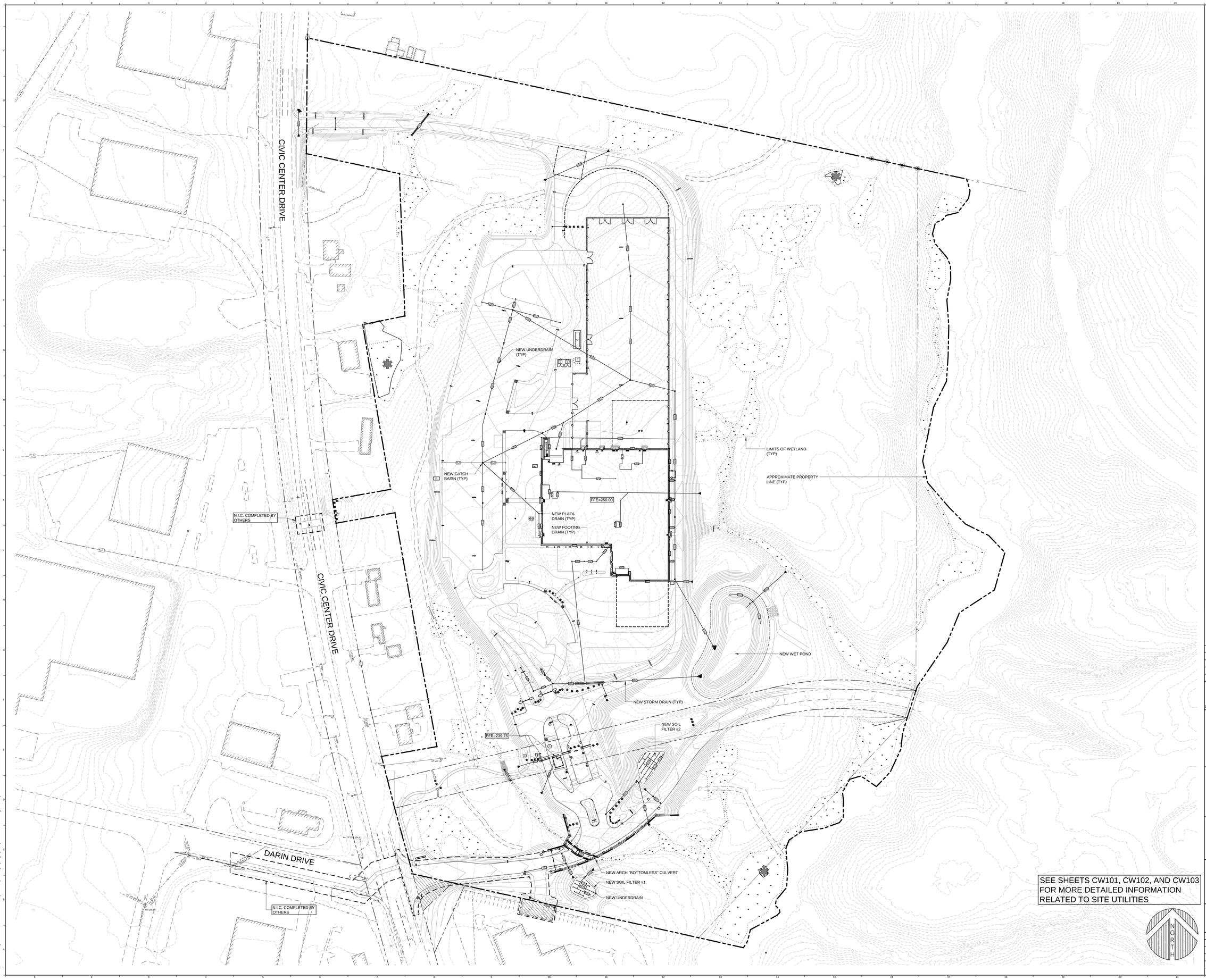

SEE SHEETS CW101, CW102, AND CW103 FOR MORE DETAILED INFORMATION RELATED TO SITE UTILITIES

PLAN REFERENCE:

1. THE BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A SITE SURVEY PROVIDED BY MORIN LAND SURVEYORS, PROJECT # AU102K, DATED 01-18-2012.

2. WETLANDS, PVP & STREAM CENTERLINE GIS INFORMATION PROVIDED BY CES INC. RECEIVED 03-14-2012.

3. THE EXISTING CONDITIONS INFORMATION SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON A SURVEY COMPLETED BY SHYKA, SHEPPARD, & GARSTER LAND SURVEYORS. THE SITE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING ANY SITE CLEARING, UTILITY OR EARTHWORK ACTIVITIES.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
G	GAS SERVICE / MAIN	NGAS
W	WATER SERVICE / MAIN	
SD	STORM DRAIN	NSD
	UNDERDRAIN	NUD
	FOOTING DRAIN	NFD
	CLEANOUT	
SS	SANITARY SEWER	NSS
UE	UNDERGROUND ELECTRIC	NUE
	UNDERGROUND SECONDARY	NUS
	UNDERGROUND PRIMARY	NUP
OE	AERIAL ELEC. / PRIMARY	NAP
	FIBER OPTIC	NFO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	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 OVERALL STORM DRAINAGE PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 SP101.DWG
PROJECT No:	3752.00
SCALE:	1"=60'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	ARB
GRAPHIC SCALE:	0" 1'
SHEET No:	CW100

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May 07, 2014 - 10:21am
N:\3701-3800\375200 Joint Forces Headquarters\2 Design\Dwgs\SP\375200 SP101.dwg chris.sparenti

MATCH LINE CW103

NEW 15"Ø TYPE 'C' UNDERDRAIN (TYP)
NEW 4'Ø CB#5 RIM=246.90± IE(UD)=243.90 OE(15")=240.50 SUMP=238.50
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
NEW CLEANOUT (TYP) IE=245.05
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
SEE SHEET CW301 FOR STORM LINE PLAN AND PROFILE
NEW 6'Ø DMH#1 RIM=246.00 IE(12")=238.2 IE(21")=238.2 OE(24")=238.1 SUMP=236.1
NEW 4'Ø CB#6 RIM=246.95± IE(UD)=243.95 OE(15")=241.05 SUMP=239.05
NEW 21"Ø HDPE STORM DRAIN
NEW 4'Ø CB#9 RIM=246.25± IE(21")=238.70 OE(21")=238.60 SUMP=236.60
NEW 15"Ø TYPE 'C' UNDERDRAIN (TYP)
NEW 21"Ø HDPE STORM DRAIN
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
NEW 4'Ø CB#7 RIM=245.50± IE(UD)=242.25 IE(10")=240.25 IE(15")=240.25 OE(21")=240.15 SUMP=238.15
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
NEW 15"Ø TYPE 'C' UNDERDRAIN (TYP)
NEW 4'Ø CB#8 RIM=246.85± IE(UD)=242.25 OE(15")=240.95 SUMP=238.95
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
N.I.C. COMPLETED BY OTHERS
NEW CLEANOUT (TYP) IE=245.82
NEW 4'Ø CB#10 RIM=245.5 OE(12")=239.75 SUMP=237.75
NEW 12"Ø HDPE STORM DRAIN
NEW SANITARY SEWER SHOWN FOR REFERENCE ONLY, SEE SHEET CU101 FOR ADDITIONAL INFORMATION
SEE MECHANICAL DRAWINGS FOR LIMITS OF RADON VENT PIPING LOCATED WITHIN THE BUILDING FOOTPRINT
NEW 10"Ø SDR 35 PVC STORM DRAIN
NEW 8"Ø PLAZA DRAIN #2 RIM=249.9 IE(8")=244.4 OE(10")=244.3
NEW 8"Ø SDR 35 PVC STORM DRAIN
NEW 8"Ø PLAZA DRAIN #1 RIM=249.9 OE(8")=244.8
SEE SHEET CW302 FOR STORM LINE PLAN AND PROFILE
NEW PLAZA DRAIN #3 RIM=249.75 IE(4")=244.85 OE(6")=244.75
NEW PLAZA DRAIN #4 RIM=249.75 IE(6")=244.45 OE(6")=244.45
NEW PLAZA DRAIN #5 RIM=249.75 IE(6")=244.15 OE(10")=244.15
NEW 10"Ø HDPE STORM DRAIN
NEW UNDERGROUND ELECTRIC SHOWN FOR REFERENCE ONLY, SEE SHEET ES101 FOR ADDITIONAL INFORMATION
NEW 6"Ø PVC FOUNDATION DRAIN OUTLET PIPE (TYP)
NEW 8'Ø CB#14 RIM=248.20 IE(42")=232.35 OE(42")=232.25 SUMP=229.25
NEW 42"Ø HDPE STORM DRAIN
NEW 4'Ø CB#18 RIM=243.75 IE(12")=236.13 OE(18")=236.03 SUMP=234.03
NEW 18"Ø HDPE STORM DRAIN
NEW 4" THICK RIGID INSULATION (TYP)
NEW 21"Ø HDPE STORM DRAIN
NEW 4'Ø CB#20 RIM=239.60 IE(10")=236.43 IE(18")=233.50 OE(21")=233.40 SUMP=231.40
NEW 18"Ø HDPE STORM DRAIN
NEW 5'Ø CB#19 RIM=243.50 IE(18")=235.41 IE(12")=234.28 OE(18")=234.18 SUMP=232.18
NEW 4'Ø CB#16 RIM=241.8± IE(12")=234.94 OE(12")=234.72 SUMP=232.72
NEW SOIL FILTER #2
NEW 12"Ø HDPE STORM DRAIN
NEW 4'Ø CB#25 RIM=234.80 OE(12")=228.6 SUMP=226.6
NEW 12"Ø HDPE STORM DRAIN
NEW 4'Ø CB#17 RIM=241.8± OE(12")=236.50 SUMP=234.50
NEW CB#15 RIM=241.8± OE(12")=235.50 SUMP=233.50
SEE SHEET CW302 FOR STORM LINE PLAN AND PROFILE
NEW PLAZA DRAIN #6 RIM=238.90 IE(6")=235.90
NEW 18"Ø HDPE INSULATED CULVERT
NEW 4"Ø SDR 35 PVC ROOF DRAIN OUTLET
NEW 24"Ø HDPE STORM DRAIN
NEW 18"Ø HDPE STORM DRAIN
NEW 8'Ø CB#3 RIM=247.75 IE(18")=240.2 IE(24")=237.0 OE(36")=236.9 SUMP=234.9
NEW 6'Ø CB#11 RIM=247.75 IE(36")=235.7 OE(36")=235.6 SUMP=233.6
NEW 36"Ø HDPE STORM DRAIN
SEE SHEET CW301 FOR STORM LINE PLAN AND PROFILE
NEW 24"Ø HDPE STORM DRAIN
NEW UNDERGROUND COMMUNICATIONS SHOWN FOR REFERENCE ONLY, SEE SHEET ES101 FOR ADDITIONAL INFORMATION
NEW 6"Ø SDR 35 PVC STORM DRAIN, TIE INTO NEW 36" HDPE STORM DRAIN PROVIDE ALL NECESSARY FITTINGS
NEW NATURAL GAS LINE SHOWN FOR REFERENCE ONLY, SEE SHEET CU101 FOR ADDITIONAL INFORMATION
NEW 36"Ø HDPE STORM DRAIN
NEW 8'Ø CB#12 RIM=248.75 IE(10"RD)=241.0 IE(36")=234.1 OE(42")=234.0 SUMP=232.00
NEW 42"Ø HDPE STORM DRAIN
NEW INSERT-A-TEE CONNECTION FOR ROOF DRAIN OUTLET INTO STORM DRAIN
NEW 8'Ø CB#13 RIM=248.50 IE(42")=233.5 OE(42")=233.4 SUMP=231.4
NEW 42"Ø HDPE STORM DRAIN
NEW INSERT-A-TEE CONNECTION FOR ROOF DRAIN OUTLET INTO STORM DRAIN
NEW 10"Ø ROOF DRAIN OUTLET OE=242.0
NEW 6"Ø PVC FOUNDATION DRAIN OUTLET PIPE (TYP)
NEW 8"Ø ROOF DRAIN OUTLET OE=243.50
NEW 4"Ø SCH. 20 RIGID, PERF. FOOTING DRAIN (TYP.)
NEW 8"Ø ROOF DRAIN OUTLET OE=244.0
NEW 6"Ø SDR 35 PVC STORM DRAIN
NEW 4"Ø SDR 35 PVC STORM DRAIN
NEW 8"Ø ROOF DRAIN OUTLET OE=245.0
NEW CLEANOUT (TYP.) OE=244.20
NEW 18"Ø HDPE OUTLET PIPE (TYP) OE=225.00
NEW 4'Ø POND OUTLET CONTROL STRUCTURE RIM=232.40 IE(6")=228.00 IE=225.90 OE=225.80
NEW GATE VALVE
NEW 6"Ø TYPE 'B' UNDERDRAIN (TYP)
NEW WET POND
NEW 6"Ø TYPE 'B' UNDERDRAIN W/ END CAPS (TYP.)
NEW SOIL FILTER OUTLET CONTROL STRUCTURE #1 RIM=226.00 IE(6"UD)=221.5 OE(12")=221.4
NEW 12"Ø HDPE OUTLET PIPE (TYP)
NEW 4'Ø CB#21a RIM=231.70 OE(12")=226.40 SUMP=224.40
NEW 4'Ø CB#21 RIM=231.95 OE(12")=228.75 SUMP=224.75

