

4846 Sun City Center Blvd., #300 Sun City Center, FL 33573-6281 (207) 513-6123

May 20, 2022

Erin Zwirko, Director Planning & Development Town of Yarmouth 200 Main Street Yarmouth, ME 04096

Re: 109 Sunset Point Road Shoreland Zoning Application

Dear Erin:

On behalf of Maria Atkins (Atkins), please accept this letter and attachments to support our application to replace her existing cottage with a new home on her lot located at 109 Sunset Point Road. The property is located in the Low Density Residential (LDR) District and is also subject to the Shoreland Overlay requirements. The parcel is shown as Lot 53 on Map 24 of the Town Tax Maps.

Since submittal several questions or comments have been expressed about our application materials. This letter repeats those comments and provides our response to support approvals of this application.

The application and the drawings do not show the dimensions of the proposed shoreline staircase.

It is our intent to secure approvals for the stairs leading to the water. Those steps with be 4' wide granite steps. The steps will be about 20' long with May 20, 2022 Erin Zwirko, Director RE: 109 Sunset Point Road Page 2

the top step set at elevation 17.5 and the bottom step set at about elevation 7.5 depending upon use of 6" or 7" risers.

Water setbacks need to be made from the highest annual tide which is the astronomical tide line.

The existing cottage is set back from the astronomical high tide about 22.3' on the southwesterly side, 45' on the northwesterly side, and over 75' on the southeasterly side.

Setbacks for the new home from the astronomical tide have increased from 22.3' to 26.4' on the southwesterly side and from 45' to 45.1' on the northwesterly side. Setbacks from the ocean on the southeasterly side are still more than 75', now at 85'.

Details for the use of crane matts to protect the oak tree from damage to its root system should be provided.

If construction activities require use of heavy equipment within the area identified with silt fence around the oak tree, crane matts will be used to protect the tree's root system. Jones Associates, Inc. has provided the attached details for the placement and installation of crane matts should it become necessary.

The DPW Director recommends that the finish driveway end at their property line and apron be paved the rest of the way to the street.

Given the irregular shape of the property line adjacent to the street, we have shown a 6' wide paved apron between the edge of the street pavement to the beginning of the brick or concrete pavers. Details for pavement cuts and construction on this paved section have also been added to the plan set.

A letter of no impact from Maine Historic Preservation Commission (MHPC) is requested as a condition of approval.

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The attached request was emailed to MHPC on May 6^{th} . We will provide their response as soon as it is received.

Screening for the generator.

The applicant has previously agreed to replace the fence that once stood along the Bicknell property line. See letter from Trademark, Inc. to the Bicknell Family attached. Based upon comments from Nick Ciarimboli, we have also moved the propane tank for that generator to be a minimum of 10' from the new home.

Foundation layout provided by a surveyor prior to construction.

The applicant agrees with this request.

We have attached a complete set of site plans prepared by Acorn Engineering showing the changes discussed above. I hope you find that this letter and attachments provide the documentation you need to complete the review of our application. Please feel free to contact me with any questions you may have.

Respectfully Yours

STONEYBROOK LAND USE, INC.

Michael F. Gotto

cc: Maria Atkins



<u>Trademark, Inc.</u>

5/10/2022

Dear Bicknell family,

My name is Ben Trout and I am writing this letter on behalf of Trademark, inc. Trademark, inc. is the general contractor selected to build the Atkins residence next door to your property at Sunset Point in Yarmouth. The purpose of this letter is to assure you that there will be no blasting involved in the construction of the Atkins residence. In the unlikely event we need to remove ledge we would use Hydraulic hammering. [test bores on the site found no evidence of ledge.]

I also want to assure you that we agree to the following:

-Heavy equipment only from Mid-October to May 1. After that light vehicles only for the purposes of turning around.

-Construction activity will continue into the summer. My target date for substantial completion is July-August, 2023 if we start mid October 2022.

-We will repair the dooryard to its present condition.

-Maria Atkins agrees to construct a fence [by a reputable company such as Maine Line Fence] between the Bicknell and Atkins properties

-The Bicknells' are held harmless for any liability/injury/etc. on their property during construction activities.

-We will clean up from the town plows at the end of the snow season.

-We are responsible for damage to any utilities on the Bicknell property related to construction activities.

We appreciate your good will and will do our best to keep the site clean and respect your property.

Sincerely,

- The

Ben Trout President, Trademark, inc.



4846 Sun City Center Blvd., #300 Sun City Center, FL 33573-6281 (207) 513-6123

May 6, 2022

Kirk F. Mohney, Director Maine Historic Preservation Commission 65 State House Station Augusta, Maine 04333-0065

Re: Atkins Residence Sunset Point Road - Yarmouth, Maine

Dear Mr. Mohney:

On behalf of Maria Atkins, we are filing a Shoreland Zoning Permit Application with the Town of Yarmouth to remove the existing residence and rebuild a new home at 109 Sunset Point Road in Yarmouth.

Per the Town Ordinance, we are requesting that your office provide a letter addressing whether the home is considered a historic structure and whether removal of the home would cause any concern for historic sites. We have attached a USGS Location Map showing the site location and pictures of the existing structure.

Respectfully yours,

STONEYBROOK CONSULTANTS, INC.

Willa

Michael F. Gotto mike@stoneybrookllc.com



USGS LOCATION MAP

109 SUNSET POINT ROAD - YARMOUTH OWNER: MARIA ATKINS SCALE: 1" = 2,000' DATE OF GRAPHIC: APRIL 14, 2022 SOURCE: MAINE OFFICE OF GIS ORIGINAL PUBLICATION DATE: 1967





1. Area between Atkins cottage and Jackson cottage looking Southwesterly



2. Driveway Easement Area between Atkins and Sinclair/Turkel looking Northwesterly from Sunset Point Road

SITE PHOTOS





4. Shoreline looking Easterly at the Jackson cottage (left), Atkins cottage (center) and Bicknell cottage (right)

SITE PHOTOS





5. Shoreline looking Easterly at the Sinclair/Turkel home (white), Atkins garage (blue) and Jackson cottage (green trim)



6. Looking Southwesterly along Sunset Point Road at the Bicknell cottage (left) and Atkins cottage (right)

SITE PHOTOS





7. Looking Westerly from Sunset Point Road at the Atkins Cottage (left) and Sinclair/Turkel garage (right)



8. Looking Westerly along the top of slope at the Atkins cottage (Jackson cottage beyond)

SITE PHOTOS



ATKINS RESIDENCE DEVELOPMENT ATKINS YARMOUTH, MAINE

<u>LEGEND</u>

EXISTING

REFER	ΤО	THE
EXIS	STIN	G
CONDITIC	ONS	PLA
FOR AD	DITI	ONAL
INFOR	MAT	ION



FOUNDATION DRAIN
GREEN SPACE
UTILITY PAVEMENT CUTS
STRIPING
SEDIMENTATION BARRIER
EDGE OF EX. PAVEMENT
CURB
SIGN
LAMP OR LIGHT POLE
UTILITY POLE
GUY WIRE
WATER VALVE
FIRE HYDRANT
SEWER MANHOLE
CATCH BASIN
DRAIN MANHOLE
UNDERGROUND ELECTRIC LINE
UNDERGROUND WATER LINE
MINOR CONTOURS (1 FT)
MAJOR CONTOURS (5 FT)
GAS LINE
STORM DRAIN LINE
SEWER LINE
EXISTING/PROPOSED BUILDING
RHEAD ELECTRICAL/TELEPHONE/CABLI
PROPERTY LINE
SETBACKS



----- OHW------

PROPOSED

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UTILITIES

<u>SEWER</u>

SEWER & WASTEWATER POLLUTION CONTROL DEPARTMENT 200 MAIN STREET YARMOUTH, MAINE 04096 CONTACT: CHRIS CLINE (207) 846-2415

WATER

YARMOUTH WATER DISTRICT 181 SLIGO ROAD PO BOX 419 YARMOUTH, MAINE 04096 ERIC GAGNON (207) 846-5821

ELECTRIC

CENTRAL MAINE POWER COMPANY (CMP) 162 CANCO ROAD PORTLAND, MAINE 04103 CONTACT: AUSTIN SANDLER (207) 331-6280

TELEPHONE

CONSOLIDATED COMMUNICATIONS (FORMERLY FAIRPOINT) 45 FOREST AVENUE PORTLAND, MAINE 04101 CONTACT: PAT MORRISON (207) 745–9363

CABLE

SPECTRUM CABLE 444 PERRY ROAD BANGOR, MAINE, 04401 CONTACT: STEVEN HOLMES (207) 404–5529

NATURAL GAS

UNITIL SERVICE CORP 1075 FOREST AVENUE PORTLAND, ME 04103 CONTACT: BRIDGET HARMON (207) 541–2536





PROJECT TEAM

GENERAL CONTRACTOR

TRADEMARK, INC. 380 COTTAGE ROAD SOUTH PORTLAND, ME 04106 (207) 767-3552

CIVIL ENGINEER:

