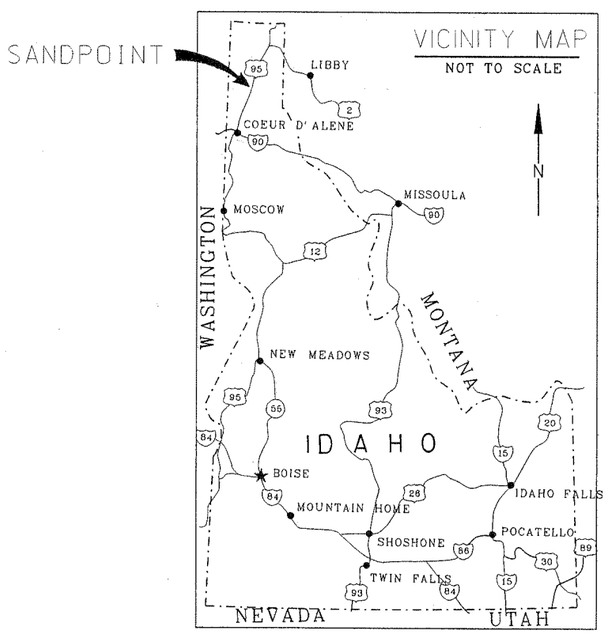
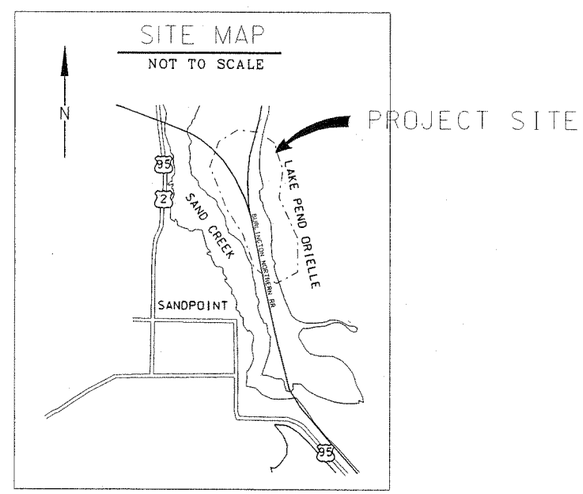
US Army Corps
of Engineers
Seattle District

ALBENI FALLS DAM SANDPOINT BANK STABILIZATION

SANDPOINT, IDAHO





FY06

SAFETY PAYS

This project was designed by the Seattle District U.S Army Corps of Engineers The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:40:40 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT1 HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

$$$RESIZE$$$$$$$$$$$$$$$$$$$$

PREPARED: DENNIS A. FISCHER, PE — CHIEF, CIVIL SOILS SECTION	U.S. ARMY ENGINEER DISTRICT, SEATTLE CORPS OF ENGINEERS SEATTLE, WASHINGTON
SUBMITTED: RICHARD J. WRIGHT, PE — PROJECT MANAGER	ALBENIFALLS DAM SANDPOINT BANK STABILIZATION
REVIEWED: DEAN M. SCHMIDT — CHIEF, TECH ENGINEERING AND REVIEW SECTION	TITLE, SITE & VICINITY MAPS
RECOMMENDED: OLTON SWANSON, PE — CHIEF, DESIGN BRANCH	SANDPOINT IDAHO
APPROVED: MARK A. OHLSTROM, PE — CHIEF, ENGINEERING & CONSTRUCTION DIVISION	SIZE: D; INVITATION NO.; FILE NO.: E-52-1-59; DATE: 6 SEP 07; PLATE: G-1; DSGN.: DESJARDIN; CHK.: KAISER; SHEET: 1

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. AN ACCESS ROAD ALONG THE TOP OF BANK WILL BE CONSTRUCTED AS NECESSARY TO FACILITATE MATERIAL DELIVERY.

2. IT IS POSSIBLE CONSTRUCTION WILL TAKE PLACE OVER MULTIPLE CONSTRUCTION SEASONS.

3. CONSTRUCTION WILL START AT SOUTH END OF PROJECT FOOT PRINT AND PROCEED NORTH.

4. FILTER FABRIC WILL PLACED ALONG ALIGNMENT AS NECESSARY.

5. ANY SUITABLE LARGE WOODY DEBRIS (LWD) ON SITE WILL BE INCORPORATED INTO PROJECT AS SHOWN ON DETAIL VIEW ON PLATE C-9.

6. SECTIONS A AND O ARE TIE-INS TO EXISTING BANK PROTECTION. TYPICAL SECTIONS ARE AVERAGE REPRESENTATIONS. SECTIONS

7. ABANDONED CAR BODIES, TANKS AND OTHER DEBRIS ENCOUNTERED IN CONSTRUCTION FOOTPRINT SHALL BE PROPERLY DISPOSED OF OFF SITE.

8. ALL ROCK SHALL BE SOUND, CLEAN, ANGULAR, DURABLE STONE. ROUNDED ROCKS ARE NOT ACCEPTABLE. THE LONGEST DIMENSION OF ANY STONE SHALL NOT EXCEED THREE TIMES ITS SHORTEST DIMENSION. ACCEPTABILITY OF STONES WILL BE DETERMINED BY VISUAL INSPECTION, LABORATORY TESTS, AND/OR GEOLOGIC INSPECTION.

LEGEND

- RIP-RAP
- GRAVEL
- EXCAVATE
- GATE POST W/ FENCE
- STORM DRAIN MANHOLE
- STORM DRAIN CULVERT PIPE
- DECIDUOUS TREE
- POWER POLE
- WOOD PILING
- FLAG POLE
- SURVEY SET NAIL
- SURVEY MONUMENT
- FENCE LINE
- RAILROAD RIGHT-OF-WAY
- WOOD PILING OUTLINE
- CONCRETE
- CONCRETE EDGE
- BANK PROTECTION LIMITS
- OLD CONCRETE FOUNDATIONS

DRAWING INDEX		
SHEET NO.	PLATE NO.	TITLE
1	G-1	TITLE, SITE & VICINITY MAPS
2	G-2	LEGEND, NOTES & DRAWING INDEX
3	C-1	SURVEY AND PROPERTY INFORMATION
4	C-2	SITE ACCESS PLAN - SOUTH
5	C-3	SITE ACCESS PLAN - NORTH
6	C-4	SURVEY AND OVERALL SITE PLAN - SOUTH
7	C-5	SURVEY AND OVERALL SITE PLAN - NORTH
8	C-6	SECTIONS A, B, C, D
9	C-7	SECTIONS E, F, G, H, I, J
10	C-8	SECTIONS K, L, M, N
11	C-9	SECTIONS O, P, Q, LWD DETAIL

FILTER MATERIAL #1
3" MINUS CRUSHED ROCK GRADATION:

SIEVE SIZE	% PASSING
3"	100
1"	70-90
1/2"	55-85
#4	35-75
#10	25-60
#40	15-40
#200	5-20

FILTER MATERIAL #2
QUARRY SPALLS
4" TO 6" CLEAN QUARRY SPALLS

1 1/4" MINUS GRAVEL
100% SMALLER THAN 1 1/4" INCH
50% SMALLER THAN 1"
15-20% PASSING # 200

RIP RAP GRADATION		
CLASS	IV	V
RIP RAP THICKNESS	36"	42"
100% SMALLER THAN	1000 LBS.	1500 LBS.
50% SIZE	400 LBS.	500 LBS.
90% LARGER THAN	200 LBS.	300 LBS.
10%	25-200 LBS.	50-300 LBS.

NOTES FOR GRADATION:

1. ASSUMING W=165 LB/FT^3

2. RIPRAP BLANKET ASSUMES 2H:1V SLOPE: FOR SLOPES GREATER THAN 2H:1V TO 1.5H :1V, USE SAME CLASS WITH DOUBLE THE THICKNESS.

