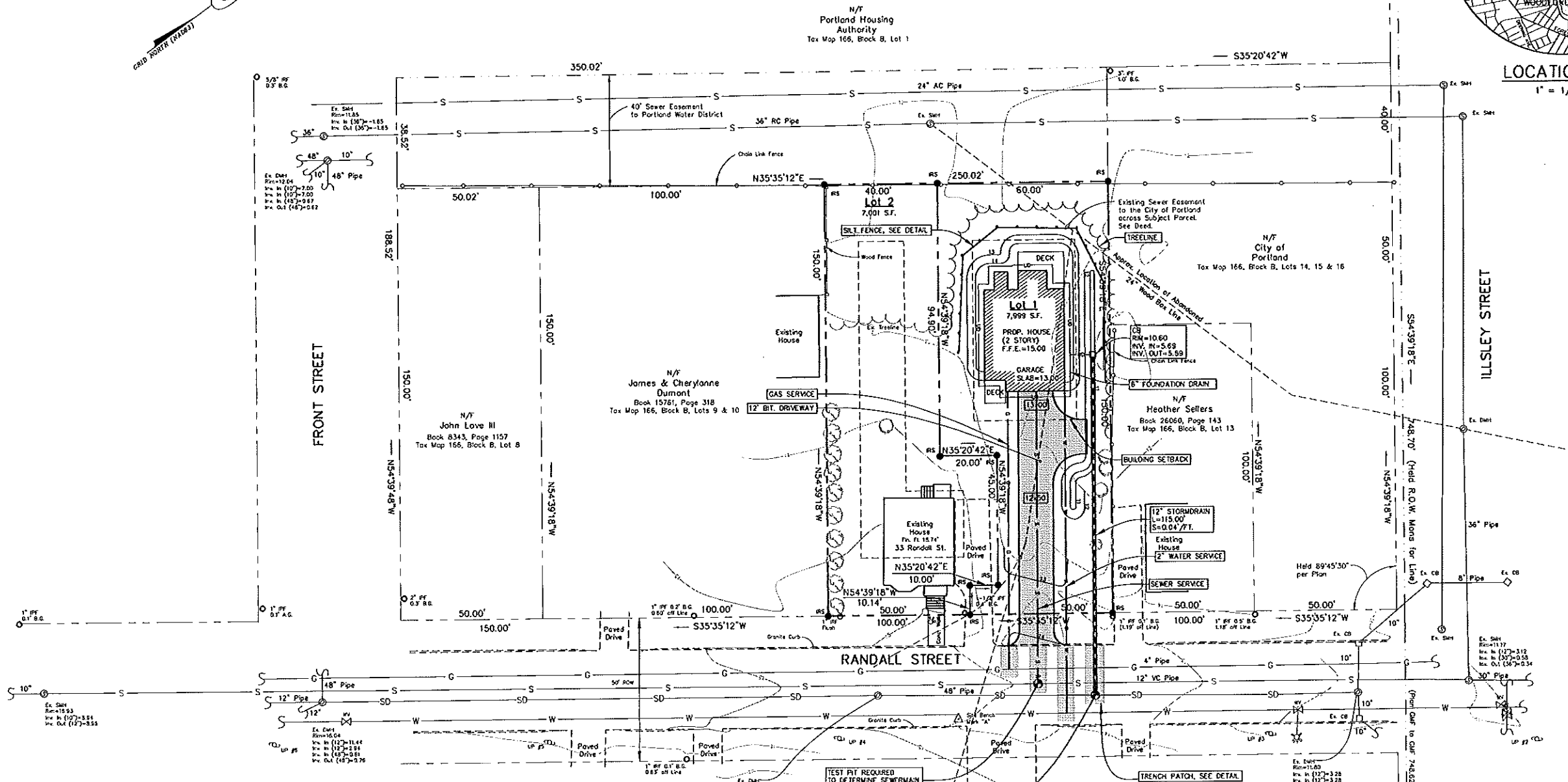
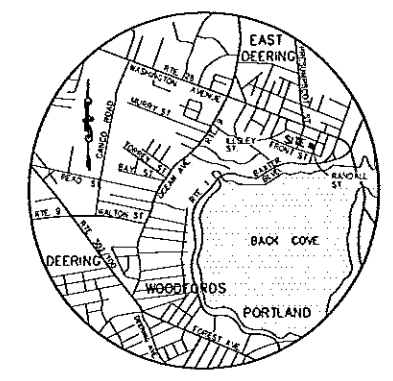
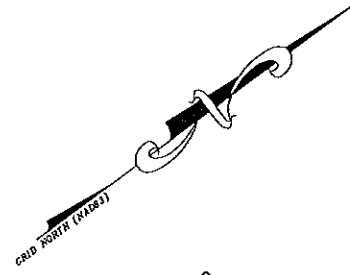
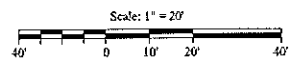


