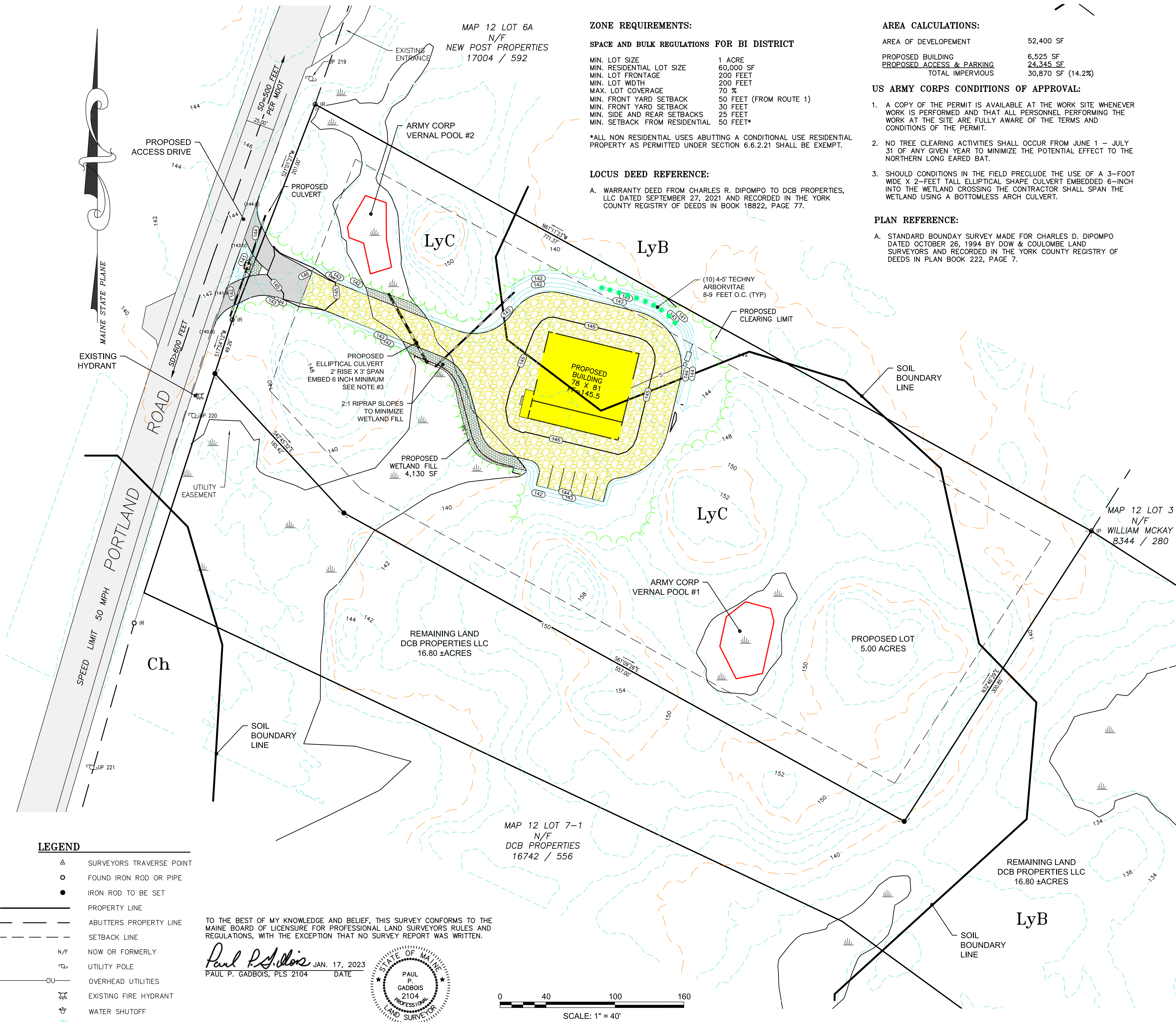


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ZONE REQUIREMENTS:

SPACE AND BULK REGULATIONS FOR BI DISTRICT

MIN. LOT SIZE 1 ACRE
 MIN. RESIDENTIAL LOT SIZE 60,000 SF
 MIN. LOT FRONTAGE 200 FEET
 MIN. LOT WIDTH 200 FEET
 MAX. LOT COVERAGE 70 %
 MIN. FRONT YARD SETBACK 50 FEET (FROM ROUTE 1)
 MIN. FRONT YARD SETBACK 30 FEET
 MIN. SIDE AND REAR SETBACKS 25 FEET
 MIN. SETBACK FROM RESIDENTIAL 50 FEET*

*ALL NON RESIDENTIAL USES ABUTTING A CONDITIONAL USE RESIDENTIAL PROPERTY AS PERMITTED UNDER SECTION 6.6.2.21 SHALL BE EXEMPT.

LOCUS DEED REFERENCE:

A. WARRANTY DEED FROM CHARLES R. DIPOMPO TO DCB PROPERTIES, LLC DATED SEPTEMBER 27, 2021 AND RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS IN BOOK 18822, PAGE 77.

AREA CALCULATIONS:

AREA OF DEVELOPEMENT 52,400 SF
 PROPOSED BUILDING 6,525 SF
 PROPOSED ACCESS & PARKING 24,345 SF
 TOTAL IMPERVIOUS 30,870 SF (14.2%)

US ARMY CORPS CONDITIONS OF APPROVAL:

1. A COPY OF THE PERMIT IS AVAILABLE AT THE WORK SITE WHENEVER WORK IS PERFORMED AND THAT ALL PERSONNEL PERFORMING THE WORK AT THE SITE ARE FULLY AWARE OF THE TERMS AND CONDITIONS OF THE PERMIT.
2. NO TREE CLEARING ACTIVITIES SHALL OCCUR FROM JUNE 1 - JULY 31 OF ANY GIVEN YEAR TO MINIMIZE THE POTENTIAL EFFECT TO THE NORTHERN LONG EARED BAT.
3. SHOULD CONDITIONS IN THE FIELD PRECLUDE THE USE OF A 3-FOOT WIDE X 2-FOOT TALL ELLIPTICAL SHAPE CULVERT EMBEDDED 6-INCH INTO THE WETLAND CROSSING THE CONTRACTOR SHALL SPAN THE WETLAND USING A BOTTOMLESS ARCH CULVERT.

PLAN REFERENCE:

A. STANDARD BOUNDARY SURVEY MADE FOR CHARLES D. DIPOMPO DATED OCTOBER 26, 1994 BY DOW & COULOMBE LAND SURVEYORS AND RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS IN PLAN BOOK 222, PAGE 7.

- NOTES:**
1. RECORD OWNER: DCB PROPERTIES LLC
20 TECHNOLOGY DRIVE
ARUNDEL, MAINE
 2. NAME OF APPLICANT: RICHARD KROUSE
46 TITCOMB LANE
ARUNDEL, MAINE
 3. MAP / LOT: 12 / 6
 4. TOTAL AREA OF PROPERTY 21.80 ±ACRES. PROPOSED LOT 5.00 ACRES.
 5. PROPERTY IS LOCATED IN THE BI ZONE.
 6. PROPOSED USE: MANUFACTURING.
 7. THE PROPERTY IS NOT LOCATED WITHIN A FEMA FLOOD ZONE.
 8. PROPERTY TO BE SERVICED BY OVERHEAD UTILITIES, SEPTIC AND DRILLED WELL.
 9. PRIOR TO THE INSTALLATION OF A SIGN THE OWNER SHALL OBTAIN A SIGN PERMIT FROM THE CODE ENFORCEMENT OFFICER.
 10. THE PROJECT HORIZONTAL DATUM: MAINE STATE PLANE COORDINATE SYSTEM, MAINE WEST ZONE. PROJECT VERTICAL DATUM: NORTH AMERICAN DATUM 1988 (NAVD88). ALL DATA WAS DERIVED USING LEICA GS14 REAL TIME KINEMATICS GPS.
 11. WETLANDS SHOWN ON THIS PLAN WERE DELINEATED BY OTHERS AND REVIEWED BY COPPI ENVIRONMENTAL, LLC SEE REPORT DATED NOVEMBER 22, 2022.
 12. TOPOGRAPHIC INFORMATION WAS DERIVED FROM THE MAINE GIS WEBSITE.
 13. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL EVIDENCE LOCATED IN THE FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES, CONTRACTOR AND / OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES PRIOR TO BUILDING DESIGN, CONSTRUCTION AND/OR EXCAVATION.
 14. THIS PROJECT RECEIVED A MDOT CONSTRUCTION ENTRANCE DRIVEWAY WAIVER PERMIT #31582 ON DECEMBER 9, 2022. THE WAIVER WAS RECORDED IN THE YORK COUNTY REGISTRY OF DEEDS ON DECEMBER 2, 2022 AND RECORDED IN BOOK 19172 PAGE 736.
 15. THIS PROJECT RECEIVED AN ARMY CORP WETLAND FILL PERMIT TO FILL 4,130 SQUARE FEET OF WETLANDS ON JANUARY 11, 2023 PERMIT #NAE-2022-02756.
 16. COPPI ENVIRONMENTAL, LLC WETLAND & SOIL SCIENTIST COMPLETED A VERNAL POOL REPORT FOR THE PROJECT DATED MAY 9, 2022.
 17. THE OWNER IS REQUIRE TO SUBMIT TO THE STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION A STORMWATER PERMIT BY RULE (PBR) APPLICATION FOR THIS PROJECT 14 DAYS PRIOR TO BEGINNING WORK ON THE PROJECT.

- PLAN INDEX**
1. SITE PLAN
 2. GRADING AND UTILITY PLAN
 3. EROSION CONTROL NOTES & DETAILS
 4. EROSION CONTROL NOTES & DETAILS
- STORMWATER INDEX**
1. PRE CONDITIONS
 2. POST CONDITIONS

APPROVAL
TOWN OF ARUNDEL
PLANNING BOARD

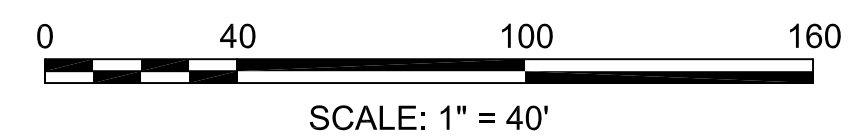
DATE

CHAIRPERSON

- LEGEND**
- ▲ SURVEYORS TRAVERSE POINT
 - FOUND IRON ROD OR PIPE
 - IRON ROD TO BE SET
 - PROPERTY LINE
 - - - ABUTTERS PROPERTY LINE
 - - - SETBACK LINE
 - N/F NOW OR FORMERLY
 - UTILITY POLE
 - OU — OVERHEAD UTILITIES
 - ⊗ EXISTING FIRE HYDRANT
 - ⊕ WATER SHUTOFF
 - ⊙ TECHNY ARBORVITAE

