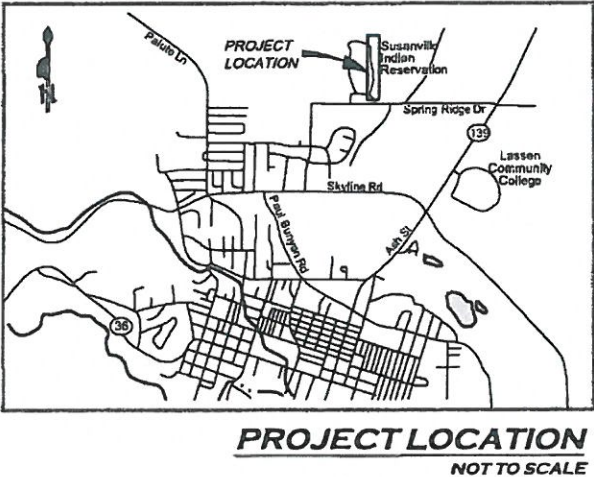
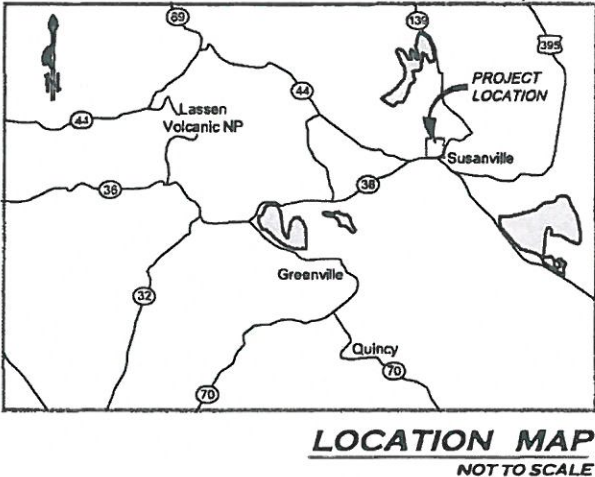
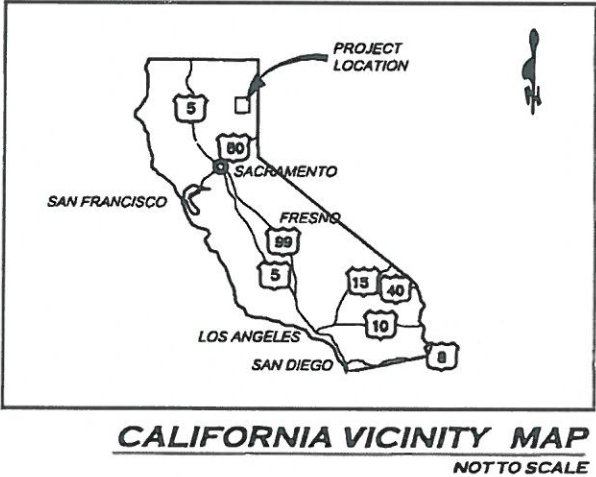


SUSANVILLE INDIAN RANCHERIA
SUSANVILLE, CA
CONSTRUCTION DRAWINGS
UPPER RANCHERIA WATER MAIN, CA23-J49
MAY 2025



SHEET INDEX		
NO.	SHEET	SUBJECT
1	G101	COVER SHEET & LOCATION MAP
2	G102	GENERAL NOTES & LEGEND
3	C101	OVERALL SITE MAP
4	C102	PLAN AND PROFILE
5	C103	SITE IMPROVEMENTS
6	C104	DETAILS
7	C105	DETAILS
8	C106	DETAILS

SUSANVILLE INDIAN RANCHERIA
745 JOAQUIN ST.
SUSANVILLE, CA 96130

THIS PROJECT DESIGNED TO
COMPLY WITH THE
REQUIREMENTS OF THE U.B.C.
U.P.C., U.M.C., & N.E.C (CURRENT
EDITIONS).

Imran Hanif
IMRAN HANIF
PROJECT ENGINEER
DATE 05/27/2025

Julian G. Telle
JULIAN G. TELLE, P.E.
DISTRICT ENGINEER
DATE 5/27/2025

J. David Mazorra
J. DAVID MAZORRA, P.E.
DIRECTOR SANITATION FACILITIES CONSTRUCTION
DATE 5/27/2025

REVISIONS

DATE

INIT.

REGISTERED PROFESSIONAL ENGINEER

JULIAN G. TELLE

No. 76433

EXP. 12/31/2026

CIVIL

STATE OF CALIFORNIA

CALIFORNIA AREA OFFICE

OFFICE OF ENVIRONMENTAL

HEALTH & ENGINEERING

SANITATION FACILITIES CONSTRUCTION

850 CAPITAL MALL, SUITE 7-100

SACRAMENTO, CA 95814

(916) 530-3981

HEALTH

1853

COVER SHEET & LOCATION MAP

SUSANVILLE INDIAN RANCHERIA

UPPER RANCHERIA WATER MAIN

PUBLIC LAW 86-121

CA23-J49

DRAWN BY: J. HAZEN

CHECKED BY: J. TELLE

APPROVED BY:

FILE NAME: SUSANVILLE-CA23-J49

LAYOUT NAME: G101

PROJ ENG: J. HANIF

SCALE: P.I.S.

