

# Riprap Bank



Cost Estimate					
PAY ITEM	DESCRIPTION	UNIT	UNIT PRICE	OPTION 1: RIPRAP	
				QUANTITY	TOTAL COST
1	POND DRAW-DOWN	L. SUM	\$ 74,000.00	1	\$ 74,000.00
2	EARTH EXCAVATION	C.Y.	\$ 80.00	800	\$ 64,000.00
3	GRADING AND SHAPING DITCHES	L.F.	\$ 40.00	1,570	\$ 62,800.00
4	SEEDING, CLASS 1	ACRE	\$ 8,000.00	0.19	\$ 1,496.00
5	TEMPORARY EROSION AND SEDIMENT CONTROLS	L. SUM	\$ 5,000.00	1	\$ 5,000.00
6	MOBILIZATION	L. SUM	\$ 10,000.00	1	\$ 10,000.00
7	STONE RIPRAP, RR3	C.Y.	\$ 85.00	800	\$ 68,000.00
SUBTOTAL					\$ 285,296
15% Contingency					\$ 42,794
<b>TOTAL</b>					<b>\$ 328,090</b>

Option 1: Riprap	
Pros	Cons
Stabilizes Bank	More Canada Geese: they enjoy mowed lawn and riprap  Less Ecological Value
Minimal Maintenance	
Clean Look	
Durable and long-lasting	

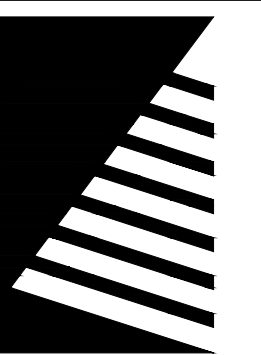
# Native Plantings Shoreline



Cost Estimate					
PAY ITEM	DESCRIPTION	UNIT	UNIT PRICE	RIPRAP 2: NATIVE PLANTING	
				QUANTITY	TOTAL COST
1	POND DRAW-DOWN	L. SUM	\$ 74,000.00	1	\$ 74,000.00
2	EARTH EXCAVATION	C.Y.	\$ 80.00	325	\$ 26,000.00
3	GRADING AND SHAPING DITCHES	S.Y.	\$ 40.00	663	\$ 26,520.00
5	TEMPORARY EROSION AND SEDIMENT CONTROLS	L. SUM	\$ 5,000.00	1	\$ 5,000.00
6	MOBILIZATION	L. SUM	\$ 10,000.00	1	\$ 10,000.00
7	EROSION CONTROL BLANKET	S.Y.	\$ 8.00	3,850	\$ 30,800.00
8	SEEDING, CLASS 4B	ACRE	\$ 10,000.00	0.20	\$ 2,000.00
9	SEEDING, CLASS 5B	ACRE	\$ 10,000.00	0.60	\$ 6,000.00
SUBTOTAL					\$ 180,320
15% Contingency					\$ 27,048
<b>TOTAL</b>					<b>\$ 207,368</b>



Option 2: Native Plantings	
Pros	Cons
Stabilizes Bank	Maintenance: Weeding Natives
Aesthetically Pleasing	More untidy, wild look
Pollinator-friendly	Requires plants to mature until full stabilization
Mowing not required near water	
Fewer Canada Geese: they dislike tall plants	
Filters runoff entering the basin, providing improved water quality	



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ISSUE:  
# DATE: DESCRIPTION:

**Project Status**  
NOT FOR CONSTRUCTION

PROJECT:  
VILLAGE OF SAVOY

## FIELDSTONE BASIN SHORELINE PROTECTION

SAVOY, IL

DATE: 08/29/22

DESIGNED: AD

DRAWN: EBM

REVIEWED: EPJ

FIELD BOOK NO.:

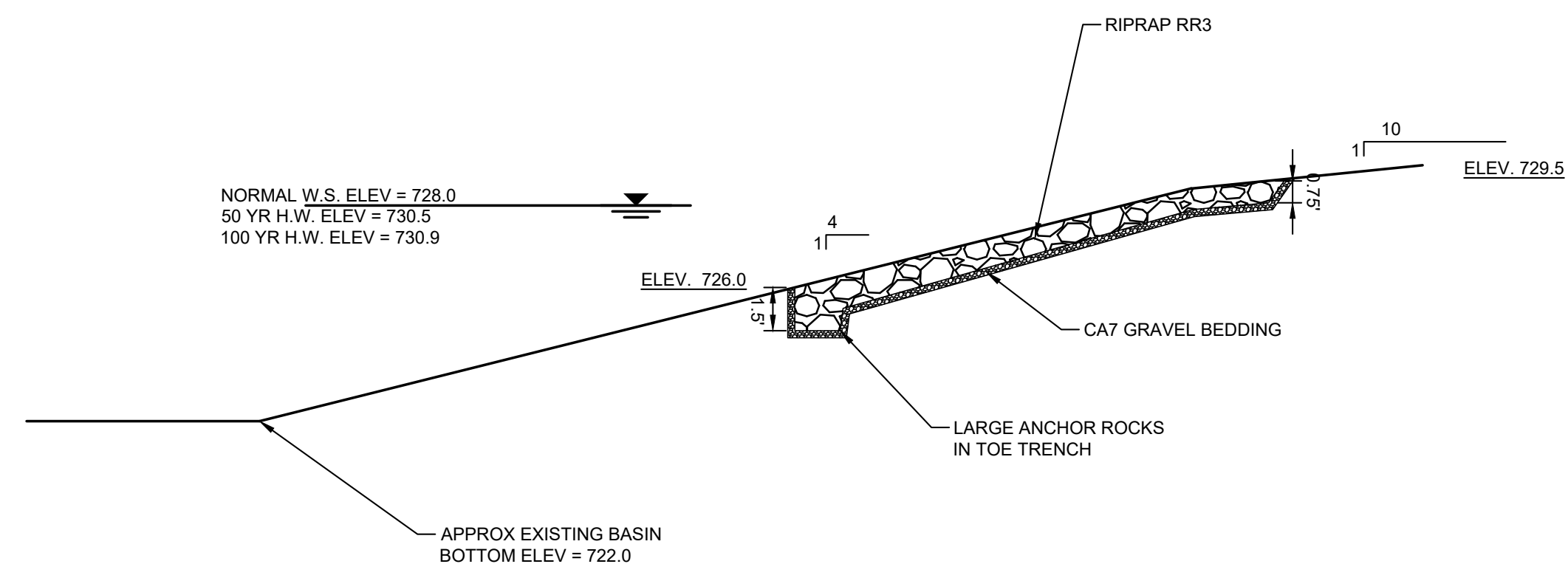
