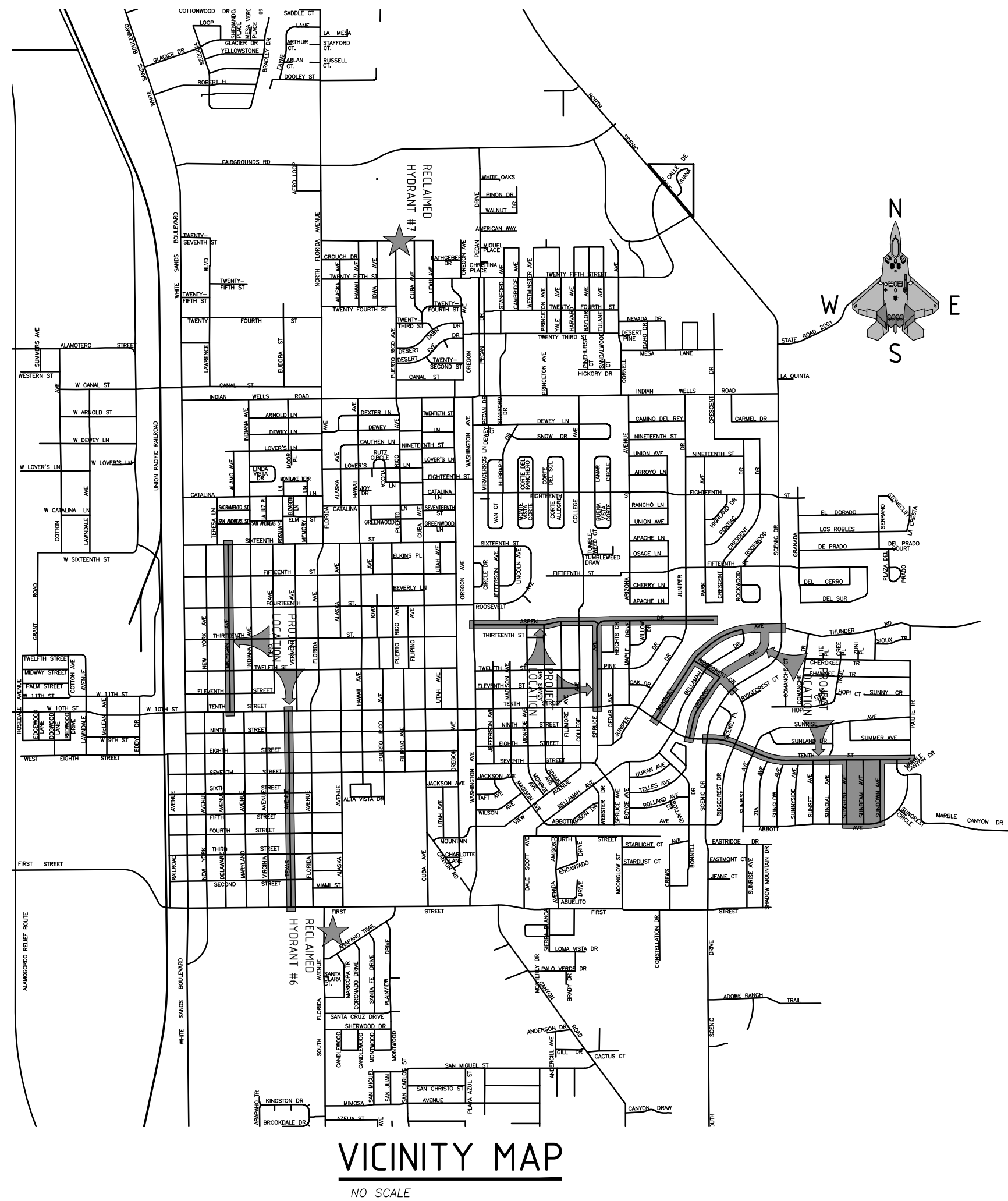


ENGINEERING DEPARTMENT



Sheet Legend

- Sht 1 - Cover Sheet with Vicinity Map
- G - General Sheets
- Q - Summary of Quantities
- SR - Survey Sheet and Control Points
- R - Removal Plan Sheets
- RC - Roadway Construction Plans
- GD - Grading and Drainage Plans
- ST - Pavement Marking Plans and Details
- TS - Traffic Signing Plans and Details
- U - Utility Plans and Details
- D - Miscellaneous Detail Plan Sheets
- NMDOT - New Mexico Department of Transportation Standard Drawings

City Commissioners

- Richard A. Boss, Mayor at Large
- Alfonso "Al" Hernandez, Mayor Pro-Tem
- Jason Baldwin
- Nadia Sikes
- Susan L. Payne
- Jenny Turnbull
- Erica M. Martin

2017 IMPROVEMENT PLANS FOR Street Maintenance Program FY 2017

AGENCY	PLAN REVIEW BY	DATE	PLAN REVIEW BY	DATE	REVISIONS NUMBER	REVISIONS DESCRIPTION	DATE
POWER NEW MEXICO							
NEW MEXICO GAS COMPANY							
CENTURY LINK							
BAJA CABLE							
TULAROSA BASIN TELEPHONE COMPANY							
OTERO COUNTY ELECTRIC COOPERATIVE							

506 S MAIN ST. SUITE 600
LAS CRUCES, NEW MEXICO 88005
(575) 524-2007 (OFFICE)

ENGINEERING DEPT.

COVER SHEET

Public Works Bid No.: **2017-010**

Engineering No.: **EN1701**

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G2.0	Sheet Index
G2.1	General Notes and Utility Company Contacts
G3.0	Project Notes
	Reclaimed Hydrant Map
Q1.0	Project Summary of Quantities
SR1.0	Survey Sheet and Control Points
RC1.0	Street Alignment Control Tables
RC2.0–5.1	Texas Avenue Construction Plans
RC6.0–11.0	10TH Street Construction Plans
RC12.0	Sunshine Avenue Construction Plans
RC13.0	Sunbeam Avenue Construction Plans
RC14.0	Sundown Avenue Construction Plans
RC15.0–15.1	Abbott Avenue Construction Plans
RC16.0–19.1	Michigan Avenue Construction Plans
RC20.0–25.0	Aspen Drive Construction Plans
RC26.0–27.0	Spruce Avenue Construction Plans
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RC32.0–35.0	Hendrix Drive Construction Plans
RC36.0–37.0	Ridgecrest Drive Construction Plans
ST1.0–2.0	Texas Avenue Striping Plan
ST3.0–4.0	10TH Street Striping Plan
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U11.0	Sunshine Avenue Utility Plans
U12.0	Sunbeam Avenue Utility Plans
U13.0	Sundown Avenue Utility Plans
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U18.0–23.0	Aspen Drive Utility Plans
U24.0–25.0	Spruce Avenue Utility Plans
U26.0–29.0	McKinley Avenue Utility Plans
U30.0–33.0	Hendrix Drive Utility Plans
U34.0	Ridgecrest Drive Utility Plans
D1.0–3.0	Miscellaneous Details

REV. No.	DATE	DESCRIPTION	APPROVED

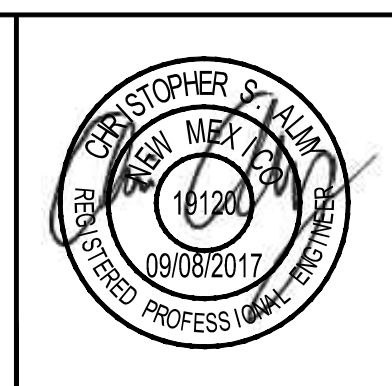
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 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

SHEET INDEX

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	GG
Designed By:	GG
Checked By:	CA
Approved By:	CA
Scale:	Horiz.: n/a Vert.: n/a

Sheet No.:	G1.0
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GENERAL NOTES:

1. **SPECIFICATIONS:** THE CITY OF ALAMOGORDO TECHNICAL SPECIFICATIONS, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS AND THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION (NMDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION 2007 EDITION (ORANGE BOOK), NMDOT SUPPLEMENTAL SPECIFICATIONS AND REVISIONS TO THE STANDARDS SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT. SEE BID DOCUMENT MANUAL, TECHNICAL SPECIFICATIONS FOR CONTRACT DOCUMENTS ORDER OF IMPORTANCE.
2. **GENERAL NOTES:** GENERAL NOTES SHALL APPLY TO ALL SHEETS, EXCEPT WHERE MORE SPECIFIC INFORMATION IS PROVIDED. SEE INDIVIDUAL DRAWINGS FOR ADDITIONAL ABBREVIATIONS, SYMBOLS, LEGENDS, NOTES, DETAILS, AND OTHER REQUIREMENTS. IN ALL CASES, THE INFORMATION SHOWN ON INDIVIDUAL DRAWINGS SHALL GOVERN OVER ANY GENERAL INFORMATION. NOT ALL SPECIFIED ITEMS AND/OR STANDARD DETAILS SHOWN MAY BE APPLICABLE TO THIS PROJECT.
3. **MEANS, METHODS OR TECHNIQUES:** THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS OR TECHNIQUES, NOR FOR THE EXECUTION OF THE WORK AS SHOWN ON THESE DRAWINGS. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THE CONTRACTORS OR SUBCONTRACTORS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. **SAFETY REQUIREMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL WORK AREAS IN SAFE CONDITION FOR THE PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE FOR ALL CONTRACTOR PERSONNEL AND SUBCONTRACTOR PERSONNEL WITH APPLICABLE CURRENT FEDERAL, OSHA, STATE, COUNTY, AND CITY LAWS, ORDINANCES, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA TRENCH SAFETY RULES AND REGULATIONS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL INSTALL, AT A MINIMUM, SAFETY FENCING 48-INCHES IN HEIGHT AROUND THE PERIMETER OF OPEN TRENCHES AND REMOVAL AREAS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
5. **CONTRACTOR RESPONSIBILITY:** THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE CONTRACTORS PERFORMANCE OF WORK ON THIS PROJECT.
6. **PROJECT DEVIATIONS:** ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS BY THE CONTRACTOR MUST BE ACCEPTED BY THE ENGINEER, IN WRITING, PRIOR TO THE WORK BEING DONE. ANY DEVIATIONS PERFORMED WITHOUT THE ENGINEER'S APPROVAL WILL NOT BE PAID FOR AND MAY BE REQUIRED TO BE RECONSTRUCTED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
7. **PUBLIC ACCESS TO LOCAL BUSINESSES & RESIDENCES:** THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE PROPERTY OWNERS AND THE ENGINEER OF ANY ACCESS MODIFICATIONS, AT LEAST 24 HOURS IN ADVANCE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
8. **PERMITTING:** IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REQUEST AND OBTAIN ALL PERMITS NECESSARY FOR THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CURRENT FEDERAL, OSHA, STATE, COUNTY, AND CITY LAWS, ORDINANCES, RULES AND REGULATIONS.
9. **MAINTENANCE OF AS-BUILT PLANS:** THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN ONE-WEEK, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE ENGINEER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 7-DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PAYMENT. FINAL AS-BUILT PLANS SHALL BE DELIVERED IN CLEAN HARD COPY. CONTRACTOR CERTIFICATION SHALL BE CLEARLY STATED ON THE COVER SHEET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
10. **WATER FOR CONSTRUCTION:** THE CONTRACTOR WILL BE RESPONSIBLE FOR PURCHASING ALL OF THE RECLAIMED WATER NEEDED FOR CONSTRUCTION FROM THE CITY OF ALAMOGORDO. THE COST WILL BE DETERMINED IN ACCORDANCE WITH THE CURRENT RECLAIMED WATER RATES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TRANSPORT AND APPLY THE RECLAIMED WATER AS SPECIFIED OR AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR LOCATION OF SOURCES. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OF PAYMENT WILL BE MADE THEREFORE.
11. **INTERRUPTION OF SERVICE:** CONTRACTOR MUST MAINTAIN WATER SERVICE AT ALL TIMES AS DIRECTED BY THE ENGINEER. IF AN INTERRUPTION OF SERVICE IS UNAVOIDABLE, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS ON A DOOR-TO-DOOR BASIS OR AS AGREED WITH THE ENGINEER. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR ALL WATER SHUT-OFFS.
12. **EARTHWORK HAUL:** THE EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEMS "UNCLASSIFIED EXCAVATION", AND "BORROW", AS APPLICABLE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR HAUL.
13. **PAVEMENT DROP-OFF POLICY:** IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION IN ACCORDANCE WITH THE NMDOT'S CURRENT "DROP-OFF POLICY". THE POLICY IS AVAILABLE FROM THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
14. **WARPING OF SLOPES:** THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT OF WAY OR CONSTRUCTION EASEMENT LIMITS.
15. **MATERIAL PITS:** NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE. ALL MATERIAL PITS SHALL BE GOVERNED BY SECTION 106 OF THE NMDOT STANDARD SPECIFICATIONS.
16. **CONSTRUCTION EQUIPMENT & MATERIAL STORAGE:** THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 28 FEET FROM THE EDGE OF THE DRIVING LANE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. ALL EQUIPMENT AND MATERIAL STORED IN STAGING YARD SHALL BE PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. IN NO CASE SHALL THE CONTRACTOR STORE EQUIPMENT OR MATERIAL IN THE DRIVING LANE. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
17. **PROTECTION OF SURVEY MONUMENTS:** THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS AND CONTROL POINTS FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. AN INVENTORY OF THE EXISTING MONUMENTS WILL BE TAKEN BY THE ENGINEER AND THE CONTRACTOR PRIOR TO START OF CONSTRUCTION. IF, DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK ". NATIONAL GEODETIC SURVEY, MARCH 1990, CONTACT: NGS MARK PRESERVATION CENTER-NOAA, TELEPHONE (505) 768-3606.
18. **REMOVALS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. REMOVALS NOT SHOWN ON THE PLANS WILL BE DESIGNATED BY THE ENGINEER. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. ITEMS THAT ARE SCHEDULED TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH-IN SEVEN (7) DAYS OF THEIR REMOVAL.
19. **SAW CUTTING:** CONTRACTOR SHALL SAW CUT PAVEMENT, CONCRETE SIDEWALK, CONCRETE DRIVE WAYS AND CURB AND GUTTER AT TIE-INS AS REQUIRED FOR A SMOOTH TRANSITION. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
20. **SALVAGEABLE MATERIALS:** SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED AND STOCK PILED AT THE CITY YARD LOCATED AT 2600 N. FLORIDA AVENUE. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
21. **WASTE MATERIALS:** WASTE MATERIAL MUST BE DISPOSED OF AT A STATE APPROVED SITE.
22. **PROTECTION OF EXISTING UTILITIES:** THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES AND SHALL COORDINATE ALL WORK WITH UTILITY OWNERS. ALL IMPROVEMENTS WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED, RECONSTRUCTED OR REPLACED WITHIN 24 HOURS TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
23. **CONTRACTOR COORDINATION WITH UTILITIES:** THE CONTRACTOR IS HEREBY ADVISED THAT UTILITY RELOCATION WORK BY THE UTILITY OWNERS MAY BE PERFORMED CONCURRENT WITH CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH CONSTRUCTION OPERATIONS AND SHALL BE REQUIRED TO COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY OWNERS. ANY CLAIMS FOR DELAY SHALL BE CONTROLLED BY THE TERMS AND CONDITIONS OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
24. **VERIFY ELEVATIONS:** THE CONTRACTOR SHALL EMPLOY A LICENSED NEW MEXICO SURVEYOR AND SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, AND RIGHT-OF-WAY PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ELEVATIONS WERE BASED ON AS-BUILT AND FIELD SURVEY DATA. THE CONTRACTOR SHALL LIMIT ALL WORK ON THIS PROJECT TO WITHIN THE EXISTING RIGHT-OF-WAY AND EASEMENTS. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION STAKING BID ITEM AND TO THE COMPLETION OF THE PROJECT, NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
25. **UTILITY DISCLAIMER:** UTILITY LOCATIONS SHOWN HEREON ARE BASED ON THE BEST AVAILABLE EVIDENCE INCLUDING PHYSICAL FEATURES SUCH AS VALVES, PEDESTALS, WARNING MARKERS AND SPOTS BY UTILITY LOCATING SERVICES. THERE IS NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITY DATA SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS TO VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE CONFLICT WITH MINIMUM DELAY. EXCAVATION TO VERIFY LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT, NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
26. **TRAFFIC CONTROL:** THE CONTRACTOR SHALL MAINTAIN AND CONTROL TRAFFIC AS OUTLINED IN THE "MUTCD, LATEST EDITION" DURING CONSTRUCTION. ANY NECESSARY DEVIATION FROM THE "MUTCD, LATEST EDITION" SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A COPY OF TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL, PRIOR TO START OF CONSTRUCTION.
27. **TRUCK WEIGHT:** MAXIMUM WEIGHT OF TRUCKS SHALL CONFORM TO N.M.D.O.T. STANDARDS. CONTRACTOR TO REPLACE ANY DAMAGED STREETS USED DURING CONSTRUCTION HAULING. REPLACEMENT OF DAMAGED STREETS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT, NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.
28. **WORK CONFINEMENT:** THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS OR RIGHT-OF-WAY. PARKING OF EMPLOYEE'S PRIVATE VEHICLES SHALL NOT BE ALLOWED ALONG CONSTRUCTION AREAS THROUGHOUT CONSTRUCTION LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROHIBIT ASPHALT VEHICLES AND EQUIPMENT, ROLLERS, CRANES, ETC., FROM DRIVING UPON, ACROSS, OR TURNING ON PRIVATE PROPERTY ADJACENT TO PROJECT WORK AREAS.
29. **SURFACE FEATURES:** CONTRACTOR SHALL REPAIR OR REPLACE FENCES, BLOCK WALLS, OR SURFACE FEATURES, DAMAGED BY CONTRACTOR'S OR SUBCONTRACTOR'S OPERATIONS, TO EXISTING OR BETTER CONDITION. REPAIR OR REPLACEMENT OF FENCES, BLOCK WALLS, OR SURFACE FEATURES SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
30. **PROJECT VIDEO:** PRIOR TO INITIATING CONSTRUCTION OPERATIONS, CONTRACTOR, SHALL PERFORM DIGITAL VIDEO RECORDING OF THE ENTIRE PROJECT, ITS FULL LENGTH AND WIDTH. THE CONTRACTOR, SHALL ALSO INCLUDE OR ADD AS NECESSARY, ANY AREAS TO BE DISTURBED FOR MATERIAL STORAGE, EMPLOYEE PARKING OR EQUIPMENT STORAGE.

THE VIDEO DOCUMENTATION SHALL BE COMPLETED IN DIGITAL FORMAT; IT SHALL BE A MINIMUM RESOLUTION OF 1920 X 1080 PIXELS, AT 60 FPS (FRAME PER SECOND) AND IN COLOR. THE VIDEO DOCUMENTATION SHALL BE PERFORMED BETWEEN 10:00 A.M. AND 2:00 P.M. DURING PERIODS OF FULL SUN EXPOSURE. THE ACTUAL DATE OF RECORDING SHALL BE DATE-STAMPED WITHIN EACH FRAME OF THE VIDEO. APPROVAL OF THE VIDEO MUST BE OBTAINED FROM THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CLEARING AND GRUBBING OPERATIONS.

A DVD COPY OF THE VIDEO RECORDING SHALL BE SUBMITTED TO THE ENGINEER, IN A FORMAT COMPATIBLE WITH STANDARD DVD PLAYERS.

ALL COST ASSOCIATED WITH THE VIDEO RECORDING SPECIFIED IN THIS ARTICLE SHALL BE CONSIDERED INCIDENTAL TO OTHER RELATED ITEMS OF WORK AND NO SEPARATE PAYMENT WILL BE MADE UNLESS SPECIFICALLY INDICATED ELSEWHERE IN THE SPECIAL PROVISIONS.
31. **SITE CLEAN UP:** PROJECT SITE(S) AND YARD(S) SHALL BE MAINTAINED BY CONTRACTOR AND KEPT IN A CLEAN AND ORDERLY MANNER TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

UTILITY COMPANY CONTACTS:

CITY OF ALAMOGORDO:
 WATER/SEWER: RONNIE BORUNDA – 575.439.4244 or 575.439.4132
 FACILITY/FIBER OPTIC: LARRY GARNER – 575.439.4390 or 575.439.4391
 PARK SUPERVISOR: ERIK MARION – 575.439.4139

PNM ELECTRIC: (OFFICE) 575.443.6610
 WILSON GUIN 575.430.2977
 LORNE WOFFORD 575.430.8380

NEW MEXICO GAS COMPANY: NATURAL GAS (OFFICE) 1.888.664.2726
 TIM TURRI 575.443.6424
 MARIO ESTRADA 575.430.8381
 KELLY SANDERS 575.491.0766

TELEPHONE (CENTURY LINK): RAMON ROMAN (O) 575.525.5101
 (C) 575.640.9152

CABLE TV: BAJA CABLE (OFFICE) 575.439.3534
 JONNNY RODRIGUEZ 575.442.0259

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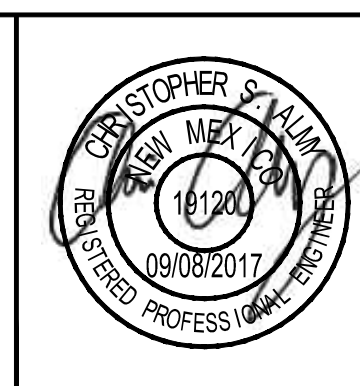
 Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention




Street Maintenance Program FY 2017

GENERAL NOTES AND UTILITY COMPANY CONTACTS

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT




 Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010	
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	EN1701

ROAD CONSTRUCTION PROJECT NOTES:

1. REFER TO DRAWING RC 1.0 FOR CENTERLINE ALIGNMENT DATA FOR ALL STREETS.
2. TARGET DESIGN SLOPE OF CURB RAMP RUNNING SLOPE IS 6.7% AS MEASURED AT THE BACK OF SIDEWALK. CONTRACTOR SHALL STRIVE TO ACHIEVE THIS DESIGN SLOPE AT EACH INSTALLATION. THE DESIGN SLOPE MAY NOT WORK IN ALL SCENARIOS. WHEN THE DESIGN SLOPE CANNOT BE ACHIEVED, CONTRACTOR SHALL ACHIEVE A SLOPE MAXIMUM OF 8.3%, MEASURED AT BACK OF SIDEWALK. THE LENGTH OF EACH RAMP SHALL NOT BE LESS THAN 5-FEET AND NOT GREATER THAN 15-FEET, MEASURED AT THE BACK OF SIDEWALK.
3. DIMENSIONS ARE RELATIVE TO BACK OF CURB AND BACK OF SIDEWALK, UNLESS SHOWN OTHERWISE.
4. NEW CURB RAMPS, ADA LANDINGS AND DRIVE PADS SHALL BE CONSTRUCTED OF 6-INCH THICK CONCRETE WITH REINFORCEMENT. NEW 4-INCH THICK CONCRETE SIDEWALK SHALL EXTEND 5-FEET FROM EACH NEW CURB RAMP TO TIE INTO EXISTING SIDEWALK.
5. MOST EXISTING UTILITIES HAVE NOT BEEN REFLECTED ON RC SERIES SHEETS FOR CLARITY. REFER TO U SERIES SHEETS TO SEE EXISTING UTILITIES.
6. EXISTING CURB AND GUTTER SHALL BE PROTECTED ALONG ALL MILL/INLAY CORRIDORS. ANY CURB AND GUTTER REPLACEMENT IS CALLED IN KEYED NOTES.
7. BID ITEM 203000 "UNCLASSIFIED EXCAVATION (OVER EXCAVATION)" HAS THE BID VOLUME COMPUTED FROM THE EXISTING GROUND ELEVATION DOWN TO THE NEW BASE COURSE BOTTOM ELEVATION IN AREAS OF COMPLETE PAVEMENT RECONSTRUCTION. THE COMPUTED VOLUME INCLUDES THE REMOVAL OF THE EXISTING SURFACING (ASPHALT OR CONCRETE) AND BASE COURSE. PROPER DISPOSAL IS REQUIRED PER GENERAL NOTE NO. 21.
8. PROJECT DESIGN GRADES ARE BASED ON REFERENCE POINTS AS NOTED ON PROJECT CONTROL SHEET SR 1.0.
9. NEW CURB & GUTTER, SIDEWALK, CURB-RAMPS WITH LANDING, AND SURFACING SHALL BE CONSTRUCTED AS SPECIFIED IN THE PLANS AND WILL REPLACE EXISTING ITEMS AS CALLED FOR. TRANSITION CURB STYLES AS SMOOTH AS POSSIBLE.
10. PAYMENT FOR VERTICAL CURBS BEHIND LANDINGS AND RAMPS, AS SPECIFIED, IS INCIDENTAL TO BID ITEM 608106 "6-INCH CONCRETE WITH REINFORCEMENT".
11. SLEEVES LOCATED AS PER MUTCD REGULATIONS FOR REMOVAL/RESETTING OF SIGNS FOR LATER RESETTING OF SIGNS MUST BE PROVIDED IN FRESH CONCRETE. RESET SIGNS TO PROVIDE MINIMUM ADA CLEARANCES.
12. NECESSARY TRANSITIONAL CUTS/FILLS BEHIND CURB/GUTTER, SIDEWALKS AND DRIVEWAYS ARE NOT QUANTIFIED AND ARE CONSIDERED INCIDENTAL TO THE ASSOCIATED BID ITEM.
13. REFERENCES TO PERCENT DENSITY SHALL BE INTERPRETED TO MEAN REQUIRED MINIMUM PERCENT OF OPTIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557).
14. DETECTABLE WARNING SURFACES FOR ADA LANDINGS SHALL BE CAST IN PLACE REPLACEABLE UNITS. WARNING SURFACES SHALL BE PLACED IMMEDIATELY BEHIND THE BACK OF CURB, UNLESS SHOWN OTHERWISE. COLOR SHALL BE YELLOW.
15. TRANSITION CURBING AT DRIVE PADS AND ADA RAMPS IS PAYABLE AS THE ADJACENT CURB BID ITEM.
16. THE COMPACTION EQUIPMENT FOR THIS PROJECT IS LIMITED TO 35 TONS OR LESS.
17. SURFACING IS TO BE FEATHERED AT TURNOUTS AND INTERSECTIONS, SO THERE IS NO ABRUPT CHANGE IN RIDING SURFACE. COST FOR THIS WORK SHALL BE INCIDENTAL.

UTILITY CONSTRUCTION PROJECT NOTES:

1. WATERLINE CURVATURE SHALL BE ACCOMPLISHED USING PIPE FLEXURE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PRACTICE. JOINTS ARE TO REMAIN FULLY SEATED. IN NO CASE SHALL ANY SINGLE DEFLECTION EXCEED 1.5' HORIZONTALLY OR VERTICALLY.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES. LOCATIONS SHOWN TO BE CONSIDERED APPROXIMATE FOR DESIGN PURPOSE.
3. CONTRACTOR TO FIELD VERIFY LOCATION AND LENGTH OF WATER SERVICES. WATER SERVICE CONNECTIONS ARE PAID BY EACH AND NO ADDITIONAL PAYMENT OR CREDITS SHALL BE MADE TO THIS ITEM.
4. CONTRACTOR SHALL CUT AND CAP EXISTING WATERLINE ONCE PROPOSED WATERLINE IS IN SERVICE.
5. WHERE A WATER LINE PASSES LESS THAN 18-INCHES ABOVE OR BELOW AN EXISTING SANITARY SEWER LINE, THE WATER LINE SHALL BE ENCASED IN CONCRETE, 6-INCHES THICK MEASURED FROM THE OUTSIDE WALL OF THE PIPE FOR AT LEAST 10-FEET ON EACH SIDE OF THE CROSSING POINT.
6. ALL WATER MAIN TEES, BENDS, END CAPS, VALVES AND FIRE HYDRANTS SHALL BE FURNISHED WITH BOTH CONCRETE THRUST BLOCKS AND RESTRAINED JOINTS IN ACCORDANCE WITH THE DETAILS SHOWN FOR THESE ITEMS. CONCRETE THRUST BLOCKS AND MECHANICAL JOINT RESTRAINTS ARE INCIDENTAL TO THE ASSOCIATED ITEM.
7. EXISTING WATER MAINS WHICH ARE DESIGNATED TO BE REPLACED SHALL BE CAPPED OFF, BLOCKED WITH CONCRETE AND ABANDONED IN PLACE.
8. ALL WATER SYSTEM IMPROVEMENT MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF AWWA STANDARDS.

REV. No.	DATE	DESCRIPTION	APPROVED

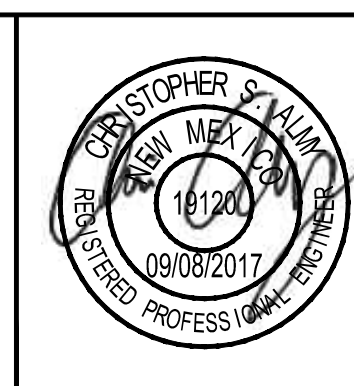
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NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

GENERAL NOTES AND UTILITY COMPANY CONTACTS

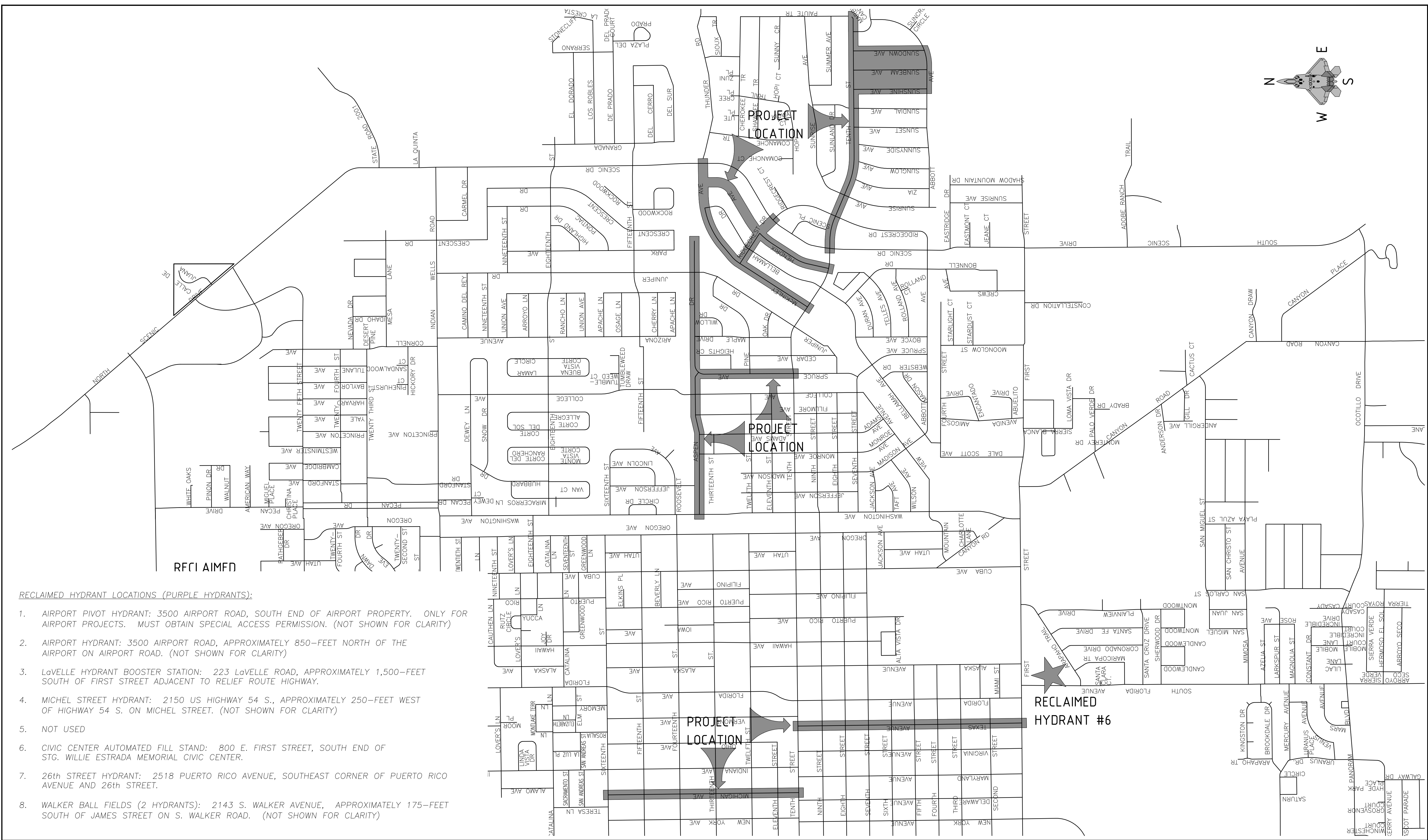
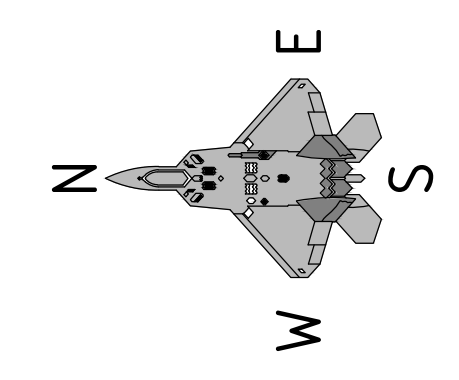
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010	
Drawn By:	GG	Designed By: GG
Checked By:	CA	Approved By: CA
Scale:	Horiz.: n/a	Vert.: n/a

Sheet No.:	G2.1
Sheet	4 of 103
	EN1701



RECLAIMED HYDRANT LOCATIONS (PURPLE HYDRANTS):

1. AIRPORT PIVOT HYDRANT: 3500 AIRPORT ROAD, SOUTH END OF AIRPORT PROPERTY. ONLY FOR AIRPORT PROJECTS. MUST OBTAIN SPECIAL ACCESS PERMISSION. (NOT SHOWN FOR CLARITY)
2. AIRPORT HYDRANT: 3500 AIRPORT ROAD, APPROXIMATELY 850- FEET NORTH OF THE AIRPORT ON AIRPORT ROAD. (NOT SHOWN FOR CLARITY)
3. LoVELLE HYDRANT BOOSTER STATION: 223 LoVELLE ROAD, APPROXIMATELY 1,500- FEET SOUTH OF FIRST STREET ADJACENT TO RELIEF ROUTE HIGHWAY.
4. MICHEL STREET HYDRANT: 2150 US HIGHWAY 54 S., APPROXIMATELY 250- FEET WEST OF HIGHWAY 54 S. ON MICHEL STREET. (NOT SHOWN FOR CLARITY)
5. NOT USED
6. CIVIC CENTER AUTOMATED FILL STAND: 800 E. FIRST STREET, SOUTH END OF STG. WILLIE ESTRADA MEMORIAL CIVIC CENTER.
7. 26th STREET HYDRANT: 2518 PUERTO RICO AVENUE, SOUTHEAST CORNER OF PUERTO RICO AVENUE AND 26th STREET.
8. WALKER BALL FIELDS (2 HYDRANTS): 2143 S. WALKER AVENUE, APPROXIMATELY 175- FEET SOUTH OF JAMES STREET ON S. WALKER ROAD. (NOT SHOWN FOR CLARITY)

REV. No.	DATE	DESCRIPTION	APPROVED

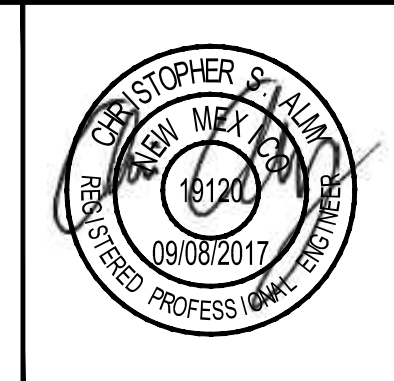
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Street Maintenance Program FY 2017

RECLAIMED HYDRANT MAP

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Ocean Engineers Inc.
 506 S MAIN ST, SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-3387 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010	Sheet No.:	G3.0
Drawn By:	GG	Designed By:	GG
Checked By:	CA	Approved By:	CA
Scale:	Horiz.: n/a	Vert.: n/a	Sheet 5 of 103
			EN1701

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL PROJECT	
			ESTIMATE	FINAL
203000	UNCLASSIFIED EXCAVATION (OVER EXCAVATION)	C.Y.	3,418	
207000	8" SUBGRADE PREPARATION (OVER EXCAVATION)	S.Y.	11,233	
303010	BASE COURSE (OVER EXCAVATION)	C.Y.	2,497	
414120	2" THICK HMA COLD MILLING	S.Y.	88,729	
417000	PAVEMENT PATCH	S.Y.	1,506	
423270	HMA SP-IV 2-INCHES THICK	S.Y.	90,459	
423271	HMA SP-IV 3-INCHES THICK (OVER EXCAVATION)	S.Y.	10,899	
450090	CONCRETE PAVEMENT 9-INCHES THICK	S.Y.	69	
608000	TACTILE WARNING SURFACE	S.F.	1,534	
608104	4-INCH THICK CONCRETE	S.Y.	906	
608106	6-INCH THICK CONCRETE WITH REINFORCEMENT	S.Y.	2,828	
609424	TYPE II CURB/GUTTER	L.F.	8,211	
614006	CONCRETE PIPE ENCASMENT	L.F.	320	
618000	FURNISH & PROVIDE MUTCD PLAN	L.S.	1	
621000	MOBILIZATION	L.S.	1	
662400	ADJUST EXISTING MANHOLE TO FINAL GRADE	EA	41	
663100	NEW FIRE HYDRANT	EA	73	
663101	REMOVE & DISPOSE FIRE HYDRANT	EA	32	
663710	3/4-INCH SERVICE LINE REPLACEMENT	EA	544	
663711	1-INCH SERVICE LINE REPLACEMENT	EA	11	
663712	2-INCH SERVICE LINE REPLACEMENT	EA	6	
663724	4-INCH PVC WATERLINE	L.F.	50	
663726	6-INCH PVC WATERLINE	L.F.	15,570	
663728	8-INCH PVC WATERLINE	L.F.	4,441	
663730	10-INCH PVC WATERLINE	L.F.	7,393	
663772	DRY LATERAL WATERLINE CONNECTION	EA	31	
663856	REMOVE & DISPOSE EXISTING VALVE BOX	EA	96	
663887	WET LATERAL WATERLINE CONNECTION	EA	29	
663855	ADJUST EXISTING VALVE BOX TO GRADE	EA	13	
663896	6-INCH MAINLINE GATE VALVE	EA	71	
663898	8-INCH MAINLINE GATE VALVE	EA	34	
663899	10-INCH MAINLINE GATE VALVE	EA	28	
663944	EXISTING 4-INCH SEWER SERVICE REPAIR	LF	87	
663965	4" SEWER SERVICE CONNECTION AT EXISTING MAINLINE	EA	15	
704224	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 24-INCHES WIDE	L.F.	1,003	
704330	RETROREFLECTORIZED PLASTIC LEFT ARROW	EA	1	
704440	RETROREFLECTORIZED PLASTIC WORD (ONLY)	EA	1	
704700	HOT THERMOPLASTIC PAVEMENT STRIPE 4-INCHES WIDE	L.F.	7,431	
704715	HOT THERMOPLASTIC PAVEMENT MARKING COMBINATION (THRU & RIGHT) ARROW	EA	1	
801000	CONSTRUCTION STAKING & SURVEYING	L.S.	1	

REV. No.	DATE	DESCRIPTION	APPROVED

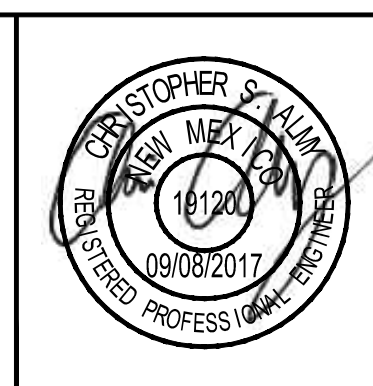
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 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

SUMMARY OF QUANTITIES

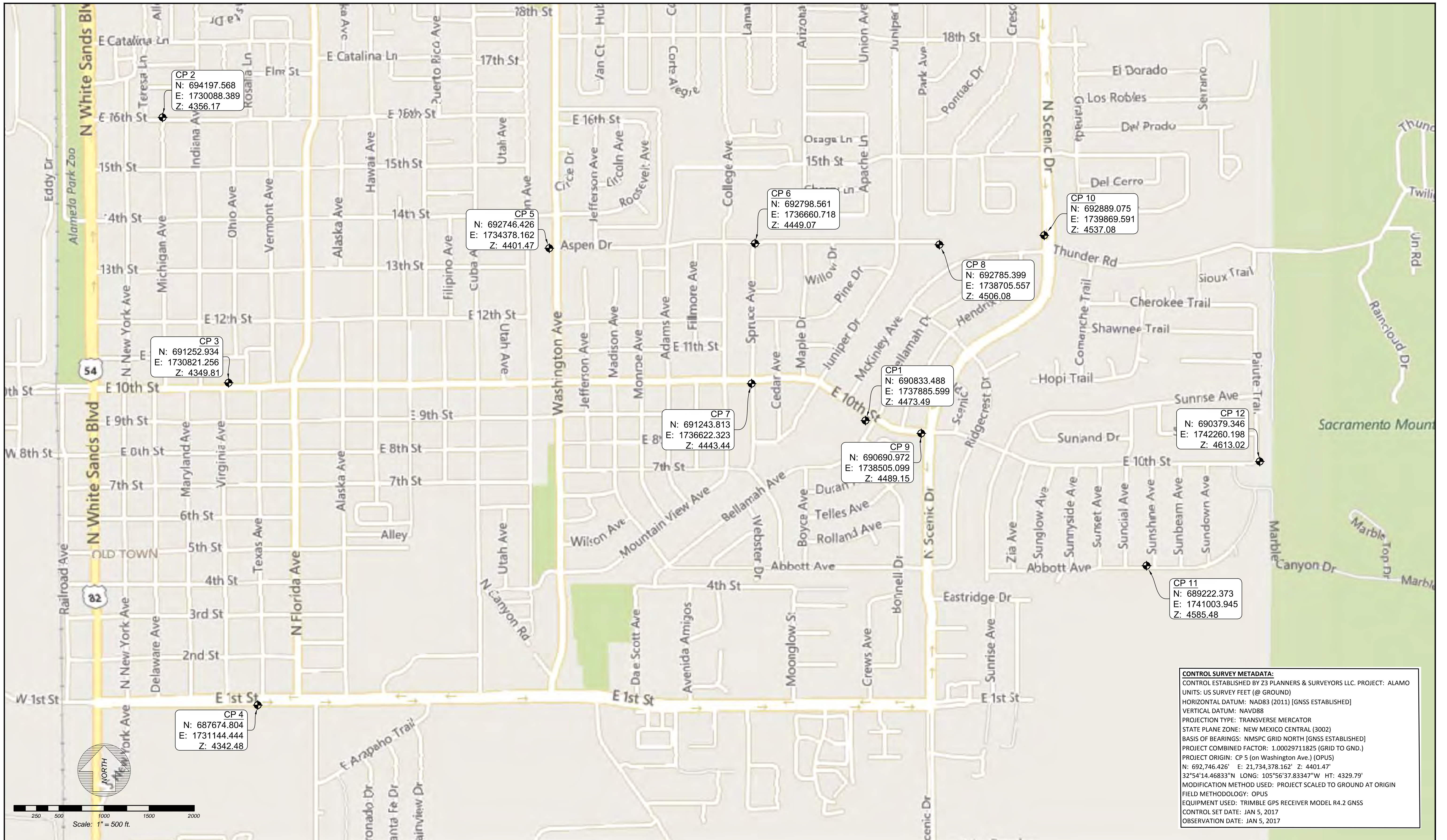
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010	
Drawn By:	GG	Designed By: GG
Checked By:	CA	Approved By: CA
Scale:	Horiz.: n/a	Vert.: n/a

Sheet No.:	Q 1.0
Sheet	6 of 103
EN1701	



CONTROL SURVEY METADATA:
 CONTROL ESTABLISHED BY Z3 PLANNERS & SURVEYORS LLC. PROJECT: ALAMO
 UNITS: US SURVEY FEET (@ GROUND)
 HORIZONTAL DATUM: NAD83 (2011) [GNSS ESTABLISHED]
 VERTICAL DATUM: NAVD88
 PROJECTION TYPE: TRANSVERSE MERCATOR
 STATE PLANE ZONE: NEW MEXICO CENTRAL (3002)
 BASIS OF BEARINGS: NMSPC GRID NORTH [GNSS ESTABLISHED]
 PROJECT COMBINED FACTOR: 1.00029711825 (GRID TO GND.)
 PROJECT ORIGIN: CP 5 (on Washington Ave.) (OPUS)
 N: 692,746.426' E: 21,734,378.162' Z: 4401.47'
 32°54'14.46833"N LONG: 105°56'37.83347"W HT: 4329.79'
 MODIFICATION METHOD USED: PROJECT SCALED TO GROUND AT ORIGIN
 FIELD METHODOLOGY: OPUS
 EQUIPMENT USED: TRIMBLE GPS RECEIVER MODEL R4.2 GNSS
 CONTROL SET DATE: JAN 5, 2017
 OBSERVATION DATE: JAN 5, 2017

REV. No.	DATE	DESCRIPTION	APPROVED

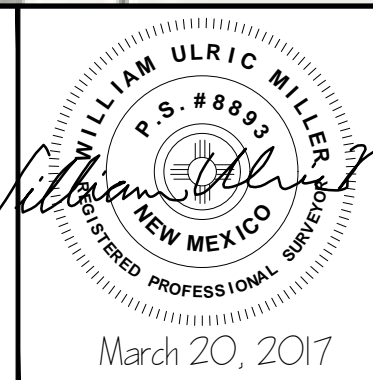
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 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

SURVEY SHEET AND CONTROL POINTS

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Occam Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	WM
Designed By:	WM
Checked By:	WM
Approved By:	WM
Scale: Horiz.:	1"=500'
Scale: Vert.:	n/a

Sheet No.: **SR1.0**
 Sheet 7 of 103
 EN1701

TEXAS AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	34+80.36		3480.36	N0° 39' 19.89"W

SUNSHINE AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	11+41.56		1141.56	N0° 23' 03.05"W

SUNBEAM AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	11+44.03		1144.03	S0° 22' 55.74"E

SUNDOWN AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	0+11.00		11.00	N20° 25' 07.95"W
C1			65.91	14.61	N14° 04' 12.25"W
L2	0+25.61	0+44.56		18.95	N7° 43' 16.55"W
C2			65.91	8.46	N4° 02' 43.10"W
L3	0+53.02	11+04.35		1051.33	N0° 22' 09.66"W

ABBOTT AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	2+34.49		234.49	S89° 43' 24.64"E
C1			200.00	0.95	S89° 51' 36.01"E
L2	2+35.45	3+16.66		81.21	S89° 59' 47.38"E
C2			200.00	0.39	N89° 56' 50.24"E
L3	3+17.05	4+14.86		97.81	N89° 53' 27.87"E
C3			200.00	1.66	S89° 52' 17.79"E
L4	4+16.51	4+66.55		50.03	S89° 38' 03.44"E
C4			601.16	144.02	N85° 14' 23.90"E
C5			653.14	234.75	N70° 00' 47.72"E

TENTH ST.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	1+22.62		122.62	S89° 18' 05.06"E
C1			900.00	358.46	S77° 53' 28.52"E
L2	4+81.08	8+39.95		358.88	S66° 28' 51.97"E
L3	8+39.95	10+37.46		197.51	S66° 21' 58.39"E
C2			1060.00	445.89	S78° 25' 01.15"E
L4	14+83.35	16+52.76		169.41	N89° 31' 56.09"E
L5	16+52.76	17+26.24		73.48	N89° 36' 59.47"E
L6	17+26.24	19+14.96		188.72	N89° 38' 17.01"E
L7	19+14.96	19+90.83		75.87	N89° 40' 05.38"E
L8	19+90.83	22+83.93		293.10	N89° 34' 52.23"E
L9	22+83.93	25+00.46		216.53	N89° 35' 51.92"E
L10	25+00.46	25+81.00		80.54	N89° 36' 00.26"E
L11	25+81.00	28+04.21		223.21	N89° 39' 44.67"E
L12	28+04.21	28+81.05		76.84	N89° 38' 59.19"E
L13	28+81.05	31+05.70		224.65	N89° 39' 04.27"E
L14	31+05.70	31+82.66		76.96	N89° 25' 09.65"E
L15	31+82.66	34+02.46		219.81	N89° 31' 22.23"E
L16	34+02.46	34+82.99		80.52	N89° 37' 43.94"E
L17	34+82.99	36+20.20		137.21	N89° 28' 05.77"E
C3			70.00	109.31	N44° 44' 02.88"E
L18	37+29.50	37+60.00		30.50	N0° 00' 00.00"E

MICHIGAN AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	2+89.54		289.54	N0° 50' 16.35"W
L2	2+89.54	3+55.86		66.32	N0° 42' 24.77"W
L3	3+55.86	6+96.28		340.43	N0° 39' 50.36"W
L4	6+96.28	7+66.75		70.46	N0° 35' 52.17"W
L5	7+66.75	12+58.78		492.03	N0° 39' 37.86"W
L6	12+58.78	13+23.60		64.82	N0° 41' 18.29"W
L7	13+23.60	18+17.09		493.49	N0° 40' 23.40"W
L8	18+17.09	18+80.24		63.15	N0° 49' 08.15"W
L9	18+80.24	23+77.84		497.60	N0° 39' 24.42"W
L10	23+77.84	24+42.56		64.72	N0° 41' 20.18"W
L11	24+42.56	29+73.79		531.23	N0° 39' 47.73"W

ASPEN DR.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	4+47.67		447.67	N89° 56' 07.35"E
L2	4+47.67	9+40.12		492.46	N89° 52' 59.88"E
L3	9+40.12	12+43.40		303.28	N89° 52' 05.58"E
L4	12+43.40	12+80.81		37.41	N89° 43' 44.66"E
L5	12+80.81	15+46.35		265.54	N76° 11' 20.90"E
L6	15+46.35	15+57.70		11.35	N89° 00' 03.09"E
L7	15+57.70	18+78.47		320.78	N89° 13' 45.15"E
L8	18+78.47	19+18.48		40.01	S81° 58' 55.85"E
L9	19+18.48	21+28.09		209.60	N89° 28' 07.80"E
C1			73.75	50.01	S71° 06' 22.79"E
L10	21+78.09	22+40.12		62.03	S51° 40' 53.91"E
C2			149.25	134.69	N64° 10' 16.99"E
L11	23+74.81	25+19.35		144.54	S89° 58' 32.10"E
L12	25+19.35	28+14.67		295.31	S89° 59' 12.00"E
L13	28+14.67	31+04.33		289.66	N89° 44' 58.51"E
L14	31+04.33	38+20.16		715.83	N89° 46' 04.69"E
L15	38+20.16	42+99.83		479.67	N89° 54' 52.34"E

SPRUCE AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	6+79.87		679.87	N0° 15' 14.58"W
L2	6+79.87	9+75.80		295.93	N0° 29' 28.94"W
L3	9+75.80	13+85.79		409.99	N0° 47' 57.11"W
C1			149.25	101.90	N18° 45' 34.49"E

