

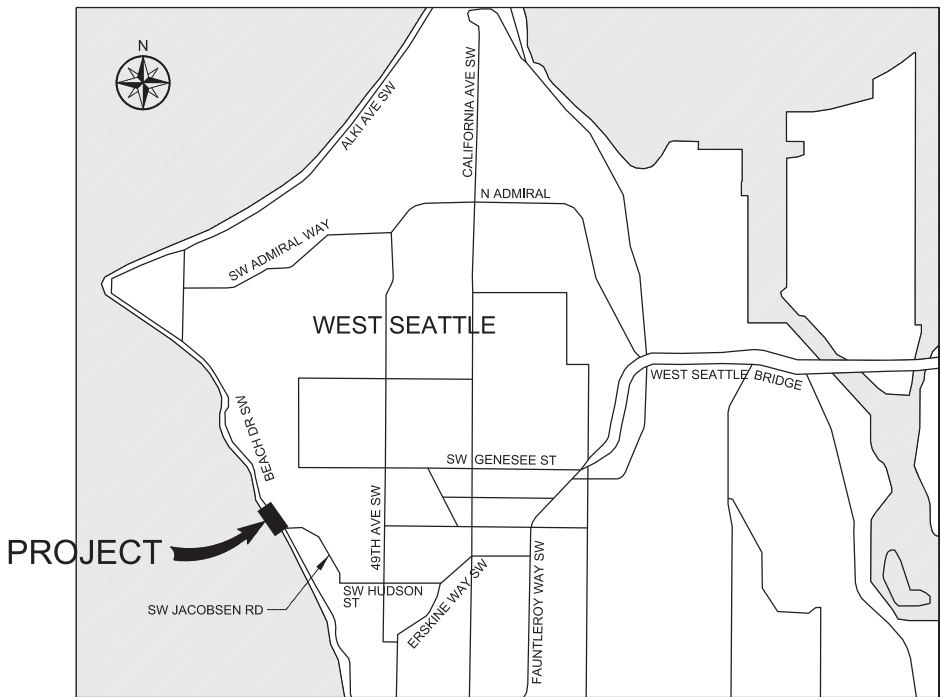


US Army Corps
of Engineers®
Seattle District

FY19 P2-395621 ALKI COASTAL EROSION CONTROL PROJECT SECTION 103 SEATTLE, WASHINGTON



PROJECT VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS

DRAWING INDEX	
SHEET ID	SHEET TITLE
GENERAL	
G-001	TITLE, VICINITY AND LOCATIONS MAPS, AND DRAWING INDEX
GEOTECH	
B-101	LOCATIONS OF EXPLORATIONS
B-301	BORING LOGS 1
B-302	BORING LOGS 2
CIVIL	
C-001	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
C-002	ACCESS AND STAGING AREA
C-003	EXISTING CONDITIONS AND DEMOLITION PLAN 1
C-004	EXISTING CONDITIONS AND DEMOLITION PLAN 2
CS101	PLAN AND PROFILE 1
CS102	PLAN AND PROFILE 2
CS103	PLAN AND PROFILE 3
CG101	GRADING PLAN 1
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C-301	TYPICAL WALL SECTION 1
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C-401	ENLARGED PLAN
C-501	RAILING DETAILS
LANDSCAPE	
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L-501	LANDSCAPE DETAILS
STRUCTURAL	
S-001	STRUCTURAL LEGEND, ABBREVIATIONS AND GENERAL NOTES
S-501	STRUCTURAL DETAILS

REFERENCE DRAWINGS	
REF. NO.	TITLE
1	WEST ALASKA STREET OVERFLOW OUTFALL (1 OF 5)
2	WEST ALASKA STREET OVERFLOW OUTFALL (2 OF 5)
3	WEST ALASKA STREET OVERFLOW OUTFALL (3 OF 5)
4	WEST ALASKA STREET OVERFLOW OUTFALL (4 OF 5)
5	WEST ALASKA STREET OVERFLOW OUTFALL (5 OF 5)
6	BEACH DRIVE INTERCEPTOR UNIT NO. 1 (1 OF 8)
7	BEACH DRIVE INTERCEPTOR UNIT NO. 1 (4 OF 8)
8	BEACH DRIVE INTERCEPTOR UNIT NO. 1 (5 OF 8)
9	BEACH DRIVE INTERCEPTOR UNIT NO. 1 (8 OF 8)
10	BEACH DRIVE INTERCEPTOR UNIT NO. 2 (1 OF 12)