\\server\cadd\2011\1075\dwg\Siteplan_10/7/2011 10:54:24 AM



- NOTES:**
- OWNER: LUCY M. RICHIO LIFE ESTATE
33 RANDALL STREET
PORTLAND, MAINE 04103
 - APPLICANT: CRAIG HOLMAN
125 MILTON STREET
PORTLAND, MAINE 04103
 - SURVEYOR: ROBERT C. LIBBY JR., PLS #2190
BERRY HUFF MCDONALD MILLIGAN INC.
 - TAX MAP REFERENCE: MAP 166, BLOCK B, LOTS 11 & 12
 - DEED REFERENCE: BOOK 22023 PAGE 6
 - ZONING: R-5 RESIDENTIAL
 - LOT AREA: 15,000 S.F. (0.34 ACRES)
 - PROPOSED USE: SINGLE FAMILY RESIDENCE
 - MINIMUM STANDARDS: FRONTAGE=50 FT.
MIN. LOT SIZE=6,000 S.F. (SEWER)
SETBACKS:
FRONT & REAR=20 FT.
SIDE=12 FT. (2 STORY)
MAX. BUILDING HEIGHT=NONE
MIN. LOT WIDTH=60 FT.
 - SEWER SERVICE: PUBLIC
 - WATER SERVICE: PUBLIC
 - ELECTRIC/TELEPHONE: OVERHEAD FROM RANDALL STREET
 - ALL CONSTRUCTION AND SITE ALTERATIONS SHALL BE DONE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BMP'S, LATEST REVISION.
 - CONTRACTOR SHALL REPLACE ALL VERTICAL GRANITE CURBING ALONG RANDALL STREET AS NEEDED.

SYMBOL	LEGEND	DESCRIPTION
□	GRANITE MONUMENT FOUND	
○	IRON PIPE/IRON ROD FOUND	
⊙	DRILL HOLE FOUND	
⊗	SEWER MANHOLE	
⊕	CATCH BASIN	
⊖	UTILITY POLE	
⊙	METAL BOLLARD	
⊖	BARBED WIRE FENCE	
⊙	CONIFEROUS BUSH	
---	PROPERTY LINE	
---	EDGE OF CONCRETE	
---	EDGE OF PAVEMENT	
---	EXISTING CONTOUR	
A.G.	ABOVE GROUND	
N/F	NOW OR FORMERLY	
⊙ #5	CAPPED IRON ROD TO BE SET (PLS #2190)	



THIS PLAN REVIEWED AND APPROVED BY THE CITY OF PORTLAND SITE PLAN COMMITTEE:

DATE

CHAIR

BENCHMARK "A"
PK NAIL SET IN PAVEMENT LOCATED ON SOUTHEASTERLY SIDE OF RANDALL STREET. ELEVATION 14.04' (CITY DATUM). BASED ON RM ELEVATION OF DRAIN MANHOLE ON RANDALL STREET AND SHOWN ON PLAN REFERENCE #2.

- Plan References:**
- Plan Showing Proposed Scheme of Streets and Lots on Land of L.W. Dyer, East Deering, Maine, and Recorded in the Cumberland County Registry of Deeds in Plan Book 7, Page 2.
 - City of Portland, Maine, Public Works Department, Engineering Section, Randall Street Sewer Separation, Dated May 2003 Plan #986/13, Provided by the Engineering Department.
 - Plan Showing New Monuments Set along Illsley Street, City of Portland, Maine and Provided by the Engineering Department.
 - Various other Plans including the "Blue Sheets" provided by The City of Portland Engineering Department.

NO.	DATE	REVISION DESCRIPTION



BH2M
BERRY, HUFF, MCDONALD, MILLIGAN INC.
Engineers, Surveyors
20 State Street
Portland, Maine 04108
Tel: (207) 859-2771
Fax: (207) 859-6250

For
Craig Holman
125 Milton Street
Portland, Maine 04103

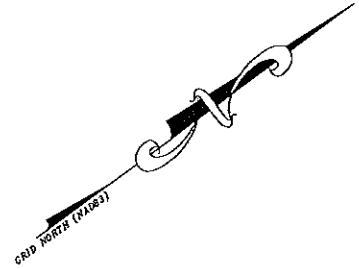
SITE PLAN
LAND OF
EUGENIA COUGHLIN & DONALD RICHIO
33 RANDALL STREET
PORTLAND, MAINE

DESIGNED	DATE
R. Libby, Jr.	Sept. 2011
DRAWN	SCALE
R. Libby, Jr.	1" = 20'
CHECKED	JOB. NO.
L. Berry	11075

