



COMMUNITY DEVELOPMENT AGENCY

TRANSPORTATION DIVISION

<http://www.edcgov.us/DOT/>

PLACERVILLE OFFICES:

MAIN OFFICE:
2850 Fairlane Court, Placerville, CA 95667
(530) 621-5900 / (530) 626-0387 Fax

CONSTRUCTION & MAINTENANCE:
2441 Headington Road, Placerville, CA 95667
(530) 642-4909 / (530) 642-0508 Fax

LAKE TAHOE OFFICES:

ENGINEERING:
924 B Emerald Bay Road, South Lake Tahoe, CA 96150
(530) 573-7900 / (530) 541-7049 Fax

MAINTENANCE:
1121 Shakori Drive, South Lake Tahoe, CA 96150
(530) 573-3180 / (530) 577-8402 Fax

DATE: June 24, 2013

TO: All Prospective Bidders

SUBJECT: Addendum No. 4
Project # 66106 Green Valley Road/Silver Springs Parkway Intersection
Project # 66107 Silver Springs Parkway Realignment Onsite Phase-2
Project # 66114 Green Valley Road/Deer Valley Road Turn Lanes
Joint Trench Composite Drawing for Silver Springs Unit #1
PW 09-30470, CIP No. 76107 & 76114

Submit proposals for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are essential parts of the Contract.

ITEM NO.	LOCATION, PAGE, OR DRAWING NO.	DESCRIPTION OF CHANGE
4.01	Joint Trench Composite Drawing Silver Springs Unit #1 Plans (Plans), SP-243, C-10, P-5	<p>Refer to Response to Bidders' Inquiries No. 5 Item 5.03 and Response to Bidders' Inquiries No. 6 Items 6.06 and 6.08:</p> <ul style="list-style-type: none"> A. The bid quantity for Bid item # 106 "Joint Trench" has been revised. See item 4.06 below. B. Replace sheets 5 through 10 of the Plans with sheets 5 through 10 attached to this Addendum. C. Replace Notes 1, 5, 6, 7, 10 and 17 under DRY UTILITY CONSTRUCTION on sheet 2 of the Plans with the following: <p>"The scope of work for Bid item 106 includes installing conduit for future telephone, CATV, and electrical utilities and gas lines only at the road crossings. The work on sheets 2 through 6 (revised as applicable) includes only the clouded areas. It also includes installing Type G ETS stations and 5lb zinc anodes as shown on revised sheets 7, 8, and 9. Bidders are instructed to refer to sheets 2 through 6 (revised as applicable) for the telephone and CATV conduit sizes, lengths, and locations; revised sheets 7 through 9 for the gas line sizes, lengths and locations and for the number and locations of the Type G ETS stations and 5lb zinc anodes; and sheet 2 for the electrical conduit lengths and revised sheet 10 for the number, size,</p>

		<p>and location of the electrical conduit.”</p> <p>D. No installations are required at locations 57 &58.</p> <p>E. Section10-1.60 “Joint Trench” of the special provisions:</p> <ol style="list-style-type: none"> a. Delete the 4th paragraph. b. Replace the last paragraph of this section with: <p>“The contract price paid per linear foot for joint trench shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, including preconstruction meeting, all coordination of inspections with utility companies and for doing all the work involved in placing the joint trench, including excavation, disposal of excavated material, placement of ducts and pipes, pull ropes, dewatering, backfilling, and compacting the trench, installation of Type G ETS stations and 5lb zinc anodes, and any other items shown within the clouded areas of sheets 2 through 6 and shown on sheets 7 through 10 as revised by Addendum No. 4”.</p>
4.02	Plan # 66106 sheets 3, 5, 6 & 8; Plan # 66107 sheets 5, 7, 9 to 13; C-11, P-6, SP-246	<p>Refer to Response to Bidders’ Inquiries No. 6 Item 6.03:</p> <ol style="list-style-type: none"> (1) The Bid quantity for Item 113 has been revised and the item description includes Type A1-6 curb. See item 4.06 below. (2) Replace the 2nd paragraph on SP-246 of Section 10-1.63 “ Miscellaneous Concrete Construction” with: <ul style="list-style-type: none"> “Stamped and Colored Concrete Paving shall be (Scofield C-31) shadow slate in a running bond brick interlocking pattern.”
4.03	Plan # 66106 sheets 3 & 6; Plan # 66114 sheet 4; C-9, and P-4, SP 204 through SP-211, SP-224 through SP-225	<p>Refer to Response to Bidders’ Inquiries No. 6 Item 6.05:</p> <ol style="list-style-type: none"> (1) The Bid quantity for Item 52 has been revised. See item 4.06 below. (2) The Bid quantities for Items 50 and 51 have been revised and the item descriptions have been clarified. See item 4.06 below. (3) Replace Section 10-1.40 “Keystone Retaining Wall (or Approved Equal)” of the special provisions with Section 10-1.40 attached to this Addendum. (4) In Note 3 of sheet 6 of the 66016 Plans, replace “170 SF” with “230 SF”. In Note 14 of sheet 6 of the Plans, replace “125 SF” with “169 SF”. (5) Section 10-1.50 “Type 6B Retaining Wall” of the special provisions: <ol style="list-style-type: none"> a. Replace the 3rd to last paragraph on SP-225 with: <ul style="list-style-type: none"> “The contract price paid per square foot for retaining wall stem (Type 6B) shall include full compensation for furnishing all

		<p>labor, materials, (except reinforcement), tools, equipment, and incidentals, and for doing all the work involved in constructing the reinforced concrete or reinforced concrete masonry unit retaining wall stem, complete in place, including structure excavation and backfill, as shown on the Plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.”</p> <p>b. Replace the 2nd to last paragraph on SP-225 with:</p> <p>“Measurement and payment of concrete for the footing and reinforcement for the footing and wall stem shall conform to the provisions in Section 51, "Concrete Structures," and Section 52, "Reinforcement," of the Standard Specifications, respectively. Payment for Minor Concrete (Minor Structure – Retaining Wall Type 6B Footing) includes structure excavation and backfill (footing) and no additional compensation shall be allowed therefor.”</p>
4.04	66106 Plan sheets 10 & 11, 66114 Plan sheets 8, 9, & 10, SPL-2, SP-183, C-8 and P-3	<p>Refer to Response to Bidders' Inquiries No. 6 Item 6.09:</p> <ol style="list-style-type: none"> 1) Add Standard Plan T-3B of the 2010 Standard Plans to the Standard Plan List on SPL-2 of the contract documents. 2) <ol style="list-style-type: none"> a. The bid quantity for Temporary Railing (Type K) has been revised. See item 4.06 below. b. Add the following sentence to Section 10-1.30 "Temporary Railing (Type K)" of the special provisions: "Payment for "Temporary Railing (Type K)" will be made each time Temporary Railing (Type K) is moved from one location to another or from one stage to another. Payment will not be made when Temporary Railing (Type K) is moved to accommodate Contractor's operations."
4.05	66016, 66107, and 66114 Plans and SP-234 through SP- 243	<p>Refer to Response to Bidders' Inquiries No. 6 Item 6.10:</p> <ol style="list-style-type: none"> 3) Profile Driveway A on sheet 14 of the 66107 Plans – replace "EID STD DWG #W07" with "EID STD DWG #W09". 4) Note 10 on sheet 5 of the 66114 Plans – replace "SHEET 7" with "SHEET 6". 5) Replace Section 10-1.59 "EID Water and Sanitary Sewer Systems" of the special provisions with Section 10-1.59 attached to this Addendum.

4.06	C-8 through C-11, C10-rev Addendum No.3, and P-3 through P-6 and P-5 rev Addendum No. 3	<p>Replace Pages C-8 through C-11 of Exhibit A “Contractor’s Bid and Bid Price Schedule” of the Agreement including C-10 rev from Addendum No.3 with Pages C-8 rev through C-11 rev attached to this Addendum.</p> <p>Replace Pages P-3 through P-6 of the “Proposal Pay Items and Bid Price Schedule” of the Proposal including P-5 rev from Addendum No.3 with Pages P-3 rev through P-6 rev attached to this Addendum.</p>
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Bidders are instructed to attach Pages C-8 rev through C-11 rev, Exhibit A, Contractor’s Bid and Bid Price Schedule, to the respective page in the original Exhibit A, Contractor’s Bid and Bid Price Schedule, in the Contract Documents book. Attach Page P-3 rev through P-6 rev, Proposal Pay Items and Bid Price Schedule, to the respective page in the original Proposal Pay Items and Bid Price Schedule, in the Contract Documents book. Attach

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Holders who have already mailed their proposal can contact Janel Gifford at (email: Janel.Gifford@edcgov.us) to arrange return of their proposal.

Inform all suppliers and subcontractors as necessary.


The DOT is only sending this addendum by posting on the following website: <http://www.edcgov.us/Government/DOT/Bids.aspx>.

If you are not a Contract Documents Holder, but request a set of documents to bid on this project, you must comply with the requirements of this addendum when submitting your bid.

Attachments:

- Joint Trench Composite Drawing Silver Springs Unit #1 Plans 6 pages
Sheets 5 through 10 revised
- Revised Section 10-1.40 “Keystone Retaining Wall (or Approved 8 pages
Equal)”
- Revised Section 10-1.59 “EID Water and Sanitary Sewer 10 pages
Systems”
- Exhibit A Contractor’s Bid and Bid Price Schedule Pages C-8 rev 4 pages
through C11 rev
- Proposal Pay Items and Bid Price Schedule Pages P-3 rev 4 pages
through P-6 rev

End of Addendum No. 4



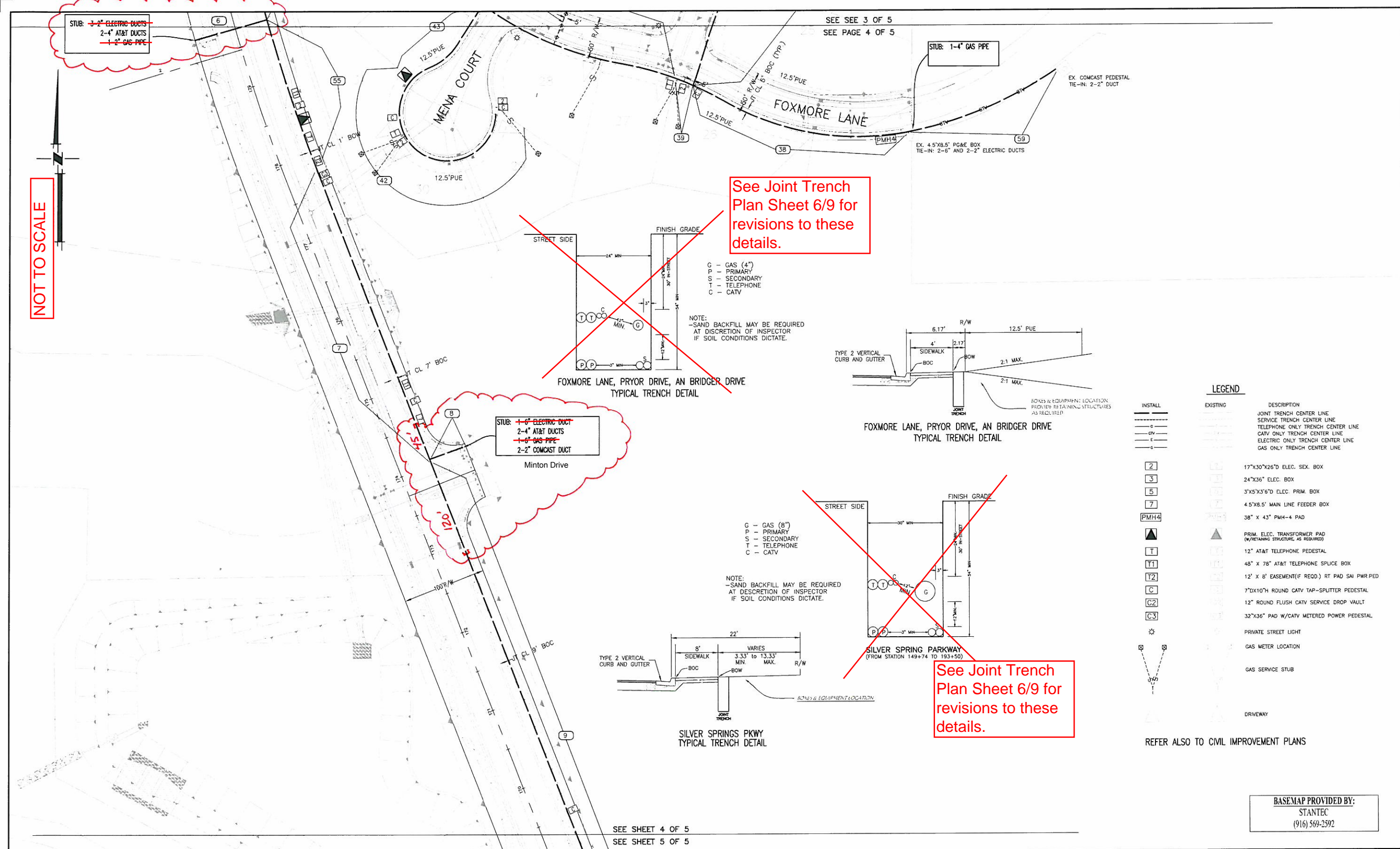
Recommended by:
Janel Gifford, P.E.
Office Engineer

