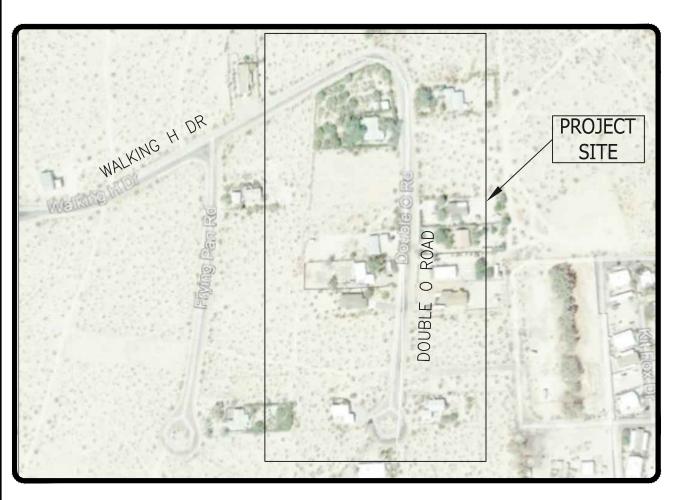
REGIONAL MAP NOT TO SCALE LAS VEGAS JOSHUA TREE 1 MONUMENT , ARIZONA ANZA-BORREGO WESTMORLAND \ DESERT HEBER CALEXICO

VICINITY MAP NOT TO SCALE



BENDING ELBOW, WEATHER VANE, ROCKING CHAIR DRIVE, WALKING H AND DOUBLE O WATER PIPELINES

FEBRUARY 2021

BORREGO WATER DISTRICT

PROJECT INFORMATION

OWNER **BORREGO WATER DISTRICT** 806 PALM CANYON DRIVE **BORREGO SPRINGS. CA 92004** TEL. 760-767-5806

ENGINEER DAVID DALE, PE DISTRICT ENGINEER BORREGO WATER DISTRICT

TEL. (760) 767-5806

AGENCY CONTACTS

FIRE PROTECTION DISTRICT 2324 STIRRUP RD BORREGO SPRINGS, CA 92004 PHONE: 760-767-5436

SAN DIEGO COUNTY SHERIFF **BORREGO SPRINGS OFFICE 571 PALM CANYON DRIVE** BORREGO SPRINGS, CA. 92004 PHONE: 760-767-5656

CONTROL BOARD DIVISION OF DRINKING WATER FIELD OPERATIONS BRANCH, SAN DIEGO 1350 FRONT STREET, SUITE 2050 SAN DIEGO, CA 92101

STATE WATER RESOURCES

PHONE: 619-525-4383 EMAIL: William.DiBiase@waterboards.ca.gov

<u>SDG&E</u> PHONE: 800-655-4555

SHEET INDEX

TITLE SHEET, VICINITY MAP AND GENERAL NOTES

WATER IMPROVEMENT PLANS - ROCKING CHAIR DR STA 0+00 TO 4+50 WATER IMPROVEMENT PLANS - ROCKING CHAIR DR. STA 4+50 TO 8+74

BENDING ELBOW DR. STA 8+74 TO 11+00 WATER IMPROVEMENT PLANS - BENDING ELBOW DR. STA 11+00 TO 20+00 WATER IMPROVEMENT PLANS - BENDING ELBOW DR. STA 20+00 TO 26+00

WATER IMPROVEMENT PLANS - WEATHER VANE DR. STA 26+00 TO 33+06

WATER IMPROVEMENT PLANS - WALKING H STA 0+00 TO 8+25 WATER IMPROVEMENT PLANS - DOUBLE O STA 8+25 TO 18+00

DETAILS 10. DETAILS

PROJECT DESCRIPTION

THE WORK SHALL INCLUDE THE PROCUREMENT OF MATERIALS AND THE INSTALLATION OF A NEW 8-INCH DIAMETER WATER MAIN PIPELINE ALONG BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE. THE WORK ALSO INCLUDES THE INSTALLATION OF A NEW 6-INCH WATER MAIN PIPELINE ALONG WALKING H AND DOUBLE O, THE TIE-IN TO THE EXISTING 8 INCH WATER LINES ALONG COUNTRY CLUB ROAD AND THE INSTALLATION OF NEW AND REPLACEMENT OF OLD FIRE HYDRANTS. VALVES AND LATERALS.