OE=238.00
OE=242.50
OE=231.0
OE=231.0
OE=235.00
OE=226.50
OE=226.25
IE=232.25
OE=232.00
OE=233.00

48" pine
20" oak
20" pine
18" pine
30" pine

UP with UE
UT box
OHW
UET

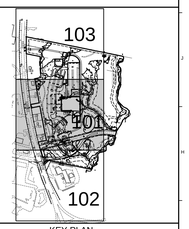
MATCH LINE CW102

UTILITY NOTES:

1. SEE NOTES E1 THROUGH U8 ON SHEET C-001 FOR ADDITIONAL UTILITY INFORMATION.
2. SITE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY PROPOSED WORK.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
GAS	GAS SERVICE / MAIN	
W	WATER SERVICE / MAIN	
SD	STORM DRAIN	NSD
	UNDERDRAIN	NUD
	FOOTING DRAIN	NFD
	CLEANOUT	
SS	SANITARY SEWER	NSS
UE	UNDERGROUND ELECTRIC	NUE
	UNDERGROUND SECONDARY	NUS
	UNDERGROUND PRIMARY	NUP
OE	AERIAL ELEC. / PRIMARY	NAP
	FIBER OPTIC	NFO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

REV.	DESCRIPTION	DATE
1	PER DEP COMMENTS	01-03-2014

APPROVAL DRAWINGS
05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE STORM DRAINAGE PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 CW101.DWG
PROJECT No.	3752.00
SCALE:	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	ARB

GRAPHIC SCALE: 0" 1"

SHEET No. CW101

May 07, 2014 – 10:22am
L:\3701-3800\3752\00 Joint Forces Headquarters\2 Design\Dwgs\Site\375200 CW101.dwg chris.garnett

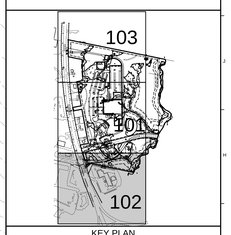
UTILITY NOTES:

1. SEE NOTES E1 THROUGH U8 ON SHEET C-001 FOR ADDITIONAL UTILITY INFORMATION.

2. SITE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY PROPOSED WORK.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
—G—	GAS SERVICE / MAIN	PG-01
—W—	WATER SERVICE / MAIN	PW-01
—SD—	STORM DRAIN	PSD-01
	UNDERDRAIN	PUD-01
	FOOTING DRAIN	PFD-01
	CLEANOUT	
—SS—	SANITARY SEWER	PSS-01
—UE—	UNDERGROUND ELECTRIC	PUE-01
	UNDERGROUND SECONDARY	PUS-01
	UNDERGROUND PRIMARY	PUP-01
—OE—	AERIAL ELEC. / PRIMARY	PAP-01
	FIBER OPTIC	PFO-01
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

REV.	DESCRIPTION	DATE
1	PER DEP COMMENTS	01-03-2014

APPROVAL DRAWINGS
05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE STORM DRAINAGE PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 CW101.DWG
PROJECT No.	3752.00
SCALE	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	ARB

GRAPHIC SCALE: 0" 1"

SHEET No.: CW102

May 07, 2014 – 10:22am
J:\3200-3800\3752\00 Joint Forces Headquarters\2 Design\Dwg\Site\375200 CW101.dwg chris.garrett

May 07, 2014 – 10:23am
I:\J01-300\J3\3200 Joint Forces Headquarters\2_Design\Dwgs\Site\375200 CW101.dwg chris.parent

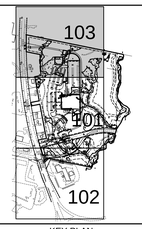
UTILITY NOTES:

1. SEE NOTES E1 THROUGH U8 ON SHEET C-001 FOR ADDITIONAL UTILITY INFORMATION.

2. SITE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY PROPOSED WORK.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
— G —	GAS SERVICE / MAIN	IN-GAS
— W —	WATER SERVICE / MAIN	IN-W
— SD —	STORM DRAIN	IN-SD
	UNDERDRAIN	IN-UD
	FOOTING DRAIN	IN-FD
	CLEANOUT	
— SS —	SANITARY SEWER	IN-SS
— UE —	UNDERGROUND ELECTRIC	IN-UE
	UNDERGROUND SECONDARY	IN-US
	UNDERGROUND PRIMARY	IN-UP
— OE —	AERIAL ELEC. / PRIMARY	IN-EP
	FIBER OPTIC	IN-FO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

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JOINT FORCE
HEADQUARTERS -
PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE STORM
DRAINAGE PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 CW101.DWG
PROJECT No.	3752.00
SCALE:	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	ARB
GRAPHIC SCALE:	0" 1"
SHEET No.	CW103

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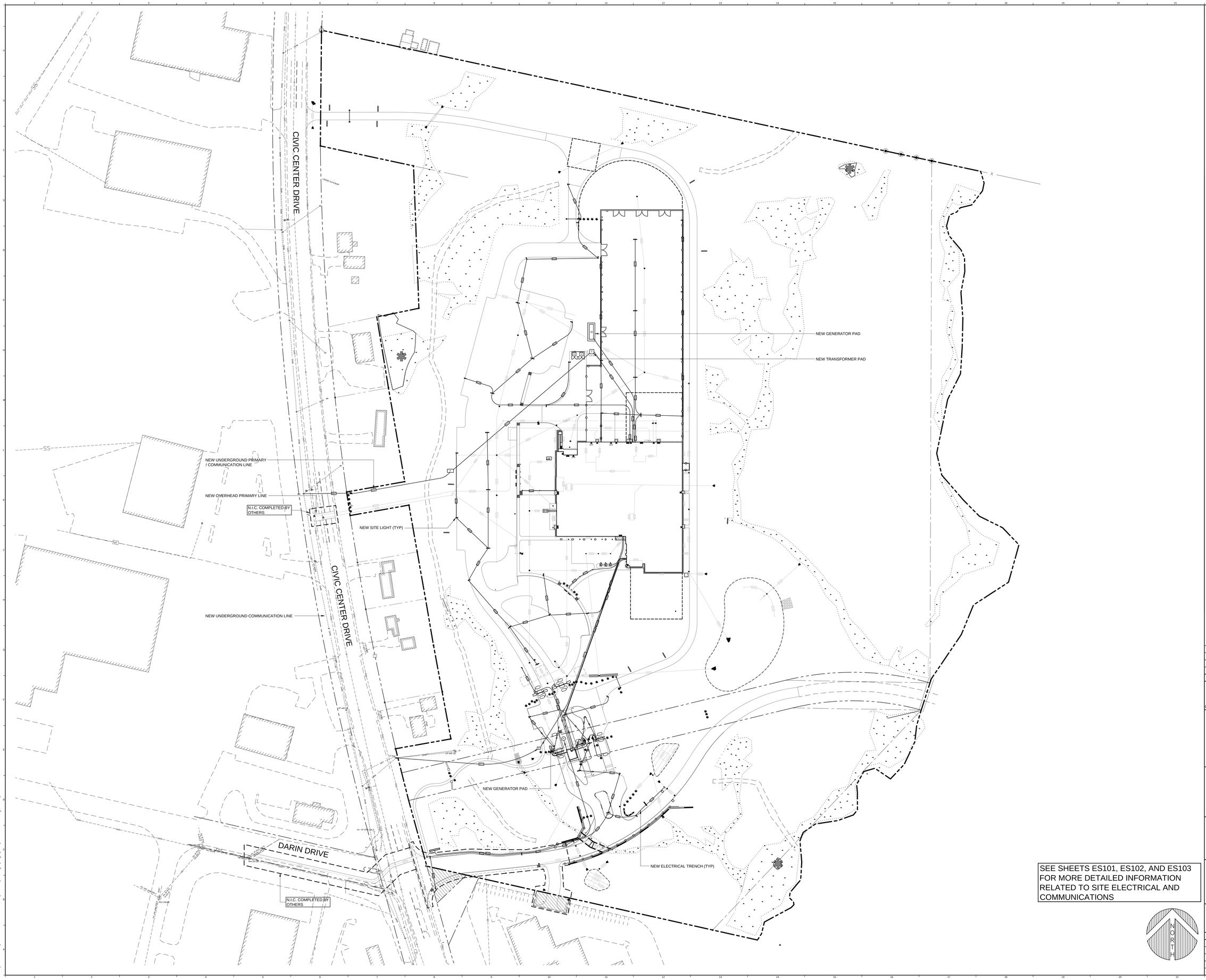

SEE SHEETS ES101, ES102, AND ES103 FOR MORE DETAILED INFORMATION RELATED TO SITE ELECTRICAL AND COMMUNICATIONS

PLAN REFERENCE:

1. THE BOUNDARY INFORMATION SHOWN ON THIS PLAN IS BASED ON A SITE SURVEY PROVIDED BY MORIN LAND SURVEYORS, PROJECT # AU102K, DATED 01-18-2012.

2. WETLANDS, PVP & STREAM CENTERLINE GIS INFORMATION PROVIDED BY CES INC. RECEIVED 03-14-2012.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
G	GAS SERVICE / MAIN	NGAS
W	WATER SERVICE / MAIN	NW
SD	STORM DRAIN	NSD
	UNDERDRAIN	NUD
	FOOTING DRAIN	NFD
	CLEANOUT	
SS	SANITARY SEWER	NSS
UE	UNDERGROUND ELECTRIC	NUE
	UNDERGROUND SECONDARY	NUS
	UNDERGROUND PRIMARY	NUP
OE	AERIAL ELEC. / PRIMARY	NOP
	FIBER OPTIC	NFO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

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10272
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PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE OVERALL ELECTRICAL & COMMUNICATIONS PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 SP101.DWG
PROJECT No.	3752.00
SCALE:	1"=60'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	LJW

GRAPHIC SCALE: 0" 1'

SHEET No. ES100

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MATCH LINE ES103

NEW UNDERGROUND ELECTRIC TRENCH (TYP.) A5 ES501

E5 ES501 NEW UNDERGROUND PRIMARY TRENCH (TYP.)

