OWNER: DOUBLE EAGLE PROPERTIES, LLC
PO BOX 737
AUBURN, ME 04212

SURVEYOR: ROWE & WENDELL
179 MAIN STREET
WATERVILLE, MAINE 04901

ENGINEER: DIRIGO ENGINEERING
2 DIRIGO DRIVE
FAIRFIELD, ME 04937

MAGNETIC NORTH NOVEMBER 1991

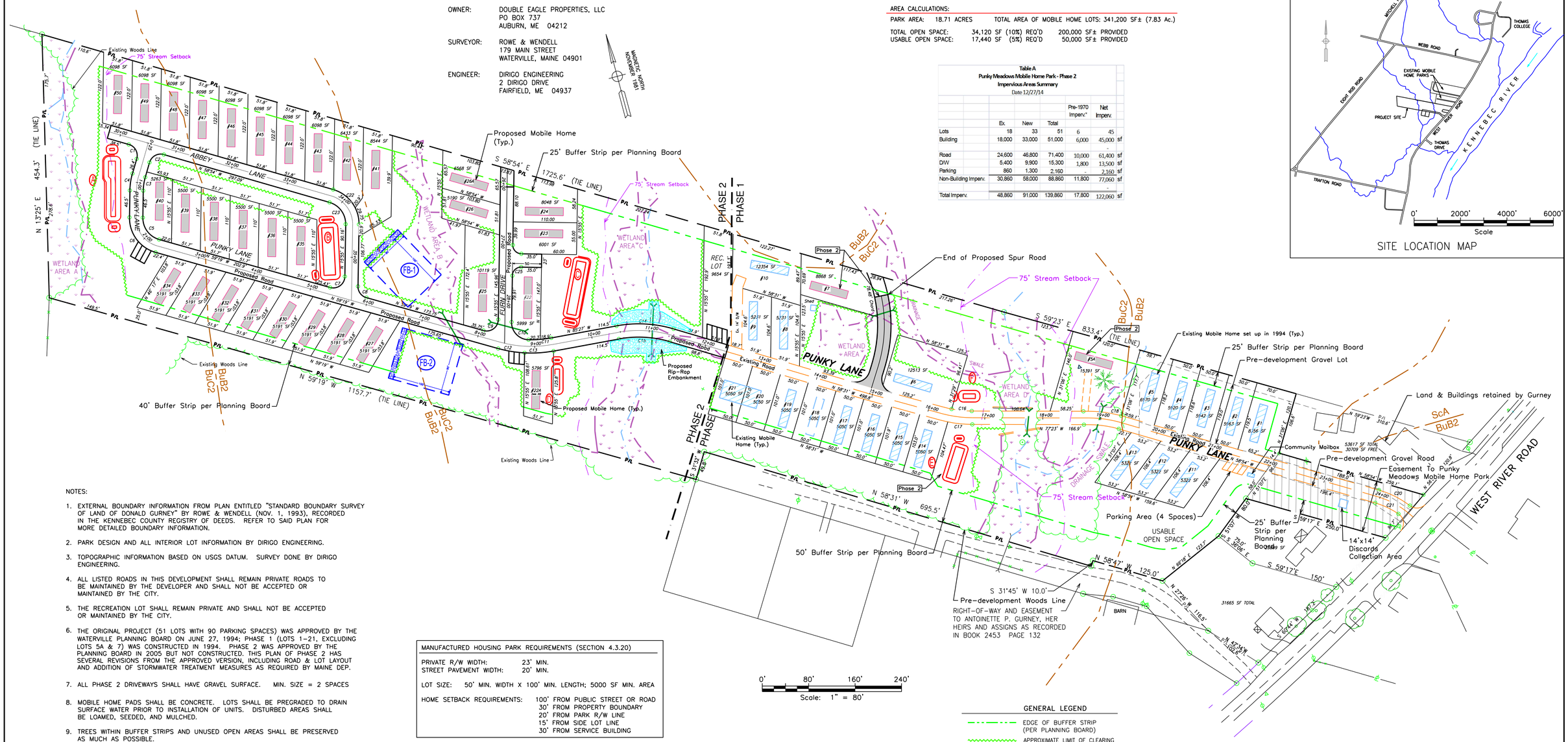
AREA CALCULATIONS:

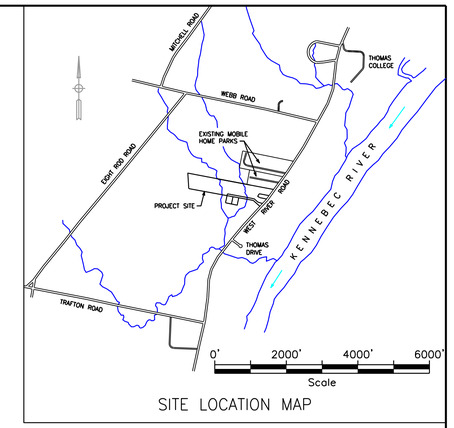
PARK AREA: 18.71 ACRES TOTAL AREA OF MOBILE HOME LOTS: 341,200 SF± (7.83 Ac.)

TOTAL OPEN SPACE: 34,120 SF (10%) REQ'D 200,000 SF± PROVIDED
USABLE OPEN SPACE: 17,440 SF (5%) REQ'D 50,000 SF± PROVIDED

Table A
Punky Meadows Mobile Home Park - Phase 2
Impervious Areas Summary
Date 12/27/14

	Ex.	New	Total	Pre-1970 Imperv.*	Net Imperv.	
Lots	18	33	51	6	45	
Building	18,000	33,000	51,000	6,000	45,000	sf
Road	24,600	46,800	71,400	10,000	61,400	sf
D/W	5,400	9,900	15,300	1,800	13,500	sf
Parking	860	1,300	2,160		2,160	sf
Non-Building Imperv.	30,860	58,000	88,860	11,800	77,060	sf
Total Imperv.	48,860	91,000	139,860	17,800	122,060	sf





SITE LOCATION MAP

NOTES:

1. EXTERNAL BOUNDARY INFORMATION FROM PLAN ENTITLED "STANDARD BOUNDARY SURVEY OF LAND OF DONALD GURNEY" BY ROWE & WENDELL (NOV. 1, 1993), RECORDED IN THE KENNEBEC COUNTY REGISTRY OF DEEDS. REFER TO SAID PLAN FOR MORE DETAILED BOUNDARY INFORMATION.
2. PARK DESIGN AND ALL INTERIOR LOT INFORMATION BY DIRIGO ENGINEERING.
3. TOPOGRAPHIC INFORMATION BASED ON USGS DATUM. SURVEY DONE BY DIRIGO ENGINEERING.
4. ALL LISTED ROADS IN THIS DEVELOPMENT SHALL REMAIN PRIVATE ROADS TO BE MAINTAINED BY THE DEVELOPER AND SHALL NOT BE ACCEPTED OR MAINTAINED BY THE CITY.
5. THE RECREATION LOT SHALL REMAIN PRIVATE AND SHALL NOT BE ACCEPTED OR MAINTAINED BY THE CITY.
6. THE ORIGINAL PROJECT (51 LOTS WITH 90 PARKING SPACES) WAS APPROVED BY THE WATERVILLE PLANNING BOARD ON JUNE 27, 1994; PHASE 1 (LOTS 1–21, EXCLUDING LOTS 5A & 7) WAS CONSTRUCTED IN 1994. PHASE 2 WAS APPROVED BY THE PLANNING BOARD IN 2005 BUT NOT CONSTRUCTED. THIS PLAN OF PHASE 2 HAS SEVERAL REVISIONS FROM THE APPROVED VERSION, INCLUDING ROAD & LOT LAYOUT AND ADDITION OF STORMWATER TREATMENT MEASURES AS REQUIRED BY MAINE DEP.
7. ALL PHASE 2 DRIVEWAYS SHALL HAVE GRAVEL SURFACE. MIN. SIZE = 2 SPACES
8. MOBILE HOME PADS SHALL BE CONCRETE. LOTS SHALL BE PREGRADED TO DRAIN SURFACE WATER PRIOR TO INSTALLATION OF UNITS. DISTURBED AREAS SHALL BE LOAMED, SEEDED, AND MULCHED.
9. TREES WITHIN BUFFER STRIPS AND UNUSED OPEN AREAS SHALL BE PRESERVED AS MUCH AS POSSIBLE.
10. AN EASEMENT HAS BEEN GRANTED TO THE CITY OF WATERVILLE FOR PICKUP OF HOUSEHOLD DISCARDS AT THE DISCARD COLLECTION AREA.
11. WAIVERS HAVE BEEN GRANTED BY THE PLANNING BOARD FOR THE FOLLOWING:
    MAX. LENGTH OF DEAD END ROAD (1000' MAX): WAIVER TO 2000'
    MAXIMUM SIDE SLOPE (3:1 REQ'D): WAIVER TO 1.5:1 W/ GUARDRAIL AT STA. 11+00
    WAIVER PER GABION DETAIL AT 17+50 PUNKY LANE
12. AN EASEMENT HAS BEEN GRANTED TO PUNKY MEADOWS MOBILE HOME PARK BY DONALD J. GURNEY INC. FOR THE ROADWAY TO THE PARK, UNDERGROUND UTILITIES, OVERHEAD UTILITIES, LANDSCAPING, AND HOUSEHOLD DISCARDS AREA.
13. A WAIVER HAS BEEN GRANTED BY THE PLANNING BOARD FOR THE FOLLOWING: MINIMUM NUMBER OF STREET CONNECTIONS FOR A SUBDIVISION (OR A STREET WITHIN THAT SUBDIVISION) SERVING MORE THAN 21 UNITS (2 CONNECTIONS REQ'D): WAIVER TO 1 STREET CONNECTION
14. A SPECIAL EXCEPTION PERMIT WAS GRANTED BY THE WATERVILLE ZONING BOARD ON JULY 27, 1994.
15. A STORMWATER MANAGEMENT PERMIT (FROM MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION) IS REQUIRED FOR PHASE 2.
16. A NATURAL RESOURCES PROTECTION PERMIT (FROM MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION) IS REQUIRED FOR DISTURBANCE OF WETLANDS. (THE ORIGINAL PERMITS FROM THE ARMY CORPS OF ENGINEERS HAVE EXPIRED.)
17. MAINTAIN 75' HORIZONTAL SETBACK FROM INTERMITTENT STREAMS, EXCEPT FOR ROAD CROSSINGS AND AS APPROVED BY NRPA PERMIT.