3. ASSUMES THAT THE L/W RATIO OF THE ROCK IS NO GREATER THAN 3.

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

LEGEND, NOTES & DRAWING INDEX

SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	G-2
DSGN. DESJARDIN		CHK. KAISER	SHEET 2	

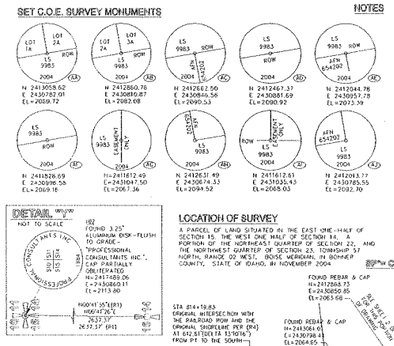
This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/17/2007 11:13:45 AM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT2HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

SET C.O.E. SURVEY MONUMENTS

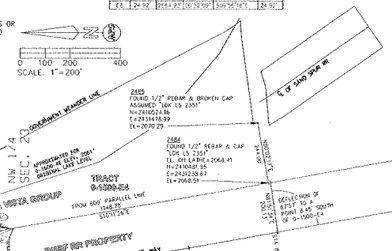


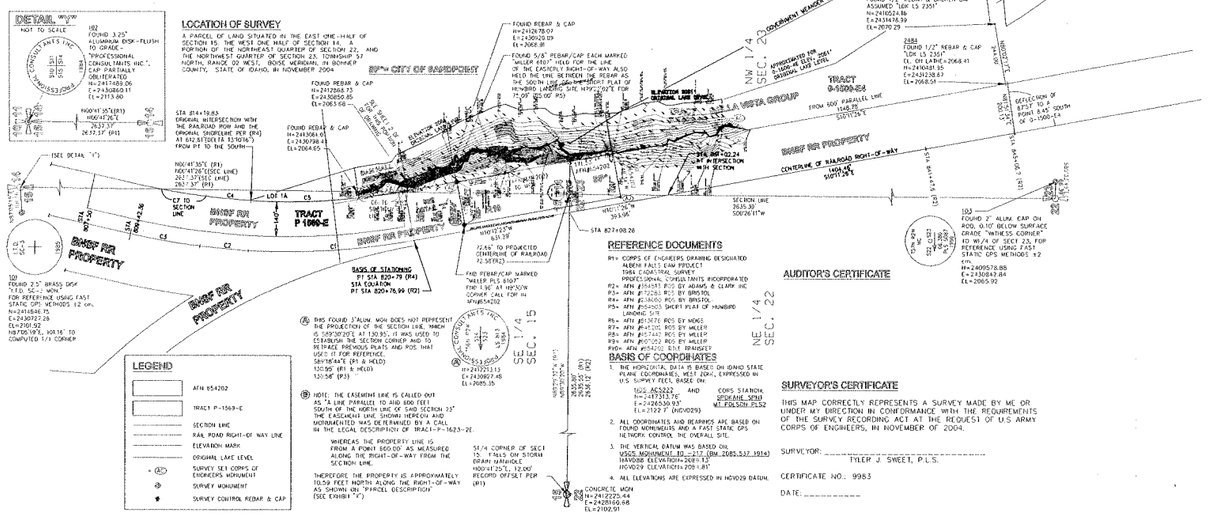
NOTES

1. THE SOLE PURPOSE OF THIS DRAWING IS TO SHOW THE PROPERTY DESCRIBED IN
   A. CITY OF SANDPOINT
      SANDPOINT TITLE INSURANCE, INC. COMMITMENT NO. 00041354
      DATED DEC. 02, 2004
   B. DAN HALL
      SANDPOINT TITLE INSURANCE, INC. COMMITMENT NO. 00041355
      DATED DEC. 02, 2004
   C. BURLINGTON NORTHERN AND SANTE FE RAILROAD
      FIRST AMERICAN TITLE INSURANCE COMPANY REFERENCE NO 910853
      DATED JUNE 23, 2004
2. THIS SURVEY WAS BASED ON A GPS CONTROL NETWORK NGS CONTROL MONUMENTATION NEAR THE SITE. A COMBINATION OF FAST STATIC AND REAL TIME GPS METHODS WERE INTERFIED WITH CONVENTIONAL TRAVERSE TO CREATE THE NETWORK. THIS NETWORK MEETS OR EXCEEDS THE ACCURACY STANDARDS SET BY WAC 332-130-090. ALL MONUMENTS FOUND HEREON WERE OCCUPIED ON OCTOBER AND NOVEMBER OF 2004.
3. THE PRIMARY INSTRUMENT WAS CALIBRATED IN OCTOBER 2003 AT THE KING COUNTY BASELINE.
4. THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION OF LAND.

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	418.69'	2864.93'	12°01'16"	S03°13'13"E	417.94'
C2	193.06'	2377.83'	02°52'57"	S05°31'00"W	192.99'
C3	295.05'	2864.93'	05°54'00"	S06°49'38"W	294.94'
C4	178.69'	3625.30'	02°49'12"	S06°33'44"W	178.79'
C5	424.23'	2464.93'	09°51'21"	S01°35'32"E	423.98'
C6	163.53'	2864.93'	03°31'09"	S07°54'44"E	163.54'
C7	68.53'	2464.93'	01°35'41"	S08°37'51"W	68.53'
C8	24.92'	2464.93'	00°32'09"	S09°56'18"E	24.92'





REFERENCE DOCUMENTS

R1= CORPS OF ENGINEERS DRAWING DESIGNATED NUMBER FALLS DAM PROJECT
THREE DIMENSIONAL SURVEY
PROFESSIONAL CONSULTANTS INCORPORATED
R2= AFN #1041551 POS BY ADAMS & CLARK INC
R3= AFN #1072861 POS BY BRISTOL
R4= AFN #1084060 POS BY BRISTOL
R5= AFN #1084063 SHORT PLAT OF HUMBIRD LANDING SITE
R6= AFN #1136776 POS BY MOKES
R7= AFN #1147205 POS BY WILLER
R8= AFN #1157440 POS BY WILLER
R9= AFN #1207052 POS BY WILLER
R10= AFN #654202 ESTA BRANDLET

BASIS OF COORDINATES

1. THE HORIZONTAL DATA IS BASED ON IDAHO STATE PLANE COORDINATES, WEST ZONE, EXPRESSED IN U.S. SURVEY FEET, BASED ON:
   NGS AG3222 AND CORS STATION SPOKANE NPW WGS PDR/SDN PL52
   N=2473313.76'
   E=2426539.93'
   EL=2122.7' (NGVD29)
2. ALL COORDINATES AND BEARINGS ARE BASED ON FOUND MONUMENTS AND A FAST STATIC GPS NETWORK CONTROL THE OVERALL SITE.
3. THE VERTICAL DATUM WAS BASED ON USGS MONUMENT BD-217 (BM 2085.537 1914) NAVDDB ELEVATION=2089.53 NGVD29 ELEVATION=2091.81'
4. ALL ELEVATIONS ARE EXPRESSED IN NGVD29 DATUM.

AUDITOR'S CERTIFICATE

SURVEYOR'S CERTIFICATE

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF U.S ARMY CORPS OF ENGINEERS, IN NOVEMBER OF 2004.

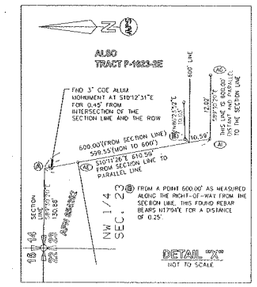
SURVEYOR: _____
TYLER J. SWEET, P.L.S.