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



US Army Corps
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Seattle District

Date:
31 MAY 2019

Solicitation No.:
W912DW1980008

File No.:
E-12-3-54

Recommended by:
GUY L. GREEN, P.E.
Chief, Design Branch
Date: 05/31/2019
Approved by:
JOANN T. WALLS, P.E.
Chief, Engineering Div.
Date: 05/31/2019

Submitted by:
JEFFREY F. DILLON
Project Manager
Date: 05/31/2019
Reviewed by:
ANIL L. NISARGAND, P.E.
Chief, Specs. and Tech Review
Date: 05/31/2019

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON
Prepared by:
KIMBALL L. OHSEK
Chief, Soils Section
Date: 05/31/2019

FY19 P2-395621
ALKI COASTAL EROSION CONTROL PROJECT
SECTION 103
SEATTLE, WASHINGTON
TITLE, VICINITY AND LOCATION MAPS,
AND DRAWING INDEX

SHEET
IDENTIFICATION
G-001



LEGEND

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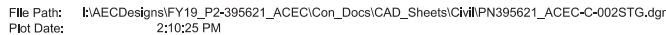
SEATTLE DISTRICT 4735 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON, 98134	MR. GONZA 1000 1ST AVE COVINGTON, LA 70038 CDD BY: M. SWENSON SUBMITTED BY: JEFFREY F. DILLON FILE NUMBER: E-123454 SIZE: ANS1D 31 MAR 2019
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COASTAL EROSION CONTROL
SECTION 103
SEATTLE, WASHINGTON

