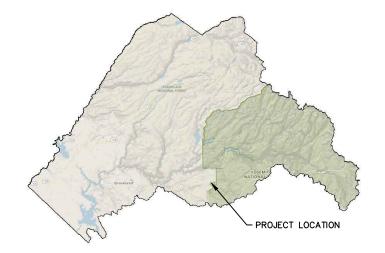
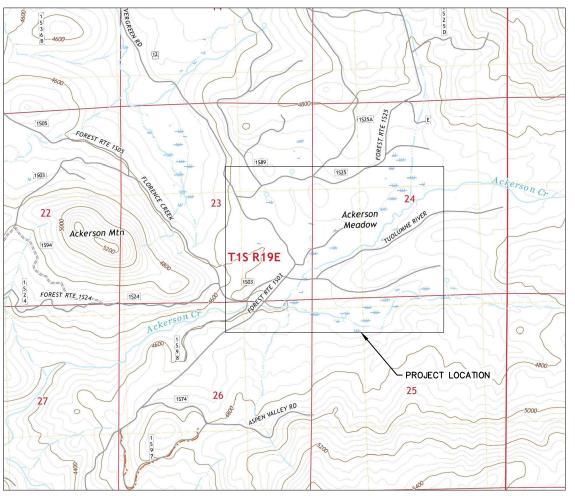
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SUBSHEET G1

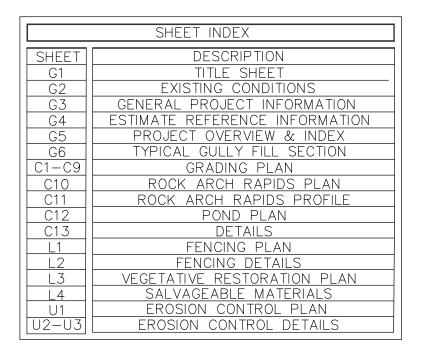
ACKERSON MEADOW RESTORATION TUOLUMNE COUNTY, CALIFORNIA



TUOLUMNE COUNTY CALIFORNIA



PROJECT LOCATION

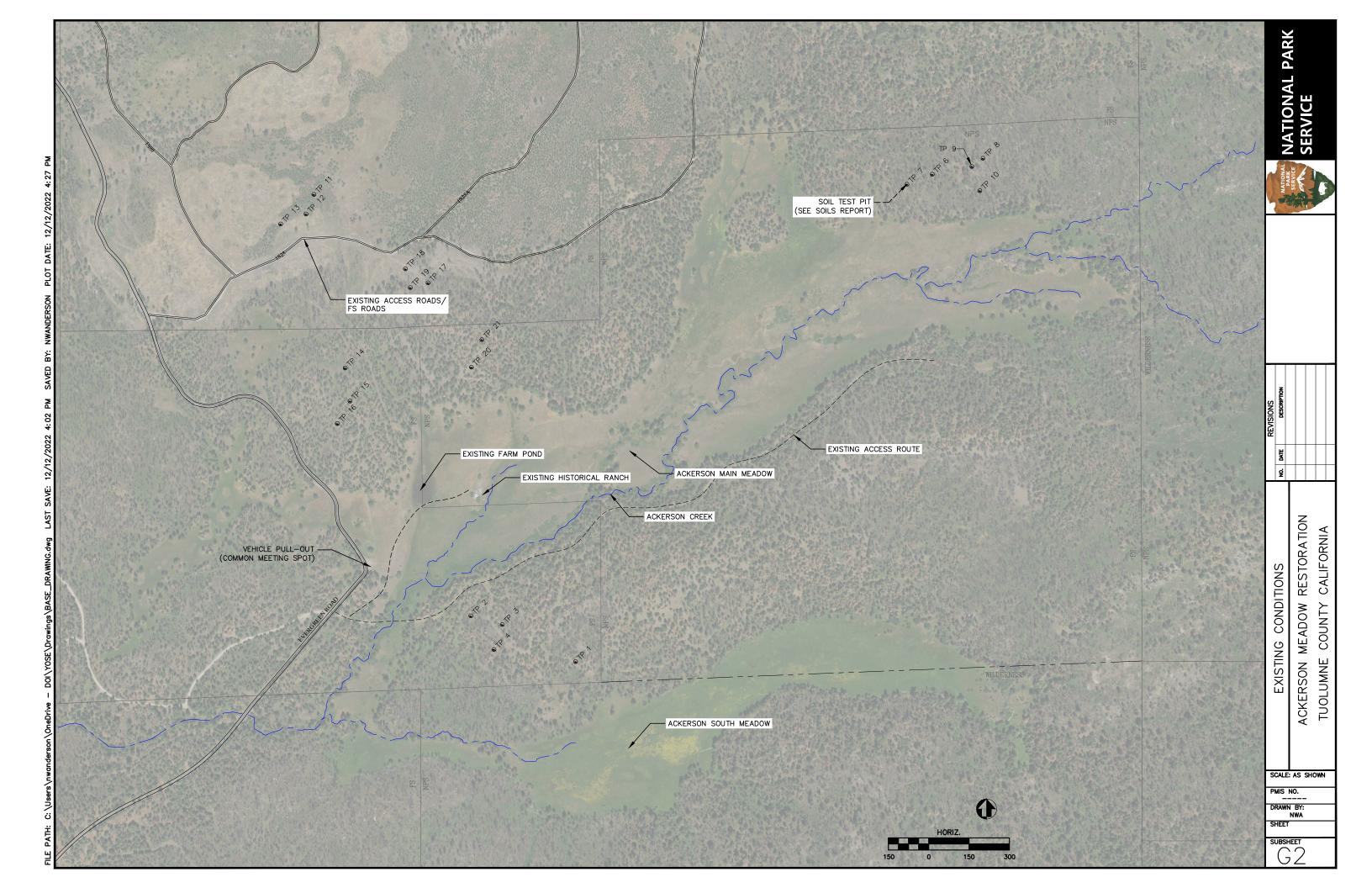


PROJECT PARTNERS









- 2. TO PREVENT UNNATURAL ATTRACTANTS TO WILDLIFE, KEEP ALL FOODS, PETFOODS, GARBAGE, DRINKS, TRASH, OR FOOD AND DRINK CONTAINERS INSIDE VEHICLES, IN BEAR-PROOF CONTAINERS, OR ENCLOSED CONSTRUCTION EQUIPMENT, EXCEPT DURING ACTUAL USE. CONTRACTOR SUPPLIED GARBAGE BINS, WITHIN THE CONSTRUCTION SITE MUST BE BEAR PROOF AND MEET PARK REQUIREMENTS. REMOVE ALL GARBAGE AND FOOD TRASH FROM THE PROJECT SITE DAILY.
- 3. ALL VEHICLES AND EQUIPMENT WILL BE INSPECTED BY THE ENGINEER'S REPRESENTATIVE BEFORE THEIR INITIAL ENTRY INTO THE SITE FOR MUD, WEEDS, AND OTHER UNWANTED SUBSTANCES. POWER-WASH ALL EARTH-MOVING EQUIPMENT (INCLUDING HAULING VEHICLES) OF MUD AND WEEDS BEFORE ARRIVING ON-SITE. DIRTY EQUIPMENT WILL NOT BE ALLOWED TO ENTER.
- 4. ALL FILL MATERIAL NOT ORIGINATING ON—SITE MUST BE CLEAN AND FREE OF VEGETATION TO AVOID THE SPREAD OF INVASIVE SPECIES. AGGREGATE AND FILL MATERIAL CONTAINING VEGETATION SHALL BE REJECTED.
- 5. ALL CONSTRUCTION DEBRIS IS TO BE HAULED FROM THE PROJECT SITE TO A PROPER DISPOSAL LOCATION COMPLIANT WITH ALL LOCAL, STATE AND FEDERAL LAWS.
- ALL TOOLS, EQUIPMENT, SURPLUS MATERIALS, AND RUBBISH WILL BE REMOVED FROM THE PROJECT SITE UPON PROJECT COMPLETION.
- 7. INSTALL TEMPORARY BARRIERS TO PROTECT EXISTING TREES WITHIN THE WORK AREA THAT ARE TO REAMIN.
- 8. DO NOT USE IMPORTED HAY/STRAW BALES DURING CONSTRUCTION.
- 9. ALL BMPS MUST BE MADE FROM MATERIALS THAT DO NOT CONTAIN SEEDS. PERMANENT BMPS MUST BE MADE FROM NATURAL MATERIALS.
- 10. COVER ALL HAUL TRUCKS BRINGING FILL MATERIALS FROM OUTSIDE THE PARK.
- 11. CONDUCT MACHINERY MAINTENANCE AND REFUELING AT A DISTANCE OF 150 FEET OR GREATER FROM ANY SURFACE WATERS AND WETLANDS.
- 12. INSTRUCT ALL WORKERS TO CONFINE CONSTRUCTION ACTIVITIES TO WITHIN THE CONSTRUCTION LIMITS.
- 13. AVOID ENTRAPMENT OF WILDLIFE BY COVERING HOLES AT THE END OF EACH WORK DAY.
- 14. ALL PROJECT ACTIONS WITHIN DESIGNATED WILDERNESS MUST CONFORM TO THE WILDERNESS ACT (1964), AND THE PROJECT MINIMUM REQUIREMENTS ANALYSIS.

ENVIRONMENTAL MITIGATION REQUIREMENTS BY REFERENCE

- AN ENVIRONMENTAL ASSESSMENT (EA) AND INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (MND) WAS COMPLETED FOR THIS PROJECT IN 2021 AND 2022. THE EA RESULTED IN A FINDING OF NO SIGNIFICANT IMPACT (FONSI). A COPY OF THE FONSI AND THE MND ARE INCLUDED WITH THE PROJECT SPECIFICATIONS.
- 2. THE FONSI AND MND CONTAINS NUMEROUS AGREED UPON MITIGATION MEASURES TO AVOID AND MINIMIZE ENVIRONMENTAL IMPACTS.
- 3. MOST OF THE MITIGATION MEASURES HAVE BEEN SPECIFICALLY DESIGNATED AND/OR SPECIFIED TO THE CONTRACTOR IN THE PLANS AND SPECIFICATIONS. FOR EXAMPLE, THE REQUIREMENT TO OBTAIN PERMITS AND DEVELOP VARIOUS PLANS ARE ADDRESSED IN THE SPECIFICATIONS. OTHER REQUIREMENTS REQUIRE THE CONTRACTOR TO COORDINATE WITH THE NPS AND CONDUCT THEIR OPERATIONS IS A COORDINATED MANNER.
- 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE REQUIRED MITIGATION MEASURES AND SHALL BE REQUIRED TO CONDUCT OPERATIONS IN SUCH A WAY AS TO MEET THE REQUIREMENTS DETAILED IN THE FONSI AND MND.

PROJECT STAGING AREA

- THE PROJECT STAGING AREA IS SHOWN IN THE PLANS. THE EXTENT OF USE OF THE STAGING AREA SHALL GENERALLY BE LEFT TO THE CONTRACTOR EXCEPT AS NOTED BELOW.
- 2. THE STAGING AREA SHALL BE USED FOR TEMPORARY FIELD OFFICES AND SHALL BE THE PRIMARY PARKING LOCATION. THE STAGING AREA SHALL ALSO BE USED FOR ALL SEASONAL EQUIPMENT STORAGE.
- 3. THE STAGING AREA IS CURRENTLY THE AREA DESIGNATED TO RECEIVE DELIVERIES OF FURNISHED MATERIALS VIA SEPARATE CONTRACTS. HOWEVER, THE CONTRACTOR MAY COORDINATE WITH THE DELIVERY SUPPLIERS TO DELIVER MATERIALS AT OTHER ALLOWABLE LOCATIONS IF IT IS AGREEABLE TO BOTH PARTIES. REGARDLESS OF WHERE THE MATERIALS ARE DELIVERED, THE CONTRACTOR SHALL PREPARE THE DELIVERY AREA TO MEET THE NEEDS OF THE SUPPLIERS.
- 4. PRIOR TO USE OF THE STAGING AREA THE CONTRACTOR SHALL PREPARE THE SITE TO THE EXTENT REQUIRED, INCLUDING THE REMOVAL OF HAZARD TREES, SNAGS, AND STUMPS. IF EARTH FILL MATERIALS AND/OR ACCESS ROUTES ARE TO BE PLACED WITHIN THE STAGING AREA, THE PLACEMENT AREAS SHALL BE STRIPPED OF TOPSOIL AND THE TOPSOIL SHALL BE STOCKPILED.
- 5. ALL DISTURBED AREAS WITHIN THE STAGING AREA SHALL BE RESTORED UPON COMPLETION. RESTORATION INCLUDES SPREADING OF STRIPPED TOPSOIL, RIPPING THE SOIL TO A DEPTH OF 24", AND SPREADING 1"-2" OF WOOD CHIPS TO ACHIEVE 70% COVER.

