GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE EXPRESSED IN NAVD88 DATUM WHICH IS EQUIVALENT TO 8.99 FEET ABOVE VALLEJO DATUM. (VALLEJO DATUM = NAVD88 −8.99')
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION AND SHALL RESTORE ALL THAT ARE DAMAGED OR DESTROYED. RE−ESTABLISHED MONUMENTS SHALL BE SET BY A LICENSED SURVEYOR AND FILE A RECORD OF SURVEY WITH THE SOLANO COUNTY RECORDER FOR EACH MONUMENT.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXISTING UTILITIES INCLUDING EXISTING WATER MAINS PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR POINTS OF CONNECTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. NEITHER THE CITY NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR EXISTING UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS, AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
5. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATIONS OF UTILITIES AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS THAT WERE DAMAGED BY THE CONTRACTOR SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO A CONDITION EQUAL TO OR BETTER THAN THE PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
7. THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS AS SET FORTH IN SECTION 64630, TITLE 22 OF THE CALIFORNIA ADMINISTRATIVE CODE.
8. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANIES, INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE LOCAL AGENCIES.
9. A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR THE DIG ALERT ID NUMBER, CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1−800−227−2600 AT LEAST FORTY EIGHT (48) HOURS BEFORE ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES PER THE PROJECT SPECIFICATIONS.
10. CONSTRUCTION AT ALL WORK SITES SHALL BE PERFORMED WITHIN THE STREET RIGHT OF WAY LINES OR EASEMENTS AS SHOWN ON THE PLANS.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT AN EROSION CONTROL PLAN. NO WORK SHALL COMMENCE PRIOR TO SUBMITTAL AND APPROVAL OF THIS PLAN BY THE ENGINEER.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES, INCLUDING BUT NOT LIMITED TO NPDES STORM WATER PERMIT.
13. ALL TRENCH EXCAVATIONS THAT ARE FIVE FEET OR MORE IN DEPTH SHALL BE SHORED OR OTHERWISE PROTECTED IN ACCORDANCE WITH CAL OSHA APPROVED STANDARDS.
14. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND CITY LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SHORING OF TRENCHES, VENTILATION OF CONFINED SPACES AND CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS.
15. ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE APPLICABLE ORDINANCES, SPECIFICATIONS AND STANDARDS OF THE CITY OF VALLEJO. ALL NOTES APPEARING ON THESE PLANS SHALL BE CONSIDERED AS INCIDENTAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR ADHERING TO THESE NOTES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE IN PRESERVING AND MAINTAINING THE CONSTRUCTION STAKES SET BY THE CITY FOR THE PROJECT. THE NUMBER AND LOCATION OF WHICH SHALL BE DETERMINED BEFORE CONSTRUCTION BEGINS.
17. CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE OR REQUEST INSPECTION AND SHALL NOTIFY THE APPROPRIATE INDIVIDUAL OR AGENCY TWO WORKING DAYS PRIOR TO THE TIME THAT THE CONTRACTOR WISHES THE INSPECTION TO BE MADE. THE PRESENCE OR ABSENCE OF A CITY INSPECTOR OR THE AGENCIES REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF THE WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN, PROTECT, AND MAINTAIN STORM DRAIN FACILITIES THROUGHOUT THE CONSTRUCTION PERIOD.
19. THE CONTRACTOR SHALL ADHERE TO THE TREE PROTECTION REQUIREMENTS.
20. THESE PROJECT PLANS AND SPECIFICATIONS ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN. ANY SUCH MODIFICATION SHALL REQUIRE APPROVAL BY THE ENGINEER.
21. ALL WORK AND EQUIPMENT NOT COVERED BY THE PROVISIONS OF THE CITY OF VALLEJO STANDARDS SHALL BE INSTALLED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS.
22. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
23. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS OF PRIVATE PROPERTY OWNERS ADJACENT TO THE PROJECT AT ALL TIMES DURING WORKING HOURS.
24. LENGTHS OF WATER LINES ARE HORIZONTAL MEASUREMENTS. ALL QUANTITIES AND PAY ITEMS ARE AND SHALL BE BASED ON HORIZONTAL MEASUREMENTS.
25. **SEWER LATERALS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL PRESUME AND UNDERSTAND THAT EVERY HOUSE AND/ OR COMMERCIAL BUILDING HAS A SEWER LATERAL IN THE STREET SERVING THE FACILITY. CONTRACTOR SHALL HIRE A PROFESSIONAL LOCATOR TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF THOSE LATERALS PRIOR TO START OF WORK IN EACH LOCATION.**
26. FULL COMPENSATION FOR COMPLYING WITH THESE NOTES AND OTHER NOTES ON THE PLANS SHALL BE CONSIDERED AS INCLUDED IN THE PRICE PAID FOR VARIOUS CONTRACT ITEMS OR WORK AND NO ADDITIONAL ALLOWANCE WILL BE MADE THEREFOR.

PAVING GENERAL NOTES

1. EXISTING ASPHALT PAVEMENT AND CONCRETE PAVEMENT SHALL BE SAW CUT PRIOR TO REMOVAL. THE EXPOSED EDGE OF ASPHALT PAVEMENT SHALL BE TACKED WITH ASPHALT EMULSION PRIOR TO REPAVING.
2. FOR TRENCHING IN PAVED AREAS, THE ROAD SECTION SHALL BE RESTORED TO THE AS−BUILT SECTION OF THE ROAD. IN NO CASE SHALL THE SECTION TO BE LESS THAN THAT IS REQUIRED IN THE TRENCH SECTION DETAIL.
3. FOR TRENCHING IN AREAS WITH CONCRETE PAVING, CONCRETE SHALL BE RESTORED TO THE MATCH THE EXISTING THICKNESS.

CLEARING AND GRUBBING NOTES

1. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS, UNSUITABLE MATERIALS FOR BACKFILL AND NON−ORGANIC WASTE SUCH AS PIPING, ROCK RUBBLES, ETC., AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITES AT HIS OWN EXPENSE.
2. EXISTING PIPES TO BE DEMOLISHED THAT REQUIRE NO FUTURE CONNECTION OR TO BE ABANDONED IN PLACE, SHALL BE REMOVED TO THE EXTENT NECESSARY AS SHOWN AND SEALED BY FILLING WITH TWO LINEAL FEET OF CONCRETE.
3. EXISTING PIPES TO BE CUT FOR CONNECTION TO NEW WATER MAINS SHALL BE TEMPORARILY CAPPED.
4. PIPES TO BE DEMOLISHED SHALL BE REMOVED EITHER BY SAW CUTTING, REMOVING A COMPLETE PIPE SECTION TO AN EXISTING JOINT, OR OTHER ADEQUATE MEANS WHICH RESULTS IN A CLEAN JOINT FOR CAPPING AND CONNECTING TO A NEW PIPE.

