

SONOMA COUNTY WATER AGENCY

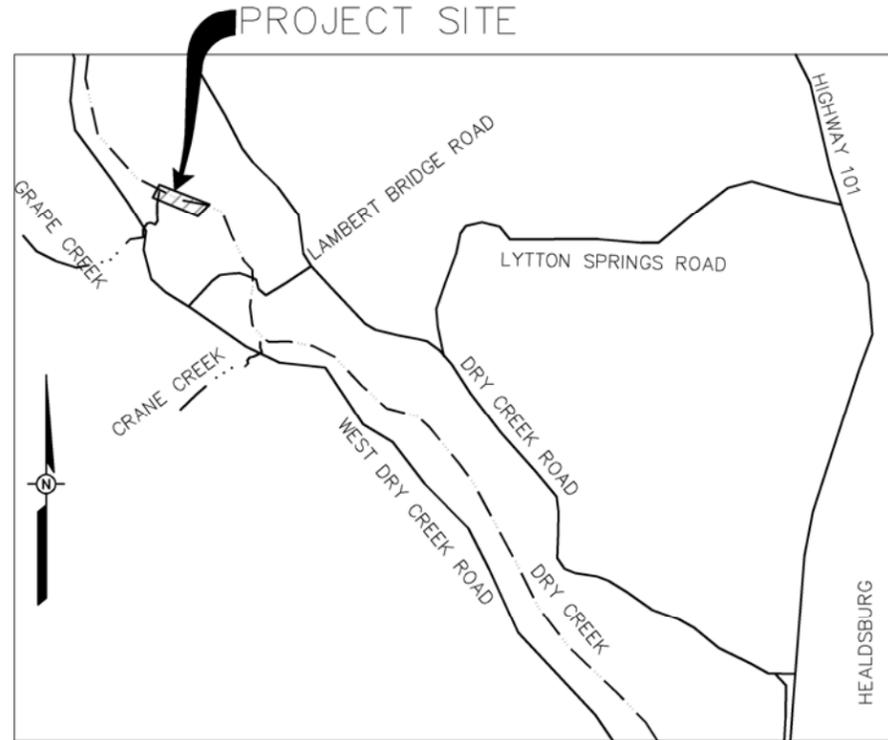
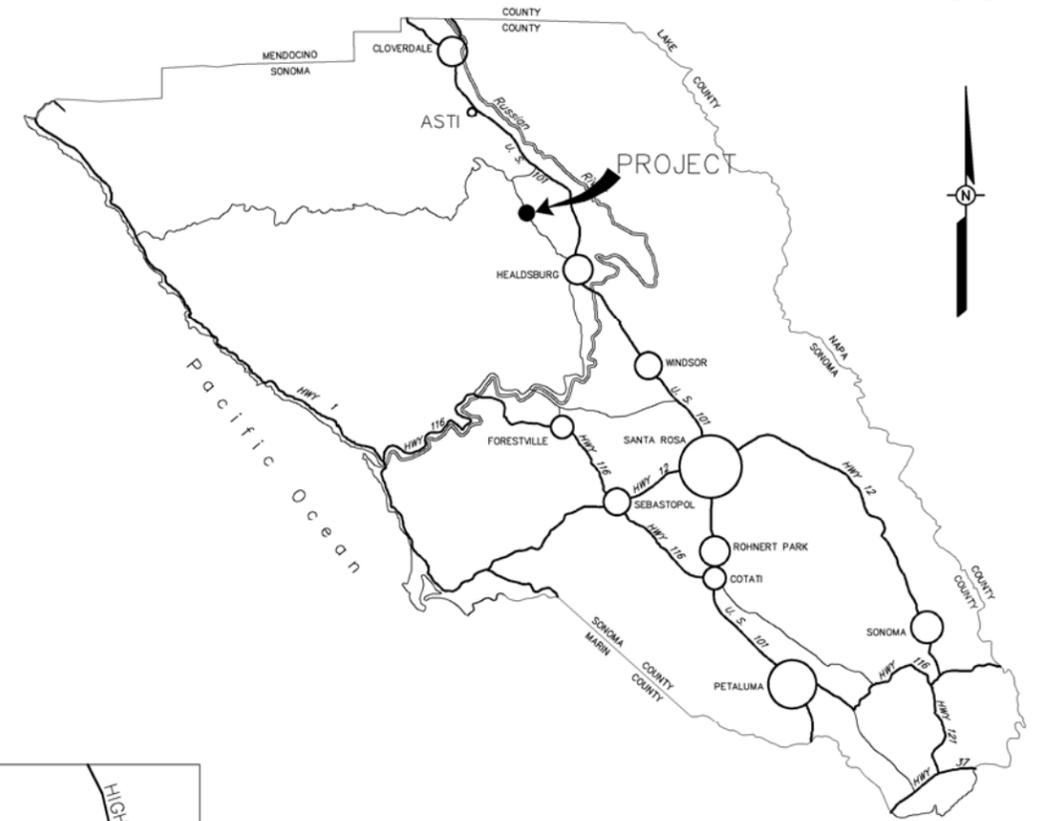
DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT PHASE I

CONTRACT # 45-6.1-7 #2

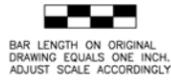
MAY 18, 2012

SHEET NO.	DRAWING NO.	TITLE
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1. LOCATION MAP AND SHEET INDEX
2. GENERAL NOTES AND LEGEND
3. EXISTING CONDITIONS AND CONSTRUCTION ACCESS
4. MAIN CHANNEL PLAN AND PROFILE STA 370+00 TO 383+00
5. OFF CHANNEL ENHANCEMENT AREA E - GRADING PLAN
6. OFF CHANNEL ENHANCEMENT AREA E - LWD PLAN
7. OFF CHANNEL ENHANCEMENT AREA E - GRADING CROSS-SECTIONS
8. TYPICAL SECTIONS - LOG JAMS STA: 375+60 TO 380+27
9. LWD DETAILS - LOG JAM AND FLOODPLAIN LWD
10. LWD DETAILS - BACKWATER CHANNEL AND POOL ENHANCEMENT
11. LOG JAM DETAILS - TYPICAL SEQUENCE
12. FLOODPLAIN AND POOL ENHANCEMENT LWD DETAILS - TYPICAL SEQUENCES
13. BACKWATER LWD DETAILS - TYPICAL SEQUENCE
14. SLOPE PLACEMENT LWD DETAILS AND LOG JAM AND LWD SUMMARY TABLE
15. LWD DETAILS - CABLING AND BALLASTING



COORDINATION CHECK	ORIG. REL. REV.	DATE	CIVIL	ELECT	MECH	TECH WR	INSPECTION	OPERATIONS	SURVEY



RECORD INFORMATION				
NO.	DATE	REVISION	BY	

SONOMA COUNTY WATER AGENCY

SCALE: _____

DATE: 5/18/12

DRAWN: JT

CHECKED: MB

REVIEWED: *[Signature]*

REVIEWED: *[Signature]*

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT LOCATION MAP AND SHEET INDEX		
FILE NAME: 7345	DRAWING NUMBER:	SHEET 1 OF 15
CONTRACT NUMBER: 45-6.1-7 #2		

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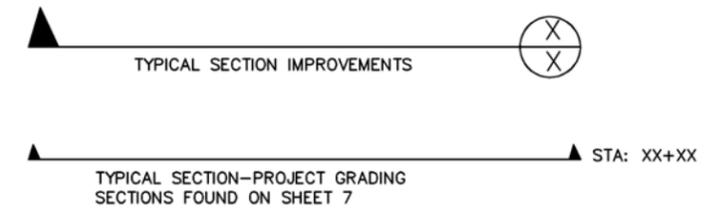
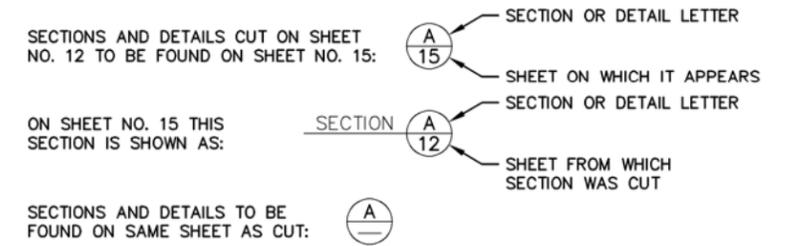
PLAN LEGEND

	EXISTING CONTOURS (1 FT.)		EXISTING STRUCTURES
	PROPOSED CONTOURS (1 FT.)		STAGING AREA
	EDGE OF WATER, MAY 2010 (TYP.)		EXISTING ROAD
	PROPOSED ACCESS CORRIDOR		
	CONSTRUCTION EASEMENT (TYP.)		
	OVERHEAD POWER LINE		
	DRY CREEK ALIGNMENT		
	PARCEL BOUNDARY		
	SILT FENCE		
	POWER POLE		
	INGRESS/EGRESS		
	STORM DRAIN OUTFALL (SDO)		
	(E) PUMP		
	LARGE WOODY DEBRIS (LWD)		
	LOG JAM		

ABBREVIATIONS

LWD	LARGE WOODY DEBRIS
STA	STATION
(TYP)	TYPICAL
(N)	NEW
(E)	EXISTING
SDO	STORM DRAIN OUTFALL
HDPE	HIGH DENSITY POLYETHYLENE
NTS	NOT TO SCALE
O.C.	ON CENTER
OHW	ORDINARY HIGH WATER
FES	FABRIC ENCAPSULATED SOIL LIFT
OH	OVERHEAD
PDCS	PUMP DISCHARGE SEDIMENT CONTROL SYSTEM
I.E.	INVERT ELEVATION
D.B.H.	DIAMETER BREAST HEIGHT
EG	EXISTING GRADE

TYPICAL SECTION AND DETAIL LETTERING SYSTEM

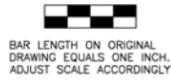


GENERAL NOTES

- UNITS FEET
- HORIZONTAL DATUM CALIFORNIA STATE PLANE COORDINATES (NAD83) ZONE 2, US SURVEY FEET
- VERTICAL DATUM : NORTH AMERICAN VERTICAL DATUM (NAVD), 1988 US SURVEY FEET.
- PROJECT BENCHMARKS:

PI	NORTHING	EASTING	ELEVATION	DESCRIPTION
DC-03	2001363.832	6296702.537	146.48	2" DIA. BRASS DISK
DC-04	2001308.733	6295880.366	142.712	2" DIA. BRASS DISK
- STATIONING : ALL STATIONING REPRESENTS HORIZONTAL MEASUREMENT AT ALIGNMENT OF CONSTRUCTION.
- ORIENTATION : RIGHT AND LEFT DIRECTIONS ARE FROM CENTERLINE LOOKING DOWNSTREAM.
- UTILITIES : THE OWNER, TO THE BEST OF ITS ABILITY, HAS DELINEATED ON THE DRAWINGS ALL UTILITY INSTALLATIONS TO BE ENCOUNTERED WITHIN THE LIMITS OF WORK. SUCH INFORMATION IS BASED UPON INFORMATION FURNISHED TO THE AGENCY BY THE UTILITY OWNERS, AND THE OWNER DOES NOT EITHER EXPRESSLY OR BY IMPLICATION GUARANTEE THAT UTILITY INSTALLATIONS WILL BE FOUND AT THE LOCATIONS OR DEPTHS INDICATED. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN OR THE INADVERTENT OMISSION OF ANY SUCH INFORMATION.
- PARCEL DATA : OBTAINED FROM SONOMA COUNTY WATER AGENCY ON FEBRUARY 16, 2012.
- TOPOGRAPHY : BASED ON LIDAR MAPPING COLLECTED NOVEMBER 2008 BY PICTOMETRY, INC. SUPPLEMENTED WITH GROUND SURVEY BY INTER-FLUVE, INC. COLLECTED MAY 2010

