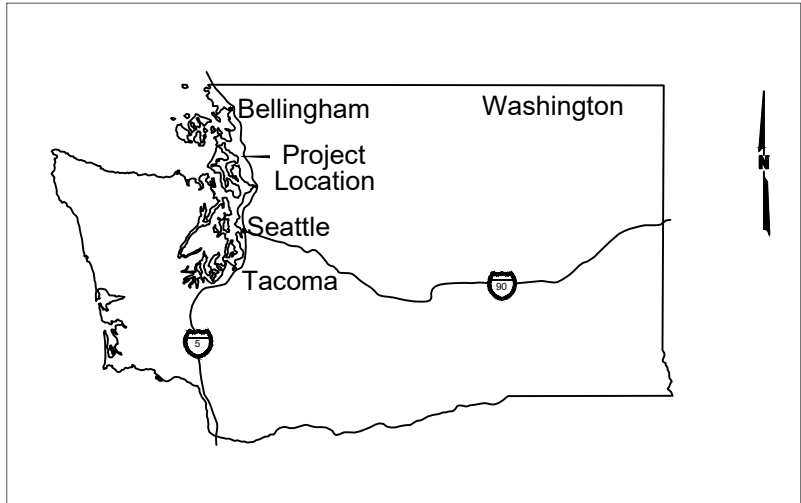
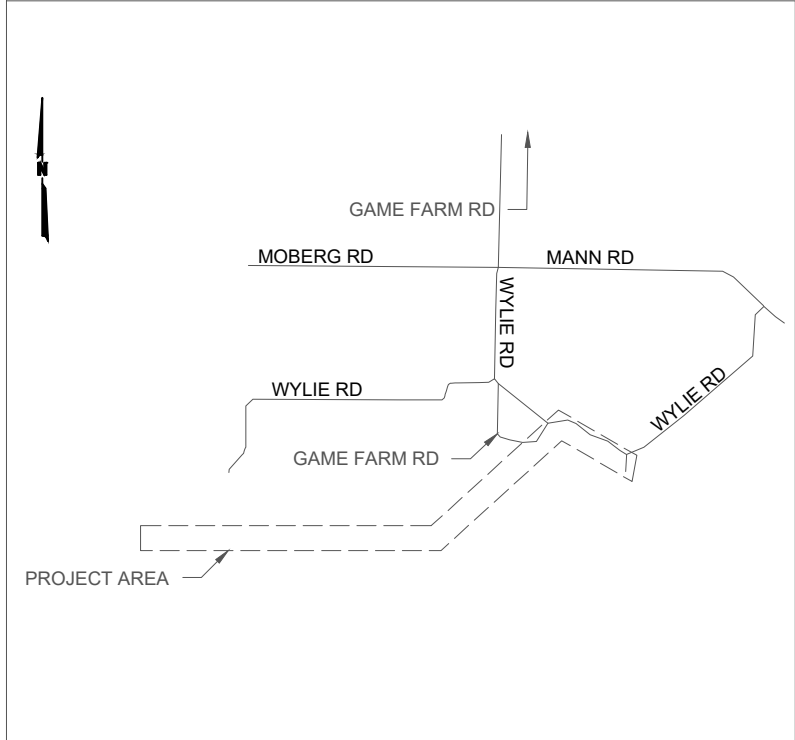


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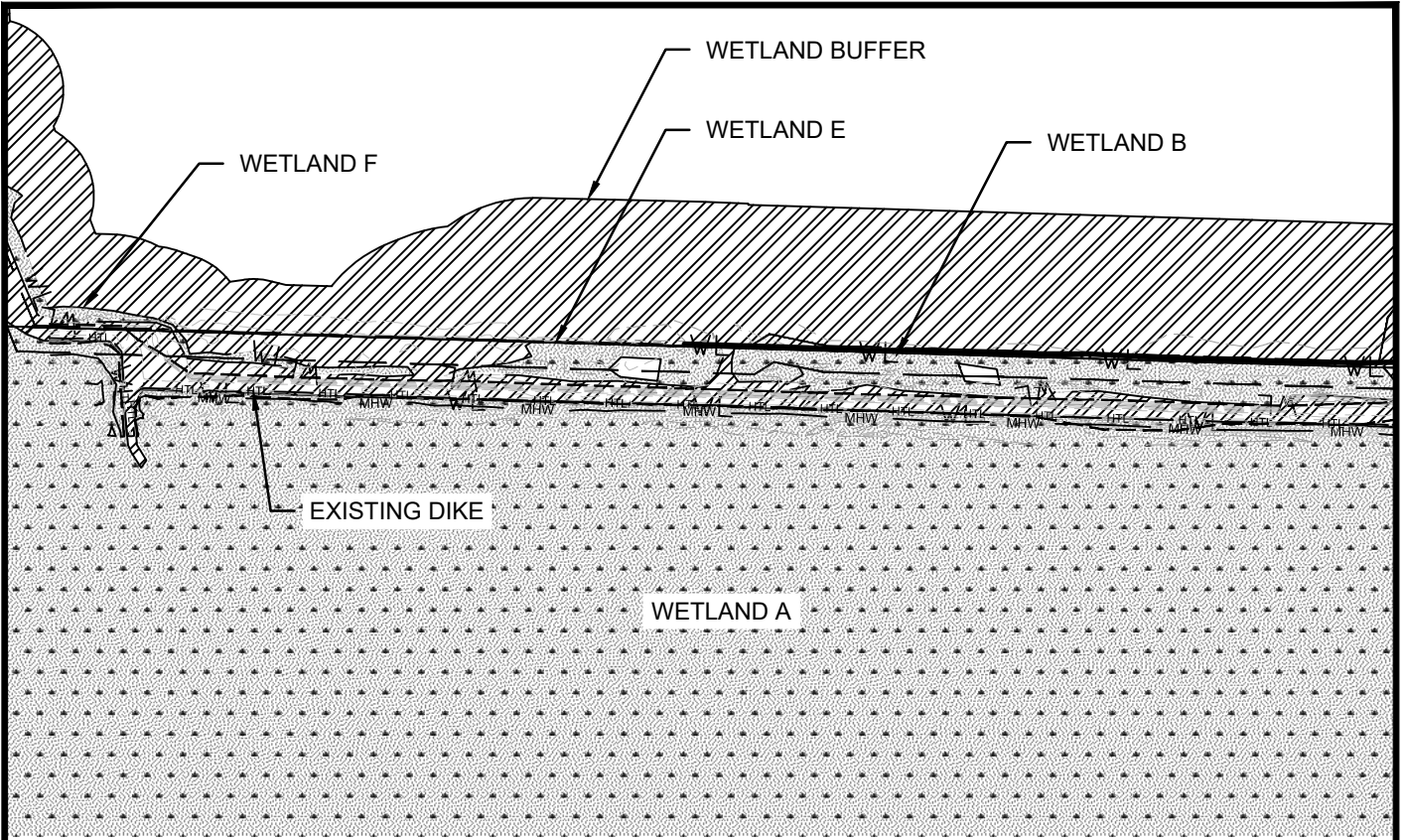
LOCATION MAP
NTS



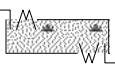

VICINITY MAP
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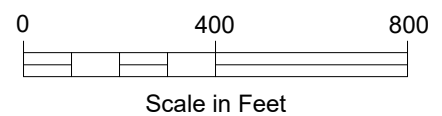
Sheet List Table	
Sheet Number	Sheet Title
01	COVER SHEET
02	EXISTING CONDITIONS (1)
03	EXISTING CONDITIONS (2)
04	TESC & DEMOLITION PLAN (1)
05	TESC & DEMOLITION PLAN (2)
06	PROPOSED GRADING PLAN (1)
07	PROPOSED GRADING PLAN (2)
08	PROPOSED GRADING PLAN (3)
09	PROPOSED GRADING PLAN (4)
10	IMPACTS TABLE
11	WEST DIKE TYPICAL SECTION
12	EAST DIKE TYPICAL SECTION (1)
13	EAST DIKE TYPICAL SECTION (2)
14	TIDEGATE PLAN
15	TIDEGATE DETAIL
16	ESTUARINE WETLAND RE-ESTABLISHMENT AREA (1)
17	ESTUARINE WETLAND RE-ESTABLISHMENT AREA (2)
18	TYPICAL ESTUARINE WETLAND RE-ESTABLISHMENT SECTION
19	SEEDING & RESTORATION (1)
20	SEEDING & RESTORATION (2)
21	PLANTING SCHEDULE
22	COIR LOG DETAIL

CORPS REFERENCE NO: NWS-2021-460	LOCATION: SKAGIT COUNTY	PROPOSED PROJECT: WILEY DIKE REPAIR
APPLICANT: WDFW		
PROJECT: WILEY DIKE REPAIR	LAT: N048° 19' 20.86" LONG: W122° 22' 54.94"	WATERBODY: SKAGIT BAY/SKAGIT RIVER
ADJACENT OWNERS: 1. Wash. Dept. of Fish and Wildlife 2. South Forks Farms LLC	SEC. 26, T. 33 N. R. 03 E. W.M.	NEAR: CONWAY
	TITLE: COVER SHEET	COUNTY: SKAGIT
DATE: OCT. 15, 2021	SHEET 01 OF 22	STATE: WA



LEGEND

- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- CLL — CONSTRUCTION LIMIT LINE (CLL)
- MHW - MEAN HIGH WATER (MHW) (7.83')
- HTL - HIGH TIDE LEVEL (HTL) (11.20')
-  WETLANDS
-  WETLAND BUFFER



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

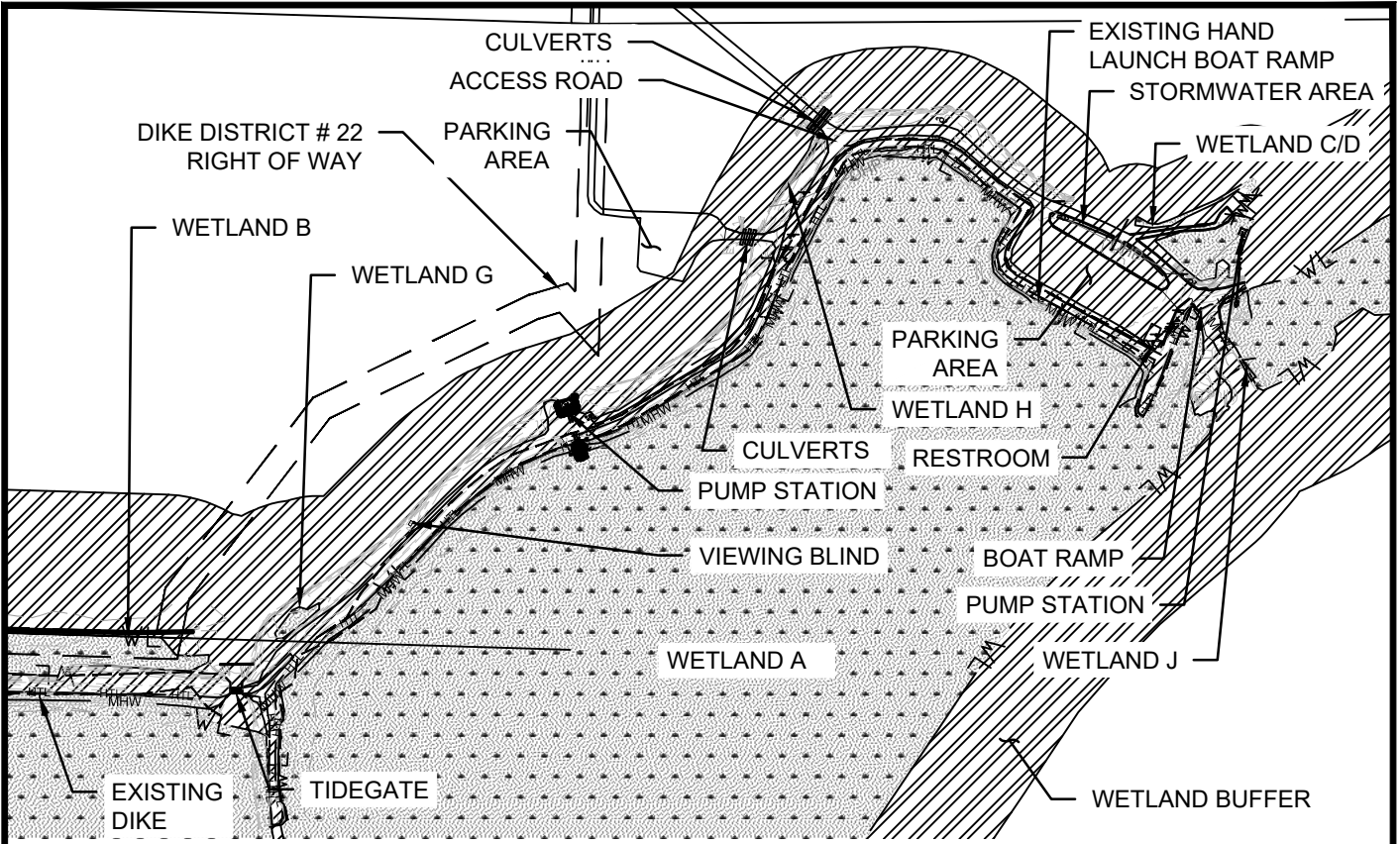
LOCATION: SKAGIT COUNTY

TITLE: EXISTING CONDITIONS (1)

