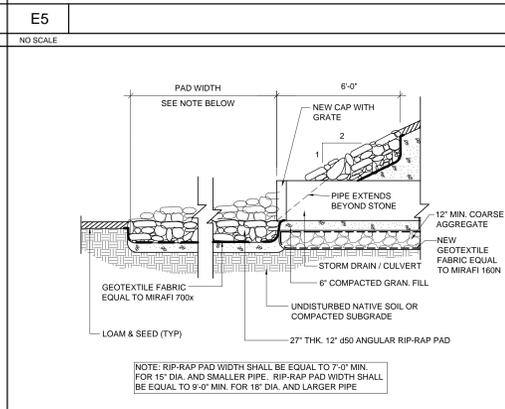
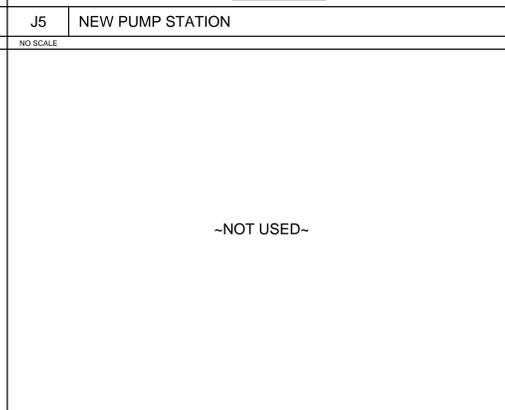
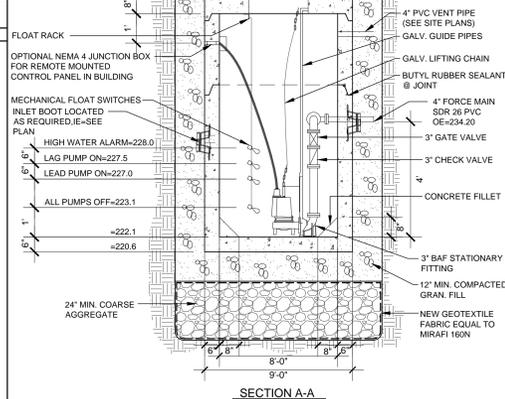
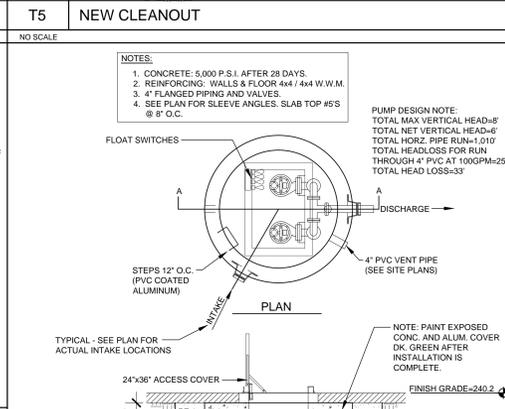
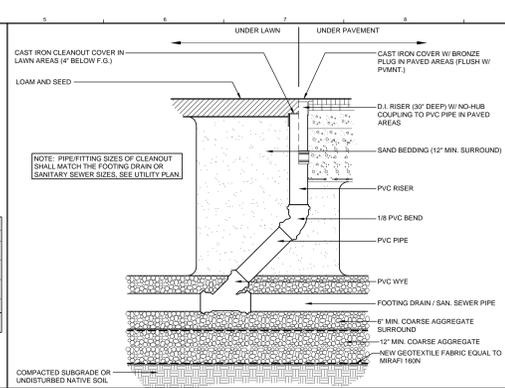
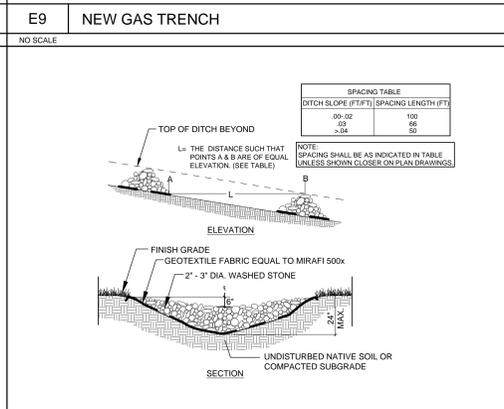
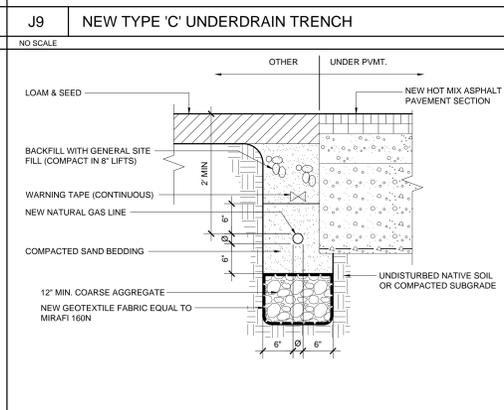
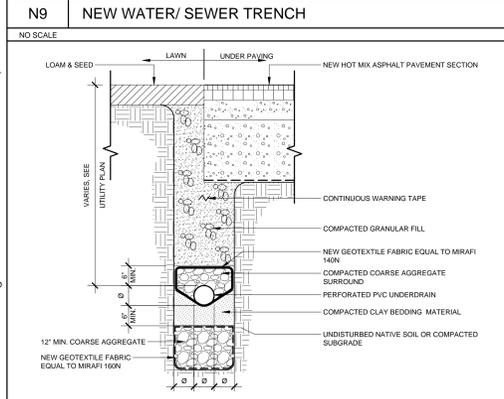
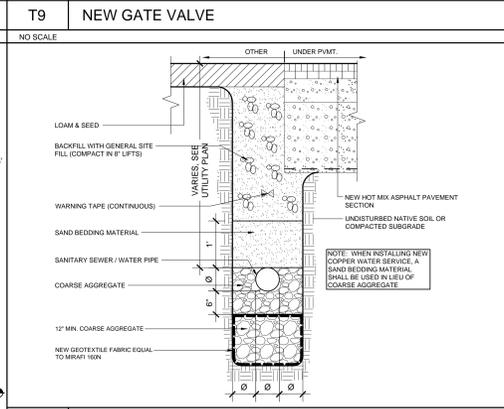
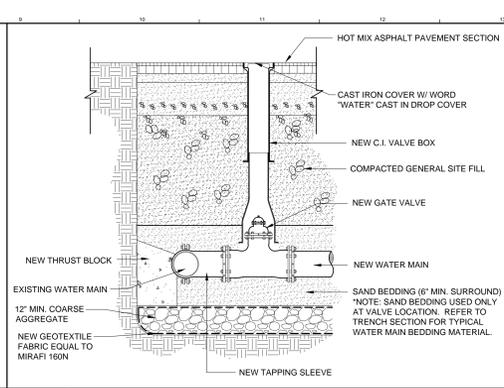


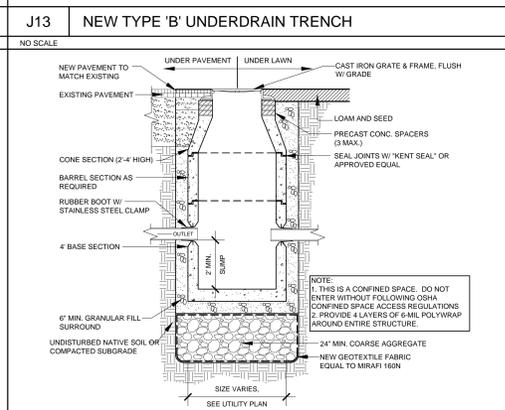
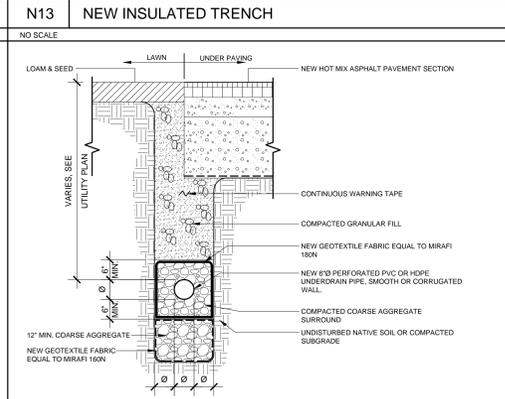
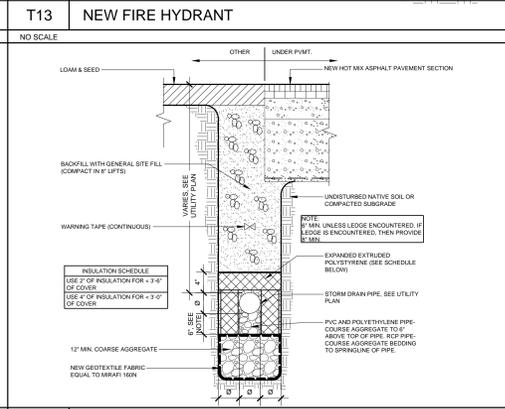
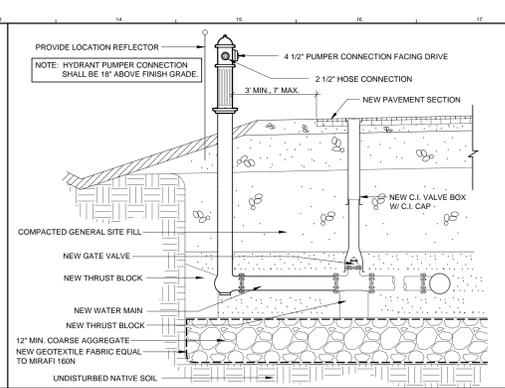
A1 TEMPORARY HAY BALE BARRIER
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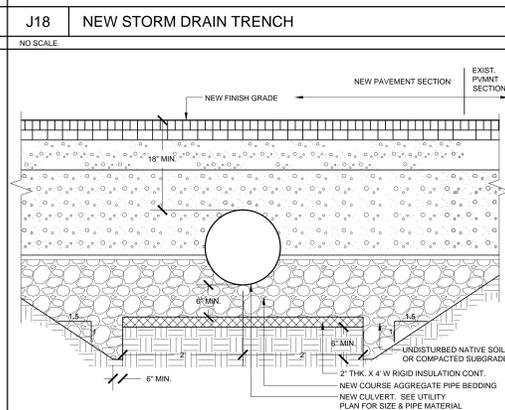
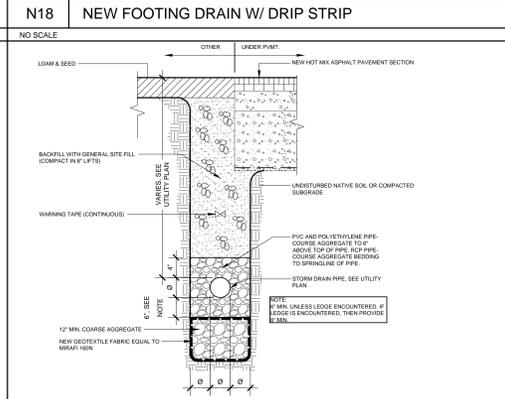
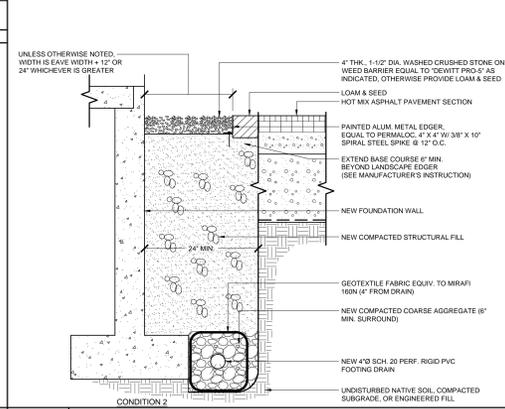
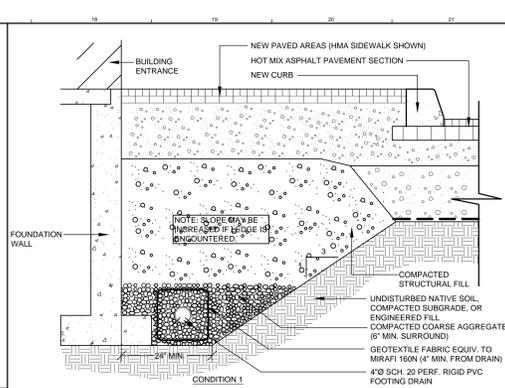
A9 NEW STONE CHECK DAM
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A13 NEW GRASS SWALE
 NO SCALE



