US Army Corps
of Engineers ®
Seattle District

PL 84-99 LEVEE REHABILITATION DESIMONE-BRISCOE SCHOOL, GREEN RIVER

TUKWILA, WASHINGTON

65% DRAFT

DRAWING INDEX

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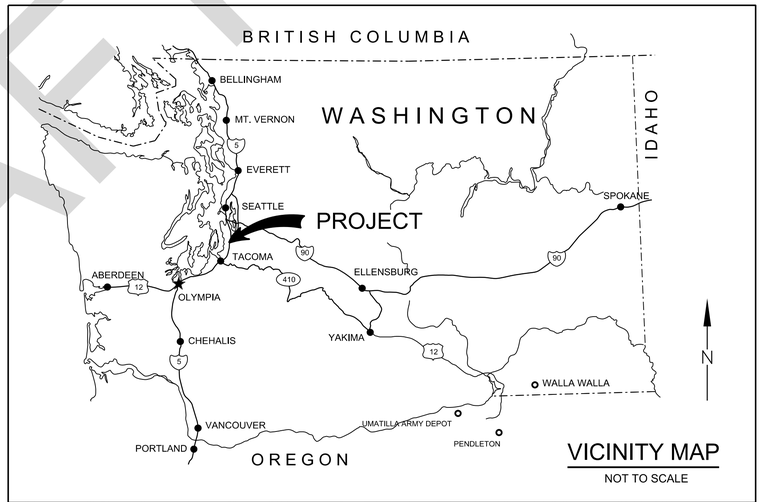
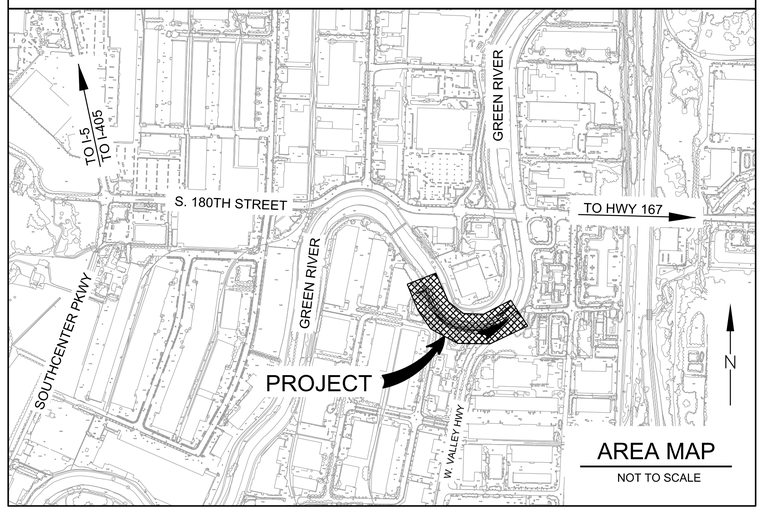


VICINITY MAP
NOT TO SCALE



AREA MAP
NOT TO SCALE

FY14 GRN-01-14

SAFETY FIRST

IF SHEET MEASURES LESS THAN 22" X 34" IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

US Army Corps of Engineers ® Seattle District

Date: 31 MAR 2014

File No.: E-51-4-69

Submitted by: LEAH WICKSTROM, Project Manager, 12/2014 Date

Reviewed by: L FORD, Tech Review, 12/2014 Date

U.S. ARMY CORPS OF ENGINEERS, SEATTLE DISTRICT, SEATTLE, WASHINGTON

Prepared by: M PEELE, Civil Section, 12/2014 Date

DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION, TUKWILA, WASHINGTON

LEGEND, ABBREVIATIONS, NOTES, AND DRAWING INDEX

SHEET IDENTIFICATION G-001

SHEET 1 OF 8

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\General\PN448192_GRDL-G-001CVR.dgn

DATE AND TIME PLOTTED: 12/22/2014

CIVIL NOTES

LINETYPES

20	EXISTING CONTOURS
20	PROPOSED CONTOURS
	CONSTRUCTION LIMITS

LEGEND

	CONCRETE PAVEMENT
	CUT/FILL ARROW
EL 18.2	EXISTING SPOT ELEVATION
EL 21.00	PROPOSED SPOT ELEVATION
	TREE

DRAFTING

	DIRECTION OF VIEW
X / C-304	LETTER INDICATES CIVIL SECTION NUMBER INDICATES ELEV OR DETAIL
	PLATE NUMBER WHERE SECTION/DETAIL IS DRAWN
X / C-502	NUMBER INDICATES DETAIL NO.
	PLATE NUMBER WHERE DETAIL IS DRAWN
N	NORTH ARROW
0 20 40	GRAPHIC SCALE (FEET)

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE CORPS OF ENGINEERS OF ANY DISCREPANCIES WITH RESPECT TO THE PLANS.

2. BEFORE EXCAVATION OR TRENCHING, CONTRACTOR SHALL SUBMIT A UTILITY LOCATE REQUEST (CALL BEFORE YOU DIG) THROUGH THE STATE OF WASHINGTON UTILITY NOTIFICATION CENTER IN ACCORDANCE WITH STATE OF WASHINGTON LAW: CHAPTER 19.122 RCW – UNDERGROUND UTILITIES. NO EXCAVATION MAY BEGIN UNTIL THE TIME STATED ON THE LOCATE TICKET. THE ONE-CALL PHONE NUMBER FOR UTILITY LOCATES IS: 1-800-424-5555.

3. ANY DAMAGE TO EXISTING SUBSURFACE OR SURFACE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

4. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AND IMPROVEMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES AND IMPROVEMENTS PRIOR TO EXCAVATION TO AVOID DAMAGE. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PRESERVING THE INTEGRITY OF EXISTING SITE UTILITIES DURING CONSTRUCTION.

5. ALL DISTANCES SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE INTERPRETED TO REFER TO HORIZONTALLY AND VERTICALLY PROJECTED PLANES UNLESS OTHERWISE NOTED.

6. SITE ACCESS DURING CONSTRUCTION IS LIMITED TO STABILIZED CONSTRUCTION ENTRANCES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL RESTORATION OF ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE INDICATED BY THE CONSTRUCTION DOCUMENTS.

