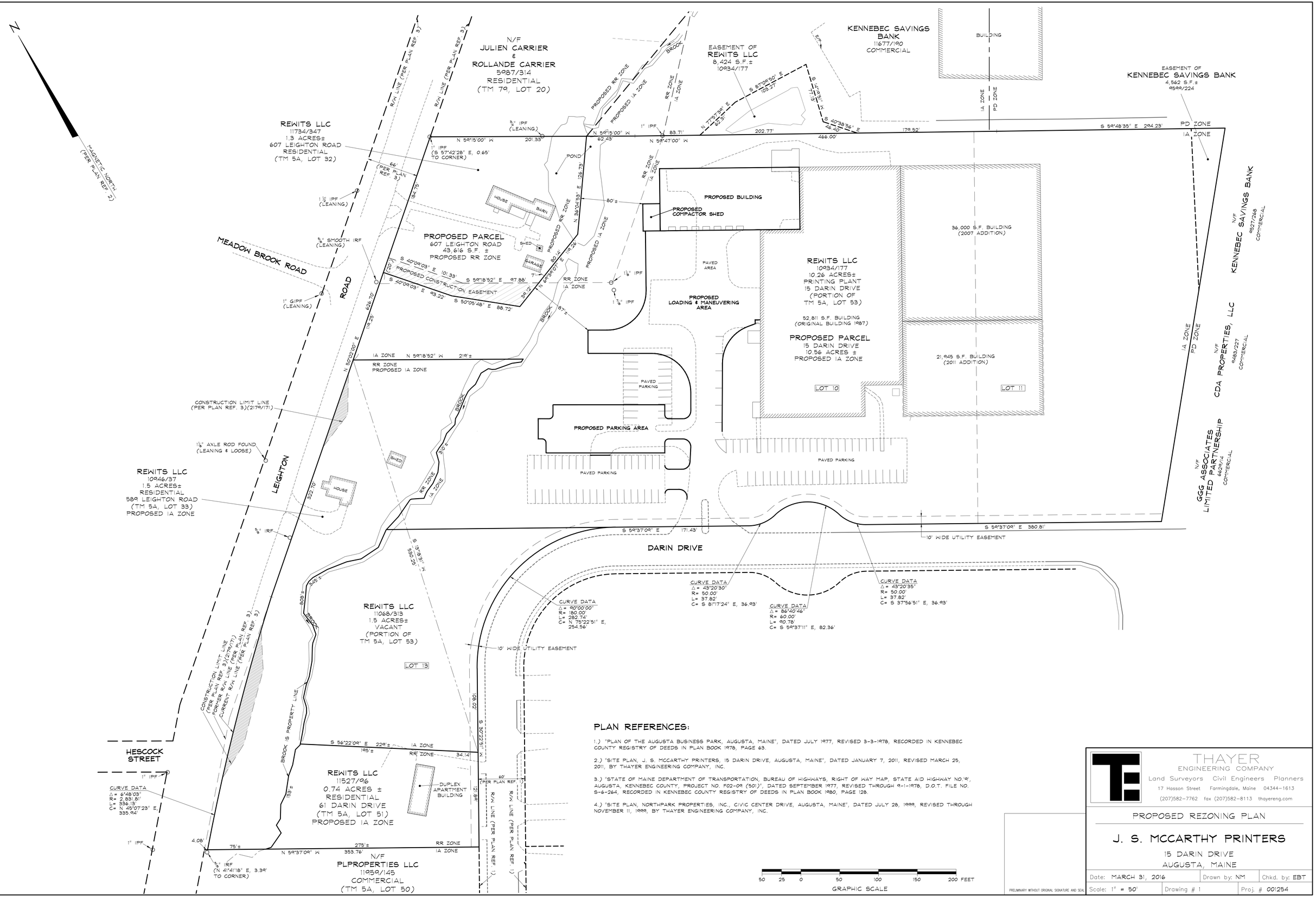


PLAN REFERENCES:

1.) "PLAN OF THE AUGUSTA BUSINESS PARK, AUGUSTA, MAINE", DATED JULY 1977, REVISED 3-3-1978, RECORDED IN KENNEBEC COUNTY REGISTRY OF DEEDS IN PLAN BOOK 1978, PAGE 63.

2.) "SITE PLAN, J. S. MCCARTHY PRINTERS, 15 DARIN DRIVE, AUGUSTA, MAINE", DATED JANUARY 7, 2011, REVISED MARCH 25, 2011, BY THAYER ENGINEERING COMPANY, INC.

3.) "STATE OF MAINE DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAYS, RIGHT OF WAY MAP, STATE AID HIGHWAY NO.'9', AUGUSTA, KENNEBEC COUNTY, PROJECT NO. F02-09 (50)", DATED SEPTEMBER 1977, REVISED THROUGH 9-1-1978, D.O.T. FILE NO. S-6-264, RECORDED IN KENNEBEC COUNTY REGISTRY OF DEEDS IN PLAN BOOK 1980, PAGE 128.

4.) "SITE PLAN, NORTHPARK PROPERTIES, INC., CIVIC CENTER DRIVE, AUGUSTA, MAINE", DATED JULY 28, 1999, REVISED THROUGH NOVEMBER 11, 1999, BY THAYER ENGINEERING COMPANY, INC.

