LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 1

Lake Havasu & Mesquite Avenue Paving Rehabilitation

Project No: B25-PW-106017-500586

Dated: November 4, 2024

This addendum forms a part of the contract described above. The original documents in full force and effect are modified by the following changes. Addendum No. 1 will take precedence over any conflicting provision in the prior documents.

Each bidder shall acknowledge receipt of this addendum and by affixing its signature on the acknowledgement form attached, by noting this addendum on the Bid Form and by attaching this Addendum and/or acknowledgement to its bid.

The following changes are to be made and become part of the Bid/Contract Documents. The changes are as follows:

1) Please find the enclosed non-mandatory pre-bid agenda, sign in sheet and contractors questions with written responses prepared by the city.
2) Revised Section 310 of the Bid Proposal.
3) Revised Plan Sheets for Additive Alternates 1 & 2.

By:

James Warne, P.E.

Registered Professional Engineer (Civil) CERTIFICATE NO. 69250 JAMES R. WARNE Date Signed 11/04/2024 ARIZONA, U.S.A.

Date: 11/4/24

Questions Received Via Procurement

1) Does project utilize brass materials on the project?
   Yes, the project requires brass saddles for service connections. Please refer to the water specifications of the project in section 02550.

2) Does the project require Buy American?
   The project specifications does not incorporate the buy American act.

3) Will the project allow cross-linked polyethylene pipe (PEX)?
   The city of Lake Havasu will allow cross linked polyethylene pipe as approved equal. On long side service connection the contractor will be required to place PEX pipe in PVC schedule 40 sleeves.

4) Will Night work be required for the project?
   The city of Lake Havasu generally requires that work in intersections & waterline Tie-Ins be performed at Night time. The work in intersections generally will require a closure and the engineer will give the public notice for the closure. A week notice will be required for all roadway closures.

5) Will Lake Havasu Avenue & Mesquite Avenue Intersection require milling?There is no work shown on the plans for the intersection milling. There is a trench with water valve cans to be replaced in Engineering Alternative 1.

6) Will Quality Control be required on the project?
   The contractor is required to provide Quality Control per Bid Item 2.

7) Is there an Engineering Estimate for the Project?
   Engineering Estimates are not provided for contractors for competitive bid public projects.

8) Will the city of Lake Havasu provide a construction yard?
We do not have a public yard available for the project.

9) Will Construction Water be provided?
The contractor will be required to provide a refundable deposit for the construction water meter. The will be no cost to the contractor for the use of water for city projects.

10) What is the sleeve material for the long size service?
The sleeve shall be PVC schedule 40.

11) Will we require seal coat joints on the asphalt?
Yes, seal coat joints are required on the city projects.

12) Is there a gas line shown on the plans?
All utilities have been coordinated and verified per the engineer of record of Kimley Horn, James Warne.

13) Can we extend the questions deadline of NIB section of the specifications?
The questions may be extended to November 6, 2024 @3:00pm.

Lake Havasu Avenue & Mesquite Avenue Paving Rehabilitation
Non-Mandatory Pre-Bid Meeting Agenda
Wednesday, October 30, 2024 @ 2:00pm

1.) Round table introduction and Sign-In Sheet.

2.) Project Plans and Specifications are available on City website and www.DemandStar.com.

3.) Deadline for questions is November 6, 3:00 pm

4.) The scope of work includes, in general terms, the following:

This project consists of the mill and overlay of Lake Havasu Avenue between the streets of Willow Ave. And Mesquite Ave., Mesquite Ave. between Lake Havasu Ave. and Acoma Blvd. North. Water Main replacement s also included within Lake Havasu Ave. between Alley 23 and Willow Ave. and Mesquite Ave. between Riviera Blvd. and Acoma Blvd. North. The water Main replacement consists of replacing the existing main existing hydrants and service Lines will be replaced from the main to and including the meter box.

5.) Preparation and Submission of Bids:

   a. Found in section 00300.

6.) Contract Time:

   a. There are **180 Calendar days** allotted for the completion of the project.
   b. Bid Opening Date: November 13, 2024
   c. Anticipated Award Date: December 10, 2024
   d. Anticipated Contract Signing Date: December 20, 2024
   e. Anticipated Issuing NTP: Jan 1, 2025
   f. Anticipated Completion date: June 29, 2025

7.) General questions?

PROJECT NAME: Lake Havasu Avenue and Mesquite Ave

PROJECT NO.: B25-PW-106017-500586

DATE: Wednesday October 30 2024

PLEASE PRINT

NAME	COMPANY	EMAIL ADDRESS	PHONE
SHAWN CLARKE	LHC PUBLIC WORKS	CLARKES@LHCAZ.GOV	928-732-2252
ADAM Leprich	Premier BACKHOE	aleprich.premierbackhoe@yahoo.com	702-203-8519
Sam Montgerard	COMBS construction Co.	Mike@combsaz.com	602-920-9336
Drew Booth	Pat Bern Construction	drew.patbern@gmail.com	9282799938
Jarod Lish	Pat Bern Construction	j.lish.patbern@gmail.com	928-713-6174
Kenneth Garcia	Pronghorn Services LLC	kgarcia@pronghorn-services.com	928-515-9986
Brian Morris	〃	bmorris@pronghorn-services.com	808-209-9920
Tom Summers	〃	Tsummers@pronghorn-services.com	928-420-1005
James Warner	Kimley Horn		
Susie Fox	LHC - Procurement	foxs@lhcaz.gov	928-855-4078
Brent Cummings	LHC - CIP	Cummingsbe1HCAZ.gov	928-854-0789
GREG HANSON	LHC - Eng	HANSONG@LHCAZ.GOV	928-302-4360
Brian Dean	Western Technologies	bdean@wma-western.com	928-296-0068

LAKE HAVASU CITY, ARIZONA
ADMINISTRATIVE SERVICES DEPARTMENT
♦ PROCUREMENT ♦

REQUEST FOR PROPOSALS
STREET PAVEMENT PRIORITY PROGRAM - MESQUITE AVENUE & LAKE HAVASU AVENUE
B25-PW-106017-500586
ADDENDUM NO. 1
10/29/2024

Attention is called to the following changes, additions, clarifications and/or deletions to the original solicitation, and they shall be taken into account in preparing submissions:

This Addendum changes or adds the following:

1. SPECIFICATION DOCUMENT CHANGES:

1.1. **Replace** Section 00020 Notice Inviting Bids **with the following:**
Notice Inviting Bids

Changes to the Notice Inviting Bids are as follows:

- Project Description has been updated to outline the improvements included in the base bid and the bid alternates.

1.2. **Replace** 00310 Bid Schedule **with the following**:

Bid Schedule

Changes to the Bid Schedule are as follows:

- Bid Items have been divided into Base Bid, Bid Alternate 1, and Bid Alternate 2.

2. PLAN SET CHANGES:

2.1. **Replace** Plan Sheets 09 through 11 and 20 through 23 **with the following:**
Revision 1 Plan Sheets 09 through 11 and 20 through 23

Changes to the Plan Set is as follows:

- Improvements have been identified as part of Bid Alternate 1.

2.2. **Replace** Plan Sheets 30 through 32 **with the following:**
Revision 2 Plan Sheets 30 through 32

Changes to the Plan Set is as follows:

- Improvements have been identified as part of Bid Alternate 2.

SECTION 00020

NOTICE INVITING BIDS

Lake Havasu City

PROJECT NO.: **B25-PW-106017-500586**

PROJECT NAME: **Lake Havasu Avenue & Mesquite Avenue Paving Rehabilitation**

PRE-BID MEETING: A **NON-MANDATORY Pre-Bid Meeting** will be held at 900 London Bridge Road, Lake Havasu City, AZ 86403; Room OpsA101, at 2:00 PM, Arizona Time, on Wednesday, October 30, 2024

BID DUE DATE: **November 13TH 2024**

BID DUE TIME: **3:00 p.m., ARIZONA TIME**

PROJECT DESCRIPTION:

This project consists of the mill and overlay of Lake Havasu Ave. between Willow Ave. and Mesquite Ave., Mesquite Ave. between Lake Havasu Ave. and Acoma Blvd. North. Water main replacement is also included within Lake Havasu Ave. between Alley 23 and Willow Ave. and Mesquite Ave. between Riviera Blvd. and Acoma Blvd. North. The water main replacement consists of replacing of the existing main existing hydrants and service lines will be replaced from the main to and including the meter box. The bid will be broken down into a Base Bid and 2 Bid Alternates. The base bid will include the mill and overlay of Mesquite Avenue and the water main improvements from Riviera Blvd. to Pima Wash. Bid Alternate 1 will consist of the mill and overlay of Lake Havasu Ave. and the Lake Havasu Ave. water main improvements as described above. Bid Alternate 2 will consist of the water main improvements with Mesquite Ave. from Pima Wash to Acoma Blvd.

QUESTIONS: All questions that arise relating to this solicitation shall be directed in writing to purchasing@lhcaz.gov with a copy to engineeringinfo@lhcaz.gov . To be considered, written inquiries shall be received at the above-referenced email address by November 6, 2024, 3:00 p.m. Arizona Time. Inquiries received will then be answered in an Addendum.

Sealed bids for the project specified will be received by the **City Clerk's Office, 2330 N. McCulloch Boulevard, Lake Havasu City, Arizona, 86403** until the time and date stated. **Bids received by the correct time and date will be opened and read aloud immediately thereafter in Room 109 of Lake Havasu City Hall.** Public openings may be attended virtually by accessing the following video conferencing system:

To join the meeting on a computer or mobile phone:
https://tinyurl.com/3f94b2ww
Meeting ID: 270 366 031 956

Passcode: jcVbxK

Join with a video conferencing device
160264325@teams.bjn.vc
Video Conference ID: 112 219 692 0

Bids must be clearly addressed to the City Clerk's Office, 2330 McCulloch Blvd. N, Lake Havasu City, Arizona, 86403, and received no later than the exact time and date indicated above. Late bids will not be considered under any circumstances.

Bids must be submitted in a sealed envelope with the Project Number and the bidder's name and address clearly indicated on the envelope. All bids must be completed in ink or typewritten on a form to be obtained from the specifications and a complete Invitation for Bid returned along with the offer no later than the time and date cited above.

Bidders interested in taking advantage of the streamlined e-Bid and e-Bond process shall submit their bids electronically via the City's DemandStar Network at https://www.demandstar.com/app/buyers/bids/428384/details. Paper bids and paper bid bonds will continue to be accepted. Bidders submitting e-Bids will be required to scan and enclose their paper bid bond/cashier's check with their electronic bid submission. The apparent low bidder shall submit their original bid bond/cashier's check within three (3) business days following the Bid opening.

