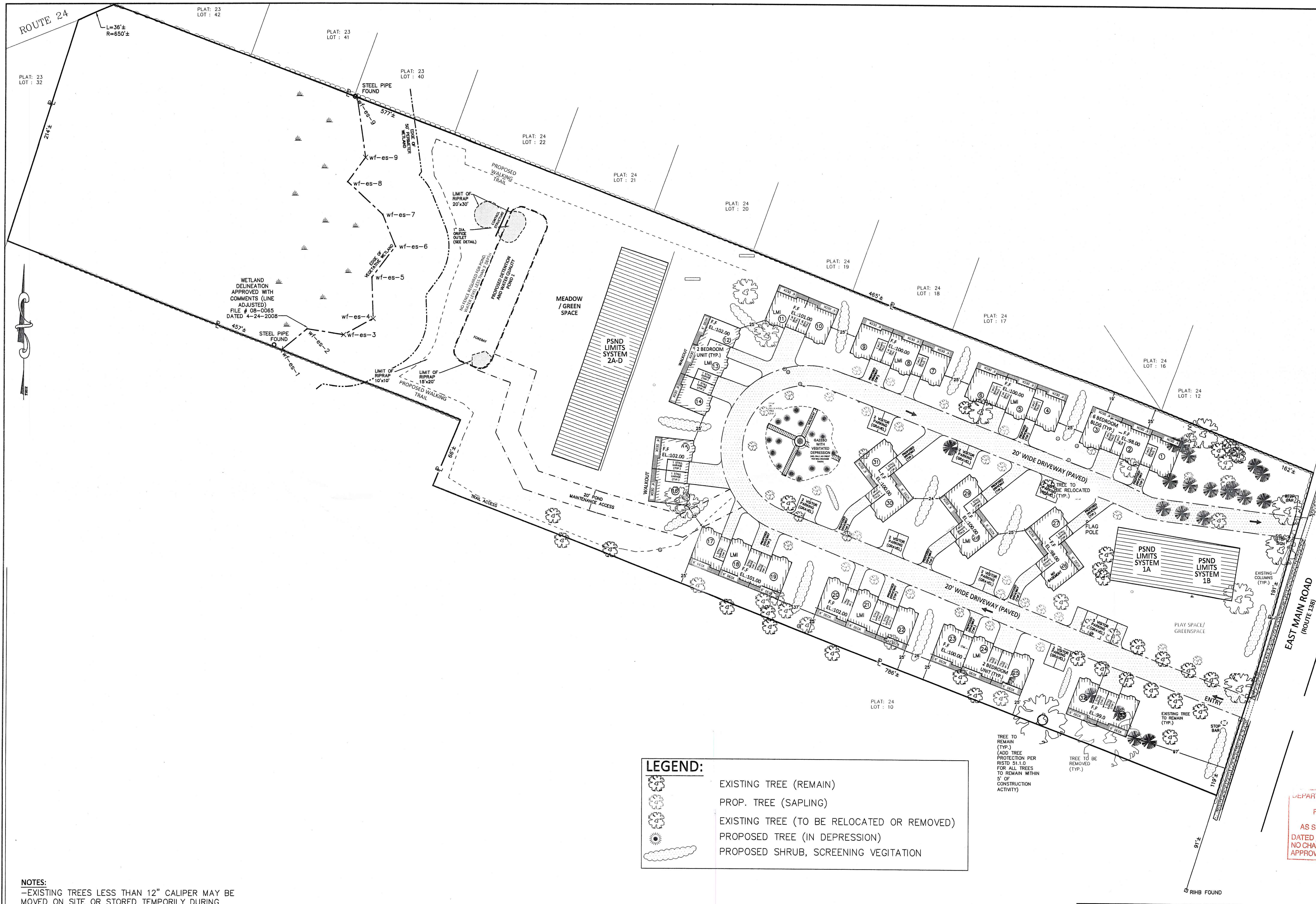


- A. THE SWALES SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON TO PREVENT ESTABLISHMENT OF WOODY GROWTH, ETC.
- B. GRASS VEGETATION SHALL NOT BE CUT SHORTER THAN (4) FOUR INCHES.
- C. BARE SPOTS AND ERODED AREAS WITHIN THE SWALE SHALL BE RESEDED IMMEDIATELY FOLLOWING OBSERVATION.
- D. SWALE SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS. ALL TRASH AND OTHER LITTER SHALL BE REMOVED DURING INSPECTIONS.
- E. SEDIMENTS SHALL BE REMOVED FROM THE SWALES AT LEAST ONCE PER YEAR, OR MORE FREQUENTLY IF SEDIMENTS ARE OVER-TOPPING CHECK DAMS.
- F. ACCUMULATED SEDIMENTS IN SWALES SHALL BE REMOVED MANUALLY TO PREVENT DAMAGE TO SWALE.
- G. ALL PRINCIPAL SWALES ARE DESIGNED FOR 100 YEAR STORM WHILE SELECTED MINOR SWALES ARE DESIGNED FOR 25 YEAR STORM EVENTS.



NOTES:
 1. A MINIMUM OF 6" FROM OUTSIDE DIAMETER OF PIPE TO SIDE OF TRENCH MUST BE ALLOWED FOR WASHED STONE. THE METHOD OF COMPACTING BACKFILL MATERIAL IS SUBJECT TO APPROVAL BY THE APPROPRIATE CITY/COUNTY ENGINEER. AN APPROVED FILTER FABRIC SHALL BE PLACED AROUND STONE AND OVERLAPPED 6" AT TOP WITHIN STREET RIGHT OF WAY. PIPE SIZE TO BE SHOWN ON PLAN (MINIMUM 4" PIPE). PIPE TO BE SCHEDULE 20 OR 40 PERFORATED PVC.
 2. OUTLET PIPE FROM SUBDRAIN SHALL BE NON-PERFORATED UNDER PAVEMENT (INCLUDING SIDEWALKS AND DRIVEWAYS).
 3. THE OUTLET PIPES SHALL BE SCHEDULE 80 UNDER ROADWAYS.
 4. FILTER FABRIC SHALL BE AN APPROVED, TYPE 2 WATER PERMEABLE, SYNTHETIC FABRIC.
 5. The Contractor shall include "clean out ports" at sufficient places along the length of the basins subdrain when it is installed in order to ensure that the subdrain may be sufficiently inspected/cleaned during future maintenance operations.



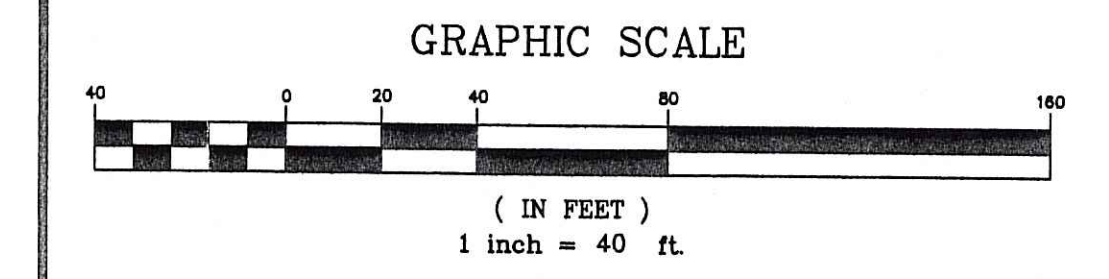


NOTES:
 -EXISTING TREES LESS THAN 12" CALIPER MAY BE MOVED ON SITE OR STORED TEMPORILY DURING CONSTRUCTION.
 -DETAILED LANDSCAPING WILL BE PREPARED PRIOR TO CONSTRUCTION, THIS PLAN IS FOR GENERAL CONCEPT ONLY

LEGEND:

- EXISTING TREE (REMAIN)
- PROP. TREE (SAPLING)
- EXISTING TREE (TO BE RELOCATED OR REMOVED)
- PROPOSED TREE (IN DEPRESSION)
- PROPOSED SHRUB, SCREENING VEGETATION

