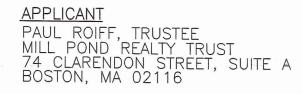
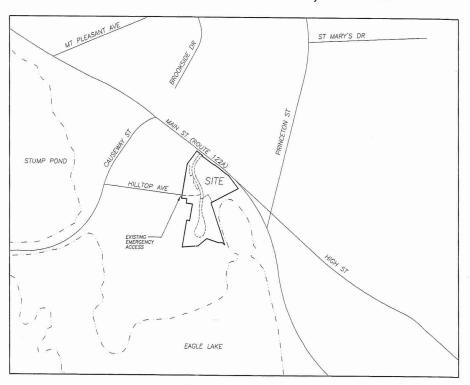
"JEFFERSON MILL"

SITE PLAN DRAWINGS

1665 MAIN STREET HOLDEN, MASSACHUSETTS 01520

JUNE 28, 2005
REVISED: AUGUST 16, 2005
REVISED: NOVEMBER 17, 2005
REVISED: DECEMBER 6, 2005
REVISED: FEBRUARY 21, 2006
REVISED: SEPTEMBER 5, 2012





LOCUS MAP
Scale: 1" = 400 ft.

SHEET INDEX

- 1 Existing Conditions Plan
- 2 Site Plan
- 3 Utility Site Plan
- 4 Landscape & Lighting Plan
- 5-6 Site Details
- 7 Erosion & Sedimentation Control Plan

ANDRYSICK LAND SURVEYING

AN OFFICE OF ACTON SURVEY & ENGINEERING, INC.

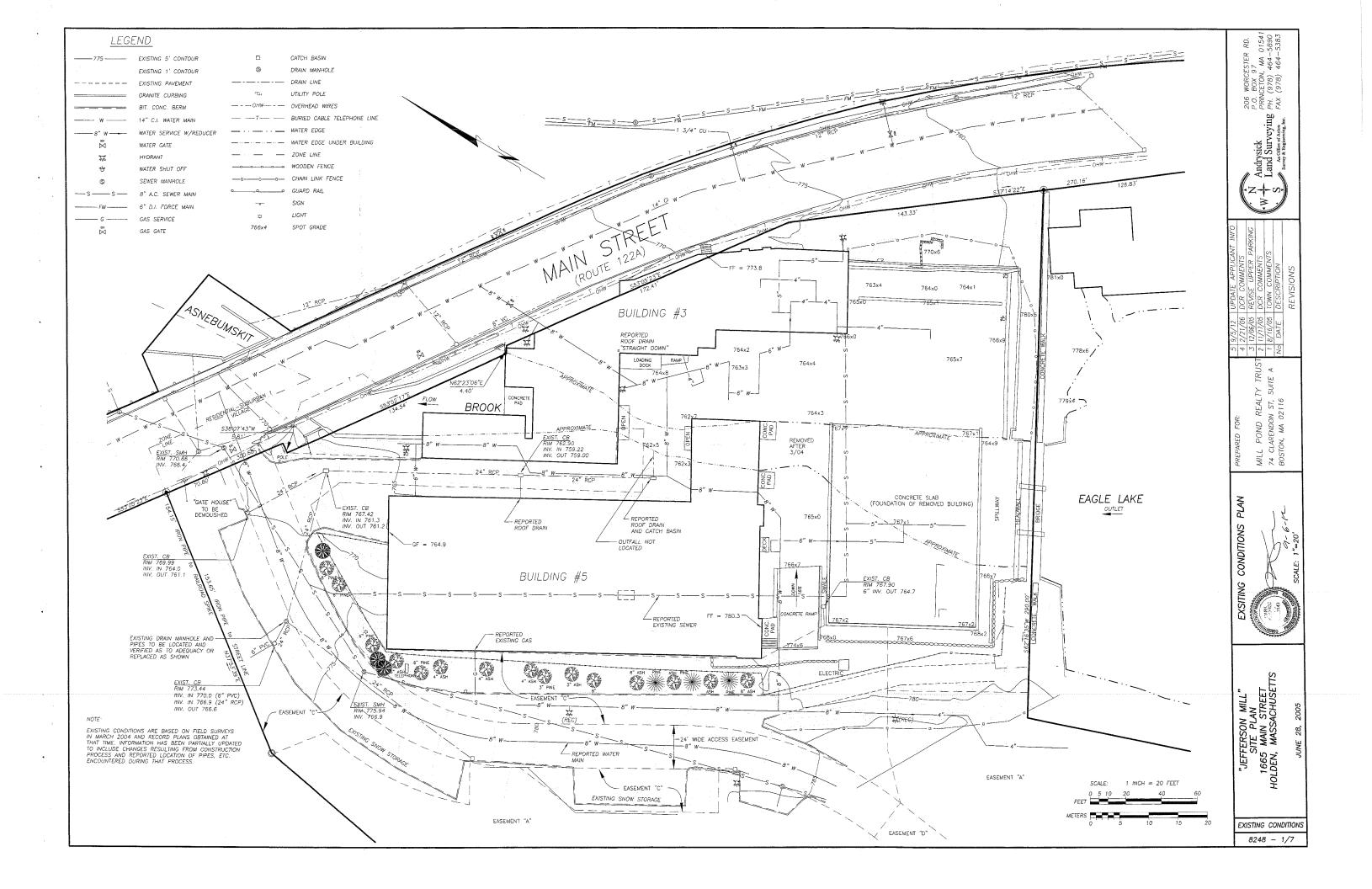
Civil Engineers - Land Surveyors - Environmental Scientists

