

**NORTH**  
 1" = 500'

COORDINATE SYSTEM:  
 CALIFORNIA STATE PLANE, ZONE II,  
 NAD83, U.S. SURVEY FEET

SOURCES:  
 - HYDROS ENGINEERING  
 - PLACER COUNTY GIS DATA

Figure 7 - Proposed Alignment

Figures for concept only, further work with property owners, environmental review, and surveyors needed before project can be considered for approval.



CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT  
PLACER COUNTY, CALIFORNIA

CONTRACT DRAWINGS FOR

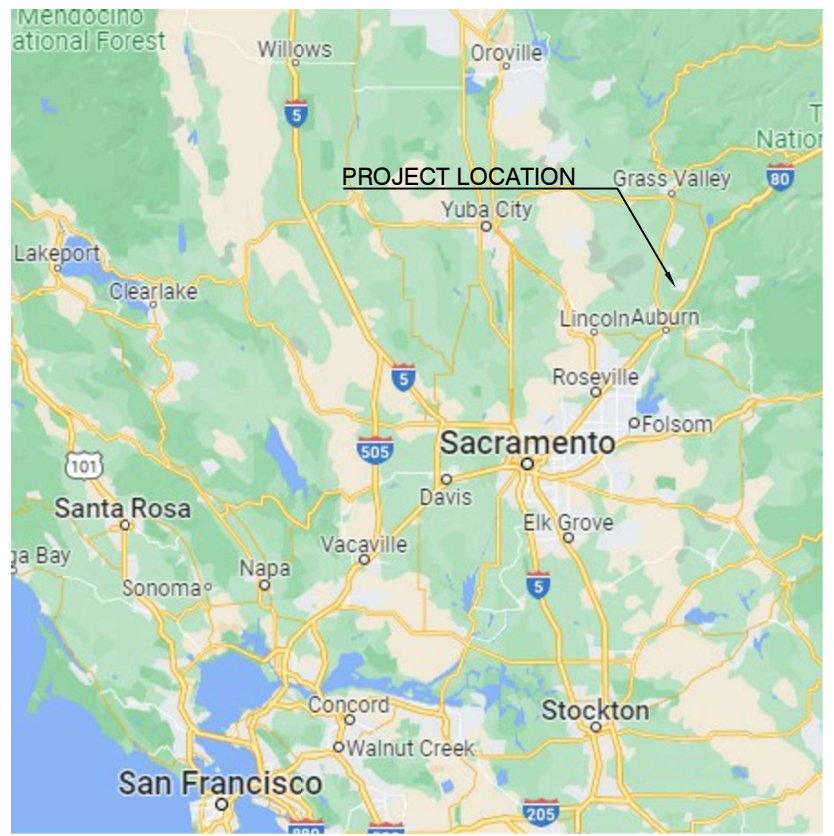
**KENNETH LOOP WATER  
PIPELINE PROJECT**

JULY 2024



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	APP	CITY	DATE



VICINITY MAP

# CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT PLACER COUNTY, CALIFORNIA

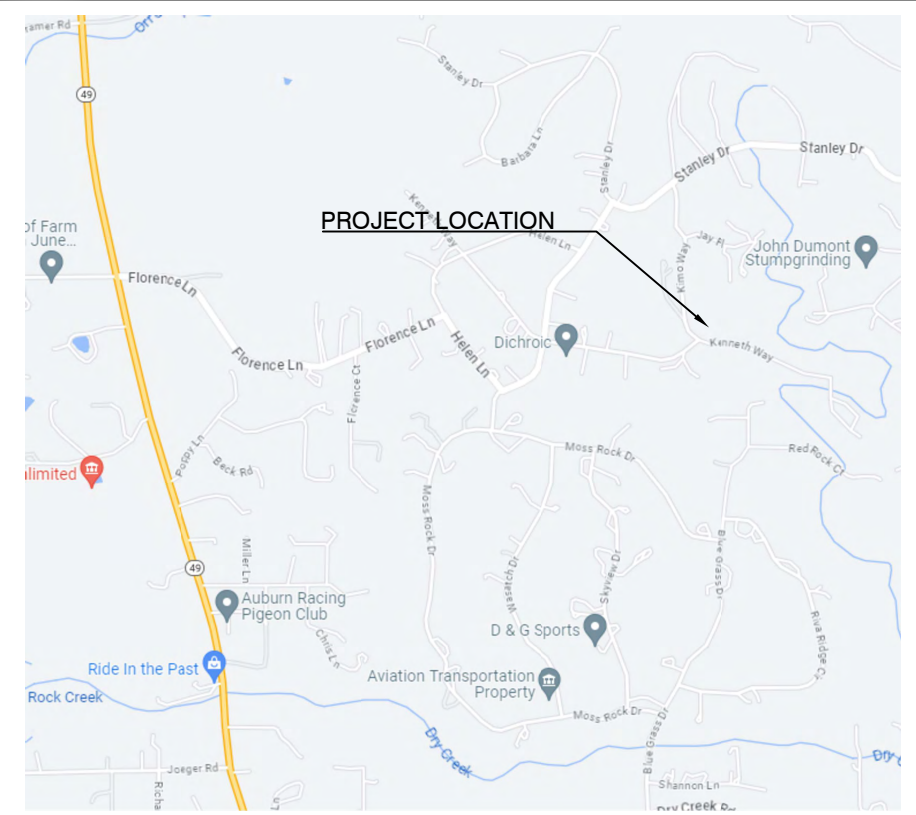
CONTRACT DRAWINGS FOR

# KENNETH LOOP WATER PIPELINE PROJECT

JANUARY 2024

INDEX OF DRAWINGS

SHEET NO.	DWG. NO.	TITLE	SHEET NO.	DWG. NO.	TITLE
1	G001	PROJECT TITLE, VICINITY AND LOCATION MAP AND INDEX OF DRAWINGS	9	C005	NID CANAL CROSSING 1 (a)
2	G002	ABBREVIATIONS, LEGENDS, PIPING SYSTEMS AND SYMBOLS	10	C006	PRESSURE REDUCING STATION DETAIL
3	G003	PLACER COUNTY GENERAL NOTES AND TRAFFIC CONTROL PLAN	11	C007	PIPING PLAN STA 0+00 to 5+00
4	G004	KEY MAP AND GENERAL PROJECT NOTES	12	C008	PIPING PLAN STA 5+00 to 12+00
5	C001	TYPICAL CIVIL DETAILS 1	13	C009	PIPING PLAN STA 12+00 to 17+00
6	C002	TYPICAL CIVIL DETAILS 2	14	C010	PIPING PLAN STA 17+00 to 23+00
7	C003	TYPICAL POINT OF CONNECTION DETAILS	15	C011	PIPING PLAN STA 13+00 to 29+00
8	C004	TREE REMOVAL PLAN	16	C012	PIPING PLAN STA 29+00 to 34+00
			17	C013	PIPING PLAN STA 34+00 to 36+00



LOCATION MAP

APPROVED: \_\_\_\_\_  
Dan Negus Board President

SUBMITTED: \_\_\_\_\_  
Gerry LaBudde Project Manager/Engineer



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	APP	CITY	DATE

**PIPING SYMBOLS**

	AIR RELEASE VALVE		PLUG VALVE
	AIR & VACUUM VALVE		BALL VALVE
	COMBINATION AIR VALVE		GLOBE VALVE
	KNIFE GATE VALVE		ANGLE VALVE
	GATE VALVE		BUTTERFLY VALVE
	CHECK VALVE		NEEDLE VALVE
	SPLIT DISK CHECK VALVE		UNION
	SOLENOID VALVE		REDUCER
	MOTOR OPERATED VALVE		STRAINER
	PRESSURE REDUCING VALVE		CLEANOUT
	BACK-FLOW PREVENTER		HOSE VALVE
	DIAPHRAGM/PINCH VALVE		FIRE OR WHARF HYDRANT
	PRESSURE RELIEF VALVE		BLOW OFF VALVE
	PRESSURE GAUGE OR SWITCH		WATER METER
	PRESSURE RELIEF VALVE PLASTIC		FLANGE X MJ ADAPTOR
	MECHANICAL JOINT OR BELL & SPIGOT FITTING		GROOVED COUPLING
	FLANGED FITTING		WALL SLEEVE
	FLANGED COUPLING ADAPTER		BELL RING PENETRATION
	FLEXIBLE COUPLING		

**GATE & VALVE ABBREVIATIONS**

ARV	AIR RELEASE VALVE
ASV	ANGLE STOP VALVE
AVV	AIR AND VACUUM VALVE
BCV	BALL CHECK VALVE
BFV	BUTTERFLY VALVE
BOV	BLOW-OFF VALVE
BV	BALL VALVE
CAV	COMBINATION AIR VALVE
CV	CHECK VALVE, CONTROL VALVE
CVG	CHECK VALVE GLOBE STYLE
EGS	EXISTING GROUND SURFACE
DV	DIAPHRAGM VALVE
FCV	FLEXIBLE CHECK VALVE
FG	FLAP GATE
FH	FIRE HYDRANT
FSCV	FLEXIBLE SWING CHECK VALVE
GLV	GLOBE VALVE
GTV	GATE VALVE
GTV & B	GATE VALVE & BOX
HGV	HOSE GATE VALVE
HOG	HYDRAULICALLY OPERATED GATE
HV	HOSE VALVE
KG	KNIFE GATE
LV	LINE VALVE
MBV	MOTORIZED BALL VALVE
MOG	MOTORIZED OPERATED GATE
MOV	MOTORIZED OPERATED VALVE
MV	MUD VALVE
MWR	MOTORIZED WEIR
NV	NEEDLE VALVE
PARV	PLASTIC AIR RELEASE VALVE
PBV	PLASTIC BALL VALVE
PCHV	PINCH VALVE
PCV	PLASTIC CHECK VALVE
PH	POST HYDRANT
PRFV	PRESSURE RELIEF VALVE
PRV	PRESSURE REGULATING (REDUCING) VALVE
PRVP	PRESSURE RELIEF VALVE (PLASTIC)
PV	PLUG VALVE
RV	RELIEF VALVE
SARV	SEWAGE AIR RELEASE VALVE
SAVV	SEWAGE AIR AND VACUUM VALVE
SCAV	SEWAGE COMBINATION AIR VALVE
SCV	SPLIT DISK CHECK VALVE
SSG	SLUICE GATE
SLG	SLIDE GATE
SOLV	SOLENOID VALVE
STP	STOP PLATE
TV	THERMOSTATIC VALVE
VB	VACCUM BREAKER OR VALVE BOX

**PIPING SPECIALTIES**

ADPTR	ADAPTER
BF	BLIND FLANGE
CMPDG	COMPOUND GAUGE
CO	CLEANOUT
CONN	CONNECTION
COTG	CLEANOUT TO GRADE
CPLG	COUPLING
CREJ	CORRUGATED RUBBER EXPANSION JOINT
DC	DOUBLE CONTAINMENT
DIP	DUCTILE IRON PIPE
DT	DRIP TRAP
ED	EQUIPMENT DRAIN
ECC	ECCENTRIC
ELB	ELBOW
FC	FLEXIBLE COUPLING
FCA	FLEXIBLE COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLG	FLANGE(D)
FM	FORCE MAIN
FRC	FLEX RUBBER COUPLING
GA	GAUGE
GC	GROOVED COUPLING
GSKT	GASKET
HGR	HANGER
IT	INSTRUMENT TAP
LR	LONG RADIUS
MA	MALE ADAPTER
MH	MANHOLE
MJ	MECHANICAL JOINT
NFYD	NON FREEZE YARD DRAIN
NFYH	NON FREEZE YARD HYDRANT
PE	PLAIN END
PG	PRESSURE GAUGE
PP	PIPE PENETRATION
PS	PIPE SUPPORT, PRESSURE SWITCH
PSL	PIPE SLEEVE
PVC	POLYVINYL CHLORIDE
QCPLG	QUIK COUPLING
RAD	RADIUS
RED	REDUCER
SOC	SOCKET
STR	STRAINER
UN	UNION
VB	VALVE BOX
VG	VALVE GAUGE
VSW	VACUUM SWITCH
VTR	VENT TROUGH ROOF
WCO	WALL CLEANOUT
YCO	YARD CLEANOUT

**PIPING SYSTEM ABBREVIATIONS**

C	CONDUIT
D	DRAIN
RW	RAW WATER
V	VENT

**GENERAL ABBREVIATIONS**

APPROX CONC	APPROXIMATE CONCRETE ELEVATION
EL	EDGE OF PAVEMENT
EP	EXISTING GROUND SURFACE
EGS	EXISTING GROUND SURFACE
FL	FLOW LINE
IE	INVERT ELEVATION
OD	OUTSIDE DIAMETER
OH	OVERHEAD CABLE OR POWER LINE(S)
TB	THRUST BLOCK
AC	ASPHALT CONCRETE

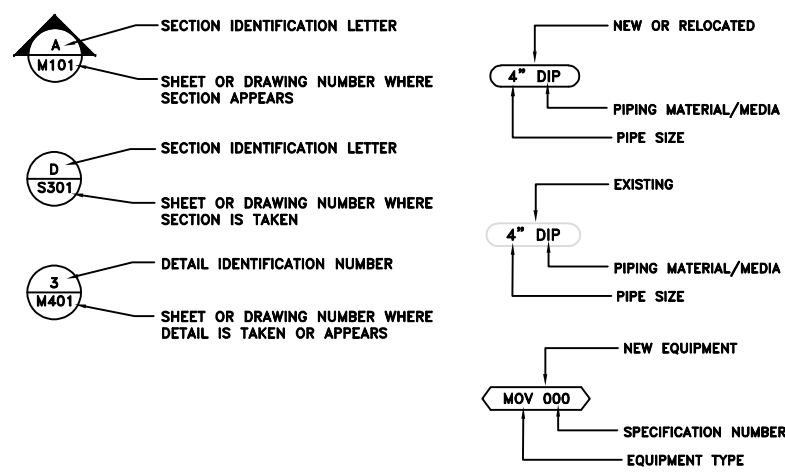
**DRAWING NUMBERING SYSTEM**

- THE DRAWINGS ARE SUBDIVIDED INTO BROAD TRADE SECTIONS AND HAVE THE FOLLOWING PREFIXES TO THEIR NUMBERS ACCORDING TO CATEGORY AND ARE BOUND IN THE FOLLOWING ORDER.
  - G GENERAL
  - C CIVIL
  - A ARCHITECTURAL
  - S STRUCTURAL
  - M MECHANICAL
  - E ELECTRICAL
  - I INSTRUMENTATION