BORREGO WATER DISTRICT GENERAL NOTES

1. WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST CURRENT EDITION OF THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION. CONTRACTOR SHALL HAVE A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

AT&T

PHONE: 858-422-4133

- 2. THE SUBMISSION AND REVIEW OF ALL SUBMITTALS AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRECONSTRUCTION MEETING WITH THE DISTRICT INSPECTOR.
- 3. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WITH SAN DIEGO COUNTY.
- 4. NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF THE DISTRICT INSPECTOR. INSPECTOR'S SCHEDULING MUST BE 24-48 HOURS IN ADVANCE OF WORK.
- 5. WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 36-INCHES MINIMUM BELOW CENTERLINE OF FINISH GRADE OF STREET.
- 6. CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO
- 7. ALL EXISTING FACILITIES, WHICH MAY AFFECT FINAL DESIGN, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED. ALL EXISTING OR PROPOSED UTILITY CROSSINGS, OR UTILITIES WITHIN 10-FEET OF PROPOSED WATER MAINS, SHALL BE SHOWN ON IMPROVEMENT PLANS.
- 8. THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPES, VALVES (CLOSED) AND APPURTENANCES.
- MAXIMUM DEFLECTION PER COUPLING (2-INCH PER JOINT). NO BENDING (CURVING) OF PIPE SHALL BE

10. STANDARDS - STANDARD TO BE USED SHALL MEAN THOSE STANDARDS OF THE AMERICAN WATER

9. ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4-INCH

WORKS ASSOCIATION LATEST REVISION. SAID STANDARDS ARE AVAILABLE FROM THE BOOKSTORE OF SAID ASSOCIATION, 6666 W. QUINCY AVE. DENVER, CO. 80235, (800) 926-7337. 11. MATERIALS OF CONSTRUCTION - ALL WATER PIPE, FITTINGS AND APPURTENANCES CALLED FOR IN THESE

CONTRACT DOCUMENTS SHALL CONFORM TO THE FOLLOWING STANDARDS, THOSE OTHER STANDARDS

- THEREIN REFERENCED AND THESE SPECIAL PROVISIONS. 12. PIPE: AWWA C-900 AND C-905. PIPE SHALL BE 235 PSI, DR18. ALL PIPES SHALL HAVE BELL AND SPIGOT,
- 13. FITTINGS: AWWA C-153 AND C-104. FITTINGS SHALL BE CEMENT-MORTAR LINED. UNLESS OTHERWISE SHOWN OR INDICATED BY THE CONTRACT DRAWINGS. BENDS SHALL BE FURNISHED WITH MECHANICAL JOINT ENDS; TEES AND CROSSES SHALL BE FURNISHED WITH FLANGED JOINT ENDS. FLANGE TO MECHANICAL JOINT ADAPTERS SHALL BE FURNISHED TO CONNECT PIPE TO TEES AND CROSSES WHERE VALVES DO NOT OCCUR. GLANDS SHALL BE OF THE SAME MANUFACTURER AS FITTINGS.

ELASTOMERIC GASKETED JOINTS. PIPE SHALL BE SUPPLIED WITH AN AFFIDAVIT OF COMPLIANCE.

- 14. PIPELINE CONSTRUCTION ALL WATER PIPE, FITTINGS AND APPURTENANCES CALLED FOR SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE FOLLOWING REFERENCED STANDARDS, THOSE OTHER STANDARDS THEREIN REFERENCED, THE WRITTEN RECOMMENDATIONS OF THE MANUFACTURER AND THESE SPECIAL PROVISIONS.
- A. INSTALLATION: AWWA C-600 AND C-605. EXCESS EARTH FROM EXCAVATION SHALL BE REMOVED FROM THE ROADWAY SECTION AND DISPOSED OF. A TRACING WIRE AND APPROPRIATE UTILITY WARNING IDENTIFICATION TAPE SHALL BE PLACED IMMEDIATELY ABOVE THE PIPE ZONE BACKFILL. THE TEST PRESSURE FOR THE PIPE STRENGTH AND LEAKAGE SHALL BE NO LESS THAN 150 PSI. IN ALL EASEMENTS, FLEXIBLE HIGH VISIBILITY IDENTIFICATION MARKERS ARE ADDITIONALLY REQUIRED.

