BEAUMONT - CHERRY VALLEY WATER DISTRICT WATER PIPELINE REPLACEMENT PROJECTS

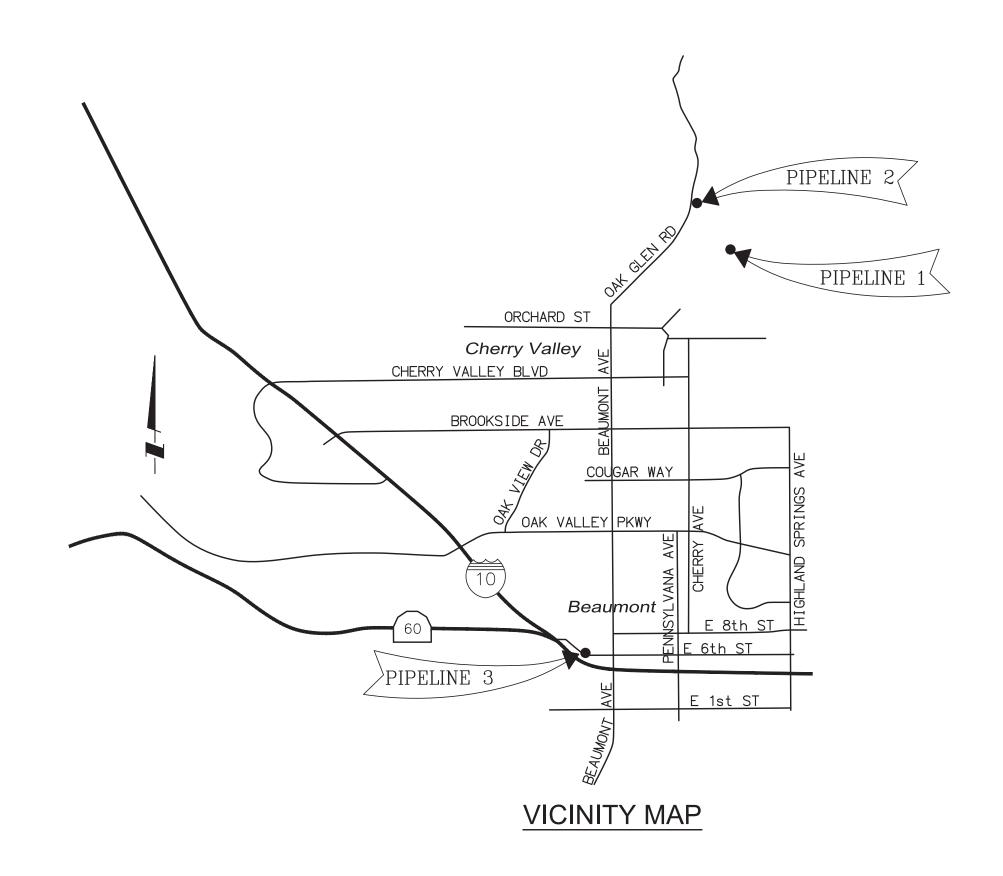
PIPELINE 1: P-3620-0012 AVE ALTEJO BELLA, AVENIDA MIRAVILLA TO END OF CUL-DE-SAC

2750 & 3620 ZONES

WORK FOR THIS BID SET ONLY INCLUDES WORK FOR THE CONSTRUCTION OF PIPELINE 1: P-3620-0012 AVE ALTEJO BELLA, AVENIDA MIRAVILLA TO END OF CUL-DE-SAC.

ANY REFERENCE TO OR DETAIL FOR PIPELINE 2 AND PIPELINE 3 NOT A PART OF THIS BID SET.

PIPELINE 1: Located Within a Portion of Sections 22 & 23, Township 2 South, Range 1 West, S.B.M. PIPELINE 2: Located Within a Portion of Section 14 & 15, Township 2 South, Range 1 West, S.B.M. PIPELINE 3: Located Within a Portion of Section 9, Township 3 South, Range 1 West, S.B.M.



CONTRACTOR'S RESPONSIBILITY FOR THE JOB SITE

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

THE PRIVATE ENGINEER SIGNING THESE PLANS I RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THI EVENT OF DISCREPANCIES ARISING AFTER BCVWD APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE

NOTE:

BCVWD.

WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

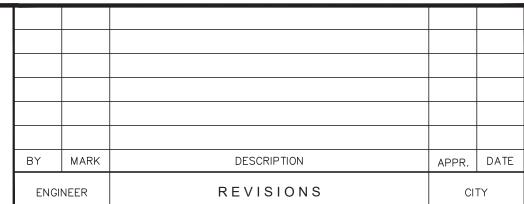


BASIS OF BEARINGS:

BENCHMARK:

PER PLAN

CALIFORNIA COORDINATE SYSTEM, ZONE , NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE ETWEEN CORS P584 AND MLFP BEING 184-41-07.39W AS DERIVED FROM GEODETIC VALUES PUBLISHED BY CSRC AND/OR NGS, RESPECTIVELY.



PRIVATE ENGINEER'S NOTICE TO CONTRACTOR(S)

OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS REQUIRED FOR THE

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR/OR LIABLE FOR

RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.

PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS

STRUCTURES CONCERNED BEFORE STARTING WORK.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS

REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR

UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN

QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE

Michael Baker INTERNATIONAL MBAKERINTL.COM

40810 COUNTY CENTER DR. DRAWN BY: TEMECULA, CA 92591 PHONE: (951) 676-8042 CHECKED BY:

DATE: 1/1<u>5/2021</u>

R.C.E. 87843

BEAUMONT - CHERRY VALLEY WATER DISTRICT **PURPOSES ONLY**

Approved By:

LASERFICHE METADATA

d. TOWNSHIP, RANGE, SECTION:

e. DR CASE NUMBER: MS04383

b. # OF SHEETS: 14

f. PLAN TYPE: WT

g. FILE NUMBER: TBD

h. YEAR SIGNED: 2021

i. IP NUMBER: IP200048

c. PROJECT LOCATION:

a. TITLE: WATER PIPELINE REPLACEMENT PROJECT

CITY OF BEAUMONT, CALIFORNIA WATER PIPELINE REPLACEMENT PROJECTS

PIPELINE 2: APPLETREE LANE, B LINE TO OAK GLEN ROAD

PIPELINE 1: AVE ALTEJO BELLA, AVENIDA MIRAVILLA TO END OF CUL-DE-SAC

PIPELINE 3: EGAN AVE, CALIFORNIA ALLEY FROM 5TH TO 7TH STREETS

TITLE SHEET * VICINITY MAP

BCVWD

MS0483 / IP200048

PIPELINE 1: LOCATED WITHIN A PORTION OF SECTIONS 22 & 23, TOWNSHIP 2 SOUTH, RANGE 1 WEST, S.B.M.

PIPELINE 2: LOCATED WITHIN A PORTION OF SECTION 14 & 15, TOWNSHIP 2 SOUTH, RANGE 1 WEST, S.B.M.

PIPELINE 3: LOCATED WITHIN A PORTION OF SECTION 9, TOWNSHIP 3 SOUTH, RANGE 1 WEST, S.B.M.

- 14 SHEET LE NO.:

DIAL TOLL FREE east Two Working Days UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

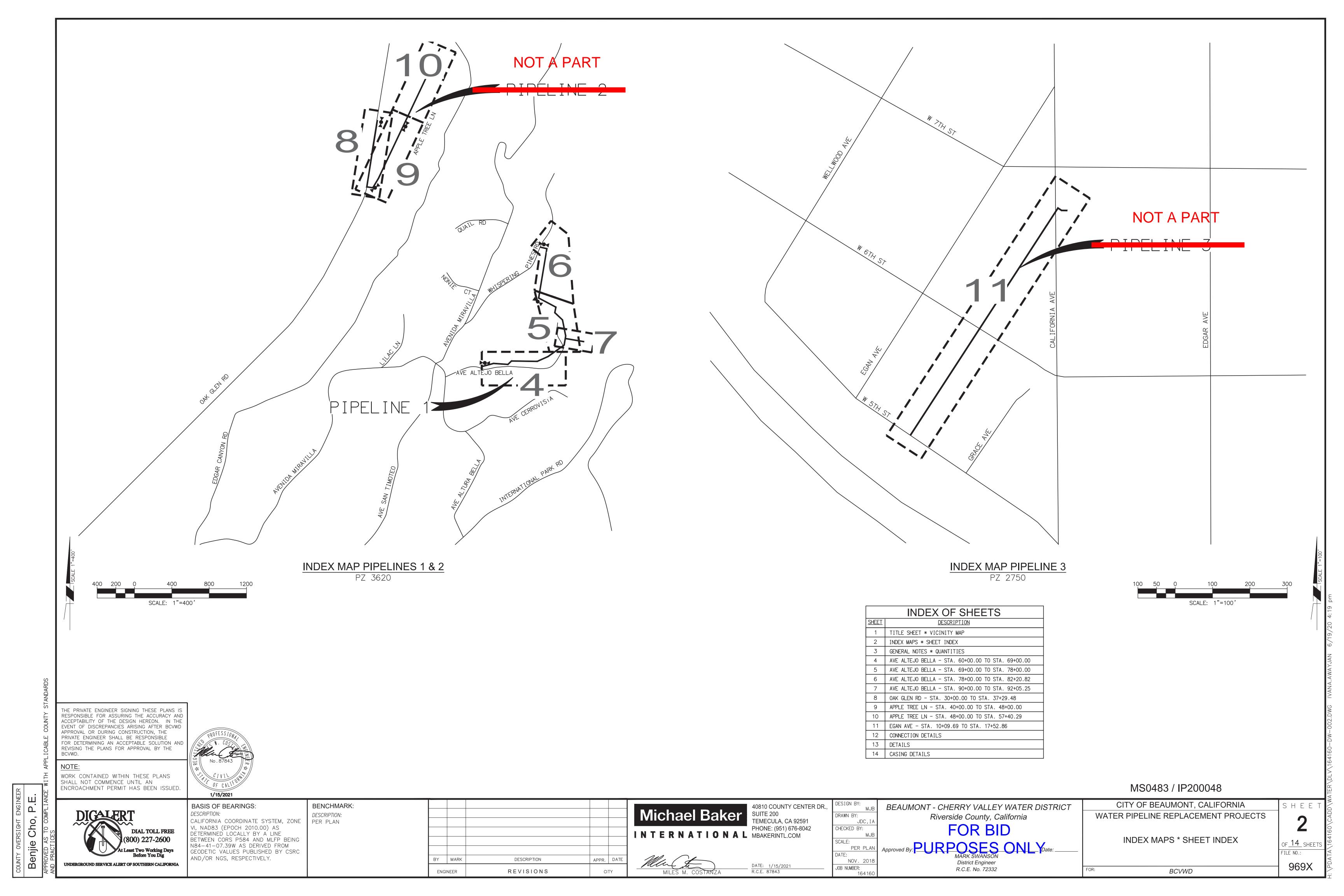
PER PLA NOV. 2018 JOB NUMBER:

JDC,

MARK SWANSON District Engineer R.C.E. No. 72332

969X

PZ2750 PZ3620



7. ALL FIRE HYDRANTS SHALL BE TYPE JONES 3765, 6" x 4" x 2.5" x 2.5" OUTLET AND SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT STANDARD PLATE NO. 1, AND PLATE NO. 2.

COUNTY, AS APPROPRIATE, PRIOR TO CONSTRUCTION.

8. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK ON THE WATER UTILITY INSTALLATION. CONTRACTOR SHALL NOTIFY DISTRICT BY PRECEDING WEDNESDAY AT 4:00 P.M. PRIOR TO WORKING DURING THE WEEKEND. CANCELLATIONS SHALL BE NOTIFIED TO THE DISTRICT BY PRECEDING FRIDAY AT 3:00 P.M.

9. NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.

10. NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE DISTRICT.

11. EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE SHUTDOWN A MINIMUM OF 48 HOURS PRIOR TO THE ACTUAL SHUTDOWN. INDICATE THE DATE AND PRECISE HOURS THAT THE MAIN WILL BE TAKEN OUT OF SERVICE.

12. CONTRACTOR SHALL CONFORM TO THE STREET EXCAVATION REPLACEMENT STANDARDS OF THE CITY OF BEAUMONT OR RIVERSIDE COUNTY WHICHEVER HAS JURISDICTION.

13. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO PLACEMENT OF CONCRETE FOR SIDEWALKS.

