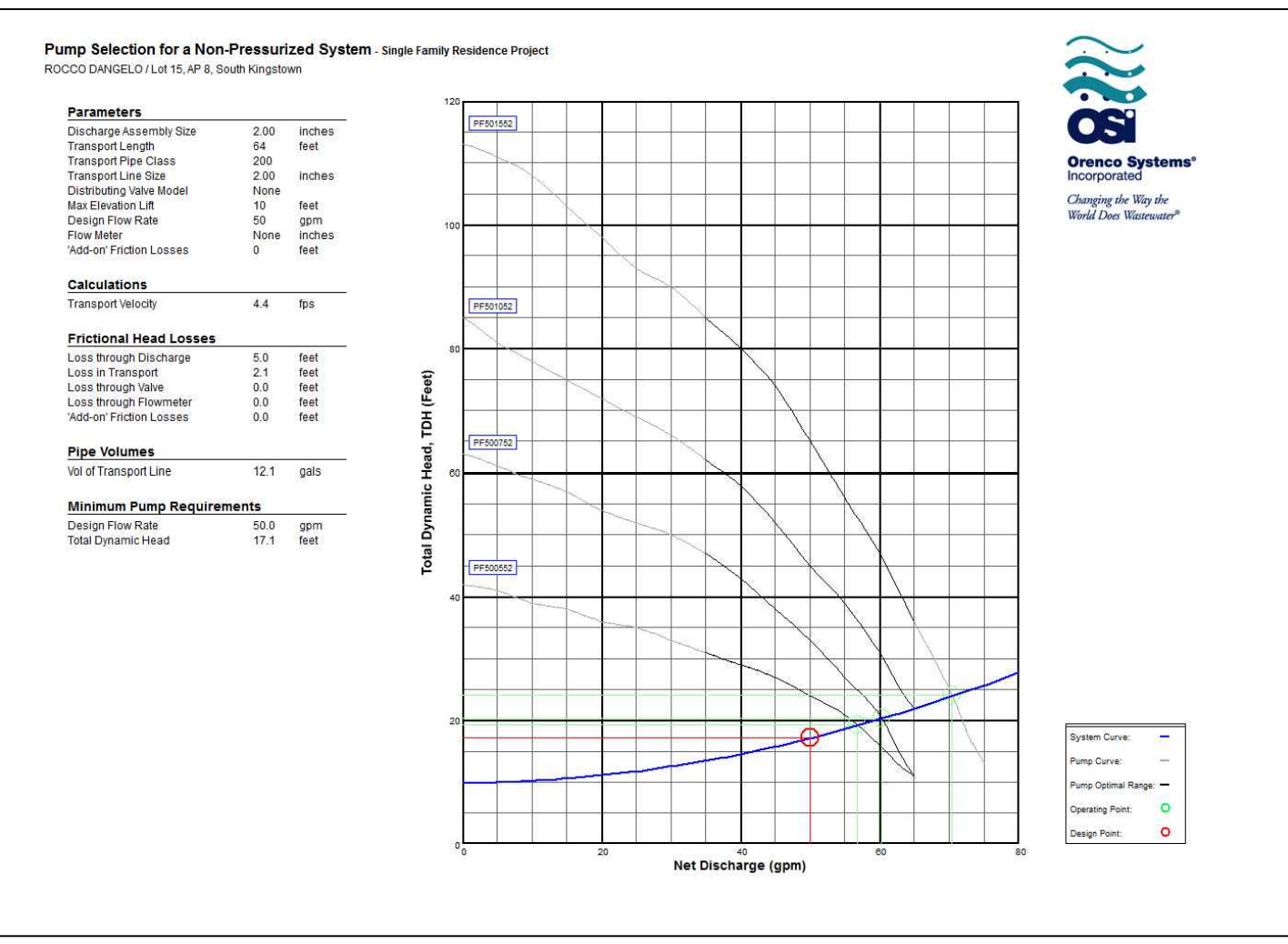
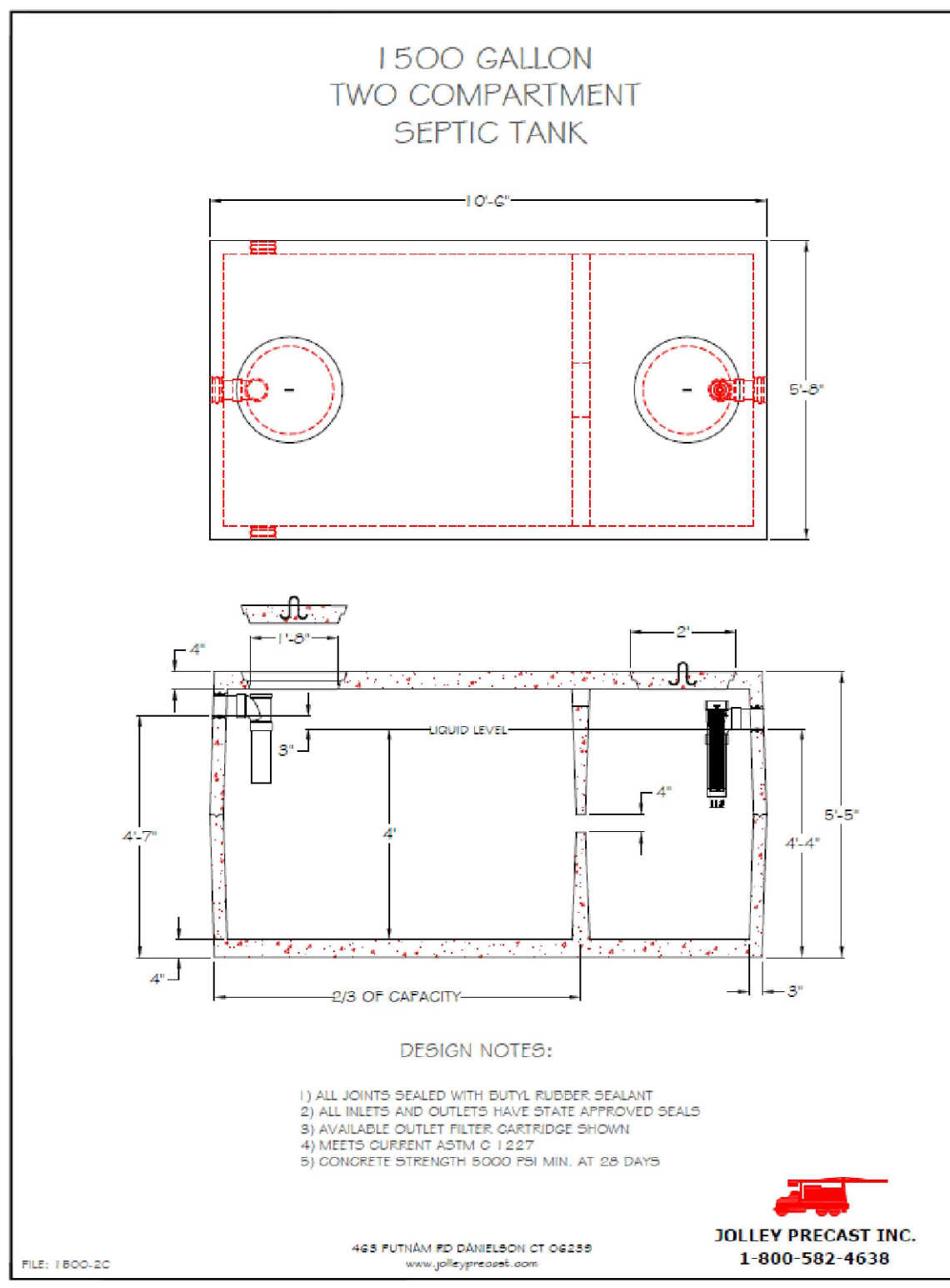