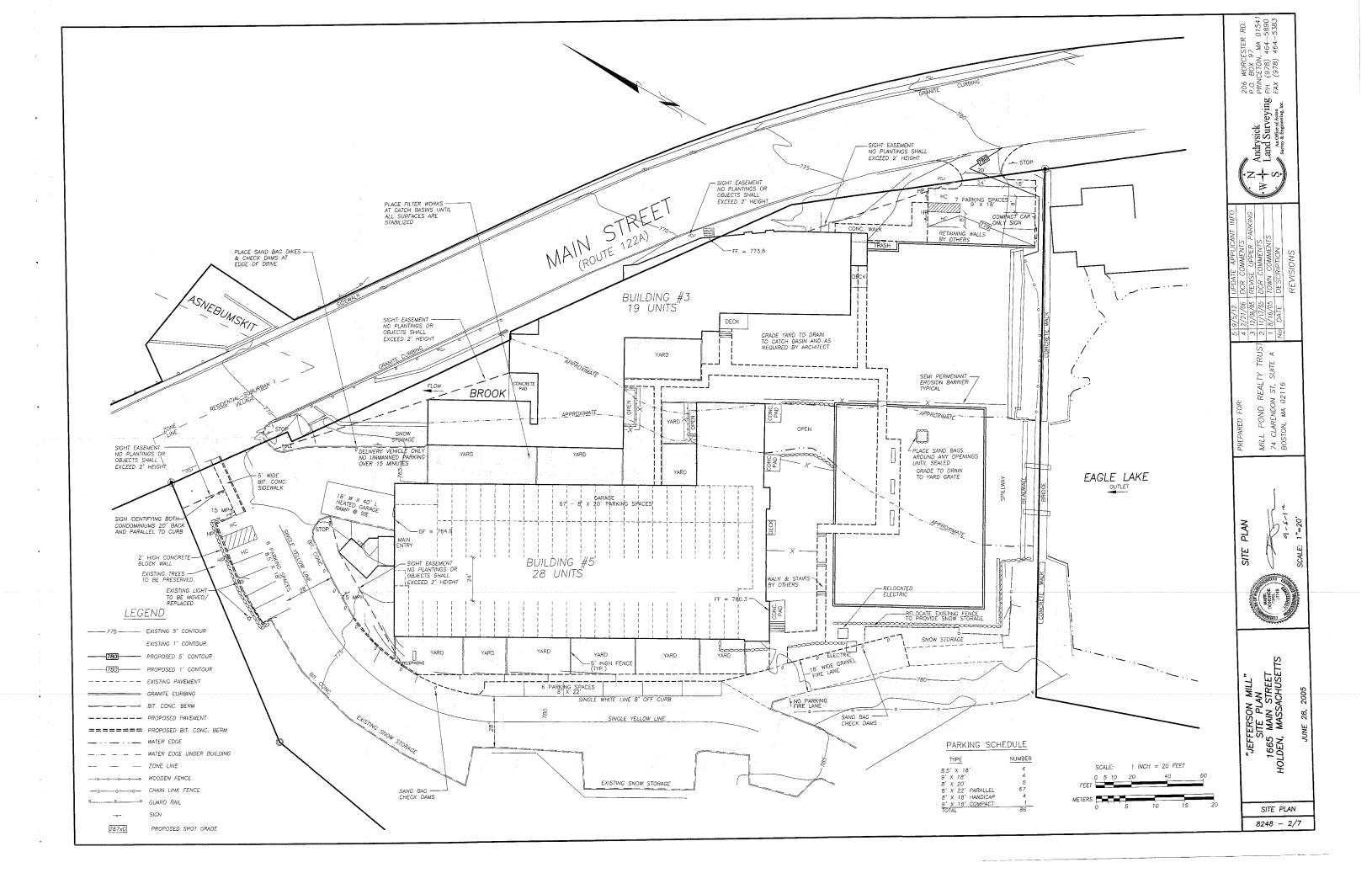
206 Worcester Road P.O. Box 97

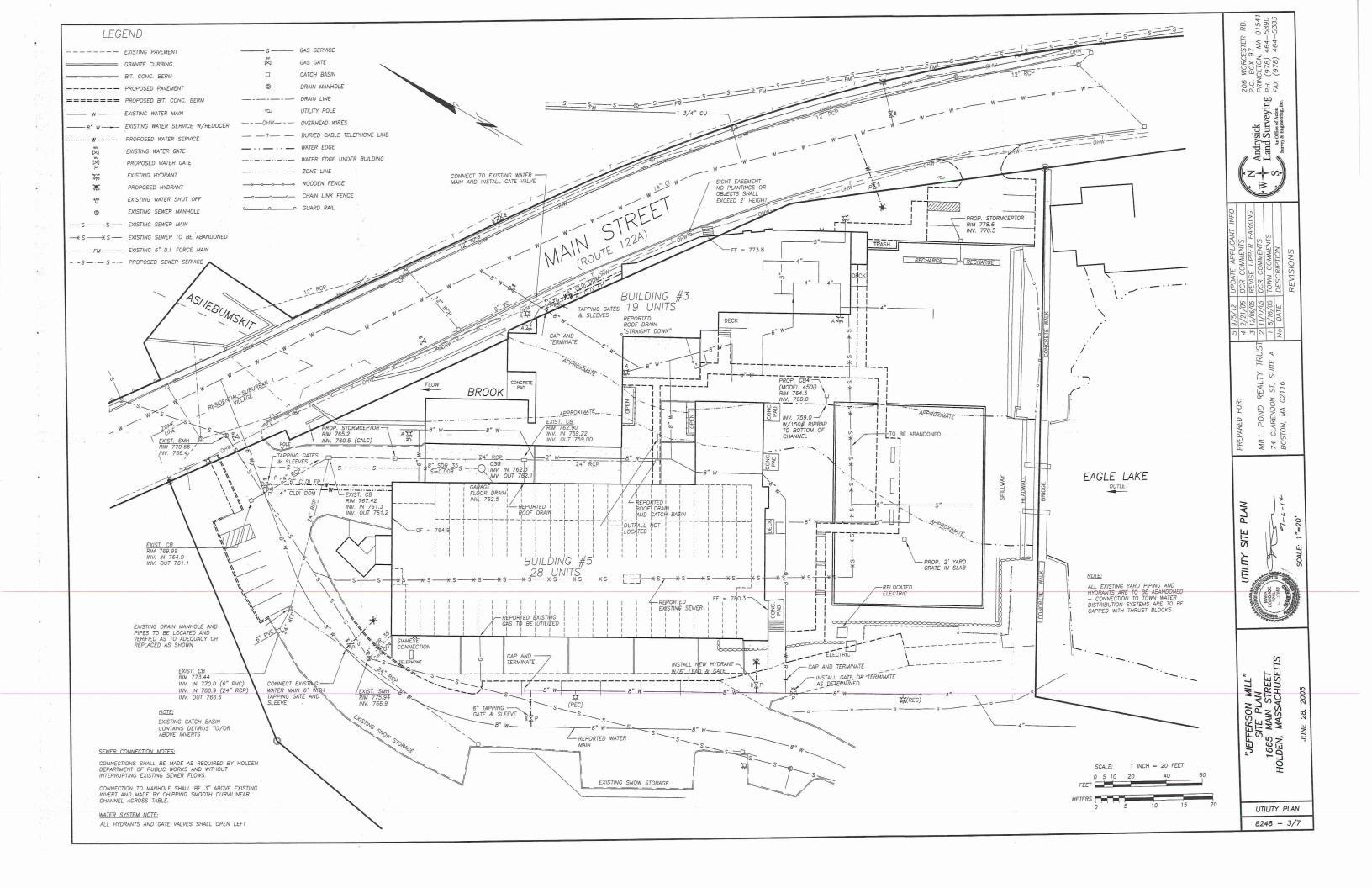
