



US Army Corps
of Engineers
Seattle District



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers

Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone: (206) 764-6912
ATTN: Rebecca McAndrew,
Project Manager

WA Department of Ecology

SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone: (360) 407-6068
ATTN: SEA Program,
Federal Permit Coordinator

Public Notice Date: February 25, 2013

Expiration Date: March 27, 2013

Reference No.: NWS-2010-968

Name: Washington State
Department of Transportation
(WSDOT)

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings dated February 15, 2013.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Washington State Department of Transportation

ATTN: Mr. Alan Soicher
Post Office Box 330310
Mail Stop NB82-0138
Seattle, Washington 98133-9710
Telephone: (360) 757-5994

LOCATION: In a ditch, stream, wetlands, and Davis Slough near the City of Stanwood, Snohomish County and Island County, Washington.

WORK: The Washington State Department of Transportation (WSDOT) proposes to widen and raise the elevation along 0.89 mile of State Route (SR) 532 across Leque Island and a portion of Camano Island. The project would widen the lanes from 11 feet to 12 feet and add a 4-foot median and 14-foot shoulders that could accommodate vehicle breakdowns, bicycles, or pedestrians. In the future, the roadway could be striped for four, 11-foot lanes with 6-foot shoulders. Widening to four lanes is consistent the SR 532 Route Development Plan. The road would be raised to protect from flooding due to dike failures and storms combined with high tides.

The work would permanently impact 0.18 acre of Washington State Department of Ecology Category I, estuarine emergent wetland; 1.63 acres of Category II, estuarine emergent wetland; 0.25 acre of Category III and IV, palustrine scrub-shrub and emergent wetland; 0.09 acre of mudflat associated with Davis Slough and an unnamed stream; and 0.28 acre of ditch. Short-term temporary wetland impacts total 2.29 acres, of which 1.93 acres is farmed wetland. Long-term temporary impacts to wetlands with woody vegetation are 0.11 acre. Temporary

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mudflat impacts total 0.12 acre. Permanent wetland and stream buffer impacts are 2.18 acres and temporary wetland and stream buffer impacts are 0.53 acre. The buffer impacts are to shrub and herbaceous vegetation.

The functions provided by the impacted wetland include flood flow alteration, sediment removal, nutrient and toxicant removal, organic matter production and export, general habitat suitability, aquatic invertebrate habitat, wetland-associated mammal habitat, wetland-associated bird habitat, native plant richness, educational or scientific value, and uniqueness and heritage.

PURPOSE: Improve safety on SR 532 to maintain the only land-based transportation access to Camano Island and ensure any improvements are compatible with future mobility needs.

ADDITIONAL INFORMATION: WSDOT considered five alternatives for the road improvements: 1) raise the road but not widen, 2) widen to the north, 3) widen symmetrically, 4) construct a trestle, and 5) widen to the south. WSDOT identified Alternative 5 as the preferred alternative based on the following determinations. Alternative 1 does not meet the project purpose. Alternative 2 would result in 1.46 acres of permanent impact to Category I estuarine wetland rather than 0.14 acre with the preferred alternative. Alternative 3 would result in 0.63 acre of permanent impact to Category I estuarine wetland rather than 0.14 acre with Alternative 5 and require a temporary bypass road and bridge, long-term temporarily impacting 2.6 acres of Category I estuarine wetland. Alternative 4 would cost approximately \$88 million more than Alternative 5, which is not practicable.

If issued, this permit would be valid for 5 years. Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at: <http://www.nws.usace.army.mil/> and under the heading "Open Public Comment Periods," select "Regulatory Public Notices." Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

MITIGATION: WSDOT minimized impacts to wetlands and mudflat by steepening fill slopes to 1.2:1 using geogrid reinforcement, constructing retaining walls at the Davis Slough crossing, obtaining a flow control variance eliminating the need for a stormwater detention pond, adjusting the locations of media filter drains, and protecting the reinforced slopes with articulated concrete mattresses instead of riprap. This reduced impacts by 2.99 acres. To compensate for unavoidable project impacts, WSDOT would mitigate offsite.

To compensate for the permanent impact to 2.06 acres and the long-term temporary impact to 0.11 acre of wetland, WSDOT would mitigate at a 39-acre site (Dugualla Bay Mitigation Site [mitigation site]) located approximately 12 miles northwest from the project corridor on Whidbey Island. The site is separated from Dugualla Bay by a dike and Dike Road separates the site from Dugualla Pond. The mitigation site contains one, 22-acre Category II estuarine emergent wetland and an unnamed stream that flows through the site and empties into Dugualla Pond via a culvert under Dike Road. Water in Dugualla Pond is pumped into Dugualla Bay. WSDOT would re-establish and rehabilitate estuarine emergent wetland and mudflat by excavating two channels through the existing dike. A direct connection to Dugualla Bay would be provided and the unnamed stream would no longer flow under Dike Road, but directly to Dugualla Bay. A set-back dike would be constructed adjacent to Dike Road and existing ditches at the mitigation site would be filled. The set-back dike would impact 1.49 acres of wetland. WSDOT estimates that 7.26 acres of mudflat would be re-established, 8.62 acres of mudflat would be preserved, 4.12 acres of estuarine wetland would be re-established, and 12.29 acres of estuarine wetland would be rehabilitated. The re-established estuarine wetland would naturally recruit and colonize emergent vegetation and the rehabilitated estuarine wetland would transition from salt-tolerant vegetation to low-salt marsh vegetation. A total of 5.65 acres of buffer would be enhanced along the southern edge of the site. The project would use 3.88 acre of re-established wetland, 1.93 acres of rehabilitated wetland, 0.22 acre of re-established mudflat to compensate for project impacts. The mitigation includes compensation for the set-back dike. An approximate 175-foot buffer would be provided

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around the site for a total of 5.65 acres. The project would use 4.93 acres of the buffer to compensate for project impacts. WSDOT would re-establish and rehabilitate additional wetland; re-establish, rehabilitate, and preserve additional mudflat; and enhance additional buffer area within the site to potentially be used by future projects, depending on project approval by the regulatory agencies.

The mitigation site would provide sediment removal, nutrient and toxicant removal, erosion control and shoreline stabilization, organic matter production and export, general habitat suitability, general fish habitat, aquatic invertebrate habitat, wetland-associated mammal habitat, native plant richness, educational or scientific value, and uniqueness and heritage functions compared to the impacted functions. All of impacted functions would be provided in equal or higher levels at the mitigation site, except for the flood flow alteration function provided by a palustrine wetland, which would not be provided at the mitigation site due to its location contiguous with Dugalla Bay.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat.

WSDOT, as the designated lead agency for ESA consultation, has consulted with the USFWS and the NMFS as required under Section 7 of the ESA. The Corps agrees with their determination that the project may affect, not likely to adversely affect listed species. The USFWS and NMFS issued letters of concurrence on December 12, 2012, and January 17, 2013, respectively.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would not impact EFH in the project area.

WSDOT, as the designated lead agency for a determination regarding EFH, has determined that the proposed action will not adversely affect designated EFH for federally managed fisheries in Washington waters. The Corps agrees with their determination. No further EFH consultation is necessary.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. A historic properties investigation has been conducted within the permit area. No historic properties determined eligible for or listed on the National Register of Historic Places were found to exist within the permit area. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION – CORPS: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors

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which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

SOURCE OF FILL MATERIAL: The applicant has not yet identified the source of the fill material. Should a permit be issued, the Corps will evaluate the fill material source prior to the start of construction.

EVALUATION – ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

ADDITIONAL EVALUATION: This proposal is the subject of the Shorelines Substantial Development Permit No. 12-110658-SM and the Shorelines Variance Permit No. 12-110660-SM being processed by Snohomish County. The proposal is the subject of the Shoreline Application No. 041/13 Type PL-S-CUP being processed by Island County.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to rebecca.e.mcandrew@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Rebecca McAndrew, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses.

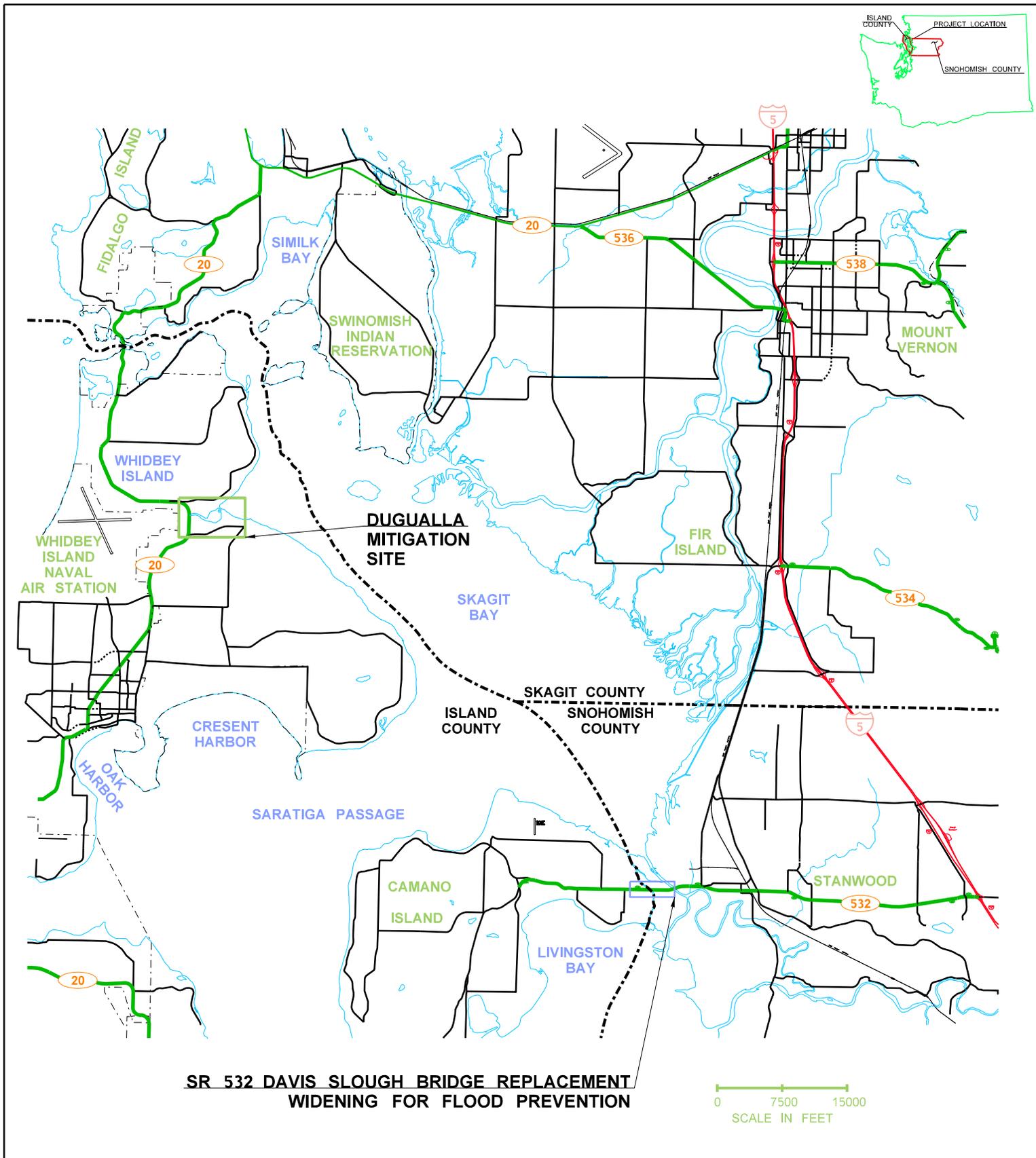
ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology,

NWS-2010-968, Washington State Department of Transportation (WSDOT)

Attention: Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov.

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Washington State Department of Transportation (WSDOT), NWS-2010-968.