14. AIR AND VACUUM RELEASE ASSEMBLIES PER DISTRICT STANDARD PLATE NO. 5-1 AND 5-2 SHALL BE INSTALLED AT ALL HIGH POINTS ON THE WATER MAIN. ADDITIONAL ASSEMBLIES OVER THOSE SHOWN ON THE DRAWINGS MAY BE NECESSARY WHEN SUBSTRUCTURES REQUIRE A CHANGE IN LINE OR GRADE OF THE WATER LINE. 2" AIR VALVE PIPING SHALL BE TAPE WRAPPED PER NOTE 15, HERON.

15. CONTRACTOR TO INSTALL MINIMUM 1" COPPER, TYPE K, SERVICE LATERALS IN ACCORDANCE WITH DISTRICT SPECIFICATIONS SHOWN ON DISTRICT STANDARD PLATE 6-2, 6-3 AND PLATE 12. ALL COPPER SERVICES SHALL BE INSTALLED WITH TAPE WRAP OR WITH POLYETHYLENE ENCASEMENT.

16. THE CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.

17. CONTRACTOR SHALL RESTRAIN ALL JOINTS AT TEES, ELBOWS, DEAD ENDS, ETC. AS INDICATED ON THE PLANS AS A MINIMUM. SEE GENERAL CONSTRUCTION NOTE 6 ON THIS SHEET.

18. CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE CITY, COUNTY OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING AND OTHER SERVICES.

19. CONTRACTOR SHALL INSTALL BLUE REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH THE RIVERSIDE COUNTY FIRE DEPARTMENT "GUIDELINES FOR FIRE HYDRANT MARKINGS" LATEST REVISION AND DETAIL "A" HEREON.

20. ALL FIRE HYDRANT BARRELS ARE TO BE CHROME YELLOW WITH TOPS AND NOZZLE CAPS PAINTED WITH THE FOLLOWING CAPACITY-INDICATING COLOR SCHEME; CLASS-A GREEN.

21. ALL PIPE SHALL BE HYDRO TESTED, DISINFECTED AND APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATER LINES.

22. BASIS OF WATERLINE STATIONING SHALL BE ALONG PIPELINE CENTERLINE, UNLESS OTHERWISE NOTED.

23. ALL MATERIALS SHALL BE OF DOMESTIC ORIGIN AND NOT OF FOREIGN MANUFACTURE.

24. CONTRACTOR SHALL FURNISH TO THE DISTRICT ELECTRONIC FILES IN AUTOCAD FORMAT OF THE SIGNED AND APPROVED "RECORD DRAWINGS" AND GIS DIGITAL DATA DEFINITION TABLES, PER DISTRICT STANDARDS, PRIOR TO FINAL ACCEPTANCE OF THE WORK.

25. CONTRACTOR SHALL FURNISH TO THE DISTRICT COPIES OF ALL SOILS COMPACTION TEST REPORTS FOR THE INSTALLED WATER MAINS TWO (2) WORKING DAYS PRIOR TO THE HYDRO TESTING OF PIPELINES.

26. CONTRACTOR SHALL FURNISH TO THE DISTRICT INTERSECT TIE PLATES IN ACCORDANCE WITH DISTRICT STANDARDS PLATE NO. D-2 FOR ALL VALVE LOCATIONS PRIOR TO FINAL ACCEPTANCE OF THE WORK.

27. CONTRACTOR SHALL FURNISH DISTRICT WITH PROJECT SPECIFIC MATERIALS OF CONSTRUCTION SUBMITTALS (IN PDF FORMAT) FOR REVIEW APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

28. CONTRACTOR SHALL KEEP AND MAINTAIN AT THE JOB SITE ONE (1) SET OF RECORD DRAWINGS CONTRACTOR SHALL MARK ON DRAWINGS ALL CHANGES IN PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS AND ANY DEVIATIONS WHICH MAY VARY FROM THE DRAWINGS. THESE MASTER RECORD DRAWINGS SHALL BE MAINTAINED UP TO DATE DURING THE PROGRESS OF WORK. RECORD DRAWINGS SHALL BE ACCESSIBLE TO THE DISTRICT AT ALL TIMES DURING CONSTRUCTION AND A COPY OF SAID RECORD DRAWINGS SHALL BE DELIVERED TO THE DISTRICT UPON COMPLETION OF THE

29. TRENCH WORK DISTURBING A LANE IN THE COUNTY MAINTAINED ROAD SYSTEM, SHOULD BE MILLED AND FILLED WITH 0.1' HMA AND OVERLAYING PERPENDICULAR TRENCH INSTALLATIONS PER STANDARD 818, FLUSH WITH THE EXISTING PAVEMENT

PIPELINE 2 AND PIPELINE 3 NOT A PART

OWN ESTIMATE FOR BID PURPOSES.

GENERAL CONSTRUCTION NOTES 1. ALL JOINTS AND FITTINGS TO BE MECHANICALLY RESTRAINED.

2. ALL HYDRANT TEES SHALL BE FLANGED WITH FLGXMJ ADAPTERS

3. ALL JOINTS SHALL BE RESTRAINED WITH U.S. PIPE, "FIELD-LOK 350" GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL

4. ALL HYDRANT, DRAIN AND BLOW-OFF LATERALS SHALL HAVE RESTRAINED JOINTS.

5. DOMESTIC WATER MAIN SHALL BE MINIMUM PRESSURE CL.200 D.I.P. UNDER STORM DRAIN CROSSINGS. A 20 FOOT LENGTH OF D.I.P. AND STEEL SLEEVE SHALL BE CENTERED UNDER STORM DRAIN IN A STEEL SLEEVE SUCH THAT NO WATER MAIN JOINTS ARE WITHIN 4' OF THE OUTSIDE DIAMETER OF THE STORM DRAIN. THE VERTICAL CLEAR SEPARATION SHALL BE MINIMUM 1 FT.

6. IF JOINTS CANNOT BE RESTRAINED BY OTHER MEANS, CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL DEAD ENDS, TEES, ELBOWS, BENDS, CROSSES, BLOWOFFS, DRAINS AND FIRE HYDRANTS SHOWN ON THE PLANS. THRUST BLOCKS SHALL ALSO BE INSTALLED AT DEAD END ELBOWS TO FIRE HYDRANTS. THRUST BLOCKS SHALL BE CONSTRUCTED PER DISTRICT STANDARDS AND SHALL CONFORM TO THE DIMENSIONS IN DISTRICT STANDARD PLATES NO. 11-1 AND 11-2. THRUST BLOCK BEARING AREA SHALL BE SCALED BASED ON THE SOIL BEARING CAPACITY IDENTIFIED IN THE SOILS REPORT. PIPELINE 1 = 2,200 PSF; PIPELINE 2 = 1,800 PSF; PIPELINE 3 = 2,000

ALL ASPHALT AND BASE COARSE SHOULD BE REPLACED IN KIND AND MATCH EXISTING THICKNESS. FOR THE PURPOSE OF BIDDING, ASSUME 4-INCH THICK BASE AND 4-INCH

SEQUENCE OF WORK

PIPELINE 1 PIPELINE 2 PIPELINE 3

l LF

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EA

EΑ

45

29,640 CF

6,788 SF

470

2197

161

2

6

10

7 l

2

3 |

2

1

205

1

18

1

50

29,112 CF

2

2

2

EΑ

SF

EΑ

2

2

1

1

1

1

5

14

QTY.

743

187

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

LF

SF

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

EΑ

280

102

7,551

ALL WORK SHALL BE SEQUENCED SUCH THAT EXISTING FACILITIES REMAIN IN SERVICE UNTIL FINAL CONNECTION IS MADE AND REPLACEMENT FACILITIES ARE COMPLETE

METER SERIAL NO.

49598155

18490127

0903653

17885333

15196767

15005105

16334706

18490129

16289399

11208103

49715017

18932746

18967967

18967966

18968032

NO MET

11208410

18932734

18968033

18967990

18967991

18967988

16289465

11208712

13203712

15218400

108011

43184

108020

95407131

108014

108081

17917506

108017

1500212

108085

108083

108028

16289487

2165885

APN

401190016

401190025

401190025

401190025

401190030

401190041

401200030

401200031

401040011

401040012

401040013

401040014

401040015

401040016

401040017

401040018

401040019

401040020

401040021

401040023

401040024

01040026

40104002

401040030

401040031

401040032

417063002

417063002

417063003

41706300

417056001

417056002

417056003

417056004

417056005

417056006

417056007

417056008

41/056009

417056010

417056011

417056002

ADDRESS

40270 AVENIDA ALTEJO BELLA

40335 AVENIDA ALTEJO BELLA

40335 AVENIDA ALTEJO BELLA

40335 AVENIDA ALTEJO BELLA

9030 WHISPERING PINES RD

9050 WHISPERING PINES RD

40323 AVENIDA ALTEJO BELLA

40277 AVENIDA ALTEJO BELLA

8620 APPLE TREE LN

8600 APPLE TREE LN

8623 APPLE TREE LN

8649 APPLE TREE LN

8675 APPLE TREE LN

8701 APPLE TREE LN

8705 APPLE TREE LN

8717 APPLE TREE LN

8721 APPLE TREE LN

8735 APPLE TREE LN

8821 APPLE TREE LN

8630 APPLE TREE LN

8702 APPLE TREE LN

8708 APPLE TREE LN

8712 APPLE TREE

8746 APPLE TRIE LN

8790 APPLE REE LN

8834 APILE TREE LN

06 APPLE TREE LN

W 6TH ST

299 E 6T

531 GRACE A

500 EGAN AVE

500 EGAN AVE

635 N CALIFORNIA AVE

210 W 6TH ST

252 W 6TH ST

616 EGAN AVE

622 EGAN AVE

636 EGAN AVE

644 EGAN AVE

652 EGAN AVE

207 W 7TH ST

205 W 7TH ST

655 N CALIFORNIA AVE

210 W 6TH ST FIRE

METER NO.

1

2

3

4

5

6

7

8

9

10

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

1. CONTRACTOR SHALL INSTALL NEW WATER MAINS AND TEST AND DISINFECT SAID WATER

2. SHUT DOWN OF EXISTING MATER MAINS TO BE DONE DURING A PERIOD OF LOW DEMAND

[NIGHT OR WINTER] AND SHALL BE SCHEDULED AND COORDINATED WITH DISTRICT

3. CONTRACTOR SHALL SHUT DOWN EXISTING WATER LINE, DE-ENERGIZE AND DRAIN, THEN MAKE CONNECTION BETWEEN NEW AND EXISTING WATERLINES.

4. CONTRACTOR SHALL RE-ENERGIZE AND TEST FINAL CONNECTIONS.

5. CONTRACTOR SHALL REMOVE ALL EXISTING PIPELINE MATERIALS AND APPURTENANCES BETWEEN STA.10+09.69± AND STA. 17+52.86± ALONG EGAN AVE. AS PART OF THESE PLANS.