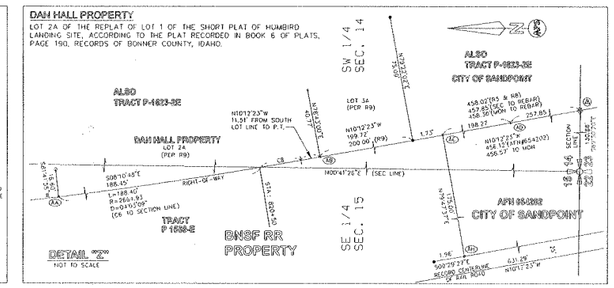
CERTIFICATE NO.: 9983

DATE: _____

NOTES

FOR FLOWAGE EASEMENT LEGAL DESCRIPTION, SEE PAGE 2
THESE INCLUDES:
AFN 654202
TRACT P-1569-E
TRACT P-1623-2E
TRACT 0-1500-AE
AND DAN HALL PROPERTY





FOR THE CITY OF SANDPOINT
SANDPAPER TITLE INSURANCE COMPANY
COMMITMENT NO. 00041354
DATED DEC 02, 2004

PARCEL 1:

LOT 3A OF REPLAT OF LOT 1 OF THE SHORT PLAT HUMBIRD LANDING SITE, ACCORDING TO THE PLAT THEREOF, RECORDED IN BOOK 6 OF PLATS, PAGE 190, RECORDS OF BONNER COUNTY, IDAHO

PARCEL 2:

LOT 2 OF A SHORT PLAT OF HUMBIRD LANDING SITE, ACCORDING TO THE PLAT THEREOF, RECORDED IN BOOK 6 OF PLATS, PAGE 68, RECORDS OF BONNER COUNTY, IDAHO.

EXCEPT A TRACT OF LAND LOCATED IN A PORTION OF LOT 2 LOT A SHORT PLAT OF HUMBIRD LANDING SITE, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 6 OF PLATS, PAGE 68, RECORDS OF BONNER COUNTY, IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 23:

THENCE NORTH 89°55'47" EAST ALONG THE NORTH LINE OF SAID SECTION A DISTANCE OF 130.95 FEET (RECORD= NORTH 89°54'00" EAST 130.58 FEET), MORE OR LESS, TO AN INTERSECTION WITH THE EAST RIGHT OF WAY OF THE BURLINGTON NORTHERN-SANTA FE RAILROAD;

THENCE SOUTH 10°45'10" EAST (RECORD= SOUTH 10°47'08" EAST) ALONG SAID RIGHT OF WAY A DISTANCE OF 171.59 FEET TO A POINT; SAID POINT BEING THE TRUE POINT OF BEGINNING;

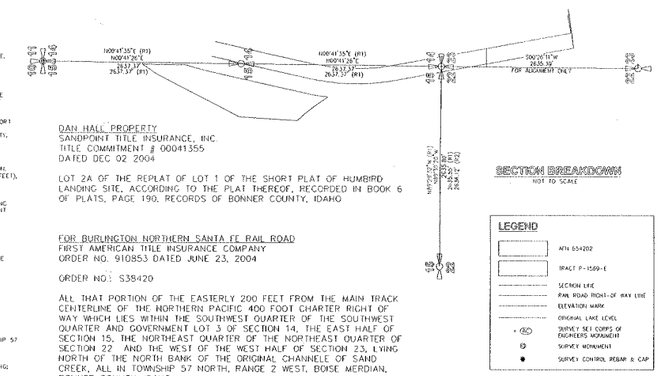
THENCE CONTINUING ALONG SAID RIGHT OF WAY SOUTH 10°45'10" EAST (RECORD= SOUTH 10°47'08" EAST) A DISTANCE OF 428.47 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2;

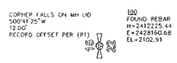
THENCE EAST (RECORD= NORTH 89°57'00" EAST) ALONG THE SOUTH LINE OF SAID LOT 2 TO AN INTERSECTION WITH THE ORIGINAL MEAN HIGH WATER LINE OF LAKE PEND OREILLE;

THENCE NORTHERLY ALONG SAID ORIGINAL MEAN HIGH WATER LINE TO A POINT THAT BEARS NORTH 79°45'50" EAST (RECORD=NORTH 79°43'52" EAST) FROM THE TRUE POINT OF BEGINNING;

PARCEL 3:

A PORTION OF LAND LOCATED IN SECTIONS 14, 15, 22 AND 23, TOWNSHIP 57 NORTH, RANGE 2 WEST, BOISE MERIDIAN, BONNER COUNTY, IDAHO
MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SECTION 23;
THENCE NORTH 89°54'00" EAST, 130.58 FEET TO THE POINT OF BEGINNING;
THENCE NORTH 10°47'08" WEST, 436.12 FEET;
THENCE SOUTH 79°12'52" WEST, 196.00 FEET;
THENCE SOUTH 10°47'08" EAST, 62.33 FEET;
THENCE NORTH 79°12'52" WEST, 170.00 FEET;
THENCE NORTH 10°47'08" WEST, 171.59 FEET TO THE POINT OF BEGINNING.





This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8162, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:41:41 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT3 HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

$$$RESIZE$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SURVEY AND PROPERTY INFORMATION

SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-1
DSGN. DESJARDIN		CHK. KAISER	SHEET 3	

MATCHLINE TO PLATE C-3

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:
1. TIE NEW BANK PROTECTION INTO EXISTING BELLA VISTA GROUP (BVG) BANK PROTECTION AT SOUTH END OF SITE.

2. AERIAL PHOTO NOT TO SCALE; FOR INFORMATION ONLY.

3. RAILROAD TRACKS PROPERTY OF BNSF

4. ▪▪▪▪▪ TEMPORARY EASEMENT FOR SITE ROAD ACCESS & STAGING AREA. APPROXIMATE EQUIPMENT PATH INCLUDED.

5. PERMANENT EASEMENT FROM CONTOUR 2053 TO 2067.5.

6. REMOVE VEGETATION AND EXCAVATE AS NECESSARY TO PROVIDE ACCESS FOR EQUIPMENT.

N

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8102, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:42:15 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT4HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