**LEGEND**

	EXISTING EDGE OF PAVEMENT
	NEW FACILITIES
	EXISTING FACILITIES
	FUTURE FACILITIES
	NEW FENCE
	EXISTING FENCE
	NEW CONTOUR
	EXISTING CONTOUR
	NEW EMBANKMENT
	EXISTING PIPE OR STRUCTURE TO BE ABANDONED OR REMOVED
	NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION
	TREE & TRUNK DIAMETER
	TREE TO BE REMOVED
	NEW MANHOLE STATION
	INVERT ELEVATION (PROFILE)
	SLOPE OF NEW PIPE (PROFILE)
	HORIZONTAL LENGTH AND SIZE OF NEW PIPE
	NEW MANHOLE & PIPELINE (GRAVITY)
	NEW PIPELINE (PRESSURE)
	EXISTING MANHOLE & PIPELINE
	FUTURE MANHOLE & PIPELINE
	EXISTING WATER, SEWER WITH SIZE
	EXISTING ELECTRICAL OR TELEPHONE
	EXISTING UNDERGROUND SERVICE (TYPE NOTED)
	EXISTING POWER POLE
	PUBLIC UTILITY EASEMENT(PUE) OR RIGHT OF WAY(ROW)
	PROPERTY LINE RIGHT OF WAY
	FUTURE RIGHT OF WAY
	EASEMENT
	CONCRETE LINED DITCH
	CONCRETE CURB & GUTTER
	DRAINAGE SWALE
	CONCRETE V-GUTTER
	COBBLE LINED CHANNEL
	CREEK, DITCH OR STREAM

**CALLOUT SYMBOLS**



**HATCHING LEGEND**

	EXISTING A.C. PAVING		NEW CONCRETE
	A.C. PAVING		EXISTING GRADE
	AGGREGATE BASE		

NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS APPEARING ON THIS SHEET ARE USED IN THESE DOCUMENTS



NOT FOR CONSTRUCTION



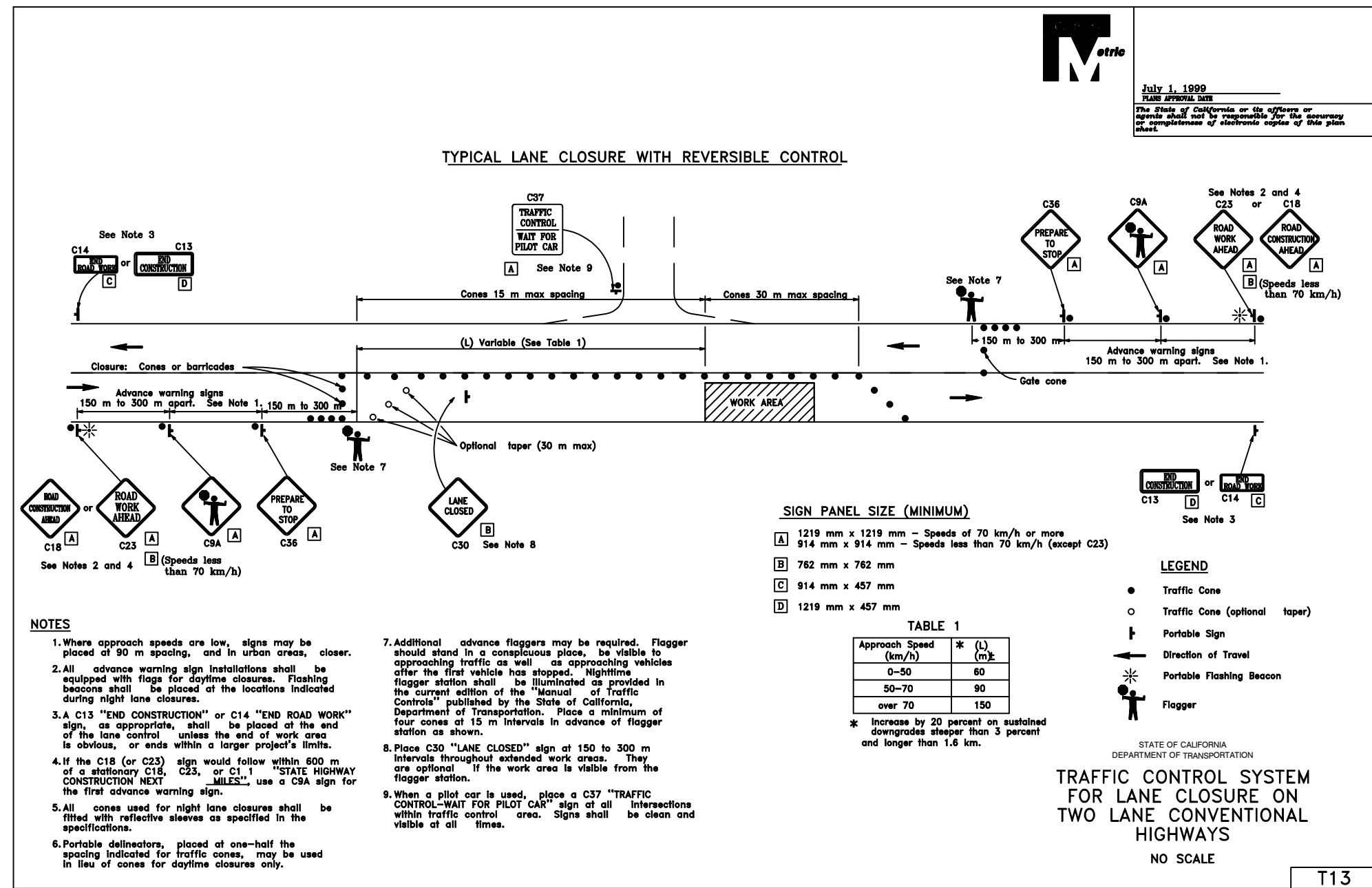
**PLACER COUNTY GENERAL NOTES:**

- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF COUNTY OF PLACER GENERAL SPECIFICATIONS DATED OCTOBER, 1996. ALL REFERENCES TO STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SHALL REFER TO THE JULY, 2002 EDITION OF THE STANDARD SPECIFICATIONS. ATTENTION IS ALSO DIRECTED TO THE STANDARD DRAWINGS CONTAINED IN THE PLACER COUNTY LAND DEVELOPMENT MANUAL AND THE CURRENT EDITION OF THE CALTRANS STANDARD PLANS, WHICH, WHEN APPLICABLE, ARE INCLUDED IN THESE DRAWINGS AND REFERENCED BY PLATE OR STANDARD PLAN NUMBER.
- COUNTY, DEPARTMENT OR ENGINEER, AS USED ON THESE PLANS AND NOTES, REFERS TO THE DIRECTOR OF THE PLACER COUNTY DEPARTMENT OF PUBLIC WORKS OR AN AUTHORIZED AGENT APPOINTED BY THE DIRECTOR.
- PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY REQUIREMENTS AND AS DIRECTED BY THE ENGINEER. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
- ALL FIELD STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR. THE OWNER SHALL PROVIDE ONE SET OF CONSTRUCTION CONTROL STAKES; ANY ADDITIONAL STAKING NECESSARY SHALL BE PROVIDED BY THE ENGINEER/SURVEYOR AT THE EXPENSE OF THE CONTRACTOR. ALL STAKING SHALL BE DONE PER SECTION 5-1.07 PLACER COUNTY GENERAL SPECIFICATIONS.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF ALL UNDERGROUND FACILITIES WHERE SUCH FACILITIES MAY POSSIBLE CONFLICT WITH THE PLACEMENT OF THE IMPROVEMENTS SHOWN ON THESE PLANS. CALL "UNDERGROUND SERVICE ALERT" AT 800-642-2444 (2) DAYS MINIMUM TO FOURTEEN (14) DAYS MAXIMUM BEFORE ANY EXCAVATION IS STARTED.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- ALL A.C. SURFACES SHALL BE SAW CUT ONE FOOT MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED EDGE SHALL BE SEALED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND RESEALED PRIOR TO PAVING.
- CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER SECTION 10, CALTRANS STANDARD SPECIFICATIONS.
- NO CONSTRUCTION SHALL BE DONE BETWEEN OCTOBER 15 AND MAY 1, WITHOUT A COUNTY APPROVED SEDIMENT AND EROSION CONTROL PLAN TO PREVENT SOIL EROSION. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS CONTAINED IN THE "EROSION AND SEDIMENT CONTROL GUIDELINES FOR DEVELOPING AREAS OF THE SIERRAS", OCTOBER, 1991.
- INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SIGNIFICANT EROSION AND SILTATION ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. WINTERIZATION AND EROSION CONTROL SHOWN ON THESE PLANS IS INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS.
- AFTER STRIPPING THE DEBRIS, ANY EXISTING LOOSE FILL, UNSUITABLE SOIL, SILTY SAND DEPOSITS, OR DISTURBED NATURAL SOILS SHALL BE EXCAVATED AND PROPERLY DISPOSED OF TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE ALL ROAD MARKINGS, PAVEMENT MARKERS, AND OTHER DELINEATION THAT ARE IN CONFLICT WITH THE DELINEATION SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL LAYOUT ALL PAVEMENT MARKINGS FOR APPROVAL BY THE ENGINEER. AFTER APPROVAL, THE CONTRACTOR SHALL APPLY ALL PAINTED MARKINGS AND THERMOPLASTIC PAVEMENT MARKINGS NECESSARY TO COMPLETE THE WORK.
- NOT USED.
- NOT USED.
- NOT USED.
- CONTRACTOR MUST IMMEDIATELY REINSTALL ANY TRAFFIC SIGNS REMOVED IN THE COURSE OF CONSTRUCTION. ANY SIGNS LOST OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- TEMPORARY TRAFFIC STRIPING MUST BE PROVIDED BY THE CONTRACTOR IF DELINEATION IS DESTROYED DURING TRENCHING OR OTHER WORK. PAINTED MARKINGS OR STRIPING TAPE MAY BE USED. THE TEMPORARY STRIPING MUST BE APPROVED FOR MATERIAL AND LAYOUT BY THE ENGINEER BEFORE TRENCHING OR OTHER WORK IS STARTED. ALL TEMPORARY PAINTED MARKINGS THAT ARE TO BE REMOVED SHALL BE SANDBLASTED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
- THE COUNTY MAY REQUIRE THE CONTRACTOR TO UNCOVER ANY IMPROVEMENTS THAT HAVE BEEN COMPLETED WITHOUT PROPER COUNTY INSPECTION AND/OR APPROVAL. IF THE INSTALLATION IS FOUND NOT TO MEET COUNTY STANDARDS OR PREVIOUSLY APPROVED ALTERNATIVES SHOWN ON THE PLANS, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE SUCH IMPROVEMENTS AT HIS EXPENSE.

- PRIOR TO ANY ACTIVITY OCCURRING WITHIN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL W20-1 (C23) SIGNS IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 AND THE MUTCD 2003 CALIFORNIA SUPPLEMENT. THE SIGNS SHALL BE PROFESSIONALLY MADE, METAL, REFLECTORIZED AND PLACED ON WOODEN POSTS FOR THE DURATION OF THE PROJECT. THE MINIMUM SIZE SHALL BE 36". THE SIGNS SHALL BE REPLACED OR REPAIRED IF STOLEN OR DAMAGED. THE PLACEMENT, TYPE AND LOCATION OF THE TRAFFIC CONTROL DEVICES SHALL BE REVIEWED AND APPROVED BY THE COUNTY INSPECTOR. THE INSPECTOR SHALL DIRECT THE INSTALLATION OR CHANGES TO SIGNS, STRIPING, CONES BARRICADES ETC. DURING THE COURSE OF CONSTRUCTION FOR TRAFFIC SAFETY.
- ONLY THE APPROXIMATE LOCATION OF THE EXISTING PIPING HAVE BEEN SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATION IN THE FIELD AND IMMEDIATELY NOTIFY THE PROJECT ENGINEER IF SAID LOCATION IS SIGNIFICANTLY DIFFERENT FROM THAT SHOWN ON THIS PLAN.
- ENGINEER SHALL CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION AND MATERIALS HAVE BEEN ACCOMPLISHED.

- NOT USED.
- TEMPORARY BENCHMARKS SHALL BE PROVIDED AS DEEMED NECESSARY PER FIELD COORDINATION BETWEEN THE ENGINEER/SURVEYOR AND THE CONTRACTOR. IN NO INSTANCE SHALL THE TEMPORARY BENCHMARKS BE SPACED MORE THAN 1000 FEET APART.
- STAGING OF CONSTRUCTION EQUIPMENT AND MATERIALS WILL NOT BE PERMITTED WITHIN PLACER COUNTY RIGHT OF WAY.
- TRAFFIC CONTROL SHALL BE PER CALTRANS STANDARD PLAN T13 (SEE THIS SHEET) AND SHALL PROVIDE AND MAINTAIN A MINIMUM OF ONE 10-FOOT SURFACED LANE, WITH TRAFFIC CONTROL, DURING WORKING HOURS. DURING NON-WORKING HOURS (SHUT-DOWNS, NIGHTS & WEEKENDS) TWO 10-FOOT SURFACED LANES SHALL BE PROVIDED. CONTRACTOR SHALL PLACE AND SECURE STEEL PLATES OVER TRENCH DURING NON-WORKING HOURS. NO MORE THAN 300 FEET OF LANE CLOSURE SHALL BE PERMITTED DURING WORKING HOURS. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED AT LEAST 48 HOURS PRIOR TO ANY WORK IN THE ROADWAY.