J1 ES501 NEW ELECTRICAL MANHOLE

NEW UTILITY POLE WITH RISER E13 ES501

N.I.C. COMPLETED BY OTHERS

(2) #8 + (1) #8 GND IN 1"C. FOR POWER AND 1"C. FOR CONTROLS

(2) #12 + (1) #12 GND IN 1"C. FOR POWER AND 1"C. FOR CONTROLS

NEW TRANSFORMER N9 ES501

NEW UNDERGROUND SECONDARY TRENCH (TYP.) A1 ES501

NEW UNDERGROUND GENERATOR ELECTRIC TRINCH(TYP.) A18 ES501

PROVIDE ELECTRICAL PULLBOX FOR FLAG POLE LIGHT CONNECTION (TYP.) N18 ES501

(2) #12 + (1) #12 GND IN 1"C.

(2) #8 + (1) #8 GND IN 1"C. FOR POWER AND 1"C. FOR CONTROLS

NEW FIBER OPTIC TRENCH (TYP.) E9 ES501

NEW CONTROL BOX. REFER TO SECURITY PLANS FOR ADDITIONAL INFORMATION. (TYP.)

(2) 1" CONDUITS FOR POWER + COMMUNICATIONS. POWER WIRING SHALL BE 2 #12 + GND. REFER TO SHEET SEC400 FOR COMMUNICATION CONDUCTOR REQUIREMENTS (TYP. FOR BARRIER GATES)

NEW UNDERGROUND ELECTRIC/COMM TRENCH (TYP.) A9 ES501

NEW ELECTRICAL MANHOLE (TYP) J1 ES501

SEE ELECTRICAL INSET SCALE 1"=10' A11 CP404

A5 ES501 NEW UNDERGROUND ELECTRIC TRENCH (TYP.)

CIVIC CENTER DRIVE

48" pine

20" oak

20" pine

80" pine

18" pine

MATCH LINE ES102

UTILITY NOTES:

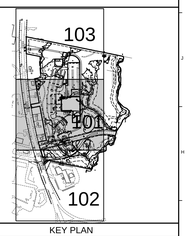
1. SEE NOTES E1 THROUGH U8 ON SHEET C-001 FOR ADDITIONAL UTILITY INFORMATION.

2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY PROPOSED WORK.

3. MAINTAIN 6' SEPARATION BETWEEN ELECTRIC & GAS LINES. WHERE ELECTRIC AND GAS MUST CROSS, DO SO AS CLOSE TO 90° AS POSSIBLE. PROVIDE 1' VERTICAL SEPARATION & ENCASE THE ELECTRICAL TRENCH IN CONCRETE FOR 10 FEET ON EITHER SIDE OF CROSSING.

LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GED BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
—G—	GAS SERVICE / MAIN	GAS
—W—	WATER SERVICE / MAIN	WW
—SD—	STORM DRAIN	NSD
	UNDERDRAIN	NUD
	FOOTING DRAIN	NFD
	CLEANOUT	
—SS—	SANITARY SEWER	NSS
—UE—	UNDERGROUND ELECTRIC	NUE
	UNDERGROUND SECONDARY	NUS
	UNDERGROUND PRIMARY	NUP
—OE—	AERIAL ELEC. / PRIMARY	NAP
	FIBER OPTIC	NFO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

NORTH

STATE OF MAINE LICENSED PROFESSIONAL ENGINEER 9272 05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SHEET TITLE: SITE ELECTRICAL & COMMUNICATIONS PLAN

WBRC CAD FILE:	375200 ES101.DWG
PROJECT No.	3752.00
SCALE:	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	LJW

GRAPHIC SCALE: 0" 1"

SHEET No. ES101

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May 07, 2014 – 10:40am
J:\375\-3000\375200 Joint Forces Headquarters\3 Design\Dwgs\Site\375200 ES101.dwg chris.parent

UTILITY NOTES:

1. SEE NOTES E1 THROUGH U8 ON SHEET C-001 FOR ADDITIONAL UTILITY INFORMATION.

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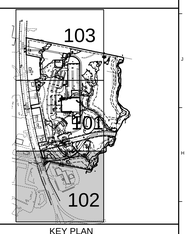
LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
	SIDEWALK	
	CONCRETE PAD/LOADING AREA	
	HEAVY DUTY PAVEMENT	
	SLOPED GRANITE CURB	
	HOT MIX ASPHALT CURB	
	PRECAST CONC. WHEEL STOP	
	GEO BLOCK RETAINING WALL	
	STONE MAINTENANCE EDGE	
G	GAS SERVICE / MAIN	GAS
W	WATER SERVICE / MAIN	WAT
SD	STORM DRAIN	SDD
	UNDERDRAIN	SUD
	FOOTING DRAIN	NFD
	CLEANOUT	
SS	SANITARY SEWER	SSS
UE	UNDERGROUND ELECTRIC	NUB
	UNDERGROUND SECONDARY	NUS
	UNDERGROUND PRIMARY	NUP
OE	AERIAL ELEC. / PRIMARY	NOP
	FIBER OPTIC	NFO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE ELECTRICAL & COMMUNICATIONS PLAN

SHEET TITLE:

WBRC CAD FILE:	375200 ES101.DWG
PROJECT No.	3752.00
SCALE	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	LJW

GRAPHIC SCALE: 0" 1"

SHEET No.: ES102

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J:\3700-3800\3752\00 Joint Forces Headquarters\2 Design\Dwg\Site\375200 ES101.dwg chris.parent

May 07, 2014 – 10:41am
L:\3701-3800\375200 Joint Forces Headquarters\2 Design\Dwgs\Site\375200 ES101.dwg chris.parent

UTILITY NOTES:

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LEGEND

EXISTING		PROPOSED
	UTILITY POLE	
	STREET LIGHTING	
	GUY WIRE	
	WATER SHUTOFF / GATE VALVE	
	TRANSFORMER PAD	T
	DUMPSTER	D
	GENERATOR PAD	G
	DRAIN MANHOLE	
	SEWER MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	SIGN	
	FENCING	
	P.T. GUARD RAIL	
	PAVEMENT	
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	GEO BLOCK RETAINING WALL	
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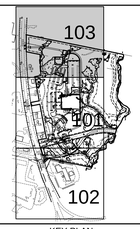
—G—	GAS SERVICE / MAIN	GAS
—W—	WATER SERVICE / MAIN	WW
—SD—	STORM DRAIN	SDD
	UNDERDRAIN	UD
	FOOTING DRAIN	FD
	CLEANOUT	
—SS—	SANITARY SEWER	SS
—UE—	UNDERGROUND ELECTRIC	UE
	UNDERGROUND SECONDARY	US
	UNDERGROUND PRIMARY	UP
—OE—	AERIAL ELEC. / PRIMARY	AP
	FIBER OPTIC	FO
	PROPERTY SETBACK	
	PROPERTY LINE	
	ABUTTING PROPERTY LINE	
	LANDSCAPE BOULDER	
	TREE LINE	



KEY PLAN

REV.	DESCRIPTION	DATE

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PROJECT: AUGUSTA, MAINE

SHEET TITLE: SITE ELECTRICAL & COMMUNICATIONS PLAN

WBRC CAD FILE:	375200 ES101.DWG
PROJECT No.	3752.00
SCALE:	1"=30'
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	LJW
GRAPHIC SCALE:	0" 1"
SHEET No.	ES103

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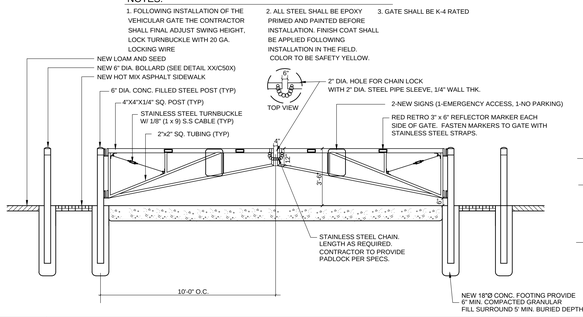
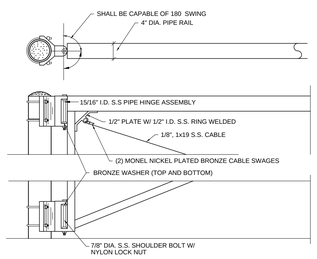
NOTES:
1. FOLLOWING INSTALLATION OF THE VEHICULAR GATE THE CONTRACTOR SHALL FINAL ADJUST SWING HEIGHT, LOCK TURNBUCKLE WITH 20 GA. LOCKING WIRE
2. ALL STEEL SHALL BE EPOXY PRIMED AND PAINTED BEFORE INSTALLATION. FINISH COAT SHALL BE APPLIED FOLLOWING INSTALLATION IN THE FIELD. COLOR TO BE SAFETY YELLOW.
3. GATE SHALL BE K-4 RATED

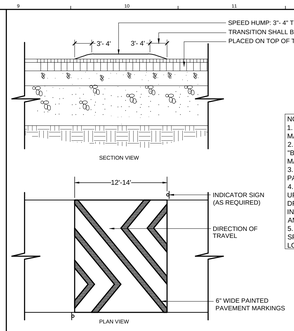




GATE HINGE DETAIL

T1 NEW EMERGENCY ACCESS GATE

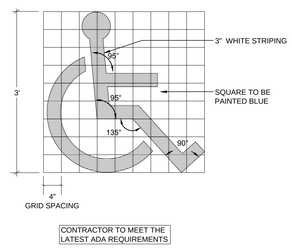
NO SCALE



NOTE:
1. BUILD UP PAVEMENT SURFACE COURSE MATERIAL TO CREATE ELEVATED HUMP.
2. PROVIDE WARNING SIGN WITH THE WORD "BUMP" AT THE START OF THE ELEVATED MATERIAL.
3. SPEED HUMP MUST BE INDICATED WITH PAVEMENT MARKINGS.
4. THE HUMP SHOULD BE SKEWED ON THE UPGRADIENT SIDE OF THE HUMP TO FORCE DRAINAGE TO A ROADWAY DITCH. IF A CURB IS IN USE, PROVIDE A 1' GAP BETWEEN THE HUMP AND THE FACE OF THE CURB.
5. TYPICAL SPACING BETWEEN SUCCESSIVE SPEED HUMPS IS 350' TO 550' (SEE PLAN LOCATIONS.)