SHEET
1

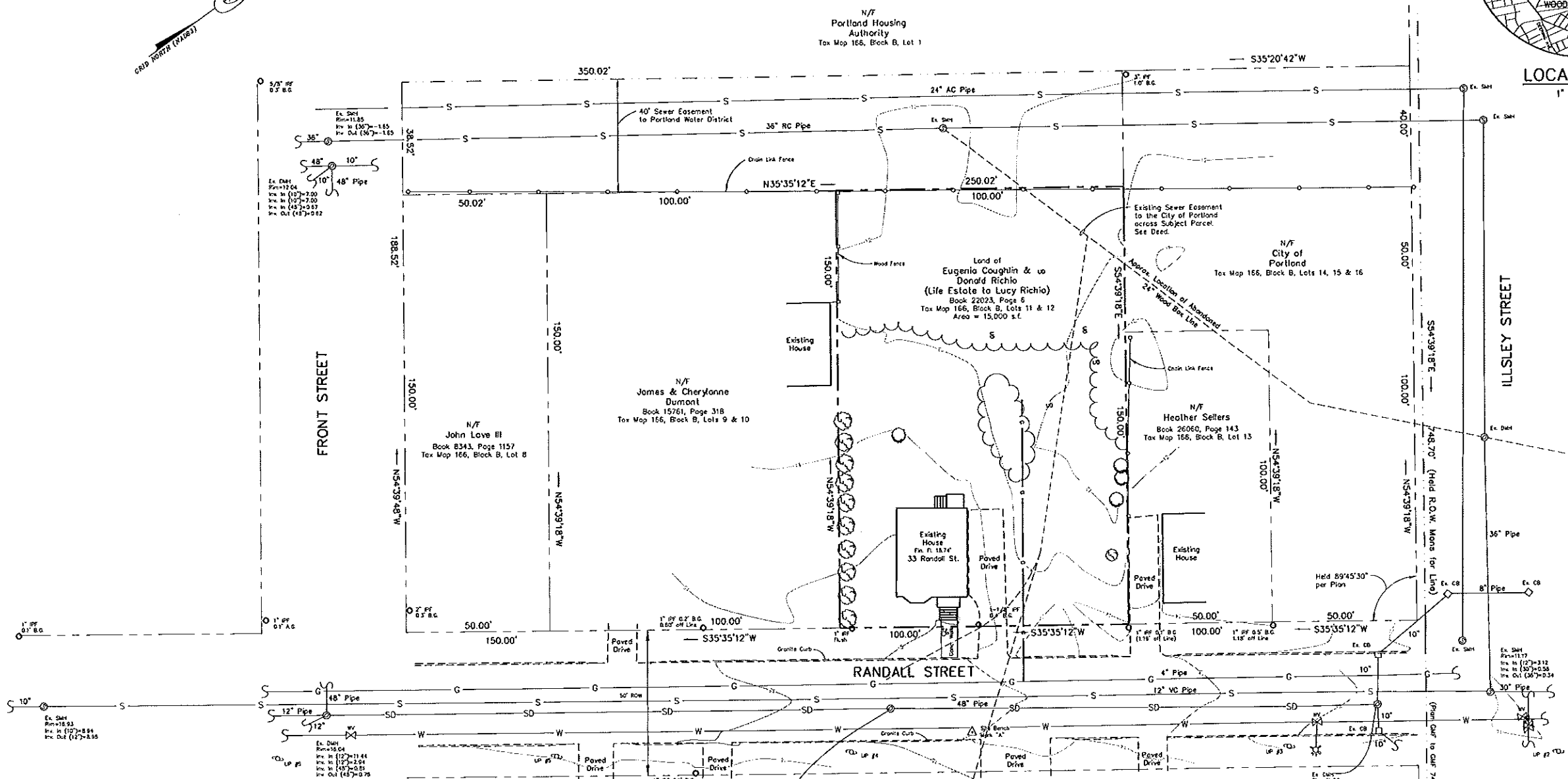
REPRODUCTION OR REUSE OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF BH2M INC. IS PROHIBITED

\\server\CAD\2011\1075\Draw\cust\dwg\10/1/2011\10:55:42 AM



LOCATION MAP
1" = 1/2 MILE

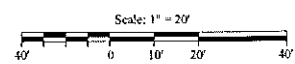
NO.	DATE	REVISION DESCRIPTION



SYMBOL	DESCRIPTION
□	GRANITE MONUMENT FOUND
○	IRON PIPE/IRON ROD FOUND
○	5/8" IRON ROD W/ CAP TO BE SET
⊕	WATER SHUTOFF
⊕	WATER VALVE
⊕	UTILITY POLE
⊕	SEWER MANHOLE
⊕	HYDRANT
⊕	DRAIN MANHOLE
⊕	CATCH BASIN
⊕	CHAIN LINK FENCE
⊕	DECIDUOUS TREE
⊕	DECIDUOUS BUSH
---	PROPERTY LINE
---	EASEMENT LINE
S	SEWER LINE
SD	STORM DRAIN LINE
W	WATER LINE
G	GAS LINE
---	TREELINE
---	EDGE OF PAVEMENT
---	EXISTING CONTOUR
---	ABOVE/BELOW GROUND
N/F	NOW OR FORMERLY

BENCHMARK "A"
PK NAIL SET IN PAVEMENT LOCATED ON SOUTHEASTERLY SIDE OF RANDALL STREET. ELEVATION 14.04' (CITY DATUM). BASED ON RM ELEVATION OF DRAIN MANHOLE ON RANDALL STREET AND SHOWN ON PLAN REFERENCE #2.