OWTS DETAILS & TYPICALS

SERSC DETAILS & TYPICALS

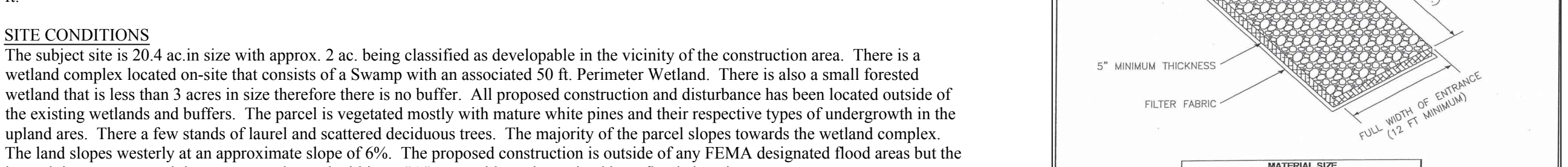
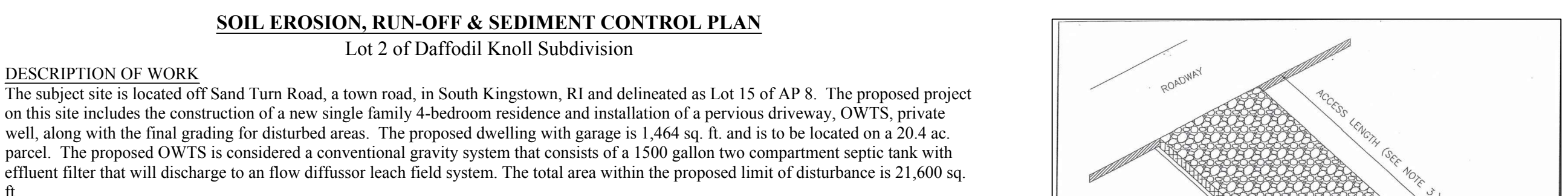