WATER SYSTEM NOTES

THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 42 INCHES COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.

AT WATER LINE CROSSINGS WITH SEWER MAINS AND LATERALS, MINIMUM VERTICAL CLEARANCE SHALL BE 12 INCHES; AT CROSSINGS WITH OTHER UTILITIES, THE MINIMUM VERTICAL CLEARANCE SHALL BE 12 INCHES.

THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO FINISHED GRADE.

BEDDING AND BACKFILL METHODS AND MATERIALS SHALL COMPLY WITH CITY SPECIFICATIONS. CLASS II AB IS SPECIFICALLY REQUIRED AROUND THE PIPE ZONE AS SHOWN IN THE TYPICAL TRENCH BACKFILL DETAIL EXCEPT SAND BACKFILL IS REQUIRED FOR DUCTILE IRON PIPE. NO RECYCLED MATERIALS FOR AB AND CONCRETE ARE ALLOWED.

EXCAVATIONS MUST BE KEPT DEWATERED AT ALL TIMES SO AS NOT TO ALLOW CONTAMINATED WATER TO ENTER WATER MAINS.

AT CROSSINGS WITH OTHER EXISTING PIPE LINES, THERE SHALL BE A MINIMUM OF TWELVE INCHES CLEAR BETWEEN THE NEW WATER MAINS AND THESE OTHER PIPES.

ALL BURIED VALVE INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THESE PLANS.

ALL EXISTING VALVES ON ABANDONED WATER MAINS SHALL BE TURNED IN THE CLOSED POSITION AND HAVE THEIR VALVE BOXES AND CONCRETE COLLARS AND RISERS REMOVED TO A DEPTH OF 18", BACKFILLED WITH CLASS II AB, AND TOPPED WITH 4" ASPHALT CONCRETE TO LEVEL WITH EXISTING GRADE.

ALL WATER MAINS THAT ARE SCHEDULED FOR ABANDOMENT SHALL BE CAPPED AND PLUGGED WITH AT LEAST TWELVE (12) INCHES OF CONCRETE AT EACH END.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION, DIAMETER, AND TYPE OF EXISTING PIPE SO THAT THE NEW PIPE CAN BE PROPERLY ALIGNED WITH AND FITTED TO THE EXISTING PIPE.

DEFLECTION OF PIPE AT JOINTS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

BENDS MAY NOT BE USED EXCEPT WHEN SHOWN ON THE PLANS OR PERMITTED BY THE ENGINEER.

THRUST RESTRAINT SHALL BE PROVIDED AT TEES AND BENDS BY MECHANICAL METHODS AND CONCRETE THRUST BLOCKS PER CITY STANDARDS. ON ALL TIE−INS AND CONNECTIONS, THERE SHALL BE NO UNRESTRAINED JOINTS WITHIN TEN (10) FEET OF THE CONNECTION OR TIE−IN.

ALL BOLTED FITTINGS AND VALVES WHICH ARE BURIED SHALL BE WRAPPED WITH A MINIMUM 16 MILS POLYETHYLENE.

ALL SERVICE LINES 2" DIAMETER AND SMALLER SHALL BE TYPE "K" COPPER WITH CORPORATION STOPS AT POINT OF CONNECTION TO MAIN.

AT WATER METERS, THE CENTER LINE OF THE CURB STOP SHALL BE 10 TO 11 INCHES BELOW THE TOP OF THE METER BOX LID.

THE INSIDE OF ALL PIPES AND FITTINGS MUST BE THOROUGHLY RINSED WITH A PROPER DISINFECTING AGENT PER AWWA C651−86.

TIE−INS WILL BE MADE AFTER DISINFECTION BY THE CONTRACTOR. TIE−INS WILL BE MADE ONLY UNDER THE DIRECTION OF CITY REPRESENTATIVES. ALL TIE−INS SHALL BE MECHANICALLY RESTRAINED WITH MEGALUGS.

MISALIGNMENT SHALL BE CORRECTED BY THE REALIGNMENT OF EITHER OR BOTH PIPES TO BE CONNECTED. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND PIPE MATERIALS NEEDED TO CONNECT THE NEW PIPE INTO THE EXISTING PIPE.

ALL FITTINGS, VALVES AND MATERIALS TO ACCOMPLISH TIE−INS SHALL BE ON THE JOB SITE AND EXISTING EXPOSED AND CHECKED FOR PROPER FIT PRIOR TO ANY SHUT DOWN OF EXISTING WATER MAINS.

IF THE TOTAL DEFLECTION OF ALL JOINTS IN THE TIE−IN AREA IS 11.25 DEGREES OR GREATER, ADEQUATE RESTRAINT MUST BE PROVIDED.

TIE−INS BY THE CONTRACTOR MUST BE COORDINATED WITH THE WATER MAINTENANCE SUPERVISOR AT LEAST 72 HOURS IN ADVANCE OF WORK. EXCAVATIONS BY THE CONTRACTOR FOR TIE−INS MUST BE APPROVED THE DAY BEFORE WORK IS TO COMMENCE AT EACH TIE−IN.

EXISTING WATER MAINS TO BE TAPPED SHALL BE PERFORMED BY CITY WATER MAINTENANCE UNLESS OTHERWISE APPROVED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TAPPING SLEEVE, TAPPING SADDLE, TAPPING VALVE AND ANY OTHER MATERIAL NEEDED TO PERFORM THE TAP INCLUDING EXCAVATION, BACKFILLING, PAVING, AND COMPLETION OF THE WORK TO FINISH GRADE.

