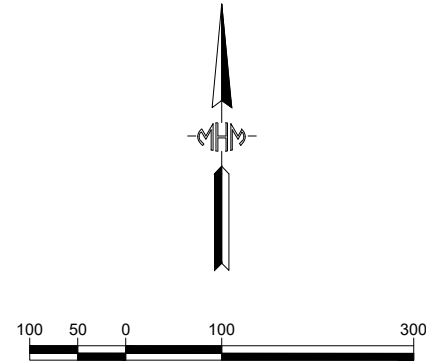
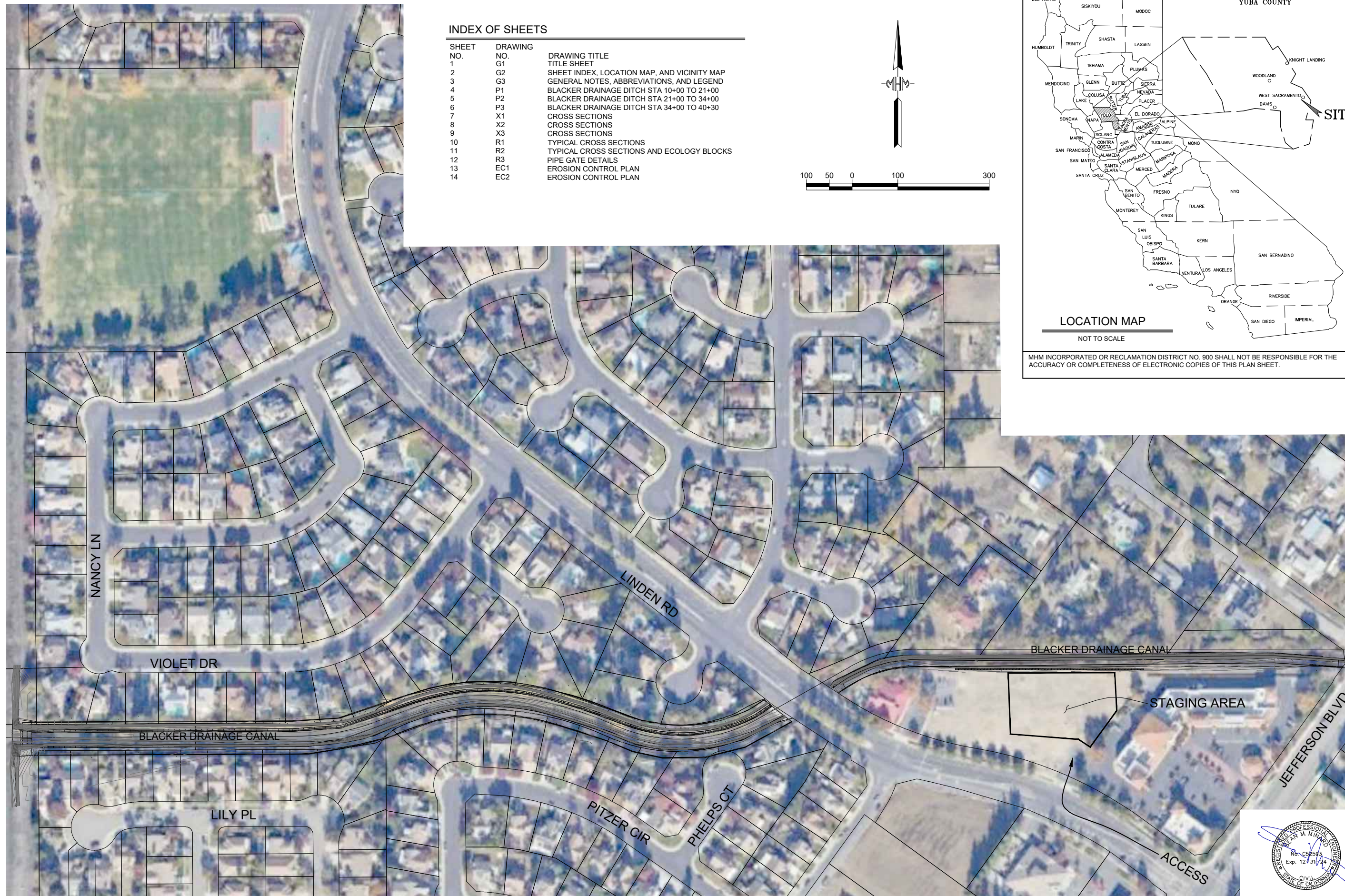


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MHM INCORPORATED OR RECLAMATION DISTRICT NO. 900 SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



Rev.	Date	Description

Designed by: M.H.M. INCORPORATED	Date: 05-23-24	Rev.:
Drawn by: KAS	Design file no: 16137	
Reviewed by: SMH	Drawing Code: G2	
Submitted by:	File name: 16137_G2	
	Plot date: 05-23-24	
	Plot scale: AS NOTED	

**SHEET INDEX, LOCATION, VICINITY MAP
BLACKER DRAINAGE CANAL**

CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
G2
Sheet 2 of 14



DISTRICT STANDARD NOTES

THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT WILL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CONSULTING ENGINEER AND RD 900 HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CONSULTING ENGINEER.

ALL MATERIALS, METHODS, AND WORKMANSHIP SHALL CONFORM WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS," DATED MAY 2015, INsofar AS THE SAME MAY APPLY AND IN ACCORDANCE WITH THE FOLLOWING SPECIAL PROVISIONS. ALL WORK IS SUBJECT TO THE APPROVAL OF THE DISTRICT ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. CERTIFICATION FOR CONFORMANCE WITH DISTRICT SPECIFICATIONS WILL BE REQUIRED FOR ALL MATERIALS USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE DISTRICT ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RD 900 FOR A PRE-CONSTRUCTION CONFERENCE 72-HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES. ALSO, CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE DISTRICT OPERATIONS MANAGER 48-HOURS PRIOR TO COMMENCING WORK AND 24-HOURS PRIOR TO RESUMPTION AFTER INTERRUPTION. REQUESTS FOR INSPECTION OF SHALL BE GIVEN 48-HOURS IN ADVANCE, AND BE PERFORMED BY THE DISTRICT OR THEIR AUTHORIZED REPRESENTATIVE. NO CONSTRUCTION WORK SHALL COMMENCE UNTIL AFTER THE PRE-CONSTRUCTION CONFERENCE IS HELD AND THE DISTRICT OR AUTHORIZED REPRESENTATIVE APPROVES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS WITHIN THE WORK AREA AND SHALL IMMEDIATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY DAMAGE TO CITY OR PRIVATE IMPROVEMENTS SHALL BE REPLACED BY THE CONTRACTOR.

THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATING WILL REVEAL THE TYPES, SIZE, LOCATION, AND DEPTH OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE ALL UNDERGROUND WORKS, HOWEVER, THE CONSULTING ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND WORKS NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN IN THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION TO BE UNKNOWN.

THE CONTRACTOR IS TO EXPOSE THE END OF EXISTING UTILITY LINES FOR THE SURVEYOR TO VERIFY LOCATION AND DEPTH OF WORKS PRIOR TO CONNECTION OF PROPOSED UTILITY. ALL COSTS FOR SUCH EXCAVATION SHALL BE INCLUDED IN PRICES FOR VARIOUS ITEMS OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE CONSULTING ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER OR DISTRICT OPERATIONS MANGER, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATION CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR, ON THE JOB SITE DURING ALL WORKING HOURS. CONTRACTOR SHALL ALSO HAVE A CONTACT PERSON FOR NON-WORKING HOURS UNTIL ACCEPTANCE OF IMPROVEMENTS BY THE CITY.

THE CONTRACTOR SHALL HAVE A CURRENT BUSINESS LICENSE AND SHALL BE HELD RESPONSIBLE TO SEE THAT ALL SUBCONTRACTORS AND SUPPLIERS HAVE CURRENT BUSINESS LICENSES. THE WORK WILL NOT BE ACCEPTED FOR THE COMPLETION UNTIL SUBMITTAL OF A COMPLETE LIST WITH LICENSE NUMBERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. FOR INFORMATION, PLEASE CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT (916-455-8818).

EARTHWORK:

- THE CONTRACTOR SHALL PROVIDE OBSERVATION AND TESTING FOR COMPACTION AND MATERIALS. A SOILS ENGINEER SHALL CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION AND MATERIALS HAVE BEEN ACCOMPLISHED.
- ALL COMPACTION TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE PAID FOR BY THE CONTRACTOR. ALL TESTING SHALL BE CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT.
- ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS SPECIFIED OTHERWISE BY THE OWNER.
- SUFFICIENT EQUIPMENT SHALL BE AVAILABLE TO PROVIDE MUD AND DUST CONTROL AT ALL TIMES DURING CONSTRUCTION DURING NON-WORKING HOURS A WATER TRUCK SHALL BE USED, WHEN REQUIRED, TO MAINTAIN ADEQUATE DUST CONTROL. AREAS SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF CONTRACT.
- ROUTES TO OR FROM THE PROJECT, IF REQUIRED, FOR HEAVY EQUIPMENT AND MATERIALS SHALL BE APPROVED BY THE COUNTY. AS IT RELATES TO EXISTING COUNTY ROADS, THE COUNTY REQUIRES A CONSTRUCTION ROUTE PLAN FOR CONSTRUCTION TRAFFIC BE SUBMITTED TO THE COUNTY PRIOR TO CONSTRUCTION APPROVAL BY THE DISTRICT.
- EROSION CONTROL, HYDROSEEDING SHALL BE APPLIED TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER THE COMPLETION OF IMPROVEMENTS PRIOR TO OCTOBER 15TH
- WINTERIZATION NOTE* THE FOLLOWING ARE REQUIRED IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 15TH:
 - EROSION PROTECTION ON SLOPES 10:1 OR STEEPER SWALES WITH SLOPES 2% OR GREATER
 - NO SEDIMENT SHALL LEAVE THE PROJECT AREA
 - GRADE GUTTER SAG POINTS TO DRAIN, PROVIDE FOR DRAINAGE OF IMPROVEMENTS
 - PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES PER
 - SEAL OF ALL SANITARY SEWER CONNECTION TO EXISTING SYSTEMS.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN WINTERIZATION WORKS AT ALL TIMES OR UNTIL IMPROVEMENTS ARE FINAL.
- WHEN COMPACTION CAN NOT BE MEASURED, A FULL TIME GEOTECH INSPECTOR SHALL REPRESENT TO OBSERVE PERFORMANCE OF BACKFILLS. THE DISTRICT RESERVES THE RIGHT TO REJECT ANY BACKFILL WHERE INSPECTOR IS NOT PRESENT.

UTILITIES:

SEWER: FOR TELEPHONE NUMBERS
WATER: OF UTILITY AGENCIES,
STORM DRAIN: SEE COVER SHEET
STREETS:
ELECTRIC:
*GAS:

- ALL ABOVE UTILITIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS PROJECT WILL BE REQUIRED TO NOTIFY (U.S.A.) 48-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600. EXCAVATION FOR THE PURPOSE OF THE REQUIREMENT, IS DEFINED AS BEING 18" OR MORE IN DEPTH BELOW THE EXISTING SURFACE.
- FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF SAFETY (2422 ARDEN WAY, SUITE 55, SACRAMENTO, CA 916-920-6123) PRIOR TO BEGINNING OF CONSTRUCTION SITE AT ALL TIMES.

CONSTRUCTION STAKING:

- THE SURVEYOR FOR THIS PROJECT SHALL PROVIDE ONE (1) SET OF CONSTRUCTION STAKES FOR LINE AND GRADE UNLESS OTHERWISE REQUESTED BY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT OF A DISAGREEMENT OR DESTROYED STAKE OR MONUMENT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SURVEYOR PRIOR TO ANY FURTHER CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE SURVEYOR 48-HOURS WRITTEN NOTICE PRIOR TO EACH PHASE OF CONSTRUCTION STAKING OR IN THE EVENT OF NEEDED RESTAKING.
- PRIOR TO REQUESTING ACCEPTANCE OF IMPROVEMENTS, THE SURVEYOR FOR THIS PROJECT SHALL SET SURVEY MONUMENTS AS SPECIFIED IN THE IMPROVEMENT STANDARDS.
- (1) THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS.
(2) NO FINAL ACCEPTANCE OF THE CONSTRUCTION SHALL BE ISSUED UNTIL THE SURVEY MONUMENTS ARE IN PLACE AND THE CENTERLINE MONUMENT TIES ARE FURNISHED TO THE CITY ENGINEER'S OFFICE.
- PRIOR TO COMMENCING WORK, DISTRICT INSPECTOR SHALL RECEIVE TWO COPIES OF CUT SHEETS.

EROSION CONTROL AND WINTERIZATION:

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT DISCHARGE OF SEDIMENT FROM THE SITE TO ANY WATERCOURSE, DRAINAGE SYSTEM, OR ONTO ADJACENT PROPERTIES AND TO PREVENT DAMAGE BY EROSION OR DEPOSITION OF SEDIMENT WHICH MAY RESULT FROM THE WORK.
- THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL, STATE AND LOCAL GOVERNMENT LAWS AND REGULATIONS RELATING TO THE DISCHARGE OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHETHER OR NOT THE REQUIRED WORKS OR METHODS ARE STATED ON THESE PLANS.
- THE CONTRACTOR SHALL CONDUCT INSPECTIONS OF THE SITE BEFORE AND AFTER STORM EVENTS AND ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS TO IDENTIFY BMP EFFECTIVENESS AND IMPLEMENT REPAIRS OR DESIGN CHANGES AS FEASIBLE DEPENDING UPON FIELD CONDITIONS.
- THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. A COPY SHALL BE PROVIDED TO THE DISTRICT PRIOR TO START OF CONSTRUCTION.

