

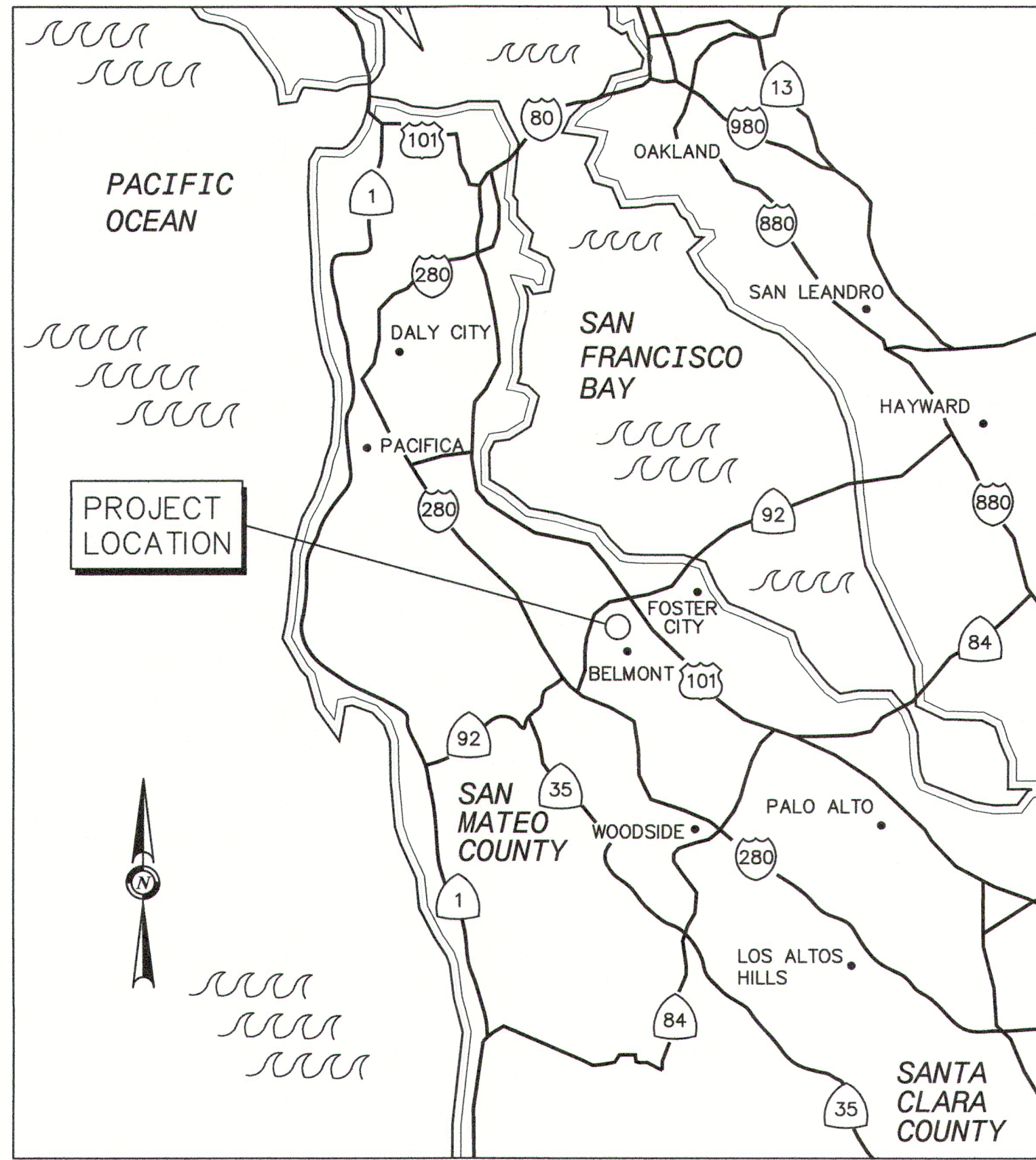


HASTINGS DR, VINE ST, BELMONT CANYON RD WATER MAIN IMPROVEMENTS 09-1621-CP

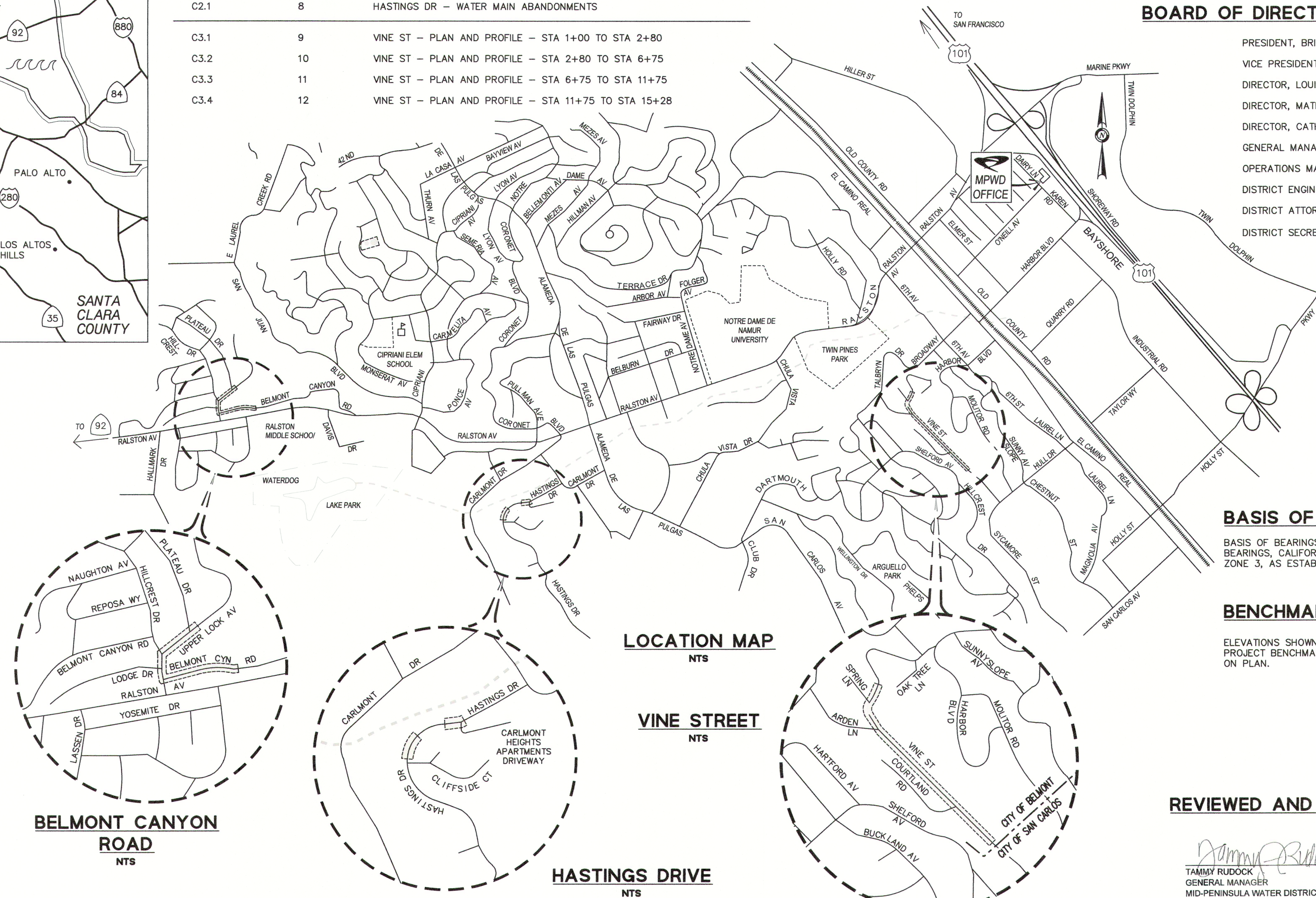
MID-PENINSULA WATER DISTRICT - SAN MATEO COUNTY, CA

SHEET INDEX

PLAN NO.	SHEET NO.	TITLE	PLAN NO.	SHEET NO.	TITLE
G1.1	1	TITLE SHEET, SURVEY NOTES, SHEET INDEX, VICINITY AND LOCATION MAPS, BASIS OF BEARINGS, BENCHMARK	C4.1	13	BELMONT CANYON RD (EAST) - PLAN AND PROFILE - STA 0+70 TO STA 4+63
G1.2	2	SHEET INDEX MAP	C4.2	14	BELMONT CANYON RD - PLAN AND PROFILE - STA 0+75 TO STA 2+55
C1.1	3	NOTES, ABBREVIATION, LEGEND	C4.3	15	UPPER LOCK AV - PLAN AND PROFILE - STA 1+00 TO STA 4+29
C1.2	4	CONSTRUCTION DETAILS	C5.1	16	VINE ST WATER SERVICE SCHEDULE
C1.3	5	CONSTRUCTION DETAILS	C5.2	17	BELMONT CANYON RD WATER SERVICE SCHEDULE
C1.4	6	CONSTRUCTION DETAILS	C6.1	18	HASTINGS DR AND VINE ST STRIPING AND SLURRY SEAL PLAN
C1.5	7	CONSTRUCTION DETAILS	C6.2	19	BELMONT CANYON RD STRIPING AND SLURRY SEAL PLAN
C2.1	8	HASTINGS DR - WATER MAIN ABANDONMENTS			
C3.1	9	VINE ST - PLAN AND PROFILE - STA 1+00 TO STA 2+80			
C3.2	10	VINE ST - PLAN AND PROFILE - STA 2+80 TO STA 6+75			
C3.3	11	VINE ST - PLAN AND PROFILE - STA 6+75 TO STA 11+75			
C3.4	12	VINE ST - PLAN AND PROFILE - STA 11+75 TO STA 15+28			



VICINITY MAP
NTS



BELMONT CANYON ROAD
NTS

LOCATION MAP
NTS

VINE STREET
NTS

HASTINGS DRIVE
NTS

BOARD OF DIRECTORS AND STAFF

- PRESIDENT, BRIAN SCHMIDT
- VICE PRESIDENT, KIRK R WHEELER
- DIRECTOR, LOUIS VELLA
- DIRECTOR, MATHEW P ZUCCA
- DIRECTOR, CATHERINE MOSTASISA WRIGHT
- GENERAL MANAGER, TAMMY RUDOCK
- OPERATIONS MANAGER, RENE A RAMIREZ
- DISTRICT ENGINEER, JOUBIN PAKPOUR, P.E.
- DISTRICT ATTORNEY, JULIE SHERMAN
- DISTRICT SECRETARY, CANDY PIÑA

BASIS OF BEARINGS

BASIS OF BEARINGS FOR THIS SURVEY IS GRID BEARINGS, CALIFORNIA STATE PLAN COORDINATES, ZONE 3, AS ESTABLISHED BY OPUS SOLUTION.

BENCHMARK

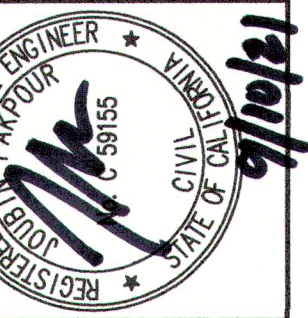
ELEVATIONS SHOWN ARE BASED ON NVGD 88 DATUM. PROJECT BENCHMARKS ARE AS SHOWN AND NOTED ON PLAN.

REVIEWED AND APPROVED BY

TAMMY RUDOCK
GENERAL MANAGER
MID-PENINSULA WATER DISTRICT
DATE: 9/10/2021

REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'D



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS
TITLE SHEET, SURVEY NOTES, SHEET INDEX
VICINITY AND LOCATION MAPS

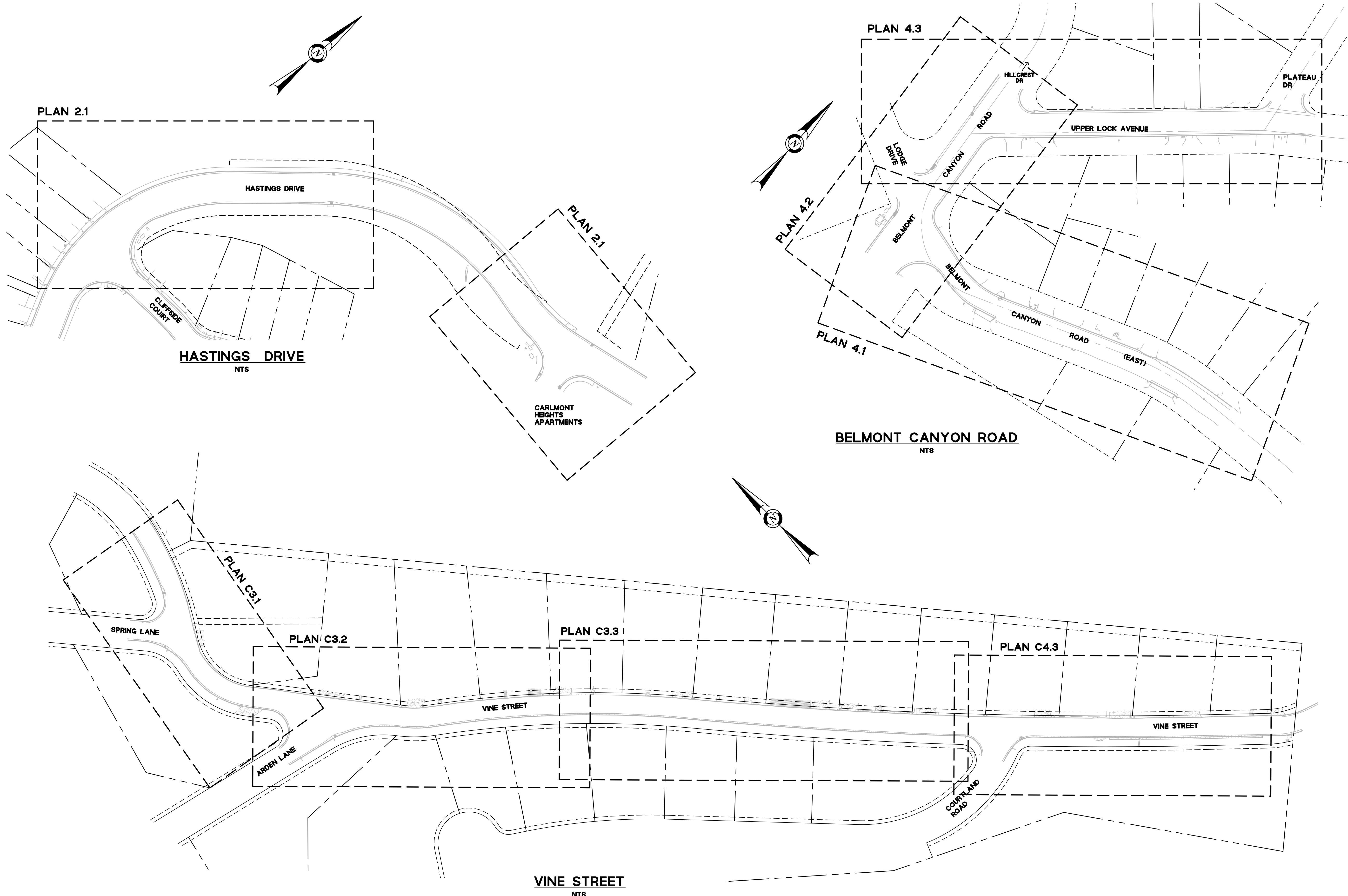
DATE	09/03/21	SCALE	AS NOTED
PGC JOB NO.	10012.26		
PLAN	G1.1		
SHEET	1 OF 19		

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

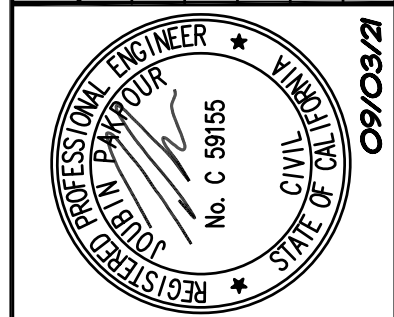
DRAWING NAME: I:\CADD\10012\09\03\Sheet\Final\Submittal\09-1621-CP-H1R1S.dwg
PLOT DATE: 09-16-21 PLOTTED BY: vfang

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\091226\Plan Sheets\Final\Submittal\02-HYDROINDEX.PLT
PLOT DATE: 09/03/21, PLOTTED BY: VFW



NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS

SHEET INDEX MAP

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO. 10012.26
PLAN **G12**
SHEET **2** OF **19**

GENERAL NOTES

- THE DEPICTION OF UNDERGROUND UTILITY LINES ARE BASED UPON ASSUMPTIONS PER U.S.A. MARKINGS OBSERVED IN THE FIELD. NO AS-BUILT UTILITY PLANS WERE PROVIDED FOR VERIFICATION OF THESE UTILITY LOCATIONS. CONTRACTOR TO VERIFY LOCATIONS. UTILITY LOCATIONS AND CLEARANCES ARE APPROXIMATE. CONTACT U.S.A. (CALL 811) 3 DAYS BEFORE EXCAVATION TO MARK EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE FOR UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ADJUST THE GRADE OF THE WATER MAIN TO MAINTAIN DESIRED CLEARANCES PER DISTRICT STANDARDS. NO PIPE SHALL BE INSTALLED UNTIL POTHOLES IS COMPLETED. NO ADDITIONAL PAYMENT WILL BE MADE FOR GRADE ADJUSTMENTS OF LESS THAN 24" UNLESS EXTRA MATERIALS ARE REQUIRED SUCH AS FITTINGS OR CONCRETE ENCASUREMENT.
- ALL CONSTRUCTION MUST BE TO THE MID-PENINSULA WATER DISTRICT, CITY OF BELMONT, COUNTY OF SAN MATEO, CALTRANS STANDARDS AND ACCEPTED BY THE DISTRICT. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR SITE INSPECTIONS AND ENSURING ALL CURRENT STANDARDS FOR THE CITY, COUNTY AND THE DISTRICT ARE FOLLOWED PRIOR TO BEGINNING ANY CONSTRUCTION PHASE.
- ALL NEW WATER MAIN, INCLUDING TIE-INS, SHALL BE CONSTRUCTED ENTIRELY OF CLASS 350 DUCTILE IRON PIPE. PIPE AND FITTINGS SHALL ALL HAVE RESTRAINED OR MECHANICAL JOINTS AT ALL FITTINGS, HYDRANT RUNS, AND TIE-INS. PIPE BONDING REQUIRED AT NEW WATER MAIN PER PLAN C1.4.
- DUST CONTROL DURING ALL PHASES OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN GOOD HOUSEKEEPING OF (E) IMPROVEMENTS IN THE CONSTRUCTION AREA. CONTRACTOR SHALL PROTECT EXCAVATED SPOILS PER THE WATER POLLUTION CONTROL PLAN AS SPECIFIED IN THE SPECIFICATIONS.
- NO ASPHALT SHALL BE DELIVERED TO THE JOB SITE AFTER 3:00 P.M. ON ANY DAY WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DISTRICT. NO SLURRY SEAL SHALL BE PLACED AFTER 2:00 P.M.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (INCLUDING ANY STREET CLOSURE DETAILS AND DETOUR PLANS), PREPARED AND SIGNED BY A TRAFFIC ENGINEER, FOR REVIEW AND COMMENTS BY THE DISTRICT AND THE CITY PRIOR TO BEGINNING WORK. ALLOW 2 WEEKS FOR REVIEW AND COMMENTS.
- ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTORE ANY AND ALL PAVEMENT AND OTHER FACILITIES OUTSIDE LIMITS OF WORK AFFECTED BY THE CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT (E) CONDITIONS PRIOR TO START OF WORK TO SUBSTANTIATE ANY PRE-EXISTING DAMAGE.
- TIE-INS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL NOT BE ENTITLED TO EXTRA PAYMENT IF ADDITIONAL PIPE, COUPLINGS, SLEEVES OR OTHER APPURTENANCES ARE REQUIRED TO COMPLETE A TIE-IN.
- PIPE BEDDING AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH DETAILS (1/C1.2) THROUGH (4/C1.2).
- PROCEDURES FOR ABANDONING (E) PIPE ARE INCLUDED IN SECTION 02111 "ABANDONMENT OF EXISTING FACILITIES".
- THE WATER SYSTEM SHALL REMAIN IN SERVICE THROUGHOUT THE PROJECT. SERVICE INTERRUPTIONS SHALL BE MINIMIZED AND SHALL BE COORDINATED WITH THE DISTRICT AT (650) 591-8941. THE CONTRACTOR SHALL NOT OPERATE ANY DISTRICT OWNED VALVES AND HYDRANTS UNLESS AUTHORIZED BY THE DISTRICT.
- THE CONTRACTOR SHALL NOT OPERATE DISTRICT FACILITIES UNLESS DIRECTED BY THE DISTRICT.
- THE DISTRICT SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE FOR ANY SCHEDULED TIE-INS. NO TIE-INS OR SHUTDOWNS ARE ALLOWED ON MONDAYS AND FRIDAYS OR THE DAY PRECEDING A HOLIDAY. ONLY TWO SHUT DOWNS PER WEEK ARE ALLOWED.
- THE CONTRACTOR SHALL DESIGNATE A PERSON TO CONTACT SHOULD PROBLEMS OCCUR DURING NON-WORKING HOURS. THE DISTRICT SHALL BE GIVEN THAT PERSON'S NAME AND PHONE NUMBER.
- WATER STRUCTURES REMOVED FROM THE GROUND NOT LIMITED TO GATE VALVES, CHECK VALVES, COPPER SERVICE LINES, ETC SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY.
- DEFLECT PIPE JOINTS ±3 DEGREES AS RECOMMENDED BY THE MANUFACTURER TO MAINTAIN ALIGNMENT.
- (E) WATER MAIN ELEVATIONS ARE APPROXIMATE AND BASED ON NEARBY GATE VALVE NUT DEPTHS.
- (E) STORM DRAIN AND SANITARY SEWER MAIN ELEVATIONS ARE APPROXIMATE AND BASED ON NEARBY MANHOLE/CATCH BASIN INVERTS.
- TIE-INS TO (E) WATER MAIN SHALL BE 30" MIN AWAY FROM A SLEEVE OR AS DIRECTED BY THE DISTRICT.
- SHORING IS REQUIRED FOR TRENCH DEPTHS GREATER THAN 5 FEET (60").

CONSTRUCTION LEGEND

- POTHOLE IS REQUIRED AT ALL MARKED UTILITY CROSSINGS ALONG THE ALIGNMENT OF THE WATER MAIN TO AVOID POSSIBLE CONFLICT. DOCUMENT AND VERIFY THE SIZE, DEPTH OF ALL MARKED OR UNMARKED UTILITIES IN THE PROJECT. ADJUST THE GRADE OF THE WATER MAIN AND SERVICE CONNECTIONS TO MAINTAIN SPECIFIED CLEARANCES. ANY ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR THE WATER MAIN INSTALLATION.
AT ALL TIE-IN CONNECTIONS TO (E) WATER MAIN: USE A 12" LONG DISTRICT APPROVED COUPLING OR SLEEVE.
- CAUTION:** LOW OVERHEAD LINES.
- REMOVE PORTION OF (E) WATER MAIN AND APPURTENANCES (GATE VALVE, FITTINGS, OR HYDRANT ETC) TO COMPLETE THE FOLLOWING: (A) TIE-IN CONNECTIONS, (B) WATER MAIN INSTALLATION, (C) INSTALLATION OF APPURTENANCES (GATE VALVE, BLOW-OFF, ARV, HYDRANT ETC) OR (D) WATER MAIN ABANDONMENT.
- ABANDON WATER MAIN.
- REPLACE CURB/GUTTER, SIDEWALK, AND/OR CONCRETE GUTTER PER THE CITY OF BELMONT STANDARD DETAILS FOUND IN THE APPENDIX OF THE PROJECT SPECIFICATIONS. REMOVE TO THE NEAREST SCORE LINE AS DIRECTED BY THE DISTRICT AND APPROVED BY THE CITY.
- DRAIN (E) WATER MAIN FOR ABANDONMENT OR FOR WATER MAIN CONNECTION- PROPERLY INSTALL BMP'S AT ALL INLETS PRIOR TO CUTTING PIPE. WATER SHALL BE PUMPED OUT FROM THE TRENCH INTO AN APPROVED FILTER SOCK WITH DECHLORINATION TABLETS. NO EXCEPTIONS. INSTALL A CONCRETE PLUG AT THE END OF THE ABANDON WATER MAIN AS SHOWN ON THE PLANS.
- GAVE VALVE REMOVAL**
PAVED AREA: SAW-CUT 1 FOOT AROUND THE GV COVER TO REMOVE BOX AND PVC RISER. FOR MULTIPLE VALVES, EXTEND THE AREA TO INCLUDE ALL THE VALVES. BACKFILL WITH CLASS 2 AB AND COMPACT OT 95% RC AND PAVE THE AREA.
DIRT AREA: REMOVE VALVE BOX, LID, AND RISER. BACK FILL WITH NATIVE AND COMPACT 90% RC. LANDSCAPE AREAS: RESTORE IN KIND.
- INSTALL OVER THE (E) WATER MAIN.
- ABANDON (E) FH ASSEMBLY IN PLACE - REMOVE FIRE HYDRANT AND CHECK VALVE (IF ANY). CUT BURY 6" BELOW GRADE AND FILL WITH 2-SACK SLURRY. RESTORE SURFACE TO (E) CONDITIONS PER DETAILS SHOWN ON DETAIL 1 THRU 4, PLAN SHEET C1.2.
- REMOVE AND REPLACE GATE VALVE BOX PER (5/C1.2).

EXISTING UTILITIES, SEWER LATERAL AND BURIED STRUCTURES

- EXISTING UTILITIES SHOWN ARE SHOWN BASED ON SURVEY INFORMATION AND ARE APPROXIMATE IN LOCATION AND DEPTH. AS PART ON CONSTRUCTION, CONTRACTOR SHALL BE POTHOLE ALL MARKED UTILITIES TO DETERMINED THE DEPTH ON THE NEW WATER MAIN.
- CONTRACTOR SHALL SUPPORT CROSSINGS AND PARALLEL UTILITIES EXPOSED DURING CONSTRUCTION.
- NOT ALL UTILITY SERVICE LATERALS ARE SHOWN ON THE PLANS. THOSE THAT ARE SHOWN MAY NOT BE AT THEIR TRUE LOCATIONS.
- SEWER LATERALS ARE NOT MARKED AND WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGED LATERAL SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE. CONTRACTOR SHALL HAVE REPAIR CLAMPS AVAILABLE ON SITE TO REPAIR ON THE SPOT.
- DAMAGE TO UTILITIES, INCLUDING SERVICES AND LATERALS, RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPORTED IMMEDIATELY TO THE CITY AND UTILITY OWNER, AND SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT. COSTS INCURRED BY UTILITY SERVICE INTERRUPTION RESULTING FROM THE CONTRACTOR'S OPERATION SHALL ALSO BE ENTIRELY REIMBURSED BY THE CONTRACTOR.
- WHEN AN UNMARKED UTILITY IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND THE CITY TO INVESTIGATE AND RESEARCH THE UNMARKED UTILITY. ALLOW 72 HOURS RESPONSE PERIOD BY THE DISTRICT AND CITY. CONTRACTOR SHALL ALSO CONTACT USA TO CONFIRM THE UNMARKED UTILITY WAS NOT MISSED BY THE UTILITY COMPANIES.
- NO BENDS OR JOINTS WITHIN 10 LF OF SANITARY SEWER MAIN CROSSING WILL BE ALLOWED UNLESS OTHERWISE DIRECTED BY THE DISTRICT.

DISTRICT REPRESENTATION AND PUBLIC RELATIONS SPECIAL PROVISIONS

- THE CONTRACTOR WILL BE REPRESENTING THE DISTRICT DURING THE COURSE OF THIS PROJECT. CONTRACTOR SHALL ACT AND BEHAVE IN A PROFESSIONAL MANNER AT THE JOB SITE AND WITHIN THE VICINITY AT ALL TIMES. A COPY OF THE COMPANY'S EMPLOYEE AND WORKPLACE HANDBOOK SHALL BE KEPT ON SITE. ANY WORKER(S) NOT ADHERING TO THE POLICY WILL BE ASKED TO BE REMOVED FROM THE PROJECT. THE DISTRICT HAS ZERO TOLERANCE FOR DESTRUCTIVE BEHAVIOR TOWARDS STAFF, WORKERS, AND HOMEOWNERS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AT ALL TIMES.
- WORK HOURS ARE 8:00 AM TO 5:00 PM MONDAY THRU FRIDAY. CONSTRUCTION EQUIPMENT (COMPRESSORS, BACK-HOE, ETC) CANNOT BE TURNED ON BEFORE 8:00 AM TO IDLE.
- HOUSEKEEPING: CONTRACTOR SHALL KEEP GARBAGE CONTAINED AND REMOVED FROM THE SITE AT THE END OF EACH DAY. NO EXCEPTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE JOB SITE. SAFETY MEASURES SHALL BE IMPLEMENTED AT THE END OF EACH WORK DAY.

ABBREVIATIONS

ABN	ABANDON	DWY	DRIVEWAY	PVC	POLYVINYL CHLORIDE
AC	ASPHALT CONCRETE	E	EAST / ELECTRIC	RC	SERVICE RECONNECTION
ACP	ASBESTOS CEMENT PIPE	(E)	EXISTING	REQD	REQUIRED
AD	AREA DRAIN	EB	ELECTRIC BOX	RET WALL	RETAINING WALL
A.E.	ANCHOR EASEMENT	ED	EDGE	R/W	RIGHT OF WAY
APPROX	APPROXIMATE(LY)	ELEC	ELECTRIC	S	SOUTH
ARV	AIR RELEASE VALVE	ELEV	ELEVATION	SC	SERVICE CONNECTION
ASMBLY	ASSEMBLY	EP	EDGE OF PAVEMENT	SD	STORM DRAIN
ATS	ANODE TEST STATION	ER	EDGE OF ROAD	SDCI	STORM DRAIN CURB INLET
AVE	AVENUE	EV	ELECTRIC VAULT	SDDI	STORM DRAIN DROP INLET
BAB	BACK AC BERM	FDC	FIRE UTILITY	SDMH	STORM DRAIN MANHOLE
BCR	BELMONT CANYON ROAD	FH	FIRE HYDRANT	SRV	SERVICE
BEG	BEGINNING	FL	FLOW LINE	SS	SANITARY SEWER
BF	BOTTOM FACE	FNC	FENCE	SSMH	SANITARY SEWER MANHOLE
BFV	BACKFLOW VALVE	FND	FOUND	STA	STATION
BK	BREAKLINE	FT	FEET	STL	STEEL
BL	BUILDING	G	GAS	SW	SIDEWALK
BMPs	BEST MANAGEMENT PRACTICES	GND	GROUND	TB	THRUST BLOCK
BO	BLOW OFF VALVE	GV	GATE VALVE	TBC	TOP BACK OF CURB
BSW	BACK OF SIDEWALK	HP	HIGH POINT	TBM	TEMPORARY BENCHMARK
BW	BOTTOM OF WALL	HYD	HYDRANT	TBRC	TOP BACK OF ROLL CURB
BRC	BACK ROLL CURB	IJTS	INSULATING JOINT TEST STATION	TELE	TELEPHONE
BRT	BOTTOM OF RETAINING WALL	IN	INCHES	TEMP	TEMPORARY
CAV	COMBINATION AIR VALVE	INV	INVERT	TFB	TOP FACE BERM
CB	CATCH BASIN	IP	IRON PIPE	TFC	TOP FACE CURB
CG	CURB & GUTTER	JT	JOINT TRENCH	TOP	TOP OF PIPE
CC	CONCRETE	LA	LANDSCAPE AREA/STRIP	TRANS	TRANSFORMER
CCP	CONCRETE CYLINDER PIPE	LB	POUNDS	TP	TOP PAVEMENT
CIP	CAST IRON PIPE	LF	LINEAR FEET	TW	TOP OF WALL
CL	CENTERLINE	LG	LIP OF GUTTER	TYP	TYPICAL
CLR	CLEARANCE	MB	MAIL BOX	UB	UTILITY BOX
CM	CORRUGATED METAL	MG	MAGNESIUM	ULA	UPPER LOCK AVENUE
CN	CORNER	MH	MANHOLE	UNK	UNKNOWN
CO	CLEAN OUT	MIN	MINIMUM	UV	UTILITY VAULT
CONC/CNC	CONCRETE	MJ	MECHANICAL JOINT	USA	UNDERGROUND SERVICE ALERT
CONN	CONNECTION	MPWD	MID-PENINSULA WATER DISTRICT	VIF	VERIFY IN THE FIELD
CT	COURT	MT	METER	VL	VALVE
CVR	COVER	MON	MONUMENT	VND	VALVE NUT DEPTH
CYN	CANYON	N	NORTH	VS	VINE STREET
D.E.	DRIVEWAY EASEMENT	(N)	NEW	W	WATER
DI	DRAIN INLET	NIC	NOT IN CONTRACT	W/	WITH
DIA	DIAMETER	OD	OUTER DIAMETER	WD	WOOD FENCE
DIP	DUCTILE IRON PIPE	PG&E	PACIFIC GAS & ELECTRIC	WMB	WATER METER BOX
DT	DIRT	PH	POTHOLE	WV	WATER VAULT
DISTRICT	MID-PENINSULA WATER DISTRICT	PP	POWER POLE	WVT	WATER VAULT
DR	DRIVE	PRV	PRESSURE REDUCING VALVE	XING	CROSSING
		PUE	PUBLIC UTILITY EASEMENT	Z	ZONE

LEGEND

PROPOSED	EXISTING

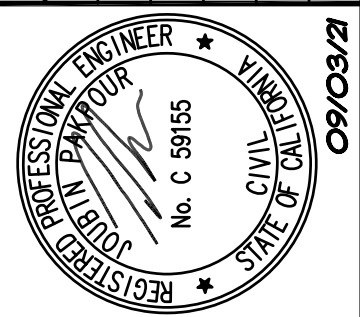


FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\0012_20\Plan Sheets\Final Submittal\03_HYDRO03.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW

REVISIONS

NO.	DESCRIPTION	BY	DATE



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

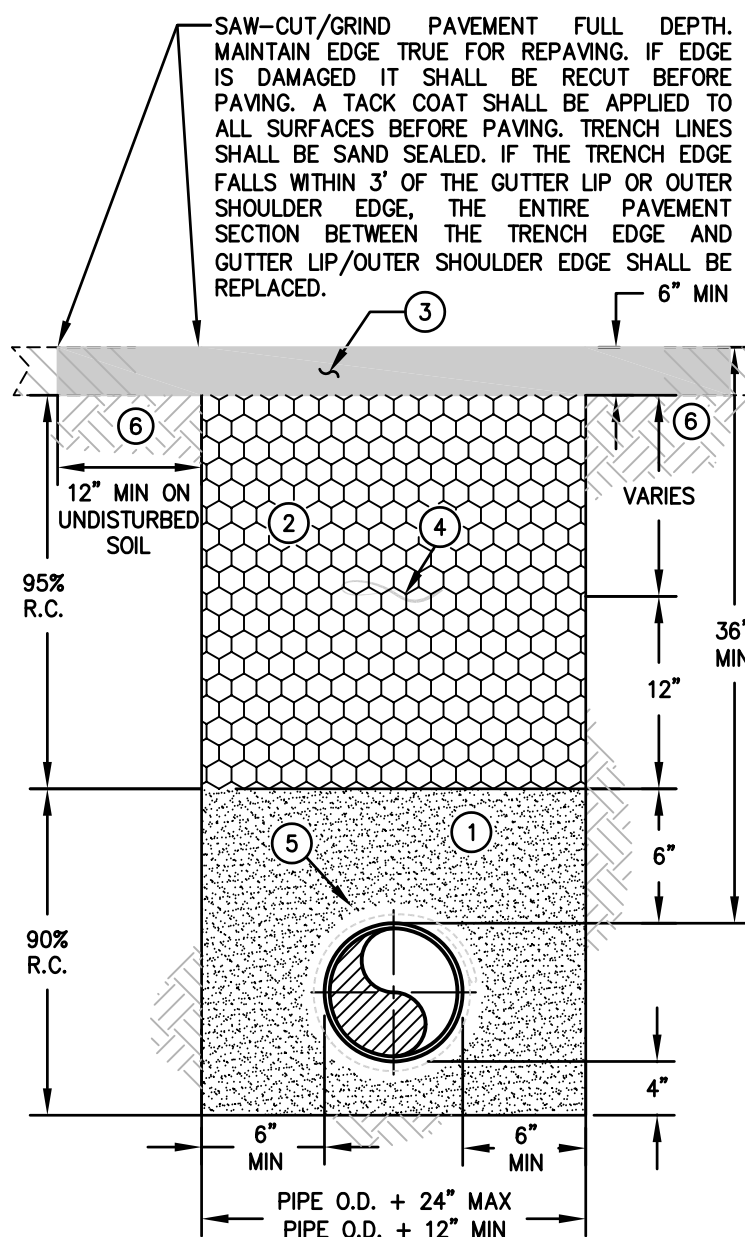
CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS
GENERAL NOTES, CONSTRUCTION LEGENDS, ABBREVIATIONS AND SPECIAL PROVISIONS

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26

PLAN: C1.1
SHEET: 3 OF 19

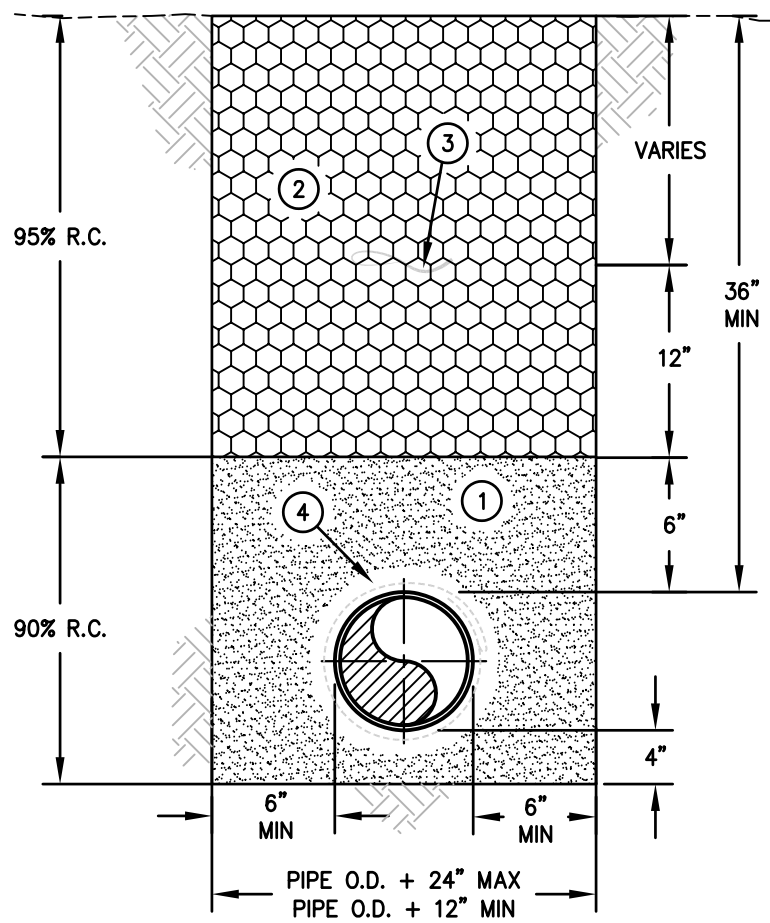


- LEGEND**
- EMBEDMENT ZONE (QUARRY FINES) SHALL BE PLACED IN THREE LIFTS.
 - LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
 - LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE. POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
 - LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
 - UPPER TRENCH ZONE (CLASS 2 AGGREGATE BASE) SHALL BE PLACED AND COMPACTED IN 12" LIFTS.
 - ASPHALT CONCRETE SHALL BE REPLACED IN KIND BUT NO LESS THAN 6" IN DEPTH.
 - MARKER TAPE TO BE INSTALLED 18" ABOVE WATER MAIN.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".
 - A SECOND OPERATION IS REQUIRED PRIOR TO FINAL PAVING TO ACHIEVE THE "T" CUT SECTION. SAW CUTTING/GRINDING A WIDER TRENCH LINE DURING INITIAL TRENCH EXCAVATION TO ACHIEVE A "T" CUT SECTION IS NOT PERMITTED.