6. CONTRACTOR TO OVER EXCAVATE AND RE-COMPACT AREA WHERE EXISTING WATER MAINS HAVE BEEN REMOVED

NOTE: FINAL SEQUENCING ACTIVITY AND CONSTRUCTION SCHEDULE SHALL BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO REMOVAL OF EXISTING PIPELINE

EVENT OF DISCREPANCIES ARISING AFTER BCVWD CIVIV

FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE BCVWD. NOTE WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED. 1/15/2021

DIAL TOLL FREE

800) 227-2600

east Two Working Days

ABBREVIATIONS

BEAUMONT CHERRY VALLEY

ABANDONEDABAN

ASSEMBLYASS'Y

AIR VACUUM RELEASE VALVE ..AV/AR

WATER DISTRICTBCVWD

BUTTERFLY VALVEBFV

BACK FLOW PREVENTORBFP

BLOW OFFBO

BOTTOM OF PIPEBOP

DEFLECTION.....DEF

DUCTILE IRON PIPEDIP

ELEVATIONEL

EXISTINGEX

FIRE HYDRANTFH

FLOWLINEFL

FIBER OPTICFO

GATE VALVEGV

GRADE BREAKGB

HORIZONTAL.....HORZ

INVERTINV

IRRIGATION CONTROL VALVE ... ICV

LATERALLAT

MAXIMUMMAX

MECHANICAL JOINTMJ

MINIMUMMIN

NOT TO SCALENTS

PAD ELEVATIONPE

POINT OF INTERSECTIONPI

PAVEMENTPVMT

POLYVINYL CHLORIDEPVC

PROPOSEDPROP

PUBLIC UTILITY EASEMENT ...PUE

RIGHT-OF-WAYR/W

STORM DRAINSD

STATIONSTA

STEELSTL

TEMPORARYTEMP

TELEPHONETEL

TOP OF PIPETOP

SIDEWALKS/W

WATERWTR

UNKNOWN UNK
VITRIFIED CLAY PIPEVCP

LEGEND

WATER SERVICE

BLOWOFF ASSEMBLY

WATER VALVE (GATE)

WATER SAMPLE STATION

EXISTING FIRE HYDRANT

EXISTING STORM DRAIN

EXISTING FIBER OPTIC

PROPOSED STORM DRAIN

WATER TEE

BOLLARD

FIRE HYDRANT

EXISTING WATER

EXISTING FENCE

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

RIGHT-OF-WAY

PROPERTY LINE

THRUST BLOCK

PAVING

FUTURE IMPROVEMENTS

PUBLIC UTILITY EASEMENT

CONCRETE REPLACEMENT

HE PRIVATE ENGINEER SIGNING THESE PLANS I

ACCEPTABILITY OF THE DESIGN HEREON. IN THI

APPROVAL OR DURING CONSTRUCTION, THE

PRIVATE ENGINEER SHALL BE RESPONSIBLE

DIGALERT

RESPONSIBLE FOR ASSURING THE ACCURACY AND

EDGE OF PAVEMENT

CROSSINGX-ING

AIR VACUUM RELEASE ASSEMBLY (AVR) ◀

____DW___

= =SD = =

— —F0— —

—— S ——

===SD===

——SS——

—— W ——

Þ04

SEWERSEWER

FLANGEDFLG

CENTERLINEQ

ASPHALTIC CONCRETE....AC

CONSTRUCTION NOTES

FITTINGS PER BCVWD PLATE 1

6) INSTALL 8" 90° BEND, RESTRAINED

7) INSTALL 8" 45° BEND, RESTRAINED

(8) INSTALL 8" 22.5° BEND, RESTRAINED

0) INSTALL 8"x4" ECCENTRIC REDUCER

1) INSTALL 8"x4" FLANGED TEE

16) INSTALL 8" FLANGED TEE

BUILDING FIRE RISER.

(28) INSTALL 10"x8" FLANGED TEE

)|INSTALL 6" FLANGED TEE

32)|INSTALL 6" 45° BEND, RESTRAINED

3)|INSTALL 4" 45° BEND, RESTRAINED

41) INSTALL STEEL FLG x PE SPOOL PIECE

(44)|INSTALL 4" DIP 90° BEND FLG×MJ

(46) INSTALL 4" DIP SPOOL FLGxFLG

42)|INSTALL VALVE CAN PER BCVWD PLATE 2

(45) INSTALL 2" BALL VALVE WITH THREADED PLUG

QUANTITIES SHOWN ARE ESTIMATES

RESPONSIBLE FOR PREPARING HIS

ONLY. THE CONTRACTOR IS

PIPELINES ARE IN SERVICE

MIN COVER)

7) INSTALL 8" BLIND FLANGE

18) INSTALL 8"x6" FLANGED TEE

20) INSTALL 8"x6" ECCENTRIC REDUCER

24)TRENCHING, BACKFILLING AND COMPACTION

25)|ASPHALT AND CONCRETE REMOVAL AND REPLACEMENT

(26) INSTALL SLIP ON FLANGE PER DETAIL 2 SHEET 13

29)|INSTALL 8" FLG×MJ GATE VALVE PER BCVWD PLATE 2

30)|INSTALL 6" FLANGED GATE VALVE PER BCVWD PLATE 2

7)INSTALL DIELECTRIC INSULATING FLANGE PER DETAIL 3 SHEET 13

INSTALL THREADED CAP ON ANGLE STOP. DO NOT INSTALL METER

9)REMOVE EX 4" (STEEL) PRIOR TO INSTALLATION OF NEW 8" (DIP)

(40)|INSTALL FLEXIBLE COUPLING WITH TIE PER BCVWD PLATE 9

43)|INSTALL CARSON BROOKS MODEL 1419-12 METER BOX

|(47)|INSTALL 4" DIP BLIND FLANGE TAPPED WITH 2" F.I.P.T.

9) INSTALL 8" 11.25° BEND, RESTRAINED

(14)|INSTALL 8" FLGxMJ ADAPTER. RESTRAINED

MIN COVER)

MIN COVER)

SERVICES.

1)INSTALL 8" DUCTILE IRON PIPE (CLASS 350) AND BEDDING PER BCVWD PLATE 6-1 (36"

3)INSTALL TYPE JONES 3765 WET BARREL FIRE HYDRANT ASSEMBLY INCLUDING VALVE AND

5)INSTALL BLOW OFF ASSEMBLY AT LOCATIONS SHOWN ON PLAN PER DETAIL 6 SHEET 13

15)|INSTALL 4" DUCTILE IRON PIPE (CLASS 350) AND BEDDING PER BCVWD PLATE 6-1 (36"

9)INSTALL BOLLARD AT LOCATIONS SHOWN ON PLAN PER DETAIL 4 SHEET 13

21)INSTALL 2"COPPER SERVICE LINE, PER BCVWD PLATE 6-2, 6-4 AND PLATE 12

22)INSTALL 2" TEMPORARY BYPASS HIGH-LINE AND PROVIDE TEMPORARY CONNECTIONS TO ALL

3)INSTALL 2" TEMPORARY BYPASS HIGH-LINE FOR DEDICATED SERVICE TO THE EXISTING

4) REMOVE EXISTING WATER APPURTENANCES AFTER CONSTRUCTION IS COMPLETE AND NEW WATER

5)|INSTALL 2" COPPER SERVICE LINE AND METER BOX PER BCVWD PLATE 6-4 AND PLATE 12.

|(38)|INSTALL 24" STEEL CASING PER CVWD IRRIGATION DETAIL I-40 AND 1-40A. SEE SHEET 14 |

|(36)|INSTALL 6" DUCTILE IRON PIPE (CLASS 350) AND BEDDING PER BCVWD PLATE 6-1 (36"

7)|INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2, SEE GENERAL NOTE 6

2) INSTALL 1" COPPER SERVICE LINE, TYPE K, PER BCVWD PLATE 6-2 AND 6-3

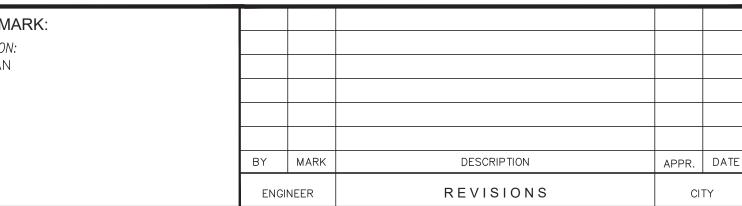
(4)INSTALL 2" AIR AND VACUUM ASSEMBLY PER BCVWD PLATE 5-1

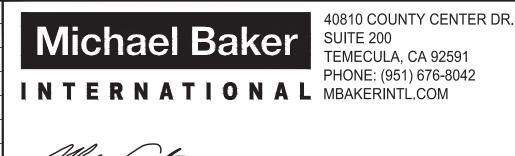
12) INSTALL 8" FLANGED GATE VALVE PER BCVWD PLATE 2

3) INSTALL 4" FLANGED GATE VALVE PER BCVWD PLATE 2

DESCRIPTION: , NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE ETWEEN CORS P584 AND MLFP BEING 184-41-07.39W AS DERIVED FROM AND/OR NGS, RESPECTIVELY. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: CALIFORNIA COORDINATE SYSTEM, ZONE SEODETIC VALUES PUBLISHED BY CSRC





DRAWN BY: JDC, CHECKED BY: PER PL

BEAUMONT - CHERRY VALLEY WATER DISTRICT Riverside County, California FOR BID **PURPOSES ONLY**

District Engineer

R.C.E. No. 72332

WATER PIPELINE REPLACEMENT PROJECTS MARK SWANSON

GENERAL NOTES * QUANTITIES

BCVWD

MS0483 / IP200048

CITY OF BEAUMONT, CALIFORNIA

ш njje

PSF. THICK ASPHALT. **BENCHMARK:** DESCRIPTION: PER PLAN

NOV. 20 DATE: 1/15/2021 OB NUMBER: R.C.E. 87843

METER SIZE | CONSTRUCTION NOTES

5/8"

5/8"

5/8"

1"

5/8"

1"

1"

3/4"

1"

3/4"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

5/8"

3/4"

TWO LANE STREET

FIGURE 2

= BLUE PAVEMENT MARKER

► FIRE HYDRANT

TYPICAL PAVEMENT MARKER

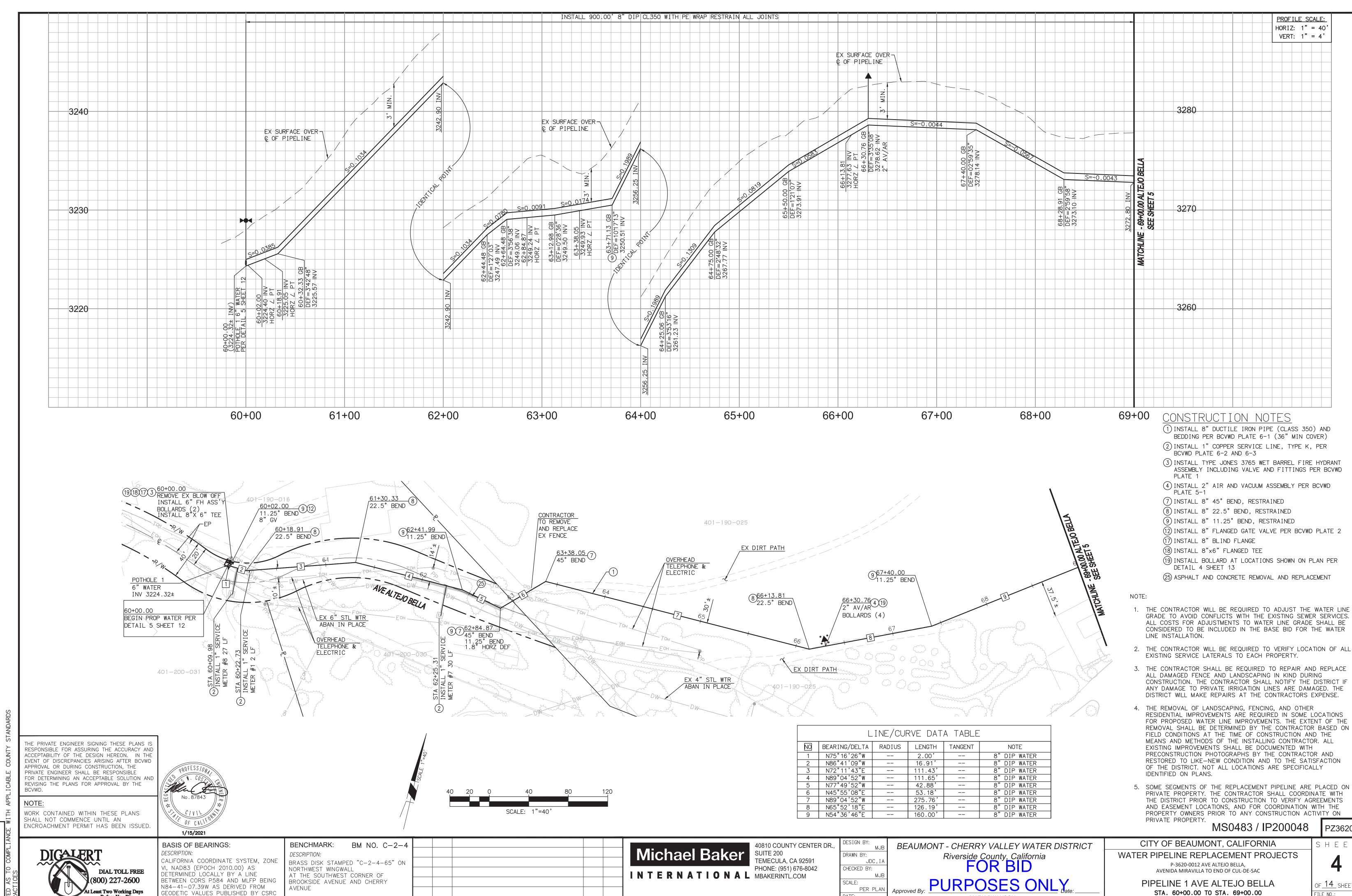
LOCATION-DETAIL "A"

AN INTERSECTION

- 14 SHEE LE NO.:

HEE

969X



DESCRIPTION

REVISIONS

DATUM = NGVD 29

ELEV. = 2758.083'

APPR. DATE

PZ3620

HEE

F 14 SHEET

969X

[LE NO.:

A PORTION OF SECTIONS 22 & 23, T.2 S., R.1 W., S.B.M.

