

SECTION G

CONTRACT DRAWINGS

HESPERIA WATERLINE IMPROVEMENT PROJECT

FOR

COUNTY SERVICE AREA (CSA) 70 J OAK HILLS HESPERIA, CALIFORNIA

PROJECT NO.: 30.30.0173



GENERAL WATER NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND TO THE LATEST SPECIAL DISTRICTS
 "STANDARDS FOR DOMESTIC WATER SYSTEMS" AS POSTED ON SPECIAL DISTRICTS WEBSITE AT:
 http://www.specialdistricts.org/index.aspx?page=586
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CURRENT AND APPROVED SET OF SPECIAL DISTRICTS STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. STANDARD SPECIFICATIONS CAN BE PURCHASED AT THE SAN BERNARDINO COUNTY SPECIAL DISTRICTS OFFICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS FOR CONSTRUCTION INSPECTION AT LEAST 48 HOURS PRIOR TO BEGINNING WORK BY CALLING DEVELOPMENT SERVICES AT (760) 955-9885 OR BY EMAIL AT DEVSERVICES@SDD.SBCOUNTY.GOV
- 4 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE ITSELF WITH THE JOB SITE AND THE I SANAL SE THE RESPONSIBLE TO THE CONTRACTOR TO PARRICHARD ITSELF WITH END OF THE SUBSTITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWARS. THE N ON THESE PLOONTRACTOR IS RESPONSIBLE FOR ALL DIG ALERT REQUESTS AND EXPLORATORY EFFORTS NECESSARY TO VERIFY ANY UNDERGROUND OBSTRUCTIONS. THE CONTRACTOR WILL BE UNILATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PIPE INCURRED WHILE BACK FILLING AND COMPACTING
- 6 THE CONTRACTOR SHALL ORTAIN ALL NECESSARY STATE COLINTY OR LOCAL PERMITS
- 7. CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT AND ENCROACHMENT PERMIT OR OTHER REQUIRED PERMITS FROM THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION, AND CITY OF HESPERIA PRIOR TO ANY GRADING OR PIPELINE EXCAVATION WITHIN THE COUNTY AND CITY RIGHT OF WAY BY CALLING (909) 387-7910.
- 8. THRUST BLOCKS SHALL BE INSTALLED PER SPECIAL DISTRICTS "STANDARDS FOR DOMESTIC WATER SYSTEMS" PER STANDARD DRAWING H-3.

 9. THE CONTRACTOR SHALL NOTIFY ALL SERVING UTILITY COMPANIES 48 HOURS PRIOR TO BEGINNING ANY
- DITCH EXCAVATION WHEN WORK IS TO BE PERFORMED NEAR THEIR FACILITIES BY CALLING 811.
- 10. ALL PIPE SHALL BE CLASS 235 AND INSTALLED WITH LOCATION TAPE 18" BELOW FINISHED GRADE AND 14 GA.
 INSULATED WIRE TAPED TO PIPE AND BROUGHT TO SURFACE AT HYDRANTS, METER SERVICES, AIR VAC &
 BLOW OFFS.
- 11 THE CONTRACTOR SHALL COORDINATE ALL TIF-INS OF NEW WATER MAINS IN COUNTY SERVICE AREAS WITH . THE WATER AND SANITATION SUPERVISOR, 222 W. HOSPITALITY LANE, XND FLOOR, SAN BERNARDING, CA 92415-0450, PHONE; (760) 955-9985 TO KEEP INTERRUPTIONS TO A MINIMUM. NO INTERRUPTIONS TO EXISTING SERVICES SHALL BE MADE UNLESS THE DISTRICT GRANTS PRIOR APPROVAL.
- 12. CONTRACTOR SHALL ENSURE THAT UTILITY EASEMENTS HAVE BEEN RECORDED PRIOR TO START OF WORK.
- 13. WATER MAIN SHALL HAVE A MINIMUM OF 48" OF COVER FROM TOP OF PIPE TO FINAL GRADE.
- 14. HYDRO TEST AT 200 PSI MINIMUM FOR A 2 HOUR DURATION AT LOWEST POINT IN THE WATER LINE.
- 15. 1" SERVICE LINES ARE TO BE INSTALLED PER STANDARD DRAWING H-4A AND H-9.
- 16. ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION WITH COMPLETE VALVE CAN TO GRADE DIRECTLY FOLLOWING CONNECTION TO EXISTING WATER SYSTEM. SEE STANDARD DRAWING H-11.
- 17. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE UNDERSIGNED ENGINEER AND THE COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS.
- 18. THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE THE CONTINGUIS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEPEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 19. ALL STATIONING IS BASED ON THE CENTER LINE OF THE PIPE.
- 20. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS OPEN TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY THE SPECIAL DISTRICTS ENGINEER.
- 21. ALL PIPE DISTANCES SHOWN ARE HORIZONTAL. 22. ALL WORK SHALL BE CONSTRUCTED ACCORDING TO THE VERTICAL AND HORIZONTAL MEASUREMENTS OF 1. ALL WORK SHALL BE CONSTRUCTED ACCORDING TO THE VERTICAL AND HORIZONTAL MEASUREMENTS OF THESE PLANS AND EXISTING DESIGN STANDARDS, ADEQUATE STAKES SHALL BE SET UNDER THE DIRECTION OF A LICENSED SURVEYOR/ENGINEER FOR THE CONSTRUCTOR. ALL CONSTRUCTION SURVEYING SHALL BE PERFORMED IN ACCORDANCE TO THE SURVEYING PROCEDURES OF THE SURVEYOR/ENGINEER OF RECORD. IF THIRD PARTY SUBCONTRACTORS PERFORM THE CONSTRUCTION LAYOUT AND SURVEYING FOR THIS PROJECT WITHOUT THE COORDINATION OF THE SURVEYOR/ENGINEER OR RECORD, THEY HAVE ASSUMED THE POSITION OF SURVEYOR/ENGINEER OF RECORD, THE FINAL CHECK OF THIS DESIGN IS TO BE THE CONSTRUCTION STAKING AS THE DESIGN MEETS THE EXISTING CONTROL AND ELEVATIONS, ALL EXISTING DISCREPANCIES TO THE STANDARD DESIGN CRITERIA SHALL BE BROUGHT TO THE SURVEYOR/ENGINEER OF RECORD. ATTENTION BROOK TO PROCEEDING WITH CONSTRUCTION TO THE SURVEYOR/ENGINEER OF RECORD'S ATTENTION PRIOR TO PROCEEDING WITH CONSTRUCTION IF CONSTRUCTION CONTINUES WITHOUT VERIFICATION THE CONSTRUCTOR ASSUMES THE RESPONSIBILITY OF THE CORRECTNESS OF THE
- 23. THE METHOD AND LOCATION OF CONNECTION TO THE PUBLIC WATER SUPPLY AND REQUIREMENTS FOR BACKFLOW PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL WATER SUPPLIES REQUIREMENTS.
- 24. CONTRACTOR TO COORDINATE WITH OTHER UTILITIES, TRADES, AND ARCHITECTURAL PLANS TO AVOID
- 25. CONTRACTOR SHALL DISINFECT THE WATER LINE IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C651, AND SAN BERNADINO COUNTY SPECIAL DISTRICTS STANDARDS FOR DOMESTIC WATER SYSTEMS PRIOR TO PLACING LINE IN SERVICE.