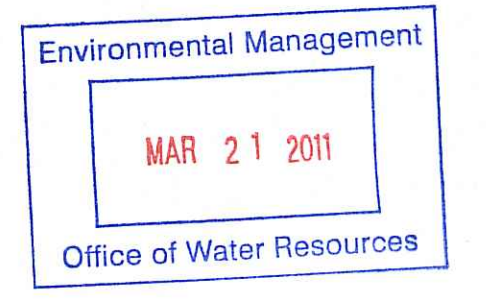
TREE TO REMAIN (TYP.)
 (ADD TREE PROTECTION PER RSTD 511.0 FOR ALL TREES TO REMAIN WITHIN 5' OF CONSTRUCTION ACTIVITY)



NARRAGANSETT ENGINEERING INC.
 MAIN OFFICE:
 3102 EAST MAIN ROAD,
 PORTSMOUTH, RI 02871
 TEL : (401) 683-6630



www.nel-cds.com



SHEET TITLE

GENERAL TREE PLAN

PROJECT OWNER/ APPLICANT
 APOLLO BROTHERS LLC
 C/O NEI
 3102 EAST MAIN RD
 PORTSMOUTH RI 02871

LOCATION
 3352 EAST MAIN ROAD
 PORTSMOUTH, RI 02871

PLAT: 24 LOT: 11

03.11.11
 KAMAL R. HINGORANY
 REGISTERED PROFESSIONAL ENGINEER

PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

REVISIONS			
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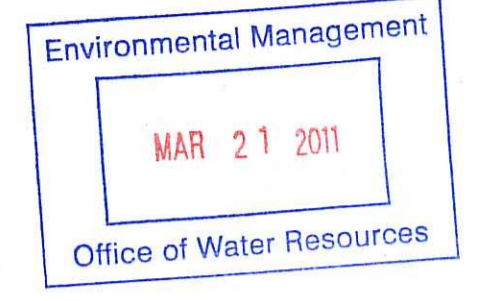
BASIC TREE / LANDSCAPE PLAN

SHEET	SCALE
7	1"=40'



MAIN OFFICE:
3102 EAST MAIN ROAD,
PORTSMOUTH, RI 02871
TEL : (401) 683-6630

www.nei-cds.com



SHEET TITLE

**DETAILS
SEA FARE INN**

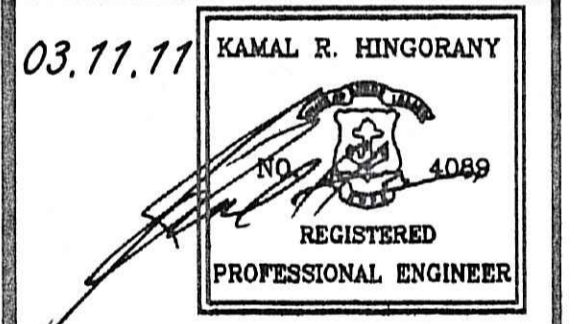
**TOWN HOUSES -
SITE LAYOUT**

PROJECT OWNER/ APPLICANT
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION
3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24

