B.8 DOMENICHELLI AND ASSOCIATES UPPER MAIN DITCH PIPELINE 60 PERCENT DESIGN (2018)
WHERE EXCAVATIONS EXCEED 5 FEET INDEPTH THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CALIFORNIA IRONATIONAL RELATION DEPARTMENT (PHONE: (916) 322-8782)

8. THE CONTRACTOR SHALL PREPARE TO REPLACE ALL PASSING, PROPERTY, WELDING, ROADS, FENCES, ETC. DAMAGED BY THE CONTRACTOR'S EQUIPMENT TO TAKE ON DEMAND CONDITION AT NO ADDITIONAL COST TO EID.

9. CONTRACTOR SHALL MAKE A COPY OF EID'S CURRENT CONSTRUCTION STANDARDS ON THE JOB SITE.

10. ALL CONCERNS TO THESE STANDARDS MUST BE APPROVED IN WRITING BY EID.

11. ONLY EID PERSONNEL, SHALL OPERATE ANY VEHICLES ON EXISTING WATER SYSTEM.

12. PIPELINES SHALL BE KILLED, AND HYDROSTATICALLY TESTED IN ACCORDANCE WITH EID'S TECHNICAL SPECIFICATION.

13.aldo TO THESE DAMAGES MUST BE APPROVED IN WRITING BY EID.

14. CONTRACTOR SHALL ISSUE PLANS IN HIS POSSESSION PRIOR TO THE COMMENCEMENT OF WORK.

15. NO EQUIPMENT OR VEHICLES SHALL BE PLACED OUTSIDE THE EASE, CITY, OR COUNTY RIGHT OF WAY. ANY DESTRUCTION OF PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MARKETED AND ANY OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MARKERS DESTROYED IN DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

17. ALL WATER SYSTEM SHAPES AND OR MARKERS SHALL BE MADE BY EID PERSONNEL ONLY. UNLESS OTHERWISE SPECIFIED AND BY THE CONTRACTOR'S EQUIPMENT TO TAKE ON DEMAND CONDITION AT NO ADDITIONAL COST TO EID.

18. ALL WORKERS SHALL BE CELEBRATED (USA) WITH EID CONSTRUCTION STANDARDS.

19. ROADWAY MATERIALS, CONSTRUCTION QUALITY AND METHODS FOR THIS PROJECT ARE SUBJECT TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND SPECIFICATIONS. ALL WORK WILL BE SUBJECT TO INSPECTION AND APPROVAL BY EID. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.

20. CONTRACTOR SHALL CONDUCT HIS WORK IN SUCH A MANNER AS TO NOT INTERFERE WITH OR BLOCK EXISTING DRAINAGE. WARNED OF MANUFACTURING DRAINAGE SHALL BE SUBJECT TO APPROVAL OF EID.

21. CONTRACTOR AGREED THAT THIS WORK WILL BE CONSIDERED AND COMPLETE AS REQUIRED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND SPECIFICATIONS. ALL WORK WILL BE SUBJECT TO INSPECTION AND APPROVAL BY EID. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.

22. CONTRACTOR SHALL CONDUCT HIS WORK IN SUCH A MANNER AS TO NOT INTERFERE WITH OR BLOCK EXISTING DRAINAGE. WARNED OF MANUFACTURING DRAINAGE SHALL BE SUBJECT TO APPROVAL OF EID.

23. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE DURING CONSTRUCTION. ALL DRAINAGE DURING CONSTRUCTION SHALL BE MAINTAINED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND SPECIFICATIONS. ALL WORK WILL BE SUBJECT TO INSPECTION AND APPROVAL BY EID. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.

24. CONTRACTOR SHALL OBTAIN AND COMPLY WITH PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY ACCORDING TO STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES SWPPP REQUIREMENTS.

25. ALL PIPELINES SHALL BE SUBJECT TO THE ENVIRONMENTAL AND NATURE RESOURCES ON THESE PLANS. CONSTRUCTION STANDARDS WILL BE PROVIDE BY THE CONTRACTOR TO BE COMPLIED WITH BY EID PRIOR TO WORK.

26. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE DURING CONSTRUCTION. ALL DRAINAGE DURING CONSTRUCTION SHALL BE MAINTAINED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND SPECIFICATIONS. ALL WORK WILL BE SUBJECT TO INSPECTION AND APPROVAL BY EID. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS.

27. MARKERS OVER PIPE SHALL BE 30-ACCESSES INDIAN SHAPES UNLESS OTHERWISE SHOWN ON THE PLANS.

28. CONTRACTOR SHALL INSTALL LOCATING PIPE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

29. CONTRACTOR SHALL PROVIDE EID WITH A COPY OF THE CONTRACT DOCUMENTS AND WITH EID CONSTRUCTION STANDARDS WHICH ARE AVAILABLE AT EID.