GENERAL NOTES

- CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBTAINED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS AN UNUSUAL AMOUNT OF STONE, BONE, OR SHELL ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE CONTRACTOR SHALL NOTIFY THE OWNER. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY REQUIRE THE ARCHEOLOGIST.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/MATERIALS LIST AND CONSTRUCTION METHODS TO DISTRICT FOR REVIEW IN ADVANCE OF CONSTRUCTION. THESE SHOP DRAWINGS SHALL INCLUDE ALL APPURTENANCES, HORIZONTAL AND VERTICAL ALIGNMENT CHANGES AND PIPE ENDS.
- THE COUNTY REQUIRES ENCROACHMENT PERMITS FOR ALL CONSTRUCTION DONE IN EXISTING RIGHT OF WAY INCLUDING, BUT NOT LIMITED TO, THE CONSTRUCTION OF WATER, SEWER, STORM DRAIN, STREET IMPROVEMENTS, AND DRY UTILITY CROSSINGS. THE ENCROACHMENT PERMITS SHALL BE ON FILE WITH THE COUNTY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE OF ALL IMPROVEMENTS AND FILLS THAT ARE CONSTRUCTED AND COPIES SHALL BE DELIVERED TO RD 900 AND THE DESIGN ENGINEER PRIOR TO THE ACCEPTANCE OF THE WORK.
- PRIOR TO START OF WORK THE CONTRACTOR SHALL HAVE APPROVED PLANS IN HIS POSSESSION AND SHALL GIVE THE DISTRICT 48 HOURS NOTICE. THE CONTRACTOR SHALL DESIGNATE A PERSON, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR, ON THE JOB SITE DURING ALL WORKING HOURS.
- THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS TO THE LINES AND GRADE SHOWN ON THESE PLANS. ANY DEVIATION FROM THE PLANS SHALL REQUIRE THE APPROVAL OF THE DESIGN ENGINEER.
- ALL GRADING SHALL CONFORM TO YOLO COUNTY STANDARDS AND THE REQUIREMENTS OF GRADING PERMIT PWGR 16-___.

LEGEND

	EXISTING	PROPOSED
SURVEY MONUMENT/BENCH MARK		
UTILITY POLE		
STREET LIGHT		
GUY WIRE AND ANCHOR		
CONSTRUCTION CENTERLINE		25
TOP OF CANAL EMBANKMENT		
TOE OF CANAL		
STORM DRAIN	12"SD	12"SD
SANITARY SEWER	12"SS	12"SS
WATER MAIN	8"W	8"W
SEWER FORCE MAIN	20"FM	20"FM
GAS MAIN	UG	
UNDERGROUND TELEPHONE	UT	
OVERHEAD ELECTRIC	OE	
FENCE	X-X-X-X-X	X-X-X-X-X
SPOT ELEVATION	X (E) 25.0	X 25.0
CONTOUR LINE	25	
ASSESSOR'S PARCEL NO.	25-025-254	
PROPERTY LINE		
TREE		
BUILDING		
TEST PIT LOCATION		
IRRIGATION CONTROLLER		
TRANSMISSION LINE TOWER		
DITCH FLOWLINE		
WATER SERVICE		
SEWER SERVICE		
POSTAL CBU		
FIRE HYDRANT		
WATER MAIN BLOW-OFF		
STORM DRAIN MANHOLE		
DRAINAGE INLET		
HANDICAP RAMP		
SANITARY SEWER MANHOLE		
CURB TRANSITION		
TRAFFIC CALMING DEVICE		
MASONRY BLOCK WALL		

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
ADT	AVERAGE DAILY TRAFFIC COUNT
APP	ASSESSOR'S PARCEL NO.
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATT	AT&T COMMUNICATION
BC	BEGINNING OF CURVE
BCR	BEGIN CURB RETURN
BM	BENCHMARK
BW	BARBED WIRE FENCE
CLTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION CG CURB AND GUTTER
	CAST-IN-PLACE
CIP	CONSTRUCTION JOINT
CJ	CENTERLINE
CL	CITY ENGINEER
CO	CORRUGATED METAL PIPE
CMB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CPFB	CUBIC YARD
CY	DEPTH IN FEET
D	DRAINAGE INLET
DI	DIAMETER DIA
DIA	DUCTILE IRON PIPE
DIP	DRAWING
DWG	DEPARTMENT OF WATER RESOURCES
DWR	EXISTING
(E)	END OF CURVE
EC	END CURB RETURN
ECR	EACH FACE
EF	ELEVATION
EL	ELEVATION EDGE OF PAVEMENT
EP	EDGE OF TRAVELED WAY
ETW	EDGE OF SHOULDER
ES	EACH WAY
EW	FLARED END SECTION
FES	FINISH GRADE
FG	FLOWLINE
FL	FORCE MAIN
FM	GAS
G	GRADE BREAK
GB	HIGH DENSITY POLYETHYLENE
HDPE	HYDRAULIC GRADE LINE
HGL	HINGE POINT
HP	INSIDE DIAMETER
ID	INCH
IN	INVERT INV
INV	IRRIGATION
IRR	LENGTH OF CURVE
L	LINEAR FEET
LF	LIP OF CURB AND GUTTER
LIP	MEASURED
(M)	MAINTENANCE HOLE
MH	NOT IN CONTRACT
NIC	ON CENTER
OC	OUTSIDE DIAMETER
OD	ORIGINAL GROUND
OG	OVERHEAD
OH	PROFILE GRADE
PC	POINT OF REVERSE CURVE
PRC	PORTLAND CEMENT CONCRETE
PCC	PACIFIC GAS & ELECTRIC
PG&E	PROPERTY LINE
PL	POWER POLE
PP	PUBLIC UTILITY EASEMENT
PUE	POLY VINYL CHLORIDE
PVC	RADIUS
R	REINFORCED CONCRETE PIPE RCP
RCP	REINFORCED CONCRETE BOX
RCB	RECLAMATION DISTRICT NO. 784
RD 784	RIGHT-OF-WAY RW
RW	SLOPE PROFILE S
S	STORM DRAIN
SD	STORM DRAIN MAINTENANCE HOLE
SD MH	STORM DRAIN JUNCTION BOX
SD JB	SUBGRADE SG
SG	SHEET
SHT	SACRAMENTO MUNICIPAL UTILITY DISTRICT
SMUD	SANITARY SEWER
SS	SANITARY SEWER MAINTENANCE HOLE
SSMH	STATION
STA	STORM WATER POLLUTION PREVENTION PLAN
SWPPP	PIPE WALL THICKNESS
T	TOP BACK OF DRAINAGE INLET
TBDI	TOP BACK OF CURB
TBC	TEMPORARY CONSTRUCTION EASEMENT TURNOUT
TCE	TOP OF BANK
TOB	TYPICAL
TOP	UNLESS OTHERWISE NOTED
TYP	UNION PACIFIC RAILROAD UPRR
UON	VITRIFIED CLAY PIPE
UPRR	WATER MAIN
VCP	WATER MAIN BLOW OFF
WM	WATER SURFACE
WM BO	WASTE DISCHARGE IDENTIFICATION NUMBER
WM BOW	WATER MAIN
WSE	WELDED WIRE FABRIC
WSD	
WM	
WWF	

ALSO REFER TO ABBREVIATIONS IN STATE STANDARDS PLAN - DRAWING A10A



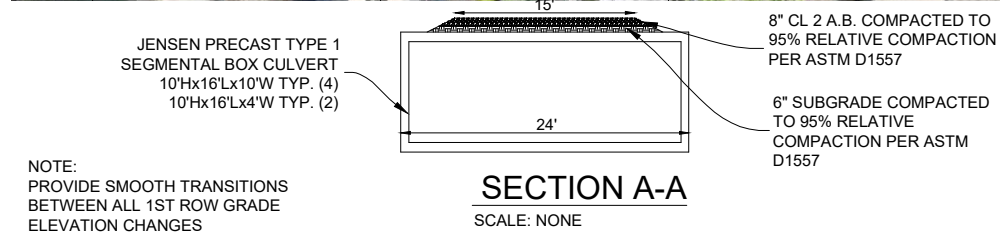
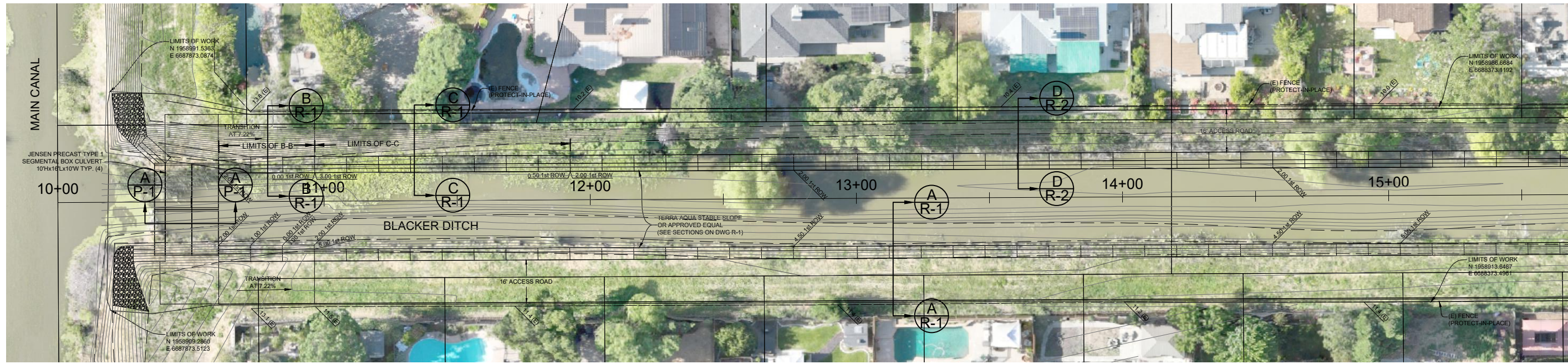
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GENERAL NOTES, ABBREVIATIONS AND LEGEND
BLACKER DRAINAGE DITCH

CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
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Sheet 3 of 14





Rev.	Date	Description

Designed by:	M.H.I. INCORPORATED	Spec No.:	16137
Drawn by:	KAS	Reviewed by:	SMH
Submitted by:	Civil Engineer	File name:	05-23-24
		Plot scale:	AS NOTED

BLACKER DRAINAGE CANAL
 STA 10+00 TO 21+00

Job Title:
 CONSTRUCTION DOCUMENTS FOR:
 Blacker Drainage Canal
 Slope Rehabilitation Project
 Yolo County, California
 Reclamation District No. 900

Sheet reference number:
P1
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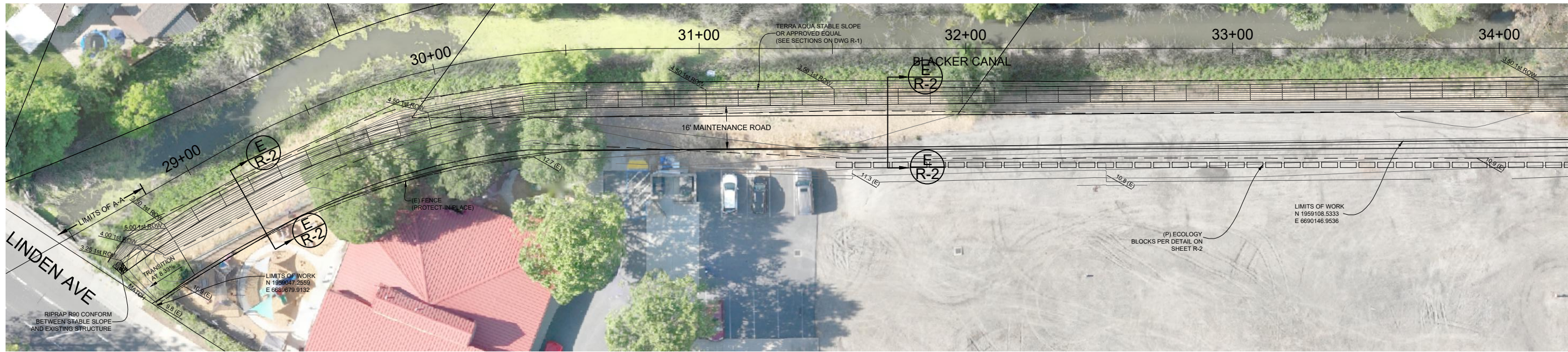


4

3

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1



NOTE:
 PROVIDE SMOOTH TRANSITIONS
 BETWEEN ALL 1ST ROW GRADE
 ELEVATION CHANGES



Rev.	Date	Description

Designed by: M.H.M. INCORPORATED	Date: 05-25-24	Rev.
Drawn by: KKS	Design file no.:	16137
Reviewed by: SMH	Drawing Code:	
Submitted by:	File name:	06-23-24
Civil Engineer:	Plot date:	06-23-24
	Plot scale:	AS NOTED

BLACKER DRAINAGE CANAL
 STA 21+00 TO 34+00

CONSTRUCTION DOCUMENTS FOR:
 Blacker Drainage Canal
 Slope Rehabilitation Project
 Yolo County, California
 Reclamation District No. 900

