#### CONSTRUCTION NOTES:

- I. ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL LAWS.
- . CONTRACTOR SHALL CONTACT DIG SAFE, AND COORDINATE WITH THE TOWN, UTILITY COMPANIES, AND EMERGENCY SERVICES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED UTILITIES DURING CONSTRUCTION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING APPROPRIATE OSHA MANDATED PERSONAL PROTECTION STANDARDS RELATED TO THIS PROCESS.
- 4. ALL DISTURBED SLOPES BETWEEN 3:1 AND 2:1 SHALL BE STABILIZED WITH AMERICAN EXCELSIOR CURLEX I EROSION CONTROL BLANKET OR EQUAL. SLOPES GREATER THAN 2:1 SHALL BE STABILIZED WITH AMERICAN EXCELSIOR CURLEX II OR EQUAL. SLOPES GREATER THAN 1:5:1 SHALL BE STABILIZED WITH RIPRAP PER ENGINEER ..
- 5. ALL DISTURBED SOILS SHALL BE LOAMED (4" MIN.), SEEDED AND MULCHED.
- 6. ALL DISTURBED GRAVEL AND PAVEMENT SHALL BE RESTORED TO ORIGINAL CONDITIONS.

SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

OF THE PROJECT. THERE IS NO ADDITION COST FOR BRACING OF UTILITY POLES.

- . EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES".
- 8. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ARE NOT EXACT, NOR CAN IT BE ASSUMED THAT ALL EXISTING UTILITIES ARE
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE TRAFFIC FLOW THROUGH THE CONSTRUCTION AREA AT ALL TIMES.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS TO CLEAN INADVERTENT EQUIPMENT FLUID
- 1. ALL EXISTING FEATURES (TREES, SIGNS, ETC.) SHALL BE PROTECTED DURING CONSTRUCTION, OR RESTORED PRIOR TO COMPLETION
- 12. ALL EXISTING PLANTINGS SHALL BE PROTECTED OR PRESERVED (TRANSPLANT AND/OR RELOCATED) TO THE GREATEST EXTENT
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR WORK SITE SAFETY DURING WORKING AND NON-WORKING HOURS. APPROPRIATE SIGNAGE AND BARRIERS SHALL BE USED DURING THE DURATION OF CONSTRUCTION.
- 14. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A WATER MANAGEMENT PLAN, IN ACCORDANCE WITH ALL LOCAL, STATE, AND
- 15. ALL COSTS FOR DE-WATERING MEASURES, INCLUDING BUT NOT LIMITED TO, PUMPING, MAINTENANCE, RELATED TEMPORARY SOILS EROSION AND WATER POLLUTION CONTROLS AND REMOVAL, WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACTED ITEMS INCLUDED IN BASE BID.
- 16. NO WORK SHALL OCCUR IN STREAM OTHER THAN TEMPORARY COFFER DAM JUST PRIOR TO THE REMOVAL OF THE CULVERTS. EXISTING CULVERT SHALL BE USED FOR DIVERTING WATER DURING EXCAVATION, TO THE GREATEST EXTENT POSSIBLE.
- 17. CONTRACTOR RESPONSIBLE FOR INSTALLING TOWN OWNED TURBIDITY CURTAIN DOWN STREAM OF PROJECT PRIOR TO THE START OF
- CONSTRUCTION. 18. CONTRACTOR SHALL BE CERTIFIED IN EROSION AND SEDIMENT CONTROL PRACTICES BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

#### CONSTRUCTION SEQUENCE

DISCHARGE IN OR NEAR ANY WATER COURSE.

FEDERAL PERMITS PREVIOUSLY OBTAINED.

#### SITE PREPARATION

POSSIBLE.