Princeton, Massachusetts 01541

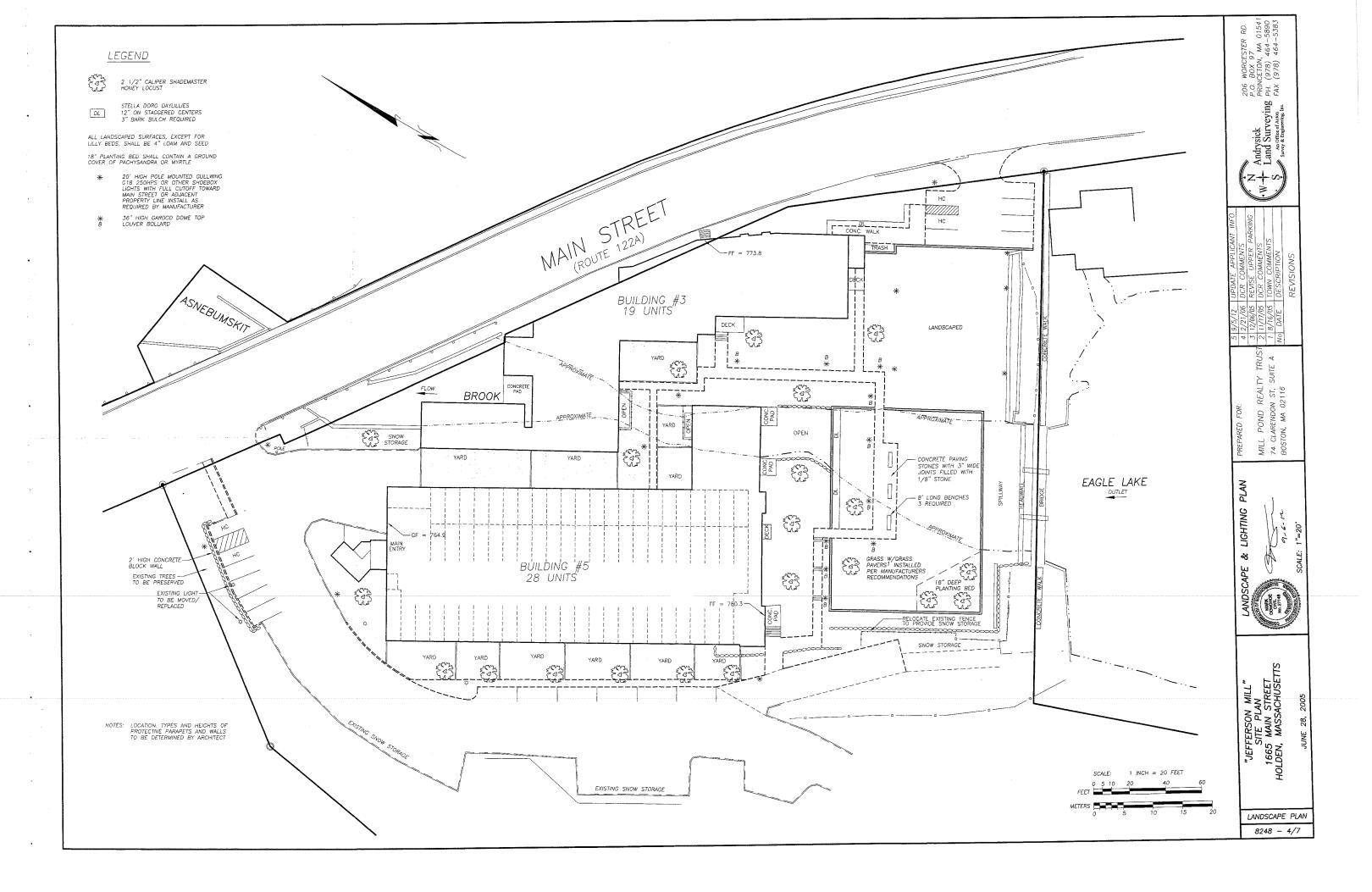
Phone: (978) 464-5890 Fax: (978) 464-5383