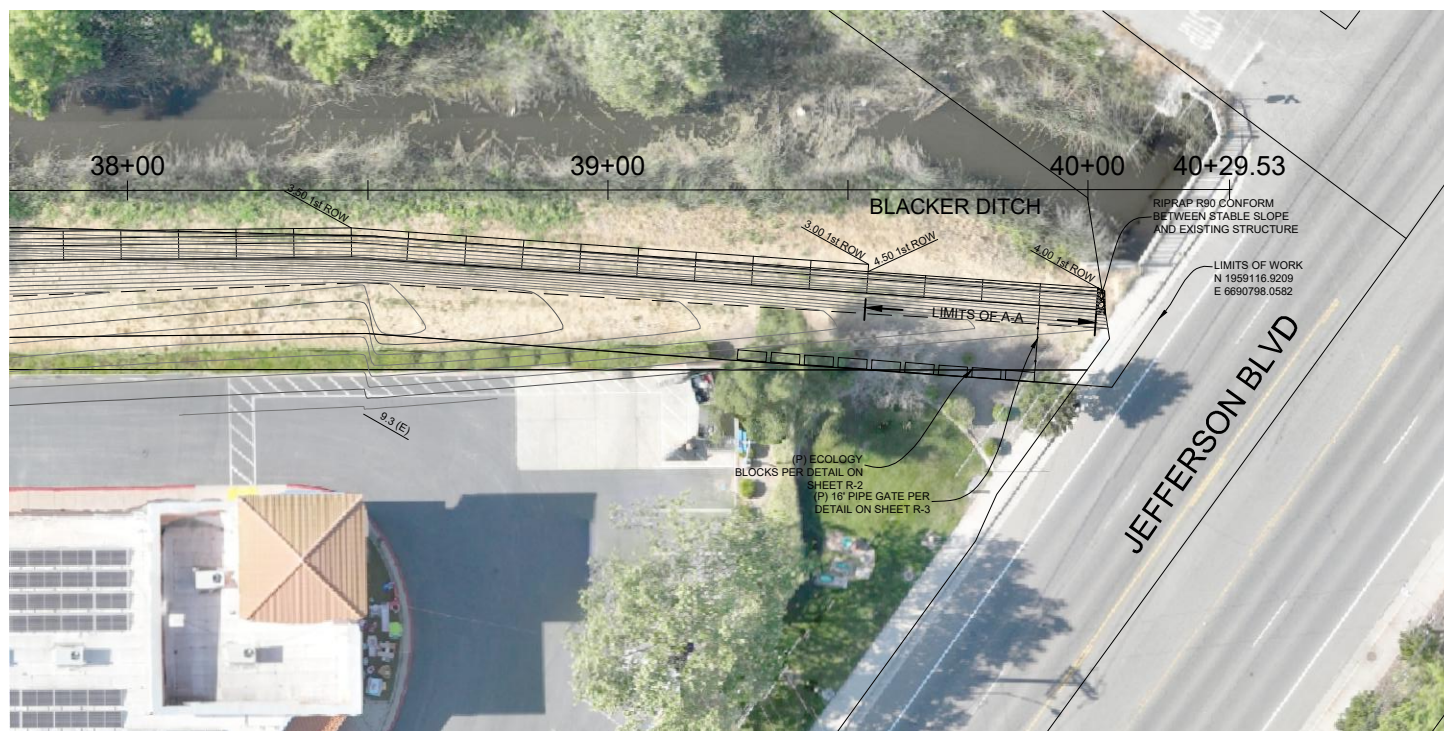
Sheet reference number:
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4

3

2

1



NOTE:
 PROVIDE SMOOTH TRANSITIONS
 BETWEEN ALL 1ST ROW GRADE
 ELEVATION CHANGES



Rev.	Date	Description

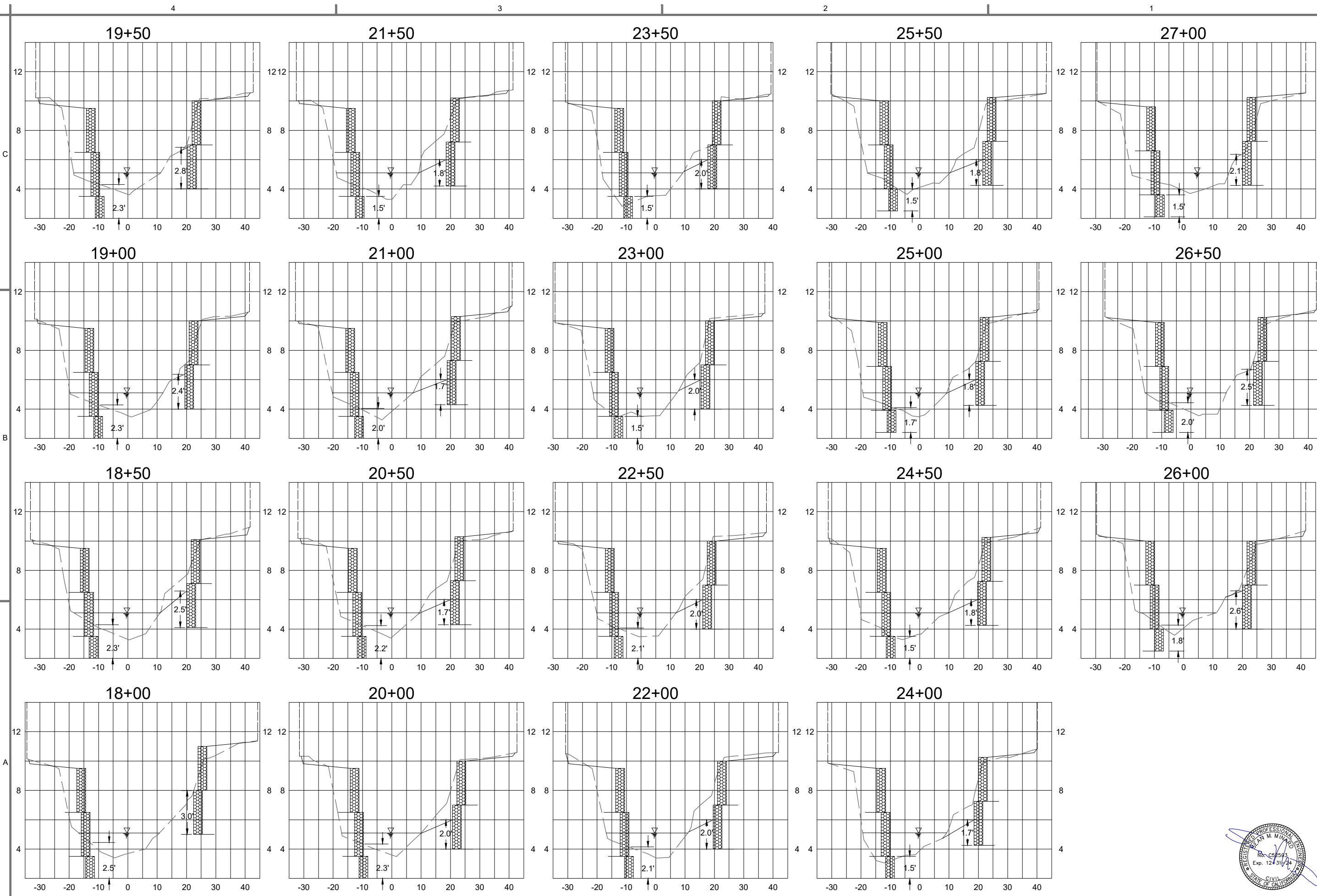
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Drawn by:	KKS	Spec No.:	16137	Design file no.:	16137
Reviewed by:	SMM	Drawing Code:		File name:	06-23-24
Submitted by:		Submitted date:	06-23-24	Plot scale:	AS NOTED
Civil Engineer:					

BLACKER DRAINAGE CANAL
 STA 34+00 TO 40+30

CONSTRUCTION DOCUMENTS FOR:
 Blacker Drainage Canal
 Slope Rehabilitation Project
 Yolo County, California
 Reclamation District No. 900

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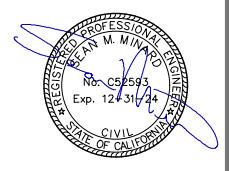
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File name	06-23-24	
Plot date	06-23-24	
Plot scale	AS NOTED	

Designed by	M.H.M. INCORPORATED
Drawn by	KAS
Spec No.	16137
Reviewed by	SMM
Submitted by	
Civil Engineer	

**BLACKER DRAINAGE CANAL
CROSS SECTIONS**

CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
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Sheet 8 of 14

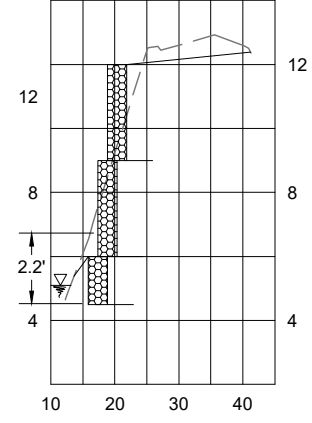


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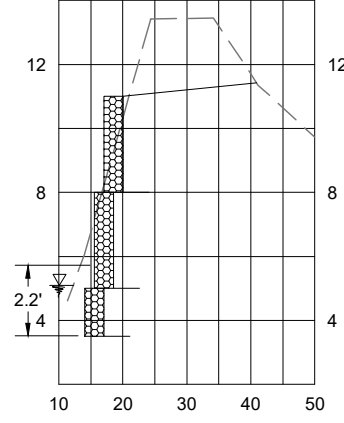
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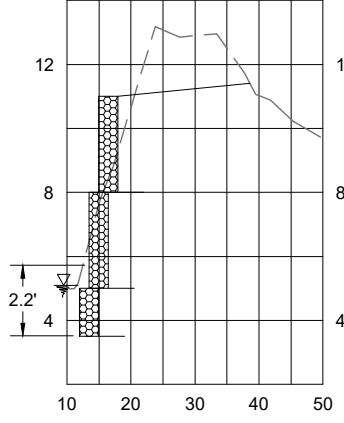
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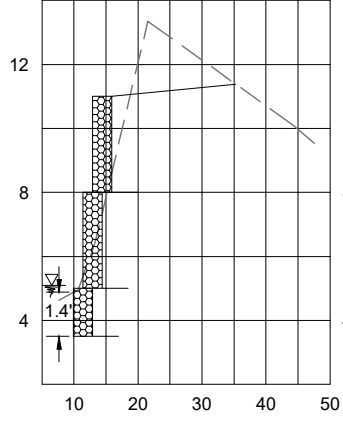
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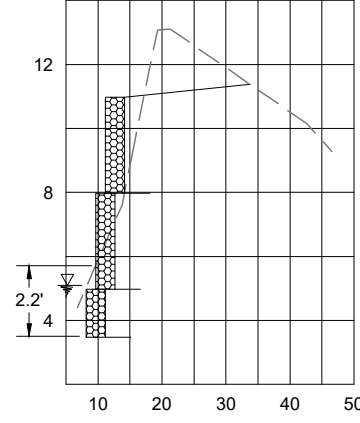
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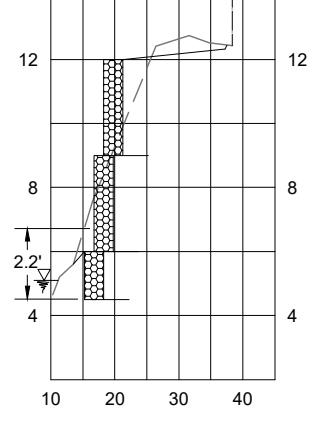
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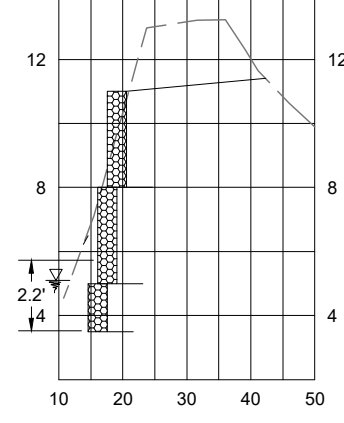
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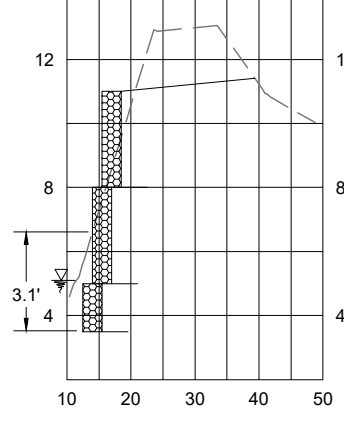
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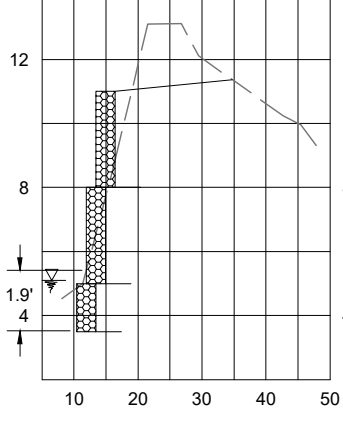
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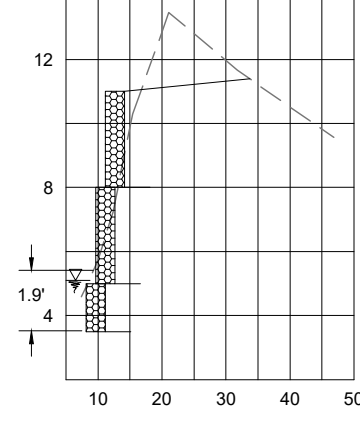
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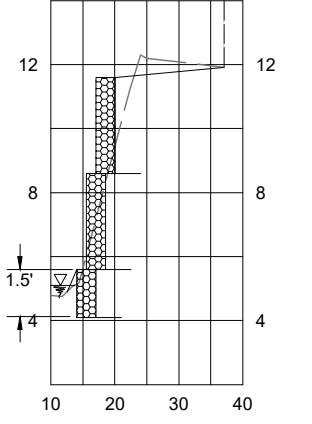
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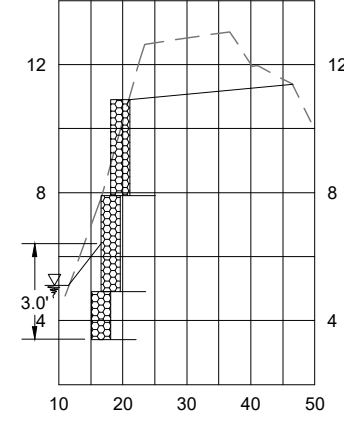
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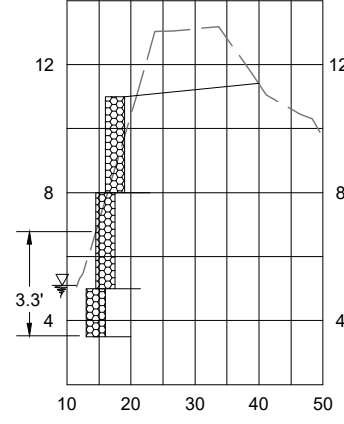
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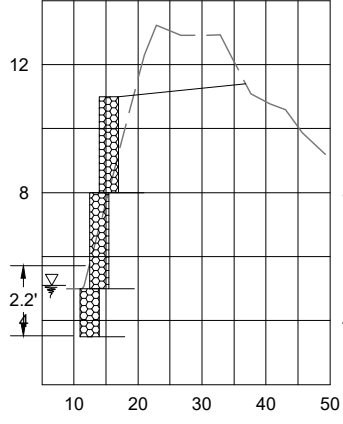
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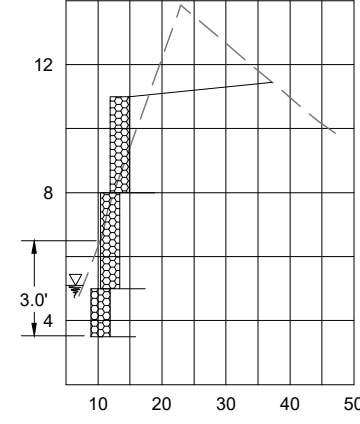
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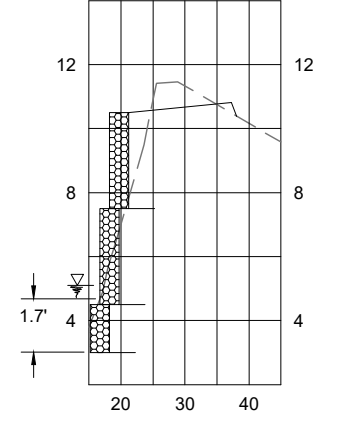
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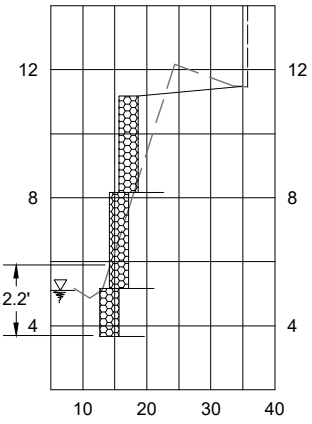
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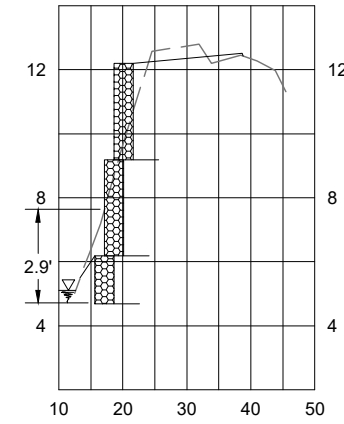
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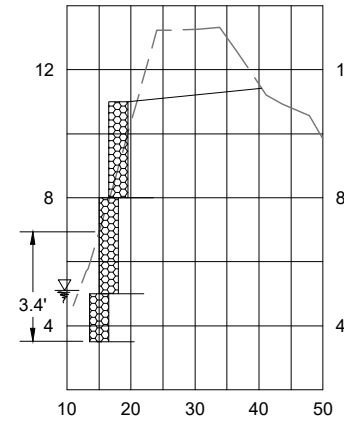
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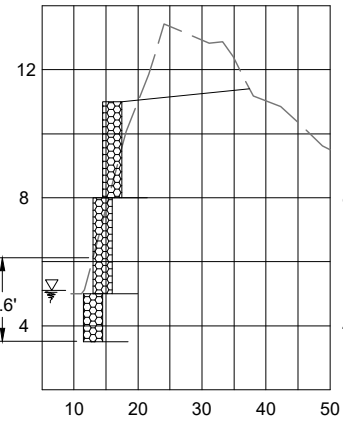
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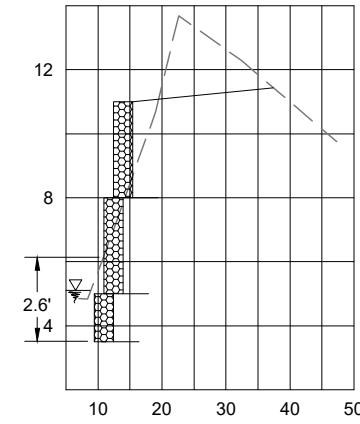
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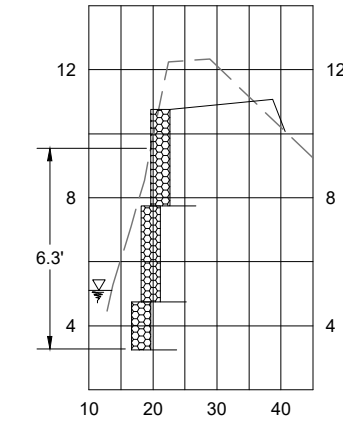
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37+00