30. CONTRACTOR SHALL PROVIDE EID WITH A COPY OF THE CONTRACT DOCUMENTS AND WITH EID CONSTRUCTION STANDARDS WHICH ARE AVAILABLE AT AT EID.
# TREE REMOVAL BY PROPERTY

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**Tree Type Legend**

- DF: Deciduous
- CE: Conifer
- OF: Other
- OK: Other

**Notes:**
1. CONTRACTOR TO CUT TREES MARKED FOR REMOVAL 16" TO 12" LONG PIECES AND LEAVE IN STANDS FOR PROPERTY OWNERS TO USE.
2. ALL TREES SHALL BE REMOVED FROM SITE BY THE CONTRACTOR.
3. TREE STAMPS SHALL BE REMOVED.
CONSTRUCTION CORRIDOR CENTERLINE TABULATION

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<th>Chord</th>
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REBAR

PROPERTY OWNER INFORMATION

SPECIFICATIONS FOR IRON PIPE

DELTA PLACERVILLE, CALIFORNIA 95667

EL DORADO IRRIGATION DISTRICT

UPPER MAIN DITCH PIPELINE DESIGN PROJECT

SHEET INDEX AND HORIZONTAL CONTROL

Field Engineer: J. Domenichelli

Project Designer: J. Kool, PE

Drawn: J. Cade

Checked: S. Rogers
NEW INFLUENT STRUCTURE, SEE SHT D1

PROPERTY LINE, TYP

INSTALL 42" PIPELINE AT RESERVOIR

PIPELINE INSTALLATION CORRIDOR NOTES 1 & 2

PROPERTY LINE, TYP

EXISTING GRADE

STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.

STATIONING REFERENCES CENTERLINE OF CORRIDOR.

TREE TO BE REMOVED, TYP, NOTE 4

INSTALL 42" PIPELINE

INSTALL ELBOW AT LOW POINT

PIPELINE PLAN & PROFILE 1
STA 0+00 to STA 5+50
UPPER MAIN DITCH PIPELINE DESIGN PROJECT

NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C1.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. FLOW LINE TO BE ADJUSTED FOR THE CONTRACT SPECIFICATIONS. SEE SHEET D7 FOR POND SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2

PROPERTY LINE, TYP

EXISTING GRADE

STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.

STATIONING REFERENCES CENTERLINE OF CORRIDOR.

TREE TO BE REMOVED, TYP, NOTE 4

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UPPER MAIN DITCH PIPELINE DESIGN PROJECT

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2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C1.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. FLOW LINE TO BE ADJUSTED FOR THE CONTRACT SPECIFICATIONS. SEE SHEET D7 FOR POND SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2

PROPERTY LINE, TYP

EXISTING GRADE

STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.

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NOTES:
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3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. FLOW LINE TO BE ADJUSTED FOR THE CONTRACT SPECIFICATIONS. SEE SHEET D7 FOR POND SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
1. All work shall be performed within the Easement limits.
2. Pipeline alignment to stay within the limits of the Pipeline Corridor as shown. See typical sections on Sheet 11 and control data on Sheet 12.
3. Stationing references Centerline of Pipeline Corridor.
4. Trees to be removed per the contract specifications. See Sheet 67 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to Centerline of Corridor.

1. Completed by
2. Checked by
3. Drawn by
4. Designed by
CONCRETE DITCH LINING TO BE REMOVED, STA 11+00 TO 16+50.

NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C8.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TUNNELS TO BE ANCHORED TO THE CONTRACT SPECIFICATIONS, SEE SHEET C8 FOR TYPICAL SECTIONS.
5. ALL TUNNELS TO BE ANCHORED TO THE CONTRACT SPECIFICATIONS, SEE SHEET C8 FOR TYPICAL SECTIONS.

PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2.

EXISTING GRADE:

PROFILE GRADE:

NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C8.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TUNNELS TO BE ANCHORED TO THE CONTRACT SPECIFICATIONS, SEE SHEET C8 FOR TYPICAL SECTIONS.
5. ALL TUNNELS TO BE ANCHORED TO THE CONTRACT SPECIFICATIONS, SEE SHEET C8 FOR TYPICAL SECTIONS.
NOTE
1. ALL WORK SHALL BE PERFORMED WITHIN THE EXHIBIT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET 11 AND CONTROL DATA ON SHEET 07.
3. STABILIZING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED FOR THE CONTRACT SPECIFICATIONS. SEE SHEET 07 FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on sheet T1 and control data on sheet ca.
3. Stationing references centerline of pipeline corridor.
4. Trees to be removed per the contract specifications. See sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.
PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2

- PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET 1.
- TREE TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.
- PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

SCALE: 1" = 20'
NOTE:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN.
3. CONTINUOUS REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED FOR THE CENTER SPECIFICATIONS. SEE SHEET 07 FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
6. TRENCHING SHALL BE A CLEAR APPROXIMATELY 30-INCHES IN DIAMETER. NO TRENCHING SHALL BE ALLOWED IN THE EXISTING DITCH LINE TO PROTECT ROOTS. DITCH LINE IS APPROXIMATELY 15-FOOT FROM CORRIDOR.
7. FINAL ELEVATION OF BRIDGE SHALL PROVIDE A MINIMUM OF 3-FOOT CLEARANCE ABOVE FINAL GRADE ABOVE DITCH CENTERLINE.