- INSTALL APPLICABLE UPLAND EROSION AND SEDIMENTATION CONTROLS AT THE SITE.
- MOBILIZE APPLICABLE EQUIPMENT AND MATERIALS.
- COMMENCE TREE CLEARING, STUMPING, AND GRUBBING. WORK MAY NOT OCCUR WITHIN THE WATERBODY UNTIL AFTER JULY 15 OR AS SPECIFIED IN THE PERMIT.
- COORDINATE TRAFFIC CONTROL PLAN WITH THE ENGINEER AND APPLICABLE AUTHORITIES (PUBLIC WORKS, MeDOT OR OTHERWISE)
- CONSTRUCTION COMMENCEMENT . INSTALL TOWN OWNED TURBIDITY CURTAIN DOWN STREAM.
- INSTALL UPSTREAM AND DOWNSTREAM COFFERDAMS FOR ABUTMENT PLACEMENT.
- MAINTAIN BYPASS FLOWS THROUGH THE EXISTING CULVERT. AT NO TIME DURING CONSTRUCTION SHALL FLOW BE BLOCKED COMPLETELY. A MINIMUM AQUATIC BASEFLOW SHALL BE BYPASSED AT ALL TIMES, AS DETERMINED BY THE PERMITTING AUTHORITIES AND AS DIRECTED BY THE ENGINEER.
- INSTALL WORK ZONE DEWATERING SYSTEM. ENSURE THAT DEWATERING DISCHARGES ARE DIRECTED TO A STABILIZED DISCHARGE AREA IN AN APPROVED UPLAND LOCATION. COORDINATE THE EXACT LOCATION AND BMPS TO BE UTILIZED WITH THE ENGINEER.
- COMMENCE REMOVAL OF PAVEMENT AND EXCAVATION TO SUBGRADE FOR THE NEW CULVERT.
- MAINTAIN THE DEWATERING SYSTEM AS NEEDED TO ENSURE THAT WORK OCCURS IN THE DRY. MAINTAIN ALL ASSOCIATED DEWATERING BMPS AS NEEDED TO MEET THE REQUIREMENTS OF THE PERMIT AS DIRECTED BY THE ENGINEER.
- STOCKPILE NATIVE STREAM MATERIALS FOR REUSE AS BACKFILL. COORDINATE STOCKPILE LOCATION WITH THE ENGINEER.
- PROOF ROLL OR OTHERWISE PREPARE THE UNDISTURBED SUBGRADE FOR FOOTING PLACEMENT.
- COMMENCE INSTALLATION/FORMING OF FOOTINGS.
- 10. COMMENCE PLACEMENT OF BOX CULVERT SECTIONS, PLACE RIPRAP ARMOUR AND INTERIOR BACKFILL.
- 11. COMMENCE INSTALLATION OF STREAM BANK BOULDERS TO THE LINES AND GRADES SHOWN ON THE PLANS.
- 12. FILL AREAS WITHIN THE CULVERT WITH NATIVE STREAM BED MATERIALS TO THE LINES AND GRADES SHOWN ON THE PLANS.
- 13. FILL VOIDS WITHIN THE STREAM BANK BOULDERS BY CHOKING THE INTERSTITIAL SPACES WITH NATIVE STREAM BED MATERIALS.
- 14. COMPLETE INSTALLATION OF LOWER BOX CULVERT SECTIONS.
- 15. COMPLETE INSTALLATION OF STREAM BANK BOULDERS WITHIN THE WORK AREA.
- 16. COMPLETE BACKFILLING OF CULVERT WITH NATIVE STREAM BANK MATERIAL.
- 17. COMMENCE INSTALLATION OF UPPER BOX CULVERT SECTIONS.
- 18. COMMENCE INSTALLATION OF HEADWALL AND WINGWALL STRUCTURES WITHIN THE WORK AREA.
- 19. COMMENCE FILLING AND BACKFILLING OF BOX CULVERT AND HEADWALL/WINGWALL STRUCTURES TO EMBANKMENT GRADES AND ROADWAY SUBGRADE.
- 20. MAINTAIN APPROPRIATE EROSION AND SEDIMENTATION CONTROLS, SUCH AS SILT FENCING AROUND THE PERIMETER OF ALL DISTURBED AREAS.
- 21. PERMANENTLY STABILIZE EMBANKMENT SLOPES WITHIN THE WORK AREA.
- 22. REMOVE DEWATERING SYSTEM.
- 23. REMOVE COFFER DAMS.
- 24. DIRECT STREAM FLOW THROUGH THE CONSTRUCTED STREAM BED AND BOX CULVERT.
- 25. TEMPORARILY STABILIZE ANY OTHER REMAINING LOCATIONS WITHIN THE WORK AREA.