ABBREVIATIONS

(abd)	Abandoned	N	North
AC	Asphalt Concrete	NTS	Not to Scale
ACP	Asbestos Concrete Pipe		
ARV	Air Relief Valve	O.D.	Outside Diameter
		OSHA	Occupational Safety and Health Administration
BC	Begin Horizontal Curve		
BV, bv	Butterfly Valve		
		PCC	Portland Cement Concrete
C&G	Curb and Gutter	PRC	Point of Reverse Hor. Curve
CAV	Combination Air Valve	PRS	Pressure Reducing Station
CB, cb	Catch Basin	PVC, pvc	Polyvinyl Chloride
CIP, cip	Cast Iron Pipe		
		R	Radius
DIP, dip	Ductile Iron Pipe	R/W	Right of Way
DR, dr	Desity Ratio	RCP, rcp	Reinforced Concrete Pipe
E	East	S	South
EC	End Horizontal Curb	SD, sd	Storm Drain
EL, Elev.	Elevation	SDMH, sdmh	Storm Drain Manhole
EP	Edge of Pavement	si	Signal Interconnect Lines
(E)	Existing	SS, ss	Sanitary Sewer
		SSMH, ssmh	Sanitary Sewer Manhole
FE	Flange End	ST., St.	Street
FH, fh	Fire Hydrant	STA., Sta.	Station
FL	Flange Joint	SW	Sidewalk
fo	Fiber Optic Lines		
FS	Fire Line Service	T	Telephone
		TYP., typ.	Typical
G, g	Gas		
GR., Gr.	Grade	USGS	United States Geological Survey
GV, gv	Gate Valve		
HDPE	High Density Polyethylene	W	West
		W/, w/	With
INV	Invert	WL, wl	Water Line
		WM, wm	Water Meter
JT, jt	Joint Trench	WS, ws	Water Service
		WV, wv	Water Valve
L	Length		
LF, lf	Linear Feet		
mm	Millimeter		
M, m	Meter		
MJ	Mechanical Joint		
MON	Monument		

LEGENDS

EXISTING

—t—	Underground Telephone		Traffic Signal Pole
—e—	Underground Electric		Power Pole
	Gas Line		Light Pole
	Gas Fitting		Pole Anchor
	Gas Valve		Padmount Transformer
	Water Valve		Subsurface Transformer
	Water Line		Padmount Utility Cabinet
12"SS	Sanitary Sewer Line		Subsurface Utility Vault
12"SD	Storm Drain Line	t	Telephone Manhole
	Catch Basin	oco	Sanitary Sewer Cleanout
	Curb Inlet	xs	'S' Stamped In Pavement
	Storm/Sanitary Manhole	ori	Rodding Inlet
	Fire Hydrant	wm	Water Meter
fdc	Fire Department Connection	bfd	Backflow Device
piv	Post Indicator Valve		Blow Off
	Right of Way Line	tv	Cable TV Box or Pedestal
	Property Line	t	PacBell Telephone Box
	Face of Curb/Edge of Pavement		PG&E Splice Box
	Valley Gutter	sl	Street Light Box
	Fence Line	ts	Traffic Signal Box
STOP	Pavement Marking	tsi	Traffic Signal Interconnect Box
252	Street Address	ped	Crosswalk Signal Button
50	Contour Elevation	an	Anode
x 4.26	Spot Elevation	ets	Electrolysis Test Station
	City Monument	e	Electrical Pullbox
	Utility to be Abandoned		Detector Pullbox
	Utility to be Removed		Monitoring Well

PROPOSED

	Fire Hydrant		Elbow Fitting (MJxMJ)
	Water Line & Material		Connection Fitting
	Water Reducer		Cap Fitting
	Water Valve	GATEWAY DR. 12	Plan & Profile Sheet Number with hatched location
	Gate Valve		
	Air Relief Valve		
	Blow Off		

INIT.	
REVISION	
MARK	
DATE	

CITY OF VALLEJO
UTILITIES DEPARTMENT
WATER DIVISION

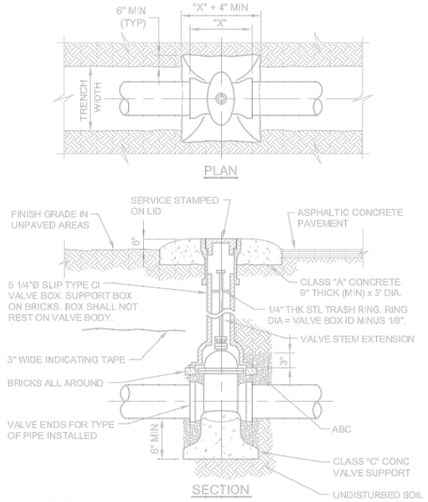
APPROVED: DAVID A. KLEINSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787
ON

MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

GENERAL NOTES, ABBREVIATIONS & LEGENDS

CITY PROJECT #	WT-7079
DESIGN BY	JJ
DRAWN BY	FJM
CHECKED BY	JJ/MAB
DATE	03-18-2014
SCALE	NTS
SHEET	2
	G-1
OF	XX SHEETS
DRAWING FILE #	7079-G-1

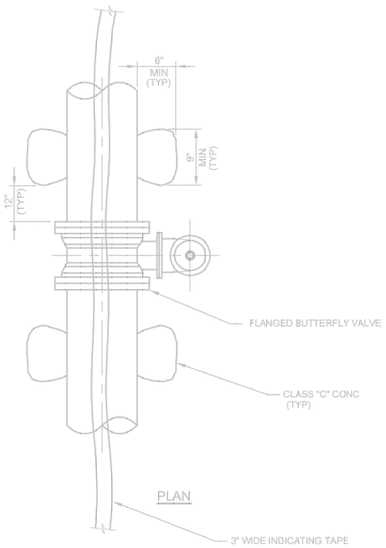
3/28/2014 4:58 PM H:\0WATER\7079 - MONTICELLO WATER MAIN REPLACEMENT\ALIGNMENT PLANS\MONTISELLO 24IN EXISTING WATER MAIN.DWG



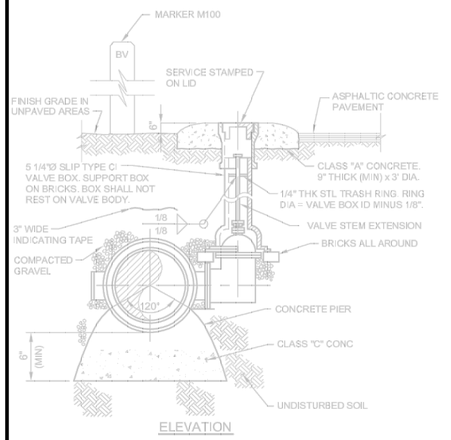
NOTES:

1. ALL BURIED VALVES SHALL BE PROVIDED W/ EXTENSION STEM OPERATOR W/ 2" SQ AWWA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.
2. COAT BURIED PIPE AND VALVE BOX PER SPECIFICATIONS.
3. CLEAN VALVE BOX OF ALL DEBRIS AND SOIL.
4. VALVE TYPE AS INDICATED ON THE DRAWINGS.