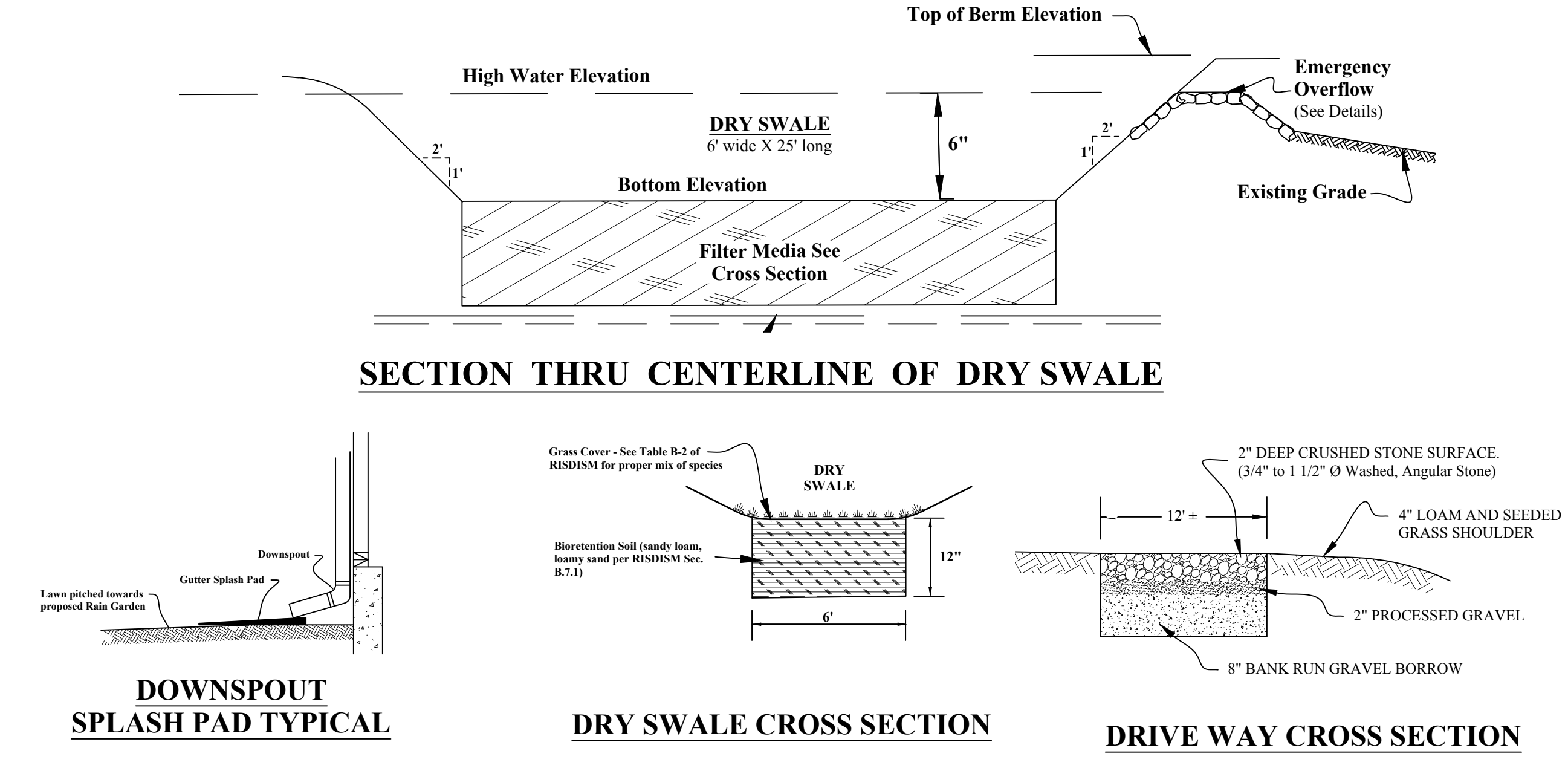
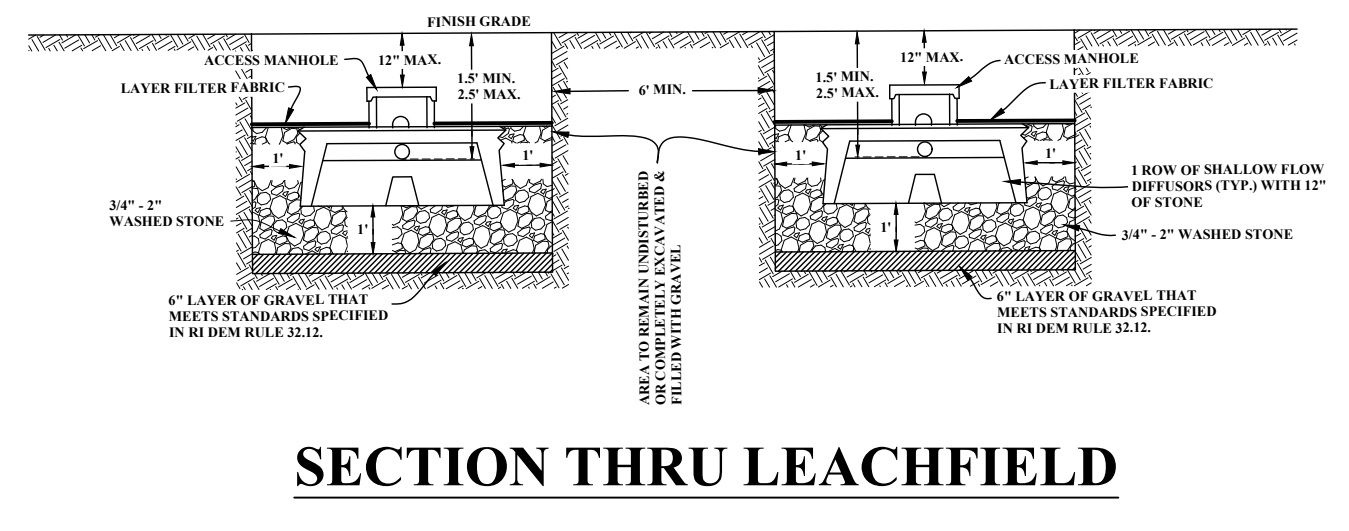