BOARD OF DIRECTORS

KATHY DICE **PRESIDENT**

DAVE DUNCAN

LYLE BRECHT VICE PRESIDENT

DIANE JOHNSON **BOARD MEMBER**

RAY DELAHAY **BOARD MEMBER**

PARTICIPATING CITY STAFF

GEOFF POOLE GENERAL MANAGER **ALAN ASCHE**

OPERATIONS MANAGER

SECRETARY/TRESURER

NOTE TO CONTRACTOR

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. N CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN

ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES. CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

ANY REFERENCES TO SPECIFIC MANUFACTURERS OR MODELS ARE FOR DESCRIPTIVE PURPOSES ONLY. CONTRACTORS ARE ALLOWED TO PROVIDE APPROVED EQUAL MATERIALS OR PRODUCTS SUBJECT TO ENGINEER'S

CONTRACTOR TO POSSES A VALID CLASS A (GENERAL ENGINEERING) CONTRACTOR'S LICENSE IN THE STATE OF CALIFORNIA FOR ALL WORK SHOWN ON THESE PLANS.

> NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE. Underground Service Alert

REVISIONS: APPROVED

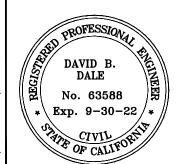
UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

APPROVED FOR CONSTRUCTION BY:

DATE

R.C.E. NO

REG. EXP.



PREPARED	UNDER	THE	DIRECT	SUPERVISION	OF:	
				67	588	

R.C.E. NO. 06/30/22

PROJECT TITLE: SCALF: NTS BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT

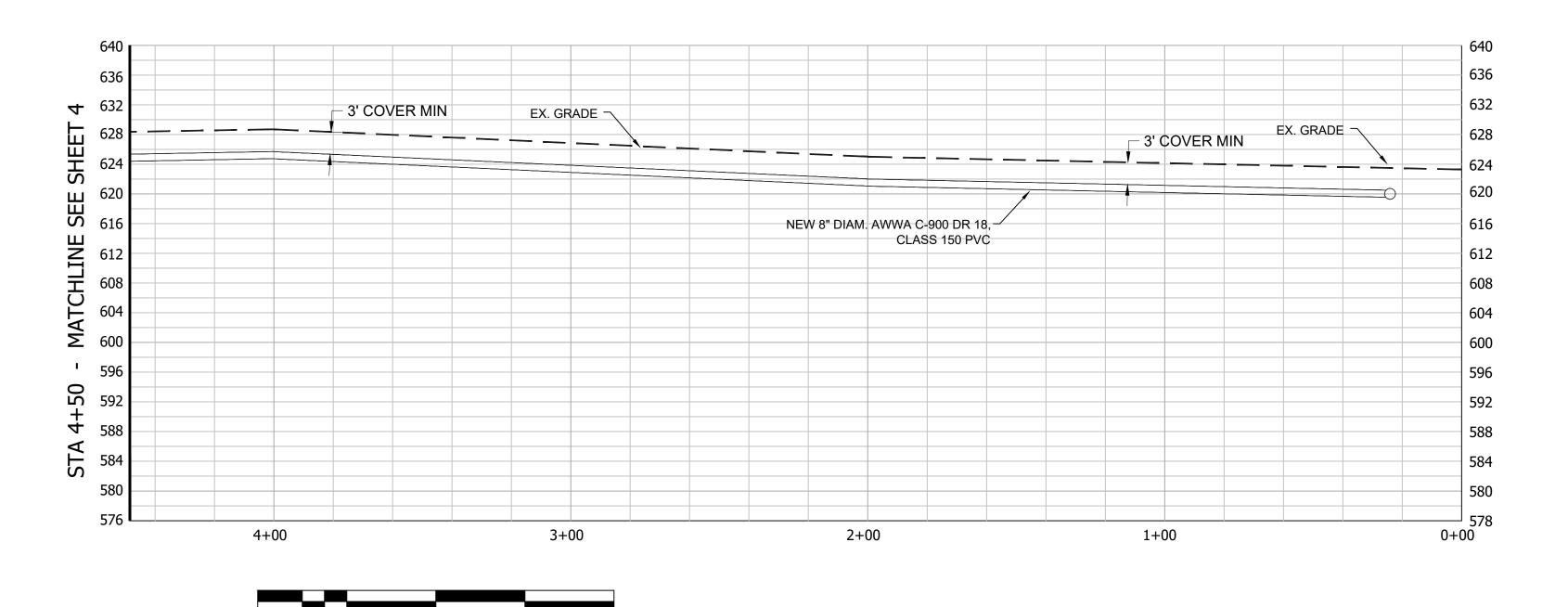
DAVID B. DALE, PE

TITLE SHEET, VICINITY MAP AND GENERAL NOTES

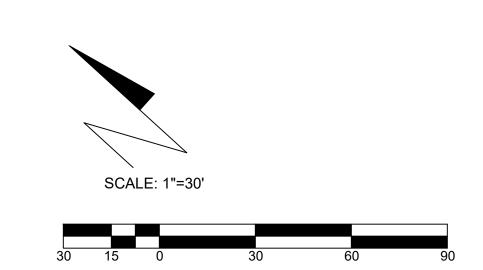
SHEET OF $\underline{10}$ SHEET

TWO WORKING DAYS BEFORE YOU DIG.