ACORN ENGINEERING, INC. PORTLAND, MAINE CONTACT: WILLIAM SAVAGE, P.E. (207) 775–2655

SURVEYOR

JONES ASSOCIATES, INC. 280 POLAND SPRING ROAD AUBURN, ME 04210 (207) 241-0235

LAND USE CONSULTANT

STONEYBROOK LAND USE, INC. 4846 SUN CITY CENTER BLVD., #300 SUN CITY CENTER, FL 33573 (207) 513–6123

ARCHITECT

RYAN SENATORE ARCHITECTURE 565 CONGRESS STREET PORTLAND, ME 04101 (207) 650-6414

ISSUE RE SUB PB SU	ED FOF	R BY DATE BRJ 3/2/22 BRJ 4/6/22 - 4/6/22
ING NAME: COVER SHEET & LEGEND	CT NAME: ATKINS RESIDENCE	т: 109 SUNSET POINT RD, YARMOUTH, ME 04096
DRAMI	C C C R PROJECTION C C C C C C C C C C C C C C C C C C C	CLIENT CLIENT N ENCINEERING, INC. THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION '2, PORTLAND MAINE 04104 FROM ACORN ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED 207) 775-2655 WITHOUT LABILITY TO ACORN ENGINEERING, INC.
FILE: JN: SCALE: DESIGNE DRAWN CHECKE	TOR TOR TOR TOR TOR TOR TOR TOR TOR TOR	B6_CIVIL 1086 NTS MTA BRJ HS/SJL
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ABBREVIATIONS

PARTIAL LIST OF ABBREVIATIONS AND CONTACT THE ENGINE	THEIR CORRESPONDING MEANING. PLEASE ER FOR ANY CLARIFICATION
APPROX.	APPROXIMATE
ВС	BOTTOM OF CURB
ВМР	BEST MANAGEMENT PRACTICE
BOT.	ВОТТОМ
СВ	CATCH BASIN
CF	CUBIC FOOT
CIP	CAST IN PLACE
CL	CENTERLINE
СМ	CONSTRUCTION MANAGER
СМР	CENTRAL MAINE POWER
CONC.	CONCRETE
СРР	CORRUGATED PLASTIC PIPE
CY	CUBIC YARD
DI	DUCTILE IRON PIPE
DIA.	DIAMETER
DIM.	DIMENSION
EA.	EACH
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQUIV.	EQUIVALENT
FST	ESTIMATE
FY	EXISTING
	FINISH FLOOR FI EVATION
	FFFT
INV.	
MAX.	
MDEP	ENVIRONMENTAL PROTECTION
MDOT	MAINE DEPARTMENT OF
NED.	MECHANICAL, ELECTRICAL, PLUMBING
M.E.F	DESIGNER
MFG.	MANUFACTURED
MH	MANHOLE
MIN.	MINIMUM
0.C.	ON CENTER
OD	OUTSIDE DIAMETER
OHE/T/C	OVERHEAD ELECTRIC/TELEPHONE/CABLE
PC	PRECAST
PF	PROFESSIONAL ENGINEER
PI	PROPERTY LINE
PLS	PROFESSIONAL LAND SURVEYOR
PROP.	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC.	POLYVINYL CHLORIDE
YWD	YARMOUTH WATER DISTRICT
R	RADIUS
RD	ROOF DRAIN
RFT	RETAINING
ROW	RIGHT OF WAY
	SLOPF
2	=
S CD	STORM DRAIN
S SD SDP	STORM DRAIN
S SD SDR	STORM DRAIN STANDARD DIMENSION RATIO
S SD SDR SF	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE
S SD SDR SF SMH	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE
S SD SDR SF SMH SPEC.	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION
S SD SDR SF SMH SPEC. TC	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION TOP OF CURB
S SD SDR SF SMH SPEC. TC TW	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION TOP OF CURB TOP OF WALL
S SD SDR SF SMH SPEC. TC TW TYP.	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION TOP OF CURB TOP OF WALL TYPICAL
S SD SDR SF SMH SPEC. TC TW TYP. UD	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION TOP OF CURB TOP OF WALL TYPICAL UNDERDRAIN
S SD SDR SF SMH SPEC. TC TW TYP. UD UGE	STORM DRAIN STANDARD DIMENSION RATIO SQUARE FEET SEWER MANHOLE SPECIFICATION TOP OF CURB TOP OF WALL TYPICAL UNDERDRAIN UNDERGROUND ELECTRIC

FOR PERMITTING

NOT ISSUED FOR

CONSTRUCTION

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANIES AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION FOR UTILITIES. OTHERWISE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF UNDERGROUND UTILITIES AND LOCATE ANY POTENTIAL CONFLICTS WITH THE APPROVED PLANS PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES SHOWN ON THE PLAN. IF DEEMED NECESSARY BY THE OWNER OR OWNER'S REPRESENTATIVE (IF APPLICABLE), ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- 3. THE CONTRACTOR SHALL PREPARE THEIR OWN MATERIAL SCHEDULE BASED ON THE PLANS AND FIELD VERIFICATION BY THE CONTRACTOR. ALL MATERIAL SCHEDULES SHOWN WITHIN THE PLAN SET ARE FOR GENERAL INFORMATION ONLY.
- 4. ALL CONSTRUCTION METHODS, TESTING AND MATERIALS SHALL CONFORM TO THE MAINE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, THE TOWN OF YARMOUTH AND SERVICING UTILITY REQUIREMENTS, IF ANY. IN CASES WHERE THESE CONFLICT THE MOST STRINGENT SPECIFICATION SHALL APPLY AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE SITE CONTRACTOR SHALL MAINTAIN A SET OF PAPER AND CAD DRAWINGS WHICH SHALL RECORD THE ACTUAL LOCATION, DIMENSIONS, ELEVATIONS, MATERIALS OF THEIR WORK, INDICATING THEREON ALL VARIATIONS FROM THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE COMPLETE SET OF REPRODUCIBLE RECORD DRAWINGS, IN .DWG FORMAT AND PAPER, STAMPED ''AS-BUILT''. IF AUTOCAD CAPABILITY IS NOT AVAILABLE, EXCLUDE FROM BID IN WRITING.
- 6. THE CONTRACTOR WILL REMAIN SOLELY AND COMPLETELY RESPONSIBLE FOR ENFORCEMENT OF AND COMPLIANCE WITH 1) ALL CONTRACT PLANS AND SPECIFICATIONS, 2) APPLICABLE INTERNATIONAL BUILDING CODE REQUIREMENTS, AND 3) ALL SITE WORKING CONDITIONS AND SAFETY REQUIREMENTS, DAY AND NIGHT, FOR BOTH PERSONS AND PROPERTY, IN EACH CASE BOTH BY THE CONTRACTOR AND ITS SUBCONTRACTORS. THESE INCLUDE ALL OSHA, NIOSH, U.S. EPA AND ANY OTHER APPLICABLE GOVERNMENTAL REGULATIONS.
- 7. EXISTING CONDITIONS, BOUNDARY SURVEY, AND TOPOGRAPHY FROM THE PLAN TITLED "PLAN OF LAND OF MARIA ATKINS -SUNSET POINT ROAD - YARMOUTH, MAINE" BY JONES ASSOCIATES, INC., REVISED THROUGH JANUARY 31, 2022.
- 8. SUBSURFACE DATA HAVE BEEN OBTAINED BY MAINE DRILLING AND BLASTING AND SHALL BE INCLUDED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ALSO REVIEW THE REPORT PRIOR TO SUBMITTING A BID.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO THE SITE AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY MARKINGS, SIGNAGE AND INCIDENTALS TO MAINTAIN A SAFE VEHICLE AND PEDESTRIAN ACCESS THOUGH THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE YARMOUTH PUBLIC SAFETY DIVISION ROUTINELY REGARDING TEMPORARY IMPACTS OR CHANGES TO SITE ACCESS CONDITIONS.
- 10. CONTRACTOR TO DETERMINE SOIL CLASSIFICATION INDEPENDENTLY FOR TRENCH, SHORING, AND OTHER SIMILAR CONSTRUCTION MEANS AND METHODS APPLICATIONS.
- 11. NO HOLES, TRENCHES, OR STRUCTURES SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT IN ANY AREA ACCESSIBLE TO THE PUBLIC OR WITHIN THE PUBLIC RIGHT-OF-WAY.
- 12. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION SURVEY OF INTERIOR SUBGRADE AND ABOVE GRADE ACCESSIBLE WALLS, CEILINGS, FLOORS, ROOF AND VISIBLE EXTERIOR AS VIEWED FROM THE GRADE LEVEL. THIS SHALL BE COMPLETED AT A MINIMUM FOR THE PROJECT SITE A COPY OF THE SURVEY SHOULD BE PROVIDED TO THE OWNER. DOCUMENT WITH PICTURES AT A MINIMUM.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL TREES AND SHRUBS ON THE PROJECT WHICH ARE NOT TO BE REMOVED.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY TRENCH PAVEMENT THAT HAS EXPERIENCED EXCESSIVE SETTLEMENT, CRACKING, OR OPENING OF JOINTS. REPAIRS MAY INCLUDE OVERLAY. REMOVAL OF WORK MAY BE NECESSARY AFTER THE FINAL ACCEPTANCE OF WORK OR PRIOR TO THE END OF THE WARRANTY PERIOD. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

CIVIL SITE NOTES:

