

\\pds\storage\demman\Engineers\Projects\1405-002 Ocean Road\dwg\1405-002 Wetlands PD 4-1-09.dwg, 4/15/2009 9:44:22 AM, Tracy, DMF, ePlot.pc3

### Sequence of Staging and Land Disturbing Activities

- CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SE & SC) ON SITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
- CONSTRUCTION TO BEGIN IN THE FALL OF 2009 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- SURVEY AND STAKE CENTERLINE OF THE LIMIT OF SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE.
- PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
- TOPSOIL IS TO BE STRIPPED FROM THE APPROVED AREAS AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEEDED.
- BEGIN LAYOUT OF HOUSE, GRADING, OWTS, AND UTILITIES.
- INSTALL DRYWELL AND SUBDRAINS AS PER APPROVED PLANS.
- ONCE THE INSTALLATION OF THE DRYWELL AND SUBDRAIN IS COMPLETE START CONSTRUCTION OF INDIVIDUAL DWELLING. CONSTRUCTION TO INCLUDE SURVEYING AND STAKING OF THE PROPOSED LIMIT OF CLEARING, INSTALLATION OF SEDIMENTATION BARRIERS, CLEARING AND GRUBBING FOR INDIVIDUAL DWELLINGS, REMOVAL OF TOPSOIL, GRADING, EXCAVATION FOR FOUNDATION, DWELLING CONSTRUCTION, WATER SERVICE INSTALLATION, DRIVEWAY INSTALLATION AND LANDSCAPING.
- FINISH PERMANENT STABILIZATION AND REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

### Non-Structural Measures

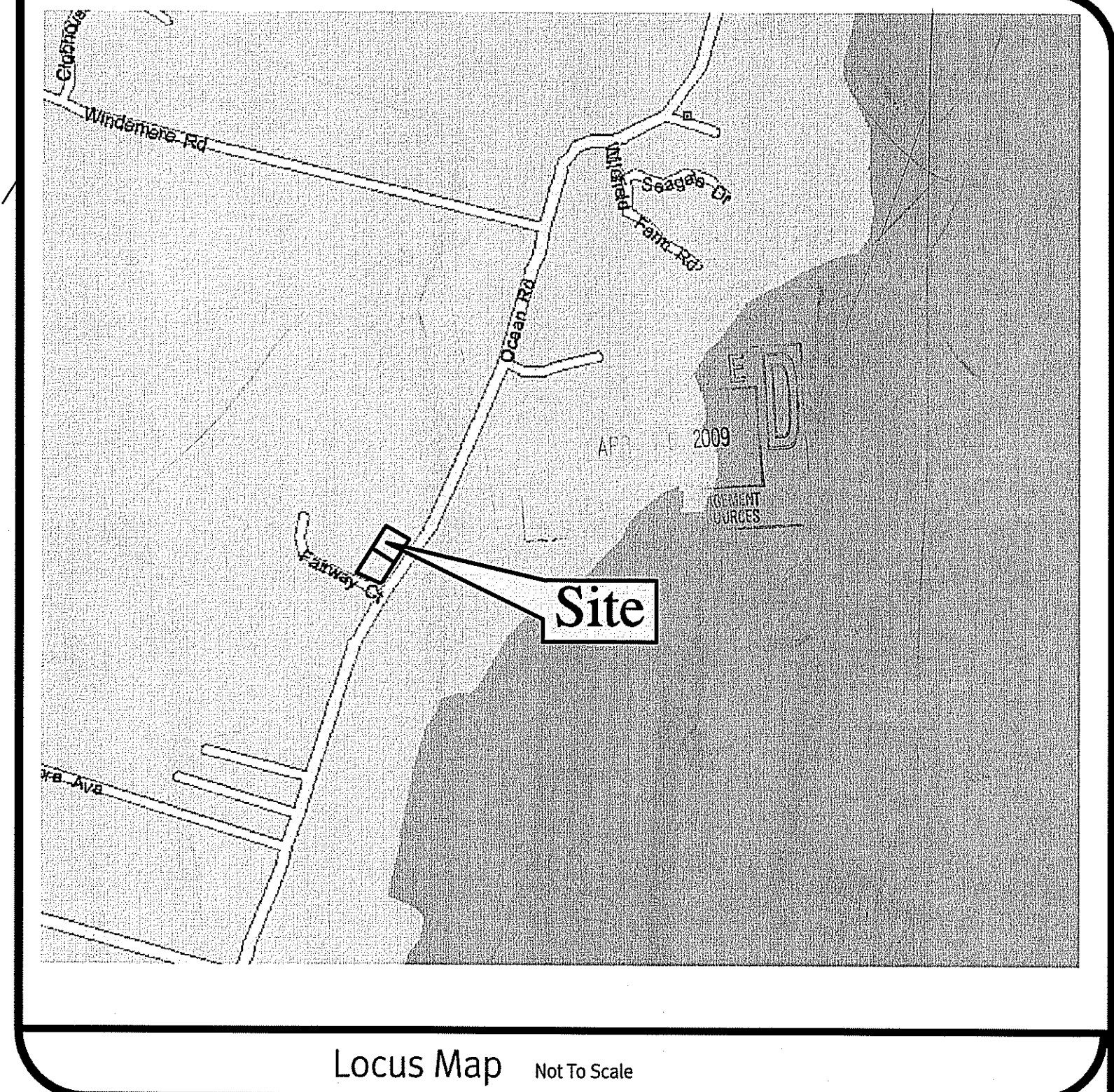
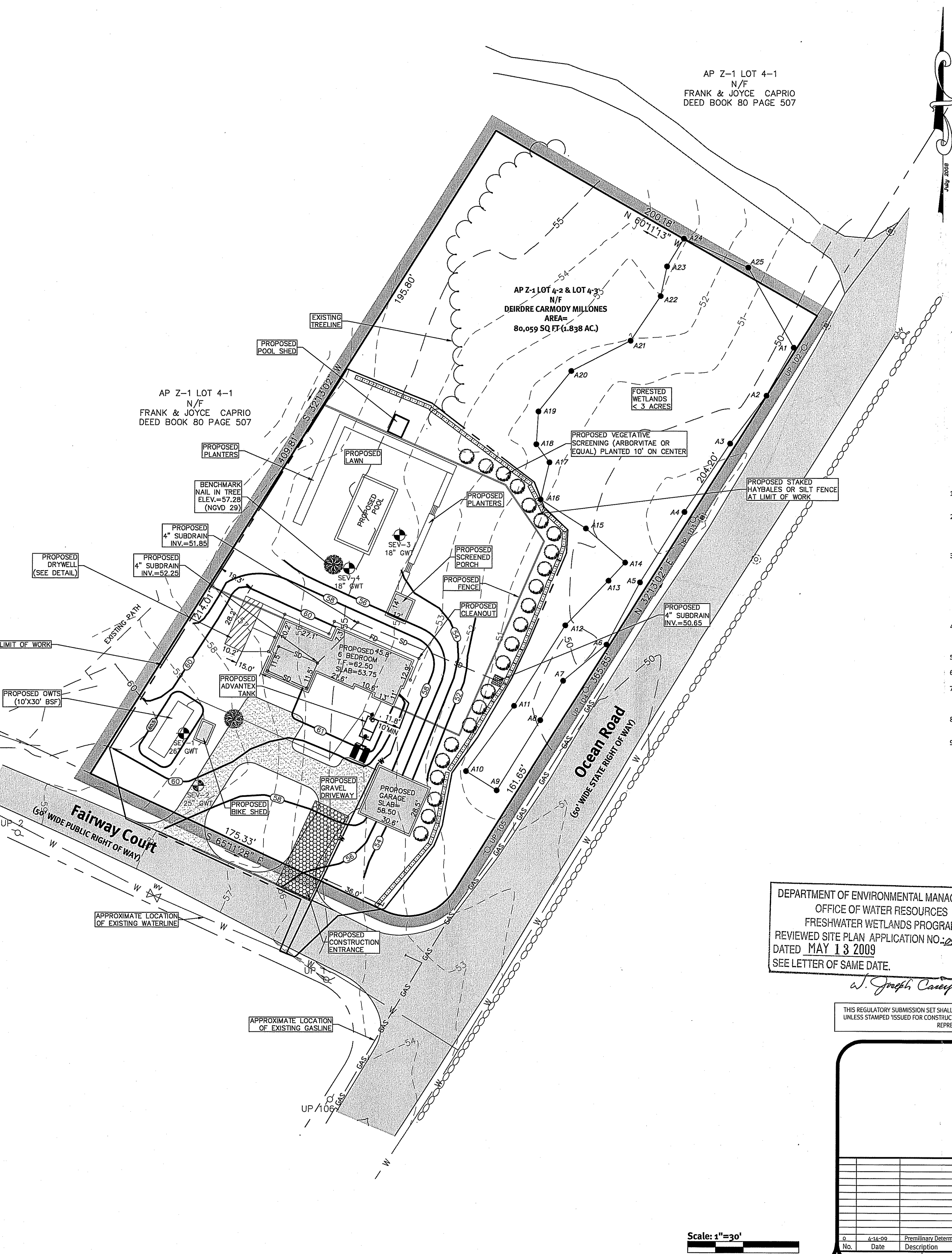
- CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD, UTILITY EASEMENTS AND AREAS TO BE GRADED.
- TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
- ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND TOWN OF NARRAGANSETT REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
- REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