- NOTES**
- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
 - IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

**1 TRENCH SECTION - TYPE A
PAVED SURFACES**

NTS



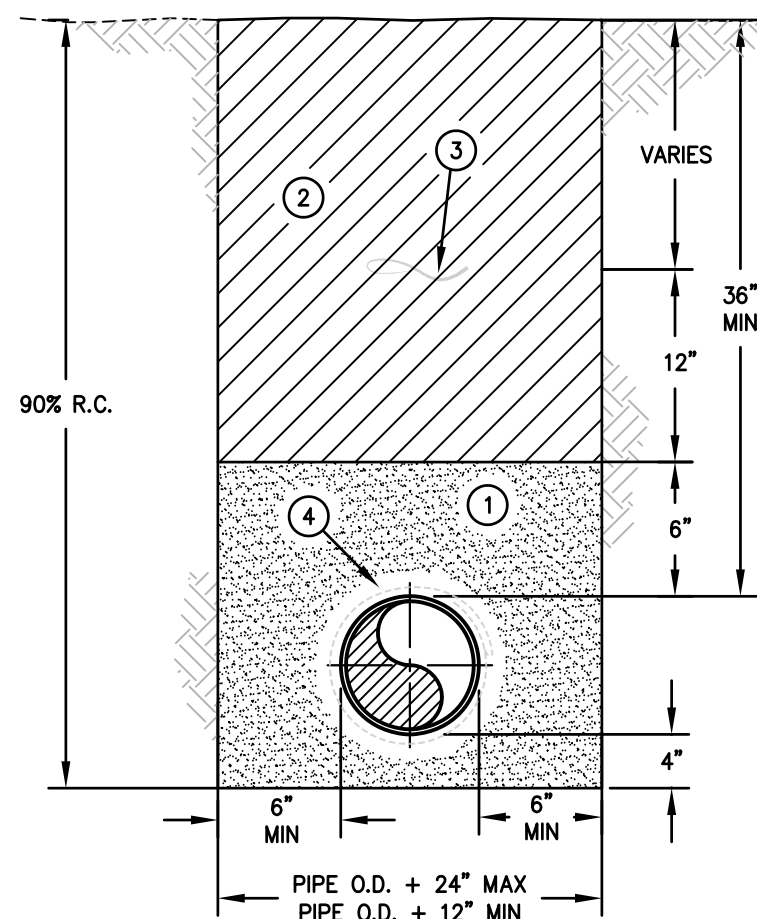
- LEGEND**
- EMBEDMENT ZONE (QUARRY FINES) SHALL BE CONSTRUCTED IN THREE LIFTS.
 - LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
 - LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE. POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
 - LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
 - UPPER TRENCH ZONE (CLASS 2 AGGREGATE BASE) SHALL BE PLACED AND COMPACTED IN 12" LIFTS.
 - MARKER TAPE TO BE INSTALLED 18" ABOVE WATER MAIN.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".

NOTES

- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
- IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

**2 TRENCH SECTION - TYPE B
GRAVELED AREAS/ROAD SHOULDERS**

NTS



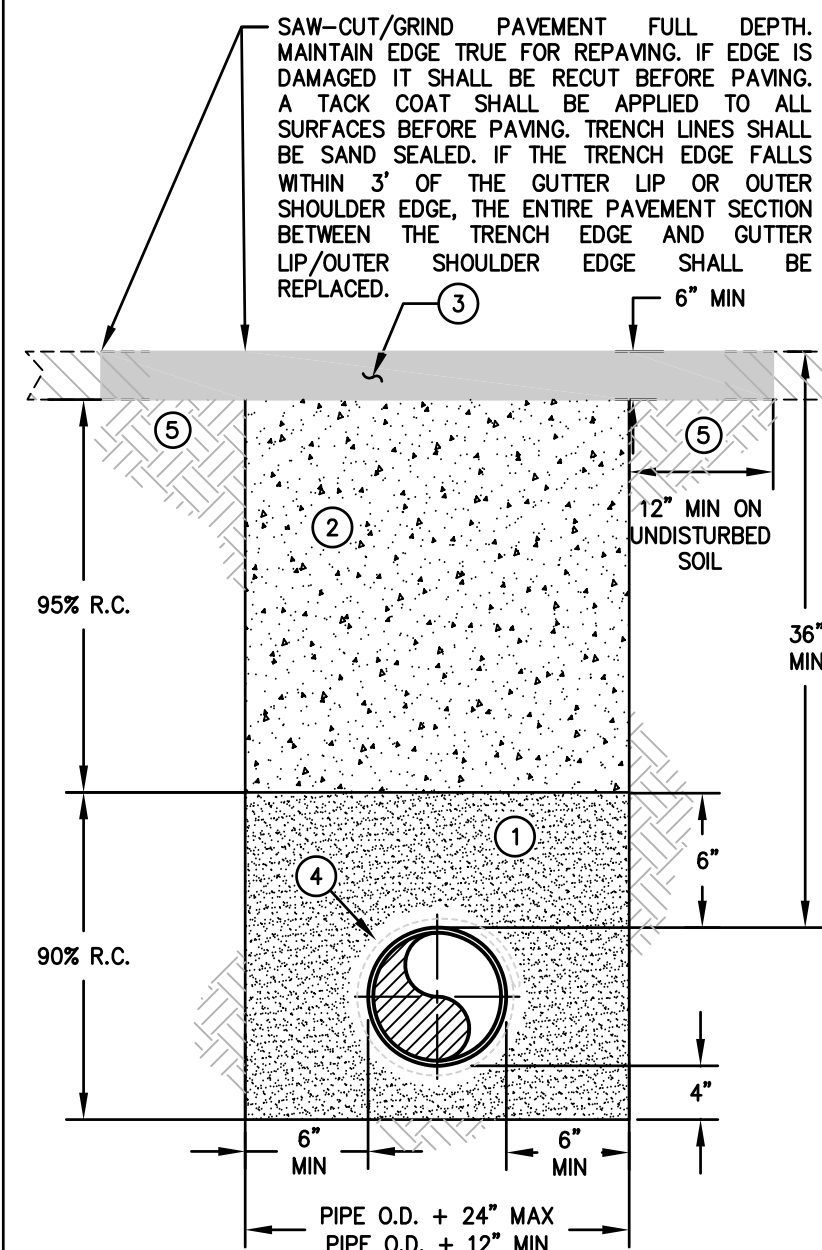
- LEGEND**
- EMBEDMENT ZONE (QUARRY FINES) SHALL BE CONSTRUCTED IN THREE LIFTS.
 - LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
 - LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE. POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
 - LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
 - UPPER TRENCH ZONE (NATIVE MATERIAL) SHALL BE PLACED AND COMPACTED IN 12" LIFTS.
 - MARKER TAPE TO BE INSTALLED 18" ABOVE WATER MAIN.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".

NOTES

- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
- IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

**3 TRENCH SECTION - TYPE C
UNIMPROVED AREA**

NTS



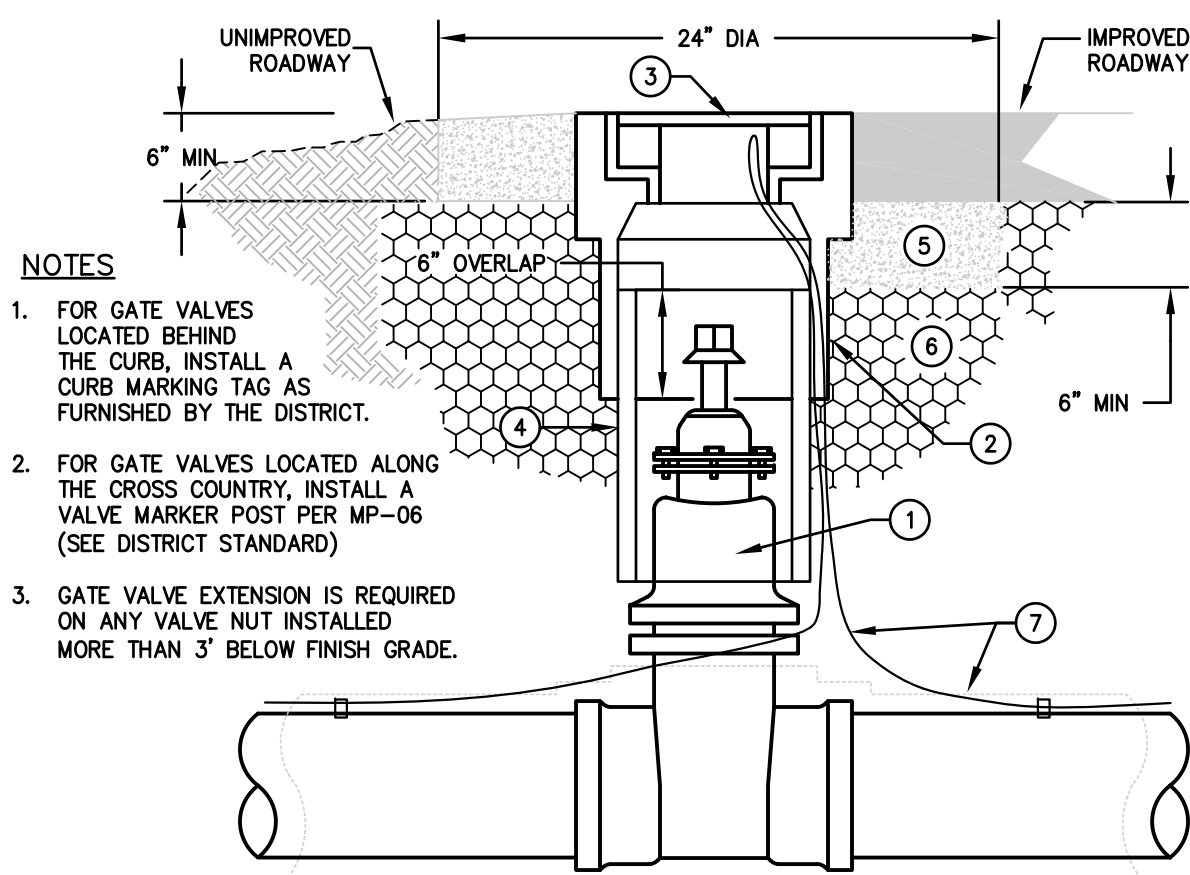
- LEGEND**
- EMBEDMENT ZONE (QUARRY FINES) SHALL BE PLACED IN THREE LIFTS.
 - LIFT ONE - SHALL CONSIST OF PLACING AND COMPACTING 4" OF MATERIAL PRIOR TO THE PLACEMENT OF THE PIPE. THE PIPE SHALL THEN BE PLACED PRIOR LIFT TWO.
 - LIFT TWO - SHALL CONSIST OF PLACING MATERIAL AROUND THE PIPE TO THE TOP OF THE PIPE. THE TOP OF THE PIPE SHALL BE VISIBLE PRIOR COMPACTION OF THE SECOND LIFT. COMPACTION AROUND THE PIPE SHALL BE PERFORMED BY PNEUMATIC MEANS SUCH AS A "POWDER PUFF." NO OTHER MEANS OF COMPACTION SHALL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE DISTRICT. CONTRACTOR SHALL USE EXTREME CARE TO AVOID HITTING THE PIPE. POLYETHYLENE WRAPPING, AND TRACER WIRE WHILE COMPACTION.
 - LIFT THREE - SHALL CONSIST OF PLACING AND COMPACTING MATERIAL TO 6" ABOVE THE PIPE.
 - UPPER TRENCH ZONE (CONTROLLED DENSITY FILL).
 - ASPHALT CONCRETE SHALL BE REPLACED IN KIND BUT NO LESS THAN 6" IN DEPTH.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO TOP OF PIPE EVERY 6".
 - A SECOND OPERATION IS REQUIRED PRIOR TO FINAL PAVING TO ACHIEVE THE "T" CUT SECTION. SAW CUTTING/GRINDING A WIDER TRENCH LINE DURING INITIAL TRENCH EXCAVATION TO ACHIEVE A "T" CUT SECTION IS NOT PERMITTED.

NOTES

- REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION. ON EXISTING STEEL PIPES, WELD THE NEW TRACER WIRE END TO THE STEEL PIPE IF TRACER WIRE IS NOT PRESENT.
- IF WATER IS ENCOUNTERED IN THE TRENCH OR THE DISTRICT INSPECTOR DETERMINES THE SUBGRADE BELOW THE PIPE EMBEDMENT ZONE IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE AN ADDITIONAL 12" AND INSTALL 3/4" CRUSHED DRAIN ROCK. DRAIN ROCK SECTION SHALL BE WRAPPED WITH FILTER FABRIC ON ALL SIDES.

**4 TRENCH SECTION - TYPE D
CONTROLLED DENSITY FILL**

NTS



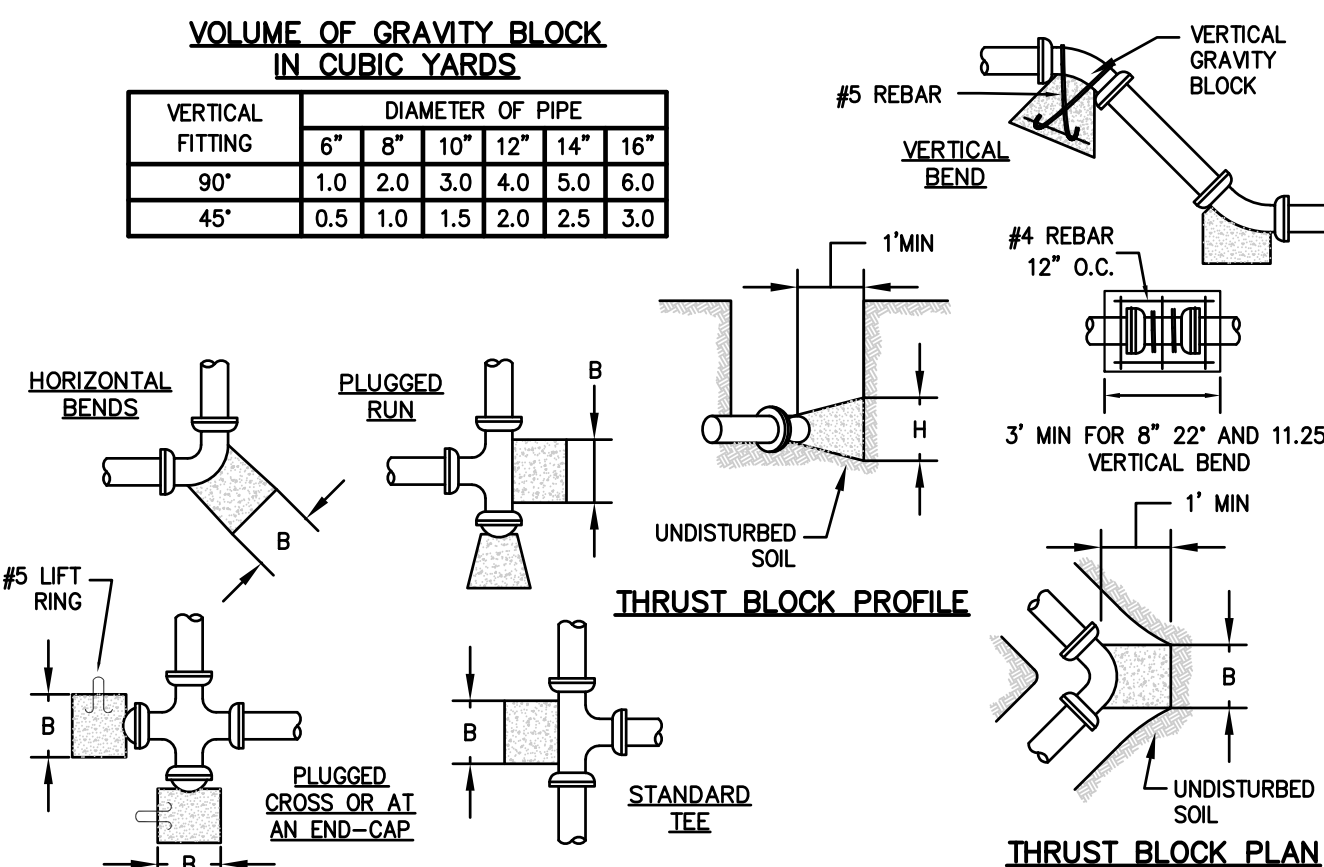
- NOTES**
- FOR GATE VALVES LOCATED BEHIND THE CURB, INSTALL A CURB MARKING TAG AS FURNISHED BY THE DISTRICT.
 - FOR GATE VALVES LOCATED ALONG THE CROSS COUNTRY, INSTALL A VALVE MARKER POST PER MP-06 (SEE DISTRICT STANDARD).
 - GATE VALVE EXTENSION IS REQUIRED ON ANY VALVE NOT INSTALLED MORE THAN 3" BELOW FINISH GRADE.

LEGEND

- GATE VALVE, MUELLER NO. A-2362 WITH TYPE 316 SS BOLTS AND NUTS, AND 2" SQUARE BRONZE OPERATION NUT. VALVE STEM SHALL BE BRONZE, EPDM RUBBER, MACHINED RELEASE GROOVE, BELOW OPERATING NUT; AND STUFFING BOX ALIGNED WITH THE DIRECTION OF THE PIPE. IF COATING ON GATE VALVE IS DAMAGED DURING THE INSTALLATION, IT SHOULD BE REPAIRED USING MUELLER APPROVED VALVE REPAIR EPOXY KIT. VALVE SHALL BE SET PLUMB.
- TRAFFIC VALVE BOX, CHRISTY CONCRETE NO. 605TB0X.
- CAST IRON TRAFFIC COVER INSCRIBED "WATER", CHRISTY CONCRETE NO. 605CT.
- SDR 35 PVC PIPE - 8" MIN DIA.
- 2,000 PSI HIGH EARLY STRENGTH CONCRETE. PLACE ASPHALT ON TOP OF CONCRETE COLLAR, SAME DAY.
- TRENCH BACKFILL PER DETAIL 1 THRU 4/ PLAN C1.2
- ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. WRAP EXCESS FILM WITH 10-MIL PIPE TAPE. USE NO. 8 AWG STANDARD TRACER WIRE TAPED ON TOP OF PIPE AND LOOPED INTO THE VALVE BOX FROM OUTSIDE THE RISER. WIRE TO EXTEND 12" ABOVE GRADE.

5 GATE VALVE ASSEMBLY

NTS



VOLUME OF GRAVITY BLOCK IN CUBIC YARDS

VERTICAL FITTING	DIAMETER OF PIPE					
	6"	8"	10"	12"	14"	16"
90°	1.0	2.0	3.0	4.0	5.0	6.0
45°	0.5	1.0	1.5	2.0	2.5	3.0

DIMENSIONS OF THRUST BLOCKS IN FEET

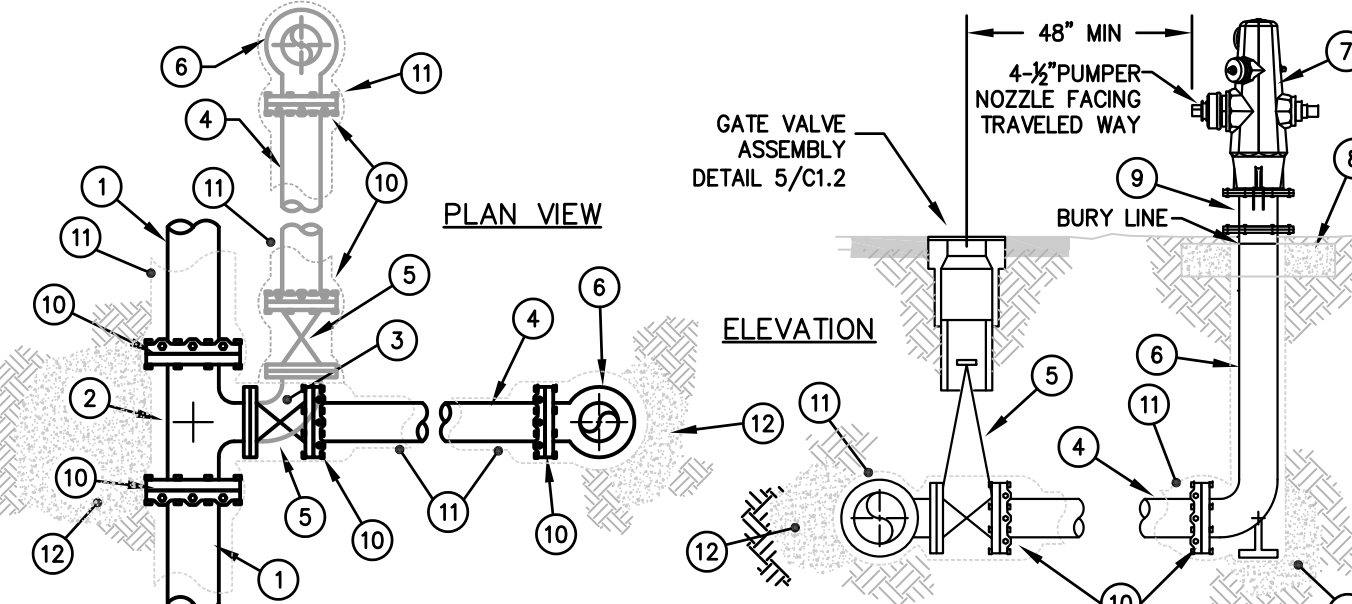
HORIZONTAL FITTING	DIAMETER OF PIPE											
	6"		8"		10"		12"		14"		16"	
	B	H	B	H	B	H	B	H	B	H	B	H
90°	1'-9"	1'-9"	2'-3"	2'-3"	2'-9"	2'-9"	3'-3"	3'-3"	3'-9"	3'-9"	4'-3"	4'-3"
45°	1'-0"	1'-0"	1'-6"	1'-6"	2'-0"	2'-0"	2'-6"	2'-6"	3'-0"	3'-0"	3'-6"	3'-6"
PLUG/TEE	1'-3"	1'-3"	1'-9"	1'-9"	2'-3"	2'-3"	2'-9"	2'-9"	3'-3"	3'-3"	3'-9"	3'-9"

NOTES

- THRUST BLOCK DIMENSIONS SHALL BE DOUBLED IF USED ON NON-RESTRAINED CONNECTIONS.
- USE 2,000 PSI HIGH EARLY STRENGTH CONCRETE.
- ALL THRUST BLOCKS AND GRAVITY BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
- ENCASE DIP IN V-BIO ENHANCED POLYETHYLENE ENCASUREMENT.
- MAINTAIN A MIN CLEARANCE OF 2" BETWEEN THE THRUST BLOCK REINFORCING STEEL AND PIPE.
- CONCRETE NOT TO EXTEND BEYOND THE FACE OF THE BELL.
- THRUST BLOCK SHALL ENCOMPASS AT LEAST ONE-HALF OF THE OUTSIDE DIAMETER OF THE PIPE.
- FLANGES, BOLTS, AND NUTS SHALL BE KEPT CLEAR OF CONCRETE.
- DIMENSIONS ABOVE INCLUDE USE OF MECHANICAL RESTRAINTS ON PIPE.
- IF GROUNDWATER IS PRESENT, THRUST BLOCK DIMENSIONS SHALL BE DETERMINED BY THE DISTRICT.

6 THRUST BLOCK DETAILS

NTS



LEGEND

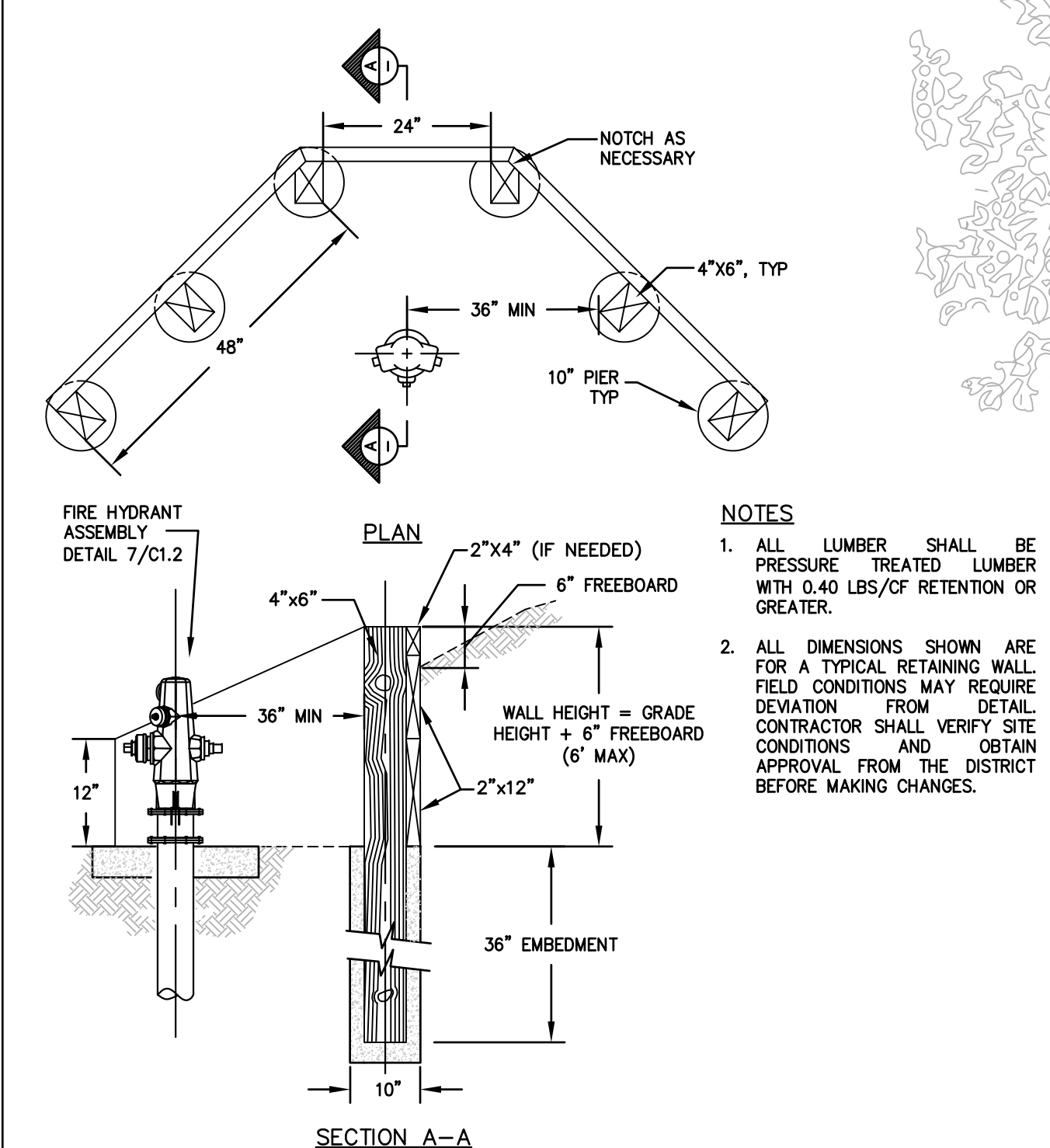
- WATER MAIN, DIP OR PVC
- TEE (TYPE DETERMINED BY DISTRICT) OR TAPPING SLEEVE, JMC 6432, ALL TYPE 316 SS BODIES, OR AS DIRECTED BY THE DISTRICT
- 6" 90° BEND, FLXFL.
- 6" DIP OR PVC PIPE.
- 6" GATE VALVE, MUELLER A-2362, FLXMJ (RESTRAINED)
- 6" BURY, FLXMJ (RESTRAINED)
- HYDRANT, CLOW 860 (WET BARREL) WITH ONE 4-1/2" PUMPER AND TWO 2-1/2" OUTLETS, ALL NS THREADS.
- 24"DIA, 12" THICK, 2,000 PSI CONCRETE COLLAR.
- BREAK-OFF CHECK VALVE, MUELLER J6000. INSTALL CONCRETE COLLAR TO ALLOW REMOVAL OF STAINLESS STEEL BOLTS SECURING BREAK-OFF RISER. NATIVE SOIL SHALL THEN BE PLACED ON TOP OF THE COLLAR TO WITHIN 1" OF THE BOTTOM OF THE BREAK-OFF RISER.
- 6" MJ RESTRAINT, EBAA IRON, "MEGALUG" SERIES 1100 FOR DIP AND SERIES 2000 FOR PVC.
- ENCASE DIP FIRE HYDRANT LATERAL WITH V-BIO ENHANCED POLYETHYLENE ENCASUREMENT. WRAP EXCESS FILM WITH 10 MIL PIPE TAPE. TAPE A BLUE NO. 8 AWG COPPER TRACER WIRE TO THE TOP OF LATERAL.
- THRUST BLOCK PER DETAIL 6, PLAN C1.2

NOTES

- FOR NEW DEVELOPMENTS, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL FIRE DEPARTMENT FOR HYDRANT LOCATIONS.
- ALL JOINTS USED IN THE HYDRANT ASSEMBLY SHALL BE RESTRAINED AND SHALL BE MECHANICAL JOINT "MEGALUG," OR FIELD LOCKS.
- BREAK-OFF RISER SHALL BE 1" ABOVE FINISH GRADE.
- ALL BOLTS AND NUTS SHALL BE TYPE 316 STAINLESS STEEL EXCLUDING PRE-MANUFACTURED BREAK-OFF CHECK VALVE.
- INSTALL A BLUE, TWO-WAY, REFLECTIVE PAVEMENT MARKER AT EACH HYDRANT LOCATION IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 85 OF THE CALTRANS STANDARD SPECIFICATIONS.
- PAINT BOTH THE TOP SURFACE OF THE FIRE HYDRANT GATE VALVE BOX AND COVER WHITE WITH DIRECT TO METAL PAINT.
- NEW FIRE HYDRANT ASSEMBLY SHALL BE PRESSURE TESTED AND DISINFECTED.
- NEW FIRE HYDRANT AND BREAK OFF CHECK VALVE SHALL BE FACTORY PAINTED "WHITE." ALL METAL ABOVE THE CONCRETE COLLAR SHALL ALSO BE PAINTED "WHITE."

7 FIRE HYDRANT ASSEMBLY

NTS



LEGEND

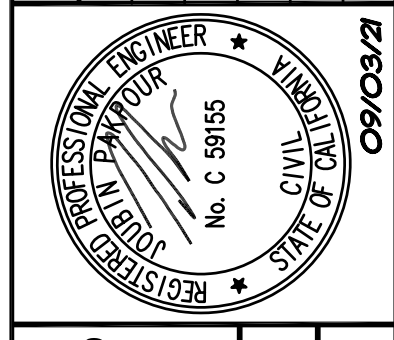
- ALL LUMBER SHALL BE PRESSURE TREATED LUMBER WITH 0.40 LBS/CF RETENTION OR GREATER.
- ALL DIMENSIONS SHOWN ARE FOR A TYPICAL RETAINING WALL. FIELD CONDITIONS MAY REQUIRE DEVIATION FROM DETAIL. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND OBTAIN APPROVAL FROM THE DISTRICT BEFORE MAKING CHANGES.

8 FIRE HYDRANT RETAINING WALL

NTS

REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'VD

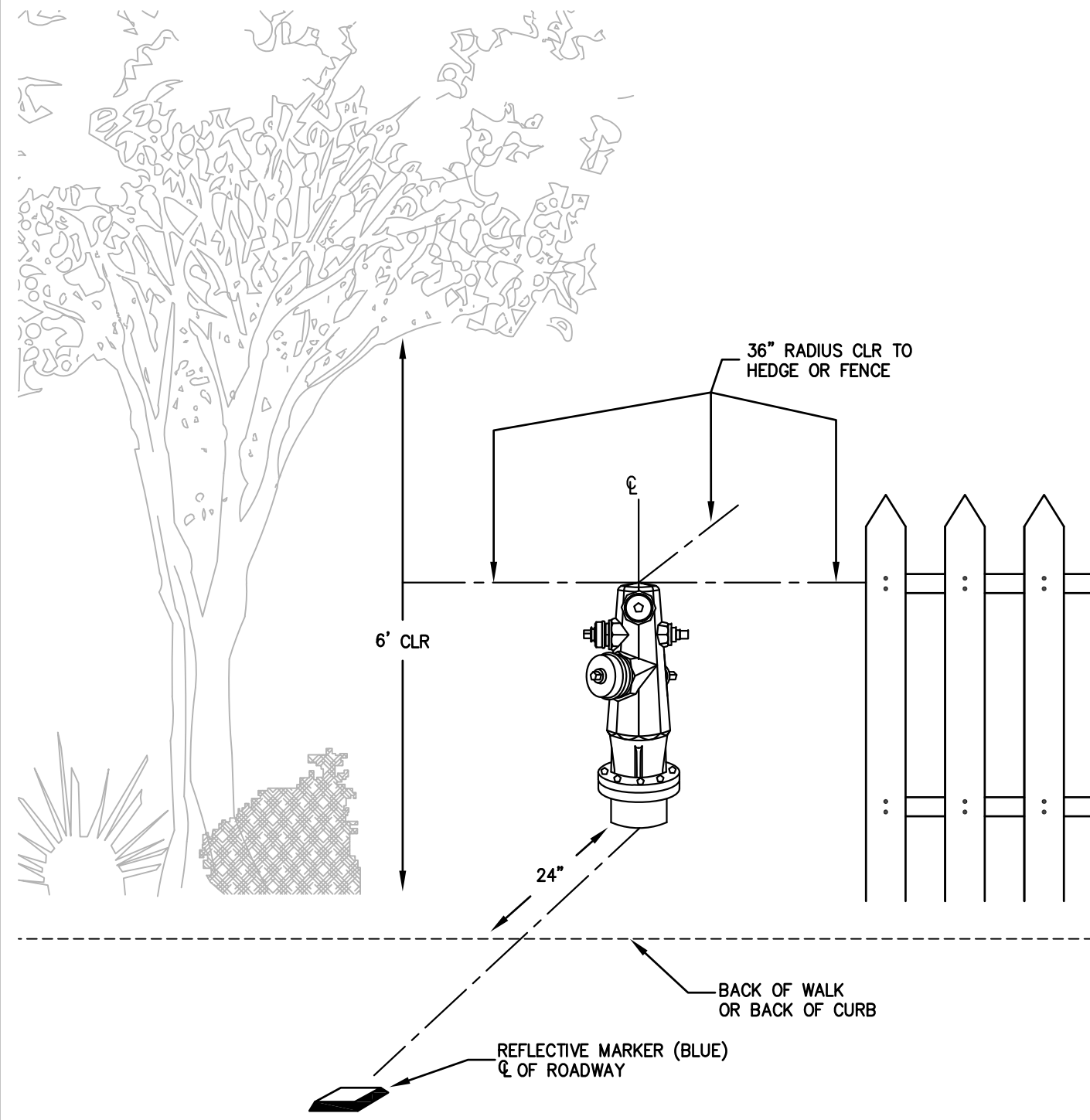


Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7171 Fax 925.224.7726
www.pcgengr.com

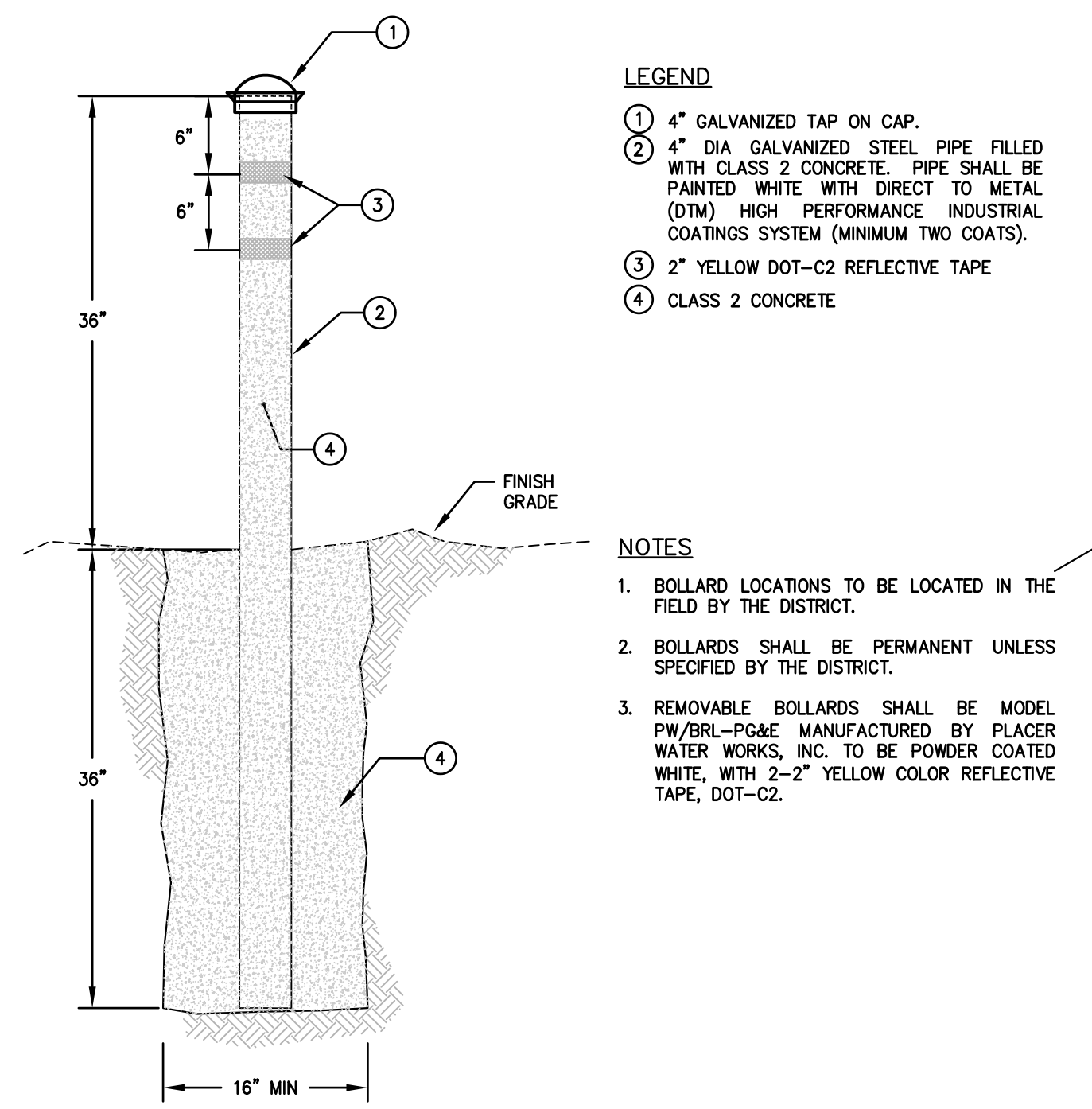
CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