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

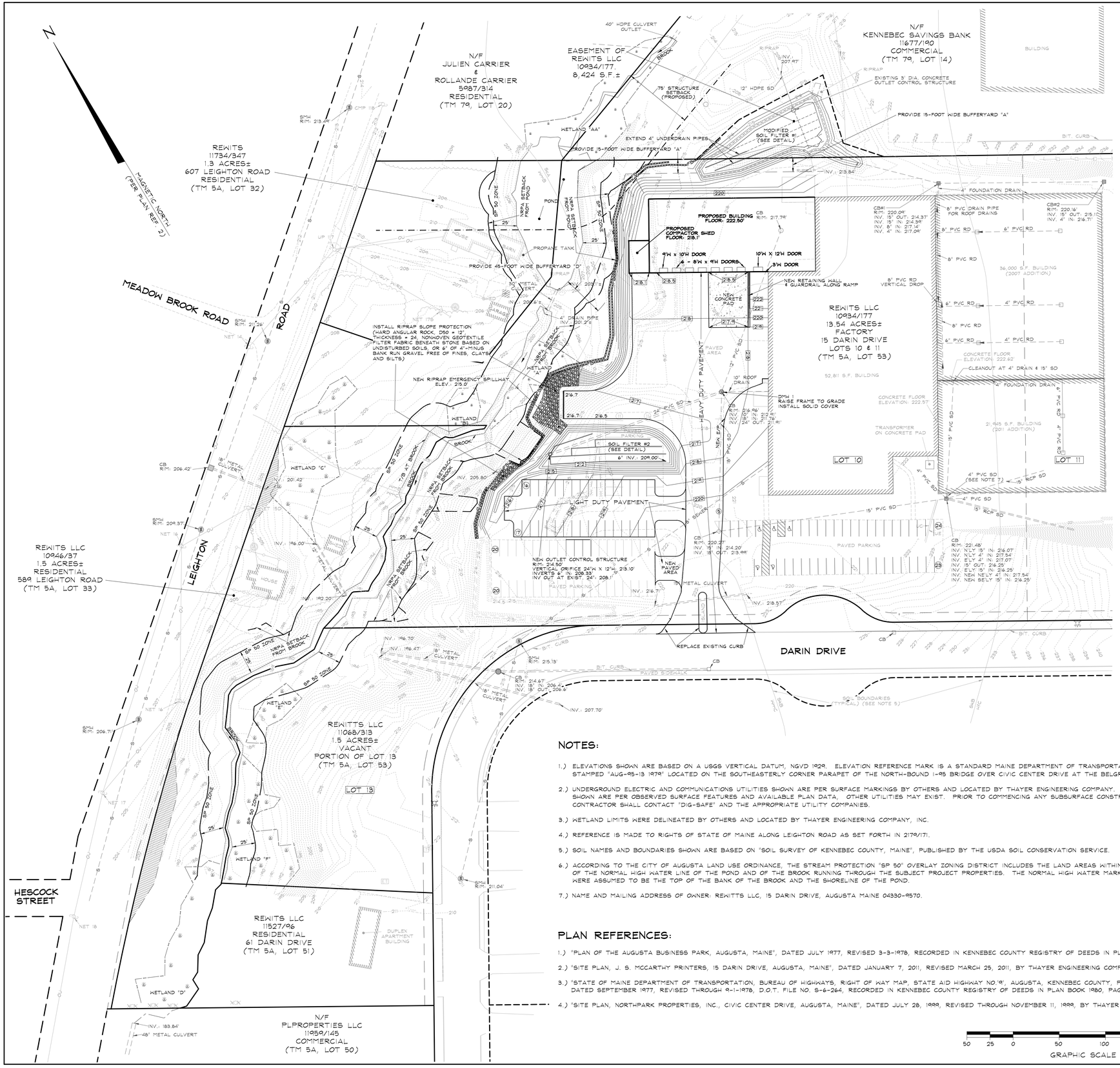
THAYER
ENGINEERING COMPANY
Land Surveyors Civil Engineers Planners
17 Hasson Street Farmingdale, Maine 04344-1613
(207)582-7762 fax (207)582-8113 thayereng.com

PROPOSED REZONING PLAN

J. S. MCCARTHY PRINTERS

15 DARIN DRIVE
AUGUSTA, MAINE

Date: MARCH 31, 2016	Drawn by: NM	Chkd. by: EBT
Scale: 1" = 50'	Drawing # 1	Proj. # 001254