JOB NO.







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DEMOLITION KEYNOTES:

ILLUSTRATED ON THE PROFILE DRAWING.

- DEMOLITION KEYNOTES:

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UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.

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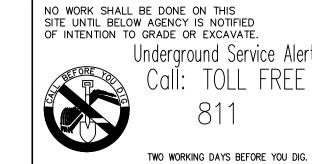
CONSTRUCTION KEYNOTES:

"WV-02" ON SHEET 9.

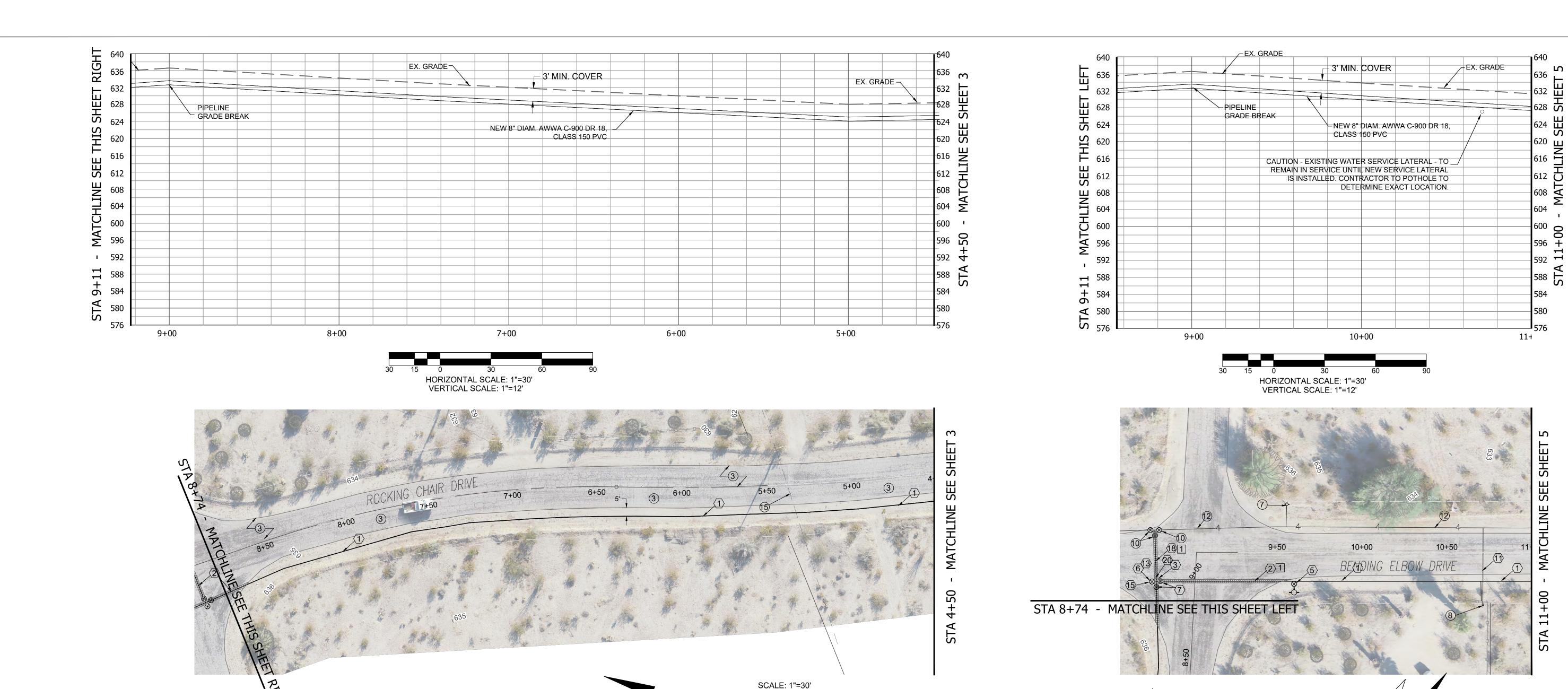
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- (3) INSTALL FLANGE x FLANGE 8" x 6" DUCTILE IRON REDUCER FITTING.
- (14) INSTALL FLANGE x MJ 6" x 4" DUCTILE IRON REDUCER FITTING.
- (5) INSTALL 6-INCH DUCTILE IRON BLIND FLANGE AND PCC THRUST BLOCK.
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- CONNECT NEW 6-INCH PVC PIPE TO EXISTING 2-INCH SERVICE PIPE WITH A 2-INCH STAINLESS STEEL SADDLE, USE 2-INCH SCH. 40 PVC PIPE AND FITTINGS.
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NC	. REVISIONS:	APPROVED	DATE	APPROVED FOR CONSTRUCTION BY:	O PROFESSIONAL	PREPARED UNDER THE DIRECT SUPERVISION OF:		SCALE: 1" = 30'	SHEET
					DAVID B. DALE		BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE		2
					No. 63588 * Exp. 9-30-20	DAVID B. DALE, PE 69,121 R.C.E. NO.	WATER IMPROVEMENTS PROJECT		OF <u>10</u> SHEET
fo		l changes t	responsible o the plans	DATE REG. E	O'THING OF CALIFORNIA	DATE 06/30/20 REG. EXP.	SHEET CONTENT: WATER IMPROVEMENT PLANS ROCKING CHAIR DRIVE STA 0+00 TO STA 4+50		JOB NO.