UTILITIES CONTACT INFORMATION

COMPANY	PHONE
CALL-BEFORE-YOU-DIG	(800) 424-5555
PUGET SOUND ENERGY	(425) 392-6412

ABBREVIATIONS

APPROX.	APPROXIMATE
CONC	CONCRETE
COR	USACE CONTRACTING OFFICER REPRESENTATIVE
DIAM., DIA	DIAMETER
E	EAST
EL, ELEV	ELEVATION
EMB	EMBANKMENT
EO	EDGE OF
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EP	EDGE OF PAVEMENT
EXC	EXCAVATION
EXIST, EX	EXISTING
FIG	FIGURE
FT	FEET/FOOT
H, HORIZ	HORIZONTAL
IN	INCH/INCHES
L	LENGTH
LF	LINEAL FOOT/FEET
LT	LEFT
MAX.	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
N	NORTH
NTS	NOT TO SCALE
OC, O.C.	ON CENTER
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REQD	REQUIRED
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TYP	TYPICAL
VAR	VARIES
V, VERT	VERTICAL
W/	WITH
W.S.	WATER SURFACE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

LEVEE CONSTRUCTION NOTES

(1) PRELIMINARY CLEARING AND GRUBBING, STAGING AREAS AND CONSRUCTION ACCESS RAMP

1. ESTABLISH CONSTRUCTION STAGING AREAS, AS SHOWN ON PLANS.

2. INSTALL TEMPORARY EROSION CONTROL MEASURES FOR PHASES OF WORK TO BE CONDUCTED. WORKING AS CONSTRUCTION ADVANCES, CONTINUE TO INSTALL SILT FENCING ALONG FULL LENGTH OF DISTURBED AREAS OF THE PROJECT SITE. INSTALL EROSION CONTROL MEASURES AS NEEDED TO PREVENT THE DISCHARGE OR ACCUMULATION OF SEDIMENT INTO THE RIVER, ADJACENT SWALES, CATCH BASINS AND STORM DRAINS AND OFF-SITE. ACCUMULATION OF SEDIMENT IN ADJACENT SWALES OR STORM DRAINS WILL BE MONITORED DAILY AND CLEANED TO ENSURE CONTINUED SERVICE THROUGHTOUT CONSTRUCTION.

3. CLEAR AND GRUB PROJECT SITE AND AREAS IN VICINITY OF CONSTRUCTION ACCESS RAMP, INCLUDING REMOVAL OF EXISTING TREES NEEDED TO FACILITATE ACCESS RAMP CONSTRUCTION. DISPOSE OF VEGETATION AND OTHER UNSUITABLE MATERIALS IN AN APPROVED AND PERMITTED OFFSITE LOCATION.

(2) RESTORATION, TRAIL RESURFACING, AND TEMPORARY CONSTRUCTION WORK AREAS.

1. CONSTRUCT ASPHALT PAVED TRAIL ALONG TOP OF LEVEE AND RESTORE ASPHALT ON ALL DISTURBED AREAS, INCLUDING TEMPORARY CONSTRUCTION WORK AREAS.

2. HYDROSEED ALL DISTURBED SITE AREAS.

3. RESTORE TEMPORARY WORK AREAS TO PRE-CONSTRUCTION CONDITION. REPLACE ANY DAMAGED CURBS, PAINT STRIPES, ETC. IN KIND.

4. RESTORE ACCESS ROAD CONDITIONS AND FEATURES (FENCING, GATES, ETC...) TO PRE-CONSTRUCTION CONDITIONS.

GENERAL CONSTRUCTION NOTES

1. ALL IN-WATER PROJECT WORK SHALL BE COMPLETED DURING THE FISH WINDOW: AUGUST 1 - AUGUST 31.

2. THE LIMITS OF THE STAGING AREA WILL BE DELINEATED IN THE FIELD BEFORE THE START OF CONSTRUCTION. FOLLOWING CONSTRUCTION, CONSTRUCTION MATERIALS WILL BE REMOVED AND ANY DISTURBED BARE SOIL IN ANY UNPAVED PORTION OF THE STAGING AREA WILL BE HYDROSEEDED.

3. HEAVY EQUIPMENT WILL OPERATE EITHER FROM THE TOP OF BANK OR FROM A MID-SLOPE BENCH WELL ABOVE THE WATERLINE. THE EXCAVATOR BUCKET WILL ENTER THE WATER ONLY TO EXCAVATE MATERIAL TO ALLOW PLACEMENT OF ROCK.

4. ALL GAS AND OIL CONTAINERS FOR SMALL EQUIPMENT SHALL BE SAFELY AND SECURELY STORED IN UTILITY VEHICLES.

EROSION CONTROL AND VEGETATION NOTES

1. VEGETATION TO BE PRESERVED AND CLEARING LIMITS WILL BE FLAGGED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION BY THE PROJECT ENGINEER OR THE PROJECT ECOLOGIST.

2. EROSION CONTROL HYDROSEED MIX WILL BE USED TO ESTABLISH INITIAL GROUND COVER ON ALL DISTURBED AREAS, USING WASHINGTON STATE DEPARTMENT OF TRANSPORTATION HYDROSEED MIX.

SURVEY/DATUM

MAPPING COMPILED BY CITY OF KENT ON JUNE 9, 2011.

VERTICAL DATUM: NAVD '88 HORIZONTAL DATUM: NAD 83/91

CITY OF KENT BENCHMARK NO. 850, BENCHMARK ELEVATION: 31.824

BENCHMARK DESCRIPTION: SET MAG NAIL WITH 1-1/2" CITY OF KENT ALUMINUM WASHER IN ASPHALT ON WEST SIDE OF WEST VALLEY HIGHWAY AT NORTHWEST CORNER OF DRIVEWAY APRON AT ENTRANCE TO BIKE TRAIL AT NORTH END OF RIVERPOINT CORPORATE CENTER, AT TODD BLVD. AND WEST VALLEY HIGHWAY.

CITY OF KENT BENCHMARK NO. 851, BENCHMARK ELEVATION: 33.496

BENCHMARK DESCRIPTION: SET MAG NAIL WITH 1-1/2" CITY OF KENT ALUMINUM WASHER IN BIKE TRAIL ON EAST SIDE OF GREEN RIVER IN BRISCOE PARK, BEHIND BUILDING NO. 6020 IN CUL-DE-SAC AT INTERSECTION OF S. 190 ST. AND 62 AVE. S. MAG NAIL IS IN TRAIL WEST OF TWO COVERED PICNIC AREAS.