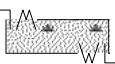

DATE: OCT. 15, 2021

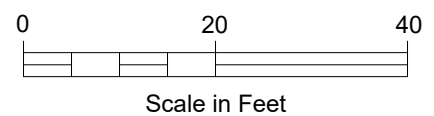
SHEET 02 OF 22

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LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- CLL — CONSTRUCTION LIMIT LINE (CLL)
- MHW — MEAN HIGH WATER (MHW) (7.83')
- HTL — HIGH TIDE LEVEL (HTL) (11.20')
-  WETLANDS
-  WETLAND BUFFER



NOTES

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6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

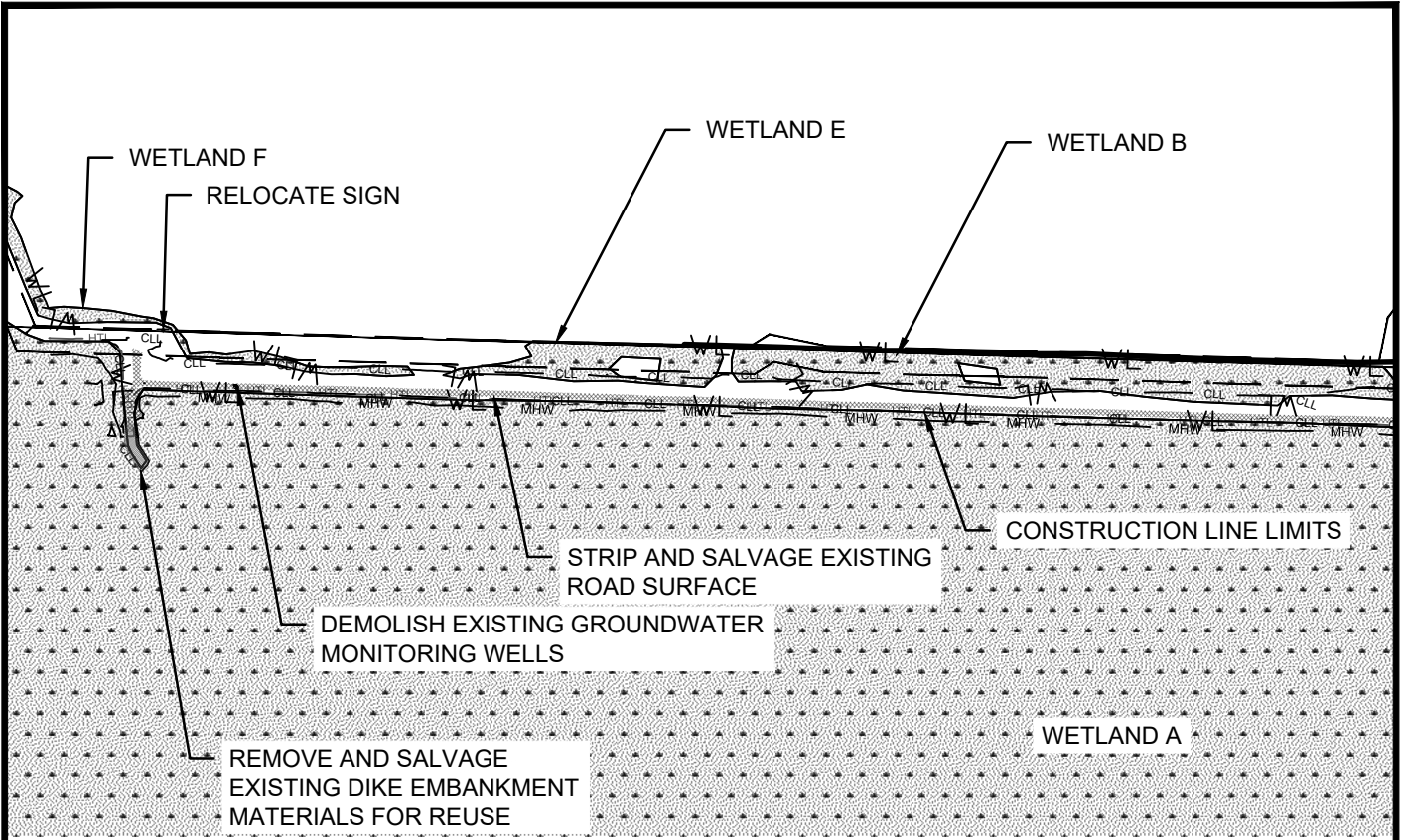
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

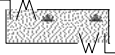
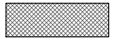
TITLE: EXISTING CONDITIONS (1)

DATE: OCT. 15, 2021

SHEET 03 OF 22

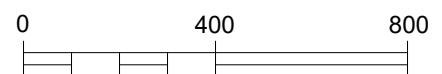


LEGEND

- CLL — CONSTRUCTION LIMIT LINE (CLL)
- MHW — MEAN HIGH WATER (MHW) (7.83')
- HTL — HIGH TIDE LEVEL (HTL) (11.20')
-  WETLANDS
-  EXISTING ROAD SURFACE

NOTES

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5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13
8. HIGH VISIBILITY SILT FENCE TO BE USED ALONG LANDWARD CONSTRUCTION LIMITS
9. COIR LOGS TO BE INSTALLED ALONG WATERWARD CONSTRUCTION LIMITS.
10. PRIOR TO CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE TESC PLAN AND SWPPP.



Scale in Feet

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

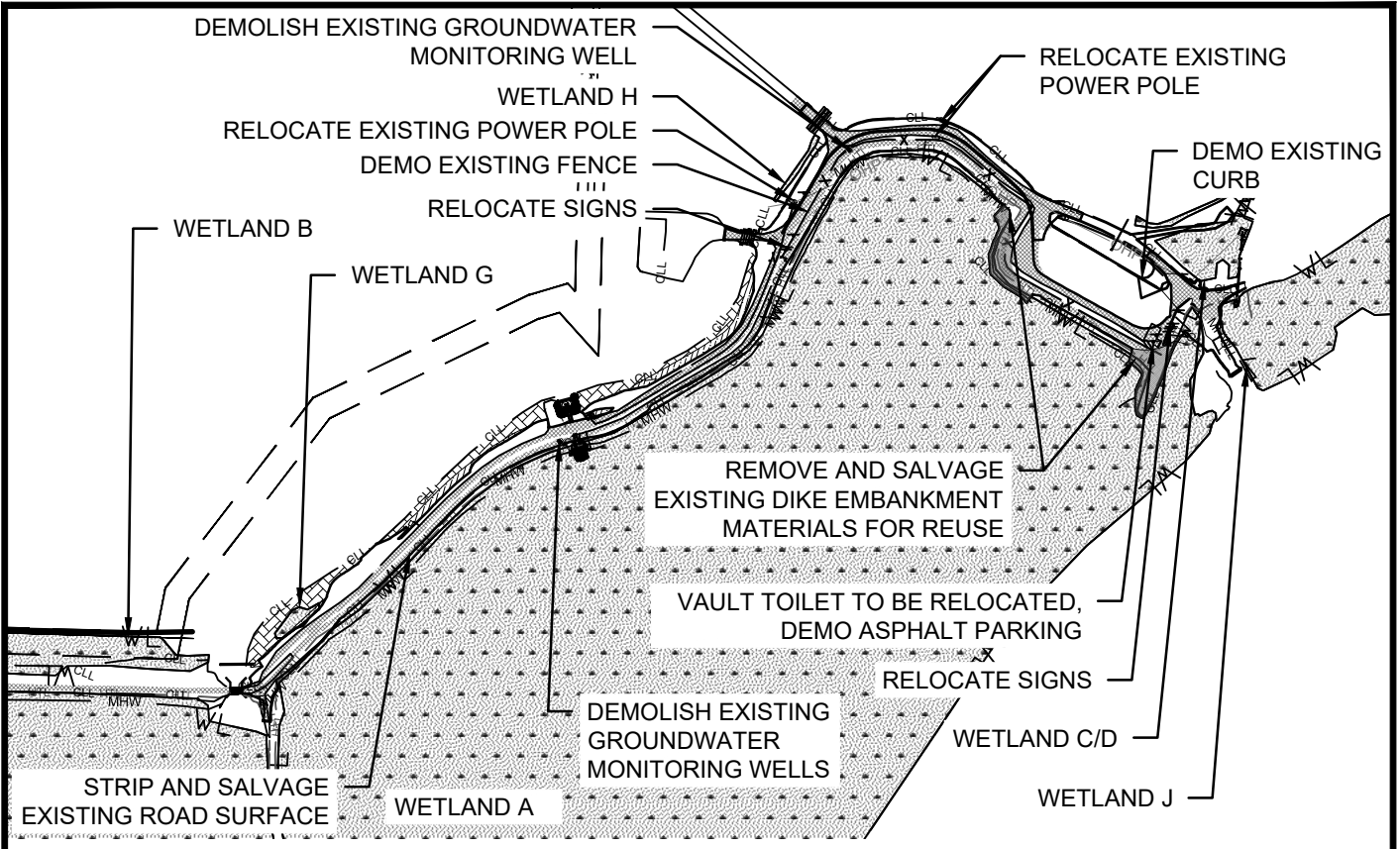
LOCATION: SKAGIT COUNTY

TITLE: TESC & DEMOLITION PLAN (1)

DATE: OCT. 15, 2021

SHEET 04 OF 22

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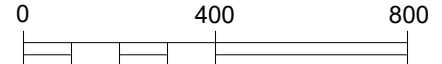


LEGEND

- CLL — CONSTRUCTION LIMIT LINE (CLL)
- MHW — MEAN HIGH WATER (MHW) (7.83')
- HTL — HIGH TIDE LEVEL (HTL) (11.20')
- WETLANDS
- EXISTING ROAD SURFACE
- RIPARIAN IMPROVEMENT AREA
- WOODY VEGETATION FREE ZONE

NOTES

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 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. OHWM NOT SHOWN IN PLAN VIEW SHEETS FOR LEGIBILITY. OHWM SHOWN ON TYPICAL SECTIONS ON SHEETS 11, 12, AND 13
8. HIGH VISIBILITY SILT FENCE TO BE USED ALONG LANDWARD CONSTRUCTION LIMITS
9. COIR LOGS TO BE INSTALLED ALONG WATERWARD CONSTRUCTION LIMITS.
10. PRIOR TO CLEARING AND GRADING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE TESC PLAN AND SWPPP.



