GRASS AND SLOPE COVER SPECIFICATIONS

- . All disturbed areas, including slopes and the detention basin, shall be graded and stabilized by planting or other method as shown or specified on the plans.
- 2. A minimum of 6" of loam shall be applied to all surfaces to be seeded. Loam shall be uniformly applied, shaped and smoothed.
- 3. Loam acidity shall be checked and adjusted to a pH of 6.5, apply lime at a minimum rate of 50 lbs per 1,000 square feet, if necessary. (If permitted by the Orders of Conditions only).
- 4. Organic—slow release fertilizer of a type 5-2-2 applied at a rate of 50 lbs per 500 square feet. (If permitted by the Orders of Conditions only). 5. Rake a seed bed using a york rake or hand raking to a minimum depth of 3" thoroughly incorporating
- lime and fertilizer. 6. Seeding may be performed by hand, mechanical or tractor mounted spreader. Hydroseeding is
- 7. Seeding before April 15 or after October 15, shall be reapplied between these dates if a minimum germination of 90%, determined by surface area coverage, has not occurred or if the surface area has eroded or become un-stabilized.

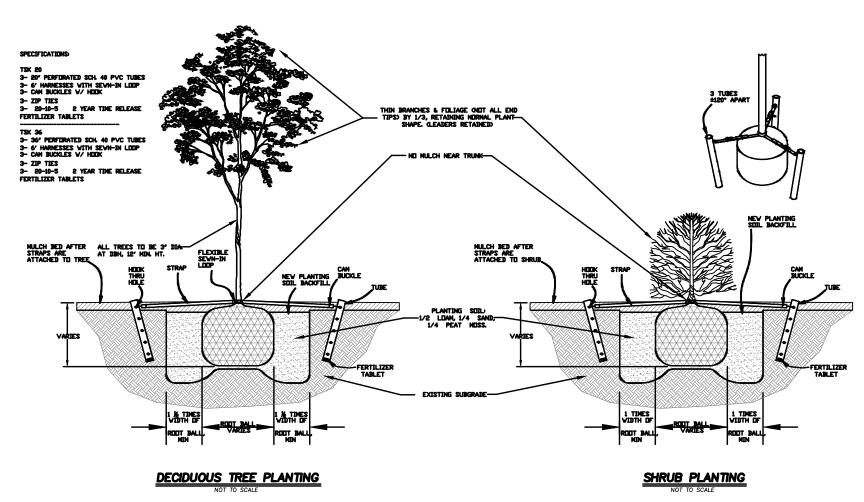
8. SEEDING: A. HAND SEEDING:

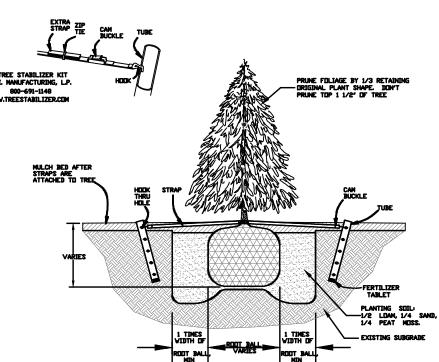
- Seed shall be applied by hand or broadcast spreader to provide a uniform distribution of seed. 2. Seed shall be lightly raked into a depth of 1/2"-1", with all raking to be perpendicular to the
- 3. Seed is to be rolled with a water ballast roller to insure contact of seed with soil, do not compact soil.
- 4. Area shall be mulched using seed-free straw to adequately cover the area to a depth of 1/2"-1", insuring a uniform cover of 75% of the surface area. 5. Mulch shall be secured by means of secured landscape fabric, erosion control netting (3/4" - 1"
- mesh), or other biodegradable material which will insure adequate cover until the surface has grown to 90% germination, or according to the manufacturer's instructions.

B. HYDROSEEDING:

- Hydroseeding is encouraged for all areas, especially for large areas and steep slopes.
- Hydroseeding shall be performed in a single uniform layer. 3. A track equipped machine shall travel perpendicular to any slope to provide shall compacted surface depressions for hydroseeding to catch. Such tracks shall be a minimum of three (3') feet on center for the total length of the slope.
- 4. Application rates on slopes greater than 3:1 (horizontal to vertical) or greater shall have a minimum seeding rate of 4lbs/1000sf.
- 5. A latex or fiber tackifier shall be used on all areas at the rate recommended by the manufacturer and on all slopes identified above (No. 4), a minimum rate of 50lbs of tackifier per 500gals of water shall be used.
- 6. Fertilizer and lime may be incorporated into the hydroseed mixture in the quantities and type identified previously. (If permitted by the Orders of Conditions only).

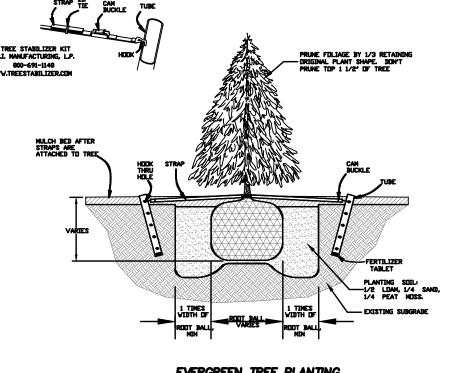
- A. All seed shall be of the previous year's crop and shall have a quantified mixture analysis attached. No more than 10% of total mixture shall consist of weed seed species.
- B. SEED MIXTURE TYPE "A": Seed mixtures for lawn areas shall consist of a standard lawn mix containing a minimum of 80% perennial species, and shall conform to the following standards:
 - Minimums (by total weight of mix): 40% Kentucky Bluegrass
 - 20% Chewings Fescue
 - 20% Perennial Ryegrass 20% Annual Rye or other annual species*
 - * No more than 20% of the total mix, by weight, shall consist of annual rye or other annual species. Apply at a rate of 4 lbs per 1,000 square feet, or 170 lbs. per acre.
- SOD: See Specifications
- SEED MIXTURE TYPE "C": Seed mixtures for sloped areas shall consist of a standard Conservation Mix conforming to the recommendations of the U.S. Natural Resources Services Guidelines (formerly the Soil Conservation Service, SCS) and shall conform to the following standards:
- Minimums (by total weight of mix):
- 20% Annual Rye 15% Red Top Fescue
- 10% White Clover . 5% Ladino Clover
- No more than 40% of the total mix, by weight, shall consist of annual rye or other annual species. Apply at a rate of 4 lbs per 1,000 square feet.
- E. SEED MIXTURE TYPE "D": Basin Mix BASIN MIX SHALL BE AS MANUFACTURED BY NEW ENGLAND ENVIRONMENTAL, AMHERST, MA, WET MIX.

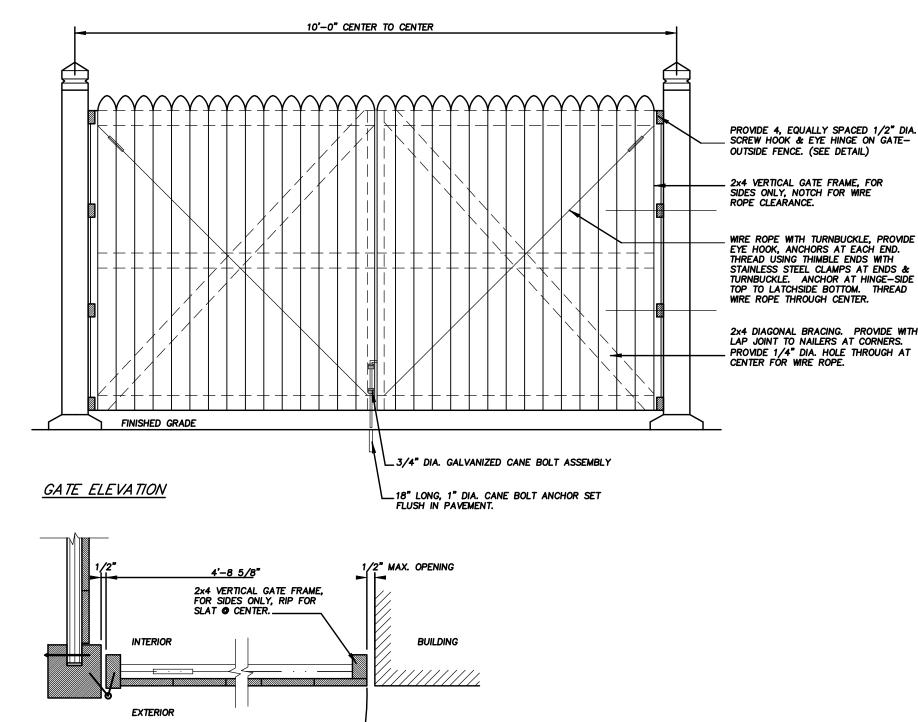




EVERGREEN TREE PLANTING

GATE PLAN/SECTION





GATES TO OPEN OUT/

PLANT SCHEDULE

TREES ACE MAR

PIC SPR

QUE RUB

AZA WE2

CAR BLU

COT GOL

FOT BLU

HYD END

HYD OAK

ILE SP2

ILE BL4

ILE BL2

POT MCK

RHO CAR

RHO CU5

SPI GO4

SYR ANG

SYR PRE

TAX CAN

VIB AUR

VIB FRA

GROUND COVERS

2x4 VERTICAL GATE FRAME, FOR SIDES ONLY, NOTCH FOR WIRE ROPE CLEARANCE.

QTY COMMON NAME / BOTANICAL NAME Freeman Maple / Acer freemanii `Morton` TM

I Hoopsi Blue Spruce / Picea pungens glauca `Hoopsii`

I Smoke Tree / Cotinus coggygria `Golden Spirit`

9 Winterberry / Ilex verticillata `Sparkleberry`

20 Nellie Stevens Holly / Ilex x `Nellie R Stevens`

6 Mountain Laurel / Kalmia latifolia `Keepsake`

Hedge & Specimen

6 Blue Mist Fotherqilla / Fotherqilla gardenii `Blue Mist`

12 Endless Summer / Hydrangea macrophylla `Bailmer` TM

6 Blue Princess Holly / Ilex x meserveae `Blue Princess` TM

2 Blue Princess Holly / Ilex x meserveae `Blue Princess` TM

5 Carolina Rhododendron / Rhododendron carolinianum

5 Donald Wyman Lilac / Syringa x prestoniae `Donald Wyman`

6 Goldflame Spirea / Spiraea x bumalda `Goldflame`

3 Korean Spice Viburnum / Viburnum carlesii `Aurora`

5 Fragrant Snowball Viburnum / Viburnum x carlcephalum

5 Common Lilac / Syringa vulgaris `Angel White`

5 American Yew / Taxus canadensis

QTY COMMON NAME / BOTANICAL NAME

21 Blue Fescue / Festuca glauca `Elijah Blue`

144 Daylıly / Hemerocallıs x `Dark Eyed Magıc` TM

56 Boulder Blue Fescue / Festuca glauca `Boulder Blue`

31 Hidcote Superior Lavender / Lavandula angustifolia `Hidcote Superior`

3`Ht \$ Spr.