A18 NEW RIP RAP BANK STABILIZATION
 NO SCALE



J18 NEW STORM DRAIN TRENCH
 NO SCALE

REV. DESCRIPTION DATE

APPROVAL DRAWINGS
 05.07.14

CURRENT ISSUE STATUS:

WBRC
 ARCHITECTS + ENGINEERS
 519 BAY STREET, SUITE 200
 PORTLAND, MAINE 04101-2000
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 ARCHITECTURE/ENGINEERING/LANDSCAPE ARCHITECTURE/PLANNING/INTERIOR DESIGN
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 PORTLAND, MAINE 04101-2000
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PROJECT: AUGUSTA, MAINE

JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

SITE DETAILS

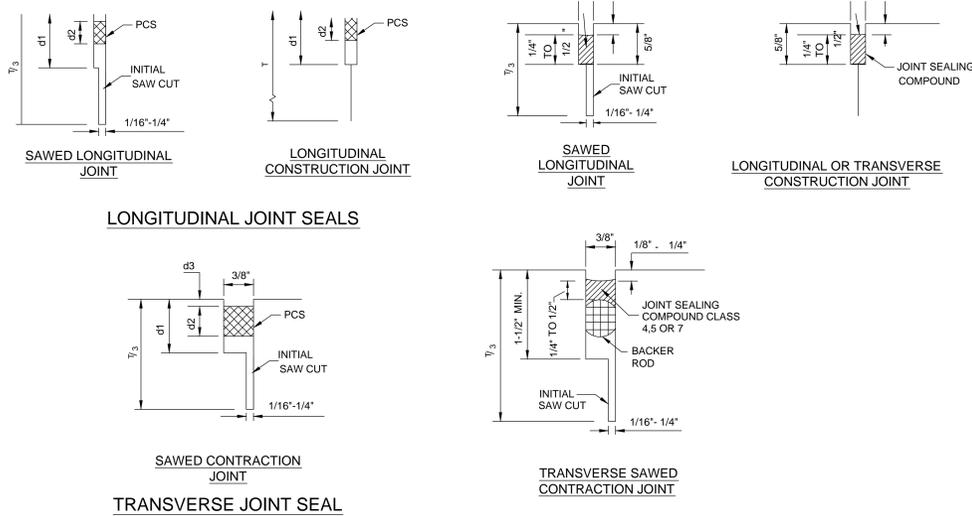
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SCALE: NO SCALE

PROJECT MANAGER: MLW
 DRAWN BY: TAR
 CHECKED BY: ARB

C503

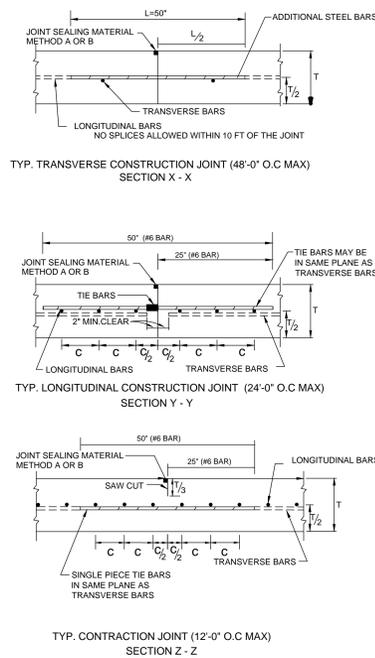


METHOD A: PREFORMED COMPRESSION SEAL (PCS)

METHOD B: JOINT SEALING COMPOUND

GENERAL NOTES FOR JOINT SEALS

- UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- THE LOCATION OF JOINTS SHALL BE AS INDICATED IN DETAIL J9/C504
- DIMENSIONS d1, d2, AND d3 SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURER'S RECOMMENDATION.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWS UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWS JOINTS.
- THE JOINTS SHALL BE CLEANED PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.



GENERAL NOTES

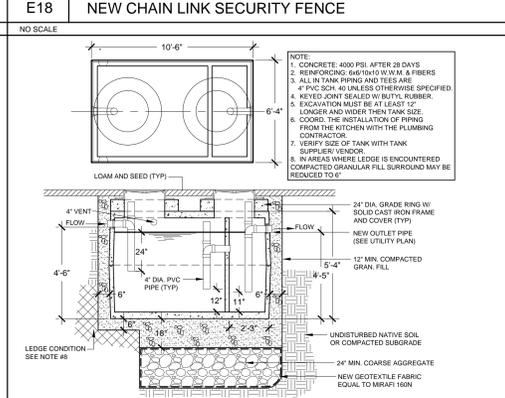
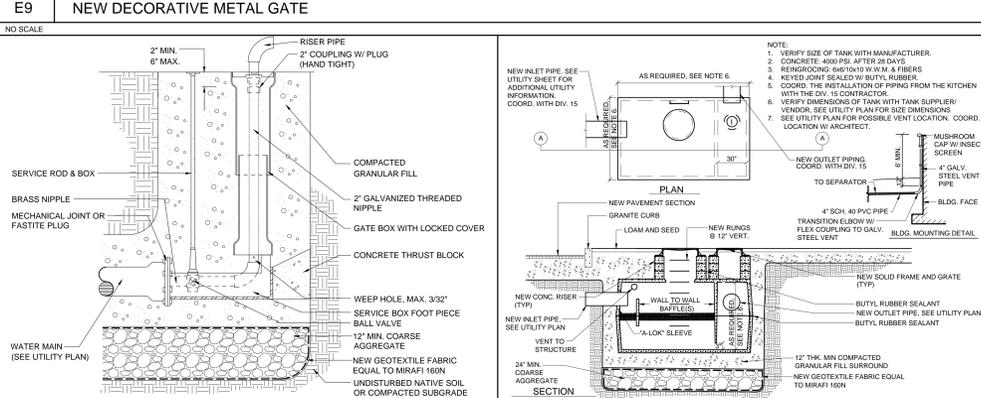
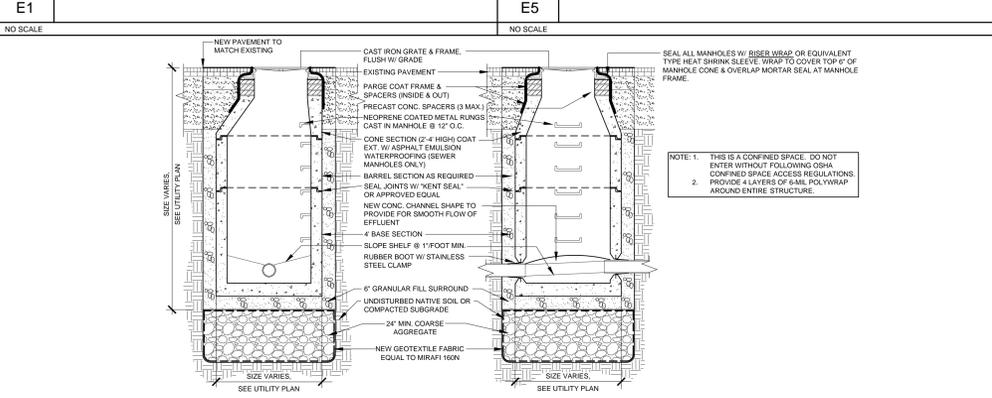
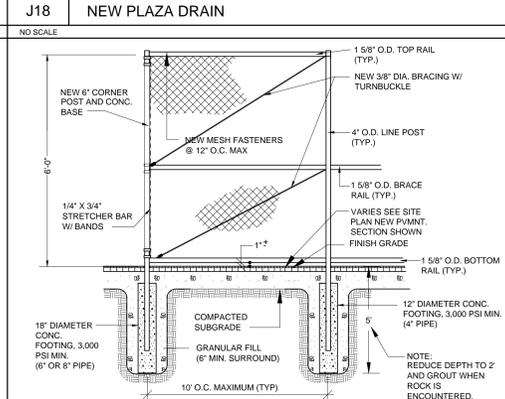
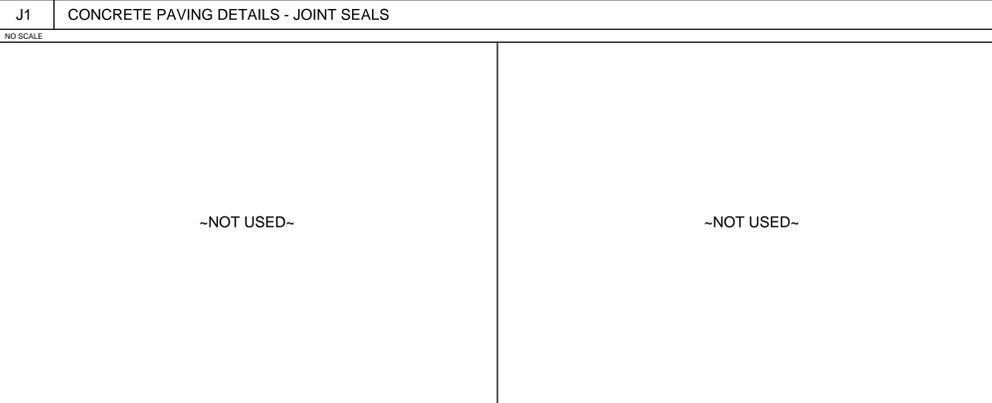
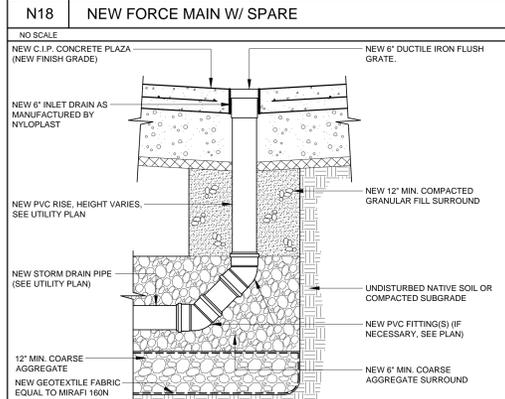
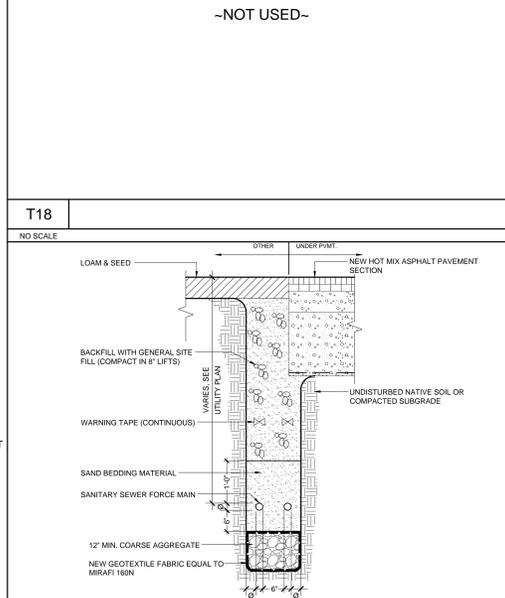
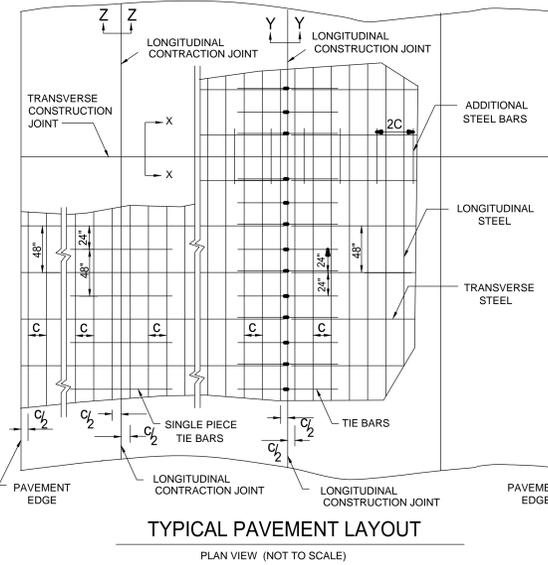
- SUBMIT PROPOSED JOINT LAYOUT PLAN TO ARCHITECT FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- REFER TO METHOD "A" AND METHOD "B", "CONCRETE PAVING DETAILS, JOINT SEALS" ON THIS SHEET
- ALL THE REINFORCING STEEL AND TIE BARS SHALL BE DEFORMED EPOXY COATED STEEL BARS CONFORMING TO ASTM A 934. STEEL BAR SIZES SHALL CONFORM TO TABLE NO. 1 & 2.
- STEEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1 IN. HORIZONTALLY AND +/- 0.5 IN. VERTICALLY. CALCULATED AVERAGE BAR SPACING (CONCRETE PLACEMENT WIDTH / NUMBER OF LONGITUDINAL BARS) SHALL CONFORM TO TABLE NO.1 AND AS SPECIFIED.
- THE SAW CUT DEPTH FOR THE LONGITUDINAL CONTRACTION JOINT SHALL BE ONE THIRD OF THE SLAB THICKNESS.
- WHEN APPROVED BY THE ENGINEER, SINGLE PIECE TIE BARS MAY BE USED BY INSERTING INTO PLASTIC CONCRETE AT LONGITUDINAL CONSTRUCTION JOINTS.
- MISSING OR DAMAGED TIE BARS SHALL BE REPLACED BY DRILLING AND EPOXY GROUTING AT THE CONTRACTOR'S EXPENSE.
- OMIT TIE BARS LOCATED WITHIN 18" OF THE TRANSVERSE CONSTRUCTION JOINTS. USE HAND-OPERATED IMMERSION VIBRATORS TO CONSOLIDATE THE CONCRETE ADJACENT TO ALL FORMED JOINTS.
- PROVIDE BROOM FINISH.