$$$RESIZE$$$$$$$$$$$$$$$$$$$

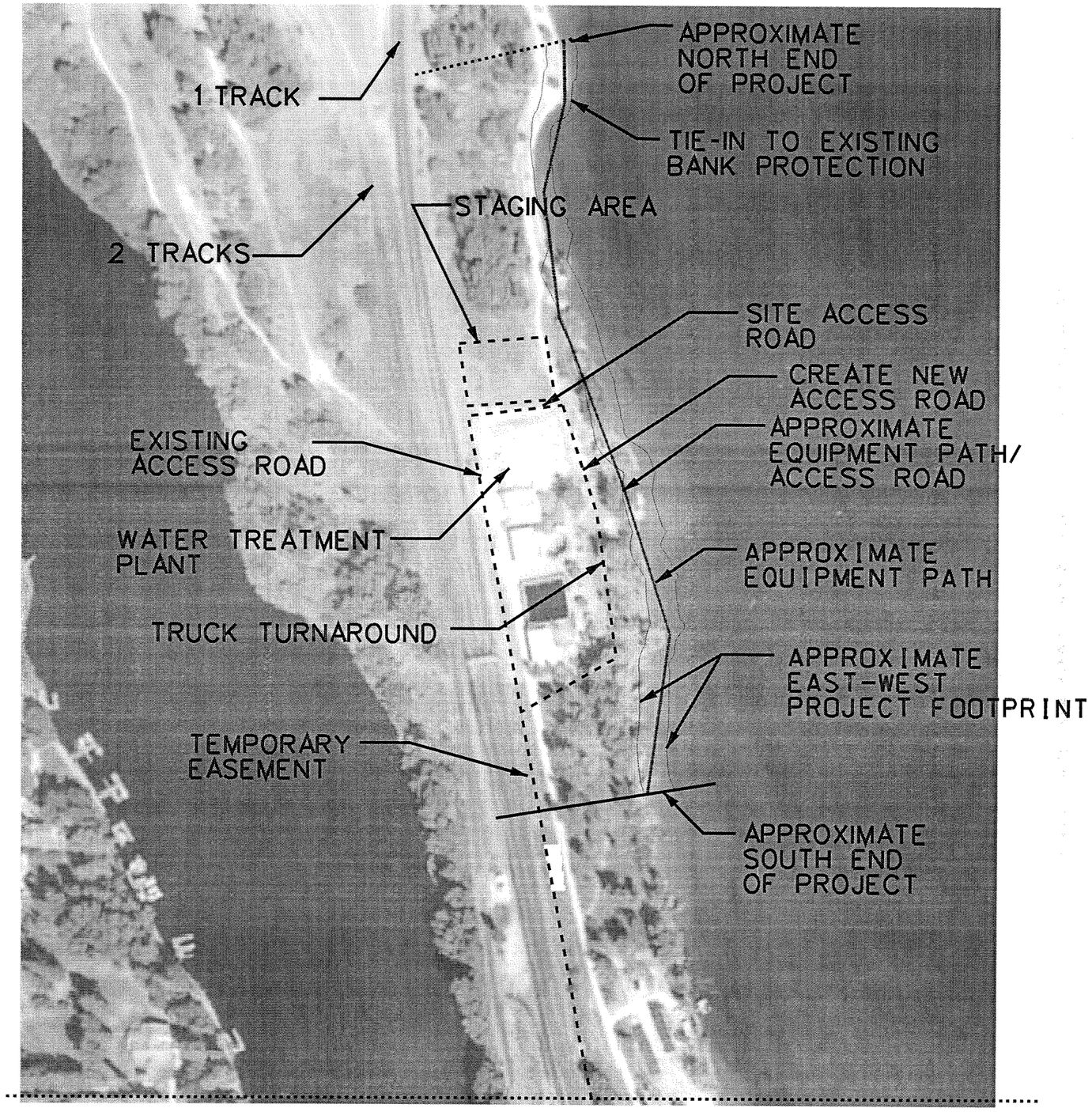
U.S. ARMY ENGINEER DISTRICT, SEATTLE
CORPS OF ENGINEERS
SEATTLE, WASHINGTON

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SITE ACCESS PLAN
SOUTH

SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-2
DSGN. DESJARDIN		CHK. KAISER	SHEET 4	



REVISIONS

SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. SITE ACCESS IS FROM SOUTH END OF PROJECT AND WILL PROCEED NORTH

2. AERIAL PHOTO NOT TO SCALE: FOR INFORMATION ONLY.

3. RR TRACKS PROPERTY OF BNSF

4. TIE NORTH END OF NEW RIPRAP BANK PROTECTION TO SOUTH END OF EXISTING BANK PROTECTION.

5. TEMPORARY EASMENT FOR SITE ROAD ACCESS & STAGING AREA. APPROXIMATE EQUIPMENT PATH INCLUDED.

6. PERMANENT EASMENT FROM CONTOUR 2053 TO 2067.5.

7. REMOVE VEGETATION AND EXCAVATE AS NECESSARY TO PROVIDE ACCESS FOR EQUIPMENT.

N

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SITE ACCESS PLAN
NORTH

SANDPOINT IDAHO

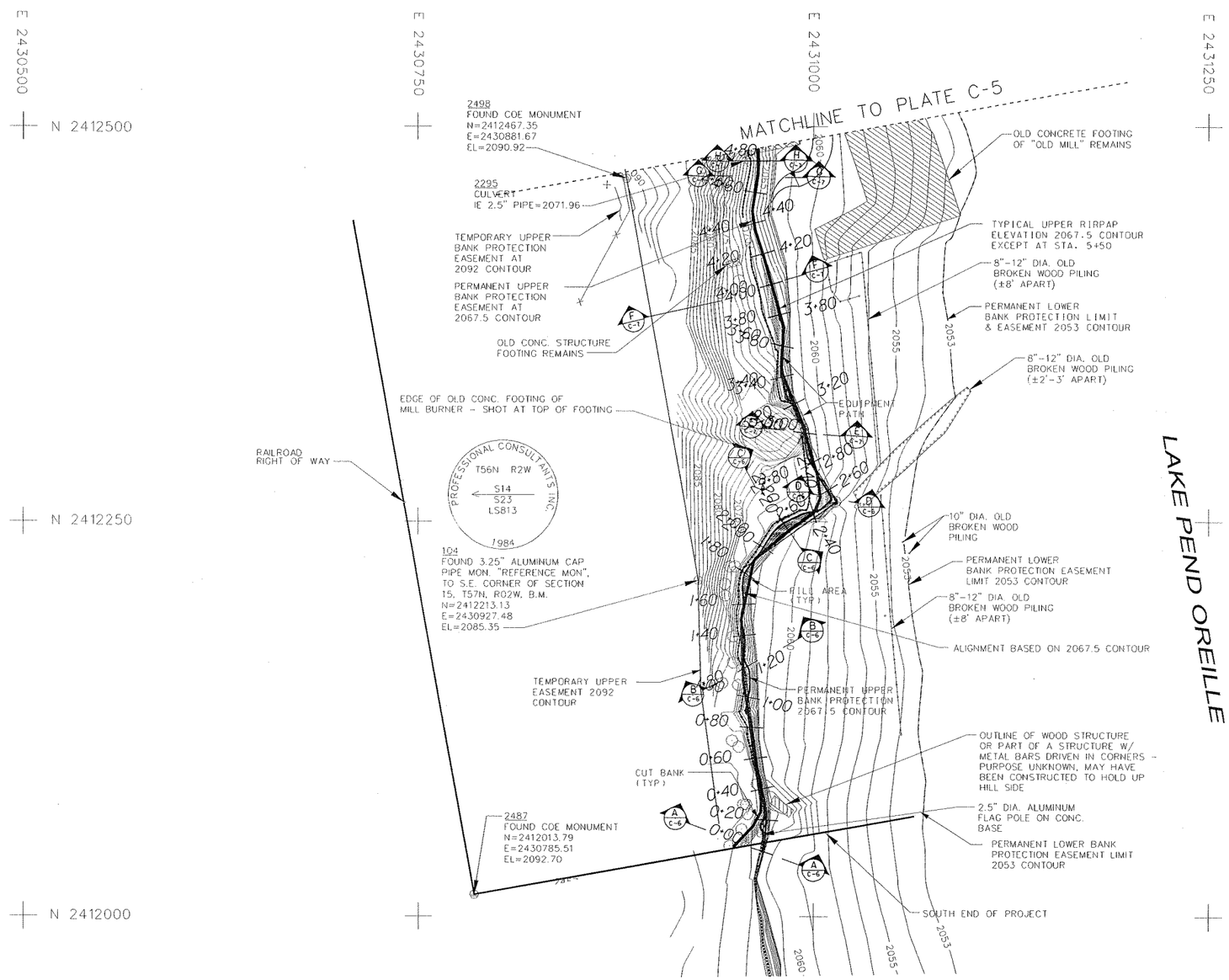
SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-3

DSGN: DESJARDIN CHK. KAISER SHEET 5

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on those project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:42:43 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT5HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING



REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. THE PERMANENT UPPER BANK PROTECTION STRUCTURAL LIMIT IS TYPICALLY THE 2067.5 CONTOUR. AT STATION 5 + 50 RIPRAP WILL BE PLACED TO ELEVATION 2075 AND AT STATION 6+00 RIPRAP WILL BE PLACED TO ELEVATION 2070.

2. THE PERMANENT UPPER EASEMENT IS THE 2067.5 CONTOUR.

3. PERMANENT LOWER EASEMENT IS 2053 CONTOUR.

4. THE LOWER DEFINITION OF THE BANK PROTECTION IS DEPICTED BY THE 2053 CONTOUR LINE.

5. SEE PLATES C-2 & C-3 FOR APPROXIMATE LOCATION OF ACCESS ROADS.

6. TEMPORARY EASEMENT FOR ACCESS ROADS & STAGING AREA SHOWN ON C-2 & C-3.

7. CONSTRUCTION PATH WILL BE 2067.5 ELEVATION. AND WILL BE A RELATIVELY STRAIGHT PATH ALONG THE EXISTING CONTOUR. CUTTING AND FILLING AS NECESSARY TO REMAIN AS STRAIGHT AS POSSIBLE.

