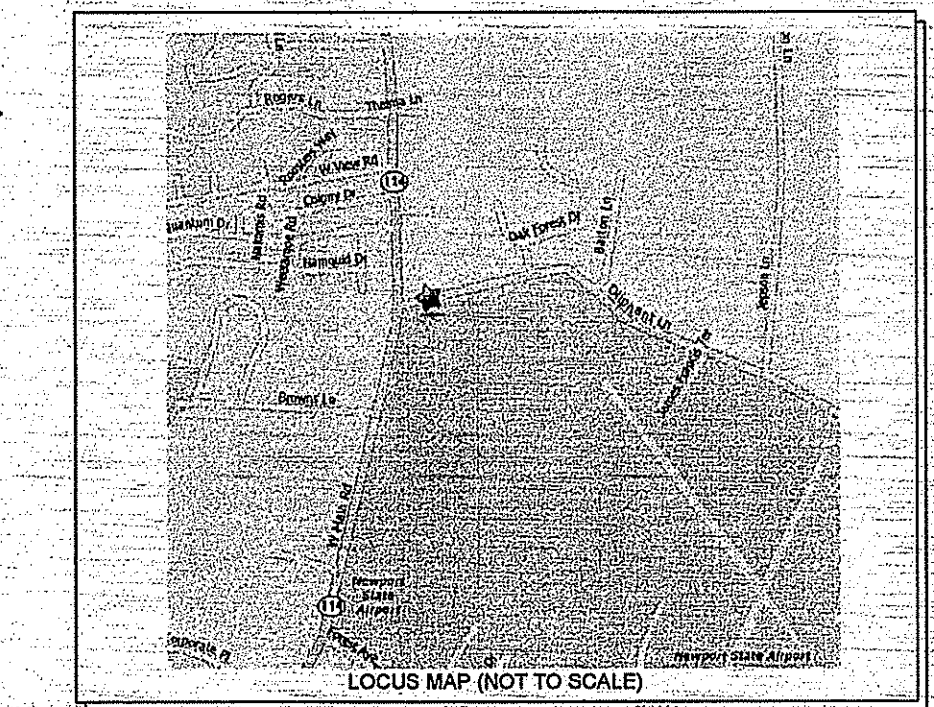


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SEWER CONNECTION NOTES:

1. LOCATION OF EXISTING SEWER MAIN AND RESIDENTIAL CONNECTION WAS LOCATED AS ACCURATELY AS POSSIBLE WITH AVAILABLE RECORDS AND FIELD STAKING BY CONTRACTOR.
2. CONTRACTOR TO DETERMINE SIZE AND MATERIAL TYPE OF EXISTING RESIDENTIAL SERVICE LATERAL BY EDUCATION OR UNDERGROUND LOCATOR PRIOR TO CONSTRUCTION. CCTV (CAMERA) SHOULD BE USED TO EVALUATE CONDITION OF PIPE AND CONNECTION TO TOWN SYSTEM.
3. SHOULD ACTUAL LOCATION OF SERVICE VARY FROM THIS PLAN, CONTRACTOR TO COORDINATE WITH PROJECT ENGINEER AND TOWN OF MIDDLETOWN PUBLIC WORKS TO REVISE SITE PLAN OR RELOCATE SERVICE.
4. ONCE CONTRACTOR HAS VERIFIED INVERT OF EXISTING SERVICE LATERAL AT LOCATION OF PROPOSED CONNECTION AND RECEIVED APPROVAL OF ITS CONDITION FROM MIDDLETOWN PUBLIC WORKS, CONTRACTOR SHOULD COORDINATE WITH ENGINEER AND MIDDLETOWN PUBLIC WORKS TO SET SEWER MANHOLE INVERTS AND RESIDENCE BUILDING SEWER ELEVATION.
5. ALL PROPOSED SANITARY SEWER IMPROVEMENTS SHALL BE PERFORMED BY A TOWN LICENSED DRAINLAYER.
6. 10' WIDE EASEMENT PROVIDED FOR OPERATION AND MAINTENANCE OF SHARED LATERAL LATERAL SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNERS.

WATER QUALITY CALCULATIONS:

SUBSURFACE INFILTRATION CHAMBERS INSTALLED TO MANUFACTURER'S SPECIFICATIONS TO PROVIDE THE NECESSARY WATER QUALITY TREATMENT IN ACCORDANCE WITH THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION MANUAL. SEE CHAMBER SPECIFICATIONS ON SHEET 2.  
REQUIRED WATER QUALITY = 1" OVER IMPERVIOUS AREA: 1,614 SF X 1" = 134.5 CUBIC FEET  
WATER QUALITY VOLUME PROVIDED: 29.5 CF X 5 UNITS = 148.5 CUBIC FEET  
\*INSTALLED WITH 6" CRUSHED STONE BASE AND SURROUND PER MANUFACTURER'S SPECIFICATION.