COORDINATION CHECK	DATE	CIVIL	ELECT	MECH	TECH WR	INSPECTION	OPERATIONS	SURVEY



RECORD INFORMATION	
NO.	DATE

SCALE:	
DATE :	5/18/12
DRAWN :	JT
CHECKED :	MB

REVIEWED	
REVIEWED	

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT	
GENERAL NOTES AND LEGEND	
FILE NAME:	DRAWING NUMBER:
CONTRACT NUMBER: 45-6.1-7 #2	SHEET 2 OF 15



NOTES:
 1. LOCATION OF ACCESS RAMP TO PROJECT AREA TO BE CONFIRMED AT TIME OF CONSTRUCTION

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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION			
NO.	DATE	REVISION	BY



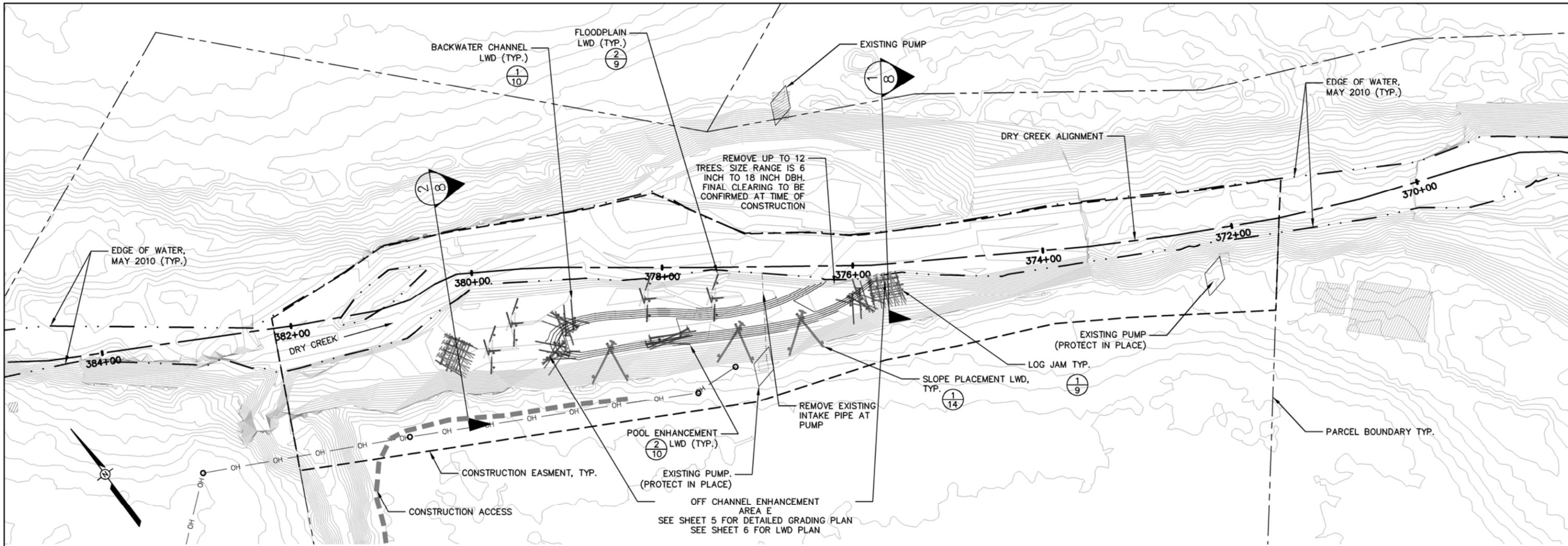
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 DRAWN: JT
 CHECKED: MB,RP,BN,MB

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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
EXISTING CONDITIONS AND CONSTRUCTION ACCESS

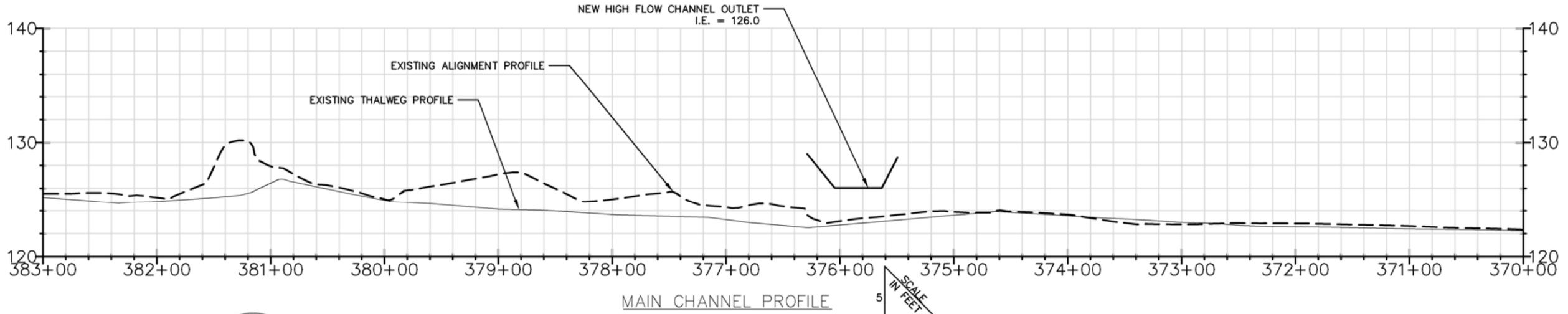
FILE NAME:
 CONTRACT NUMBER: 45-6.1-7 #2

DRAWING NUMBER:
 SHEET 3 OF 15



NOTES:

- MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
- LOCATION OF ACCESS RAMP TO WORK AREA TO BE CONFIRMED AT TIME OF CONSTRUCTION.



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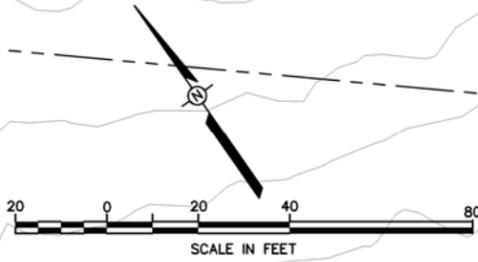
BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	



SCALE:	REVIEWED:
DATE: 5/18/12	<i>[Signature]</i>
DRAWN: JT	REVIEWED:
CHECKED: MB	<i>[Signature]</i>

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT MAIN CHANNEL PLAN AND PROFILE STA. 370+00 TO 383+00	
FILE NAME: CONTRACT NUMBER: 45-6.1-7 #2	DRAWING NUMBER:
SHEET 4 OF 15	



PARCEL BOUNDARY TYP.

CONSTRUCTION EASEMENT

EDGE OF WATER, MAY 2010 (TYP.)

REMOVE UP TO 12 TREES. SIZE RANGE IS 6 INCH TO 18 INCH DBH. FINAL CLEARING TO BE CONFIRMED AT TIME OF CONSTRUCTION

DRY CREEK ALIGNMENT

DRY CREEK

REMOVE EXISTING INTAKE PIPE AT PUMP

CONSTRUCTION EASEMENT

NOTES:
ALL AREAS DISTURBED BY GRADING TO BE HYDROSEEDED.



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	



SCALE: 1" = 20'
DATE: 5/18/12
DRAWN: JT
CHECKED: MB

REVIEWED: *[Signature]*
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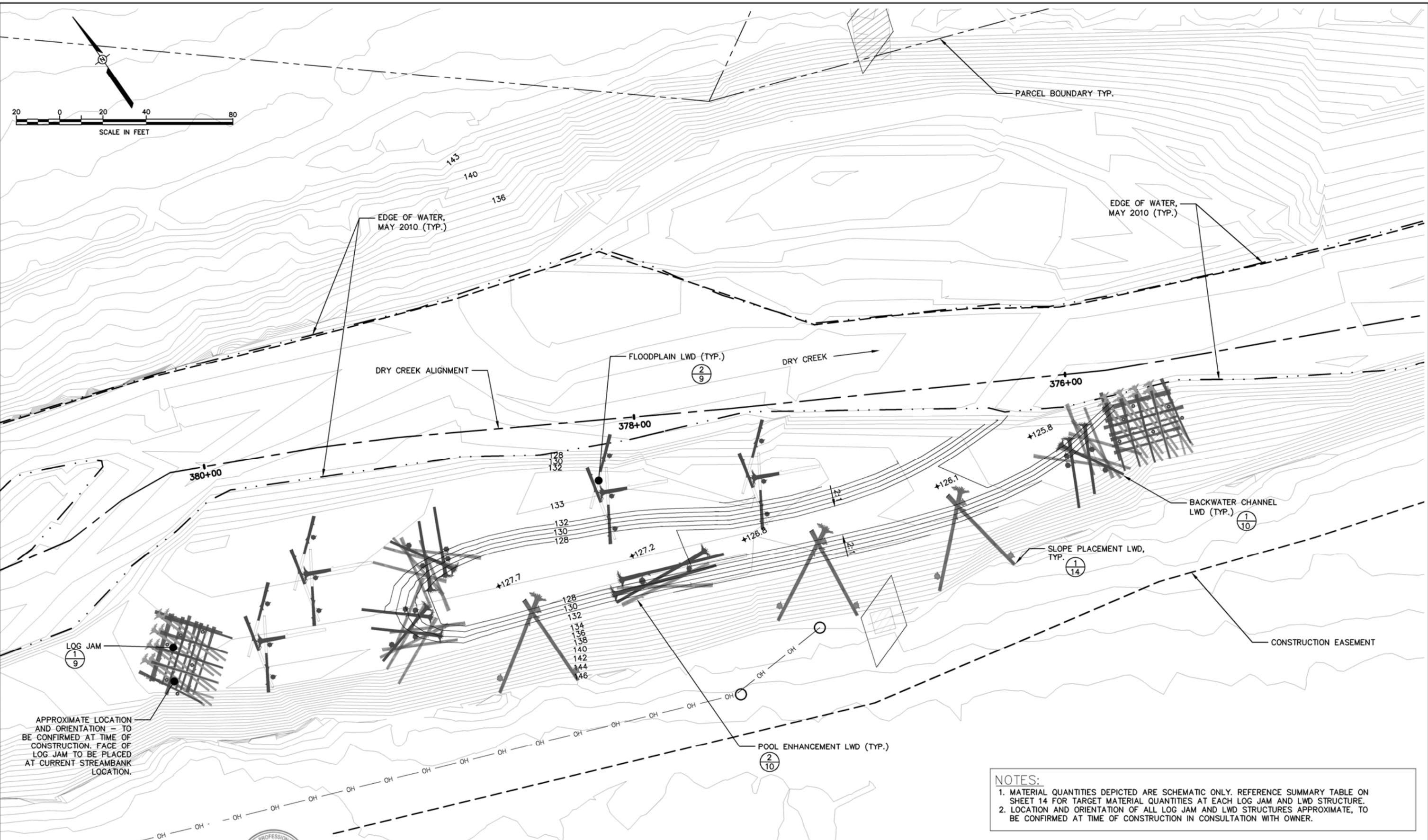
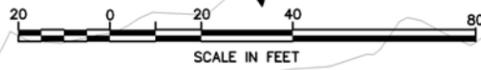
DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
OFF CHANNEL ENHANCEMENT
AREA E - GRADING PLAN

FILE NAME:
CONTRACT NUMBER: 45-6.1-7 #2

DRAWING NUMBER:

SHEET 5 OF 15

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APPROXIMATE LOCATION AND ORIENTATION - TO BE CONFIRMED AT TIME OF CONSTRUCTION. FACE OF LOG JAM TO BE PLACED AT CURRENT STREAMBANK LOCATION.