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

ALBENI FALLS DAM
SANDPOINT BANK STABILIZATION

SURVEY AND
OVERALL SITE PLAN - SOUTH

SANDPOINT IDAHO

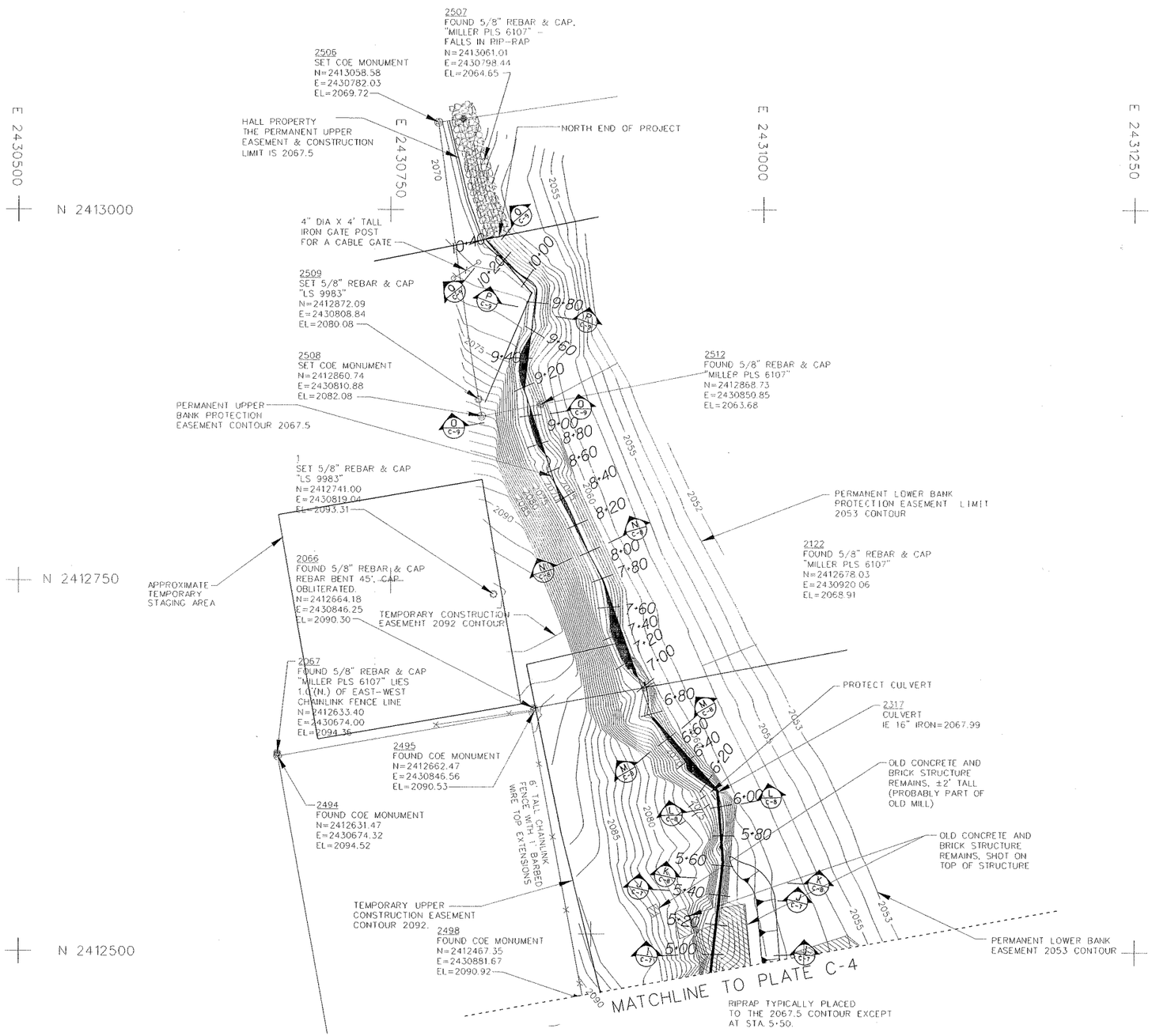
SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-4
DSGN. DESJARDIN		CHK. KAISER	SHEET 6	

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on those project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:43:18 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT6HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY



NOTES:

1. THE PERMANENT UPPER BANK PROTECTION STRUCTURAL LIMIT IS TYPICALLY THE 2067.5 CONTOUR. AT STATION 5 + 50 RIPRAP WILL BE PLACED TO ELEVATION 2075 AND AT STATION 6+00 RIPRAP WILL BE PLACED TO ELEVATION 2070.

2. THE PERMANENT UPPER EASEMENT IS THE 2067.5 CONTOUR.

3. THE LOWER TOE OF THE BANK PROTECTION IS DEPICTED BY THE 2053 CONTOUR LINE.

4. THE STAGING AREA IS TEMPORARY.

5. SEE PLATES C-2 & C-3 FOR APPROXIMATE LOCATION OF ACCESS ROAD.

6. TEMPORARY EASEMENT FOR ACCESS ROADS & STAGING AREA SHOWN ON C-2 & C-3.

7. CONSTRUCTION PATH WILL BE 2067.5 ELEVATION. AND WILL BE A RELATIVELY STRAIGHT PATH ALONG THE EXISTING CONTOUR. CUTTING AND FILLING AS NECESSARY TO REMAIN AS STRAIGHT AS POSSIBLE.

$$$RESIZE$$$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SURVEY AND
OVERALL SITE PLAN - NORTH

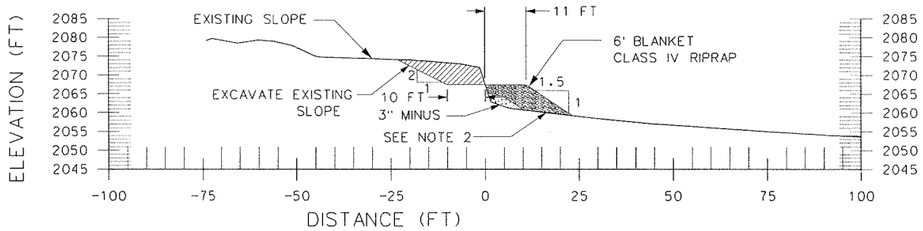
SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-5
DSGN: DESJARDIN		CHK. KAISER	SHEET 7	

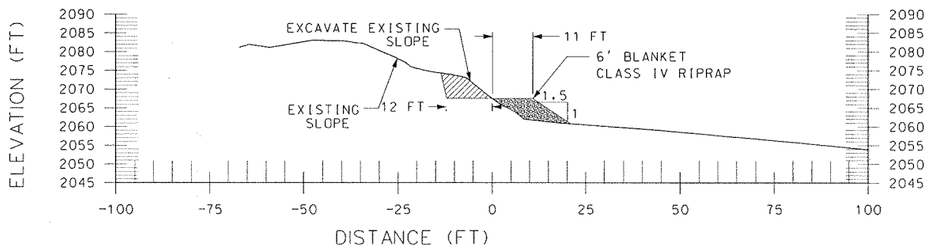
This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:44:08 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT7HALL.DGN

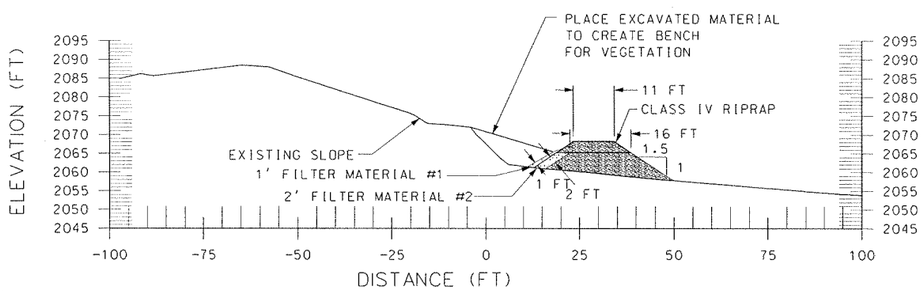
COMPUTER AIDED DESIGN & DRAFTING



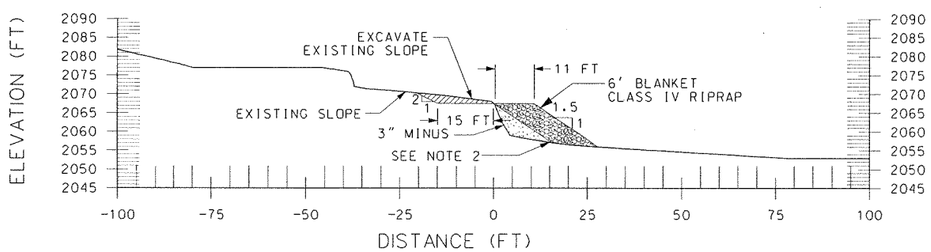
STA 0+00 - TIE-IN TO BVG BANK PROTECTION - FINAL SLOPE CUT (A / C-4)