RIDGECREST DR.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L5	0+00.00	1+62.56		162.56	N43° 03' 39.39"W
L4	1+62.56	2+97.14		134.58	N46° 51' 41.97"W
L3	2+97.14	5+43.52		246.38	N56° 53' 42.94"W
L2	5+43.52	8+56.77		313.25	N57° 12' 59.93"W
L1	8+56.77	9+93.48		136.71	N53° 03' 12.77"W

MC KINLEY AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	12+78.70		1278.70	N32° 55' 59.79"E
C1			450.00	135.41	N41° 33' 14.18"E
L2	14+14.11	16+51.95		237.84	N50° 10' 28.56"E
C2			1250.00	843.97	N69° 31' 01.31"E
L3	24+95.93	29+92.43		496.50	N88° 51' 34.05"E

HENDRIX AVE.					
Number	Start Station	End Station	Radius	Length	Line/Chord Direction
L1	0+00.00	3+25.30		325.30	N12° 41' 31.10"E
C1			630.00	223.04	N22° 50' 02.65"E
L2	5+48.34	9+62.89		414.55	N32° 58' 34.20"E
C2			1175.00	538.16	N46° 05' 49.51"E
L3	15+01.05	20+15.38		514.34	N59° 13' 04.83"E
C3			280.00	291.76	N29° 21' 59.79"E
L4	23+07.15	25+12.44		205.29	N0° 29' 05.24"W

REV. No.	DATE	DESCRIPTION	APPROVED

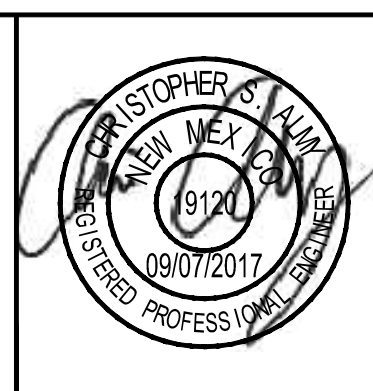
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 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

STREET ALIGNMENT CONTROL TABLES

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.: 2017-010
 Drawn By: GG Designed By: GG
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 Scale: Horiz.: Vert.: n/a

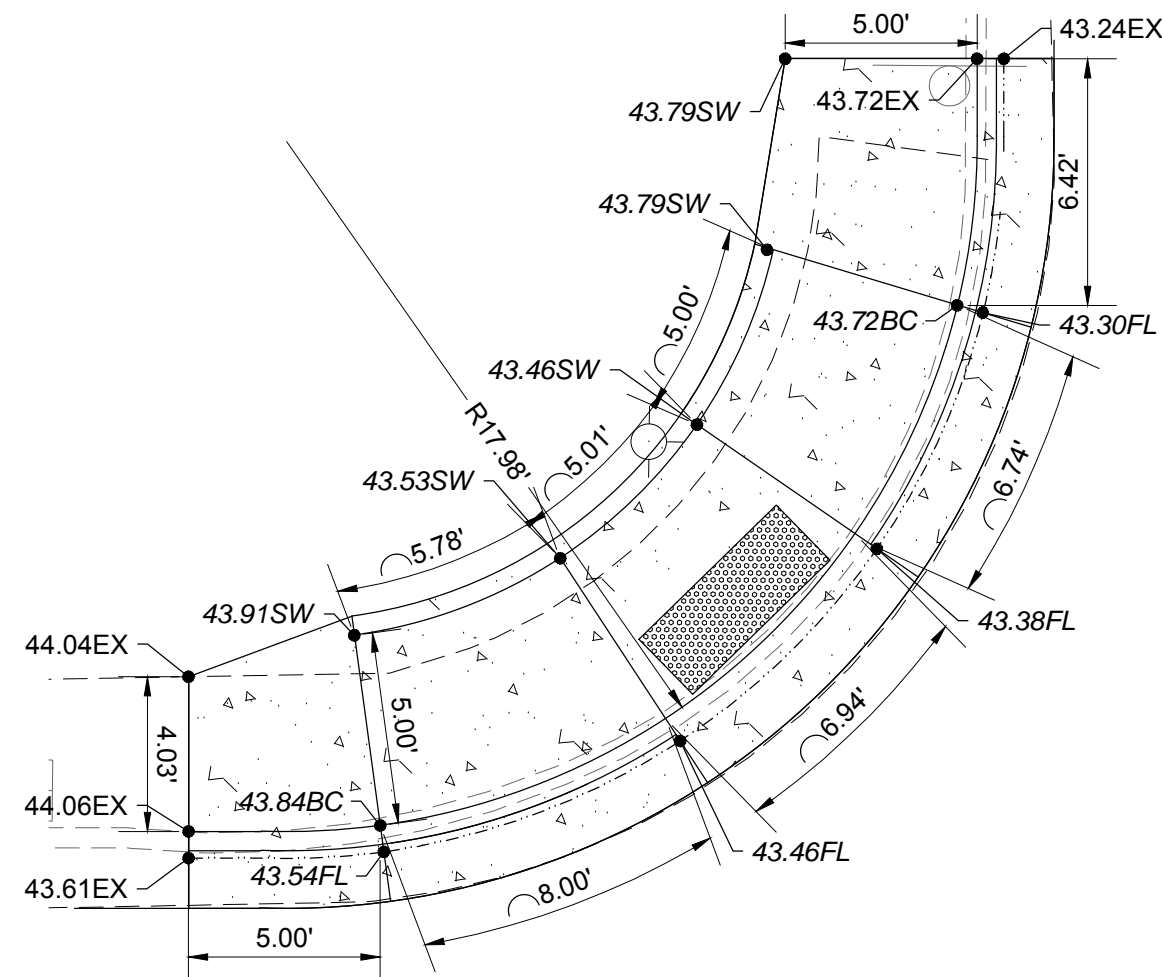
Sheet No.: **RC 1.0**
 Sheet 8 of 103

CONSTRUCTION PLAN KEY NOTES:

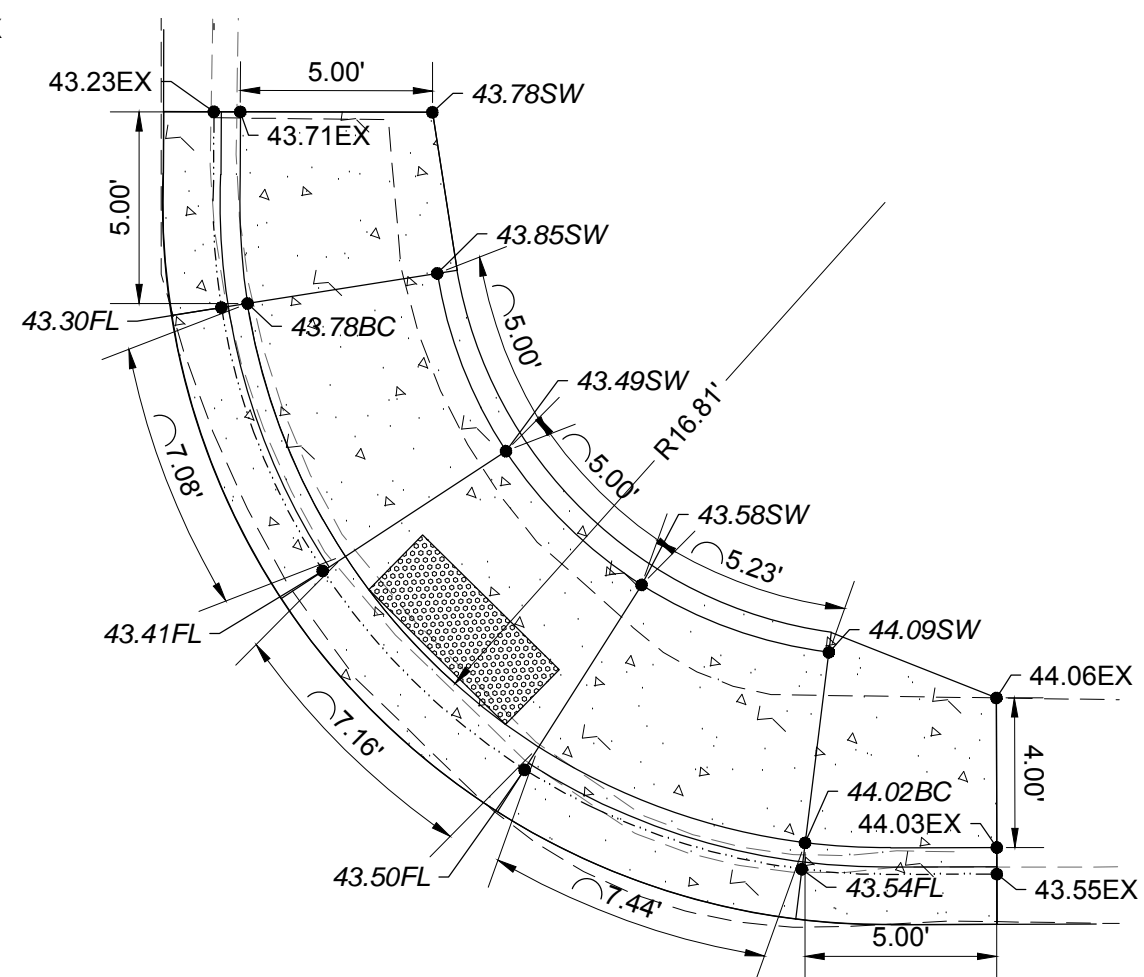
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB AND GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVER HEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED & REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY 2' INTO EXISTING INTERSECTION HMA

LEGEND

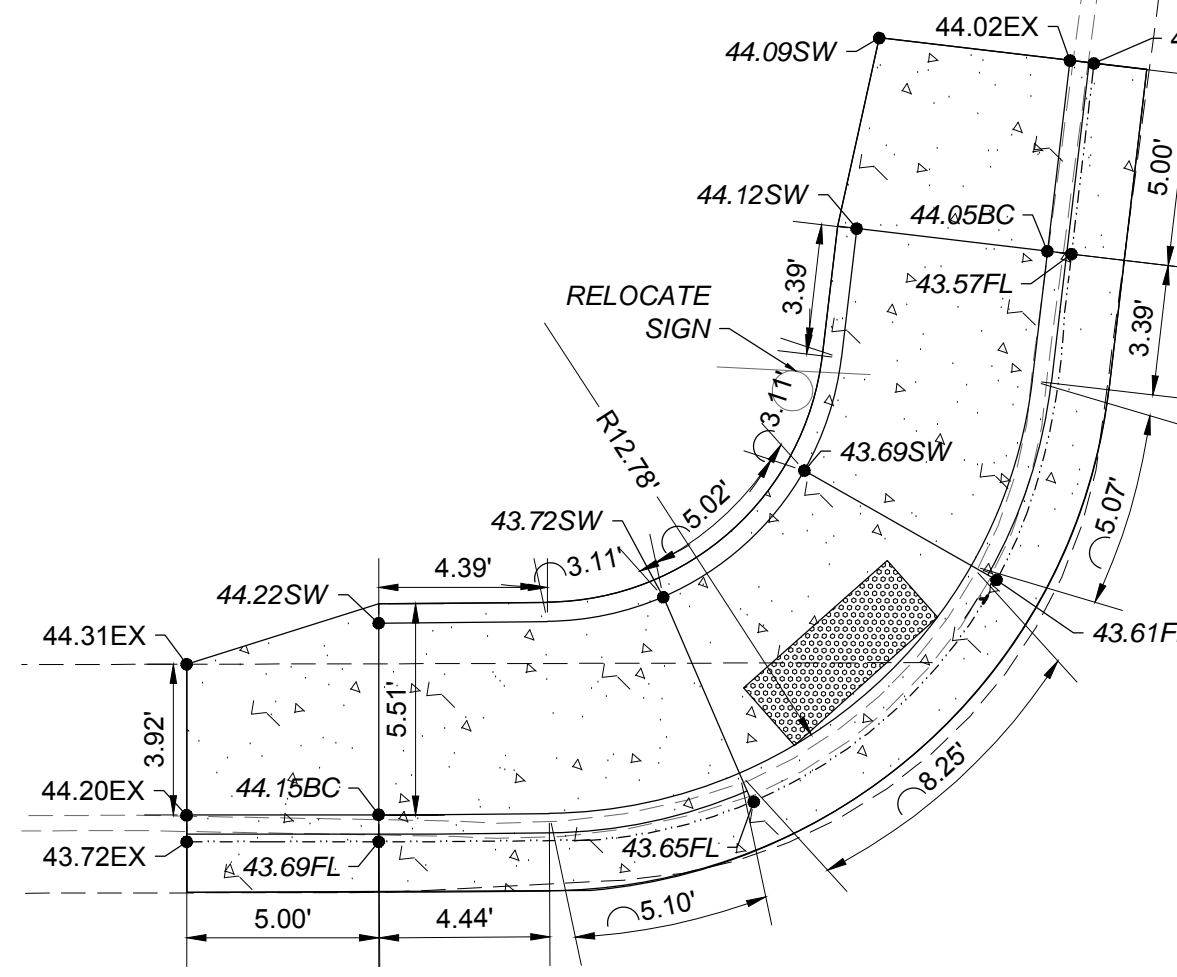
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	



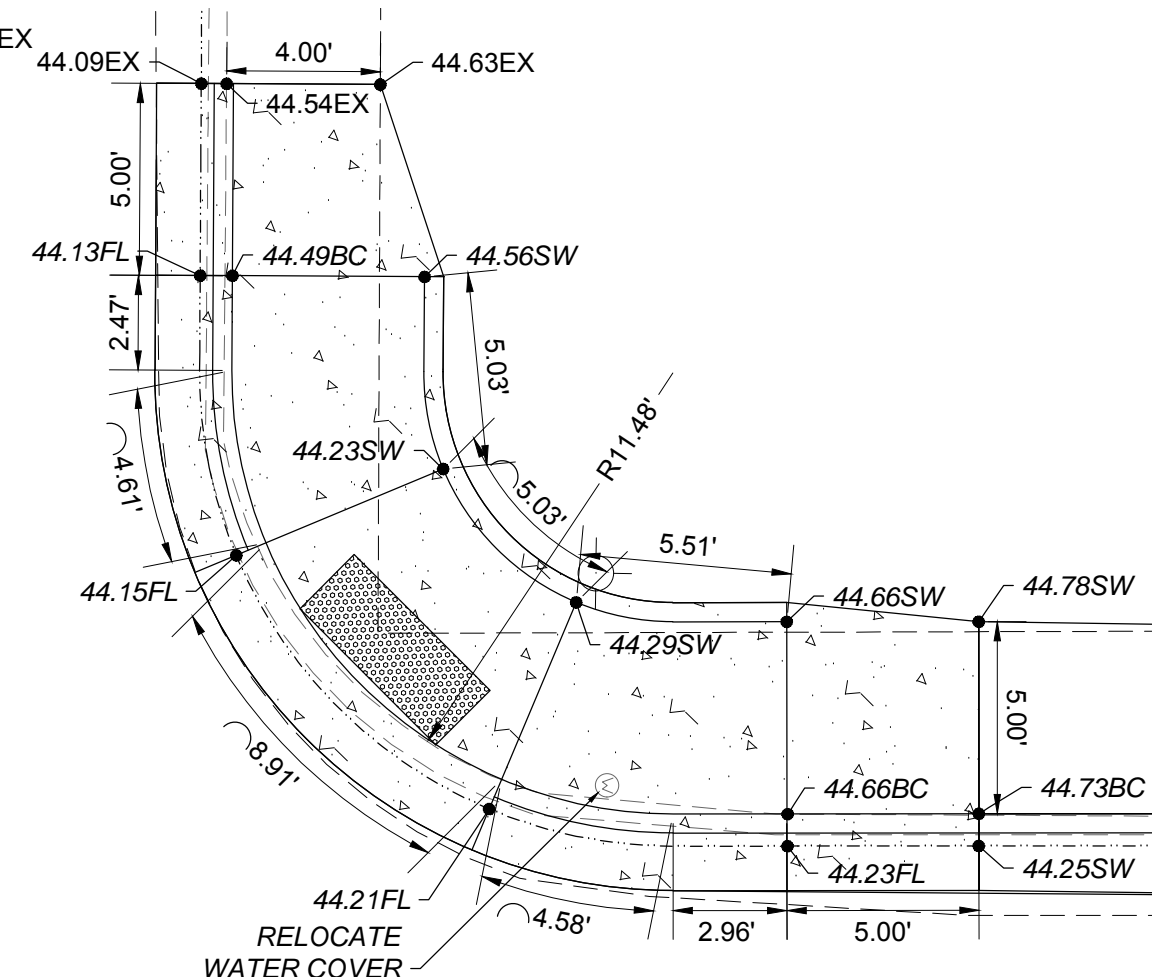
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE: 1:10



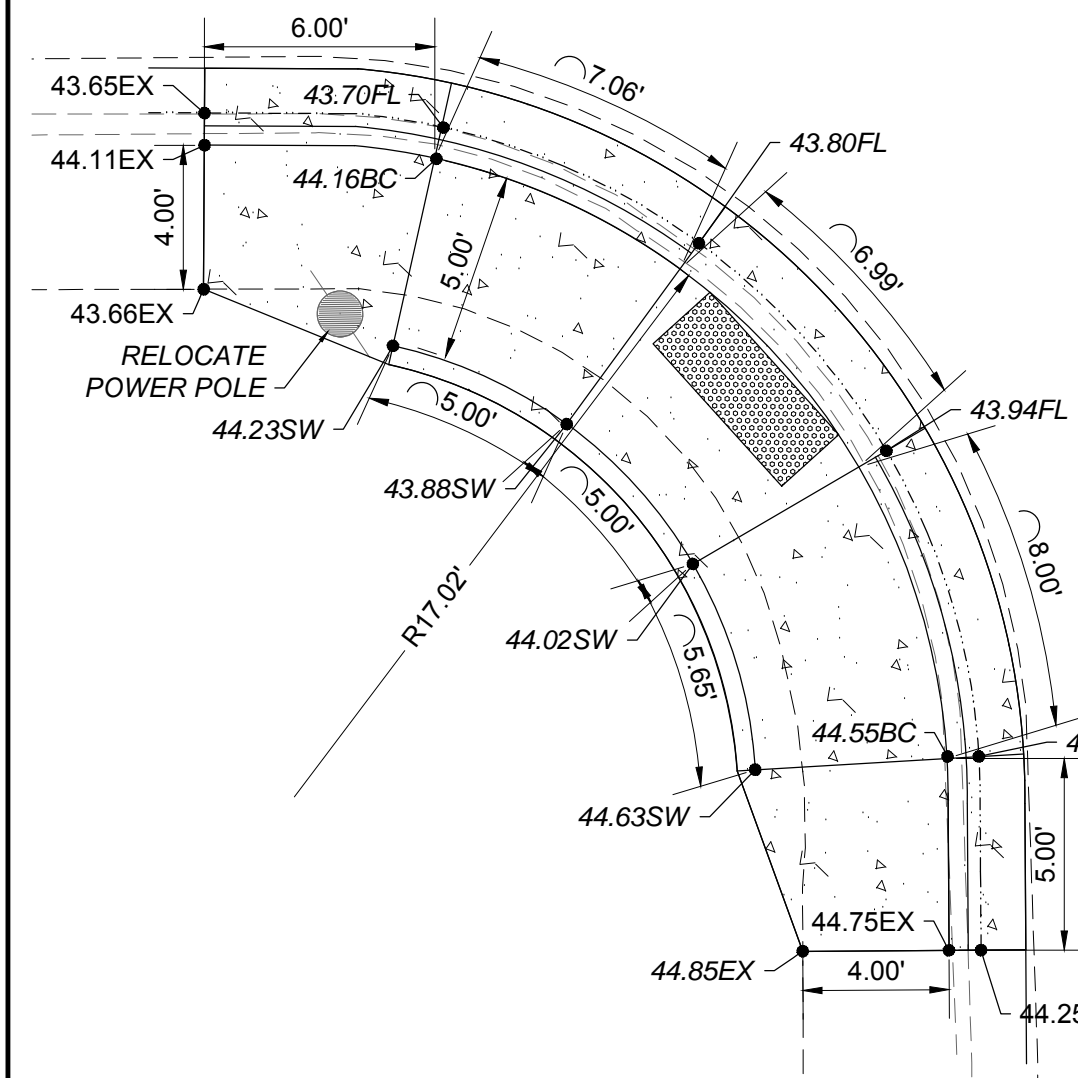
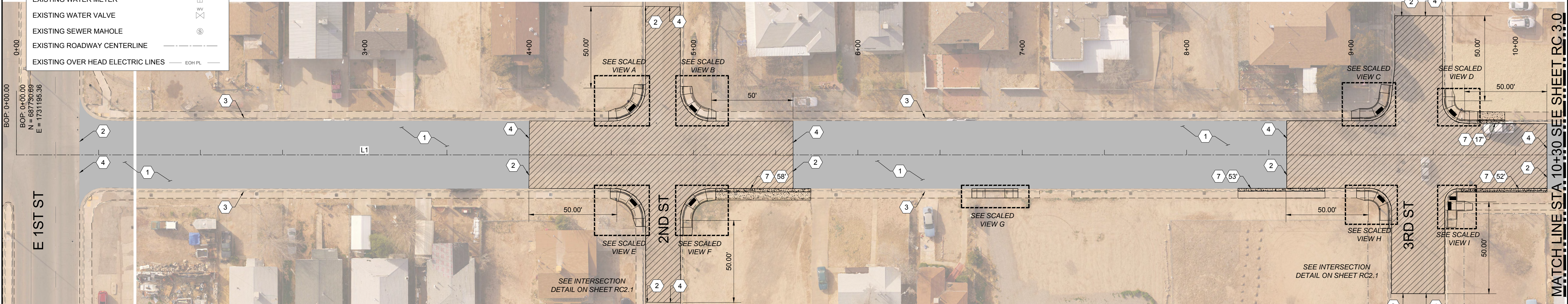
SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE: 1:10



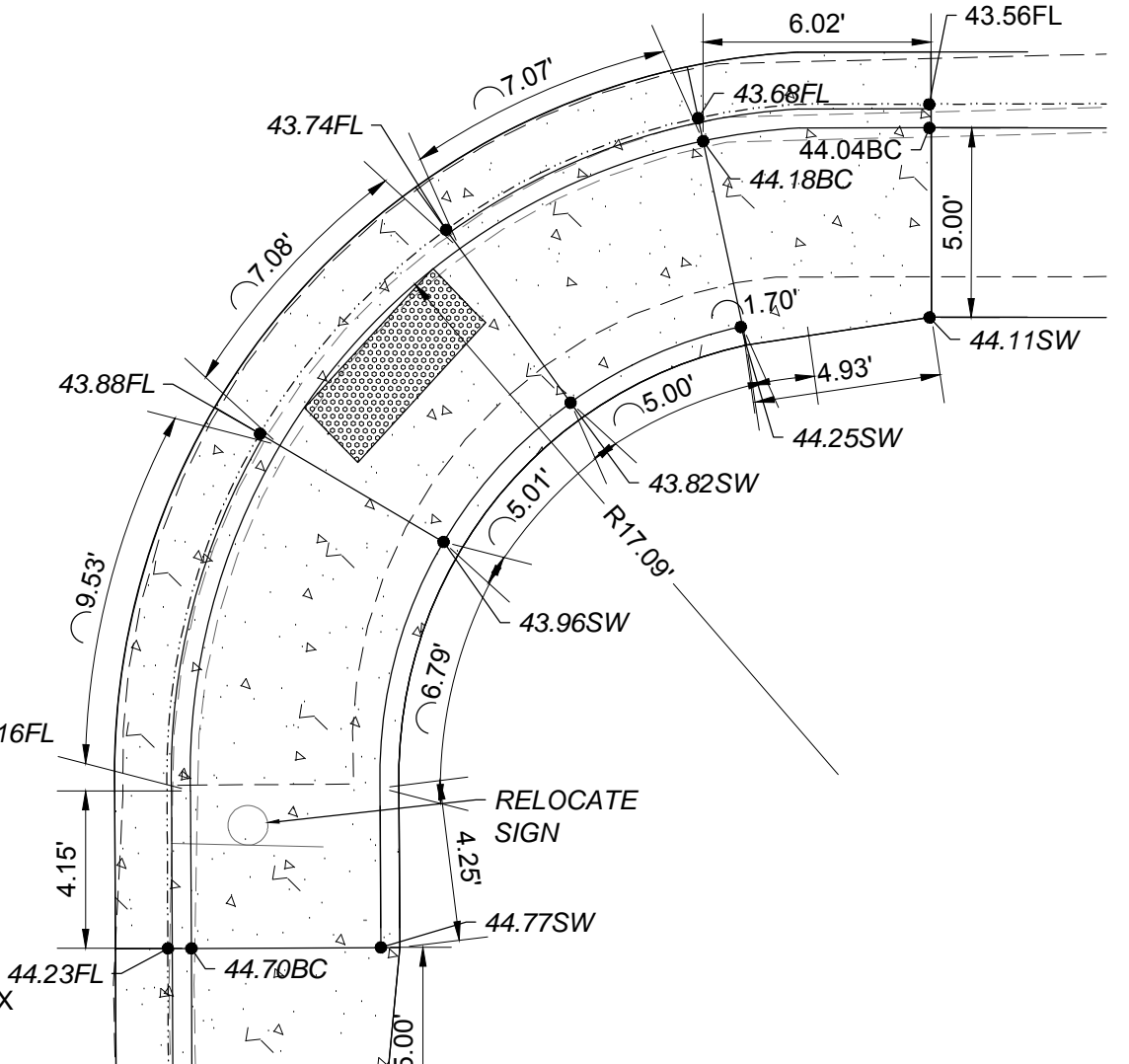
SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE: 1:10



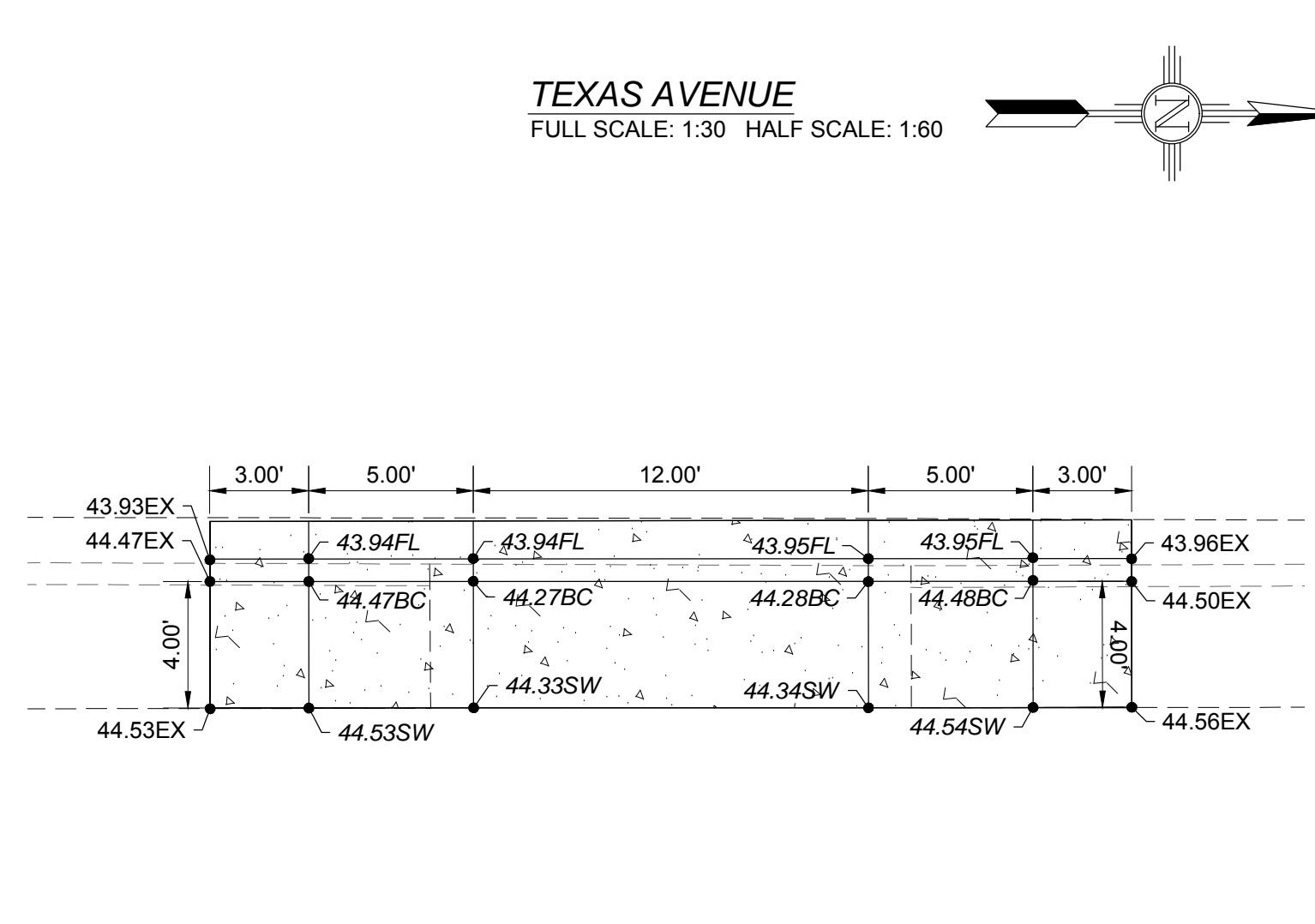
SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE: 1:10



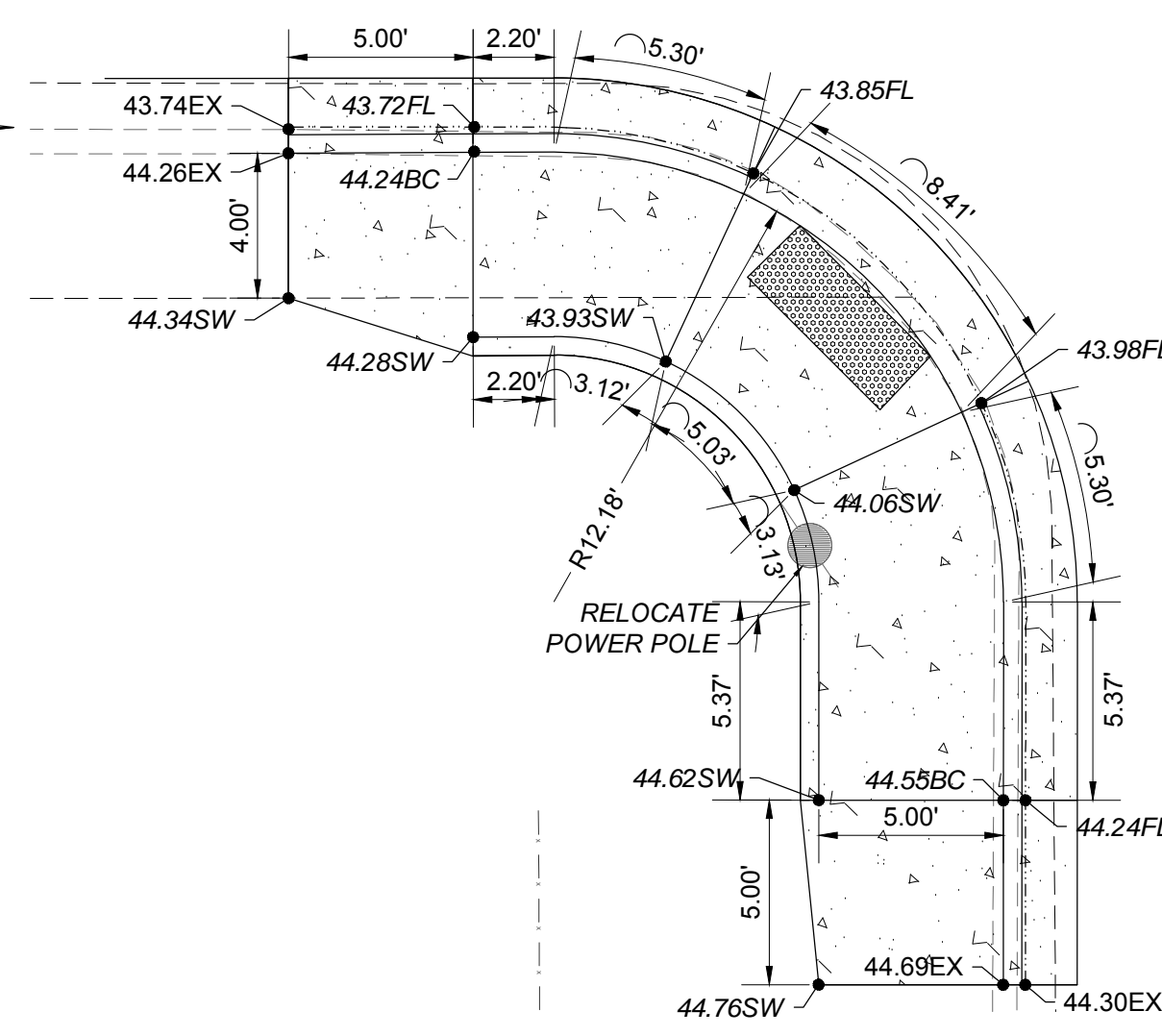
SCALED VIEW E
FULL SCALE: 1:5 HALF SCALE: 1:10



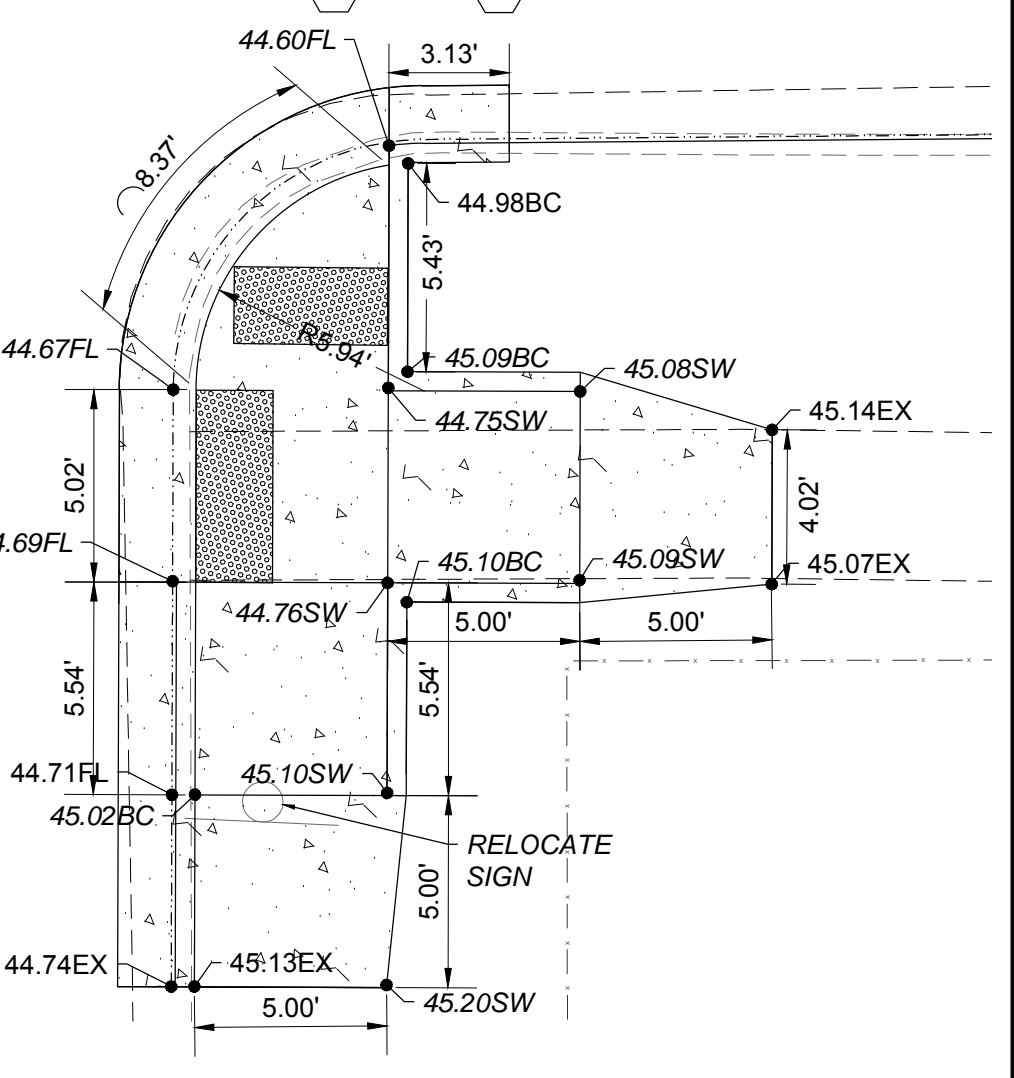
SCALED VIEW F
FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW G
FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW H
FULL SCALE: 1:5 HALF SCALE: 1:10



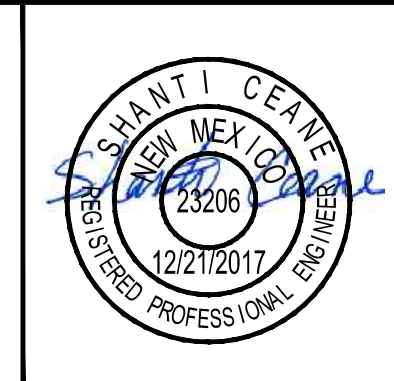
SCALED VIEW I
FULL SCALE: 1:5 HALF SCALE: 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	9-08-17	ISSUED FOR CONSTRUCTION	SC

New Mexico One Call, Inc. Call 2 days before you dig!
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 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017
TEXAS AVENUE ROAD CONSTRUCTION PLAN
 STATION 0+00 TO 10+30
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

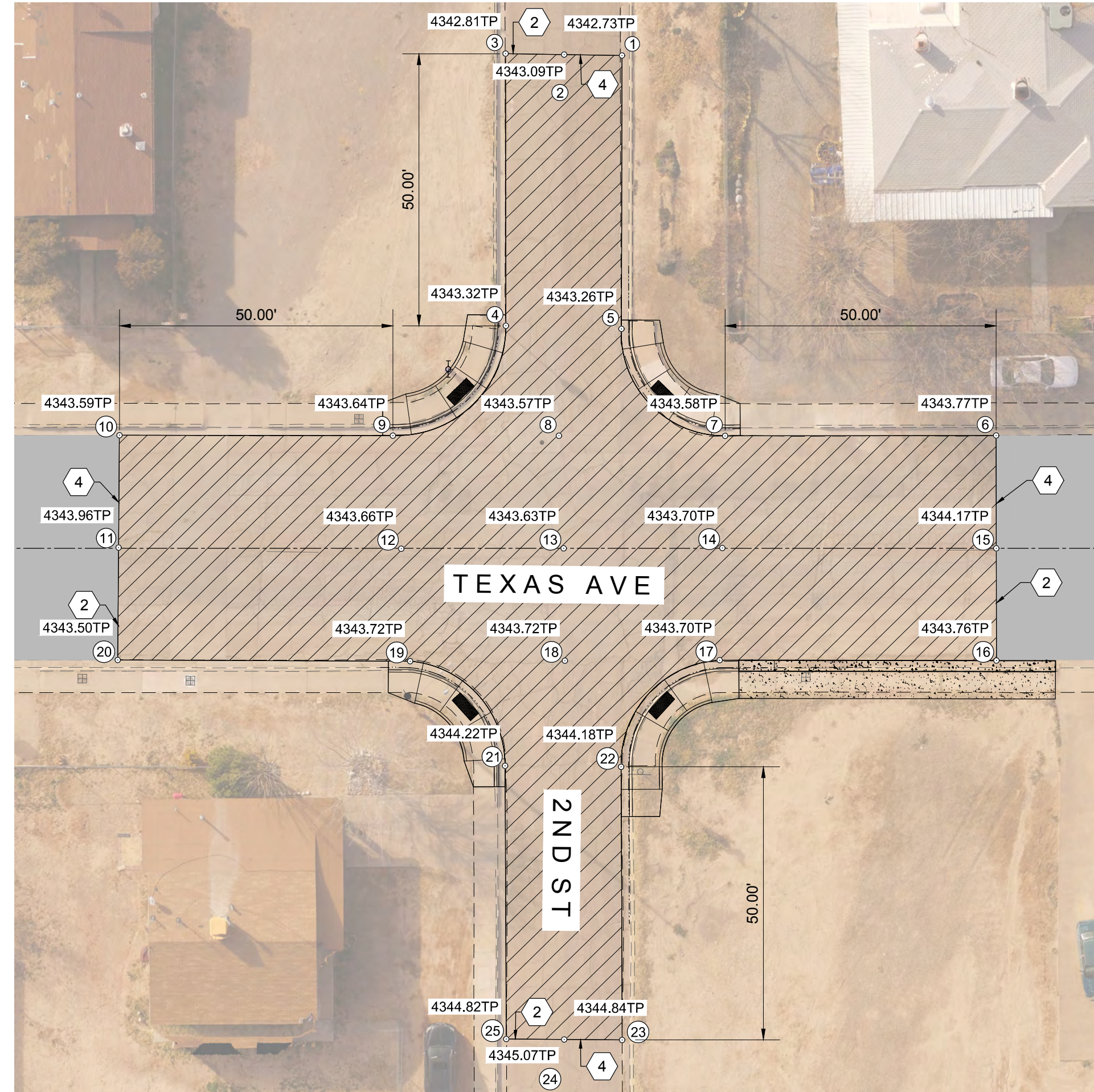


OEI Ocean Engineers, Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
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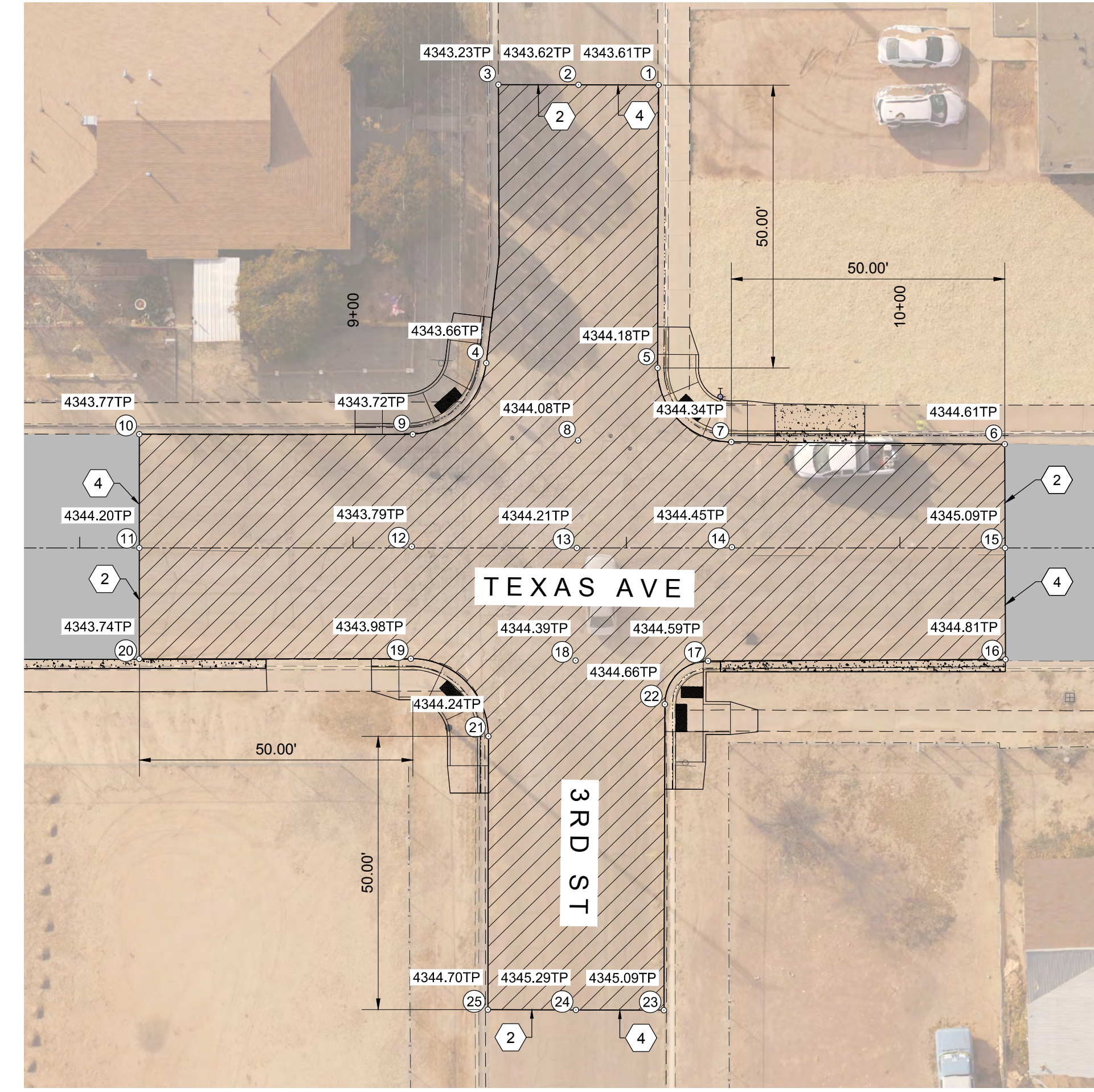
Public Works Bid No.:	2017-010
Drawn By:	OT
Designed By:	OT
Checked By:	SC
Approved By:	SC
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 2.0
Sheet	9 of 103
EN1701	

PT #	Northing	Easting
1	688221.76	1731099.59
2	688211.17	1731099.53
3	688200.45	1731099.48
4	688201.08	1731149.25
5	688222.23	1731149.59
6	688290.97	1731168.30
7	688241.40	1731168.93
8	688211.02	1731169.26
9	688180.64	1731169.59
10	688130.64	1731170.10
11	688130.71	1731190.64
12	688182.41	1731190.26
13	688212.12	1731189.85
14	688241.14	1731189.45
15	688291.23	1731188.94
16	688291.50	1731209.47
17	688240.87	1731209.97
18	688212.57	1731210.39
19	688184.27	1731210.81
20	688130.79	1731211.20
21	688201.85	1731229.74
22	688223.08	1731229.69
23	688223.84	1731279.64
24	688213.23	1731279.68
25	688202.64	1731279.71



GRADING PLAN - TEXAS AVENUE & 2ND
 FULL SCALE: 1:20 HALF SCALE: 1:40



GRADING PLAN - TEXAS AVENUE & 3RD
 FULL SCALE: 1:20 HALF SCALE: 1:40

PT #	Northing	Easting
1	688685.53	1731099.74
2	688670.89	1731099.88
3	688656.24	1731100.02
4	688654.62	1731150.96
5	688685.94	1731151.48
6	688749.58	1731164.72
7	688699.58	1731164.88
8	688671.56	1731164.94
9	688641.31	1731164.16
10	688591.31	1731164.70
11	688591.55	1731185.49
12	688641.37	1731184.68
13	688671.56	1731184.59
14	688699.90	1731184.14
15	688749.86	1731183.70
16	688750.16	1731204.09
17	688695.77	1731204.99
18	688671.56	1731205.19
19	688641.44	1731205.21
20	688591.78	1731205.80
21	688655.78	1731219.23
22	688687.99	1731213.01
23	688688.44	1731268.97
24	688672.34	1731269.10
25	688656.25	1731269.23

CONSTRUCTION PLAN KEY NOTES:

- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB AND GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVER HEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED & REPLACED.
- ADJUST VALVE BOX TO GRADE.
- SAWCUT AND BEGIN MILL-INLAY 2' INTO EXISTING INTERSECTION HMA

LEGEND

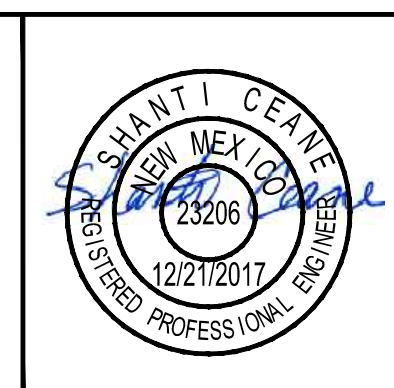
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED

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Street Maintenance Program FY 2017
TEXAS AVENUE INTERSECTION
RECONSTRUCTION 2ND STREET & 3RD STREET
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