PROPERTY LINE, TYP

TREE TO BE REMOVED, TYP. NOTE 4

PROPERTY LINE, TYP

PROFILE INSTALLATION CORRIDOR, NOTES 1 & 2

EASEMENT LIMITS

REPLACE IN PLACE (C) WOODEN DECK

PROJECT IN PLACE (D) WOODEN DECK

REPLACE AND REPLACE 14-METERS IN PLACE (B) WOODEN FOOTBRIDGE, NOTE 5

REPLACE AND REPLACE 14-METERS IN PLACE (B) WOODEN FOOTBRIDGE, NOTE 5

PROFILE

SCALE: 1" = 20'
PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2

PROPERTY LINE, TOP

PIPELINE TO BE REMOVED, TOP, NOTE 4

NOTE:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C8.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on sheet 1 and control data on sheet 2.
3. Stationing references centerline of pipeline corridor.
4. Trees to be removed per the contract specifications. See sheet 07 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

El Dorado Irrigation District
Upper Main Ditch Pipeline Design Project
Sheet 14
STA 71+50 to 77+00

Warning: If this is an original, not a copy, it is not to scale.

Drawn: Jim Cade
Checked: Sara Rogers

100 Headquarters Dr., Suite 105
Placerville, CA 95667
Phone: (916) 933-1880
Fax: (916) 933-6788

Placerville, CA 95667
Phone: (916) 933-1880
Fax: (916) 933-6788
NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET CA.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET CA.
3. STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

EXISTING GRADE

PROPERTY LINE, TYPICAL

PROPERTY LINE, TYPICAL

EXISTING GRADE

PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

SCALE: 1" = 20'

Upper Main Ditch Pipeline Design Project

PIPELINE PLAN & PROFILE 15
STA 77+00 to 82+50

Placerville, California 95667

EL DORADO IRRIGATION DISTRICT

Upper Main Ditch Pipeline Design Project

PIPELINE PLAN & PROFILE 15
STA 77+00 to 82+50

Placerville, California 95667

Domenichelli & Associates

Placerville, California 95667

PIPELINE PLAN & PROFILE 15
STA 77+00 to 82+50

Placerville, California 95667
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET CB.
3. STATIONING REFERENCED CENTERLINE OF PIPELINE Corridor.
4. TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET GT FOR TREE SIZES AND TYPE.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on sheet T1 and control data on sheet C8.
3. Stationing references centerline of pipe corridor.
4. Trees to be removed per the contract specifications. See sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

Notes:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on sheet T1 and control data on sheet C8.
3. Stationing references centerline of pipe corridor.
4. Trees to be removed per the contract specifications. See sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.
NOTE 1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.

2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET CB.

3. STOWING REFERENCE POINTS CENTERED ON PIPELINE CORRIDOR.

4. T I PES TO BE DETAILED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.

5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

SCALE:
- PLAN: 1" = 20'
- PROFILE: 1" = 20'
- HORIZONTAL SCALE: 1" = 20'
- VERTICAL SCALE: 1" = 20'

NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.

2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET CB.

3. STOWING REFERENCE POINTS CENTERED ON PIPELINE CORRIDOR.

4. T I PES TO BE DETAILED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.

5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.
PIPELINE INSTALLATION CORRIDOR, NOTES 1 & 2

1. All work shall be performed within the existing limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on SHEET 1 and control data on SHEET 7.
3. Existing references centerline of pipeline corridor.
4. Trees to be removed for the contract specifications. See SHEET 1 for tree size and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE, TYP

EXISTING GRADE

FINISHED GRADE

INSTALLED 12" PIPELINE

--- Property Line, Typ

--- Existing Limits

--- Pipeline Installation Corridor, Notes 1 & 2

--- Trees to be removed, Typ, Note 4

--- EiD Property Id. Number

--- Warning

--- Design by Joe Domenichelli

--- Drawn by Jim Cadre

--- Checked by Sara Rogers

--- Mosquito Road, Suite 1047

--- Placerville, California 95667

--- Phone: (916) 332-1997

--- Fax: (916) 332-6118

--- Project 22

--- Sheet P22

--- EL DORADO IRRIGATION DISTRICT

--- Upper Main Ditch Pipeline Design Project

--- STA 115+50 to 121+00

--- 2008-0000761

--- APN 101-240-45-100

--- 1" = 20'

--- Horizontal Scale: 1" = 20'

--- Vertical Scale: 1" = 20'

--- Finished Grade, Note 5

--- Profiles of Existing and Finished Grades are referenced to Centerline of Corridor.

--- Sheet P22

--- 2280 Mosquito Road - P.O. Box 1947

--- Placerville, California 95667

--- Sheet P22

--- Upper Main Ditch Pipeline Design Project

--- STA 115+50 to 121+00

--- 2008-0000761

--- APN 101-240-45-100

--- 1" = 20'

--- Horizontal Scale: 1" = 20'

--- Vertical Scale: 1" = 20'

--- Finished Grade, Note 5

--- Profiles of Existing and Finished Grades are referenced to Centerline of Corridor.