TYPICAL SECTION
STA 1+20 - FINAL SLOPE CUT (B / C-4)



STA 2+20 - FINAL SLOPE FILL (C / C-4)



STA 2+40 - FINAL SLOPE CUT (D / C-4)

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. REMOVE VEGETATION ALONG ALIGNMENT TO ALLOW PLACEMENT OF RIPRAP

2. INCORPORATE LWD ENCOUNTERED ALONG THE ALIGNMENT INTO THE TOE. LWD SHALL CONSIST OF FIR OR CEDAR OR OTHER DURABLE WOOD THAT WILL NOT RAPIDLY DECOMPOSE AND SHALL BE PLACED AS OFTEN AS POSSIBLE AND IN CLUMPS OF SEVERAL PIECES. WOOD SHALL BE SALVAGED FROM ON-SITE DOWNED TREES. SEE DETAIL PLATE C-9

3. EXPECTED WINTER MINIMUM LAKE LEVEL IS 2055 FEET.

4. PROJECT FOOTPRINT IS LIMITED. SLOPE IS TYPICALLY 1.5H:1V IN MOST LOCATIONS ALONG THE ALIGNMENT.

5. FILTER MATERIAL #1 AND FILTER MATERIAL #2 GRADATIONS ARE SHOWN ON PLATE G-2.

6. PROJECT INTENT IS BANK PROTECTION, NOT PROTECTION OR DESTRUCTION OF EXISTING STRUCTURES.

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SECTIONS A, B, C, D

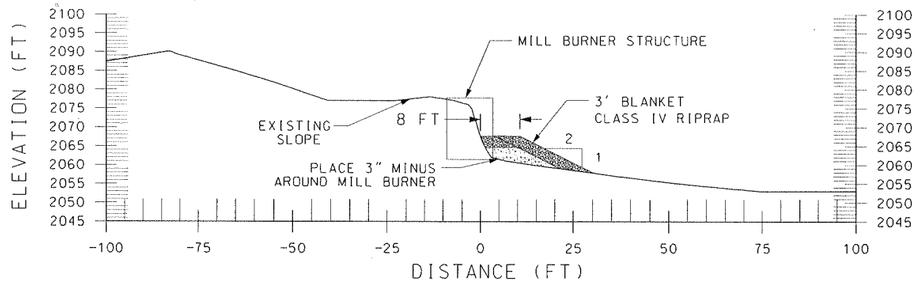
SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE:	PLATE
D		E-52-1-59	6 SEP 07	C-6
DSGN. DESJARDIN		CHK. KAISER	SHEET 8	

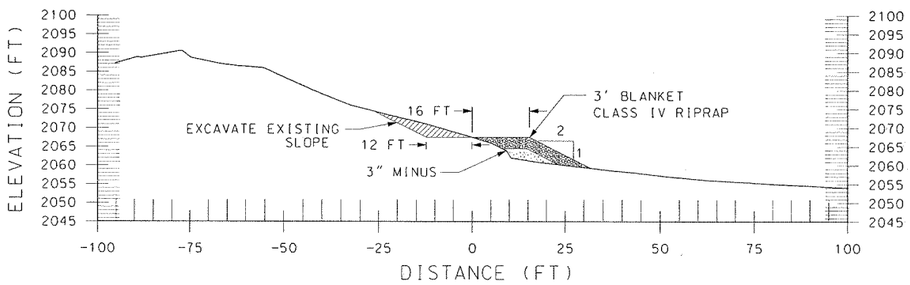
This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:44:35 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHTBHALL.DGN

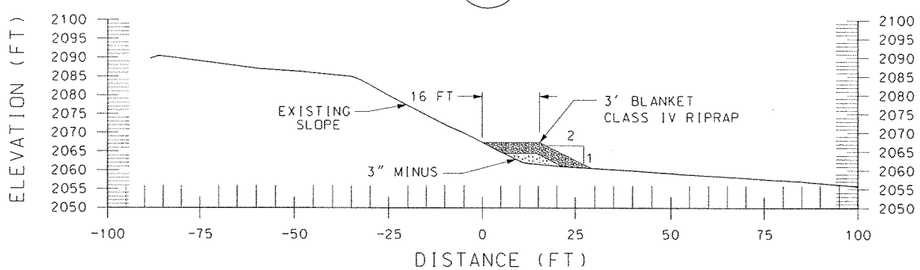
Computer Aided Design & Drafting



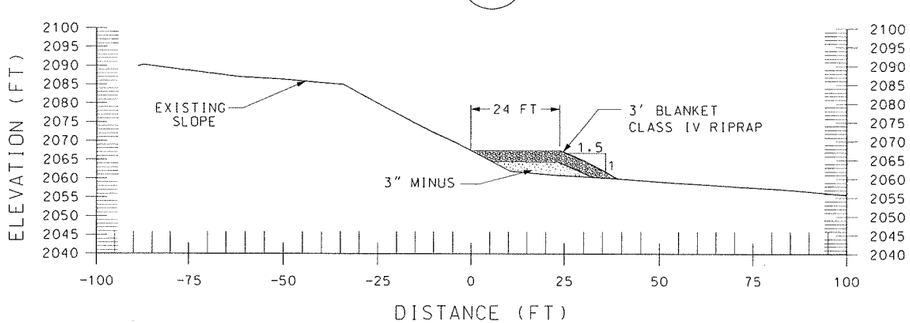
STA 3+00 - MILL BURNER SECTION (E / C-4)



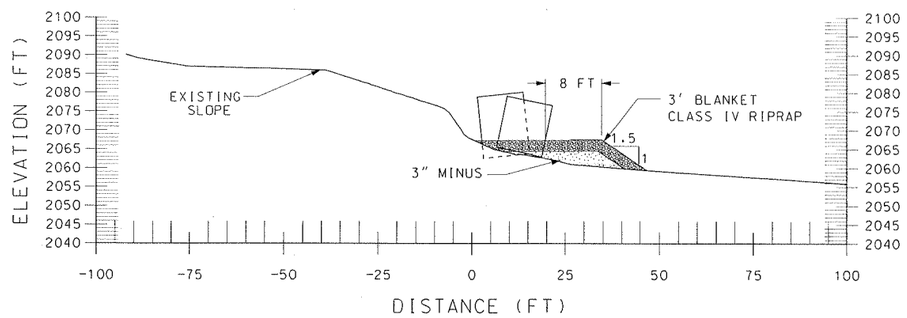
STA 4+00 - FINAL SLOPE CUT (F / C-4)



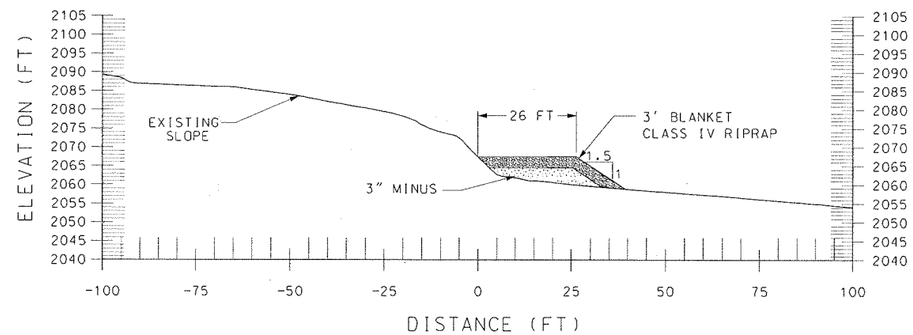
STA 4+75 - FOUNDATION OLD MILL STRUCTURE SOUTH END (G / C-4)