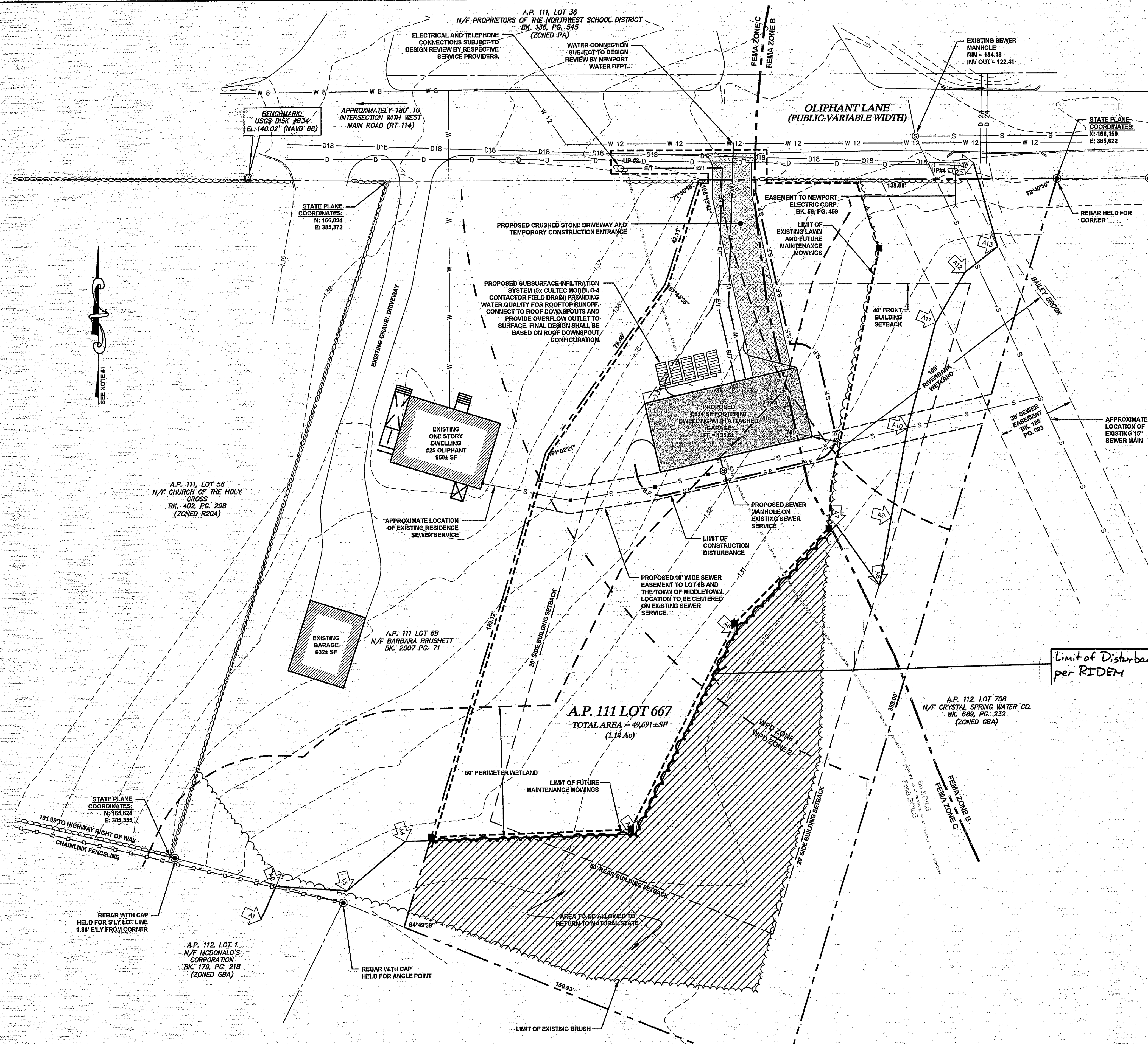
LEGEND:

- PROPERTY LINE
- ABUTTER PROPERTY LINE
- STONEWALL
- CHAINLINK FENCE LINE
- EXISTING TOPOGRAPHIC CONTOUR
- REBAR
- SEWER MANHOLE
- DRAIN MANHOLE
- UTILITY POLE
- IRON PIPE
- WETLAND EDGE
- WETLAND FLAG
- APPROXIMATE EDGE OF BROOK
- UTILITY EASEMENT
- W 8 EXISTING 8" WATER MAIN
- W 12 EXISTING 12" WATER MAIN
- W EXISTING WATER SERVICE
- S EXISTING SEWER MAIN
- D EXISTING 18" DRAIN LINE
- EXISTING 18" DRAIN LINE
- WETLAND SETBACK LINE
- ZONING SETBACK LINE
- FEMA FLOOD ZONE LINE
- SOILS TYPE LINE
- WATERSHED PROTECTION ZONE LINE
- LIMITS OF CONSTRUCTION DISTURBANCE
- S.F. LINE OF SILTFENCE / HAYBALES
- W PROPOSED WATER SERVICE
- S 8 PROPOSED 8" SEWER SERVICE
- S 4 PROPOSED 4" SEWER MANHOLE
- ET PROPOSED ELEC / TELE SERVICE
- 35 PROPOSED TOPOGRAPHIC CONTOUR
- PROPOSED 4" X 4" DISTURBANCE MARKER
- LIMITS OF PERMANENT LAWN MAINTENANCE

NOTES:

1. NORTH ARROW ESTABLISHED BY MAGNETIC COMPASS READING - APRIL 2, 2004.
2. PROPERTY LINE OF A.P. 111 LOT 667 TAKEN FROM APPROVED SUBDIVISION PLAN.
3. BASE OF ELEVATIONS: NAVD 1988.
4. SITE IS ZONED R20 AND IS SUBJECT TO THE FOLLOWING DIMENSIONAL REQUIREMENTS FOR A SINGLE FAMILY DWELLING:
 

MINIMUM LOT SIZE:	20,000 SQUARE FEET
MINIMUM FRONTAGE:	120 FEET
MAXIMUM LOT COVERAGE:	20%
MAXIMUM HEIGHT (PRINCIPLE):	35 FEET
MAXIMUM HEIGHT (ACCESSORY):	25 FEET
MINIMUM FRONT YARD:	40 FEET
MINIMUM SIDE YARD:	20 FEET
MINIMUM REAR YARD:	50 FEET
5. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES).
6. A.P. 111 LOT 667 LIES WITHIN FEMA FLOOD ZONES B & C AS INDICATED. FLOOD LINES TAKEN FROM FEMA MAP 4454010001C REVISED APRIL 17, 1984.
7. A.P. 111 LOT 667 LIES WITHIN THE WATERSHED PROTECTION DISTRICT ZONES 1 & 2 AS SHOWN.
8. SOILS INFORMATION TAKEN FROM SHEET 109 OF THE RI SOIL SURVEY.
9. DEVELOPMENT RECEIVED AN INSIGNIFICANT ALTERATION PERMIT FROM RIDEM WETLANDS. APPLICATION NO. 06-0542. THIS PLAN WAS SUBSEQUENTLY REVISED AFTER THE SEWER SERVICE WAS FIELD LOCATED. RESIDENCE SIZE WAS REORIENTED TO AVOID RELOCATION OF EXISTING SEWER SERVICE OF ADJACENT RESIDENCE.
10. LIMITS OF PERMANENT LAWN MAINTENANCE WAS SUBSTANTIALLY REVISED AFTER DEM APPLICATION 08-0353 PER RIDEM COMMENT. ALL FLAGGED WETLAND AREA ON SITE WILL BE NO LONGER BE MAINTAINED AND WILL BE ALLOWED TO RETURN TO NATURAL STATE.
11. ALL DEVELOPMENT MUST COMPLY WITH PROVISIONS OF TOWN CODE CHAPTER 151, CONSTRUCTION SITE RUNOFF CONTROL, AND CHAPTER 153, STORM WATER CONTROL, ORDINANCE.
12. STATE PLANE COORDINATES ESTABLISHED BY NEAC USING GPS IN MARCH 2007 AND ARE INTENDED ONLY FOR GIS PURPOSES AND NOT FOR ESTABLISHING PROPERTY CORNERS.



WATER QUALITY CALCULATIONS TABLE

IMPERVIOUS ID	AREA (SF)	WATER QUALITY REQ. (1 IN. OVER AREA) (CF)	WQ CONTROL DEVICE	WATER QUALITY PROVIDED (CF)
RESIDENCE	1614	135	5 C-4 CONTACTORS (CULTEC)	148.5
STONE DRIVEWAY	1,300	NONE REQUIRED		

1	REVISED LIMITS OF LAWN MAINTENANCE	23FEB09
No.	Revision	Date
Designed by: JJR	Drawn by: JJR	Checked by: GES
Scale: 1"=20'	Date: 06NOV08	