Scale in Feet

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

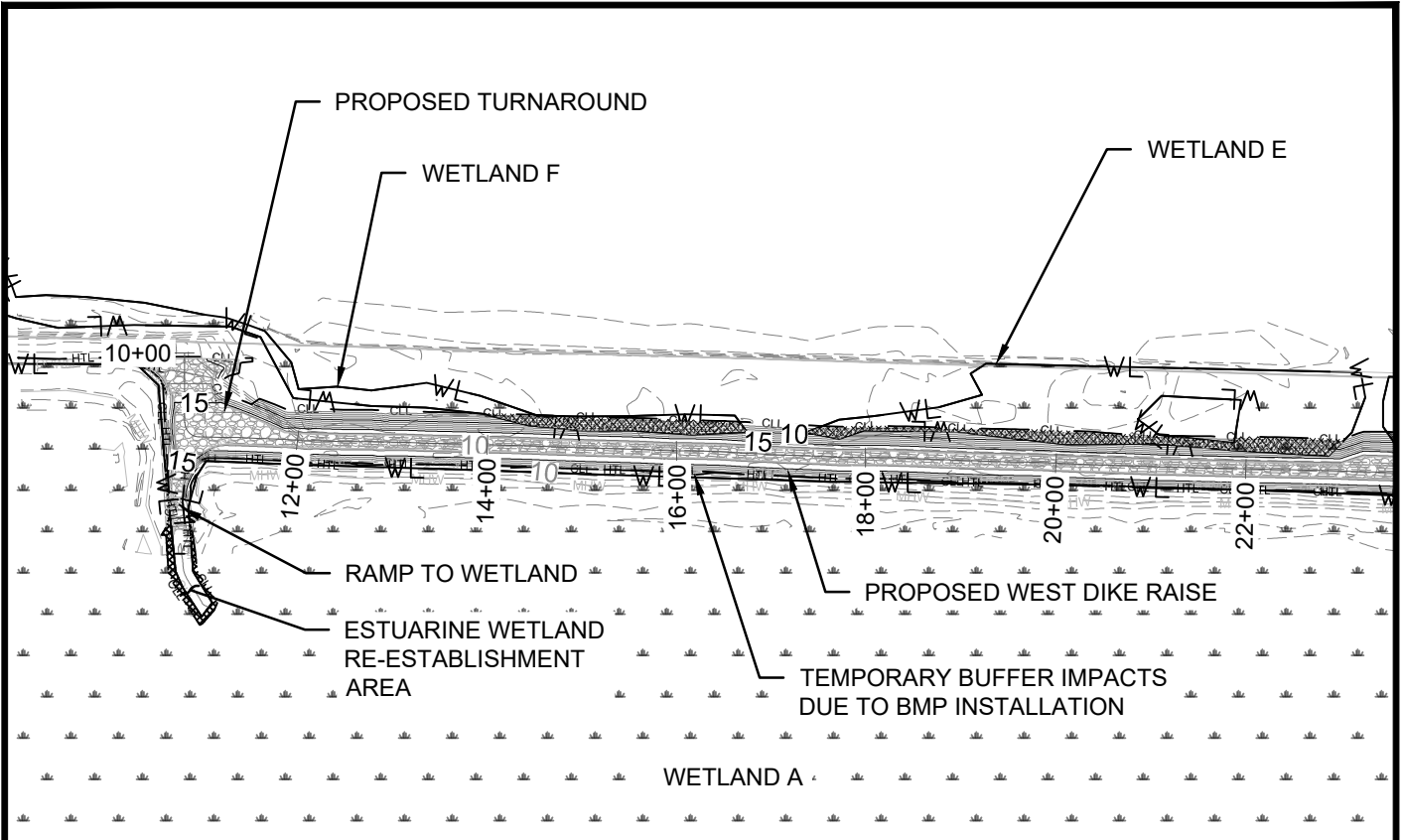
LOCATION: SKAGIT COUNTY

TITLE: TESC & DEMOLITION PLAN (2)

DATE: OCT. 15, 2021

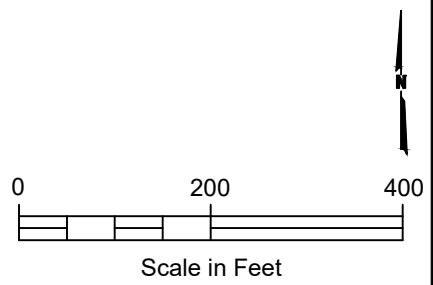
SHEET 05 OF 22

Filename: I:\EF\SEA\105000s\105617 Wiley Final Des\CAD\Active\ACAD - JARPA\04_Sheets\R18420212c007.dwg Date: 10-13-2021 Login: AWP



LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - - EXISTING MAJOR CONTOUR
- - - - EXISTING MINOR CONTOUR
- CLL — CONSTRUCTION LIMIT LINE (CLL)
- OHWM — ORDINARY HIGH WATER (OHWM)
- MHW — MEAN HIGH WATER (MHW) (7.83')
- HTL — HIGH TIDE LEVEL (HTL) (11.20')
- WETLANDS
- CRUSHED SURFACING BASE COURSE (CSBC)
- PAVEMENT
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
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 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: PROPOSED GRADING PLAN (1)

DATE: OCT. 15, 2021

SHEET 06 OF 22

Waterbody	Activity	Impact Area (square feet)		Permanent Volume (cubic yards)		Conversion from Woody to Herbaceous (square feet)	Estuarine Re-establishment (square feet)
		Temporary	Permanent	Excavation	Fill		
BELOW PUGET SOUND OHWM*	Dike Repair	17,353	10,631	NA	NA	NA	NA
BELOW PUGET SOUND HTL*	Dike Repair	11,459	4,405	602	427	NA	NA
Wetland A**	Estuarine wetland re- establishment grading	6,530	87	398	21	NA	NA
Wetland B	Dike Repair	2,689	15,537	575	2,535	1075	NA
Wetland E	Dike Repair	977	4,567	169	601	538	NA
Wetland F	Dike Repair	529	2,786	103	391	355	NA
Wetland G	Dike Repair	542	34	1	1	542	NA
TOTAL WETLAND IMPACTS		11,267	23,011	1,247	3,550	2,509	NA
BUFFER IMPACTS		105,868***	70,060	NA	NA	16,114	10,744

*THE "BELOW PUGET SOUND HTL" AND "BELOW PUGET SOUND OHWM" QUANTITIES REFLECT DISTURBANCE BELOW EACH RESPECTIVE JURISDICTIONAL BOUNDARY.

**WETLAND A QUANTITIES ARE A SUB-SET OF BELOW PUGET SOUND HTL AND OHWM QUANTITIES.

***TEMPORARY BUFFER IMPACT QUANTITY INCLUDES AREAS WHERE HERBACEOUS BUFFER WILL BE SHIFTED AND RESEEDED ON NEW DIKE SIDE SLOPES.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

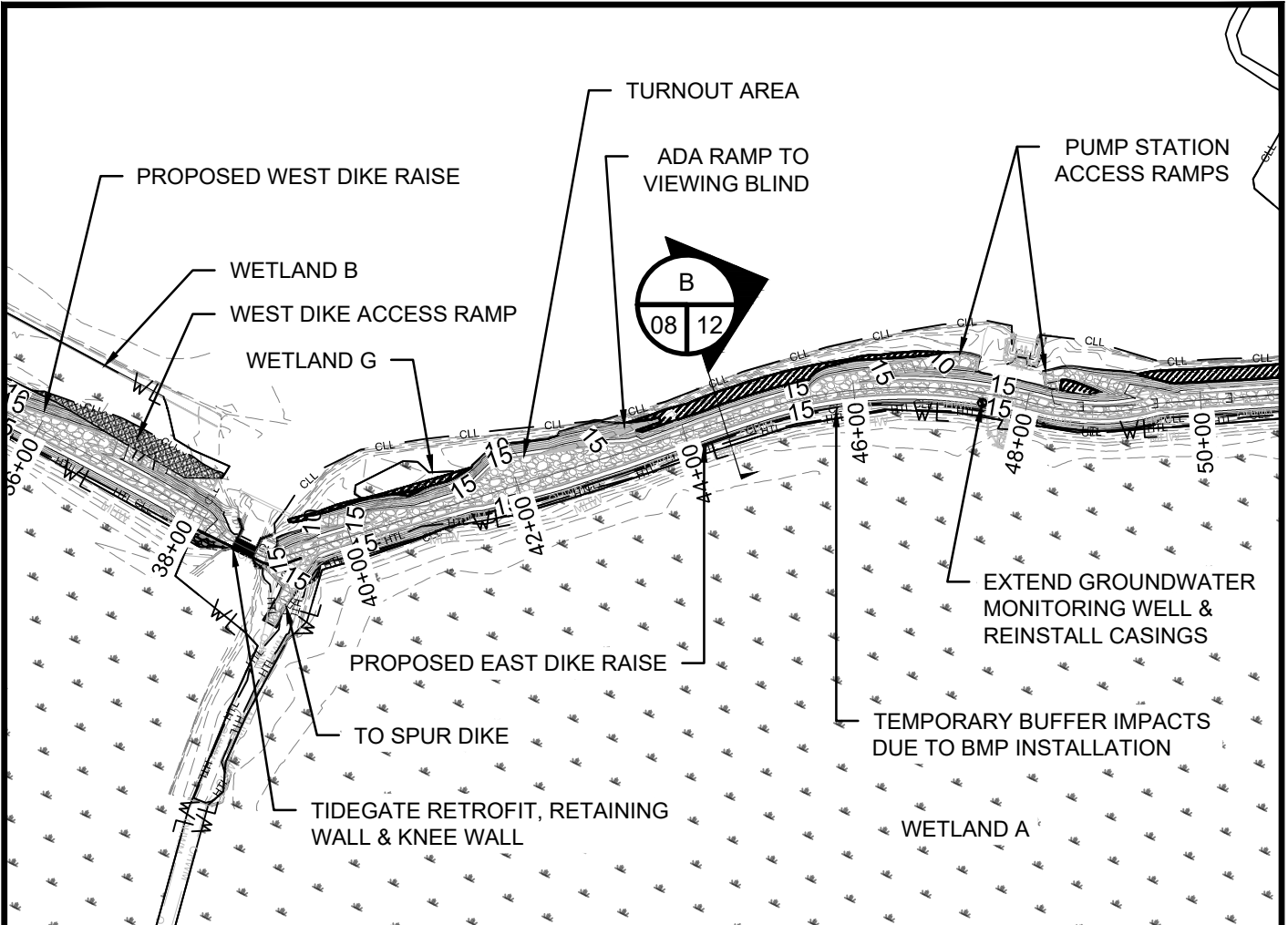
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: IMPACTS TABLE

DATE: OCT. 15, 2021

SHEET 10 OF 22



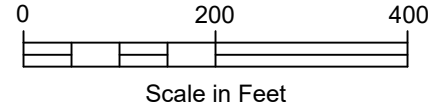
LEGEND

- | | | | |
|----------|--------------------------------|--|--------------------------------|
| — | PROPOSED MAJOR CONTOUR | | TEMPORARY WETLAND IMPACT |
| - - - | PROPOSED MINOR CONTOUR | | PERMANENT WETLAND IMPACT |
| - - - | EXISTING MAJOR CONTOUR | | RIPRAP (TIDEGATE WALL) |
| - - - | EXISTING MINOR CONTOUR | | 15' WOODY VEGETATION FREE ZONE |
| — CLL — | CONSTRUCTION LIMIT LINE (CLL) | | |
| — OHWM — | ORDINARY HIGH WATER (OHWM) | | |
| — MHW — | MEAN HIGH WATER (MHW) (7.83') | | |
| — HTL — | HIGH TIDE LEVEL (HTL) (11.20') | | |

- WETLANDS
- CRUSHED SURFACING BASE COURSE (CSBC)
- PAVEMENT

NOTES

1. VERTICAL PROJECT DATUM: NAVD88
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5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.



CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

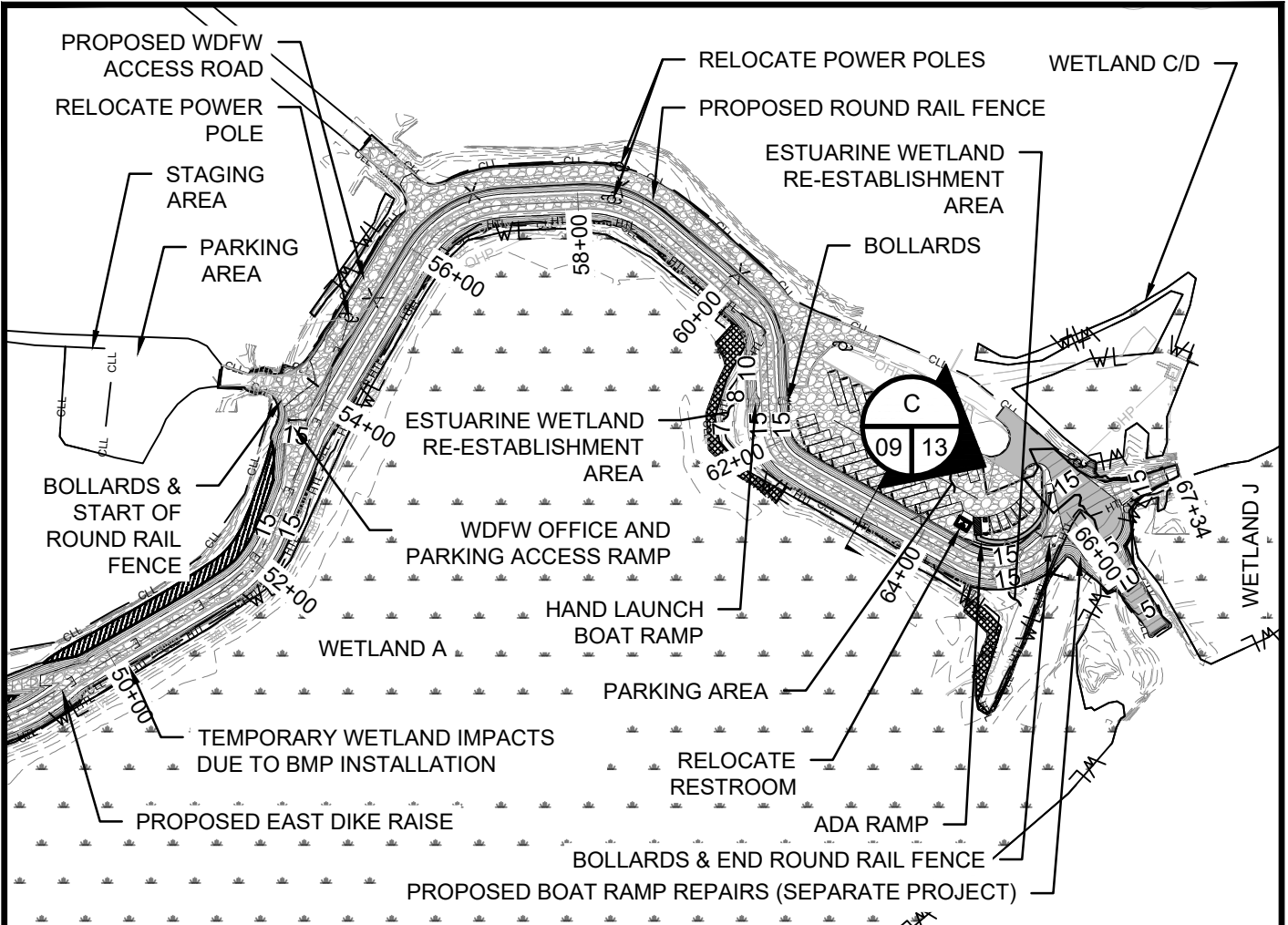
LOCATION: SKAGIT COUNTY

TITLE: PROPOSED GRADING PLAN (3)

DATE: OCT. 15, 2021

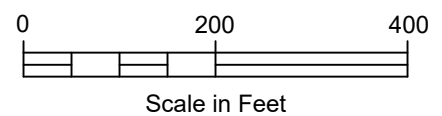
SHEET 08 OF 22

Filename: I:\EF\SEA\105000s\105617 Wiley Final Des\CAD_Active\ACAD - JARPA\04_Sheets\18420212c007.dwg Date: 10-13-2021 Login: AWP



LEGEND

	PROPOSED MAJOR CONTOUR		WETLANDS
	PROPOSED MINOR CONTOUR		CRUSHED SURFACING BASE COURSE (CSBC)
	EXISTING MAJOR CONTOUR		PAVEMENT
	EXISTING MINOR CONTOUR		15' WOODY VEGETATION FREE ZONE
	CONSTRUCTION LIMIT LINE (CLL)		
	ORDINARY HIGH WATER (OHWM)		
	MEAN HIGH WATER (MHW) (7.83')		
	HIGH TIDE LEVEL (HTL) (11.20')		
	TEMPORARY WETLAND IMPACT		
	PERMANENT WETLAND IMPACT		



NOTES

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6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: PROPOSED GRADING PLAN (4)

DATE: OCT. 15, 2021

SHEET 09 OF 22

Waterbody	Activity	Impact Area (square feet)		Permanent Volume (cubic yards)		Conversion from Woody to Herbaceous (square feet)
		Temporary	Permanent	Excavation	Fill	
BELOW PUGET SOUND OHWM*	Dike Repair	17,353	10,631	NA	NA	NA
BELOW PUGET SOUND HTL*	Dike Repair	11,459	4,405	602	427	NA
Wetland A**	Estuarine wetland re-establishment grading	6,530	87	398	21	NA
Wetland B	Dike Repair	2,689	15,537	575	2,535	1075
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Wetland F	Dike Repair	529	2,786	103	391	355
Wetland G	Dike Repair	542	34	1	1	542
TOTAL WETLAND IMPACTS		11,267	23,011	1,247	3,550	2,509
BUFFER IMPACTS		105,928***	61,435	NA	NA	#VALUE!

*THE "BELOW PUGET SOUND HTL" AND "BELOW PUGET SOUND OHWM" QUANTITIES REFLECT DISTURBANCE BELOW EACH RESPECTIVE JURISDICTIONAL BOUNDARY.

**WETLAND A QUANTITIES ARE A SUB-SET OF BELOW PUGET SOUND HTL AND OHWM QUANTITIES.

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CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

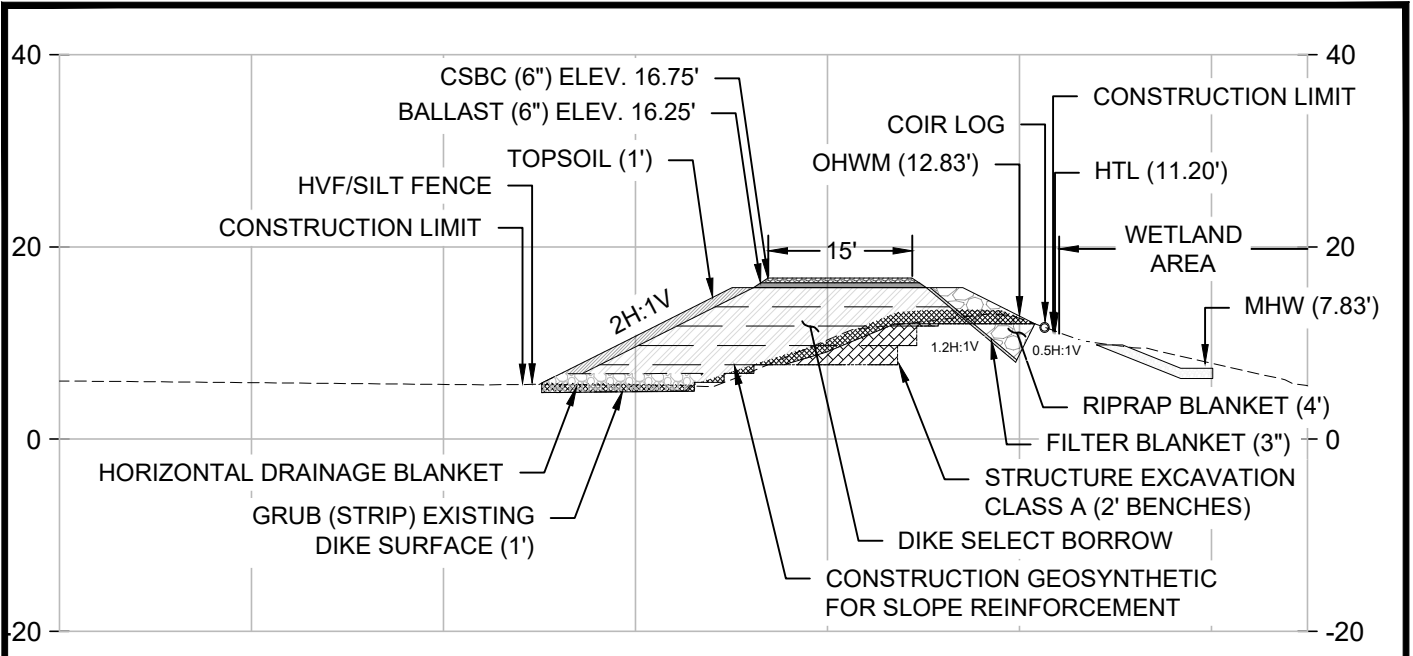
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TITLE: IMPACTS TABLE

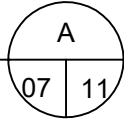
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SHEET 10 OF 22

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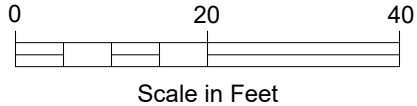


WEST DIKE TYPICAL SECTION



LEGEND

- EXISTING GRADE
- DESIGN GRADE
- [Hatched pattern] DIKE SELECT BORROW
- [Crushed base pattern] CRUSHED SURFACING BASE COURSE (CSBC) (6")
- [Ballast pattern] BALLAST (6")
- [Grub pattern] GRUB (STRIP) EXISTING DIKE SURFACE (1')
- [Horizontal drainage pattern] HORIZONTAL DRAINAGE BLANKET
- [Temp. cut slope pattern] TEMP. CUT SLOPE
- [Filter blanket pattern] FILTER BLANKET (3")
- [Riprap pattern] RIPRAP BLANKET
- [Topsoil pattern] TOPSOIL TYPE B (1')



NOTES

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6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

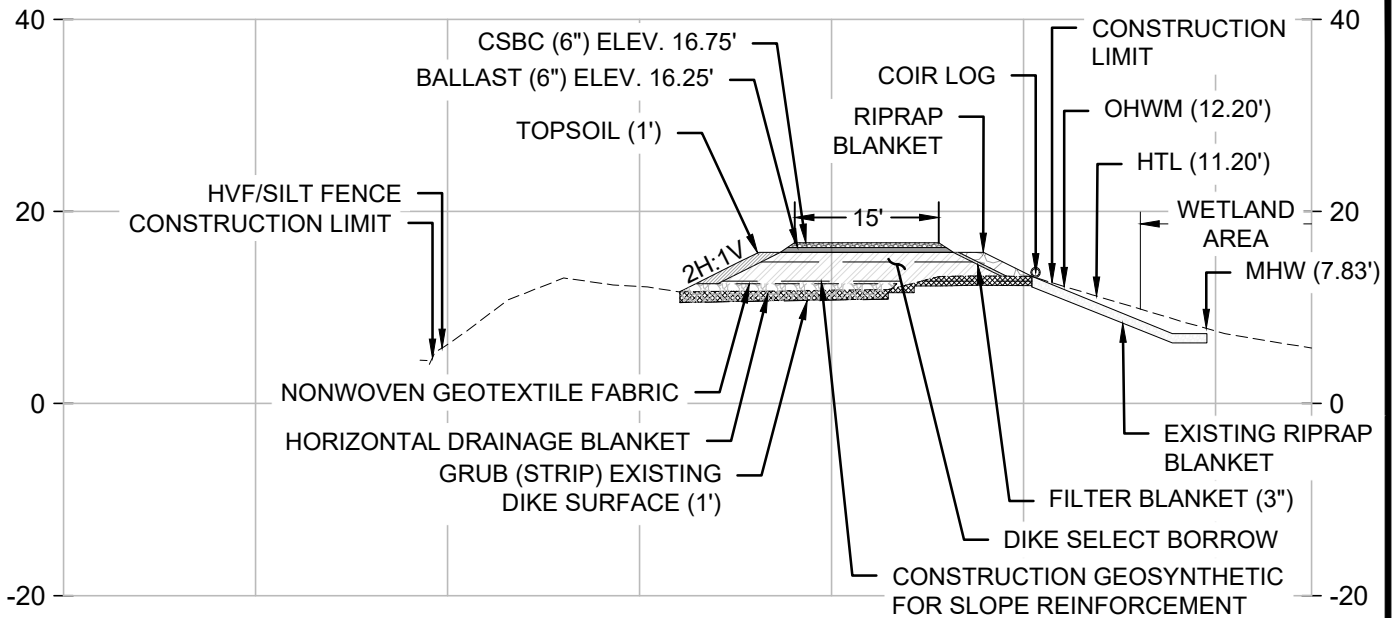
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