Encl: Figures (18)



**SR 532 DAVIS SLOUGH BRIDGE REPLACEMENT
WIDENING FOR FLOOD PREVENTION**



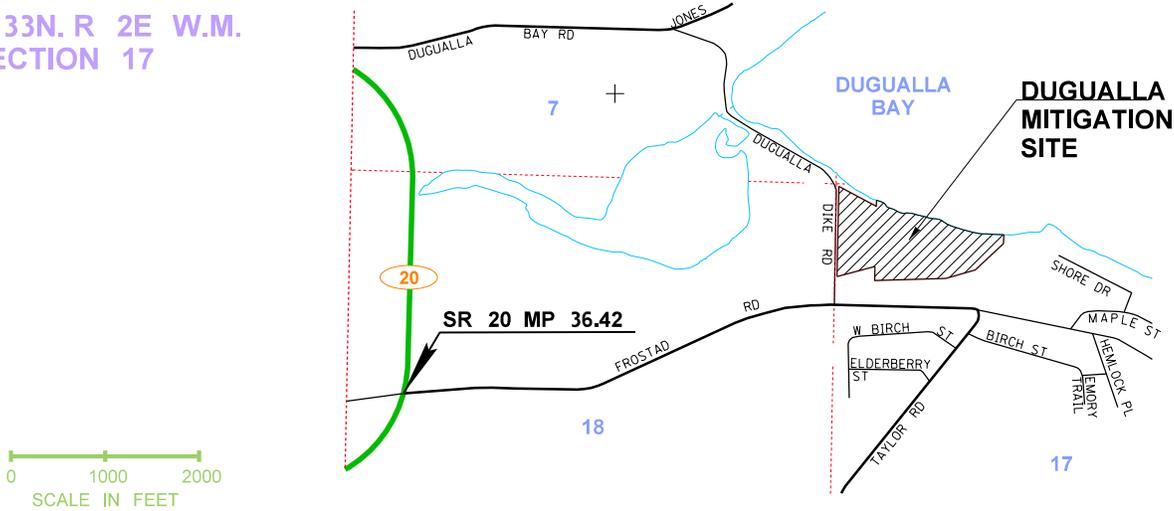
PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH
	DATE: 02-15-2013



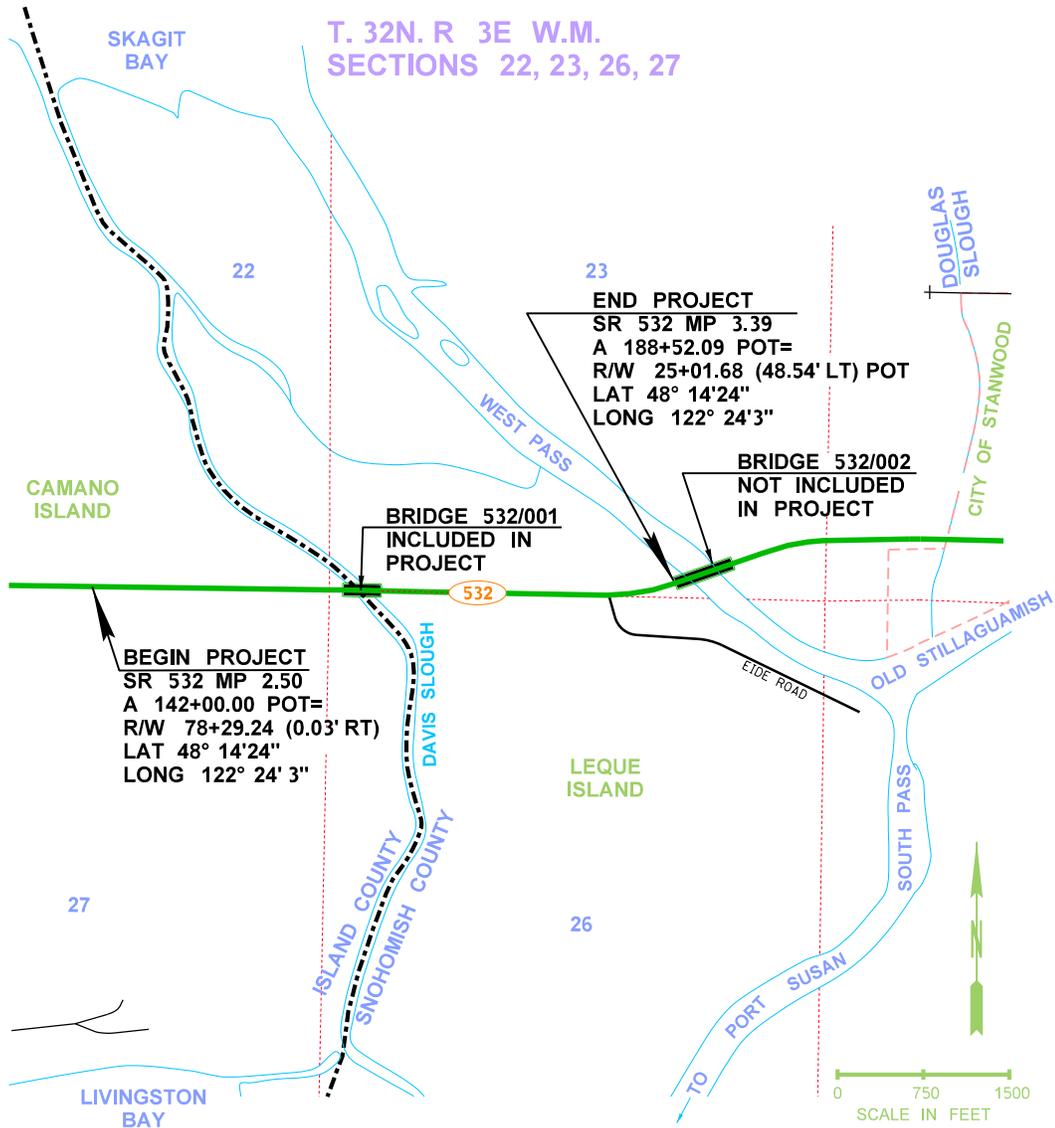
**Washington State
Department of Transportation**

SHEET: 1 OF: 18

T. 33N. R 2E W.M.
SECTION 17



T. 32N. R 3E W.M.
SECTIONS 22, 23, 26, 27



PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY /FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 /91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH

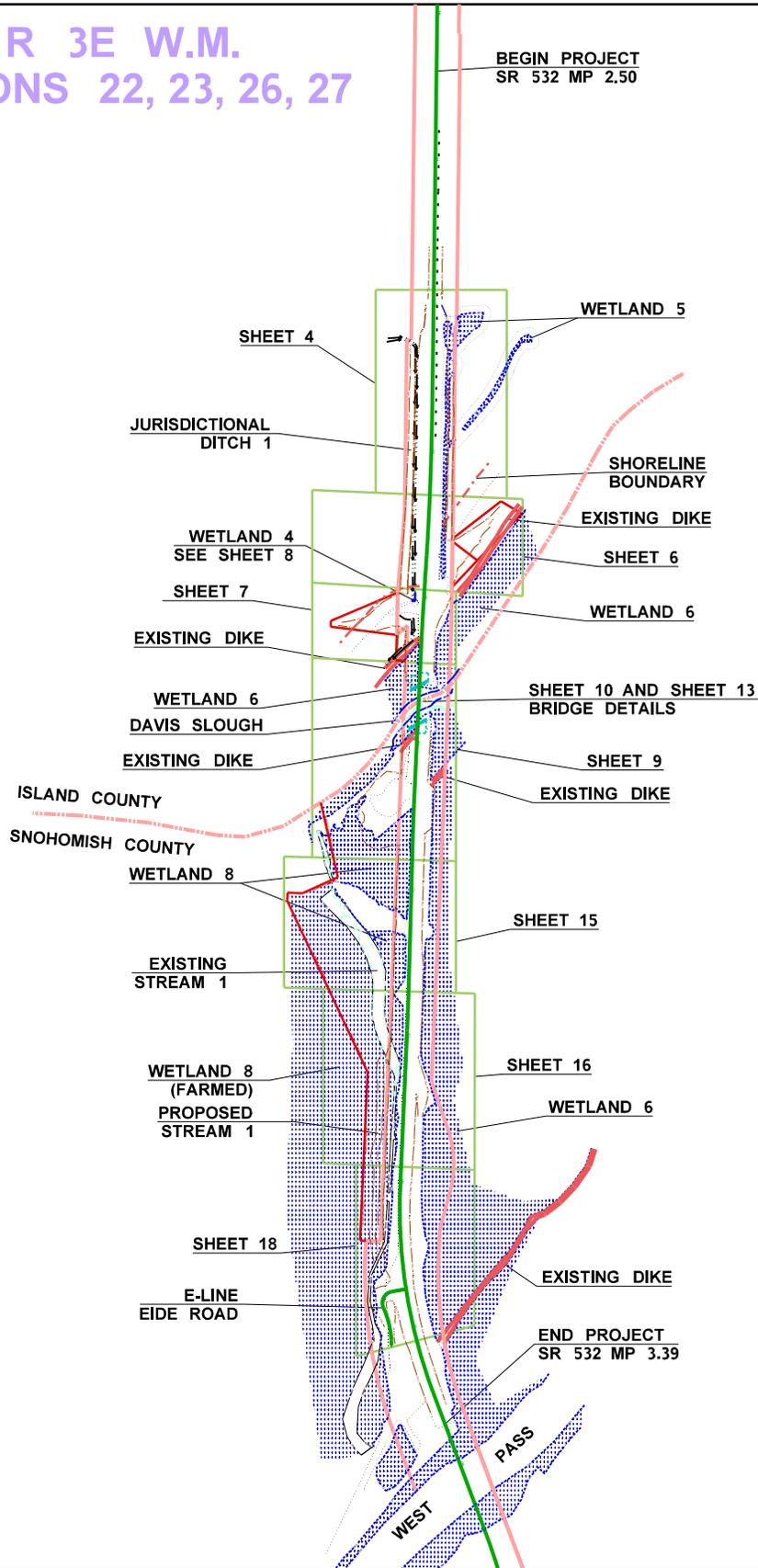
DATE: 02-15-2013



Washington State
Department of Transportation

SHEET: 2 OF: 18

T. 32N. R. 3E W.M.
SECTIONS 22, 23, 26, 27



PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY /FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 /91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH

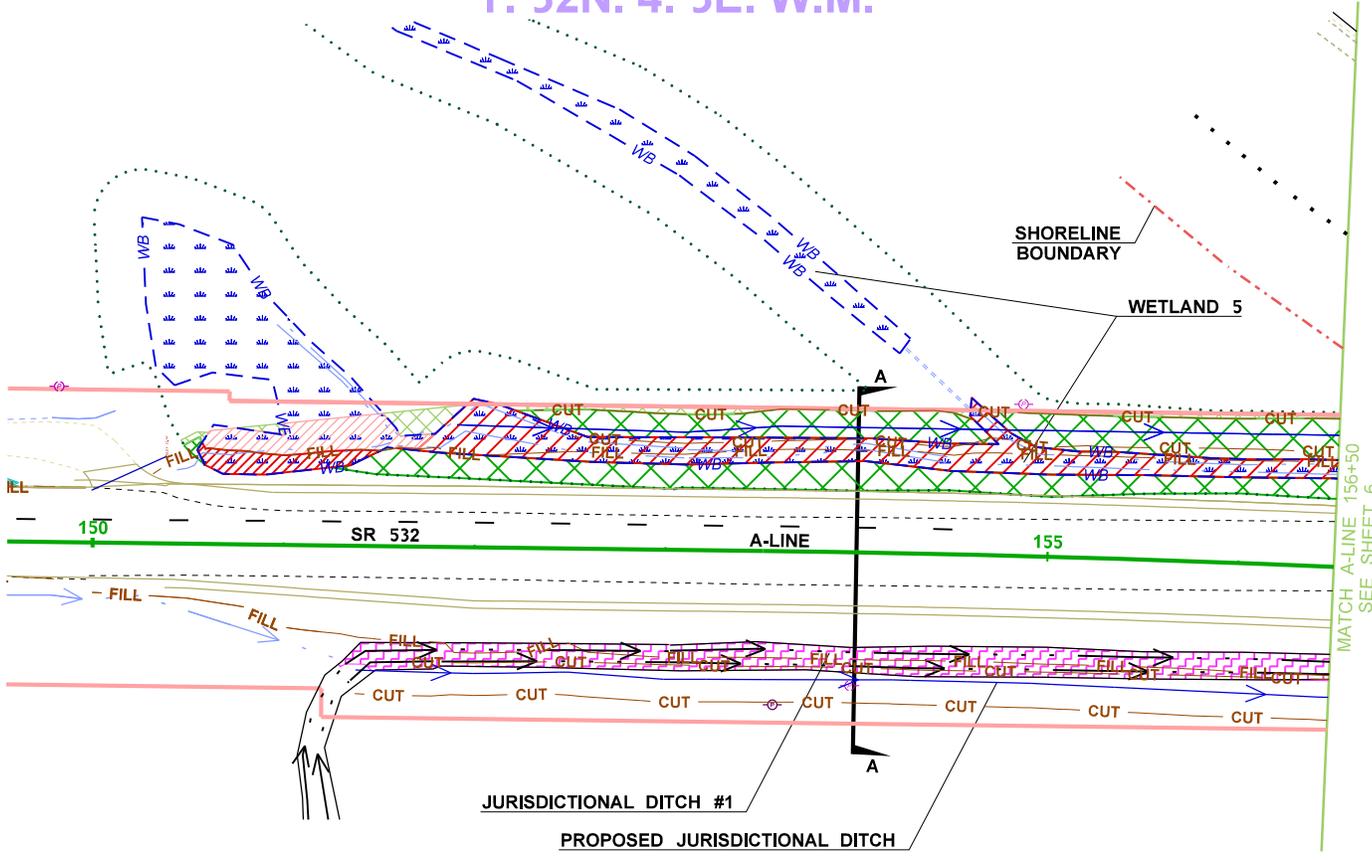
DATE: 02-15-2013



Washington State
Department of Transportation

SHEET: 3 OF: 18

T. 32N. 4. 3E. W.M.



MATCH A-LINE 156+50
SEE SHEET 6

PERMANENT JURISDICTIONAL DITCH 1 IMPACTS		
BEGIN	A 151+33 RT	A 160+66 RT
END	A 160+19 RT	A 161+95 RT
AREA =	12024.6 S.F.	2016.7 S.F.
	0.28 ACRES	0.05 ACRES
VOLUME =	1445 C.Y.	239 C.Y.



