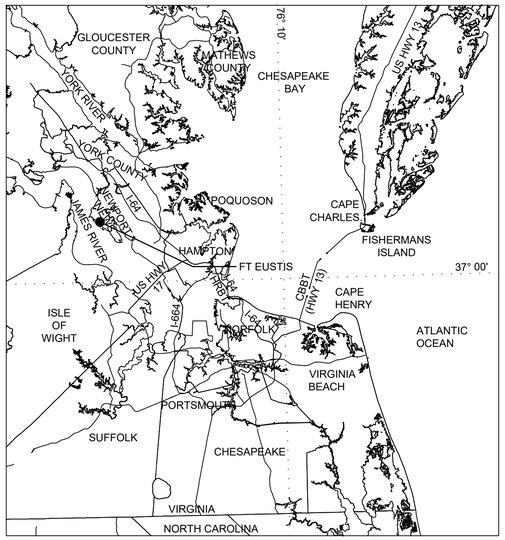
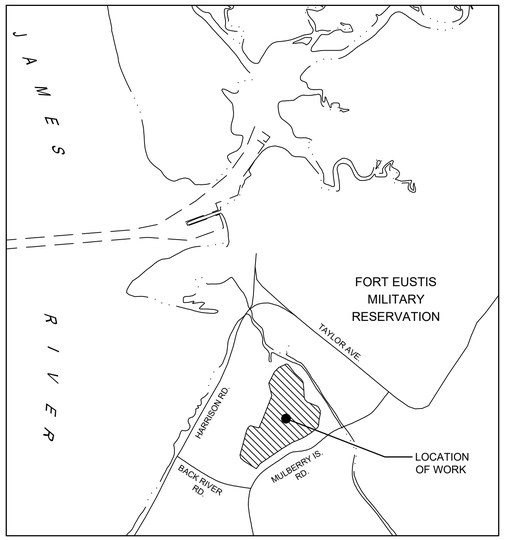
US Army Corps of Engineers®

NORFOLK DISTRICT

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA) PLANS FOR DIKE REHABILITATION FORT EUSTIS, NEWPORT NEWS VIRGINIA



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

INDEX OF DRAWINGS	
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S-302	SPILLBOX DETAILS SHEET (1)
S-303	SPILLBOX DETAILS SHEET (2)
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VH-304	ACCESS ROAD SECTIONS AND PROFILE SHEET

SOLICITATION NO.: XXX

CONTRACT NO.: XXX

ISSUE DATE: 2025-12-03

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDICATED ON INDEX TO DRAWINGS.

DEPARTMENT OF THE ARMY
NORFOLK DISTRICT, CORPS OF ENGINEERS
NORFOLK, VIRGINIA

RECOMMENDED: ENGINEERING BRANCH DESIGN LEAD	
SUBMITTED: CHIEF, DESIGN BRANCH	APPROVED: CHIEF, ENGINEERING DIVISION

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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DESIGNED BY: R. MCELHINNY/M.D.M.	ISSUE DATE: 2025-12-03
DRAWN BY: A. TIERNEY/J. WILLIAMS	SOLICITATION NO.: XXX
CHECKED BY: M. LOPEZ RIVERA	CONTRACT NO.: XXX
SUBMITTED BY: R. MCELHINNY/M.D.M.	NAO FILE NO.: SKU.2024-08-01.PS
SIZE: ANSI D	SCALE: -

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

COVER SHEET, INDEX OF DRAWINGS, VICINITY, AND LOCATION MAP

SHEET ID

G-001

NOTES:

DATA FOR DATUM DIAGRAM WAS DETERMINED BY THE NGS OPUS NAVD88 SOLUTION AND NOAA V DATUM ONLINE PROGRAM V 4.2.2 ON 7/7/2022 AT GAUGE SITES.

MEAN LOWER LOW WATER, 1983-2001 NATIONAL TIDAL DATUM EPOCH, WAS DETERMINED BY THE NOAA V DATUM ONLINE PROGRAM V 4.2.2 AT SKIFFES CREEK ON THE JAMES RIVER AT FORT EUSTIS VA.

ELEVATIONS ARE IN FEET REFERRED TO NOS MLLW AND WERE TAKEN ON 13 THROUGH 30 SEPTEMBER & 01 AUGUST 2024.

MEAN RANGE OF TIDE IS 2.24 FEET AT SKIFFES CREEK, BASED ON NOAA VDATUM PROGRAM.

NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88 WAS DETERMINED BY A 5 HOUR OPUS GPS SESSION ON CE TIDAL BENCHMARK "THIRD, 2001" PIO BBDL92 ON 6/14/2022 AND IS 1.49' ABOVE NOS MLLW 83-01 BASED ON GEOID18.

COORDINATES ARE IN U.S. SURVEY FEET, REFERRED TO THE VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE AND ARE BASED ON NORTH AMERICAN DATUM OF 1983.

BACKGROUND IMAGERY: VIRGINIA BASE MAPPING PROGRAM 2021 IMAGERY.

THIS MAP CONTAINS NO BOUNDARY OR PROPERTY LINE DATA AND IS NOT INTENDED TO BE USED FOR PROPERTY TRANSFER.

AREA INSIDE DREDGED MATERIAL PLACEMENT AREA COMPUTED FROM INSIDE TOP OF BERM = 62.8± ACRES

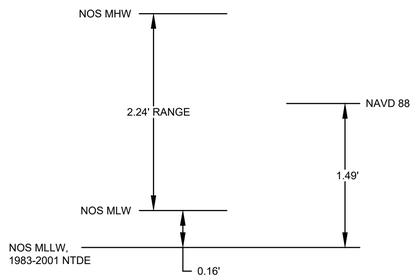
- LEGEND -

- EXISTING MIN0R CONTOUR
- EXISTING MAJOR CONTOUR
- SILT FENCE (SF)
- PROPOSED DIKE SLOPE

BENCHMARKS	
BENCHMARK	ELEVATION
CE "THIRD, 2001"	+9.23'
CE "PORT, 2001"	+8.08'
CE "PMI-5, 2003"	+8.66'
ELEVATIONS ARE RELATIVE TO NOS MLLW, 1983-2001 NTDE	

ABBREVIATIONS

EL.	ELEVATION
OFF.	OFFSET
INV	INVERT
CP	CORRUGATED PIPE
MLLW	MEAN LOW LOWER WATER
MLW	MEAN LOW WATER
MHW	MEAN HIGH WATER
NOS	NATIONAL OCEAN SERVICE
NAVD	NORTH AMERICAN VERTICAL DATUM
VOL	VOLUME



DATUM DIAGRAM
(NOT TO SCALE)

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MCELHINNY/M.D.M.
DRAWN BY: A. TIERNEY/J. WILLIAMS
CHECKED BY: M. LOPEZ RIVERA
SUBMITTED BY: R. MCELHINNY/M.D.M.
SIZE: ANSI D
ISSUE DATE: 2025-12-03
SOLICITATION NO.: XXX
CONTRACT NO.: XXX
NAO FILE NO.: SKU.2024-08-01.PS

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

GENERAL NOTES
SHEET

SHEET ID
G-002

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E4TONJKW

NOTES:

SEE SHEET G-002 FOR SURVEY INFORMATION.

LEGEND:

NO SURVEY DATA COVERAGE WITHIN THIS AREA.

INV=1.74

24" DOUBLE INSULATED CORRUGATED METAL

SPILL BOX DISCHARGE PIPE

WOODEN WALKWAY

INV=2.10

INV=1.29

WOODEN WALKWAY

24" DOUBLE INSULATED CORRUGATED METAL

SPILL BOX DISCHARGE PIPE

INV=2.76

DREDGED MATERIAL TURN AROUND AREA

HARRISON ROAD

TAYLOR AVE

PATCH ROAD

MULBERRY ISLAND ROAD

WILSON AVE

0 150' 300'

PLAN NORTH

US Army Corps of Engineers®

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CHECKED BY: M. LOPEZ RIVERA
SUBMITTED BY: R. MCELHINNY/M.D.M.
SIZE: ANSI D

ISSUE DATE: 2025-12-03
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U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

EXISTING CONDITIONS SHEET

SHEET ID

VH-101

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NOTES:

1. CONTRACTOR WILL REMOVE AND DISPOSE OF ALL DEMOLITION ITEMS OFF PROPERTY FOLLOWING ALL LOCAL, STATE AND FEDERAL REGULATIONS. GRUBBED MATERIAL CAN BE DISPOSED OF WITHIN THE PLACEMENT SITE.

SHEET NOTES:

(1) CLEAR AND GRUB THE FOOTPRINT OF THE PROPOSED DIKE AND 5 FEET BEYOND.

(2) REMOVE EXISTING WALKWAY AND HAND RAILING, AND REMOVE EXISTING SPILLBOX ABOVE GRADE.

LEGEND:

LIMITS OF CLEARING AND GRUBBING.

SPILL BOX DISCHARGE PIPE

INV=1.74

24" DOUBLE INSULATED CORRUGATED METAL

WOODEN WALKWAY

INV=2.10

INV=1.29

WOODEN WALKWAY

SPILL BOX DISCHARGE PIPE

INV=2.76

24" DOUBLE INSULATED CORRUGATED METAL

DREDGED MATERIAL TURN AROUND AREA

HARRISON ROAD

TAYLOR AVE

PATCH ROAD

MULBERRY ISLAND ROAD

WILSON AVE

0 150' 300'

PLAN NORTH

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DEMOLITION PLAN SHEET

SHEET ID

VH-102

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BORROW AREA: CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CH LENGTH	CH BEARING
C61	139.06'	83.48'	095°26'34"	123.53'	S65° 50' 48.58"W
C62	341.49'	226.10'	086°32'20"	309.95'	S60° 13' 53.30"W

BORROW AREA: LINE TABLE

LINE #	LENGTH	DIRECTION
L58	238.67'	S75° 04' 26.92"E
L59	144.41'	S81° 24' 34.88"E
L60	526.30'	S16° 33' 22.47"W
L61	13.97'	S41° 03' 47.00"E
L62	22.72'	S17° 25' 30.19"W
L63	50.12'	S32° 49' 47.88"W
L64	178.99'	S10° 29' 43.72"W
L65	350.15'	S21° 20' 24.87"W
L66	114.33'	S21° 50' 22.03"W
L67	63.62'	S10° 57' 22.47"W
L68	107.15'	S24° 18' 50.19"E
L69	109.77'	S04° 43' 35.38"E
L70	119.80'	S25° 12' 17.14"W
L71	102.83'	N24° 06' 23.50"W
L72	5.38'	N34° 20' 11.04"W
L73	69.28'	N51° 58' 44.79"W
L74	61.06'	N34° 47' 22.52"W
L75	53.95'	N30° 52' 01.49"W
L76	63.83'	N04° 28' 29.02"W
L77	78.87'	N09° 17' 46.35"W

BORROW AREA: LINE TABLE

LINE #	LENGTH	DIRECTION
L78	70.29'	N34° 14' 19.14"W
L79	49.24'	N27° 02' 44.91"W
L80	92.54'	N57° 41' 22.01"W
L81	187.22'	N58° 16' 53.03"W
L82	170.62'	N19° 15' 47.73"W
L83	197.38'	N05° 49' 50.88"W
L84	89.37'	N38° 37' 23.60"E
L85	170.91'	N30° 05' 58.32"W
L86	167.09'	N09° 47' 28.79"W
L87	211.40'	N53° 28' 22.38"E
L88	403.16'	N74° 13' 42.27"E
L89	318.29'	N03° 39' 55.50"E
L90	241.81'	N57° 44' 36.00"E
L91	224.23'	S78° 04' 49.96"E

NOTES:
1. MAINTAIN A MINIMUM DISTANCE OF 20' BETWEEN THE TOP OF THE BORROW AREA EXCAVATION AND THE TOE OF THE NEW PERIMETER DIKE.
2. SEE SHEET G-002 FOR SURVEY INFORMATION.