MANUFACTURED HOUSING PARK REQUIREMENTS (SECTION 4.3.20)	
PRIVATE R/W WIDTH:	23' MIN.
STREET PAVEMENT WIDTH:	20' MIN.
LOT SIZE:	50' MIN. WIDTH X 100' MIN. LENGTH; 5000 SF MIN. AREA
HOME SETBACK REQUIREMENTS:	100' FROM PUBLIC STREET OR ROAD 30' FROM PROPERTY BOUNDARY 20' FROM PARK R/W LINE 15' FROM SIDE LOT LINE 30' FROM SERVICE BUILDING

GENERAL LEGEND

- EDGE OF BUFFER STRIP (PER PLANNING BOARD)
- APPROXIMATE LIMIT OF CLEARING
- ORIGINAL WOODS LINE
- WETLAND AREA
- PROPOSED WETLAND DISTURBANCE
- INTERMITTENT STREAM
- PHASE 1 – SET UP 1994 } MOBILE HOME UNITS
- PHASE 1 – NOT SET UP } MOBILE HOME UNITS
- PHASE 2 } MOBILE HOME UNITS
- SURVEY STATION
- BENCHMARK
- UTILITY POLE
- P/L — PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- EXISTING DITCH/SWALE
- TOP/BOTTOM OF BANK OR EDGE OF TRAVEL LANE
- PROPOSED CULVERT
- PROPOSED UNDERDRAINED SOIL FILTER
- FB-1 PROPOSED FORESTED BUFFER (FOR STORMWATER TREATMENT)
- BuB2 SOIL BOUNDARY & TYPE

Note: On the Original Full-Scale Drawing, this dimension is 6"

SOIL LEGEND		H.S.G.
BuB2	Buxton Silt Loam, 3-8% slopes, eroded	C
BuC2	Buxton Silt Loam, 8-15% slopes, eroded	C
ScA	Scantic Silt Loam, 0-3% slopes	C

Soils information taken from USDA Kennebec County Medium Intensity soil survey. Boundaries are approximate.

FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTTS
REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	1/13/15
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

OVERALL PARK PLAN

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET 1 OF 1

Notes:

1. Water Main shall be CL-52 DI Pipe.

   The Sewer Main from MH-4 to MH-5 shall be AWWA C-900 CL-150 PVC Pipe. Services in this run shall be made with 4" C-900 CL-150 PVC to 6' Below Grade, a Coupling, then 4" SDR-35 PVC to the home per the Sewer Service Detail. (Bed pipes per PVC Trench Detail.)

   All other Sewer Main and Services shall be SDR-35 PVC.

   Force Main shall be CL-50 DI Pipe.

2. Provide 18" of Vertical Clearance between Water Mains and all Culvert Crossings. Install Trench Insulation at all Culvert Crossings. Provide 10' min. edge to edge separation between new Water Main & Sewer Main/Force Main.

3. All Water Main pipe and appurtenances including, but not limited to, hydrants, valves, fittings, MJ restrainers, etc. shall comply with Kennebec Water District Specifications.

4. All MJ Fittings and Connections shall use MJ Restrainers. MJ Fittings shall be Ductile Iron, Class 350 Compact Fittings.

5. All Brass Fittings shall be made by Ford, Mueller, or McDonald.

6. All Fill material shall be placed and Compacted in 12" Lifts.

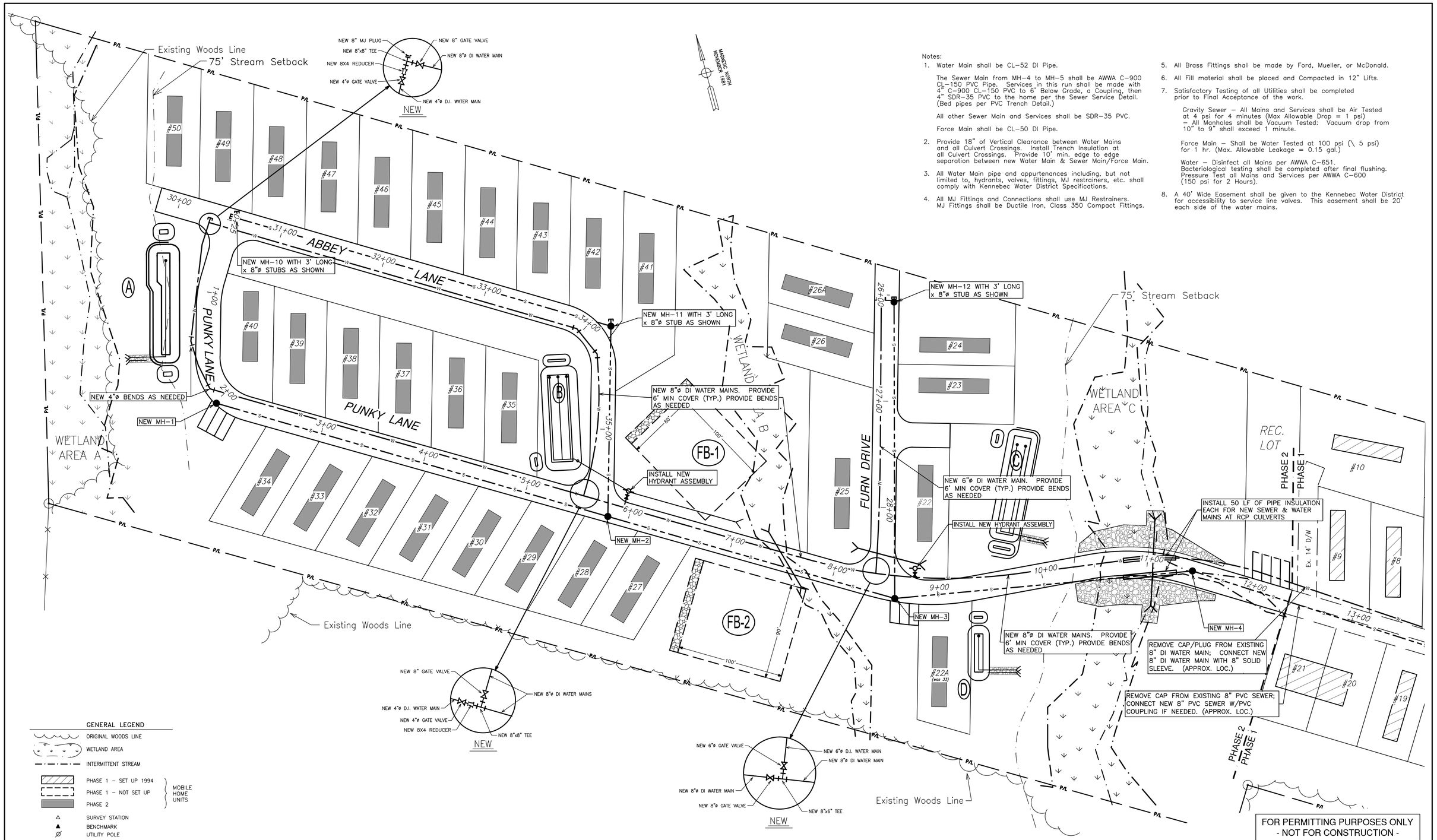
7. Satisfactory Testing of all Utilities shall be completed prior to Final Acceptance of the work.

   Gravity Sewer – All Mains and Services shall be Air Tested at 4 psi for 4 minutes (Max Allowable Drop = 1 psi) – All Manholes shall be Vacuum Tested: Vacuum drop from 10" to 9" shall exceed 1 minute.

   Force Main – Shall be Water Tested at 100 psi (\ 5 psi) for 1 hr. (Max. Allowable Leakage = 0.15 gal.)

   Water – Disinfect all Mains per AWWA C-651. Bacteriological testing shall be completed after final flushing. Pressure Test all Mains and Services per AWWA C-600 (150 psi for 2 Hours).

8. A 40' Wide Easement shall be given to the Kennebec Water District for accessibility to service line valves. This easement shall be 20' each side of the water mains.



FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

GENERAL LEGEND

- ORIGINAL WOODS LINE
- WETLAND AREA
- INTERMITTENT STREAM
- PHASE 1 – SET UP 1994 (MOBILE HOME UNITS)
- PHASE 1 – NOT SET UP (MOBILE HOME UNITS)
- PHASE 2 (MOBILE HOME UNITS)
- SURVEY STATION
- BENCHMARK
- UTILITY POLE
- P/L — PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- EXISTING DITCH/SWALE
- TOP/BOTTOM OF BANK OR EDGE OF TRAVEL LANE
- PROPOSED CULVERT
- PROPOSED UNDERDRAINED SOIL FILTER
- FB-1 PROPOSED FORESTED BUFFER (FOR STORMWATER TREATMENT)

Note: On the Original Full-Scale Drawing, this dimension is 6"

NO.	REVISIONS	DATE

STATE OF MAINE — RANDY J. RUTH — 13986 — REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	1/13/15
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

