

NOTES:

SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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 STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

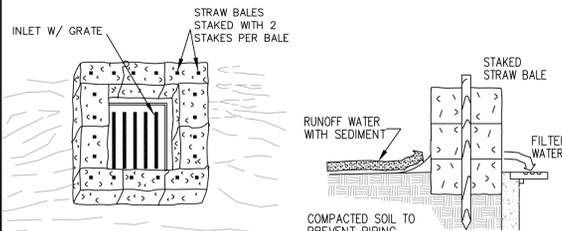
SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

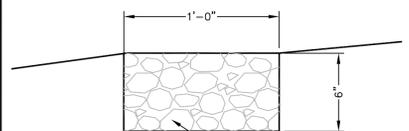
SILT FENCE DETAIL
NOT TO SCALE

STRAW BALE INLET NOTE
CONSTRUCTION SPECIFICATIONS

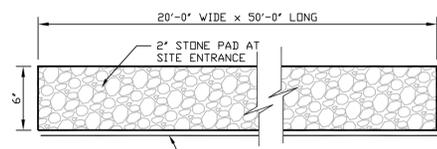
- STRAW BALE INLET STRUCTURE
 - BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH BINDINGS ORIENTED AROUND THE SIDE RATHER THAN OVER AND UNDER THE BALES.
 - BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
 - THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
 - EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBAR DRIVEN THROUGH THE BALE.
 - LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.



STRAW BALE INLET
NOT TO SCALE

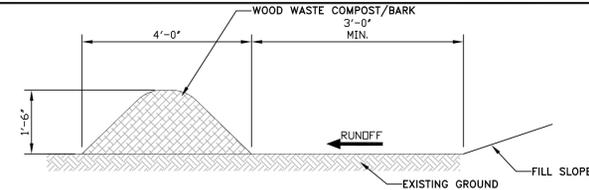


PEA GRAVEL DIAPHRAGM
NOT TO SCALE



- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO ROAD.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



WOOD WASTE COMPOST/BARK FILTER BERMS

THE FILTER BERM SHALL CONSIST OF A WOOD WASTE COMPOST/BARK MULCH MIX OR RECYCLED COMPOSTED BARK FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. COMPOSTED MIXES CAN BE USED UPON APPROVAL OF THE OFFICE OF ENVIRONMENTAL SERVICES LANDSCAPE UNIT.

THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

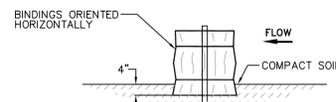
- MOISTURE CONTENT - 30-60%
- pH - 5.0-8.0
- SCREEN SIZE - 100% LESS THAN 3", MAXIMUM 70% LESS THAN 1"
- NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION
- NO STONES LARGER THAN 2" IN DIAMETER

THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.

NOTE:

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

WOOD WASTE COMPOST/BARK FILTER BERM ALTERNATIVE
NOT TO SCALE

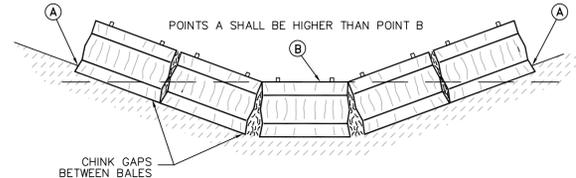
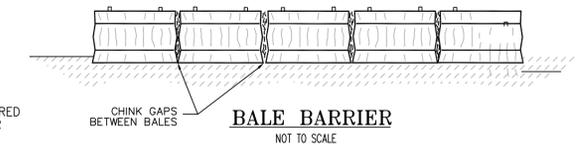


MAINTENANCE

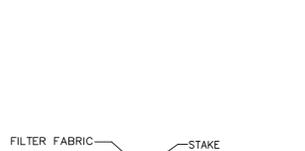
- THE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. THEY MUST BE REMOVED WHEN THE BARRIER IS REMOVED.

NOTES:

- BALES ARE HAY OR STRAW DIMENSIONS: 14" x 18" x 30". WIRE OR NYLON, PLACED IN DRAINAGE AREAS UPON THE CONTOUR OF THE GROUND. BALES ARE TO BE PLACED IN A ROW, WITH ENDS TIGHTLY SET AGAINST THE ADJACENT BALE.
- EACH BALE IS TO BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND ANCHORED IN PLACE BY STAKES DRIVEN THRU THE BALES INTO THE GROUND AT LEAST 18". THE STAKES ARE TO BE DRIVEN IN SUCH A MANNER AS TO FORCE THE ENDS OF THE BALES TOGETHER. STAKES MAY BE REBAR STEEL PICKETS, 2" x 2" SOFTWOOD, OR 1" x 1" HARDWOOD.



SILT FENCE/BALE BARRIER DETAIL
NOT TO SCALE



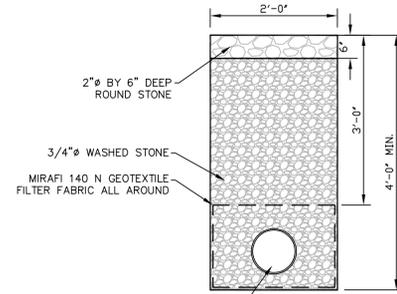
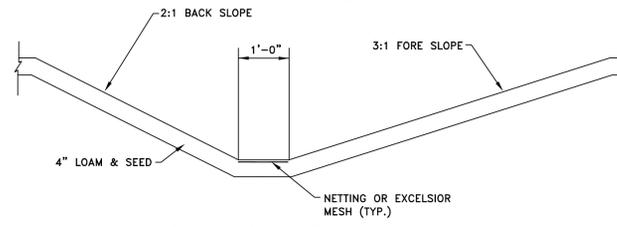
- NOTES:**
- ANY SEDIMENT BARRIERS LOCATED AT LOW POINTS OR SUBJECT TO PONDING ALONG THE FENCE SHALL BE REINFORCED AS SHOWN ABOVE WITH A COMBINATION OF HAYBALES & SILT FENCE. THE CONTRACTOR SHALL REMOVE SEDIMENT TRAPPED AT THESE LOW POINTS AFTER EVERY STORM EVENT.

SPECIFICATIONS

UPON FINAL GRADING, THE DISTURBED AREAS SHALL BE IMMEDIATELY SEEDED TO PERMANENT VEGETATION AND MULCHED. THE DITCH WILL NOT BE UTILIZED AS AN OUTLET UNTIL A DENSE, VIGOROUS VEGETATIVE COVER HAS BEEN OBTAINED. NETTING OR EXCELSIOR MESH SHALL BE INSTALLED AT THE BASE OF THE VEGETATIVE CHANNEL.

