



## SEWER INSPECTION REQUIREMENTS FOR RESIDENTIAL SERVICE

Covers private sewer lines that gravity feed or use a private pumped system to gravity feed into an EID sewer main.

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Wastewater Inspections are made by the El Dorado Irrigation District (EID) and by El Dorado County. This document describes EID's requirements. The applicant should contact the El Dorado County Building Department at (530) 621-5315 for their requirements and scheduling.

**PLEASE REFER TO THE APPLICABLE DRAWING LISTED BELOW FOR CONNECTING TO THE SEWER SYSTEM. DRAWINGS CAN FOUND WITHIN THE DESIGN AND CONSTRUCTION STANDARDS AVAILABLE OUR WEBSITE.**

S08 – Sewer Service Connection

S08B – Sewer Service Backwater Valve Installation

S08C – Pumped Sewer Service to Force Main

S08D – Pumped Sewer Service to Gravity Sewer

### APPLICANT'S RESPONSIBILITY

- 1) It is the applicant's responsibility to call both agencies to schedule inspections.
- 2) The contractor performing the work must be on the job site when the inspection occurs.
- 3) Work that can't be visually inspected will not be accepted.
- 4) You must call Underground Service Alert (USA) at (800) 642-2444. Requires a 48 hour notice.

### INSPECTIONS

EID requires two inspections. Schedule inspections online at [www.eid.org/inspections](http://www.eid.org/inspections) at least 48 hours in advance.

First Inspection: At the time of the sewer installation from the main line to the property line; or after the installation of the one-way clean-out, but before backfill.

Final Inspection: After final grading but before concrete, pavement or landscape placement.

### APPLICATION REQUIREMENTS

An inspection fee of \$200 for each unit of service is payable at the time application for service is accepted by EID. This fee covers two onsite inspections (first and final). An additional fee of \$130 is required for any additional onsite inspections. This fee is paid prior to the onsite inspection being scheduled.



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### **LOCATING UNDERGROUND FACILITIES**

When the applicant calls USA, they will request member companies and agencies to mark the location of their facilities. An EID representative will locate underground wastewater, water, and recycled water facilities with surface markings to show the approximate location of these underground facilities based upon available records. EID will exercise due care to make this information as complete and accurate as possible; however, we cannot guarantee the accuracy of the information. The individuals responsible for excavating or working near underground facilities shall take all necessary precautions to protect EID property, regardless of the information furnished.

### **DAMAGE TO EID FACILITIES**

If the applicant or his/her delegate damages EID facilities, the applicant is responsible for the cost to make repairs.

### **TECHNICAL PROVISIONS**

#### GENERAL

Safety on the project is the responsibility of the contractor. All safety requirements of CAL-OSHA and other local agencies must be observed. Trenching and shoring systems must be of prime concern. Any trench over five-feet (5') deep will require OSHA approved shoring, as per Construction Safety Codes of CAL-OSHA, Section 1540.

#### GRADE

Residential gravity wastewater systems shall run in practical alignment and at a uniform slope of not less than one-fourth inch (1/4") per foot toward the point of disposal.

#### CONSTRUCTION

- A. All Trenches and piping to be maintained by EID shall be constructed to the specifications of EID detail drawings. The backfill required is to be three-quarter inch (3/4") minus AB.
- B. If required, the EID construction crew will perform all taps to the wastewater main. If a County or City Road Encroachment Permit is required, EID will apply-for and obtain the permit.
- C. Construction of facilities inside the property line shall conform to the uniform plumbing code and El Dorado County Building Department requirements.
- D. Backwater valve installations shall be installed where plumbing fixture levels are below the elevations of the curb at the point where the building sewer crosses under the curb; or when plumbing fixture levels are below the elevation of the upstream manhole rim. See drawing SO8A for typical backwater valve installation.



