EROSION AND SEDIMENTATION CONTROL

GENERAL

A rapid and well ordered construction project at this site resulting in the limitation of extent and time in which surfaces are not erosion resistant shall be the primary erosion and sedimentation control method utilized at this site.

The flat slopes and heavy vegetation between the area of construction and the wetlands at the rear of the property should limit the possibility of products of erosion impacting the wetland.

The transport of or tracking of earth to Stoneymeade Way where it could be "washed" to catch basins or wetland resource areas is of greater concern.

The area of disturbance shown on the plans is less than one acre. Disturbance of over one acre requires a filing with US EPA.

CLEARING

Prior to clearing the limit of work shall be demarcated. Invasive vegetation shall be removed and transported off site for disposal by incineration. All other vegetation shall be removed and disposed of within one week of cutting, except woodchips which should be retained on site for erosion control.

EROSION BARRIERS

As shown on the plan a double row of silt fences shall be installed at the rear of the house and its toe sealed with wood chips. The barriers are to serve as a limit of work/disturbance.

The existing Stoneymeade Way driveway shall be used for access and double rows of sand bag dikes shall be placed across the bottom to divert runoff to a basin formed by placing sand bags in a "U" shape. The capacity of the basin will be minimal and earthen products must be removed from the driveways and the area tributary to the sand bags must be kept stable or materials will be transported beyond the sand bags.

A broom and shovel shall be kept at the site for policing the driveway and Stoneymeade Way.

Temporary construction entrances or tracking pads are shown and their locations must be adjusted to correspond with changes in site conditions.

Silt fences and sand bag check dams shall be installed as necessary to decrease the concentration of runoff and transport of products of erosion.

SITE CONSTRUCTION

The foundations shall be excavated by a small track mounted excavator. Topsoil shall be stripped and retained on site for site stabilization.

Earthen materials not required for foundation backfill shall be removed from the site as excavated. The two stockpile areas shown are for topsoil and for the materials required for backfill.

The foundations shall be backfilled within five working days of the removal of foundation forms.

Any wash down of concrete trucks shall be discharged to the foundation trench. No discharge of wash down water to the surface of the ground shall be allowed.

All subcontractors shall be informed of the need to protect the wetland resource areas and the importance of the buffer zones.

Building materials shall be stored in a manner that will not concentrate runoff and create unnecessary traffic. Containers shall be utilized for disposal of refuse except liquid wastes which shall be placed in sealed containers and transported offsite, on the day generated, for required disposal.

The site shall be kept neat and litter free.

Driveways shall be brought to binder course as soon as possible to limit rutting. The placement of pavement will enhance the transport of products of erosion from tributary surfaces and efforts shall be made to limit runoff, control erosion and capture materials prior to their reaching the pavements.

Stabilization shall be an on going process and not be delayed until final landscaping. Topsoil has a high erosion potential.

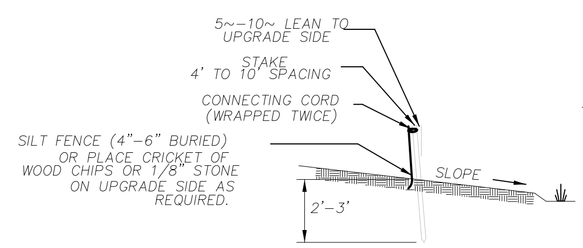
RECHARGE SYSTEMS

Stormwater management for the site is accomplished by drip line recharge trenches at the houses and recharge trenches along portions of the driveway. The long term viability of these facilities will be adversely impacted if products of erosion reached them.

The area under the deck and stairs shall be covered with 6 inches of stone.

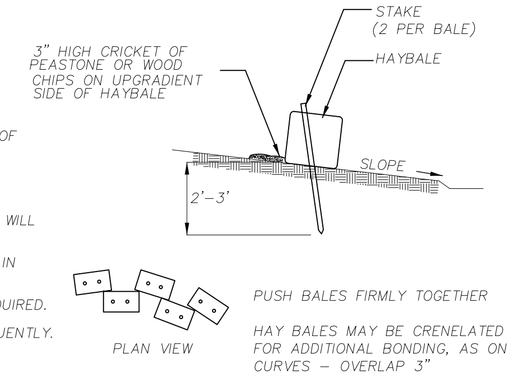
Prior to the construction of the recharge facilities areas tributary to them shall be made erosion resistant and barriers such as sand bag dikes shall be installed as required to provide necessary protections.

After there installation the site shall be maintained to limit the transport of soil, debris and landscape litter to the recharge trenches.