MEDIUM GROUND COVERS QTY COMMON NAME / BOTANICAL NAME

Western Lights Exbury Azalea / Azalea Exbury Hybrid `Western Lights`

4 Blue Mist Shrub / Caryopteris x clandonensis `Longwood Blue`

5 Snow Queen Oakleaf Hydrangea / Hydrangea quercifolia `Snow Queen`

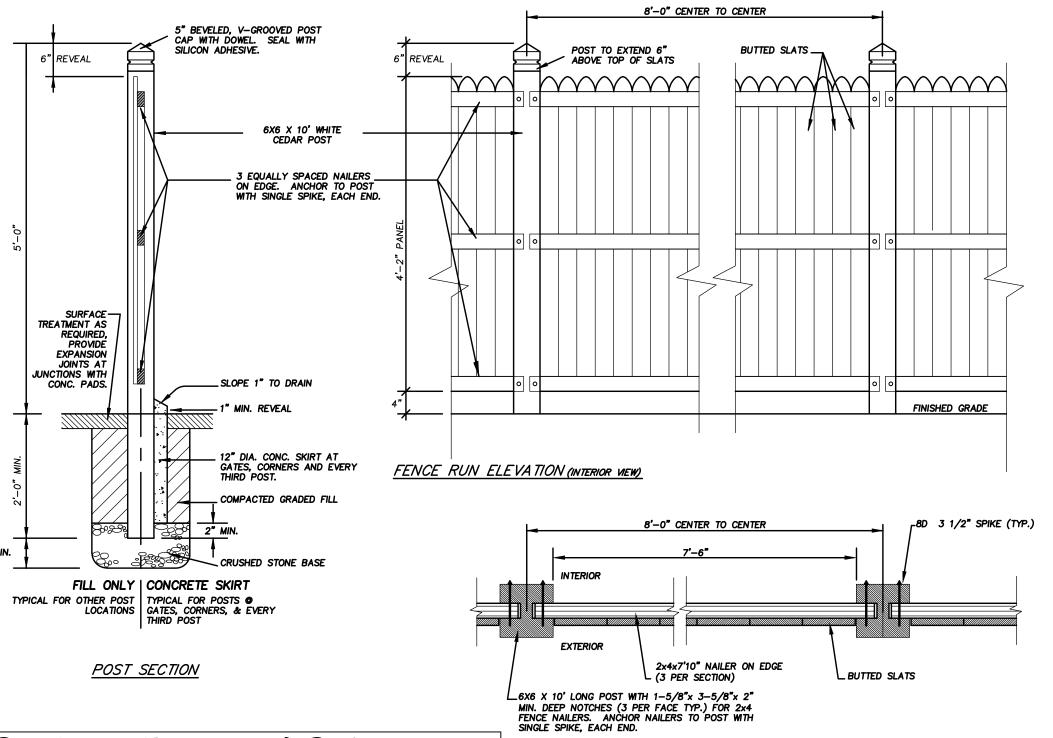
8 McKay`s White Bush Cinquefoil / Potentilla fruticosa `McKay`s White`

| 12 | Catawba Rhododendron / Rhododendron catawbiense `Cunningham White` | B & B

4 Karpick Red Maple / Acer rubrum `Karpick`

QTY COMMON NAME / BOTANICAL NAME
Western Lights Evigur, April 17 (A)

6 Red Oak / Quercus rubra

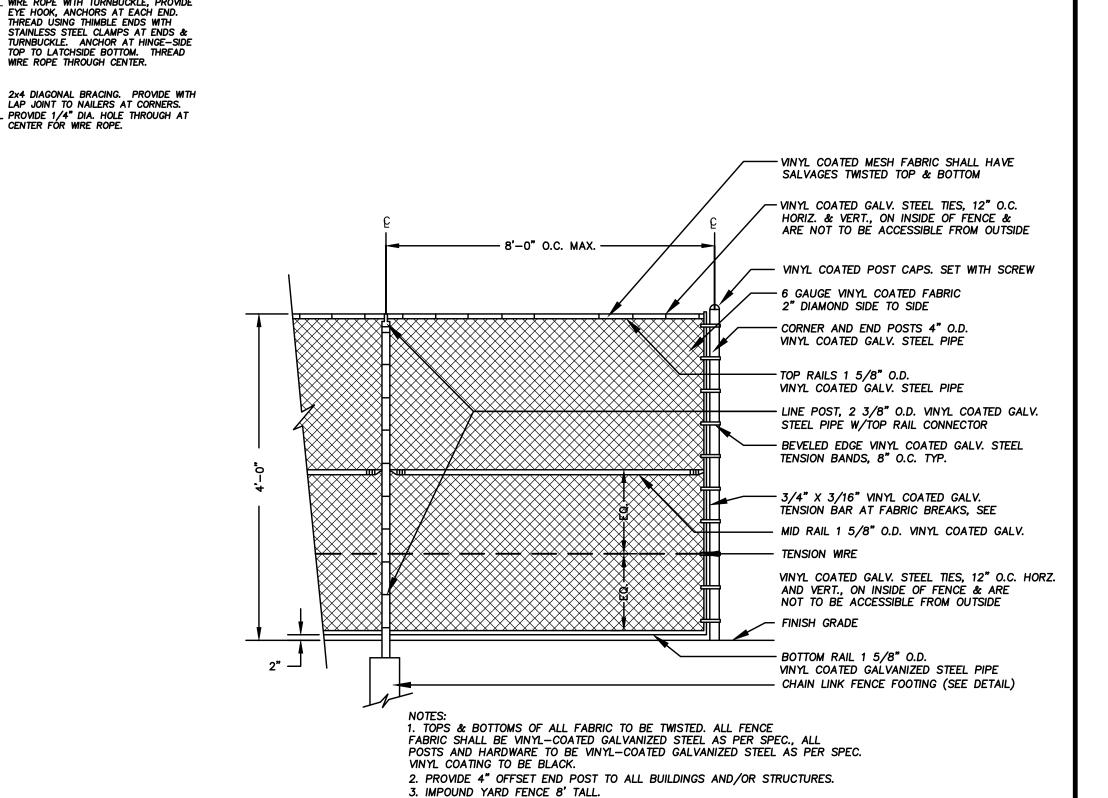


Sudbury Board of Selectmen

<i>y</i>
APPROVAL UNDER SITE PLAN REVIEW REQUIRED APPROVED APPROVED WITH CONDITIONS
DATE OF APPROVAL:
DATE OF ENDORSEMENT:
TOWN ENGINEER/DPW DIRECTOR:
PLANNING DIRECTOR:
BUILDING INSPECTOR:

FENCE RUN PLAN/SECTION

FENCING DETAILS



CHAIN LINK FENCE

FIELD4

12-15` H Street/Shade Tree

Street/Shade Tree

12" o.c.

12" o.c.

SPACING

12" o.c.

12" o.c.

8`-10`Ht Specimen

SIZE

CAL

1.5"Cal

3"Cal

B & B

В≰В

B & B

5 gal

В≰В

5 gal

В≰В

В≉В

5 gal

5 gal

В≉В

5 gal

В≉В

36" ht. \$ spr.

85 main street hopkinton, massachusetts



Civil Engineering, Surveying .56 GREAT ROAD, SUITE 4 876 SALISBURY STREET LITTLETON, MA 01460 978.486.0334 Ph. 978.486.0447 Fax HOLDEN, MA 01520 508.829.0333

places@placesassociates.com

REVISED: 1-22-14 GENERAL REVISION 1-31-14 DRAINAGE SYS. MOD. 2-10-14 DRAINAGE SYS. MOD.

> PERMIT SET January 3, 2014

SUDBURY POLICE **HEADQUARTERS**

SUDBURY, MASSACHUSETTS

LANDSCAPE **DETAILS**

AS NOTED scale date JANUARY 3, 2014 drawn by job no 13-7201 sheet

DRAINAGE SYSTEM OPERATIONS & MAINTENANCE PLAN

STORM WATER COLLECTION SYSTEM:

THE STORMWATER COLLECTION SYSTEM SERVING THIS SITE IS INTENDED TO BOTH COLLECT STORM WATER RUNOFF AND TO PROVIDE PARTIAL TREATMENT OF THE STORMWATER PRIOR TO ITS COLLECTION INTO THE ON-SITE DETENTION BASINS AND RECHARGE INTO THE GROUNDWATER. THIS SYSTEM COLLECTS RUNOFF GENERATED FROM THE SITE THROUGH THE USE OF DRAINAGE SWALES AND FOREBAYS. WHEN THESE TWO BASIC CONTROL MECHANISMS ARE FUNCTIONING PROPERLY THEY PROVIDE FOR A REDUCTION OF CONTAMINANTS AND DEBRIS ENTERING THE STORMWATER COLLECTION AND RECHARGE SYSTEMS, AND THEREFORE DOWNSTREAM RECEIVING WATERS/WETLANDS.

THIS SITE IS SERVED BY INFILTRATION SYSTEMS WHICH COLLECT THE GENERATED RUNOFF AND RECHARGE IT TO THE GROUND, THUS PROVIDING RECHARGE SIMILAR TO THAT OF THE PRE-DEVELOPMENT CONDITION AND FILTERING THE RUNOFF AS IT TRAVELS THROUGH THE EXISTING SOILS TO THE GROUNDWATER TABLE.

BOTH OF THE ABOVE-DESCRIBED SYSTEMS RELY UPON PROPER MONITORING, OPERATIONS AND MAINTENANCE TO FUNCTION AS DESIGNED AND INTENDED. A PROGRAM OF MONITORING, OPERATIONS AND MAINTENANCE MUST BE ONGOING THROUGHOUT THE LIFE AND USE OF THE SITE, AND IS THE OWNER'S RESPONSIBILITY SOLELY. THESE ACTIVITIES, AS DESCRIBED BELOW. ARE TO BE INITIATED AFTER COMPLETION OF THE PROJECT AND ARE NOT RELATED TO THE CONSTRUCTION OF THE SITE, EXCEPT AS SPECIFICALLY PROVIDED. THIS PLAN IS SPECIFICALLY FOR SITE-RELATED ACTIVITIES, NOT ACTIVITIES WHICH ARE INTERIOR TO BUILDINGS, THOUGH THERE ARE NECESSARY IMPLICATIONS AND CORRELATION'S BETWEEN THE TWO.

MONITORING:

THE DRAINAGE SYSTEMS ARE REQUIRED TO BE MONITORED BY THE POLICE CHIEF, WHO SHALL DIRECT AN INDIVIDUAL TO ACT AS THE SYSTEM'S MANAGER. THE NAME, ADDRESS AND DAY AND NIGHT (OR EMERGENCY) TELEPHONE NUMBER OF THIS PERSON OR ENTITY SHALL BE PROVIDED TO THE SUDBURY BUILDING INSPECTOR PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE OF CONSTRUCTION. THIS INDIVIDUAL SHALL BE REQUIRED TO KEEP A LOG OF ALL REQUIRED INSPECTIONS. OBSERVATIONS AND MAINTENANCE ACTIVITIES DRAINAGE SYSTEM COMPONENTS SHALL BE REFERRED TO BY SPECIFIC LOCATION OR THE DESIGN PLAN DESIGNATION, (E.G. CTB # 10) TO AVOID CONFUSION OR MISIDENTIFICATION THE LOG SHALL BE MADE AVAILABLE TO ANY MUNICIPAL OR STATE AGENCY HAVING JURISDICTION WITHIN TEN (10) DAYS OF A WRITTEN REQUEST BY THAT AGENCY.

MONITORING FOR THIS SITE SHALL CONSIST OF THE FOLLOWING:

- ALL CATCHBASINS SHALL BE INSPECTED TO ENSURE THEY ARE WATER-TIGHT (HOLDING WATER), HAVE ADEQUATE SUMP CAPACITY, ALL OIL/GAS TRAPS ARE IN-PLACE, ALL GRATES AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE, AND ARE DRAINING FREELY. THIS MONITORING SHALL OCCUR AT A MINIMUM OF FOUR (4) MONTH
- INTERVALS (QUARTERLY). ALL DRAINAGE MANHOLÉS SHALL BE INSPECTED TO ENSURE THAT THEY ARE WATER— TIGHT, ALL LIDS AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE, ARE DRAINING FREELY AND ARE NOT PONDING WATER. THIS MONITORING SHALL OCCUR A MINIMUM OF
- OTHER DRAINAGE SYSTEMS SHALL BE INSPECTED TO ENSURE THAT NO EROSION IS OCCURRING AT OUTLETS, ALL OUTLETS ARE FREE-FLOWING AND NO DAMAGE HAS OCCURRED AS PART OF SITE MAINTENANCE OR ACTIVITIES.