1. SEE CROSS SECTION A-A ON SHEET 4.

PROPOSED WETLAND IMPACTS		
SQ. FT. (ACRES)		
AQUATIC SITE	5	IMPACT LEGEND
COUNTY	ISLAND	
DOE CATEGORY	III	
WETLAND AREA	23371 (0.54)	
PERM. WETLAND IMPACT PERCENTAGE	42.3%	
PERM. WETLAND IMPACT	10833 (0.25)	
TEMP. WETLAND IMPACT	1571 (0.04)	
PERM. WETLAND BUFFER IMPACT	17991 (0.41)	
TEMP. WETLAND BUFFER IMPACT	1705 (0.04)	

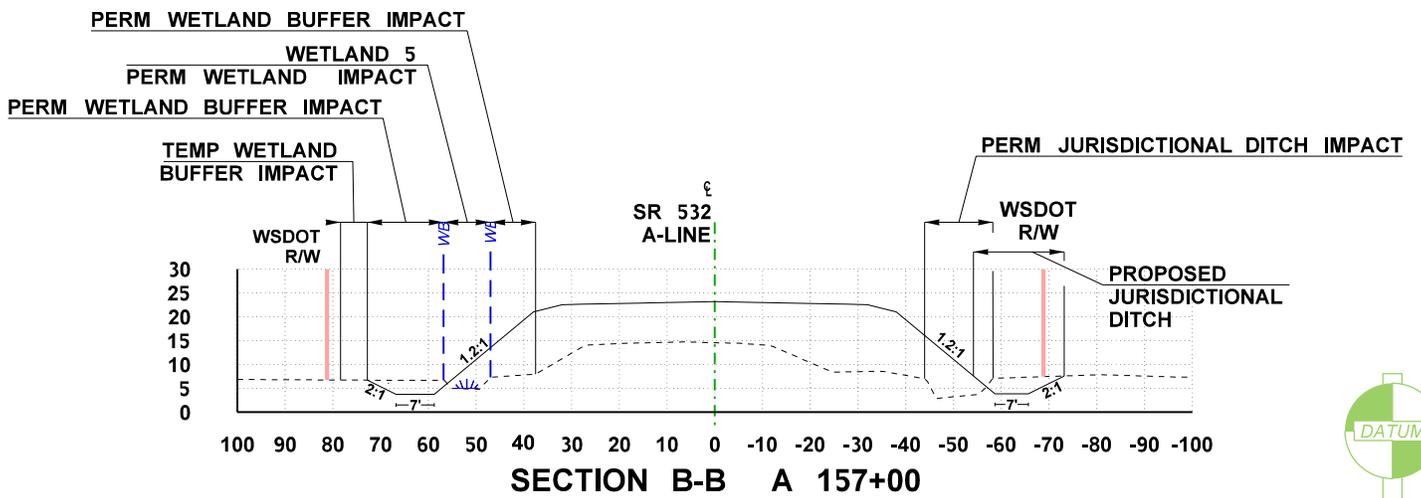
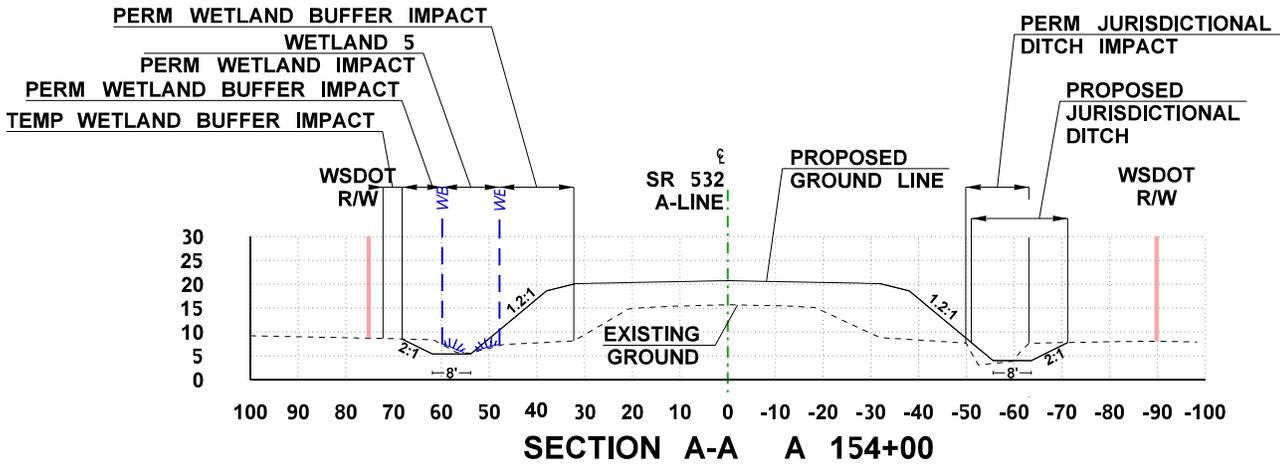
LEGEND			
	WSDOT RIGHT OF WAY		NEW DITCH CENTERLINE
	CENTERLINE		WETLAND BOUNDARY
	EDGE OF NEW PAVEMENT		EXISTING JURISDICTIONAL DITCH
	EDGE OF NEW GRAVEL		WETLAND BUFFER
	EXISTING PAVED EDGE		STREAM BUFFER
	EXISTING CULVERT		SHORELINE BOUNDARY
	EXISTING DITCH (FLOW DIRECTION)		CUT LINE
	EXISTING DITCH (NO DIRECTION)		FILL LINE
	NEW POWER POLE		
	EXISTING POWER POLE		

PURPOSE:	SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE:	NWS-2010-968
PROPOSED:	SAFETY /FLOOD PREVENTION	APPLICANT:	WSDOT
LOCATION:	SR532 MP 2.50 TO MP 3.39	COUNTY:	ISLAND; SNOHOMISH
DATUM:	NAD 83 /91 MLLW=0'	NEAR:	STANWOOD
ADJACENT PROPERTY OWNERS:	SEE ATTACHED	WATER BODY:	DAVIS SLOUGH
		DATE:	02-15-2013



**Washington State
Department of Transportation**

SHEET: 4 OF: 18



PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH
DATE: 02-15-2013	

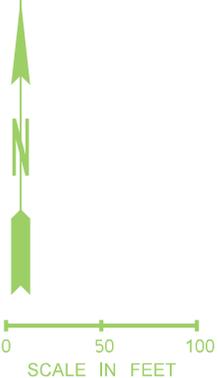
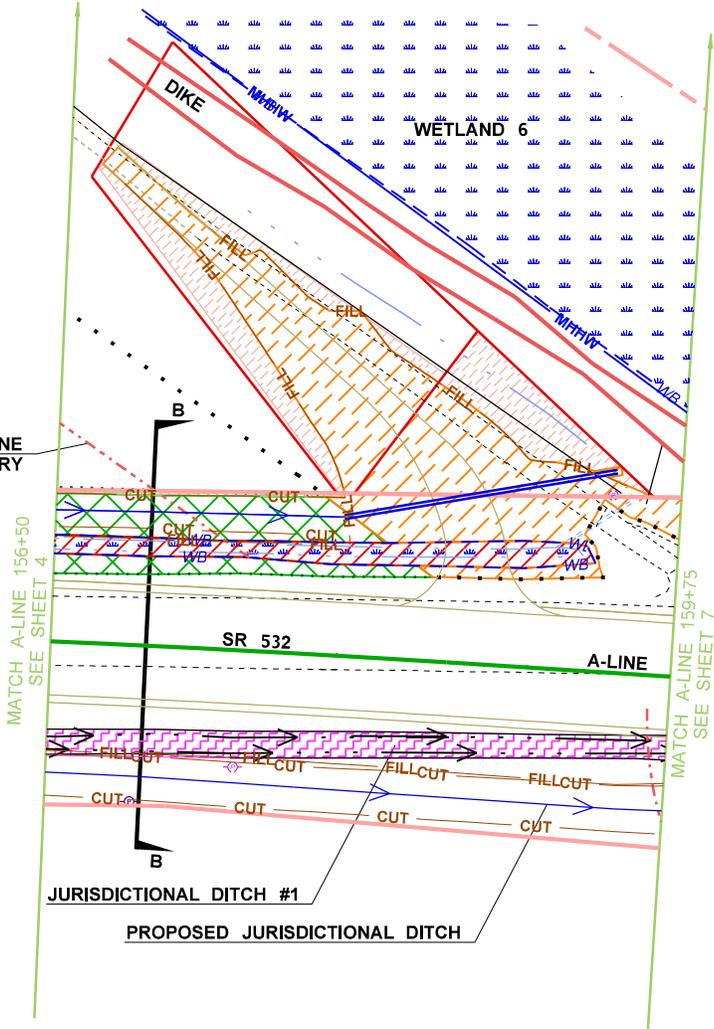


**Washington State
Department of Transportation**

SHEET: 5 OF: 18

T. 32N. 4. 3E. W.M.

PERMANENT JURISDICTIONAL DITCH 1 IMPACTS		
BEGIN	A 151+33 RT	A 160+66 RT
END	A 160+19 RT	A 161+95 RT
AREA =	12024.6 S.F.	2016.7 S.F.
	0.28 ACRES	0.05 ACRES
VOLUME =	1445 C.Y.	239 C.Y.



PROPOSED WETLAND IMPACTS					
SQ. FT. (ACRES)					
AQUATIC SITE	5		6		IMPACT LEGEND
COUNTY	ISLAND	ISLAND	SNOH		
DOE CATEGORY	III	I	I		
WETLAND AREA	23371 (0.54)	*(30)	*(70)		
PERM. WETLAND IMPACT PERCENTAGE	42.3%	<0.1%	<0.1%		
PERM. WETLAND IMPACT	10833 (0.25)	4925 (0.11)	1290 (0.03)		
TEMP. WETLAND IMPACT	1571 (0.04)	3949 (0.09)	8446 (0.19)		
PERM. WETLAND BUFFER IMPACT	17991 (0.41)	0	0		
TEMP. WETLAND BUFFER IMPACT	1705 (0.04)	0	0		
PERM. STREAM BUFFER IMPACT	N/A	28264 (0.65)	20711 (0.48)		
TEMP. STREAM BUFFER IMPACT	N/A	9394 (0.22)	3677 (0.08)		
* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO					

LEGEND

- NEW DITCH CENTERLINE
- WSDOT RIGHT OF WAY
- WSDOT CONSTRUCTION EASEMENT
- CENTERLINE
- EDGE OF NEW PAVEMENT
- EDGE OF NEW GRAVEL
- EXISTING PAVED EDGE
- EXISTING GRAVEL EDGE
- EXISTING CULVERT
- EXISTING DITCH (NO DIRECTION)
- NEW CULVERT
- EXISTING DIKE
- SHORELINE BOUNDARY
- MEAN HIGHER HIGH WATER MARK
- WETLAND BOUNDARY
- EXISTING JURISDICTIONAL DITCH
- WETLAND BUFFER
- STREAM BUFFER
- CUT LINE
- FILL LINE
- EXISTING POWER POLE
- NEW POWER POLE

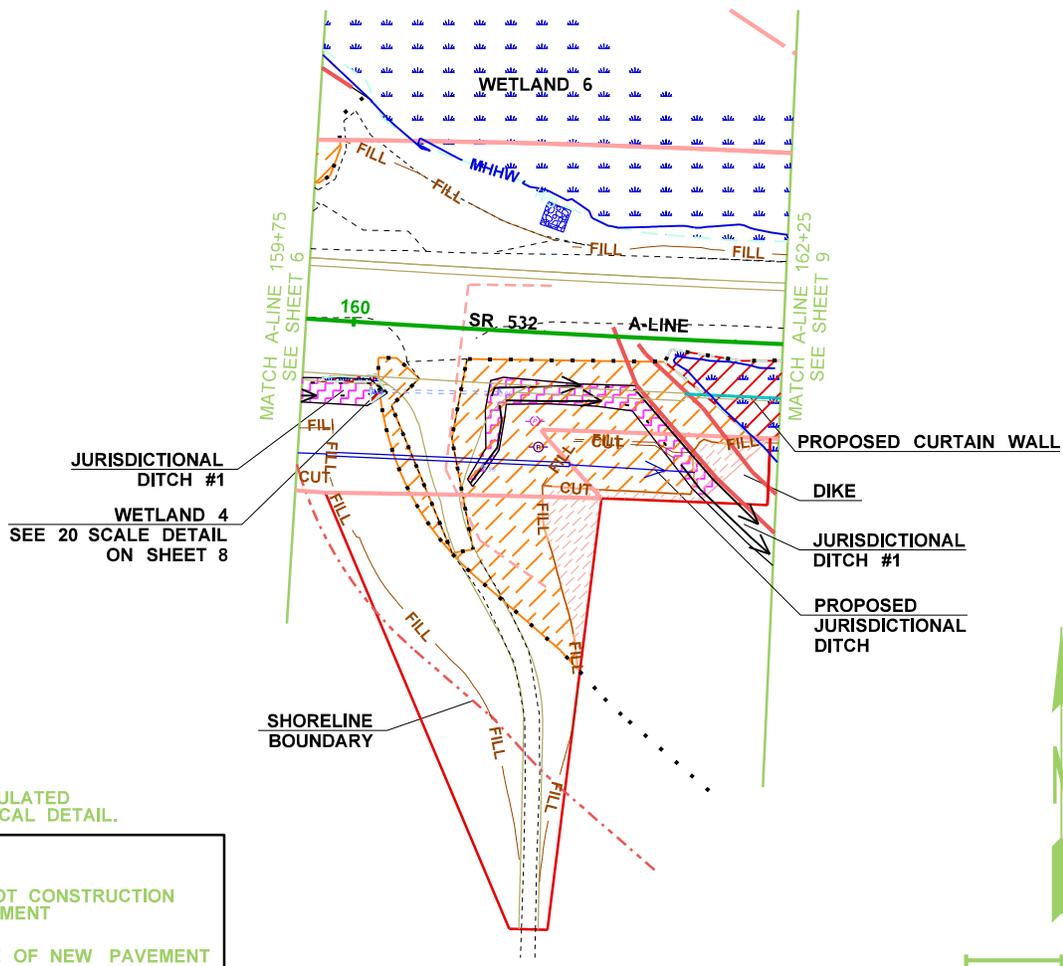
1. SEE CROSS SECTION B-B ON SHEET 4.