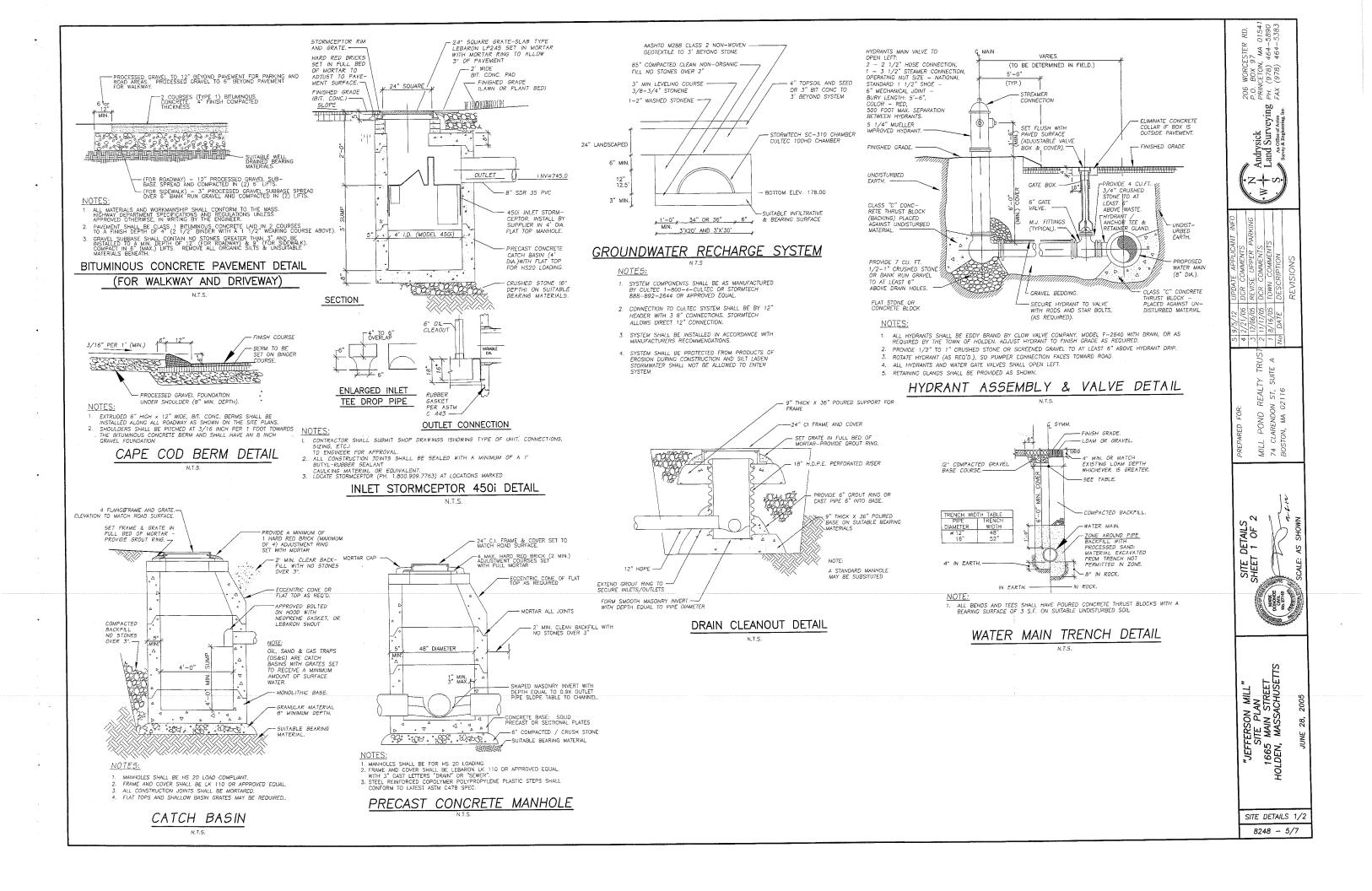


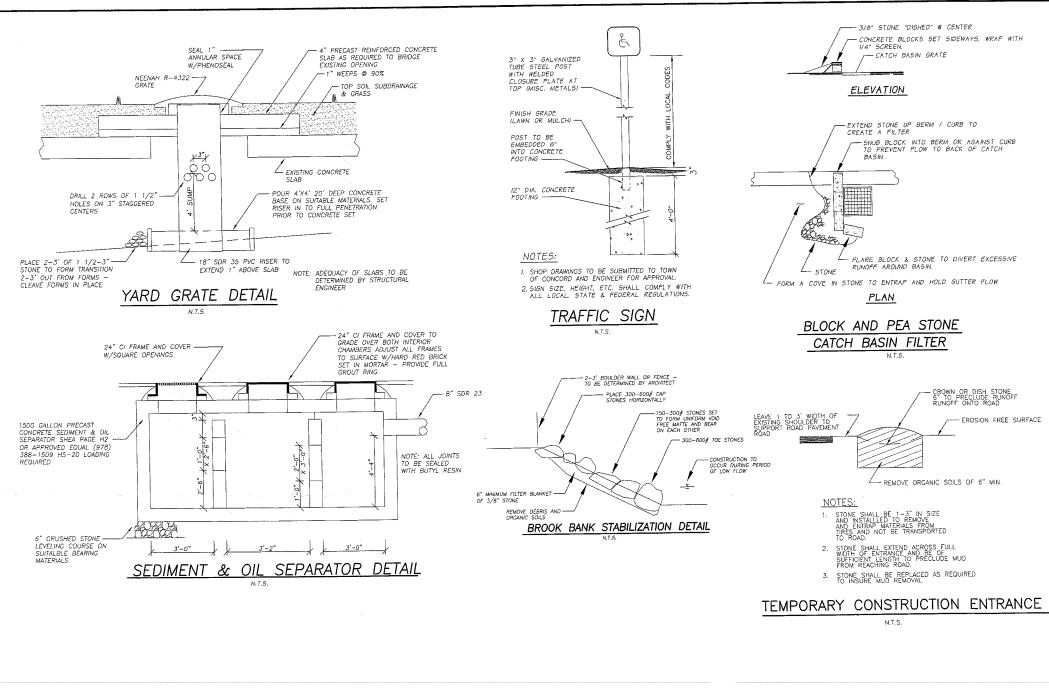












GENERAL NOTES:

1. Plans were prepared for named client and project. Reproduction in whole, in part or by adaptation for other purposes is expressly prohibited.
2. Drawings shall not be scaled. If clarification of intent is REQUIRED, contractor shall obtain prompt clarification prior to continuing work.
3. Contractor shall wist site prior to initiation of work and shall notify ACTON SURVEY & ENGINEERING, INC. and owner of any discrepancies with site conditions, or proposed construction, and acte discovered.
4. Contractor shall be responsible for coordinating proposed construction with existing conditions.
5. Contractor shall notify Dig-Safe [1-888-344-7233] and verify all underground utilities prior to construction.
6. Contractor shall be responsible for obtaining all necessary permits and licenses.
7. All work shall conform to all local and state regulatory agencies and utility company requirements.