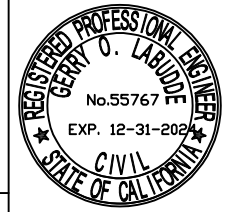
**TRAFFIC CONTROL PLAN:**



July 1, 1999  
 PLAN APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

1999 STD. PLAN T13

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 TWO LANE CONVENTIONAL  
 HIGHWAYS**  
 NO SCALE



T13

NOT FOR CONSTRUCTION

SCALE AS SHOWN	BAR IS ONE INCH AT FULL SCALE IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY	DATE JULY 2024 FILE CVPC21-001	DESIGNED GOL DRAWN TWA CHECKED FJF
-------------------	--	---	---

**CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT**  
 PLACER COUNTY, CALIFORNIA  
 KENNETH LOOP WATER PIPELINE PROJECT

**PLACER COUNTY  
 GENERAL NOTES AND  
 TRAFFIC CONTROL PLAN**

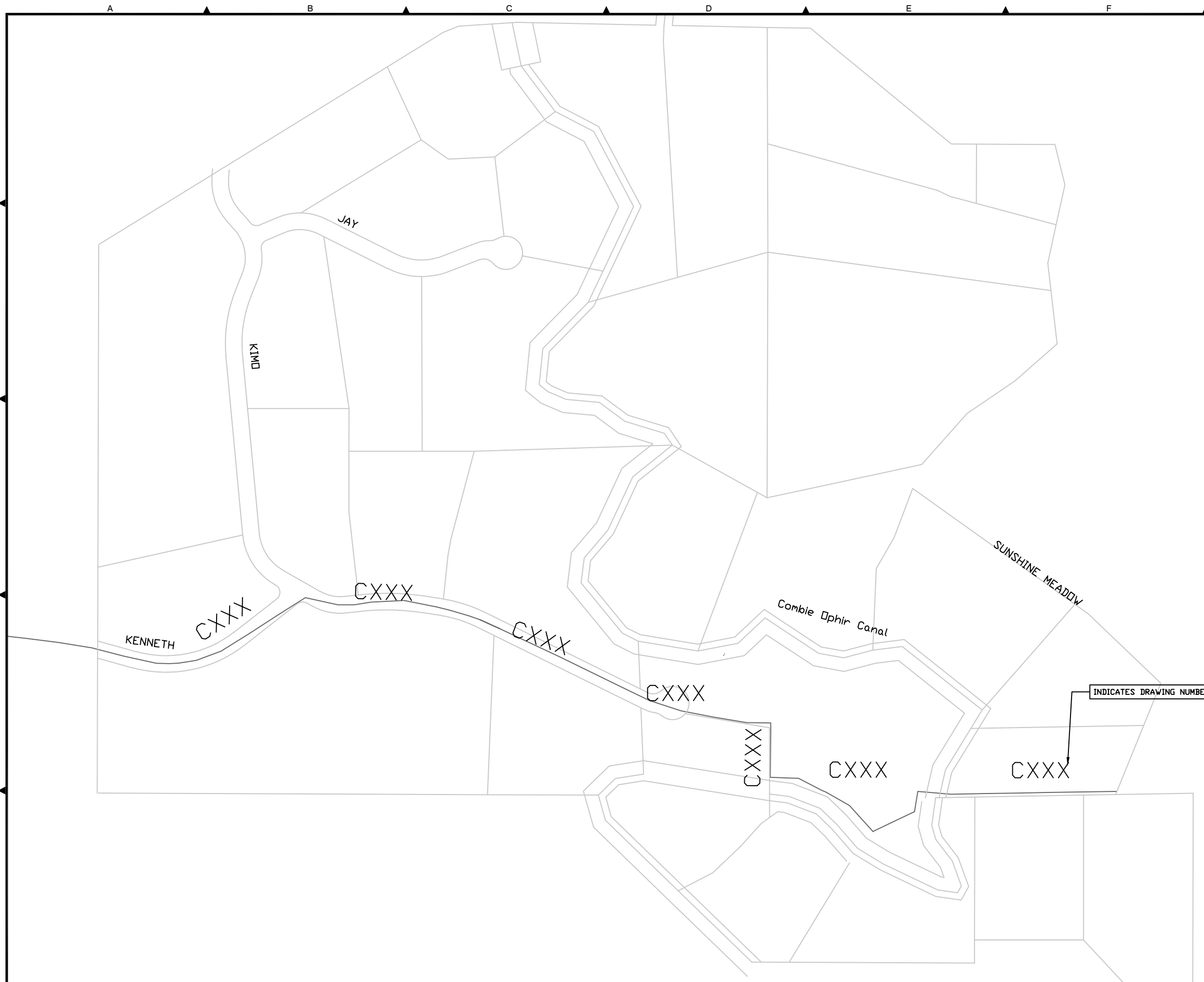
DRAWING NUMBER G003	SHEET NUMBER 3 OF 17
------------------------	-------------------------



REVISION	DESCRIPTION	BY	APP	CITY	DATE

**GENERAL NOTES**

1. THESE GENERAL NOTES APPLY TO ALL DRAWINGS. THE TYPE, SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND UTILITIES SHOWN ON IMPROVEMENT PLANS WERE OBTAINED FROM VARIOUS SOURCES. EFFORTS HAVE BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CANNOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND FACILITIES, WHICH MAY BE ENCOUNTERED BUT ARE NOT SHOWN ON THESE DRAWINGS. BEFORE BEGINNING ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT (1-800-227-2600) NOT LESS THAN 72 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION.
2. LOCATION OF PIPELINES SHOWN ON THE DRAWINGS ARE BASED ON SURVEY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PIPE FITTINGS (WHETHER OR NOT SHOWN ON THE DRAWINGS) TO PLACE THE ALIGNMENT OF THE PIPELINES AS CLOSE AS PRACTICABLE TO THAT SHOWN ON THE DRAWINGS.
3. PIPELINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN ON PLANS AND PROFILES. ALL PIPE ELEVATIONS SHOWN REFER TO INVERT UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE SHOWN ALL WATER PIPELINES SHALL HAVE A MINIMUM COVER OF 30 INCHES. WHERE THE INSTALLATION REQUIRES LESS COVER, DUCTILE IRON PIPE IRON PIPE MAY BE USED UPON OWNER APPROVAL.
5. DEFLECT JOINTS ON STANDARD FITTINGS OR ADJACENT PIPE JOINTS TO OBTAIN VERTICAL OR HORIZONTAL CURVES SHOWN ON THE DRAWINGS, NOT TO EXCEED 1/2 OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTIONS.
6. TRENCH PLATES ARE TO BE PLACED AT ALL OPEN TRENCHES, IN OR ADJACENT TO ROADWAYS, AT THE END OF EACH WORKING DAY. TRENCH PLATES ARE TO BE ANCHORED SECURELY AND ALL EDGES ARE TO BE FULLY COVERED WITH TEMPORARY ASPHALT. CONTRACTOR SHALL BACKFILL ALL TRENCHES WITH A MAXIMUM OF 20' TRENCH COVERED BY TRENCH PLATES
7. REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING AND LANDSCAPING DISTURBED BY CONSTRUCTION, UNLESS NOTED OTHERWISE.
8. REESTABLISH ANY DRAINAGE DITCHES TO ORIGINAL GRADE AND REMOVE DEBRIS.
9. EXCAVATED MATERIAL, DEBRIS, AND OTHER WASTE GENERATED DURING THE PROJECT SHALL BE OFF HAULED AND DISPOSED OF BY THE CONTRACTOR AT HIS COST. DISPOSAL OF EXCAVATED SOIL SHALL COMPLY WITH ALL STATE AND FEDERAL LAWS.
10. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION.
11. ALL DRIVEWAYS IMPACTED BY WORK SHALL BE RESTORED TO ORIGINAL CONDITION WITHIN 5 WORKING DAYS.
12. MAIL BOXES, ADDRESS SIGNS, ETC, NOT SHOWN ON DRAWINGS. CONTRACTOR TO REMOVE AND RESTORE DURING CONSTRUCTION.
13. SERVICE LOCATIONS ARE GENERALLY SHOWN AND WILL BE LOCATED DURING CONSTRUCTION.
14. ALL WORK SHALL BE CONDUCTED WITHIN THE PUE, ROWS AND EASEMENTS AS SHOWN ON THE DRAWINGS.

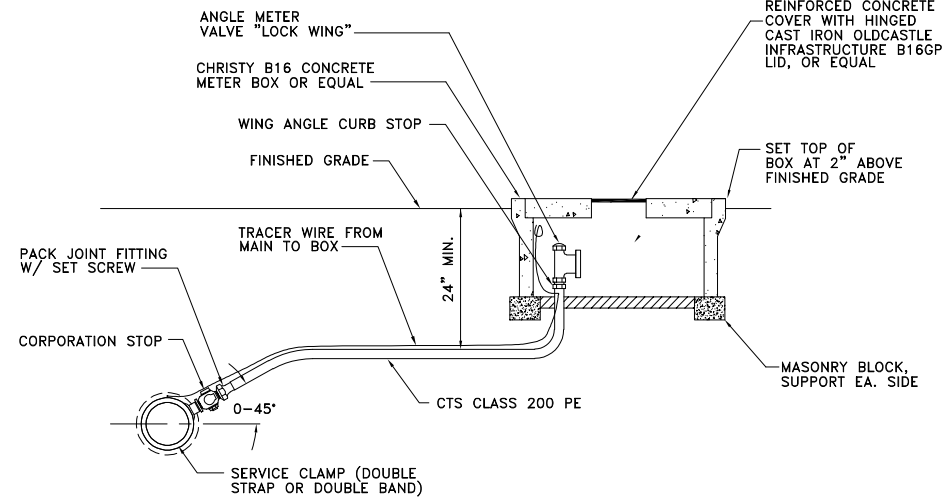


**NOT FOR CONSTRUCTION**



**GENERAL NOTES:**

- POLYETHYLENE PIPE - POLYETHYLENE (PE) PIPE FOR SERVICES, AIR VALVES, ETC. SHALL BE JM EAGLE SDR9 RATED FOR A MINIMUM PRESSURE OF 200 PSI, OR APPROVED EQUAL AND SIZED PER DRAWINGS. USE STAINLESS STEEL STIFFENERS ON ALL JOINTS. PIPE SHALL BE COPPER TUBE SIZED (CTS) ACCORDING TO DRAWINGS.
- SADDLES - SERVICE SADDLES SHALL BE CONSTRUCTED OF BRASS FOR C900 PIPE OR DIP AS NEEDED AND AS MANUFACTURED BY FORD METER BOX COMPANY, 202BSD-IP4 APPROPRIATE O.D. (IP THREAD), OR APPROVED EQUAL. OUTLET SIZE TO MATCH SERVICE LINE DIAMETER.
- CURB STOPS - CURB STOPS AS MANUFACTURED BY FORD METER BOX COMPANY, BA63-444W WITH PACKED JOINT INLET AND SWIVEL NUT.
- CORPORATION STOPS - CORPORATION STOPS SHALL BE BALL VALVE TYPE WITH MALE IRON PIPE INLET AND PACKED JOINT OUTLET WITH AN ALLOWABLE WORKING PRESSURE GREATER THAN 200 PSI. FORD BALLCORP FB1100, OR APPROVED EQUAL WHEN ADAPTING TO PE PIPE. USE FB1700 (MIP x FIP) OR FB500 (MIP x MIP), OR APPROVED EQUAL WHEN ADAPTING TO THREADED PIPE.
- METER BOXES - METER BOXES SHALL BE CONSTRUCTED FROM REINFORCED CONCRETE. EXTENSIONS PROVIDED AS NECESSARY TO BRING BOX TO GRADE. BOXES SHALL BE MANUFACTURED BY CHRISTY CONCRETE PRODUCTS:
  - A. BOX - MODEL B16
  - B. LID - MODEL B16G (CONCRETE LID WITH 5" x 8" SELF CLOSING READING LID WITH FRAME)
  - C. EXTENSIONS - MODEL
 OR APPROVED EQUAL.

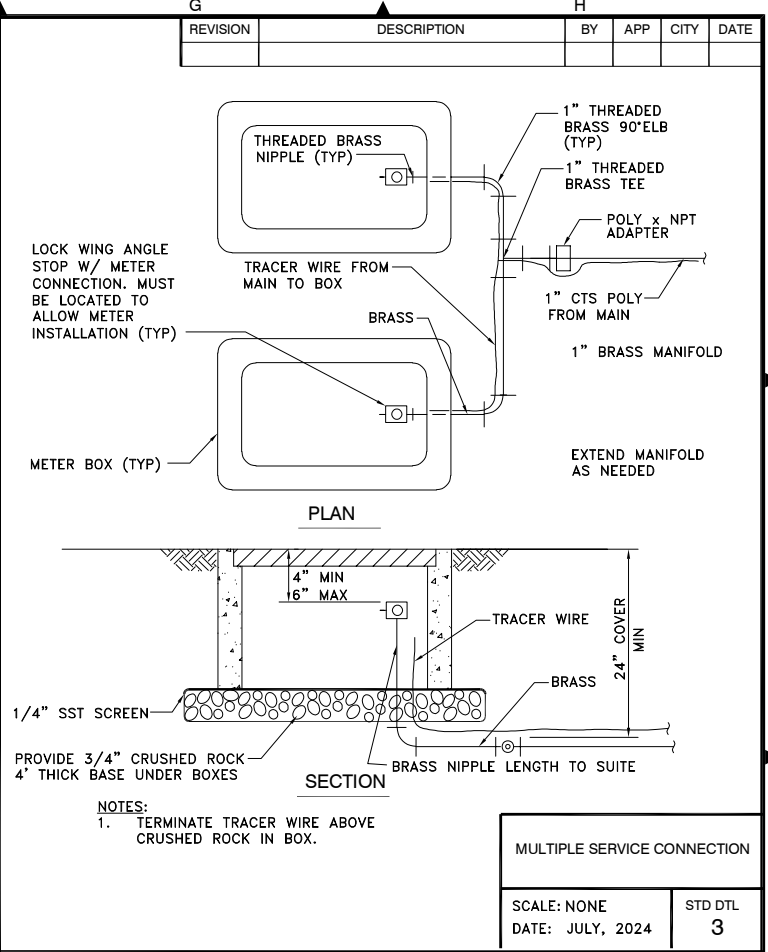


**NOTES:**

- SERVICE LINE SHALL BE 1" CTS CLASS 200 POLYETHYLENE.
- CORPORATION STOP SHALL BE M.I.P. BY PACK JOINT, "FORD" TYPE FB 1100 OR EQUAL.
- ANGLE STOP SHALL HAVE SWIVEL NUT AND LOCK WINGS.
- ANGLE STOP SHALL BE VERTICALLY PLUMBED.
- PROVIDE STEEL INSERTS ON ALL POLYETHYLENE CONNECTIONS.