- 1. THE CONTRACTOR SHALL SUBMIT IN WRITING ANY REQUESTS TO ACORN TO MODIFY THE CONTRACT DOCUMENTS
- 2. ALL SHOP, ERECTION, AND CONSTRUCTION DRAWINGS SHALL BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION FOR ACORN'S REVIEW. ANY UNCHECKED OR NON-STAMPED SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- 3. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING STRUCTURES AND SITE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY ACORN OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- 4. DETAILS SHOWN APPLY TO ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
- 5. ALTHOUGH ALL DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT ALL DETAILS ARE ILLUSTRATED, NOR IS EVERY EXCEPTION CONDITION ADDRESSED WITHIN THE CONTRACT DOCUMENTS.
- 6. ALL PROPRIETARY CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK, INCLUDING DIMENSION AND LAYOUT VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF ANY SUBCONTRACTORS.
- 8. UNLESS OTHERWISE SPECIFICALLY INDICATED. THE DRAWINGS DO NOT DESCRIBE OR DIRECT MEANS OR METHODS OF CONSTRUCTION.
- 9. THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING THE CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION EQUIPMENT.
- 10. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE BRACING IS PROVIDED. PRIOR TO BACKFILLING, CONCRETE SHALL BE CURED PER STRUCTURAL ENGINEER'S SPECIFICATIONS.
- 11. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND OTHER SUPPORTING ELEMENTS ARE IN PLACE, IF APPLICABLE.
- 12. ALL PAVEMENT JOINTS SHALL BE SAWCUT AND APPLIED WITH TACK COAT PRIOR TO PAVING TO PROVIDE A DURABLE AND UNIFORM JOINT.
- 13. ACORN BEARS NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND SITE OBSERVATION VISITS DO NOT IN ANY WAY INCLUDE INSPECTION OF THEM.
- 14. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUBPART P OF 29 CRF PART 1926.650-.652 (CONSTRUCTION STANDARD FOR EXCAVATIONS).
- 15. ALL TRENCH PAVEMENT REPAIR SHALL BE COMPLETED WITH THE USE OF A STREET PAVER WITH A SCREED WIDTH CAPABLE OF SPANNING THE FULL WIDTH OF THE TRENCH UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

SPECIAL INSPECTION NOTES

- 1. ALL SITE SOILS-RELATED WORK AND FOOTING EXCAVATIONS PRIOR TO PLACING FORMS SHALL BE REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER.
- 2. ALL SITE DRAINAGE-RELATED WORK SHALL BE REVIEWED BY ACORN ENGINEERING.
- 3. NORMAL REVIEWS BY LOCAL BUILDING DEPARTMENT. NOTIFY 48 HOURS PRIOR TO REQUIRED REVIEW.
- 4. REQUIRED SPECIAL INSPECTIONS PER I.B.C. SECTION 1705.6 BY AN APPROVED SPECIAL INSPECTOR RETAINED BY OWNER. CONTRACTOR TO COORDINATE SPECIAL INSPECTIONS.
- 5. SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

5.1. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO OBSERVE AND/OR TEST THE WORK ASSIGNED AND OUTLINE ABOVE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, ALL DISCREPANCIES SHALL BE BROUGHT TO THE

2. ALL DIMENSIONS ON THE FOLLOWING SHEETS TAKE PRECEDENT OVER SCALED DIMENSIONS. EACH DRAWING WITH A BAR SCALE MEANS THAT THE DRAWING/DETAIL HAS BEEN SCALED AS ACCURATELY AS POSSIBLE, AND THE BAR SCALE IS FOR GENERAL REFERENCE ONLY. IF NO BAR SCALE IS PRESENT, THEN THERE IS NO SCALE TO THAT DRAWING/DETAIL. AT NO TIME SHOULD DRAWINGS BE SCALED FROM. ANY DISCREPANCIES BETWEEN DRAWINGS, DETAILS, SPECIFICATIONS AND THE FIELD CONDITION SHALL BE IMMEDIATELY REPORTED TO ACORN FOR FURTHER DIRECTIONS BEFORE ANY ADDITIONAL WORK PROCEEDS.

3. SIGNAGE, STRIPING, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

4. ALL TRAFFIC CONTROL SIGNS INDICATED ON THE SITE LAYOUT PLAN ARE TO MEET ALL REQUIREMENTS & CONDITIONS OF THE TOWN OF YARMOUTH, MAINE DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

PERMITTING NOTES

GRADING AND DRAINAGE NOTES:

- LESS.

IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

5.2. THE SPECIAL INSPECTOR SHALL FURNISH REGULAR REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT AND ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. PROGRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISHED WEEKLY. INDIVIDUAL REPORTS OF PERIODIC INSPECTIONS SHALL BE FURNISHED WITHIN ONE WEEK OF INSPECTION DATES. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCIES, AND NET CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS AUTHORIZED BY THE ENGINEER OF RECORD.

5.3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN TEN DAYS OF THE FINAL INSPECTION STATING WHETHER THE WORK REQUIRING A SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE AND BELIEF, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE. WORK NOT IN COMPLIANCE SHALL BE NOTED IN THE REPORT.

5.4. SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER AND COORDINATED BY THE CONTRACTOR.

LAYOUT NOTES:

1. MONUMENTS DELINEATING PROPERTY LINES OR RIGHT OF WAYS SHALL NOT BE DISTURBED DURING CONSTRUCTION OPERATIONS. IN THE CASE A MONUMENT IS DISTURBED, AT THE CONTRACTOR'S EXPENSE, THE MONUMENT SHALL BE RESET TO ITS ORIGINAL LOCATION AND ELEVATION BY A LICENSED PROFESSIONAL LAND SURVEYOR.

5. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED PROFESSIONAL LAND SURVEYOR TO PROVIDE A MINIMUM OF TWO TEMPORARY BENCHMARKS WITHIN THE SITE AND TO LOCATE PROPOSED STRUCTURE CORNERS.

6. CONTRACTOR TO ENSURE THAT ACCESS, INCLUDING BUT NOT LIMITED TO WALKWAYS, DRIVEWAYS, AND MAILBOXES ADJACENT TO THE PROJECT REMAIN FUNCTIONAL AND AVAILABLE FOR USE AT ALL TIMES.

1. THIS PROJECT IS SUBJECT TO THE TERMS AND CONDITIONS OF A SHORELAND ZONING PERMIT FROM THE TOWN OF YARMOUTH AND A NATURAL RESOURCE PROTECTION ACT PERMIT BY RULE FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. 2. THE CONTRACTOR SHALL REVIEW THE ABOVE REFERENCED PERMITS PRIOR TO SUBMITTING A BID FOR THIS PROJECT, AND

INCLUDE COSTS AS NECESSARY TO COMPLY WITH THE CONDITIONS OF THESE PERMITS.

3. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OPENING PERMIT FROM THE TOWN OF YARMOUTH. ADDITIONALLY, COORDINATE WITH THE DEPARTMENT OF PUBLIC WORKS

1. TOPSOIL STRIPPED FROM THE SITE THAT IS SUITABLE FOR REUSE AS LOAM (MEETS THE REQUIREMENTS WITHIN SECTION 615 OF THE MDOT STANDARD SPECIFICATIONS, MOST RECENT VERSION AND IS FREE OF TRACEABLE AMOUNTS OF CONTAMINANTS) SHALL BE STOCKPILED WITHIN THE PROPOSED LIMIT OF WORK AREA. THE CONTRACTOR SHALL NOT ASSUME THAT ANY STRIPPED TOPSOIL WILL BE ACCEPTABLE FOR REUSE WITH THEIR ESTIMATE.

2. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY: NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING. DEWATERING SHALL INCLUDE TREATMENT OF SILT THROUGH THE USE OF A DIRTBAG BY ACF ENVIRONMENTAL OR APPROVED EQUIVALENT. FLOWS FROM DEWATERING ACTIVITIES SHALL NOT BE DISCHARGED INTO SANITARY SEWERS. SEE BORING LOGS FOR ADDITIONAL INFORMATION.

3. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ANY EASEMENT OR TEMPORARY CONSTRUCTION RIGHTS AS NECESSARY BY PRIVATE ADJACENT LAND OWNERS. THE CONTRACTOR SHALL NOT DISTURB ANY SOIL BEYOND THE PROPERTY LINE WITHOUT NOTIFYING AND OBTAINING SUCH EASEMENT OR TEMPORARY CONSTRUCTION RIGHT FROM THE ADJACENT LAND OWNERS. PRIOR TO THE CONTRACTOR PRICING THE WORK, THEY SHALL PROVIDE ACORN WITH PROOF OF SUCH EASEMENT OR TEMPORARY RIGHTS. SHOULD EASEMENTS OR TEMPORARY RIGHTS NOT BE AVAILABLE, THE CONTRACTOR SHALL INCLUDE COST FOR BRACING AND SHORING AS NECESSARY.

4. THE MINIMUM SLOPE SHALL MEET OR EXCEED 0.5% IN ALL CASES WHERE NOT NOTED ON THE GRADING PLAN. SLOPES IDENTIFIED ON THE GRADING PLAN TAKE PRECEDENT. ALL SLOPES SHALL BE AWAY FROM BUILDINGS AND TOP OF PAVEMENT SHALL BE AT OR BELOW EXISTING FINISH FLOOR ELEVATIONS.

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST GEOTECHNICAL REPORT PREPARED BY THE PROJECT GEOTECHNICAL ENGINEER.

6. NO ADDITIONAL PAYMENT WILL BE MADE FOR UNSUITABLE MATERIALS THAT MAY EXIST ON SITE.

7. ALL STORM DRAIN PIPE SHALL BE SMOOTH BORE INTERIOR PROVIDING A MANNINGS ROUGHNESS COEFFICIENT OF N=0.012 OR

8. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.

9. NATIVE SOILS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT THE DISTURBANCE TO SUBGRADE SOILS. SHOULD THE SUBGRADE BECOME YIELDING OR DIFFICULT TO WORK, CONTACT ACORN. THE DISTURBED AREAS SHALL BE EXCAVATED AND BACKFILLED WITH COMPACTED SELECT FILL OR CRUSHED STONE AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. ALL SUBGRADE PREPARATION IS SUBJECT TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER, IF APPLICABLE.