Bid documents and specifications are available on Lake Havasu City's website at www.lhcaz.gov or on DemandStar at www.demandstar.com. For documents obtained outside of DemandStar please contact purchasing@lhcaz.gov to be added to the planholders' list.

For technical information, contact Shawn Clarke, Civil Engineer, at ClarkeS@lhcaz.gov with a copy to purchasing@lhcaz.gov .

BONDS:

Bid Bond:	10%
Labor and Material Bond:	100%
Faithful Performance Bond:	100%

Project Completion Date: 180 after Notice to Proceed.

Lake Havasu City reserves the right to accept or reject any or all bids or any part thereof and waive informalities deemed in the best interest of the City.

Pursuant to the Americans with Disabilities Act (ADA), Lake Havasu City endeavors to ensure the accessibility of all of its programs, facilities and services to all persons with disabilities. If you need an accommodation for this meeting, please contact the City Clerk's office at (928) 453-4142 at least 24 hours prior to the meeting so that an accommodation may be arranged.

Publication Dates: TODAY'S NEWS HEARLD – October 16, 2024 & October 23, 2024
ARIZONA BUSINESS GAZETTE – October 17,2024 & October 24, 2024

** END OF SECTION **
SECTION 00020

SECTION 00310

BID SCHEDULE
LAKE HAVASU CITY

Street Pavement Priority Program – Mesquite Ave. & Lake Havasu Ave.
B25-PW-106017-500586

Lake Havasu City Council
Lake Havasu City
2330 N. McCulloch Boulevard
Lake Havasu City, AZ 86403

The City Council:

Pursuant to request for bids to be opened the 13 day of November, 2024 at 3:00 P.M., Arizona Time, at Room 109 of Lake Havasu City Hall, for the above project, the Contractor proposes to complete work, including furnishing all labor and materials, per the Specifications and Plans at the Following prices.

This Schedule of Items and Prices shall be completed in ink or typed by the Bidding Contractor. In case of discrepancy between the word and figure amount description, the word description shall control extensions.

Prices must be entered for each item and the appropriate subtotal and total blank shall be filled out. Bid prices shall include sales tax and all other applicable taxes and fees.

Bidder agrees to perform all the necessary work to complete the **Street Pavement Priority Program – Mesquite Ave. & Lake Havasu Ave., B25-PW-106017-500586**

BID SCHEDULE – Street Pavement Priority Program – Mesquite Ave. & Lake Havasu Ave., B25-PW-106017-500586

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
	BASE BID					
1	Construction Staking	1	L.S.	_____	$_____	$_____
2	Contractor Quality Control	1	L.S.	_____	$_____	$_____
3	Mobilization, Bonds, and Insurance	1	L.S.	_____	$_____	$_____
4	Stormwater Pollution Prevention Plan	1	L.S.	_____	$_____	$_____
5	Environmental Control Measures	1	L.S.	_____	$_____	$_____
6	Traffic Control	1	L.S.	_____	$_____	$_____
7	Remove by Roto-Milling Existing 2 ½" Asphalt Pavement, MAG SPEC 317	37,518	S.Y.	_____	$_____	$_____
8	Sawcut Existing Asphalt Pavement	1,130	L.F.	_____	$_____	$_____
9	2 ½" Asphalt Concrete Surface Course (1/2" mix), LHC TECH SPEC 02630 & 02635	37,518	S.Y.	_____	$_____	$_____
10	AC Bituminous Tack Coat	37,518	S.Y.	_____	$_____	$_____
11	Adjust Existing Valve Concrete Collar, MAG DTL 391-2	30	E.A.	_____	$_____	$_____

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
12	Adjust Existing Manhole Frame and Cover, MAG DTL 422	12	E.A.	_____	$_____	$_____
13	Utility Trench, LHC STD DTL 200	4,604	L.F.	_____	$_____	$_____
14	Remove Existing Gate Valve, LHC TECH SPEC	16	E.A.	_____	$_____	$_____
15	Connect to Existing Water Main	5	E.A.	_____	$_____	$_____
16	Abandon Existing Water Main, Pipe in Place per LHC TECH SPEC 02550	2,378	L.F.	_____	$_____	$_____
17	Remove Hydrant, Abandon & Cap Lateral	6	E.A.	_____	$_____	$_____
18	Install 8” PVC C900 Water Main	2,404	L.F.	_____	$_____	$_____
19	Install 6” PVC C900 Water Main	281	L.F.	_____	$_____	$_____
20	Install 4” PVC C900 Water Main	92	L.F.	_____	$_____	$_____
21	Remove and Replace Existing Curb per LHC STD DTL 213	243	L.F.	_____	$_____	$_____
23	Remove and Replace Existing Sidewalk Per LHC STD DTL 216	1,158	S.F.	_____	$_____	$_____
24	Install 8” Gate Valve per LHC STD DTL 300	10	E.A.	_____	$_____	$_____
25	Install 6” Gate Valve per LHC STD DTL 300	7	E.A.	_____	$_____	$_____

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
26	Install 4" Gate Valve per LHC STD DTL 300	1	E.A.		$	$
27	Install 1" Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	27	E.A.		$	$
29	Install 2" Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	4	E.A.		$	$
30	Install 2" Air/Vacuum Valve and 2" Blow-Off Valve per, LHC STD DTL 311	1	E.A.		$	$
31	Install Fire Line, Valve, Tee and Fire Hydrant, LHC STD DTL 320	8	E.A.		$	$
32	Long Line Service Conduit, LHC STD DTL 301 & 303	374	L.F.		$	$
33	Encase Water and Sewer Pipe at Crossing, LHC STD DTL 401C	2	E.A.		$	$
34	Force Account	1	L.S.	One hundred sixty thousand	$ 160,000	$ 160,000
	BASE BID TOTAL + FORCE ACCOUNT				$	$
	BID ALTERNATE 1 (LAKE HAVASU AVENUE IMPROVEMENTS)					
7	Remove by Roto-Milling Existing 2 ½" Asphalt Pavement, MAG SPEC 317	8,471	S.Y.		$	$
8	Sawcut Existing Asphalt Pavement	191	L.F.		$	$

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
9	2 ½" Asphalt Concrete Surface Course (1/2" mix), LHC TECH SPEC 02630 & 02635	8,471	S.Y.	_____ _____	$_____	$_____
10	AC Bituminous Tack Coat	8,471	S.Y.	_____ _____	$_____	$_____
11	Adjust Existing Valve Concrete Collar, MAG DTL 391-2	5	E.A.	_____ _____	$_____	$_____
12	Adjust Existing Manhole Frame and Cover, MAG DTL 422	9	E.A.	_____ _____	$_____	$_____
13	Utility Trench, LHC STD DTL 200	1,012	L.F.	_____ _____	$_____	$_____
14	Remove Existing Gate Valve, LHC TECH SPEC	10	E.A.	_____ _____	$_____	$_____
15	Connect to Existing Water Main	2	E.A.	_____ _____	$_____	$_____
16	Abandon Existing Water Main, Pipe in Place per LHC TECH SPEC 02550	980	L.F.	_____ _____	$_____	$_____
17	Remove Hydrant, Abandon & Cap Lateral	2	E.A.	_____ _____	$_____	$_____
18	Install 8" PVC C900 Water Main	1,012	L.F.	_____ _____	$_____	$_____
19	Install 6" PVC C900 Water Main	164	L.F.	_____ _____	$_____	$_____
20	Install 4" PVC C900 Water Main	58	L.F.	_____ _____	$_____	$_____

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
22	Remove and Replace Existing Curb and Gutter per LHC STD DTL 214	105	L.F.	_____	$_____	$_____
23	Remove and Replace Existing Sidewalk Per LHC STD DTL 216	989	S.F.	_____	$_____	$_____
24	Install 8” Gate Valve per LHC STD DTL 300	6	E.A.	_____	$_____	$_____
25	Install 6” Gate Valve per LHC STD DTL 300	5	E.A.	_____	$_____	$_____
26	Install 4” Gate Valve per LHC STD DTL 300	1	E.A.	_____	$_____	$_____
27	Install 1” Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	6	E.A.	_____	$_____	$_____
28	Install 1 ½” Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	1	E.A.	_____	$_____	$_____
29	Install 2” Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	3	E.A.	_____	$_____	$_____
31	Install Fire Line, Valve, Tee and Fire Hydrant, LHC STD DTL 320	3	E.A.	_____	$_____	$_____
32	Long Line Service Conduit, LHC STD DTL 301 & 303	436	L.F.	_____	$_____	$_____
	BID ALTERNATE 1 TOTAL			_____	$_____	$_____

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
	BID ALTERNATE 2 (MESQUITE AVENUE WATER IMPROVEMENTS FROM PIMA WASH TO ACOMA BOULEVARD)					
13	Utility Trench, LHC STD DTL 200	1,034	L.F.	_____ _____	$_____	$_____
14	Remove Existing Gate Valve, LHC TECH SPEC	7	E.A.	_____ _____	$_____	$_____
15	Connect to Existing Water Main	2	E.A.	_____ _____	$_____	$_____
16	Abandon Existing Water Main, Pipe in Place per LHC TECH SPEC 02550	1,024	L.F.	_____ _____	$_____	$_____
17	Remove Hydrant, Abandon & Cap Lateral	3	E.A.	_____ _____	$_____	$_____
18	Install 8” PVC C900 Water Main	1,034	L.F.	_____ _____	$_____	$_____
19	Install 6” PVC C900 Water Main	88	L.F.	_____ _____	$_____	$_____
21	Remove and Replace Existing Curb per LHC STD DTL 213	67	L.F.	_____ _____	$_____	$_____
23	Remove and Replace Existing Sidewalk Per LHC STD DTL 216	415	S.F.	_____ _____	$_____	$_____
24	Install 8” Gate Valve per LHC STD DTL 300	7	E.A.	_____ _____	$_____	$_____
25	Install 6” Gate Valve per LHC STD DTL 300	3	E.A.	_____ _____	$_____	$_____
27	Install 1” Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	4	E.A.	_____ _____ _____	$_____	$_____

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE (Word)	UNIT PRICE (Figure)	ITEM TOTAL COSTS
29	Install 2" Saddle and Water Service and Connect to Existing Meter, LHC STD DTL 301 & 303	1	E.A.	_____	$_____	$_____
30	Install 2" Air/Vacuum Valve and 2" Blow-Off Valve per, LHC STD DTL 311	1	E.A.	_____	$_____	$_____
31	Install Fire Line, Valve, Tee and Fire Hydrant, LHC STD DTL 320	4	E.A.	_____	$_____	$_____
32	Long Line Service Conduit, LHC STD DTL 301 & 303	129	L.F.	_____	$_____	$_____
	BID ALTERNATE 2 TOTAL			_____	$_____	$_____
	BASE BID PLUS BID ALTERNATE 1 TOTAL			_____	$_____	$_____
	BASE BID PLUS BID ALTERNATE 2 TOTAL			_____	$_____	$_____
	BASE BID PLUS BID ALTERNATES 1 & 2 TOTAL			_____	$_____	$_____

Above line items and totals shall include all work shown on the plans and specified herein, including taxes, insurance and bonding.