LEGEND:

LIMITS OF BORROW AREA

GEOTECHNICAL BORINGS

TEST PITS

VANE SHEAR TEST POINTS

HARRISON ROAD

TAYLOR AVE

PATCH ROAD

WILSON AVE

MULBERRY ISLAND ROAD

DH-1139-05/CPT-1139-05/DMT-1139-03

VST-1139-02

DH-1139-06/CPT-1139-06

VST-1139-03

DH-1139-04/CPT-1139-04

DH-1139-03/CPT-1139-03

DH-1139-07/CPT-1139-07/DMT-1139-04

DH-1139-02/CPT-1139-02/DMT-1139-02

VST-1139-01

DH-1139-08/CPT-1139-08/DMT-1139-05

DH-1139-01/CPT-1139-01/DMT-1139-01

TP-1139-01 TP-1139-02 TP-1139-03 TP-1139-04 TP-1139-05 TP-1139-06 TP-1139-07 TP-1139-08 TP-1139-09 TP-1139-10 TP-1139-11 TP-1139-12 TP-1139-13

VANE SHEAR TEST

NAME	NORTHING	EASTING
VST-1139-01	3,583,770.97	12,035,244.66
VST-1139-02	3,585,811.62	12,036,280.63
VST-1139-03	3,585,405.15	12,036,689.65

VANE SHEAR TEST

NAME	NORTHING	EASTING
TP-1139-01	3,584,057.34	12,035,396.56
TP-1139-02	3,583,857.84	12,035,234.54
TP-1139-03	3,583,680.43	12,035,393.15
TP-1139-04	3,583,665.43	12,035,676.89
TP-1139-05	3,583,939.43	12,035,619.73
TP-1139-06	3,584,032.93	12,035,742.36
TP-1139-07	3,584,275.77	12,035,717.37
TP-1139-08	3,584,631.82	12,035,845.23
TP-1139-09	3,584,921.90	12,035,984.09
TP-1139-10	3,585,052.82	12,035,955.22
TP-1139-11	3,584,654.28	12,036,257.64
TP-1139-12	3,584,201.37	12,036,371.69
TP-1139-13	3,584,039.60	12,036,124.58

GEOTECHNICAL BORINGS

NAME	NORTHING	EASTING
DH-1139-01/CPT-1139-01/DMT-1139-01	3,583,100.85	12,035,434.53
DH-1139-02/CPT-1139-02/DMT-1139-02	3,583,806.99	12,035,199.97
DH-1139-03/CPT-1139-03	3,584,517.74	12,035,756.74
DH-1139-04/CPT-1139-04	3,585,162.63	12,035,922.88
DH-1139-05/CPT-1139-05/DMT-1139-03	3,585,860.82	12,036,302.22
DH-1139-06/CPT-1139-06	3,585,415.18	12,036,723.05
DH-1139-07/CPT-1139-07/DMT-1139-04	3,584,593.51	12,037,224.06
DH-1139-08/CPT-1139-08/DMT-1139-05	3,583,765.73	12,036,462.72

0 150' 300'

PLAN NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MCELHINNY/M.D.M.
DRAWN BY: A. TIERNEY/J. WILLIAMS
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U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

BORING LOCATION AND BORROW AREA SHEET

SHEET ID
VH-103

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NOTES:

SEE SHEET G002 FOR SURVEY INFORMATION.

ALIGNMENT: DIKE RAISING

NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C37	264.00'	392.50'	S45° 53' 20.03"W
C38	205.71'	247.50'	S06° 20' 25.14"W
C39	228.42'	358.56'	S04° 40' 58.41"W
C40	317.09'	194.92'	S59° 09' 21.92"W
C41	160.33'	99.57'	S67° 05' 04.63"W
C42	269.27'	187.26'	S18° 02' 52.42"E
C43	115.38'	229.91'	S71° 59' 55.60"E
C44	240.38'	1120.77'	N54° 45' 11.40"E
C45	266.47'	1243.25'	N64° 12' 08.19"E
C46	257.01'	1280.65'	N62° 53' 31.70"E
C47	121.07'	154.52'	N28° 10' 11.58"E
C48	168.95'	119.49'	N37° 28' 02.71"W
C49	286.97'	253.74'	N39° 48' 13.10"W
C50	226.11'	307.50'	N25° 38' 38.02"W
C51	47.47'	187.18'	N40° 51' 38.47"W
C52	184.06'	2130.15'	N34° 53' 28.27"W
C53	118.16'	126.06'	N66° 46' 13.80"E
C54	47.32'	52.50'	N80° 09' 40.54"W
L35	185.43'		S27° 19' 29.92"W
L36	131.18'		S17° 25' 29.05"E
L37	605.90'		S17° 07' 40.34"W
L38	191.18'		S56° 14' 45.72"E
L39	665.78'		N57° 58' 12.49"E
L40	307.56'		N54° 21' 44.87"E
L41	360.02'		N08° 33' 10.37"E
L42	186.42'		N72° 14' 15.32"W
L43	296.73'		N04° 55' 52.88"W
L44	157.72'		N46° 16' 53.63"W
L45	53.63'		N45° 21' 32.80"E
L46	5.15'		N39° 38' 52.57"E
L47	660.00'		S22° 12' 06.70"W
L48	47.34'		S64° 57' 43.29"W
L49	35.26'		S61° 55' 37.03"W
L50	43.18'		S72° 24' 50.99"W
L51	66.76'		N36° 16' 44.17"W

ALIGNMENT: ACCESS ROAD

NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C55	111.11'	191.01'	S67° 32' 52.91"W
C56	94.17'	91.91'	S59° 18' 33.87"W
C57	26.86'	200.00'	S36° 16' 10.38"W
C58	23.78'	194.11'	S43° 37' 37.14"W
C59	12.42'	194.11'	S48° 58' 08.46"W
C60	2.98'	194.11'	S51° 14' 28.01"W
L52	32.16'		S32° 25' 18.06"W
L53	17.86'		S40° 07' 02.70"W
L54	24.85'		S47° 08' 11.57"W
L55	28.99'		S50° 48' 05.36"W
L56	27.63'		S51° 40' 50.65"W
L57	68.22'		S35° 41' 29.42"W

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DIKE
LAYOUT PLAN
SHEET

SHEET ID
VH-104

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KEY NOTES:

CONSTRUCT NEW SPILLBOX. SEE SHEETS S-302 THROUGH S-305.

EXTEND EXISTING 30" CMP TO NEW SPILLBOX.

NOTES:

SEE SHEET G-002 FOR SURVEY INFORMATION.

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF ANY GRADING.
2. THE CONTRACTOR SHALL CLEAR ALL PHRAGMITES, VEGETATION, SHRUBS, AND TREES FROM WITHIN THE FOOTPRINT OF THE NEW DIKE.
3. EXCAVATION WITHIN CONTAINMENT AREA SHALL NOT BE STEEPER THAN THE INTERIOR SLOPE OF THE DIKE 1.5:1 (H:V)
4. CONTRACTOR SHALL VERIFY THAT BLENDED SOIL MEETS THE REQUIREMENTS OF SATISFACTORY MATERIAL EVERY 1,000 CY OR FRACTION THEREOF PRIOR TO PLACEMENT IN ACCORDANCE WITH SPEC 31 00 00.
5. SEE CROSS-SECTIONS ON SHEETS VH-301 AND VH-302 FOR FINAL GRADES.
6. CONTRACTOR SHALL EXCAVATE EXISTING MATERIAL WITHIN DISPOSAL FACILITY AND BLEND SOIL DEPOSITS TO ACHIEVE SATISFACTORY MATERIAL FOR DIKE CONSTRUCTION. REFER TO SPECIFICATIONS FOR SOIL REQUIREMENTS AND VERIFICATIONS.
7. CONTRACTOR SHALL CUT/FILL AND REGRADE AS REQUIRED TO WITHIN CONTAINMENT AREA TO PROVIDE PROPER DRAINAGE TO THE SPILLBOX AFTER DIKE CONSTRUCTION AND EXCAVATION OPERATIONS ARE COMPLETE.
8. DUE TO THE METHOD OF PLACEMENT OF DREDGED MATERIAL WITHIN CONTAINMENT AREA THE CONTRACTOR SHOULD EXPECT THAT EQUIPMENT WITH LOW GROUND CONTACT PRESSURE WILL BE REQUIRED TO FACILITATE WORK.