ACCESS ROUTES

- 1. CLEAR AND GRUB ACCESS ROUTES AS SHOWN.
- 2. SENSITIVE ARCHEOLOGICAL FEATURES REQUIRE STRICT ADHERENCE TO THE USE OF SPECIFIED ACCESS ROUTES.
- CONTRACTOR SHALL MARK AND MAINTAIN ACCESS ROUTES THROUGHOUT CONSTRUCTION.
 DO NOT DEVIATE OUTSIDE OF ACCESS ROUTES AND AREAS MARKED FOR GRADING
 WITHOUT PRIOR APPROVAL FROM THE ENGINEER'S REPRESENTATIVE.
- 4. THE LEVEL OF EFFORT NEEDED TO ESTABLISH AND MAINTAIN THE ACCESS ROUTES SHALL BE LEFT TO THE CONTRACTOR.
- 5. ALL AREAS DESIGNATED AS FILL OR BORROW MAY BE USED FOR ACCESS.
- 6. UPON PROJECT COMPLETION, ACCESS ROUTES NOT MARKED TO BE MAINTAINED SHALL BE REMOVED AND RESTORED TO ORIGINAL CONDITIONS OR BETTER.
- 7. WHERE EXISTING ROUTES ARE USED, OR DESIGNATED TO BE LEFT IN PLACE, THE ROUTE SHALL BE GRADED AND RESTORED (INCLUDING INSTALLATION OF PROPER DRAINAGE AND WATER BARS FOR EROSION CONTROL) TO CREATE A DRIVABLE SURFACE UPON COMPLETION
- 8. ALL EXISTING FOREST SERVICE ROADS SHALL REMAIN OPEN TO THE PUBLIC THROUGHOUT CONSTRUCTION.

CONSTRUCTION WATER

- PER SPECIFICATION 015000, THERE IS LIMITED CONSTRUCTION WATER AVAILABLE ON SITE. THE AVAILABILITY OF ON-SITE AND NEARBY CONSTRUCTION WATER WILL DEPEND ON SITE CONDITIONS AND THE OWNER DOES NOT GUARANTEE THAT ANY WILL BE AVAILABLE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION WATER, AND SHALL BE RESPONSIBLE FOR ALL ACTIVITIES REQUIRED TO ACCESS, HARVEST, TREAT, TRANSPORT, STORE, AND UTILIZE THE WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES REQUIRED TO PURCHASE WATER FROM OUTSIDE SOURCES.
- 3. IN ADDITION TO ON-SITE WATER THE PROJECT HAS IDENTIFIED SEVERAL OTHER POTENTIAL SOURCES OF WATER NEARBY. THESE SOURCES INCLUDE:
 - 1) LIMITED CONSTRUCTION WATER MAY BE AVAILABLE FROM THE MIDDLE FORK OF THE TUOLUMNE RIVER AT EVERGREEN ROAD CROSSING (AKA PEACH GROWERS PICNIC AREA). SEE SPECIFICATIONS FOR DETAILS ON THIS SITE.
- (2) ADDITIONAL CONSTRUCTION WATER MAY BE AVAILABLE FOR A FEE FROM ONE OF THE FOLLOWING SOURCES:
 - A. CITY OF SAN FRANCISCO
 - B. HETCHY HETCHY WATER AND POWER
 - C. BUCK MEADOWS/GROVELAND AREA

CONSTRUCTION SEQUENCING

- THIS PROJECT IS ENVISIONED AS SPANNING TWO CONSTRUCTION SEASONS AND CONSISTING OF TWO CONSTRUCTION PHASES. THE FIRST PHASE FOCUSES ON THE LOWER PORTION OF THE MEADOW, AND THE SECOND PHASE FOCUSES ON THE UPPER PORTION OF THE MEADOW.
- 2. IT IS ENVISIONED THAT CONSTRUCTION WILL GENERALLY PROCEED FROM THE DOWNSTREAM END TO THE UPSTREAM END. THE PROJECT ITSELF IS INTENDED TO BE THE PRIMARY MEANS OF SEDIMENT CONTROL WHERE THE LOWER GRADE CONTROL STRUCTURE (ROCK ARCH RAPIDS) FUNCTIONS AS A SEDIMENT BASIN.
- 3. THE FOLLOWING TASKS SHALL BE COMPLETED IN THE SEQUENCE LISTED PRIOR TO BEGINNING FILL OPERATIONS.
 - (1) CONSTRUCT POND
 - (2) INSTALL ALL FENCING AND GATES
 - (3) CONSTRUCT ROCK ARCH RAPIDS

SOIL AMENDMENT

- 1. FILL MATERIAL SHALL CONSIST OF A MIXTURE OF:
 - 70% MINERAL SOIL OBTAINED FROM DESIGNATED BORROW AREAS
 - 15% WOOD CHIPS OBTAINED FROM ON-SITE AND OWNER SUPPLIED TREES THAT ARE CHIPPED BY CONTRACTOR.
 - 15% BIOCHAR OBTAINED FROM OWNER
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING AND STOCKPILING TREES AND BIOCHAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHIPPING THE TREES.
- 3. THE CONTRACTOR SHALL BLEND THE FILL MATERIAL AT THE PROPORTIONS SPECIFIED AND SHALL BE RESPONSIBLE FOR ALL TRANSPORT AND PLACEMENT OF FILL MATERIALS.

LEGEND AND ABBREVIATIONS

xxx	FENCE
WETLAND	WETLAND BOUNDARY
ABANDONED	ABANDONED LINE (VARIOUS TYPES
	PROPERTY LINE
	CONSTRUCTION LIMIT/EASEMENT
	ACCESS ROUTE (PERMANENT)
	ACCESS ROUTE (TEMPORARY)
	STREAM
	WILDERNESS BOUNDARY
NPS	NATIONAL PARK SERVICE
USFS	UNITED STATES FOREST SERVICE

DEWATERING

- 1. THIS PROJECT PRIMARILY INVOLVES THE PLACEMENT OF FILL, AND THE NEED FOR EXTENSIVE DEWATERING IS GENERALLY NOT ANTICIPATED. HOWEVER, THE PROJECT AREA IS LOCATED IN WETLAND AND THERE IS THE POTENTIAL FOR THE NEED TO DEWATER, ESPECIALLY AT CERTAIN POINTS THROUGHOUT CONSTRUCTION RAINFALL EVENTS THAT RESULT IN RUNOFF IN EXCESS OF THE NORMAL BASE FLOW HAVE THE POTENTIAL TO INUNDATE THE SITE, AND THE SITE IS SUBJECT TO FLOODING AS IT IS LOCATED IN A FLOODPLAIN. IN ADDITION REGULATIONS PROHIBIT THE CAPTURE AND STORAGE OF SURFACE WATER. THE SPECIFICATIONS PROVIDE DEFINITIONS OF SURFACE WATER VS NUISANCE WATER. IN GENERAL, NUISANCE WATER IS EXPECTED TO REQUIRE MOST, IF NOT ALL, OF THE DEWATERING EFFORT. UNDER CERTAIN CIRCUMSTANCES HOWEVER (SUCH AS PROLONGED WET CONDITIONS FOR EXAMPLE) MAY REQUIRE MORE EXTENSIVE DEWATERING EFFORTS.
- 2. ONCE THE ROCK ARCH RAPIDS ARE CONSTRUCTED THERE WILL BE NO DOWN-GRADIENT OUTLET FOR THE SYSTEM. THE CONCEPT OF THE CONSTRUCTION SEQUENCING IS THAT AS FILL IS PLACED MOVING DOWNSTREAM TO UPSTREAM THE DOWN-GRADIENT FILL WILL BECOME SATURATED, AND WATER THAT DOES NOT EXIT VIA SUBSURFACE FLOW WILL FLOW OVER THE ROCK-ARCH RAPIDS. AS WORK PROGRESSES UPSTREAM THE WORK AREA WILL GENERALLY BE OUT OF THE SATURATED ZONE.
- 3. IT IS ENVISIONED THAT THROUGHOUT MOST OF THE PROCESS DEWATERING WILL ONLY BE REQUIRED IN THE IMMEDIATE FILL AREA AS NUISANCE WATER ACCUMULATES AT THE HEAD OF THE FILL. DEWATERING MAY BE ACCOMPLISHED BY UTILIZING A TRASH PUMP AND POSSIBLY A SERIES OF CHECKS THAT PROGRESS IN AN UPSTREAM DIRECTION. NUISANCE WATER MAY BE DISCHARGED DIRECTLY TO THE MEADOW SURFACE DOWN GRADIENT OF THE WORK AREA WHERE IT WILL INFILTRATE AND BEGIN TO SATURATE THE LOWER SOILS.
- 4. SHOULD A SIGNIFICANT EVENT OCCUR AFTER THE ROCK ARCH RAPIDS IS BUILT, BUT BEFORE THE MEADOW IS FILLED IN, THE UNFILLED PORTION OF THE SITE COULD FILL WITH WATER. FOLLOWING THE EVENT, ADDITIONAL DEWATERING (IN EXCESS OF THE BASE SURFACE FLOW) WOULD BE REQUIRED TO REMOVE IMPOUNDED WATER.
- SIMILARLY, THE GROUNDWATER STORAGE IN THE PHASE 1 WORK AREA IS EXPECTED TO INCREASE SIGNIFICANTLY DURING THE WINTER/SPRING BETWEEN PHASE 1 AND 2. SURFACE WATER INUNDATION OF THE MEADOW SURFACE IS ALSO EXPECTED DURING THIS TIME FRAME.
- 6. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DEWATERING AND ANY REQUIRED WATER QUALITY SAMPLING AND REPORTING PER THE PROJECTS WATER QUALITY CERTIFICATIONS (SECTION 401 PERMIT). THE CONTRACTOR SHALL DEVELOP AND SUBMIT A DEWATERING PLAN PRIOR TO ISSUANCE OF THE NOTICE TO PROCEED. SHOULD ANY DEWATERING OF SURFACE WATER BE REQUIRED, THE CONTRACTOR SHALL ABIDE BY THIS PLAN AS IT WAS APPROVED BY THE CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD.
- 7. DEWATERING MUST BE CONDUCTED IN MANNER THAT DOES NOT INDUCE SURFACE EROSION.
- 8. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CREATE CONDITIONS WHERE THE SITE WOULD FALL UNDER THE DEFINITION OF A JURISDICTIONAL DAM. THIS WILL GENERALLY BE CONTROLLED BY THE SEQUENCING AND PLACEMENT OF FILL. ADDITIONAL INFORMATION REGARDING JURISDICTIONAL DAMS CAN BE FOUND AT: https://water.ca.gov/Programs/All-Programs/Division-of-Safety-of-Dams/



WHERE PUBLIC UTILITY FIXTURES OR FACILITIES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THESE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION INVOLVING EXCAVATION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES OR RELOCATION. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND UTILITY OPERATOR LOCATION MARKINGS THAT WERE REQUESTED THROUGH GOPHER STATE ONE CALL; THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. TYPE, SIZE AND GENERAL LOCATION OF THE FACILITIES WERE REQUESTED OF THE OPERATORS AND SHOWN ON THE PLANS, AND IF NECESSARY, UPDATED WITHIN 90 DAYS OF COMPLETION OF THE FINAL PLANS. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY THE WORK.

NATIONAL PAR





GENERAL PROJECT INFORMATION ACKERSON MEADOW RESTORATION TUOLUMNE COUNTY CALIFORNIA

SCALE: AS SHOWN
PMIS NO.