PURPOSE:	SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE:	NWS-2010-968
PROPOSED:	SAFETY /FLOOD PREVENTION	APPLICANT:	WSDOT
LOCATION:	SR532 MP 2.50 TO MP 3.39	COUNTY:	ISLAND; SNOHOMISH
DATUM:	NAD 83 /91 MLLW=0'	NEAR:	STANWOOD
ADJACENT PROPERTY OWNERS:	SEE ATTACHED	WATER BODY:	DAVIS SLOUGH
		DATE:	02-15-2013

Washington State
Department of Transportation

SHEET: 6 OF: 18

T. 32N. 4. 3E. W.M.



1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.

LEGEND

	WSDOT CONSTRUCTION EASEMENT
	EDGE OF NEW PAVEMENT
	EDGE OF NEW GRAVEL
	EXISTING PAVED EDGE
	EXISTING GRAVEL EDGE
	EXISTING CULVERT
	NEW DITCH
	NEW CULVERT
	JURISDICTIONAL DITCH
	SHORELINE BOUNDARY
	MEAN HIGHER HIGH WATER MARK
	WETLAND BOUNDARY
	WETLAND BUFFER
	STREAM BUFFER
	CUT LINE
	FILL LINE
	NEW POWER POLE
	EXISTING POWER POLE
	QUARRY SPALL PAD

PROPOSED FILL BELOW MHHW		PROPOSED WETLAND IMPACTS				
		SQ. FT. (ACRES)				IMPACT LEGEND
AQUATIC SITE	WETLAND 6	4	6			
COUNTY		ISLAND	ISLAND	SNOH		
DOE CATEGORY		IV	I	I		
WETLAND AREA		134 (<0.01)	*(30)	*(70)		
PERM. WETLAND IMPACT PERCENTAGE		100.0%	<0.1%	<0.1%		
PERM. WETLAND IMPACT		134 (<0.01)	4925 (0.11)	1290 (0.03)		
TEMP. WETLAND IMPACT		0	3949 (0.09)	8446 (0.19)		
PERM. STREAM BUFFER IMPACT		N/A	28266 (0.65)	20711 (0.48)		
TEMP. STREAM BUFFER IMPACT		N/A	9394 (0.22)	3677 (0.08)		
* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO.						
PERMANENT JURISDICTIONAL DITCH 1 IMPACTS						
BEGIN	A 151+33 RT	A 160+66 RT				
END	A 160+19 RT	A 161+95 RT				
AREA =	12024.6 S.F.	2016.7 S.F.				
	0.28 ACRES	0.05 ACRES				
VOLUME =	1445 C.Y.	239 C.Y.				

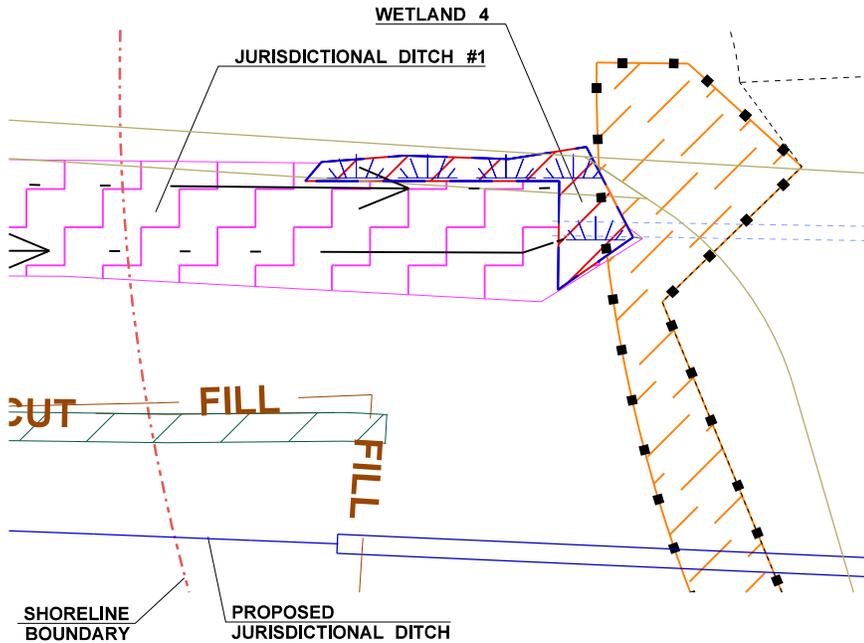
PURPOSE:	SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE:	NWS-2010-968
PROPOSED:	SAFETY /FLOOD PREVENTION	APPLICANT:	WSDOT
LOCATION:	SR532 MP 2.50 TO MP 3.39	COUNTY:	ISLAND; SNOHOMISH
DATUM:	NAD 83 /91 MLLW=0'	NEAR:	STANWOOD
ADJACENT PROPERTY OWNERS:	SEE ATTACHED	WATER BODY:	DAVIS SLOUGH
		DATE:	02-15-2013



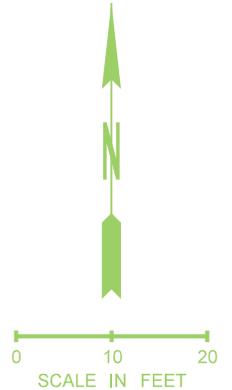
**Washington State
Department of Transportation**

SHEET: 7 OF: 18

T. 32N. 4. 3E. W.M.



**WETLAND 4
20 SCALE DETAIL**



LEGEND

- EDGE OF NEW PAVEMENT
- EDGE OF NEW GRAVEL
- - - - - EXISTING PAVED EDGE
- - - - - EXISTING GRAVEL EDGE
- - - - - EXISTING CULVERT
- > NEW DITCH
- > NEW CULVERT
- > JURISDICTIONAL DITCH
- / \ / \ - WB - WETLAND BOUNDARY
- CUT - CUT
- FILL - FILL
- STREAM BUFFER

PERMANENT JURISDICTIONAL DITCH 1 IMPACTS		
BEGIN	A 151+33 RT	A 160+66 RT
END	A 160+19 RT	A 161+95 RT
AREA =	12024.6 S.F.	2016.7 S.F.
	0.28 ACRES	0.05 ACRES
VOLUME =	1445 C.Y.	239 C.Y.

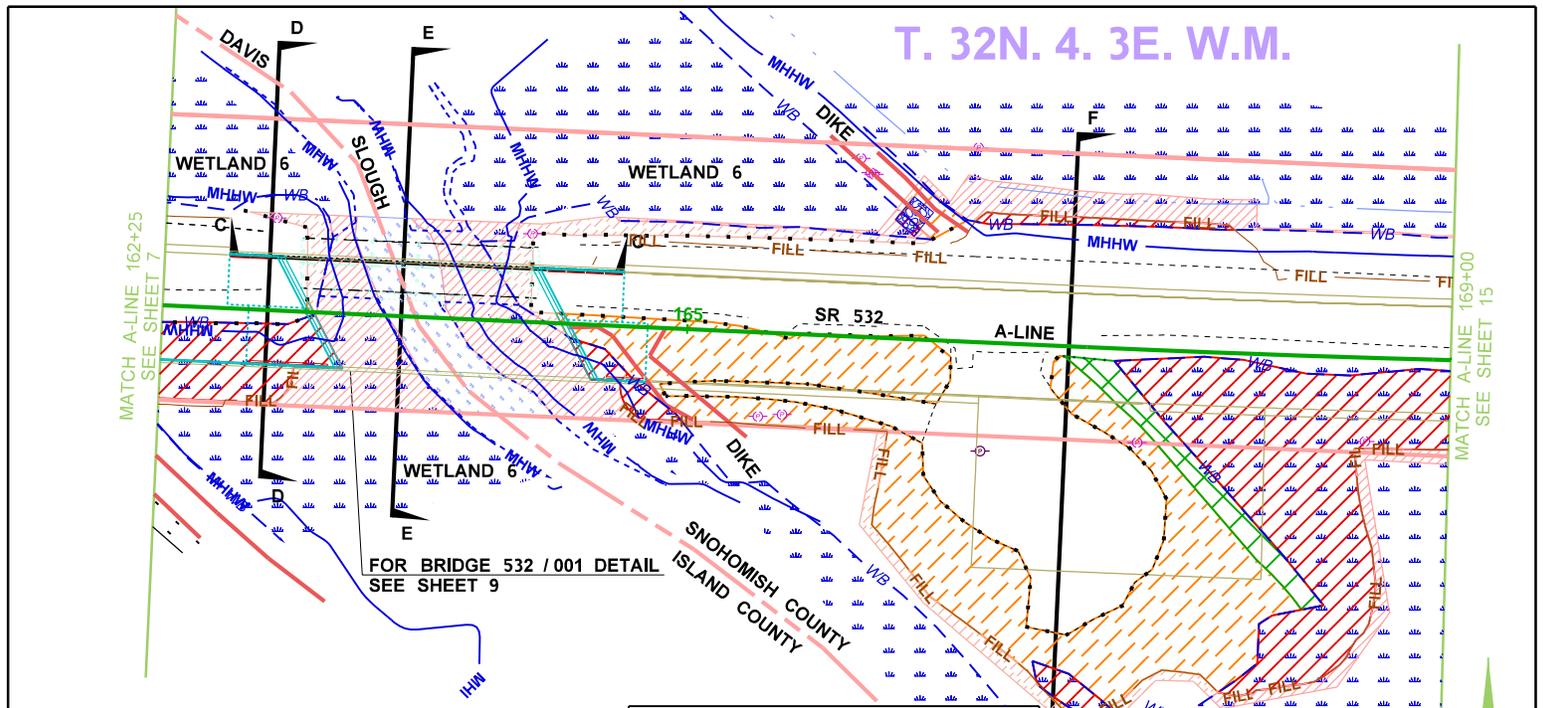
PROPOSED WETLAND IMPACTS					
SQ. FT. (ACRES)					
AQUATIC SITE	4		6		IMPACT LEGEND
COUNTY	ISLAND	ISLAND	SNOH		
DOE CATEGORY	IV	I	I		
WETLAND AREA	134 (<0.01)	*(30)	*(70)		
PERM. WETLAND IMPACT PERCENTAGE	100.0%	<0.1%	<0.1%		
PERM. WETLAND IMPACT	134 (<0.01)	4925 (0.11)	1290 (0.03)		
TEMP. WETLAND IMPACT	0	3949 (0.09)	8446 (0.19)		
PERM. STREAM BUFFER IMPACT	N/A	28266 (0.65)	20711 (0.48)		
TEMP. STREAM BUFFER IMPACT	N/A	9394 (0.22)	3677 (0.08)		
* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO.					