TABLE NO.2 TRANSVERSE STEEL AND TIE BARS

SLAB THICKNESS (IN.)	TRANSVERSE STEEL		TIE BARS AT LONGITUDINAL CONTRACTION JOINT		TIE BARS AT LONGITUDINAL CONSTRUCTION JOINT	
	BAR SIZE	SPACING (IN.)	BAR SIZE	SPACING (IN.)	BAR SIZE	SPACING (IN.)
8.0	#6	48	#6	48	#6	24

TABLE NO.1 LONGITUDINAL STEEL

SLAB THICKNESS AND BAR SIZE	REGULAR STEEL BARS		FIRST SPACING AT EDGE OR JOINT		ADDITIONAL STEEL BARS AT TRANSVERSE CONSTRUCTION JOINT	
	T (IN.)	BAR SIZE	SPACING (IN.)	SPACING (IN.)	SPACING (IN.)	LENGTH (IN.)
8.0	#6	8'	4'	16	50	



APPROVAL DRAWINGS
05.07.14

REV. DESCRIPTION DATE

CURRENT ISSUE STATUS:

WBRC ARCHITECTS • ENGINEERS

O'BrienAtkins

ARCHITECTURE ENGINEERING LANDSCAPE ARCHITECTURE PLANNING INTERIOR DESIGN

JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

SITE DETAILS

PROJECT: AUGUSTA, MAINE

SHEET TITLE: WBRC CAD FILE: 3752.00 GRAPHIC SCALE: 0\"/>

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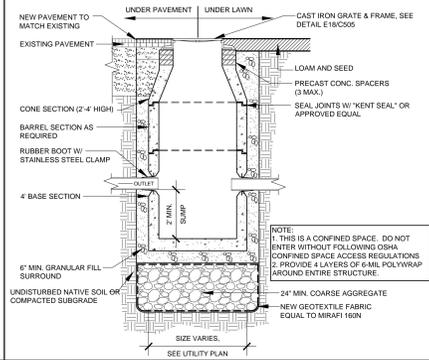
DRAWN BY: TAR

CHECKED BY: ARB

May 07, 2014 - 10:40am
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	Soil Filter #1	Soil Filter #2
Groundwater Elevation (FT)	NONE OBSERVED	NONE OBSERVED
Bottom of Pipe Bedding Elevation (FT)	221.67	222.33
Top of Filter Media Elevation (FT)	224	224.5
Rim Elevation (FT)	225.5	226.0
Overflow Elevation (FT)	226	N/A
Berm Elevation (FT)	226.5	N/A

- SOIL FILTER NOTES:**
1. FILTER BED MATERIAL SHALL NOT BE PLACED UNTIL SURROUNDING AREA HAS BEEN STABILIZED.
 2. SCARIFY TO LOOSEN EXISTING SOIL AT LEAST 8 INCHES PRIOR TO LAYING FILTER UNDERDRAIN SECTIONS.
 3. MAXIMUM SPACING OF UNDERDRAIN PIPING IS 8' O.C. END CAPS SHALL BE INSTALLED ON ALL UNDERDRAIN PIPES.
 4. PROVIDE TWO INCHES OF BARK MULCH OR EROSION CONTROL MIX ON TOP OF THE FILTER BED UNTIL THE SITE HAS BEEN WELL ESTABLISHED WITH VEGETATION. ONCE THE SITE IS STABILIZED, REMOVE THE MULCH AND ACCUMULATED SEDIMENT FROM THE FILTER AND ESTABLISH VEGETATION PER THE FILTER BED SEEDING PLAN.



STORMWATER CONSTRUCTION OVERSIGHT NOTES

THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES TO BE BUILT AS PART OF THIS PROJECT. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE CONSTRUCTION TO BE PLACED FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER SHALL NOTIFY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN WRITING WITHIN 30 DAYS TO STATE THAT THE STRUCTURES HAVE BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION SHALL 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.

VEGETATED UNDERDRAINED GRAVEL TRENCH OUTLET

CONSTRUCTION INSPECTIONS: INSPECTION BY A PROFESSIONAL ENGINEER SHALL CONSIST OF VISUAL VISITS TO THE SITE BY THE ENGINEER TO INSPECT THE EMBANKMENT FOUNDATION PREPARATION, THE PLACEMENT OF THE EMBANKMENT'S CORE FILL, THE CONSTRUCTION OF THE UNDERDRAINED GRAVEL TRENCH OUTLET, THE INSTALLATION OF THE OUTLET CONTROL STRUCTURE, THE PLACEMENT OF THE GEOSYNTHETIC LINER AND THE CONSTRUCTION OF THE EMERGENCY SPILLWAY FROM INITIAL GRADING DISTURBANCE TO FINAL STABILIZATION OF THE WETPOND.

TESTING AND SUBMITTALS: ALL SOIL AND AGGREGATE USED FOR THE CONSTRUCTION OF THE WETPOND'S IMPOUNDMENT EMBANKMENT AND THE UNDERDRAINED GRAVEL TRENCH OUTLET SHALL BE CONFIRMED AS SUITABLE BY TESTING. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH FILL OR AGGREGATE AND OBTAIN SAMPLES FOR TESTING. ALL TESTING MUST BE DONE BY A CERTIFIED LABORATORY. PERFORMANCE ANALYSES OF THE EMBANKMENT FILL AS NEEDED TO DETERMINE THE FILL GRADATION AND PERCENT CLAY. THE EMBANKMENT FILL MUST CONFORM TO THE GRADATION SPECIFIED ON THE PROJECT PLANS AND MUST BE APPROVED BY THE DESIGN OR RESIDENT ENGINEER.

IF THE UNDERDRAIN PIPES WILL BE BEDDED IN GRAVEL: OBTAIN A SAMPLE OF THE GRAVEL FILL TO BE USED FOR THE UNDERDRAIN PIPES. 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 OF THE GRAVEL TO BE USED FOR THE UNDERDRAIN PIPE BEDDING. THE GRAVEL FILL MUST CONFORM TO MEET SPECIFICATION 703.22 UNDERDRAIN TYPE B.

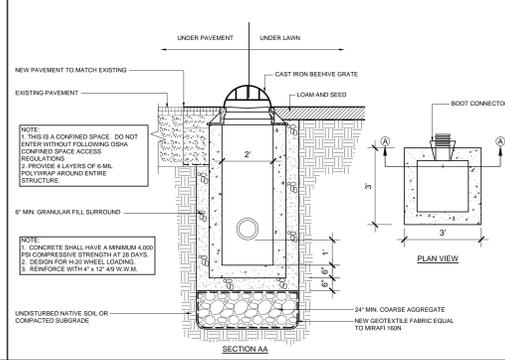
IF THE UNDERDRAIN PIPES WILL BE BEDDED IN CRUSHED STONE: OBTAIN A SAMPLE OF THE CRUSHED STONE TO BE USED FOR THE PIPE BEDDING. THE SAMPLE MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE. THE SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY. PERFORM A SIEVE ANALYSIS OF THE CRUSHED STONE TO BE USED FOR THE UNDERDRAIN PIPE BEDDING. THE CRUSHED STONE FILL MUST CONFORM TO MEET SPECIFICATION 703.22 UNDERDRAIN TYPE C.

VEGETATED UNDERDRAINED SOIL FILTER BASINS

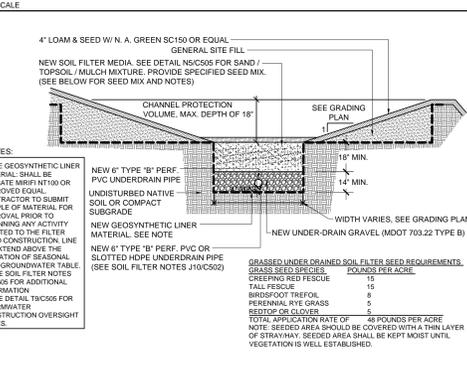
CONSTRUCTION INSPECTIONS: AT A MINIMUM, THE PROFESSIONAL ENGINEER'S INSPECTION SHALL OCCUR AFTER FOUNDATION SOIL PREPARATION BUT PRIOR TO PLACEMENT OF THE EMBANKMENT FILL. AFTER THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED, AFTER THE PIPE BEDDING FILL IS PLACED BUT PRIOR TO THE PLACEMENT OF THE FILTER MEDIA, AND AFTER THE FILTER MEDIA HAS BEEN PLACED AND THE FILTER SURFACE SEEDING.