### Establishment of Vegetative Cover

- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
  - ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
  - THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, LIMBS, LIMBS, LIMBS, LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
  - THE CONSERVATION SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE                   | % BY WEIGHT |
|------------------------|-------------|
| FOWL MANNGRASS         | 20          |
| PENNSYLVANIA SMARTWEED | 20          |
| JAPANESE WILLET        | 20          |
| VIRGINIA WILD RYE      | 20          |
| FOX SEDGE              | 10          |
| DEER TONGUE            | 5           |
| BLACKWELL SWITCHGRASS  | 5           |
- EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, L.02.03.1 SEEDING DATES. PERMANENT SEEDING SHALL BE DURING THE APRIL 1 TO MAY 31 OR AUGUST 15 TO OCTOBER 15. TEMPORARY SEEDING MAY BE DONE ANYTIME BETWEEN MARCH 15 AND NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLY OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUMS FOR EACH VARIETY.
  - TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE TREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS S150 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.
  - ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
  - ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH LOCAL MUNICIPAL REQUIREMENTS AND THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.
  - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.
  - ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEEDED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.
  - MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.
  - THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
  - REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

### Maintenance: Short Term/Long Term

- THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- ALL HAY BALES/SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. HAY BALES/SILT FENCE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM EVENT OR EVERY 7 DAYS, WHICHEVER COMES FIRST, FOR UNDERMINING AND DETERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE HAY BALES/SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY BALES/SILT FENCE BECOMES FILLED IN WITH SEDIMENT. THE HAY BALES/SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE TOWN OF NARRAGANSETT AND/OR THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE HAY BALES/SILT FENCE SHALL BE REMOVED.
- THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. HAY BALES OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR OF THE DRYWELL SYSTEM AND RELATED APPURTENANCES ON SITE DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION FOR A MAXIMUM OF ONE YEAR, OR UNTIL ACCEPTANCE BY THE ENGINEER AND THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER.
- IF STANDING WATER PERSISTS SEVENTY TWO (72) HOURS AFTER A STORM EVENT WITHIN THE DRYWELL SYSTEM, THE BASIN SHALL UNDERGO MAINTENANCE IMMEDIATELY AND NON-IMPROVEMENT OF CONDITIONS THEREAFTER WILL CALL FOR REPLACEMENT OF THE SYSTEM AND/OR IMPROVEMENT OF THE SURROUNDING STONE.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.