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH
DATE: 02-15-2013	

**Washington State
Department of Transportation**

SHEET: 8 OF: 18

T. 32N. 4. 3E. W.M.



FOR BRIDGE 532 / 001 DETAIL
SEE SHEET 9

PROPOSED WETLAND IMPACTS
SQ. FT. (ACRES)

AQUATIC SITE	6		8****		MUDFLAT**		IMPACT LEGEND
	ISLAND	SNOH	SNOH	ISLAND	SNOH		
DOE CATEGORY	I	I	II				
WETLAND AREA	*(30)	*(70)	*(100)	N/A	N/A		
PERM. WETLAND IMPACT PERCENTAGE	<0.1%	<0.1%	1.8%	N/A	N/A		
PERM. WETLAND IMPACT	4925 (0.11)	1290 (0.03)	42340 (0.97)	N/A	N/A	[Red Hatched]	
PERM. WETLAND-FARMED IMPACT	N/A	N/A	28839 (0.66)	N/A	N/A	[Red Hatched]	
TEMP. WETLAND IMPACT	3949 (0.09)	8446 (0.19)	6389 (0.15)	N/A	N/A	[Red Hatched]	
TEMP. WETLAND-FARMED IMPACT	N/A	N/A	84274 (1.93)	N/A	N/A	[Red Hatched]	
TEMP. MUDFLAT IMPACT	N/A	N/A	N/A	1646 (0.04)	3509 (0.08)	[Red Hatched]	
PERM. WETLAND BUFFER IMPACT	0	0	3789 (0.09)	N/A	N/A	[Green Cross-hatched]	
TEMP. WETLAND BUFFER IMPACT	0	0	309 (<0.01)	N/A	N/A	[Green Cross-hatched]	
PERM. STREAM BUFFER IMPACT	28266 (0.65)	20711 (0.48)	24059 (0.55)	N/A	N/A	[Orange Diagonal]	
TEMP. STREAM BUFFER IMPACT	9394 (0.22)	3677 (0.08)	8162 (0.19)	N/A	N/A	[Orange Diagonal]	
COLUMN REMOVAL***	7 (<0.01)	16 (<0.01)	N/A	7 (<0.01)	9 (<0.01)	[Circle]	

PROPOSED FILL BELOW MHHW

AQUATIC SITE	WETLAND 6	BRIDGE COLUMN REMOVAL
SQUARE FEET (ACRES)	8694 (0.20)	39 (<0.01)
CUBIC YARDS EXCAVATION	108	55
CUBIC YARDS FILL	2123	55

LEGEND

- [Red Solid Line] WSDOT RIGHT OF WAY
- [Green Solid Line] CENTERLINE
- [Red Dashed Line] COUNTY LINE
- [Green Dashed Line] EDGE OF NEW PAVEMENT
- [Green Dotted Line] EDGE OF NEW GRAVEL
- [Black Dotted Line] EXISTING BRIDGE EDGE
- [Black Dashed Line] EXISTING PAVED EDGE
- [Red Solid Line] EXISTING DIKE
- [Blue Dashed Line] MUD FLAT BOUNDARY
- [Blue Solid Line] MHHW
- [Blue Solid Line] MHW
- [Blue Dashed Line] WB
- [Blue Dotted Line] WETLAND BOUNDARY
- [Black Dotted Line] STREAM BUFFER
- [Red Dashed Line] FILL
- [Orange Dashed Line] FILL
- [Green Dotted Line] PROPOSED BRIDGE LIMITS
- [Green Dotted Line] PROPOSED GEOSYNTHETIC WALL WITH CONCRETE FACIA
- [Green Dotted Line] PROPOSED ABUTMENT WALL
- [Green Circle] EXISTING BRIDGE COLUMN
- [Green Circle with P] EXISTING POWER POLE
- [Green Circle with P] NEW POWER POLE



1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.
2. SEE CROSS SECTION C-C ON SHEET 11.
3. SEE CROSS SECTION D-D ON SHEET 11.
4. SEE CROSS SECTION E-E ON SHEET 11.
5. SEE SHADING IMPACTS FOR PROPOSED BRIDGE ON SHEET 13.
6. SEE SHADING IMPACT DETAIL FOR PROPOSED BRIDGE ON SHEET 14.

* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO
 ** ISLAND COUNTY MUDFLAT ASSOCIATED WITH DAVIS SLOUGH, SNOHOMISH COUNTY MUDFLAT ASSOCIATED WITH DAVIS SLOUGH AND STREAM 1.
 *** FILL REMOVED FROM WETLAND 6 AND MUDFLAT.
 **** STREAM 1 IMPACTS ARE INCLUDED IN WETLAND 8 IMPACTS.

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY / FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 / 91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

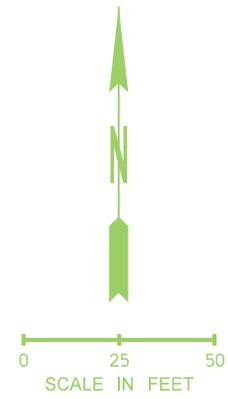
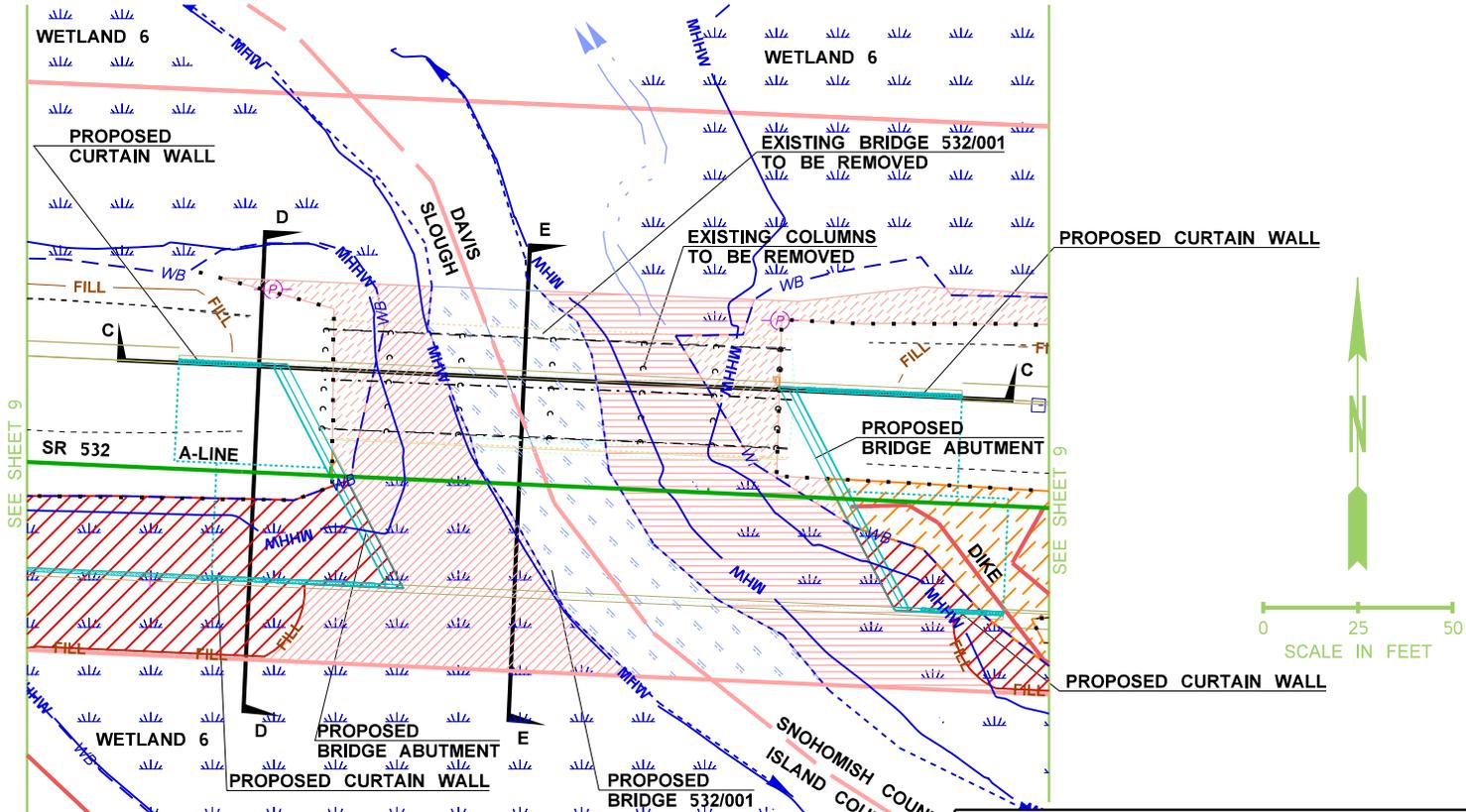
REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH
 DATE: 02-15-2013

Washington State
Department of Transportation

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BRIDGE 532 / 001 DETAIL



PROPOSED WETLAND IMPACTS					
SQ. FT. (ACRES)					
AQUATIC SITE	6		MUDFLAT**		IMPACT LEGEND
COUNTY	ISLAND	SNOH	ISLAND	SNOH	
DOE CATEGORY	I	I			
WETLAND AREA	*(30)	*(70)	N/A	N/A	
PERM. WETLAND IMPACT PERCENTAGE	<0.1%	<0.1%	N/A	N/A	
PERM. WETLAND IMPACT	4925 (0.11)	1290 (0.03)	N/A	N/A	
TEMP. WETLAND IMPACT	3949 (0.09)	8446 (0.19)	N/A	N/A	
TEMP. MUDFLAT IMPACT	N/A	N/A	1646 (0.04)	3509 (0.08)	
PERM. STREAM BUFFER IMPACT	28266 (0.65)	20711 (0.48)	N/A	N/A	
TEMP. STREAM BUFFER IMPACT	9394 (0.22)	3677 (0.08)	N/A	N/A	
COLUMN REMOVAL***	7 (<0.01)	16 (<0.01)	7 (<0.01)	9 (<0.01)	

* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO
 ** ISLAND COUNTY MUDFLAT ASSOCIATED WITH DAVIS SLOUGH, SNOHOMISH COUNTY MUDFLAT ASSOCIATED WITH DAVIS SLOUGH AND STREAM 1.
 *** FILL REMOVED FROM WETLAND 6 AND MUDFLAT.

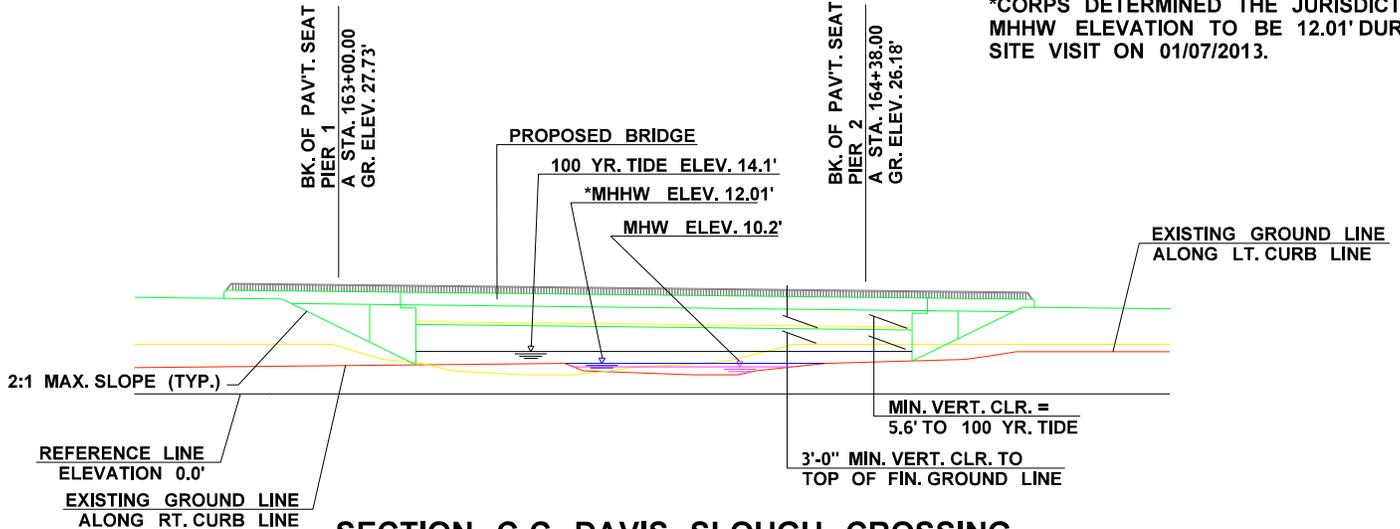
LEGEND

- WSDOT RIGHT OF WAY
- CENTERLINE
- - - - - COUNTY LINE
- EDGE OF NEW PAVEMENT
- EDGE OF NEW GRAVEL
- - - - - EXISTING BRIDGE EDGE
- - - - - EXISTING PAVED EDGE
- EXISTING DIKE
- - - - - MUD FLAT BOUNDARY
- MHHW MEAN HIGHER HIGH WATER MARK
- MHW MEAN HIGH WATER MARK
- ||||| WB WETLAND BOUNDARY
- - - - - STREAM BUFFER
- FILL FILL LINE
- - - - - PROPOSED BRIDGE LIMITS
- PROPOSED GEOSYNTHETIC WALL WITH CONCRETE FACIA
- PROPOSED ABUTMENT WALL
- EXISTING BRIDGE COLUMN
- (P) EXISTING POWER POLE

1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.
2. SEE CROSS SECTION C-C ON SHEET 11.
3. SEE CROSS SECTION D-D ON SHEET 11.
4. SEE CROSS SECTION E-E ON SHEET 11.
5. SEE SHADING IMPACTS FOR PROPOSED BRIDGE ON SHEET 13.
6. SEE SHADING IMPACT DETAIL FOR PROPOSED BRIDGE ON SHEET 14.