LEGEND

N/F	NOW OR FORMERLY OF	UC	UNDERGROUND COMMUNICATIONS LINE (SEE NOTE 2)
3048/279	BOOK 3048, PAGE 279 KENNEBEC COUNTY REGISTRY OF DEEDS (FOR REFERENCE ONLY)	IA ZONE	BUSINESS AND INDUSTRIAL DISTRICT (SEE NOTE 6)
		PD ZONE	PLANNED DEVELOPMENT DISTRICT (SEE NOTE 6)
CB	CATCH BASIN	RR ZONE	RURAL RIVER DISTRICT (SEE NOTE 6)
PVC	POLYVINYL CHLORIDE	SP 50 ZONE	STREAM PROTECTION OVERLAY DISTRICT (SEE NOTE 6)
HDPE	HIGH DENSITY POLYETHYLENE	TM 79, LOT 5A	TAX MAP 79, LOT 5A (PER CITY OF AUGUSTA ASSESSOR'S RECORDS)
RCP	REINFORCED CONCRETE PIPE		
SD	STORM DRAIN	MDOT	MAINE DEPARTMENT OF TRANSPORTATION
S	SEWER	20+00	MDOT BASELINE STATION 20+00
LP	LENGTH OF PIPE	PT	POINT OF TANGENCY
SP	SLOPE OF PIPE	PC	POINT OF CURVATURE
INV.	INVERT	RD	ROOF DRAIN
NET 14	NEW ENGLAND TELEPHONE COMPANY UTILITY POLE NO. 14	BG	BELOW GRADE
			CHAIN LINK FENCE
UP 17	UTILITY POLE NO. 17	IPF	IRON PIPE FOUND
OU	OVERHEAD UTILITIES	GIPF	GALVANIZED IRON PIPE FOUND
	GUY ANCHOR	IRF	IRON ROD FOUND
E	ELECTRIC UTILITY BOX	GMF	GRANITE MONUMENT FOUND
T	TELEPHONE UTILITY BOX	X	FENCE POST WITH WIRE FENCE FOUND
ET	ELECTRIC TRANSFORMER ON PAD	R/W	RIGHT-OF-WAY
W	WELL	△	CENTRAL ANGLE OF CURVE
S.F.	SQUARE FEET	R	RADIUS OF CURVE
±	MORE OR LESS	L	LENGTH OF CURVE
240	EXISTING CONTOUR, ELEVATION = 240' (SEE NOTE 1)	C	CHORD OF CURVE
		T/B	TOP OF BANK
E/P	EDGE OF PAVEMENT	HfC	HARTLAND VERY FINE SANDY LOAM, 3 TO 8% SLOPES (SEE NOTE 5)
E/G	EDGE OF GRAVEL	ScA	SCANTIC SILT LOAM (SEE NOTE 5)
LOT 10	LOT 10, PER PLAN REFERENCE 1	SkB	SCIO VERY FINE SANDY LOAM, 3 TO 8% SLOPES (SEE NOTE 5)
	HYDRANT	WmB	WINDSOR LOAMY SAND, 3 TO 8% SLOPES (SEE NOTE 5)
S	SEWER MANHOLE	WmC	WINDSOR LOAMY SAND, 8 TO 15% SLOPES (SEE NOTE 5)
	LIGHT POLE	* * *	WETLAND (SEE NOTE 3)
BIT.	BITUMINOUS	NRPA	NATURAL RESOURCES PROTECTION ACT
UE	UNDERGROUND ELECTRIC LINE (SEE NOTE 2)	200	PROPOSED CONTOUR LINE, ELEV. 200 FEET (SEE NOTE 1)
		FB	PROPOSED FILTER BARRIER
		LP	LENGTH OF PIPE
		SP	SLOPE OF PIPE

NOTES:

1.) ELEVATIONS SHOWN ARE BASED ON A USGS VERTICAL DATUM, NGVD 1929. ELEVATION REFERENCE MARK IS A STANDARD MAINE DEPARTMENT OF TRANSPORTATION BRASS DISK STAMPED "AUG-95-13 1979" LOCATED ON THE SOUTHEASTERLY CORNER PARAPET OF THE NORTH-BOUND I-95 BRIDGE OVER CIVIC CENTER DRIVE AT THE BELGRADE EXIT. ELEVATION = 250.592'.

2.) UNDERGROUND ELECTRIC AND COMMUNICATIONS UTILITIES SHOWN ARE PER SURFACE MARKINGS BY OTHERS AND LOCATED BY THAYER ENGINEERING COMPANY. OTHER UNDERGROUND UTILITIES SHOWN ARE PER OBSERVED SURFACE FEATURES AND AVAILABLE PLAN DATA, OTHER UTILITIES MAY EXIST. PRIOR TO COMMENCING ANY SUBSURFACE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONTACT "DIG-SAFE" AND THE APPROPRIATE UTILITY COMPANIES.

3.) WETLAND LIMITS WERE DELINEATED BY OTHERS AND LOCATED BY THAYER ENGINEERING COMPANY, INC.

4.) REFERENCE IS MADE TO RIGHTS OF STATE OF MAINE ALONG LEIGHTON ROAD AS SET FORTH IN 2179/171.

5.) SOIL NAMES AND BOUNDARIES SHOWN ARE BASED ON "SOIL SURVEY OF KENNEBEC COUNTY, MAINE", PUBLISHED BY THE USDA SOIL CONSERVATION SERVICE.

6.) ACCORDING TO THE CITY OF AUGUSTA LAND USE ORDINANCE, THE STREAM PROTECTION "SP 50" OVERLAY ZONING DISTRICT INCLUDES THE LAND AREAS WITHIN 25 FEET HORIZONTAL DISTANCE OF THE NORMAL HIGH WATER LINE OF THE POND AND OF THE BROOK RUNNING THROUGH THE SUBJECT PROJECT PROPERTIES. THE NORMAL HIGH WATER MARK OF THE POND AND THE BROOK WERE ASSUMED TO BE THE TOP OF THE BANK OF THE BROOK AND THE SHORELINE OF THE POND.

7.) NAME AND MAILING ADDRESS OF OWNER: REWITTS LLC, 15 DARIN DRIVE, AUGUSTA MAINE 04330-9570.

