

ENVIRONMENTAL PERMIT SHEET (CORPS OF ENGINEERS SHEET)

PROJECT NAME:	
PURPOSE:	REFERENCE:
PROPOSED:	APPLICANT:
LOCATION:	COUNTY:
DATUM:	NEAR:
ADJACENT PROPERTY OWNERS:	WATER BODY:
	DATE:



Washington State
Department of Transportation

SHEET: OF:

GENERAL TYPES OF SHEETS FOR ENVIRONMENTAL PERMIT:

VICINITY MAP

INCLUDE DRIVING DIRECTIONS, PROJECT LOCATION,
SECTION / TOWNSHIP / RANGE, LATITUDE / LONGITUDE

PROJECT LAYOUT

PLAN VIEW OF WORK AREA WITH SHEET LOCATIONS

IMPACT PLAN

IMPACTS SUMMARY CHART (SENSITIVE AREA, ACRES / SQ FT)

STREAM PLAN WITH LARGE WOODY DEBRIS (LWM) & DETAILS

PROPOSED CROSS SECTIONS OF STREAM, CULVERT / BRIDGE

CROSS SECTION OF EVERY UNIQUE FEATURE WITHIN THE CULVERT
WITH DIMENSIONS - WIDTH, HEIGHT, THALWEG TO TOP CULVERT.
ONE CROSS SECTION UPSTREAM AND DOWNSTREAM UNLESS
SAME ON BOTH SIDES.
SHOW AND LABEL ANY FOOTINGS, SAND LAYERS, BARBS, ETC
THE CROSS SECTION LABELING (A-A, B-B) SHOULD START UPSTREAM
AND MOVE DOWNSTREAM IN ALPHABETICAL ORDER.

PROPOSED CHANNEL CENTERLINE PROFILE

STREAMBED SEDIMENT & FINE BAND MATERIAL CHARTS

COURSE BAND PLAN & DETAILS

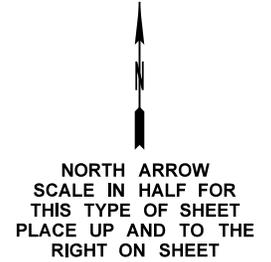
STREAMBED BOULDER DETAILS

SCOUR PROTECTION PLAN

CONCEPTUAL STREAM BYPASS / DIVERSION PLAN

RESTORATION PLAN

INFORMATION FROM THE LANDSCAPE PLANS



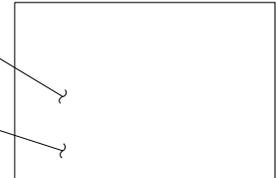
STREAM CROSS SECTIONS

(SHEET TITLE TEXT SIZE 0.14, #217 ARIALBD)

PROPOSED TEXT
SIZE 0.07, #217 ARIALBD

EXISTING TEXT
SIZE 0.07, #164 ARIALI

TEXT SAMPLES



SECTION C-C

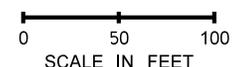
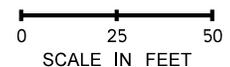
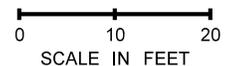
(TITLE TEXT SIZE 0.10, #217 ARIALBD)

NOTES: TIPS AND TRICKS

- ENVIRONMENTAL PERMIT DOES NOT FOLLOW PS&E PLANS GUIDELINES. CREATE A SEPARATE FOLDER STRUCTURE IN CADD FOR ENVIRONMENTAL PERMIT. ENVIRONMENTAL PERMIT SHEETS ARE PRINTED IN COLOR.
- ONCE THE PS&E PROJECT STREAM IS DESIGNED, COPY BASEMAP TO ENVIRONMENTAL PERMIT FOLDER. CHANGES THEN CAN BE MADE TO THE ENVIRONMENTAL PERMIT BASEMAP. SOME COLORS, LINE WEIGHTS WILL NEED TO BE CHANGED.
- ENVIRONMENTAL PERMIT IS A STORY OF WHAT IS HAPPENING TO THE STREAM AND WETLANDS. FOR CLEAR, EASY TO READ ENVIRONMENTAL PERMIT'S, PRINT EVERYTHING IN BLACK AND WHITE WITH ONLY THE FOCAL OF THAT SHEET IN COLOR. EXAMPLE: OHW (ORDINARY HIGH WATER LINE) MAY NOT BE THE FOCAL ON ONE SHEET (CHANGE TO BLACK/WHITE) WHILE ON ANOTHER SHEET IT IS THE FOCAL (CHANGE COLOR TO PRINTABLE COLOR LIKE DARK BLUE)
- CLEAN UP ANY EXISTING LINES AND ELEMENTS NOT NEEDED FOR THE SHEET OR DELETE FROM BASEMAP.
- PLACE THE HATCHING SHAPES ON THE SHEET WITH APPROPRIATE SCALE.
- GATHER THE STREAM PLANS, PROFILES AND DETAILS FROM THE HYDRAULIC OR CONSULTANT GROUPS. USE THE DETAILS FOR YOUR ENVIRONMENTAL PERMIT. CHANGE SOME OF THE COLORS FOR DISTINCTION BETWEEN ELEMENTS. CHANGE REST OF ELEMENTS TO BLACK/WHITE. (SEE EXAMPLE PROJECTS).
- RESCALE SOME OF THE STANDARD PS&E CELLS, NORTH ARROW, DATUM ETC TO FIT THE HALF SHEET.