G101

SHEET

1

OF

8

GENERAL NOTES

- THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM AVAILABLE RECORDS. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES; HOWEVER, THE OWNER AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF THOSE UTILITIES SHOWN AND ANY THAT MAY EXIST AND ARE NOT SHOWN PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL EXPOSE ALL UNDERGROUND FACILITIES THAT ARE TO BE CONNECTED TO OR THAT ARE IN THE PATH OF THE PROPOSED IMPROVEMENTS FOR VERIFICATION OF LOCATION AND ELEVATION PRIOR TO COMMENCING CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICES ALERT (U.S.A.) 48 HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES. (PHONE: 800-227-2600)
- THE CONTRACTOR SHALL PERFORM WORK WITH A MINIMAL DISRUPTION OF SERVICES, AND SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY PLANNED SHUTDOWN OF POTABLE WATER FACILITIES.
 - THE PIPELINE PROFILE SHOWN IS SCHEMATIC ONLY. PROVIDE 3' MIN BURY DEPTH (COVER) UNLESS SPECIFIED OTHERWISE. SLOPE PIPELINE CONTINUOUSLY DOWNHILL TO BLOWOFF VALVE ASSYS AND CONTINUOUSLY UPHILL TO ARV ASSYS. SEE SPECIFICATIONS FOR LIMITATIONS ON DEFLECTION OF JOINTS AND LONGITUDINAL BENDING OF PIPE.
 - PROVIDE SERVICE SADDLES, ALIGNED VERTICALLY, ADJACENT TO VALVES OR AT OTHER LOCATIONS AS NECESSARY, FOR PRESSURE TESTING AND /OR DISINFECTION OF PRESSURE PIPELINES. SADDLE SHALL BE AT LEAST 3 FEET FROM A PIPE JOINT, FITTING OR VALVE.
 - PROVIDE 6' MIN. HORIZ DISTANCE BETWEEN (E) POWER POLES AND (N) PIPELINE, MEASURED CENTERLINE TO CENTERLINE.
 - PROVIDE 1' MIN CLEARANCE BETWEEN (E) CULVERTS AND (N) PIPELINE; CENTER FULL LENGTH OF PIPE AT CULVERT. PROVIDE MIN CLASS 200 PIPE WHERE PIPELINE IS BELOW CULVERT.
 - THE CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED.
 - THE CONTRACTOR SHALL MAINTAIN VEHICLE ACCESS TO ALL PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
 - PROTECT PIPING AGAINST THRUST BY USE OF THRUST BLOCK OR RESTRAINED JOINTS.
 - RECORD DRAWINGS SHALL INCLUDE THE LOCATION OF INSTALLED OR RECONNECTED WATER SERVICES.

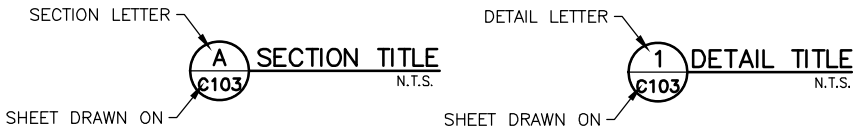
ABBREVIATIONS

A		F		N		V	
AB	ANCHOR BOLT	FD	FLOOR DRAIN	(N)	NEW	VAR	VARIOUS
AC	ASPHALT CONCRETE	FDN	FOUNDATION	N	NORTH	VB	VAPOR BARRIER
AFF	ABOVE FINISHED FLOOR	FG	FINISH GRADE	NEC	NATIONAL ELECTRICAL CODE	VC	VERTICAL CURVE
AFG	ABOVE FINISHED GRADE	FH	FIRE HYDRANT	NIC	NOT IN CONTRACT	VERT	VERTICAL
AGG	AGGREGATE	FLG	FLANGE	NTS	NOT TO SCALE		W
AGGB	AGGREGATE BASE	FLH	FLUSH HYDRANT		O		
ARV	AIR RELEASE VALVE	FLR	FLOOR DRAIN	OC	ON CENTER	W	WATER OR WEST
ASPH	ASPHALT CONCRETE	FM	FORCE MAIN	OD	OUTSIDE DIAMETER	W/	WITH
AWG	AMERICAN WIRE GAUGE	FRP	FIBERGLASS REINF. PLASTIC	OH	OVERHEAD	WM	WATER MAIN
		FS	FLOW SWITCH	OPNG	OPENING	W/O	WITHOUT
		FT	FOOT OR FEET		P	WSL	WATER SERVICE LINE
		FM	FORCE MAIN		POLYETHYLENE	WSP	WELDED STEEL PIPE
		FTG	FOOTING		PRESSURE GAUGE	WST	WATER STORAGE TANK
		FV	FLUSH VALVE		PROPERTY LINE	WW	WASTEWATER
					POWER POLE	WWTP	WASTEWATER TREATMENT PLANT
					PRESSURE		
					PRESSURE RELIEF VALVE		
					POLYVINYL CHLORIDE		
					PRESSURE SWITCH		
					PAVEMENT		
					POTABLE WATER		

LEGEND

	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED WATER SERVICE LINE		EXISTING WATER SERVICE LINE
	PROPOSED GATE VALVES		EXISTING BURIED ELECTRICAL
	PROPOSED AIR RELEASE VALVE (ARV)		EXISTING SEWER LINE
	PROPOSED FIRE HYDRANT		EXISTING GATE VALVES
	PROPOSED FLUSH HYDRANT		EXISTING PRESSURE RELIEF VALVE (PRV)
	PROPOSED BLIND FLANGE		EXISTING POWER POLE
	PROPOSED WATER METER		EXISTING WATER METER
	PROPOSED CHECK VALVE		EXISTING AIR RELEASE VALVE (ARV)
	PROPOSED PRESSURE RELIEF VALVE		EXISTING WELL
			ROAD (DIRT/GRAVEL)
			ROAD (PAVED)
			ABANDONED UTILITY LINES
			CONCRETE
			EARTH