PLAN REFERENCES:

1.) "PLAN OF THE AUGUSTA BUSINESS PARK, AUGUSTA, MAINE", DATED JULY 1977, REVISED 3-3-1978, RECORDED IN KENNEBEC COUNTY REGISTRY OF DEEDS IN PLAN BOOK 1978, PAGE 63.

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50 25 0 50 100 150 200 FEET
GRAPHIC SCALE

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

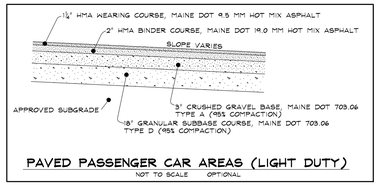
THAYER
ENGINEERING COMPANY
Land Surveyors Civil Engineers Planners
17 Hasson Street Farmingdale, Maine 04344-1613
(207)582-7762 fax (207)582-8113 thayereng.com

SITE PLAN

J. S. MCCARTHY PRINTERS

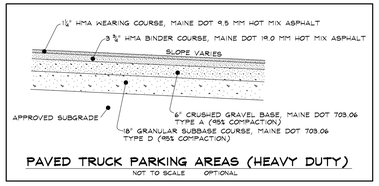
15 DARIN DRIVE
AUGUSTA, MAINE

Date: APRIL 15, 2016	Drawn by: NM	Chkd. by: EBT
Scale: 1" = 50'	Drawing # 2 OF 4	Proj. # 001254



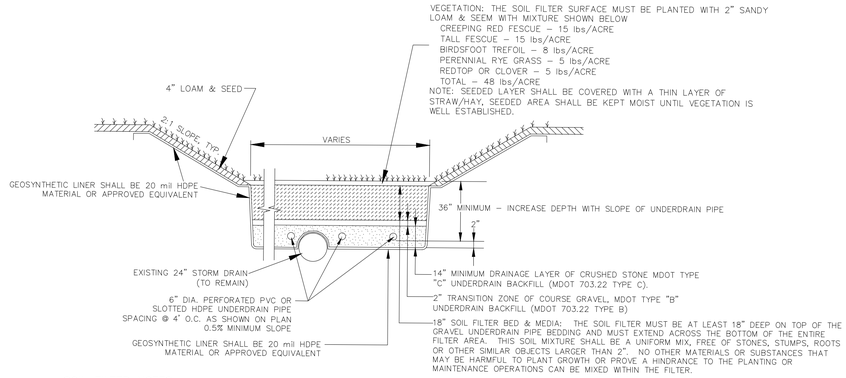
PAVED PASSENGER CAR AREAS (LIGHT DUTY)

NOT TO SCALE OPTIONAL



PAVED TRUCK PARKING AREAS (HEAVY DUTY)

NOT TO SCALE OPTIONAL



SOIL FILTER NOTES

1) THE SOIL FILTER IS PART OF A MAINE DEP PERMIT AND CONSTRUCTION SHALL FOLLOW CURRENT MAINE DEP GUIDELINES WHICH INCLUDE APPROVAL OF MATERIAL PRIOR TO PLACEMENT AND CONSTRUCTION OVERSIGHT BY THE DESIGN ENGINEER.

2) SUBMIT SAMPLES AND GRADATIONS FOR EACH MATERIAL TO BE USED. PROVIDE EXPECTED DESIGN MIX. PERFORM AND PROVIDE STANDARD PROCTOR ON COMBINED MIXTURE AS WELL AS A PERMEABILITY TEST.

3) FILTER BED MATERIAL SHALL NOT BE PLACED UNTIL SURROUNDING AREA HAS BEEN STABILIZED.

4) SCARIFY TO LOOSEN EXISTING SOIL AT LEAST 8" PRIOR TO LAYING FIRST LAYER OF THE SOIL FILTER SECTION.

5) MAXIMUM SPACING OF UNDERDRAIN PIPING IS 4' O.C.. END CAPS SHALL BE INSTALLED ON ALL UNDER DRAIN PIPES.

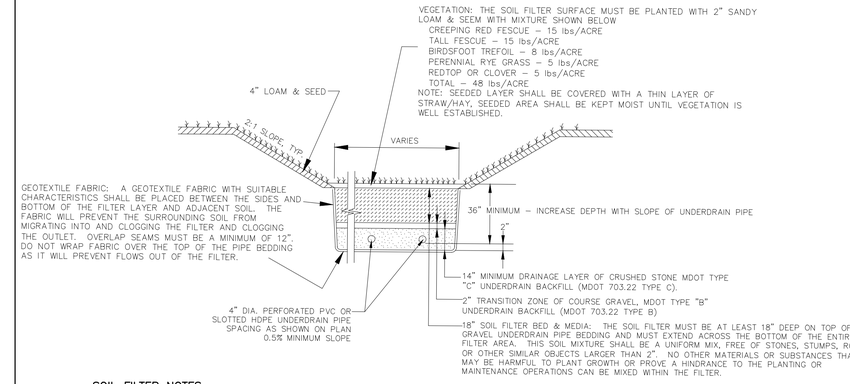
6) AFTER APPROVAL OF MATERIAL, PLACE FILTER MEDIA IN TWO LIFTS WITH LOW WEIGHT VEHICLES TO 92% STANDARD PROCTOR.

