STATE OF DELAWARE - OMB / DFM

OMB / DIVISON OF FACILITIES MANAGEMENT

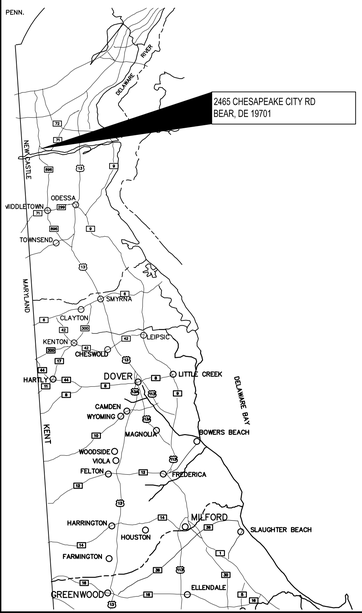
OMB/DFM CONTRACT # MJ2009000008

BEAR VET CEMETERY EXPANSION

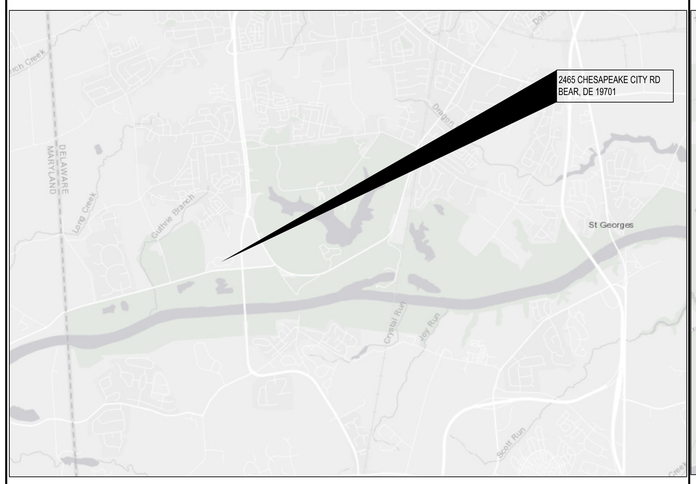
AT THE

DELAWARE VETERAN MEMORIAL CEMETERY

2465 CHESAPEAKE CITY RD,
BEAR, DE 19701
DBF PROJ. NO.: 0586B065.B01



LOCATION MAP



VICINITY MAP

SITE MAP

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DAVIS BOWEN & FRIEDEL, INC.
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EASTON, MARYLAND 410.770.4744
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SALISBURY, MARYLAND 410.543.9091

BEAR VET CEMETERY EXPANSION
DELAWARE VETERAN MEMORIAL CEMETERY
BEAR, DE

COMMENTS | DATE

Date: FEBRUARY 2026
Scale: AS NOTED
Dwn.By: BNB
Proj.No.: 0586B065.B01

COVER SHEET

Dwg.No.: **G-101**

R:\0586B065.B01 - DE VET CEMETARY\01-BIDDING\S-101.dwg Feb 10, 2026 - 11:13am BOBR

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ARCHITECTURAL WORKING DRAWING ABBREVIATIONS

SYMBOLS used as abbreviations

	angle
℄	centerline
	penny
_	perpendicular
PL	plate
○	round

ABBREVIATIONS

ABV	above
AFF	above finish floor
ACC	access
ACFL	access floor
AP	access panel
AC	acoustical
ACT	acoustical tile
ACD	addendum
ADH	adhesive
ADJ	adjacent
ADJT	adjustable
AGG	aggregate
A/C	air conditioning
ALT	alternate
AL	aluminum
ANC	anchor, anchorage
AB	anchor bolt
ANDO	anodized
APX	approximate
ARCH	architect (ural)
AD	area drain
ASB	asbestos
ASPH	asphalt
AUTO	automatic
BP	back plaster (ed)
BSMT	basement
BRG	bearing
BPL	bearing plate
BM	bench mark
BEL	below
BET	between
BVL	beveled
BIT	bituminous
BLK	block
BLKG	blocking
BD	board
BS	both sides
BW	both ways
BOT	bottom
BRK	brick
BRZ	bronze
BLDG	building
BUR	built up roofing
BBD	bulletin board
CAB	cabinet
CPT	carpet
CSMT	casement
CIPC	cast-in-place-concrete
CB	catch basin
CK	caulking
CLG	ceiling
CHT	ceiling height
CEM	cement
PCPL	cement plaster (portland)
CTR	center
CER	ceramic
CT	ceramic tile
CMT	ceramic mosaic tile
CHBD	chalkboard
CHAM	chamfer
CIR	circle
CIRC	circumference
CLR	clear or clearance
COL	column
COMB	combination
CONC	concrete
CMU	concrete masonry unit
CONTR	contract (or)
CONST	construction
CONT	continuous or continue
CLL	contract limit line
CJT	control joint
CPR	copper
CORR	corrugated
CTR	counter
CFL	counterflashing
CTSK	countersunk screw
CRS	course (s)
CFT	cubic feet
CYD	cubic yard
DPR	damper
DP	damp proofing
DL	dead load
DEM	demolish, demolition
DTL	detail
DIAG	diagonal
DIAM	diameter
DR	door
DA	double acting
DH	double hung
DN	down
DS	downspout
D	drain
DT	drain tile
DWR	drawer
DWG	drawing
DF	drinking fountain
D	dryer
EF	each face
E	east
ELEC	electric (al)
EP	electrical panelboard
EWC	electric water cooler
EL	elevation
ELEV	elevator
EMER	emergency
ENC	enclose
EQ	equal
EQP	equipment
EST	estimate
EXCA	excavate
EXH	exhaust
EXG	existing
EJT	expansion joint
EB	expansion bolt
EXP	exposed
EXT	exterior
FE	fire extinguisher
FEC	fire extinguisher cabinet
FOF	face of finish
FOM	face of masonry
FOS	face of studs
FF	factory finish
FAS	fasten, fastener
FN	fence
FBD	fiberboard
FGL	fiberglass
FRP	fiberglass reinforced plastic
FIN	finish (ed)
FFE	finished floor elevation
FFL	finished floor line
FA	fire alarm
FE	fire extinguisher
FEC	fire extinguisher cabinet
FPL	fireplace
FLG	flashing
FLR	floor (ing)
FLCO	floor cleanout
FD	floor drain
FLPL	floor plate
FLUR	flourescent
FTG	footing
FND	foundation
FR	frame (d) (ing)
FBO	furnished by others
FUR	furred (ing)
FUT	future
GA	gage, gauge
GV	galvanized
GC	general contract (or)
GL	glass, glazing
GLB	glass block
GB	grab bar
GD	grade, grading
GVL	grave;
GT	grout
GPDW	gypsum drywall
HBD	hardboard
HDW	hardware
HWD	hardwood
HDR	header
HTG	heating
HVAC	heating/ventilation/air conditioning
HD	heavy duty
HT	height
HDPE	high-density polyethelene
HC	hollow core
HM	hollow metal
HOR	horizontal
HB	hose bib
HV	heat ventilator
HWH	hot water heater
INCL	include (d) (ing)
ID	inside diameter
INS	insulate (d) (ion)
INT	interior
INV	invert
JC	janitor's closet
JT	joint
J	joist
KPL	kickplate
KIT	kitchen
KO	knockout
LBL	label
LAD	ladder
LB	lag bolt
LAM	laminate
LAV	lavatory
LH	left hand
L	length
LT	light
LTL	lintel
LVR	louver
LL	live load
MH	manhole
MFR	manufacture (er)
MAD	masonry
MO	masonry opening
MTL	material (s)
MAX	maximum
MECH	mechanic (al)
MC	medicine cabinet
MBR	member
MMB	membrane
MET	metal
MFD	metal floor decking
MTFR	metal furring
MRD	metal roof decking
MTHR	metal threshold
MWK	millwork
MIN	minimum
MIR	mirror
MISC	miscellaneous
MOD	modular
MLD	molding, moulding
MR	mop receptor
MT	mount (ed) (ing)
MOV	movable
MUL	mullion
NAT	natural
NOM	nominal
N	north
NIC	not in contract
NTS	not to scale
OBS	obscure
OC	on center (s)
OP	opaque
OPG	opening
OJ	open-web joist
OPP	opposite
OPH	opposite hand
OD	outside diameter
OA	overall
OH	overhead
PNT	paint (ed)
PNL	panel
PB	panic bar
PTD	paper towel dispenser
PTR	paper towel receptor
PAR	parallel
PK	parking
PDB	particle board
PTN	partition
PV	pave (d) (ing)
PTMT	pavement
PERF	perforate
PERI	perimeter
PLAS	plaster
PLAM	plastic laminate
PL	plate
PG	plate glass
PWD	plywood
PT	point
PVC	polyvinyl chloride
PCF	pounds per cubic foot
PLF	pounds per lineal foot
PSF	pounds per square foot
PSI	pounds per square inch
PSL	parallel strand lumber
P/C	pre-cast
PFB	prefabricated
PFN	prefinished
PRF	preformed
PRTR	pressure treated wood
PL	property line
QT	quarry tile
RL	rail (ing)
RWC	rain water collector
REF	reference
RFL	reflect (ed) (ive) (or)
REFR	refrigerator
REG	register
REINF	reinforce (d) (ing)
RCP	reinforced concrete pipe
ROW	right-of-way
RES	resilient
RET	return
RA	return air
REV	revision (s), revised
RH	right hand
ROW	right of way
R	riser
RD	roof drain
RFL	roof hatch
RFG	roofing
RM	room
RO	rough opening
RB	rubber base
SCHED	schedule
SNT	sealant
SECT	section
SSK	service sink
SHTH	sheathing
SHT	sheet
SG	sheet glass
SH	shelf, shelving
SHO	shore (d) (ing)
SIM	similar
SKL	skylight
SL	sleeve
SC	solid core
S	south
SPC	spacer
SPL	special
SPEC	specification (s)
SQ	square
SST	stainless steel
STD	standard
STL	steel
STOR	storage
SD	storm drain
STRUCT	structural
SYM	symmetry (ical)
SYS	system
TKBD	tackboard
TEL	telephone
TV	television
TZ	terazzo
THK	thick (ness)
THRES	threshold
TPTN	toilet partition
TPD	toilet paper dispenser
TOL	tolerance
T&G	tongue and groove
T O SLAB	top of slab
TOS	top of steel
TW	top of wall
TB	towel bar
TRT	treat (ed)
TRANS	transverse
T	tread
TYP	typical
UC	undercut
UNF	unfinished
UR	urinal
UNO	unless noted otherwise
VB	vapor barrier
VERT	vertical
VCT	vinyl composition tile
VB	vinyl base
VT	vinyl tile
WSCT	wainscot
WH	wall hung
W	washing machine
WC	water closet
WP	waterproofing
WS	waterstop
WWF	welded wire fabric
W	west
WHB	wheel bumper
WTH	wide, width
W/	with
WIN	window
WG	wired glass
WM	wire mesh
WO	without
WD	wood
WB	wood base
WPT	working point

MATERIAL LEGEND

- MASONRY IN ELEVATION
- CONCRETE IN PLAN OR DRYWALL IN PLAN OR SECTION
- CONCRETE IN SECTION
- EARTH IN SECTION
- WOOD (ROUGH) IN SECTION
- BRICK IN SECTION
- CONCRETE MASONRY UNIT IN SECTION
- BATT INSULATION IN SECTION
- RIGID INSULATION IN SECTION
- WOOD (FINISH) IN SECTION

GRAPHIC SYMBOL LEGEND

- CENTER LINE
- HIDDEN LINE
- DEMOLITION
- EXISTING WALL AND DOOR TO REMAIN
- EXISTING STUD OR MASONRY WALL
- NEW CMU WALL (SEE PARTITION TYPES FOR REQUIREMENTS)
- NEW STUD WALL (SEE PARTITION TYPES FOR REQUIREMENTS)

SYMBOLS LEGEND

- (X) DRAWING KEYNOTE
- X — DOOR TAG (SEE DOOR SCHEDULE)
- PARTITION TYPE
- XXX | X — ROOM TAG / ROOM FINISH DESIGNATION
- XX / YY — ELEVATION (XX = SHEET NUMBER, YY = ELEVATION NUMBER)
- N — NORTH ARROW
- PN — PROJECT NORTH
- DTL. / SHEET — SECTION DETAIL
- S — SMOKE DETECTOR

CODE DATA

I. APPLICABLE CODES:

INTERNATIONAL BUILDING CODE 2021
ADA STANDARDS FOR ACCESSIBLE DESIGN 2010

II. BUILDING DATA:

A. SOIL BEARING CAPACITY: 2000 PSF
B. CONCRETE COMPRESSIVE STRENGTH 3500 PSI

GENERAL NOTES

1. THESE DRAWINGS ARE PROVIDED FOR THE EXCLUSIVE USE OF THE OWNER. OWNER/ARCHITECT SERVICES AGREEMENT IS FOR ARCHITECTURAL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OTHER CONSULTANTS.
2. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION. ANY VARIATIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE OWNERS ATTENTION PRIOR TO CONSTRUCTION.
3. ANY CHANGE OR FIELD ALTERATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
4. ANY ITEMS NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REASONABLY INCIDENTAL TO AND NECESSARY FOR THE SATISFACTORY COMPLETION OF THE PROJECT IN ACCORDANCE WITH INDUSTRY STANDARDS, ARE INCLUDED WITHIN THE INTENT OF THESE DRAWINGS.
5. BUILDING CODE COMPLIANCE, CONSTRUCTION DETAILING, AND COORDINATION RESULTING FROM THE USE OF THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING/BRACING AND CONSTRUCTION MEANS AND METHODS.

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BEAR VET CEMETERY EXPANSION
DELAWARE VETERAN MEMORIAL CEMETERY
BEAR, DE

DATE	COMMENTS

Date: FEBRUARY 2026
Scale: AS NOTED
Dwn.By: BNB
Proj.No.: 0586B065.B01

SYMBOLS & ABBREVIATIONS

Dwg.No.: **G-102**

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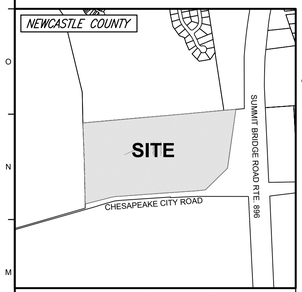
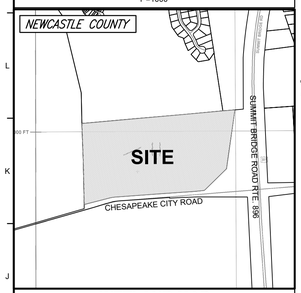
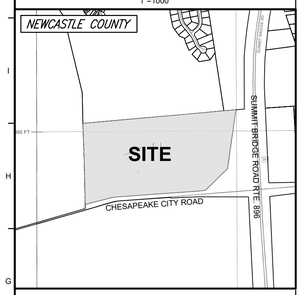
DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
DBF # 0586065.B01
JANUARY 2026
MASTER PLAN SET



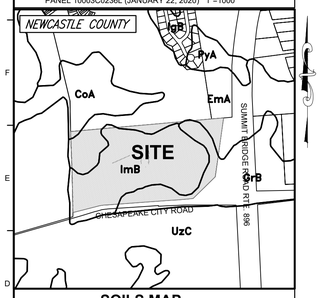
LOCATION MAP
1"=1000'



WETLAND MAP
1"=1000'



FLOODPLAIN MAP
PANEL 10003C0236L (JANUARY 22, 2020) 1"=1000'



SOILS MAP
1"=1000'

SOILS DATA

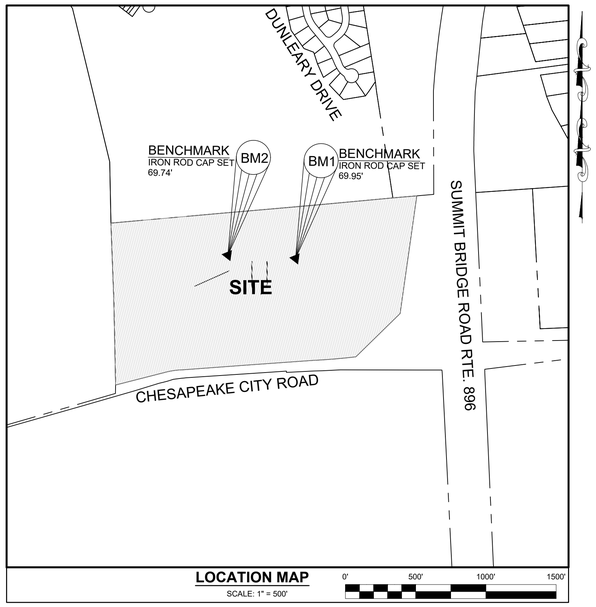
LABEL	SOIL NAME	TYPE
ImB	INGLESIDE-HAMMONTON-FALLINGSTON COMPLEX	A
GrB	GREENWICH LOAM	B
EmA	ELKTON SILT LOAM	C/D

THE PURPOSE OF THIS PLAN IS TO:

ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY, ADDITIONAL PARKING AND UPGRADE THE ACCESS DRIVE FOR THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING LONGEVITY OF USE.

DATA COLUMN

1	INSTRUMENT NUMBER	11-050.00-005
2	DEED REFERENCE	BOOK 2016, PAGE 040
3	SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701
4	PLUS NUMBER	N/A
5	ENGINEER: DAVIS, BOWEN & FRIEDEL, INC. 1 PARK AVENUE MILFORD, DE 19963 RING W. LARDNER, P.E. PHONE: (302) 424-1441 EMAIL: rwl@dbfinc.com OWNER: STATE OF DELAWARE 122 MARTIN LUTHER KING BLVD. DOVER, DELAWARE 19901 JENNIFER COVERDALE PHONE: (302) 739-9644 EMAIL: jennifer.coverdale@delaware.gov DEVELOPER: DELAWARE DEPARTMENT OF VETERAN AFFAIRS 802 SILVER LAKE BLVD., SUITE 100 DOVER, DELAWARE 19904 JACQUELINE HAYMAN-CARTER PHONE: (302) 834-4046 EMAIL: jacqueline.hayman-carter@delaware.gov
6	DATUM	HORIZONTAL: NAD 83 (DE STATE PLANE); VERTICAL: NAVD 88
7	LAND USE	EXISTING: CEMETERY; PROPOSED: CEMETERY
8	ZONING	EXISTING: SR-SUBURBAN RESERVE; PROPOSED: SR-SUBURBAN RESERVE
9	TOTAL UNITS EXISTING/PROPOSED	EXISTING BUILDINGS: 0; PROPOSED BUILDINGS: 9,600 NICHES
10	BUILDING CONSTRUCTION	IBC: N/A; NFPA: N/A
11	UTILITY PROVIDERS	WATER: ARTESIAN; SEWER: NEWCASTLE COUNTY
12	FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10003C0236L, DATED JANUARY 22, 2020.
13	TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).
14	GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.
15	WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.
16	WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.
17	SITE COORDINATES	LATITUDE / LONGITUDE: N 39.325963 / W 75.443636
18	INFILTRATION FACILITY	N 39.330114 / W 75.444023
19	DISCHARGE LOCATION (EXISTING INLET)	N 39.3259.80 / W 75.444407
20	LOD FOR DISCHARGE LOCATION:	2.40 AC
21	REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN -FIRE MARSHAL PLAN -ARCHITECTURAL ACCESSIBILITY BOARD
22	SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026



LOCATION MAP
SCALE: 1" = 500'

BENCHMARK INFORMATION

BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563654.85	69.74

Know what's **below.**
Call before you dig.
MISS UTILITY PHONE 1-800-282-8555
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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L-102	LANDSCAPE PLAN DETAILS

GENERAL CONSTRUCTION NOTES

1. ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS, DATED JANUARY 2025, AND/OR THE DELDOT STANDARD DETAILS, LATEST REVISION, OR AS MODIFIED BY THESE PLANS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK (2023).
3. MATCH PROPOSED PAVING TO EXISTING PAVING ELEVATIONS WHERE THEY ADJOIN.
4. SAW CUT AT THE JUNCTION FOR ALL EXISTING PAVEMENT AND FOR ALL PAVEMENT REMOVAL.
5. PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-282-8555 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
7. DAVIS, BOWEN, & FRIEDEL, INC. MAKES NO GUARANTEE AS TO THE EXISTENCE OR NON-EXISTENCE, LOCATION, DEPTH, SIZE OR CONDITION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN NOT ACCESSIBLE FROM THE SURFACE OF THE GROUND. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AT THE TIME THE PLAN WAS PREPARED. THE CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES INVOLVED.

   IT IS THE RESPONSIBILITY OF THE OWNER, OR HIS CONTRACTOR, TO VERIFY AND ALLOW FOR THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHIN THE WORK AREA SHOWN ON THIS PLAN. THE CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION OR OTHER CONSTRUCTION AROUND OR IMMEDIATELY ADJACENT TO EXISTING UTILITIES WITHOUT NOTIFYING THE UTILITY OWNERS(S) AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE START OF EXCAVATION OR CONSTRUCTION. TEST PITS FOR UTILITY LOCATIONS MAY OR MAY NOT BE REQUIRED.

   PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THE CONTRACTOR EXCAVATE IN THE AREA OF ANY POTENTIAL UTILITY CROSSING TO VERIFY THAT THE UTILITY WILL NOT INTERFERE WITH CONSTRUCTION. IF, AFTER UNCOVERING THE UTILITY, THERE IS ANY QUESTION CONCERNING A POSSIBLE CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT HIS EXPENSE.
8. EXISTING AERIAL UTILITIES ARE NOT SHOWN.
9. ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE POLICIES, ETC. REQUIRED BY LOCAL STATE AND/OR FEDERAL LAWS SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.

GENERAL CONSTRUCTION NOTES (CONT.)

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS SUFFICIENT COVER ON ALL PIPING DURING CONSTRUCTION TO PREVENT FAILURE OF PIPES.
11. ALL SIGNING, TRAFFIC CONTROL AND SAFETY SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL OF THE DIVISION OF HIGHWAYS. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL PROPOSED SIGNAGE TO REQUIRE A SEPARATE PERMIT FROM SUSSEX COUNTY.
12. PAINT STRIPING AND GRAPHICS FOR LONGITUDINAL STRIPING SHALL BE RESIGN PAINT. LATERAL STRIPING/SHAPES SHALL BE ALKYD THERMOPLASTIC TAPE/SYMBOL.
13. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTION SHALL BE MARKED IN ACCORDANCE WITH DELAWARE STATE FIRE PREVENTION REGULATIONS AND PER THE APPROVED FIRE MARSHAL SITE PLAN.
14. ALL PROPOSED UNDERGROUND UTILITIES SHALL BE MARKED WITH 6-INCH WIDE (MIN.) METALLIC MARKING TAPE OF APPROPRIATE COLOR AND MESSAGE TO CONFORM TO UTILITY BURIED BENEATH IT AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
15. ALL UTILITY EXCAVATION SHALL BE KEPT DRY AT ALL TIMES.
16. 4" PVC PIPE SLEEVES TO BE PROVIDED FOR ALL SIGNS IN SIDEWALK AREAS.
17. ALL AREAS NOT COVERED BY PAVING OR BUILDING SHALL RECEIVE 6" MINIMUM OF TOPSOIL, SEED, AND STRAW MULCH OR MATTING (AS APPLICABLE) AS SOON AS FINAL GRADING IS COMPLETE.
18. NO DEBRIS SHALL BE BURIED ON SITE.
19. ANY EXCESS EXCAVATION AND TOPSOIL SHALL BE REMOVED FROM THE SITE.
20. PROVIDE EROSION CONTROL MATTING ON ALL SLOPES 3:1 OR STEEPER AND IN ALL OPEN CHANNELS.
21. CONCRETE SIDEWALKS SHALL BE 3,000 PSI PORTLAND CEMENT CONCRETE, 4" THICK, ON 4" GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE NOTED.
22. MINIMUM COMPACTION SHALL BE AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
23. TOTAL LIMIT OF DISTURBANCE: 104,590± S.F. (2.40± AC.)
24. EARTHWORK FROM BULK GRADING IS PROPOSED TO LEAVE THE PROJECT SITE. NET CUT = 2,300CY.

IMPORTANT - DO NOT DISTRIBUTE
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OWNER STATEMENT

I, THE UNDERSIGNED, CERTIFY THAT I AM THE OWNER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO BE ACT AND DESIRE THE PLAN TO BE RECORDED TO ORDINANCE.

JENNIFER COVERDALE — DATE
STATE OF DELAWARE
122 MARTIN LUTHER KING, JR. BLVD.
DOVER, DE 19901

DEVELOPER STATEMENT

I, THE UNDERSIGNED, CERTIFY THAT I AM THE DEVELOPER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO BE ACT AND DESIRE THE PLAN TO BE RECORDED TO ORDINANCE.