39+00



Revision table with columns for Rev., Date, Description, and Symbol.

Project information table including Date (05-25-24), Design file no. (16137), Drawing Code (SMM), and other details.

BLACKER DRAINAGE CANAL CROSS SECTIONS

CONSTRUCTION DOCUMENTS FOR: Blacker Drainage Canal Slope Rehabilitation Project, Yolo County, California, Reclamation District No. 900

Sheet reference number: X3, Sheet 9 of 14



GENERAL NOTES:

1. NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SITE CONDITIONS NOT REFLECTED ON THE DRAWINGS; OF DISCREPANCIES IN MIN. DIMENSIONS INDICATED, SUCH AS GREATER RETAINED EARTH HEIGHTS, CONFLICT IN GRADES, EXTENTS OF BAD SOIL, HEIGHT OF GROUND WATER, DEPTHS OF FOUNDATIONS, ETC., AND ESPECIALLY OF UNCOVERED AND UNEXPECTED UTILITY LINES.
3. ALL WORK NOT DETAILED OR NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTHER SIMILAR WORK SHOWN ON THE DRAWINGS AND ON TYPICAL DETAILS.
4. NO PIPES OR DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.
5. DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING SHORING, FORMING, AND TEMPORARY BRACING.
6. UNLESS OTHERWISE SHOWN, LOCATION OF ALL CONSTRUCTION JOINTS SHALL HAVE THE APPROVAL OF THE ENGINEER. IN FLUID RETAINING STRUCTURES. PVC WATERSTOPS SHALL BE PROVIDED IN ALL CONSTRUCTION JOINTS.

TERRA AQUA STABLE SLOPE

1. GABION BASKET FILLING

1. THE GABION BASKET FACING SHALL BE FILLED WITH HARD, DURABLE STONE FILL VARYING IN DIMENSIONS FROM 4-8 IN DIAMETER. THE ROCK SHALL NOT EXCEED 50% WEAR AS DETERMINED BY AASHTO DESIGNATION: T96. THE ROCK SHALL NOT EXCEED 12% WEIGHTED LOSS AFTER FIVE CYCLES OF THE SODIUM SULFATE SOUNDNESS OF AGGREGATE TEST AASHTO DESIGNATION: T104.

2. ASSEMBLING

1. UNITS SHALL BE ASSEMBLED AND ERECTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND PROJECT SPECIFICATIONS. UNITS ARE SUPPLIED FOLDED FLAT AND PACKED IN BUNDLES. SINGLE UNITS SHALL BE REMOVED FROM THE BUNDLE, UNFOLDED ON A HARD FLAT SURFACE, AND HAVE ALL KINKS AND BENDS WORKED OUT BEFORE ASSEMBLY. THE REINFORCEMENT PANELS MAY BE LEFT FOLDED UP UNTIL THE BASKETS ARE PLACED IN POSITION. THE UNIT SHALL THEN BE ASSEMBLED INDIVIDUALLY BY ERECTING THE FRONT AND BACK ENDS AND DIAPHRAGMS, ENSURING THAT ALL CREASES ARE IN THE CORRECT POSITION AND THE TOPS OF ALL SIDES SATISFACTORILY.
2. THE FOUR CORNERS OF THE UNIT SHALL BE CONNECTED FIRST FOLLOWED BY THE EDGE WIRES OF INTERNAL DIAPHRAGMS TO THE SIDES. THE EDGE SEAM CONNECTION AND THE DIAPHRAGMS TO SIDE CONNECTION SHOULD BE ACCOMPLISHED BY USING LACING WIRE OR APPROVED INTERLOCKING FASTENERS.
3. ACCEPTABLE LACING WIRE IS DESCRIBED IN MANUFACTURER MATERIAL. RECOMMENDED PROCEDURE TO APPLY LACING WIRE CONSISTS OF CUTTING A SUFFICIENT LENGTH OF LACING WIRE, APPROXIMATELY 4.5' - 5' LONG. SECURE ONE END OF THE WIRE BY LOOPING AND TWISTING, THEN PROCEED TO LACE WITH ALTERNATING SINGLE AND DOUBLE LOOPS AT APPROXIMATELY 5" INTERVALS. THEN SECURELY FASTEN THE OTHER END OF THE LACING WIRE. THIS PROCEDURE SHALL DEVELOP A JOINT STRENGTH OF 1200 LBS / FT FOR PVC AND 1400 LBS / FT FOR GALVANIZED GABIONS.
4. THE INSTALLATION OF RECOMMENDED FASTENERS SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. ACCEPTABLE FASTENERS FOR JOINING PVC COATED UNITS SHALL BE FORMED FROM 0.120 INCH MINIMUM DIAMETER STAINLESS STEEL WIRE HAVING HIGH TENSILE STRENGTH AND SHALL CONFORM TO ASTM A313, TYPE 302, CLASS 1. FASTENERS SHALL PRODUCE A FOUR-WIRE SELVEDGE JOINT OF 1200 LBS / FT FOR PVC AND 1400 LBS / FT FOR GALVANIZED GABIONS, WHILE REMAINING LOCKED OR OVERLAPPED A MINIMUM OF 1 INCH.

3. INSTALLATION AND PLACEMENT

1. THE ASSEMBLED UNITS ARE CARRIED TO THE JOB SITE AND PLACED IN THEIR PROPER LOCATION. FOR STRUCTURAL INTEGRITY, THE ADJOINING EMPTY UNITS MUST BE SECURELY JOINED TOGETHER USING THE SAME CONNECTING PROCEDURES DESCRIBED IN SECTION 1, PARAGRAPHS 3 AND 4 ALONG WITH THE VERTICAL EDGES AND THE TOP EDGE OF THEIR CONTRACT SURFACES IN ORDER TO OBTAIN A MONOLITHIC STRUCTURE. AN APPROVED CORNER CLOSURE TOOLS SHALL BE USED TO ADJOIN ADJACENT GABIONS TO INSURE A TIGHT NEAT SEAM AND MINIMIZE GABION WIRE JOINT DEFORMATION.
2. THE REINFORCEMENT PANELS ARE THEN UNFOLDED ONTO THE COMPACTED BACKFILL. IT IS NOT NECESSARY TO ATTACH THE REINFORCEMENT PANELS TO EACH OTHER WITH LACING WIRE OR FASTENERS EXCEPT AT ONE POINT APPROXIMATELY 3 BEHIND THE BACK PANEL FOR ALIGNMENT PURPOSES.
3. AFTER THE LOWER TIER OF UNITS IS FILLED, CLOSED AND THE BACKFILL COMPACTED, THE NEXT TIER OF UNITS IS PLACED ON TOP AND SHALL BE CONNECTED TO THE LOWER TIER ALONG THE FRONT EDGE OF THE CONTACT SURFACE, USING THE SAME CONNECTING PROCEDURE DESCRIBED IN SECTION 2, PARAGRAPHS 3 AND 4.

4. FILLING

1. UNITS SHALL BE FILLED WITH STONE AS DESCRIBED IN BASKET FILL SECTION 1.
2. UNITS MAY BE FILLED BY ALMOST ANY TYPE OF EARTH HANDLING EQUIPMENT. SOME MANUAL STONE ADJUSTMENT DURING THE FILLING OPERATION IS REQUIRED TO MINIMIZE VOIDS. IT IS ALSO RECOMMENDED THAT THE STONE AGAINST THE EXPOSED FACES OF THE UNITS BE HAND-STACKED TO GIVE A NEAT, COMPACT AND ATTRACTIVE APPEARANCE. CARE SHALL BE TAKEN WHEN PLACING FILL MATERIAL TO ASSURE THAT THE SHEATHING OF THE PVC COATED UNITS WILL NOT BE BROKEN OR DAMAGED. THE STONE SHOULD NOT BE DUMPED FROM A HEIGHT GREATER THAN 2' - 3' ABOVE THE TOP OF THE GABION UNITS.
3. THE INDIVIDUAL CELLS OF THE UNITS IN ANY ROW SHALL BE FILLED IN STAGES SO THAT LOCAL DEFORMATION MAY BE AVOIDED. THAT IS, AT NO TIME SHALL ANY CELL BE FILLED TO A DEPTH EXCEEDING 1 MORE THAN AN ADJOINING CELL. IT IS ALSO RECOMMENDED TO SLIGHTLY OVERFILL THE GABION ON APPROXIMATELY 2" - 4" ABOVE THE TOP OF THE GABION UNIT TO ALLOW FOR SETTLEMENT.
4. WELL-PACKED FILLING OF UNITS WITHOUT UNDUE BULGING, AND SECURE LACING AND/OR FASTENING, IS ESSENTIAL IN ALL STRUCTURES.

5. FILTER FABRIC PLACEMENT

1. FILTER FABRIC SHALL BE PLACED SO AS TO COMPLETELY COVER THE BACK OF THE UNIT WITH 1' OF EXCESS MATERIAL TO BE FOLDED TOWARD THE BACKFILL AT BOTH THE TOP AND BOTTOM ALONG THE REINFORCEMENT PANELS. THE FABRIC SHALL BE ATTACHED TO THE TOP OF THE BACK PANEL WITH EITHER LACING WIRE OR APPROVED FASTENERS EVERY 18 INCHES. THE TYPE OF FABRIC WILL BE DEPENDENT UPON THE FILL MATERIAL FURNISHED. THE FABRIC SHALL BE SELECTED BASED UPON GRADATION SAMPLES AND APPROVED BY THE DESIGN ENGINEER.

6. INTERNAL CONNECTING WIRES

1. INTERNAL CONNECTING WIRES ARE USED TO PREVENT THE FRONT FACE OF THE UNITS FROM BULGING AS ADDITIONAL ROWS OR LAYERS ARE PLACED ON TOP OF THE EXISTING LAYERS.
2. 3' HIGH UNITS SHALL BE FILLED IN THREE LAYERS 1' AT A TIME. AFTER THE PLACEMENT OF EACH LAYER, TWO CONNECTING WIRES SHALL BE PLACED TO CONNECT THE EXPOSED FACE OF A CELL TO THE OPPOSITE SIDE OF THE CELL. THE WIRE SHALL BE LOOPED AROUND TWO MESH OPENINGS AND THE ENDS OF THE WIRES SHALL BE SECURELY TWISTED TO PREVENT ITS LOOSENING. AN EXPOSED FRONT FACE IS ANY SIDE OF A CELL THAT WILL BE EXPOSED OR UNSUPPORTED AFTER THE STRUCTURE IS COMPLETED.
3. 1.5' HIGH UNITS SHALL BE FILLED IN TWO LAYERS 9" AT A TIME. AFTER THE PLACEMENT OF EACH LAYER TWO CONNECTING WIRES SHALL BE PLACED TO CONNECT THE EXPOSED FACE OF A CELL TO THE OPPOSITE SIDE OF THE CELL. THE WIRE SHALL BE LOOPED AROUND TWO MESH OPENINGS AND THE ENDS OF THE WIRE SHALL BE TWISTED TO PREVENT ITS LOOSENING.