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PLOT DATE: 12/22/2014 PLOT TIME: 2:04 PM FILE NUMBER: EV14-059
SIZE: ANSI D FILE NAME: NWS_USSF_WA_N_Site SHEET Seed_3D.dgn

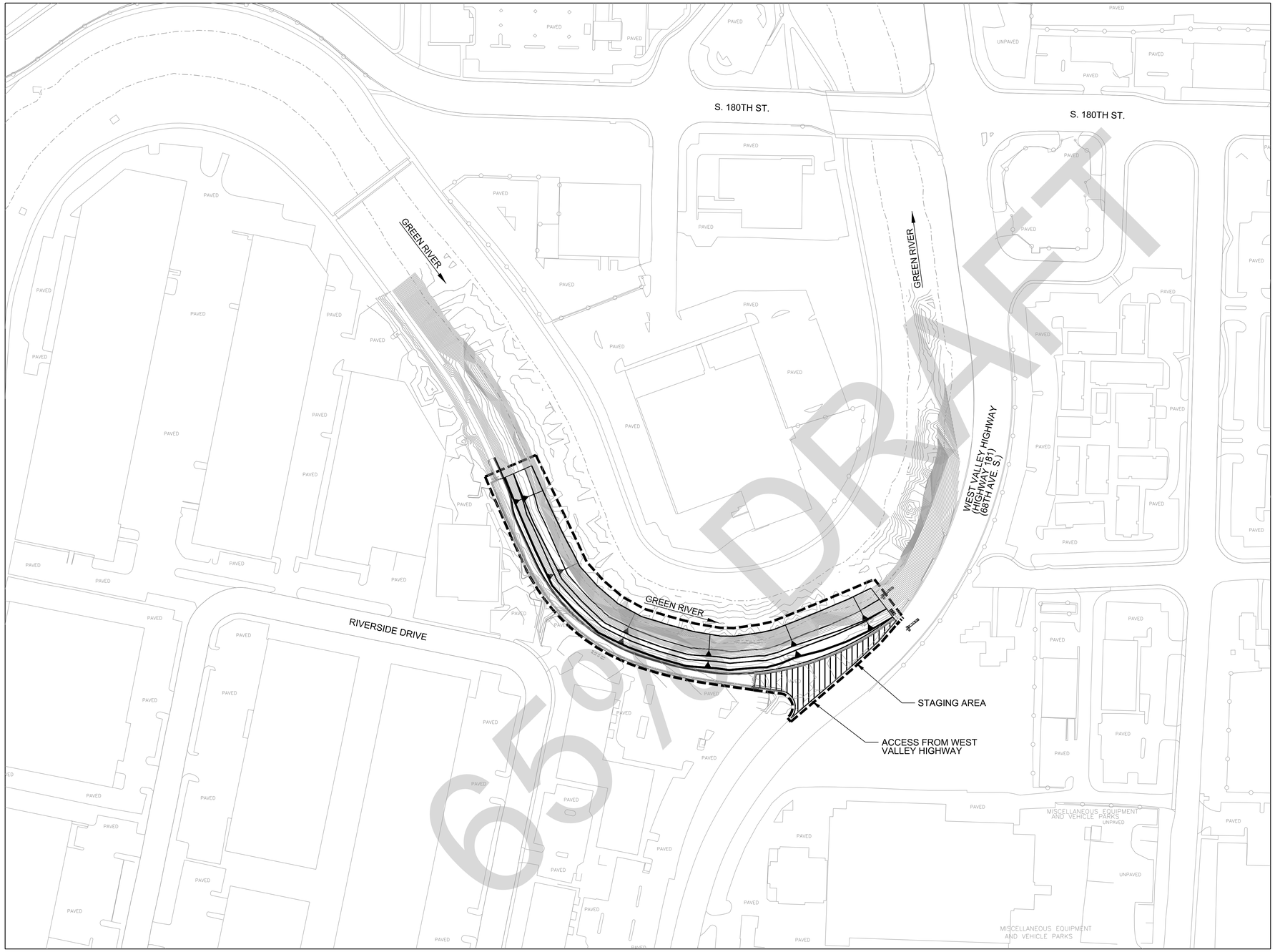
DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

LEGEND, ABBREVIATIONS AND NOTES

SHEET IDENTIFICATION
C-001
SHEET 0 OF 0

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\Civil\PN448192_GRDL-C-001LEG.dgn

DATE AND TIME PLOTTED: 12/22/2014



NOTES:

1. MAPPING COMPILED FROM FEBRUARY 2006 AERIAL PHOTOS MAPPING 3D1WEST FOR KING COUNTY DNR AND PARKS. MAP SCALE: 1"=100', CONTOUR INTERVAL: 2'. HORIZONTAL DATUM: NAD 83/91 (HARN) WA STATE PLANE, NORTH ZONE (FEET). VERTICAL DATUM: NAVD '88. MAP HAS NOT BEEN COMPREHENSIVELY VERIFIED BY FIELD CHECKS.

2. ALL REAL ESTATE REQUIREMENTS AND UTILITY RELOCATIONS NECESSARY FOR PROJECT CONSTRUCTION SHALL BE OBTAINED/PERFORMED BY CITY OF TUKWILA PRIOR TO CONSTRUCTION.

N

1 C-001 HAUL ROUTE AND STAGING AREA
1" = 100'
0 100' 200'

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DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

HAUL ROUTE AND STAGING AREA

SHEET IDENTIFICATION
C-002
SHEET 0 OF 0

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\Civil\PN448192_GRDL-C-002AHR.dgn