6/24/13
Date



Approved by:
Kimberly A. Kerr
Interim Transportation Director
Acting Community Development Agency Director

6/24/13
Date



LEGEND

INSTALL	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	JOINT TRENCH CENTER LINE
[Symbol]	[Symbol]	SERVICE TRENCH CENTER LINE
[Symbol]	[Symbol]	TELEPHONE ONLY TRENCH CENTER LINE
[Symbol]	[Symbol]	CATV ONLY TRENCH CENTER LINE
[Symbol]	[Symbol]	ELECTRIC ONLY TRENCH CENTER LINE
[Symbol]	[Symbol]	GAS ONLY TRENCH CENTER LINE
[2]	[Symbol]	17"x30"x26"D ELEC. SEX. BOX
[3]	[Symbol]	24"x36" ELEC. BOX
[5]	[Symbol]	3'x5'x3'6"D ELEC. PRIM. BOX
[7]	[Symbol]	4.5'x8.5' MAIN LINE FEEDER BOX
[PMH4]	[Symbol]	38" X 43" PMH-4 PAD
[Symbol]	[Symbol]	PRIM. ELEC. TRANSFORMER PAD (W/RETAINING STRUCTURE AS REQUIRED)
[T]	[Symbol]	12" AT&T TELEPHONE PEDESTAL
[T1]	[Symbol]	48" X 78" AT&T TELEPHONE SPLICE BOX
[T2]	[Symbol]	12' X 8' EASEMENT(F. RECD.) RT PAD SAI PWR PED
[C]	[Symbol]	7"DX10"TH ROUND CATV TAP-SPLITTER PEDESTAL
[C2]	[Symbol]	12" ROUND FLUSH CATV SERVICE DROP VAULT
[C3]	[Symbol]	32"x36" PAD W/CATV METERED POWER PEDESTAL
[Symbol]	[Symbol]	PRIVATE STREET LIGHT
[Symbol]	[Symbol]	GAS METER LOCATION
[Symbol]	[Symbol]	GAS SERVICE STUB
[Symbol]	[Symbol]	DRIVEWAY

REFER ALSO TO CIVIL IMPROVEMENT PLANS

BASEMAP PROVIDED BY:
STANTEC
(916) 569-2592

ALPINE DESIGN CORP.
3007 "T" STREET
SACRAMENTO, CA 95816
OFFICE: 1-916-361-3935
FAX: 1-916-361-3946

JOINT TRENCH COMPOSITE DRAWING
SILVER SPRINGS UNIT #1

DRAWN BY: CN
DESIGN BY: CN
CHECKED BY: WRN
DATE: 1/16/08
SCALE: **NOT TO SCALE**

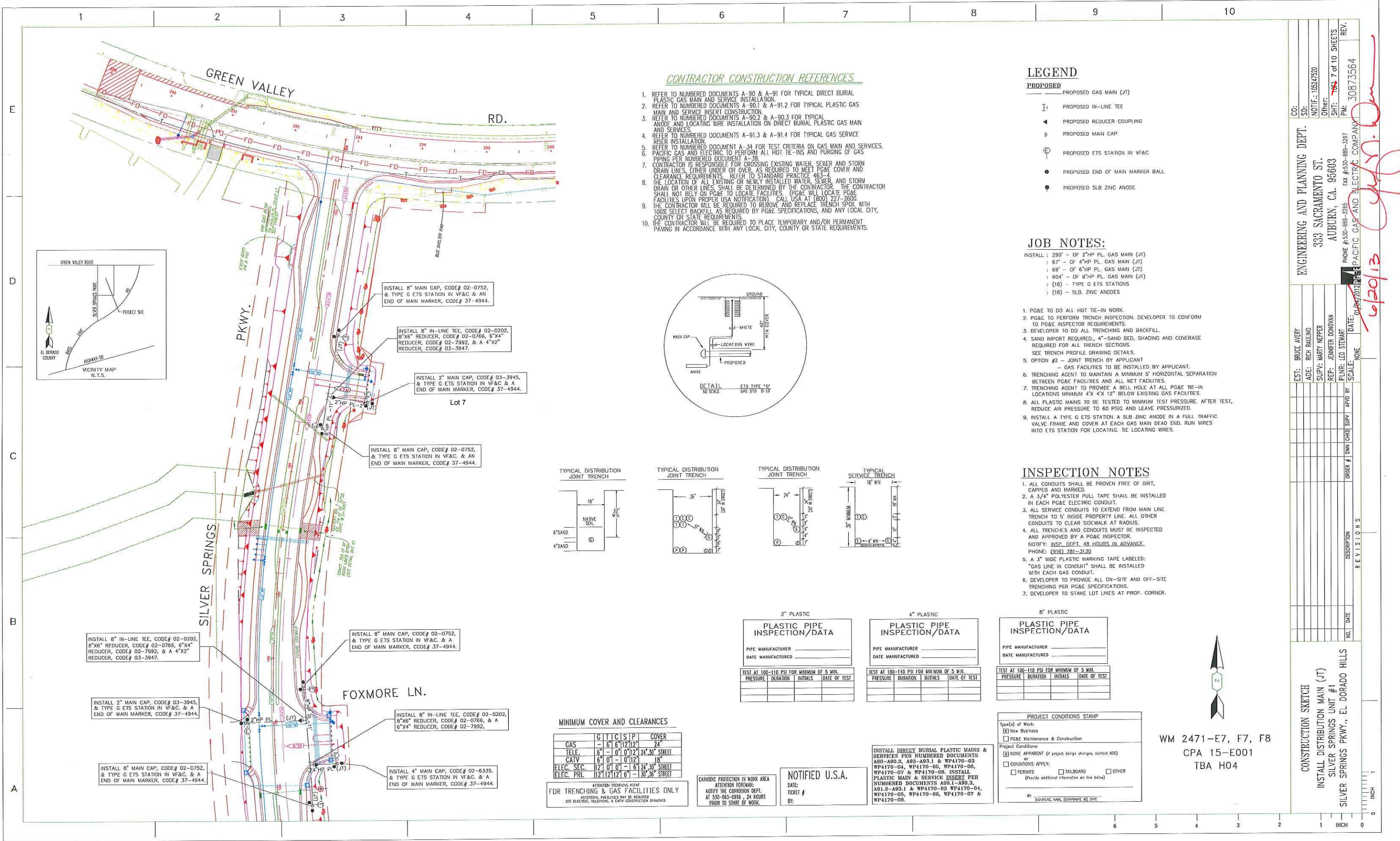
UTILITY CONTACT PERSON

UTILITY	ENGINEER	PHONE NO.
ELEC.	JIM TORKELSON (ALPINE DESIGN)	916-361-3935
TEL.	JERRY SHAMBRE (AT&T TEL.)	530-621-6946
GAS	W.R. NORMAN (ALPINE DESIGN)	916-361-3935
CATV	KIP MILLER (COMCAST CABLE)	916-830-6758
CIVIL	CARIANN E. OLIVER, PE (STANTEC)	916-569-2592
DEV.	BILL SCOTT (SILVER SPRINGS, LLC)	949-586-2066

REVISIONS

NO	DESCRIPTION	DATE	BY
1	REVISED PER PG&E 1ST PLAN CHECKED	04/09/07	CN
2	EARTH WORKS VOLUMES FOR PG&E REVIEW	1/16/08	KK
3	MINOR EDITS TO NOTES FOR BID CLARIFICATION PER EDITS FROM EL DORADO COUNTY	12/6/10	WRN
4	INSTALL CROSSINGS ONLY	1/18/11	
5	For PG&E gas and electrical see pln sheets 6 to 9	1/25/12	

SHEET 5 OF 10



CONTRACTOR CONSTRUCTION REFERENCES

- REFER TO NUMBERED DOCUMENTS A-90 & A-91 FOR TYPICAL DIRECT BURIAL PLASTIC GAS MAIN AND SERVICE INSTALLATION.
- REFER TO NUMBERED DOCUMENTS A-90.1 & A-91.2 FOR TYPICAL PLASTIC GAS MAIN AND SERVICE INSERT CONSTRUCTION.
- REFER TO NUMBERED DOCUMENTS A-90.2 & A-90.3 FOR TYPICAL ANODE AND LOCATING WIRE INSTALLATION ON DIRECT BURIAL PLASTIC GAS MAIN AND SERVICES.
- REFER TO NUMBERED DOCUMENTS A-91.3 & A-91.4 FOR TYPICAL GAS SERVICE RISER INSTALLATION.
- REFER TO NUMBERED DOCUMENT A-34 FOR TEST CRITERIA ON GAS MAIN AND SERVICES.
- PACIFIC GAS AND ELECTRIC TO PERFORM ALL HOT TIE-INS AND PURGING OF GAS PIPING PER NUMBERED DOCUMENT A-38.
- CONTRACTOR IS RESPONSIBLE FOR CROSSING EXISTING WATER, SEWER, AND STORM DRAIN LINES, EITHER UNDER OR OVER, AS REQUIRED TO MEET PG&E COVER AND CLEARANCE REQUIREMENTS. REFER TO STANDARD PRACTICE 463-4.
- THE LOCATION OF ALL EXISTING OR NEWLY INSTALLED WATER, SEWER, AND STORM DRAIN OR OTHER LINES, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT RELY ON PG&E TO LOCATE FACILITIES. (PG&E WILL LOCATE PG&E FACILITIES UPON PROPER USA NOTIFICATION). CALL USA AT (800) 227-2600.
- THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE TRENCH SPOIL WITH 100% SELECT BACKFILL AS REQUIRED BY PG&E SPECIFICATIONS, AND ANY LOCAL CITY, COUNTY OR STATE REQUIREMENTS.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE TEMPORARY AND/OR PERMANENT PAVING IN ACCORDANCE WITH ANY LOCAL CITY, COUNTY OR STATE REQUIREMENTS.