7. LID CLOSING

1. THE LID SHALL BE STRETCHED TIGHT OVER THE FILLING OF THE STONE UNTIL THE LID MEETS THE PERIMETER EDGES OF THE UNIT. THIS OPERATION SHALL BE ACCOMPLISHED BY USING AN APPROVED LID CLOSING TOOL. THE LID SHALL THEN BE TIGHTLY FASTENED ALONG ALL EDGES, ENDS AND TOPS OF THE DIAPHRAGMS IN THE SAME MANNER AS DESCRIBED IN SECTION 2, PARAGRAPHS 3 AND 4.
2. UPON COMPLETION, THE STRUCTURE SHALL BE CHECKED AND ALL ENDS OF WIRE SHALL BE FOLDED INTO THE STRUCTURE. WELL-PACKED FILLING WITHOUT UNDUE BULGING AND SECURE LACING AND/OR FASTENING IS ESSENTIAL IN ALL STRUCTURES. ALL TERRA AQUA GABION MATERIAL IS MANUFACTURED ACCORDING TO ASTM A975-97 GUIDELINES FOR DOUBLE TWISTED HEXAGONAL MESH GABIONS.

CONCRETE:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, ETC., TO BE CAST IN CONCRETE.
2. ALL REINFORCING BARS, ANCHOR BOLTS AND INSERTS SHALL BE WELL SECURED PRIOR TO POURING CONCRETE.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER.
4. NO PLACEMENT OF CONCRETE UNTIL STEEL & FORMS HAVE BEEN APPROVED BY ENGINEER.

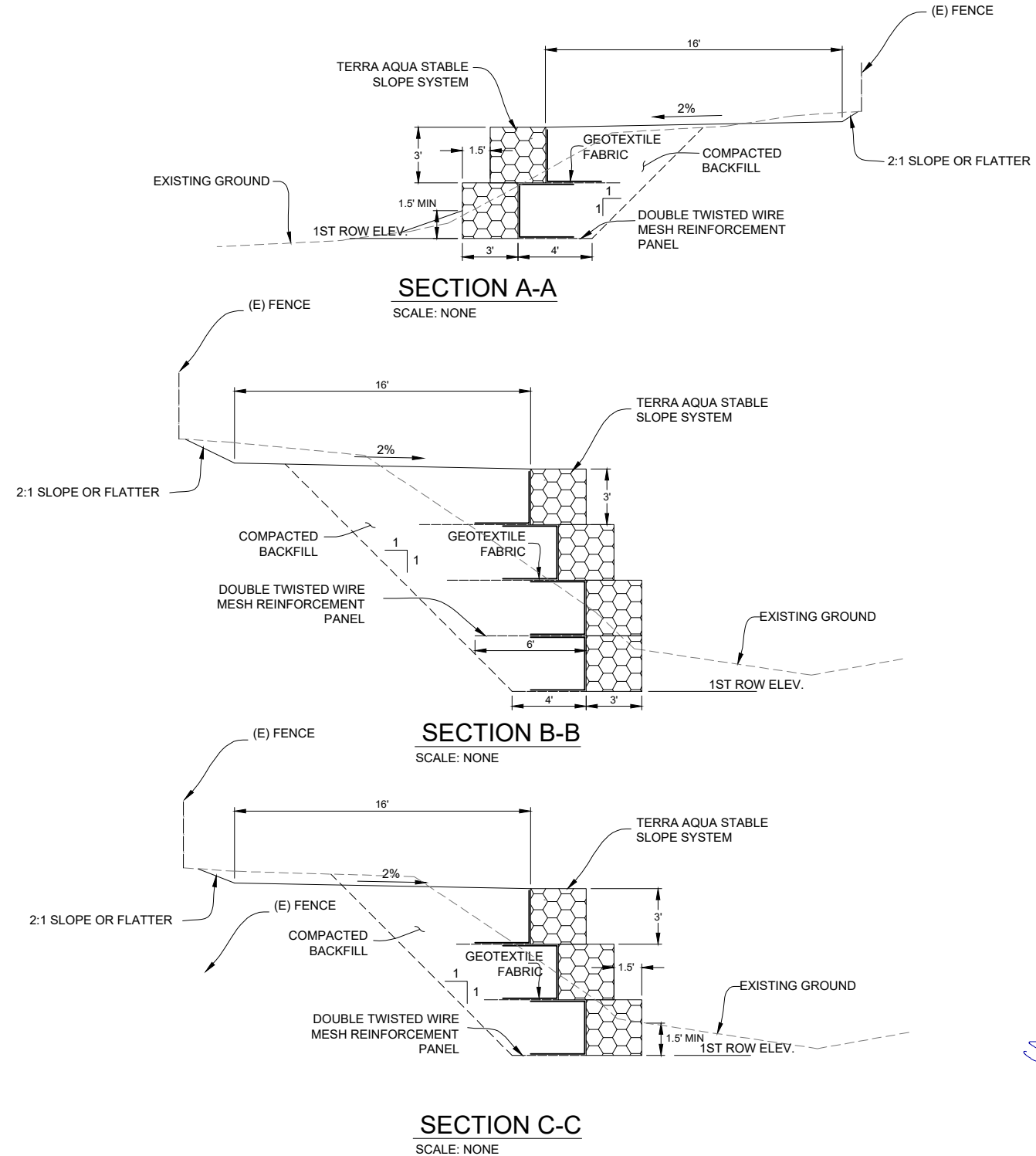
SOIL & FOUNDATIONS:

1. NO CONCRETE OR REBAR SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN APPROVED BY THE ENGINEER.
2. BACKFILLING AND COMPACTING AGAINST BELOW GRADE WALLS SHALL NOT TAKE PLACE UNTIL ALL CONCRETE IS ALLOWED TO CURE A MINIMUM OF 7-DAYS, AND REACHED AT LEAST 75% OF THE SPECIFIED DESIGN STRENGTH.
3. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D 1557A IN SIX-INCH LIFTS.

SPECIAL INSPECTION

1. SPECIAL INSPECTION AS SPECIFIED BY SECTION 1701 OF THE UBC, REFERENCED EDITION IS REQUIRED FOR:

- A. ALL CONCRETE WORK.
- B. ALL ANCHOR BOLT INSTALLATIONS INTO CONCRETE.
- C. ALL WELDING OF ALUM., AND STEEL.



Rev.	Date	Description

Designed by: M.H.M. INCORPORATED	Drawn by: KAS	Spec No.: 16137	Reviewed by: SHM	Submitted by: Civil Engineer
Date: 05-23-24	Design file no: 16137	Drawing Code: R1	File name: 16137_R1_0046	Plot date: 05-23-24
				Plot scale: AS NOTED

TYPICAL CROSS SECTIONS CANAL
BLACKER DRAINAGE CANAL

Job Title:
CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
R1
Sheet 10 of 14



Rev.	Date	Description

Designed by:	M.H.M. INCORPORATED
Drawn by:	KMS
Reviewed by:	SHM
Submitted by:	Civil Engineer
Date:	05-23-24
Design file no.:	16137
Drawing Code:	R1
File name:	16137_R1_0046
Plot date:	05-23-24
Plot scale:	AS NOTED

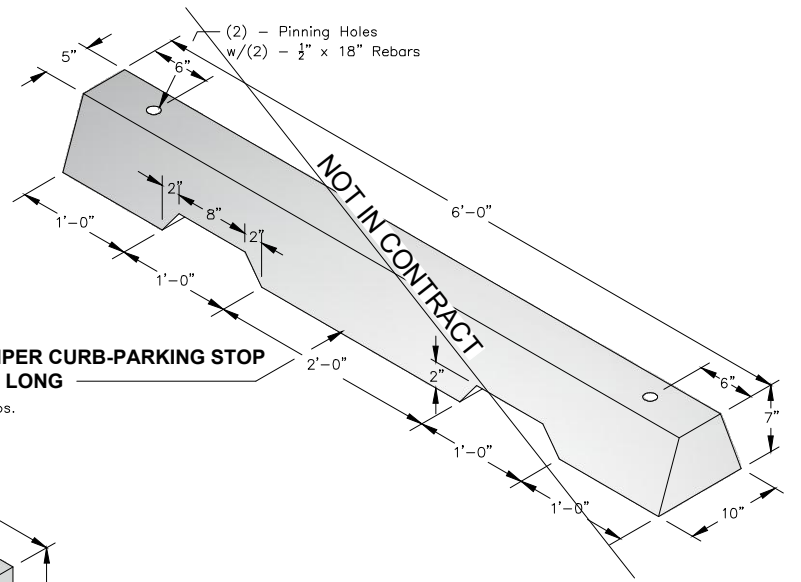
TYPICAL CROSS SECTIONS
AND ECOLOGY BLOCKS
BLACKER DRAINAGE CANAL

CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
R2
Sheet 11 of 14

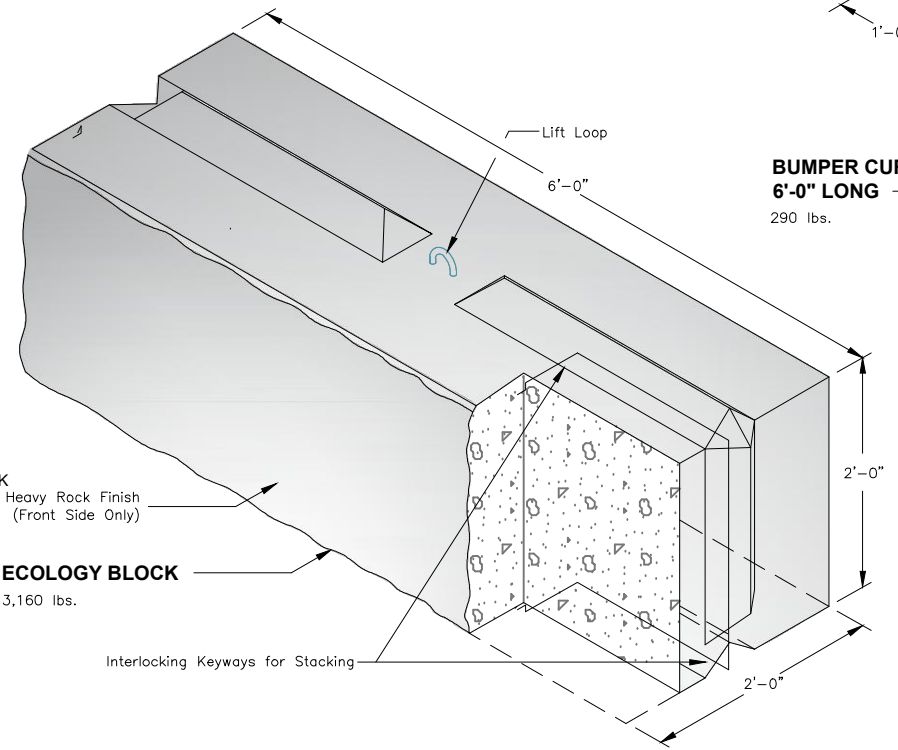


BUMPER CURBS / ECOLOGY BLOCK



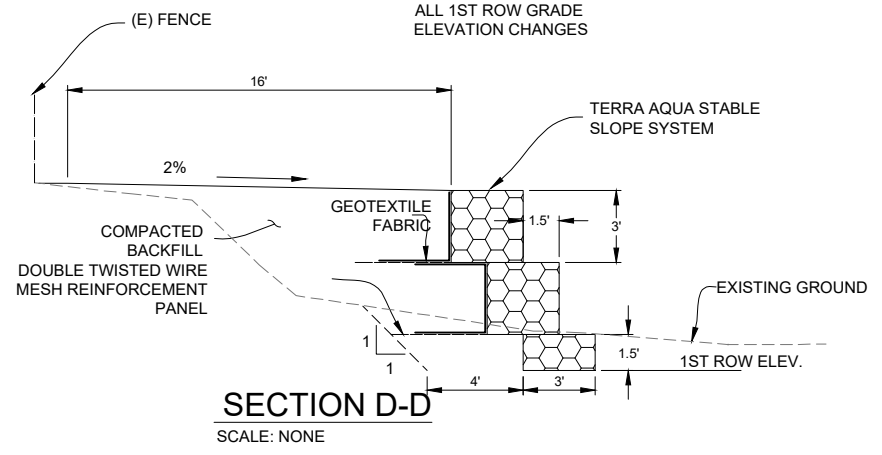
BUMPER CURB-PARKING STOP
6'-0" LONG
290 lbs.

*CONCRETE BLOCKS SHALL BE PLACED ON SUBGRADE COMPACTED TO 90 PERCENT RELATIVE COMPACTION.

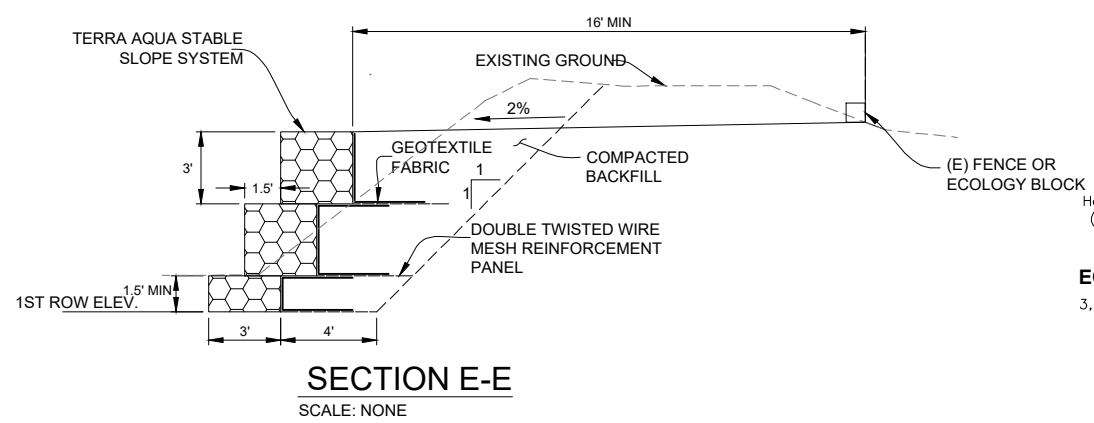


ECOLOGY BLOCK
3,160 lbs.