DRAWN BY:
NWA

SUBSHEET G3

ltem	Item Description	Quantity	Unit
1	Mobilization/Demobiliation	1	LS
2	Remove Fence	1	LS
3	Clearing & Grubbing	1	LS
4	Establish Access Routes	1	LS
5	Culverts - 18" CMP	80	LF
6	Temporary Traffic Control	1	LS
7	Dewatering	1	LS
8	Topsoiling	1	LS
9	Tub Grinding & Chipping	1	LS
10	Borrow Excavation	105000	CY
11	Soil Amendment Handling (P)	45000	CY
12	Amended Soil Fill (P)	150000	CY
13	Directed Site Grading	40	HR
14	Aggregate Subbase	50	CY
15	Aggregate Base	500	CY
16	Void Filled Riprap	1600	TON
17	Void Fill Material	530	TON
18	Base Stone	1100	TON
19	Weir Stones	180	EA
20	Random Boulders	14	EA
21	Stream Crossing Access	1	LS
22	Erosion Matting - Stock	700	SY
23	Construct Habitat Pond	1	LS
24	Fencing	8960	LF
25	Fence Gate - Standard	3	EA
26	Fence Gates - Steel Frame	3	EA
27	Dewatering Plug	1	LS
28	Temporary Silt Fence	9800	LF
29	Temporary Fiber Rolls	600	LF
30	Temporary RECP	112000	SY
31	Wood Mulch	40	AC
32	Wetland Seeding	21.25	AC
33	Container Plantings	21.25	AC
34	Salvaged Sod	1	LS
35	Salvaged Willows	1	LS
36	SWPPP Management	1	LS
37	Site Restoration & Cleanup	1	LS
38	Range Rider	800	HR
		333	1113
RID OPTION	Water Quality Sampling	1	LS
) = PLAN QUANTI		1 '	

CLEARING & GRUBBING ESTIMATE

	Acres to Cl	ear & Grub	Topsoil Salvage (yd³)		
	PH1	PH2	PH1	PH2	
Borrow & Staging Areas	22.0	18.0	17,800	14,500	
Gully Fill Zones	6.0	8.0			
TOTAL	28.0	26.0	17,800	14,500	

ONSITE TREE CLEARING ESTIMATE

	Trees 3-11 inches DBH	Trees >11 inches DBH	Total Trees
Borrow sites	7700	9600	17300
Gully fill zones	350	350	700
TOTAL	8050	9950	18000

CONTAINER PLANTING ESTIMATE

	2023	2024		2025		Total	
	Fall	Spring	Fall	Spring	Fall	Total	
Container Plantings (18 inch spacing) Acres	0.5	0	9.3	11.7	0	21.5	
# of Plantings (19360/ac)	9,680	0	180,048	226,512	0	416,240	

WETLAND SEEDING ESTIMATE

	Phase 1	Phase 2	TOTAL
Acres	9.55	11.70	21.25
Pounds of seed	52.525	64.35	116.9

VEGETATION SALVAGE ESTIMATE

	Estimated Acres Available	Assumed Excavation & Transport Effort (yd ³)*	Assumed Loss	Assumed Acres Available for Reuse
Salvagable Sod	4.8	7,750	50%	2.4
Salvagable Willows	14.5	35000	50%	7.25

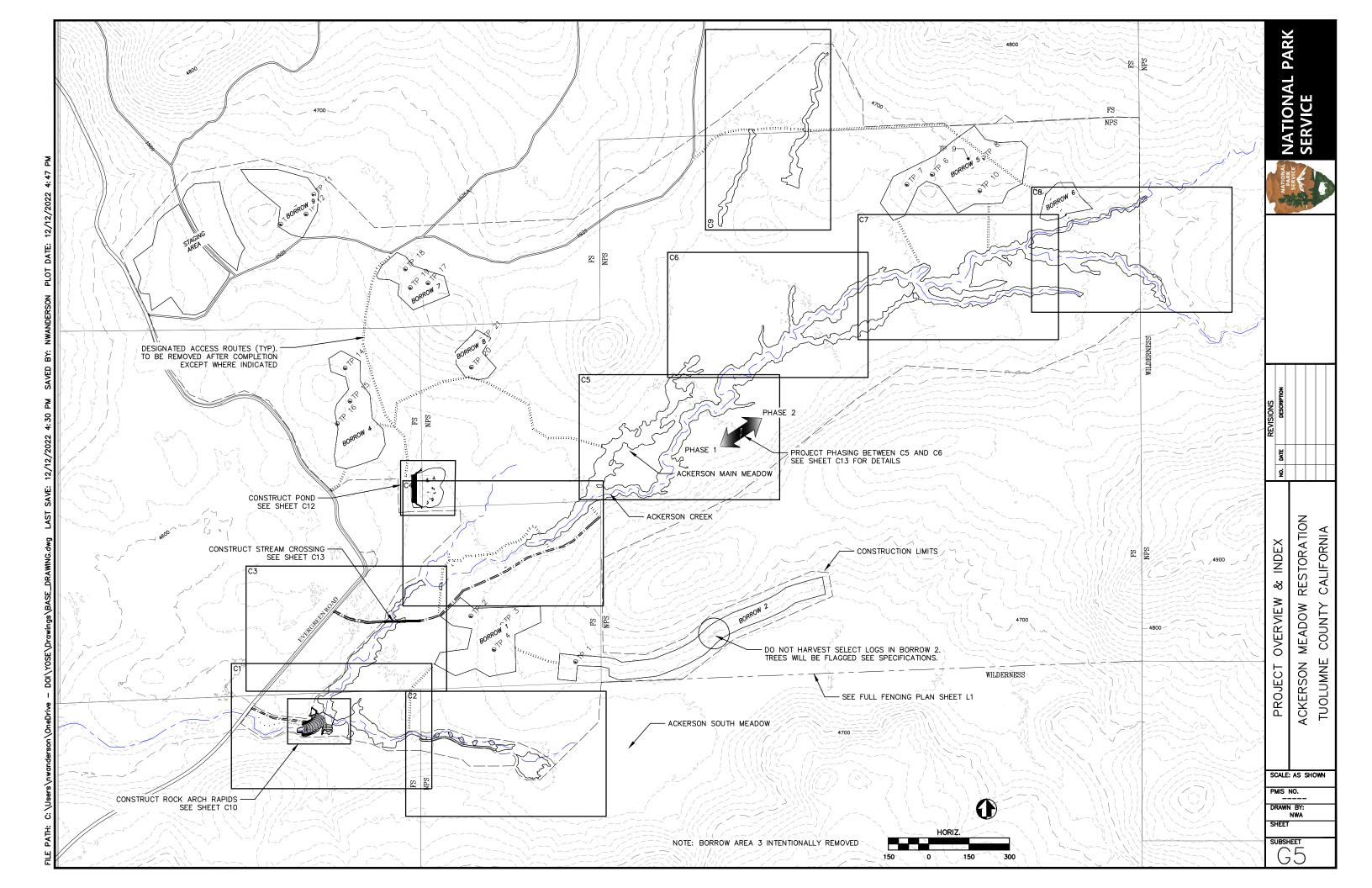


REVISIONS	DESCRIPTION			
	DATE			
	ò			
	ESTIMATE REFERENCE INFORMATION	ACKERSON MEADOW RESTORATION	TITOLIMNE COLINTY CALIFORNIA	