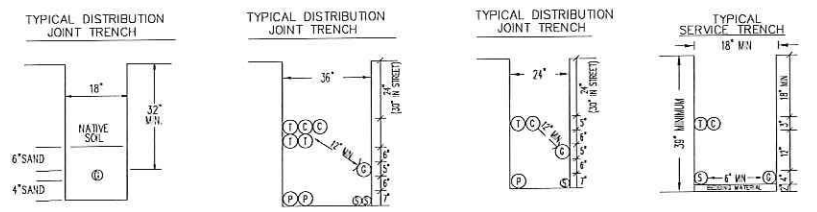
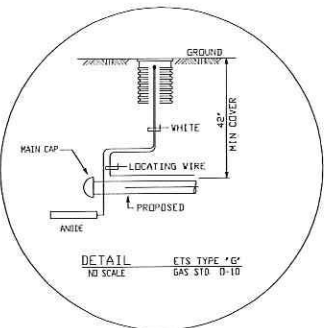
LEGEND

- PROPOSED**
- PROPOSED GAS MAIN (JT)
 - PROPOSED IN-LINE TEE
 - PROPOSED REDUCER COUPLING
 - PROPOSED MAIN CAP
 - PROPOSED ETS STATION IN VF&C
 - PROPOSED END OF MAIN MARKER BALL
 - PROPOSED 5LB ZINC ANODE

JOB NOTES:

- INSTALL : 290' - OF 2"HP PL. GAS MAIN (JT)
 : 67' - OF 4"HP PL. GAS MAIN (JT)
 : 69' - OF 6"HP PL. GAS MAIN (JT)
 : 604' - OF 8"HP PL. GAS MAIN (JT)
 : (16) - TYPE G ETS STATIONS
 : (16) - 5LB. ZINC ANODES

- PG&E TO DO ALL HOT TIE-IN WORK.
- PG&E TO PERFORM TRENCH INSPECTION. DEVELOPER TO CONFORM TO PG&E INSPECTOR REQUIREMENTS.
- DEVELOPER TO DO ALL TRENCHING AND BACKFILL.
- SAND IMPORT REQUIRED, 4"-SAND BED, SHADING AND COVERAGE REQUIRED FOR ALL TRENCH SECTIONS. SEE TRENCH PROFILE DRAWING DETAILS.
- OPTION #2 - JOINT TRENCH BY APPLICANT - GAS FACILITIES TO BE INSTALLED BY APPLICANT.
- TRENCHING AGENT TO MAINTAIN A MINIMUM 5' HORIZONTAL SEPARATION BETWEEN PG&E FACILITIES AND ALL WET FACILITIES.
- TRENCHING AGENT TO PROVIDE A BELL HOLE AT ALL PG&E TIE-IN LOCATIONS MINIMUM 4'X 4'X 12" BELOW EXISTING GAS FACILITIES.
- ALL PLASTIC MAINS TO BE TESTED TO MINIMUM TEST PRESSURE. AFTER TEST, REDUCE AIR PRESSURE TO 60 PSIG AND LEAVE PRESSURIZED.
- INSTALL A TYPE G ETS STATION A 5LB ZINC ANODE IN A FULL TRAFFIC VALVE FRAME AND COVER AT EACH GAS MAIN DEAD END. RUN WIRES INTO ETS STATION FOR LOCATING. TIE LOCATING WIRES.



INSPECTION NOTES

- ALL CONDUITS SHALL BE PROVEN FREE OF DIRT, CAPPED AND MARKED.
- A 3/4" POLYESTER PULL TAPE SHALL BE INSTALLED IN EACH PG&E ELECTRIC CONDUIT.
- ALL SERVICE CONDUITS TO EXTEND FROM MAIN LINE TRENCH TO 5' INSIDE PROPERTY LINE. ALL OTHER CONDUITS TO CLEAR SIDEWALK AT RADIUS.
- ALL TRENCHES AND CONDUITS MUST BE INSPECTED AND APPROVED BY A PG&E INSPECTOR. NOTIFY: INSP. DEPT. 48 HOURS IN ADVANCE. PHONE: (916) 781-3130
- A 3" WIDE PLASTIC MARKING TAPE LABELED: "GAS LINE IN CONDUIT" SHALL BE INSTALLED WITH EACH GAS CONDUIT.
- DEVELOPER TO PROVIDE ALL ON-SITE AND OFF-SITE TRENCHING PER PG&E SPECIFICATIONS.
- DEVELOPER TO STAKE LOT LINES AT PROP. CORNER.

2" PLASTIC PLASTIC PIPE INSPECTION/DATA				4" PLASTIC PLASTIC PIPE INSPECTION/DATA				8" PLASTIC PLASTIC PIPE INSPECTION/DATA			
PIPE MANUFACTURER _____				PIPE MANUFACTURER _____				PIPE MANUFACTURER _____			
DATE MANUFACTURED _____				DATE MANUFACTURED _____				DATE MANUFACTURED _____			
TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.				TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.				TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.			
PRESSURE	DURATION	INITIALS	DATE OF TEST	PRESSURE	DURATION	INITIALS	DATE OF TEST	PRESSURE	DURATION	INITIALS	DATE OF TEST

MINIMUM COVER AND CLEARANCES

	G	T	C	S	P	COVER
GAS	-	6"	6"	12"	12"	24"
TELE.	6"	-	0"	0"	12"	24", 30" STREET
CATV	6"	0"	-	0"	12"	18"
ELEC. SEC.	12"	0"	0"	-	6"	24", 30" STREET
ELEC. PRL.	12"	12"	12"	6"	-	30", 36" STREET

ATTENTION DESIGN AGENT FOR TRENCHING & GAS FACILITIES ONLY
 ADDITIONAL FACILITIES MAY BE REQUIRED
 SEE ELECTRIC, TELEPHONE, & CATV CONSTRUCTION DRAWINGS

CATHODIC PROTECTION IN WORK AREA
 ATTENTION FOREMAN
 NOTIFY THE CORROSION DEPT.
 AT 530-863-0936, 24 HOURS
 PRIOR TO START OF WORK

NOTIFIED U.S.A.
 DATE: _____
 TICKET # _____
 BY: _____

INSTALL DIRECT BURIAL PLASTIC MAINS & SERVICES PER NUMBERED DOCUMENTS A90-A90.2, A93-A93.1 & WP4170-03, WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08. INSTALL PLASTIC MAIN & SERVICES INSERT PER NUMBERED DOCUMENTS A90.1-A90.3, A91.2-A93.1 & WP4170-03, WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08.

PROJECT CONDITIONS STAMP

Type(s) of Work:
 New Business
 PG&E Maintenance & Construction

Project Conditions:
 NONE APPARENT (If project design changes, contact AG) or
 CONDITIONS APPLY:

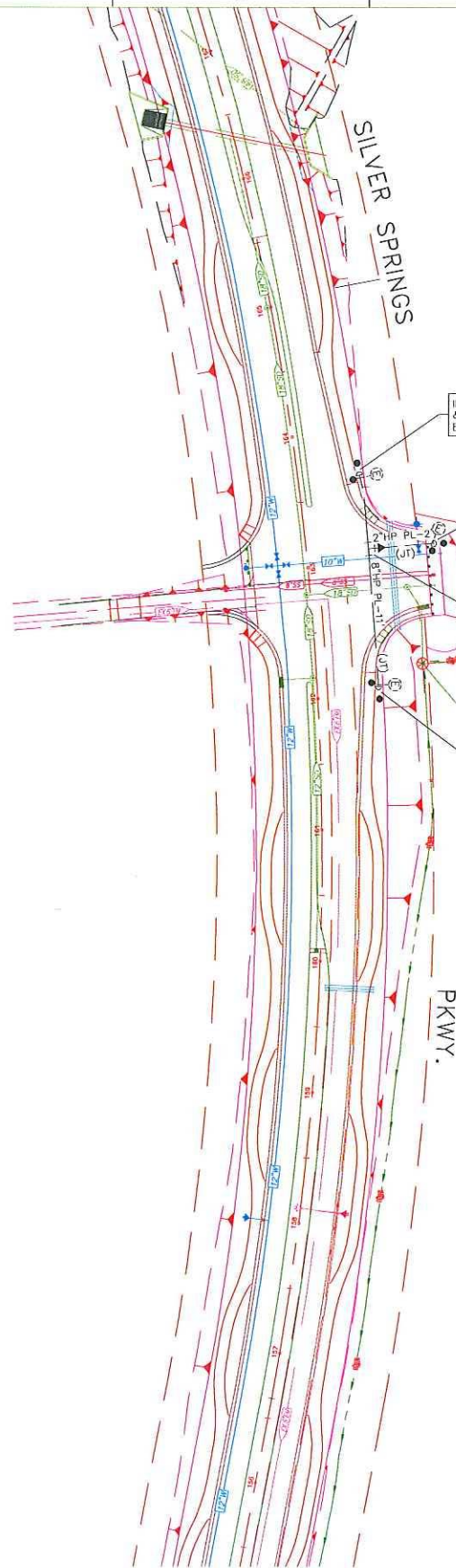
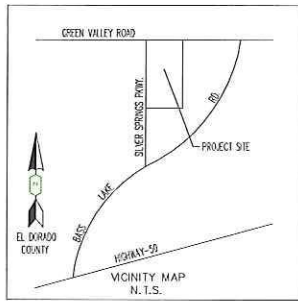
PERMITS TALBOARD OTHER
 (Provide additional information on line below)

BY: _____ DATE: _____

WM 2471-E7, F7, F8
 CPA 15-E001
 TBA H04

ENGINEERING AND PLANNING DEPT.
 333 SACRAMENTO ST.
 AUBURN, CA. 95603
 PHONE #530-888-3265 FAX #530-888-3297
 ORDER # / DRAWING NO. / SUPPLY / APPROVED BY / SCALE: NONE
 EST: BRUCE AVERY ADE: RICH RULLINO SUPV: MARY NEPPER REP: JENNEFER DONOVAN PLNR: LEO STEWART
 CO: _____ SO: _____ NOTIF: 105247520 Other: _____ SHT: 7 of 10 SHEETS P.M.: 30873564
 DATE: 04/24/2012
 REVISIONS

CONSTRUCTION SKETCH
 INSTALL DISTRIBUTION MAIN (JT)
 SILVER SPRINGS UNIT #1
 SILVER SPRINGS PKWY., EL DORADO HILLS

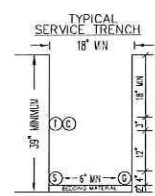
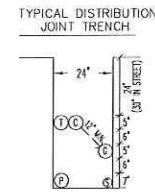
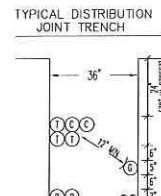
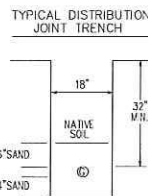
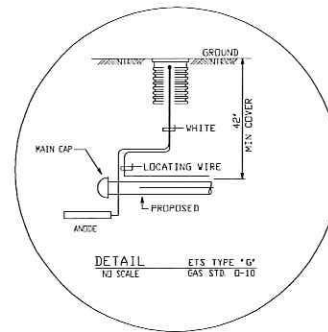


CONTRACTOR CONSTRUCTION REFERENCES

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- REFER TO NUMBERED DOCUMENTS A-90.1 & A-91.2 FOR TYPICAL PLASTIC GAS MAIN AND SERVICE INSERT CONSTRUCTION.
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- REFER TO NUMBERED DOCUMENTS A-91.3 & A-91.4 FOR TYPICAL GAS SERVICE RISER INSTALLATION.
- REFER TO NUMBERED DOCUMENT A-34 FOR TEST CRITERIA ON GAS MAIN AND SERVICES.
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- THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE TRENCH SPOIL WITH 100% SELECT BACKFILL AS REQUIRED BY PG&E SPECIFICATIONS, AND ANY LOCAL CITY, COUNTY OR STATE REQUIREMENTS.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE TEMPORARY AND/OR PERMANENT PAVING IN ACCORDANCE WITH ANY LOCAL CITY, COUNTY OR STATE REQUIREMENTS.

LEGEND

- PROPOSED**
- PROPOSED GAS MAIN (JT)
 - PROPOSED IN-LINE TEE
 - PROPOSED REDUCER COUPLING
 - PROPOSED MAIN CAP
 - PROPOSED ETS STATION IN VF&C
 - PROPOSED END OF MAIN MARKER BALL
 - PROPOSED 5LB ZINC ANODE



MINIMUM COVER AND CLEARANCES

	G	T	C	S	P	COVER
GAS	-	6"	6"	12"	12"	24"
TELE.	6"	-	0"	0"	12"	24" 30" STREET
CATV	6"	0"	-	0"	12"	18"
ELEC. SEC.	12"	0"	0"	-	6"	24" 30" STREET
ELEC. PRI.	12"	12"	12"	6"	-	30" 36" STREET

ATTENTION TRENCHING AGENT
FOR TRENCHING & GAS FACILITIES ONLY
ADDITIONAL FACILITIES MAY BE REQUIRED
SEE ELECTRIC, TELEPHONE, & CIVIL CONSTRUCTION DRAWINGS

CATHODIC PROTECTION IN WORK AREA
ATTENTION FOREMAN:
NOTIFY THE CORROSION DEPT.
AT 530-863-0996, 24 HOURS
PRIOR TO START OF WORK.

NOTIFIED U.S.A.