BENCHMARK:

26. DO NOT BEGIN ABANDONMENT OPERATIONS UNTIL REPLACEMENT WATER MAIN HAS BEEN CONSTRUCTED AND TESTED, ALL SERVICE CONNECTIONS HAVE BEEN INSTALLED, AND REPLACEMENT MAIN IS APPROVED FOR USE.

BASIS OF BEARINGS:

ELEVATION DETERMINED FROM CORS CONTROL SITES. POINT #1 TRAVPT-SET 1X2 W/TACK FLUSH. NAVD-88 ELEV = 3555,315' CCS83 ZONE 5, NAD83(2011), EPOCH 2010,0

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SPECIAL DISTRICTS

CSA 70J - RODEO ROAD AND PITZER AVENUE WATERLINE IMPROVEMENT PROJECT

NOTE TO CONTRACTOR - EXISTING UTILITIES:

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. WHILE DUE CARE WAS TAKEN IN PREPARATION OF THIS INFORMATION DUDEK CANNOT AND DOES NOT GUARANTEE THE ACCURACY NOR THE COMPLETENESS OF THE INFORMATION, THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULTS FROM HIS FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND SHALL VERIFY THEIR HORIZONTAL AND VERTICAL LOCATIONS. IN THE EVENT, DURING CONSTRUCTION, THAT UNKNOWN UTILITIES OR UNKNOWN STRUCTURES ARE FOUND AT UNEXPECTED ELEVATIONS OR LOCATIONS, DUDEK IS TO BE NOTHFIED OF SUCH CONDITION AT ONCE, DUDEK WILL MAKE REQUIRED DESIGN CHANGES AND THE CONTRACTOR AGREES TO COMPLETE ALL WORK, INCLUDING REPAIRS REQUIRED IN AN EXPEDITIOUS MANNER. THE CONTRACTOR FURTHER AGREES TO PURSUE DILIGENTLY THE COMPLETION OF SAID WORK. ANY DISCREPANCY BETWEEN THE PLANS AND THE FIELD SHALL BE BROUGHT TO THE ATTENTION OF DUDEK, THE CONTRACTOR SHALL NOTIFY DUDEK PRIOR TO POTHOLING. IF NECESSARY DUDEK SHALL REVISE THE PLANS, THE CONTRACTOR SHALL BEGIN CONSTRUCTION AFTER REVISIONS ARE APPROVED.

UTILITY CONTACTS:

SAN BERNARDINO COUNTY SPECIAL DISTRICTS SOUTHERN CALIFORNIA GAS SOUTHERN CALIFORNIA GAS TRANSMISSION SOUTH WEST GAS SOUTH WEST GAS SOUTHERN CALIFORNIA EDISON FRONTIER MCI (VERIZON BUSINESS)

SPECTRUM (CHARTER) HESPERIA WATER DISTRICT

(323) 342-5552 800) 332-2344. (888) 624-5622 (951) 406-1690 (760) 947-1407, (760) 947-1488

SHEET 3 SHEET 4 WELLS FARGO STREET

INDEX MAPS

SCALE: 1" = 200

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SLOVE DESIGN, I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY SAN BERNARDINO COUNTY ONDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY SAIN BERNARDING COUNTY DEPARTMENT OF PUBLIC WORKS - SPECIAL DISTRICTS (SDD) IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH SDD PROCEDURES, APPLICABLE POLICES AND ORDINANCES, THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS, SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE IMPROVEMENTS, SUCH PLAN CHECK DOES NOT, HEREFORE, RELEVE WE'VE WE'VE WE'VE WESPONSOILL'I FOR HE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, I AGREE TO INDEMNIFY AND HOLD SDD, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACK. ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD. I HAVE READ AND INFORMED APPLICANT/DEVELOPER THAT APPROVAL OF THESE PLANS DO NOT RELIEVE THEM FROM THE REQUIREMENTS



ENGINEER'S CERTIFICATION

THE DESIGN OF THE WATER SYSTEM IS IN ACCORDANCE WITH THE REQUIREMENTS

- LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY:

 SPECIAL DISTRICTS WATER AND SANITATION DIVISION: DEVELOPMENT SERVICES (760) 955-9885

 PERMIT AGENCY: CITY OF HESPERIA (760) 947-1711

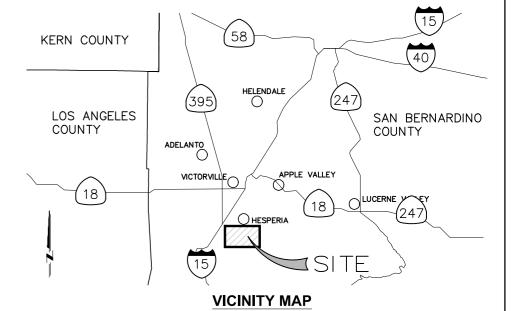
 UNDERGROUND SERVICE ALERT (USA): 811

- ALL OTHER AFFECTED AGENCIES THAT ARE NOT MEMBERS OF USA ALERT

THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE TWELVE (12) MONTHS FROM THE DATE ON THE APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, SPECIAL DISTRICTS REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO SPECIAL DISTRICTS FOR POSSIBLE CHANGES IN SPECIFICATIONS AND STANDARDS.