NOTES:
 1. MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
 2. LOCATION AND ORIENTATION OF ALL LOG JAM AND LWD STRUCTURES APPROXIMATE, TO BE CONFIRMED AT TIME OF CONSTRUCTION IN CONSULTATION WITH OWNER.



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	

SONOMA COUNTY WATER AGENCY

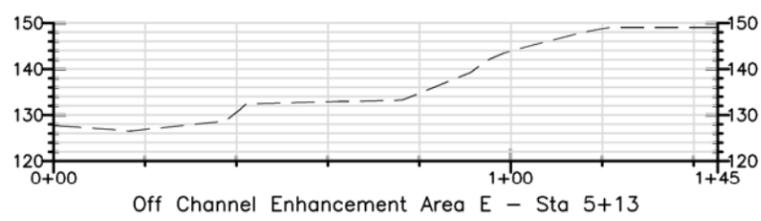
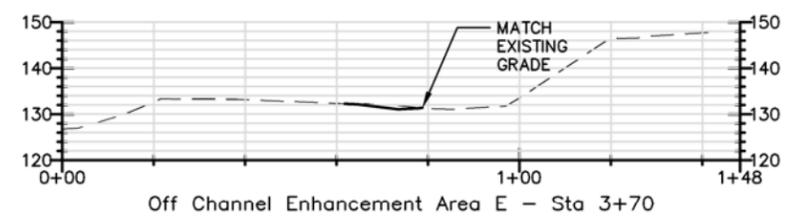
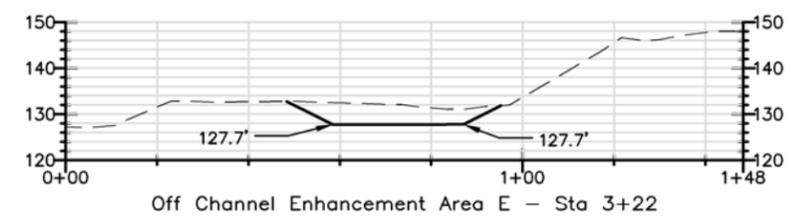
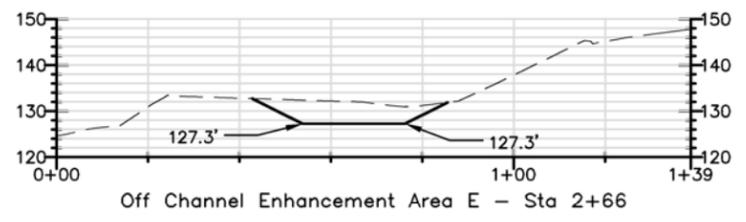
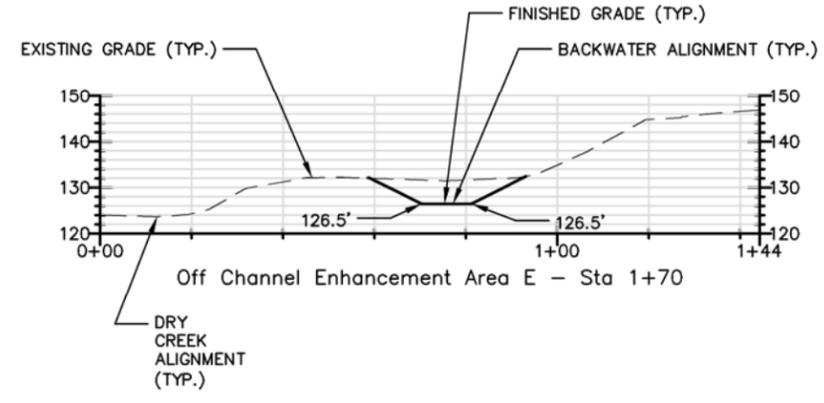
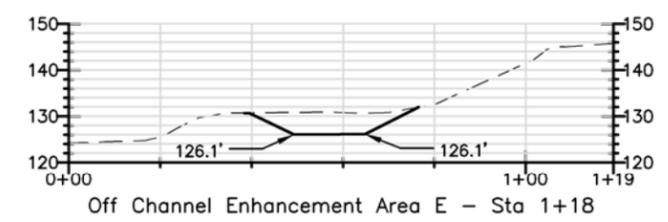
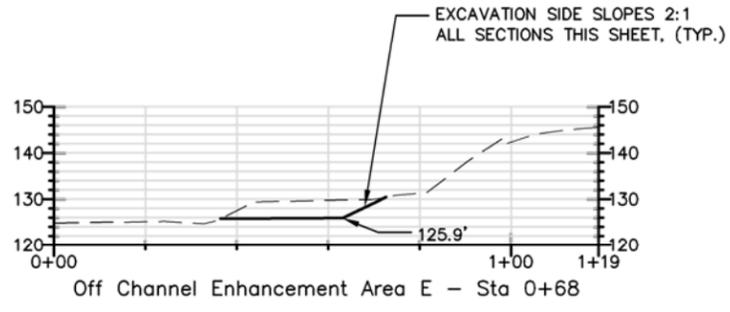
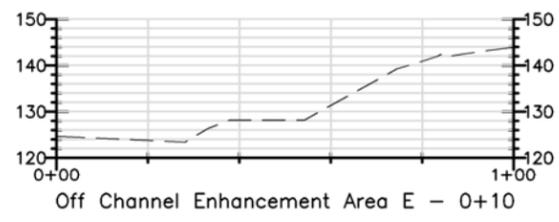
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**DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
 OFF CHANNEL ENHANCEMENT AREA E
 - LWD PLAN**

FILE NAME: CONTRACT NUMBER: 45-6.1-7 #2
 DRAWING NUMBER:
 SHEET 6 OF 15

SCALE IN FEET
20
20



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	

SONOMA COUNTY WATER AGENCY

SCALE: 1" = 30'

DATE: 5/18/12

DRAWN: JT

CHECKED: MB

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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
OFF CHANNEL ENHANCEMENT AREA E
- GRADING CROSS-SECTIONS

FILE NAME: CONTRACT NUMBER: 45-6.1-7 #2

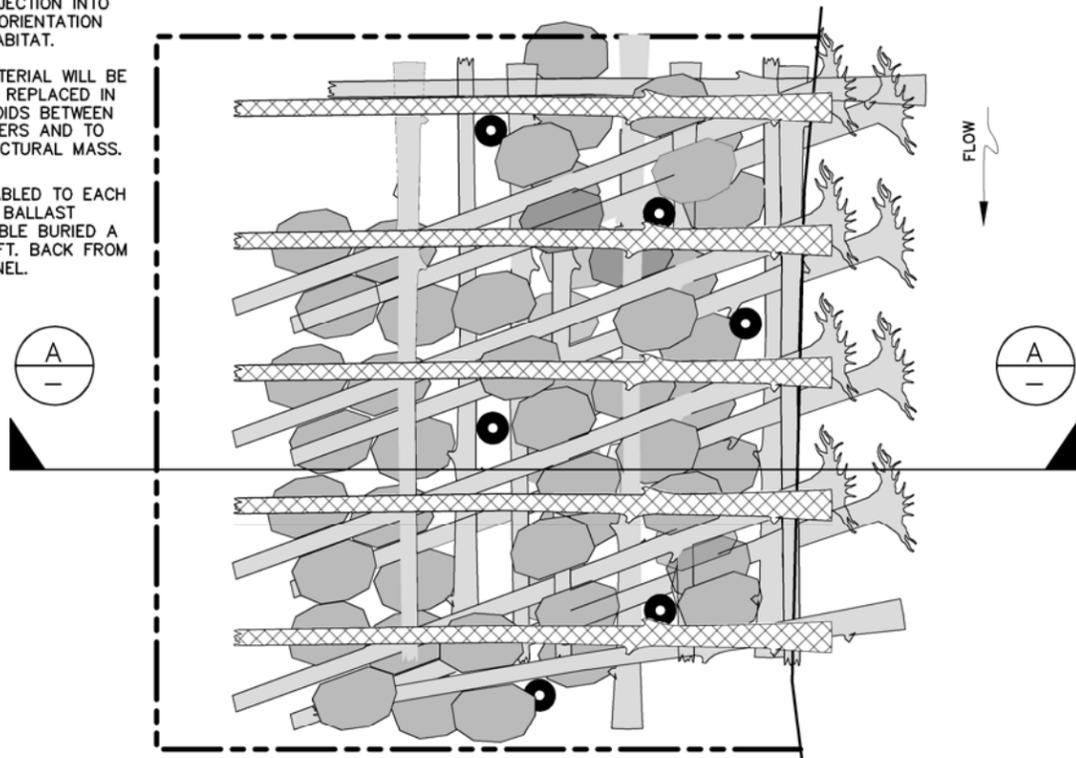
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SHEET 7 OF 15

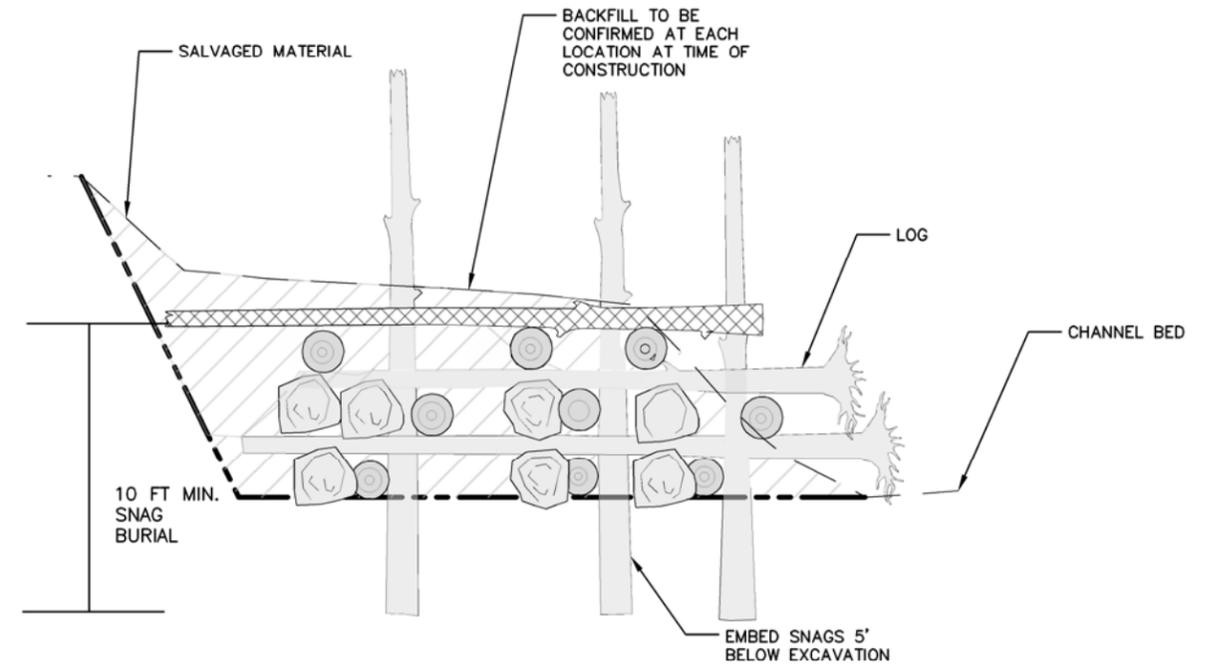
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LOG JAM SPECIFIC NOTES:

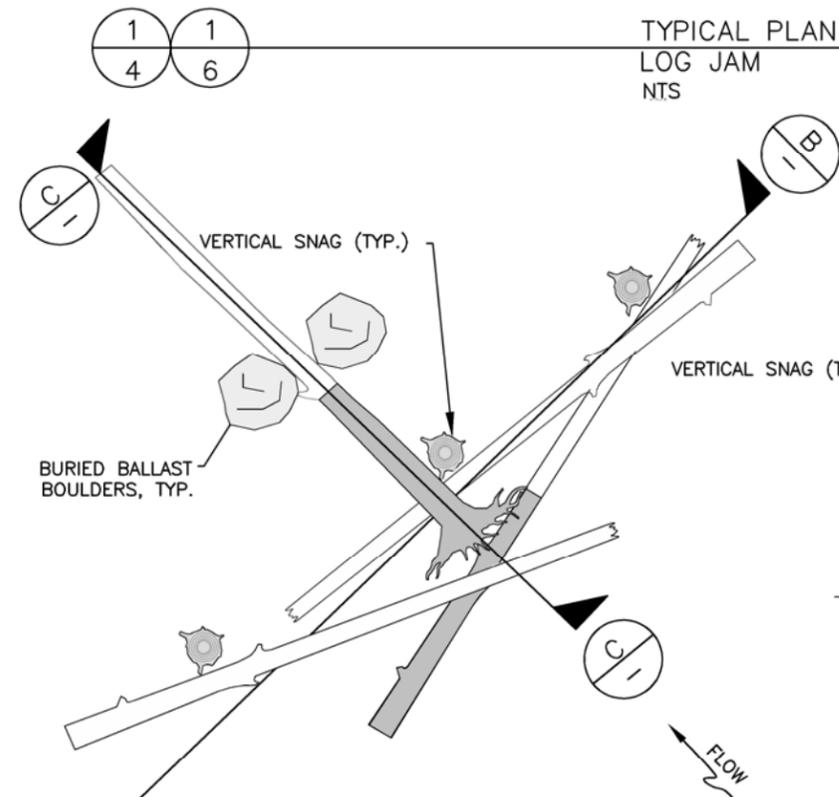
1. VARY LWD PROJECTION INTO CHANNEL AND ORIENTATION TO OPTIMIZE HABITAT.
2. EXCAVATED MATERIAL WILL BE SALVAGED AND REPLACED IN JAM TO FILL VOIDS BETWEEN STACKED MEMBERS AND TO INCREASE STRUCTURAL MASS.
3. LOGS TO BE CABLED TO EACH OTHER AND TO BALLAST BOULDERS. CABLE BURIED A MINIMUM OF 6 FT. BACK FROM EDGE OF CHANNEL.



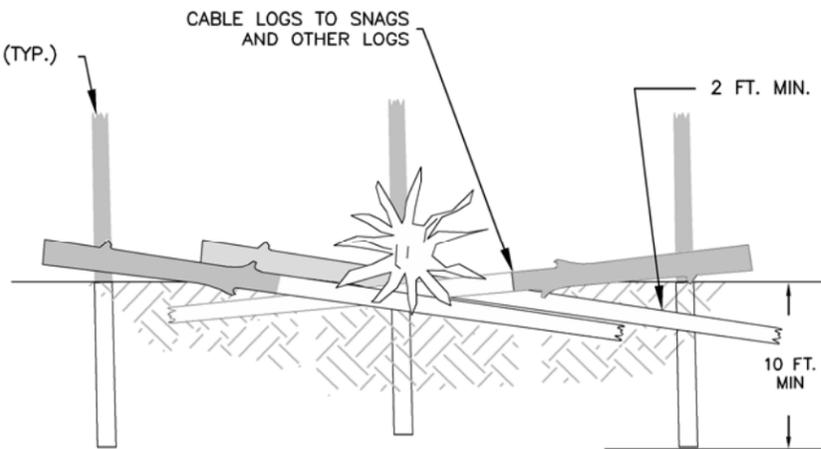
**TYPICAL PLAN DETAIL
LOG JAM
NTS**



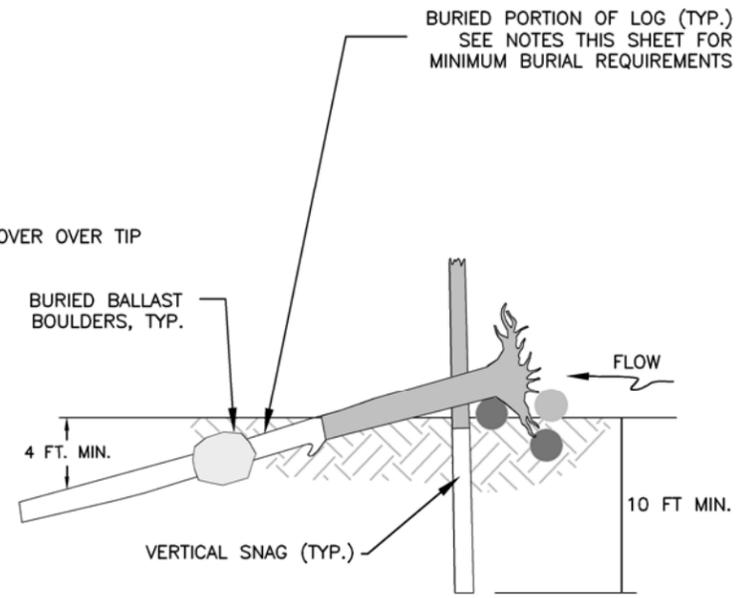
**TYPICAL SECTION
LOG JAM**



**TYPICAL PLAN
FLOODPLAIN LWD
NTS**



**TYPICAL ELEVATION VIEW
FLOODPLAIN LWD
NTS**



**TYPICAL SECTION
FLOODPLAIN LWD
NTS**

GENERAL SHEET NOTES:

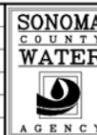
1. MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
2. SPECIFIC ORIENTATION OF LWD AND BALLAST MATERIALS MAY VARY FROM TYPICAL DRAWINGS DEPENDING ON SITE CONDITIONS AND SIZE AND SHAPE OF MATERIALS DELIVERED TO THE SITE.
3. OWNER WILL COORDINATE WITH CONTRACTOR DURING PLACEMENT OF LWD TO CONFIRM PLACEMENT, ORIENTATION AND BALLASTING DURING INSTALLATION.
4. LWD WILL BE BALLASTED TO RESIST BUOYANCY BY PARTIAL BURIAL, CABLING TO OTHER LWD, SECURING TO EXISTING TREES OR BOULDERS, OR OTHER METHODS.

2 2
4 6



BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	



SCALE:
DATE: 5/18/12
DRAWN: JT
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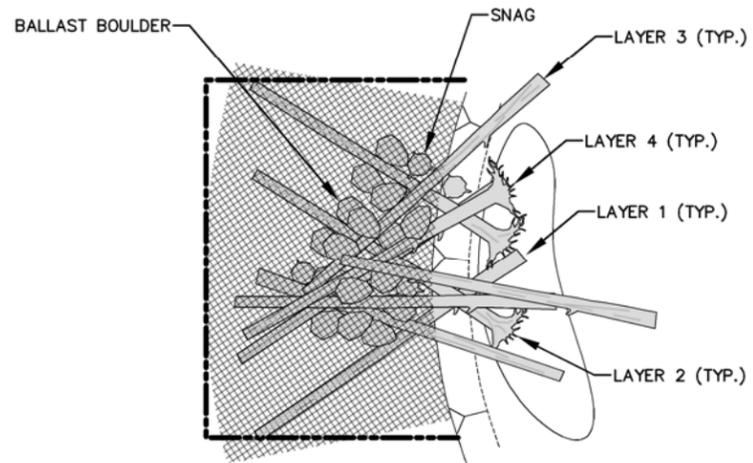
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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
LWD DETAILS – LOG JAM AND
FLOODPLAIN LWD

FILE NAME:
CONTRACT NUMBER: 45-6.1-7 #2

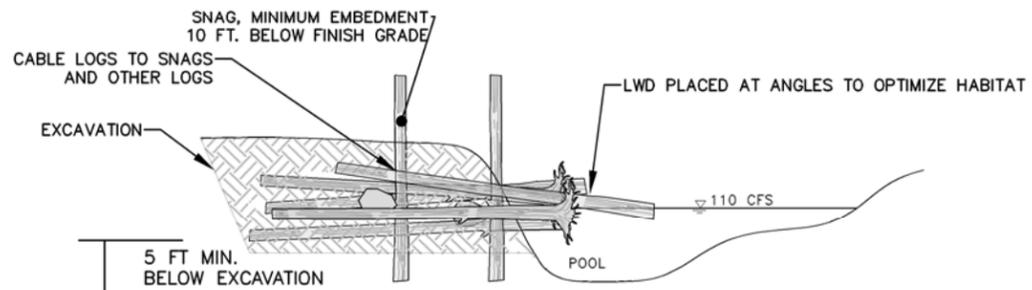
DRAWING
NUMBER:

SHEET 9 OF 15



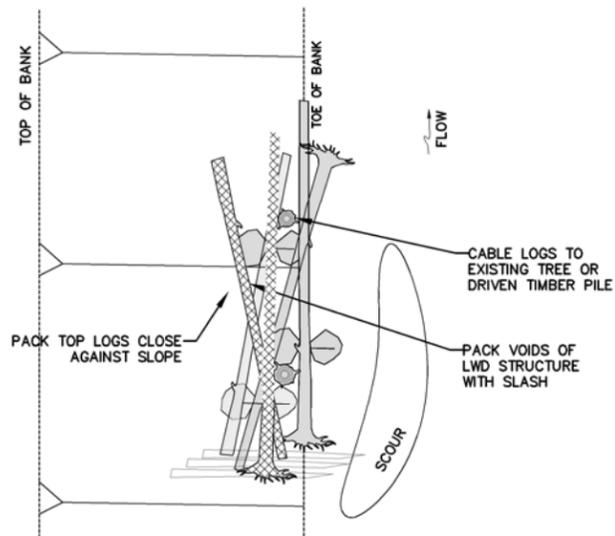
1 1
4 6

TYPICAL PLAN DETAIL
BACKWATER CHANNEL LWD
NTS



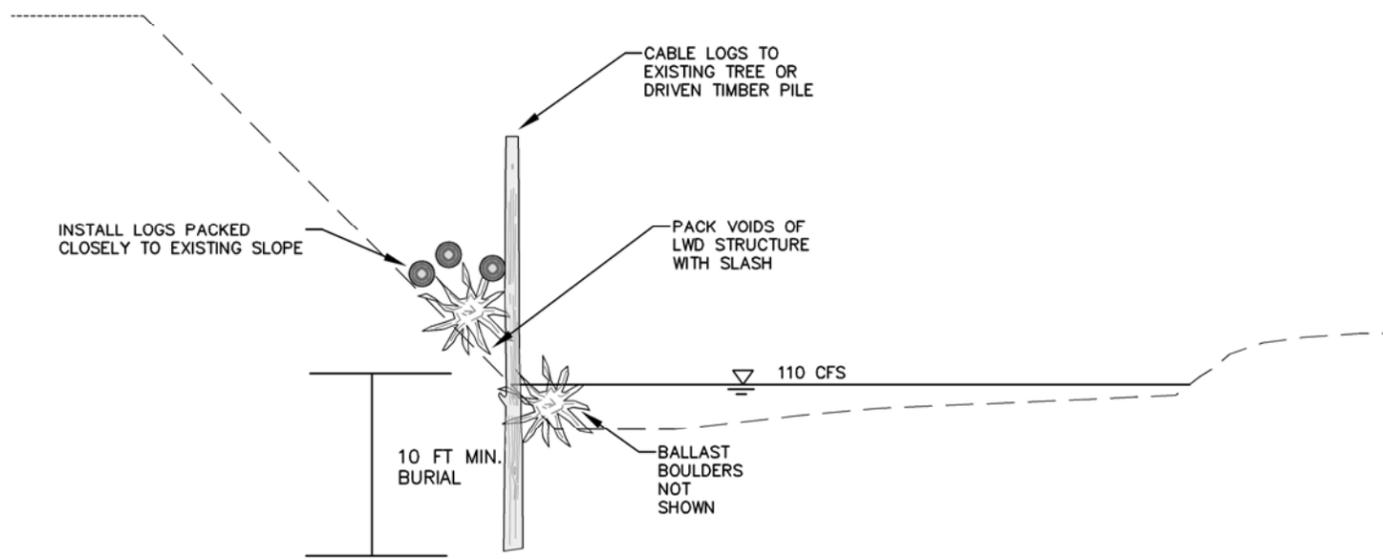
A TYPICAL SECTION
BACKWATER CHANNEL LWD
NTS