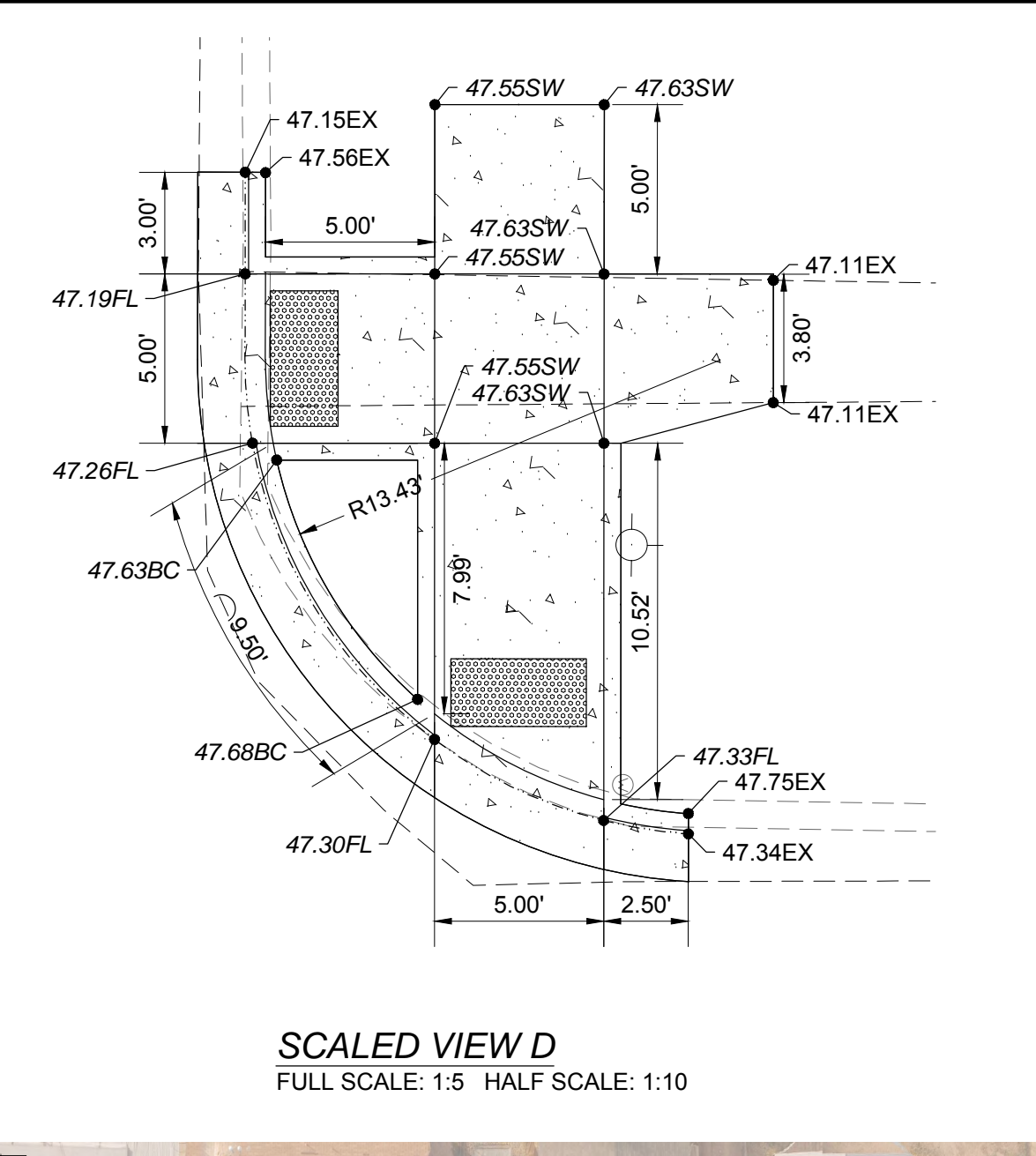
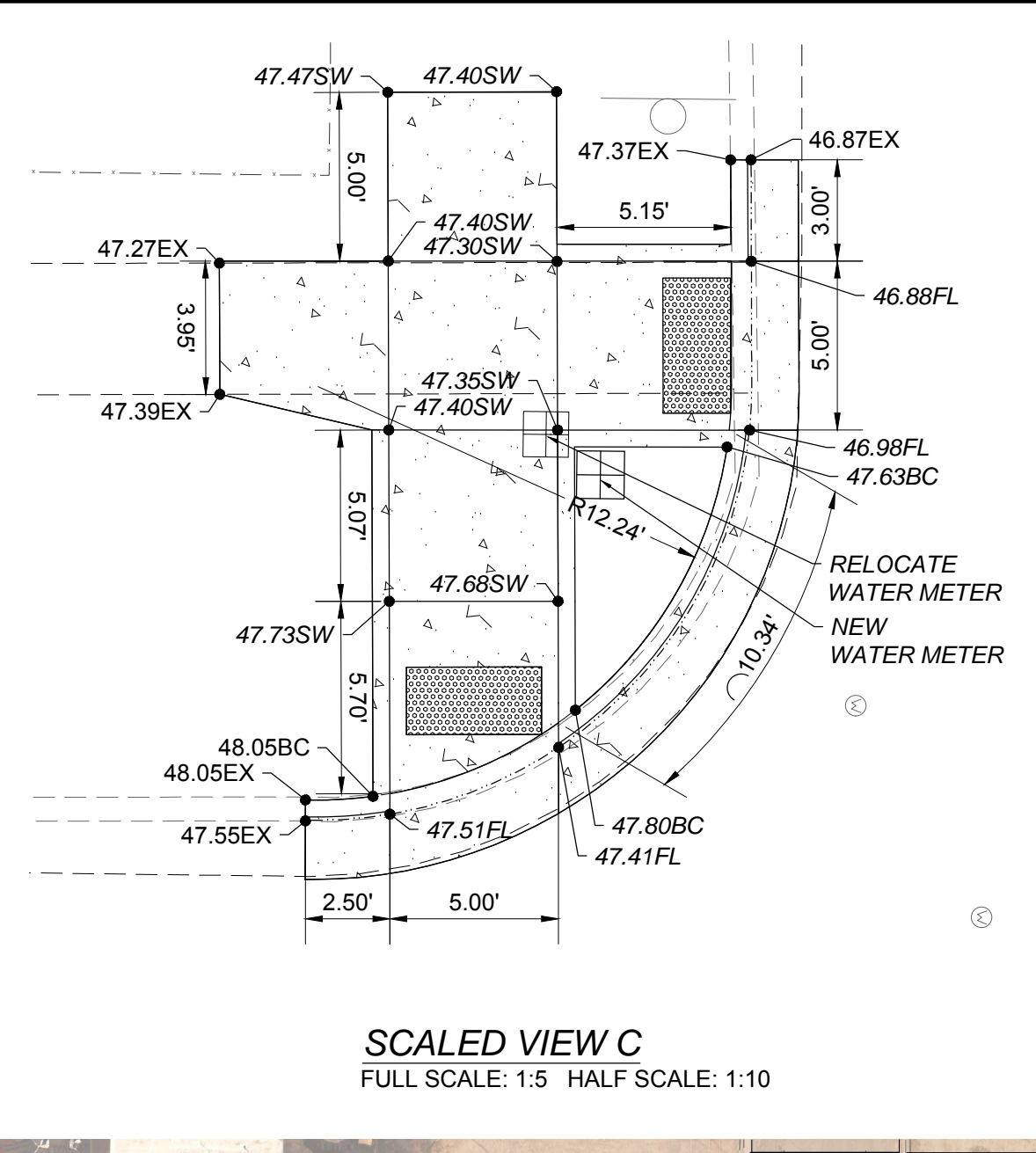
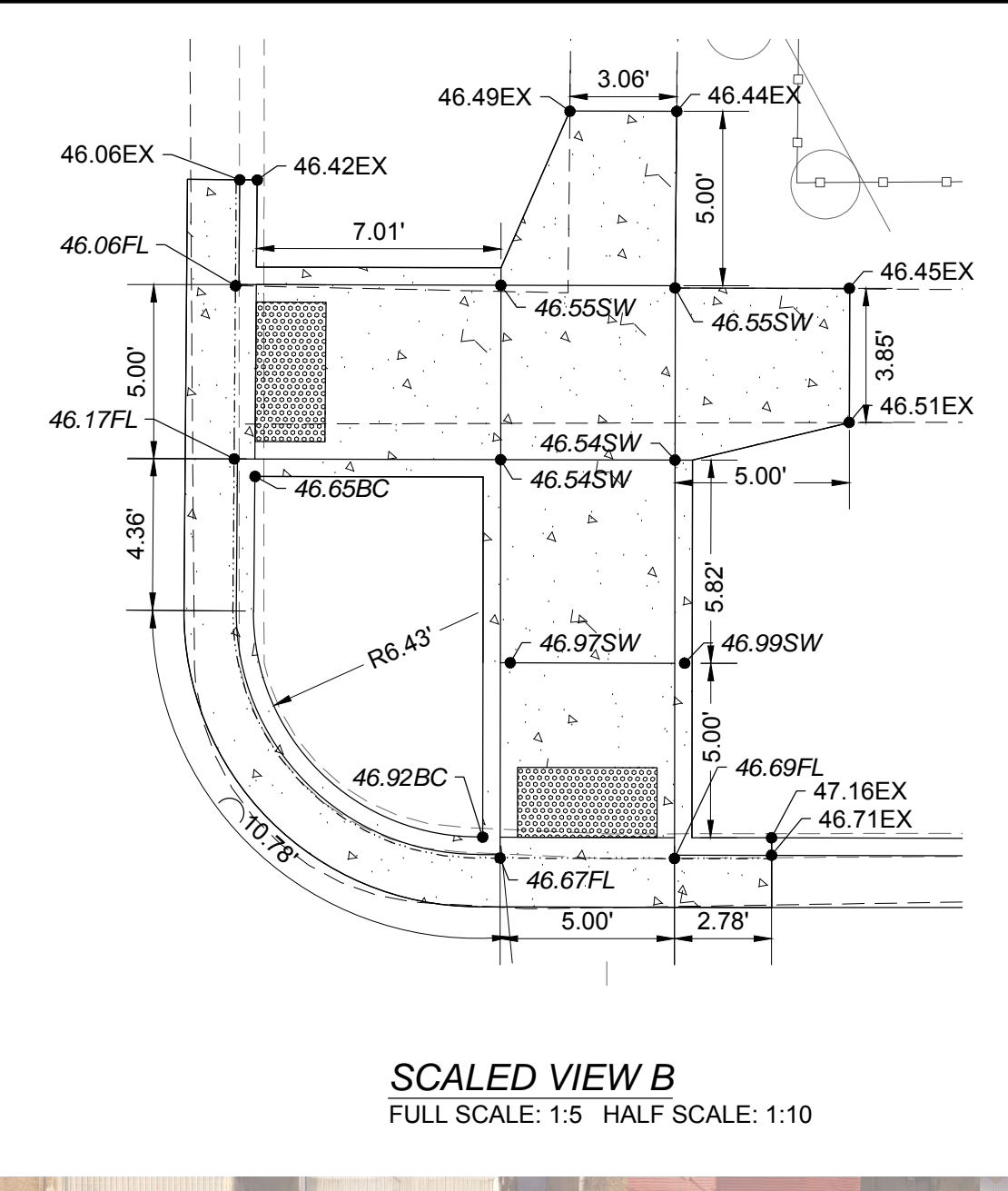
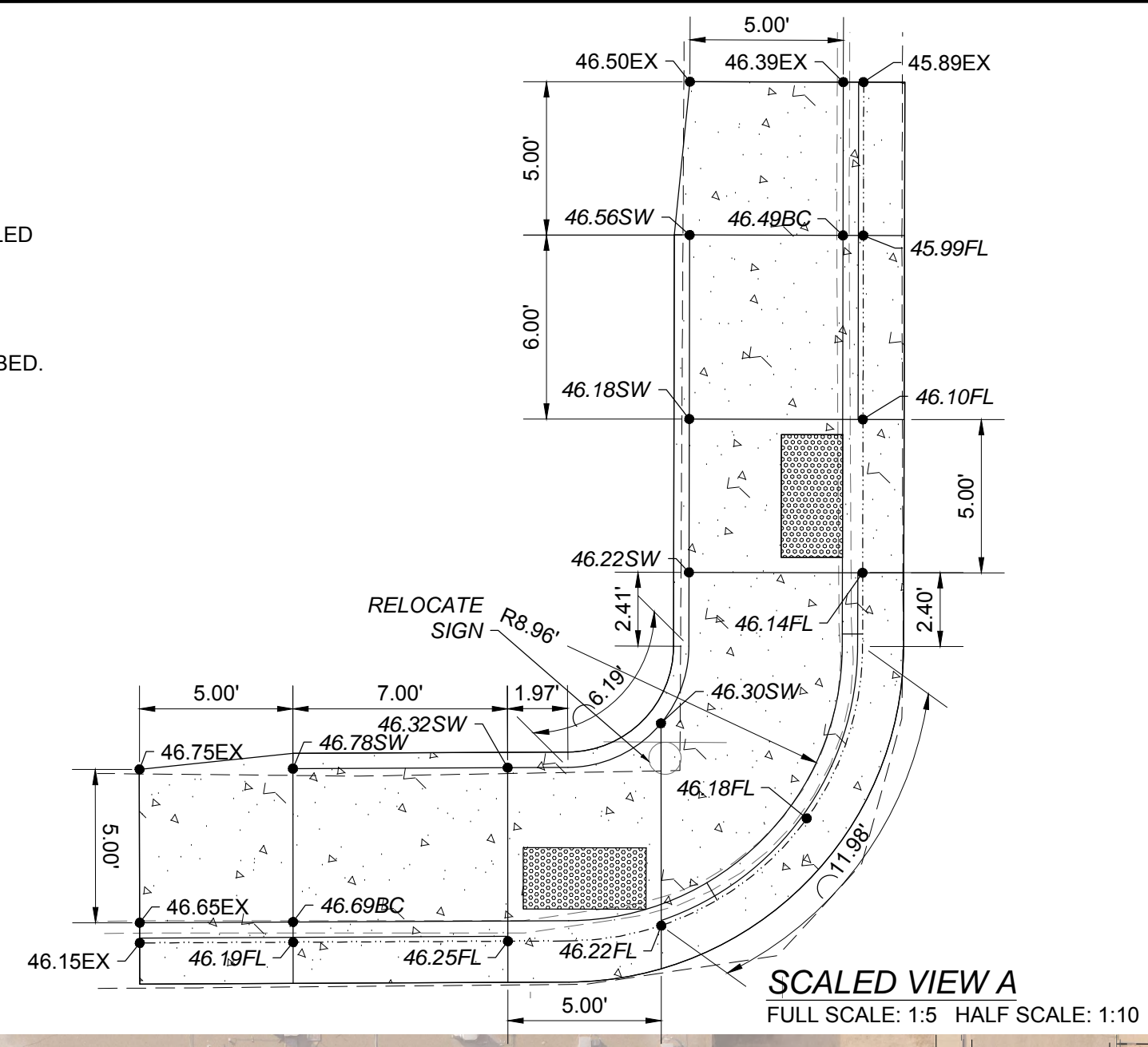


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Public Works Bid No.:	2017-010	Sheet No.:	RC 2.1
Drawn By:	OT	Designed By:	OT
Checked By:	SC	Approved By:	SC
Scale: Horiz.:	1" = 20'	Vert.:	n/a
			Sheet 10 of 103
			EN1701

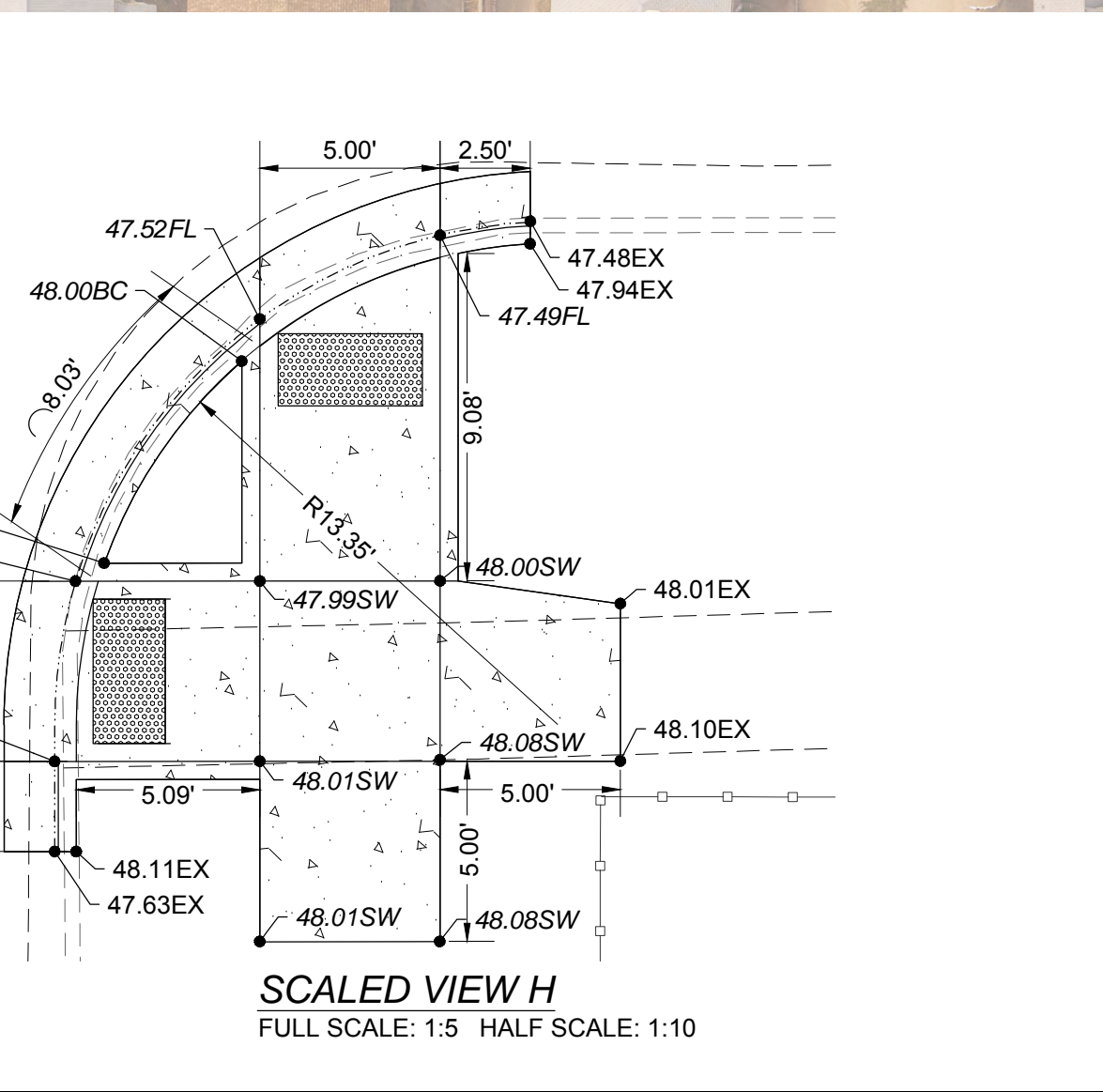
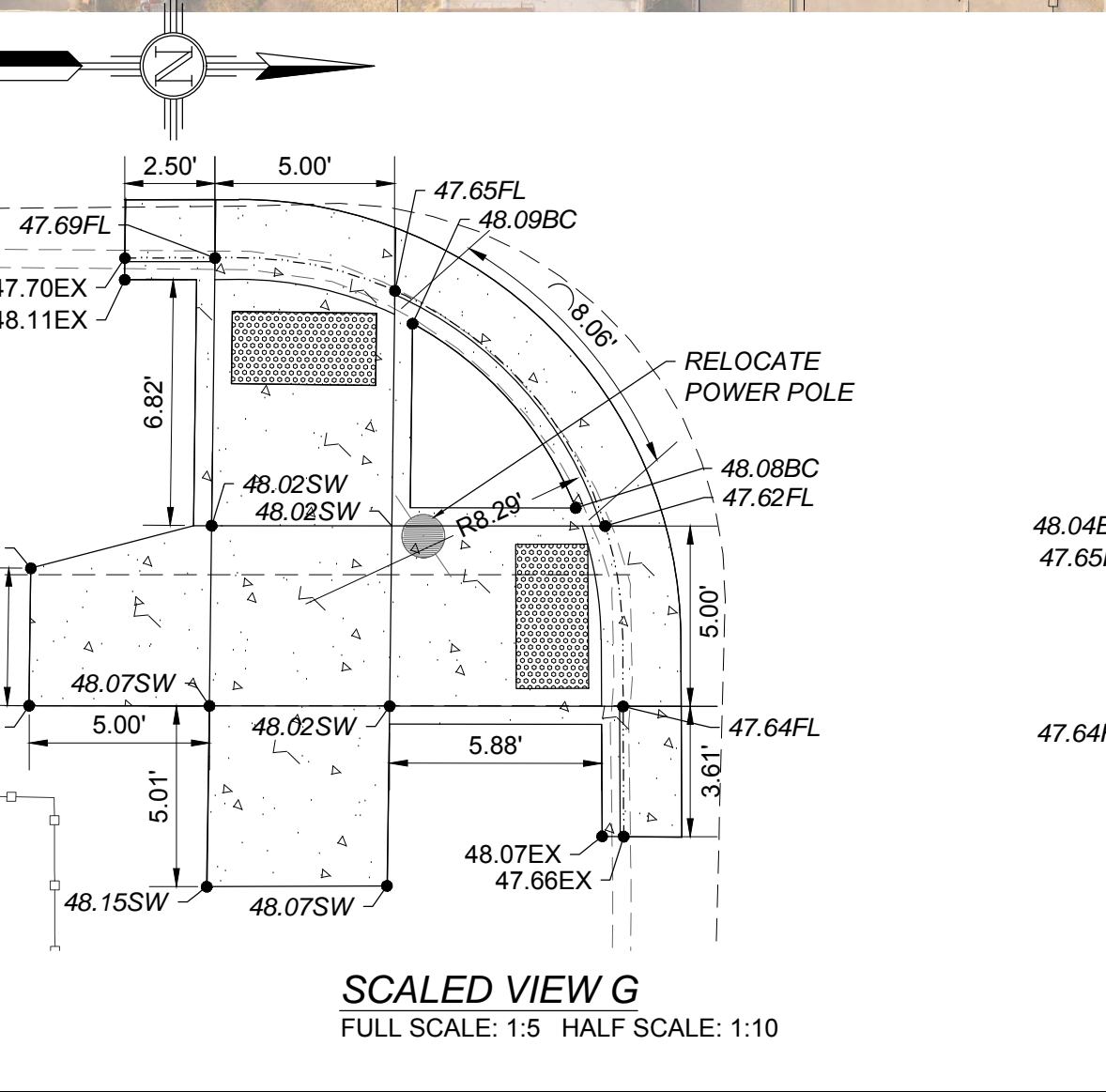
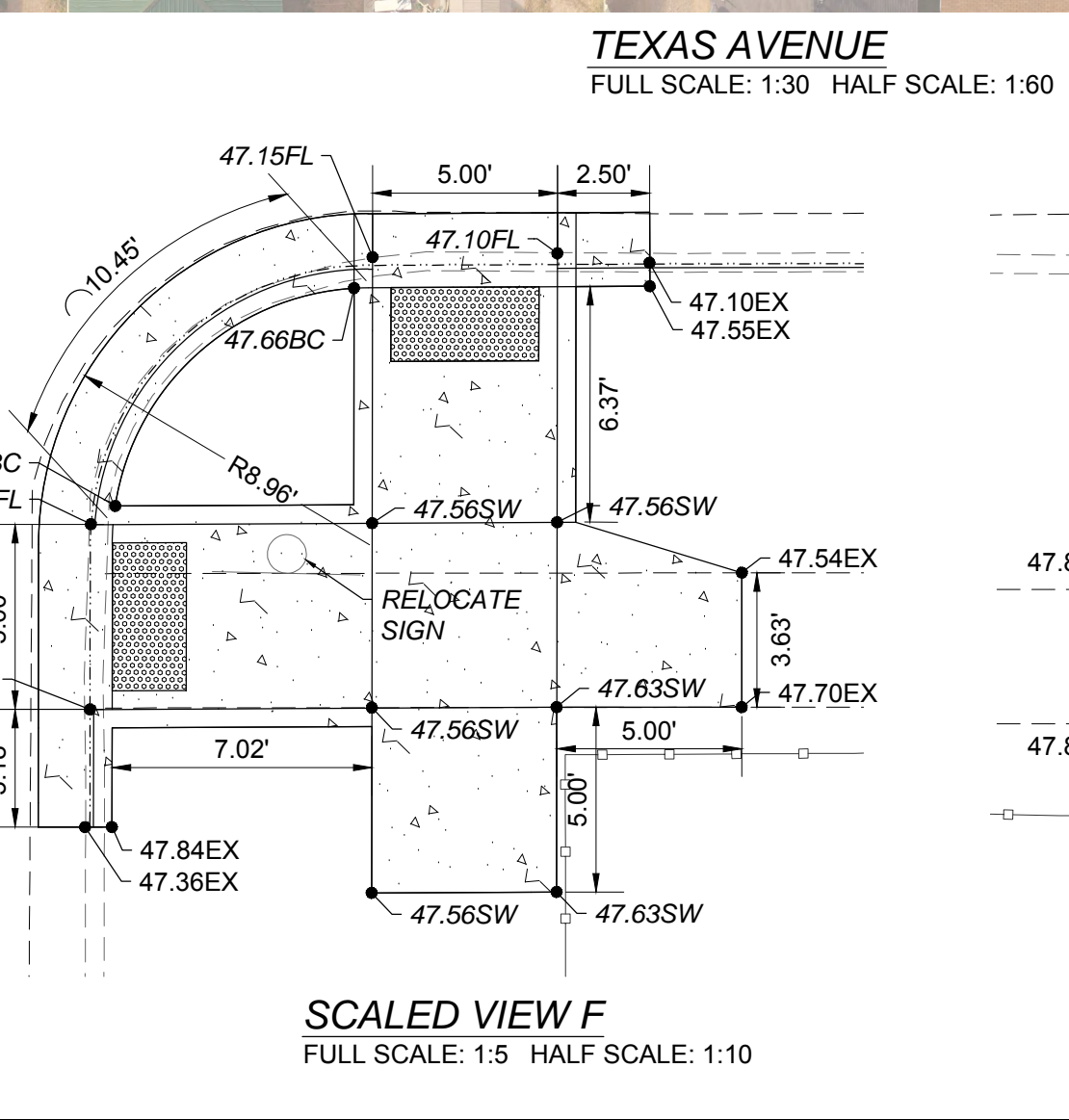
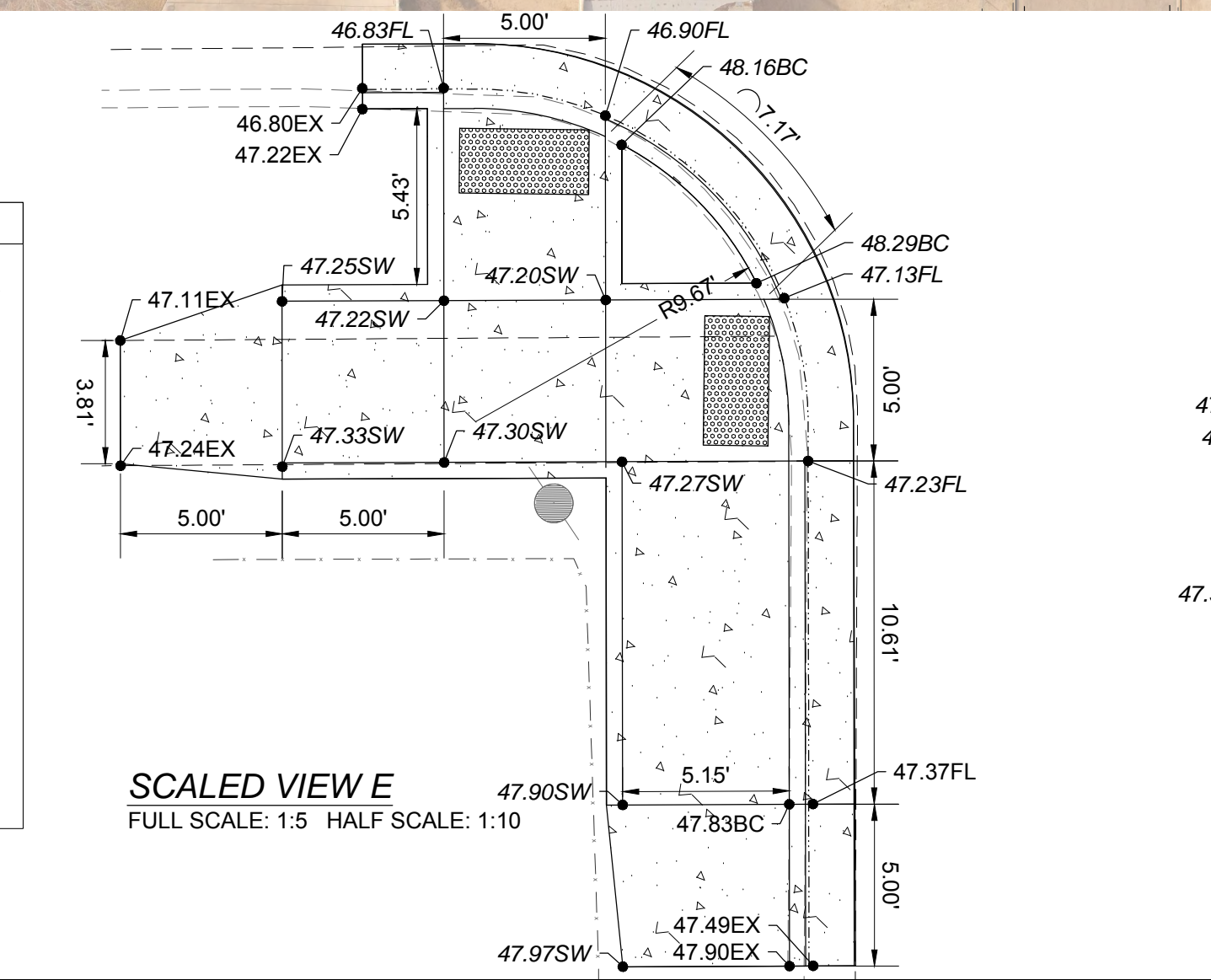
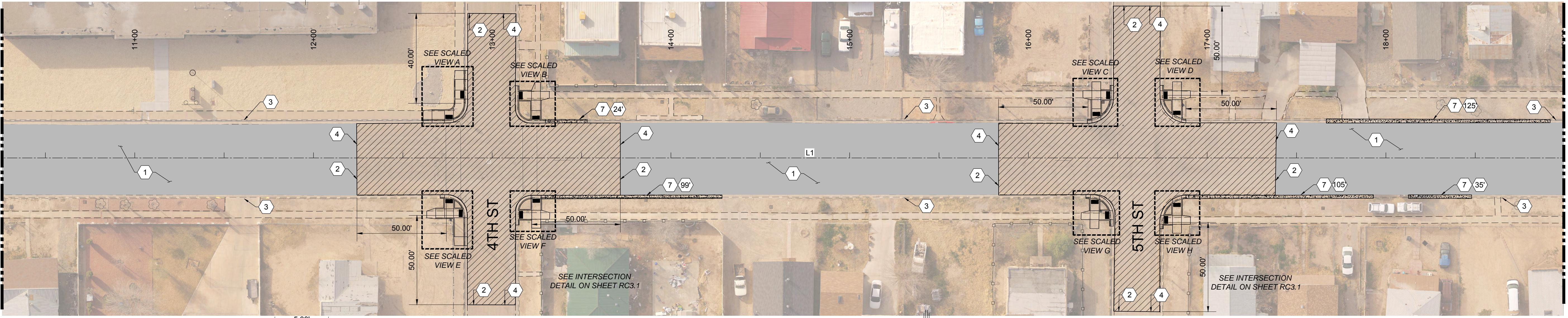
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB AND GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVER HEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED & REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY 2' INTO EXISTING INTERSECTION HMA



MATCH LINE STA 10+30 SEE SHEET RC 2.0

MATCH LINE STA 19+00 SEE SHEET RC 4.0



LEGEND

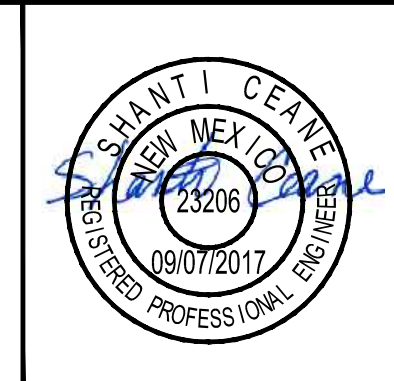
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

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Street Maintenance Program FY 2017
TEXAS AVENUE ROAD CONSTRUCTION PLAN
STATION 10+30 TO 19+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

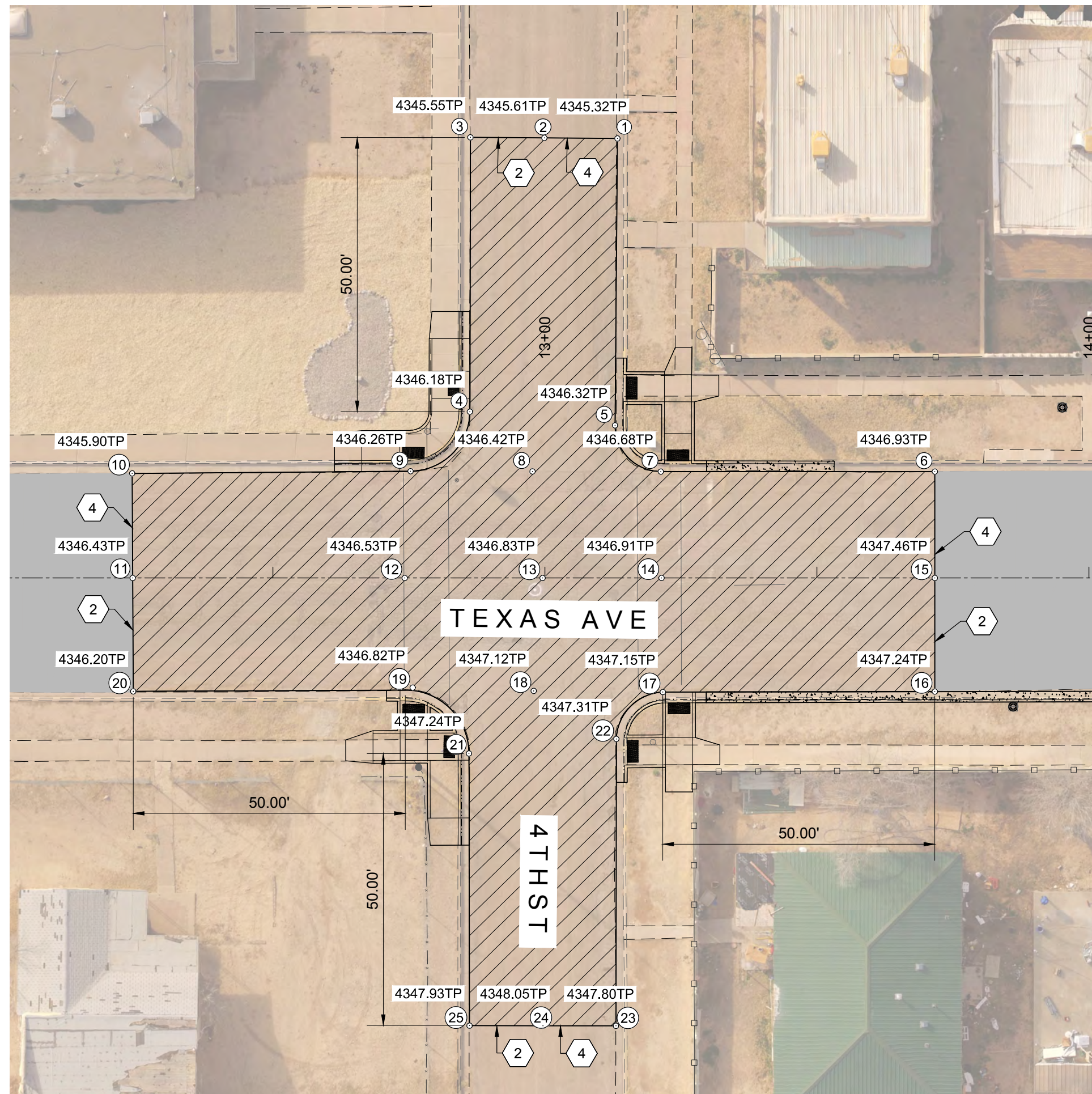


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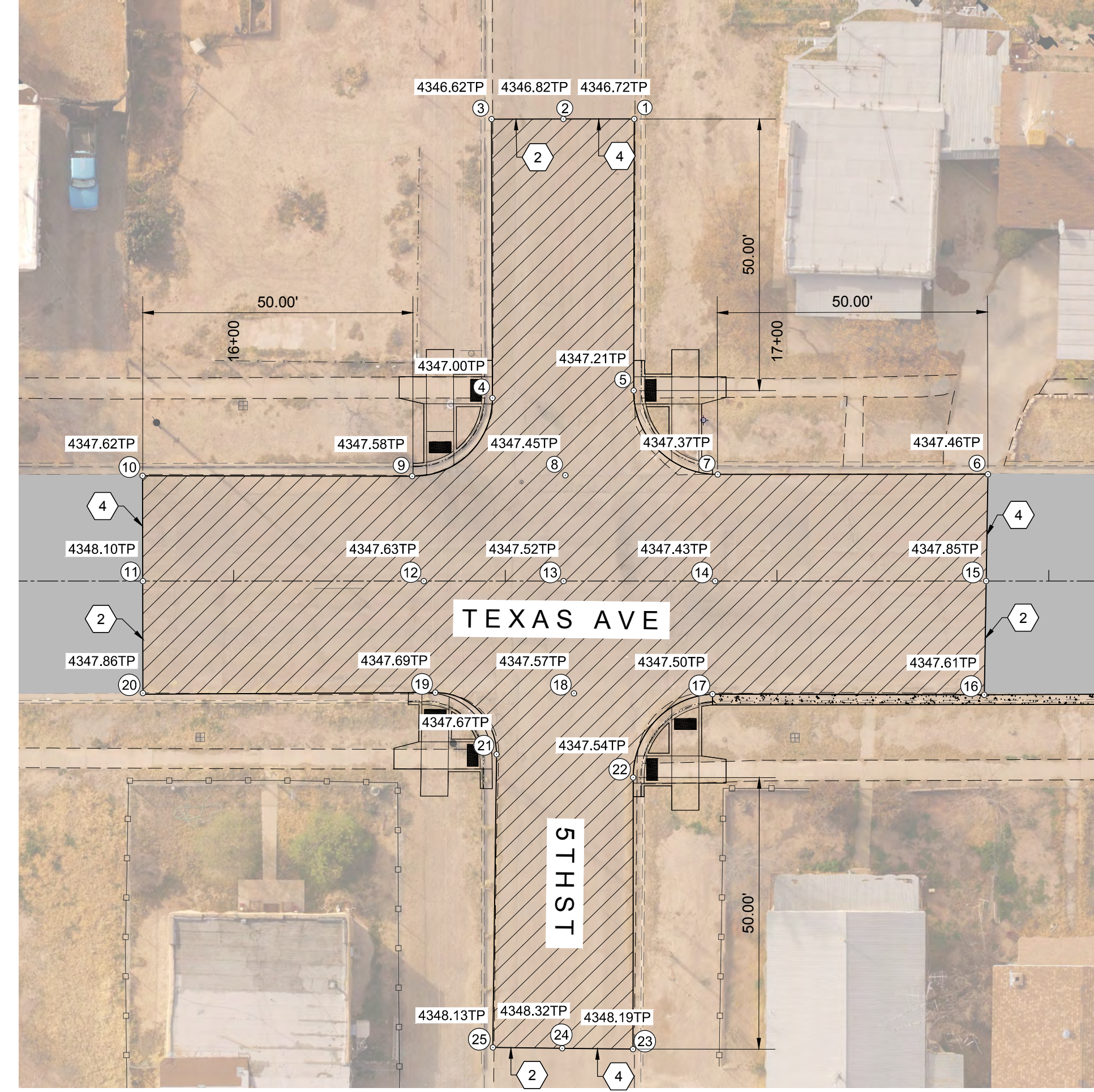
Public Works Bid No.:	2017-010
Drawn By:	OT
Designed By:	OT
Checked By:	SC
Approved By:	SC
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 3.0
Sheet	11 of 103
EN1701	

PT #	Northing	Easting
1	689043.02	1731099.59
2	689029.58	1731099.64
3	689016.00	1731099.69
4	689016.48	1731150.09
5	689043.18	1731152.30
6	689102.06	1731160.11
7	689051.69	1731160.69
8	689028.11	1731160.93
9	689005.70	1731161.15
10	688954.53	1731162.13
11	688954.85	1731181.35
12	689004.84	1731180.78
13	689030.18	1731180.49
14	689052.05	1731180.23
15	689102.28	1731179.66
16	689102.52	1731200.53
17	689052.53	1731201.19
18	689028.80	1731201.25
19	689005.18	1731201.37
20	688955.18	1731202.18
21	689017.03	1731212.89
22	689044.08	1731209.91
23	689044.61	1731262.61
24	689031.20	1731262.75
25	689017.70	1731262.89



GRADING PLAN - TEXAS AVENUE & 4TH
FULL SCALE: 1:20 HALF SCALE: 1:40



GRADING PLAN - TEXAS AVENUE & 5TH
FULL SCALE: 1:20 HALF SCALE: 1:40

PT #	Northing	Easting
1	689403.34	1731091.14
2	689390.29	1731091.31
3	689377.09	1731091.47
4	689377.83	1731142.81
5	689403.81	1731141.14
6	689469.16	1731155.81
7	689419.44	1731156.40
8	689391.41	1731156.88
9	689363.22	1731157.36
10	689313.62	1731157.86
11	689313.90	1731177.24
12	689365.59	1731176.65
13	689391.30	1731176.36
14	689419.20	1731176.04
15	689469.05	1731175.45
16	689468.95	1731196.40
17	689418.95	1731196.84
18	689393.45	1731196.99
19	689367.95	1731197.14
20	689314.14	1731197.85
21	689379.34	1731208.38
22	689404.53	1731212.36
23	689405.06	1731262.35
24	689392.03	1731262.34
25	689379.28	1731262.33

CONSTRUCTION PLAN KEY NOTES:

- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
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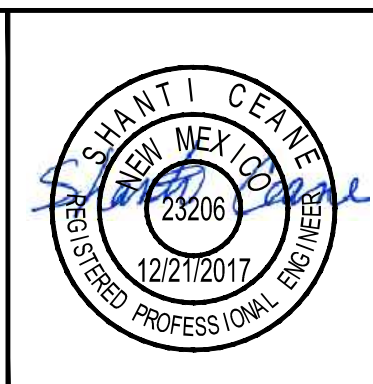
LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

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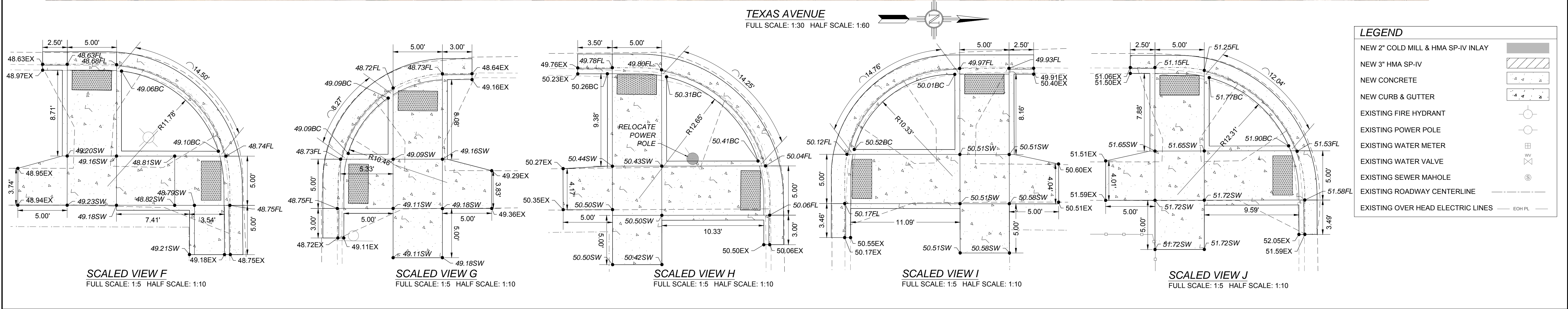
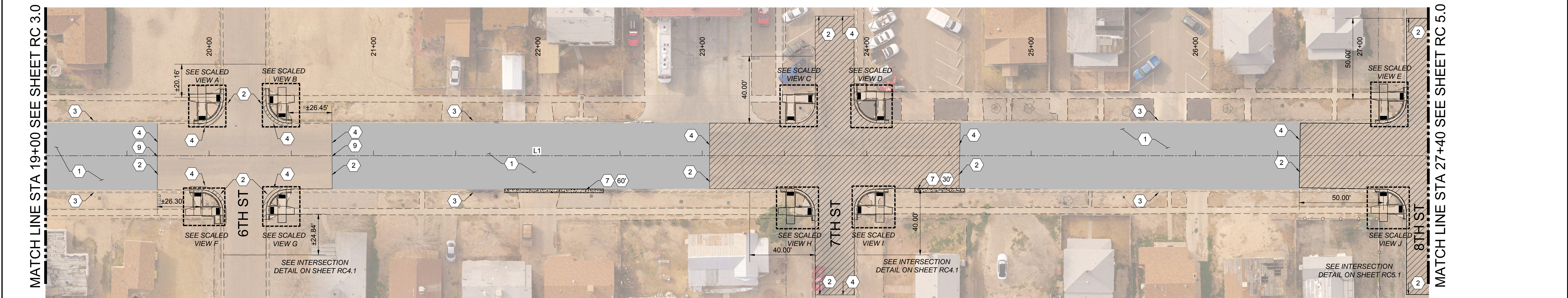
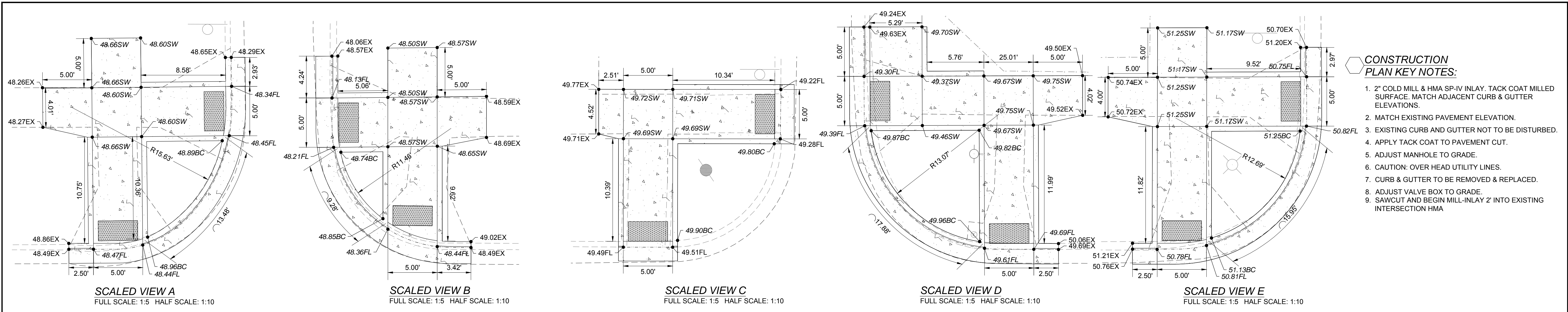
Street Maintenance Program FY 2017
TEXAS AVENUE INTERSECTION
RECONSTRUCTION 4TH STREET & 5TH STREET
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



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Public Works Bid No.:	2017-010
Drawn By:	OT
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Scale: Horiz.:	1" = 20'
Vert.:	n/a

Sheet No.:	RC 3.1
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EN1701	

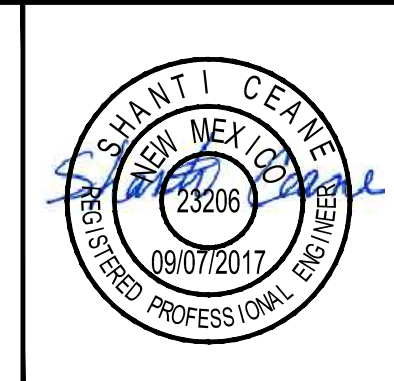


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 Professional Resources for Damage Prevention
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Street Maintenance Program FY 2017
TEXAS AVENUE ROAD CONSTRUCTION PLAN
STATION 19+00 TO 27+40
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



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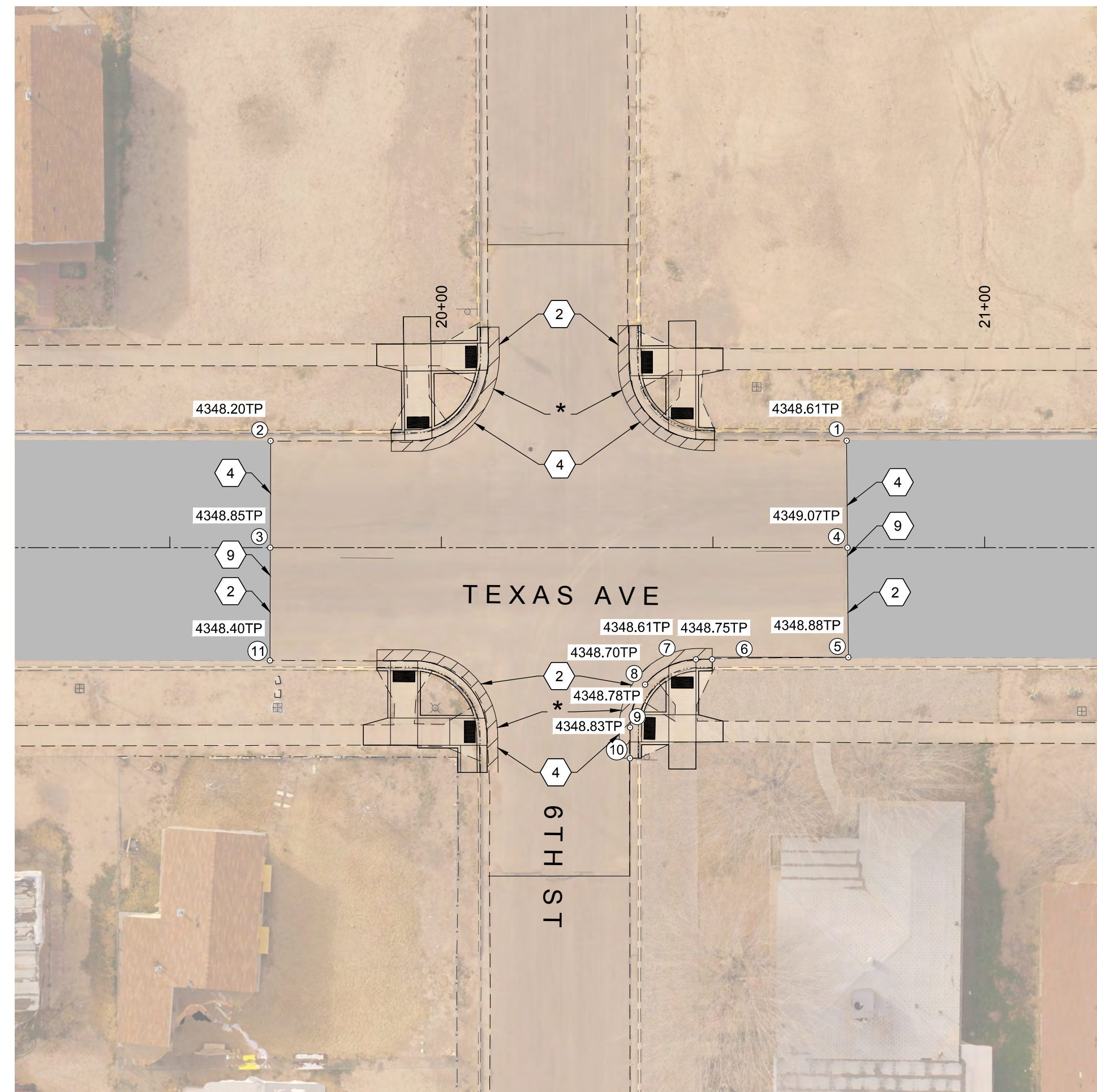
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Drawn By:	OT
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Sheet No.: **RC 4.0**
 Sheet 13 of 103
 EN1701