T9 NEW SPEED HUMP

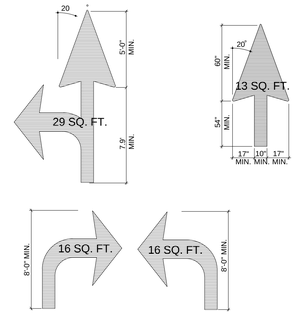
NO SCALE



CONTRACTOR TO MEET THE LATEST ADA REQUIREMENTS

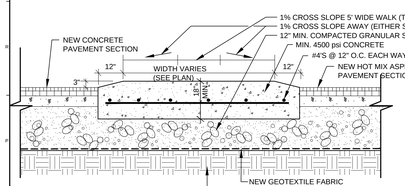
T13 NEW PAINTED ADA PAVEMENT MARKING

NO SCALE



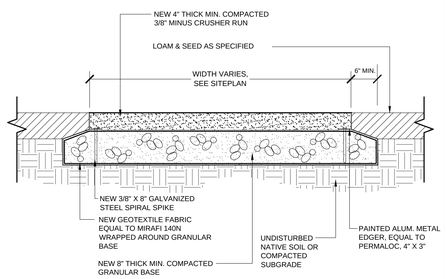
T18 NEW PAINTED PAVEMENT MARKINGS

NO SCALE



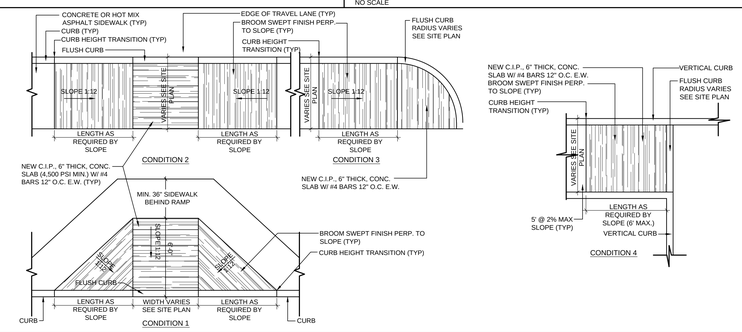
N1 NEW 3" CONCRETE RAISED ISLAND

NO SCALE



N5 NEW STONE DUST WALK

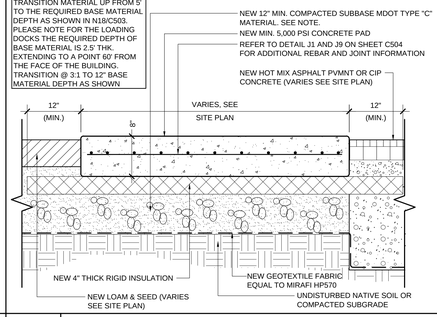
NO SCALE



N9 NEW C.I.P. CONCRETE ADA RAMP

NO SCALE

NOTE: AT ENTRY SLABS TRANSITION MATERIAL UP FROM 5' TO THE REQUIRED BASE MATERIAL DEPTH AS SHOWN IN N18/C503. PLEASE NOTE FOR THE LOADING DOCKS THE REQUIRED DEPTH OF BASE MATERIAL IS 2.5' THK. EXTENDING TO A POINT 60' FROM THE FACE OF THE BUILDING. TRANSITION @ 3:1 TO 12" BASE MATERIAL DEPTH AS SHOWN

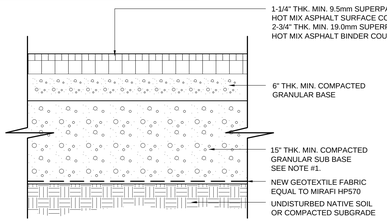


N18 NEW C.I.P. CONCRETE LOADING AREA (ABI#3 - MOV)

NO SCALE

NOTE: (WITH CONSULTATION/VERIFICATION FROM GEOTECHNICAL ENGINEER. PRIOR AUTHORIZATION REQUIRED)
1. AGGREGATE SUB-BASE MAY BE REDUCED TO 6" WHERE EDGE IS ENCOUNTERED NEAR SUBGRADE.
2. SEE LAYOUT PLAN FOR LOCATIONS IF APPLICABLE
3. LOOSE FILL SHOULD BE REMOVED FROM BELOW PAVED AREAS AND REPLACED WITH COMPACTED STRUCTURAL FILL. SEE BORINGS FOR INFORMATION.

NOTE: AGGREGATE SUB-BASE AND BASE MATERIAL MUST BE EXTENDED A MINIMUM OF 24" PAST EDGE OF PAVEMENT WHERE PAVEMENT IS NOT BOUNDED BY CURB, UNLESS OTHERWISE NOTED.



J1 NEW HOT MIX ASPHALT PAVEMENT SECTION

NO SCALE

NOTE: (WITH CONSULTATION/VERIFICATION FROM GEOTECHNICAL ENGINEER. PRIOR AUTHORIZATION REQUIRED)
1. AGGREGATE SUB-BASE MAY BE REDUCED TO 6" WHERE EDGE IS ENCOUNTERED NEAR SUBGRADE.
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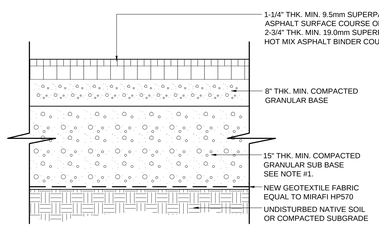
NOTE: AGGREGATE SUB-BASE AND BASE MATERIAL MUST BE EXTENDED A MINIMUM OF 24" PAST EDGE OF PAVEMENT WHERE PAVEMENT IS NOT BOUNDED BY CURB, UNLESS OTHERWISE NOTED.



J5 NEW HEAVY DUTY HOT MIX ASPHALT PAVEMENT SECTION

NO SCALE

~NOT USED~

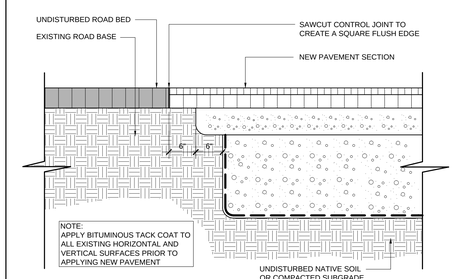
J9

NO SCALE

~NOT USED~

J13

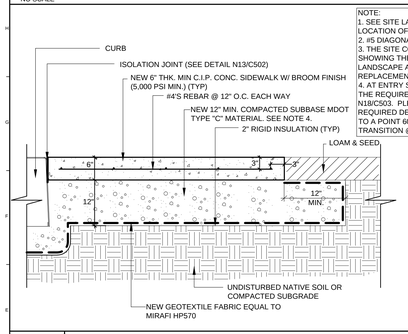
NO SCALE



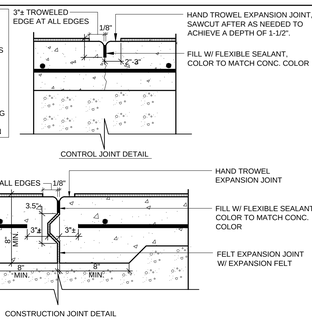
NOTE:
APPLY BITUMINOUS TACK COAT TO ALL EXISTING HORIZONTAL AND VERTICAL SURFACES PRIOR TO APPLYING NEW PAVEMENT

J18 HOT MIX ASPHALT "BUTT JOINT"

NO SCALE

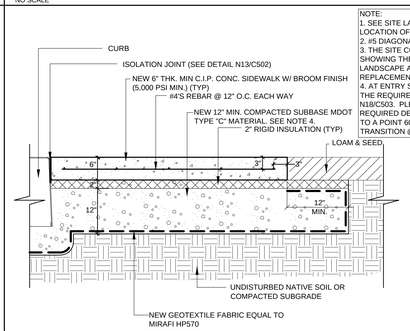


NOTE:
1. SEE SITE LAYOUT & MATERIALS PLAN (CP101) FOR LOCATION OF CONCRETE PLAZAS & SIDEWALKS.
2. #5 DIAGONAL BARS SHALL BE PLACED AT ALL OPENINGS.
3. THE SITE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING THE LOCATION OF CONTROL JOINTS TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO REPLACEMENT OF CONCRETE FOR THE PLAZAS.
4. AT ENTRY SLABS TRANSITION MATERIAL UP FROM 5' TO THE REQUIRED BASE MATERIAL DEPTH AS SHOWN IN N18/C503. PLEASE NOTE FOR THE LOADING DOCKS THE REQUIRED DEPTH OF BASE MATERIAL IS 2.5' THK. EXTENDING TO A POINT 60' FROM THE FACE OF THE BUILDING. TRANSITION @ 3:1 TO 12" BASE MATERIAL DEPTH AS SHOWN



E1 NEW C.I.P. CONCRETE SIDEWALK/PLAZA

NO SCALE



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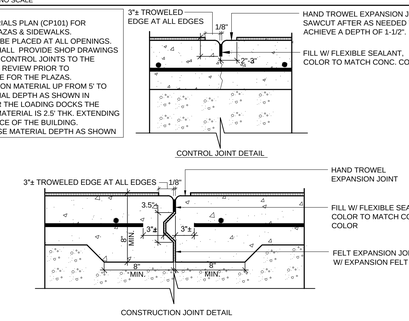
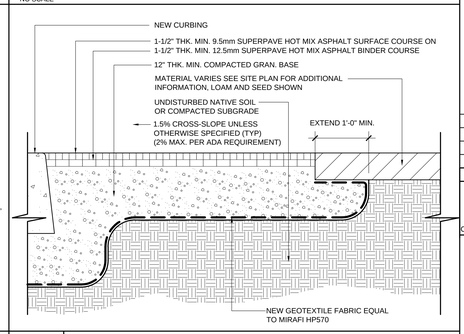


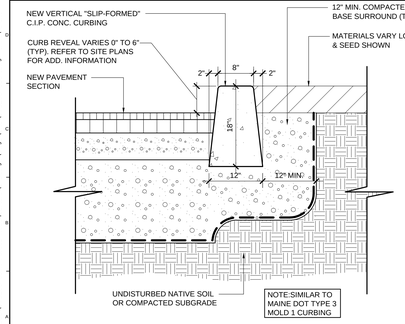
E9 NEW C.I.P. CONCRETE SIDEWALK/PLAZA (ABI#2)

NO SCALE



E18 NEW HOT MIX ASPHALT SIDEWALK

NO SCALE



NOTE:SIMILAR TO MAINE DOT TYPE 3 MOLD 1 CURBING

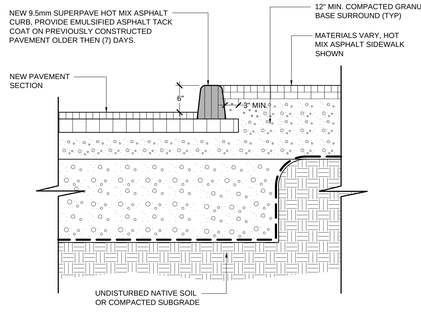
A1 NEW VERTICAL SLIPFORM C.I.P. CONCRETE CURB (ABI#4)

NO SCALE

~NOT USED~

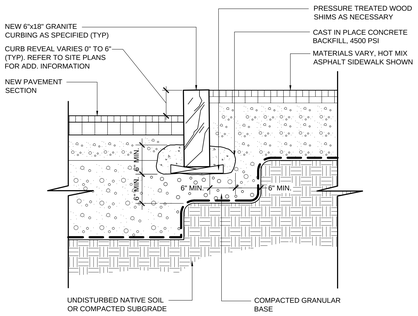
A5

NO SCALE



A9 NEW HOT MIX ASPHALT CURB (BASE BID)

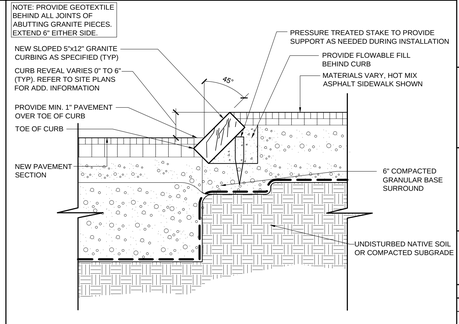
NO SCALE



A13 NEW VERTICAL GRANITE CURB (ABI#5)

NO SCALE

NOTE: PROVIDE GEOTEXTILE BEHIND ALL JOINTS OF ABUTTING GRANITE PIECES. EXTEND 6" EITHER SIDE.