7. All work shall conform to all local and state regulatory agencies and utility company requirements.

8. Upon entering the SITE, the contractor shall become responsible for all erasion control, dewatering and shall undertake all measures to protect wetlands, the drainage system and streets from siltation and dust.

9. Contractor shall be responsible for repairing any damage caused to roads, walks, utilities, site improvements [existing or proposed] both inside and outside the limit of work if damage due to work directly associated with this project.

10. Existing utilities shall be maintained in service as required by the use of site and adjacent properties. Relocate utility lines as required.

11. The drainage system shall be maintained and functional during construction and all catch basins, manholes & pipes shall be cleaned after the completion of the project.

12. The "site plan" is based on topographic survey showing all visually apparent features of the site on the date(s) that surface explorations and topography were completed.

features of the site on the date(s) that surface explorations and topography were completed.

13. No attempt was made, in preparing the plans, to ascertain the location of non-visually apparent subsurface utilities and structures, or conditions.

14. The limit of work shall be as designated and / or the edge of the proposed grading and / or the property lines, if not indicated.

15. Materials imported to the site shall be free of hazardous waste and noxious materials, stored as designated and shall not hamper the site activities.

16. Materials exported from the site shall become the property of the contractor and be disposed of in a legal manner.

17. All existing and new utility structures shall be adjusted to finished grades. Setting of rims temporarily at binder course may be required.

18. All water mains, water services and force mains shall have a five (5') foot minimum cover.

18.All water mains, water services and force mains shall have a tive (b) foot minimum cover.
19.All pavements shall be cut to a vertical face outside limits of prior disturbance and prior to installing adjacent new povements. All new povements shall be installed in a manner that is uniform, with watertight joints resulting.
20. The project shall be complete when the site is found to be litter/debris free, erosion resistant, all erosions barriers are removed and povements, cotch basins, manhales and pipes are clean.
21. The contractor shall clearly mark the limits of work in the field prior to the the start of construction.
22. Houling of earth to ar from the site shall be done between the hours of 9:00 a.m. and 4:00 p.m. an weekdays only.
23. See Notice of Intent and NPDES Plans for erosion details.

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WORCESTER BOX 97 ICETON, MA 0 (978) 464—5 (978) 464—5

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An Office of Action
Survey, & Engineering, Inc.

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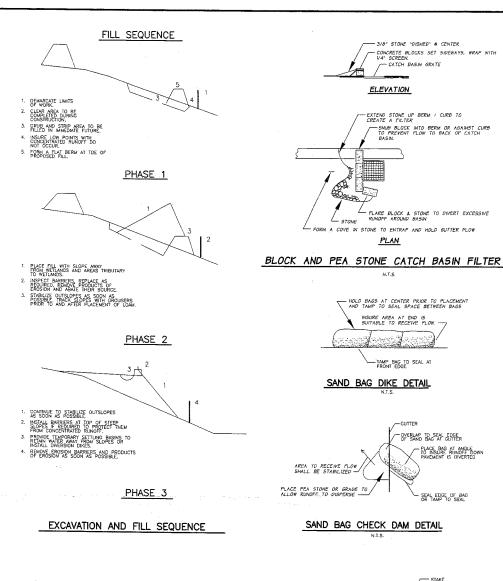
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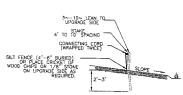
SITE 1 SHEET

"JEFFERSON MILL" SITE PLAN 1665 MAIN STREET DLDEN, MASSACHUSETTS

SITE DETAILS 2/2

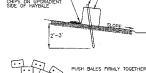
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NOTES:

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



HAY BALES MAY BE CRENELATED FOR ADDITIONAL BONDING, AS ON CURVES - DVFRIAP 3"

EROSION CONTROL BARRIER

EROSION CONTROL

GENERAL

A rapid well-organized redevelopment process leading to the stabilization of surfaces as soon as possible shall be the primary erosion control measure utilized during the construction of this site.

Considerable areas of the site consist of impervious surfaces, which drain to Asnebumskit Brook, either directly or via the storm drainage system. Care must be taken to keep these surfaces clean as small amounts of runoff could "wash" materials to the brook.

Other areas of the site consist of surfaces that are not presently erosion resistant and/or with disturbed due to construction activities occurring in confine spaces. Care must be taken to it disturbed areas from the Brook

The site shall be kept litter and debris free at all times and waste containers shall be available, empties when filled and not be used for the disposal of liquids and hazardous materials. RESPONSIBLE PARTIES

The Conservation Commission shall be notified of the persons charged with the control of the site and contact telephone numbers that will allow for communications on a seven-day a week basis.