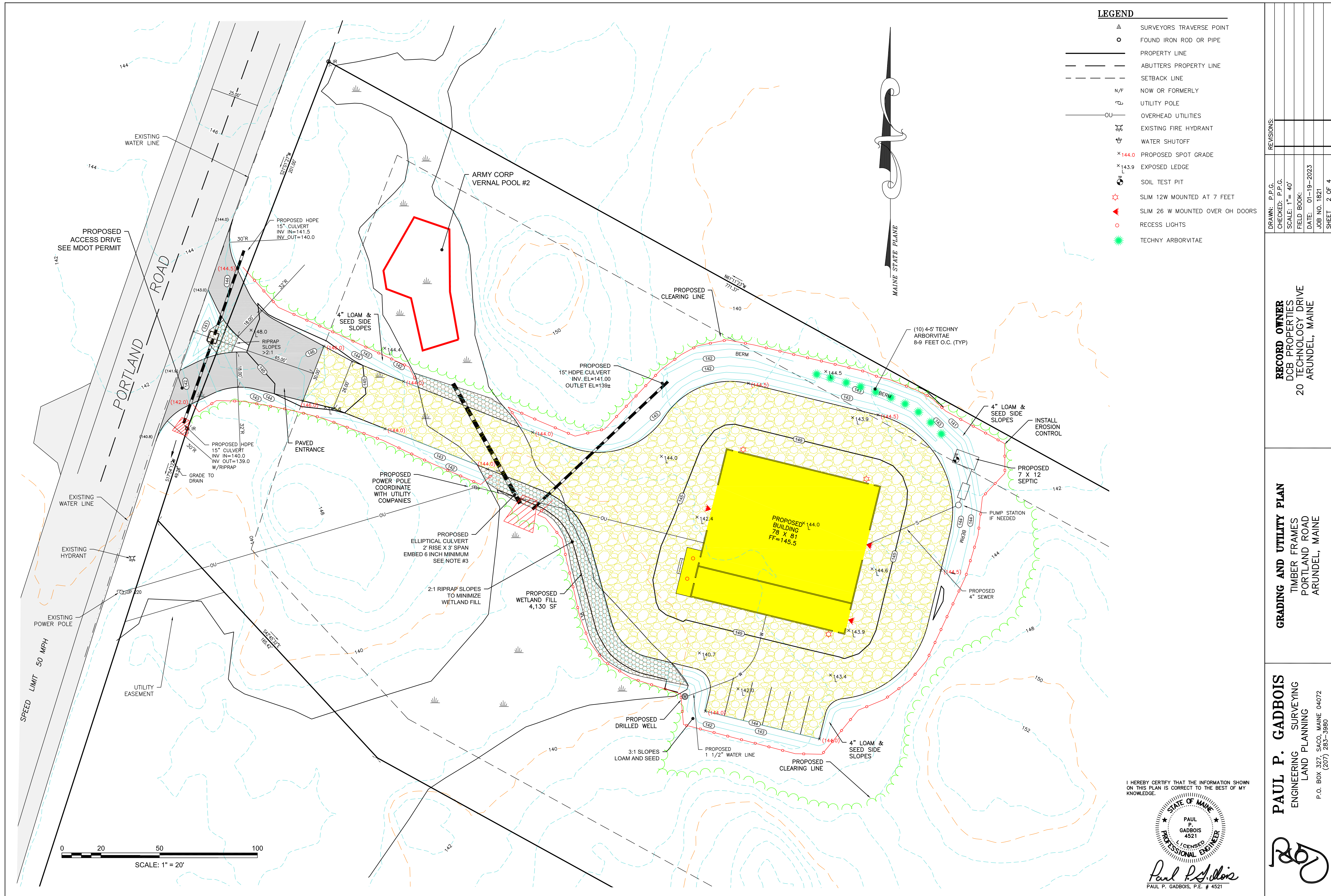
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS RULES AND REGULATIONS, WITH THE EXCEPTION THAT NO SURVEY REPORT WAS WRITTEN.

Paul P. Gadbois JAN. 17, 2023
 PAUL P. GADBOIS, PLS 2104 DATE



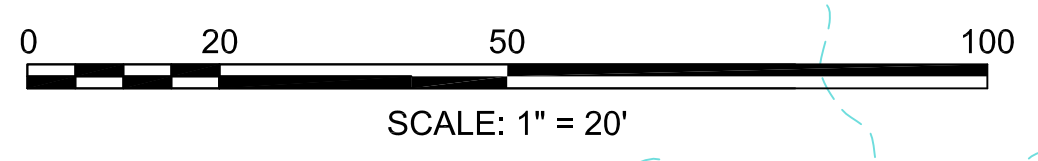
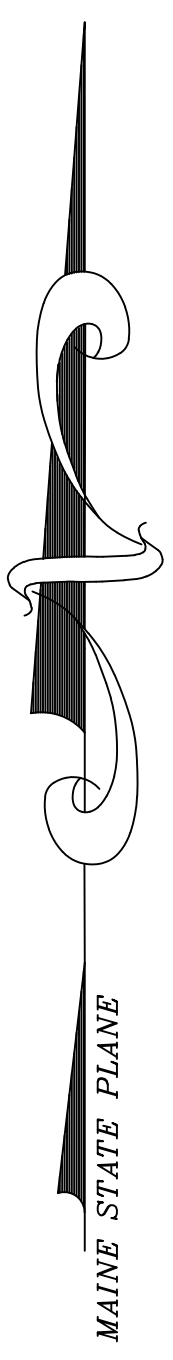
REVISIONS:					
DRAWN: P.P.G.	CHECKED: P.P.G.	SCALE: 1" = 40'	FIELD BOOK:	DATE: 11-21-2022	JOB NO. 1821
					2. 01-19-23 SUBMIT TO TOWN
					1. 12-14-22 PER ACE COMMENTS 12-08-22
RECORD OWNER					
DCB PROPERTIES 20 TECHNOLOGY DRIVE ARUNDEL, MAINE					
SITE PLAN					
TIMBER FRAMES PORTLAND ROAD ARUNDEL, MAINE					
PAUL P. GADBOIS					
ENGINEERING SURVEYING LAND PLANNING					
P.O. BOX 327, SAO, MAINE 04072 (207) 283-3980					

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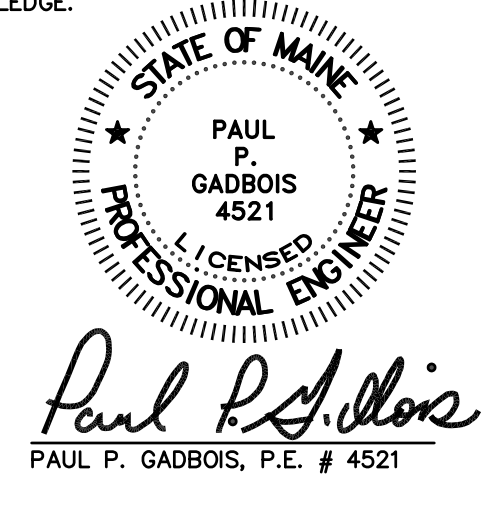


LEGEND

△	SURVEYORS TRAVERSE POINT
○	FOUND IRON ROD OR PIPE
—	PROPERTY LINE
- - -	ABUTTERS PROPERTY LINE
- - -	SETBACK LINE
N/F	NOW OR FORMERLY
○	UTILITY POLE
—OU	OVERHEAD UTILITIES
⊗	EXISTING FIRE HYDRANT
⊗	WATER SHUTOFF
x144.0	PROPOSED SPOT GRADE
x143.9	EXPOSED LEDGE
⊗	SOIL TEST PIT
⊗	SLIM 12W MOUNTED AT 7 FEET
⊗	SLIM 26 W MOUNTED OVER OH DOORS
○	RECESS LIGHTS
⊗	TECHNY ARBORVITAE



I HEREBY CERTIFY THAT THE INFORMATION SHOWN ON THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE.



REVISIONS:	
DRAWN: P.P.G.	
CHECKED: P.P.G.	
SCALE: 1" = 40'	
FIELD BOOK:	
DATE: 01-19-2023	
JOB NO. 1821	
SHEET 2 OF 4	

RECORD OWNER
DCB PROPERTIES
20 TECHNOLOGY DRIVE
ARUNDEL, MAINE

GRADING AND UTILITY PLAN
TIMBER FRAMES
PORTLAND ROAD
ARUNDEL, MAINE

PAUL P. GADBOIS
ENGINEERING SURVEYING
LAND PLANNING
P.O. BOX 327, SAO, MAINE 04072
(207) 283-3980

EROSION AND SEDIMENTATION NOTES:

1. The Site Contractor shall follow the "Maine Erosion and Sediment Control BMPs" published by the Maine DEP in 2003 and the "Maine Erosion and Sediment Control Practices Field Guide for Contractors published in 2015". The manuals can be found on the Maine DEP web site. A link to the field guide is shown below:

<http://www.maine.gov/dep/land/erosion/escbmps/index.html>

THE CONTRACTOR SHALL ALSO FOLLOW THE GUIDELINES LISTED IN APPENDICES A, B, C IN MAINE DEP CHAPTER 500 RULES (2015 NOTES PROVIDED ON THIS SHEET).

GENERAL EROSION AND SEDIMENTATION CONTROL PRACTICES:

EROSION/SEDIMENT CONTROL DEVICES:

THE FOLLOWING EROSION SEDIMENTATION CONTROL DEVICES ARE PROPOSED FOR CONSTRUCTION ON THIS PROJECT. INSTALL THESE DEVICES AS INDICATED ON THE PLANS.

1. **SILT FENCE:** SILT FENCE WILL BE INSTALLED ALONG THE DOWN GRADING EDGES OF DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE IS STABILIZED. IN AREAS WHERE STORMWATER DISCHARGES THE SILT FENCE WILL BE REINFORCED WITH HAY BALES TO HELP MAINTAIN THE INTEGRITY OF THE SILT FENCE AND TO PROVIDE ADDITIONAL TREATMENT.

2. **HAY BALES:** HAY BALES TO BE PLACED IN LOW FLOW DRAINAGE SWALES AND PATHS TO TRAP SEDIMENTS AND REDUCE RUNOFF VELOCITIES. DO NOT PLACE HAY BALES IN FLOWING WATER OR STREAMS.

3. **RIPRAP:** PROVIDE RIPRAP IN AREAS WHERE CULVERTS DISCHARGE OR AS SHOWN ON THE PLANS.

4. **LOAM, SEED, & MULCH:** ALL DISTURBED AREAS, WHICH ARE NOT OTHERWISE TREATED, SHALL RECEIVE PERMANENT SEEDING AND MULCH TO STABILIZE THE DISTURBED AREAS. THE DISTURBED AREAS WILL BE REVEGETATED WITHIN 5 DAYS OF FINAL GRADING. SEEDING REQUIREMENTS ARE PROVIDED AT THE END OF THIS SPECIFICATION.

5. **STRAW AND HAY MULCH:** USED TO COVER DENUDED AREAS UNTIL PERMANENT SEED OR EROSION CONTROL MEASURES ARE IN PLACE. MULCH BY ITSELF CAN BE USED ON SLOPES LESS THAN 15% IN SUMMER AND 8% IN WINTER. JUTE MESH IS TO BE USED OVER MULCH ONLY. CURLEX II AND EXCELSIOR MAY BE USED IN PLACE OF JUTE MESH OVER MULCH.

6. **MULCH NETTING:** SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.

TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES:

PROVIDE THE FOLLOWING TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION OF THE DEVELOPMENT:

1. **SILTATION FENCE ALONG THE DOWNGRADE SIDE OF THE PARKING AREAS AND OF ALL FILL SECTIONS.** THE SILTATION FENCE WILL REMAIN IN PLACE UNTIL THE SITE IS 85% REVEGETATED. REMOVE SILTATION FENCE, WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. REMOVE ANY ACCUMULATED SEDIMENT AND STABILIZE.

2. **HAY BALES PLACED AT KEY LOCATIONS TO SUPPLEMENT THE SILT FENCE.**

3. **PROTECT TEMPORARY STOCKPILES OF STUMPS, GRUBBINGS, OR COMMON EXCAVATION AS FOLLOWS:**

- A. SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED 2:1.
- B. AVOID PLACING TEMPORARY STOCKPILES IN AREAS WITH SLOPES OVER 10 PERCENT, OR NEAR DRAINAGE SWALES. SEE ITEM 3 IN CONSTRUCTION PHASE NOTES BELOW.
- C. STABILIZE STOCKPILES WITHIN 15 DAYS BY TEMPORARILY SEEDING WITH A HYDROSEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH.
- D. SURROUND STOCKPILE SOIL WITH SILTATION FENCE AT BASE OF PILE.

4. **ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED AND ARE NOT LOCATED WITHIN THE BUILDING PAD, OR PARKING AND DRIVEWAY SUBBASE AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS SHALL RECEIVE MULCH OR NON-ERODIBLE COVER.** STABILIZE AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OR THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. IN THE EVENT THE CONTRACTOR COMPLETES FINAL GRADING AND INSTALLATION OF LOAM AND SOD WITHIN THE TIME PERIODS PRESENTED ABOVE, INSTALLATION OF MULCH AND NETTING, WHERE APPLICABLE, IS NOT REQUIRED.

5. **IF WORK IS CONDUCTED BETWEEN OCTOBER 15 AND APRIL 15, ALL DENUDED AREAS ARE TO BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND ANCHORED WITH FABRIC NETTING.** THE PERIOD BETWEEN FINAL GRADING AND MULCHING SHALL BE REDUCED TO A 15 DAY MAXIMUM.

