

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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June 6, 2014

11-SD-15,76-R46.2/R46.8, R12.1/R17.7

11-257154

Project ID 1100020489

STPL-6211(114)E

TPF-2012(001)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY NEAR BONSALL AND FALLBROOK ON ROUTE 15 FROM 0.3 MILE SOUTH TO 0.3 MILE NORTH OF ROUTE 76/15 SEPARATION AND ON ROUTE 76 FROM 0.4 MILE WEST OF SOUTH MISSION ROAD TO 0.5 MILE EAST OF ROUTE 76/15 SEPARATION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, June 19, 2014.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid book*, and the Federal Minimum Wages with Modification Number 6 dated 05/30/2014.

Project plan sheets 1, 9, 17, 32, 38, 39, 40, 41, 47, 51, 136, 137, 151, 152, 155, 182, 190, 191, 197, 205, 215, 216, 249, 250, 251, 258, 273, 274, 383, 384, 385, 386, 454, 456, 492, 493, 494, 496, 497, 498, 540, 818, 821, 837, 871, 873, 874, 875, 876, 903, 911, 912, 915, 916, 943, 945, 946, 947, 948 and 976 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheet 904 is deleted.

In the Special Provisions, Section "Add to section 5-1.36D:", the first paragraph including the table "Utility Relocation and Date of the Relocation" is deleted.

In the Special Provisions, Section "Add to section 5-1.36D:", the table after the fourth paragraph of "Contractor Arranged Time for Utility Relocation" is revised as follows:

Type of Utility	Utility Work Description	Utility Owner & Address	Location of Utility	Utility N Days	Utility W Days
Lower existing underground cable	Relocation	AT&T 7337 Trade Street, #5686 San Diego, CA 92121 (858) 886-1901	Old Hwy 395 "FL-A" Line Sta 2256+30 and 2263+40	30	45
Relocate overhead telephone lines	Relocation	AT&T 7337 Trade Street, #5686 San Diego, CA 92121 (858) 886-1901	On SR 76 "A" Line from Sta 96+30 to 98+50, 275+50, and 177+60 to 195+00	30	45
Relocate overhead telecommunication lines	Relocation	Cox Communications 5159 Federal Blvd San Diego, CA 92105	On SR 76 "A" Line from Sta 96+30 to 98+50	30	45
Lower underground fiber optics	Relocation	LEVEL 3 1025 El Dorado Blvd Broomfield, CO 20021 (858) 688-7007	Old Hwy 395 "FL-A" Line Sta 2255+50 - 2266+00	30	30
Relocate electrical overhead lines and poles	Relocation	SDG&E 8315 Century Park Court Suite 210 San Diego, CA 92123 858-636-3980	On SR 76 "A" Line from Sta 96+30 to 98+50, 275+50, 292+50, 136+50 to 153+00 and 175+50 to 195+50	60	30
Relocate electrical underground line	Relocation	SDG&E 8315 Century Park Court Suite 210 San Diego, CA 92123 858-636-3980	On SR 76 "A" Line from Sta 195+00 to 196 + 50	60	30

Lower in place existing 4 inch gas line	Relocation	SDG&E 8315 Century Park Court Suite 210 San Diego, CA 92123 858-636-3980	On SR 76 "A" Line at Sta 106+30	60	30
Install temporary 3 inch gas line	Install	SDG&E 8315 Century Park Court Suite 210 San Diego, CA 92123 858-636-3980	On SR 76 "A" Line at Sta 124+00 to 127+50	60	30
Lower underground electrical	Relocation	SDG&E 8315 Century Park Court Suite 210 San Diego, CA 92123 858-636-3980	On Old Hwy 395 "FL-A" at Sta 2263+10 to 2263+70  Existing RTA	60	30
Lower underground TV	Relocation	Time Warner Cable 10450 Pacific Center Ct. San Diego, CA 92121 (858) 635-8402	Old Hwy 395 "FL-A" Line Sta 2256+30 and 2263+40	90	30

In the Special Provisions, Section 86-2.063, "HUB CABINET," is added as attached.

In the Special Provisions, Section 86-2.08F, "CATEGORY 5E CABLE," is deleted.

In the Special Provisions, Section 86-2.08F, "CATEGORY 6 CABLE," is added as attached.