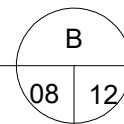
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DATE: OCT. 15, 2021

SHEET 11 OF 22

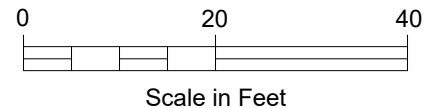


EAST DIKE TYPICAL SECTION



LEGEND

- EXISTING GRADE
- DESIGN GRADE
- DIKE SELECT BORROW
- CRUSHED SURFACING BASE COURSE (CSBC) (6")
- BALLAST (6")
- GRUB (STRIP) EXISTING DIKE SURFACE (1')
- HORIZONTAL DRAINAGE BLANKET
- TEMP. CUT SLOPE
- FILTER BLANKET (3")
- RIPRAP BLANKET
- TOPSOIL TYPE B (1')



NOTES

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6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

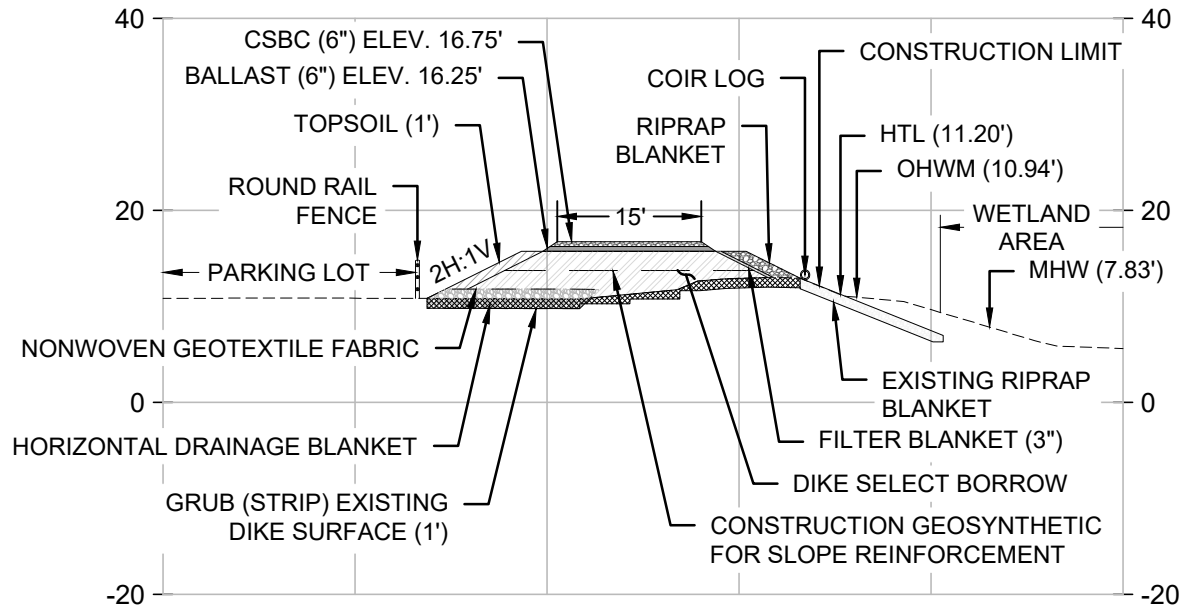
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

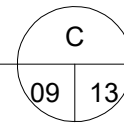
TITLE: EAST DIKE TYPICAL SECTION (1)

DATE: OCT. 15, 2021

SHEET 12 OF 22

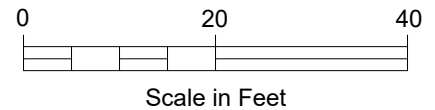


EAST DIKE TYPICAL SECTION



LEGEND

- EXISTING GRADE
- DESIGN GRADE
- [Hatched pattern] DIKE SELECT BORROW
- [Crushed stone pattern] CRUSHED SURFACING BASE COURSE (CSBC) (6")
- [Solid grey] BALLAST (6")
- [Cross-hatched] GRUB (STRIP) EXISTING DIKE SURFACE (1')
- [Circular pattern] HORIZONTAL DRAINAGE BLANKET
- [Diagonal lines] TEMP. CUT SLOPE
- [Dotted pattern] FILTER BLANKET (3")
- [Riprap pattern] RIPRAP BLANKET
- [Diagonal lines] TOPSOIL TYPE B (1')



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

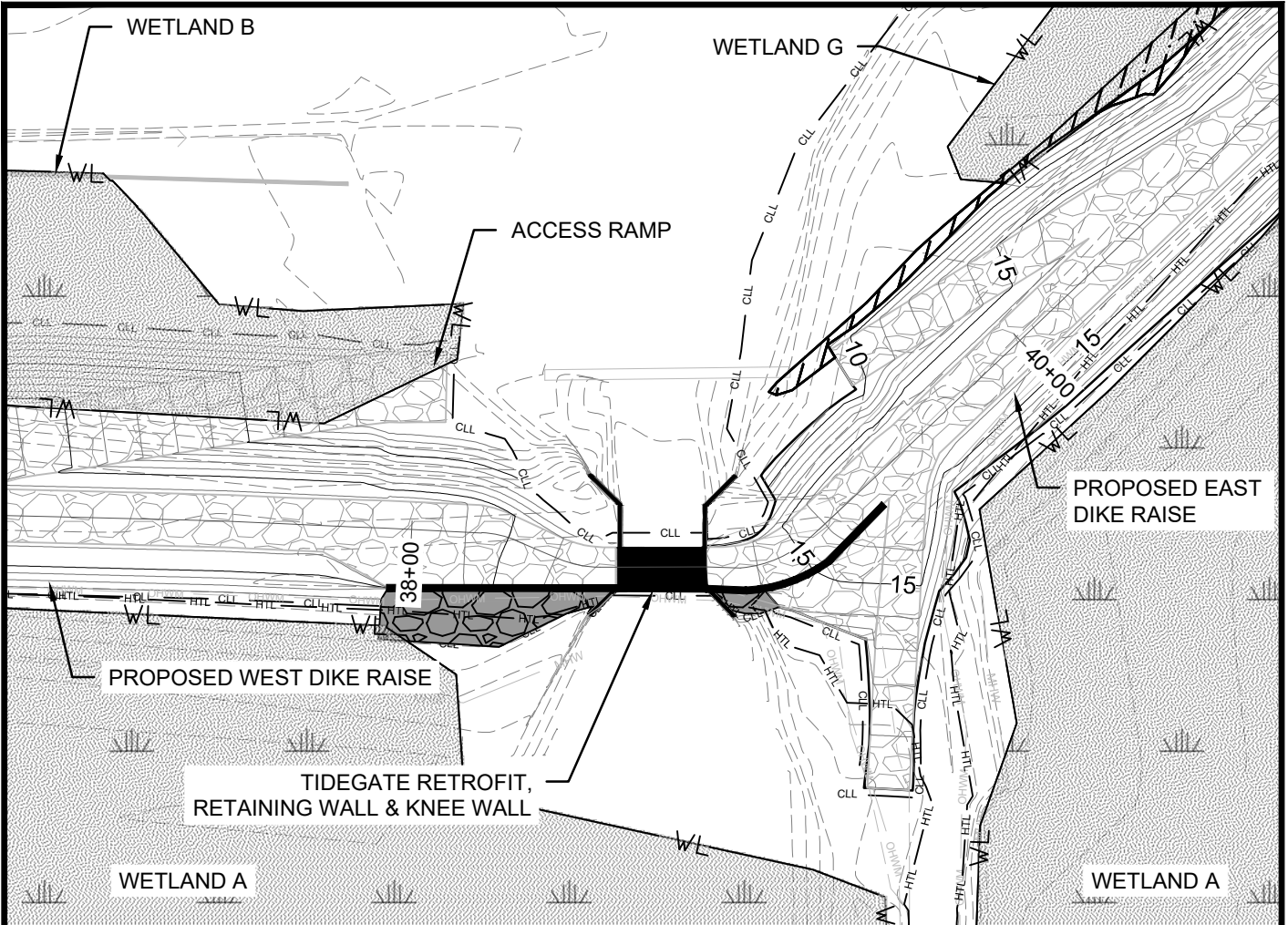
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: EAST DIKE TYPICAL SECTION (2)

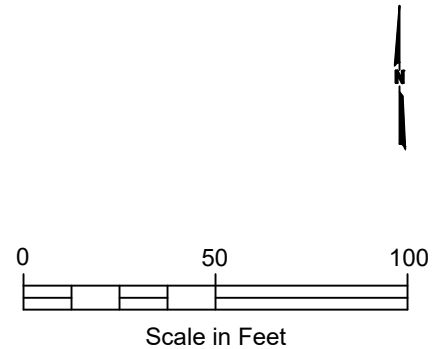
DATE: OCT. 15, 2021

SHEET 13 OF 22



LEGEND

	PROPOSED MAJOR CONTOUR		RIPRAP (TIDEGATE WALL)
	PROPOSED MINOR CONTOUR		
	EXISTING MAJOR CONTOUR		
	EXISTING MINOR CONTOUR		
	CONSTRUCTION LIMIT LINE (CLL)		
	ORDINARY HIGH WATER (OHWM)		
	MEAN HIGH WATER (MHW) (7.83')		
	HIGH TIDE LEVEL (HTL) (11.20')		
	WETLANDS		
	CRUSHED SURFACING BASE COURSE (CSBC)		
	PAVEMENT		