6. **TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED OR IN AREAS WHERE PERMANENT EROSION CONTROL MEASURES HAVE BEEN INSTALLED.**

PERMANENT EROSION CONTROL MEASURES:

THE FOLLOWING PERMANENT CONTROL MEASURES ARE REQUIRED BY THIS EROSION/SEDIMENTATION CONTROL PLAN:

1. **ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (PAVING, RIPRAP, ETC.), WILL BE LOAMED, LIMED, FERTILIZED AND SEEDED.** NATIVE TOPSOIL SHALL BE STOCKPILED AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.

2. **IF AN AREAS WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, THEN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB-BASE.** IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, SOIL, AND MOISTURE CONDITIONS; AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS; PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS; AND SCHEDULE SODDING, PLANTING, AND SEEDING TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. IF NECESSARY, AREAS MUST BE SEEDED AND MULCHED AGAIN IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

- (a) Seeded areas. For seeded areas, permanent stabilization means a 90% cover of healthy plants with no evidence of washing or rilling of the topsoil.
- (b) Sodded areas. For sodded areas, permanent stabilization means the complete binding of the sod roots into the underlying soil with no stumping of the sod or die-off.
- (c) Permanent Mulch. For mulched areas, permanent mulching means total coverage of the exposed area with an approved mulch material. Erosion control mix may be used as mulch for permanent stabilization according to the approved application rates and limitations.
- (d) Riprap. For areas stabilized with riprap, permanent stabilization means that slopes stabilized with riprap have an appropriate backing of a well-graded gravel or approved geotextile to prevent soil movement from behind the riprap. Stone must be sized appropriately. It is recommended that angular stone be used.
- (e) Agricultural use. For construction projects on land used for agricultural purposes (e.g., pipelines across crop land), permanent stabilization may be accomplished by returning the disturbed land to agricultural use.
- (f) Paved areas. For paved areas, permanent stabilization means the placement of the compacted gravel subbase is completed.
- (g) Ditches, channels, and swales. For open channels, permanent stabilization means the channel is stabilized with a 90% cover of healthy vegetation, with a well-graded riprap lining, or with another non-erosive lining such as concrete or asphalt pavement. There must be no evidence of slumping of the channel lining, undercutting of the channel banks, or down-cutting of the channel.

3. **SLOPES GREATER THAN 2:1 WILL RECEIVE RIPRAP.**

POST-CONSTRUCTION REVEGETATION:

THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION AS SOON AS AN AREA IS READY TO UNDERGO FINAL GRADING.

1. A MINIMUM OF 4" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL APPEARANCE, OR STONE WILL BE PLACED ON SLOPES TO STABILIZE SURFACES.
2. IF FINAL GRADING IS REACHED DURING THE NORMAL GROWING SEASON (4/15 TO 9/15), PERMANENT SEEDING WILL BE DONE AS SPECIFIED BELOW. PRIOR TO SEEDING, LIMESTONE SHALL BE APPLIED AT A RATE OF 138 LBS/1000 SQ. FT. AND 10:20:20 FERTILIZER AT A RATE OF 18.4 LBS/1000 SQ.FT WILL BE APPLIED. BROADCAST SEEDING AT THE FOLLOWING RATES:

LAWNS	SWALES
KENTUCKY BLUEGRASS 0.46 LBS/1000 SF.	RED TOP 0.05 LBS/1000 SF.
CREeping RED FESCUE 0.46 LBS/1000 SF.	TALL FESCUE 0.46 LBS/1000 SF.
PERENNIAL RYE GRASS 0.11 LB/1000 SF.	

3. AN AREA SHALL BE MULCHED IMMEDIATELY AFTER IS HAS BEEN SEED. MULCHING SHALL CONSIST OF HAY MULCH, HYDRO-MULCH, JUTE NET OVER MULCH, PRE-MANUFACTURED EROSION MATS OR ANY SUITABLE SUBSTITUTE DEMED ACCEPTABLE BY THE DESIGNER.
 - A. HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. HAY MULCH SHALL BE SECURED BY EITHER: (NOTE: SOIL SHALL NOT BE VISIBLE)
 - I. BEING DRIVEN OVER BY TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS.
 - II. BLANKETED BY TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING, OR WITH SPRAY, ON GRADES GREATER THAN 5%.
 - III. SEE NOTE 6, GENERAL NOTES, AND NOTE 8, WINTER CONSTRUCTION.
 - B. HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF EITHER ASPHALT, WOOD FIBER OR PAPER FIBER AND WATER SPRAYED OVER A SEEDED AREA. HYDRO-MULCH SHALL NOT BE USED BETWEEN 9/15 AND 4/15.

4. CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR SEEDING BETWEEN SEPTEMBER 15 AND APRIL 15. SHOULD SEEDING BE NECESSARY BETWEEN SEPTEMBER 15 AND APRIL 15 THE FOLLOWING PROCEDURE SHALL BE FOLLOWED. ALSO REFER TO NOTE 9 OF WINTER CONSTRUCTION.
 - A. ONLY UNFROZEN LOAM SHALL BE USED.
 - B. LOAMING, SEEDING AND MULCHING WILL NOT BE DONE OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED.
 - C. WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS/1000 SQ.FT) SHALL BE ADDED TO THE PREVIOUSLY NOTED AREAS.
 - D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.6 LBS/1000 SQ. FT.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE.
 - E. FERTILIZING, SEEDING AND MULCHING SHALL BE APPLIED TO LOAM THE DAY THE LOAM IS SPREAD BY MACHINERY.
 - F. ALTERNATIVE HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE.
5. FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 30 DAYS UNTIL 85% COVER HAS BEEN ESTABLISHED. RESEEDING OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE ENGINEER THAT THE EXISTING CATCH IS INADEQUATE.

MONITORING SCHEDULE:

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO. MAINTENANCE RECORDS WILL BE SEPARATELY MAINTAINED DURING THE ENTIRE CONSTRUCTION CYCLE. ON A WEEKLY BASIS OR AFTER EACH RAINFALL, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:

1. HAY BALE BARRIERS, SILT FENCE, AND STONE CHECK DAMS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK OR IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING. SHOULD THE HAY BALE BARRIERS PROVE TO BE INEFFECTIVE, THE CONTRACTOR SHALL INSTALL SILT FENCE BEHIND THE HAY BALES.
2. VISUALLY INSPECT RIPRAP ONCE A WEEK OR AFTER EACH SIGNIFICANT RAINFALL AND REPAIR AS NEEDED. REMOVE SEDIMENT TRAPPED BEHIND THESE DEVICES ONCE IT ATTAINS A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE DAM OR RISER. DISTRIBUTE REMOVED SEDIMENT OFF-SITE OR TO AN AREA UNDERGOING FINAL GRADING.
3. REVEGETATION OF DISTURBED AREAS WITHIN 25' OF DRAINAGE-COURSE/STREAM WILL BE SEED WITH THE "MEADOW AREA MIX" AND INSPECTED ON A WEEKLY BASIS OR AFTER EACH SIGNIFICANT RAINFALL AND RESEED AS NEEDED. EXPOSED AREAS WILL BE RESEED AS NEEDED UNTIL THE AREA HAS OBTAINED 100% GROWTH RATE. PROVIDE PERMANENT RIPRAP FOR SLOPES IN EXCESS OF 3:1 AND WITHIN 25' OF DRAINAGE COURSE.
4. THE OWNER/ DEVELOPER / CONTRACTOR SHALL RETAIN A COPY OF THE EROSION CONTROL PLAN AT THE CONSTRUCTION SITE OR OTHER LOCATION ACCESSIBLE TO THE DEPARTMENT, LOCAL GOVERNMENT OFFICIALS, AND ANY OPERATOR OF A MUNICIPAL WATER SEWERAGE SYSTEM RECEIVING DISCHARGES FROM THE SITE, FROM PROJECT INITIATION TO PERMANENT STABILIZATION.
5. THE OWNER/ DEVELOPER / CONTRACTOR WILL MAINTAIN INSPECTION RECORDS (MAINTENANCE LOG SHEET) WITH RECORDINGS OF CONDITION OF BASINS, PIPES AND ANNOTATION OF SUBSTANTIAL PRECIPITATION EVENTS OR MITIGATING CIRCUMSTANCES IN THE INTERVENING TIME FOR TRENDDING TO DEVELOP THE ANTICIPATED PREVENTIVE MAINTENANCE SCHEDULE.
6. THE CONTRACTOR'S SITE INSPECTION LOGS SHALL BE MAINTAINED ONSITE AND AVAILABLE FOR REVIEW UPON REQUEST FROM MDEP OR LOCAL GOVERNMENT OFFICIALS WHICH IDENTIFIES INSPECTIONS COMPLETED, EROSION PROBLEMS FOUND, WHEN CORRECTIVE ACTION WAS TAKEN, AND WHO COMPLETED THE WORK.

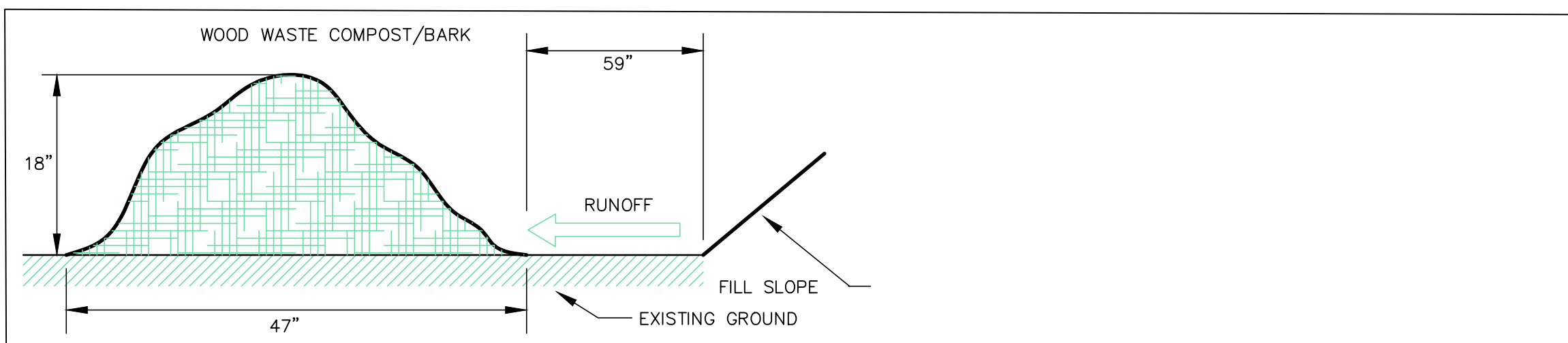
EROSION CONTROL DURING WINTER CONSTRUCTION:

1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHALL BE LIMITED TO THOSE AREAS TO BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. AT THE END OF EACH WORK WEEK NO AREAS MAY BE LEFT UNSTABILIZED OVER THE WEEKEND.
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 LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1000 S.F. (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED AND ANCHORED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH. NOTE: AN AREA IS ALSO CONSIDERED STABLE IF SODDED, COVERED WITH GRAVEL (PARKING LOTS) OR STRUCTURAL SAND.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW, DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY, SILT FENCE OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS SHOWN ON THE DESIGN DRAWINGS. NOTE: DORMANT SEEDING SHOULD NOT BE ATTEMPTED UNLESS SOIL TEMPERATURE REMAINS BELOW 50 DEGREES AND DAY TIME TEMPERATURES REMAIN IN THE 30'S.
7. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8% VEGETATED DRAINAGE SWALES SHALL BE LINED WITH EXCELSIOR OR CURLEX.
8. BETWEEN THE DATES OF OCTOBER 15 TO NOVEMBER 1, WINTER RYE IS RECOMMENDED FOR STABILIZATION. AFTER NOVEMBER 1, WINTER RYE IS NOT EFFECTIVE. AROUND NOVEMBER 15 OR LATER, ONCE TEMPERATURES OF THE AIR AND SOIL PERMIT, DORMANT SEEDING IS EFFECTIVE.
10. IN THE EVENT OF SNOWFALL (FRESH OR CUMULATIVE) GREATER THAN 1 INCH DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM THE AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

CONSTRUCTION PHASE:

THE FOLLOWING GENERAL PRACTICES WILL BE USED TO PREVENT EROSION DURING CONSTRUCTION OF THIS PROJECT.

1. PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE DOWN GRADIENT EDGE OF ANY AREA TO BE DISTURBED AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE DISTURBED AREA. SEDIMENT BARRIERS SHOULD BE INSTALLED DOWN GRADIENT OF SOIL OR SEDIMENT STOCKPILES AND STORMWATER PREVENTED FROM RUNNING ONTO STOCKPILE. MAINTAIN THE SEDIMENT BARRIERS BY REMOVING ACCUMULATED SEDIMENT, OR REMOVING AND REPLACING THE BARRIER, UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. WHERE A DISCHARGE TO A STORM DRAIN INLET OCCURS, IF THE STORM DRAIN CARRIES WATER DIRECTLY TO A SURFACE WATER AND YOU HAVE THE AUTHORITY TO ACCESS THE STORM DRAIN INLET, YOU MUST INSTALL AND MAINTAIN PROTECTION MEASURES THAT REMOVE SEDIMENT FROM THE DISCHARGE.
2. PRIOR TO CONSTRUCTION, PROPERLY INSTALL A STABILIZED CONSTRUCTION ENTRANCE (SCE) AT ALL POINTS OF EGRESS FROM THE SITE. THE SCE IS A STABILIZATION PAD OF AGGREGATE, UNDERLAIN BY A GEOTEXTILE FILTER FABRIC, USED TO PREVENT TRAFFIC FROM TRACKING MATERIAL AWAY FROM THE SITE ONTO PUBLIC ROW'S. MAINTAIN UNTIL ALL DISTURBED AREA ARE STABILIZED.
3. TOPSOIL WILL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM THE EXISTING DRAINAGE COURSE. NO STOCKPILE SHALL BE CLOSER THEN 100' OF A RESOURCE INCLUDING, BUT NOT LIMITED TO, WETLANDS, STREAMS, AND OPEN WATER BODIES. ALL STOCKPILES SHALL HAVE A SILTATION FENCE BEHIND THEM REGARDLESS OF TIME OF PRESENCE. ALL STOCKPILES EXPECTED TO REMAIN LONGER THAN 15 DAYS SHALL BE:
 - A. TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL).
 - B. SEEDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
 - C. INSTALL SILT FENCE AROUND STOCKPILE AT BASE OF PILE. STOCKPILES TO HAVE SILT FENCE INSTALLED AT TIME OF ESTABLISHMENT AT BASE OF PILE.
4. ALL DISTURBED AREAS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS SHALL BE EITHER:
 - A. TREATED WITH ANCHORED MULCH IMMEDIATELY, OR
 - B. SEEDED WITH CONSERVATION MIX OF ANNUAL RYE GRASS (0.9 LBS/1000 SQ. FT) AND MULCHED IMMEDIATELY.
5. ALL GRADING WILL BE HELD TO A MAXIMUM 2:1 SLOPE WHERE PRACTICAL. ALL SLOPES WILL BE STABILIZED WITH PERMANENT SEEDING, OR WITH STONE, WITHIN 7 DAYS AFTER FINAL GRADING IS COMPLETE. (SEE POST-CONSTRUCTION REVEGETATION FOR SEEDING SPECIFICATION.)
6. ALL CULVERTS WILL BE PROTECTED WITH STONE RIPRAP (D50 = 6" UNLESS OTHERWISE SPECIFIED) AT INLETS AND OUTLETS.



SPECIFICATIONS:
 1) ORGANIC CONTROL MIX CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPERATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS OR BARK CHIPS ARE NOT ACCEPTABLE AS ORGANIC COMPONENT OF THE MIX.

EROSION CONTROL MIX CONTAINS A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH.

- COMPOSITION:**
- 1) ORGANIC MATTER CONTENT IS 80 TO 100%, DRY WEIGHT BASIS.
 - 2) PARTIAL SIZE BY WEIGHT IS 100% PASSING A 6" SCREEN AND MINIMUM OF 70% MAXIMUM OF 85%, PASSING A 0.75" SCREEN.
 - 3) THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - 4) LARGE PORTION OF SILTS, CLAYS OR FINE SAND ARE NOT ACCEPTABLE IN THE MIX.
 - 5) SOLUBLE SALTS CONTENT IS LESS THAN 4.0 mmhos/cm.
 - 6) THE pH SHOULD FALL BETWEEN 5.0 AND 8.0.

- CONSIDERATIONS:**
- SEDIMENT BARRIERS SHOULD NOT BE USED IN STREAMS & LARGE DRAINAGE WAYS!
 - EXTEND BARRIERS UPHILL OR REPLACE WITH TEMPORARY CHECK DAMS WHERE EVIDENCE OF FLOW AROUND BARRIES EXISTS.
 - SEDIMENT BARRIERS TO BE INSTALLED PRIOR TO SOIL DISTURBANCE IN DRAINAGE AREA ABOVE THEM.

NOTE:
 WOOD WASTE COMPOST/BARK FILTER BERMS MAY BE USED IN COMBINATION WITH SILT FENCE TO IMPROVE SEDIMENT REMOVAL AND PREVENT CLOGGING OF THE WOOD WASTE COMPOST/BARK BERM BY LARGER SEDIMENT PARTICLES. (SILT FENCE PLACED TO FILTER RUNOFF BEFORE WOOD WASTE COMPOST/BARK)

EROSION CONTROL MIX BERM

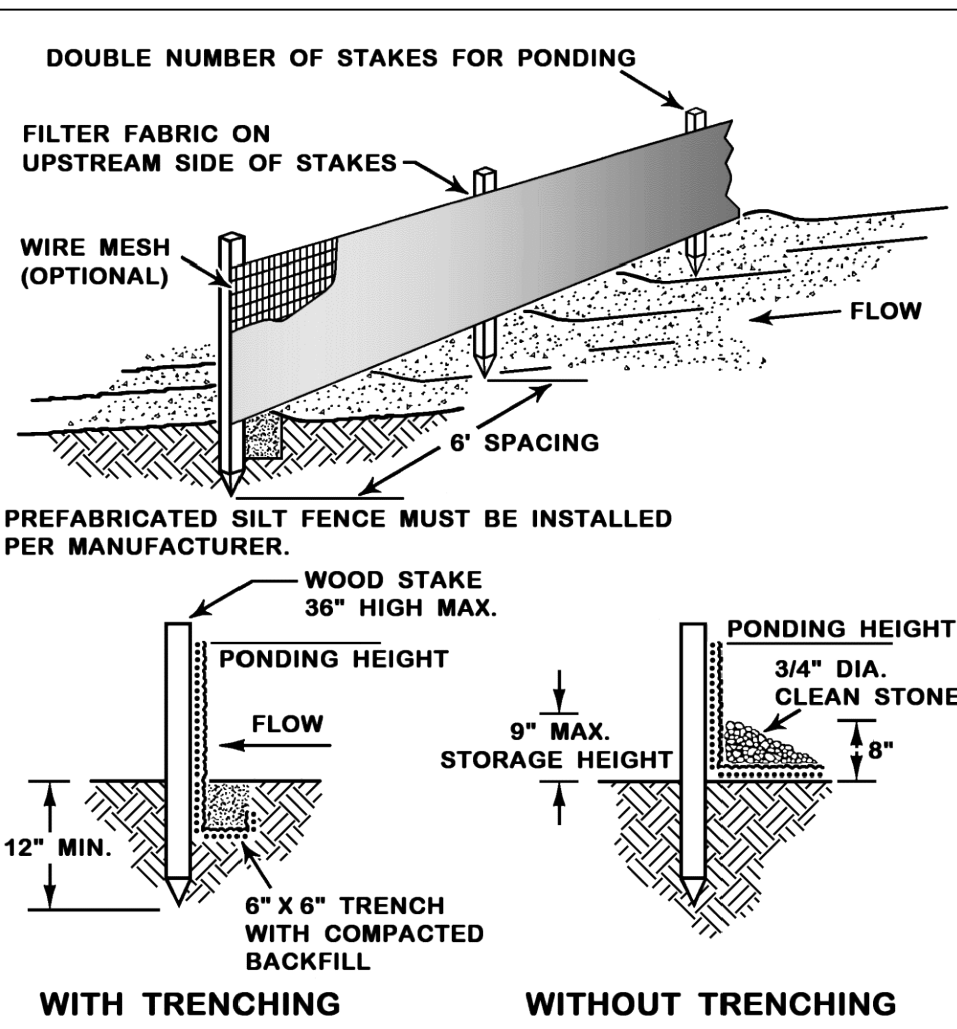
NOT TO SCALE

- MAINTENANCE:**
- INSPECT REGULARLY & AFTER EACH LARGE RAINFALL. REPAIRS SHALL BE DONE IMMEDIATELY W/ ADDITIONAL EROSION CONTROL MIX TO REACH DESIRED HEIGHT & WIDTH.
 - SIGNS OF UNDERCUTTING AT CENTER OR EDGES OR SIGNS OF IMPOUNDING LARGE VOLUMES OF WATER BEHIND BARRIER, REINFORCEMENT W/ ADDITIONAL SEDIMENT BARRIER, SUCH AS A TEMPORARY ROCK CHECK DAM MAY BE REQUIRED.
 - SEDIMENT DEPOSITS TO BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF BARRIER.
 - BARRIERS DECOMPOSED, CLOGGED W/ SEDIMENT, ERODED OR INEFFECTIVE, MUST BE REPLACED OR REPAIRED. RESHAPE AS NEEDED.
 - EROSION CONTROL MIX BARRIERS CAN BE LEFT IN PLACE. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER CONSTRUCTION SHOULD BE SPREAD TO CONFORM TO EXISTING GRADE, SEED & MULCHED.

INSTALLATION OF SEDIMENT BARRIERS:

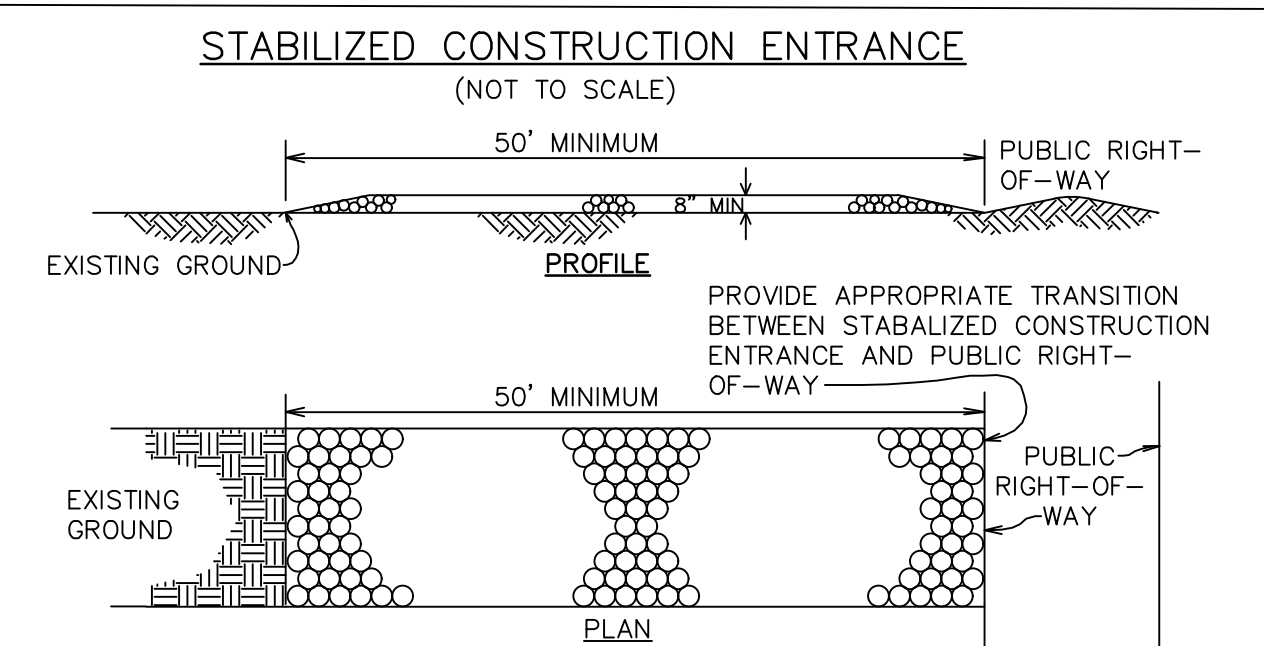
- SLOPES LESS THAN 5% OR BOTTOM OF STEEPER SLOPES (<2:1) UP TO 20' LONG, BARRIER SHOULD BE MINIMUM OF 12" HIGH, MEASURED ON UPHILL SIDE OF BARRIER, MINIMUM OF 2' WIDE. LONGER/STEEPER SLOPES, BARRIER SHOULD BE WIDER TO ACCOMMODATE ADDITIONAL FLOW.
- BARRIER MUST BE PLACED ALONG RELATIVELY LEVEL CONTOUR, CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
- STAND-ALONE USE WITHOUT REINFORCEMENT BY BMP'S:
 - AT TOE OF SHALLOW SLOPES;
 - ON FROZEN GROUND, OUTCROPS OF BEDROCK, VERY ROOTED FORESTED AREAS.
 - AT EDGE OF GRAVEL PARKING AREAS, AREAS UNDER CONSTRUCTION.
- LOCATIONS WHERE OTHER BMP'S SHOULD BE USED:

- AT LOW POINTS OF CONCENTRATED RUNOFF;
- BELOW CULVERT OUTLET APRONS;
- WHERE STAND-ALONE'S FAIL;
- BOTTOM OF STEEP PERIMETER SLOPES W/ MORE THAN 50' TOP TO BOTTOM (i.e., A LARGE UP-GRADIENT CONTRIBUTING WATERSHED); AND
- AROUND CATCHBASINS & CLOSED STORM SYSTEMS.



CONSTRUCTION SPECIFICATIONS:

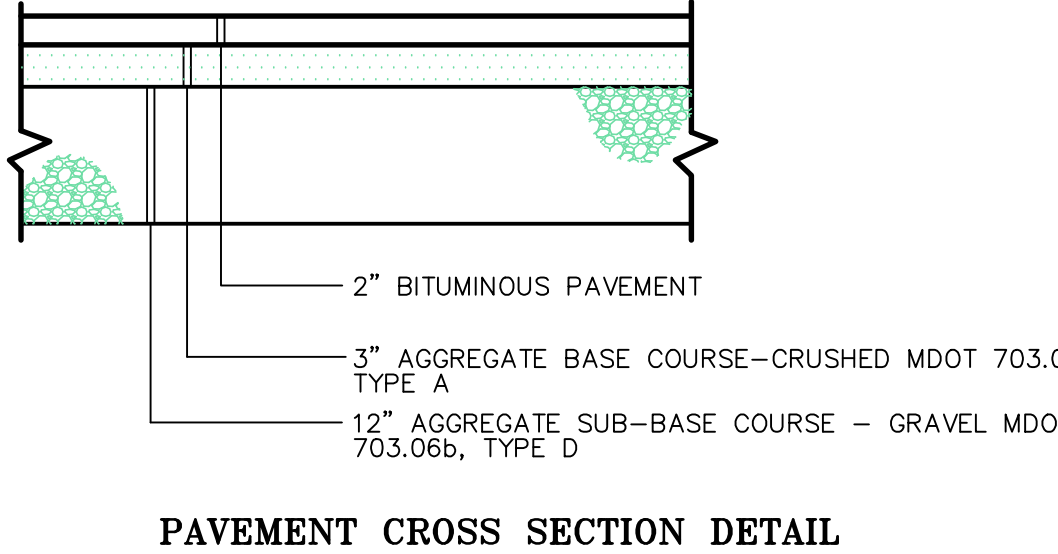
1. THE FENCE SHOULD BE ANCHORED TO RESIST PULL-OUT, AND BE STRETCHED TIGHTLY BETWEEN STAKES TO PREVENT SAGGING.
2. A 6-INCH WIDE AND 6-INCH DEEP TRENCH SHOULD BE EXCAVATED UPGRADIENT OF THE FENCE LINE TO KEY THE "FLAP" OF THE FABRIC. THE TRENCH IS BACKFILLED AND COMPACTED.
3. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHOULD BE SPLICED BY WRAPPING END OF STAKES TOGETHER.
4. IN AREAS WHERE THE FLAP CANNOT BE KEVED PROPERLY (DUE TO FROZEN GROUND, BEDROCK, STONY SOIL, ROOTS, NEAR A PROTECTED NATURAL RESOURCE, ETC.), THE SILT FENCE SHOULD BE ANCHORED WITH AGGREGATE, CRUSHED STONE, EROSION CONTROL MIX, OR OTHER MATERIAL.



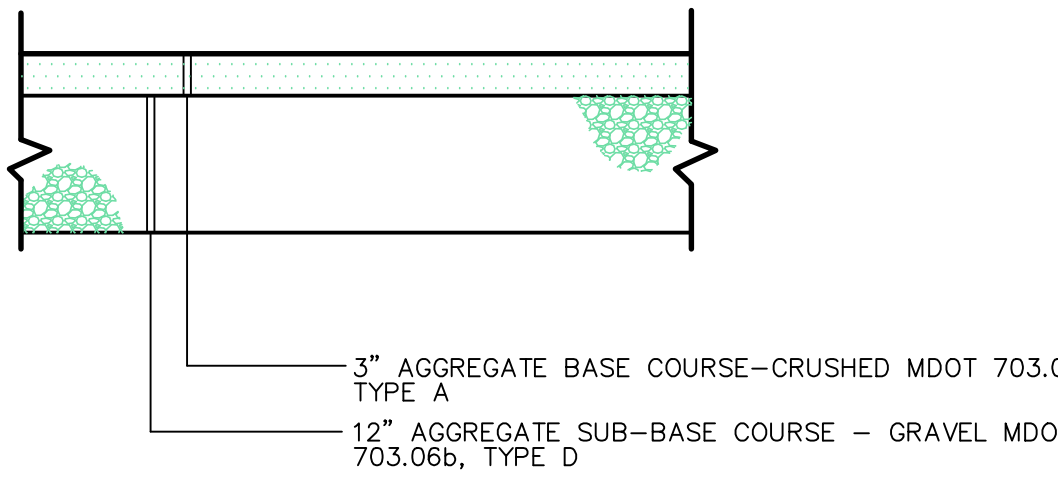
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - AASHTO DESIGNATION M 43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OF SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

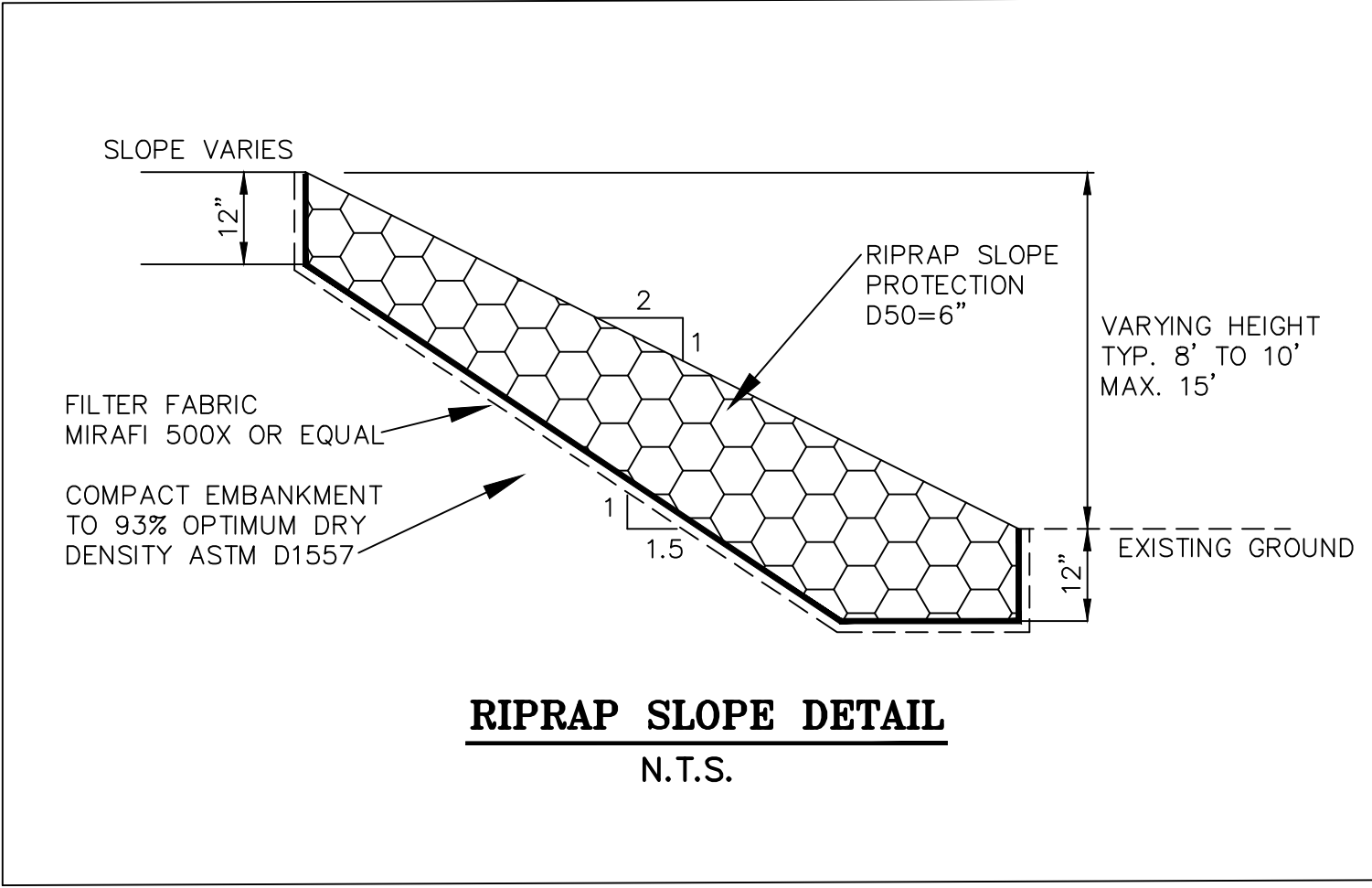
STANDARD SYMBOL



PAVEMENT CROSS SECTION DETAIL

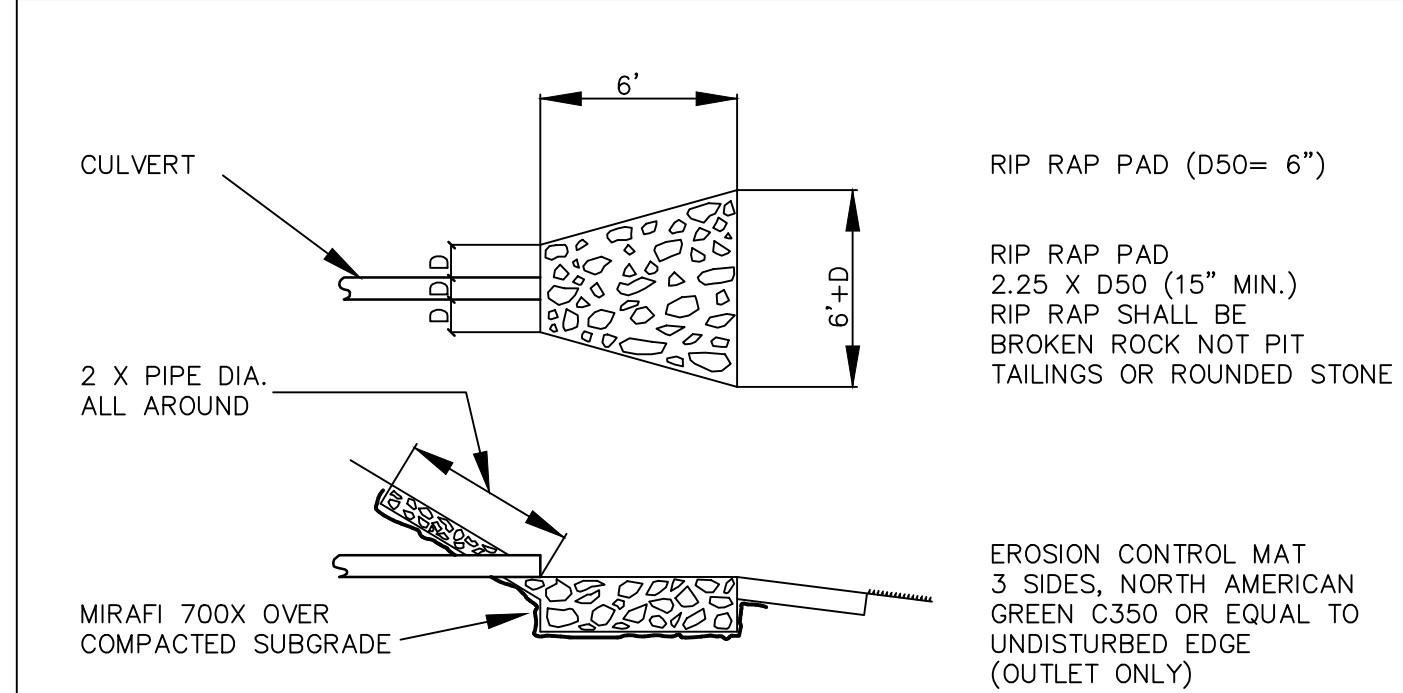


GRAVEL CROSS SECTION DETAIL



RIPRAP SLOPE DETAIL

N.T.S.