JACQUELINE HAYMAN-CARTER — DATE
CEMETERY ADMINISTRATOR OF DELAWARE VETERANS MEMORIAL CEMETERY
DELAWARE DEPARTMENT OF VETERAN AFFAIRS
802 SILVER LAKE, BLVD., SUITE 100
DOVER, DE 19904

ENGINEER'S STATEMENT

I, RING W. LARDNER, P.E., HEREBY STATE THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

RING W. LARDNER, P.E. — DATE
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVE.
MILFORD, DELAWARE, 19963

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

MASTER TITLE SHEET

Dwg.No.:
C-001

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MANMADE ROADSIDE FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BOLLARD			
CURB, TYPE 1 AND 3			C
CURB OPENING WITH SIDEWALK			A C
FENCE – CHAINLINK OR STRANDED	X X X X		F
LAMP AND POST – RESIDENTIAL			
MAILBOX	MB	MB	
TRAFFIC SIGN AND POST			
CURB OPENING			C O

DRAINAGE FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
FLARED END SECTION			FE
DRAINAGE MANHOLE	D		MH
DRAINAGE INLET			DI
DIRECTIONAL FLOW ARROW			
RIPRAP			RR
DRAINAGE PIPE			P
UNDERDRAIN			UD
UNDERDRAIN OUTLET			DI
SAFETY END SECTION			DI
BIOFILTRATION SWALE		X BFS X	
DITCH CENTERLINE			
DRAINAGE JUNCTION BOX	J.B.		JB
DRAINAGE PIPE HEADWALL			

IDENTIFIERS

FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	A C
ABANDON BY OTHERS	A C
ADJUST BY CONTRACTOR	A C
ADJUST BY OTHERS	A O
CONVERT TO JUNCTION BOX	C/JB
CONVERT TO DRAINAGE MANHOLE	C/MH
DO NOT DISTURB	DND
PEDESTRIAN CONNECTION/TYPE	DI
PEDESTRIAN CONNECTION/TYPE WITHOUT DETECTABLE WARNING SYSTEM	DI
RELOCATE BY CONTRACTOR	RL C
RELOCATE BY OTHERS	RL O
REMOVE BY CONTRACTOR	RM C
REMOVE BY OTHERS	RM O

UTILITY FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED
ELECTRIC – UNDERGROUND	UG-E	
ELECTRIC MANHOLE	E	
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER		
GAS – UNDERGROUND	UGG UGG UGG	UGG UGG UGG
GAS MANHOLE	G	
GAS METER	G.M.	
LIGHT POLE		
GAS VALVE	G.V.	
RAILROAD TRACKS		
SANITARY MAIN	EX-8SS	8SS
SANITARY SEWER MANHOLE	S	
SOIL BORING LOCATION		
TELEPHONE TEST POINT	T	
UTILITY POLE GUY WIRE ANCHOR		
UTILITY POLE		
WATER MAIN		
WATER – FIRE HYDRANT		
WATER VALVE		
WATER METER/LATERAL		
SANITARY SEWER CLEANOUT/LATERAL	©	

NATURAL FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
SHRUBBERY		
TREE – CONIFEROUS		
TREE – DECIDUOUS		
TREE LINE		
CONTOUR ELEVATION & LABEL	33	33
ELEVATION	44.70	21.98

RIGHT-OF-WAY FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED
PERMANENT EASEMENT	+ + + +	+ + + +
PROPERTY LINE		
RIGHT-OF-WAY BASELINE	1+00	1+00
RIGHT-OF-WAY LINE	EX-RW	
TAX DITCH RIGHT OF WAY		TAX RW
DELDOT PERMANENT EASEMENT	PE	PE
TEMPORARY CONSTRUCTION EASEMENT		TCE

SURVEY CONTROL & MONUMENTATION

FEATURE DESCRIPTION	EXISTING	PROPOSED
SURVEY BENCHMARK LOCATION		BM#2
IRON ROD WITH CAP SET		
CONCRETE MONUMENT	CMF	
IRON PIPE FOUND	IPF	
IRON ROD FOUND	IRF	

MISCELLANEOUS FEATURES

FEATURE DESCRIPTION	EXISTING	PROPOSED
LIMIT OF DISTURBANCE		LOD
WETLAND BOUNDARY – DELINEATED		

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

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LEGEND

Dwg.No.: **C-002**

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EXISTING DRIVE
EXISTING PARKING
EXISTING PAVED DRIVE
EXISTING PARKING
EXISTING IRRIGATION LINE
EXISTING GRASSED AREA
EXISTING IRRIGATION LINE
EXISTING GRASSED AREA
EXISTING IRRIGATION LINE
SEE INSET FOR CONTINUATION
EXISTING STONE MAINTENANCE ROAD
EXISTING CLEANOUT
EXISTING ELECTRIC LINE
HH/ELECTRIC-FOR-POND-PUMP
EXISTING INLET
EXISTING ELECTRIC LINE

SITE INSET
SCALE: 1" = 20'

0 20 40 60

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EXISTING CONDITIONS

Dwg.No.: **C-003**

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EXISTING DRIVE

EXISTING PARKING

EXISTING TREES TO REMAIN

EXISTING PAVED DRIVE

EXISTING PARKING

EXISTING TREES TO REMAIN

EXISTING IRRIGATION LINE

AREA OF DEMOLITION

EXISTING WATER LINE TO BE RELOCATED

AREA OF DEMOLITION

EXISTING GRASSED AREA

EXISTING WATER LINE TO REMAIN

SEE INSET FOR CONTINUATION

EXISTING TREES TO REMAIN

EXISTING STONE MAINTENANCE ROAD TO BE PAVED (ENTIRE LENGTH)

EXISTING CLEANOUT

EXISTING ELECTRIC LINE

EXISTING STORM DRAIN INLET

SITE INSET
SCALE: 1" = 20'

0 20 40 60

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PENCADER HUNDRED

BEAR, NEW CASTLE COUNTY, DELAWARE

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DEMOLITION PLAN

Dwg.No.: **C-004**

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EXISTING PARKING

EXISTING DRIVE DRIVE

ALL EXISTING TREES TO BE PROTECTED DURING CONSTRUCTION (TYP.)

EXISTING PAVED DRIVE

EXISTING PARKING

PROPOSED INFILTRATION FACILITY (SEE SHEET C-409)

COLUMBARIUM PLAZA "A", SEE SHEET C-103

COLUMBARIUM PLAZA "B", SEE SHEET C-104

COLUMBARIUM PLAZA "C", SEE SHEET C-105

COLUMBARIUM WALL #XXXIII

EXISTING WATER LINE TO BE RELOCATED, TYPICAL

COLUMBARIUM WALL #XXXIV

COLUMBARIUM WALL #LIII

COLUMBARIUM WALL #FIV

COLUMBARIUM WALL #LXXIII

COLUMBARIUM WALL #LXXIV

PROPOSED 15" STORM DRAIN

SEE INSET FOR CONTINUATION

RELOCATED IRRIGATION WATER LINE

EX. IRRIGATION WATER LINE TO REMAIN UNDISTURB

IRRIGATION WATER LINE

IRRIGATION WATER LINE

EXISTING STONE MAINTENANCE ROAD

COLUMBARIUM WALL #XV

COLUMBARIUM WALL #XVI

COLUMBARIUM WALL #XXXV

COLUMBARIUM WALL #XXXVI

COLUMBARIUM WALL #LV

COLUMBARIUM WALL #LVI

REMOVE 4" OF STONE FROM EXISTING MAINTENANCE ROAD. ADD 1½" & 2½" PAVING LIFTS OF TYPE C HOT MIX AS REPLACEMENT. WORK TO EXTEND ENTIRE LENGTH OF ROAD. (SEE DETAIL SHEET C-103)

BURIAL SECTION SIGN WITH TRASH RECEPTACLE (SEE DETAIL SHEET C-201 & C-202)

ADA SIGN (SEE DETAIL SHEET C-202)

BURIAL SECTION SIGN WITH TRASH RECEPTACLE

PROPOSED (11) 10'x22' PARKING SPACES, (SEE DETAIL SHEET C-103)

BURIAL SECTION SIGN WITH TRASH RECEPTACLE

SITE INSET
SCALE: 1" = 20'

0 20 40 60

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SITE PLAN

Dwg.No.: **C-102**

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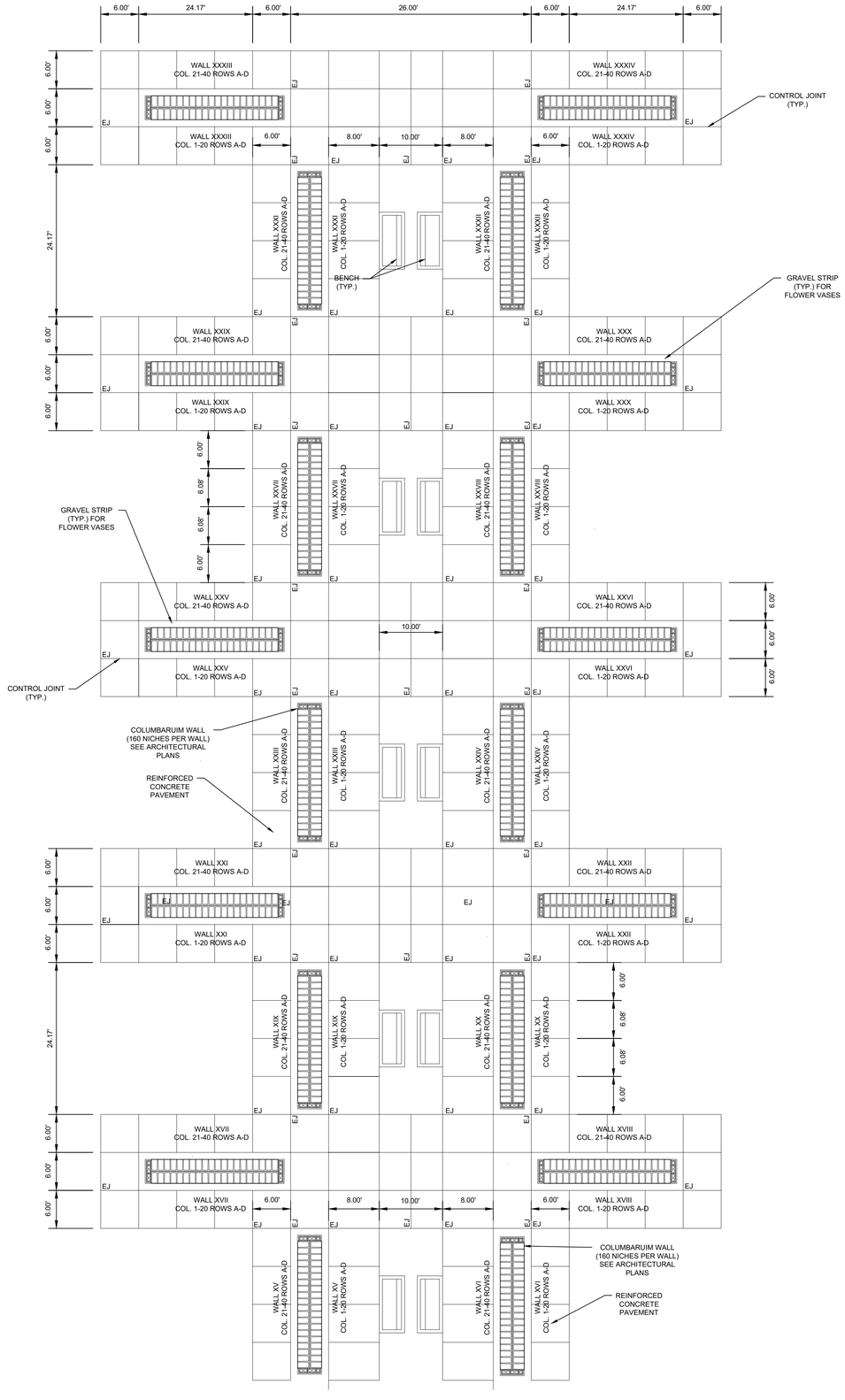

COLUMBARIUM DETAIL - SECTION 4A

NOTES:
1. SEE SHEET C-302 FOR DETAILED GRADING INFORMATION
2. TWENTY (20) WALLS PER COLUMBARIUM, EIGHTY (80) NICHES PER SIDE AND THREE (3) COLUMBARIUM AREAS
3. TOTAL 9,600 NICHES ON PROPOSED SITE
4. SEE ARCHITECTURAL PLANS FOR DETAILED COLUMBARIUM INFORMATION

0 20 40 60

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PENCADER HUNDRED

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COLUMBARIUM DETAIL PLAN

Dwg.No.: C-103

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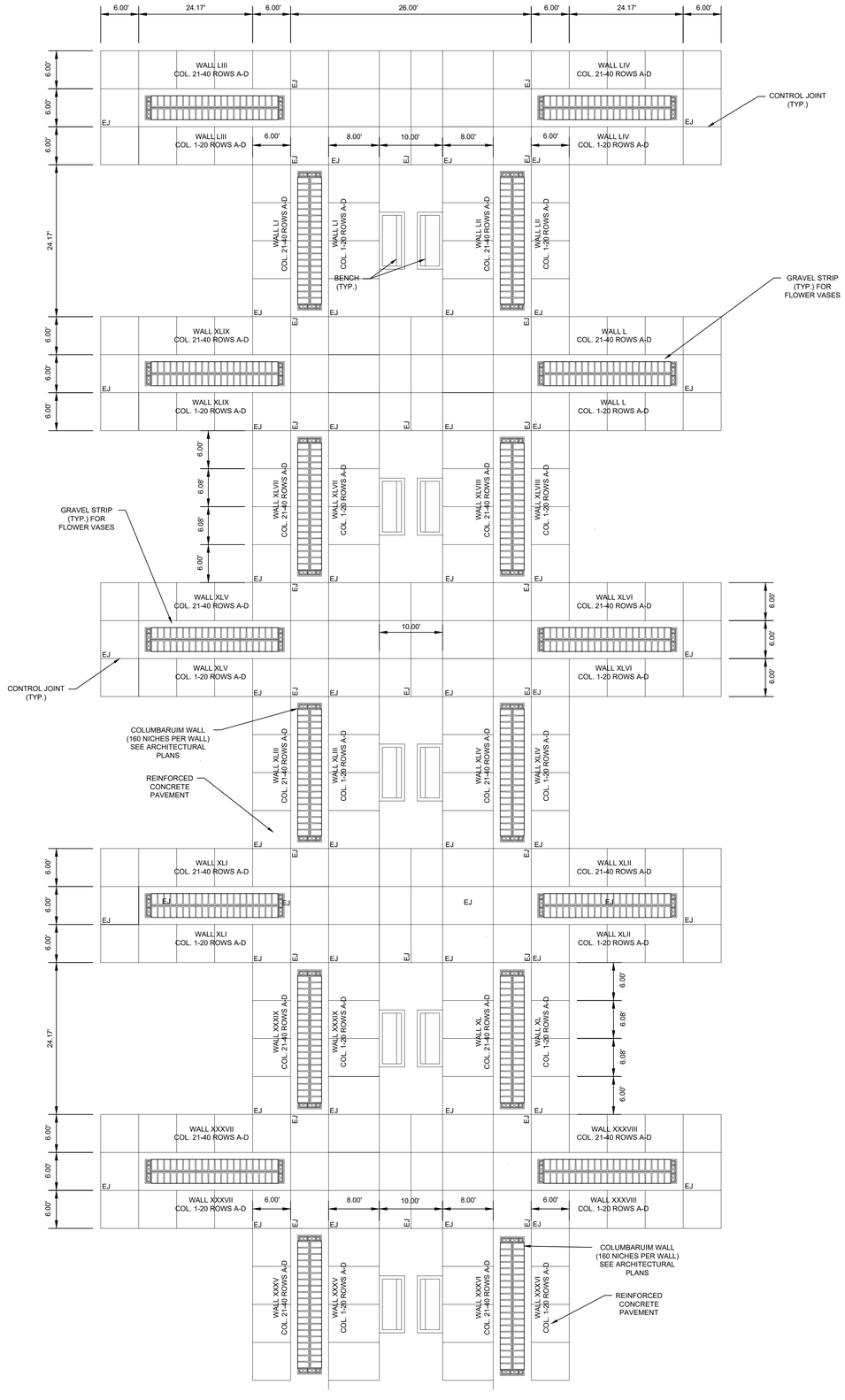

COLUMBARIUM DETAIL - SECTION 4B

NOTES:
1. SEE SHEET C-302 FOR DETAILED GRADING INFORMATION
2. TWENTY (20) WALLS PER COLUMBARIUM, EIGHTY (80) NICHES PER SIDE AND THREE (3) COLUMBARIUM AREAS
3. TOTAL 9,600 NICHES ON PROPOSED SITE
4. SEE ARCHITECTURAL PLANS FOR DETAILED COLUMBARIUM INFORMATION

0 20 40 60

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PENCADER HUNDRED

BEAR, NEW CASTLE COUNTY, DELAWARE

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COLUMBARIUM DETAIL PLAN

Dwg.No.: C-104

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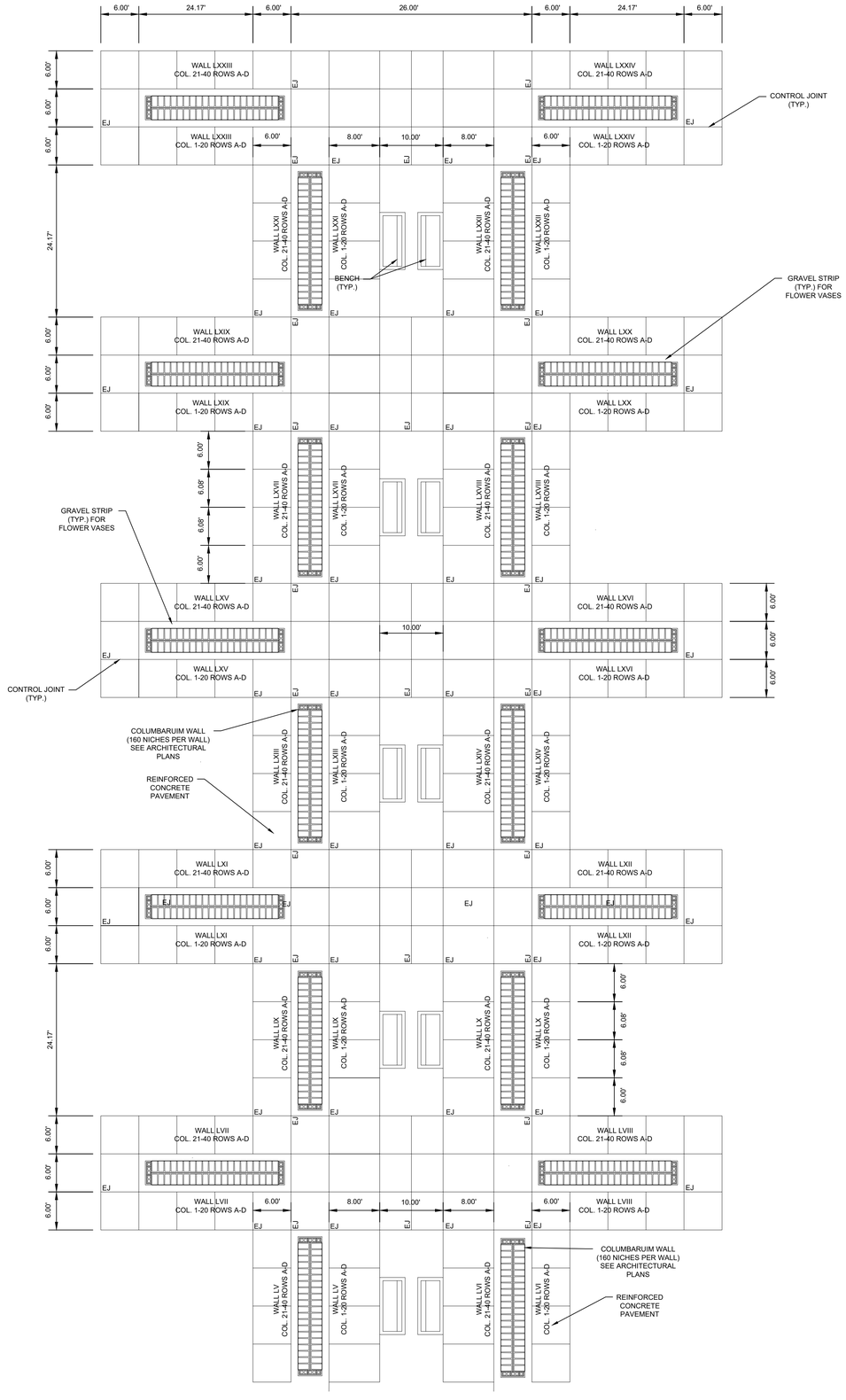

COLUMBARIUM DETAIL - SECTION 4C

NOTES:
1. SEE SHEET C-302 FOR DETAILED GRADING INFORMATION
2. TWENTY (20) WALLS PER COLUMBARIUM, EIGHTY (80) NICHES PER SIDE AND THREE (3) COLUMBARIUM AREAS
3. TOTAL 9,600 NICHES ON PROPOSED SITE
4. SEE ARCHITECTURAL PLANS FOR DETAILED COLUMBARIUM INFORMATION

0 10 20 30

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COLUMBARIUM DETAIL PLAN

Dwg.No.: C-105

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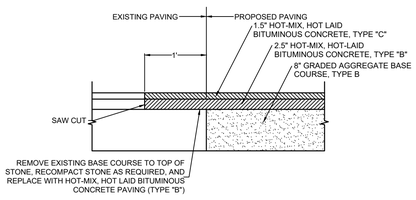
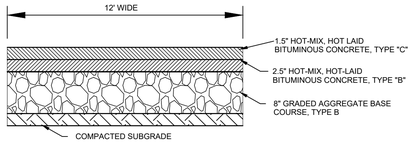


TYPICAL PAVEMENT TIE-IN

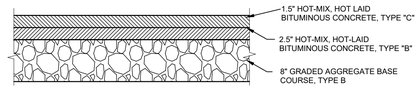
NOT TO SCALE



NOTE:
1. SUBGRADE SHALL BE FIRM AND UNYIELDING
2. CONTRACTOR TO REMOVE 4" OF STONE FROM EXISTING 12" STONE MAINTENANCE ROAD TO ALLOW FOR 2 LIFTS OF BITUMINOUS CONCRETE

MODIFIED MAINTENANCE ROAD SECTION

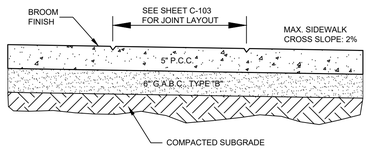
NOT TO SCALE



NOTE: SUBGRADE SHALL BE FIRM AND UNYIELDING

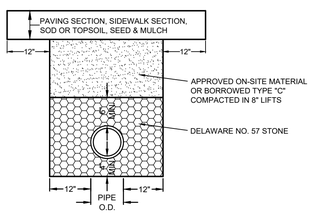
PAVING SECTION DETAIL

NOT TO SCALE



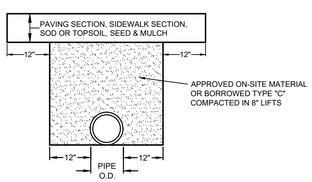
5" PORTLAND CEMENT CONCRETE SIDEWALK DETAIL

NOT TO SCALE



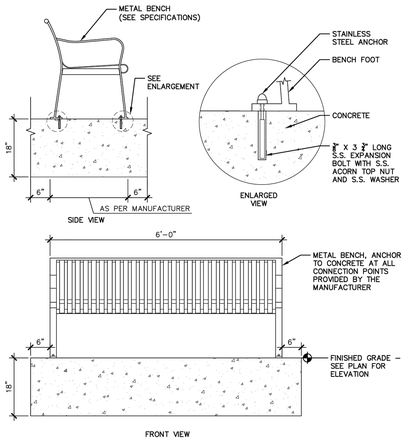
TYPICAL TRENCH DETAIL (HDPE PIPE)