DATE: _____
TICKET # _____
BY: _____

2" PLASTIC PLASTIC PIPE INSPECTION/DATA

PIPE MANUFACTURER: _____
DATE MANUFACTURED: _____

TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.			
PRESSURE	DURATION	INITIALS	DATE OF TEST

8" PLASTIC PLASTIC PIPE INSPECTION/DATA

PIPE MANUFACTURER: _____
DATE MANUFACTURED: _____

TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.			
PRESSURE	DURATION	INITIALS	DATE OF TEST

INSTALL DIRECT BURIAL PLASTIC MAINS & SERVICES PER NUMBERED DOCUMENTS A90-A90.2, A93-A93.1 & WP4170-03 WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08. INSTALL PLASTIC MAIN & SERVICE INSERT PER NUMBERED DOCUMENTS A90.1-A90.3, A91.2-A91.1 & WP4170-03 WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08.

PROJECT CONDITIONS STAMP

Type(s) of Work:
 New Business
 PG&E Maintenance & Construction

Project Conditions:
 NONE APPARENT (If project design changes, contact A&E)
 CONDITIONS APPLY:

PERMITS (Provide additional information on line below)
 TAILBOARD OTHER

BY: _____ DATE: _____

WM 2471-E7, F7, F8
CPA 15-E001
TBA H04

CONSTRUCTION SKETCH
INSTALL DISTRIBUTION MAIN (JT)
SILVER SPRINGS UNIT #1
SILVER SPRINGS PKWY., EL DORADO HILLS

EST: BRUCE AERY
ADE: RICH RAUJNO
SUPPLY: MARTY NEPPER
REF: JENNIFER DONOVAN
PLINR: LEO STUMART
SCALE: NONE
DATE: 01/04/2012
ORDER # DWN CHKD SUPV APVD BY

ENGINEERING AND PLANNING DEPT.
333 SACRAMENTO ST.
AUBURN, CA. 95603
PHONE #530-889-3285 FAX #530-889-3397
PACIFIC GAS AND ELECTRIC COMPANY

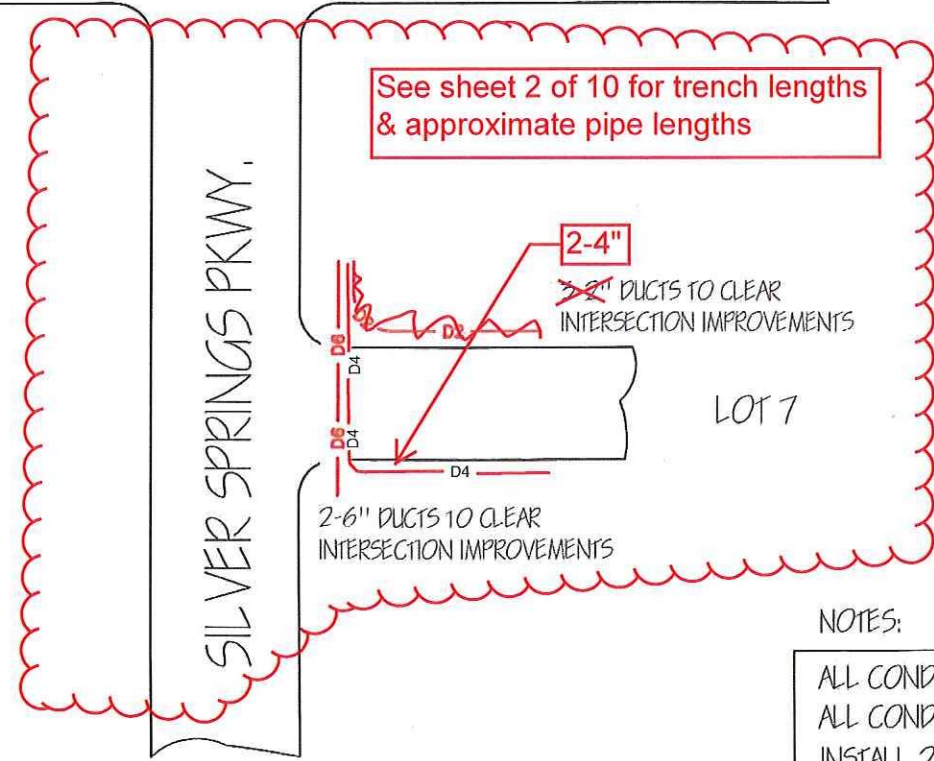
CO: _____
SD: _____
NOTIF: 105247520
Other: _____
SHT: 308 9 of 10 SHEETS
PMT: 30873564
REV. _____

6/20/13
[Signature]

"Joint Trench Composite Drawing Silver Springs Unit #1"

El Dorado, CA

GREEN VALLEY Rd.

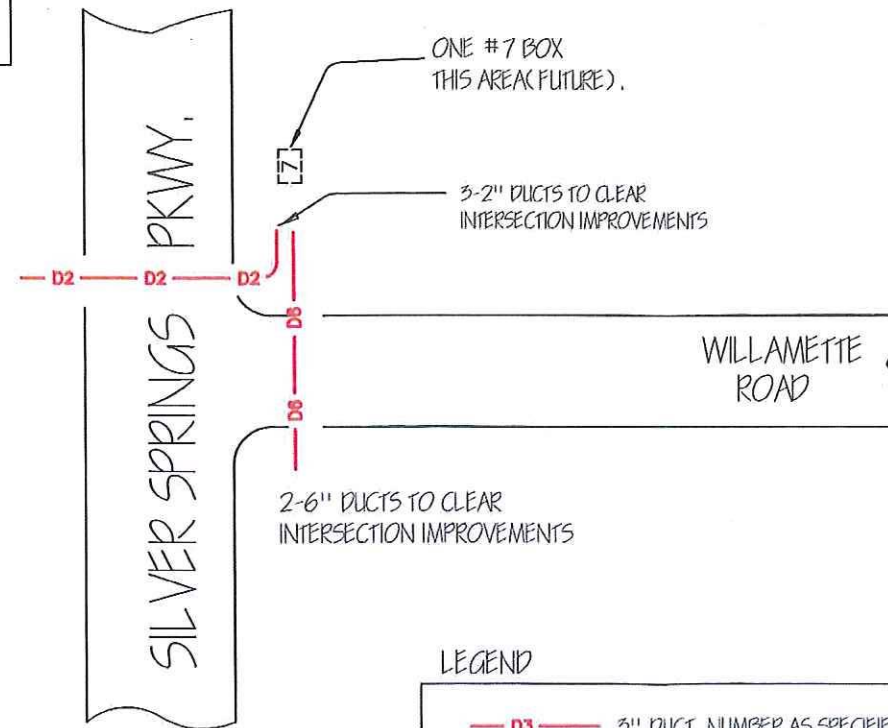
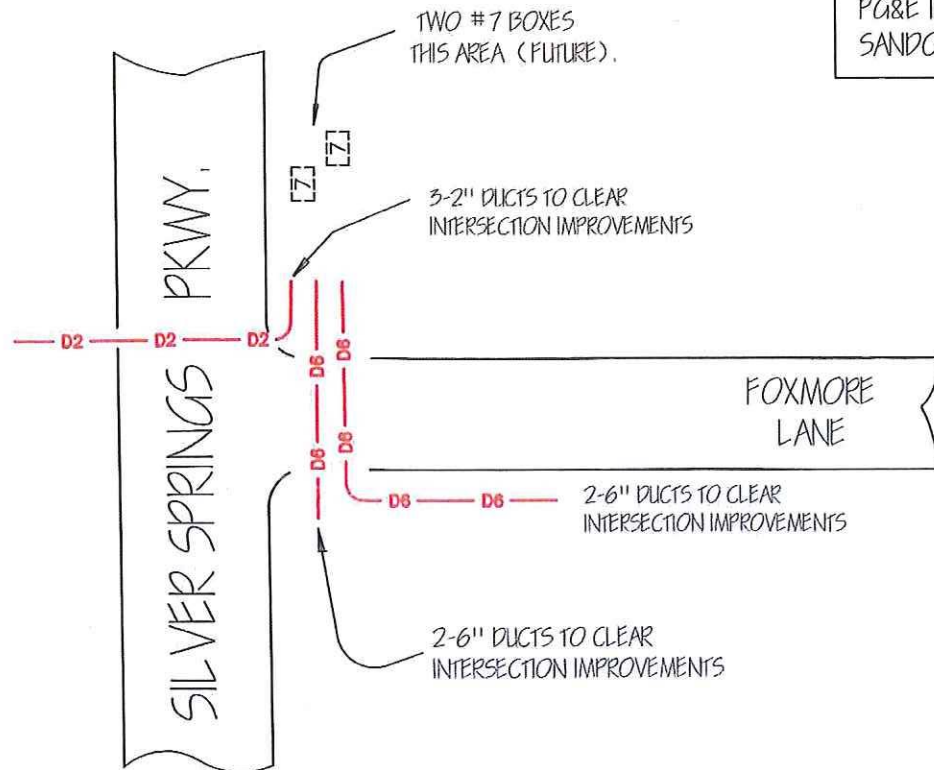
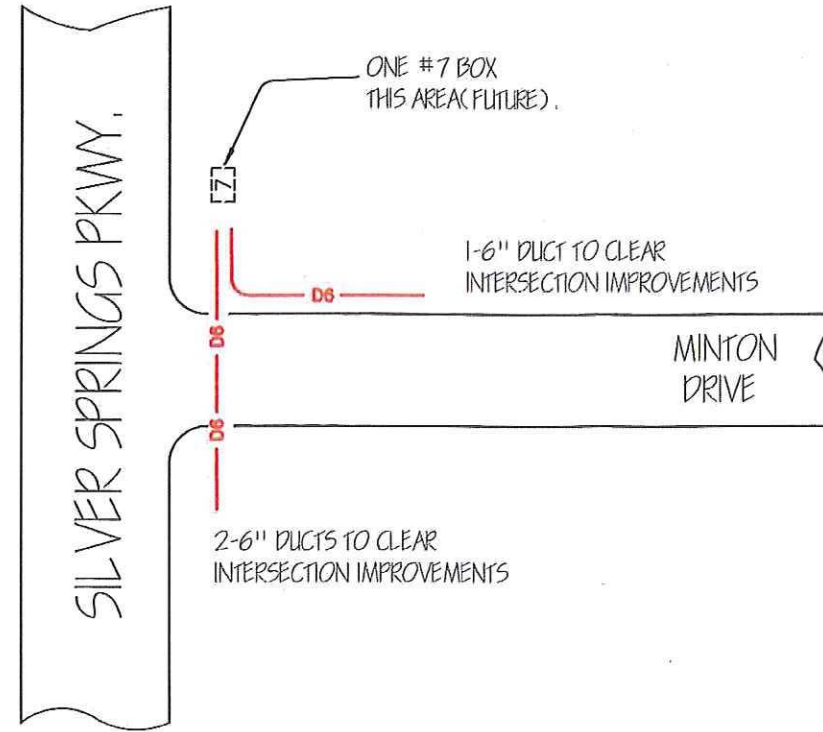


NOTES:

ALL CONDUITS TO BE CAPPED WITH RIGID CAPS,
ALL CONDUIT ENDS TO HAVE STUB MARKERS,
INSTALL 2500LB PULL TAPE IN ALL DUCTS.

PG&E INSPECTOR TO DETERMINE ALL DUCTS ARE
EXTENDED BEYOND IMPROVEMENTS.

PG&E INSPECTOR TO APPROVE ALL PLACEMENT,
SANDOVER AND BACKFILL MATERIAL.



LEGEND

D3	3" DUCT, NUMBER AS SPECIFIED.
D6	6" DUCT, NUMBER AS SPECIFIED.
[Z]	4'6" x 8'6" FUTURE ENCLOSURE



SILVER SPRINGS
GREEN VALLEY RD & SILVER SPRINGS PKWY
INSTALL CONDUIT CROSSINGS

Revised on 6/18/13
for Addendum No. 4

CO:	NO.:	NOTIF.:	OTHER:	SHT:	REV.
				10 of 10	41536217

EST:	ACUNA
AGE:	KEMP
SUPV:	NEPPER
REP:	DONOVAN
PLNR:	
SCALE:	N/S
DATE:	10/14/2011
PG#:	4

PACIFIC GAS AND ELECTRIC COMPANY

6/20/13 *[Signature]*

10-1.40 KEYSTONE RETAINING WALL (OR APPROVED EQUAL)

GENERAL

Description

This work shall consist of furnishing and construction of a KEYSTONE Retaining Wall System or approved equal in accordance with these specifications and with the lines, grades, design, and dimensions shown on the Plans. The configuration of the Drain Fill described in this special provision shall govern over what is shown on the Plans for the “¾” clean crushed rock and fabric”.