--- Sheet P22

--- 2280 Mosquito Road - P.O. Box 1947

--- Placerville, California 95667

--- Sheet P22

--- Upper Main Ditch Pipeline Design Project

--- STA 115+50 to 121+00

--- 2008-0000761

--- APN 101-240-45-100

--- 1" = 20'

--- Horizontal Scale: 1" = 20'

--- Vertical Scale: 1" = 20'

--- Finished Grade, Note 5

--- Profiles of Existing and Finished Grades are referenced to Centerline of Corridor.
NOTE:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNED TO STAY WITHIN THE LIMITS OF THE EASEMENT AS SHOWN. SEE TYPICAL ALIGNMENTS ON SHEETS 1 & 2 AND CONTROL DATA ON SHEET 2.
3. STAKING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.
4. TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET 2 FOR TREE SIZES AND TYPES.
5. PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

PLAN
SCALE: 1" = 20'

PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 1'
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Surveys references containing of pipeline corridor.
4. Trees to be removed per the contract specifications, see Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

EXISTING GRADE, PIPELINE NOTE 1 & 2

PROPERTY LINE, TYP

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

PROPERTY LINE

EXISTENCE LIMITS

PLOT SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

NOTES:
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown on typical sections on Sheet T1 and control data on Sheet C8.
3. Survey references containing pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet G7 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.
NOTES:
1. ALL WORK SHALL BE PERFORMED WITHIN THE EASEMENT LIMITS.
2. PIPELINE ALIGNMENT TO STAY WITHIN THE LIMITS OF THE PIPE CORRIDOR AS SHOWN. SEE TYPICAL SECTIONS ON SHEET T1 AND CONTROL DATA ON SHEET C8.
3. STORMWATER DISCHARGES INCLUDING WATER SOURCES.
4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
5. STORMWATER DISCHARGES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

SCALE:
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

EXISTING GRADE
INSTALL AS PERCENT
PROPOSED GRADE, NOTE 5

STATIONING REFERENCES CENTERLINE OF PIPELINE CORRIDOR.

TREES TO BE REMOVED PER THE CONTRACT SPECIFICATIONS. SEE SHEET G7 FOR TREE SIZES AND TYPE.

PROFILES OF EXISTING AND FINISHED GRADES ARE REFERENCED TO CENTERLINE OF CORRIDOR.

PIPELINE PLAN & PROFILE 27
STA 143+00 to 148+50
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on Sheet 11 and control data on Sheet 01.
3. Staking references containing of pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet 67 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

---

Note: AS NOTED.

--

Eldorado Irrigation District
APN 101-330-61-100

(Enter Property I.D. Number)

---

WARNING:

1/2"

DESIGNED: JOE DOMENICH

DRAWN: JIM CADE

CHECKED: SARA ROGERS

---

EL DORADO HILLS, CA 95762
P.O. BOX 1047
PLACERVILLE, CALIFORNIA 95667
PHONE: (916) 933-1997
FAX: (916) 933-4778

---

UPPER MAIN DITCH PIPELINE DESIGN PROJECT

PIPELINE PLAN & PROFILE 28
STA 148+50 to 154+00

---

SCALE:

PLAN SCALE: 1" = 20'
PROFILE SCALE: 1" = 2'

---

NOTES:

1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on Sheet 11 and control data on Sheet 01.
3. Staking references containing of pipeline corridor.
4. Trees to be removed per the contract specifications. See Sheet 67 for tree sizes and type.
5. Profiles of existing and finished grades are referenced to centerline of corridor.

---

NO CONCRETE DITCH LINING BEGINS & CONTINUES UPSTREAM AT STA 153+70.

---

EL DORADO IRRIGATION DISTRICT
APN 101-330-61-100

(Enter Property I.D. Number)
1. All work shall be performed within the easement limits.
2. Pipeline alignment to stay within the limits of the pipe corridor as shown. See typical sections on Sheet T1 and control data on Sheet C8.
3. Stationing referenced centerline of pipe corridor.
4. Trees to be removed per the contract specifications. See Sheet C7 for tree sizes and type.
5. Profiles of existing and finished grade are referenced to centerline of corridor.
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10-FEET. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:
1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10-FEET.

SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FOOT. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10-FOOT. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:
1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-Feet. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10-Feet. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8- FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO STA 157+12 IS 10-FEET. SEE PLAN AND PROFILE SHEETS 7, 8, AND 29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T-1.

FINISHED EXISTING GRADE, TYP

SCALE: WARNING 0.25"=1'-0" DRAWN NO. CJ8068

DESIGNED: JOE DOMENICHE
HORIZONTAL: JIM CADE
VERTICAL: SARAH ROGERS

DRAWN: JOE DOMENICHE
CHECKED: SARA ROGERS

IF THIS BAR DOES NOT MEASURE 1" CHECKED: SARA ROGERS.

NOT MEASURE

NOT TO SCALE. ENDORADO Hills, C A 95 7 62

FAX: (916) 933-4778
PIPELINE CORRIDOR
EXISTING GRADE, TYP

EXISTING GRADE, TYP

NOTE

INCHES GRADE, TYP

PIPELINE CORRIDOR

NOTE

RENAMED BY
CHECKED...SARA ROGERS

86+00.00

87+00.00

88+00.00

89+00.00

1047-95667

UPPER MAIN DITCH PIPELINE DESIGN PROJECT

ALIgment Sections 8

DOMENICHELLI & ASSOCIATES

EL DORADO IRRIGATION DISTRICT

2880 MOSQUITO ROAD - P.O. BOX 1947
PLACERVILLE, CALIFORNIA 95667

NOTE:
1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 157+12 IS 10 FEET. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO 3770 IS 8 FEET. SEE THE PLAN AND PROFILE SHEETS FOR THE PIPELINE CORRIDOR SECTIONS. SEE SHEET 11.