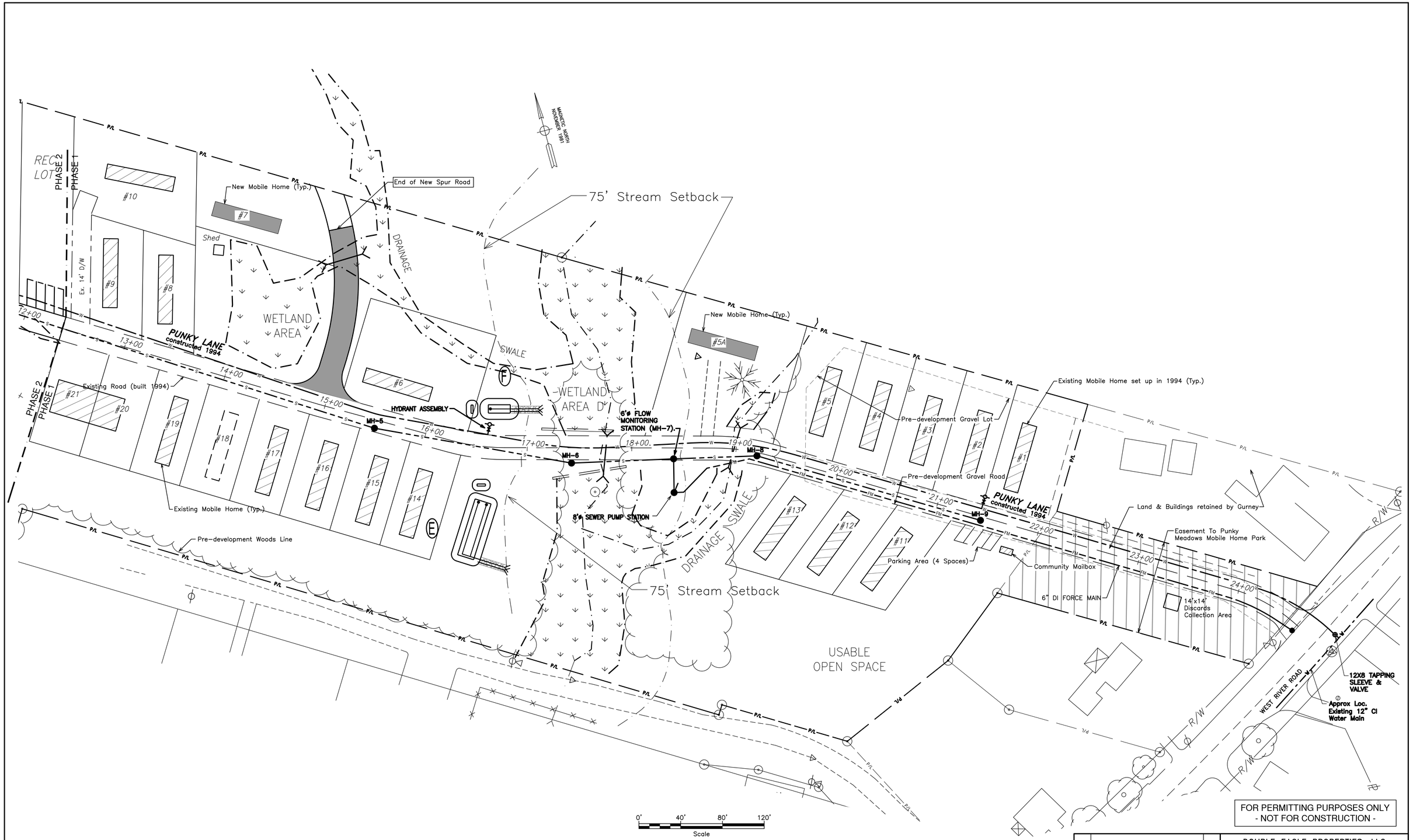
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

WEST PARK WATER & SEWER PLAN

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET UTILITY 1 OF 4



FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

NOTE: THIS PLAN IS FOR REFERENCE ONLY; ROAD & SEWER WERE CONSTRUCTED IN 1994. LOCATIONS ARE AS DESIGNED, AS-BUILT INFORMATION NOT AVAILABLE.

Note: On the Original Full-Scale Drawing, this dimension is 6"

NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTTERFIELD
REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	1/13/15
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

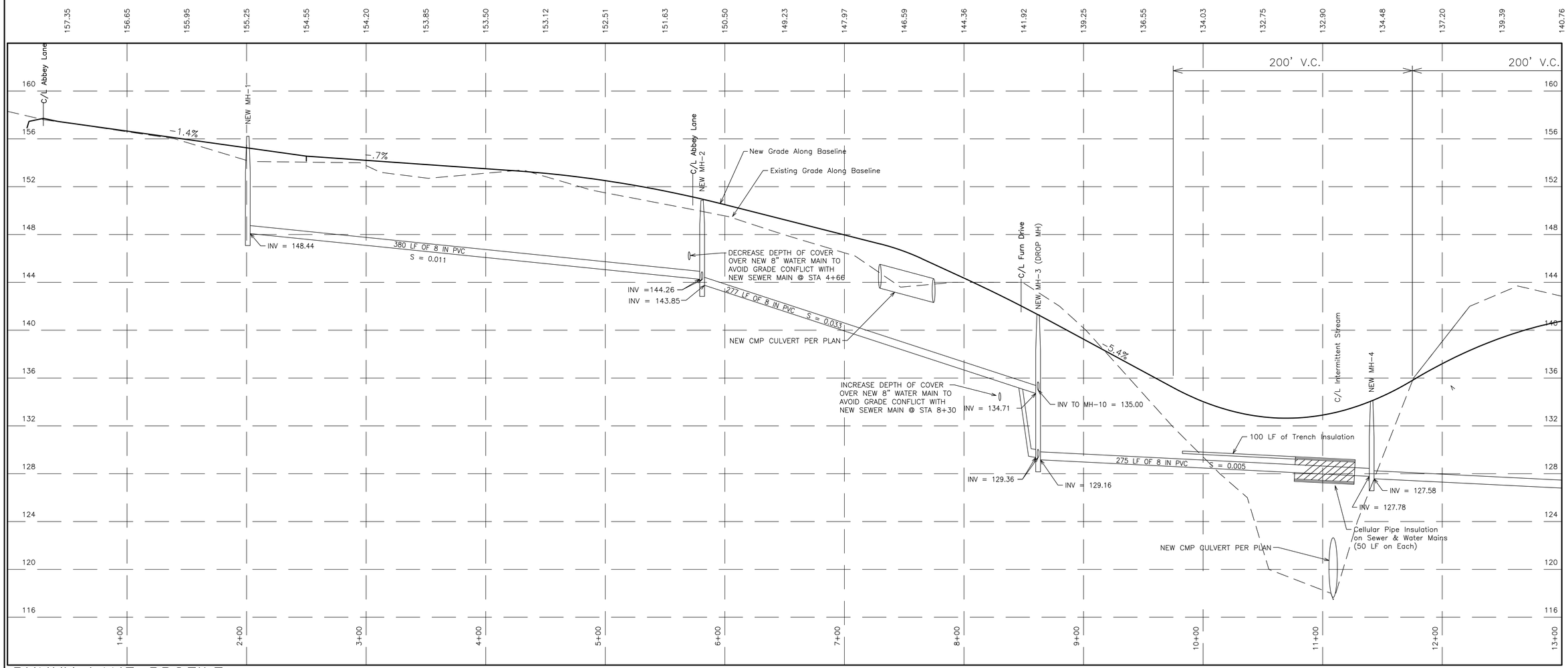
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

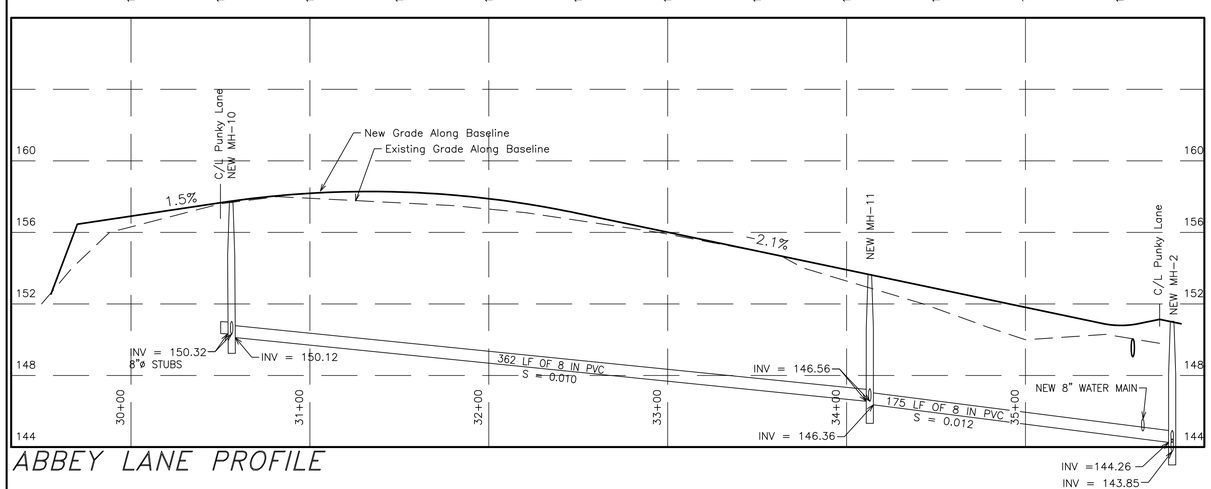
EAST PARK WATER & SEWER PLAN

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

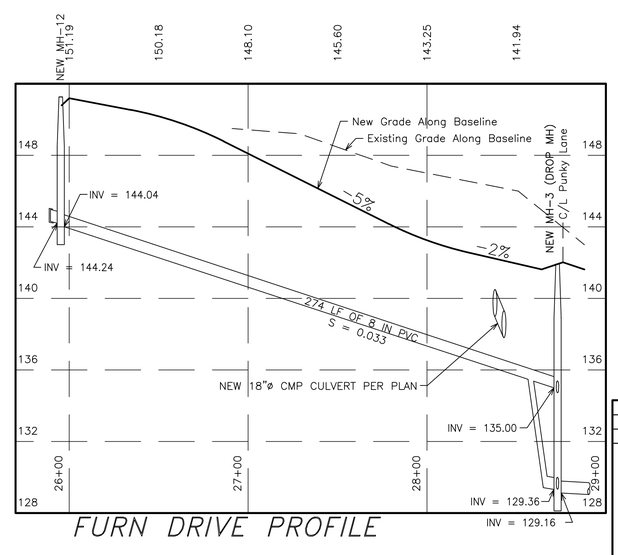
SHEET UTILITY 2 OF 4



PUNKY LANE PROFILE



ABBEY LANE PROFILE



FURN DRIVE PROFILE

Note: On the Original Full-Scale Drawing, this dimension is 6"