**ODELL RESIDENCE**  
A.P. 111 LOT 667  
OLIPHANT LANE  
MIDDLETOWN RHODE ISLAND

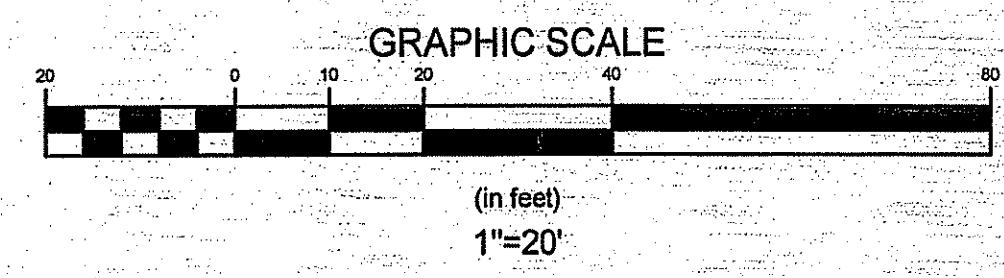
Client/Owner: DIANNA ODELL  
2 WEETAMOE ROAD  
MIDDLETOWN, RI  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED APR 6 2009 FILE # 09-0057  
DRAWING CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONTRACTOR'S RISK

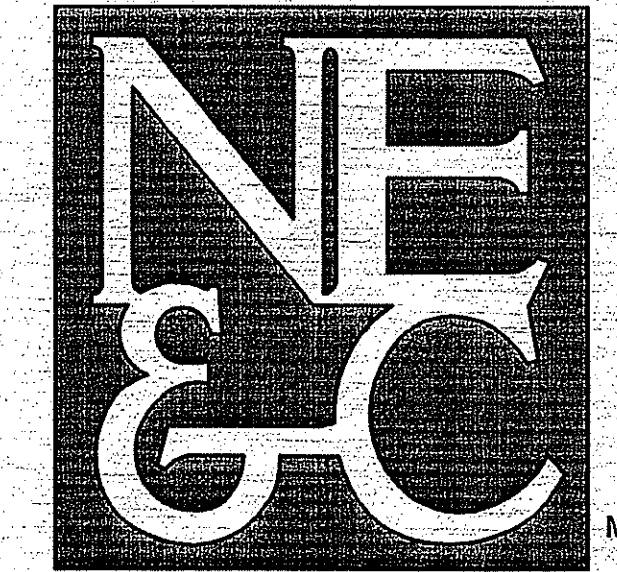
**PROPOSED CONDITIONS PLAN**

Drawing Number: C-1  
Sheet 1 of 2  
Project Number: 07228.0  
Survey Index:

GERALYN E. SMALL  
No. 8550  
No. 12-23-07  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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





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**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE TOWN OF MIDDLETOWN. NO CONSTRUCTION IS TO COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
3. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF MIDDLETOWN AND THE RI DEPARTMENT OF TRANSPORTATION, STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2004 AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
4. ALL ELEVATIONS ARE IN THE NAVD83 VERTICAL DATUM.
5. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO BE MADE TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR IS REQUIRED TO VERIFY THE LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER UTILITIES NOT ON RECORD OR SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND REINSTATEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION.
7. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION. REQUIRED PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
10. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
11. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE ACCURATE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE PRIOR TO CONSTRUCTION AT 1-888-DIG-SAFE (1-888-344-7233) AND/OR ALL LOCAL UTILITY COMPANIES).

**SOIL EROSION & SEDIMENT CONTROL NOTES**

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

2. NOTES:
  - A. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
  - B. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
  - C. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
  - D. ALL FILL SHALL BE COMPACTED TO 95% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
  - E. FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
  - F. ALL FILL SHALL BE PLACED AND COMPACTED TO 95% MAX. DENSITY IN LAYERS NOT TO EXCEED 12" IN THICKNESS FILLS.
  - G. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
  - H. FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILL.
  - I. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
  - J. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
  - K. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
  - L. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED AND VEGETATED AREAS HAVE RECEIVED TWO CUTTINGS.
3. VEGETATIVE PRACTICE:
  - A. SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
  - B. LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN RIDOT L.01 & L.02.
  - C. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED. TEMPORARY MEASURES FOR TEMPORARY PROTECTION OF DISTURBED AREAS.
  - D. LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
    - LIMESTONE: 3 TONS/ACRE
    - FERTILIZER: (10-10-10) 500 LBS/ACRE E
  - E. SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
    - WINTER RYE: 112 LBS/ACRE F
    - HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