SHEET INDEX

SHEET NO.	DRAWING DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	G-1
2	LEGEND, SYMBOLS AND ABBREVIATIONS	G-2
3	PLAN & PROFILE - 1	C-1
4	PLAN & PROFILE - 2	C-2
5	PLAN & PROFILE - 3	C-3
6	CIVIL DETAILS - 1	CD-1
7	CIVIL DETAILS - 2	CD-2
8	CIVIL DETAILS - 3	CD-3





PLANS PREPARED BY:		
DUE	DEK	
605 Third Street En 760.942.5147 Fax		
PREPARED ON DER THE SUPERVISI	ON OF:	
You (90073	06/21/
PROFESSIONAL ENGINEER	R.C.E. No.	DAT

	REVISIONS							
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	MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE	L	

WATER / SEWER PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS							
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ASSISTANT I	DIRECTOR			DATE			
			INITIAL	DATE			
PPROVALS	PROJECT MANA	AGER	Deanna Lestina	Digitally signed by Decoma Leptino Code: 280A UC OH HI 22:54 07:00			
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WATER IMPROVEMENT PLANS CSA 70J - RODEO ROAD AND PITZER AVENUE WATERLINE IMPROVEMENT PROJECT NO 30 30 0173 TITLE SHEET

G-1 SDD-XXX HEET 1 OF 8

WO WORKING DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT

Call: TOLL FREE

1-800-227-2600

NEW AIR VACUUM RELIEF VALVE NEW WATER PIPELINE NEW WATER SERVICE PROPOSED RIGHT OF WAY PROPOSED CENTERLINE

CROSS REFERENCING SYSTEM

- SECTION LETTER

(1) A SECTION CUT ON DRAWING M-3 IS IDENTIFIED AS FOLLOWS: * LETTER INDICATES SHEET G — GENERAL C — CIVIL CD — CIVIL DETAIL DIRECTION OF VIEW -SECTION LETTER * DRAWING WHERE SECTION IS DETAILED (2) ON DRAWING M-4 THE SECTION IS IDENTIFIED AS FOLLOWS:

(3) DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER TO THAT OF SECTIONS EXCEPT DETAILS ARE ASSIGNED NUMBERS RATHER THAN LETTERS.

SECTION

NOT TO SCALE

- DETAIL NUMBER **DETAIL** NOT TO SCALE -INDICATES THAT DETAIL OR SECTION IS SHOWN ON SAME SHEET AS CALLED OUT

 $\overline{\mathsf{A}}$

SYMBOLS & ABBREVIATIONS:

SAN BERNARDINO COUNTY STORM DRAIN SAND EQUIVALENT SQUARE FEET SHEET STREET STATION STANDARD GAS
GRADE BREAK
GATE VALVE
HORIZONTAL
HIGH PRESSURE
INVERT ELEVATION
LINEAR FEET ASBESTOS CEMENT PIPE ADDITIONAL G GB GV HORIZ HP ACP ADD ACCESSOR'S PARCEL NUMBER APPROXIMATELY AIR VALVE AVENUE APN
APPROX
AV
AVE
BUVD
BO
C&G
CLR
CMC
COH
DI, DIP
DRWY
DWG
E, ELEC
EA
EG
EL, ELEV
FG
FM
FLG
FM
FFO SHT STA STD STL STL S, SS TEL TF TOP TYP AVENUE
BOULEVARD
BLOW-OFF
CURB AND GUTTER
CLEAR
CEMENT MORTAR COATING
CEMENT MORTAR LINING
CITY OF HESPERIA
CATHODIC PROTECTION
DUCTILE IRON PIPE
DRIVEWAY
DETAIL
DRAWING STANDARD
STEVEL
SEWER
TELEPHONE
TRANSFORMER
TOP OF PIPE
TYPICAL
UNKNOWN
VITRIFIED CLAY PIPE
VERTICAL
WATER
WATER METER MAXIMUM MAXIMUM MANHOLE MINIMUM MECHANICAL JOINT NOT TO SCALE OVERHEAD MH MIN MJ NTS OE OC PB PL PO PROP PVC R/W RCP RD RWGV ON CENTER
PULL BOX
PROPERTY LINE UNK'N VCP VERT PUSH-ON PROPOSED DRAWING
ELECTRIC
EACH
EXISTING GRADE
ELEVATION
EXISTING
FINISHED GRADE
FIRE HYDRANT
FLANGED
FORCE MAIN
FIBER OPTIC WATER METER WATER SERVICE POLYVINYL CHLORIDE
RIGHT OF WAY
REINFORCED CONCRETE PIPE FLFV RESILIENT WEDGE GATE VALVE