1 TYP VALVE BOX INSTALLATION 08-01-05



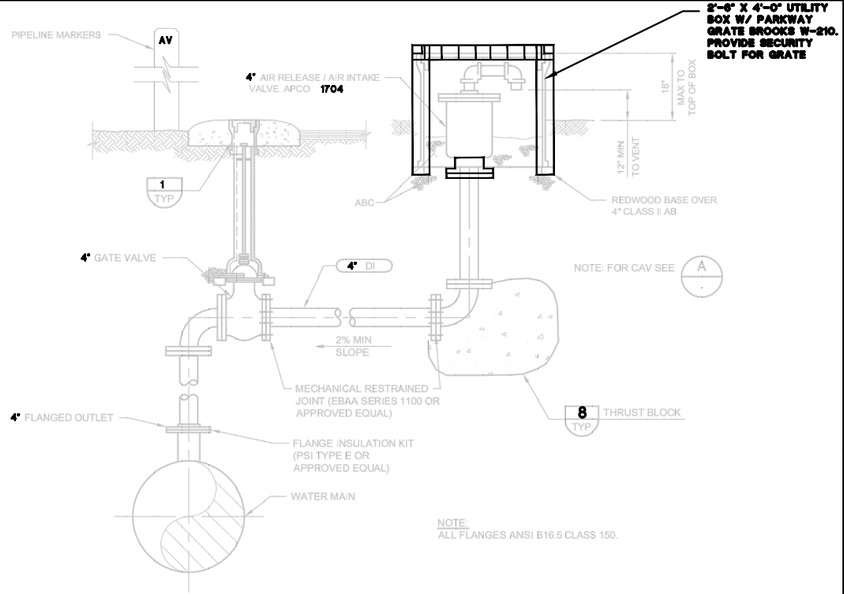
2 TYP BURIED BUTTERFLY VALVE SHEET 1 OF 2 08-01-05



NOTES:

1. ALL BURIED VALVES SHALL BE PROVIDED W/ EXTENSION STEM OPERATOR W/ 2" SQ AWWA NUT WITHIN 36" OF VALVE BOX COVER. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.
2. COAT BURIED PIPE AND VALVE BOX PER SPECIFICATIONS.
3. CLEAN VALVE BOX OF ALL DEBRIS AND SOIL.

3 TYP BURIED BUTTERFLY VALVE SHEET 2 OF 2 08-01-05

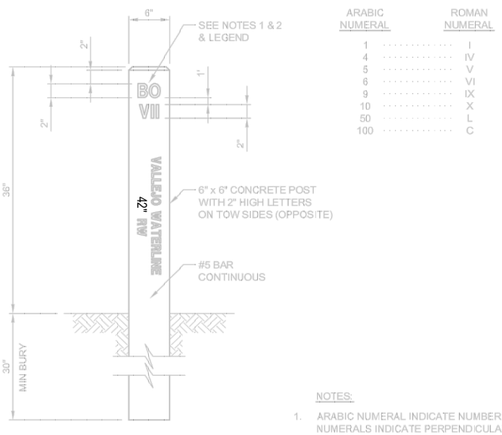


NOTE:
ALL FLANGES ANSI B16.5 CLASS 150.

4 TYP COMBINATION AIR RELEASE & AIR VACUUM OR VACUUM RELIEF VALVE 08-01-05

NOTE:

1. DUCTILE IRON PIPING TO HAVE FLANGED JOINT EXCEPT AT MECHANICAL RESTRAINED JOINTS.



STANDARD MARKER POST

ARABIC NUMERAL	ROMAN NUMERAL
1	I
4	IV
5	V
6	VI
9	IX
10	X
50	L
100	C

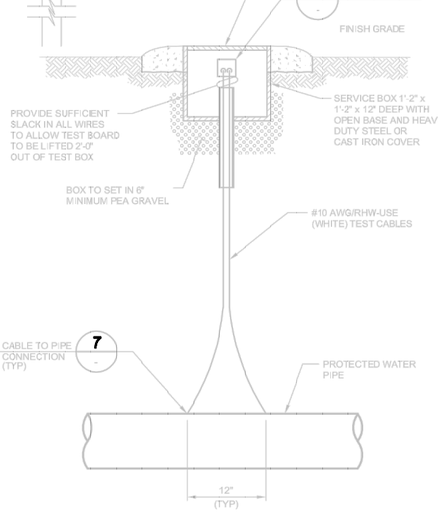
LEGEND

BO	BLOW OFF
BV	BUTTERFLY VAVLE
-	**CP TEST STATION**
AP	**ANGLE POINT**
AV	**AIR RELEASE VALVE**
MH	MANHOLE

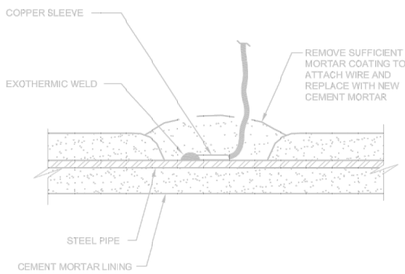
NOTES:

1. ARABIC NUMERAL INDICATE NUMBER OF INSTALLATIONS. ROMAN NUMERALS INDICATE PERPENDICULAR DISTANCE TO THE NEAREST FOOT FROM MARKER TO INSTALLATION.
2. REFERENCE LETTERS AND NUMERALS SHALL BE CHISELED INTO CONCRETE AND PAINTED RED. CURB MARKINGS FOR HYDRANT GATE VALVES SHALL BE INCISED ON FACE OF CURB DIRECTLY IN FRONT OF HYDRANT.
3. PLACEMENT OF MARKER POST:
   A. SET POSTS VERTICALLY TRUE AND FACING THE INSTALLATION.
   B. MARKER POSTS SHALL NOT BE SET IN TRAVELED WAY
   C. DO NOT SET POST OUTSIDE OF WATERLINE EASEMENT ON PRIVATE PROPERTY.
   D. MARKER POSTS NOT REQUIRED WHERE REFERENCES CAN BE CHISELED INTO PERMANENT CURB.