MAINTENANCE

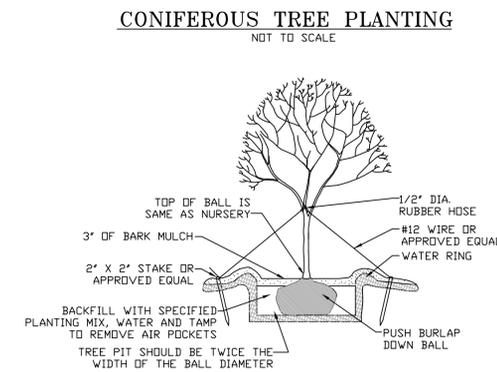
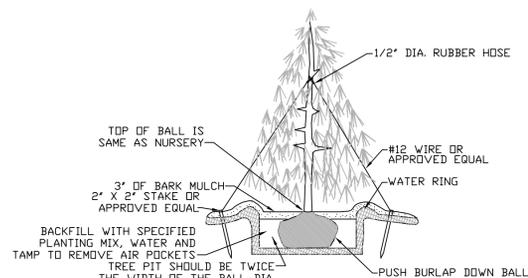
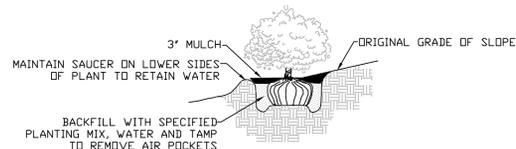
MOW WATERWAY AT LEAST ONCE ANNUALLY. WHEN PRACTICAL, DELAY MOWING UNTIL AFTER JULY 15TH TO ACCOMMODATE GROUND NESTING WILDLIFE. MOW TO A HEIGHT OF 4 TO 6 INCHES TO HELP MAINTAIN GOOD SURFACE PROTECTION. EXCESSIVE GROWTH SHALL BE REMOVED. DO NOT MOW LATER THAN 30 DAYS PRIOR TO THE FIRST KILLING FROST.



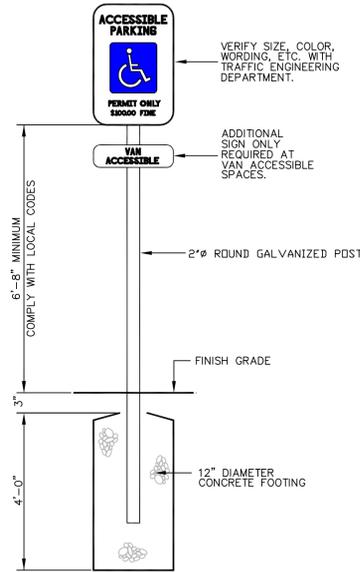
MAINTENANCE

REGULAR INSPECTIONS MUST BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT MUST BE REMOVED WHEN VISIBLE AT THE TOP OF THE DRAIN. WEEDS AND OTHER DEBRIS SHALL BE REMOVED FROM DRAIN PERIODICALLY AFTER ACCUMULATION. THE AREA IN AND AROUND THE DRAIN SHALL BE MOWED AT LEAST SEMI-ANNUALLY. SHOULD DRAIN BECOME PLUGGED OR BROKEN THAT SECTION SHALL BE REPLACED IMMEDIATELY.

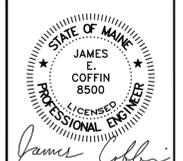
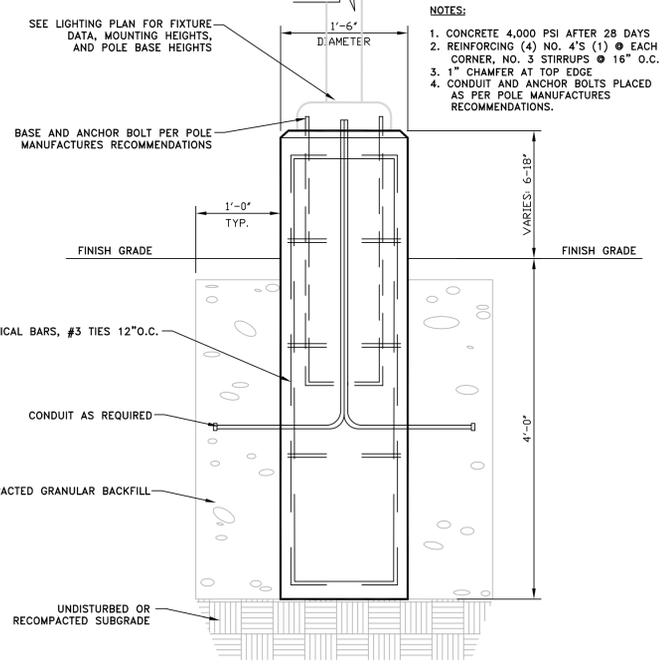
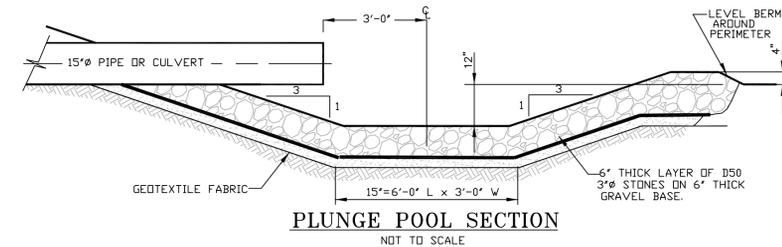
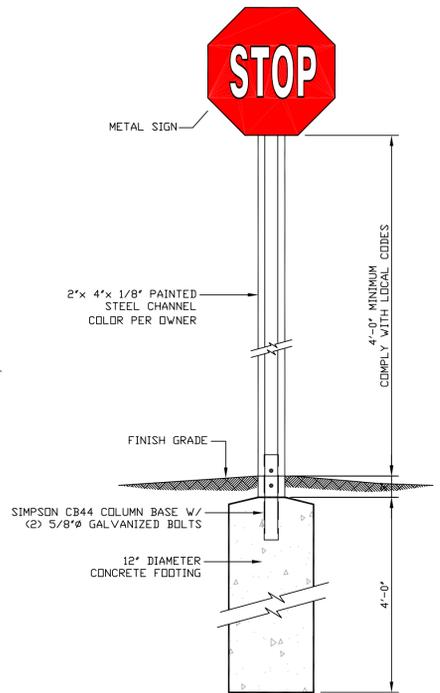
STONE DRIP EDGE DETAIL
NOT TO SCALE



ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE



TYPICAL STOP SIGN DETAIL
NOT TO SCALE



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NO.	REVISIONS	DATE

SITE DETAILS II

CLIENT/PROJECT: **CONNECTED CREDIT UNION**

SCALE: AS SHOWN

DATE: JUNE 12, 2015

LOCATION: CIVIC CENTER DRIVE & GAYWALK STREET

COUNTY: KENNEBEC STATE: MAINE

TOWN: AUGUSTA

DRAWN BY: TCH
CHECKED BY: JEC

PROJ. NO. 2015-025

C-3

GENERAL NOTES

1. AGGREGATE FOR GRAVEL BASE

AGGREGATE FOR GRAVEL BASE SHALL BE SCREENED OR CRUSHED GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES	TYPE A AGGREGATE	TYPE D AGGREGATE
1/2 INCH	45-70	---	---
1/4 INCH	30-55	---	25-70
No. 40	0-20	---	0-30
No. 200	0-5	---	0-5

TYPE "A" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE "D" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYER OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION. AGGREGATE BASE AND SUB-BASE COURSES MAY BE PLACED UPON FROZEN SURFACES WHEN SUCH SURFACES HAVE BEEN PROPERLY CONSTRUCTED.