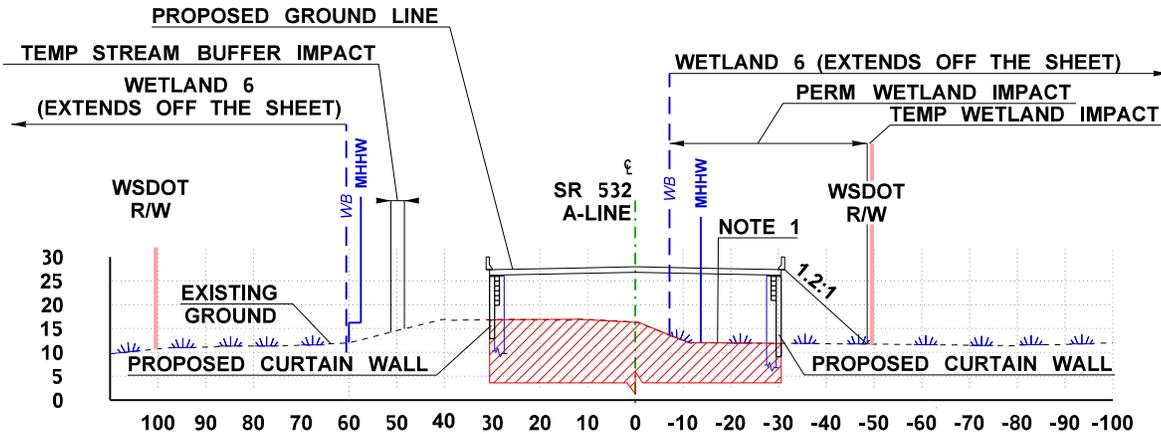
PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968	 Washington State Department of Transportation
PROPOSED: SAFETY / FLOOD PREVENTION	APPLICANT: WSDOT	
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH	
DATUM: NAD 83 / 91 MLLW=0'	NEAR: STANWOOD	
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH	
	DATE: 02-15-2013	
		SHEET: 10 OF: 18

*CORPS DETERMINED THE JURISDICTIONAL MHHW ELEVATION TO BE 12.01' DURING SITE VISIT ON 01/07/2013.



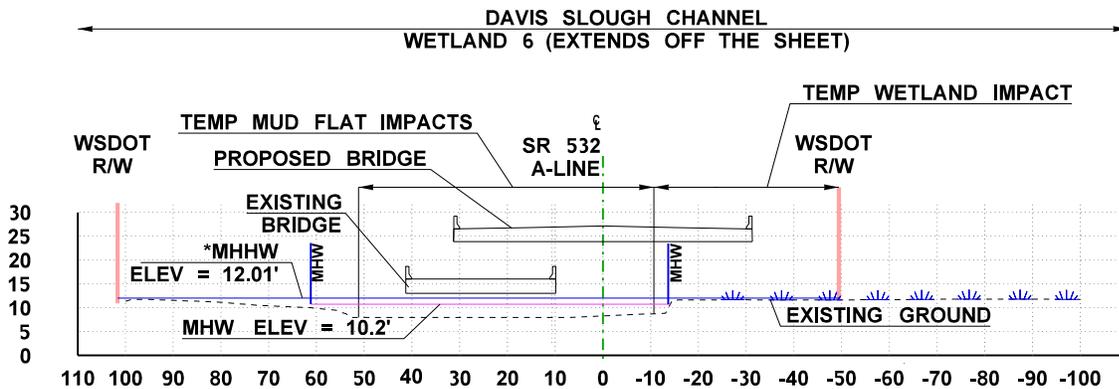
SECTION C-C DAVIS SLOUGH CROSSING

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF BRIDGE DECK ON A LINE AND ARE EQUAL TO PROFILE GRADE. SEE STD. PLAN A-50.20-01 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.



SECTION D-D A 162+80

NOTE 1: PILES FOR SOIL STABILIZATION



SECTION E-E A 163+50



MLLW=0'

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY /FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 /91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH

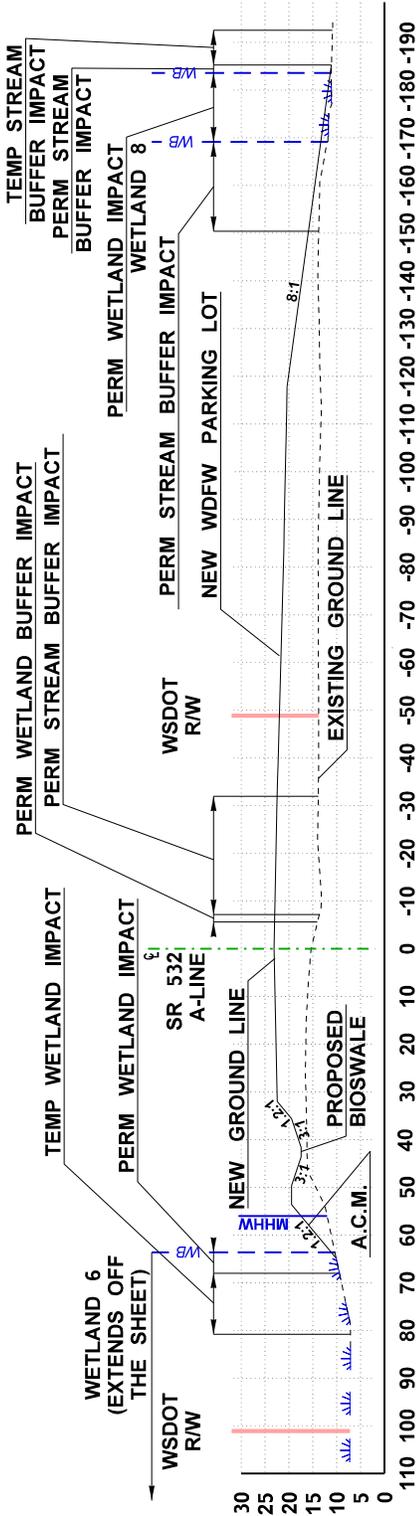
DATE: 02-15-2013



Washington State
 Department of Transportation

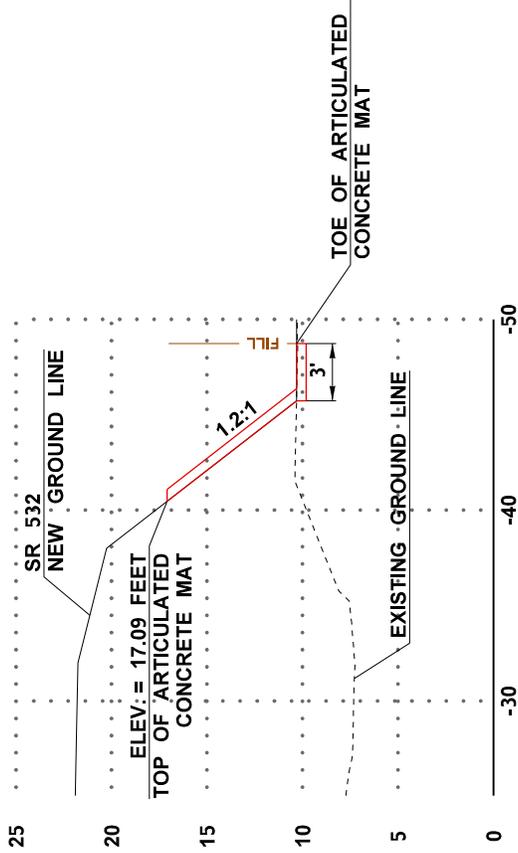
SHEET: 11 OF: 18

SEE SHEET 8



SECTION F-F A 167+00

SEE THIS SHEET FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.



ARTICULATED CONCRETE MAT TYPICAL DETAIL

- A 161+96.5 RT TO A 162+86.7 RT
- A 164+66.2 RT TO A 166+122 RT
- A 166+44.6 LT TO A 168+00.5 LT
- A 168+43.4 RT TO A 184+80.3 RT



MLLW=0'

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY /FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 /91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

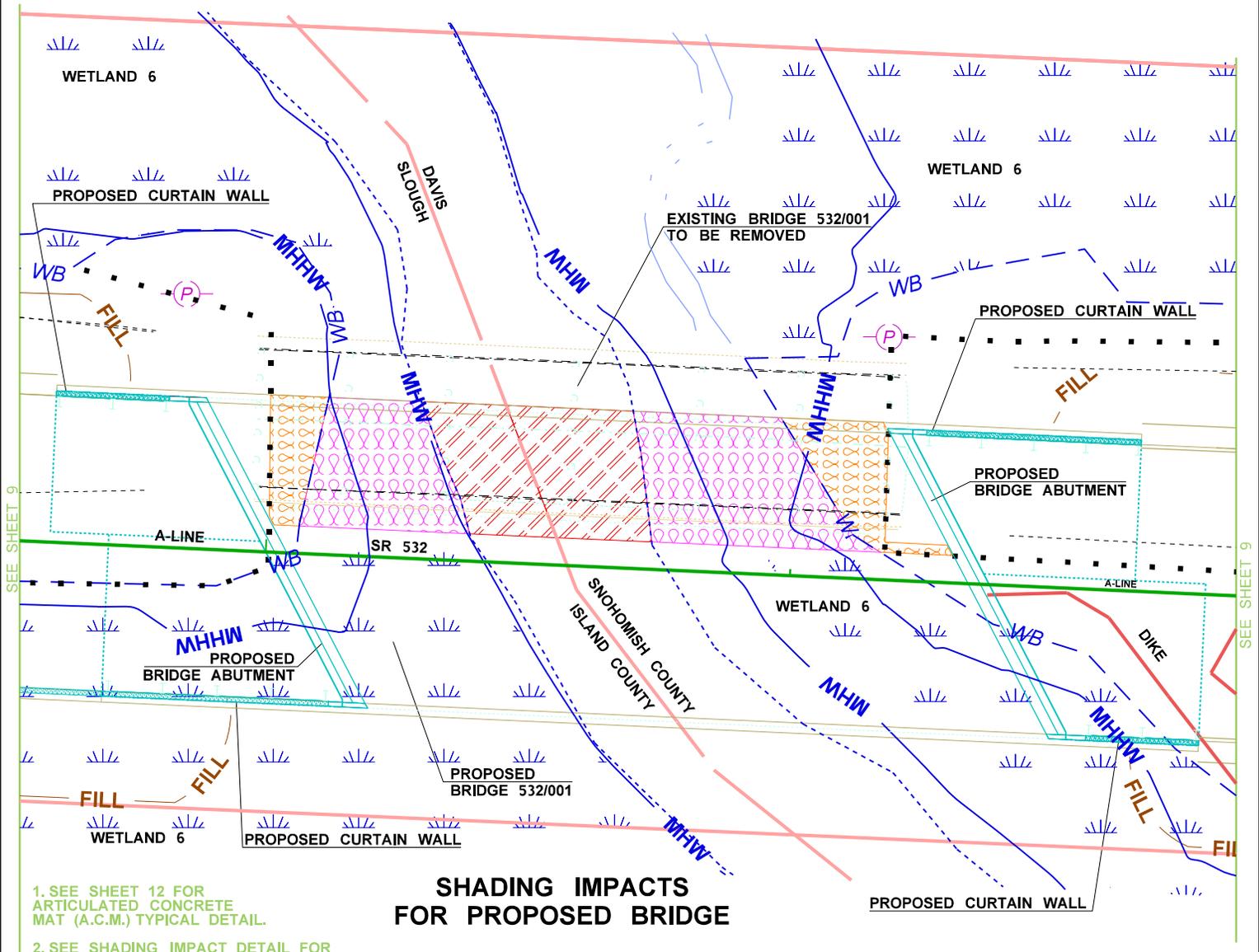
REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH

DATE: 02-15-2013



SHEET: 12 OF: 18

T. 32N. 4. 3E. W.M.



SHADING IMPACTS FOR PROPOSED BRIDGE

- SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.
- SEE SHADING IMPACT DETAIL FOR PROPOSED BRIDGE ON SHEET 14.



