NOTES:
1. MINIMUM OVERLAND SLOPE FOR CAP SUBGRADE IS 2%.
2. MINIMUM CHANNEL SLOPE FOR CAP SUBGRADE IS 1%.
3. SANITARY SEWER LINER CAP OR RELOCATION NOT INCLUDED OR REQUIRED FOR 30 % BID. SANITARY SEWER REQUIREMENTS TO BE INCLUDED IN FUTURE DESIGN SUBMITTAL.
4. GRADING IS CONCEPTUAL AND WILL BE REVISED TO MATCH LINER LIMITS IN FUTURE DESIGN SUBMITTAL.

POND ABC ADDITIONAL ASH AREA OUTSIDE OF LIMITS OF LINER. EXCAVATE, HAUL AND DISPOSE OF OFFSITE.

PROP. POND ABC STORMWATER DIVERSION DITCH (SEE SHEET 38)

PROP. POND ABC LIMIT OF LINER AREA = 17.36 AC (ADDITIONAL GRADING NOT SHOWN ON 30 % DESIGN = 4.91 AC) (SEE SHEET 37)

EX. CULVERT

EX. WETLANDS (TYP.)

SANITARY SEWER (SEE NOTE 3)

MINIMUM ELEV. OF OHE 62.86'

MINIMUM ELEV. OF OHE 52.20'

MINIMUM ELEV. OF OHE 51.47'

MINIMUM ELEV. OF OHE 53.85'

EX. PIPELINE

PROP. POND ABC PERIMETER CHANNEL (SEE SHEET 37)

PROP. POND ABC CLEANOUT (TYP.) (SEE SHEET 41)

EX. POND ABC OUTFALL

PROP. POND ABC CHANNEL 1 (SEE SHEET 37)

PROP. POND ABC SUBSURFACE DRAIN (TYP.) (SEE SHEET 37)

PROP. POND ABC CHANNEL 2 (SEE SHEET 37)

PROP. POND ABC COFFERDAM (TYP.) (SEE SHEET XX)

ELEV. OF OHE 34.58'
ELEV. OF OHE 49.05'
ELEV. OF OHE 49.49'
ELEV. OF OHE 50.73'
ELEV. OF OHE 50.68'
ELEV. OF OHE 51.13'

RIPRAP OUTLET PROTECTION (SEE SHEET 38)

EX. WETLANDS (TYP.)

SCALE: 1" = 50'
50 0 50 100

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing by manual drafting methods.

DRAWING TITLE
SUBGRADE PLAN - POND ABC CLOSURE

CLIENT
DOMINION
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION BY-PRODUCT
POND CLOSURES
PRINCE WILLIAM COUNTY, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS 2223\CAD\Production Drawings\C150132-00-000-C-D1-009.dwg P:\DOTTIE Brt. Byrd Cummings P OF ??? CM.dwg

DRAWN BY:	CHECKED BY:	APPROVED BY:
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	05/14/2015