[1] The "Unit Price" column shall indicate unit or lump sum prices for each bid item and shall be indicated in written and numerical form.
[2] The "Item Total Costs" column shall indicate the extension of the unit prices, which is obtained by multiplying the "Estimated Quantity" column by the "Unit Price" column.
[3] The "Bid Total" amount shall be the sum of all costs listed in the "Item Total Costs" column.

The unit prices for **Street Pavement Priority Program – Mesquite Ave. & Lake Havasu Ave., B25-PW-106017-500586** shall include all labor, materials, water disposal, bailing, shoring, removal, disposal, overhead, profit, insurance, and all other related costs and work to cover the finished work of the several kinds called for. Changes in the Contract shall be processed in accordance with Paragraph 16 of the General Conditions.

Bidder understands that the Owner reserves the right to reject any or all Bids, or portions thereof, and to waive any informalities in the bidding.

The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving Bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder shall execute the formal Contract attached within 10 days and deliver a Performance Bond, Payment Bond, and Certificates of Insurance as required by Paragraph 25 of the General Conditions and the Special Provisions.

The Bid security attached in the sum of $_____ is to become the property of the Owner in the event the Contract and Bond(s) are not executed and provided within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

Bidder hereby acknowledges receipt of the following Addenda: ___, ___, ___.

RESPECTFULLY SUBMITTED BY:

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

_____

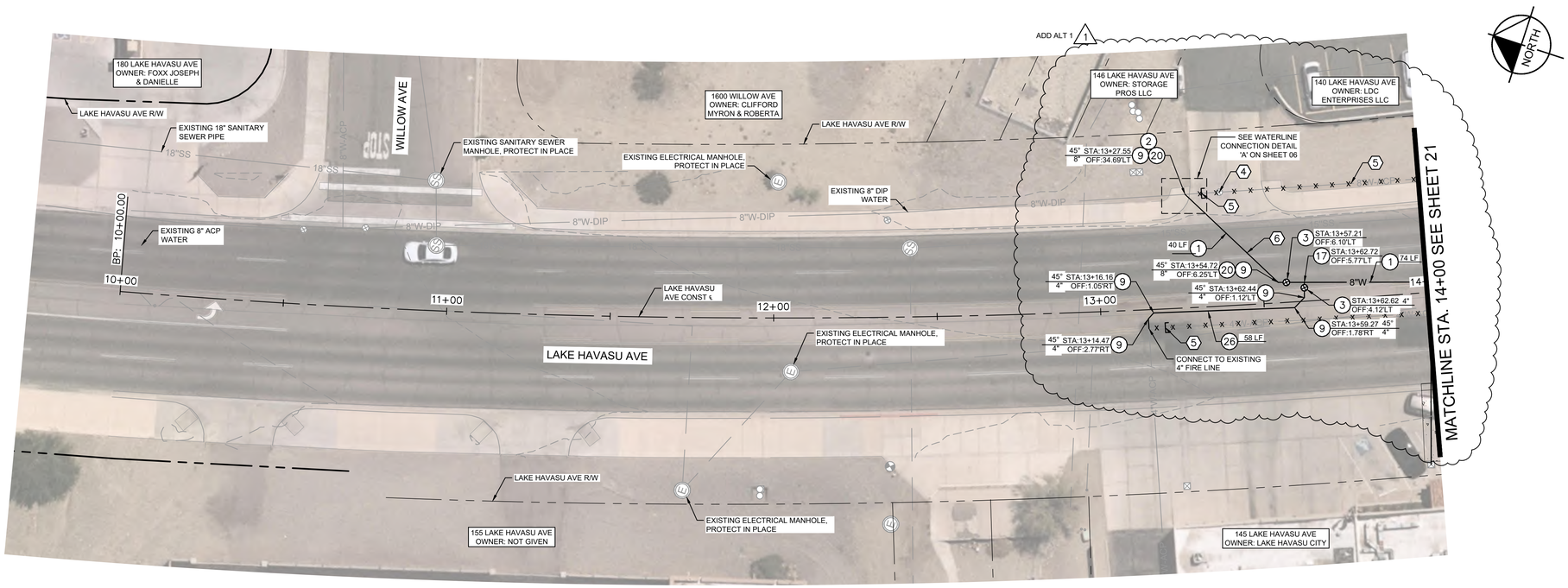
PHONE: _____FAX_____

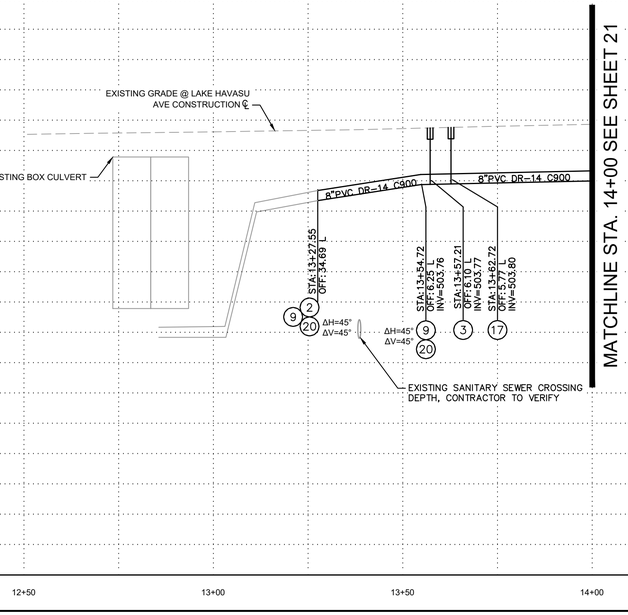
EMAIL: _____

Seal - if Bid by a corporation

AZ Contractor's License No:_____Type_____

** END OF SECTION **





REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.
6	SAWCUT, REMOVE, AND REPLACE (6'-WIDE) EXISTING PAVEMENT IN KIND. UTILITY TRENCH PATCH PER LHC STD. DTL. 200

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
2	CONNECT TO EXISTING WATER MAIN USING FLEX COUPLINGS. SIZE PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
17	INSTALL 8"x4" REDUCER WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
20	VERTICAL JOINT DEFLECTION, 1° MAXIMUM PER MANUFACTURER RECOMMENDATIONS.
26	INSTALL 4" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.

1 ADD ALT 1
REMOVE WATER MAIN IMPROVEMENTS & PAVING LAKE HAVASU AVENUE

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
2. CONNECTION DETAIL SHOWING INSTALLATION OF NEW WATERLINE AND PERTINENT REMOVALS MAY REQUIRE PHASING. CONTRACTOR SHALL CONSIDER WORK SEQUENCE BY MEANS AND METHODS.
3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED USING JOINT RESTRAINT TABLE.
4. RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS WHERE LENGTHS CAN FIT. RESTRAINT LENGTHS PER RESTRAINT TABLE ON SHEET 05.
5. CONTRACTOR SHALL POTHOLE AND TAKE ALL REASONABLE EFFORT AND ACTION TO SATISFY HIMSELF ON THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW MAIN. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ADJUSTMENTS REQUIRED TO CONNECT TO EXISTING MAINS SHOWN AT DIFFERENT ELEVATIONS THAN IN PLANS.
6. WATERLINE SHALL BE INSTALLED AT THE ELEVATIONS SHOWN ON THE PLANS WITH THE INTENT OF 3 FEET OF COVER. CONTRACTOR SHALL MAINTAIN 3-FOOT MINIMUM COVER UNLESS OTHERWISE NOTED IN PLANS.
7. CONTRACTOR SHALL PLACE FLOWABLE FILL PER DTL NO. 1 IN AREAS OF PUBLIC UTILITY MAIN CROSSINGS WHERE APPROPRIATE COMPACTION CANNOT BE MET.
8. CONTRACTOR TO POTHOLE ANY/ALL POINTS OF CONNECTION FOR ALIGNMENT AND GRADE. CONTRACTOR SHALL TRANSITION FROM POINT OF CONNECTION AT SLOPE SHOWN TO OBTAIN AND MAINTAIN COVER. DO NOT USE FITTINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. A MINIMUM OF 3-FEET OF COVER MUST BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE STATUTE. CONTRACTOR SHALL BEAR ALL COSTS OF FITTINGS NOT SHOWN IN PLANS REQUIRED TO MAKE GRADE.
9. WATERLINE DISINFECTION SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(J)(3).
10. WATERLINE HYDROSTATIC TESTING SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(C)(2).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2.5 5 10
VERTICAL