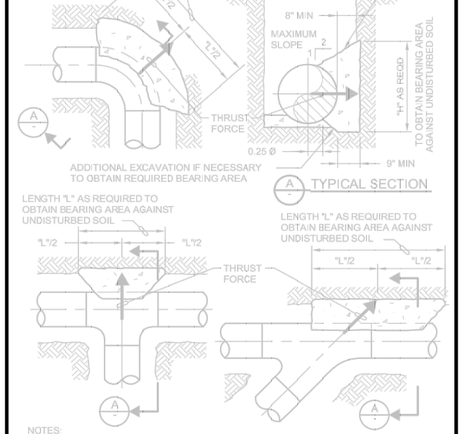
5 TYP MARKER POST DETAIL



6 POTENTIAL TEST STATION (PTS)



7 CABLE TO PIPE CONNECTION



NOTES:

1. BEARING AREA IS THE AREA REQUIRED TO OBTAIN A MAXIMUM SOIL LOADING OF 200 PSF PER FOOT OF DEPTH TO A MAXIMUM VALUE OF 1500 PSF AT THE TOP OF THRUST BLOCK WHEN THE PIPE IS SUBJECTED TO ITS TEST PRESSURE, OR BEARING AREA INDICATED ON THE DRAWINGS.
2. CONCRETE SHALL BE CLASS "A" OR "C".
3. THRUST BLOCK SHALL BEAR ON UNDISTURBED SOIL.

8 TYP PIPE THRUST BLOCK 08-01-05 NS

INIT.	DATE	MARK	REVISION

CITY OF VALLEJO
UTILITIES DEPARTMENT — WATER DIVISION

APPROVED: _____ ON _____
DAVID A. KLEINSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787

MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

MONTICELLO PIPELINE REPLACEMENT

DETAILS SHEET PHASE 1

CITY PROJECT #	WT-7079
DESIGN BY	JJ
DRAWN BY	FJM
CHECKED BY	JJ/MAB
DATE	03-18-2014
SCALE	NTS
SHEET	3
	PHASE 1 D-1
OF	XX SHEETS
DRAWING FILE #	7079-D-1

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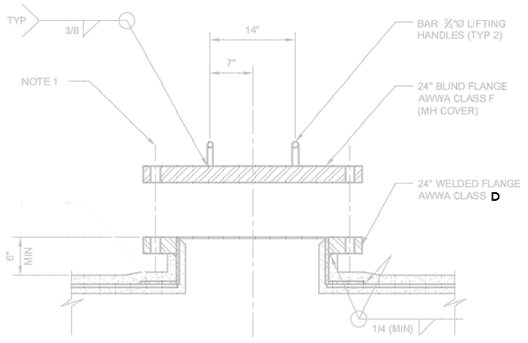
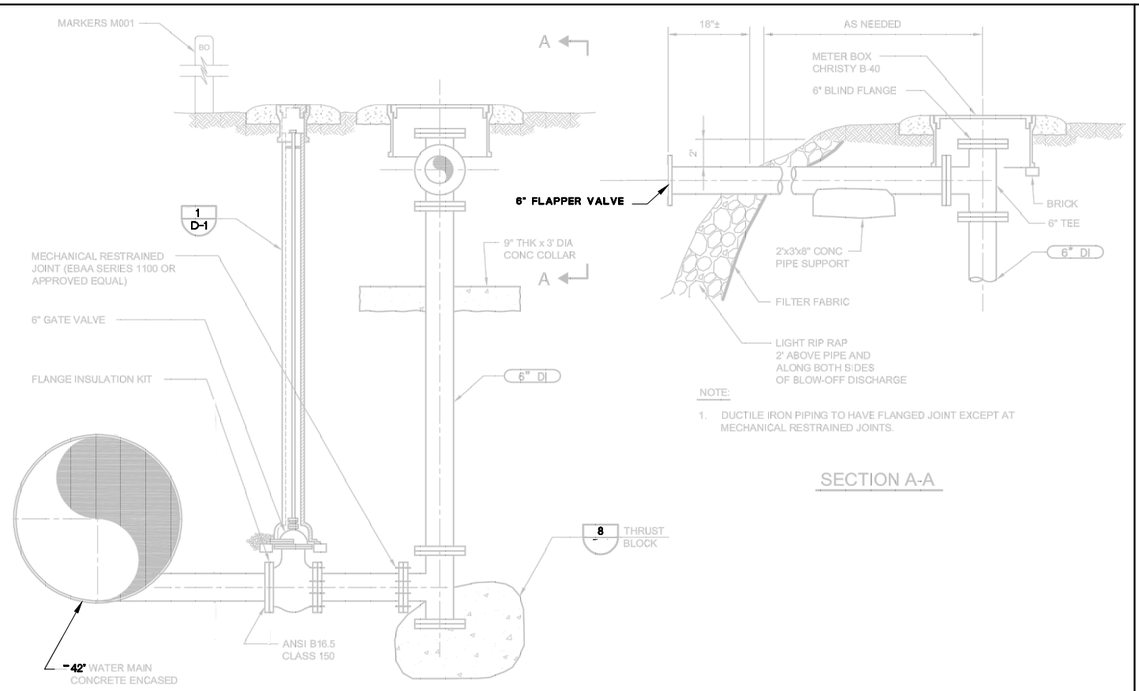


NOTES:

1. 1.25"Ø THREADED STUDS WITH 2 HEAVY HEX NUTS PER BOLT HOLE (TYP 24 HOLES) 1-1/16" THK FULL FACE GASKET.