#### CONSTRUCTION COMPLETION

- . COMMENCE INSTALLATION OF ROADWAY GRAVELS.
- COMMENCE INSTALLATION OF BINDER PAVEMENT.
- COMMENCE INSTALLATION OF ROADWAY AND TRAFFIC CONTROL DEVICES, SUCH AS GUARDRAIL, AS INDICATED ON THE PLANS.
- COMPLETE PERMANENT STABILIZATION ON ALL AREAS DISTURBED BY CONSTRUCTION. ALL AREAS NOT RECEIVING STRUCTURAL STABILIZATION MEASURES SHALL BE PERMANENTLY STABILIZED WITH LOAM, SEED AND MULCH. EROSION CONTROL BLANKETS MAY ALSO BE REQUIRED DEPENDING ON TIME OF YEAR.
- COMMENCE AND COMPLETE INSTALLATION OF FINAL PAVING.
- IN CONFORMANCE WITH THE TRAFFIC CONTROL PLAN, REOPEN THE ROADWAY TO VEHICULAR TRAFFIC. COORDINATE REOPENING WITH THE APPROPRIATE AUTHORITY (PUBLIC WORKS, MeDOT, ETC.) AND THE ENGINEER.
- COMPLETE ALL PERMANENT STABILIZATION.
- DEMOBILIZE REMAINING EQUIPMENT AND MATERIALS FROM THE PROJECT AREA.
- REMOVE REMAINING EROSION AND SEDIMENTATION CONTROLS.



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<b>EROSION &amp; SEDIMENTATION</b>

CONTROL NOTES

IN ORDER TO PROTECT THE SOIL AND WATER RESOURCES OF THIS DEVELOPMENT AND ADJACENT LANDS, THE FOLLOWING ACTIONS SHALL BE TAKEN:

(WHEN CONSTRUCTION IS INITIATED ON FROZEN GROUND, WOOD WASTE COMPOST/BARK FILTER BERM SHALL BE UTILIZED IN LIEU OF

SILT FENCE. SEE DETAIL, THIS SHEET.)

A. EROSION CONTROL/TEMPORARY MEASURES

THE FOLLOWING TEMPORARY MEASURES TO CONTROL EROSION AND SEDIMENTATION SHALL BE USED.