OPERATIONS:

BY THE MANUFACTURER.

- GOOD HOUSE KEEPING AND MATERIAL MANAGEMENT REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. A POLLUTION PREVENTION PLAN SHALL BE DEVELOPED WHICH SHALL INCLUDE THE FOLLOWING AT A MINIMUM:
- A. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER
- B. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL
- MANUFACTURER'S LABEL. C. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER, UNLESS RECOMMENDED
- D. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF A CONTAINER.
- THE SYSTEM'S MANAGER SHALL INSPECT THE SITE DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE, DURING ALL CONSTRUCTION PHASES ORIGINAL MATERIALS LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE KEPT;
- THEY RETAIN IMPORTANT INFORMATION. G. PETROLEUM PRODUCTS: 1) ALL ONSITE VEHICLES AND PARKING AREAS SHALL BE REGULARLY MONITORED
- FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT ?) PETROLEUM PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
- H. FERTILIZERS:) FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER. 2) THE CONTENTS OF ANY UNUSED FERTILIZER SHALL BE TRANSFERRED TO A
- CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE. 1) ALL PAINTS AND SOLVENTS SHALL BE STORED IN ORIGINAL MANUFACTURER'S CONTAINERS IN A COVERED LOCATION.
- 2) THE USE OF PAINTS AND SOLVENTS SHALL, WHENEVER POSSIBLE, BE LIMITED TO ŚERVICE OR STORAGE BAYS AND NOT IN PARKING OR ACCESS WAYS THAT ARE TRIBUTARY TO THE DRAINAGE SYSTEM. SPILL CONTROL PRACTICES:
- A. MANUFACTURER'S RECOMMENDED METHODS SHALL BE CLEARLY POSTED FOR SPILL CLEANUP AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF CLEANUP INFORMATION AND SUPPLIES. B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT ON-SITE
- IN A DESIGNATED MATERIAL STORAGE AREA. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, ABSORBENT MATERIALS, SAND, SAWDUST AND PLASTIC & METAL TRASH CONTAINERS SPECIFICALLY KEPT AND LABELED FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED-UP IMMEDIATELY AFTER DISCOVERY.
- D. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY-LAW. E. THE SPILL PREVENTION PLAN WILL INCLUDE PROVISIONS TO ADAPT THE PLAN TO ENSURE THAT SPILLS WILL NOT REOCCUR, AND HOW TO CLEANUP THE SPILL IF THERE IS ANOTHER ONE.
- SITE OPERATIONS AND DAILY USE SHALL CONSIDER THE ULTIMATE DISPOSITION OF STORMWATER AND OTHER SITE—GENERATED FORMS OF RUNOFF. THE WASHING OF VEHICLES SHALL BE LIMITED AREAS WITHIN THE BUILDING, AS THEY ARE SERVED BY THE FLOOR DRAIN SYSTEM. WASH WATER WITH ITS COMBINATION OF SOLVENTS, DETERGENTS AND OIL/GREASES SHOULD NOT BE ALLOWED TO ENTER ANY PART OF THE ON-SITE DRAINAGE SYSTEM.
- SNOW PLOWING SNOW PLOWING OPERATIONS SHALL STOCKPILE SNOW, ICE AND ACCUMULATED MATERIALS IN AREAS WHERE SNOW MELT WILL FLOW INTO THE ON-SITE DRAINAGE SYSTEMS, INCLUDING DRAINAGE BASINS. NO PLOWING OR STORAGE OF SNOW INTO WETLANDS OR AREAS DRAINING TO WETLAND.
- SALT USE SITE-WIDE SHALL BE APPLIED TO THE MINIMUM EXTENT POSSIBLE TO MAINTAIN SAFE CONDITIONS, AND ONLY IF NOT SPECIFICALLY EXCLUDED BY ANY SPECIAL CONDITIONS.

Sudbury Board of Selectmen

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APPROVAL UNDER SITE PLAN REVIEW REQUIRED APPROVED APPROVED WITH CONDITIONS
DATE OF APPROVAL:
DATE OF ENDORSEMENT:
TOWN ENGINEER/DPW DIRECTOR:
PLANNING DIRECTOR:
BUILDING INSPECTOR:

MAINTENANCE:

- 1. PARKING AREAS. ROAD AND ACCESS WAYS AND GUTTERS SHALL BE SWEPT CLEAN OF DEBRIS AND ACCUMULATION ON A REGULAR BASIS. AT A MINIMUM, A SPRING AND FALL CLEANING SCHEDULE IS RECOMMENDED.
- 2. ALL CATCHBASINS SHALL HAVE THE SUMPS CLEANED AT ANY TIME OF THE YEAR WHEN 2' OR LESS SPACE EXISTS BELOW THE OUTLET INVERT, OR A MINIMUM OF ONCE PER YEAR, REGARDLESS OF SUMP ACCUMULATION. ALL DEBRIS FROM THE CLEANING SHALL BE DISPOSED OF OFF-SITE AND IN A MANNER AS PROSCRIBED BY LAW. 3. ALL HYDROCARBON TRAPS SHALL BE CHECKED FOR PHYSICAL INTEGRITY AND SEALED
- IMMEDIATELY AFTER EACH CATCHBASIN CLEANING. 4. OIL ABSORBING "PILLOWS" OR OTHER MEANS SHALL BE USED TO REMOVE ACCUMULATIONS OF HYDROCARBONS (OIL/GREASE) IN CATCHBASINS THAT ARE REGULARLY OBSERVED TO CONTAIN HYDROCARBONS, WHICH DO NOT EVAPORATE
- BETWEEN INSPECTIONS. 5. ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY. CATCHBASIN GRATES OR MANHOLE LIDS SHALL BE REPLACED WITH SIMILAR WEIGHT AND LOADING CHARACTERISTIC REPLACEMENT
- 6. ALL EROSION SHALL BE REPAIRED. THE REPLACEMENT OF ANY PIPE OR DRAINAGE STRUCTURE SHALL MATCH THE ORIGINAL DESIGN SPECIFICATIONS.

NPDES GENERAL NOTES:

1. THIS PLAN IS INTENDED TO BE UTILIZED AS PART OF THE INFORMATION REQUIRED TOWARD MEETING THE NATIONAL STORM WATER POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) OF SECTION 402 OF THE FEDERAL CLEAN WATER ACT. THE CONSTRUCTION OF DRIVEWAYS, PARKING AREAS, BUILDINGS AND APPURTENANT STRUCTURES WILL RESULT IN MORE THAN 1 ACRE OF TOTAL DISTURBED AREA. REQUIRING THE SUBMITTAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) 2. IT IS ANTICIPATED THAT THE SITE AS DESIGNED WILL MEET THE CRITERIA FOR A NPDES GENERAL PERMIT. THE SUBMISSION OF THE NPDES NOTICE OF INTENT (NPDES NOI), THIS PLAN AND SUPPORTING DOCUMENTATION MUST BE POSTMARKED A MINIMUM OF

TWO (2) WEEKS PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE OR CONSTRUCTION.

NPDES RECORD REQUIREMENTS:

1. A COPY OF THE NPDES SUBMITTAL AND THIS PLAN MUST BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE MADE AVAILABLE TO ALL INTERESTED

WHICH SHALL NOT COMMENCE UNTIL AN ORDER OF CONDITIONS HAS BEEN ISSUED.

2. RECORDS MUST BE MAINTAINED BY THE PERMITEE FOR A PERIOD OF THREE (3) YEARS FROM THE DATE OF STABILIZATION OF THE SITE. STABILIZATION OCCURS WHEN THE SITE HAS OVER 70% VEGETATIVE GROWTH AND/OR MECHANICAL STABILIZATION THROUGHOUT FOR ONE COMPLETE GROWING SEASON.

NPDES INSPECTION REQUIREMENTS:

1. ALL INSPECTIONS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL. WHO SHALL PRODUCE WRITTEN QUANTITATIVE AND QUALITATIVE REPORTS ON THE METHODS, SUITABILITY OF STRUCTURES AND THE GENERAL CONSTRUCTION.

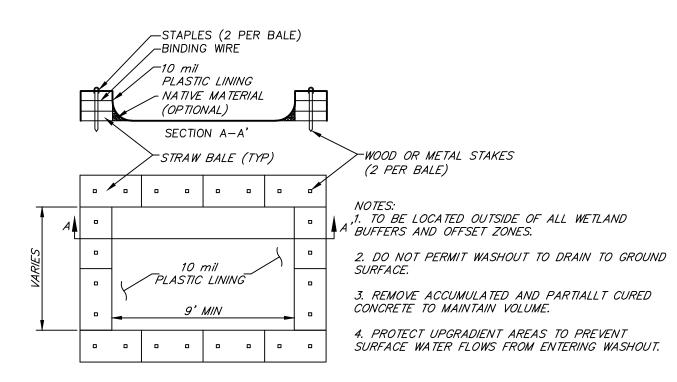
2. INSPECTIONS ARE REQUIRED DURING SITE ALTERATIONS A MINIMUM OF ONCE EVERY SEVEN (7) DAYS WHILE SURFACES ARE UNSTABILIZED.

3. INSPECTIONS ARE REQUIRED WITHIN 24 HOURS OF STORMS WHICH PRODUCE 0.5" OF PRECIPITATION OR GREATER.

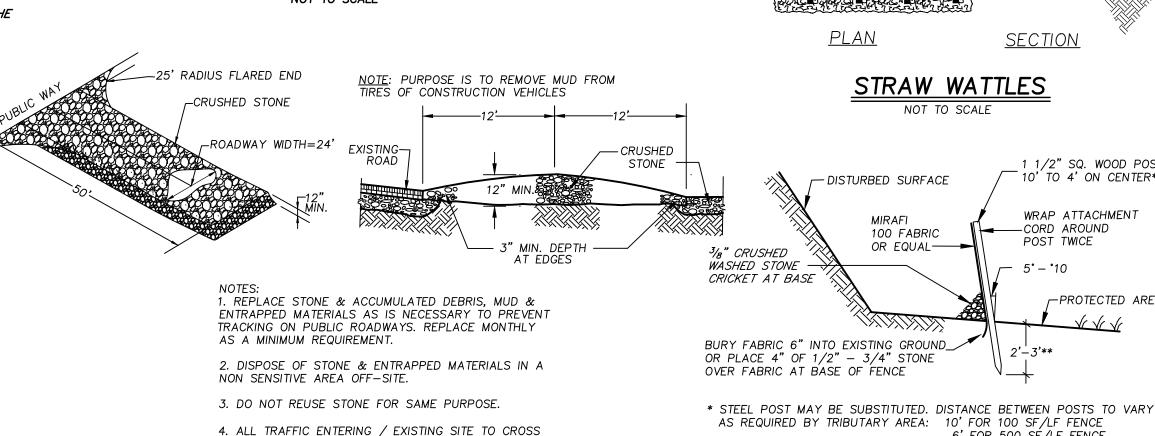
4. WHEN THE SITE IS FULLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT MONTHLY INTERVALS FOR A PERIOD OF 3 YEARS.