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

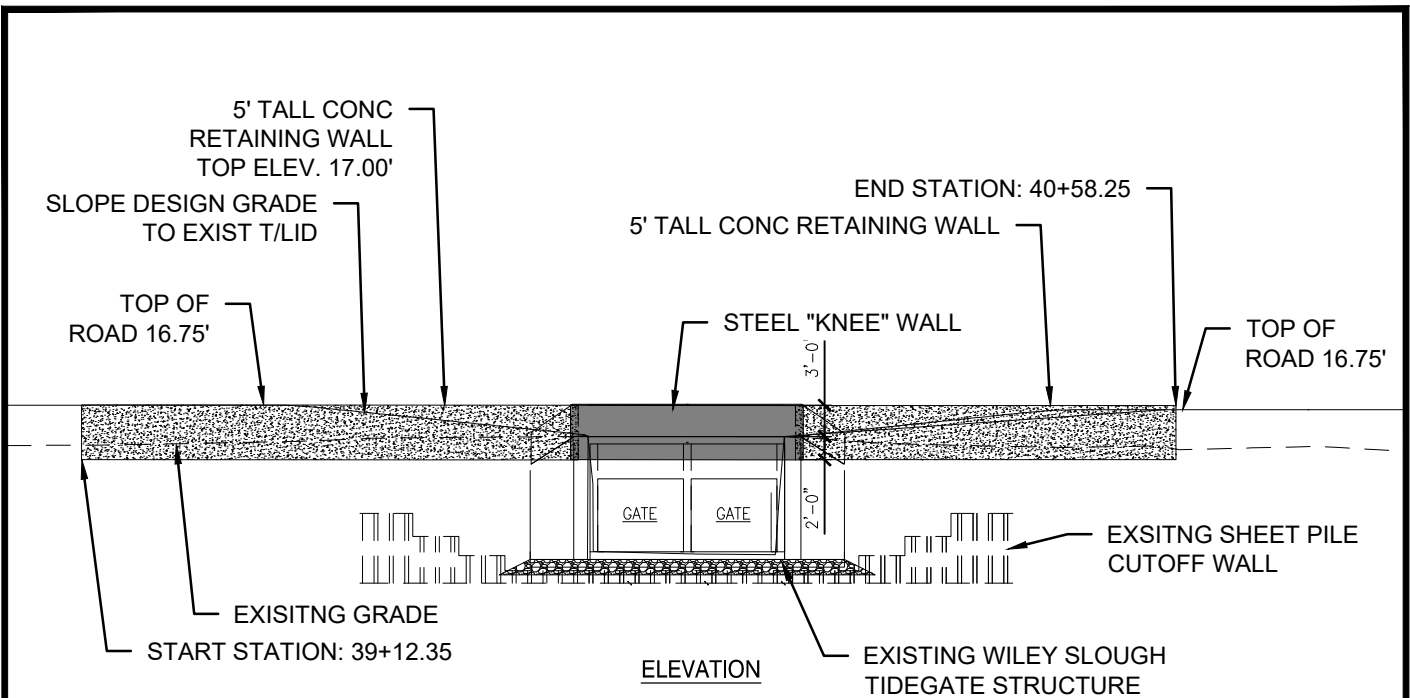
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY



TITLE: TIDEGATE PLAN

DATE: OCT. 15, 2021

SHEET 14 OF 22



LEGEND

-  CONCRETE RETAINING WALL
-  STEEL "KNEE" WALL

NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW +7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

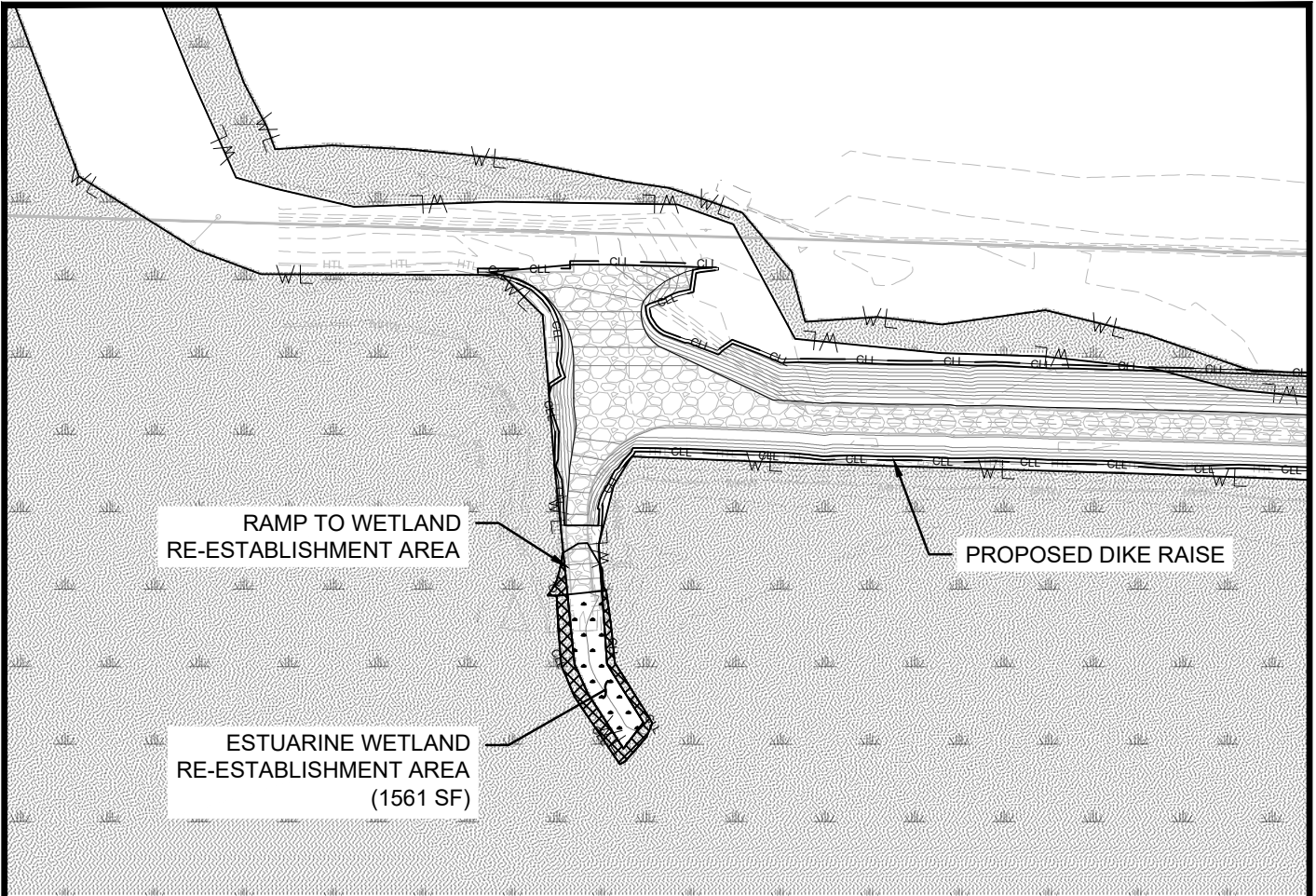
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: TIDEGATE DETAIL

DATE: OCT. 15, 2021

SHEET 15 OF 22

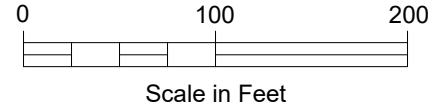


LEGEND

	PROPOSED MAJOR CONTOUR		ESTUARINE WETLAND RE-ESTABLISHMENT AREA
	PROPOSED MINOR CONTOUR		TEMPORARY WETLAND IMPACT
	EXISTING MAJOR CONTOUR		
	EXISTING MINOR CONTOUR		
	CONSTRUCTION LIMIT LINE (CLL)		
	ORDINARY HIGH WATER (OHWM)		
	MEAN HIGH WATER (MHW) (7.83')		
	HIGH TIDE LEVEL (HTL) (11.20')		
	WETLANDS		
	CRUSHED SURFACING BASE COURSE (CSBC)		

NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. ESTUARINE RE-ESTABLISHMENT WILL MITIGTE PERMANENT ESTUARINE WETLAND IMPACTS ASSOCIATED WITH THIS DIKE REPAIR PROJECT. THE WDFW SKAGIT WLA RAMP REPLACEMENT PROJECT (NWS-2020-266) AND WDFW SPUR DIKE REPAIR PROJECT (NWS-2020-238).



CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

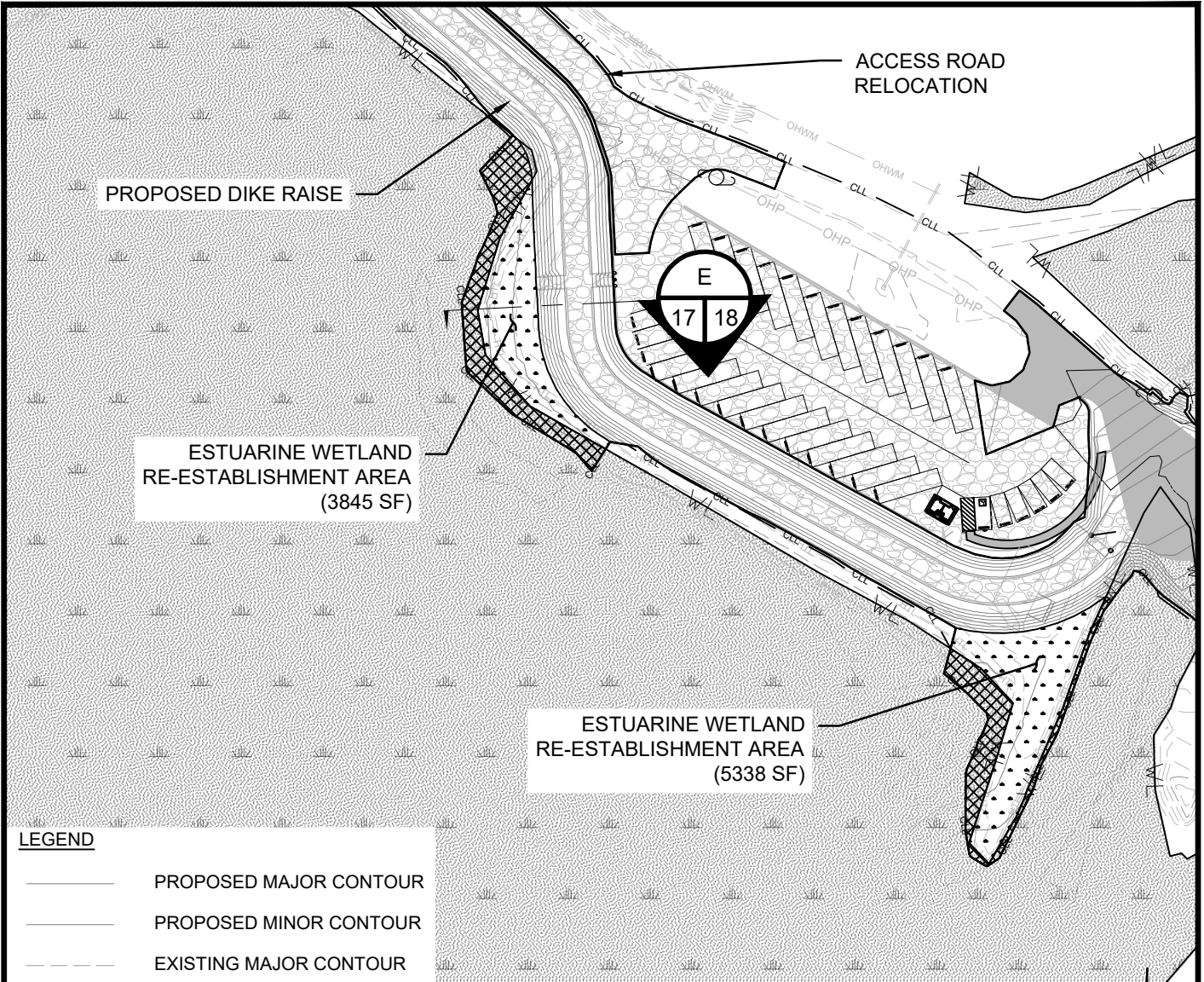
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: ESTUARINE WETLAND RE-ESTABLISHMENT AREA (1)

DATE: OCT. 15, 2021

SHEET 16 OF 22



LEGEND

	PROPOSED MAJOR CONTOUR		PAVEMENT
	PROPOSED MINOR CONTOUR		ESTUARINE WETLAND RE-ESTABLISHMENT AREA
	EXISTING MAJOR CONTOUR		TEMPORARY WETLAND IMPACT
	EXISTING MINOR CONTOUR		
	CONSTRUCTION LIMIT LINE (CLL)		
	ORDINARY HIGH WATER (OHWM)		
	MEAN HIGH WATER (MHW) (7.83')		
	HIGH TIDE LEVEL (HTL) (11.20')		
	WETLANDS		
	CRUSHED SURFACING BASE COURSE (CSBC)		

NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. ESTUARINE RE-ESTABLISHMENT WILL MITIGATE PERMANENT ESTUARINE WETLAND IMPACTS ASSOCIATED WITH THIS DIKE REPAIR PROJECT. THE WDFW SKAGIT WLA RAMP REPLACEMENT PROJECT (NWS-2020-266) AND WDFW SPUR DIKE REPAIR PROJECT (NWS-2020-238).