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### **CONSTRUCTION (continued)**

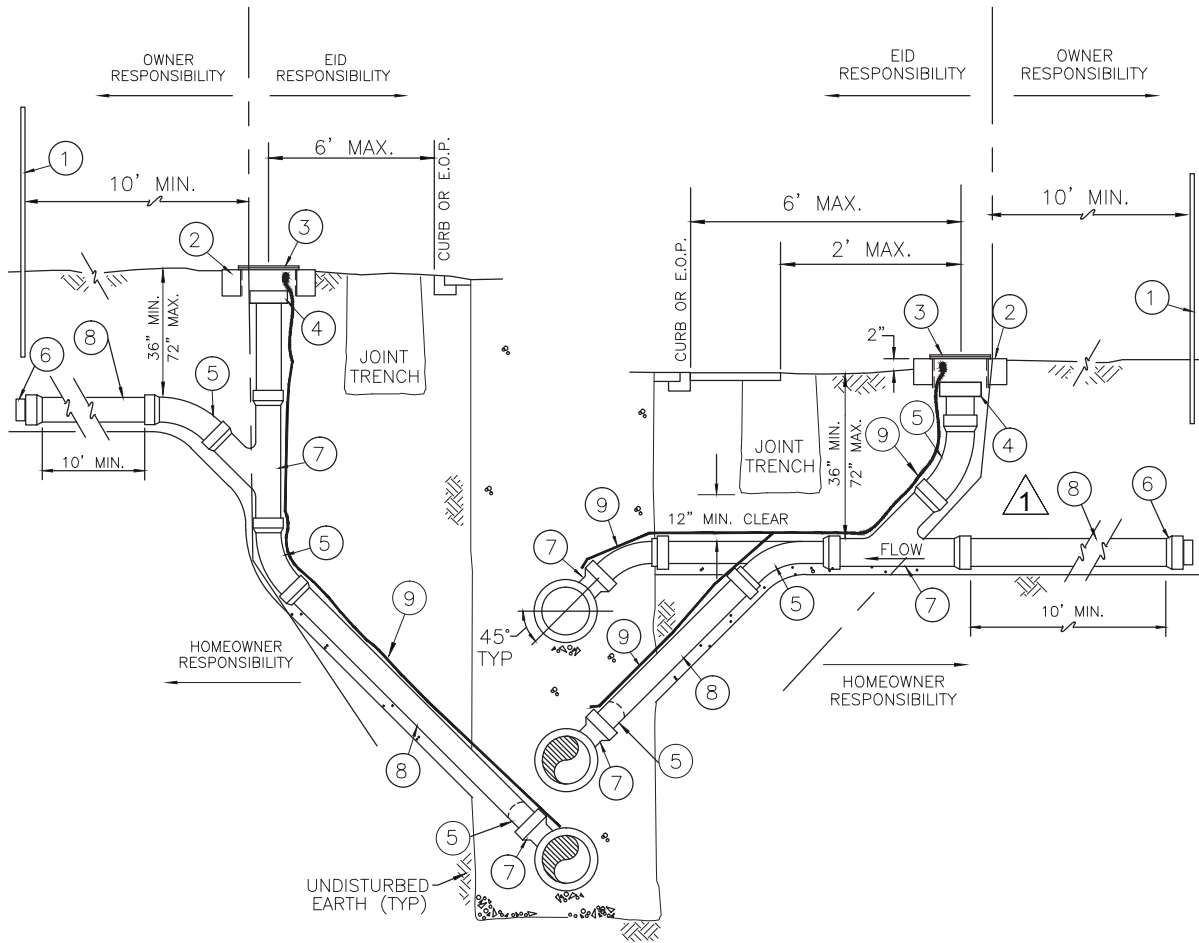
- E. The cleanout cap shall be of a slip on type. If banded, the band should allow cap to slip off easily. *No screw caps or glued caps will be permitted on the one-way clean-out.* The clean-out riser shall be plumbed and top cut level. The cleanout cap shall be between three-inches (3”) and eight-inches (8”) below the box lid.
- F. No horizontal angles will be allowed between the EID stub and the EID clean-out. The EID clean-out will be installed as close to vertical to the final grade as practical in accordance with standard drawing SO8.

### **BILLING**

Billing will commence after final inspection is completed and approved by EID. If the residence becomes occupied without an approved final inspection, EID will notify the property owner in writing that EID will not assume responsibility for sewer systems not finished.

### **RESPONSIBILITY FOR MAINTENANCE**

EID will only be responsible for line repair or maintenance from the property line to the sewer main, regardless of the one-way clean-out location, unless otherwise specified in EID records.