In the Special Provisions, Section 86-5.01F, "Closed Circuit Television (CCTV) System," "86-5.01F(1), "General," the first paragraph is replaced as follows:

"Closed circuit television (CCTV) system consists of conduit, pull boxes, conductors, cable, telephone demarcation cabinet, Category 6 cable, CCTV camera assembly, software, CCTV pole, CCTV cabinet, fiber distribution unit, media converter, media converter center, video encoder and serial to Ethernet conversion unit, as shown and as specified in the special provisions."

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In the Special Provisions, Section 86-5.01F, "Closed Circuit Television (CCTV) System," "86-5.01F(2)(c)(i), "General," the second paragraph is deleted.

In the Special Provisions, Section 86-5.01F, "Closed Circuit Television (CCTV) System," "86-5.01F(2)(c)(ii), "Technical Requirements," the first, second and third paragraphs are deleted.

In the Special Provisions, Section 86-5.01F, "Closed Circuit Television (CCTV) System," "86-5.01F(2)(c)(ii), "Technical Requirements," the fourth item in the fourth paragraph is replaced as follows:

"4. Category 6 Cable."

In the *Bid* book, in the "Bid Item List," Items 30, 87, 92, 98, 99, 104, 105, 112, 113, 117, 118, 120, 133, 134, 135, 137, 139, 140, 143, 144, 145, 146, 147, 149, 154, 246, 247, 250, 256, 289, 315, and 317 are replaced as attached.

To *Bid* book holders:

In the *Bid* book, pages 4, 7, 8, 9, 10, 15, 17 and 18 of the "Bid Item List" are replaced as attached. The attached Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

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

Submit bids in the *Bid* book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/11/11-257154](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-257154)**

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



LAURIE BERMAN  
District Director

Attachments

**Add to section 86-2.06:**

**86-2.063 HUB CABINET**

**86-2.063A General**

The hub cabinet consists of a prefabricated aboveground milled steel or aluminum structure with a metal in-ground concrete-walled basement, cathodic protection, material, features and equipment as shown and as described in these special provisions.

The structure must be prefabricated by a company normally engaged in the manufacture of controlled environmental structures.

Do not install additional hub cabinets over those shown without the Engineer's written approval.

**86-2.063A(1) Summary**

The hub cabinet must be rated not less than NEMA 3R.

The hub cabinet must meet the following structural design loading requirements: Roof, 50 psf; Floor, 250 psf; Wind, 80 mph; and Seismic, Zone 4.

**86-2.063A(2) Definitions**

Not Used

**86-2.063A(3) Submittals**

Within 45 days of contract submittal, submit the shop drawing submittal, uninterruptible power supply (UPS) system submittal, and cathodic protection submittal.

Submit shop drawings for the aboveground and basement structural portions of the hub cabinet.

Submit uninterruptible power supply system manufacturer's product sheets, manuals (installation, user and maintenance), factory tests and test results, and warranty information.

Submit catalog cut sheets, bulletins, brochures or data sheets for material and equipment installed in or attached to the hub cabinet structure and basement.

Catalog cut sheets, bulletins, brochures or data sheets are not required to be submitted for miscellaneous items of hardware needed to accomplish the work but not specifically described in these special provisions or shown.

Submit a list of the cathodic equipment, materials, and installation methods. The submittal must include:

1. Hub cabinet manufacturer's approval of the proposed cathodic protection system
2. Engineering drawing showing the proposed cathodic protection layout
3. Cathodic protection materials (description and quantity)
4. Description of the cathodic protection materials (including anode composition and weight)
5. Cathodic protection installation methods (including weld type and quantity to connect anode leads to equipment)
6. Cathodic protection system manufacturer's testing methods, list of recommended testing equipment and acceptable range of results for individual components
7. Cathodic protection system manufacturer's certification that the components provided are as described in function, composition and performance

**86-2.063B Materials**

**86-2.063B(1) Summary**

The prefabricated aboveground structure must be made with nominal 12-gauge thick milled-steel sheeting or dual skinned 18 gauge aluminum sheeting walls, minimum. The lower section walls must be made with nominal 3-gauge thick hot-dipped galvanized steel sheeting.

The cabinet must be equipped to maintain an interior ambient temperature range of 60 °F to 75 °F.

Interior walls must be insulated with an R-7 foil type insulation.