ONSTRUCTION NOTES:	QUANTITIES:
1) INSTALL 12" PVC CLASS 235, C-900 DR-18 WATERLINE.	2700 LF
2) PROTECT IN PLACE EX FH ASSEMBLY.	1 EA
3) INSTALL 12" MJ 45° ELBOW AND THRUST BLOCK PER SBC STD H-3B.	8 EA
4) INSTALL 12" MJ 22.5' ELBOW AND THRUST BLOCK PER SBC STD H-3B.	4 EA
5) INSTALL 12" MJ 11.25" ELBOW AND THRUST BLOCK PER SBC STD H-3B.	2 EA
6) INSTALL 12"X8" MJ TEE, VALVE CLUSTER, AND THRUST BLOCK PER SBC STD H-3A.	1 EA
7) RECONNECT EXISTING 1"WATER SERVICE PER SBC STD H-9.	6 EA
8 REMOVE AND PROPERLY DISPOSE OF EXISTING FIRE HYDRANT ASSEMBLY.	4 EA
9) INSTALL FIRE HYDRANT ASSEMBLY PER SBC STD H-2A.	4 EA
10) INSTALL 24" STEEL CASING PER DTL 1 ON DWG CD-3 (ADD. NO. 2).	40 LF
1) INSTALL 12"MJ RWGV WITH VALVE BOX PER SBC STD H-3A AND H-11.	5 EA
12) INSTALL 8"MJ RWGV WITH VALVE BOX PER SBC STD H-3A AND H-11.	1 EA
3 CONNECT TO EXISTING 12" ACP WATERLINE. SEE NOTE 5.	2 EA
(4) CONNECT TO EXISTING 8" ACP WATERLINE. SEE NOTE 5.	1 EA
REMOVE AND REPLACE 20 LF OF EXISTING 8" ACP WATER LINE WITH NEW 8" PVC CLASS 235, C-900 DR-18 WATERLINE WITH TWO VERTICAL 45" ELBOWS AND THRUST BLOCKS PER SBC STD H-3B TO JOIN PROPOSED 12" SBC WATER LINE AT THE DEPTH SHOWN.	1 EA
16) CENTER 20' STICK OF PIPE BELOW STORM DRAIN CROSSINGS, NO JOINTS ARE PERMITTED WITHIN 10' OF STORM DRAIN CROSSING.	2 EA
17) ABANDON EX VALVES BY REMOVING OPERATOR AND VALVE CAN, BACKFILL AND REPAIR PAVING IN ACCORDANCE WITH NOTE 4.	2 EA
18) INSTALL BLOW OFF ASSEMBLY PER SBC STD H-4.	1 EA

UNDERGROUND SERVICE ALERT

Call: TOLL FREE

1-800-227-2600

BENCHMARK:

ELEVATION DETERMINED FROM CORS CONTROL SITES. POINT #1 TRAVPT-SET 1X2 W/TACK FLUSH. NAVD-88 ELEV = 3555.315'

BASIS OF BEARINGS: CCS83 ZONE 5, NAD83(2011), EPOCH 2010.0







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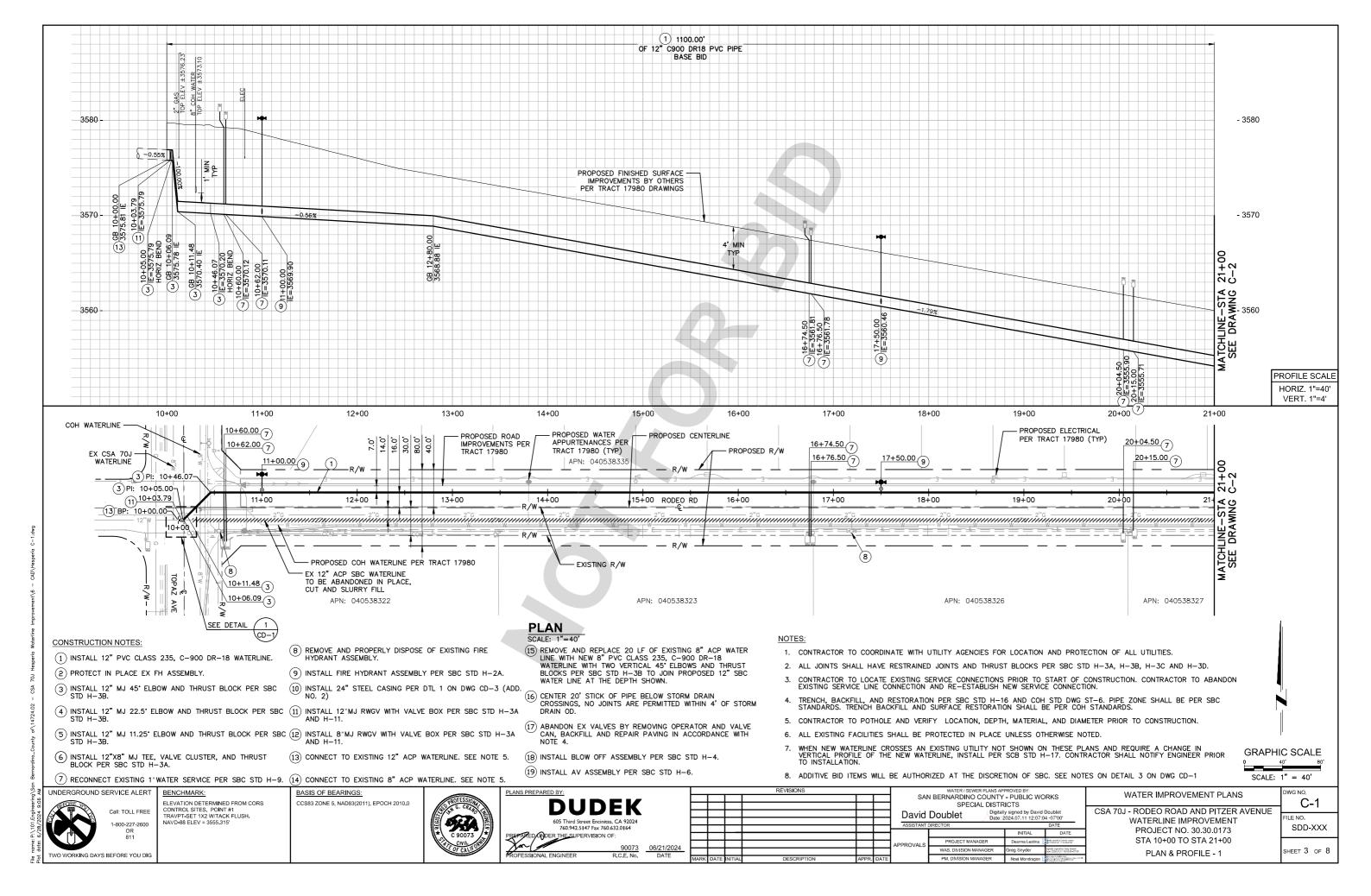
SPECIAL DISTRICTS David Doublet