### General Notes

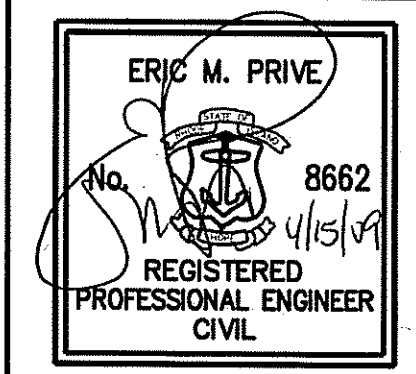
- THE SITE IS FOUND ON TOWN OF NARRAGANSETT ASSESSOR'S PLAT Z-1 LOTS 4-2 & 4-3. CURRENT OWNER OF RECORD IS NOW OR FORMERLY DEIRDRE CARMODY MILLONES.
- THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THE SITE ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE TOWN OF NARRAGANSETT, RI COMMUNITY PANEL 445402-0006 C DATED NOVEMBER 01, 1994. THE SITE IS LOCATED WITHIN THE FOLLOWING FLOOD INSURANCE ZONES, THE BOUNDARIES OF WHICH, AS SHOWN APPROXIMATELY HEREON, HAVE BEEN DIGITIZED FROM THE ABOVE REFERENCED FLOOD INSURANCE RATE MAP: ZONE C - [AREAS OF MINIMAL FLOODING]
- THE CURRENT ZONING OF THE SITE IS R-40 DIMENSIONAL REGULATIONS MINIMUM LOT AREA: 40,000 SQ. FT. MINIMUM LOT WIDTH: 150 FEET MINIMUM FRONT YARD SETBACK: 40 FEET MINIMUM SIDE YARD SETBACK: 35 FEET MINIMUM REAR YARD SETBACK: 60 FEET MAXIMUM COVERAGE (%): 15% (14.7% PROPOSED)
- THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS A CLASS 1 SURVEY AS PERFORMED BY DIPRETE ENGINEERING. THE PLAN ITSELF CONFORMS ONLY TO A CLASS III STANDARD AS ADOPTED BY RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS A CLASS I BOUNDARY PLAN AND IS NOT SUITABLE FOR RECORDING AS A CLASS I STANDARD.
- TOPOGRAPHY BY DIPRETE ENGINEERING ASSOCIATES, 2 STAFFORD COURT, CRANSTON, RI 02920. DATUM IS HIGVD-29.
- WETLAND FLAGGING BY DIPRETE ENGINEERING AND VERIFIED BY RIDEM UNDER APPLICATION #08-0303 DATED OCTOBER 24, 2008.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE. THIS PLAN SHOWS GENERAL GRADING ONLY AND ADDITIONAL DETAIL IS LIKELY TO BE REQUIRED AROUND THE BUILDING.
- THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DEEA THAT UTILITY SERVICE IS AVAILABLE.
- ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS BY OTHERS, OR INFORMATION PROVIDED TO DEEA AND ARE SUBJECT TO CHANGE. NO ONE SHOULD RELY ON THE UTILITY LOCATIONS SHOWN FOR CONSTRUCTION AND DIG SAFE SHOULD BE NOTIFIED PRIOR TO ANY WORK.

Legend	
□	CONCRETE BOUND
○	DRILL HOLE
●	IRON ROD
○	UTILITY POLE
○	CATCH BASIN
○	DRAINAGE MANHOLE
○	WATER VALVE
○	ASSESSOR'S PLAT
○	NOW OR FORMERLY
○	SQ. FT.
○	FOUNDATION DRAIN
○	SUBDRAIN
○	PERIMETER PROPERTY LINE
○	EDGE OF FLAGGED WETLAND
○	STONE WALL
○	FENCE
○	EXISTING PATH
○	2' CONTOUR LINE
○	10' CONTOUR LINE
○	TEST HOLE
○	EXISTING TREE
○	PROPOSED VEGETATIVE SCREEN
○	HAYBALE
○	LIMIT OF WORK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION NO. 08-0089  
DATED MAY 13 2009  
SEE LETTER OF SAME DATE.  
*J. Joseph Carney*

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED/ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

### RIDEM Preliminary Determination



**Site Plan**  
**UP #105 Ocean Road**  
Assessor's Plat Z-1, Lots 4-2 & 4-3  
Narragansett, Rhode Island

**DiPrete Engineering**  
Two Stafford Court, Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

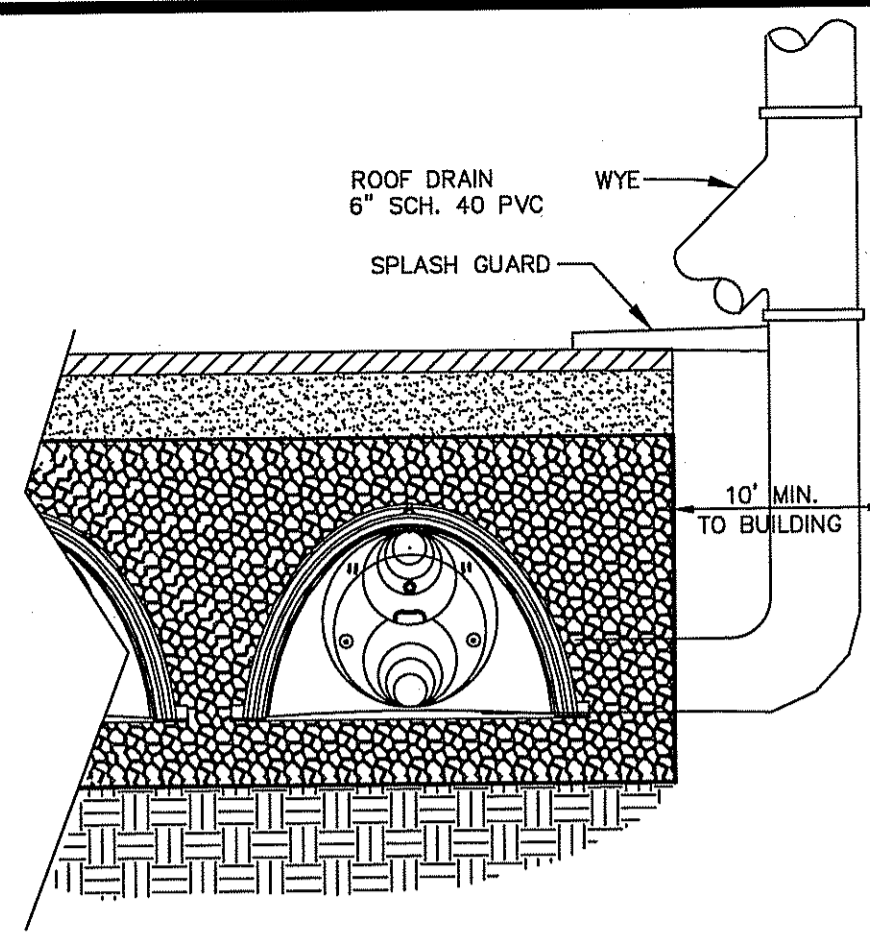
Applicant  
**Deirdre Millones**  
P.O. Box 773  
Narragansett, Rhode Island 02882

No.	Date	Description	By
0	4/15/09	Preliminary Determination Submission	T.L.L.
1	5/13/09	Reviewed Site Plan Application	E.M.P.

Drawn By: T.L.L. Design By: T.L.L. Checked By: E.M.P.