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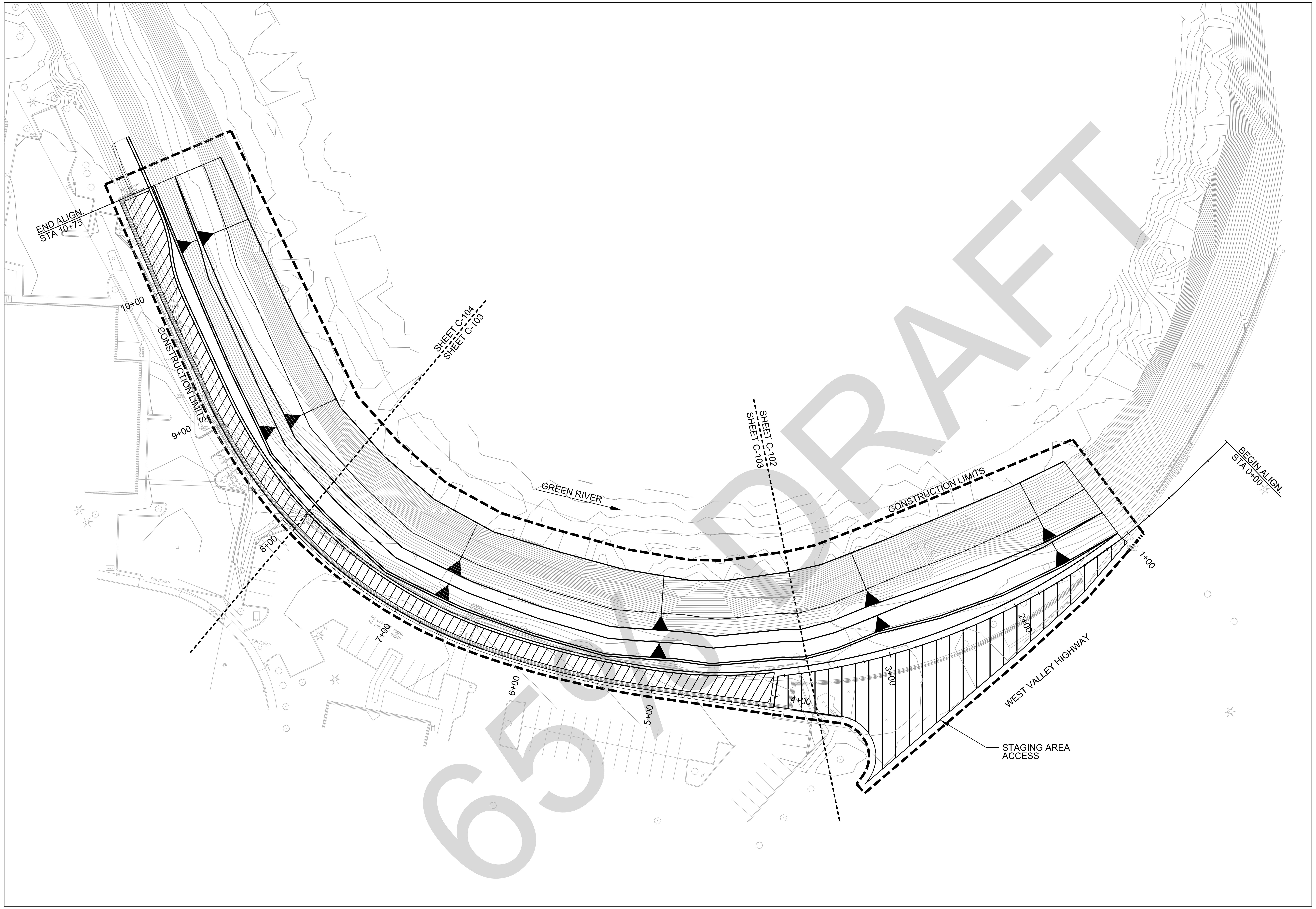

1
C-001
GENERAL SITE PLAN
1" = 40'
0 40' 80'

NOTES:

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-001.

2. ALL REAL ESTATE REQUIREMENTS AND UTILITY RELOCATIONS NECESSARY FOR PROJECT CONSTRUCTION SHALL BE OBTAINED/PERFORMED BY CITY OF TUKWILA PRIOR TO CONSTRUCTION.

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SIZE: ANSI D | FILE NAME: NWS_USSF_WA_N_Site SHEET Seed_3D.dgn

DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

GENERAL SITE PLAN

SHEET IDENTIFICATION
C-003
SHEET 0 OF 0

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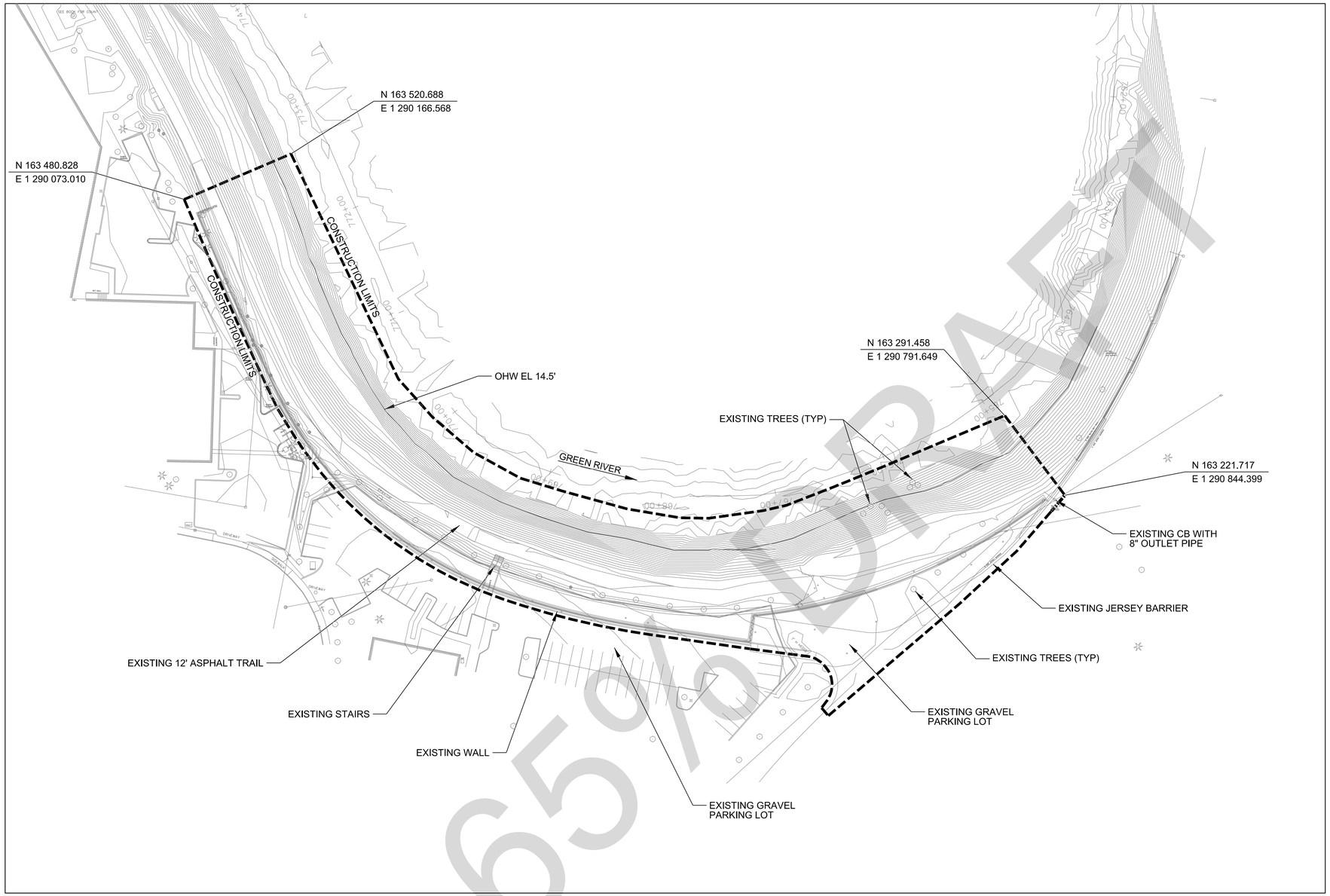
DATE AND TIME PLOTTED: 12/22/2014



NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE SHEET C-001.

2. HISTORICAL RIVER FLOWS DURING CONSTRUCTION WINDOW....

3. SEE CITY OF KENT PUBLIC WORKS PROJECT BRISCOE-DESIMONE LEVEE IMPROVEMENTS REACH 1 FLOOD WALL INSTALLATION, RIVER MILE 14.47-14.64 JOB NUMBER 09-3011, FOR AS-DESIGN DRAWING OF RETAINING WALL CONSTRUCTION AND CONDITION OF BACK FILL BETWEEN RETAINING WALL AND LEVEE PRISM. DEMOLITION OF SITE FEATURES LANDWARD OF LEVEE CENTERLINE, CONSTRUCTION OF RETAINING WALL AND BACK FILL BETWEEN RETAINING WALL AND LEVEE PRISM SHALL BE COMPLETED PRIOR TO START OF CONSTRUCTION.

N

1 C-101 EXISTING CONDITIONS
1" = 50'
0 50' 100'

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DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

EXISTING CONDITIONS

SHEET IDENTIFICATION
C-101
SHEET 0 OF 0

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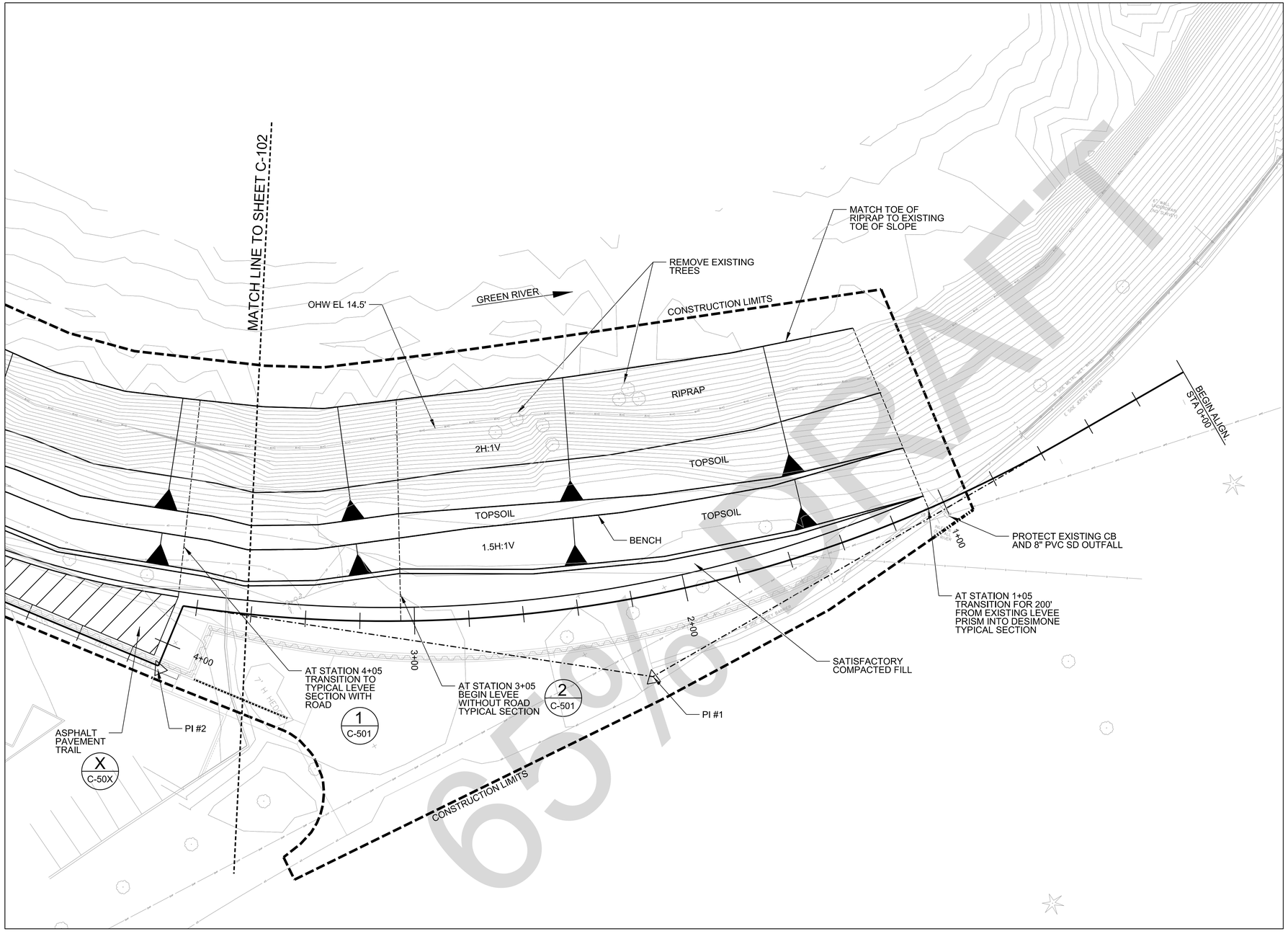


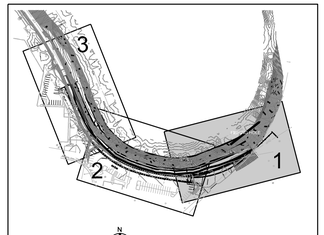
1 C-102 SITE PLAN 1
1" = 20'
0 20' 40'

NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE SHEET C-001.