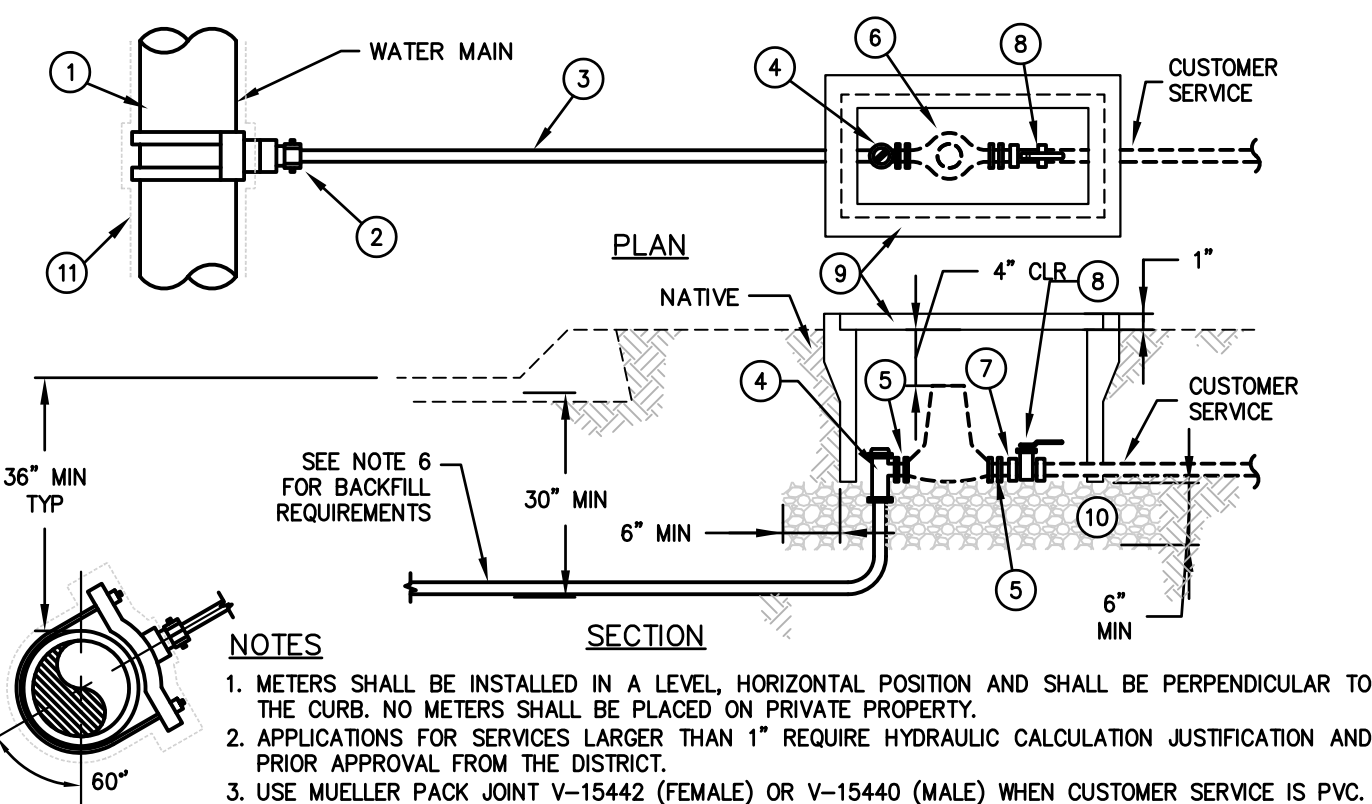
**MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
CONSTRUCTION DETAILS**



1 HYDRANT CLEARANCES
NTS

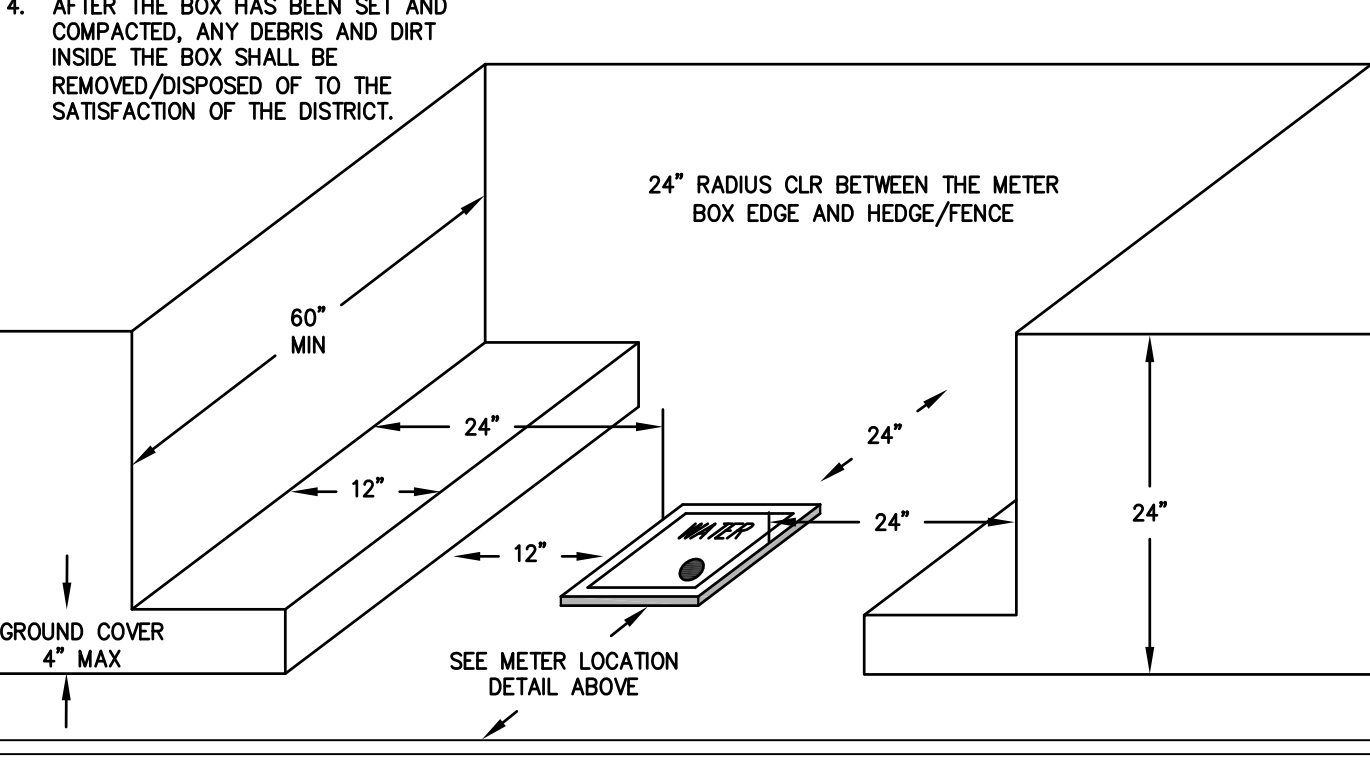
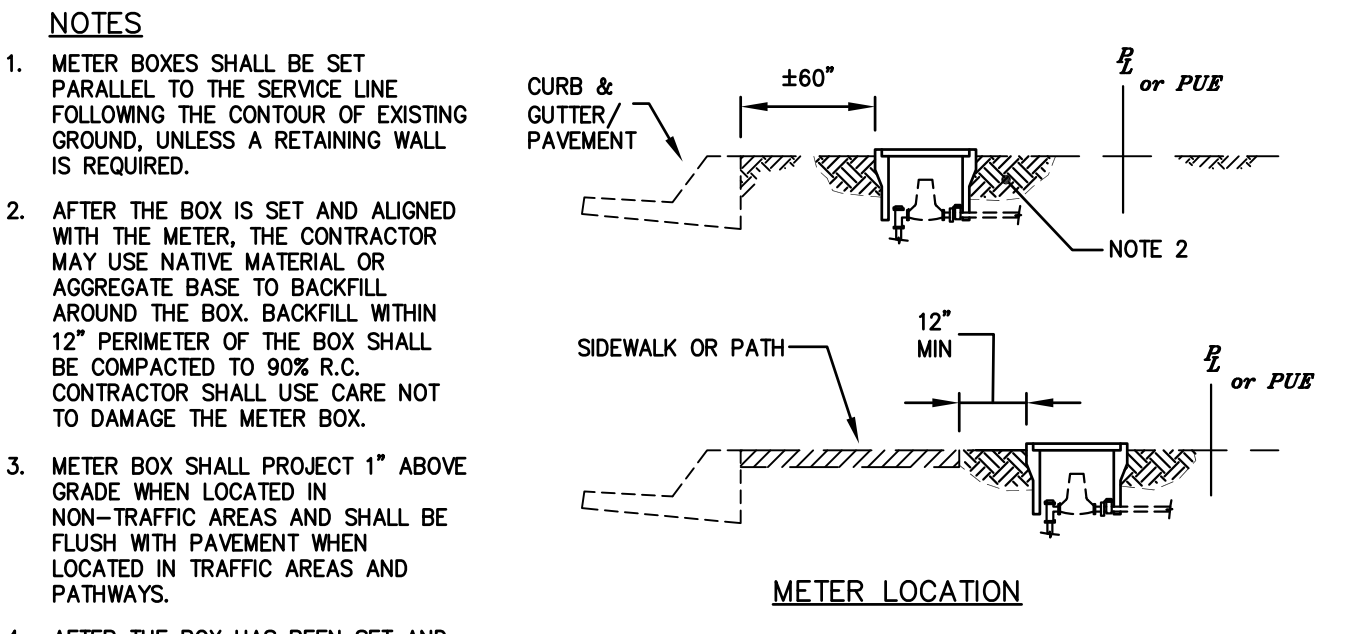


2 BOLLARD
NTS

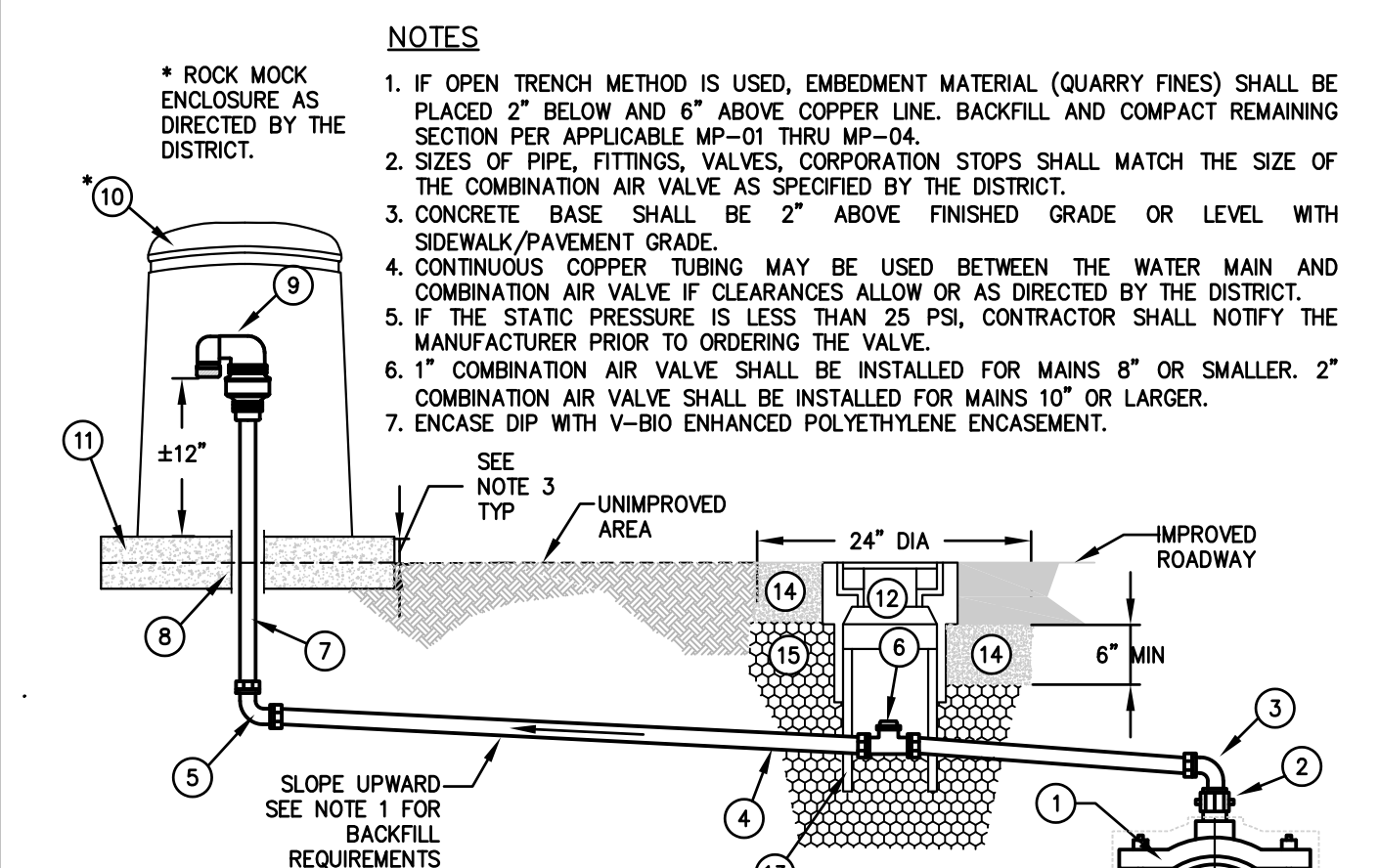


- NOTES**
- METERS SHALL BE INSTALLED IN A LEVEL, HORIZONTAL POSITION AND SHALL BE PERPENDICULAR TO THE CURB. NO METERS SHALL BE PLACED ON PRIVATE PROPERTY.
 - APPLICATIONS FOR SERVICES LARGER THAN 1" REQUIRE HYDRAULIC CALCULATION JUSTIFICATION AND PRIOR APPROVAL FROM THE DISTRICT.
 - USE MUELLER PACK JOINT V-15442 (FEMALE) OR V-15440 (MALE) WHEN CUSTOMER SERVICE IS PVC.
 - HOT-TAPS AND NEW CONNECTIONS SHALL BE 4" MIN FROM A BELL/JUNCTION OR AS DIRECTED BY THE DISTRICT.
 - SERVICE SADDLE SHALL BE 18" MIN FROM AN ADJACENT SERVICE CONNECTION.
 - IF OPEN TRENCH METHOD IS USED, EMBEDMENT MATERIAL (QUARRY FINES) SHALL BE PLACED 2" BELOW AND 6" ABOVE THE SERVICE LINE. BACKFILL AND COMPACT REMAINING SECTION PER APPLICABLE MP-01 THRU MP-04.
 - ANY FIRE SPRINKLER INSTALLATION WILL REQUIRE AN UPDATED SERVICE CONNECTION.
- LEGEND**
- DOUBLE STRAP BRONZE SERVICE SADDLE, MUELLER BR28 "CC" FOR DIP AND MUELLER BR25 "CC" FOR PVC.
 - 1" INSULATED CORPORATION STOP, MUELLER N-3500BN.
 - 1" TYPE K SOFT COPPER PIPE. COPPER PIPE SHALL HAVE BLUE SEAMLESS POLYETHYLENE COAT DISTRIBUTED BY MUELLER STREAMLINE CO. UNIONS OR COUPLINGS NOT PERMITTED.
 - 1" COMPRESSION BALL ANGLE METER VALVE, MUELLER B-24258N.
 - FORD A-XX-NL METER ADAPTERS, (BRASS), SHALL BE INSTALLED ON THE INLET AND OUTLET SIDES OF THE METER TO UPSIZE/DOWNSIZE THE METER SIZE AND LENGTH AS REQUIRED.
 - 5/8" OR 1" METER (FURNISHED BY DISTRICT).
 - INSULATED METER COUPLING, MUELLER H-1087IN.
 - BALL VALVE, RED WHITE VALVE 5044AB.
 - METER BOX, CHRISTY NO. B16 WITH NO. B16P REINFORCED CONCRETE COVER, H/20, TRAFFIC RATED BOX AND COVER, ARMORCAST 20K, NO. A6000492 AND A6000489TH, SHALL BE PROVIDED IN TRAFFIC AREAS AND WHERE DIRECTED BY THE DISTRICT. COVERS SHALL HAVE A RECESSED PROBE HOLE MADE FOR SENSUS FLEXNET RADIO READERS.
 - 3/4" DRAIN ROCK SHALL BE MECHANICALLY COMPACTED.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

3 5/8" AND 1" SERVICE CONNECTION
NTS

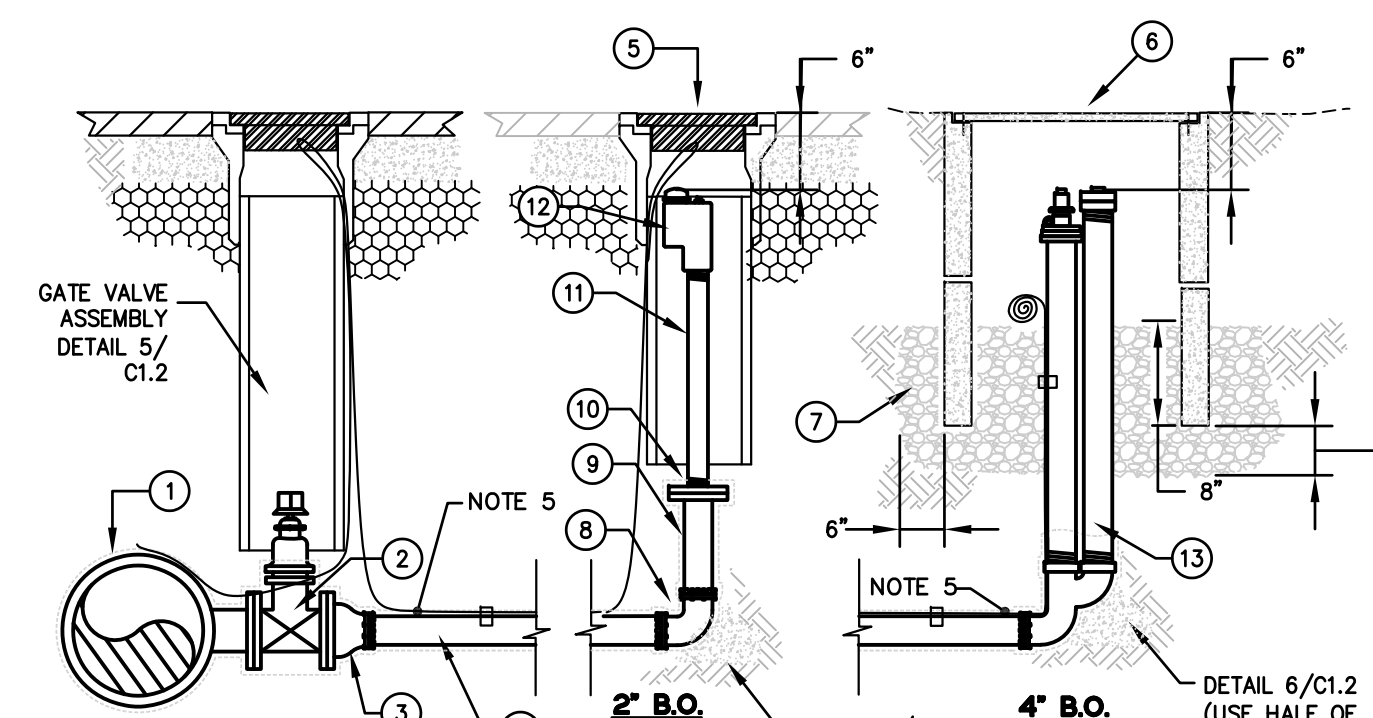


4 SERVICE METER CLEARANCES
NTS



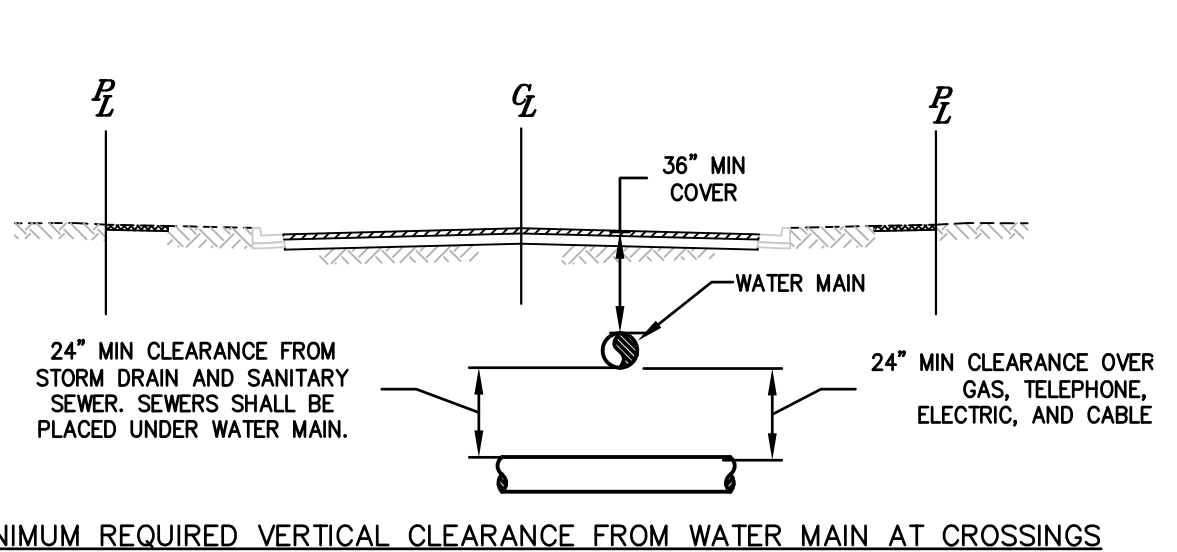
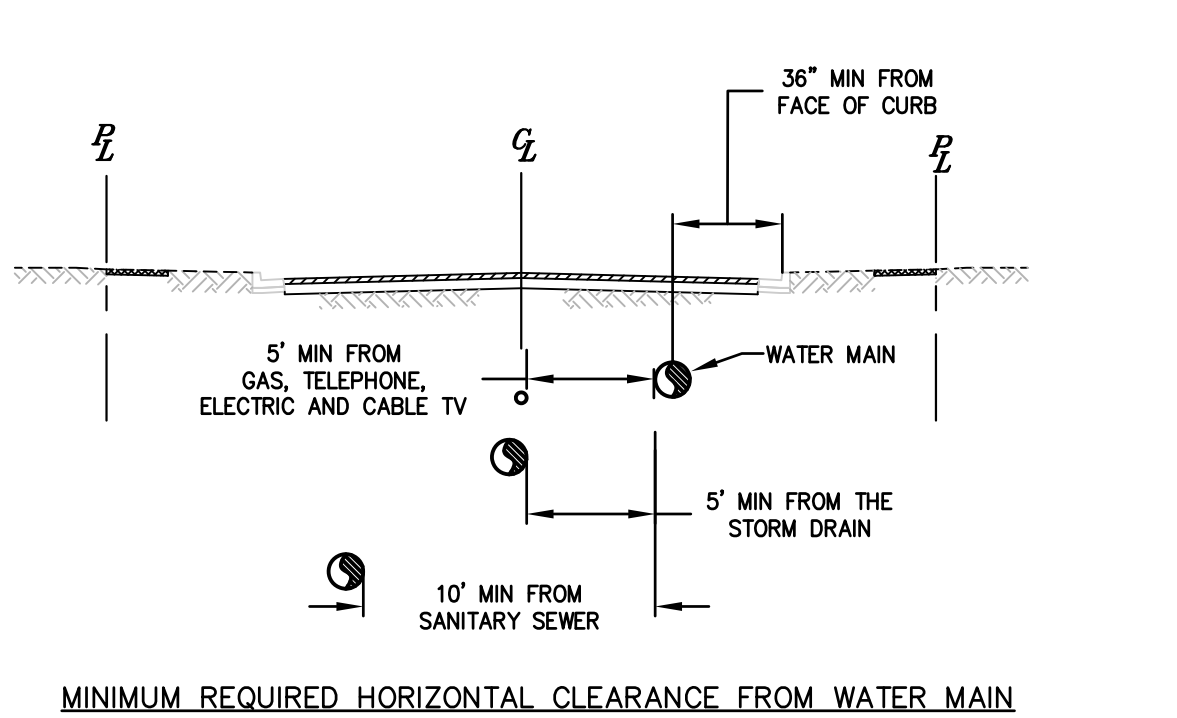
- NOTES**
- IF OPEN TRENCH METHOD IS USED, EMBEDMENT MATERIAL (QUARRY FINES) SHALL BE PLACED 2" BELOW AND 6" ABOVE COPPER LINE. BACKFILL AND COMPACT REMAINING SECTION PER APPLICABLE MP-01 THRU MP-04.
 - SIZES OF PIPE, FITTINGS, VALVES, CORPORATION STOPS SHALL MATCH THE SIZE OF THE COMBINATION AIR VALVE AS SPECIFIED BY THE DISTRICT.
 - CONCRETE BASE SHALL BE 2" ABOVE FINISHED GRADE OR LEVEL WITH SIDEWALK/PAVEMENT GRADE.
 - CONTINUOUS COPPER TUBING MAY BE USED BETWEEN THE WATER MAIN AND COMBINATION AIR VALVE IF CLEARANCES ALLOW OR AS DIRECTED BY THE DISTRICT.
 - IF THE STATIC PRESSURE IS LESS THAN 25 PSI, CONTRACTOR SHALL NOTIFY THE MANUFACTURER PRIOR TO ORDERING THE VALVE.
 - 1" COMBINATION AIR VALVE SHALL BE INSTALLED FOR MAINS 8" OR SMALLER. 2" COMBINATION AIR VALVE SHALL BE INSTALLED FOR MAINS 10" OR LARGER.
 - ENCASE DIP WITH V-BIO ENHANCED POLYETHYLENE ENCASEMENT.
- LEGEND**
- DOUBLE STRAP BRONZE SERVICE SADDLE MUELLER BR28 "CC" FOR DIP/CIP AND MUELLER BR25 "CC" FOR PVC.
 - INSULATED CORPORATION STOP, MUELLER N-3004SN (CCXFP).
 - 90° MIP X COMP MULLER FITTING.
 - TYPE K COPPER TUBING. COPPER PIPE SHALL HAVE BLUE SEAMLESS POLYETHYLENE COAT DISTRIBUTED BY MUELLER STREAMLINE CO. MAINTAIN UPWARD SLOPE. UNIONS OR COUPLINGS NOT PERMITTED.
 - 90° COMP X COMP MUELLER FITTING.
 - F.I.P. X F.I.P. BALL STRAIGHT METER VALVE, MUELLER B-20200N.
 - BRASS PIPE (LOW LEAD).
 - SDR 35 PVC - 3" DIA.
 - COMBINATION AIR VALVE, A.R.I. D-040, WITH STAINLESS STEEL SCREEN, FUNCTIONS AS BOTH AIR RELEASE AND AIR/VACUUM VALVES.
 - ENCLOSURE PIPELINE PRODUCTS, VCAS-1424. COLOR SHALL BE GREEN AND INSTALLED LEVEL. (PADLOCK FURNISHED BY DISTRICT)
 - CONCRETE BASE 4" X 24" DIA W/STEEL WIRE MESH IN MIDDLE. BASE SHALL BE INSTALLED LEVEL.
 - TRAFFIC VALVE BOX, CHRISTY CONCRETE NO. 605T WITH CAST IRON TRAFFIC COVER INSCRIBED "WATER", CHRISTY CONCRETE NO 605CT.
 - SDR 35 PVC RISER - 8" MIN DIA.
 - 2,000 PSI CONCRETE COLLAR. 24 HOURS MIN CURE PRIOR TO PLACEMENT OF ASPHALT.
 - BACKFILL MATERIAL PER APPLICABLE DETAIL 01 THRU 04/C1.2

5 1" OR 2" COMBINATION AIR VALVE
NTS



- NOTES**
- 2" BLOW-OFF SHALL BE INSTALLED FOR MAINS 6" OR SMALLER.
 - 4" BLOW-OFF SHALL BE INSTALLED FOR MAINS 8" OR LARGER.
 - THE TOP OF THE BOX SHALL BE FLUSH WITH PAVEMENT WHEN LOCATED IN TRAFFIC AREAS.
 - ALL BURIED NUTS AND BOLTS SHALL BE TYPE 316 STAINLESS STEEL.
 - ENCASE BRANCH TEE, BENDS, NIPPLES, AND DIP IN V-BIO ENHANCED POLYETHYLENE ENCASEMENT. TAPE A BLUE NO. 8 AWG, COPPER TRACER WIRE TO THE TOP OF PIPE EVERY 6'.
- LEGEND**
- 4" BRANCH TEE (TYPE DETERMINED BY DISTRICT) OR TAPPING SLEEVE JMC 6432, FOR 4" MAINS, OR 6" BRANCH TEE (TYPE DETERMINED BY DISTRICT) OR TAPPING SLEEVE JMC 6432, FOR 6" AND BIGGER MAINS. FOR DEAD END MAINS, CONNECT VALVE DIRECTLY.
 - 4" OR 6" GATE VALVE, FLXFL, MUELLER NO. 2362.
 - 6"x4" REDUCER, FLXMJ (RESTRAINED) FOR 6" MAINS AND BIGGER.
 - 4" DIP/PVC.
 - TRAFFIC VALVE BOX WITH CAST IRON COVER INSCRIBED "WATER", INSTALL PER MP-05.
 - TRAFFIC VALVE, CHRISTY NO. B132480X (H/20 LOADING) WITH B1324-61JH STEEL CHECKER PLATE COVER AND B1324X12 EXTENSION.
 - 3/4" DRAIN ROCK, UP TO VALVE ONLY, SHALL BE MECHANICALLY COMPACTED.
 - 2" BLOW-OFF
 - 4" DIP 90° BEND, MXXMJ (RESTRAINED).
 - 4" DIP FLXPE OR PVC WITH RESTRAINED FLANGED ADAPTER.
 - 4" COMPANION FLANGE WITH A 2" THREADED IP OUTLET.
 - 2" BRASS NIPPLE, 8" MIN.
 - 2" BLOWOFF/FLUSHING HYDRANT, TRUFLO MODEL TF550 MANUFACTURED BY KUPFERLE FOUNDRY CO. (BRASS LOW LEAD)
 - 4" BLOW-OFF
 - 4" BLOWOFF/FLUSHING HYDRANT, MANQUARD MODEL 7600 MANUFACTURED BY KUPFERLE FOUNDRY CO.

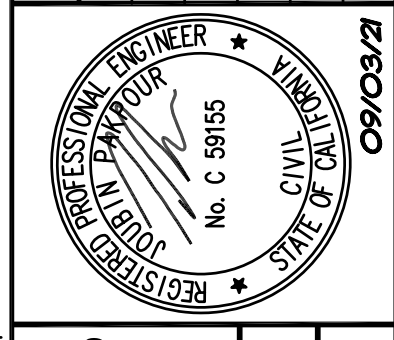
6 BLOW-OFF ASSEMBLY
NTS



- NOTES**
- ANY DEVIATION FROM THESE REQUIREMENTS REQUIRES WRITTEN APPROVAL FROM THE DISTRICT.
 - ALL CROSSINGS SHALL BE AT 45° TO 90°.
 - NO CONNECTION JOINTS SHALL BE MADE IN THE WATER MAIN WITHIN EIGHT HORIZONTAL FEET OF THE STORM DRAIN AND SANITARY SEWER PIPELINE.
 - 12" CLEARANCE BETWEEN THE OUTER SURFACE OF NEAR STRUCTURES SUCH AS CATCH BASINS, DRAIN INLETS, AND THE EDGE OF THE TRENCH IS REQUIRED.

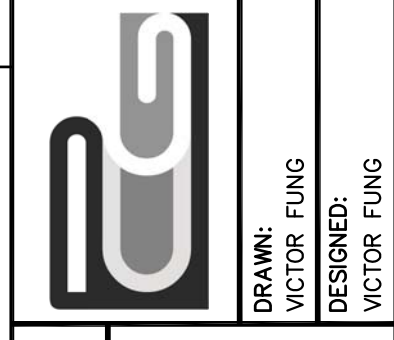
7 MINIMUM PIPE SEPARATION REQUIREMENTS
NTS

NO.	DESCRIPTION	BY	DATE	APPROVED



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7171 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
JOB NO. PAKFOUR



MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS

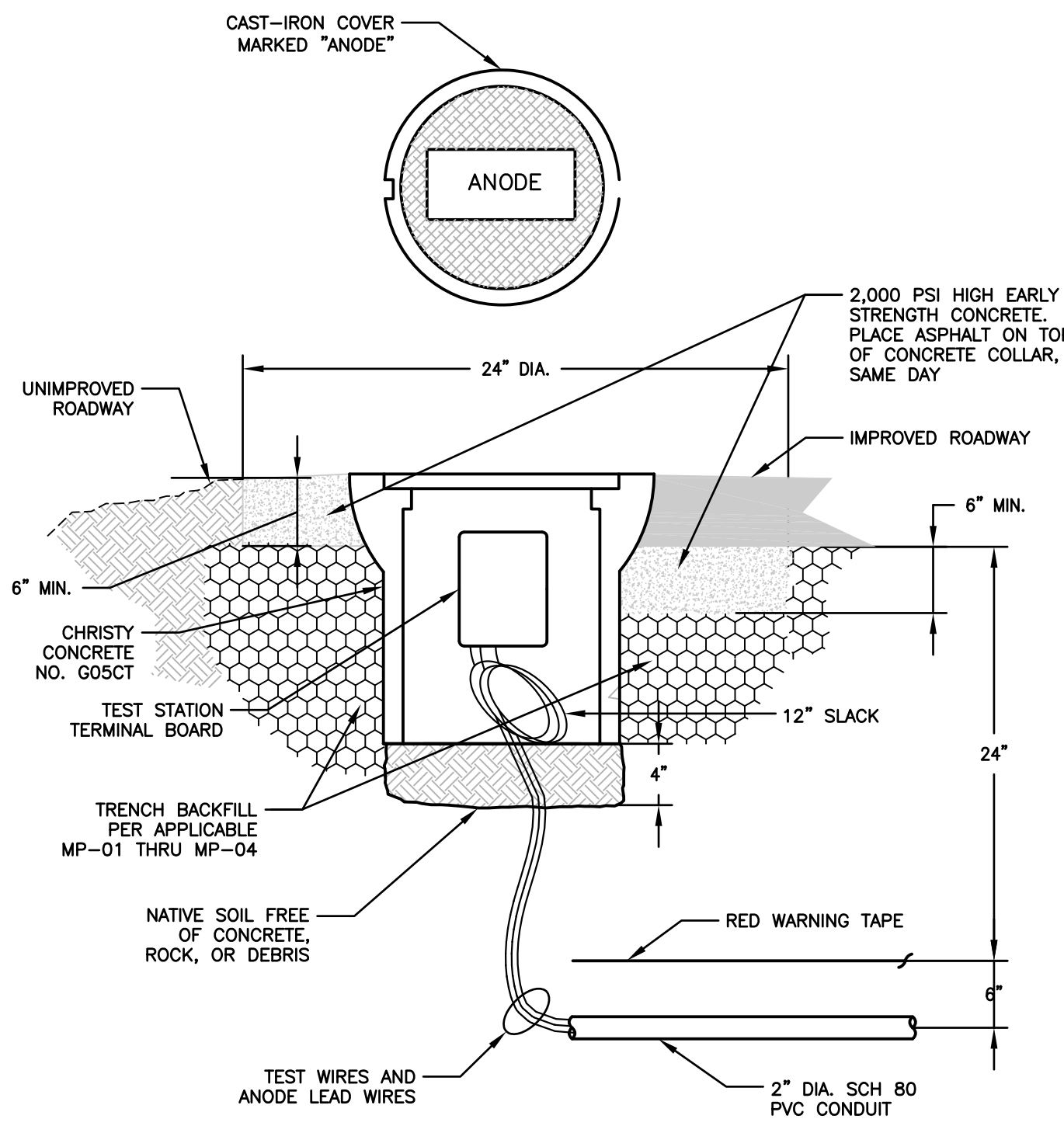
CONSTRUCTION DETAILS

DATE: 09/03/21
SCALE: AS NOTED
PCG JOB NO.: 10012.26

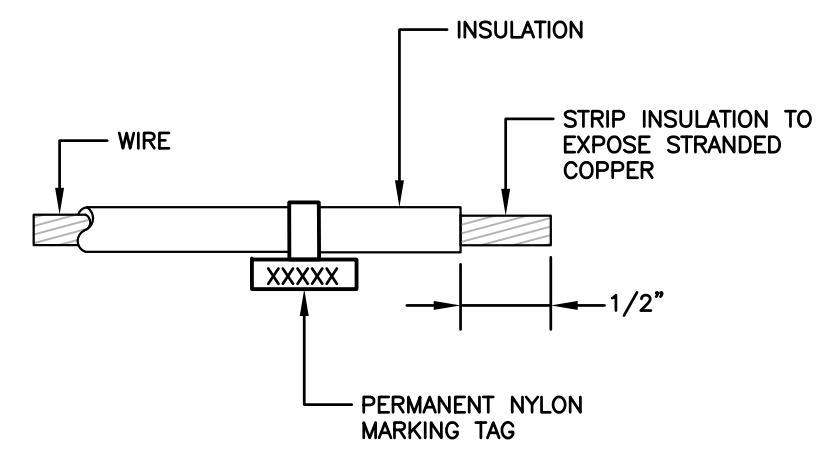
PLAN: **C13**
SHEET: **5** OF **19**

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CAD\01012_26\Plan Sheets\Final\Submittal\03_HYDRO03.dwg
PLOT DATE: 09/09/21, PLOTTED BY: VFUNG

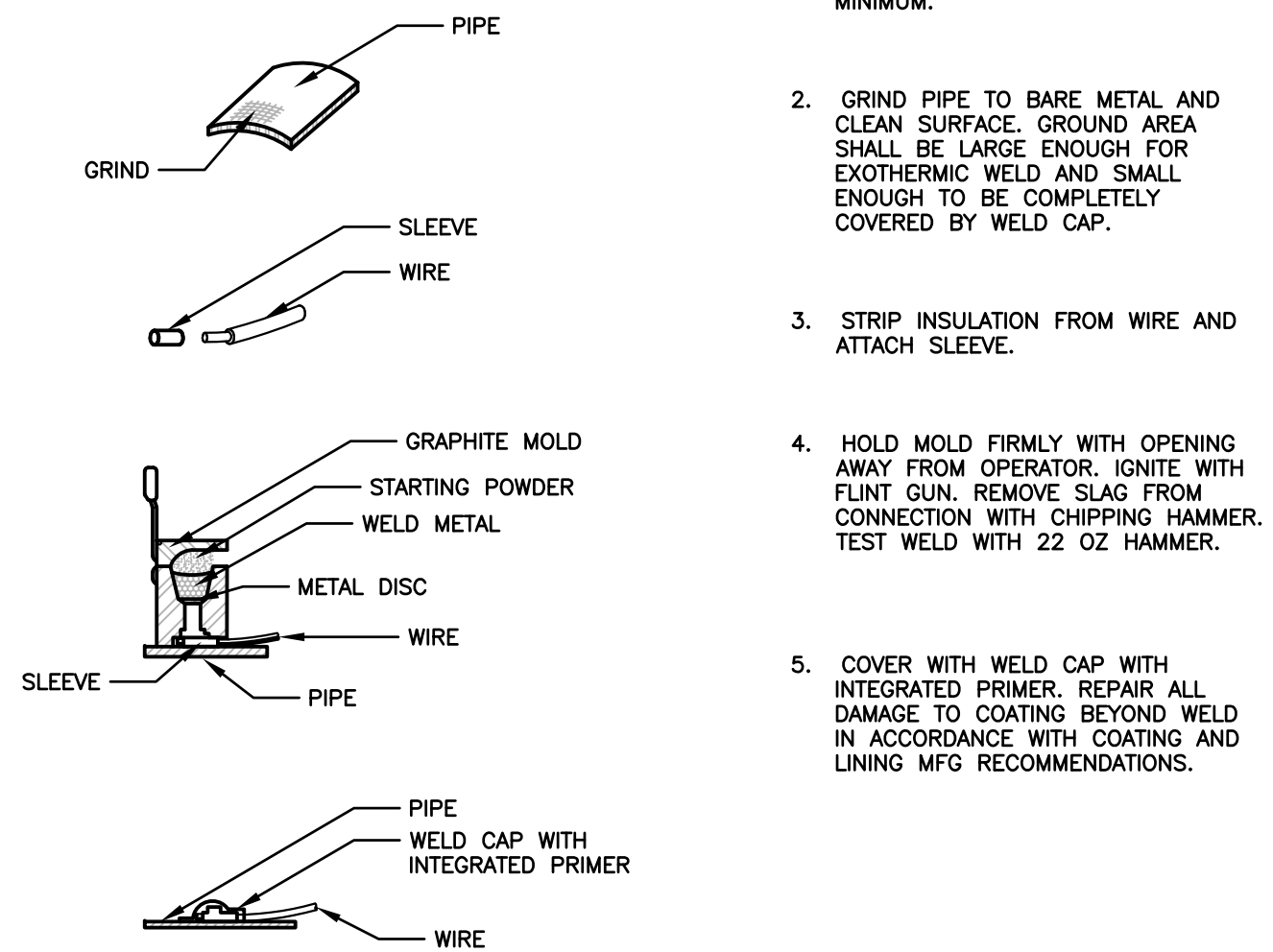


1 FLUSH-MOUNTED TEST STATION BOX
NTS



WIRE IDENTIFIER SCHEDULE	
ANODE	ANODE
PROTECTED DIP	DIP (PR)
UNPROTECTED DIP/CIP	DIP/CIP (UPR)
CROSS	CROSS
TEE	TEE
90° ELBOW	90° EL
45° ELBOW	45° EL
GATE VALVE	GV
BLOW OFF	BO
FIRE HYDRANT	FH

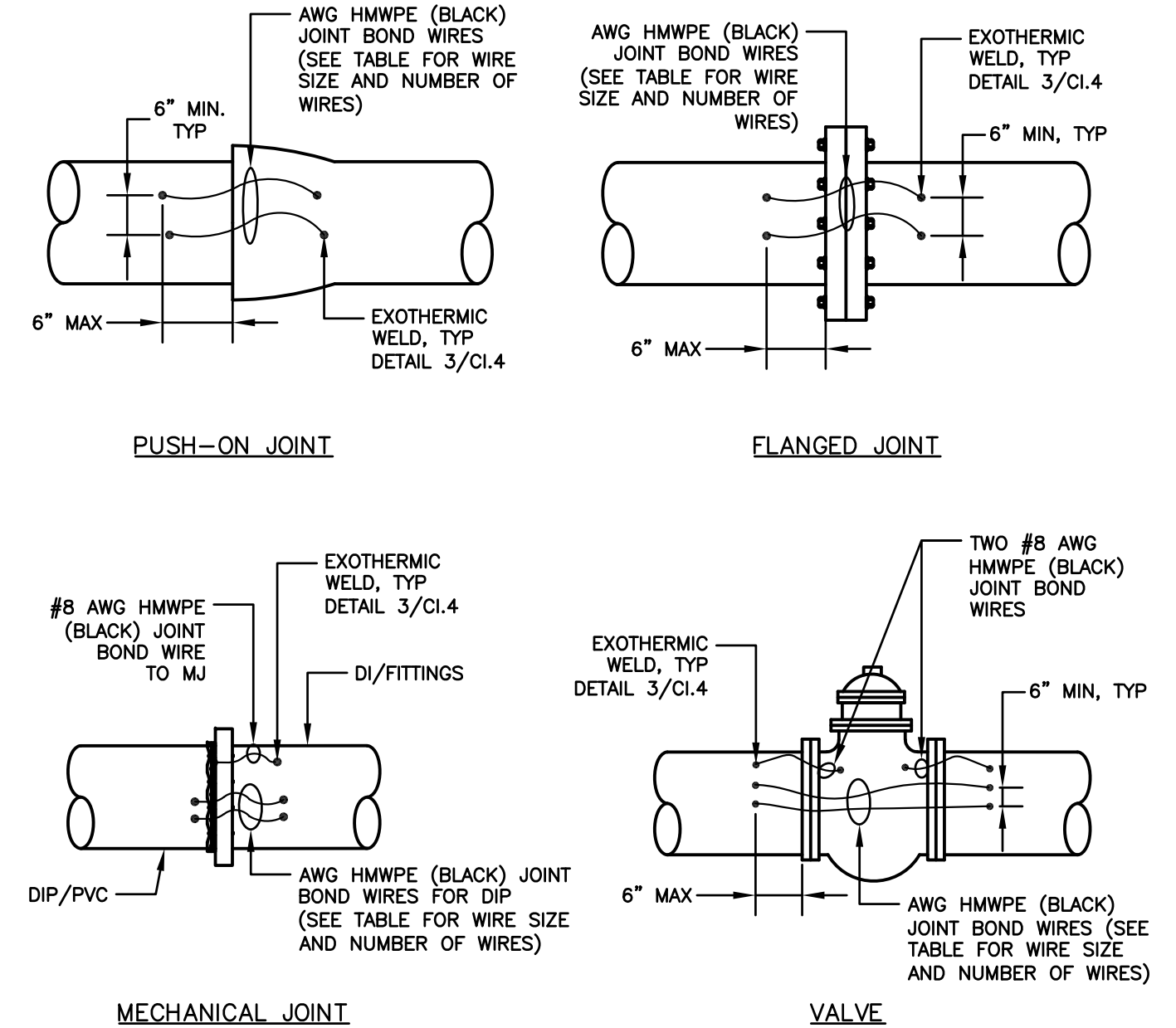
2 WIRE IDENTIFIER
NTS



- ALL WELDS SHALL BE 6" APART AT MINIMUM.
- GRIND PIPE TO BARE METAL AND CLEAN SURFACE. GROUND AREA SHALL BE LARGE ENOUGH FOR EXOTHERMIC WELD AND SMALL ENOUGH TO BE COMPLETELY COVERED BY WELD CAP.
- STRIP INSULATION FROM WIRE AND ATTACH SLEEVE.
- HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR. IGNITE WITH FLINT GUN. REMOVE SLAG FROM CONNECTION WITH CHIPPING HAMMER. TEST WELD WITH 22 OZ HAMMER.
- COVER WITH WELD CAP WITH INTEGRATED PRIMER. REPAIR ALL DAMAGE TO COATING BEYOND WELD IN ACCORDANCE WITH COATING AND LINING MFG RECOMMENDATIONS.