Engineers • Planners • Surveyors



**ROOF LEADER OVERFLOW**  
NOT TO SCALE

**DRYWELL CONSTRUCTION, MAINTENANCE & INSPECTION NOTES**

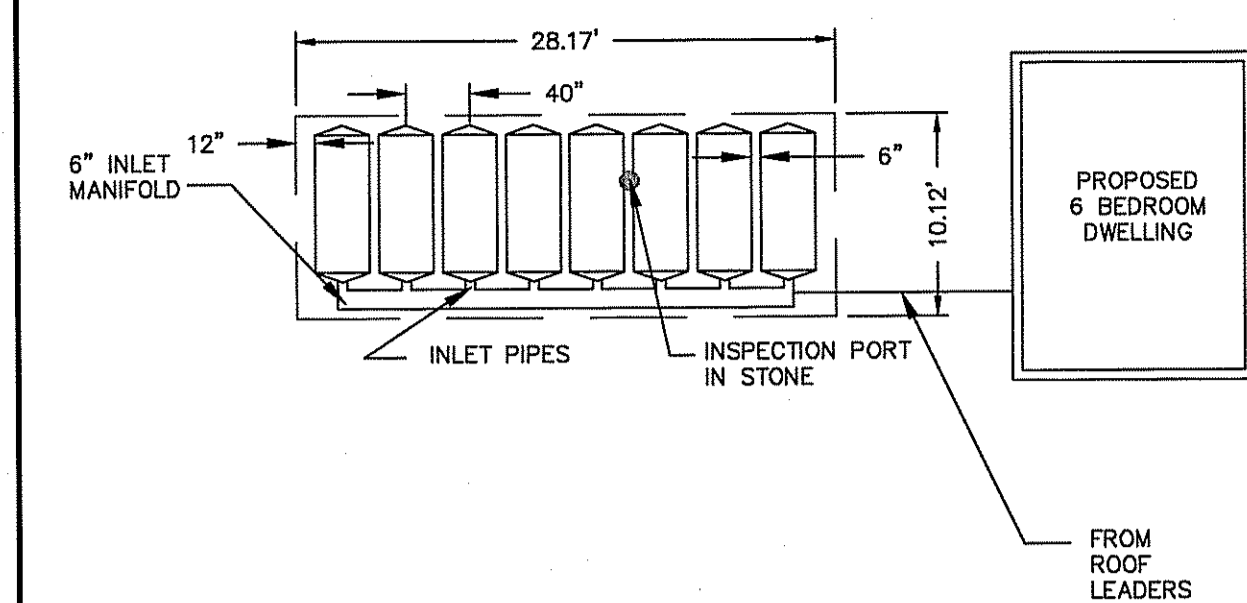
1. UNDERGROUND DRAINAGE AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON DESIGNATED AREA PRIOR TO CONSTRUCTION.
2. STAKE CORNERS OF DRYWELL.
3. PLACE FILTER FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH AND FILL WITH SPECIFIED DIAMETER FILTER STONE.
4. SET STRUCTURES AT THE INVERT ELEVATION ALONG WITH INSPECTION/ MAINTENANCE PORTS AS INDICATED ON THE PLANS. BACKFILL SIDES AND TOP OF STRUCTURE WITH FILTER STONE. THERE SHALL BE A MINIMUM OF 12" OF FILTER STONE ALL SIDES OF THE STRUCTURE.
5. OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACKFILL WITH CLEAN FILL TO FINISH GRADE.
6. MONITORING WATER LEVELS WITHIN THE CLEAN-OUTS AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN INFILTRATION SYSTEM 72 HOURS AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF THE SYSTEM. THE OWNER WILL MAINTAIN THE DRAINAGE COMPONENTS.
7. IF STANDING WATER PERSISTS 72 HOURS AFTER A STORM EVENT WITHIN THE MONITORING WELLS, THE UNDERGROUND STORMTECH SC-310 SYSTEM SHALL UNDERGO MAINTENANCE IMMEDIATELY AND NON-IMPROVEMENTS OF CONDITIONS THEREAFTER WILL CALL FOR CONTRACTOR REPLACEMENT OF SYSTEM AND OR IMPROVEMENT OF SURROUNDING STONE.
8. MAINTENANCE WITHIN THE UNDERGROUND STORMTECH SC-310 SHALL CONSIST OF INSPECTION OF THE RESPECTIVE MONITORING WELLS SEMI-ANNUALLY, TO OCCUR WITHIN 72 HOURS OF A RAINFALL EVENT. IF IT IS FOUND THAT STORMTECH SC-310 SYSTEMS ARE NOT INFILTRATING STORMWATER AFTER 72 HOURS FOLLOWING A RAINFALL EVENT, THE (OWNER A.) SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF THE APPROPRIATE SYSTEM COMPONENTS.