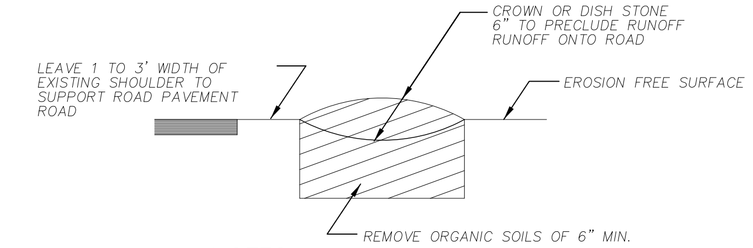
NOTES:

1. FENCES SHALL BE LOCATED AT LIMIT OF WORK, OR AS SHOWN ON PLANS.
2. PENETRATE OR "SNUG" GROUND WITH BOTTOM FOR ENTIRE LENGTH.
3. DO NOT INSTALL IN A MANNER WHICH WILL CONCENTRATE RUNOFF.
4. BACK FENCE WITH STAKED HAYBALES IN HIGH RISK AREAS.
5. MAINTAIN AND REMOVE FENCE AS REQUIRED.
6. REMOVE PRODUCTS OF EROSION FREQUENTLY.



EROSION CONTROL BARRIER

(TWO ALTERNATIVES)
N.T.S.

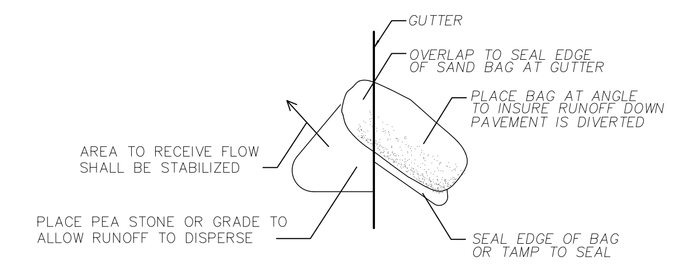


NOTES:

1. STONE SHALL BE 1-3" IN SIZE AND INSTALLED TO REMOVE AND ENTRAP MATERIALS FROM TIRES AND NOT BE TRANSPORTED TO ROAD.
2. STONE SHALL EXTEND ACROSS FULL WIDTH OF ENTRANCE AND BE OF SUFFICIENT LENGTH TO PRECLUDE MUD FROM REACHING ROAD.
3. STONE SHALL BE REPLACED AS REQUIRED TO INSURE MUD REMOVAL.

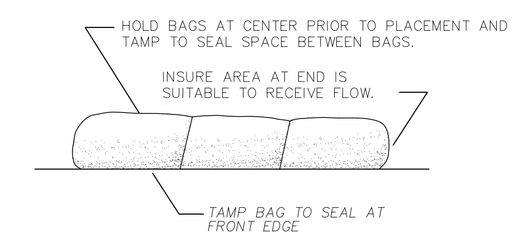
TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.