NOT TO SCALE



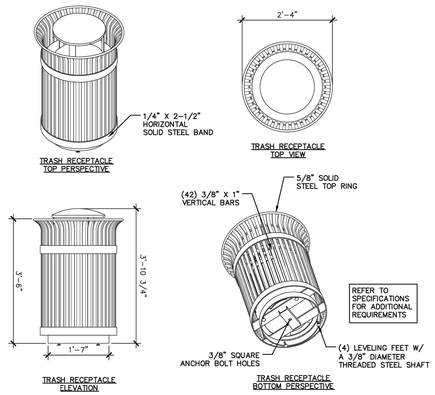
TYPICAL TRENCH DETAIL

NOT TO SCALE



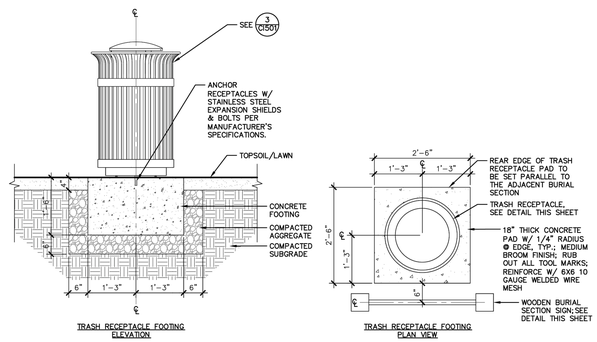
BENCH INSTALLATION DETAILS

NOT TO SCALE



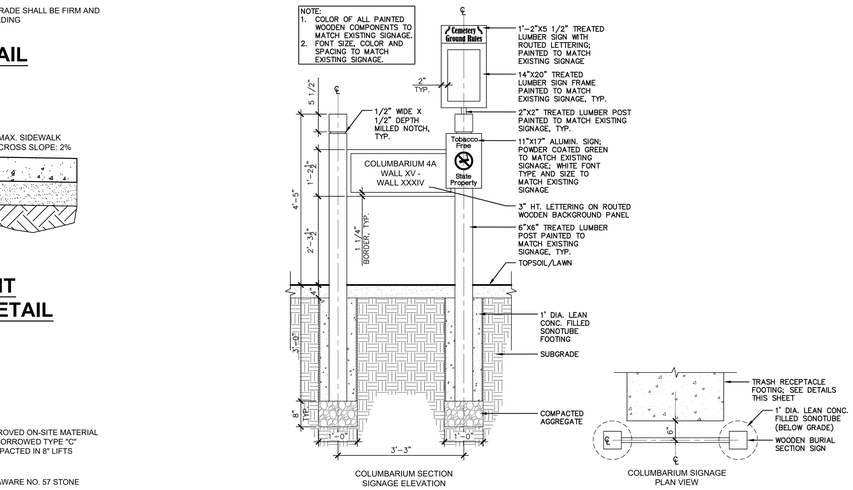
TRASH RECEPTACLE

NOT TO SCALE



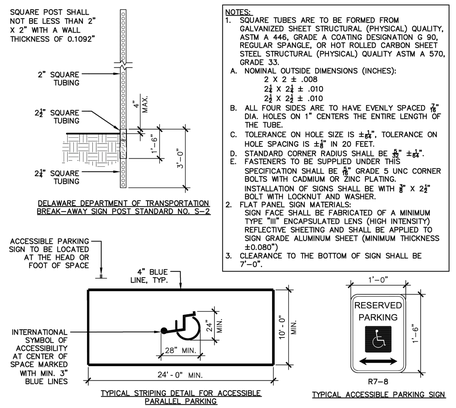
TRASH RECEPTACLE FOOTING

NOT TO SCALE



COLUMBARIUM SIGNAGE

NOT TO SCALE



TYPICAL ACCESSIBLE PARKING SIGNAGE

NOT TO SCALE

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MILFORD, DELAWARE 302.424.1441
SALISBURY, MARYLAND 410.543.9091

DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

CONSTRUCTION DETAILS

Dwg.No.: **C-201**

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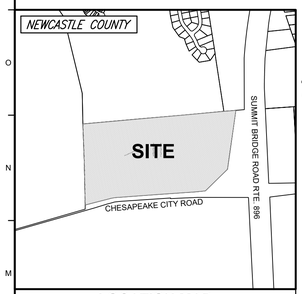
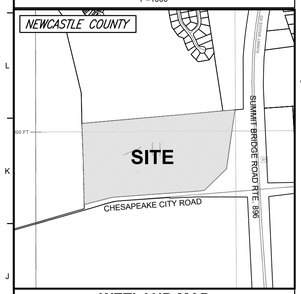
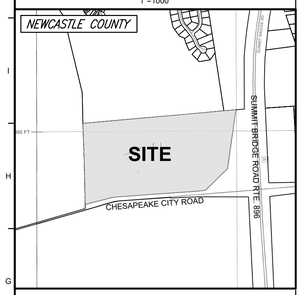
DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
DBF # 0586065.B01
JANUARY 2026
GRADING PLANS



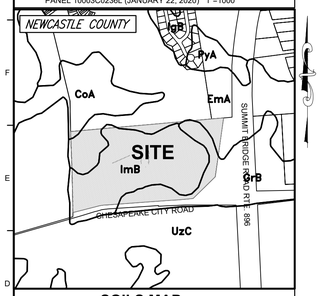
LOCATION MAP
1"=1000'



WETLAND MAP
1"=1000'



FLOODPLAIN MAP
PANEL 10003C0236L (JANUARY 22, 2020) 1"=1000'



SOILS MAP
1"=1000'

SOILS DATA

LABEL	SOIL NAME	TYPE
ImB	INGLESIDE-HAMMONTON-FALLINGSTON COMPLEX	A
GrB	GREENWICH LOAM	B
EmA	ELKTON SILT LOAM	C/D

THE PURPOSE OF THIS PLAN IS TO:

ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY, ADDITIONAL PARKING AND UPGRADE THE ACCESS DRIVE FOR THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING LONGEVITY OF USE.

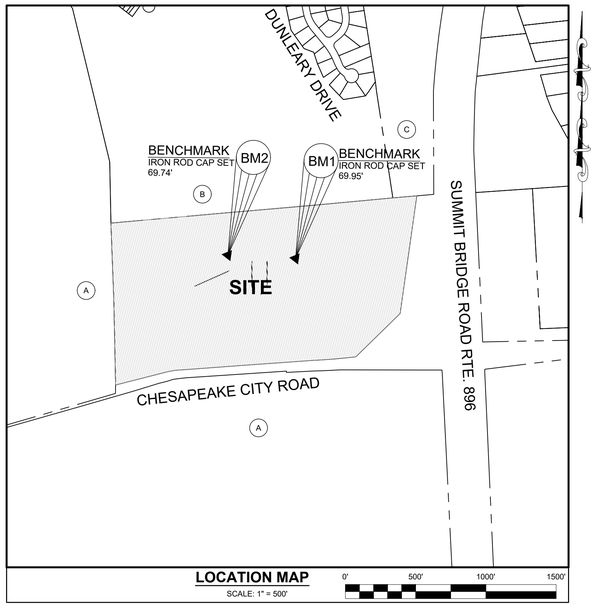
FOR USE BY DEPARTMENT OF LAND USE

DATA COLUMN

1	INSTRUMENT NUMBER	11-050.00-005
2	DEED REFERENCE	BOOK 2016, PAGE 040
3	SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701
4	PLUS NUMBER	N/A
5	ENGINEER: DAVIS, BOWEN & FRIEDEL, INC. 1 PARK AVENUE MILFORD, DE 19963 RING W. LARDNER, P.E. PHONE: (302) 424-1441 EMAIL: rwl@dbfinc.com OWNER: STATE OF DELAWARE 122 MARTIN LUTHER KING BLVD. DOVER, DELAWARE 19901 JENNIFER COVERDALE PHONE: (302) 739-9644 EMAIL: jennifer.coverdale@delaware.gov DEVELOPER: DELAWARE DEPARTMENT OF VETERAN AFFAIRS 802 SILVER LAKE BLVD., SUITE 100 DOVER, DELAWARE 19904 JACQUELINE HAYMAN-CARTER PHONE: (302) 834-4046 EMAIL: jacqueline.hayman-carter@delaware.gov	
6	DATUM	HORIZONTAL: NAD 83 (DE STATE PLANE) VERTICAL: NAVD 88
7	LAND USE	EXISTING: CEMETERY PROPOSED: CEMETERY
8	ZONING	EXISTING: SR-SUBURBAN RESERVE PROPOSED: SR-SUBURBAN RESERVE
9	TOTAL UNITS EXISTING/PROPOSED	EXISTING BUILDINGS: 0 PROPOSED BUILDINGS: 9,600 NICHES
10	BUILDING CONSTRUCTION	IBC: N/A NFPA: N/A
11	UTILITY PROVIDERS	WATER: ARTESIAN SEWER: NEWCASTLE COUNTY
12	FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10003C0236L, DATED JANUARY 22, 2020.
13	TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).
14	GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.
15	WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.
16	WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.
17	SITE COORDINATES	LATITUDE / LONGITUDE N 39.325963 / W 75.443636 N 39.330114 / W 75.444023 N 39.3259.80 / W 75.444407
18	INFILTRATION FACILITY	
19	DISCHARGE LOCATION (EXISTING INLET)	
20	LOD FOR DISCHARGE LOCATION:	2.40 AC
21	REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN -FIRE MARSHAL PLAN -ARCHITECTURAL ACCESSIBILITY BOARD
22	SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026

LEGEND

EX. BUILDING	PROPERTY LINE
EX. SIDEWALK	PR. LIMIT OF DISTURBANCE
EX. FENCE	PR. LIMIT OF DISTURBANCE/SILT FENCE
EX. SEWER MAIN	PR. BUILDING
EX. WATER LINE	PR. CURB
EX. GAS LINE	PR. SIDEWALK
EX. ELECTRIC LINE	PR. SANITARY SEWER & MANHOLE
EX. TELECOMMUNICATIONS LINE	PR. UNDERGROUND ELECTRIC LINE
EX. FIRE HYDRANT	PR. FULL-DEPTH ASPHALT PAVEMENT
EX. TREE	PR. MILL & OVERLAY PAVEMENT
EX. GROUND LIGHT	PR. SIGN
EX. LIGHT POLE	PR. SWALE BOTTOM LINE
EX. SIGN	PR. FIRE HYDRANT ASSEMBLY
EX. PAVEMENT	PR. WATER VALVE
EX. WOODSLINE	PR. REDUCER
EX. FLOODZONE LINE	PR. TREE RELOCATION AREA
EX. ZONING LINE	
EX. WETLANDS LINE	
EX. OVERHEAD LINE	PR. WATER LINES
EX. TELEPHONE BOX	



LOCATION MAP
SCALE: 1" = 500'

BENCHMARK INFORMATION

BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563654.85	69.74

INDEX OF SHEETS

GENERAL	
C-301	GRADING TITLE SHEET
C-302	OVERALL GRADING PLAN
C-303	GRADING PLAN
C-304	GRADING PLAN
C-305	GRADING PLAN

GENERAL CONSTRUCTION NOTES

1. ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS, DATED JANUARY 2025, AND/OR THE DELDOT STANDARD DETAILS, LATEST REVISION, OR AS MODIFIED BY THESE PLANS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK (2023).
3. MATCH PROPOSED PAVING TO EXISTING PAVING ELEVATIONS WHERE THEY ADJOIN.
4. SAW CUT AT THE JUNCTION FOR ALL EXISTING PAVEMENT AND FOR ALL PAVEMENT REMOVAL.
5. PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-282-8555 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
7. DAVIS, BOWEN, & FRIEDEL, INC. MAKES NO GUARANTEE AS TO THE EXISTENCE OR NON-EXISTENCE, LOCATION, DEPTH, SIZE OR CONDITION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN NOT ACCESSIBLE FROM THE SURFACE OF THE GROUND. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AT THE TIME THE PLAN WAS PREPARED. THE CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMPANIES INVOLVED.

   IT IS THE RESPONSIBILITY OF THE OWNER, OR HIS CONTRACTOR, TO VERIFY AND ALLOW FOR THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES WITHIN THE WORK AREA SHOWN ON THIS PLAN. THE CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION OR OTHER CONSTRUCTION AROUND OR IMMEDIATELY ADJACENT TO EXISTING UTILITIES WITHOUT NOTIFYING THE UTILITY OWNERS(S) AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF THE START OF EXCAVATION OR CONSTRUCTION. TEST PITS FOR UTILITY LOCATIONS MAY OR MAY NOT BE REQUIRED.

   PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THE CONTRACTOR EXCAVATE IN THE AREA OF ANY POTENTIAL UTILITY CROSSING TO VERIFY THAT THE UTILITY WILL NOT INTERFERE WITH CONSTRUCTION. IF, AFTER UNCOVERING THE UTILITY, THERE IS ANY QUESTION CONCERNING A POSSIBLE CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPETENTLY REPAIRED AT HIS EXPENSE.
8. EXISTING AERIAL UTILITIES ARE NOT SHOWN.
9. ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE POLICIES, ETC. REQUIRED BY LOCAL STATE AND/OR FEDERAL LAWS SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.

GENERAL CONSTRUCTION NOTES (CONT.)

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS SUFFICIENT COVER ON ALL PIPING DURING CONSTRUCTION TO PREVENT FAILURE OF PIPES.
11. ALL SIGNING, TRAFFIC CONTROL AND SAFETY SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL OF THE DIVISION OF HIGHWAYS. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL PROPOSED SIGNAGE TO REQUIRE A SEPARATE PERMIT FROM SUSSEX COUNTY.
12. PAINT STRIPING AND GRAPHICS FOR LONGITUDINAL STRIPING SHALL BE RESIGN PAINT. LATERAL STRIPING/SHAPES SHALL BE ALKYD THERMOPLASTIC TAPE/SYMBOL.
13. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTION SHALL BE MARKED IN ACCORDANCE WITH DELAWARE STATE FIRE PREVENTION REGULATIONS AND PER THE APPROVED FIRE MARSHAL SITE PLAN.
14. ALL PROPOSED UNDERGROUND UTILITIES SHALL BE MARKED WITH 6-INCH WIDE (MIN.) METALLIC MARKING TAPE OF APPROPRIATE COLOR AND MESSAGE TO CONFORM TO UTILITY BURIED BENEATH IT AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
15. ALL UTILITY EXCAVATION SHALL BE KEPT DRY AT ALL TIMES.
16. 4" PVC PIPE SLEEVES TO BE PROVIDED FOR ALL SIGNS IN SIDEWALK AREAS.
17. ALL AREAS NOT COVERED BY PAVING OR BUILDING SHALL RECEIVE 6" MINIMUM OF TOPSOIL, SEED, AND STRAW MULCH OR MATTING (AS APPLICABLE) AS SOON AS FINAL GRADING IS COMPLETE.
18. NO DEBRIS SHALL BE BURIED ON SITE.
19. ANY EXCESS EXCAVATION AND TOPSOIL SHALL BE REMOVED FROM THE SITE.
20. PROVIDE EROSION CONTROL MATTING ON ALL SLOPES 3:1 OR STEEPER AND IN ALL OPEN CHANNELS.
21. CONCRETE SIDEWALKS SHALL BE 3,000 PSI PORTLAND CEMENT CONCRETE, 4" THICK, ON 4" GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE NOTED.
22. MINIMUM COMPACTION SHALL BE AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
23. TOTAL LIMIT OF DISTURBANCE: XXX,XXX± S.F. (X.XXx AC.)
24. EARTHWORK FROM BULK GRADING IS PROPOSED TO LEAVE THE PROJECT SITE. NET CUT = 2,300CY.

Know what's **below.**
Call before you dig.
MISS UTILITY PHONE 1-800-282-8555
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

"THE TOTAL LAND DISTURBACE PROPOSED BY THIS PLAN IS 104,590 SQUARE FEET."

IMPORTANT - DO NOT DISTRIBUTE
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ADJACENT PROPERTY OWNERS

	PARCEL#	PLAT #	OWNER	ADDRESS	DEED	ZONING
A	11-054.00-001		U.S. OF AMERICA	3726 SUMMIT BRIDGE ROAD BEAR, DE 19701	I60 / 264	SR-SUBURBAN RESERVE
B	11-046.40-262		BRENNAN ESTATES	0 BRENNAN BLVD, BEAR, DE 19701	20010703 / 0053386	NC6.5-SINGLE FAMILY / NCTH-TOWNHOUSES
C	11-047.00-025		STATE OF DELAWARE	0 SUMMIT BRIDGE ROAD BEAR, DE 19701	G65 / 449	S-SUBURBAN

ENGINEER'S STATEMENT

"I, THE UNDERSIGNED, HEREBY STATE THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE AND THAT ALL OF THE INFORMATION ON THIS PLAN IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY ACCEPTED SURVEYING STANDARDS AND PRACTICES AND BY THE NEW CASTLE COUNTY UNIFIED DEVELOPMENT CODE."

RING W. LARDNER, P.E. — DATE
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVENUE
MILFORD, DELAWARE, 19963

OWNER'S STATEMENT

"I, UNDERSIGNED, HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY WHICH IS THE SUBJECT OF THIS PLAN AND THAT THE LAND USE ACTION PROPOSED BY THIS PLAN IS MADE AT MY DIRECTION AND THAT I AUTHORIZE THIS PLAN TO BE APPROVED PURSUANT TO THE SITE PLAN DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION PLAN IN ACCORDANCE WITH THE REGULATIONS OF THE NEW CASTLE COUNTY UNIFIED DEVELOPMENT CODE."

JENNIFER COVERDALE — DATE
STATE OF DELAWARE
122 MARTIN LUTHER KING BLVD.
DOVER, DELAWARE 19901

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MILFORD, DELAWARE 302.424.1441
SALISBURY, MARYLAND 410.543.9091

DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS | DATE

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

GRADING TITLE SHEET

Dwg.No.: **C-301**

L:\0586 State of Delaware\06B065 B01 Columbarium\DESIGN\TITLE SHEETS.dwg Jan 30, 2026 - 2:38pm larr

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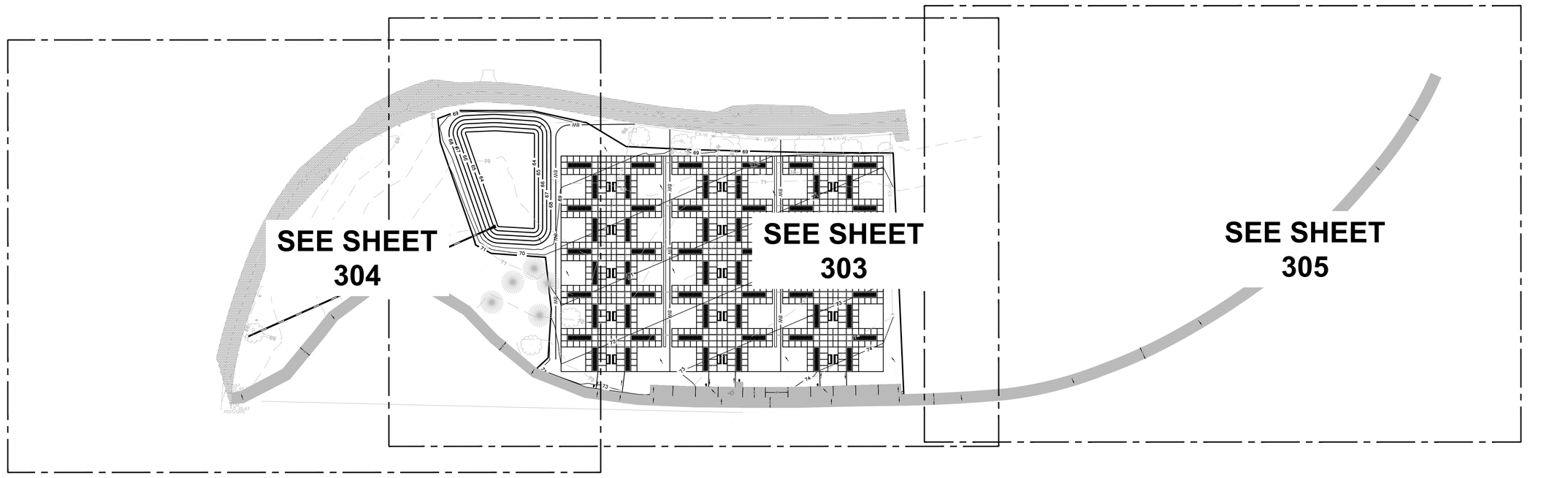

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: 1"=50'
Dwn.By: CLB
Proj.No.: 0586B065.B01

OVERALL GRADING PLAN

Dwg.No.: **C-302**

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INSTALL 186 L.F. OF 2' WIDE STONE LEVEL SPREADER W/ 6" PERFORATED HDPEP INV.: 66.66

INSTALL 186 L.F. OF 2' WIDE STONE LEVEL SPREADER W/ 6" PERFORATED HDPEP INV.: 67.65

EXISTING PARALLEL PARKING

EXISTING PAVED DRIVE

PLACE 8.5 L.F. 6" HDPEP @0.010 (TYP.)

PLACE 4" PERF. HDPEP (TYP.)

CLEANOUT #1 TOP: 72.19 INV.: 66.75

CLEANOUT #2 TOP: 71.46 INV.: 66.75

CLEANOUT #3 TOP: 70.72 INV.: 66.75

CLEANOUT #4 TOP: 69.99 INV.: 66.75

CLEANOUT #5 TOP: 69.25 INV.: 66.75

CLEANOUT #6 TOP: 69.43 INV.: 66.75

CLEANOUT #7 TOP: 70.16 INV.: 66.75

CLEANOUT #8 TOP: 70.90 INV.: 66.75

CLEANOUT #9 TOP: 71.63 INV.: 66.75

CLEANOUT #10 TOP: 72.37 INV.: 66.75

CLEANOUT #11 TOP: 73.18 INV.: 67.74

CLEANOUT #12 TOP: 72.44 INV.: 67.74

CLEANOUT #13 TOP: 71.71 INV.: 67.74

CLEANOUT #14 TOP: 70.97 INV.: 67.74

CLEANOUT #15 TOP: 70.24 INV.: 67.74

SEE SHEET C-304 FOR CONTINUATION

SEE SHEET C-305 FOR CONTINUATION

EX.71.35
EX.71.44
EX.71.89
EX.71.97
EX.73.25
EX.73.36
EX.73.19
EX.73.53
EX.74.35
EX.74.95
EX.75.50
EX.75.20

EXISTING GRAVEL MAINTENANCE ROAD

REMOVE 4" OF STONE FROM EXISTING MAINTENANCE ROAD. ADD 1½" & 2½" PAVING LIFTS OF TYPE C AND TYPE B HOT MIX AS REPLACEMENT. WORK TO EXTEND ENTIRE LENGTH OF ROAD. SEE DETAIL ON SHEET C-103.

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0 20 40 60

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DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION

PENCADER HUNDRED

BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: 1"=20'
Dwn.By: CLB
Proj.No.: 0586B065.B01

GRADING PLAN

Dwg.No.: C-303

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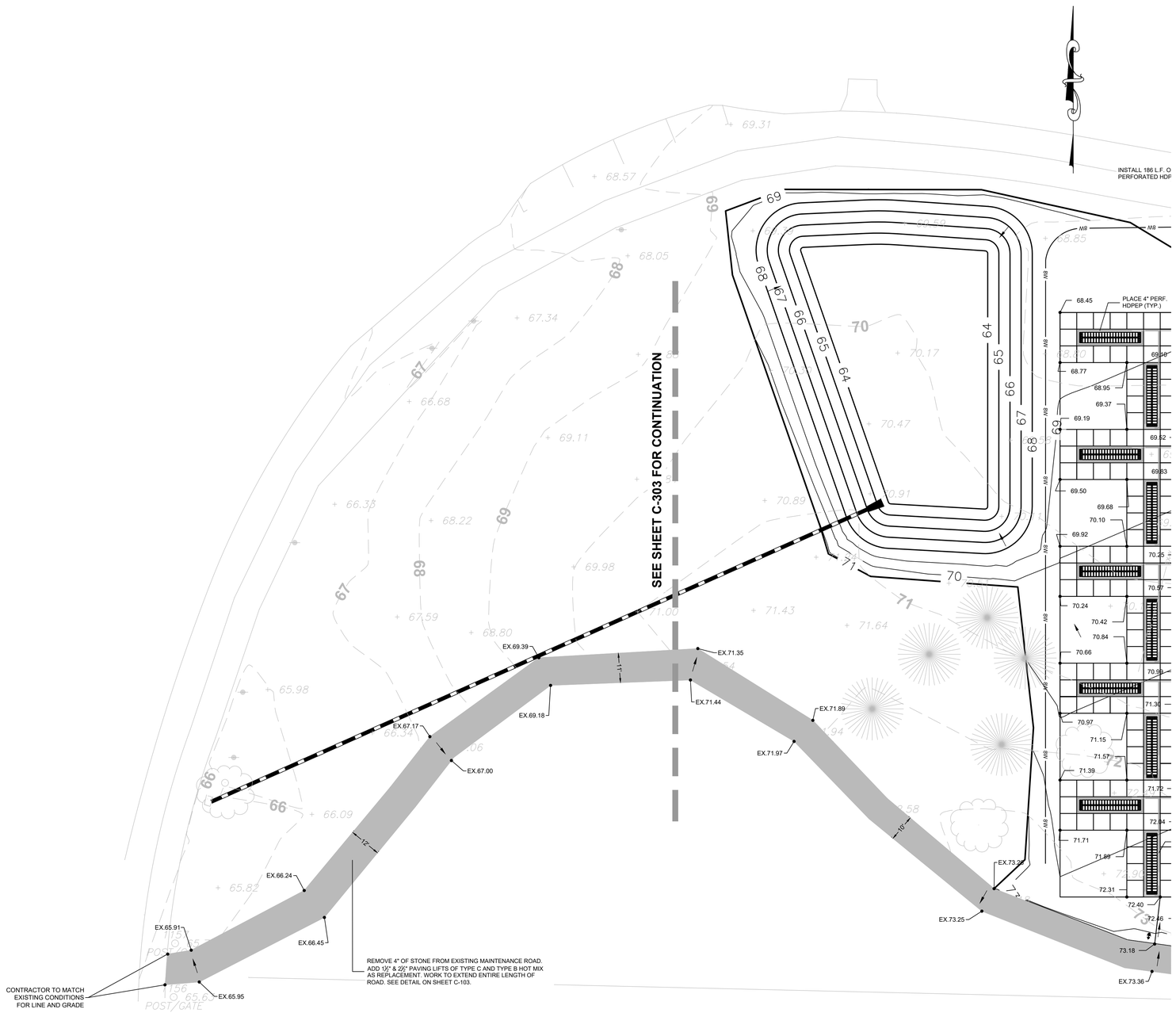

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BALTIMORE, MARYLAND 410.543.9091

DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS

DATE

Date: JANUARY 2026

Scale: 1"=20'

Dwn.By: CLB

Proj.No.: 0586B065.B01

GRADING PLAN

Dwg.No.: **C-304**

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CONTRACTOR TO MATCH EXISTING CONDITIONS FOR LINE AND GRADE

REMOVE 4" OF STONE FROM EXISTING MAINTENANCE ROAD. ADD 1½" & 2½" PAVING LIFTS OF TYPE C AND TYPE R HOT MIX AS REPLACEMENT. WORK TO EXTEND ENTIRE LENGTH OF ROAD. SEE DETAIL ON SHEET C-103.