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYED. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT 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 EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE 3/8 INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

2. AGGREGATE FOR SUB-BASE

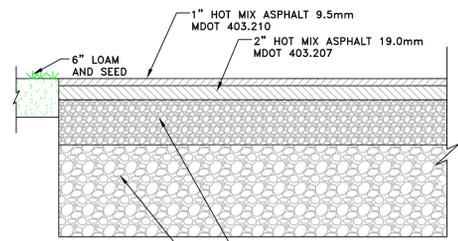
AGGREGATE FOR SUB-BASE SHALL BE TYPE "D" (MDO). IT SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

3. COMMON BORROW

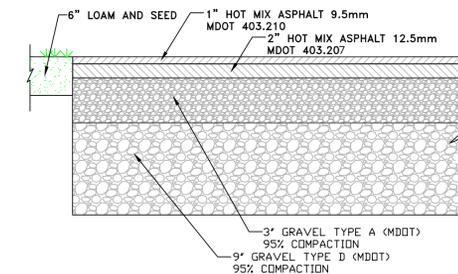
COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

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.

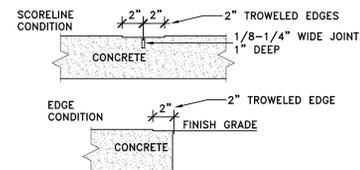
ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAX. DRY DENSITY DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.



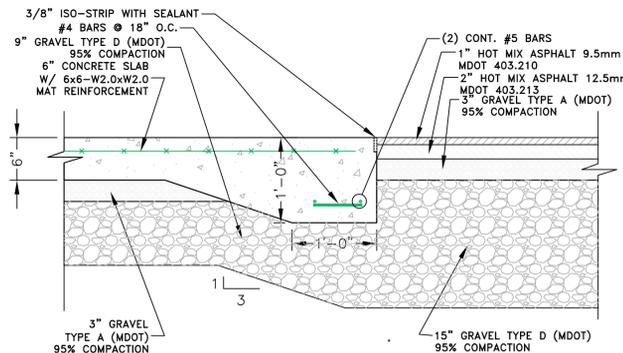
PAVED PARKING AND DRIVE DETAIL
NOT TO SCALE



PAVED SIDEWALK DETAIL
NOT TO SCALE



TOOLED EDGE DETAIL
NOT TO SCALE

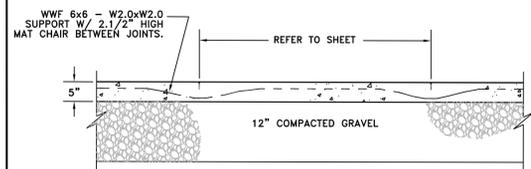


CONCRETE SPECIFICATION:
4000 P.S.I.
3/4" STONE
6% AIR ENTRACEMENT
SLUMP = 3" ± 1"

JOINT SPECIFICATION:
1/2" TOOLED JOINTS A.S.A.P. @ 10'-0" O.C. MAXIMUM
1/8" WIDE x 1" DEEP SAW CUT
AFTER 28 DAYS, CLEAN ALL JOINTS, USE 733 PRIMER, FILL WITH FOAM BACKER ROD & SONOLASTIC SL-2 SEALANT (INSTALL ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

FINISH SPECIFICATION:
FINE BROOM FINISH
CURE W/ CURE-TO-SPEC
AFTER JOINTS HAVE BEEN FILLED AND SEALED APPLY CONSOLIDOCK SALTGUARD (APPLY ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

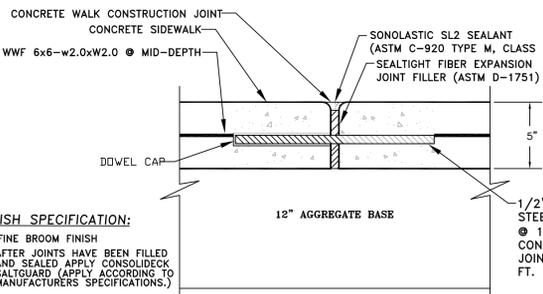
TYPICAL CONCRETE APRON DETAIL
NOT TO SCALE



CONCRETE SPECIFICATION:
4000 P.S.I.
3/4" STONE
6% TO 8% AIR ENTRACEMENT
SLUMP = 3" TO 5"

JOINT SPECIFICATION:
TOOLED JOINTS & EDGES A.S.A.P.
FULL DEPTH CONSTRUCTION JOINTS @ 40' O.C.
AFTER 28 DAYS, CLEAN ALL CONSTRUCTION JOINTS, USE 733 PRIMER, FILL WITH FOAM BACKER ROD & SONOLASTIC SL-2 SEALANT (INSTALL ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

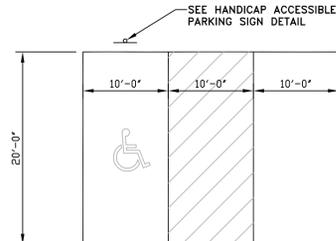
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



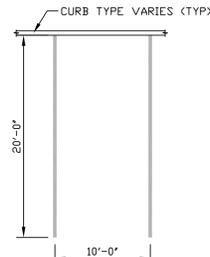
FINISH SPECIFICATION:
FINE BROOM FINISH
AFTER JOINTS HAVE BEEN FILLED AND SEALED APPLY CONSOLIDOCK SALTGUARD (APPLY ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:
1. THE CONTRACTOR SHALL INSTALL FORMWORK FOR NEW CONCRETE SIDEWALKS UPON PREPARED GRAVEL SURFACE
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL WIRE MESH, MAT CHAIRS, CONCRETE, JOINT SEALANT, SALTGUARD, AND LABOR NECESSARY TO PRODUCE COMPLETED CONCRETE SIDEWALKS PER PLANS.
3. THE CONTRACTOR SHALL INSTALL THE DETECTABLE WARNING PLATES AT LOCATIONS AS DIRECTED.

TYPICAL CONCRETE JOINT SECTION
NOT TO SCALE



HANDICAP PARKING DETAIL
NOT TO SCALE



TYPICAL PARKING STALL

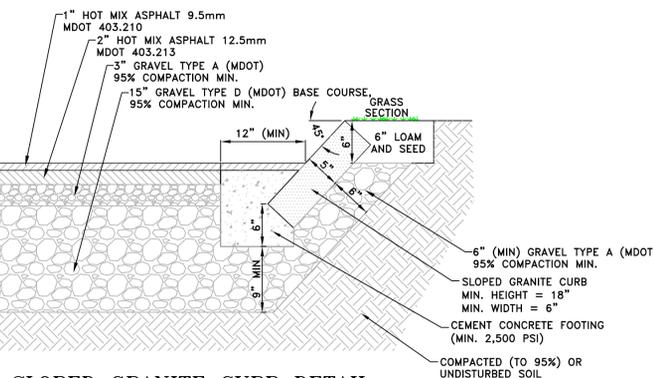
SPECIFICATIONS

PAVEMENT MARKING PAINT FOR FINAL AND TEMPORARY PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF AASHTO M248. EITHER TYPE N (REGULAR TRAFFIC PAINT) OR TYPE F (FAST DRY TRAFFIC PAINT) MAY BE USED.
ALL PAVEMENT LINES AND MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
IMMEDIATELY BEFORE APPLYING THE PAVEMENT PAINT TO THE PAVEMENT OR CURB, THE SURFACE SHALL BE DRY AND ENTIRELY FREE FROM DIRT, GREASE, OIL OR OTHER FOREIGN MATTER.