LEGEND

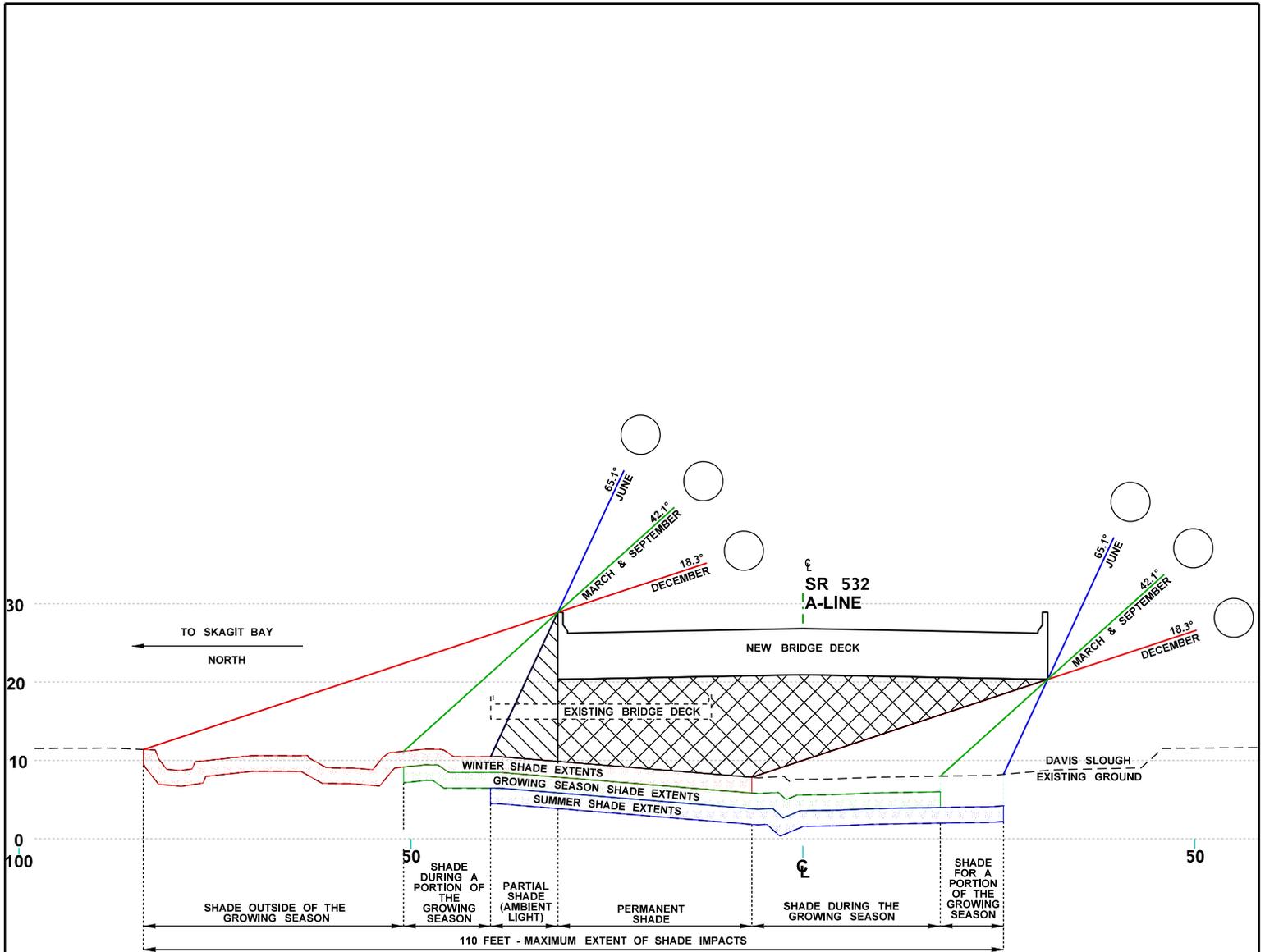
	WSDOT RIGHT OF WAY		MHHW	MEAN HIGHER HIGH WATER MARK
	CENTERLINE		MHW	MEAN HIGH WATER MARK
	COUNTY LINE		WB	WETLAND BOUNDARY
	EDGE OF NEW PAVEMENT			STREAM BUFFER
	EDGE OF NEW GRAVEL		FILL	FILL LINE
	EXISTING BRIDGE EDGE			PROPOSED BRIDGE LIMITS
	EXISTING PAVED EDGE			PROPOSED GEOSYNTHETIC WALL WITH CONCRETE FACIA
	EXISTING DIKE			PROPOSED ABUTMENT WALL
	MUD FLAT BOUNDARY			EXISTING BRIDGE COLUMN
				EXISTING POWER POLE

PROPOSED SHADING INDIRECT IMPACTS			
SQ. FT. (ACRES)			
NAME	WETLAND 6		IMPACT LEGEND
	COUNTY	ISLAND	
DOE CATEGORY	I	I	
PERM. WETLAND SHADING IMPACT (DAVIS SLOUGH)	626 (0.01)	849 (0.02)	
PERM. STREAM BUFFER SHADING IMPACT	208 (<0.01)	323 (0.01)	
PERM. MUD FLAT SHADING IMPACT	400 (<0.01)	529 (<0.01)	

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH
	DATE: 02-15-2013

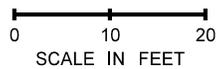
Washington State
Department of Transportation

SHEET: 13 OF: 18



SHADING IMPACT DETAIL FOR PROPOSED BRIDGE

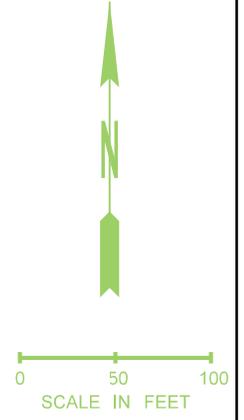
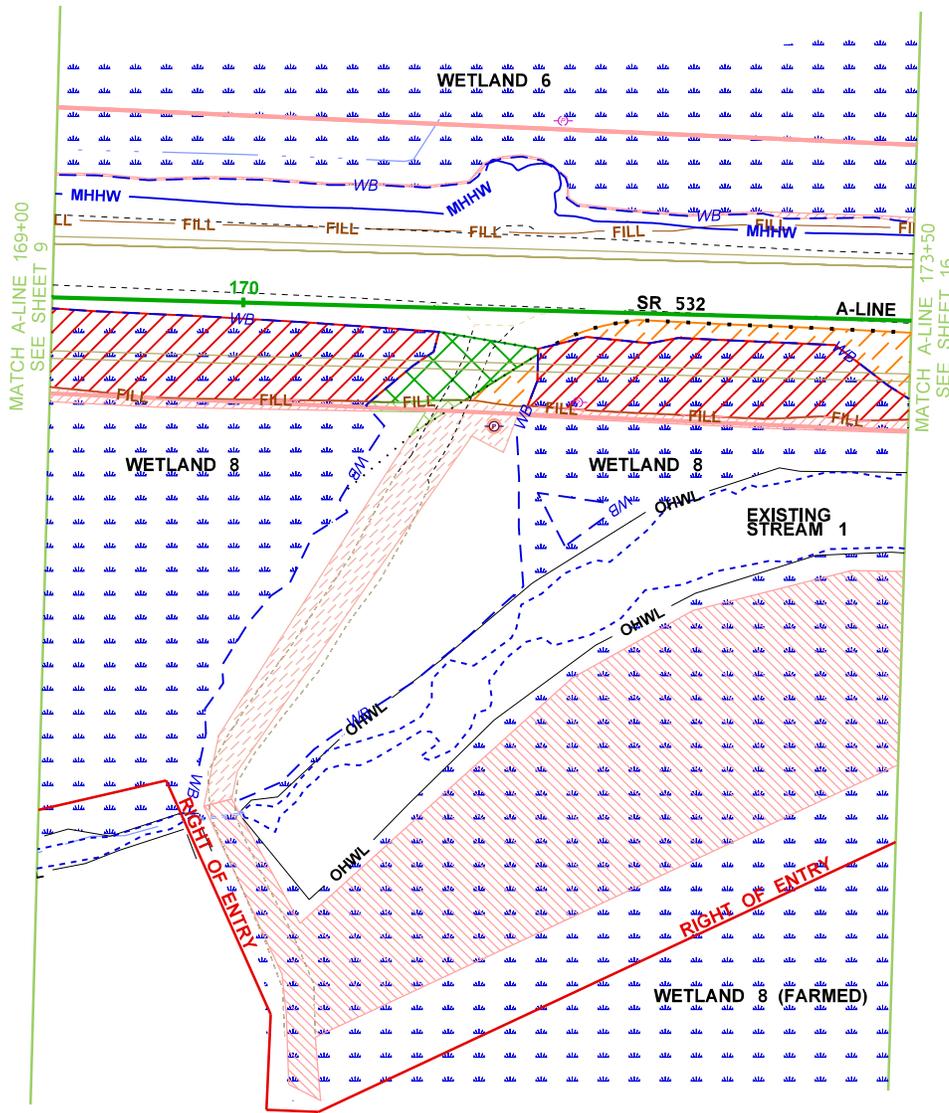
12:00 PM



1. SEE SHADING IMPACTS FOR PROPOSED BRIDGE ON SHEET 13.

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968	 Washington State Department of Transportation
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT	
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH	
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD	
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH	
	DATE: 02-15-2013	
		SHEET: 14 OF: 18

T. 32N. 4. 3E. W.M.



PROPOSED FILL BELOW MHHW	
AQUATIC SITE	WETLAND 6
SQUARE FEET (ACRES)	8694 (0.20)
CUBIC YARDS EXCAVATION	108
CUBIC YARDS FILL	2123

PROPOSED WETLAND IMPACTS				
	SQ. FT. (ACRES)			
AQUATIC SITE	6	8****		IMPACT LEGEND
COUNTY	ISLAND	SNOH	SNOH	
DOE CATEGORY	I	I	II	
WETLAND AREA	*(30)	*(70)	*(100)	
PERM. WETLAND IMPACT PERCENTAGE	<0.1%	<0.1%	1.8%	
PERM. WETLAND IMPACT	4925 (0.11)	1290 (0.03)	42340 (0.97)	
PERM. WETLAND-FARMED IMPACT	N/A	N/A	28839 (0.66)	
TEMP. WETLAND IMPACT	3949 (0.09)	8446 (0.19)	6389 (0.15)	
TEMP. WETLAND-FARMED IMPACT	N/A	N/A	84274 (1.93)	
PERM. WETLAND BUFFER IMPACT	0	0	3789 (0.09)	
TEMP. WETLAND BUFFER IMPACT	0	0	309 (<0.01)	
PERM. STREAM BUFFER IMPACT	28266 (0.65)	20711 (0.48)	24059 (0.55)	
TEMP. STREAM BUFFER IMPACT	9394 (0.22)	3677 (0.08)	8162 (0.19)	

1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.

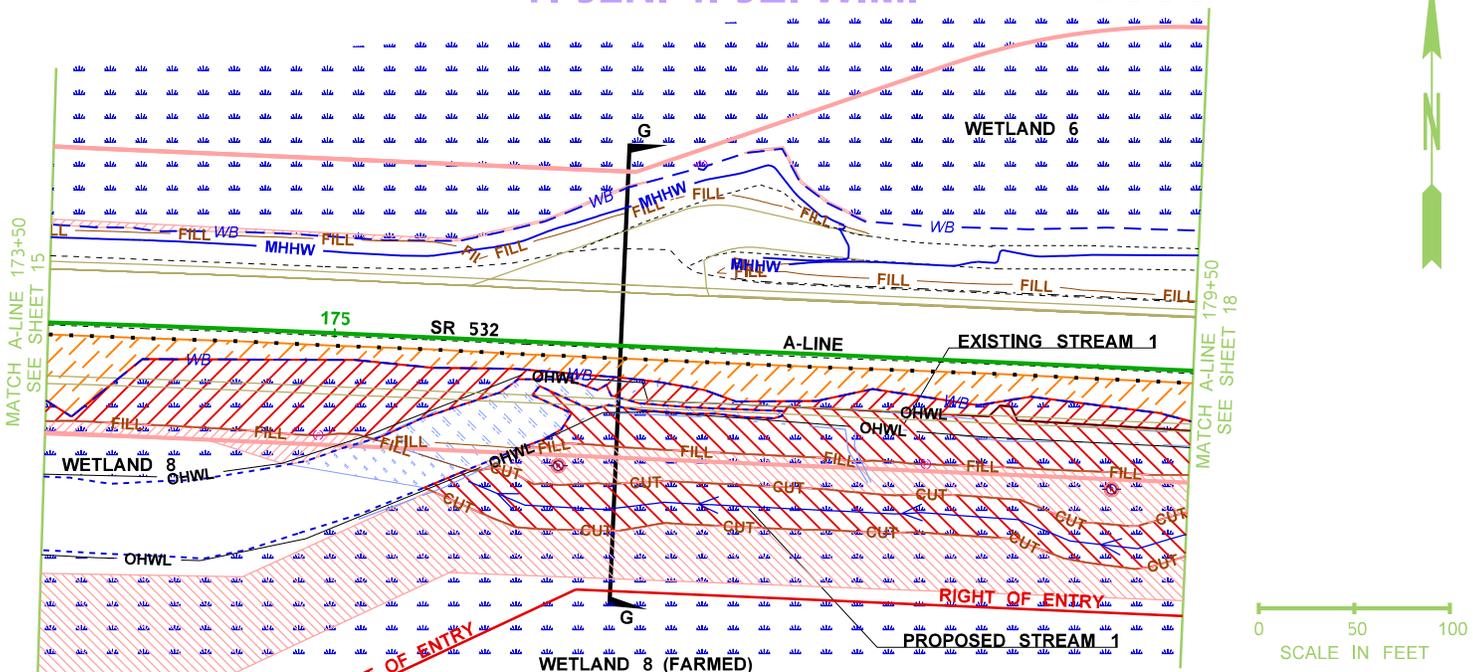
LEGEND	
	WSDOT RIGHT OF WAY
	CENTERLINE
	RIGHT OF ENTRY
	EDGE OF NEW PAVEMENT
	EDGE OF NEW GRAVEL
	EXISTING PAVED EDGE
	EXISTING GRAVEL EDGE
	EXISTING CULVERT
	EXISTING DITCH (NO DIRECTION)
	MUD FLAT BOUNDARY
	MEAN HIGHER HIGH WATER MARK
	ORDINARY HIGH WATER LINE
	WETLAND BOUNDARY
	STREAM BUFFER
	FILL LINE
	EXISTING POWER POLE
	NEW POWER POLE
	MHHW
	OHWL
	WB
	FILL
	FILL
	(P)
	(P)