BCVWD

MARK SWANSON

District Engineer

R.C.E. No. 72332

NOV. 201

JOB NUMBER:

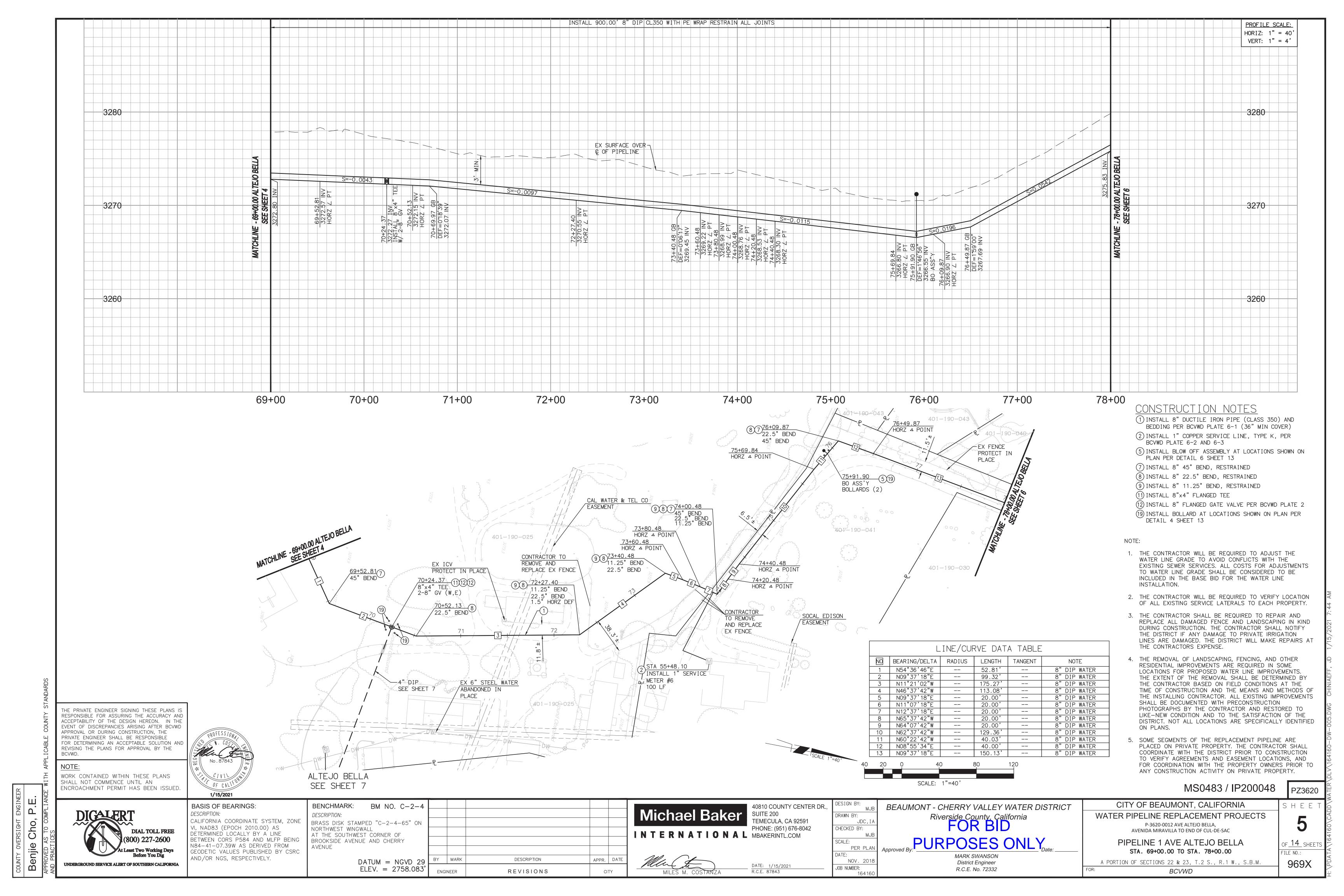
DATE: 1/15/2021

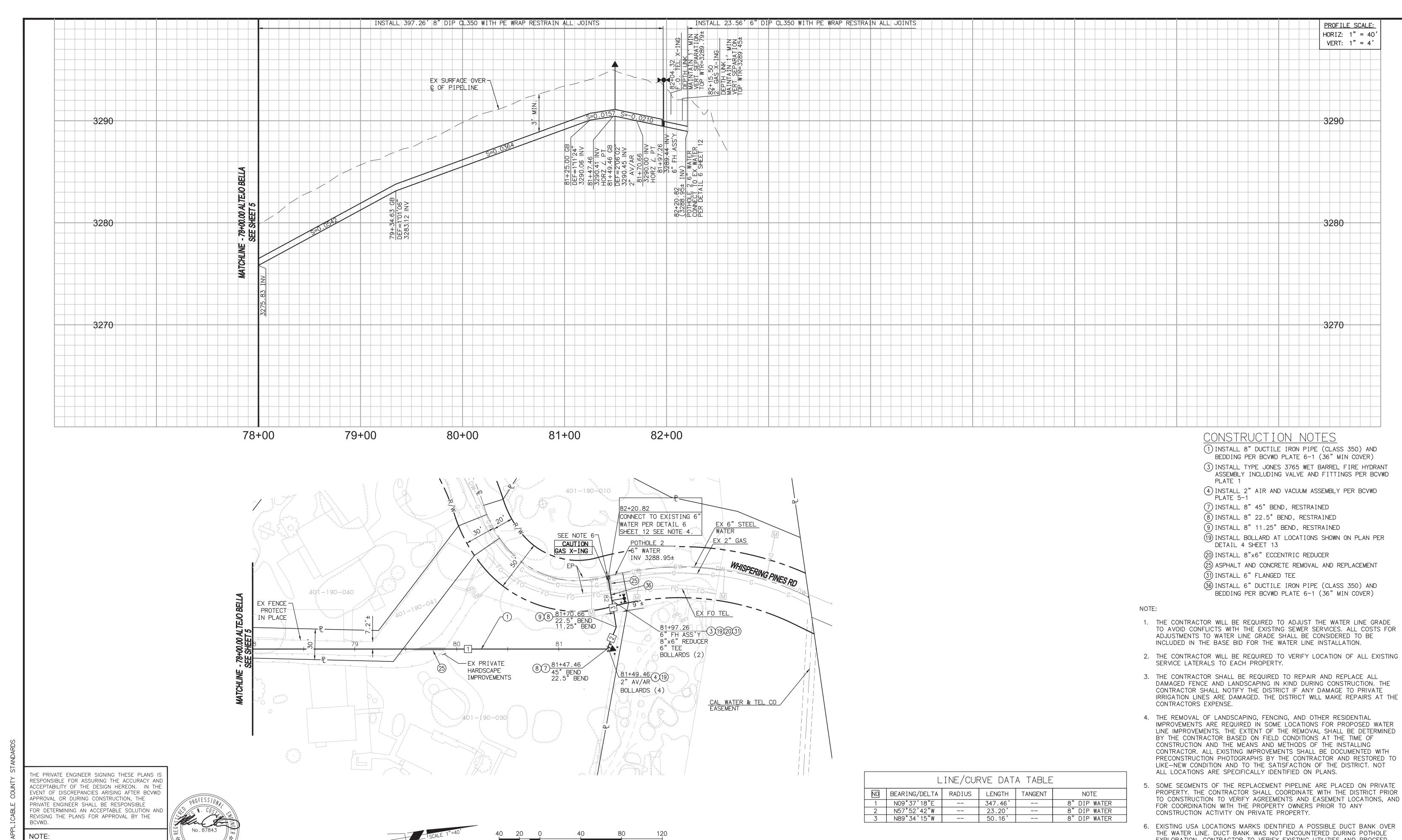
R.C.E. 87843

njie

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AND/OR NGS, RESPECTIVELY.





Jjie

DICALERT DIAL TOLL FREE (800) 227-2600 Least Two Working Days UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

WORK CONTAINED WITHIN THESE PLANS

ENCROACHMENT PERMIT HAS BEEN ISSUED.

SHALL NOT COMMENCE UNTIL AN

DESCRIPTION: , NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE 184-41-07.39W AS DERIVED FROM AND/OR NGS, RESPECTIVELY.

1/15/2021

BASIS OF BEARINGS: CALIFORNIA COORDINATE SYSTEM, ZONE ETWEEN CORS P584 AND MLFP BEING GEODETIC VALUES PUBLISHED BY CSRC

BENCHMARK: BM NO. C-2-4DESCRIPTION: BRASS DISK STAMPED "C-2-4-65" ON NORTHWEST WINGWALL AT THE SOUTHWEST CORNER OF BROOKSIDE AVENUE AND CHERRY AVENUE DATUM = NGVD 29 BY MARK ELEV. = 2758.083

DESCRIPTION APPR. DATE REVISIONS

SCALE: 1"=40'

Michael Baker TEMECULA, CA 92591 INTERNATIONAL MBAKERINTL.COM DATE: <u>1/15/2021</u>

40810 COUNTY CENTER DR. DRAWN BY: JDC, PHONE: (951) 676-8042 CHECKED BY: SCALE: PER PL/

R.C.E. 87843

NOV. 2018

JOB NUMBER:

BEAUMONT - CHERRY VALLEY WATER DISTRICT

Riverside County, California
FOR BID Approved By: PURPOSES ONLY Date:

MARK SWANSON

District Engineer

R.C.E. No. 72332

CITY OF BEAUMONT, CALIFORNIA WATER PIPELINE REPLACEMENT PROJECTS

WITH CAUTION.

P-3620-0012 ALTEJO BELLA, AVENIDA MIRAVILLA TO END OF CUL-DE-SAC

PIPELINE 1 ALTEJO BELLA

EXPLORATION. CONTRACTOR TO VERIFY EXISTING UTILITIES AND PROCEED

STA. 78+00.00 TO STA. 82+20.82 A PORTION OF SECTIONS 22 & 23, T.2 S., R.1 W., S.B.M.