- 1. SEDIMENT BARRIER (SILT FENCE OR WOOD WASTE COMPOST/BARK FILTER (BERM) WILL BE INSTALLED AROUND THE LIMITS OF CLEARING ASSOCIATED WITH EACH PORTION OF THIS PROJECT. THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/2 ACRE PER 100 ft. OF BARRIER LENGTH (THE MAXIMUM LENGTH OF SLOPE ABOVE THE BARRIER IS 100 FEET AND THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 50 PERCENT (2:1). IF THE SLOPE IS GREATER, OTHER MEASURES SUCH AS DIVERSIONS MAY BE NECESSARY TO REDUCE THE SLOPE LENGTH. SEDIMENT BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SEDIMENT BARRIER WILL BE INSTALLED TO SPECIFICATIONS OUTLINED IN THE MOST RECENT MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES.
- GROUND AREA OPENED OR EXPOSED, WHETHER DIRECTLY OR INDIRECTLY DUE TO THE PROJECT CONSTRUCTION, SHALL BE MINIMIZED AND SHALL BE STABILIZED WITHIN 15 DAYS OF THE INITIAL DISTURBANCE OF THE MINERAL SOIL, AND SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- TEMPORARY SOIL STABILIZATION SHALL BE EITHER BY TEMPORARY MULCHING, TEMPORARY SEEDING, PERMANENT BASE GRAVEL, OR ASPHALT BASE COURSE AS FOLLOWS:
- A. TEMPORARY SEEDING SEED SHALL BE AROOSTOOK RYE APPLIED AT 3.0#/1000 sf. LIME SHALL BE AGRICULTURAL GROUND LIMESTONE APPLIED AT 138#/1000 sf. FERTILIZER SHALL BE 10-10-10 CLASSIFICATION APPLIED AT 13.8#/1000 sf. MULCH SHALL CONSIST OF HAY OR STRAW MULCH AND SPREAD EVENLY AT A RATE OF 70-90#/1000 sf. TEMPORARY SEEDINGS SHALL ONLY BE MADE BETWEEN APRIL 15TH AND OCTOBER 15TH, AND SHALL NOT BE PLACED OVER SNOW. IF THE SEEDING IS NOT COMPLETED BY OCTOBER 15TH, ADDITIONAL MULCH SHALL BE ADDED TO PROVIDE ADEQUATE WINTER PROTECTION.
- B. TEMPORARY MULCHING MULCH SHALL CONSIST OF CHOPPED HAY OR STRAW MULCH AND SPREAD BY MECHANICAL BLOWER, OR BY HAND IF ADJACENT TO WETLAND HABITAT, EVENLY AT A RATE OF 150- 200#/1000 sf. TEMPORARY MULCH SHALL BE REMOVED PRIOR TO PERMANENT SOIL STABILIZATION. MULCH MUST NOT BE PLACED OVER SNOW
- C. PERMANENT BASE GRAVEL BASE GRAVEL UNDER PAVEMENT SHALL BE SUITABLE AS TEMPORARY SOIL STABILIZATION UNDER THE FOLLOWING CONDITIONS: SLOPES SHALL BE LESS THAN 5 PERCENT.
- GRAVEL SHALL MEET THE SPECIFICATIONS FOR BASE OR SUB-BASE GRAVEL FOR THE PROPOSED COMPLETED PAVEMENT. D. ASPHALT BASE COURSE ASPHALT BASE SHALL MEET THE SPECIFICATIONS FOR THE ASPHALT BASE COURSE FOR THE
- PROPOSED COMPLETED PAVEMENT.
- 4. PRIOR TO TOPSOIL REMOVAL, SILT FENCING SHALL BE STAKED AS SHOWN ON THE PLAN. 5. STRIPPED TOPSOIL SHALL BE STOCKPILED FOR REUSE DURING FINAL GRADING. THE PILE SHALL BE HEAVILY MULCHED WITH HAY WHILE STOCKPILED.
- 6. TO REDUCE OR ELIMINATE THE TRACKING OF EARTH MATERIALS ONTO PUBLIC RIGHT-OF-WAYS, A STABILIZED PAD OF CRUSHED STONE LOCATED AT THE DESIGNATED ACCESS POINT SHALL BE ESTABLISHED.
- 7. 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.
- 8. BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION AND SEDIMENT CONTROL
- MEASURES MAY BE REQUIRED TO STOP SOIL FROM LEAVING THE SITE.
- EROSION CONTROL/PERMANENT MEASURES . EXCESSIVELY STEEP SLOPES (2:1 OR GREATER) SHALL BE PROTECTED BY EROSION CONTROL EXCELSIOR BLANKET WITH BIODEGRADABLE PLASTIC OR JUTE MESH AFTER SEEDING.
- PERMANENT SEEDING SHALL BE PERFORMED DURING CONSTRUCTION OPERATIONS AS EACH DISTURBED AREA HAS BEEN BROUGHT TO FINISH GRADE. ALL AREAS SHALL BE SEEDED WITH ONE OF THE FOLLOWING: A. <u>CONSERVATION/WILDLIFE MIX</u>

20% KENTUCKY BLUEGRASS 30% CREEPING RED FESCUE 15% PERENNIAL RYEGRASS	6% WHITE CLOVER 15% ANNUAL RYEGRASS 14% PENNFINE RYEGRASS
B. <u>COTTAGE MIX</u> 50% CREEPING RED FESCUE 15% PERENNIAL RYEGRASS	20% ANNUAL RYEGRASS 15% TALL FESCUE
C. <u>PARK_MIX</u> 25% KENTUCKY BLUEGRASS 30% CREEPING RED FESCUE 15% CHEWING FESCUE	20% ANNUAL RYEGRASS 10% PERENNIAL RYEGRASS