PURPOSE:	SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE:	NWS-2010-968
PROPOSED:	SAFETY / FLOOD PREVENTION	APPLICANT:	WSDOT
LOCATION:	SR532 MP 2.50 TO MP 3.39	COUNTY:	ISLAND; SNOHOMISH
DATUM:	NAD 83 /91 MLLW=0'	NEAR:	STANWOOD
ADJACENT PROPERTY OWNERS:	SEE ATTACHED	WATER BODY:	DAVIS SLOUGH
DATE:	02-15-2013		

**Washington State
Department of Transportation**

SHEET: 15 OF: 18

T. 32N. 4. 3E. W.M.



MATCH A-LINE 173+50
SEE SHEET 15

MATCH A-LINE 179+50
SEE SHEET 18

PROPOSED WETLAND IMPACTS

AQUATIC SITE	SQ. FT. (ACRES)					IMPACT LEGEND
	6		8****		MUDFLAT**	
COUNTY	ISLAND	SNOH	SNOH	ISLAND	SNOH	
DOE CATEGORY	I	I	II			
WETLAND AREA	*(30)	*(70)	*(100)	N/A	N/A	
PERM. WETLAND IMPACT PERCENTAGE	<0.1%	<0.1%	1.8%	N/A	N/A	
PERM. WETLAND IMPACT	4925 (0.11)	1290 (0.03)	42340 (0.97)	N/A	N/A	
PERM. WETLAND-FARMED IMPACT	N/A	N/A	28839 (0.66)	N/A	N/A	
PERM. MUDFLAT IMPACT	N/A	N/A	N/A	0	3051 (0.07)	
TEMP. WETLAND IMPACT	3949 (0.09)	8446 (0.19)	6389 (0.15)	N/A	N/A	
TEMP. WETLAND-FARMED IMPACT	N/A	N/A	84274 (1.93)	N/A	N/A	
TEMP. MUDFLAT IMPACT	N/A	N/A	N/A	1646 (0.04)	3509 (0.08)	
PERM. WETLAND BUFFER IMPACT	0	0	3789 (0.09)	N/A	N/A	
TEMP. WETLAND BUFFER IMPACT	0	0	309 (<0.01)	N/A	N/A	
PERM. STREAM BUFFER IMPACT	28266 (0.65)	20711 (0.48)	24059 (0.55)	N/A	N/A	
TEMP. STREAM BUFFER IMPACT	9394 (0.22)	3677 (0.08)	8162 (0.19)	N/A	N/A	

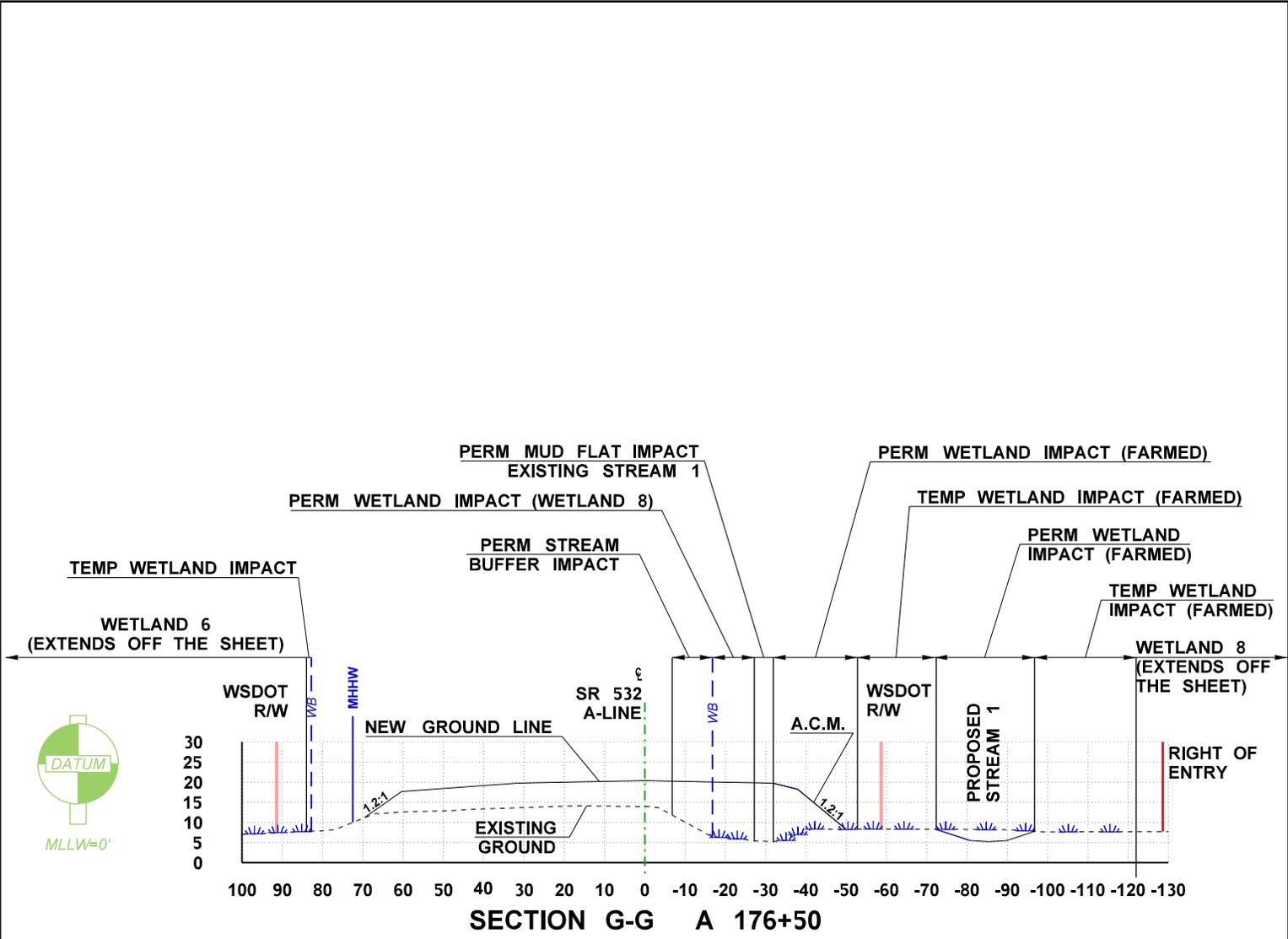
LEGEND

- WSDOT RIGHT OF WAY
- CENTERLINE
- RIGHT OF ENTRY
- EDGE OF NEW PAVEMENT
- EDGE OF NEW GRAVEL
- EXISTING PAVED EDGE
- EXISTING GRAVEL EDGE
- EXISTING CULVERT
- EXISTING DITCH (NO DIRECTION)
- MUD FLAT BOUNDARY
- ORDINARY HIGH WATER LINE
- MEAN HIGHER HIGH WATER MARK
- WETLAND BOUNDARY
- STREAM BUFFER
- CUT
- CUT
- FILL
- FILL
- EXISTING POWER POLE
- NEW POWER POLE

1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.
2. SEE CROSS SECTION G-G ON SHEET 17.

PROPOSED FILL BELOW MHHW	
AQUATIC SITE	WETLAND 6
SQUARE FEET (ACRES)	8694 (0.20)
CUBIC YARDS EXCAVATION	108
CUBIC YARDS FILL	2123

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968	<p>Washington State Department of Transportation</p>
PROPOSED: SAFETY / FLOOD PREVENTION	APPLICANT: WSDOT	
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH	
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD	
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH	
DATE: 02-15-2013		SHEET: 16 OF: 18



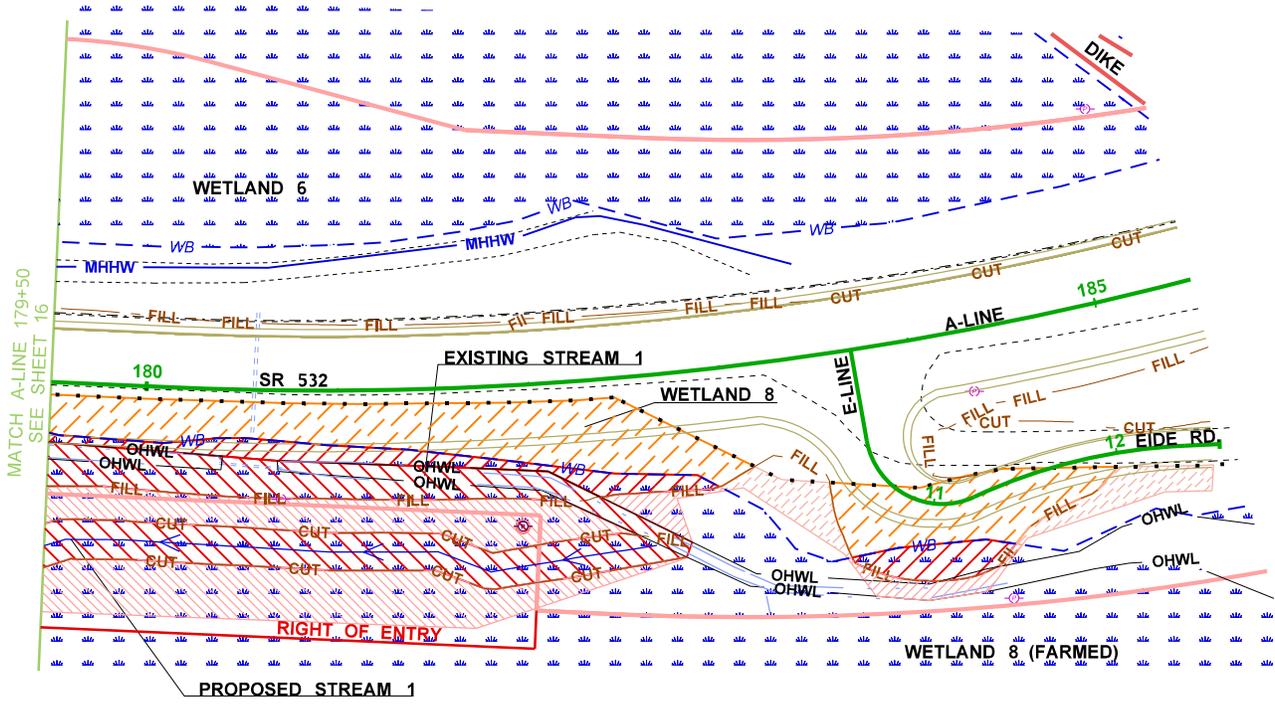
PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT
 PROPOSED: SAFETY /FLOOD PREVENTION
 LOCATION: SR532 MP 2.50 TO MP 3.39
 DATUM: NAD 83 /91 MLLW=0'
 ADJACENT PROPERTY OWNERS: SEE ATTACHED

REFERENCE: NWS-2010-968
 APPLICANT: WSDOT
 COUNTY: ISLAND; SNOHOMISH
 NEAR: STANWOOD
 WATER BODY: DAVIS SLOUGH

DATE: 02-15-2013



T. 32N. 4. 3E. W.M.



MATCH A-LINE 179+50
SEE SHEET 16

1. SEE SHEET 12 FOR ARTICULATED CONCRETE MAT (A.C.M.) TYPICAL DETAIL.



LEGEND

	WSDOT RIGHT OF WAY		MUD FLAT BOUNDARY
	CENTERLINE		OHWL
	RIGHT OF ENTRY		MHHW
	EDGE OF NEW PAVEMENT		WB
	EDGE OF NEW GRAVEL		STREAM BUFFER
	EXISTING PAVED EDGE		CUT
	EXISTING GRAVEL EDGE		FILL
	EXISTING CULVERT		EXISTING POWER POLE
	EXISTING DITCH (NO DIRECTION)		NEW POWER POLE

PROPOSED WETLAND IMPACTS		
SQ. FT. (ACRES)		
AQUATIC SITE	8****	IMPACT LEGEND
COUNTY	SNOH	
DOE CATEGORY	II	
WETLAND AREA	*(100)	
PERM. WETLAND IMPACT PERCENTAGE	1.8%	
PERM. WETLAND IMPACT	42340 (0.97)	
PERM. WETLAND-FARMED IMPACT	28839 (0.66)	
TEMP. WETLAND IMPACT	6389 (0.15)	
TEMP. WETLAND-FARMED IMPACT	84274 (1.93)	
PERM. WETLAND BUFFER IMPACT	3789 (0.09)	
TEMP. WETLAND BUFFER IMPACT	309 (<0.01)	
PERM. STREAM BUFFER IMPACT	24059 (0.55)	
TEMP. STREAM BUFFER IMPACT	8162 (0.19)	
* WETLAND SIZE IS ESTIMATED FROM AERIAL PHOTO ****STREAM 1 IMPACTS ARE INCLUDED IN WETLAND 8 IMPACTS.		

PURPOSE: SR532 DAVIS SLOUGH BRIDGE REPLACEMENT	REFERENCE: NWS-2010-968
PROPOSED: SAFETY /FLOOD PREVENTION	APPLICANT: WSDOT
LOCATION: SR532 MP 2.50 TO MP 3.39	COUNTY: ISLAND; SNOHOMISH
DATUM: NAD 83 /91 MLLW=0'	NEAR: STANWOOD
ADJACENT PROPERTY OWNERS: SEE ATTACHED	WATER BODY: DAVIS SLOUGH
DATE: 02-15-2013	



**Washington State
Department of Transportation**

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