SHEET NO.: 9 OF 44

REVISION

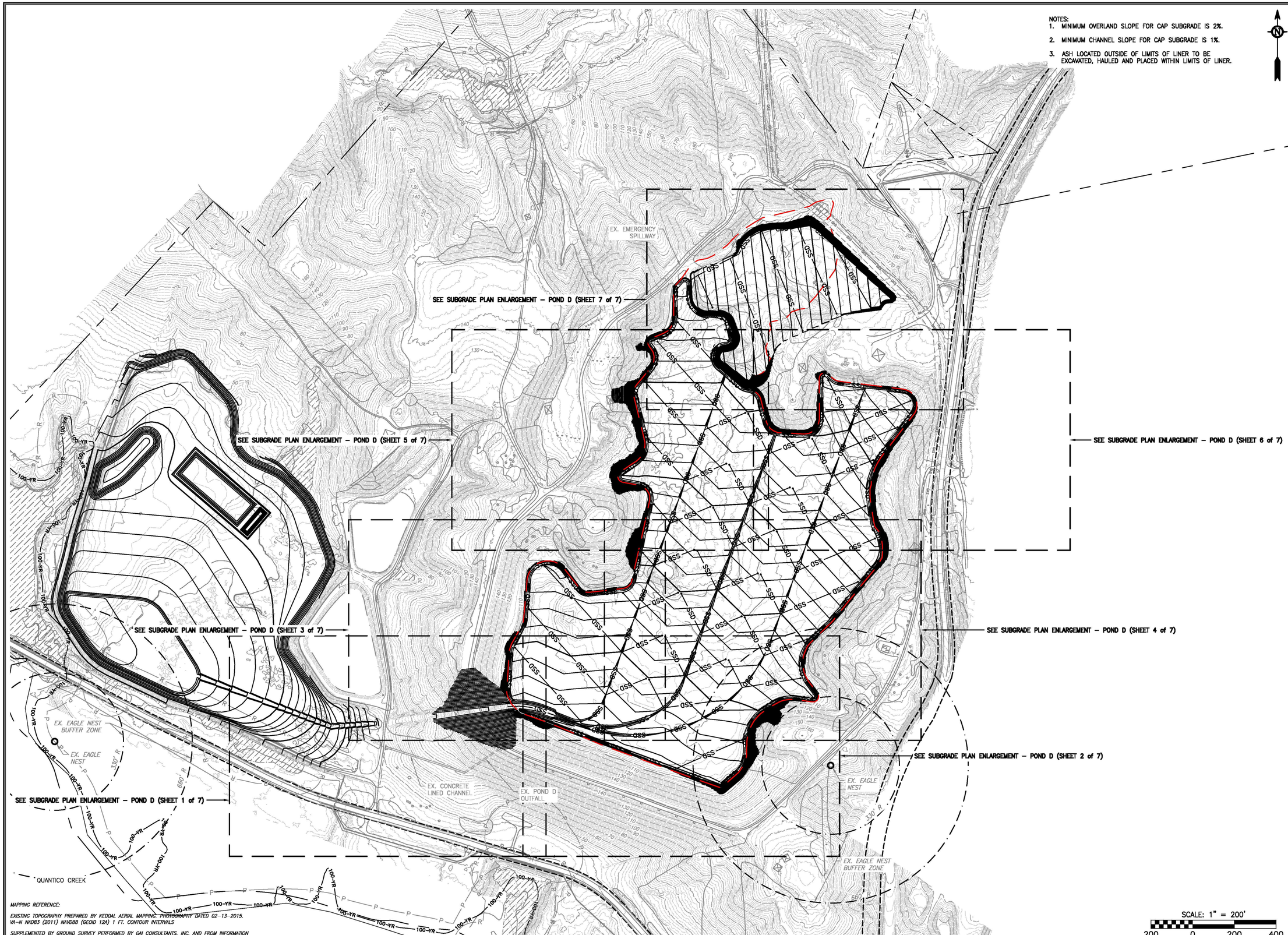
GAI FILE NUMBER: C150132-00-000-C-D1-009

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 009

30% DESIGN

NOTES:
1. MINIMUM OVERLAND SLOPE FOR CAP SUBGRADE IS 2%.
2. MINIMUM CHANNEL SLOPE FOR CAP SUBGRADE IS 1%.
3. ASH LOCATED OUTSIDE OF LIMITS OF LINER TO BE EXCAVATED, HAULED AND PLACED WITHIN LIMITS OF LINER.