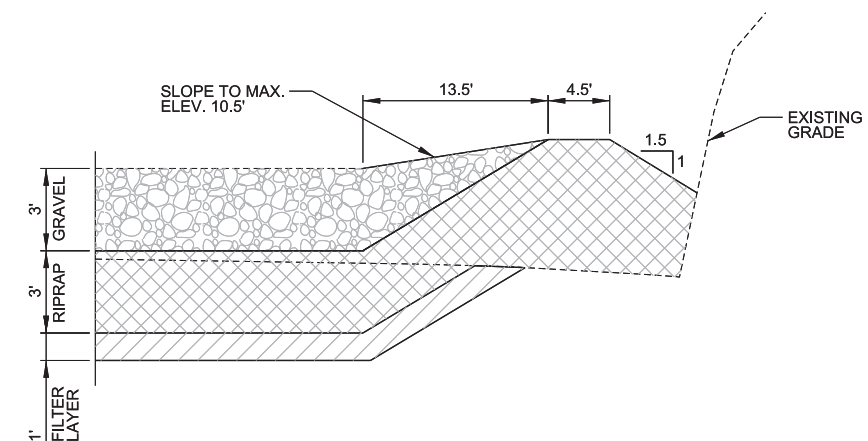
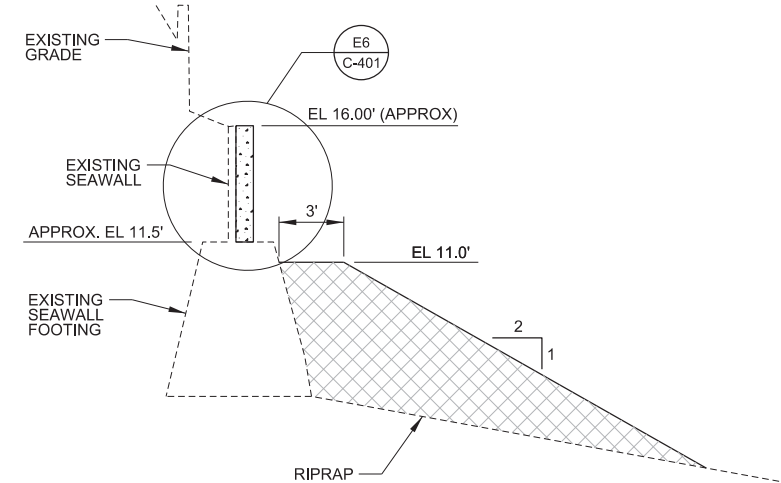
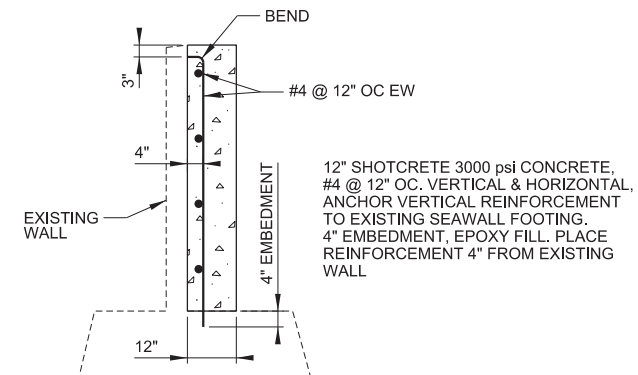
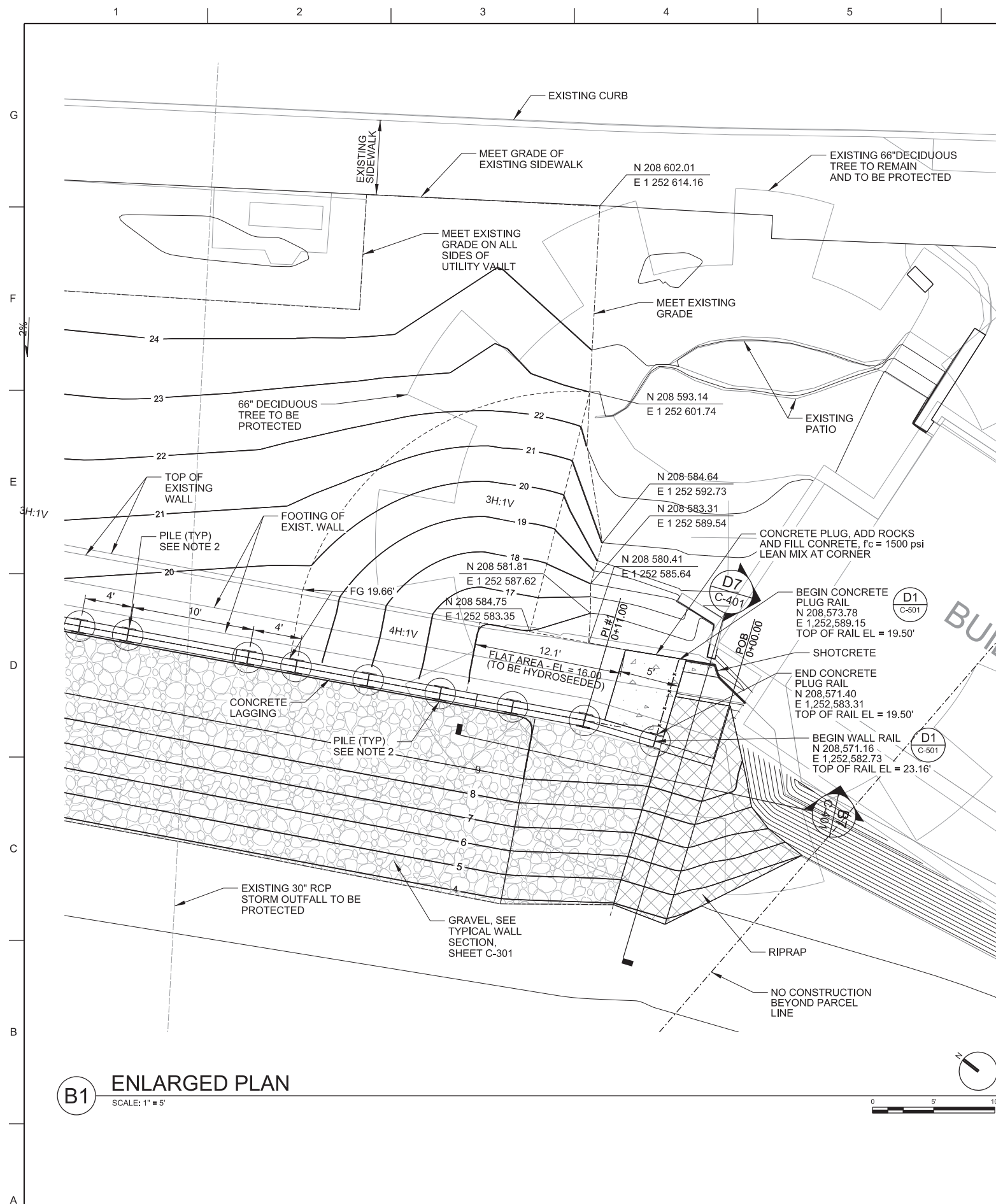
BORING LOGS