LOT: 11



PROJECT #	DATE	DRAWN	CHECK
060203	12-21-10	NKH	KH

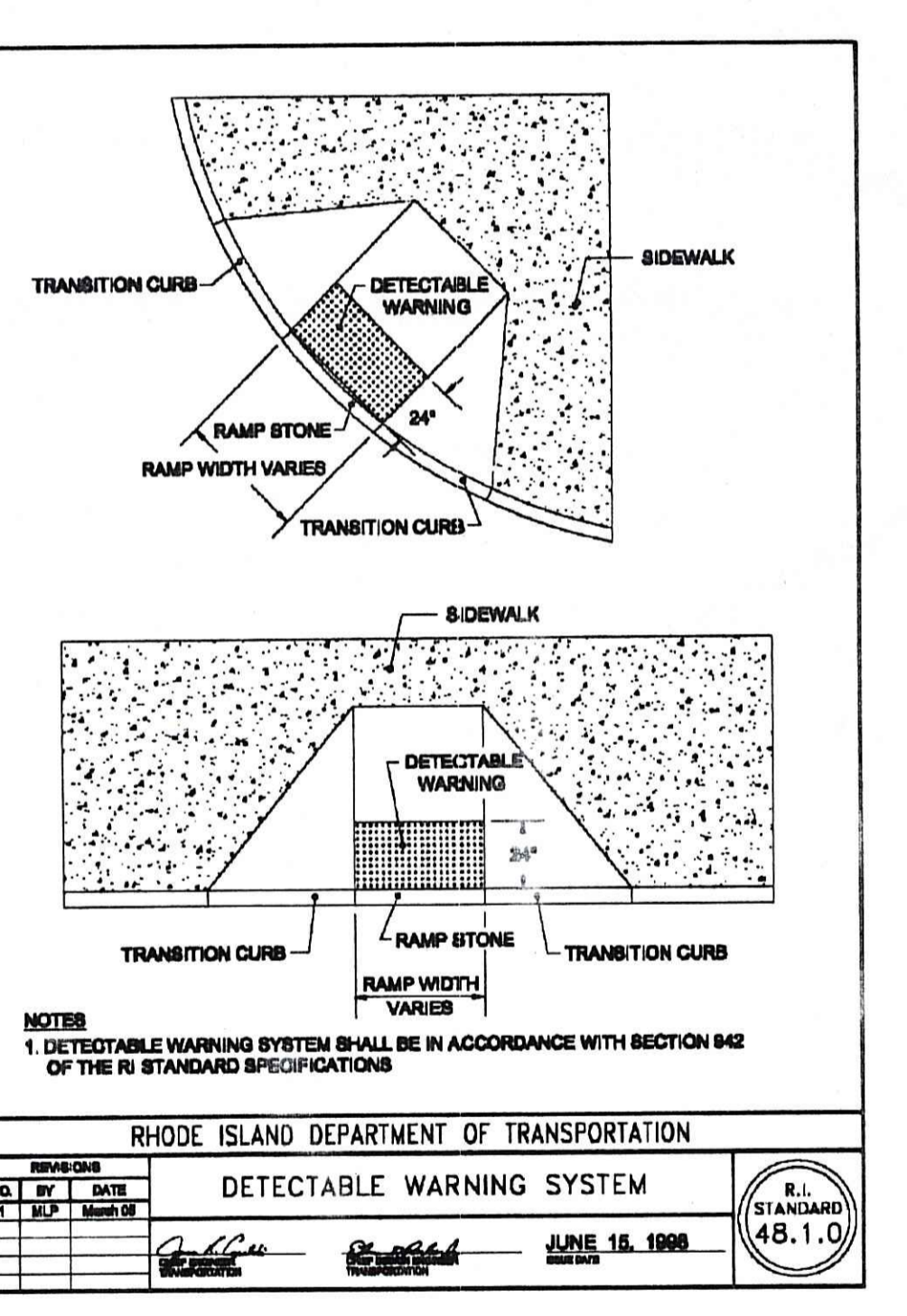
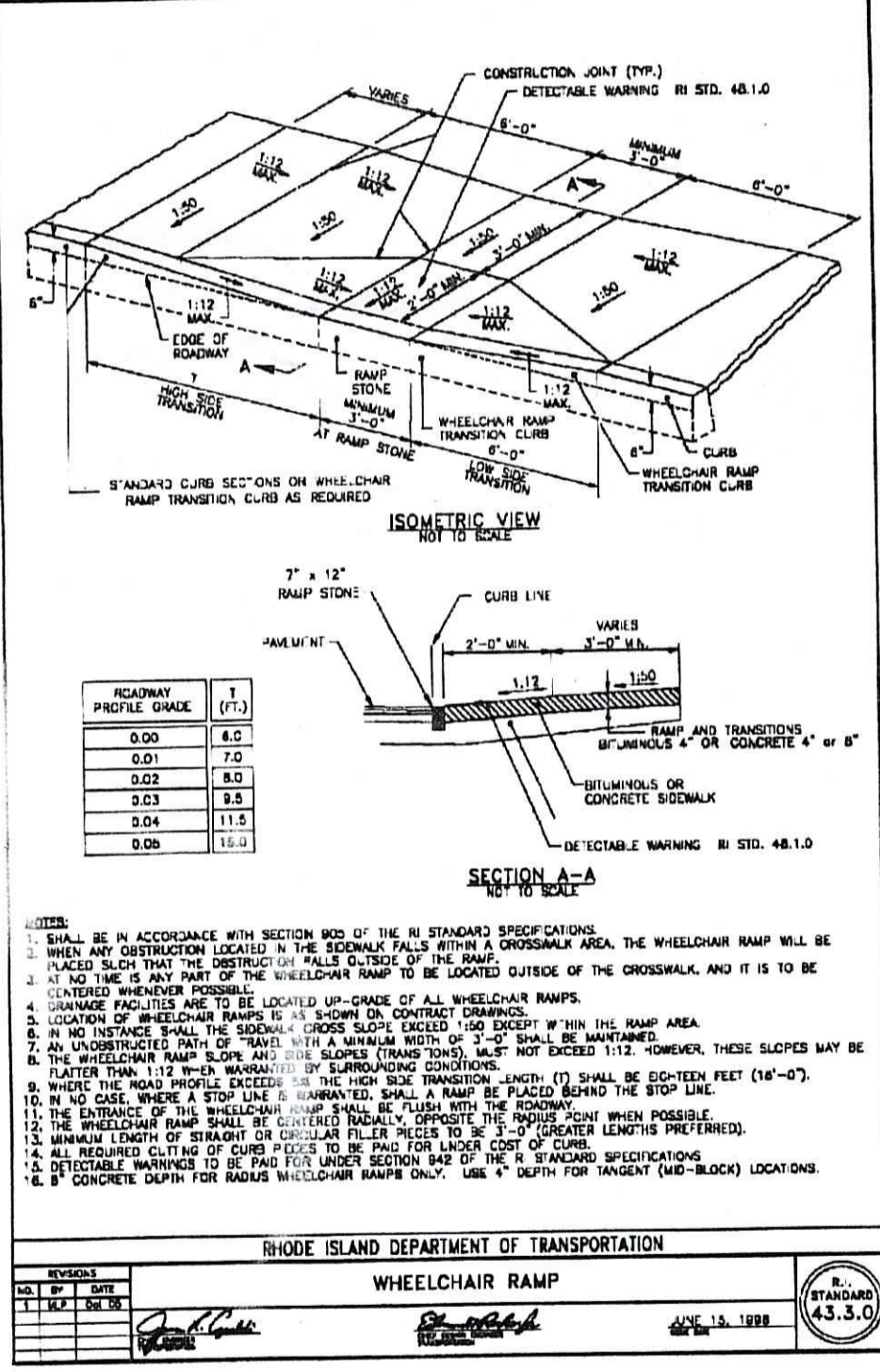