CONSTRUCTION NOTES

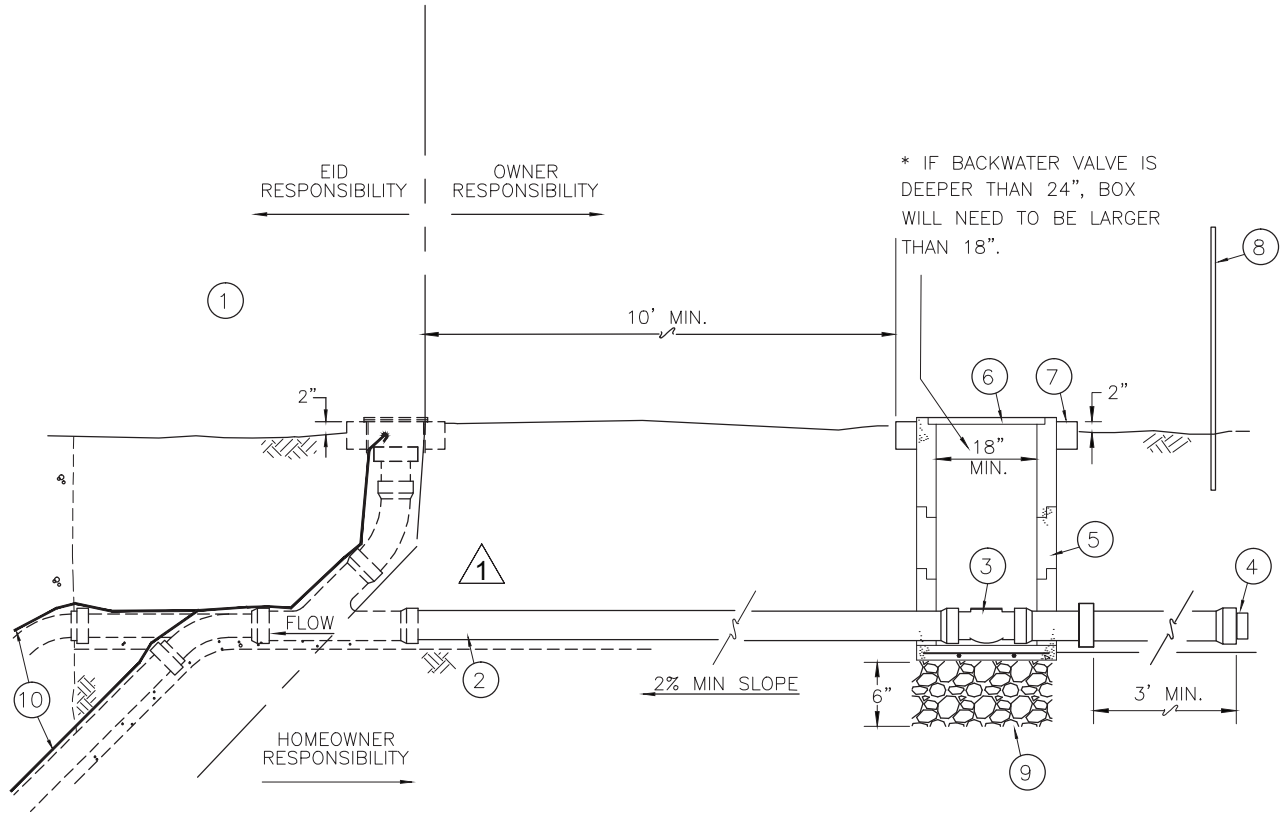
1. JOINT UTILITY TRENCH SHALL BE AS SHOWN ON PLANS.
2. MINIMUM SLOPE OF PIPE SHALL BE 1/4" PER FOOT.
3. A MINIMUM OF 6" OF EID APPROVED COMPACTED BEDDING MATERIAL UNDER SERVICE CONNECTIONS
4. IF CLEANOUT DOES NOT EXIST, EID RESPONSIBILITY ENDS AT PROPERTY LINE.

ITEM #	DESCRIPTION
①	LOCATION POST – GREEN METAL TEE POST IN UNDEVELOPED AREAS
②	4"x4" CONCRETE PAD, MAXIMUM
③	8" I.D. G5 CONCRETE BOX W/IRON LID MARKED SEWER
④	LOOSE CAP (AFTER TESTING) GEMCO OR APPROVED EQUAL
⑤	LONG-RADIUS SWEEP
⑥	PLUG OR CAP
⑦	WYE, MINIMUM 4"
⑧	PVC PIPE, 4" MIN. DIA.
⑨	TRACING WIRE

<i>EL DORADO IRRIGATION DISTRICT</i>					
<i>SEWER SERVICE CONNECTION</i>					
DRAWN BY A. URTEAGA	SCALE NONE	REVISION 1	DATE 4/15/14	BY TS	EID STANDARD DRAWING NO. <b>S08</b>
APPROVED B. MUELLER	DATE 05/09				