EROSION CONTROL NOTES:

1. DISTURBED AREAS ARE DEFINED AS THOSE SURFACES WHERE EXISTING VEGETATION OR STRUCTURES HAVE BEEN REMOVED, EXPOSING NATIVE SOIL TO THE ELEMENTS.

2. ALL ROUTINE WORK ACTIVITIES SHALL BE CONDUCTED IN SUCH A WAY TO LIMIT THE AMOUNT OF DISTURBED AREA AT ONE TIME TO THE EXTENT PRACTICABLE.

3. PRIOR TO THE START OF ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL APPLICABLE EROSION CONTROL DEVICES SUCH AS PERIMETER SILT FENCE, AND OTHER APPLICABLE MEASURES. IN THE EVENT THE CONTRACTOR IS NOT SURE A EROSION CONTROL MEASURE SHOULD BE IMPLEMENTED. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO CONFIRM IMPLEMENTATION OF ANY EROSION CONTROL DEVICES.

4. ALL GROUND AREAS GRADED FOR CONSTRUCTION SHALL BE GRADED, LOAMED, SEEDED AND MULCH SHALL BE APPLIED AS SOON AS POSSIBLE WITHIN 7 DAYS FOLLOWING THE COMPLETION OF ANY SOIL DISTURBANCE, AND PRIOR TO ANY STORM EVENT.

5. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY. THE CONTRACTOR SHALL REFERENCE THE APPROVED EROSION AND SEDIMENTATION CONTROL REPORT FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL DEVICES IN ADDITION TO THE PLAN SET. THE CONTRACTOR SHALL ALSO REFER TO THE MAINE D.E.P.'S PERMIT CONDITIONS, FINDINGS OF FACT AND ORDER (IF ANY), AND THE CURRENT MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL FOR ADDITIONAL INFORMATION.

6. PRIOR TO PAVING, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM STORM DRAINS, CATCH BASINS, AND APPURTENANCES.

7. REFER TO THE EROSION CONTROL DETAILS & NOTES FOR ADDITIONAL INFORMATION.

- SHOWN WITHIN THE PLAN SET.

- RECENT EDITION.

- NO EXTRA EXPENSE TO THE OWNER.

- THE PIPE INSTALLATION.
- BACKFILL IN PAVED AREAS.
- SUBGRADE DISTURBANCE.

DEMOLITION NOTES:

- ROCK AND CONCRETE FOUNDATIONS
- CONCRETE SLABS - BITUMINOUS ASPHALT PAVEMENT - CONCRETE PADS AND BLOCKS - FENCE POST AND FENCING
- UNDERGROUND UTILITY LINES
- OTHER TRASH & MISCELLANEOUS SOLID WASTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEST PIT TO DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES TO COORDINATE WITH THE PROPOSED CONNECTIONS OR CROSSING. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO ACORN FOR FURTHER DIRECTIONS BEFORE ANY ADDITIONAL WORK PROCEEDS. 2. CONTRACTOR TO BYPASS EXISTING SEWER FLOW CONTROL AT CONNECTION TO EXISTING SYSTEM AT NO ADDITIONAL COST. 3. CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, CONDUCT EXPLORATORY EXCAVATIONS AT LOCATIONS WHERE PROPOSED EXCAVATION WILL INTERSECT WITH EXISTING UTILITIES, PRIOR TO THE ORDERING OF STRUCTURES. 4. ALL NEW SANITARY MANHOLES SHALL BE VACUUM TESTED BEFORE BACKFILLING. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH TECHNICAL REPORT #16 (TR-16): GUIDES FOR THE DESIGN OF WASTEWATER TREATMENT WORKS. PREPARED BY THE NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION. 5. SEWER MANHOLES SHALL BE 4' ID UNLESS OTHERWISE STATED ON THE PLANS. 6. CONTRACTOR TO PROVIDE 5.5' OF COVER FROM TOP OF PIPE TO FINISH GRADE FOR WATER MAINS. 7. THRUST BLOCKS SHALL BE USED FOR THRUST RESTRAIN ON WATER MAINS. DETAIL AND LIMITS FOR THRUST BLOCKS ARE 8. WATER INFRASTRUCTURE SHALL BE APPROVED BY THE YARMOUTH WATER DISTRICT TECHNICAL STANDARDS 9. ALL REQUIRED FITTINGS FOR THE WATER MAIN ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY FITTINGS REQUIRED TO CONSTRUCT THE WATER MAIN IN ACCORDANCE WITH TOWN OF YARMOUTH, STATE OF MAINE, AND AMERICAN WATER WORKS ASSOCIATION STANDARDS AND REGULATIONS. 10. CONTRACTOR SHALL COORDINATE WORK REGARDING ANY WATER MAIN CONNECTION AND WATER MAIN SHUTDOWN WITH THE YARMOUTH WATER DISTRICT AT LEAST SEVEN (7) DAYS PRIOR TO CONSTRUCTION. 11. ALL WATER PIPE INSTALLATION SHALL CONFORM WITH THE YARMOUTH WATER DISTRICT SPECIFICATIONS AND PROCEDURES. MOST 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. 13. SEWER, GAS, TELEPHONE, ELECTRICITY, CABLE, WATER AND ANY OTHER UTILITY CONNECTIONS SHALL BE REVIEWED BY PLUMBING, ELECTRICAL, AND MECHANICAL DESIGNER FOR CONSISTENCY WITH THEIR PLANS PRIOR TO CONSTRUCTION. 14. COORDINATE EXIT POINT FOR SECONDARY UTILITY SERVICES WITH THE ARCHITECT/ELECTRICAL ENGINEER. SECONDARY LINE LOCATIONS NOT PROVIDED BY ACORN WITHIN THE UTILITY PLAN. 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL THE NECESSARY PERMITS FOR THE INSTALLATION OF THE UTILITIES AND STORMDRAINS WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE TOWN IN ACCORDANCE WITH THE TOWN OF YARMOUTH CODE OF ORDINANCES PRIOR TO ANY WORK. 16. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL AT 17. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS OR SAGS IN THE PIPING WILL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED PIPE LINES SHALL BE SUITABLY RESTRAINED WITH THRUST BLOCKS OR RETAINER GLANDS. RETAINER GLANDS ALLOWED FOR DUCTILE IRON PIPE ONLY. PROVIDE ALL BENDS, HORIZONTAL AND VERTICAL, AS REQUIRED TO MEET THE GRADES AND ALIGNMENTS INDICATED ON THE DRAWINGS. 18. ALL WASTEWATER PIPING, EXCLUDING BUILDING DRAINS, AND ALL PRESSURIZED PIPING, TO INCLUDE WATER MAINS, INSTALLED BENEATH STRUCTURES SHALL BE ENCASED IN CONCRETE.

19. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE AS REQUIRED TO ENSURE A COMPLETE AND PROPERLY FUNCTIONING CONNECTION. CONTRACTOR TO VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. ADAPTERS AND FITTINGS ARE INCIDENTAL TO

20. WHENEVER POSSIBLE, WATER LINES SHOULD BE INSTALLED OVER WASTEWATER LINES. A MINIMUM SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED WHERE POSSIBLE WHERE A WATER LINE CROSSES UNDER THE WASTEWATER LINE, A FULL LENGTH OF WASTEWATER PIPE SHALL BE CENTERED ABOVE THE WATER LINE SO THAT BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE,

21. THE CONTRACTOR SHALL BE ANTICIPATE THAT THE NATIVE SILT AND CLAY SOILS WILL NOT BE SUITABLE FOR PIPE TRENCH

22. GROUNDWATER SHALL BE CONTROLLED TO A LEVEL OF AT LEAST ONE FOOT BELOW SUBGRADE OF THE PIPE OR STRUCTURE. THE CONTRACTOR SHALL MAINTAIN THE LOWERED GROUNDWATER LEVEL UNTIL CONSTRUCTION HAS BEEN COMPLETED TO SUCH AN EXTENT THAT THE STRUCTURES OR PIPES WILL NOT BE FLOATED OR OTHERWISE DAMAGED.

23. EXCAVATION TO SUBRADE IN NATIVE SILT AND CLAY SHALL BE COMPLETED WITH A SMOOTH EDGE BUCKET TO MINIMIZE

24. ALL ADJUSTMENTS TO FINISHED GRADE ARE TO BE COMPLETED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONFIRM STRUCTURES THAT REQUIRE ADJUSTMENT WITH THE ENGINEER OR OWNERS REPRESENTATIVE PRIOR TO ADJUSTING FRAMES.

1. THE FOLLOWING ITEMS ARE TYPICAL OF MATERIAL WHICH MAY BE ON SITE:

- ABOVE AND OR BELOW FUEL OIL AND PROPANE GAS TANKS - STORM DRAIN PIPES AND APPURTENANCE STRUCTURES

2. THE CONTRACTOR IS ADVISED TO VISIT THE SITE TO CONFIRM DEMOLITION ITEMS SINCE THE LIST IS NOT INCLUSIVE OF THE SITE CONDITIONS WHICH MAY BE ENCOUNTERED

3. ALL DISPOSAL OF DEMOLITION DEBRIS OR WASTE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS. CONTRACTORS SHALL PROVIDE OWNER WITH APPROPRIATE "BILLS OF LADING" DEMONSTRATING PROPER DISPOSAL OF ALL MATERIALS.