An emergency power input connector must be located on the outside of the structure adjacent to the entranceway. The emergency power input connector must be enclosed in a weatherproof housing and consist of a 100 A, 3-pole, 4-wire connector rated at 120/240 V(ac).

The hub cabinet interior and aboveground exterior must be prepared, primed with an epoxy primer, and finish painted with an acrylic urethane enamel or equal. The finished color must be tan.

Below ground exterior surfaces must be coated with a protective seal suitable for underground installations and meet the following:

1. All coatings must be the best quality grade of specified types as regularly manufactured by a recognized coating manufacturer.
2. Coatings must be applied only when surfaces are dry and properly prepared and the surrounding conditions are satisfactory for coating. Surfaces must be cleaned of all dust, dirt, grease, wax, loose coatings, and other substances that would impair bonding of the coating.

#### **86-2.063B(2) Doors and Door Hardware**

Door must be right-hand or left-hand swing. The door must have provisions for opening the door from the interior of the cabinet without the use of tools.

Door must be equipped with weatherstripping, butt hinges, lockset, door stop, and threshold.

Weatherstripping must be installed on both sides and the top of the door.

Lockset cylinder must be keyed to match a sample key supplied by the Engineer.

Door and frame must be installed rigidly, securely, plumb, and true. The door must operate free without rubbing or binding. Clearance between the frame and door must be not more than 1/8-inch.

Hardware items must be accurately fitted, securely applied, and adjusted under the manufacturers' instructions.

Hardware items must be removed from surfaces to be painted during painting.

#### **86-2.063B(3) Electrical**

The hub cabinet must be wired for a 100 A, 60-cycle, 3-wire, 120/240 V(ac) single phase service.

Convenience outlets for 120 V(ac) components are shown on the plans.

The hub cabinet must include the following:

1. Single phase, 3-wire circuit main breaker panel board equipped with provisions for 6 circuit breakers.
2. Interior lighting consisting of ceiling-mounted fixture (containing two 4-ft, 40W Max, 3500K Min, 2600 lm Min, CRI 78 Min, T8 Fluorescent) at the approximate locations shown on the plans and the following:
  - 2.1. Contain a motion detector sensor. In addition to a test switch, the motion detector circuit must have an override switch for manual operation.
  - 2.2. Fully automatic operation, motion is detected and must continue to operate for 10 minutes minimum after no motion is detected.
3. Emergency lighting must consist of a 2-bulb, battery operated light and conform to the following:
  - 3.1. Completely self-contained with an external test switch and wired to operate when commercial power fails.
  - 3.2. Able to operate continuously for 2 hours minimum under full charge.
  - 3.3. Contain a maintenance-free battery with a 10-year rated life.
  - 3.4. Lamps must be glare-free sealed beam PAR 36.
  - 3.5. Charger must be solid state and feature an automatic low voltage disconnect and operate on 120 V.
4. A 250 W sump pump with two float switches and drain placed as shown.
5. Water level indicator and alarm system.
6. High Humidity Alarm.
7. Intrusion Alarm - Local audio must be a siren rated at 100 dB, 3200 Hz, piezo-type with an adjustable delay. The alarm system and components must be tamper resistant and installed in the hub cabinet. The intrusion alarm sensor must automatically reset to the active state once the entranceway cover is closed.
8. High and Low Temperature Alarm
9. Commercial Power Alarm (failure).
10. Smoke Alarm - The smoke detector must be a photoelectric smoke detector with built-in siren and battery back-up.
11. Step ladder rated Type 1 and fabricated from aluminum or steel. The ladder must be secured to the cabinet structure.
12. Commercial quality EIA (19-inch) racks of the quantity, dimension and placement as shown.
13. Cable ladders of the dimension and configuration as shown.
14. Air conditioners, not less than 2 total, thermostatically controlled, providing a minimum capacity of 12 000 BTU each.

