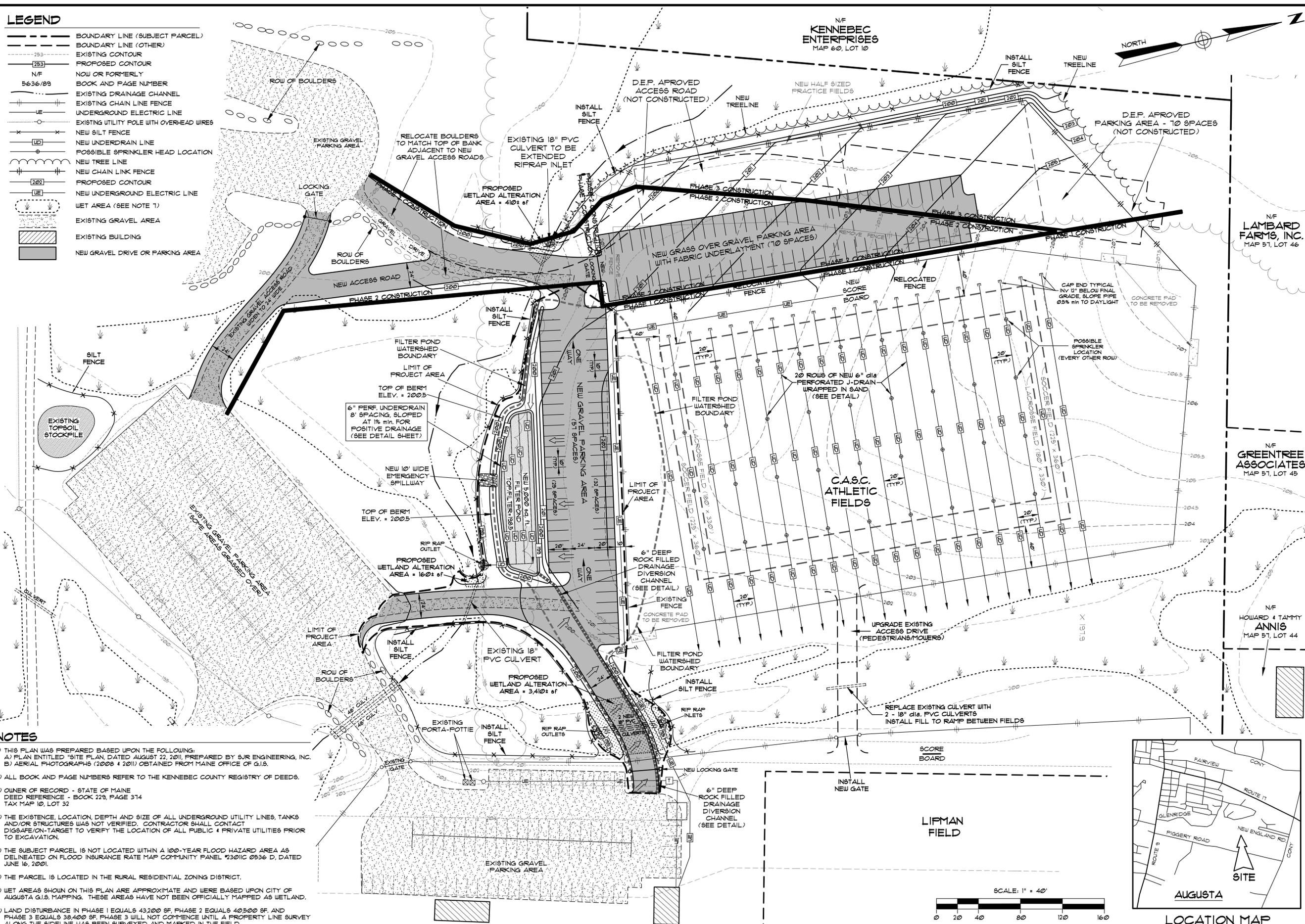


LEGEND

- BOUNDARY LINE (SUBJECT PARCEL)
- BOUNDARY LINE (OTHER)
- - - - - EXISTING CONTOUR
- PROPOSED CONTOUR
- N/F NOW OR FORMERLY
- 5636/03 BOOK AND PAGE NUMBER
- EXISTING DRAINAGE CHANNEL
- EXISTING CHAIN LINE FENCE
- UNDERGROUND ELECTRIC LINE
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- NEW SILT FENCE
- NEW UNDERDRAIN LINE
- POSSIBLE SPRINKLER HEAD LOCATION
- NEW TREE LINE
- NEW CHAIN LINK FENCE
- PROPOSED CONTOUR
- NEW UNDERGROUND ELECTRIC LINE
- WET AREA (SEE NOTE 1)
- EXISTING GRAVEL AREA
- EXISTING BUILDING
- NEW GRAVEL DRIVE OR PARKING AREA