EX.74.00
EX.73.90
EX.75.00
EX.74.80
EX.75.50
EX.75.30
EX.76.00
EX.75.80
EX.76.00
EX.75.90
EX.76.40
EX.76.20
EX.76.00
EX.75.80
EX.76.00
EX.75.50
EX.76.00
EX.75.50
EX.75.50
EX.75.20

11'

70 71 72 73 74 75 76

SEE SHEET C-303 FOR CONTINUATION

FOR USE BY DEPARTMENT OF LAND USE

0 20 40 60

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DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION

PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: 1"=20'
Dwn.By: CLB
Proj.No.: 0586B065.B01

GRADING PLAN

Dwg.No.: **C-305**

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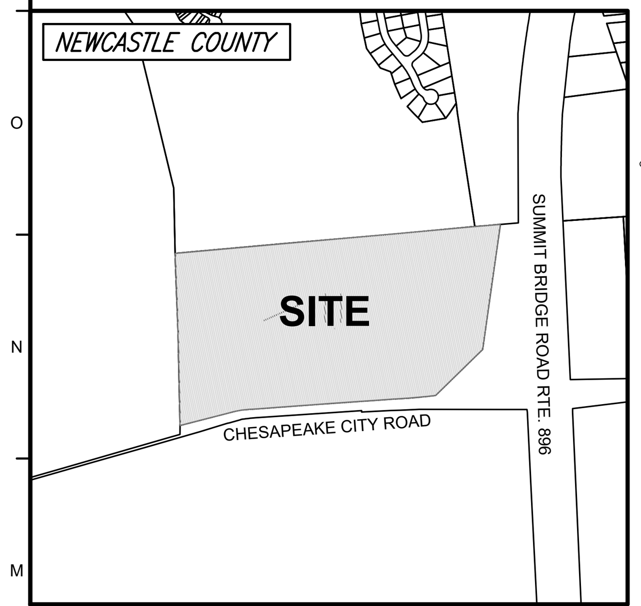
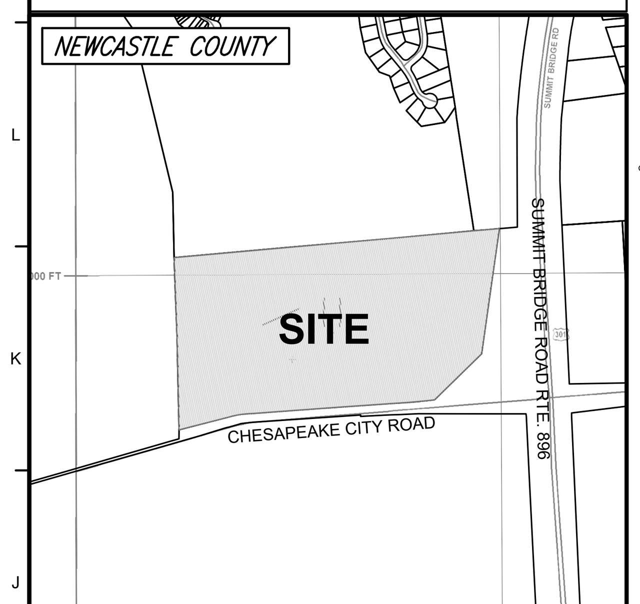
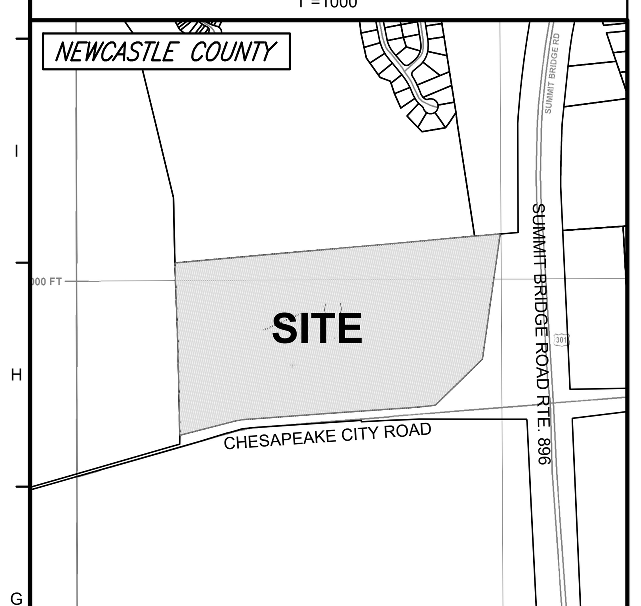


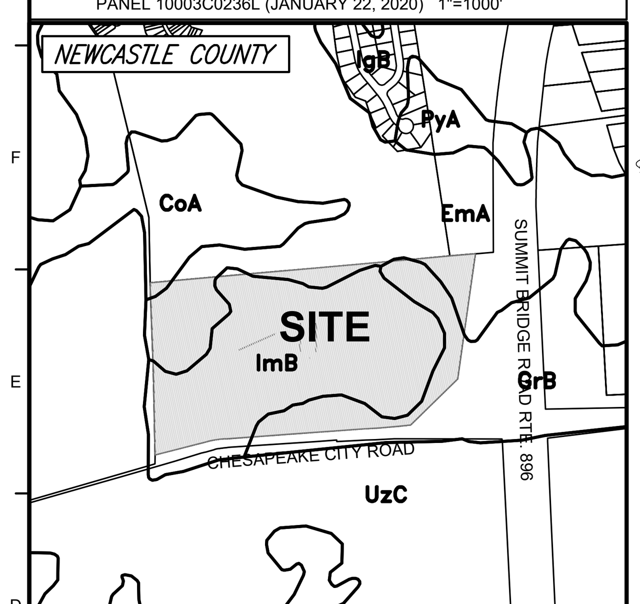
LOCATION MAP
1"=1000'



WETLAND MAP
1"=1000'



FLOODPLAIN MAP
PANEL 10003C0236L (JANUARY 22, 2020) 1"=1000'



SOILS MAP
1"=1000'

SOILS DATA

LABEL	SOIL NAME	TYPE
ImB	INGLESIDE-HAMMONTON-FALLINGSTON COMPLEX	A
GrB	GREENWICH LOAM	B
EmA	ELKTON SILT LOAM	C/D

THE PURPOSE OF THIS PLAN IS TO:

ADD ADDITIONAL COLUMBARIUM TO THE CEMETERY, ADDITIONAL PARKING AND UPGRADE THE ACCESS DRIVE FOR THE DELAWARE VETERANS MEMORIAL CEMETERY PROVIDING LONGEVITY OF USE.

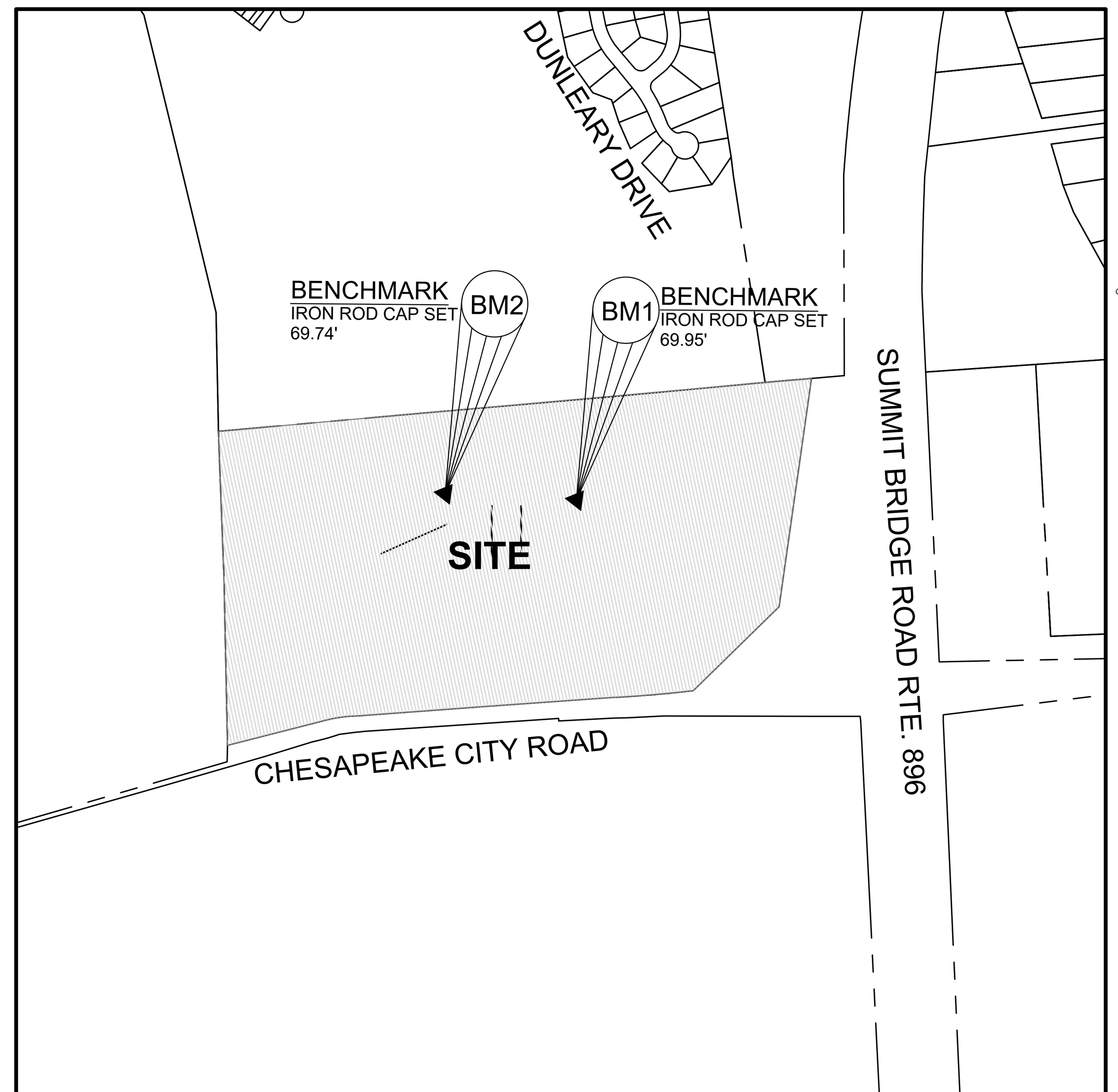
DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
C&D CANAL WEST / CHESAPEAKE BAY WATERSHED
PENCADER HUNDRED
DBF # 0586065.B01
JANUARY 2026
SEDIMENT AND STORMWATER CONSTRUCTION PLANS
DNREC PROJECT # 2025-117

DATA COLUMN

1	INSTRUMENT NUMBER	11-050.00-005		
2	DEED REFERENCE	BOOK 2016, PAGE 040		
3	SITE ADDRESS	2465 CHESAPEAKE CITY ROAD, BEAR, DE, 19701		
4	PLUS NUMBER	N/A		
5	ENGINEER DAVIS, BOWEN & FRIEDEL, INC. 1 PARK AVENUE MILFORD, DE 19963 RING W. LARDNER, P.E. PHONE: (302) 424-1441 EMAIL: rwl@dbfinc.com	OWNER STATE OF DELAWARE 122 MARTIN LUTHER KING BLVD. DOVER, DELAWARE 19901 JENNIFER COVERDALE PHONE: (302) 739-5644 EMAIL: jennifer.coverdale@delaware.gov		DEVELOPER DELAWARE DEPARTMENT OF VETERAN AFFAIRS 802 SILVER LAKE BLVD., SUITE 100 DOVER, DELAWARE 19904 JACQUELINE HAYMAN-CARTER PHONE: (302) 834-4046 EMAIL: jacqueline.hayman-carter@delaware.gov
6	DATUM	HORIZONTAL NAD 83 (DE STATE PLANE)		VERTICAL NAVD 88
7	LAND USE	EXISTING CEMETERY	PROPOSED CEMETERY	
8	ZONING	EXISTING SR-SUBURBAN RESERVE	PROPOSED SR-SUBURBAN RESERVE	
9	TOTAL UNITS EXISTING/PROPOSED	EXISTING BUILDINGS 0	PROPOSED BUILDINGS 9,600 NICHES	
10	BUILDING CONSTRUCTION	IBC N/A	NFPA N/A	
11	UTILITY PROVIDERS	WATER ARTESIAN		SEWER NEWCASTLE COUNTY
12	FLOODPLAIN	THIS PROPERTY IS NOT IMPACTED BY THE 100-YEAR FLOODPLAIN AS DETERMINED BY FEMA PANEL 10003C0236L, DATED JANUARY 22, 2020.		
13	TRANSPORTATION IMPROVEMENT DISTRICT (TID)	THE PROPERTY IS NOT LOCATED IN A TRANSPORTATION IMPROVEMENT DISTRICT (TID).		
14	GROUNDWATER RECHARGE	ALL OF THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.		
15	WELLHEAD PROTECTION AREA	ALL OF THE PROPERTY IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.		
16	WETLANDS	ALL OF THE PROPERTY IS NOT IMPACTED BY STATE AND/OR FEDERALLY REGULATED WETLANDS.		
17	SITE COORDINATES		LATITUDE N 39.325963	LONGITUDE W 75.443636
18	INFILTRATION FACILITY		N 39.330114	W 75.444023
19	DISCHARGE LOCATION (EXISTING INLET)		N 39.3259.80	W 75.444407
20	LOD FOR DISCHARGE LOCATION:	2.40 AC		
21	REQUIRED PLAN APPROVALS	BEFORE ACTIVE CONSTRUCTION BEGINS, THESE PLANS SHALL BE SUBJECT TO APPROVALS BY, BUT NOT LIMITED TO, THE FOLLOWING REGULATORY ENTITIES: - NEW CASTLE COUNTY ENGINEERING - GRADING PLAN - DNREC - SEDIMENT AND STORMWATER PLAN -FIRE MARSHAL PLAN -ARCHITECTURAL ACCESSIBILITY BOARD		
22	SURVEY DATE	DBF SURVEY COMPLETED DECEMBER 2026		

INDEX OF SHEETS

GENERAL	
C-401	SSM TITLE SHEET
C-402	SSM PRE-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
C-403	SSM CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN
C-404	SSM CONSTRUCTION DETAILS
C-405	SSM CONSTRUCTION DETAILS
C-406	SSM CONSTRUCTION DETAILS
C-407	SSM CONSTRUCTION DETAILS
C-408	SSM CONSTRUCTION DETAILS
C-409	SSM POST CONSTRUCTION PLAN



LOCATION MAP
SCALE: 1" = 500'
0' 500' 1000' 1500'

LEGEND

SF	SILT FENCE DETAIL: SHEET C-407
LOD	LIMIT OF DISTURBANCE
LOD/SF	LIMIT OF DISTURBANCE / SILT FENCE
CFL	COMPOST FILTER LOG (8" DIA., 3-MIL HDPE) FILTREXX SILT SOXX OR APPROVED EQUAL DETAIL: SHEET C-407
SAP	SENSITIVE AREA PROTECTION DETAIL: SHEET C-407
MH 103, P 103	CATCH BASIN, STORM DRAIN, FLOW ARROW, MANHOLE & LABELS
	SWALE
TEMPORARY STOCKPILE AREA (SF)	TEMPORARY STOCKPILE AREA DETAIL: SHEET C-407
IP1	INLET PROTECTION TYPE-1 DETAIL: SHEET C-407
IP2	INLET PROTECTION TYPE-2 DETAIL: SHEET C-407
CW	CONCRETE WASHOUT DETAIL: SHEET C-408
SCE	STABILIZED CONSTRUCTION ENTRANCE DETAIL: SHEET C-408
SM-C	STABILIZATION MATTING - CHANNEL TYPE: SSM-1, NORTH AMERICAN GREEN SC150BN (OR APPROVED EQUAL) DETAIL: SHEET C-408
	AREA OF NEW ASPHALT
PP-1	PUMPING PIT TYPE 1 - (BACKUP DEWATERING) DETAIL: SHEET C-406
GB	GEOTEXTILE DEWATERING BAG DETAIL: SHEET C-406

811 Know what's below. Call before you dig.
MISS UTILITY PHONE 1-800-282-8555
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

BENCHMARK INFORMATION

BM#	DESCRIPTION	LOCATION	ELEVATION
1	IRCS	N: 564,862.97 E: 564,135.73	69.95
2	IRCS	N: 564,886.33 E: 563654.85	69.74

OWNER'S CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHOULD BE DONE PURSUANT TO THE APPROVED PLAN AND THAT RESPONSIBLE PERSONNEL (I.E., BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ONSITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCE ON THIS COVERSHEET.

JENNIFER COVERDALE — DATE
STATE OF DELAWARE
122 MARTIN LUTHER KING, JR. BLVD
DOVER, DE 19901

ENGINEER'S STATEMENT

I, HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.

RING W. LARDNER, P.E. — DATE
DAVIS, BOWEN & FRIEDEL, INC.
1 PARK AVENUE
MILFORD, DELAWARE, 19963

SEDIMENT AND STORMWATER CONSTRUCTION NOTES:

1. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHALL BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURE OR GRADING, A PRE CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, CONTRACTOR, AND THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
3. REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
4. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR DELEGATED AGENCY.
5. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
6. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
7. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
8. APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.
9. POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE DEPARTMENT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
10. APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
11. THE NOTICE OF INTENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS #7906. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
12. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
13. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
14. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
15. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL. C. CH 60 AND THE CURRENT DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).
16. DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.
17. THE DEPARTMENT MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.
18. WHEN DIRECTED BY THE DEPARTMENT, THE OWNER SHALL ACQUIRE THE SERVICES OF A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) TO PERFORM WEEKLY CONSTRUCTION REVIEWS. SEDIMENT AND STORMWATER MANAGEMENT PLANS APPROVED BY THE DEPARTMENT SHALL HAVE A THIRD PARTY CCR .
19. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND REPAIR ALL EROSION, SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES DURING UTILITY INSTALLATION AND SITE CONSTRUCTION.
20. IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER TO MAINTAIN AND REPAIR ALL EROSION. SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES AFTER COMPLETION AND APPROVAL OF ALL STORMWATER MANAGEMENT PRACTICES.
21. UNLESS OTHERWISE SPECIFIED, TEMPORARY VEGATIVE STABILIZATION SHALL USE SEED MIX NO. 5 AND PERMANENT VEGATATIVE STABILIZATION SHALL USE SEED MIX NO. 7.
22. TEMPORARY VEGETATIVE COVER, MULCHING AND/OR SPRINKLING WITH WATER SHALL BE THE METHODS USED AS NECESSARY TO CONTROL DUST.
23. EROSION CONTROL MATTING IS REQUIRED ON SLOPES OF 3:1 OR GREATER AND IN AREAS OF CONCENTRATED FLOW. STABILIZATION MATTING, WHERE REQUIRED, SHALL BE NORTH AMERICAN GREEN SC150BN OR DNREC TYPE SSM-III.
24. ALL RIPRAP SHALL BE UNDERLAIN WITH MIRAFI 600X GEOTEXTILE OR DNREC TYPE GS-1.
25. EXCESS TOPSOIL TO BE RELOCATED OFF-SITE AND STABILIZED IN ACCORDANCE WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK.
26. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
27. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

STABILIZATION CONDITIONS:

1. FOLLOWING INITIAL SOIL DISTRIBUTION OR REDISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION WITH SEED AND MULCH SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS TO THE SURFACE OF ALL DISTURBED AREAS NOT ACTIVELY UNDER CONSTRUCTION.
2. SPECIFIC STABILIZATION RECOMMENDATIONS MAY BE FOUND IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, 3.4.3 STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

DNREC APPROVAL BOX — NOI# 7906

LIMIT OF DISTURBANCE
TOTAL: 2.40± ACRES

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS · ENGINEERS · SURVEYORS
EASTON, MARYLAND 410.770.4744
MILFORD, DELAWARE 302.424.1441
SALISBURY, MARYLAND 410.543.9091

DELAWARE VETERANS CEMETERY COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS
Date:	JANUARY 2026
Scale:	AS SHOWN
Dwn.By:	CLB
Proj.No.:	0586B065.B01

SSM TITLE SHEET

Dwg.No.: **C-401**

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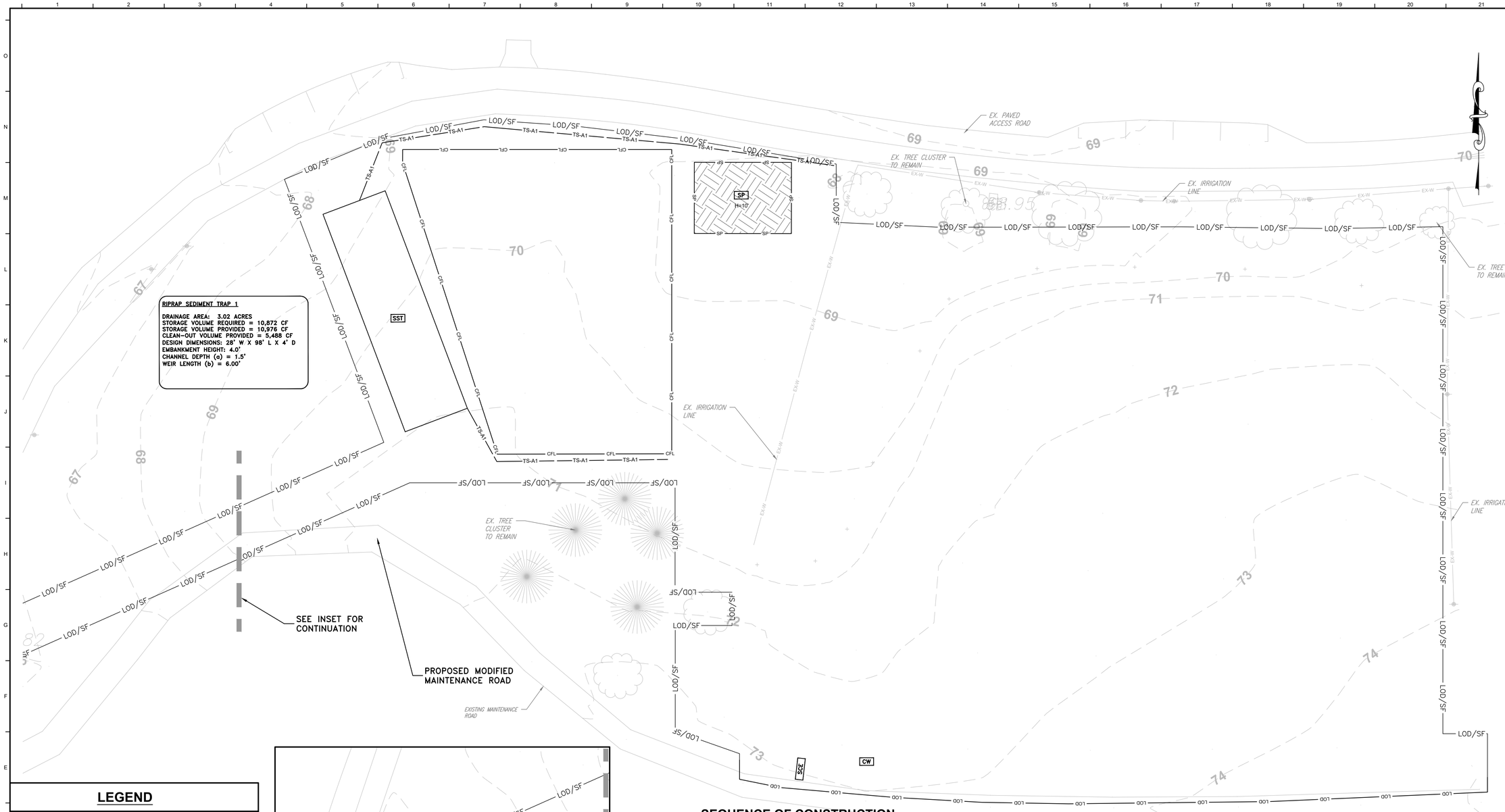