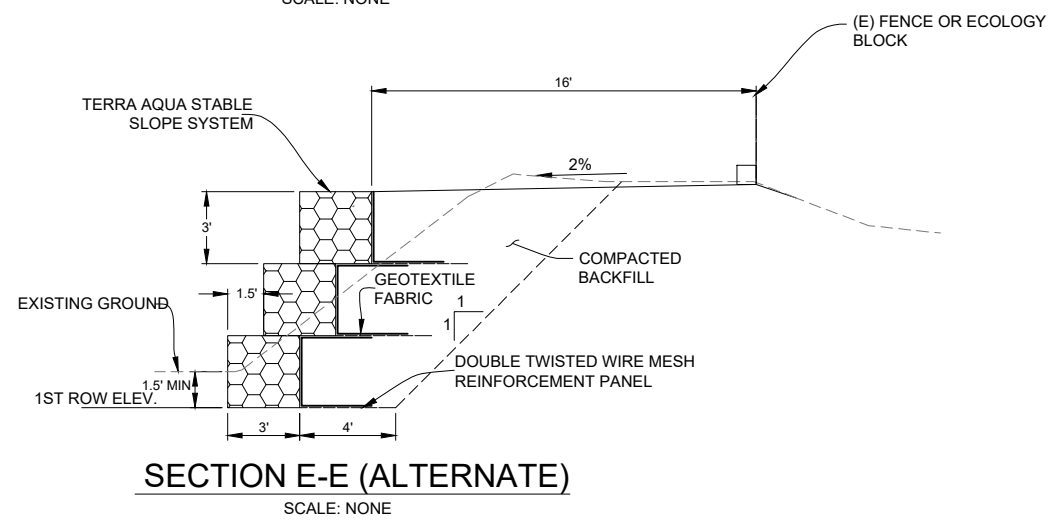
NOTE:
PROVIDE SMOOTH
TRANSITIONS BETWEEN
ALL 1ST ROW GRADE
ELEVATION CHANGES



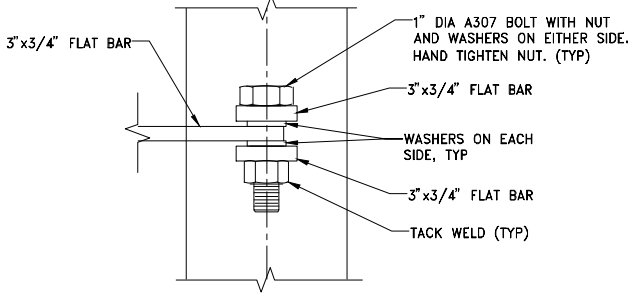
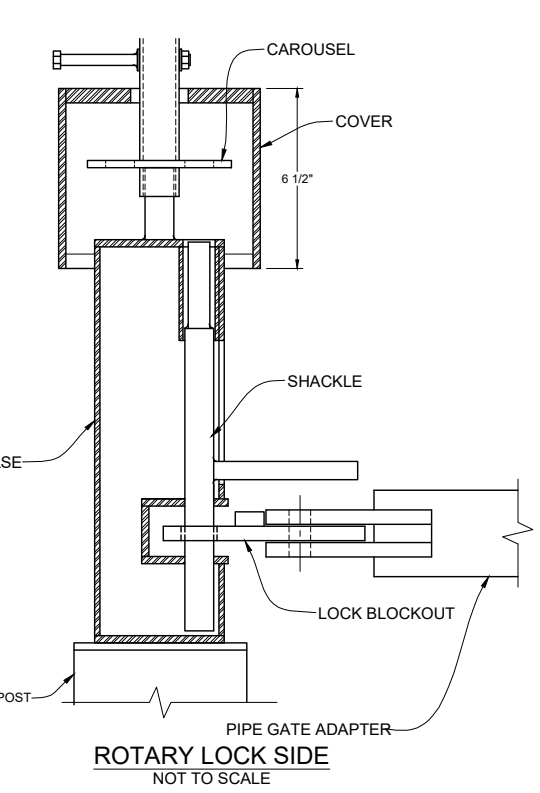
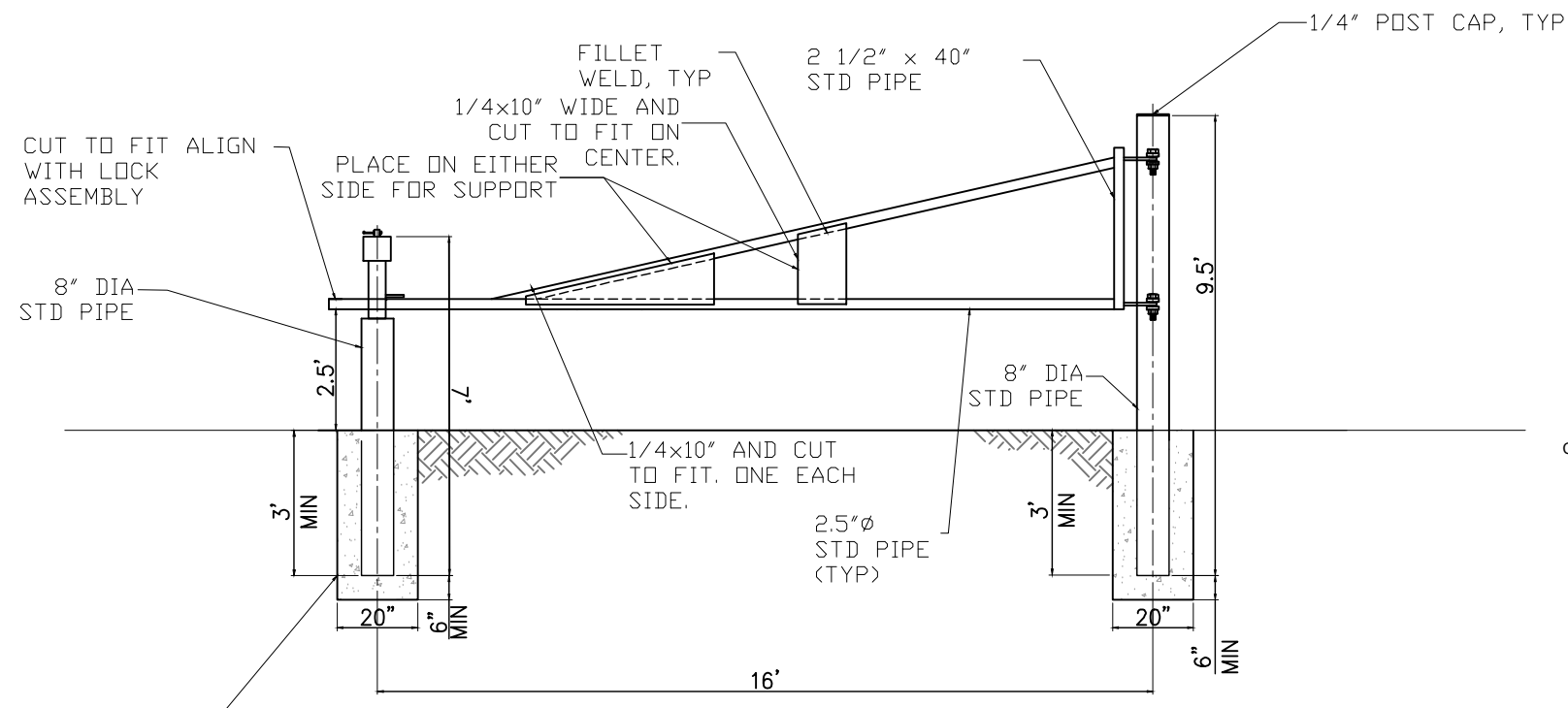
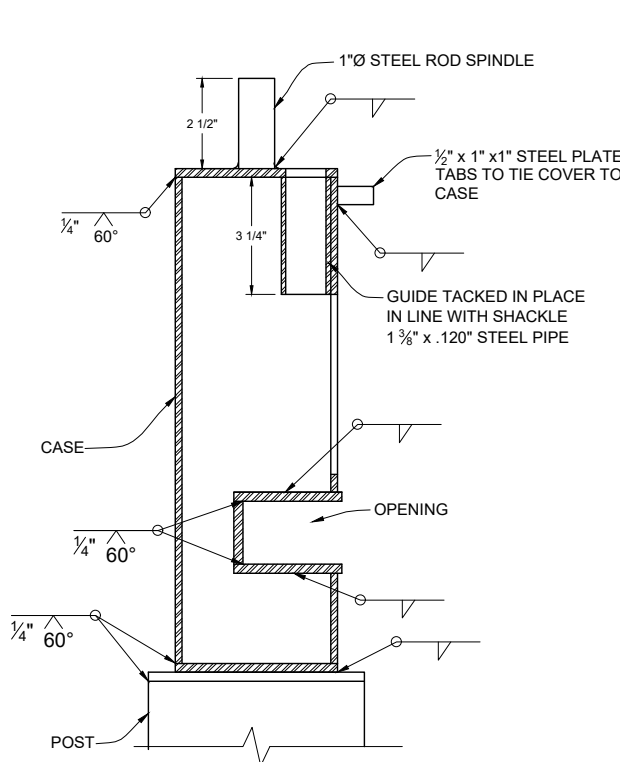
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SECTION E-E
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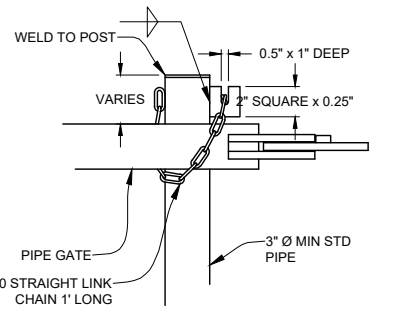
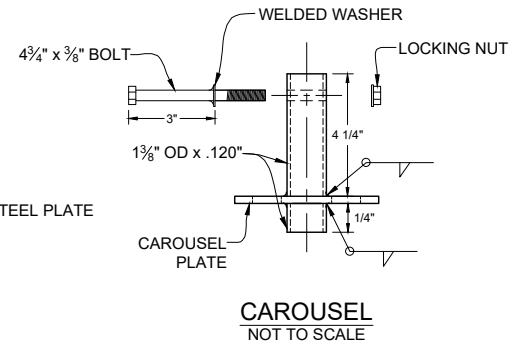
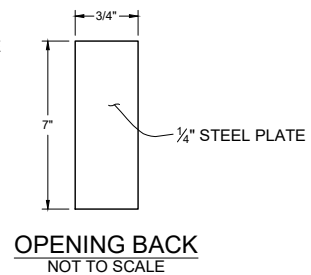
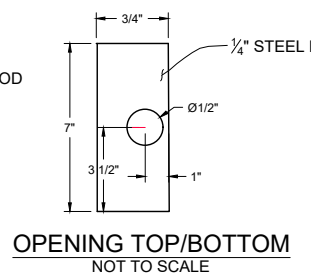
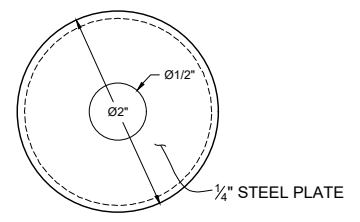
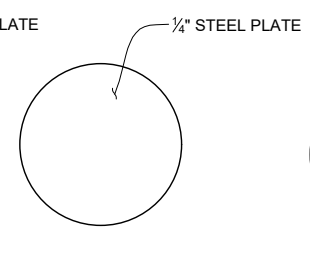
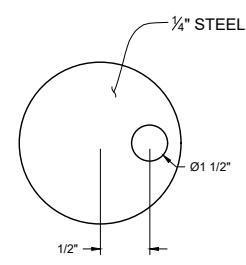
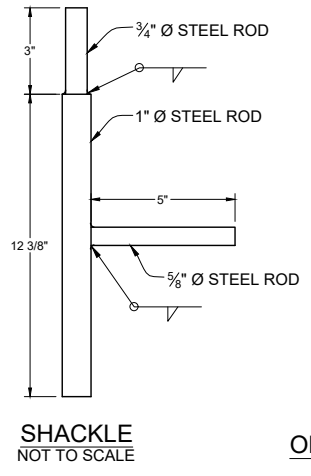
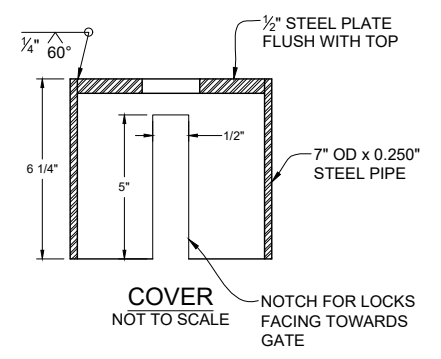
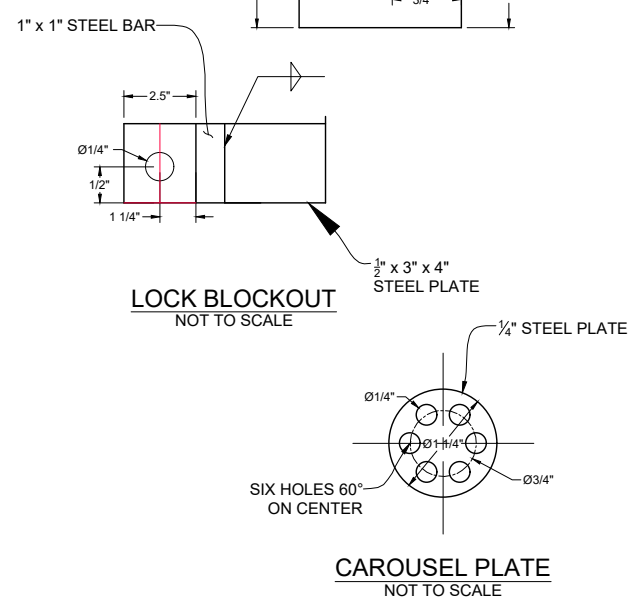
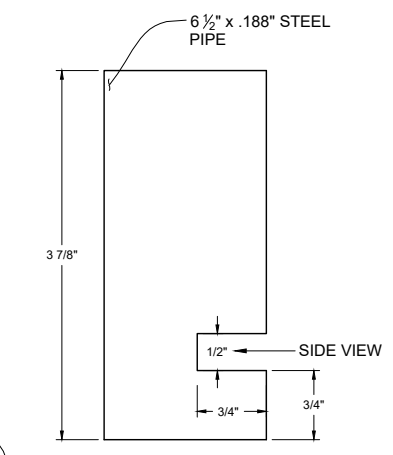
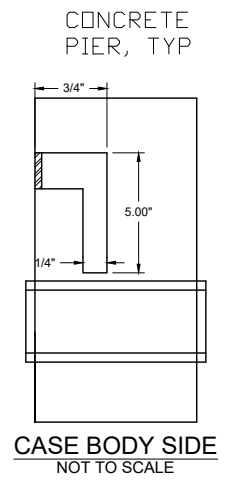
SECTION E-E (ALTERNATE)
SCALE: NONE



1 TYPICAL CAROUSEL PIPE GATE DETAIL

SCALE: NTS

- PIPE GATE NOTES:
1. PROVIDE POST SUPPORTS (HOLD BACK POSTS) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. PAINT GATE WITH 2 COATS OF YELLOW PAINT.
 3. 1/4" CAP ON ALL POSTS.
 4. ALL PIPE SHALL BE GALVANIZED STEEL.