4. DUST CONTROL
  - A. DUST CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES. AND REDUCE THE PRESENCE OF DUST WHICH MAY CAUSE OFF-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE AND PLANT LIFE, OR TRAFFIC SAFETY HAZARD.
  - B. THIS MEASURE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND SOIL MOVEMENT WHERE ON- AND OFF-SITE DAMAGE IS LIKELY TO OCCUR IF PREVENTIVE MEASURES ARE NOT TAKEN. IT MAY BE NECESSARY TO REMOVE STONES, EXCAVATE SEDIMENT, AND REPLACE STONES.
  - C. USE TRAFFIC CONTROL TO RESTRICT TRAFFIC TO PREDETERMINED ROUTES. MAINTAIN AS MUCH NATURAL VEGETATION AS IS PRACTICABLE USE PHASING OF CONSTRUCTION TO REDUCE THE AREA OF LAND DISTRIBUTED AT ANY ONE TIME. THE USE OF TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER OR SODDING WILL REDUCE THE NEED FOR DUST CONTROL. USE MECHANICAL SWEEPERS ON PAVED SURFACES WHERE NECESSARY TO PREVENT DUST BUILD UP. STATIONARY SOURCES OF DUST; FOR EXAMPLE, ROCK CRUSHERS, SHOULD USE FINE WATER SPRAYS TO CONTROL DUST.

**4. DUST CONTROL (CONT.)**

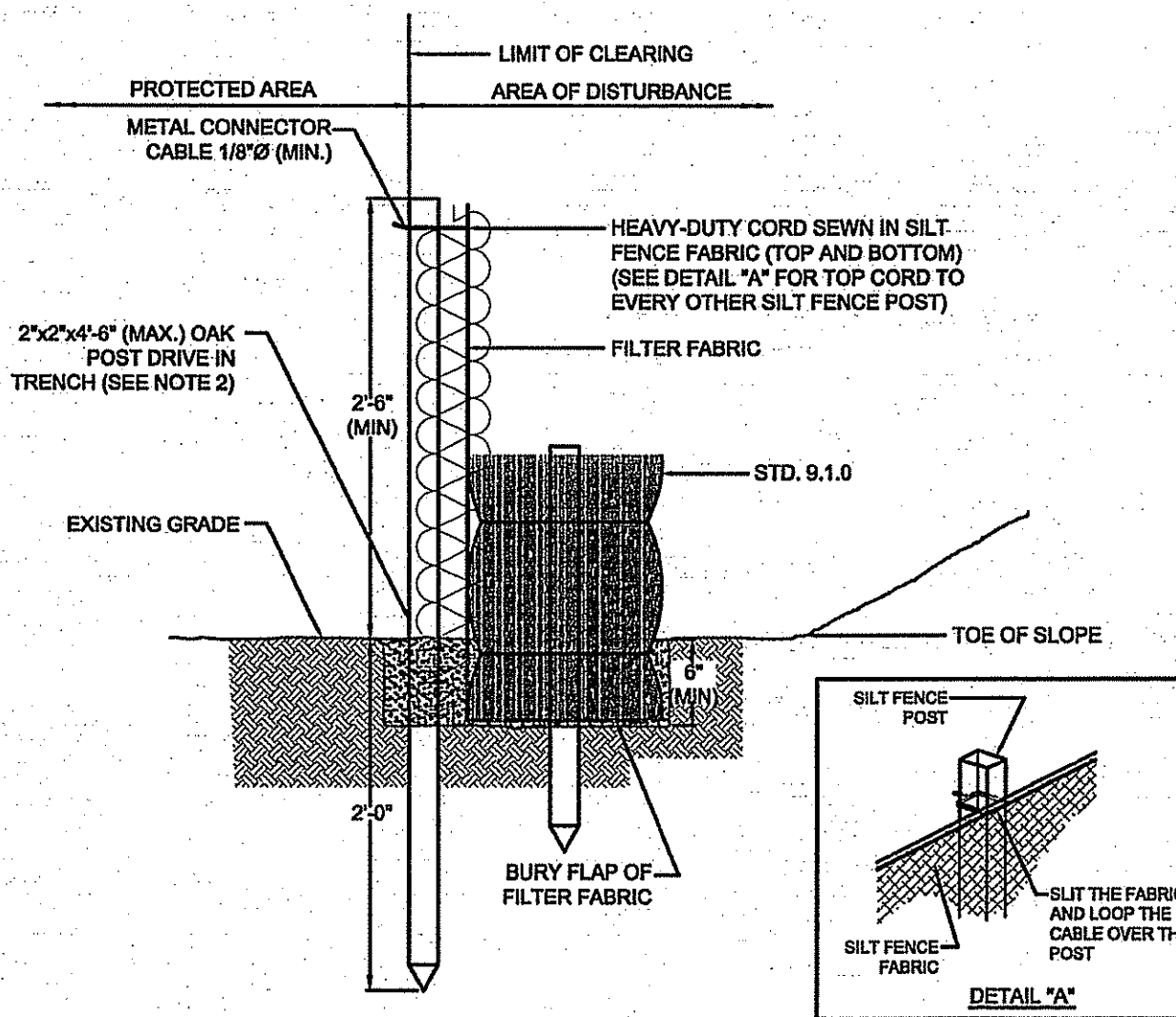
- D. INSTALLATION REQUIREMENTS:
  1. WATER-THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
  2. CALCIUM CHLORIDE SHOULD BE EITHER LOOSE DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH A SPREADER AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. BECAUSE OF ENVIRONMENTAL CONCERNS ASSOCIATED WITH THIS METHOD, IT SHOULD BE USED ONLY WHEN OTHERS ARE NOT FEASIBLE. USE OF CALCIUM CHLORIDE IN THE WATERSHEDS OR RECHARGE ZONES OF WATER SUPPLY RESERVOIRS OR AQUIFERS IS NOT RECOMMENDED.