1 24" BURIED MANHOLE

SCALE: 1" = 1'-0"
FILE: 01-010-401.dwg



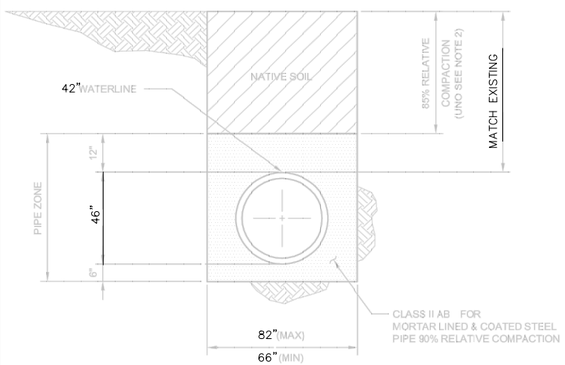
NOTE:

1. DUCTILE IRON PIPING TO HAVE FLANGED JOINT EXCEPT AT MECHANICAL RESTRAINED JOINTS.

SECTION A-A

3 BLOW - OFF ASSEMBLY

SCALE: 3/4" = 1'-0"
FILE: 01-010-405.dwg



NOTES:

1. SHORING SHALL BE REQUIRED FOR TRENCH DEPTH OF 5'-0" OR GREATER AND WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED.
2. TRENCHES CROSSING PAVED ROADS IN UNIMPROVED AREAS SHALL HAVE THE TOP 36" OF BACK FILL WITH AB AND COMPACTED TO 95% RELATIVE COMPACTION. ROAD SURFACE AND BASES SHALL BE REPLACED IN KIND.
3. TRENCH BACKFILL MATERIAL ABOVE CONCRETE ENCASEMENT (STD DETAIL P040) AND UNDER PAVED ROADS, TO BE BACKFILLED WITH NATIVE SOILS AND COMPACTED TO 95% RELATIVE COMPACTION.
4. SHORING SHALL BE PER CAL/OSHA REQUIREMENTS.
5. CONTRACTOR TO VERIFY/ADJUST MINIMUM TRENCH WIDTH TO ACCOMMODATE THE COMPACTION EQUIPMENT.

2 42" PIPE TRENCH SECTION

SCALE: NTS
FILE: 01-010-406.dwg

DATE	MARK	REVISION	INIT.

CITY OF VALLEJO
UTILITIES DEPARTMENT — WATER DIVISION

APPROVED: _____ ON _____
DAVID A. KLENSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787

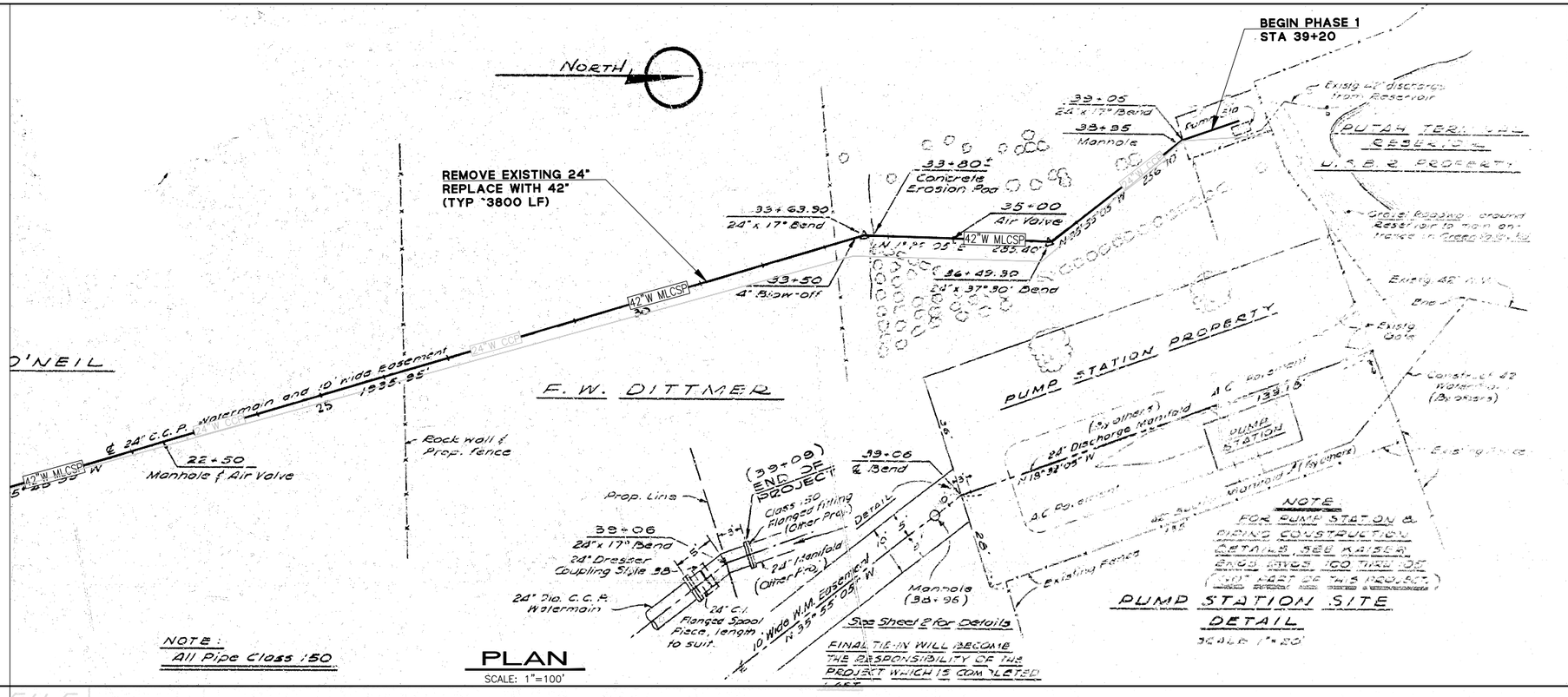
MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