PIPELINE CORRIDOR

EXISTING GRADE, TYP

NOTE

INCHES GRADE, TYP

PIPELINE CORRIDOR

NOTE

RENAMED BY
CHECKED...SARA ROGERS

86+00.00

87+00.00

88+00.00

89+00.00

1047-95667

UPPER MAIN DITCH PIPELINE DESIGN PROJECT

ALIgment Sections 8

DOMENICHELLI & ASSOCIATES

EL DORADO IRRIGATION DISTRICT

2880 MOSQUITO ROAD - P.O. BOX 1947
PLACERVILLE, CALIFORNIA 95667

NOTE:
1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 157+12 IS 10 FEET. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO 3770 IS 8 FEET. SEE THE PLAN AND PROFILE SHEETS FOR THE PIPELINE CORRIDOR SECTIONS. SEE SHEET 11.
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10-FEET. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:
1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8 FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO 157+12 IS 10 FEET. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29 FOR TYPICAL PIPELINE CORRIDOR SECTIONS.

PIPELINE CORRIDOR 1110+00.00

EXISTING GRADE, TYP

SCALE: WARNING

DESIGNED BY: Domenichelli & Associates

CHECKED: Sara Rogers

DRAWN: Jim Cade

DATE: 11/01/14

NOT MEASURE 1"

Dorado Hills, CA 95762 Fax: (916) 933-4778

El Dorado Irrigation District

UPPER MAIN DITCH PIPELINE DESIGN PROJECT

ALI unhn ONCTIONS 10
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO STA 157+12 IS 10-FEET. SEE PLAN AND PROFILE SHEETS P7, P8 AND P29. FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.
NOTES:

1. The width of the pipeline corridor from STA 0+00 to STA 32+42 is 8-feet. The width of the corridor from STA 33+96 to STA 157+12 is 10-feet. See Plan and Profile Sheets for typical pipeline corridor sections.
NOTES:

1. THE WIDTH OF THE PIPELINE CORRIDOR FROM STA 0+00 TO STA 32+42 IS 8-FEET. THE WIDTH OF THE CORRIDOR FROM STA 33+96 TO STA 157+12 IS 10-FEET. SEE PLAN AND PROFILE SHEETS FOR TYPICAL PIPELINE CORRIDOR SECTIONS SEE SHEET T1.

1145+00.00
1146+00.00
1147+00.00
P7, P8 AND P29.

LIMITS, TYP--.., SHEET T1.
NOTES:

1. The width of the pipeline corridor from STA 0+00 to STA 32+42 is 8-feet. For total pipeline width, see plan and profile sheets P7, P8, and P29. For typical pipeline corridor sections see SHEET T1.
1. TO AVOID ROOTS OF PROTECTED TREE, NO TRENCHING SHALL BE ALLOWED WITHIN THE EXISTING DRY LINE.
2. FINAL ELEVATION OF BRIDGE SHALL PROVIDE A MINIMUM OF 2' OF CLEARANCE ABOVE FINAL GRADE AT PIPE CENTERLINE.

TRANSITION TO 6' CORRIDOR AT STA 5+28

EXISTING BRIDGE: PROTECT IN PLACE OR REMOVE AND REPLACE, AT CONTRACTORS OPTION.
CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER.

TO AVOID ROOTS OF PROTECTED TREE, NO TRENCHING SHALL BE ALLOWED WITHIN THE EXISTING DRIPI LINE.

TRANSITION TO 6' CORRIDOR AT STA 5+43

PLAN
SCALE 1" = 1'

NOTES:
1. TO AVOID ROOTS OF PROTECTED TREE, NO TRENCHING SHALL BE ALLOWED WITHIN THE EXISTING DRY LINE.
2. FINAL ELEVATION OF BRIDGE SHALL PROVIDE A MINIMUM OF 2' OF CLEARANCE ABOVE FINAL GRADE AT PIPE CENTERLINE.

TRANSITION TO 6' CORRIDOR AT STA 5+43

EXISTING BRIDGE: PROTECT IN PLACE OR REMOVE AND REPLACE, AT CONTRACTORS OPTION.
CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER.

REMOVEL EXISTING DRAIN PIPE

42" PIPE FROM STA 5+28 TO STA 5+43

TRANSITION TO 6' CORRIDOR AT STA 5+28

PROTECT IN PLACE

EXISTING BRIDGE: PROTECT IN PLACE OR REMOVE AND REPLACE, AT CONTRACTORS OPTION.
CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER.

TRANSITION TO 6' CORRIDOR AT STA 5+43

REMOVEL EXISTING ORAL. PIPE
1. To avoid roots of protected tree, no trenching shall be allowed within the existing drip line.

2. Final elevation of bridge shall provide a minimum of 2" of clearance above final grade at pipe centerline.
NOTES:
1. REMOVE BLIND FLANGE FROM 42" DI PIPE AND CONNECT WITH APPROPRIATE COUPLING PER DETAIL WORK SHEET.

NOTES:
1. REMOVE BLIND FLANGE FROM 42" DI PIPE AND CONNECT WITH APPROPRIATE COUPLING PER DETAIL WORK SHEET.