- GENERAL SHEET NOTES:**
1. MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
 2. SPECIFIC ORIENTATION OF LWD AND BALLAST MATERIALS MAY VARY FROM TYPICAL DRAWINGS DEPENDING ON SITE CONDITIONS AND SIZE AND SHAPE OF MATERIALS DELIVERED TO THE SITE.
 3. OWNER WILL COORDINATE WITH CONTRACTOR DURING PLACEMENT OF LWD TO CONFIRM PLACEMENT, ORIENTATION AND BALLASTING DURING INSTALLATION.
 4. LWD WILL BE BALLASTED TO RESIST BUOYANCY BY PARTIAL BURIAL, CABLING TO OTHER LWD, SECURING TO EXISTING TREES OR BOULDERS, OR OTHER METHODS.



2 2
4 6

TYPICAL PLAN DETAIL
POOL ENHANCEMENT LWD
NTS

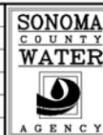


B TYPICAL SECTION
POOL ENHANCEMENT LWD
NTS



BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	



SCALE: 1" = 100'
DATE: 5/18/12
DRAWN: JT
CHECKED: MB

REVIEWED: *[Signature]*
REVIEWED: *[Signature]*

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
LWD DETAILS – BACKWATER CHANNEL
AND POOL ENHANCEMENT

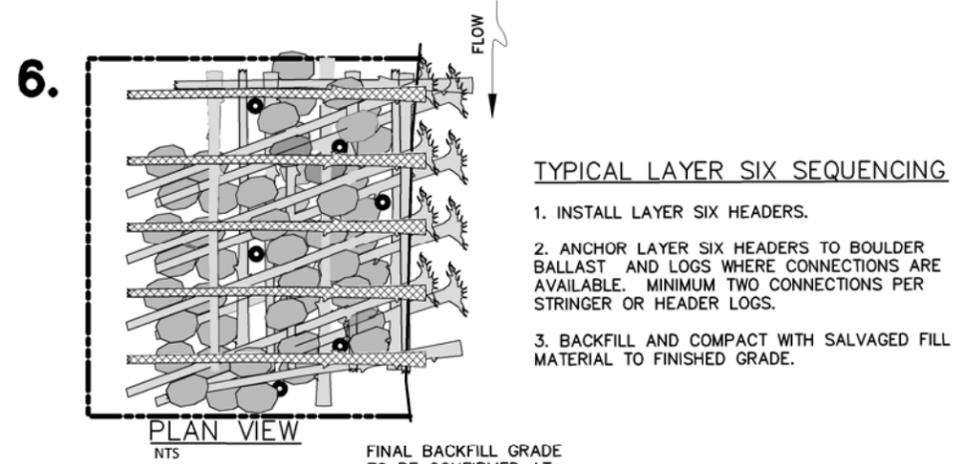
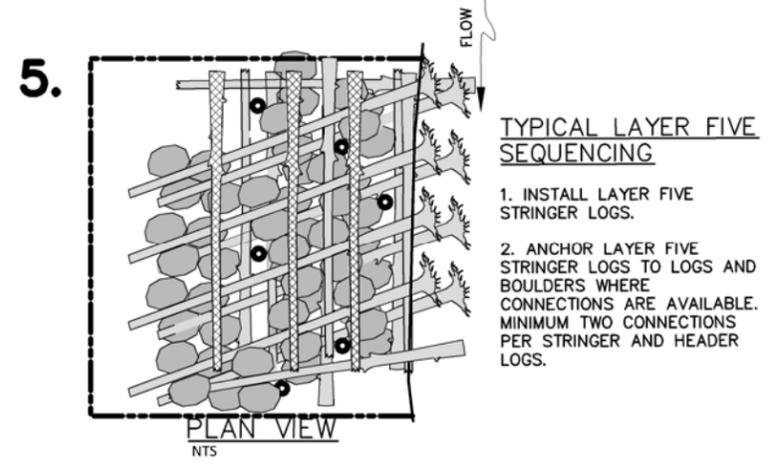
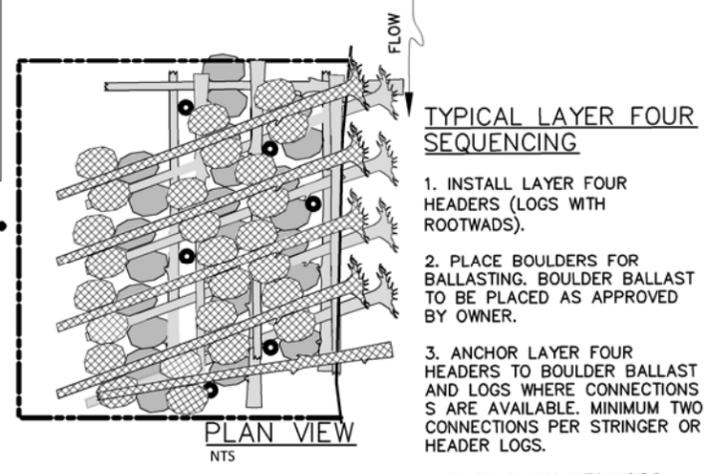
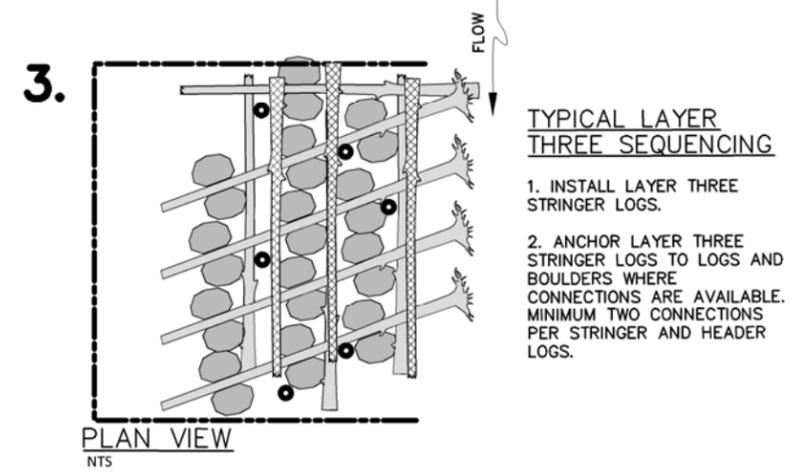
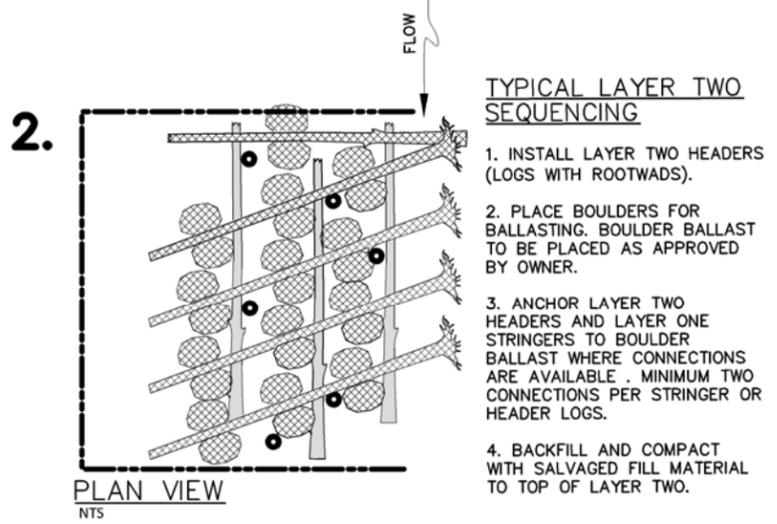
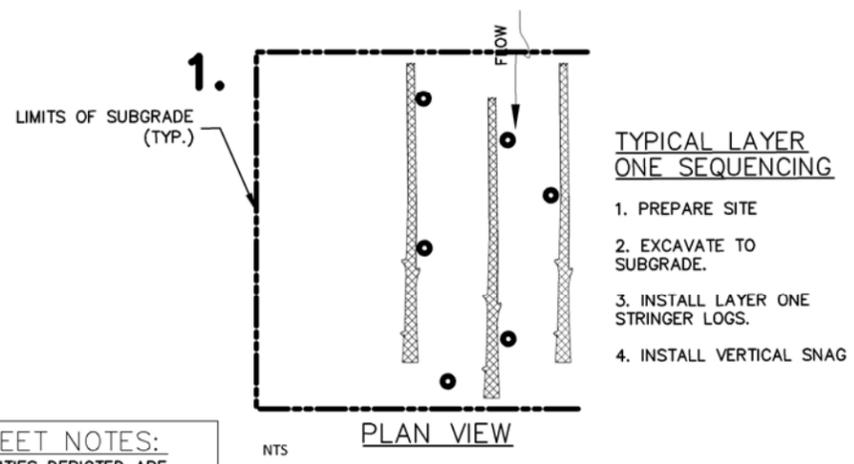
FILE NAME:
CONTRACT NUMBER: 45-6.1-7 #2

DRAWING
NUMBER:

SHEET 10 OF 15

GENERAL SHEET NOTES:

1. MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
2. SEQUENCING PROVIDED TO REFLECT GENERAL LEVEL OF EFFORT FOR LOG JAM CONSTRUCTION.
3. SPECIFIC ORIENTATION OF LWD AND BALLAST MATERIALS MAY VARY FROM TYPICAL DRAWINGS DEPENDING ON SITE CONDITIONS AND SIZE AND SHAPE OF MATERIALS DELIVERED TO THE SITE.
4. OWNER WILL COORDINATE WITH CONTRACTOR DURING PLACEMENT OF LWD TO CONFIRM PLACEMENT, ORIENTATION AND BALLASTING DURING INSTALLATION.
5. LWD WILL BE BALLASTED TO RESIST BUOYANCY BY PARTIAL BURIAL, CABLING TO OTHER LWD, SECURING TO EXISTING TREES OR BOULDERS, OR OTHER METHODS.
6. FOR CONNECTION DETAILS SEE SHEET 15.