- D. NORTHEAST WILDFLOWER MIX (SEE NOTE 4 THIS SECTION)
- THE CONTRACTOR SHALL MAINTAIN THE SEEDED AND MULCHED AREAS UNTIL FINAL ACCEPTANCE OF THE WORK MAINTENANCE SHALL CONSIST OF PROVIDING PROTECTION AGAINST TRAFFIC AND REPAIRING ANY AREAS DAMAGED DUE TO WIND, WATER, EROSION, FIRE OR OTHER CAUSES. SUCH DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION AND GRADE OF THE SOIL PRIOR TO SEEDING AND SHALL THEN BE RE-FERTILIZED, RE-SEEDED AND RE-MULCHED.
- PERMANENT WILDFLOWER STABILIZATION: PROVIDE 3" OF LOAM OVER DISTURBED OR NEWLY GRADED SLOPES. APPLY WILDFLOWER SEED MIX ACCORDING TO THE FOLLOWING MIX SPECIFICATIONS. ESTABLISH WILDFLOWER MIX PRIOR TO SEPTEMBER 1. MULCH SHALL BE WEED-SEED FREE STRAW MULCH. APPLIED AT THE RATE OF 4 BALES PER 1000 SQUARE FEET, AS DESCRIBED IN SECTION D. WINTER STABILIZATION. JUTE MULCH NETTING ANCHORING SHALL BE PROVIDED. APPLIED IN CONTINUOUS OVERLAPPING ROLLS WITH THE CONTOUR. NETTING SHALL BE APPLIED FROM THE BOTTOM OF SLOPES UP. 8 GAUGE, 6" PLAIN IRON WIRE STAPLES SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATION.
- NORTHEAST WILDFLOWER MIX: 14% PERENNIAL LUPINE 7% LANCE LEAF COREOPSIS 6% DAVEY'S ROCKET 6% PURPLE CONEFLOWER 5% BLACK EYED SUSAN 5% SIBERIAN WALLFLOWER 4% CORN POPPY 4% EVENING PRIMROSE 2% BLANKET FLOWER
- 2% SHASTA DAISY
- 1% NEW ENGLAND ASTER
- 8% SCARLET FLAX 2% CATCHFLY 1% SPURRED SNAPDRAGON

12% BACHELORS BUTTONS

8% BABY'S BREATH

8% ROCKET LARKSPUR

- 1% WHITE YARROW C. WINTER STABILIZATION
- 1. PROVIDE WINTER STABILIZATION IN LIEU OF PERMANENT SEEDING AFTER SEPTEMBER 1, IN LIEU OF SODDING AFTER NOVEMBER 15, AND FOR ALL WORK REQUIRING TEMPORARY STABILIZATION AFTER OCTOBER 15 AS FOLLOWS:
- 2. STRAW MULCH: PLACE STRAW MULCH AT THE APPLICATION RATE OF 150 LBS/1000 sf ON DISTURBED AREAS LESS THAN 8% SLOPE AND NOT SUBJECT TO FLOWING WATER REQUIRING STABILIZATION. ANCHOR ALL MULCH WITH MULCH NETTING AND STAPLES OR WITH STAKES AND TWINE. STAKES AND TWINE SHALL BE APPLIED AT THE RATE OF 4 TO 6 PEGS PER SQUARE YARD WITH CRISS-CROSSED TWINE STRUNG TAUT BETWEEN ALL PEGS AND SECURED AT EACH PEG WITH ONE OR MORE TURNS OF TWINE.
- EROSION CONTROL MIX MULCH: APPLY EROSION CONTROL MIX MULCH AS AN ALTERNATIVE TO STRAW MULCH OR MATS ON STEEP SLOPES ONLY AT RATES SPECIFIED IN DEP PUBLICATION "MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES" (MOST RECENT EDITION).
- 4. MATS: PLACE FABRICATED MULCH AND NETTING CONTROL MATS WITH ANCHORING AS SPECIFIED BY THE MANUFACTURER, TO STABILIZE DISTURBED AREAS AND SLOPES GREATER THAN 8%, SUBJECT TO FLOWING WATER (SUCH AS SWALE OR DITCH SECTIONS), OR CUT SLOPE SUBJECT TO WEEPING GROUNDWATER.
- 5. RIPRAP: ALL RIPRAP MINIMUM D50=2", PLACED IN 4" LIFTS AS AN ALTERNATIVE TO STRAW MATS ON STEEP SLOPES OR FLOWING WATER CONDITIONS.
- D. STABILIZATION PERFORMANCE CRITERIA 1. PERMANENT STABILIZATION IS DEFINED AS FOLLOWS:
- 2. 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.
- 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.
- 4. NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL-ESTABLISHED WITH 90% COVER BY HEALTHY VEGETATION. IF NECESSARY, AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. 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.
- 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.
- 6. PAVED AREAS. FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED, PROVIDED IT IS FREE OF FINE MATERIALS THAT MAY RUNOFF WITH A RAIN EVENT
- 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. TURF REINFORCEMENT MAT. 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.

# AGGREGATE FOR GRAVEL BASE & SUBBASE

SIEVE DESIGNATION	PERC
	TYPE AGGREG
4 INCH	
3 INCH	
2 INCH	
1 INCH	
1/2 INCH	45-70
1/4 INCH	30-55
No. 4	
No. 40	0-20

No. 200 0-6.0

CONSTRUCTED.

