

ADDENDUM NO. 1
TO THE
CONTRACT DOCUMENTS FOR THE
978-1 & 850-2 RESERVOIR INTERIOR/EXTERIOR COATING & UPGRADES
(CIP P2534 & P2544)

August 5, 2016

TO: ALL PLANHOLDERS

FROM: OTAY WATER DISTRICT, ENGINEERING DEPARTMENT

The following modifications, additions and/or deletions are made a part of the CONTRACT DOCUMENTS for the construction of the 978-1 & 850-2 RESERVOIR INTERIOR/EXTERIOR COATING & UPGRADES (CIP P2534 & P2544) project issued fully and completely as if same were set forth therein:

CONTRACT DOCUMENT CHANGES

1. **TABLE OF CONTENTS, Page IV**

- a. Delete **Page IV** of the **TABLE OF CONTENTS** in its entirety and replace with the attached **Page IV** of the **TABLE OF CONTENTS** marked "August 2016 - Addendum 1".

2. **PART 4, SPECIFICATIONS, DIVISION 01, GENERAL REQUIREMENTS, SECTION 01010, SUMMARY OF WORK**

- a. This section is MISSING its entirety from the original specifications. ADD the attached **SECTION 01010, SUMMARY OF WORK** marked "August 2016 - Addendum 1".

Each Bidder shall acknowledge receipt and acceptance of this addendum by inserting the addendum number in the space provided in Part 2, CONTRACT FORMS, SECTION 00400, BID PROPOSAL (FORM A), ADDENDA, Page 00400-2.

Sincerely,

OTAY WATER DISTRICT

By: 

Kevin Cameron, P.E.
Project Manager/Design Engineer

Date: August 5, 2016

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PART 1 - GENERAL

1.1 PROJECT LOCATION

The **978-1 Reservoir** is a 0.5 MG welded steel tank located at 2542 Pence Drive, El Cajon, CA 92019, and the **850-2 Reservoir** is a 3.1 MG welded steel tank located at 2105 Ledge Avenue, Spring Valley, CA 91977.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

The work includes furnishing all labor, equipment, material, and transportation services to prepare and coat the interior and exterior surfaces, and also provide structural upgrades to the 978-1 & 850-2 Reservoirs to the satisfaction of the Otay Water District, which may include, but is not limited to:

CIP P2534 – 978-1 0.5 MG RESERVOIR

A. BID ITEM NO. 1.1 – MOBILIZATION, DEMOBILIZATION, AND BONDS:

The Contract Price shall include, but not be limited to, the following principal items: mobilizing labor force; securing construction water supply; moving equipment and construction facilities onto site; traffic control during construction, if necessary; proper cleaning and clearance of the site to return it to its original condition; and removal of all contractor equipment, supplies, labor force, payment for bonds, and facilities. Up to 25% of this Bid Item may be paid upon start of construction. Up to 50% of this Bid Item may be paid when 50% of the construction is completed, as determined by the District. The remaining 25% shall be paid upon completion of the project.

B. BID ITEM NO. 1.2 – REMOVE EXISTING INTERIOR COATING & SURFACE PREPARATION:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Removal existing interior coating and properly dispose of all materials. The Contractor will be responsible for proper disposal of the coatings and blast media. Documentation of the disposal shall be provided the District.
- Ventilate and dehumidify during surface preparation procedures.

C. BID ITEM NO. 1.3 – COAT INTERIOR SURFACES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Prepare and coat all interior reservoir surfaces.
- Ventilate and dehumidify the interior of the reservoir during coating procedures and curing period in order to apply a new coating per specifications and manufacturer's recommendations.

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- Apply NSF-61 certified caulking to all circumferential shell/roof interfaces, roof/rafter interfaces, roof plate lap seams, and other crevices that preclude proper coating application.
- Washdown and disinfection.

D. BID ITEM NO. 1.4 – FULL CONTAINMENT:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Furnish all equipment to fully contain all blast media and debris during both interior and exterior surface preparation and coating procedures. Submit a written program for a complete abrasive blasting containment system which will contain all the abrasive blast media, monitor the containment, and provide corrective measures when containment may be breached.

E. BID ITEM NO. 1.5 – REMOVE EXISTING EXTERIOR COATING & SURFACE PREPARATION:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Removal existing exterior coating and properly dispose of all materials. The exterior coating contains heavy metals and should be considered hazardous materials.
- Prepare all exterior reservoir surfaces including overflow, inlet, and outlet piping. The altitude valve's copper appurtenances are NOT to be blasted or coated.