NOTES

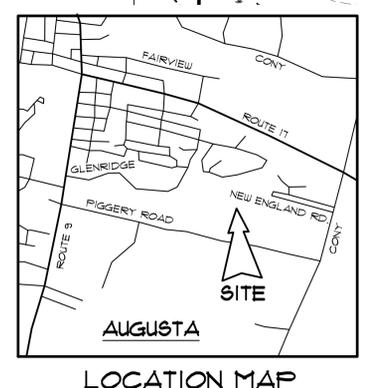
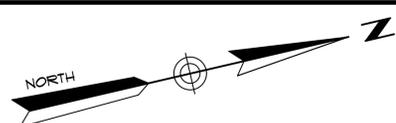
- 1) THIS PLAN WAS PREPARED BASED UPON THE FOLLOWING:
 A) PLAN ENTITLED "SITE PLAN, DATED AUGUST 22, 2011, PREPARED BY SJR ENGINEERING, INC.
 B) AERIAL PHOTOGRAPHS (2008 & 2011) OBTAINED FROM MAINE OFFICE OF G.I.S.
- 2) ALL BOOK AND PAGE NUMBERS REFER TO THE KENNEBEC COUNTY REGISTRY OF DEEDS.
- 3) OWNER OF RECORD - STATE OF MAINE
 DEED REFERENCE - BOOK 223, PAGE 314
 TAX MAP 10, LOT 32
- 4) THE EXISTENCE, LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITY LINES, TANKS AND/OR STRUCTURES WAS NOT VERIFIED. CONTRACTOR SHALL CONTACT DIGSAFE/ON-TARGET TO VERIFY THE LOCATION OF ALL PUBLIC & PRIVATE UTILITIES PRIOR TO EXCAVATION.
- 5) THE SUBJECT PARCEL IS NOT LOCATED WITHIN A 100-YEAR FLOOD HAZARD AREA AS DELINEATED ON FLOOD INSURANCE RATE MAP COMMUNITY PANEL #3301C 0536 D, DATED JUNE 16, 2001.
- 6) THE PARCEL IS LOCATED IN THE RURAL RESIDENTIAL ZONING DISTRICT.
- 7) WET AREAS SHOWN ON THIS PLAN ARE APPROXIMATE AND WERE BASED UPON CITY OF AUGUSTA G.I.S. MAPPING. THESE AREAS HAVE NOT BEEN OFFICIALLY MAPPED AS WETLAND.
- 8) LAND DISTURBANCE IN PHASE 1 EQUALS 43,200 SF, PHASE 2 EQUALS 40,500 SF, AND PHASE 3 EQUALS 38,400 SF. PHASE 3 WILL NOT COMMENCE UNTIL A PROPERTY LINE SURVEY ALONG THE SIDELINE HAS BEEN SURVEYED AND MARKED IN THE FIELD.

N/F
KENNEBEC ENTERPRISES
 MAP 60, LOT 10

N/F
LAMBARD FARMS, INC.
 MAP 51, LOT 46

N/F
GREENTREE ASSOCIATES
 MAP 51, LOT 43

N/F
HOWARD & TAMMY ANNIS
 MAP 51, LOT 44



NO.	DATE	REVISIONS PER REVIEW COMMENTS
4	8-20-13	REVISIONS PER REVIEW COMMENTS
3	02-18-13	ADD PHASE LINES, NOTES
2	01-22-13	CHANGES PER CLIENT REVIEW
1	12-21-12	REVISIONS TO UNDERDRAIN SILT FENCE, CONC PADS, ETC.

REV. BY: DATE: CHANGES:

SJR ENGINEERING, INC.
 21 MATFLOWER ROAD
 AUGUSTA, MAINE 04330
 (207) 622-1616 Tel. 4 Fax
 steve@sje.org

**TOPOGRAPHIC SITE PLAN
 LACROSSE FIELD IMPROVEMENTS**
 PREPARED FOR
CAPITOL AREA RECREATION ASSOC.
 AUGUSTA, MAINE

DATE	PROJECT
DEC. 2012	SJR
DRAWN BY	SCALE
PLANIT	1" = 40'

SHEET 1

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SJR ENGINEERING, INC.