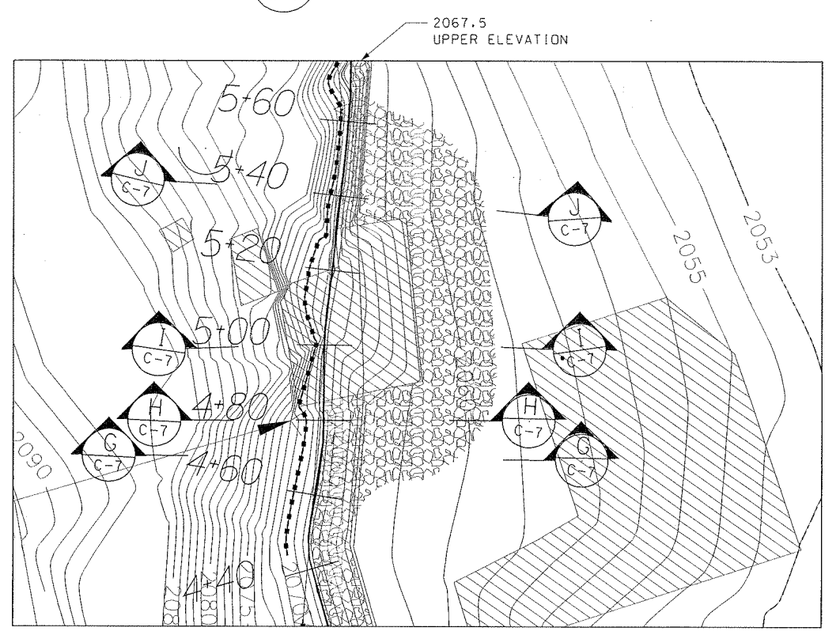
STA 4+80 FOUNDATION OLD MILL STRUCTURE - SOUTH END (H / C-4)



STA 5+00 FOUNDATION OLD MILL STRUCTURE (I / C-5)



STA 5+40 FOUNDATION OLD MILL STRUCTURE - NORTH END (J / C-5)



PLAN VIEW

REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. REMOVE VEGETATION ALONG ALIGNMENT TO ALLOW PLACEMENT OF RIPRAP

2. INCORPORATE LWD ENCOUNTERED ALONG THE ALIGNMENT INTO THE TOE. LWD SHALL CONSIST OF FIR OR CEDAR OR OTHER DURABLE WOOD THAT WILL NOT RAPIDLY DECOMPOSE AND SHALL BE PLACED AS OFTEN AS POSSIBLE AND IN CLUMPS OF SEVERAL PIECES. WOOD SHALL BE SALVAGED FROM ON-SITE DOWNED TREES. SEE DETAIL PLATE C-9

3. EXPECTED WINTER MINIMUM LAKE LEVEL IS 2055 FEET.

4. PROJECT FOOTPRINT IS LIMITED. SLOPE IS TYPICALLY 1.5H:1V IN MOST LOCATIONS ALONG THE ALIGNMENT.

5. PROJECT INTENT IS BANK PROTECTION, NOT PROTECTION OR DESTRUCTION OF EXISTING STRUCTURES.

6. FILTER MATERIAL #1 AND FILTER MATERIAL #2 GRADATIONS ARE SHOWN ON PLATE G-2.

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on those project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/17/2007 11:38:57 AM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT9HALL.DGN

Computer Aided Design & Drafting

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

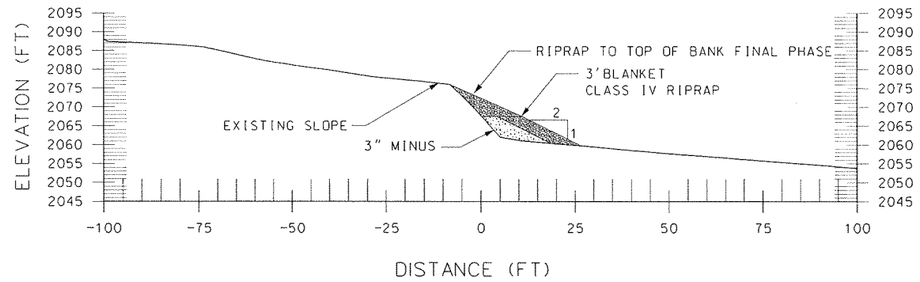
ALBENI FALLS DAM
SANDPOINT BANK STABILIZATION

SECTIONS E, F, G, H, I, J

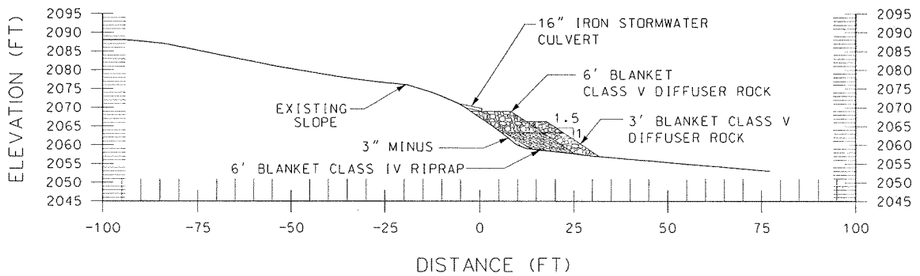
SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-7
DSGN: DESJARDIN		CHK: KAISER	SHEET 9	

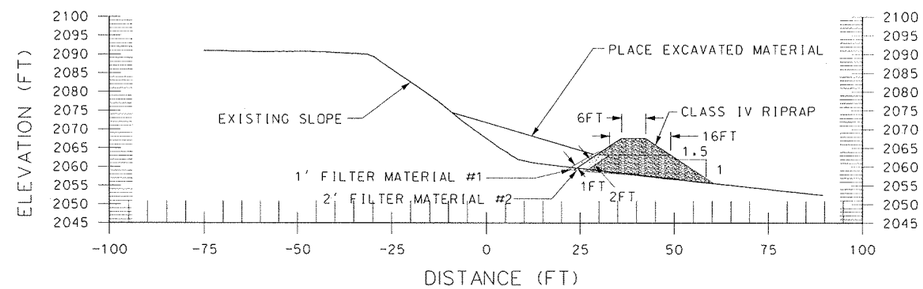
REVISIONS				
SYMBOL	ZONE	DESCRIPTION	DATE	BY



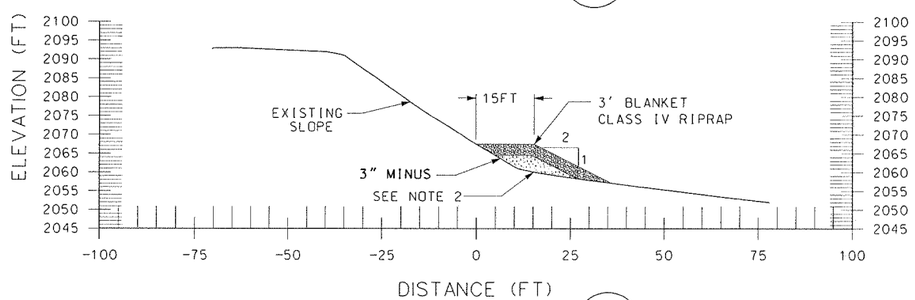
STA 5+50 ROCK TO TOP — K / C-5



STA 6+00 - CULVERT — L / C-5



STA 6+60 AND 7+00 FINAL SLOPE FILL — M / C-5



STA 8+00 - FINAL SLOPE — N / C-5

NOTES:

1. REMOVE VEGETATION ALONG ALIGNMENT TO ALLOW PLACEMENT OF RIPRAP.

2. INCORPORATE LWD ENCOUNTERED ALONG THE ALIGNMENT INTO THE TOE. LWD SHALL CONSIST OF FIR OR CEDAR OR OTHER DURABLE WOOD THAT WILL NOT RAPIDLY DECOMPOSE AND SHALL BE PLACED AS OFTEN AS POSSIBLE AND IN CLUMPS OF SEVERAL PIECES. WOOD SHALL BE SALVAGED FROM ON-SITE DOWNED TREES. SEE DETAIL PLATE C-9