Construction drawings and design calculations for an alternative retaining wall system shall be prepared by a registered professional engineer and shall bear his signature and seal. The Contractor shall submit the construction drawings and design calculations to the engineer for his approval prior 3 weeks prior to beginning construction of any portion of the wall.

Certification

Contractor shall submit a Manufacturer's certification, prior to start of work, that the retaining wall system components meet the requirements of this specification.

- a. The Contractor's submittal package shall include but not limited to actual test results for tension/creep, durability/aging, construction damage, geogrid/facing connection, pullout, and quality control.
- b. Contractor shall submit certification, prior to start of work, that the retaining wall system (modular concrete units and specific geogrid):
 - i) has been successfully utilized on a minimum of five (5) similar projects, i.e., height, soil fill types, erection tolerances, etc.; and
 - ii) has been successfully installed on a minimum of 1 hundred thousand (100,000) square feet of retaining walls.
- c. Contractor shall submit a list of previous projects totaling of 50,000 square feet or more where the specific retaining wall system has been used successfully. Contact names and telephone numbers shall be listed for each project.
- d. Contractor shall submit a test report documenting strength of specific modular concrete unit and geogrid reinforcement connection. The maximum design tensile load of the geogrid shall be equal to the laboratory tested ultimate strength of geogrid / facing unit connection at a maximum normal force limited by the “Hinge Height” of the structure divided by a safety factor of 1.5. The connection strength evaluation shall be performed in accordance with NCMA test method SRWU-1.

- e. If the Contractor proposes to construct a wall other than the wall shown on the Plans, the Contractor shall submit engineering plans prepared by a civil engineer experienced with Mechanically Stabilized Earth retaining wall systems and registered in the State of California. The engineering designs, techniques, and material evaluations shall be in accordance with the KEYSTONE Design Manual, 1994, NCMA Design Guidelines For Segmental Retaining Walls, 1993 or the AASHTO Standard Specifications for Highway Bridges, Section 5.8, 1993 Interim, whichever is applicable.

Keystone (or approved equal) Retaining Wall Design Parameters

	Cohesion (c') (pcf)	Friction Angle (degrees)	Unit Weight (pcf)
Reinforced Fill	0	35	125
Retained Soil	0	30	125
Foundation Fill or Native Subgrade	0	30	125

PRODUCT

Definitions

Structural Geogrid - a structural element formed by a regular network of integrally connected tensile elements with apertures of sufficient size to allow interlocking with surrounding soil, rock, or earth and function primarily as reinforcement.

Modular Unit - a concrete retaining wall element machine made from portland cement, water, and aggregates.

Drain Fill - drainage aggregate which is placed within and immediately behind the modular concrete units.

Reinforced Backfill - compacted soil, which is placed within the reinforced soil volume, as outlined on the Plans and noted on the Plans as "Backfill Soil".

Modular Concrete Retaining Wall Units

Modular concrete units shall conform to the following architectural requirements:

Face Color - standard manufacturers' color to match native soil color.

Face Finish - sculptured rock face in angular multi-planer configuration. Other face finishes will not be allowed without written approval of owner.

Bond Configuration - running with bonds nominally located at midpoint vertically adjacent units, in both straight and curved alignments.

Exposed surfaces of units shall be free of chips, cracks or other imperfections when viewed from a distance of 10 feet under diffused lighting.

Modular concrete units shall conform to the following material requirements:

Cement - Materials shall conform to the following applicable specifications.

- a. Portland Cement - ASTM C 150
- b. Modified Portland Cement - Portland cement conforming to ASTM C 150, modified as follows. Limestone - calcium carbonate, with a minimum 85% content, may be added to the cement, provided these requirements of C 150 as modified are met; (1) limitation on insoluble residue 1.5%; (2) limitation on air content of mortar - volume percent, 22% maximum; and (3) limitations of loss of ignition - 7%
- c. Blended Cements - ASTM C 618
- d. Pozzolans - ASTM C 618
- e. Blast Furnace Slag Cement - ASTM C 989

Aggregates - aggregates shall conform to the following specifications, as applicable.

- a. Normal Weight Aggregates - ASTM C 33
- b. Lightweight Aggregates - ASTM C 331

Other Constituents - air entraining agents, coloring pigments, integral water repellents, finely ground silica, and other constituents shall be previously established as suitable for use in modular concrete retaining wall units. They shall conform to applicable ASTM standards or, shall be shown by test or experience to be not detrimental to the durability of the modular concrete units or any material customarily used in retaining wall construction.

Modular concrete units shall conform to the following structural and geometric requirements:

compressive strength = 3000 psi minimum;

absorption = **13%** maximum for standard weight aggregates; **15%** maximum for medium weight, and **18%** maximum for light weight aggregates;

unit depth - 21 inches minimum;

unit width to height ratio = 2.25: 1;

unit weight - 90 lbs. / unit minimum for standard weight aggregates

inter-unit shear strength - 1500 plf minimum at 2 psi normal pressure;

geogrid/unit peak connection strength -1000 plf minimum at 2 psi normal force

maximum horizontal gap between erected units shall be - 1/2 inch.

Modular concrete units shall conform to the following constructability requirements:

vertical setback = 1/8 inch per course (near vertical) or 1 inch per course per the design drawings;

alignment and grid positioning mechanism - fiberglass pins, two per unit minimum;

Shear Connectors

Strength of shear connectors between vertical adjacent units shall be applicable over a design temperature of 10 degrees F to + 100 degrees F. Shear connectors shall be 1/2 inch diameter thermoset isophthalic polyester resin-pultruded fiberglass reinforcement rods. Connectors shall have a minimum flexural strength of 128,000 psi and short beam shear of 6,400 psi.

Shear connectors shall be capable of holding the geogrid in the proper design position during grid pre-tensioning and backfilling.

Base Leveling Pad Material

Material shall consist of a compacted crushed stone base or non-reinforced concrete as shown on the Plans. The leveling pad shall be a minimum of 6 inches thick. As an option, concrete may be 3 inches thick with a compacted granular base for a total thickness of 6 inches.

Drain Fill

Drain fill shall be placed within cores of, between, and behind units to meet this requirement.

Drain fill construction shall be composed of either:

- 1) A minimum 12-inch-thick layer of Class 2 Permeable Filter Material (Caltrans Specification 68-1.025) placed directly behind the wall. Envelope rock in

nonwoven geotextile filter fabric such as Miarfi 140NC, or equivalent.

OR

- 2) A minimum 12-inch-thick layer of washed, crushed rock with 100 percent passing the ¾ inch sieve and less than 5 percent passing the No. 4 sieve. Envelope rock in nonwoven geotextile filter fabric such as Miarfi 140NC, or equivalent.

In addition to placement within and between cores Drain fill shall have the following configuration:

- 1) Place the drain fill directly behind the wall.
- 2) Extend rock fill from the wall base to within 8 inches of the top of wall.
- 3) Place a minimum of 4-inch-diameter perforated pipe at the base of the wall, inside the drain fill and fabric, with perforations placed down.
- 4) Place pipe at a gradient at least 1 percent to direct water away from the wall by gravity to a drainage facility or grade to drain.

Reinforced Backfill

Reinforced backfill shall be free of debris and meet the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
2 inch	100
¾ inch	0-25
No. 4	100 - 20
No. 40	0 - 60
No. 200	0 - 35

Plasticity Index (PI) <10 and liquid limit <40.

The maximum aggregate size shall be limited to ¾ inch unless field tests have been or will be performed to evaluate potential strength reductions to the geogrid design due to damage during construction.

Material can be site excavated soils where the above requirements can be met. Unsuitable soils for backfill (high plastic clays or organic soils) shall not be used in the backfill or in the reinforced soil mass.

Contractor shall submit reinforced fill sample and laboratory test results to the Architect/Engineer for approval prior to the use of any proposed reinforced fill material.

Geogrid

T_a, Allowable Tensile Design Load, shall be determined as follows:

$$\mathbf{T_a = T_{cr}/(FD*FC*FS)}$$

T_a shall be evaluated based on a 75 year design life.

T_{cr}, Creep Limited Tensile Load

Tcr shall be determined from 10,000 hour creep testing performed in accordance with ASTM D5262.

FD, Factor for Durability/Aging

FD shall be determined from polymer specific durability testing covering the range of expected soil environments.

FC, Factor for Construction Damage

FC shall be determined from product specific construction damage testing performed in accordance with GRI-GG4. Test results shall be provided for each product to be used with project specific or more severe soil type.

FS, Overall Factor of Safety

FS shall be 1.5 unless otherwise noted.

The maximum design tensile load of the geogrid shall not exceed the laboratory tested ultimate strength of the geogrid/facing unit connection as limited by the "Hinge Height" divided by a factor of safety of 1.5. The connection strength testing and computation procedures shall be in accordance with NCMA test methods.

Soil Interaction Coefficient, Ci

Ci values shall be determined per GRI:GG5 at a maximum 0.75 inch displacement.

Manufacturing Quality Control

The geogrid manufacturer shall have a manufacturing quality control program that includes QC testing for each 40,000 SF of production, each lot, or each production day. The QC testing shall include:

- Tensile Modulus
- Specific Gravity
- Melt Flow Index (PP&HDPE)
- Molecular Weight (PETP)

EXECUTION

Excavation

Contractor shall excavate to the lines and grades shown on the construction drawings. Architect/Engineer will inspect the excavation and approve prior to placement of leveling material or fill soils.

Over-excavation of deleterious soils and replacement with suitable fill will be paid at unit cost rates.

Base Leveling Pad

Leveling pad material(s) shall be placed to the lines and grades shown on the construction drawings, to a minimum thickness of 6 inches.

Soil leveling pad material shall be compacted to a minimum of 95% standard or 90% modified Proctor.

Leveling pad shall be prepared to insure full contact to the base surface of the concrete units.

KEYSTONE (or approved equal) Unit Installation

First course of units shall be placed on the leveling pad, and alignment and level checked. Pins or molded surfaces of modular concrete units shall be used for alignment control.

Position vertically adjacent modular concrete units as recommended by the Manufacturer.

Maximum stacked vertical height of wall units, prior to wall drain fill and backfill placement and compaction, shall not exceed two courses.

Whole, or cut, units on curves and corners shall be erected with running bond approximately centered on units above and below.

Cap units shall be glued to underlying units with an adhesive recommended by the manufacturer.

Structural Geogrid Installation

Geogrid shall be oriented with the highest strength axis perpendicular to the wall alignment.

Geogrid reinforcement shall be placed at the elevations and to the extent shown on the construction drawings or as directed by the Engineer.

The geogrid shall be laid horizontally on compacted backfill. Place the next course of modular concrete units over geogrid. The geogrid shall be pulled taut, and anchored prior to backfill placement on the geogrid.

Geogrid reinforcements shall be continuous throughout their embedment lengths. Spliced connections between shorter pieces of geogrid is not allowed unless pre-approved by the Architect/Engineer prior to construction.

Reinforced Backfill Placement

Reinforced backfill shall be placed, spread, and compacted in such a manner that minimizes the development of slack in the geogrid.

Reinforced backfill shall be placed and compacted in lifts not to exceed 8 inches where hand compaction is used or 12 inches where heavy compaction equipment is used.

Reinforced backfill shall be compacted to 95% of the maximum density as determined by ASTM D695. The moisture content of the backfill material prior to and during compaction shall be uniformly distributed throughout each layer and shall be within 2 percentage points dry of optimum.

Only lightweight, hand-operated equipment shall be allowed within 3 feet from the tail of the modular concrete unit.

Tracked construction equipment shall not be operated directly upon the geogrid reinforcement. A minimum fill thickness of 6 inches is required prior to operation of tracked vehicles over the geogrid. Tracked vehicle turning should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid.

Rubber tired equipment may pass over geogrid reinforcement at slow speeds, less than 10 MPH. Sudden braking and sharp turning shall be avoided.

At the end of each day's operation, the Contractor shall slope the last lift of reinforced backfill away from the wall units to direct runoff away from wall face. The Contractor shall not allow surface runoff from adjacent areas to enter the wall construction site.