F. BID ITEM NO. 1.6 – COAT EXTERIOR SURFACES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Prepare and coat all exterior reservoir surfaces including overflow, inlet, and outlet piping.
- Prepare & coat inlet, outlet, overflow piping. The altitude valve's copper appurtenances are NOT to be coated.

G. BID ITEM NO. 1.7 – ROOF VENT, D-RINGS, AND LANYARD CABLES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and dispose of the existing center roof vent and replace with new roof vent per these Specifications and Construction Drawings.

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- Provide four (4) D-rings, two (2) lanyard cables, and four (4) carabiners per these Specifications and Construction Drawings. All equipment shall be rated at 5,000 lbs.

H. BID ITEM NO. 1.8 – NEW ROOF RAILING AND ROOF ACCESS HATCH:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and dispose of the existing railing around the roof hatch, and install new railing per these Specifications and Construction Drawings. Once the old railing is removed, the roof to railing connections are to be grinded down to flush with the roof top. Repair any holes or corrosion at the railing/roof interface. Submittal required.
- Install five (5) D-Rings on railings, and near roof hatch per these Specifications and Construction Drawings (Sheet C-2).
- Remove and dispose of the existing 24-inch square roof hatch, and install new 32-inch roof hatch as specified on the Construction Drawings and Specifications. The hatch shall meet all AWWA standards. Submittal required.
- Remove and dispose of the antiquated telemetry piping flush to the roof (interior and exterior), and remove piping and braces. Provide a ¼-inch steel plate large enough to cover opening with 4-inch overlap. Fillet weld all around. Grind down any old weld connections to tank. Remove and dispose of platform next to telemetry cover. See Construction Drawing (Sheet C-2).

I. BID ITEM NO. 1.9 – NEW EXTERIOR LADDER AND CAGE:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and dispose of the existing exterior ladder and cage. Grinded down to flush all old connection to the roof and shell.
- Install a new exterior ladder and cage per these Specifications and Construction Drawings. The ladder and cage shall meet all AWWA, Federal and State OSHA standards. Install a new anti-climb ladder door. Full submittal required.
- Provide and install a new galvanized DBI Sala Lad-Saf safety climb. Submittal required.

J. BID ITEM NO. 1.10 – NEW INTERIOR ROOF RAFTERS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and dispose the existing 12-inch C-channel interior roof rafters,

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rafter to shell supports, and hardware. Install new roof rafters, rafter to shell supports and hardware. Full submittal required for removal and replacement procedures, materials, and calculations. Submittal shall be stamped by a California Structural Engineer. Existing tank's shop drawings are unavailable.

K. BID ITEM NO. 1.11 – TANK PENETRATIONS/MISCELLANEOUS STRUCTURAL MODIFICATIONS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Install a new stainless steel (SS) DBI Sala Lad-Saf safety climb fall prevention device, including extension bar for dismount. Dielectric nylon insulated bushings on the connection bolts shall be installed separating the SS connections from the interior ladder. All connectors to be SS.
- Install razor wire on exterior ladder cage and overflow bracket, fasten with galvanized hog rings as shown on the Construction Drawings.
- Provide four (4) 1-inch corporation stop tank penetrations with locking metal boxes as shown and specified on Construction Drawing C-1.
- Provide new bolts, nuts, and washers for the interior ladder supports that secure the ladder to the shell.
- Install three (3) new D-rings on railings and one (1) near the roof access hatch as specified on the Construction Drawings.
- Remove and properly dispose of the existing liquid level indicator. Provide a new water level indicator as specified on the Construction Drawings.
- Remove and replace existing sealant at the exterior concrete/steel interface of the ring wall with flexible polyurethane caulking material sealant per Section 09990, 2.2.
- Provide and install new gasket to the existing manways. Glued or field cut gaskets will not be accepted.

L. BID ITEM NO. 1.12 – NEW CATHODIC HAND HOLES & REFERENCE CELL PORTS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and replace all existing anode and reference cell hand holes with new hand holes (fourteen [14] total) per the Construction Drawings and Specifications.

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M. BID ITEM NO. 1.13 – NEW 20’ SACRIFICIAL ANODES & NEW REFERENCE CELLS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove all existing 20’ anodes and reference cells, and properly dispose of them.
- Provide and properly install ten (10) new sacrificial anodes and two (2) new reference cells.
- Provide new wiring, conduits, and test box per the Construction Drawings.