NOTES
PIN BRAZING SHALL BE ALLOWED UPON DISTRICT APPROVAL.

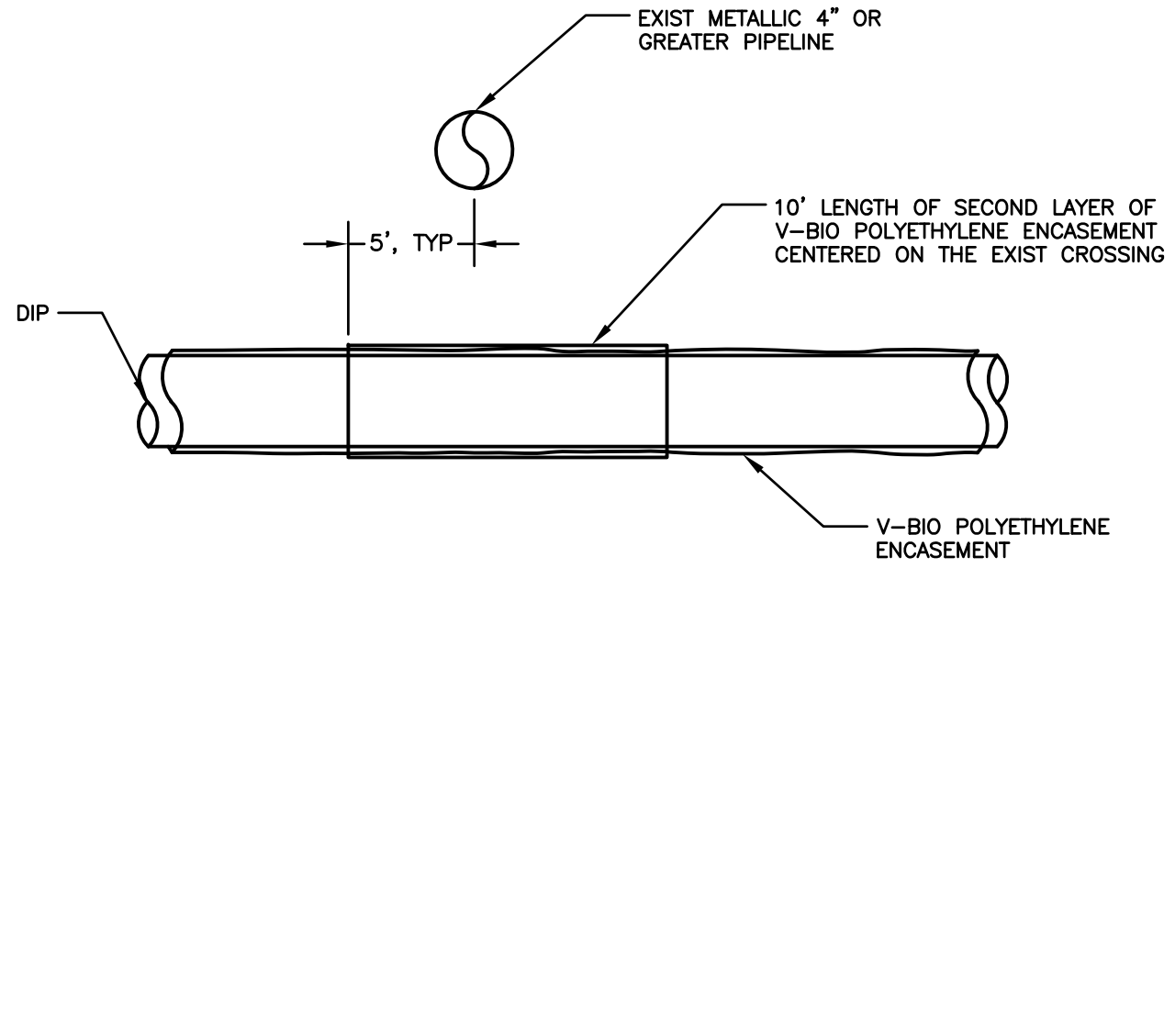
3 EXOTHERMIC WELD
NTS



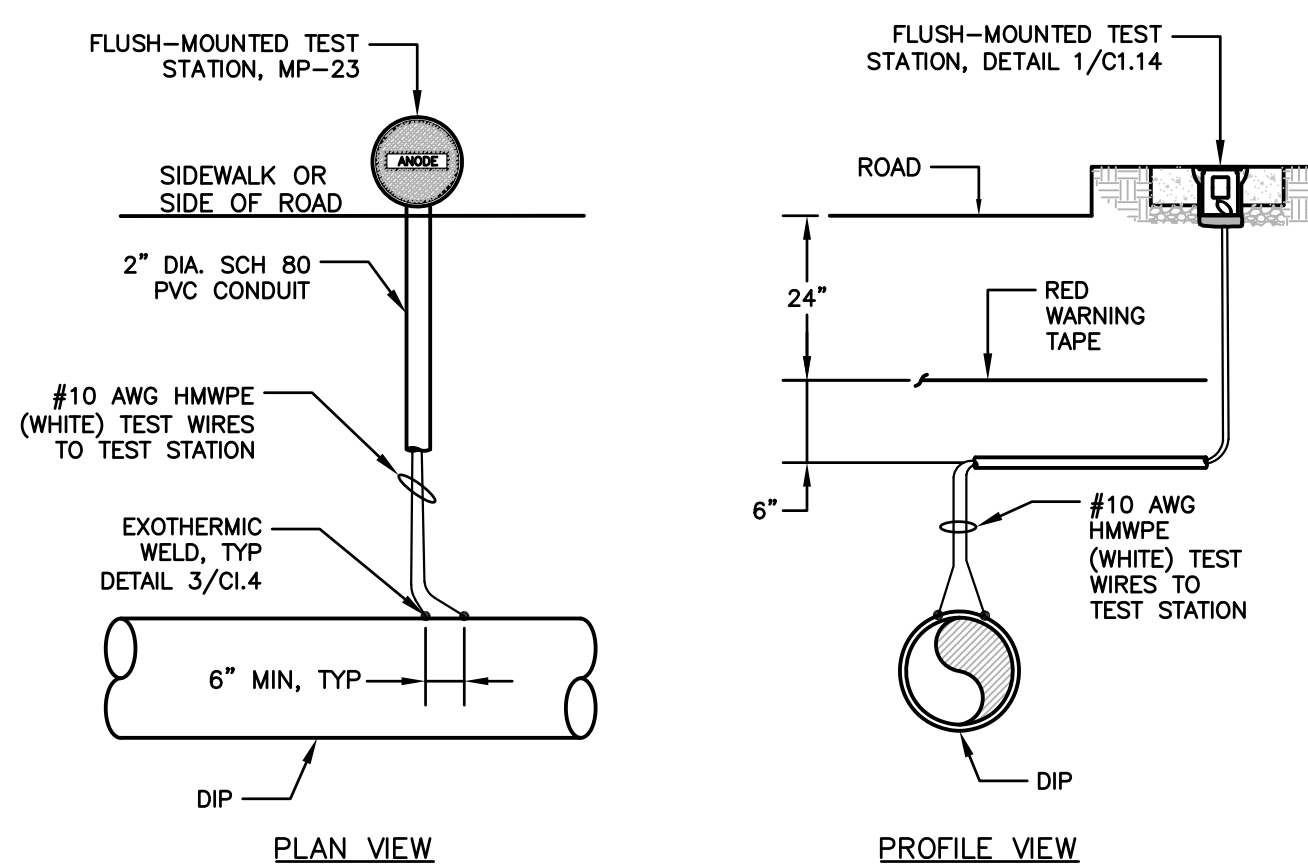
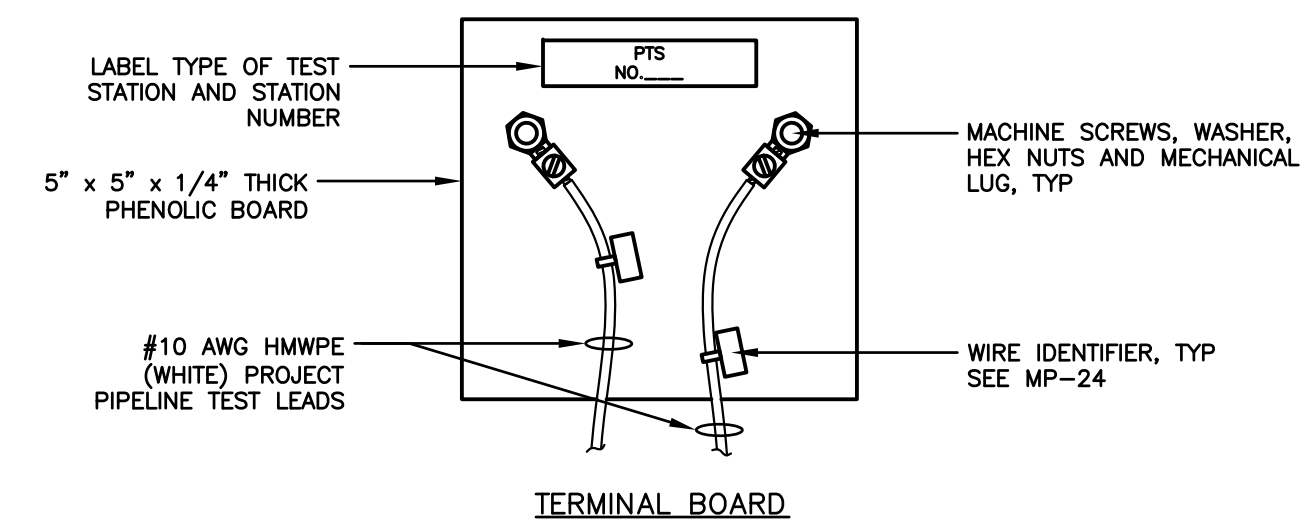
PIPE DIAMETER	6"	8"	10"	12"	18"	24"
WIRE SIZE*	#4	#4	#4	#2	#2	#2
NUMBER OF WIRES	2	2	2	2	3	4

*WIRE SIZES ARE SHOWN FOR CLASS 50 DIP

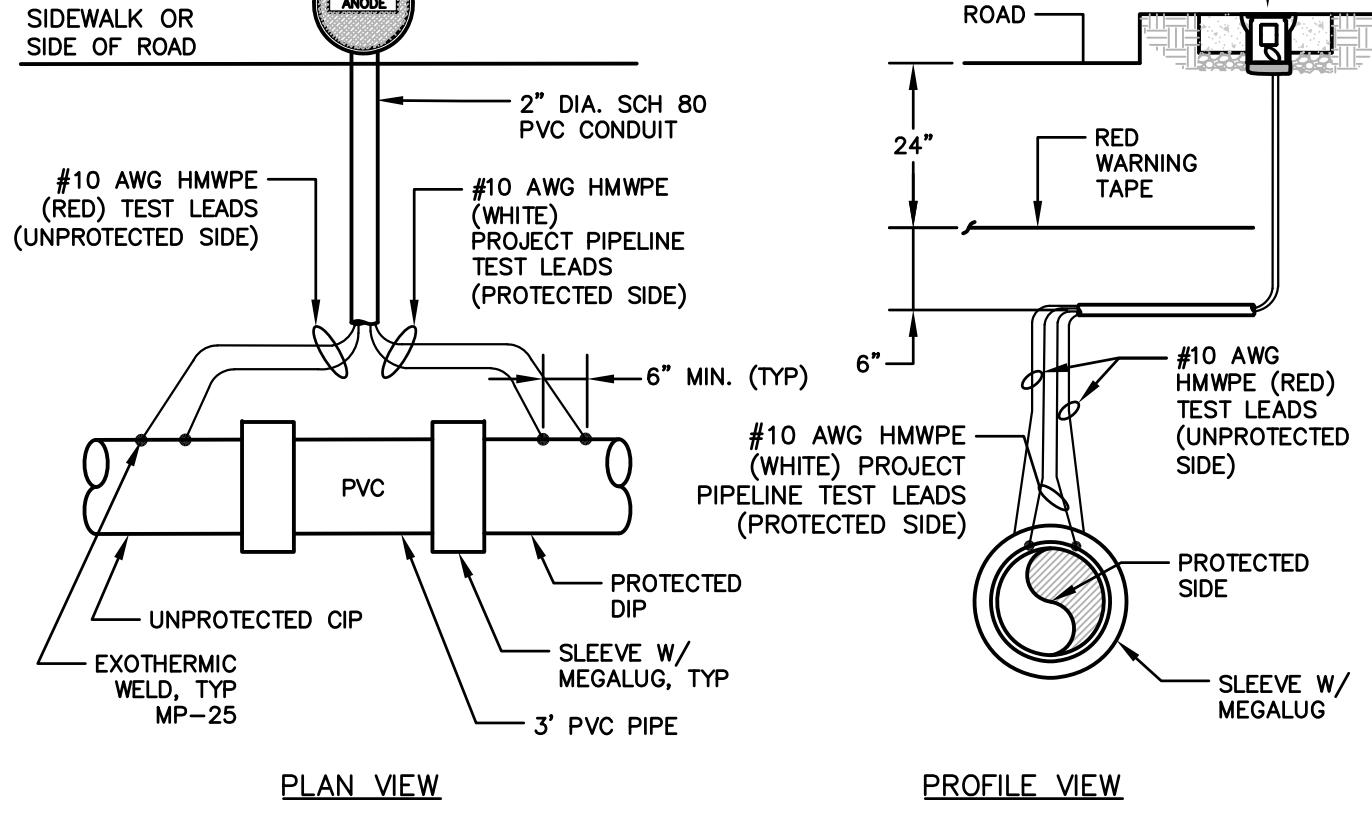
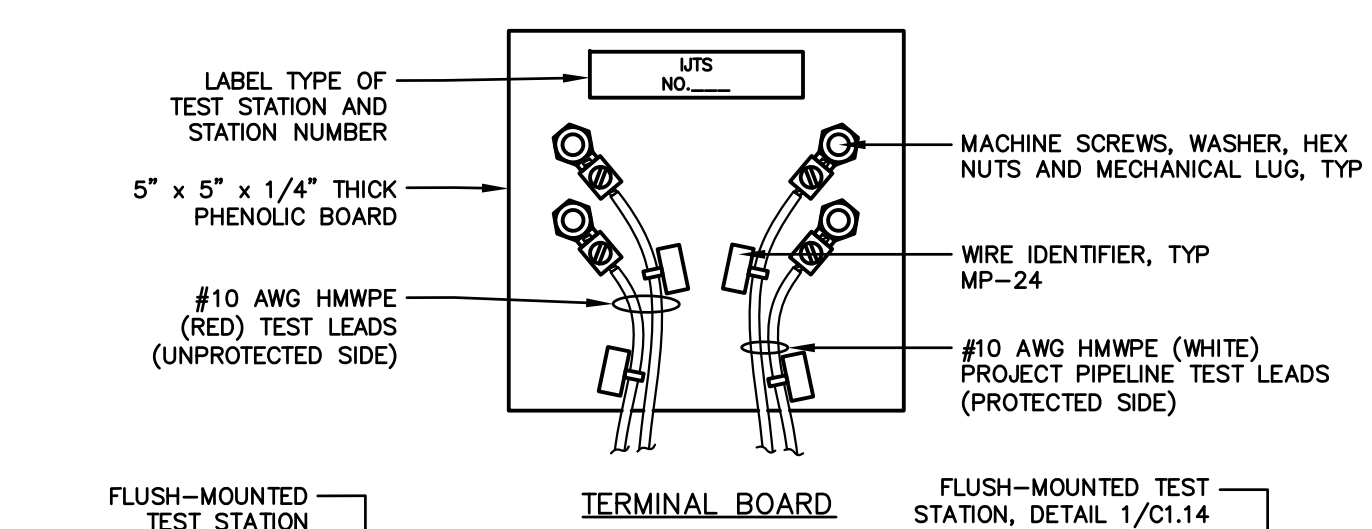
4 PIPE JOINT BONDING
NTS



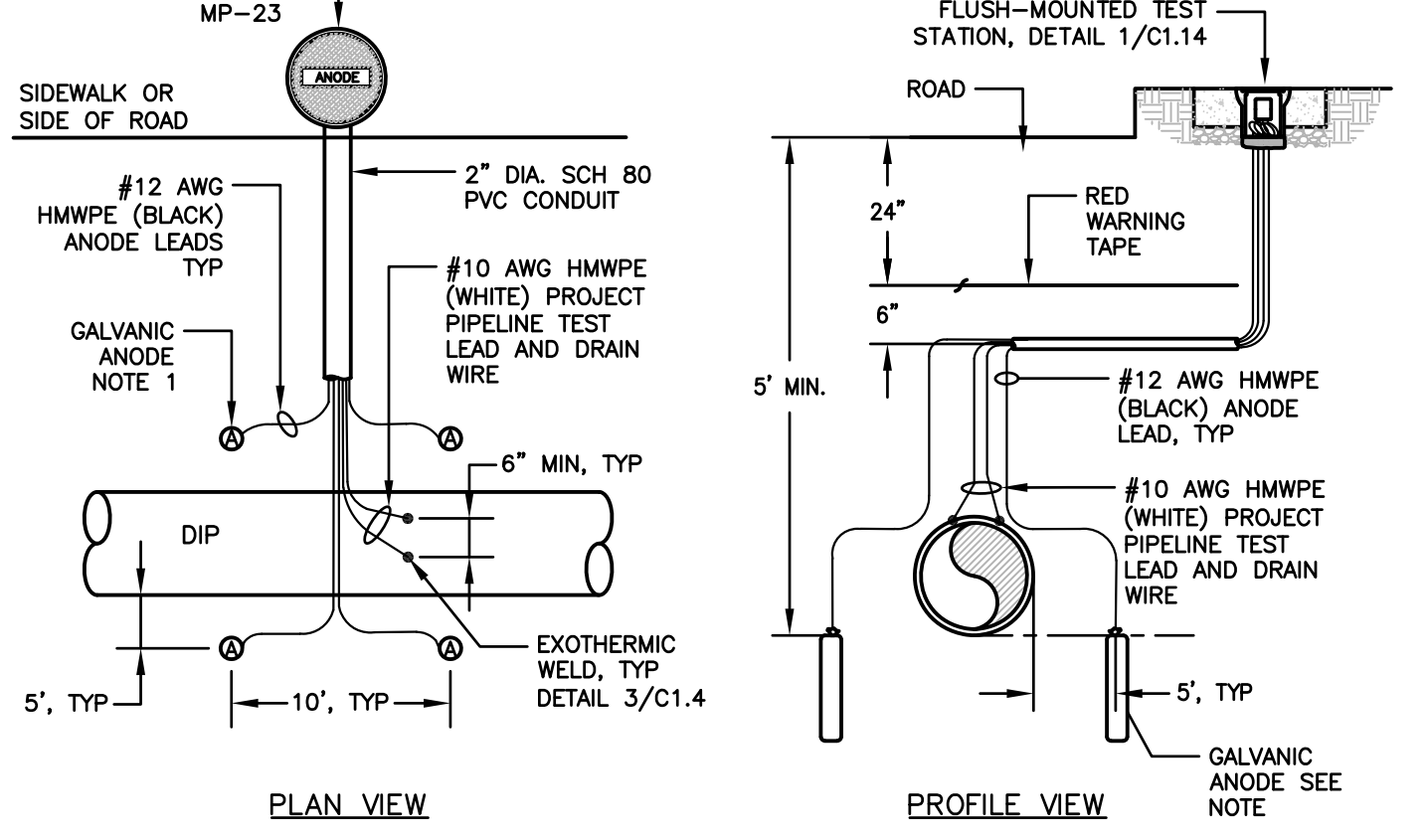
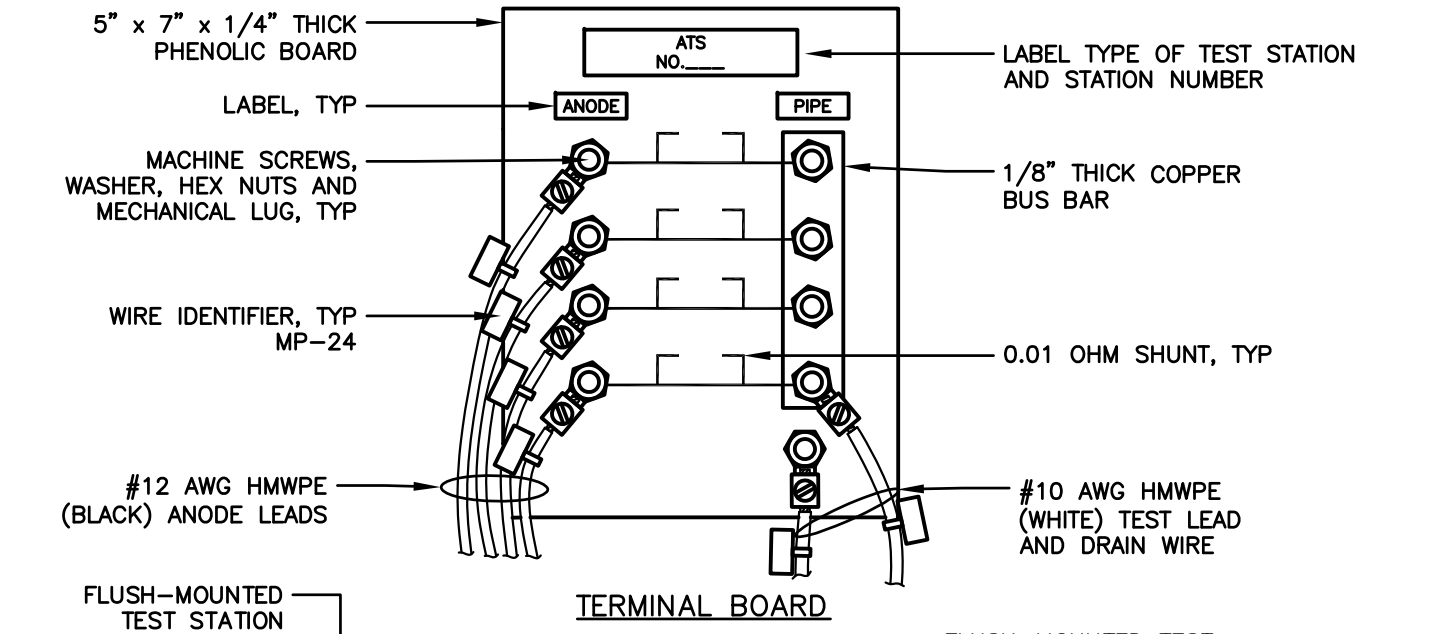
5 DOUBLE ENCASEMENT
NTS



6 POTENTIAL TEST STATION (PTS)
NTS



7 INSULATING JOINT TEST STATION (IJTS) AT CIP TIE-INS
NTS



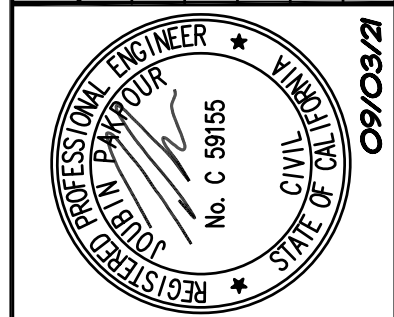
NOTES
1. FOUR (4) ANODES AND 60 LB HIGH-POTENTIAL MAGNESIUM.

8 ANODE TEST STATION (ATS)
NTS

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\0312\2014\Plan Sheets\Final\Submittal\03-HYDRO\03.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW

REVISIONS



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
JOURNIN PAKPOUR

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS

CONSTRUCTION DETAILS

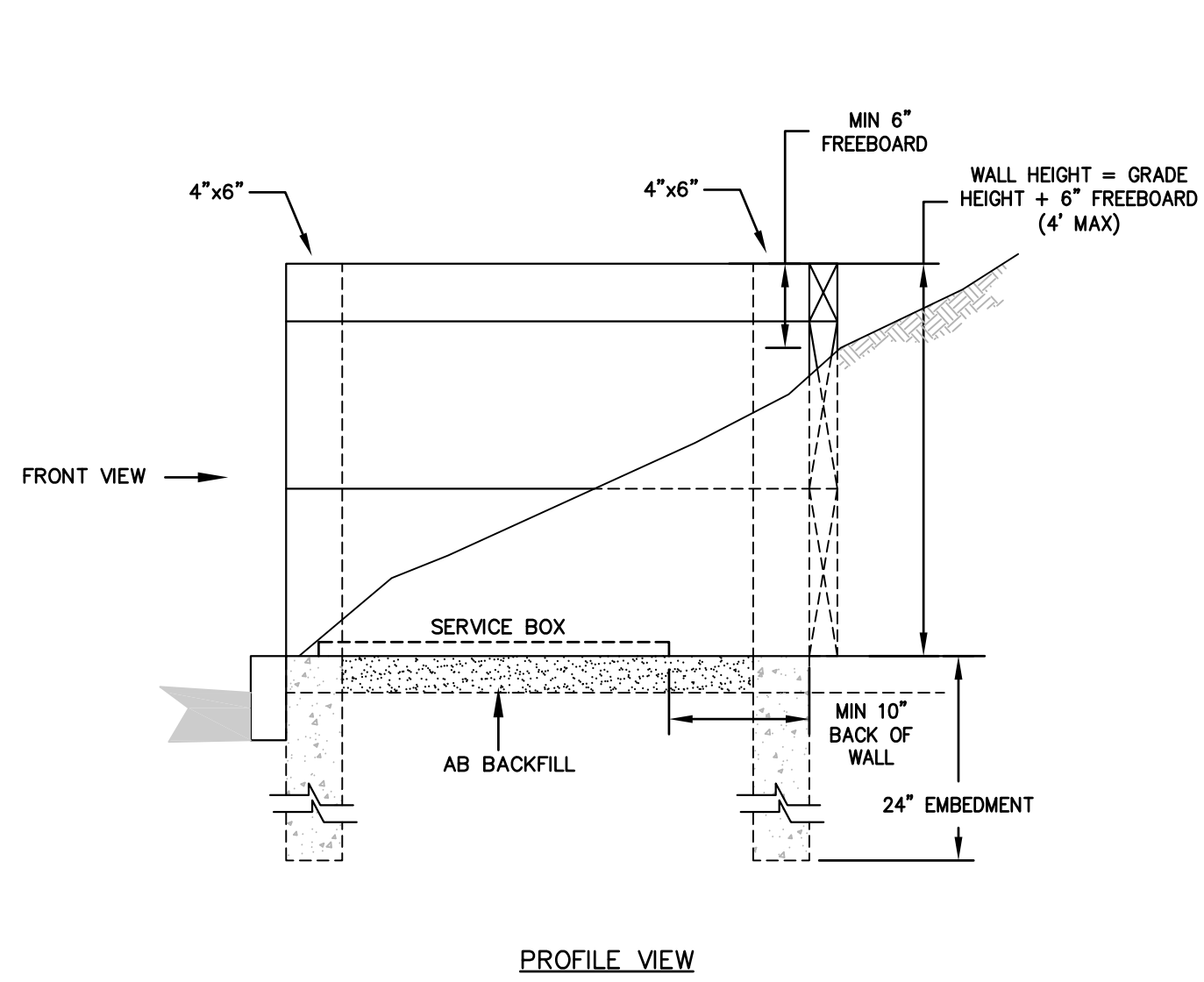
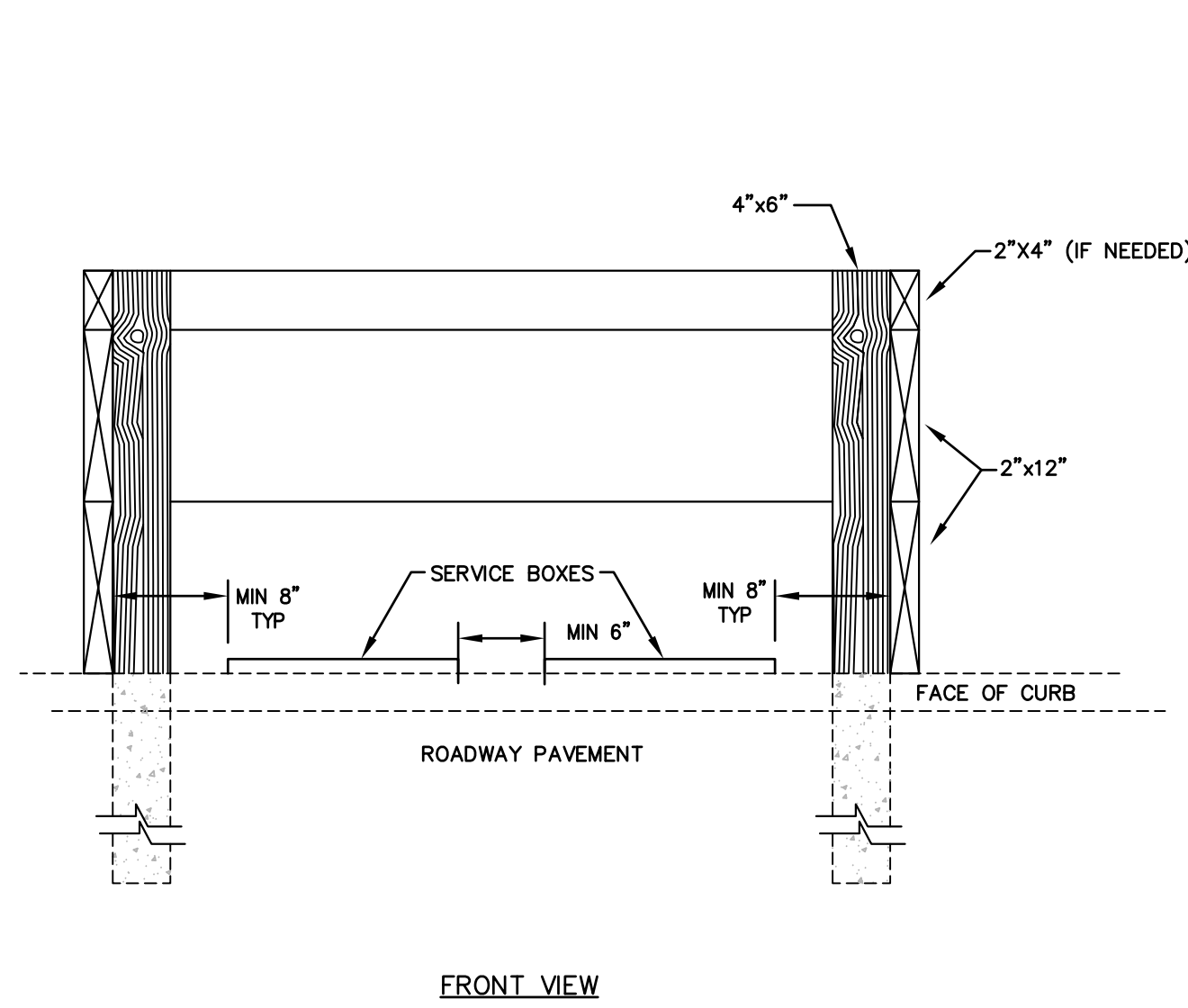
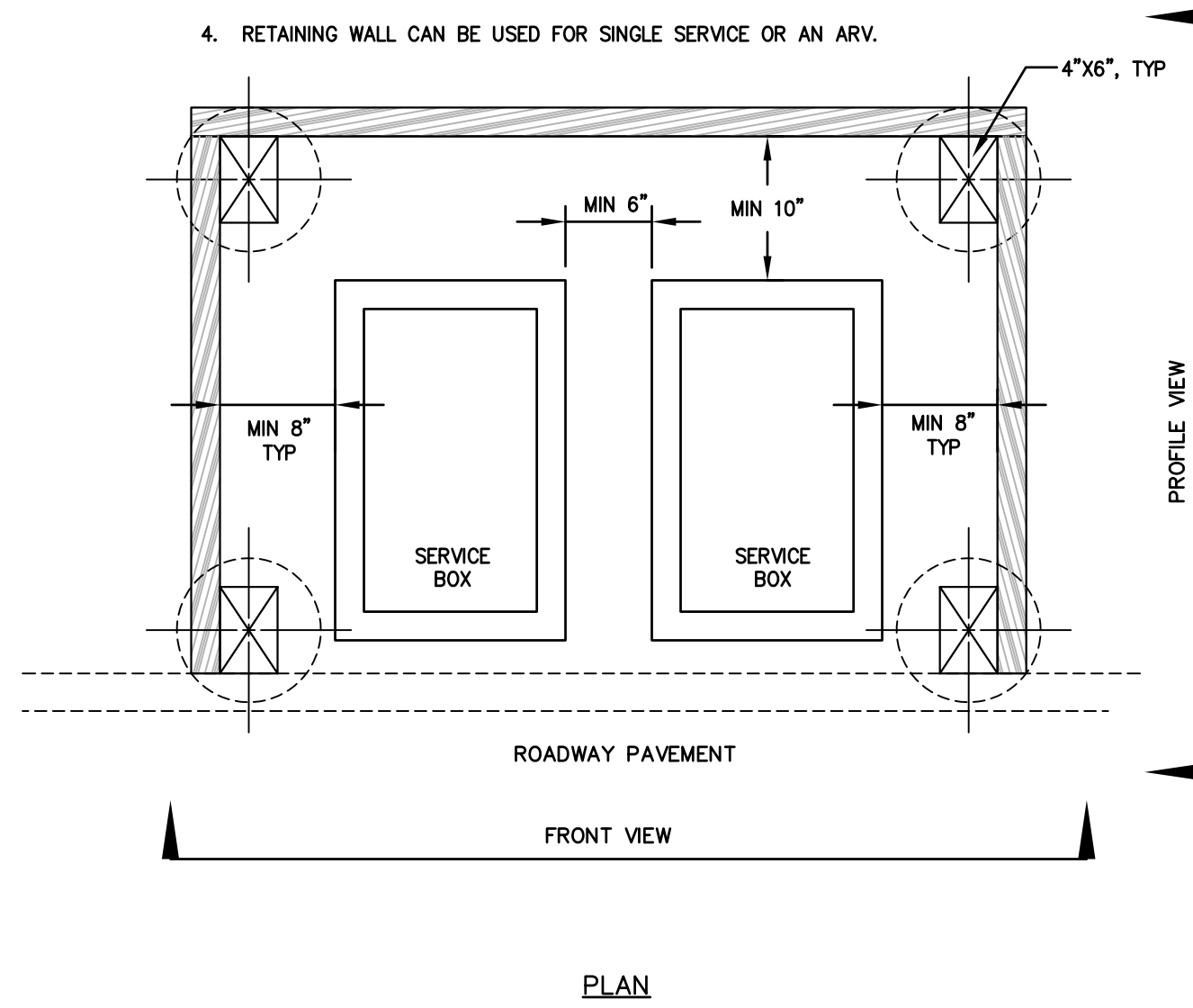
DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26
PLAN: C1.4
SHEET: 6 OF 19

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

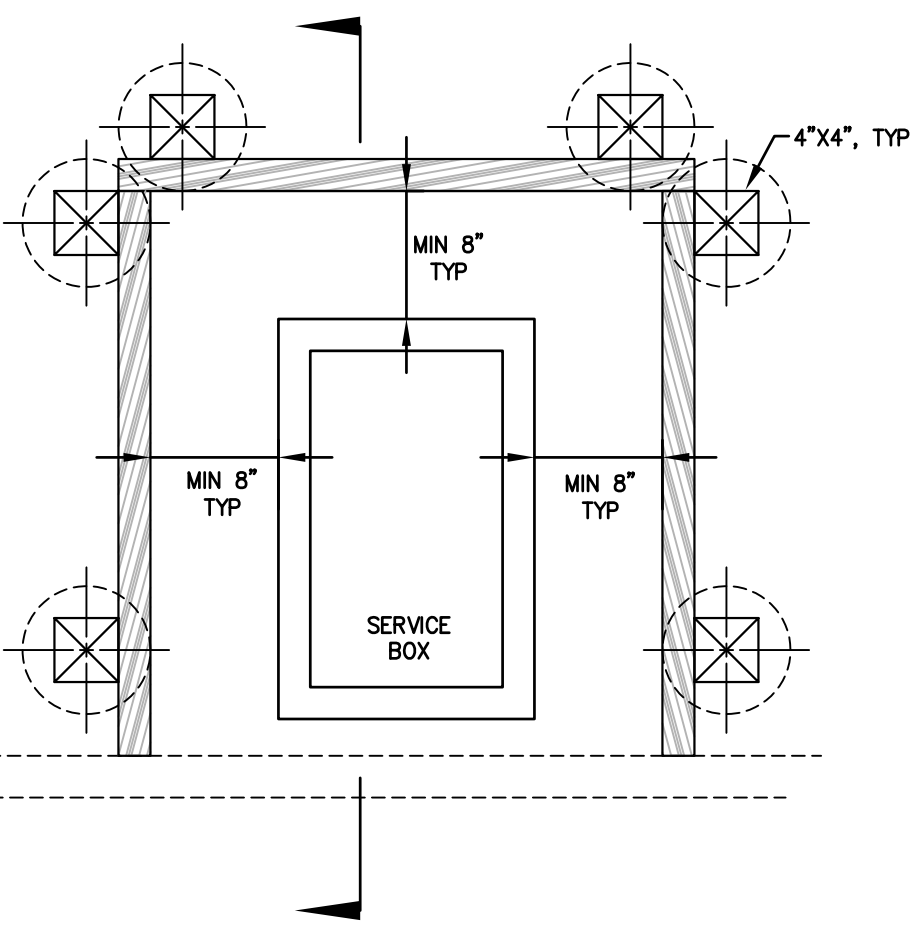
DRAWING NAME: J:\CADD\0312_26\Plan Sheets\Final\Submittal\03-HYD0703.dwg
PLOT DATE: 09/09/21, PLOTTED BY: VFWang

NOTES

1. ALL LUMBER SHALL BE PRESSURE TREATED LUMBER WITH 0.40 LBS/CF RETENTION OR GREATER.
2. ALL DIMENSIONS SHOWN ARE FOR A TYPICAL RETAINING WALL. FIELD CONDITIONS MAY REQUIRE DEVIATION FROM DETAIL. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND OBTAIN APPROVAL FROM THE DISTRICT BEFORE MAKING CHANGES.
3. HAND EXCAVATION REQUIRED ON ALL GAS, WATER, AND ELECTRICAL UTILITIES.
4. RETAINING WALL CAN BE USED FOR SINGLE SERVICE OR AN ARV.