MEASUREMENT AND PAYMENT

Keystone retaining wall (or equal) will be measured and paid for by the square foot. Regardless of the type of earth retaining structure actually constructed, the square foot area for payment will be based on the length and vertical height of each section of wall constructed. The vertical height of each section will be taken as the difference in elevation on the outer face from the bottom of the lowermost face element or top of footing to the top of wall profile with pay limits as shown on the Plans.

The contract price paid per square foot for Keystone retaining wall (or equal) at each location shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the earth retaining structure, including perforated pipe complete in place, as shown on the Plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.59 EID WATER AND SANITARY SEWER SYSTEMS

EID water and sanitary sewer system materials, construction, disinfection and testing, shall conform to the latest edition of the El Dorado Irrigation District (EID) “Design and Construction Standards”, and these special provisions and the 66106 and 66107 project Plans. EID Design and Construction Standards, including the EID Technical Specifications, are available through the EID Engineering Department, 2890 Mosquito Rd., Placerville, CA 95677 (530) 622-4513 and can be obtained from the following website: <http://www.eid.org/index.aspx> under the ‘Doing Business with EID menu.’

Attention is directed to “El Dorado Irrigation District Standard Drawing No. W10A, “Unstable Subgrade,” at the EID website. The Contractor may be required to remove unsuitable material in the trenches, as directed by the Engineer or EID Inspector. If the Engineer determines subgrade contains unsuitable material, then the removal of unsuitable material and the placement of stabilizing material, per EID Standard Drawing No. W10A will be paid for as Extra Work at Force Account.

Attention is directed to Section 5-1.41 “Supplemental Project Information” and Section 5-1.34 “Utilities” of these special provisions.

Attention is directed to “Trench and Excavation Safety” of these special provisions regarding requirements and payment associated with installing, sheeting, shoring and bracing, sloping the sides of the trenches and excavations 5 feet deep and greater or equivalent method for construction of EID facility improvements. Full compensation for Trench and Excavation Safety for trenches and excavations less than 5 feet deep shall be considered as included in the contract price paid for the item requiring trench and excavation less than 5 feet deep.

RELOCATE BLOW-OFF AND VALVE BOX (EID WATER)

Measurement

The relocate blow-off and valve box work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of relocate blow-off valve will be measured as each as shown on the Plans.

Payment

All work involved in dewatering and trench subgrade preparation for relocate blow-off and valve box items shall be considered as included in the price paid for the Water Main (EID Water) and no additional payment shall be made therefore.

The contract price paid for the various relocate blow-off and valve box items includes, but is not limited to, submittals, the removal and installation of blow-off valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, blow-off valve, valve enclosure, valve extension, valve box, and valve supports, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

ADJUST VALVE BOX TO GRADE (EID WATER AND SEWER)

Measurement

The adjust valve box work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of adjust valve box to grade will be measured as each as shown on the Plans.

Payment

All work involved in dewatering and trench subgrade preparation for adjust valve box to grade shall be considered as included in the price paid for either the Water Main (EID Water), Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer), as applicable, and no additional payment shall be made therefore.

The contract price paid for the various adjust valve box to grade items includes, but is not limited to, submittals, the removal and re-installation of the existing valve box, excavation, backfill, valve enclosure, valve extension, valve cover, and valve supports, and all other appurtenances to make a complete installation, for the respective portion of the EID water line or sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

WATER MAIN (EID WATER)

Measurement

The water main work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of water main will be measured in linear feet of pipe, complete in place, along the centerline of the pipe from the points of connection to the end of new pipe. The length of pipe will be measured without deduction for valves or fittings installed by the Contractor. Pipe placed in excess of the length designated will not be paid for.

Payment

The contract price paid for the various water main items includes, but is not limited to, submittals, the furnishing and installation of piping, excavation, dewatering, bedding, pipe laying, backfilling, CLSM, concrete or other import, compacting, trench subgrade preparation, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, outlets and stub-outs, fittings, gripper rings, locating wire, warning tape, polyethylene wrap, painting or coating, thrust blocks, testing and disinfection, furnishing submittals to EID and the Engineer, road maintenance and pavement replacement per County permitting requirements, and all other appurtenances to make a complete pipeline installation, for the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

BLOW-OFF VALVE (EID WATER)

Measurement

The blow-off valve work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of blow-off valve will be measured as each as shown on the Plans and as designated by the Engineer.

Payment

All work involved in dewatering and trench subgrade preparation for blow-off valves shall be considered as included in the price paid for the Water Main (EID Water) and no additional payment shall be made therefore.

The contract price paid for the various blow-off valve items includes, but is not limited to, the furnishing and installation of blow-off valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, furnishing submittals to EID and the Engineer, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

TEE PIPE CONNECTIONS (EID WATER)

Measurement

The tee pipe connection work to be performed is listed by size, type and other as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of tee pipe connection will be measured as each as shown on the Plans, the Bid Schedule, and as designated by the Engineer.

Payment

The contract price paid for the various tee pipe connection items includes, but is not limited to, the furnishing and installation of tee pipe connection assembly, excavation, backfill, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, piping, tees, isolation valves, flange kits, thrust blocks, polyethylene wrap, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

GATE VALVE (EID WATER)

Measurement

The gate valve work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards, and the Bid Schedule of these contract documents. Quantities of gate valve will be measured as each as shown on the Plans, the Bid Schedule, and as designated by the Engineer.

Payment

All work involved in dewatering and trench subgrade preparation for gate valves shall be considered as included in the price paid for the Water Main (EID Water) and no additional payment shall be made therefore.

The contract price paid for the various gate valve items includes, but is not limited to, the furnishing and installation of gate valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, valve enclosure, valve extension, valve box, and valve supports, furnishing submittals to EID and the Engineer, polyethylene plastic film wrap, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

CROSS PIPE CONNECTION (EID WATER)

Measurement

The cross pipe connection work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards, and the Bid Schedule of these contract documents. Quantities of cross pipe connection will be measured as each as shown on the Plans, the Bid Schedule, and as designated by the Engineer.

Payment

The contract price paid for the various cross pipe connection items includes, but is not limited to, the furnishing and installation of cross pipe connection assembly, excavation, backfill, trench subgrade preparation, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, piping, tees, isolation valves, flange kits, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

AIR RELEASE VALVE (EID WATER)

Measurement

The air release valve work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of air release valve will be measured as each as shown on the Plans, the Bid Schedule, and as designated by the Engineer.

Payment

All work involved in dewatering and trench subgrade preparation for air release valves shall be considered as included in the price paid for the Water Main (EID Water) and no additional payment shall be made therefore.

The contract price paid for the various air release valve items includes, but is not limited to, the furnishing and installation of 1-inch and 2-inch air release valve assemblies, excavation, backfill, piping, tees, concrete, isolation valves, flange kits, air valve, valve enclosure, valve extension, valve box, and valve supports, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID water line work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

WATER SERVICE BOX (EID WATER)

The Contractor shall install potable water services up to and including the angle meter stop and associated enclosures. Installation of Meter Boxes will not be required as part of this project. The Water Service Box work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards (available at www.eid.org), and the Bid Schedule of these contract documents. The quantity of water services will be measured by the unit as determined from actual count in place.

All work involved in dewatering, and trench subgrade preparation for water service with one meter box shall be considered as included in the price paid for the Water Main (EID Water) and no additional payment shall be made therefore.

The contract unit price paid for the various sizes of water service with one service box shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing water services and water service box, complete in place, including water service connection to the respective portion of the EID water line work, furnishing submittals to EID and the Engineer, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

FIRE HYDRANT (EID WATER)

Installation of fire hydrant and connections to existing EID water pipes shall be performed as shown on the EID Design and Construction Standards, and as shown on the Contract Plans. The quantity of fire hydrant will be measured by the unit as determined from actual count in place.

Payment

The contract unit price paid for fire hydrant shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing fire hydrant assemblies, complete in place, including excavation, backfill, concrete, trench subgrade preparation, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, fittings, gripper rings, tees, valves, lateral water pipe, locating wire, warning

tape, disinfection, polyethylene wrap, placement of blue pavement marker, thrust blocks, furnishing submittals to EID and the Engineer, and all other appurtenances, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

REMOVE EXISTING & CONSTRUCT NEW SANITARY SEWER BLOW-OFF (EID SEWER)

Measurement

The remove existing and construct new sanitary sewer blow-off work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of remove existing and construct new sanitary sewer blow-off valve will be measured as each as shown on the Plans, the Bid Schedule, and as designated by the Engineer.

Payment

All work involved in dewatering and trench subgrade preparation for blow-off shall be considered as included in the price paid for either the Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer) and no additional payment shall be made therefore.

The contract price paid for the various remove existing and construct new sanitary sewer blow-off work shall include, but not be limited to, the removal and installation of blow-off valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, blow-off valve, valve enclosure, valve extension, valve box, and valve supports, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

REMOVE EXISTING & CONSTRUCT NEW SANITARY SEWER ARV (EID SEWER)

Measurement

The remove existing and construct new sanitary sewer air release valve work to be performed is listed by size, type or whatever information is necessary for identification. Quantities of remove existing and construct new sanitary sewer air release valve will be measured as each as shown on the EID Design and Construction Standards, Plans, the Bid Schedule, and as designated by the Engineer.

Payment

All work involved in dewatering and trench subgrade preparation for ARV shall be considered as included in the price paid for either the Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer) and no additional payment shall be made therefore.

The contract price paid for the various remove existing and construct new sanitary sewer air release valve work shall include, but not be limited to, the removal and

installation of air release valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, valve enclosure, valve extension, valve box, and valve supports, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

ADJUST SEWER MANHOLE TO GRADE (EID SEWER)

General

Summary

This work includes lowering frame and cover before paving or cold planing, then raising frame and cover to grade after paving.

Adjust frames and covers of existing sewer manholes, junction structures or other facilities to grade under Section 15-2.05, "Reconstruction," of the Standard Specifications, details shown on the Plans, and as shown on the EID Design and Construction Standards.

Construction

Lower frames and covers of existing facilities before paving or cold planing or replacing asphalt concrete surfacing. Temporarily fill utility depressions with HMA (Type A) before opening the lane to public traffic.

Adjust frames and covers of existing facilities to grade as shown on the Plans after completion of paving activities.

Payment

All work involved in dewatering and trench subgrade preparation for adjust sewer manhole to grade shall be considered as included in the price paid for either the Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer) and no additional payment shall be made therefore.

The contract unit price paid for adjust sewer manhole to grade (EID Sewer) includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, furnishing submittals to EID and the Engineer, and for doing all the work involved in lowering and raising frames and cover to grade, complete in place, including concrete and HMA (Type A), as shown on the Plans, as specified in the EID Design and Construction Standards, Standard Specifications and these special provisions, and as directed by the Engineer.

SANITARY SEWER (EID SEWER)

The sanitary sewer pipeline work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of sanitary sewer pipeline will be measured in linear feet of pipe, complete in place, along the centerline of the pipe from the points of connection to the end of new pipe. The length of pipe will be measured without deduction for valves or fittings installed by the Contractor. Pipe placed in excess of the length designated will not be paid for.

Payment

The contract price paid for the various sanitary sewer pipeline items includes, but is not limited to, the furnishing and installation of sewer pipe, including access, warning tape installation, grading, excavation, bedding, dewatering, pipe laying, backfilling, concrete or other import, trench subgrade preparation, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, tie-ins, testing (including video and mandrel), furnishing submittals to EID and the Engineer, and all other work for a complete pipe installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

FORCE MAIN PIPELINE (EID SEWER)

Measurement

The force main pipeline work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents. Quantities of force main pipeline will be measured in linear feet of pipe, complete in place, along the centerline of the pipe from the points of connection to the end of new pipe. The length of pipe will be measured without deduction for valves or fittings installed by the Contractor. Pipe placed in excess of the length designated will not be paid for.

Payment

The contract price paid for the various force main pipeline items includes, but is not limited to, the furnishing and installation of sewer pipe, including access, warning tape installation, grading, excavation, dewatering, bedding, pipe laying, polyethylene wrap, backfilling, concrete or other import, trench subgrade preparation, removal and disposal of excess excavated material, restoration of damaged surfaces and property, final cleanup, concrete thrust blocks, tees, fittings, locating wire, outlets and stub-outs, testing and disinfecting, furnishing submittals to EID and the Engineer, and all other work for a complete pipe installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineer.