SHEET ID

B-301







GENERAL NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE SHEET C-001.
2. PILES SHALL BE 6' O.C., UNLESS SHOWN OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR WALL DESIGN.
4. SEE SHEET C-301, FOR TYPICAL SECTIONS OF WALL.
5. SEE SHEET CS101, FOR SHORING WALL ALIGNMENT HORIZONTAL CONTROL.



U.S. Army Corps
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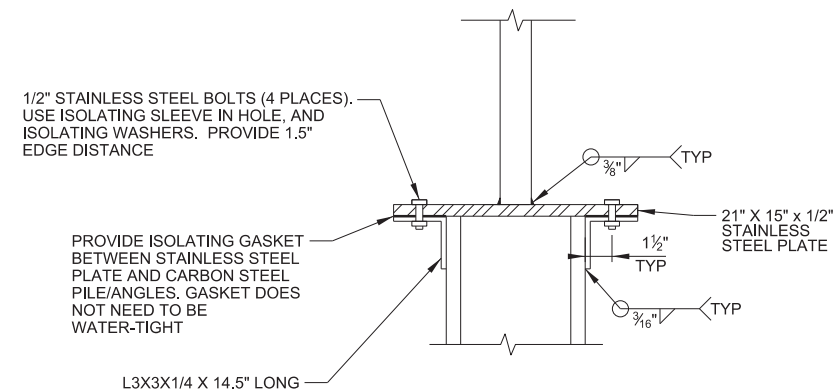
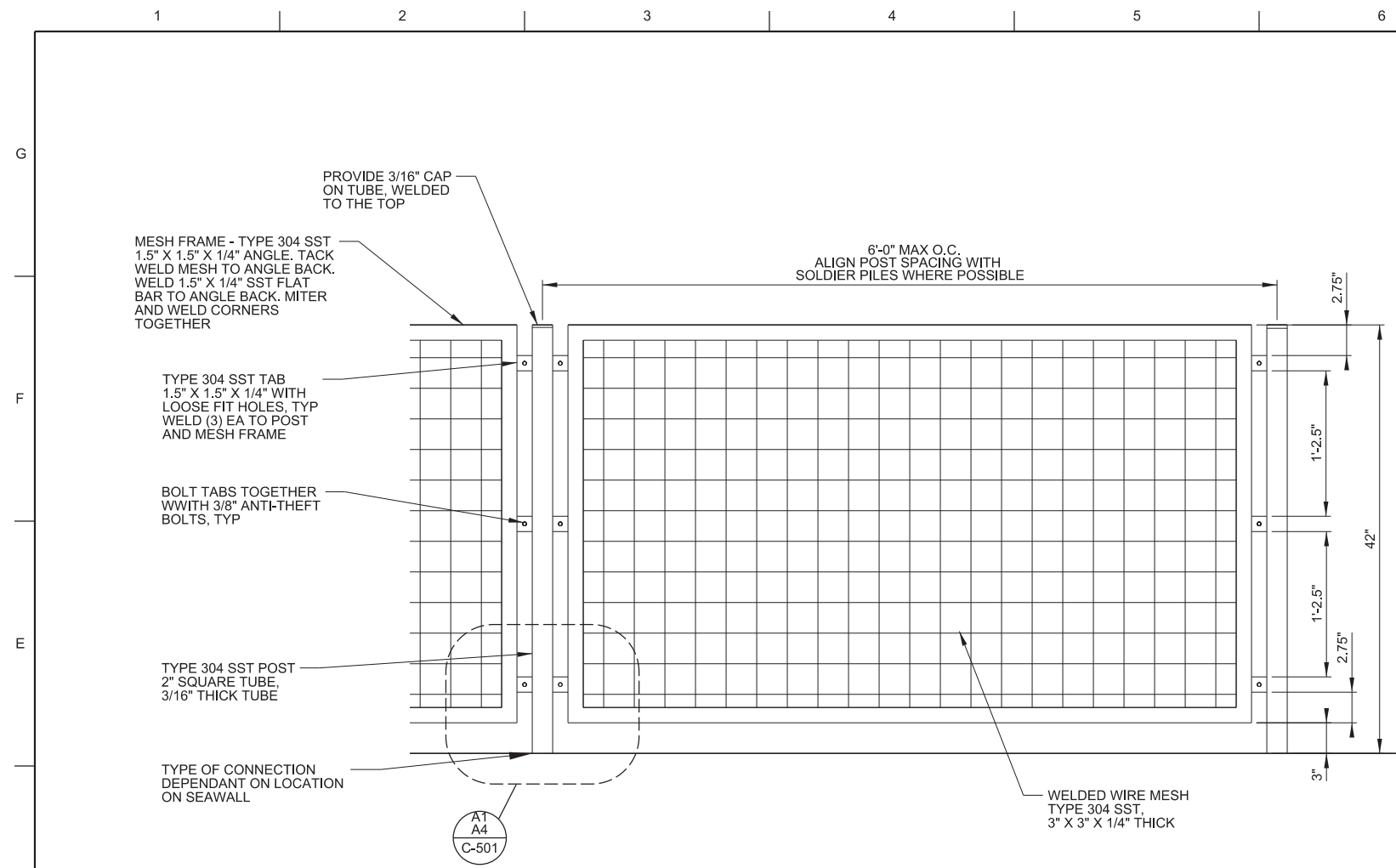
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L.FORD	31 MAY 2019
DWN BY:	SOLICITATION NO.: 87-16
CKD BY:	CONTRACT NO.:
J. SKRINEE	
SUBMITTED BY:	FILE NUMBER:
JEFFREY F. DILLON	E-123-54
SIZE:	
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T11974-93002 FACLO
 ALKI COASTAL EROSION CONTROL
 SECTION 103
 SEATTLE, WASHINGTON
 ENLARGED PLAN