The alarm features provided in the hub cabinet must provide local audio and visual indicators and be connected to an alarm terminal port for remote communication to the Transportation Management Center. The following is a list of alarm contact closures (rated at 110 V(ac), 2 A minimum) and conditions for the alarms, that must be provided showing the status of the hub cabinet. The contact closures for these alarms must be connected to a terminal block in the cabinet:

1. Water level indicator and alarm system - activated by the float switch on the sump pump.
2. High Humidity Alarm - activated over an adjustable humidity range, set between 20 to 85 percent.
3. Intrusion Alarm - activated whenever the entranceway cover is opened.
4. High and Low Temperature Alarm - activated over an adjustable high temperature range between 78 °F to 112°F and an adjustable low temperature range between 32°F to 75°F.
5. Commercial Power Alarm (failure) - activated whenever commercial power is interrupted for more than 6 cycles.
6. Smoke Alarm - activated whenever smoke or fire is detected in the hub cabinet.

The Uninterruptible Power Supply (UPS) System must be APC (by Schneider Electric) Smart-UPS RT 8000VA, Emerson Network Power Liebert GXT3 8kVA, Xtreme Power Conversion Corporation XPRT-10kVA, or equal or better, and include the following features:

Feature	Parameter/Remarks
Topology	Online double conversion
Full Load Output Power Capacity	Not less than 6400W
Runtime at Full Load	Configured to provide not less than 7 minutes
Additional or Extended Runtime	Completed installation must accommodate installation of additional battery packs for additional or extended runtime
Battery	Maintenance free, sealed, non-gassing, user replaceable and hot-swappable
Recharge	To 90% of rated capacity within 3 hours
Status Indicators	Includes: AC Line Input, Battery Status, Load Status,
Output Receptacles	Provide a minimum of 4 NEMA L6-20R
Remote Management/Monitoring	Via software and add-on module
Standards Compliance	UL 1778, FCC Part 15 Class A
Warranty	Full repair or replacement for not less than 2 years after installation for batteries and electronics.

**86-2.063B(4) Cathodic Protection**

Install cathodic protection system components, including electrical connections and anodes, conforming to these special provisions and as shown. Cathodic protection equipment must be suitable for the equipment to be protected and manufactured by a manufacturer who is now regularly engaged in the manufacture of cathodic protection equipment.

The locations shown for cathodic protection equipment are approximate. You must determine exact locations and obtain the Engineer's approval.

Install 3-inch wide red caution tape no more than 12 inches below grade over buried wire and conduits.

**86-2.063C Construction**

Earthwork must conform to section 19.

**86-2.063D Warranty**

Hub cabinet workmanship must be covered by warranty for not less than one year.

**86-2.063E Payment**

Not Used

**Add to section 86-2.08:**

**86-2.08F CATEGORY 6 CABLE**

**86-2.08F(1) General**

**86-2.08F(1)(a) Summary**

Category 6 cable must be the unshielded, outdoor-rated type, meeting the requirements of ANSI/TIA/EIA 568-B. Factory-finished Category 6 patch cable may be shielded.

**86-2.08F(1)(b) Definitions**

Not Used

**86-2.08F(1)(c) Submittals**

Submit the following as informational submittals before installation:

1. Certificate of compliance and manufacturer's product and installation information for Category 6 cable.
2. Certificate of compliance and manufacturer's product information for factory-finished Category 6 patch cables.
3. Manufacturer's product and installation information for all Category 6 patch cable components used for field-connectorized patch cables.
4. Certified Installation qualifications, materials and features tested, test procedures, description of test equipment and description of proposed end devices used in the testing. If end device units are required in the completed work, you may make arrangements with the Engineer to use these in the Certified Installation testing. Include a representative sample of the documentation of permanent link testing that will be performed.

**86-2.08F(1)(d) Quality Control and Assurance**

Certified Installations are required for installed lengths of 295 feet or less of Category 6 cable. Submit completed certified installation test results for the Department's use in acceptance testing.

Certified Installation test results must include:

1. Description (location, conduit identification, cable identification, and physical length of cable)
2. Check pin-to-pin termination of each conductor for:
  - 2.1 Continuity
  - 2.2 Shorts
  - 2.3 Correct pairing (no reversals, splits, transposing, or other incorrect wiring)
3. Frequency (MHz)
4. Insertion Loss (or Attenuation)
5. NEXT (Near-End Crosstalk) pair-to-pair, worst
6. PSNEXT (Power Sum Near-End Crosstalk)
7. ELFEXT (Equal Level Far-End Crosstalk) pair-to-pair, worst
8. PSELFEXT (Power Sum Equal Level Far-End Crosstalk)
9. ACR (Attenuation-to-Crosstalk Ratio) pair-to-pair, worst
10. PSACR (Power Sum Attenuation-to-Crosstalk Ratio)
11. Return Loss

Patch cables must not exceed 33 feet in finished length. Check each patch cable for pin-to-pin termination of each conductor.