- Plan References:
- Plan Showing Proposed Scheme of Streets and Lots on Land of L.W. Dyer, East Deering, Maine, and Recorded in the Cumberland County Registry of Deeds in Plan Book 7, Page 2.
 - City of Portland, Maine, Public Works Department, Engineering Section, Randall Street Sewer Separation, Dated May 2003 Plan #986/13, Provided by the Engineering Department.
 - Plan Showing New Monuments Set along Illsley Street, City of Portland, Maine and Provided by The Engineering Dept.
 - Various other Plans including the "Blue Sheets" provided by The City of Portland Engineering Department.



I CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS TECHNICAL STANDARDS OF PRACTICE FOR A STANDARD BOUNDARY SURVEY, WITH THE FOLLOWING EXCEPTIONS:

- NO SURVEYORS REPORT
- NO DEED DESCRIPTION

ROBERT C. LIBBY JR.
(Signature)

ROBERT C. LIBBY JR. PLS #2190

BH2M
(Logo)
Berry, Huff, McDonald, Milligan, Inc.
 Engineers, Surveyors
 28 State Street
 Portland, Maine 04108
 Tel: (207) 859-2772
 Fax: (207) 859-8250

for
 Craig Holman
 125 Middle Street
 Portland, Maine 04103

EXISTING CONDITIONS
 PLAN
 LAND OF
EUGENIA COUGHLIN & DONALD RICHIO
 33 RANDALL STREET
 PORTLAND, MAINE

DESIGNED R. Libby, Jr.	DATE Sep 2011
DRAWN R. Libby, Jr.	SCALE 1" = 20'
CHECKED L. Berry	JOB NO. 11075

SHEET
2

REPRODUCTION OR USE OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF B-H-M IS PROHIBITED

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE "WATER EROSION AND SEDIMENT CONTROL BMP'S" DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH 2003. FOR ADDITIONAL DETAILS AND SPECIFICATIONS SEE BMP'S MANUAL.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "WATER EROSION AND SEDIMENT CONTROL BMP'S", DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MARCH 2003.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 7 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
3. SEDIMENT BARRIERS (EROSION CONTROL MAT, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCE, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONSTRUCTION DRAINAGE AREA ABOVE THEM.
4. INSTALL EROSION CONTROL MAT AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE E.C. MAT DETAIL FOR PROPER INSTALLATION. EROSION CONTROL MAT WILL REMAIN IN PLACE PER NOTE #3.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY BEFORE AND FOLLOWING ANY SIGNIFICANT RAINFALL (0.5 INCHES) OR SNOW MELT OR WHEN NO LONGER SEPARABLE DUE TO SEDIMENT ACCUMULATION OR DISCOMFORT. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY PLANT. EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION. PERMANENT STABILIZATION IS SUE GRASS CATCH IN VEGETATED AREAS.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2 TO 1).
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY SEEDING (DOMINANT SEEDS AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED BY AUG. 15 OR 45 DAYS PRIOR TO THE FIRST KILLING FROST (OCT. 1) TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEEDING, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
10. VEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SHOVED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - a. FOUR INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - b. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHEN TIME IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1000 SQUARE FEET USING 10-20-20 (N-P-K) OR EQUIVALENT APPLIED GRANULAR LIME (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM INDEX) AT A RATE OF 3 TONS PER ACRE (38 LB PER 1000 SQ. FT.).
 - c. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREeping PERennial, 5%N REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PERENNIAL TURF MIXTURE OF 44% REDTOP, 44% CREEPING PERennial, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 103 LBS PER 1000 SQ. FT. LAWN QUALITY SOO MAY BE SUBSTITUTED FOR SEED. SEED WILL CONTAIN 1% ANNUAL RYE GRASS.
 - d. HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO-APPLICATION OF ASPHALT, WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RUB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER THE SITE IS STABILIZED WITH SUE GRASS CATCH IN VEGETATED AREAS AND SEDIMENT CONTROL BARRIERS SHALL BE USED IN ALL DITCHES AND SLOPES AS SHOWN IN DETAILS.
12. WETLANDS WILL BE PROTECTED WITH EROSION CONTROL MAT OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.

MULCH AND MULCH ANCHORING

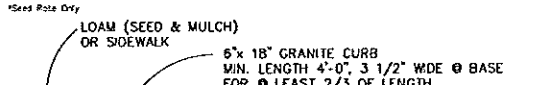
LOCATION	MULCH	RATE (1000 SQ. FT.)
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	SHREDDED OR CHOPPED STRAW OR HAY (ANCHORED) †	125-275 POUNDS
WOODPILE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN OR EQUAL TO 3:1)	JUTE MESH OR POLYPROPYLENE MAT (GREATER THAN OR EQUAL TO 3:1)	AS REQUIRED

* A HYDRO-APPLICATION OF ASPHALT, WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RUB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