EROSION AND SEDIMENT CONTROL PRACTICES

This plan has been developed to provide a strategy for dealing with soil erosion during and after the construction of access roads, driveways, utilities and athletic fields at the CARA athletic fields construction site. This plan is based on the standards and specifications for erosion prevention as contained in the current edition of "Best Management Practices" by the Soil and Water Conservation District and adopted by the Maine DEP.

Construction is expected to begin Fall of 2013 after obtaining necessary permits.

The principal erosion control devices will be silt fences, riprap, mulch, and seed to protect existing ground outside of the construction area. Steep slopes shall be dressed with biodegradable erosion control netting. Other features such as grassed waterways and landscaping will be constructed as permanent erosion controls.

STRUCTURAL MEASURES

Silt fencing shall be installed along the contour and perpendicular to the predominant slope of the land just beyond the downslope limits of clearing and grubbing and/or just above any adjacent property line and streams where indicated on the plan to protect against construction related erosion. Installation shall be as shown on the plans or approved equal.

Riprap materials shall be placed as shown in all inlets/outlets of pipe culverts. These aprons will prevent scour at stormwater outlets and minimize the potential for downstream erosion by reducing the velocity of concentrated stormwater flow. Average design size stone, D₅₀, shall be as called out in the detail on the plans. Largest size of stone in the riprap to be 15 times the D₅₀ size.

Protective mats on steep slopes will aid in controlling erosion on critical areas during the establishment period of vegetation. Jute erosion control mats are shown on the plan.

Diversion ditches are to be created where indicated on plans to divert stormwater runoff away from unprotected or steep slopes to a stabilized outlet. Berms are to be a minimum of 1' deep and 5' wide. Grades of diversion berms are not to exceed 3% unless appropriate structural measures (riprap, paved flumes) are taken. Disturbed areas are to be stabilized immediately after construction.

VEGETATIVE MEASURES

Topsoil on site shall be stockpiled at a stable location on site and covered with anchored mulch for temporary erosion control.

If any disturbed area of soil will be left bare for more than two weeks, or if construction is to be completed in phases over an extended duration, temporary seeding and mulching shall commence immediately following initial final grading of site. In sensitive areas (within 25' of wetlands or streams) temporary mulch must be applied within 7 days or prior to any storm event on all disturbed surfaces. It shall be maintained and reseeded as necessary to insure good vegetative cover for the entire duration of construction. Seed will be selected from the following table, according to the time of the year.

TEMPORARY SEED MIXTURE

Seed	lbs/acre	lbs/1000 sq ft	Recommended Seeding Date
Winter Rye	12	2.6	8/15 - 10/1
Oats or Annual Ryegrass	80	18	4/1 - 7/1
Ryegrass	40	9.0	8/15 - 9/15
Sudangrass	40	9.0	5/15 - 8/15
Perennial Ryegrass	40	9.0	8/15 - 9/15
Temporary mulch with or without dormant seeding			Winter Mulch Rate 10/1 - 4/1

PERMANENT SEED MIXTURE

Mulch will be applied with seeding according to mulch table. If it is not possible to seed 45 days or more prior to frost, then dormant seeding and anchored mulch shall be applied.

Permanent seedings of grass cover shall be applied to all disturbed areas. All surface water control measures and final final grading in the vicinity should be completed. Ground preparation shall include tilling to a minimum 3" depth of fine but friable soil free of clods or stones. Permanent seed shall be selected according to its final destination. (See permanent seed mixture table).

All seeding will require mulch. Mulch provides several benefits: conserves moisture, prevents surface compaction, improves water quality, reduces runoff and erosion control needs, and helps establish plant cover. Mulch shall be applied according to the following tables:

Mixture	Application Rate	
	Parks & Lawns lbs/1000 sq ft	Roadside Areas, ditches, basins lbs/1000 sq ft
Kentucky Bluegrass	46	46
Cresping Red Fescue	46	46
Perennial Ryegrass	11	46
Redtop		
Tall Fescue		
Total Seed Rate	103	191

Notes:

The contractor may wish to final seed from 10/1 to 1/1 with the same soil preparations, seeding mixes (doubling the seed rate) and mulching, but it may result in winter kill. Vegetation must be inspected and reseeded as necessary in the following spring to assure good vegetative cover.