A18 NEW SLOPED GRANITE CURB (BASE BID OR ABI#5)

NO SCALE

REV.	DESCRIPTION	DATE

APPROVAL DRAWINGS
05.07.14

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JOINT FORCE HEADQUARTERS - PHASE I PN, 230113

PROJECT: AUGUSTA, MAINE

SITE DETAILS

SHEET TITLE:	SITE DETAILS
WBRC CAD FILE:	375200 C501.DWG
PROJECT No.	3752.00
SCALE:	NO SCALE
PROJECT MANAGER:	MLW
DRAWN BY:	TAR
CHECKED BY:	ARB
GRAPHIC SCALE:	0" 1"
SHEET No.	C501

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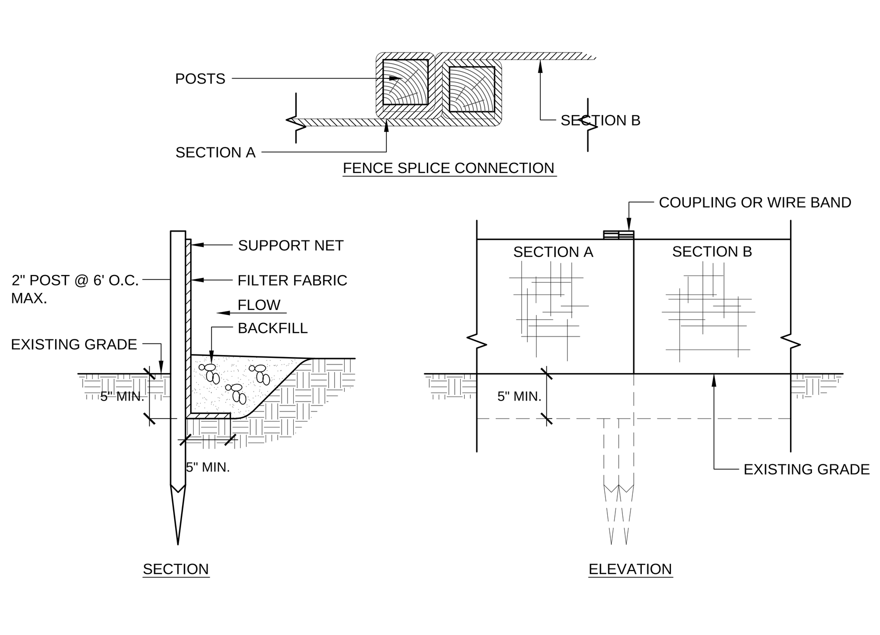
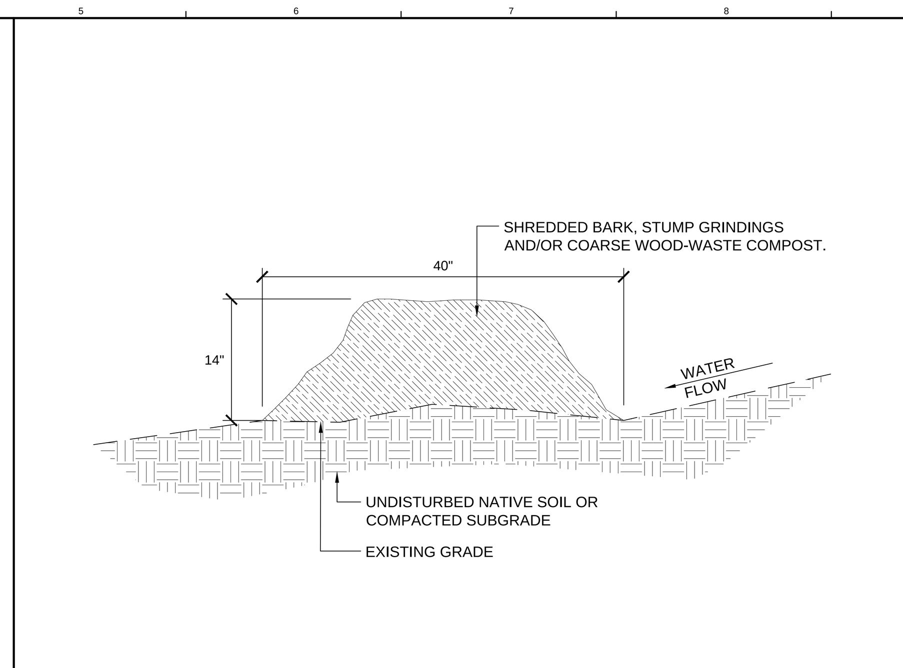
May 07, 2014 - 10:46am
I:\3701-3800\375200 Joint Forces Headquarters\2 Design\Dwgs\Site\375200 C501.dwg chris.parent



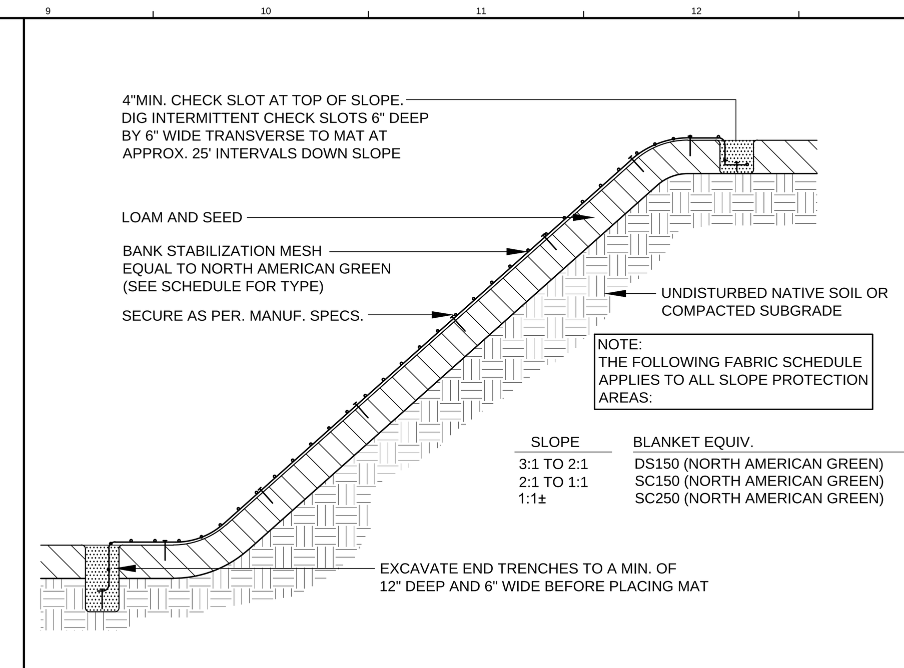
T1 TEMPORARY SILT FENCE

NO SCALE



T5 NEW EROSION CONTROL MIX BERM

NO SCALE



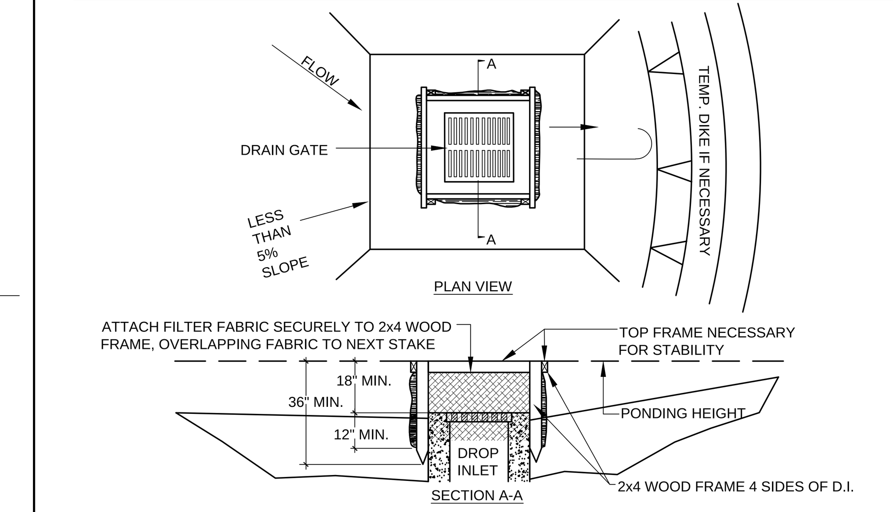
NOTE:
THE FOLLOWING FABRIC SCHEDULE APPLIES TO ALL SLOPE PROTECTION AREAS:

SLOPE	BLANKET EQUIV.
3:1 TO 2:1	DS150 (NORTH AMERICAN GREEN)
2:1 TO 1:1	SC150 (NORTH AMERICAN GREEN)
1:1±	SC250 (NORTH AMERICAN GREEN)

T9 NEW BANK STABILIZATION MESH

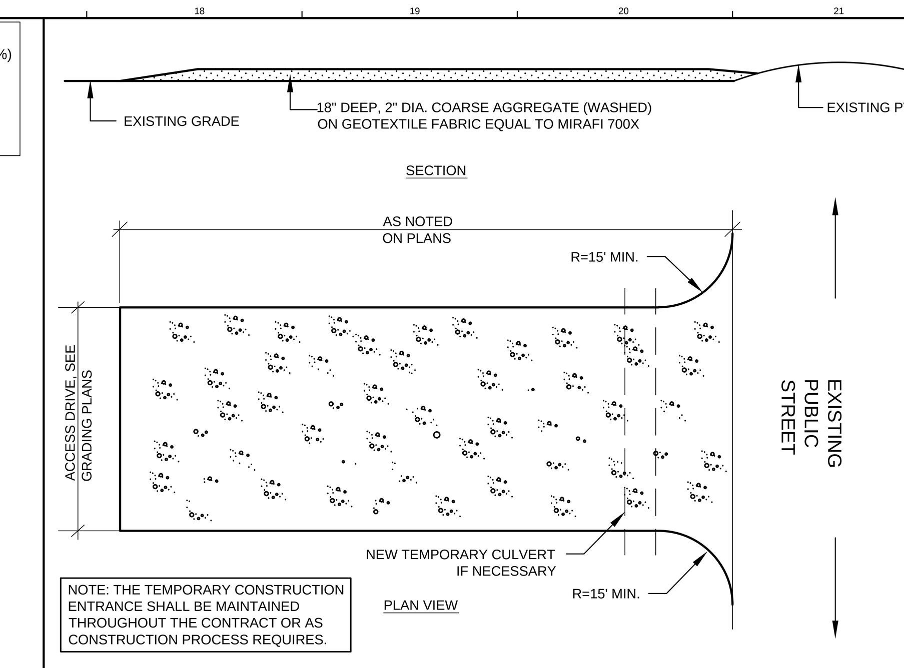
NO SCALE

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%)
2. USE 2"X4" (100X50MM) WOOD OR EQUIVALENT METAL STAKES, 3' (1M MIN. LENGTH)
3. INSTALL 2"X4" (100X50MM) WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMP. DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.