INSTALL SANITARY SEWER CLEANOUT (EID SEWER)

Measurement

Sanitary sewer cleanout work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards, the Bid Schedule of these contract documents, and as shown on the Plans. Quantities of sanitary sewer cleanout will be measured as each as shown on the Plans.

Payment

All work involved in dewatering and trench subgrade preparation for cleanout shall be considered as included in the price paid for either the Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer) and no additional payment shall be made therefore.

The contract price paid for the various sanitary sewer cleanout items will be made by applying the contract unit price to the number of units actually installed including access, grading, excavation, backfill, appurtenances, furnishing submittals to EID and the Engineer, and other work for a complete cleanout installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the EID Design and Construction Standards, Standard Specifications, and these special provisions, and as directed by the Engineers.

BLOW-OFF VALVE (EID SEWER)

Measurement

The blow-off valve work to be performed is listed by size, type and other information as shown in the EID Design and Construction Standards and the Bid Schedule of these contract documents . Quantities of blow-off valve will be measured as each as shown on the Plans.

Payment

All work involved in dewatering and trench subgrade preparation for blow-off valve shall be considered as included in the price paid for either the Sanitary Sewer (EID Sewer) or Force Main Pipeline (EID Sewer) and no additional payment shall be made therefore.

The contract price paid for the various blow-off valves shall include, but not be limited to, the furnishing and installation of blow-off valve assembly, excavation, backfill, piping, tees, isolation valves, flange kits, blow-off valve, valve enclosure, valve extension, valve box, and valve supports, furnishing submittals to EID and the Engineer, and all other appurtenances to make a complete installation, for the respective portion of the EID sanitary sewer work, as shown on the Plans, and as specified in the Standard EID Design and Construction Standards, Specifications, and these special provisions, and as directed by the Engineer.

TESTING AND DISINFECTION (EID WATER AND SEWER)

Includes, all labor, permits, licenses, certifications, submittals, equipment, and materials to provide testing and disinfection, and disposal of all flush water associated with the pipelines and appurtenances for the respective EID water and sewer main work, as applicable, and as shown on the EID Design and Construction Standards. The flush water must be free of disinfectant and must meet all applicable county, state, and federal standards before being discharged into any creek or waterway, or off-hauled to another location for proper disposal. Full compensation for testing and disinfection shall be considered as included in the various items of work requiring testing and disinfection and no additional payment will be made therefore.

TIE-IN CONNECTIONS (EID WATER AND SEWER)

Includes, but not limited to, the tying-in of the new pipelines into the existing EID transmission mains, trenching, bedding, pipe laying, backfilling, CLSM, concrete or other import, compacting, outlets and stub-outs, fittings, gripper rings, tees, locating wire, warning tape, polyethylene wrap, road maintenance pavement replacement per County permitting requirements, and all other appurtenances to correctly tie-in the pipeline for the respective EID water line work, per EID's standards and specifications and as shown on the EID Design and Construction Standards. Full compensation for tie-in connections shall be considered as included in the various items of work requiring tie-in connections and no additional payment will be made therefore.

**EXHIBIT A
CONTRACTOR'S BID AND BID PRICE SCHEDULE**

**PROJECT #66106: GREEN VALLEY ROAD/SILVER SPRINGS PARKWAY INTERSECTION,
PROJECT #66107: SILVER SPRINGS PARKWAY REALIGNMENT ONSITE PHASE-2,
PROJECT #66114: GREEN VALLEY ROAD/DEER VALLEY ROAD TURN LANES,
JOINT TRENCH COMPOSITE DRAWING FOR SILVER SPRINGS UNIT #1**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
1	P 070012	Progress Schedule (Critical Path Method)	LS	1		
2	071301	Temporary Fence	LF	1,340		
3	071325	Temporary Fence (Type ESA)	LF	4,895		
4	P 074019	Prepare Storm Water Pollution Prevention Plan	LS	1		
5	074016	Construction Site Management	LS	1		
6	074029	Temporary Silt Fence	LF	736		
7	074038	Temporary Drainage Inlet Protection	EA	21		
8	074056	Rain Event Action Plan	EA	20	\$500	\$10,000
9	074057	Storm Water Annual Report	EA	3	\$2,000	\$6,000
10	074058	Storm Water Sampling and Analysis Day	EA	10		
11	P 120090	Construction Area Signs	LS	1		
12	P 120090A	Construction Project Information Signs	LS	1		
13	120100	Traffic Control System	LS	1		
14	120120	Road Barricades	LF	414		
15	120120A	12' Road Barricade Gate	EA	1		
16	120149	Temporary Pavement Marking (Paint)	SQFT	116		
17	120159	Temporary Traffic Stripe (Paint)	LF	18,257		
18	120165	Surface Mounted Tubular Marker Channelizer	EA	29		
19	120120A	Temporary Type III Barricade	EA	7		
20	120300	Temporary Pavement Markers	EA	3,960		
21	128650	Portable Changeable Message Signs	SWD	1,262		
22	129000	Temporary Railing (Type K)	LF	4,980		
23	129110	Temporary Crash Cushion Module (Sand Filled)	EA	56		
24	129110A	Temporary Crash Cushion Module (Water Filled)	EA	36		
25	150000A	Relocate 4" Blow-Off & Valve Box-Water (EID Water)	EA	1		
26	150000B	Remove Existing & Construct New 2" Sanitary Sewer Blowoff (EID Sewer)	EA	1		
27	150000C	Remove Existing & Construct New 2" Sanitary Sewer ARV (EID Sewer)	EA	1		
28	150000D	Adjust Valve Box to Grade (EID Water & Sewer)	EA	5		
29	150206	Abandon Culvert	CY	5		
30	150605	Remove Fence	LF	2,656		
31	150646	Remove Barricade	EA	1		
32	150685A	Modify Irrigation Facilities and Maintain Landscaping	LS	1		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
33	150710	Remove Traffic Stripes, Pavement Markings & Markers	LS	1		
34	150742	Remove Roadside Signs	EA	10		
35	152320	Reset Roadside Sign - One Post	EA	10		
36	152317	Reset Roadside Sign - Two Post	EA	2		
37	152370	Relocate Mailbox	EA	1		
38	152430A	Adjust Catch Basin Double Caltrans Type GO to Grade (Inlet)	EA	6		
39	152430B	Adjust Type 4 AC Curb Inlet w/ Pelican Gallery to Grade (Inlet)	EA	1		
40	152434	Adjust Riser to Grade (2", 4" & Telephone)	EA	5		
41	152440A	Adjust Storm Drain Manhole to Grade	EA	9		
42	152475	Adjust Sewer Manhole to Grade (EID Sewer)	EA	4		
43	153103	Cold Plane Asphalt Concrete Pavement	SQYD	1,611		
44	P 160101	Clearing and Grubbing	LS	1		
45	160120	Remove Trees	EA	61		
46	170101	Develop Water Supply	LS	1		
47	F 190101	Roadway Excavation	CY	26,000		
48	P 190116A	Prepare Fugitive Dust Control Plan	LS	1		
49	P 190116	Prepare Asbestos Dust Mitigation Plan	LS	1		
50	192037	Structure Excavation (Keystone Retaining Wall or equal)	CY	25		
51	193013	Structure Backfill (Keystone Retaining Wall or equal)	CY	29		
52	197020	Keystone Retaining Wall (or Equal)	SQFT	399		
53	F 198010	Imported Borrow	CY	15,700		
54	200001A	Highway Planting (Sod)	LS	1		
55	203021	Fiber Rolls	LF	17,970		
56	203039	Rolled Erosion Control Product (Turf Reinforcement Mat)	SQYD	523		
57	203106	Erosion Control (Type D)	SQYD	39,895		
58	208304A	2" Water Service with one Service Box (EID Water)	EA	5		
59	208310A	3" PVC Irrigation Sleeve, Schedule 80	LF	646		
60	208310B	4" PVC Irrigation Sleeve, Schedule 80	LF	605		
61	208310C	8" PVC Irrigation Sleeve, Schedule 80	LF	605		
62	260201	Class 2 Aggregate Base	CY	12,444		
63	390132	Hot Mix Asphalt (Type A)	TON	9,242		
64	394002	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD	14		
65	394073	Place Hot Mix Asphalt Dike (Type A)	LF	3,540		
66	F 510502	Minor Concrete (Minor Structure-Retaining Wall Type 6B Footing)	CY	4		
67	513551	Retaining Wall Stem (Type 6B)	SQFT	161		
68	F 520103	Bar Reinforcing Steel (Retaining Wall)	LB	700		
69	566011	Roadside Sign - One Post	EA	46		
70	620060	12" Storm Drain HDPE	LF	1,029		
71	620080	15" Storm Drain HDPE	LF	70		
72	620100	18" Storm Drain HDPE	LF	1,354		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
73	620140	24" Storm Drain HDPE	LF	66		
74	665022	24" Corrugated Steel Pipe (0.109" thick)	LF	96		
75	665717	18" Corrugated Steel Pipe (0.109" thick)	LF	59		
76	667057A	35" x 24" Corrugated Steel Pipe Arch (0.079" thick)	LF	60		
77	680933A	1" x 18" HDPE Subdrain	LF	4,746		
78	690104	12" Corrugated Steel Pipe Downdrain	LF	45		
79	692003	12" Entrance Taper	EA	2		
80	692301A	12" Anchor Assembly	EA	8		
81	705011	18" Steel Flared End Section	EA	2		
82	705019A	35" x 24" Steel Flared End Section	EA	1		
83	705307	15" Alternative Flared End Section	EA	1		
84	705315	24" Alternative Flared End Section	EA	4		
85	707050	Inlet- Caltrans Type GO	EA	21		
86	707050A	Inlet - El Dorado County Type 4AC Curb Inlet w/ Pelican Gallery (115C)	EA	1		
87	707050B	Inlet - Median Inlet 18" x 18"	EA	11		
88	707050C	Inlet - El Dorado County Standard Grated Inlet (115A)	EA	3		
89	717001A	4" Force Main PVC-C900, CL 150 (EID Sewer)	LF	82		
90	717001B	8" Sanitary Sewer PVC - SDR 35 (EID Sewer)	LF	251		
91	717001C	10" Water Main (incl. fittings) PVC, C900 CL 150 (EID Water)	LF	535		
92	717001D	10" Water Main (incl. fittings) PVC, C900 CL 200 (EID Water)	LF	20		
93	717001E	12" Water Main (incl. fittings) PVC, C900, CL 150 (EID Water)	LF	4,420		
94	717001F	Install Sanitary Sewer Cleanout to Grade (EID Sewer)	EA	4		
95	717001G	2" Force Main Blowoff Valve (EID Sewer)	EA	1		
96	717001H	DELETED				
97	717001J	4" Blowoff Valve (EID Water)	EA	11		
98	717001N	12" X 10" Tee (EID Water)	EA	4		
99	717001Q	12" X 10" Cross (EID Water)	EA	2		
100	717001T	10" Gate Valve (EID Water)	EA	8		
101	717001U	12" Gate Valve (EID Water)	EA	13		
102	717001V	1" Air Release Valve (EID Water)	EA	3		
103	717001W	2" Air Release Valve (EID Water)	EA	1		
104	719305A	48" Storm Drain Manhole	EA	9		
105	719305B	60" Storm Drain Manhole	EA	1		
106	719999	Joint Trench	LF	1,116		
107	721010A	Rock Inlet/Outlet Protection (RSP Backing No. 1)	CY	24		
108	721011A	Rock Lined Ditch (RSP Backing No. 1)	CY	490		
109	721011B	Rock Lined Ditch (RSP Facing)	CY	415		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
110	F	731502A	Minor Concrete (Curb Ramp, Gutter Depression, Driveway, Sidewalk, Bus Shelter Pad, Cross Gutter and V-Gutter)	CY	584	
111	F	731502B	Minor Concrete (Bus Bay)	CY	98	
112	F	731504	Minor Concrete (Curb and Gutter)	CY	589	
113	F	731501	Minor Concrete (Median Curb and Type A1-6 Curb)	CY	285	
114	F	731530A	Stamped and Colored Concrete Paving	CY	76	
115		800051	Fence (Type BW and Type WM, Metal Post and Wood Post)	LF	1,822	
116		820108	Delineator Class 2	EA	27	
117		820112	Marker (Culvert)	EA	21	
118		820141	Object Marker - Type K-1	EA	9	
119		833000A	Metal Fence (42")	LF	102	
120		833000B	Metal Fence (70")	LF	800	
121		833080	Concrete Barrier (Type K)	LF	80	
122		839521	Cable Railing	LF	31	
123		840504	4" Thermoplastic Traffic Stripe	LF	10,168	
124		840505	6" Thermoplastic Traffic Stripe	LF	15,570	
125		840506	8" Thermoplastic Traffic Stripe	LF	3,280	
126		840515	Thermoplastic Pavement Marking	SQFT	3,064	
127		840653	Paint Traffic Stripe	LF	215	
128		850111	Pavement Marker (Retroreflective, Type D)	EA	853	
129	P	860201	Signal and Lighting	LS	1	
130		860703	3" Conduit and Signal Interconnect Cable (SIC)	LF	800	
131		993002	Fire Hydrant (EID Water)	EA	5	
132		999100	Trench and Excavation Safety	LS	1	
133		999101	Trench and Excavation Safety (EID Bid Items 25 through 28, 42, 58, 89 through 103)	LS	1	
134	P	999990	Mobilization	LS	1	
TOTAL BID						