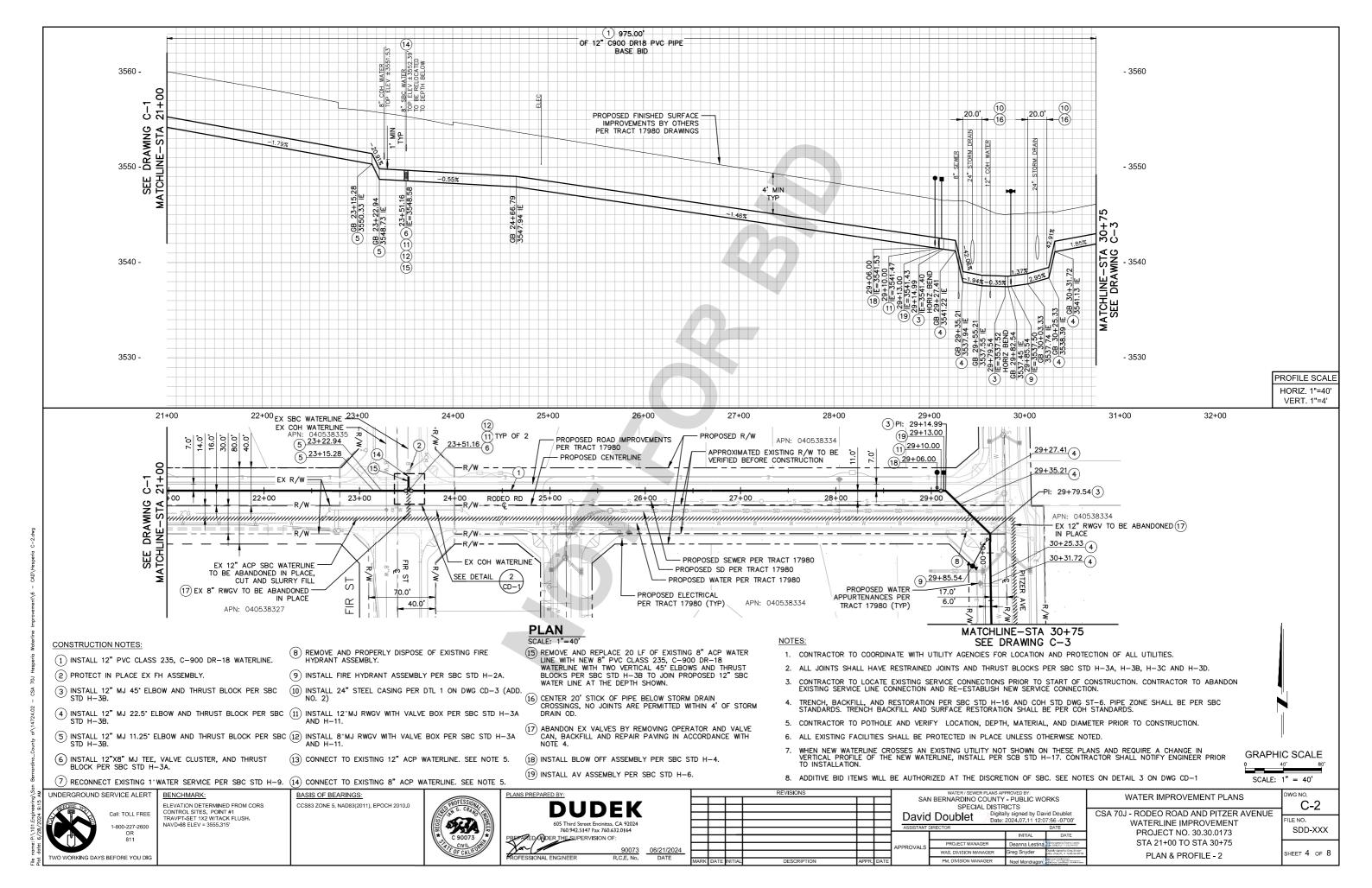
SAN BERNARDINO COUNTY - PUBLIC WORKS

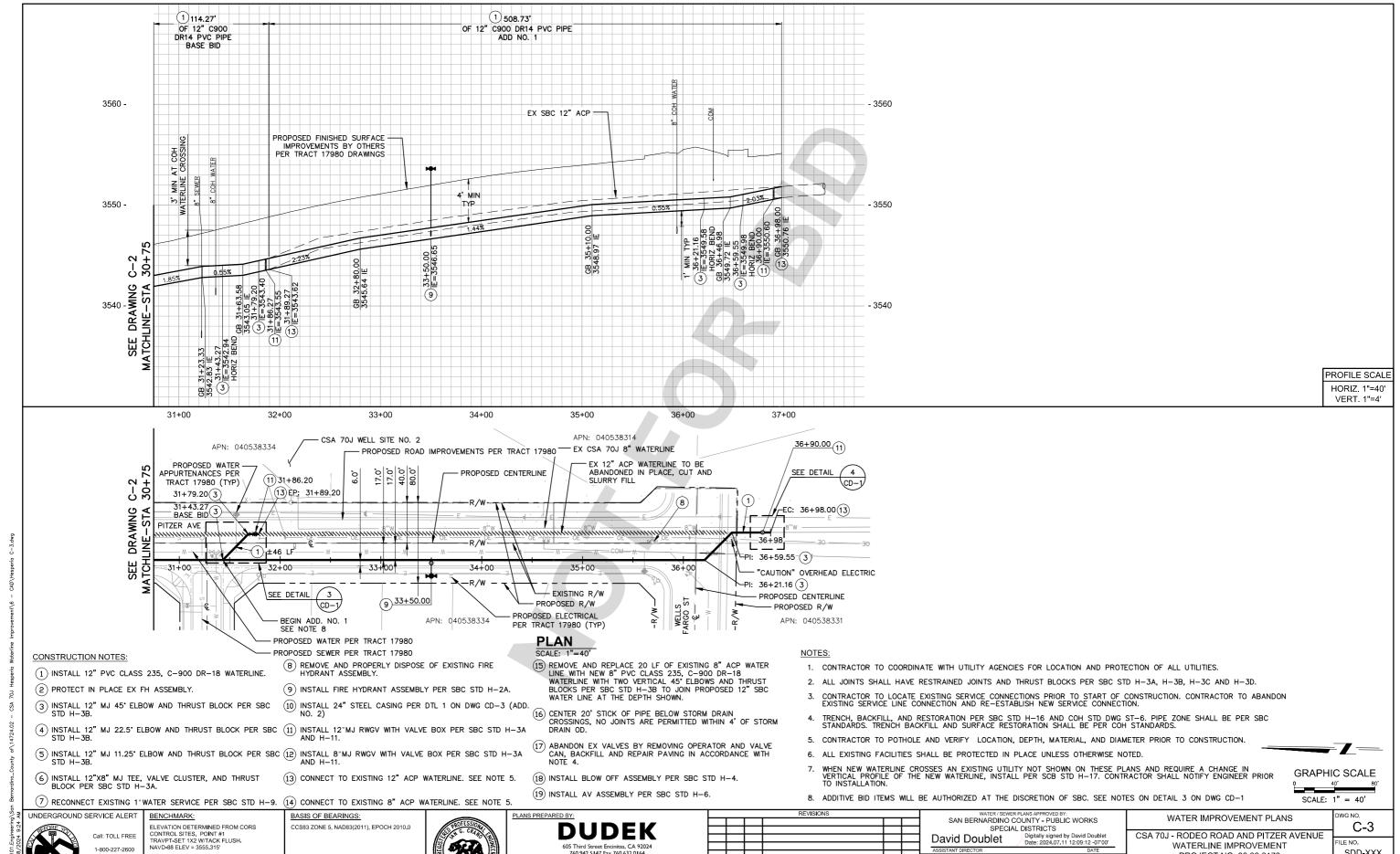
CSA 70J - RODEO ROAD AND PITZER AVENUE WATERLINE IMPROVEMENT PROJECT NO. 30.30.0173 LEGEND, SYMBOLS AND ABBREVIATIONS

WATER IMPROVEMENT PLANS

G-2 ILE NO. SDD-XXX HEET 2 OF 8