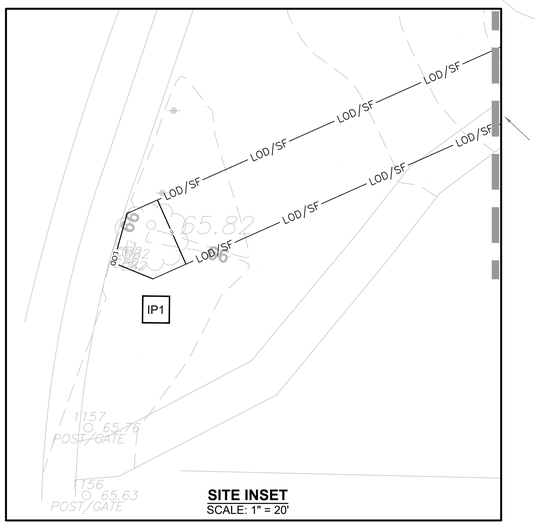

SITE INSET
SCALE: 1" = 20'

LEGEND

4	EXISTING TOPO
	BOUNDARY LINE
	EXISTING TREELINE
	EDGE OF PAVEMENT
4	PROPOSED TOPO
ROP-2	RIPRAP OUTLET PROTECTION - TYPE 2
SCE	STABILIZED CONSTRUCTION ENTRANCE
CW	CONCRETE WASHOUT
LOD	LIMIT OF DISTURBANCE (XX.XX+/-)
SF	SILT FENCE
SSF	SUPER SILT FENCE
LOD/SF	LIMIT OF DISTURBANCE/SILT FENCE
LOD/SSF	LIMIT OF DISTURBANCE/ SUPER SILT FENCE
WET	WETLANDS LINE
SP	SOIL STOCKPILE
SST	STONE OUTLET SEDIMENT TRAP
TS-A1	TEMPORARY SWALE TYPE A-1

SEQUENCE OF CONSTRUCTION

1. NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE DNREC CONSTRUCTION SITE INSPECTOR. THE LANDOWNER/DEVELOPER, CONTRACTOR, THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER, AND THE GEOTECH/SOIL SCIENTIST OF RECORD ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
3. THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA AT 1-800-282-8555 FOR UTILITY LOCATIONS WITHIN AND SURROUNDING CONSTRUCTION AREAS NOT LESS THAN 3 DAYS BEFORE PERFORMING ANY EXCAVATION.
4. ESTABLISH STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY STOCKPILE AREAS FOR BORROW MATERIAL AND PERIMETER CONTROLS.
5. PROTECT THE INFILTRATION FACILITY AREA BY SURROUNDING WITH COMPOST FILTER LOGS AND SENSITIVE AREA PROTECTION. KEEP HEAVY CONSTRUCTION TRAFFIC OUTSIDE OF THESE AREAS.
6. INSTALL SEDIMENT TRAP 1
   6.1 INSTALL TEMPORARY SWALES INTO SEDIMENT TRAP
   6.2 STABILIZATION OF THE SEDIMENT TRAP SIDE SLOPES ARE REQUIRED PRIOR TO FURTHER CONSTRUCTION.
   6.3 COMPLETE GEOTECHNICAL INVESTIGATION AND INFILTRATION TESTING FOR PROPOSED INFILTRATION POND.
7. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE DNREC CONSTRUCTION SITE INSPECTOR AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION. THE CONTRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
8. DEVIATION FROM THE APPROVED SEQUENCE OF CONSTRUCTION REQUIRES WRITTEN APPROVAL FROM DNREC.
9. BEGIN DEMOLITION, CLEARING, AND GRUBBING. MINIMIZE CLEARING AND GRADING OPERATIONS TO AREAS NECESSARY FOR IMMEDIATE CONSTRUCTION ACTIVITY.
10. ROUGH GRADE ALL AREAS AS SHOWN ON GRADING PLANS TO PROMOTE DRAINAGE TO SEDIMENT TRAP.
11. FINE GRADE PAVED AND COLUMBARIUM AREAS.
12. INSTALL CONCRETE AND COLUMBARIUM WALLS.
14. PAVE MAINTENANCE DRIVE AND PARKING BAYS.
16 STABILIZE ANY REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES.
17. NOTIFY THE DNREC SITE INSPECTOR AND CCR AT LEAST (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION; STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT THEIR CONSTRUCTION.
18. ONCE SURROUNDING AREAS HAVE BEEN STABILIZED WITH STONE AND WITH PERMISSION OF THE DNREC INSPECTOR, BEGIN EXCAVATION FOR THE BIO-RETENTION FACILITY. (DO NOT ALLOW ANY EQUIPMENT WITHIN THE PERIMETER OF THE BIO-RETENTION FACILITY TO PREVENT THE COMPACTION OF THE EXISTING SOILS). NOTIFY THE DNREC SITE INSPECTOR, CCR, AND GEOTECH OF THE BIORETENTION FACILITY CONSTRUCTION SCHEDULE. PROTECT EXCAVATION FROM INFLOW OF SEDIMENT LADEN WATER BY MAINTAINING PERIMETER CONTROLS AROUND TOP OF EXCAVATION. IF DEWATERING IS REQUIRED, UTILIZE A PUMPING PIT AND GEOTEXTILE BAG WITH APPROVAL FROM THE DNREC INSPECTOR. INLET TO STORMTECH SYSTEM TO BE PLUGGED UNTIL THE SITE IS VEGETATIVELY STABILIZED.
19. REMOVE SEDIMENT TRAP AND TEMPORARY SWALES.
20. EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
21. COMPLETE ROUTINE MAINTENANCE OF INSPECTED BMPS.
22. SUBMIT FINAL POST CONSTRUCTION AND MAINTENANCE PLANS TO DNREC FOR REVIEW AND APPROVAL WITHIN 60 DAYS OF UNDERGROUND SYSTEM INSTALLATION.
23. CONTACT DNREC FOR FINAL CONSTRUCTION INSPECTION.

0 20 40 60

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS	
DATE	
Date:	JANUARY 2026
Scale:	1"=20'
Dwn.By:	CLB/RJL
Proj.No.:	0586B065.B01

SSM PRE-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN

Dwg.No.:

C-402

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L:\0586 State of Delaware\05860065 .B01 Columbarium\DESIGN\ASSM PRE-CONSTRUCTION PLANS.dwg Jan 30, 2026 2:40pm lan

BIORETENTION POND
SEE SHEETS C-410

EX. PAVED ACCESS ROAD

EX. TREE CLUSTER TO REMAIN

EX. IRRIGATION LINE

EX. TREE CLUSTER TO REMAIN

PROPOSED COLUMBARIUM WALLS (TYP.)

BENCH (TYP.)

EX. IRRIGATION LINE

PROPOSED COLUMBARIUM WALLS (TYP.)

BENCH (TYP.)

BENCH (TYP.)

PROPOSED COLUMBARIUM WALLS (TYP.)

EX. IRRIGATION LINE

EX. TREE CLUSTER TO REMAIN

SEE INSET FOR CONTINUATION

PROPOSED MODIFIED MAINTENANCE ROAD

RIPRAP SEDIMENT TRAP 1

DRAINAGE AREA: 3.02 ACRES
STORAGE VOLUME REQUIRED = 10,872 CF
STORAGE VOLUME PROVIDED = 10,976 CF
CLEAN-OUT VOLUME PROVIDED = 5,488 CF
DESIGN DIMENSIONS: 28' W X 98' L X 4' D
EMBANKMENT HEIGHT: 4.0'
CHANNEL DEPTH (a) = 1.5'
WEIR LENGTH (b) = 6.00'

SST

SP H=10

CW

SCE

EX. ELECTRIC LINE

PROPOSED (11) 10'x22' GRAVEL PARKING SPACES, SEE DETAIL ON SHEET C-202

LEGEND

4	EXISTING TOPO
	BOUNDARY LINE
	EXISTING TREELINE
	EDGE OF PAVEMENT
4	PROPOSED TOPO
ROP-2	RIPRAP OUTLET PROTECTION - TYPE 2
SCE	STABILIZED CONSTRUCTION ENTRANCE
CW	CONCRETE WASHOUT
LOD	LIMIT OF DISTURBANCE (2.235 AC.)
SF	SILT FENCE
SSF	SUPER SILT FENCE
LOD/SF	LIMIT OF DISTURBANCE/SILT FENCE
LOD/SSF	LIMIT OF DISTURBANCE/ SUPER SILT FENCE
WET	WETLANDS LINE
SP	SOIL STOCKPILE
SST	STONE OUTLET SEDIMENT TRAP
TS-A1	TEMPORARY SWALE TYPE A-1

SITE INSET
SCALE: 1" = 20'

IP1

0 20 40 60

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS	
DATE	
Date:	0586B065.B01
Scale:	1"=20'
Dwn.By:	CLB/RJL
Proj.No.:	0586B065.B01

SSM CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN

Dwg.No.:
C-403

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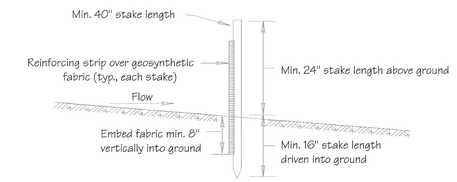
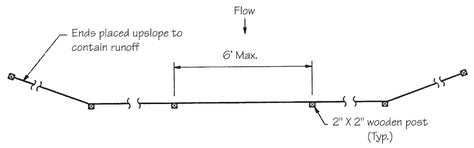
Standard Detail & Specifications

Silt Fence



Section



Plan

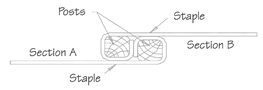
DATA
Max. controlled slope

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	SF	DE-ESC-3.1.2.1 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Silt Fence

Construction Detail



Top

Method for joining continuous sections

Construction Notes:

1. Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
2. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
3. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

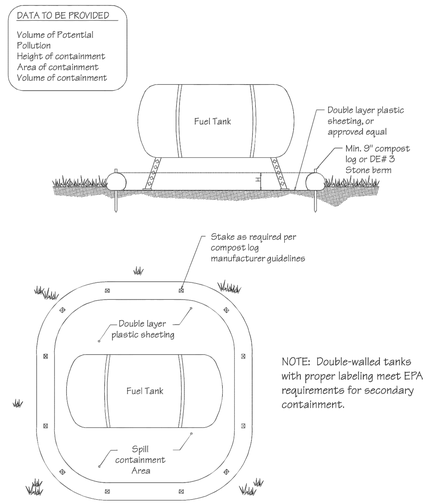
Materials:

1. Stakes: Steel (either T or U) or 2" x 2" hardwood
2. Geosynthetic Fabric: Type GD-I
3. Reinforcing strip: Wooden lath or plastic strip

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	SF	DE-ESC-3.1.2.1 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Fueling & Spill Control



NOTE: Double-walled tanks with proper labeling meet EPA requirements for secondary containment.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.6.4 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Fueling & Spill Control

Pollution Prevention – Fueling & Spill Control

1. Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
2. Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
3. Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
4. Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
5. Place a "Fueling Area" sign next to each fueling area.
6. Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
7. Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.
8. Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.
9. If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
10. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

CLEAN UP SPILLS

1. If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.
2. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
3. Do not bury spills or wash them down with water.

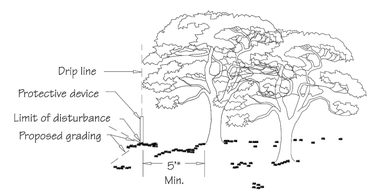
LEAKS AND DRIPS

1. Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
2. Do not allow oil, grease, fuel or chemicals to drip onto the ground.
3. Have spill kits and clean up material on-site.
4. Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
5. Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
6. Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.6.4 Sheet 2 of 2 Effective January 2026

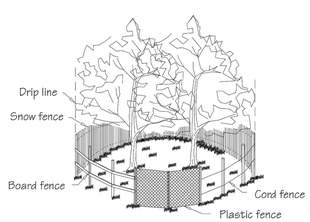
Standard Detail & Specifications

Sensitive Area Protection



*5' min. setback applies to all sensitive areas covered by this specification.

Location of Sensitive Area Protection



Methods of Sensitive Area Protection

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 1 of 3 Effective January 2026

Standard Detail & Specifications

Sensitive Area Protection

Construction Notes:

Fencing shall be installed at the extents of all sensitive areas. For trees, the fencing shall be installed outside the dripline (mature canopy) and at no time within 5 feet of the trunk. Personnel must be instructed to honor protective devices. The devices described are suggested only, and are not intended to exclude the use of other devices which will protect the trees to be retained. If silt fence is to be used for demarcation purposes, appropriate signage shall be provided a minimum of every 20 feet denoting the area as a sensitive area protection zone.

Materials:

1. Snow Fence - Standard 40-inch high snow fence shall be placed at the limits of clearing or construction on standard steel posts set 6 feet apart.
2. Board Fence - Board fencing consisting of 4-inch square posts set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with a minimum of two horizontal boards between posts. For tree protection, if it is not practical to erect a fence at the drip line, construct a triangular fence nearer the trunk. The limits of clearing will still be located at the drip line, since the root zone within the drip line will still require protection.
3. Plastic Fencing - 40-inch high "international orange" plastic (polyethylene) web fencing secured to conventional metal "T" or "U" posts driven to a minimum depth of 18 inches on 6-foot minimum centers shall be installed at the limits of clearing. The fence should have the following minimum physical qualities:

a.	Tensile yield:	Average 2,000 lbs. per 4-foot width (ASTM D638)
b.	Ultimate tensile yield:	Average 2,900 lbs. per 4-foot width (ASTM D638)
c.	Elongation at break (%):	Greater than 1000% (ASTM D638)
d.	Chemical resistance:	Inert to most chemicals and acids

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 2 of 3 Effective January 2026

Standard Detail & Specifications

Sensitive Area Protection

4. Cord Fence - Posts with a minimum size of 2 inches square or 2 inches in diameter set securely in the ground and protruding at least 4 feet above the ground shall be placed at the limits of clearing with two rows of cord 1/4-inch or thicker at least 2 feet apart running between posts with strips of colored surveyor's flagging tied securely to the string at intervals no greater than 3 feet.
5. Earth Berms - Temporary earth berms shall be constructed according to specifications for a Temporary Earth Dike with the base of the berm on the sensitive area side located along the limits of clearing. Earth berms may not be used for this purpose if their presence will conflict with drainage patterns.
6. Trunk Armoring (Tree Protection Only) - As a last resort, a tree trunk can be armored with burlap wrapping and 2-inch studs wired vertically no more than 2 inches apart to a height of 5 feet encircling the trunk. If this alternative is used, the root zone within the drip line will still require protection. Nothing should ever be nailed to a tree.

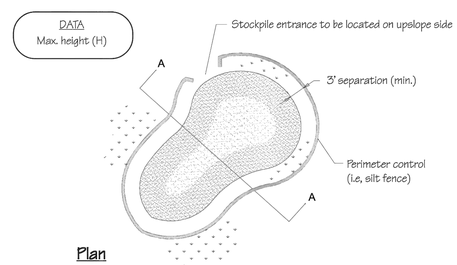
Maintenance:

Fencing and armoring devices shall be in place before any excavation or grading is begun, shall be kept in good repair for the duration of construction activities, and shall be the last items removed during the final cleanup after the completion of the project.

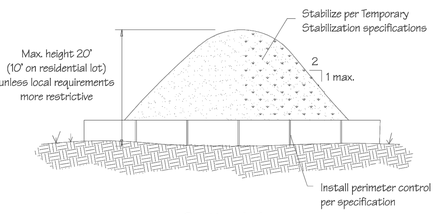
Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SAP	DE-ESC-3.7.2 Sheet 3 of 3 Effective January 2026

Standard Detail & Specifications

Soil Stockpile



Plan



Section A-A

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 1 of 2 Effective January 2026

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS	DATE

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

SSM CONSTRUCTION DETAILS

Dwg.No.: **C-404**

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Standard Detail & Specifications

Soil Stockpile

Construction Notes:

1. Locate stockpiles so that they are 50 feet from any storm drain inlet, open channel, wetland or waterbody. Redirect any concentrated flow around the stockpile using an approved erosion and sediment control measure.
2. Secure the perimeter of the stockpile with an approved erosion and sediment control perimeter device.
3. If stockpile is to remain inactive for more than 14 calendar days, the stockpile must be vegetated. Follow the temporary vegetation specifications. The vegetation chosen shall last the duration of the stockpile; the stockpile shall be restabilized if the temporary vegetation dies or erosion results.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Dust Control

Temporary Methods:

1. Mulches - See **DE-ESC-3.4.5**, Standard Detail and Specifications for Mulching.
2. Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
3. Adhesives - Use on mineral soils only (not effective on muck soils). Keep traffic off these areas. The following table may be used for general guidance.

Type of Emulsion	Water Dilution	Type of Nozzle	Apply Gal/Ac.
Latex emulsion	12.5:1	Fine spray	235
Resin-in-water emulsion	4.1	Fine spray	300
Acrylic emulsion (non-traffic)	7:1	Coarse spray	450
Acrylic emulsion (traffic)	3.5:1	Coarse spray	350

4. Tillage - For emergency temporary treatment, scarify the soil surface to prevent or reduce the amount of blowing dust until a more appropriate solution can be implemented. Begin the tillage operation on the windward side of the site using a chisel-type plow for best results.
5. Sprinkling - Sprinkle site with water until the surface is moist . Repeat as needed.
6. Calcium Chloride - Apply as flakes or granular material with a spreader at a rate that will keep the soil surface moist. Re-apply as necessary.
7. Barriers - Place barriers such as solid board fences, snow fences, hay bales, etc. at right angles to the prevailing air currents at intervals of approx. 10X their height.

Permanent Methods:

1. Vegetative cover - See **DE-ESC-3.4.3**, Std. Detail and Specifications for Vegetative Stabilization.
2. Stone - Apply layer of crushed stone or coarse gravel to protect soil surface.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook		DE-ESC-3.4.8 Sheet 1 of 1 Effective January 2026

Standard Detail & Specifications

Topsoiling

Construction Notes:

1. **Site Preparation** (Where Topsoil is to be added)

   Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.

   a. Grading - Grades on the areas to be topsoiled which have been previously established shall be maintained.

   b. Liming - Where the topsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

   c. Tilling - After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of a least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.

2. **Topsoil Material and Application**

   Note:Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Topsoiling

Construction Notes (cont.)

a. Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, stones, slag, coarse fragment, gravel, sticks, roots, trash or other extraneous materials larger than 1-1/2 inches in diameter. Topsoil must be free of plants or plant parts of bermudagrass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistles, or others as specified. All topsoil shall be tested by a reputable laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content of not less than 1.5 percent by weight is required. If pH value is less than 6.0 lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.

Note: No sod or seed shall be placed on soil which has been treated with soil sterilant or chemicals used for weed control until sufficient time has elapsed to permit dissipation of toxic materials.

b. Grading - The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Note:Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil. Compost material used to improve the percentage of organic matter shall be provided by a certified supplier.

Compost amendments that are intended to meet specific post-construction stormwater management goals shall further meet the requirements of **Appendix 3.06.2 Post Construction Stormwater Management BMP Standards and Specifications, Section 14.0 Soil Amendments.**

Source:	Symbol:	Detail No.
USDA - NRCS		DE-ESC-3.4.1 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Vegetative Stabilization

TEMPORARY SEEDING BY RATES, DEPTHS AND DATES

Mix #	Species[5]	Seeding Rate lb/Ac[4]	Seeding Rate lb/1000 sq.ft.	Optimum Seeding Dates [1] (O = Optimum Planting Period; A = Acceptable Planting Period) Coastal Plain 2/1-4/30	Coastal Plain [2] 5/1-8/14	Coastal Plain 8/15-10/31	Piedmont 3/1-4/30	Piedmont [2] 5/1-7/31	Piedmont 8/1-10/31	All 10/31-2/1	Planting Depth[3]
	Certified Seed										
1	Barley	125	4	O	A	O	O	A	O		1-2 inches 2-3" sandy soils
2	Oats	125	4	O	A	A	O	A	A		1-2 inches 2-3" sandy soils
3	Rye	125	4	O	A	O	O	A	O	A	1-2 inches 2-3" sandy soils
4	Perennial Ryegrass	125	4	O	A	O	O	A	O		0.5 inches 1-2" sandy soils
5	Annual Ryegrass	125	4	O	A	O	O	A	O	A	0.5 inches 1-2" sandy soils
6	Winter Wheat	125	4	O	A	O	O	A	O	A	1-2 inches 2-3" sandy soils
7	Foxtail Millet	30 PLS	0.7		O			O			0.5 inches 1-2" sandy soils
8	Pearl Millet	20 PLS	0.5		O			O			0.5 inches 1-2" sandy soils

1. Winter seeding requires 3 tons per acre of straw mulch for proper stabilization.
2. May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
3. Applicable on slopes 3:1 or less.
4. Use varieties currently recommended for Delaware. Contact a County Extension Office for information.
5. Warm season grasses such as Millet may be used between 5/1 and 9/1 if desired. Seed at 3-5 lbs. per acre. Good on low fertility and acid areas. Seed after frost through summer at a depth of 0.5".

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 1 of 4 Effective January 2026

Standard Detail & Specifications

Vegetative Stabilization

PERMANENT SEEDING AND SEEDING DATES

Mix No.	Seeding Mixtures: Certified Seed[3] Well Drained Soils	Seeding Rate[1] lb/Ac	Seeding Rate lb/1000 sq.ft.	Optimum Seeding Dates [2] (O = Optimum Planting Period, A = Acceptable Planting Period) Coastal Plain 2/1-4/30	Coastal Plain [2] 5/1-8/14	Coastal Plain 8/15-10/31	Piedmont 3/1-4/30	Piedmont [2] 5/1-7/31	Piedmont 8/1-10/31	All[4] 10/31-2/1	Remarks
1	Tall Fescue	140	3.2	A	O	A	A	O	A	Add 100 lbs./ac. Winter Rye	Good erosion control mix
	Canada Wild Rye	10	0.23								Tolerant of low fertility soils Good for droughty sites
2	Deertongue	30	0.69	A	O	A	A	O	A	Add 100 lbs./ac Winter Rye	Good erosion control mix
	Sheep Fescue	30	0.69								Tolerant of low fertility soils
	White Clover	10	0.35								Legume that fixes atmospheric N into soil
3	Tall Fescue (Turf-type) **or**	50	1.15	O	A[6]	O	O	A[6]	O	Add 100 lbs./ac. Winter Rye	Good erosion control mix
	Strong Creeping Red Fescue **or**	50	1.15								Tall Fescue for droughty conditions. Creeping Red
	Perennial Ryegrass	50	1.15								Fescue for heavy shade. Flatpea to suppress woody vegetation.
	plus Flatpea[8]	15	0.34								
4	Strong Creeping Red Fescue	100	2.3	O	A[6]	O	O	A[6]	O	Add 100 lbs./ac. Winter Rye	Suitable waterway mix.
	Kentucky Bluegrass	70	1.61								Canada Bluegrass more
	Perennial Ryegrass **or**	15	0.35								drought tolerant.
	Redtop	5	0.11								Use Redtop for increased drought tolerance.
	plus White Clover[6]	3	0.07								
5	Switchgrass[6,7] **or**	10	0.23		O			O			Native warm-season mixture.
	Coastal Panicgrass	10	0.23								Tolerant of low fertility soils.
	Big Bluestem	5	0.11								Drought tolerant.
	Little Bluestem	5	0.11								Poor shade tolerance.
	Indian Grass	5	0.1								N fertilizer discouraged - weeds
6	Tall Fescue (turf-type) (Blend of 3 cultivars)	150	3.5	O	A[6]	O	O	A[6]	O		Managed filter strip for nutrient uptake.
7	Tall Fescue	150	3.5	O	A[6]	O	O	A[6]	O		Three cultivars of Kentucky
	Ky. Bluegrass (Blend)	20	0.46								Bluegrass. Traffic tolerant.
	Perennial Ryegrass	20	0.46								
8	Big Bluestem[7]	10	0.23	O	A[6]		O	A[6]			All species are native.
	Indian Grass[7]	10	0.23								Indian Grass and Bluestem have
	Little Bluestem[7]	8	0.18								fluffy seeds. Plant with a
	Creeping Red Fescue	30	0.69								specialized native seed drill.
	plus one of:										
	Partridge Pea	5	0.11								Creeping Red Fescue will
	Bush Clover	3	0.07								provide erosion protection while
	Wild Indigo	3	0.07								the warm season grasses
	Showy Tick-Trefoil	2	0.05								get established.