SCALE: AS SHOWN

PMIS NO. DRAWN BY: NWA SHEET

> SUBSHEET G4





ACKERSON MEADOW RESTORATION TUOLUMNE COUNTY CALIFORNIA TYPICAL GULLY FILL SECTION

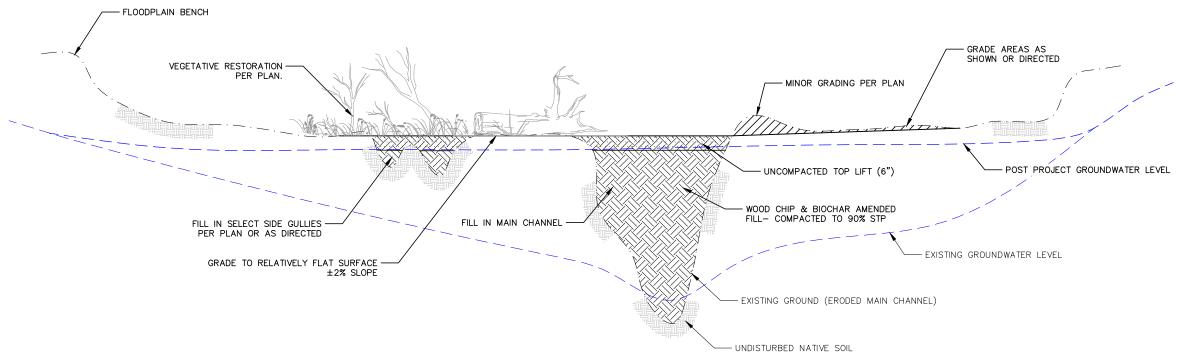
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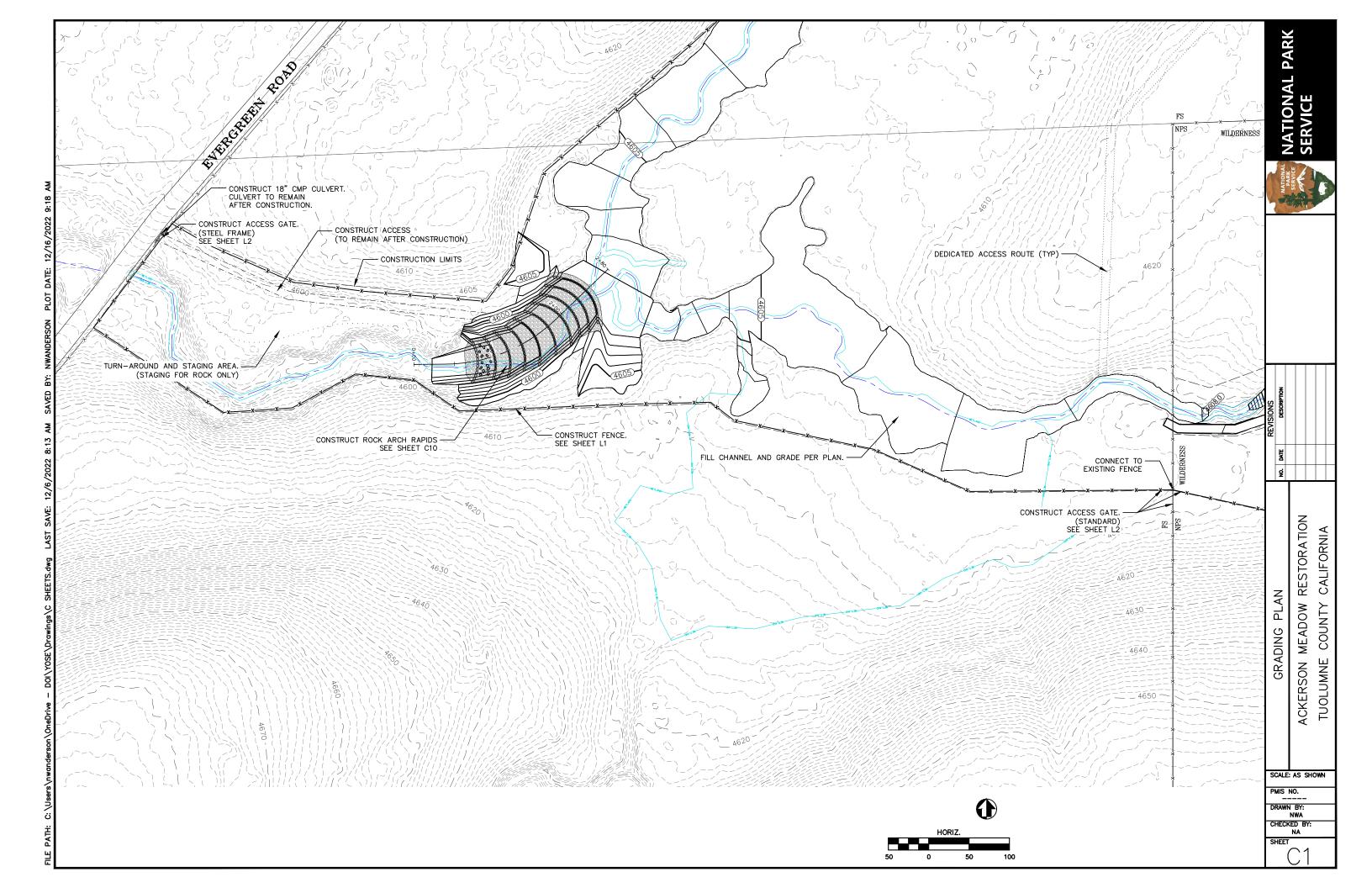
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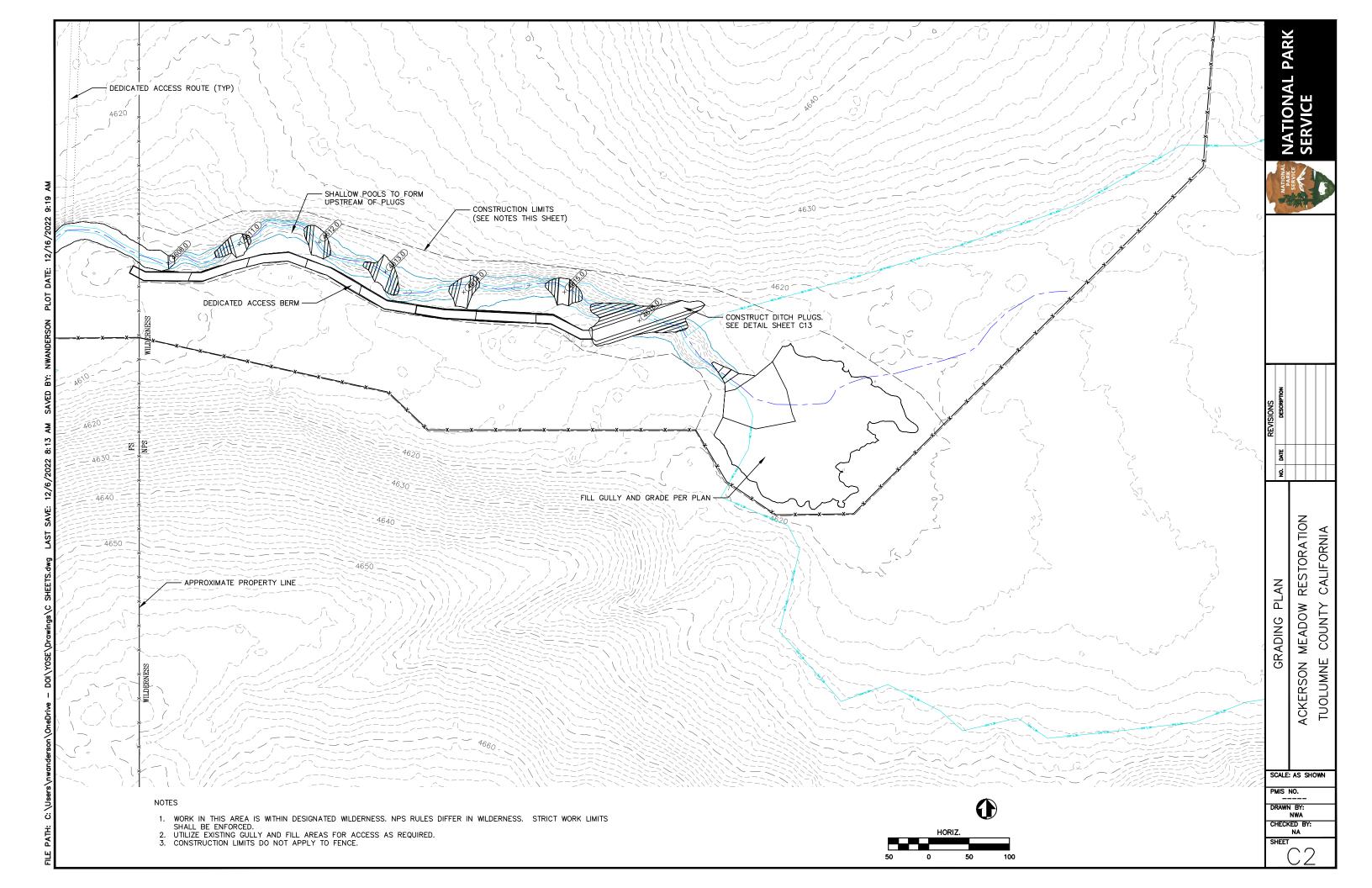
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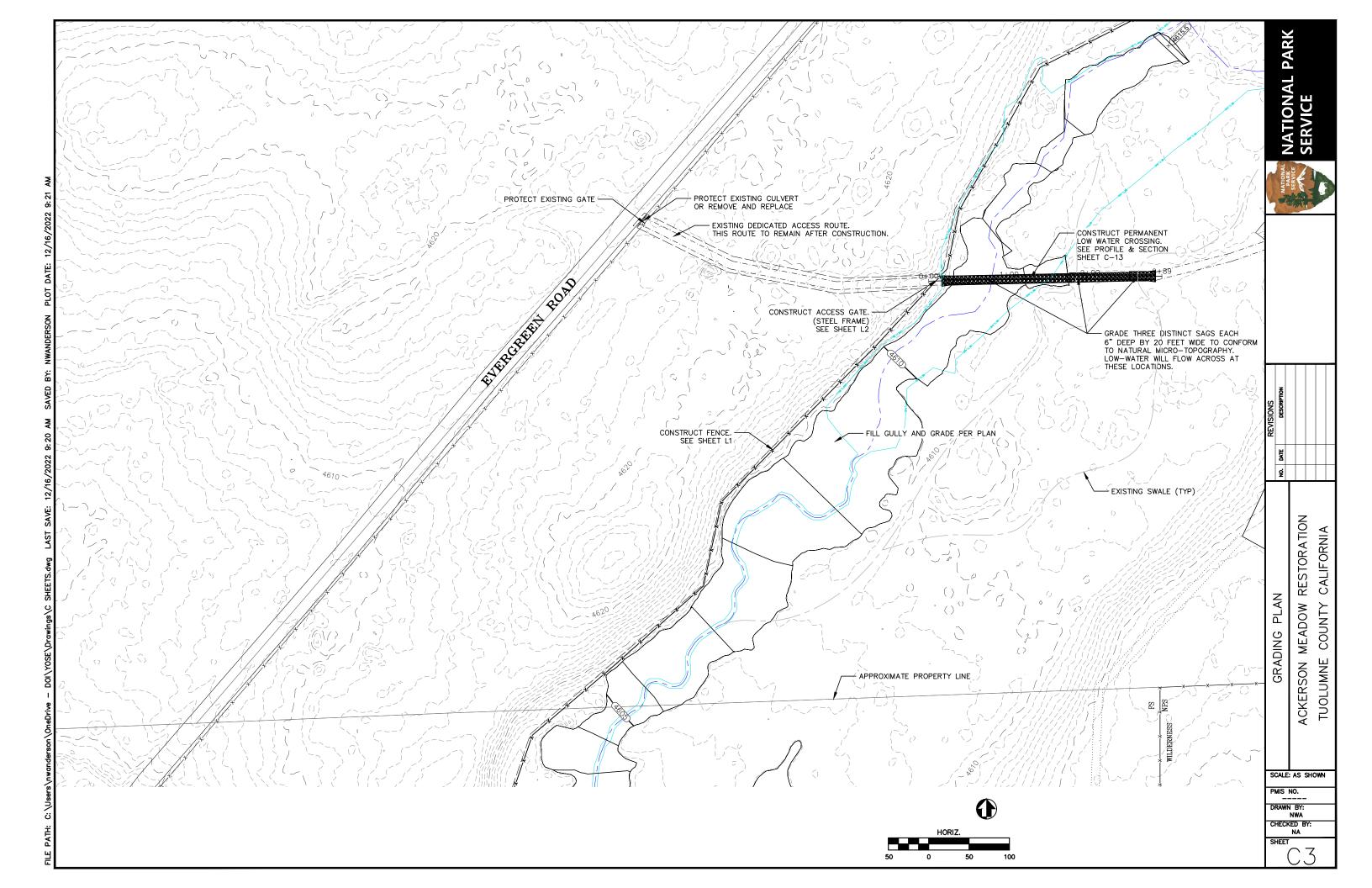
SUBSHEET G6