SE A

CSA 70J - RODEO ROAD AND PITZER AVENUE

WATERLINE IMPROVEMENT

PROJECT NO. 30.30.0173 STA 30+75 TO STA 36+98

PLAN & PROFILE - 3

SDD-XXX

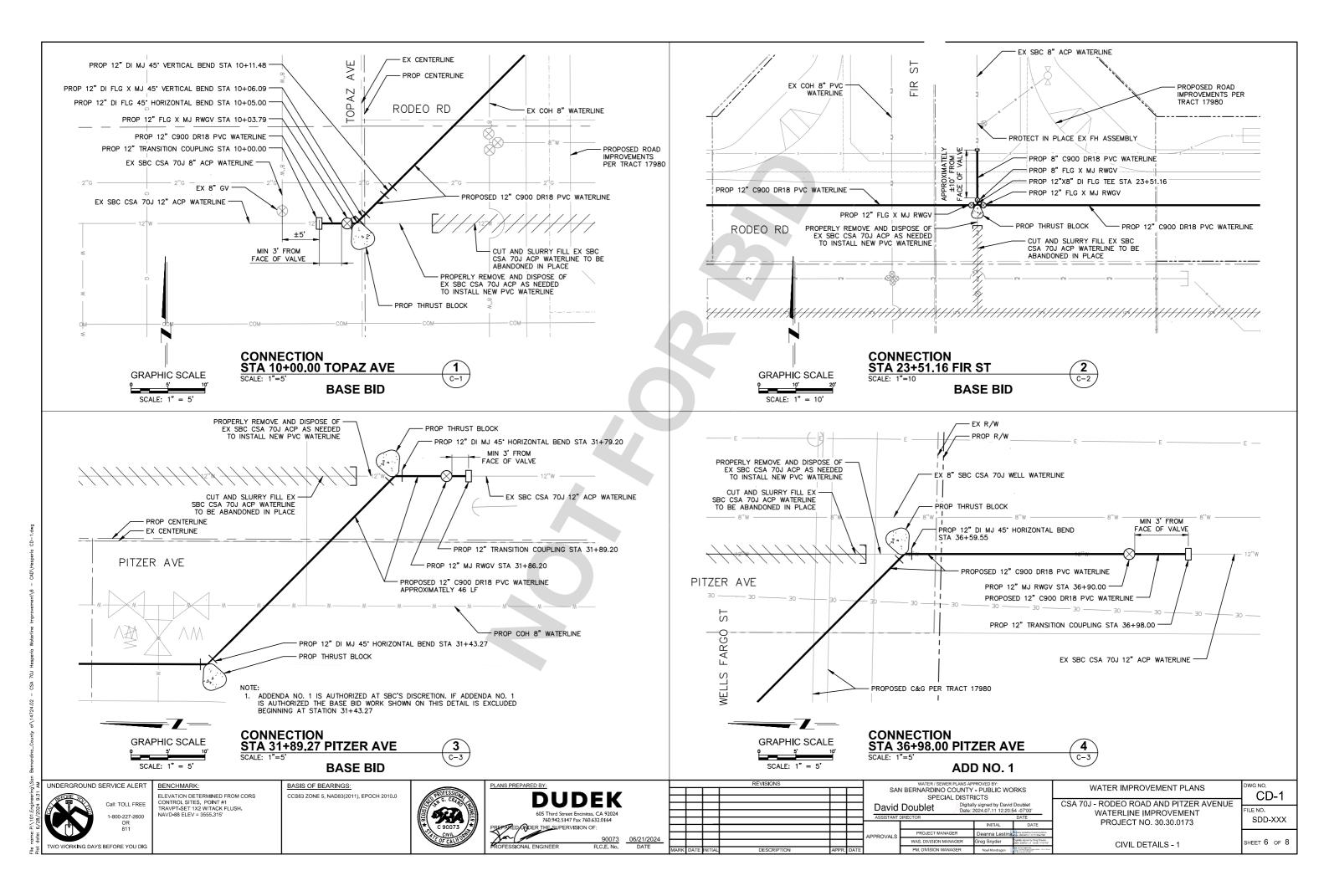
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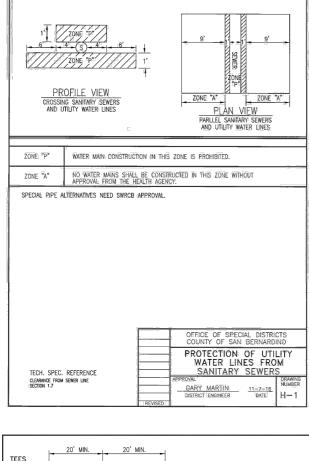
David Doublet