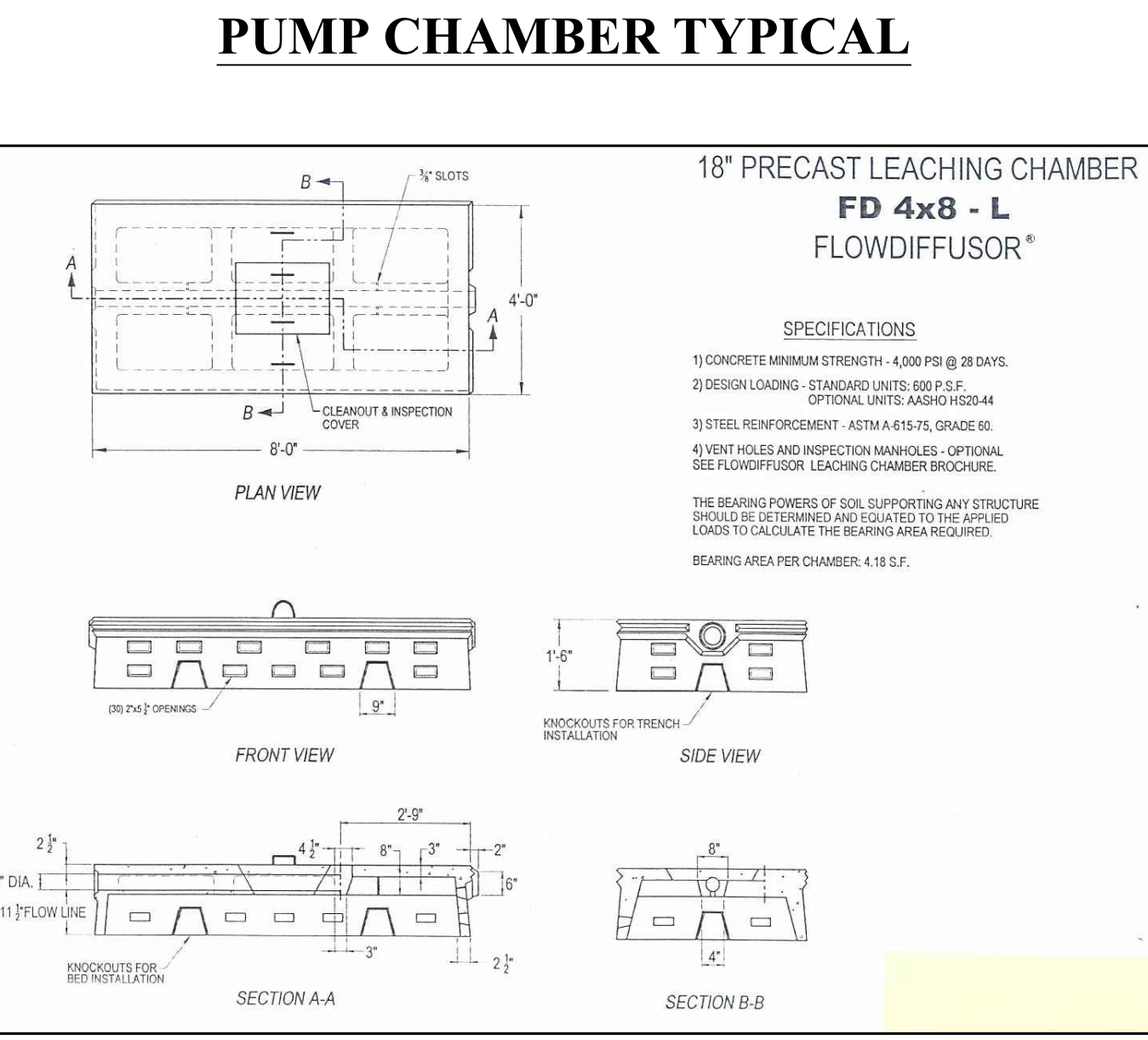
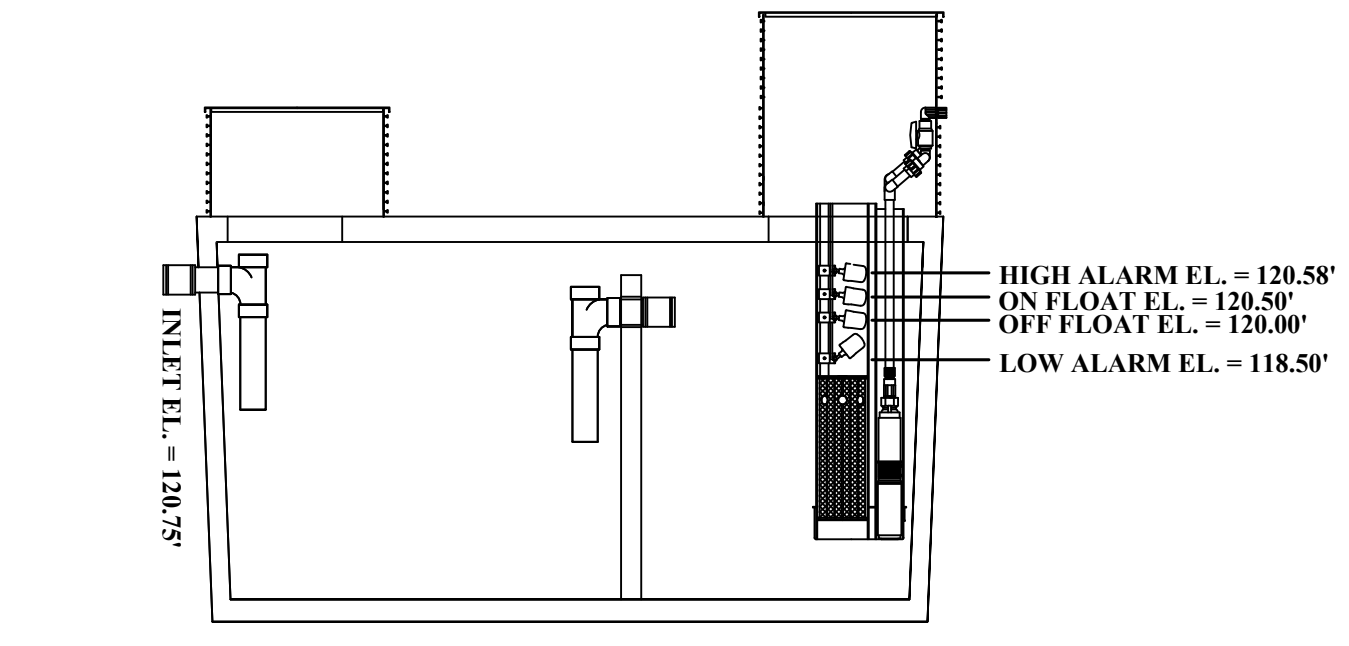
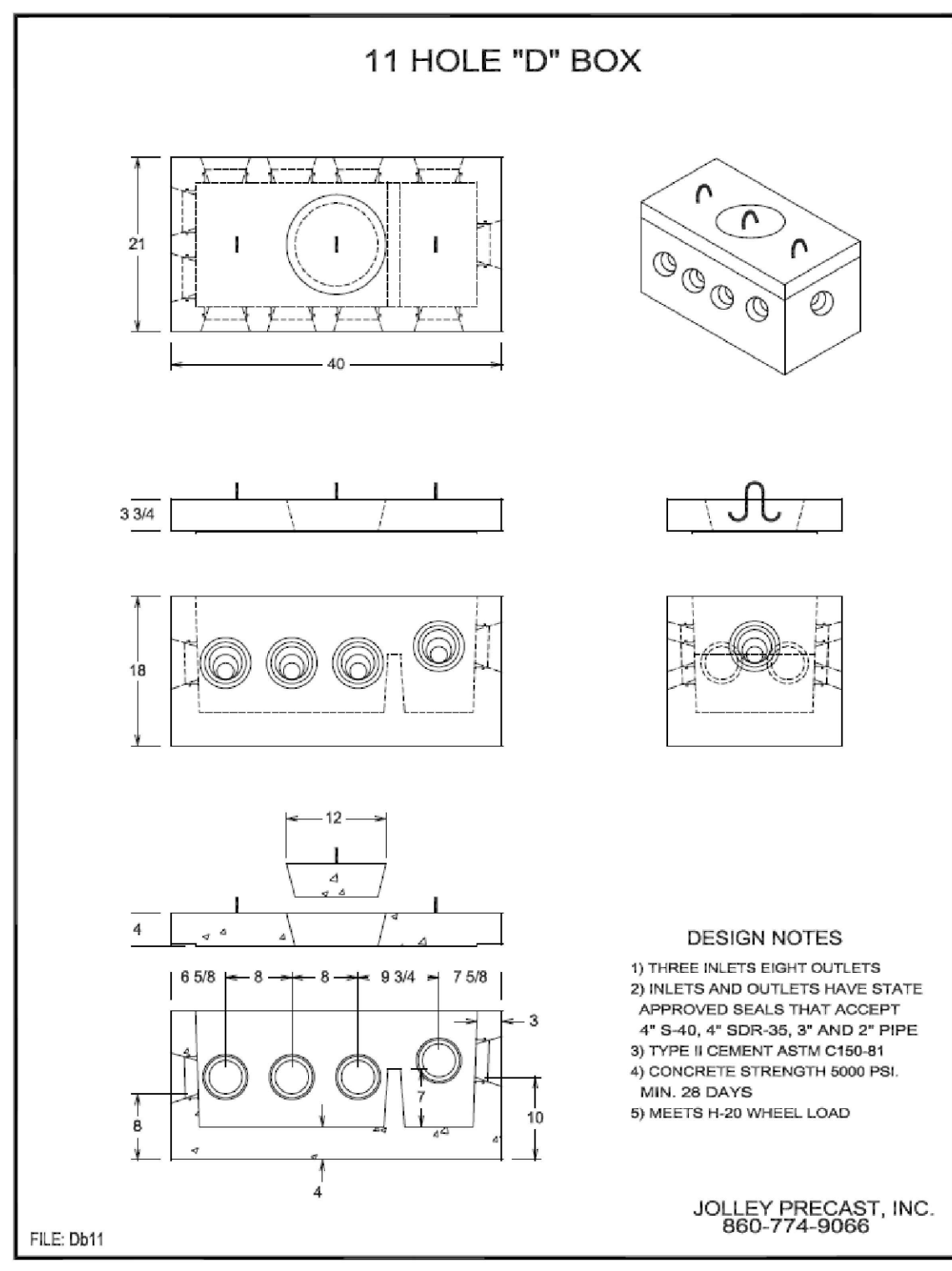