2. FOR LEVEE HORIZONTAL CONTROL, SEE SHEET C-105.

3. LEVEE TOP ELEVATION AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PROJECT SHALL MATCH THE EXISTING GRADE ELEVATIONS. A CONTINUOUS SLOPE BETWEEN THE UPSTREAM AND DOWNSTREAM END ELEVATIONS SHALL BE CONSTRUCTED FOR THE FINAL GRADE OF THE LEVEE BASED ON THE CENTERLINE OF THE LEVEE.



KEY PLAN

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DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

SITE PLAN 1

SHEET IDENTIFICATION
C-102
SHEET 0 OF 0

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\Civil\PN448192_GRDL-C-102S01.dgn

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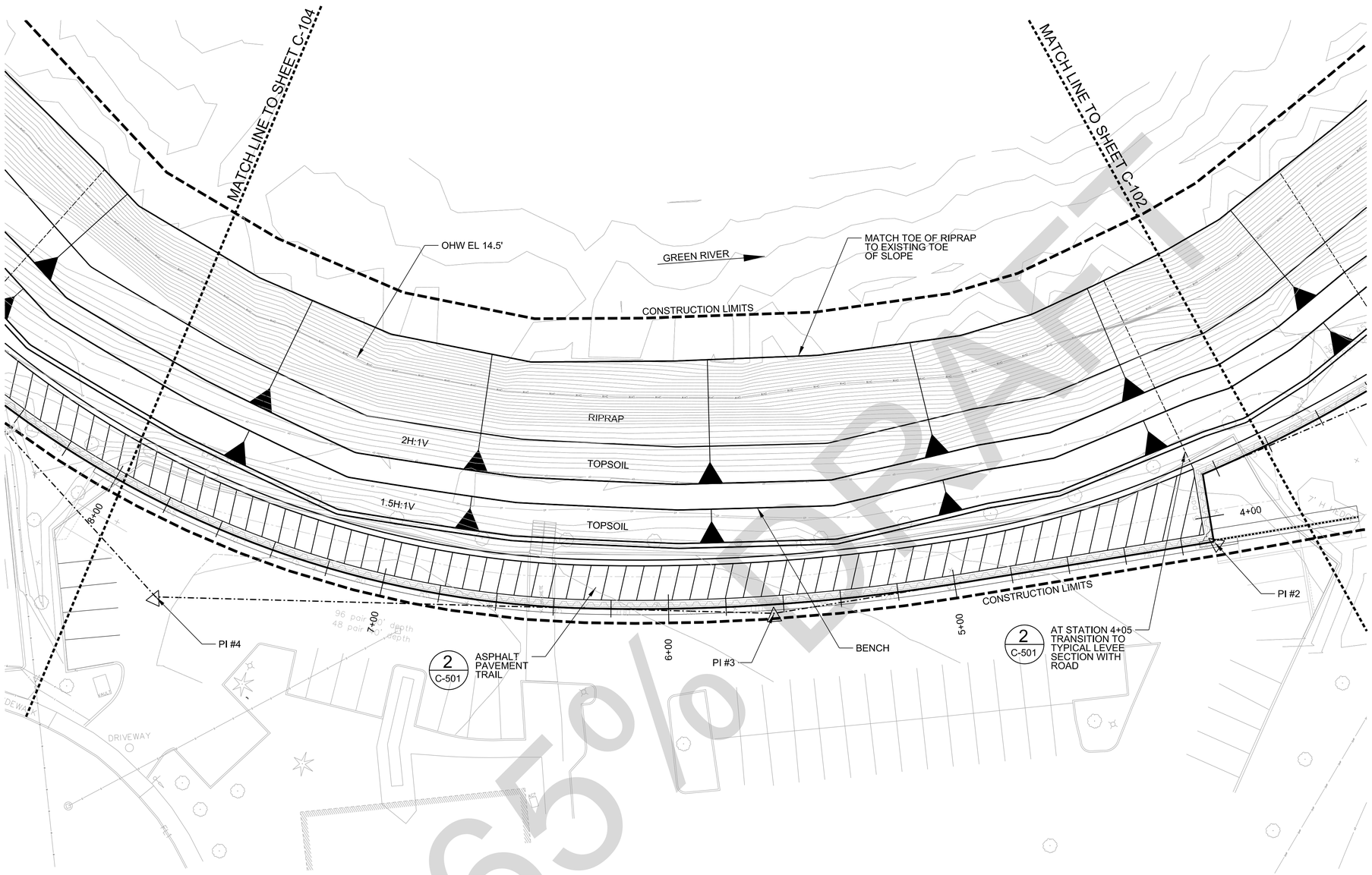


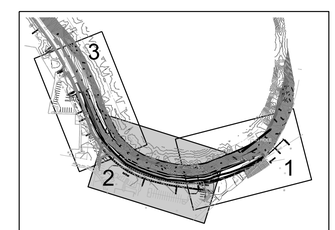
1 C-103 SITE PLAN 2
1" = 20'
0 20' 40'

NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE SHEET C-001.

2. FOR LEVEE HORIZONTAL CONTROL, SEE SHEET C-501.

3. LEVEE TOP ELEVATION AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PROJECT SHALL MATCH THE EXISTING GRADE ELEVATIONS. A CONTINUOUS SLOPE BETWEEN THE UPSTREAM AND DOWNSTREAM END ELEVATIONS SHALL BE CONSTRUCTED FOR THE FINAL GRADE OF THE LEVEE BASED ON THE CENTERLINE OF THE LEVEE.