SINGLE  
SERVICE CONNECTION

SCALE: NONE    STD DTL  
DATE: JULY, 2024    1



MULTIPLE SERVICE CONNECTION

SCALE: NONE    STD DTL  
DATE: JULY, 2024    3

**THRUST BLOCKS SCHEDULE**

PIPE DIA. (in.)	TEST PRESSURE (P.S.I.)	THRUST BLOCK BEARING AREA "A" (S.F.)			ANCHOR BLOCK VOL. OF CONCRETE (C.Y.)		
		90°	45°	22.5°	11.25°	TEE OR BULKHEAD	
8"	10	0.5	0.3	0.1	0.1	0.3	0.10
10"	10	0.8	0.4	0.2	0.1	0.5	0.16
12"	10	1.1	0.6	0.3	0.2	0.8	0.26
14"	10	1.5	0.8	0.4	0.2	1.1	0.36
16"	10	2.0	1.1	0.5	0.3	1.4	0.47
18"	10	2.5	1.4	0.7	0.3	1.8	0.60
20"	10	3.1	1.7	0.9	0.4	2.2	0.73
24"	10	4.4	2.4	1.2	0.6	3.1	1.00
30"	10	6.9	3.8	1.9	1.0	4.9	1.58
36"	10	10.0	5.4	2.8	1.4	7.1	2.30
42"	10	13.6	7.4	3.8	1.9	9.6	3.10

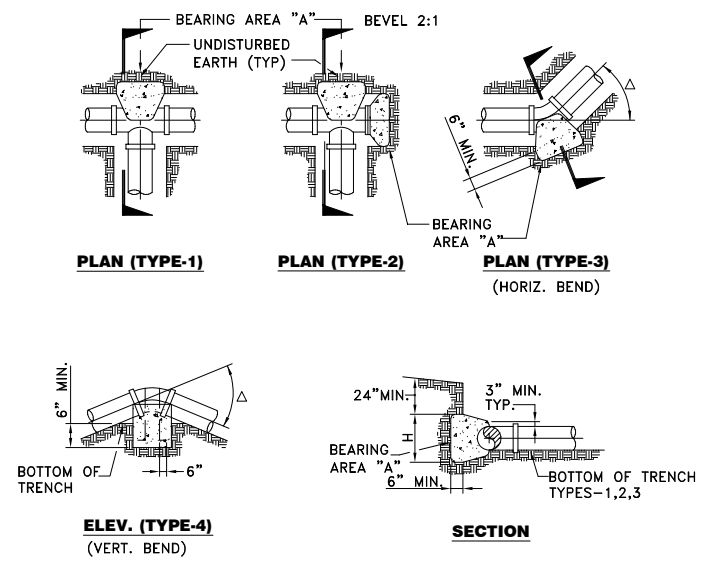
**REBAR SIZES**

PIPE SIZE	Δ	REBAR
6"-10"	0-90°	#5
12"-20"	0-225°	#5
24"	0-225°	#6
12"-20"	45°	#7
12"-16"	90°	#8

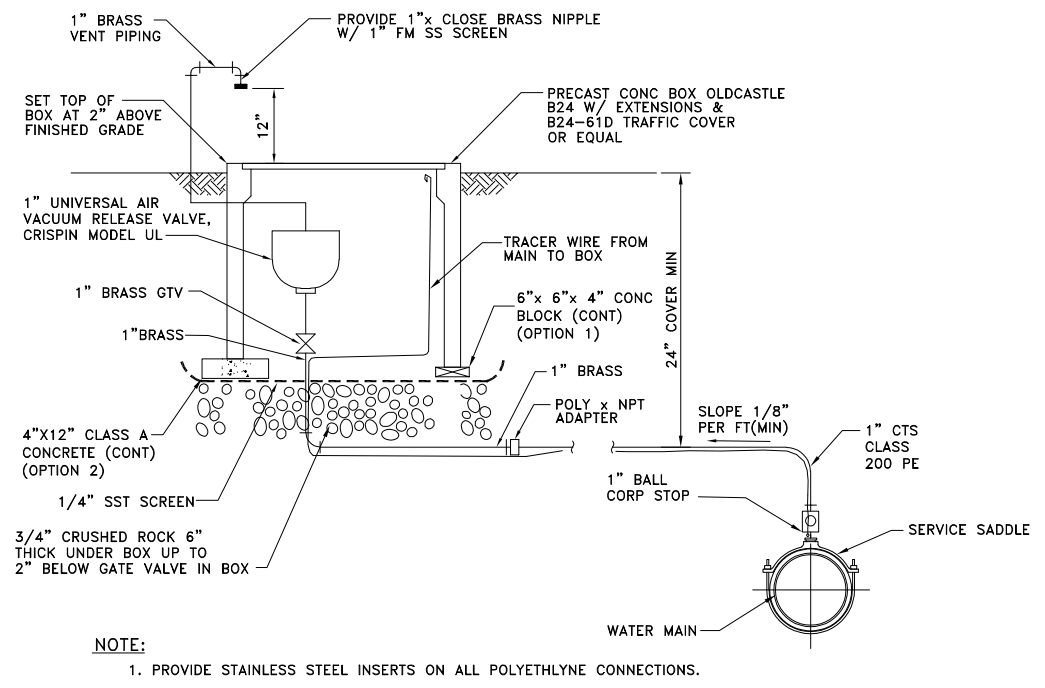
NOTE: COAT REBAR WITH TWO COATS OF KOPPERS 505, NEMEC 46-450, OR EQUAL, 15 MILS EA. COAT

TYPICAL THRUST BOLCK

SCALE: NONE    STD DTL  
DATE: JULY, 2024    5



- NOTES:**
- THRUST BLOCKS ARE ONLY ALLOWED AT LOCATIONS SPECIFIED BY PIPE SERVICE OR AS APPROVED BY THE ENGINEER. PIPE TEST PRESSURE LESS THAN OR EQUAL TO 10 psi DO NOT REQUIRE RESTRAINT, TEST PRESSURE GREATER THAN 10 psi REQUIRE RESTRAINT. AREAS GIVEN ARE FOR 10 psi, ADJUST AREAS ACCORDING TO TEST PRESSURE. SEE SPECIFICATION SECTION 15010.
  - BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
  - JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAN OF CONCRETE.

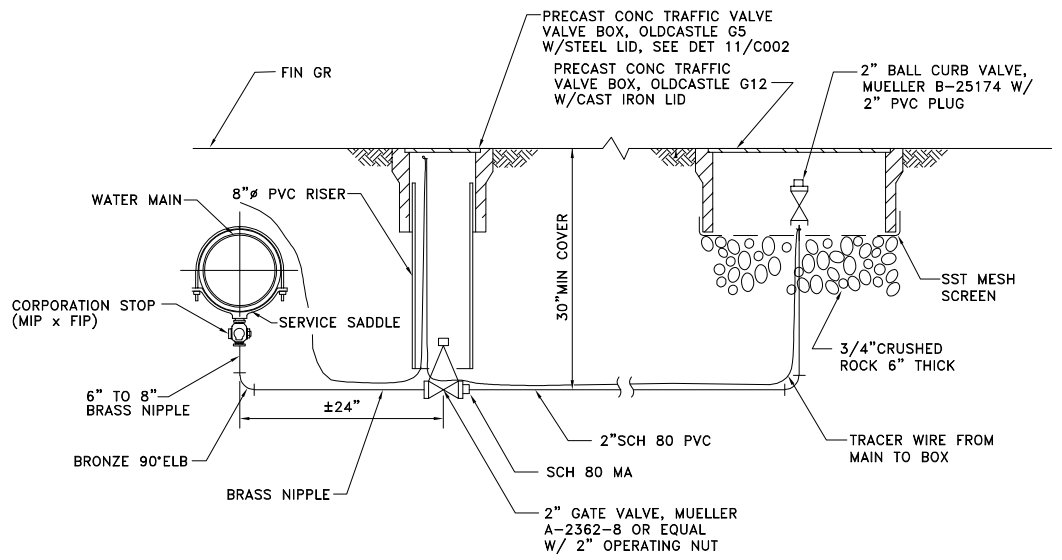


AIR RELEASE VALVE

SCALE: NONE    STD DTL  
DATE: JULY, 2024    6



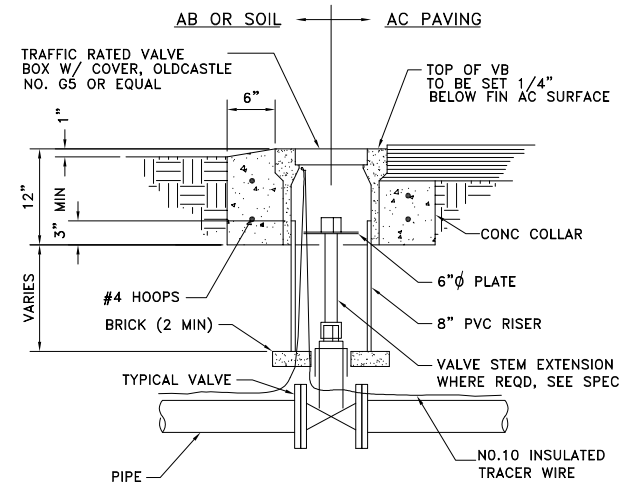
REVISION	DESCRIPTION	BY	APP	CITY	DATE



**2" DEAD END BLOWOFF**

SCALE: NONE  
DATE: JULY, 2024

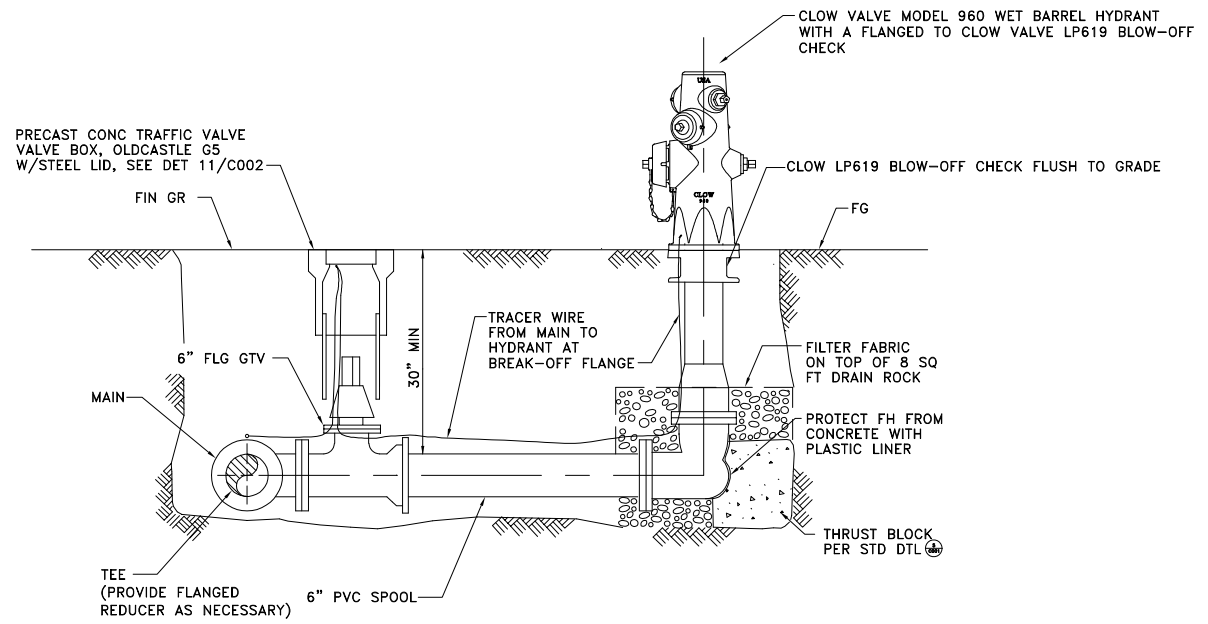
STD DTL  
**8**



**TYPICAL VALVE**

SCALE: NONE  
DATE: JULY, 2024

STD DTL  
**11**

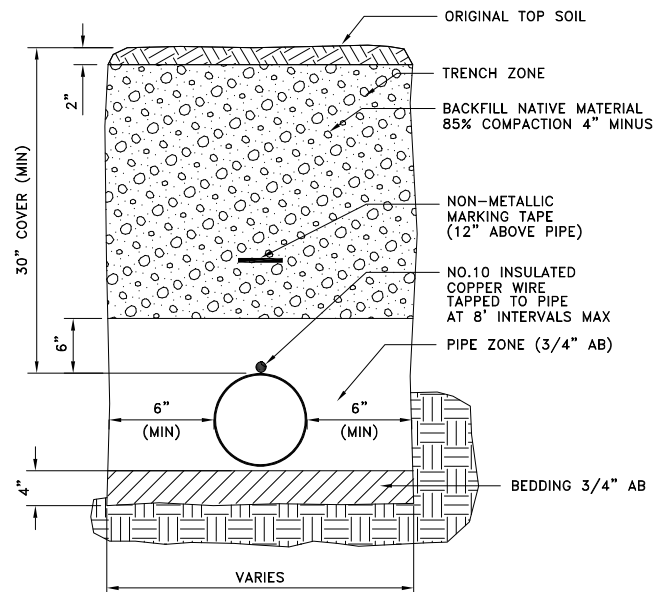


- NOTES:**
- HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
  - THE SAME MODEL AND COLOR HYDRANT SHALL BE USED THROUGHOUT ENTIRE PROJECT.
  - SEE DTLS 14 + 15 THIS SHEET FOR TRENCHING/BACKFILL MATERIAL
  - ASPHALT NOT SHOWN, REFER TO TRENCH DETAILS.