CIP P2544 – 850-2 3.1 MG RESERVOIR

N. BID ITEM NO. 2.1 – MOBILIZATION, DEMOBILIZATION, AND BONDS:

The Contract Price shall include, but not be limited to, the following principal items: mobilizing labor force; securing construction water supply; moving equipment and construction facilities onto site; traffic control during construction, if necessary; proper cleaning and clearance of the site to return it to its original condition; and removal of all contractor equipment, supplies, labor force, payment for bonds, and facilities. Up to 25% of this Bid Item may be paid upon start of construction. Up to 50% of this Bid Item may be paid when 50% of the construction is completed, as determined by the District. The remaining 25% shall be paid upon completion of the project.

O. BID ITEM NO. 2.2 – REMOVE EXISTING INTERIOR COATING & SURFACE PREPARATION:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Removal existing interior coating and properly dispose of all materials. The existing coal tar coating should be considered hazardous. The Contractor will be responsible for proper disposal of the coatings and blast media. Documentation of the disposal shall be provided the District.
- Ventilate and dehumidify during surface preparation procedures.

P. BID ITEM NO. 2.3 – COAT INTERIOR SURFACES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Prepare and coat all interior reservoir surfaces.
- Ventilate and dehumidify the interior of the reservoir during coating procedures and curing period in order to apply a new coating per specifications and manufacturer’s recommendations.

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- Apply NSF-61 certified caulking to all circumferential shell/roof interfaces, roof/rafter interfaces, roof plate lap seams, and other crevices that preclude proper coating application.
- Washdown and disinfection.

Q. BID ITEM NO. 2.4 – FULL CONTAINMENT:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Furnish all equipment to fully contain all blast media and debris during both interior and exterior surface preparation and coating procedures. Submit a written program for a complete abrasive blasting containment system which will contain all the abrasive blast media, monitor the containment, and provide corrective procedures when containment may be breached.

R. BID ITEM NO. 2.5 – REMOVE EXISTING EXTERIOR COATING & SURFACE PREPARATION:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Removal existing exterior coating and properly dispose of all materials. The exterior coating contains heavy metals and should be considered hazardous materials.
- Prepare all exterior reservoir surfaces including overflow, inlet, and outlet piping.

S. BID ITEM NO. 2.6 – COAT EXTERIOR SURFACES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Prepare and coat all exterior reservoir surfaces including overflow, inlet, and outlet piping.
- Prepare & coat six (6) bollards near inlet and outlet piping. Color to be safety yellow, and applied per Specification Section 09911.

T. BID ITEM NO. 2.7 – ROOF VENT SCREEN AND LANYARD CABLES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove existing center roof vent screening and replace with new screening. Screen shall be nylon bug screen overlaid with stainless steel screen, secured with stainless steel bands and hardware.

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- Provide two (2) lanyard cables and four (4) carabiners per these Specifications and Construction Drawings. All equipment shall be rated at 5,000 lbs.

U. BID ITEM NO. 2.8 – NEW ROOF RAILING AND ROOF ACCESS HATCH:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and dispose of the existing railing around the roof hatch, and install new railing per these Specifications and Construction Drawings. Once the old railing is removed, the roof to railing connections are to be grinded down to flush with the roof top. Repair any holes or corrosion at the railing/roof interface. Submittal required.
- Install five (5) D-Rings on railings, and near roof hatch per these Specifications and Construction Drawings (Sheet C-2).
- Remove and dispose of the existing 24-inch square roof hatch, and install new 32-inch roof hatch as specified on the Construction Drawings and Specifications. The hatch shall meet all AWWA standards. Submittal required.
- Remove and dispose of the antiquated telemetry piping flush to the roof (interior and exterior), and remove piping and braces. Provide a ¼-inch steel plate large enough to cover opening with 4-inch overlap. Fillet weld all around. Grind down any old weld connections to tank.