**5. MAINTENANCE**

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

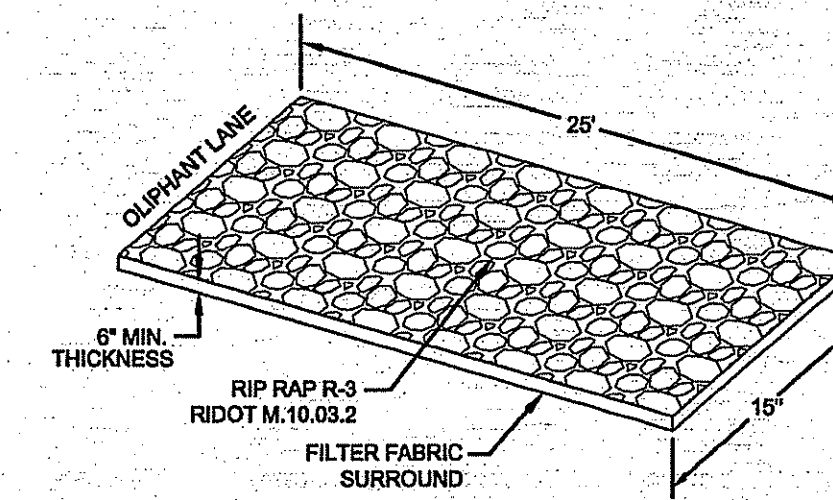
**STORM WATER SYSTEM MAINTENANCE REQUIREMENTS:**

1. GRASSES AND/OR SPECIFIED VEGETATION SHALL BE PLANTED AROUND AND WITHIN THE DISTURBED AREAS FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION.
2. THE ROOFTOP COLLECTION SYSTEM SHALL BE INSPECTED AT LEAST TWICE A YEAR FOR EVIDENCE OF SILTATION IN SUBSURFACE CHAMBERS. WHEN SIGNIFICANT VOLUMES OF SILTATION ARE OBSERVED, CHAMBERS SHALL BE VACCUUMED, AND REPAIRED WITH NEW FILTER FABRIC IF NECESSARY.
3. MAINTENANCE OF THE STORM WATER SYSTEM DURING CONSTRUCTION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF SITE CONTRACTOR.
4. UPON COMPLETION OF THE CONSTRUCTION, MAINTENANCE OF THE STORM WATER SYSTEM SHALL BECOME THE RESPONSIBILITY OF THE OWNER.

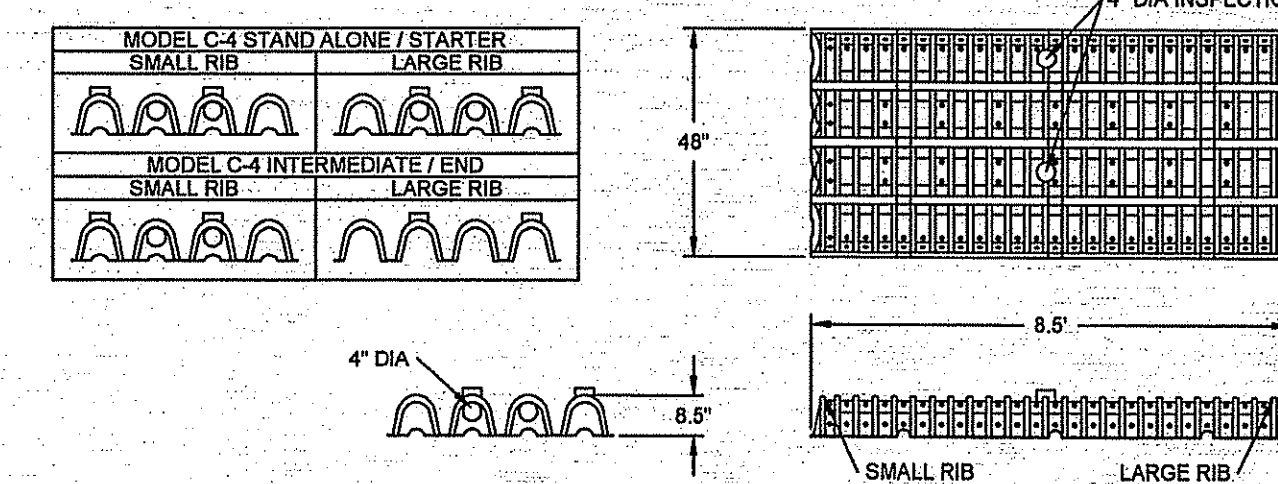


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
  2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8" (MAX.) O.C. IN WETLAND AREAS AND 4" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
  3. 1"x1/4" (MIN.) POSTS ARE PERMITTED FOR PRE-FABRICATED SILT FENCE.
  4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