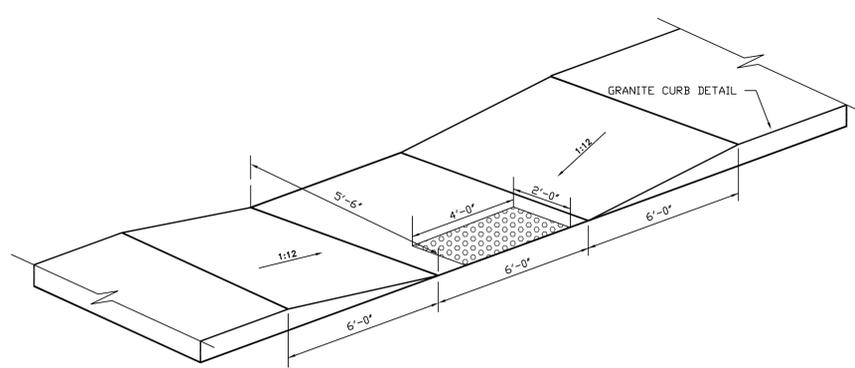
ALL PAVEMENT MARKING LINES SHALL BE 4" SOLID WHITE.

PAVEMENT MARKING DETAIL & SPECIFICATION

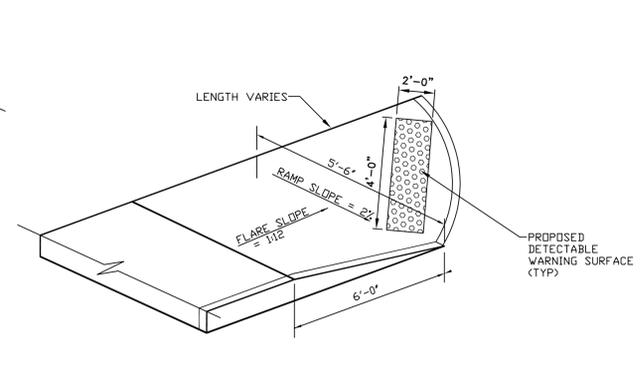
NOT TO SCALE



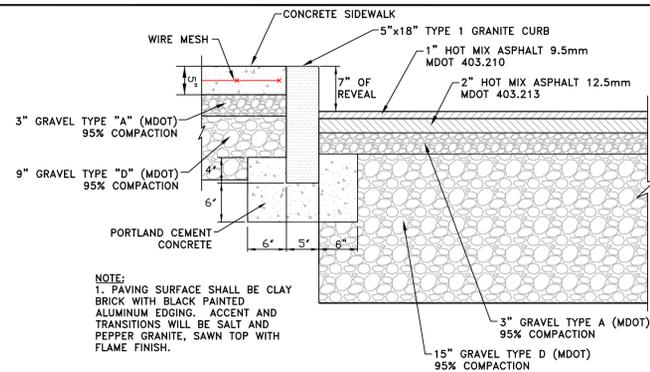
SLOPED GRANITE CURB DETAIL
NOT TO SCALE



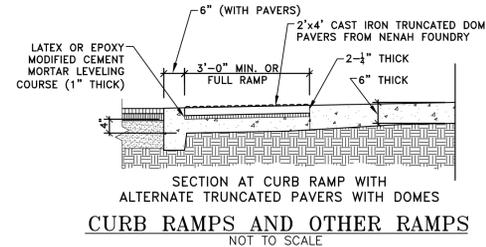
HANDICAP CURB RAMP DETAIL
NOT TO SCALE



HANDICAP CURB RAMP DETAIL II (FLARED)
NOT TO SCALE

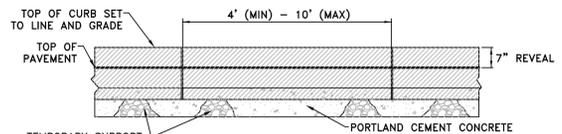


CONCRETE SIDEWALK & GRANITE CURB DETAIL
NOT TO SCALE

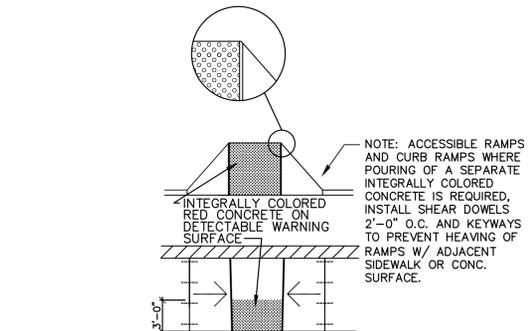


CURB RAMP AND OTHER RAMPS
NOT TO SCALE

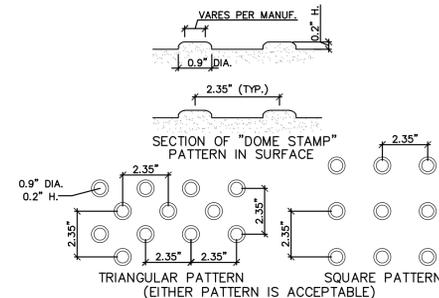
- NOTES:**
- CURBS SHALL BE SET TO LINE AND GRADE UPON TEMPORARY SUPPORT PADS.
 - AFTER INSPECTION AND APPROVAL BY THE CITY ENGINEER, THE CURBS SHALL BE BACKFILLED WITH PORTLAND CEMENT CONCRETE AND ALLOWED TO CURE.
 - ONCE THE PORTLAND CEMENT CONCRETE SHALL CONSIST OF 2500 PSI CONCRETE.
 - SPACING BETWEEN CURBS SHALL BE 1/4".
 - A STRIP OF GEOTEXTILE SHALL BE PLACED OVER THE CURB JOINT ON AT THE REAR OF THE CURB.