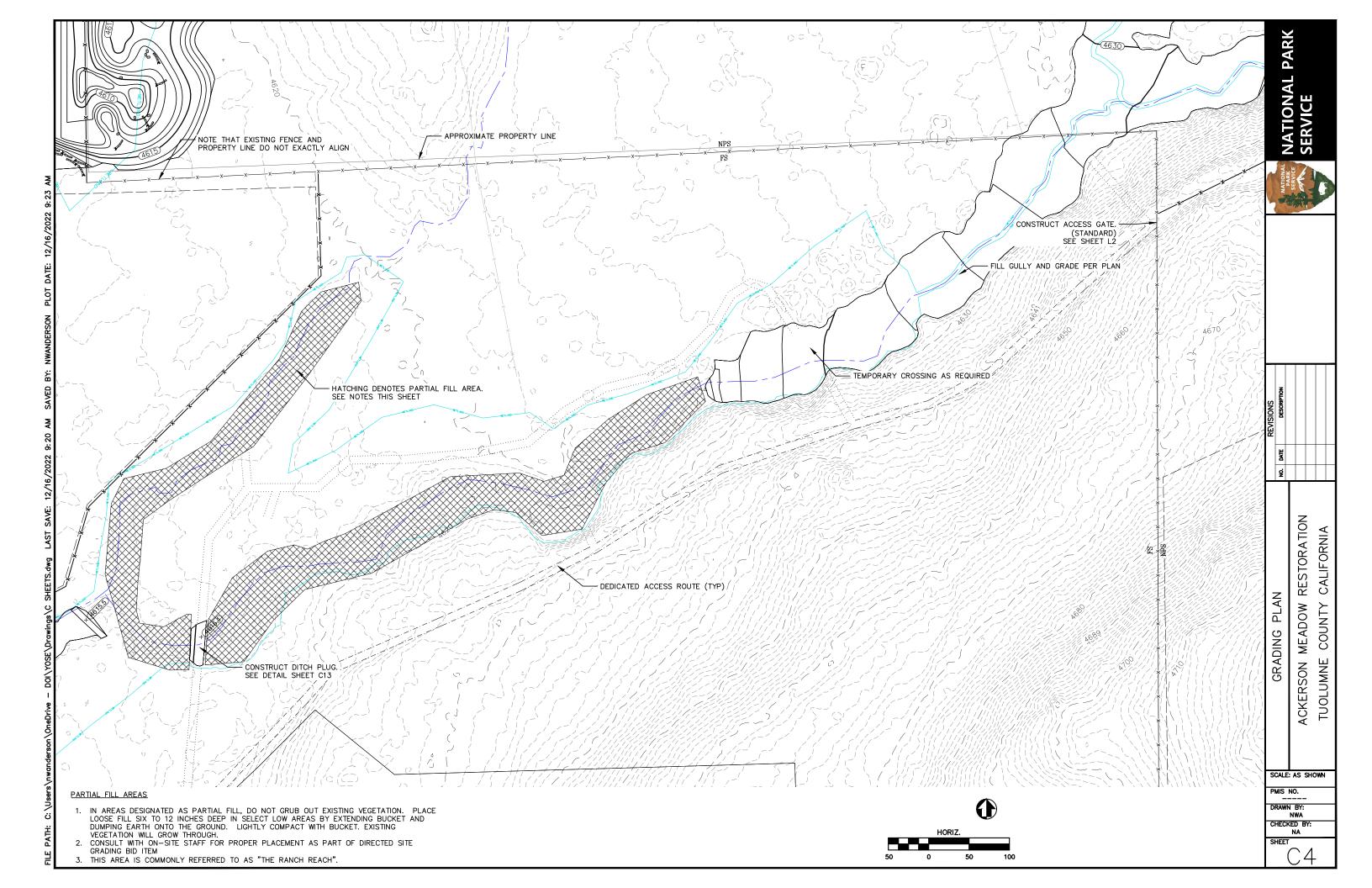


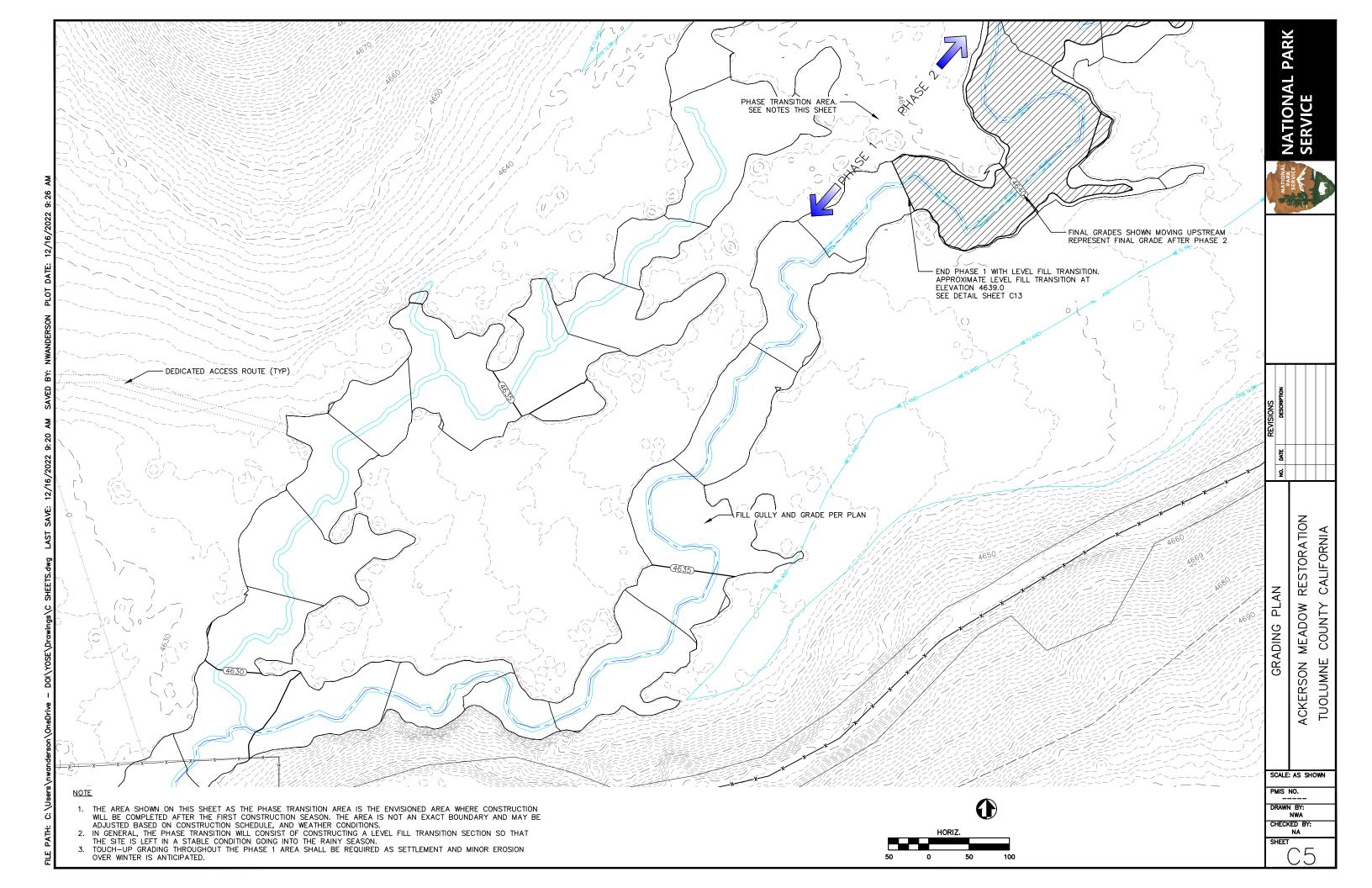
TYPICAL GULLY FILL CROSS SECTION NO SCALE