T13 TEMPORARY INLET PROTECTION

NO SCALE

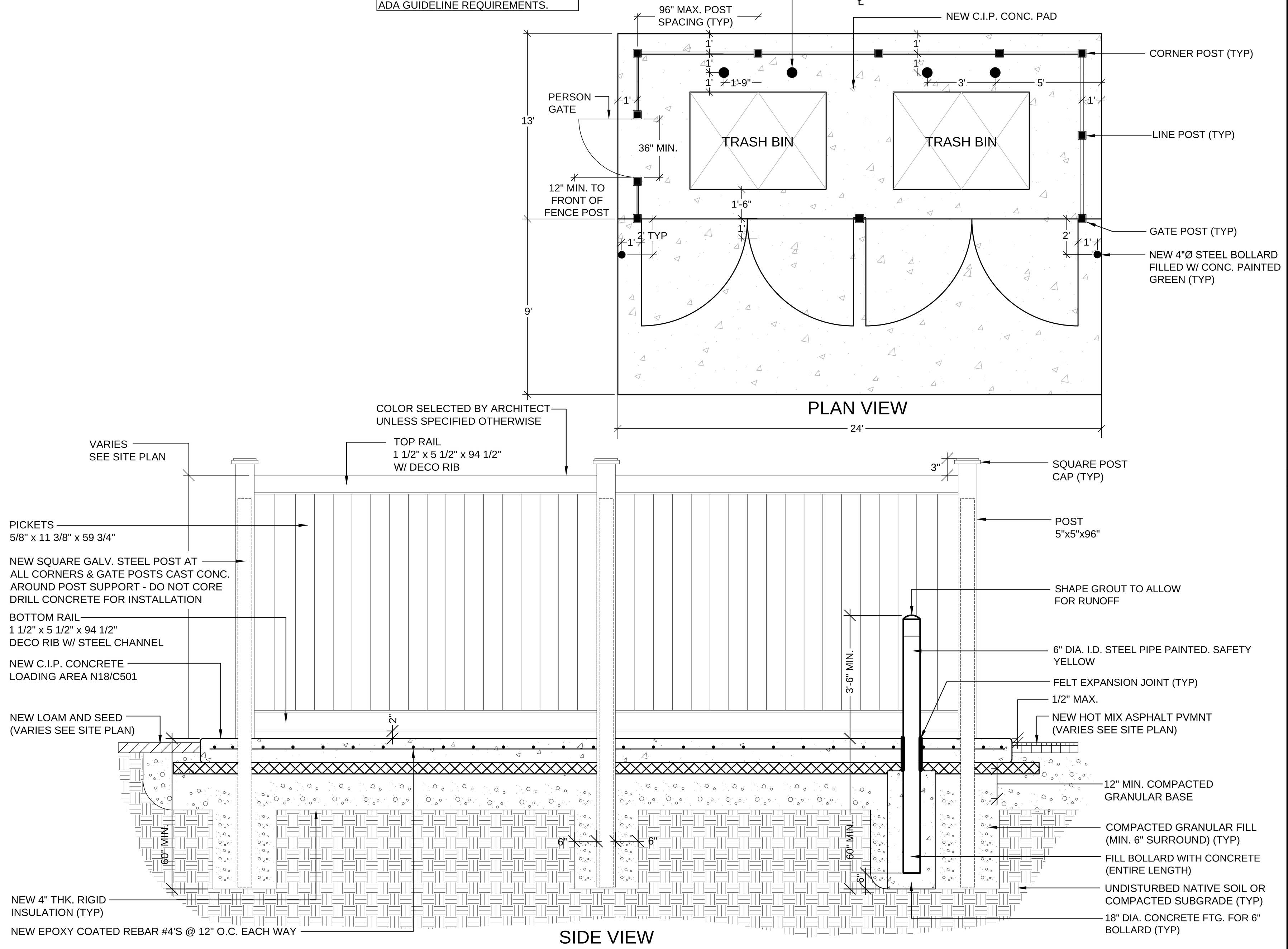


NOTE: THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONTRACT OR AS CONSTRUCTION PROCESS REQUIRES.

T18 NEW TEMPORARY CONSTRUCTION ENTRANCE

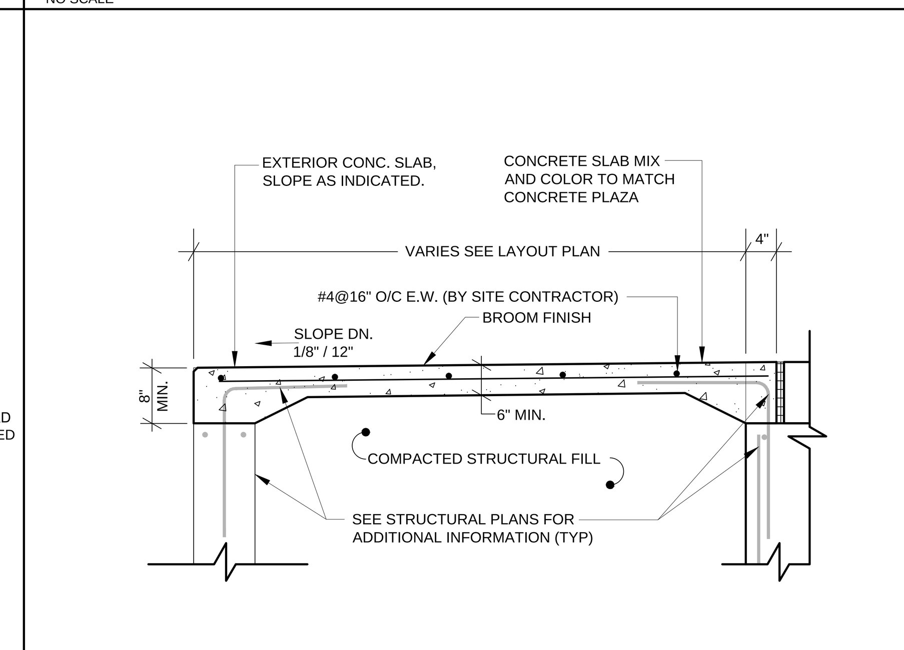
NO SCALE

NOTE:
ALL HARDWARE FOR DOORS TO MEET ADA GUIDELINE REQUIREMENTS.



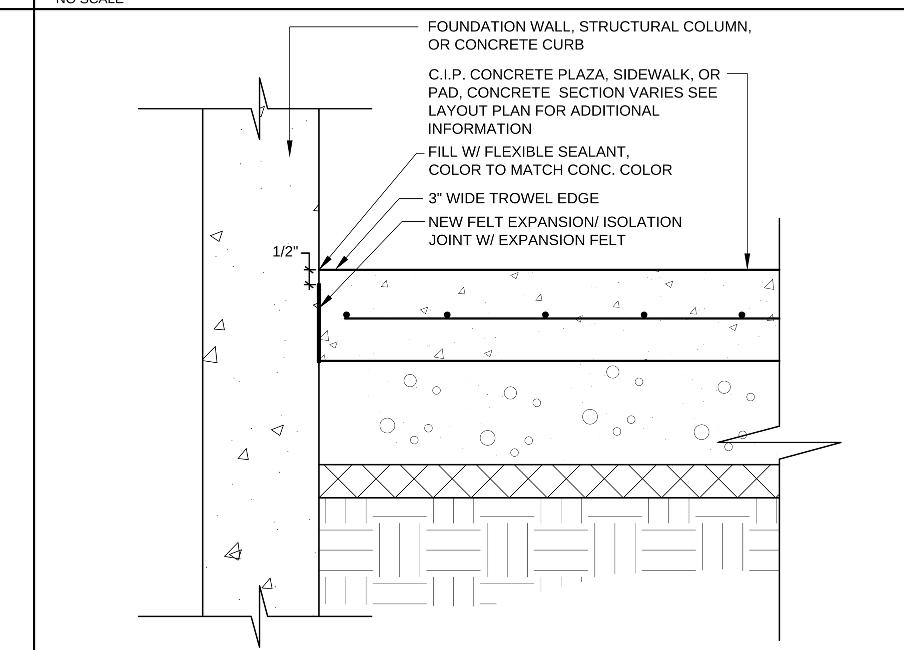
J1 NEW PVC DUMPSTER ENCLOSURE

NO SCALE



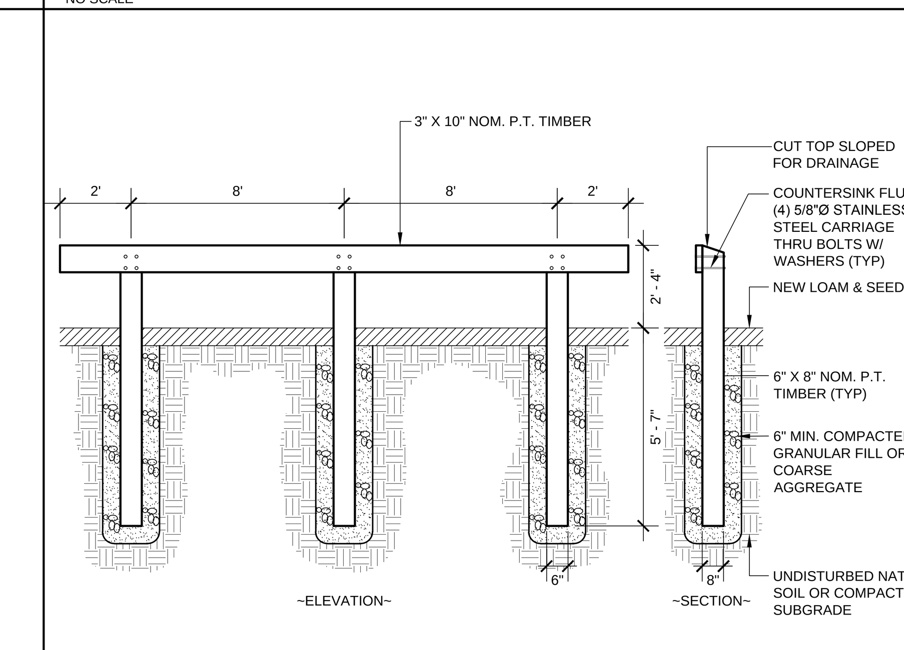
N9 NEW "FULL DEPTH" CIP STRUCTURAL ENTRY SLAB