F Final Pay Quantity
 P Item Eligible for Partial Payment
 LS Lump Sum
 SWD Sign working day

PROPOSAL PAY ITEMS AND BID PRICE SCHEDULE

**PROJECT #66106: GREEN VALLEY ROAD/SILVER SPRINGS PARKWAY INTERSECTION,
PROJECT #66107: SILVER SPRINGS PARKWAY REALIGNMENT ONSITE PHASE-2,
PROJECT #66114: GREEN VALLEY ROAD/DEER VALLEY ROAD TURN LANES,
JOINT TRENCH COMPOSITE DRAWING FOR SILVER SPRINGS UNIT #1**

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
1	P 070012	Progress Schedule (Critical Path Method)	LS	1		
2	071301	Temporary Fence	LF	1,340		
3	071325	Temporary Fence (Type ESA)	LF	4,895		
4	P 074019	Prepare Storm Water Pollution Prevention Plan	LS	1		
5	074016	Construction Site Management	LS	1		
6	074029	Temporary Silt Fence	LF	736		
7	074038	Temporary Drainage Inlet Protection	EA	21		
8	074056	Rain Event Action Plan	EA	20	\$500	\$10,000
9	074057	Storm Water Annual Report	EA	3	\$2,000	\$6,000
10	074058	Storm Water Sampling and Analysis Day	EA	10		
11	P 120090	Construction Area Signs	LS	1		
12	P 120090A	Construction Project Information Signs	LS	1		
13	120100	Traffic Control System	LS	1		
14	120120	Road Barricades	LF	414		
15	120120A	12' Road Barricade Gate	EA	1		
16	120149	Temporary Pavement Marking (Paint)	SQFT	116		
17	120159	Temporary Traffic Stripe (Paint)	LF	18,257		
18	120165	Surface Mounted Tubular Marker Channelizer	EA	29		
19	120120A	Temporary Type III Barricade	EA	7		
20	120300	Temporary Pavement Markers	EA	3,960		
21	128650	Portable Changeable Message Signs	SWD	1,262		
22	129000	Temporary Railing (Type K)	LF	4,980		
23	129110	Temporary Crash Cushion Module (Sand Filled)	EA	56		
24	129110A	Temporary Crash Cushion Module (Water Filled)	EA	36		
25	150000A	Relocate 4" Blow-Off & Valve Box-water (EID Water)	EA	1		
26	150000B	Remove Existing & Construct New 2" Sanitary Sewer Blowoff (EID Sewer)	EA	1		
27	150000C	Remove Existing & Construct New 2" Sanitary Sewer ARV (EID Sewer)	EA	1		
28	150000D	Adjust Valve Box to Grade (EID Water & Sewer)	EA	5		
29	150206	Abandon Culvert	CY	5		
30	150605	Remove Fence	LF	2,656		
31	150646	Remove Barricade	EA	1		
32	150685A	Modify Irrigation Facilities and Maintain Landscaping	LS	1		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
33	150710	Remove Traffic Stripes, Pavement Markings & Markers	LS	1		
34	150742	Remove Roadside Signs	EA	10		
35	152320	Reset Roadside Sign - One Post	EA	10		
36	152317	Reset Roadside Sign - Two Post	EA	2		
37	152370	Relocate Mailbox	EA	1		
38	152430A	Adjust Catch Basin Double Caltrans Type GO to Grade (Inlet)	EA	6		
39	152430B	Adjust Type 4 AC Curb Inlet w/ Pelican Gallery to Grade (Inlet)	EA	1		
40	152434	Adjust Riser to Grade (2", 4" & Telephone)	EA	5		
41	152440A	Adjust Storm Drain Manhole to Grade	EA	9		
42	152475	Adjust Sewer Manhole to Grade (EID Sewer)	EA	4		
43	153103	Cold Plane Asphalt Concrete Pavement	SQYD	1,611		
44	P 160101	Clearing and Grubbing	LS	1		
45	160120	Remove Trees	EA	61		
46	170101	Develop Water Supply	LS	1		
47	F 190101	Roadway Excavation	CY	26,000		
48	P 190116A	Prepare Fugitive Dust Control Plan	LS	1		
49	P 190116	Prepare Asbestos Dust Mitigation Plan	LS	1		
50	192037	Structure Excavation (Keystone Retaining Wall or equal)	CY	25		
51	193013	Structure Backfill (Keystone Retaining Wall or equal)	CY	29		
52	197020	Keystone Retaining Wall (or Equal)	SQFT	399		
53	F 198001A	Imported Borrow	CY	15,700		
54	200001A	Highway Planting (Sod)	LS	1		
55	203021	Fiber Rolls	LF	17,970		
56	203039	Rolled Erosion Control Product (Turf Reinforcement Mat)	SQYD	523		
57	203106	Erosion Control (Type D)	SQYD	39,895		
58	208304A	2" Water Service with one Service Box (EID Water)	EA	5		
59	208310A	3" PVC Irrigation Sleeve, Schedule 80	LF	646		
60	208310B	4" PVC Irrigation Sleeve, Schedule 80	LF	605		
61	208310C	8" PVC Irrigation Sleeve, Schedule 80	LF	605		
62	260201	Class 2 Aggregate Base	CY	12,444		
63	390132	Hot Mix Asphalt (Type A)	TON	9,242		
64	394002	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD	14		
65	394073	Place Hot Mix Asphalt Dike (Type A)	LF	3,540		
66	F 510502	Minor Concrete (Minor Structure-Retaining Wall Type 6B Footing)	CY	4		
67	513551	Retaining Wall Stem (Type 6B)	SQFT	161		
68	F 520103	Bar Reinforcing Steel (Retaining Wall)	LB	700		
69	566011	Roadside Sign - One Post	EA	46		
70	620060	12" Storm Drain HDPE	LF	1,029		
71	620080	15" Storm Drain HDPE	LF	70		
72	620100	18" Storm Drain HDPE	LF	1,354		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
73	620140	24" Storm Drain HDPE	LF	66		
74	665022	24" Corrugated Steel Pipe (0.109" thick)	LF	96		
75	665717	18" Corrugated Steel Pipe (0.109" thick)	LF	59		
76	667057A	35" x 24" Corrugated Steel Pipe Arch (0.079" thick)	LF	60		
77	680933A	1" x 18" HDPE Subdrain	LF	4,746		
78	690104	12" Corrugated Steel Pipe Downdrain	LF	45		
79	692003	12" Entrance Taper	EA	2		
80	692301A	12" Anchor Assembly	EA	8		
81	705011	18" Steel Flared End Section	EA	2		
82	705019A	35" x 24" Steel Flared End Section	EA	1		
83	705307	15" Alternative Flared End Section	EA	1		
84	705315	24" Alternative Flared End Section	EA	4		
85	707050	Inlet- Caltrans Type GO	EA	21		
86	707050A	Inlet - El Dorado County Type 4AC Curb Inlet w/ Pelican Gallery (115C)	EA	1		
87	707050B	Inlet - Median Inlet 18" x 18"	EA	11		
88	707050C	Inlet - El Dorado County Standard Grated Inlet (115A)	EA	3		
89	717001A	4" Force Main PVC-C900, CL 150 (EID Sewer)	LF	82		
90	717001B	8" Sanitary Sewer PVC - SDR 35 (EID Sewer)	LF	251		
91	717001C	10" Water Main (incl. fittings) PVC, C900 CL 150 (EID Water)	LF	535		
92	717001D	10" Water Main (incl. fittings) PVC, C900 CL 200 (EID Water)	LF	20		
93	717001E	12" Water Main (incl. fittings) PVC, C900, CL 150 (EID Water)	LF	4,420		
94	717001F	Install Sanitary Sewer Cleanout to Grade (EID Sewer)	EA	4		
95	717001G	2" Force Main Blowoff Valve (EID Sewer)	EA	1		
96	717001H	DELETED				
97	717001J	4" Blowoff Valve (EID Water)	EA	11		
98	717001N	12" X 10" Tee (EID Water)	EA	4		
99	717001Q	12" X 10" Cross (EID Water)	EA	2		
100	717001T	10" Gate Valve (EID Water)	EA	8		
101	717001U	12" Gate Valve (EID Water)	EA	13		
102	717001V	1" Air Release Valve (EID Water)	EA	3		
103	717001W	2" Air Release Valve (EID Water)	EA	1		
104	719305A	48" Storm Drain Manhole	EA	9		
105	719305B	60" Storm Drain Manhole	EA	1		
106	719999	Joint Trench	LF	1,116		
107	721010A	Rock Inlet/Outlet Protection (RSP Backing No. 1, Method B)	CY	24		
108	721011A	Rock Lined Ditch (RSP Backing No. 1, Method B)	CY	490		
109	721011B	Rock Lined Ditch (RSP Facing, Method B)	CY	415		

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (In Figures)	TOTAL PRICE (In Figures)
110	F	731502A	Minor Concrete (Curb Ramp, Gutter Depression, Driveway, Sidewalk, Bus Shelter Pad, Cross Gutter and V-Gutter)	CY	584	
111	F	731502B	Minor Concrete (Bus Bay)	CY	98	
112	F	731504	Minor Concrete (Curb and Gutter)	CY	589	
113	F	731501	Minor Concrete (Median Curb and Type A1-6 Curb)	CY	285	
114	F	731530A	Stamped and Colored Concrete Paving	CY	76	
115		800051	Fence (Type BW and Type WM, Metal Post and Wood Post)	LF	1,822	
116		820108	Delineator Class 2	EA	27	
117		820112	Marker (Culvert)	EA	21	
118		820141	Object Marker - Type K-1	EA	9	
119		833000A	Metal Fence (42")	LF	102	
120		833000B	Metal Fence (70")	LF	800	
121		833080	Concrete Barrier (Type K)	LF	80	
122		839521	Cable Railing	LF	31	
123		840504	4" Thermoplastic Traffic Stripe	LF	10,168	
124		840505	6" Thermoplastic Traffic Stripe	LF	15,570	
125		840506	8" Thermoplastic Traffic Stripe	LF	3,280	
126		840515	Thermoplastic Pavement Marking	SQFT	3,064	
127		840653	Paint Traffic Stripe	LF	215	
128		850111	Pavement Marker (Retroreflective, Type D)	EA	853	
129	P	860201	Signal and Lighting	LS	1	
130		860703	3" Conduit and Signal Interconnect Cable (SIC)	LF	800	
131		993002	Fire Hydrant (EID Water)	EA	5	
132		999100	Trench and Excavation Safety	LS	1	
133		999101	Trench and Excavation Safety (EID Bid Items 25 through 28, 42, 58, 89 through 103)	LS	1	
134	P	999990	Mobilization	LS	1	
TOTAL BID						

F Final Pay Quantity
P Item Eligible for Partial Payment
LS Lump Sum
SWD Sign working day

(NOTICE: Bidder's failure to execute the questionnaires and statements contained in this Proposal as required by applicable laws and regulations, or the determinations by El Dorado County based upon those questionnaires and statements, may prohibit award of the subject Contract to the Bidder.)