**SOIL EROSION CONTROL**  
**- EROSION CONTROL BARRIER**  
SCALE: NTS

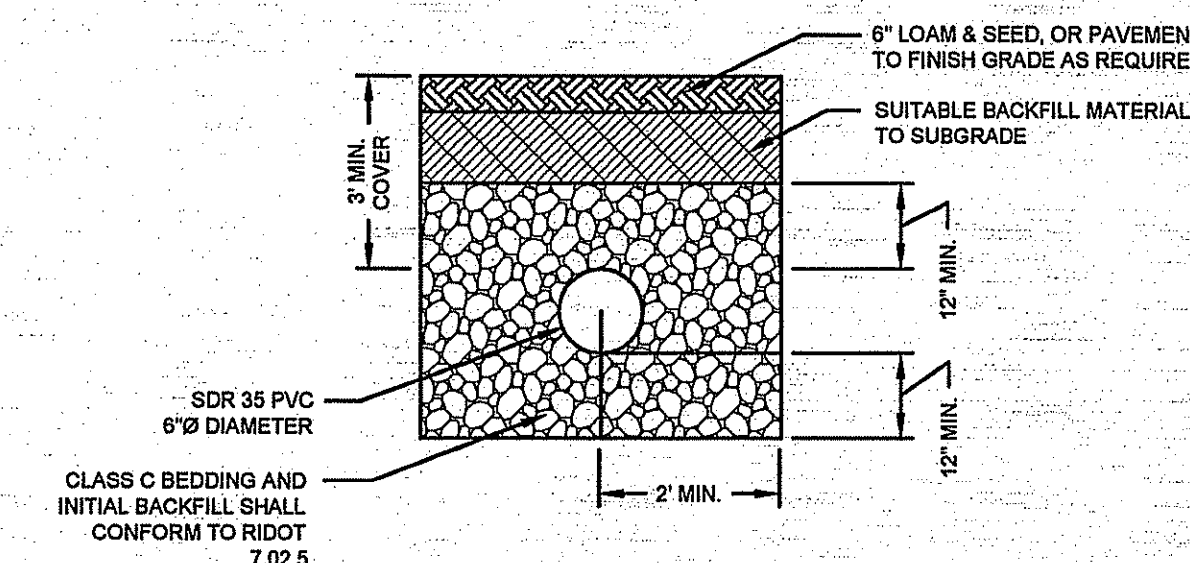


**SOIL EROSION CONTROL**  
**- WHEEL CLEANING BLANKET**  
SCALE: NTS



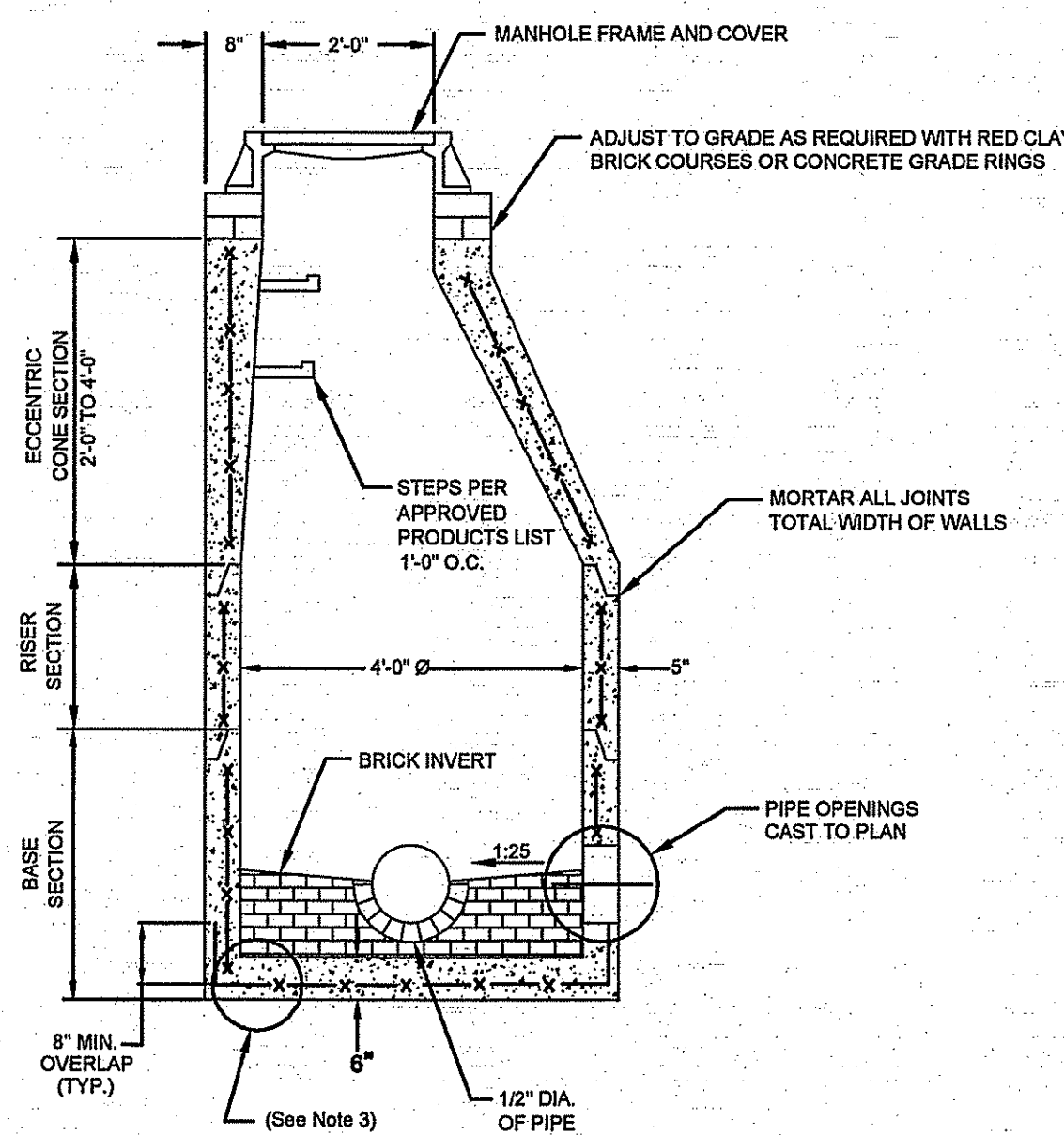
- SYSTEM NOTES:**
1. SYSTEM TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS WITH 6" MINIMUM OF FILTER FABRIC WRAPPED STONE BELOW AND SURROUNDING SYSTEM. FILTER STONE TO BE NATIONAL STONE ASSOCIATION MODIFIED NSA NO. FS-2 TO RIDOT M10.0301.
  2. INSPECTION PORTS SHALL BE INSTALLED AND BROUGHT TO GRADE.

**SUBSURFACE INFILTRATION CHAMBER**  
**(CULTEC #C-4 CONTACTOR FIELD DRAIN)**  
**MANUFACTURER'S DETAILS**  
SCALE: NTS



- SEWER PIPE TRENCH NOTES:**
1. UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
  2. TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
  3. PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE, IN ACCORDANCE WITH RIDOT SPECIFICATION 701.03.4
  4. ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE DR 35, OR SIMILAR APPROVED.
  5. ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.
  6. BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T180).

**SEWER CONNECTION**  
**- SEWER PIPE TRENCH DETAIL**  
SCALE: NTS