POPULAR SCALES



SHEET USED FOR ENVIRONMENTAL PERMIT PLANS
NAME TYPE - CORPS OF ENGINEERS SHEET

PROJECT NAME:	REFERENCE:
PURPOSE:	APPLICANT:
PROPOSED:	COUNTY:
LOCATION:	NEAR:
DATUM:	WATER BODY:
ADJACENT PROPERTY OWNERS:	DATE:



**Washington State
Department of Transportation**

SHEET: OF:

C:\AAWork\Home Folder\JARPA Custom Symbol Library T drive\Master Files\JARPA 2021\2021 JARPA custom lines and cells.dgn

100 SCALE



BUFFER ENHANCEMENT



BUFFER PRESERVATION



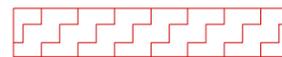
BUFFER RESTORATION



BUFFER IMPACT PERMANENT



BUFFER IMPACT TEMPORARY



CONVERSION BUFFER TO STREAM



CONVERSION BUFFER TO WETLAND



CONVERSION STREAM TO BUFFER



CONVERSION STREAM TO WETLAND



CONVERSION WETLAND TO BUFFER



CONVERSION WETLAND TO STREAM



MUDFLATS IMPACT PERMANENT



MUDFLATS IMPACT TEMPORARY



RIFFLE POOL COMPLEX IMPACT PERMANENT



RIFFLE POOL COMPLEX IMPACT TEMPORARY



ROCK CLASS B FOR EROSION SCOUR



ROCK QUARRY SPALLS

100 SCALE



STREAM IMPACT PERMANENT



STREAM IMPACT TEMPORARY



STREAM RESTORATION



WETLAND ENHANCEMENT



WETLAND ESTABLISHMENT



WETLAND IMPACT INDIRECT



WETLAND IMPACT PERMANENT



WETLAND IMPACT SHADING



WETLAND IMPACT TEMPORARY LONG TERM



WETLAND IMPACT TEMPORARY SHORT TERM



WETLAND PRESERVATION



WETLAND REESTABLISHMENT



WETLAND RESTORATION



AREA OF POTENTIAL EFFECT LEFT



AREA OF POTENTIAL EFFECT RIGHT



IMPERVIOUS AREA



JURISDICTIONAL DITCH LINE



NON JURISDICTIONAL DITCH LINE



PERVIOUS AREA



ROADWAY RECLAMATION

NEW ENVIRONMENTAL TEXT
(TEXT STYLE 217 ARIALBD, SIZE 0.07)

ENVIRONMENTAL TEXT

EXISTING ENVIRONMENTAL TEXT
(TEXT STYLE 164 ARIALI, SIZE 0.07)

EXISTING ENVIRONMENTAL TEXT

LEGEND

WSDOT FEATURES - PSE PLANS EV_ENVIRONMENTAL EP_ENVIRONMENTAL PERMITS

FILE NAME C:\AAWork\Home Folder\JARPA Custom Symbol Library T drive\Master Files\JARPA 2021\2021 JARPA custom lines and cells.dgn				Plot 26	
TIME 3:17:11 PM			REGION NO. 10	STATE WASH	FED.AID PROJ.NO.
DATE 12/21/2022			JOB NUMBER		
PLOTTED BY moejk			CONTRACT NO.	LOCATION NO.	
DESIGNED BY					
ENTERED BY					
CHECKED BY					
PROJ. ENGR.	UPDATE ENVIRONMENTAL PERMIT LIBRARY	1-3-2022	MOE		
REGIONAL ADM.	REVISION	DATE	BY		