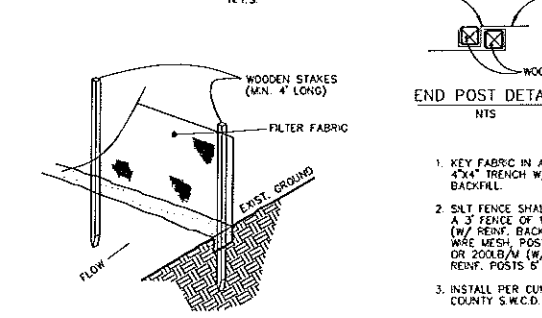
ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD./BLOCK); MULCH NETTING (AS PER MANUFACTURER); ASPHALT EMULSION (10% GALLONS PER 50 YD. LIQUID ASPHALT (10% GALLONS PER 50 YD.); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER SPECIFICATIONS); USE OF A SEPARATED STRAIGHT JACK. NETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

Additional temporary seed mixture (for periods less than 12 months)

Season	Seed	Rate
Summer (5/15 - 8/15)	Subgrass	45 lbs/acre
Late Summer/Early Fall (8/15 - 9/15)	Perennial Ryegrass	40 lbs/acre
Fall (9/15 - 11/1)	Winter Rye	112 lbs/acre
Winter (11/1 - 4/1)	Witch w/ Dominant Seed	80 lbs/acre
Spring (4/1 - 7/1)	Annual Ryegrass	80 lbs/acre



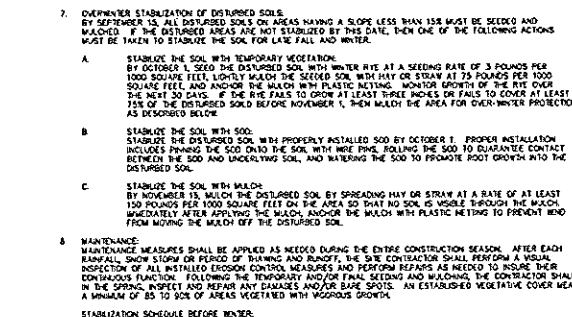
VERTICAL GRANITE CURB DETAIL
N.T.S.



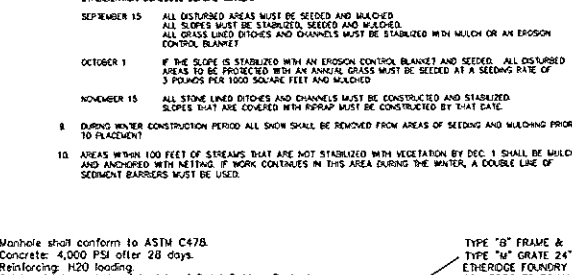
SILT FENCE DETAIL
N.T.S.