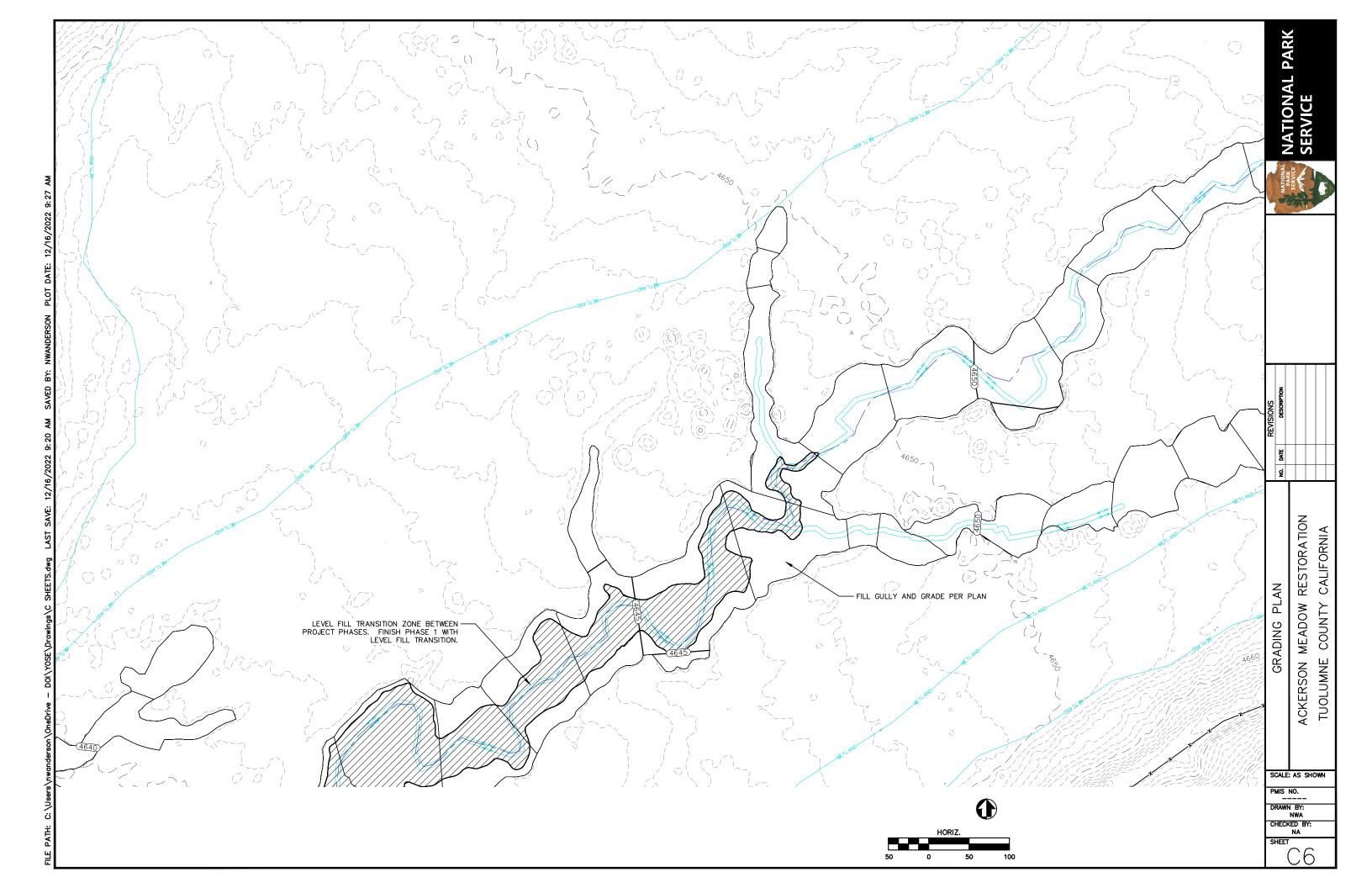


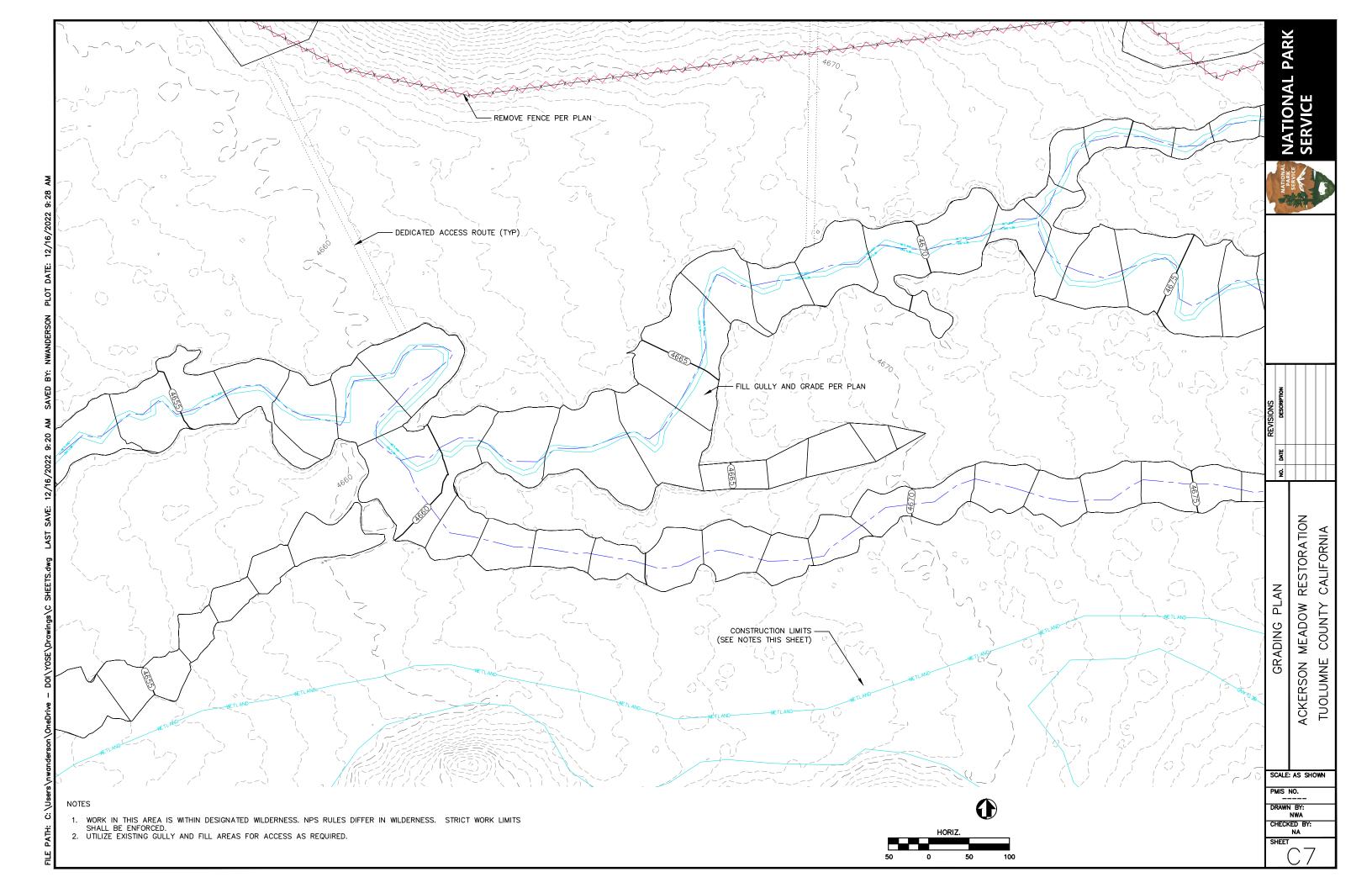


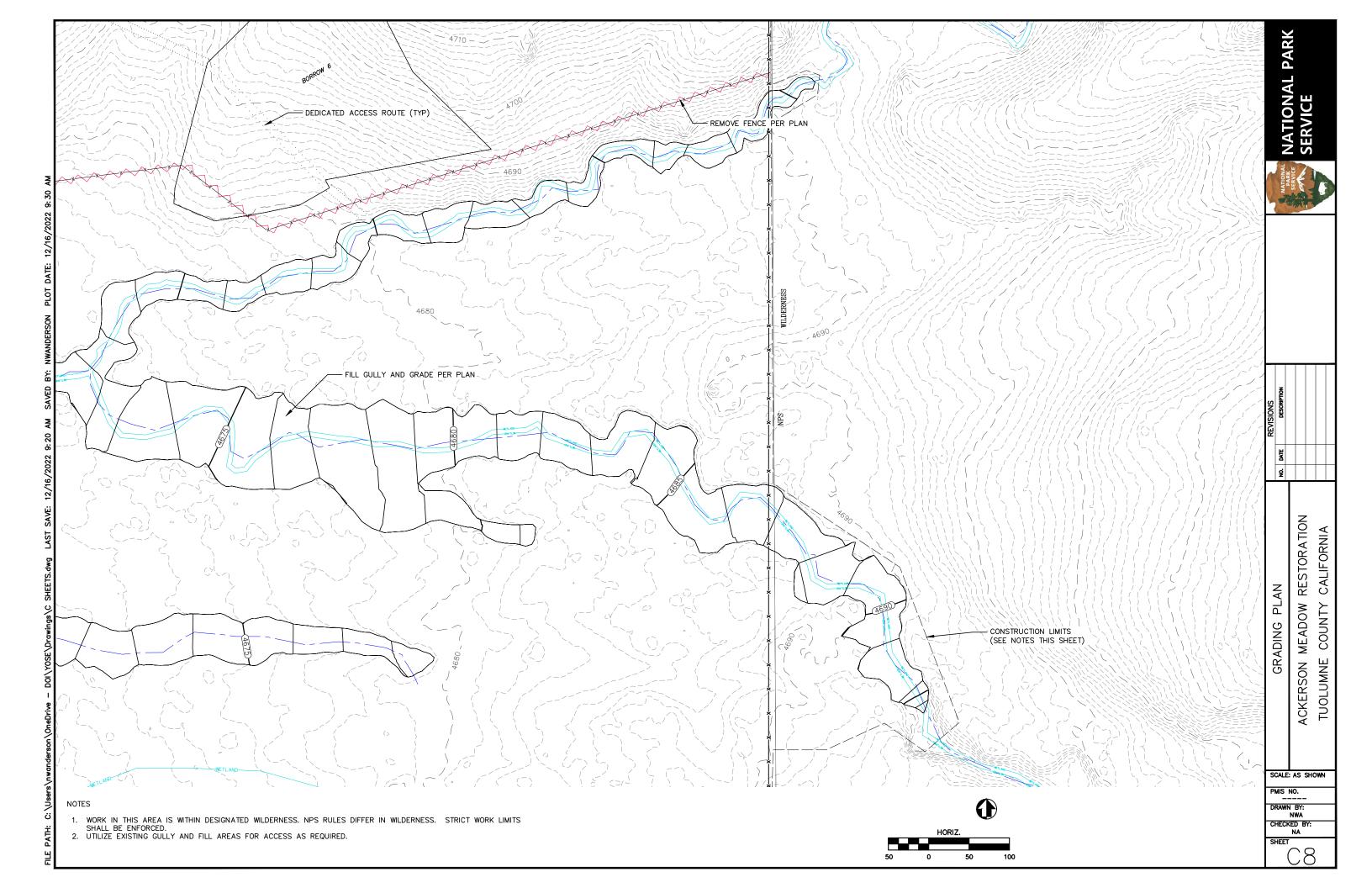


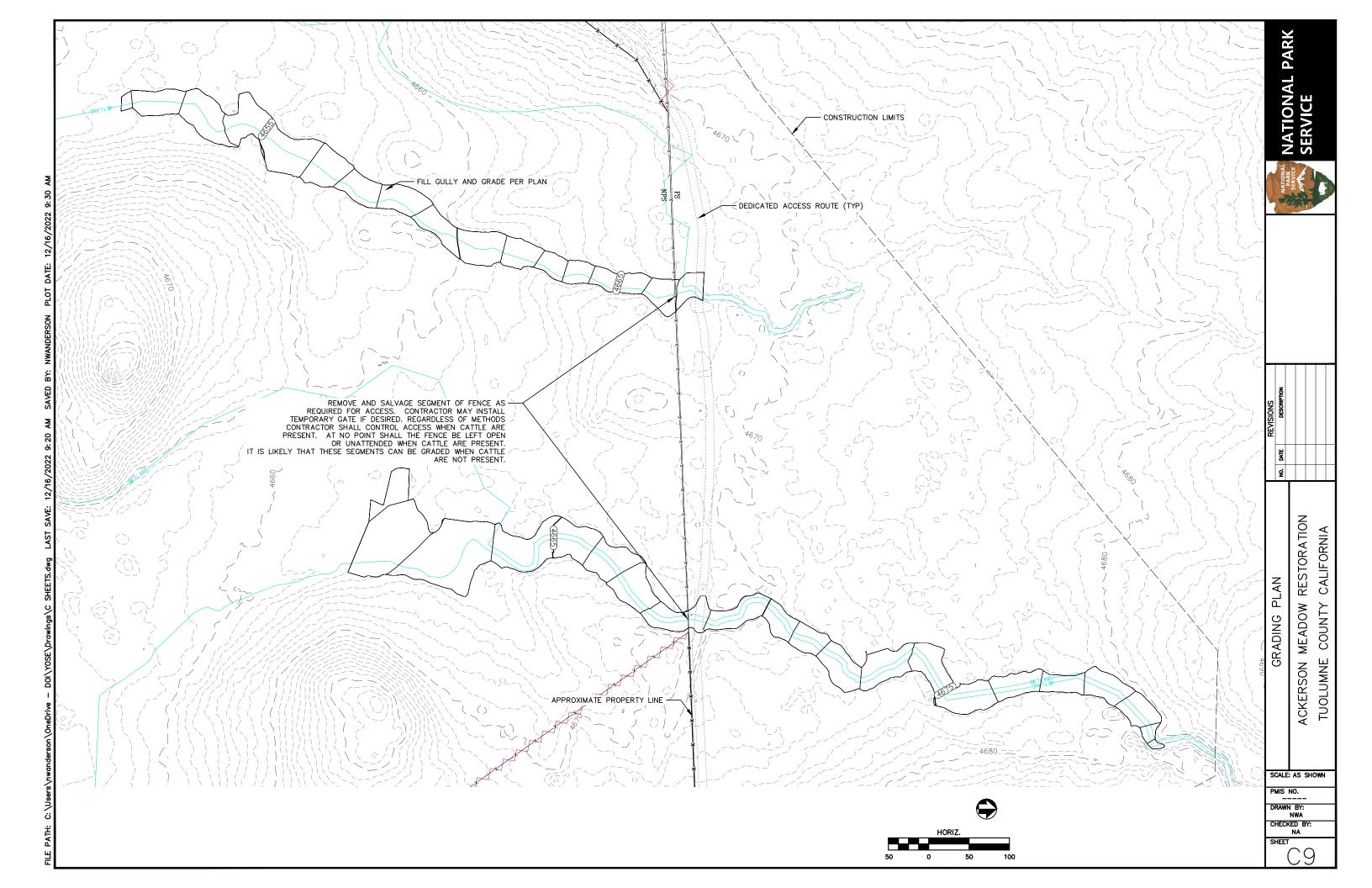


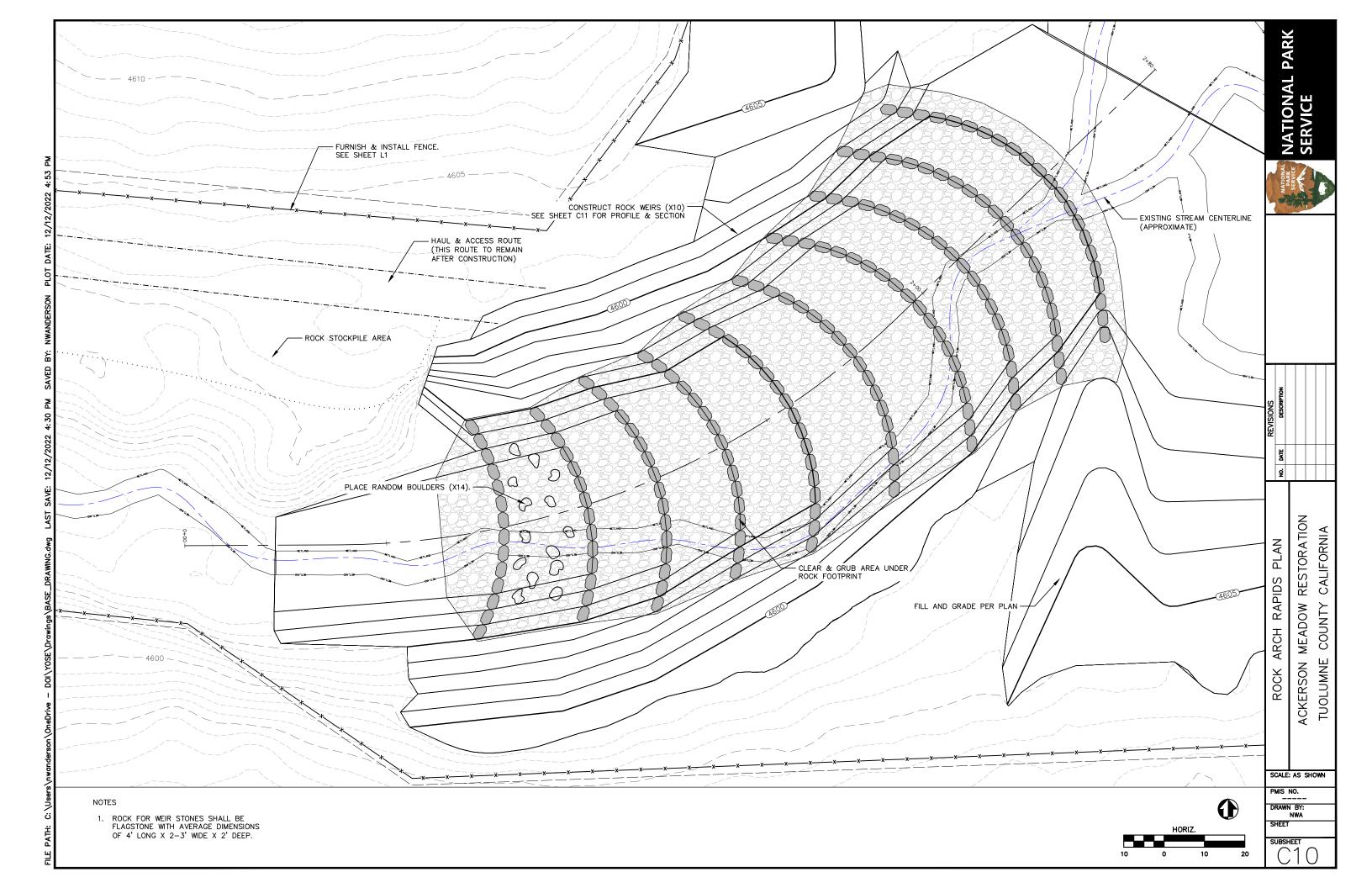


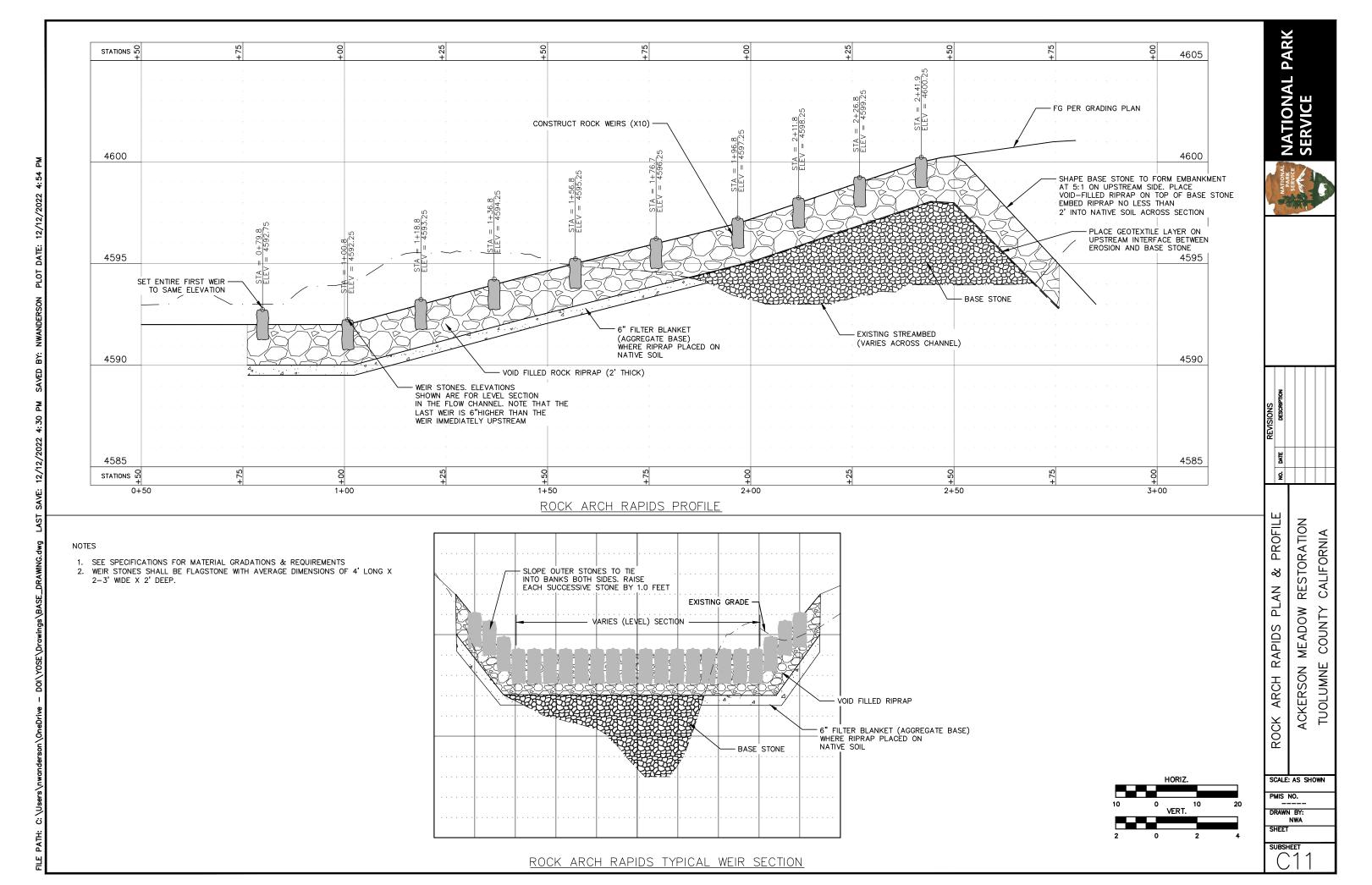




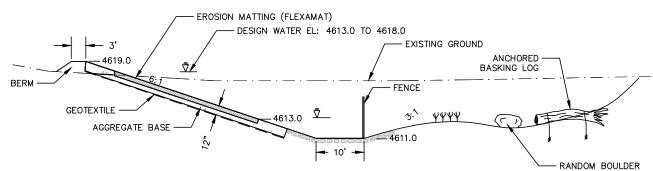








- 4. BASKING LOGS SHALL SALVAGED ON SITE FROM REMOVED TREES. BASKING LOGS SHALL BE NO LESS THAN 18" IN DIAMETER AND 20' FEET LONG.
- 5. LOGS SHALL BE ANCHORED USING SOIL ANCHORS (HELICAL OR DUCK BILLED) AND STEEL CABLE TO PREVENT LOGS FROM FLOATING AT MAXIMUM POND
- CONTRACTOR SHALL WORK WITH ON-SITE INSPECTOR TO ORIENTATE THE ROCKS AND LOGS AS DIRECTED.



TYPICAL SECTION

RESTORATION CALIFORNIA POND PLAN COUNTY ACKERSON MEADOW TUOLUMNE

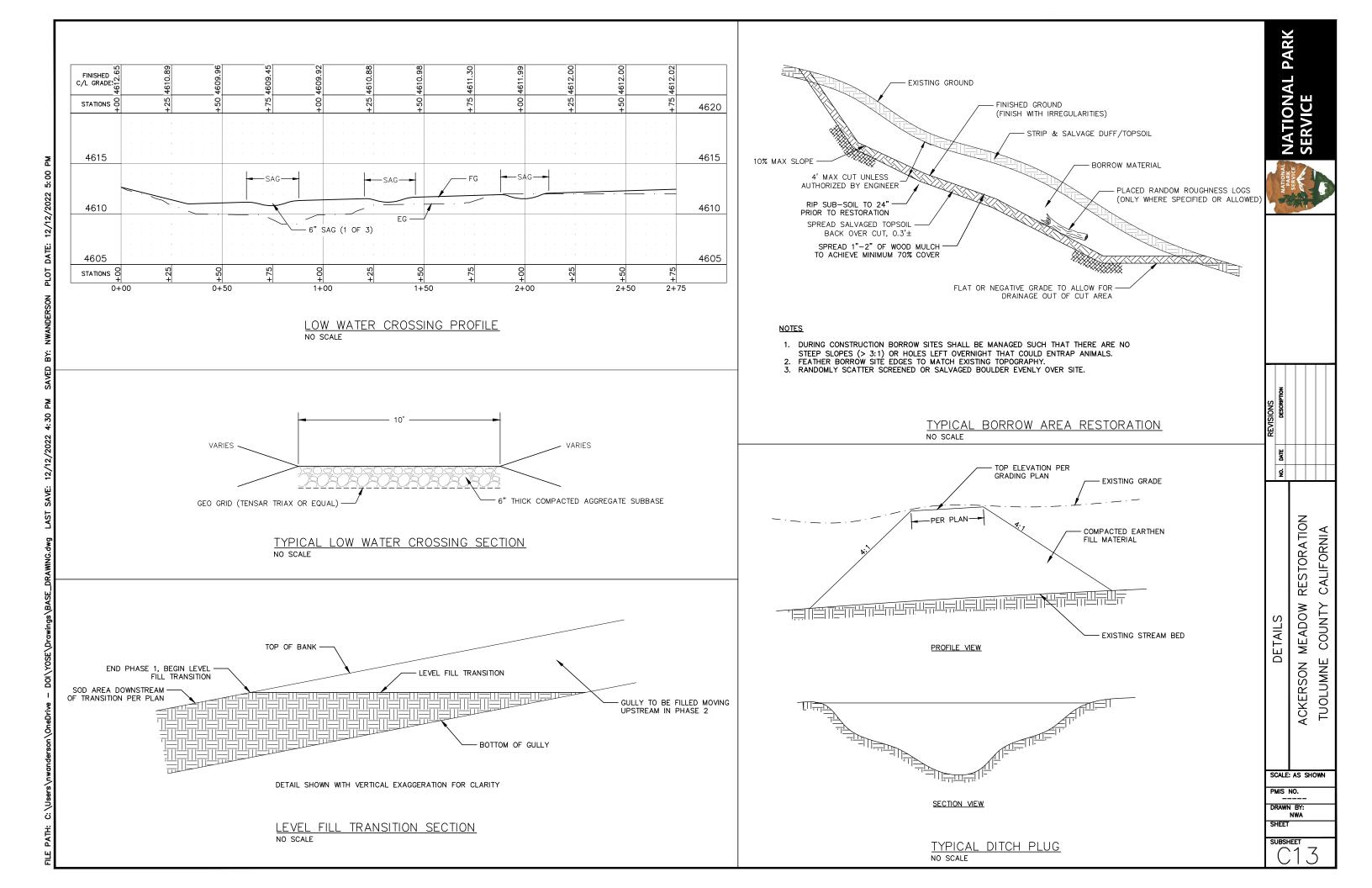
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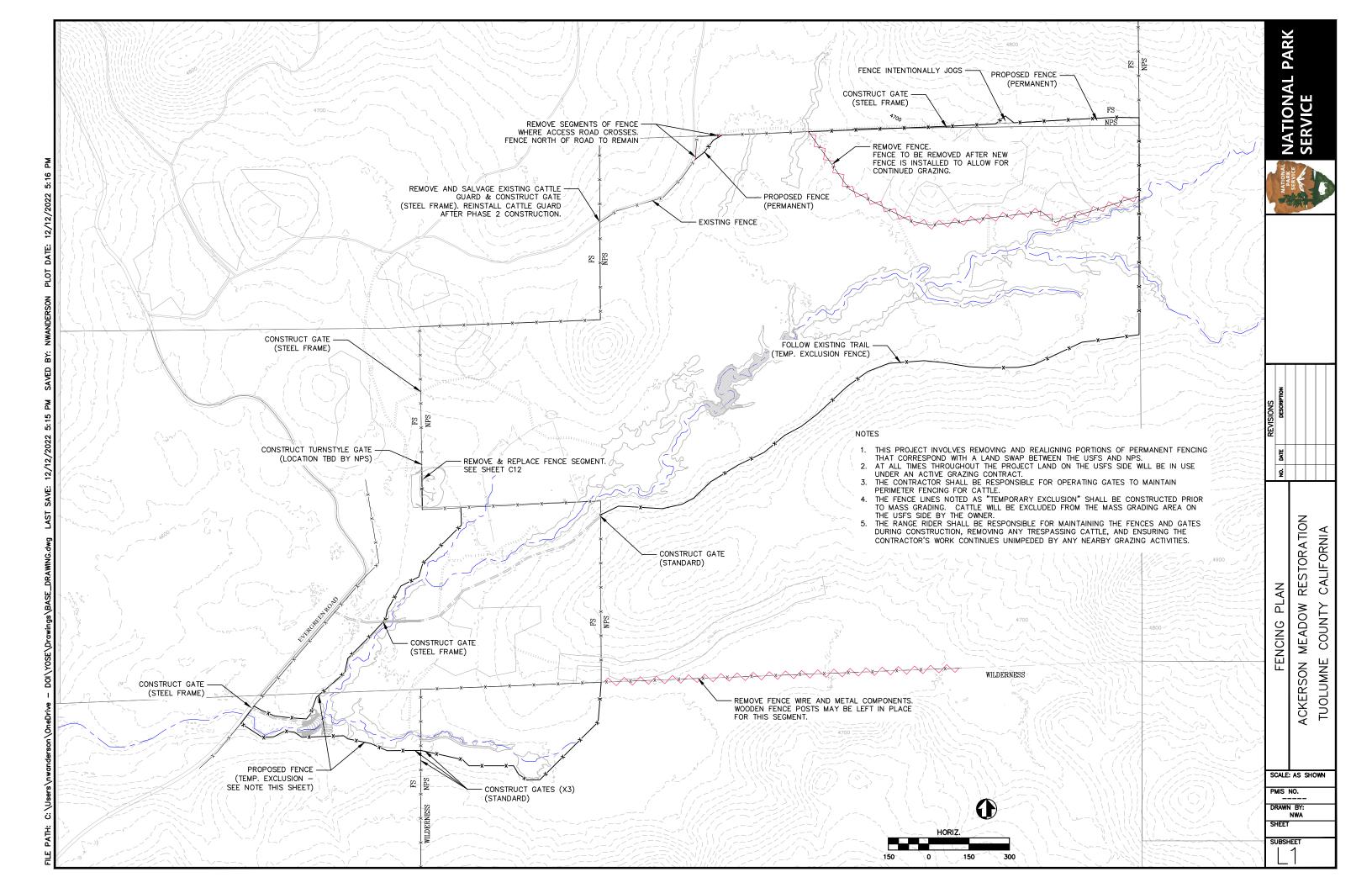
NATIONAL PARK SERVICE

SCALE: AS SHOWN PMIS NO.

DRAWN BY NWA SHEET

SUBSHEET





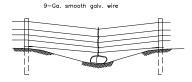