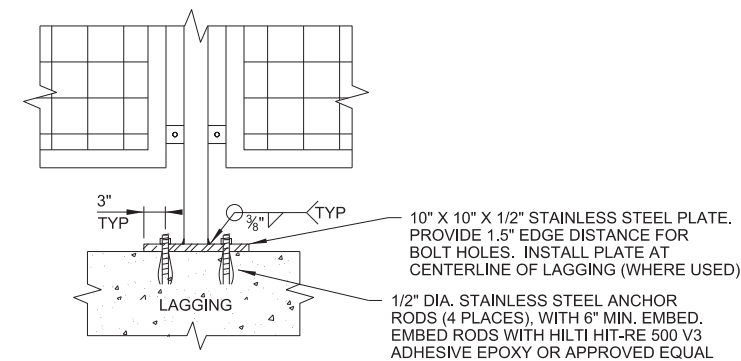
SHEET ID

C-401



NOTES:

1. ISOLATION SLEEVES AND WASHERS SHALL BE A STANDARD, OFF-THE-SHELF PRODUCT. GASKET SHALL BE MADE OF A SIMILAR MATERIAL, WITH THE SAME MINIMUM MATERIAL PROPERTIES AS INDICATED BELOW.
2. ISOLATING MATERIAL SHALL HAVE THE FOLLOWING MINIMUM QUALITIES: MINIMUM WASHER COMPRESSION STRENGTH SHALL BE 18,000 psi PER ASTM D695. DIELECTRIC STRENGTH SHALL BE AT LEAST 300 VOLTS/MIL PER ASTM D149. WATER ABSORPTION SHALL BE LESS THAN 1.5% PER ASTM D229.
3. ENSURE THAT ANGLE RECEIVES THE SAME COATING AS THE STEEL PILE, INCLUDING INSIDE OF BOLT HOLES. CONTRACTOR MAY INCREASE ANGLE THICKNESS (AND ASSOCIATED WELDS) AT THEIR OPTION FOR EASE OF HANDLING.