**86-2.08F(2) Materials**

Category 6 cable must meet the following:

1. The cable and field-connectorized patch cables must be from the same manufacturer. Factory-finished patch cables may be from a different manufacturer than field-connectorized patch cables and cable installed between cabinets, hubs, vaults, and similar.
2. Except at controller and telephone demarcation cabinets, if patch cables are field-connectorized, use connector models recommended by the cable manufacturer to maintain cable performance.
3. The cable jacket must be marked at intervals of not more than 3 feet with the cable identification: manufacturer's name, product identification, number of conductors and conductor size, and voltage and temperature ratings. Cable length markings may be sequentially alternated with the cable identification markings at not more than every other interval.
4. The finished outside diameter of the cable must not exceed 1/2-inch.

**86-2.08F(3) Construction**

At all locations where twisted pairs are separated out from the cable for field termination, maintain the cable manufacturer's twist pattern and ratio throughout the exposed portion of the twisted pair up to the connector or termination.

The ends of category 6 cable terminating at controller and telephone demarcation cabinets must be terminated with Type 110 punch down blocks.

The cable run between components must be continuous without splices. A minimum of 3 feet of slack must be provided at each pull box, junction box or vault, and a minimum of 9 feet at each cabinet.

**86-2.08F(4) Payment**

Not Used

**BID ITEM LIST  
11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130505	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	12		
22	130530	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	1,260,000		
23	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	260		
24	130640	TEMPORARY FIBER ROLL	LF	744,000		
25	130690	TEMPORARY STRAW BALE BARRIER	EA	620		
26	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	55		
27	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
28	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
29	141000	TEMPORARY FENCE (TYPE ESA)	LF	10,100		
30	027350	TEMPORARY ARROYO TOAD FENCE	LF	12,300		
31	141120	TREATED WOOD WASTE	LB	26,500		
32	027351	PRE-MANUFACTURED BAT HOUSE	EA	2		
33	150203	ABANDON CULVERT (EA)	EA	10		
34	027352	ABANDON SEWER MANHOLE	EA	32		
35	027353	ABANDON WATERLINE	EA	2		
36	150230	DESTROY WELL	EA	46		
37	150241	ABANDON SEWER	LS	LUMP SUM	LUMP SUM	
38	027354	REMOVE STEEL CASING	EA	150		
39	150605	REMOVE FENCE	LF	9,360		
40	150620	REMOVE GATE	EA	8		

**BID ITEM LIST**  
**11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	190160	ROCK EXCAVATION (CONTROLLED BLASTING)	CY	47,100		
82	027365	SETTLEMENT PLATFORM	EA	9		
83 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	1,588		
84 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	1,200		
85	193006	STRUCTURE BACKFILL (SLURRY CEMENT)	CY	970		
86	194001	DITCH EXCAVATION	CY	1,830		
87	198010	IMPORTED BORROW (CY)	CY	92,600		
88	198209	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	SQYD	12,500		
89	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
90	200122	WEED GERMINATION	SQYD	1,080,000		
91	027366	RELOCATE WATER METER (RAINBOW)	EA	1		
92	202038	PACKET FERTILIZER	EA	335,000		
93	204003	PLANT (GROUP C)	EA	30		
94	204008	PLANT (GROUP H)	EA	390		
95	204011	PLANT (GROUP K)	EA	40		
96	204013	PLANT (GROUP M)	EA	227,000		
97	204035	PLANT (GROUP A)	EA	297,000		
98	204036	PLANT (GROUP B)	EA	17,800		
99	204038	PLANT (GROUP U)	EA	640		
100	204045	SOD	SQYD	26,700		