EACH LAYER AS APPLIED.

TEMPLATE LINES.

- COMMON BORROW
- STRUCTURAL BACKFILL STRUCTURAL BACKFILL IN LIFTS OF 10"-12" MAXIMUM DEPTH.



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REVIEW.





## BE MAINTAINED AT THE PROPER PERCENTAGE TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE 3/8 INCHES ABOVE OR BELOW THE REQUIRED COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL. THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM. STRUCTURAL BACKFILL CONFORMING TO MaineDOT 703.20 SHALL BE UTILIZED IN THE ABSENCE OF GEOTECHNICAL REPORT RECOMMENDATIONS FOR FILL BELOW AND AJACENT TO FOUNDATIONS, FOOTINGS AND SLABS. PROVIDE DEWATERING AND PERMANENT DRAINS WHERE INDICATED. COMPACT ALL STRUCTURAL BACKFILL TO 95% MODIFIED PROCTOR DENSITY. PLACE



AGGREGATE FOR GRAVEL BASE FOR TYPE A, B & C SHALL BE CRUSHED LEDGE OR GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. AGGREGATE FOR GRAVEL BASE FOR TYPE D SHALL BE SAND OR GRAVEL OF HARD DURABLE PARTICLES FREE FROM



**TYPICAL BOX CULVERT STRIP FOOTING** SCALE:  $\frac{3}{4}$ " = 1'-0"

#### FOUNDATIONS:

CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN STABILITY AND PREVENT UNDERMINING OF EXISTING FOUNDATIONS AT ALL TIMES.

NO FOUNDATIONS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

ALL FOOTINGS ARE TO BE EXCAVATED USING A BUCKET WITH A SMOOTH TOOTHLESS CUTTING EDGE. FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND FOR NOT LESS THAN THE LAST SIX INCHES. STRUCTURAL FILL SHALL BE GRADED WITHIN THE FOLLOWING LIMITS:

SCREEN OR SIEVE SIZE PERCENT FINER BY WEIGHT

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١N	IСН	25	%	_	60%
О.	40	0-	-2	5%	
О.	200	0-	- 52	76	

STRUCTURAL FILL SHALL BE COMPACTED IN 6" LIFTS TO 95% OF ITS MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.

FOUNDATION BACKFILL SHALL BE WELL DRAINING MATERIAL MEETING THE FOLLOWING GRADATION SPECIFICATIONS:

SCREEN OR SIEVE SIZE PERCENT FINER BY WEIGHT 3 INCH 100%

¼ INCH	60% - 100%
NO. 40	0 - 50%
NO. 200	0 - 7%

THE FOUNDATION BACKFILL SHOULD BE PLACED IN 6 TO 12 INCH LIFTS AND SHOULD BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557

DRAINAGE STONE SHALL CONSIST OF CLEAN ANGULAR FRAGMENTS OF QUARRIED ROCK WITH UNIFORM QUALITY AND BE GRADED AS FOLLOWS:

SCREEN OR	SIEVE SIZE PERCENT FINER BY WEIGHT
2½ INCH	100%
2 INCH	95% - 100%
1 INCH	0 — 30%
NO. 200	0 — 5%

AT LOCATIONS WHERE ANY PART OF FOOTING BEARS DIRECTLY ON LEDGE, SUFFICIENT LEDGE SHALL BE REMOVED TO PROVIDE A LEVEL-BEARING SURFACE IN ALL DIRECTIONS. THOROUGHLY CLEAN LEDGE SURFACE PRIOR TO PLACING CONCRETE.

UNLESS OTHERWISE NOTED, ALL FOUNDATION UNITS SHALL BE CENTERED UNDER SUPPORTED MEMBERS. WHERE FOUNDATION ELEMENTS ARE TO HAVE FILL ON BOTH SIDES, EACH SIDE SHALL BE FILLED

SIMULTANEOUSLY, MAINTAINING A COMMON ELEVATION.

CONTRACTOR SHALL PROVIDE CONTINUOUS DRAINAGE BY MECHANICAL METHODS TO CONTROL SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION, SO THAT ALL EXCAVATIONS ARE DRY.

THE OWNER, THE STRUCTURAL ENGINEER AND THEIR CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR

ALL LOCATIONS WHERE BEDROCK IS REMOVED SHALL BE FREE DRAINING SO THAT NO POCKETS OF UNDERGROUND WATER COLLECT.