NO SCALE



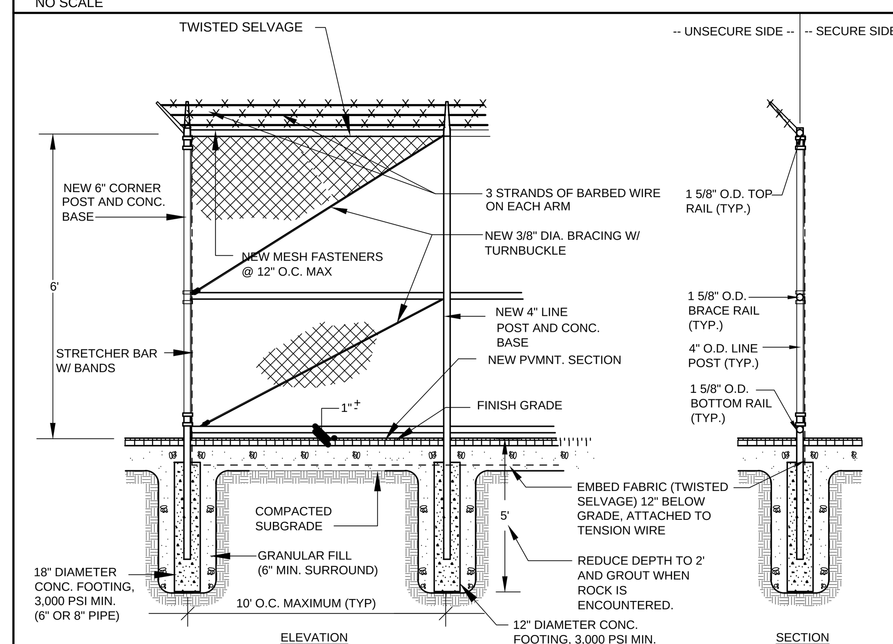
N13 NEW ISOLATION JOINT

NO SCALE



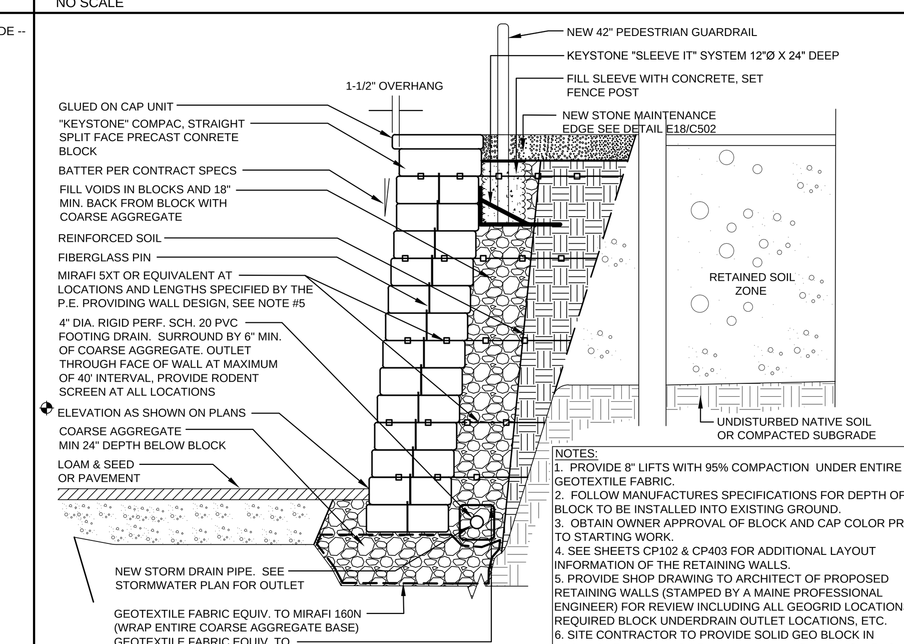
N18 NEW PRESSURE TREATED GUARDRAIL

NO SCALE



J9 NEW CHAIN LINK SECURITY FENCE W/ RAZOR WIRE

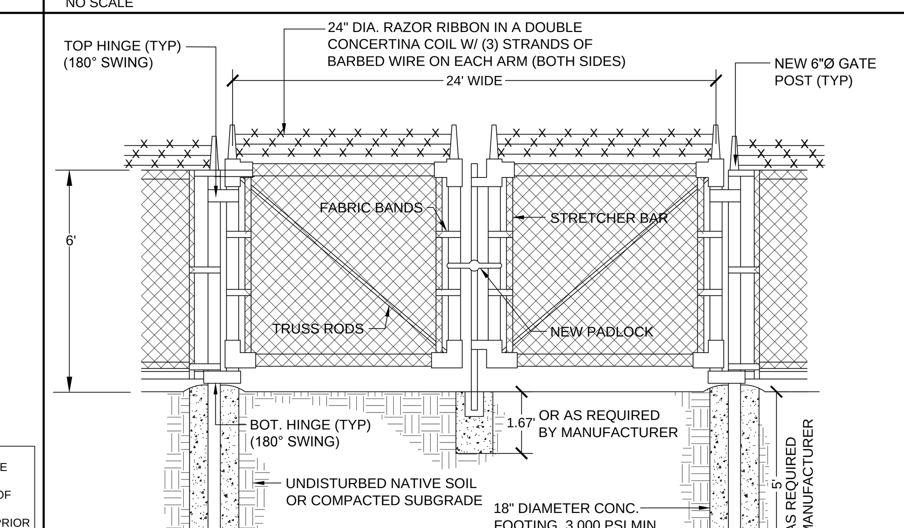
NO SCALE



NOTES:
1. PROVIDE 8" LIFTS WITH 95% COMPACTION UNDER ENTIRE GEOTEXTILE FABRIC.
2. FOLLOW MANUFACTURES SPECIFICATIONS FOR DEPTH OF BLOCK TO BE INSTALLED INTO EXISTING GROUND.
3. OBTAIN OWNER APPROVAL OF BLOCK AND CAP COLOR PRIOR TO STARTING WORK.
4. SEE SHEETS CP102 & CP403 FOR ADDITIONAL LAYOUT INFORMATION OF THE RETAINING WALLS.
5. PROVIDE SHOP DRAWING TO ARCHITECT OF PROPOSED RETAINING WALLS (STAMPED BY A MAINE PROFESSIONAL ENGINEER) FOR REVIEW INCLUDING ALL GEOGRID LOCATIONS, REQUIRED BLOCK UNDERDRAIN OUTLET LOCATIONS, ETC.
6. SITE CONTRACTOR TO PROVIDE SOLID GEO BLOCK IN LOCATIONS WHERE TOP OF WALL ELEVATION TRANSITIONS.

J13 NEW GEOBLOCK RETAINING WALL

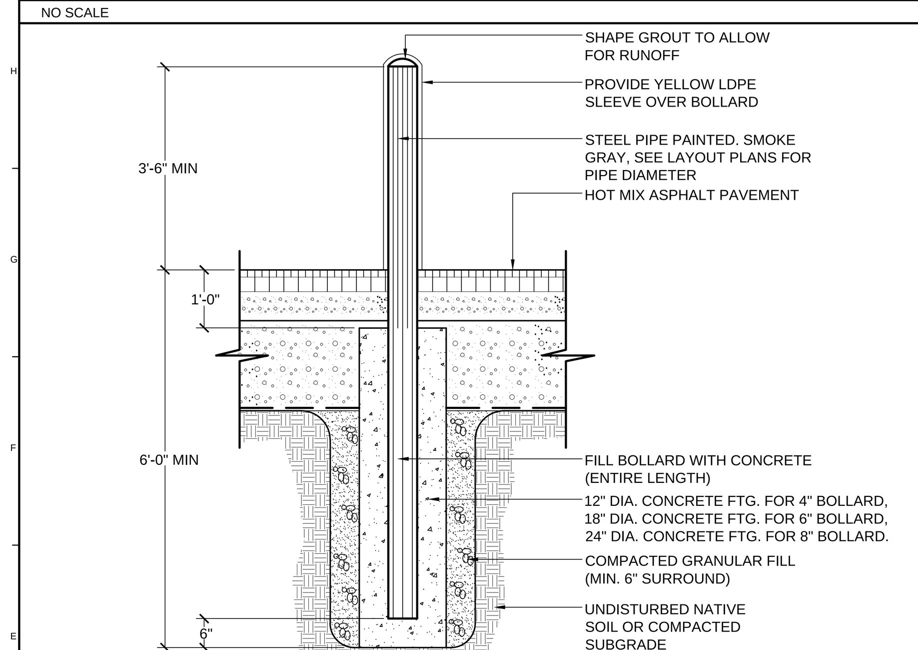
NO SCALE



NOTES:
1. FENCE FABRIC SHALL BE SECURED TO GATE FRAMES WITH KNUCKLES SALVAGE ALONG ALL EDGES FOR ALL TYPES CHAIN LINK FENCE INSTALLATIONS.
2. ALL CONCRETE FOOTINGS AROUND POSTS AT GROUND LINE SHALL BE MOUNDED & SLOPED FOR POSITIVE DRAINAGE.

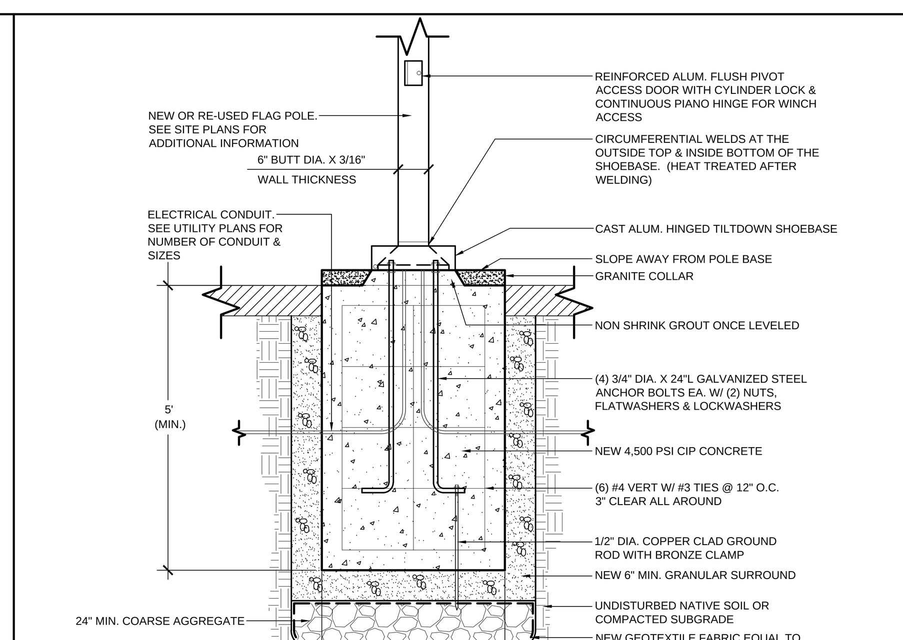
J18 NEW CHAIN LINK DOUBLE SWING GATE

NO SCALE



E1 NEW STEEL BOLLARD

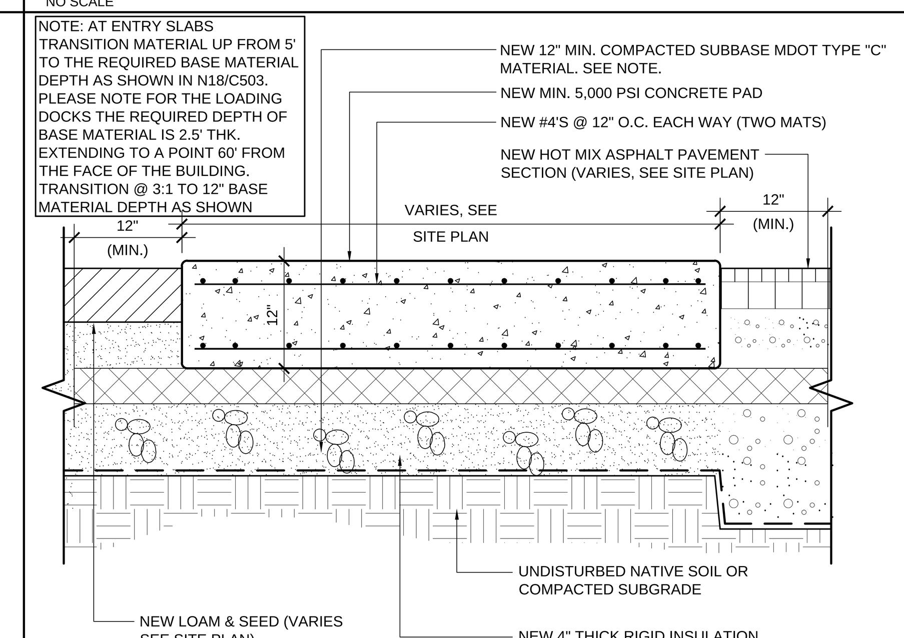
NO SCALE



E5 NEW FLAG POLE BASE

NO SCALE

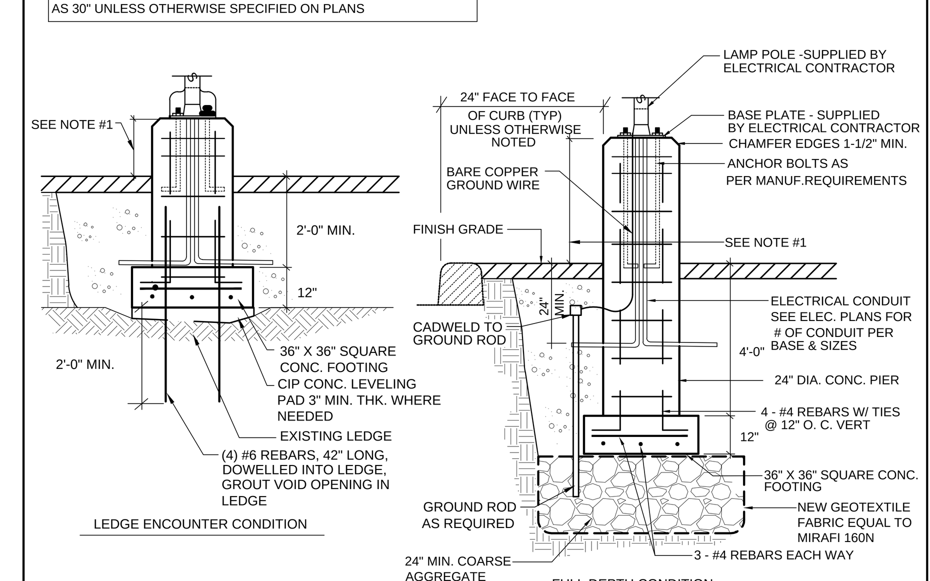
NOTE: AT ENTRY SLABS TRANSITION MATERIAL UP FROM 5' TO THE REQUIRED BASE MATERIAL DEPTH AS SHOWN IN N18/C503. PLEASE NOTE FOR THE LOADING DOCKS THE REQUIRED DEPTH OF BASE MATERIAL IS 2.5' THK. EXTENDING TO A POINT 60' FROM THE FACE OF THE BUILDING. TRANSITION @ 3:1 TO 12" BASE MATERIAL DEPTH AS SHOWN