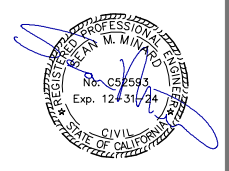


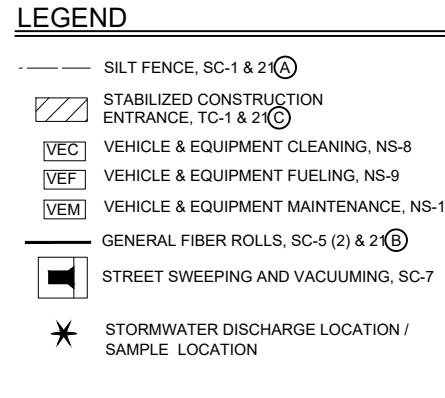
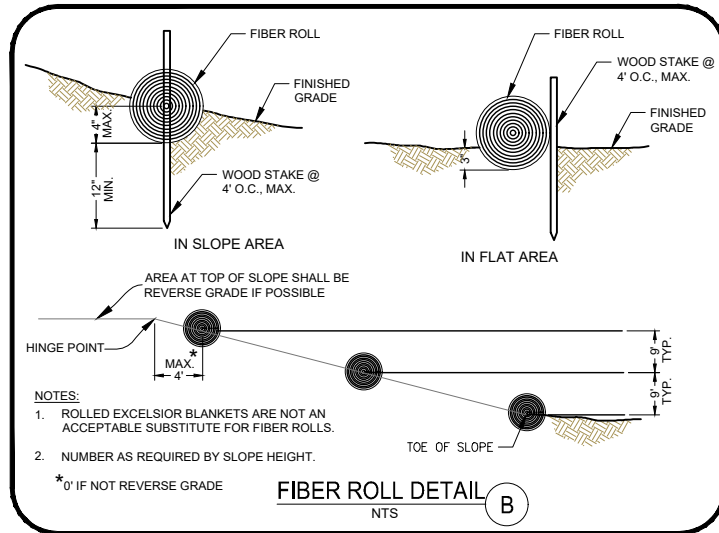
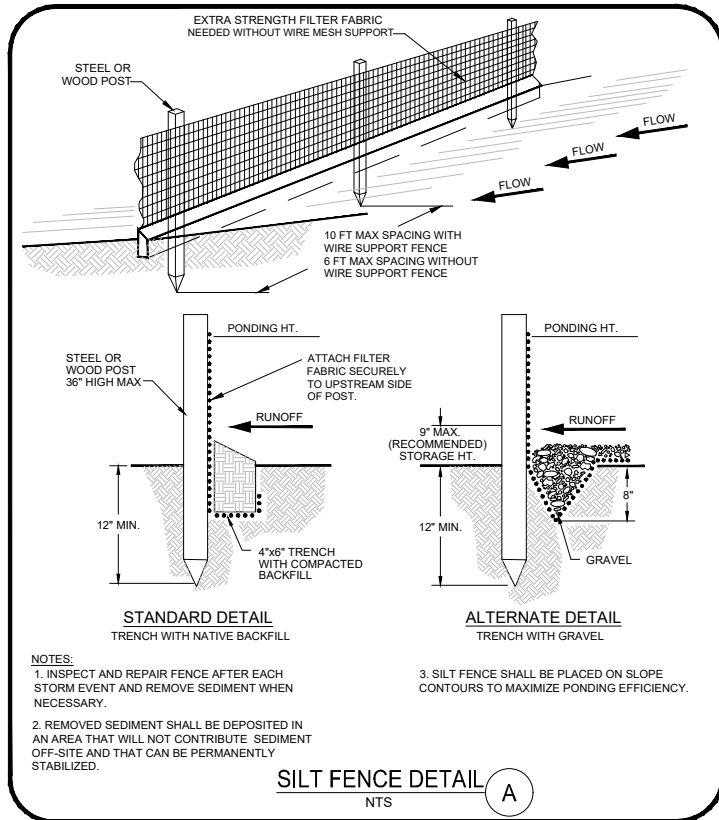
Rev.	Date	Description

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Drawn by:	KAS
Spec No.:	16137
Reviewed by:	SMH
Submitted by:	Civil Engineer
Date:	05-25-24
Design file no.:	16137
Drawing Code:	R1
File name:	16137_R1_004s
Plot date:	05-25-24
Plot scale:	AS NOTED

PIPE GATE DETAIL
BLACKER DRAINAGE CANAL

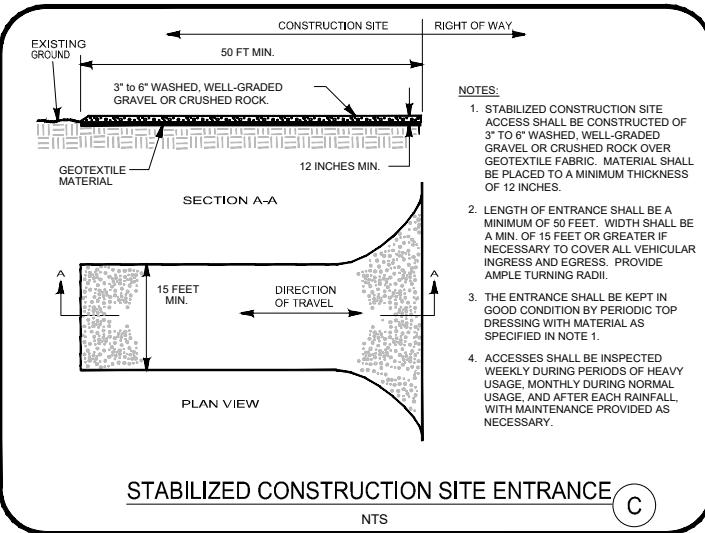
CONSTRUCTION DOCUMENTS FOR:
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Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900



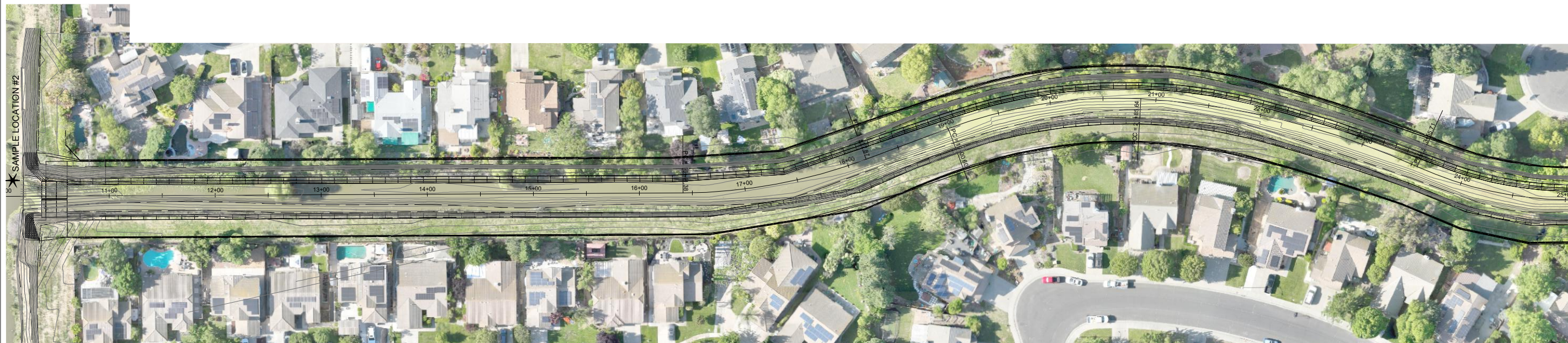


- NOTES:**
- 1.) CONTRACTOR SHALL KEEP THE SITE CLEAN UTILIZING "GOOD HOUSEKEEPING" PRACTICES DESCRIBED IN THE PROJECT "STORM WATER POLLUTION PREVENTION PLAN" (SWPPP) / PERMIT.
 - 2.) CONCRETE WASTE SHALL NOT BE DISPOSED OF TO THE CITY STORM DRAIN SYSTEM AT ANY TIME. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN CONTRACTOR DESIGNATED CLEAN OUT AREAS AND IN CONFORMANCE WITH THE SWPPP. WASHED OUT CONCRETE SHALL BE ALLOWED TO DRY AND REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROPRIATE LOCATION.
 - 3.) CONTRACTOR SHALL PROVIDE Q.S.D.' / Q.S.P. SERVICES / MONITORING AND REPORTING TO CHECK THE SITE ON A DAILY BASIS. THE REPRESENTATIVE SHALL CHECK ALL EROSION CONTROL DEVICES AFTER EACH RAIN EVENT AND PRIOR TO ANY FORECASTED RAIN. THE SITE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO OCTOBER 1 AND READY FOR ANY STORM DURING THE PROJECT.
 - 4.) CONTRACTOR SHALL KEEP AN INSPECTION AND MAINTENANCE LOG IN ACCORDANCE WITH THE SWPPP / PERMIT.
 - 5.) THIS EROSION CONTROL PLAN AND SWPPP SHALL BE KEPT ONSITE AT ALL TIMES DURING CONSTRUCTION.
 - 6.) THE STABILIZED CONSTRUCTION ENTRANCE(S) SHALL BE INSPECTED MONTHLY AND AFTER EACH RAINFALL. GRAVEL MATERIAL SHALL BE REPLACED WITH 1" MIN - 3" MAX WASHED ROCK WHEN SURFACE VOIDS ARE VISIBLE.
 - 7.) ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED. UNFORESEEN SITUATIONS MAY ARISE DURING CONSTRUCTION AND CHANGES TO THIS EROSION CONTROL PLAN SHALL BE MADE TO MEET THE FIELD CONDITIONS. THE CHANGES SHALL BE APPROVED IN ADVANCE OF BEING IMPLEMENTED BY YUBA COUNTY.
 - 8.) IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS SHALL BE LEFT EXPOSED THROUGHOUT THE WINTER.
 - 9.) TRACKED SEDIMENT FROM THE SITE SHALL BE CLEANED DAILY USING A STREET SWEEPER. ALL SOLID WASTE SHALL BE PICKED UP AND DISPOSED OF IN THE PROPER MANNER.

- NOTES:**
- 10.) WHEN WINDS EXCEED 20 MPH ALL GRADING OPERATIONS SHALL STOP.
 - 11.) AFTER THE FIRST STORM THE CONTRACTOR SHALL DETERMINE IF ADDITIONAL MEASURES ARE REQUIRED TO REDUCE SEDIMENT FROM SITE AND SWALES.
 - 12.) CONTRACTOR SHALL PROVIDE EROSION CONTROL BLANKETS IN SWALES AND ON SLOPES, ESPECIALLY NEAR GUTTERS AND INLETS.
 - 13.) CONTRACTOR SHALL PROVIDE PROTECTION FOR AREAS OF DISTURBED SOIL TAKING INTO ACCOUNT SLOPE, AND PROXIMITY TO GUTTERS, INLETS, AND NATURAL DRAINAGE COURSES.
 - 14.) CONTRACTOR SHALL PROVIDE PROTECTION FOR STOCKPILED SOIL TAKING INTO ACCOUNT LOCATION OF PILES WITH RESPECT TO RUNOFF, DIVERSION OF RUNOFF AROUND PILES, TAPERS, EROSION CONTROL BLANKETS AND NETTING, STRAW PROTECTION, AND SEEDING IF PILES WILL REMAIN FOR EXTENDED PERIODS. PERIMETER WADDLES SHALL ALSO BE PROVIDED).
- EROSION CONTROL AND WINTERIZATION:**
- A) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT DISCHARGE OF SEDIMENT FROM THE SITE TO ANY WATERCOURSE, DRAINAGE SYSTEM, OR ONTO ADJACENT PROPERTIES AND TO PREVENT DAMAGE BY EROSION OR DEPOSITION OF SEDIMENT WHICH MAY RESULT FROM THE WORK.
 - B) THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL, STATE AND LOCAL GOVERNMENT LAWS AND REGULATIONS RELATING TO THE DISCHARGE OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHETHER OR NOT THE REQUIRED WORKS OR METHODS ARE STATED ON THESE PLANS.
 - C) THE CONTRACTOR SHALL CONDUCT INSPECTIONS OF THE SITE BEFORE AND AFTER STORM EVENTS AND ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS TO IDENTIFY BMP EFFECTIVENESS AND IMPLEMENT REPAIRS OR DESIGN CHANGES AS FEASIBLE DEPENDING UPON FIELD CONDITIONS.
 - D) THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. A COPY SHALL BE PROVIDED TO THE COUNTY ENGINEER PRIOR TO START OF CONSTRUCTION.