PIPE INLET/OUTLET PROTECTION

N.T.S.

PROGRESS PLAN
NOT FOR CONSTRUCTION
 THIS DOCUMENT IS ISSUED FOR INFORMATIONAL PURPOSES ONLY. THE DATA SHOWN HEREON IS SUBJECT TO REVISION.

I HEREBY CERTIFY THAT THE INFORMATION SHOWN ON THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE.

STATE OF MAINE
 PAUL P. GADBOIS
 4521
 PROFESSIONAL ENGINEER

Paul P. Gadbois
 PAUL P. GADBOIS, P.E. # 4521

REVISIONS:
 DRAWN: P.P.G.
 CHECKED: P.P.G.
 SCALE:
 FIELD BOOK:
 DATE: 01-19-2023
 JOB NO. 1821
 SHEET 3 OF 4

RECORD OWNER
 DCB PROPERTIES
 20 TECHNOLOGY DRIVE
 ARUNDEL, MAINE

EROSION CONTROL NOTES
 TIMBER FRAMES
 PORTLAND ROAD
 ARUNDEL, MAINE

PAUL P. GADBOIS
 ENGINEERING SURVEYING
 LAND PLANNING
 ARUNDEL, MAINE
 P.O. BOX 327, SAO, MAINE 04972
 (207) 283-3980

Paul P. Gadbois

MAINE CONSTRUCTION GENERAL PERMIT

APPENDICES -- BASIC PERFORMANCE STANDARDS

- APPENDIX A. EROSION AND SEDIMENTATION CONTROL. 1
- APPENDIX B. INSPECTION AND MAINTENANCE 4
- APPENDIX C. HOUSEKEEPING 4

APPENDIX A. EROSION AND SEDIMENTATION CONTROL

A PERSON WHO CONDUCTS, OR CAUSES TO BE CONDUCTED, AN ACTIVITY THAT INVOLVES FILLING, DISPLACING OR EXPOSING SOIL OR OTHER EARTHEN MATERIALS SHALL TAKE MEASURES TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO A PROTECTED NATURAL RESOURCE AS DEFINED IN 38 M.R.S.A. § 480-B. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE THE ACTIVITY BEGINS. MEASURES MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL THE SITE IS PERMANENTLY STABILIZED. ADEQUATE AND TIMELY TEMPORARY AND PERMANENT STABILIZATION MEASURES MUST BE TAKEN.

NOTE: THE SITE MUST BE MAINTAINED TO PREVENT UNREASONABLE EROSION AND SEDIMENTATION. SEE 38 M.R.S.A. § 420-C (IN PART). A LICENSE IS REQUIRED FOR ANY STORMWATER DISCHARGE THAT THE DEPARTMENT DETERMINES TO CONTRIBUTE TO A VIOLATION OF A WATER QUALITY STANDARD OR IS A SIGNIFICANT CONTRIBUTOR OF POLLUTANTS TO WATERS OF THE STATE". 06-096 CMR 521(09)(A)(1)(V)(IN PART).

(1) **POLLUTION PREVENTION.** MINIMIZE DISTURBED AREAS AND PROTECT NATURAL DOWNGRADIENT BUFFER AREAS TO THE EXTENT PRACTICABLE. THE DISCHARGE MAY NOT RESULT IN EROSION OF ANY OPEN DRAINAGE CHANNELS, SWALES, UPLAND, OR COASTAL OR FRESHWATER WETLANDS.

NOTE: BUFFERS IMPROVE WATER QUALITY BY HELPING TO FILTER POLLUTANTS IN RUN-OFF BOTH DURING AND AFTER CONSTRUCTION. MINIMIZING DISTURBED AREAS THROUGH PHASING LIMITS THE AMOUNT OF EXPOSED SOIL ON THE SITE THROUGH RETENTION OF NATURAL COVER AND BY RETIRING AREAS AS PERMANENTLY STABILIZED. LESS EXPOSED SOIL RESULTS IN FEWER EROSION CONTROLS TO INSTALL AND MAINTAIN. IF WORK WITHIN AN AREA IS NOT ANTICIPATED TO BEGIN WITHIN TWO WEEKS TIME, CONSIDER LEAVING THE AREA IN ITS NATURALLY EXISTING COVER.

(2) **SEDIMENT BARRIERS.** PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE EDGE OF ANY DOWNGRADIENT DISTURBED AREA AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE DISTURBED AREA. MAINTAIN THE SEDIMENT BARRIERS UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.

(3) **TEMPORARY STABILIZATION.** STABILIZE WITH MULCH, OR OTHER NON-ERODABLE COVER ANY EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. STABILIZE AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.

NOTE: FOR GUIDANCE ON EROSION AND SEDIMENTATION CONTROLS, CONSULT THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION -- BEST MANAGEMENT PRACTICES OR THE MAINE EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES.

(1) **REMOVAL OF TEMPORARY MEASURES.** REMOVE ANY TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE.

NOTE: IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

(1) **PERMANENT STABILIZATION.** IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, THEN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB-BASE. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS; AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS; PROTECT SEEDING AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS, AND SCHEDULE SODDING, PLANTING, AND SEEDING SO TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDING OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL-ESTABLISHED. IF NECESSARY, AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE. PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS SEVERED, ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

(a) **SEEDED AREAS.** FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

(b) **SODDED AREAS.** FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.

(c) **PERMANENT MULCH.** FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.

(d) **RIPRAP.** FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF A WELL-GRADED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP. STONE MUST BE SIZED APPROPRIATELY. IT IS RECOMMENDED THAT ANGULAR STONE BE USED.

(e) **AGRICULTURAL USE.** FOR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL PURPOSES (E.G., PIPELINES ACROSS CROP LAND), PERMANENT STABILIZATION MAY BE ACCOMPLISHED BY RETURNING THE DISTURBED LAND TO AGRICULTURAL USE.

(f) **PAVED AREAS.** FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED.

(g) **DITCHES, CHANNELS, AND SWALES.** FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH MATURE VEGETATION AT LEAST THREE INCHES IN HEIGHT, WITH WELL-GRADED RIPRAP LINING, OR WITH ANOTHER NON-EROSIVE LINING CAPABLE OF WITHSTANDING THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHOUT RELIANCE ON CHECK DAMS TO SLOW FLOW. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE LINING, UNDERCUTTING OF THE BANKS, OR DOWN-CUTTING OF THE CHANNEL.

(6) **WINTER CONSTRUCTION.** "WINTER CONSTRUCTION" IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 15. IF AREAS WITHIN THE CONSTRUCTION ACTIVITY ARE NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES OUTLINED ABOVE BY NOVEMBER 15, THEN THE SITE MUST BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES THAT ARE SPECIFIC TO WINTER CONDITIONS. NO MORE THAN ONE ACRE OF THE SITE MAY BE WITHOUT STABILIZATION AT ONE TIME.

(a) **SITE STABILIZATION.** FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

(b) **SEDIMENT BARRIERS.** ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS.

(c) **DITCH.** ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE DEPARTMENT.

(d) **SLOPES.** MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.

NOTE: FOR GUIDANCE ON WINTER CONSTRUCTION STANDARDS, SEE THE "MAINE EROSION AND SEDIMENT CONTROL BMPs", MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(7) **STORMWATER CHANNELS.** DITCHES, SWALES, AND OTHER OPEN STORMWATER CHANNELS MUST BE DESIGNED, CONSTRUCTED, AND STABILIZED USING MEASURES THAT ACHIEVE LONG-TERM EROSION CONTROL. DITCHES, SWALES AND OTHER OPEN STORMWATER CHANNELS MUST BE SIZED TO HANDLE, AT A MINIMUM, THE EXPECTED VOLUME RUN-OFF. EACH CHANNEL SHOULD BE CONSTRUCTED IN SECTIONS SO THAT THE SECTION'S GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING CAN BE COMPLETED THE SAME DAY. IF THE CHANNEL'S FINAL GRADING OR LINING INSTALLATION MUST BE DELAYED, THEN DIVERSION BERMS MUST BE USED TO DIVERT STORMWATER AWAY FROM THE CHANNEL. PROPERLY-SPACED CHECK DAMS MUST BE INSTALLED IN THE CHANNEL TO SLOW THE WATER VELOCITY, AND A TEMPORARY LINING INSTALLED ALONG THE CHANNEL TO PREVENT SCOURING. PERMANENT STABILIZATION FOR CHANNELS IS ADDRESSED UNDER APPENDIX A(5)(G) ABOVE.

NOTE: (1) THE CHANNEL SHOULD RECEIVE ADEQUATE ROUTINE MAINTENANCE TO MAINTAIN CAPACITY AND PREVENT OR CORRECT ANY EROSION OF THE CHANNELS BOTTOM OR SIDE SLOPES. (2) WHEN THE WATERSHED DRAINING TO A DITCH OR SWALE IS LESS THAN 1 ACRE OF TOTAL DRAINAGE AND LESS THAN 1/4 ACRE OF IMPERVIOUS AREA, DIVERSION OF RUNOFF TO ADJACENT WOODED OR OTHERWISE VEGETATED BUFFER AREAS IS ENCOURAGED WHERE THE OPPORTUNITY EXISTS.

(1) **ROADS.** GRAVEL AND PAVED ROADS MUST BE DESIGNED AND CONSTRUCTED WITH CROWNS OR OTHER MEASURES, SUCH AS WATER BARS, TO ENSURE THAT STORMWATER IS DELIVERED IMMEDIATELY TO ADJACENT STABLE DITCHES, VEGETATED BUFFER AREAS, CATCH BASIN INLETS, OR STREET GUTTERS.

NOTE: (1) GRAVEL AND PAVED ROADS SHOULD BE MAINTAINED SO THAT THEY CONTINUE TO CONFORM TO THIS STANDARD IN ORDER TO PREVENT EROSION PROBLEMS. (2) THE DEPARTMENT RECOMMENDS THAT IMPERVIOUS SURFACES, INCLUDING ROADS, BE DESIGNED AND CONSTRUCTED SO THAT STORMWATER IS DISTRIBUTED IN SHEET FLOW TO NATURAL VEGETATED BUFFER AREAS WHEREVER SUCH AREAS ARE AVAILABLE. ROAD DITCHES SHOULD BE DESIGNED SO THAT STORMWATER IS FREQUENTLY (AT LEAST EVERY 100 TO 200 FEET) DISCHARGED VIA DITCH TURNOUTS IN SHEET FLOW TO ADJACENT NATURAL BUFFER AREAS WHEREVER POSSIBLE.