WARNING
IF THIS DRAWING DOES NOT MEASURE 1" CHECKED SARA ROGERS
THEN DRAWING IS NOT TO SCALE.

PLAN
SCALE 1" = 1'
NOTES:
1. REMOVE EXISTING BRIDGE AND ABUTMENT. EXTEND 1 BEAM/WOOD DECK BRIDGE.
2. REINFORCED CONCRETE BOX TO BE DESIGNED FOR HzO LOADING PRECAST.
NOTES:
1. LOW FLOW DITCH MAINFLOW DOWNSTREAM GAUGE OF 0.005 UNTIL CLEARING TO STANDARD SECTION DEPTH.
NOTE:
1. HORIZONTAL AND VERTICAL CONTROL DATA FOR THE CENTERLINE OF THE PIPE CORRIDOR SHALL ESTABLISH FINISHED GRADES. SEE SHEET G8 FOR CENTERLINE CONTROL DATA.
2. DITCH AT BERM PREPARES PIPE MAINTAIN SAME POSITIVE CURB SLOPE AS THE CENTERLINE CURVE AND PIPELINE TRENDS FOR UPSTREAM. UNLESS OTHERWISE SHOWN ON A TYPICAL SECTION SHEET, NOTE 3 TO SHEET A.
3. CORRIDOR LIMITS DEFINE THE HORIZONTAL BOUNDARY IN WHICH THE PIPELINE MAY BE INSTALLED. THESE LIMITS DEPICT THE ALLOWABLE OUTSIDE EDGE OF PIPE.
4. SEE TYPICAL SECTION 2/3 FOR TRENCH ZONE BOUNDING AND PIPELINE REQUIREMENTS.
5. SEE PLANS AND PROFILES SHEETS FOR PIPE PROFILE AND FINAL COVER OVER PIPE. COVER OVER PIPE SHALL NOT BE LESS THAN SHOWN IN THE TYPICAL SECTIONS, EXCEPT WHERE SHOWN ON SPECIFIC CROSSINGS OR TIE-IN DETAILS.

NOTE:
1. HORIZONTAL AND VERTICAL CONTROL DATA FOR THE CENTERLINE OF THE PIPE CORRIDOR SHALL ESTABLISH FINISHED GRADES. SEE SHEET G8 FOR CENTERLINE CONTROL DATA.
2. DITCH AT BERM PREPARES PIPE MAINTAIN SAME POSITIVE CURB SLOPE AS THE CENTERLINE CURVE AND PIPELINE TRENDS FOR UPSTREAM. UNLESS OTHERWISE SHOWN ON A TYPICAL SECTION SHEET, NOTE 3 TO SHEET A.
3. CORRIDOR LIMITS DEFINE THE HORIZONTAL BOUNDARY IN WHICH THE PIPELINE MAY BE INSTALLED. THESE LIMITS DEPICT THE ALLOWABLE OUTSIDE EDGE OF PIPE.
4. SEE TYPICAL SECTION 2/3 FOR TRENCH ZONE BOUNDING AND PIPELINE REQUIREMENTS.
5. SEE PLANS AND PROFILES SHEETS FOR PIPE PROFILE AND FINAL COVER OVER PIPE. COVER OVER PIPE SHALL NOT BE LESS THAN SHOWN IN THE TYPICAL SECTIONS, EXCEPT WHERE SHOWN ON SPECIFIC CROSSINGS OR TIE-IN DETAILS.
NOTES:
1. "C" is 1/5 the clear span distance measured between exterior anchor points of the adjacent panel.
2. "C" is the length of the bar lap and embedment of the key bar lap & embedment table.
3. "C" is the same length for all key bars to provide equal bearing at the key bars lap & embedment table.
4. "C" is the length for the key bars lap & embedment table.
5. "C" is the length for the key bars lap & embedment table.
6. "C" is the length for the key bars lap & embedment table.
7. "C" is the length for the key bars lap & embedment table.

This detail shows the vertical bars only.

NOTES:
1. Locate per plans.
2. Utilize watertight masonry joint expansion material.

TYPICAL CONCRETE DETAILS 3

DOMENICHELLI & ASSOCIATES

EL DORADO IRRIGATION DISTRICT
UPPER MAIN DITCH PIPELINE DESIGN PROJECT
TYPICAL CONCRETE DETAILS 3

SCALE AS NOTED
Appendix B Engineering Studies

B.9 WESTMARK GROUP MAIN DITCH - FOREBAY RESERVOIR TO RESERVOIR 1 SEPTIC SYSTEM AND DOMESTIC WELL LOCATIONS REPORT (MAY, 22, 2013)
May 22, 2013

Mr. Dan Corcoran
Environmental Division Manager
El Dorado Irrigation District
2890 Mosquito Road
Placerville, Ca 95667

Subject: Main Ditch - Forebay Reservoir to Reservoir 1
Septic System and Domestic Well Locations Report
Pollock Pines, California

Dear Dan:

The Westmark Group, Inc. (Westmark) is pleased to present this letter report that includes the results of the research completed for an inventory of locations of septic systems and domestic wells on parcels adjoining the Main Ditch along the section from Forebay Reservoir to Reservoir 1 in Pollock Pines, California. Our scope of work was developed based on discussions with the El Dorado Irrigation District (District) and a description of the information desired by the District regarding proposed ditch improvements. The work was completed under the existing On-Call Professional Services contract (Regulatory Permitting) between the District and Westmark.