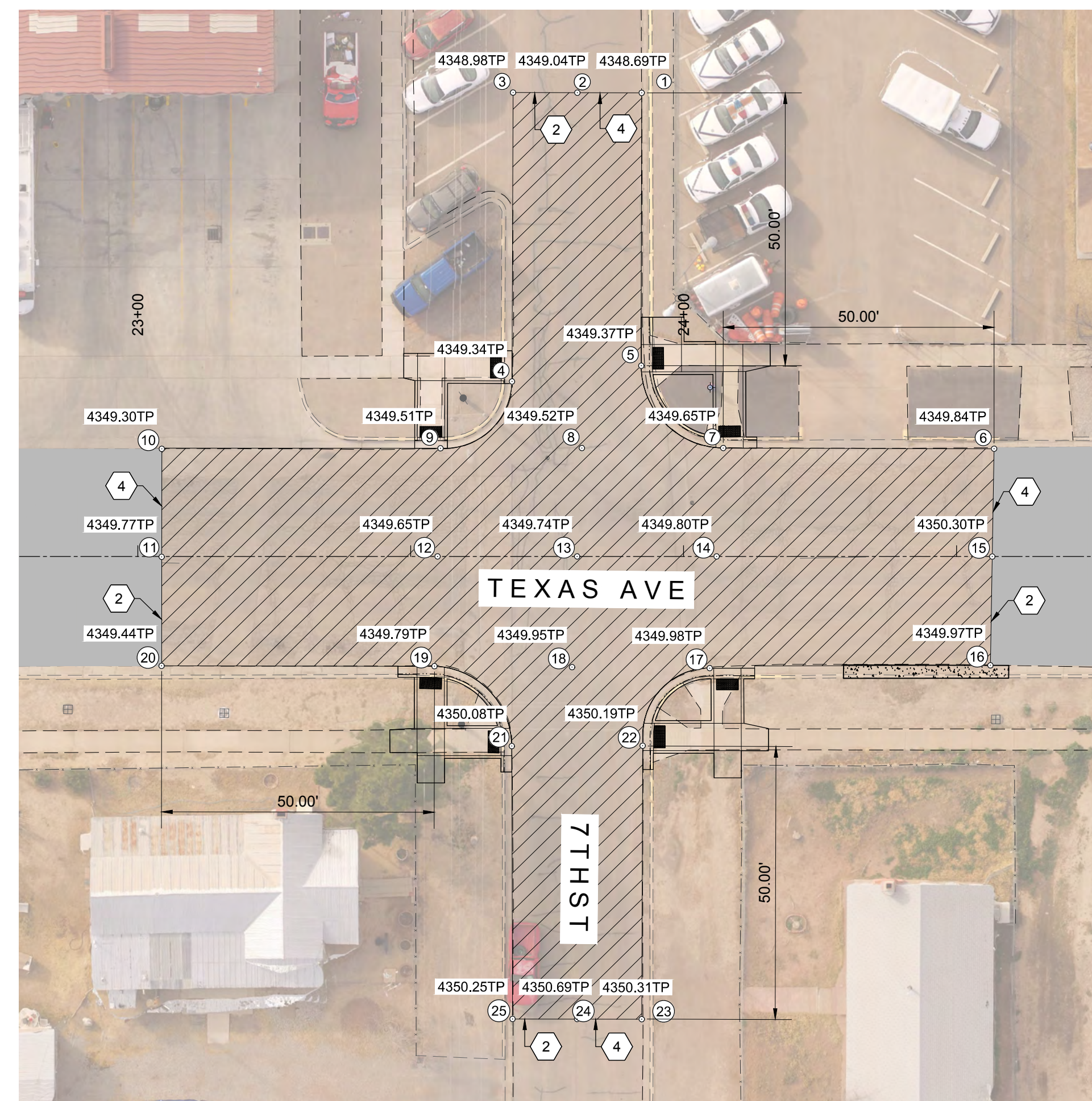
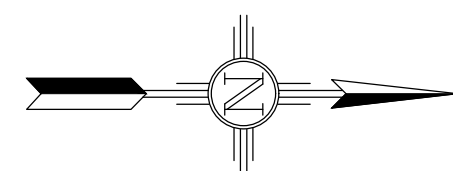
PT #	Northing	Easting
1	689804.92	1731151.95
2	689698.88	1731153.20
3	689699.05	1731172.84
4	689805.30	1731171.62
5	689805.69	1731191.80
6	689780.62	1731192.46
7	689777.63	1731192.51
8	689768.33	1731197.24
9	689765.66	1731205.18
10	689765.70	1731210.85
11	689699.22	1731193.60

NOTE:

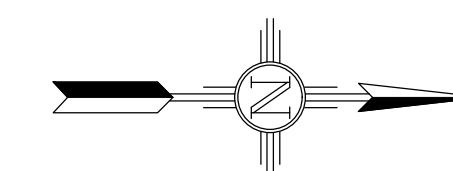
* 2" PATCH WITH NEW 3" HMA SP-IV AT NEW CURB AND EXISTING PAVEMENT



NO GRADING - TEXAS AVENUE & 6TH
FULL SCALE: 1:20 HALF SCALE: 1:40



GRADING PLAN - TEXAS AVENUE & 7TH
FULL SCALE: 1:20 HALF SCALE: 1:40



PT #	Northing	Easting
1	690121.88	1731083.02
2	690110.09	1731083.13
3	690098.31	1731083.23
4	690098.72	1731136.17
5	690122.38	1731133.02
6	690187.19	1731147.49
7	690137.57	1731147.93
8	690111.67	1731148.22
9	690085.77	1731148.57
10	690034.71	1731149.25
11	690034.91	1731169.04
12	690085.45	1731168.39
13	690111.03	1731168.10
14	690136.57	1731167.81
15	690187.08	1731167.25
16	690186.97	1731187.18
17	690135.54	1731188.28
18	690110.33	1731188.39
19	690085.12	1731188.51
20	690035.12	1731189.02
21	690099.45	1731202.99
22	690123.43	1731202.65
23	690123.83	1731252.76
24	690111.99	1731252.86
25	690100.16	1731252.98

CONSTRUCTION PLAN KEY NOTES:

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- SAWCUT AND BEGIN MILL-INLAY 2" INTO EXISTING INTERSECTION HMA

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

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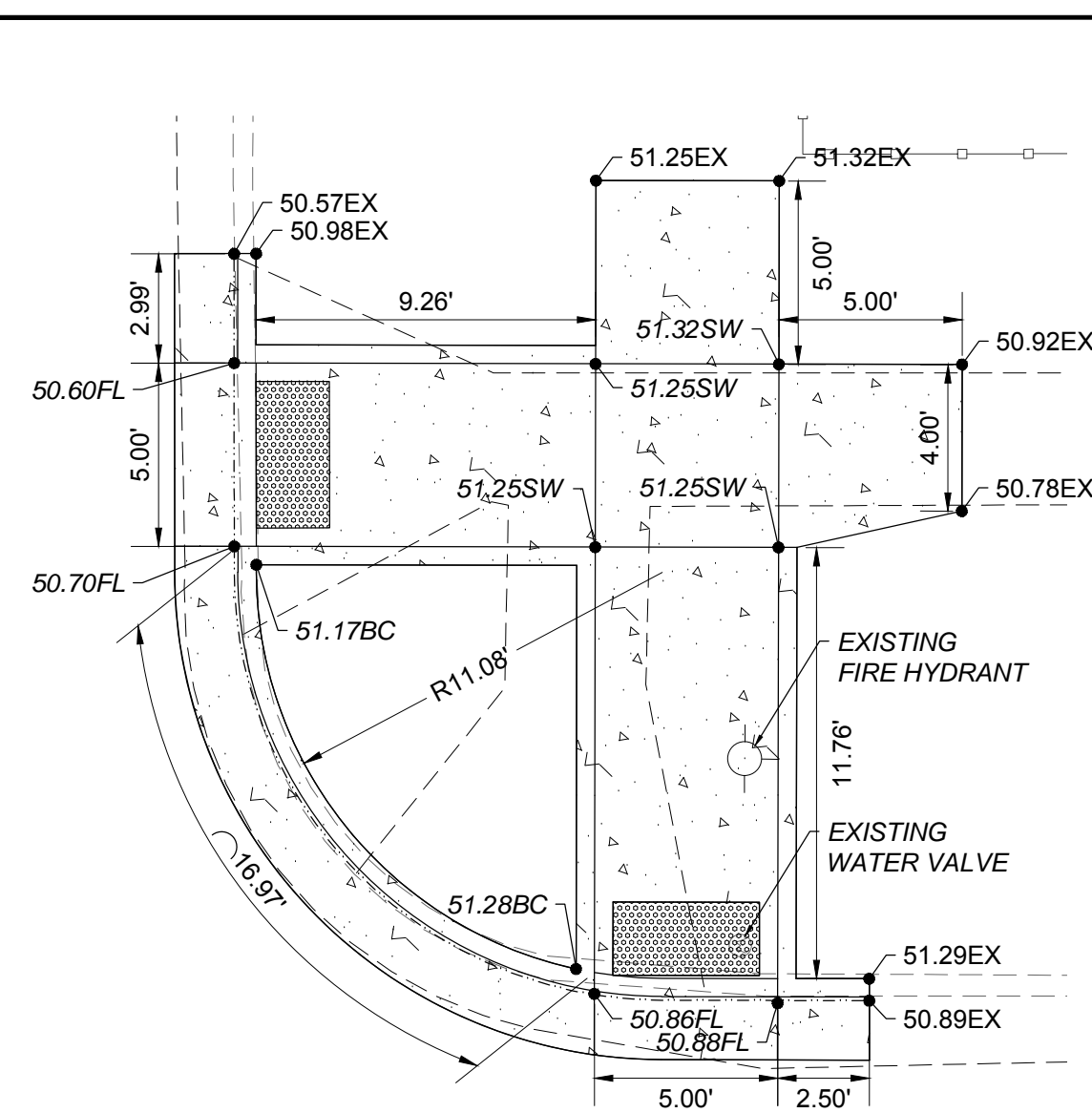
Street Maintenance Program FY 2017

TEXAS AVENUE INTERSECTION RECONSTRUCTION 6TH STREET & 7TH STREET

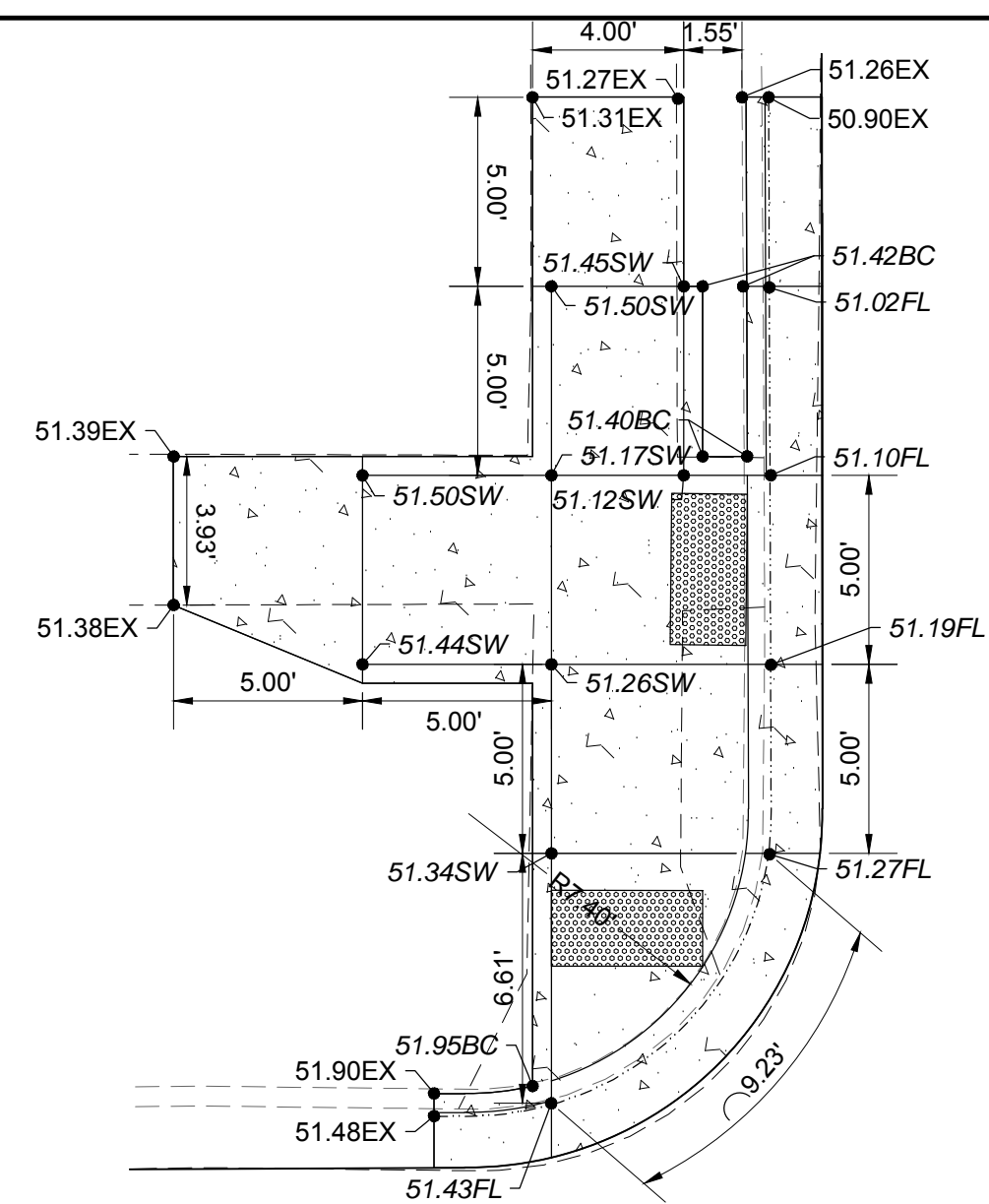
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



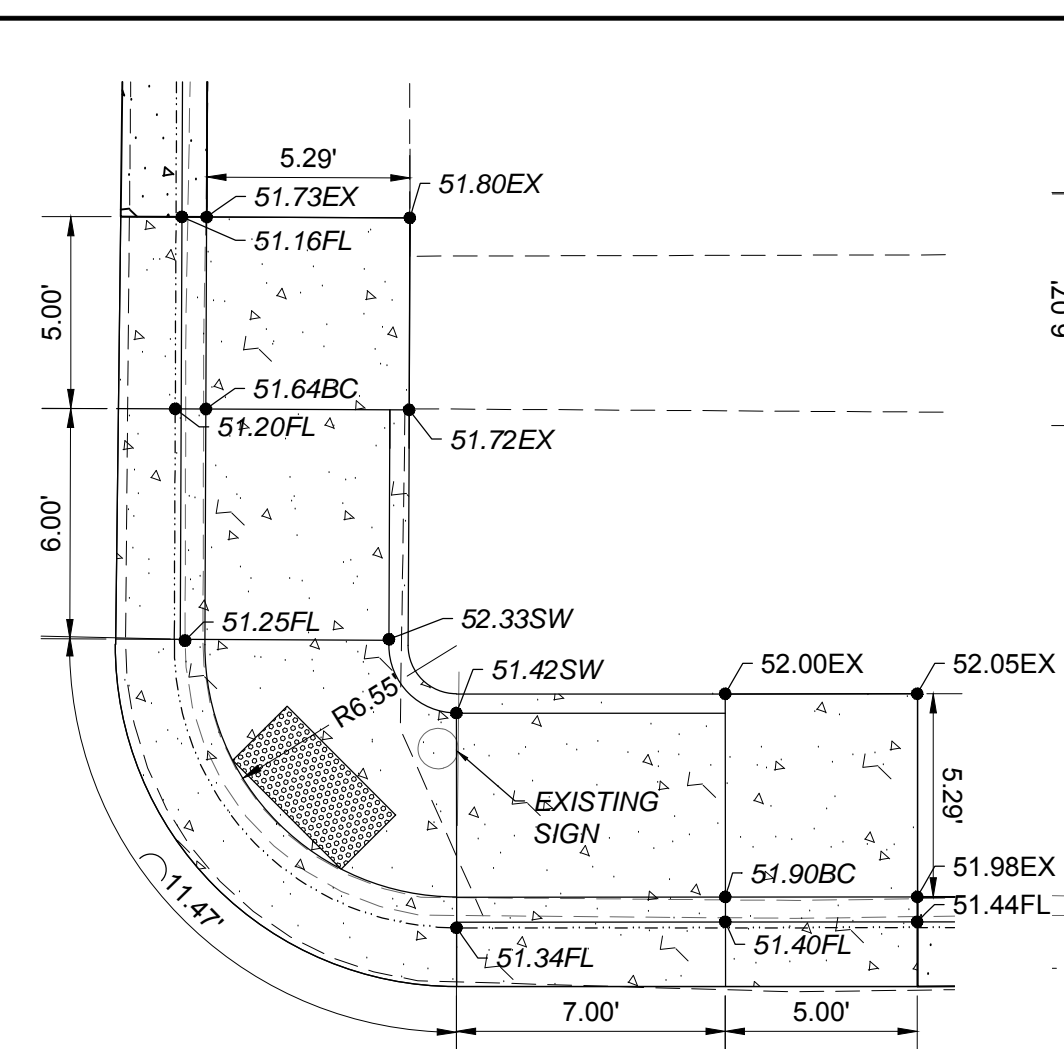
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Drawn By:	OT	Designed By:	OT
Checked By:	SC	Approved By:	SC
Scale: Horiz.:	1" = 20'	Vert.:	n/a
			Sheet 14 of 103
			EN1701



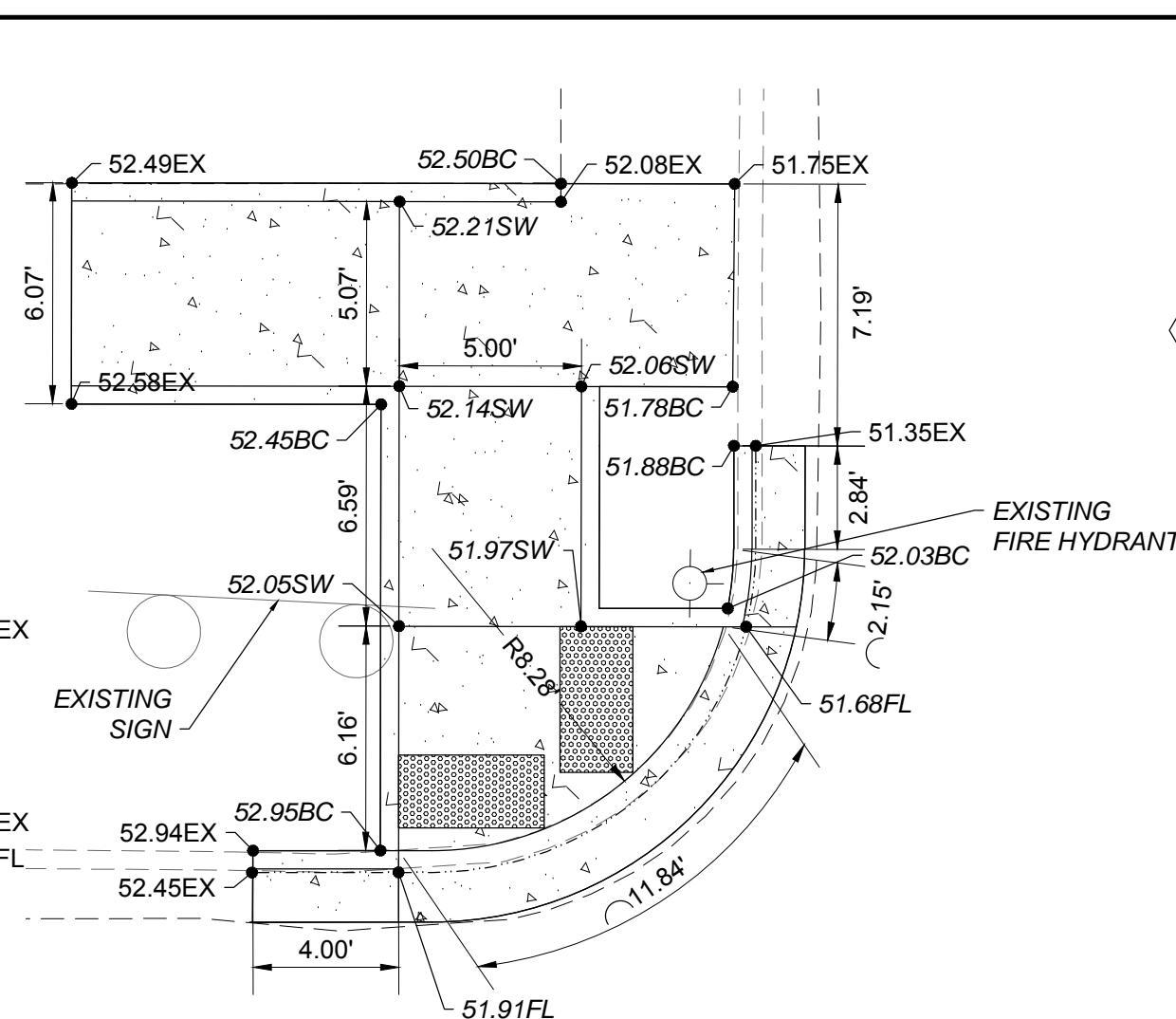
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FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE: 1:10



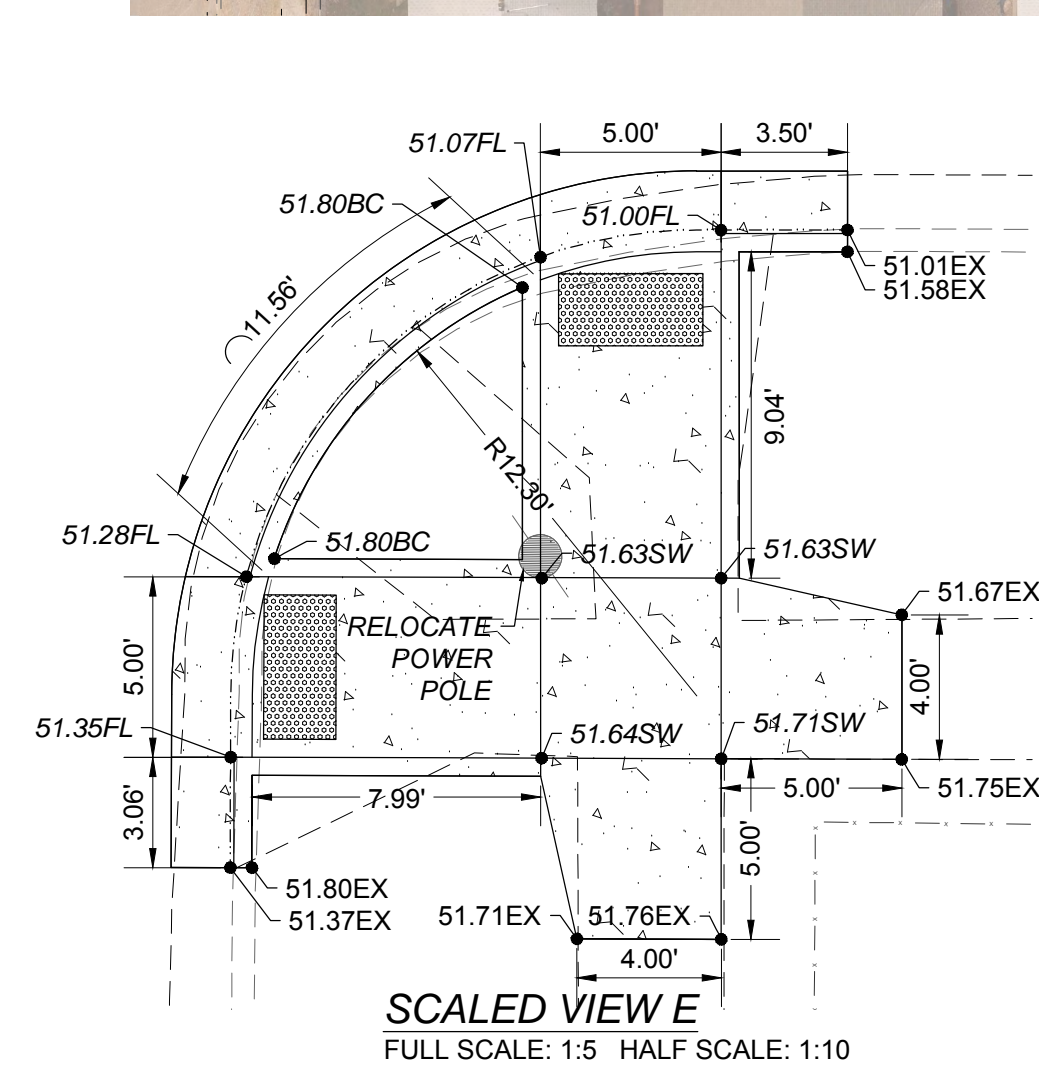
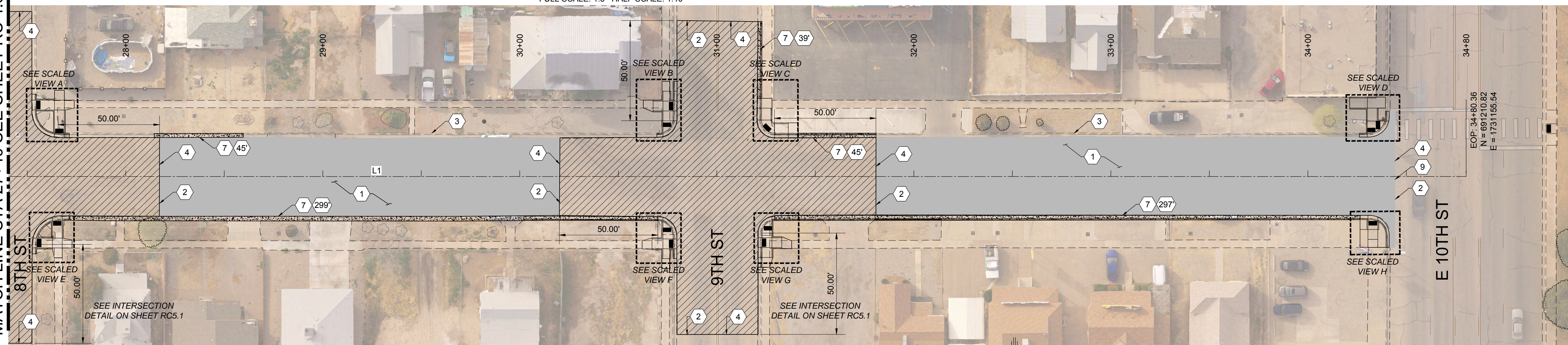
SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE: 1:10



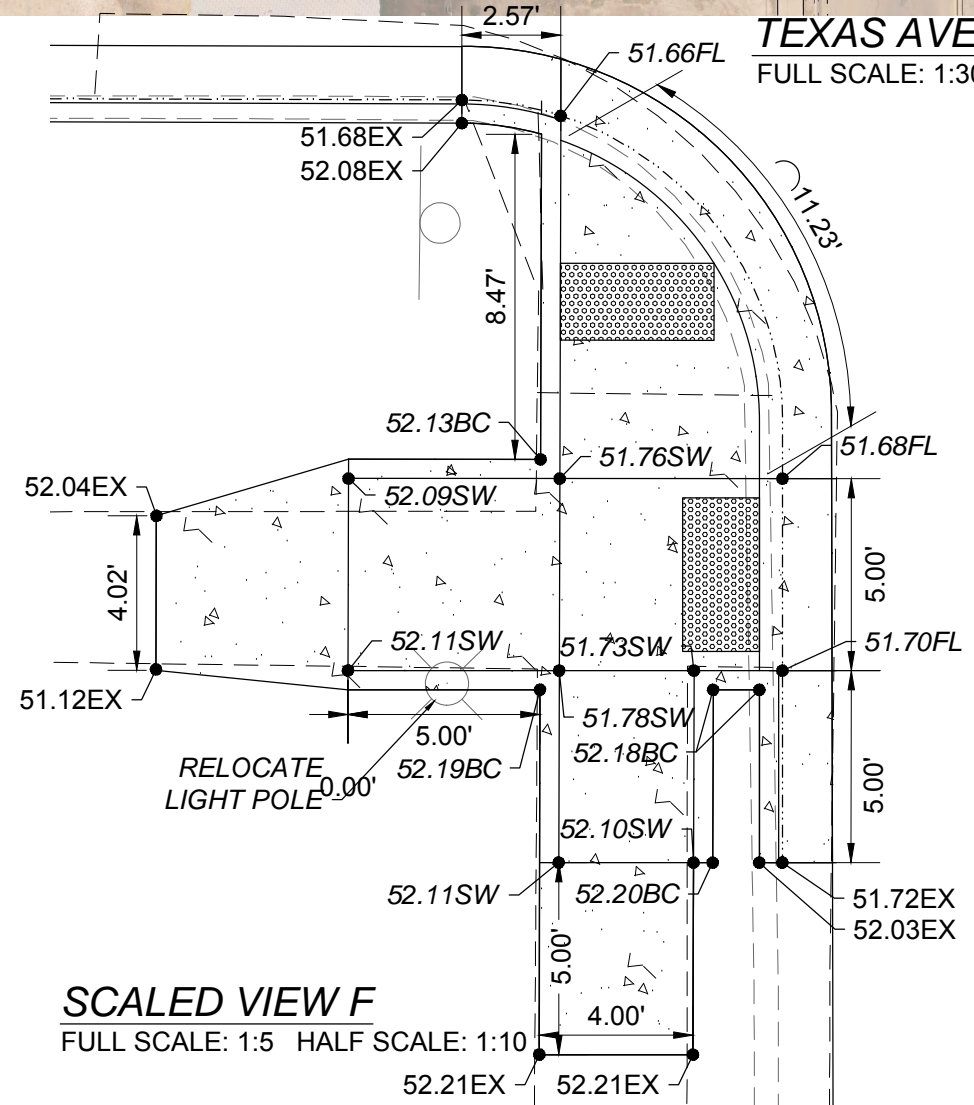
SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE: 1:10

- CONSTRUCTION PLAN KEY NOTES:**
- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
 - MATCH EXISTING PAVEMENT ELEVATION.
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 - ADJUST VALVE BOX TO GRADE.
 - SAWCUT AND BEGIN MILL-INLAY 2' INTO EXISTING INTERSECTION HMA

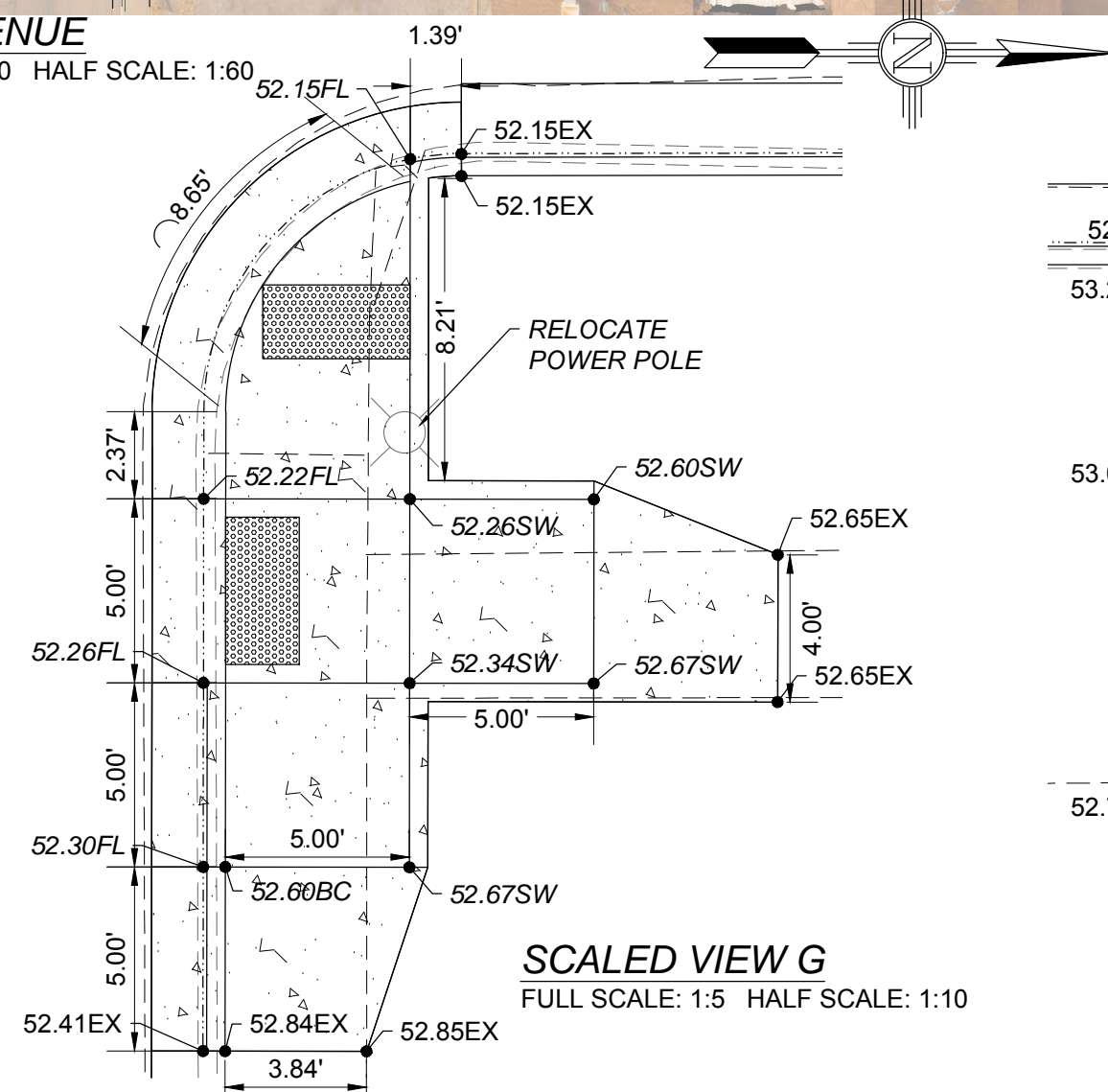
MATCH LINE STA 27+40 SEE SHEET RC.4.0



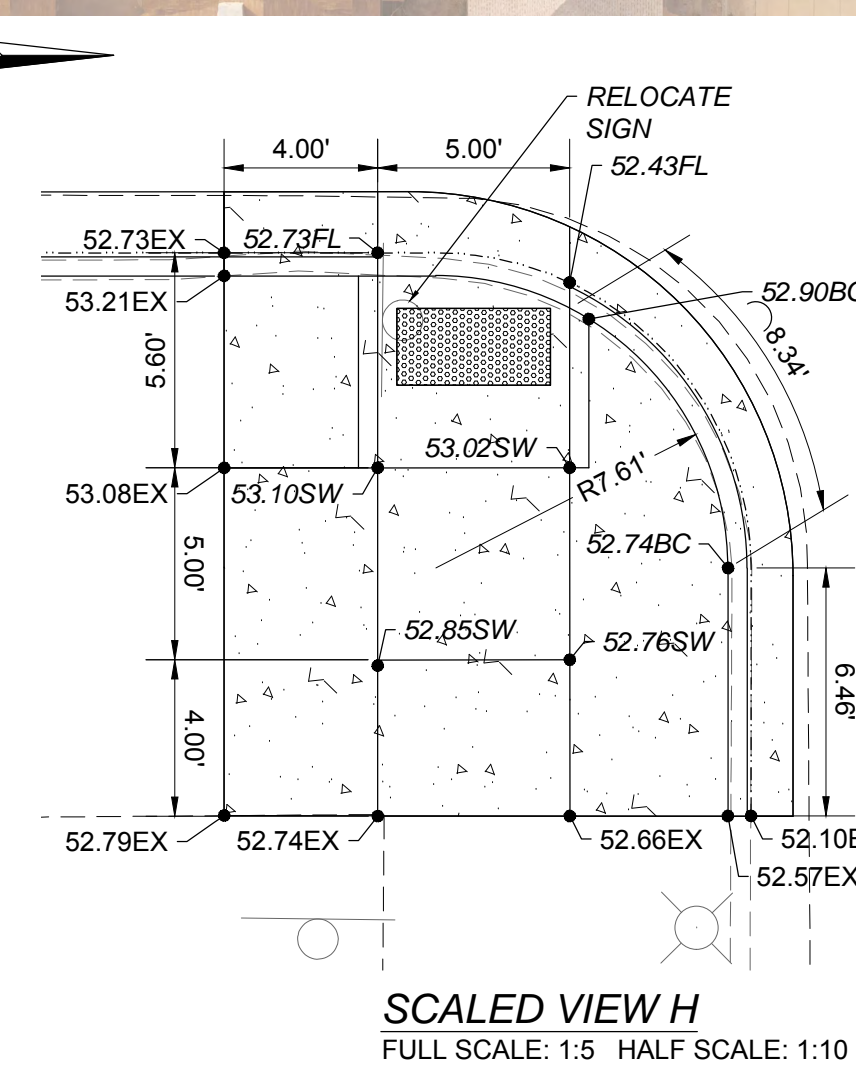
SCALED VIEW E
FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW F
FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW G
FULL SCALE: 1:5 HALF SCALE: 1:10



SCALED VIEW H
FULL SCALE: 1:5 HALF SCALE: 1:10

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED

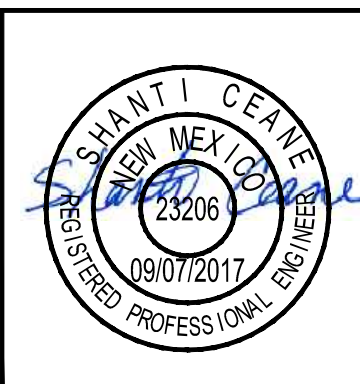
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

TEXAS AVENUE ROAD CONSTRUCTION PLAN STATION 27+40 TO 34+80.36

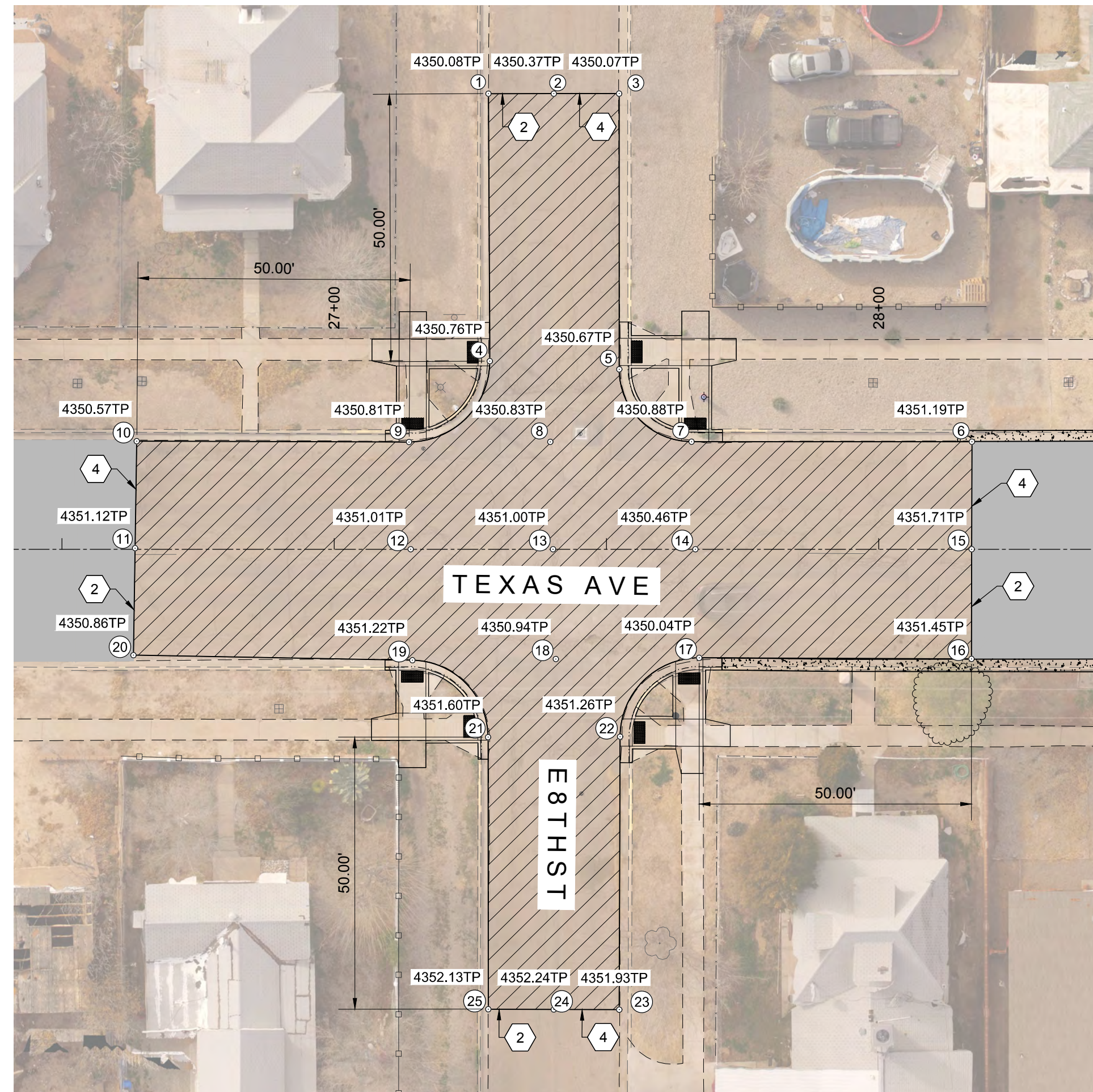
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



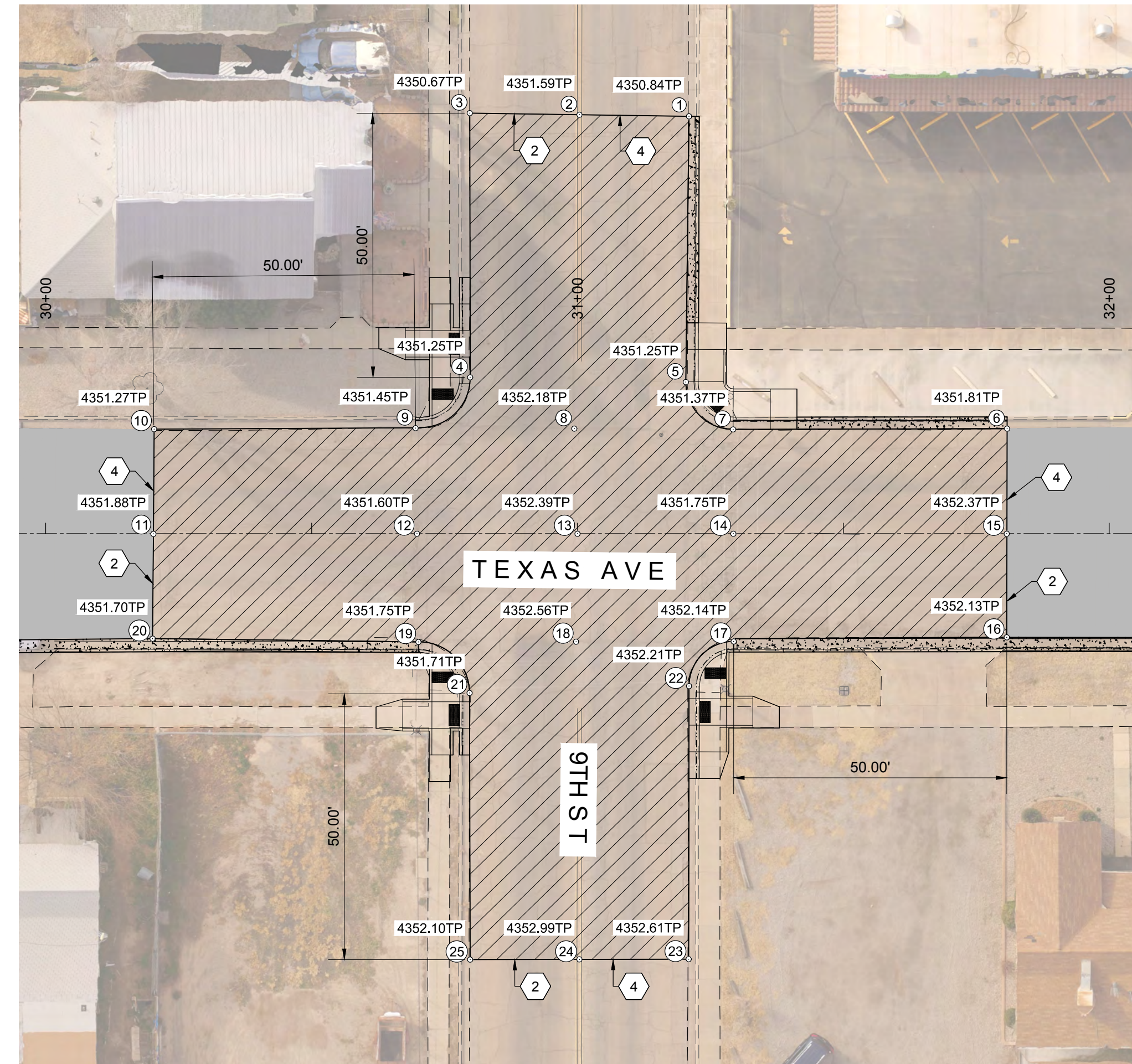
OEI Ocean Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010	Sheet No.:	RC 5.0
Drawn By:	OT	Designed By:	OT
Checked By:	SC	Approved By:	SC
Scale:	Horiz.: VARIES	Vert.:	n/a

PT #	Northing	Easting
1	690457.88	1731080.45
2	690469.88	1731080.31
3	690481.88	1731080.17
4	690458.70	1731129.59
5	690482.48	1731130.82
6	690547.39	1731143.38
7	690495.91	1731143.96
8	690469.97	1731144.29
9	690444.04	1731144.62
10	690394.03	1731145.03
11	690393.96	1731164.69
12	690444.56	1731164.31
13	690470.70	1731164.01
14	690496.83	1731163.71
15	690547.58	1731163.13
16	690547.77	1731183.26
17	690497.77	1731183.65
18	690471.44	1731184.17
19	690445.11	1731184.69
20	690393.89	1731184.35
21	690459.16	1731198.66
22	690483.41	1731198.30
23	690483.83	1731248.45
24	690471.80	1731248.55
25	690459.78	1731248.65



GRADING PLAN - TEXAS AVENUE & 8TH
FULL SCALE: 1:20 HALF SCALE: 1:40



GRADING PLAN - TEXAS AVENUE & 9TH
FULL SCALE: 1:20 HALF SCALE: 1:40

PT #	Northing	Easting
1	690850.57	1731081.12
2	690829.95	1731081.05
3	690809.33	1731080.98
4	690809.97	1731130.69
5	690850.54	1731131.12
6	690911.06	1731139.19
7	690859.52	1731139.92
8	690829.66	1731140.12
9	690799.80	1731140.37
10	690750.65	1731141.12
11	690750.73	1731160.83
12	690800.30	1731160.24
13	690830.49	1731159.89
14	690859.80	1731159.55
15	690911.20	1731158.97
16	690911.44	1731178.46
17	690860.09	1731179.81
18	690830.45	1731180.20
19	690800.80	1731180.59
20	690750.81	1731180.54
21	690810.53	1731190.07
22	690851.79	1731188.31
23	690852.31	1731239.69
24	690831.76	1731239.97
25	690811.21	1731240.24

CONSTRUCTION PLAN KEY NOTES:

- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB AND GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVER HEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED & REPLACED.
- ADJUST VALVE BOX TO GRADE.
- SAWCUT AND BEGIN MILL-INLAY 2" INTO EXISTING INTERSECTION HMA

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	9-08-17	ISSUED FOR CONSTRUCTION	SC

New Mexico One Call, Inc. Call 2 days before you dig!
NMOC
 Professional Resources for Damage Prevention
 Dial 811 or 1-800-321-2537



Street Maintenance Program FY 2017

TEXAS AVENUE INTERSECTION RECONSTRUCTION 8TH STREET & 9TH STREET

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010
 Drawn By: OT Designed By: OT
 Checked By: SC Approved By: SC

Scale: Horiz.: 1" = 20' Vert.: n/a

Sheet No.:

RC 5.1

Sheet 16 of 103

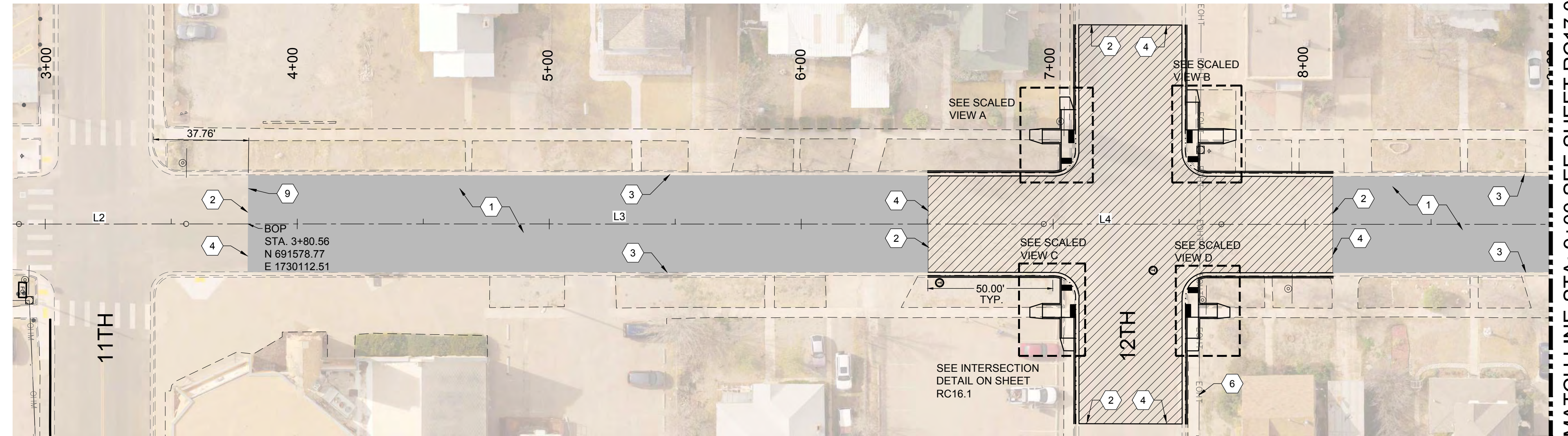
EN1701

NOTES:

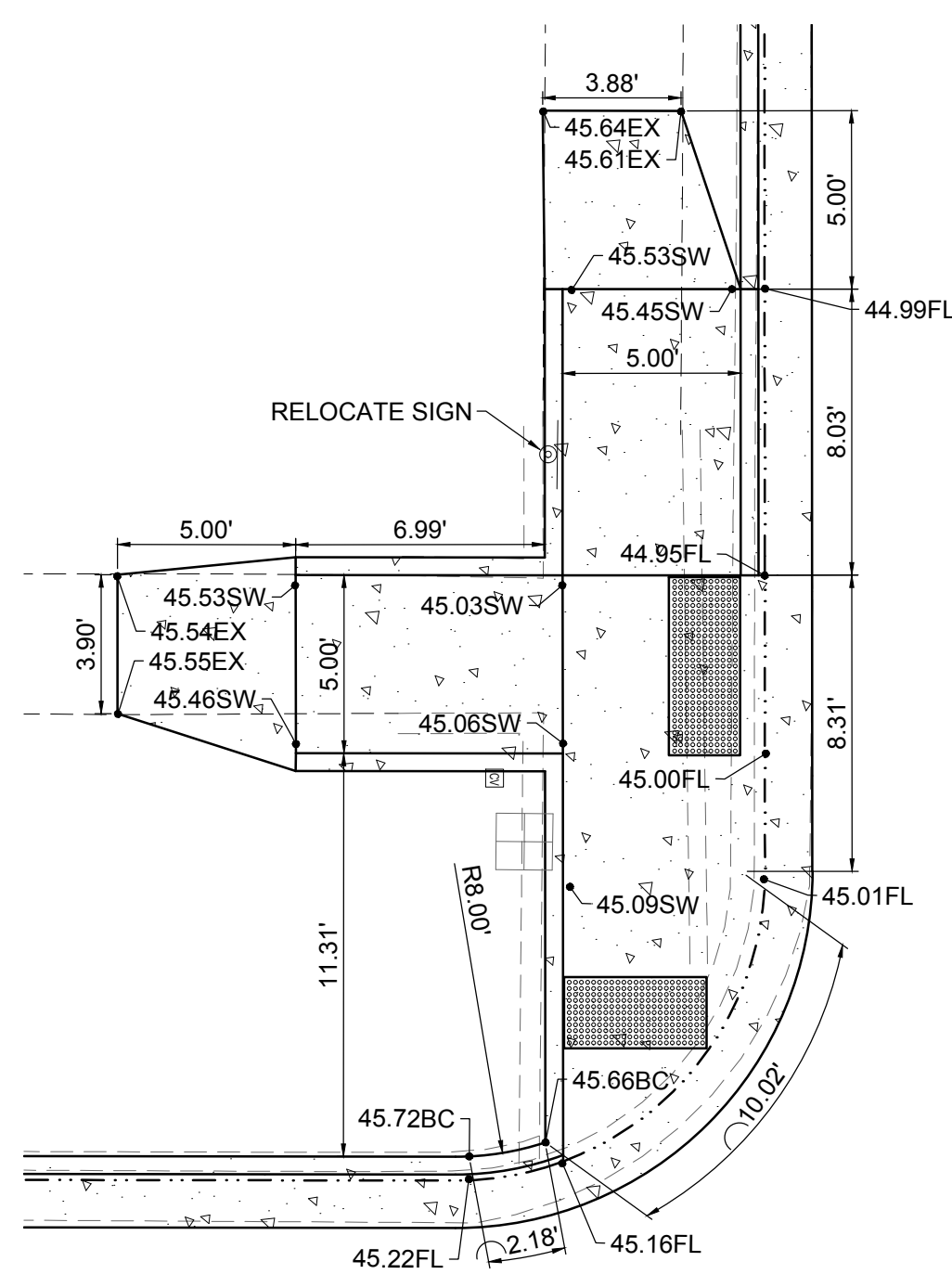
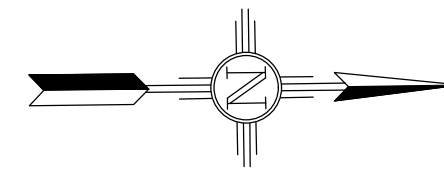
- THE FOLLOWING INTERSECTIONS WITH MICHIGAN SHALL RECEIVE FULL RECONSTRUCTION: 12TH, 13TH, 14TH.