		DATE BRJ 3/2/22 BRJ - 4/6/22
GENERAL NOTES	ATKINS RESIDENCE	ATKINS 109 SUNSET POINT RD, YARMOUTH, ME 04096
FILE:		O ACORN ENGINEERING, INC. THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION O PO BOX 3372, PORTLAND MAINE 04104 FROM ACORN ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND Image: Color of the
JN: SCALE: DESIGNE DRAWN CHECKE	ED BY: BY: D BY: W E OF MA VILLIAM H SAVAGE 11419 4/6/2022 CENSE S/ONALES	



 BOUNDARY AND EXISTING CONDITIONS INFORMATION WERE TAKEN FROM A PLAN ENTITLED "PLAN OF LAND OF MARIA ATKINS – SUNSET POINT ROAD" REVISED THROUGH FEBRUARY 4, 2020, PREPARED BY JONES

2. SITE VISIT AND INTERVIEW OF ABUTTER, MS. JACKSON ON 9/13/2017 CONFIRMED THE EXISTENCE OF GRAVEL ALONG THE NORTHWESTERLY PROPERTY LINE BASED ON VISUAL OBSERVATIONS AND DIGGING SHALLOW TEST PITS THAT INDICATED THE PRESENCE OF COMPACTED GRAVELS THROUGHOUT THIS AREA. THE AREA HAS HISTORICALLY BEEN USED AS A WALKWAY AND STORAGE AREA MEETING THE DEFINITION OF IMPERVIOUS AREA PER MAINE DEP CHP. 500: "IMPERVIOUS AREA' MEANS THE TOTAL AREA OF A PARCEL COVERED WITH A LOW-PERMEABILITY MATERIAL THAT IS HIGHLY RESISTANT TO INFILTRATION BY WATER, SUCH AS ASPHALT, CONCRETE, OR ROOFTOP, AND AREAS SUCH AS GRAVEL ROADS AND UNPAVED PARKING AREAS THAT WILL BE COMPACTED THROUGH DESIGN OR USE TO REDUCE THEIR PERMEABILITY. COMMON IMPERVIOUS AREAS INCLUDE, BUT ARE NOT LIMITED TO, ROOFTOPS, WALKWAYS, PATIOS, DRIVEWAYS, PARKING LOTS OR STORAGE AREAS, CONCRETE OR ASPHALT PAVING, GRAVEL ROADS, PACKED EARTHEN MATERIALS, AND MACADAM OR OTHER SURFACES WHICH SIMILARLY IMPEDE THE NATURAL INFILTRATION OF STORMWATER..."

IMPEDE THE NATURAL INFILTRATION OF STORMWATER..."
3. SURFACE CALCULATIONS ARE BASED ON THE AREA WITHIN THE PROPERTY LINE ONLY.
4. A PORTION OF THE PARCEL IS LOCATED WITHIN A 100-YEAR FLOOD HAZARD AREA AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, PANEL #23055 009B, DATED NOVEMBER 15, 1984.

SURFACE
EXISTING
F
F
F
= 23.36'



ISSUE RE SUB PB SL STAFF (PB CC	ED FOF	BRJ 3/2/22 BRJ 3/16/22 BRJ 4/6/22 BRJ 4/29/22 BRJ 5/13/22 0 0 0 0 0 0 0 0 0 0 0 0 0
EXISTING SURFACES PLAN	ATKINS RESIDENCE	ATKINS 109 SUNSET POINT RD, YARMOUTH, ME 04096
	PROJECT NAME: PROJECT NAME:	ACORN ENGINEERING, INC. THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION PO BOX 3372, PORTLAND MAINE 04104 THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION PO BOX 3372, PORTLAND MAINE 04104 OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND (207) 775-2655 WITHOUT LIABILITY TO ACORN ENGINEERING, INC.
DRAWN CHECKE	108 ED BY: BY: D BY: W TE OF M VILLIAM F SAVAGE 11419 5/13/202 S/ONALE S/ONALE S/ONALE	b_CIVIL 1086 1"=10' MTA BRJ /HS/SJL //HS/SJL

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SCALE: 1" = 10'

FOR PERMITTING

NOT ISSUED FOR

CONSTRUCTION

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GENERAL SITE NOTES:

- 1. ANY EXISTING ASPHALT TO BE REMOVED SHALL BE STRIPPED AND PROPERLY DISPOSED OF OFFSITE. CURB TO BE REMOVED, STOCKPILED AND RESET IN ACCORDANCE WITH DETAIL. BROKEN CURB SHALL BE PROPERLY DISPOSED OF AND
- SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. 2. ALL DISPOSAL OF DEMOLITION DEBRIS OR WASTE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL REGULATIONS. CONTRACTOR SHALL PROVIDE OWNER WITH APPROPRIATE "BILLS OF LANDING" TO DEMONSTRATE PROPER DISPOSAL OF ALL
- MATERIALS. 3. SITE DEMOLITION SHALL NOT OCCUR UNTIL PROPER ABATEMENT PROCEDURES HAVE
- OCCURRED. ABATEMENT, IF NECESSARY, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. CONTRACTOR TO COORDINATE SITE DEMOLITION WITH MARIA ATKINS, PROPERTY OWNER. 5. ANY CONSTRUCTION SIGNAGE USED WILL BE TEMPORARY AND SHALL BE REMOVED AT
- AND STALL DE REMOVED AT PROJECT COMPLETION.
 NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 7. CONTRACTOR TO VERIFY ALL UTILITIES ON PROPERTY AND TO PROTECT ALL UTILITIES
- DURING EXCAVATION FOR PLANTS. 8. CONTRACTOR WILL PROTECT AND PRESERVE EXISTING TREES TO THE MAXIMUM
- EXTENT POSSIBLE UNLESS OTHERWISE NOTED. 9. ALL AREAS ON SITE TO BE LOAMED AND SEEDED UNLESS HATCHED BY BUILDING,
- GRASS PAVER, OR PAVEMENT. 10. REFER TO SHEET C-03 FOR EXISTING IMPERVIOUS SURFACES.

MINIMUM DIMENSIONAL REQUIREMENTS			
ZONE: LOW DENSITY RESIDENTIAL	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT SIZE	2 ACRES	7,247 S.F.	7,247 S.F.
LOT WIDTH	200'	80'	80'
FRONT YARD SETBACK (AVG.)	40'	14'	14.5 '
SIDE YARD SETBACK	20'	8.61'	8.7'
REAR YARD SETBACK	40'	2.38'	8'

REQUIRED SETBA	ACKS
TYPE OF SETBACK	DISTANCE
NATURAL RESOURCE PROTECTION ACT (NRPA) 25'	25'
NRPA 75'	75'
100 YEAR FLOOD	3'

IMPERVIOUS SURFACE TABLE		
SURFACE	EXISTING	PROPOSED
PAVEMENT	332 SF	672 SF
GRAVEL	1,207 SF	682 SF
STRUCTURE	1,603 SF	1,688 SF
TOTAL	3,142 SF	3,042 SF
LOT COVERAGE	43%	42%

* EXISTING BUILDING HEIGHT = 23.36'* PROPOSED BUILDING HEIGHT = 23.36'



FOR PERMITTING NOT ISSUED FOR CONSTRUCTION





GENERAL NOTES:

- REFER TO STRUCTURAL PLANS FOR FOUNDATION REQUIREMENTS. DESIGN OF TEMPORARY SOIL RESTRAINT MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IF NECESSARY FOR CONSTRUCTION.
- 2. CONTRACTOR SHALL ENSURE THAT FOUNDATION DRAINS AND UNDERDRAINS ARE CONSTRUCTED WITH POSITIVE OUTLET TO PROPOSED CONNECTIONS..
- 3. ALL SPOT GRADES ARE PROPOSED UNLESS PRECEDED BY "EX."4. REFER TO FLOWLINES FOR STORMWATER DRAINAGE DIRECTION





ISSUE RE SUB PB SU PB CC	D FOF	BY DATE BRJ 3/2/22 BRJ 4/6/22 BRJ 5/13/22
RAWING NAME: SITE DRAINAGE & EROSION CONTROL PLAN	ROJECT NAME: ATKINS RESIDENCE	LIENT: ATKINS 109 SUNSET POINT RD, YARMOUTH, ME 04096
	0 R N	CI THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM ACORN ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO ACORN ENGINEERING, INC.
FILE:		D D ACORN ENGINEERING, INC. ACORN ENGINEERING, INC. ACORN ENGINEERING, 1NC. ACORN ENGINEERING, 1NC. ACORN ENGINEERING, 1NC. ACORN ENGINEERING, 1NC.
JN: SCALE: DESIGNE	ED BY:	1086 1"=10' MTA
DRAWN CHECKE	BY: D BY: W	BRJ /HS/SJL
	WILLIAM F SAVAGE 11419 5/13/2023 CENSE SIONALE	
	wing	[×] 20



- SEDIMENTS ONTO PUBLIC RIGHT-OF-WAY 7. THE PAD SHOULD BE INSPECTED WEEKLY, AND BORE AND AFTER EACH STORM. THE PAD MAY HAVE TO BE REPLACED IF THE VOIDS BECOME FILLED WITH SEDIMENT. STREET SWEEPING MAY
- 5. THE WHEELS OF CONSTRUCTION EQUIPMENT MAY BE WASHED PRIOR TO EXITING THE SITE. WASHING SHOULD BE PERFORMED IN AN AREA THAT DRAINS TO A SEDIMENT TRAP OR BASIN 6. CONSTRUCTION ENTRANCE SHALL BE GRADED IN A MANNER THAT PREVENTS TRACKING OF
- OFF SITE. IN SITUATIONS WHERE THIS IS NOT POSSIBLE, ANY STORMWATER CONVEYED OFFSITE SHALL BE TREATED OR RETAINED IN A MANNER APPROVED BY ENGINEER.
- 3. BERMS MAY BE NECESSARY TO DIVERT WATER AROUND ANY EXPOSED SOIL, AND RUNOFF SHOULD BE DIRECTED TO A SEDIMENT TRAP. 4. CONSTRUCTION ENTRANCE SHALL BE GRADED TO NOT ALLOW ANY STORMWATER TO BE CONVEYED
- 2. STONE SHALL BE $2^{*}-3^{*}$ COARSE AGGREGATE
- NOTES: 1. CONTRACTOR SHALL ADD STONE TO ENTRANCE AS MUD/SILT MATERIAL ACCUMULATES









← 6X6 W4XW4 WWF

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4,000 PSI 28-DAY _COMPRESSIVE STRENGTH PORTLAND CEMENT CONCRETE 6%

±1% AIR ENTRAINED.