**STORMTECH GENERAL NOTES**

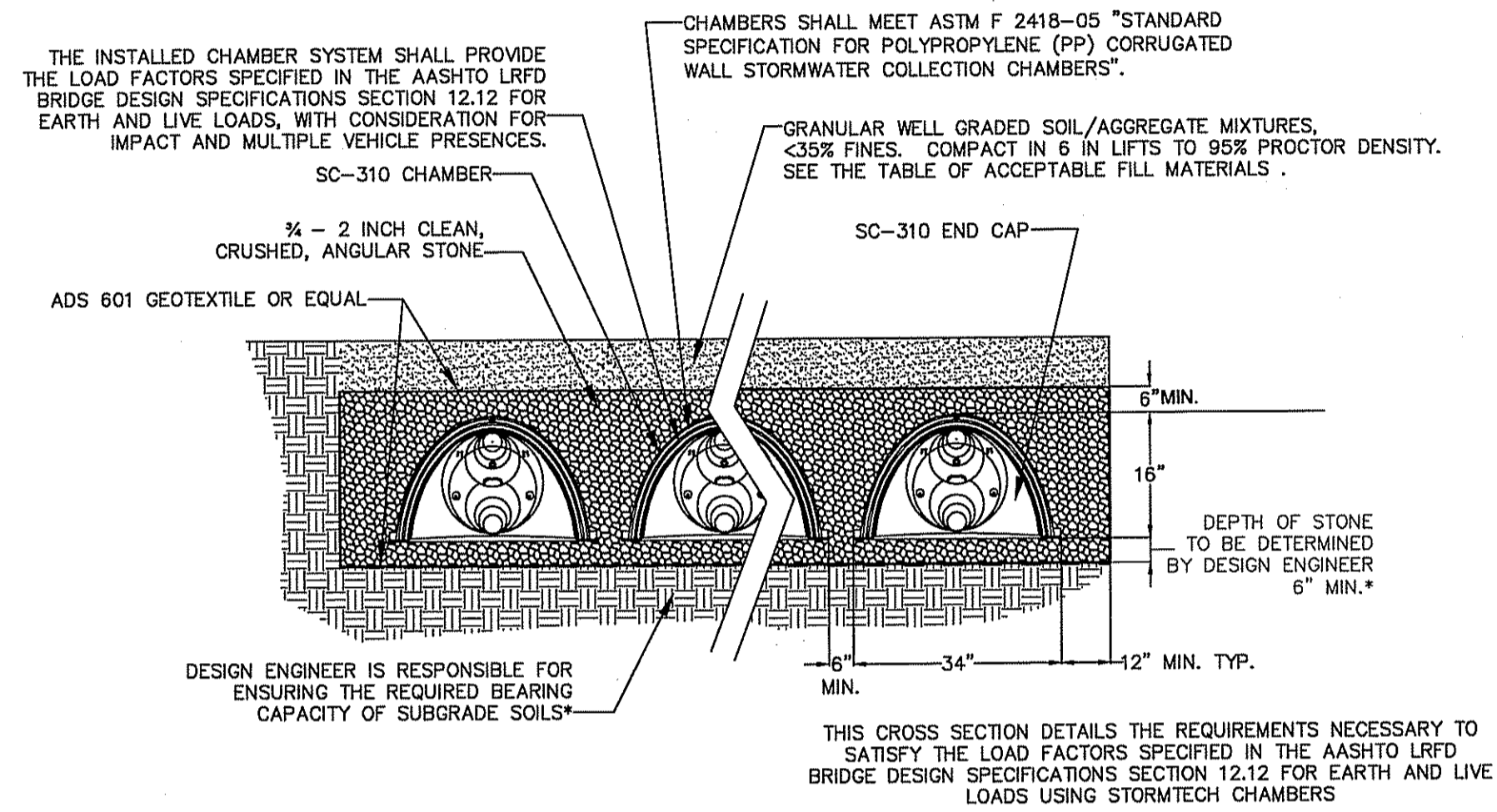
1. STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
2. OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
3. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
4. AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
5. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
6. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
7. THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
8. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
9. STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT WWW.STORMTECH.COM.

**STORMWATER CHAMBER SPECIFICATIONS**

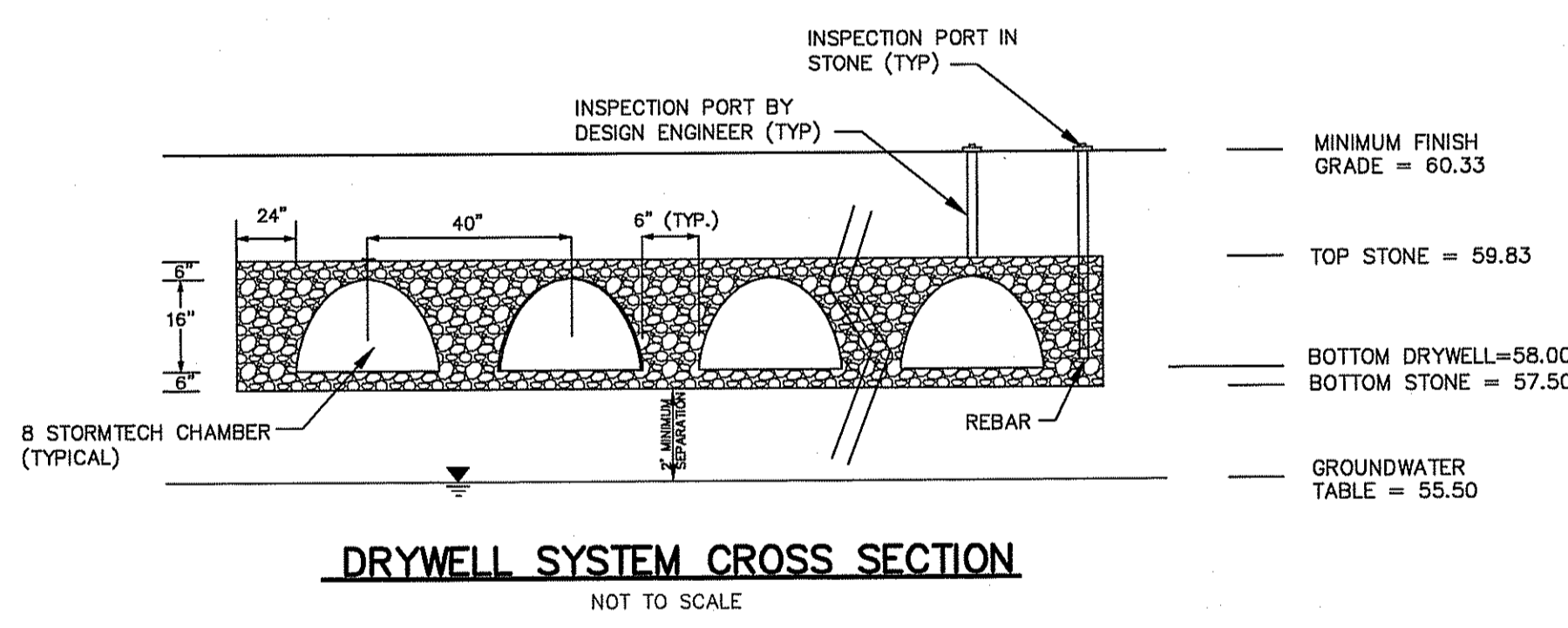
- CHAMBERS SHALL BE STORMTECH SC-310 OR APPROVED EQUAL.
1. CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418-05, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  2. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS.
  3. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
  4. ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
    - A. A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET. THE 50-YEAR ORSEP MODULUS DATA SPECIFIED IN ASTM 2418-05 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
    - B. A CERTIFICATION BY THE MANUFACTURER THAT THE CHAMBERS ARE IN ACCORDANCE WITH ASTM F2418-05.
  5. CHAMBERS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
  6. ALL DESIGN SPECIFICATIONS FOR CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST DESIGN MANUAL.
  7. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.