1
-
LOG JAM
NTS



BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	

SONOMA COUNTY WATER AGENCY

SCALE: DATE: 5/18/12
DRAWN: JT
CHECKED: MB

REVIEWED: *[Signature]*
REVIEWED: *[Signature]*

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
LOG JAM DETAILS – TYPICAL SEQUENCE

FILE NAME: CONTRACT NUMBER: 45-6.1-7 #2
DRAWING NUMBER:
SHEET 11 OF 15

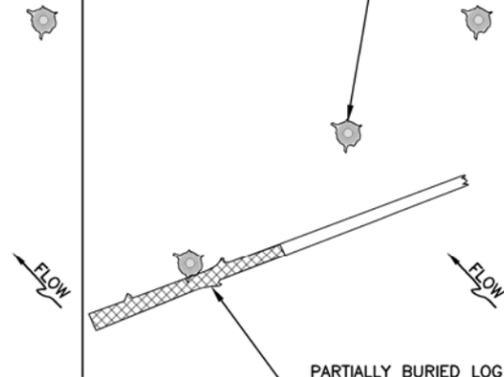
1.

VERTICAL SNAG (TYP.)
SEE SHEET 9 FOR
MINIMUM EMBEDMENT



2.

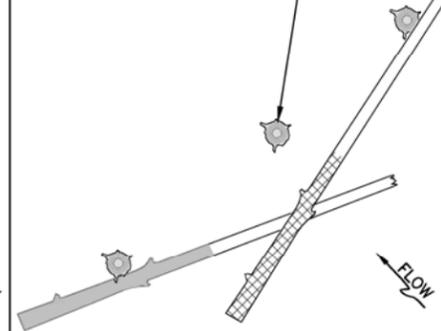
VERTICAL SNAG (TYP.)



PARTIALLY BURIED LOG
(TYP.)
SEE SHEET 9 FOR
MINIMUM BURIAL

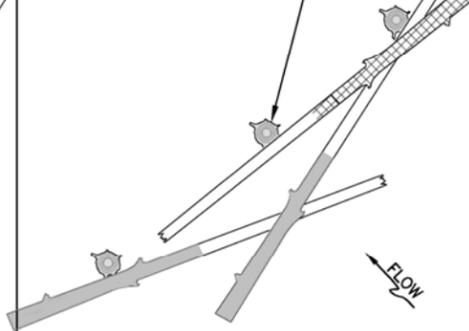
3.

VERTICAL SNAG (TYP.)



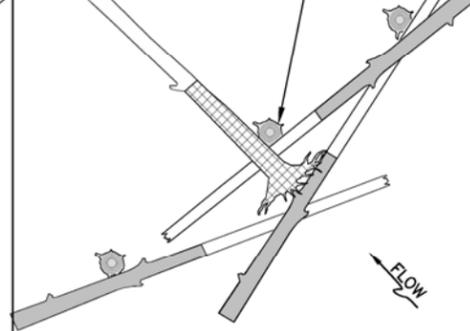
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VERTICAL SNAG (TYP.)



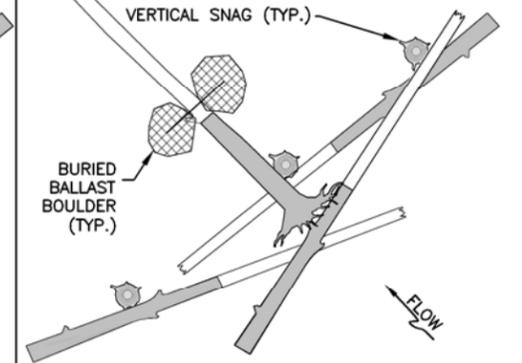
5.

VERTICAL SNAG (TYP.)



PARTIALLY BURIED LOG
WITH ROOTWAD
SEE SHEET 9 FOR
MINIMUM BURIAL

6.



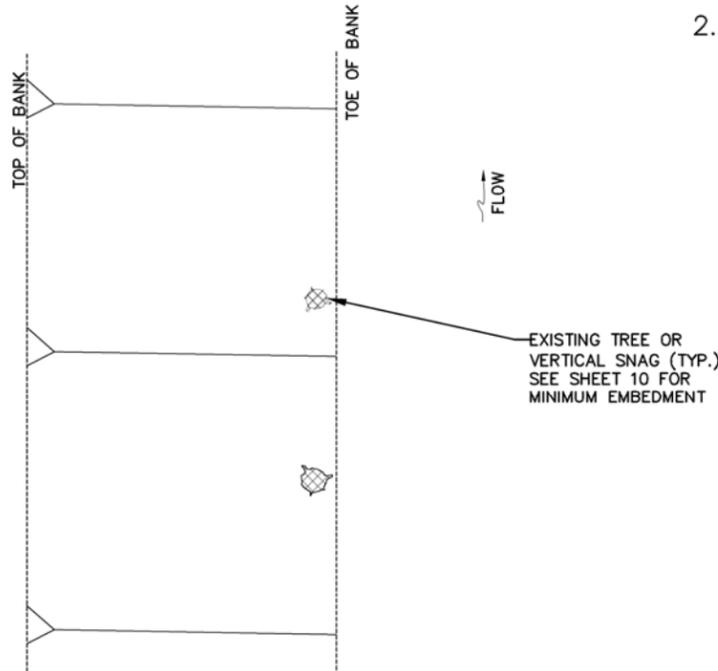
BURIED
BALLAST
BOULDER
(TYP.)

1 TYPICAL SEQUENCE
- FLOODPLAIN LWD

GENERAL SHEET NOTES:

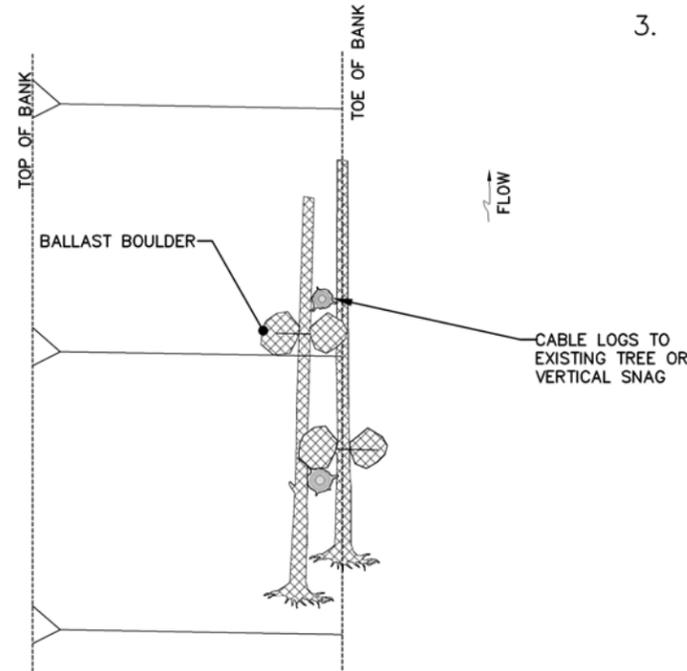
1. MATERIAL QUANTITIES DEPICTED ARE SCHEMATIC ONLY. REFERENCE SUMMARY TABLE ON SHEET 14 FOR TARGET MATERIAL QUANTITIES AT EACH LOG JAM AND LWD STRUCTURE.
2. SEQUENCING PROVIDED TO REFLECT GENERAL LEVEL OF EFFORT FOR LWD CONSTRUCTION.
3. SPECIFIC ORIENTATION OF LWD AND BALLAST MATERIALS MAY VARY FROM TYPICAL DRAWINGS DEPENDING ON SITE CONDITIONS AND SIZE AND SHAPE OF MATERIALS DELIVERED TO THE SITE.
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6. FOR CONNECTION DETAILS SEE SHEET 15.

1.



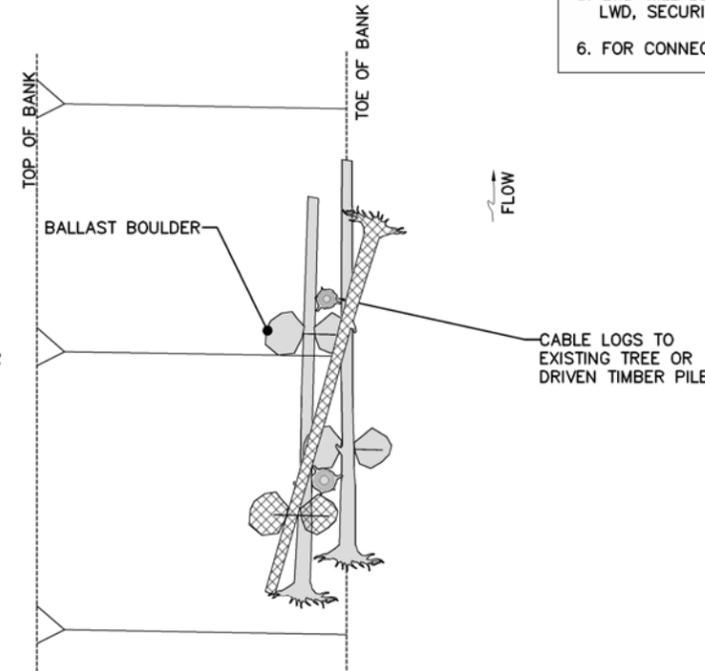
EXISTING TREE OR
VERTICAL SNAG (TYP.)
SEE SHEET 10 FOR
MINIMUM EMBEDMENT

2.

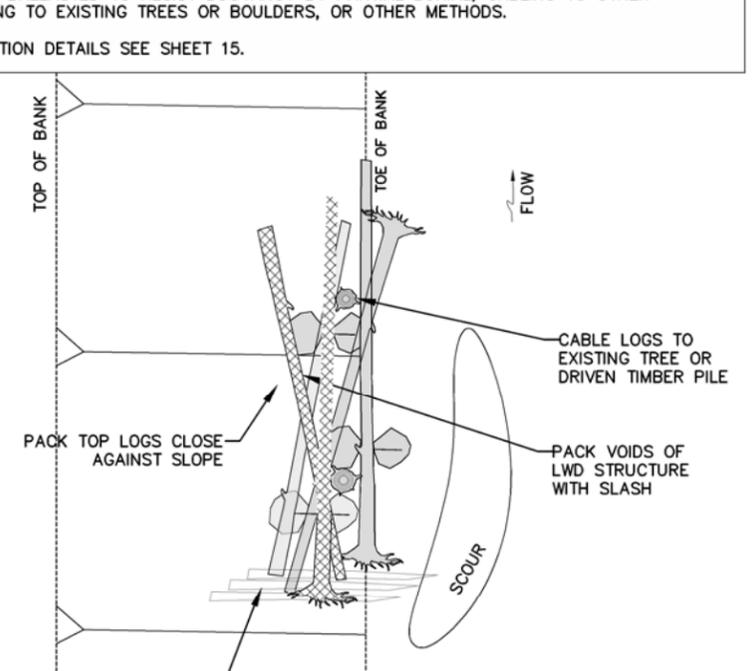


CABLE LOGS TO
EXISTING TREE OR
VERTICAL SNAG

3.