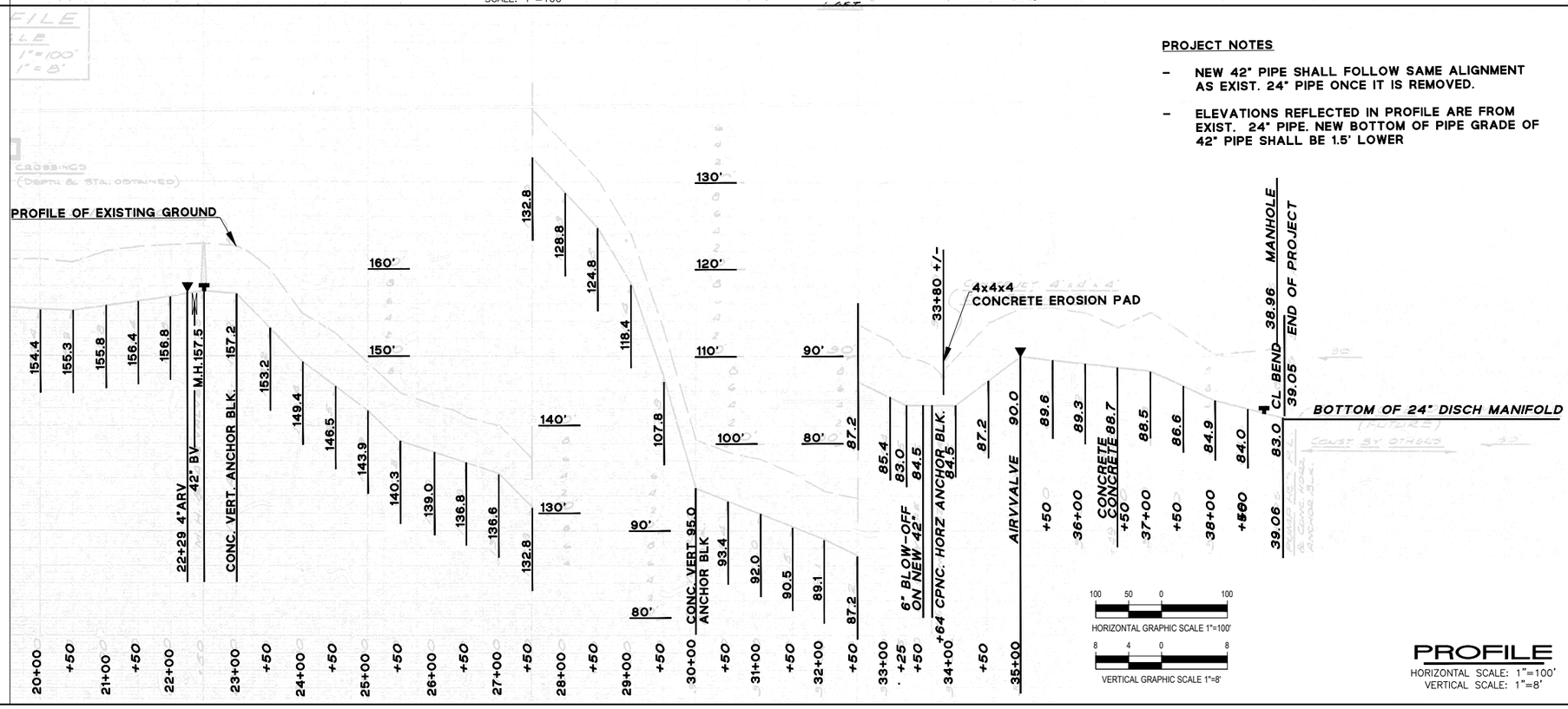
MONTICELLO PIPELINE REPLACEMENT

DETAILS SHEET PHASE 1

CITY PROJECT #	WT-7079
DESIGN BY	JJ
DRAWN BY	FJM
CHECKED BY	JJ/MAB
DATE	03-18-2014
SCALE	NTS
SHEET	4
	PHASE 1 D-2
OF	XX SHEETS
DRAWING FILE #	7079-D-2

3/26/2014 4:58 PM H:\DWATER\7079 - MONTICELLO WATER MAIN REPLACEMENT\ALIGNMENT PLANS\MONTISELLO 24IN EXISTING WATER MAIN.DWG





INIT.	REVISION	DATE	MARK

CITY OF VALLEJO
UTILITIES DEPARTMENT
WATER DIVISION

APPROVED: _____ ON _____
DAVID A. KLENSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787

MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

MONTICELLO PIPELINE REPLACEMENT

PLAN AND PROFILE - PHASE 1-A

CITY PROJECT #	WT-7079
DESIGN BY	JJ
DRAWN BY	FJM
CHECKED BY	JJ/MAB
DATE	03-18-2014
SCALE	1"=100'
SHEET	5

PHASE 1-A

OF XX SHEETS

DRAWING FILE #
7079-PP-1

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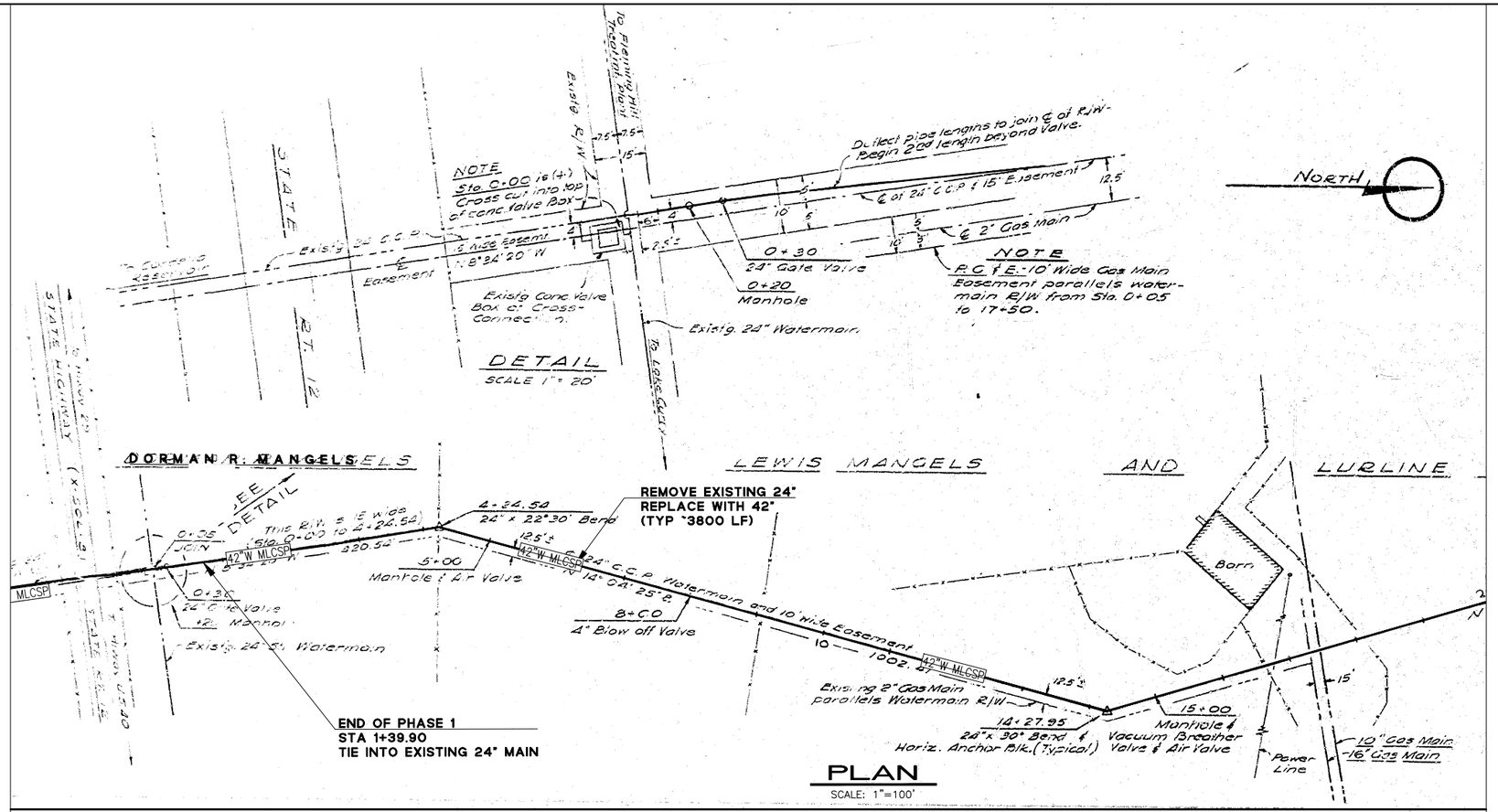