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

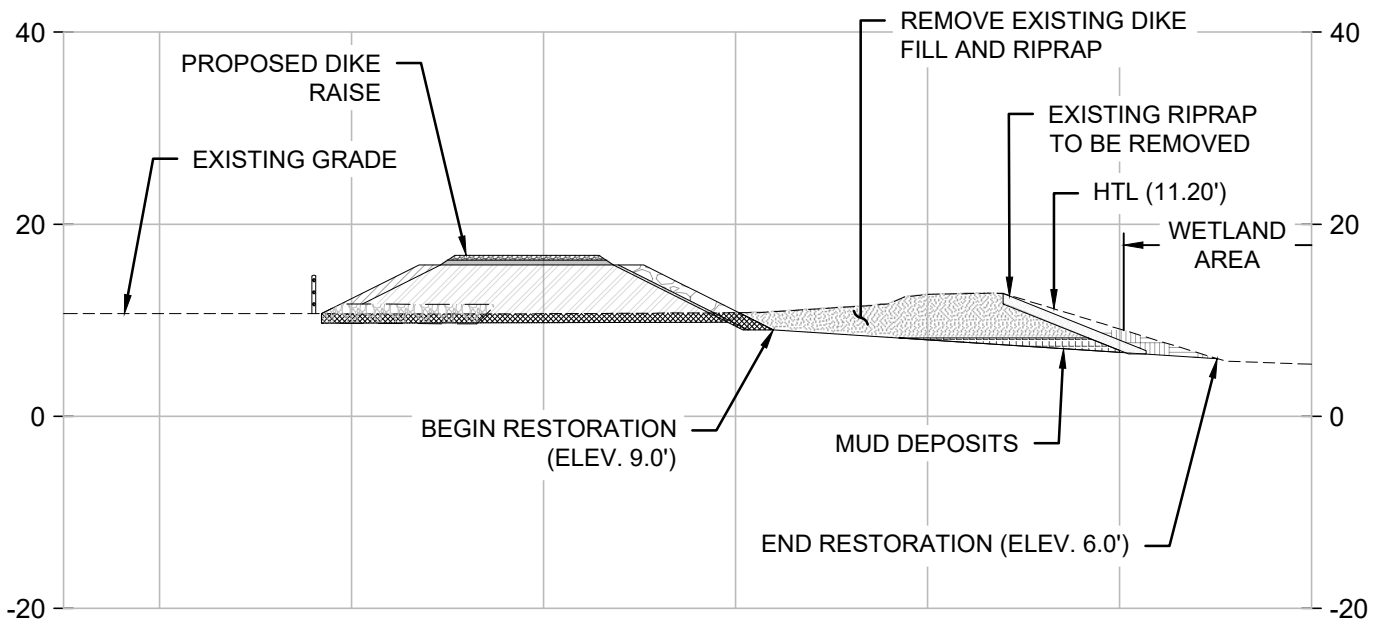
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

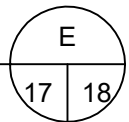
TITLE: ESTUARINE WETLAND RE-ESTABLISHMENT AREA (2)

DATE: OCT. 15, 2021

SHEET 17 OF 22

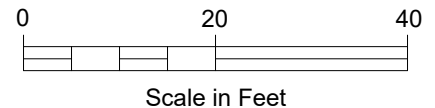


TYPICAL ESTUARINE WETLAND RE-ESTABLISHMENT SECTION



LEGEND

- EXISTING GRADE
- DESIGN GRADE
- [Hatched pattern] DIKE SELECT BORROW
- [Cross-hatched pattern] CRUSHED SURFACING BASE COURSE (CSBC) (6")
- [Solid grey] BALLAST (6")
- [Dotted pattern] GRUB (STRIP) EXISTING DIKE SURFACE (1')
- [Horizontal line pattern] HORIZONTAL DRAINAGE BLANKET
- [Vertical line pattern] FILTER BLANKET (3")
- [Stippled pattern] RIPRAP BLANKET
- [Diagonal line pattern] TOPSOIL TYPE B (1')
- [Horizontal line pattern] EXISTING ESTUARINE WETLAND SOIL
- [Grid pattern] MUDFLAT DEPOSITS



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. MUDFLAT DEPOSITS ARE ASSUMED AND APPROXIMATED BASED ON LIMITED GEOTECHNICAL EXPLORATION DATA.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

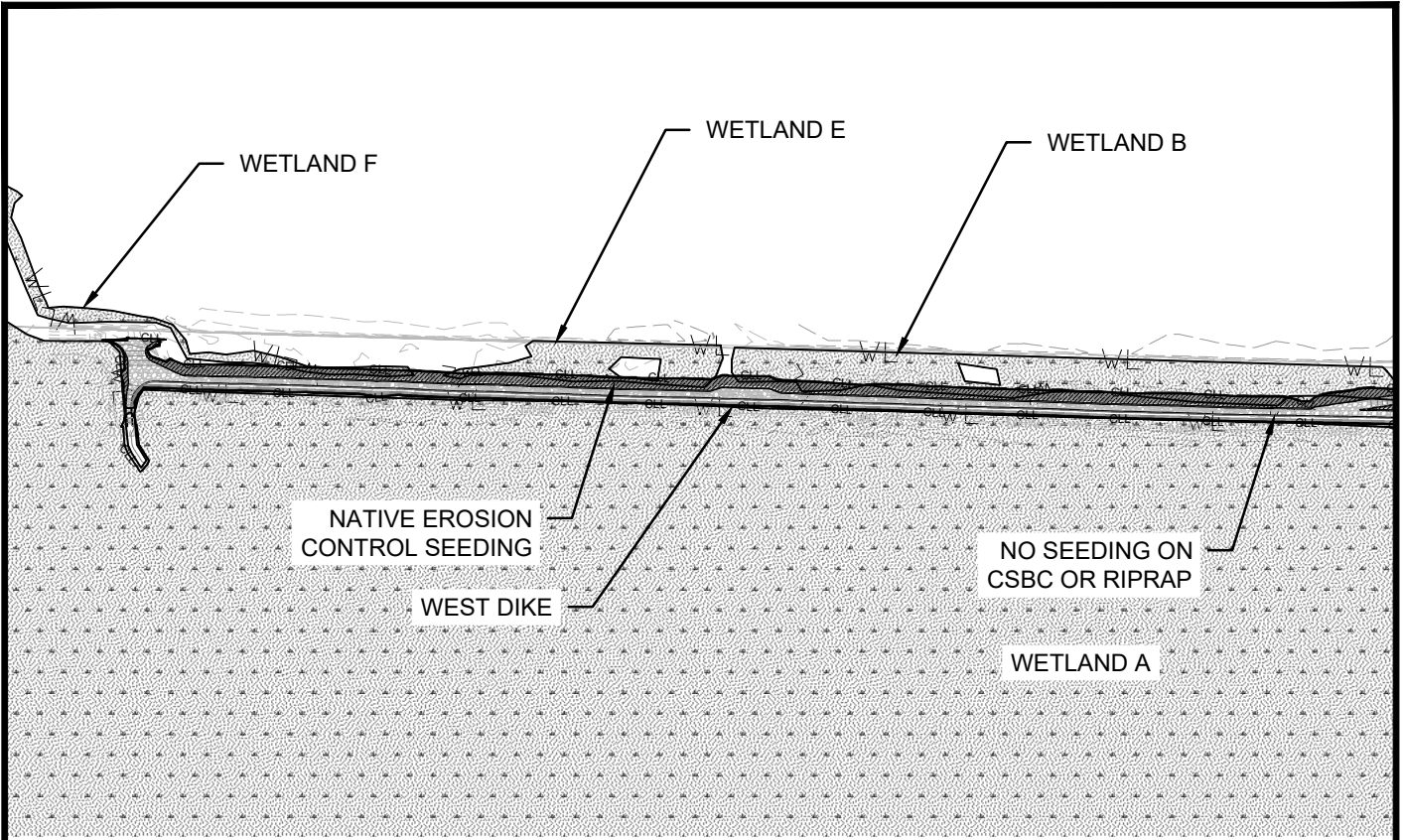
PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: TYPICAL ESTUARINE WETLAND RE-ESTABLISHMENT SECTION

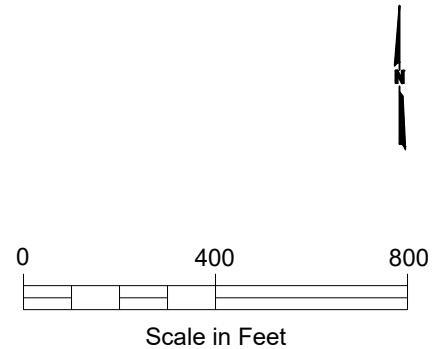
DATE: OCT. 15, 2021

SHEET 18 OF 22



LEGEND

	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	CONSTRUCTION LIMIT LINE (CLL)
	ORDINARY HIGH WATER (OHWM)
	MEAN HIGH WATER (MHW) (7.83')
	HIGH TIDE LEVEL (HTL) (11.20')
	WETLANDS
	CRUSHED SURFACING BASE COURSE (CSBC)
	PAVEMENT
	NATIVE EROSION CONTROL SEEDING



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. NATIVE WETLAND SEED MIX SHALL BE USED TO RESTORE TEMPORARILY IMPACTED PALUSTRINE (LANDWARD) WETLANDS.
8. NATIVE EROSION CONTROL SEEDING WILL BE APPLIED IN THE TEMPORARILY IMPACTED BUFFER ASSOCIATED WITH BMP INSTALLATION ON BOTH SIDES OF THE DIKE.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

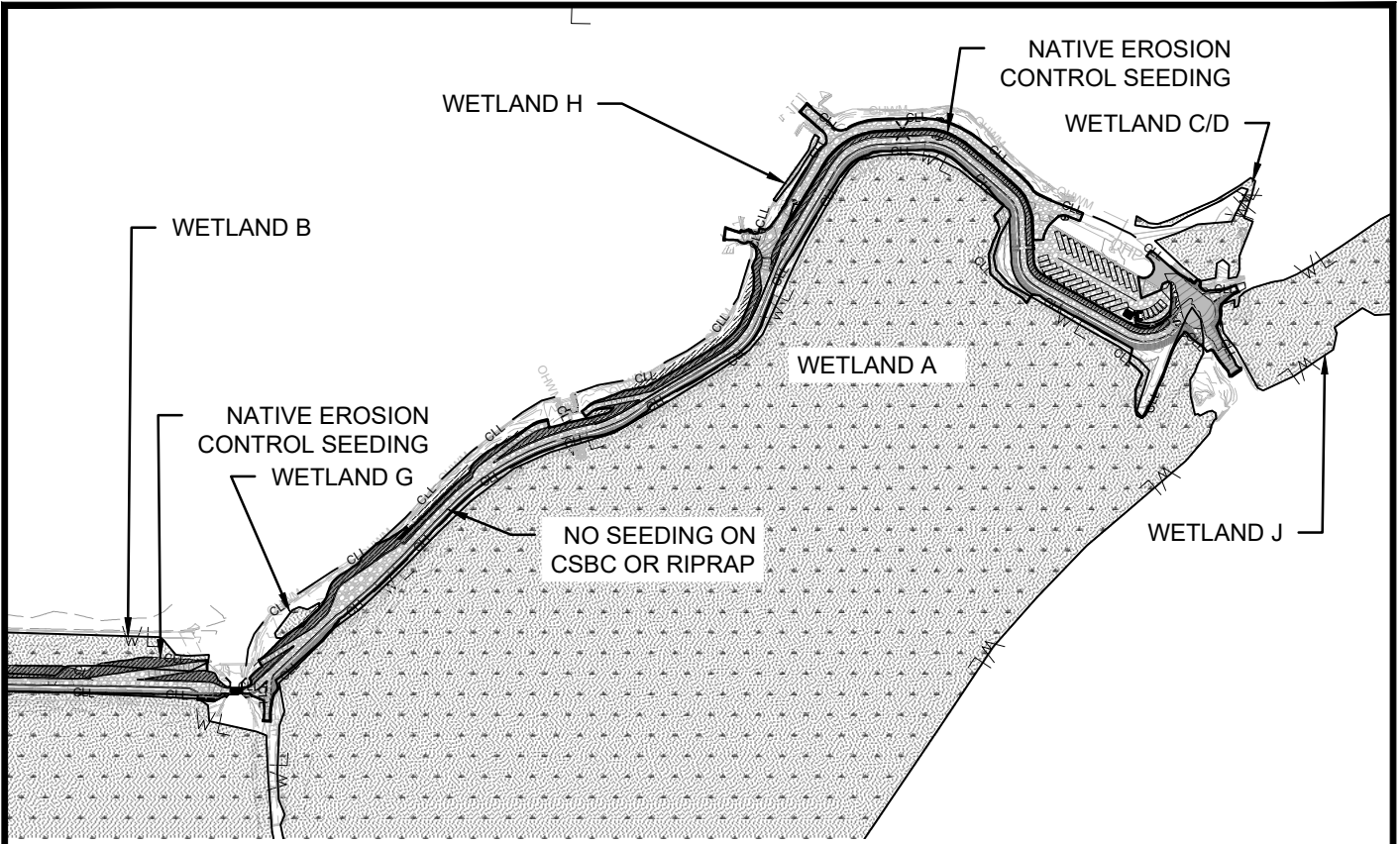
LOCATION: SKAGIT COUNTY

TITLE: SEEDING & RESTORATION (1)