E10
VH-301

INVERT OUT = 1.74'

24" DOUBLE INSULATED CORRUGATED METAL

EXISTING SPILLBOX 1
INVERT IN= 2.10'

J17
VH-301

VH105

VH106

TAYLOR AVE

PATCH ROAD

WILSON AVE

MULBERRY ISLAND ROAD

0 100' 200'

PLAN NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MCELHINNY/M.D.M.	ISSUE DATE: 2025-12-03
DRAWN BY: A. TIERNEY/J. WILLIAMS	SOLICITATION NO.: XXX
CHECKED BY: M. LOPEZ RIVERA	CONTRACT NO.: XXX
SUBMITTED BY: R. MCELHINNY/M.D.M.	NAO FILE NO.: SKU 2024-08-01 PS
SIZE: ANSI D	-

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DIKE GRADING PLAN SHEET (1)

SHEET ID

VH-105

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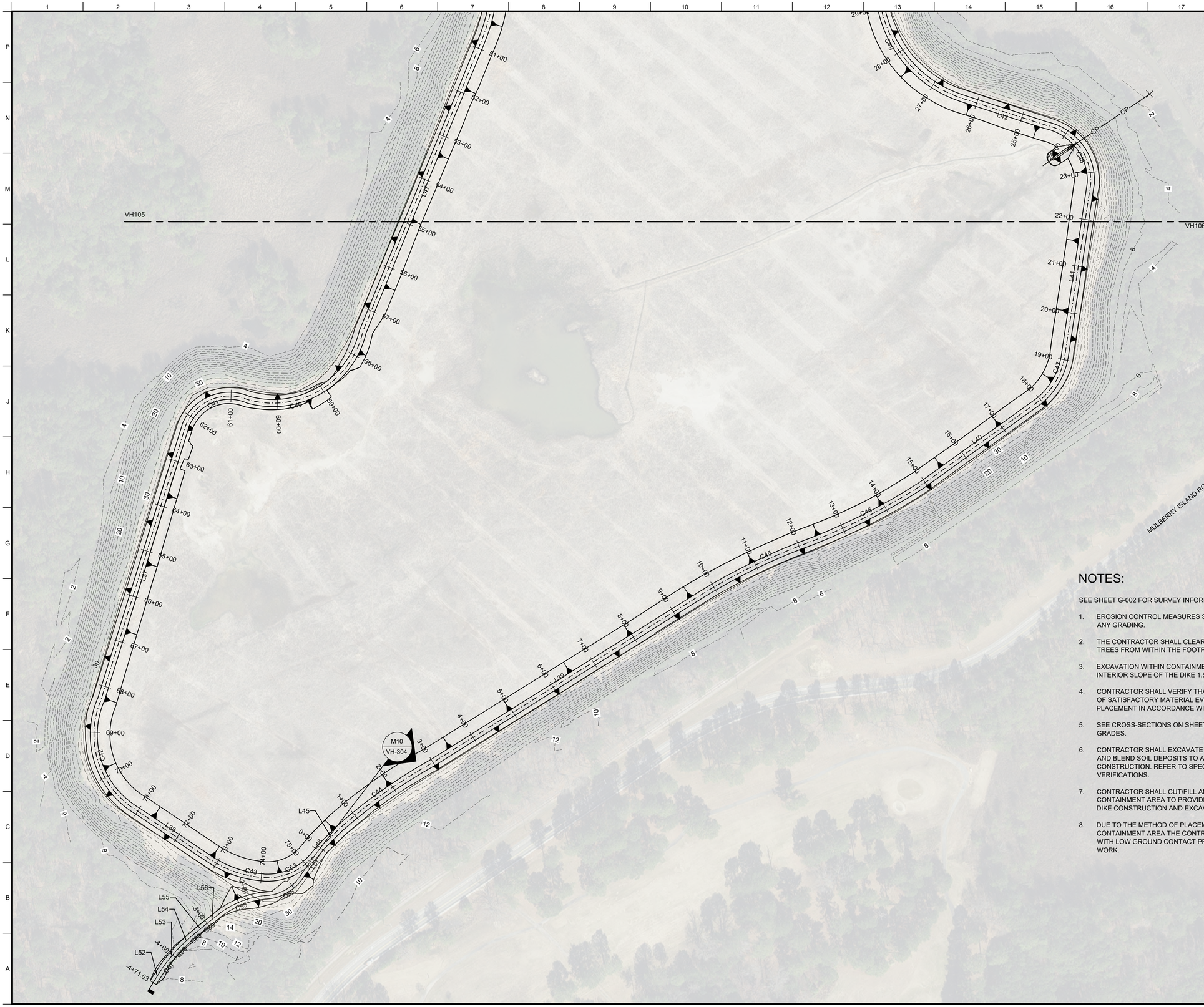

NOTES:

SEE SHEET G-002 FOR SURVEY INFORMATION.

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF ANY GRADING.
2. THE CONTRACTOR SHALL CLEAR ALL PHRAGMITES, VEGETATION, SHRUBS, AND TREES FROM WITHIN THE FOOTPRINT OF THE NEW DIKE.
3. EXCAVATION WITHIN CONTAINMENT AREA SHALL NOT BE STEEPER THAN THE INTERIOR SLOPE OF THE DIKE 1.5:1 (H:V)
4. CONTRACTOR SHALL VERIFY THAT BLENDED SOIL MEETS THE REQUIREMENTS OF SATISFACTORY MATERIAL EVERY 1,000 CY OR FRACTION THEREOF PRIOR TO PLACEMENT IN ACCORDANCE WITH SPEC 31 00 00.
5. SEE CROSS-SECTIONS ON SHEET VH-301, VH-302, VH-303, AND VH-304 FOR FINAL GRADES.
6. CONTRACTOR SHALL EXCAVATE EXISTING MATERIAL WITHIN DISPOSAL FACILITY AND BLEND SOIL DEPOSITS TO ACHIEVE SATISFACTORY MATERIAL FOR DIKE CONSTRUCTION. REFER TO SPECIFICATIONS FOR SOIL REQUIREMENTS AND VERIFICATIONS.
7. CONTRACTOR SHALL CUT/FILL AND REGRADE AS REQUIRED TO WITHIN CONTAINMENT AREA TO PROVIDE PROPER DRAINAGE TO THE SPILLBOX AFTER DIKE CONSTRUCTION AND EXCAVATION OPERATIONS ARE COMPLETE.
8. DUE TO THE METHOD OF PLACEMENT OF DREDGED MATERIAL WITHIN CONTAINMENT AREA THE CONTRACTOR SHOULD EXPECT THAT EQUIPMENT WITH LOW GROUND CONTACT PRESSURE WILL BE REQUIRED TO FACILITATE WORK.

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PROJECT STATUS
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PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DIKE GRADING
PLAN SHEET
(2)

SHEET ID

VH-106

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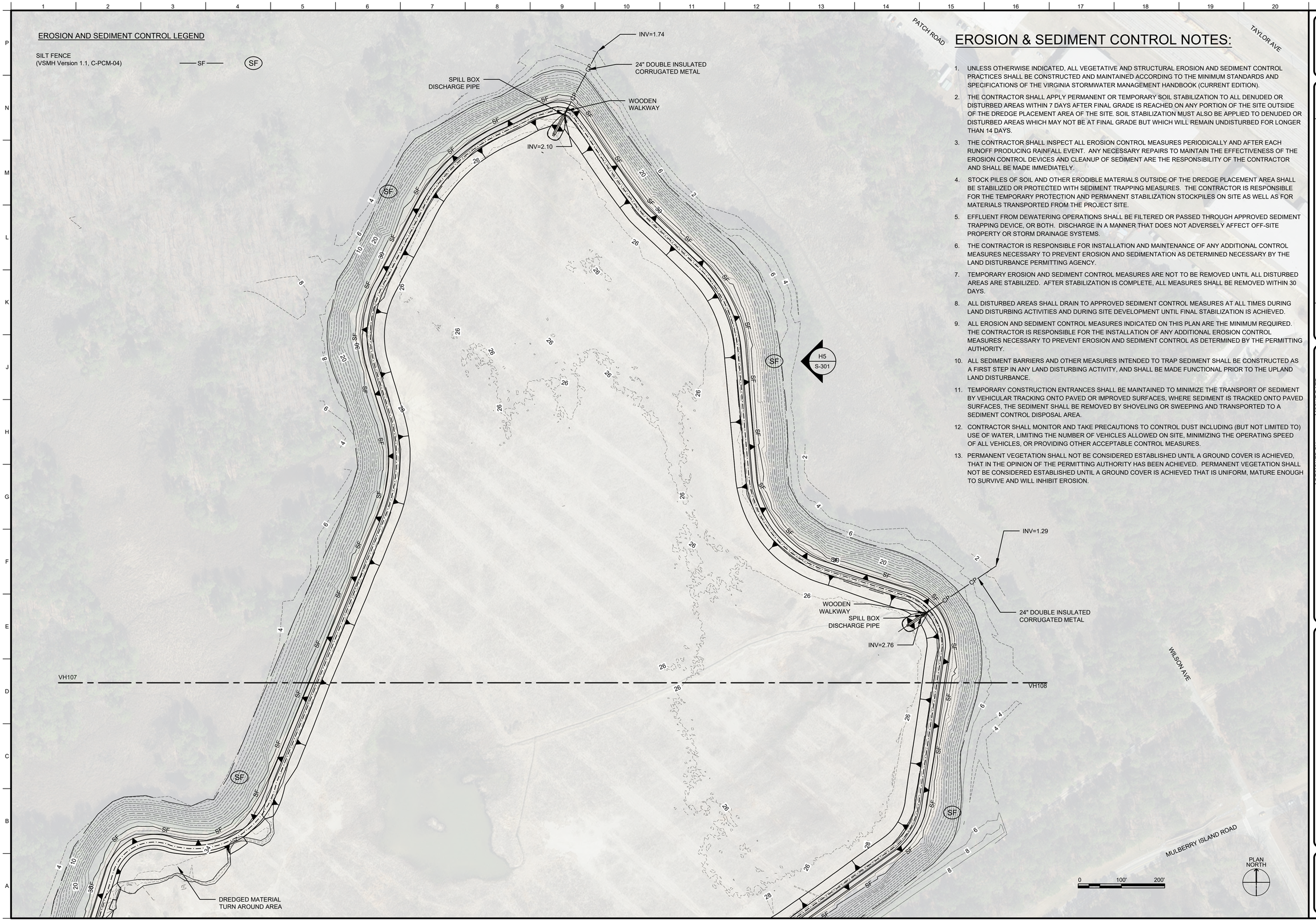
EROSION AND SEDIMENT CONTROL LEGEND

SILT FENCE
(VSMH Version 1.1, C-PCM-04) —— SF ——



EROSION & SEDIMENT CONTROL NOTES:

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK (CURRENT EDITION).
2. THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL DENUDED OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE OUTSIDE OF THE DREDGE PLACEMENT AREA OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DENUDED OR DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 14 DAYS.
3. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
4. STOCK PILES OF SOIL AND OTHER ERODIBLE MATERIALS OUTSIDE OF THE DREDGE PLACEMENT AREA SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.
5. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH. DISCHARGE IN A MANNER THAT DOES NOT ADVERSELY AFFECT OFF-SITE PROPERTY OR STORM DRAINAGE SYSTEMS.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE LAND DISTURBANCE PERMITTING AGENCY.
7. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.
8. ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THIS PLAN ARE THE MINIMUM REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENT CONTROL AS DETERMINED BY THE PERMITTING AUTHORITY.
10. ALL SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY, AND SHALL BE MADE FUNCTIONAL PRIOR TO THE UPLAND LAND DISTURBANCE.
11. TEMPORARY CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO PAVED OR IMPROVED SURFACES, WHERE SEDIMENT IS TRACKED ONTO PAVED SURFACES, THE SEDIMENT SHALL BE REMOVED BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA.
12. CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST INCLUDING (BUT NOT LIMITED TO) USE OF WATER, LIMITING THE NUMBER OF VEHICLES ALLOWED ON SITE, MINIMIZING THE OPERATING SPEED OF ALL VEHICLES, OR PROVIDING OTHER ACCEPTABLE CONTROL MEASURES.
13. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED, THAT IN THE OPINION OF THE PERMITTING AUTHORITY HAS BEEN ACHIEVED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

US Army Corps of Engineers®

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SUBMITTED BY: R. MCELHINNY/M.D.M.
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ISSUE DATE: 2025-12-03
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CONTRACT NO.: XXX
NAO FILE NO.: SKU.2024-08-01.PS