TESTING AND SUBMITTALS: ALL THE SOIL, MULCH, AND AGGREGATE USED FOR THE CONSTRUCTION OF THE VEGETATED UNDERDRAINED SOIL FILTER BASIN SHALL 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 SHALL 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 BASINS CONSTRUCTION.

- OBTAIN A SAMPLE OF THE FILTER MEDIA CONSISTING OF A BLEND OF SAND, TOPSOIL, AND WOOD FIBER MULCH (OR OTHER APPROVED ORGANIC SOURCE). THE SAMPLE MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE. THE SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY. PERFORM ANALYSES OF THE BLENDED FILTER MEDIA SHOWING IT HAS 40 TO 120% BY WEIGHT PASSING THE #200 SIEVE AS DETERMINED BY ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES 1996A) HAS A CLAY CONTENT OF LESS THAN 2%, AND HAS AN ORGANIC MATTER CONTENT OF NO LESS THAN 10% BY DRY WEIGHT.
- IF THE UNDERDRAIN PIPES WILL BE BEDDED IN GRAVEL: OBTAIN A SAMPLE OF THE GRAVEL FILL TO BE USED FOR THE UNDERDRAIN PIPES. 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 OF THE GRAVEL TO BE USED FOR THE UNDERDRAIN PIPE BEDDING. THE GRAVEL FILL MUST CONFORM TO MEET SPECIFICATION 703.22 UNDERDRAIN TYPE B.
- IF THE UNDERDRAIN PIPES WILL BE BEDDED IN CRUSHED STONE: OBTAIN A SAMPLE OF THE CRUSHED STONE TO BE USED FOR THE PIPE BEDDING. THE SAMPLE MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE. THE SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY. PERFORM A SIEVE ANALYSIS OF THE CRUSHED STONE TO BE USED FOR THE UNDERDRAIN PIPE BEDDING. THE CRUSHED STONE FILL MUST CONFORM TO MEET SPECIFICATION 703.22 UNDERDRAIN TYPE C.



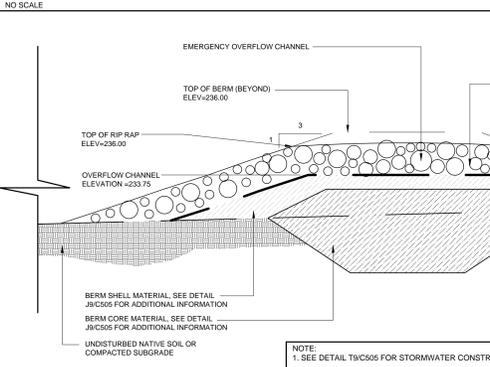
T1 SOIL FILTER ELEVATIONS, AREAS, AND NOTES



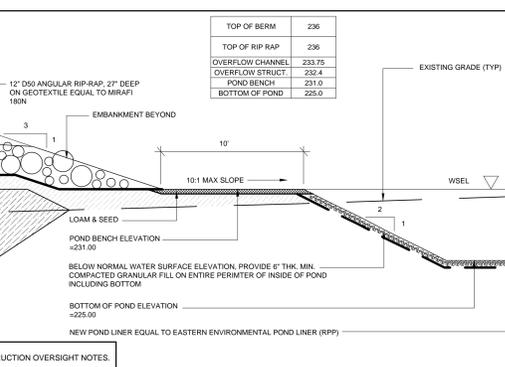
T5 NEW POND OUTLET CONTROL STRUCTURE

Soil Filter Media Specifications		
Filter Media	Mixture By Volume	Specifications
		MEDOT Specification #703.01 Fine Aggregate for Concrete
		Sieve Size % By Weight
		3/8" 100
		#4 90-100
		#8 80-100
		#16 50-85
		#30 25-60
		#60 10-30
		#100 2-10
		#200 0-5
Sand	50%-55%	Loamy sand topsoil with minimal clay content and between 15 to 25% fines passing the #200 sieve
Topsoil	20%-30%	Moderately fine, shredded bark or wood fiber mulch with less than 5% passing the #200 sieve
Mulch	20%-30%	

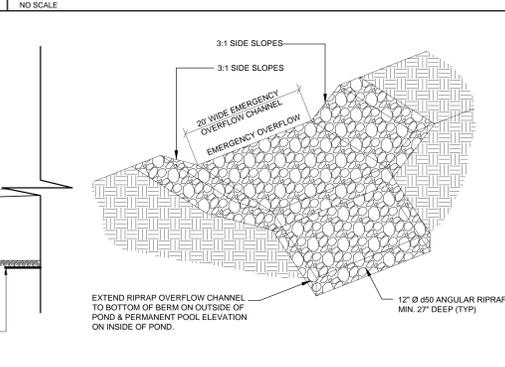
T9 STORMWATER CONSTRUCTION OVERSIGHT NOTES



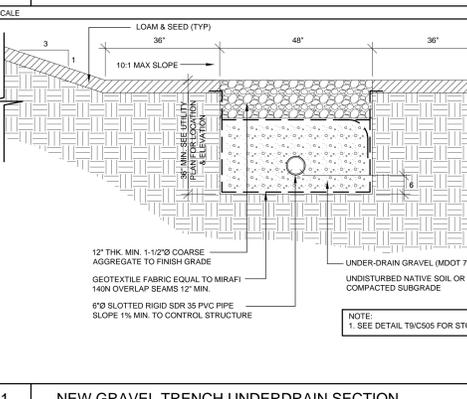
T18 NEW SOIL FILTER OUTLET CONTROL STRUCT./GRATE



T18 NEW SOIL FILTER OUTLET CONTROL STRUCT./GRATE



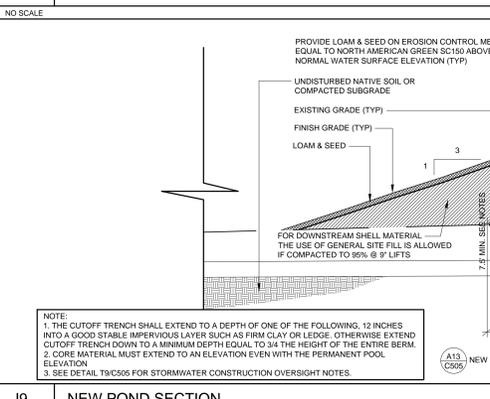
N1 NEW SOIL FILTER



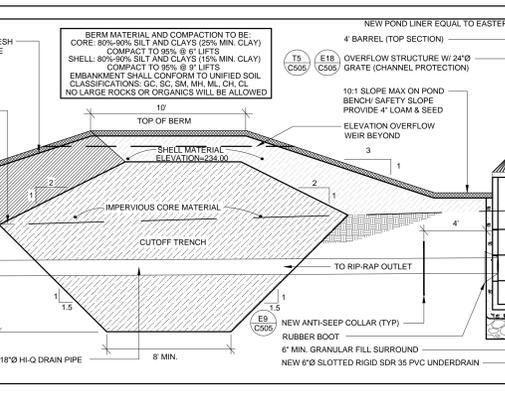
N5 SOIL FILTER MEDIA

Soil Filter Media Specifications		
Filter Media	Mixture By Volume	Specifications
		MEDOT Specification #703.01 Fine Aggregate for Concrete
		Sieve Size % By Weight
		3/8" 100
		#4 90-100
		#8 80-100
		#16 50-85
		#30 25-60
		#60 10-30
		#100 2-10
		#200 0-5
Sand	50%-55%	Loamy sand topsoil with minimal clay content and between 15 to 25% fines passing the #200 sieve
Topsoil	20%-30%	Moderately fine, shredded bark or wood fiber mulch with less than 5% passing the #200 sieve
Mulch	20%-30%	

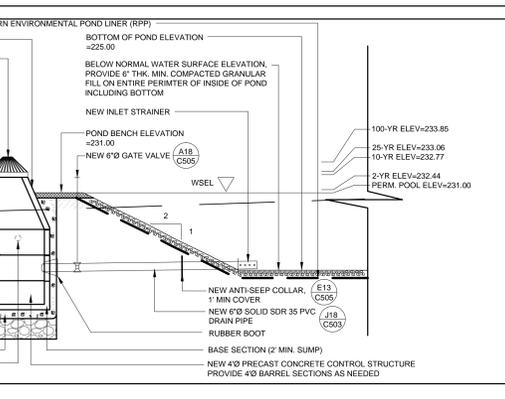
N9 EMERGENCY SPILLWAY SECTION & ISOMETRIC



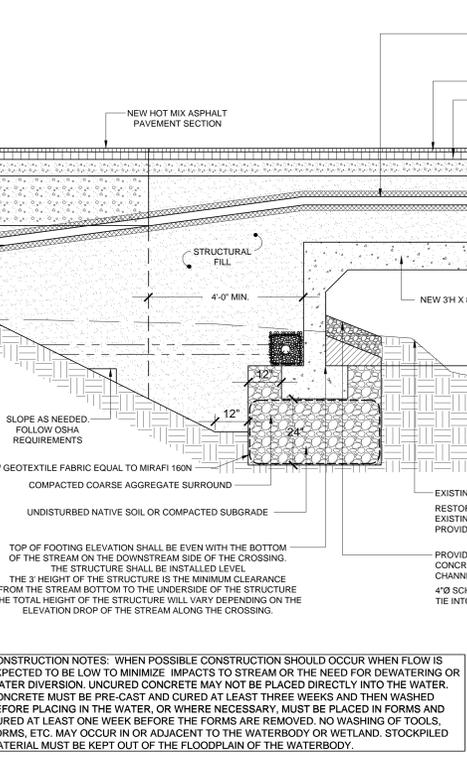
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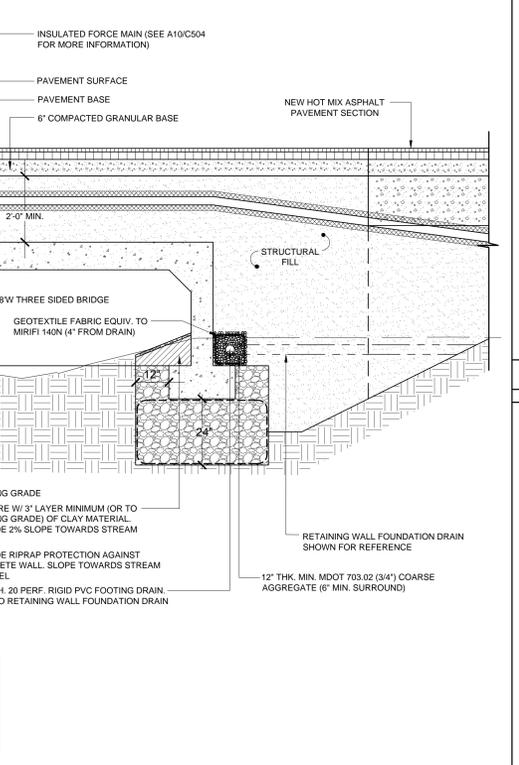
N9 EMERGENCY SPILLWAY SECTION & ISOMETRIC