**FIRE HYDRANT**

SCALE: NONE  
DATE: JULY, 2024

STD DTL  
**13**

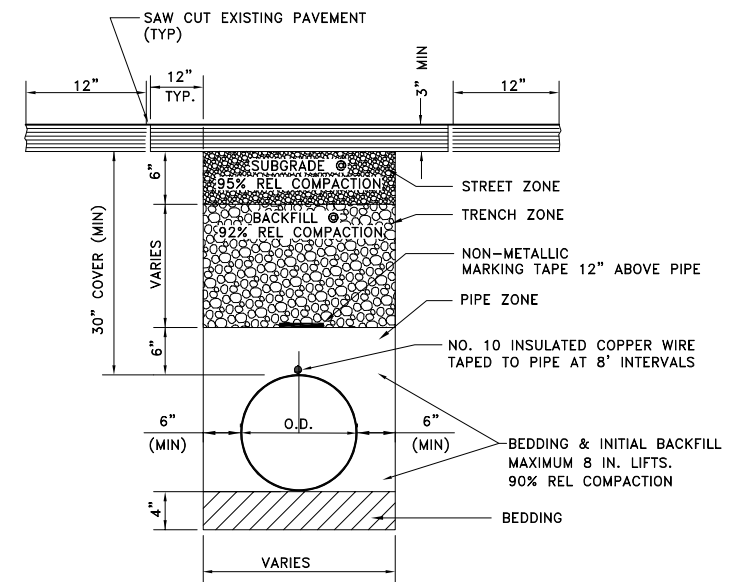


- NOTE:**
- MINIMUM TRENCH WIDTH = PIPE OD + 12".
  - THIS DETAIL APPLIES TO PIPELINES, SERVICES, ARV'S, BOS, AND HYDRANT LATERALS
  - PIPE ZONE AND BEDDING HATCH PATTERNS USED TO DETERMINE ZONES. BACKFILL MATERIAL SHALL BE 3/4" AB
  - MAX 8" LOOSE FILL PER LIFT

**OUTSIDE OF ROADS RIGHTS OF WAY TRENCH**

SCALE: NONE  
DATE: JULY, 2024

STD DTL  
**14**



- NOTE:**
- ALL BACKFILL MATERIAL SHALL BE TYPE 2 AGGREGATE BASE IN ROADWAY. DIFFERENT HATCHING PATTERNS USED TO DETERMINE ZONES NOT MATERIAL
  - MINIMUM TRENCH WIDTH = PIPE OD + 12".
  - THIS DETAIL APPLIES TO PIPELINES, SERVICES, ARV'S, BOS, AND HYDRANT LATERALS.
  - MAX 8" LOOSE FILL PER LIFT
  - TYPE II SLURRY SHALL MEET LATEST CALTRANS STANDARDS SPECIFICATION FOR MATERIAL AND INSTALLATION/APPLICATION.

**ROADWAY TRENCH**

SCALE: NONE  
DATE: JULY, 2024

STD DTL  
**15**

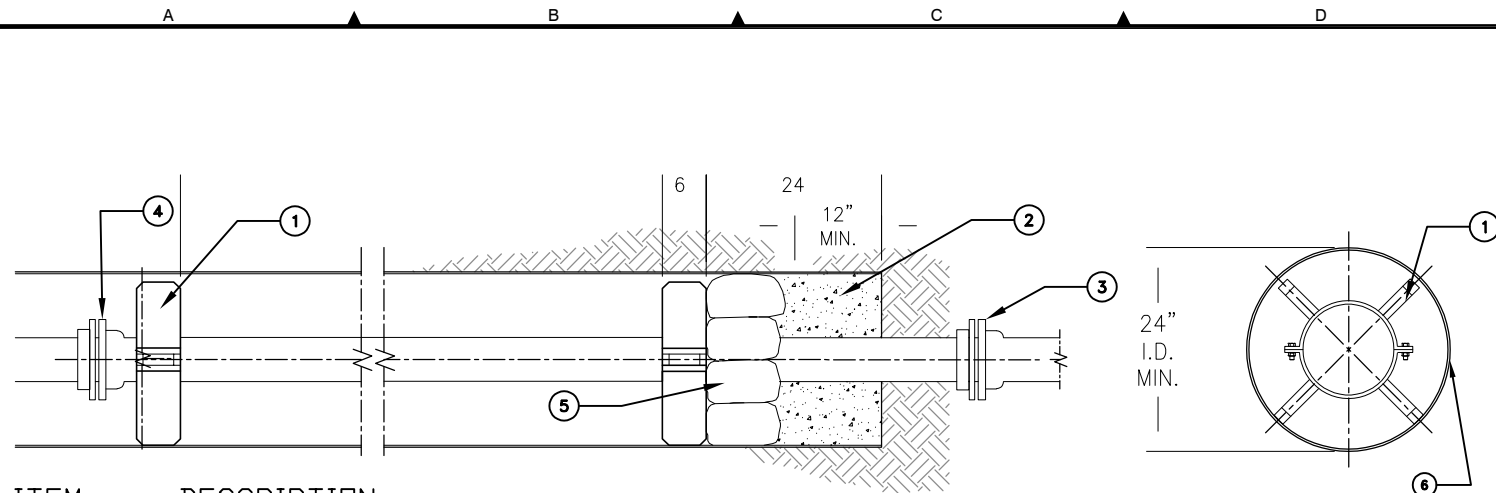
SCALE NONE	BAR IS ONE INCH AT FULL SCALE 0 1"	DATE JULY 2024	DESIGNED GOL
	IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY	FILE CVPC21-001	DRAWN TWA
		CHECKED FJF	



**CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT**  
PLACER COUNTY, CALIFORNIA  
**KENNETH LOOP WATER PIPELINE PROJECT**

**TYPICAL CIVIL DETAILS 2**

DRAWING NUMBER <b>C002</b>	SHEET NUMBER <b>6 OF 17</b>
-------------------------------	--------------------------------



- | ITEM | DESCRIPTION  |
|------|--|
| 1.   | POLYURETHANE SKIDS DESIGNED TO ELECTRICALLY ISOLATE CARRIER PIPE FROM CASING TO PREVENT CARRIER PIPE FLOTATION ADDITIONAL SKIDS MAY BE NECESSARY TO SUPPORT CARRIER PIPE STEEL CASING ONLY |
| 2.   | 12" MIN. LOW STRENGTH CONCRETE OR SAND CEMENT SLURRY PLUG  |
| 3.   | CONNECT ENDS OF 8" DIP CARRIER PIPE WITH RESTRAINED MJ OR FLANGE ADAPTER   |
| 4.   | CARRIER PIPE SHALL BE RESTRAINED THROUGHOUT CASING LENGTH ENSURE CARRIER PIPE JOINT RESTRAINT SYSTEM DOES NOT CONTACT CASING   |
| 5.   | SAND BAGS TO FORM INSIDE OF CONCRETE PLUG  |
| 6.   | WELDED STEEL CASING 24" MIN INSIDE DIA   |

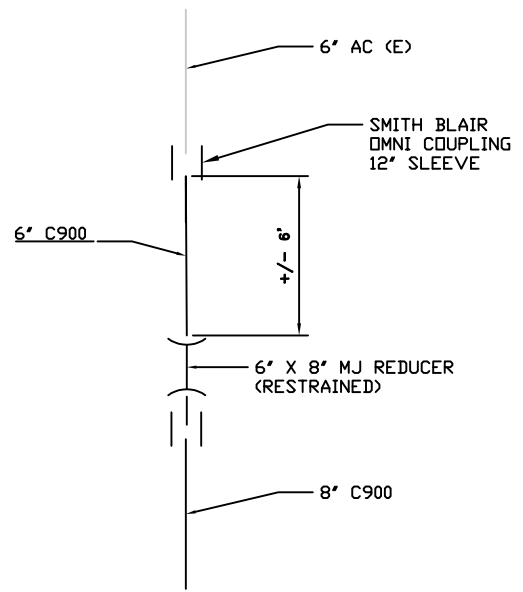
NOTES  
1. SEE SHEET C010 FOR MATERIAL SPECS

BORE + JACK	
SCALE: NONE	STD DTL 16
DATE: JULY, 2024	

GATE E VOUTS	
SCALE: NONE	STD DTL 17
DATE: JULY, 2024	

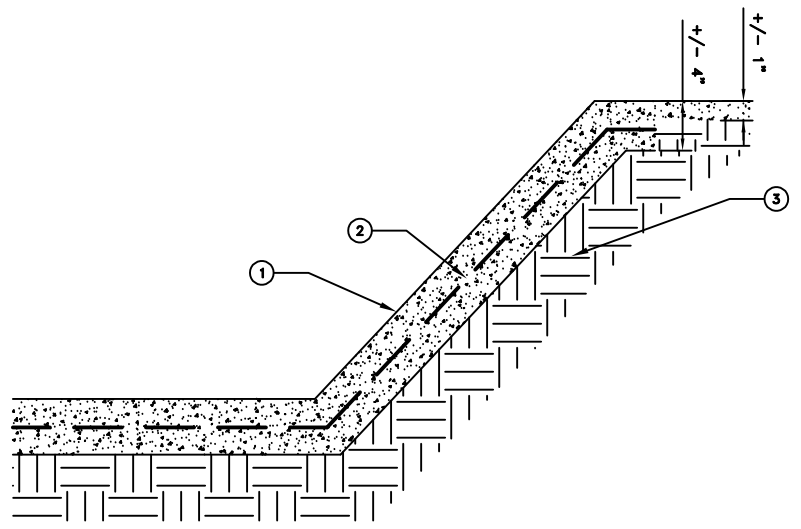
TIE IN ON KENNETH	
SCALE: NONE	STD DTL 18
DATE: JULY, 2024	

REVISION	DESCRIPTION	BY	APP	CITY	DATE



NOTES  
1. CONTRACTOR TO POTHOLE AND CONFIRM LOCATION AND OD OF EXISTING 6" AC

- | ITEM | DESCRIPTION  |
|------|--|
| 1.   | 4" GUNITE LINER PER SPECIFICATION  |
| 2.   | 6X6 10 GAGE WELDED WIRE FABRIC EMBEDDED AT HALF THICKNESS OF FINAL SLAB          |
| 3.   | EXISTING GROUND SURFACE PREPARED PER SPECIFICATION                               |
| 4.   | GUNITE LINER TERMINATE 4 INCHES INTO EXISTING EMBANKMENT +/- 1' ABOVE FINAL GRAD |



CROSS SECTION: NTS



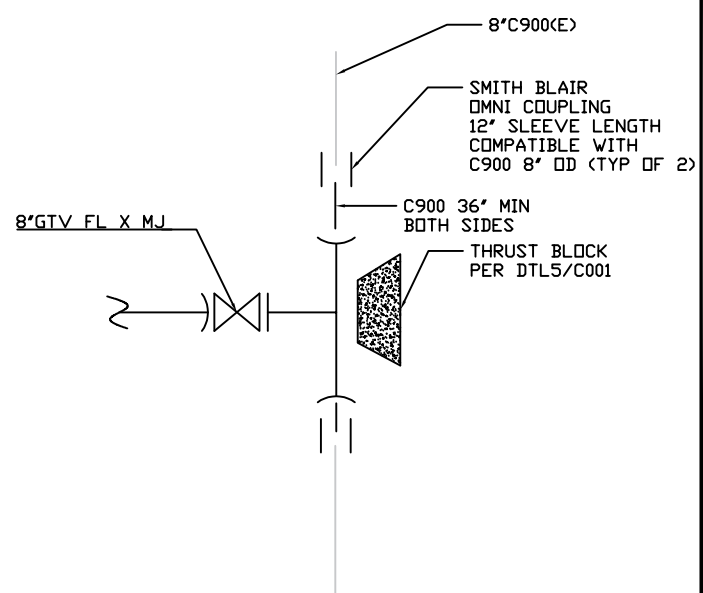
LONGITUDINAL SECTION

GUNNITE CANAL LINING	
SCALE: NONE	STD DTL 19
DATE: JULY, 2024	

CONNECTION DETAIL	
SCALE: NONE	STD DTL 20
DATE: JULY, 2024	

SCALE: NONE	STD DTL 15
DATE: JULY, 2024	

NOTES  
1. CONTRACTOR TO POTHOLE AND CONFIRM LOCATION AND OD



SCALE  
NONE

BAR IS ONE INCH AT FULL SCALE  
IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY

DATE  
JULY 2024

DESIGNED GOL  
DRAWN TWA  
CHECKED FJF

FILE  
CVPC21-001



CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT  
PLACER COUNTY, CALIFORNIA  
KENNETH LOOP WATER PIPELINE PROJECT