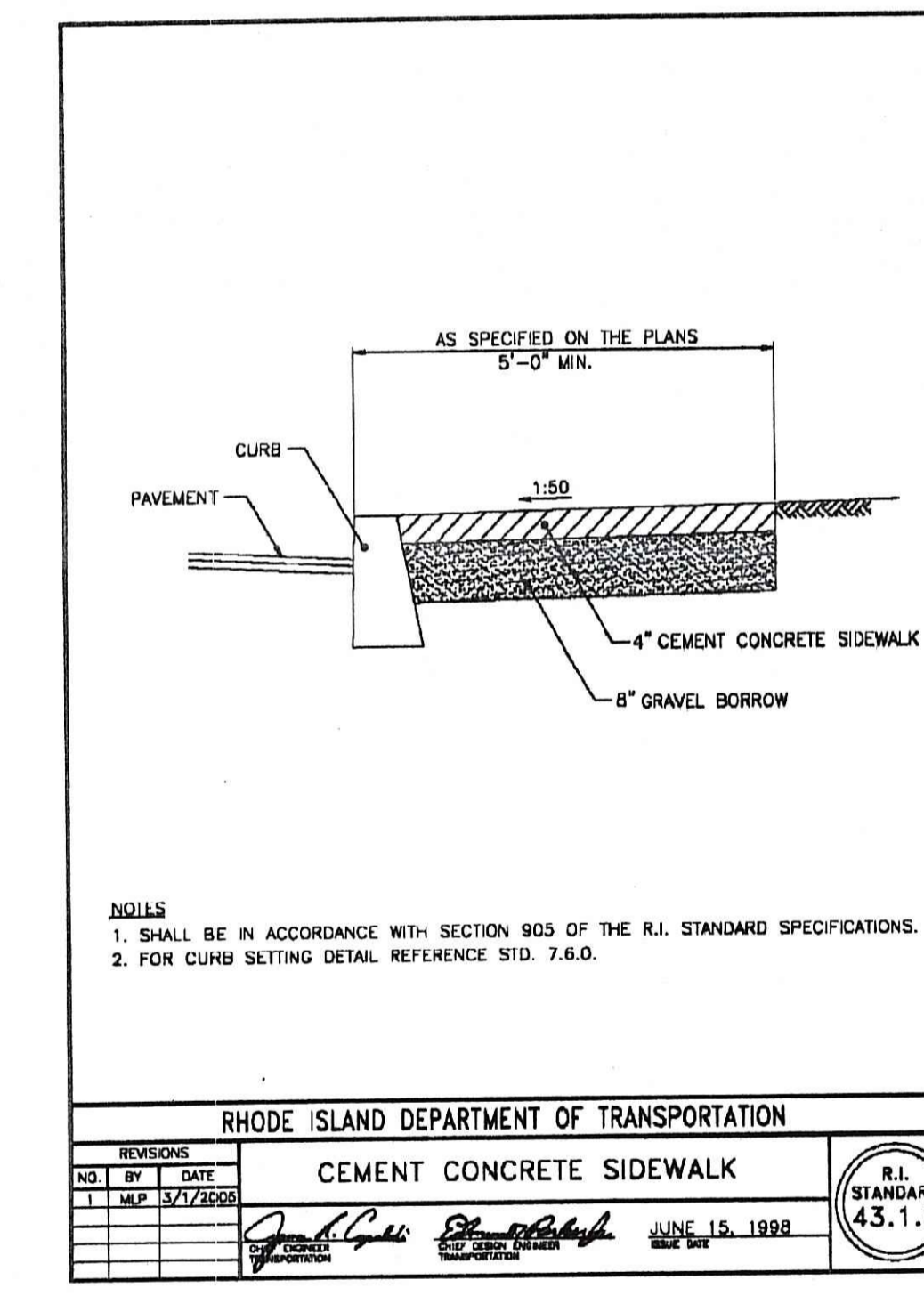
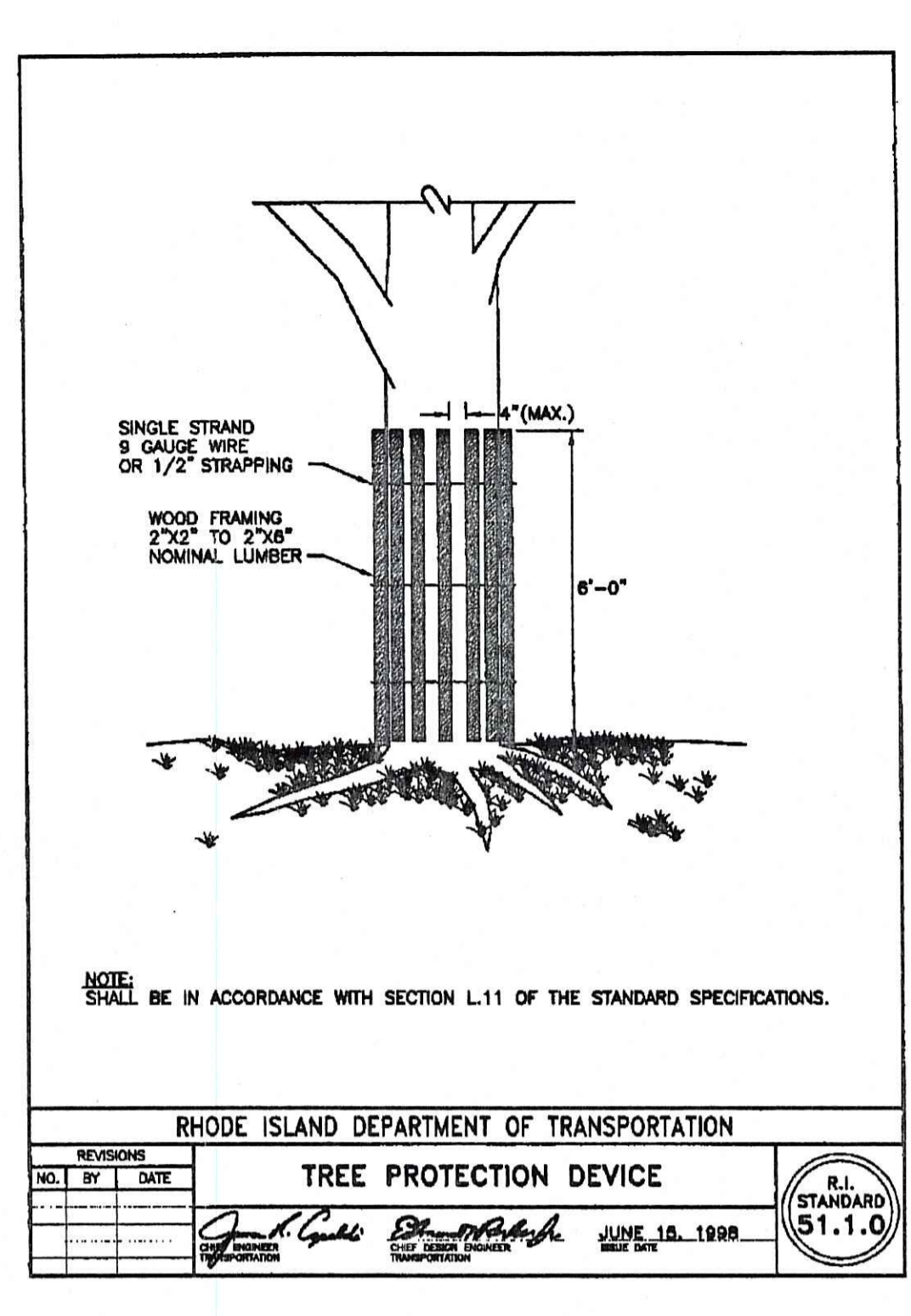
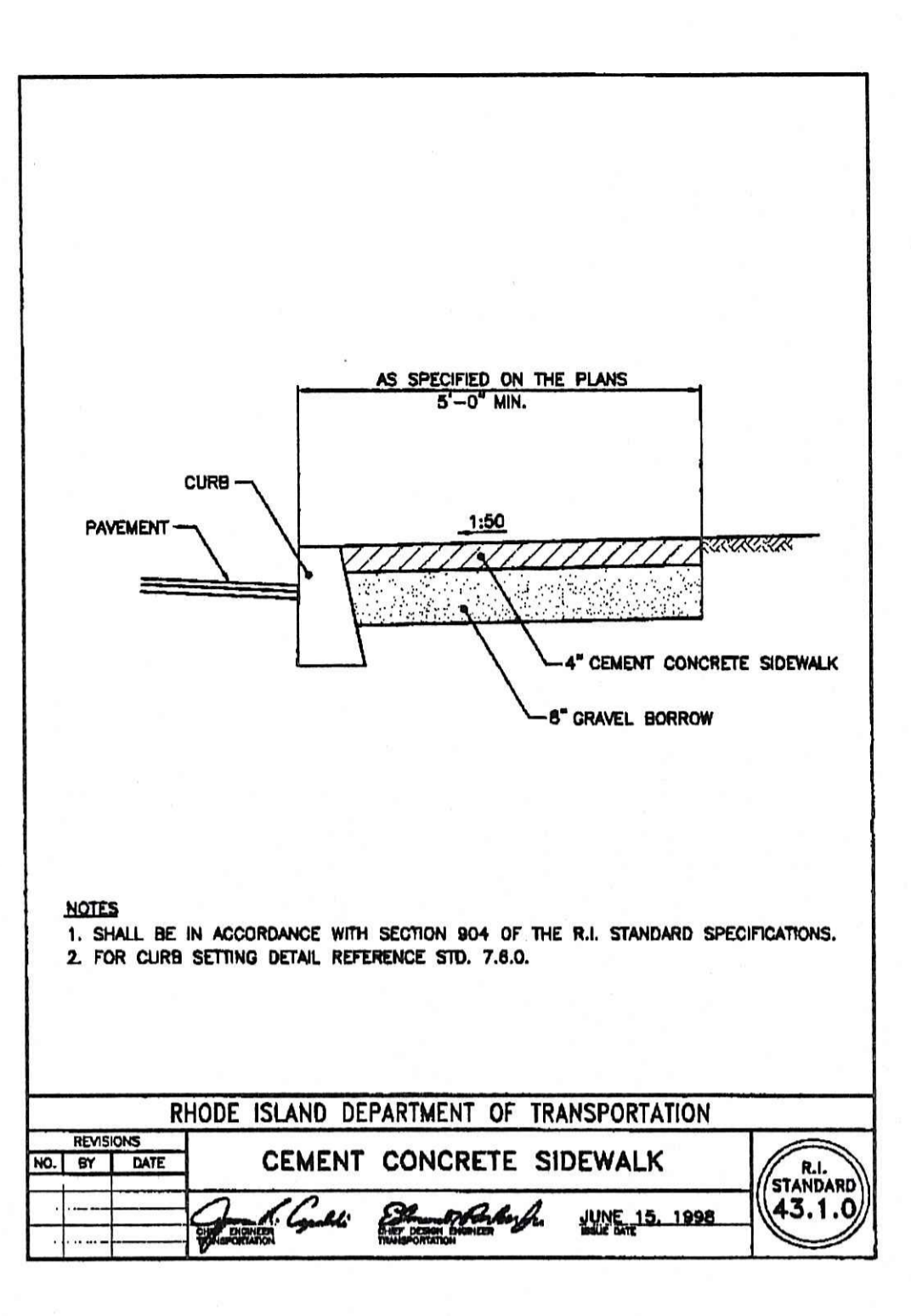
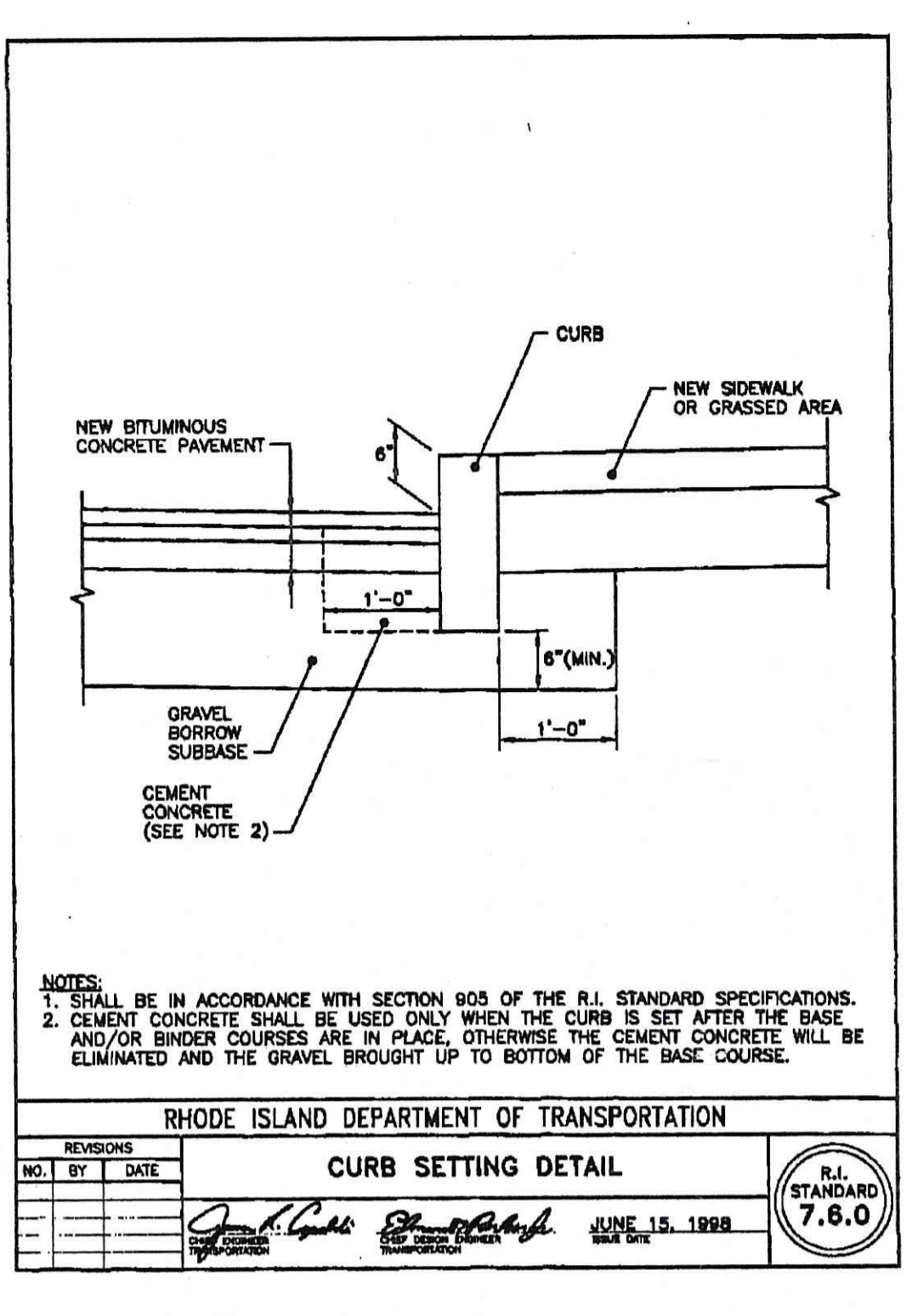