LOCAL PERMITTING:

- 1. THIS PLAN IS PART OF A SET OF DOCUMENTS WHICH INCLUDE LOCAL PERMITS, LOCAL REVIEW AND MODIFICATIONS TO PROPOSED SWPPP'S CREATED BY THE ABOVE LISTED CRITERIA.
- 2. CONTRACTORS SHALL ACCOMMODATE LOCAL REVIEW TIMELINES AS PART OF ALL SUBMISSIONS FOR SWPPP'S.



ABOVE GRADE CONCRETE WASHOUT



TEMPORARY CONSTRUCTION ENTRANCE

TEMPORARY CONSTRUCTION ENTRANCE

SILT FENCE DETAIL

** DEPTH TO VARY WITH TRIBUTARY AREA: 2' FOR 100 SF ETC.

IF POST IS TO BE SET IN PEAT OR UNSTABLE SOILS, THEN 3' OR DEPTH

NECESSARY TO PROVIDE A STABLE POST FOR LOADED FENCE CONDITIONS

EROSION & SEDIMENTATION CONTROL PLAN

GENERAL:

1. THIS PLAN IS PART OF A SET OF DOCUMENTS THAT ARE TO BE VIEWED AND REVIEWED IN THEIR ENTIRETY, SUCH DOCUMENTS INCLUDE THE CONSTRUCTION SPECIFICATIONS, CONSTRUCTION PLANS AND ANY PERMITS ISSUED BY THE TOWN OF SUDBURY, AGENTS OF THE TOWN OF SUDBURY OR OTHER REGULATORY AGENCIES.

2. THIS IS A PERFORMANCE SPECIFICATION WHICH THE CONTRACTOR SHALL APPLY APPROPRIATE MEANS AND METHODS TO ACHIEVE.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED. THIS PLAN SHALL BE SHALL BE ADAPTED TO FIT THE CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS, AND ANY ORDERS OF CONDITIONS ISSUED BY THE BOARD OF HEALTH, CONSERVATION COMMISSION AND ANY SPECIAL CONDITIONS ISSUED BY ANY OTHER REGULATORY AGENCY OF THE TOWN OF SUDBURY.

2. THE MOST IMPORTANT ASPECTS OF CONTROLLING EROSION AND SEDIMENTATION ARE LIMITING THE EXTENT OF DISTURBANCE AND STABILIZING SURFACES AS SOON AS POSSIBLE. OF SECONDARY IMPORTANCE IN EROSION CONTROL IS THE LIMITING THE SIZE AND LENGTH OF THE TRIBUTARY DRAINAGE AREA WITHIN THE WORK SITE AND DRAINAGE STRUCTURES. THESE FUNDAMENTAL PRINCIPLES SHALL BE THE KEY FACTOR IN THE CONTRACTOR'S CONTROL OF EROSION ON THE SITE.

3. THE EXISTING SOIL CONDITIONS PROVIDE THE POTENTIAL OF RUNOFF TO OFF-SITE AREAS WITH EROSION POTENTIAL.

4. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DIVERSION SWALES AND SETTLING BASINS IN AREAS OF FUTURE CONSTRUCTION. CONSTRUCTION IS PERMITTED BEYOND THE LIMIT OF DISTURBANCE ONLY WHEN ADDITIONAL DRAINAGE MEASURES OR STABILIZATION MEASURES ARE NEEDED, AND SHALL BE SUBJECT TO APPROVAL BY THE TOWN OF Sudbury. Prior to work outside of designated limit of disturbance line. The LIMIT OF DISTURBANCE LINE SHALL BE THE EROSION CONTROL BARRIER.

5. ALL DISTURBED SURFACES SHALL BE STABILIZED A MINIMUM OF 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE HAS CEASED OR IS TEMPORARILY HALTED UNLESS ADDITIONAL CONSTRUCTION IS INTENDED TO BE INITIATED WITHIN 21 DAYS.

6. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL EROSION CONTROL DEVICES ON-SITE. ALL EROSION CONTROL DEVICES SHALL BE REGULARLY INSPECTED. ANY SEDIMENTS REMOVED FROM THE CONTROL DEVICES SHALL BE DISPOSED OF OUTSIDE OF THE 100' WETLANDS BUFFER ZONE.

7. AT NO TIME SHALL SILT-LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (WETLANDS, OFF-SITE AREAS AND DRAINAGE SYSTEMS), ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

PRELIMINARY SITE WORK:

1. MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWNSLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS OR SUBJECT TO EROSIVE CONDITIONS SUCH AS INTENSE RAIN, WIND OR OTHER EXPOSURE

2. STOCKPILES SHALL BE LOCATED AS SPECIFIED HEREIN AND AS REQUIRED. SHOULD ADDITIONAL AREAS BE NEEDED THEY SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE, IN AREAS OF MINIMAL IMPACT. IF A STOCKPILE IS LOCATED ON A SLOPE, THE RUNOFF SHALL BE DIRECTED AWAY FROM THE PILE.

3. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL HAYBALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.

4. IF THE SITE CONSTRUCTION OCCURS AT ANY TIME OTHER THAN THE MAY -NOVEMBER CONSTRUCTION SEASON, THE SITE DRAINAGE SYSTEM SHALL BE INSTALLED, MAINTAINING HYDRAULIC CAPACITY, PRIOR TO ANY ROUGH GRADING IN THE BUFFER

DRAINAGE SYSTEM:

NOTE: LINES OF WATTLES TO

BE PERPENDICULAR TO RUNOFF

FLOW DIRECTION

RUNOFF INTO THE DRAINAGE SYSTEM, SEE DETAILS.

1. THE DRAINAGE SYSTEM SHALL BE INSTALLED FROM THE DOWNSTREAM END UP. 2. A SILT FENCE SHALL BE INSTALLED AT THE OUTFALL OF ALL TEMPORARY BASINS AND SWALES. IT SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.

WATER SHALL NOT BE ALLOWED TO ENTER PIPES FROM UN-STABILIZED SURFACES. SILT FENCE SHALL BE MONITORED, CLEANED & REPLACED AS NEEDED ON A REGULAR BASIS. SEE NPDES SWPPP REQUIREMENTS, IF APPLICABLE. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR

THE ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD AND BACKER BOARD. 5. IF UNSTABLE AREAS ARE ENCOUNTERED DUE TO NATURAL SPRINGS OR GROUNDWATER BREAKOUT, INTERCEPTOR DRAINS SHALL BE INSTALLED TO DIRECT THE

GRADE TO

DIRECT FLOW

PROFILE VIEW

-DISTURBED SURFACE

CONTINUOUS LINE

STRAW WATTLES-

ACCUMULATED SILT

AND DEBRIS REGULARLY

DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

6. IT IS IMPORTANT THAT THE BINDER COURSE, WITH BERMS, BE INSTALLED ON THE LIMITS OF THE PARKING LOT AND ACCESS ROADS AS SOON AS FEASIBLE AS THESE AREAS WILL FUNCTION AS A CONDUIT FOR RUNOFF.

1 1/2" SQ. WOOD POST

'O' TO 4' ON CENTER*

-PROTECTED AREA

NOTE: ALL SITE CONSTRUCTION METHODS & MATERIALS SHALL COMPLY TO THE REQUIREMENTS OF THE SUDBURY DEPARTMENT OF PUBLIC WORKS, AND ANY ISSUED ORDER OF CONDITIONS

WRAP ATTACHMENT

CORD AROUND

6' FOR 500 SF/LF FENCE

POST TWICE

1"x1"x24" STAKE

STRAW

DEPTH -

INSTALLATION OF UTILITIES:

1. CARE SHALL BE TAKEN TO ASSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS EXISTING STREETS OR OTHER OFF-SITE AREAS.

2. THE INSTALLATION OF SUBSURFACE UTILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.

3. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

LANDSCAPING:

1. LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.

2. CONTRACTOR SHALL UTILIZE A VARIETY OF SLOPE STABILIZATION METHODS AND MATERIALS WHICH SHALL BE ADJUSTED TO THE SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMAT (OR SIMILAR PRODUCTS) SHALL BE AVAILABLE ON SITE.

3. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT OF VEGETATION, TEMPORARY MULCHING WITH HAY, TACKIFIED WOOD CHIPS OR OTHER METHODS SHALL BE PROVIDED.

4. A MINIMUM OF 6" TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE SPECIFIED GRADES. 5. SEED APPLICATIONS SHALL BE IN ACCORDANCE WITH THE GRASS AND SLOPE COVER

PRE-CONSTRUCTION:

SPECIFICATIONS.

1. AN EROSION CONTROL BARRIER (SEE SHEET C-7) SHALL BE INSTALLED AS DEPICTED ON THE SITE PLAN, BETWEEN THE AREAS TO BE DISTURBED AND WETLAND AREAS. THIS BARRIER SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED. THE EROSION CONTROL BARRIERS AS SHOWN ON THE SITE PLAN ARE THE MINIMUM REQUIRED TO PROTECT THE ON & OFF SITE DRAINAGE SYSTEMS.

2. PHOTOGRAPHS AND/OR VIDEO IMAGES OF THE PRE-CONSTRUCTION CONDITION OF THE SITE AND SURROUNDING AREAS, ESPECIALLY THE ADJACENT STREETS SHALL BE TAKEN, DEVELOPED AND DATED. A COPY OF THESE MATERIALS SHALL BE SUBMITTED TO THE COMMISSION AND OWNER FOR THEIR FILES. THESE PICTURES AND IMAGES SHALL REFERENCE EXISTING SITE CONDITIONS AND PERMANENT REFERENCE MARKS TO ENABLE RECOGNITION OF THE AREA BEING PHOTOGRAPHED, AND SHALL REPRESENT A COMPREHENSIVE VIEW OF THE SITE PRIOR TO DEVELOPMENT.

3. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA ON A PORTION OF THE AREA TO BE DISTURBED FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS. THE STAGING AREA SHALL BE OUTSIDE OF THE 100' WETLANDS BUFFER ZONE.

4. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON—SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO: HAYBALES, SILT FENCE AND CRUSHED STONE.

5. A TEMPORARY STONE CONSTRUCTION ENTRANCE IS REQUIRED TO PREVENT TRACKING OF SILT, MUD, ETC. ONTO EXISTING ROADS. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE IS SILT LADEN OR EQUIPMENT IS OBSERVED TO BE TRACKING SOIL ONTO THE ROADWAYS.

6. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN, ON THE PLAN OR IN ANY ORDER OF CONDITIONS.

GENERAL CONSTRUCTION REQUIREMENTS: 1. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE OUTSIDE OF THE 100 FOOT BUFFER ZONE TO THE ENTRANCE TO THE DRAINAGE SYSTEM AND SHALL NOT BE CONDUCTED IN PROXIMITY TO SEDIMENTATION BASINS OR DIVERSION SWALES, AND BE PERFORMED OFF-SITE IF POSSIBLE.

2. NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS IS ALLOWED IN THE 100 FOOT BUFFER ZONE. THE BURIAL OF STUMPS, CONSTRUCTION DEBRIS OR OTHER MATERIALS SHALL NOT BE ALLOWED ANYWHERE ON—SITE.

3. NO MATERIALS SHALL BE DISPOSED OF INTO THE WETLANDS OR EXISTING OR PROPOSED DRAINAGE SYSTEMS. ALL CONTRACTORS INCLUDING: CONCRETE SUPPLIERS, PAINTERS AND PLASTERERS, SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO THE SITE DRAINAGE SYSTEMS.

4. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS. AS NEEDED.