PUMP COMPUTATIONS:

CRITERIA
PIPE DIAMETER: 2 in.
PIPE LENGTH: 64 ft.
PIPE CLASS: 200

PUMP CHAMBER DEMAND DOSE
CHAMBER SIZE: 3.5' x 4' = 14 sq. ft.
CHAMBER CAPACITY: 14 sq. ft. x 1/12 ft. x 7.48 Gal. = 8.72 Gal./in.
ON/OFF DIFFERENTIAL: 50 Gal/Dose / 8.72 Gal/in. = 5.7 in.
PUMP FLOW RATE: 30 gpm
ON TIME: 50 Gal/Dose / 30 gpm = 1.7 min.

DOSing
TOTAL FLOW = 460 GPD
USE 50 GAL/DOSE



DESCRIPTION OF WORK
The subject site is located off Sand Turn Road, a town road, in South Kingstown, RI and delineated as Lot 15 of AP 8. The proposed project on this site includes the construction of a new single family 4-bedroom residence and installation of a pervious driveway, OWTS, private well, along with the final grading for disturbed areas. The proposed dwelling with garage is 1,464 sq. ft. and is to be located on a 20.4 ac. parcel. The proposed OWTS is considered a conventional gravity system that consists of a 1500 gallon two compartment septic tank with effluent filter that will discharge to a flow diffuser leach field system. The total area within the proposed limit of disturbance is 21,600 sq. ft.

SITE CONDITIONS
The subject site is 20.4 ac. in size with approx. 2 ac. being classified as developable in the vicinity of the construction area. There is a wetland complex located on-site that consists of a Swamp with an associated 50 ft. Perimeter Wetland. There is also a small forested wetland that is less than 3 acres in size therefore there is no buffer. All proposed construction and disturbance has been located outside of the existing wetlands and buffers. The parcel is vegetated mostly with mature white pines and their respective types of undergrowth in the upland areas. There are a few stands of laurel and scattered deciduous trees. The majority of the parcel slopes towards the wetland complex. The land slopes westerly at an approximate slope of 6%. The proposed construction is outside of any FEMA designated flood areas but the lower lying areas around the swamp are located within an "A" zone with no determined base flood elevation.

SOILS
The soils for this area within the construction zone are classified as AFB, Agawam fine sandy loam, 0 to 3 percent slopes. The permeability of these soils range from moderately low to high with very low runoff characteristics. This soil is classified as Hydrological Soil Group B.