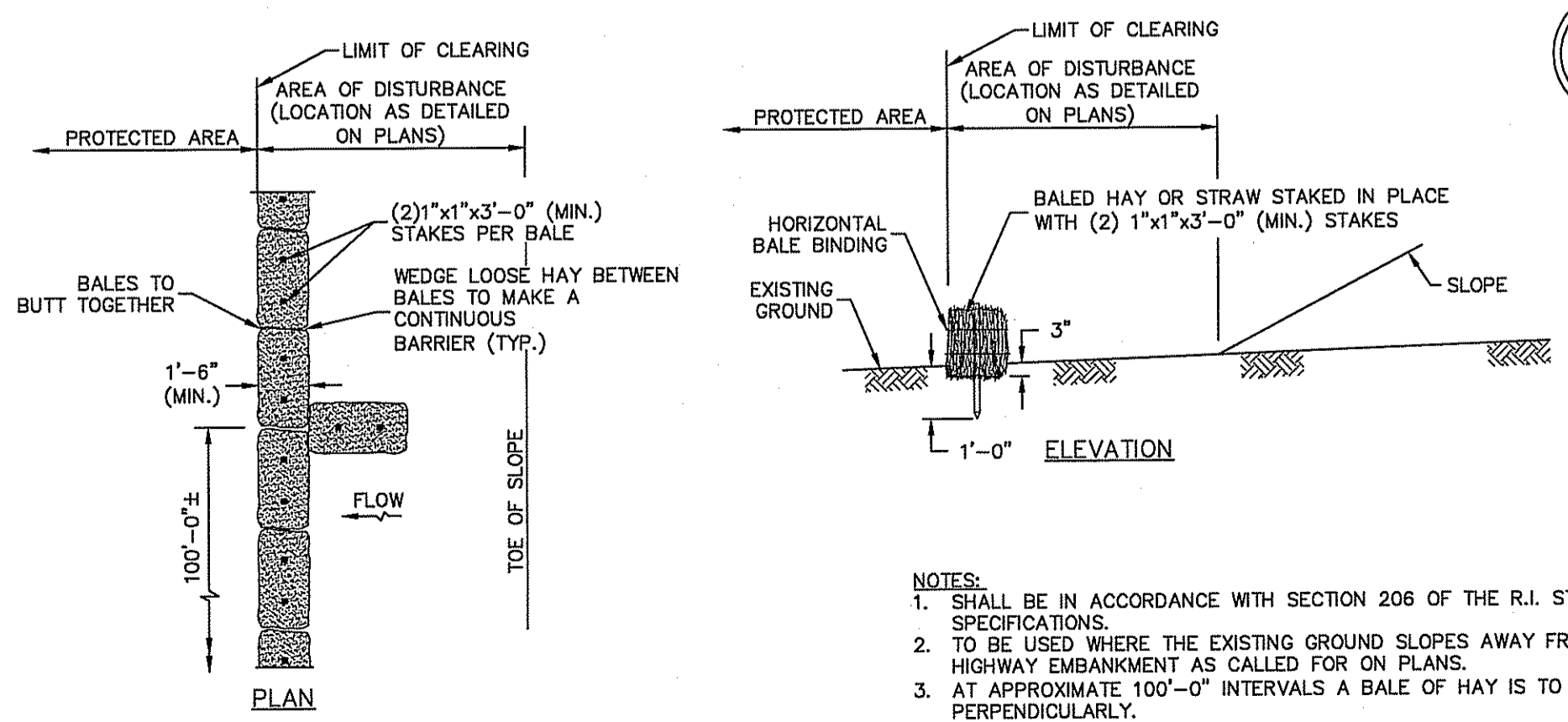
**DRYWELL SYSTEM**  
SCALE: 1"=10'



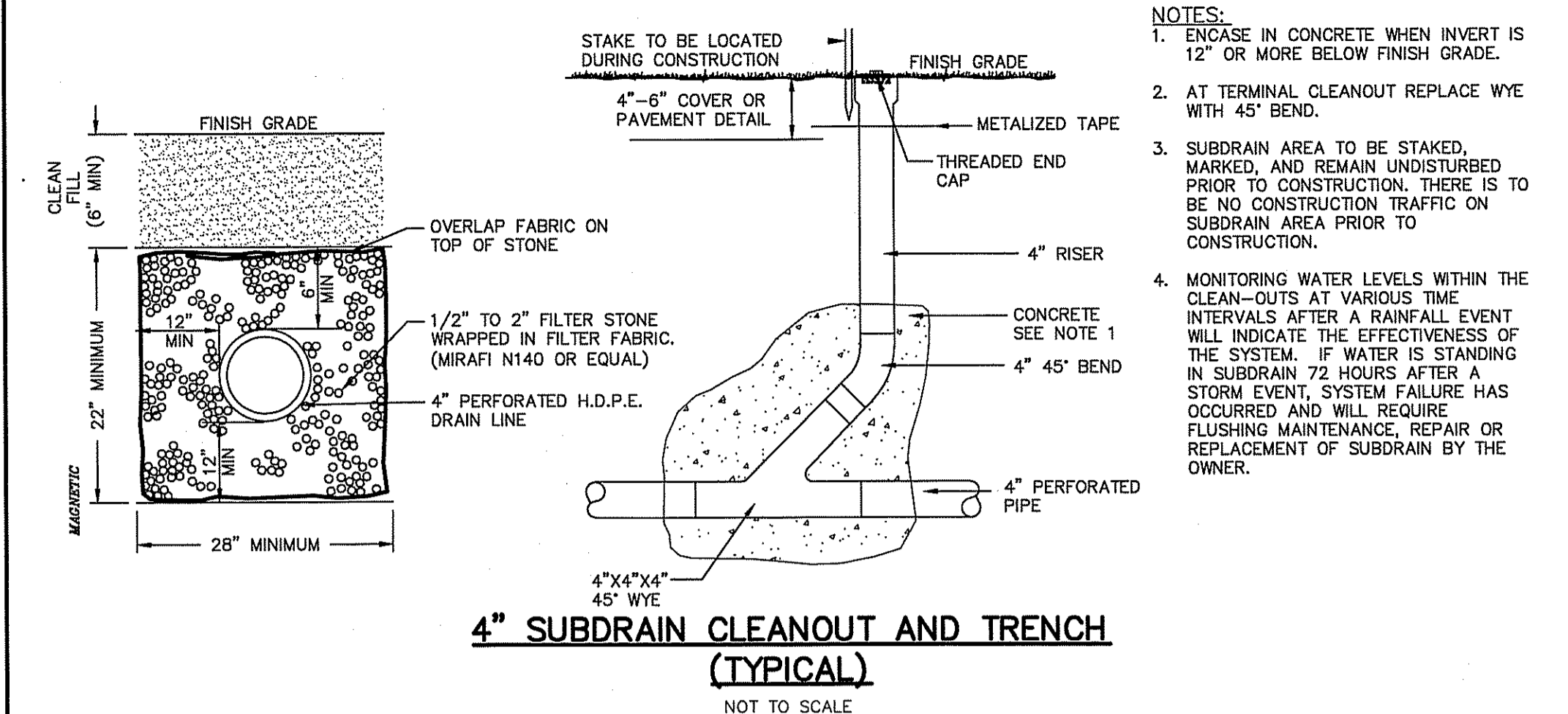
**STORMTECH SC-310 TYPICAL CROSS SECTION**  
NOT TO SCALE