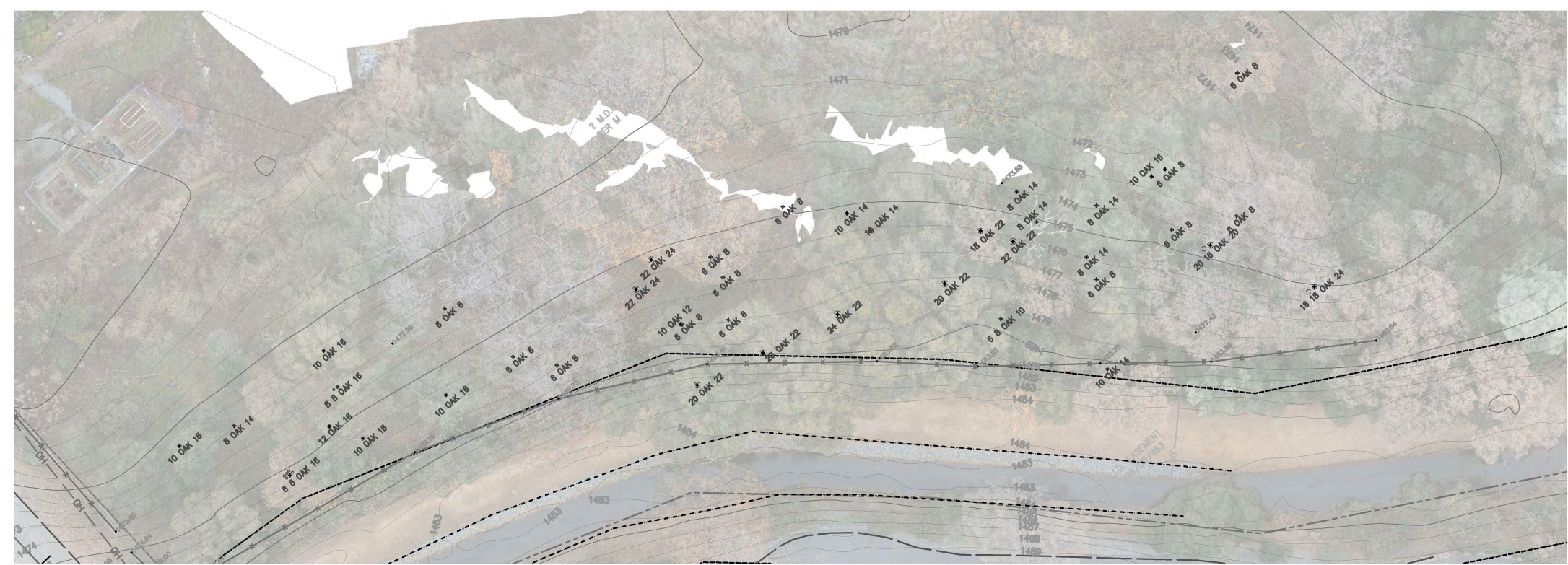
TYPICAL CIVIL DETAILS 3

DRAWING NUMBER  
CO03

SHEET NUMBER  
7 OF 17



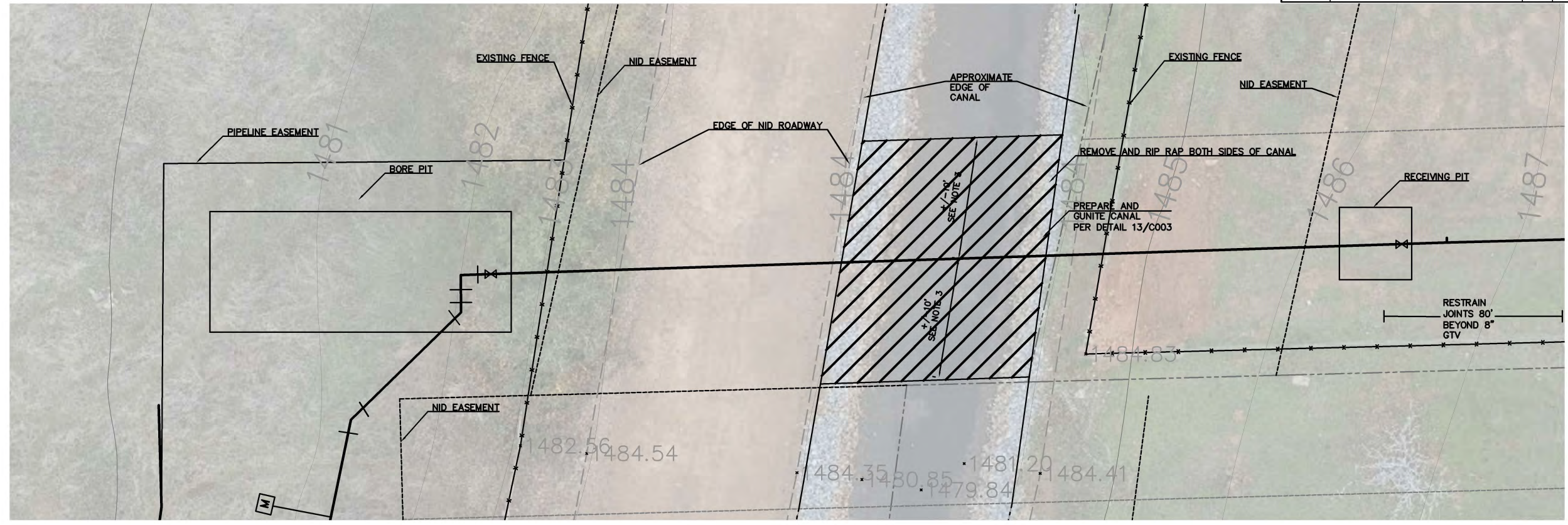
REVISION	DESCRIPTION	BY	APP	CITY	DATE



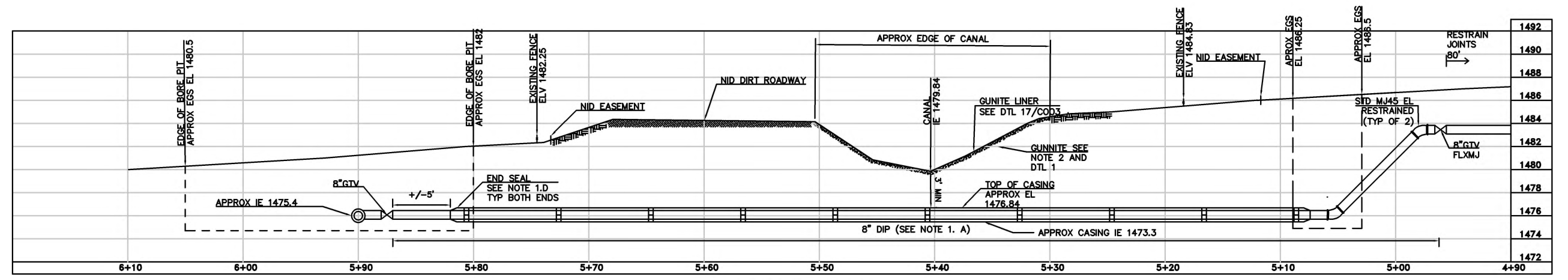
PENDING SURVEY



REVISION	DESCRIPTION	BY	APP	CITY	DATE



SCALE: 1"=5'



SCALE: 1"=5'

NOTES:

- MATERIALS**

A. CARRIER PIPE SYSTEM: MCWANE DUCTILE TR FLEX RESTRAINED JOINT DIP + FITTINGS BETWEEN GTV'S ON EACH SIDE OF CANAL

B. CENTRALIZERS: ADVANCED PRODUCTS AND SYSTEMS SS18 WITH 7" MIN RUNNER LENGTHS TO PROVIDE 2" CLEARANCE FROM BELLS AND BOTTOM OF CASING. PROVIDE MINIMUM OF THREE SPACERS PER 18-FOOT LENGTHS OF PIPE. SPACERS SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS

C. CASING: 24" MIN DIA. WELDED STEEL CASING 3/8" WALL THICKNESS W/MIN. YIELD STRENGTH OF 36,000 PSI

D. END SEALS SEE CIVIL DTL 11 #/C003
- CONTRACTOR SHALL COORDINATE WORK IN CANAL WITH NID. SEE SPECIFICATION SECTION 1020
- CONTRACTOR SHALL REMOVE AND WASTE EXISTING ROCK RIP RAP. PREPARE CANAL AND GUNITE 10' UPSTREAM AND DOWNSTREAM 20' TOTAL OF CANAL CROSSING SEET DTL 19/C003



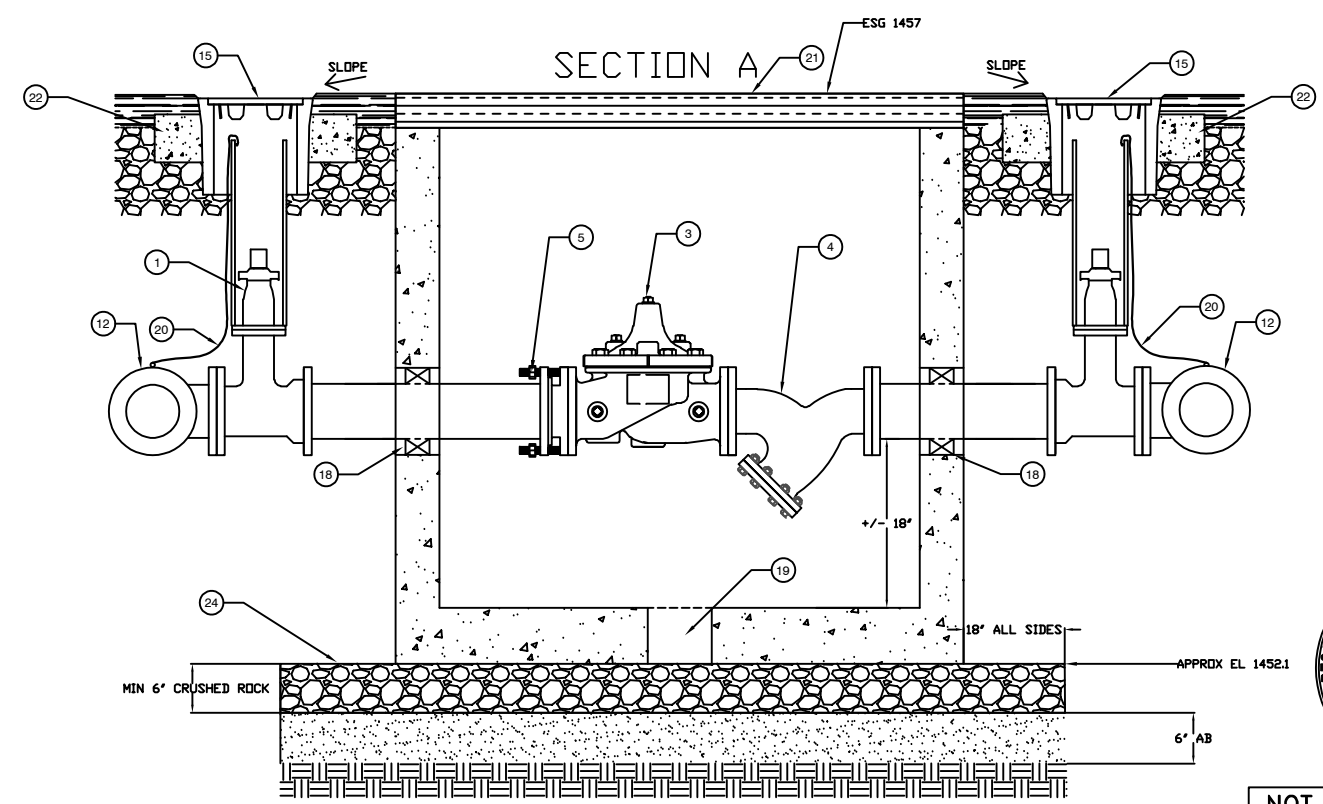
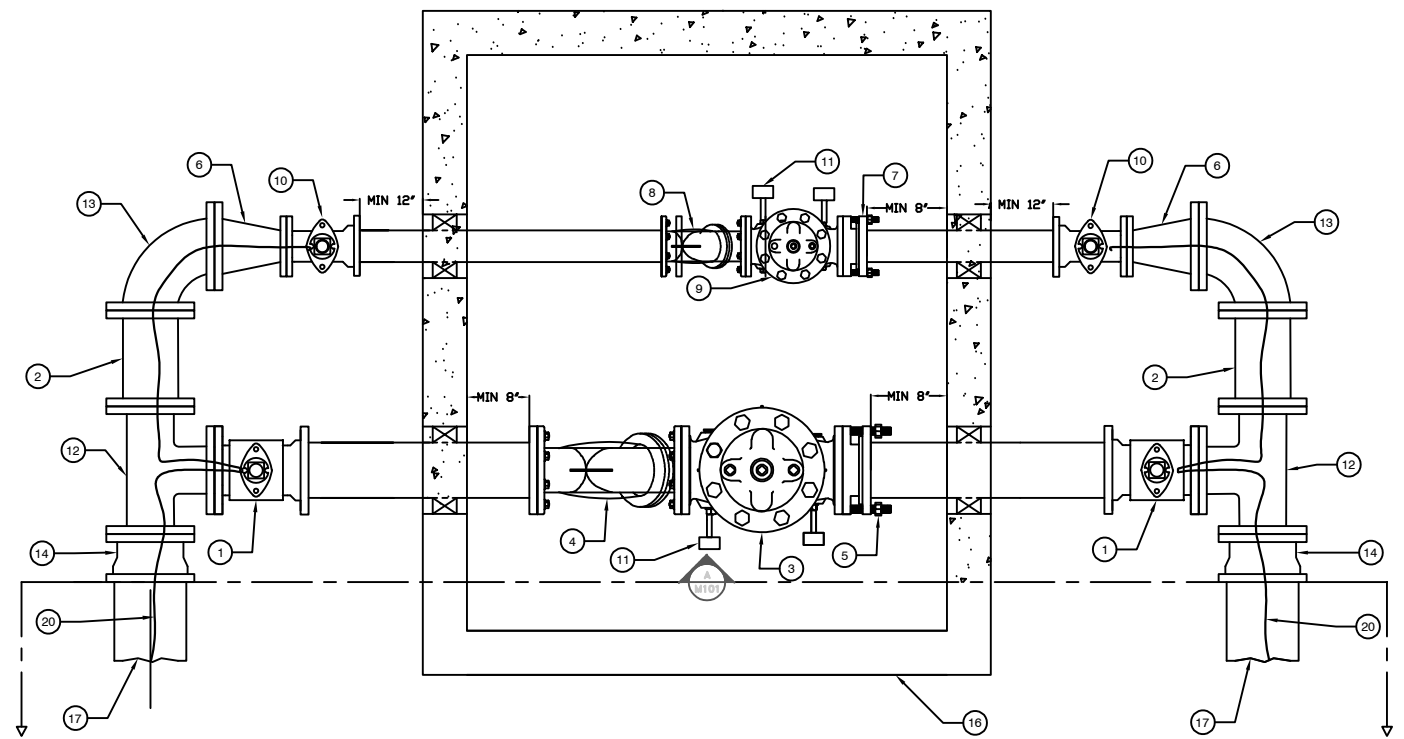
NOT FOR CONSTRUCTION



REVISION	DESCRIPTION	BY	APP	CITY	DATE

- ITEM DESCRIPTION**
- 6" CLASS 125 FLG X MJ GTV
  - 6" FLG X FLG DIP 12" LENGTH
  - 6" CAL-VAL 90-01 PRESSURE REDUCING AND SUSTAINING VALVE PILOT NOT SHOWN (SEE SPECIFICATION SECTION 15100)
  - 6" ZURN WILKINS WYE TYPE STRAINER OR APPROVED EQUAL
  - 6" SMITH BLAIR FLANGE COUPLING ADAPTER
  - 6" TO 3" FLG X FLG ANVIL REDUCER OR APPROVED EQUAL
  - 3" SMITH BLAIR FLANGE COUPLING ADAPTER OR APPROVED EQUAL
  - 3" ZURN WILKINS WYE TYPE STRAINER FLG X FLG WITH X54TD TRANSITION DEVICE OR APPROVED EQUAL
  - 3" CAL-VAL 90-01 PRESSURE REDUCING AND SUSTAINING VALVE PILOT NOT SHOWN (SEE SPECIFICATION SECTION 15100)
  - 3" CLASS 125 FLG X MJ GTV
  - ASHCROFT 0 TO 200 PSI 2-1/2" PRESSURE GAGE 1/4" BRASS BALL VALVE WITH 3" BRASS 1/4" NIPPLE APPROPRIATE SIZE BRASS BUSHING DOWN TO 1/4" FROM BODY OF CAL-VAL 92-01
  - 6" FLG X FLG X FLG T FITTING GAUGES SHOWN IN PLAN FOR CLARITY; INSTALL 90 EL AN ORIENT IN VERTICAL PLANE
  - 6" FLG X FLG 90
  - 6" FLG X MJ ADAPTER
  - G5 UTILITY BOX (SEE STANDARD DETAIL)
  - OLDCASTLE PREFABRICATED CUSTOM UTILITY VAULT MODEL T.I.D. INSIDE DIMENSIONS (L 5' X W 6' X D 5') WITH SPRING ASSISTED H2O LIDS TO PRV BYPASS SEE DETAIL X
  - CORE OR CAST PIPING PENETRATES, LINK SEAL FILL ANNULAR SPACE WITH NON-SHRINK GROUT
  - KNOCK OUT FOR DRAINAGE
  - LOCATING WIRE
  - CUSTOM OLDCASTLE H2O LID WITH SPRING ASSIST LIFT SHALL BE MADE TO FIT PER MANUFACTURE STANDARDS
  - 6' X 6' CONCRETE PAD W/#4 REBAR
  - PVC RISER PER
  - MIRAFI RS281 GEOSYNTHETIC LINER WRAPPED AROUND CRUSHED ROCK, PROVIDE 24" OVERLAP ON ALL SIDES