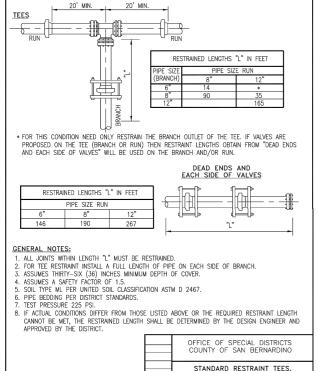
Call: TOLL FREE

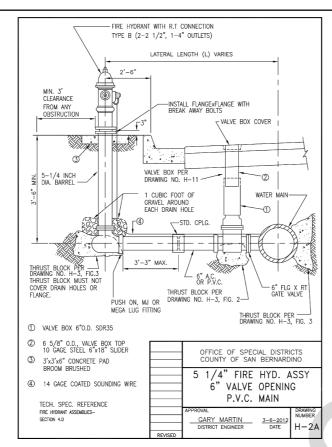
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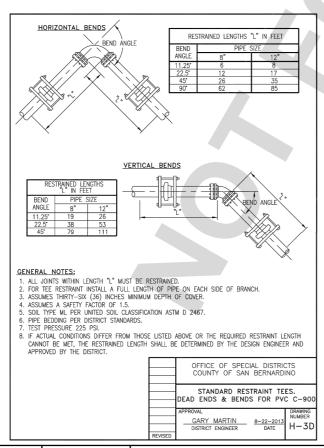
WO WORKING DAYS BEFORE YOU DIG

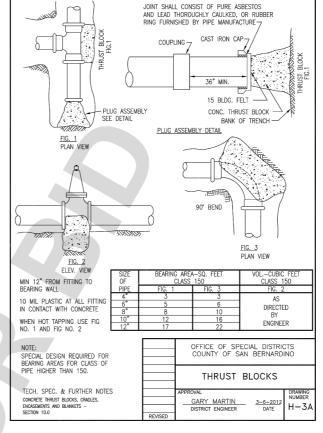


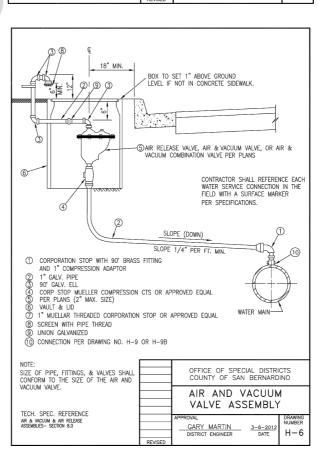


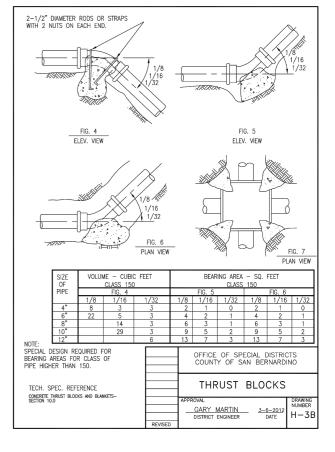


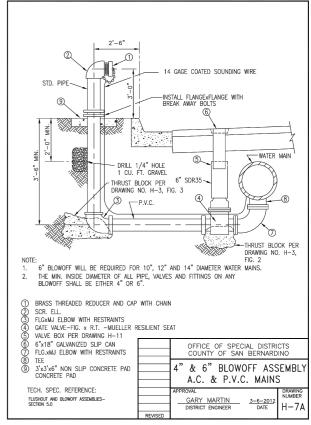














TWO WORKING DAYS BEFORE YOU DIG

Call: TOLL FREE 1-800-227-2600

BENCHMARK: ELEVATION DETERMINED FROM CORS CONTROL SITES. POINT #1 TRAVPT-SET 1X2 W/TACK FLUSH. NAVD-88 ELEV = 3555.315'

DEAD ENDS & BENDS FOR PVC C-9

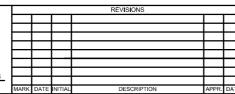
GARY MARTIN 8-22-2013
DISTRICT ENGINEER DATE

BASIS OF BEARINGS: CCS83 ZONE 5, NAD83(2011), EPOCH 2010.0

H-30







SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS David Doublet Digitally signed by David Doublet Date: 2024.07.11 12:21:26 -07'00

CSA 70J - RODEO ROAD AND PITZER AVENUE WATERLINE IMPROVEMENT PROJECT NO. 30 30 0173

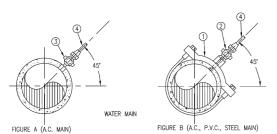
CIVIL DETAILS - 2

CD-2 LE NO.