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

EROSION CONTROL
PLAN SHEET
(1)

SHEET ID
VH-107

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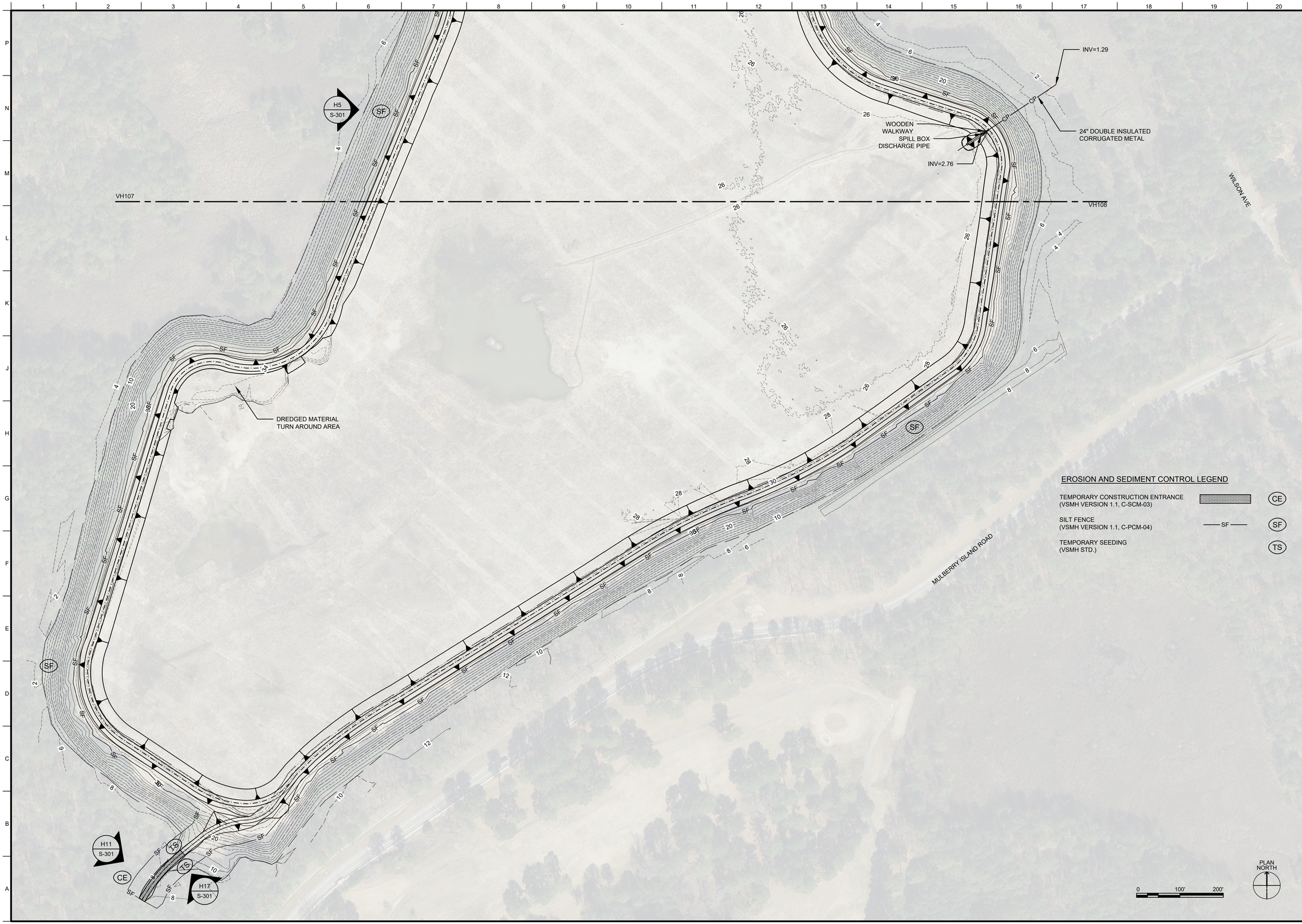

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SCALE:	-
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PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

EROSION CONTROL
PLAN SHEET
(2)

SHEET ID

VH-108

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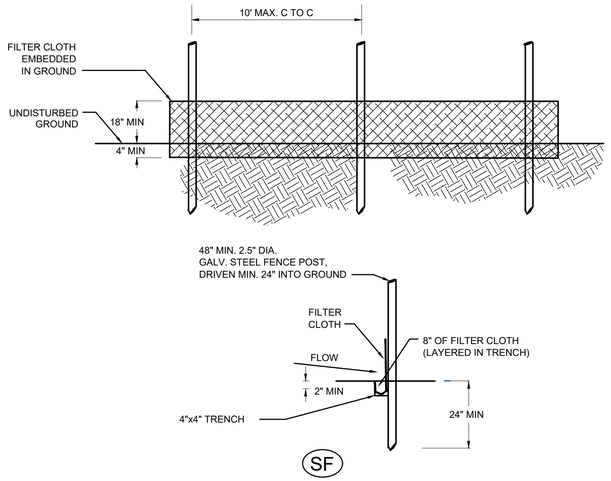
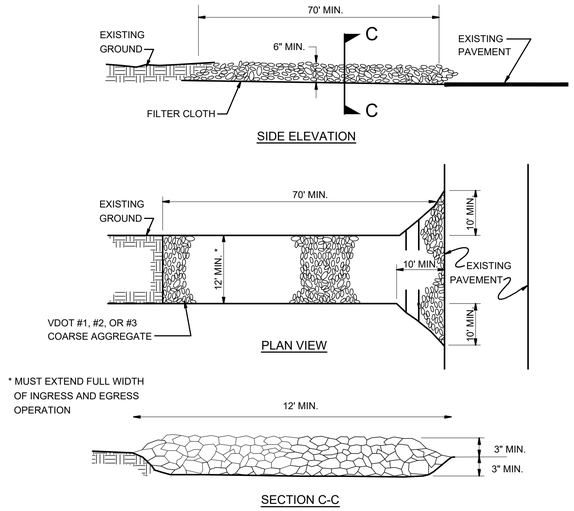


J12 / VH-107 / N6 / VH-108 — H5 — SILT FENCE DETAIL
SCALE: NTS

NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY WITH TIES AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
3. A 4" WIDE BY 4" DEEP TRENCH SHALL BE EXCAVATED UPSLOPE OF SILT FENCE.
4. BURY FILTER CLOTH A MIN. OF 8" IN TRENCH. BACKFILL AND COMPACT TRENCH.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
6. POSTS SHALL BE 4' MIN. STANDARD V OR T SECTION, MIN. WEIGHT= 3 LBS/FOOT.
7. FILTER CLOTH SHALL MEET LATEST VESCR SPECIFICATIONS FOR SILT FENCE.



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A3 / VH-108 — H11 — TEMPORARY STONE CONSTRUCTION ENTRANCE
SCALE: NTS

TABLE 3.31-B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS

SPECIES	SEEDING RATE (LBS./ACRE)
50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50 - 100
ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60 - 100
GERMAN MILLET (SETARIA ITALICA)	50

MULCHING

A. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT DRY SUMMER MONTHS SHALL BE MULCHED IN ACCORDANCE WITH MULCHING, STD. & SPEC. OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK, THIRD EDITION 1992.

MAINTENANCE

A. IRRIGATION - IF SOIL MOISTURE IS DEFICIENT. SUPPLY NEW SEEDINGS AND PLANTINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED.
B. REPAIR - INSPECT ALL AREAS FOR PLANTING FAILURES AND MAKE NECESSARY REPAIRS.

TS

A3 / VH-108 — H17 — TEMPORARY SEEDING SCHEDULE
NOT TO SCALE

US Army Corps of Engineers®

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U.S. ARMY CORPS OF ENGINEERS
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NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

EROSION CONTROL
DETAILS SHEET

SHEET ID
S-301

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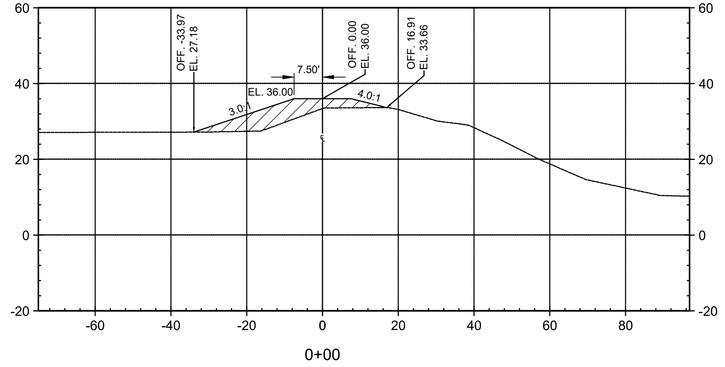

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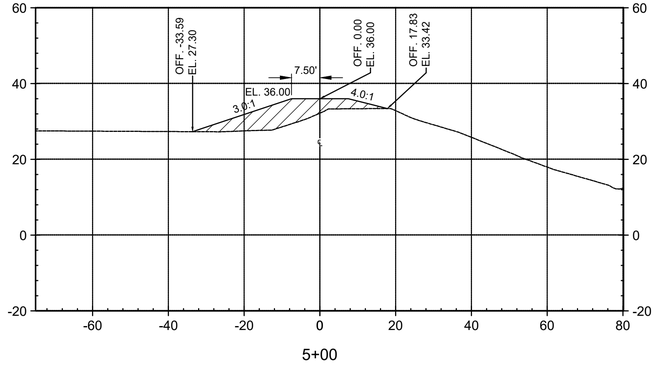

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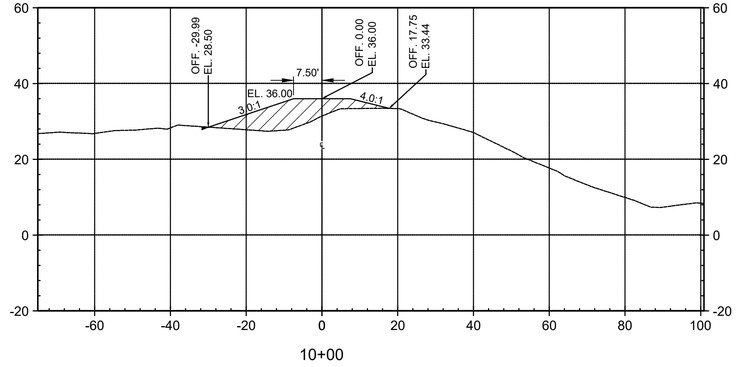