NOTES:

1. ALL POSTS AND BALUSTERS MUST BE PLUMB AND RAILS PARALLEL TO GRADE.
2. PIPE DIAMETERS SHOWN ARE "NOMINAL" DIAMETERS AS GIVEN IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
3. ATTACH POSTS TO PILES, EXCEPT WHERE SPACING DOES NOT ALLOW.
4. CONTRACTOR TO PROVIDE COMPLETE AND USABLE RAILING SYSTEM. PROVIDE TYPICAL INDUSTRY DETAILS BASED ON SIMILAR RAILING SYSTEMS AS PART OF FABRICATION DRAWINGS FOR APPROVAL.
5. ALL RAILING MATERIALS, INCLUDING BUT NOT LIMITED TO POSTS, BASEPLATE, MESH, FASTENERS, AND ANCHORS SHALL BE A304 STAINLESS STEEL.



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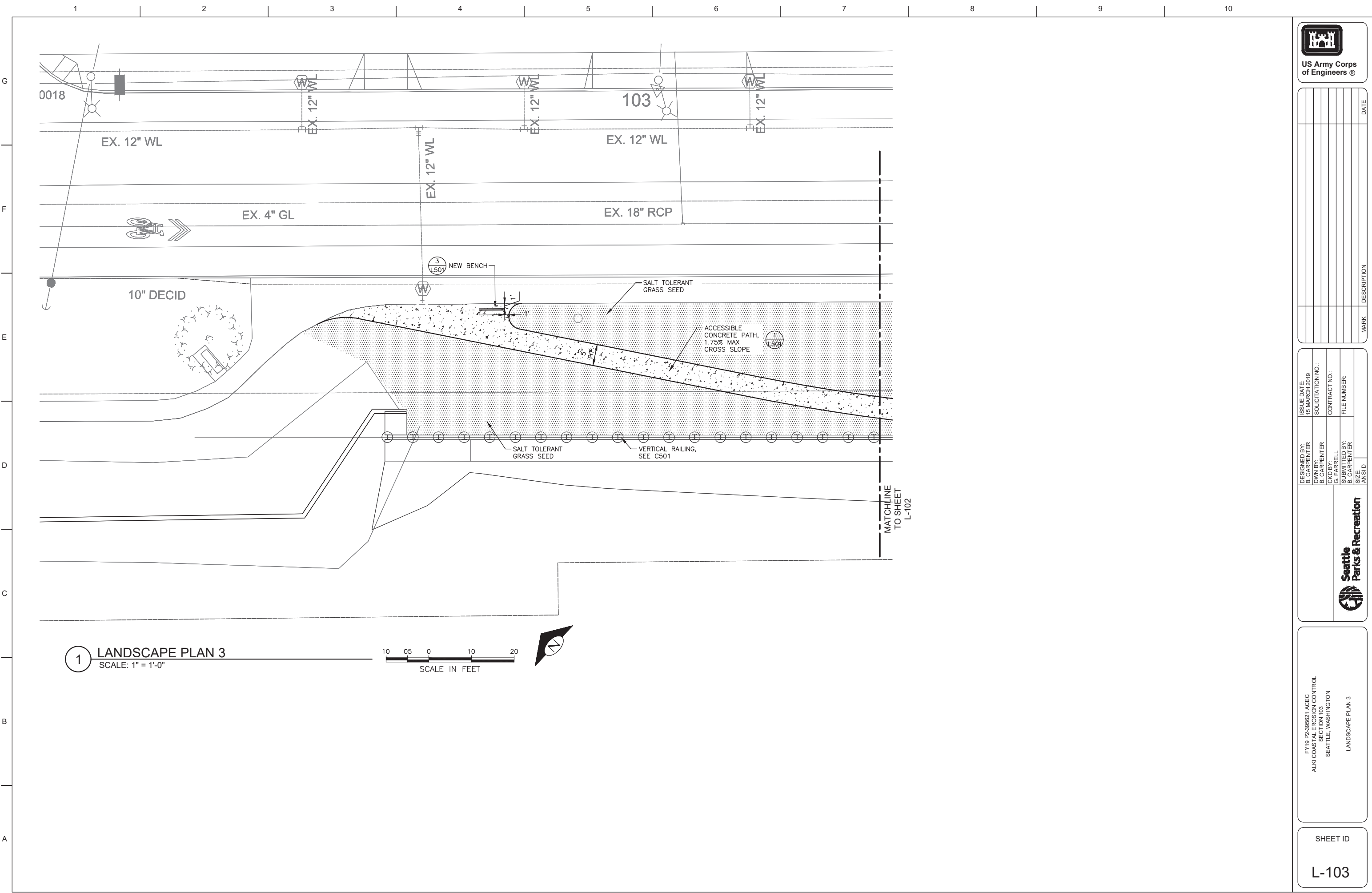
SEATTLE DISTRICT 4735 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON, 98134	L. FORD A. K. JONES A. ROTHY CKD BY: J. SKRINEE	31 MAR 2019 V0120411800003 CONTRACT NO.:
	SUBMITTED BY: JEFFREY F. DILLON	FILE NUMBER: E-123-54
	SIZE: ANSI D	