BASE MDOT 703.06



- SURFACE COURSE MDOT 403.09 GRADE C (12.5MM) BINDER COURSE MDOT 403.09 GRADE B (19MM) AGGREGATE BASE GRAVEL MDOT 703.06

TYPE B OR A AGGREGATE SUBBASE GRAVEL MDOT 703.06 TYPE D

<u>NOTE:</u> COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557

THICKNESS OF LAYERS

	STANDARD	LAYERS
1-1/2" SU		SURFACE COURSE MDOT 403.09 GRADE C (12.5mm)
2" 3"		BINDER COURSE MDOT 403.09 GRADE B (19mm)
		AGGREGATE BASE GRAVEL MDOT 703.06 TYPE B OR A
	15"	AGGREGATE SUBBASE GRAVEL MDOT 703.06 TYPE D

LOCAL BITUMINOUS PAVEMENT PROFILE NOT TO SCALE

MANUFACTURERS PRODUCT SHEET AND NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE PAVER PROFILE PRIOR TO CONSTRUCTION.

> ADJACENT TO FIXED STRUCTURES

DRY SAND-CEMENT MIX (6:1) FOR BASE ----BITUMINOUS PAVEMENT, MDOT 403.09 GRADING -----"B", IF REQUIRED BY CONTRACTOR FOR PHASING AND/OR CONSTRUCTABILITY

	GRADATIO	N REQUIREMENTS FOR		
SIEVE	SIZE	NATURAL SAND PERCENT PASSING		
NO. 4 (4.75mm)		100		
NO. 8 (2.36mm)		95-100		
NO. 16 (1.18mm)		70-100		
NO. 30 (0.60mm)		40-75		
NO. 50 (0.30mm)		10-30		
NO. 100 (0.15mm)		2–15		
NO. 200 (0.075)		0-1		

POLYMERIC JOINT SAND, TECHNISEAL HP NEXT GEL, GATOR XP POLYMERIC SAND BOND OR UNICARE HP POLYMERIC MAX SAND, SWEPT BETWEEN PAVERS LOADING. PAVER PRODUCT PER LANDSCAPE ARCHITECT. CONTRACTOR TO OBTAIN

FOR PERMITTING NOT ISSUED FOR CONSTRUCTION

PAVER PROFILE NOT TO SCALE

STANDARDS IN ADDITION TO MDOT STANDARDS.

	THICKNESS OF LAYERS				
STANDARD	LAYERS				
3.15"	CONCRETE PAVER (DEPTH TBD BASED UPON MANUFACTURER)				
1"	DRY SAND-CEMENT MIX (6:1)				
2"	BITUMINOUS MDOT 403.09 GRADING "B"				
3"	AGGREGATE BASE GRAVEL MDOT 703.06 TYPE B				
12"	AGGREGATE SUBBASE GRAVEL MDOT 703.06 TYPE D				

1. COMPACT AGGREGATES TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE

COMPRESSION OF 550 PSI AFTER DRYING FOR 7 DAYS UNDER

CONTROLLED CONDITIONS (73 DEGREE F AT 50% HUMIDITY)

2. SURFACE AND AGGREGATE MATERIALS SHALL MEET THE CITY OF PORTLAND 3. JOINT SAND COMPRESSION STRENGTH: PROVEN RESISTANCE TO JOINT SAND MANUFACTURED SAND PERCENT PASSING

100

95-100

70-100

40-75

20-40

10-25

0-10

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	 INSTALL GRANITE OR CONCRETE HAUNCH EDGE RESTRAINT WHERE PAVERS ABUT LOAM OR PAVE BUILD-UP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENGINEER APPROVE EDGE RESTRAINT PRIOR TO CONTRACT PURCHASING MATERIALS.
	- LOAM
	- AGGREGATE BASE GRAVEL MDOT 703.06 TYPE B
	- AGGREGATE SUBBASE GRAVEL MDOT 703.06 TYPE D
	- SUBGRADE
NOTES:	

WITH ASTM D-1557

MANUFACTURER'S RECOMMENDATIONS. ENGINEER TO APPROVE EDGE RESTRAINT PRIOR TO CONTRACTOR PURCHASING MATERIALS. LOAM ----- AGGREGATE BASE GRAVEL MDOT 703.06 TYPE B ------ AGGREGATE SUBBASE GRAVEL MDOT

RESTRAINT WHERE PAVERS ABUT LOAM OR PAVEMENT









BACKFLOW VALVE ASSEMBLY (NO REINFORCEMENT)