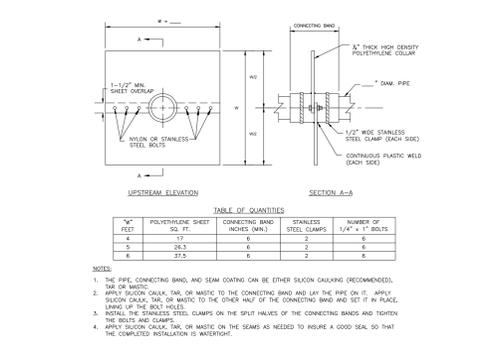
J1 NEW GRAVEL TRENCH UNDERDRAIN SECTION



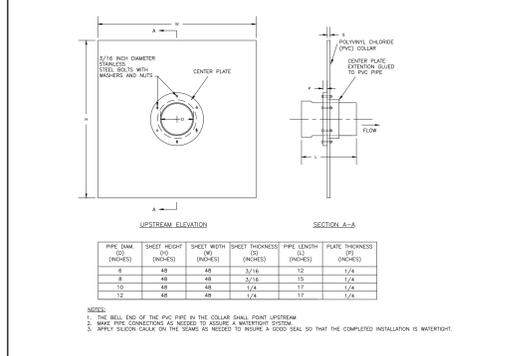
J9 NEW POND SECTION



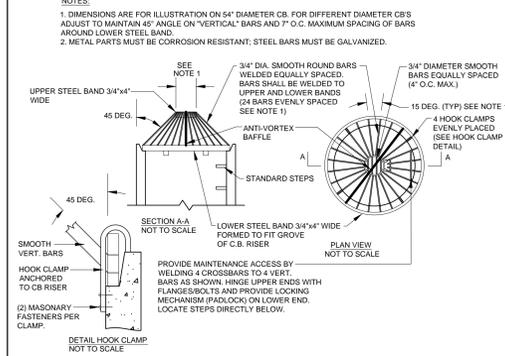
J9 NEW POND SECTION



E9 NEW ANTI-SEEP COLLAR (HDPE PIPE)



E13 NEW ANTI-SEEP COLLAR (PVC PIPE)



APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

2	PER DEP COMMENTS	01-03-2014
1	PER DEP COMMENTS	11-15-2013
REV.	DESCRIPTION	DATE

STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
NO. 10411
DATE: 07/14/14

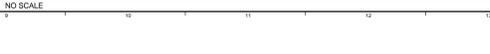
A1 NEW BOTTOMLESS THREE SIDED BOX CULVERT



A9



A9



A13 CULVERT THROUGH EMBANKMENT



A18 NEW GATE VALVE



WBRC ARCHITECTS - ENGINEERS
BANGOR, MAINE 307-647-4511
PORTLAND, MAINE 263-4441
SARASOTA, FLORIDA 941-556-0757

O'BrienAtkins
Architecture/Engineering/Landscape Architecture/Planning/Interior Design

JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

SITE DETAILS

PROJECT: AUGUSTA, MAINE

SHEET TITLE: **C505**

DATE: 05.07.14

SCALE: AS SHOWN

DRAWN BY: TAR

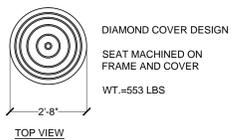
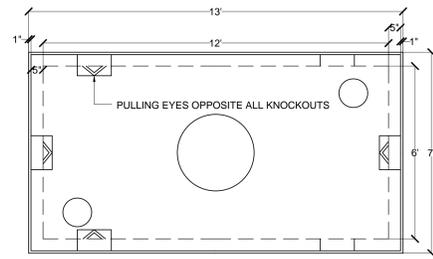
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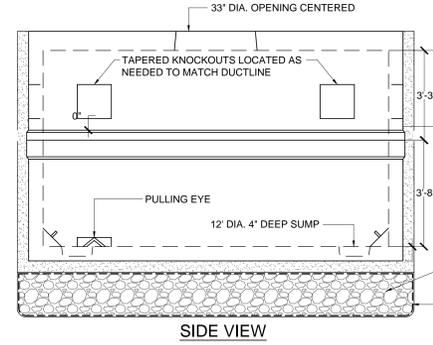
-NOT USED-

T1 NO SCALE T5 NO SCALE

NOTES:
 VAULT SHALL BE DESIGNED TO WITHSTAND H20 WHEEL LOADING WITH 6 INCHES OF OVERBURDEN. THE DESIGN SHALL ALSO COMPLY WITH THE STRENGTH REQUIREMENTS OF NATIONAL ELECTRICAL SAFETY CODE SECTION 323A. PROVIDE SHOP DRAWINGS STAMPED BY A STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER UPON REQUEST.
 JOINTS SEALED WITH ASPHALT.
 MOUNTINGS FOR CABLE RACKS ETC. CAST IN WALL BY FURTHER PLANS OR FIELD LOCATED.
 MANHOLE SHALL BE SET ON A SUITABLE GRAVEL BASE.
 CABLES ARE TO BE RACKED ALONG ONE WALL ONLY.



PLAN VIEW

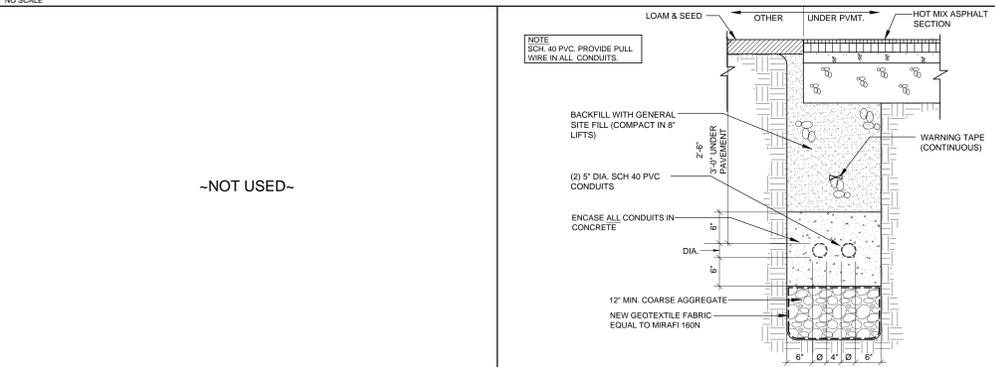


SIDE VIEW

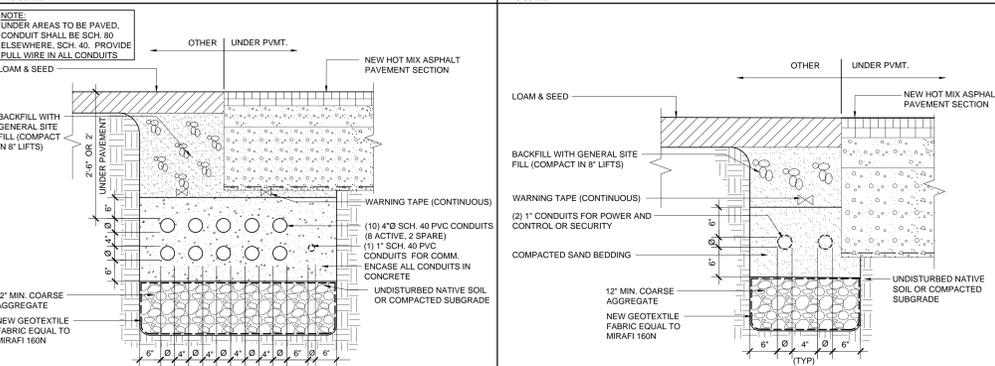
COVER DETAIL

J1 NEW ELECTRICAL MANHOLE NO SCALE

-NOT USED-



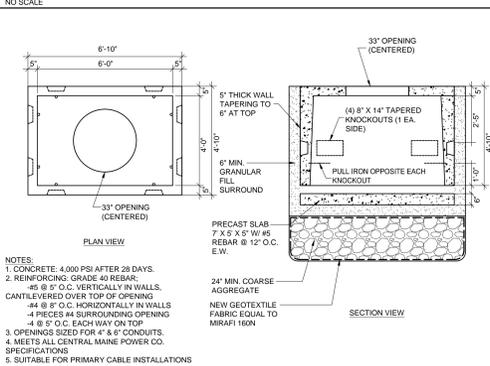
E1 NO SCALE E5 NEW PRIMARY TRENCH NO SCALE



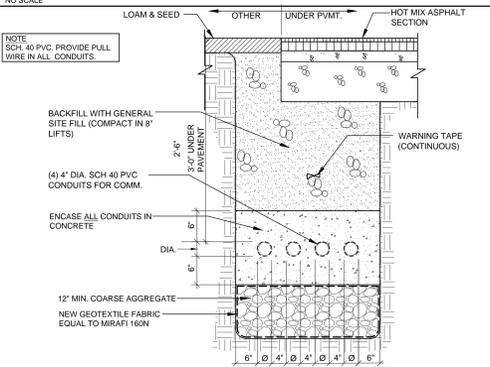
A1 NEW SECONDARY TRENCH NO SCALE A5 NEW ELECTRIC TRENCH NO SCALE



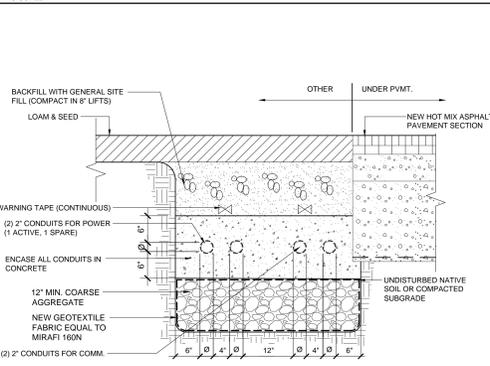
N9 NEW TRANSFORMER PAD NO SCALE



J9 NEW COMMUNICATIONS MANHOLE NO SCALE



E9 NEW FIBER OPTIC TRENCH NO SCALE



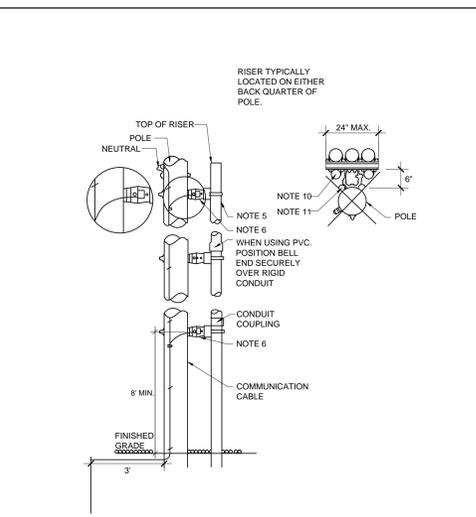
A9 NEW ELECTRIC/COMM TRENCH (TO GATE HOUSE) NO SCALE



NOTES:
 1. FRONT DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE LOCATED. THE CONCRETE BASE SHALL BE SET ON A SUITABLE GRAVEL BASE AND LOCATED SO THE FRONT IS ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED FROM FLOW AND TRAFFIC DAMAGE.
 2. BEFORE INSTALLING OR REQUIRING ANY ACTIVE DRAINAGE STRUCTURE (e.g. DRAIN PIPE) INTO FOUNDATION OR PAD, THE CONTRACTOR, CMP LINE SUPERVISOR, OR CMP DISTRIBUTION ENGINEER MUST CONTACT CENTRAL MAINE POWER COMPANY'S ENVIRONMENTAL SERVICED DEPARTMENT AT 623-3521 EXT. 3479 TO REQUEST A SITE INSPECTION.
 3. FINISH GRADE SHALL BE GRADED IN SUCH A MANNER TO ALLOW SURFACE WATER TO FLOW AWAY FROM THE PAD.
 4. PROVIDE 8\"/>