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 2 of 4 Effective January 2026

Standard Detail & Specifications

Vegetative Stabilization

PERMANENT SEEDING AND SEEDING DATES (cont.)

Mix No.	Seeding Mixtures: Certified Seed[3] Poorly Drained Soils	Seeding Rate[1] lb/Ac	Seeding Rate lb/1000 sq.ft.	Optimum Seeding Dates [2] (O = Optimum Planting Period, A = Acceptable Planting Period) Coastal Plain 2/1-4/30	Coastal Plain [2] 5/1-8/14	Coastal Plain 8/15-10/31	Piedmont 3/1-4/30	Piedmont [2] 5/1-7/31	Piedmont 8/1-10/31	All[4] 10/31-2/1	Remarks
9	Redtop	75	1.72	O	A[6]	O	O	A[6]	O	Add 100 lbs./ac. Winter Rye	Quick stabilization of disturbed sites and waterways
	Creeping Bentgrass	35	0.8								
	Sheep Fescue	30	0.69								
	Rough Bluegrass	45	1								
10	Switchgrass[6]	10	0.23	A		O	A		O		Good erosion control, wildlife cover and wetland revegetation.
	Residential Lawns										
11	Tall Fescue	100	2.3	O	A[6]	O	O	A[6]	O		High value, high maintenance,
	Perennial Ryegrass	25	0.57								light traffic, irrigation necessary.
	Kentucky Bluegrass Blend	30	0.69								Well drained soils, full sun.
12	Tall Fescue	100	2.3	O	A[6]	O	O	A[6]	O		Moderate value,
	Perennial Ryegrass	25	0.57								low maintenance,
	Sheep Fescue	25	0.57								traffic tolerant.
13	Creeping Red Fescue	50	1.15	O	A[6]	O	O	A[6]	O		Shade tolerant,
	Chewings Fescue	50	1.15								moderate traffic tolerance,
	Rough Bluegrass	20	0.4								moderate maintenance.
	Kentucky Bluegrass	20	0.4								
14	Creeping Red Fescue	50	1.15	O	A[6]	O	O	A[6]	O		Shade tolerant,
	Rough Bluegrass **or**	90	2.1								moisture tolerant.
	Chewings Fescue										
15	K-31 Tall Fescue	150	3.5	O	A[6]	O	O	A[6]	O		Monoculture, but performs well alone in lawns. Discouraged.

1. When hydroseeding is the chosen method of application, the total rate of seed should be increased by 25%.
2. Winter seeding requires 3 tons per acre of straw mulch. Planting dates listed above are average for Delaware. These dates may require adjustment to reflect local conditions.
3. All seed shall meet the minimum purity and minimum germination percentages recommended by the Delaware Department of Agriculture. The maximum % of weed seeds shall be in accordance with Chapter 15, Title 3 of the Delaware Code.
4. Turf-type species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
5. It is recommended that all leguminous seed be inoculated.
6. Warm season grass mix and Switchgrass cannot be mowed more than 4 times per year.
7. Warm season grasses require a soil temperature of at least 50 degrees in order to germinate and will remain dormant until then.

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 3 of 4 Effective January 2026

Standard Detail & Specifications

Vegetative Stabilization

Construction Notes:

1. Site Preparation
   a. Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins.
   b. Final grading and shaping is not necessary for temporary seedings.
2. Seedbed Preparation

   It is important to prepare a good seedbed to ensure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted.
3. Soil Amendments
   a. Lime - Apply liming materials based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil.
   b. Fertilizer - Apply fertilizer based on the recommendations of a **soil test** in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly and incorporate into the top 4 to 6 inches of soils.
4. Seeding
   a. For **temporary stabilization**, select a mixture from **Sheet 1** . For a **permanent stabilization**, select a mixture from **Sheet 2** or **Sheet 3** depending on the conditions. Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.
   b. Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth.
   c. Seed that has been broadcast should be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without interruption.
5. Mulching

   All mulching shall be done in accordance with detail **DE-ESC-3.4.5**.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3 Sheet 4 of 4 Effective January 2026

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj No.: 0586B065.B01

SSM CONSTRUCTION DETAILS

Dwg.No.: C-405

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Standard Detail & Specifications

Mulching

1. Materials and Amounts

a. *Straw* - Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds (two bales) per 1,000 square feet. Mulch materials shall be relatively free of weeds and shall be free of noxious weeds such as; thistles, Johnsongrass, and quackgrass. Spread mulch uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square feet sections and place 70-90 pounds (two bales) of mulch in each section.

b. *Wood chips* - Apply at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square feet when available and when feasible. These are particularly well suited for utility and road rights-of-way. If wood chips are used, increase the application rate of nitrogen fertilizer by 20 pounds of N per acre (200 pounds of 10-10-10 or 66 pounds of 30-0-0 per acre).

c. *Hydraulically applied mulch* -The following conditions apply to hydraulically applied mulch:

i. Definitions:

a. Wood fiber mulch shall consist of specially prepared wood that has been processed to a uniform state, is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment, and consists of a minimum of 70% virgin or recycled wood fiber combined with 30% paper fiber and additives.

b. Blended fiber mulch shall consist of any hydraulic mulch that contains greater than 30% paper fiber. The paper component must consist of specially prepared paper that has been processed to a uniform fibrous state and is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment.

c. A bonded fiber matrix (BFM) consists of long strand, specially prepared wood fibers that have been processed to a uniform state held together by a water resistant bonding agent. BFMs shall contain no paper (cellulose) mulch but may contain small percentages of synthetic fibers to enhance performance.

d. Refer to **Figure 3.4.5a** for conditions and limitations of use for each of the above categories of hydraulic mulch.

ii. All components of the hydraulically applied mulches shall be pre-packaged by the manufacturer to assure material performance. Field mixing of the mulch components is acceptable, but must be done per manufacturers recommendations to ensure the proper results.

iii. Hydraulic mulches shall be applied with a viable seed and at manufacturer's recommended rates. Increased rates may be necessary based on site conditions.

iv. Hydraulically applied mulches and additives shall be mixed according to manufacturers recommendations.

iv. Materials within this category shall only be used when hydraulically applied mulch has been specified for use on the approved Sediment and Stormwater Plan, or supplemental approval from the plan approval agency has been obtained in writing for a specific area.

Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrexx™ International		**DE-ESC-3.4.5** Sheet 1 of 3 Effective January 2026

Standard Detail & Specifications

Mulching

v. Application:

a. Apply product to geotechnically stable slopes that have been designed and constructed to divert runoff away from the face of the slope.

b. Do not apply to saturated soils, or if precipitation is anticipated within 24-48 hours.

c. During the spring (March 1 to May 31) and fall (September 1 to November 30) seasons, hydraulic mulches may be applied in a one-step process where all components are mixed together in single-tank loads. It is recommended that the product be applied from opposing directions to achieve optimum soil coverage.

d. During the summer (June 1 to August 31) and winter (December 1 to February 28) seasons, the following two-step process is required:

Step One – Mix and apply seed and soil amendments with a small amount of mulch for visual metering.

Step Two – Mix and apply mulch at manufacturers recommended rates over freshly seeded surfaces. Apply from opposing directions to achieve optimum soil coverage.

e. Minimum curing temperature is 40° F (4° C). The best results and more rapid curing are achieved at temperatures exceeding 60° F (15° C). Curing times may be accelerated in high temperature, low humidity conditions on dry soils.

vi. Recommended application rates are for informational purposes only. Conformance with this standard and specification shall be performance-based and requires **100% soil coverage**. Any areas with bare soil showing shall be top dressed until full coverage is achieved.

d. *Compost blanket (CB)* - Loosely applied with a pneumatic blower so that a 1" compost blanket uniformly covers the **soil with 100% coverage**. This application can be used with seed to promote germination by applying the approved seed mix directly into the loosely blown compost. The compost blanket performs best on slopes less than 2:1 and requires no mulch anchoring.

2. Anchoring mulch - Mulch must be anchored immediately to minimize loss by wind or water. This may be done by one of the following methods, depending upon size of area, erosion hazard, and cost.

a. *Crimping* - A crimper is a tractor drawn implement designed to punch and anchor mulch into the top two (2) inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely. On sloping land, crimping should be done on the contour whenever possible.

b. *Tracking* - Tracking is the process of cutting mulch (usually straw) into the soil using a bulldozer or other equipment that runs on cleated tracks. Tracking is used primarily on slopes 3:1 or steeper and should be done up and down the slope with cleat marks running across the slope.

c. *Liquid mulch binders* - Applications of liquid mulch binders should be heavier at edges, in valleys, and at crests of banks and other areas where the mulch will be moved by wind or water. All other areas should have a uniform application of binder. The use of synthetic binders is the preferred method of mulch binding and should be applied at the rates recommended by the manufacturer.

d. *Paper fiber* - The fiber binder shall be applied at a net dry weight of 750 lbs/ac. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons.

e. *Nettings* - Biodegradable nettings may be used to secure straw mulch. Install and secure according to the manufacturer's recommendations. Photodegradable or synthetic nettings are not acceptable.

Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrexx™ International		**DE-ESC-3.4.5** Sheet 2 of 3 Effective January 2026

Standard Detail & Specifications

Mulching

MULCHING MATERIAL SELECTION GUIDE

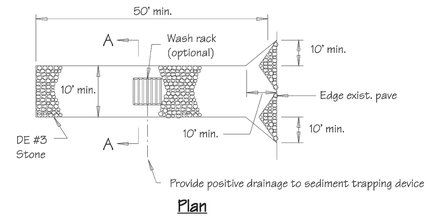
Percent Slope	Type of Mulch / App. Rate*	Dec. 1 to Feb. 28(29)	March 1 to May 31	June 1 to Aug. 31	Sept. 1 to Nov. 30
Less than 2%	Blended Fiber @ 2000 lbs/ac. minimum	xxxxxxxxxxxxxxx	OK (1 wk.)	xxxxxxxxxxxxxxx	OK (1 wk.)
	Wood Fiber @ 2000 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	BFM @ 400 lbs/ac. min.	OK	OK	OK	OK
	Straw @ 2 Tons/ac. Min.	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
2% to 5.9%	Wood Fiber @ 2000 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	BFM @ 3000-3500 lbs/ac. min	OK	OK	OK	OK
	Straw @ 2 Tons/ac. min.	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
6% to 10.9%	Wood Fiber @ 2500-3000 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	BFM @ 3500-4000 lbs/ac. min.	OK	OK	OK	OK
	Straw @ 2 Tons/ac. min.	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
11% to 24.9%	Wood Fiber @ 2500-3000 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	BFM @ 3500-4000 lbs/ac. min.	OK	OK	OK	OK
	Straw @ 2 Tons/ac. min.	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
25% to 33%	Wood Fiber @ 3000-3500 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	BFM @ 400 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	Straw @ 2 Tons/ac. min.	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
33% and up	BFM @ 4000-4500 lbs/ac. min.	xxxxxxxxxxxxxxx	OK	xxxxxxxxxxxxxxx	OK
	Straw @ 2 Tons/ac. min.***	OK	OK	OK	OK
	Stabilization Matting**	OK	OK	OK	OK
	1" Compost Blanket (CB)	OK	OK	OK	OK
			2:1 Max.	2:1 Max.	2:1 Max.

* Note: Manufacturers Recommended Rates for informational purposes only. Performance standard requires 100% soil coverage.
** Note: Stabilization Matting must be applied in accordance with Section 3.4.6 of the Delaware ESC Handbook.
*** Note: Straw applied on slopes greater than 33% must be netted (this does not apply to topsoil stockpiles).
OK = Acceptable use during this time period.
xxx = Not acceptable to use during this time period.
All application rates are minimums

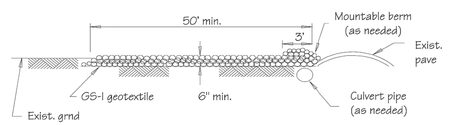
Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrexx™ International		**DE-ESC-3.4.5** Sheet 3 of 3 Effective January 2026

Standard Detail & Specifications

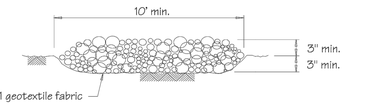
Stabilized Construction Entrance



Plan



Profile

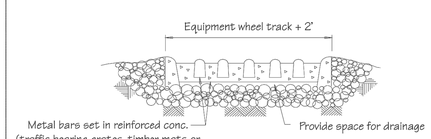


Section A-A (Std.)

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	**DE-ESC-3.4.7** Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Stabilized Construction Entrance



Section A-A (Opt.)

Construction Notes:

1. Stone size - Use DE #3 stone.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than size (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Geotextile - Type GS-I; placed over the entire area prior to placing of stone.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Inspection - Periodic inspection and needed maintenance shall be provided after each rain.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	**DE-ESC-3.4.7** Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Construction Site Pollution Prevention

Delaware NPDES Discharge Permit
General Permit for Discharge of Stormwater from Construction Activities

((Project Name))

((NOI Permit Number))

((Agency Plan Approval ID))

((Contact Name & Number for Additional Site Information))

((Contact Name & Number to Obtain Copy of Approved Plan))

If you observe indicators of stormwater pollutants in the discharge or in the receiving waterbody, call the DNREC Spill Notification 24 HR Hotline at

1-800-662-8802

Example Construction General Permit (CGP) Signage

NOTES:

1. Minimum sign size 2' x 2'
2. Minimum text size 1"
3. Sign must be posted at a safe, publicly accessible location close to construction site
4. Sign must be visible from the public road nearest the active construction site
5. Signs posted within a DelDOT or other public road right-of-way (ROW) must be in accordance with all local and/or State requirements in regards to safety, location, orientation, etc.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		**DE-ESC-3.6.1** Sheet 1 of 3 Effective January 2026

Standard Detail & Specifications

Construction Site Pollution Prevention

1) Equipment and Vehicle Fueling and Maintenance

a. Minimize spills and leaks of fuels and oils.
   i. Fuel only in marked areas a minimum of 50 feet away from drains and watercourses. Use automatic shut-off nozzles and do not top off tanks. Provide lighting if fueling at night.
   ii. Use berms or other barriers around fueling, maintenance, and parking areas to prevent stormwater from running through and to contain spills. Use drip pans during maintenance.
   iii. Take equipment and vehicles to off-site facilities for maintenance when possible.
   iv. Check vehicles and equipment daily for leaks. Repair immediately or remove from site.
   v. Clean up any spills right away. Do not hose them down.
b. Keep absorbent materials and spill kits on site, especially in fueling and storage areas.
c. Dispose of or recycle used oil, fluids, lubricants, and cleanup materials according to manufacturer instructions and all local, state, and federal regulations.

2) Equipment and Vehicle Washing

a. Minimize discharge of pollutants from wash water.
   i. Use off-site commercial wash facilities when possible.
   ii. If washing on-site, use high-pressure water without detergents in a contained area with an impervious berm.
   iii. Dispose of concrete washout water only in designated washout areas for hardening and proper disposal.
b. Do not discharge soaps, solvents, or detergents.
c. Store soaps, detergents, and solvents under cover (e.g., plastic sheeting, temporary roofs) or use another effective method to prevent contact with stormwater.

3) Storage, Handling, and Disposal of Building Products, Materials, and Waste

a. Minimize exposure of materials, products, and waste to rain, stormwater, and wind.
b. Building materials and products:
   i. Cover materials (e.g., plastic sheeting, tarp, or roof) to prevent contact with rain and stormwater. Final building materials and products intended for outdoor use do not require cover.
   ii. Secure materials (e.g., tarp, mesh, or lidded dumpster) to protect from wind.

Source:	Symbol:	Detail No.
Adapted from USEPA CGP 2022 (as modified)		**DE-ESC-3.6.1** Sheet 2 of 3 Effective January 2026

Standard Detail & Specifications

Construction Site Pollution Prevention

c. Construction and domestic waste:
   i. Provide enough containers (e.g., dumpsters, trash bins) to hold all waste.
   ii. Keep container lids closed when not in use and during storms.
   iii. For containers without lids, cover with a tarp or temporary roof to prevent exposure to rain and wind.
   iv. Do not dump or allow liquid wastes (e.g., paint, solvents, chemicals) to enter the ground, drains, or waterways.
d. Dispose of waste in designated containers and clean up loose trash immediately.
e. Empty dumpsters when at 80% capacity by volume.
f. Waste containers are not required for final building materials and products if stored separately from other construction, domestic or other waste. If mixed, the waste must be managed as construction and domestic waste in Section 3(c).

4) Hazardous Materials, Other Chemicals and Sanitary Waste:

a. Store hazardous materials and chemicals under cover or in secondary containment, at least 50 feet from drains or waterways.
b. Keep containers labeled, sealed, watertight, and closed when not in use.
c. Store contaminated waste in sealed, labeled containers made of suitable material.
d. Dispose of hazardous materials according to Delaware laws and regulations.
e. Post spill reporting contact information clearly on site.

5) Pesticides, Herbicides, Fertilizers, and Landscape Material:

a. Keep all products labeled and covered (e.g., plastic sheeting or temporary roofs) to prevent contact with rain and stormwater.
b. Provide similarly effective protection methods, such as storing fertilizer in a weatherproof area or on a covered pallet, to minimize polluted run-off.
c. Apply all products according to state and federal regulations.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number	**800-662-8802**
DNREC Solid & Hazardous Waste Management Section	**302-739-9403**

Source:	Symbol:	Detail No.
Adapted from USEPA CGP 2022 (as modified)		**DE-ESC-3.6.1** Sheet 3 of 3 Effective January 2026

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
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DATE	COMMENTS

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

SSM CONSTRUCTION DETAILS

Dwg.No.: **C-406**

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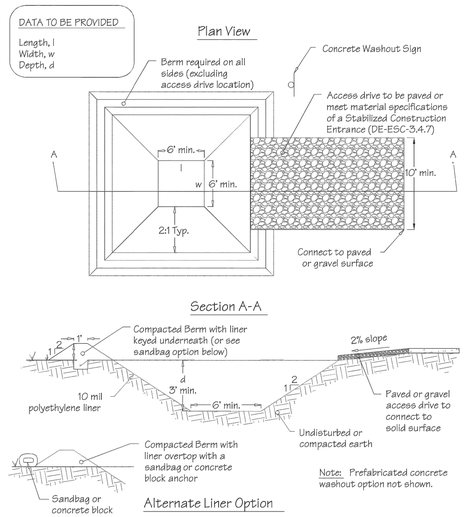
Standard Detail & Specifications

Concrete Washout



Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Concrete Washout

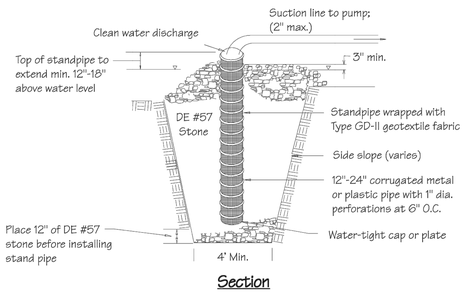
Construction Notes:

1. Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.
2. Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.
3. Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.
4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overtop with sandbags or concrete blocks to hold in place.
5. Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
7. Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Pumping Pit - Type 1



Construction Notes:

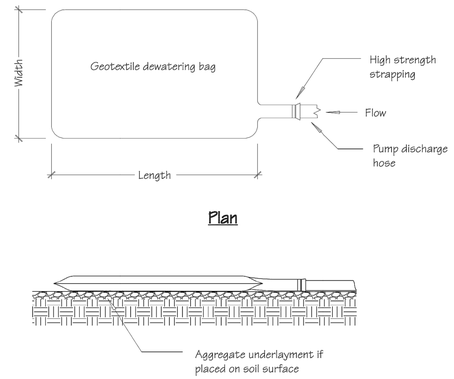
1. Pit dimensions are variable.
2. The standpipe should be constructed by perforating a 12" to 24" diameter corrugated or PVC pipe. The perforations shall be 1/2" X 6" slits or 1" diameter holes 6" on center.
3. A base of DE #57 aggregate should be placed in the pit to a depth of 12". After installing the standpipe, the pit surrounding the standpipe should then be backfilled with DE #57 aggregate.
4. The standpipe should extend 12" to 18" above the lip of the pit or riser crest elevation (basin dewatering).

NOTE: If discharge will be pumped directly to a storm drainage system, the standpipe must be wrapped with Type GD-II geotextile fabric before installation. If desired, 1/2" hardware cloth may be placed around the standpipe, prior to attaching the geotextile fabric. This will increase the rate of water seepage into the pipe.

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	PP-1	DE-ESC-3.2.2.1 Sheet 1 of 1 Effective January 2026

Standard Detail & Specifications

Geotextile Dewatering Bag



NOTE: Pre-manufactured products installed in accordance with manufacturer's recommendations may be used as an equivalent substitute with Departmental approval.

Source:	Symbol:	Detail No.
Adapted from ACF Products, Inc.	GB	DE-ESC-3.2.1.2 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Geotextile Dewatering Bag

Construction Notes:

1. The dewatering bag should be placed so the incoming water flows into and through the bag, and then flow off the site without creating more erosion. The neck should be tied off tightly to stop the water from flowing out of the bag without going through the walls. The dewatering bag should be placed on a gravel bed to allow water to flow in all directions.
2. The dewatering bag is considered full and should be disposed when it is impractical for the bag to filter the sediment out at a reasonable flow rate. At this point, it should be replaced with a new bag.
3. Disposal may be accomplished as directed by the construction reviewer. If the site allows, the bag may be buried on site and seeded, visible fabric removed and seeded or removed from site to a proper disposal area.

Materials:

1. The geotextile fabric shall be a Type GD-IV.
2. The dewatering bag shall be sewn with a double needle machine using high strength thread. All structural seams will be sewn with high strength, double stitched "J" type. Seam strength test will have the following minimum average roll values:

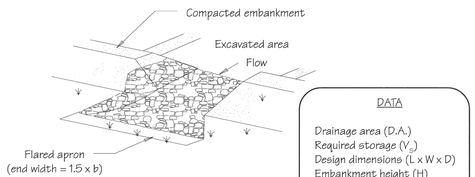
Type	TEST METHOD	TEST RESULT
Heavy duty	ASTM D-4884	100 lb / in

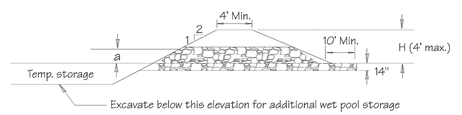
3. The dewatering bag shall have an opening large enough to accommodate a four (4) inch discharge hose with attached strap to tie off the hose to prevent the pumped water from escaping from the bag without being filtered.

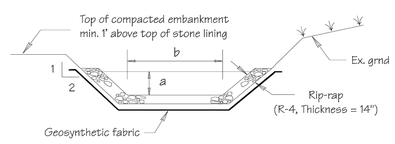
Source:	Symbol:	Detail No.
Adapted from ACF Products, Inc.	GB	DE-ESC-3.2.1.2 Sheet 2 of 2 Effective January 2026

Standard Detail & Specifications

Riprap Outlet Sediment Trap







Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	RST	DE-ESC-3.1.3.3 Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Riprap Outlet Sediment Trap

Construction Notes:

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be four (4) feet, measured at centerline of the embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to the elevation of the crest of the outlet weir channel.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet shall be R-4 riprap with a thickness of 14".
8. **An approved dewatering device shall be considered an integral part of the trap. Dewatering operations shall be conducted in accordance with any and all regulatory requirements.**
9. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
10. The structure shall be inspected after each rain and repaired as needed.
11. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized. Disturbed areas shall be stabilized in accordance with the Standards and Specifications for vegetative Stabilization contained in this Handbook.
12. The structure shall be removed and the area stabilized when the contributing drainage area has been properly stabilized.