- NOTES**
- ALL PIPE SHALL BE DIP AS NOTED IN PLAN VIEW
  - CONTRACTOR SHALL CORE PIPE PENETRATIONS IN FIELD BASED ON INVERT ELEVATIONS
  - SLOPE AWAY FROM VAULT



NOT FOR CONSTRUCTION

SCALE  
1"=5'

DATE  
JULY 2024  
FILE  
CVPC21-001

DESIGNED GOL  
DRAWN TWA  
CHECKED FJF



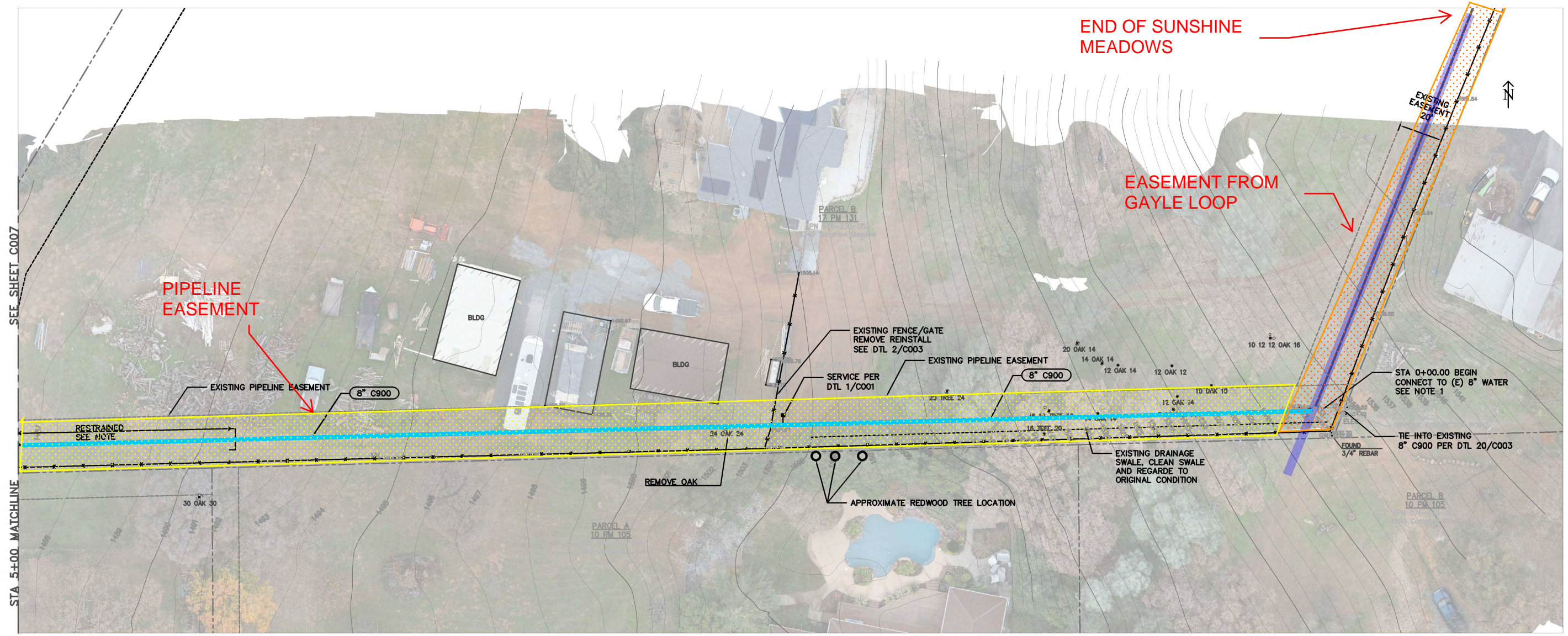
CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT  
PLACER COUNTY, CALIFORNIA  
KENNETH LOOP WATER PIPELINE PROJECT

PRESSURE REDUCING  
STATION DETAIL

DRAWING NUMBER  
C006  
SHEET NUMBER  
9 OF 17



REVISION	DESCRIPTION	BY	APP	CITY	DATE



**NOTES**

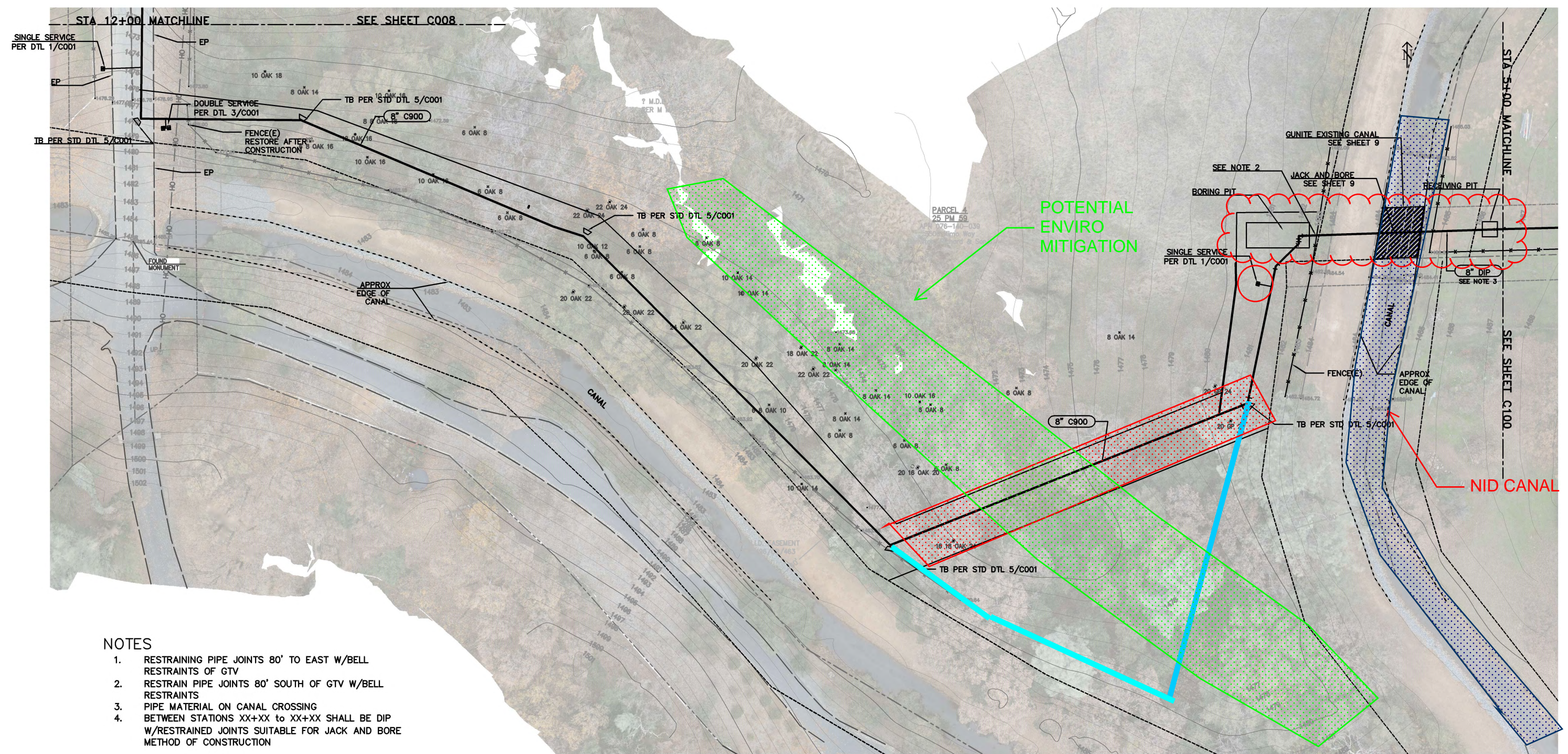
1. TIE IN TO EXISTING PIPE WILL REQUIRE SYSTEM SHUTDOWN PROVIDE MIN 14 DAY NOTICE FOR SHUTDOWN
2. BELL RESTRAINTS W/ JOINTS FROM 8" GTV LOCATED AT RECEIVING PIT



**NOT FOR CONSTRUCTION**



REVISION	DESCRIPTION	BY	APP	CITY	DATE



**NOTES**

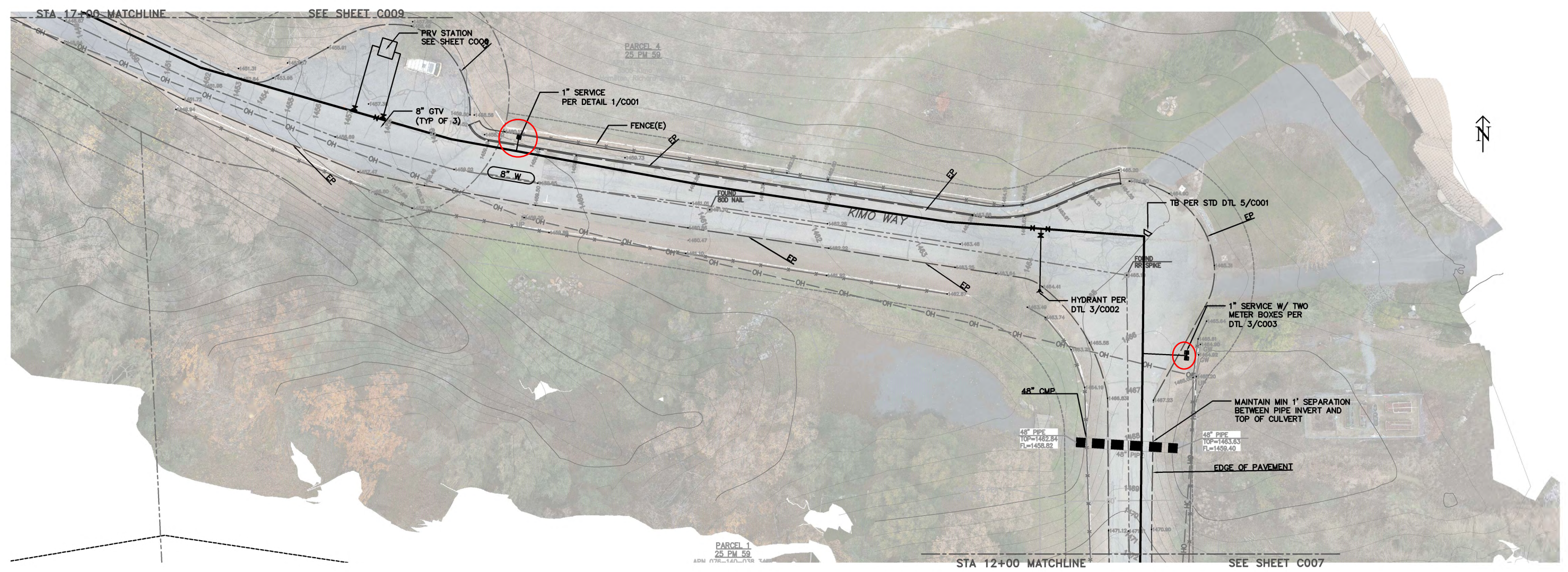
1. RESTRAINING PIPE JOINTS 80' TO EAST W/BELL RESTRAINTS OF GTV
2. RESTRAIN PIPE JOINTS 80' SOUTH OF GTV W/BELL RESTRAINTS
3. PIPE MATERIAL ON CANAL CROSSING
4. BETWEEN STATIONS XX+XX TO XX+XX SHALL BE DIP W/RESTRAINED JOINTS SUITABLE FOR JACK AND BORE METHOD OF CONSTRUCTION



**NOT FOR CONSTRUCTION**



REVISION	DESCRIPTION	BY	APP	CITY	DATE



**NOTES**

1. HYDRANT MAP SERVICE LOCATIONS SHOWN ARE APPROXIMATE FIELD LOCATE W/ ENGINEER DURING CONSTRUCTION

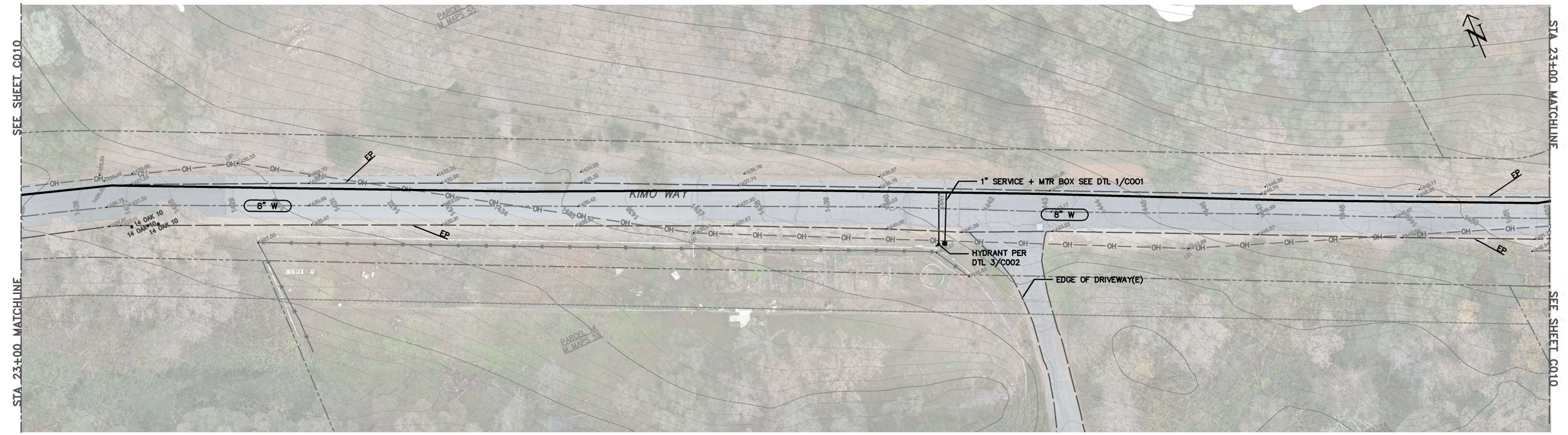


**NOT FOR CONSTRUCTION**

SCALE 1"=20'	BAR IS ONE INCH AT FULL SCALE IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY	DATE JULY 2024 FILE CVPC21-001	DESIGNED <b>GOL</b> DRAWN <b>TWA</b> CHECKED <b>FJF</b>		CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT PLACER COUNTY, CALIFORNIA KENNETH LOOP WATER PIPELINE PROJECT	KENNETH LOOP PIPELINE PLAN STA 12+00 to STA 17+00	DRAWING NUMBER <b>C010</b>	SHEET NUMBER <b>13 OF 17</b>
-----------------	--	---	---	--	---	--	-------------------------------	---------------------------------