7) PROVIDE 2" OF BARK MULCH OR EROSION CONTROL MIX ON TOP OF THE FILTER BED UNTIL THE SITE HAS PROPOSED HARDSCAPE PLACED AND HAS VEGETATION WELL ESTABLISHED EVERYWHERE ELSE. ONCE THE SITE IS STABILIZED, REMOVE THE MULCH AND ACCUMULATED SEDIMENT FROM THE FILTER AND ESTABLISH VEGETATION PER THE FILTER BED SEEDING PLAN.

8) PRIOR TO TURNING OVER TO OWNER, REMOVE SEDIMENT AND DEBRIS FROM FILTER SURFACE, OVERFLOW WEIR, INSIDE OVERFLOW STRUCTURE AND DISCHARGE PIPE.

UNDERDRAINED SOIL FILTER #2 DETAIL

NOT TO SCALE



SOIL FILTER NOTES

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5) MAXIMUM SPACING OF UNDERDRAIN PIPING IS 4' O.C.. END CAPS SHALL BE INSTALLED ON ALL UNDER DRAIN PIPES.

6) AFTER APPROVAL OF MATERIAL, PLACE FILTER MEDIA IN TWO LIFTS WITH LOW WEIGHT VEHICLES TO 92% STANDARD PROCTOR.

7) PROVIDE 2" OF BARK MULCH OR EROSION CONTROL MIX ON TOP OF THE FILTER BED UNTIL THE SITE HAS PROPOSED HARDSCAPE PLACED AND HAS VEGETATION WELL ESTABLISHED EVERYWHERE ELSE. ONCE THE SITE IS STABILIZED, REMOVE THE MULCH AND ACCUMULATED SEDIMENT FROM THE FILTER AND ESTABLISH VEGETATION PER THE FILTER BED SEEDING PLAN.

8) PRIOR TO TURNING OVER TO OWNER, REMOVE SEDIMENT AND DEBRIS FROM FILTER SURFACE, OVERFLOW WEIR, INSIDE OVERFLOW STRUCTURE AND DISCHARGE PIPE.

UNDERDRAINED SOIL FILTER #1 DETAIL (EXPANDED AREA)

NOT TO SCALE

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

THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80% AND 100%, DRY WEIGHT BASIS.

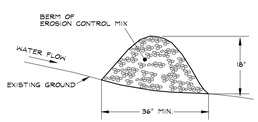
PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MINIMUM OF 70%, MAXIMUM OF 85%, PASSING A 0.75" SCREEN.

THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.

LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.

SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.; AND

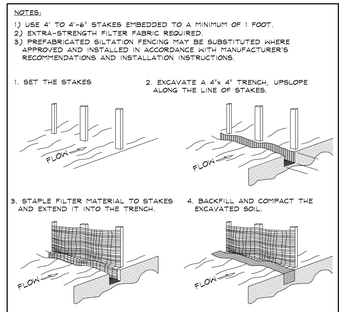
THE PH SHOULD FALL BETWEEN 5.0 AND 8.0.



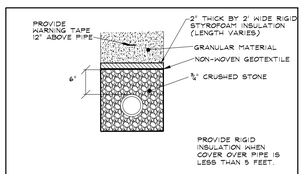
EROSION CONTROL MIX BERM

NOT TO SCALE

NOTES:
1) USE 4' TO 4'-6" STAKES EMBEDDED TO A MINIMUM OF 1 FOOT.
2) EXTRA-STRENGTH FILTER FABRIC REQUIRED.
3) PREFABRICATED SILTATION FENCING MAY BE SUBSTITUTED WHERE APPROVED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.



FILTER BARRIER INSTALLATION

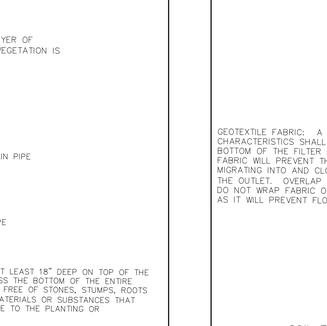


PIPE INSULATION

NOT TO SCALE

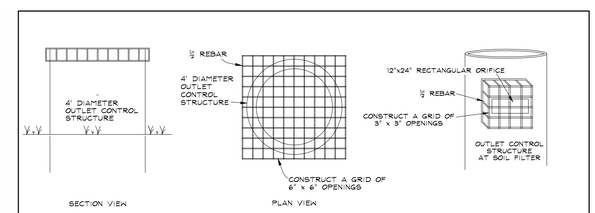
RIPRAP PLUNGE POOL

NOT TO SCALE



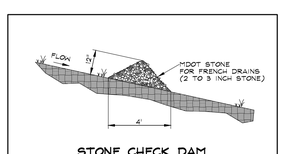
SOIL FILTER #2 PRECAST OUTLET CONTROL STRUCTURE

NOT TO SCALE



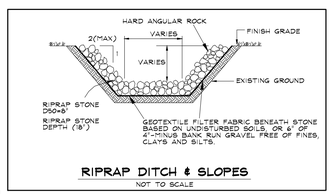
TRASH RACK DETAILS AT SOIL FILTER #2 OUTLET CONTROL STRUCTURE

NOT TO SCALE



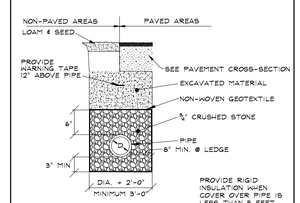
STONE CHECK DAM

NOT TO SCALE



RIPRAP DITCH & SLOPES

NOT TO SCALE

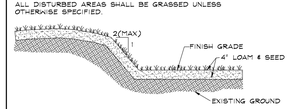


TYPICAL TRENCH

NOT TO SCALE

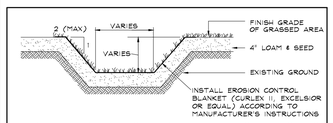
SEEDING WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS REFERENCED IN THE PERMANENT GRASS AND LEGUMES COVER BMP'S. THE SEEDED AREAS WILL BE PROTECTED DURING ESTABLISHMENT IN ACCORDANCE WITH THE MULCHING BMP'S.