EROSION CONTROL DURING CONSTRUCTION

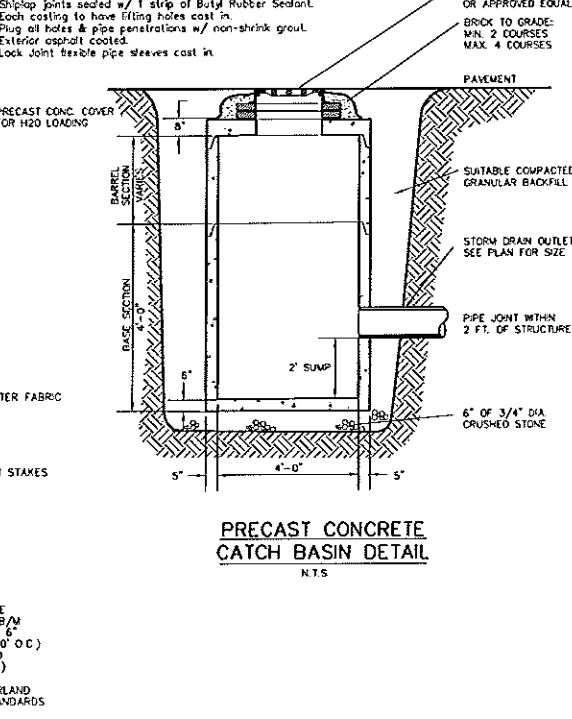
- WINTER CONSTRUCTION**
1. WINTER CONSTRUCTION PERIOD: OCTOBER 1 THROUGH APRIL 15
 2. WINTER EXCAVATION AND EARTHWORK SHOULD BE DONE SUCH THAT NO MORE THAN 1 ACRES OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
 3. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MAINTAINED IN ONE DAY PRIOR TO ANY SNOW EVENT.
 4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO MORE THAN ONE ACRE OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION.
 5. OVERWINTER STABILIZATION OF DISTURBED AREAS AND CHANNELS:
 - A. ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL GRASS LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A DITCH OR CHANNEL IS NOT GRASSLINED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.
 - A. INSTALL A SOO LAMP IN THE DITCH. A DITCH MUST BE LINED WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES FINISHING THE SOO ONTO THE SOIL WITH WIRE PINS, HOLDING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING SOO AT THE BASE OF THE DITCH WITH LUTE OR PLASTIC MESH TO PREVENT THE SOO FROM BLOWING DURING FLOW CONDITIONS. SEE THE PERMANENT VEGETATION BMP SECTION.
 - B. INSTALL A STONE LINING IN THE DITCH. BY NOVEMBER 15, A REGISTERED PROFESSIONAL ENGINEER MUST BE HIRED TO DETERMINE THE STONE SIZE AND LAYING TECHNIQUE NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE CONTRACTOR WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.
 - C. OVERWINTER STABILIZATION OF DISTURBED SLOPES. ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL SLOPES TO BE VEGETATED MUST BE SEED AND MULCHED BY SEPTEMBER 1. THE CONTRACTOR WILL MAINTAIN A GRADE GREATER THAN 1:15 TO BE A SLOPE. IF A SLOPE IS NOT STABILIZED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.
 - a. SEED THE SLOPE WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS. BY OCTOBER 1 THE DISTURBED SLOPE MUST BE SEED WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND THEN INSTALL EROSION CONTROL MATS OR ANCHORED MULCH OVER THE SEEDING. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MAT OR WITH STONE RIPPAP AS DESCRIBED IN THE FOLLOWING STANDARDS.
 - b. STABILIZE THE SOIL WITH SOO. THE DISTURBED SOIL MUST BE STABILIZED WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES FINISHING THE SOO ONTO THE SOIL WITH WIRE PINS, HOLDING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING SOO AT THE BASE OF THE DITCH WITH LUTE OR PLASTIC MESH TO PREVENT THE SOO FROM BLOWING DURING FLOW CONDITIONS. SEE THE PERMANENT VEGETATION BMP SECTION.
 - c. STABILIZE THE SOIL WITH EROSION CONTROL MAT. EROSION CONTROL MAT MUST BE PROPERLY INSTALLED BY NOVEMBER 15. THE CONTRACTOR WILL NOT ALLOW THE SOO TO BE REMOVED FROM THE SLOPE UNTIL THE SOO IS PROPERLY ANCHORED WITH WIRE PINS OR CHAIN-ANCHOR SEEPS ON THE SLOPE FACE. SEE THE TEMPORARY VEGETATION BMP SECTION.
 - d. STABILIZE THE SOIL WITH STONE RIPPAP. PLACE A LAYER OF STONE RIPPAP ON THE SLOPE BY NOVEMBER 15. THE DEVELOPMENTS OWNERS WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPPAP. SEE THE RIPPAP SLOPE STABILIZATION BMP SECTION.
 6. DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
 7. AREAS WITHIN 100 FEET OF STREAMS THAT ARE NOT STABILIZED WITH VEGETATION BY DEC. 1 SHALL BE MULCHED AND ANCHORED WITH NETTING 7" WIDE STRIPS CONTAINING 1/2" DIA. WIRE. A DOUBLE LAYER OF SEDIMENT BARRIERS MUST BE USED.



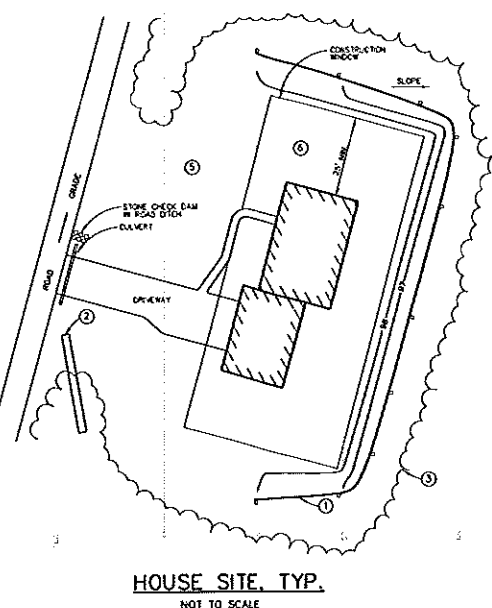
PRECAST CONCRETE CATCH BASIN DETAIL
N.T.S.



TRENCH DETAIL
N.T.S.



TRENCH PATCH
N.T.S.