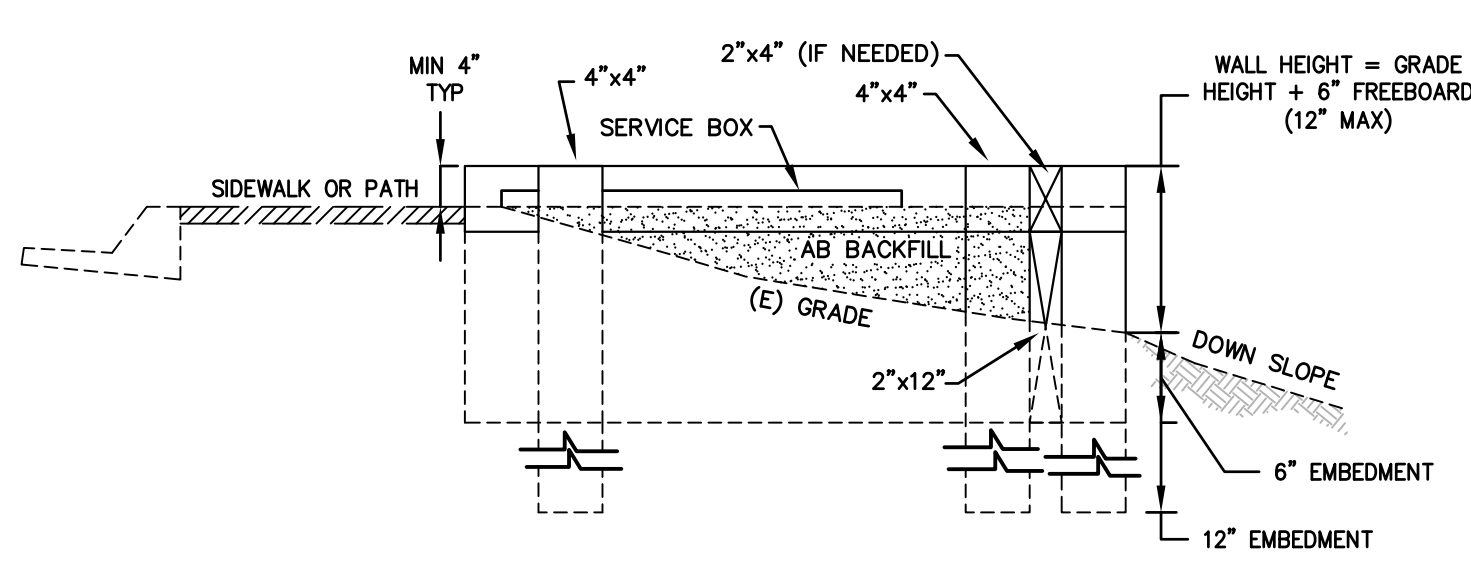


1 WATER SERVICES AND ARV RETAINING WALL
NTS

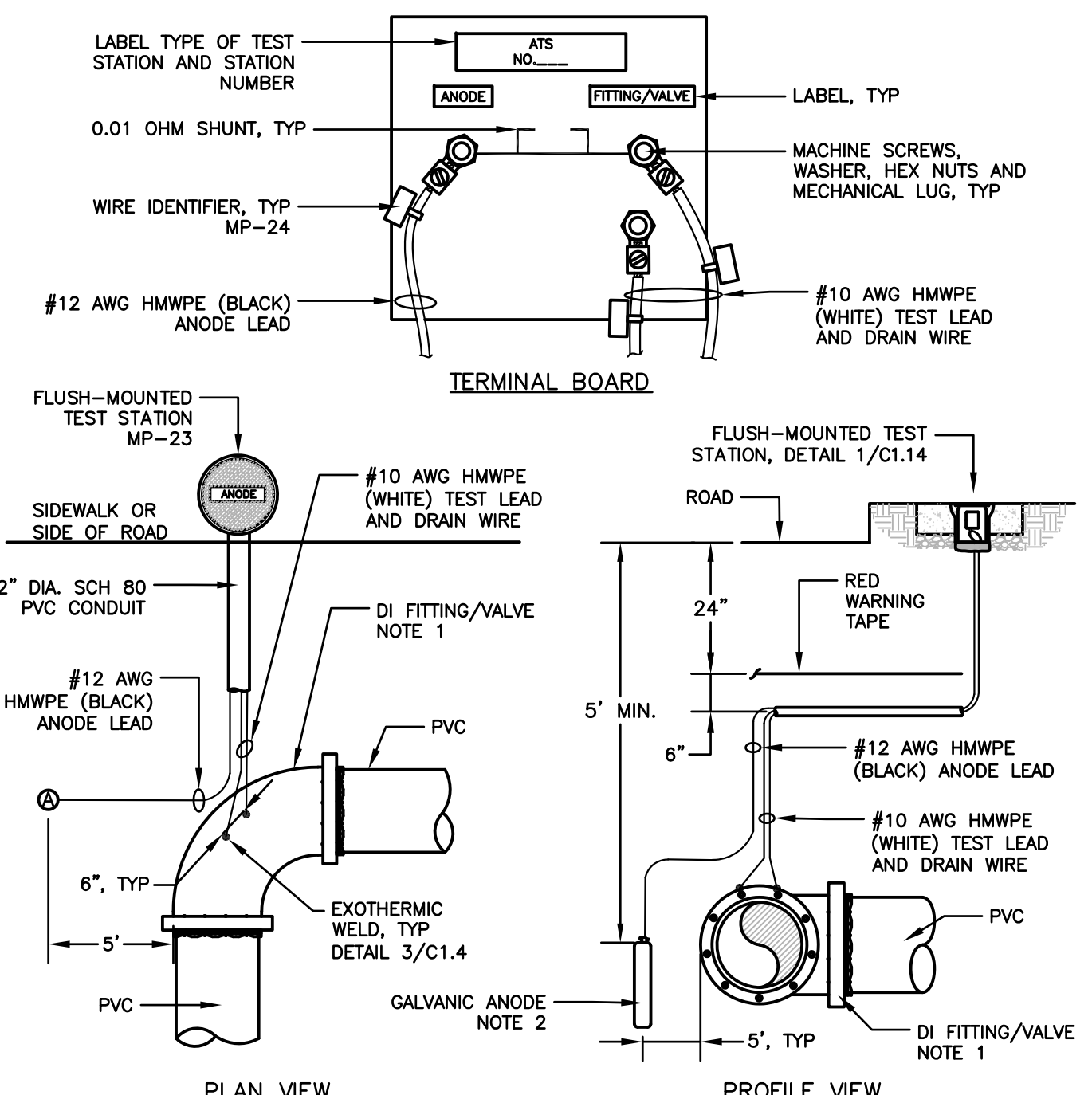


NOTES

1. ALL LUMBER SHALL BE PRESSURE TREATED LUMBER WITH 0.40 LBS/CF RETENTION OR GREATER.
2. ALL DIMENSIONS SHOWN ARE FOR A TYPICAL PAD. FIELD CONDITIONS MAY REQUIRE DEVIATION FROM DETAIL. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND OBTAIN APPROVAL FROM THE DISTRICT BEFORE MAKING CHANGES.
3. HAND EXCAVATION REQUIRED ON ALL GAS, WATER, AND ELECTRICAL UTILITIES.
4. PAD WALL CAN BE USED FOR MULTIPLE SERVICES OR AN ARV.



2 SERVICE PAD (DOWN SLOPE)
NTS



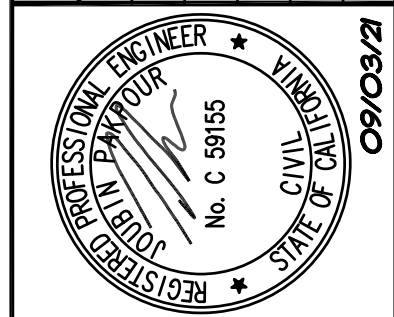
NOTES

1. DUCTILE IRON FITTING/VALVE MAY BE DIFFERENT GEOMETRY, SUCH AS TEE OR INLINE VALVE OR SLEEVE CONNECTION.
2. ONE (1) ANODE AND 60 LB HIGH-POTENTIAL MAGNESIUM.

**3 ANODE TEST STATION (ATS)
DI FITTING/ VALVE WITH PVC PIPE**
NTS

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
JOURBIN PAKFOUR

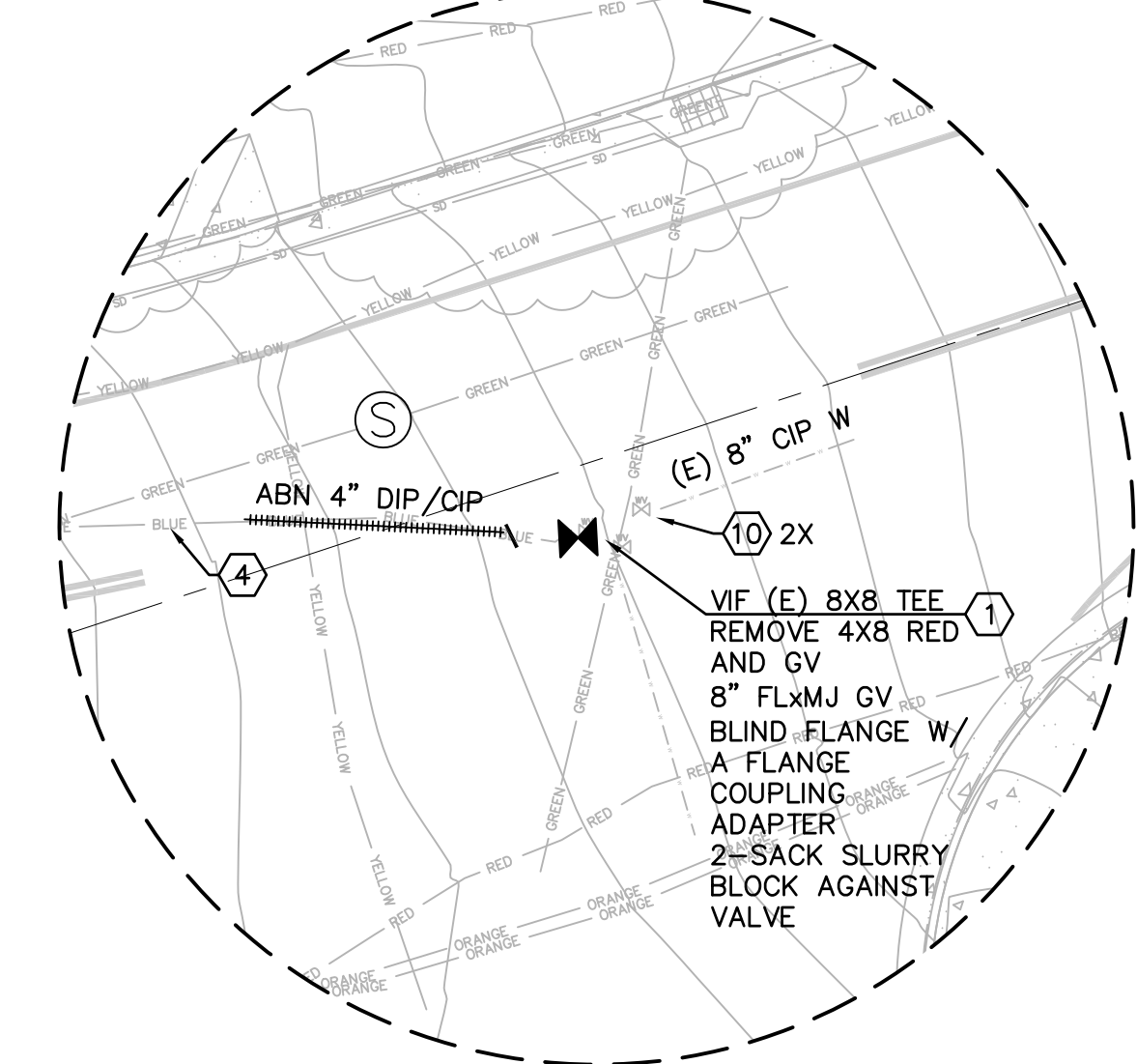
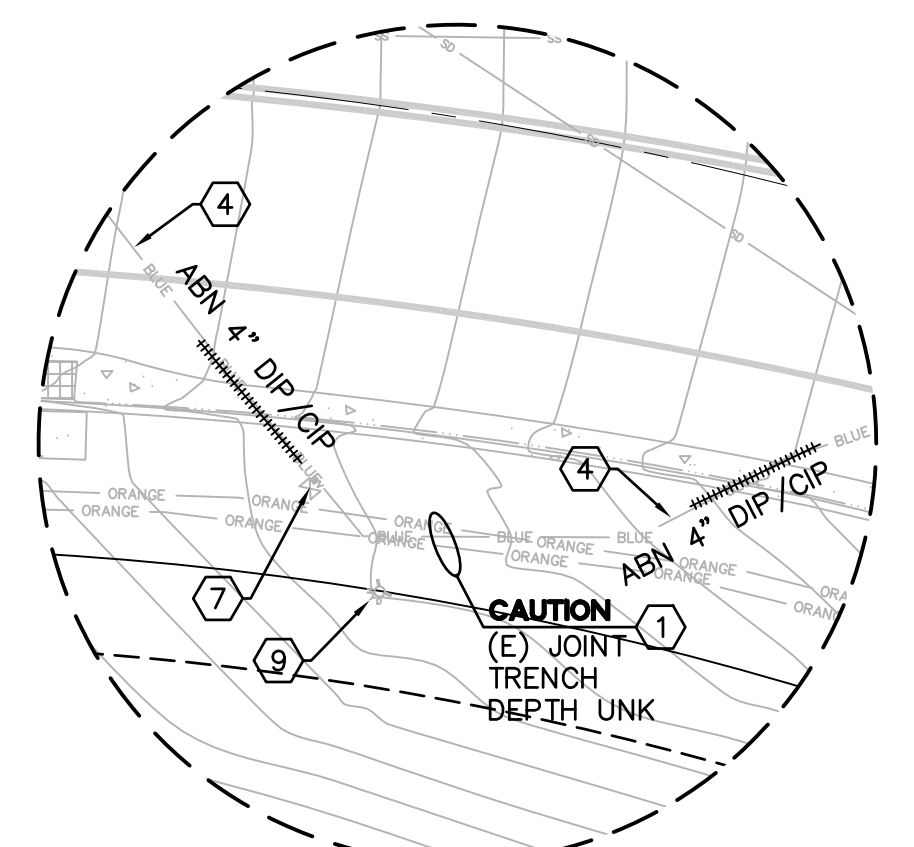
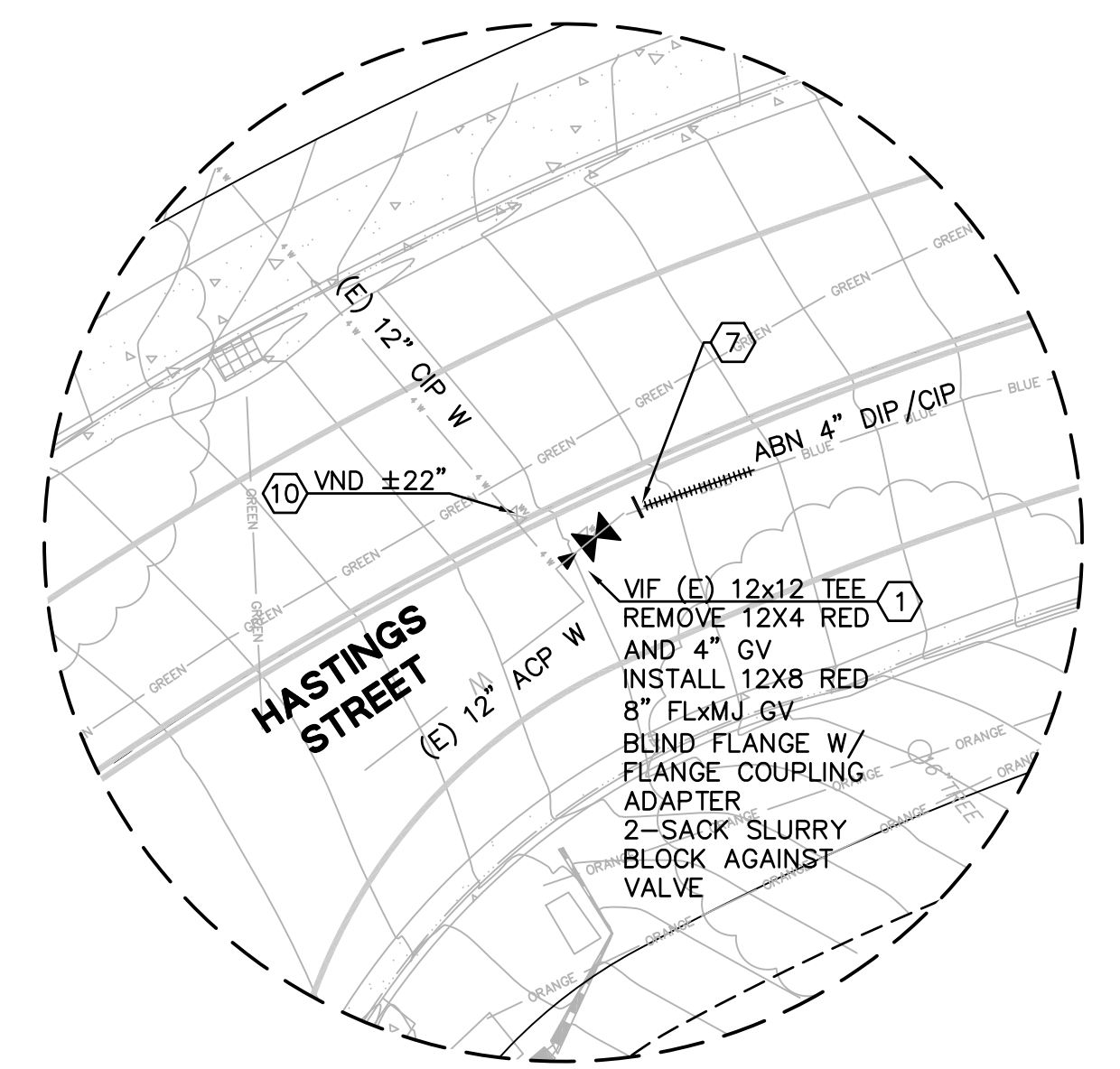
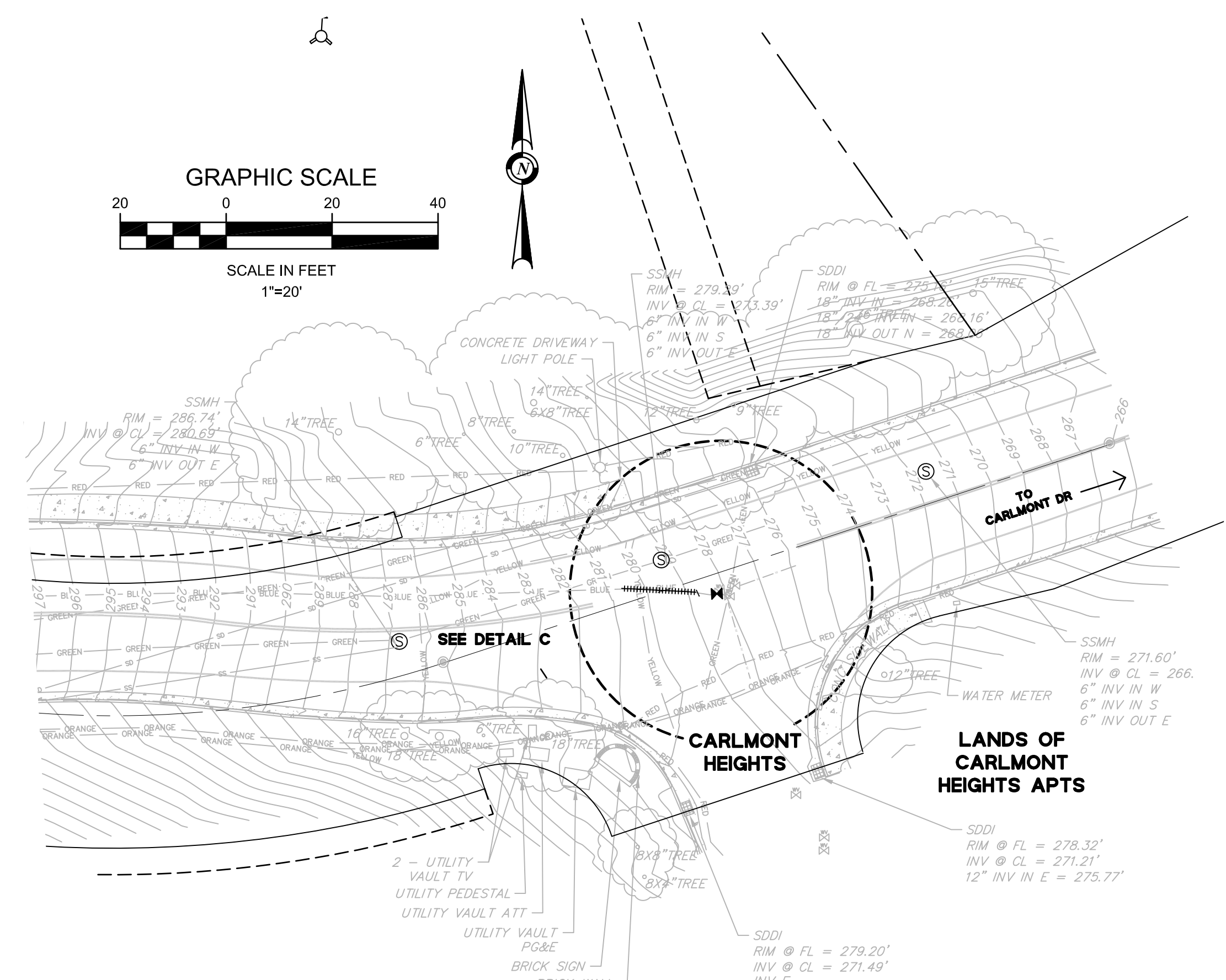
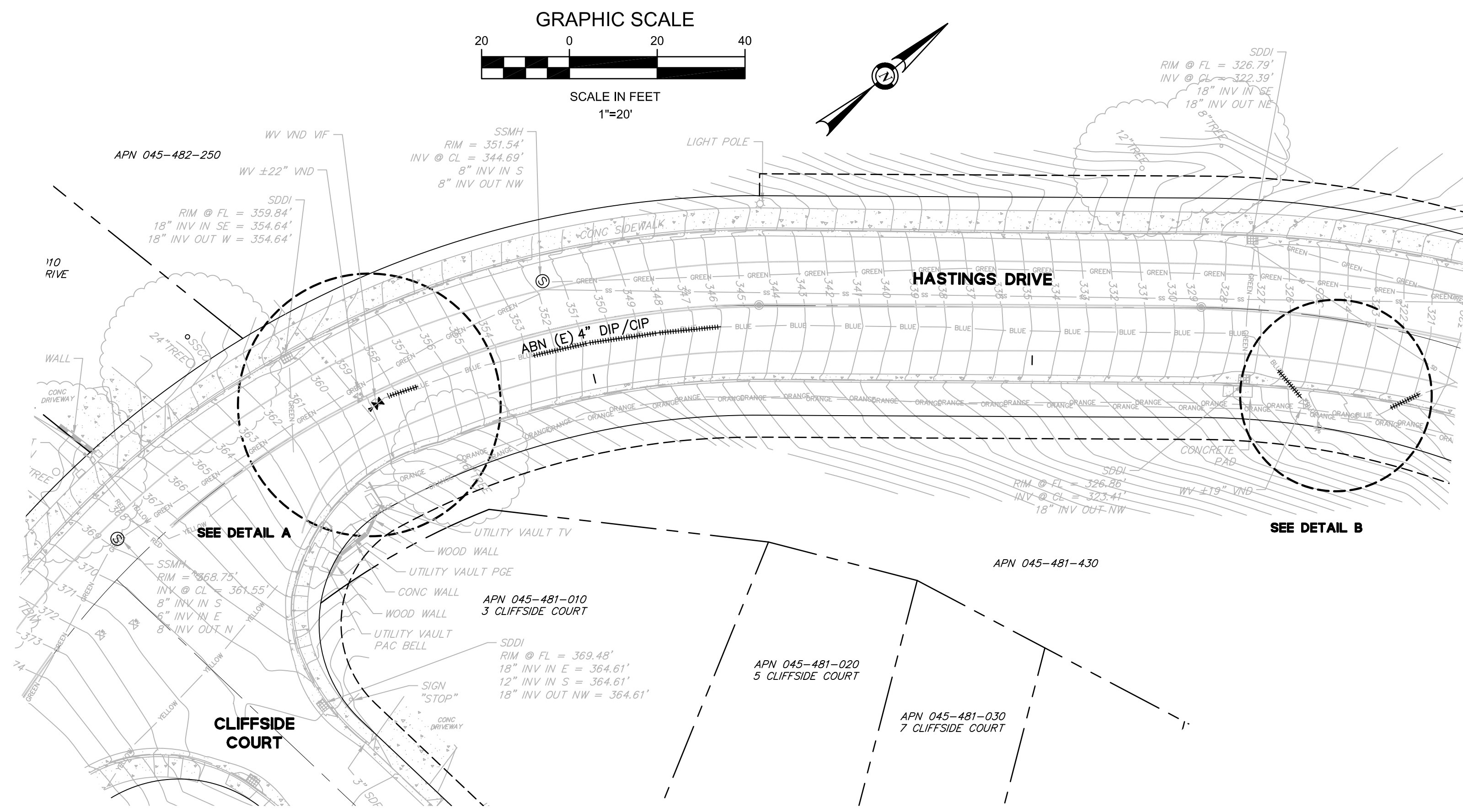
MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS

CONSTRUCTION DETAILS

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26
PLAN: **C15**
SHEET: **7** OF **19**

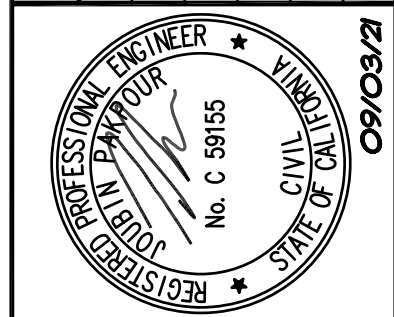
FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\021220\Plan Sheets\Final Submittal\041HYDRPHAS1.dwg
PLOT DATE: 09/03/21, PLOTTED BY: VFW



REVISIONS

NO.	DESCRIPTION	BY	DATE	APP'D



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

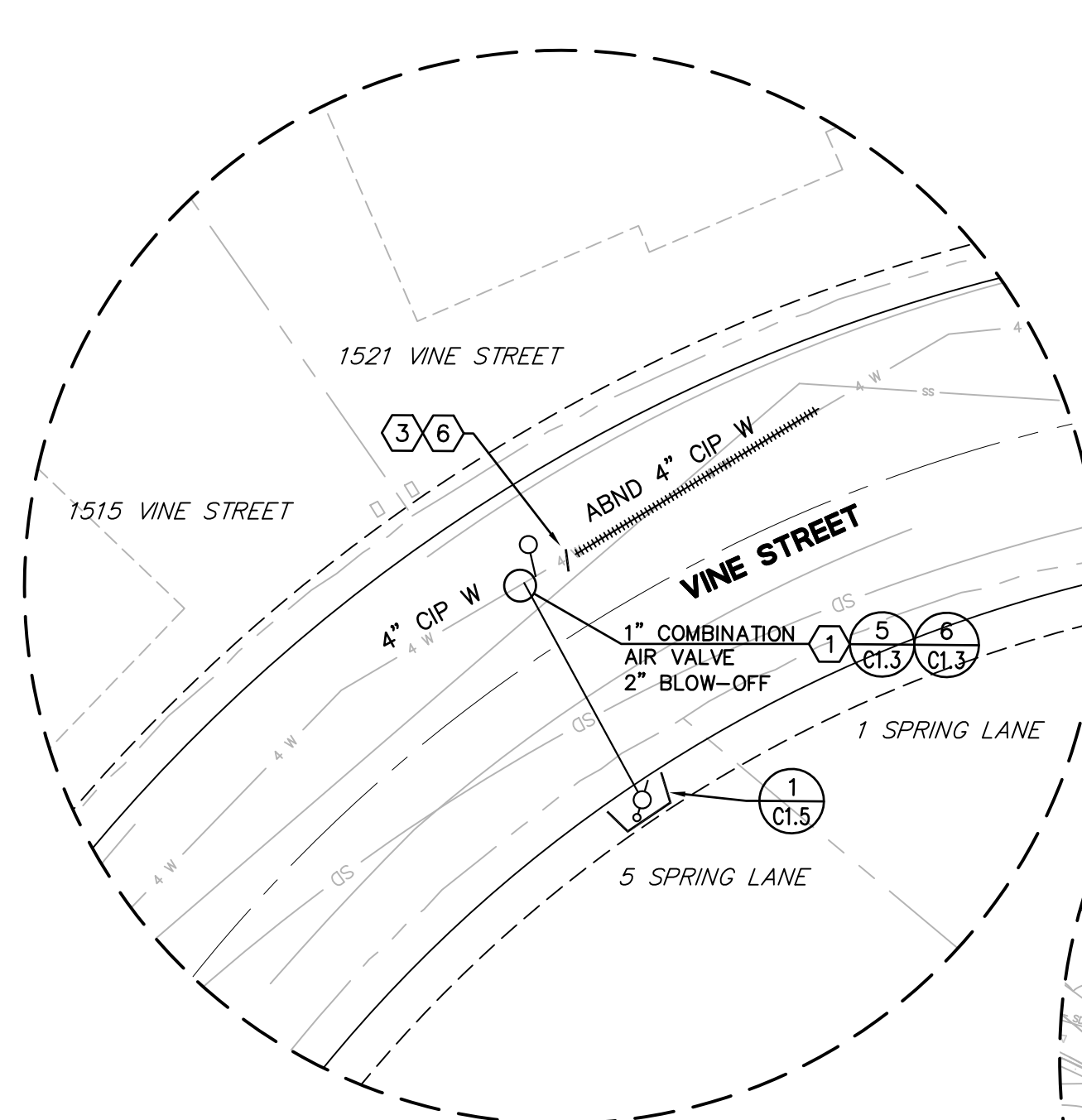
09/03/21

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
HASTINGS DR
WATER MAIN ABANDONMENTS

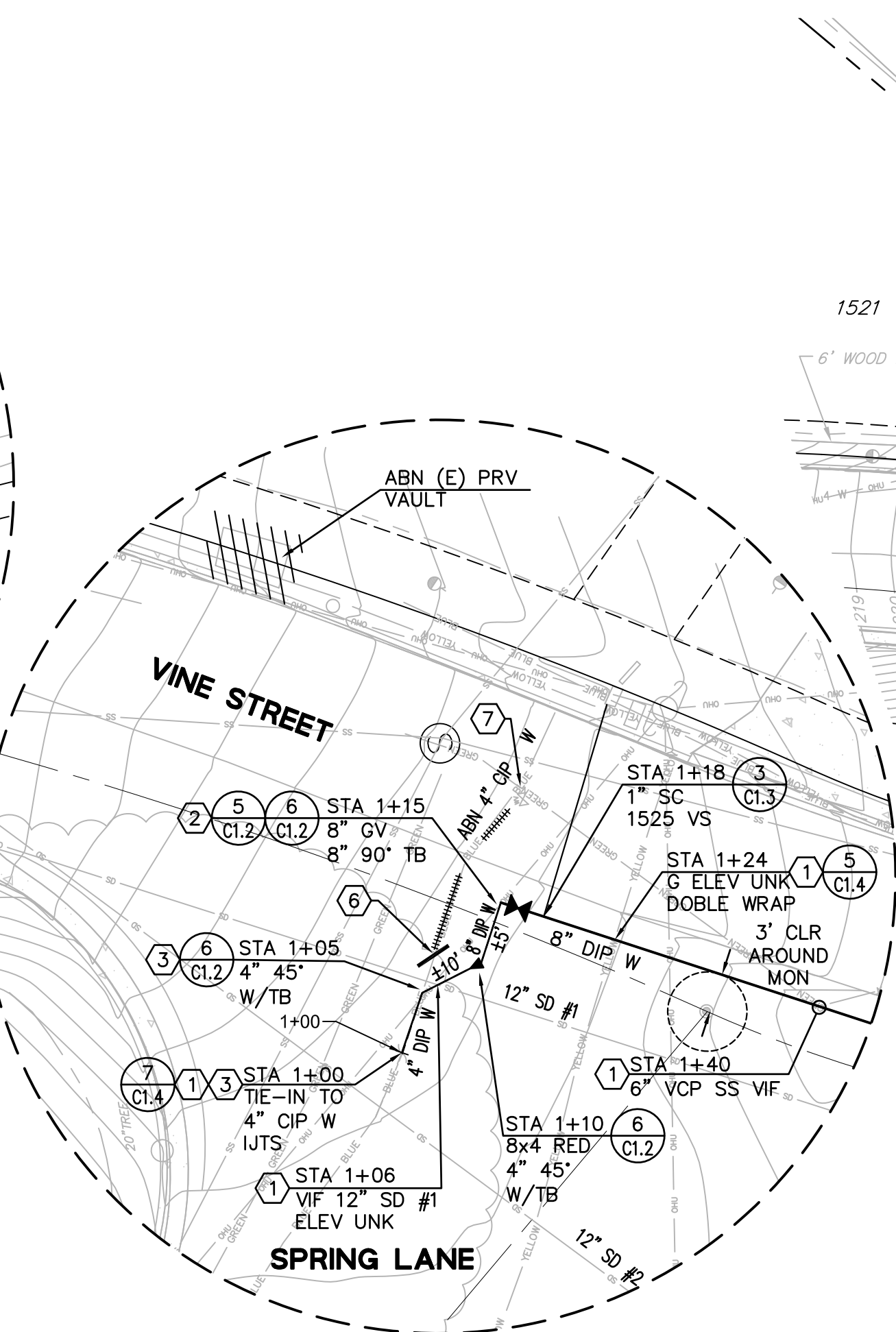
DATE	09/03/21	SCALE	AS NOTED
PCG JOB NO.	10012.26	PLAN	C2.1
SHEET	8	OF	19