REVISION	DESCRIPTION	BY	APP	CITY	DATE

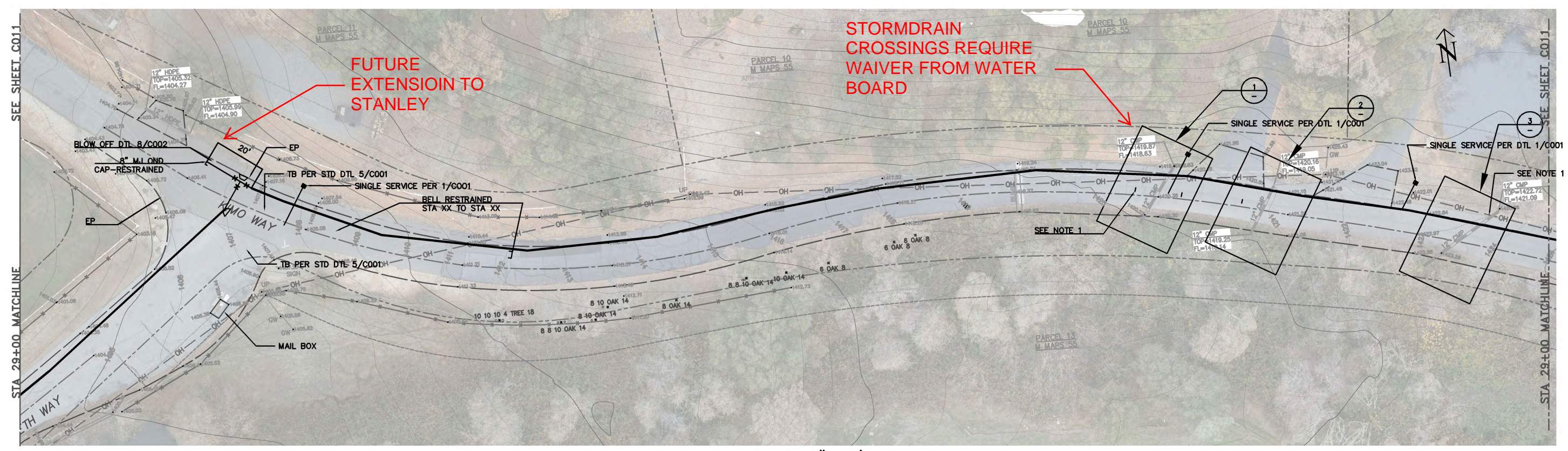


NOT FOR CONSTRUCTION

SCALE 1"=20' BAR IS ONE INCH AT FULL SCALE IF NOT ONE INCH ON THIS SHEET SCALE ACCORDINGLY	DATE <b>JULY 2024</b> FILE CVPC21-001	DESIGNED <b>GOL</b> DRAWN <b>TWA</b> CHECKED <b>FJF</b>		CHRISTIAN VALLEY PARK COMMUNITY SERVICES DISTRICT PLACER COUNTY, CALIFORNIA KENNETH LOOP WATER PIPELINE PROJECT	KENNETH LOOP PIPELINE PLAN STA 17+00 to STA 23+00	DRAWING NUMBER <b>C010</b>	SHEET NUMBER <b>14 OF 17</b>
---	--	---	--	---	--	-------------------------------	---------------------------------

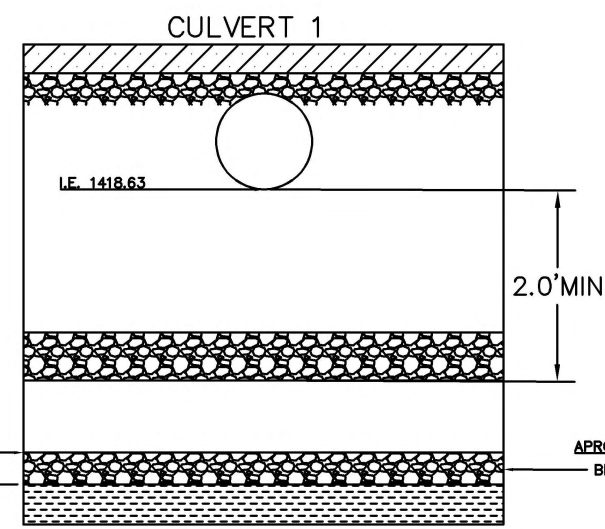


REVISION	DESCRIPTION	BY	APP	CITY	DATE

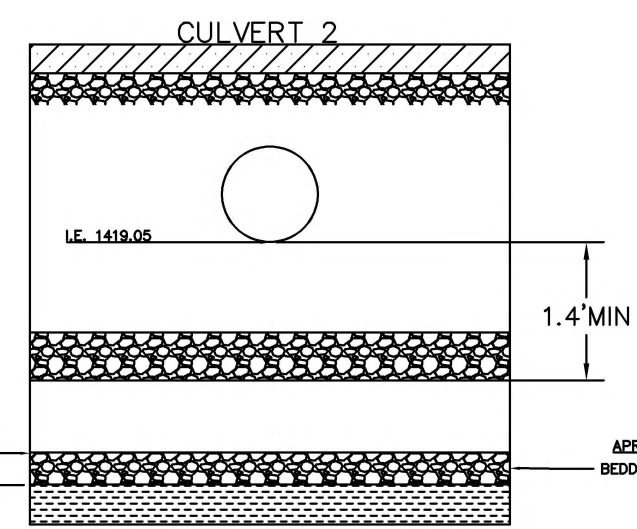
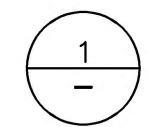


SCALE: 1"=20'

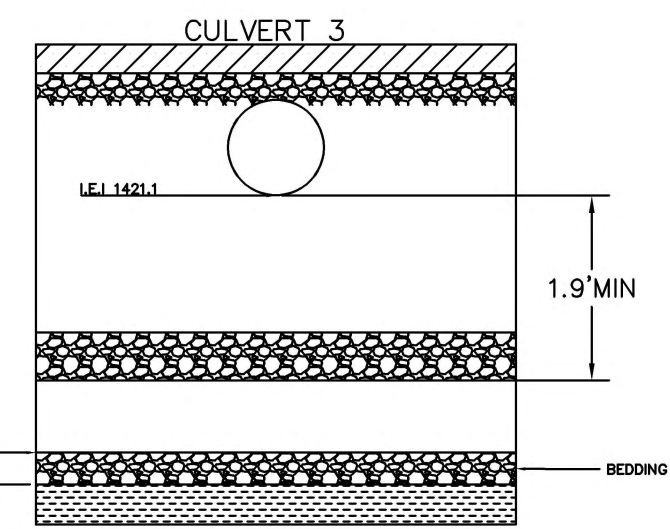
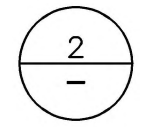
- NOTES**
- CULVERT CROSSING STATIONS XX+XX, XX+XX, AND XX+XX
    - USE DIP BETWEEN STA XX+XX TO STA XX+XX
    - CENTER FULL STICK 18' UNDER EACH CULVERT TO PROVIDE MINIMUM 9' FREE OF JOINTS ON EACH SIDE OF CULVERT
    - TRANSITION BETWEEN C900 AND DIP WITH MJ SLEEVE WITH MIN SLEEVE LENGTH 12"
  - BACKFILL: UTILIZE CLSM 10' EACH SIDE OF STORM DRAIN CROSSING (TOTAL 20') AB BACKFILL WITHIN AREA GREATER THAN 10' FROM CULVERT COMPACTED PER SPECIFICATIONS IS ACCEPTABLE.



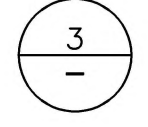
SCALE: 1"=1'



SCALE: 1"=1'



SCALE: 1"=1'

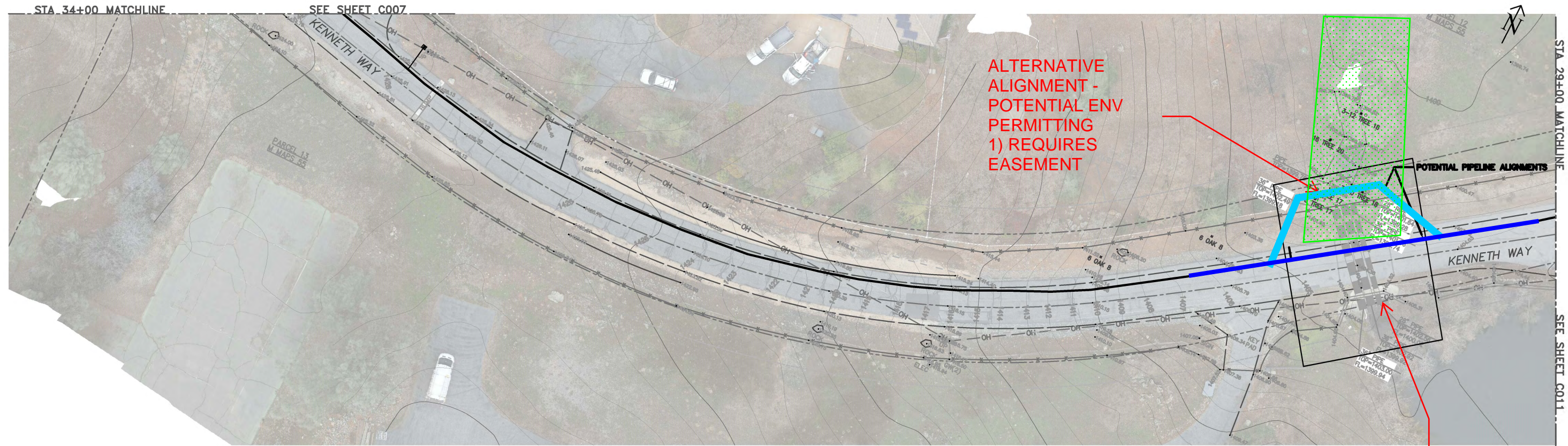


NOT FOR CONSTRUCTION

CULVERT ID	APPROX EGS	CULVERT TOP	NEW PIPELINE TOP	SEPARATION FT	APPROX DEPTH
1	1420.3	1419.7 1416.6	1417.3 1416.6	1.2'	3'
2	1421.2	1420.2 1419.0	1417.7 1417.0	1.3'	3.3
3	1423.4	1422.7 1421.1	1419.8 1419.1	1.3'	3.6'



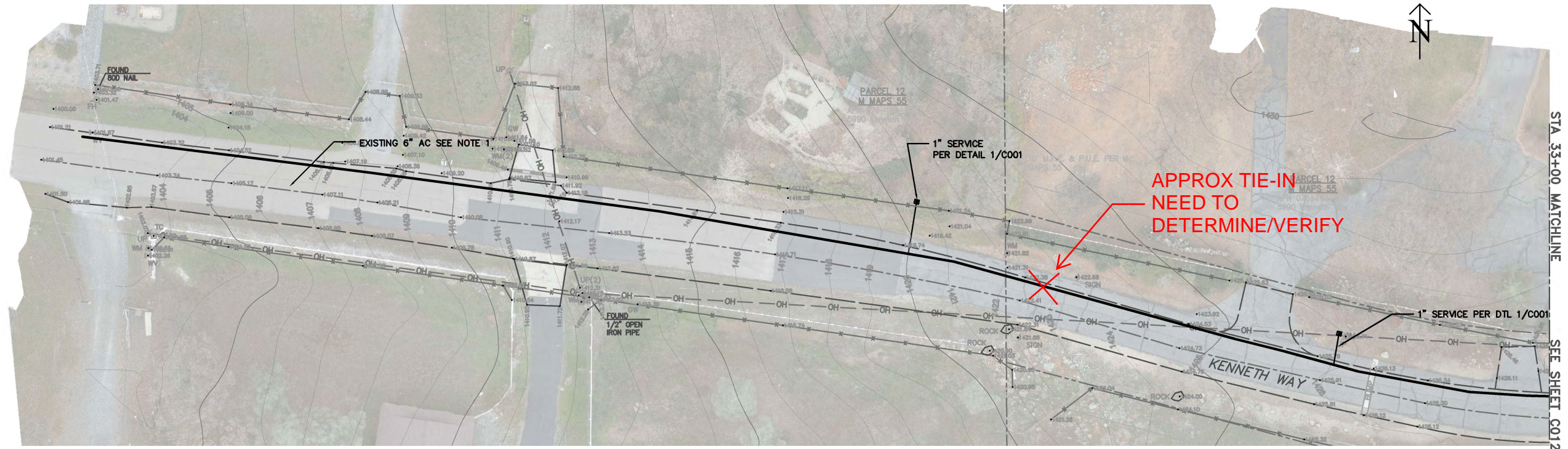
REVISION	DESCRIPTION	BY	APP	CITY	DATE



NOT FOR CONSTRUCTION



REVISION	DESCRIPTION	BY	APP	CITY	DATE



**NOTES:**

1. CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF EXISTING 6" AC
2. SEE DETAIL 18/C003



**NOT FOR CONSTRUCTION**