CONSTRUCTION PLAN KEY NOTES:

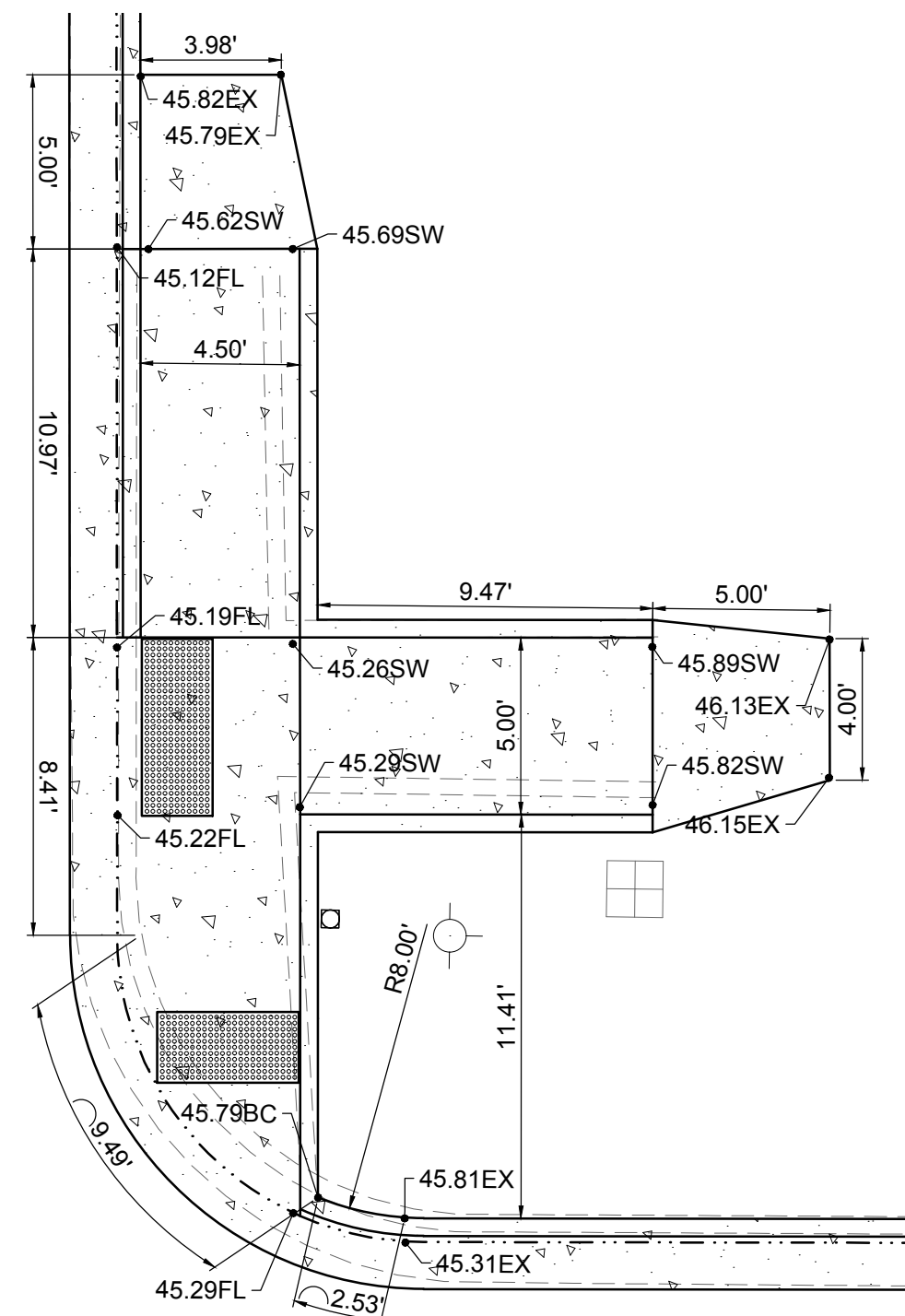
- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB & GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVERHEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED AND REPLACED.
- ADJUST VALVE BOX TO GRADE.
- SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.



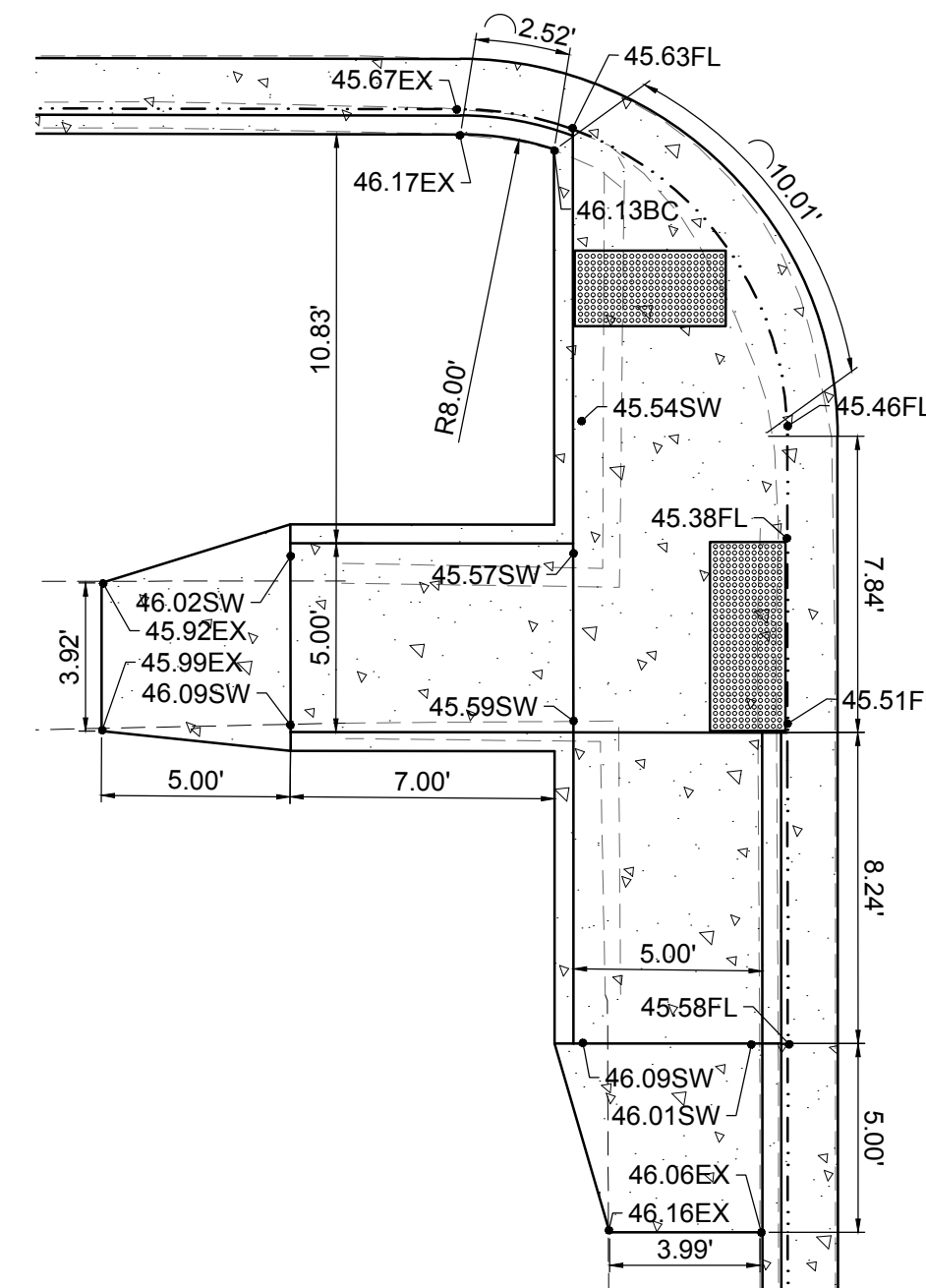
MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



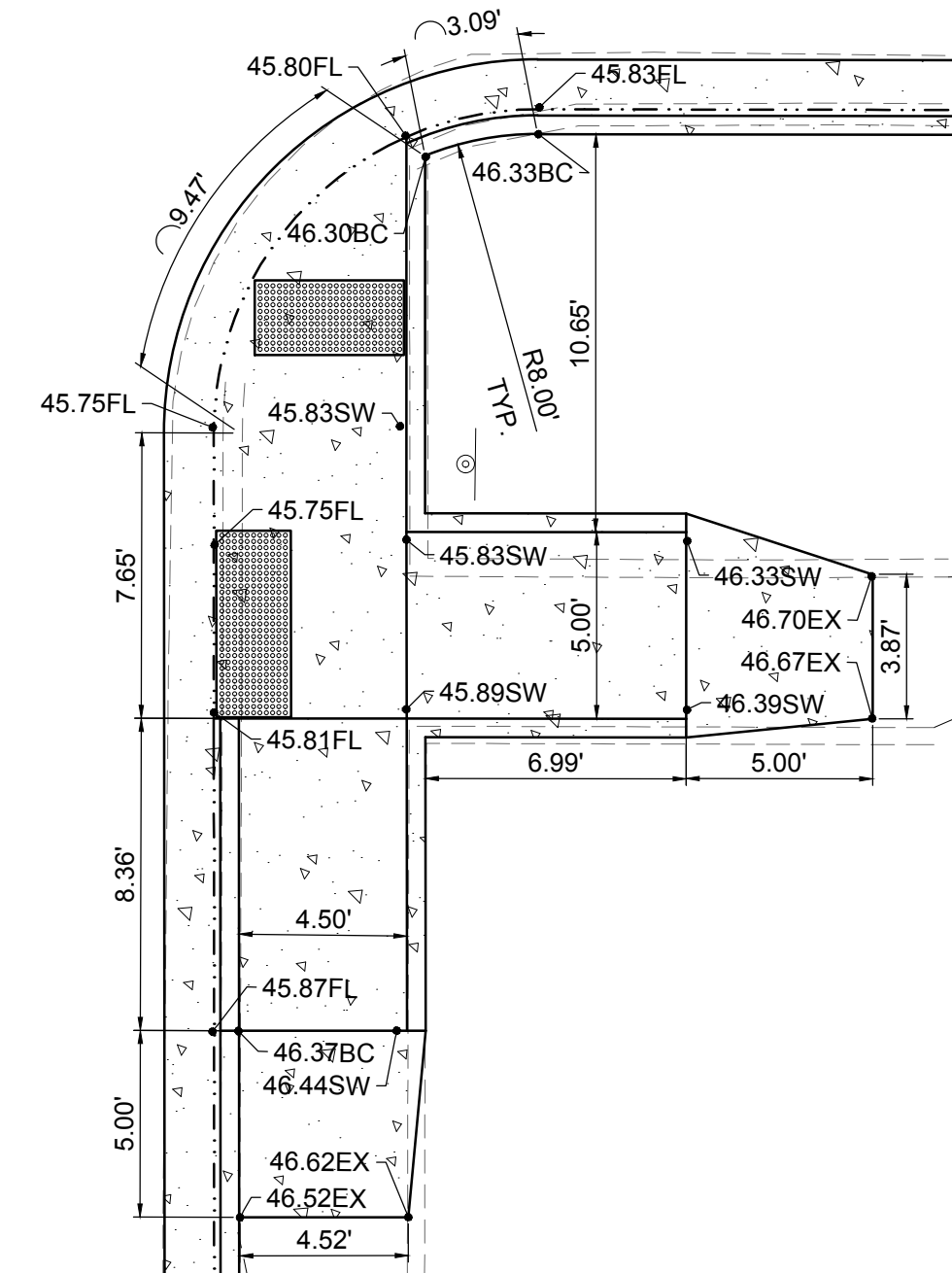
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



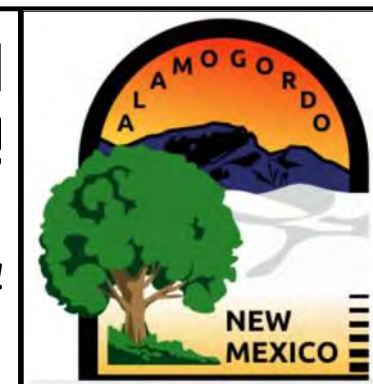
SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

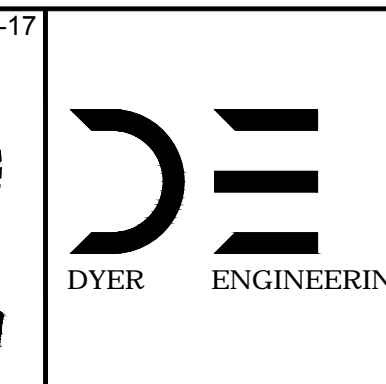
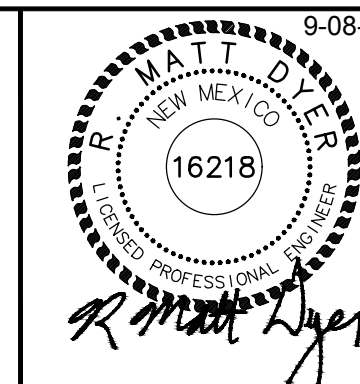
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

MICHIGAN AVENUE ROAD CONSTRUCTION PLAN STATION 3+80 TO 9+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

Sheet No.:	RC 16.0
Sheet 28 of 103	
EN1701	

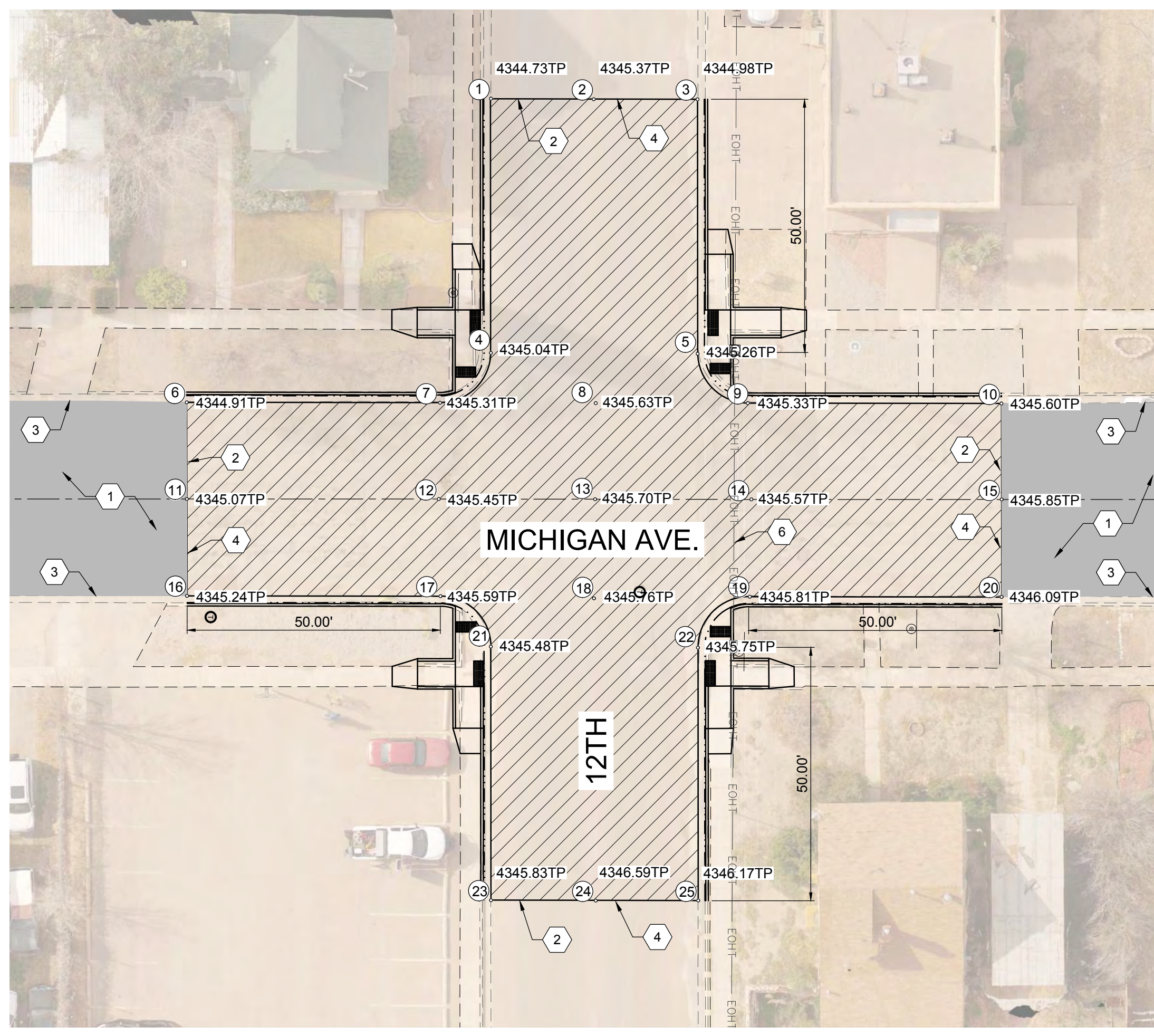
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

PT #	Northing	Easting
1	691907.52	1730029.78
2	691928.02	1730029.47
3	691948.40	1730029.30
4	691908.11	1730079.16
5	691948.93	1730079.18
6	691848.27	1730090.32
7	691897.81	1730089.85
8	691928.60	1730089.30
9	691959.24	1730089.19
10	692009.08	1730088.72
11	691848.43	1730109.40
12	691898.25	1730109.00
13	691928.70	1730108.23
14	691959.57	1730108.07
15	692009.32	1730107.78
16	691848.76	1730128.65
17	691898.39	1730128.05
18	691929.36	1730127.79
19	691960.12	1730127.42
20	692008.11	1730127.05
21	691908.79	1730137.64
22	691949.54	1730137.36
23	691909.49	1730187.97
24	691929.86	1730187.63
25	691950.34	1730187.59

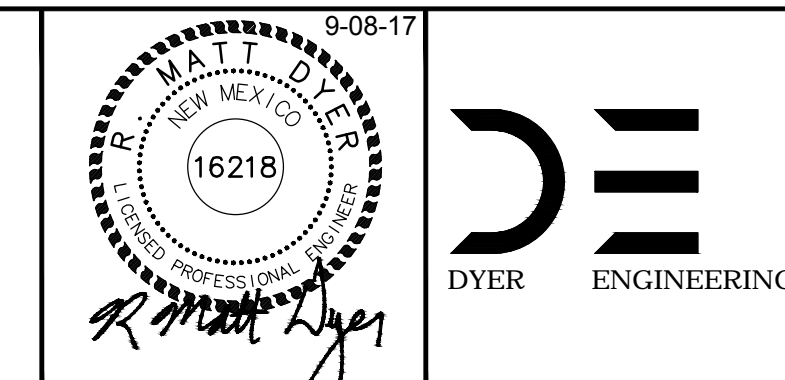


GRADING PLAN - MICHIGAN AVENUE & 12TH
 FULL SCALE: 1:20 HALF SCALE 1:40

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE INTERSECTION
RECONSTRUCTION PLAN 12TH STREET
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=20'
Scale: Vert.:	n/a

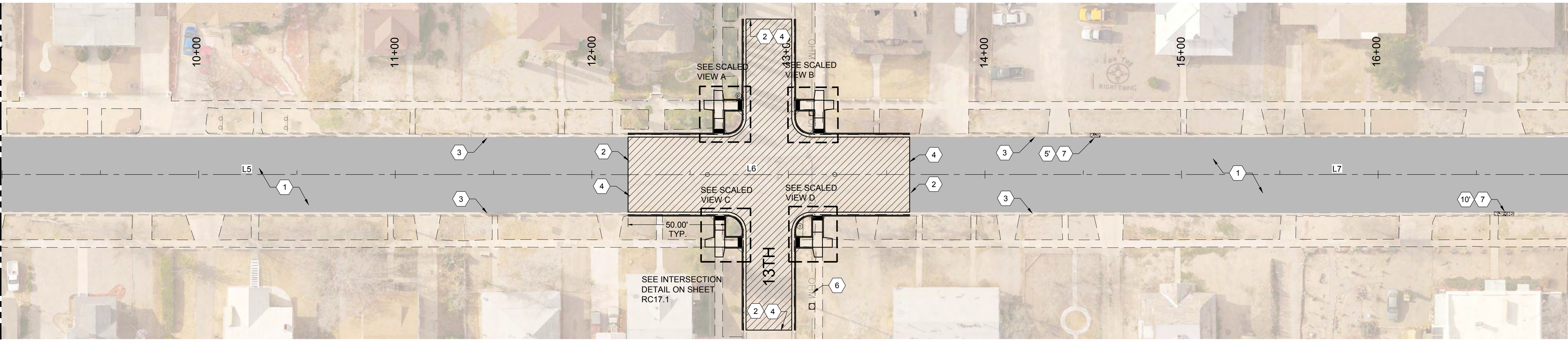
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND

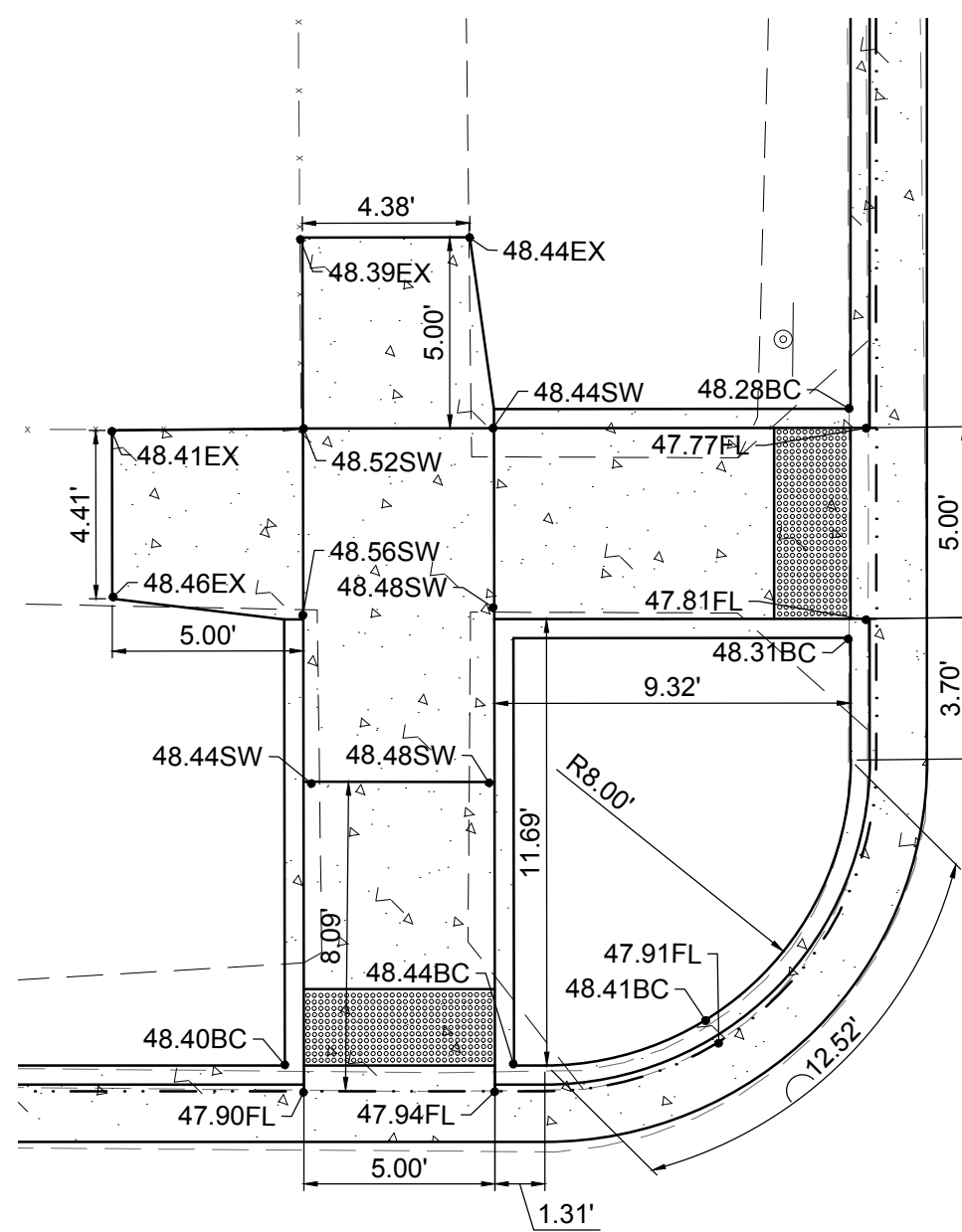
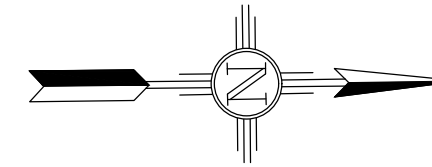
- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES

MATCH LINE-STA: 9+00 SEE SHEET RC16.0

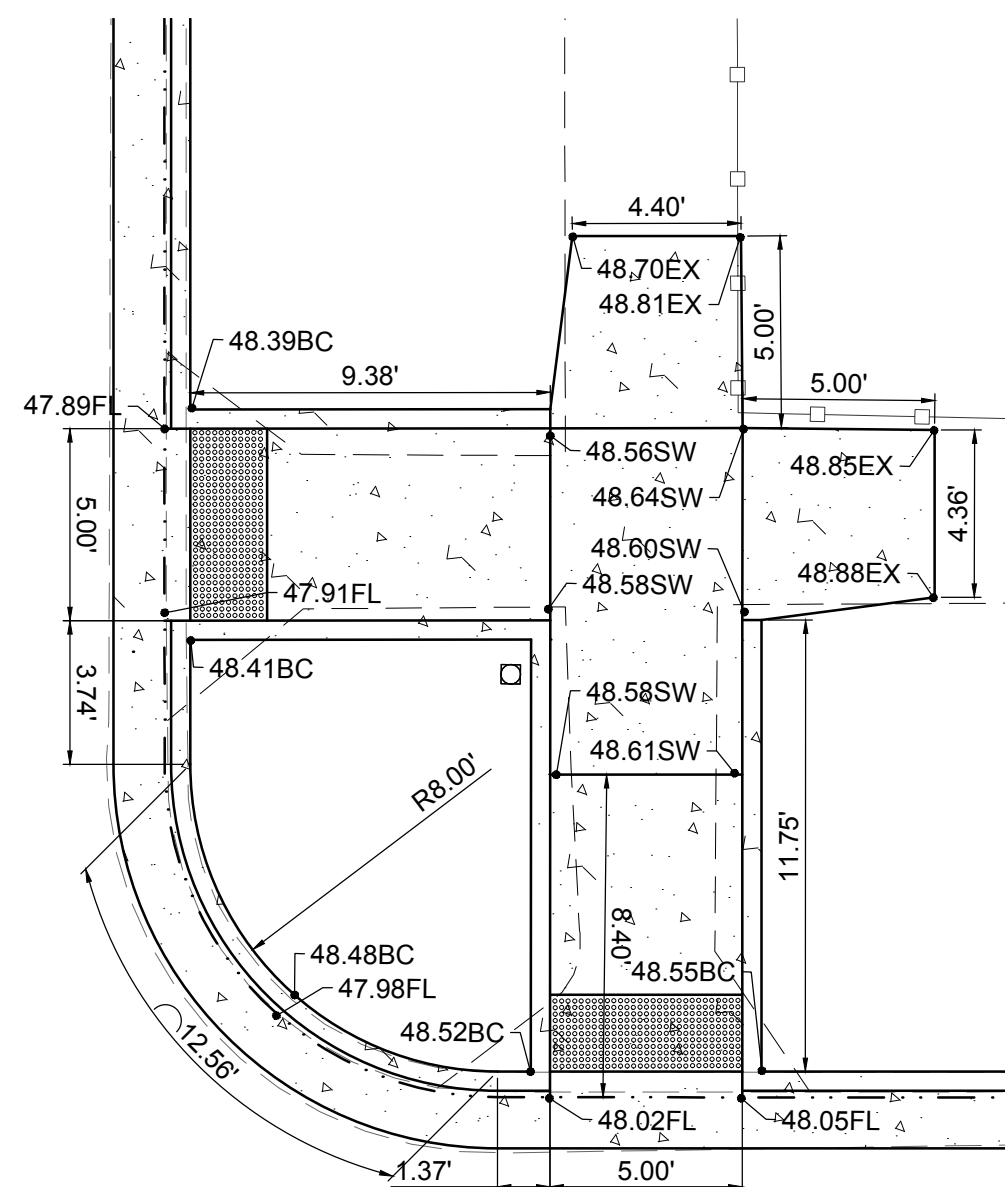


MATCH LINE-STA: 17+00 SEE SHEET RC18.0

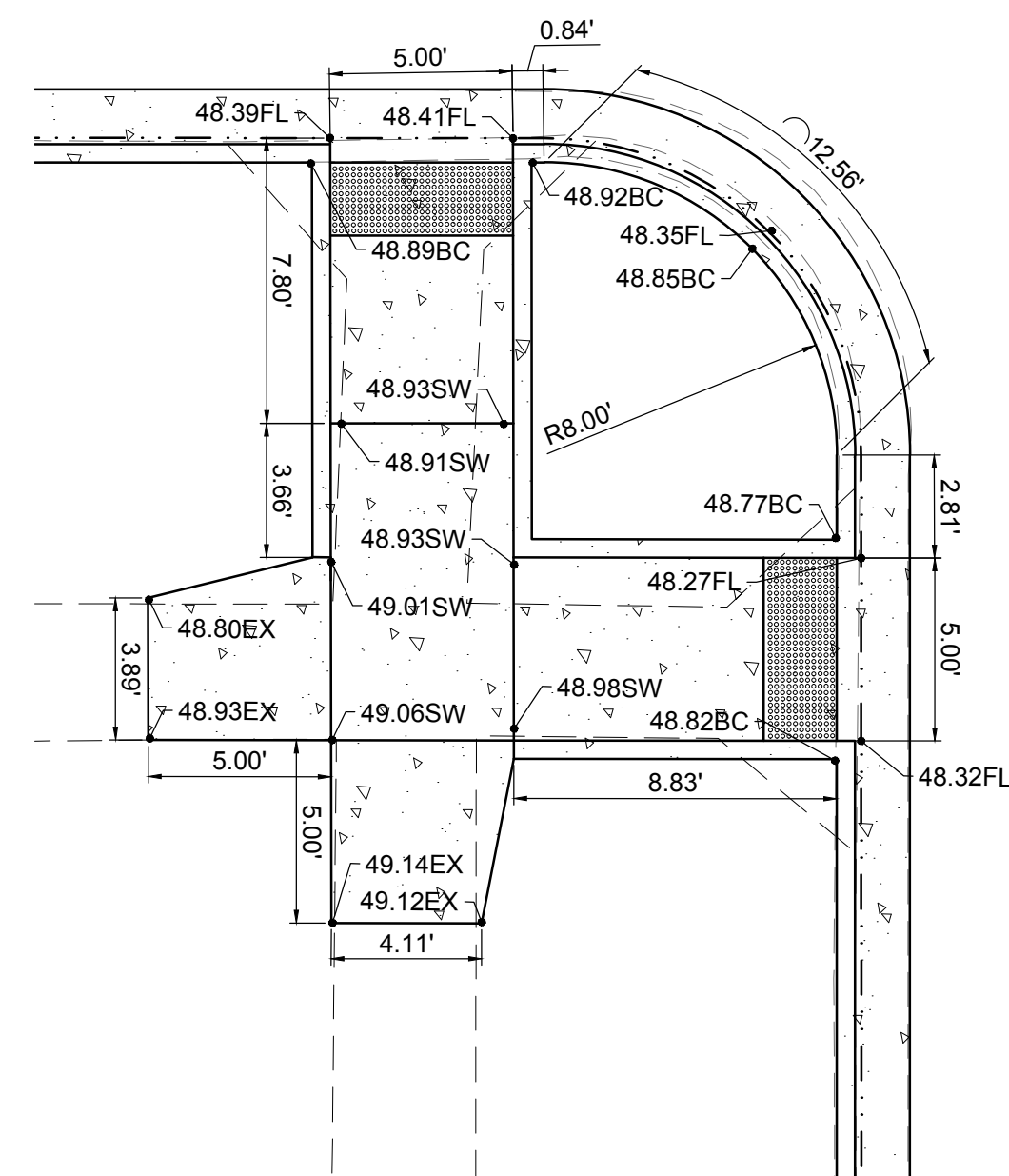
MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



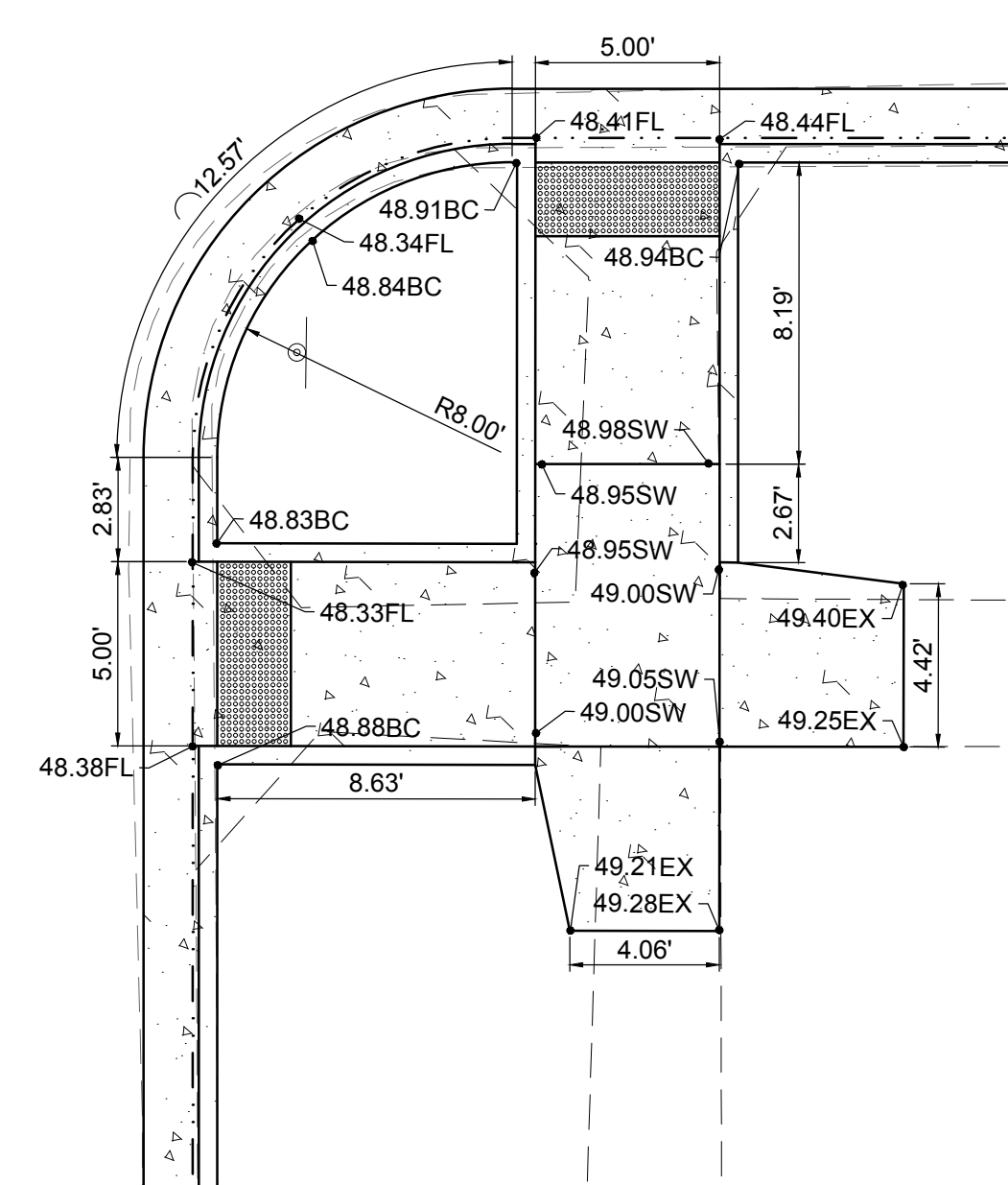
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

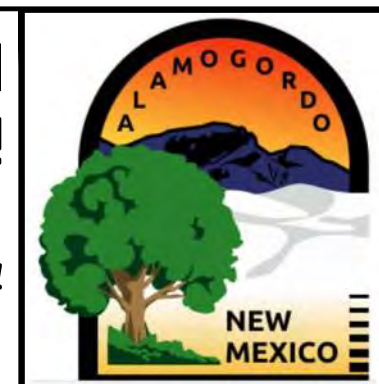


SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

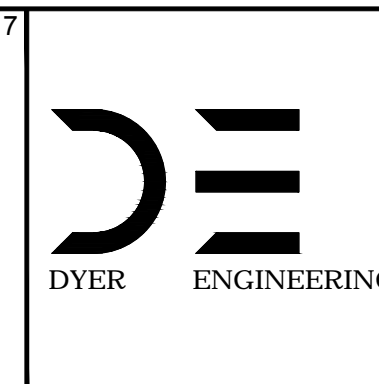
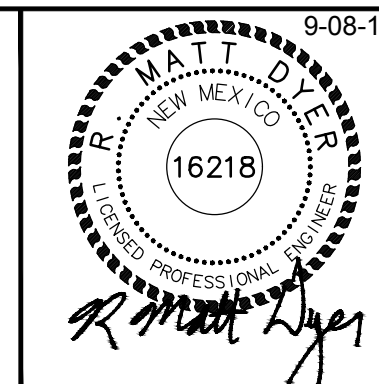


SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE ROAD CONSTRUCTION PLAN
STATION 9+00 TO 17+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



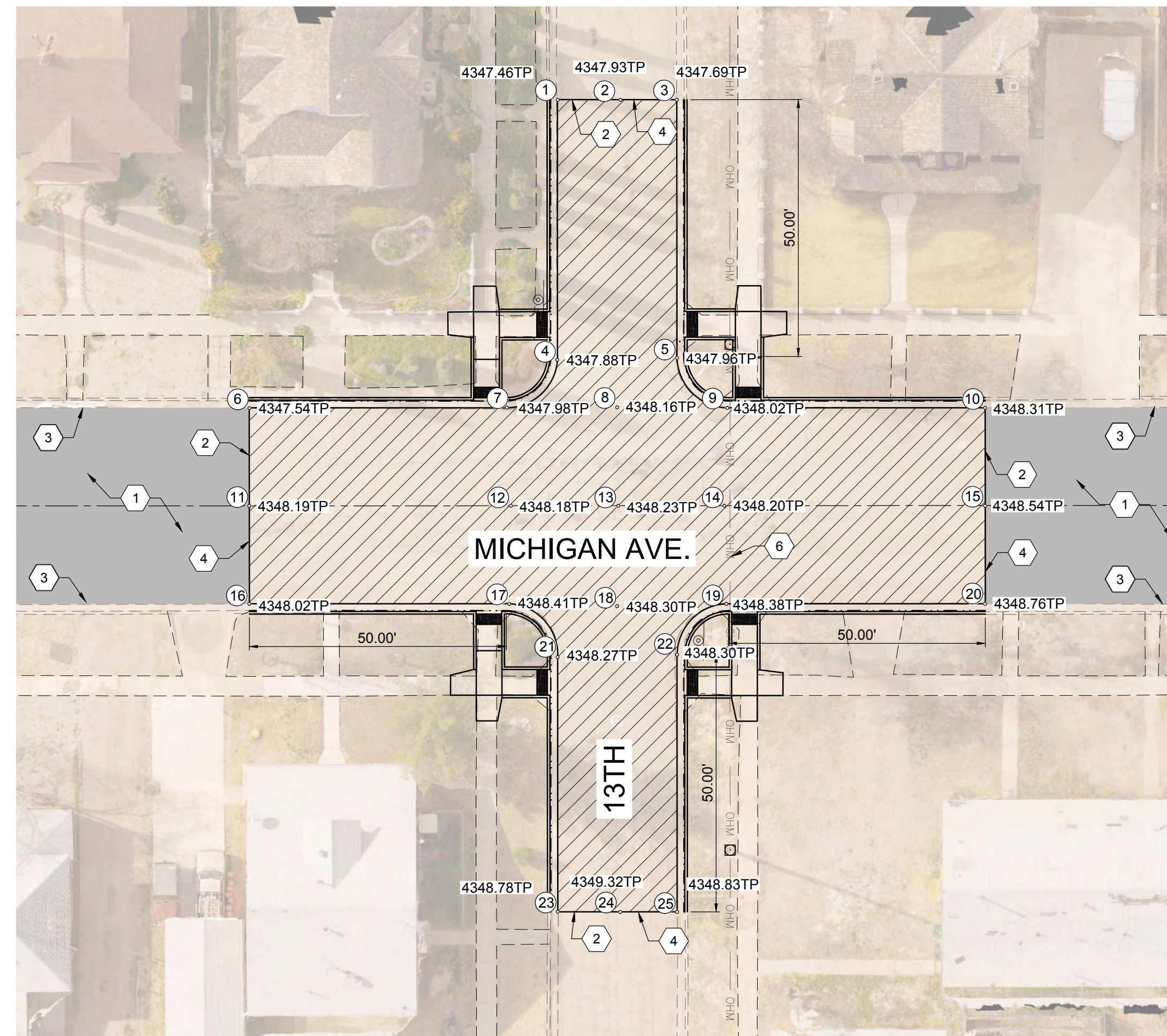
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

Sheet No.: RC 17.0
 Sheet 30 of 103
 EN1701

1 CONSTRUCTION PLAN KEY NOTES:

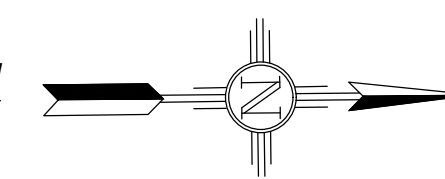
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

PT #	Northing	Easting
1	692475.73	1730023.17
2	692487.27	1730023.09
3	692498.86	1730023.02
4	692476.30	1730073.88
5	692499.55	1730073.30
6	692416.49	1730083.90
7	692467.09	1730083.30
8	692487.95	1730082.81
9	692508.92	1730082.86
10	692559.50	1730082.35
11	692416.54	1730102.96
12	692467.45	1730102.51
13	692488.37	1730102.41
14	692509.13	1730101.85
15	692559.57	1730101.25
16	692416.93	1730122.32
17	692467.37	1730121.26
18	692488.45	1730121.77
19	692509.20	1730121.07
20	692560.11	1730120.30
21	692477.02	1730131.29
22	692499.93	1730130.55
23	692477.64	1730178.93
24	692489.40	1730178.60
25	692500.77	1730178.56



LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

GRADING PLAN - MICHIGAN AVENUE & 13TH
FULL SCALE: 1:20 HALF SCALE 1:40



REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

Street Maintenance Program FY 2017
MICHIGAN AVENUE INTERSECTION
RECONSTRUCTION PLAN 13TH STREET
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=20'
Scale: Vert.:	n/a

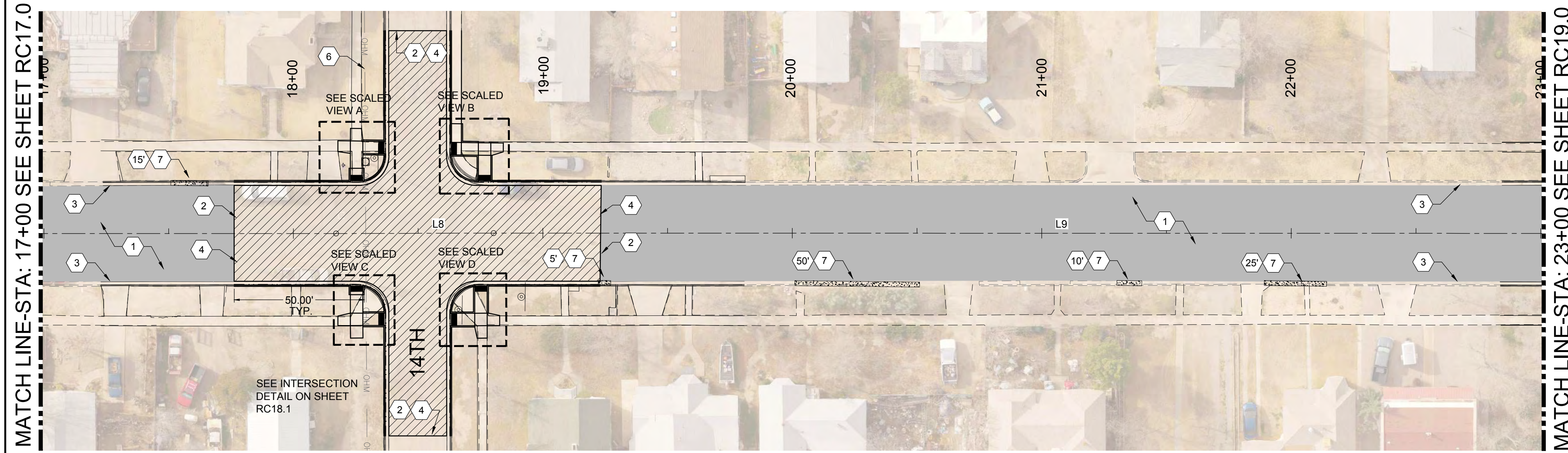
Sheet No.:	RC 17.1
Sheet	31 of 103
EN1701	

CONSTRUCTION PLAN KEY NOTES:

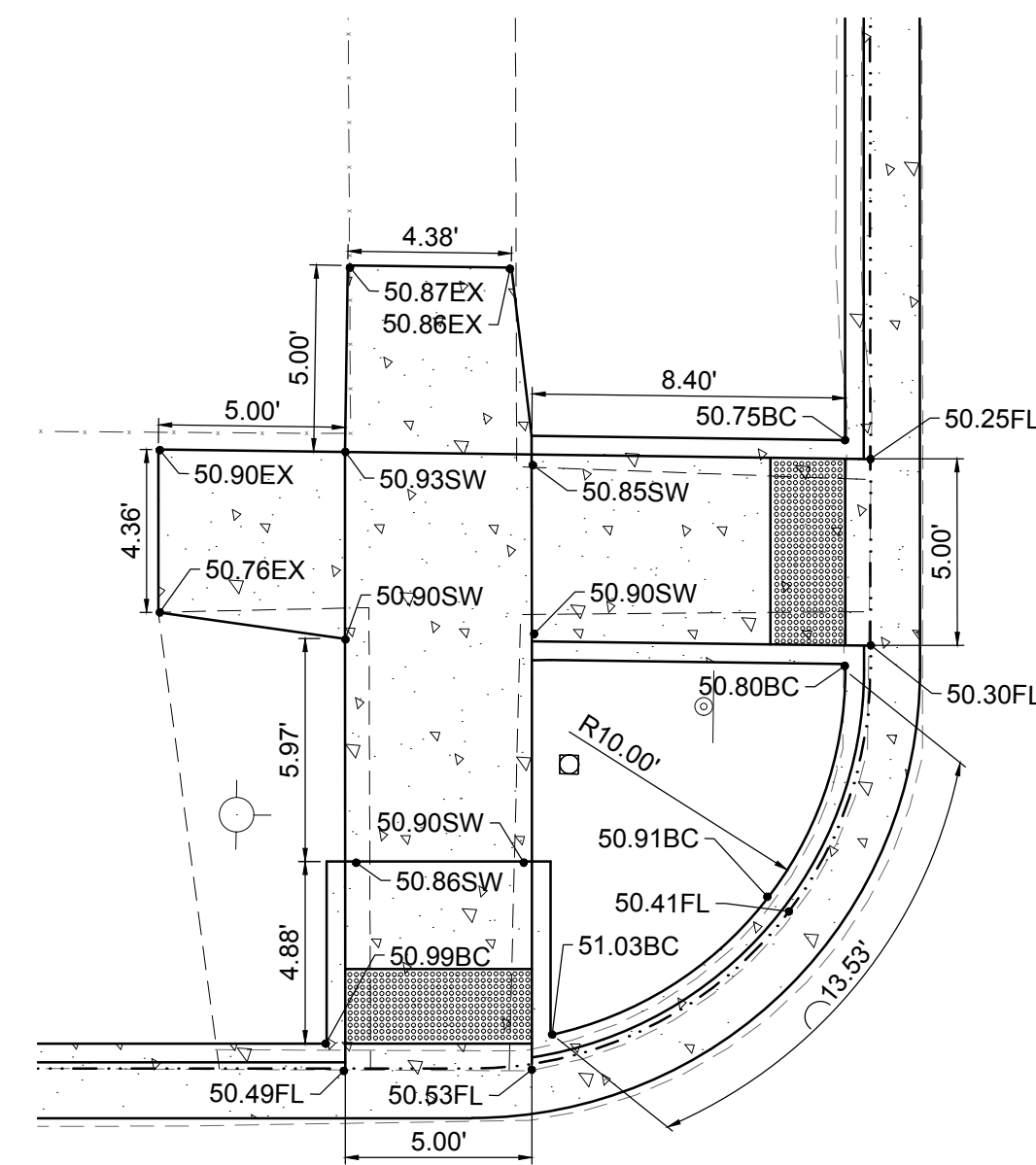
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND

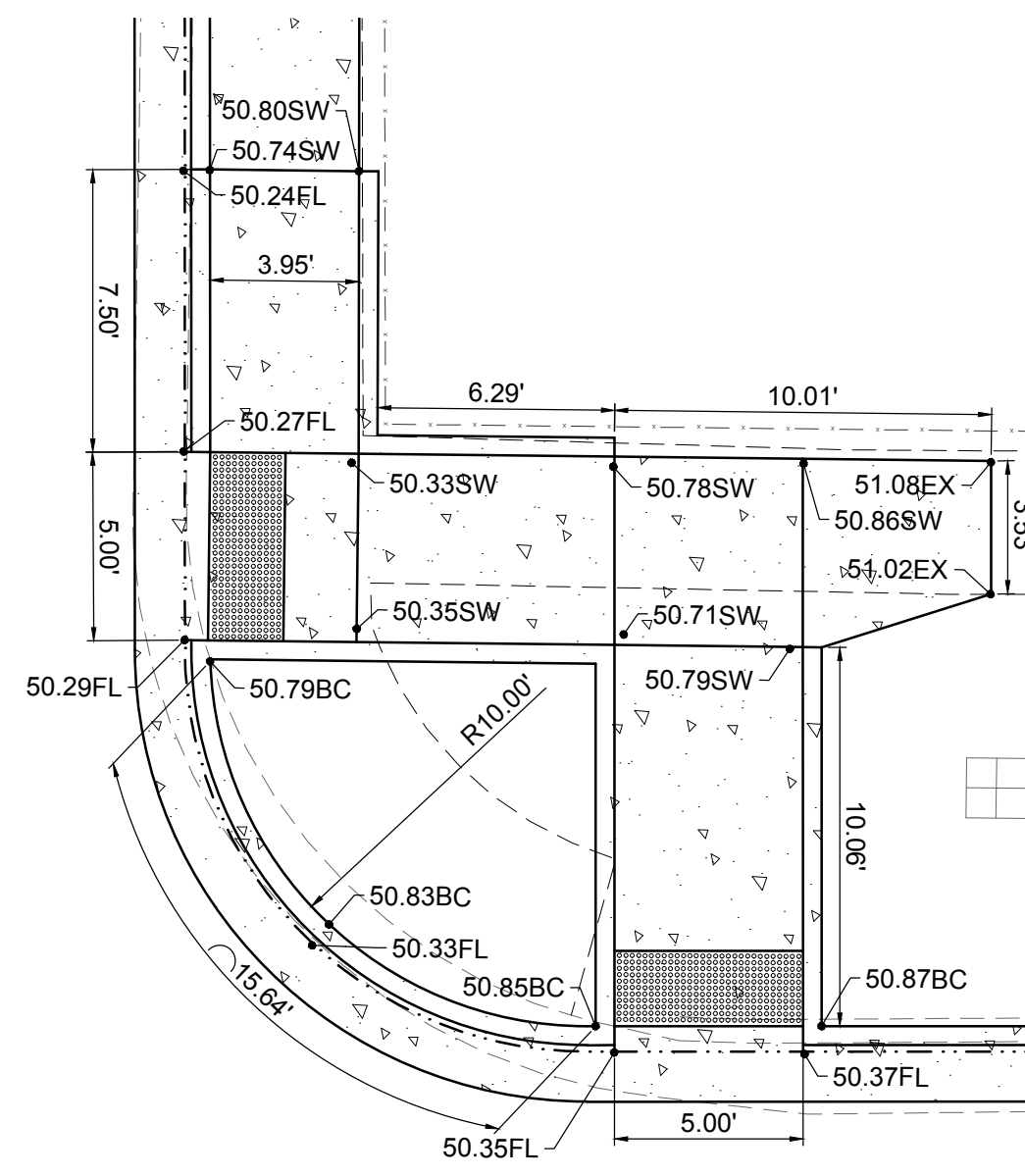
- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES



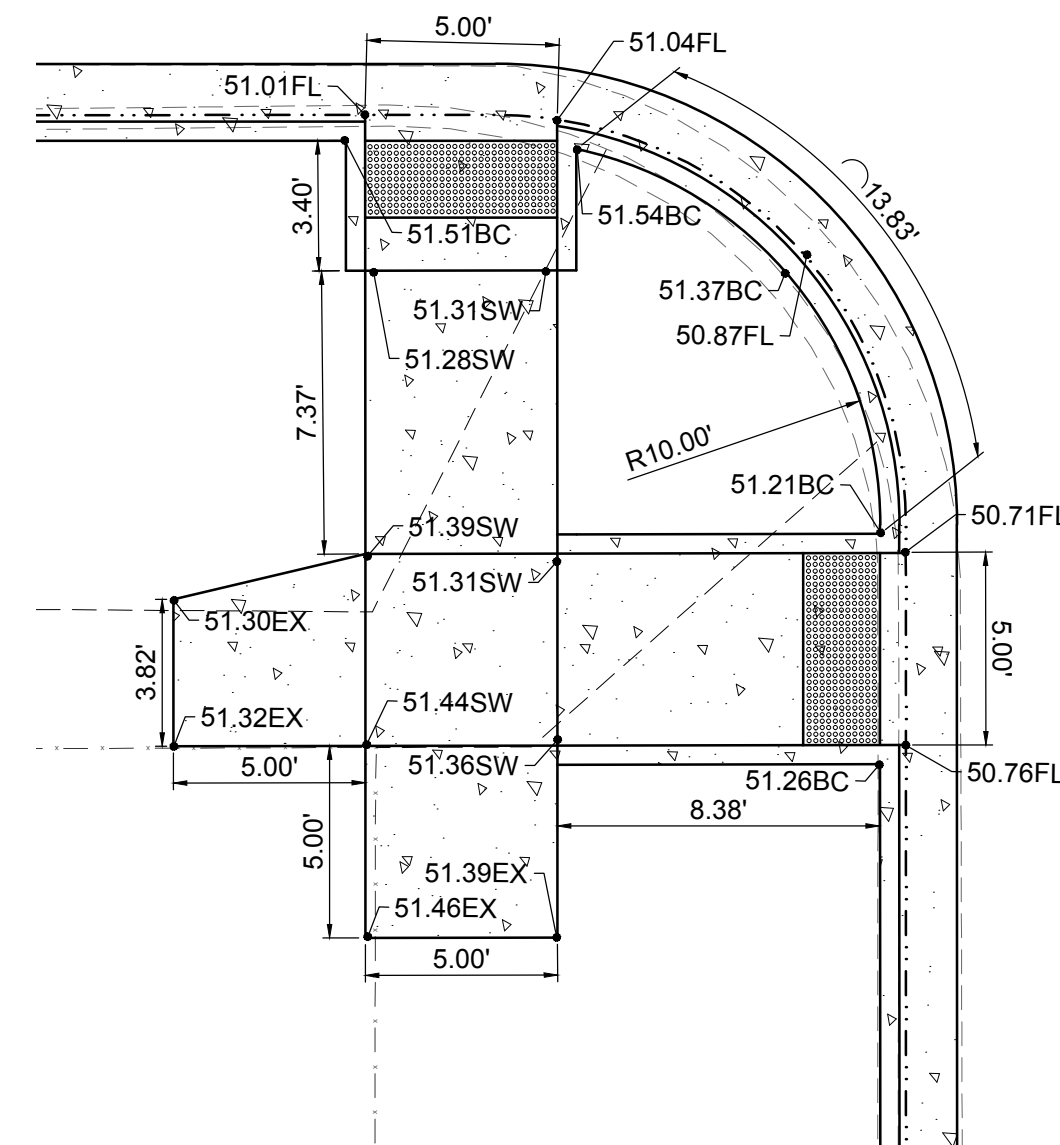
MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



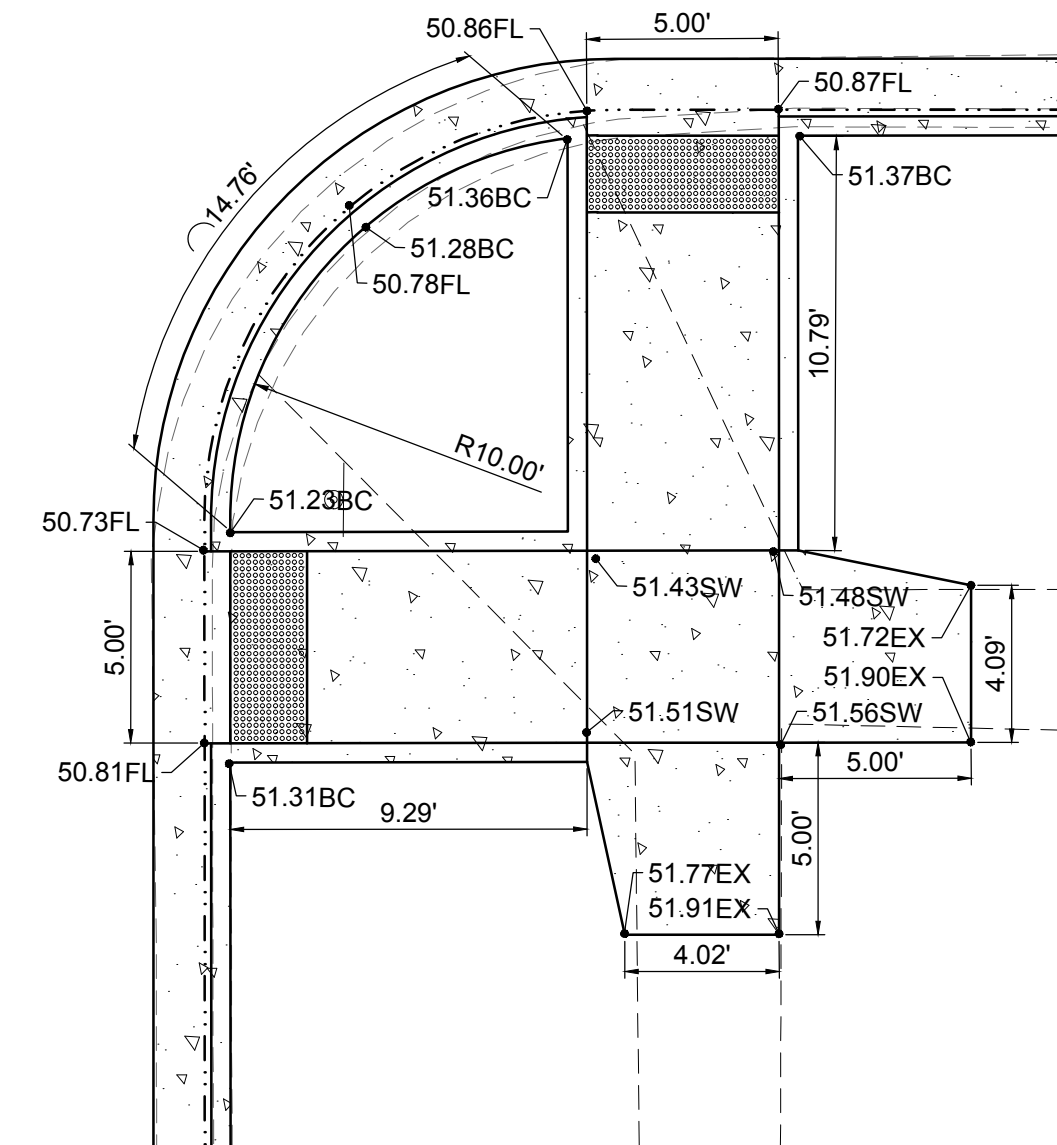
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

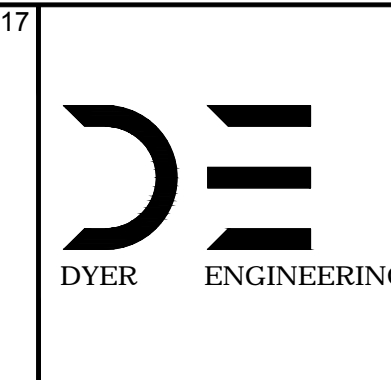
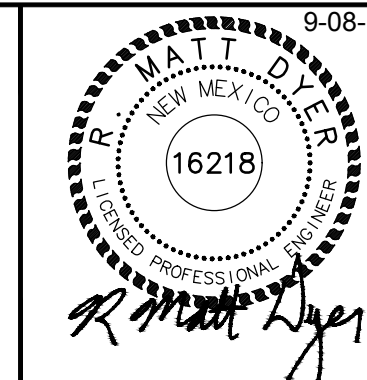


SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE ROAD CONSTRUCTION PLAN
STATION 17+00 TO 23+00
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

Sheet No.: RC 18.0
Sheet 32 of 103
EN1701

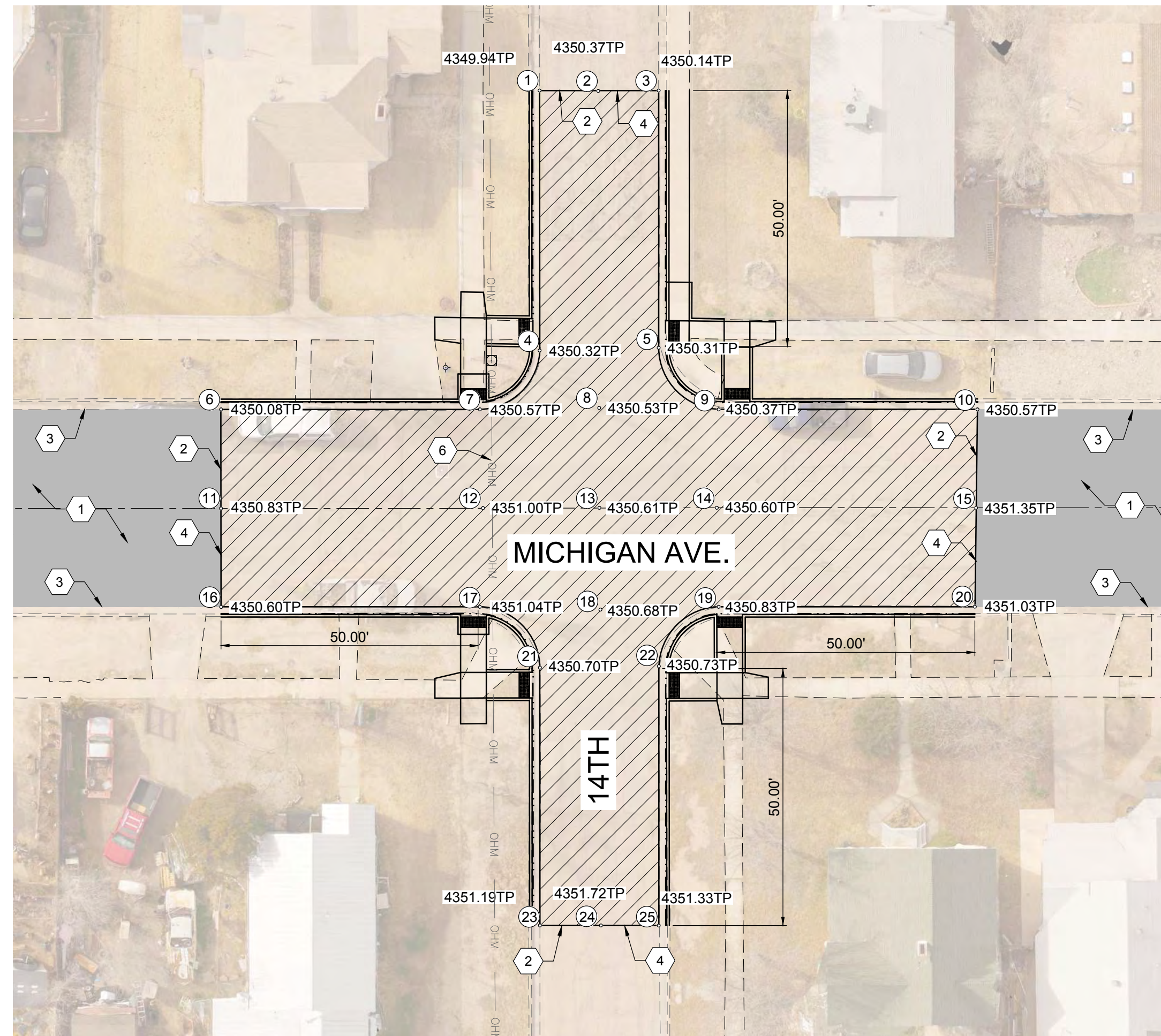
1 CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

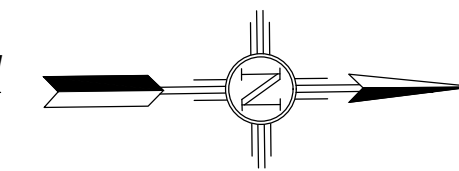
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

PT #	Northing	Easting
1	693035.40	1730014.24
2	693047.16	1730014.31
3	693058.49	1730014.18
4	693036.11	1730064.95
5	693059.09	1730064.14
6	692974.37	1730077.07
7	693024.80	1730076.57
8	693047.68	1730075.98
9	693070.67	1730075.92
10	693121.25	1730075.42
11	692974.62	1730096.15
12	693025.27	1730095.65
13	693047.83	1730095.38
14	693070.71	1730095.00
15	693121.14	1730094.61
16	692974.75	1730115.53
17	693025.50	1730114.92
18	693048.07	1730115.39
19	693070.95	1730114.38
20	693121.37	1730113.67
21	693036.76	1730126.33
22	693059.74	1730125.73
23	693037.57	1730176.98
24	693048.80	1730176.74
25	693060.35	1730176.71



GRADING PLAN - MICHIGAN AVENUE & 14TH
FULL SCALE: 1:20 HALF SCALE 1:40



REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

CITY OF ALAMOGORDO, NEW MEXICO

Street Maintenance Program FY 2017
MICHIGAN AVENUE INTERSECTION
RECONSTRUCTION PLAN 14TH STREET
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

MATT DYER
 PROFESSIONAL ENGINEER
 License No. 16218

DYER ENGINEERING

Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=20'
Scale: Vert.:	n/a

Sheet No.:	RC 18.1
Sheet 33 of 103	
EN1701	

NOTES:

1. NOT USED
2. NOT USED
3. NO WORK INTERSECTION OF MICHIGAN AND 15TH.

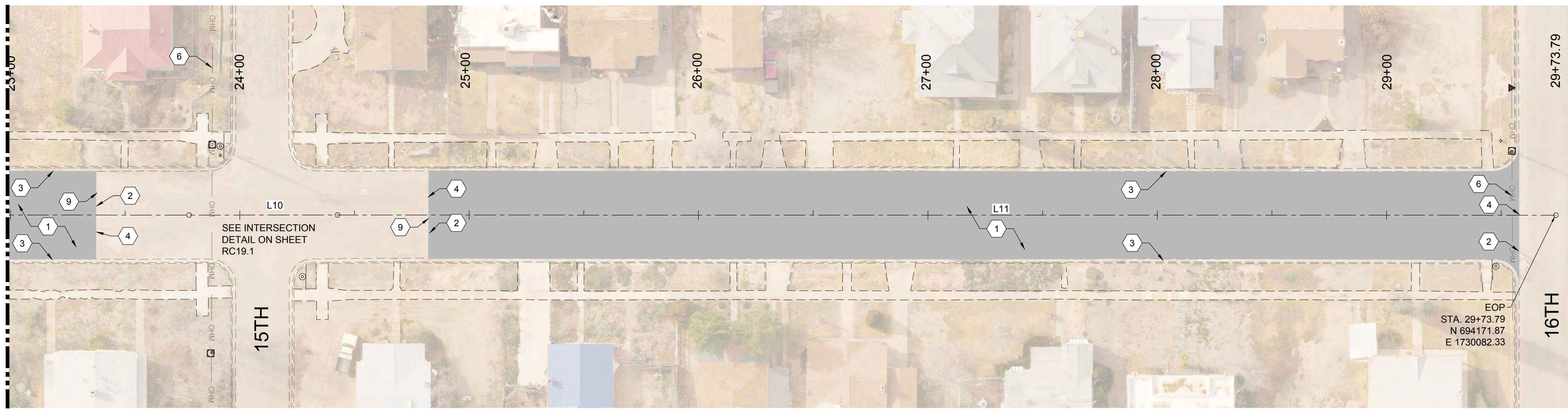
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

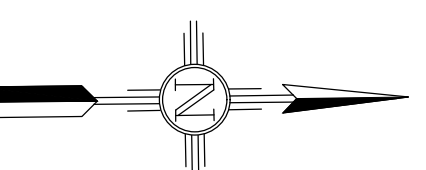
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

MATCH LINE-STA: 23+00 SEE SHEET RC18.0



MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

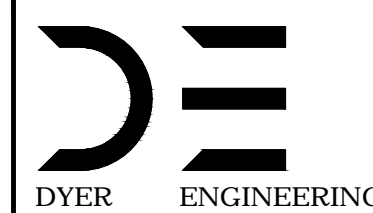
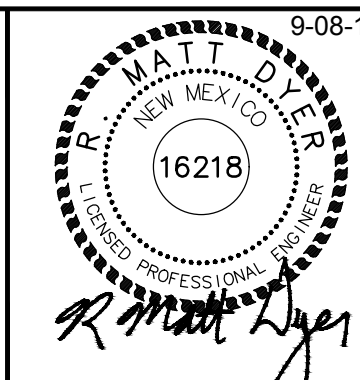


EOP
STA. 29+73.79
N 694171.87
E 1730082.33

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE ROAD CONSTRUCTION PLAN
STATION 23+00 TO 29+57
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:
RC 19.0
Sheet 34 of 103
EN1701

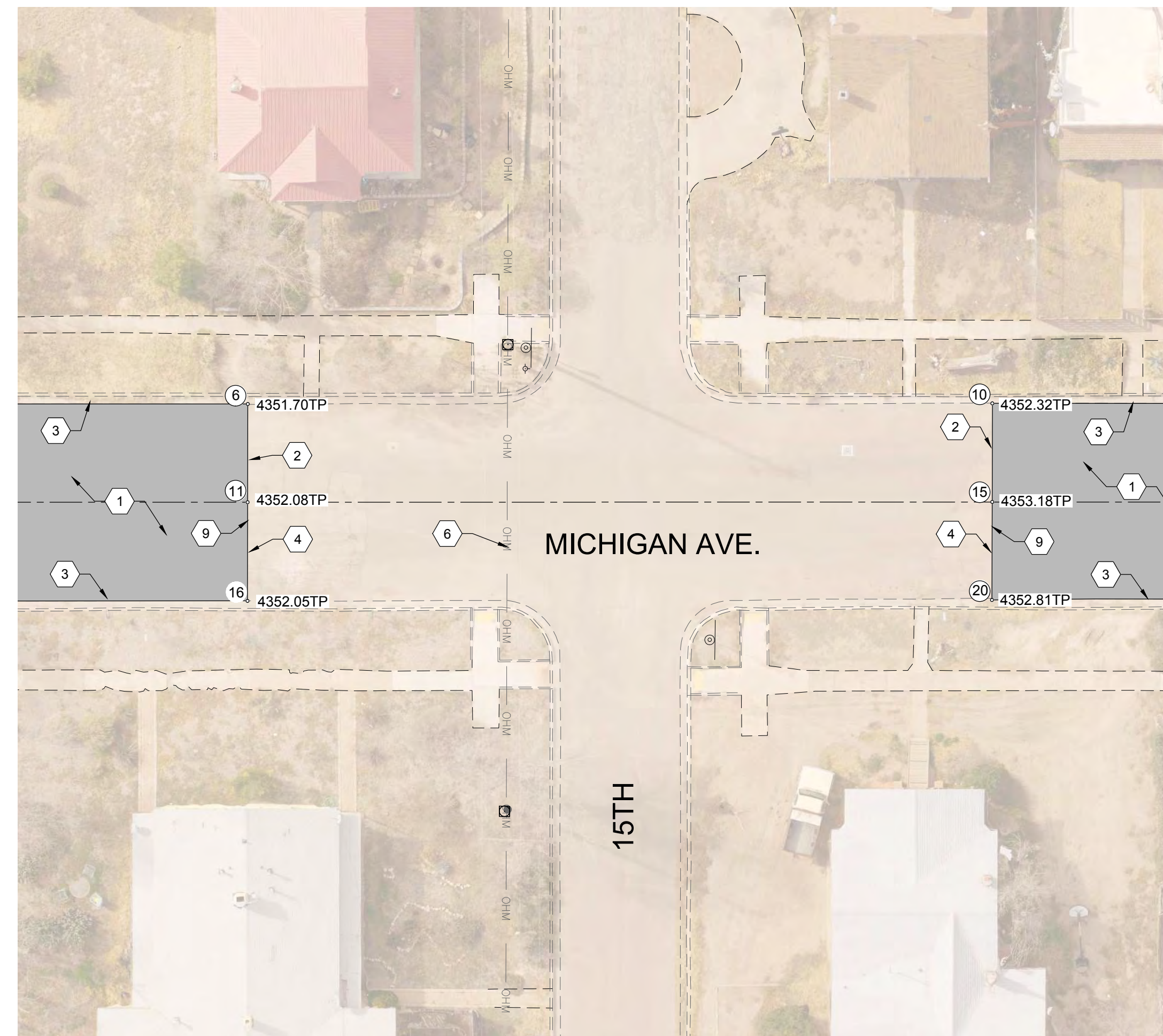
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

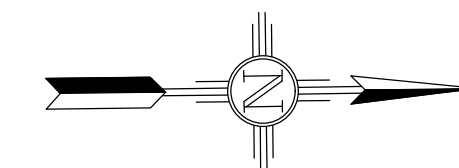
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

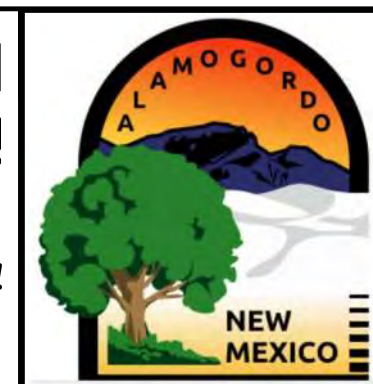
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10	693680.04	1730069.01
11	693535.37	1730089.29
15	693680.38	1730087.78
16	693535.82	1730109.03
20	693680.39	1730107.09



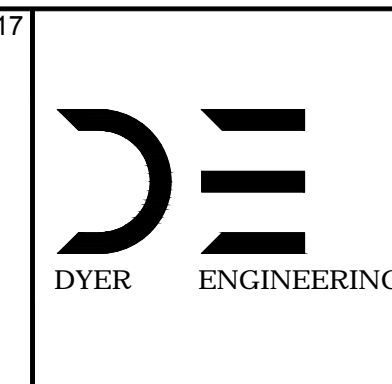
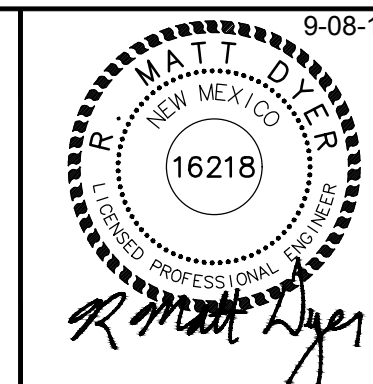
NO GRADING - MICHIGAN AVENUE & 15TH
FULL SCALE: 1:20 HALF SCALE 1:40



REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

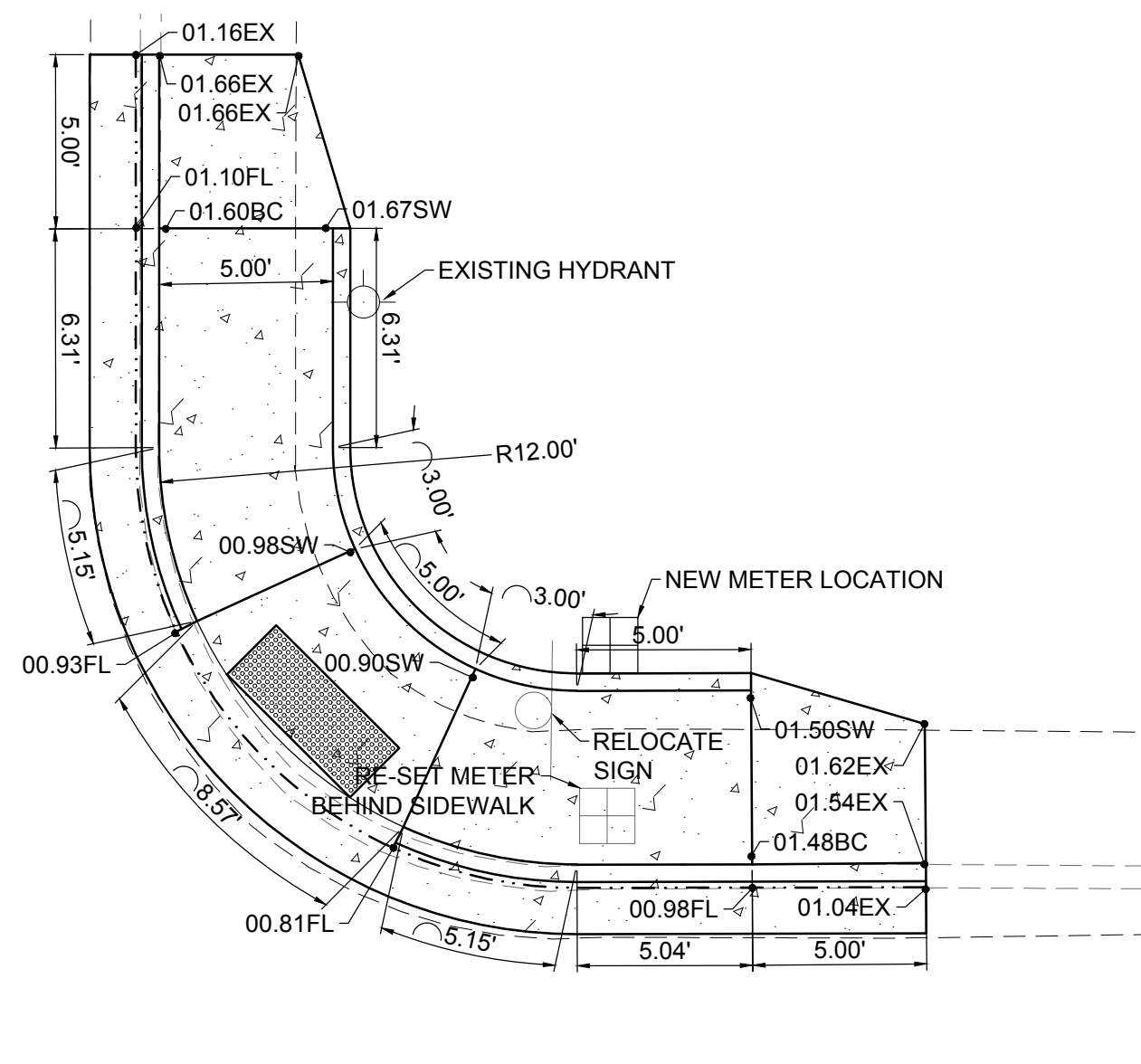


Street Maintenance Program FY 2017
MICHIGAN AVENUE INTERSECTION RECONSTRUCTION PLAN 15TH STREET
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

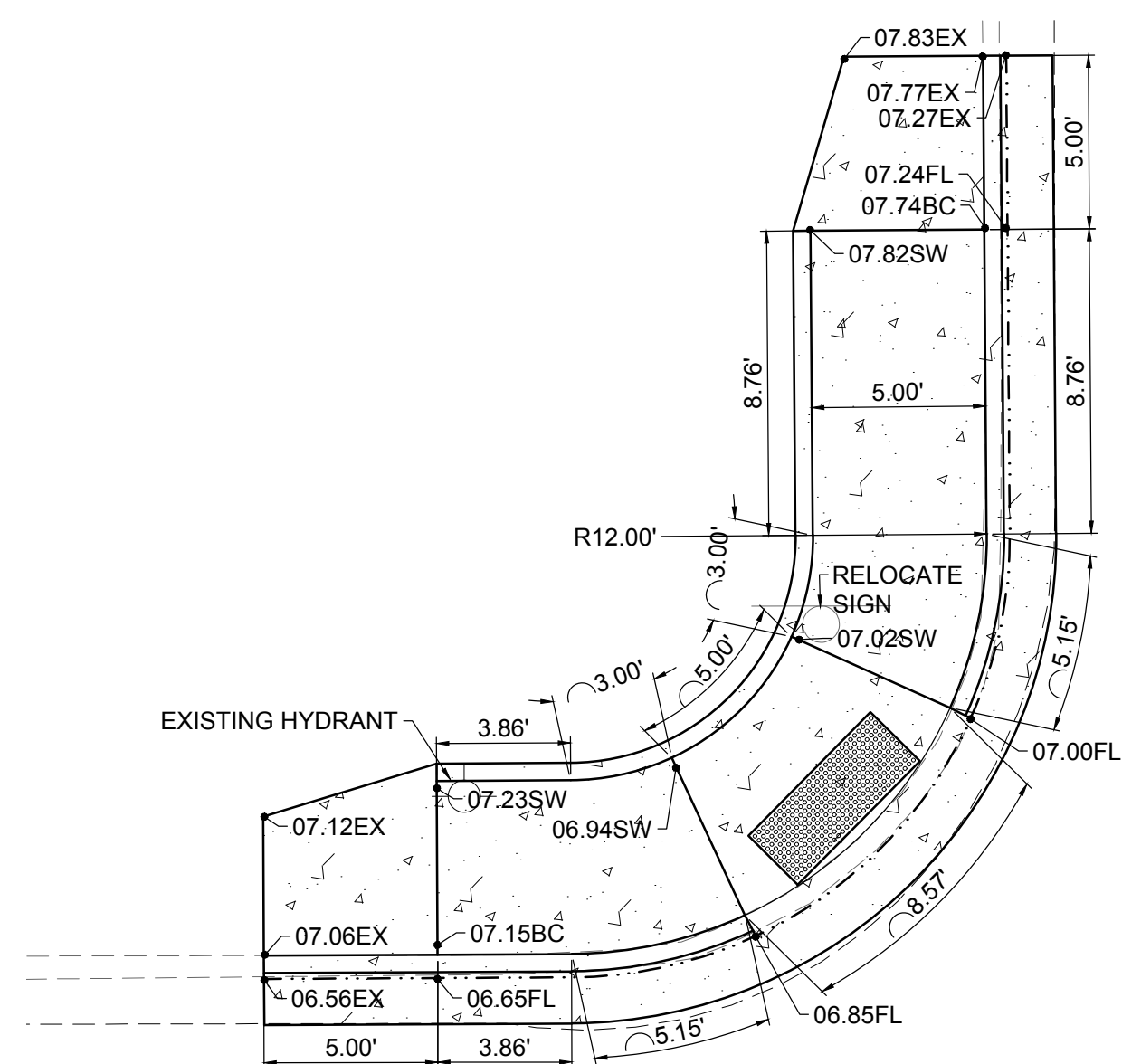


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=20'
Scale: Vert.:	n/a

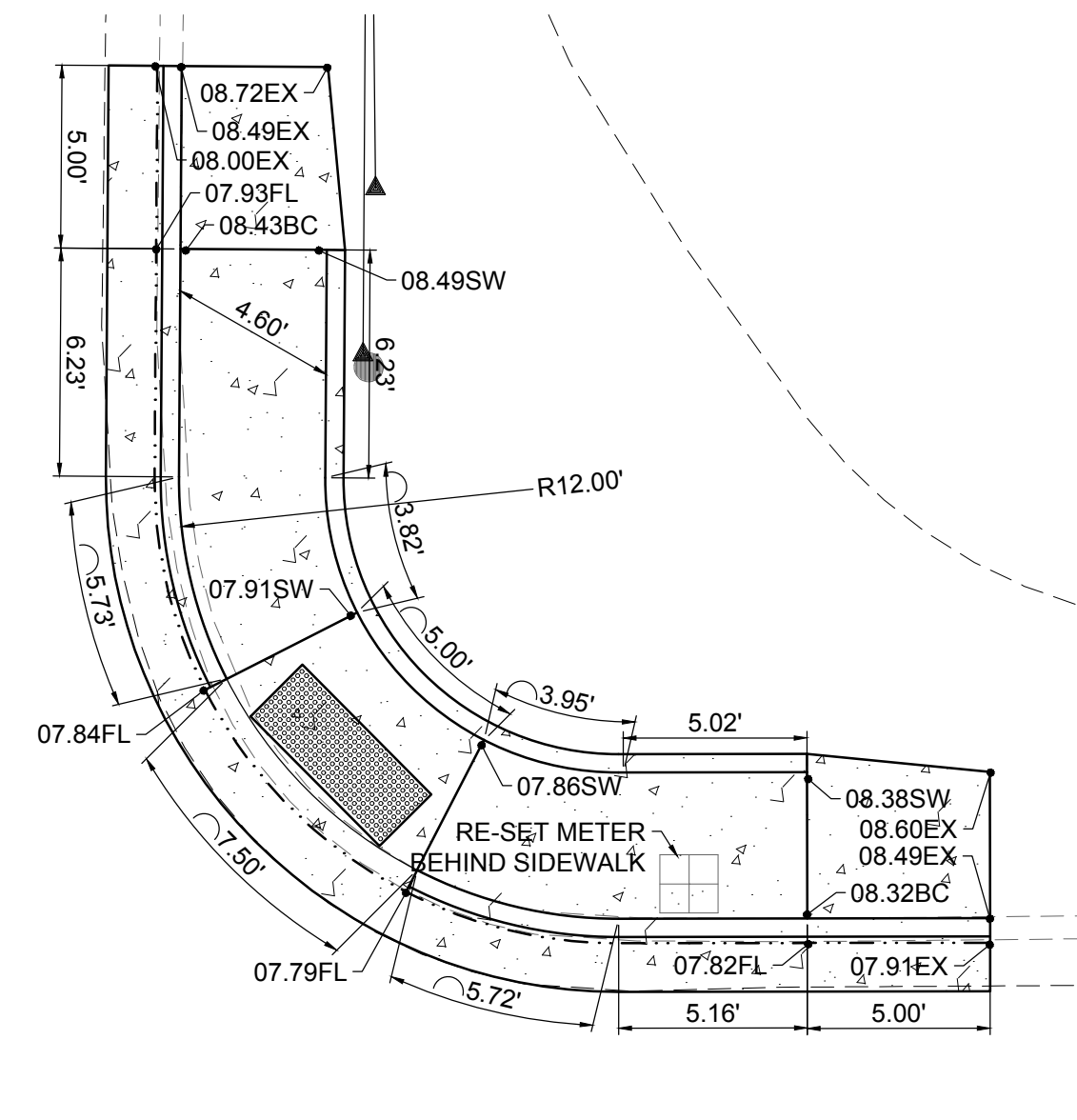
Sheet No.: RC 19.1
Sheet 35 of 103
EN1701



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



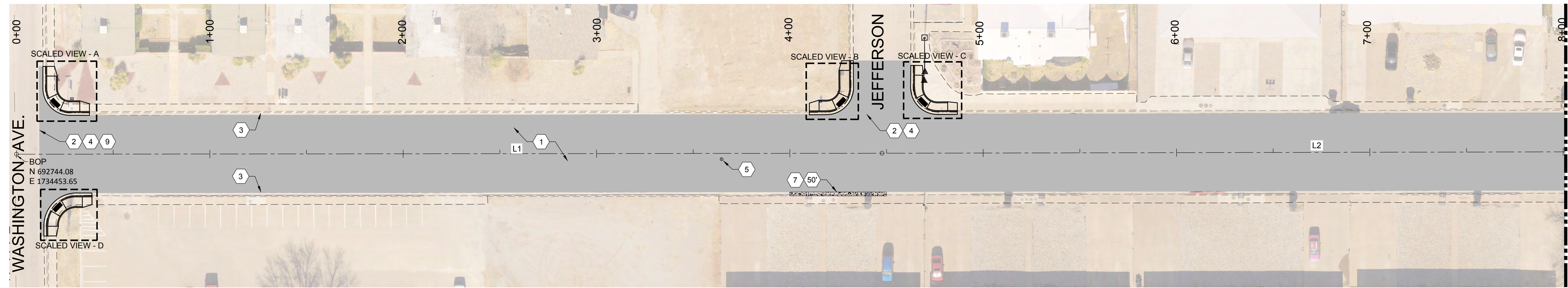
SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

- CONSTRUCTION PLAN KEY NOTES:**
- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
 - MATCH EXISTING PAVEMENT ELEVATION.
 - EXISTING CURB & GUTTER NOT TO BE DISTURBED.
 - APPLY TACK COAT TO PAVEMENT CUT.
 - ADJUST MANHOLE TO GRADE.
 - CAUTION: OVERHEAD UTILITY LINES.
 - CURB & GUTTER TO BE REMOVED AND REPLACED.
 - ADJUST VALVE BOX TO GRADE.
 - SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

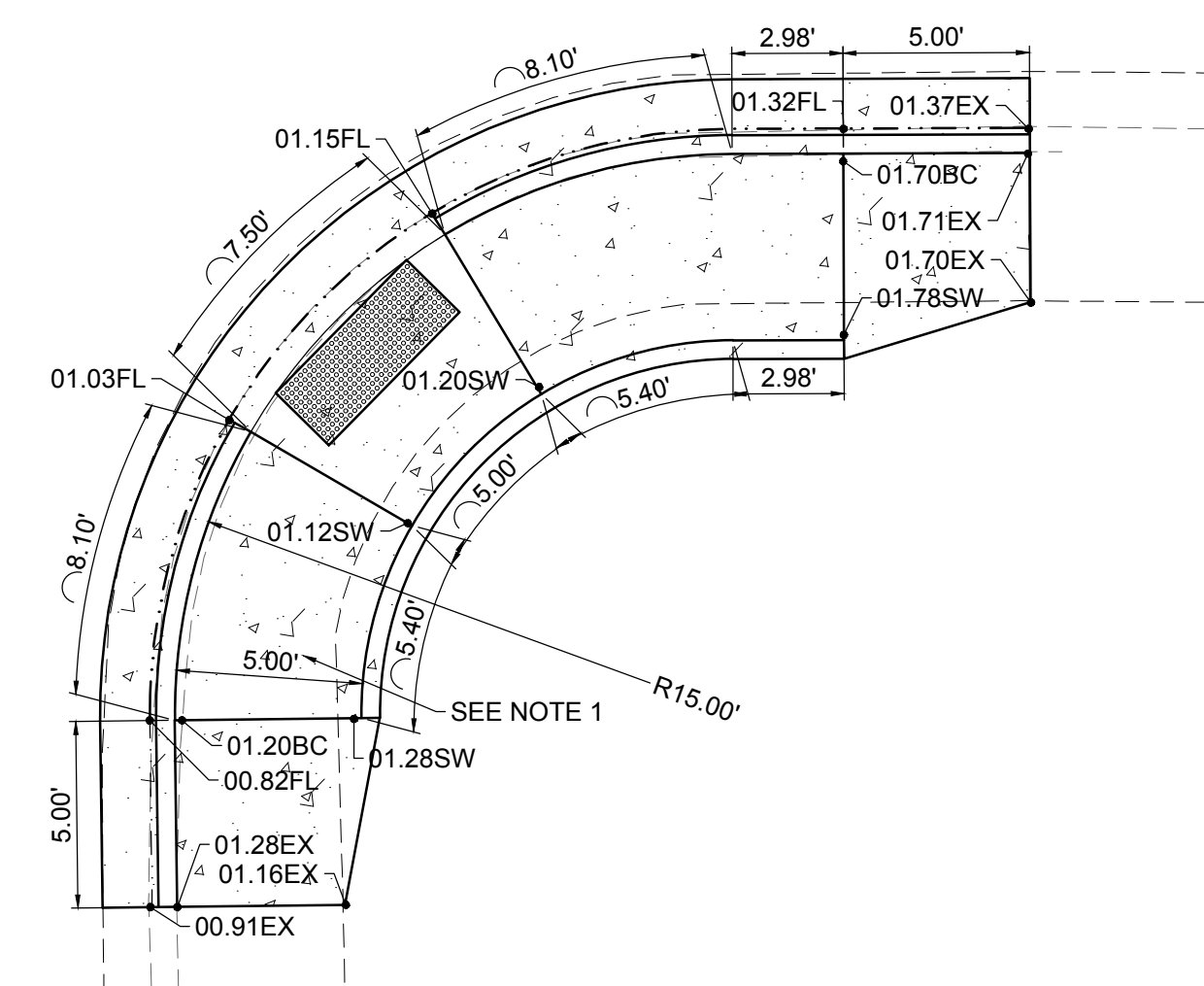
- NOTES:**
- REMOVE EXISTING CONCRETE DRAINAGE SWALE AND REPLACE WITH NEW SIDEWALK.
 - NO SIDEWALK CURRENTLY EXISTS ON THE WEST SIDE OF THE ASPEN/JEFFERSON INTERSECTION.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

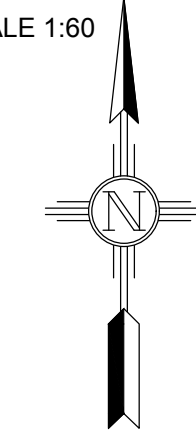


MATCH LINE-STA: 8+00 SEE SHEET RC21.0



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

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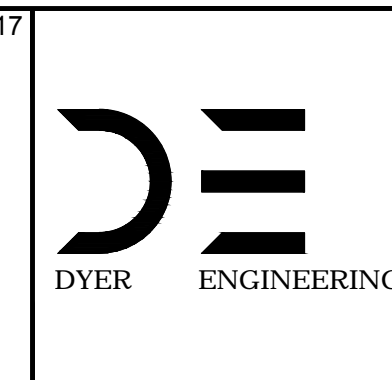
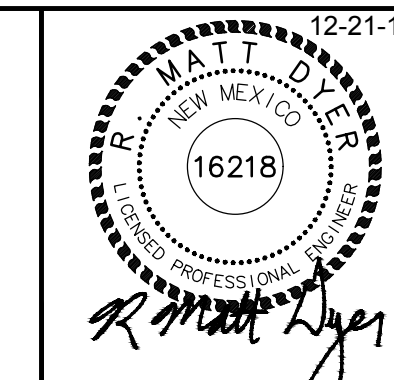
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Street Maintenance Program FY 2017

ASPEN DRIVE ROAD CONSTRUCTION PLAN STATION 0+14 TO 8+00

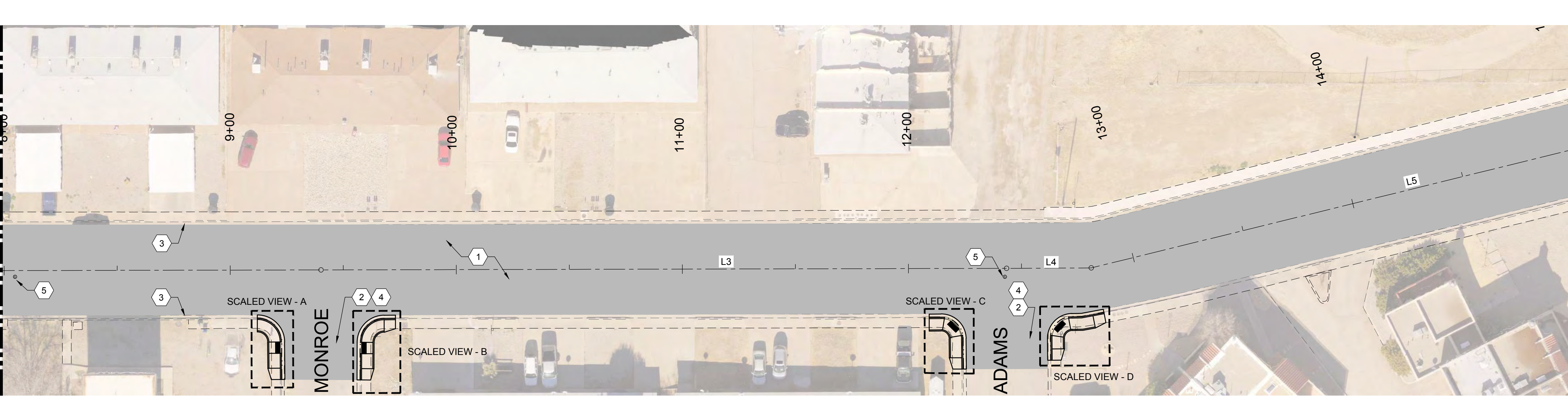
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 20.0
Sheet 36 of 103	
EN1701	

MATCH LINE-STA: 8+00 SEE SHEET RC20.0



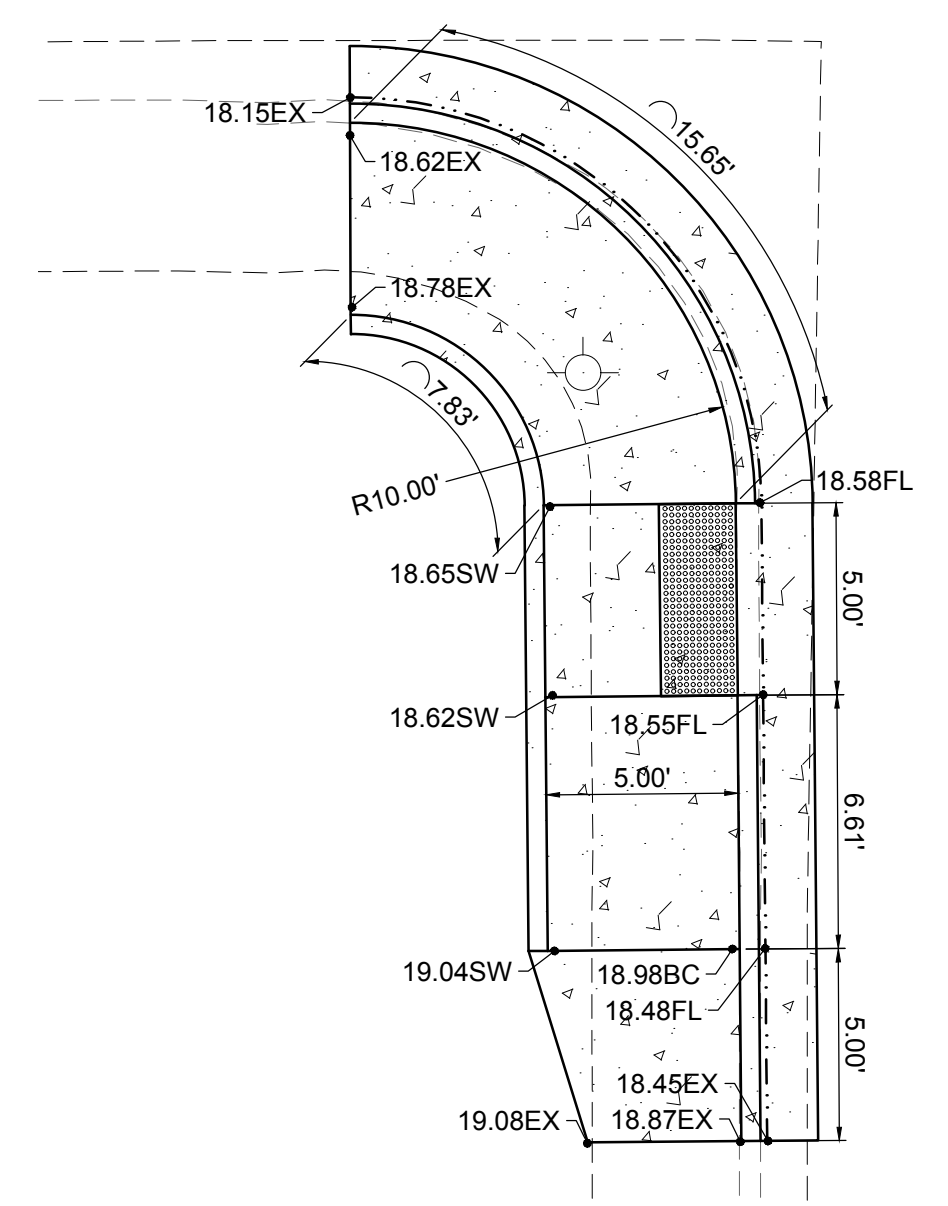
MATCH LINE-STA: 15+00 SEE SHEET RC22.0

- CONSTRUCTION PLAN KEY NOTES:**
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
 2. MATCH EXISTING PAVEMENT ELEVATION.
 3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
 4. APPLY TACK COAT TO PAVEMENT CUT.
 5. ADJUST MANHOLE TO GRADE.
 6. CAUTION: OVERHEAD UTILITY LINES.
 7. CURB & GUTTER TO BE REMOVED AND REPLACED.
 8. ADJUST VALVE BOX TO GRADE.