No seeding shall be permitted on the snow.

Mulch shall be applied after all seed applications.

Permanent seedings should be made 45 days or more prior to the first killing frost or as a dormant seeding after the first killing frost.

MAINTENANCE

During the period of construction and/or until long term vegetation is established.

Seeded areas will be fertilized and reseeded as necessary to insure 75% vegetative establishment.

At a minimum, the hay bale/silt fence barriers shall be inspected and repaired once a week and immediately following all significant rainfall or snow melt. Sediment trapped behind these barriers shall be excavated when it reaches a depth of 6 inches and regraded onto the site.

Diversion ditches and swales will be checked weekly and repaired when necessary until adequate vegetation is established.

The owner and contractor shall be responsible for the construction and maintenance of all proposed temporary and permanent erosion control measures including vegetation. The contractor shall install or construct all required improvements prior to the start of construction. The contractor shall incorporate all other site improvements, restrictions, construction limits, drainage improvements, natural vegetative buffers, proposed landscaping, etc. The contractor must obtain a complete set of plans, reports and documents pertaining to the project before beginning construction.

All temporary erosion control devices shall be removed from the site by the contractor after construction is complete and the site is permanently stabilized.

WINTER CONSTRUCTION (when applicable)

The winter construction period is from November 1 through April 15. If the construction site is not stabilized with pavement, a road gravel base, 75% mature vegetation cover or riprap by November 15, then the site needs to be protected with over-winter stabilization. An area considered open is any area not stabilized with pavement, vegetation, mulching, erosion control mats, riprap or gravel base on a road, winter excavation and shoring work shall be completed such that no more than 1 acre of the site is without stabilization at any one time. Limit the exposed area to those areas in which work is expected to be undertaken during the preceding 15 days and that can be mulched in one day prior to any snow event.

All areas shall be considered to be denuded until the subbase gravel is installed in roadway areas or the areas of future loan and seed have been loaned, seeded and mulched. Hay and straw mulch rate shall be a minimum of 150 lbs/1000 sq ft. (3 tons/acre) and shall be properly anchored.

The contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions.

Continuation of earthwork operations on additional areas shall not begin until the exposed soil surface on the area being worked has been stabilized. In order to minimize areas without erosion control protection.

SOIL STOCKPILES

Stockpiles of soil or subsoil will be mulched for over winter protection with hay or straw at twice the normal rate or at 150 lbs/1000 sq ft. (3 tons per acre) or with a four-inch (4") layer of woodchips erosion control mix. This will be done within 24 hours of stockpiling and re-established prior to any rainfall or snowfall. Any soil stockpile will not be placed (even covered with hay or straw) within 100 feet from any natural resources.

NATURAL RESOURCES PROTECTION

Any areas within 100 feet from any natural resources, if not stabilized with a minimum of 75% mature vegetation catch, shall be mulched by December 1 and anchored with plastic netting or protected with erosion control mats.

During winter construction, a double line of sediment barriers (i.e. silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area.

Projects crossing the natural resource shall be protected a minimum distance of 100 feet on either side from the resource. Existing projects not stabilized by December 1 shall be protected with the second line of sediment barrier to ensure functionality during the spring thaw and rains.

SEDIMENT BARRIERS

During frozen conditions, sediment barriers shall consist of erosion control filter berms as frozen soil prevents the proper installation of hay bales and sediment silt fences.

SEDIMENT BARRIERS

During frozen conditions, sediment barriers shall consist of erosion control filter berms as frozen soil prevents the proper installation of hay bales and sediment silt fences.

MULCHING

All areas shall be considered to be denuded until areas of future loan and seed have been loaned, seeded and mulched. Hay and straw mulch shall be applied at a rate of 150 lb. per 1000 square feet or 3 tons/acre (twice the normal accepted rate of 75-lbs/1000 sq. ft. or 1.5 tons/acre) and shall be properly anchored.

Mulch shall not be spread on top of snow. The snow will be removed down to a one-inch depth or less prior to application.

After each day of final grading, the area will be properly stabilized with anchored hay or straw or erosion control netting. An area shall be considered to have been stabilized when exposed surfaces have been either mulched with straw or hay at a rate of 150 lb. per 1000 square feet (3 tons/acre) and adequately anchored so that the ground surface is not visible through the mulch.