EROSION & SEDIMENT CONTROL MEASURES
A construction access stone pad will be utilized for access to the construction area from Sand Turn Road in the location of the existing driveway. A silt fence will be employed on the down gradient side of all stock piles and on the down gradient side of the perimeter of the construction zone. If the stock piles are to remain undisturbed for a period of 3 months or more, then a temporary vegetative cover shall be applied. Periodic watering will be instituted on disturbed areas that receive traffic to control dust erosion. All management, vegetative, structural erosion and sediment control practices will be constructed and maintained in accordance with the Rhode Island Soil Erosion and Sediment Control Handbook.

PERMANENT & TEMPORARY STABILIZATION
A stone construction access pad will be installed for a minimum of 50 feet to act as a wheel cleaning blanket for the construction vehicles. This construction pad shall be placed prior to the start of any excavation and shall remain in place until the construction site has been stabilized.

A silt fence will be installed along the down gradient side of the limit of disturbance for the proposed construction site before the start of any excavation for a construction barrier and for sediment control. Once stock pile materials are created, a silt fence shall be immediately erected on the down gradient side of the pile to control sediments from runoff.

All erosion and sediment control measures will be checked weekly and after each significant rainfall. If sufficient rain events do not occur, the periodic watering of the disturbed areas that receive construction traffic shall be done to control dust as needed.

All disturbed areas will be loamed and seeded after construction is complete. All seeded areas will be checked regularly to see that a good stand is maintained. Areas shall be re-seeded as needed.

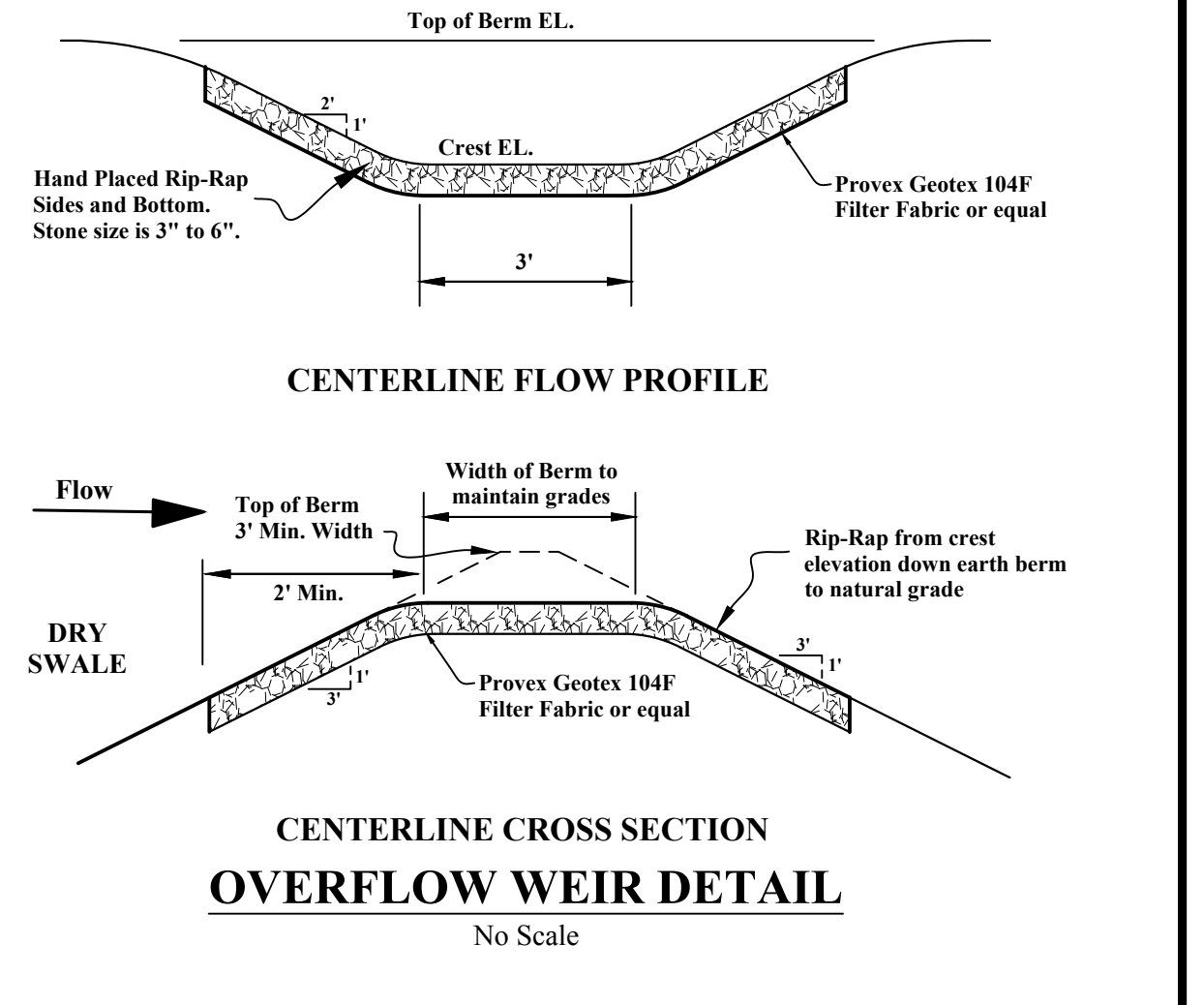
INSPECTION & MAINTENANCE REQUIREMENTS
The following areas must be inspected by or under the supervision of the owner and operator at least once every seven calendar days and within twenty four hours after any storm event which generates at least 0.25 inches of rainfall per twenty four hour period and/or after a significant amount of runoff. a. All areas that have been cleared, graded or excavated and that have not yet completed stabilization; b. All storm water erosion, runoff, and sediment control measures; c. Construction material, un-stabilized soil stock piles; d. All areas where storm water typically flows within the site; e. All points of discharge from the site; f. All locations where temporary or permanent soil stabilization measures have been implemented; g. All locations where vehicles enter or exit the site. If the inspector find a problem he/she must ensure that the necessary repairs or modifications area made by the close of the next work day after discovering the problem.