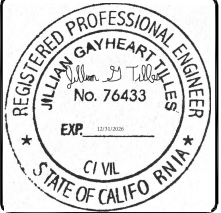
REFERENCE SYMBOLS



CONTACTS

ENGINEERING:
INDIAN HEALTH SERVICE
1900 CHURN CREEK ROAD, STE. 210
REDDING, CA 96002
TELE: 530-246-5339
FAX: 530-246-5210

TRIBE:
SUSANVILLE INDIAN RANCHERIA
745 JOAQUIN ST
SUSANVILLE, CA 96130
TELE: 530-257-6264

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CALIFORNIA AREA OFFICE
OFFICE OF ENVIRONMENTAL
HEALTH & ENGINEERING

SANITATION FACILITIES CONSTRUCTION
650 CAPITAL MALL, SUITE 7-100
SACRAMENTO, CA 95814
(916) 930-3981



COVER SHEET & LOCATION MAP	
SUSANVILLE INDIAN RANCHERIA UPPER RANCHERIA WATER MAIN PUBLIC LAW 86-121 CA23-J49	
DRAWN BY: J. HOLDEN	FILE NAME: SUSANVILLE_CA23-J49
CHECKED BY: J. TILLES	LAYOUT NAME: G102
APPROVED BY:	PROJ ENG: I. HANIF SCALE: N.T.S.

G102
SHEET
2 OF 8

USER: jholden FILE: Q:\District Offices\RDO\A. SFC Main Files\Susanville\CA 23-149 UpperRanchWaterMain\ACAD\Susanville_CA23-J49.dwg 5/15/2025 - 9:29am



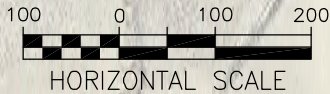
NOTES:

- EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING.
- INSTALL MARKER POSTS AT ALL BENDS, GATE VALVES, AND OTHER BURIED WATER MAIN FEATURES PER DETAIL 3/C106.

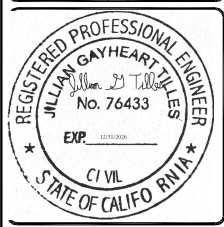
1
C101

OVERALL SITE MAP

SCALE: 1"=100'



DATE	REVISIONS	INIT.



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OFFICE OF ENVIRONMENTAL
HEALTH & ENGINEERING

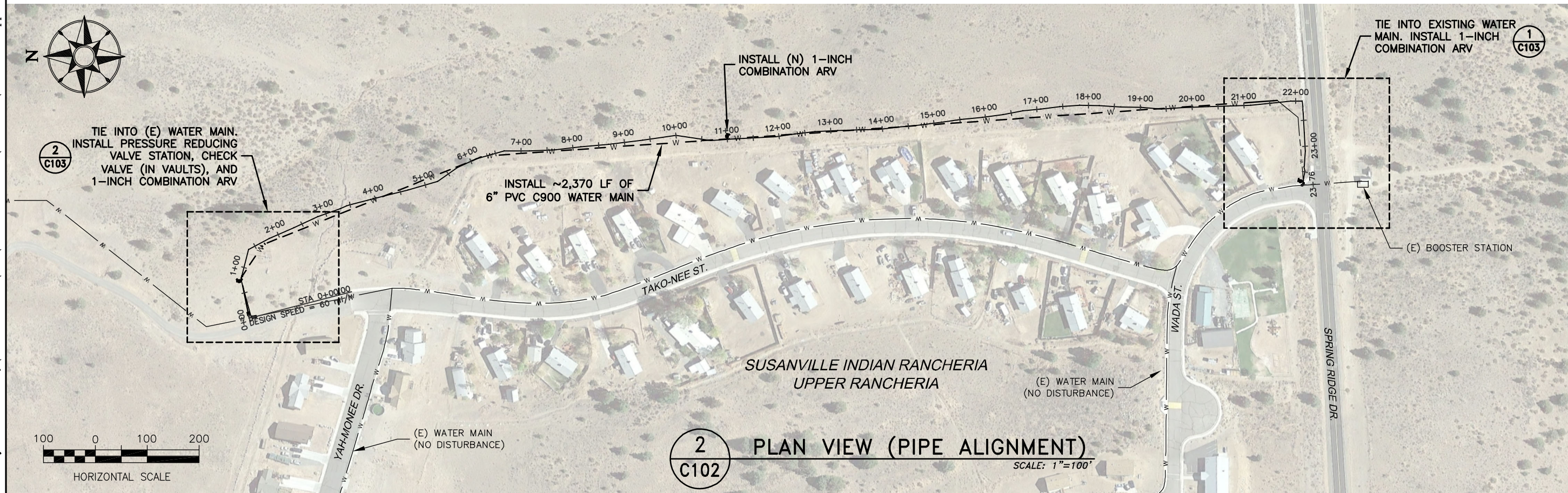
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650 CAPITAL MALL, SUITE 7-100
SACRAMENTO, CA 95814
(916) 930-3981



OVERALL SITE MAP SUSANVILLE INDIAN RANCHERIA UPPER RANCHERIA WATER MAIN PUBLIC LAW 86-121 CA23-J49	DRAWN BY: J. HOLDEN	FILE NAME: SUSANVILLE_CA23-J49
	CHECKED BY: J. TILLES	LAYOUT NAME: C101
	APPROVED BY:	PROJ. ENG: I. HANIF
	SCALE: 1"=100'	

G102
SHEET
3 OF 8

2 PLAN VIEW (PIPE ALIGNMENT) SCALE: 1"=100'

[illegible]