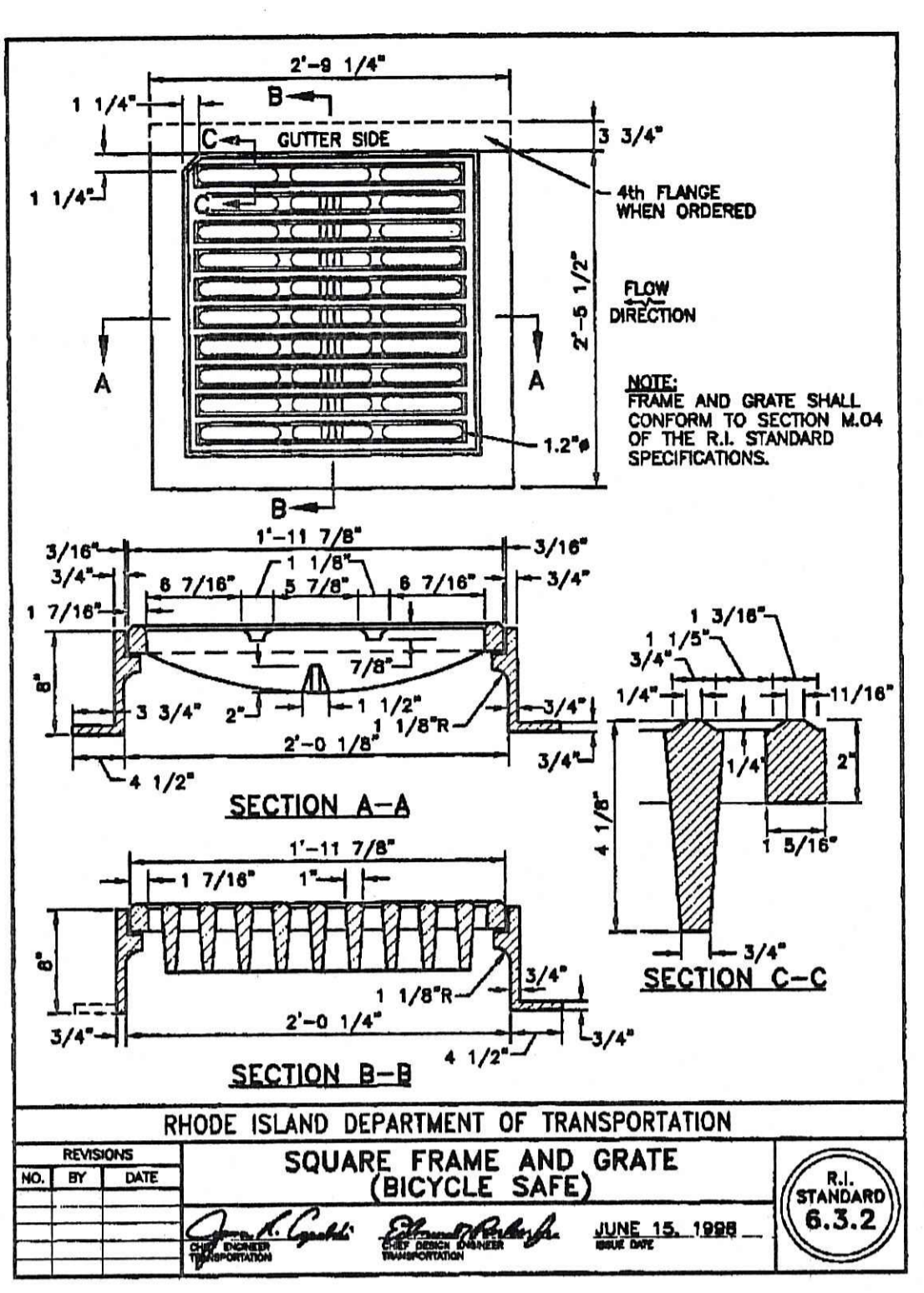
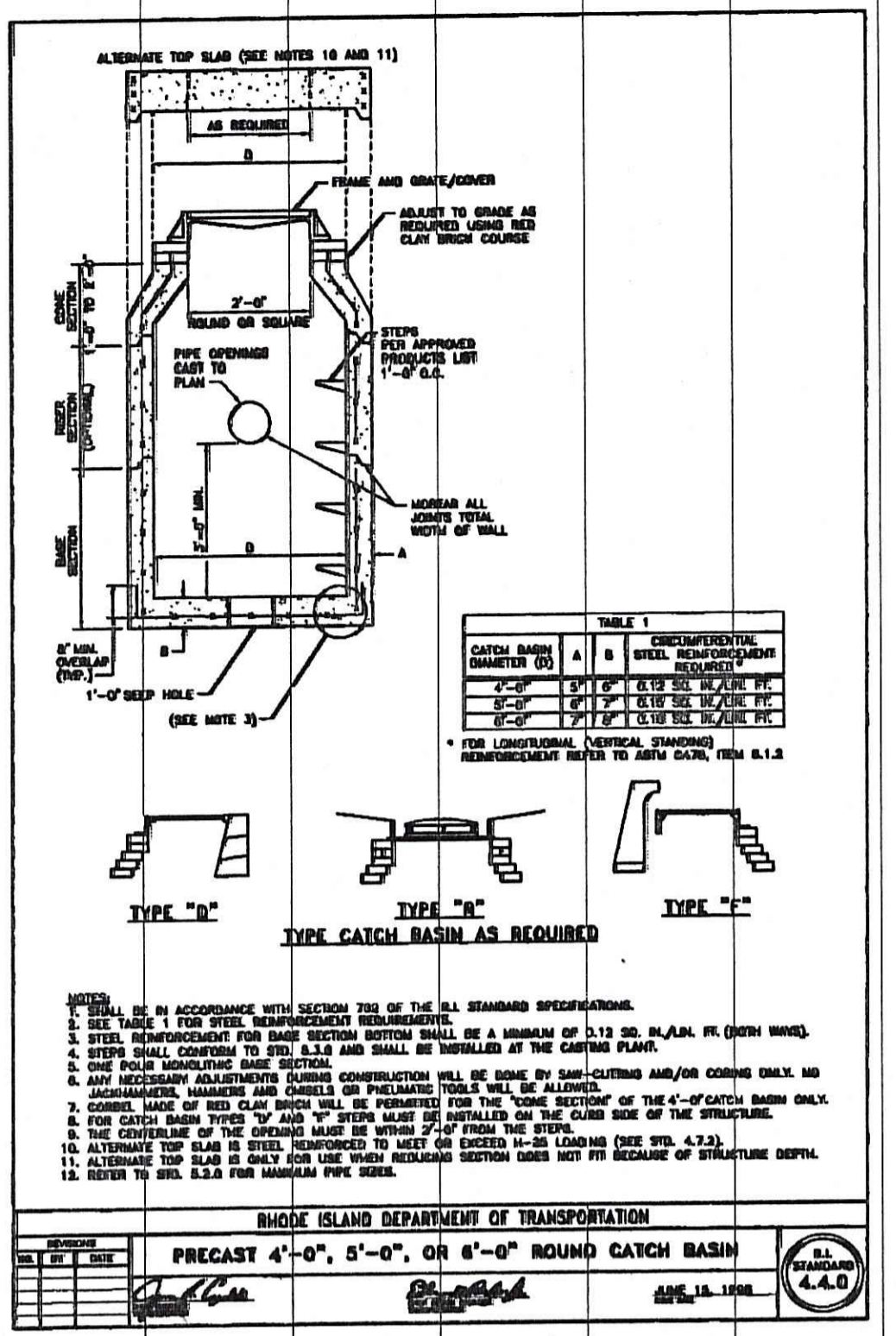
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Charles A. Houbert