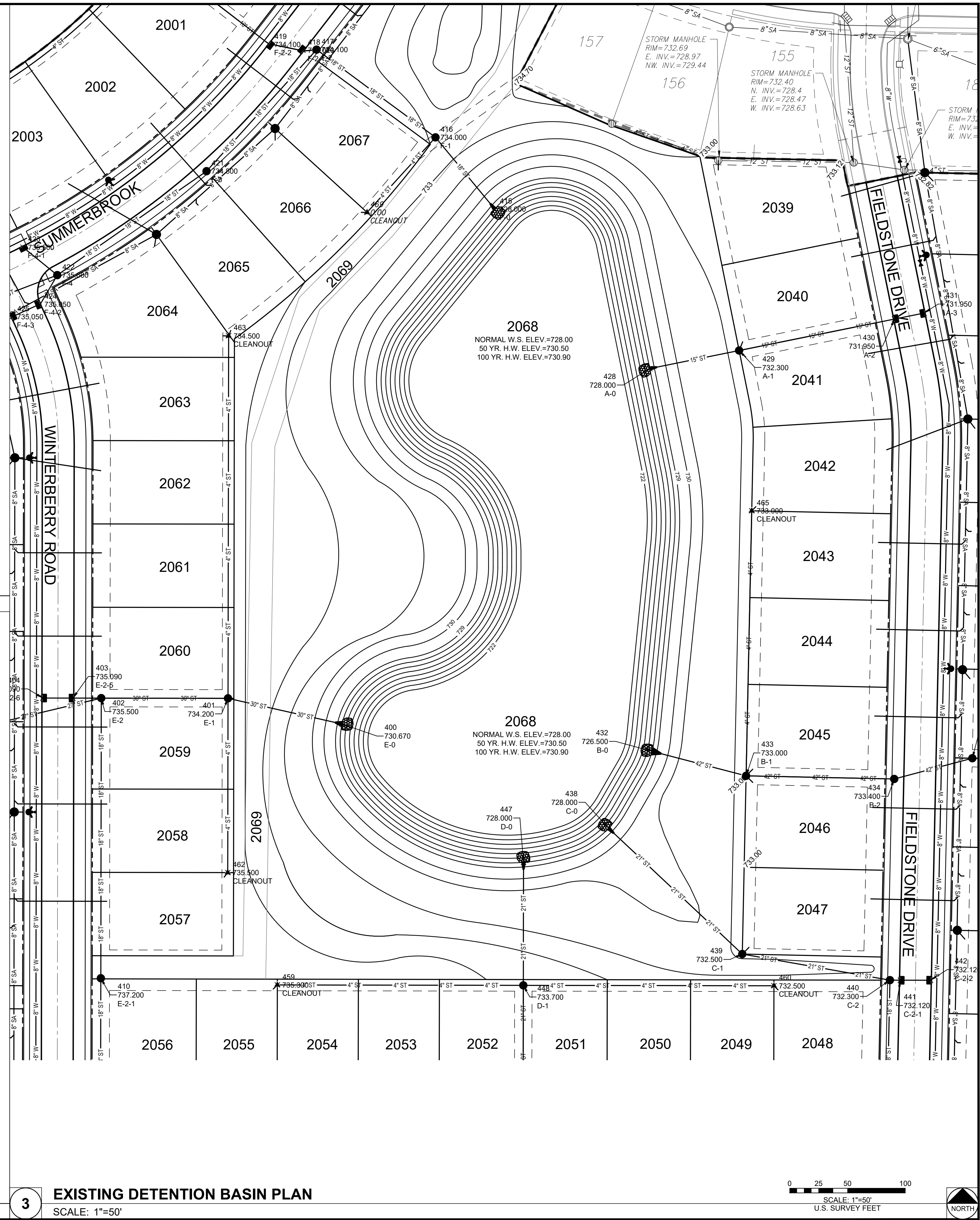
SHEET TITLE:

## DESIGN OPTIONS

SHEET NUMBER:

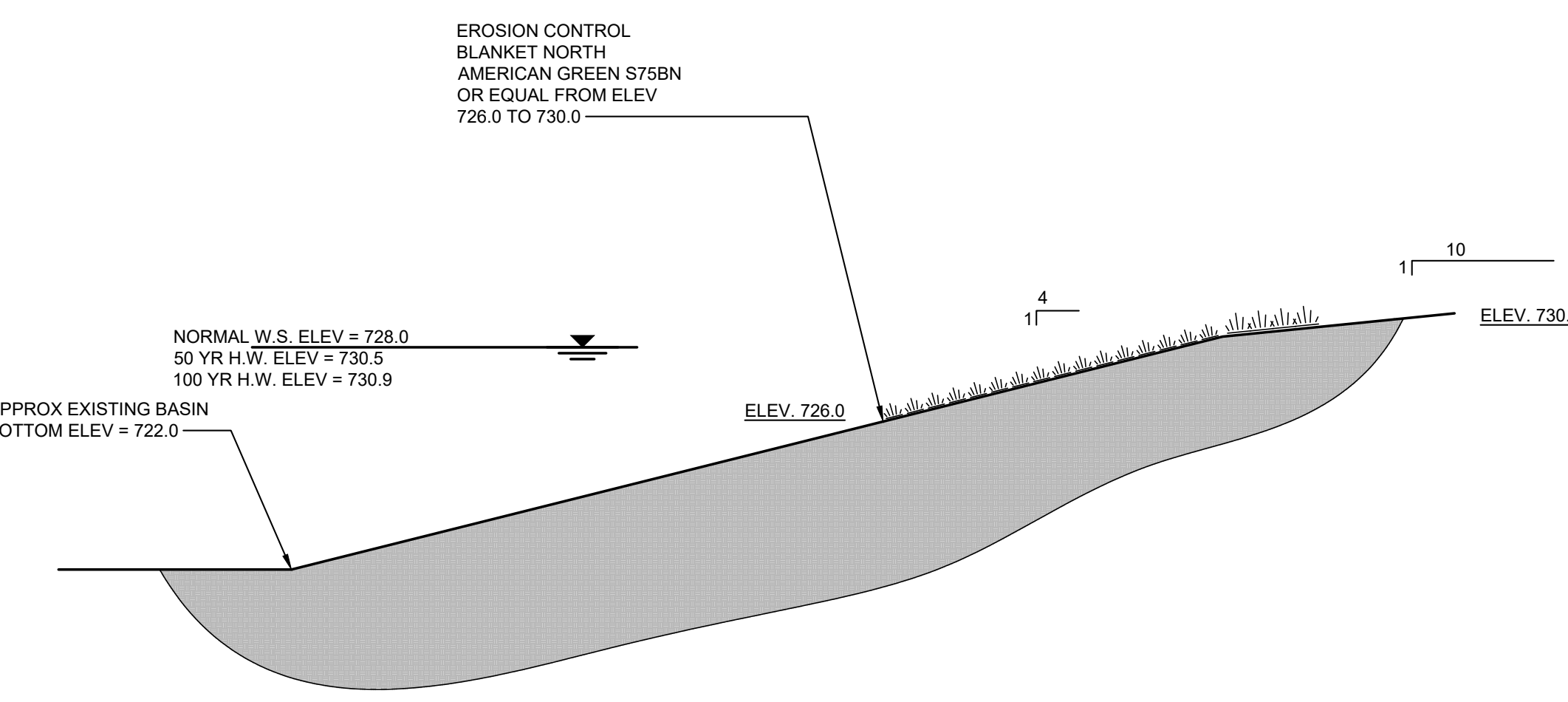
# C1.0

PROJECT NO.: #####



- NOTES:
1. RECONSTRUCT BANK AT 4:1 SLOPE FROM 729.0 ELEV DOWN TO EXISTING BASIN SIDE. RECONSTRUCT 10:1 SLOPE FROM 729.0 UP TO 730.0.
  2. SEED DISTURBED AREAS WITH IDOT CLASS 1: LAWN

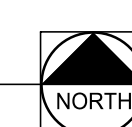
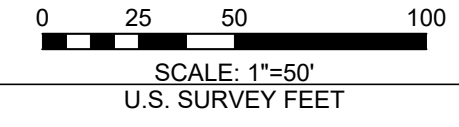
### 1 OPTION 1: RIPRAP BANK SCALE: NOT TO SCALE



- NOTES:
1. RECONSTRUCT BANK AT 4:1 SLOPE FROM 729.0 ELEV DOWN TO EXISTING BASIN SIDE. RECONSTRUCT 10:1 SLOPE FROM 729.0 UP TO 730.0.
  2. SEED FROM ELEV 726.0 TO 730.0 WITH 25% IDOT CLASS 4B WETLAND GRASS AND SEDGE MIX 75% IDOT CLASS 5B WETLAND FORB MIX

### 2 OPTION 2: NATIVE PLANTINGS SCALE: NOT TO SCALE

### 3 EXISTING DETENTION BASIN PLAN SCALE: 1"=50'



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