3. EXPECTED WINTER MINIMUM LAKE LEVEL IS 2055 FEET.

4. PROJECT FOOTPRINT IS LIMITED. SLOPE IS TYPICALLY 1.5H:1V IN MOST LOCATIONS ALONG THE ALIGNMENT.

5. SEE PLATE G-2 FOR MATERIAL GRADATIONS.

6. PROJECT INTENT IS BANK PROTECTION, NOT PROTECTION OR DESTRUCTION OF EXISTING STRUCTURES.

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:45:24 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT10-1HALL.DGN

COMPUTER AIDED DESIGN & DRAFTING

$$$RESIZE$$$$$$$$$$$$$$$$$$

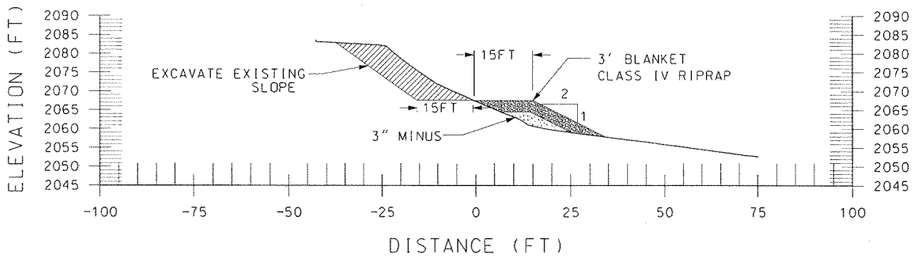
U.S. ARMY ENGINEER DISTRICT, SEATTLE
CORPS OF ENGINEERS
SEATTLE, WASHINGTON

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SECTIONS K, L, M, N

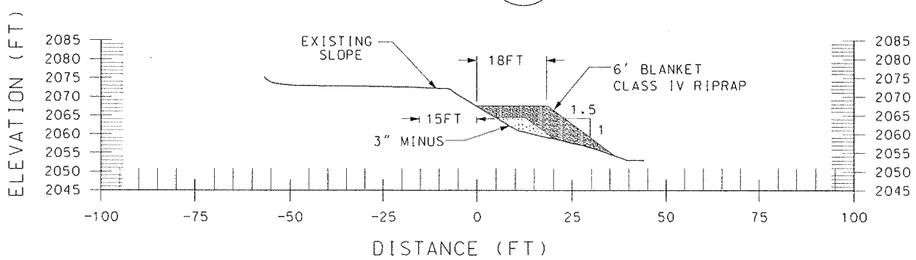
SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-8
DSGN. DESJARDIN		CHK. KAISER	SHEET 10	



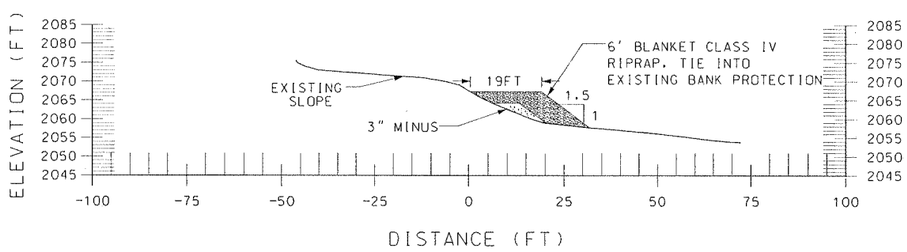
STA 9+00 FINAL SLOPE CUT

O / C-5



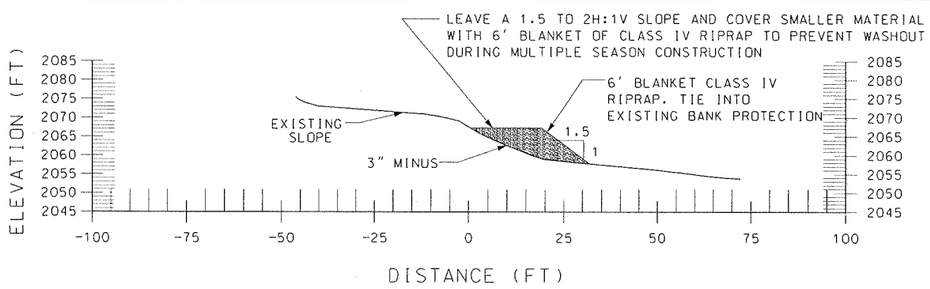
STA 9+75 FINAL SLOPE CUT

P / C-5

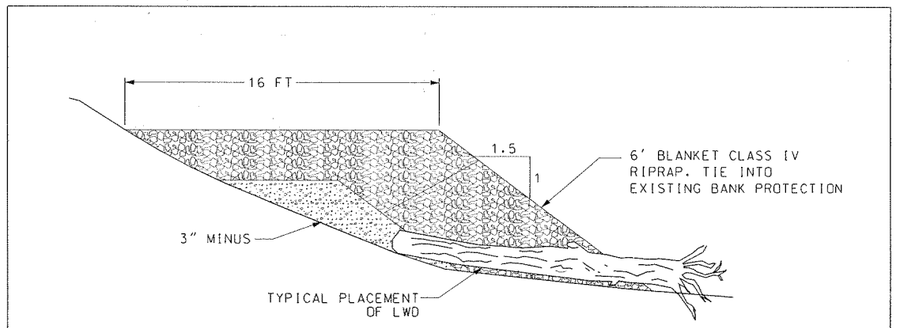


STA 10+40 TIE-INTO HALL PROP

Q / C-5



TIE-IN IF MULTIPLE SEASON CONSTRUCTION IS NECESSARY



LWD DETAIL
SHOWING TYPICAL PLACEMENT OF LWD

REVISIONS

SYMBOL	ZONE	DESCRIPTION	DATE	BY

NOTES:

1. REMOVE VEGETATION ALONG ALIGNMENT TO ALLOW PLACEMENT OF RIPRAP

2. INCORPORATE LWD ENCOUNTERED ALONG THE ALIGNMENT INTO THE TOE. LWD SHALL CONSIST OF FIR OR CEDAR OR OTHER DURABLE WOOD THAT WILL NOT RAPIDLY DECOMPOSE AND SHALL BE PLACED AS OFTEN AS POSSIBLE AND IN CLUMPS OF SEVERAL PIECES. WOOD SHALL BE SALVAGED FROM ON-SITE DOWNED TREES. SEE DETAIL BELOW

3. EXPECTED WINTER MINIMUM LAKE LEVEL IS 2055 FEET.

4. PROJECT FOOTPRINT IS LIMITED. SLOPE IS TYPICALLY 1.5H:1V IN MOST LOCATIONS ALONG THE ALIGNMENT.

5. PROJECT INTENT IS BANK PROTECTION, NOT PROTECTION OR DESTRUCTION OF EXISTING STRUCTURES.

6. FILTER MATERIALS #1 AND FILTER MATERIAL #2 GRADATIONS ARE SHOWN ON PLATE G-2.

This project was designed by the Seattle District U.S. Army Corps of Engineers. The initials or signatures and registration designations of individuals appear within the specifications or on these project documents within the scope of their employment as required by ER 1110-1-8152, Professional Registration.

DATE AND TIME PLOTTED: 9/13/2007 2:47:02 PM
DESIGN FILE: I:\MISC\CIV\SANDPOINT WATER\AS DESIGN\SHT11-1HALL.DGN

$$$RESIZE$$$$$$$$$$$$$$$$$$$

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

ALBENIFALLS DAM
SANDPOINT BANK STABILIZATION

SECTIONS O, P, Q, LWD DETAIL

SANDPOINT IDAHO

SIZE	INVITATION NO.	FILE NO.	DATE	PLATE
D		E-52-1-59	6 SEP 07	C-9
DSGN: DESJARDIN		CHK. KAISER	SHEET 11	