ALL DISTURBED AREAS SHALL BE GRASSED UNLESS OTHERWISE SPECIFIED.



TYPICAL GRASS AREA

NOT TO SCALE



SEEDING WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS REFERENCED IN THE PERMANENT GRASS AND LEGUMES COVER BMP'S. PROTECTION OF THE SEEDED AREAS WILL BE PROVIDED DURING ESTABLISHMENT IN ACCORDANCE WITH THE MULCHING BMP'S. EROSION CONTROL BLANKET SHALL BE INSTALLED IN THE BASE AND SIDES OF ALL VEGETATED CHANNELS.

GRASS DITCH

NOT TO SCALE

THAYER
ENGINEERING COMPANY
Land Surveyors Civil Engineers Planners
17 Hasson Street Farmingdale, Maine 04344–1613
(207)582–7762 fax (207)582–8113 thayereng.com

CONSTRUCTION DETAILS PLAN

J. S. MCCARTHY PRINTERS

15 DARIN DRIVE
AUGUSTA, MAINE

Date: APRIL 15, 2016	Drawn by: NM	Chkd. by: EBT
Scale: NA	Drawing # 3 OF 4	Proj. # 001254

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL

EROSION & SEDIMENTATION CONTROL PLAN

Construction activities will be subject to an erosion and sedimentation control plan developed for the project that conforms to Maine Erosion and Sediment Control BMPs, by the Bureau of Land and Water Quality, Maine Department of Environmental Protection, dated March 2003 ("BMPs"). The plan includes measures to minimize erosion and sedimentation during and after construction. The erosion and sedimentation control plan developed for the project is as follows:

In areas where ground cover is removed between September 15th and May 1st, mulch shall be applied as called for in this plan within 2 days of the removal of the ground cover.

In areas where ground cover is removed, the areas shall be stabilized as soon as is practical either by a structural method meeting the standards as called for in the BMPs or by permanent vegetative cover.

Any construction activities taking place between November 1st and April 15th shall adhere to the following Winter Construction Plan (including specifications above):

1. The interim period for any exposed area shall be limited to 2 calendar days;

2. No more than 1 acre of the site may be without stabilization at any one time;

3. All areas within 100 feet of a protected natural resource must be protected by a double row of filter barriers;

4. Mulching and seeding rates shall adhere to the Temporary Seeding and Mulching Schedule set forth herein. Note that all mulching rates shall be doubled as shown in Note 1 of the Temporary Seeding and Mulching Schedule and should follow the sensitive area schedule. At the end of each construction day, all areas that have been brought to final grade must be stabilized. Mulch may not be spread on top of snow;

5. All vegetated ditch lines that have not been stabilized by November 1, or will be worked during the winter, must be stabilized with an appropriate stone lining backed by an appropriate gravel bed or geotextile unless specifically released from this standard by the Department;

6. Construction shall be planned to eliminate the need for seeding during the fall, winter or mud season.

STABILIZATION SCHEDULE BEFORE WINTER

September 15	All disturbed areas must be seeded and mulched. All slopes must be stabilized, seeded and mulched. All grass-lined ditches and channels must be stabilized with mulch or an erosion control blanket.
October 1	If the slope is stabilized with an erosion control blanket and seeded, all disturbed areas to be protected with an annual grass must be seeded at a seeding rate of 3 lbs per 1,000 square feet and mulched.
November 15	All stone-lined ditches and channels must be constructed and stabilized. Slopes that are covered with riprap must be constructed by that date.
December 1	All disturbed areas where the growth of vegetation fails to be at least three inches tall or at least 75% of the disturbed soil is covered by vegetation, must be protected for over-winter.

CONSTRUCTION OF EROSION & SEDIMENTATION CONTROL MEASURES

SCHEDULE FOR IMPLEMENTATION

(1) Prior to any earth-moving, grubbing or construction activities, sediment barriers shall be installed in the locations shown on the accompanying project "Site Plan" and as specified in this plan;

(2) Measures shall be taken by the Site Contractor to ensure that sediment is not tracked off site by construction vehicles leaving the site.

(3) The topsoil shall be removed and stockpiled on-site. Filter barriers shall be installed around any stockpiles expected to remain longer than three days. Stockpiles expected to remain longer than 15 days shall be treated with mulch;

(4) Areas of ledge will be removed as necessary;

(5) Sediment collection structures will be constructed and stabilized as called for in this plan.