M:\\_STANDARD DESIGN DETAILS CAD\90-SHEET\_SETS\S08B SEWER SERVICE BACKWATER VALVE INSTALLATION.DWG

20140415.130430



**CONSTRUCTION NOTES**

1. THE BACKWATER VALVE INSTALLATION SHALL BE INSTALLED WHERE: (A) PLUMBING FIXTURE LEVELS ARE BELOW THE ELEVATIONS OF THE CURB AT THE POINT WHERE THE BUILDING SEWER CROSSES UNDER THE CURB OR (B) PLUMBING FIXTURES LEVELS ARE BELOW THE ELEVATION OF THE UPSTREAM MANHOLE RIM.
2. SERVICES WITH BACKWATER VALVES SHALL BE IDENTIFIED ON THE CONSTRUCTION PLANS.
3. THIS UNIT IS TO BE OWNED AND MAINTAINED BY THE PROPERTY OWNER. **1**

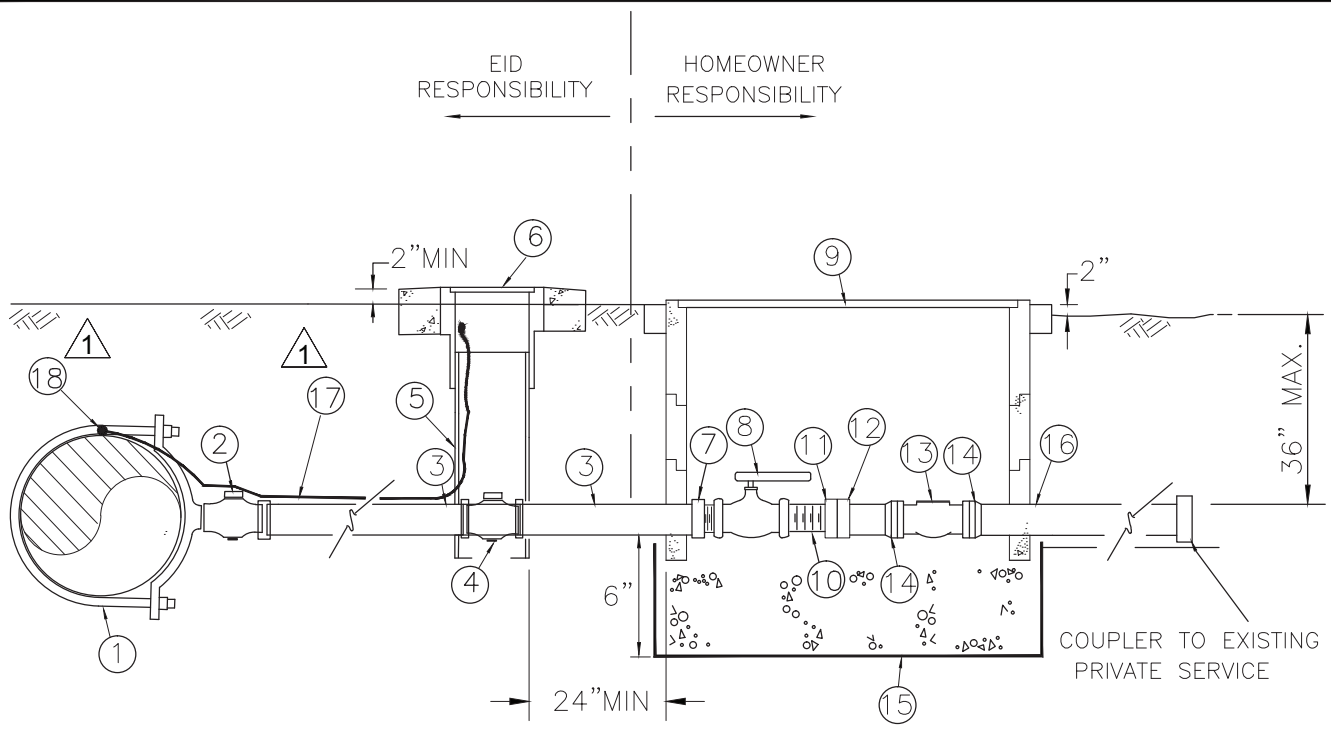
ITEM #	DESCRIPTION
<b>1</b>	STANDARD SEWER SERVICE PER EID DWG S08
<b>2</b>	PVC PIPE
<b>3</b>	E.D.C. STANDARD PLASTIC BACKWATER VALVE, W/ REMOVABLE COVER PLATE. NDS OR APPROVED EQUAL.
<b>4</b>	PVC CAP OR PLUG
<b>5</b>	18"x18" B24 CONCRETE UTILITY BOX
<b>6</b>	STEEL LID MARKED SEWER
<b>7</b>	4"x4" CONCRETE PAD
<b>8</b>	LOCATION POST - GREEN METAL TEE POST IN UNDEVELOPED AREAS
<b>9</b>	3/4 CRUSHED ROCK
<b>10</b>	TRACING WIRE