Between the dates of November 1 and April 15, all mulch shall be anchored by either peg line, silt netting, asphalt emulsion chemical, tracking into the surface or wood cellulose fiber. The mulch cover is sufficient when the ground surface is not visible. After November 1, mulch and anchoring of all bare soil shall occur at the end of each final grading work day.

MULCHING ON SLOPES AND DITCHES

Slopes shall not be left exposed for any extended time of work suspension unless fully mulched and anchored with peg and netting or with erosion control blankets. Mulching shall be applied at a rate of 230 lbs/1000 sq ft on all slopes greater than 8%.

Mulch netting shall be used to anchor mulch in all drainage ways with a slope greater than 3% for slopes exposed to direct winds and for all other slopes greater than 8%.

Erosion control blankets shall be used in lieu of mulch in all drainage ways with slopes 8% or greater. Erosion control mix can be used to substitute erosion control blankets on all slopes except ditches.

SEEDING

Between the dates of October 15 and April 1, loan or seed will 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 1 and the exposed area has been loaned and final graded 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 selected to be placed prior to the placement of mulch and fabric netting anchored with staples. If dormant seeding is used for the site, all disturbed areas shall receive 4" of loan and seed at an application rate of 500 lbs/1000 sq ft. All areas seeded during the winter will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 75% catch) shall be revegetated by removing the mulch and reseeded and mulching.

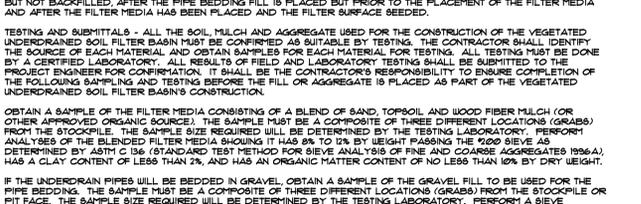
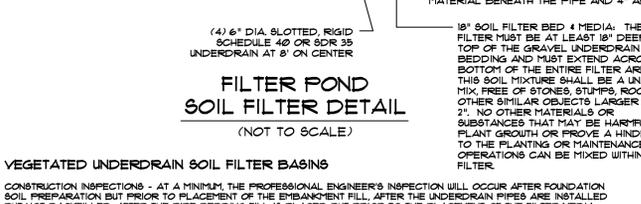
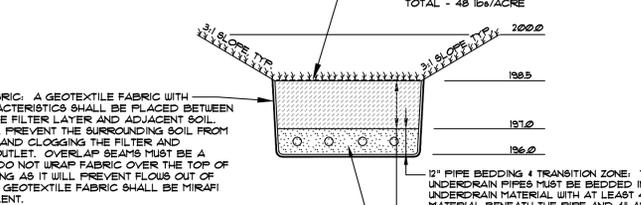
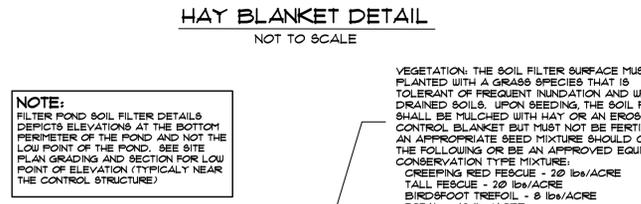
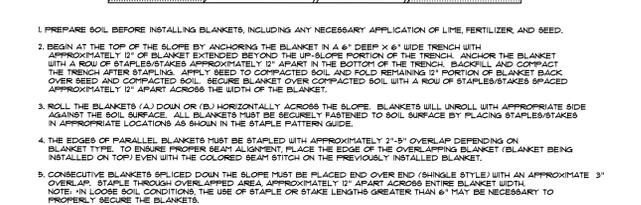
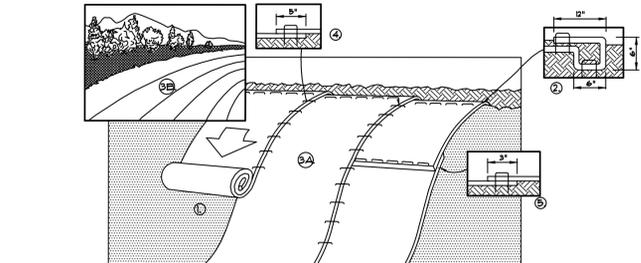
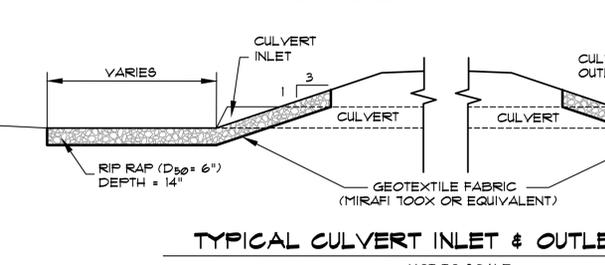
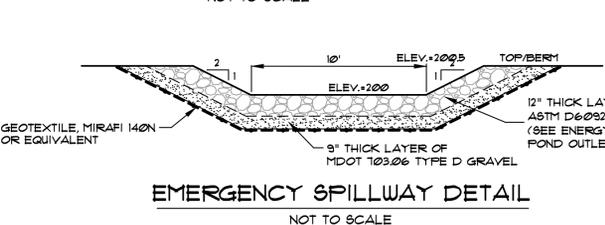
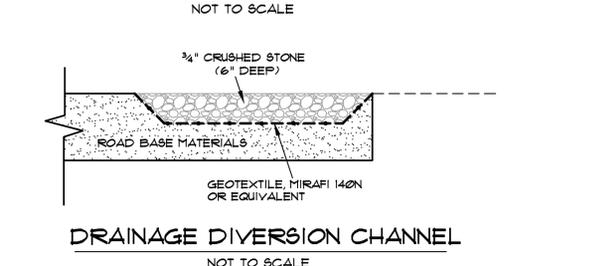
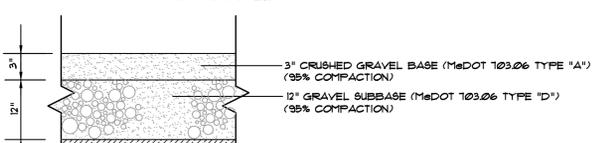
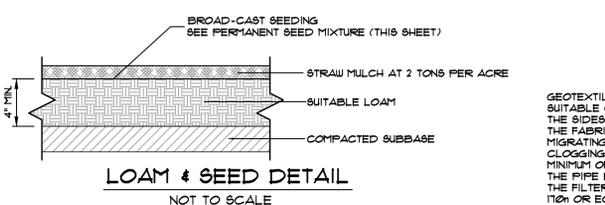
If dormant seeding is not used for the site, all disturbed areas shall be revegetated in the spring.