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- NOT FOR CONSTRUCTION -

NO.	REVISIONS	DATE

STATE OF MAINE — RANDY J. BUTLER — 7896 — REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	1/13/15
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE:	A PM 2014
PROJECT:	#44401

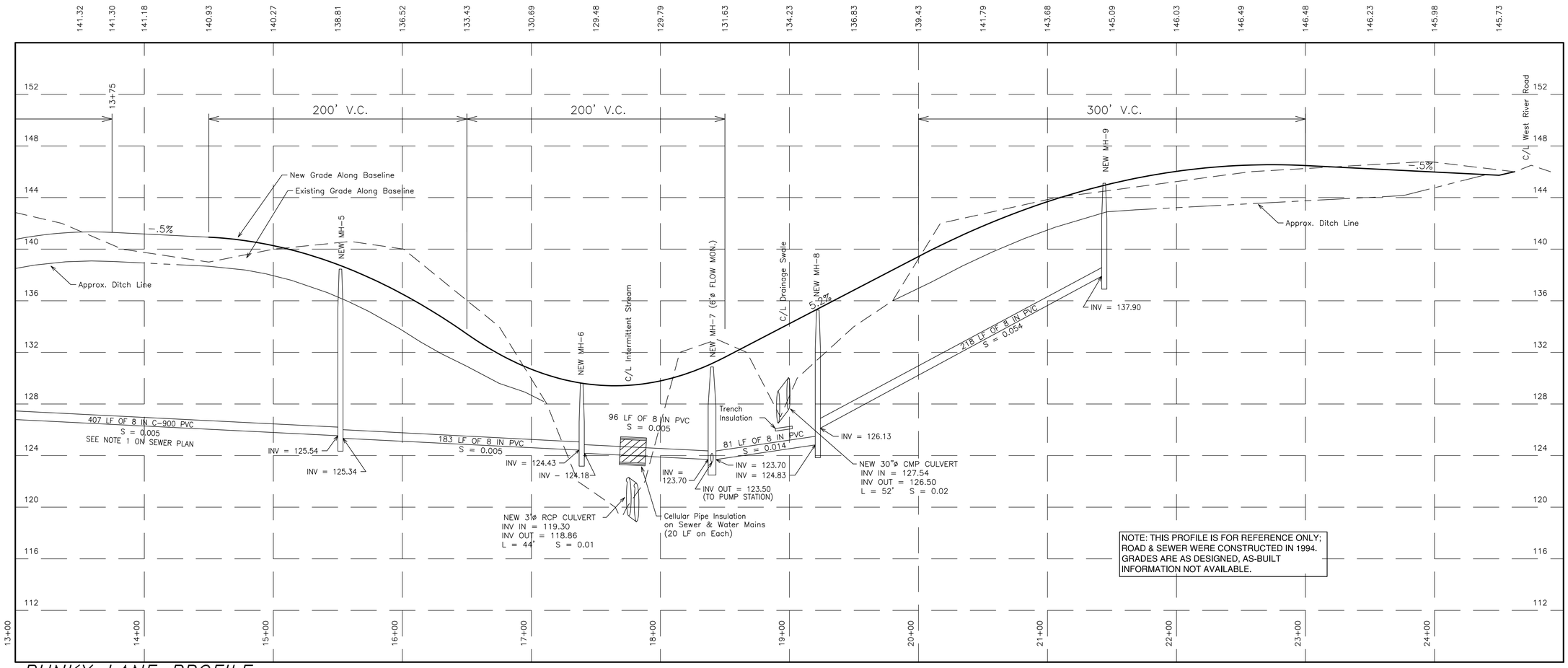
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

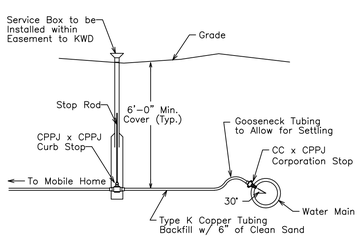
WEST ROAD & SEWER PROFILES

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET UTILITY 3 OF 4

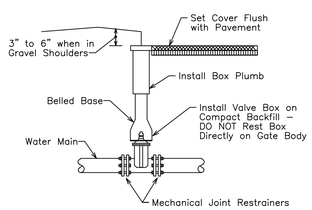


PUNKY LANE PROFILE



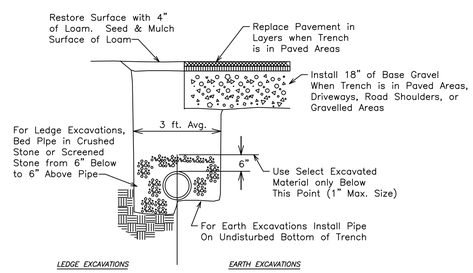
WATER SERVICE DETAIL

NOT TO SCALE



TYPICAL VALVE DETAIL

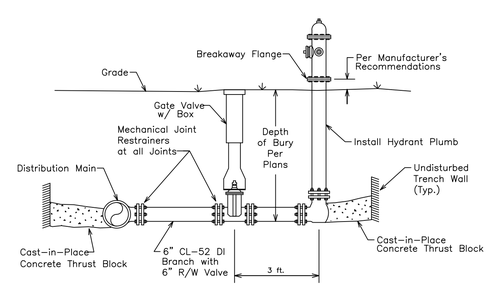
NOT TO SCALE



DUCTILE IRON TRENCH DETAIL

NOT TO SCALE

Note:
This Detail shall be used for the DI Water Main and the DI Force Main

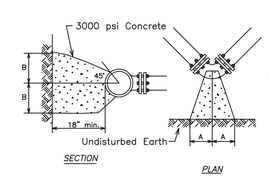


TYPICAL HYDRANT ASSEMBLY

NOT TO SCALE

Notes: 1. Thrust Blocks shall be installed to support all hyrants, tees, tapping sleeves, all bends, plugs, and caps, etc.

2. Polyethylene Sheeting (4 mil min. thickness) shall be installed between the thrust block and fitting.



MINIMUM THRUST BLOCK DIMENSIONS

	FITTING	A"	B"
DIA = 8"	Dead End/Tee	12	10
	90° Bend	16	12
	45/22.5° Bend	12	10
DIA = 10" & 12"	Dead End/Tee	18	16
	90° Bend	20	18
	45/22.5° Bend	18	16

Double Dimensions When in Soft Clay

THRUST BLOCK DETAILS

NOT TO SCALE

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Note: On the Original Full-Scale Drawing, this dimension is 6"

NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTLER
7969
REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	12/30/14
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

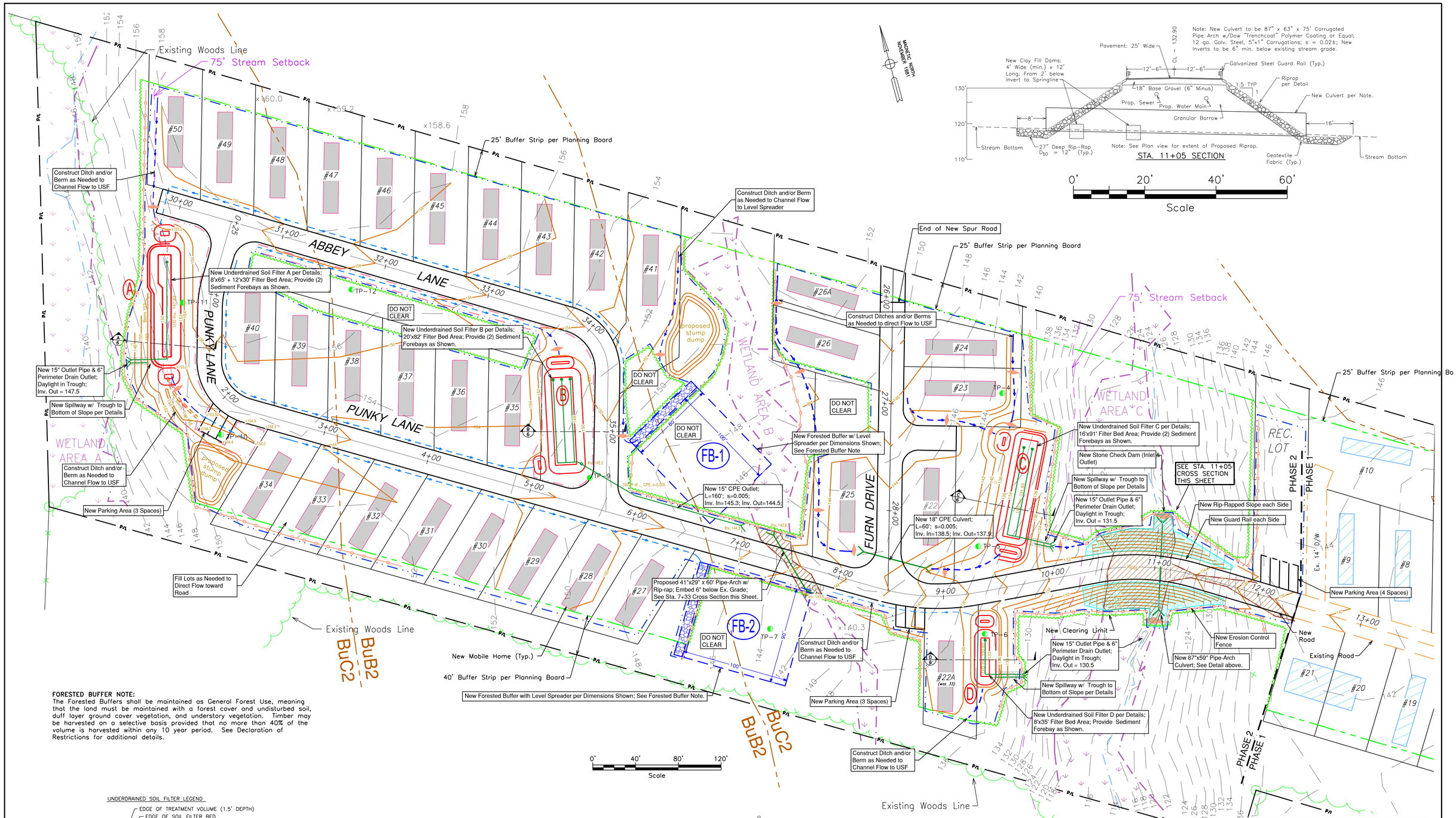
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

EAST ROAD & SEWER PROFILES & DETAILS

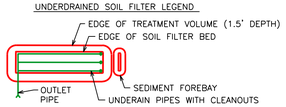
DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET UTILITY 4 OF 4

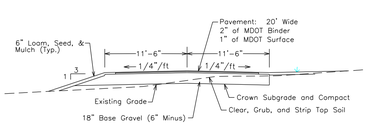


FORESTED BUFFER NOTE:
The Forested Buffers shall be maintained as General Forest Use, meaning that the land must be maintained with a forest cover and undisturbed soil, duff layer ground cover vegetation, and understory vegetation. Timber may be harvested on a selective basis provided that no more than 40% of the volume is harvested within any 10 year period. See Declaration of Restrictions for additional details.