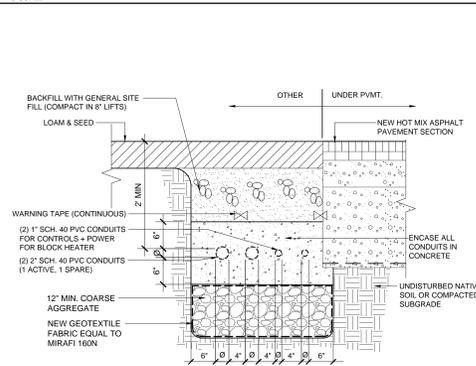
N18 NEW ELECTRICAL PULL BOX NO SCALE



MATERIALS:

STAND OFF BRACKETS	ALUMA-FORM 6CS0-12 6CS0-24	HUBBLE C6-CS0-12 C6-CS0-24	CORAN (PORCELAIN PRODUCTS) 8610
CHANNEL	CHANNEL INCLUDED	CHANNEL INCLUDED	SUPER STRUT A-1200-HS B-LINE B-22
CONDUIT STRAP KIT	ALUMA-FORM 2 STK-2 2.5 STK-2.5 3 STK-3 3.5 STK-3.5 4 STK-4 5 STK-5 6 STK-6	HUBBLE CSTK-2 CSTK-2.5 CSTK-3 CSTK-3.5 CSTK-4 CSTK-5 CSTK-6	SUPER STRUT 702-2 STR 702-2 1/2 702-3 702-3 1/2 702-4 702-5 702-6

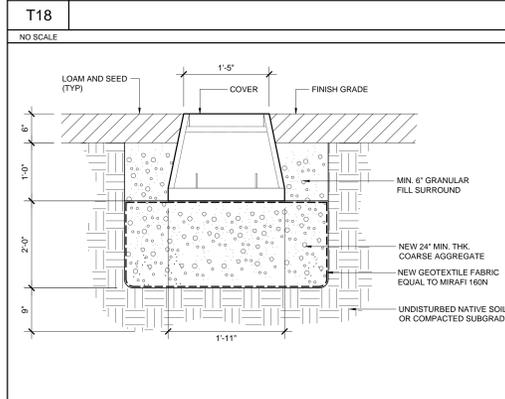
E13 NEW RISER POLE NO SCALE



A13 NEW GENERATOR ELEC. TRENCH (GATE HOUSE) NO SCALE



-NOT USED-



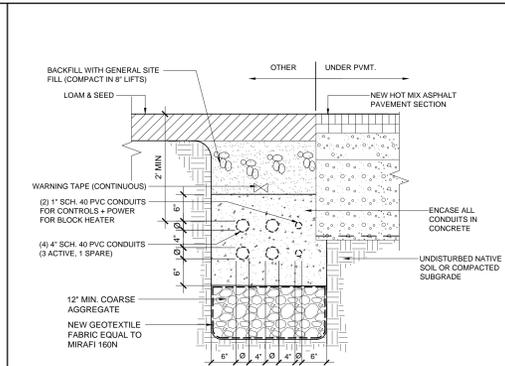
N18 NEW ELECTRICAL PULL BOX NO SCALE

NOTES:
 1. STAND OFF BRACKETS ARE REQUIRED WHEN MORE THAN ONE CONDUIT PER UTILITY IS TO BE INSTALLED ON A POLE.
 2. ALL THREE PHASE PRIMARY RISERS, WHETHER STAND OFF BRACKETS ARE USED OR NOT, SHALL BE RIGID STEEL FOR THE FIRST SECTION.
 3. ON SINGLE PHASE PRIMARY, SECONDARY AND SERVICE URD RISERS USING STAND OFF BRACKETS, RIGID STEEL OR SCHEDULE 80 MAY BE USED.
 4. WHERE RIGID STEEL OR SCHEDULE 80 PVC IS USED FOR THE RISER, ONE BRACKET SHALL BE USED TO SUPPORT EACH SECTION OF CONDUIT UP TO 10 FEET IN LENGTH. EACH BRACKET IS TO BE PLACED JUST BELOW THE RISER CONDUIT COUPLING.
 5. CONDUIT SECTIONS FOR SINGLE PHASE OR THREE PHASE RISERS USING STAND OFF BRACKETS SHALL BE RIGID STEEL OR SCHEDULE 80 PVC CONDUIT ONLY (SEE NOTE #2), WITH THE EXCEPTION THAT SCHEDULE 40 PVC SUNLIGHT RESISTANT CONDUIT MAY BE USED FOR THE TOP SECTION OF THE RISER (NOT LONGER THAN 10'). IF TOP SECTIONS LONGER THAN 24\"/>

MATERIALS:

STAND OFF BRACKETS	ALUMA-FORM 6CS0-12 6CS0-24	HUBBLE C6-CS0-12 C6-CS0-24	CORAN (PORCELAIN PRODUCTS) 8610
CHANNEL	CHANNEL INCLUDED	CHANNEL INCLUDED	SUPER STRUT A-1200-HS B-LINE B-22
CONDUIT STRAP KIT	ALUMA-FORM 2 STK-2 2.5 STK-2.5 3 STK-3 3.5 STK-3.5 4 STK-4 5 STK-5 6 STK-6	HUBBLE CSTK-2 CSTK-2.5 CSTK-3 CSTK-3.5 CSTK-4 CSTK-5 CSTK-6	SUPER STRUT 702-2 STR 702-2 1/2 702-3 702-3 1/2 702-4 702-5 702-6

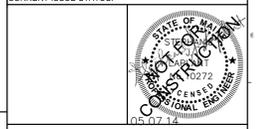
E13 NEW RISER POLE NO SCALE



A18 NEW GENERATOR ELEC. TRENCH (MAIN BUILDING) NO SCALE



APPROVAL DRAWINGS 05.07.14



WBRC ARCHITECTS-ENGINEERS

OBrienAtkins

JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

SITE DETAILS

May 07, 2014 - 10:48am
L:\3101-3801\310201-Joint Force Headquarters V. Design\Sheets\Site\310201-01.dwg - cdf.dwg

MATCH LINE LP103

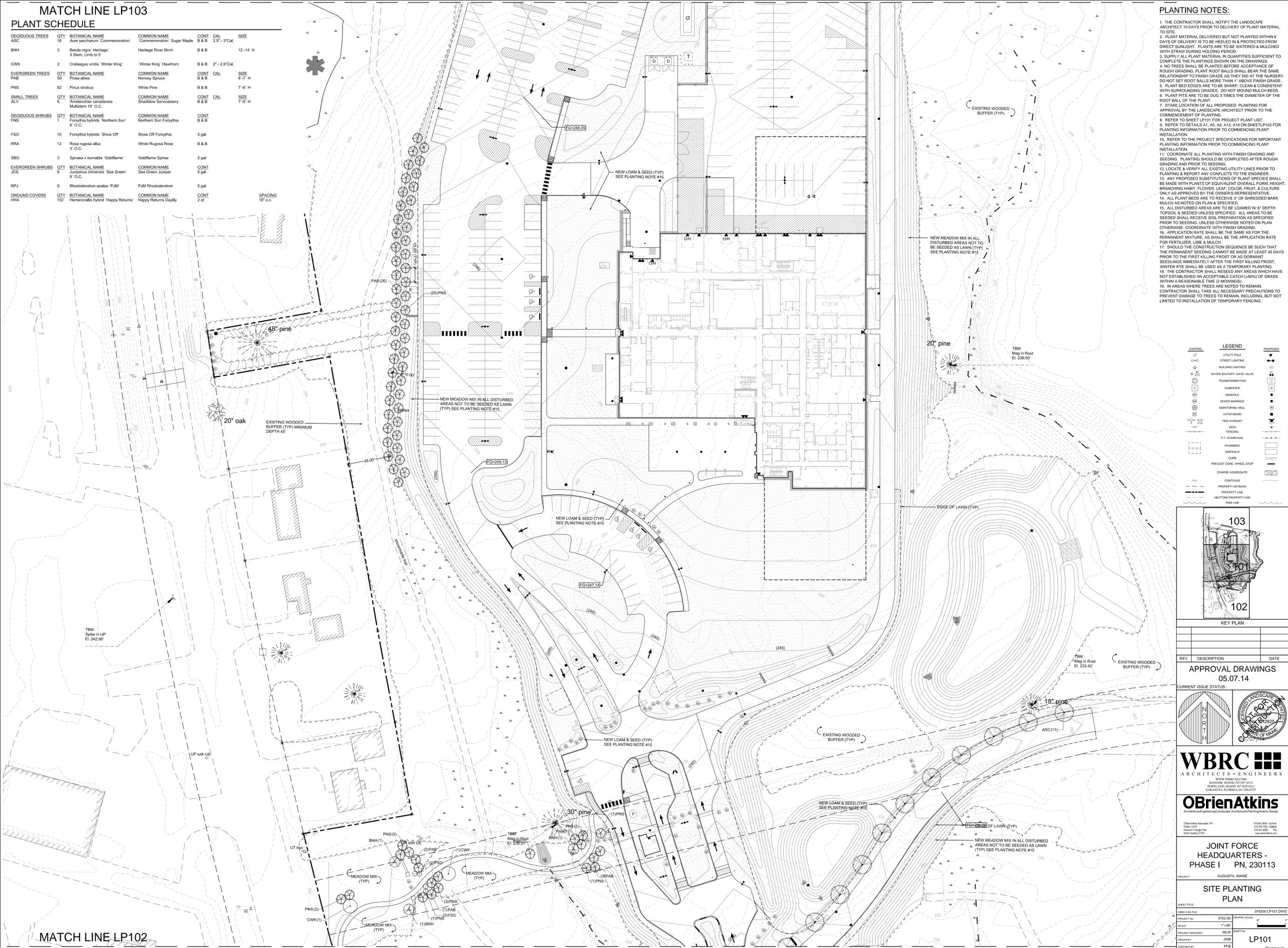
PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
ASC	18	Acer saccharum 'Commemoration'	Commemoration Sugar Maple	B & B	2.5"	3" Cal.
BNH	3	Betula nigra 'Heritage'	Heritage River Birch	B & B		12-14" H
CWK	2	Crataegus villosa 'Winter King'	Winter King Hawthorn	B & B	2"	2.5" Cal.
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
PAB	59	Pinus abies	Norway Spruce	B & B		6-7" H
PNS	82	Pinus strobus	White Pine	B & B		7-8" H
SMALL TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
ALV	6	Amelanchier canadensis	Shadblow Serviceberry	B & B		7-8" H
DECIDUOUS SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
FNS	1	Forsythia hybrids 'Northern Sun'	Northern Sun Forsythia	B & B		
FSO	10	Forsythia hybrids 'Show Off'	Show Off Forsythia	5 gal		
RRA	12	Rosa rugosa alba	White Rugosa Rose	B & B		
SBG	3	Spiraea x bumalda 'Goldflame'	Goldflame Spiraea	5 gal		
EVERGREEN SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
JCS	6	Juniperus chinensis 'Sea Green'	Sea Green Juniper	5 gal		
RPJ	6	Rhododendron azalea 'PJM'	PJM Rhododendron	5 gal		
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
HHA	102	Hemerocallis hybrid 'Happy Returns'	Happy Returns Daylily	2 qt		

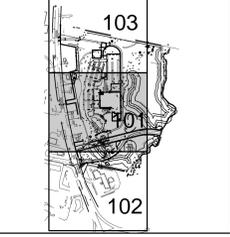
SPACING
18" o.c.