ALKI COASTAL EROSION CONTROL
SECTION 103
SEATTLE, WASHINGTON

RAILING DETAILS

SHEET ID

C-501



MARK	DESCRIPTION	DATE

DESIGNED BY: B. CARPENTER	ISSUE DATE: 15 MARCH 2019
DWN BY: B. CARPENTER	SOLICITATION NO.:
CKD BY: G. FARRELL	CONTRACT NO.:
SUBMITTED BY: B. CARPENTER	FILE NUMBER:
SIZE: ANSI D	

Seattle Parks & Recreation

FY19 P2-395621 ACEC
ALKI COASTAL EROSION CONTROL
SECTION 103
SEATTLE, WASHINGTON
LANDSCAPE PLAN 3

SHEET ID
L-103



MATERIAL PROPERTIES AND REQUIREMENTS:

1. CONCRETE
 - A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF ACI BUILDING REQUIREMENTS FOR REINFORCED CONCRETE.
 - B. USE 5000 PSI CONCRETE MIX CONCRETE FOR SOLDIER PILE FILL AND PRECAST LAGGING. USE ASTM C1582/C1282M-11 CORROSION INHIBITOR.
 - C. REINFORCING STEEL: ASTM A775/A775M, GRADE 60 (fy = 60 ksi) EPOXY COATED.
2. STRUCTURAL STEEL
 - A. ALL WELDS TO BE PREFORMED BY A CERTIFIED WABO (WASHINGTON ASSOCIATION OF BUILDING OFFICIALS) WELDERS. WELD PER AWS D.1 USING E70XX ELECTRODES.
 - B. STRUCTURAL STEEL (W-SHAPES): ASTM A690 (fy = 50 ksi) MARINE STEEL.
 - C. OTHER STRUCTURAL STEEL SHAPES AND PLATES: ASTM A36 (fy = 36 ksi).
 - D. HIGH-STRENGTH BOLTS: ASTM F3125, GRADE A325, TYPE 1.
 - E. WELDS: E70XX ELECTRODES PER AWS D1.1.

SHORING NOTES:

1. ALL METHODS AND MATERIALS SHALL CONFORM TO THE CURRENT CITY OF SEATTLE BUILDING REQUIREMENTS.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES AS SHOWN ON THE DRAWINGS AND ANY VARIATION WHICH WOULD MODIFY THE RETAINING WALL SYSTEM SHALL BE REPORTED TO THE ENGINEER.
3. SOLDIER PILES SHALL BE PAINTED FOR ADEQUATE CORROSION PROTECTION. SEE SPECIFICATION 09 97 02.
4. LAGGING - USE PRECAST CONCRETE LAGGING. SEE SPECIFICATION 03 45 00.
5. SOLDIER PILES - SEE SPECIFICATION 31 63 29.

DESIGN CRITERIA:

AISC 15TH EDITION
(AMERICAN INSTITUTE OF STEEL CONSTRUCTION)

ACI 318-14
(AMERICAN CONCRETE INSTITUTE)

EM_1110-2-2104 - STRENGTH DESIGN OF REINFORCED CONCRETE
(30 JUNE 1992)

EM_1110-2-2502 - RETAINING AND FLOOD WALLS
(29 SEPTEMBER 1983)

US Army Corps
of Engineers ®[illegible]

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT 4735 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON 98134	DESIGNED BY: F. CHOUREY	ISSUE DATE: 31 MAY 2019
	CHK'D BY: F. CHOUREY	PROJECT NO.: V912DW19B00008
	CONTRACT NO.: G. KHOSROWNJA	FILE NUMBER: F. DILLON E-123-564
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FY19 P2-395621 ACEC
ALKI COASTAL EROSION CONTROL
SECTION 103
SEATTLE, WASHINGTON

STRUCTURAL LEGEND, ABBREVIATIONS
AND GENERAL NOTES

SHEET ID

S-001