5. ALL SUBCONTRACTORS SHALL BE NOTIFIED THAT CLEANING OF EQUIPMENT WITHIN THE 100' WETLAND BUFFER IS NOT PERMITTED. INCLUDING, BUT NOT LIMITED TO, CONCRETE TRUCKS, PAINTERS, PLASTERERS, ETC.

LOCAL PERMITTING:

2X10 SET LEVEL

-LARGE STONES

TO HOLD 2X10

CONTINUOUS

SILT FENCE

TEMPORARY DEWATERING AREA

EROSION CONTROL BARRIER

THIS PLAN IS PART OF A SET OF DOCUMENTS WHICH INCLUDE LOCAL PERMITS LOCAL REVIEW AND MODIFICATIONS TO PROPOSED CONSTRUCTION E&S CREATED BY THE ABOVE LISTED CRITERIA.



-STAKED HAYBALE

1" REBAR FOR BAG

OPTIONAL OVERFLOW

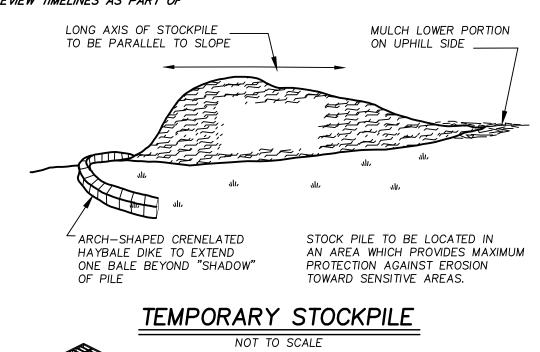
(REBAR NOT INCLUDED)

SILTSACK

DUMP LOOPS

REMOVAL FROM INLET

(REBAR NOT INCLUDED)



SIDE VIEW INSTALLED EXPANSION-RESTRAINT

INLET SEDIMENT CONTROL DEVICE

INSTALLATION DETAIL

85 main street hopkinton, massachusetts



Planning, Landscape Architecture, Civil Engineering, Surveying 256 GREAT ROAD, SUITE 4 876 SALISBURY STREET LITTLETON, MA 01460 978.486.0334 Ph. HOLDEN, MA 01520 508.829.0333

978.486.0447 Fax places@placesassociates.com

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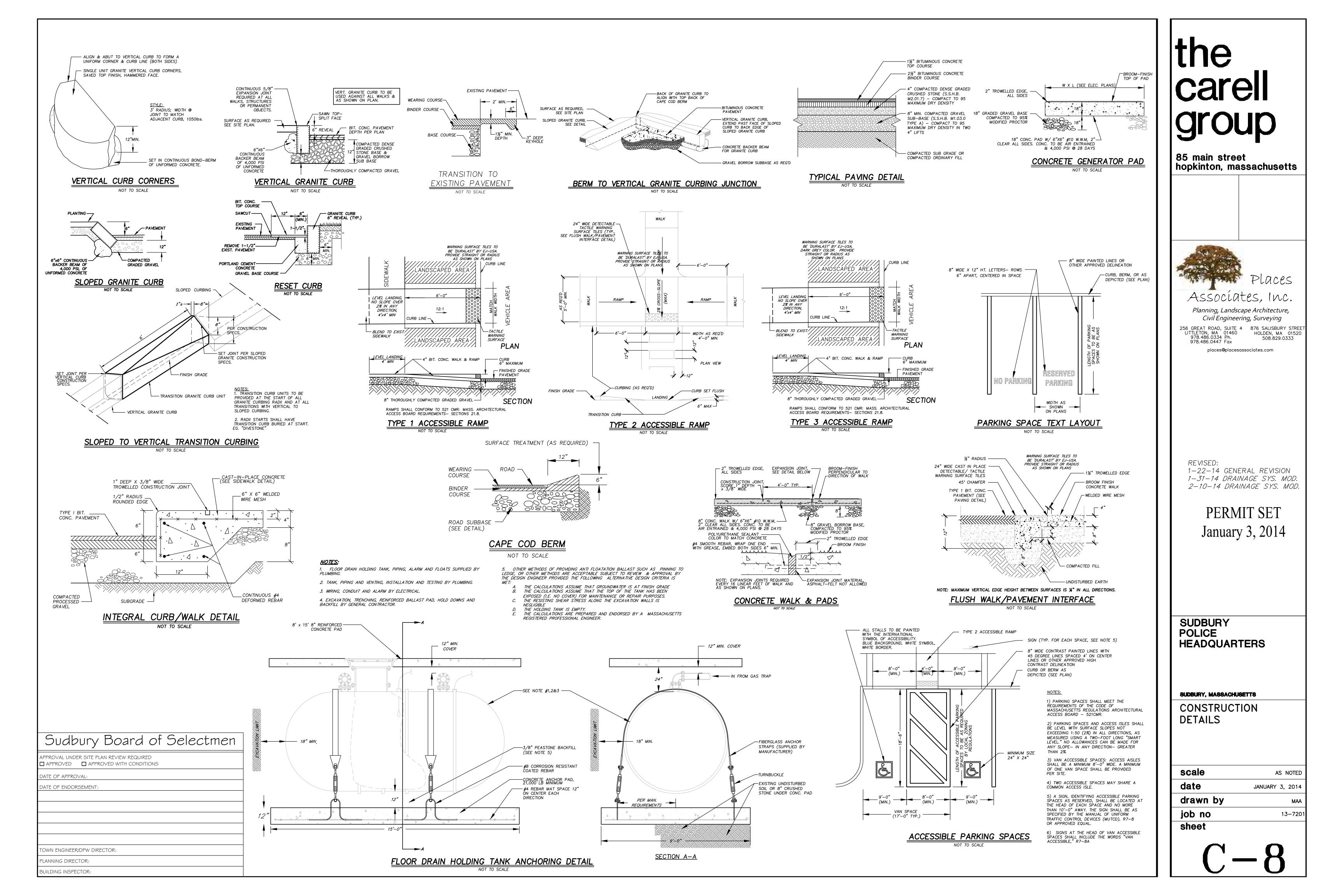
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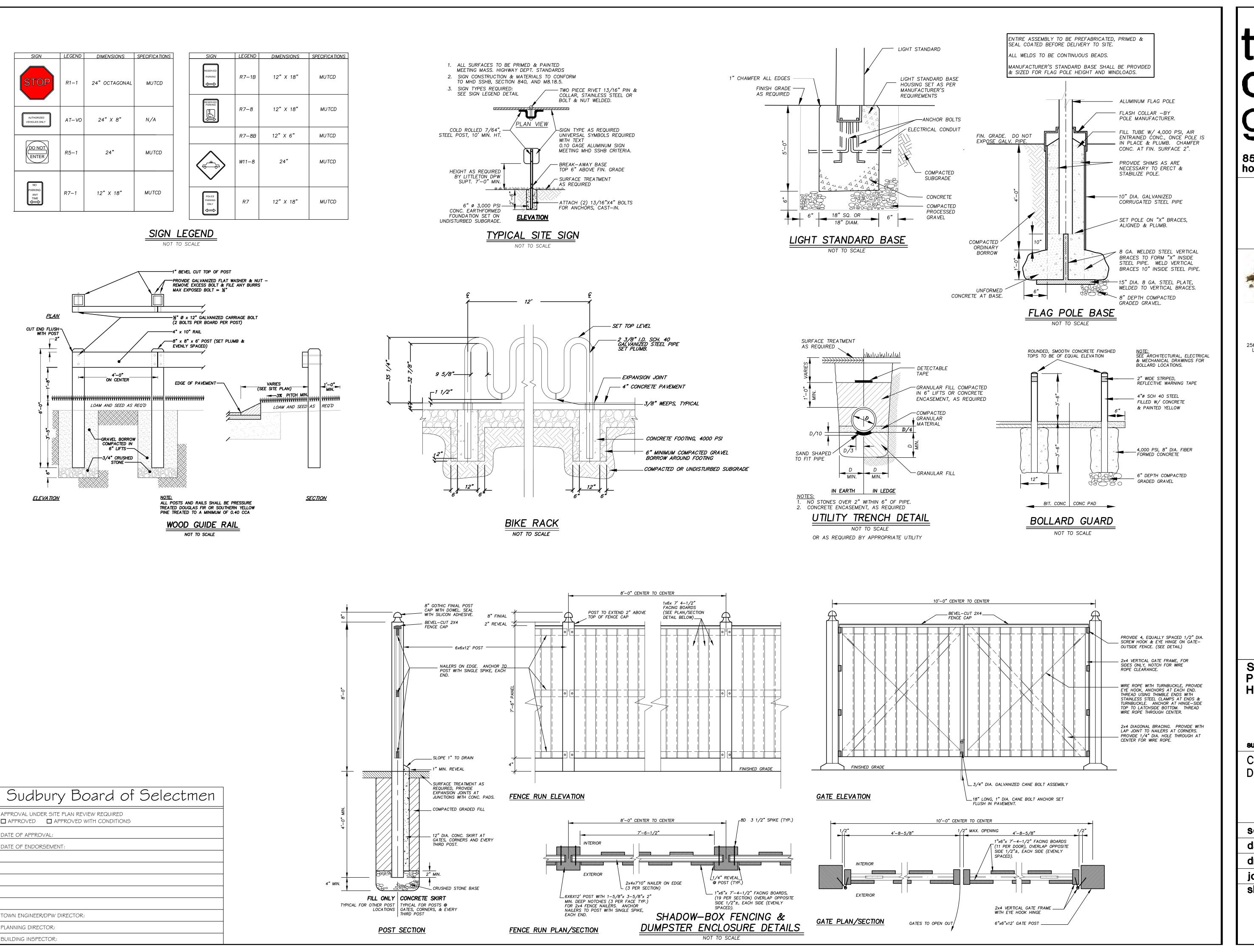
SUDBURY POLICE **HEADQUARTERS**