DATE: OCT. 15, 2021

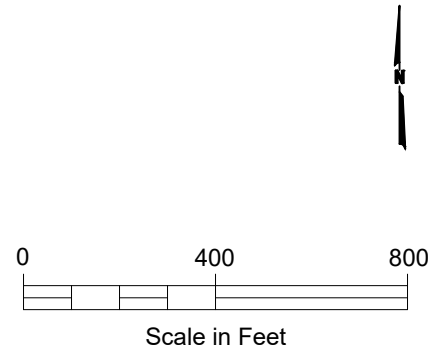
SHEET 19 OF 22

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LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- CLL — CONSTRUCTION LIMIT LINE (CLL)
- OHWM — ORDINARY HIGH WATER (OHWM)
- MHW — MEAN HIGH WATER (MHW) (7.83')
- HTL — HIGH TIDE LEVEL (HTL) (11.20')
- WETLANDS
- CRUSHED SURFACING BASE COURSE (CSBC)
- PAVEMENT
- NATIVE EROSION CONTROL SEEDING



NOTES

1. VERTICAL PROJECT DATUM: NAVD88
2. HORIZONTAL PROJECT DATUM: NAD83 WASHINGTON STATE PLANE, NORTH ZONE, US FOOT
3. SURVEY SOURCE: WDFW SURVEY DATED JAN. 06, 2020 & NOV. 17, 2019
4. TIDAL DATUM: NAVD88
 - 4.1. NAVD88 = MHW + 7.83'
 - 4.2. NAVD88 = HTL + 11.20'
5. REF STATION: LA CONNER, SWINOMISH SLOUGH TIDE STATION 9448558
6. HTL ELEVATION PROVIDED BY THE US ARMY CORPS.
7. NATIVE WETLAND SEED MIX SHALL BE USED TO RESTORE TEMPORARILY IMPACTED PALUSTRINE (LANDWARD) WETLANDS.
8. NATIVE EROSION CONTROL SEEDING WILL BE APPLIED IN THE TEMPORARILY IMPACTED BUFFER ASSOCIATED WITH BMP INSTALLATION ON BOTH SIDES OF THE DIKE.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: SEEDING & RESTORATION (2)

DATE: OCT. 15, 2021

SHEET 20 OF 22

NATIVE EROSION CONTROL SEED MIX

BOTANICAL NAME	COMMON NAME	% BY WEIGHT	SEEDS PER LB OF MIX	SEEDS PER LB	LBS/ACRE
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	30	25,500	85,000	13.2
BROMUS CARINATUS	CALIFORNIA BROME	25	25,000	100,000	11.0
FESTUCA RUBRA RUBRA	NATIVE RED FESCUE	20	100,000	500,000	8.8
ELYMUS GLAUCUS	BLUE WILDRYE	20	22,000	110,000	8.8
DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	3	45,000	1,500,000	1.3
AGROSTIS EXERATA	SPIKE BENTGRASS	2	76,000	3,800,000	0.9
TOTAL		100	293,500	6,095,000	44.0

NOTE: SEED MIX SOURCED FROM SUNMARK SEEDS, INC. SPECIES AND ASSOCIATED PROPORTIONS MAY BE MODIFIED WITH SUITABLE NATIVE ALTERNATIVES AS NEEDED. NATIVE EROSION CONTROL SEED MIX SHALL BE APPLIED AT 44 POUNDS PER ACRE. SEED MIX SHALL BE HYDRAULICALLY APPLIED IN COMBINATION WITH A WOOD CELLULOSE FIBER MULCH.

NATIVE PALUSTRINE WETLAND (LANDWARD) SEED MIX

BOTANICAL NAME	COMMON NAME	% BY WEIGHT	SEEDS PER LB OF MIX	SEEDS PER LB	LBS/ACRE
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	35	29,750	85,000	15.3
GLYCERIA OCCIDENTALLIS	NORTHWESTERN MANNAGRASS	20	40,200	201,000	8.7
FESTUCA RUBRA RUBRA	NATIVE RED FESCUE	20	95,000	475,000	8.7
ALOPECURUS GENICHAULTIUS	WATER FOXTAIL	13	64,350	495,000	5.7
ELEOCHARIS PALUSTRIS	COMMON SPIKERUSH	5	31,000	620,000	2.2
BECKMANNIA SYZIGANCHE	AMERICAN SLOUGHGRASS	4	46,000	1,150,000	1.7
DESCHAMPSIA CAESPITOSA	TUFTED HAIRGRASS	2.50	62,500	2,500,000	1.1
AGROSTIS EXERATA	SPIKE BENTGRASS	0.50	19,000	3,800,000	0.2
TOTAL		100	387,800	9,326,000	43.6

NOTE: SEED MIX SOURCED FROM SUNMARK SEEDS, INC. SPECIES AND ASSOCIATED PROPORTIONS MAY BE MODIFIED WITH SUITABLE NATIVE ALTERNATIVES AS NEEDED. NATIVE WETLAND SEED MIX SHALL BE APPLIED TO TEMPORARILY IMPACTED PALUSTRINE WETLANDS AT 44 POUNDS PER ACRE. SEED MIX SHALL BE HYDRAULICALLY APPLIED IN COMBINATION WITH A WOOD CELLULOSE FIBER MULCH.

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

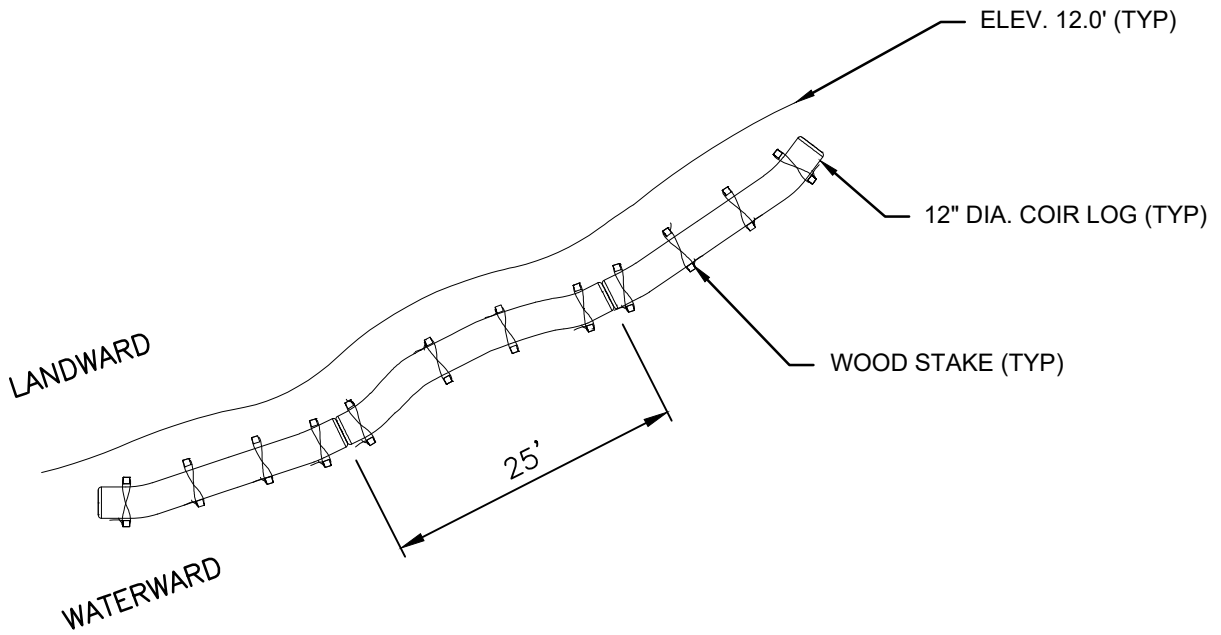
LOCATION: SKAGIT COUNTY

TITLE: PLANTING SCHEDULE

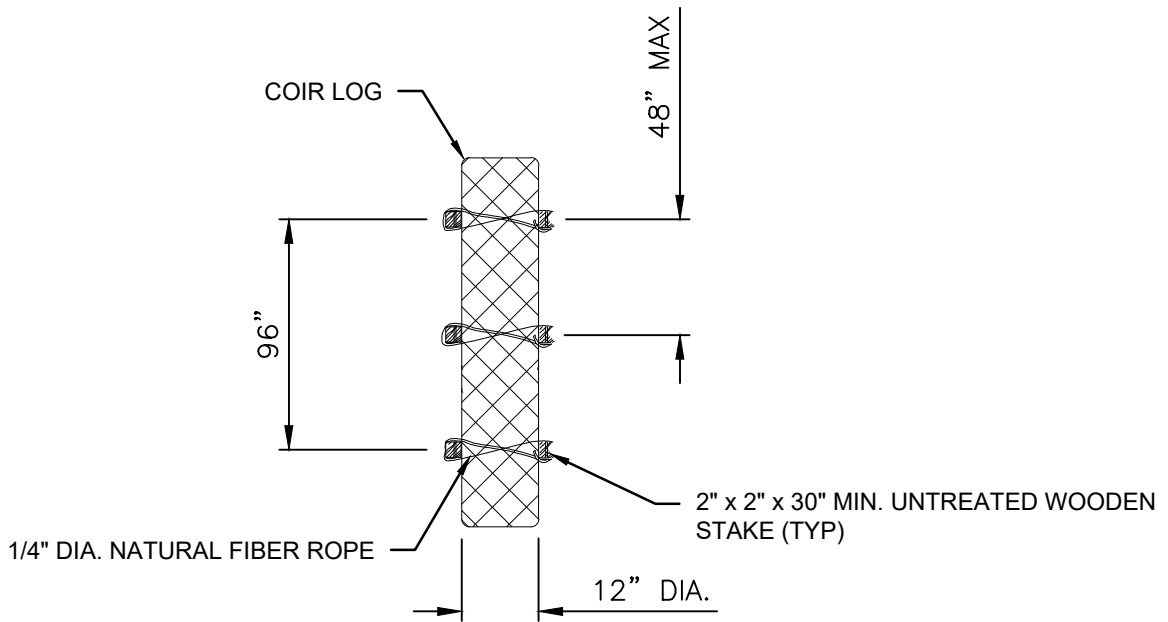
DATE: OCT. 15, 2021

SHEET 21 OF 22

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COIR LOG PLAN VIEW



COIR LOG DETAIL

CORPS REF NO: NWS-2021-460

APPLICANT: WDFW

PROPOSED PROJECT:
WILEY DIKE REPAIR

LOCATION: SKAGIT COUNTY

TITLE: COIR LOG DETAIL

DATE: OCT. 15, 2021

SHEET 22 OF 22