E9 NEW C.I.P. CONCRETE MECHANICAL PAD

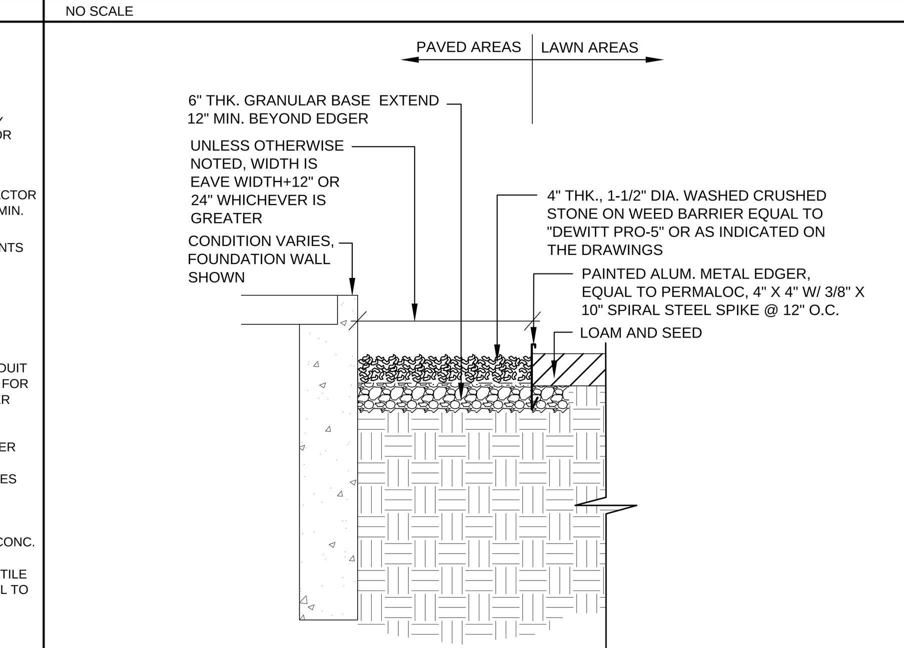
NO SCALE

NOTE:
1. POLE BASE HEIGHT REVEAL ABOVE FINISHED GRADE SHALL BE AS 30" UNLESS OTHERWISE SPECIFIED ON PLANS



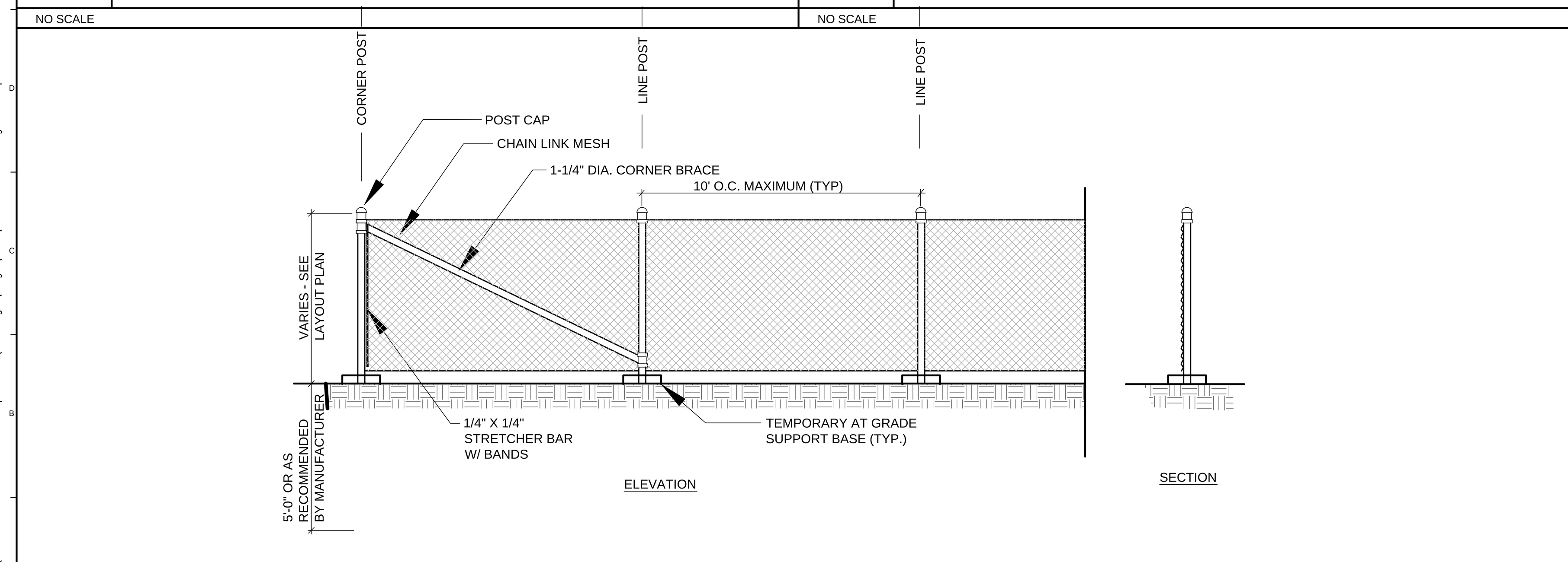
E13 NEW LIGHT BASE

NO SCALE



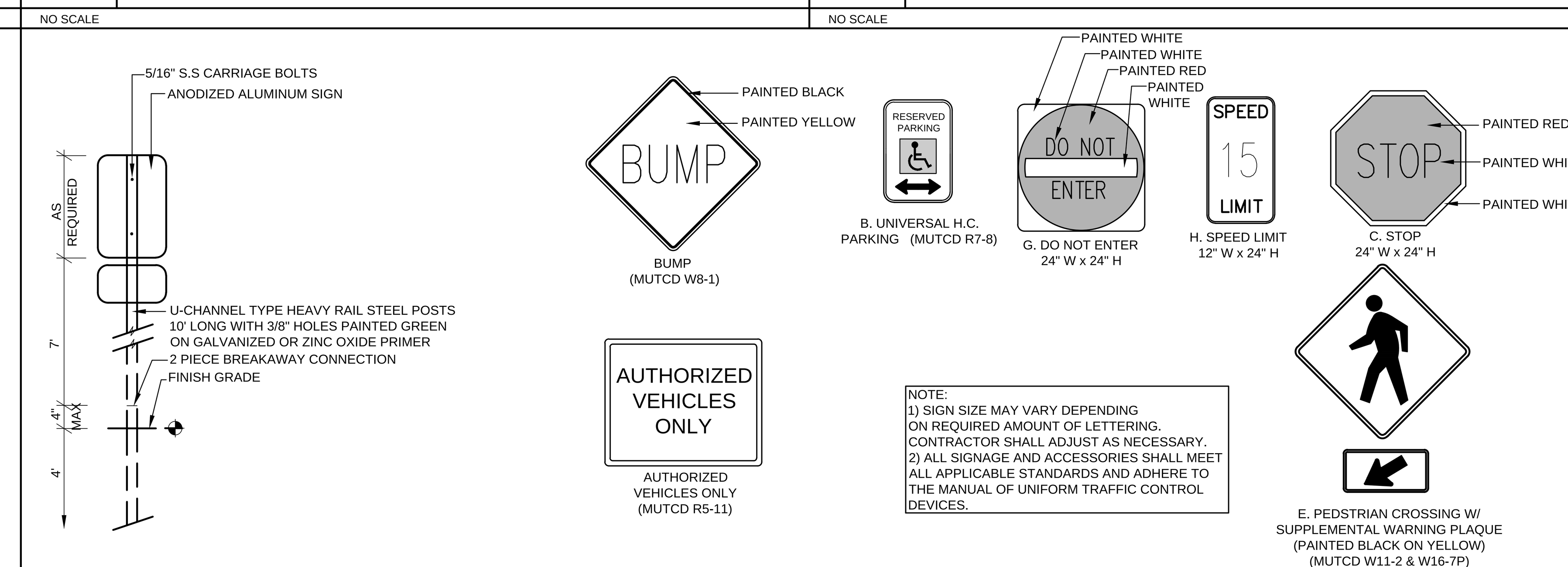
E18 NEW STONE MAINTENANCE EDGE

NO SCALE



A1 TEMPORARY CONSTRUCTION FENCE

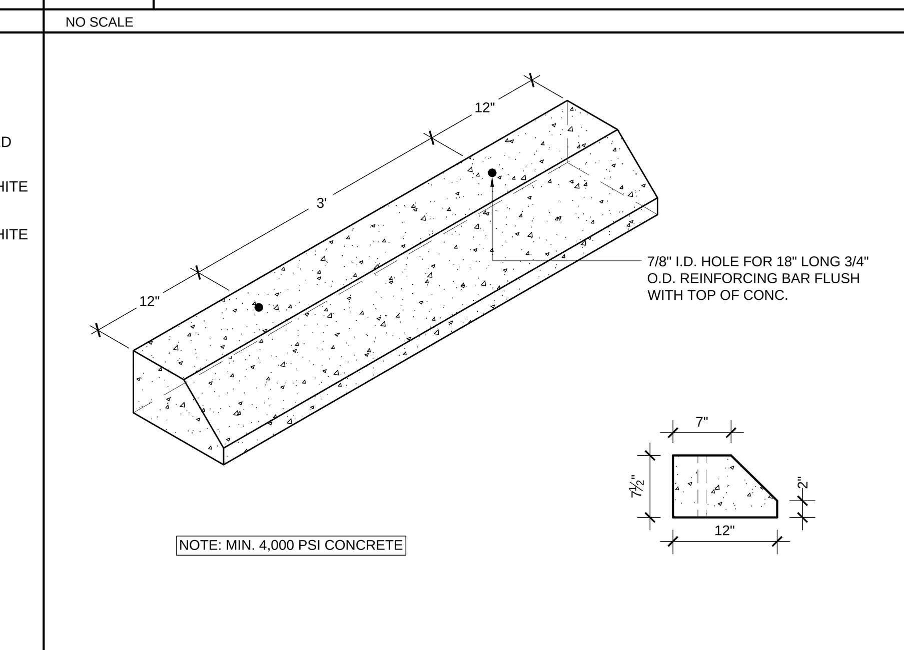
NO SCALE



NOTE:
1) SIGN SIZE MAY VARY DEPENDING ON REQUIRED AMOUNT OF LETTERING. CONTRACTOR SHALL ADJUST AS NECESSARY.
2) ALL SIGNAGE AND ACCESSORIES SHALL MEET ALL APPLICABLE STANDARDS AND ADHERE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

A9 NEW SIGNAGE

NO SCALE



NOTE: MIN. 4,000 PSI CONCRETE

A18 NEW PRECAST CONCRETE WHEEL STOP

NO SCALE

REV.	DESCRIPTION	DATE
1	PER DEP COMMENTS	01-03-2014

APPROVAL DRAWINGS
05.07.14

CURRENT ISSUE STATUS:

STATE OF MAINE PAUL A. MONYOK No. 11833 LICENSED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
5/7/14

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PROJECT: AUGUSTA, MAINE

SHEET TITLE: SITE DETAILS

WBRC CAD FILE: 375200 C501.DWG
PROJECT No. 3752.00
SCALE: NO SCALE
GRAPHIC SCALE: 0" 1"
PROJECT MANAGER: MLW
DRAWN BY: TAR
CHECKED BY: ARB
SHEET No. C502

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