(1) **CULVERTS.** CULVERTS MUST BE SIZED TO AVOID UNINTENDED FLOODING OF UPSTREAM AREAS OR FREQUENT OVERTOPPING OF ROADWAYS. CULVERT INLETS MUST BE PROTECTED WITH APPROPRIATE MATERIALS FOR THE EXPECTED ENTRANCE VELOCITY, AND PROTECTION MUST EXTEND AT LEAST AS HIGH AS THE EXPECTED MAXIMUM ELEVATION OF STORAGE BEHIND THE CULVERT. CULVERT OUTLET DESIGN MUST INCORPORATE MEASURES, SUCH AS APRONS OR PLUNGE POOLS, TO PREVENT SCOUR OF THE STREAM CHANNEL. OUTLET PROTECTION MEASURES MUST BE DESIGNED TO STAY WITHIN THE CHANNEL LIMITS. THE DESIGN MUST TAKE ACCOUNT OF TAILWATER DEPTH.

(2) **PARKING AREAS.** PARKING AREAS MUST BE CONSTRUCTED TO ENSURE RUNOFF IS DELIVERED TO ADJACENT SWALES, CATCH BASINS, CURB GUTTERS, OR BUFFER AREAS WITHOUT ERODING AREAS DOWNSLOPE. THE PARKING AREA'S SUBBASE COMPACTION AND GRADING MUST BE DONE TO ENSURE RUNOFF IS EVENLY DISTRIBUTED TO ADJACENT BUFFERS OR SIDE SLOPES. CATCH BASINS MUST BE LOCATED AND SET TO PROVIDE ENOUGH STORAGE DEPTH AT THE INLET SO TO ALLOW INFLOW OF PEAK RUNOFF RATES WITHOUT BY-PASS OF RUNOFF TO OTHER AREAS.

(3) **ADDITIONAL REQUIREMENTS.** ADDITIONAL REQUIREMENTS MAY BE APPLIED ON A SITE-SPECIFIC BASIS.

APPENDIX B. INSPECTION AND MAINTENANCE

(1) **INSPECTION AND MAINTENANCE.** INSPECT DISTURBED AND IMPERVIOUS AREAS, AND EROSION AND STORMWATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK AS WELL AS AND BEFORE AND AFTER A STORM EVENT, AND PRIOR TO COMPLETION OF PERMANENT STABILIZATION MEASURES. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS IN THIS PERMIT AND ANY DEPARTMENTAL COMPANION DOCUMENT TO THIS PERMIT, MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

(2) **INSPECTION LOG (REPORT).** A LOG (REPORT) MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVIDED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATIONS WHERE ADDITIONAL BMPs ARE NEEDED, FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs. NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

APPENDIX C. HOUSEKEEPING

THESE PERFORMANCE STANDARDS APPLY TO ALL SITES.

(1) **SPILL PREVENTION.** CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.

(2) **GROUNDWATER PROTECTION.** DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.

NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPs) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY 38 M.R.S.A. §465-C(1). ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

(1) **FUGITIVE SEDIMENT AND DUST.** ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.

EXAMPLES OF BMPs -- OPERATIONS DURING WET MONTHS, THAT EXPERIENCE TRACKING OF MUD OFF THE CONSTRUCTION SITE ONTO PUBLIC ROADS, SHOULD PROVIDE FOR SWEEPING OF ROAD AREAS AT LEAST ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. WHERE CHRONIC MUD TRACKING OCCURS, A STABILIZED CONSTRUCTION ENTRANCE SHOULD BE PROVIDED. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN THE ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY IF NEEDED.

NOTE: DEWATERING A STREAM WITHOUT A PERMIT FROM THE DEPARTMENT VIOLATES STATE WATER QUALITY STANDARDS AND THE NATURAL RESOURCES PROTECTION ACT.

(1) **DEBRIS AND OTHER MATERIALS.** LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL, AND HAZARDOUS WASTE, INCLUDING, BUT NOT LIMITED TO, THE MAINE SOLID WASTE AND HAZARDOUS WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE MANAGEMENT RULES; MAINE OIL CONVEYANCE AND STORAGE RULES; AND MAINE PESTICIDE REQUIREMENTS.

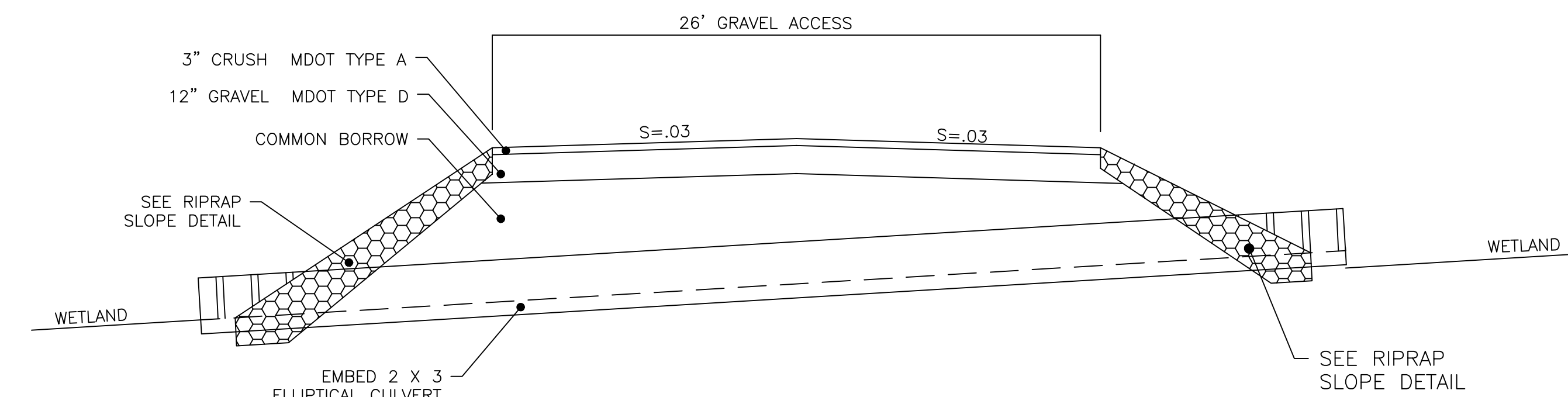
(1) **TRENCH OR FOUNDATION DE-WATERING.** TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE.

NOTE: FOR GUIDANCE ON DE-WATERING CONTROLS, CONSULT THE MAINE EROSION AND SEDIMENT CONTROL BMPs", MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION."

(1) **NON-STORMWATER DISCHARGES.** IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:

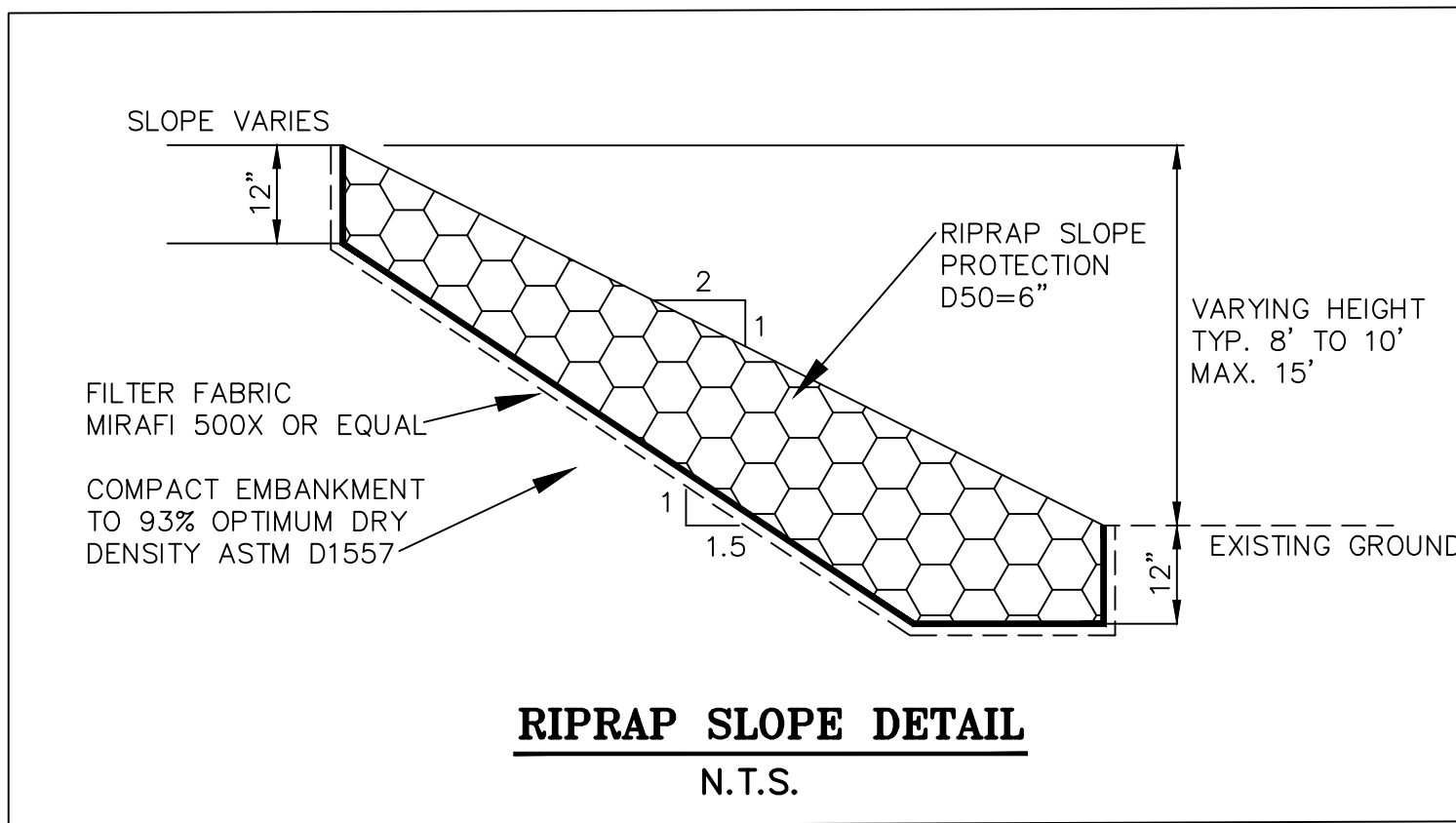
- (i) DISCHARGES FROM FIREFIGHTING ACTIVITY;
- (ii) FIRE HYDRANT FLUSHINGS;
- (iii) VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
- (iv) DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX C(3);
- (v) ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
- (vi) PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
- (vii) UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- (viii) UNCONTAMINATED GROUNDWATER OR SPRING WATER;
- (ix) FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED; AND
- (x) UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX C(5)).
- (vi) POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS.