GRANITE CURB PROFILE
NOT TO SCALE



PLAN OF DETECTABLE WARNING SURFACE
NOT TO SCALE



PLAN OF "DOME STAMP" PATTERN IN SURFACE
NOT TO SCALE

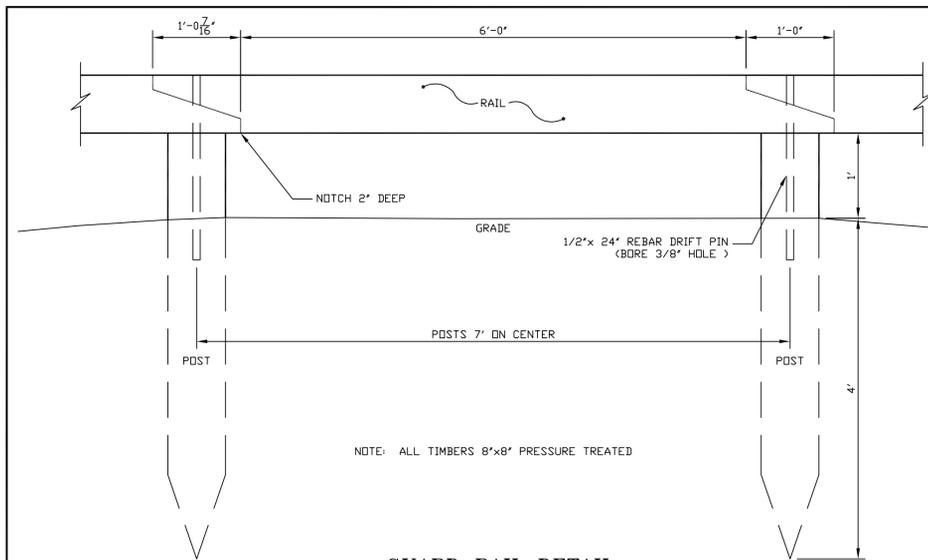
CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP (MID-WALK "IN-LINE" RAMPS ONLY NEED DETECTABLE WARNINGS AT WALK/PARKING TRANSITION). THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES. THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT) SEE ABOVE



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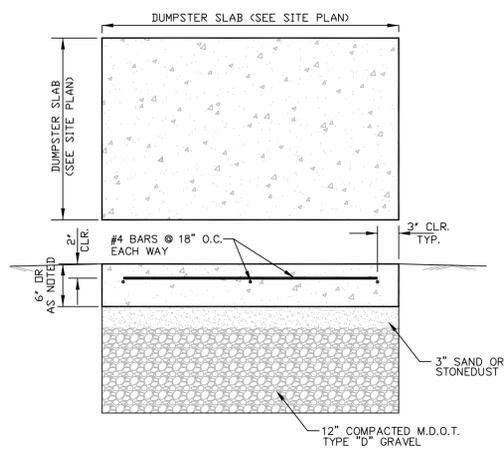
NO.	REVISIONS	DATE

CLIENT PROJECT: CONNECTED CREDIT UNION
CLIENT TITLE: SITE DETAILS III
SCALE: AS SHOWN
LOCATION: CIVIC CENTER DRIVE & GAYWALK STREET
TOWN: AUGUSTA
COUNTY: KENNEBEC
STATE: MAINE
DATE: JUNE 12, 2015
DRAWN BY: TCH
CHECKED BY: JEC
PROJ. NO.: 2015-025
C-4



NOTE: ALL TIMBERS 8"x8" PRESSURE TREATED

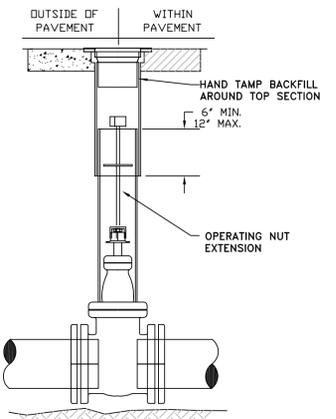
GUARD RAIL DETAIL
NOT TO SCALE



CONCRETE SPECIFICATION:

- 4000 P.S.I.
- 3/4" STONE
- 6% AIR ENTRAINMENT
- SLUMP = 3" ± 1"
- FINE BROOM FINISH

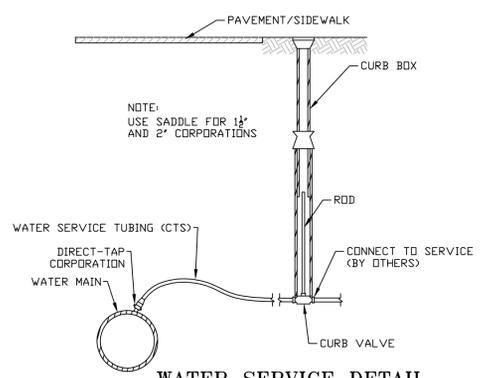
TYPICAL DUMPSTER SLAB DETAIL
NOT TO SCALE



NOTES:

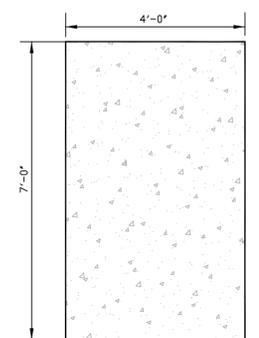
- 1) VALVE BOX NOT TO REST ON OPERATING ASSEMBLY.
- 2) A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WITH AN OPERATING NUT LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF THE VALVE BOX. THIS EXTENSION SHALL BE SUFFICIENT LENGTH TO ENSURE THAT ITS TOP IS WITHIN 4 FEET OF THE VALVE BOX LID.

GATE VALVE DETAIL
NOT TO SCALE



NOTE: USE SADDLE FOR 1 1/2" AND 2" CORPORATIONS

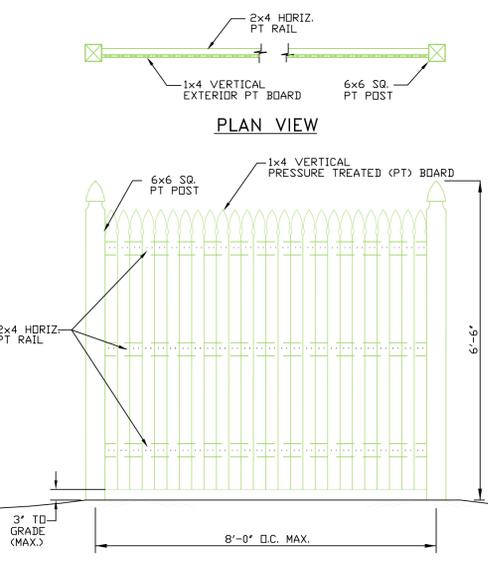
WATER SERVICE DETAIL
NOT TO SCALE



CONCRETE SPECIFICATION:

- 4000 P.S.I.
- 3/4" STONE
- 6% AIR ENTRAINMENT
- SLUMP = 3" ± 1"
- FINE BROOM FINISH

TYPICAL GENERATOR SLAB DETAIL
NOT TO SCALE



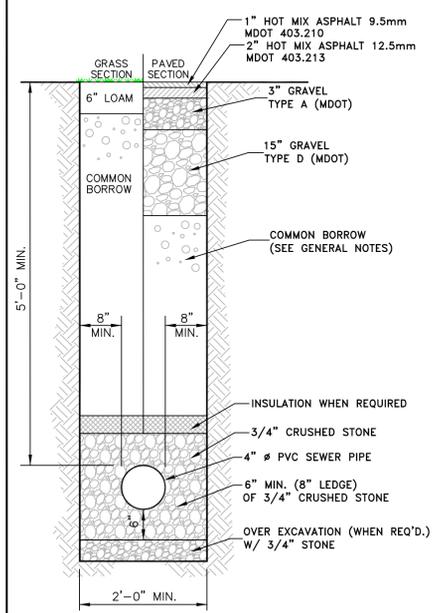
NOTES:

1. ALL POSTS TO BE SET 3'-6" INTO GROUND AND COMPACTED ALL AROUND.
2. ANY POST SET LESS THAN 3'-0" SHALL BE SET ON 10" DIAM. CONCRETE FILLED SODTUBE. USE SIMPSON STRONG-TIE POST BASE, AND SET BELOW GRADE TO HIDE CONCRETE & CONNECTOR.
3. POST SET ON LEDGE SHALL BE DRILLED AND PINNED. ANCHORING METHOD TO BE APPROVED BY SITE ENGINEER.
4. 2x4 PT RAILS SHALL HAVE DOVELED ENDS FOR POST CONNECTION.
5. ALL GATES TO MATCH FENCE.
6. OWNER TO SPECIFY PAINTING.