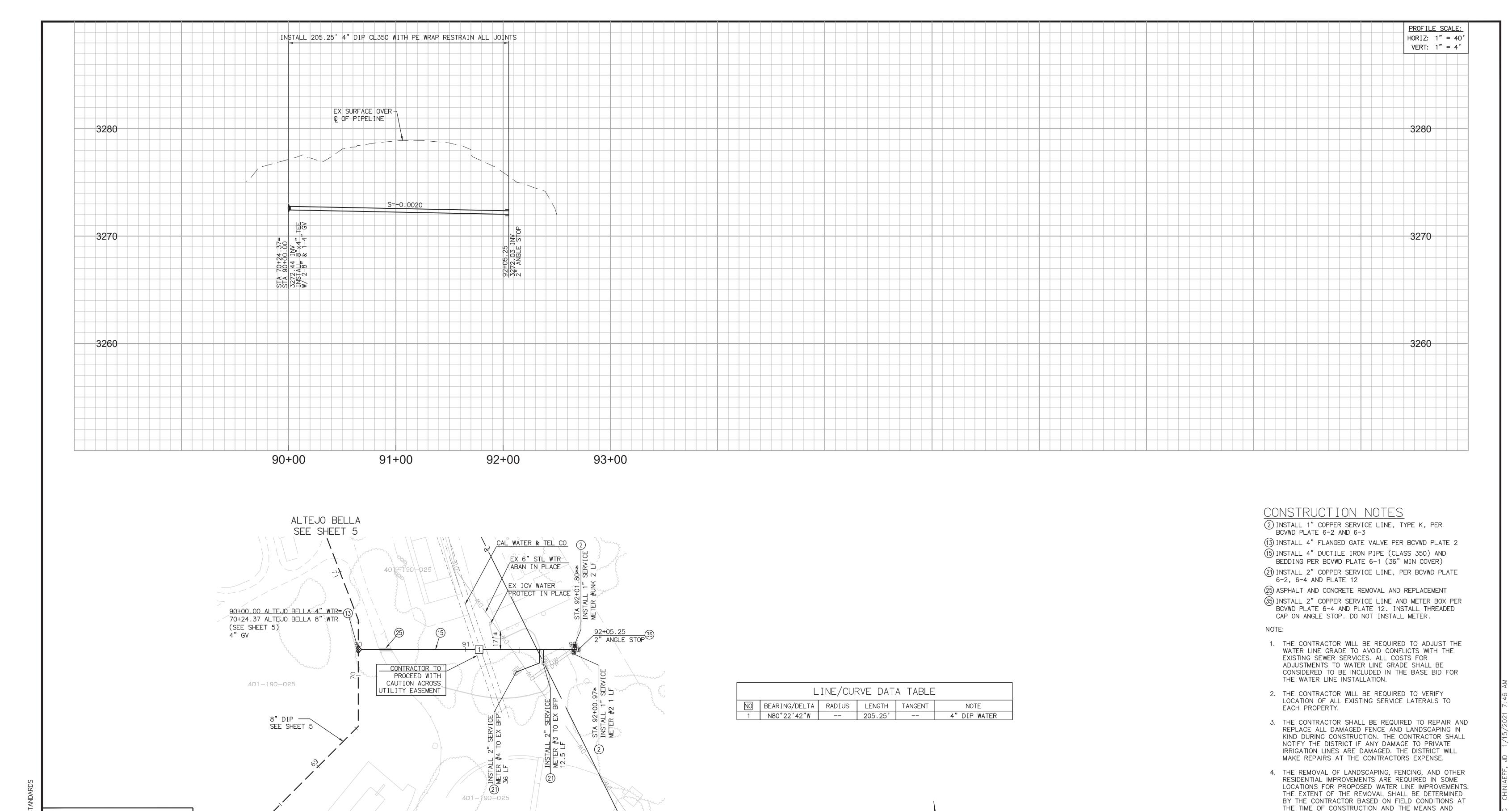
BCVWD

MS0483 / IP200048

)F <u>14</u> SHEET [LE NO.: 969X

PZ3620

HEE



THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER BCVWD APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE BCVWD. NOTE:

WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ENCROACHMENT PERMIT HAS BEEN ISSUED. 1/15/2021 DICALERT

BASIS OF BEARINGS: DESCRIPTION: CALIFORNIA COORDINATE SYSTEM, ZONE , NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE ETWEEN CORS P584 AND MLFP BEING 184-41-07.39W AS DERIVED FROM GEODETIC VALUES PUBLISHED BY CSRC AND/OR NGS, RESPECTIVELY.

ALTEJO BELLA

SEE SHEET 5

BENCHMARK: BM NO. C-2-4BRASS DISK STAMPED "C-2-4-65" ON NORTHWEST WINGWALL AT THE SOUTHWEST CORNER OF BROOKSIDE AVENUE AND CHERRY AVENUE DATUM = NGVD 29 BY MARK

DESCRIPTION APPR. DATE ELEV. = 2758.083REVISIONS

* PER THE DISTRICT'S DATA, THIS METER IS IN THE

HOWEVER, THE TRUE LOCATION OF THIS METER IS

PARCEL DISPLAYED IN THE PLAN VIEW (ABOVE).

** THE METER NUMBER IS UNKNOWN. PER THE SURVEY,

VIEW (ABOVE). CONTRACTOR TO FIELD VERIFY.

A METER WAS IDENTIFIED AS SHOWN IN THE PLAN

UNKNOWN. CONTRACTOR TO FIELD VERIFY.

40810 COUNTY CENTER DR. Michael Baker INTERNATIONAL MBAKERINTL.COM

TEMECULA, CA 92591 PHONE: (951) 676-8042

DRAWN BY: JDC, CHECKED BY: SCALE: PER PL/

BEAUMONT - CHERRY VALLEY WATER DISTRICT Riverside County, California FOR BID

MARK SWANSON

MS0483 / IP200048

CITY OF BEAUMONT, CALIFORNIA

ACTIVITY ON PRIVATE PROPERTY.

WATER PIPELINE REPLACEMENT PROJECTS P-3620-0012 AVE ALTEJO BELLA, AVENIDA MIRAVILLA TO END OF CUL-DE-SAC

METHODS OF THE INSTALLING CONTRACTOR. ALL

ARE SPECIFICALLY IDENTIFIED ON PLANS.

EXISTING IMPROVEMENTS SHALL BE DOCUMENTED WITH

AND RESTORED TO LIKE-NEW CONDITION AND TO THE

SATISFACTION OF THE DISTRICT. NOT ALL LOCATIONS

5. SOME SEGMENTS OF THE REPLACEMENT PIPELINE ARE

PLACED ON PRIVATE PROPERTY. THE CONTRACTOR

SHALL COORDINATE WITH THE DISTRICT PRIOR TO

PROPERTY OWNERS PRIOR TO ANY CONSTRUCTION

LOCATIONS, AND FOR COORDINATION WITH THE

CONSTRUCTION TO VERIFY AGREEMENTS AND EASEMENT

PRECONSTRUCTION PHOTOGRAPHS BY THE CONTRACTOR

PIPELINE 1 AVE ALTEJO BELLA

STA. 90+00.00 TO STA. 92+05.25 A PORTION OF SECTIONS 22 & 23, T.2 S., R.1 W., S.B.M.

[LE NO.: **BCVWD**

969X

PZ3620

HEE

)F <u>14</u> SHEET!

enjie

DIAL TOLL FREE (800) 227-2600 Least Two Working Days

DESCRIPTION:

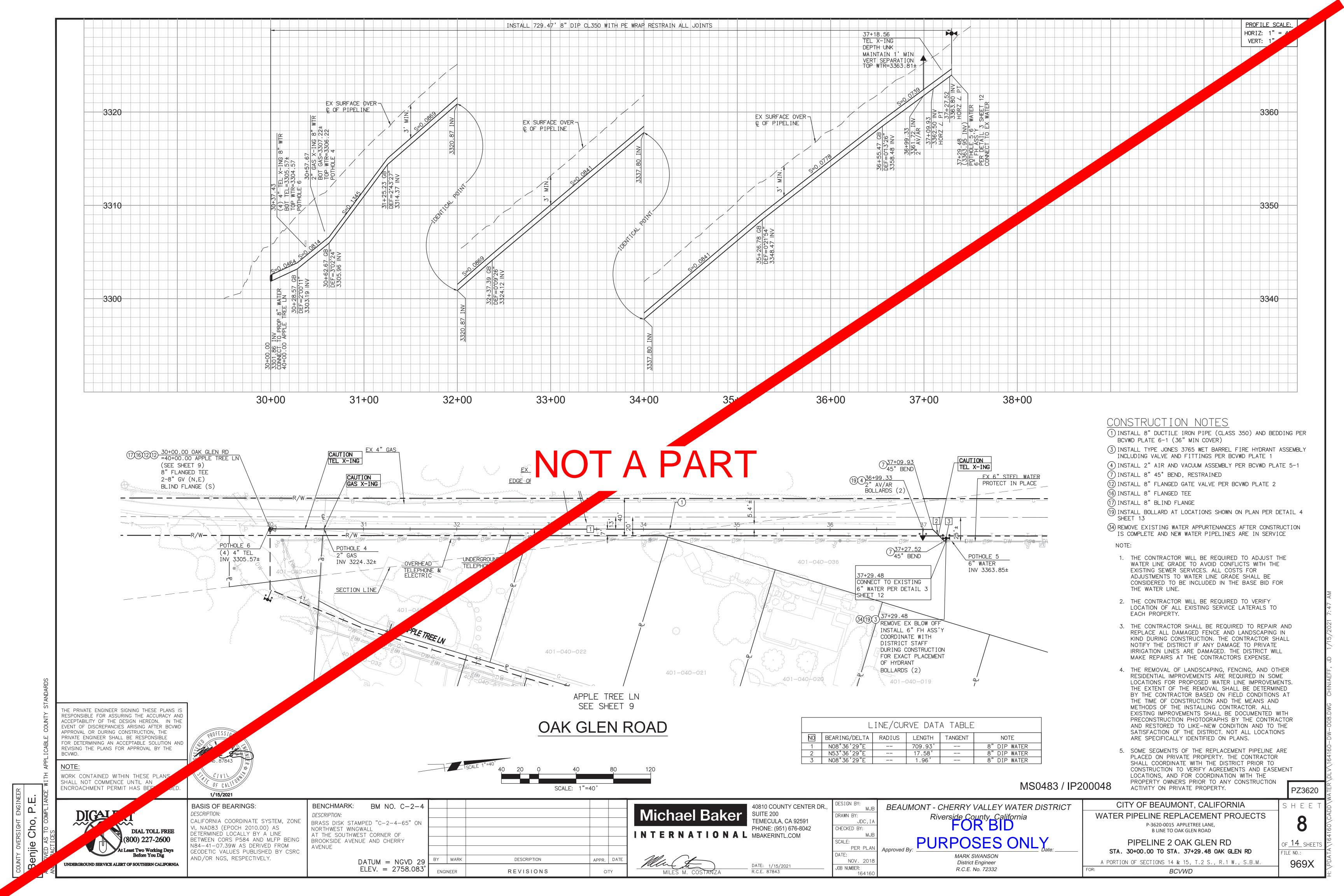
DATE: <u>1/15/2021</u> R.C.E. 87843

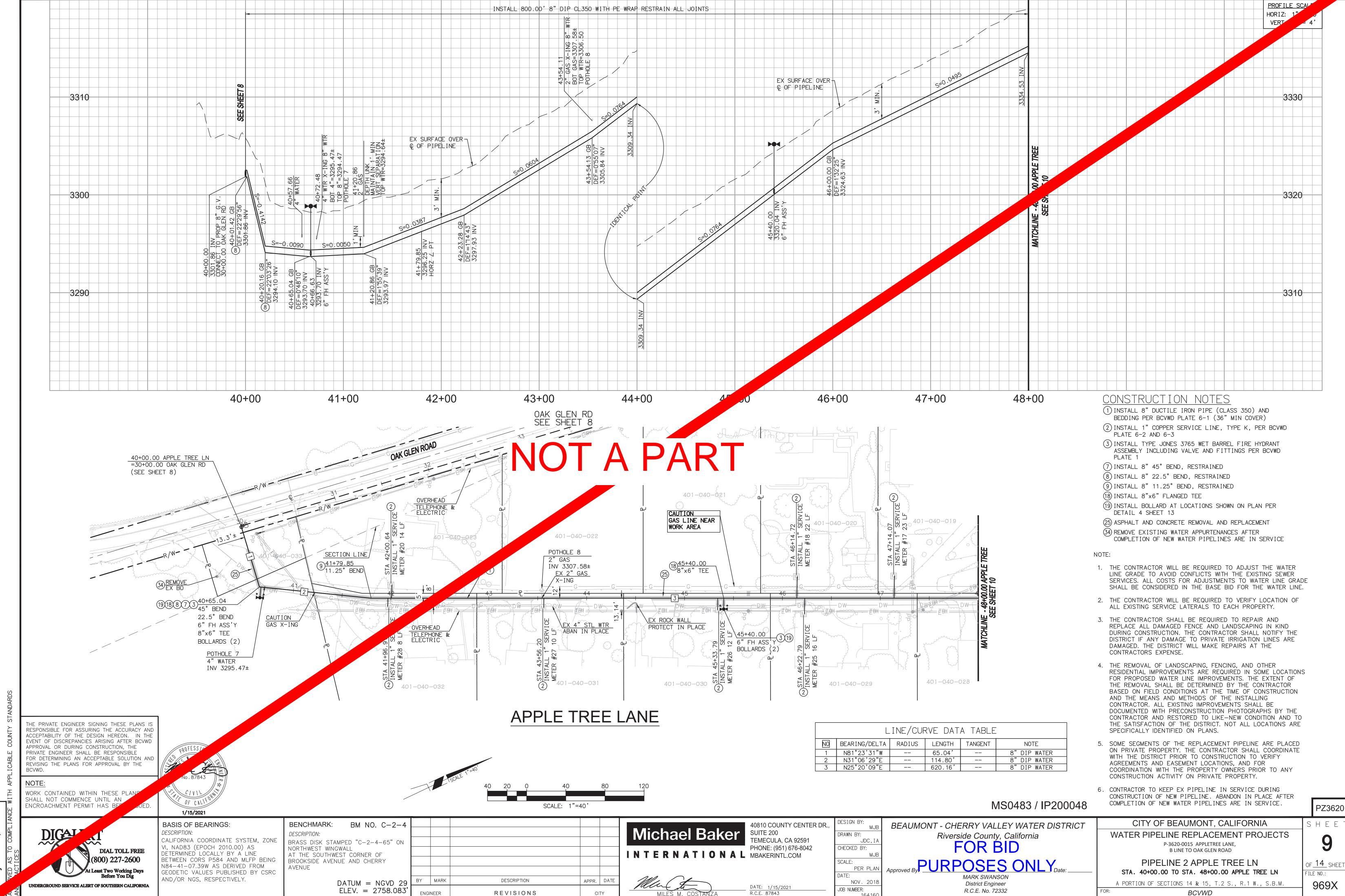
NOV. 2018 JOB NUMBER:

PURPOSES ONLY

SCALE: 1"=40'

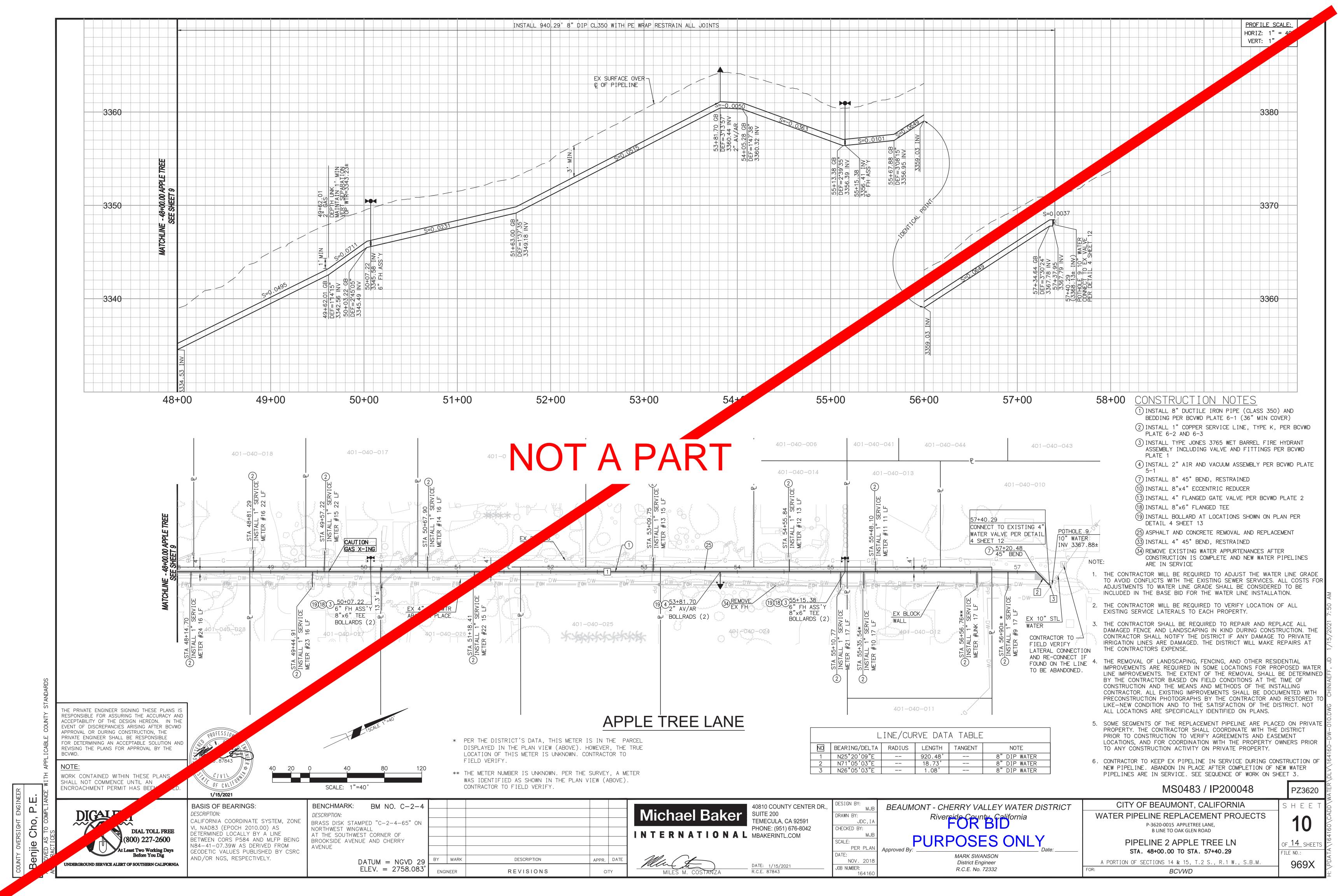
District Engineer R.C.E. No. 72332

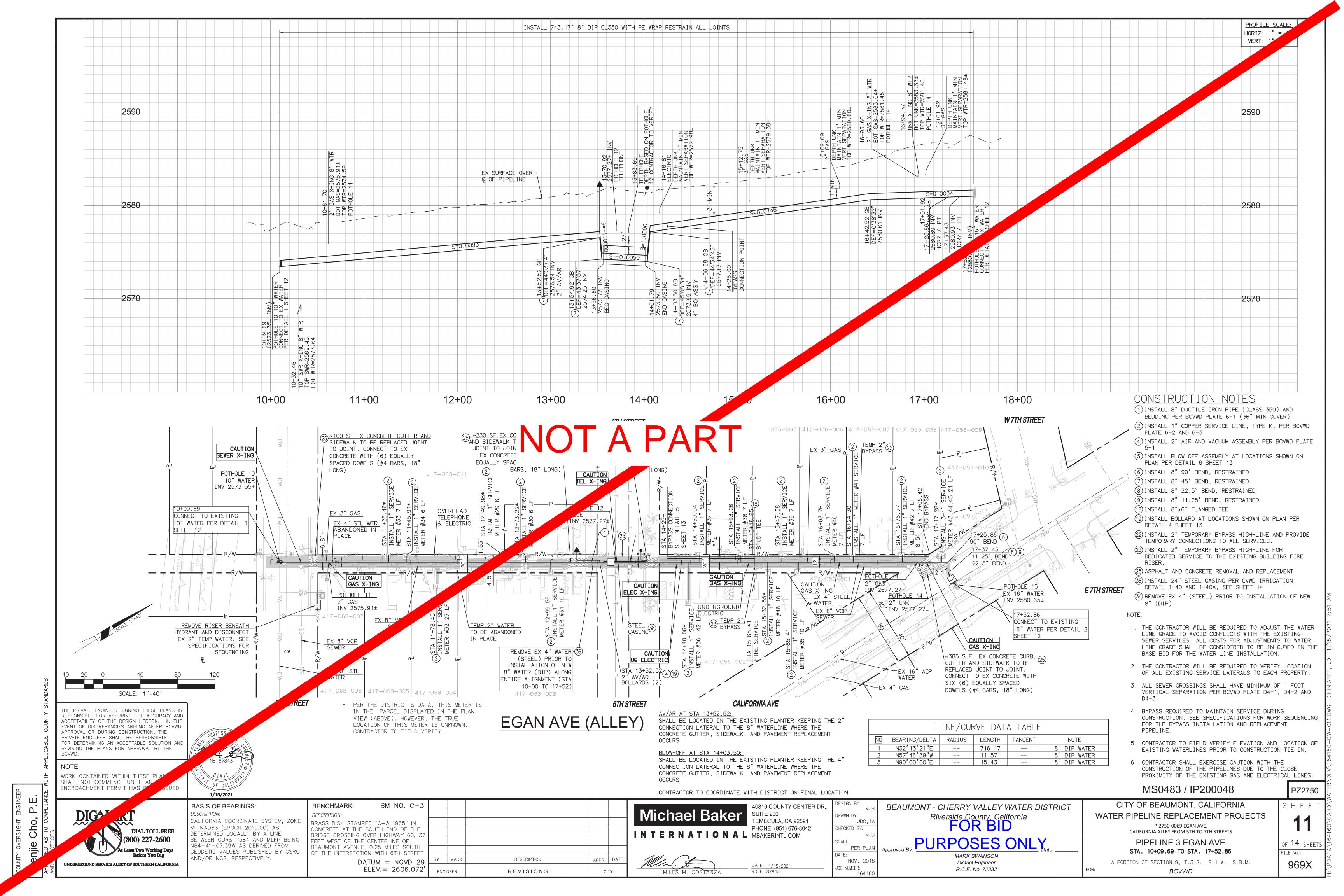


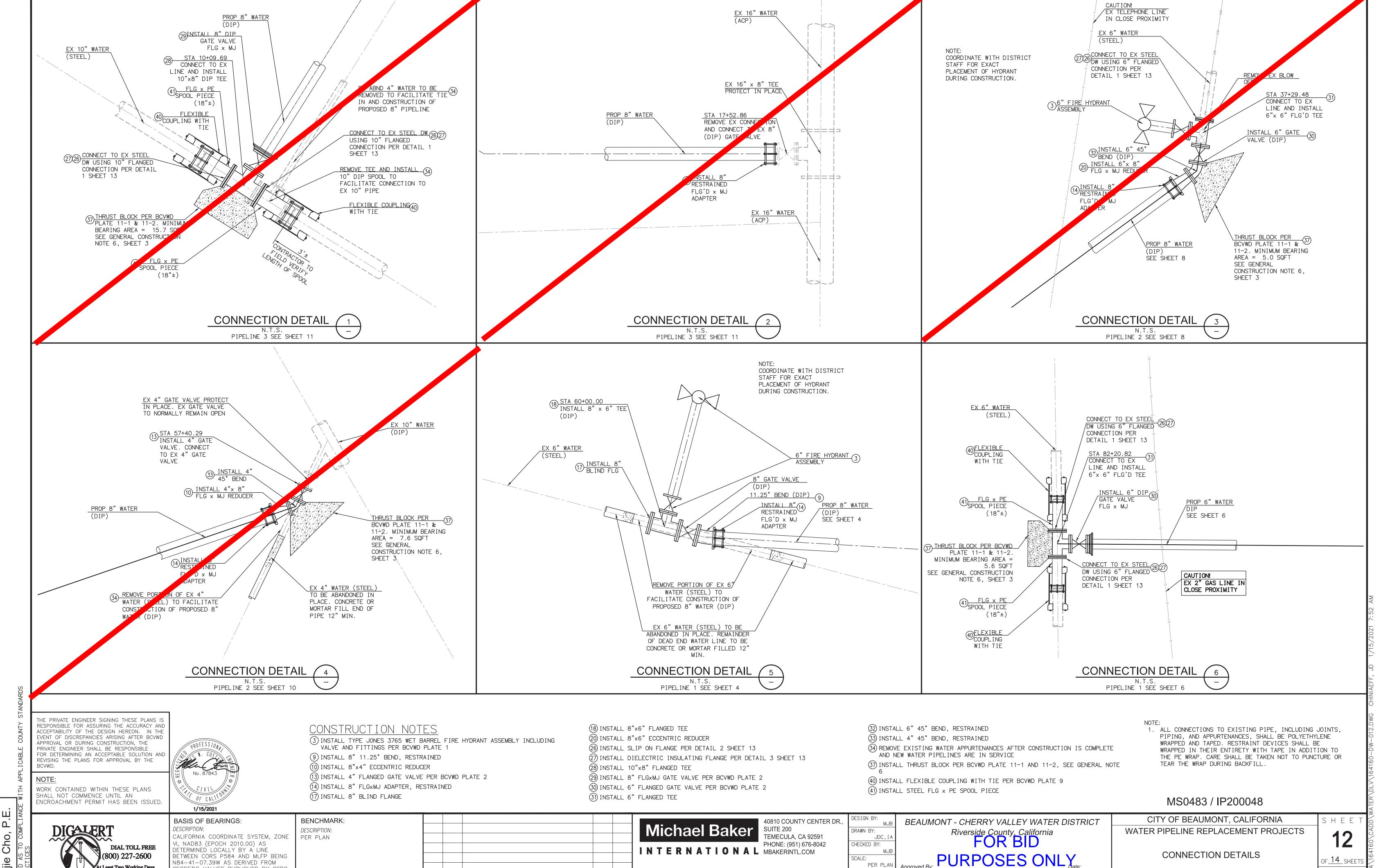


ij

NTY OVERSIGHT ENGINEER Senjie Cho, P.E.