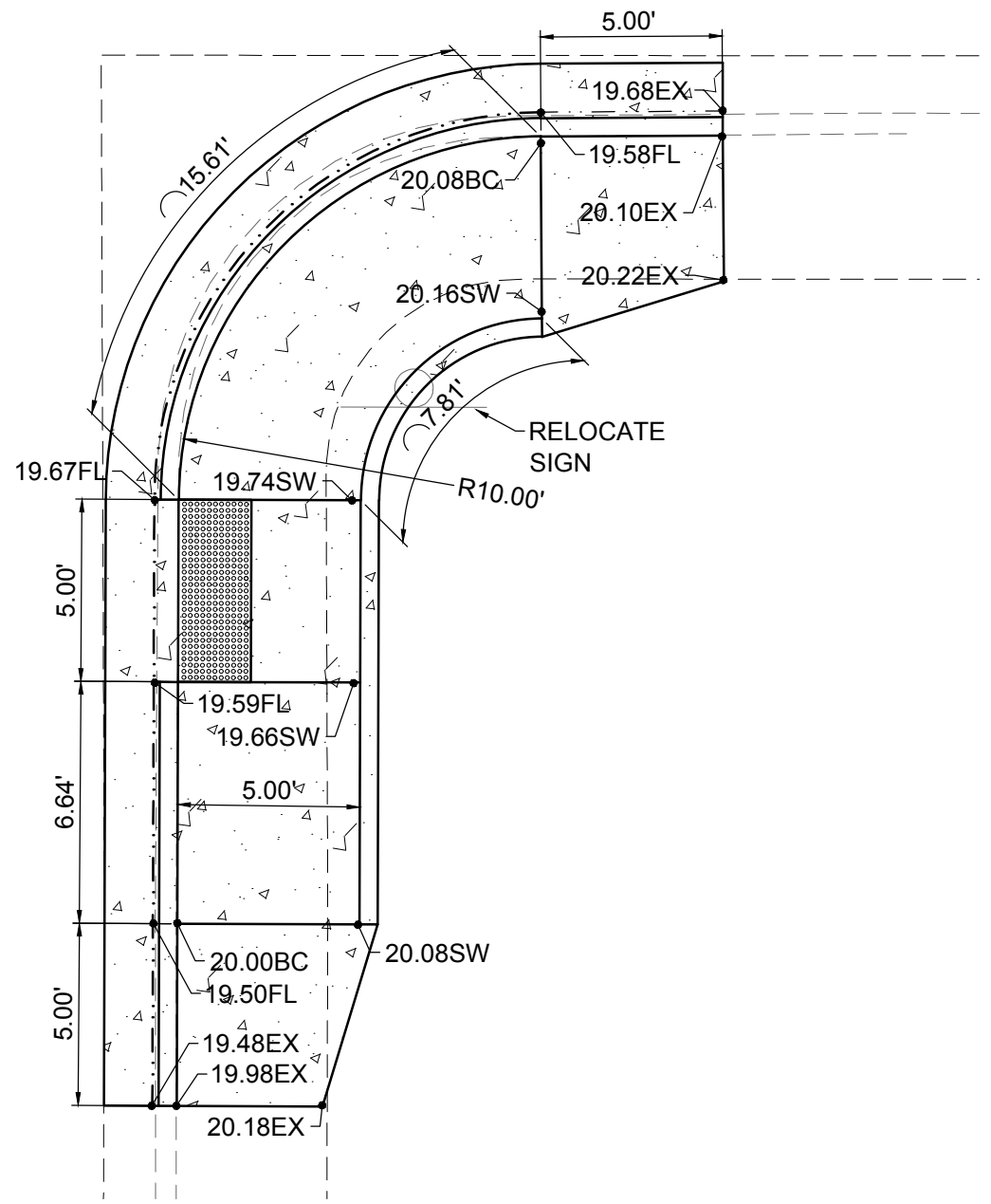
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

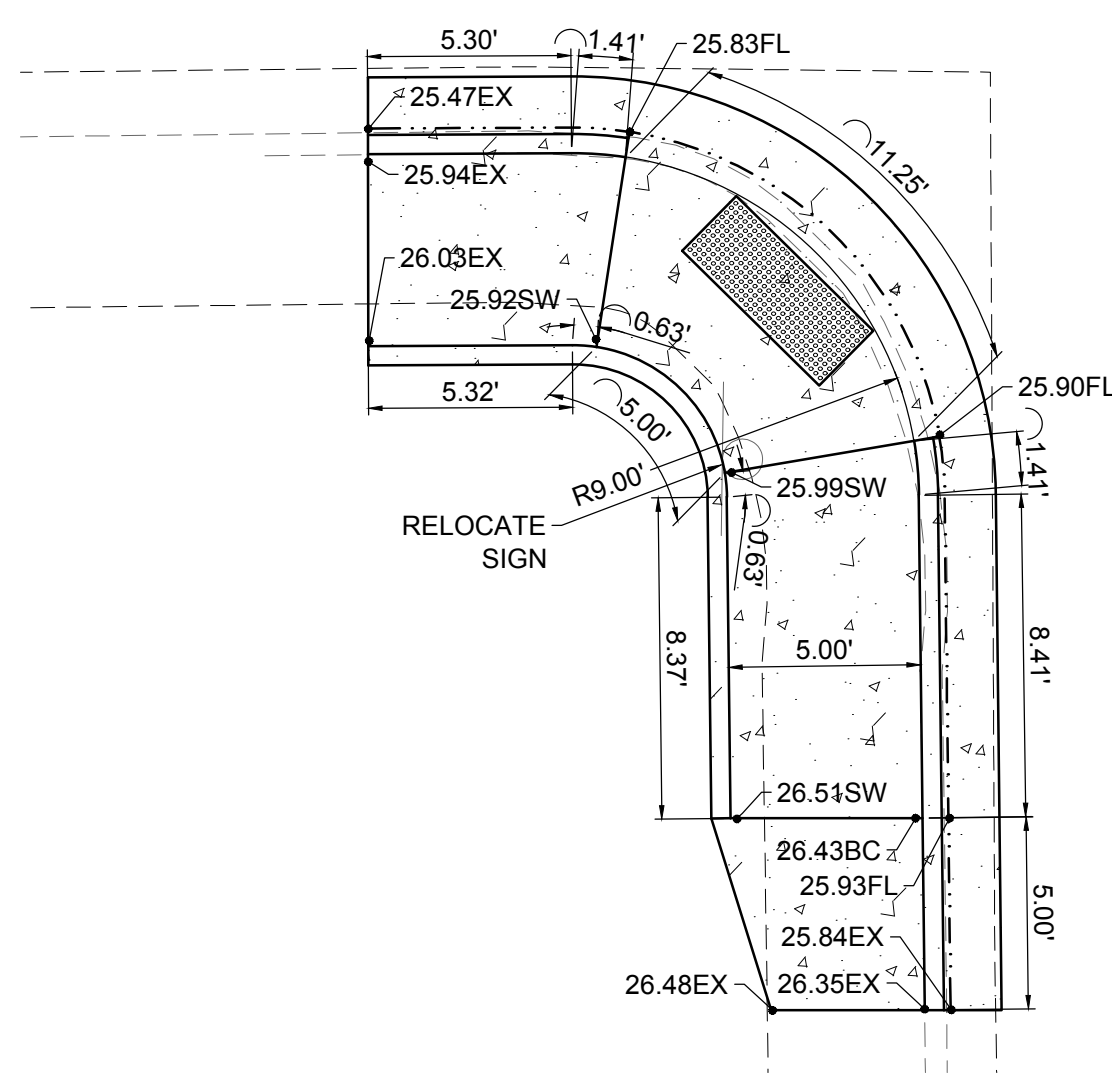
ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



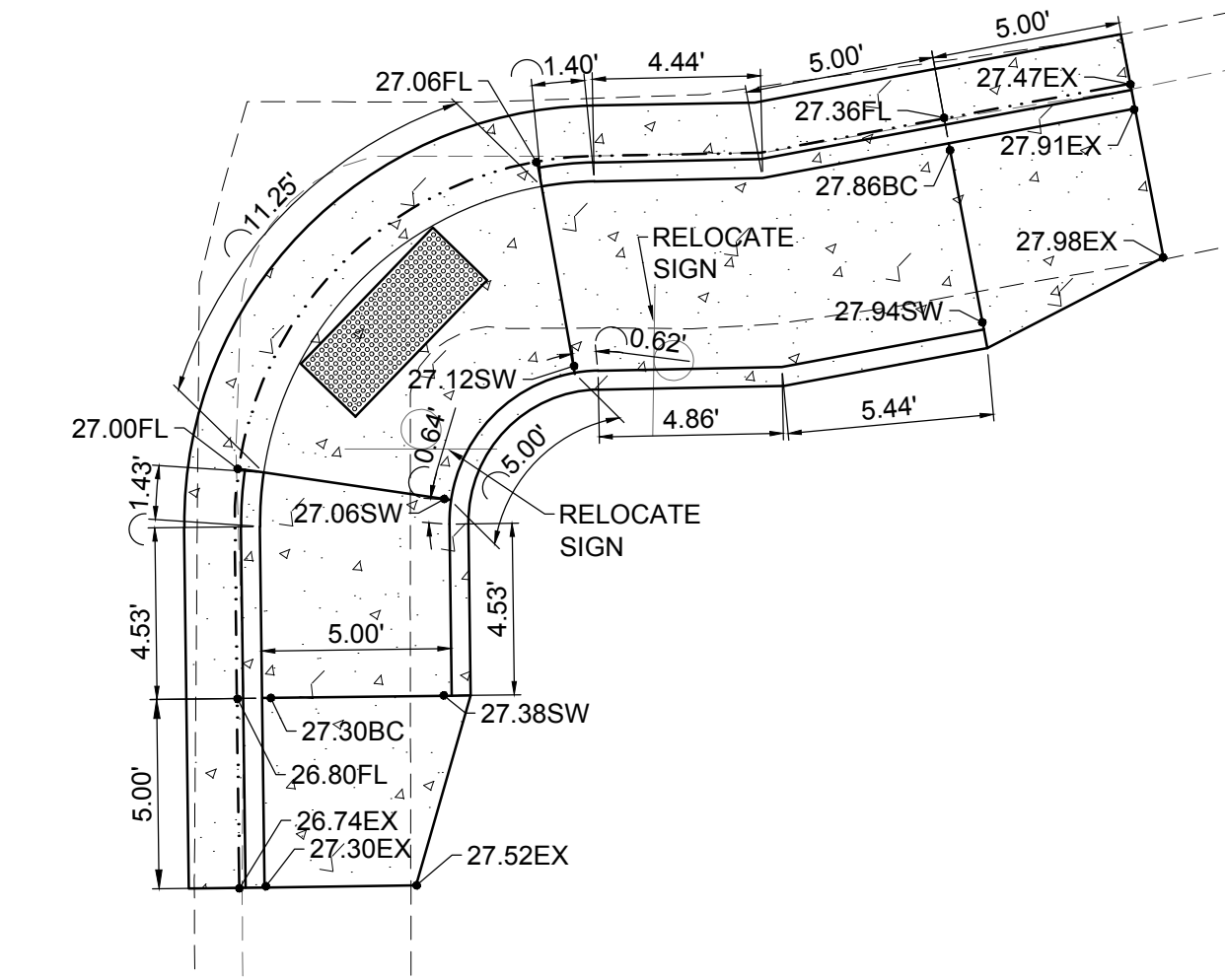
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

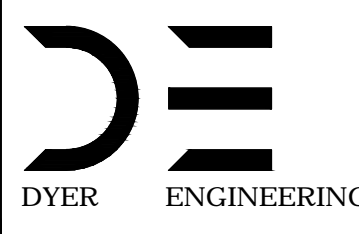
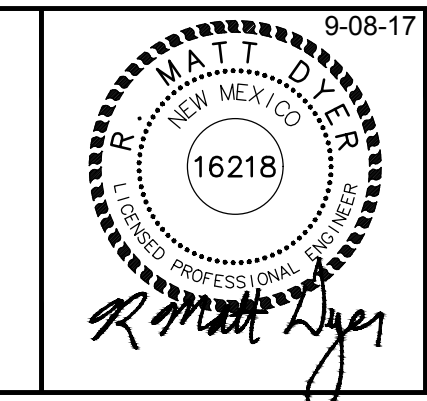


SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

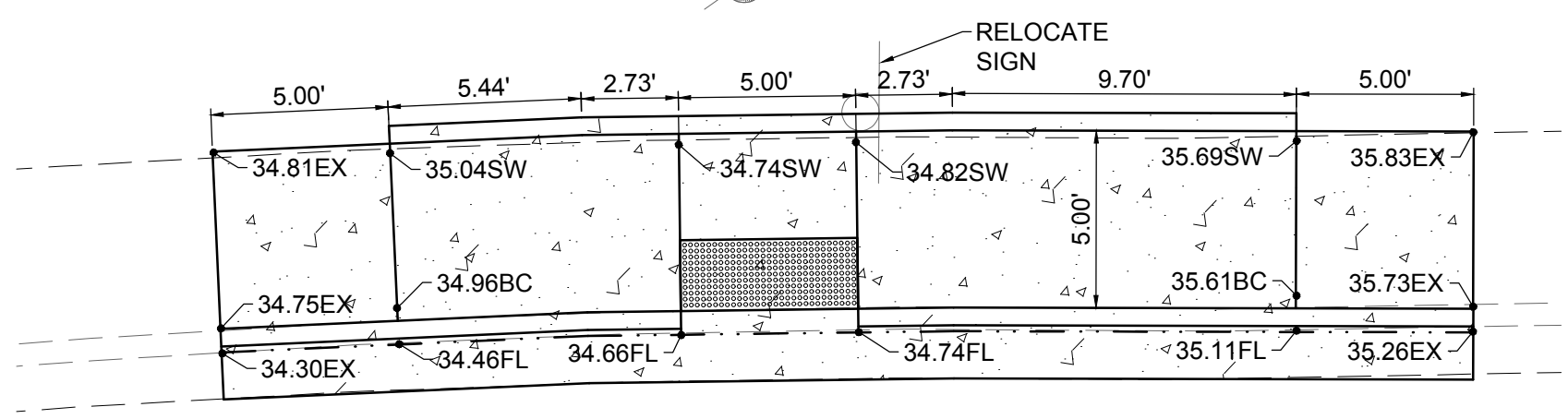


Street Maintenance Program FY 2017
ASPEN DRIVE ROAD CONSTRUCTION PLAN
STATION 8+00 TO 15+00
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.: RC 21.0
Sheet 37 of 103
EN1701



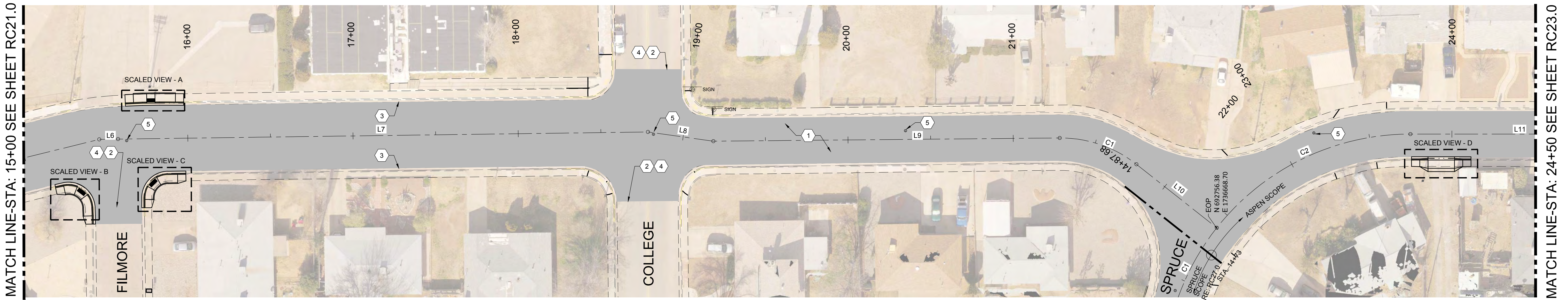
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY, TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
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6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

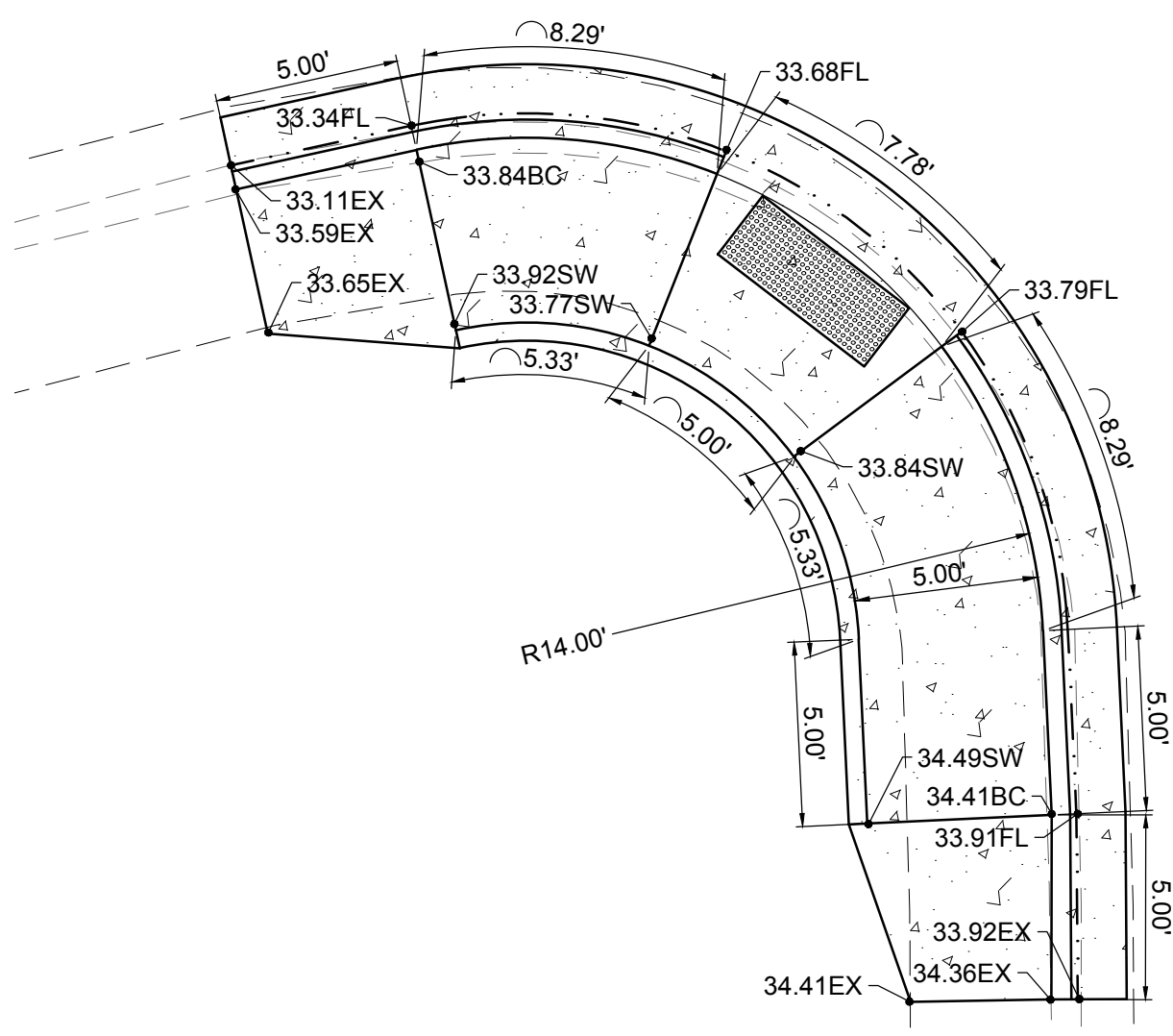
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

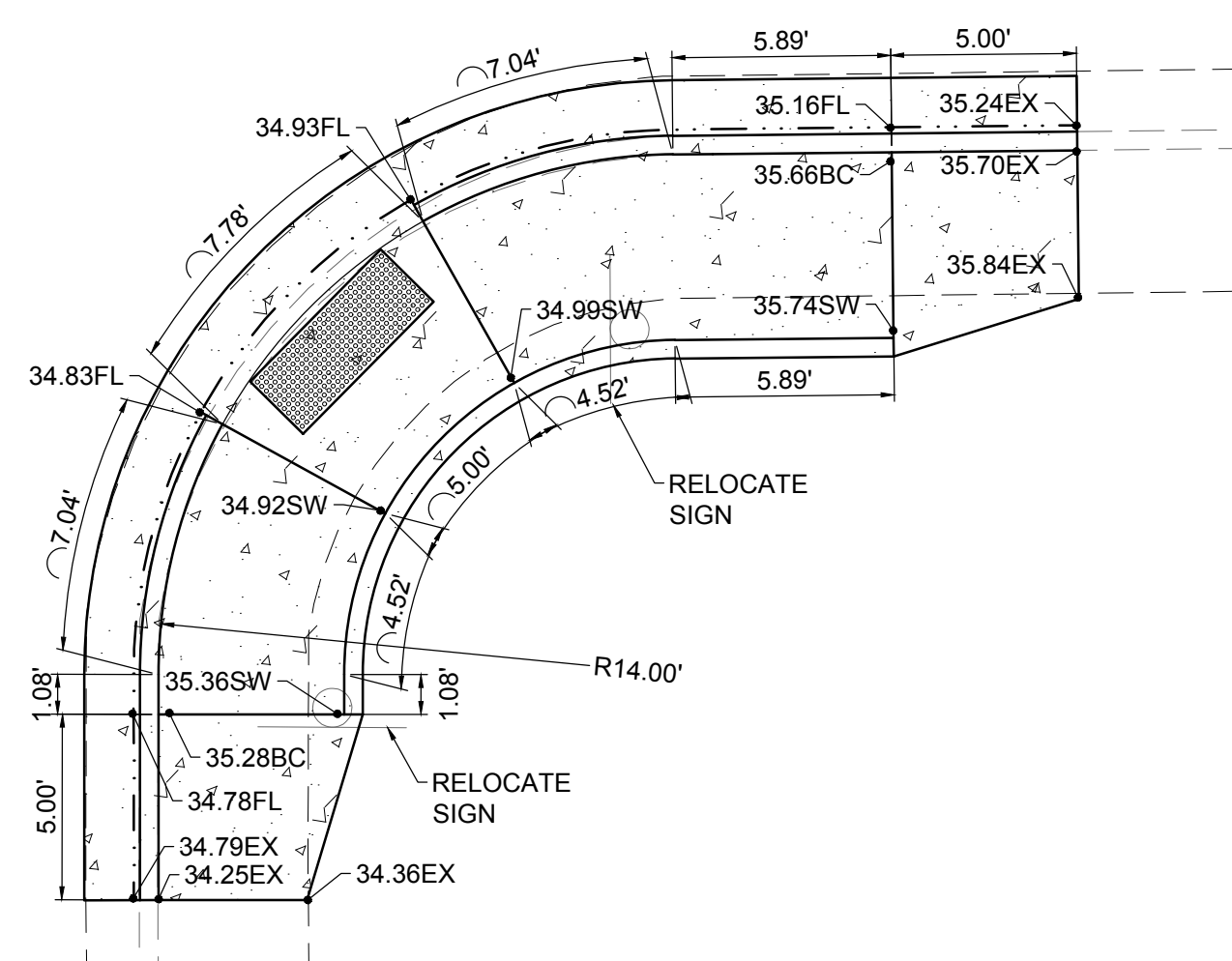


MATCH LINE-STA: 15+00 SEE SHEET RC21.0

MATCH LINE-STA: 24+50 SEE SHEET RC23.0

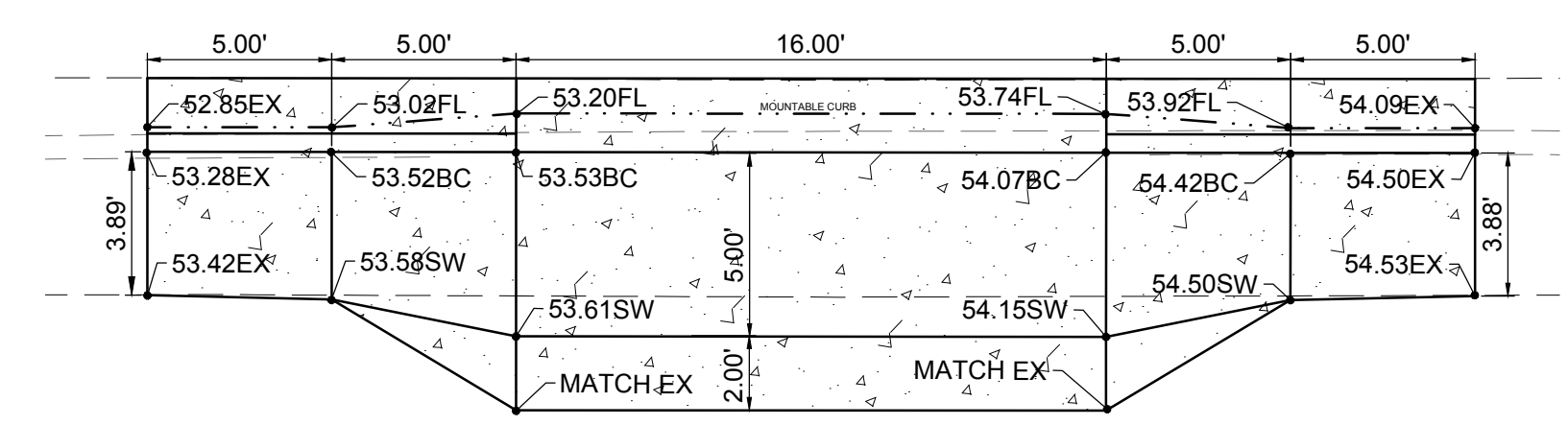
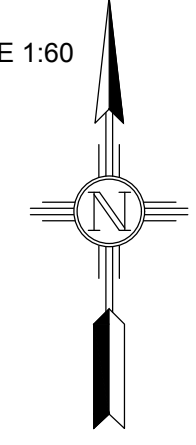


SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



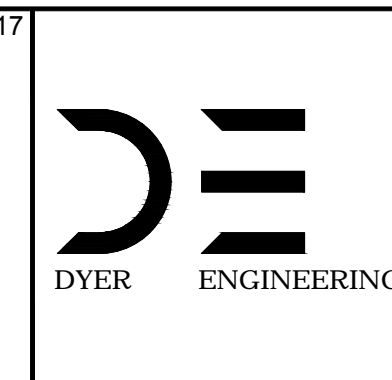
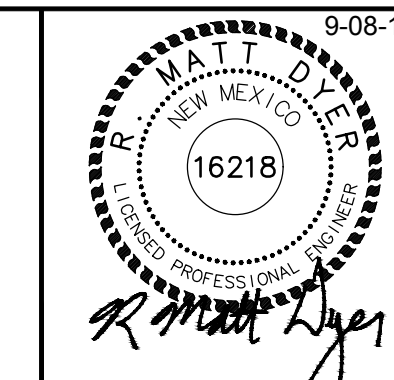
SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



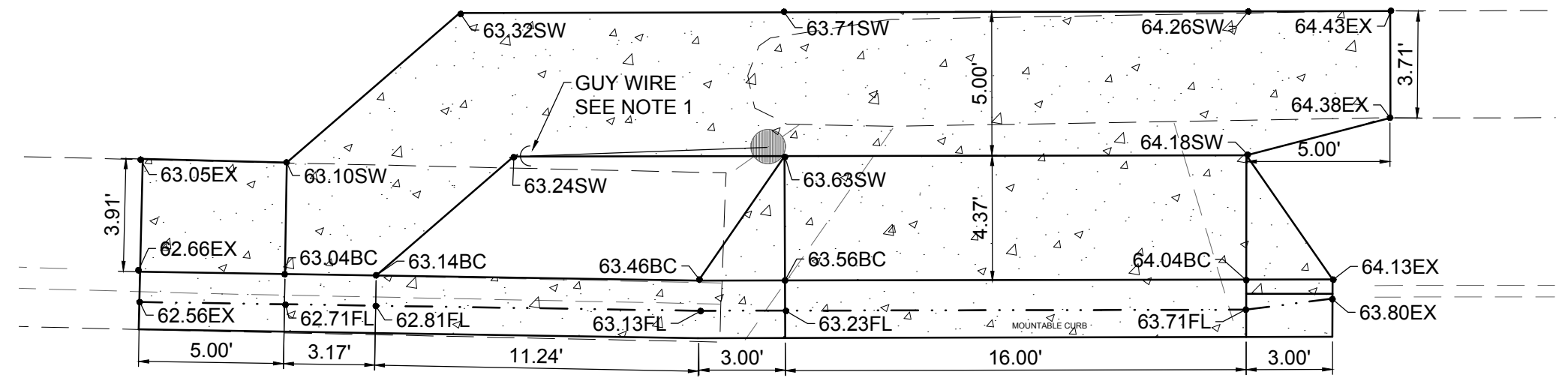
Street Maintenance Program FY 2017
ASPEN DRIVE ROAD CONSTRUCTION PLAN
STATION 15+00 TO 24+50

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



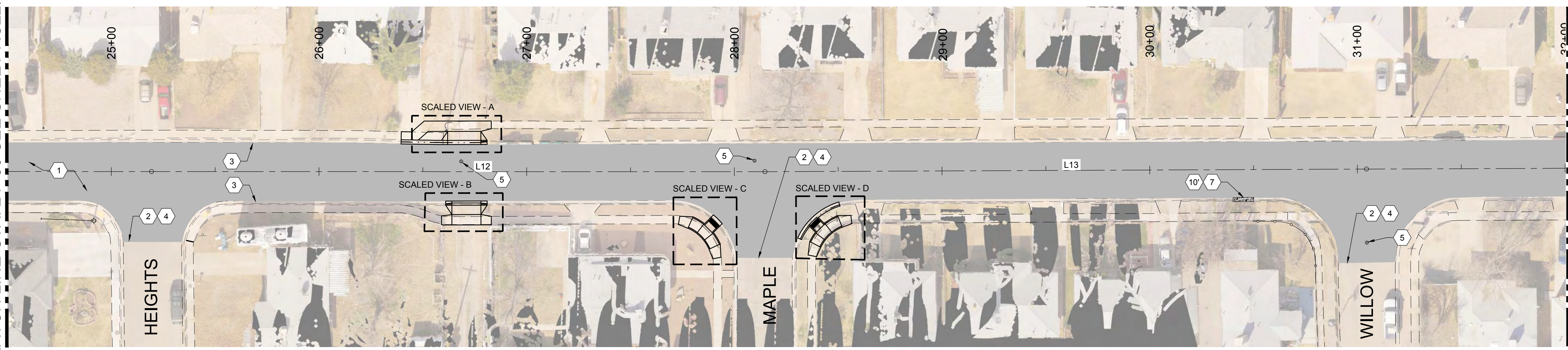
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 22.0
Sheet 38 of 103	
EN1701	

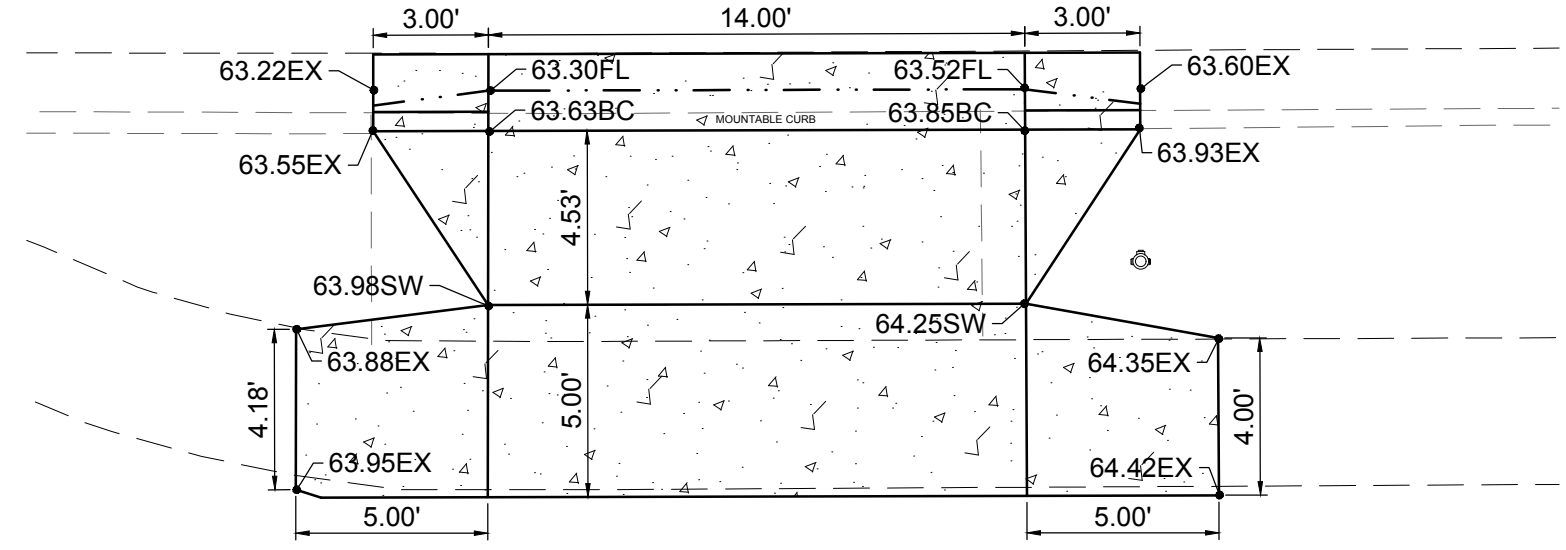
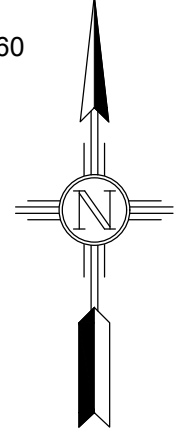


SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

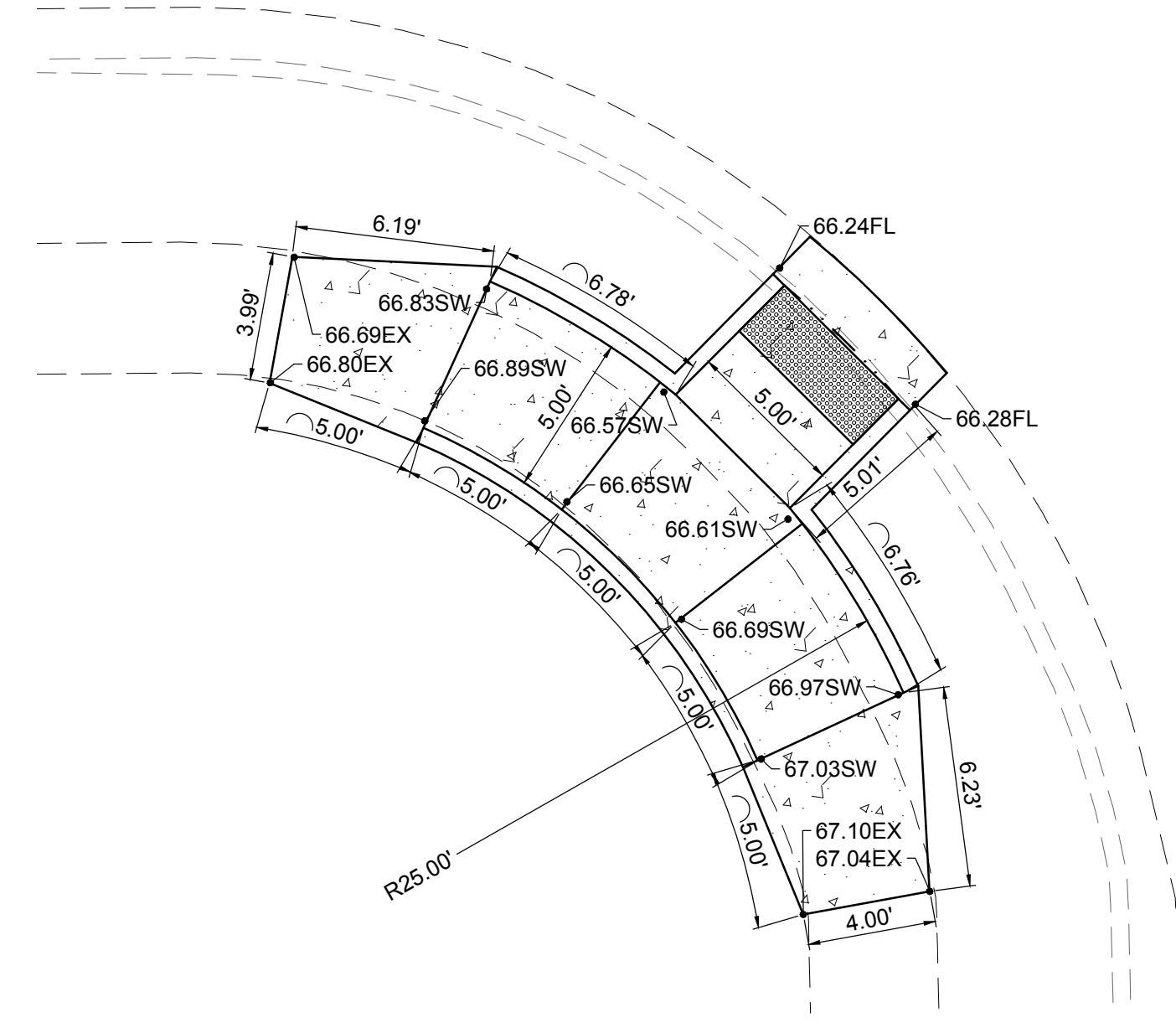
MATCH LINE-STA: 24+50 SEE SHEET RC22.0



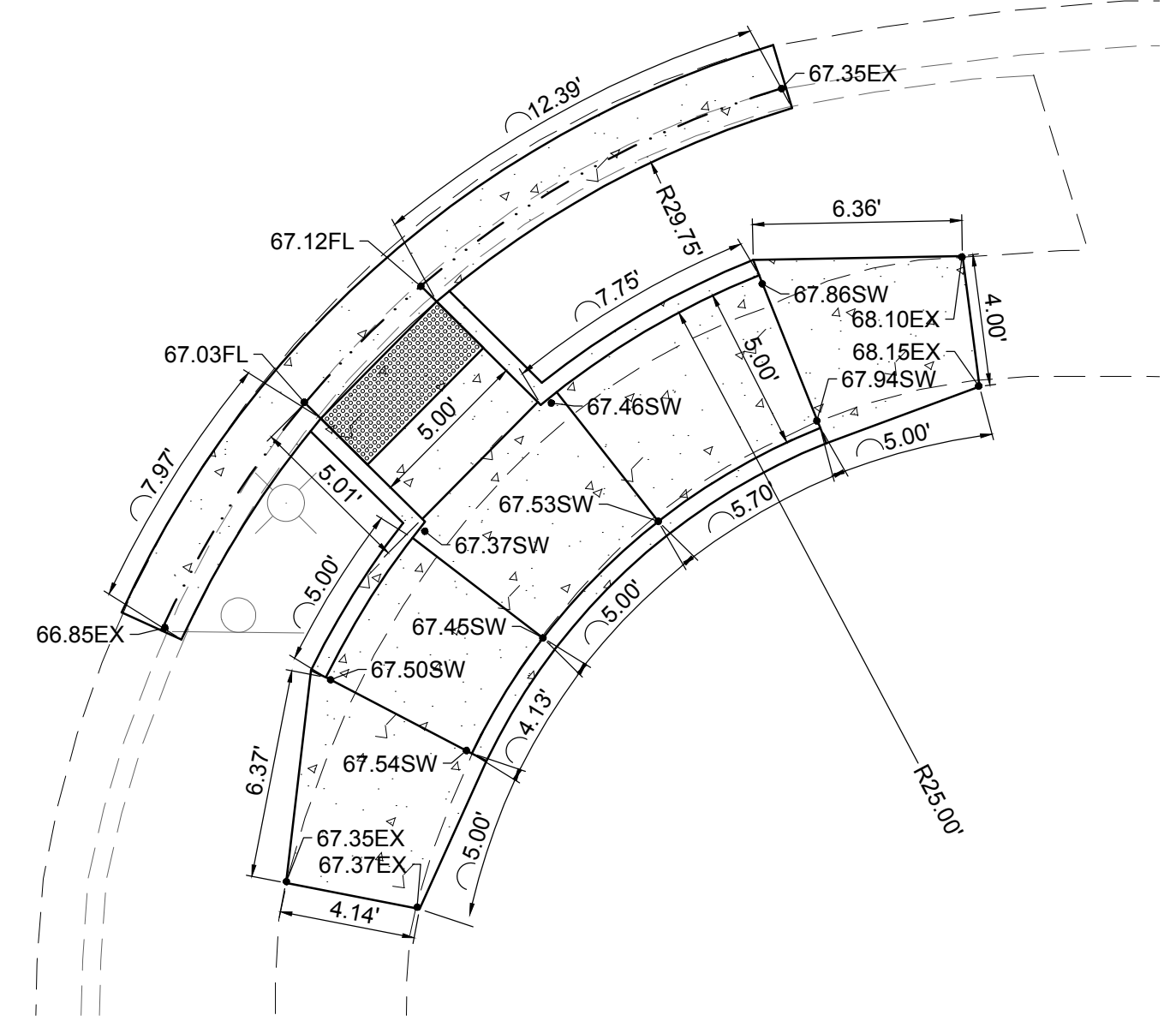
ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

- NOTES:
- CONTRACTOR SHALL CONSTRUCT NEW SIDEWALK AROUND EXISTING TELEPHONE POLE GUY WIRE.

CONSTRUCTION PLAN KEY NOTES:

- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB & GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVERHEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED AND REPLACED.
- ADJUST VALVE BOX TO GRADE.

LEGEND

- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

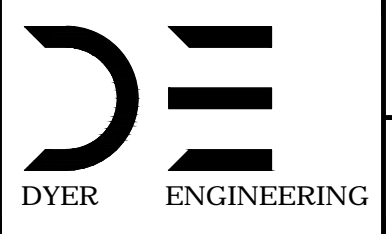
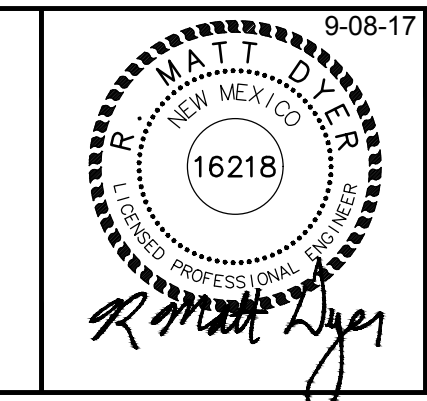
NMOC
NEW MEXICO
Professional Engineer
No. 16218



Street Maintenance Program FY 2017

ASPEN DRIVE ROAD CONSTRUCTION PLAN STATION 24+50 TO 32+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010

Drawn By: AD Designed By: AD

Checked By: MD Approved By: MD

Scale: Horiz.: VARIES Vert.: n/a

Sheet No.: RC 23.0

Sheet 39 of 103

EN1701

MATCH LINE-STA: 32+00 SEE SHEET RC23.0

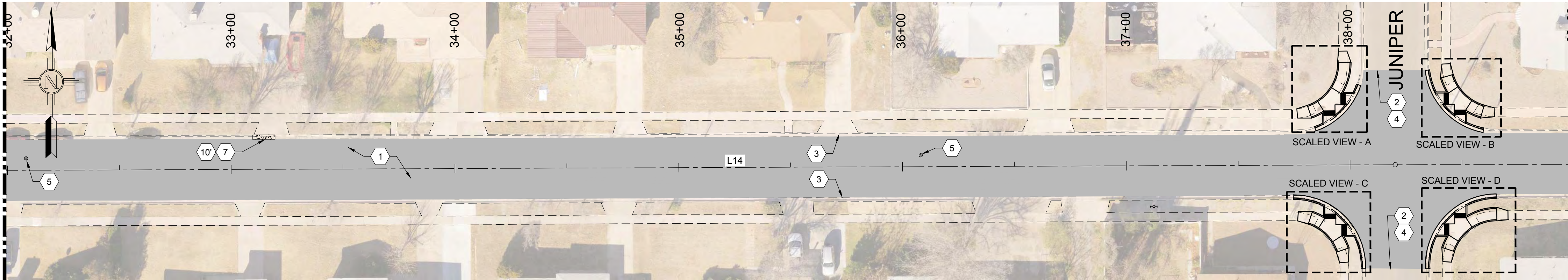
MATCH LINE-STA: 39+00 SEE SHEET RC25.0

CONSTRUCTION PLAN KEY NOTES:

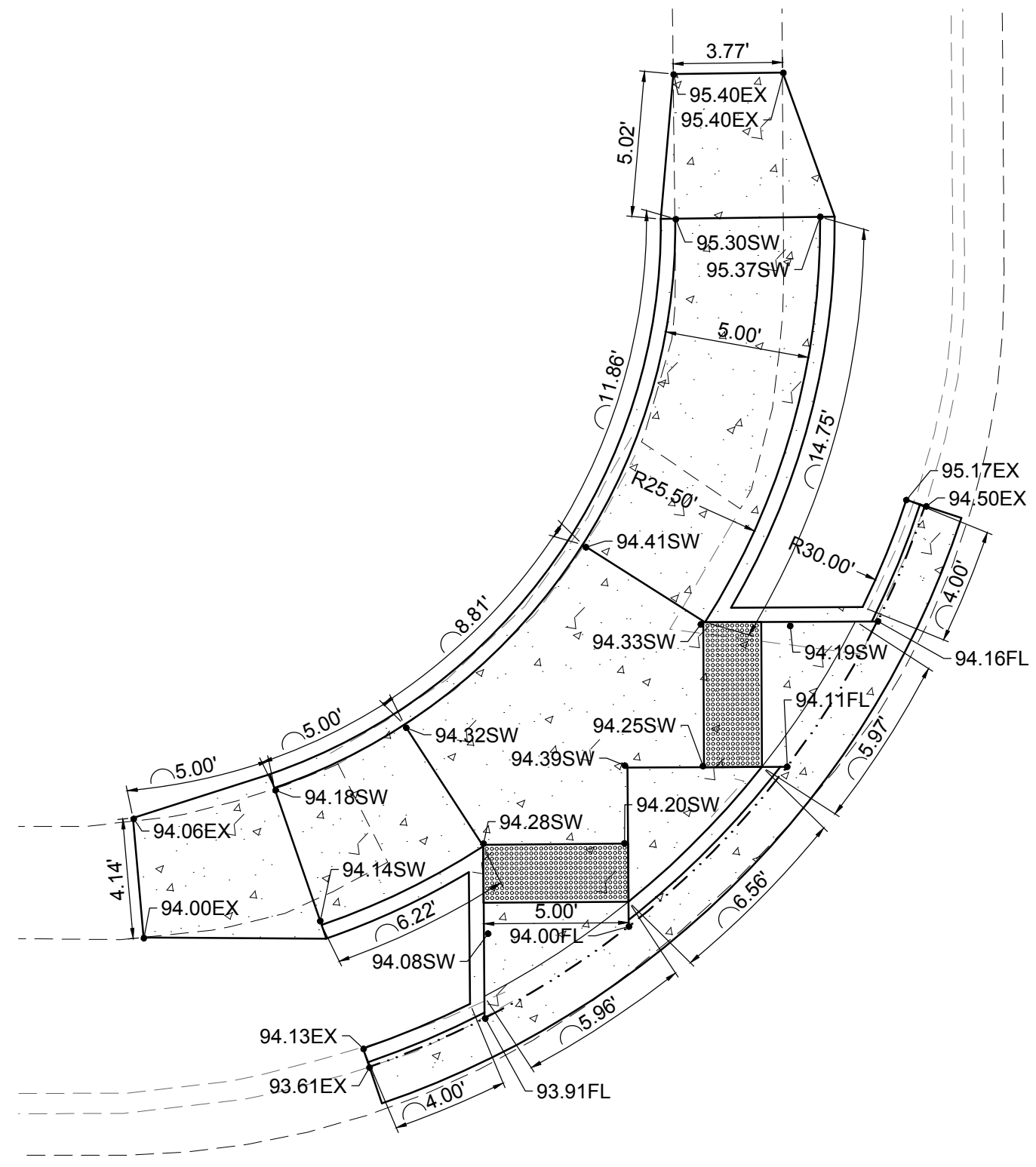
- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB & GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVERHEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED AND REPLACED.
- ADJUST VALVE BOX TO GRADE.