CONSTRUCTION DETAILS

SHEET	SCALE
8	NTS



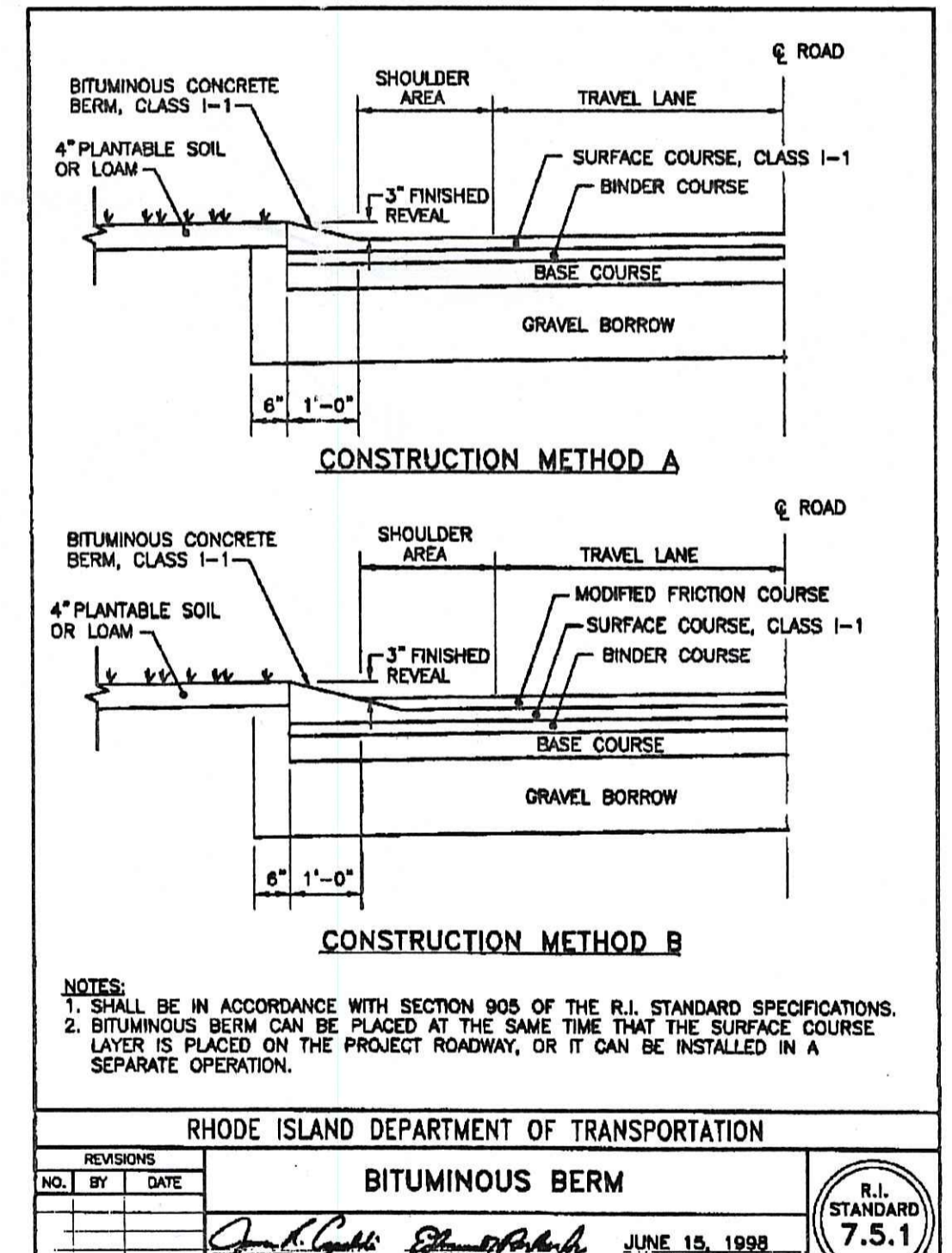
PRECAST CONCRETE FLARED END SECTION

SECTION X-X

SECTION Y-Y

END VIEW

DIA	DIMENSIONS							ONE LAYER BITUM. OVER CENTER OF CURB	
	A	B	C	D	E	F	R1	R2	T
12	4	2-0	4-1	6-1	2-0		2"	2"	2"
18	9	2-3	3-10	6-1	3-0	2-5	1-3 1/2	12	8 1/4"
24	9 1/2	3-7 1/2	2-6	6-2 1/2	4-0	2-9 1/4	1-4 1/4	1-2	3"



SEQUENCE OF CONSTRUCTION:

1. ALL SEDIMENTATION CONTROL MEASURES SHALL BE PLACED BEFORE START OF ANY SOIL STRIPPING IS COMMENCED.
2. INSTALL SILT FENCE AS SHOWN ON THE PLAN.
3. INSTALL CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS.
4. CONSTRUCT SETTLING WATER QUALITY AND DETENTION PONDS AS SHOWN ON THE PLANS.
5. EXCAVATE FOR FOUNDATIONS, ROADS, OWTS, ETC.
6. PERFORM ROUGH GRADING
7. INSTALL LEACHING FIELD.
8. PAVE PARKING LOT AND FINAL GRADE ALL DISTURBED AREA, LOAM AND SEED ALL DISTURBED AREAS.

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
2. IT SHALL ALSO BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
3. ALL WORK PERFORMED HEREIN SHALL BE GOVERNED BY THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (REVISION OF 2004)" WITH ALL CORRECTIONS AND ADDENDA AND THE 2006 R.I. STANDARD DETAILS WITH ALL CORRECTIONS WORK COMMENCEMENT.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE PLANS. THAT INCLUDES ANY UTILITY REPAIR REQUIRED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
7. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. "DIG SAFE" SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION.
8. IN ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
9. ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFF SITE, OUTSIDE OF PROJECT AREA.