CABLE LOGS TO
EXISTING TREE OR
DRIVEN TIMBER PILE



BRACE SLASH AGAINST FRONT OF STRUCTURE
AND UNDER ENDS OF LOGS

2 TYPICAL SEQUENCE
- POOL ENHANCEMENT LWD

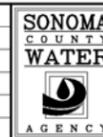


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BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY

RECORD INFORMATION				
NO.	DATE	REVISION	BY	



SCALE:
DATE: 5/18/12
DRAWN: JT
CHECKED: MB

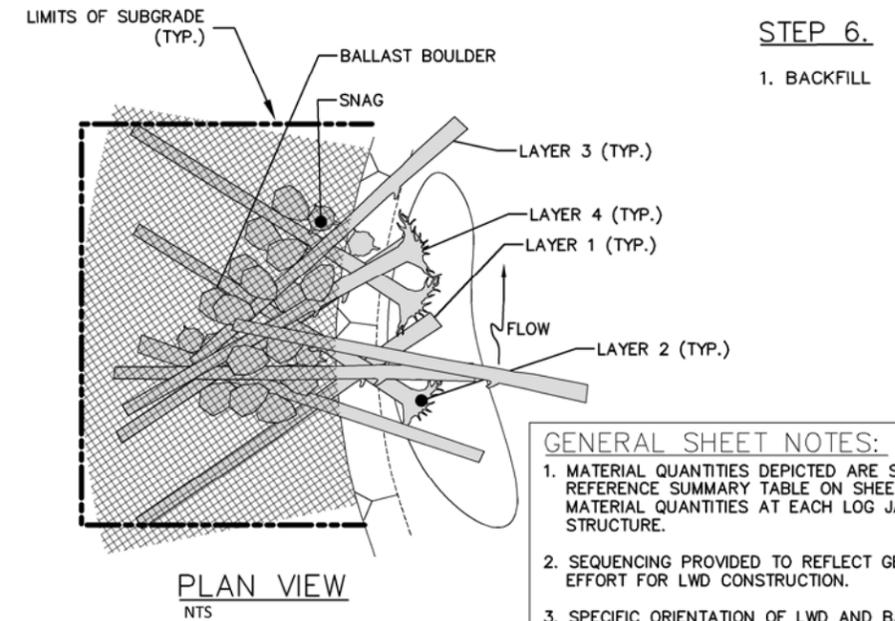
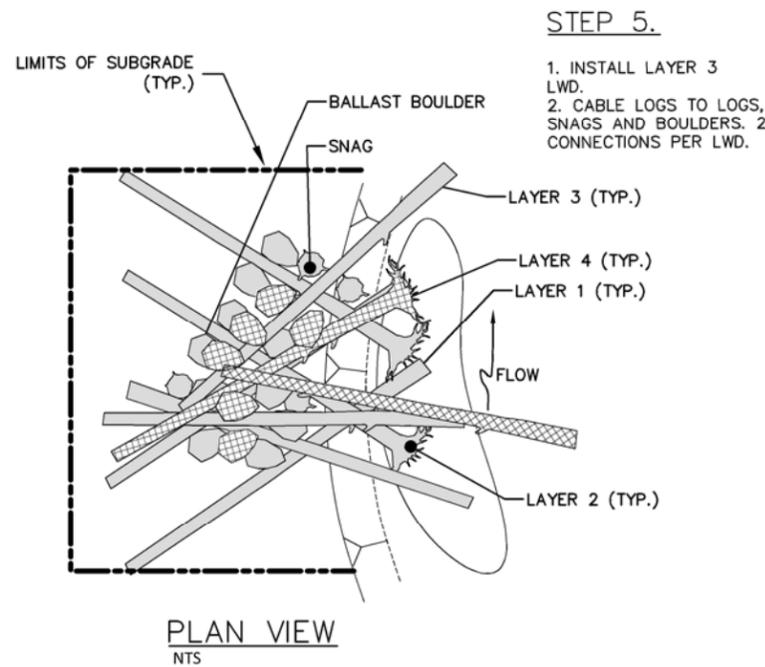
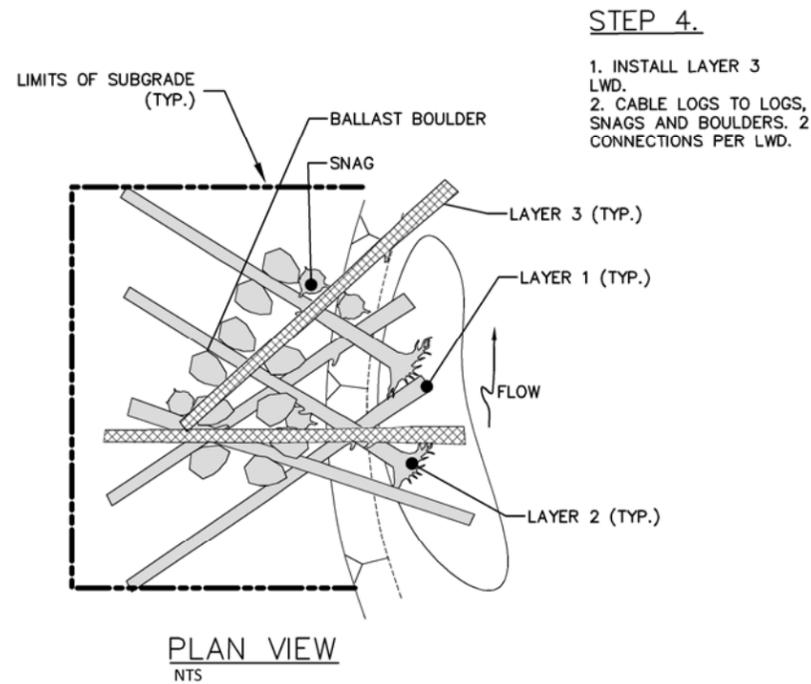
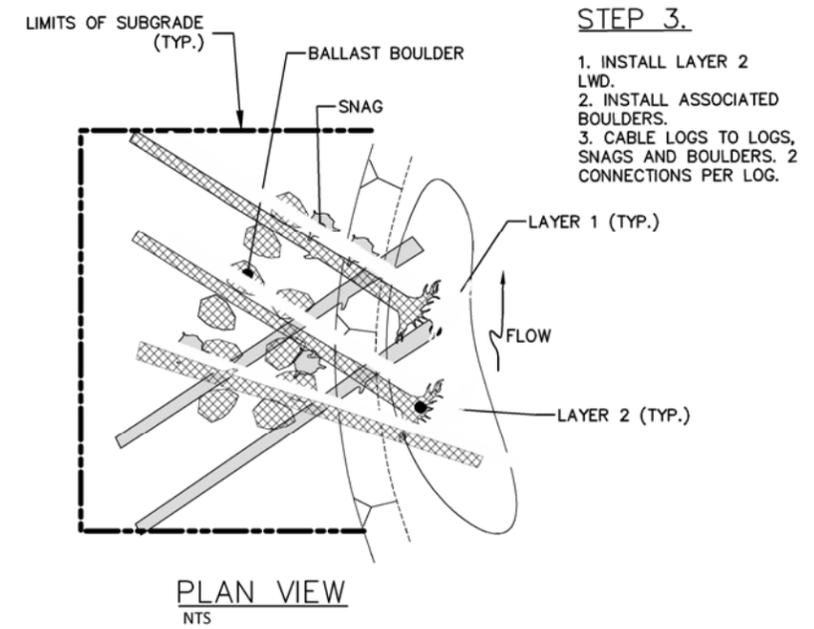
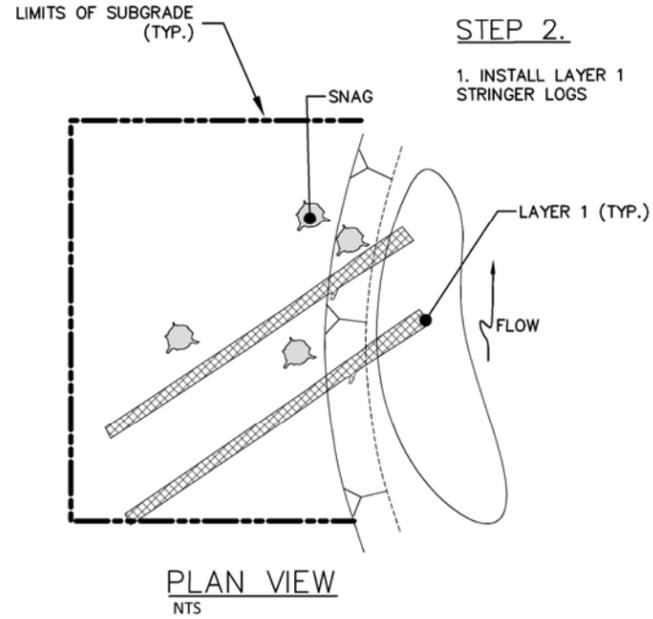
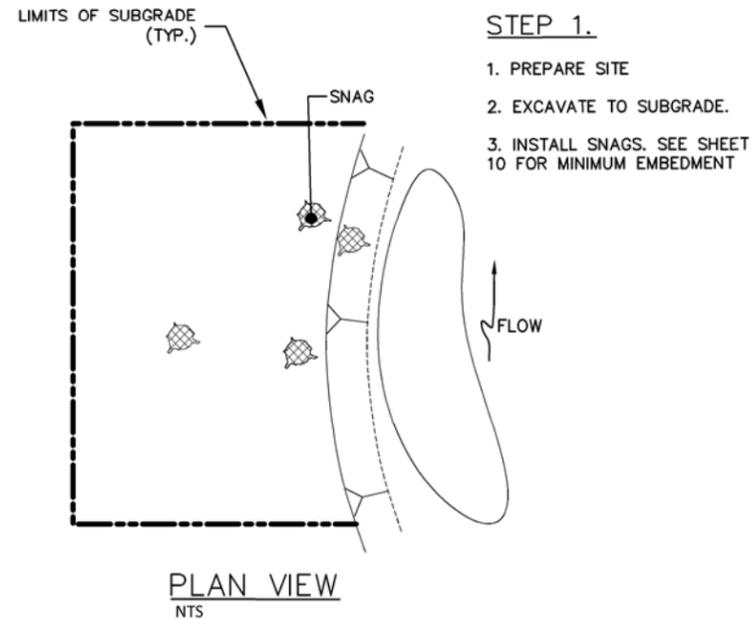
REVIEWED:
Kevin P. Burke
REVIEWED:
Kevin Gyle

DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
FLOODPLAIN AND POOL ENHANCEMENT LWD
DETAILS TYPICAL SEQUENCES

FILE NAME:
CONTRACT NUMBER: 45-6.1-7 #2

DRAWING
NUMBER:

SHEET 12 OF 15



- GENERAL SHEET NOTES:**
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1 TYPICAL SEQUENCE
BACKWATER LWD
NTS

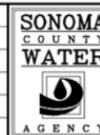


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RECORD INFORMATION				
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DATE: 5/18/12
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CHECKED: MB

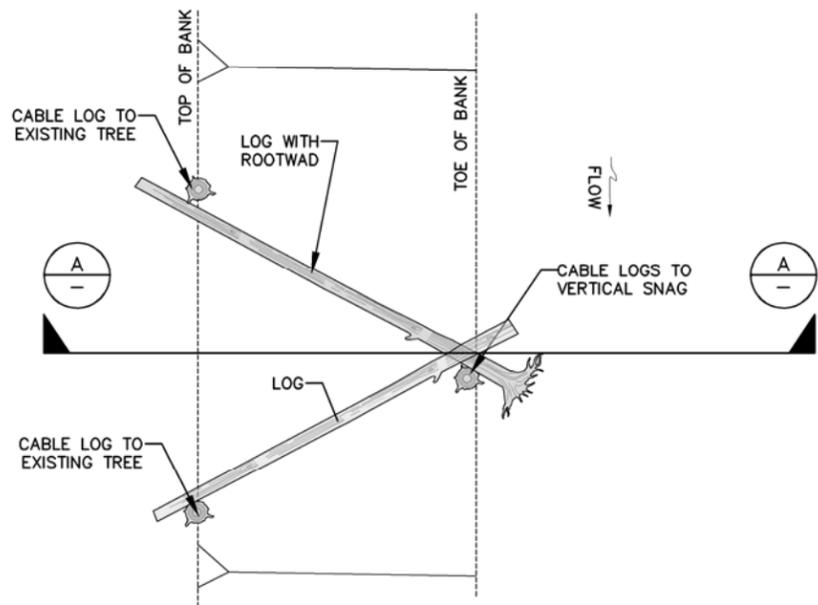
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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
BACKWATER LWD DETAILS
TYPICAL SEQUENCE