The research was conducted by accessing available public information on septic systems and wells from local and state agencies. Westmark requested septic system and water well information from the El Dorado County Environmental Management Department (EMD) files for the parcels adjoining the Main Ditch according to the list of properties provided by the District. A search of well completion reports on file with the California Department of Water Resources (DWR) within Sections 25 and 36, T 11 N, R 12 E (includes the project study area) was also requested to obtain any additional well reports for the adjoining parcels that may not have been recorded in the EMD files.

The approximate locations of septic system areas and wells are shown on Westmark’s Drawings 1, 2 and 3 (attached). Those locations were determined by review of the provided agency records, observation of aerial photographs, and by observations made during a site walk. A summary of the adjoining property data, agency record information and site observations/comments is provided on attached Table 1.

Summary of Search Results:
EMD File Search
Copies of the file information from the EMD records were obtained and reviewed to identify the sizes and locations of the documented septic systems. Where available, the site plans marked as “As-Built” or “Field Copy” were used to position on Westmark’s drawings, the field-installed locations and dimensions of the system components, as well as the distances the disposal trenches and septic tanks are set back from the Main Ditch.
Review of the EMD file records provided indicate 28 parcels adjoining the ditch are developed with onsite wastewater disposal systems. The file review also indicates water wells are developed on 8 parcels adjoining the ditch.

**DWR Search Results**
The DWR provided a compact disc containing a summary table of the water wells with well completion reports on file in Sections 25 and 36, T 11 N, R 12 E, and copies of the accompanying well completion reports. Review of the summary and the reports indicates 5 water wells are reported as developed on parcels adjoining the ditch. These 5 wells are also reported in the EMD files. Seven of the well completion reports provided were found to contain inadequate or no information on the location of the well documented by the driller’s report, and therefore the well’s parcel location within the searched area (sections 25 and 36) and its potential to be on a parcel adjacent to the ditch could not be determined.

**Site Walk Results**
On May 7, 2013, Westmark personnel conducted a site walk along the study section of the ditch to visually verify the record search findings, and to possibly identify additional residences/structures not reported in the records that would likely use an onsite wastewater disposal system. The site walk was also conducted to observe any surface structures that would indicate the likely presence of water wells that were not listed in agency files searched. Six residential structures were observed during the site walk, on parcels adjoining the ditch that likely operate disposal systems that were not included in the agency file records provided. Observations of the ditch location on property numbers 1 – 7 also provided information regarding the ditch alignment through those properties as indicated on Drawing 1.

One additional property (APN 101-161-06-100, end of Marjorie Way) not included in the District’s list of adjoining properties, was observed to be developed with a residence and likely septic system. As the northwest property corner of this parcel is located at the ditch, the property and likely septic system area are shown and listed on Drawing 3 and Table 1.

We appreciate the opportunity to assist the District on this project, and please do not hesitate to call with any questions regarding the information contained in this report.

Sincerely,
The Westmark Group, Inc.

Michael Vander Dussen, P.G., C.E.G.
Senior Engineering Geologist

Robert Kull, P.E.
Vice President of Operations

Enclosures: Drawings 1, 2 and 3
Table 1
Legend

- APPROXIMATE LOCATION DOMESTIC WELL (EL DORADO COUNTY AND CALIFORNIA DWR RECORDS)
- APPROXIMATE LOCATION SEPTIC SYSTEM AREA (EL DORADO COUNTY EMD RECORDS)
- EID MAIN DITCH ALIGNMENT
- EID PARCEL REFERENCE NUMBER
- EID POTABLE WATER CUSTOMER
- EID RAW WATER CUSTOMER