- SEWER MANHOLE NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN./LIN. FT. MINIMUM.
  3. STEEL REINFORCEMENT FOR BASE SECTION SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
  4. ONE POUR MONOLITHIC BASE SECTION.
  5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACK-HAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
  8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.
  10. BENCHING TO SLOPE AT NOT LESS THAN 1:30, NOT MORE THAN 1:12.

**SEWER CONNECTION**  
**- PRECAST MANHOLE DETAIL (RIDOT 4.2.0)**  
SCALE: NTS

No.	Revision	Date	App.
Designed By: <b>JJR</b>	Drawn by: <b>JJR</b>	Checked by: <b>GES</b>	
Scale: <b>1"=20'</b>	Date: <b>06NOV08</b>		
Project Title: <b>ODELL RESIDENCE</b> A.P. 111 LOT 667 OLIPHANT LANE MIDDLETOWN RHODE ISLAND			
Client/Owner: <b>DIANNA ODELL</b> 2 WEETAMOE ROAD MIDDLETOWN, RI			
Issued for: <b>DEPARTMENT OF ENVIRONMENTAL MANAGEMENT</b> OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED APR. 6 2009 FILE # 09-0052 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT OFFICE OF THE ENGINEER			
Drawing Title: <b>DETAILS AND NOTES</b>			
Drawing Number: <b>C-2</b>		Sheet <b>2</b> of <b>2</b>	
Project Number: <b>07228.0</b>		Survey Index:	
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