NOT TO SCALE



1.0 EROSION CONTROL MEASURES AND SITE STABILIZATION AS PART OF THE SITE DEVELOPMENT, THE FOLLOWING TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IMPLEMENTED. DEVICES SHALL BE INSTALLED AS DESCRIBED IN THIS REPORT OR WITHIN THE PLAN SET. SEE THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES FOR FURTHER REFERENCE. 1.1 TEMPORARY EROSION CONTROL MEASURES THE FOLLOWING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE PLANNED FOR THE PROJECT'S CONSTRUCTION PERIOD: 1.1.1 CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL ACCESS POINTS TO THE PROJECT SITE WHERE THERE ARE DISTURBED AREAS. THE FOLLOWING SPECIFICATIONS SHALL BE FOLLOWED AT A MINIMUM: • STONE SIZE SHALL BE 2-3 INCHES, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. • THE THICKNESS OF THE ENTRANCE STONE LAYER SHALL BE NO LESS THAN 6 INCHES. • THE ENTRANCE SHALL NOT BE LESS THAN 20 FEET WIDE, HOWEVER NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS. THE LENGTH SHALL NOT BE LESS THAN 50 FEET IN LENGTH. • GEOTEXTILE FABRIC (WOVEN OR NON-WOVEN) SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA. • THE ENTRANCE/EXIT SHALL BE MAINTAINED TO THE EXTENT THAT IT WILL PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC ROAD WAYS. 1.1.2 SILTATION FENCE OR EROSION CONTROL BERM SHALL BE INSTALLED DOWN GRADIENT OF ANY DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL PERMANENT STABILIZATION IS ACHIEVED. THE SILT FENCE OR EROSION CONTROL BERM SHALL BE INSTALLED PER THE DETAILS PROVIDED IN THE PLAN SET AND INSPECTED BEFORE AND IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIRS SHALL BE MADE IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE FENCE LINE OR BERM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE OR BERM, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM. 1.1.3 HAY MULCH INCLUDING HYDRO SEEDING IS INTENDED TO PROVIDE COVER FOR DENUDED OR SEEDED AREAS UNTIL REVEGETATION IS ESTABLISHED. MULCH PLACED BETWEEN APRIL 15TH AND NOVEMBER 1ST ON SLOPES OF LESS THAN 15 PERCENT SHALL BE COVERED BY FABRIC NETTING AND ANCHORED WITH STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MULCH PLACED BETWEEN NOVEMBER 1ST AND APRIL 15TH ON SLOPES EQUAL TO OR STEEPER THAN 8 PERCENT AND EQUAL TO OR FLATTER THAN 2:1 SHALL USE MATS OR FABRIC NETTING AND ANCHORED WITH STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION 1.1.4 AT ANY TIME OF THE YEAR, ALL SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH DOUBLE NET EROSION CONTROL BLANKET BIONET SC150BN BY NORTH AMERICAN GREEN OR APPROVED EQUAL, OR EROSION CONTROL MIX SLOPE PROTECTION AS DETAILED WITHIN THE PLANS. SUNSET POINT ROAD SHALL BE SWEPT TO CONTROL MUD AND DUST FROM THE CONSTRUCTION SITE AS NECESSARY. ADD ADDITIONAL STONE TO THE STABILIZED CONSTRUCTION ENTRANCE TO MINIMIZE THE TRACKING OF MATERIAL OFF THE SITE AND ONTO THE SURROUNDING ROADWAYS. DURING DEMOLITION, CLEARING AND GRUBBING OPERATIONS, STONE CHECK DAMS SHALL BE INSTALLED AT ANY AREAS OF CONCENTRATED FLOW. THE MAXIMUM HEIGHT OF THE CHECK DAM SHALL BE 6 INCHES BELOW THE OUTER EDGES OF THE DAM. THE CONTRACTOR SHALL MULCH THE SIDE SLOPES AND INSTALL STONE CHECK DAMS FOR ALL NEWLY EXCAVATED DITCH LINES WITHIN 24 HOURS OF THEIR CREATION. SILT FENCE STAKE SPACING SHALL NOT EXCEED 6 FEET UNLESS THE FENCE IS SUPPORTED WITH 14 GAUGE WIRE IN WHICH CASE THE MAXIMUM SPACING SHALL NOT EXCEED 10 FEET. THE SILT FENCE SHALL BE "TOED" INTO THE GROUND. STORMDRAIN INLET PROTECTION SHALL BE PROVIDED TO STORMDRAINS THROUGH THE USE OF ANY OF THE FOLLOWING: HAY BALE DROP INLET STRUCTURES, SILT FENCE DROP INLET SEDIMENT FILTER, GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER, OR CURB INLET SEDIMENT FILTER. BARRIERS SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT AND REPAIRED AS NECESSARY. SEDIMENTS SHALL BE REMOVED WHEN ACCUMULATION HAS REACHED ½ THE DESIGN HEIGHT. 1.1.9 DUST CONTROL SHALL BE ACCOMPLISHED BY THE USE OF ANY OF THE FOLLOWING: WATER, CALCIUM CHLORIDE, STONE, OR AN APPROVED MDEP PRODUCT. DUST CONTROL SHALL BE APPLIED AS NEEDED TO ACCOMPLISH DUST CONTROL. 1.1.10 TEMPORARY LOAM, SEED, AND MULCHING SHALL BE USED IN AREAS WHERE NO OTHER EROSION CONTROL MEASURE IS USED. APPLICATION RATES FOR SEEDING ARE PROVIDED AT THE END OF THIS REPORT. 1.1.11 STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF FORMATION UNLESS A SCHEDULED RAIN EVENT OCCURS PRIOR TO THE 7 DAY WINDOW, IN WHICH CASE THE STOCKPILE SHALL BE STABILIZED PRIOR TO THE RAIN EVENT. METHODS OF STABILIZATION SHALL BE MULCH, EROSION CONTROL MIX, OR EROSION CONTROL BLANKETS/MATS. SILT FENCE OR A WOOD WASTE COMPOST FILTER BERM SHALL BE PLACED DOWNHILL OF ANY SOIL STOCKPILE LOCATION. 1.1.12 FOR DISTURBANCE BETWEEN NOVEMBER 1 AND APRIL 15, PLEASE REFER TO WINTER STABILIZATION PLAN IN THIS REPORT AND THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL FOR FURTHER INFORMATION. 1.1.13 IT IS OF THE UTMOST IMPORTANCE THAT STORMWATER RUNOFF AND POTENTIAL SEDIMENT FROM THE CONSTRUCTION SITE BE DIVERTED AROUND THE PROPOSED UNDERDRAINS UNTIL THE TRENCH IS BACKFILLED. 1.2 PERMANENT EROSION CONTROL MEASURES THE FOLLOWING PERMANENT EROSION CONTROL MEASURES ARE INTENDED FOR POST DISTURBANCE AREAS OF THE PROJECT. 1.2.1 ALL DISTURBED AREAS DURING CONSTRUCTION, NOT SUBJECT TO OTHER PROPOSED CONDITIONS, SHALL RECEIVE A MINIMUM 4" OF LOAM AND SHALL BE LIMED, AND MULCHED. EROSION CONTROL BLANKETS OR MATS SHALL BE PLACED OVER THE MULCH IN AREAS NOTED IN PARAGRAPH 4.2 OF THIS REPORT. ALL STORMWATER DEVICES SHALL BE INSTALLED AND TRIBUTARY AREAS STABILIZED PRIOR RECEIVING STORMWATER. 1.2.3 REFER TO THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL FOR ADDITIONAL INFORMATION. 2.0 EROSION AND SEDIMENTATION CONTROL PLAN 2.1 THE EROSION AND SEDIMENTATION CONTROL PLAN IS INCLUDED WITHIN THE PLAN SET. 3.0 DETAILS AND SPECIFICATIONS 3.1 EROSION CONTROL DETAILS AND SPECIFICATIONS ARE INCLUDED IN THE PLAN SET. 4.0 STABILIZATION PLAN FOR WINTER CONSTRUCTION WINTER CONSTRUCTION CONSISTS OF EARTHWORK DISTURBANCE BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15. IF A CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 15, THEN THE SITE SHALL BE PROTECTED WITH OVER-WINTER STABILIZATION. ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP, OR GRAVEL BASE ON A ROAD SHALL BE CONSIDERED OPEN. THE CONTRACTOR SHALL LIMIT THE WORK AREA TO AREAS THAT WORK WILL OCCUR IN DURING THE SUBSEQUENT 15 DAYS AND SO THAT IT CAN BE MULCHED ONE DAY PRIOR TO A SNOW EVENT. THE CONTRACTOR SHALL STABILIZE WORK AREAS PRIOR TO OPENING ADDITIONAL WORK AREAS TO MINIMIZE AREAS WITHOUT EROSION CONTROL MEASURES. THE FOLLOWING MEASURES SHALL BE IMPLEMENTED DURING WINTER CONSTRUCTION PERIODS: 4.1 <u>SEDIMENT BARRIERS</u> DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES. 4.2 <u>MULCHING</u> ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1,000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS./1,000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW SHALL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA SHALL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED OR ADEQUATELY ANCHORED SO THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER MULCH NETTING, TRACKING OR WOOD CELLULOSE FIBER. THE COVER WILL BE CONSIDERED SUFFICIENT WHEN THE GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. AFTER NOVEMBER 1ST, MULCHING AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORKDAY. 4.3 SOIL STOCKPILING STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A FOUR-INCH LAYER OF EROSION CONTROL MIX. THIS SHALL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. 4.4 <u>SEEDING</u> BETWEEN THE DATES OF OCTOBER 15TH AND APRIL 1ST, LOAM OR SEED SHALL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS 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 1ST AND IF THE EXPOSED AREA HAS NOT BEEN LOAMED, FINAL GRADING WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY BE PLACED PRIOR TO THE PLACEMENT OF MULCH OR EROSION CONTROL BLANKETS. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4" OF LOAM AND SEED AT AN APPLICATION RATE OF 5 LBS/1,000 S.F. ALL AREAS SEEDED DURING THE WINTER SHALL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS INSUFFICIENTLY VEGETATED (LESS THAN 75% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING. 4.5 OVER WINTER STABILIZATION OF DISTURBED SOILS BY SEPTEMBER 15TH, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% SHALL BE SEEDED AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN ONE OF THE FOLLOWING ACTIONS SHALL BE TAKEN TO STABILIZE THE SOIL FOR LATE FALL AND WINTER: • <u>STABILIZE THE SOIL WITH TEMPORARY VEGETATION</u> - BY OCTOBER 1ST, SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3LBS PER 1,000 S.F., LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 LBS PER 1,000 S.F., AND ANCHOR THE MULCH WITH PLASTIC NETTING. MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1ST, THEN MULCH THE AREA FOR OVER-WINTER PROTECTION.

- <u>STABILIZE THE SOIL WITH SOD</u> STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
- <u>STABILIZE THE SOIL WITH MULCH</u> BY NOVEMBER 15TH, MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 LBS PER 1,000 S.F. ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. IMMEDIATELY AFTER APPLYING THE MULCH, ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

4.6 <u>OVER WINTER STABILIZATION OF DISTURBED SLOPES</u>

- ALL STONE-COVERED SLOPES SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH. ALL SLOPES TO BE VEGETATED SHALL BE SEEDED AND MULCHED BY SEPTEMBER 1ST. A SLOPE IS CONSIDERED A GRADE GREATER THAN 15%. IF A SLOPE TO BE VEGETATED IS NOT STABILIZED BY SEPTEMBER 1ST, THEN ONE OF THE FOLLOWING ACTION SHALL BE TAKEN TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER:
 - <u>STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS</u> BY OCTOBER 1ST THE DISTURBED SLOPE SHALL BE SEEDED WITH WINTER RYE AT A SEEDING RATE OF 3 LBS PER 1,000 S.F. 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 1ST, THEN THE CONTRACTOR SHALL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MATS OR ANCHORED MULCH OVER THE SLOPE WITH A LAYER OF EROSION CONTROL MIX OR WITH STONE RIPRAP.
 - <u>STABILIZE THE SOIL WITH SOD</u> THE DISTURBED SLOPE SHALL BE STABILIZED WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR SHALL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 3H:1V OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
 - GRADE GREATER THAN 3H:1V OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
 <u>STABILIZE THE SOIL WITH EROSION CONTROL MIX</u> EROSION CONTROL MIX SHALL BE PROPERLY INSTALLED BY NOVEMBER 15TH. THE CONTRACTOR SHALL NOT USE EROSION CONTROL MIX TO STABILIZE SLOPES HAVING GRADES GREATER THAN 2H:1V OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
- <u>STABILIZE THE SOIL WITH STONE RIPRAP</u> PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15TH. A REGISTERED PROFESSIONAL ENGINEER SHALL BE HIRED TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

5.0 INSPECTION AND MAINTENANCE

A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT PERIODIC VISUAL INSPECTIONS OF INSTALLED EROSION CONTROL MEASURES. THE FREQUENCY OF INSPECTION SHALL OCCUR AT LEAST ONCE EVERY TWO WEEKS, AS WELL AS AFTER A "STORM EVENT". A "STORM EVENT" SHALL CONSIST 0.5 INCHES OF RAIN WITHIN A 24 HOUR PERIOD. THE FOLLOWING EROSION AND SEDIMENT CONTROL – BEST MANAGEMENT PRACTICES (BMP'S) SHALL INSPECTED IN THE MANNER AS DESCRIBED.