SUDBURY, MASSACHUSETTS

EROSION AND **SEDIMENTATION** CONTROL PLAN

scale AS NOTED JANUARY 3, 2014 drawn by 13-7201 job no sheet





the carell group

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978.486.0447 Fax

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SUDBURY POLICE HEADQUARTERS

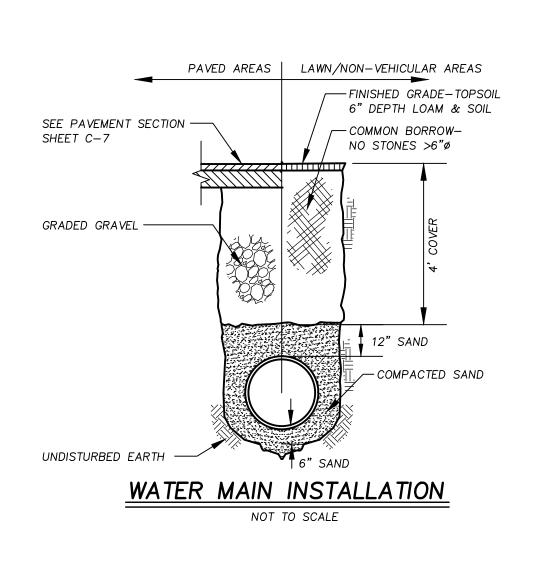
SUDBURY, MASSACHUSETTS

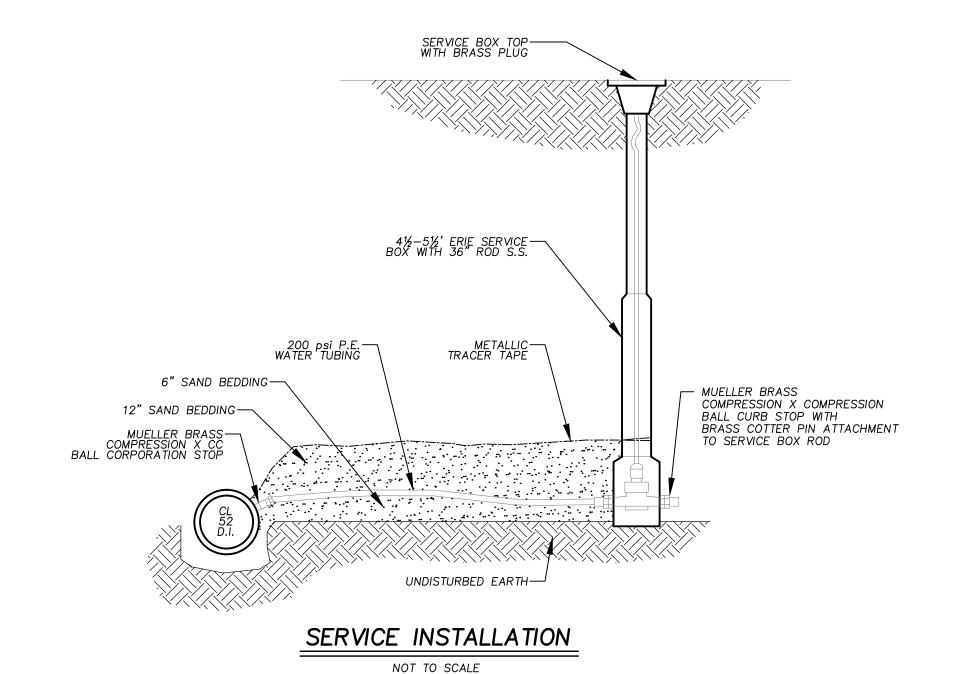
CONSTRUCTION
DETAILS

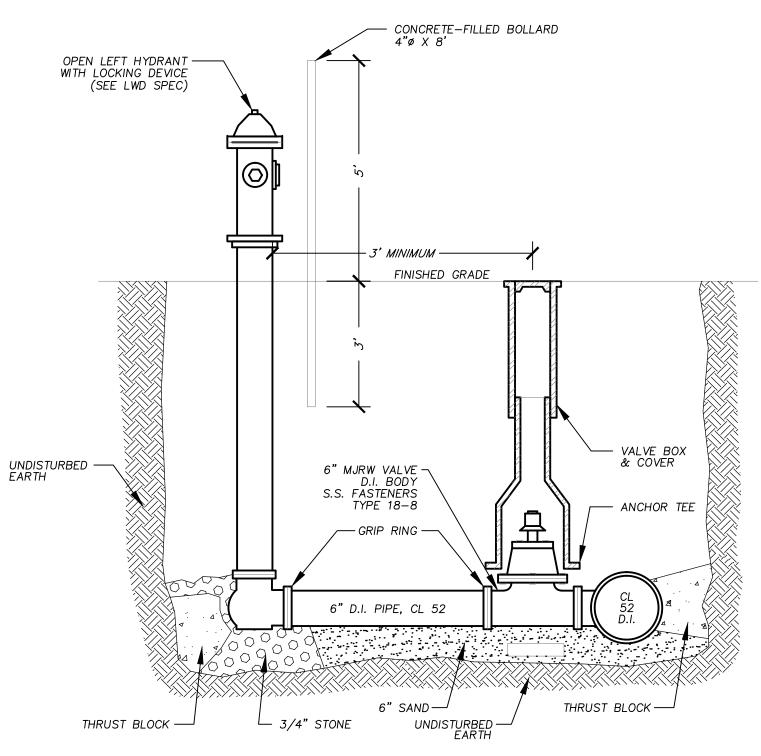
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JANUARY 3, 2014
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MAA

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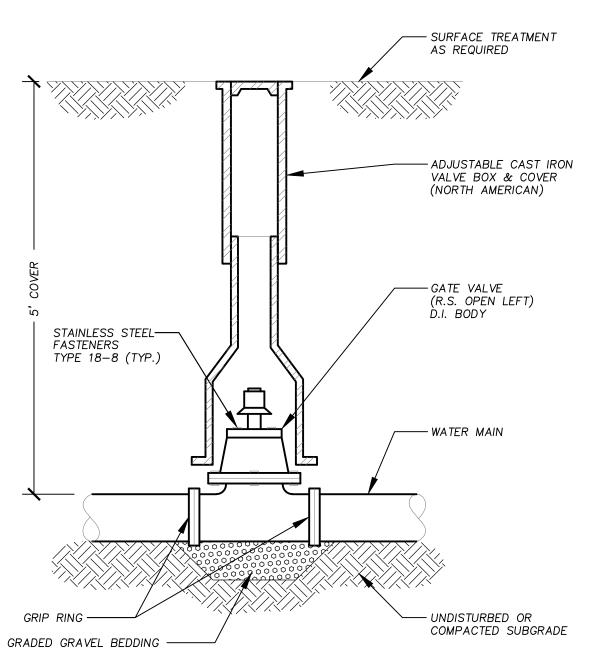
C-9



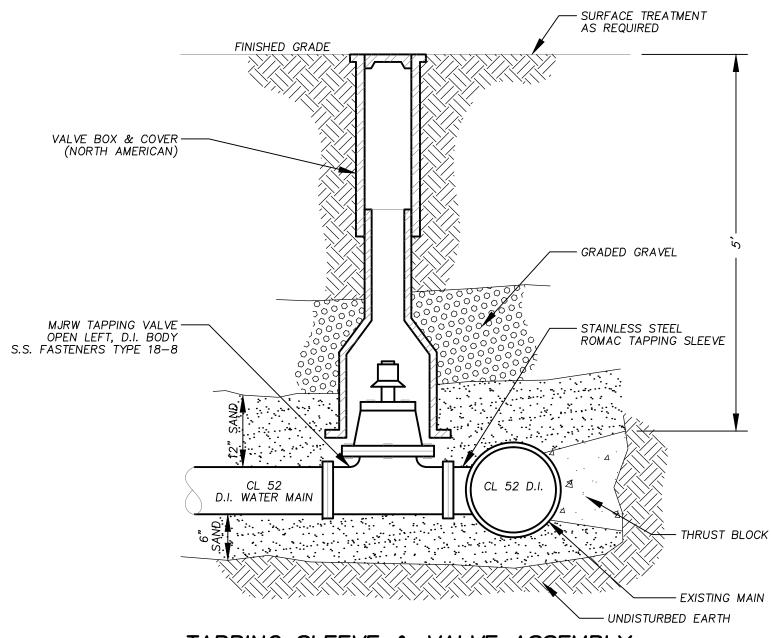




HYDRANT ASSEMBLY THREE-WAY GATED ANCHOR TEE WITH FOSTER ADAPTER NOT TO SCALE



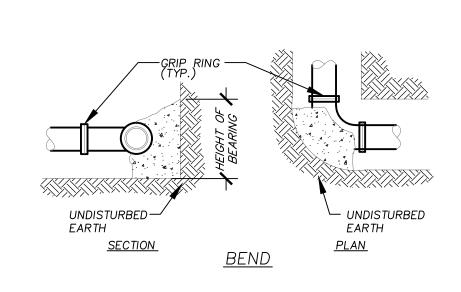
GATE VALVE AND BOX NOT TO SCALE

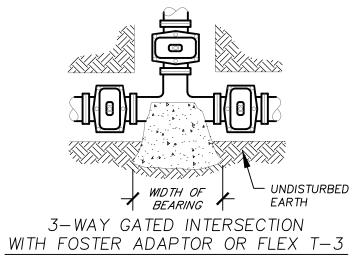


TAPPING SLEEVE & VALVE ASSEMBLY

NOT TO SCALE

WATER SYSTEM NOTE: ALL MATERIALS, METHODS, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SUDBURY WATER DISTRICT. TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CHECK WITH THE SUDBURY WATER DISTRICT PRIOR TO INSTALLATION OF ANY PIPE OR APPURTENANCES.





THRUST BLOCK DETAILS NOT TO SCALE



85 main street hopkinton, massachusetts



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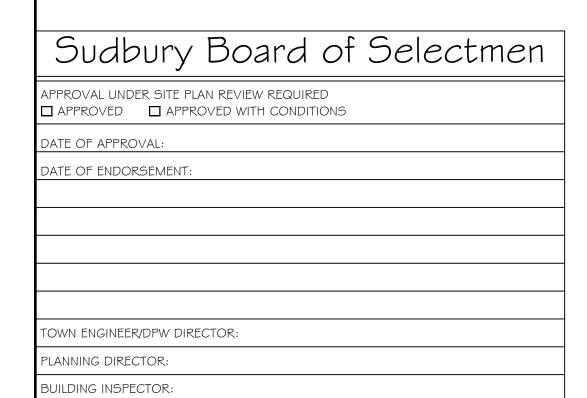
SUDBURY POLICE **HEADQUARTERS**

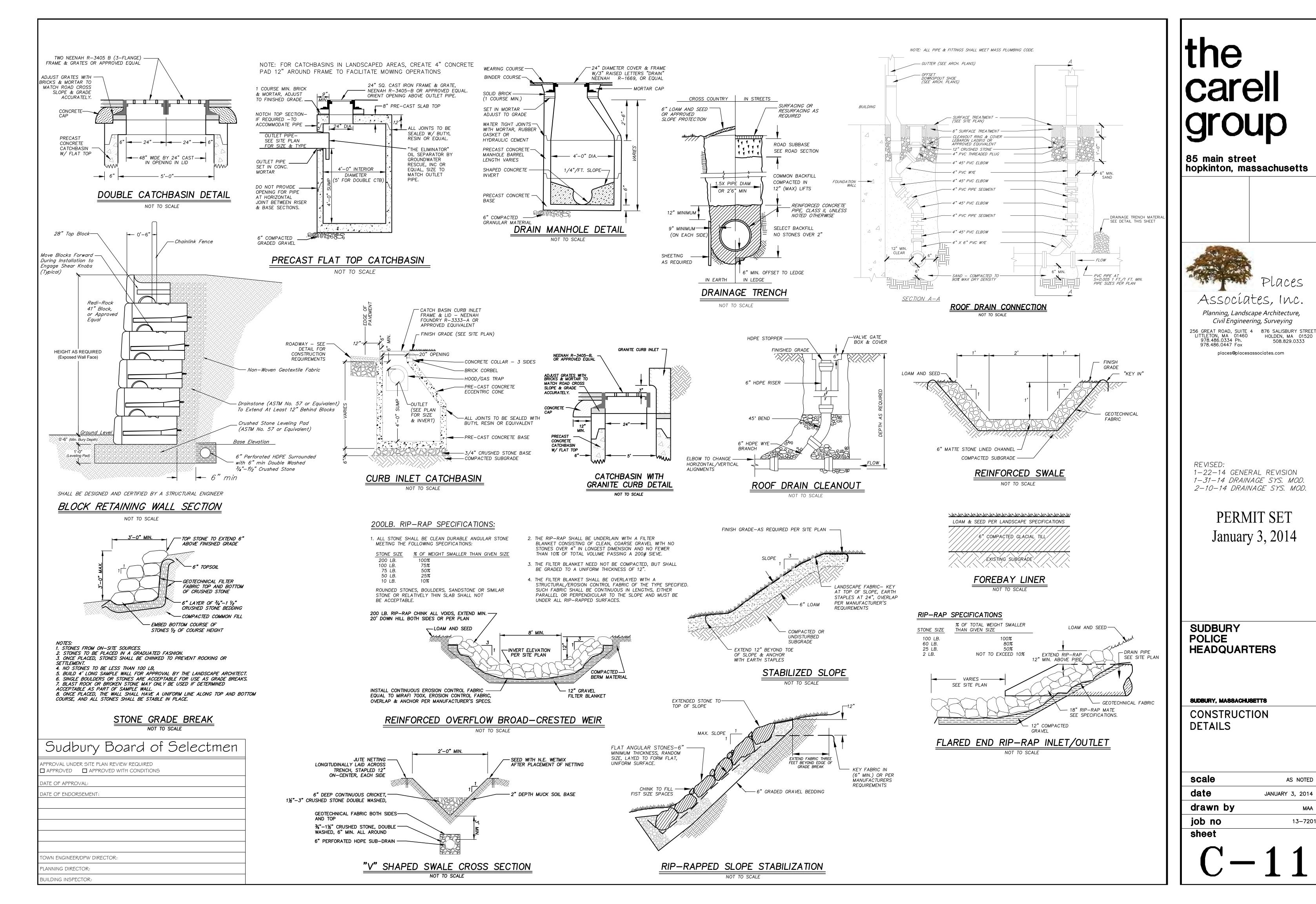
SUDBURY, MASSACHUSETTS CONSTRUCTION **DETAILS**