V. BID ITEM NO. 2.9 – TANK PENETRATIONS / MISCELLANEOUS STRUCTURAL MODIFICATIONS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Provide a new galvanized DBI Sala Lad-Saf safety climb as specified on the Construction Drawings and Specifications. Submittal required.
- Remove and dispose of the existing interior ladder. Install a new OSHA compliant interior stainless steel (SS) ladder and SS DBI Sala Lad-Saf safety climb fall prevention device, including extension bar for dismount. Dielectric nylon insulated bushings on the connection bolts shall be installed separating the SS interior ladder from the supports. All connectors to be SS. Submittal required.
- Remove, dispose of, and install new razor wire on exterior ladder, fasten with galvanized hog rings as shown on the Construction Drawings.
- Install three (3) new D-rings on railings and one (1) near the roof access hatch as specified on the Construction Drawings.
- Provide four (4) 1-inch corporation stop tank penetrations with locking

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metal boxes as shown and specified on Construction Drawing C-3.

- Remove and properly dispose of the existing water level indicator. Provide a new water level indicator as specified on the Construction Drawings.
- Remove and replace existing sealant at the exterior concrete/steel interface of the ring wall with flexible polyurethane caulking material sealant per Section 09990, 2.2.
- Provide and install new gasket to the existing manways. Glued or field cut gaskets will not be accepted.

W. BID ITEM NO. 2.10 – NEW CATHODIC HAND HOLES & REFERENCE CELL PORTS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and replace all existing anode and reference cell hand holes with new hand holes per the Construction Drawings and Specifications.

X. BID ITEM NO. 2.11 – NEW 20' SACRIFICIAL ANODES & NEW REFERENCE CELLS:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove and replace all existing anodes and reference cells, and properly dispose of them.
- Provide and properly install twelve (12) new 20-foot anodes and two (2) new reference cells at locations described in Appendix A.
- Provide new wiring, conduits, and test box per the Construction Drawings.

Y. BID ITEM NO. 2.12 – NEW 10' SACRIFICIAL ANODES:

The Contract Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Provide and properly install three (3) new 10-foot anodes at locations described in Appendix A.
- Provide new wiring, conduits, and connect to the test box per the Construction Drawings.

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1.3 BID ITEMS FOR ADDITIONAL SCOPE NOT INCLUDED IN THE CONTRACT DOCUMENTS

Additional Bid Items listed below are included by the Owner to perform Work not presently identified in the Contract Documents. The Bid Schedule identifies these additional bid items as Allowance bid items.

These bid items may be encountered, and therefore are included as original contract scope. The Contractor is obligated to accomplish the Work identified by the bid item within the original contract duration. The Contractor will not be entitled to an extension of time or an adjustment in contract price beyond that allowed by the bid item price. The Contractor will not receive impact or other indirect costs for Work associated with these bid items.

The Owner reserves the right to vary the allowance bid items purchased by plus or minus 100% of the value of the allowance for the direct costs (labor, material, and equipment) when exercising this right regardless of where the bid item is encountered.

The Owner reserves the right to vary the quantities of the units in the unit priced bid items by plus or minus 100% at the stipulated unit price without providing the Contractor any additional money when exercising this right, regardless of where the bid item is encountered.

Allowance bid items stipulate an allowance amount in dollars, and will be used to pay for the Work as defined in the allowance bid item. The price for the Work performed will be determined by negotiation in accordance with the contract general conditions.

Payment for Allowance Bid Items will be made only when authorized by the Owner's representative.

Payment for all bid items is subject to the retention provisions of the contract

All scoped Allowance Bid Items are included in the scope of the Contract without specific locations for the Work provided. The Owner reserves the right to direct that these scoped items of Work be performed when they are encountered, and the Contractor is obligated to accommodate this Work within the original contract duration. The Contractor will be required to revise his schedule by adding activities to reflect these authorized bid items. This updated schedule will be required on the next schedule update after the Contractor receives written authorization to proceed with the Work. The Contractor will not be entitled to additional time regardless of where the Work is encountered.

Unit Price and Allowance Bid Items for Work not included on the contract documents, but included in the Contract Scope

A. BID ITEM NO. 3.1 – STRUCTURAL MODIFICATION ALLOWANCE:

No measurement will be made for this item.

Payment for additional structural modifications not shown in the drawings or specifications will be made in accordance with the General Conditions as

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directed by the Owner's Representative. Payment for Work under this item will be made only to the extent that Work is specifically authorized by the Owner's Representative. A price for this Work will be negotiated. This item is considered incidental to the Contract and may be adjusted or deleted in its entirety.

B. BID ITEM NO. 3.2 – NEW OVERFLOW PIPING – 978-1 RESERVOIR:

The Lump Sum Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Surface prepare the interior flange of the overflow piping per SSPC-6. See Appendix B, 978-1 Reservoir.
- Replace all interior overflow piping from the shell to 90 degree bend. Submittal Required.