PROFILE

HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=8'

100 50 0 100
HORIZONTAL GRAPHIC SCALE 1"=100'

8 4 0 8
VERTICAL GRAPHIC SCALE 1"=8'

DATE	MARK	REVISION	INIT.

CITY OF VALLEJO
UTILITIES DEPARTMENT — WATER DIVISION

APPROVED: _____ ON _____
DAVID A. KLENSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787

MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

MONTICELLO PIPELINE REPLACEMENT

PLAN AND PROFILE - PHASE 1-B

CITY PROJECT #	WT-7079
DESIGN BY	JJ
DRAWN BY	FJM
CHECKED BY	JJ/MAB
DATE	03-18-2014
SCALE	1"=100'
SHEET	6
OF XX SHEETS	
DRAWING FILE #	7079-PP-2

PHASE 1-B

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CITY OF VALLEJO

PUBLIC WORKS DEPARTMENT - WATER DIVISION

MONTICELLO PIPELINE REPLACEMENT (PHASE 1) PROJECT WT7079

CITY COUNCIL

Osby Davis, Jr. - Mayor

Bob Sampayan - Vice Mayor

Pippin Dew-Costa

Jesus "Jess" Malgapo

Robert H. McConnell

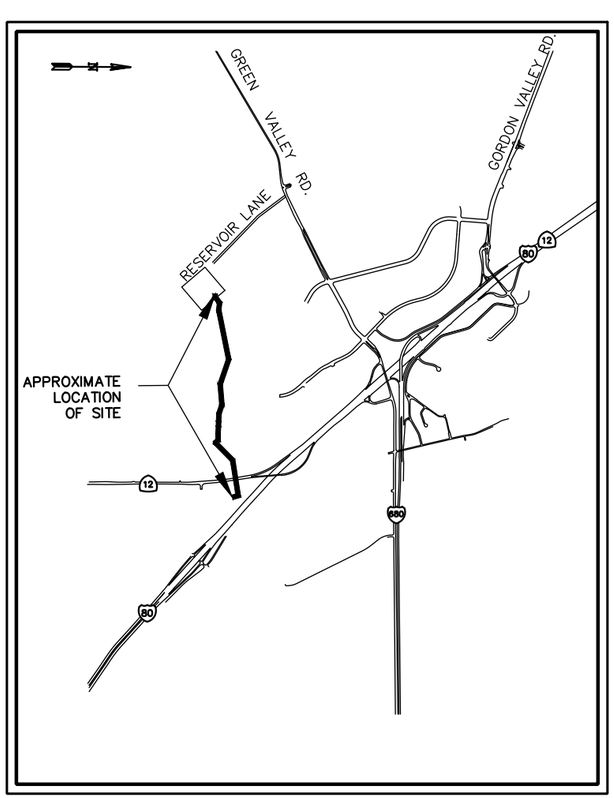
Katy Miessner

Rozzana Verder-Aliga, EdD

Approved for Construction:

David A. Kleinschmidt, RCE No. 33787
Public Works Director, City of Vallejo

Date



PROJECT LOCATION MAP

INDEX OF DRAWINGS

SHT. NO.	DWG. NO.	DESCRIPTION
1	T-1	TITLE SHEET
2	G-1	GENERAL NOTES, ABBREVIATIONS, & LEGENDS
3	D-1	DETAILS SHEET
4	D-2	DETAILS SHEET
5	PP-1	PLAN AND PROFILE - PHASE 1-A
6	PP-2	PLAN AND PROFILE - PHASE 1-B
7	PP-3	PLAN AND PROFILE - PHASE 2-A
8	PP-4	PLAN AND PROFILE - PHASE 2-B

Elevations shown on these plans are based on the North American Vertical Datum of 1988 (NAVD88).
City of Vallejo Datum (COVD) = NAVD88 - 8.99
COVD = National Geodetic Vertical Datum 1929 (NGVD29) - 6.34
COVD = MID - 106.34
Mare Island Datum (MID) = NGVD29 + 100

DATE	MARK	REVISION	INIT.

CITY OF VALLEJO
UTILITIES DEPARTMENT
WATER DIVISION

APPROVED: _____ ON _____
DAVID A. KLEINSCHMIDT, PUBLIC WORKS/ UTILITIES DIRECTOR, RCE #33787

MONTICELLO PIPELINE REPLACEMENT (PHASE 2) PROJECT WT-7079

MONTICELLO PIPELINE REPLACEMENT

TITLE SHEET

CITY PROJECT # WT-7079
DESIGN BY JJ
DRAWN BY FJM
CHECKED BY JJ/MAB
DATE 03-18-2014
SCALE N.T.S.
SHEET 1
T-1
OF XX SHEETS
DRAWING FILE # 7079-T-1

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