STORMWATER MANAGEMENT
Stormwater runoff for the proposed parcel will be handled on-site by means of Vegetated Swales, a best management practice allowed under the RI Stormwater Manual. The swale will collect roof runoff and a majority of the lawn runoff to provide proper treatment for groundwater recharge and water quality, mitigation of the 10 YR storm event, and proper attenuation of the 100 YR storm event. The proposed dry swale is recommended to be inspected and maintained in accordance with the RI Stormwater Manual and the Stormwater Operation & Maintenance outlined hereon.

SEQUENCE OF CONSTRUCTION
Construction is expected to begin shortly after Final Subdivision Approval is obtained. It is expected that construction activities will last between six and twelve months. The planned priority of construction for each of the lots is as follows:

1. Marking of all limits of disturbance per plans
2. Overall clearing of trees in all construction areas
3. Placement of down gradient silt fence per plans
4. Grubbing and clearing of stumps and boulders
5. Roughing out and preliminary grading of the driveway and installation of construction entrance and rough grading of the dry swale
6. Protection of those grubbed areas until completion of whatever facilities are being built.
7. Excavation of the foundation and construction of the dwelling.
8. Installation of the on-site waste water treatment systems and private well
9. Completion of the dry swale and plumbing of all downspouts
10. Final grading of disturbed areas, seeding and stabilization. Insure final growth, landscaping, cleanup and stabilization of all disturbed areas.

STATEMENT OF RESPONSIBILITY
Rocco Dangelo, owner of the parcel, is assigned the responsibility for the erosion and sediment control measures and informing all parties working on the construction site of the erosion and sediment control plan requirements and objectives. The above named person shall notify the offices of the building inspector and public works of any transfer of this responsibility and for the conveyance of the erosion and sediment control requirements if the title of the land is transferred.



STORMWATER OPERATION & MAINTENANCE
The complete storm water control system shall be inspected twice annually with periodic inspection for each integral part of the control system as listed below. Maintenance of the individual components of the storm water control system shall be as outlined below for each item.

DRY SWALES

Inspection

- Twice annually
- After every large storm event (2.5" to 3" of rain per 24 hrs.)
- Inspect for any erosion or scouring along sides of swale
- Check for debris or trash accumulation
- Check for erosion on side walls and bottom of swale
- Check for proper vegetative growth
- Check for any over banking areas

Maintenance

- Remove any trash or debris
- Repair any erosion or gullying and re-vegetate immediately
- Dry Swale to be mowed as required to maintain heights in the 4-6 inch range, with mandatory mowing once heights exceed 10 inches

STORMWATER POLLUTION PREVENTION PLAN
The following is a list of items that should be incorporated into the operation and functioning of the developed residential areas once constructed. These items are intended as preventative controls to minimize the potential impact the use may have on pollution of the stormwater runoff quality.

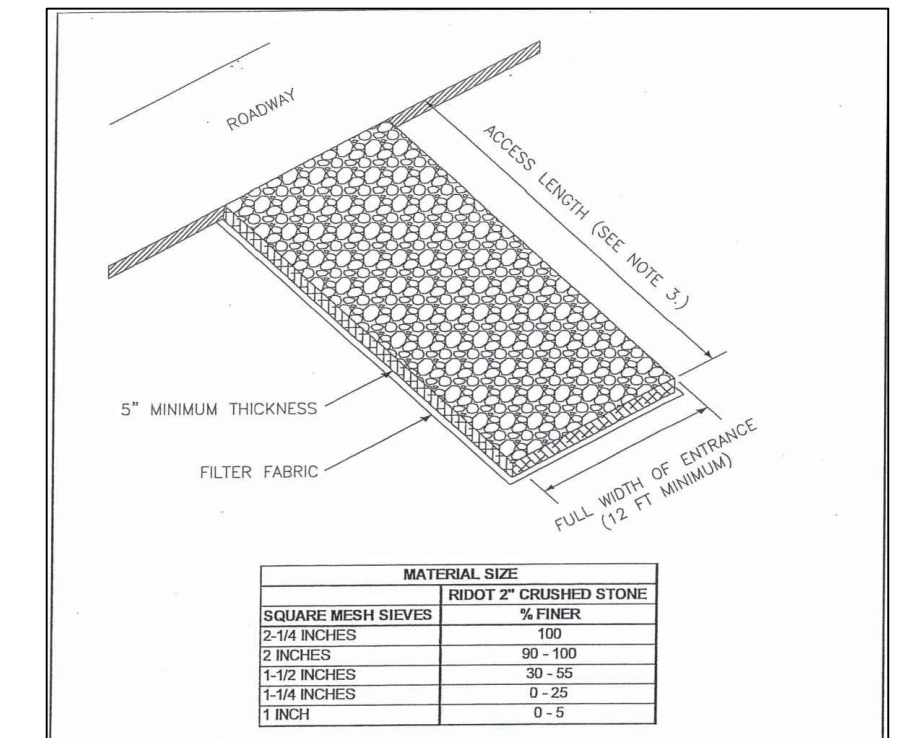
DRIVEWAYS, PARKING AREAS
All driveways and parking areas are to be well maintained with proper grading to prevent puddles and rutting. They are to be kept clean of any litter or debris. The snow plowing of the driveways and parking areas are to be done in a manner that prevents any dumping or snow piles from plowing to be located near any drainage structures inlets or outlets. Salting of the driveway or parking areas is to be kept to a minimum and only when necessary (Not every storm event). The shoulders of the driveway and parking areas are to be kept mowed and clean of litter.

HAZARDOUS MATERIALS
Any hazardous material that is planned to be stored on the site shall be stored indoors in proper storage containers as may be mandated by local, state and/or federal regulations. Oil, grease or fuel spills from visiting vehicles shall be immediately absorbed up with absorption pads or powders and disposed of in a proper receptacle.