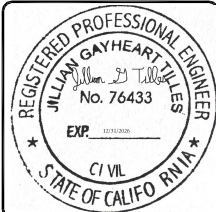
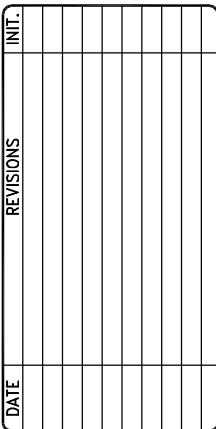
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SACRAMENTO, CA 95814
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<h1>PLAN AND PROFILE</h1> <p>SUSANVILLE INDIAN RANCHERIA UPPER RANCHERIA WATER MAIN PUBLIC LAW 86-121 CA23-J49</p>	DRAWN BY: J. HOLDEN	FILE NAME: SUSANVILLE, CA23-J49
	CHECKED BY: J. TILLES	LAYOUT NAME: C102
	APPROVED BY:	PROJ ENG: J. HANIF
		SCALE: 1"=100'

C102
SHEET
4 OF 8

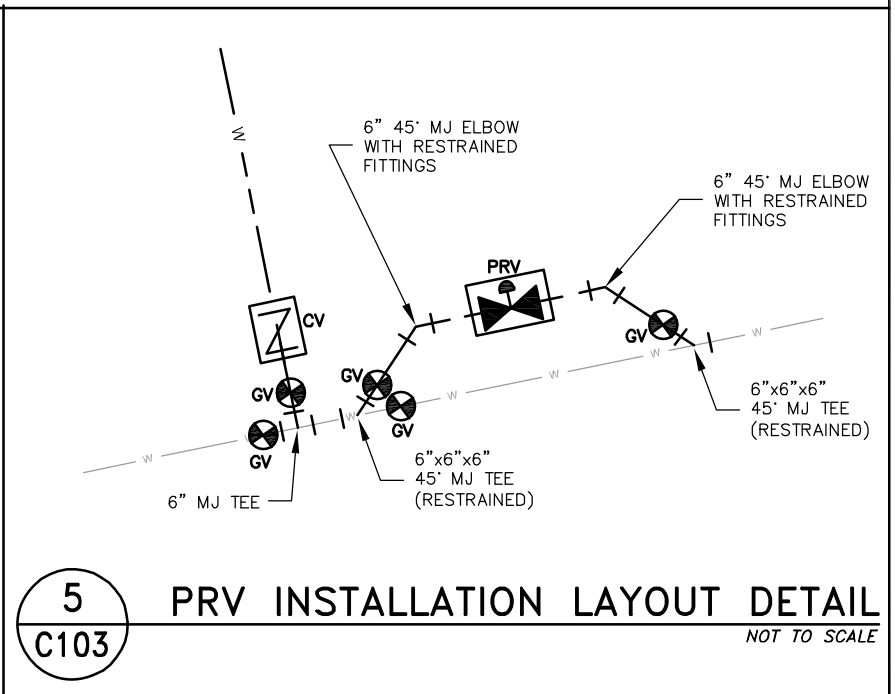
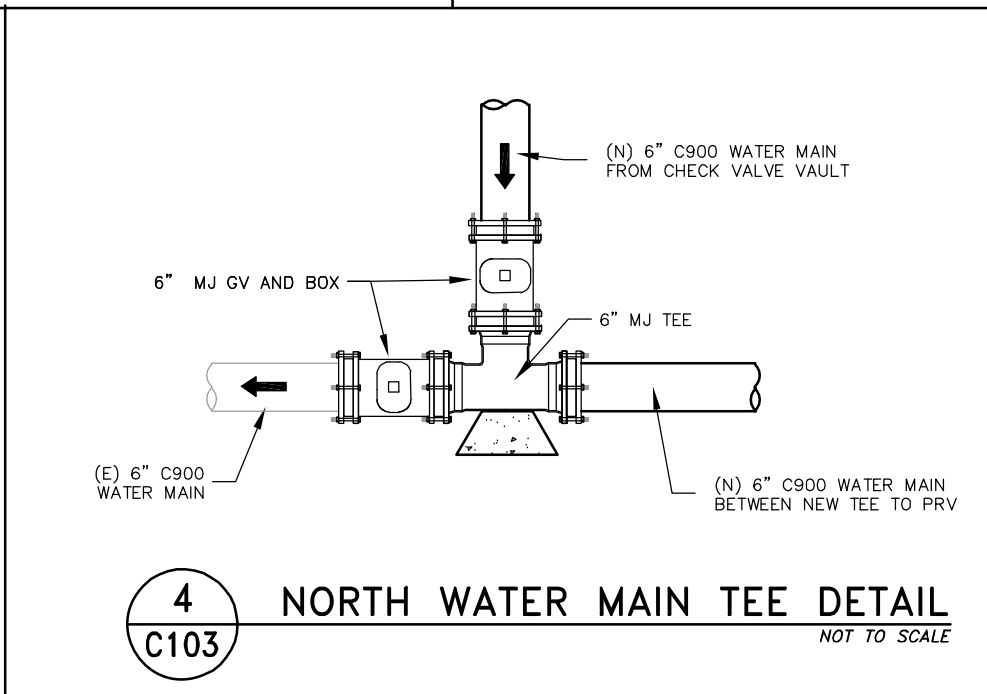
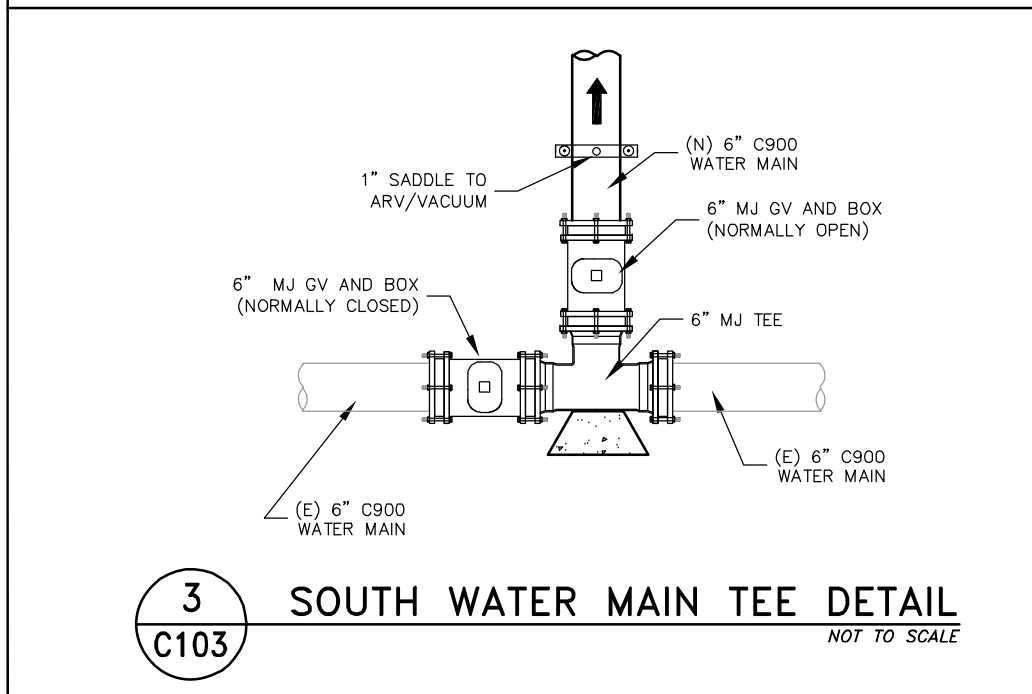
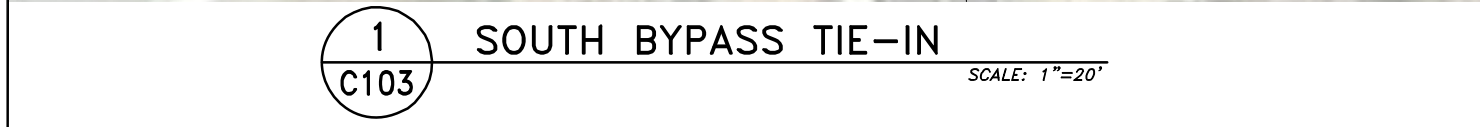