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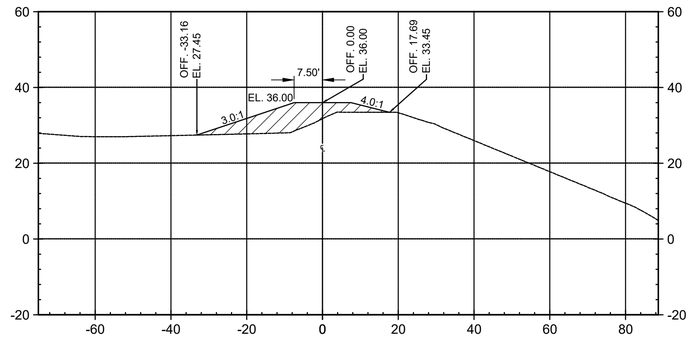

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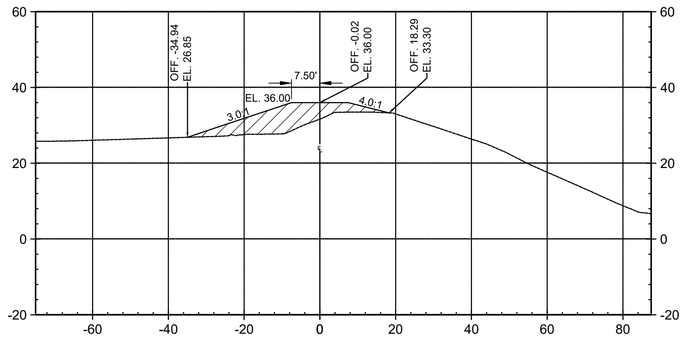

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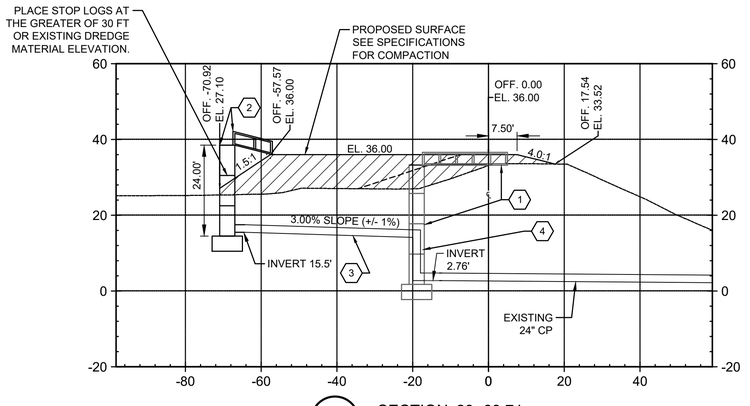
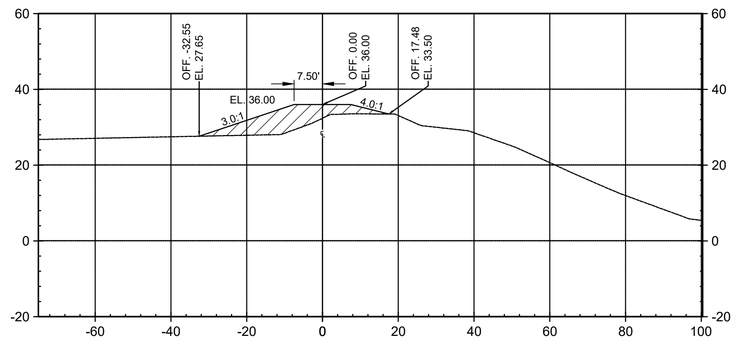


E15
VH-105
J17
SECTION 23+69.71
SCALE: AS SHOWN



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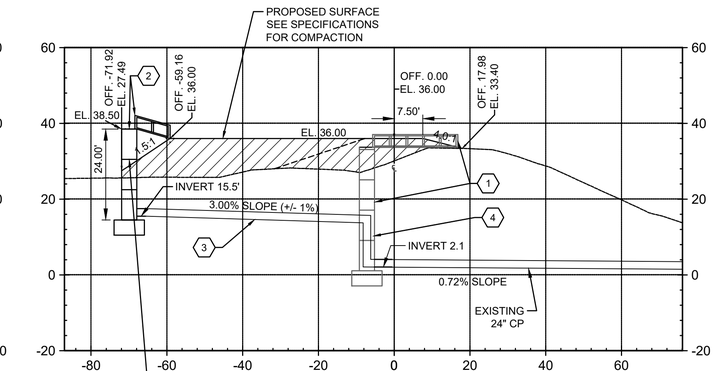

N9
VH-105
E10
SECTION 39+12.59
SCALE: AS SHOWN

SHEET NOTES:

1. REMOVE EXISTING WALKWAY AND HAND RAILING, AND REMOVE EXISTING SPILLBOX ABOVE GRADE.
2. INSTALL NEW SPILLBOX, WALKWAY AND HAND RAILING, SEE STRUCTURAL SHEETS.
3. TAP FROM EXISTING 24" CP INVERT TO NEW SPILLBOX, SEE STRUCTURAL SHEETS. PREPARE BOTTOM FOR PIPE PER THE PROJECT SPECIFICATIONS.
4. FILL ANNULAR SPACE OF EXISTING SPILLBOX WITH FLOWABLE FILL.

LEGEND:

FILL, SUITABLE FILL MATERIAL TO ADD

0 20' 40'

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U.S. ARMY CORPS OF ENGINEERS
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NORFOLK, VA 23510

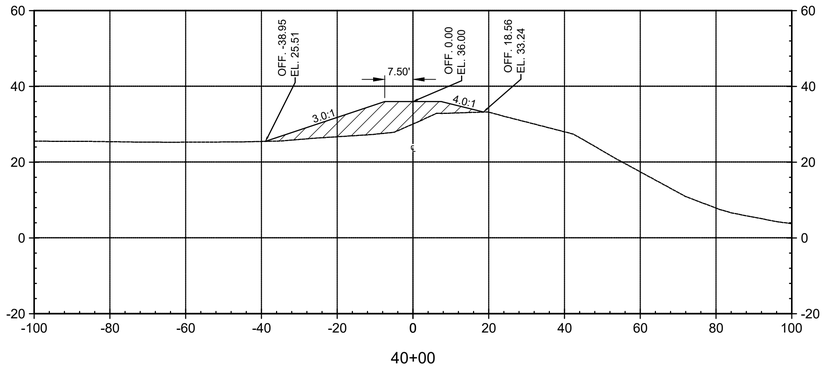
PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DIKE CAUSEWAY
AND SPILLBOX SECTIONS
SHEET (1)

SHEET ID

VH-301



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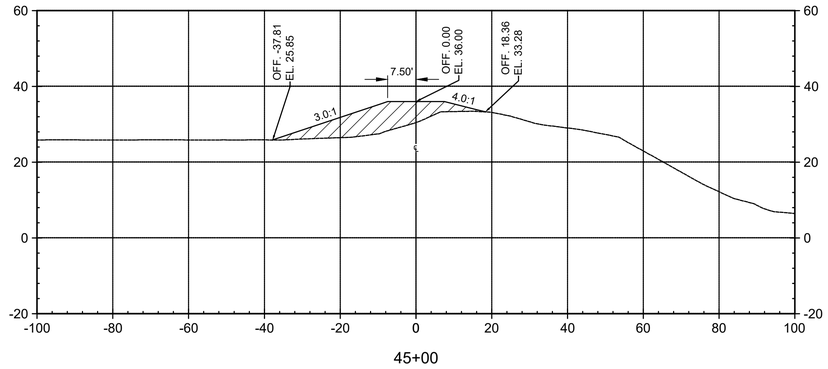

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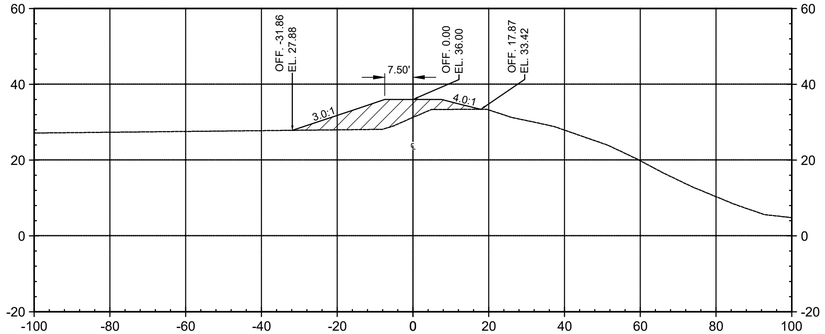

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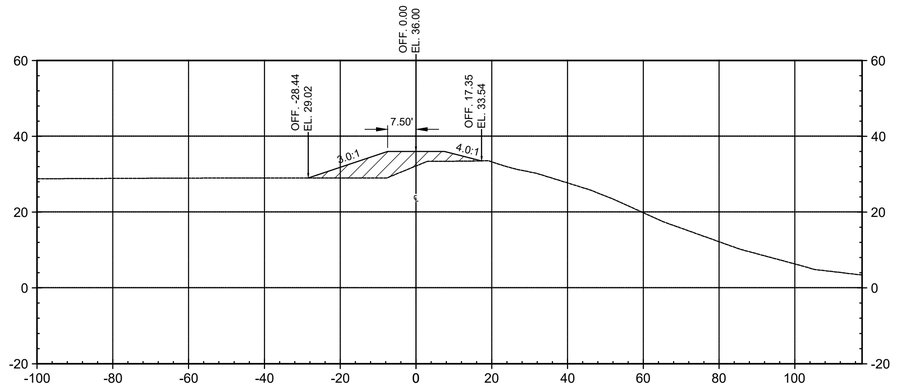

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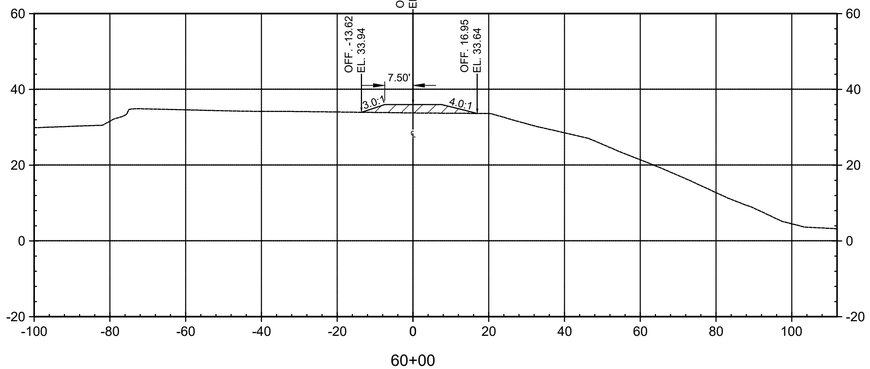