UNDERDRAINED SOIL FILTER LEGEND

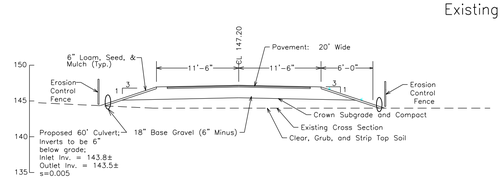


NOTE: FOR CLARITY, PERIMETER UNDERDRAIN PIPE IS NOT SHOWN. INSTALL PER DETAILS.



TYPICAL ROAD CROSS SECTION

0' 10' 20' 30'
Scale



STA. 7+33 SECTION

0' 10' 20' 30'
Scale

Note: On the Original Full-Scale Drawing, this dimension is 6"

FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

NO.	REVISIONS	DATE

STATE OF MAINE — RANDY J. BUTT — REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	12/30/14
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

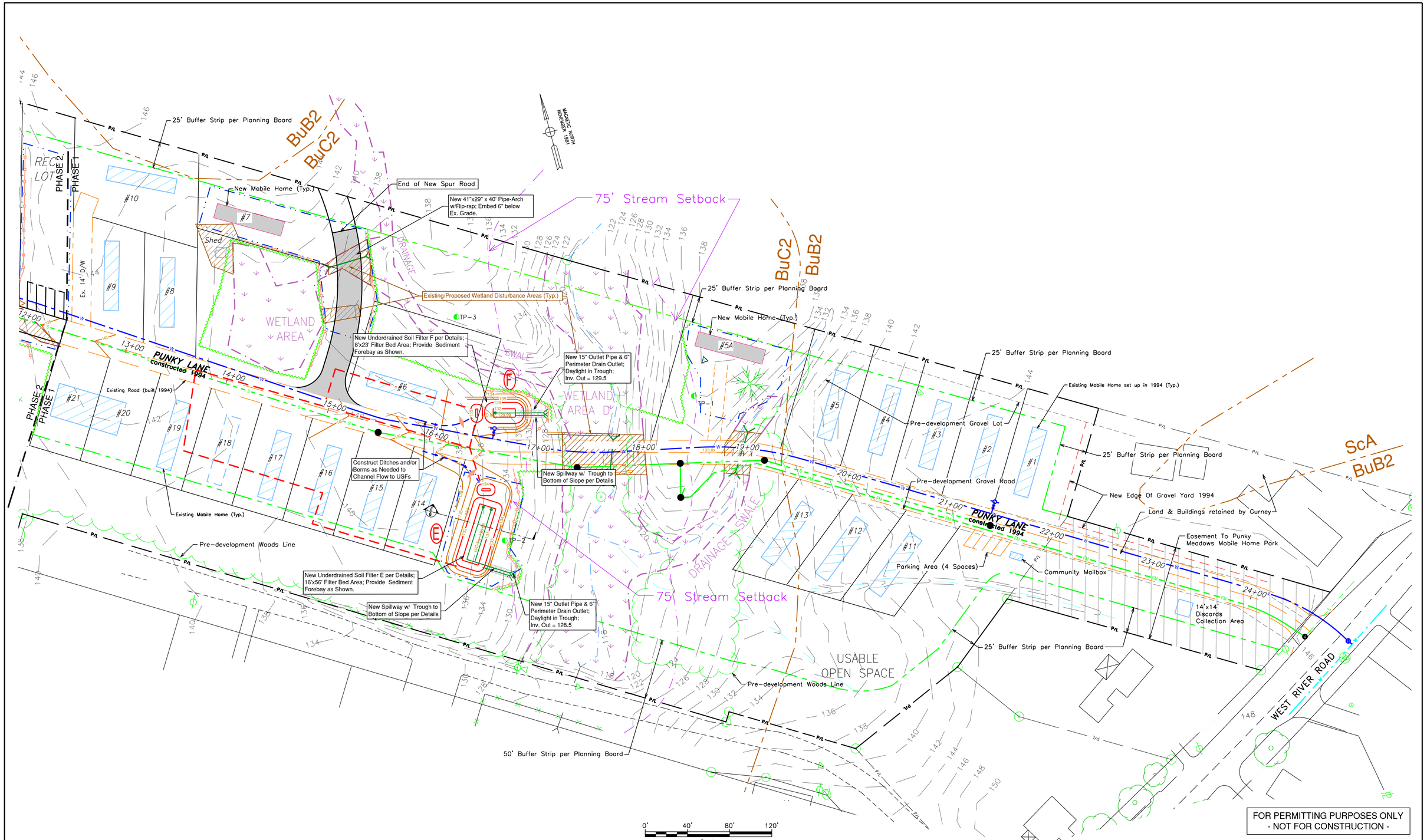
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

WEST PARK STORMWATER & EROSION CONTROL PLAN

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET SW 1 OF 4



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NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTT
REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	12/30/14
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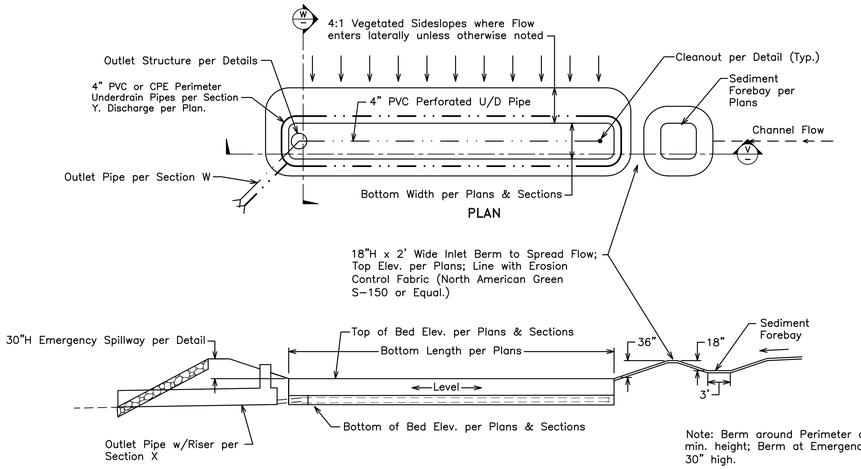
DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

EAST PARK STORMWATER
& EROSION CONTROL PLAN

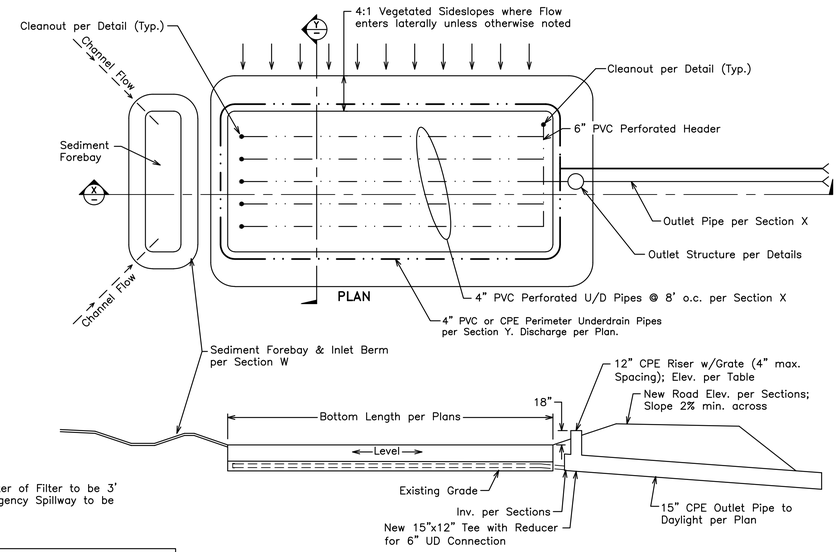
DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET SW 2 OF 4



Note: Berm around Perimeter of Filter to be 3' min. height; Berm at Emergency Spillway to be 30" high.

NOTE:
Contractor shall provide 48 hours notification to Engineer prior to construction of Underdrained Soil Filters. Construction monitoring by a professional engineer shall consist of weekly visits to the site to monitor construction.



UNDERDRAINED SOIL FILTER (USF) NOTES:

1. The underdrain filters within underdrained grass filters shall be installed only after the drainage areas to them are fully stabilized. The underdrain pipe, gravel bedding, and soil filter fill must not be installed while the construction areas have unstabilized soil.

2. The Soil Filter media shall consist of a coarse loamy sand mixture with organics. The mixture shall have 5–15% fines passing the #200 sieve and no more than 2% clay content. The mixture shall be of one of the following (% by volume):

Option 1:
50–55% Sand, MDOT 703.01 Fine Aggregate for Concrete
20–30% Loamy Sand Topsoil with minimal clay content and 15–25% fines passing #200 sieve
20–30% Mulch: moderately fine shredded bark or wood fiber with no more than 5% fines passing the #200 sieve.

MDOT 703.01 Fine Aggregate Specification

Sieve #	% Passing
3/8"	100
#4	95–100
#8	80–100
#16	50–85
#30	25–60
#60	10–30
#100	2–10
#200	0–5

Option 2:
70–80% Coarse loamy sand with the following sieve analysis:

Sieve #	% Passing
10	85–100
20	70–100
60	15–40
200	8–15

20–30% Mulch: moderately fine shredded bark or wood fiber with no more than 5% fines passing the #200 sieve.