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LAKE HAVASU CITY

NO.	REVISIONS / SUBMISSIONS	DATE
1	BID ALTERNATE 1	10/29/2024
=	-	-
=	-	-
=	-	-

Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

LAKE HAVASU CITY

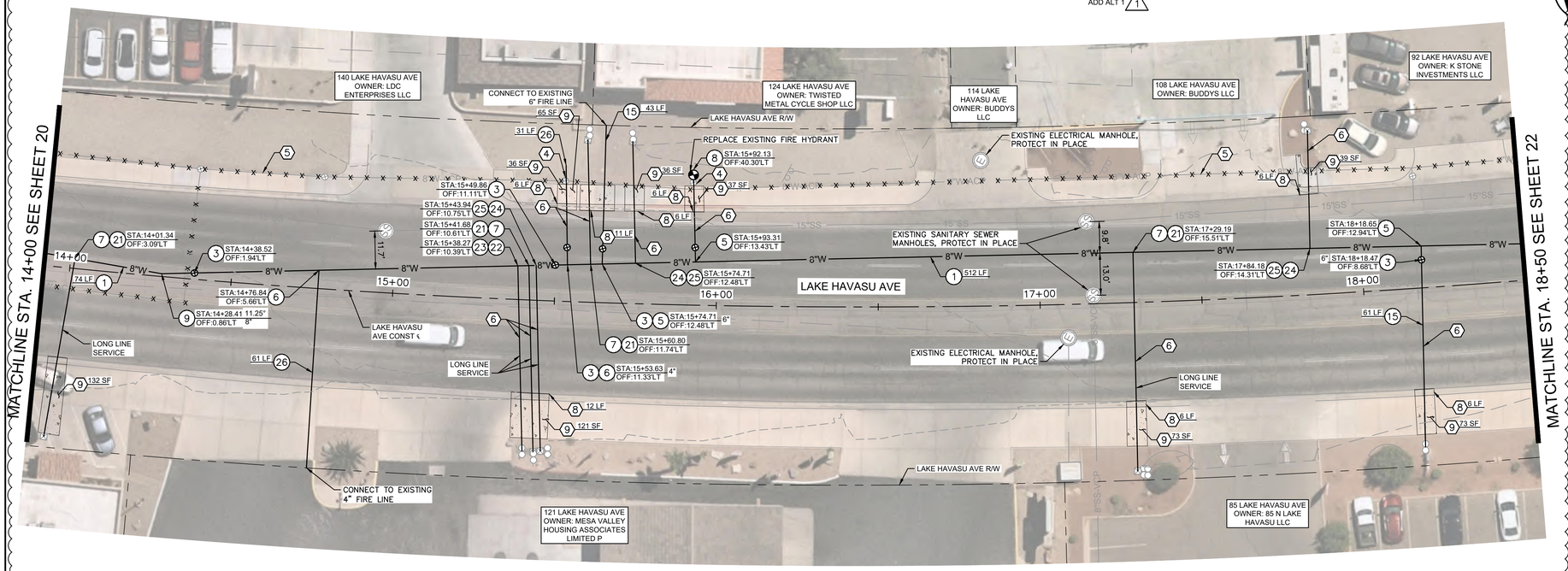
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

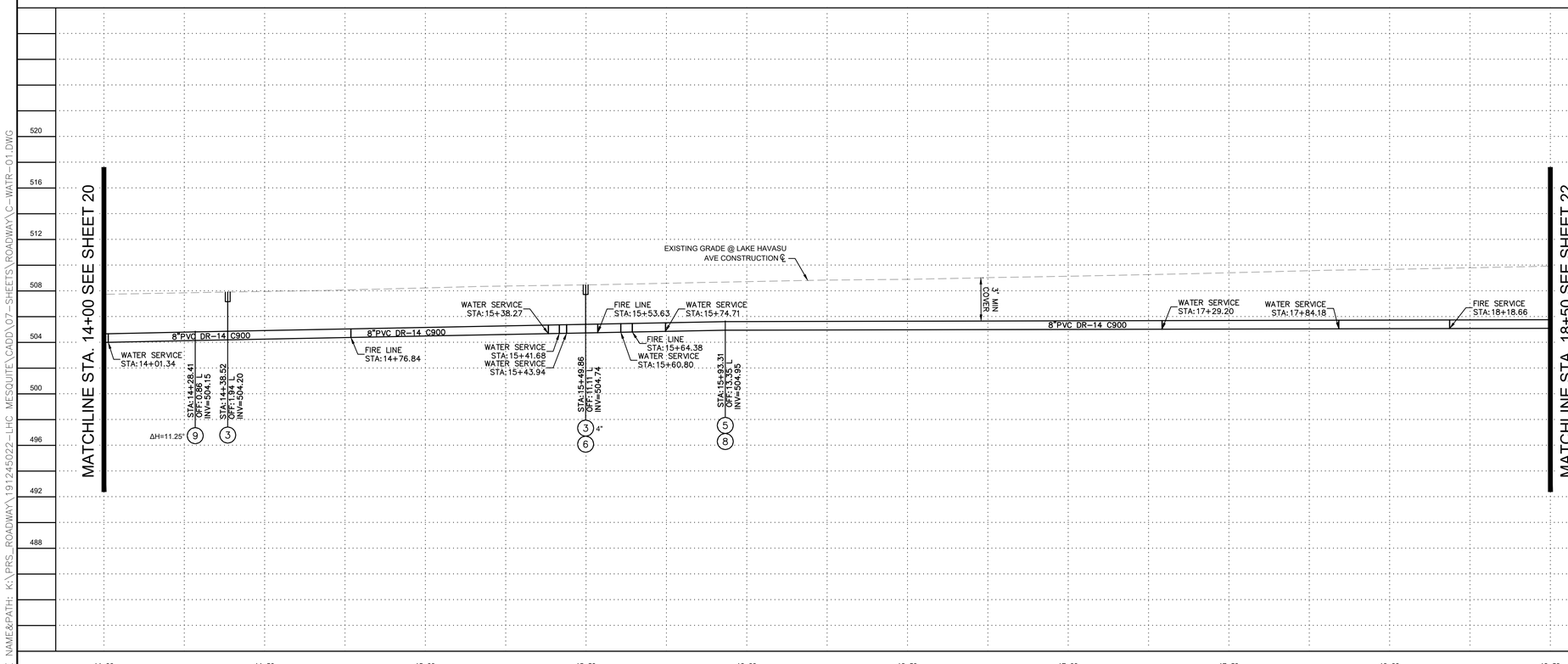
WATER PLAN & PROFILE - LAKE HAVASU AVE STA 10+00 TO 14+00

Registered Professional Engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, U.S.A.

Sheet Number:
WT01
Sheet 20 OF 32

FILE NAME&PATH: K:_PRS_ROADWAY\191245022-LHC MESQUITE\CADD\07-SHEETS\ROADWAY\C-WATR-01.DWG





REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.
6	SAWCUT, REMOVE, AND REPLACE (6'-WIDE) EXISTING PAVEMENT IN KIND. UTILITY TRENCH PATCH PER LHC STD. DTL. 200
8	REMOVE AND REPLACE EXISTING CURB AND GUTTER PER LHC STD. DTL. 214.
9	REMOVE AND REPLACE EXISTING SIDEWALK PER LHC STD. DTL. 216.

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
5	INSTALL 8"x6" DI TEE WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
6	INSTALL 8"x4" TEE WITH RESTRAINED JOINT PER LHC TECH SPEC. 02550.
7	INSTALL 1" SADDLE ASSEMBLY PER LHC STD. DTL. 303. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
8	INSTALL NEW HYDRANT ASSEMBLY PER LHC STD. DTL. 320.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
15	INSTALL 6" PVC C900 DR14 WATER PIPE PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
20	VERTICAL JOINT DEFLECTION, 1° MAXIMUM PER MANUFACTURER RECOMMENDATIONS.
21	INSTALL 1" SERVICE ASSEMBLY PER LHC STD. DTL. 301. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
22	INSTALL 1.5" SADDLE ASSEMBLY PER LHC STD. DTL. 304. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
23	INSTALL 1.5" SERVICE ASSEMBLY PER LHC STD. DTL. 305. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
24	INSTALL 2" SADDLE ASSEMBLY IPER LHC STD. DTL. 304. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
25	INSTALL 2" SERVICE ASSEMBLY PER LHC STD. DTL. 305. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
26	INSTALL 4" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.

1 ADD ALT 1
REMOVE WATER MAIN IMPROVEMENTS & PAVING LAKE HAVASU AVENUE

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
2. CONNECTION DETAIL SHOWNG INSTALLATION OF NEW WATERLINE AND PERTINENT REMOVALS MAY REQUIRE PHASING. CONTRACTOR SHALL CONSIDER WORK SEQUENCE BY MEANS AND METHODS.
3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED USING JOINT RESTRAINT TABLE.
4. RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS WHERE LENGTHS CAN FIT. RESTRAINT LENGTHS PER RESTRAINT TABLE ON SHEET 05.
5. CONTRACTOR SHALL POTHOLE AND TAKE ALL REASONABLE EFFORT AND ACTION TO SATISFY HIMSELF ON THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW MAIN. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ADJUSTMENTS REQUIRED TO CONNECT TO EXISTING MAINS SHOWN AT DIFFERENT ELEVATIONS THAN IN PLANS.
6. WATERLINE SHALL BE INSTALLED AT THE ELEVATIONS SHOWN ON THE PLANS WITH THE INTENT OF 3 FEET OF COVER. CONTRACTOR SHALL MAINTAIN 3-FOOT MINIMUM COVER UNLESS OTHERWISE NOTED IN PLANS.
7. CONTRACTOR SHALL PLACE FLOWABLE FILL PER DTL NO. 1 IN AREAS OF PUBLIC UTILITY MAIN CROSSINGS WHERE APPROPRIATE COMPACTION CANNOT BE MET.
8. CONTRACTOR TO POTHOLE ANY/ALL POINTS OF CONNECTION FOR ALIGNMENT AND GRADE. CONTRACTOR SHALL TRANSITION FROM POINT OF CONNECTION AT SLOPE SHOWN TO OBTAIN AND MAINTAIN COVER. DO NOT USE FITTINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. A MINIMUM OF 3-FEET OF COVER MUST BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE STATUTE. CONTRACTOR SHALL BEAR ALL COSTS OF FITTINGS NOT SHOWN IN PLANS REQUIRED TO MAKE GRADE.
9. WATERLINE DISINFECTION SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(L)(3).
10. WATERLINE HYDROSTATIC TESTING SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(C)(2).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2.5 5 10
VERTICAL

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NO.	REVISIONS / SUBMISSIONS	DATE
1	BID ALTERNATE 1	10/29/2024
	-	-
	-	-
	-	-

Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

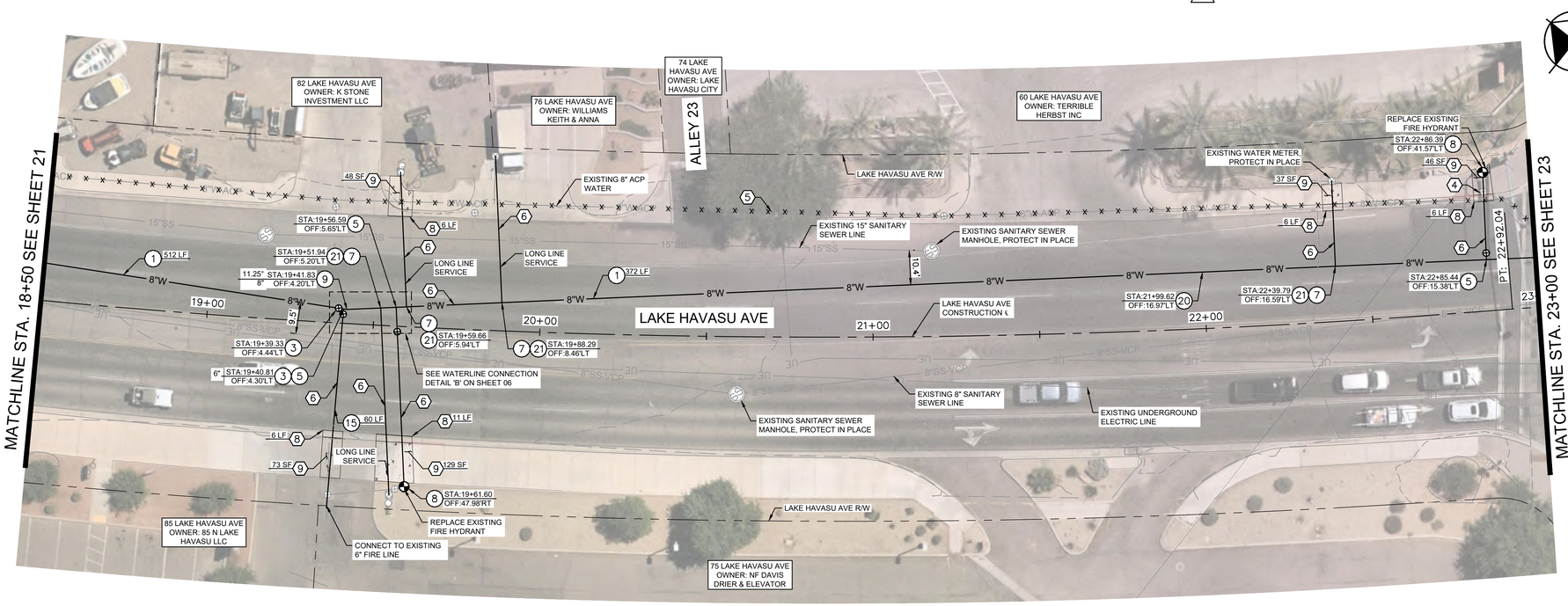
LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

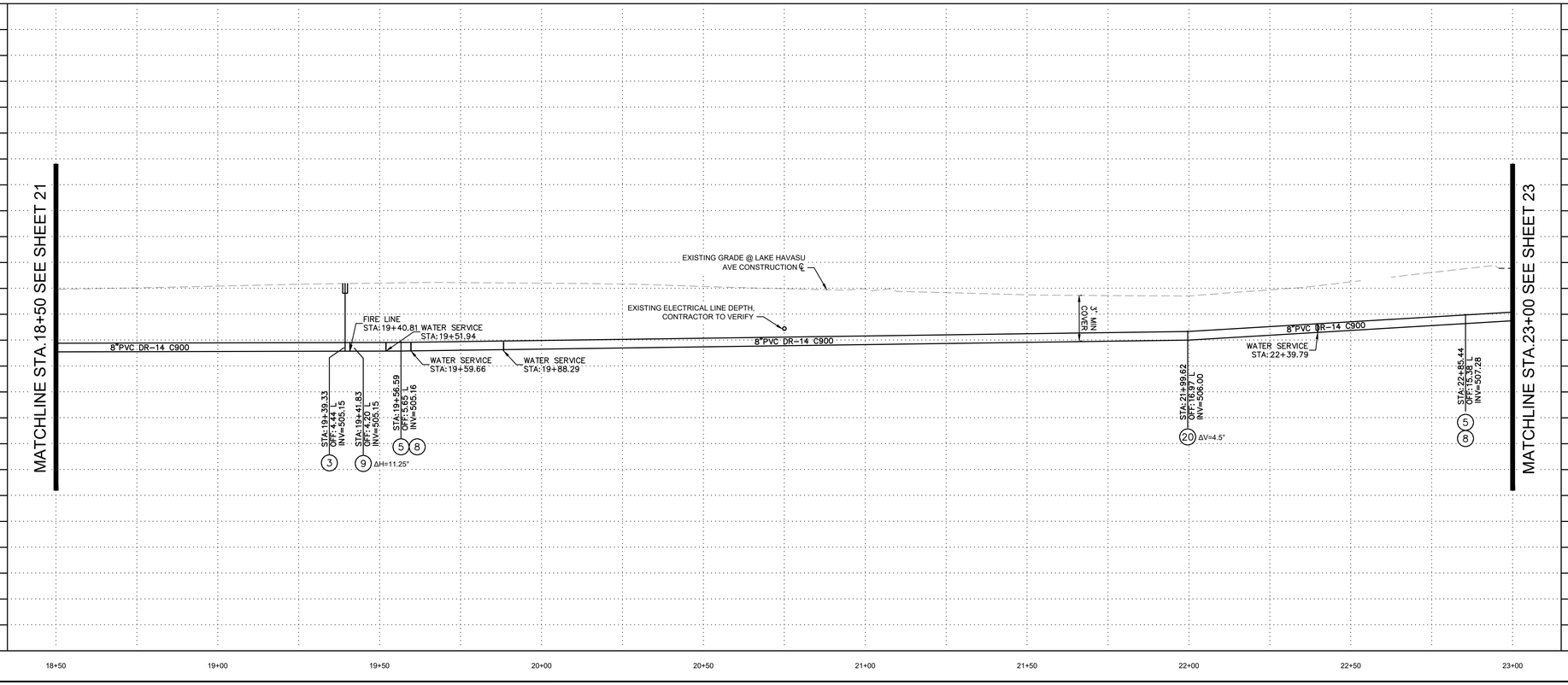
WATER PLAN & PROFILE - LAKE HAVASU AVE STA 14+00 TO 18+50

Registered Professional Engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, USA

Sheet Number:
WT02
Sheet 21 OF 32

FILE NAME&PATH: K:\PRS_ROADWAY\191245022-LHC MESQUITE\CADD\07-SHEETS\ROADWAY\C-WATR-01.DWG





REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.
6	SAWCUT, REMOVE, AND REPLACE (6'-WIDE) EXISTING PAVEMENT IN KIND. UTILITY TRENCH PATCH PER LHC STD. DTL. 200
8	REMOVE AND REPLACE EXISTING CURB AND GUTTER PER LHC STD. DTL. 214.
9	REMOVE AND REPLACE EXISTING SIDEWALK PER LHC STD. DTL. 216.

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
5	INSTALL 8"x6" DI TEE WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
7	INSTALL 1" SADDLE ASSEMBLY PER LHC STD. DTL. 303. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
8	INSTALL NEW HYDRANT ASSEMBLY PER LHC STD. DTL. 320.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
15	INSTALL 6" PVC C900 DR14 WATER PIPE PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
20	VERTICAL JOINT DEFLECTION, 1° MAXIMUM PER MANUFACTURER RECOMMENDATIONS.
21	INSTALL 1" SERVICE ASSEMBLY PER LHC STD. DTL. 301. CONNECT TO EXISTING METER OR IRRIGATION VALVE.

1 ADD ALT 1
REMOVE WATER MAIN IMPROVEMENTS & PAVING LAKE HAVASU AVENUE

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
2. CONNECTION DETAIL SHOWING INSTALLATION OF NEW WATERLINE AND PERTINENT REMOVALS MAY REQUIRE PHASING. CONTRACTOR SHALL CONSIDER WORK SEQUENCE BY MEANS AND METHODS.
3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED USING JOINT RESTRAINT TABLE.
4. RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS WHERE LENGTHS CAN FIT. RESTRAINT LENGTHS PER RESTRAINT TABLE ON SHEET 05.
5. CONTRACTOR SHALL POTHOLE AND TAKE ALL REASONABLE EFFORT AND ACTION TO SATISFY HIMSELF ON THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW MAIN. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ADJUSTMENTS REQUIRED TO CONNECT TO EXISTING MAINS SHOWN AT DIFFERENT ELEVATIONS THAN IN PLANS.
6. WATERLINE SHALL BE INSTALLED AT THE ELEVATIONS SHOWN ON THE PLANS WITH THE INTENT OF 3 FEET OF COVER. CONTRACTOR SHALL MAINTAIN 3-FOOT MINIMUM COVER UNLESS OTHERWISE NOTED IN PLANS.
7. CONTRACTOR SHALL PLACE FLOWABLE FILL PER DTL NO. 1 IN AREAS OF PUBLIC UTILITY MAIN CROSSINGS WHERE APPROPRIATE COMPACTION CANNOT BE MET.
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9. WATERLINE DISINFECTION SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(J)(3).
10. WATERLINE HYDROSTATIC TESTING SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(C)(2).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2.5 5 10
VERTICAL

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NO.	REVISIONS / SUBMISSIONS	DATE
1	BID ALTERNATE 1	10/29/2024
	-	-
	-	-
	-	-

LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

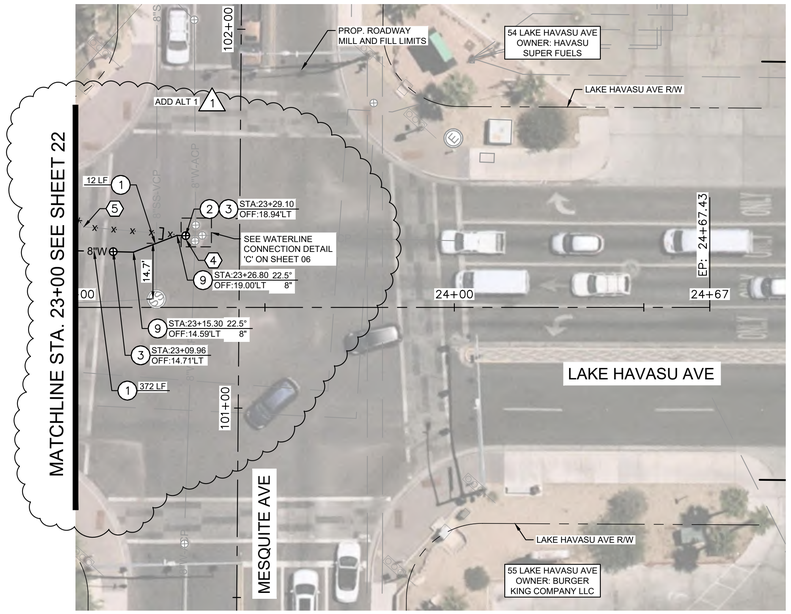
Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