Copies of the Order of Conditions and all plans referenced by the Orders shall be kept on site. EROSION BARRIERS

Erosion barrier locations have been shown on the plans in areas that were chosen as obvious places that will black routes of transport of materials to the brook. Other less obvious routes are probably present and include holes in floors and foundation walls and abundaned pipe openings. Care must be taken to black all possible routes and certain passages should be permanently sealed.

Erosion barriers shall be maintained and any products of erosion entrap by the barriers shall be removed and the source of the products of erosion aboted.

Periodic replacement of the barriers may be necessary and if construction is to continue during the winter months barriers shall be replaced prior to frazen ground or snow precluding their proper installation.

Care shall be taken to insure that barriers do not divert runoff and cause it to be concentrated at a point in which erosion or other damage could result.

The bottom of barriers shall be properly sealed by the placement of crushed stone, bricks and other erosion resistant materials. This is especially true for barriers placed on payements.

The Contractor shall be responsible for selecting barriers that best fit site conditions.

MAIN STREET (ROUTE 122A)

The surface of Main Street drains to catch basins that are tributary to the brook. Any materials dropped or tracked onto Main Street could be carried by runoff to the brook.

The surface of Moin Street shall be kept clean at all times and a broom, shovel and bucket shall be kept on site to aid in the removal of materials from Main Street.

CHECK DAMS & DIVERSION DIKES

Sand bag check dams and dikes are an effective means of decreasing the velocity and concentration of runoff. The installation of these facilities should be considered as being temporary measures and are to be installed on an "as needed basis" by the contractor.

A sand bag dike is shown across the garage entrance driveway to divert runoff from the driveway away from the driveway during construction in this area. Care must be taken to insure the diverted flow does not result in erosion. The dike shall only be in place when areas downhill are disturbed.

CATCH BASINS

During the construction process catch basins and other openings allowing runoff to enter the brook must be protected from the entrance of sitt-loden runoff. Erasion barriers, including crush stone/ concrete block barriers or manufactured devices, such as sit sacks, maybe utilized.

Any erosion device will result in a rise and possible diversion of runoff, which must be considered prior to the obstruction of the inlet.

It is most important that catch basins be kept clean during the periods in which tributary areas could result in high amounts of suspended solids being transported to the basins. If adequate storage is not available the solids could be carried out of the basin to the brook or alog downstream pipes.

Monitoring of the basins, as described under the stormwater management operating and maintenance procedures is recommended.

IMPERVIOUS SURFACES

Dirt and debris can be easily transported off impervious surfaces by runoff and care must be taken to keep these surfaces clean.

MAIN STREET PARKING LOT

LANDSCAPE SURFACES

The construction of the Main Street Parking Lot will require changes in the present land surface and result in disturbed soils being exposed for a length of time.

The fill sequence, shown on this plan, with the resulting maintaining of slopes that will entrap water to the greatest extent possible should be utilized, until the retaining wall is in place.

Runoff from Main Street into the parking lot area shall be precluded.

It is important that the construction of the parking lot be well organized and result in the placement of the pavement shortly after the construction is initiated to limit the potential erosion.

Core must be taken to protect the Stormceptor from silt laden waters, which will require its cleaning on a frequent basis. Protective measures should be placed around the inlet, but the prompt stabilization of the porking lot will serve to eliminate the cost of these protections and protect the brooker.

Topsoil has higher erosion potential than grovel and the placement of topsoil shall only be done in anticipation of planting.

Planting shall be scheduled for the optimum growing seasons, which are, generally, between 4/30~&6/15 or 8/15~&10/15.

In areas directly adjacent to the brook or those with high erosion potential, such as steep slopes should be mulched with weed free straw, hydroseeded or otherwise made more erosion resistant.

Runoff should be diverted away from landscape areas; until they are stabilized and care should be taken that runoff from roofs is carried by roof drains and does not fall onto earther surfaces. DUST

Care shall be taken to limit wind blown materials, including dust, being carried to the brook and Eagle Lake. A source of water for irrigating dry services should be available. ASNEBUMSKIT BROOK

The transport of materials to Asnebumskit Brook shall be considered as being a failure to meet the requirements of this plan and the Conservation Commission shall be notified and procedures be undertaken to immediately remove the materials deposited and to insure that other materials do not reach the brook. REMOVAL OF BARRIERS

Erosion Barriers shall be removed as soon as possible or oppropriate and the project will not be considered as being complete until all barriers are removed.

The presence of impervious and semi-impervious surfaces that could drain directly to Asnebumskit Brook requires that oil absorbent materials be store on site to be used in the case of spills or leakages The proposed parking garage and/or a construction trailer/office are the logical storage areas. At a 25 pound bag of loose [oil-dri] shall be kept on site along with sufficient sock or pillow shaped continued absorbents to encomposs a spill for a length 10 feets, suc

Liquid wastes, such as paints, solvents and lubricants shall not be placed in solid wastes containers. They shall be placed in sealed containers and transported off site for proper disposal.