**BID ITEM LIST**  
**11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	204096	MAINTAIN EXISTING PLANTED AREAS	LS	LUMP SUM	LUMP SUM	
102	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
103	205034	DECOMPOSED GRANITE	SQFT	67,300		
104	205035	WOOD MULCH	CY	3,070		
105	027367	ROCK MULCH (TYPE 1)	SQYD	1,700		
106	027368	ROCK MULCH (TYPE 2)	SQYD	560		
107	027369	ROCK MULCH (TYPE 3)	SQYD	330		
108	027370	GRAVEL STABILIZER	CY	11		
109	206400	CHECK AND TEST EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
110	206402	OPERATE EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
111	206560	CONTROL AND NEUTRAL CONDUCTORS	LS	LUMP SUM	LUMP SUM	
112	027371	1" REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	EA	39		
113	027372	1 1/2" REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	EA	530		
114	027373	1 1/2" ELECTRIC REMOTE CONTROL VALVE (MASTER)	EA	1		
115	027374	2" ELECTRIC REMOTE CONTROL VALVE (MASTER)	EA	12		
116	027375	3" ELECTRIC REMOTE CONTROL VALVE (MASTER)	EA	1		
117	027376	12 STATION EXPANSION MODULE	EA	2		
118	206758	24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	EA	2		
119	206759	30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	EA	4		
120	027377	48 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	EA	5		

**BID ITEM LIST  
11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	206921	SOLAR POWERED IRRIGATION CONTROLLER	EA	8		
122 (F)	208008	3" GALVANIZED STEEL PIPE (SUPPLY LINE)	LF	30		
123	027378	1" GALVANIZED STEEL PIPE (CONDUIT)	LF	30		
124 (F)	208028	3" SUPPLY LINE (BRIDGE)	LF	1,494		
125	208301	IRRIGATION CONTROLLER ENCLOSURE CABINET	EA	10		
126	027379	IRRIGATION CONTROLLER ENCLOSURE (SOLAR)	EA	8		
127	027380	2" TEMPORARY WATER METER ASSEMBLY	EA	1		
128	027381	WATER METER (RAINBOW)	EA	11		
129	208416	CERTIFY EXISTING BACKFLOW PREVENTERS	LS	LUMP SUM	LUMP SUM	
130	208425	1 1/2" BACKFLOW PREVENTER ASSEMBLY	EA	1		
131	208426	2" BACKFLOW PREVENTER ASSEMBLY	EA	10		
132	208440	BACKFLOW PREVENTER ENCLOSURE	EA	11		
133	208445	TREE WELL SPRINKLER ASSEMBLY	EA	780		
134	208446	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	EA	8,800		
135	208447	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN)	EA	700		
136	208449	POP-UP SPRINKLER ASSEMBLY	EA	180		
137	208565	REPLACE VALVE BOX COVER	EA	33		
138	208574	1 1/2" GATE VALVE	EA	12		
139	208575	2" GATE VALVE	EA	140		
140	208588	3" GATE VALVE	EA	39		

**BID ITEM LIST  
11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	208589	4" GATE VALVE	EA	1		
142	208590	6" GATE VALVE	EA	10		
143 (F)	208595	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	175,316		
144 (F)	208596	1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	82,020		
145 (F)	208597	1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	24,995		
146 (F)	208598	2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	27,298		
147 (F)	208606	2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	LF	48,510		
148 (F)	208607	3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	LF	13,959		
149 (F)	208608	4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	LF	47,202		
150 (F)	208609	6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	LF	7,810		
151	208640	PRESSURE REGULATING VALVE	EA	1		
152	027382	PRESSURE REGULATING VALVE (RAINBOW)	EA	11		
153	208649	QUICK COUPLING VALVE	EA	39		
154	027383	2" COMBINATION AIR RELIEF VALVE	EA	15		
155	208683	BALL VALVE	EA	30		
156	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	1,390		
157	208739	10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	8		
158	208740	12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	280		
159	027384	6" PLASTIC PIPE (SCHEDULE 40)(CONDUIT)	LF	2,450		
160	027385	12" PLASTIC PIPE (SCHEDULE 40)	LF	660		