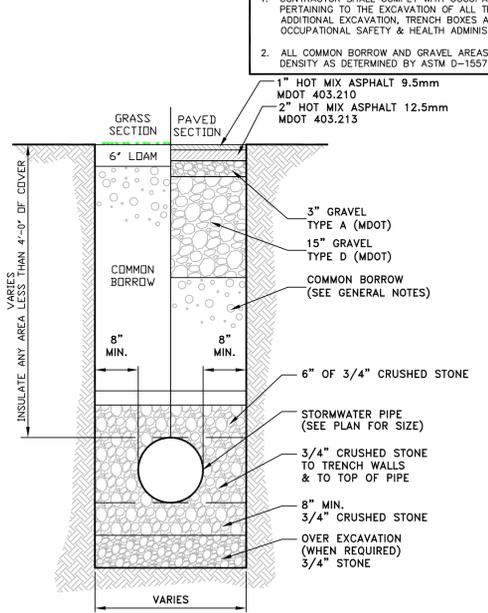
WOODEN STOCKADE FENCE DETAIL
NOT TO SCALE

TRENCH NOTES:

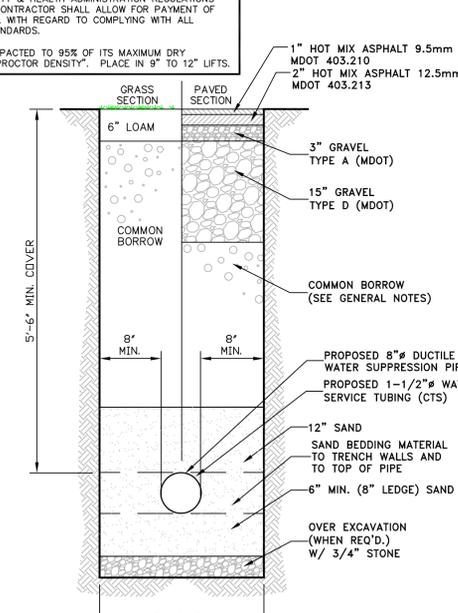
1. CONTRACTOR SHALL COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS PERTAINING TO THE EXCAVATION OF ALL TRENCHES. CONTRACTOR SHALL ALLOW FOR PAYMENT OF ADDITIONAL EXCAVATION, TRENCH BOXES AND BACKFILL WITH REGARD TO COMPLYING WITH ALL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.
2. ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.



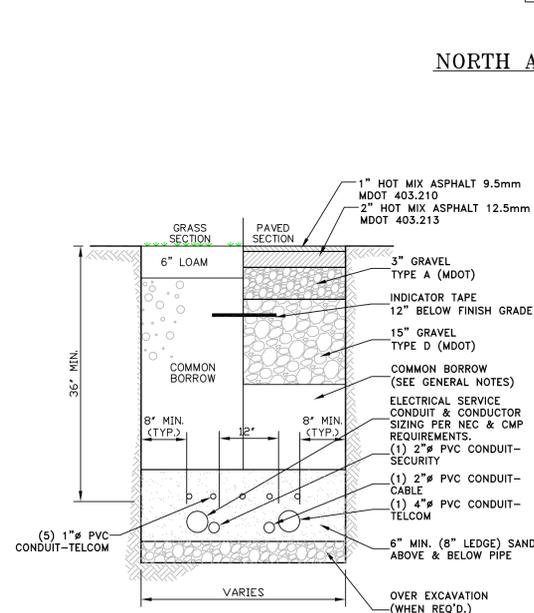
TYPICAL SANITARY TRENCH SECTION
NOT TO SCALE



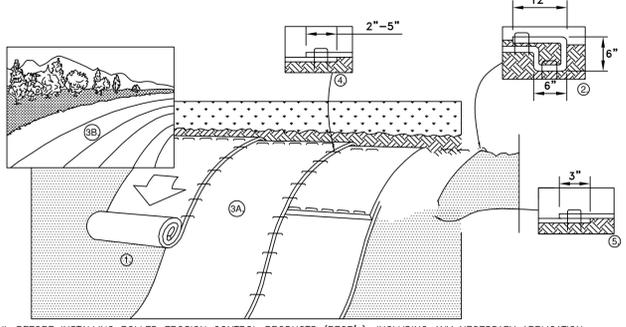
TYPICAL STORMWATER TRENCH SECTION
NOT TO SCALE



WATER SERVICE TRENCH SECTION
NOT TO SCALE



TYPICAL ELECTRICAL/SITE LIGHTING TRENCH SECTION
NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

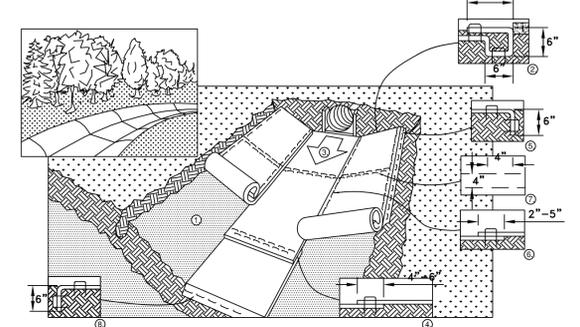
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.

5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 2" (5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
NOTE:
• IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

NORTH AMERICAN GREEN C350 TRM SLOPE INSTALLATION



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

3. ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.