3. When placing and shaping the gravel and soil filter material, compaction should be avoided. If compaction does occur, the surface should be rototilled before sodding or seeding.

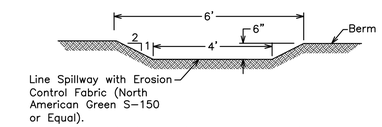
4. Seed mixture for the filter bed shall be:
- Creeping red fescue 20 lbs/acre
- Tall fescue 20 lbs/acre
- Birdsfoot trefoil 8 lbs/acre.

Apply lime, fertilizer, and mulch per Erosion Control Notes.

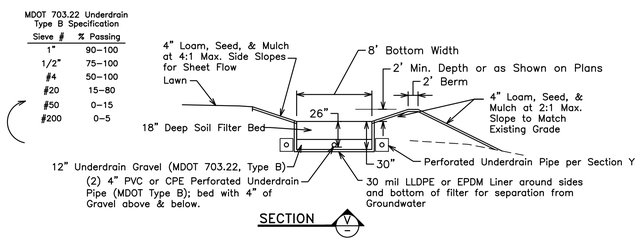
5. The interior side slopes of the underdrained soil filter basin may be stabilized with a four to six inch layer of composted erosion control mix (not bark mulch, not wood chips). This material may be obtained from New England Organics.

6. The surface of the soil filter must still be stabilized with vegetation and maintained as a high-grass stand (mowed once or twice per year to a height no less than six inches).

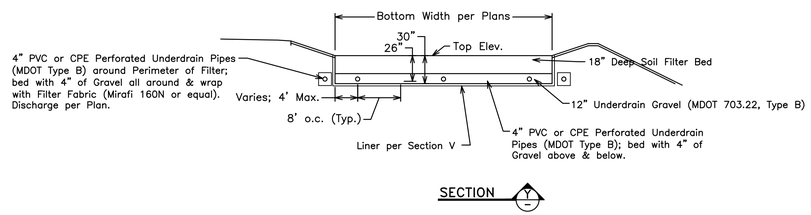
7. Unless noted otherwise, PVC pipe shall be SDR-35 or Sch. 40. CPE pipe shall be per specification.s



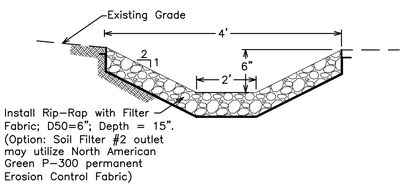
EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



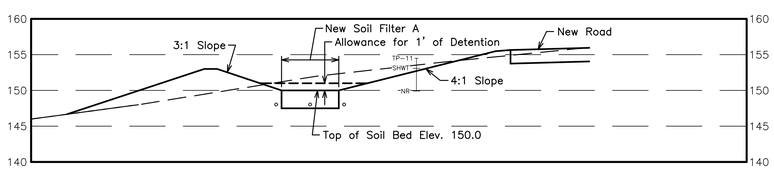
TYPICAL 8' WIDE UNDERDRAINED SOIL FILTER DETAIL – DEP OPTION 2
NOT TO SCALE

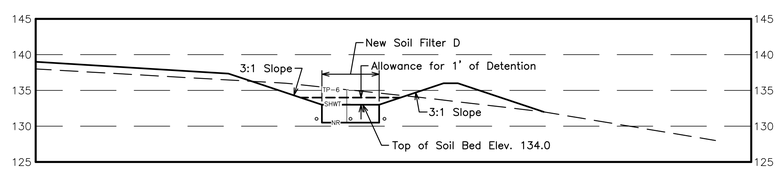


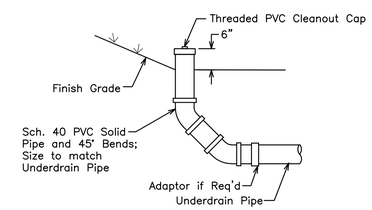
TYPICAL UNDERDRAINED SOIL FILTER DETAIL OVER 8' WIDE – DEP OPTION 2
NOT TO SCALE



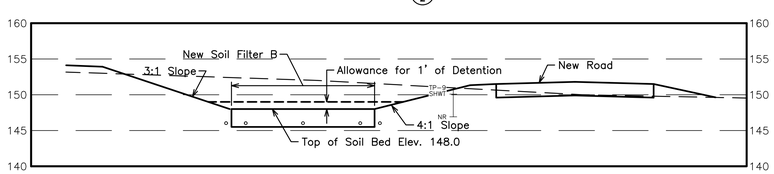
RIP-RAPPED TROUGH DETAIL
NOT TO SCALE

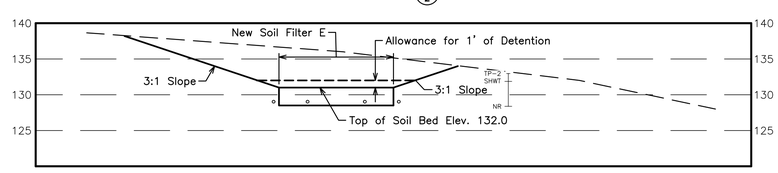


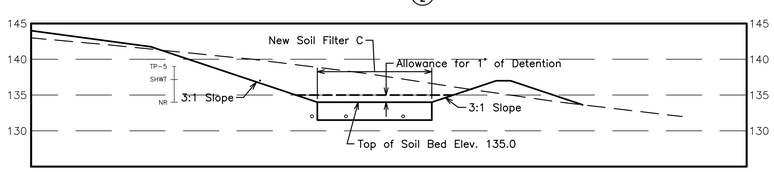




UNDERDRAIN CLEANOUT DETAIL
NOT TO SCALE







Test Pit Legend
TP-2 – Ground Elev. at Test Pit (Estimated from Contours)
SHWT – Seasonal High Water Table
NR – Depth Probed to Ledge (No Refusal)

0' 10' 20' 30'
Scale

Note: On the Original Full-Scale Drawing, this dimension is 6"

FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTT
7946
REGISTERED PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	12/30/14
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

UNDERDRAINED SOIL FILTER DETAILS

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET SW 3 OF 4

EROSION CONTROL NOTES:

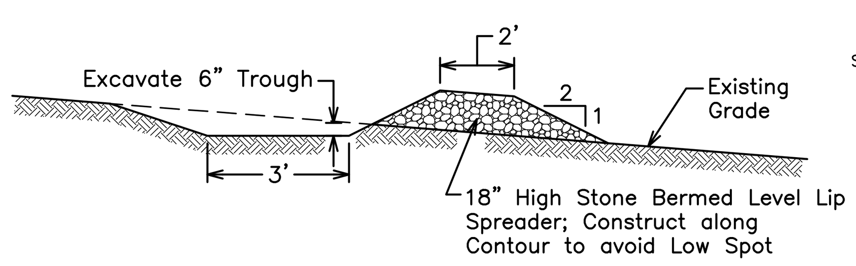
1. Erosion control measures shall comply with "Maine Erosion and Sediment Control BMP's" by Maine DEP, dated March 2003. (http://www.maine.gov/dep/land/erosion/escbmps/index.html) Measures shall be installed prior to any construction work and maintained until ground cover has been re-established, after which time erosion control fences and stone check dams shall be removed.
2. Erosion control measures shown on the plans are the minimum required. Additional measures shall be installed if deemed necessary by on-site inspections of the Owner or its representatives at no additional cost to the Owner.
3. Site work shall be accomplished in a manner and sequence that causes the least practical disturbance of the site and complies with the erosion control plans and these notes. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
4. All culvert inlets and outlets are to receive rip-rap aprons per details.
5. For rip-rap, D_{50} = the average size of stones: 50% (by weight) of the mixture shall be smaller and 50% shall be larger; largest stone size shall be D_{50} x 1.5.
6. Contractor shall maintain and add stone to the construction entrances when they become saturated with mud to ensure that they work as intended.
7. Erosion control fence shall be inspected, replaced and/or repaired immediately after any significant rainfall or snow melt or loss of serviceability due to sediment accumulation. At a minimum, all erosion contol devices shall be inspected on a weekly basis.
8. Contractor shall remove silt from around inlets and erosion control fences once it has accumulated to a depth of 3" or more. Silt so removed shall be placed and mixed into topsoil for use in lawn areas.
9. Contractor shall submit a dewatering plan to the Engineer to address excavation dewatering following heavy rainfall events or where the groundwater is encountered. Prevent erosion and sedimentation when dewatering. Utilize sedimentation control basins, sediment containment devices, filtration socks, filtration bags, or other appropriate control methods. Do not directly discharge to surface water or drainage systems.
10. Any disturbed area that is to be left exposed for more than twenty (20) days and not subject to construction traffic shall immediately receive a temporary seeding, fertilization, and mulching.
11. All areas outside the proposed building, gravel, and pavement limits shall be graded, loamed, mulched, meshed (where required), and seeded as soon as possible, except where rip-rap or other surface treatments are required, per the following:

    Topsoil Depth: 4" (screened to 1" minus)
    Lime: 130 lbs. per 1000 s.f.
    12-12-12 Fertilizer: 12 lbs. per 1000 s.f.

    Seed (lawn areas): 5 lbs/1000 square feet
    40% Creeping Red Fescue
    25% Kentucky Bluegrass
    5% White Clover
    30% Kentucky 31 Tall Fescue

    Mulch: 3 Bales per 1000 s.f.

12. For locations expected to experience more concentrated flows, the following seed mixture shall be applied at a rate of 62 lbs/acre:
    97% Tall Fescue
    3% Red Top
13. Any section of ditch or drainage swale excavated or brought to rough grade shall have Temporary Stone Check Dams installed within them and their side slopes mulched within 48 hours unless final grading and permanent stabilization will take place within 1 week. Install Temporary Stone Check Dams at Intervals Specified in Details.
14. Any section of ditch or drainage swale brought to final grade shall be permanently stabilized within 48 hours. Roadway ditch lines and other drainage swales shall be lined with erosion control matting to firmly hold loamed and seeded areas in place. Install per manufacturer's recommendations. Unless otherwise noted, use North American Green S-150, staple pattern D.
15. Immediately after the completion of stripping and stockpiling of topsoil, the stockpile(s) must be stabilized according to the standard for temporary vegetative cover. Stabilize topsoil stockpile(s) with straw mulch for protection if the season does not permit the application and establishment of temporary seeding. The base of soil stockpiles must be protected with a sediment barrier.
16. Contractor shall be responsible for the vegetative cover (except for routine mowing) for 12 months from project completion.