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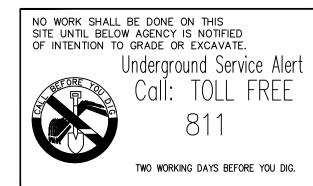
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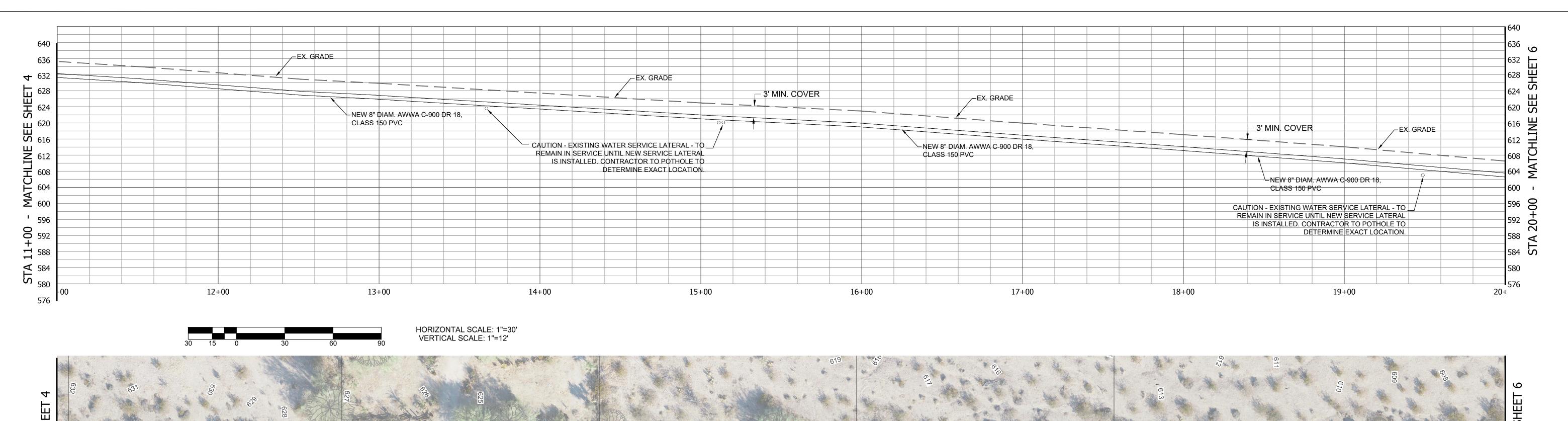
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- (14) INSTALL FLANGE x MJ 6" x 4" DUCTILE IRON REDUCER FITTING.
- 15 INSTALL 6-INCH DUCTILE IRON BLIND FLANGE AND PCC THRUST BLOCK.
- INSTALL NEW 6-INCH X 6-INCH X 6-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON TEE WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- (17) CONNECT NEW 6-INCH PVC PIPE TO EXISTING 2-INCH SERVICE PIPE WITH A 2-INCH STAINLESS STEEL SADDLE, USE 2-INCH SCH. 40 PVC PIPE AND FITTINGS.
- INSTALL NEW 6-INCH DIAMETER AWWA C-900 DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN PAVED AREAS PER TRENCH DETAIL "G-24A AND G-24B" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- INSTALL NEW 8-INCH X 8-INCH X 6-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON TEE WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- INSTALL FLANGE X MJ 8" X 6" DUCTILE IRON REDUCER FITTING.