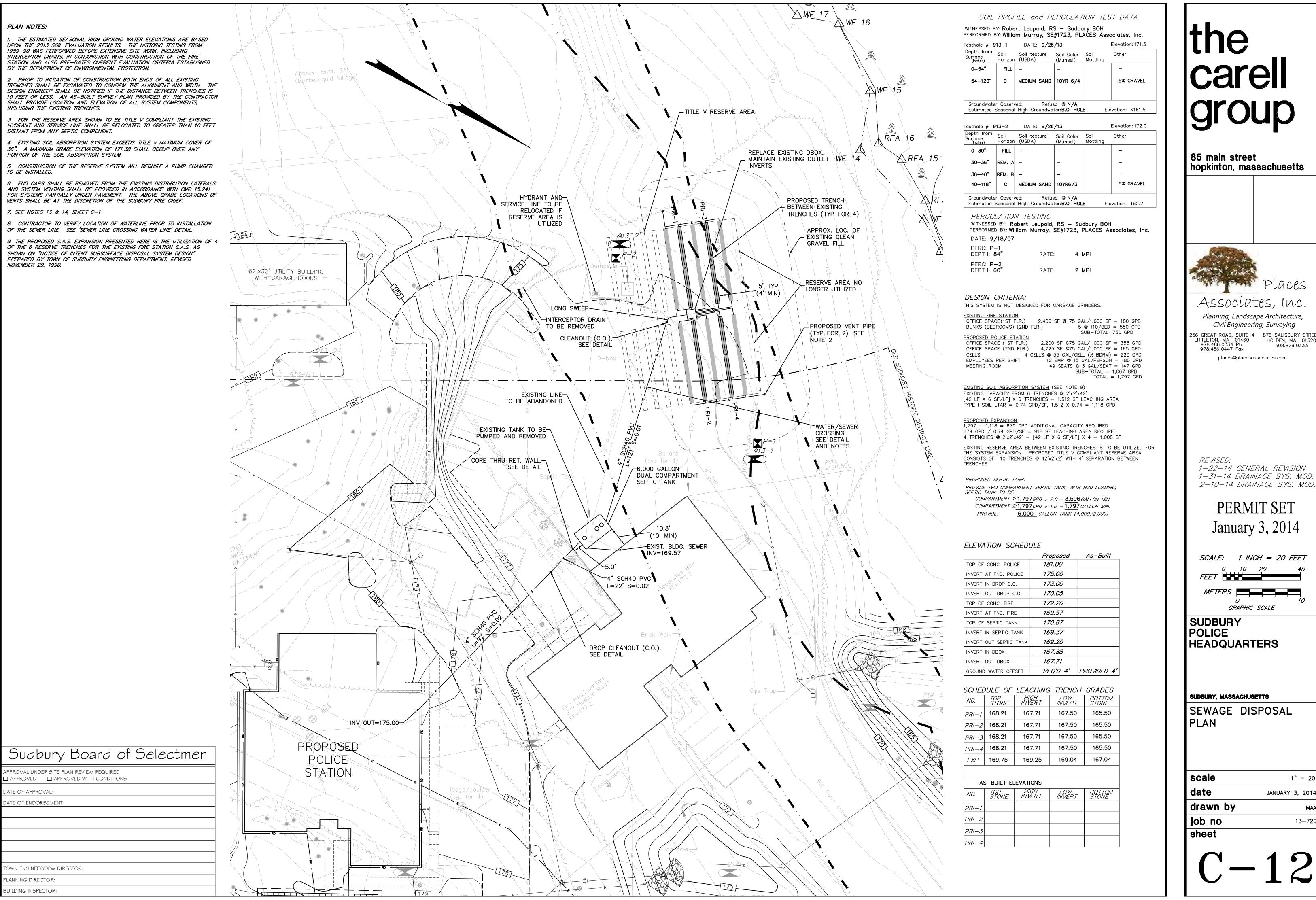
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SCALE: 1 INCH = 20 FEET

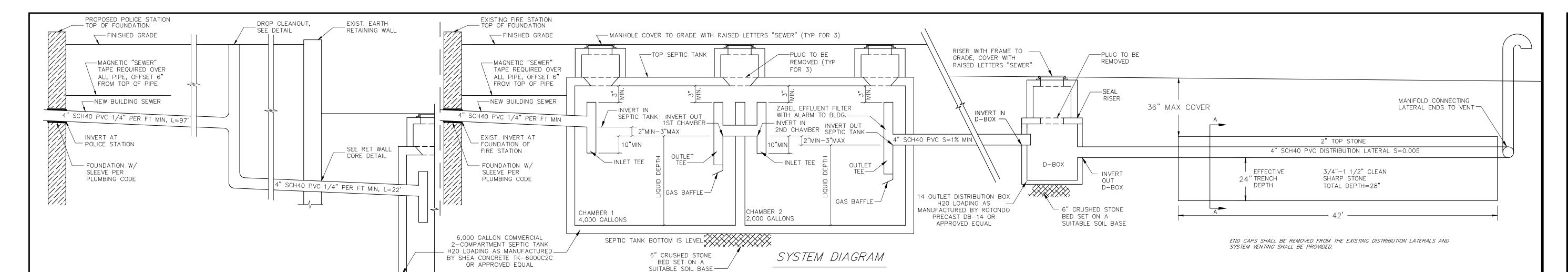
GRAPHIC SCALE

SUDBURY POLICE HEADQUARTERS

SUDBURY, MASSACHUSETTS

SEWAGE DISPOSAL PLAN

scale 1" = 20date JANUARY 3, 2014 drawn by job no 13-7201



NOT TO SCALE

2" OF 1/8" TO 1/2" DOUBLE WASHED -

CRUSHED STONE

6" OF COARSE SAND

NOT TO SCALE

— CONCRETE WALK,

FLOW

4" 45° ELBOW —∕

4"90°ELBOW-

TO REMAIN

S.A.S. SECTION A-A'

12" MIN-36" MAX COVER

- 4' MIN - 2' - 4' MIN - -

~ 8"ø CONCRETE WALL CORE

PROVIDE RODENT RESISTANT

SEWER LINE AND PREVENT

CONCRETE/PVC ABRASION

EXPANDING FOAM TO SUPPORT

____ 4"PVC SEWER LINE

RET. WALL CORE DETAIL

NOT TO SCALE

EXISTING TRENCH, —

CAST IRON CLEAN-OUT LID AND FRAME. ~

FRAME TO READ "SEWER"

CAST IRON SLIDING CURB BOX -

– 4" PVC RISER -

BED IN 6" SAND,

ALL SIDES

MAGNETIC "SEWER" TAPE

REQUIRED OVER ALL PIPE,-

OFFSET 6" FROM TOP OF PIPE

ALL PIPE AND FITTINGS TO BE PVC SCH40, SOLVENT WELD

TO SEPTIC TANK

->-

4" WYE BRANCH -

4" SWEEP ELBOW, AS REQUIRED -

FOR HORIZONTAL ANGLE (64°)

CLEANOUT DETAIL

NOT TO SCALE

- 4" WYE BRANCH

DROP CLEANOUT DETAIL

NOT TO SCALE

TYP FOR 3

LOAM AND SEED-

FINISHED GRADE

PRE CONSTRUCTION:

THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO ANY ON SITE EXCA VA TION.

PRIOR TO INITIATION OF CONSTRUCTION BOTH ENDS OF ALL EXISTING TRENCHES SHALL BE EXCAVATED TO CONFIRM THE ALIGNMENT AND WIDTH. THE DESIGN ENGINEER SHALL BE NOTIFIED IF THE DISTANCE BETWEEN TRENCHES IS 10 FEET OR LESS. AN AS-BUILT SHALL PROVIDE LOCATION AND ELEVATION OF ALL SYSTEM COMPONENTS, INCLUDING THE EXISTING TRENCHES.

THE OWNER SHALL VERIFY ZONING REGULATIONS PRIOR TO CONSTRUCTION.

THE TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN ARE A RESULT OF AN ON THE GROUND TOPOGRAPHIC SURVEY PERFORMED BY PLACES ASSOCIATES, INC. THIS PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF TOPOGRAPHY. PROPERTY LINE INFORMATION WAS TAKEN FROM THE RECORD PLAN.

THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED NOR IS IT IMPLIED. THE LOCATION OF ANY INDICATED SUBSURFACE UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL OBTAIN ADEQUATE LOCATION INFORMATION FROM THE APPLICABLE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION,

A TEMPORARY BENCHMARK SHALL BE SET WITHIN 50' TO 75' OF THE PROPOSED CONSTRUCTION AREA.

THIS SITE IS WITHIN 100' OF WETLANDS AND WITHIN 200' OF RIVER BANK. A NOTICE OF INTENT MUST BE FILED WITH THE SUDBURY CONSERVATION COMMISSION.

THERE ARE NO EXISTING PRIVATE WELLS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM COMPONENTS, ALL KNOWN WELLS WITHIN 150' OF THE EXISTING PRIMARY AND EXPANSION SOIL ABSORPTION AREAS ARE SHOWN.

THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PROMPTLY OF ANY PLAN DEFICIENCIES OR OTHER UNFORESEEN CONDITIONS WHICH MAY IMPACT THE FUNCTION OF THE COMPLETED SYSTEM PRIOR TO CONSTRUCTION.

DEVIATIONS FROM THE PLAN REQUIREMENTS OR DESIGN DURING CONSTRUCTION AND OPERATION OF THE PROPOSED SYSTEM SHALL VOID ANY CERTIFICATION OR REPRESENTATIONS MADE RELATIVE TO THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.

MATERIAL SPECIFICATIONS:

COMPONENT MANUFACTURER IS REQUIRED.

THE SOIL ABSORPTION SYSTEM IS DESIGNED TO ACCOMMODATE SANITARY SEWAGE DERIVED FROM DOMESTIC USAGE THAT IS COMPRISED OF WATER CARRIED PUTRESIBLE WASTES ONLY.

ALL TANKS AND MANHOLES SHALL BE WATERTIGHT THROUGH THE MANUFACTURER'S WARRANTY.

INCH MINIMUM DIAMETER WATERTIGHT ACCESS MANHOLE(S).