[LE NO.:

BCVWD

969X

MARK SWANSON

District Engineer

R.C.E. No. 72332

NOV. 2018

JOB NUMBER:

DATE: 1/15/2021

R.C.E. 87843

Benjie

east Two Working Days

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

GEODETIC VALUES PUBLISHED BY CSRC

BY MARK

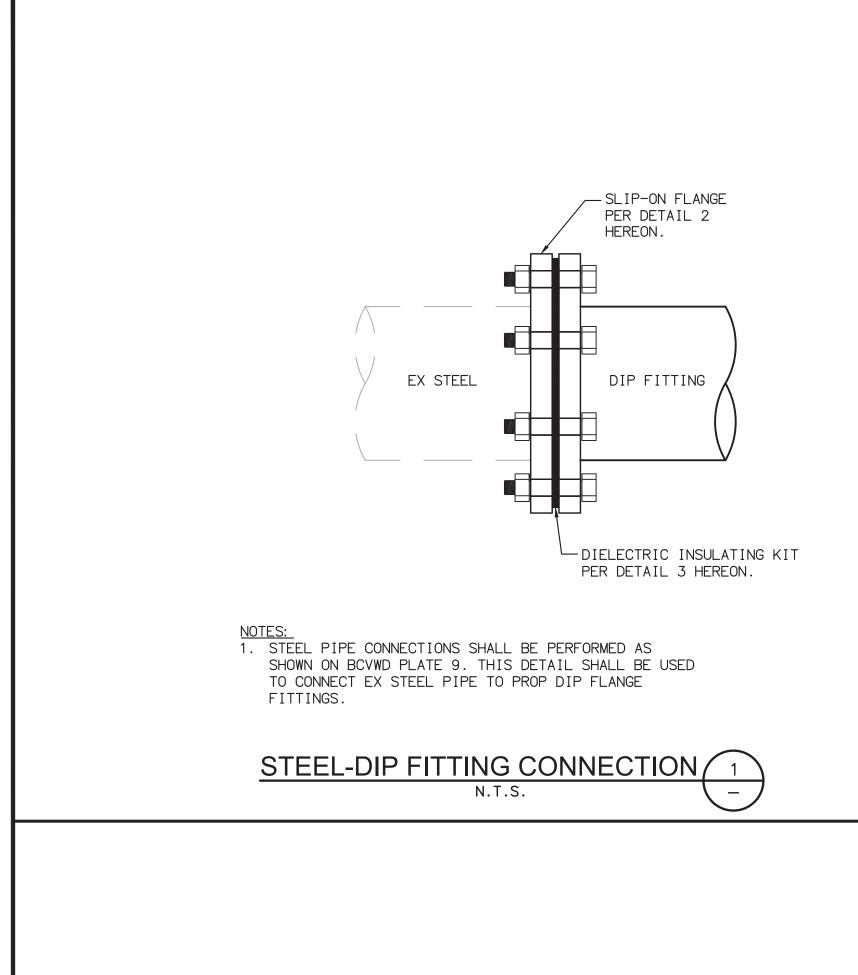
ENGINEER

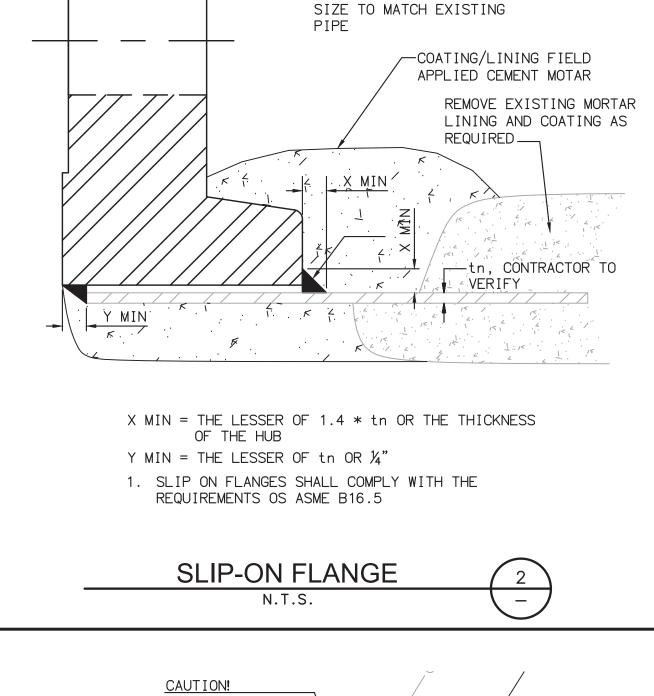
DESCRIPTION

REVISIONS

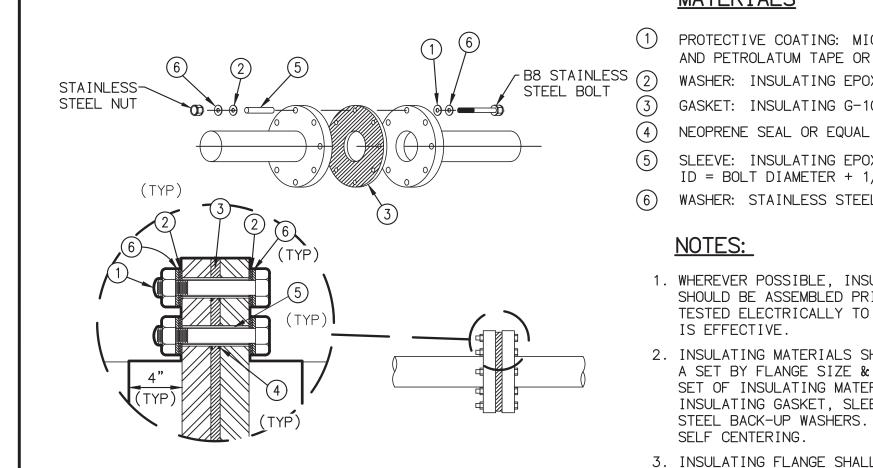
APPR. DATE

AND/OR NGS, RESPECTIVELY.





-AMSE/ANSI SLIP-ON FLANGE.



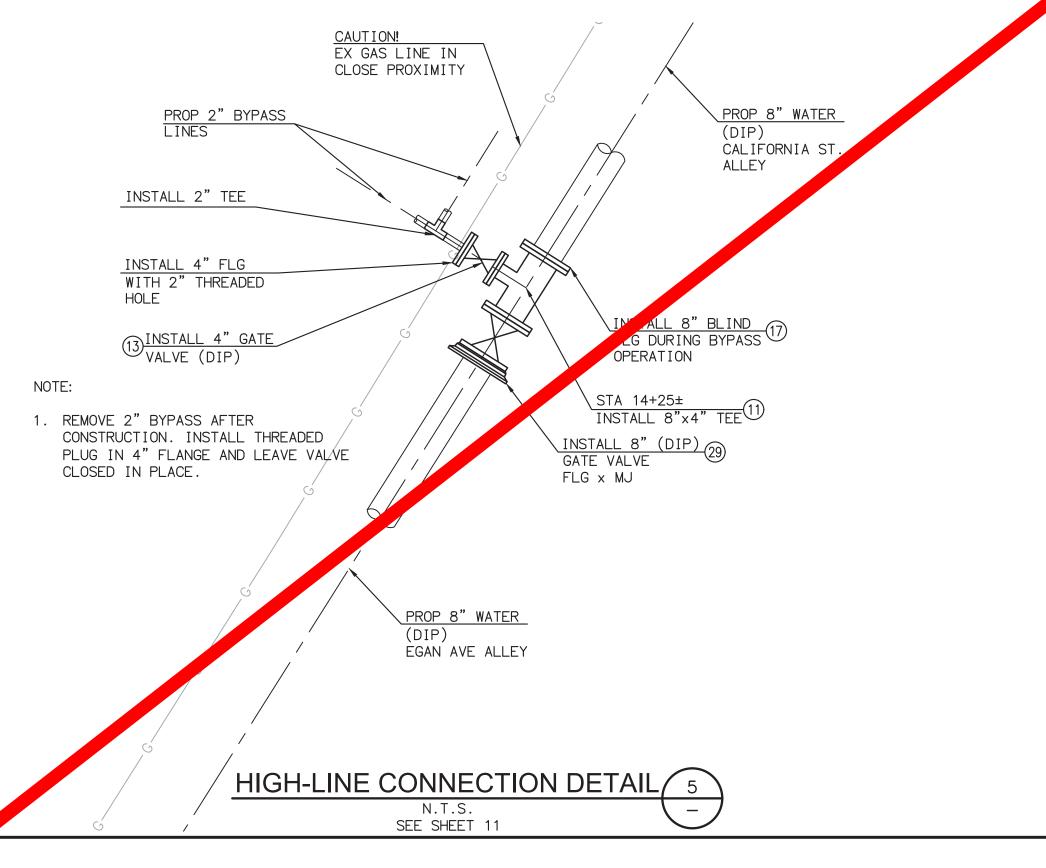
MATERIALS

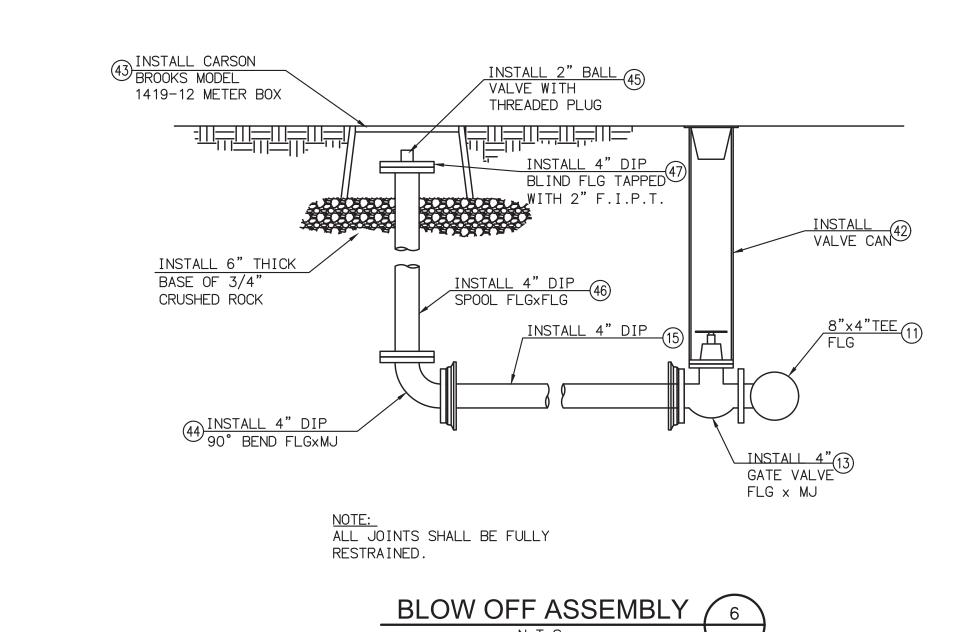
- 1) PROTECTIVE COATING: MICROCRYSTALLINE WAX AND PETROLATUM TAPE OR APPROVED EQUAL. B8 STAINLESS (2) WASHER: INSULATING EPOXY GLASS
 - (3) GASKET: INSULATING G-10 GASKET
 - (5) SLEEVE: INSULATING EPOXY GLASS 1/32" THICK.
 - ID = BOLT DIAMETER + 1/64" (6) WASHER: STAINLESS STEEL 1/8" THICK

NOTES:

- 1. WHEREVER POSSIBLE, INSULATING FLANGE ASSEMBLIES SHOULD BE ASSEMBLED PRIOR TO INSTALLATION & TESTED ELECTRICALLY TO ENSURE THAT INSULATING IS EFFECTIVE.
- 2. INSULATING MATERIALS SHOULD BE ORDERED AS A SET BY FLANGE SIZE & FLANGE RATING. ONE SET OF INSULATING MATERIALS INCLUDES G-10 INSULATING GASKET, SLEEVES & WASHERS AND STEEL BACK-UP WASHERS. GASKET SHALL BE SELF CENTERING.
- 3. INSULATING FLANGE SHALL BE TESTED PER NACE SP0286 PRIOR TO BACKFILL.







THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER BCVWD APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE BCVWD.

6" DIA. SCH 40

STEEL PIPE

NOTE:

WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.