4. LOCATION OF BACKWATER VALVE SHOWN FOR SCHEMATIC PURPOSES ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD NEAR THE BUILDING; INSTALLED BY PLUMBER AND INSPECTED BY COUNTY ENFORCEMENT. **1**
5. IF CLEANOUT DOES NOT EXIST, EID RESPONSIBILITY ENDS AT PROPERTY LINE.
6. TRACING WIRE SHALL TIE INTO TRACING WIRE LOCATED ON THE MAIN.

<i>EL DORADO IRRIGATION DISTRICT</i>					
<i>SEWER SERVICE BACKWATER VALVE INSTALLATION</i>					
DRAWN BY A. URTEAGA	SCALE NONE	REVISION 1	DATE 4/15/14	BY TS	EID STANDARD DRAWING NO. <b>S08B</b>
APPROVED B. MUELLER	DATE 05/09				

M:\\_STANDARD DESIGN DETAILS\CAD\SHEET\_SETS\S08C PUMPED SEWER SERVICE TO FORCE MAIN.DWG

20151103.104100



CONSTRUCTION NOTE

1. ALL PIPING, VALVES, AND FITTINGS ARE TO BE 2" DIAMETER, MIN. AND BE RATED FOR A MINIMUM OF 150 PSI.
- △ 2. INSTALL TRACING WIRE ON ALL APPURTENANCES/PIPING.

ITEM #	DESCRIPTION	
①	DOUBLE STRAP BRONZE SERVICE SADDLE, 2" F.I.P. CORP STOP INSTALLED ON EXISTING/NEW FORCEMAIN	
②	2" MIP X MIP BALL CORP STOP W/ COMPRESSION FITTING	
③	2" GREEN P.E. TUBING C.T.S. CONTINUOUS	
④	2" BRASS CURB STOP	
⑤	8" C-900 RISER W/ CUT OUTS FOR SERVICE	
⑥	G5 UTILITY BOX W/ IRON LID AND 4" X 4" CONCRETE RING	
⑦	2" CTS COMP. X MIP MALE ADAPTER	
⑧	2" HANDLE TYPE SCH 80 PVC BALL VALVE	
⑨	B36 BOX W/ STEEL LID MARKED SEWER	
⑩	2" SCH 80 PVC NIPPLE	
⑪	2" SCH 80 SOCKET PVC VAN-STONE FLANGE	
⑫	2" SCH 80 THREADED PVC VAN-STONE FLANGE	
⑬	EPOXY COATED RUBBER FLAPPER CHECK VALVE W/ REMOVABLE COVER. APCO 100 OR EQUAL	
⑭	2" COMPANION FLANGE	
⑮	6" THICK 3/4" CRUSHED ROCK	
⑯	2" SCH 80 PVC/PE TUBING	
⑰	TRACING WIRE	△ 1
⑱	WRAP TAPE	△ 1