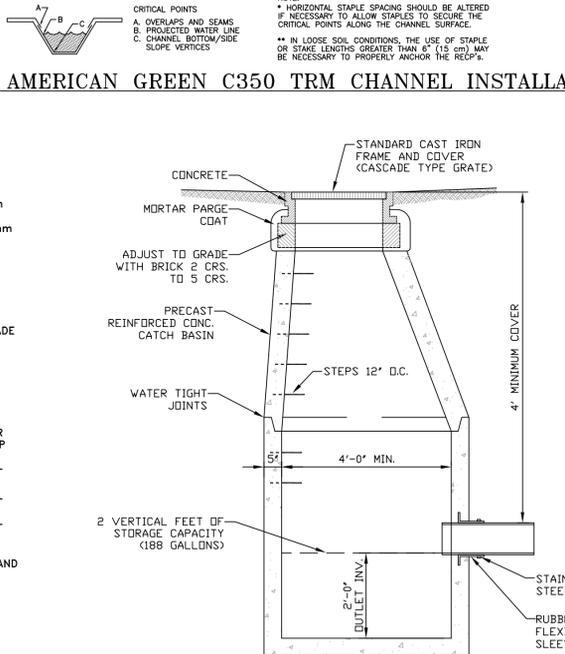
5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) (DEPENDENT ON RECP'S TYPE) AND INSTALLED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
NOTE:
• IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

NORTH AMERICAN GREEN C350 TRM CHANNEL INSTALLATION



PRECAST CATCH BASIN WITH ELBOW
NOT TO SCALE



JAMES E. COFFIN
PROFESSIONAL ENGINEER
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE
8500
James Coffin

NO.	REVISIONS	DATE

CLIENT PROJECT: CONNECTED CREDIT UNION
LOCATION: CIVIC CENTER DRIVE & GAYWALK STREET
TOWN: AUGUSTA
COUNTY: KENNEBEC
STATE: MAINE

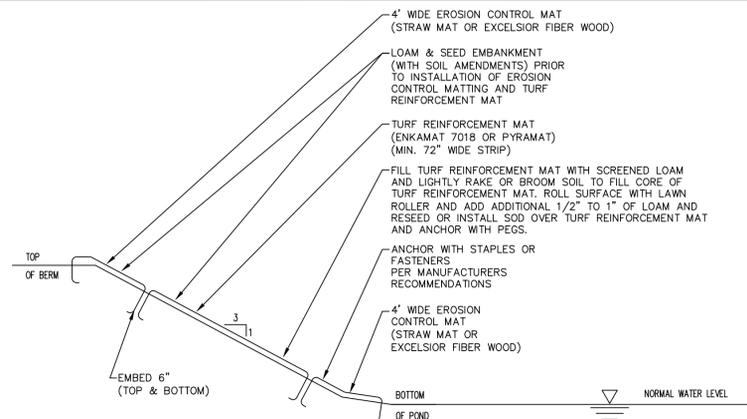
SCALE: AS SHOWN
DATE: JUNE 12, 2015

DRAWN BY: TCH
CHECKED BY: JEC

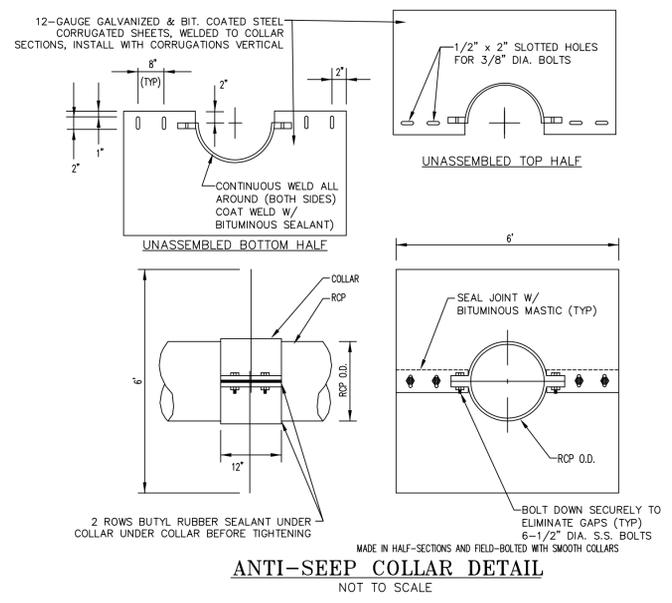
SHEET TITLE: SITE DETAILS IV

PROJ. NO.: 2015-025

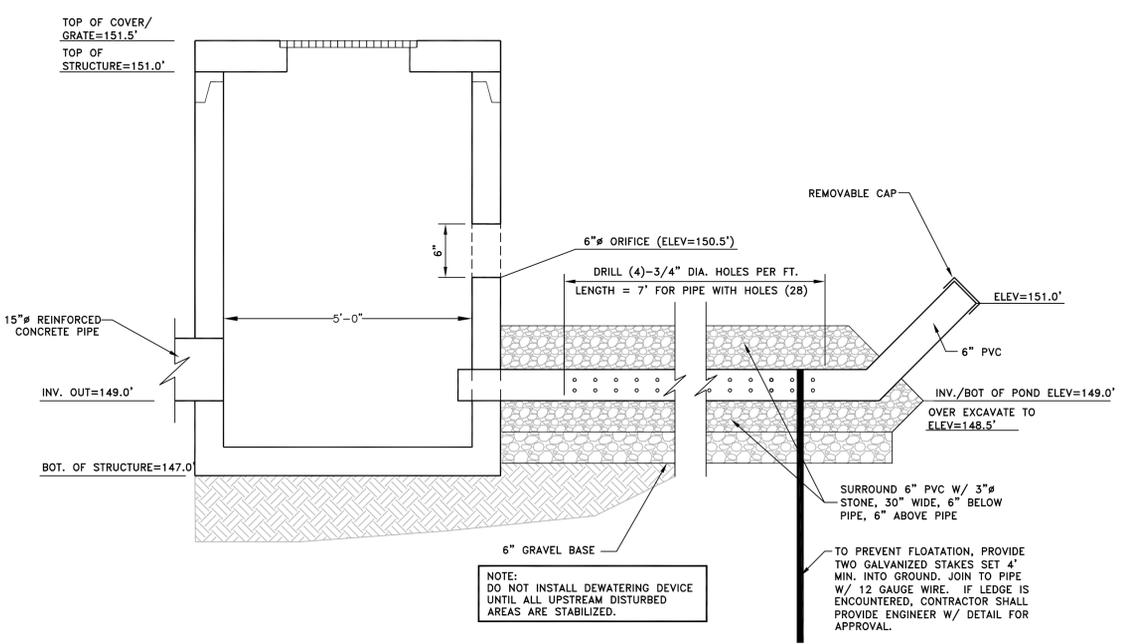
C-5



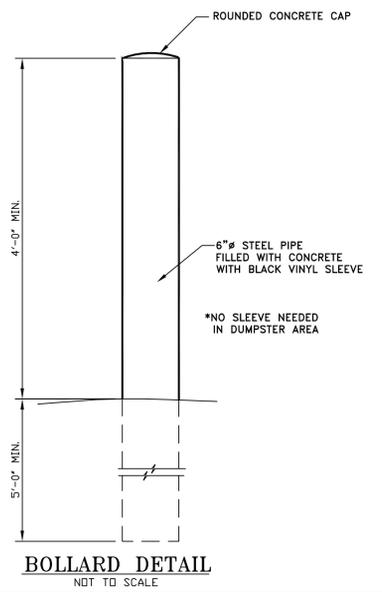
PROTECTIVE LINING AT POND FILL SLOPE (BOTH SIDES)
END SECTION
 NOT TO SCALE



ANTI-SEEP COLLAR DETAIL
 NOT TO SCALE



NOTE:
 DO NOT INSTALL DEWATERING DEVICE UNTIL ALL UPSTREAM DISTURBED AREAS ARE STABILIZED.