<p>CALIFORNIA AREA OFFICE OFFICE OF ENVIRONMENTAL HEALTH & ENGINEERING</p>	<p>SANITATION FACILITIES CONSTRUCTION 650 CAPITAL MALL, SUITE 7-100 SACRAMENTO, CA 95814 (916) 930-3981</p>
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<h1 style="text-align: center;">SITE IMPROVEMENTS</h1> <p style="text-align: center;"> SUSANVILLE INDIAN RANCHERIA UPPER RANCHERIA WATER MAIN PUBLIC LAW 86-121 CA23-J49 </p>	DRAWN BY: J. HOLDEN	FILE NAME: SUSANVILLE_CA23-J49
	CHECKED BY: J. TILLES	LAYOUT NAME: C103
	APPROVED BY:	PROJ ENG: I. HANIF
		SCALE: AS SHOWN

C103
SHEET
5 OF 8





PRV VAULT DETAIL

NOT TO SCALE

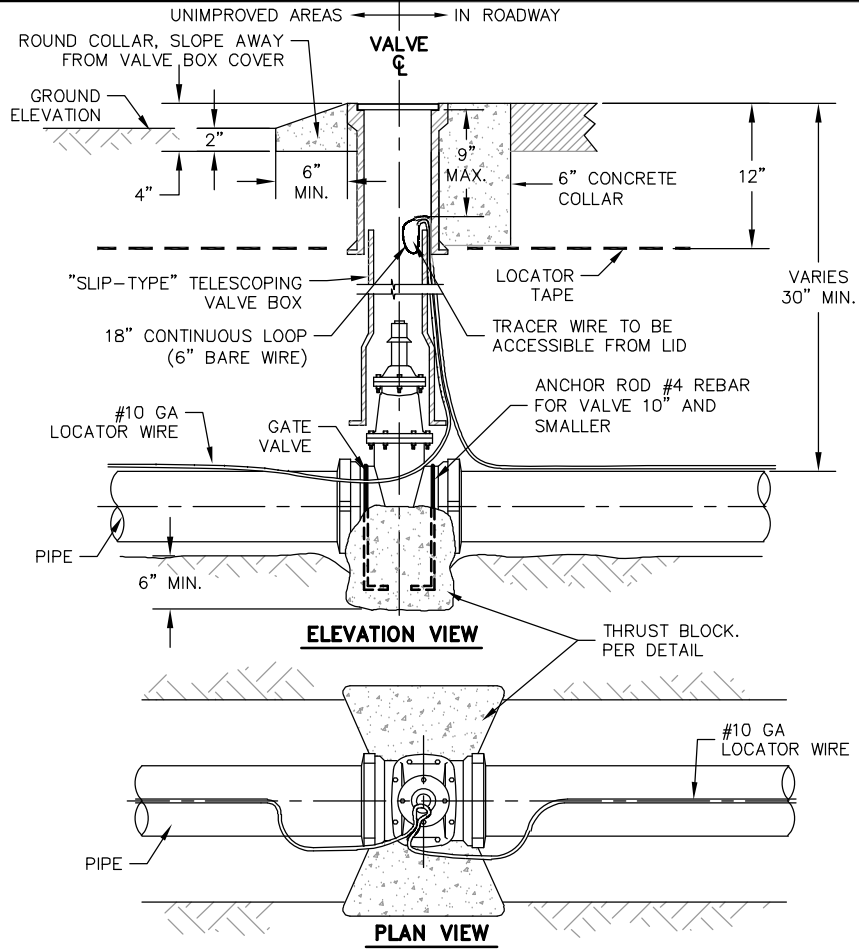


CHECK VALVE AND BOX DETAIL

NOT TO SCALE

C104
SHEET
6 OF 8

USER: jholden FILE: Q:\District Offices\RDO\A. SFC Main Files\Susanville\Ca 23-149 UpperRanchWaterMain\ACAD\Susanville_CA23-149.dwg 5/07/2025 - 12:06pm