MAXIMUM DRAINAGE AREA: 15 ACRES

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	RST	DE-ESC-3.1.3.3 Sheet 2 of 2 Effective January 2026

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DELAWARE VETERANS CEMETERY
COLUMBARIUM EXPANSION
PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

COMMENTS	DATE

Date: JANUARY 2026
Scale: AS SHOWN
Dwn.By: CLB
Proj.No.: 0586B065.B01

SSM CONSTRUCTION DETAILS

Dwg.No.: C-407

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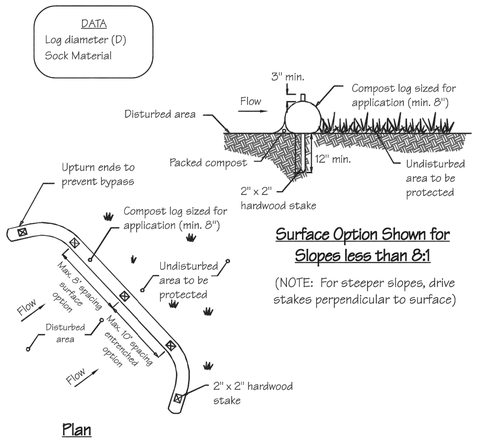
Standard Detail & Specifications

Compost Filter Log



Surface Option Shown for Slopes less than 8:1

(NOTE: For steeper slopes, drive stakes perpendicular to surface)

Plan

NOTE: Manufacturer's recommendations supersede any installation details shown for this practice

Source:	Symbol:	Detail No.
Adapted from MD Stds & Specs for ESC & Filtrexx™ International	CFL	**DE-ESC-3.1.7** Sheet 1 of 2 Effective January 2026

Standard Detail & Specifications

Compost Filter Log

Construction Notes:

1. Prior to installation, clear bedding area of obstructions including rocks or debris larger than 1 inch and fill in any sharp depression areas.
2. If socks are prepared on-site, fill the sock fabric using a pneumatic blower so that the logs are rigid and do not deform. Terminate at the desired length.
3. For trenched applications, excavate 2 to 4 inches below grade along the width and length of the compost filter log.
4. Install the compost filter logs perpendicular to the flow direction and parallel to the slope with the beginning and end of the installation pointing up the slope a minimum of 1 foot elevation difference. On sites where this is not possible, upturn at a minimum length of 10' at a 30 degree angle to prevent runoff bypass.
5. For untrenched applications, blow or hand pack soil, mulch, or compost on the upslope side of the log, filling the bottom void area.
6. Stake the filled log every 10 feet maximum through the center of the sock for trenched applications, or every 8 feet for untrenched. The stake shall be a 2" by 2" hardwood. It should extend 12" below grade and protrude at least 3" above the top of the sock. If located on a slope greater than 8:1, the stake shall be angled downslope at a 45 degree angle to prevent the force of the water from dislodging to log.
7. When the length of the compost filter log needed exceeds the available compost filter sock length, the next sock shall be overlapped a minimum of 12" before being filled, and a stake placed through both socks at the overlap.
8. Remove accumulated sediment when it has reached half of the effective height of the log.
9. Inspect weekly and after rain event. If sock is degrading or the sock is failing, vegetate to secure the compost, replace the log, or reinforce with an additional log. If the log has been crushed due to construction equipment, it can be "fluffed" back to its effective height. If the effective height can no longer be restored, the log shall be replaced or reinforced with an additional compost filter log.

Source:	Symbol:	Detail No.
Adapted from MD Stds & Specs for ESC & Filtrexx™ International	CFL	**DE-ESC-3.1.7** Sheet 2 of 2 Effective January 2026

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SSM CONSTRUCTION DETAILS

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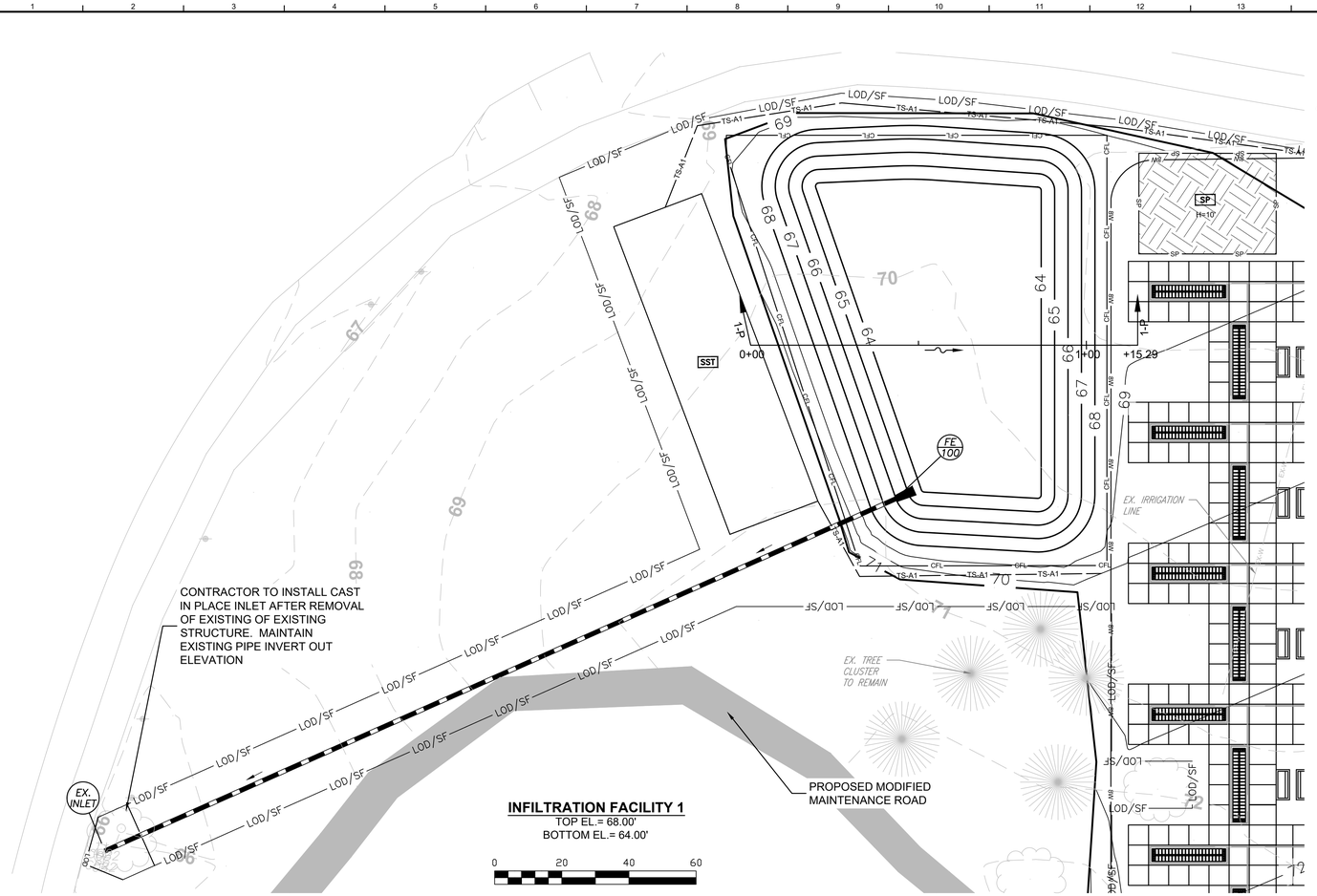
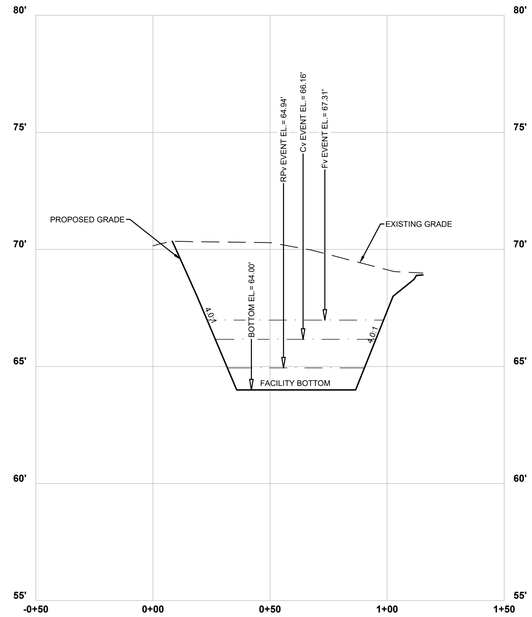
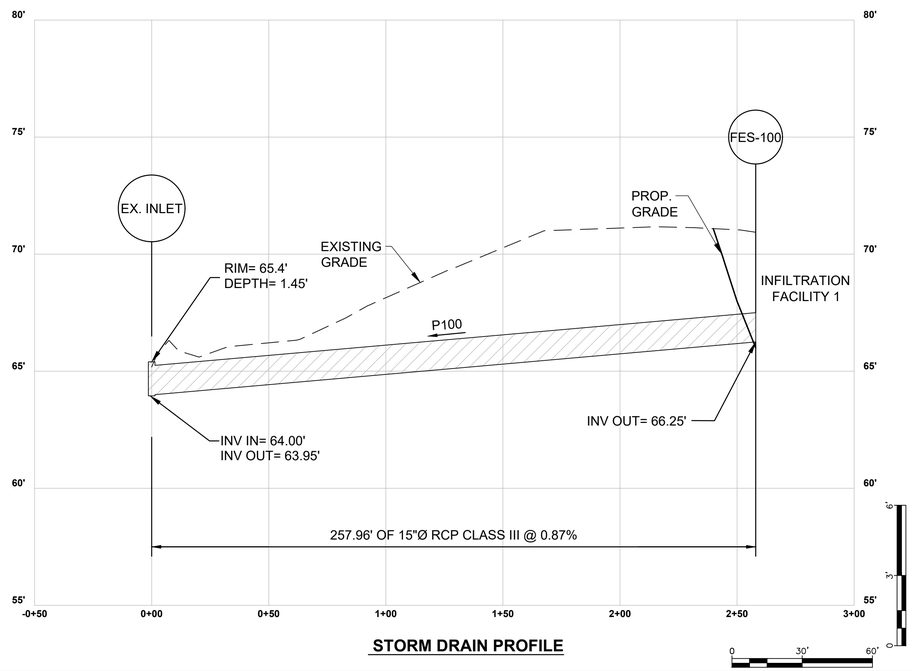




INFILTRATION FACILITY 1 SECTION

DESIGN INFILTRATION RATE: 2" PER HR.



STORM DRAIN PROFILE

TYPICAL MAINTENANCE ITEMS AND FREQUENCY FOR INFILTRATION PRACTICES	
Maintenance Activity	Schedule
• Replace topsoil and top surface filter fabric (when clogged). • Mow vegetated filter strips as necessary and remove the clippings.	As needed
• Ensure that the contributing drainage area, inlets, and facility surface are clear of debris. • Ensure that the contributing drainage area is stabilized. Perform spot-reseeding if where needed. • Remove sediment and oil/grease from inlets, pretreatment devices, flow diversion structures, and overflow structures. • Repair undercut and eroded areas at inflow and outflow structures.	Quarterly
• Inspect pretreatment devices and diversion structures for sediment build-up and structural damage. • Remove trees that start to grow in the vicinity of the infiltration facility that may drop leaf litter, fruits and other vegetative materials that could clog the infiltration device.	Semi-annual inspection
• Clean out accumulated sediments from the pretreatment cell.	Annually

OPERATION AND MAINTENANCE NOTES

1. THE DNREC SEDIMENT AND STORMWATER PROGRAM RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE REVIEWS.
2. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHOULD BE NOTIFIED WITHIN 30 BUSINESS DAYS IF THE PROPERTY OWNERSHIP IS TRANSFERRED TO A NEW PERSON OR ENTITY.
3. THE DNREC SEDIMENT AND STORMWATER PROGRAM MAY SEEK ENFORCEMENT ACTION AGAINST ANY OWNER DEEMED NEGLIGENT IN FULFILLING THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
4. THE DNREC SEDIMENT AND STORMWATER PROGRAM SHOULD BE CONTACTED IF A CONCERN ARISES REGARDING A STORMWATER MANAGEMENT FACILITY, BEFORE ANY NON-ROUTINE MAINTENANCE, OR IF MODIFICATIONS TO THE FACILITY ARE DESIRED.
5. ANY DESIGN MODIFICATIONS MADE TO THE STORMWATER SYSTEM SHALL REQUIRE THE CREATION OF A NEW POST CONSTRUCTION STORMWATER MANAGEMENT PLAN AND/OR OPERATIONS AND MAINTENANCE PLAN, WITH APPROVAL OF THE PLAN(S) BY THE DNREC SEDIMENT AND STORMWATER PROGRAM.
6. FOR ALL STORMWATER EASEMENT AREAS (I.E., ACCESS, MAINTENANCE, OR OFFSITE) AND THE MINIMUM 15-WIDE ACCESSWAYS TO ALL STORMWATER FACILITIES AND THEIR STRUCTURAL COMPONENTS, REGULAR MOWING SHOULD BE PERFORMED TO KEEP THE GRASS 6 INCHES OR LESS; NO TREES OR SHRUBS SHOULD BE PLANTED, AND ANY FOUND GROWING SHOULD BE REMOVED; AND NO PERMANENT STRUCTURES, SUCH AS FENCES OR SHEDS, SHOULD BE LOCATED WITHIN THE EASEMENT OR ACCESSWAY.
7. TREES SHOULD NOT BE PLANTED, AND SHOULD BE REMOVED IF FOUND GROWING, ON AND WITHIN 15 FEET OF ALL POND EMBANKMENTS, ON POND SLOPES OR SAFETY BENCHES, AND WITHIN 10 FEET OF STRUCTURAL COMPONENTS, SUCH AS PIPE INLETS.
8. WHEN THE FACILITY IS EXCAVATED TO REMOVE ACCUMULATED SEDIMENT, THE DISPOSAL AREA SHALL BE PERMANENTLY STABILIZED SO THAT IT DOES NOT RECREATE AN EROSION PROBLEM. ANY MATERIAL TAKEN OFFSITE SHALL STILL BE USED OR DISPOSED OF IN AN APPROVED DNREC MANNER.
9. THE ACCUMULATED SEDIMENT REMOVED FROM THE FACILITY DURING MAINTENANCE SHALL BE HAULED OFFSITE
10. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.

PIPE SCHEDULE									
LABEL	DESCRIPTION							INVERT ELEVATION	
	FROM	TO	SIZE (")	TYPE	LENGTH	CLASS	SLOPE	UP	DOWN
P100	FES 100	EX INLET	15"	RCP	258'	III	0.87%	66.25	64.00

PROPOSED FLARED END SCHEDULE (FES)			
LABEL	SIZE (IN.)	TYPE	INVERT (FT.)
FE-100	15	RCP-III	66.25

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PENCADER HUNDRED
BEAR, NEW CASTLE COUNTY, DELAWARE

DATE	COMMENTS

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SSM POST CONSTRUCTION PLAN

Dwg.No.: **C-409**

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EXISTING DRIVE
DRIVE

EXISTING PAVED DRIVE

EXISTING PARKING

PROPOSED BIO-RETENTION
FACILITY, SEE SHEET C-410

COLUMBARIUM WALL #LIII

COLUMBARIUM PLAZA "4A",
SEE SHEET C-103

COLUMBARIUM WALL #XXXIV

COLUMBARIUM PLAZA "4B",
SEE SHEET C-104

COLUMBARIUM WALL #LXXIII

COLUMBARIUM WALL #LIV

COLUMBARIUM PLAZA "4C",
SEE SHEET C-105

COLUMBARIUM WALL #XXXIII

COLUMBARIUM WALL #LXXXIV

COLUMBARIUM WALL #XV

COLUMBARIUM WALL #XVI

COLUMBARIUM WALL #XXXV

COLUMBARIUM WALL #XXXIV

COLUMBARIUM WALL #LV

COLUMBARIUM WALL #LVI

EXISTING STONE MAINTENANCE ROAD

REMOVE 4" OF STONE FROM EXISTING MAINTENANCE ROAD. ADD 1½" & 2½" PAVING LIFTS OF TYPE C HOT MIX AS REPLACEMENT. WORK TO EXTEND ENTIRE LENGTH OF ROAD. SEE DETAIL ON SHEET C-103.

PROPOSED (11) 10'x22' GRAVEL PARKING SPACES,
SEE DETAIL ON SHEET C-103.

EXISTING GRAVEL
MAINTENANCE ROAD

0 20 40 60

EXISTING PAVED DRIVE

REPLACE EXISTING TREE

11"

15"

REMOVE EXISTING TREE

EXISTING STONE MAINTENANCE ROAD

SITE INSET
SCALE: 1" = 20'

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LANDSCAPE PLAN

Dwg.No.: **L-101**

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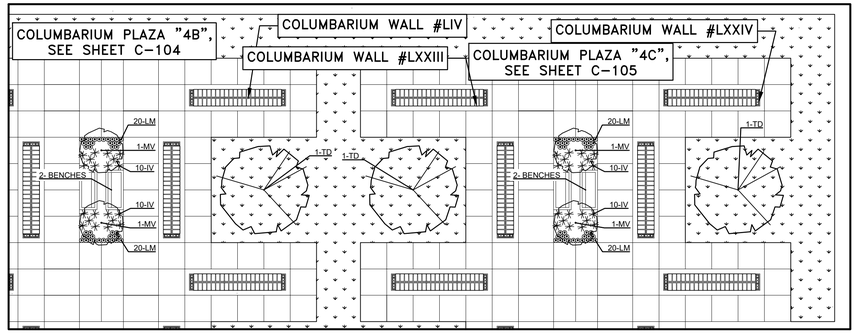
GENERAL LANDSCAPE NOTES

1. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR AFTER INSTALLATION IS COMPLETE AND FINAL ACCEPTANCE OF SITE WORK HAS BEEN GIVEN. AT THE END OF ONE YEAR ALL PLANT MATERIAL WHICH IS DEAD OR DYING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AS ORIGINALLY SPECIFIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND/OR LOCATION OF PLANT MATERIALS. CONTRACTOR TO VERIFY "AS BUILT" LOCATION OF ALL UTILITIES.
4. NO SUBSTITUTIONS SHALL BE MADE WITHOUT APPROVAL OF THE OWNER.
5. ALL AREAS NOT STABILIZED IN PAVING OR PLANT MATERIALS SHOULD BE SEEDED AND MULCHED. (SEE EROSION & SEDIMENT CONTROL PLAN.)
6. ALL DECIDUOUS SHADE TREES SHALL BRANCH A MINIMUM OF 6'-0" ABOVE GROUND LEVEL. TREES SHALL BE PLANTED AND STAKED IN ACCORDANCE WITH THE STAKING DETAIL SHOWN.
7. THE FULL EXTENT OF ALL PLANTING BEDS SHALL RECEIVE 4" OF TOPSOIL AND 3" OF BARK MULCH PER SPECIFICATIONS.
8. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THIS DRAWING AND AS SPECIFIED.
9. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
10. THE CONTRACTOR SHALL WATER ALL PLANTS THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING, AND THEN WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON.

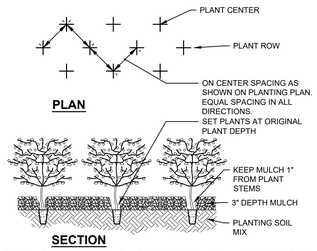
PLANT SCHEDULE - BUFFERS

SYMBOL	NATIVE	KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
DECIDUOUS TREE						
	✓	TD	TAXODIUM distichum	BALD CYPRESS	3" CAL., B&B	30
					TOTAL	30
EVERGREEN TREES						
	✓	MV	MAGNOLIA virginana	SWEETBAY MAGNOLIA	7'-8' HT., B&B	31
					TOTAL	31
PERENNIALS						
		IV	IRIS versicolor	BLUE FLAG IRIS	#1 CONT., 18" O.C.	300
		LM	LIRIOPE muscari 'BIG BLUE'	LIRIOPE	#1 CONT., 18" O.C.	600
					TOTAL	900



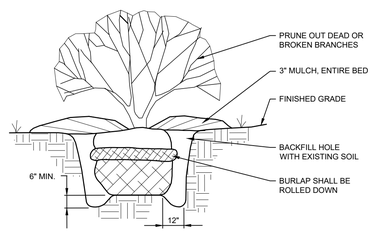
LANDSCAPE PLANTING DETAIL #1

NOT TO SCALE



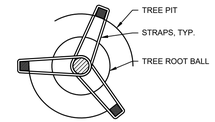
GROUND COVER PLANTING DETAIL

NOT TO SCALE

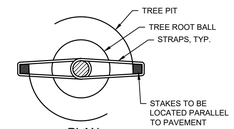


SHRUB PLANTING DETAIL

NOT TO SCALE

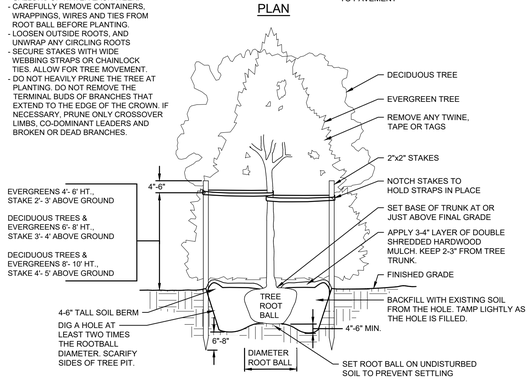


ALL DECIDUOUS SHADE TREES OVER 2" CALIPER AND ALL EVERGREEN TREES OVER 6' IN HEIGHT SHALL USE THREE STAKES FOR STABILIZATION.



PLAN

NOTE:
- WATER DEEPLY ONCE A WEEK DURING THE FIRST TWO SUMMERS. APPLY A MINIMUM OF 5-10 GALLONS OF WATER EACH WEEK.
- CAREFULLY REMOVE CONTAINERS, WRAPPINGS, WIRES AND TIES FROM ROOT BALL BEFORE PLANTING.
- LOOSEN OUTSIDE ROOTS, AND UNWRAP ANY CIRCLING ROOTS
- SECURE STAKES WITH WIDE WEBBING STRAPS OR CHAINLOCK TIES. ALLOW FOR TREE MOVEMENT.
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. IF NECESSARY, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES.



TREE PLANTING DETAIL

NOT TO SCALE

LANDSCAPE ARCHITECT'S STATEMENT

I, TIMOTHY M. METZNER, HEREBY STATE THAT I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ARCHITECTURAL PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

SIGNATURE DATE

REGISTERED LANDSCAPE ARCHITECT: TIMOTHY M. METZNER, RLA
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1 PARK AVENUE
MILFORD, DELAWARE 19963

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COLUMBARIUM EXPANSION
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BEAR, NEW CASTLE COUNTY, DELAWARE

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LANDSCAPE PLAN DETAILS

Dwg.No.: **L-102**

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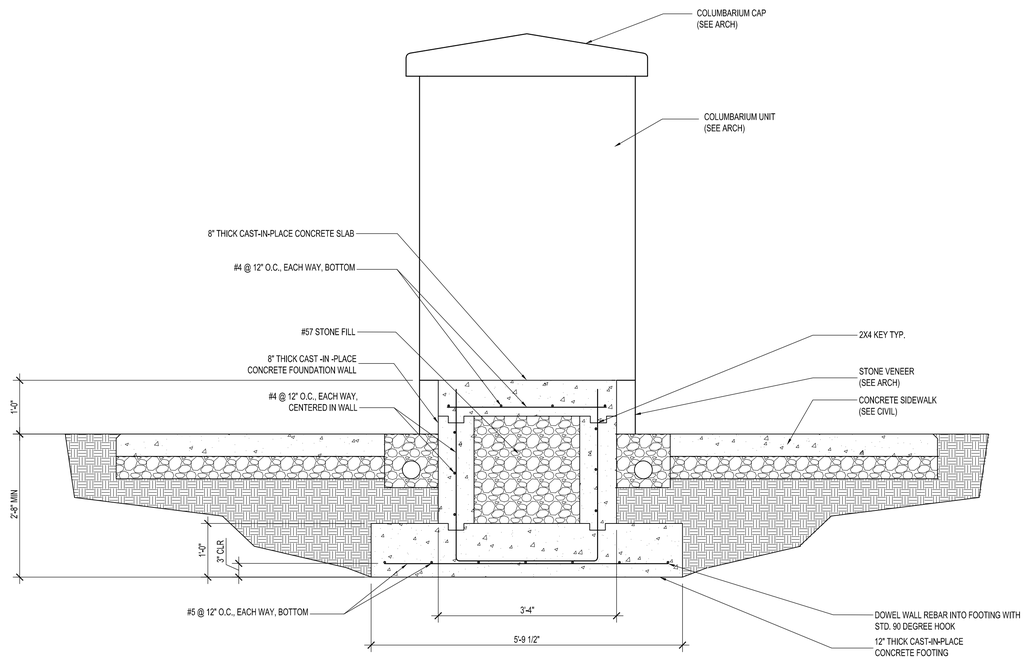
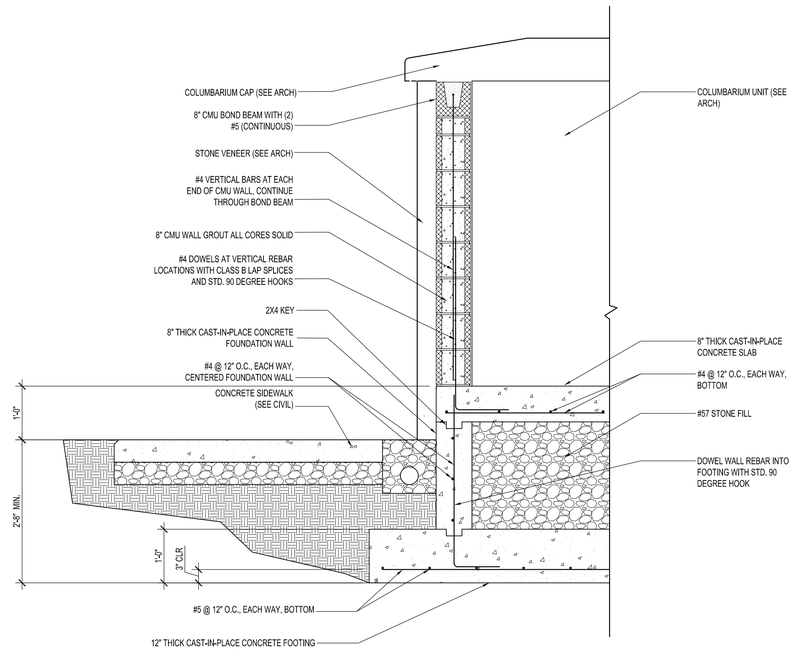


NOTE: FOUNDATIONS, SLABS, & WALLS SHALL BE LEVEL AND PLUMB.