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

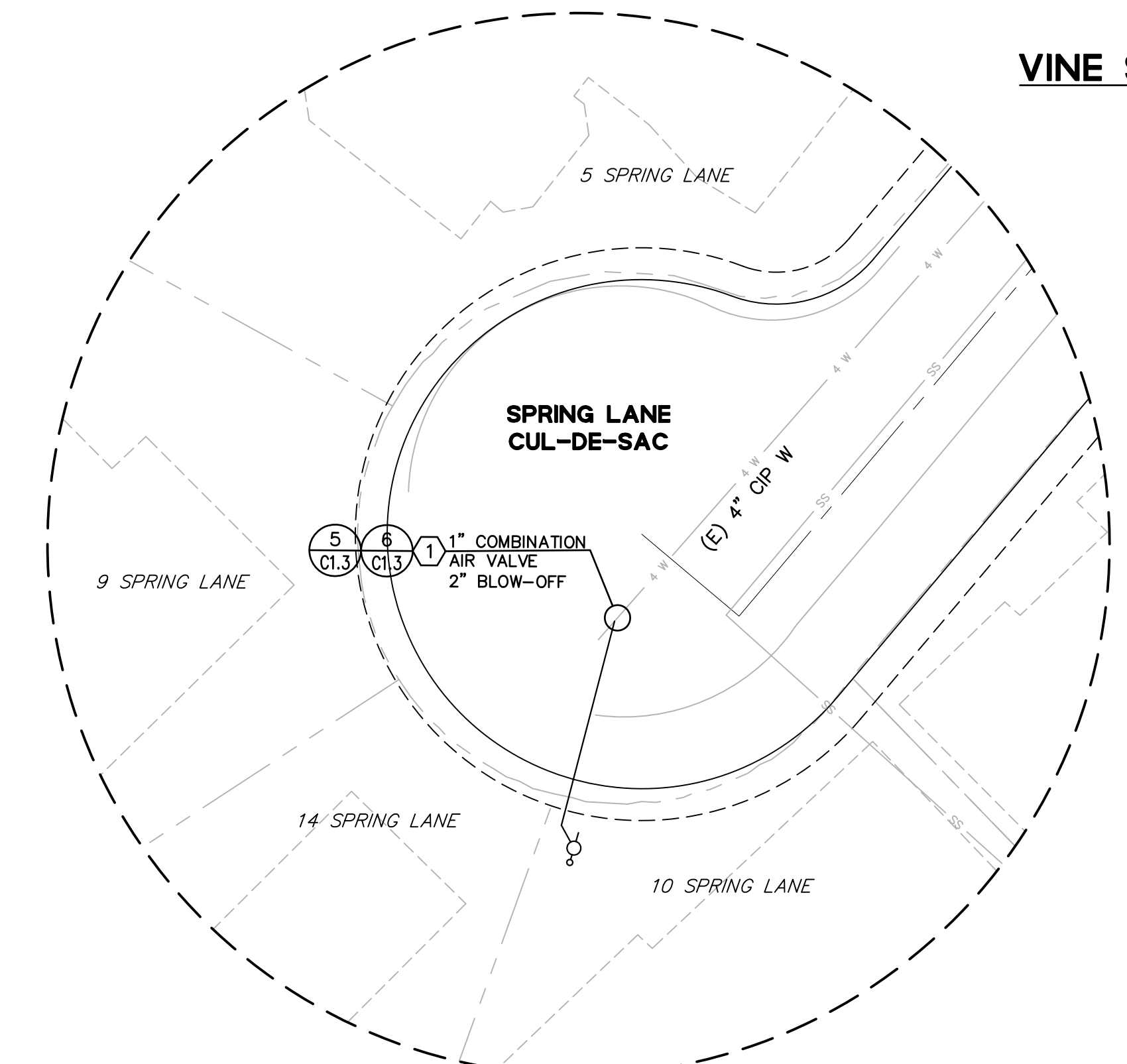
DRAWING NAME: J:\CADD\012.26\Plan Sheets\Final\Submittal\09-15-2016\09-15-2016.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW



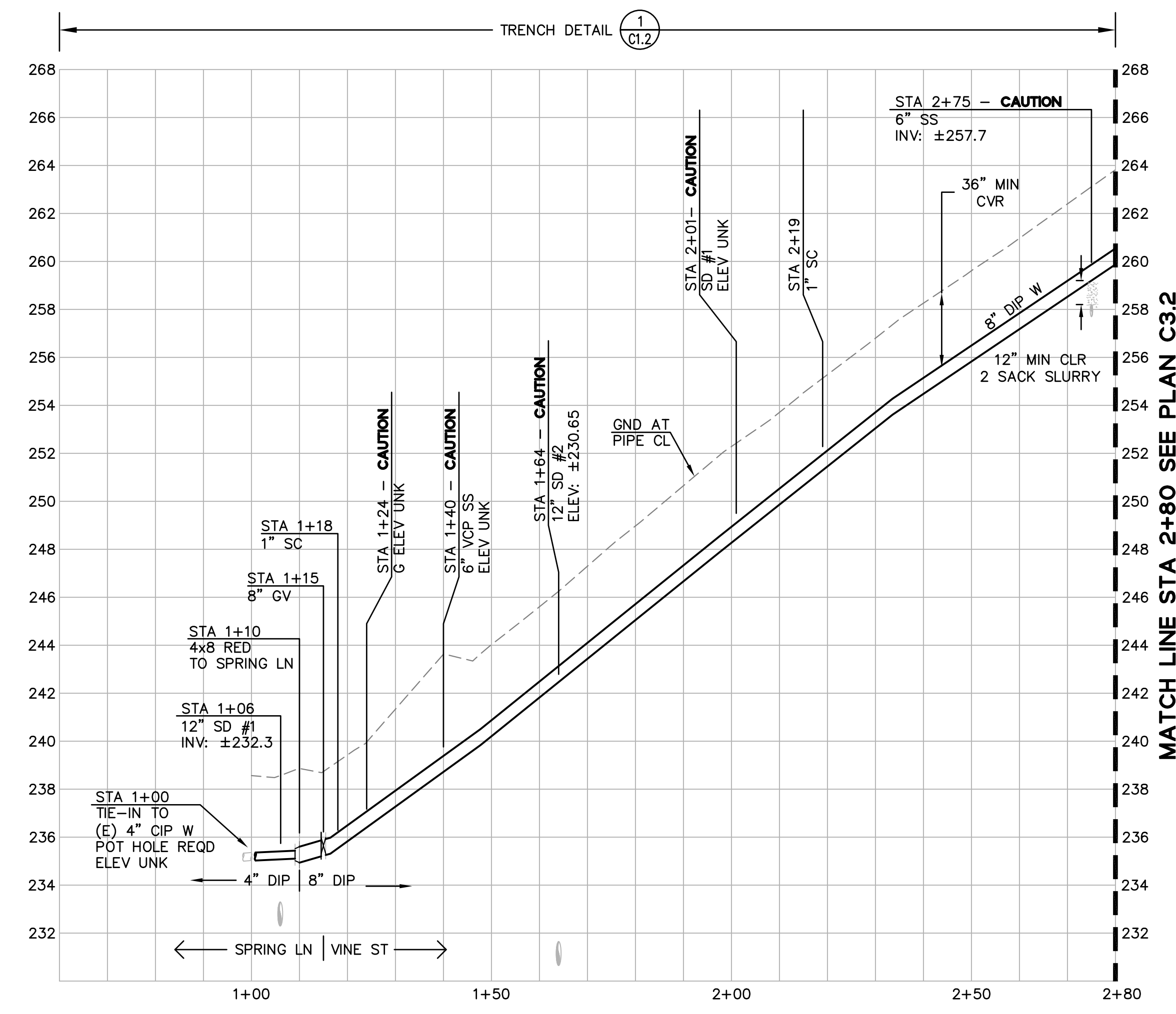
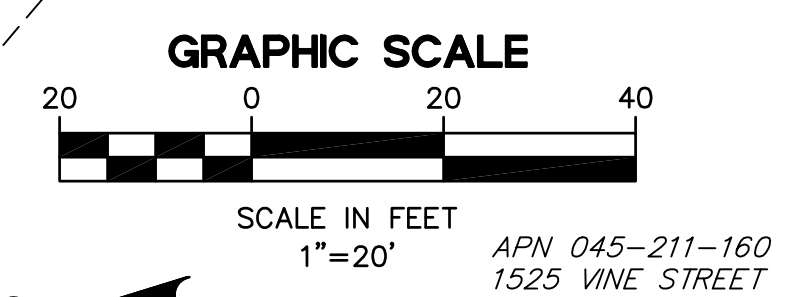
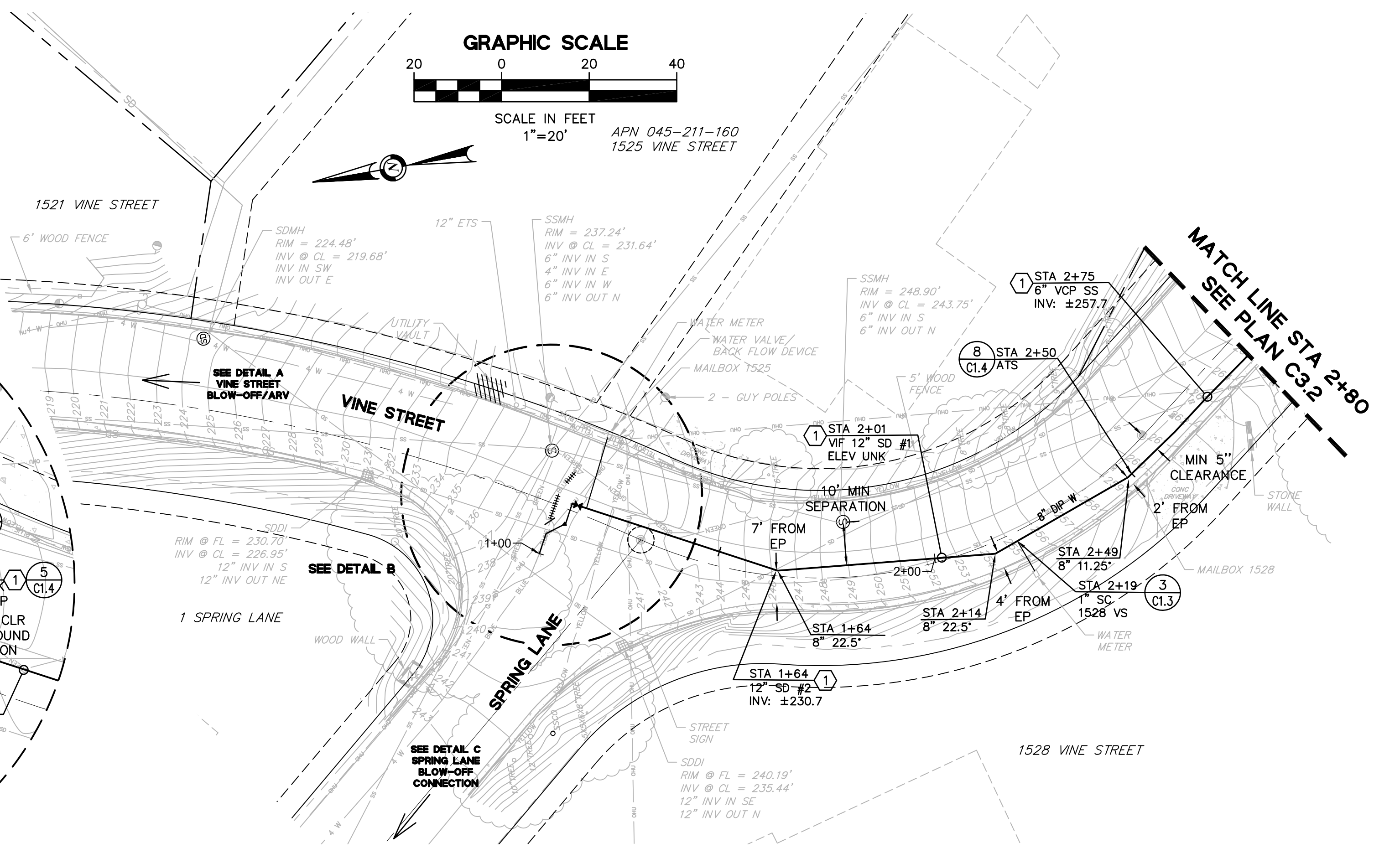
DETAIL A
VINE STREET BLOW-OFF/ARV
CONNECTION
SCALE 1"=10'



DETAIL B
VINE STREET CONNECTION
SCALE 1"=10'



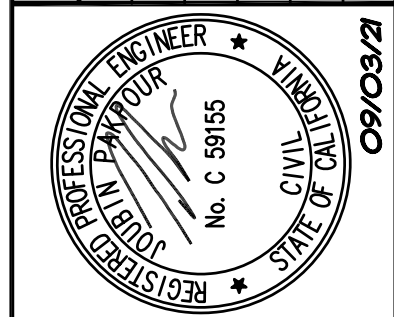
DETAIL C
SPRING LANE BLOW-OFF
CONNECTION
SCALE 1" = 10'



PROFILE
HORZ SCALE 1"=20'
VERT SCALE 1"=4'

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG

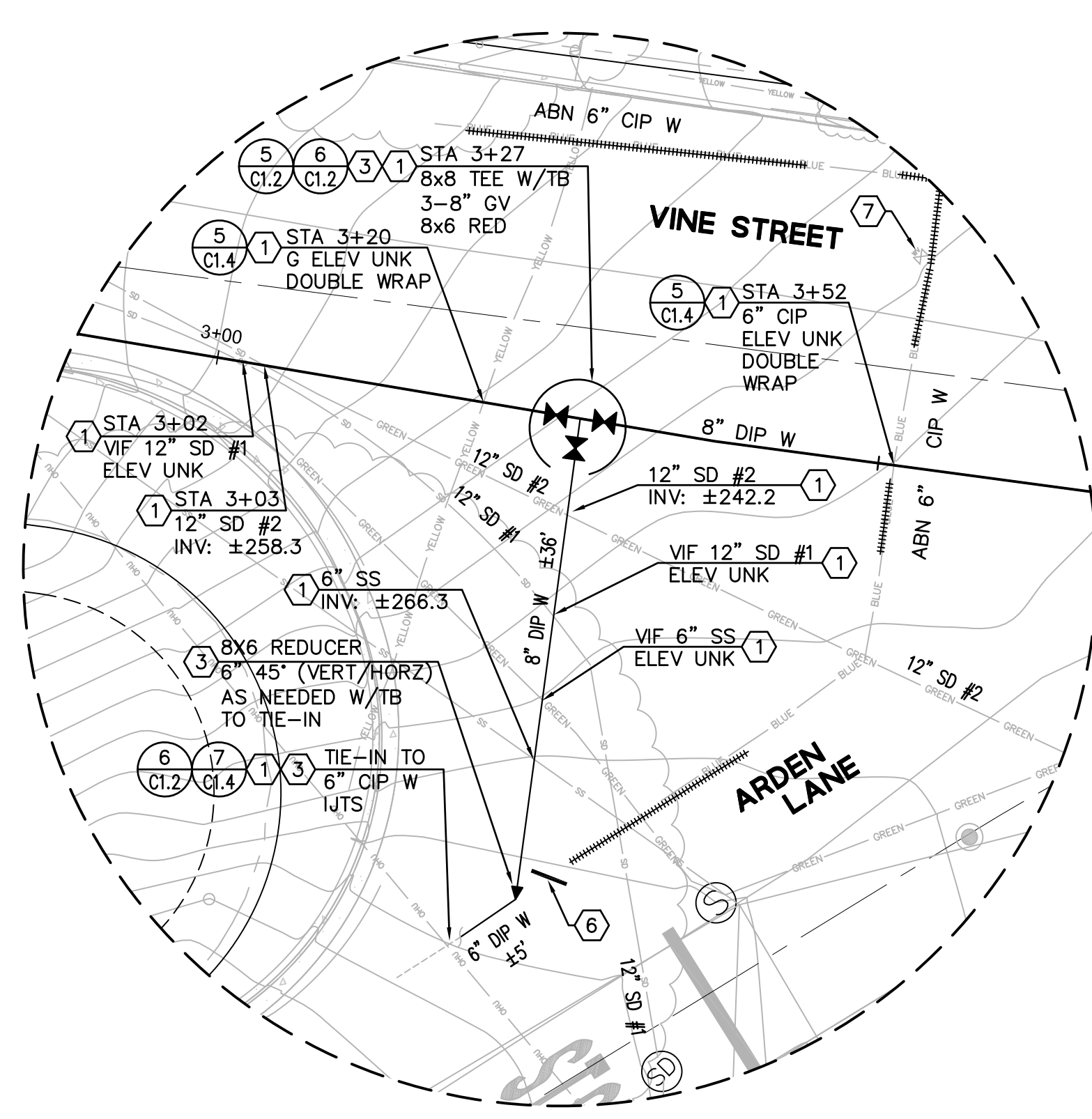
APPROVED: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
VINE ST - PLAN AND PROFILE
STA 1+00 TO STA 2+80

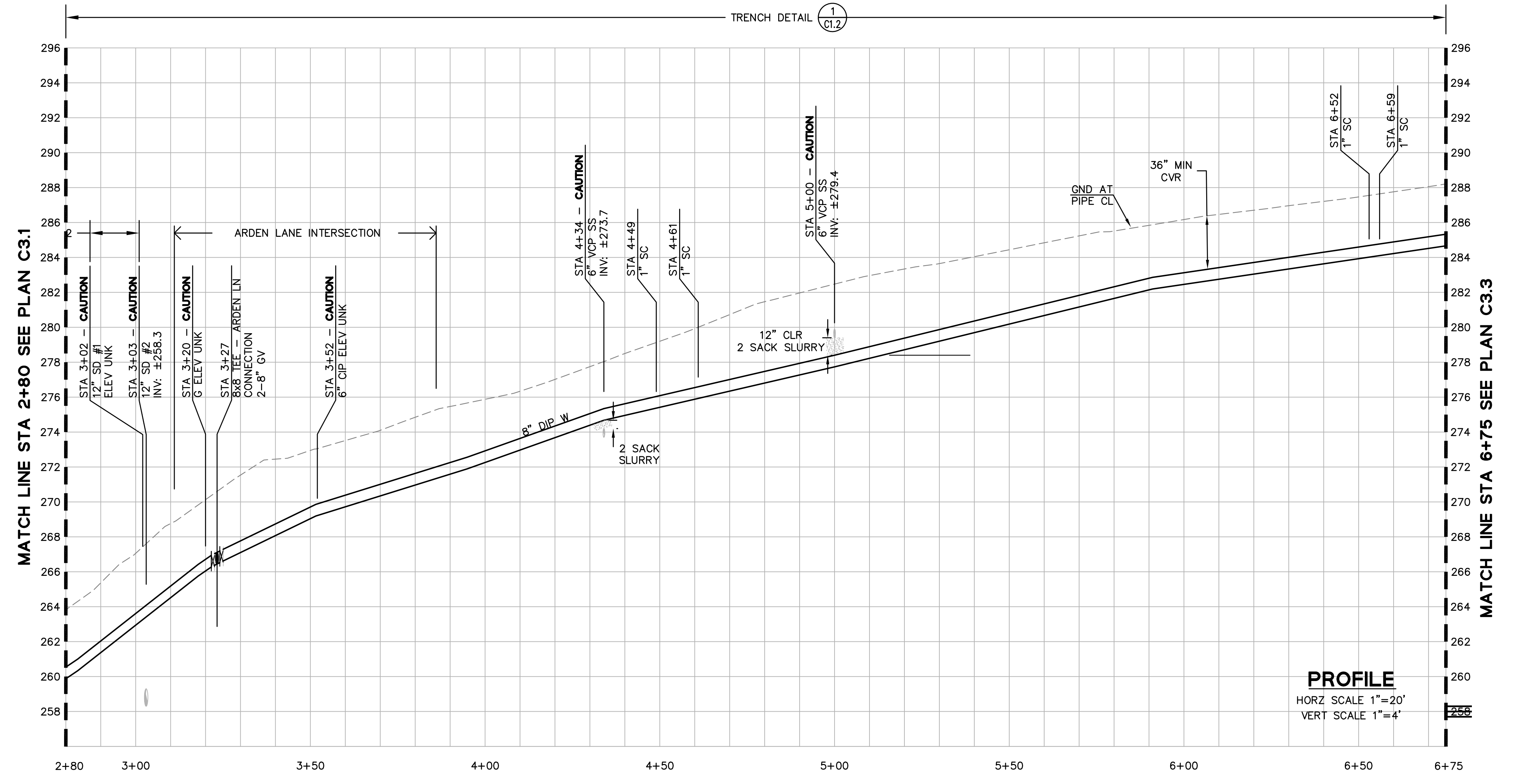
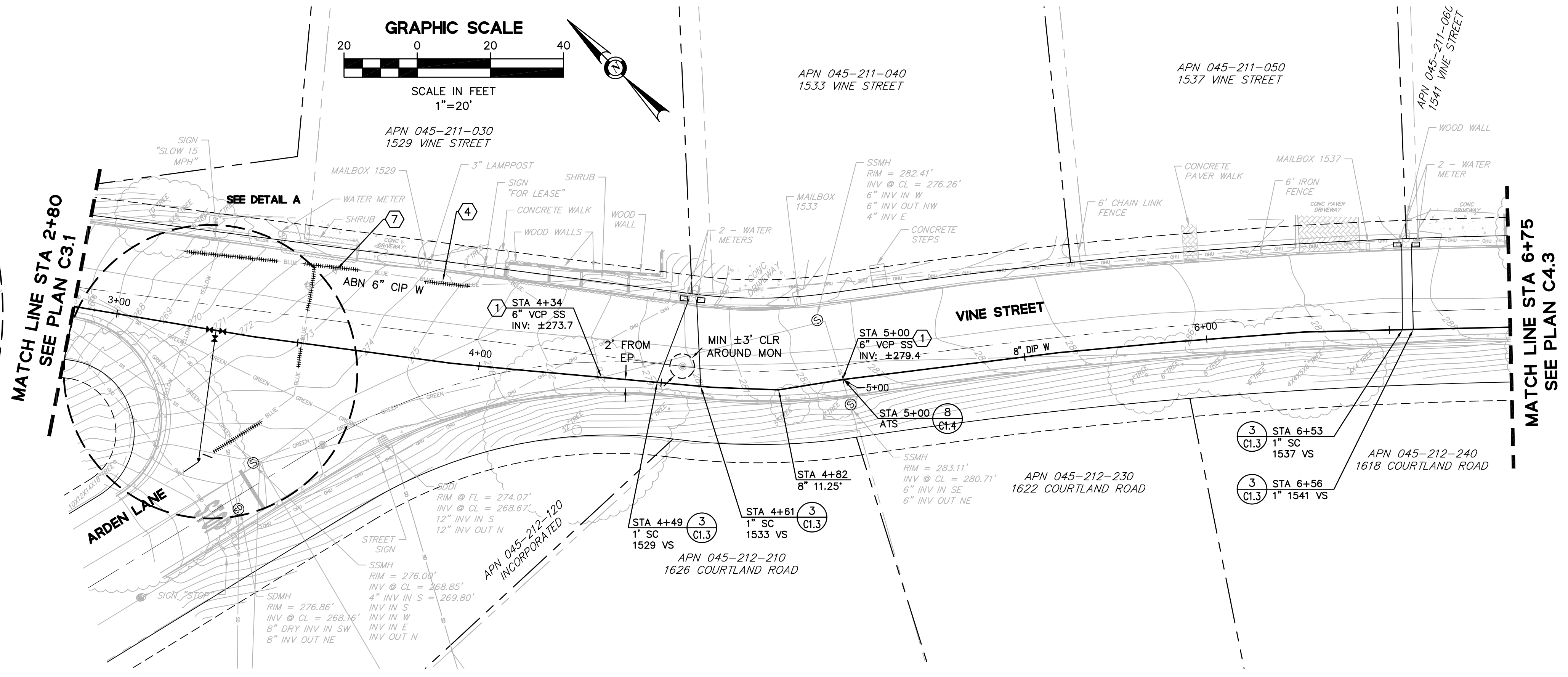
DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26
PLAN: **C3.1**
SHEET: **9** OF **19**

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\0012_20\Plan Sheets\Final\Submittal\05-HV05P01VINE.dwg
PLOT DATE: 09/03/21, PLOTTED BY: VFW



DETAIL A
ARDEN LANE CONNECTION
SCALE 1"=10'

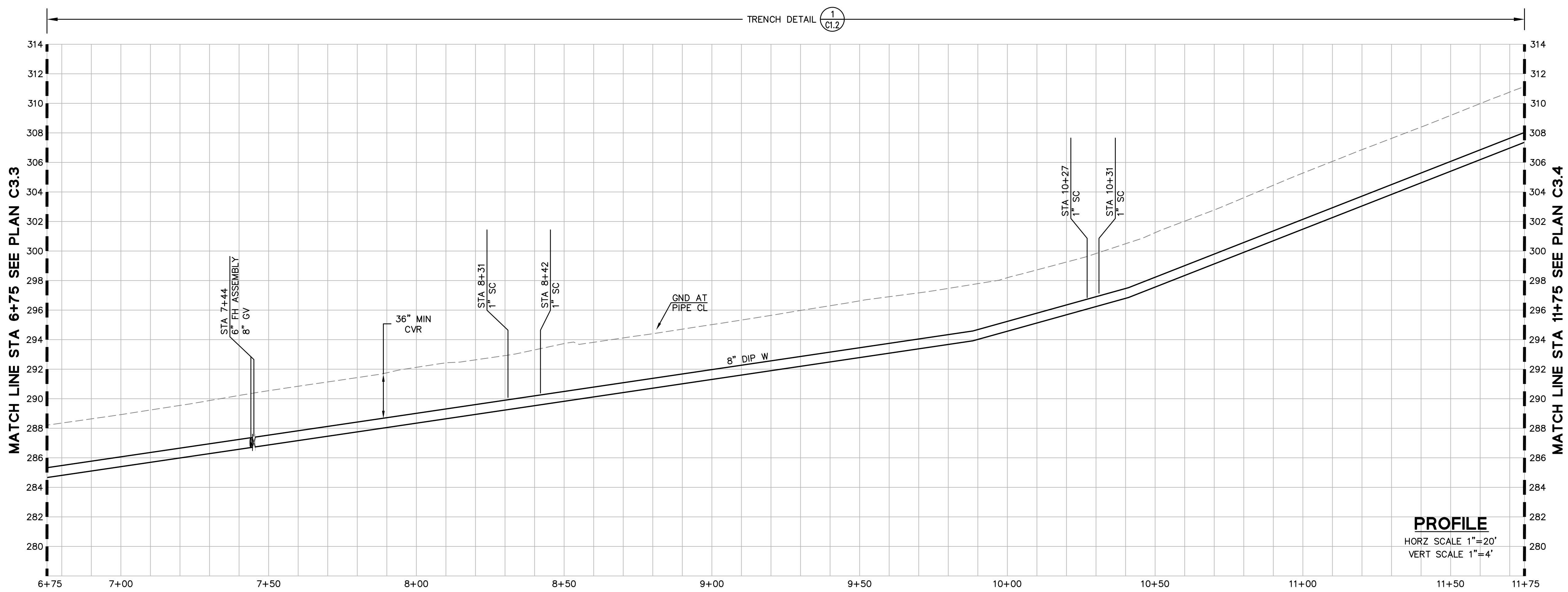
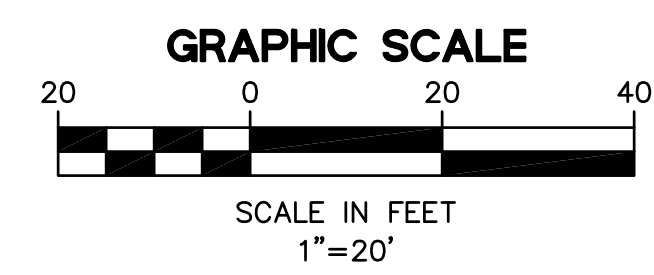
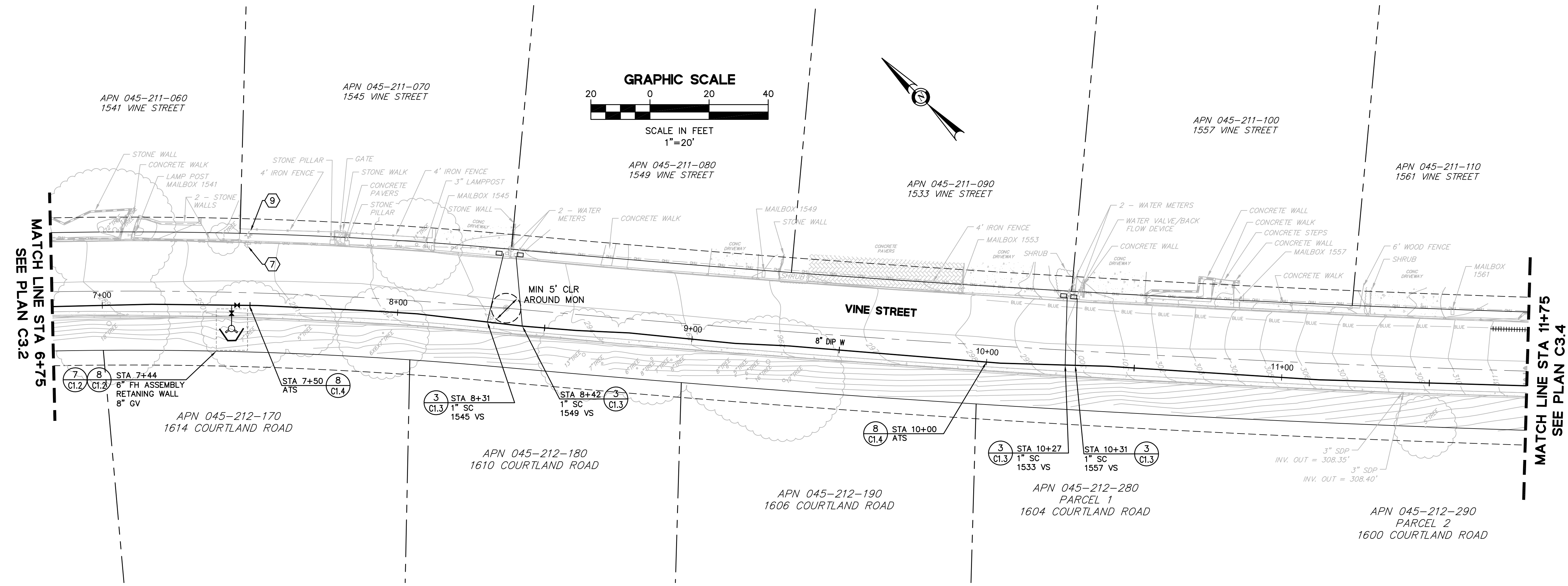


PROFILE
HORZ SCALE 1"=20'
VERT SCALE 1"=4'

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>APPVD</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	BY	DATE	APPVD					
NO.	DESCRIPTION	BY	DATE	APPVD							
<p>PROFESSIONAL ENGINEER JOURBIN PAKPOUR REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. C 59155</p>											
<p>Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Suite 320 Pleasanton, CA 94588 925.224.7717 Fax 925.224.7726 www.pcgengr.com</p>											
<p>DRAWN: VICTOR FUNG</p>	<p>CHECKED: BRANDON LAURIE</p>										
<p>DESIGNED: VICTOR FUNG</p>	<p>APPROVED: JOURBIN PAKPOUR</p>										
<p>MID-PENINSULA WATER DISTRICT HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS VINE ST - PLAN AND PROFILE STA 2+80 TO STA 6+75</p>											
<p>DATE: 09/03/21</p>	<p>SCALE: AS NOTED</p>										
<p>PCG JOB NO. 10012.26</p>											
<p>PLAN C3.2</p>											
<p>SHEET 10 OF 19</p>											

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

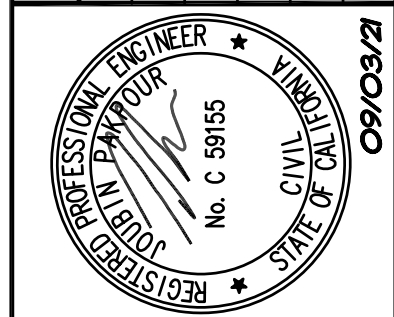
DRAWING NAME: J:\CADD\0012_20\Plan Sheets\Final\Submittal\05-HVDCP\05.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW



PROFILE
HORIZ SCALE 1"=20'
VERT SCALE 1"=4'

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



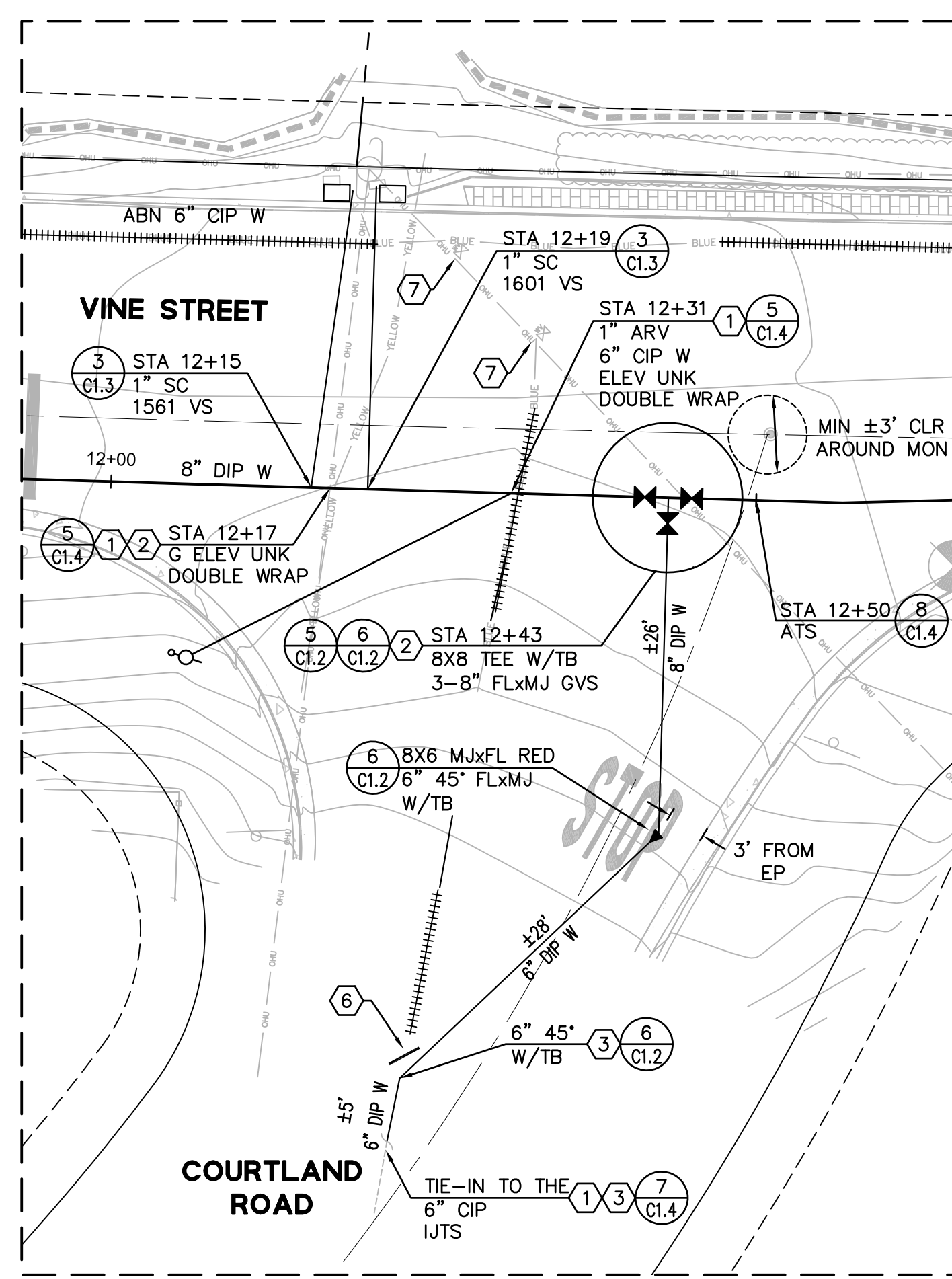
Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOURBIN PAKPOUR

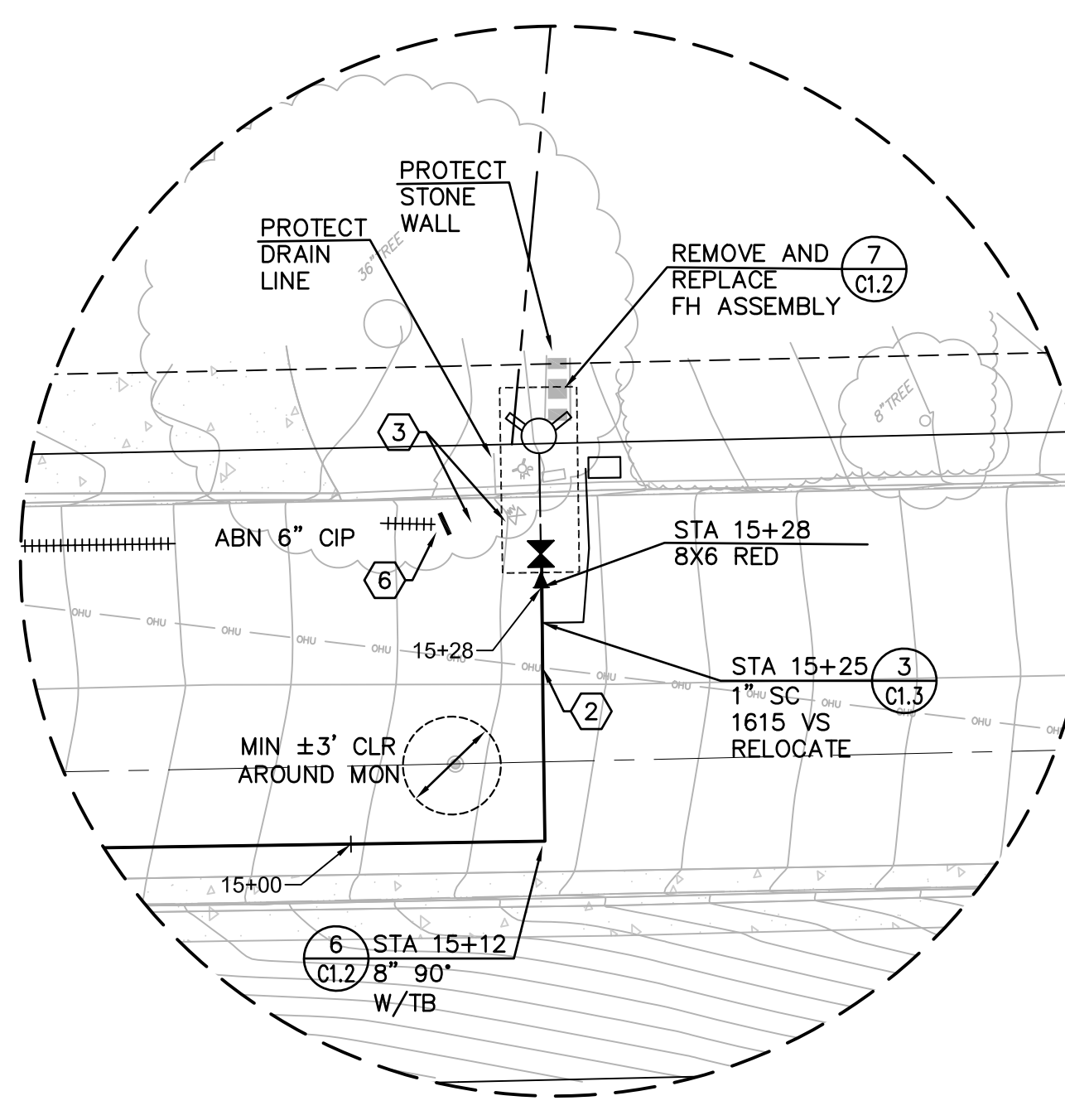
DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

**MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
VINE ST - PLAN AND PROFILE
STA 6+75 TO STA 11+75**

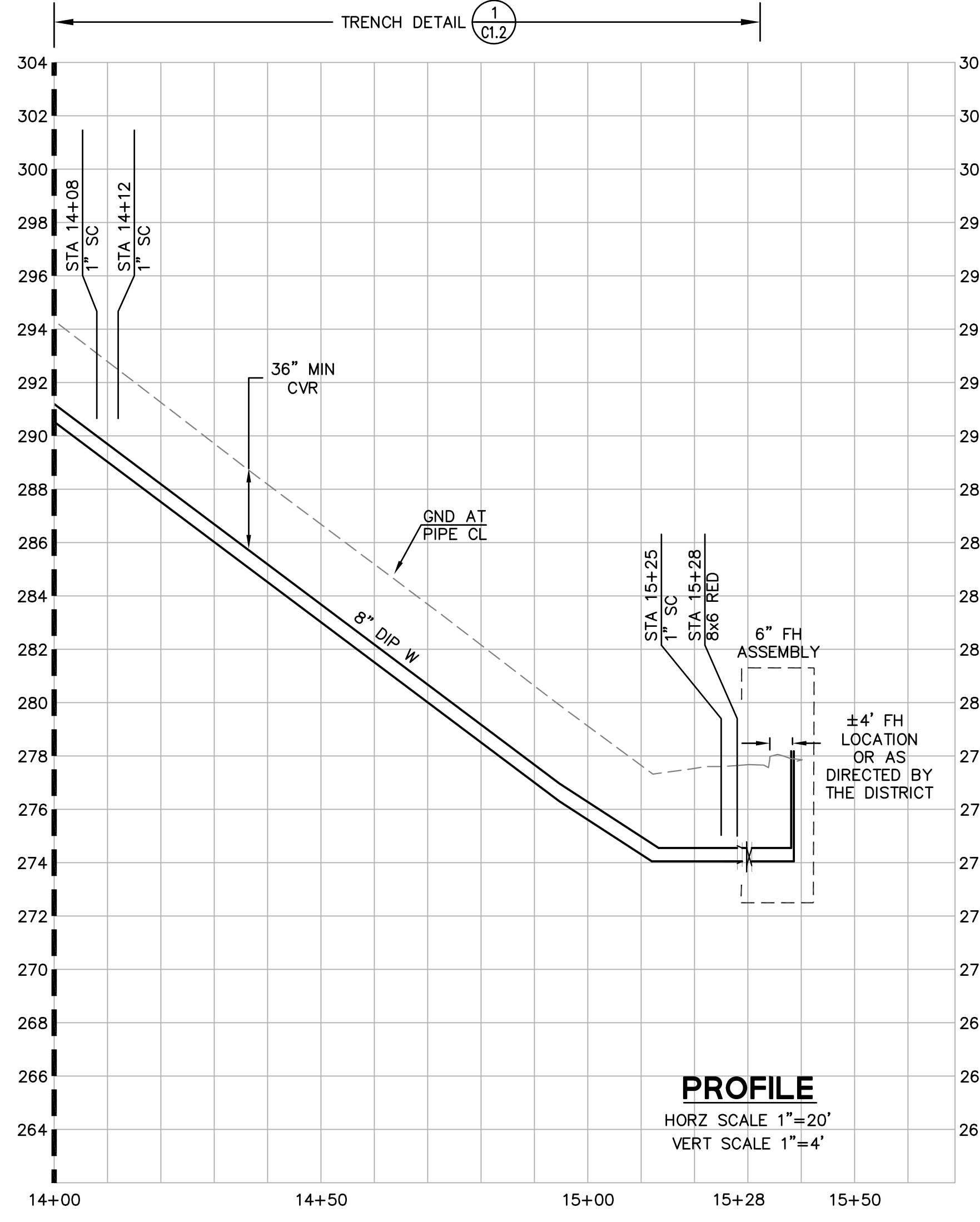
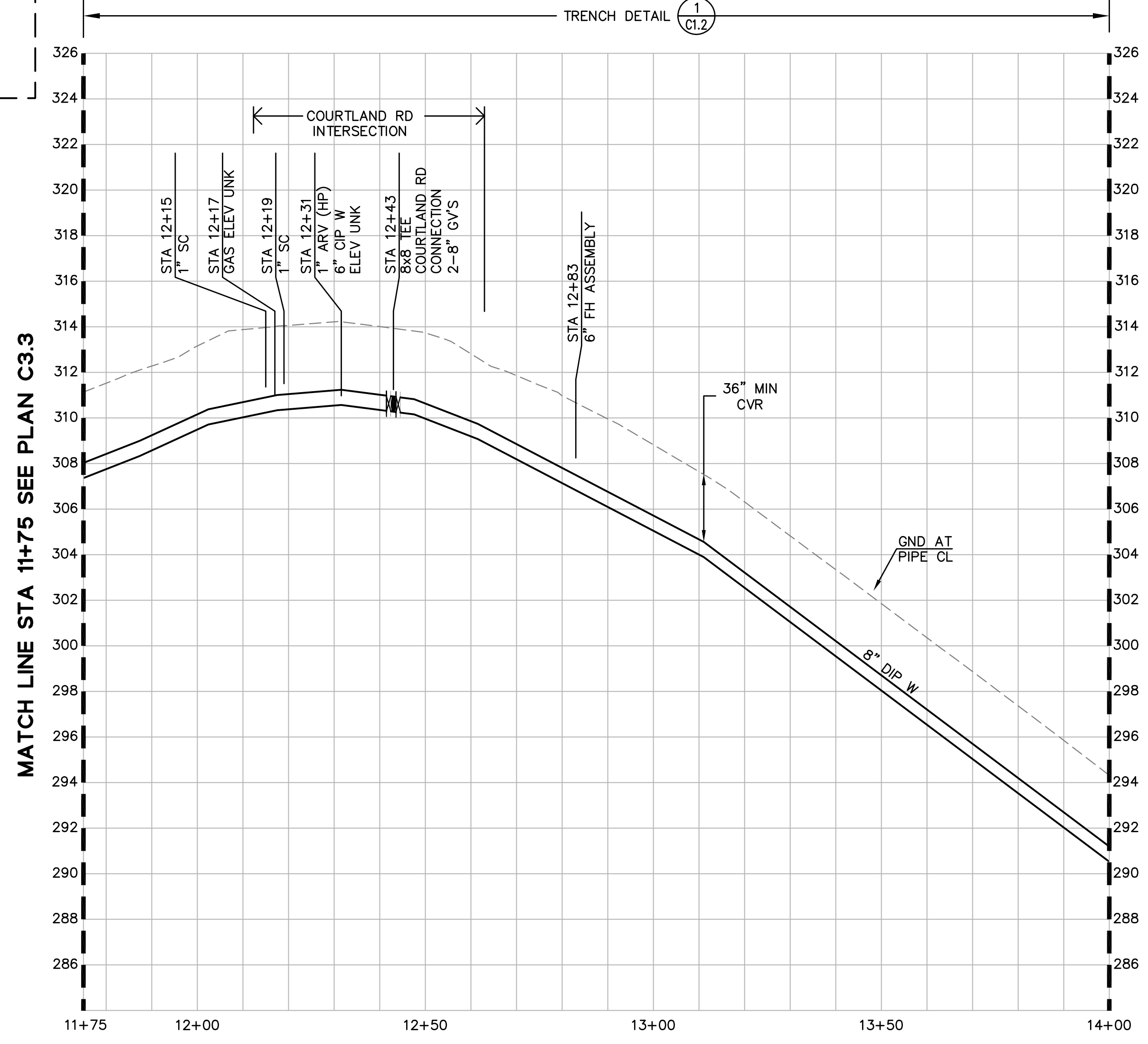
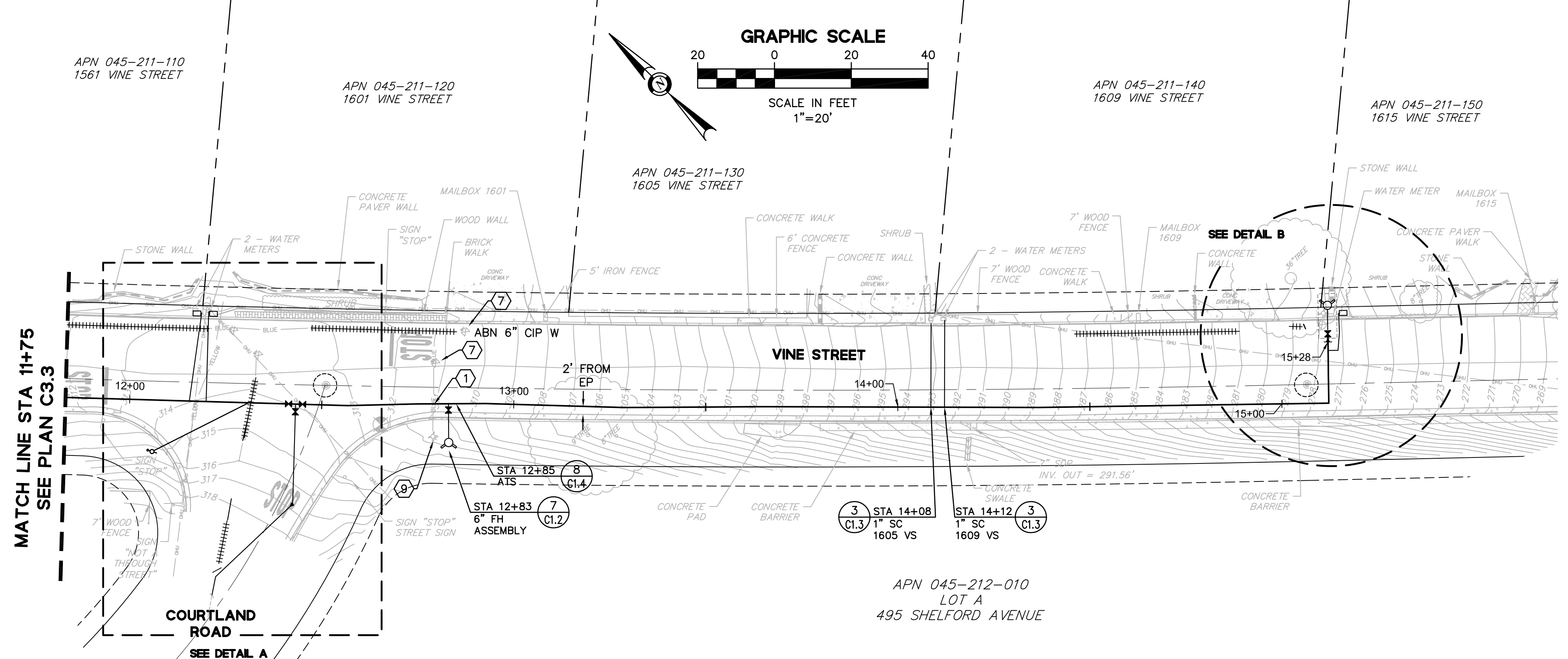
FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES



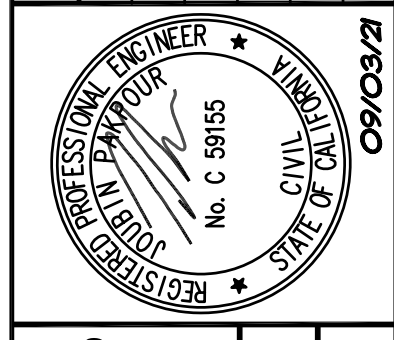
**DETAIL A
COURTLAND ROAD
CONNECTION**
SCALE 1"=10'



**DETAIL B
VINE STREET**
1"=10'



NO.	DESCRIPTION	BY	DATE	APPVD



REVISIONS

09/03/21

Checked: BRANDON LAURIE
Approved: JOURBIN PAKPOUR

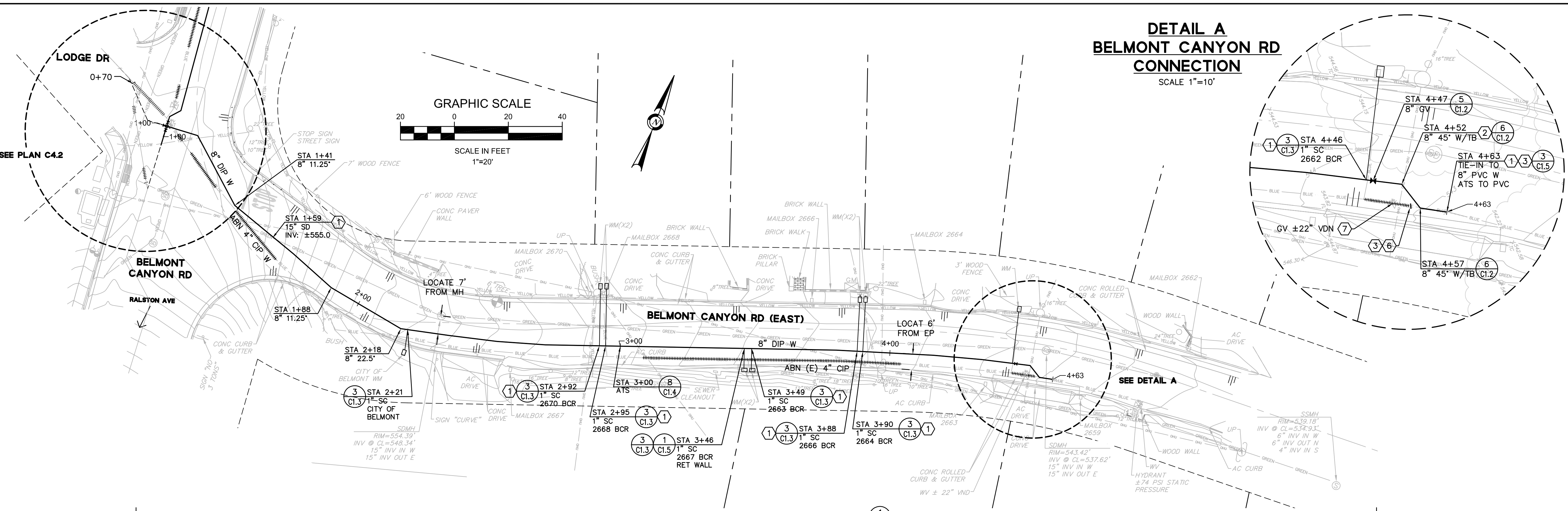
Drawn: VICTOR FUNG
Designed: VICTOR FUNG

Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

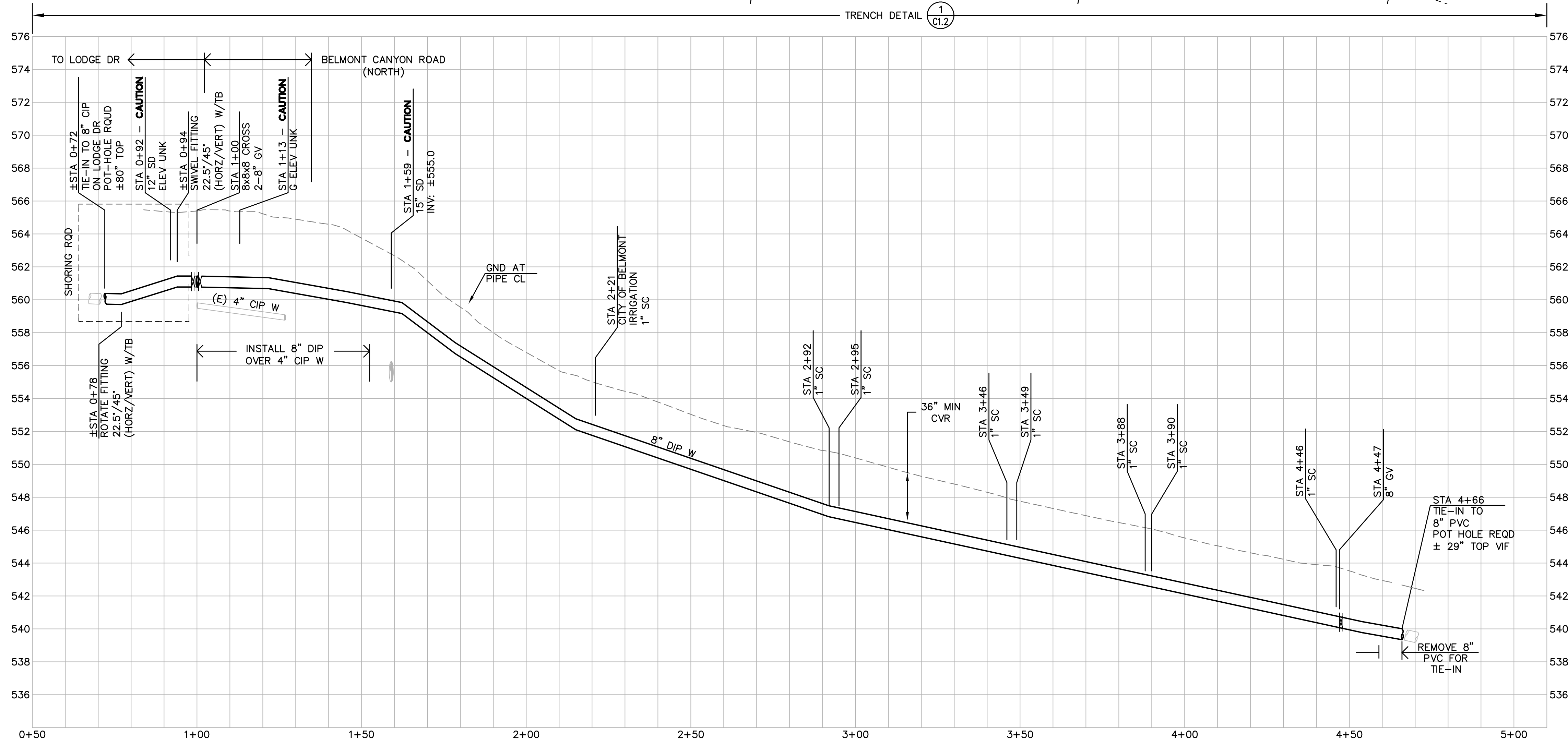
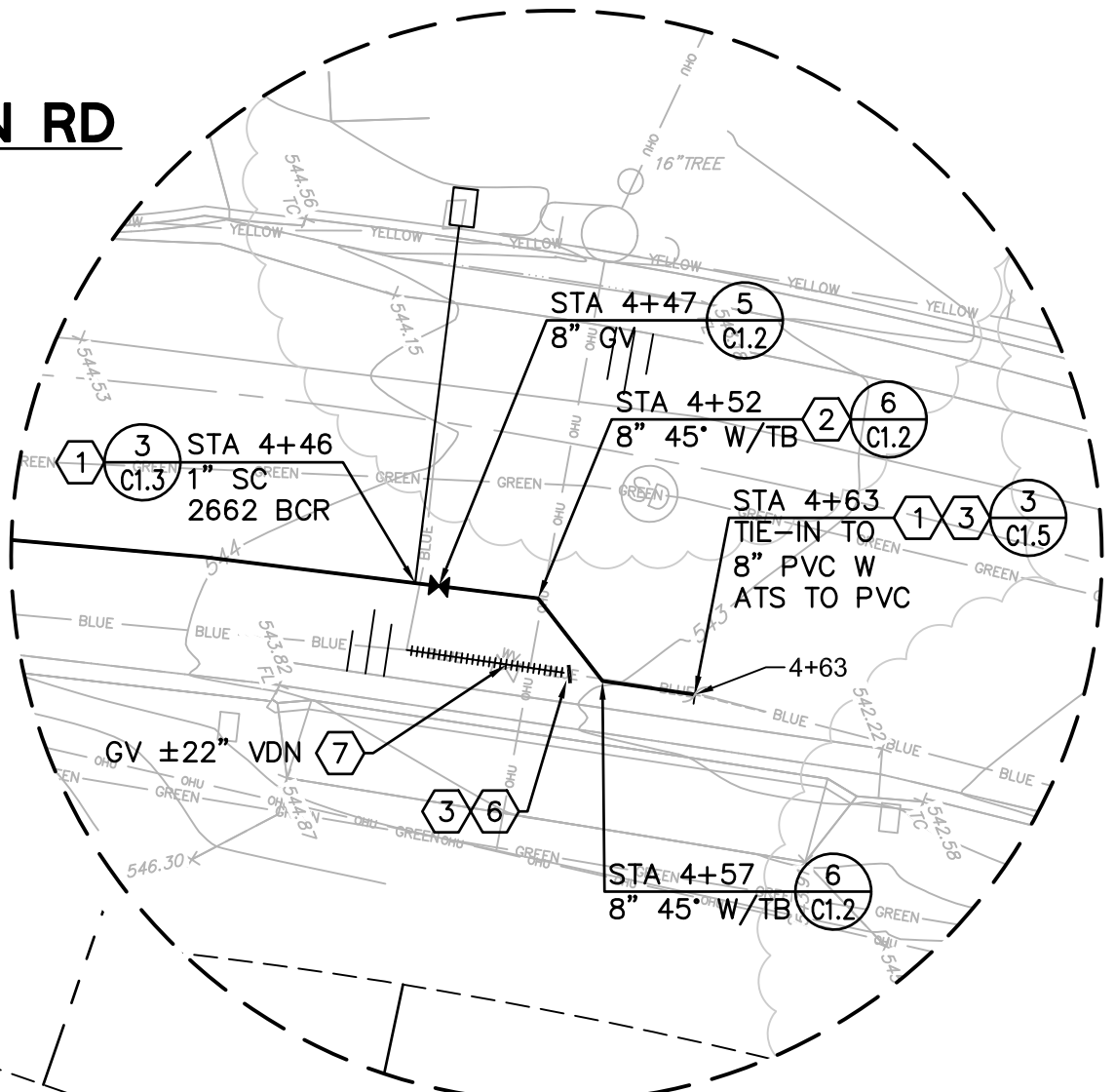
MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
VINE ST - PLAN AND PROFILE
STA 11+75 TO STA 15+28

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26

PLAN **C3.4**
SHEET **12** OF **19**



DETAIL A
BELMONT CANYON RD
CONNECTION
 SCALE 1"=10'



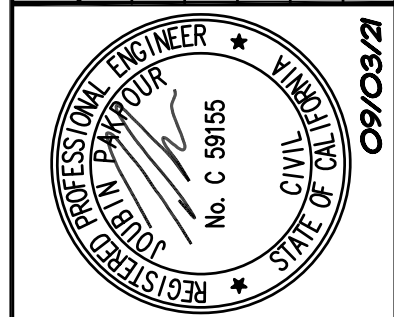
PROFILE
 HORIZ SCALE 1"=20'
 VERT SCALE 1"=4'

FOR REDUCED ENGLISH PLANS
 ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CAD\01012_20\Plan Sheets\Final\Submittal\04-HVDR\PLAN\TOWN.dwg
 PLOT DATE: 09/03/21, PLOTTED BY: VFW

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



PAKPOUR CONSULTING GROUP, INC.
 5776 Stoneridge Mall Road, Suite 320
 Pleasanton, CA 94588
 925.224.7717 Fax 925.224.7726
 www.pcgengr.com

CHECKED: BRANDON LAURIE
 DRAWN: VICTOR FUNG
 DESIGNED: VICTOR FUNG
 APPROVED: JOUBIN PAKPOUR

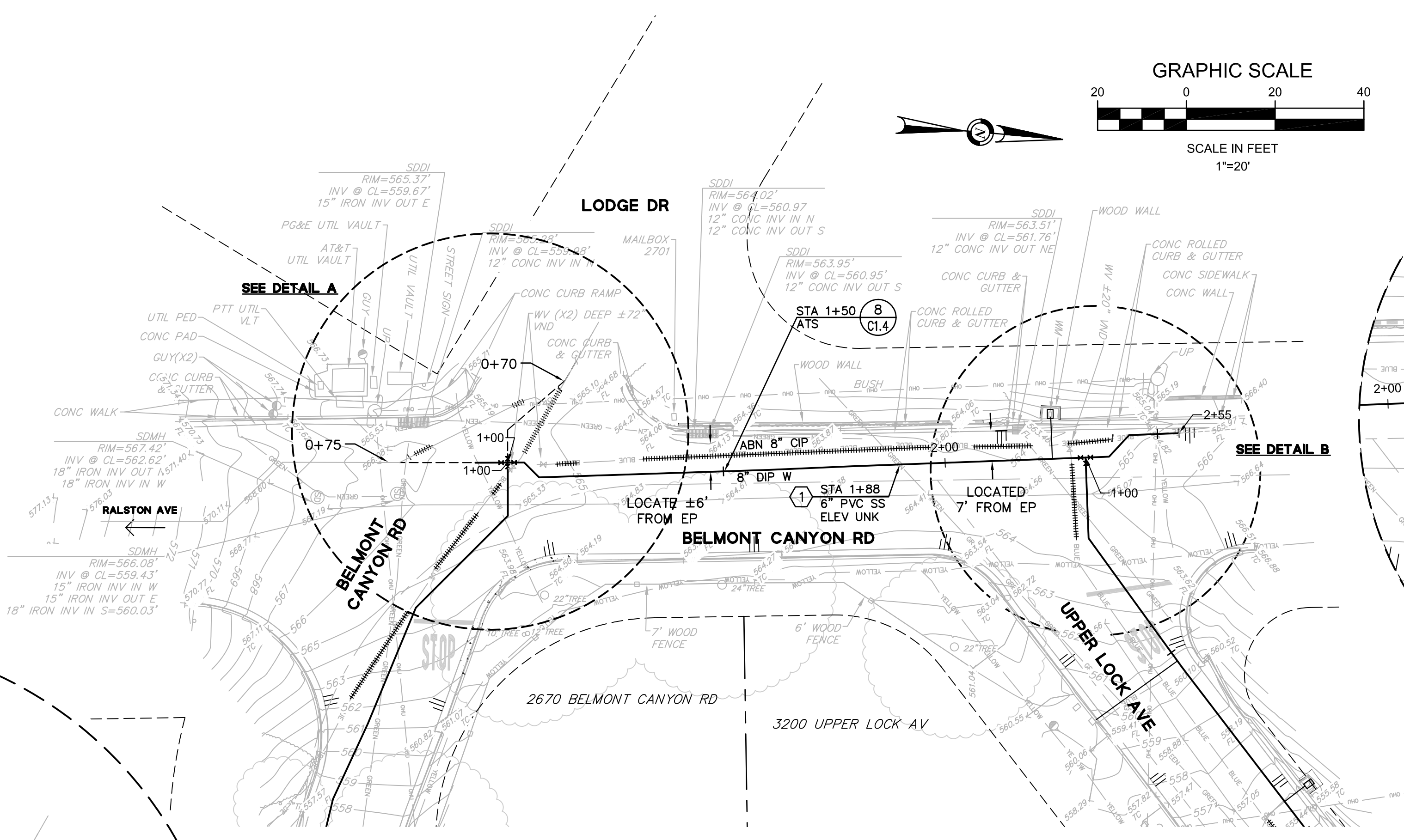
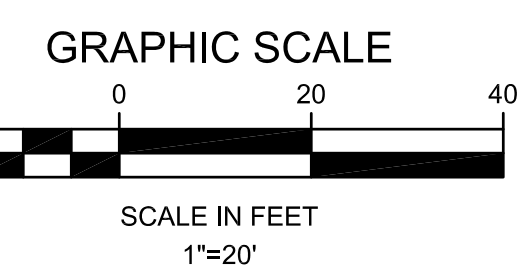
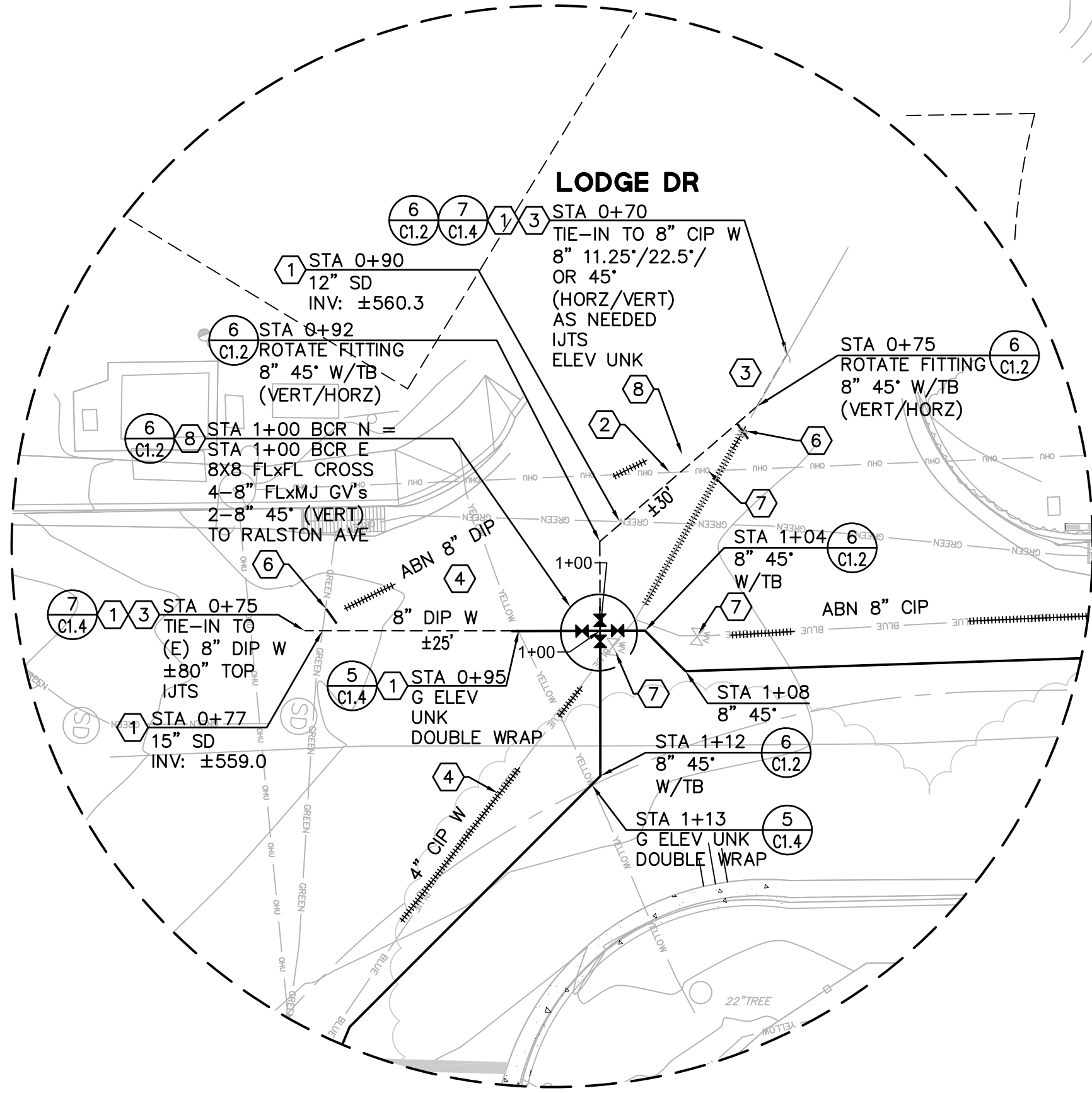
MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
BELMONT CANYON RD - PLAN AND PROFILE
STA 0+70 TO STA 4+63

DATE	09/03/21	SCALE	AS NOTED
PCG JOB NO.	10012.26	PLAN	C4.1
SHEET	13	OF	19

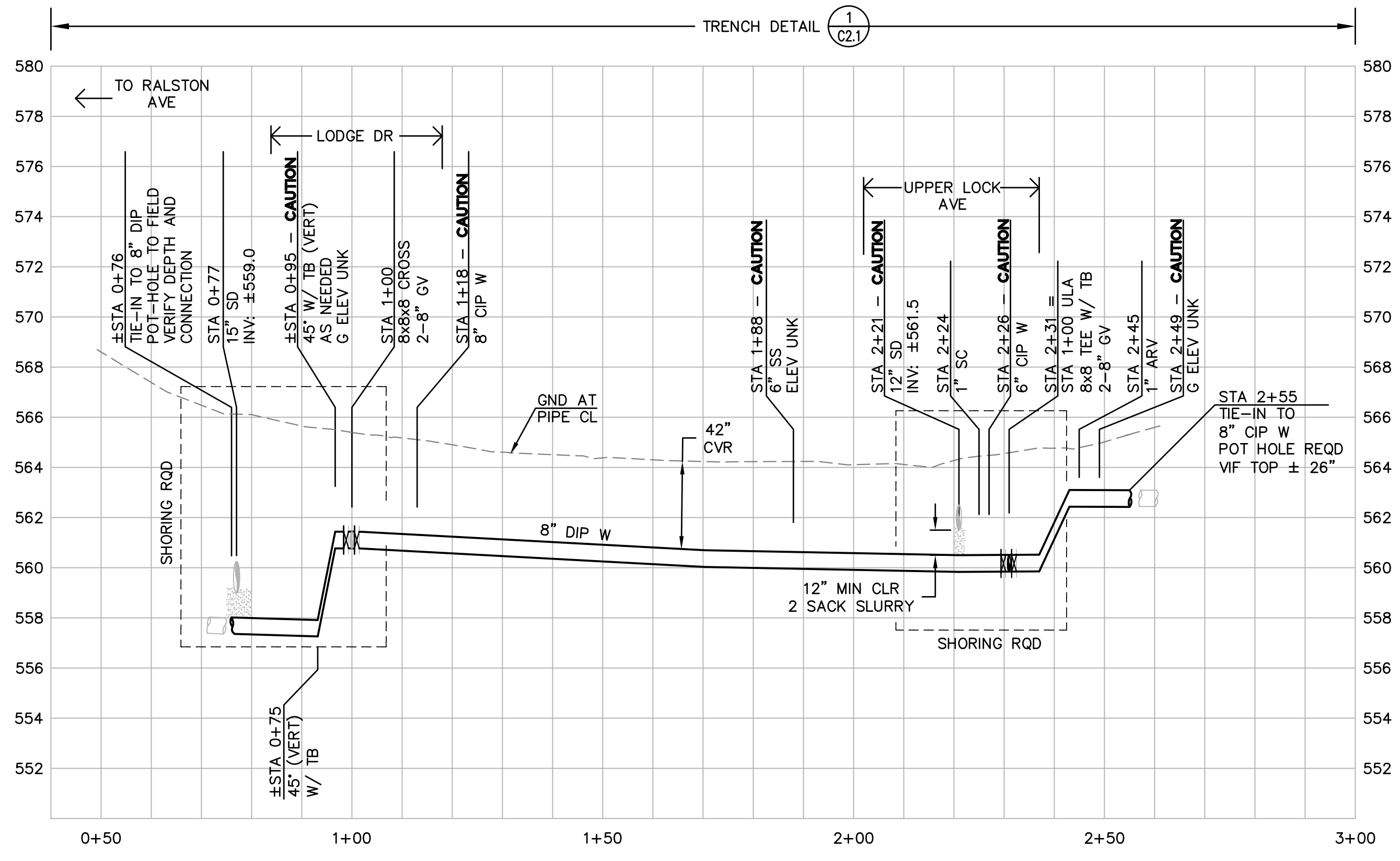
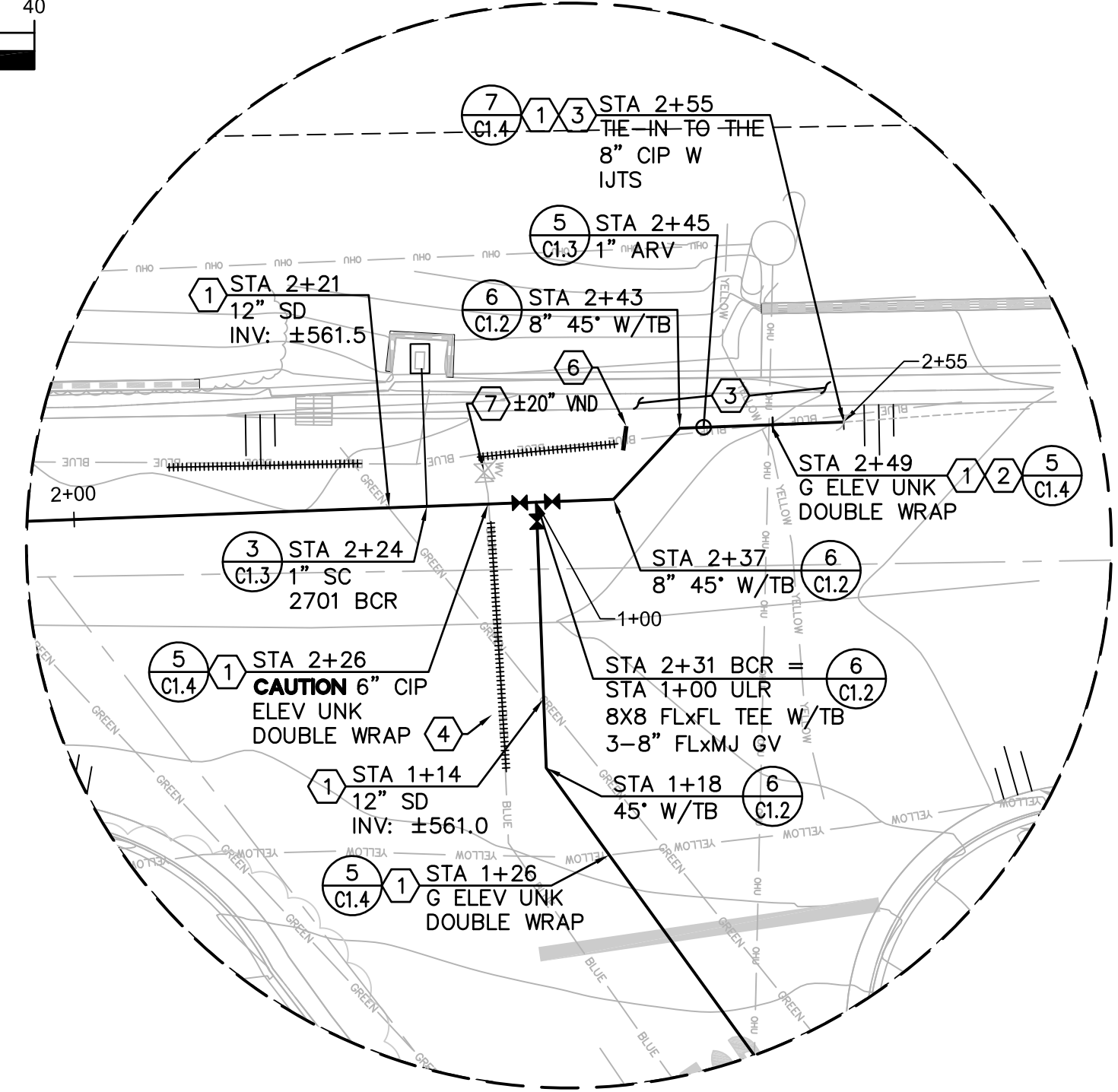
FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\012.26\Plan Sheets\Final\Submittal\09-HV09PBLMNTCON.dwg
PLOT DATE: 09/09/21, PLOTTED BY: VFW

**DETAIL A
BELMONT CANYON RD
AND LODGE DR
CONNECTION**
SCALE 1"=10'



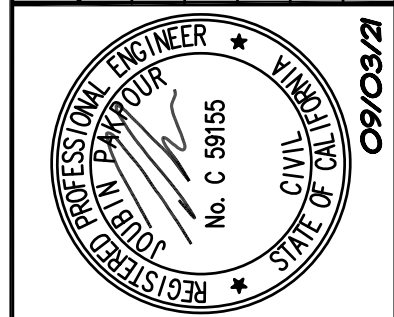
**DETAIL B
BELMONT CANYON RD NORTH
CONNECTION**
SCALE 1"=10'



PROFILE
HORZ SCALE 1"=20'
VERT SCALE 1"=4'