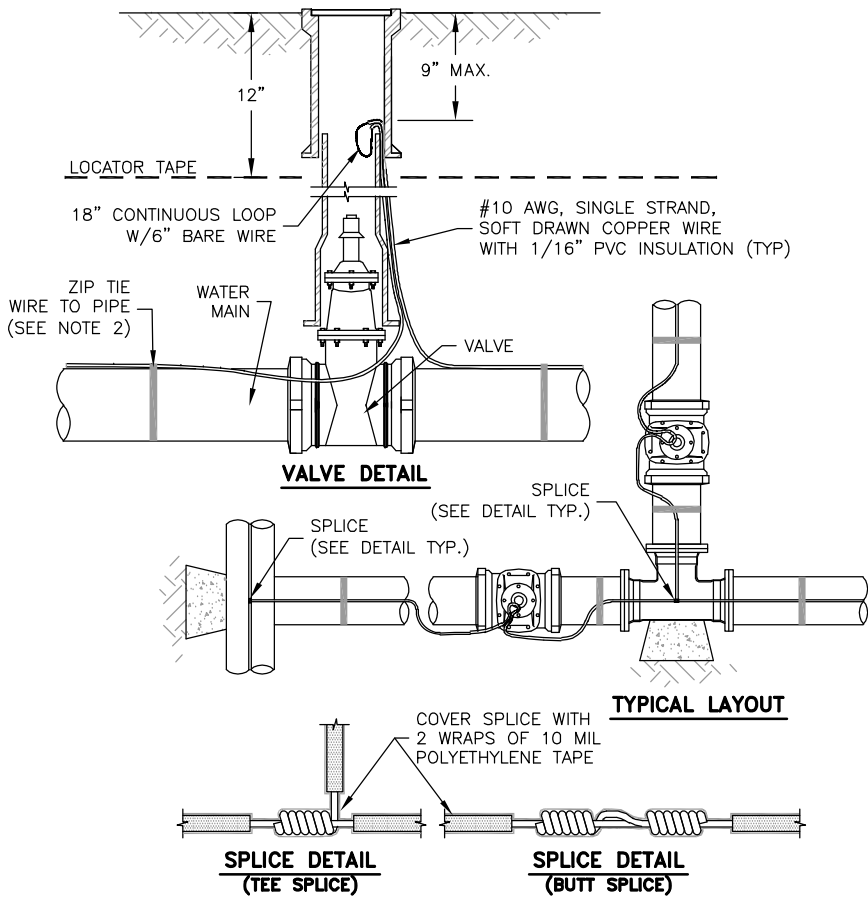
NOTES:

1. THRUST BLOCK DIMENSIONS PER THRUST BLOCK TABLE DETAIL.
2. INSTALLED IN PAVED ROADWAY, CONCRETE PAD SHALL BE FLUSH WITH PAVEMENT.
3. ALL CONCRETE COLLARS TO BE A MINIMUM OF 18" ROUND X 12" DEPTH REINFORCED W/#4 REBAR LOOP IF INSTALLED IN ROADWAYS AND 1" MAXIMUM ABOVE FINISHED SURFACE.
4. ALL CONCRETE COLLARS TO BE A MINIMUM OF 18" ROUND X 4" DEPTH REINFORCED W/#4 REBAR LOOP NOT INSTALLED IN ROADWAYS AND 2" MAXIMUM ABOVE FINISHED SURFACE.
5. VALVE BOX AND RISER SHALL BE SET PLUMB AND CENTERED OVER WATER VALVE NUT.
6. LIDS SHALL BE LABELED WITH CAST OR BEAD WELDED LETTERS: "WATER" FOR POTABLE, "RAW WATER" FOR RAW WATER.