PLANTING NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 10 DAYS PRIOR TO DELIVERY OF PLANT MATERIAL TO SITE.
2. PLANT MATERIAL DELIVERED BUT NOT PLANTED WITHIN 6 DAYS OF DELIVERY IS TO BE HELED IN & PROTECTED FROM DIRECT SUNLIGHT. PLANTS ARE TO BE WATERED & MULCHED WITH STRAW DURING HOLDING PERIOD.
3. SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
4. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. PLANT ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS THEY DID AT THE NURSERY. DO NOT SET ROOT BALLS MORE THAN 1" ABOVE FINISH GRADE.
5. PLANT BED EDGES ARE TO BE SHARP, CLEAN & CONSISTENT WITH SURROUNDING GRADES. DO NOT MOUND MULCH BEDS.
6. PLANT PITS ARE TO BE DUG 3 TIMES THE DIAMETER OF THE ROOT BALL OF THE PLANT.
7. STATE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
8. REFER TO SHEET LP101 FOR PROJECT PLANT LIST.
9. REFER TO DETAILS A1, A3, A9, A13, A18 ON SHEET LP102 FOR PLANTING INFORMATION PRIOR TO COMMENCING PLANT INSTALLATION.
10. REFER TO THE PROJECT SPECIFICATIONS FOR IMPORTANT PLANTING INFORMATION PRIOR TO COMMENCING PLANT INSTALLATION.
11. COORDINATE ALL PLANTING WITH FINISH GRADING AND SEEDING. PLANTINGS SHOULD BE COMPLETED AFTER ROUGH GRADING AND PRIOR TO SEEDING.
12. LOCATE & VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING & REPORT ANY CONFLICTS TO THE ENGINEER.
13. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT, & CULTURE ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.
14. ALL PLANT BEDS ARE TO RECEIVE 3" OF SHREDDED BARK MULCH AS NOTED ON PLAN & SPECIFIED.
15. ALL DISTURBED AREAS ARE TO BE LOAMED W/ 8" DEPTH TOPSOIL & SEEDED UNLESS SPECIFIED. ALL AREAS TO BE SEEDING SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN. OTHERWISE, COORDINATE WITH FINISH GRADING.
16. APPLICATION RATE SHALL BE THE SAME AS FOR THE PERMANENT MIXTURE. AS SHALL BE THE APPLICATION RATE FOR FERTILIZER, LIME & MULCH.
17. SHOULD THE CONSTRUCTION SEQUENCE BE SUCH THAT THE PERMANENT SEEDING CANNOT BE MADE AT LEAST 45 DAYS PRIOR TO THE FIRST KILLING FROST OR AS DORMANT SEEDLINGS IMMEDIATELY AFTER THE FIRST KILLING FROST, WINTER RYE SHALL BE USED AS A TEMPORARY PLANTING.
18. THE CONTRACTOR SHALL RESEED ANY AREAS WHICH HAVE NOT ESTABLISHED AN ACCEPTABLE CATCH (>80%) OF GRASS WITHIN A REASONABLE TIME (2 MOVINGS).
19. IN AREAS WHERE TREES ARE NOTED TO REMAIN, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO TREES TO REMAIN, INCLUDING, BUT NOT LIMITED TO INSTALLATION OF TEMPORARY FENCING.



EXISTING	PROPOSED
UTILITY POLE	UTILITY POLE
STREET LIGHTING	STREET LIGHTING
BUILDING LIGHTING	BUILDING LIGHTING
WATER SHUTOFF / GATE VALVE	WATER SHUTOFF / GATE VALVE
TRANSFORMER PAD	TRANSFORMER PAD
DIAPHRAGM	DIAPHRAGM
MARKER	MARKER
SEWER MANHOLE	SEWER MANHOLE
MONITORING WELL	MONITORING WELL
CATCH BASIN	CATCH BASIN
FIRE HYDRANT	FIRE HYDRANT
SGN	SGN
FENCING	FENCING
P.T. GUARD RAIL	P.T. GUARD RAIL
PAVEMENT	PAVEMENT
SEWERWALK	SEWERWALK
CURB	CURB
PRECAST CONC. WHEEL STOP	PRECAST CONC. WHEEL STOP
COARSE AGGREGATE	COARSE AGGREGATE
CONTOURS	CONTOURS
PROPERTY SETBACK	PROPERTY SETBACK
PROPERTY LINE	PROPERTY LINE
ARBITRARY PROPERTY LINE	ARBITRARY PROPERTY LINE
TREE LINE	TREE LINE



REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

WBRC
ARCHITECTS + ENGINEERS

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Research Triangle Park 918.841.9200 - Fax
1000 Capital Blvd. www.obrienatkins.com

JOINT FORCE
HEADQUARTERS -
PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE PLANTING PLAN

SHEET TITLE: 375200 LP101.DWG

WBRC CAD FILE: 3752.00

PROJECT NUMBER: MLW SHEET NO: LP101

DRAWN BY: JWB

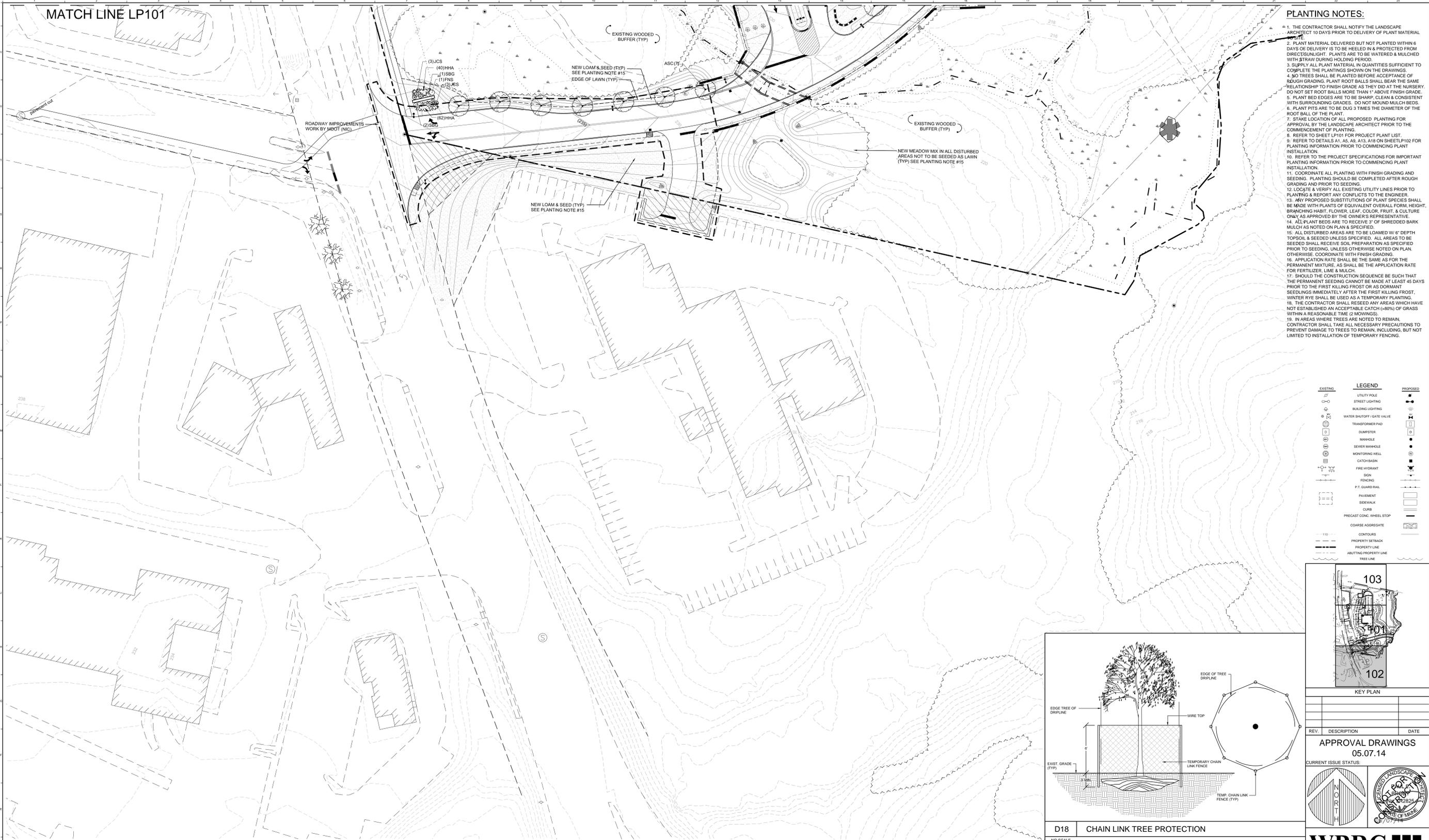
CHECKED BY: PFB

No. 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MATCH LINE LP101

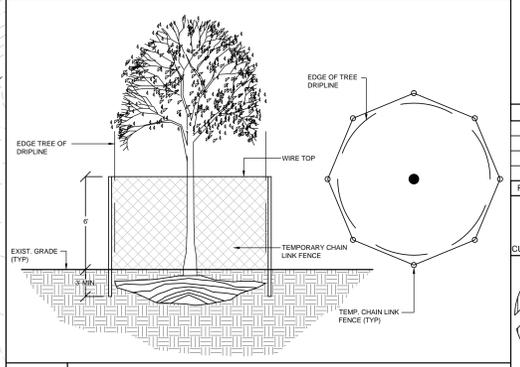
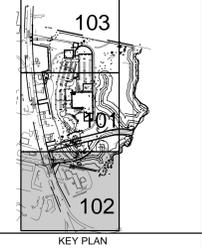
PLANTING NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 10 DAYS PRIOR TO DELIVERY OF PLANT MATERIAL.
2. PLANT MATERIAL DELIVERED BUT NOT PLANTED WITHIN 6 DAYS OF DELIVERY IS TO BE HELED IN & PROTECTED FROM DIRECT SUNLIGHT. PLANTS ARE TO BE WATERED & MULCHED WITH STRAW DURING HOLDING PERIOD.
3. SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
4. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF REACH GRADING. PLANT ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS THEY DID AT THE NURSERY. DO NOT SET ROOT BALLS MORE THAN 1" ABOVE FINISH GRADE.
5. PLANT BED EDGES ARE TO BE SHARP, CLEAR & CONSISTENT WITH SURROUNDING GRADES. DO NOT MOUND MULCH BEDS.
6. PLANT PITS ARE TO BE DUG 3 TIMES THE DIAMETER OF THE ROOT BALL OF THE PLANT.
7. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
8. REFER TO SHEET LP101 FOR PROJECT PLANT LIST.
9. REFER TO DETAILS A1, A5, A9, A13, A18 ON SHEET LP102 FOR PLANTING INFORMATION PRIOR TO COMMENCING PLANT INSTALLATION.
10. REFER TO THE PROJECT SPECIFICATIONS FOR IMPORTANT PLANTING INFORMATION PRIOR TO COMMENCING PLANT INSTALLATION.
11. COORDINATE ALL PLANTING WITH FINISH GRADING AND SEEDING. PLANTING SHOULD BE COMPLETED AFTER ROUGH GRADING AND PRIOR TO SEEDING.
12. LOCATE & VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING & REPORT ANY CONFLICTS TO THE ENGINEER.
13. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT, & CULTURE ONLY AS APPROVED BY THE OWNER'S REPRESENTATIVE.
14. ALL PLANT BEDS ARE TO RECEIVE 3" OF SHREDDED BARK MULCH AS NOTED ON PLAN & SPECIFIED.
15. ALL DISTURBED AREAS ARE TO BE LOAMED W/ 8" DEPTH TOPSOIL & SEEDED UNLESS SPECIFIED. ALL AREAS TO BE SEEDED SHALL RECEIVE SOIL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN. OTHERWISE, COORDINATE WITH FINISH GRADING.
16. APPLICATION RATE SHALL BE THE SAME AS FOR THE PERMANENT MIXTURE, AS SHALL BE THE APPLICATION RATE FOR FERTILIZER, LIME & MULCH.
17. SHOULD THE CONSTRUCTION SEQUENCE BE SUCH THAT THE PERMANENT SEEDING CANNOT BE MADE AT LEAST 45 DAYS PRIOR TO THE FIRST KILLING FROST OR AS DORMANT SEEDLINGS IMMEDIATELY AFTER THE FIRST KILLING FROST, WINTER RYE SHALL BE USED AS A TEMPORARY PLANTING.
18. THE CONTRACTOR SHALL RESEED ANY AREAS WHICH HAVE NOT ESTABLISHED AN ACCEPTABLE CATCH (>80%) OF GRASS WITHIN A REASONABLE TIME (2 MOVINGS).
19. IN AREAS WHERE TREES ARE NOTED TO REMAIN, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO TREES TO REMAIN, INCLUDING, BUT NOT LIMITED TO INSTALLATION OF TEMPORARY FENCING.