ALL TANKS, CHAMBERS AND TRAPS SHALL BE EQUIPPED WITH TWENTY

ALL TANKS, D-BOXES, CHAMBERS, TRAPS, COVERS, ACCESS MANHOLE AND PIPING SHALL BE ABLE TO WITHSTAND AN H-20 LOAD. IF VEHICLE TRAFFIC IS ANTICIPATED, H-20 LOADING CERTIFICATION FROM THE

ALL TANKS, D—BOXES, CHAMBERS AND TRAPS SHALL BE PRECAST REINFORCED CONCRETE ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CEMENT SHALL BE PORTLAND TYPE I OR III PER ASTM C150-81.

ALL CONCRETE ADMIXTURES SHALL BE PER ASTM C233-82.

ALL CONCRETE REINFORCEMENT SHALL BE WIRE FABRIC, GRADE 40/60 R'D PER ASTM A615.

THE SEPTIC TANK SHALL BE EMBOSSED WITH A SEAL STATING COMPLIANCE WITH ASTM C1227093.

THE MINIMUM REINFORCED CONCRETE WALL THICKNESS IS THREE INCHES. ALL SYSTEM COMPONENTS SHALL BE CONSTRUCTED WITH CORROSION RESISTANT MATERIAL

ALL PIPING SHALL BE POLYVINYL CHLORIDE (PVC) ASTM 26655 SCHEDULE 40 NSF.

THE BUILDING SEWER SHALL COMPLY WITH THE STATE PLUMBING CODE, 248 CMR 2.00.

APPROVAL UNDER SITE PLAN REVIEW REQUIRED

ATE OF APPROVAL:

ATE OF ENDORSEMENT

OWN ENGINEER/DPW DIRECTOR:

PLANNING DIRECTOR:

UILDING INSPECTOR:

☐ APPROVED ☐ APPROVED WITH CONDITIONS

ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS TO LOCATE THEM WHEN BURIED.

Sudbury Board of Selectmen

THE BUILDING SEWER LINE SHALL BE CONSTRUCTED WITH WATER TIGHT

100 FEET.

ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED TO PREVENT EROSION, UNLESS UNDER PAVEMENT.

MAX. COVER ABOVE ANY SYSTEM COMPONENT IS 36", EXCEPT WHERE

EXISTING SYSTEM NOTES

THE EXISTING SEPTIC TANK AT THE FIRE STATION SHALL BE PUMPED AND

THE NEW SEPTIC TANK SHALL BE INSTALLED UPON REMOVAL OF EXISTING AND SHALL FUNCTION AS A TEMPORARY HOLDING TANK UNTIL THE CONSTRUCTION OF DOWN GRADIENT COMPONENTS IS COMPLETED AND CERTIFIED FOR USE. A TEMPORARY HIGH WATER ALARM SHALL BE INSTALLED AND SET TO THE ELEVATION OF THE INVERT OUT. SEPTIC TO BE MONITORED AND PUMPED AS

SEPTIC TANK NOTES:

MAINTENANCE.

UPGRADES TO, THE SYSTEM.

THE INLET AND OUTLET TEES SHALL BE LOCATED ON THE CENTER LINE OF THE TANK, DIRECTLY UNDER THE TEE ACCESS MANHOLES. THE TOP OF THE INLET AND OUTLET TEES SHALL BE AT LEAST THREE

P-122 OR EQUAL. WITH AN ALARM TO FIRE STATION CONTROL PANEL

THE OUTLET TEE SHALL EXTEND 14 INCHES BELOW THE OUTLET PIPE INVERT PLUS 5 ADDITIONAL INCHES FOR EVERY FOOT OF TANK DEPTH IN EXCESS OF FOUR FEET.

THE DEPTH OF LIQUID BELOW THE INVERT OF THE OUTLET TEE SHALL BE FOUR FEET MINIMUM.

BE PROVIDED IN THE TANK COVER. ACCESS MANHOLES SHALL BE LOCATED ON THE CENTER LINE ABOVE EACH INLET AND OUTLET TEE AND AT THE TANK CENTER. H20 LOADING IS REQUIRED.

ALL ACCESS MANHOLES SHALL BE BROUGHT TO FINISHED GRADE. MANHOLES BROUGHT TO FINISHED GRADE SHALL BE MADE SECURE TO PREVENT UNAUTHORIZED ACCESS. NO STRUCTURES OR OTHER FEATURE SHALL BE LOCATED OVER OR

NEAR THE TANK SO AS TO ALLOW REQUIRED INSPECTION AND

EVERY SEPTIC TANK SHALL BE PUMPED WHENEVER NECESSARY TO ENSURE PROPER SYSTEM FUNCTION, A MINIMUM OF EVERY TWO YEARS.

LAYER IS WITHIN TWELVE INCHES OF THE BOTTOM OF THE OUTLET TEE.

THE SEPTIC TANK SHALL BE PUMPED WHEN THE TOP OF THE SCUM LAYER IS WITHIN TWO INCHES OF THE TOP OF THE OUTLET TEE OR WHEN THE BOTTOM OF THE SCUM LAYER IS WITHIN TWO INCHES OF THE

ALL SYSTEMS ARE DIFFERENT, THEREFORE IT IS RECOMMENDED THAT THE PUMPING FREQUENCY BE ADJUSTED TO OCCUR WHEN THE SLUDGE DEPTH IS NOT MORE THAN ONE QUARTER THE DESIGN LIQUID DEPTH.

THE CONTRACTOR PERFORMING THE PUMPING SHALL BE MADE AWARE OF THE OUTLET FILTER AND THE FILTER SHALL BE CLEANED, INSPECTED AND REPLACED IF NECESSARY UPON EACH PUMPING.

SYSTEM VENT NOTES: THE SYSTEM SHALL BE VENTED THROUGH THE BUILDING STACK VENT WHERE POSSIBLE. WHEN ADDITIONAL SYSTEM VENTS ARE INDICATED OR REQUIRED, THEY SHALL BE CONSTRUCTED WITH THE SAME PIPING SIZE AND MATERIAL, LOCATED SO AS TO PREVENT THE ENTRANCE OF ANIMALS OR PRECIPITATION AND BACKFILLED TIGHTLY TO PREVENT THE

MIGRATION OF SURFACE WATER INTO THE SOIL ABSORPTION SYSTEM

CONSTRUCTION NOTES:

ALL LOAM, SUBSOIL, LARGE BOULDERS AND FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED.

IF THE REMOVAL OF STONES OR BOULDERS RESULTS IN LOCAL DEPRESSIONS, FILLING TO GRADE WITH SUITABLE EXCAVATED PARENT MATERIAL IS ACCEPTABLE. AN OFFSET OF AT LEAST TEN FEET TO ANY EXISTING OR PROPOSED

WATER LINE SHALL BE PROVIDED FROM ALL SYSTEM COMPONENTS. SEE WATER/SEWER CROSSING DETAIL.

THE BUILDING SEWER SHALL BE LAID WITH A 2 PERCENT MINIMUM SLOPE (1/4 INCH PER FOOT PITCH). THE BUILDING SEWER SHALL BE LAID ON A CONTINUOUS LINE AND GRADE OR A MANHOLE SHALL BE

CLEANOUTS SHALL BE PROVIDED FOR ANY PIPE LENGTH IN EXCESS OF

THE BUILDING SEWER SHALL BE VENTED THROUGH THE BUILDING'S VENT

MANHOLE TO GRADE.

INCHES BELOW THE INSIDE TOP OF TANK.

THE OUTLET TEE SHALL BE FITTED WITH AN EFFLUENT FILTER, ZABEL THE INLET PIPE INVERT SHALL BE AT LEAST TWO INCHES BUT NOT MORE THAN THREE INCHES ABOVE THE OUTLET PIPE INVERT.

THE INLET TEE SHALL EXTEND TEN INCHES BELOW THE OUTLET PIPE

SEPTIC TANKS SHALL HAVE AT LEAST NINE INCHES OF EARTHEN COVER.

AT LEAST THREE 20-INCH MINIMUM DIAMETER ACCESS MANHOLES SHALL

THE SEPTIC TANK SHALL BE PUMPED WHEN THE TOP OF THE SLUDGE

BOTTOM OF THE OUTLET TEE.

PUMPING SHALL OCCUR NOT MORE THAN THREE YEARS APART.

SYSTEM OPERATION & MAINTENANCE: PROPER OPERATION AND MAINTENANCE IS ESSENTIAL TO THE LONG TERM FUNCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEMS. THE OWNER OR OPERATOR OF THE SEWAGE DISPOSAL SYSTEM IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF, AND ANY

JOINTS ON WATER MAIN SHALL NOT BE WITHIN 3' OF SEWER CROSSING SFWFR **ABOVE**

EL=170.17

EL=169.50 T

RETAINING WALL.

PARKING PAVEMENT -

TO REMAIN

()WATER MAIN SEWER BELOW

SEWER LINE CROSSING-WATER LINE NOT TO SCALE

THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE FOLLOWING GENERAL REQUIREMENTS.

A. PARALLEL INSTALLATION: 1. NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.

2. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, ONE OF TWO METHODS MAY BE EMPLOYED. IN BOTH CASES THE INVERT OF THE WATER LINE MUST BE AT LEAST 18" ABOVE THE CROWN OF THE SEWER LINE.

(a) LAY WATER AND SEWER IN SEPARATE TRENCHES

(b) LAY THE WATER AND SEWER IN THE SAME TRENCH WITH THE WATER MAIN AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH A MINIMUM HORIZONTAL SEPARATION FROM INSIDE PIPE TO INSIDE PIPE OF 36"

1. WHEN SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER LAID SUCH THAT THE INVERT OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER

2. WHEN THE SEWER ELEVATION CANNOT BE VARIED TO MEET THE REQUIREMENT, THE WATER LINE MUST BE RELOCATED OR RECONSTRUCTED WITH MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10 ft ON EACH SIDE OF THE SEWER. 3. WHEN IT IS IMPOSSIBLE TO OBTAIN EITHER OR BOTH OF THE ABOVE REQUIREMENTS, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE OR OTHER EQUIVALENT MATERIAL. BOTH PIPES SHALL BE PRESSURE TESTED BY AN APPROVED METHOD TO ASSURE WATER TIGHTNESS OR BOTH PIPES SHALL BE ENCASED IN CONCRETE.

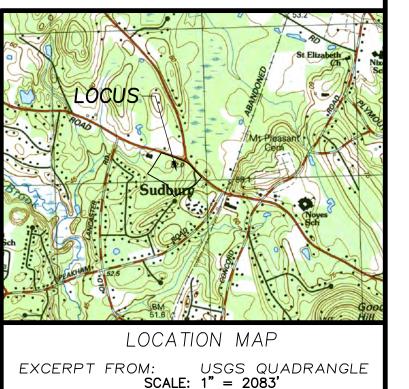
OWNER: TOWN OF SUDBURY MAP: G08 PARCEL: 0008

BIT. CONC. PAVEMENT

FINISHED GRADE

-SELECT

BACKFILL



85 main street hopkinton, massachusetts



Civil Engineering, Surveying 256 GREAT ROAD, SUITE 4 876 SALISBURY STREET LITTLETON, MA 01460 HOLDEN, MA 01520 978.486.0334 Ph. 508.829.0333 978.486.0447 Fax

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REVISED: 1-22-14 GENERAL REVISION 1-31-14 DRAINAGE SYS. MOD. 2-10-14 DRAINAGE SYS. MOD.

PERMIT SET January 3, 2014

SUDBURY POLICE **HEADQUARTERS**

SUDBURY, MASSACHUSETTS

SEWAGE DISPOSAL PLAN AND DETAILS

scale AS NOTED date **JANUARY 3, 2014** drawn by 13-7201 iob no sheet