DATE _____
P.E. STAMP BOX

SHEET
OF
SHEETS

NEW

EXISTING
(SAMPLE- existing PS&E color #87 have been changed due to color printing. Change elements to a color that prints well)

	100 YR	100 YEAR FLOOD
	500 YR	500 YEAR FLOOD
		BIOFILTRATION SWALE
		BUFFER
		EMERGENT FRESH MARSH
	THSM	ESTUARY ITIDAL HI SALT MARSH
	TLSM	ESTUARY STIDAL LO SALT MARSH
		FORESTED
		HIGH TIDE LINE FLAG
		OPEN FRESH POND
		SCRUB SHRUB
		SCRUB SHRUB FORESTED
		STORMWATER TREATMENT
		WATER EDGE RIVER
		WATER EDGE STREAM

NEW

EXISTING
(SAMPLE- existing PS&E color #87 have been changed due to color printing. Change elements to a color that prints well)

	HTL	WATER LINE HIGH TIDE
	MHW	WATER LINE MEAN HIGH
	MHHW	WATER LINE MEAN HIGHER HIGH
	MLW	WATER LINE MEAN LOW
	MLLW	WATER LINE MEAN LOWER LOW
		WATER LINE NORMAL HIGH MAXIMUM LAKE LEVEL
	OHW	WATER LINE ORDINARY HIGH
		WATER LINE ORDINARY HIGH FLAG
	WB	WETLAND BOUNDARY
		WETLAND CONSTRUCTED
		WETLAND SAMPLE FLAG
		WETLAND SYMBOL

WETLANDS TEXT
(TEXT STYLE 217 ARIALBD, SIZE 0.07)

WETLANDS TEXT
(TEXT STYLE 164 ARIALI, SIZE 0.07)

WSDOT CELL LIBRARY LEGEND WSDOT FEATURES - PSE PLANS EV_ENVIRONMENTAL WL_WETLANDS

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DATE 12/21/2022		JOB NUMBER								SHEET	
PLOTTED BY moejk		CONTRACT NO.		LOCATION NO.						OF	
DESIGNED BY		DATE 1-3-2022		BY MOE						SHEETS	
ENTERED BY		REVISION		DATE		BY					
CHECKED BY		UPDATE ENVIRONMENTAL PERMIT LIBRARY		1-3-2022		MOE					
PROJ. ENGR.		REGIONAL ADM.									



P.E. STAMP BOX DATE

NEW

EXISTING

(SAMPLE- existing PS&E color #87 have been changed due to color printing. Change elements to a color that prints well)



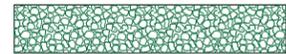
BOULDER ANCHOR



BOULDER



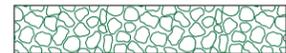
LOG



ROCK FOR EROSION SCOUR PROTECTION



ROCK MATERIAL



ROCK QUARRY SPALLS



ROCK RIPRAP



ROCK STREAMBED MATERIAL



SLOPE

SLOPE TEXT
(TEXT STYLE 217 ARIALBD, SIZE 0.09)

EXISTING SLOPE TEXT
(TEXT STYLE 164 ARIALI, SIZE 0.07)

SLOPE TEXT



STREAM SLOPE BREAK

EXISTING SURFACE ELEVATION TEXT
(TEXT STYLE 164 ARIALI, SIZE 0.07)

WATER SURFACE ELEVATION

NEW

EXISTING



CLEAR PRUNE GRUB SELECTIVE



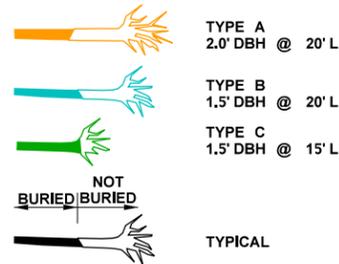
CLEAR PRUNE SELECTIVE



CLEAR SELECTIVE

WSDOT CELL LIBRARY LEGEND
WSDOT FEATURES - PSE PLANS
EV_ENVIRONMENTAL
LS_LANDSCAPE

LARGE WOODY MATERIAL
LEGEND



WSDOT CELL LIBRARY LEGEND
WSDOT FEATURES - PSE PLANS
EV_ENVIRONMENTAL
RH_RIVER HYDRAULICS

FILE NAME	C:\AAWork\Home Folder\JARPA Custom Symbol Library T drive\Master Files\JARPA 2021\2021 JARPA custom lines and cells.dgn										Plot 28
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DATE	12/21/2022										SHEET
PLOTTED BY	moejk										
DESIGNED BY											SHEETS
ENTERED BY											
CHECKED BY											
PROJ. ENGR.	UPDATE ENVIRONMENTAL PERMIT LIBRARY			1-3-2022	MOE	REGION NO.	STATE	FED.AID PROJ.NO.		DATE	P.E. STAMP BOX
REGIONAL ADM.	REVISION			DATE	BY	10	WASH	LOCATION NO.		DATE	
<p>Washington State Department of Transportation</p>											