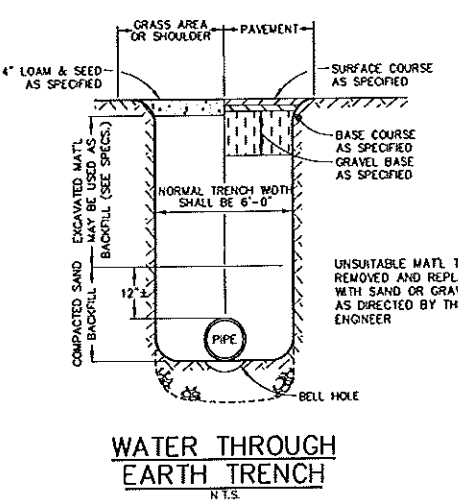


HOUSE SITE TYP.
NOT TO SCALE

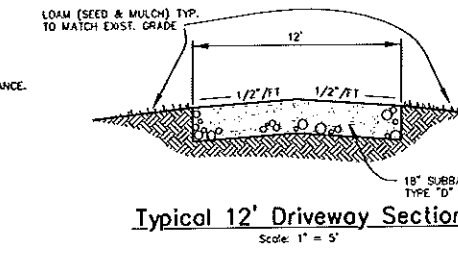
- INSTALLATION**
1. INSTALL SEDIMENT BARRIERS ON YOUR SITE BEFORE DISTURBING SOILS. SEE THE "SEDIMENT BARRIERS" MEASURE FOR DETAILS ON INSTALLATION AND MAINTENANCE.
 2. CONSTRUCT A DIVERSION DITCH TO KEEP UPSLOPE RUNOFF OUT OF WORK AREA.
 3. MARK CLEARING LIMITS ON THE SITE TO KEEP EQUIPMENT OUT OF AREAS WITH STEEP SLOPES, CHANNELIZED FLOW, OR ADJACENT SURFACE WATERS AND WETLANDS.
 4. PRESERVE BUFFERS BETWEEN THE WORK AREA AND ANY DOWNSTREAM SURFACE WATERS AND WETLANDS. SEE THE "BUFFERS" MEASURE FOR BUFFER PRESERVATION.
 5. USE TEMPORARY MULCH AND RYE-SEED TO PROTECT DISTURBED SOILS OUTSIDE THE ACTIVE CONSTRUCTION AREA. SEE THE "MULCHING" MEASURE AND "VEGETATION" MEASURE FOR DETAILS AND SPECIFICATIONS FOR THESE CONTROLS.
 6. PERMANENTLY SEED AREAS NOT TO BE PAVED WITHIN SEVEN DAYS OF COMPLETING FINAL GRADING. SEE "VEGETATION" MEASURE FOR INFORMATION ON PROPER SEEDING.

MAINTENANCE

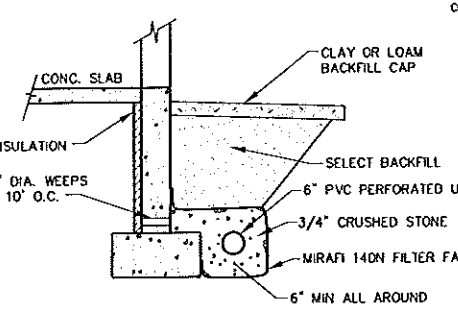
- EVERY MONTH THE FIRST YEAR AFTER CONSTRUCTION AND YEARLY THEREAFTER, INSPECT FOR AREAS SHOWING EROSION OR POOR VEGETATION GROWTH. FIX THESE PROBLEMS AS SOON AS POSSIBLE. EACH SPRING REMOVE ANY ACCUMULATION OF DEBRIS OR WINTER SAND THAT WOULD IMPEDE RUNOFF FROM ENTERING A BUFFER OR DITCH.
1. Trench width shown is payment width for rockexcavation & replacement of unsuitable material.
 2. Do not mechanically compact directly over flexible pipe (e.g. PVC, Polyethylene).
 3. Concrete pipe shall have sand bedding.
 4. Perforations along invert required on storm drain pipes per AASHTO standards.



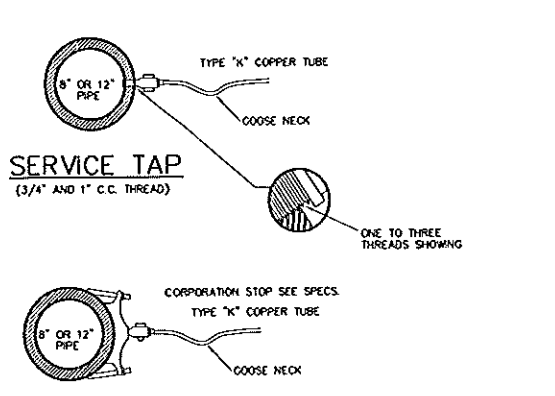
WATER THROUGH EARTH TRENCH
N.T.S.



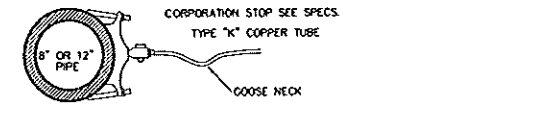
Typical 12' Driveway Section
Scale: 1" = 5"



FOUNDATION DRAIN DETAIL
N.T.S.

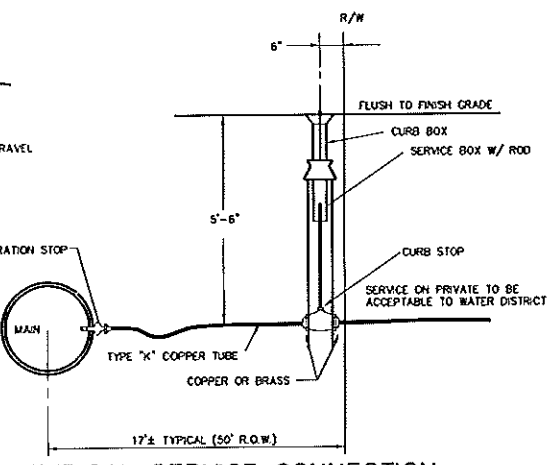


SERVICE TAP
(3/4" AND 1" C.C. THREAD)