WATER IMPROVEMENT PLANS

SDD-XXX HEET **7** OF **8**





- SERVICE CLAMP (1)
- CORPORATION STOP. (LP.T.) INLET (2)
- CORPORATION STOP, C.S.T. INLET 3
- SERVICE TUBING 4

CONNECTION REQUIREMENTS

SF	RVICE	SIZE OF A.C. MAIN						
	OUTLET	4"	6"	8"	10" & OVER			
1	"	FIG. B	FIG. B	FIG. B	FIG. A			
- 1	1/4"	NOT PERMITTED	FIG. B	FIG. B	FIG. B			
1	1/2"	NOT PERMITTED	FIG. B	FIG. B	FIG. B			
2'	n '	NOT PERMITTED	NOT PERMITTED	FIG. B	FIG. B			

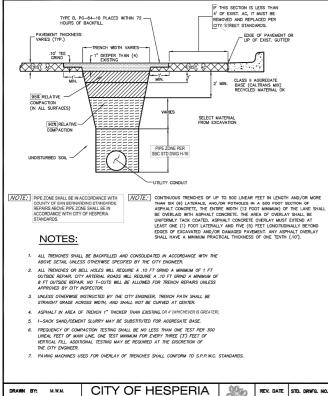
TECH. SPEC. REFERENCE WATER SERVICES - SECTION 7.0

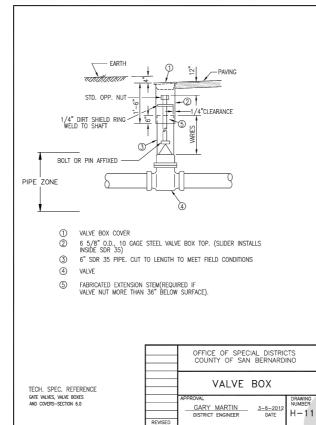
NOTES:

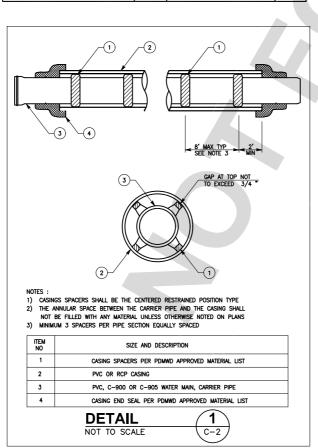
1. IF TWO TAPS ARE MADE, ONE ON EACH SIDE OF THE MAIN, THEY SHALL
BE SEPARATED BY A MINIMUM OF TWO (2) FEET (MEASURED ALONG THE PIPE LENGTH). MAKE TAP A MINIMUM OF TWO (2) FEET FROM THE END

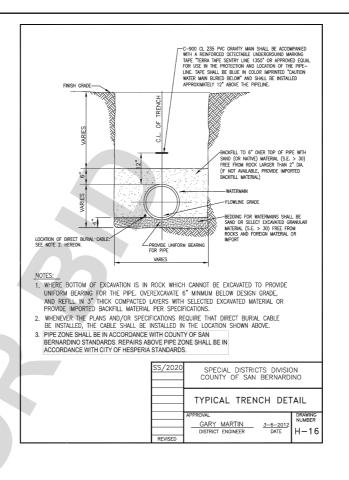
2. PIPE THREADS SHALL BE CLEAN AND SHARP AND SEALED WITH AN APPROVED JOINT COMPOUND.

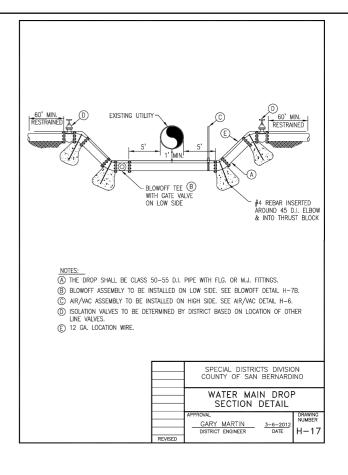
	OFFICE OF SPECIAL DISTRIC COUNTY OF SAN BERNARD	
	SERVICE CONNECTION TO WATER MAINS	
	APPROVAL	DRAWING NUMBER H-9



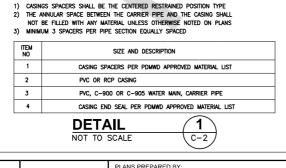














PROVED BY: M JA

03/21/23

Call: TOLL FREE

1-800-227-2600

BENCHMARK: CONTROL SITES. POINT #1
TRAVPT-SET 1X2 W/TACK FLUSH.
NAVD-88 ELEV = 3555.315'

STANDARD TRENCH REPAIR

BASIS OF BEARINGS: CCS83 ZONE 5, NAD83(2011), EPOCH 2010.0

ST-6





	REVISIONS							
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	MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE		

	SAN	N BERNARDINO SPECI		- PUBLIC WO	RKS
David Doublet Digitally signed by David Doublet Date: 2024.07.11 12:23:45-07'00'					
1	ASSISTANT I	DIRECTOR			DATE
1				INITIAL	DATE
APPROVAL	APPROVALS	PROJECT MANA	AGER	Deanna Lestina	Digitally signed by De Date: 2004.07.01 11:

CSA 70J - RODEO ROAD AND PITZER AVENUE WATERLINE IMPROVEMENT PROJECT NO. 30 30 0173

CD-3 SDD-XXX

WATER IMPROVEMENT PLANS LE NO. неет 8 ог 8 CIVIL DETAILS - 3