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

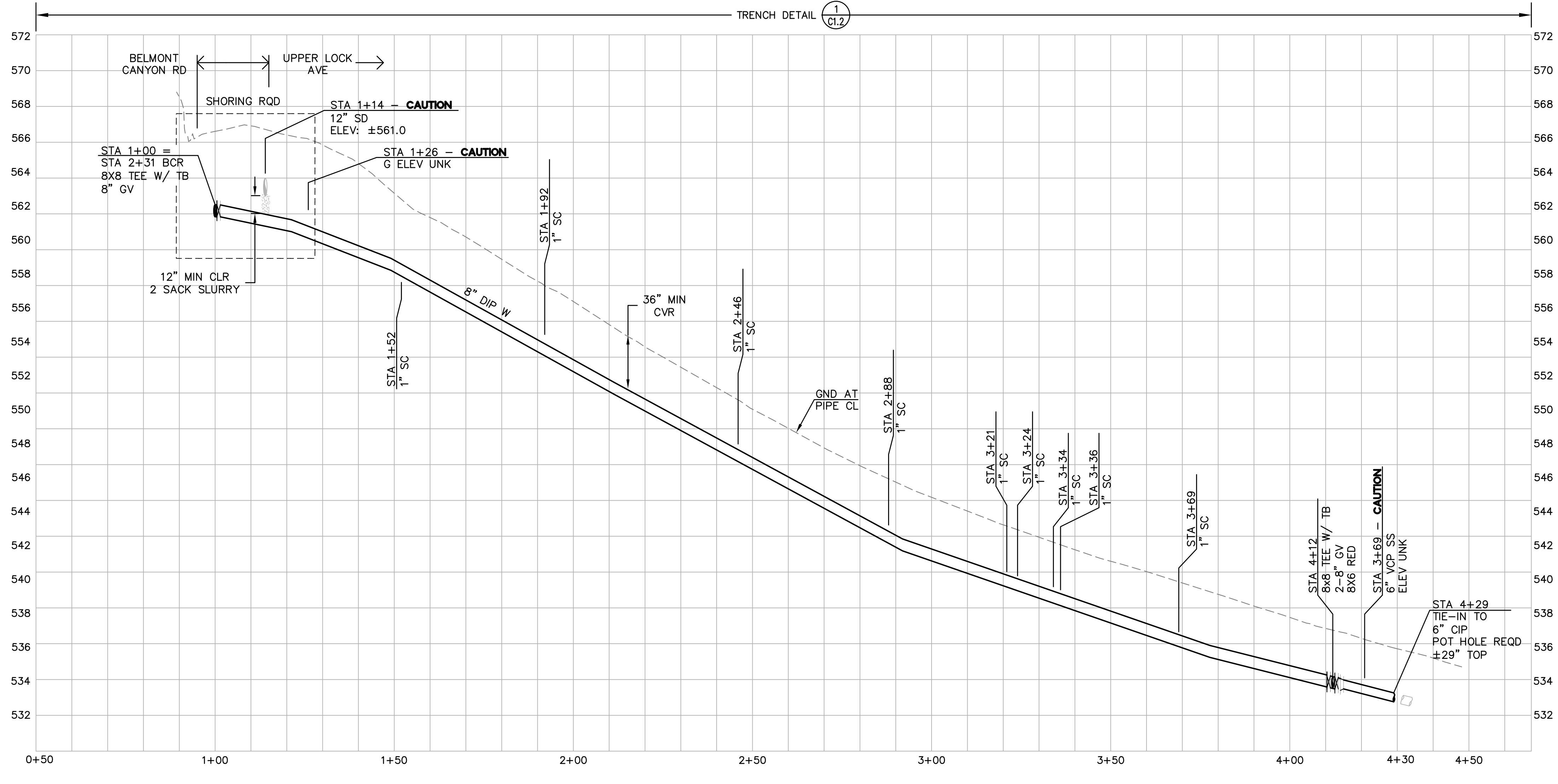
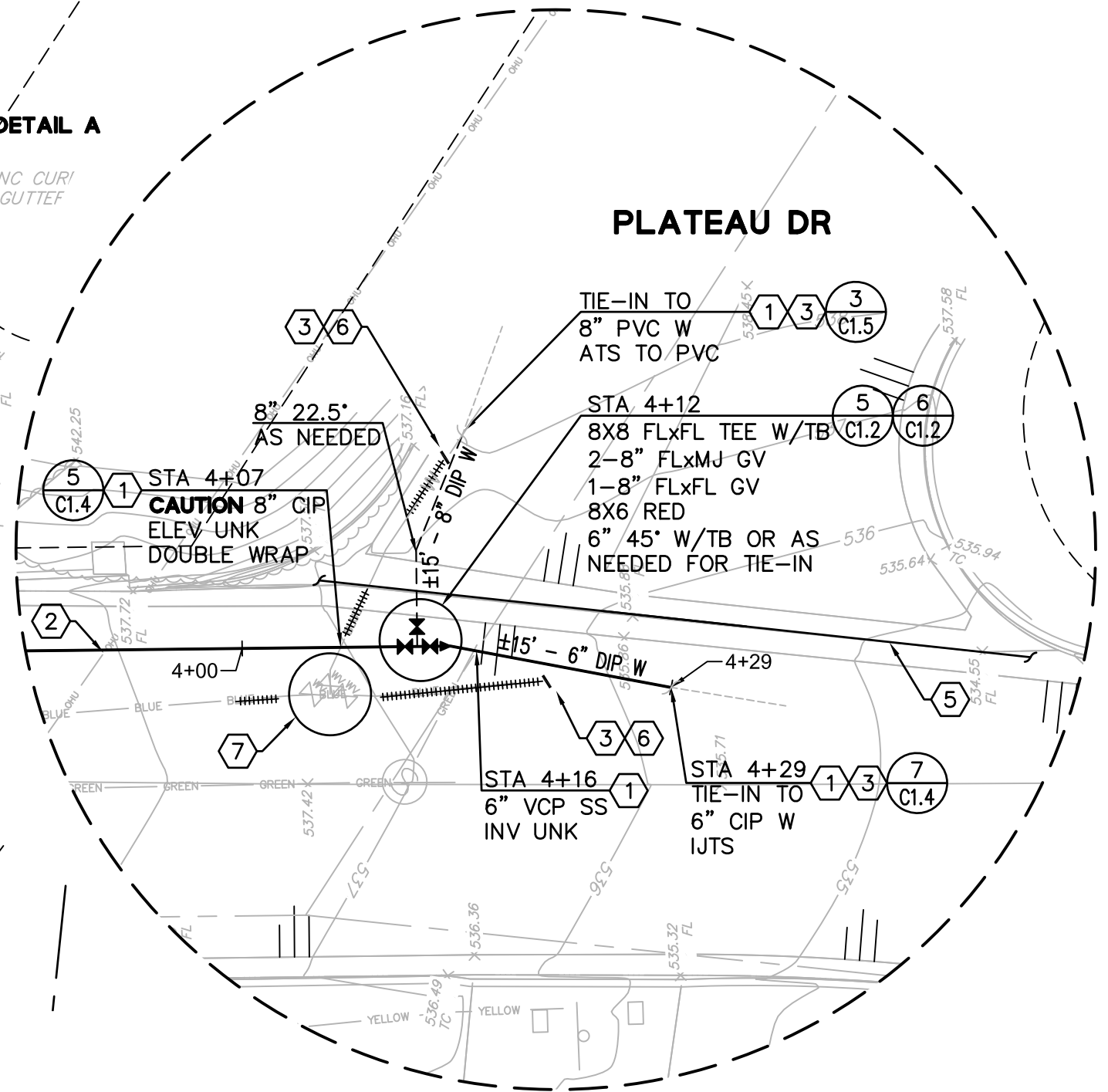
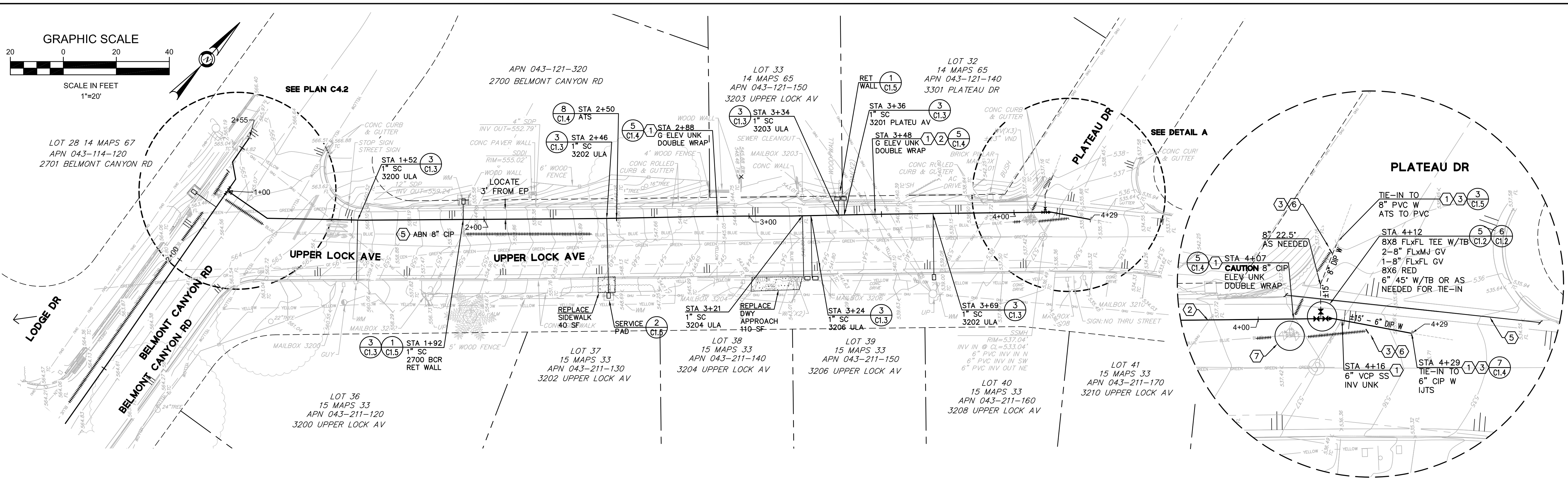
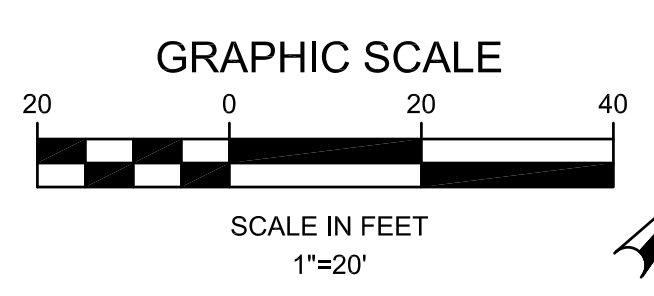
CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKPOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

09/03/21

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS
BELMONT CANYON RD - PLAN AND PROFILE
STA 0+75 TO STA 2+55

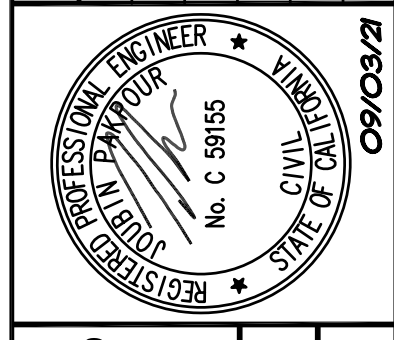
DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO.: 10012.26
PLAN: **C4.2**
SHEET: **14 OF 19**



DETAIL A
UPPER LOCK AVE
PLATEAU DR
CONNECTION
 SCALE 1"=10'

PROFILE
 HORZ SCALE 1"=20'
 VERT SCALE 1"=4'

NO.	DESCRIPTION	BY	DATE	APPROV



Pakpour Consulting Group, Inc.
 5776 Stoneridge Mall Road, Suite 320
 Pleasanton, CA 94588
 925.224.7717 Fax 925.224.7726
 www.pcgengr.com

CHECKED: BRANDON LAURIE
 APPROVED: VICTOR FUNG
 DESIGNED: VICTOR FUNG
 DRAWN: VICTOR FUNG

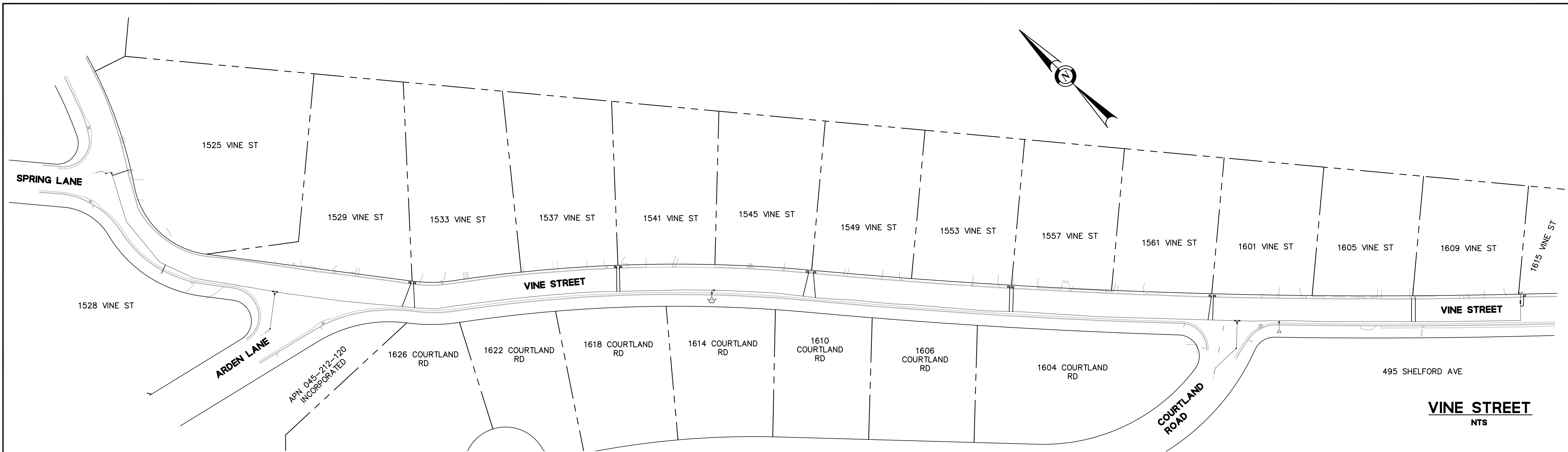
MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS
BELMONT CANYON RD - PLAN AND PROFILE
 STA 1+00 TO STA 4+29

DATE: 09/03/21 SCALE: AS NOTED
 PCG JOB NO.: 10012.26
 PLAN: **C4.3**
 SHEET: **15 OF 19**

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
 DRAWING NAME: J:\CADD\012121\Plan Sheets\Final\Submittal\09-HV09PLAN\PLAN\PLAN.C4.3.dwg
 PLOT DATE: 09/03/21 PLOTTED BY: VFW

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\091226\Plan Sheets\Final\Submittal\07 HYDRANTS\0701.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW



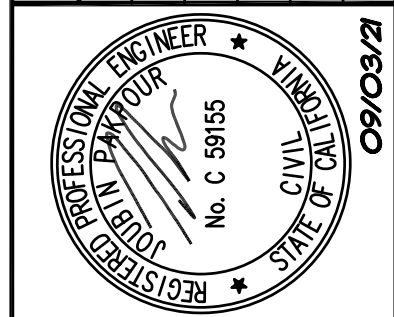
VINE STREET WATER SERVICE SCHEDULE

	STREET NAME	ADDRESS	SRV SIZE	METER SIZE	NOTES - SEE APPENDIX IN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION
1	VINE STREET	1525	1"	1"	REUSE AND RESET THE (E) BOX; SET BOX CLOSER TO CURB
2	VINE STREET	1528	1"	5/8"	TRIM JUNIPERS AWAY FROM THE BOX; SET BOX CLOSER TO CURB
3	VINE STREET	1529	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH THE ADJACENT SERVICE
4	VINE STREET	1533	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH THE ADJACENT SERVICE
5	VINE STREET	1537	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH THE ADJACENT SERVICE
6	VINE STREET	1541	1"	1"	SET BOX PARALLEL TO THE CURB; ALIGN WITH THE ADJACENT SERVICE
7	VINE STREET	1545	1"	5/8"	REMOVE AND REPLACE THE PEBBLE CONCRETE AROUND THE BOX; SET BOX PARALLEL TO THE CURB; ALIGN WITH THE ADJACENT SERVICE
8	VINE STREET	1549	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
9	VINE STREET	1553	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
10	VINE STREET	1557	1"	1"	SAW-CUT CONCRETE DWY TO REMOVE BOX; SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE; REPLACE CONCRETE
11	VINE STREET	1561	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
12	VINE STREET	1601	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
13	VINE STREET	1605	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
14	VINE STREET	1609	1"	5/8"	SET BOX PARALLEL TO THE CURB; ALIGN WITH ADJACENT SERVICE
15	VINE STREET	1615	1"	5/8"	RELOCATE SERVICE WEST OF THE NEW HYDRANT; SET BOX PARALLEL TO THE CURB

TOTAL SERVICES - 15

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKFOUR

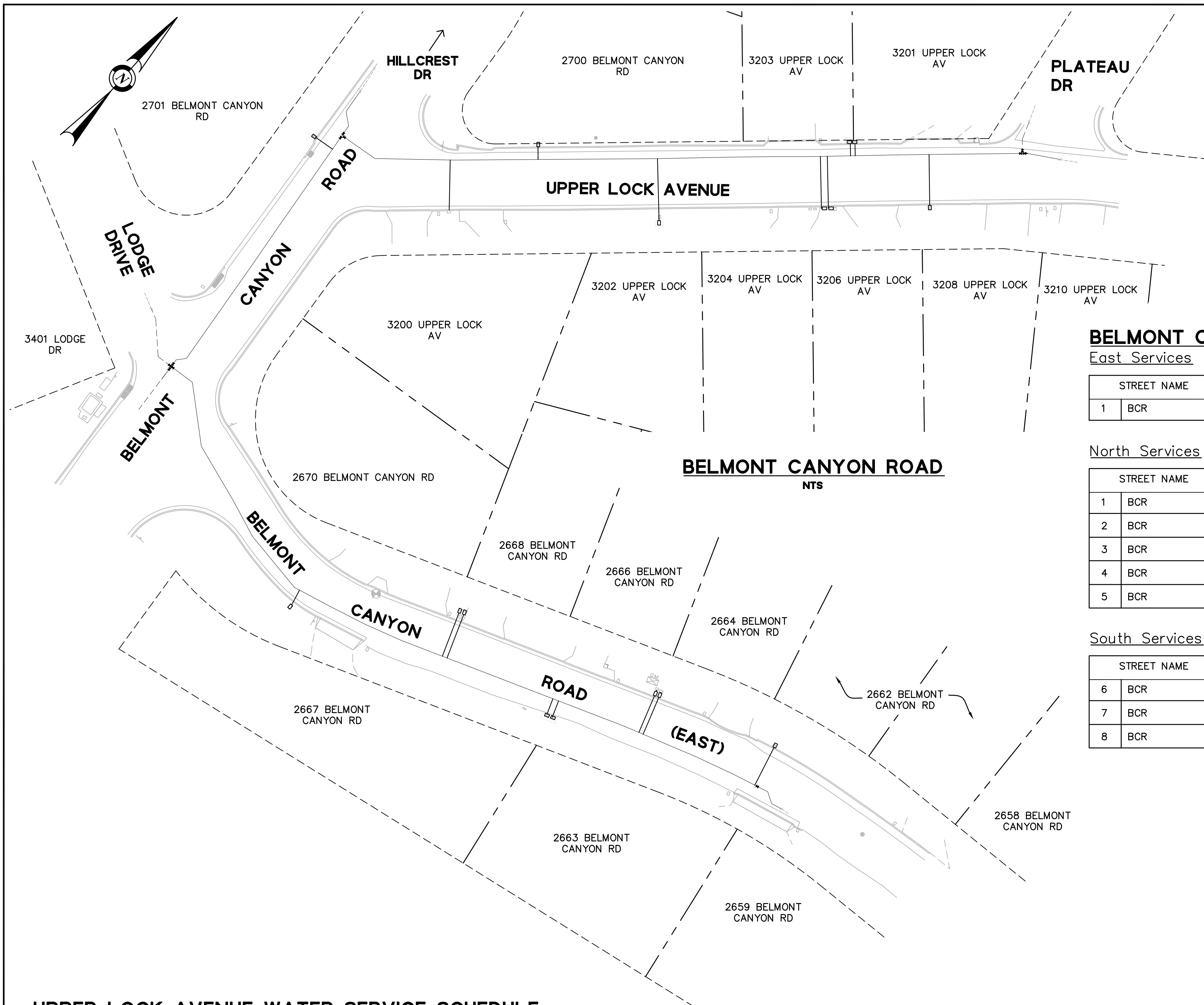
DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT CANYON RD WATER MAIN IMPROVEMENTS
VINE STREET WATER SERVICE SCHEDULE

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO. 10012.26
PLAN **C5.1**
SHEET **16** OF **19**

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\01012_20\Plan Sheets\Final\Submittal\07 HYDRO\WSS01.dwg
PLOT DATE: 09/03/21 PLOTTED BY: VFW



BELMONT CANYON ROAD WATER SERVICE SCHEDULE

East Services

STREET NAME	ADDRESS	SRV SIZE	METER SIZE	CONNECTION NOTES
1	BCR	2701	1" 5/8"	SET BOX PERPENDICULAR TO THE CURB; PAINT (TREAT) THE (E) RETAINING WALL

North Services

STREET NAME	ADDRESS	SRV SIZE	METER SIZE	CONNECTION NOTES
1	BCR	2670	1" 5/8"	REMOVE AND SALVAGE THE SLATE ROCK BORDER TO REMOVE BOX; SET BOXES; RESET SLATE
2	BCR	2668	1" 5/8"	ROCK; HAND DIG AROUND THE (E) GAS SERVICE LINES
3	BCR	2666	1" 5/8"	REMOVE WOOD HEADER; SET BOX PERPENDICULAR AND CLOSER TO THE CURB; RESET WOOD
4	BCR	2664	1" 5/8"	HEADER
5	BCR	2662	1" 5/8"	METER BOX NEXT TO ORNAMENTAL ROCK. SET BOX PERPENDICULAR TO THE CURB.

South Services

STREET NAME	ADDRESS	SRV SIZE	METER SIZE	CONNECTION NOTES
6	BCR	CITY IRRG	1" 5/8"	SET BOX PERPENDICULAR TO THE CURB
7	BCR	2667	1" 5/8"	SET BOXES PARALLEL TO THE CURB;
8	BCR	2663	1" 5/8"	INSTALL WOOD RETAINING WALL FOR SERVICES

TOTAL SERVICES – 17

UPPER LOCK AVENUE WATER SERVICE SCHEDULE

North Services

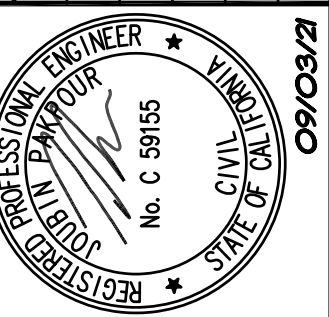
STREET NAME	ADDRESS	SRV SIZE	METER SIZE	CONNECTION NOTES
1	BCR	2700	1" 5/8"	SET BOX PERPENDICULAR TO THE CURB; REPLACE RETAINING WALL
2	ULA	3203	1" 5/8"	SET BOXES PERPENDICULAR TO THE CURB; REPLACE THE RETAINING WALL FOR THE TWO
3	PLATEAU DR	3301	1" 5/8"	SERVICES

South Services

STREET NAME	ADDRESS	SRV SIZE	METER SIZE	CONNECTION NOTES
4	ULA	3200	1" 5/8"	SET BOX PERPENDICULAR TO THE CURB
5	ULA	3202	1" 5/8"	SAW-CUT CONC SIDEWALK TO REMOVE BOX; SET BOX BEHIND SIDEWALK; REPLACE CONC PANEL
6	ULA	3204	1" 5/8"	SAW-CUT CONC DRIVEWAY APPROACH TO REMOVE BOXES; <u>RELOCATE</u> BOXES PARALLEL OUTSIDE
7	ULA	3206	1" 5/8"	THE DRIVEWAY; REPLACE THE CONCRETE DRIVEWAY APPROACH
8	ULA	3208	1" 5/8"	SET BOX PERPENDICULAR TO THE CURB

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKFOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

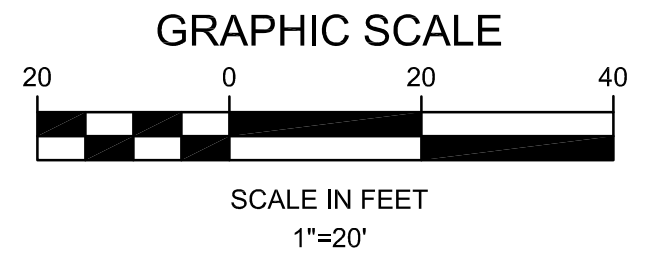
**MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
BELMONT CANYON ROAD WATER SERVICE SCHEDULE**

DATE: 09/03/21 SCALE: AS NOTED
PCG JOB NO. 10012.26
PLAN **C5.2**
SHEET **17** OF **19**

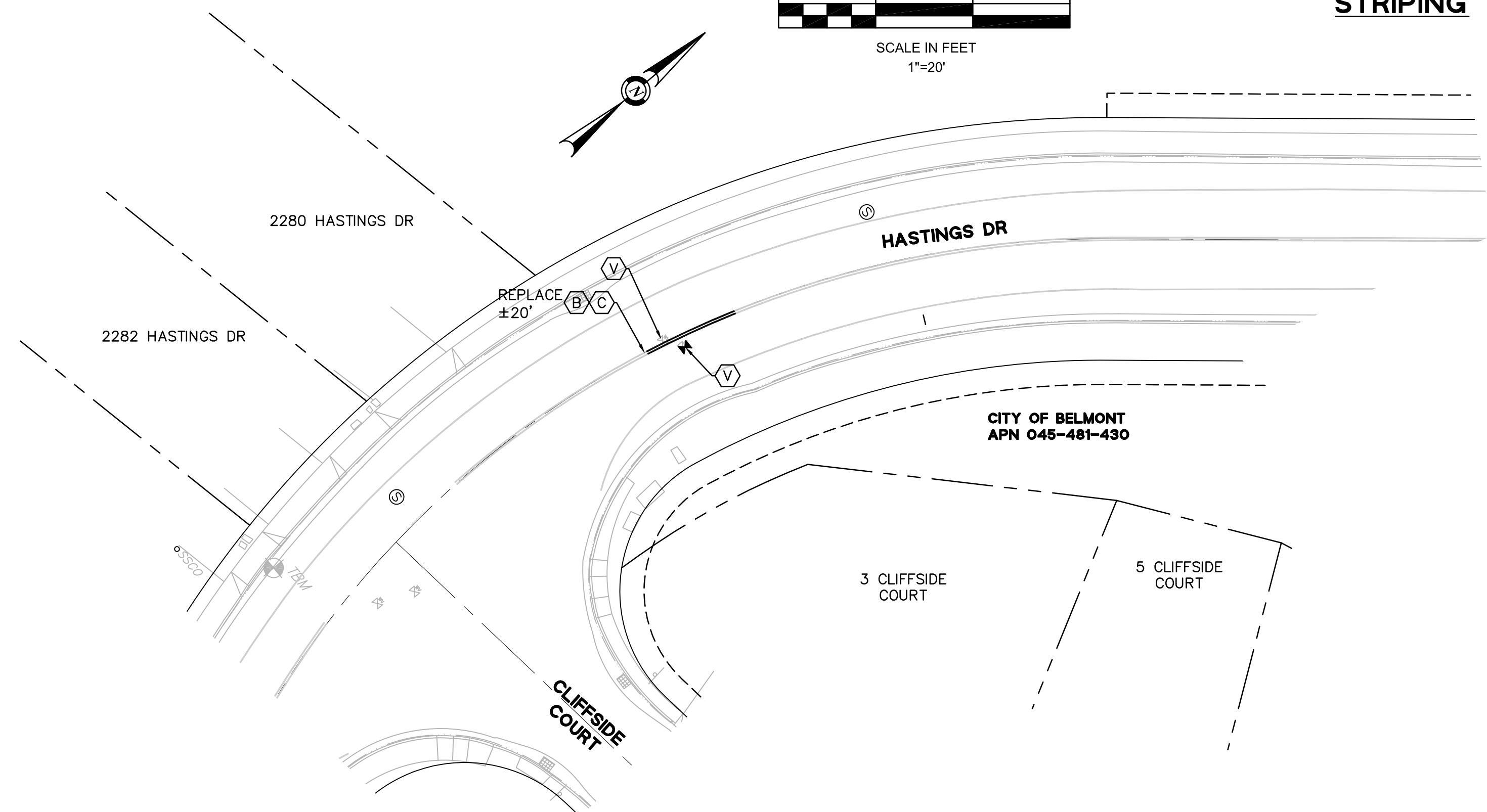
FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\01012\09\03\HASTINGS DR STRIPING AND SLURRY SEAL.dwg
PLOT DATE: 09/03/21, PLOTTED BY: VFW

3
2
1
0



HASTINGS DR STRIPING



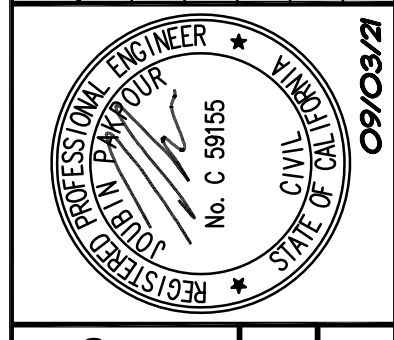
CONSTRUCTION LEGEND

- (A) SLURRY SEAL LIMITS.
- (B) GRIND ROADWAY MARKINGS AND INSTALL TEMPORARY ROADWAY PAVEMENT MARKERS AS REQUIRED.
- (C) THERMOPLASTIC CENTER STRIPING – CSD A20A – DETAIL 22 – DOUBLE YELLOW WITH TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- (D) INSTALL NEW THERMOPLASTIC STOP MARKING AND BAR
- (F) PROTECT INLETS STRUCTURE FROM THE SLURRY SEAL
- (G) PROTECT MONUMENTS
- (H) PROTECT MANHOLE STRUCTURES
- (V) PROTECT VALVE(S)
- [Hatched Box] TYPE II SLURRY SEAL

VINE STREET – ± 41,000 SF

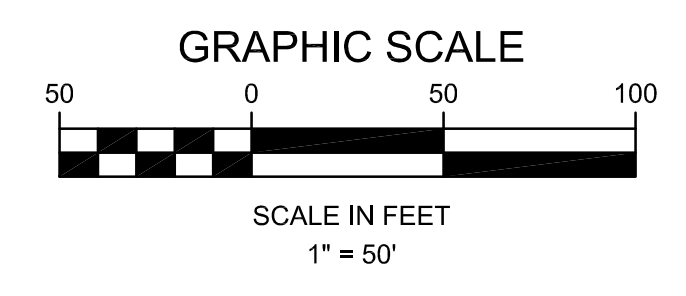
REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD

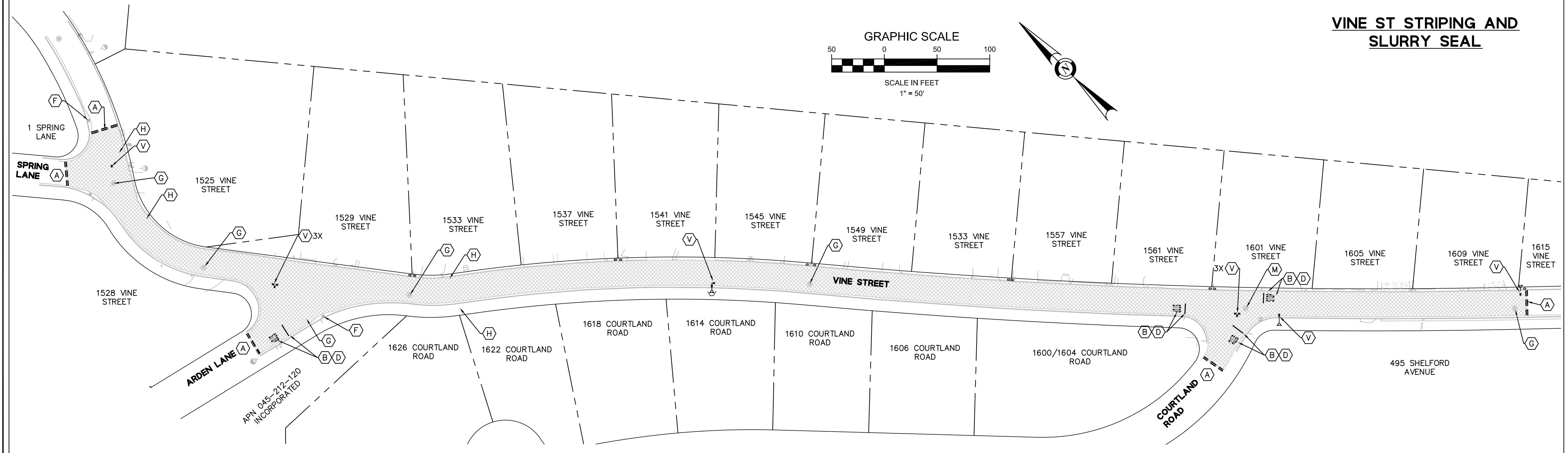


Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
DESIGNED: VICTOR FUNG
APPROVED: VICTOR FUNG
DRAWN: VICTOR FUNG



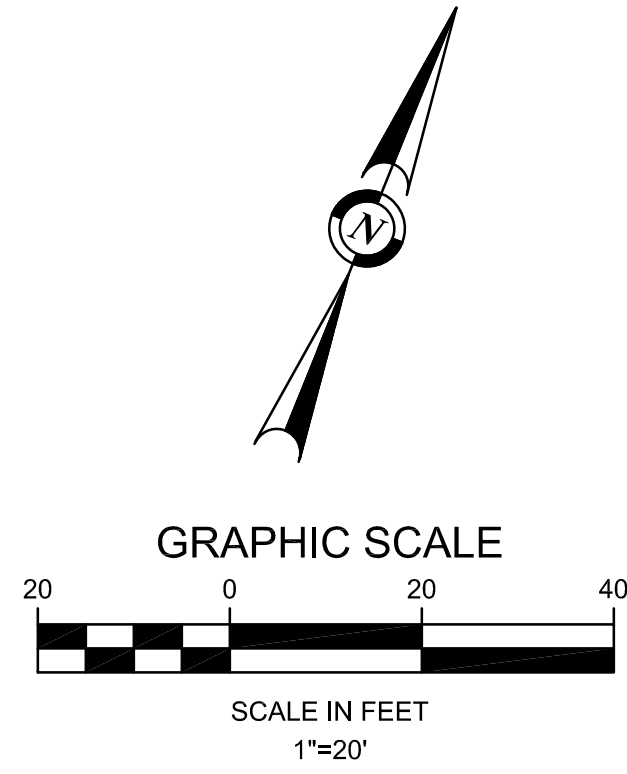
VINE ST STRIPING AND SLURRY SEAL



**MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
HASTINGS DR AND VINE ST STRIPING AND SLURRY SEAL PLAN**

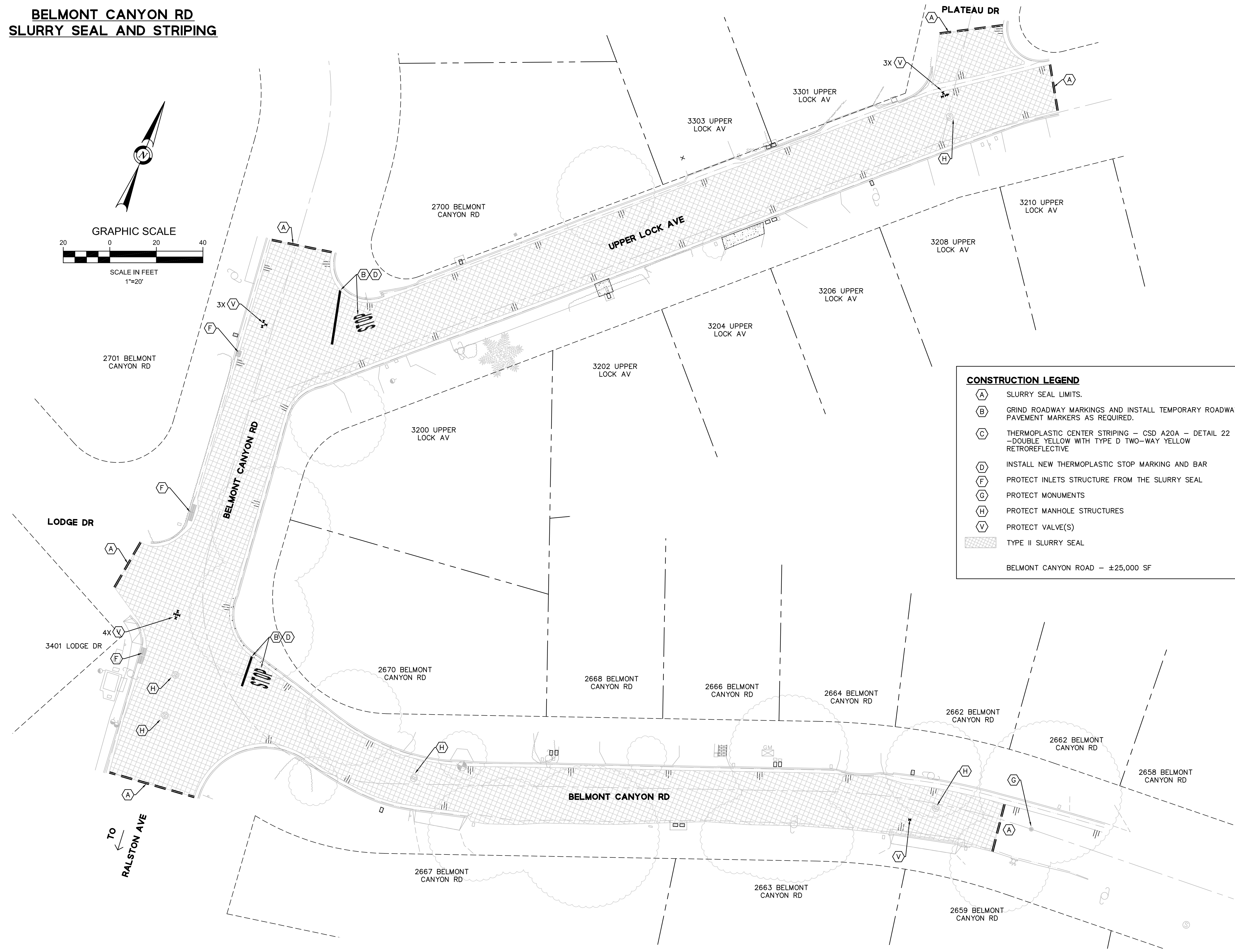
DATE: 09/03/21	SCALE: AS NOTED
PCG JOB NO. 10012.26	
PLAN C6.1	
SHEET 18 OF 19	

**BELMONT CANYON RD
SLURRY SEAL AND STRIPING**



FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

DRAWING NAME: J:\CADD\0312\0312\Sheet\Final\Submittal\03-PROCESSTR-BELMONTCANYON.dwg
PLOT DATE: 09/09/21 PLOTTED BY: VFW



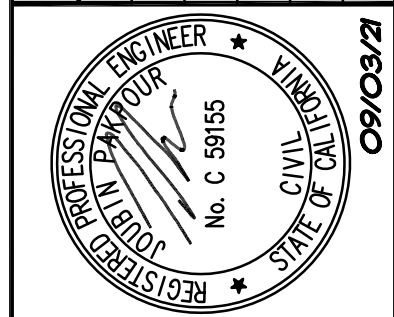
CONSTRUCTION LEGEND

- (A) SLURRY SEAL LIMITS.
- (B) GRIND ROADWAY MARKINGS AND INSTALL TEMPORARY ROADWAY PAVEMENT MARKERS AS REQUIRED.
- (C) THERMOPLASTIC CENTER STRIPING – CSD A20A – DETAIL 22 – DOUBLE YELLOW WITH TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- (D) INSTALL NEW THERMOPLASTIC STOP MARKING AND BAR
- (F) PROTECT INLETS STRUCTURE FROM THE SLURRY SEAL
- (G) PROTECT MONUMENTS
- (H) PROTECT MANHOLE STRUCTURES
- (V) PROTECT VALVE(S)
- [Hatched Box] TYPE II SLURRY SEAL

BELMONT CANYON ROAD – ±25,000 SF

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

CHECKED: BRANDON LAURIE
APPROVED: JOUBIN PAKFOUR

DRAWN: VICTOR FUNG
DESIGNED: VICTOR FUNG

**MID-PENINSULA WATER DISTRICT
HASTINGS DR, VINE ST, AND BELMONT
CANYON RD WATER MAIN IMPROVEMENTS
BELMONT CANYON RD STRIPING AND SLURRY SEAL PLAN**

DATE	09/03/21	SCALE	AS NOTED
PCG JOB NO.	10012.26		
PLAN	C6.2		
SHEET	19 OF 19		