F1 COLUMBARIUM WALL SECTION

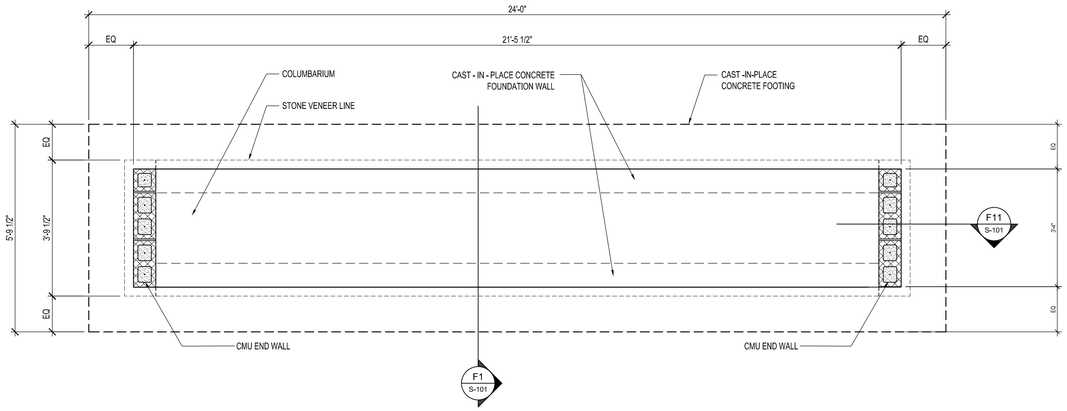
3/4" = 1'-0"



NOTE: FOUNDATIONS, SLABS, & WALLS SHALL BE LEVEL AND PLUMB.

F11 COLUMBARIUM WALL SECTION @ EACH END

3/4" = 1'-0"



A1 FOUNDATION PLAN

1/2" = 1'-0"

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BEAR VET CEMETERY EXPANSION
DELAWARE VETERAN MEMORIAL CEMETERY
BEAR, DE

DATE	COMMENTS

Date: FEBRUARY 2026
Scale: AS NOTED
Dwn.By: BNB
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FOUNDATION PLAN AND SECTIONS

Dwg.No.: **S-101**

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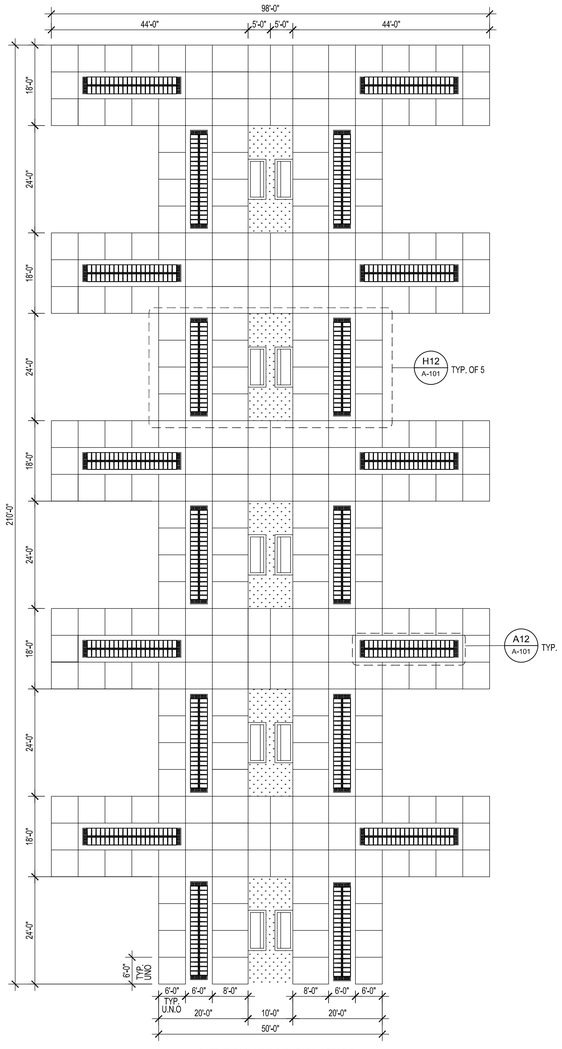
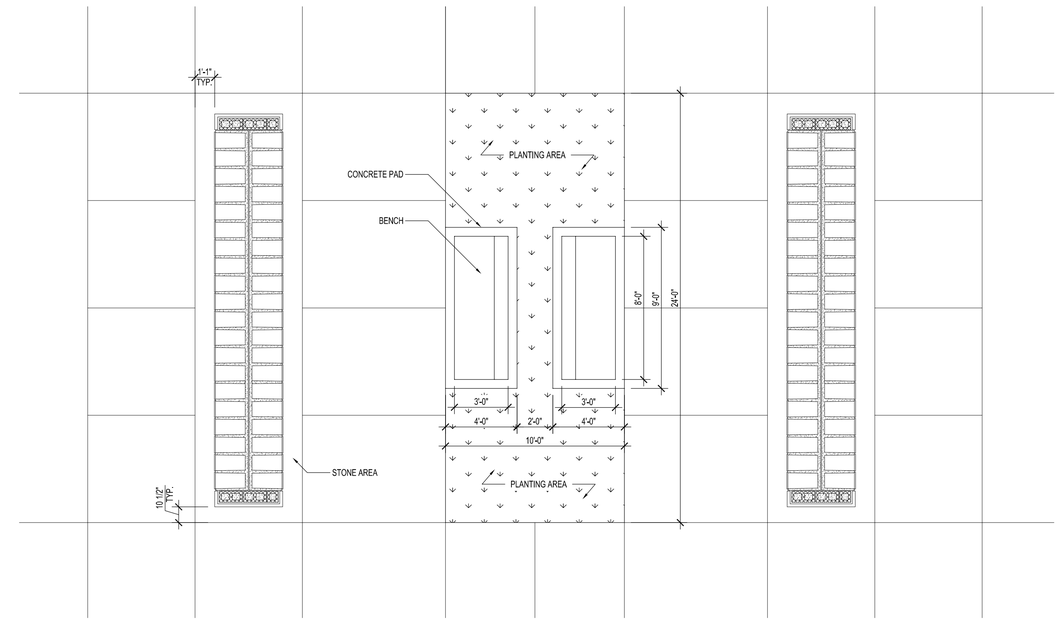
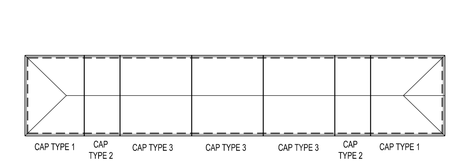


NOTE: TYPICAL OF (3) LOCATIONS- SEE CIVIL

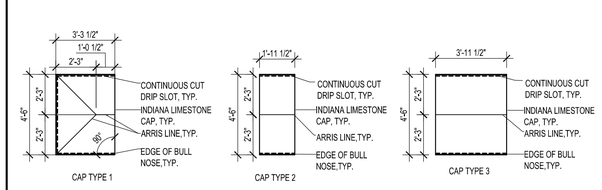
A1	TYPICAL PLAN
1/16" = 1'-0"	



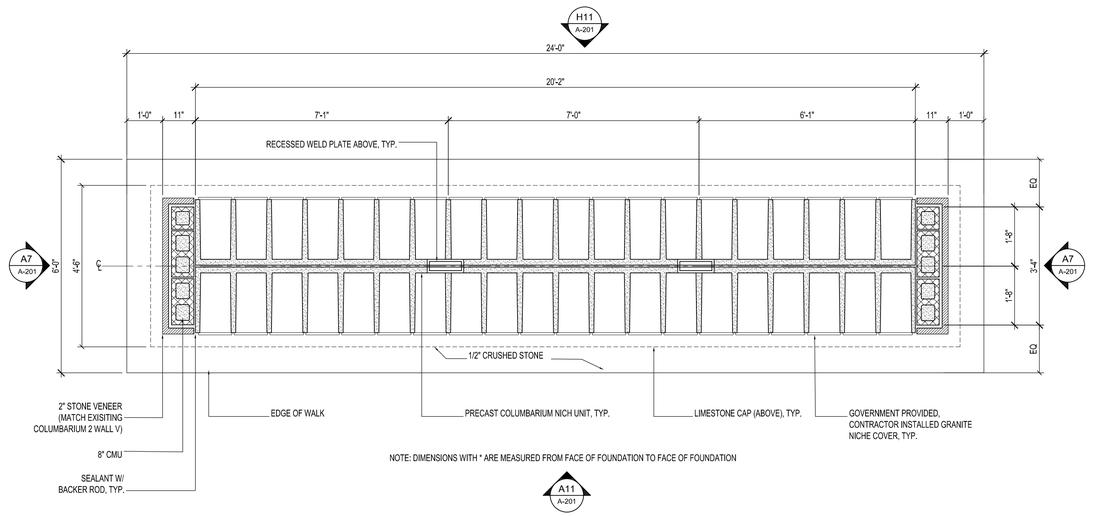
H12	PLAN @ BENCH AND COLUMBARIUM
1/4" = 1'-0"	



F12	TYPICAL CAP PLAN
1/4" = 1'-0"	



F17	CAP TYPES
1/4" = 1'-0"	



NOTE: DIMENSIONS WITH * ARE MEASURED FROM FACE OF FOUNDATION TO FACE OF FOUNDATION

A12	TYPICAL COLUMBARIUM PLAN
1/2" = 1'-0"	

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BEAR, DE

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PLANS

Dwg.No.: **A-101**

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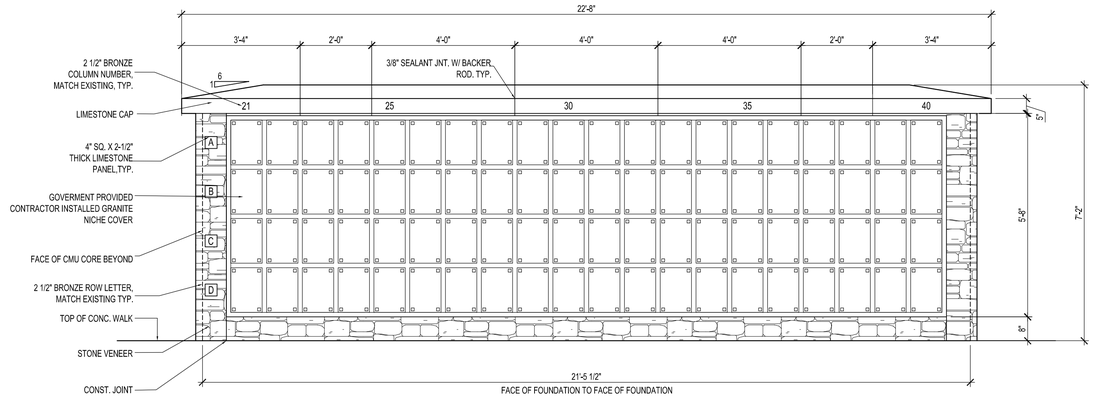
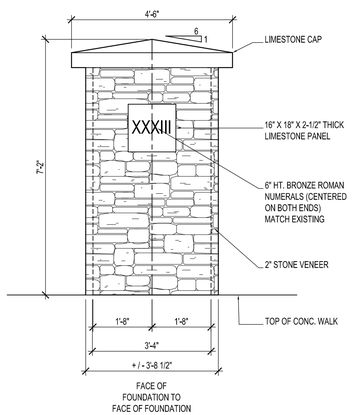


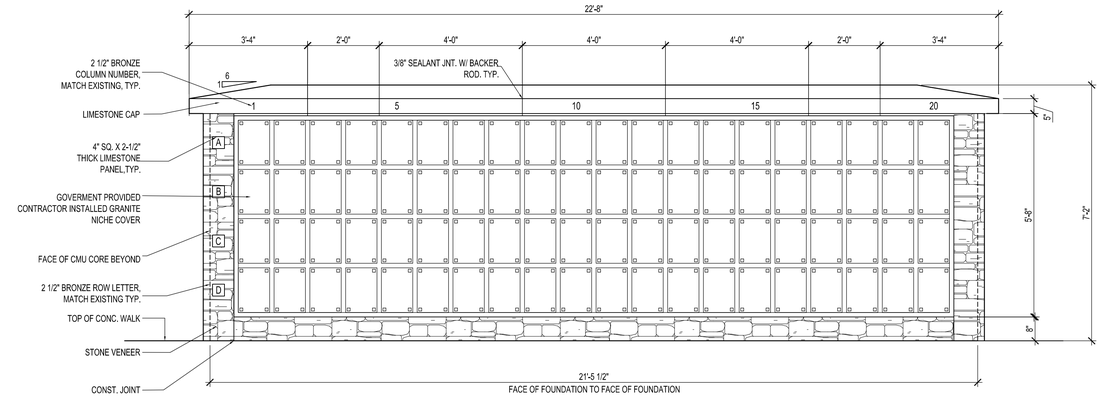
H11 TYPICAL BACK ELEVATION

1/2" = 1'-0"



A7 TYPICAL END PANEL ELEVATION

1/2" = 1'-0"



A11 TYPICAL FRONT ELEVATION

1/2" = 1'-0"

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ELEVATIONS

Dwg.No.: **A-201**

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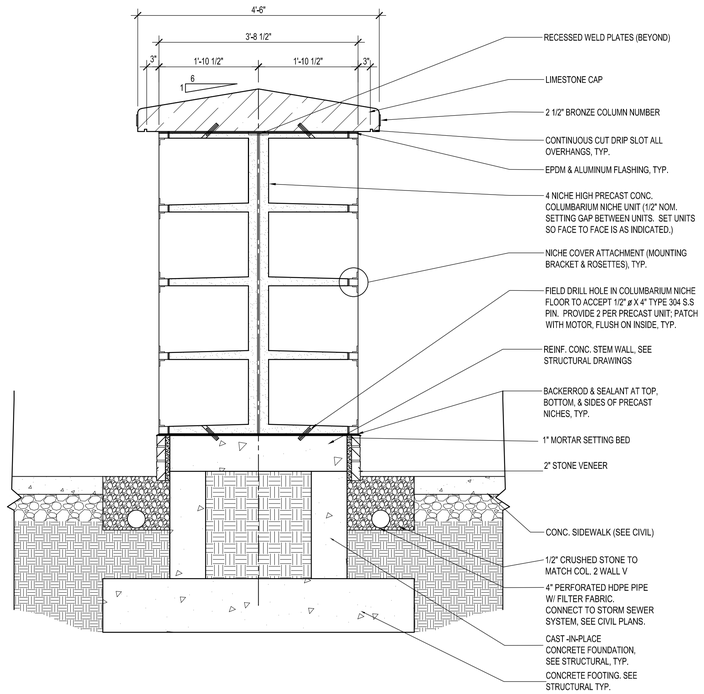
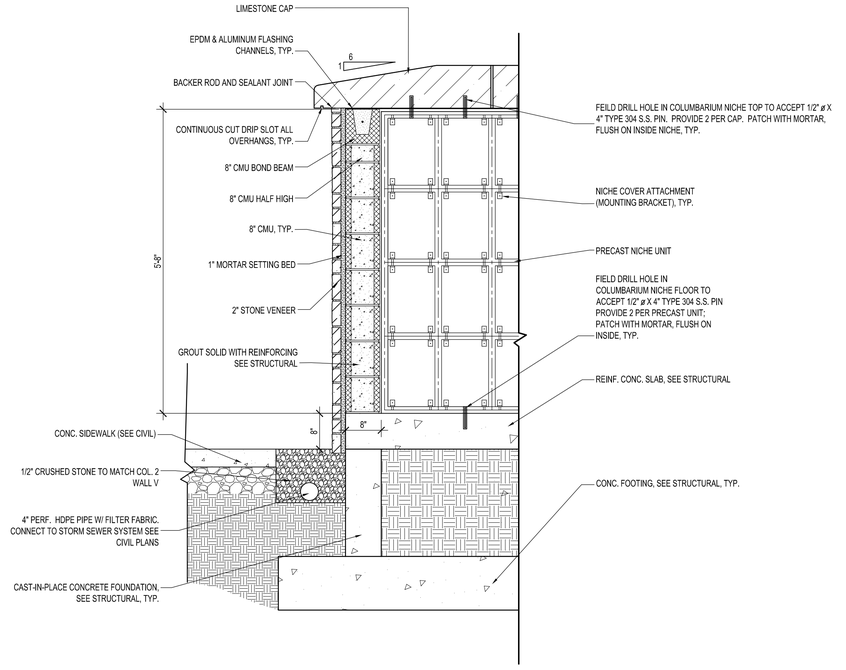
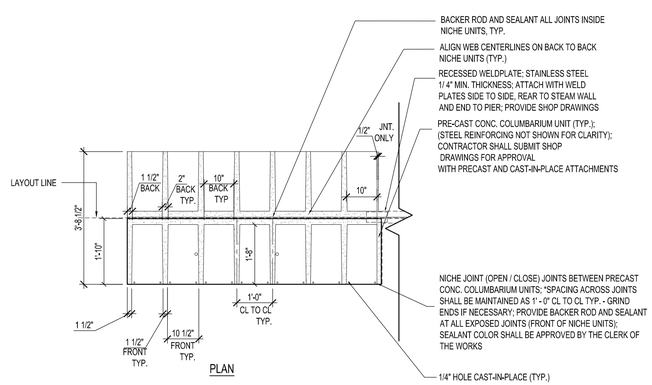


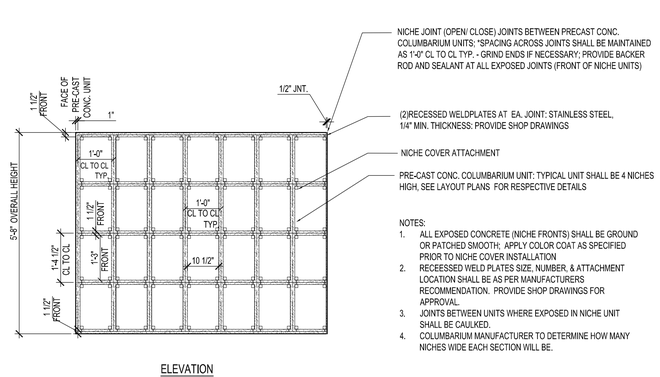
F1	COLUMBARIUM WALL SECTION
3/4" = 1'-0"	



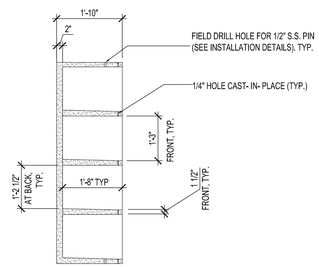
F11	COLUMBARIUM PIER SECTION
3/4" = 1'-0"	



PLAN



ELEVATION



SECTION

A1	PRECAST CONCRETE COLUMBARIUM UNITS
1/2" = 1'-0"	

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SECTIONS

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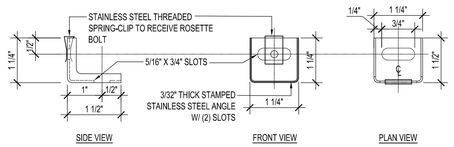
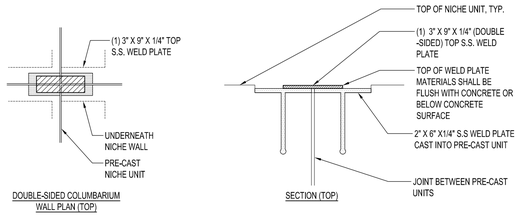


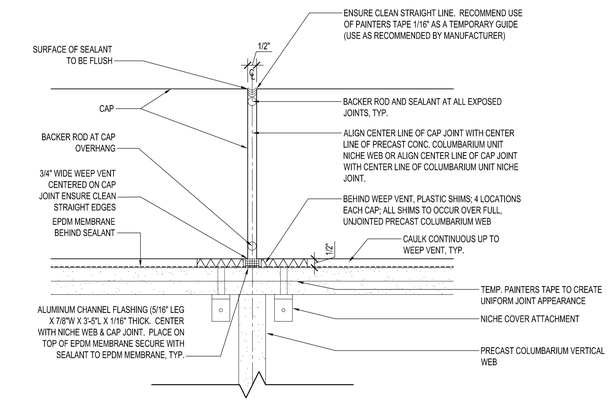
L1 MOUNTING BRACKET DETAIL

NTS



L6 WELD PLATE DETAILS

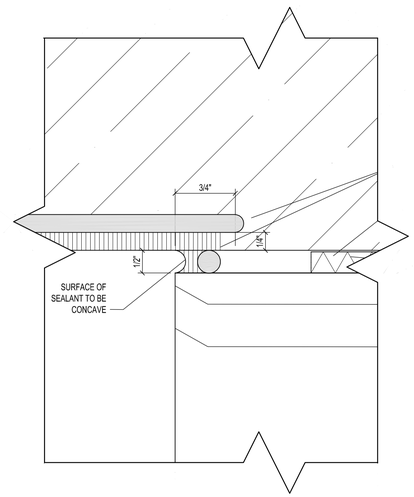
NTS



NOTE:
ALL JOINTS SHALL BE CLEAN & PRIMED PRIOR TO APPLYING SEALANT. APPLY APPROVED JOINT PRIMER IMMEDIATELY PRIOR TO SEALANT APPLICATION FOLLOWING CLEANING WHICH IS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. DEPTH OF SEALANT SHALL BE EQUAL TO WIDTH OF JOINT +/- 1/16" TYP. MANUFACTURERS RECOMMENDATIONS GOVERN. BACKER ROD NOT MEETING THIS TOLERANCE SHALL BE REMOVED AND REST BEFORE SEALANT INSTALLATION.

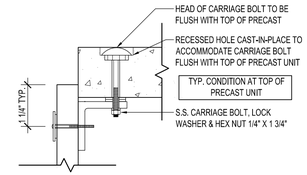
F1 CAP SETTING ELEVATON DETAIL

3" = 1'-0"



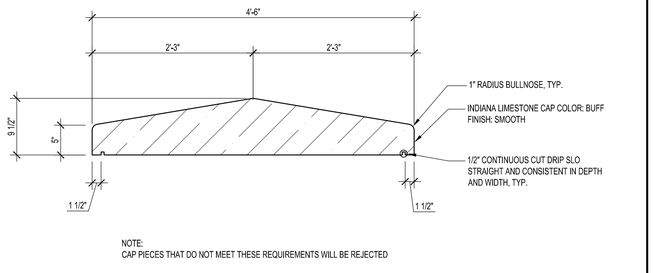
F8 ENLARGED CAP SETTING DETAIL

1'-0" = 1'-0"



F17 NICHE COVER ATTACHMENT

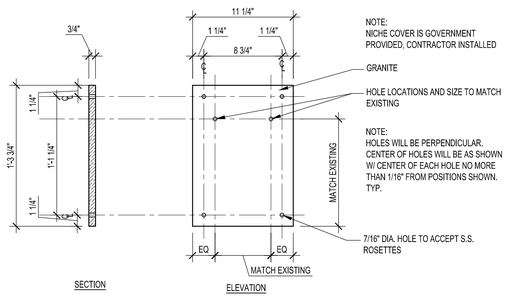
NTS



NOTE:
CAP PIECES THAT DO NOT MEET THESE REQUIREMENTS WILL BE REJECTED

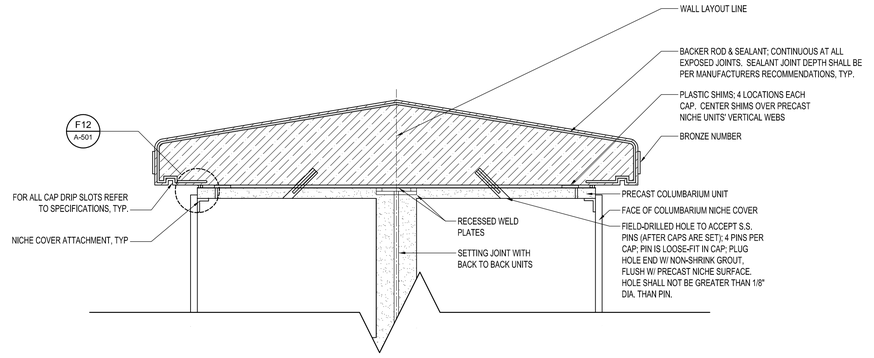
A1 CAP SECTION

1" = 1'-0"



A7 NICHE COVER DETAIL

1 1/2" = 1'-0"



A12 CAP SETTING DETAIL

1 1/2" = 1'-0"

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DETAILS

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