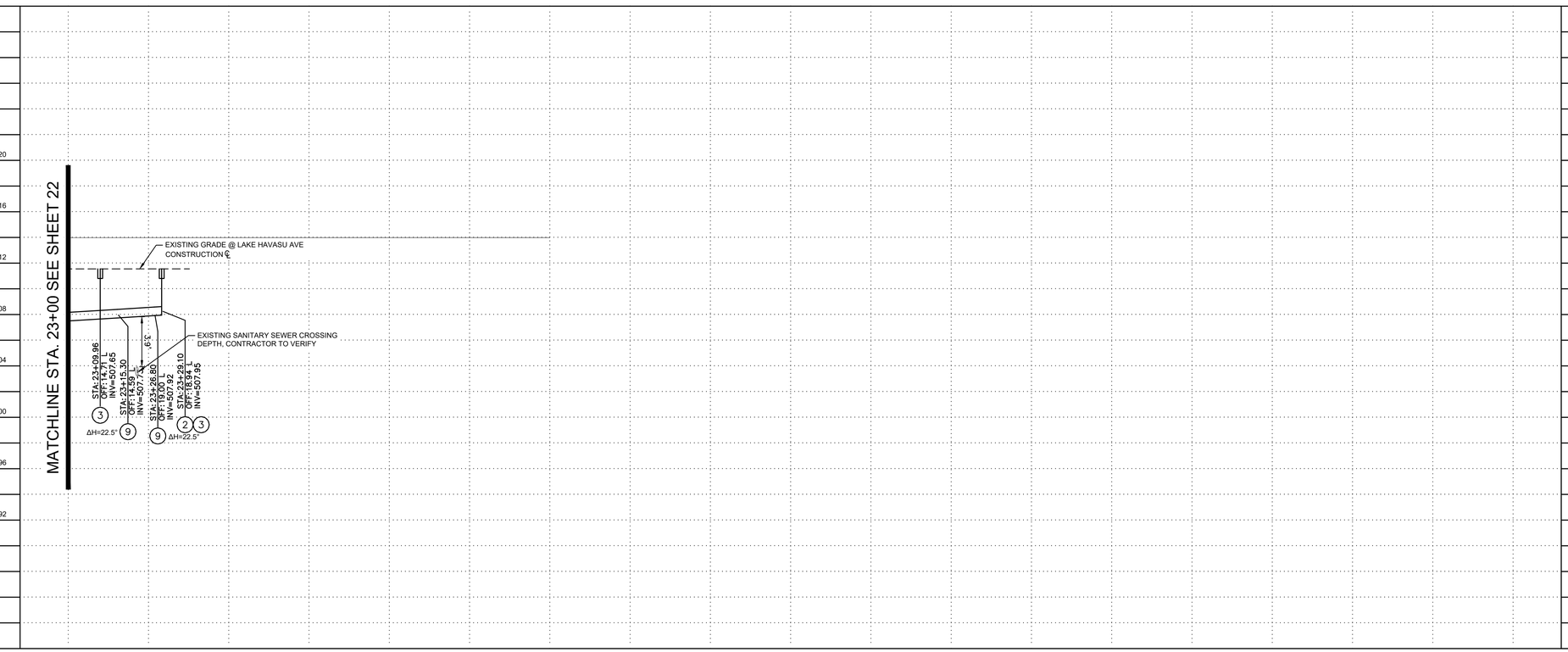
WATER PLAN & PROFILE - LAKE HAVASU AVE STA 18+50 TO 23+00

Registered Professional Engineer (Civil) CERTIFICATE NO. 69250 JAMES R. WARNE 10/29/24 Date Signed ARIZONA, U.S.

Sheet Number:
WT03
Sheet 22 OF 32

FILE NAME&PATH: K:\PRS_ROADWAY\191245022-LHC MESQUITE\CADD\07-SHEETS\ROADWAY C-WATR-01.DWG





REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
2	CONNECT TO EXISTING WATER MAIN USING FLEX COUPLINGS. SIZE PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.

1 ADD ALT 1
REMOVE WATER MAIN IMPROVEMENTS & PAVING LAKE HAVASU AVENUE

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
2. CONNECTION DETAIL SHOWING INSTALLATION OF NEW WATERLINE AND PERTINENT REMOVALS MAY REQUIRE PHASING. CONTRACTOR SHALL CONSIDER WORK SEQUENCE BY MEANS AND METHODS.
3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED USING JOINT RESTRAINT TABLE.
4. RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS WHERE LENGTHS CAN FIT. RESTRAINT LENGTHS PER RESTRAINT TABLE ON SHEET 05.
5. CONTRACTOR SHALL POTHOLE AND TAKE ALL REASONABLE EFFORT AND ACTION TO SATISFY HIMSELF ON THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW MAIN. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ADJUSTMENTS REQUIRED TO CONNECT TO EXISTING MAINS SHOWN AT DIFFERENT ELEVATIONS THAN IN PLANS.
6. WATERLINE SHALL BE INSTALLED AT THE ELEVATIONS SHOWN ON THE PLANS WITH THE INTENT OF 3 FEET OF COVER. CONTRACTOR SHALL MAINTAIN 3-FOOT MINIMUM COVER UNLESS OTHERWISE NOTED IN PLANS.
7. CONTRACTOR SHALL PLACE FLOWABLE FILL PER DTL NO. 1 IN AREAS OF PUBLIC UTILITY MAIN CROSSINGS WHERE APPROPRIATE COMPACTION CANNOT BE MET.
8. CONTRACTOR TO POTHOLE ANY/ALL POINTS OF CONNECTION FOR ALIGNMENT AND GRADE. CONTRACTOR SHALL TRANSITION FROM POINT OF CONNECTION AT COPE SHOWN TO OBTAIN AND MAINTAIN COVER. DO NOT USE FITTINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. A MINIMUM OF 3-FEET OF COVER MUST BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE STATUTE. CONTRACTOR SHALL BEAR ALL COSTS OF FITTINGS NOT SHOWN IN PLANS REQUIRED TO MAKE GRADE.
9. WATERLINE DISINFECTION SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(L)(3).
10. WATERLINE HYDROSTATIC TESTING SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(C)(2).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2.5 5 10
VERTICAL

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LAKE HAVASU CITY

NO.	REVISIONS / SUBMISSIONS	DATE
1	BID ALTERNATE 1	10/29/2024
—	—	—
—	—	—
—	—	—

LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

WATER PLAN & PROFILE - LAKE HAVASU AVE STA 23+00 TO MESQUITE AVE

Registered Professional Engineer
CERTIFICATE NO. 59250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, U.S.A.

Sheet Number:
WT04
Sheet 23 OF 32

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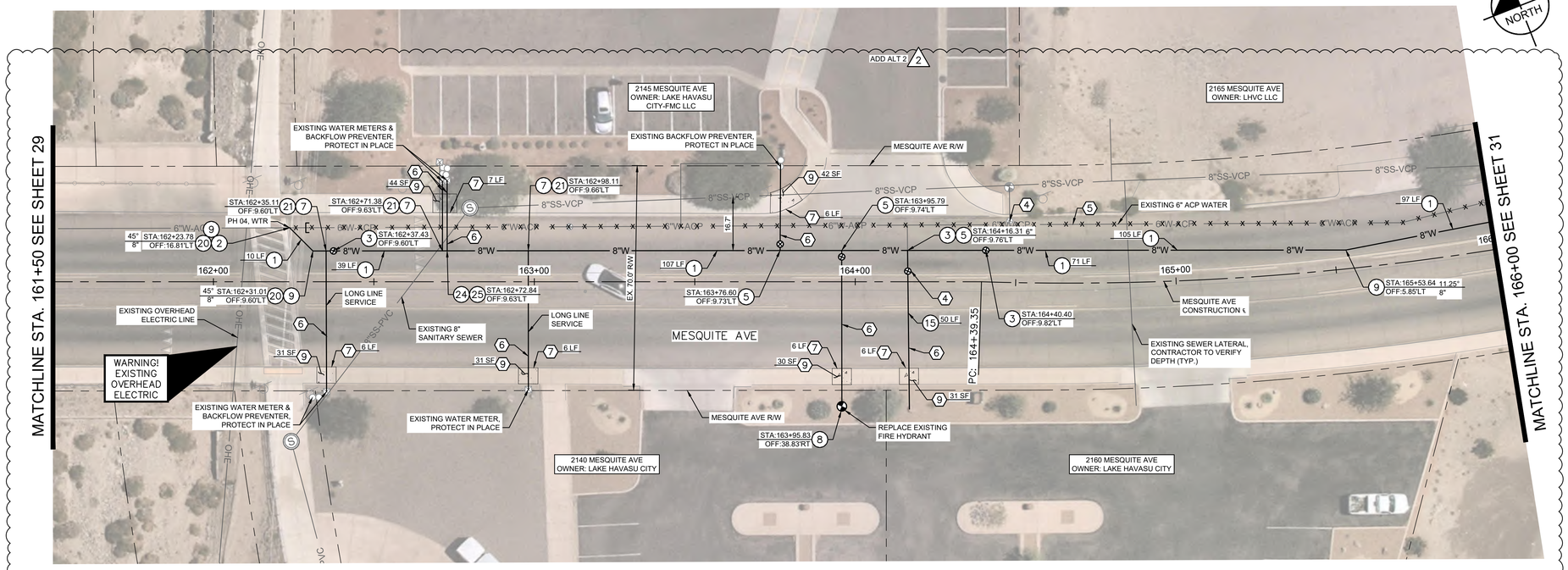