FENCING DETAILS

PMIS NO. DRAWN BY: NWA SHEET

SUBSHEET

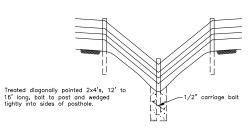
avg. spacing = 10' 5'-6" steel T-postsmooth wire barbed wire _ vinyl marker, 1every 5 ft

TYPICAL LINE PANEL

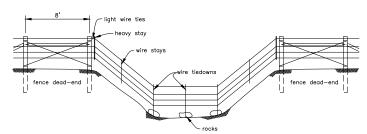


Add additional wire of the same material as bottom wire of fence and a rock deadman (min. weight 50 lbs.) when space between bottom wire and ground exceed 20 inches.

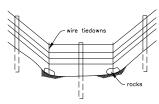
ROCK ANCHORS AT MINOR DEPRESSION



FENCE POST ANCHOR

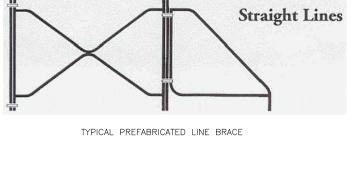


DETACHABLE WIRE PANEL W/ROCK ANCHORS FOR DEEP WASHES AND LIVE STREAMS



ROCK ANCHORS IN DRY DRAWS SQUARE ROCK CRIBS ALSO USEFUL

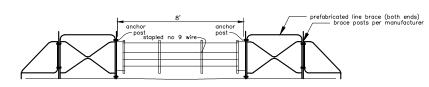
- Line posts shall have a minimum length of 6'-6" and 2'-6" embedment.



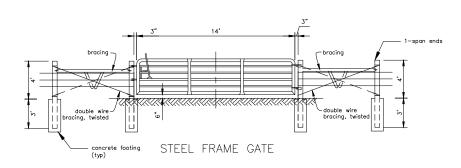
PLACE PREFAB FENCE BRACE EVERY 330', OR AS NEEDED (CORNERS, TURNS, TERRAIN CHANGE, ETC.). ADD BRACE POSTS AS REQUIRED PER MANUFACTURER.