NEW

EXISTING
(SAMPLE- existing PS&E color #87 have been changed due to color printing. Change elements to a color that prints well)

NEW

EXISTING
(SAMPLE- existing PS&E color #23 have been changed due to color printing. Change elements to a color that prints well)

	CONTRACTOR SENSITIVE AREA
	BARRIER BRUSH
	BERM COMPOST
	BERM GRAVEL FILTER
	BIO RETENTION
	CHECK DAM BIODEGRADABLE
	CHECK DAM NON BIODEGRADABLE
	COMPOST FILTER SOCK
	CONSTRUCTION ENTRANCE
	CONSTRUCTION ENTRANCE TIRE WASH
	DEWATERING AREA
	EROSION CONTROL TEXT
	FENCE HIGH VISIBILITY CONSTRUCTION
	FENCE HIGH VISIBILITY SILT
	FENCE SILT
	FENCE TURBIDITY CURTAIN
	FISH BLOCK NET
	INFILTRATION TRENCH

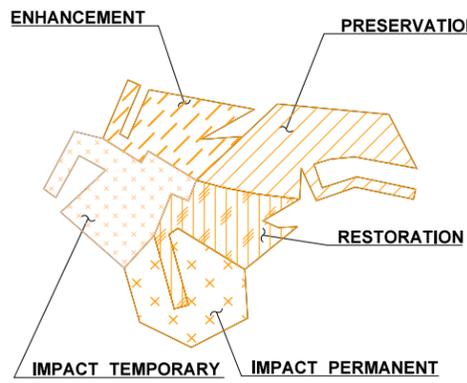
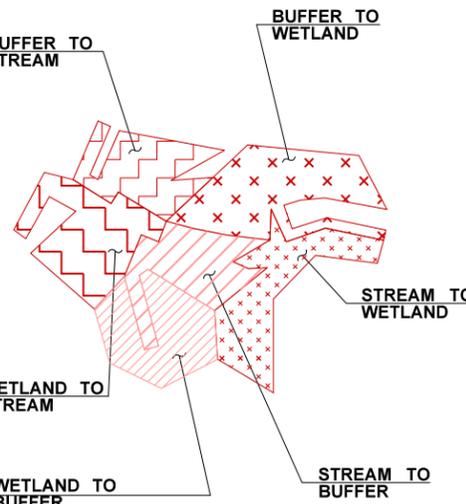
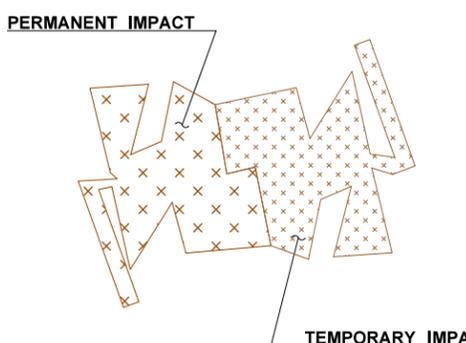
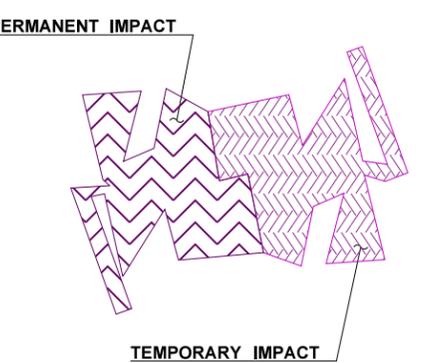
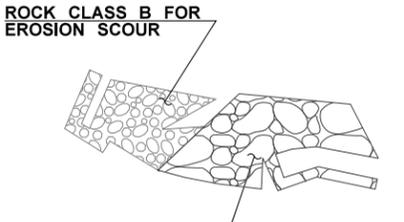
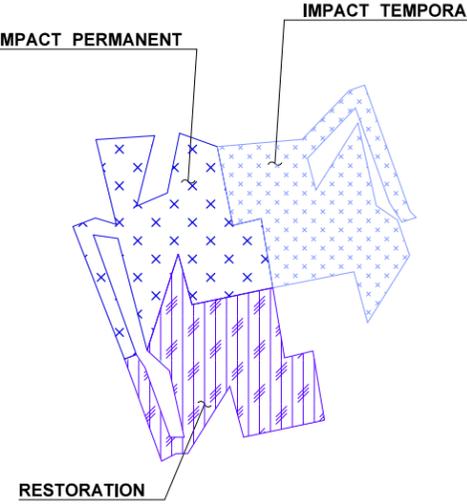
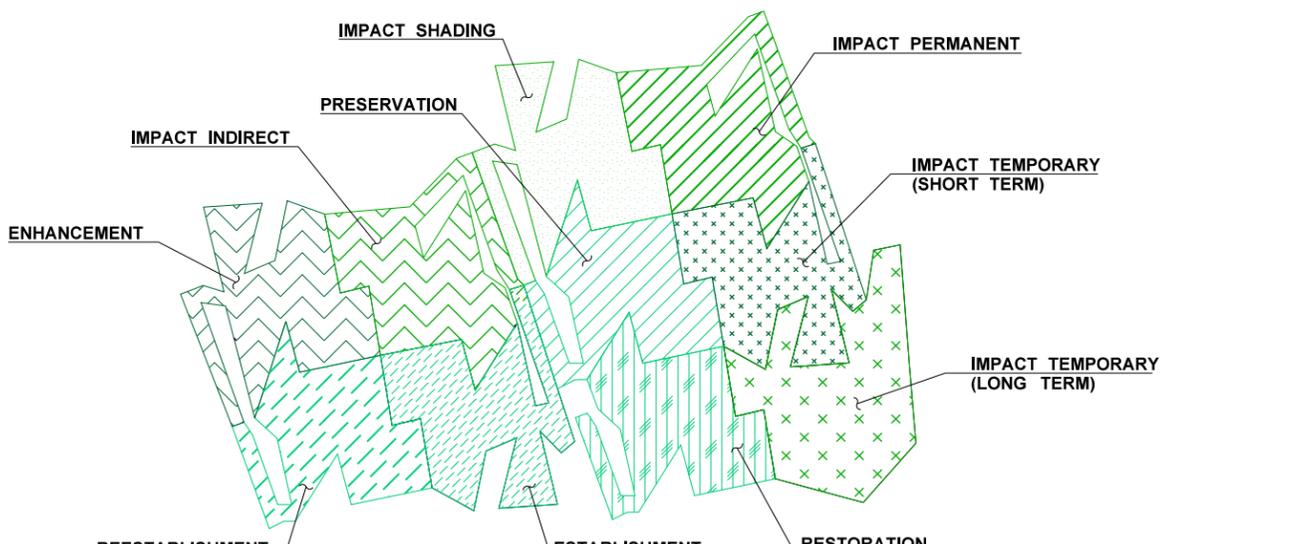
	INLET COVER
	INLET FILTER
	INLET INSERT
	INTERCEPTOR DIKE
	INTERCEPTOR SWALE
	LEVEL SPREADER
	MULCHING AND MATTING
	PIPE SLOPE DRAIN
	PLASTIC COVERING