TRENCH DEWATERING & TEMP. STREAM DIVERSION

Water from construction trench dewatering or temporary stream diversion will pass first through a filter bag or secondary containment structure (e.g. hay bale lined pool) prior to discharge. The discharge site shall be selected to avoid flooding, icing, and sediment discharge to a protected resource. In no case shall the filter bag or containment structure be located within 100 feet of a protected natural resource.

INSPECTION AND MONITORING

Maintenance measures shall be applied as needed during the entire construction season. After each rainfall, snow storm or period of thawing and runoff, the site contractor shall perform a visual inspection of all installed erosion control measures and perform repairs as needed to insure their continuous function. Following the temporary and/or final seeding and mulching, the contractor shall inspect and repair any damages and unvegetated spots. Established vegetative cover means a minimum of 85 to 90% of area vegetated with vigorous growth.



GENERAL NOTES

- THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR OR APPURTENANT TO THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.
- THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS TO CONFORM TO ALL APPLICABLE OSHA STANDARDS, ANY REFERENCE TO A SPECIFICATION OR DESIGNATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.
- ALL UTILITY CONSTRUCTION SHALL CONFORM TO RESPECTIVE UTILITY STANDARDS.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY THE CITY OF AUGUSTA PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF AUGUSTA REQUIRED TO PERFORM ALL THE WORK (STREET OPENINGS, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO NOTIFY ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (1-800-228-4911) AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.
- THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY MAPS, MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES, WHEN THOSE SERVICES ARE TO BE LEFT IN PLACE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND BACKFILLING OPERATIONS. SHOULD ANY UNCHARTERED OR INCORRECTLY CHARTERED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN FEET (3M) OF ANY ELECTRIC LINE. IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENCROACHING ON THIS REQUIREMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, APPROVALS, AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS IN THE FIELD AND CONTACT THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIELD CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF THE BUILDING AREA (SITE PLANS SHOW APPROXIMATE BUILDING DIMENSIONS). ALL SITE DIMENSIONS ARE REFERENCED TO PROPERTY LINES, THE FACE OF CURBS, OUTSIDE FACE OF WALLS, OR EDGE OF PAVING UNLESS OTHERWISE NOTED.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL RESTORE ALL UTILITY STRUCTURES, FIELD UTILITIES, PAVEMENT, CURBS, SIDEWALKS, AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO AS GOOD AS BEFORE BEING DISTURBED AS DETERMINED BY CITY OF AUGUSTA CODE ENFORCEMENT OFFICIALS. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PRODUCT, MATERIALS AND PLANT SPECIFICATIONS TO THE OWNER AND DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW.
- THE OWNER MAY RETAIN AN INDEPENDENT TESTING LABORATORY FOR SOIL AND PAVEMENT TESTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH ANY RECONSTRUCTION AND RE-TESTING OF UNSATISFACTORY SOILS.
- ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DAMAGE TO HUMANS AND ANIMALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BENCH MARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.
- THE CONTRACTOR SHALL FURNISH ELECTRICAL, POWER, WATER, AND SANITARY FACILITIES FOR HIS EXCLUSIVE USE AT THE CONSTRUCTION SITE SHOULD THE CONTRACTOR DEEM THIS ESSENTIAL FOR THE PROPER PERFORMANCE OF THE CONTRACT.
- WORK MAY PROGRESS MONDAY THROUGH SATURDAY 7:00 AM TO 1:00 PM WORK AT OTHER TIMES MAY PROCEED UPON WRITTEN APPROVAL BY THE OWNER AND THE CITY OF AUGUSTA. THE CONTRACTOR SHALL BE REQUIRED TO CONFORM WITH ALL RULES AND REGULATIONS SET FORTH IN THE CITY OF AUGUSTA LAND USE REGULATION.
- THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REPLY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEE PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
- A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, DESIGNERS, CITY OFFICIALS AND CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION THERE SHALL BE WEEKLY PROGRESS MEETINGS WITH THE OWNER (ON SITE OR TELECONFERENCE) UNTIL PROJECT COMPLETION.
- PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.

GRADING NOTES

- THE CONTRACTOR SHALL PRESERVE EXISTING TREES WHERE POSSIBLE.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
- EMBANKMENT LAYERS SHALL START AT THE DEEPEST PORTION OF THE FILL AND AS PLACEMENT PROGRESSES, LAYERS SHALL BE PLACED APPROXIMATELY HORIZONTAL IN EIGHT INCH (8") LIFTS AT THE CLOSE OF EACH DAY'S WORK. THE EMBANKMENT SURFACE SHALL BE GRADED, CROWNED, AND SEEDED AGAINST THE GRADES AGAINST ANY EXCAVATION OF WATER EXCESS EXCAVATION IF ANY, SHALL BE REMOVED OFFSITE UNLESS CONTRACTOR OBTAINS WRITTEN APPROVAL FROM OWNER FOR STOCKPILING MATERIALS ON-SITE.
- THE CONTRACTOR SHALL COMPACT FILL UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 (PROCTOR TEST) OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- AGGREGATE FOR GRAVEL SURFACE COURSE SHALL MEET TYPE "A" M&DOT GRAVELS SECTION 103.06. AGGREGATE FOR GRAVEL BASE COURSE SHALL MEET TYPE "D" M&DOT GRAVELS SECTION 103.06. THE COMPLETED SURFACE OF EACH LAYER OF GRAVEL SHALL BE SHAPED AND MAINTAINED TO A TOLERANCE, ABOVE OR BELOW THE REQUIRED GRADE, OF ONE HALF INCH.
- ALL AREAS WHERE LOAM IS REQUIRED SHALL BE TRIMMED AND SHAPED TO THE REQUIRED GRADE AND SHAPED AND SHAPED AND SHAPED. ALL DEBRIS/STONES SHALL BE REMOVED FROM THE LOAM. LOAM SHALL BE SPREAD UNIFORMLY ON THE PREPARED AREAS TO A UNIFORM DEPTH OF FOUR INCHES (4"). ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. IT IS NECESSARY TO COMPACT THE TOPSOIL ENOUGH TO INSURE GOOD CONTACT WITH THE UNDERLYING SOIL, HOWEVER, UNDUE COMPACTION IS TO BE AVOIDED AS IT PREVENTS SEED GERMINATION.

CONSTRUCTION OVERSIGHT

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 A PART OF THIS PROJECT. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERRUPT THE CONSTRUCTION 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.