STORMWATER MANAGEMENT OPERATION AND MAINTENANCE

GENERAL

Redevelopment of the site required that portions of the existing storm drainage system be retained and utilized. During the reconstruction process rehabilitation of visually apparent and other deficiencies were carried out. It is recommended that existing drain outfalls be observed during periods in which the flow of Asnebumskit Brook is low to determine if the discharges contain only stormwater.

If the discharges are observed to contain materials other than clarified starmwater, the Holden Board of Health and Conservation Commission shall be notified and investigations shall be made by qualified individuals to determine the source and means of abating the entronce of the suspected materials.

Of primary importance at this site is the removal of materials from surfaces prior to their being carried to the starmwater collection system. This will reduce the cost of maintaining the system and insure that it will function os deigned.

Impervious surfaces shall be swept when occumulations of sand used for ice control accumulate. Of special concern is the driveway serving the condominiums behind Jefferson Mills. Any excessive sanding of this surface will result in the transport of materials and require the Stormceptor to be cleaned more attent than accord.

oss accumulations of solids should be removed by use of a broom and shovel. These materials con

When excessive sand accumulates the driveway should be swept by a commercial sweeping firm. The use of vacuum sweepers is recommended.

Maintenance of other impervious surfaces is also of importance and the removal of gross accumulations and periodic sweeping of surfaces is recommended.

ond other materials dripping from cars in the garage are collected by the garage drains and to an oil and sand separator located outside the building. Removal of materials from the garage will decrease the need to clean the oil and sand separator.

Landscape surfaces shall be maintained litter free and gross clippings shall be picked up.

All landscope surfaces shall be erosion resistant and if a portion of a gorden bed is found to be subject to erosion, the surface shall be flattened by the use of stone ribs or the surface should be hardened by placing crushed stone on the surface.

The existing catch basins along the entrance driveway were retained due to expected construction constraints. The depth of the catch basins below the inverts varies and the actual depth should be recorded upon first cleaning. The basins shall be cleaned whenever the depth of sediment exceeds one foot in depth and locking measurements of the actual depth of sumps they should be cleaned whenever sediment extends to two feet below the water level.

Measurements shall be by dipstick and the dipstick surface shall be observed for hydrocarbons. Any detection of hydrocarbons shall cause their removal and their source shall be determined and abated.

It cannot be over emphasized that the removal of sand and other materials from the surface of the driveway will decrease the need for catch basin cleaning.

Two catch basins are located after the Stormceptor and they should be observed and maintain described above. These catch basins should not have excessive sediments and the presence of sediment may be an indication that the Stormceptor is not functioning as required.

A cotch basin is located in the grass patio near the Eagle Lake dam. This catch basin is made polyethylene and should only be cleaned by hand. The basin has a four foot deep sump and shot be cleaned when one foot of sediment accumulates or the water depth is three feet, or less.

There are two Stormceptors installed at the site: One is located near the entrance to the garage and the other is at the end of the parking lat off Main Street.

Stormceptors are manufactured devices set in precast concrete catch basins to enhance the removal of solids and floating materials such as hydrocarbons [oils, etc.]. As their purpose is to accumulate solids they are required to be cleaned periodically and at a minimum on a yearly basis.

Cleaning shall only be performed by a licensed firm familiar with Stormcenter technology

depth of sediment collected in the Stormceptors shall be observed on a quarterly basis, unless experience dictates more frequent monitoring is warranted. Observations are made be lowering a dipatick through the grate and measuring the depth of water. When there is no sediment the depth will be five feet. The Stormceptor should be cleaned when the depth is four feet or less, or when there is over a foot of sediment retained.

The Stormceptor near the garage discharge via the catch basins located between buildings 5 and 3 and the one at the Main Street Parking Lot discharges to a recharge system at the bottom of the wall. The surface over the recharge system should not be moist and if the surface appears moist the design engineer should be contacted so the remedial measures can be planned.

Drainage from the garage flows to an oil and sand separator located between buildings 5 and 3. The separator has three cast iron manholes, to grade, located over each of the three separator compartments. The separator discharges to the Town of Holden sewer system.

separator shall be cleaned at the same time as the Stormceptors and should be observed at the

The depth of water in the separator is four feel—four inches when empty and the separator shall be cleaned when the depth of water in the southerly compartment [away from the entrance drive] is three feet, or less, when measured with a dipstick.

The cost of cleaning the separator will be decreased if the garage is properly maintained, including sweeping the floor to remove accumulations of sand and using oil absorbents [Speedi-dri] to remove oil and other hydrocarbans that could drip from vehicles. The floor should be inspected for leakages from vehicles and the owner's notified so that leakages can be choted.

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EROSION & SEDIMENTATION

"JEFFERSON MILL" SITE PLAN 1665 MAIN STREET LDEN, MASSACHUSETTS 1665 DEN,

FROSION CONTROL

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