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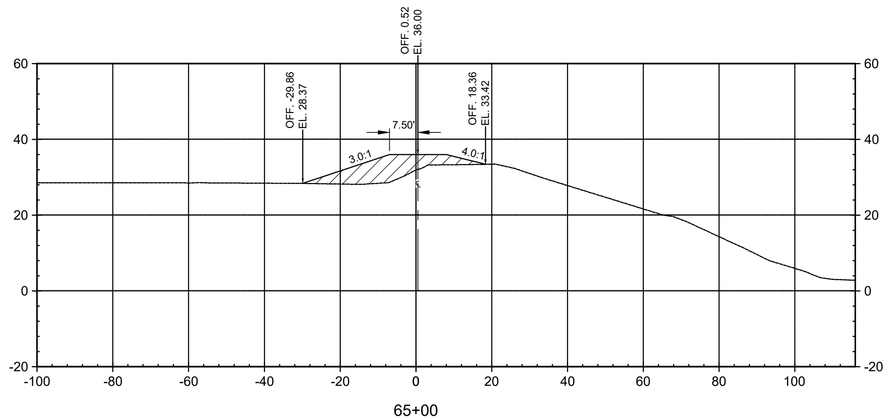

65+00

0 20' 40'

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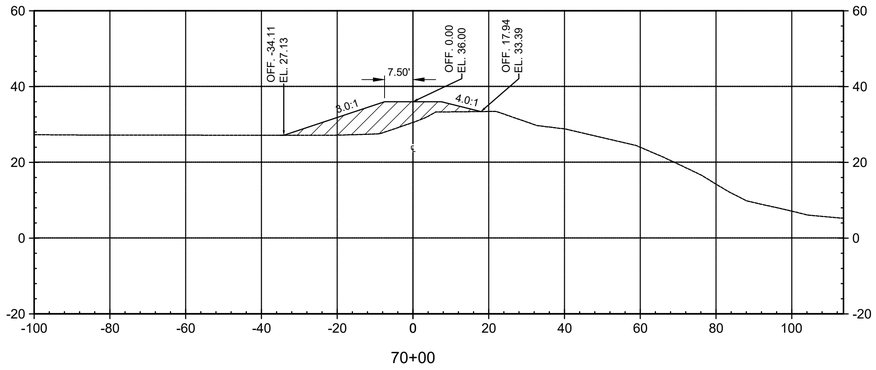
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

DIKE CAUSEWAY AND SPILLBOX SECTIONS
SHEET (2)

SHEET ID

VH-302



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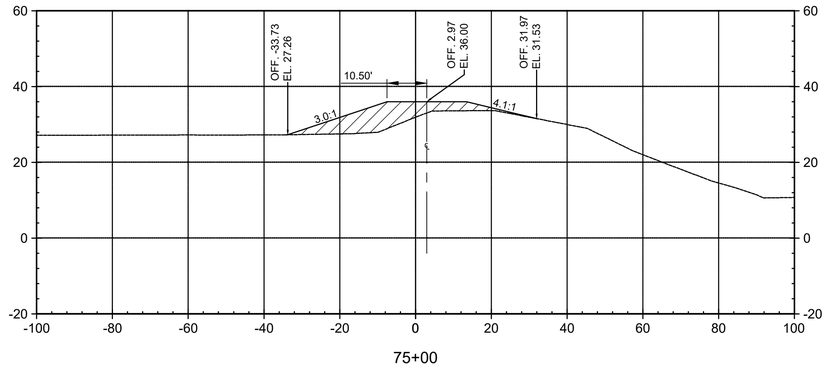


75+00

TOTAL VOLUME: CUBIC YARDS

STATION	CUT AREA	FILL AREA	CUT VOL	FILL VOL	CUMULATIVE CUT VOL	CUMULATIVE FILL VOL	NET VOL
0+00.00	0.00	157.28	0.00	0.00	0.00	0.00	0.00
5+00.00	0.00	179.79	0.00	3140.42	0.00	3140.42	-3140.42
10+00.00	0.63	183.38	5.88	3364.42	5.88	6504.84	-6498.96
15+00.00	0.00	181.20	5.84	3370.49	11.72	9875.34	-9863.62
20+00.00	0.00	189.04	0.00	3377.87	11.72	13253.21	-13241.49
23+69.71	0.00	580.27	0.00	4919.24	11.72	18172.45	-18160.73
30+00.00	0.00	167.81	0.01	8982.08	11.73	27154.53	-27142.80
39+12.59	0.00	635.97	0.01	13117.04	11.74	40271.57	-40259.83
40+00.00	0.00	239.40	0.00	1058.50	11.74	41330.07	-41318.33
45+00.00	0.00	227.27	0.00	4268.37	11.74	45598.44	-45586.70
50+00.00	0.00	181.12	0.00	3759.07	11.74	49357.51	-49345.76
55+00.00	0.00	147.10	0.00	3049.44	11.74	52406.94	-52395.20
60+00.00	0.00	50.73	0.00	1851.67	11.74	54258.61	-54246.87
65+00.00	0.00	168.72	0.00	2005.58	11.74	56264.19	-56252.45
70+00.00	0.00	209.34	0.00	3454.80	11.74	59719.00	-59707.25
75+00.00	0.00	198.88	0.02	3673.34	11.76	63392.33	-63380.57

0 20' 40'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MCELHINNY/M.D.M.
DRAWN BY: A. TIERNEY/J. WILLIAMS
CHECKED BY: M. LOPEZ RIVERA
SUBMITTED BY: R. MCELHINNY/M.D.M.
SIZE: ANSI D
ISSUE DATE: 2025-12-03
SOLICITATION NO.: XXX
CONTRACT NO.: XXX
NAO FILE NO.: SKO.2024-08-01.PS
-

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

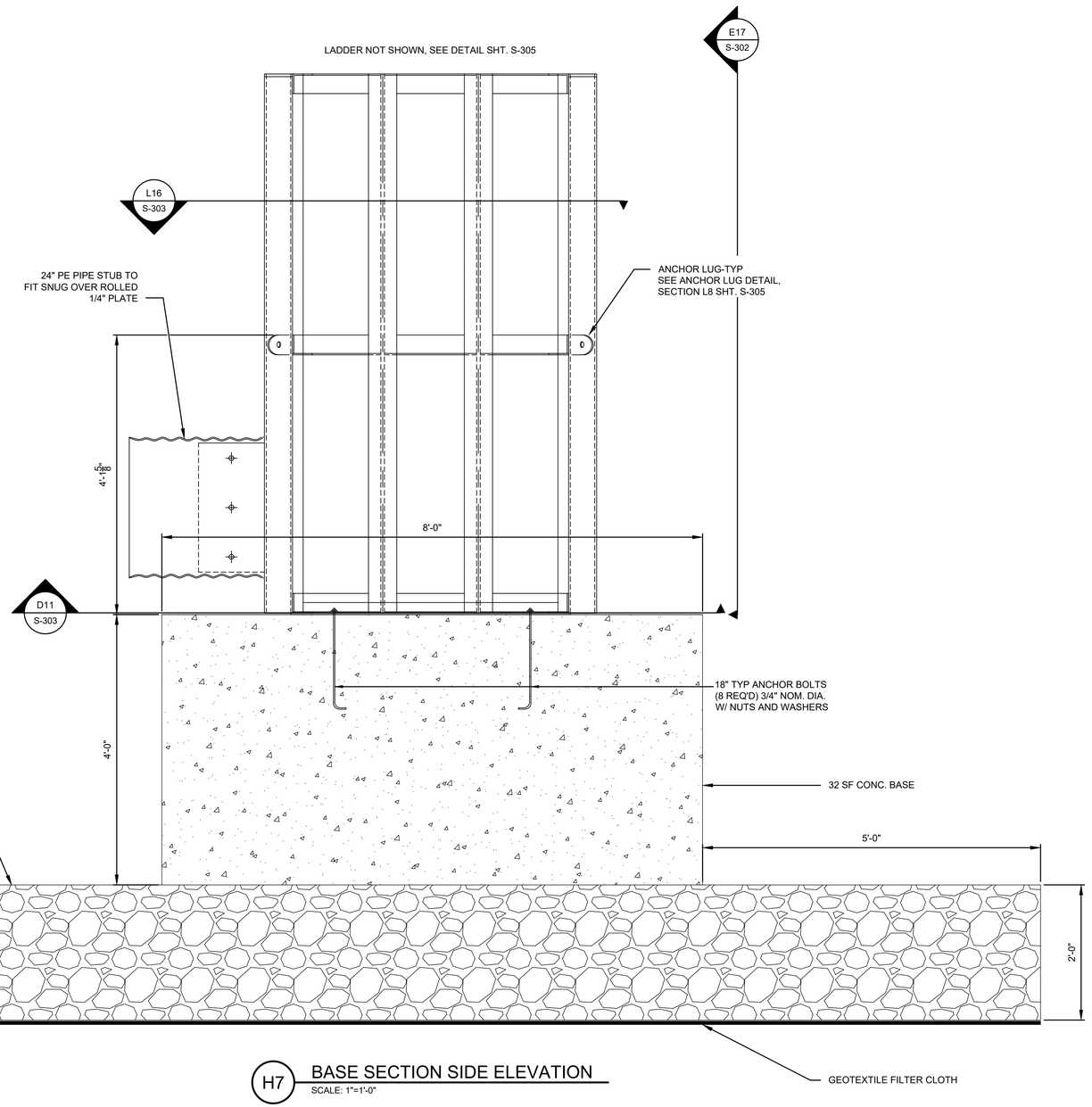
PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

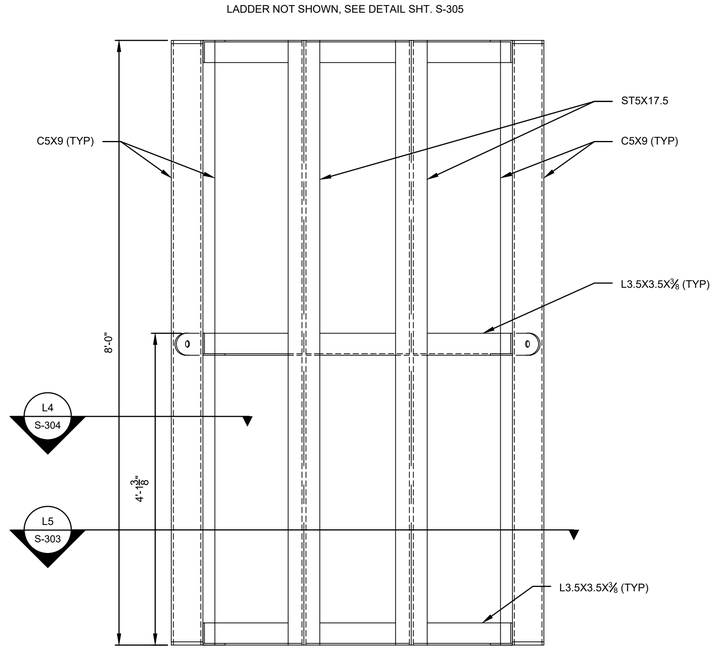
DIKE CAUSEWAY AND SPILLBOX SECTIONS
SHEET (3)