NC	REVISIONS:	APPROVED	DATE	APPROVED FOR CONSTRUCTION BY:		OFFGGY	PREPARED UNDER THE DIRECT SUPE	ERVISION OF:	PROJECT TITLE:	SCALE: 1" = 30'	SHEET
						DAVID B. DALE		69,121	BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT	·	
fo	AUTHORIZED CHANGES & USES: The engineer preparing these plans or liable for, unauthorized changes to or uses of these plans. Alst be in writing and must be approved by the preparer of these pl	ll changes t		DATE R.C.E. NO	R.C.E. NO.	No. 63588	DAVID B. DALE, PE DATE	R.C.E. NO 06/30/20 REG. EXP.			OF <u>10</u> SHEET JOB NO.



SCALE 11-00

SCALE 11-00

SCALE 11-00

EXISTING FACILITY KEYNOTES

- (1) EXISTING TREE TO REMAIN.
- (2) EXISTING POWER/TELEPHONE POLE TO REMAIN.
- (3) EXISTING POWER/TELEPHONE POLE TO SEMAIN.
- (4) EXISTING SIGN TO REMAIN.
- (5) EXISTING DRIVEWAY TO REMAIN.
- (6) EXISTING FENCE TO REMAIN.
- (7) EXISTING FIRE HYDRANT TO ABANDONED WHEN NEW LINE IS IN SERVICE. (PROTECT IN PLACE UNTIL NEW FIRE HYDRANT IS IN OPERATION). DISTRICT TO REMOVE.
- 8 EXISTING WATER METER TO REMAIN.
- 9 EXISTING GUY WIRE TO REMAIN.
- (10) EXISTING 6-INCH WATER VALVE TO REMAIN.
- (11) EXISTING WATER LINE TO REMAIN.
- (12) EXISTING WATER LINE TO BE CAPPED AND ABANDONED IN PLACE BY CONTRACTOR AFTER NEW PIPELINE IS IN SERVICE.
- (13) CAUTION EXISTING AT&T UNDERGROUND PIPELINE TO REMAIN.
- (14) EXISTING UTILITY BOX TO REMAIN.
- (15) CAUTION EXISTING OVERHEAD ELECTRICAL LINES.
- (16) EXISTING BUILDING TO REMAIN.
- (17) EXISTING EDGE OF PAVEMENT TO REMAIN.
- 18 EXISTING 2-INCH WATER VALVE TO REMAIN.

DEMOLITION KEYNOTES:

- 1 SAWCUT OR GRIND OUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT. REMOVE AND DISPOSE OF THE EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
- 2 SAWCUT THE EXISTING ASPHALT DRIVEWAY FOR THE FULL DEPTH OF THE ASPHALT. REMOVE AND DISPOSE OF THE EXISTING ASPHALT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.

NOTE:

- 1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER LINE SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
- 2. IT WILL BE REQUIRED TO POT-HOLE THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE POT-HOLING ACTIVITIES WITH THE UTILITY COMPANIES AND ENGINEER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 6-INCH WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLE, WATER, GAS, ELECTRICAL, COMMUNICATION, AND IRRIGATION UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPANSE OF BUILDINGS FOR TO THE EXCAVATION OF THE NEW TIME.
- WATER PIPELINE. THE CONSTRUCTION MANAGER/INSPECTOR WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER/INSPECTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE WATER PIPELINE GRADE AS ILLUSTRATED ON THE PROFILE DRAWING.

 3. THE CONSTRUCTION MANAGER/INSPECTOR SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE
- ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.

 4. THERE IS AN EXISTING EARTHEN BERM WHERE THE NEW PIPELINE WILL BE INSTALLED AT MULTIPLE LOCATIONS.

CONTRACTOR TO RECONSTRUCT EARTHEN BERM AFTER THE INSTALLATION OF THE WATER MAIN PIPELINE.