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE
OVERALL SUBGRADE PLAN - POND D CLOSURE

CLIENT
DOMINION
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION BY-PRODUCT
POND CLOSURES
PRINCE WILLIAM COUNTY, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

CA: CAD FILE PATH: Z:\Energy\2015\C150132.00 — DOM — Possum Point PS C223\CAD\Production Drawings\C150132-00-000-C-D1-010.dwg PLOTTED BY: Ryan Cummings PLOT FILE: CA.ctb

DRAWN BY:	CHECKED BY:	APPROVED BY:
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	05/14/2015

SHEET NO.: 10 OF 44

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-010

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 010

30% DESIGN

NOTE:
PROPOSED GRADING IS BASED ON DESIGN GRADES FROM THE CONSTRUCTION OF POND E AND IS APPROXIMATE. PROPOSED GRADING AND SOIL VOLUMES WILL BE UPDATED BY THE ENGINEER AFTER COMPLETION OF THE CLEAN CLOSURE OF POND E SCHEDULED FOR OCTOBER 2015.

NOTE:
FINAL CONDITIONS GRADING PLAN WILL BE PROVIDED WITH 60% DESIGN SUBMITTAL. FINAL GRADING PLAN IS ANTICIPATED TO INCLUDE PLACING APPROX. 4 FEET OF FILL OVER THE BOTTOM OF THE BASIN AND SLOPING THE POND BOTTOM TO DRAIN. THE PROPOSED RISER STRUCTURE WILL BE MODIFIED TO SERVE AS A PERMANENT STORMWATER BMP.

NOTE:
FINAL CONDITIONS GRADING PLAN WILL BE PROVIDED WITH 60% DESIGN SUBMITTAL. FINAL GRADING PLAN IS ANTICIPATED TO INCLUDE PLACING APPROX. 4 FEET OF FILL OVER THE BOTTOM OF THE BASIN, SLOPING THE POND BOTTOM TO DRAIN AND EXTENDING CHANNELS 1 & 2. THE PROPOSED RISER STRUCTURE WILL BE MODIFIED TO SERVE AS A PERMANENT STORMWATER BMP.

SEE SUBGRADE PLAN ENLARGEMENT – POND E (SHEET 3 of 3)

SEE SUBGRADE PLAN ENLARGEMENT – POND E (SHEET 2 of 3)

SEE SUBGRADE PLAN ENLARGEMENT – POND E (SHEET 1 of 3)

PROP. BASIN E-2

PROP. 24" HDPE GRAVITY PIPE

PROP. POLISHING WETLAND (SEE SHEET 40)

PROP. SEDIMENTATION FOREBAY (SEE SHEET 40)

PROP. GRAVITY PIPE TO OUTLET INTO SEDIMENTATION FOREBAY

PROP. POND E CHANNEL 2 (SEE SHEET 38)

PROP. BASIN E-1

PROP. POND E CHANNEL 1 (SEE SHEET 38)

TOP OF POND

EX. OUTLET RISER BOX

EX. WOODEN STAIRCASE

EX. OUTFALL 005

EX. METALS POND "B"

EX. CONC. LINED CHANNEL

EX. CULVERT

EX. METALS POND "A"

EX. INTERNAL OUTFALL 501

POND D

EX. POND D OUTLET STRUCTURE

EX. POND D OUTLET PIPE

EX. CONC. LINED CHANNEL

EX. COAL ASH SLUICE LINE

EX. WATERLINE

EX. EAGLE NEST

EX. EAGLE NEST 330' R BUFFER ZONE

EX. EAGLE NEST 660' R BUFFER ZONE

QUANTICO CREEK

POSSUM POINT RD. (RT. 643)

2.0%

1.0%

100-YR

SCALE: 1" = 100'

100 0 100 200

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE
OVERALL SUBGRADE PLAN - POND E CLOSURE

CLIENT
DOMINION
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
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POND CLOSURES
PRINCE WILLIAM COUNTY, VA

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GA CAD FILE PATH: Z:\Energy\2015\C150132.00 — DOM — Possum Point PS CCR\CAD\Production Drawings\C150132-00-000-C-D1-018.dwg PLOTTED BY: Ryan Cummings P.OT FILE: CA.stb

DRAWN BY:	CHECKED BY:	APPROVED BY:
DOYLEMP	KINDEKW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	05/14/2015

SHEET NO.: 18 OF 44

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-018

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 018

30% DESIGN

00011698