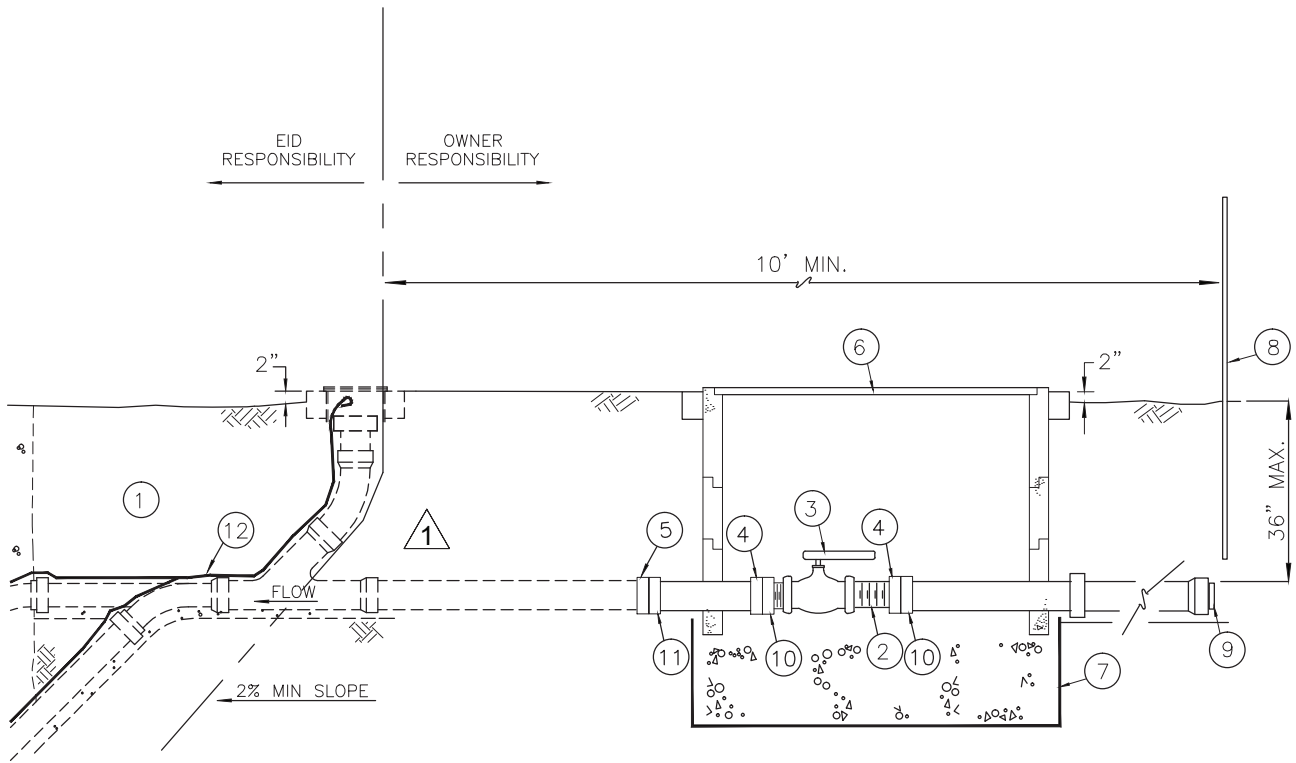
*EL DORADO IRRIGATION DISTRICT*

*PUMPED SEWER SERVICE TO FORCE MAIN*

DRAWN BY L.A. NOTARO	SCALE NONE	REVISION 1	DATE 11/03/15	BY TS	EID STANDARD DRAWING NO. <b>S08C</b>
APPROVED B. MUELLER	DATE 04/14				

M:\\_STANDARD DESIGN DETAILS\CAD\90\_SHEET\_SETS\S08D\_PUMPED SEWER SERVICE TO GRAVITY SEWER.DWG

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CONSTRUCTION NOTE

1. ALL PIPING, VALVES, AND FITTINGS ARE TO BE 2" DIAMETER, MIN. AND BE RATED FOR A MINIMUM OF 100 PSI.
2. INSTALL TRACING WIRE ON ALL APPURTENCANCES.
3. TRACING WIRE SHALL TIE INTO TRACING WIRE LOCATED ON THE MAIN.

ITEM #	DESCRIPTION
①	STANDARD SEWER SERVICE PER EID DWG S08
②	2" SCH 80 PVC NIPPLE
③	2" SCH 80 THREADED PVC BALL VALVE
④	2" SCH 80 SOCKET PVC VAN-STONE FLANGE
⑤	4" SDR-35 SPIGOT X 4" 4" DWV HUB ADAPTER
⑥	B24 UTILITY BOX W/ STEEL LID MARKED SEWER
⑦	6" THICK 3/4" CRUSHED ROCK
⑧	LOCATION POST - GREEN METAL TEE POST IN UNDEVELOPED AREAS
⑨	CAP OR PLUG
⑩	2" SCH 80 THREADED PVC VAN-STONE FLANGE
⑪	4" x 2" SCH 40 PVC BUSHING
⑫	TRACING WIRE

<i>EL DORADO IRRIGATION DISTRICT</i>					
<i>PUMPED SEWER SERVICE TO GRAVITY SEWER</i>					
DRAWN BY A. URTEAGA	SCALE NONE	REVISION 1	DATE 4/15/14	BY TS	EID STANDARD DRAWING NO. <b>S08D</b>
APPROVED B. MUELLER	DATE 05/09	2	10/29/15	TS	