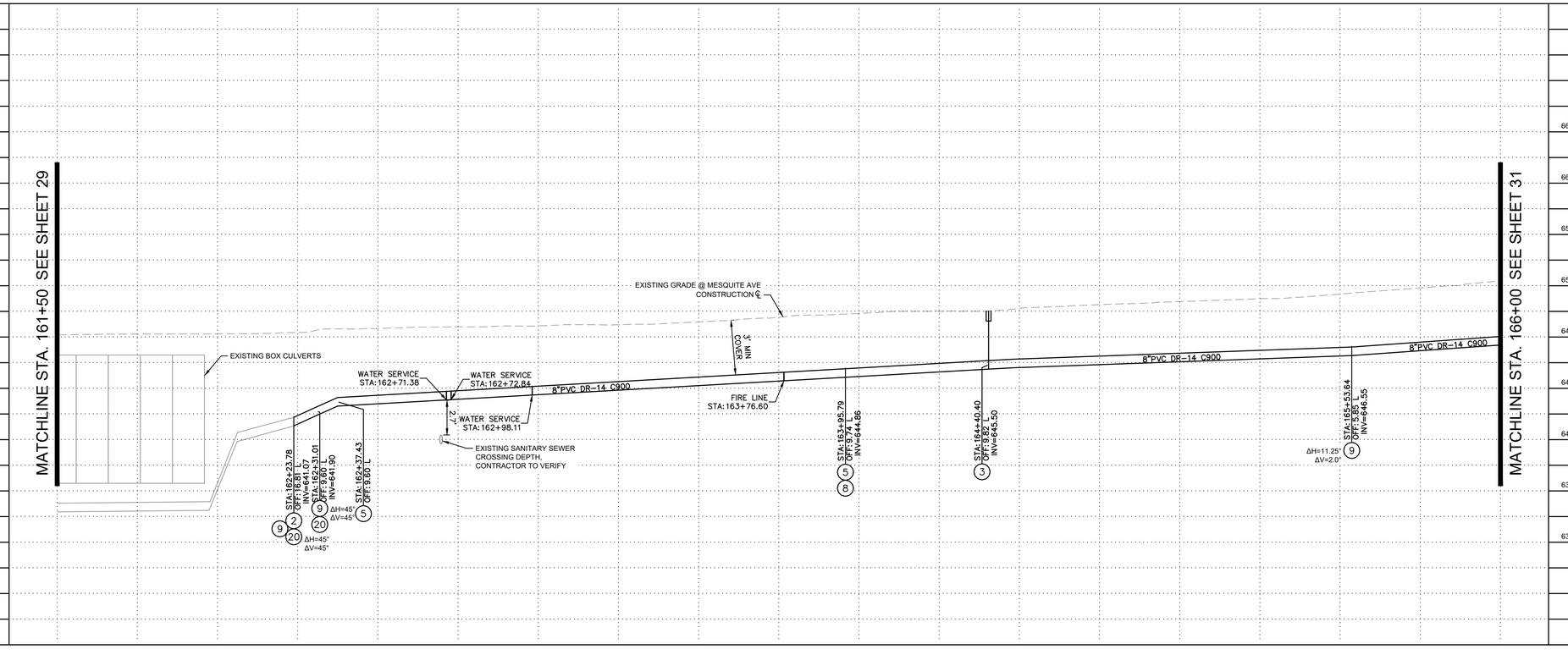

REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.
6	SAWCUT, REMOVE, AND REPLACE (6'-WIDE) EXISTING PAVEMENT IN KIND. UTILITY TRENCH PATCH PER LHC STD. DTL. 200
7	REMOVE AND REPLACE EXISTING CURB PER LHC STD. DTL. 213.
9	REMOVE AND REPLACE EXISTING SIDEWALK PER LHC STD. DTL. 216.

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
2	CONNECT TO EXISTING WATER MAIN USING FLEX COUPLINGS. SIZE PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
5	INSTALL 8"x6" DI TEE WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
7	INSTALL 1" SADDLE ASSEMBLY PER LHC STD. DTL. 303. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
8	INSTALL NEW HYDRANT ASSEMBLY PER LHC STD. DTL. 320.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
15	INSTALL 6" PVC C900 DR14 WATER PIPE PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
20	VERTICAL JOINT DEFLECTION, 1° MAXIMUM PER MANUFACTURER RECOMMENDATIONS.
21	INSTALL 1" SERVICE ASSEMBLY PER LHC STD. DTL. 301. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
24	INSTALL 2" SADDLE ASSEMBLY IPER LHC STD. DTL. 304. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
25	INSTALL 2" SERVICE ASSEMBLY PER LHC STD. DTL. 305. CONNECT TO EXISTING METER OR IRRIGATION VALVE.

2 ADD ALT 2
REMOVE WATER MAIN IMPROVEMENTS MESQUITE AVENUE, PIMA WASH TO ACOMA BLVD.

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
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HORIZONTAL
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VERTICAL

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LAKE HAVASU CITY

NO.	REVISIONS / SUBMISSIONS	DATE
2	BID ALTERNATE 2	10/29/2024

Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

WATER PLAN & PROFILE - MESQUITE AVE STA 161+50 TO 166+00

Registered Professional Engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, USA

Sheet Number:
WT11
Sheet 30 OF 32

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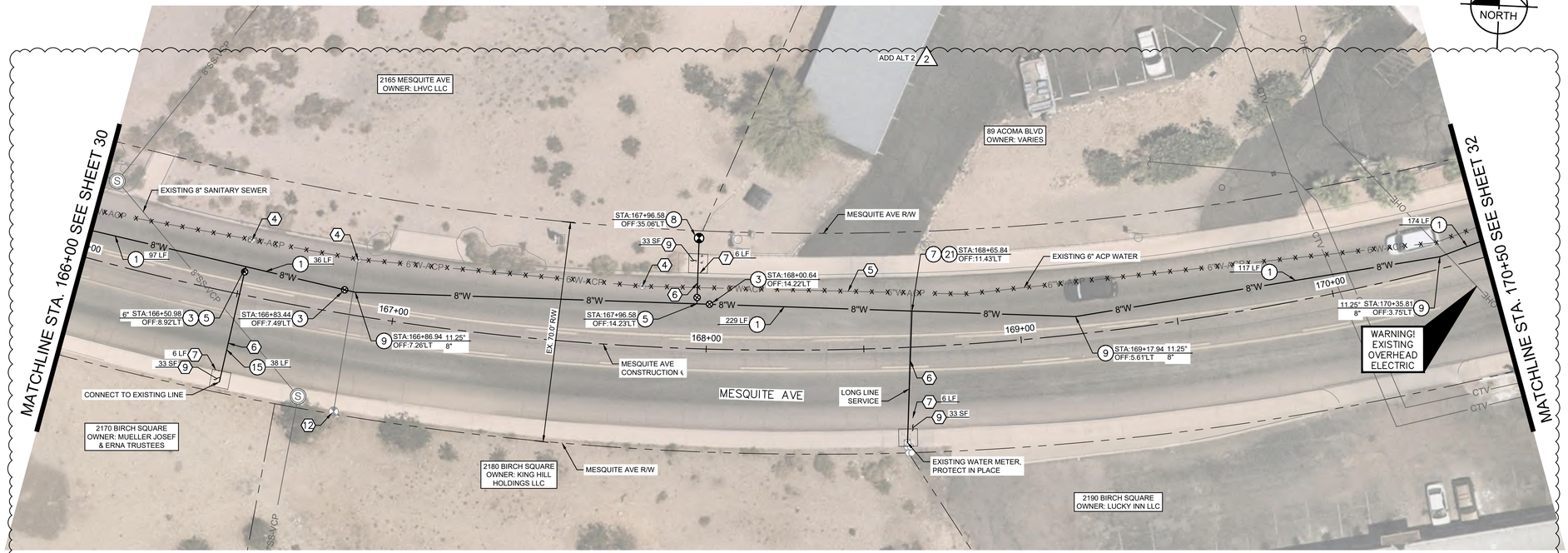

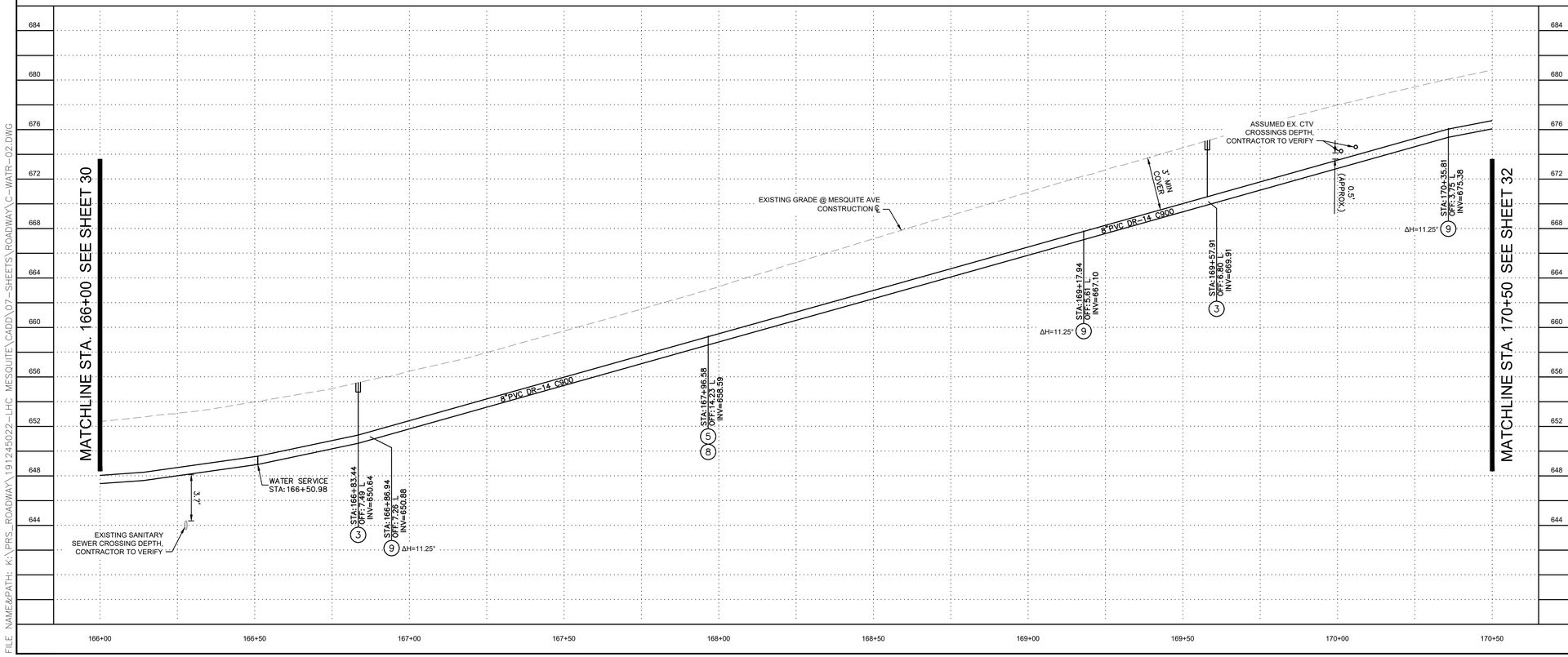

FILE NAME&PATH: K:\PRS_ROADWAY\191245022-LHC MESQUITE\CADD\07-SHEETS\ROADWAY\C-WATR-02.DWG

REMOVAL NOTES

NO	DESCRIPTION
4	REMOVE EXISTING GATE VALVE PER LHC TECH. SPEC. 02550.
5	ABANDON EXISTING WATER MAIN IN PLACE AND CAP ENDS PER LHC TECH. SPEC. 02550.
6	SAWCUT, REMOVE, AND REPLACE (6'-WIDE) EXISTING PAVEMENT IN KIND. UTILITY TRENCH PATCH PER LHC STD. DTL. 200
7	REMOVE AND REPLACE EXISTING CURB PER LHC STD. DTL. 213.
9	REMOVE AND REPLACE EXISTING SIDEWALK PER LHC STD. DTL. 216.
12	REMOVE AND DISPOSE EXISTING FIRE HYDRANT ASSEMBLY. ADD END CAP TO FIRE LATERAL.