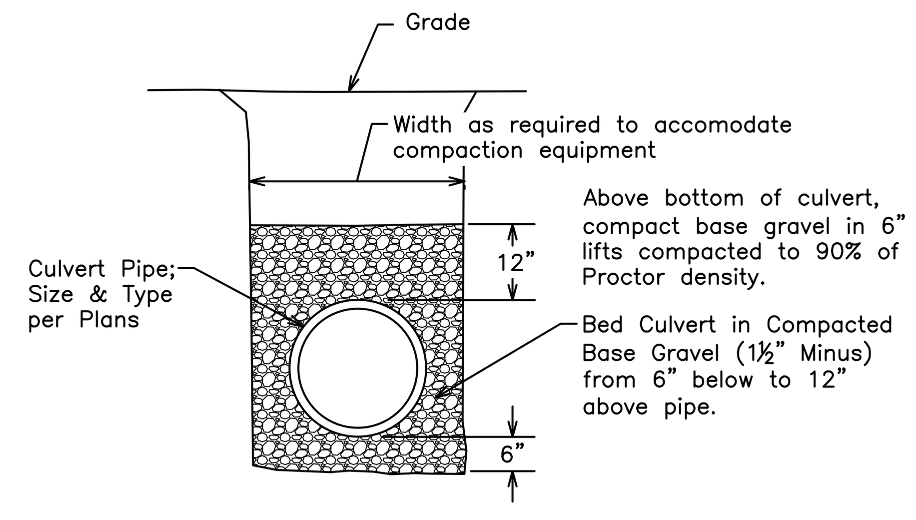
Stone shall meet the following criteria:

Sieve Designation	% Passing by Weight
12"	100
6"	84-100
3"	68-83
1"	42-55
No. 4	8-12

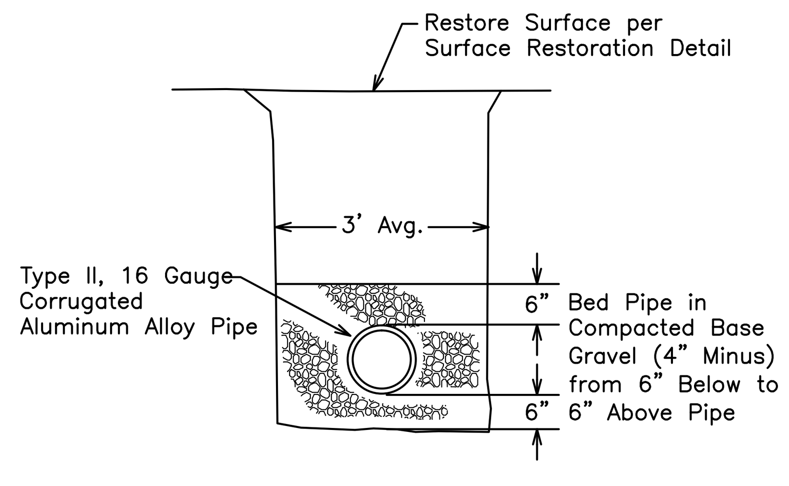
NOTE:
Contractor shall provide 48 hours notification to Engineer prior to construction of Level Spreader. Construction monitoring by a professional engineer shall consist of weekly visits to the site to monitor level spreader construction, stone berm material and placement, and settling basin from initial ground disturbance to final stabilization of the level spreader.

Long-Term Maintenance Note:
During the first year following completion, level spreaders should be checked semi-annually, and a minimum of once per year thereafter. Washouts and other areas requiring maintenance shall be repaired immediately. Spreaders are to be inspected for signs of channelization and immediately repaired. Remove sedimentation when structure no longer functions properly. Snow shall not be stored in the area of the spreaders.

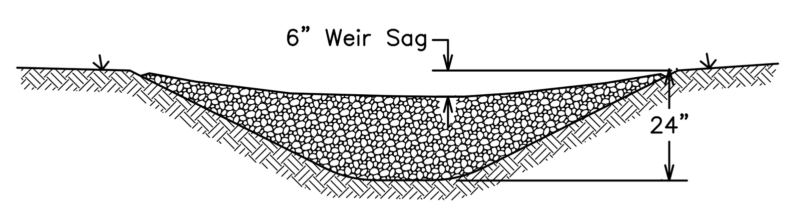
LEVEL SPREADER DETAIL
NOT TO SCALE



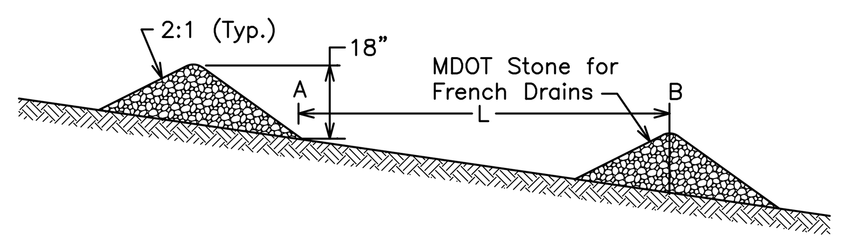
CPE CULVERT TRENCH DETAIL
NOT TO SCALE



CMP TRENCH DETAIL
NOT TO SCALE



VIEW FROM DITCHLINE
NOT TO SCALE

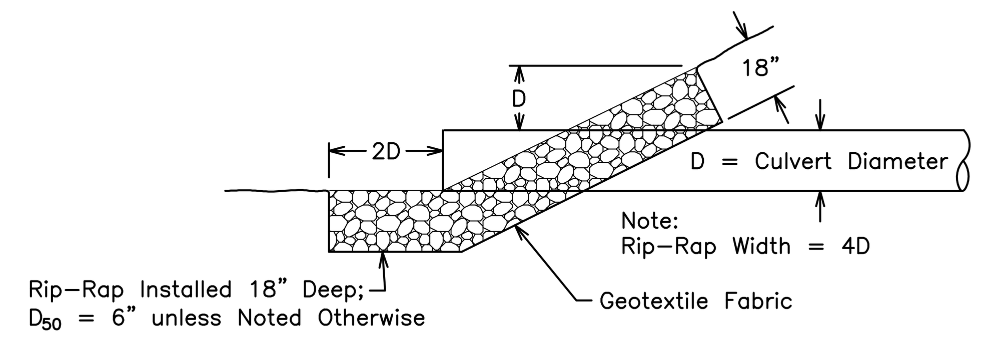


PROFILE ALONG DITCH CENTERLINE
NOT TO SCALE

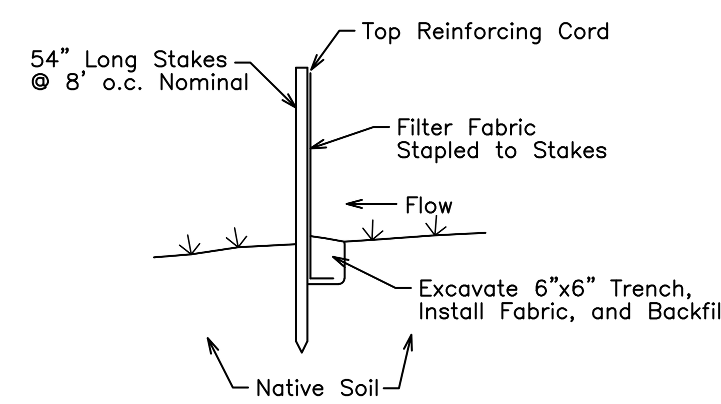
Slope (ft./ft.)	Length (ft.)
0.02	100
0.03	66
0.04	50
0.05	40
0.08	25
0.10	20
0.12	17
0.15	13

NOTES:
1. L = Distance such that points A & B are of Equal Elevation.
2. For Slopes less than 2%, install Check Dams at 100' Intervals.
3. Remove Check Dams after vegetation is established.

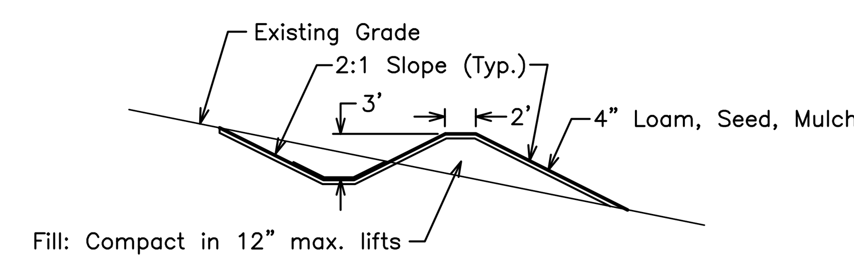
TEMPORARY STONE CHECK DAM DETAILS
NOT TO SCALE