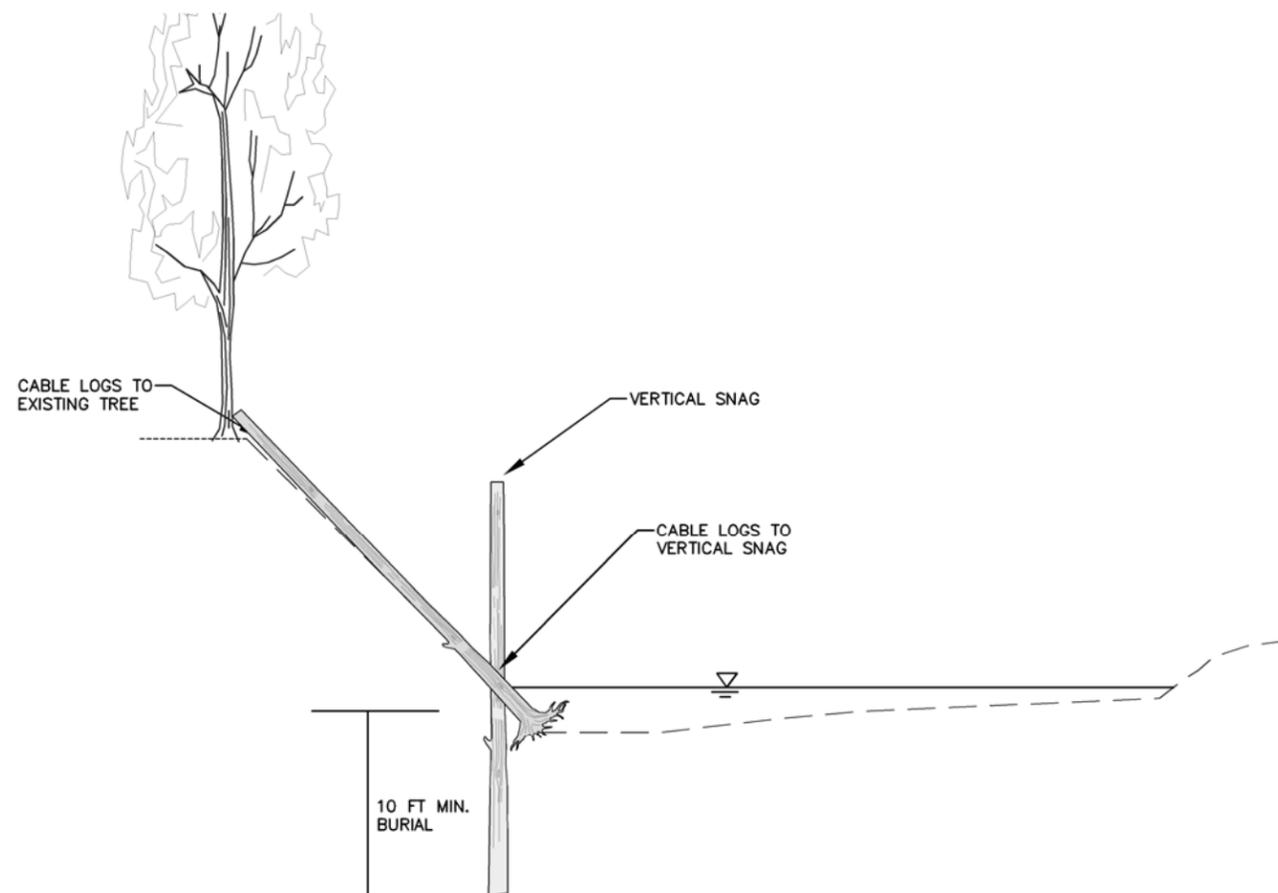
FILE NAME:
CONTRACT NUMBER: 45-6.1-7 #2

DRAWING
NUMBER:

SHEET 13 OF 15



1 1
4 6 TYPICAL PLAN DETAIL
SLOPE PLACEMENT LWD



A TYPICAL SECTION
SLOPE PLACEMENT LWD

STATION	TYPE*	NUMBER OF STRUCTURES (EA)	LOGS (EA)	LOGS WITH ROOTWADS (EA)	SNAGS (EA)	CABLE ATTACHMENTS (EA)	BALLAST BOULDERS (EA)
375+60**	LJ	1	10	5	4	30	32
380+00***	LJ	1	16	8	6	48	52
-	BW	3	18	9	12	54	54
-	P	1	2	3	2	10	10
-	FP	4	12	4	12	20	16
-	SL	3	3	3	3	12	0
TOTAL			61	32	39	174	164

* LJ: LOG JAM

BW: BACKWATER LWD

FP: FLOODPLAIN LWD

P: POOL ENHANCEMENT LWD

SL: SLOPE PLACEMENT LWD

** TREATMENT LENGTH 25 FT. MEASURED PARALLEL TO LOG JAM FACE

- SEE SHEET 6 FOR ORIENTATION

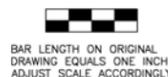
*** TREATMENT LENGTH 40 FT. MEASURED PARALLEL TO LOG JAM FACE

- SEE SHEET 6 FOR ORIENTATION

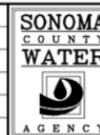
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2 SUMMARY TABLE
LOG JAM AND LWD



RECORD INFORMATION				
NO.	DATE	REVISION	BY	

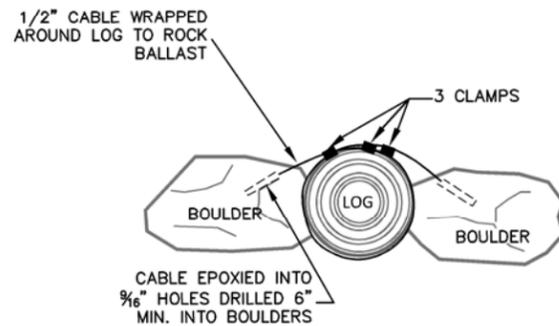


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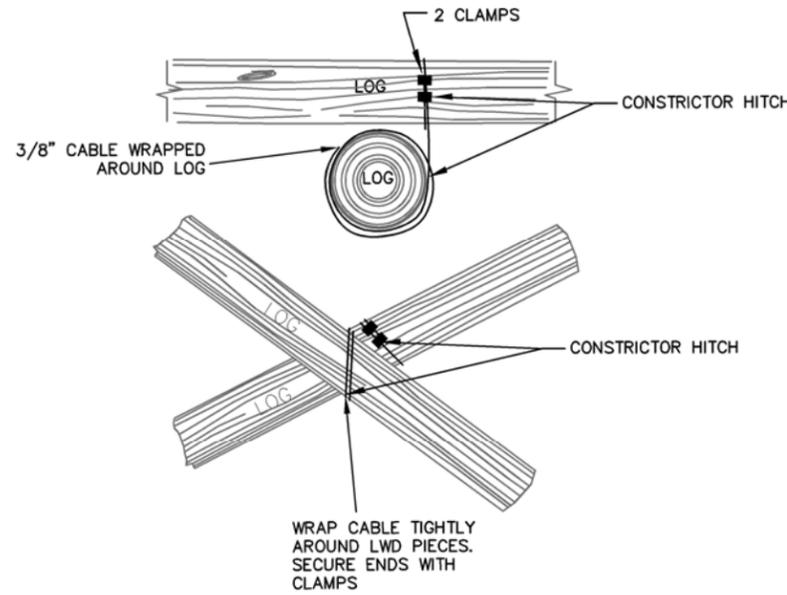
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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
SLOPE PLACEMENT LWD DETAILS AND LOG JAM
AND LWD SUMMARY TABLE

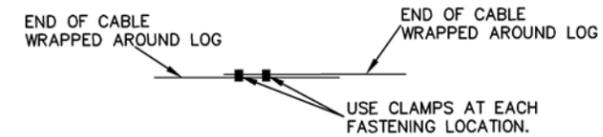
FILE NAME: CONTRACT NUMBER: 45-6.1-7 #2 DRAWING NUMBER: SHEET 14 OF 15



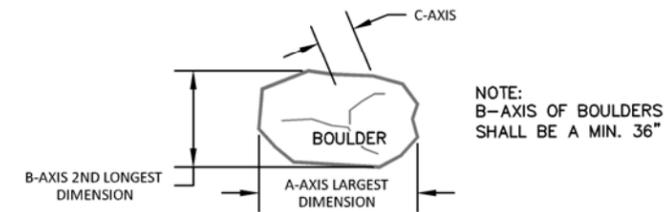
1 TYPICAL DETAIL
LOG CABLED TO BOULDERS
NTS



2 TYPICAL DETAIL
LOG CABLED TO LOG
NTS



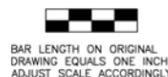
4 TYPICAL DETAIL
CABLE SPLICE
NTS



3 TYPICAL DETAIL
BALLAST BOULDER
NTS

GENERAL NOTES

1. FINAL POSITIONING OF THE ANCHORED LOG STRUCTURES SHALL BE IN THE APPROXIMATE LOCATION AS SHOWN ON THE PLANS AND AS APPROVED BY THE BY THE OWNER. CABLING SITES AS APPROVED BY OWNER.
2. ANCHORED LOG STRUCTURES SHALL BE SECURED AS SHOWN. NO GAPS SHALL EXIST BETWEEN BOULDER AND CABLED LWD. NO SLACK SHALL EXIST IN CABLE FOLLOWING EPOXY SET. CABLE SHALL BOTTOM IN DRILLED EPOXY HOLE PER MANUFACTURER'S RECOMENDATION WITH NO SLACK.
3. DRILL HOLES IN SOLID ROCK AND AVOID ANY CRACKS OR FRACTURES. HOLES SHALL BE 9/16 INCH IN DIAMETER, DRILLED 6 INCHES, MINIMUM, INTO ROCK. PREPARE DRILL HOLES PER MANUFACTURER RECOMMENDATIONS FOR EPOXY INSTALLATION.
4. CABLE SHALL BE WRAPPED ONCE AROUND LOG BEFORE ENDS ARE INSERTED INTO THE DRILLED HOLES FILLED WITH EPOXY. SEE DETAIL. WIPE CABLE WITH CLEAN RAG SOAKED IN ACETONE TO REMOVE OILS AND GREASES PRIOR TO INSERTION INTO EPOXY FILLED HOLE. FILL DRILL HOLES ENOUGH TO ENSURE COMPLETE COVERAGE WITH EPOXY. INSERT CABLE INTO HOLE SO THAT END OF CABLE HITS THE BOTTOM OF THE HOLE. EXCESS EPOXY SHOULD COME OUT OF THE TOP OF THE HOLE AS CABLE IS SEATED IN DRILL HOLE. TEST STRENGTH OF BOND BY PICKING UP LOG AFTER MINIMUM CURE TIME RECOMMENDED BY THE EPOXY MANUFACTURER. IF BOND FAILS, REPLACE WITH A NEW HOLE AND CUT THE CONTAMINATED END OFF OF THE CABLE.
5. MINIMUM 2 CLAMPS PER CONNECTION. CLAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, SPACING AND DIAMETER FOR THE SIZE AND LOAD RATING OF THE CABLE BEING USED.



RECORD INFORMATION				
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DRY CREEK HABITAT ENHANCEMENT DEMONSTRATION PROJECT
LWD DETAILS – CABLING AND
BALLASTING

FILE NAME:	DRAWING NUMBER:	SHEET 15 OF 15
CONTRACT NUMBER: 45-6.1-7 #2		

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