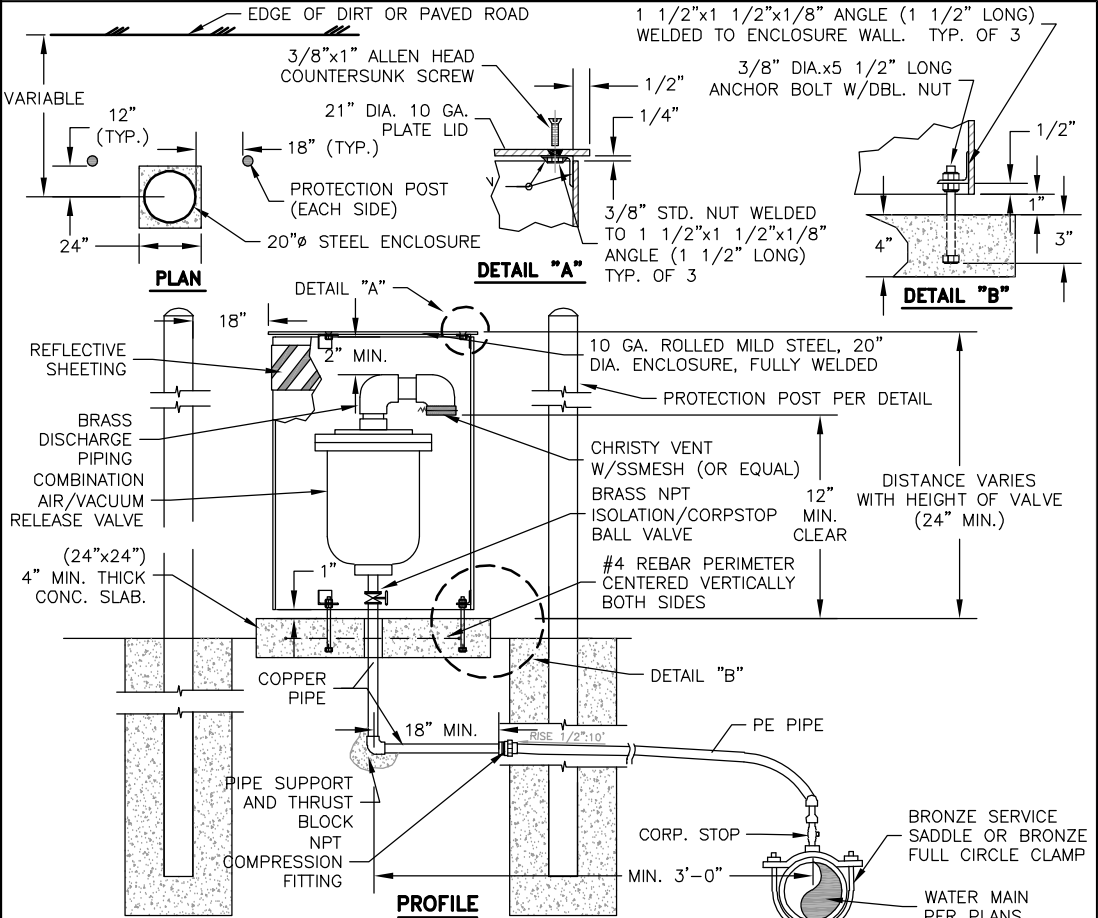
1 VALVE & VALVE BOX DETAIL
C105 NOT TO SCALE

NOTES:

1. WIRE SHALL BE CONTINUOUS, EXCEPT WHERE SPLICES ARE REQUIRED AT TEES, CROSSES, AND CONNECTIONS TO EXISTING LOCATING WIRES.
2. LOCATING WIRE SHALL BE LAID ON TOP OF THE PIPE, AND SHALL BE ZIP-TIED TO IT AT 10' INTERVALS AND AT ALL FITTINGS.
3. CONTINUITY TEST SHALL BE PERFORMED ON EACH SPlice PRIOR TO BACKFILL, AND ON THE FULL WIRE SYSTEM AFTER IT IS FINISHED.
4. ALL SPLICES SHALL BE SOLDERED AND TAPED.
5. DO NOT COVER TRACER WIRE WITH THRUST BLOCKS.



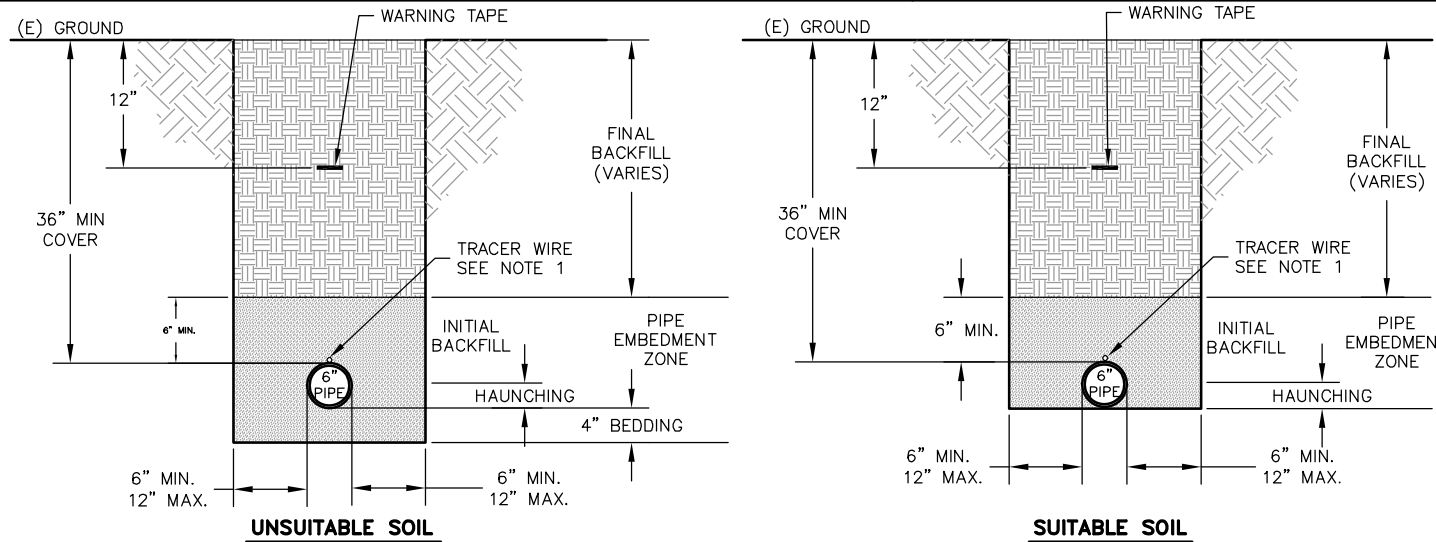
2 TRACER WIRE DETAIL
C105 NOT TO SCALE



NOTES:

1. ALL BOLTS, NUTS, ETC. TO BE GALVANIZED OR STAINLESS STEEL.
2. ALL METAL SURFACES NOT GALVANIZED SHALL BE PAINTED WITH POWDER COAT PAINT (COLOR TO MATCH EXISTING FACILITIES).
3. PLACE PVC PIPE SLEEVE THROUGH SLAB. PIPE SLEEVE SIZE SHALL BE 1/2" LARGER THAN RISER. SEAL WITH EXPANDING FOAM.
4. PROVIDE CONCRETE SUPPORT OF ADEQUATE SIZE TO SUPPORT WEIGHT OF AIR VALVE.
5. ENCLOSURE DESIGN IS FOR 1" THROUGH 4" VALVES. FOR 6" OR LARGER, ENCLOSURE MUST BE ENLARGED TO ACCOMMODATE LARGER VALVES.
6. REFLECTIVE SHEETING SHALL BE INSTALLED AT TOP OF EXTERIOR SIDEWALL. WRAP SHEETING 360° AROUND ENCLOSURE.
7. ALL ABOVE GRADE PIPING AND COMBINATION AIR VALVE SHALL BE WRAPPED WITH ADEQUATE PIPE INSULATION TO PREVENT FREEZING. METHOD SHALL REQUIRE PRIOR APPROVAL.
8. PIPE AND FITTING DIAMETER TO MATCH AIR VALVE DIAMETER.

3 COMBINATION AIR VALVE INSTALLATION
C105 NOT TO SCALE



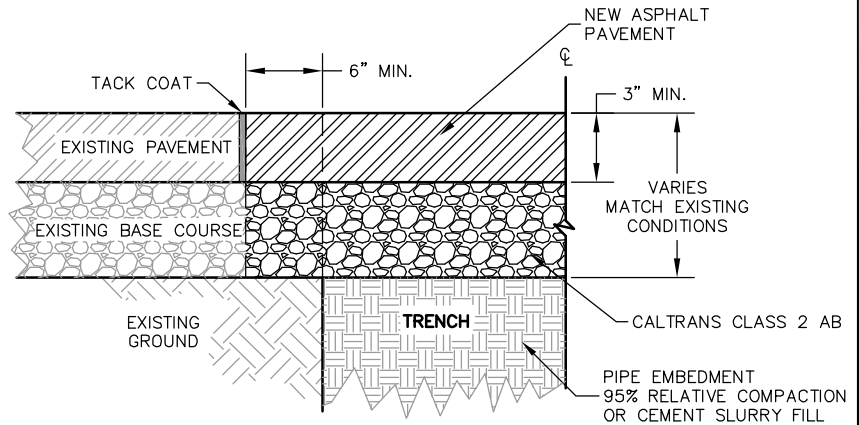
4 STANDARD TRENCH DETAIL
C105 NOT TO SCALE

NOTES:

1. USE 10 GA TRACER WIRE. SECURE TO TOP OF PIPE WITH ZIP TIES EVERY 10 FEET.
2. MINIMUM VERTICAL CLEARANCE OF TWELVE INCHES (12 INCHES) SHALL BE MAINTAINED BETWEEN THE PROPOSED WATER MAIN AND EXISTING UNDERGROUND UTILITIES.
3. MINIMUM VERTICAL CLEARANCE OF TWENTY-FOUR INCHES (24 INCHES) SHALL BE MAINTAINED BETWEEN THE PROPOSED WATER MAIN AND ANY DRAINAGE FACILITIES (INCLUDING, BUT NOT LIMITED TO DRAINAGE DITCHES, DRAINAGE INLETS, UNDERDRAINS AND CULVERTS). IF LESS THAN 24 INCHES IS NECESSARY, APPROVAL MUST BE OBTAINED FROM THE PROJECT ENGINEER AND THE WATER MAIN SHALL BE ENCASED IN STEEL CONDUIT OR CONCRETE CASING EXTENDING TEN FEET (10 FEET) EACH SIDE OF THE DRAINAGE FACILITY.
4. UNSUITABLE MATERIAL IS DEFINED AS INCAPABLE OF BEING COMPACTED TO SPECIFIED DENSITY WITH OPTIMUM MOISTURE CONTENT, SOLID OR LOOSE ROCK, LUMP MATERIAL LARGER THAN 1-INCH, ORGANIC MATTER, OR DEBRIS AS DEFINED IN STANDARD SPECIFICATIONS.

NOTES:

1. CUTS SHALL BE MADE WITH A CUTTING WHEEL OR A PNEUMATIC PAVEMENT CUTTER
2. PAVEMENT CUTS SHALL BE CLEAN, VERTICAL & STRAIGHT
3. IRREGULAR BREAKAGES SHALL BE REPLACED
4. SEE PLAN FOR LIMITS OF PAVEMENT REMOVAL



5 PAVEMENT CUT DETAIL
C105 NOT TO SCALE

INIT.	
REVISIONS	
DATE	
<div>REGISTERED PROFESSIONAL ENGINEER JILLIAN GAYHEART TILLES No. 76433 EXP. 07/10/2025 STATE OF CALIF. CIVIL</div>	
<div>CALIFORNIA AREA OFFICE OFFICE OF ENVIRONMENTAL HEALTH & ENGINEERING</div>	
<div>SANITATION FACILITIES CONSTRUCTION 650 CAPITAL MALL, SUITE 7-100 SACRAMENTO, CA 95814 (916) 930-3981</div>	
<div>DETAILS SUSANVILLE INDIAN RANCHERIA UPPER RANCHERIA WATER MAIN PUBLIC LAW 86-121 CA23-149</div>	
DRAWN BY:	J. HOLDEN
CHECKED BY:	J. TILLES
APPROVED BY:	PROJ. ENG. L. HANIF
FILE NAME: SUSANVILLE_CA23-149	
LAYOUT NAME: C105	
SCALE: N.T.S.	
C105	
7	OF 8