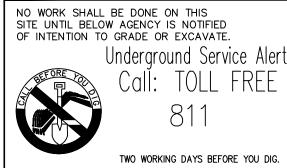
CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY

CONSTRUCTION KEYNOTES:

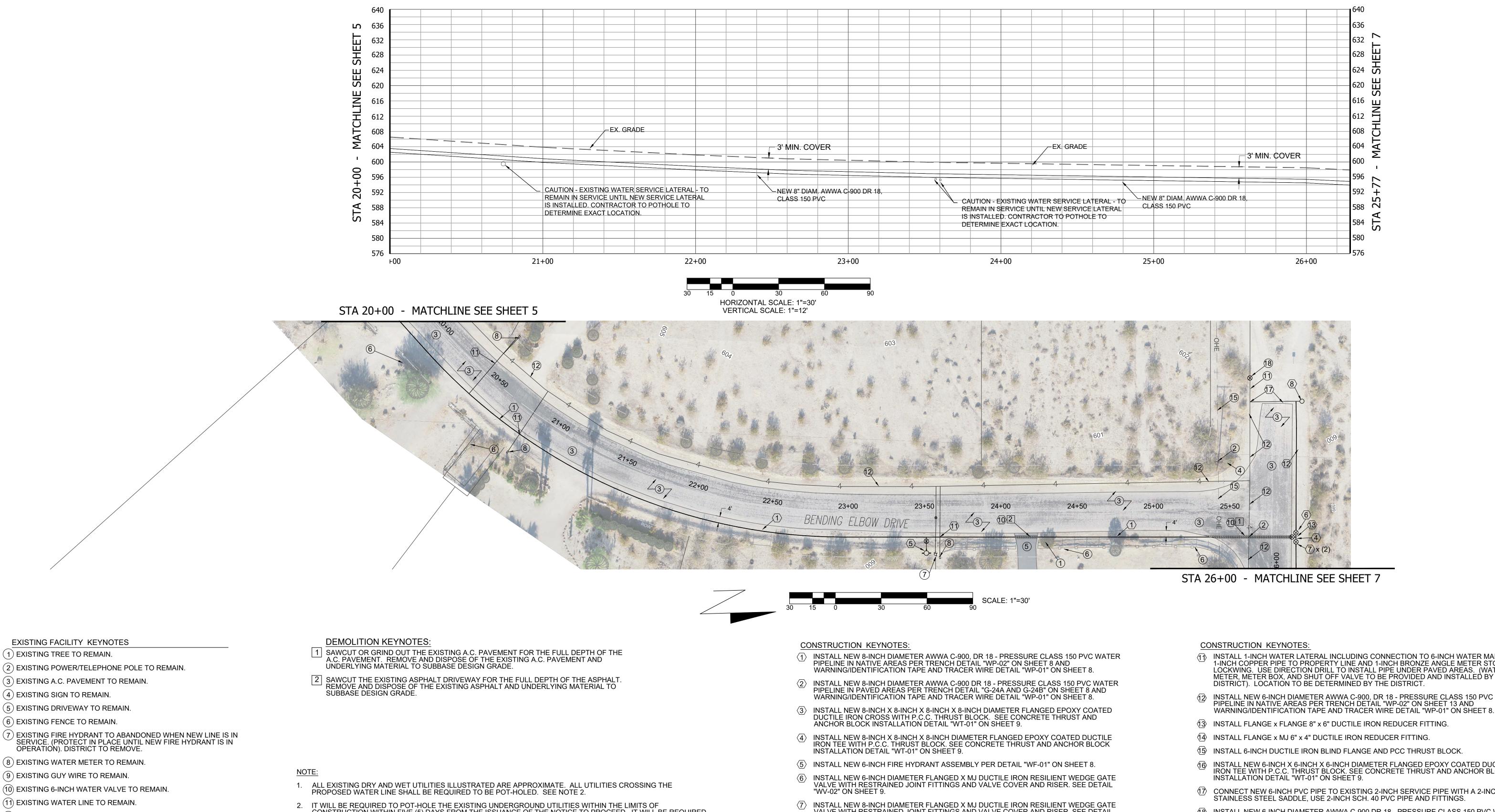
- INSTALL NEW 8-INCH DIAMETER AWWA C-900, DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN NATIVE AREAS PER TRENCH DETAIL "WP-02" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (2) INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN PAVED AREAS PER TRENCH DETAIL "G-24A AND G-24B" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (3) INSTALL NEW 8-INCH X 8-INCH X 8-INCH X 8-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON CROSS WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- (4) INSTALL NEW 8-INCH X 8-INCH X 8-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON TEE WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- (5) INSTALL NEW 6-INCH FIRE HYDRANT ASSEMBLY PER DETAIL "WF-01" ON SHEET 8.
- (6) INSTALL NEW 6-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL "WV-02" ON SHEET 9.
- (7) INSTALL NEW 8-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL "WV-02" ON SHEET 9
- (8) INSTALL 2-INCH BLOW-OFF ASSEMBLY, 6-INCH BLIND FLANGE, THRUST BLOCK. SEE DETAIL ON SHEET 9.
- (9) INSTALL NEW 4-INCH DIAMETER EPOXY COATED DUCTILE IRON TRANSITION COUPLING ADAPTER WITH STAINLESS STEEL HARDWARE.
- INSTALL NEW 4-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER

CONSTRUCTION KEYNOTES:

- INSTALL 1-INCH WATER LATERAL INCLUDING CONNECTION TO 6-INCH WATER MAIN, 1-INCH COPPER PIPE TO PROPERTY LINE AND 1-INCH BRONZE ANGLE METER STOP WITH LOCKWING. USE DIRECTION DRILL TO INSTALL PIPE UNDER PAVED AREAS. (WATER METER, METER BOX, AND SHUT OFF VALVE TO BE PROVIDED AND INSTALLED BY THE DISTRICT). LOCATION TO BE DETERMINED BY THE DISTRICT.
- INSTALL NEW 6-INCH DIAMETER AWWA C-900, DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN NATIVE AREAS PER TRENCH DETAIL "WP-02" ON SHEET 13 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (13) INSTALL FLANGE x FLANGE 8" x 6" DUCTILE IRON REDUCER FITTING.
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- (17) CONNECT NEW 6-INCH PVC PIPE TO EXISTING 2-INCH SERVICE PIPE WITH A 2-INCH STAINLESS STEEL SADDLE, USE 2-INCH SCH. 40 PVC PIPE AND FITTINGS.
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				DAVID B. DALE DAVID B. DALE DAVID B. DALE		BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT		
UNAUTHORIZED CHANGES & USES: The engin for, or liable for, unauthorized changes to or must be in writing and must be approved by	or uses of these plans. All changes to the plans	DATE	R.C.E. NO. REG. EXP.	* Exp. 9-30-20 * OF CALIFORNIA	DAVID B. DALE, PE R.C.E. N 06/30/2 DATE REG. EXP			OF <u>10</u> SHEE JOB NO.



CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE POT-HOLING ACTIVITIES WITH THE UTILITY COMPANIES AND ENGINEER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 6-INCH WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLE, WATER, GAS, ELECTRICAL, COMMUNICATION, AND IRRIGATION UTILITIES. IT

(12) EXISTING WATER LINE TO BE CAPPED AND ABANDONED IN

(15) CAUTION - EXISTING OVERHEAD ELECTRICAL LINES.

(14) EXISTING UTILITY BOX TO REMAIN.

(16) EXISTING BUILDING TO REMAIN.

(17) EXISTING EDGE OF PAVEMENT TO REMAIN

(18) EXISTING 2-INCH WATER VALVE TO REMAIN.

 $^{\prime}$ PLACE BY CONTRACTOR AFTER NEW PIPELINE IS IN SERVICE.

(13) CAUTION - EXISTING AT&T UNDERGROUND PIPELINE TO REMAIN.

WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 6-INCH WATER PIPELINE. THE CONSTRUCTION MANAGER/INSPECTOR WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER/INSPECTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE WATER PIPELINE GRADE AS ILLUSTRATED ON THE PROFILE DRAWING.

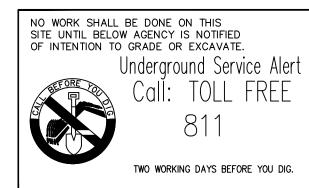
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- 7 INSTALL NEW 8-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL
- (8) INSTALL 2-INCH BLOW-OFF ASSEMBLY, 6-INCH BLIND FLANGE, THRUST BLOCK. SEE DETAIL ON SHEET 9.
- (9) INSTALL NEW 4-INCH DIAMETER EPOXY COATED DUCTILE IRON TRANSITION COUPLING ADAPTER WITH STAINLESS STEEL HARDWARE.
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- 20 INSTALL FLANGE X MJ 8" X 6" DUCTILE IRON REDUCER FITTING.



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			PROFESSIONAL DAVID B. DALE	69,121	BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT		
LINALITHODIZED CHANCES & USES. The engineer proparing these plane	will not be recognible	R.C.E. NO.	No. 63588	DAVID B. DALE, PE R.C.E. NO	SHEET CONTENT:		OF 10 SHEET
UNAUTHORIZED CHANGES & USES: The engineer preparing these plans for, or liable for, unauthorized changes to or uses of these plans. A must be in writing and must be approved by the preparer of these p	ll changes to the plans	DATE REG. EXP.	STE OF CALIFORN	$ \begin{array}{c} $	WATER IMPROVEMENT PLANS BENDING ELBOW DRIVE STA 20+00 TO STA 26+00		JOB NO.