SOLID WASTE
All drainage structures should be kept clean of any trash or litter. All areas of the parcel shall be kept clean of litter or trash to prevent windblown or water born trash from entering any stormwater structures. Homeowners shall pickup and dispose of pet waste in a proper receptacle.

SEPTIC MANAGEMENT
The septic systems for the house and barn are to be inspected on a regular basis and pumped when required. The inspection schedule is to follow any local waste water management program. Lacking a local ordinance, the procedures outlined in the RI DEM Septic System Checkup/Inspection manual should be followed.

LAWNS
Any lawn areas around the structure and grassed driveway shoulders shall be maintained to insure a good growth. No bare soil areas are to be allowed. Minimal Fertilizer is to be used, as well as minimal watering. The fertilizing shall be no more than once or twice a year

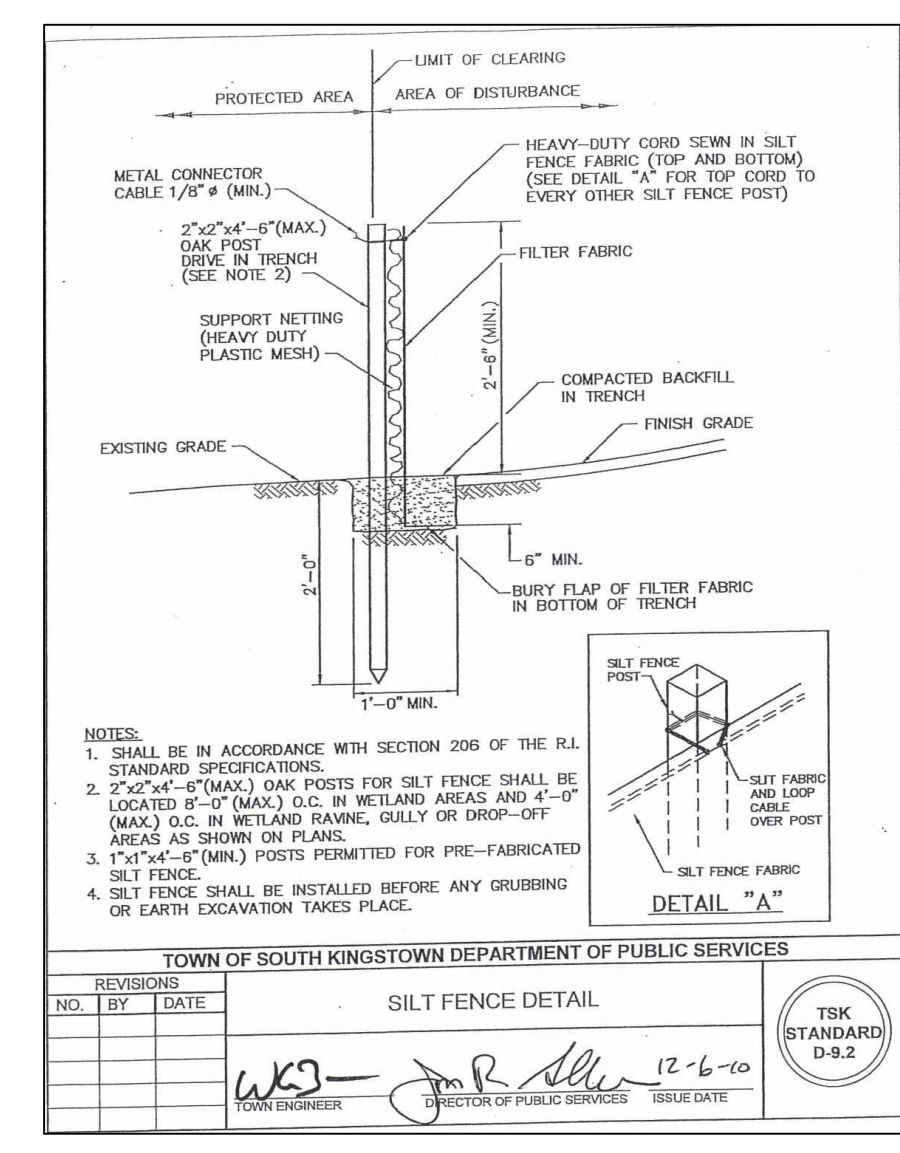


MATERIAL SIZE	PERCENT OF CRUSHED STONE
2 1/2 INCHES	100
2 INCHES	98 - 100
1 1/2 INCHES	95 - 98
1 INCH	90 - 95
3/4 INCH	85 - 90

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
2. CRUSHED STONE SHALL CONFORM TO THE REQUIREMENTS OF M.O.I.09 OF THE R.I. STANDARD SPECIFICATIONS.
3. LENGTH SHALL BE 50 FT MINIMUM IN SAND AND GRAVEL AREAS OR 100 FT MINIMUM IN SILT AND CLAY AREAS. LENGTH MAY BE REDUCED IF TRAVEL LENGTH IS LESS.

TOWN OF SOUTH KINGSTOWN DEPARTMENT OF PUBLIC SERVICES
CONSTRUCTION ACCESS ENTRANCE
12-6-10



CHAREE M. JACKSON
No. 9600
REGISTERED PROFESSIONAL ENGINEER CIVIL

DETAILS & TYPICALS FOR
ONSITE WASTEWATER TREATMENT SYSTEM & S.K. SOIL EROSION & SEDIMENT CONTROL PLAN
LOT 15 of A. P. 8
IN THE TOWN OF SOUTH KINGSTOWN, RI
PREPARED FOR
ROCCO DANGELO
DECEMBER 2019
NO SCALE
SHEET 2 OF 2

JACKSON SURVEYING, Inc.
SURVEYING & ENGINEERING
P.O. BOX 454 CHARLESTOWN, RI 02813 PH. (401) 364-3130