ALLOWABLE NON-STORMWATER DISCHARGES CANNOT BE AUTHORIZED UNDER THIS PERMIT UNLESS THEY ARE DIRECTLY RELATED TO AND ORIGINATE FROM A CONSTRUCTION SITE OR DEDICATED SUPPORT ACTIVITY (E.G., A PRESSURE WASHING COMPANY CANNOT BROADLY USE THIS GENERAL PERMIT FOR THEIR BUSINESS OPERATIONS, BECAUSE GENERAL VEHICLE WASHING IS NOT ASSOCIATED WITH A CONSTRUCTION SITE), IT IS NOT NECESSARY TO LIST THESE SOURCES OF NON-STORMWATER IN THE NOL

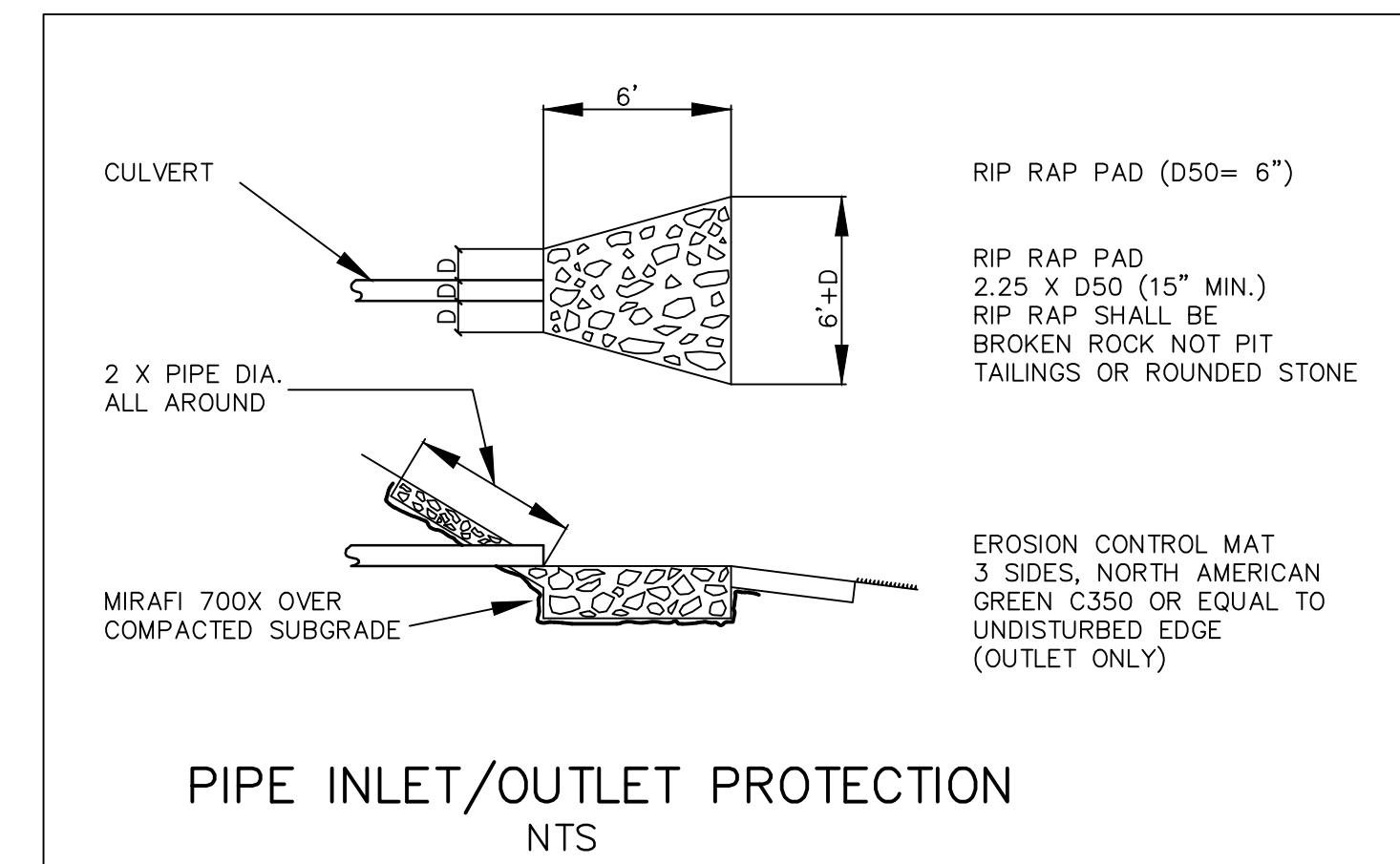


WETLAND CROSSING

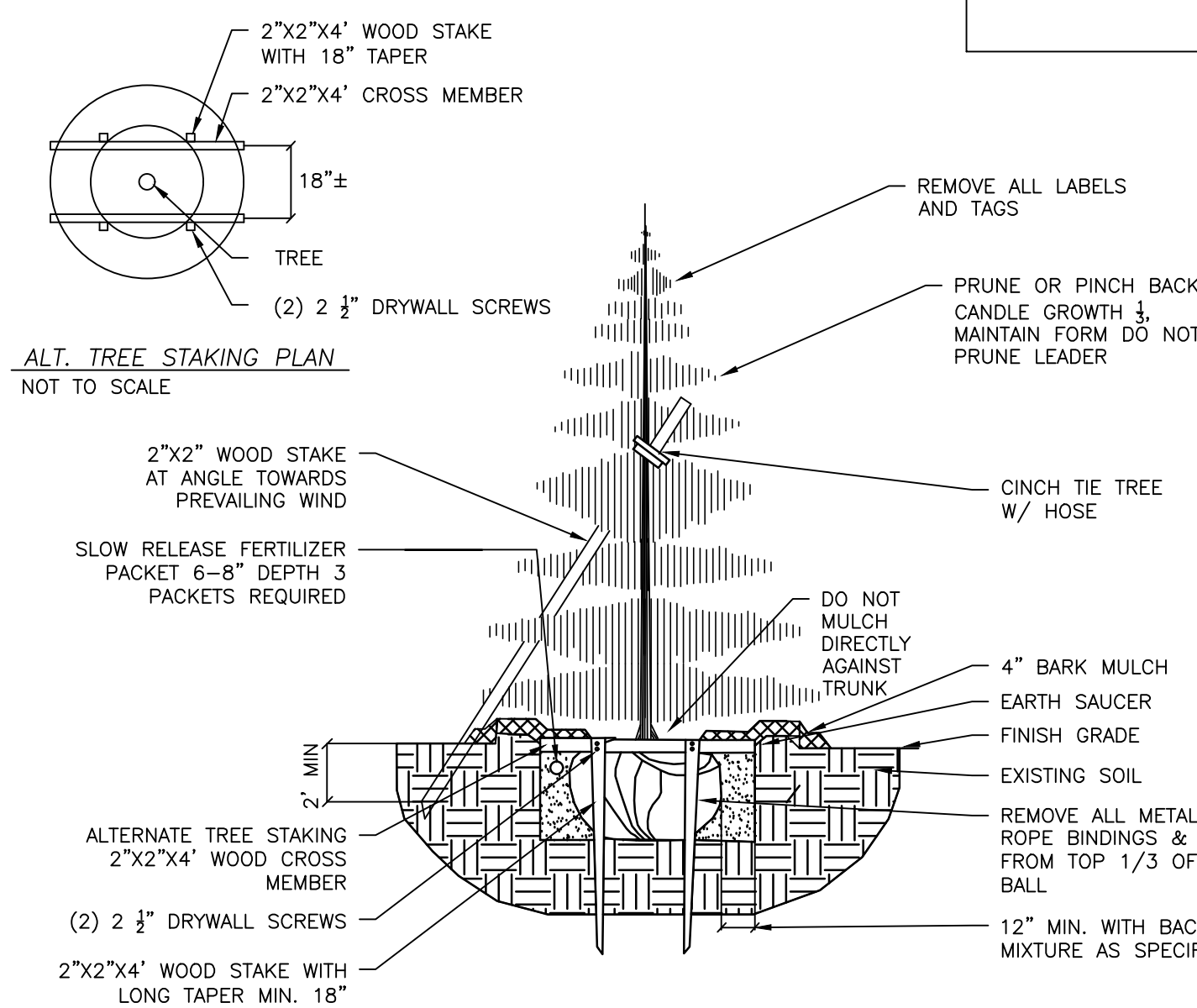
NOTE: AS A CONDITION OF APPROVAL BY THE CORPS OF ENGINEERS THE 2 X 3 ELLIPTICAL CULVERT SHALL BE EMBEDDED A MINIMUM OF 6" INTO THE WETLAND. THIS MAYBE ACCOMPLISHED BY BLASTING OR HAMMERING AS REQUIRED OR AS AN ALTERNATE USE A BOTTOMLESS ARCH CULVERT.



RIPRAP SLOPE DETAIL
N.T.S.



PIPE INLET/OUTLET PROTECTION
N.T.S.



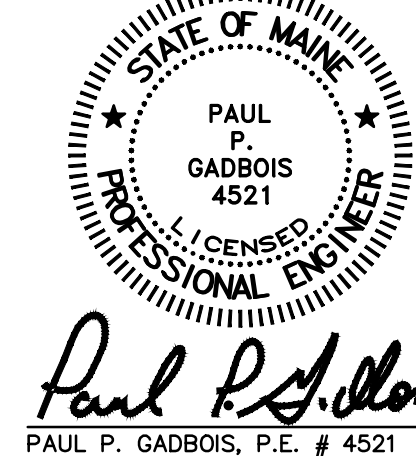
- NOTES:
INSTALL STAKES AND GUYS TO TREES IF THE FOLLOWING APPLY:
1. THE TREE IS OF SUBSTANTIAL SIZE.
2. THE PLANTING LOCATION IS EXTREMELY WINDY, AS ON OPEN UNDEVELOPED SITES.
3. THE PLANTING LOCATION IS COMPRISED OF SAND OR OTHER LOOSE TEXTURED SOILS.
4. IF STAKES AND GUYS ARE REQUIRED, REMOVE AFTER ONE YEAR.

EVERGREEN TREES
NOT TO SCALE 7'-0" IN HEIGHT & UNDER

PROGRESS PLAN
NOT FOR CONSTRUCTION

THIS DOCUMENT IS ISSUED FOR INFORMATIONAL PURPOSES ONLY. THE DATA SHOWN HEREON IS SUBJECT TO REVISION.

I HEREBY CERTIFY THAT THE INFORMATION SHOWN ON THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE.



Paul P. Gadbois
PAUL P. GADBOIS, P.E. # 4521

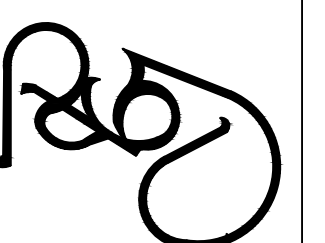
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					SHEET 4 OF 4

RECORD OWNER
DCB PROPERTIES
20 TECHNOLOGY DRIVE
ARUNDEL, MAINE

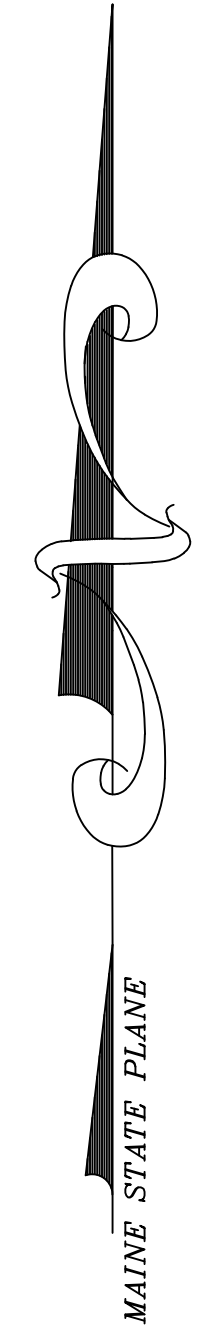
EROSION CONTROL NOTES
TIMBER FRAMES
PORTLAND ROAD
ARUNDEL, MAINE

PAUL P. GADBOIS
ENGINEERING SURVEYING
LAND PLANNING

P.O. BOX 327, SAO, MAINE 04072
(207) 283-3980

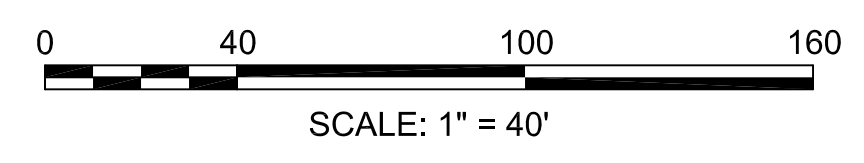


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STORMWATER LEGEND

	HYDROCAD POND
	HYDROCAD SUBAREA
	HYDROCAD REACH
	TC FLOW PATH
	REACH
	WATERSHED BOUNDARY



<p>RECORD OWNER DCB PROPERTIES 20 TECHNOLOGY DRIVE ARUNDEL, MAINE</p>	<p>REVISIONS:</p>
	<p>DRAWN: P.P.G. CHECKED: P.P.G. SCALE: 1" = 40' FIELD BOOK: DATE: 01-19-2023 JOB NO. 1821 SHEET 2 OF 2</p>
<p>POST DEVELOPMENT TIMBER FRAMES PORTLAND ROAD ARUNDEL, MAINE</p>	
<p>PAUL P. GADBOIS ENGINEERING SURVEYING LAND PLANNING P.O. BOX 327, SAO, MAINE 04072 (207) 283-3980</p>	