Payment for this item will be made only to the extent that the Work is specifically directed by the Owner's Representative.

C. BID ITEM NO. 3.3 – NEW CENTER ROOF VENT:

The Lump Sum Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Remove the existing center roof vent and provide a new roof vent. Submittal required.

Payment for this item will be made only to the extent that the Work is specifically directed by the Owner's Representative.

D. BID ITEM NO. 3.4 – NEW CENTER HALO SUPPORT:

The Lump Sum Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Install a new center halo support as described in Appendix C

Payment for this item will be made only to the extent that the Work is specifically directed by the Owner's Representative.

E. BID ITEM NO. 3.5 – ¼ STEEL PATCH PLATES:

The Lump Sum Price shall include, but not be limited to, all labor, materials, and equipment to the following principal items:

- Weld new 1/4-inch thick steel plates, max 8-inch diameter, over existing through holes or pitting at the direction of the District.

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Payment for this item will be made only to the extent that the Work is specifically directed by the Owner's Representative.

PART 2 - MEASUREMENT AND PAYMENT

2.1 GENERAL

This section covers methods of measurement and payment for items of work under this Contract. The total Bid Price shall cover all work required by the Contract Documents. All costs in connection with the proper and successful completion of the work, including furnishing all materials, mobilization and demobilization equipment, transportation, supplies, and appurtenances; providing all construction plant, equipment, and tools; and performing all necessary labor and supervision to fully complete the work, shall be included in the unit and lump sum prices bid.

2.2 MEASUREMENT

Measurement for unit price quantities shall be based upon the appropriate bid item in the proposal. The actual quantity of measurement shall be as constructed by the contractor in place in conformance with the Plans and Specifications.

A. Lump Sum Measurement

Measurement for a lump sum bid item shall be considered as a complete project or a completed portion of a project constituting a unit. The items to be included in the lump sum bid shall be as specified in the proposal bid item.

2.3 PAYMENT

A. Payment for Unit Price Items

Payment for a unit price bid item shall be based upon the amount shown in the bid schedule multiplied by the total quantity measurement of the item and shall be full compensation for furnishing all labor, transportation, materials, equipment, tools and appurtenances required for construction of the item complete in place in accordance with the Plans and Specifications.

B. Payment for Lump Sum Items

Payment for lump sum bid items shall be based upon the amount shown in the bid schedule and shall be full compensation for furnishing all labor, transportation, materials, equipment, tools and appurtenances required for construction of the unit complete in place in accordance with the Plans and Specifications.

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PART 3 - EXECUTION

3.1 GENERAL

- A. The Contractor shall determine its own methods of work and detailed work sequence so long as the coordination and schedule requirements defined in the Contract Documents are observed and the overall project completion time is achieved.
- B. All welding and structural modifications must be complete before surface preparation and/or coating is to begin. All items such as safety climb equipment, manway gaskets, fittings, nuts, bolts, and similar appurtenances must be purchased, on site, and field fit before any coating applications begin.
- C. Sequence of work on the interior coating shall be: 1) roof, 2) shell, 3) floor. Sequence of work on the exterior painting shall be: 1) roof, 2) shell
- D. The Contractor shall determine the time and costs associated with accomplishing the required work shown on the contract documents and include the cost in the contract bid price provided for each item of work.
- E. When developing the detailed construction sequence of work, non-interruption of Otay Water District's water supply to customers shall be priority for sequencing. Only one tank site shall be inoperable at any given time. Once the first tank has been given approval by the State Water Resources Board to be put back into service, the District will require up to 10 working days to return the first tank back to service, and drain the other tank.
- F. Shut-down periods for 978-1 & 850-2 Reservoirs will be allowed only under the direction of District staff and coordination with District Operations.

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PART 6 - CONSTRUCTION DRAWINGS

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T-1	TITLE SHEET
G-1	GENERAL NOTES
C-1	978-1 TANK SECTION, VENT, & TANK PENETRATION DETAILS
C-2	978-1 ROOF ACCESS AND LADDER DETAILS
C-3	850-2 TANK SECTION, VENT, & TANK PENETRATION DETAILS
C-4	850-2 ROOF ACCESS AND LADDER DETAILS
C-5	WATER LEVEL INDICATOR
C-6	RAISED HANDHOLE DETAILS
C-7	CONDUIT, WIRE, AND TEST BOX DETAILS