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SITE PLAN 2

SHEET IDENTIFICATION
C-103
SHEET 0 OF 0

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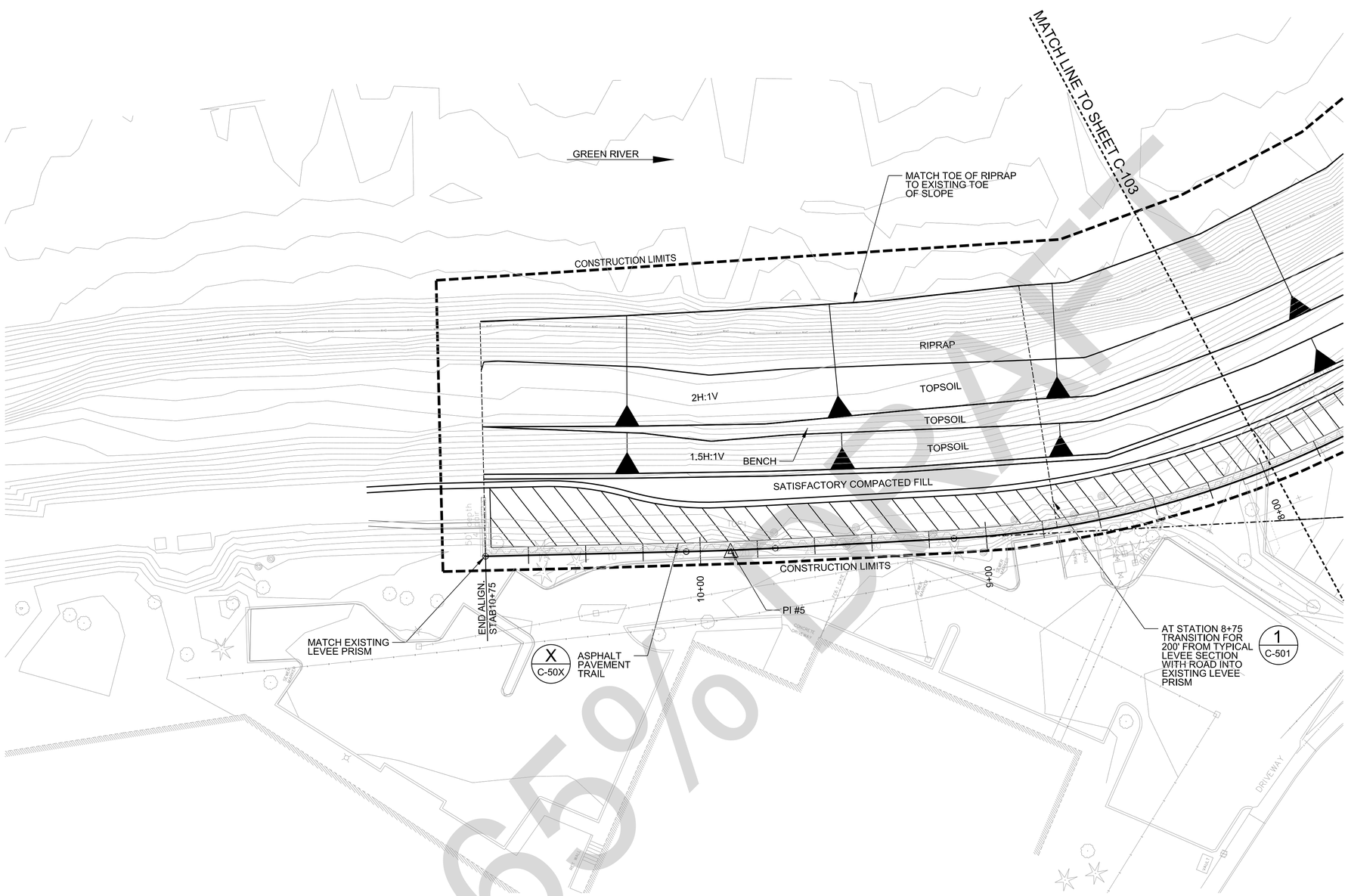


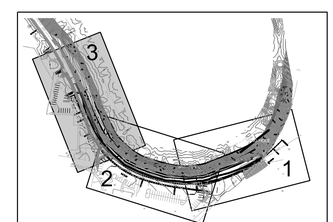
1 C-104 SITE PLAN 3
1" = 20'
0 20' 40'

NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE SHEET C-001.

2. FOR LEVEE HORIZONTAL CONTROL, SEE SHEET C-105.

3. LEVEE TOP ELEVATION AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PROJECT SHALL MATCH THE EXISTING GRADE ELEVATIONS. A CONTINUOUS SLOPE BETWEEN THE UPSTREAM AND DOWNSTREAM END ELEVATIONS SHALL BE CONSTRUCTED FOR THE FINAL GRADE OF THE LEVEE BASED ON THE CENTERLINE OF THE LEVEE.



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DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
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SITE PLAN 3

SHEET IDENTIFICATION
C-104
SHEET 0 OF 0

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HORIZONTAL CONTROL TABLE

START ALIGNMENT

STA 0+00.00
N 163,289.640
E1,290,906.440ALIGN.

PC #1

STA 0+50.00
N 163,254.750
E 1,290,870.620

PI #1

STA 2+24.09
N 163,133.290
E 1,290,745.910
Radius: 500.00
Delta: 38°23'38" Right
Length: 335.05
DOC (Arc): 11°27'33"
Chord: 328.82
Chord Direction: S 64°57'14" W
Tangent: 174.09
Tangent Direction: S 45°45'26" W

PT #1

STA 3+85.05
N 163,115.550
E 1,290,572.730

PI #2

STA 4+08.78
N 163,092.060
E 1,290,569.350

PC #3

STA 4+97.78
N 163,104.710
E 1,290,481.250

PI #3

STA 5+63.65
N 163,114.070
E 1,290,416.050
Radius: 698.00
Delta: 10°46'55" Right
Length: 131.35
DOC (Arc): 8°12'31"
Chord: 131.15
Chord Direction: N 76°26'16" W
Tangent: 65.87
Tangent Direction: N 81°49'44" W

PCC

STA 6+29.13
N 163,135.470
E 1,290,353.760

PI #4

STA 7+78.39
N 163,183.940
E 1,290,212.590
Radius: 350.00
Delta: 46°11'32" Right
Length: 282.17
DOC (Arc): 16°22'13"
Chord: 274.59
Chord Direction: N 47°57'03" W
Tangent: 149.26
Tangent Direction: N 71°02'49" W

PT #4

STA 9+11.30
N 163,319.380
E 1,290,149.850

PC #5

STA 9+73.77
N 163,376.060
E 1,290,123.600

PI #5

STA 9+89.33
N 163,390.180
E 1,290,117.060
Radius: 1000.00
Delta: 1°47'00" Right
Length: 31.12
DOC (Arc): 5°43'46"
Chord: 31.12
Chord Direction: N 23°57'47" W
Tangent: 15.56
Tangent Direction: N 24°51'17" W