BOLLARD DETAIL
 NOT TO SCALE

CONSTRUCTION OVERSIGHT NOTES:

The applicant will retain the services of a professional engineer to inspect the construction and stabilization of all stormwater management structures to be built as part of the project. If necessary, the inspecting engineer will interpret the construction plans for the contractor. Once all stormwater management structures are constructed and stabilized, the inspecting engineer will notify the department in writing within 30 days to state that the structures have been completed. Accompanying the engineer's notification must be a copy of the test results for any soil fill, aggregate, or mulch materials used in the construction of the stormwater management structures and a log of the engineer's inspections giving the date of each inspection, the time of each inspection, and the items inspected on each visit.

UNDERDRAINED FILTER BASINS

Construction Oversight: At a minimum, the professional engineer's inspection will occur after foundation soil preparation but prior to placement of the embankment fill, after the underdrain pipes are installed but not backfilled, after the pipe bedding fill is placed but prior to the placement of the filter media, after the filter media has been placed and the filter surface seeded.

Testing and Submittals: All the soil, mulch, and aggregate used for the construction of the vegetated underdrained soil filter basin must be confirmed as suitable by testing. The contractor shall identify the source of each material and obtain samples for each material for testing. All testing must be done by a certified laboratory. All results of field and laboratory testing shall be submitted to the project engineer for confirmation. It shall be the contractor's responsibility to ensure completion of the following sampling and testing before the fill or aggregate is placed as part of the vegetated underdrained soil filter basin's construction.

- Obtain samples of the sandy soil, topsoil, and wood fiber mulch (or other approved organic source) to be blended to make the filter media. Samples must be a composite of three different locations (grabs) from the stockpile or pit face. The sample size required will be determined by the testing laboratory.
- Perform analyses of the blended filter media showing it has 8% to 12% by weight passing the #200 sieve (as determined by a sieve analysis), a clay content of less than 2% (as determined hydrometer grain size analysis), and has an organic matter content of no less than 10% by dry weight.
- Obtain a sample of the gravel fill to be used for the coarse gravel transition zone above the crushed stone pipe bedding. The sample must be a composite of three different locations (grabs) from the stockpile or pit face. The sample size required will be determined by the testing laboratory.
- Perform a sieve analysis conforming to ASTM C136 (Standard Test Method for Sieve Analysis of Fine and Course Aggregates 1996A) of the gravel to be used for the underdrain pipe bedding. The gravel fill must conform to MEDOT specification 703.22 Underdrain Type B.

CONSTRUCTION DEWATERING NOTES:

SPECIFICATIONS:

Dewatering excavated areas must be in two distinct phases. The removal of the collected water within the excavation and the treatment of the collected water.

Physical Dewatering:

The removal of water from the excavated area can be accomplished by numerous methods. The most common of these are: gravity drain through daylight channels, mechanical pumping, siphoning, and using the bucket of construction equipment to scoop and dump water from the excavation.

- Channels dug for discharging water from the excavated area need to be stable. If flow velocities cause erosion within the channel then a ditch lining should be used.
- Bucketed water should be discharged in a stable manner to the sediment removal area. A splash pad of riprap underlain with geotextile may be necessary to prevent scouring of the soil in the basin.
- Dewatering in periods of intense, heavy rain, when the infiltrative capacity of the soil is exceeded, should be avoided.

Sediment Removal:

Methods of settling or filtering sediment are listed below.

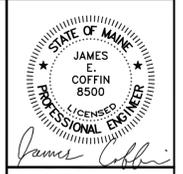
- Flow to the sediment removal structure may not exceed the sediment removal structure's capacity to settle and filter flow or the structure's volume capacity.
- Sediment Removal Basins should discharge wherever possible to a well-vegetated buffer through sheet flow and should maximize the distance to the nearest water resources and minimizing the slope of the buffer area.
- Various basin designs have been proposed in past projects.
- An enclosure of Jersey Barriers lined with a large piece of silt tape geotextile.
- A temporary enclosure constructed with hay bales, silt fence, or both. Erosion control mix also may be incorporated with silt fence or hay bales.
- Direct discharge of lightly sediment bearing water may be able to go directly into wellbuffered areas with 0-2% slope as long as a method of spreading flow into sheet flow is available.
- Discharge to a manufactured / pre-made structure specifically designed for sediment removal, like a Silt Sak, Silt Bag, or other similar product.
- Concrete or steel settling chambered systems for sediment removal.
- Excavated or bermed sedimentation ponds or structures. Side slopes no greater than 2 to 1, or with a combined interior and exterior slope of no greater than 5 to 1. See the SEDIMENT TRAP BMP section.

Installation Requirements:

- For trench excavation, limit the trench length to 500 feet and place the excavated material on the up gradient side of the trench.
- Install diversion ditches or berms to minimize the amount of clean stormwater runoff allowed into the excavated area.
- Never discharge to areas that are bare or newly vegetated.

MAINTENANCE

During the active dewatering process, inspection of the dewatering facility should be reviewed frequently. Special attention should be paid to the buffer area for any sign of erosion and concentration of flow that may compromise the buffer area. Observe where possible the visual quality of the effluent and determine if additional treatment can be provided.



NO.	REVISIONS	DATE

SITE DETAILS V

CLIENT PROJECT: **CONNECTED CREDIT UNION**

SCALE: **AS SHOWN**

LOCATION: **CIVIC CENTER DRIVE & GAYWALK STREET**

TOWN: **AUGUSTA** COUNTY: **KENNEBEC** STATE: **MAINE**

DATE: **JUNE 12, 2015**

DRAWN BY: **TCH**

CHECKED BY: **JEC**

PROJ. NO. **2015-025**

C-6



FRONT ELEVATION
SCALE 1/4" = 1'-0"



SIDE ELEVATION
SCALE 1/4" = 1'-0"



E.S. COFFIN
ENGINEERING & SURVEYING
432 Com. Road P.O. Box 4687 Augusta, Maine 04310
Ph. (207) 623-9475 Fax (207) 623-9016 Toll Free 1-800-244-9475

NO.	DATE	REVISIONS

CLIENT & PROJECT	ELEVATIONS
CONNECTED CREDIT UNION PROPOSED AUGUSTA BRANCH	
LOCATION: CIVIC CENTER DRIVE	SCALE: 1/4" = 1'-0"
TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE	DATE: JUNE 12, 2015
PROJ. NO. 2015-025	DRAWN BY: JPK CHECKED BY: BEM

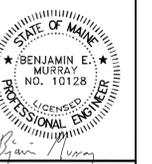
A-5



REAR ELEVATION
SCALE 1/4" = 1'-0"



SIDE ELEVATION
SCALE 1/4" = 1'-0"



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NO.	DATE	REVISIONS

CLIENT & PROJECT CONNECTED CREDIT UNION PROPOSED AUGUSTA BRANCH	SHEET TITLE: ELEVATIONS	DRAWN BY: JPK
		CHECKED BY: BEM
LOCATION: CIVIC CENTER DRIVE	SCALE: 1/4" = 1'-0"	DATE: JUNE 12, 2015
TOWN: AUGUSTA	COUNTY: KENNEBEC	STATE: MAINE

PROJ. NO. 2015-025

A-6