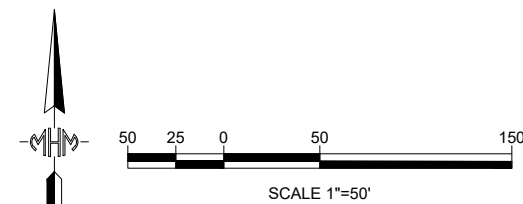


- DUST CONTROL:**
- A) ALL GRADING OPERATIONS ON A PROJECT SHALL BE SUSPENDED WHEN WINDS EXCEED 20 MPH OR WHEN WINDS CARRY DUST BEYOND THE PROPERTY LINE DESPITE IMPLEMENTATION OF ALL FEASIBLE DUST CONTROL MEASURES.
 - B) CONSTRUCTION SITES SHALL BE WATERED AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS OR AIR QUALITY MANAGEMENT DISTRICT AND AS NECESSARY TO PREVENT FUGITIVE DUST IMPACTS.
 - C) AN OPERATIONAL WATER TRUCK SHOULD BE ONSITE AT ALL TIMES. APPLY WATER TO CONTROL DUST AS NEEDED TO PREVENT VISIBLE EMISSIONS VIOLATIONS AND OFFSITE DUST IMPACTS.
 - D) ONSITE DIRT PILES OR OTHER STOCKPILED PARTICULATE MATTER SHOULD BE COVERED. WIND BREAKS INSTALLED, AND WATER AND/OR SOIL STABILIZERS EMPLOYED TO REDUCE WIND BLOWN DUST EMISSIONS. INCORPORATE THE USE OF APPROVED NON-TOXIC SOIL STABILIZERS ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO ALL ACTIVE CONSTRUCTION AREAS.
 - E) ALL TRANSFER PROCESSES INVOLVING A FREE FALL OF SOIL OR OTHER PARTICULATE MATTER SHALL BE OPERATED IN SUCH A MANNER AS TO MINIMIZE THE FREE FALL DISTANCE AND FUGITIVE DUST EMISSIONS.
 - F) APPLY APPROVED CHEMICAL SOIL STABILIZERS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. TO ALL-INACTIVE CONSTRUCTION ARE (PREVIOUSLY GRADED AREAS THAT REMAIN INACTIVE FOR 96 HOURS) INCLUDING UNPAVED ROADS AND EMPLOYEE/EQUIPMENT PARKING AREAS.
 - G) TO PREVENT TRACK-OUT, WHEEL WASHERS SHALL BE INSTALLED WHERE PROJECT VEHICLES AND/OR EQUIPMENT EXIT ONTO PAVED STREETS FROM UNPAVED ROADS. VEHICLES AND/OR EQUIPMENT SHALL BE WASHED PRIOR TO EACH TRIP. ALTERNATIVELY, A GRAVEL BED MAY BE INSTALLED AS APPROPRIATE AT VEHICLE/EQUIPMENT SITE EXIT POINTS TO EFFECTIVELY REMOVE SOIL BUILDUP ON TIRES AND TRACKS TO PREVENT/DIMINISH TRACK-OUT.
 - H) PAVED STREETS SHALL BE SWEEPED FREQUENTLY (WATER SWEEPER WITH RECLAIMED WATER RECOMMENDED, WET BRUSH) IF SOIL MATERIAL HAS BEEN CARRIED ONTO ADJACENT PAVED, PUBLIC THOROUGHFARES FROM THE PROJECT SITE. HOWEVER, DO NOT WASH SEDIMENT OR DIRT LADEN WATER INTO THE STORM SYSTEM.
 - I) PROVIDE TEMPORARY TRAFFIC CONTROL AS NEEDED DURING ALL PHASES OF CONSTRUCTION TO IMPROVE TRAFFIC FLOW, AS DEEMED APPROPRIATE BY THE DEPARTMENT OF PUBLIC WORKS AND/OR CALTRANS AND TO REDUCE VEHICLE DUST EMISSIONS. AN EFFECTIVE MEASURE IS TO ENFORCE VEHICLE TRAFFIC SPEEDS AT OR BELOW 15 MPH.
 - J) REDUCE TRAFFIC SPEEDS ON UNPAVED SURFACES TO 15 MPH MORE OR LESS AND REDUCE UNNECESSARY VEHICLE TRAFFIC BY RESTRICTING ACCESS. PROVIDE APPROPRIATE TRAINING, ONSITE ENFORCEMENT, AND SIGNAGE.
 - K) REESTABLISH GROUND COVER ON THE CONSTRUCTION SITE AS SOON AS POSSIBLE AND PRIOR TO FINAL OCCUPANCY, THROUGH SEEDING AND WATERING.
 - L) OPEN BURNING IS YET ANOTHER SOURCE OF FUGITIVE GAS AND PARTICULATE EMISSIONS AND SHALL BE PROHIBITED AT THE PROJECT SITE. NO OPEN BURNING OF VEGETATIVE WASTE (NATURAL PLANT GROWTH WASTES) OR OTHER ILLEGAL BURN MATERIALS (TRASH, DEMOLITION DEBRIS, ETC.) MAY BE CONDUCTED AT THE PROJECT SITE. VEGETATIVE WASTES SHOULD BE CHIPPED, COMPOSTED, OR USED FOR FIREWOOD. IT IS UNLAWFUL TO HULL WASTE MATERIALS OFFSITE FOR DISPOSAL BY OPEN BURNING.



- SLOPE SEEDING:**
- BASIN SLOPES SHALL HAVE EROSION CONTROL PLACED (WITH LIMITS TO EXTEND 3 FEET MINIMUM BEYOND THE HINGE POINT AT TOP OF SLOPE AND 5 FEET BEYOND TOE OF SLOPE AT BOTTOM) IN CONFORMANCE WITH SECTION 20 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS:
1. HYDRO-SEEDING SHALL CONSIST OF THE FOLLOWING SEED MIXTURE OF EQUAL PARTS OF:
 - A. ZORRO ANNUAL FESCUE @ 20 lb/ACRE
 - B. BLANDO BROME @ 20 lb/ACRE
 - C. COMMON OAT @ 15 lb/ACRE
 - D. FERTILIZER, (16-20-0 AND 15% SULFER) @ 350 lb/ACRE
 - E. WOOD FIBER @ 1500 lb/ACRE
 2. FOR IMMEDIATE EROSION CONTROL, STRAW SHOULD BE DISTRIBUTED AT A RATE OF APPROXIMATELY 100 lbs PER 1000 sq. ft.
 3. SEEDING SHALL BE PLACED IMMEDIATELY AFTER AN AREA IS FINISHED, IF WORK STOPS, OR AS DIRECTED BY THE DISTRICT OR COUNTY.

DETAILS CAN BE FOUND IN THE PROJECT SWPPP OR THE CALTRANS STORM WATER QUALITY HANDBOOK "CURRENT EDITION"



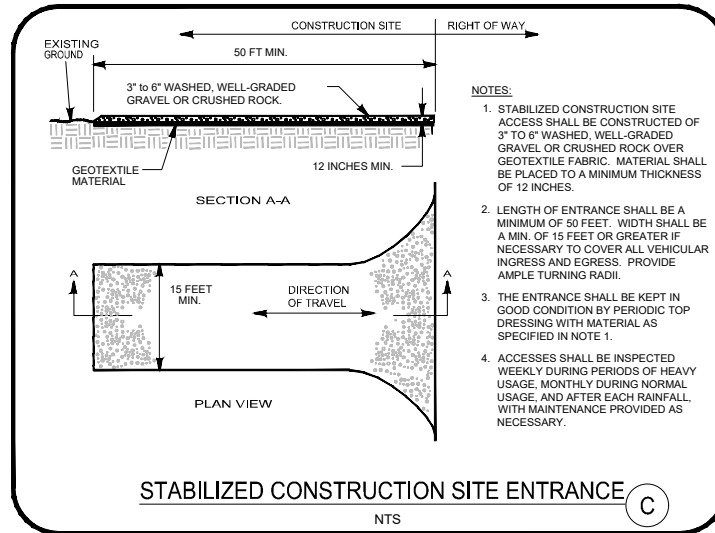
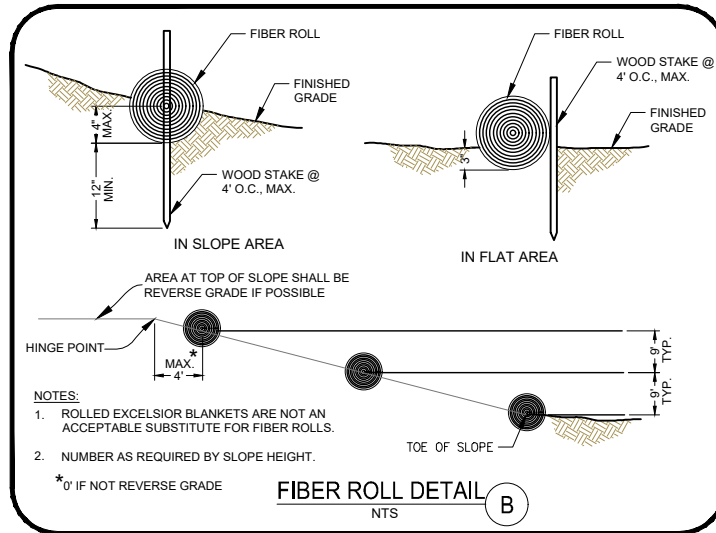
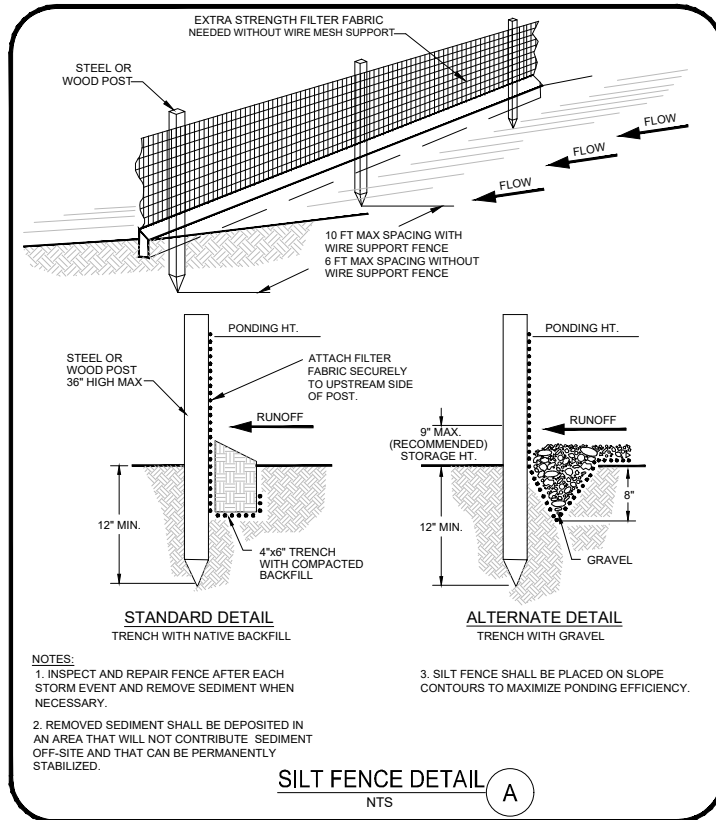
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Reviewed by: SMM	Drawing Code: EC1	File name: 16137_EC1_6066
Submitted by:	Plot date: 05-25-24	Plot scale: AS NOTED
Civil Engineer:		

**EROSION CONTROL PLAN
BLACKER DRAINAGE DITCH**

CONSTRUCTION DOCUMENTS FOR:
Blacker Drainage Canal
Slope Rehabilitation Project
Yolo County, California
Reclamation District No. 900

Sheet reference number:
EC1
Sheet 13 of 14



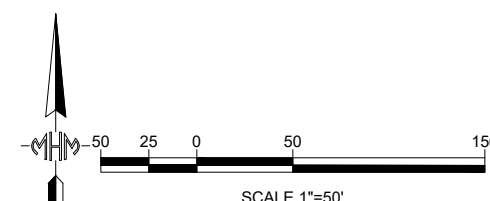
LEGEND

- SILT FENCE, SC-1 & 21 (A)
- ▨ STABILIZED CONSTRUCTION ENTRANCE, TC-1 & 21 (C)
- VEC VEHICLE & EQUIPMENT CLEANING, NS-8
- VEF VEHICLE & EQUIPMENT FUELING, NS-9
- VEM VEHICLE & EQUIPMENT MAINTENANCE, NS-10
- GENERAL FIBER ROLLS, SC-5 (2) & 21 (B)
- ★ STORMWATER DISCHARGE LOCATION / SAMPLE LOCATION

NOTES:

- CONTRACTOR SHALL KEEP THE SITE CLEAN UTILIZING "GOOD HOUSEKEEPING" PRACTICES DESCRIBED IN THE PROJECT "STORM WATER POLLUTION PREVENTION PLAN" (SWPPP) / PERMIT.
 - CONCRETE WASTE SHALL NOT BE DISPOSED OF TO THE CITY STORM DRAIN SYSTEM AT ANY TIME. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN CONTRACTOR DESIGNATED CLEAN OUT AREAS AND IN CONFORMANCE WITH THE SWPPP. WASHED OUT CONCRETE SHALL BE ALLOWED TO DRY AND REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROPRIATE LOCATION.
 - CONTRACTOR SHALL PROVIDE Q.S.D. / Q.S.P SERVICES / MONITORING AND REPORTING TO CHECK THE SITE ON A DAILY BASIS. THE REPRESENTATIVE SHALL CHECK ALL EROSION CONTROL DEVICES AFTER EACH RAIN EVENT AND PRIOR TO ANY FORECASTED RAIN. THE SITE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO OCTOBER 1 AND READY FOR ANY STORM DURING THE PROJECT.
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Reviewed by:	SMH
Submitted by:	Civil Engineer
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BLACKER DRAINAGE DITCH**

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Sheet 14 of 14