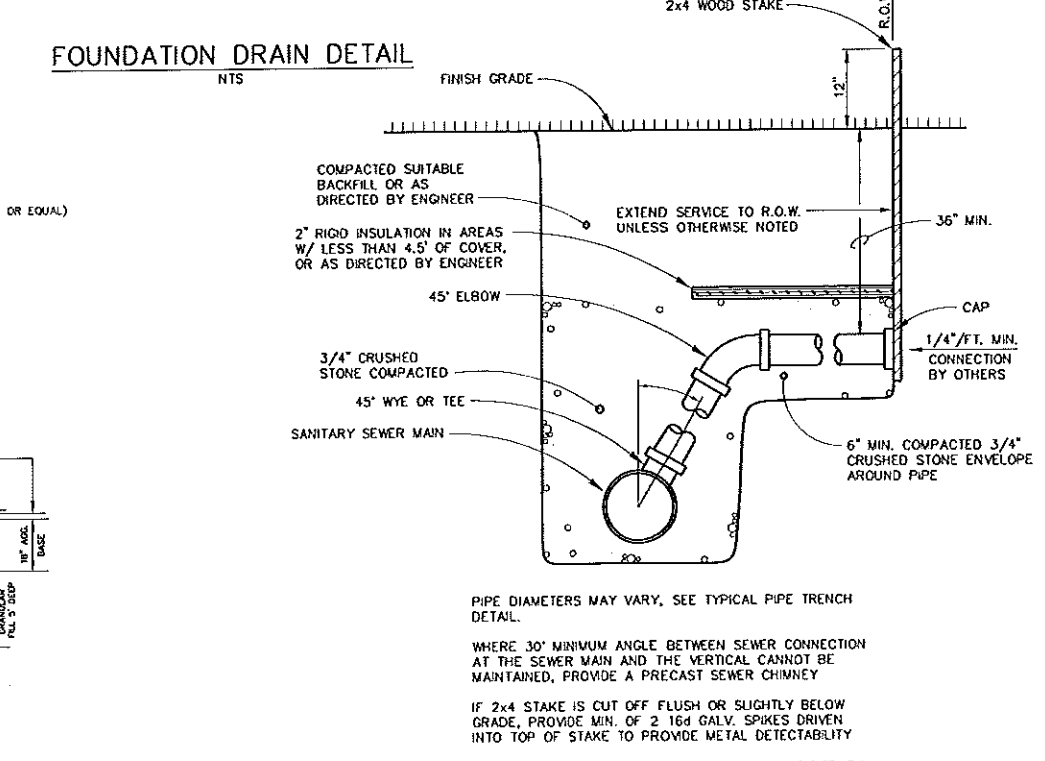


SERVICE SADDLE
(1-1/2" & 2" C.C. OR IRON PIPE THREAD)

NOTE: SERVICE CONNECTIONS (DIRECT TAPS AND SERVICE CLAMPS) WILL BE INSTALLED SO THAT THE OUTLET IS AT AN ANGLE OF NOT MORE THAN 45° ABOVE THE HORIZONTAL. ALWAYS PUT A BEND OR "GOOSENECK" IN THE SERVICE LINE PRIOR TO CONNECTING TO PROVIDE FLEXIBILITY AND "GIVE" TO COUNTERACT THE EFFECTS OF A LOAD DUE TO SETTLEMENT OR EXPANSION AND/OR CONTRACTION (SEE DETAILS).



TYPICAL SERVICE CONNECTION
N.T.S.



HORIZONTAL SEWER CONNECTION
N.T.S.

PIPE DIAMETERS MAY VARY. SEE TYPICAL PIPE TRENCH DETAIL.
WHERE 30° MINIMUM ANGLE BETWEEN SEWER CONNECTION AT THE SEWER MAIN AND THE VERTICAL CANNOT BE MAINTAINED, PROVIDE A PRECAST SEWER CHIMNEY

IF 2x4 STAKE IS CUT OFF FLUSH OR SLIGHTLY BELOW GRADE, PROVIDE MIN. OF 2 1/2 GALV. SPIKES DRIVEN INTO TOP OF STAKE TO PROVIDE METAL DETECTABILITY

NO.	DATE	REVISION DESCRIPTION

BH2M
Berry, Huff, MacDonald, Milligan, Inc.
Engineers, Surveyors
26 State Street
Concord, Maine 04088
Tel: (207) 859-0771
Fax: (207) 859-9250

For:
Craig Holman
123 Million Street
Portland, Maine 04103

DETAILS
LAND OF
EUGENIA COUGHLIN & DONALD RICHTO
33 RANDALL STREET
PORTLAND, MAINE

DESIGNED	R. Libby, Jr.	DATE	Sept. 2011
DRAWN	R. Libby, Jr.	SCALE	N.T.S.
CHECKED	L. Berry	JOB. NO.	11075

\\server\CAD\2011\1075\dwg\Details.dwg, 10/7/2011 09:56:50 AM