SHEET ID

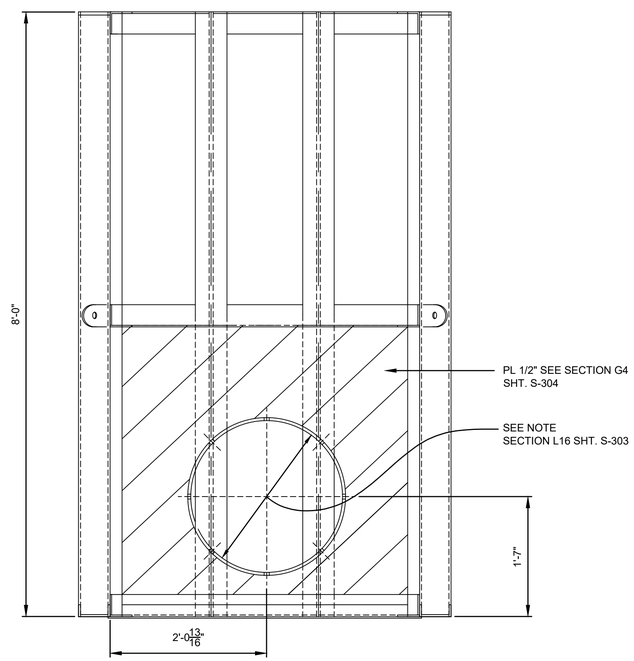
VH-303



H7 BASE SECTION SIDE ELEVATION
SCALE: 1"=1'-0"



L17 8FT. UPPER SECTIONS (3 REQ'D) ELEVATION
SCALE: 1"=1'-0"



K10 S-302 E17 SECTION
SCALE: 1"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: Z.T.W. | ISSUE DATE:
R. MCELHINNY/M.D.M. | 2025-12-03
DRAWN BY: C.P.O. | SOLICITATION NO.:
A. TIERNEY/J. WILLIAMS | XXX
CHECKED BY: | CONTRACT NO.:
M. LOPEZ RIVERA | XXX
SUBMITTED BY: | NAO FILE NO.:
R. MCELHINNY/M.D.M. | SKU_2024-08-01.PS
APPR'D BY: | -
ANSI D

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

SPILLBOX DETAILS
SHEET (1)

SHEET ID
S-302

T:\P\FEDMMA\SKU 2024-08-01.PS_2\SKU 2024-08-01.PS-65_2\SKU 2024-08-01.PS.DWG
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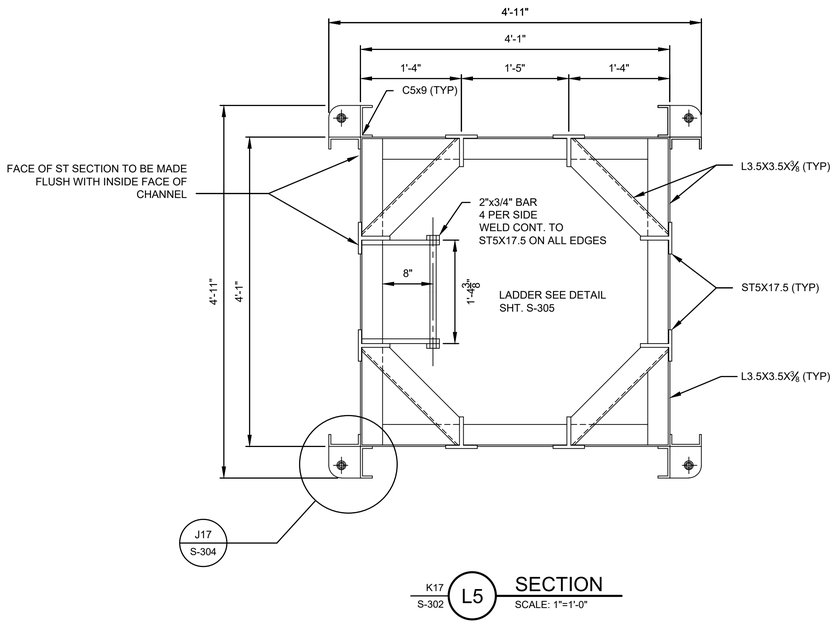
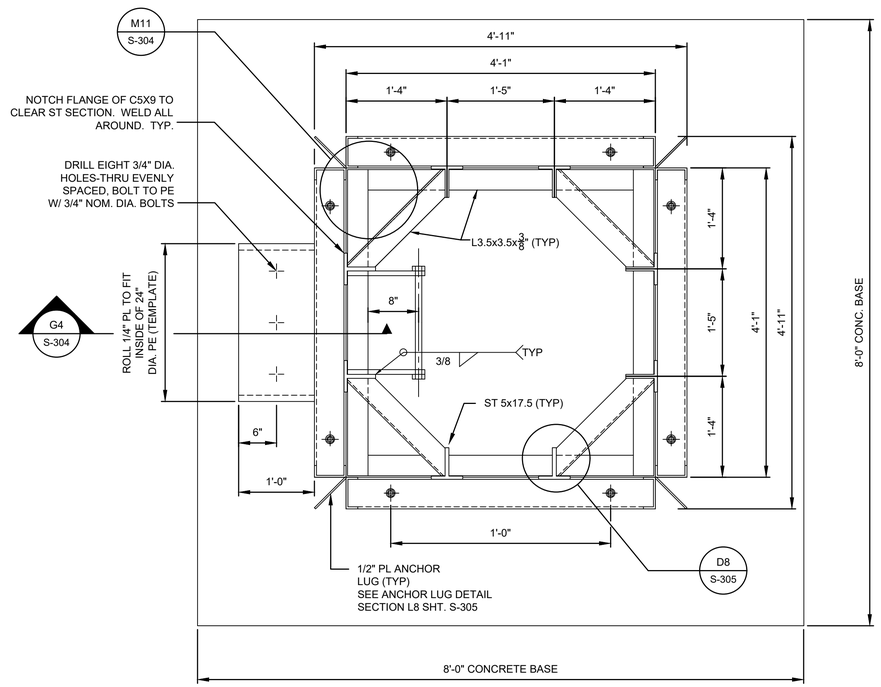
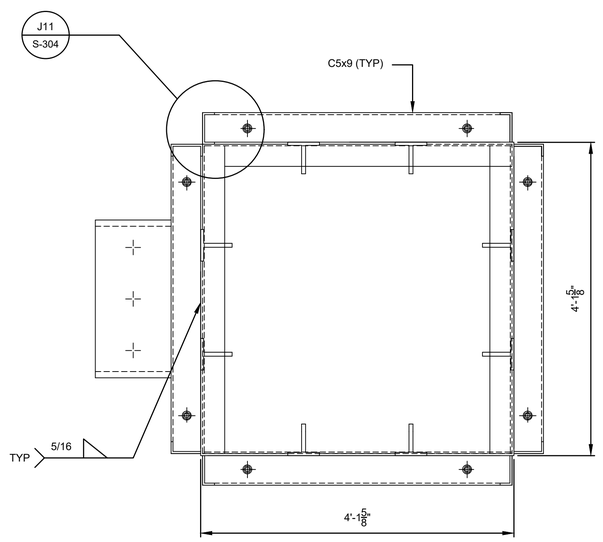


K17 / S-302 — L5 — SECTION
SCALE: 1"=1'-0"



L7 / S-302 — L16 — SECTION
SCALE: 1"=1'-0"



G7 / S-302 — D11 — SECTION
SCALE: 1"=1'-0"

MARK	DESCRIPTION	DATE

DESIGNED BY: Z.T.W.
R. MCELHINNY/M.D.M.
DRAWN BY: C.P.O.
A. TIERNEY/J. WILLIAMS
CHECKED BY:
M. LOPEZ RIVERA
SUBMITTED BY:
R. MCELHINNY/M.D.M.
SIZE:
ANSI D

ISSUE DATE:
2025-12-03
SOLICITATION NO.:
XXX
CONTRACT NO.:
XXX
NAO FILE NO.:
SKU_2024-08-01.PS
-

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

SPILLBOX DETAILS
SHEET (2)

SHEET ID
S-303

T:\P\FEDMMA\SKU\2024-08-01.PS_2\SKU_2024-08-01.PS-65_2\SKU_2024-08-01.PS.DWG
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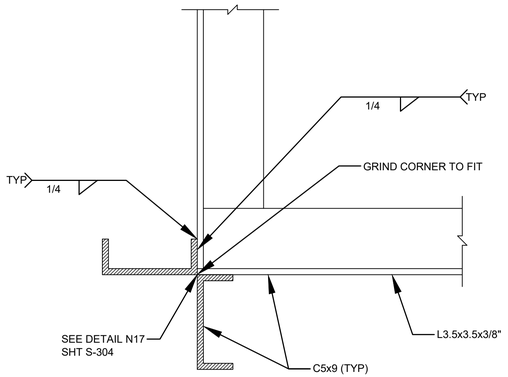
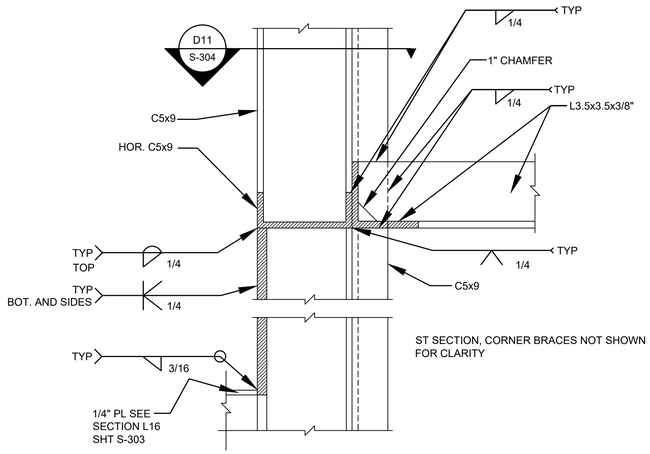
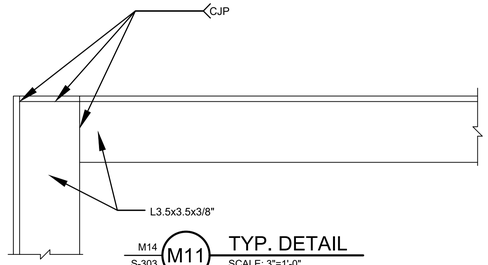


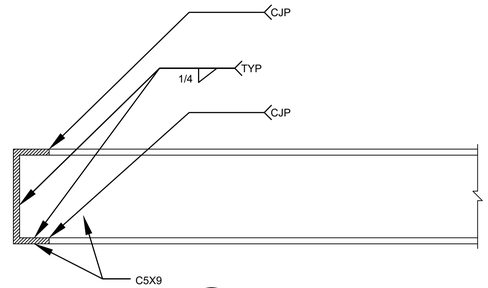
L15 / S-302 — L4 — SECTION
SCALE: 3"=1'-0"



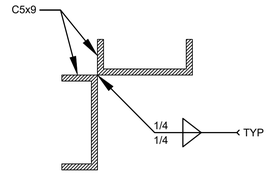
L14 / S-303 — G4 — SECTION
SCALE: 3"=1'-0"