	SAND BAG OR SACK
	SEDIMENT POND TEMPORARY
	SEDIMENT TRAP
	SEEDING EROSION CONTROL
	SEEDING TEMPORARY
	SOIL BINDER TACKING AGENT
	VEGETATIVE FILTER STRIP
	WATTLE

**WSDOT CELL LIBRARY LEGEND
WSDOT FEATURES - PSE PLANS
EV_ENVIRONMENTAL
EC_EROSION CONTROL**

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DATE 12/21/2022									
PLOTTED BY moejk									
DESIGNED BY									SHEET
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PERMIT APPLICATION PATTERN SAMPLE TABLE

BUFFER	CONVERSION	MUDFLATS	RIFFLE POOL COMPLEX	ROCK
				
STREAM	WETLAND			
				

NOTE:
IF PATTERN AREA IS TOO SMALL FOR HATCHING A SOLID FILL IN COLOR MAY BE USED

FILE NAME C:\AAWork\Home Folder\JARPA Custom Symbol Library T drive\Master Files\JARPA 2021\2021 JARPA custom lines and cells.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		DATE		Plot 36
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PLOTTED BY moejk	DESIGNED BY	JOB NUMBER								SHEET
ENTERED BY	CHECKED BY	CONTRACT NO.		LOCATION NO.						OF
PROJ. ENGR.	UPDATE ENVIRONMENTAL PERMIT LIBRARY	1-3-2022	MOE							SHEETS
REGIONAL ADM.	REVISION	DATE	BY							