PT #5

STA 10+04.89
N 163,404.500 E 1,290,110.960

END ALIGNMENT

STA 10+75.00
N 163,404.500
E 1,290,110.960

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U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

DESIGNED BY: | DATE:
DWN BY: | CKD BY:
SUBMITTED BY:
PLOT DATE: 12/22/2014 | PLOT TIME: 2:33:50 PM | FILE NUMBER: E-51-4-69
SIZE: ANSI D | FILE NAME: NWS_USSF_WA_N_Site SHEET Seed_3D.dgn

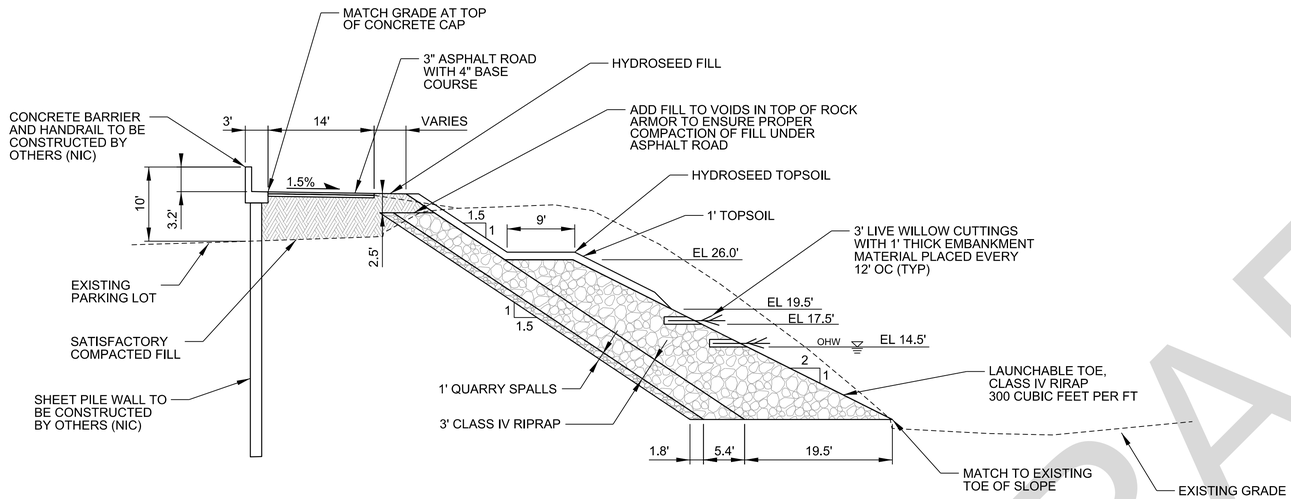
DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

HORIZONTAL CONTROL TABLE

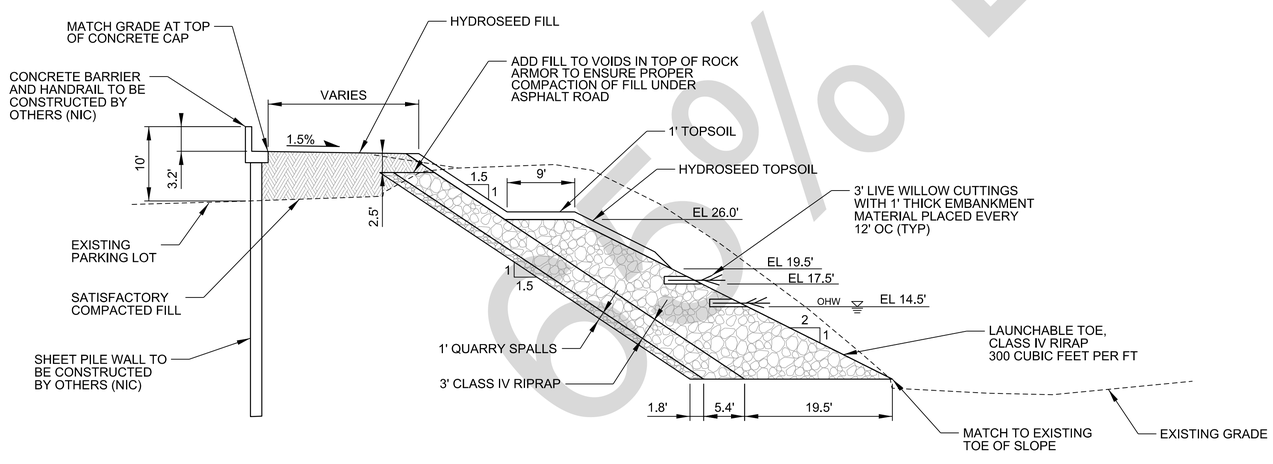
SHEET IDENTIFICATION
C-105
SHEET 0 OF 0

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\Civil\PN448192_GRDL-C-105S04.dgn

DATE AND TIME PLOTTED: 12/22/2014



1 C-102 TYPICAL LEVEE CROSS-SECTION WITH ROAD
1" = 10'
0 10' 20'



2 C-102 TYPICAL LEVEE CROSS-SECTION WITHOUT ROAD
1" = 10'
0 10' 20'

NOTES:

1. CLEAR ALL TREES, TIMBER, BRUSH, VEGETATION, LOOSE STONE, ABANDONED STRUCTURES, FENCING, AND DEBRIS. REMOVE ALL STUMPS, ROOTS OVER 1.5 INCHES IN DIAMETER, BURIED LOGS, OLD PILING, OLD PAVING, DRAINS, AND OTHER OBJECTIONABLE MATERIAL UP TO A DEPTH OF 3 FEET BELOW NATURAL GROUND SURFACE AND BACKFILL IN ACCORDANCE WITH EM 1110-201913.

65% DRAFT

US Army Corps of Engineers®
SEATTLE DISTRICT

MARK	DESCRIPTION	DATE	APPR.

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SEATTLE DISTRICT
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DESIGNED BY: | DATE:
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DESIMONE-BRISCOE SCHOOL LEVEE REHABILITATION
TUKWILA, WASHINGTON

TYPICAL CROSS-SECTIONS

SHEET IDENTIFICATION
C-501
SHEET OF 0

DESIGN FILE: I:\AECDesigns\FY15_PN448192_GRDL\Con_Docs\CAD_Sheets\Civil\PN448192_GRDL-C-501DET.dgn
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