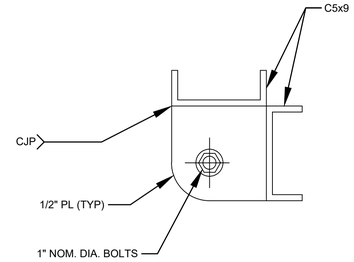
M14 / S-303 — M11 — TYP. DETAIL
SCALE: 3"=1'-0"



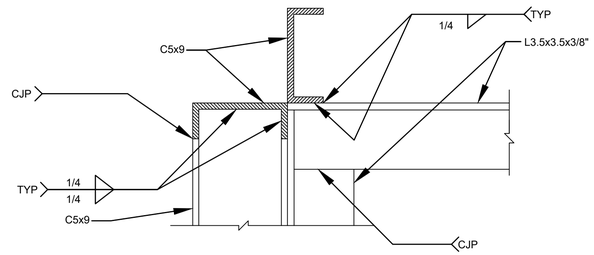
E9 / S-303 — J11 — TYP. DETAIL
SCALE: 3"=1'-0"



N17 — TYP. DETAIL
SCALE: 3"=1'-0"



K4 / S-303 — J17 — TYP. DETAIL
SCALE: 3"=1'-0"



H4 / S-304 — D11 — SECTION
SCALE: 3"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: Z.T.W.
R. MCELHINNY/M.D.M.
DRAWN BY: C.P.O.
A. TIERNEY/J. WILLIAMS
CHECKED BY:
M. LOPEZ RIVERA
SUBMITTED BY:
R. MCELHINNY/M.D.M.
SIZE:
ANSI D

ISSUE DATE:
2025-12-03
SOLICITATION NO.:
XXX
CONTRACT NO.:
XXX
NAO FILE NO.:
SKU.2024-08-01.PS
-

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL
MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

—
SPILLBOX DETAILS
SHEET (3)

SHEET ID
S-304

T:\P\FEDMMA\SKU.2024-08-01.PS_2\SKU.2024-08-01.PS-65_2\SKU.2024-08-01.PS.DWG
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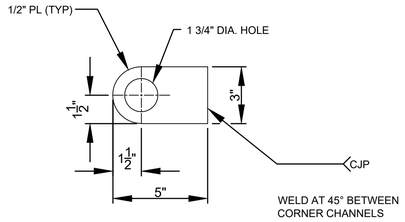
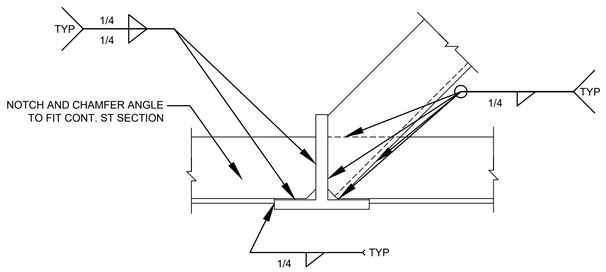
2:53:51 PM 3/26/2026
E4TONJKW



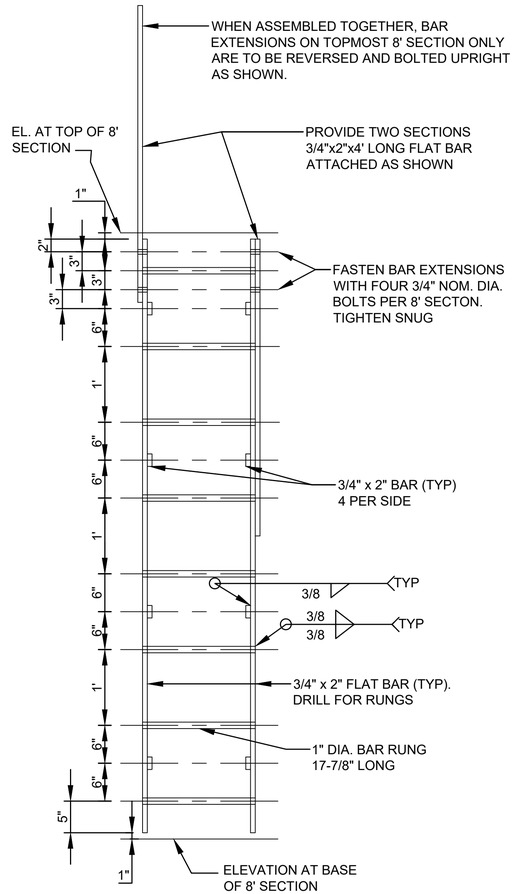
L8 ANCHOR LUG DETAIL
SCALE: 3"=1'-0"

NOTES:

1. STRUCTURAL STEEL SHALL BE A36
2. ANCHOR BOLTS, BOLTS, NUTS, ETC SHALL BE GALVANIZED A307 STEEL, UON.
3. WELDING SHALL BE IN ACCORDANCE WITH AASHTO AND AWS D1.1. WELDERS SHALL BE CERTIFIED AND SUBMITTED FOR GOV APPROVAL UNDER AWS D1.1.
4. WELDS SHALL BE A CONTINUOUS FILLET WELD 1/16" LESS THAN THE THICKNESS OF THE BASE MATERIAL, UON.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 4000 PSI WITH A W/C RATIO OF 0.40.
6. ALL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.
7. WOOD STOP LOGS SHALL BE NOMINAL 4X4, MINIMUM #2 CONSTR. GRADE SOUTHERN PINE TIMBERS.
8. PLACE STOP LOGS AT THE GREATER OF 30 FT OR EXISTING DREDGE MATERIAL ELEVATION.
9. UPPER SECTIONS ARE TO BE FASTENED TO LOWER SECTIONS SECURELY USING 1" NOM. DIA. BOLTS AT CONNECTION PLATES PROVIDED.



K16 / S-303 D8 TYP. DETAIL
SCALE: 3"=1'-0"



F14 LADDER DETAIL
SCALE: 1"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: Z.T.W. / R. MCELHINNY/M.D.M.
DRAWN BY: C.P.O. / A. TIERNEY/J. WILLIAMS
CHECKED BY: M. LOPEZ RIVERA
SUBMITTED BY: R. MCELHINNY/M.D.M.
SIZE: ANSI D
ISSUE DATE: 2025-12-03
SOLICITATION NO.: XXX
CONTRACT NO.: XXX
NAO FILE NO.: SKU.2024-08-01.PS

U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

SPILLBOX DETAILS
SHEET (4)

SHEET ID
S-305

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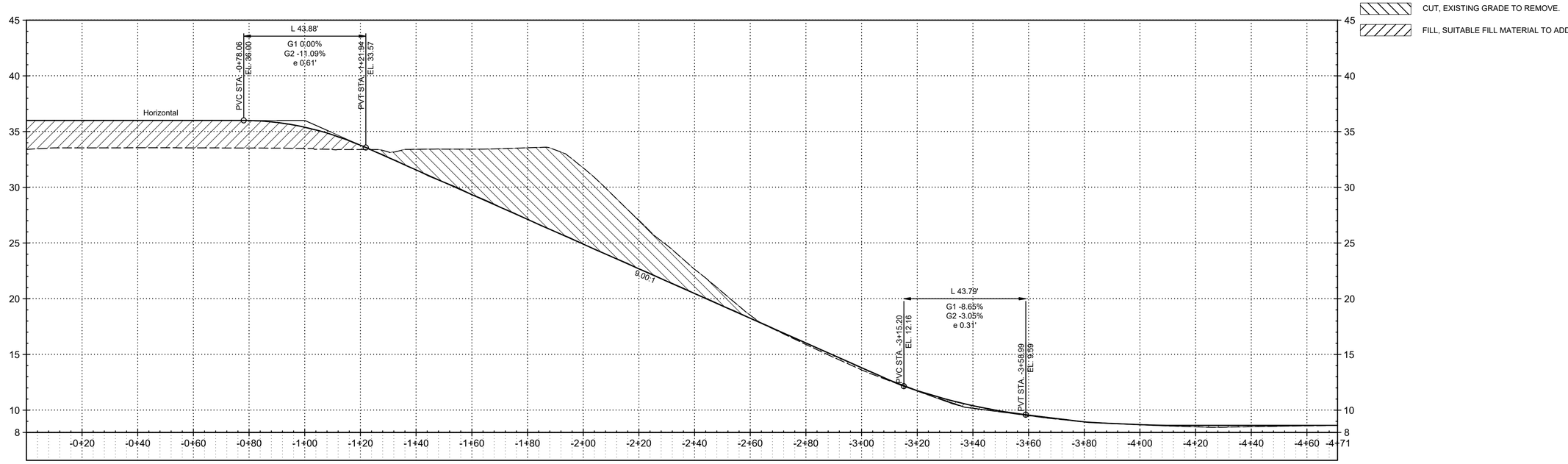

B3 / VH-106 — M10 **ACCESS ROAD PROFILE**

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 20' 40'

ACCESS ROAD SECTIONS

VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 20' 40'

TOTAL VOLUME: CUBIC YARDS

STATION	CUT AREA	FILL AREA	CUT VOL	FILL VOL	CUMULATIVE CUT VOL	CUMULATIVE FILL VOL	NET VOL
-0+50.00	0.00	192.72	0.00	0.00	0.00	0.00	0.00
-1+00.00	1.03	163.74	1.06	310.76	1.06	310.76	-309.71
-1+50.00	54.47	108.59	54.31	208.92	55.37	519.68	-464.32
-2+00.00	210.36	0.44	246.37	107.06	301.74	626.75	-325.01
-2+50.00	28.13	0.00	224.48	0.36	526.23	627.11	-100.88
-3+00.00	0.08	3.56	26.20	3.26	552.42	630.37	-77.95
-3+50.00	1.02	2.28	1.02	5.37	553.44	635.74	-82.30
-4+00.00	0.25	1.43	1.18	3.42	554.62	639.16	-84.54
-4+50.00	0.00	3.64	0.23	4.72	554.85	643.88	-89.03
-4+71.03	0.10	0.29	0.04	1.53	554.89	645.41	-90.52

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MCELHINNY/M.D.M.
DRAWN BY: A. TIERNEY/J. WILLIAMS
CHECKED BY: M. LOPEZ-RIVERA
SUBMITTED BY: R. MCELHINNY/M.D.M.
SIZE: ANSI D
ISSUE DATE: 2025-12-03
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U.S. ARMY CORPS OF ENGINEERS
NORFOLK DISTRICT
803 FRONT STREET
NORFOLK, VA 23510

PROJECT STATUS
FINAL

FORT EUSTIS DREDGE MATERIAL MANAGEMENT AREA (FEDMMA)
PLANS FOR DIKE REHABILITATION
FORT EUSTIS, NEWPORT NEWS VIRGINIA

ACCESS ROAD
SECTIONS AND PROFILE
SHEET

SHEET ID

VH-304