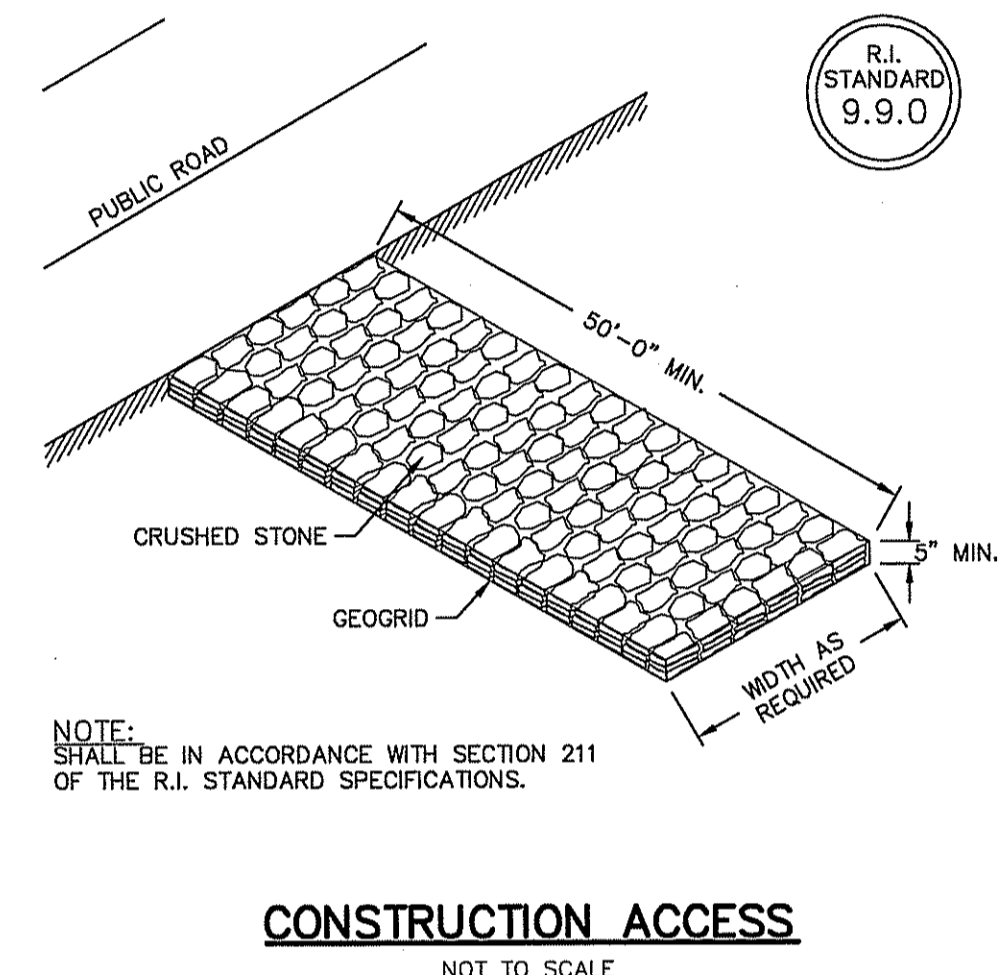
**DRYWELL SYSTEM CROSS SECTION**  
NOT TO SCALE



**BALED HAY EROSION CHECK**  
NOT TO SCALE



**4" SUBDRAIN CLEANOUT AND TRENCH (TYPICAL)**  
NOT TO SCALE



**CONSTRUCTION ACCESS**  
NOT TO SCALE

1. SUBDRAIN AREA IS TO BE STAKED, MARKED AND IS TO REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. NO CONSTRUCTION TRAFFIC OVER THE SUBDRAIN AREA PRIOR TO CONSTRUCTION IS ALLOWED.

2. SEE CONSTRUCTION SEQUENCE OUTLINED IN SUBDRAIN TRENCH DETAIL.

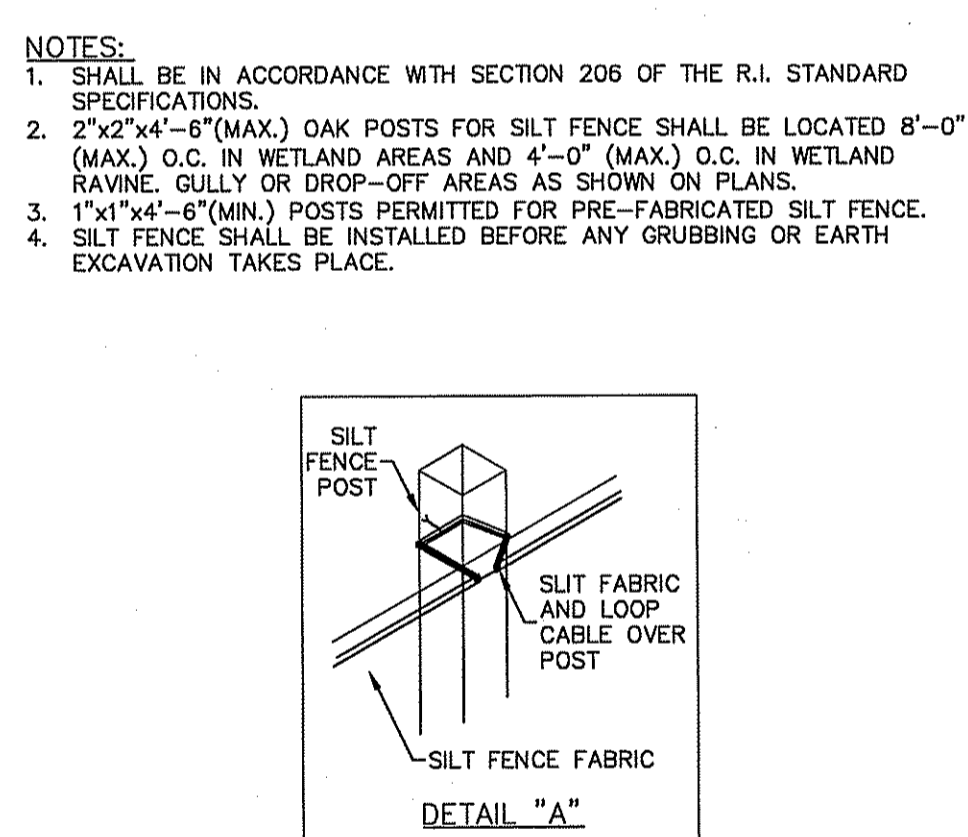
3. OWNER SHALL MONITOR THE WATER LEVELS WITHIN THE CLEAN-OUTS AT VARIOUS TIME INTERVALS AFTER RAINFALL EVENTS THAT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN THE SUBDRAIN AFTER A STORM EVENT, SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF SUBDRAIN BY OWNER.