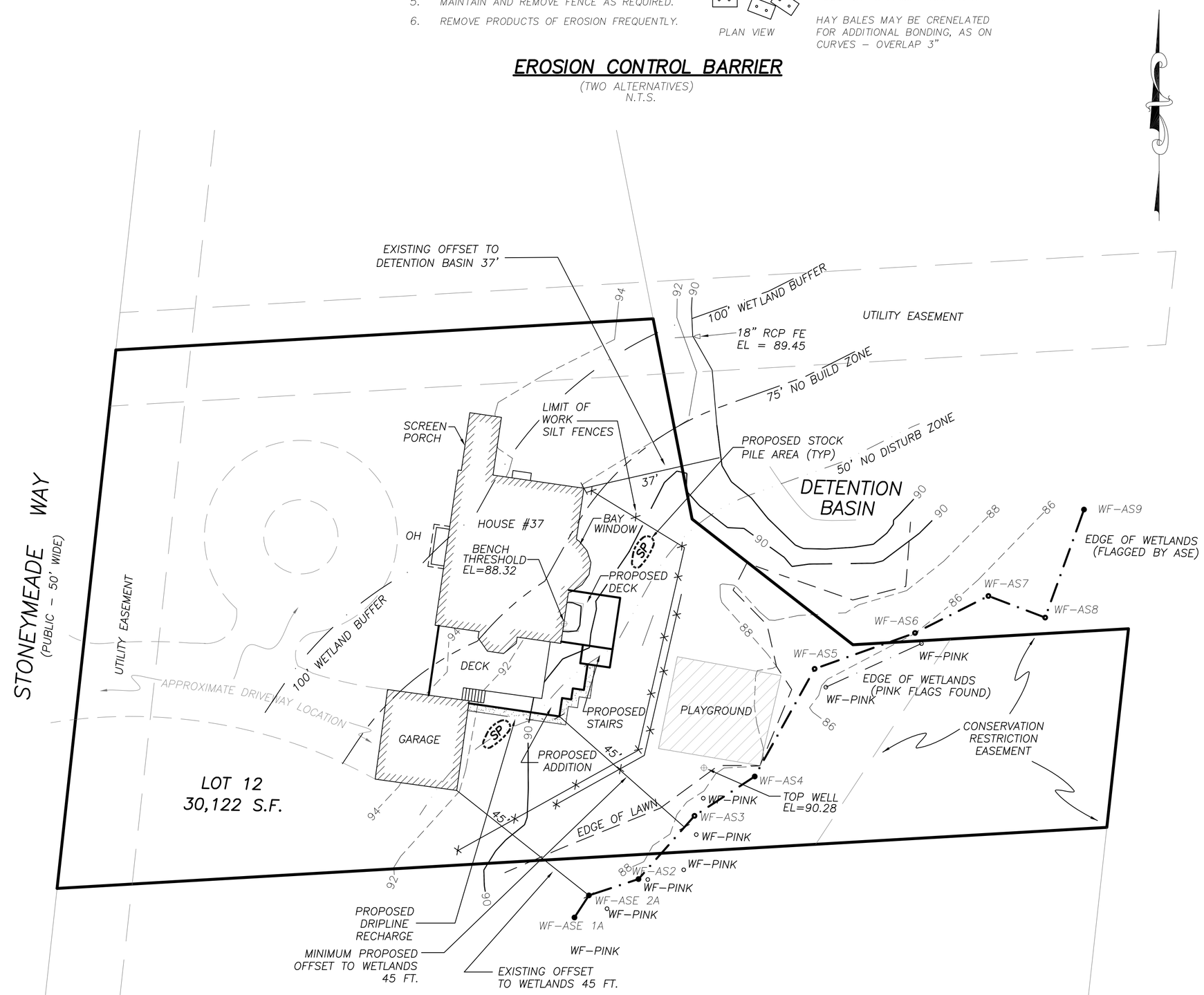
SAND BAG CHECK DAM DETAIL

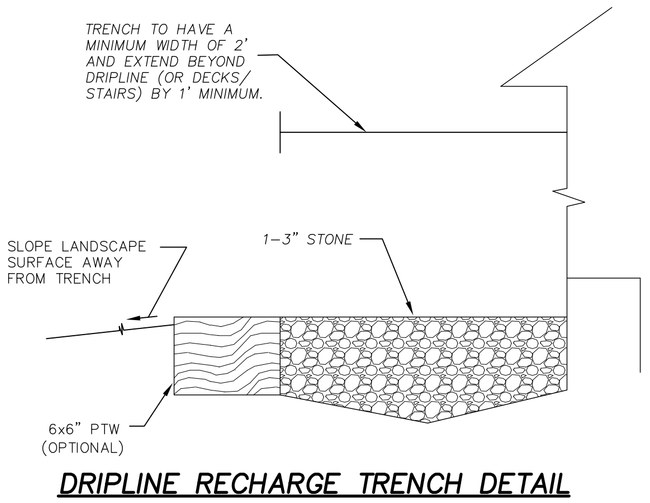
N.T.S.



SAND BAG DIKE DETAIL

N.T.S.





DRIPLINE RECHARGE TRENCH DETAIL

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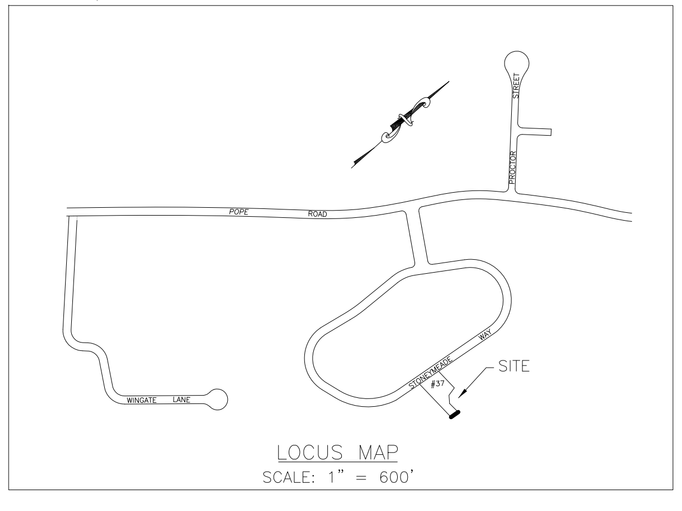

LOCUS MAP
SCALE: 1" = 600'

No.	DATE	DESCRIPTION
2	9/29/9	REVISED ADDITION TO MEET WETLAND SETBACK
1	8/27/09	ADDITION FOOTPRINT & WETLANDS

REVISIONS

EROSION AND SEDIMENTATION CONTROL PLAN

37 STONEYMEADE WAY
ACTON, MA

PREPARED FOR:
STEPHEN & ANNARITA DEMARCO
37 STONEYMEADE WAY
ACTON, MA 01720

SCALE: 1"=20' DATE: JUNE 29, 2009

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