5.1 SEDIMENT BARRIERS

HAY BALE BARRIERS, SILT FENCES AND FILTER BERMS SHALL BE INSPECTED AND REPAIRED FOR THE FOLLOWING IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. FILTER BERMS SHOULD BE RESHAPED AS NEEDED. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

5.2 <u>STABILIZED STONE CONSTRUCTION ENTRANCES</u>

THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL AND REDISTRIBUTED ON SITE IN A STABLE MANNER. THE ENTRANCE SHOULD THEN BE RECONSTRUCTED. THE CONTRACTOR SHALL SWEEP OR WASH PAVEMENT AT EXITS, WHICH HAVE EXPERIENCED MUD-TRACKING ON TO THE PAVEMENT OR TRAVELED WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

5.3 <u>MULCHED AREAS</u>

ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED. NETS MUST BE INSPECTED AFTER RAIN EVENTS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, RE-INSTALL THE NETS AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE. REPAIR AS NEEDED.

5.4 <u>DUST CONTROL</u>

WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

5.5 STORMWATER APPURTENANCES

ALL UNDERDRAINS, STORM DRAINS, AND CATCH BASINS NEED TO BE OPERATING EFFECTIVELY AND FREE OF DEBRIS.

5.6 EROSION AND SEDIMENTATION CONTROL INSPECTIONS:

ACORN ENGINEERING HAS PERSONNEL QUALIFIED TO CONDUCT EROSION AND SEDIMENTATION CONTROL INSPECTIONS. FOR FURTHER INFORMATION CONTACT:

CONTACT: WILL SAVAGE, PE

TELEPHONE: (207) 775–2655

QUALIFICATIONS:

- > MAINE PROFESSIONAL ENGINEERING LICENSE #11419
- > MAINE DEP CERTIFIED IN MAINTENANCE & INSPECTION OF STORMWATER BMP'S CERT #14 > CERTIFIED EROSION, SEDIMENT AND STORM WATER INSPECTOR (CESSWI) CERT #0293
- > CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) CERT. #4620

THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLYING WITH THE EROSION AND SEDIMENTATION REPORT/PLAN, INCLUDING CONTROL OF FUGITIVE DUST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONETARY PENALTIES RESULTING FROM FAILURE TO COMPLY WITH THESE STANDARDS.

6.0 IMPLEMENTATION SCHEDULE

THE FOLLOWING IMPLEMENTATION SEQUENCE IS INTENDED TO MAXIMIZE THE EFFECTIVENESS OF THE ABOVE DESCRIBED EROSION CONTROL MEASURES. CONTRACTORS SHOULD AVOID OVEREXPOSING DISTURBED AREAS AND LIMIT THE AMOUNT OF STABILIZATION AREA.

1. INSTALL A STABILIZED CONSTRUCTION ENTRANCE IN ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL ENTER AND EXIT THE SITE. 2. INSTALL PERIMETER SILT FENCE OR EROSION CONTROL BERM.

- 3. INSTALL ALL OTHER EROSION CONTROL DEVICES AS NECESSARY THROUGHOUT THE REMAINDER OF THIS SCHEDULE. 4. COMMENCE INSTALLATION OF DRAINAGE INFRASTRUCTURE.
- 5. PRIORITIZE THE DOWNHILL SIDE TO CONTAIN RUNOFF WITHIN THE SITE WHILE PROVIDING AN ENGINEERED OUTLET WITH SILTATION BARRIER TO THE MUNICIPAL STORMWATER SYSTEM WITHIN SUNSET POINT ROAD.
 6. COMMENCE EARTHWORK OPERATIONS, WALL AND FOUNDATION INSTALLATION.
- 7. COMMENCE INSTALLATION OF UTILITIES. 8. CONTINUE EARTHWORK AND GRADING TO SUBGRADE AS NECESSARY FOR CONSTRUCTION.
- 9. COMPLETE INSTALLATION OF DRAINAGE INFRASTRUCTURE, AS WELL AS OTHER UTILITY WORK.
- 10. COMPLETE REMAINING EARTHWORK OPERATIONS. 11. INSTALL SUB-BASE AND BASE GRAVELS IN PAVED AREAS.
- 12. INSTALL PAVING, CURBING AND BRICKWORK. 13. LOAM. LIME, FERTILIZE, SEED AND MULCH DISTURBED AREAS AND COMPLETE ALL LANDSCAPING.
- 14. ONCE THE SITE IS STABILIZED, 90% CATCH OF GRASS HAS BEEN OBTAINED, OR MULCHING OF LANDSCAPE AREAS IS COMPLETE REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
 15. TOUCH UP AREAS WITHOUT A VIGOROUS CATCH OF GRASS WITH LOAM AND SEED.
- 16. COMPLETE SITE SIGNAGE AND STRIPING. 17. EXECUTE PROPER MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.

THE ABOVE IMPLEMENTATION SEQUENCE SHOULD BE GENERALLY FOLLOWED BY THE SITE CONTRACTOR. HOWEVER, THE CONTRACTOR MAY CONSTRUCT SEVERAL ITEMS SIMULTANEOUSLY. THE CONTRACTOR SHALL SUBMIT TO THE OWNER A SCHEDULE OF THE COMPLETION OF THE WORK. IF THE CONTRACTOR IS TO COMMENCE THE CONSTRUCTION OF MORE THAN ONE ITEM ABOVE, THEY SHALL LIMIT THE AMOUNT OF EXPOSED AREAS TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDERTAKEN DURING THE FOLLOWING 30 DAYS.

THE CONTRACTOR SHALL RE-VEGETATE DISTURBED AREAS AS RAPIDLY AS POSSIBLE. ALL AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING OR BEFORE A STORM EVENT. THE CONTRACTOR SHALL INCORPORATE PLANNED INLETS AND DRAINAGE SYSTEMS AS EARLY AS POSSIBLE INTO THE CONSTRUCTION PHASE.

7.0 SEEDING PLAN

7.1 SITE PREPARATION

THE SEEDED AREAS SHALL BE FEASIBLY GRADED OUT TO PROVIDE THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IF NECESSARY, THE SITE MAY REQUIRE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL REPORT. 7.2 SEEDBED PREPARATION

FERTILIZER SHALL BE APPLIED TO THE SITE AT A RATE OF 13.8 POUNDS PER 1,000 SQUARE FEET. THE COMPOSITION OF THE FERTILIZER SHALL BE 10-10-10 (N-P205-K20) OR EQUIVALENT.

LIMESTONE SHALL BE APPLIED TO THE SITE AT A RATE OF 138 POUNDS PER 1,000 SQUARE FEET.

7.3 SEEDING

THE COMPOSITION AND AMOUNT OF TEMPORARY SEED APPLIED TO A SITE SHALL BE DETERMINED BY THE FOLLOWING TABLE:

TEMPORARY SEED APPLICATION RATES		PERMANENT SEED	APPLICATION RATES	
SEED	LBS / ACRE	RECOMMENDED SEEDING DATES	SEED	LBS / ACRE
WINTER RYE	2.57	8/15 TO 10/1	KENTUCKY BLUEGRASS	20.00
OATS	1.84	4/1 TO 7/1 8/15 TO 9/15	CREEPING RED FESCUE	20.00
ANNUAL RYGRASS	0.92	4/1 TO 7/1	PERENNIAL RYEGRASS	4.80
SUDANGRASS	0.92	5/15 TO 8/15	TOTAL	44.8 LBS/ACRE
PERENNIAL	0.92	8/15 TO 9/15		
TOTAL	7.17 LBS/ACRE			

7.4 MULCHING

MULCH SHALL BE HARDWOOD AND APPLIED AT A RATE OF 70 LBS – 90 LBS PER 1,000 SQUARE FEET. THE MULCH SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. THE SEEDED AREA SHALL BE MULCHED IMMEDIATELY AFTER SEED IS APPLIED. MULCHING DURING THE WINTER SEASON SHALL BE DOUBLE THE NORMAL AMOUNT. REFER TO DETAIL FOR MORE INFORMATION.

8.0 <u>CONCLUSION</u>

THE ABOVE EROSION CONTROL NARRATIVE IS INTENDED TO MINIMIZE THE DEVELOPMENT IMPACT BY IMPLEMENTING TEMPORARY AND PERMANENT EROSION CONTROL MEASURES. THE CONTRACTOR SHALL ALSO REFER TO THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL FOR ADDITIONAL INFORMATION.



 THE EROSION CONTROL MIX SHALL CONFORM TO THE FOLLOWING STANDARDS AND IN ACCORDANCE WITH THE MAINE DOT CHAPTER 700, SECTION 717.04(D):

1.1. pH BETWEEN 5.0 - 8.01.2. PARTICLE SIZE (BY WEIGHT):

1.2.1. 100% PASSING A 150 MM (6 IN) SCREEN 1.2.2. 75 TO 85% PASSING A 19 MM (0.75 IN) SCREEN

1.3. SOLUBLE SALTS CONTENT < 4.0 MMHOS/CM 1.4. ORGANIC MATTER 20 TO 100% , DRY WEIGHT BASIS

2. THE BERM SHOULD BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR, WHEN NECESSARY THE BERM MAY BE PLACED PERPENDICULAR TO THE SLOPE ALONG THE PROPERTY LINE TO CONTAIN THE SEDIMENT PROVIDED A BERM IS LOCATED AT THE BASE OF THE SLOPE.

3. THE BERM MAY BE USED IN LIEU OF SILTATION FENCE, AT THE TOE OF SHALLOW SLOPES, ON FROZEN GROUND, LEDGE OUT CROPS, VERY ROOTED FORESTED AREA OR AT THE EDGE OF GRAVEL PARKING AREAS.

4. BERMS SHALL REMAIN IN PLACE UNTIL UPSTREAM AREA IS STABILIZED OR 90% CATCH OF VEGETATION IS ATTAINED. BERMS SHALL BE REMOVED OFFSITE OR BY SPREADING SUCH THAT NATIVE EARTH CAN BE SEEN BELOW.



NOT ISSUED FOR

CONSTRUCTION