4. THE INSTALLATION OF THE SUBDRAIN BENEATH THE PROPOSED HOME IS TO BE RECORDED IN THE PROPERTY DEED(S).

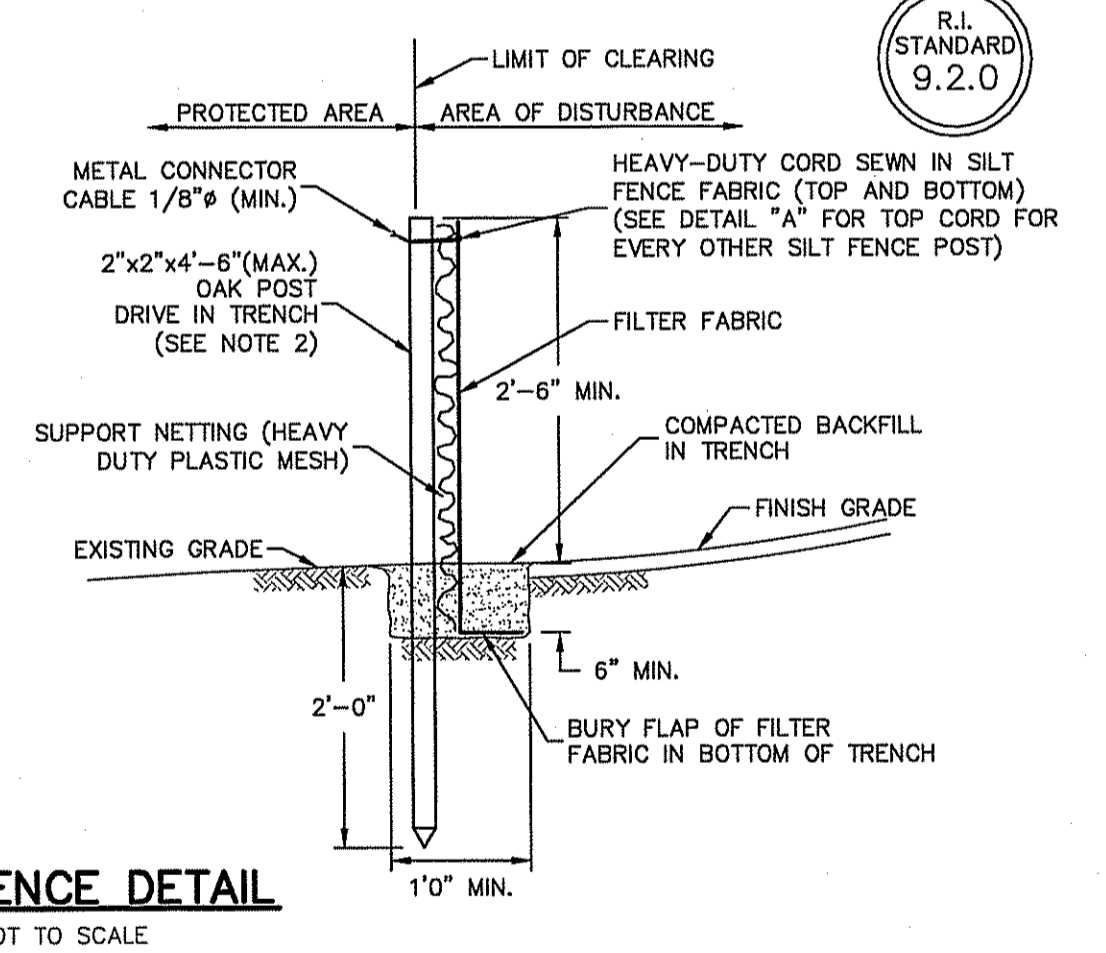
5. THE OWNER AND / OR THE CONTRACTOR SHALL TAKE SPECIAL CARE SO AS TO AVOID DAMAGING THE SUBDRAIN. HEAVY EQUIPMENT SHALL NOT OPERATED DIRECTLY OVER THE SUBDRAIN PIPE. MORE SPECIFICALLY, THEY SHALL NOT PLACE EQUIPMENT STABILIZERS OVER THE SUBDRAIN PIPE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
REVIEWED SITE PLAN APPLICATION NO. 12-0029  
DATED MAY 13 2009  
SEE LETTER OF SAME DATE.

*W. Joseph Conroy*  
**SUBDRAIN INSTALLATION, INSPECTION & MAINTENANCE NOTE**  
NOT TO SCALE



**DETAIL "A"**



**SILT FENCE DETAIL**  
NOT TO SCALE

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
  2. 2"x2"x4'-6"(MAX.) OAK POSTS 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'-6"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
  4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

ERIC M. PRIVE No. 8662 REGISTERED PROFESSIONAL ENGINEER CIVIL	
No.	Date
Description	
By:	
Checked By:	
Drawn By:	
Design By:	
Checked By:	

**RIDEM Preliminary Determination**

**Site Plan**  
**UP #105 Ocean Road**  
Assessor's Plat Z-1, Lots 4-2 & 4-3  
Narragansett, Rhode Island

**DiPrete Engineering**  
Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

Applicant  
**Deirdre Millones**  
P.O. Box 773  
Narragansett, Rhode Island 02882

APR 16 2009

Engineers • Planners • Surveyors

D:\Research\demain\Engineers\Projects\1405-002 Ocean Road Dwg\1405-002 Wetlands PD 4-1-09.dwg - 4/15/2009 9:44:56 AM, Tracy, DWFG ePlot.pc3