CONSTRUCTION NOTES

11) INSTALL 8"x4" FLANGED TEE

(13) INSTALL 4" FLANGED GATE VALVE PER BCVWD PLATE 2

(15)INSTALL 4" DUCTILE IRON PIPE (CLASS 350) AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)

(17) INSTALL 8" BLIND FLANGE

(29) INSTALL 8" FLGxMJ GATE VALVE PER BCVWD PLATE 2

(42) INSTALL VALVE CAN PER BCVWD PLATE 2

(43) INSTALL CARSON BROOKS MODEL 1419-12 METER BOX

(44) INSTALL 4" DIP 90° BEND FLG×MJ

(45)INSTALL 2" BALL VALVE WITH THREADED PLUG

(46) INSTALL 4" DIP SPOOL FLGxFLG

(47) INSTALL 4" DIP BLIND FLANGE TAPPED WITH 2" F.I.P.T.

1. ALL CONNECTIONS TO EXISTING PIPE, INCLUDING JOINTS, PIPING, AND APPURTENANCES, SHALL BE POLYETHYLENE WRAPPED AND TAPED. RESTRAINT DEVICES SHALL BE WRAPPED IN THEIR ENTIRETY WITH TAPE IN ADDITION TO THE PE WRAP. CARE SHALL BE TAKEN NOT TO PUNCTURE OR

MS0483 / IP200048

CITY OF BEAUMONT, CALIFORNIA WATER PIPELINE REPLACEMENT PROJECTS

TEAR THE WRAP DURING BACKFILL

DETAILS

[LE NO.:

BCVWD

DIAL TOLL FREE (800) 227-2600 east Two Working Days UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: DESCRIPTION: CALIFORNIA COORDINATE SYSTEM, ZONE I, NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE ETWEEN CORS P584 AND MLFP BEING 184-41-07.39W AS DERIVED FROM GEODETIC VALUES PUBLISHED BY CSRC AND/OR NGS, RESPECTIVELY.

DESCRIPTION BY MARK APPR. DATE ENGINEER REVISIONS

40810 COUNTY CENTER DR. Michael Baker TEMECULA, CA 92591 PHONE: (951) 676-8042 INTERNATIONAL MBAKERINTL.COM

SCALE:

PER PLA NOV. 2018

JDC, I

Riverside County Galifornia **PURPOSES ONLY** Approved By:

BEAUMONT - CHERRY VALLEY WATER DISTRICT

MARK SWANSON District Engineer R.C.E. No. 72332

F 14 SHEET

Cho, njje

! | Ш

1/15/2021

- EPOXY PRIMER WITH POLYURETHANE TOP

CONCRETE

FOUNDATION

COATING. COLOR PER DISTRICT

SELECTION.

BOLLARD DETAIL

- FINISHED GRADE

BENCHMARK: DESCRIPTION: PER PLAN

1. CONCRETE FOOTING TO BE POURED AGAINST

EQUALLY SPACED ON EACH SIDE OF

DIRECTED BY THE DISTRICT.

2. THE NUMBER AND LOCATION OF POSTS ARE TO BE

MINIMUM OF 3' FROM FIRE HYDRANTS AND 2' FROM AV/AR OR AS SHOWN ON PLANS OR AS

APPURTENANCES TO BE PROTECTED WITH A

UNDISTURBED SOIL

DATE: 1/15/2021 R.C.E. 87843

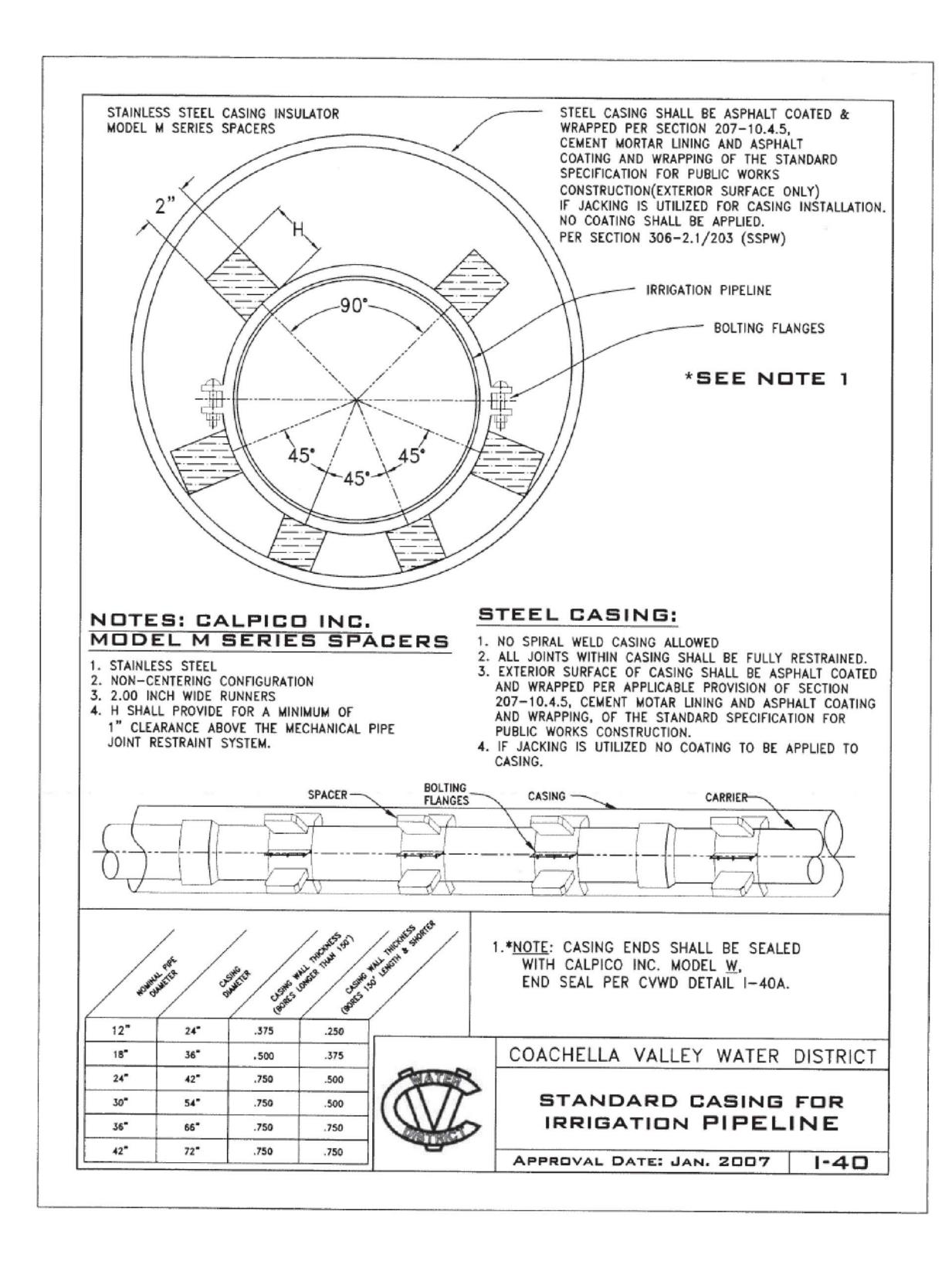
JOB NUMBER:

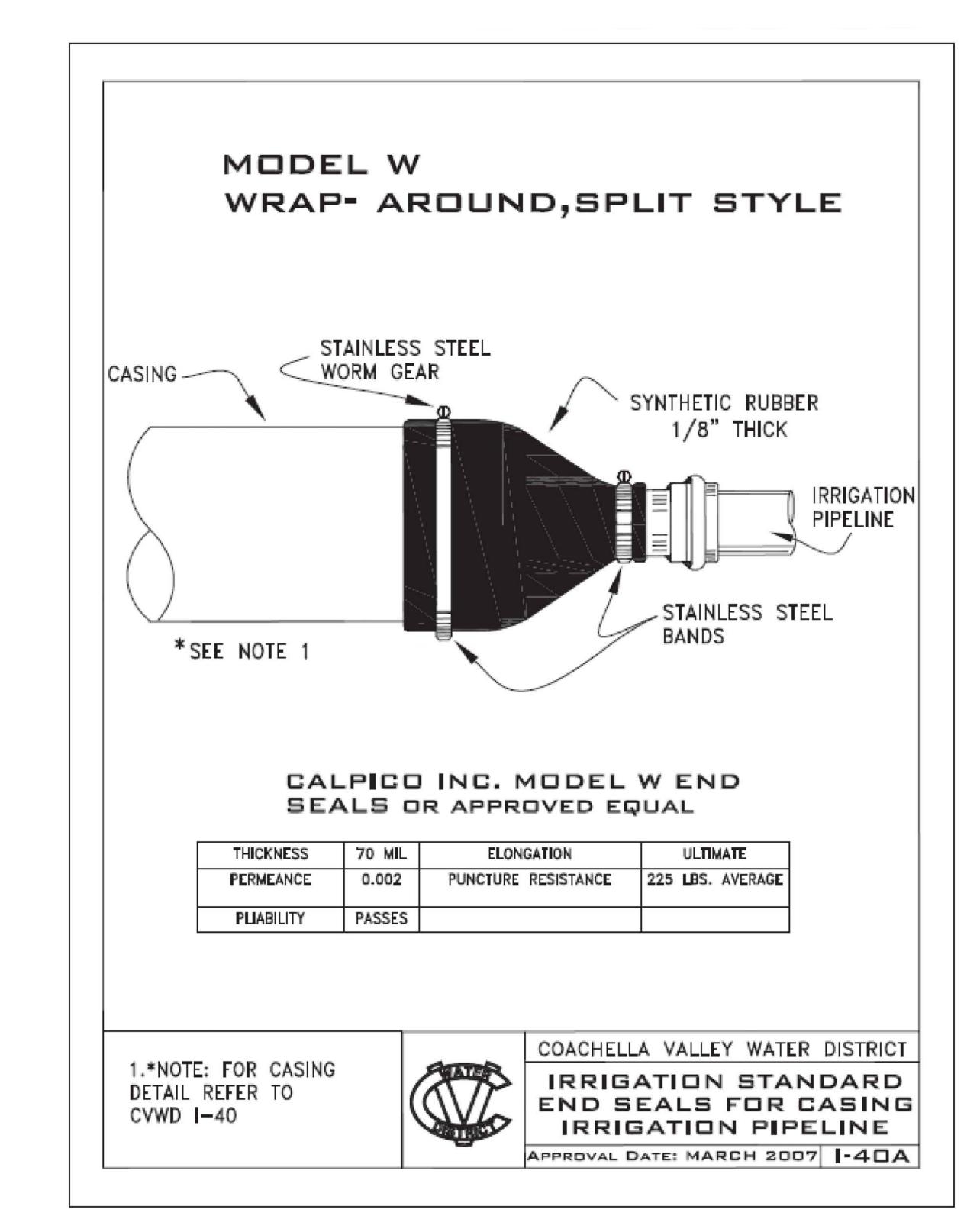
DRAWN BY:

CHECKED BY:

SHEE

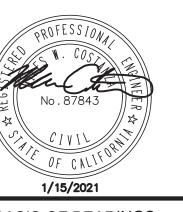
969X





HE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER BCVWD APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE

WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.



DIAL TOLL FREE east Two Working Days UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: CALIFORNIA COORDINATE SYSTEM, ZONE I, NAD83 (EPOCH 2010.00) AS ETERMINED LOCALLY BY A LINE ETWEEN CORS P584 AND MLFP BEING 184-41-07.39W AS DERIVED FROM GEODETIC VALUES PUBLISHED BY CSRC AND/OR NGS, RESPECTIVELY.

BENCHMARK: DESCRIPTION: DESCRIPTION BY MARK APPR. DATE REVISIONS



40810 COUNTY CENTER DR. DRAWN BY: CHECKED BY:

JDC, I

PER PLA NOV. 2018 DATE: 1/15/2021 R.C.E. 87843 JOB NUMBER:

BEAUMONT - CHERRY VALLEY WATER DISTRICT Riverside County, California **PURPOSES ONLY** Approved By: MARK SWANSON

District Engineer

R.C.E. No. 72332

CITY OF BEAUMONT, CALIFORNIA WATER PIPELINE REPLACEMENT PROJECTS

CASING DETAILS

F 14 SHEET [LE NO.: 969X

MS0483 / IP200048

SHEE

BCVWD