TYPICAL CORNER BRACE

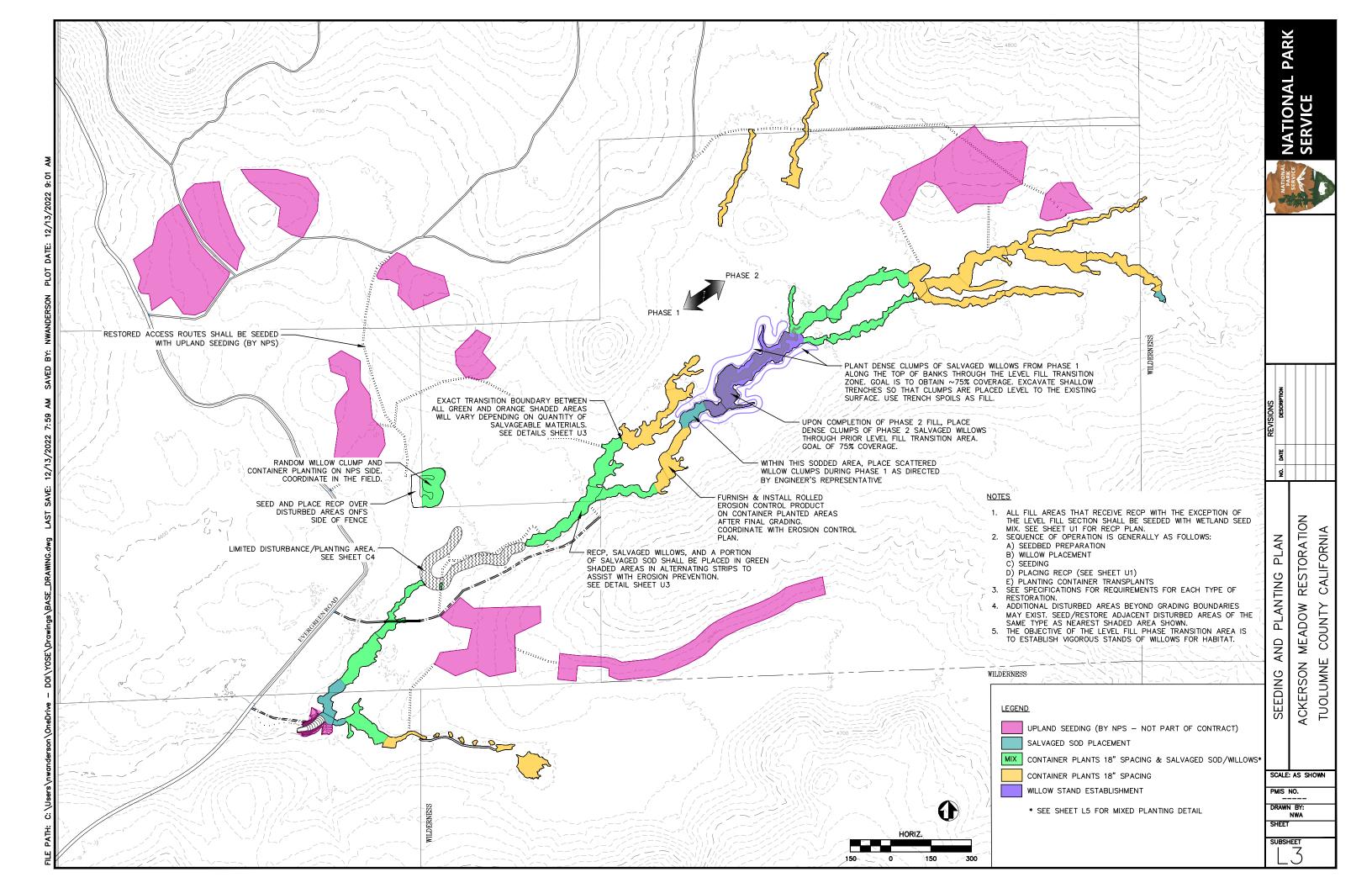


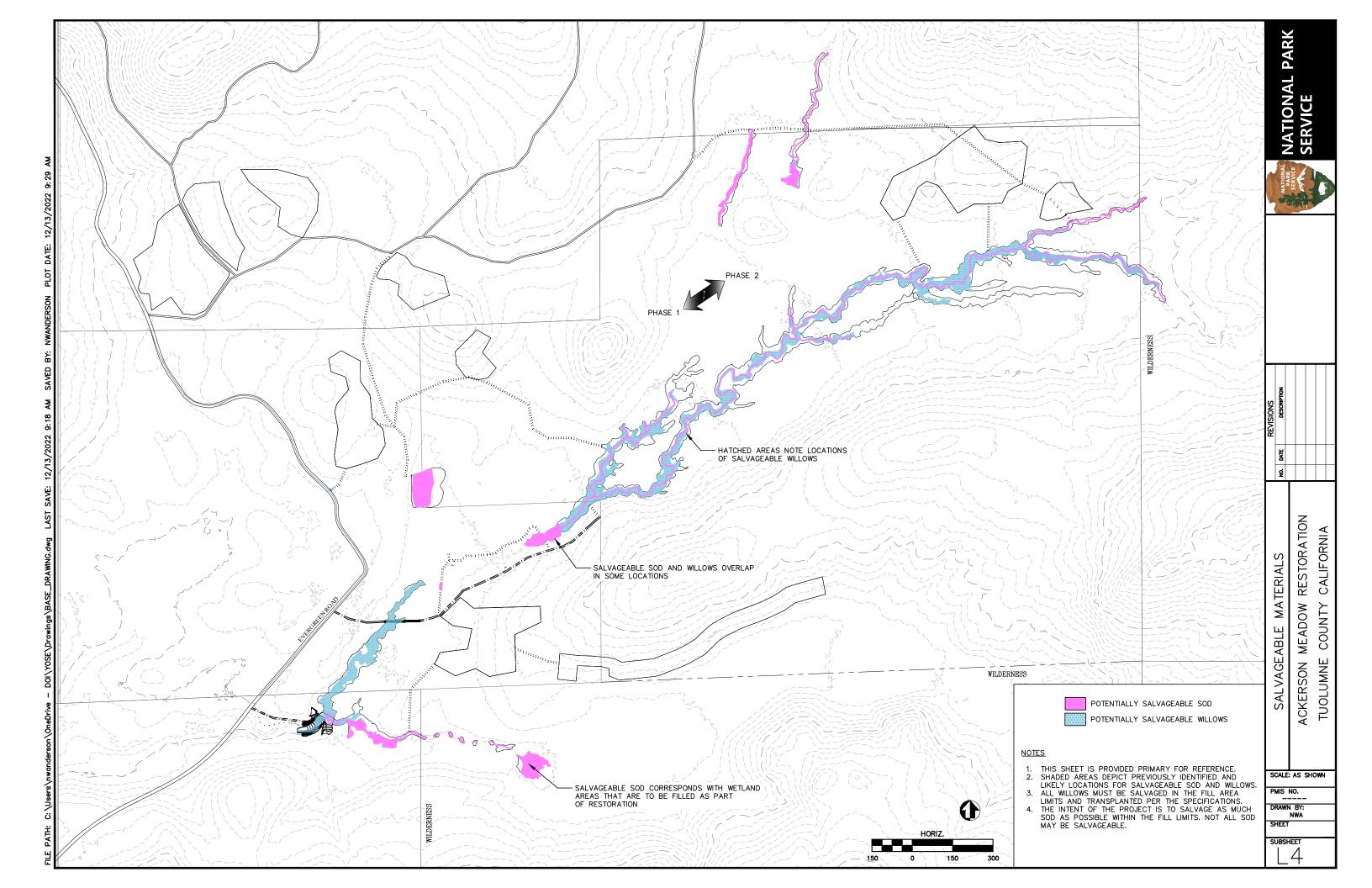
STANDARD GATE





TURNSTYLE GATE

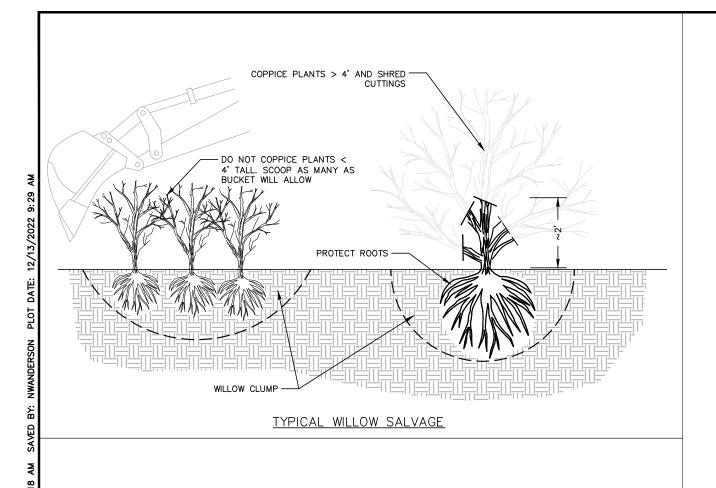


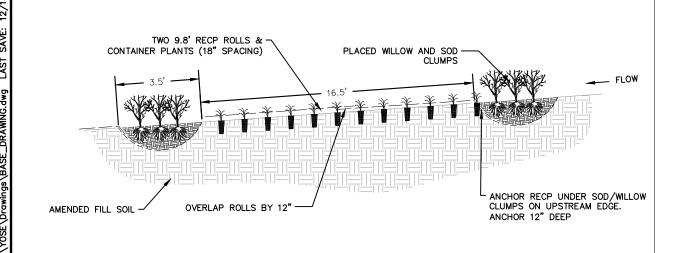


SCALE: AS SHOWN

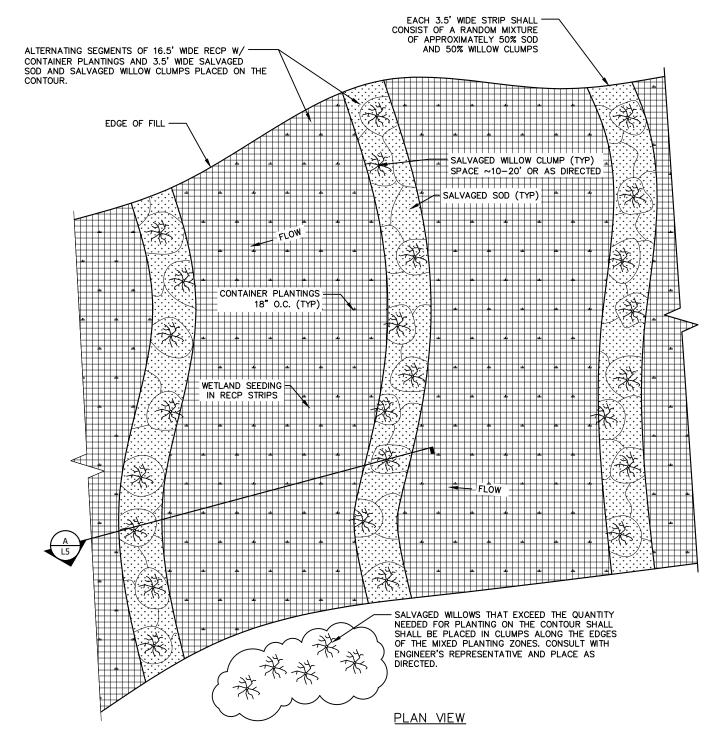
PMIS NO. DRAWN BY NWA SHEET

SUBSHEET









NOTES

- THE EXTEND OF THE MIXED PLANTING SHALL BE LIMITED BY THE AMOUNT OF ON-SITE SALVAGEABLE MATERIAL (WILLOW AND SOD). SOD WILL LIKELY BE THE LIMITING FACTOR.
 THE EXTENT OF THE MIXED PLANTING SHOWN ON SHEET L3 IS BASED ON PRESUMED QUANTITIES.
 IF THERE IS INSTITUTED SALVAGEABLE MATERIAL TO COMPLETE THE PLANTING AS SHOWN, THE
- REMAINDER OF THE AREA SHALL ONLY BE COVERED WITH RECP, AND PLANTED WITH CONTAINER
- PLANTINGS, AND SEDED.

 4. PRIORITY FOR SALVAGEABLE MATERIAL USE SHALL BE GIVEN TO AREAS DESIGNATED FOR SOD ONLY, AND FOR THE WILLOW STAND ESTABLISHMENT AREA AS SHOWN ON SHEET L3.