LEGEND

EXISTING	PROPOSED
UTILITY POLE	UTILITY POLE
STREET LIGHTING	STREET LIGHTING
BUILDING LIGHTING	BUILDING LIGHTING
WATER SHUTOFF / GATE VALVE	WATER SHUTOFF / GATE VALVE
TRANSFORMER PAD	TRANSFORMER PAD
DIAPHRAGM	DIAPHRAGM
SEWER MANHOLE	SEWER MANHOLE
MONITORING WELL	MONITORING WELL
CATCH BASIN	CATCH BASIN
FIRE HYDRANT	FIRE HYDRANT
SGN	SGN
FENCING	FENCING
FT. GUARD RAIL	FT. GUARD RAIL
PAVEMENT	PAVEMENT
SEWERWALK	SEWERWALK
CURB	CURB
PRECAST CONC. WHEEL STOP	PRECAST CONC. WHEEL STOP
COARSE AGGREGATE	COARSE AGGREGATE
CONTOURS	CONTOURS
PROPERTY SETBACK	PROPERTY SETBACK
PROPERTY LINE	PROPERTY LINE
ARBITRARY PROPERTY LINE	ARBITRARY PROPERTY LINE
TREE LINE	TREE LINE



D18 CHAIN LINK TREE PROTECTION

KEY PLAN

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

WBRC ARCHITECTS + ENGINEERS

O'Brien Atkins
Architectural Engineers

JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

SITE PLANTING PLAN

PROJECT: AUGUSTA, MAINE

SHEET FILE: 375200 LP101.DWG

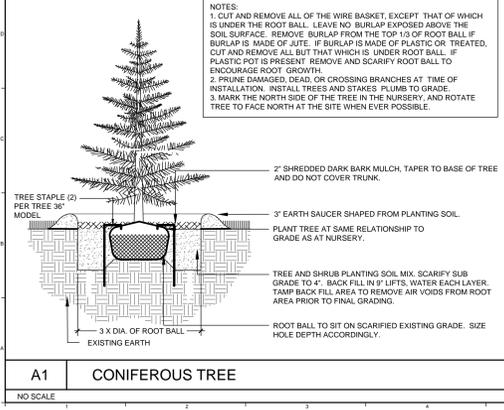
PROJECT NO: 3752.00

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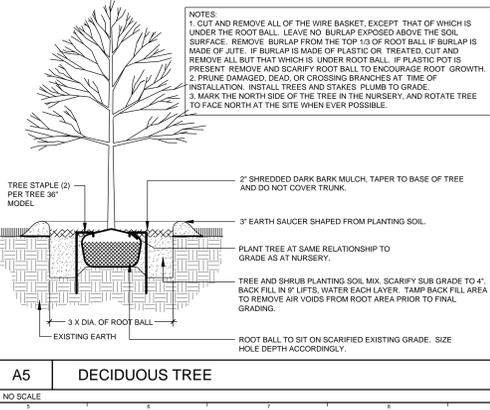
PROJECT MANAGER: MLW

DESIGN BY: JWB

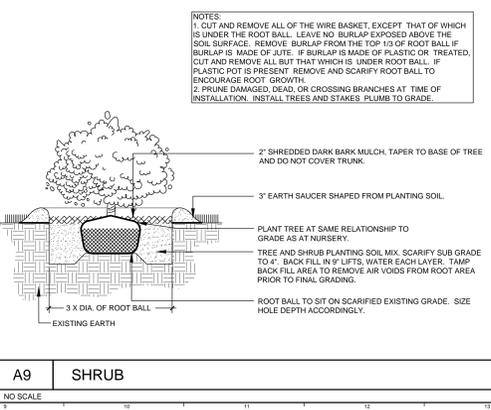
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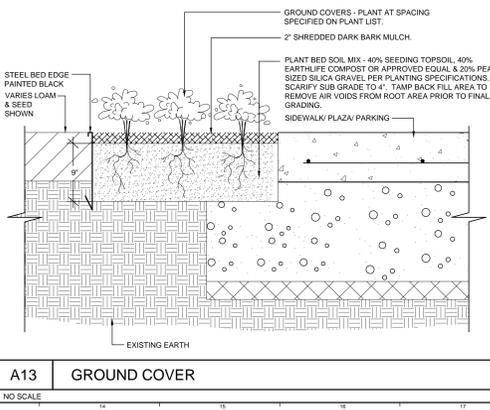
A1 CONIFEROUS TREE



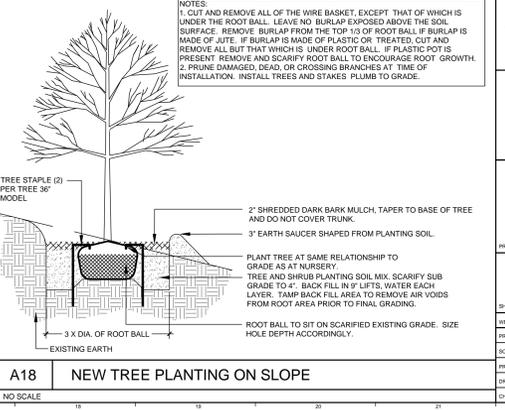
A5 DECIDUOUS TREE



A9 SHRUB



A13 GROUND COVER



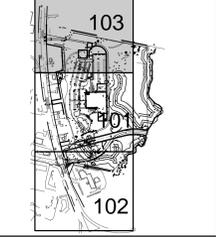
A18 NEW TREE PLANTING ON SLOPE

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 14:30:00 15:25:00

PLANTING NOTES:

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3. SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
4. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. PLANT ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS THEY DID AT THE NURSERY. DO NOT SET ROOT BALLS MORE THAN 1" ABOVE FINISH GRADE.
5. PLANT BED EDGES ARE TO BE SHARP, CLEAN & CONSISTENT WITH SURROUNDING GRADES. DO NOT MOUND MULCH BEDS.
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19. IN AREAS WHERE TREES ARE NOTED TO REMAIN, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO TREES TO REMAIN, INCLUDING, BUT NOT LIMITED TO INSTALLATION OF TEMPORARY FENCING.

EXISTING	LEGEND	PROPOSED
○	UTILITY POLE	●
○	STREET LIGHTING	○
○	BUILDING LIGHTING	○
○	WATER SHUTOFF / GATE VALVE	○
○	TRANSFORMER PAD	○
○	DUMPSTER	○
○	MANHOLE	○
○	SEWER MANHOLE	○
○	MONITORING WELL	○
○	CATCH BASIN	○
○	FIRE HYDRANT	○
○	SIGN	○
○	FENCING	○
○	PIT GUARD RAIL	○
○	PAVEMENT	○
○	SEWER MAIN	○
○	CURB	○
○	PRECAST CONC. WHEEL STOP	○
○	COARSE AGGREGATE	○
○	CONTOURS	○
○	PROPERTY SETBACK	○
○	PROPERTY LINE	○
○	ARBITRARY PROPERTY LINE	○
○	TREE LINE	○



REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE PLANTING PLAN

SHEET TITLE:	375200 LP101.DWG
PROJECT NO.:	3752.00
SCALE:	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	JWB
CHECKED BY:	PFB



No. 07-201 1:15:25am
 C:\Users\jwb\OneDrive\Documents\Projects\PN230113\Drawings\LP101.dwg c:\d:\jwb\

MATCH LINE LP101



STUDY POINT #1
 Q2 = 1.73 CFS
 Q10 = 9.21 CFS
 Q25 = 14.54 CFS
 Q100 = 23.32 CFS

STUDY POINT #2
 Q2 = 7.34 CFS
 Q10 = 20.38 CFS
 Q25 = 28.27 CFS
 Q100 = 40.56 CFS

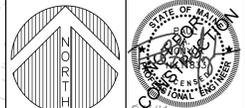
PLAN REFERENCE:
 1. THE BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A SITE SURVEY PROVIDED BY MORRIS LAND SURVEYORS, PROJECT # AJ152K, DATED 01-18-2012.
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 3. ELEVATION INFORMATION IS BASED ON A SURVEY PROVIDED BY SHYKA, SHEPPARD, & GARSTER LAND SURVEYORS, DATED: JANUARY 18, 2013

LEGEND
 - - - FLOW LINES
 - - - SUBCATCHMENT BOUNDARY
 ○ SUBCATCHMENT LABEL

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

PRE-STORMWATER PLAN

SHEET TITLE:	375200 SW101.DWG
PROJECT NO:	3752.00
SCALE:	1"=80'
PROJECT MANAGER:	MLW
DRAWN BY:	CHP
CHECKED BY:	PAM
SHEET NO:	SW101

No. 05_2014_0011_0011_0011.dwg
 4:30:30 PM 5/7/2014
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STUDY POINT #1
 Q2 = 0.97 CFS
 Q10 = 6.52 CFS
 Q25 = 10.75 CFS
 Q100 = 17.88 CFS

STUDY POINT #2
 Q2 = 3.01 CFS
 Q10 = 15.79 CFS
 Q25 = 27.56 CFS
 Q100 = 39.85 CFS

PLAN REFERENCE:
 1. THE BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A SITE SURVEY PROVIDED BY MORRIS LAND SURVEYORS, PROJECT # AJ150K, DATED 01-18-2012.
 2. WETLANDS, PIP & STREAM CENTERLINE GIS INFORMATION PROVIDED BY CES INC. RECEIVED 03-14-2012.
 3. ELEVATION INFORMATION IS BASED ON A SURVEY PROVIDED BY SHYKA, SHEPPARD, & GARSTER LAND SURVEYORS, DATED: JANUARY 18, 2013.

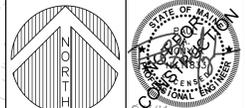
LEGEND

- FLOW LINES
- - - SUBCATCHMENT BOUNDARY
- SUBCATCHMENT LABEL

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE
 POST-STORMWATER PLAN

SHEET TITLE:	375200 SW101.DWG
PROJECT NO.:	3752.00
SCALE:	1"=80'
PROJECT MANAGER:	MLW
DRAWN BY:	CHP
CHECKED BY:	PAM
SHEET NO.:	SW102

Map 05_07_14.dwg
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