(6) The site will be rough-graded, storm drains and other utilities will be installed, and disturbed areas shall be stabilized against erosion as called for in this plan;

(7) The drainage area of the infiltration basin shall be stabilized before the basin bed is finalized;

(8) The INFILTRATION BASIN shall be constructed, lined and stabilized in accordance with the details set forth on this plan;

(9) Immediately following final grading, all graded or disturbed areas not to be paved or otherwise stabilized are to be spread with a minimum compacted depth of 4 inches of topsoil, seeded and mulched to provide a permanent vegetative cover. The areas of the site to be allowed to revert to natural vegetation shall be seeded with a conservation mix. The seeding will occur between April 15th and September 15th in order to ensure a successful germination. The permanent seeding shall be applied in accordance with this plan;

(10) Sediment barriers shall remain in place until all areas have been permanently stabilized and an adequate grass catch has been achieved (>90% coverage with no evidence of washing or rilling of the topsoil). It will be the responsibility of the contractor to properly remove the sediment barriers within 30 days after the site has been permanently stabilized and to remove and properly dispose of the collected sediment.

(11) Stockpiling of topsoil and fill materials is limited to areas inside the proposed limits of work.

(12) Preventative measures addressing spills, groundwater contamination, fugitive sediment, and dust, debris, and other materials, and excavation water dewatering shall be undertaken in accordance with Ch. 500, Appendix C.

(13) Storage/Handling of liquid petroleum product and any other hazardous material shall be limited to the work area southerly of the CMP transmission line.

MAINTENANCE OF EROSION & SEDIMENTATION CONTROL MEASURES

During construction, inspection and maintenance requirements will include:
(1) Inspection and corrective action. Disturbed and impervious areas, erosion control measures, materials storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site, will be inspected at least once a week as well as before and after a storm event, and prior to completing permanent stabilization measures.

(2) Maintenance. All measures will be maintained in effective operating condition until areas are permanently stabilized. Best management practices (BMPs) will be maintained or modified as needed and if additional BMPs are necessary or other corrective action is needed, implementation will be completed within 7 calendar days and prior to any storm event.

(3) Documentation. A log will be kept summarizing the inspections and any corrective actions taken. Logs will be retained for a period of at least three years from the completion of permanent stabilization.

(4) Sediment barriers shall be inspected weekly and/or after any sustained rainstorm for undercutting, overtopping, gaps, or sediment buildup. Should the barriers not be functioning properly they shall immediately be repaired or replaced and sediment removed as necessary. Any sediment removed shall be spread and stabilized in areas on the site not subject to erosion. If additional barriers are found to be necessary they shall be installed immediately;

(5) Mulched areas shall be inspected weekly and prior to any storm event for insufficient coverage (less than 90% coverage) and, if necessary, immediately be brought into conformance with the specifications of this plan;

(6) If germination of temporary seeding is unsuccessful (less than 90% catch) within 30 days of seeding, the area shall be reseeded;

(7) If germination of final seeding is unsuccessful (less than 90% catch) within 30 days of seeding, the area shall be reseeded.

Post-construction inspection and maintenance requirements include:
(1) Culvert inlet and outlet protection - At least once a year and as conditions dictate:
a. Immediately repair any eroded areas around the riprap;
b. Remove accumulated sediment and dispose of it in a manner that will not negatively impact surrounding properties or water bodies.
(2) Riprap ditches and swales - At least once a year and as conditions dictate:
a. Immediately repair any eroded areas and install new riprap as necessary;
b. Remove accumulated sediment and dispose of it in a manner that will not negatively impact surrounding properties or water bodies.

(3) Vegetated surfaces - At least once a year and as conditions dictate:
a. Immediately repair any eroded areas and install new loam and seed as necessary.
(4) Sand Filter Basin -
a. At least once a year, inspect the filter basin embankments to identify slope erosion. Immediately repair any problems.
b. At least once a year perform mowing bush-hogging, or brush cutting of the filter basin.
c. Dredging will be required when volume loss due to sediment accumulation reaches 15%, or approximately every 15-20 years.

(5) Driveways and paved areas -
a. In the spring - clear accumulated winter sand.
b. Sweep pavement to remove sediment.
c. Ensure that stormwater is not impeded by accumulations of material or false ditches in the shoulder or at the edges of other paved areas.
d. Immediately repair any eroded areas.

(6) Catch basins -
a. In the spring - clean catch basins of accumulated sand and debris.

(7) Documentation -
a. A log will be kept summarizing the inspections, maintenance and any corrective actions taken. Logs will be retained for a period of at least three years from the completion of permanent stabilization.

DESCRIPTIONS OF EROSION CONTROL MEASURES

SEDIMENT BARRIERS
Description
Sediment barriers shall be used to intercept and retain small amounts of sediment from disturbed or unprotected areas of limited extent. The sediment barriers shall conform to the materials and installation specifications as set forth herein and in the BMPs and shall be installed in the locations shown on the accompanying "Site Plan". The sediment barriers may consist of the fabric-type supported by stakes or of the erosion control mix berm both as detailed on the drawings.

NOTE: Locations of sediment barriers are shown on the "Site Plan" for general purposes only. Final locations may be modified based on actual field conditions and as site conditions warrant. Such field changes or modifications shall be approved by the Engineer.

Maintenance
The sediment barrier shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately. A second line of sediment barrier shall be installed if the sediment level reaches one half the height of the first barrier.

The sediment barrier shall be removed within 30 days after the Site has been permanently stabilized and the sediment collected shall be properly disposed of in a manner that will not damage adjacent properties or water bodies.