1 inch = 300 ft.
<table>
<thead>
<tr>
<th>Property Number</th>
<th>El Dorado County Assessor’s Parcel Number</th>
<th>Parcel Map/Record of Survey Reference</th>
<th>Property Improvements</th>
<th>Onsite Wastewater Disposal System</th>
<th>Domestic Water Well (CA DWR Records)</th>
<th>Comments</th>
</tr>
</thead>
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<td>1</td>
<td>101-330-60-100</td>
<td>residence</td>
<td>yes</td>
<td>300</td>
<td>system downslope of ditch</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>101-330-59-100</td>
<td>garage/shop</td>
<td>no</td>
<td></td>
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<tr>
<td>3</td>
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<td>system downslope of ditch</td>
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<td>5</td>
<td>101-330-55-100</td>
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<td>yes</td>
<td>150</td>
<td>system upslope of ditch</td>
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<td>101-240-10-100</td>
<td>residence</td>
<td>yes</td>
<td>60</td>
<td>system downslope of ditch</td>
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<td>13</td>
<td>101-240-11-100</td>
<td>PM 3/87/A</td>
<td>residence</td>
<td>yes</td>
<td>100</td>
<td>system upslope of ditch</td>
</tr>
<tr>
<td>14</td>
<td>101-240-45-100</td>
<td>residence</td>
<td>no</td>
<td>~500</td>
<td>no disposal system records on file, structures approximately 500 feet downslope of ditch</td>
<td></td>
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<tr>
<td>15</td>
<td>101-240-14-100</td>
<td>PM 3/87/B</td>
<td>residence</td>
<td>yes</td>
<td>100</td>
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</tr>
<tr>
<td>16</td>
<td>101-240-42-100</td>
<td>residence</td>
<td>no</td>
<td>~500</td>
<td>no disposal system records on file, system upslope of ditch</td>
<td></td>
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<tr>
<td>17</td>
<td>101-240-24-100</td>
<td>residence</td>
<td>no</td>
<td>~100</td>
<td>no disposal system records on file, system upslope of ditch</td>
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<tr>
<td>18</td>
<td>101-240-33-100</td>
<td>residence</td>
<td>no</td>
<td>~50</td>
<td>yes ~100</td>
<td>water well no disposal system records on file, system and well upslope of ditch</td>
</tr>
<tr>
<td>19</td>
<td>101-220-15-100</td>
<td>residence</td>
<td>no</td>
<td>~100</td>
<td>no disposal system records on file, system upslope of ditch</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>101-220-07-100</td>
<td>PM 21/138/C</td>
<td>no improvements</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>21</td>
<td>101-220-08-100</td>
<td>residence</td>
<td>yes</td>
<td>~400</td>
<td>yes ~350</td>
<td>water well system and well upslope of ditch</td>
</tr>
<tr>
<td>22</td>
<td>101-220-03-100</td>
<td>no improvements</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>23</td>
<td>101-220-17-100</td>
<td>PM 45/31/1</td>
<td>residence</td>
<td>yes</td>
<td>100</td>
<td>water well system and well upslope of ditch</td>
</tr>
<tr>
<td>24</td>
<td>101-220-18-100</td>
<td>PM 45/31/2</td>
<td>residence</td>
<td>yes</td>
<td>~120</td>
<td>yes ~280 water well system and well upslope of ditch</td>
</tr>
<tr>
<td>25</td>
<td>101-220-02-100</td>
<td>no improvements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>101-220-01-100</td>
<td>no improvements</td>
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<td></td>
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<td>27</td>
<td>101-030-12-100</td>
<td>2 residences</td>
<td>yes</td>
<td>580</td>
<td>~120</td>
<td>yes 650 both residences and well located downslope of ditch, one residence and well west of Blair Road</td>
</tr>
<tr>
<td>28</td>
<td>101-220-19-100</td>
<td>R/5 26/61</td>
<td>no improvements</td>
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<td>29</td>
<td>101-030-48-100</td>
<td>residence, tree farm</td>
<td>no</td>
<td>~540</td>
<td></td>
<td></td>
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<tr>
<td>30</td>
<td>101-210-01-100</td>
<td>R/5 25/94</td>
<td>residence</td>
<td>yes</td>
<td>320</td>
<td>yes 640 water well system and well upslope of ditch</td>
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<td>31</td>
<td>101-210-96-100</td>
<td>PM 20/71/A</td>
<td>2 residences</td>
<td>yes</td>
<td>180</td>
<td>yes 200 system and well downslope of ditch, one system</td>
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<td>32</td>
<td>101-210-35-100</td>
<td>no improvements</td>
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<td>33</td>
<td>101-210-37-100</td>
<td>PM 20/71/B</td>
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<td>101-210-39-100</td>
<td>PM 20/71/D</td>
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<td>yes</td>
<td>120</td>
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<td>35</td>
<td>101-210-45-100</td>
<td>PM 26/80/1</td>
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<td>yes</td>
<td>110</td>
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<td>36</td>
<td>101-210-44-100</td>
<td>PM 26/80/1</td>
<td>residence</td>
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<td>100</td>
<td>system upslope of ditch</td>
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<td>37</td>
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<td>PM 10/65/3</td>
<td>residence</td>
<td>no</td>
<td>~100</td>
<td>no disposal system records on file, structures approximately 100 feet upslope of ditch</td>
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<td>38</td>
<td>101-141-45-100</td>
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<td>39</td>
<td>101-141-44-100</td>
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<td>no improvements</td>
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<td>40</td>
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<td>2 residences</td>
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<td>~280</td>
<td>both ~280</td>
<td>systems downslope of ditch</td>
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<td>41</td>
<td>101-141-02-100</td>
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<td>100</td>
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<td>residence</td>
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<td>100</td>
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<td>43</td>
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<td>PM 13/88/A</td>
<td>residence</td>
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<td>110</td>
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<td>46</td>
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<td>church buildings</td>
<td>yes</td>
<td>270</td>
<td>500</td>
<td>systems upslope of ditch</td>
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<td>47</td>
<td>101-141-83-100</td>
<td>residence, tree farm</td>
<td>yes</td>
<td>500, 700, 100</td>
<td>systems upslope of ditch, Roberts Tree Farm</td>
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<td>48</td>
<td>101-100-90-100</td>
<td>RS 30/24/1</td>
<td>2 residences</td>
<td>yes</td>
<td>106, 150</td>
<td>yes 300 parcel property corner at ditch, likely disposal system upslope of ditch, property not on District list</td>
</tr>
<tr>
<td>NA</td>
<td>101-161-06-100</td>
<td>2 residences</td>
<td>yes</td>
<td>~100</td>
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