WATER NOTES

NO	DESCRIPTION
1	INSTALL 8" PVC C900 DR14 WATER MAIN PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
3	INSTALL GATE VALVE WITH RISER PER LHC STD. DTL. 300. SIZE IS 8" UNLESS OTHERWISE NOTED.
5	INSTALL 8"x6" DI TEE WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
7	INSTALL 1" SADDLE ASSEMBLY PER LHC STD. DTL. 303. CONNECT TO EXISTING METER OR IRRIGATION VALVE.
8	INSTALL NEW HYDRANT ASSEMBLY PER LHC STD. DTL. 320.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
15	INSTALL 6" PVC C900 DR14 WATER PIPE PER LHC TECH. SPEC. 02550 AND UTILITY TRENCH PER LHC STD. DTL. 200. LENGTH PER PLAN.
21	INSTALL 1" SERVICE ASSEMBLY PER LHC STD. DTL. 301. CONNECT TO EXISTING METER OR IRRIGATION VALVE.

2 ADD ALT 2
REMOVE WATER MAIN IMPROVEMENTS MESQUITE AVENUE, PIMA WASH TO ACOMA BLVD.

SHEET NOTES

1. ACP SHALL BE REMOVED AT THE NEAREST JOINT PER SPECIFICATION SECTION 02050.
2. CONNECTION DETAIL SHOWING INSTALLATION OF NEW WATERLINE AND PERTINENT REMOVALS MAY REQUIRE PHASING. CONTRACTOR SHALL CONSIDER WORK SEQUENCE BY MEANS AND METHODS.
3. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT UNLESS OTHERWISE SPECIFIED USING JOINT RESTRAINT TABLE.
4. RESTRAINED JOINTS SHALL BE USED IN LIEU OF THRUST BLOCKS WHERE LENGTHS CAN FIT. RESTRAINT LENGTHS PER RESTRAINT TABLE ON SHEET 05.
5. CONTRACTOR SHALL POTHOLE AND TAKE ALL REASONABLE EFFORT AND ACTION TO SATISFY HIMSELF ON THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW MAIN. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ADJUSTMENTS REQUIRED TO CONNECT TO EXISTING MAINS SHOWN AT DIFFERENT ELEVATIONS THAN IN PLANS.
6. WATERLINE SHALL BE INSTALLED AT THE ELEVATIONS SHOWN ON THE PLANS WITH THE INTENT OF 3 FEET OF COVER. CONTRACTOR SHALL MAINTAIN 3-FOOT MINIMUM COVER UNLESS OTHERWISE NOTED IN PLANS.
7. CONTRACTOR SHALL PLACE FLOWABLE FILL PER DTL NO. 1 IN AREAS OF PUBLIC UTILITY MAIN CROSSINGS WHERE APPROPRIATE COMPACTION CANNOT BE MET.
8. CONTRACTOR TO POTHOLE ANY/ALL POINTS OF CONNECTION FOR ALIGNMENT AND GRADE. CONTRACTOR SHALL TRANSITION FROM POINT OF CONNECTION AT SLOPE SHOWN TO OBTAIN AND MAINTAIN COVER. DO NOT USE FITTINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. A MINIMUM OF 3-FEET OF COVER MUST BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE STATUTE. CONTRACTOR SHALL BEAR ALL COSTS OF FITTINGS NOT SHOWN IN PLANS REQUIRED TO MAKE GRADE.
9. WATERLINE DISINFECTION SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(L)(3).
10. WATERLINE HYDROSTATIC TESTING SHALL BE PER ENGINEERING BULLETIN 10, CHAPTER 7(C)(2).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 2.5 5 10
VERTICAL

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PHONE: 928-458-7121 | WWW.KIMLEY-HORN.COM

LAKE HAVASU CITY

NO.	REVISIONS / SUBMISSIONS	DATE
2	BID ALTERNATE 2	10/29/2024

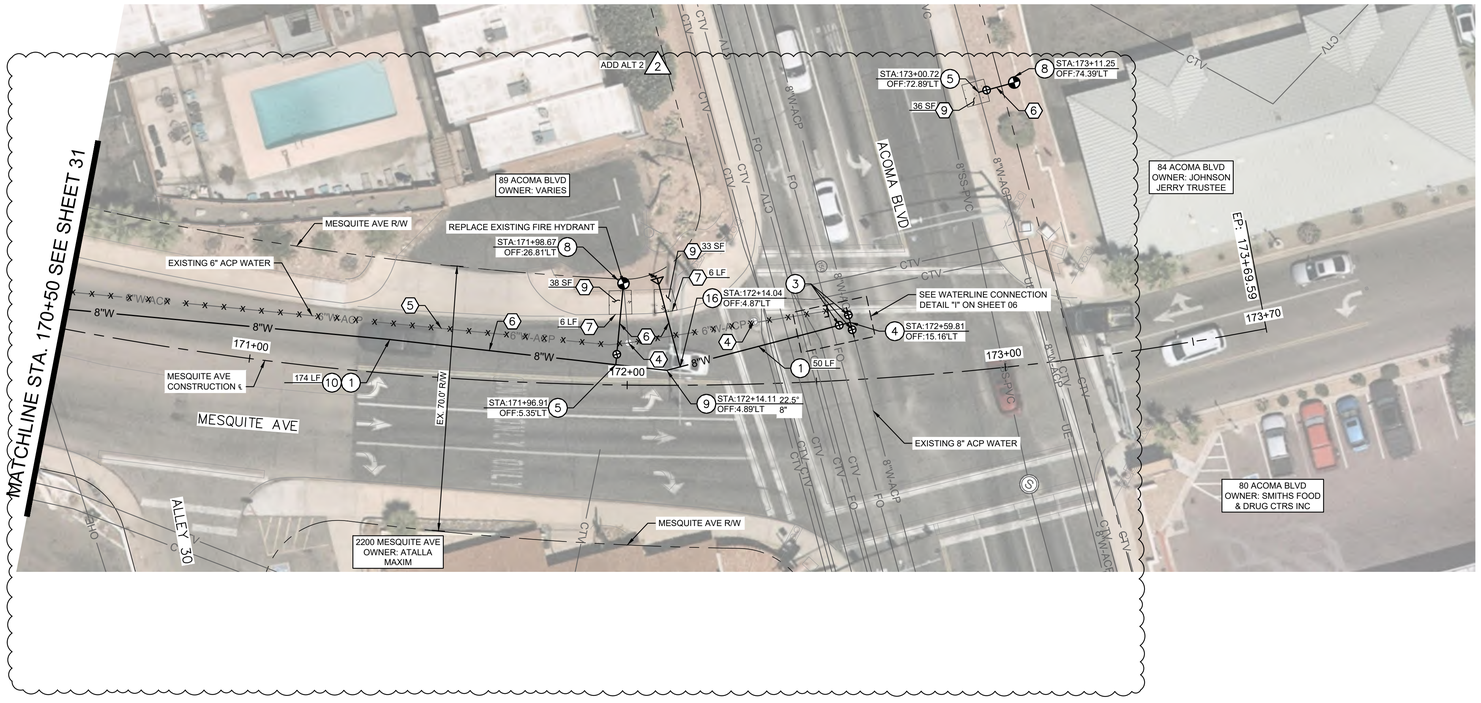
LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

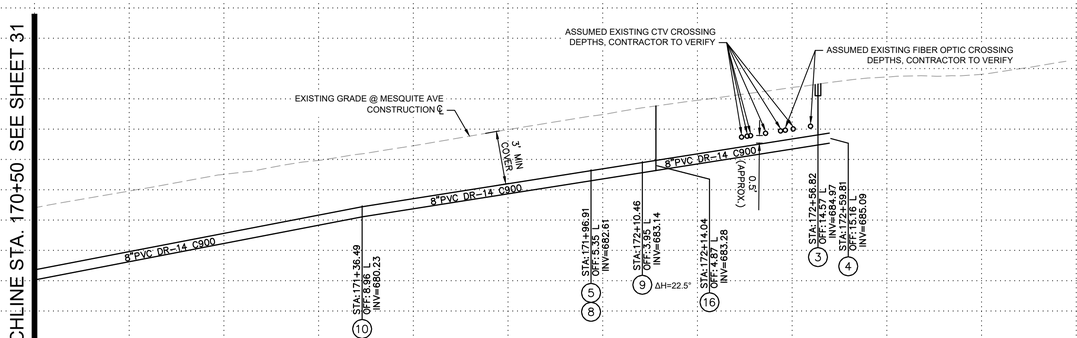
Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

WATER PLAN & PROFILE - MESQUITE AVE STA 166+00 TO 170+50

Registered Professional Engineer
CERTIFICATE NO. 59250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, U.S.A.

Sheet Number:
WT12
Sheet 31 OF 32





REMOVAL NOTES

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5	INSTALL 8"x6" DI TEE WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550.
8	INSTALL NEW HYDRANT ASSEMBLY PER LHC STD. DTL. 320.
9	INSTALL DI BEND WITH RESTRAINED JOINT PER LHC TECH. SPEC. 02550. SIZE AND ANGLE PER PLAN.
10	HORIZONTAL JOINT DEFLECTION, 1° MAXIMUM PER MANUFACTURER RECOMMENDATIONS.
16	INSTALL 2" COMBINATION AIR/VACUUM VALVE AND 2" BLOW-OFF PER LHC. STD. DTL. 311.

2 ADD ALT 2
REMOVE WATER MAIN IMPROVEMENTS MESQUITE AVENUE, PIMA WASH TO ACOMA BLVD.

SHEET NOTES

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NO.	REVISIONS / SUBMISSIONS	DATE
2	BID ALTERNATE 2	10/29/2024
	-	-
	-	-
	-	-

LAKE HAVASU CITY
LAKE HAVASU AVENUE & MESQUITE AVENUE PAVING REHABILITATION

WATER PLAN & PROFILE - MESQUITE AVE STA 170+50 TO ACOMA BLVD

Designed by: ALH
Drawn by: EKH
Checked by: JRW
Date: 10/29/24
Dwg scale: 1"=20'

Registered Professional Engineer (Civil)
CERTIFICATE NO. 59250
JAMES R. WARNE
10/29/24
Date Signed
ARIZONA, U.S.A.

Sheet Number:
WT13
Sheet 32 OF 32

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