#### CONCRETE:

TEST PITS.

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

- ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
- ACI 305 "HOT WEATHER CONCRETING"
- ACI 306 "COLD WEATHER CONCRETING" ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

CONCRETE FOR FOOTINGS, FOUNDATION WALLS AND PIERS SHALL USE TYPE II CEMENT (PER ASTM C150), HAVE

A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI, MAXIMUM AGGREGATE SIZE OF 3/4" (NOMINAL), MAXIMUM WATER-CEMENT RATIO OF 0.60, MAXIMUM SLUMP OF 4", AND A TOTAL AIR CONTENT OF 6%  $\pm 1\%$ . CONCRETE FOR FOOTINGS, FOUNDATION WALLS, BULKHEADS, AND EXTERIOR SLABS EXPOSED TO SALTWATER

SHALL USE TYPE II CEMENT (PER ASTM C150), HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI, MAXIMUM AGGREGATE SIZE OF 3/4" (NOMINAL), MAXIMUM WATER-CEMENT RATIO OF 0.40, MAXIMUM SLUMP OF 4", AND A TOTAL AIR CONTENT OF 7% ±1%. MIX DESIGN SHALL INCLUDE DCI CORROSION INHIBITOR AT 4.0 GAL/CUBIC YARD OF CONCRETE.

ALL FOOTINGS SHALL BE PLACED MONOLITHICALLY.

ALL CONCRETE SHALL BE REINFORCED, UNLESS INDICATED OTHERWISE.

ALL EMBEDMENTS IN CONCRETE, INCLUDING ANCHOR BOLTS, SHALL BE FIRMLY SECURED BY TIE WIRE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

ALL CONCRETE MATERIALS, REINFORCEMENT AND FORMS SHALL BE FREE FROM FROST.

CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F, AND IN MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.

CONSOLIDATE ALL CONCRETE WITH A VIBRATOR OR OTHER MEANS RECOMMENDED BY ACI 301. HONEYCOMBED SURFACES WILL NOT BE PERMITTED.

DEFECTIVE CONCRETE IS DEFINED AS CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS, DIMENSIONS, TOLERANCES OR SPECIFIED REQUIREMENTS. REPAIR OR REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY THE ENGINEER OR ARCHITECT. THE COST OF ADDITIONAL TESTING SHALL BE BORNE BY THE CONTRACTOR WHEN DEFECTIVE CONCRETE IS IDENTIFIED.

PERMANENTLY EXPOSED EMBEDED STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED STEEL FOR A MINIMUM OF 7 DAYS AFTER CASTING.

#### **REINFORCING FOR CONCRETE:**

ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 EXCEPT WHERE NOTED.

DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 -"MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," LATEST EDITION.

PROVIDE AND SCHEDULE WITH THE SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCING SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE:

high chairs 4'-0" on center SLAB BOLSTERS 4'-0" ON CENTER

SUPPORT BARS FOR HIGH CHAIRS NO. 5

REINFORCING BARS MAY NOT BE WELDED.

CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS, UNLESS NOTED OTHERWISE:

FOOTINGS: 3" FOUNDATION WALLS: 2" MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE  $\frac{1}{2}$  INCH FOR SECTIONS 10 INCHES THICK OR LESS; AND 1 INCH FOR SECTIONS OVER 10 INCHES THICK. SEE ACI 318 FOR CONDITIONS NOT LISTED. ALL HOOKS SHOWN ON DRAWINGS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.

WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES, OR HOOKED AT DISCONTINUOUS ENDS. LAP LENGTHS SHALL BE A MINIMUM OF 50 TIMES THE BAR DIAMETER UNLESS NOTED OTHERWISE. LAP BEAM TOP BARS AT MID-SPAN AND BEAM BOTTOM BARS AT SUPPORTS, UNLESS NOTED OTHERWISE.

### **GENERAL NOTES:**

THE STRUCTURAL DESIGN IS LIMITED TO DESIGN OF THE FOOTING SUPPORTING THE BOX CULVERT. DESIGN OF THE BOX CULVERT IS THE RESPONSIBILITY OF OTHERS. NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO THE COMPLETION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDEDOR OF DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING AND TEMPORARY BRACING DURING THE PROGRESS OF THE PROJECT.

WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE INCLUDED.

THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT STRUCTURES, PROPERTY, AND THE PUBLIC. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

#### **DESIGN CRITERIA:**

DESIGN AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, INCLUDING THE FOLLOWING:

AASHTO LRFD GUIDE BRIDGE DESIGN SPECIFICATION ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

DESIGN LOADS ON THE STRUCTURE ARE AS FOLLOWS:

DEAD LOAD

PRECAST BOX CULVERT = 900 PLF WEARING SURFACE = 225 PFL

BRIDGE DECK LIVE LOAD

TRUCK LIVE LOAD = HL-93

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Image: Solution of Canadian Media     CLENTPROJECT: TOWN OF CAMDEN       Image: Solution Street, Unit 1, P.O. Box 1031 Canden, ME 0483-103     PARKING LOT DRAIN RECREATIONAL AREA       Image: Solution Street, Unit 1, P.O. Box 1031 Canden, ME 0483-103     PARKING LOT DRAIN RECREATIONAL AREA       Image: Solution Street, Unit 1, P.O. Box 1031 Canden, ME 0483-103     PARKING LOT DRAIN RECREATIONAL AREA       Image: Solution Street, Unit 1, P.O. Box 1032 Canden, ME 0483-103     PARKING LOT DRAIN RECREATIONAL AREA       Image: Solution Street, Unit 1, P.O. Box 1032 Canden, ME 0483-103     PARKING LOT DRAIN AGE IMPROVEMENTS       Image: Solution Street, Unit 1, P.O. Box 1032 Canden, ME 0483-103     PARKING LOT DRAIN AGE IMPROVEMENTS       Image: Solution Street, Unit 1, P.O. Box 1072 Damatiscotta, Maine 04543     PARKING LOT DRAIN AGE IMPROVEMENTS       Image: Solution Street Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543     PARKING LOT DRAIN ROAD       Image: Solution Street Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543     PARKING LOT DRAIN ROAD       Image: Solution Street Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543     Parking Correct Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543       Image: Solution Street Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543     Parking Correct Suite 2FP.O. Box 1072 Damatiscotta, Maine 04543
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# SURVEYOR'S NOTES:

2) ALL DIRECTIONS ARE REFERENCED TO GRID NORTH OF THE MAINE COORDINATE SYSTEM OF 1983 (2011), EAST ZONE. BASED ON AN RTK GPS SURVEY.

3) ELEVATIONS ARE REFERENCED TO NAVD 88 BASED ON STATIC GPS OBSERVATIONS PERFORMED ON NOVEMBER 30, 2017 AND PROCESSED THROUGH THE NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS).

4) THIS PLAN IS THE RESULT OF AN ON THE GROUND FIELD SURVEY PERFORMED ON JULY 16-22, 2019.

## LEGEND

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	EXISTING CONTOUR					
-0-	EXISTING UTILITY POLE					
$\rightarrow$	EXISTING GUY ANCHOR					
——————————————————————————————————————	EXISTING OVERHEAD UTILITY LINE					
¢	EXISTING LIGHT					
	EXISTING STORM PIPE					
	EXISTING CATCH BASIN					
$\square$	EXISTING BOULDER					
	EXISTING POST					
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						NO. REVISIONS
	UNDITIONS & HIC SURVEY				DRAWN BY: SAT	CHECKED BY: JAD
SHEET TITLE:	TOPOGRAF			SCALE: $1'' = 30'$		DATE: JULY 23, 2019
<sup>cr:</sup> TOWN OF CAMDEN	<b>D MOUNTAIN RECREATIONAL AREA</b>	<b>IG LOT DRAINAGE IMPROVEMENTS</b>		ARNSTOWN ROAD		<b>1DEN</b> COUNTY: KNOX STATE: MAINE
CLIENT/PROJEC	LUUTSKY RAGGEI	► SURVEYING PARKIN		5 Toll Free 1-888-282-4365 LOCATION: <b>B</b> <sub>1</sub>	Damariscotta, Maine 04543	005 TOWN: CAM
	Carney 2	ENGINEERING		Ph (207) 236-4365 Fax (207) 236-3055	165 Main Street Suite 2F P.O. Box 1072	Ph. (207) 790-5
THIS PLAN PRELIMINARY	L. NO.	STEVEN A.	#2366 	97	USURVEY	WITHOUT SIGNATURE

**V4** 