**BID ITEM LIST**

**11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241	703233	GRATED LINE DRAIN	LF	390		
242	705311	18" ALTERNATIVE FLARED END SECTION	EA	2		
243	705315	24" ALTERNATIVE FLARED END SECTION	EA	1		
244	707467	36" REINFORCED CONCRETE PIPE RISER	LF	38		
245	720118	ROCK SLOPE PROTECTION (2T, METHOD A)	CY	1,360		
246	721013	ROCK SLOPE PROTECTION (1/4 T, METHOD B) (CY)	CY	32,100		
247	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B) (CY)	CY	7,380		
248	721022	ROCK SLOPE PROTECTION (1T, METHOD B)	CY	300		
249	721026	ROCK SLOPE PROTECTION (NO. 1, METHOD B) (CY)	CY	250		
250	721028	ROCK SLOPE PROTECTION (NO. 2, METHOD B) (CY)	CY	12,500		
251	721030	ROCK SLOPE PROTECTION (1/2 T, METHOD B) (CY)	CY	530		
252	721400	CONCRETE (SLOPE PROTECTION)	CY	460		
253	721420	CONCRETE (DITCH LINING)	CY	540		
254	721810	SLOPE PAVING (CONCRETE)	CY	9		
255	722020	GABION	CY	730		
256	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	13,600		
257	729012	ROCK SLOPE PROTECTION FABRIC (CLASS 10)	SQYD	890		
258	730040	MINOR CONCRETE (GUTTER) (LF)	LF	435		
259	730070	DETECTABLE WARNING SURFACE	SQFT	570		
260	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	1,270		

**BID ITEM LIST  
11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
281	027412	BLOW OFF ASSEMBLY	EA	4		
282	027413	8" DUCTILE IRON WATER PIPE	LF	1,980		
283	027414	10" STEEL CEMENT-MORTAR LINED AND COATED WATER PIPE (0.375" THICK)	LF	150		
284	027415	16" STEEL CEMENT-MORTAR LINED AND COATED WATER PIPE (0.375" THICK)	LF	180		
285	027416	24" STEEL CEMENT-MORTAR LINED AND COATED WATER PIPE (0.375" THICK)	LF	60		
286	027417	INSULATING FLANGE KIT	EA	4		
287	027418	CONNECT TO WATER LINE	EA	4		
288	027419	36" STEEL CASING (WATER)	LF	160		
289	027420	8" PLUG VALVE	EA	3		
290	027421	10" PLUG VALVE	EA	1		
291	027422	24" PLUG VALVE	EA	2		
292	027423	TRENCHLESS CASING INSTALLATION	LF	68		
293	027424	CABLE BARRIER FENCE	LF	20,300		
294	800103	TEMPORARY FENCE (TYPE CL-6)	LF	230		
295	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	810		
296	027425	WILDLIFE FENCE (TYPE 1)	LF	40,200		
297	027426	WILDLIFE FENCE (TYPE 2)	LF	4,310		
298	027427	ARROYO TOAD FENCE	LF	20,100		
299	027428	RAIL FENCE	LF	1,820		
300	027429	CONTINUOUS POST BARRICADE	LF	20		

**BID ITEM LIST**

**11-257154**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
301	802901	4' CHAIN LINK GATE (TYPE CL-8)	EA	18		
302	802920	6' CHAIN LINK GATE (TYPE CL-8)	EA	37		
303	027430	10' CHAIN LINK GATE (TYPE CL-8)	EA	4		
304	027431	TUBULAR STEEL GATE	EA	10		
305	820107	DELINEATOR (CLASS 1)	EA	150		
306	820110	MILEPOST MARKER	EA	36		
307	820131	OBJECT MARKER (TYPE K)	EA	2		
308 (F)	833032	CHAIN LINK RAILING (TYPE 7)	LF	1,409		
309	833073	WILDLIFE PASSAGE WAY (TYPE M)	EA	2		
310 (F)	833088	TUBULAR HANDRAILING	LF	1,175		
311 (F)	839521	CABLE RAILING	LF	833		
312	839543	TRANSITION RAILING (TYPE WB-31)	EA	4		
313	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	4		
314	839604	CRASH CUSHION (REACT 9CBB)	EA	8		
315	027432	CONCRETE BARRIER (TYPE 60 MODIFIED)	LF	16,300		
316	839699	CONCRETE BARRIER (TYPE 60P)	LF	72		
317	839701	CONCRETE BARRIER (TYPE 60)	LF	4,120		
318 (F)	839702	CONCRETE BARRIER (TYPE 60A)	LF	169		
319 (F)	839725	CONCRETE BARRIER (TYPE 736)	LF	1,208		
320	840655	PAINT TRAFFIC STRIPE (1-COAT)	LF	13,800		