EROSION CONTROL & SOIL STABILIZATION:

1. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR GREATER THAN 7 DAYS OF TIME, SUCH AS THE INACTIVE WINTER SEASON.
2. DURING EACH CONSTRUCTION YEAR ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE HYDRO-SEEDED OR PROTECTED BY THAT DATE.
3. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
4. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 lbs./Ac.
5. THE CONTRACTOR MUST REPAIR AND/OR RE-SEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
6. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RIDOT STANDARD SPECIFICATIONS SECTION 202.
7. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHALL BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
8. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.
9. THE OWNER AGREES TO ALLOW THE BUILDING INSPECTOR TO INITIATE ANY ADDITIONAL EROSION OR SEDIMENT CONTROL MEASURES NECESSARY TO MINIMIZE SILTATION OR SEDIMENTATION.
10. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL EXITING THE PROJECT SITE.
11. DURING CONSTRUCTION THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
12. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
13. ADDITIONAL HAY BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
14. ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES WHEN DIRECTED BY THE ENGINEER.
15. REFERENCE THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.
16. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY ROUGH GRADING, TEMPORARY HAY BALES AND SILT FENCE SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS.
17. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.
18. STRIP AND STOCK PILES AS SHOWN ON THE PLAN.
19. **PREVENTIVE MEASURES**
-40 MIL. POLYETHYLENE LINER SHALL BE INSTALLED. LINER SHALL BE WELDED IN ONE PIECE AND INSTALLED AS SHOWN ON SHEET 5 OF 7 OF 6. NO MACHINE SHALL BE ALLOWED TO TRAVEL ON LINER ONCE PLACED UNTIL TWO FOOT OF STONE AND FRESH SOIL IS SPREAD.
20. **DUST CONTROL**
A. EXPOSED SOIL SURFACES SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
B. CALCIUM CHLORIDE SHALL ONLY BE USED AFTER SEEKING APPROVAL FROM THE PUBLIC WORKS DEPT.
21. **TRUCK TIRE CLEANING:** CONTRACTOR MUST CLEAN ALL STICKY SOIL FROM TRUCK TIRES BEFORE ALLOWING TRUCKS TO EXIT THE SITE.
22. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE THE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.

STORM DRAINAGE INSPECTION, MAINTENANCE AND REPAIR (I, M & R):

RESPONSIBILITIES:

-CONTRACTOR SHALL BE RESPONSIBLE FOR I, M & R. FOR ALL DRAINAGE BMPS PROPOSED FOR THE SUBJECT PROJECT SITE ON THESE PLANS FOR ENTIRE PERIOD OF CONSTRUCTION, AND UP TO ONE YEAR AFTER THE CONSTRUCTION IS COMPLETED, AND ACCEPTANCE PROJECT BY ENGINEER DESIGNATED BY THE OWNER. OWNER OF THE RECORD SHALL BE RESPONSIBLE ON YEAR AFTER ACCEPTANCE -ENTIRELY RESPONSIBLE FOR THE LONG-TERM MAINTAINANCE OF THE SITE DRAINAGE AND SWEEPING OF THE PARKING SHALL BE OWNER OF THE RECORD OF PLAT 24 LOT 11.

1. INSPECTION BEFORE ACCEPTANCE AND MAINTENANCE OF SITE:

-ROUTINE MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM SHALL OCCUR AS FOLLOWS:
-THE CONTRACTOR SHALL BE RESPONSIBLE FOR CATCH BASIN AND SEDIMENT TRAPS INSPECTIONS AND MAINTENANCE UNTIL ALL CONSTRUCTION IS COMPLETE. HE WILL INSPECT ALL CONSTRUCTED CATCH BASIN 1ST OF THE MONTH FOR SEDIMENTS COLLECTIONS.
-WHENEVER 12 INCHES OF SILT HAS ACCUMULATED, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
-HAYBALES OR SILT FENCE ENCLOSURES WILL BE INSTALLED AROUND ALL CATCH BASINS UNTIL PAVEMENT IS PLACED.
-IMMEDIATELY FOLLOWING THE CONSTRUCTION OF EACH CATCH BASIN, A SILT SACK SHALL BE INSTALLED BETWEEN THE CATCH BASIN FRAME AND GRATE. THE SILT SACK SHALL BE REGULARLY MAINTAINED BY REMOVAL AND CLEANING AS REQUIRED TO PREVENT SILT FROM ENTERING THE DRAINAGE SYSTEM. THE SILT SACK SHALL REMAIN IN PLACE UNTIL THE TOP COURSE OF PAVEMENT HAS BEEN PLACED.
-MOWING OF SIDE SLOPES OF THE DETENTION POND EMBANKMENTS SHALL BE PERFORMED AT LEAST ONCE DURING GROWING SEASON (AFTER AUGUST 15TH) TO ENSURE THAT WOODY GROWTH DOES NOT TAKE ROOT, IT THE PROJECT IS PROLONGED TO STOPPED TEMPORARILY.
-ALL THRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES AND POND. THIS WORK SHALL BE ACCOMPANIED BY THE OWNER OF RECORD. MAINTENANCE OF THIS TYPE IMPROVES THE PHYSICAL APPEARANCE OF THE FACILITY AND PREVENTS BLOCKAGE OF INLET/OUTLET STRUCTURES, THEREBY AVERTING FAILURE OF THE STRUCTURE. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, IF THE PROJECT IS PROLONGED OR STOPPED TEMPORARILY, PREFERABLY SPRING AND FALL.

2. INSPECTION AFTER ACCEPTANCE OF SITE:

-THE CATCH BASINS, SEDIMENT TRAPS, WESTERLY POND AND 13 EASTERLY STORM WATER STORAGE TANKS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND PHYSICAL CONDITION AT LEAST ANNUALLY TO INVESTIGATE REMOVAL OF SEDIMENT.
-WHENEVER 6 INCHES OF SILT HAS ACCUMULATED IN CATCH BASINS, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

3. MAINTENANCE AFTER ACCEPTANCE OF SITE:

-THE GRASSED AREAS OF ANY BASIN SHOULD BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS MUST BE RESEDED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY PREVENTING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.
-THE VEGETATED CONDITION OF THE LEVEL SPREADERS OF DOWNSTREAM OF DRAINAGE DISCHARGE SHALL BE INSPECTED ANNUALLY. ANY EROSION OF CHANNELS OR BANKS, ANY EXCESSIVE SEEPAGE OR ANY LOSS OF VEGETATIVE COVER SHALL BE PROMPTLY REPAIRED USING STANDARD LANDSCAPING PRACTICES.

-MOWING OF SIDE SLOPES OF THE DETENTION POND EMBANKMENTS SHALL BE PERFORMED AT LEAST ONCE DURING GROWING SEASON (AFTER AUGUST 15TH) TO ENSURE THAT WOODY GROWTH DOES NOT TAKE ROOT.

-ALL THRASH AND LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER FACILITY INCLUDING INLET AND OUTLET STRUCTURES AND POND. MAINTENANCE OF THIS TYPE IMPROVES THE PHYSICAL APPEARANCE OF THE FACILITY AND PREVENTS BLOCKAGE OF INLET/OUTLET STRUCTURES, THEREBY AVERTING FAILURE OF THE STRUCTURE. THIS MUST BE ACCOMPLISHED AT LEAST TWICE PER YEAR, PREFERABLY SPRING AND FALL.

- DURING THE FIRST SIX (6) MONTHS OF THE OPERATION, INSPECTION SHALL BE EVERY RAIN FALL EVENT, TO CHECK FOR THE CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE YEARLY.

- IF STANDING WATER IS OBSERVED WITHIN THE BASIN MORE THAN THREE (3) DAYS AFTER THE RAINFALL EVENT, THEN THE FAILURE OF THE BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR OR REPLACEMENT.