TEMPORARY SEEDING
Description
For areas in which permanent stabilization is not feasible within 90 days from the start of construction or when construction will be interrupted for longer than 2 months, the disturbed areas shall be stabilized with a temporary vegetative cover or with mulch secured with erosion control netting. The installation of temporary seeding shall conform to the specifications as set forth below.
Temporary Seeding and Mulching Schedule:

(1) Mulching shall be applied at a rate of 70-90 lbs/1,000 sq. ft.
(180 lbs/1,000 sq. ft. for winter construction).
(2) Temporary seeding rates shall be as follows:
April 1 to July 1: Annual Ryegrass at 0.90 lbs/1,000 sq. ft.
May 15 to August 15: Sudangrass at 0.90 lbs/1,000 sq. ft.
August 15 to October 1: Winter Rye at 2.60 lbs/1,000 sq. ft.
Fertilizer @ 25 lbs/1,000 sq. ft.
Agricultural Lime @ 130 lbs/1,000 sq. ft.
(3) The time limit for mulching in sensitive areas may be overridden by the most current weather forecast. All exposed soils in sensitive areas shall be mulched prior to every anticipated storm event.

Maintenance
Visual inspections shall be used to determine if an adequate catch has been achieved. Any areas with less than 90% catch shall be reseeded.

MULCH
Description
Hay mulch shall be used to temporarily stabilize exposed soil and to aid in the establishment of temporary or permanent seeding.

Mulching shall be used on all areas of bare soil not brought to final grade within one week at a rate of not less than 2 bales (70-90 pounds) per 1,000 square feet. (180 lbs/1,000 sq. ft. for winter construction)
On areas where slopes average greater than 8% and on all waterways and ditches, mulch shall be secured with anchored erosion control netting.

The installation of temporary mulching (application rates, depths and timing, quality standards and maintenance) shall conform to the specifications as set forth in the BMPs and as called for in this plan.

EROSION CONTROL MIX
Description
Erosion Control Mix can be used in place of Hay Mulch to temporarily stabilize exposed soil and to aid in the establishment of temporary or permanent seeding. Erosion Control Mix shall contain a well-graded mixture of particle sizes and may contain rocks less than 4" in diameter. The mix composition shall meet the requirements as set forth in the BMPs.

Erosion Control Mix shall be used on areas of bare soil not brought to final grade within one week or prior to any storm event. The installation thickness of the mix is determined by the length and steepness of the slope being protected. The installation of the mix shall be applied in conformance with the rates set forth in the BMPs.

RIPRAP DITCH
Description
The installation of the riprap ditches shall conform to the specifications as set forth in the Riprap Ditch Detail hereon and in the BMPs.

For the timely stabilization of the riprap ditches: Construction of any section of ditch, once started, will be completed and stabilized within 24 hours.

GRASS DITCH
Description
The installation of the grass ditches shall conform to the specifications as set forth in the Grass Ditch Detail hereon and in the BMPs.

For the timely stabilization of the grass ditches: Construction of any section of ditch, once started, will be completed and stabilized within 24 hours.

PERMANENT SEEDING
Description
Permanent seeding will be installed on all disturbed soils (except for those areas to be built on or paved) to ensure stabilization of the soil and for aesthetic considerations.

The installation of permanent seeding (application rates, depths and timing and fertilizer application) shall conform to the specifications as set forth in the BMPs. All permanent seeding shall be completed by September 15th. Any work contemplated beyond September 15th shall adhere to the winter construction schedule.

A specific seed mixture should be chosen to match the conditions at the Site. The following is a suggested schedule of application:

Loam: 4 inches evenly spread and raked.
Seed Mixture: Creeping Red Fescue, 0.46 lbs/1,000 sq. ft.
Redtop, 0.05 lbs/1,000 sq. ft.
Tall Fescue, 0.46 lbs/1,000 sq. ft.
Total: 0.97 lbs/1,000 sq. ft.
Agricultural Lime @ 130 lbs/1,000 sq. ft.
Fertilizer @ 25 lbs/1,000 sq. ft.
Mulch @ 70-90 lbs/1,000 sq. ft.

Seed and mulch shall be applied not more than two days after preparation of the seedbed (loam). Fill-in seeding shall be done in those areas where grass has not attained a sufficient catch of 90%.

A layer of hay mulch (or other appropriate mulch as specified by the BMPs) will be used to help hold in moisture and protect the soil from erosion before the seed germinates.

Maintenance
Planted areas shall be protected from damage by grazing, fire, traffic, and undesirable weed and wood growth as applicable. Visual inspections shall be used to determine if an adequate catch has been achieved. Any areas with less than a 90% catch shall be reseeded.

The party responsible for ensuring that the erosion and sedimentation controls and stormwater control measures for this project are installed, functioning and maintained as called for in the above Erosion & Sedimentation Control Plan is:

Elliot B. Thayer, P.E.
Thayer Engineering Company, Inc.
17 Hasson Street
Farmingdale, Me 04344

Telephone: 207-582-7762

The erosion control and maintenance measures contained in the above Erosion & Sedimentation Control Plan were designed by:

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E & S CONTROL PLAN

J. S. MCCARTHY PRINTERS
15 DARIN DRIVE
AUGUSTA, MAINE

Date: APRIL 15, 2016	Drawn by: NM	Chkd. by: EBT
Scale: 1" = 50'	Drawing # 4 OF 4	Proj. # 001254

PRELIMINARY WITHOUT ORIGINAL SIGNATURE AND SEAL