ROCK ARMORED SPILLWAY. CREST SET 2' BELOW BERM ELEVATION

EXISTING ROAD

CLASS III WATERCOURSE

22' THICK DOWNSTREAM BERM, <25' HEIGHT TO AVOID DSOD JURISDICTION
8' CUT BENCH
2.5:1 CUTS, 3:1 FILLS EXCEPT WHERE NOTED
44,200 CY CUT, 16,100 FILL, NET: 28,100 CUT
8.585 MILLION GALLONS VOLUME AT 2' FREEBOARD

COX CREEK MEADOW
FLOW ENHANCEMENT
POND

HUMBOLDT COUNTY, CA

PLAN VIEW (IMAGERY)
PROJECT OBJECTIVE: MULTI-BENEFIT OFF-STREAM PONDS TO SUPPLY WATER FOR: WATERING ROADS, FIRE SUPPRESSION, AND FLOW AUGMENTATION.

FLOW AUGMENTATION RELEASE FROM BOTH PONDS VIA VALVED PIPES INTO WETLAND FOR, PASSIVE FILTRATION AND COOLING DURING CONVEYANCE TO SPROUL CREEK THROUGH EXISTING GROUNDWATER CONNECTION.

WESTERN POND DESIGN DETAILS
ALL SIDE SLOPES AT ~2:1 (H:V); ~15' WIDE BERM WITH CREST AT ~426' MAX ELEV; PROVIDE ~3% CROSS SLOPE INWARD; SET POND BOTTOM AT ~405' AND PROVIDE CONTINUOUS LINER WITHIN BASIN; PROVIDE ~2' OF FREEBOARD TO PRODUCE A MAX POND DEPTH OF ~19'; EARTHWORK BALANCES ONSITE AT ~4,000 CYD; IMPOUNDED VOLUME ~ 1.43 MILLION GALLONS

EASTERN POND DESIGN DETAILS
ALL SIDE SLOPES AT ~2:1 (H:V); ~15' WIDE BERM WITH CREST AT ~427' MAX ELEV; PROVIDE ~3% CROSS SLOPE INWARD; SET POND BOTTOM AT ~405' AND PROVIDE CONTINUOUS LINER WITHIN BASIN; PROVIDE ~2' OF FREEBOARD TO PRODUCE A MAX POND DEPTH OF ~20'; EARTHWORK BALANCES ONSITE AT ~8,500 CYD; IMPOUNDED VOLUME ~3.00 MILLION GALLONS

PROPOSED POND OVERVIEW SHEET

SPROUL CREEK FLOW ENHANCEMENT PONDS FEASIBILITY AND SIZING HISTORIC MILL SITE, GREEN DIAMOND PROPERTY

DESIGN: JM
DRAWN: BW
CHECKED: JM
APPROVED: JM

PROJECT NUMBER: 603.3
SCALE: AS NOTED
DATE: 11/29/21

PROPOSED PONDS AT HISTORIC MILL SITE

SPROUL CREEK SIDE CHANNEL
SPROUL CREEK MAIN CHANNEL
WETLAND AREA
LANDING AND TURNAROUND AREA ~1 ACRE
WETLAND DETAIL
WESTERN POND DETAIL
EASTERN POND DETAIL
WETLAND DETAIL

SEE TYPICAL WESTERN POND SECTION NEXT SHEET
SEE TYPICAL EASTERN POND SECTION NEXT SHEET