CULVERT INLET/OUTLET DETAIL
NOT TO SCALE

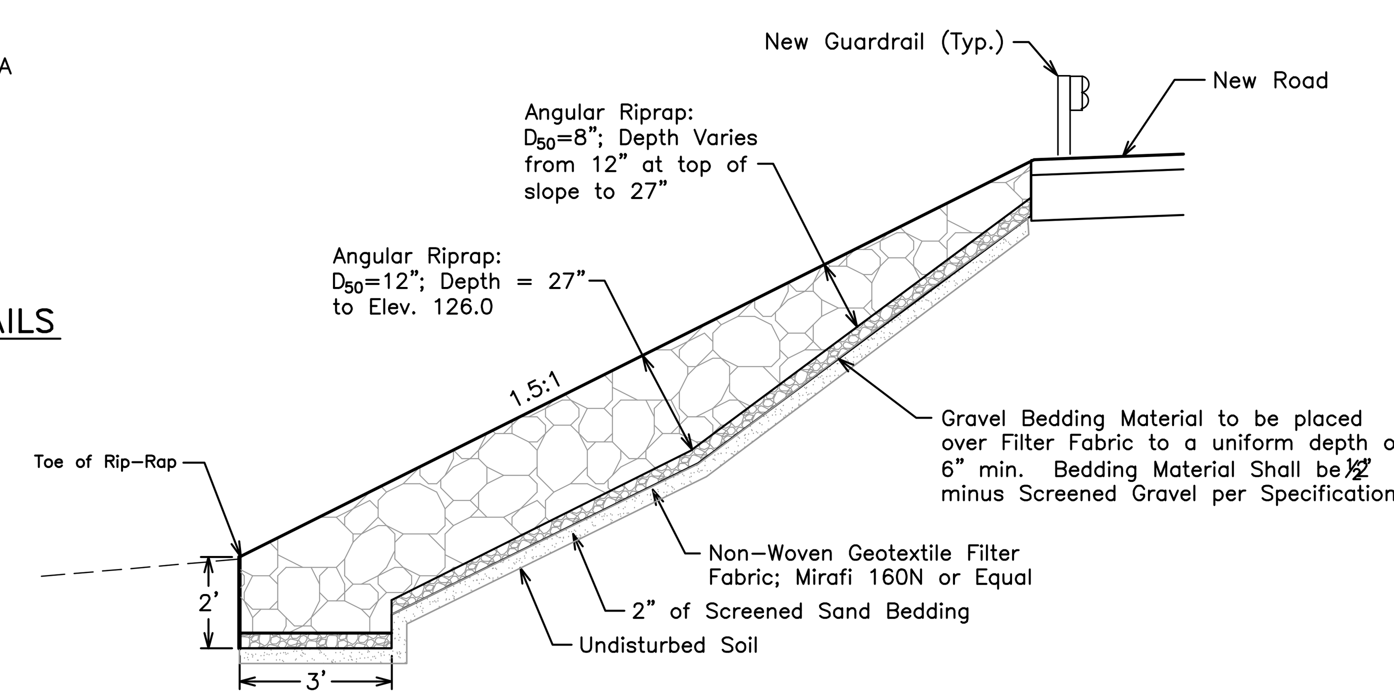


EROSION CONTROL FENCE DETAIL
NOT TO SCALE

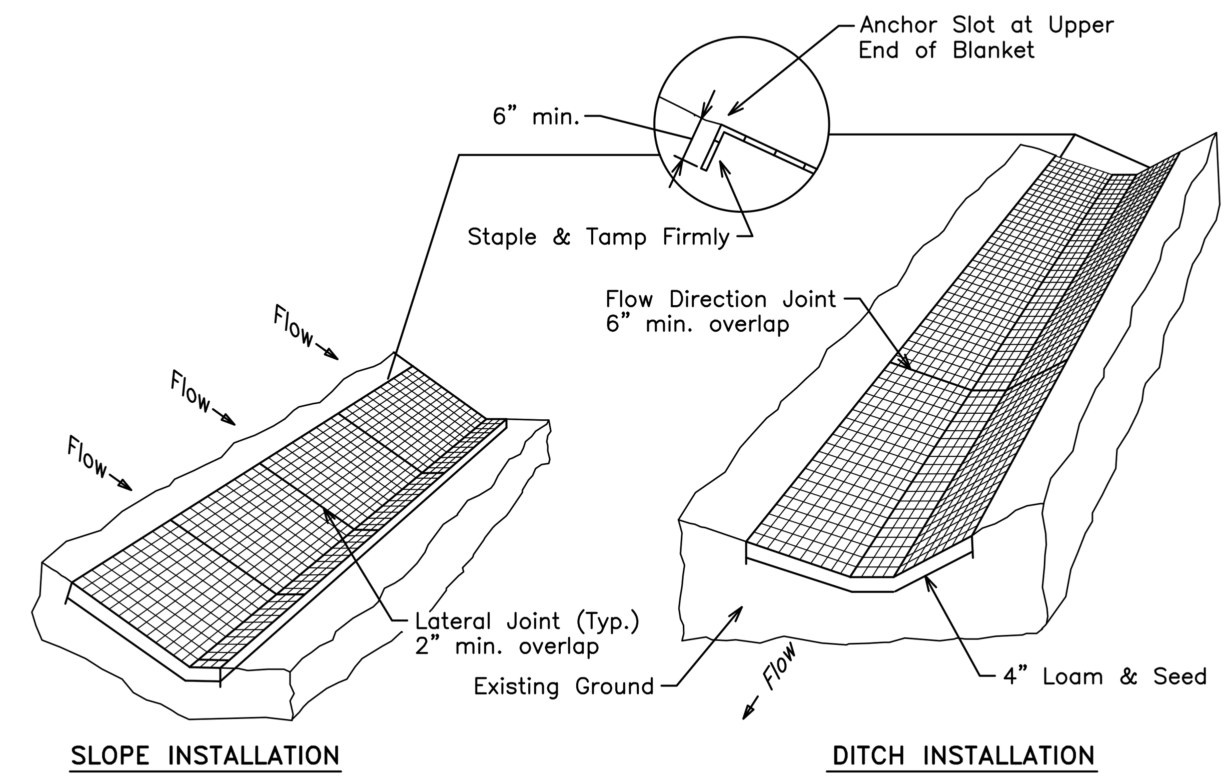


Note:
Line Ditch Bottom with North American Green P300 Permanent Erosion Control Fabric or Approved Equal (6'-8" min. Width). Line remainder of ditch side slopes and berm with North American Green S-150 Erosion Control Fabric.

DIVERSION DITCH DETAIL
NOT TO SCALE

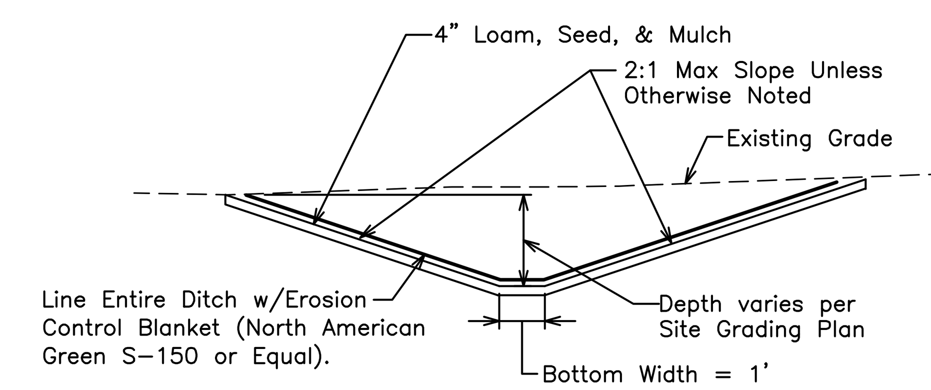


TYPICAL RIP-RAP SLOPE DETAIL
NOT TO SCALE



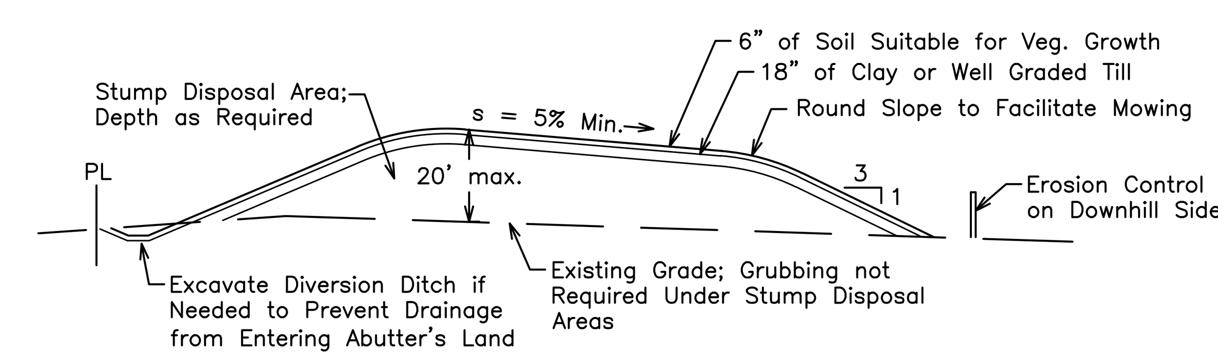
NOTES:
1. Erosion Control Blanket shall be North American Green S150 or equal, 100% straw blanket with a top and bottom photobiodegradable net. Fasteners shall be Bio-Stakes or Wire Stakes by North American Green or equal.
2. Staple Blankets in accordance with Manufacturer's latest recommendations (Staple Pattern B as a minimum for Side Slopes; Pattern D as a minimum for Ditches). Upstream blankets shall overlap downstream blankets.
3. On slopes, end seams of blankets in the direction of flow shall overlap a minimum of 6 inches. Overlapped seams shall be fastened at 12" o.c.
4. In ditches, end seams of blankets shall overlap a minimum of 6 inches and shall be secured with a double row of staggered staples at 4" o.c.

EROSION CONTROL BLANKET DETAIL
NOT TO SCALE



TYPICAL DITCH SECTION
NOT TO SCALE

Notes:
1. No stumps shall be placed within 3' of seasonal high water table. Fill if needed.
2. Stumps shall be buried/mixed with Fill Material to Prevent Excessive Settling.
3. Stump dump surface shall be stabilized prior to construction of Underdrained Soil Filters.



TYPICAL STUMP DISPOSAL AREA DETAIL
NOT TO SCALE

FOR PERMITTING PURPOSES ONLY
- NOT FOR CONSTRUCTION -

NO.	REVISIONS	DATE

STATE OF MAINE
RANDY J. BUTLER
7989
REGISTERED
PROFESSIONAL ENGINEER

SCALE:	AS NOTED
DATE:	12/30/14
DRAWN BY:	RJB
CHECKED:	
APPROVED:	RJB
FIELD BK:	27
FILE: A	PM 2014
PROJECT:	#44401

DOUBLE EAGLE PROPERTIES, LLC
AUBURN, MAINE

PUNKY MEADOWS MOBILE HOME PARK PHASE 2
PUNKY LANE, WATERVILLE, MAINE

MISCELLANEOUS DETAILS

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET
SW
4 OF 4

Note: On the Original Full-Scale Drawing, this dimension is 6"