- THE PRESENCE OF A LINE IN WESTERLY POND BENEATH THE BASIN BOTTOM AND THE SIDES SLOPES REQUIRES THAT GREAT CARE BE UNDERTAKEN IN PERFORMING SEDIMENT REMOVAL, AS WELL AS OTHER MAINTENANCE OPERATIONS, WITHIN THE BASIN. THEREFORE, SEDIMENT REMOVAL SHALL BE HAND DUG, OR CONDUCTED WITH EQUIPMENT, THAT WILL MINIMIZE ADVERSELY IMPACTING THE LINER.

-SEDIMENTS SHALL BE REMOVED FROM WESTERLY POND AND 13 HOLDING TANKS ON EASTERLY SIDE DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY 5 YEARS THEREAFTER DURING THE FIRST SIX (6) MONTHS OF OPERATION, INSPECTIONS SHALL BE ACCOMPLISHED AFTER EVERY RAINFALL EVENT, TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTION SHALL BE CONDUCTED, AT MINIMUM, ANNUALLY.

-ALL PAVED AREAS SHALL BE SWEEPED AT LEAST TWICE A YEAR, INCLUDING 20' ACCESS ROAD. SWEEPING SHALL OCCUR IN SPRING & FALL. SEDIMENTS COLLECTED SHALL BE DISPOSED OF OFF SITE AT TOWN APPROVED FACILITY.

4. REPAIR AFTER ACCEPTANCE OF SITE:

-IN AREA SHOULD BE SET ASIDE WITHIN THE DEVELOPMENT SITE FOR THE PURPOSE OF SEDIMENT DISPOSAL (WHERE APPLICABLE). THE DISPOSAL AREA SHOULD BE LARGE ENOUGH TO HANDLE THE VOLUME OF TWO CLEAN-OUT CYCLES. THE SITE CAN ALSO SERVE AS OPEN SPACE AND RECREATION AREAS.

-IF BLOCKAGE OF A BASIN OUTLET STRUCTURE OCCURS IT MAY BE NECESSARY TO DEWATER THE POND FOR ACCESS TO THE BLOCKAGE THE DEWATERING FLOW MUST BE ADEQUATELY FILTERED PRIOR TO DISCHARGE INTO RECEIVING WATER BODY TO REMOVE SUSPENDED SOLIDS.

-POOLS OF STAGNANT WATER IN DETENTION BASINS INDICATE FAILURE TO EROSION AND SCOURING OF THE BASIN BOTTOM, PARTICULARLY NEAR AN INLET DEVICE. THIS DEFICIENCY SHOULD BE CORRECTED IMMEDIATELY TO PREVENT A NUISANCE HABITAT FOR INSECTS, ESPECIALLY MOSQUITOES.

REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY SHOULD BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.

CATCH BASIN MAINTENANCE AFTER CONSTRUCTION COMPLETION:

-CATCH BASINS AND SEDIMENT TRAPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND PHYSICAL CONDITION AT LEAST ANNUALLY WITH REMOVAL OF SEDIMENT AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CATCH BASIN AND SEDIMENT TRAPS INSPECTIONS AND MAINTENANCE UNTIL ALL CONSTRUCTION IS COMPLETE.

-WHENEVER 6 INCHES OF SILT HAS ACCUMULATED, THE SEDIMENTS SHALL BE REMOVED BY MECHANICAL OR VACUUM EQUIPMENT. ALL SEDIMENTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

-HAYBALES OR SILT FENCE ENCLOSURES WILL BE INSTALLED AROUND ALL CATCH BASINS UNTIL PAVEMENT IS PLACED.
-IMMEDIATELY FOLLOWING THE CONSTRUCTION OF EACH CATCH BASIN, A SILT SACK SHALL BE INSTALLED BETWEEN THE CATCH BASIN FRAME AND GRATE. THE SILT SACK SHALL BE REGULARLY MAINTAINED BY REMOVAL AND CLEANING AS REQUIRED TO PREVENT SILT FROM ENTERING THE DRAINAGE SYSTEM. THE SILT SACK SHALL REMAIN IN PLACE UNTIL THE TOP COURSE OF PAVEMENT HAS BEEN PLACED.

-INSPECTIONS OF ALL CATCH BASINS ON-SITE SHOULD OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES MUST BE CORRECTED IMMEDIATELY

-IF STANDING WATER IS OBSERVED WITHIN ANY OF THE TANKS COMPRISING POND #2 MORE THAN THREE (3) DAYS AFTER A RAINFALL EVENT, THEN FAILURE OF THE STRUCTURE HAS OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR OR REPLACEMENT.

- DURING THE FIRST SIX (6) MONTHS OF THE OPERATION, INSPECTION SHALL BE AVERY RAIN FALL EVENT, TO CHECK FOR THE CLOGGING OR, CONVERSELY, TOO RAPID A RELEASE. FOLLOWING THE FIRST SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT MINIMUM, TWICE YEARLY.

DRY SWALE PRINCIPAL CONVEYANCE AND SWALE ALONG NORTHERN PROPERTY LINE MAINTENANCE NOTES:

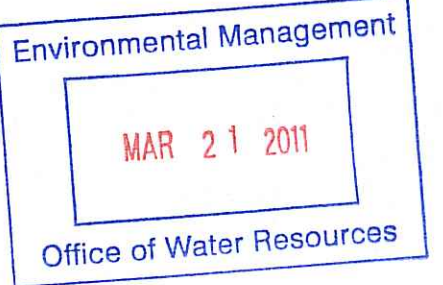
- A. THE SWALES SHALL BE MOWED AT LEAST ONCE PER GROWING SEASON TO PREVENT ESTABLISHMENT OF WOODY GROWTH, ETC.
- B. GRASS VEGETATION SHALL NOT BE CUT SHORTER THAN (4) FOUR INCHES.
- C. BARE SPOTS AND ERODED AREAS WITHIN THE SWALE SHALL BE RESEDED IMMEDIATELY FOLLOWING OBSERVATION.
- D. SWALE SHALL BE INSPECTED ON A SEMI-ANNUAL BASIS. ALL TRASH AND OTHER LITTER SHALL BE REMOVED DURING INSPECTIONS.
- E. SEDIMENTS SHALL BE REMOVED FROM THE SWALES AT LEAST ONCE PER YEAR, OR MORE FREQUENTLY IF SEDIMENTS ARE OVER-TOPPING CHECK DAMS.
- F. ACCUMULATED SEDIMENTS IN SWALES SHALL BE REMOVED MANUALLY TO PREVENT DAMAGE TO SWALE.
- G. ALL PRINCIPAL SWALES ARE DESIGNED FOR 100 YEAR STORM WHILE SELECTED MINOR SWALES ARE DESIGNED FOR 25 YEAR STORM EVENTS.

NARRAGANSETT ENGINEERING INC.



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www.nei-cds.com



SHEET TITLE

**DETAILS
SEA FARE INN**

**TOWN HOUSES -
SITE LAYOUT**

PROJECT OWNER/ APPLICANT

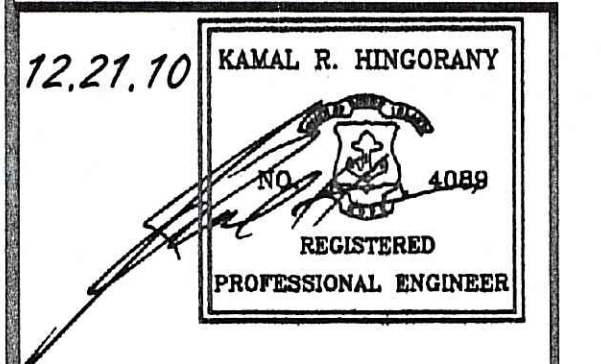
APOLLO BROTHERS LLC
C/O NEI
3102 EAST MAIN RD
PORTSMOUTH RI 02871

LOCATION

3352 EAST MAIN ROAD
PORTSMOUTH, RI 02871

PLAT: 24

LOT: 11



PROJECT # DATE DRAWN CHECK

060203 12-21-10 NKH KH

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	03.11.11	REVISED PER RIDEM	NKH
		REVIEW	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 27 2011 FILE # 10-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hester

SHEET SCALE
9 NONE