LEGEND

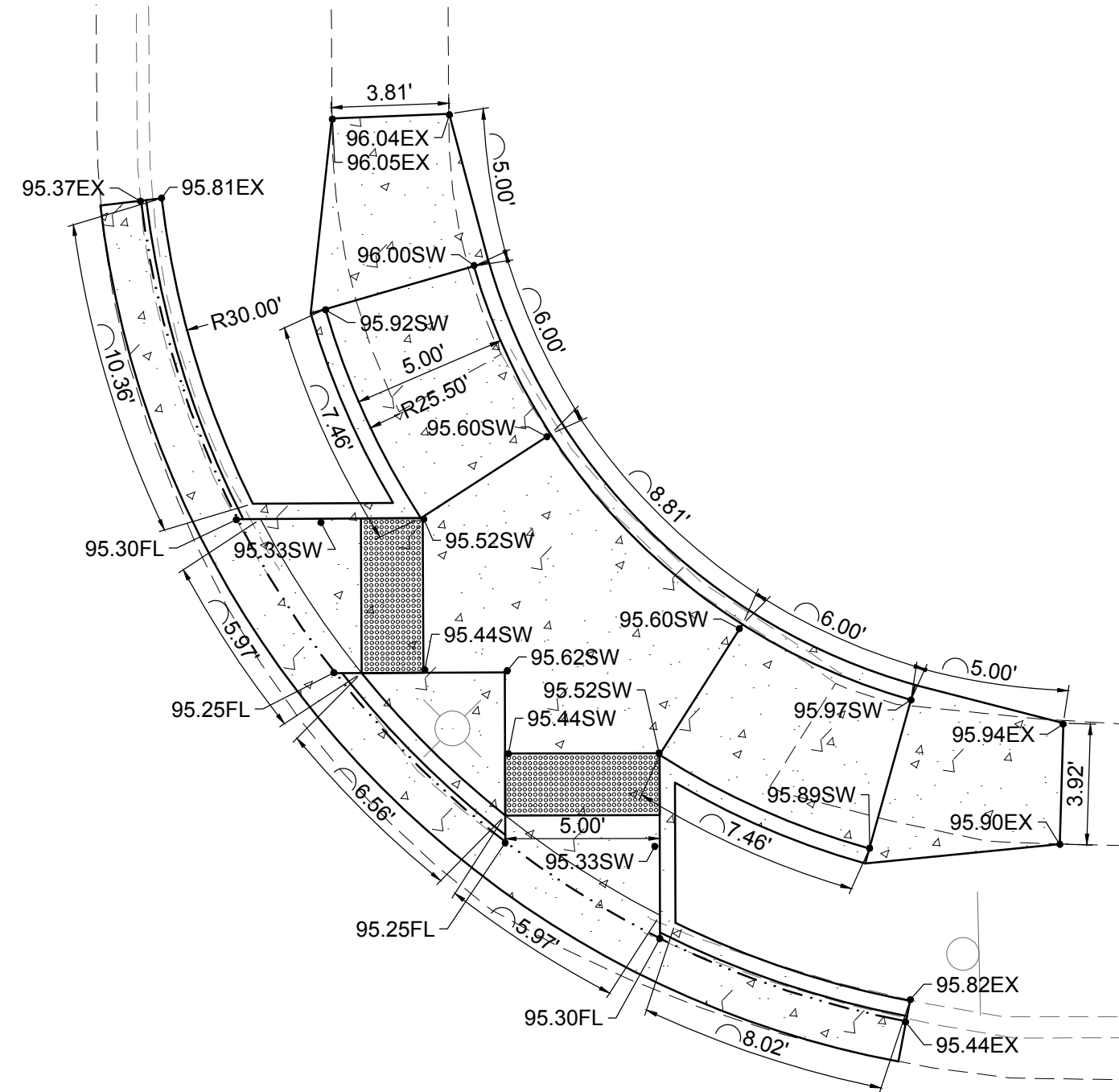
- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES



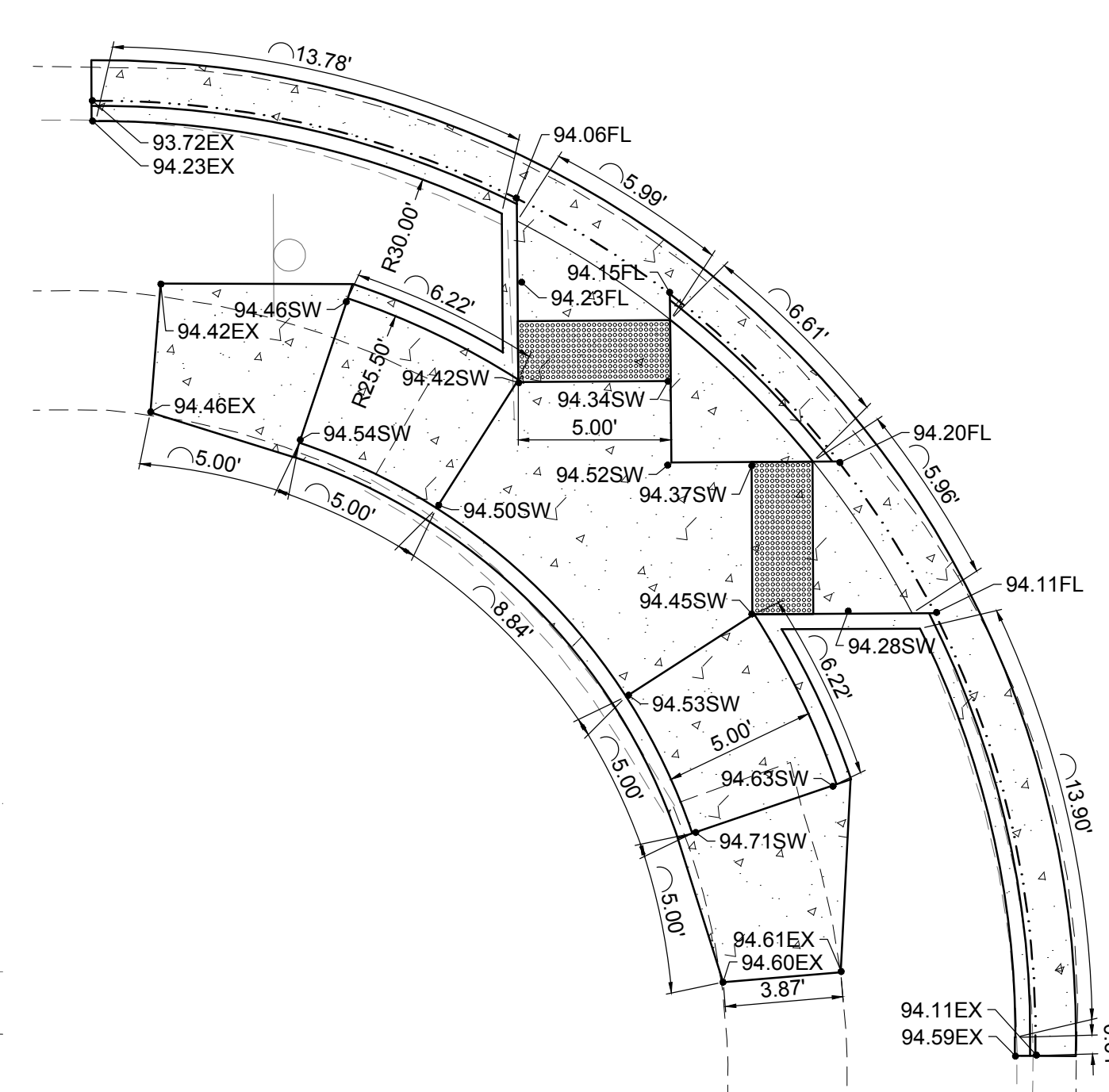
ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



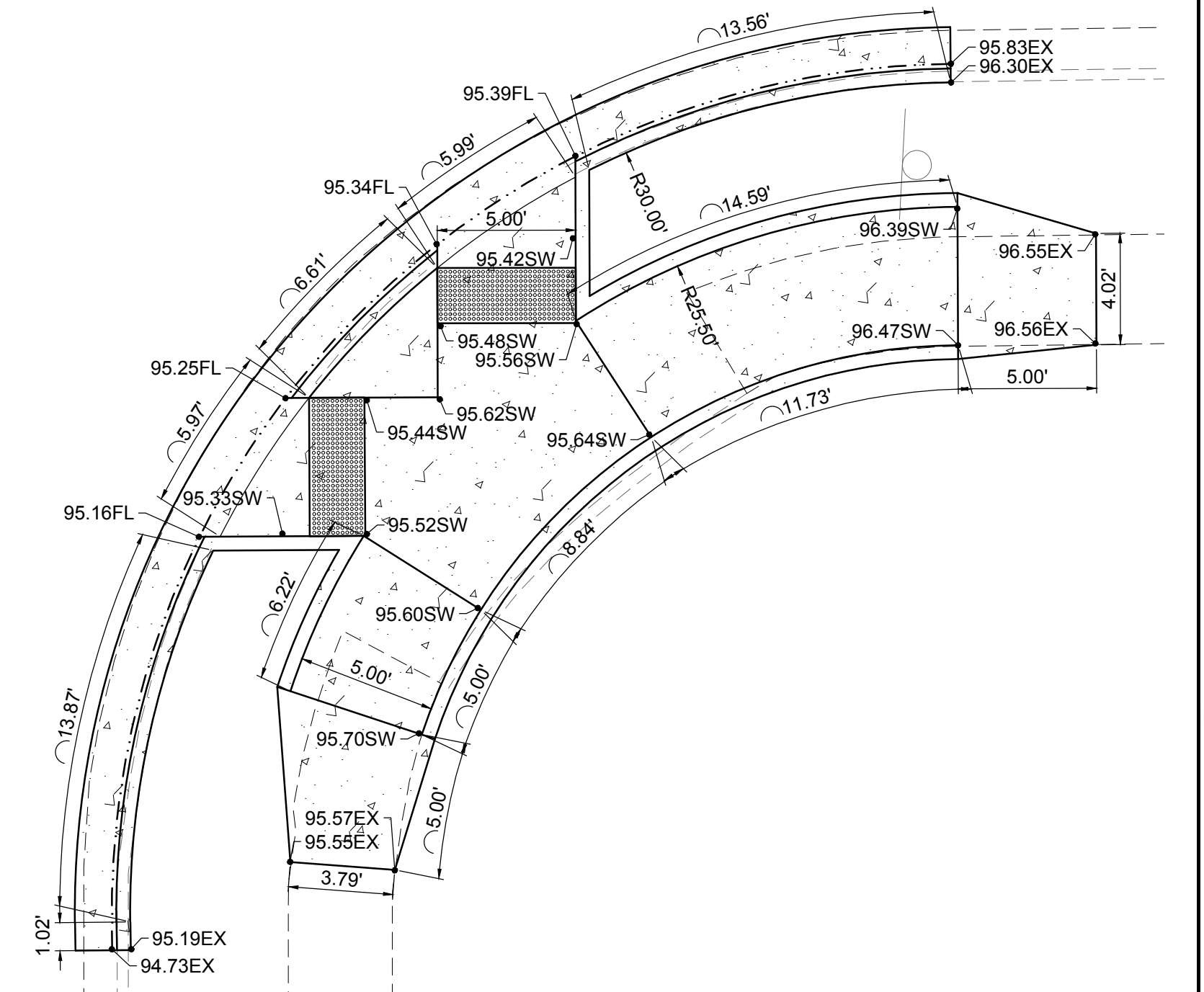
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

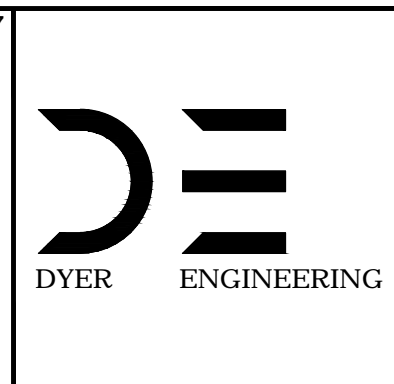
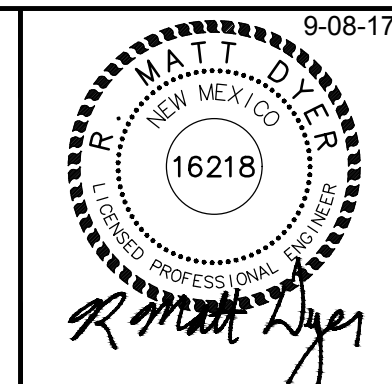
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

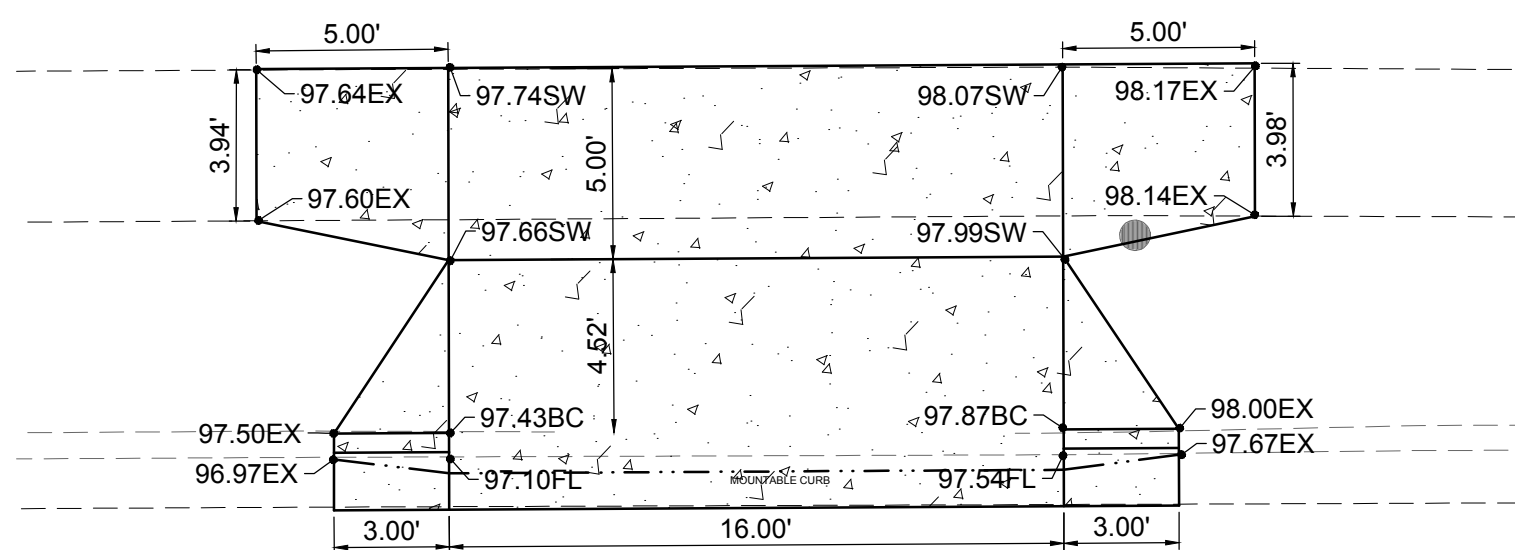
ASPEN DRIVE ROAD CONSTRUCTION PLAN STATION 32+00 TO 39+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

Sheet No.:	RC 24.0
Sheet 40 of 103	
EN1701	



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

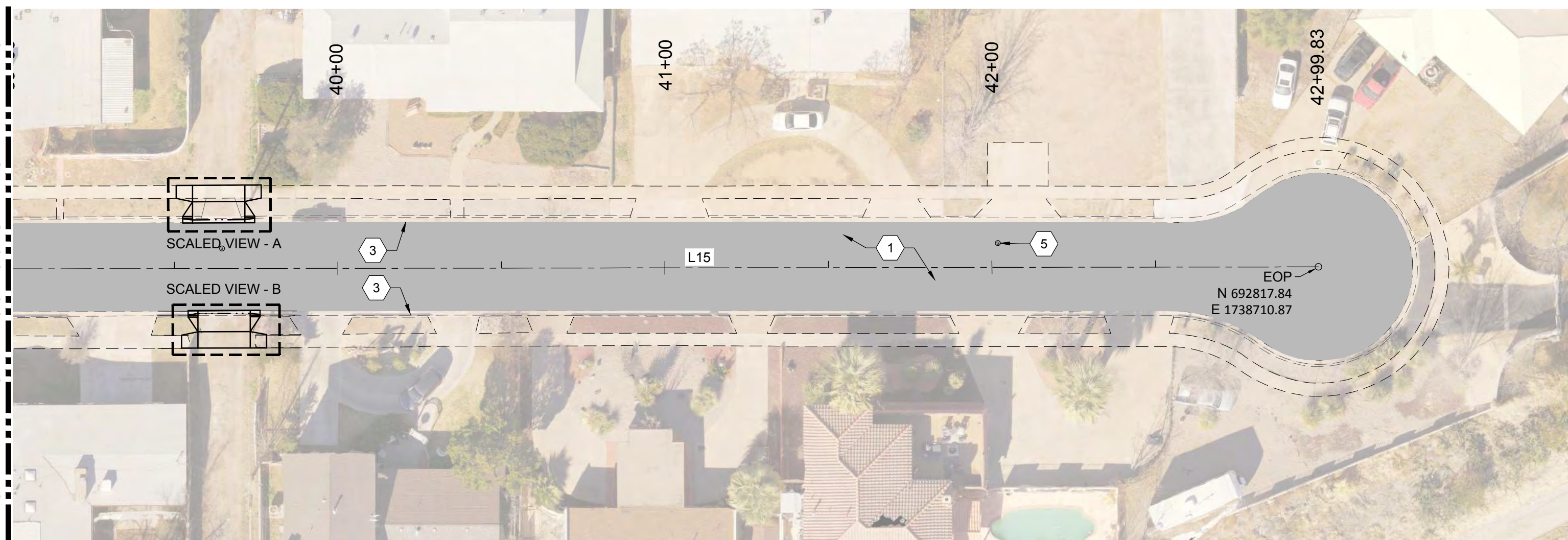
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

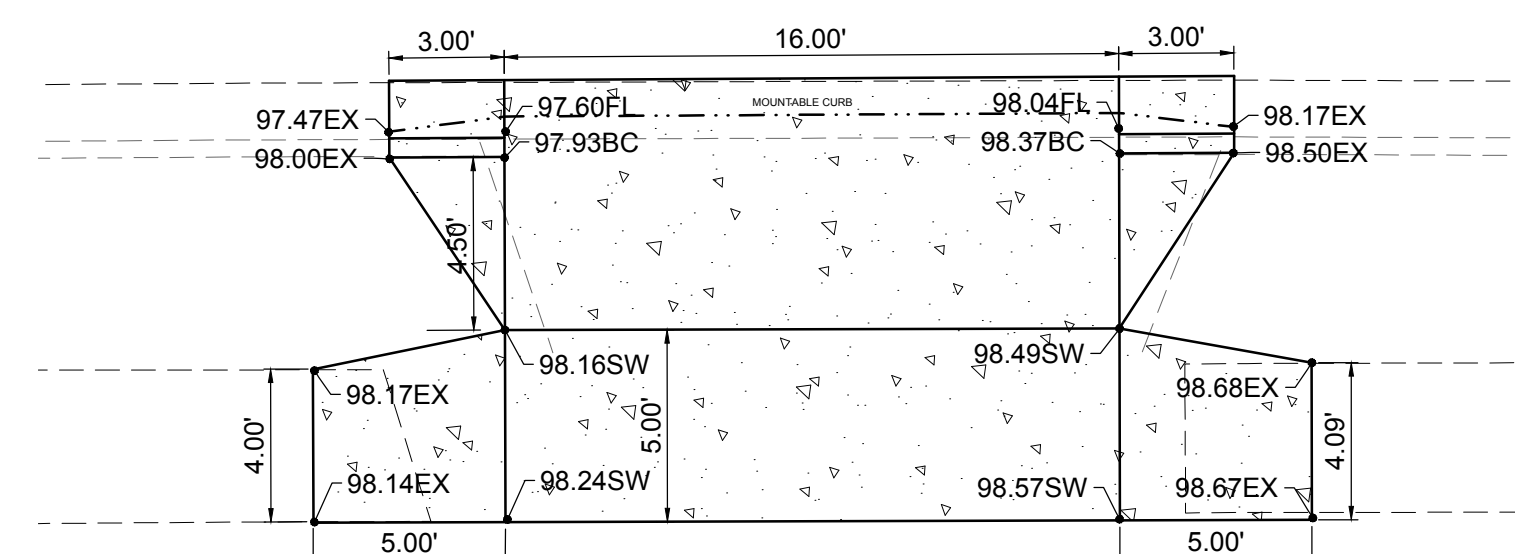
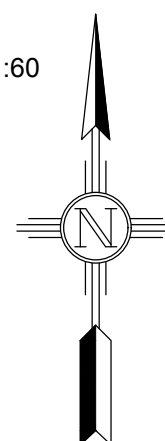
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

MATCH LINE-STA: 39+00 SEE SHEET RC24.0



ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

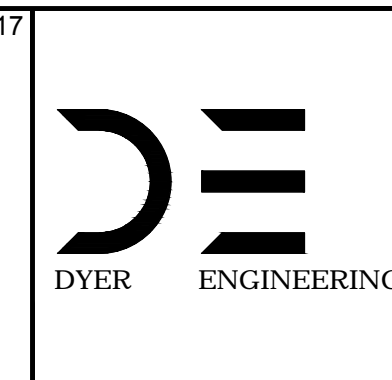
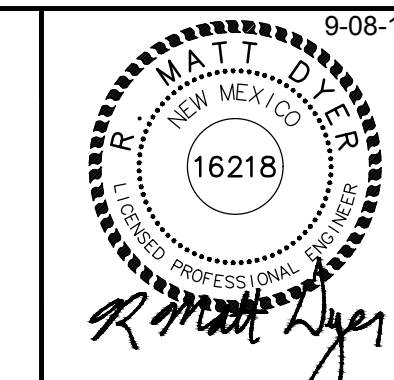
NMOC logo and text: "NEW MEXICO OPEN CONSTRUCTION" and "2017" with a stylized '2'.



Street Maintenance Program FY 2017

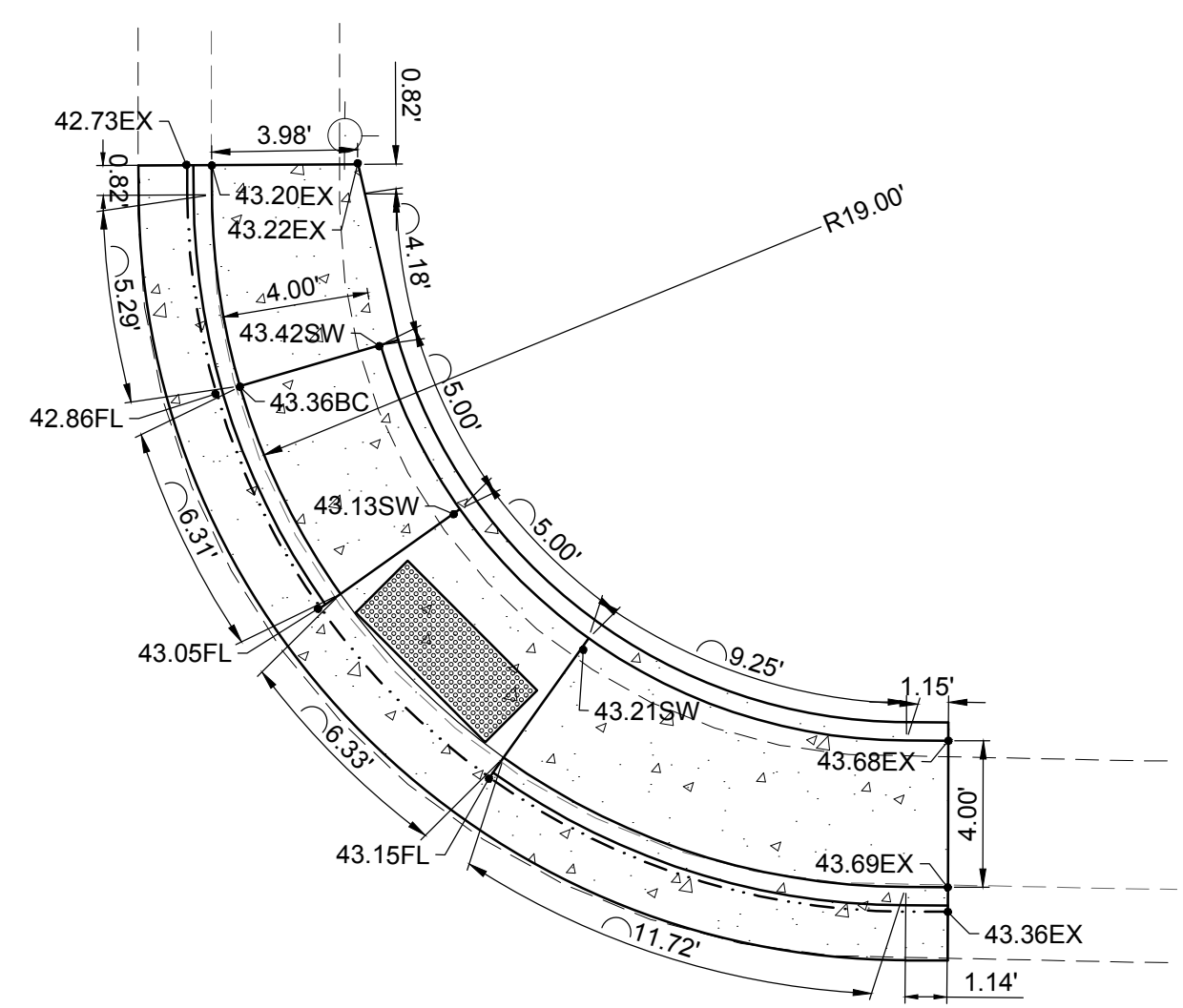
ASPEN DRIVE ROAD CONSTRUCTION PLAN STATION 39+00 TO 43+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

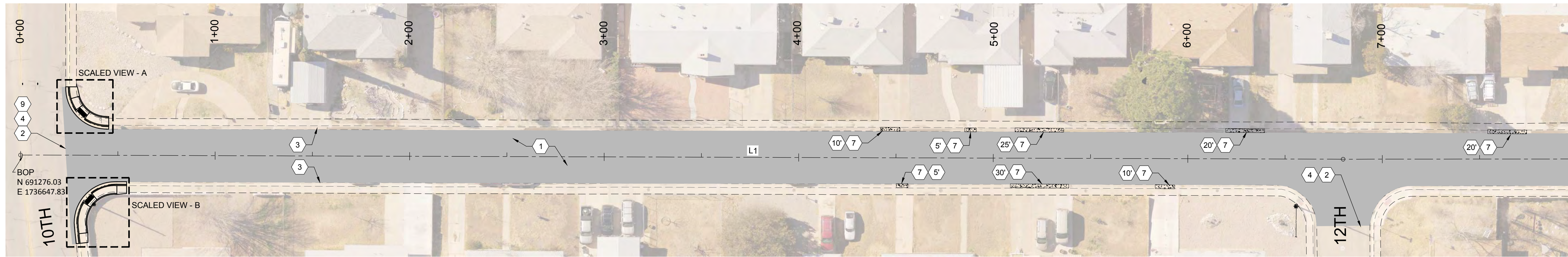


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

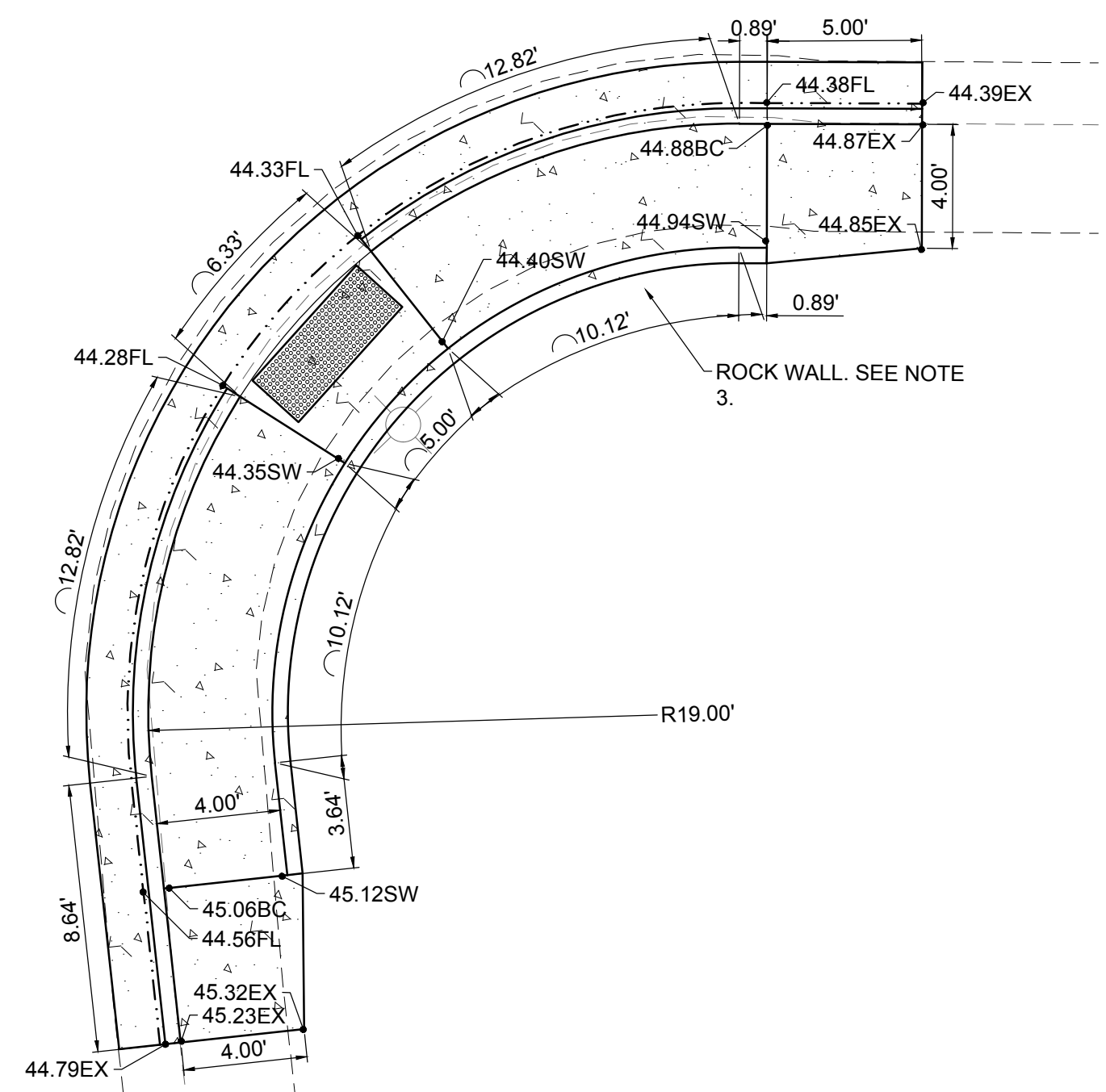
Sheet No.: RC 25.0
Sheet 41 of 103
EN1701



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

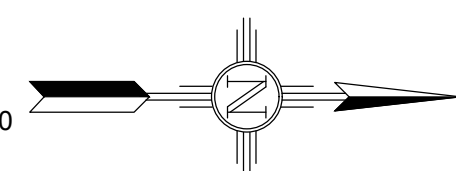


MATCH LINE-STA: 8+00 SEE SHEET RC27.0



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

SPRUCE AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



- NOTES:
1. NOT USED
 2. NOT USED
 3. EXISTING ROCK WALL TO REMAIN UNDISTURBED. CONTRACTOR SHALL ADJUST AND CONSTRUCT NEW SIDEWALK AND CURB RAMPS TO FIT WITH ROCK WALL.

- CONSTRUCTION PLAN KEY NOTES:**
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
 2. MATCH EXISTING PAVEMENT ELEVATION.
 3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
 4. APPLY TACK COAT TO PAVEMENT CUT.
 5. ADJUST MANHOLE TO GRADE.
 6. CAUTION: OVERHEAD UTILITY LINES.
 7. CURB & GUTTER TO BE REMOVED AND REPLACED.
 8. ADJUST VALVE BOX TO GRADE.
 9. SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

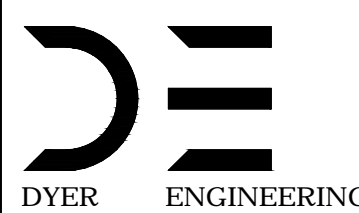
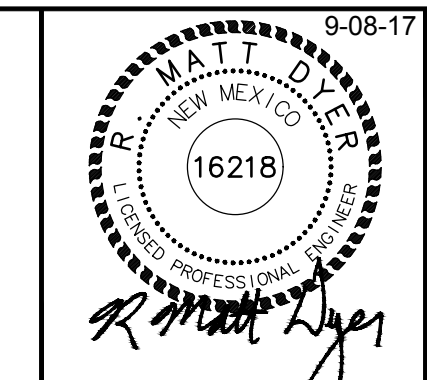
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

N M O C

 PROFESSIONAL ENGINEER
 STATE OF NEW MEXICO
 No. 80032037



Street Maintenance Program FY 2017
SPRUCE AVENUE ROAD CONSTRUCTION PLAN
STATION 0+25 TO 8+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 26.0
Sheet 42 of 103	
EN1701	

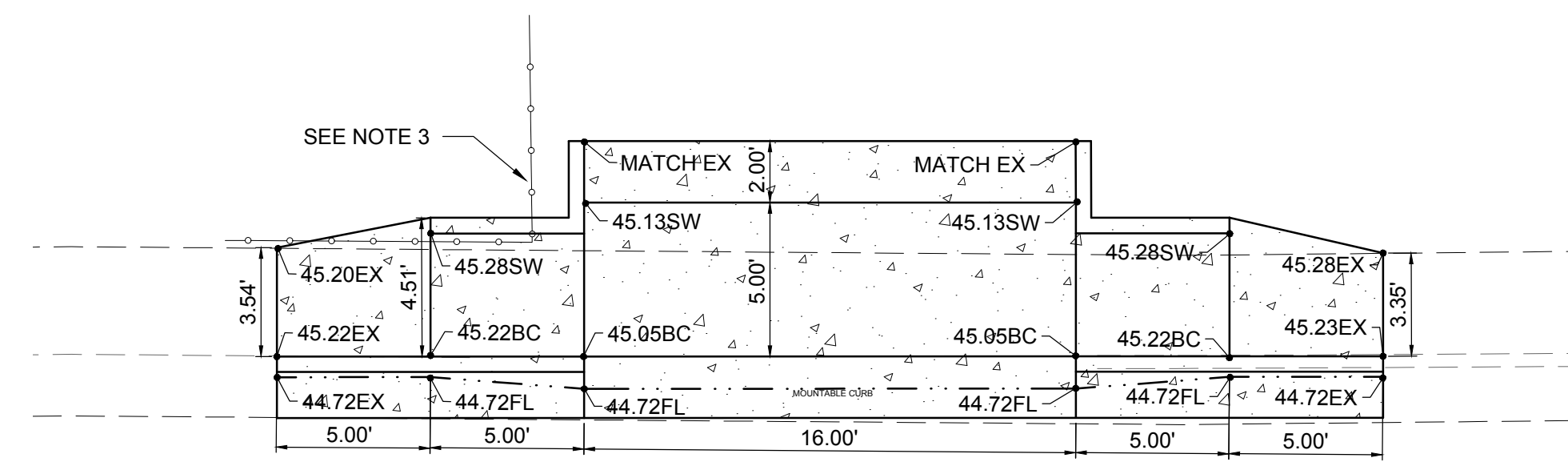
NOTES:

1. NOT USED
2. NOT USED
3. IF A CONFLICT WITH AN EXISTING FENCE EXISTS, CONTRACTOR SHALL MODIFY DRIVEPAD CURB TO CONFORM WITH EXISTING FENCE SO NO FENCE REPLACEMENT WILL BE REQUIRED.

CONSTRUCTION PLAN KEY NOTES:

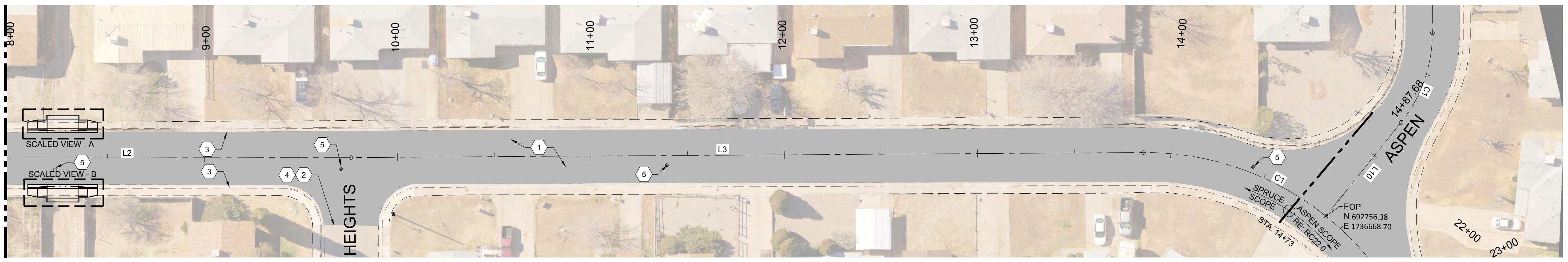
1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

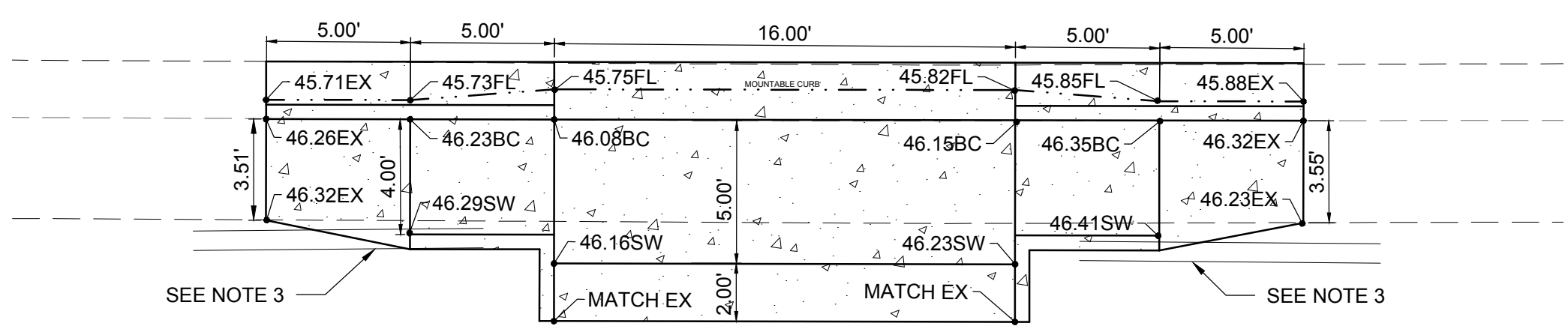


SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

MATCH LINE-STA: 8+00 SEE SHEET RC26.0

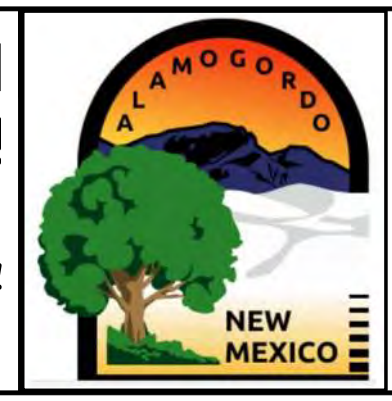


SPRUCE AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

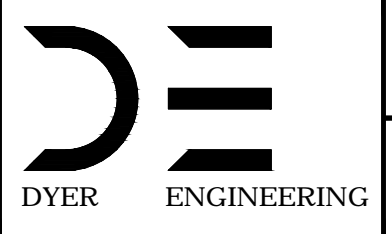
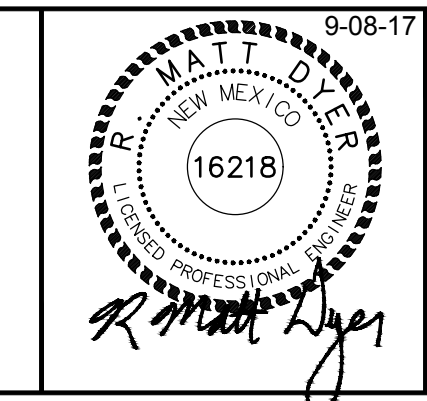
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



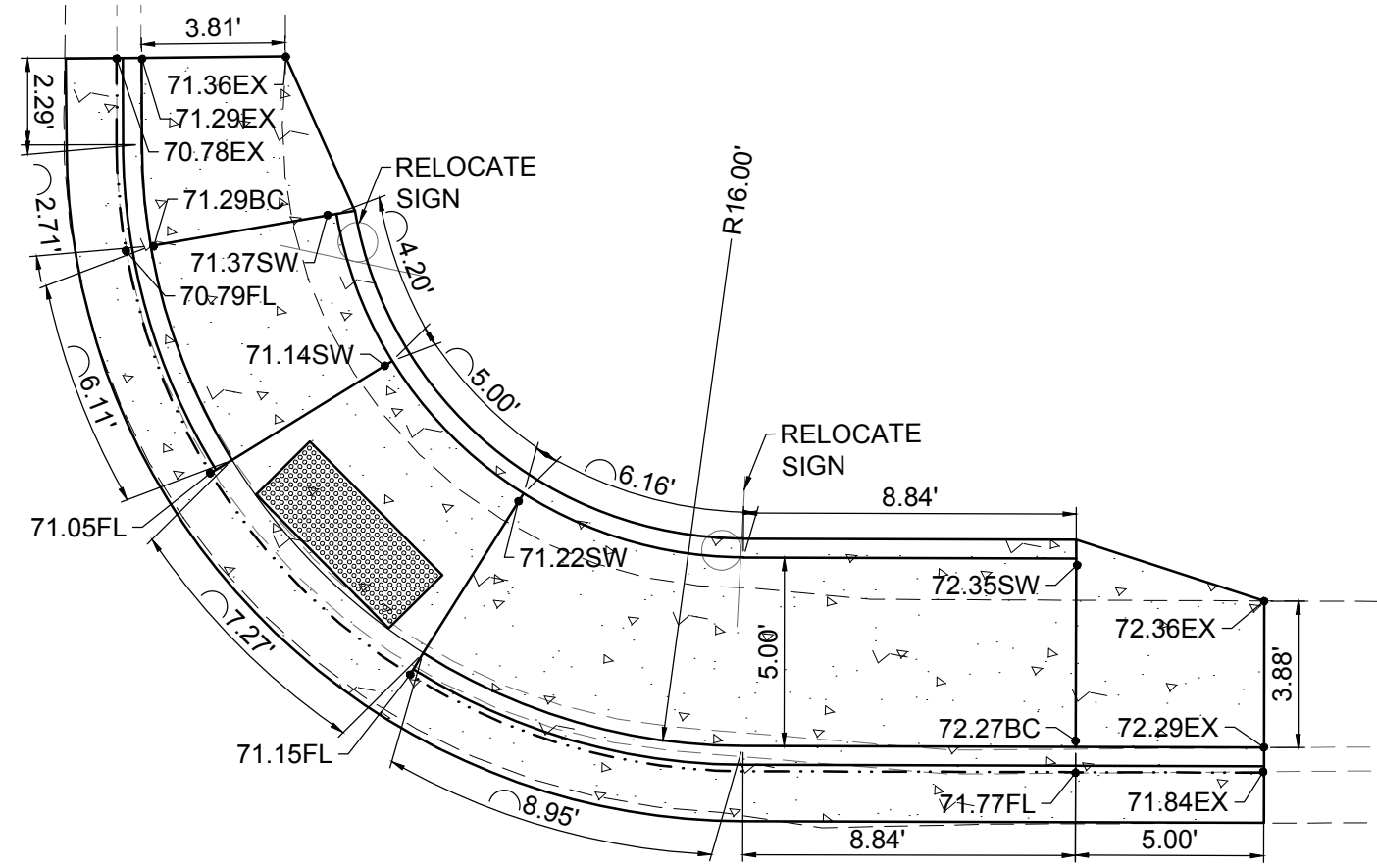
Street Maintenance Program FY 2017

SPRUCE AVENUE ROAD CONSTRUCTION PLAN STATION 8+00 TO 14+87

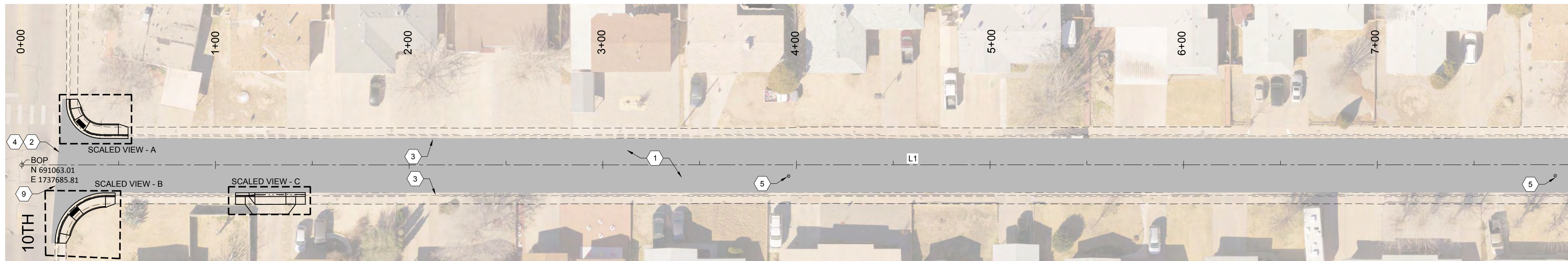
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



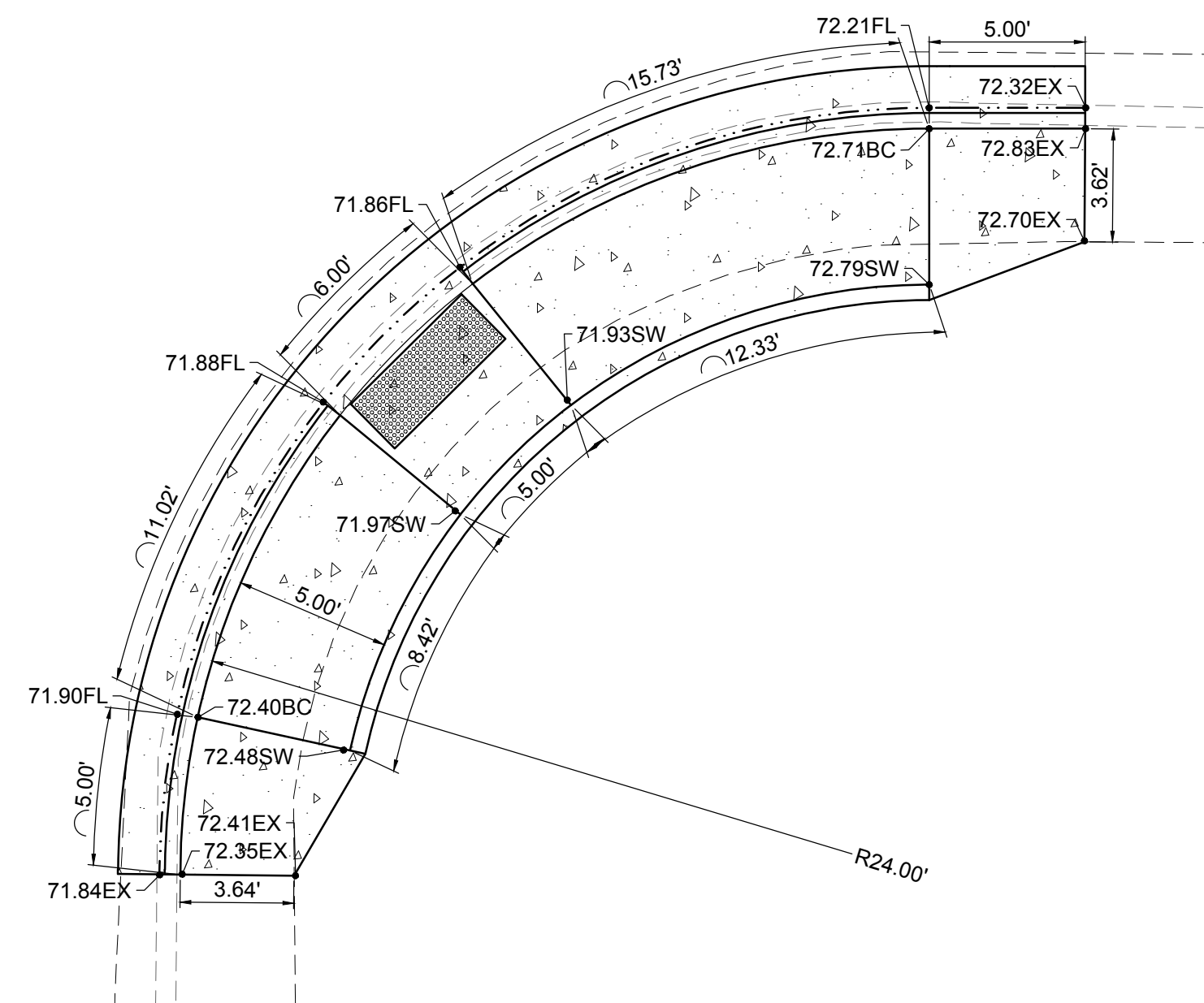
Public Works Bid No.:	2017-010	Sheet No.:	RC 27.0
Drawn By:	AD	Designed By:	AD
Checked By:	MD	Approved By:	MD
Scale: Horiz.:	VARIES	Vert.:	n/a
			Sheet 43 of 103
			EN1701



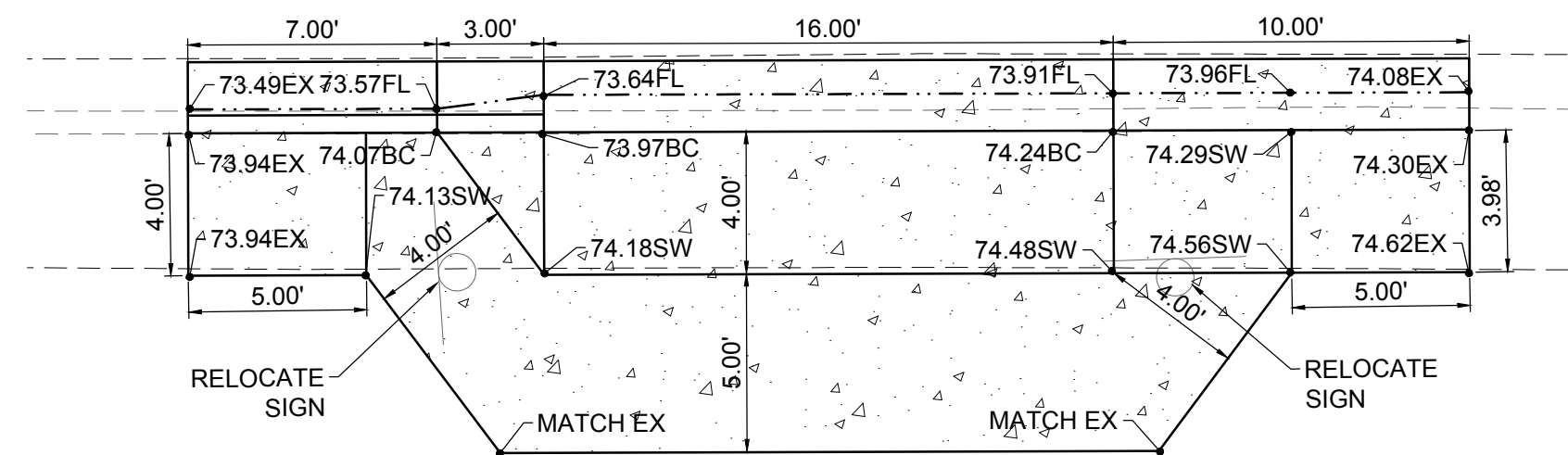
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

CONSTRUCTION PLAN KEY NOTES:

- 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
- MATCH EXISTING PAVEMENT ELEVATION.
- EXISTING CURB & GUTTER NOT TO BE DISTURBED.
- APPLY TACK COAT TO PAVEMENT CUT.
- ADJUST MANHOLE TO GRADE.
- CAUTION: OVERHEAD UTILITY LINES.
- CURB & GUTTER TO BE REMOVED AND REPLACED.
- ADJUST VALVE BOX TO GRADE.
- SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

MATCH LINE-STA: 8+00 SEE SHEET RC29.0

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMOC

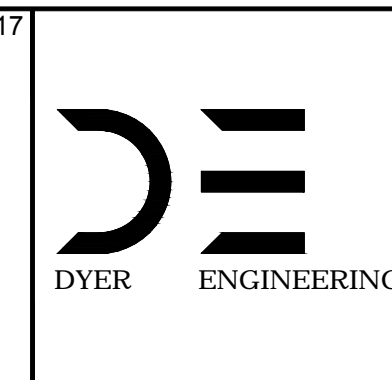
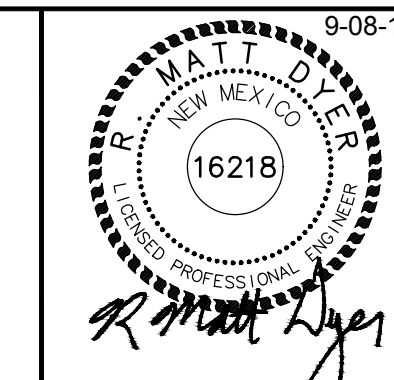
 PROFESSIONAL ENGINEER
 No. 800320037



Street Maintenance Program FY 2017

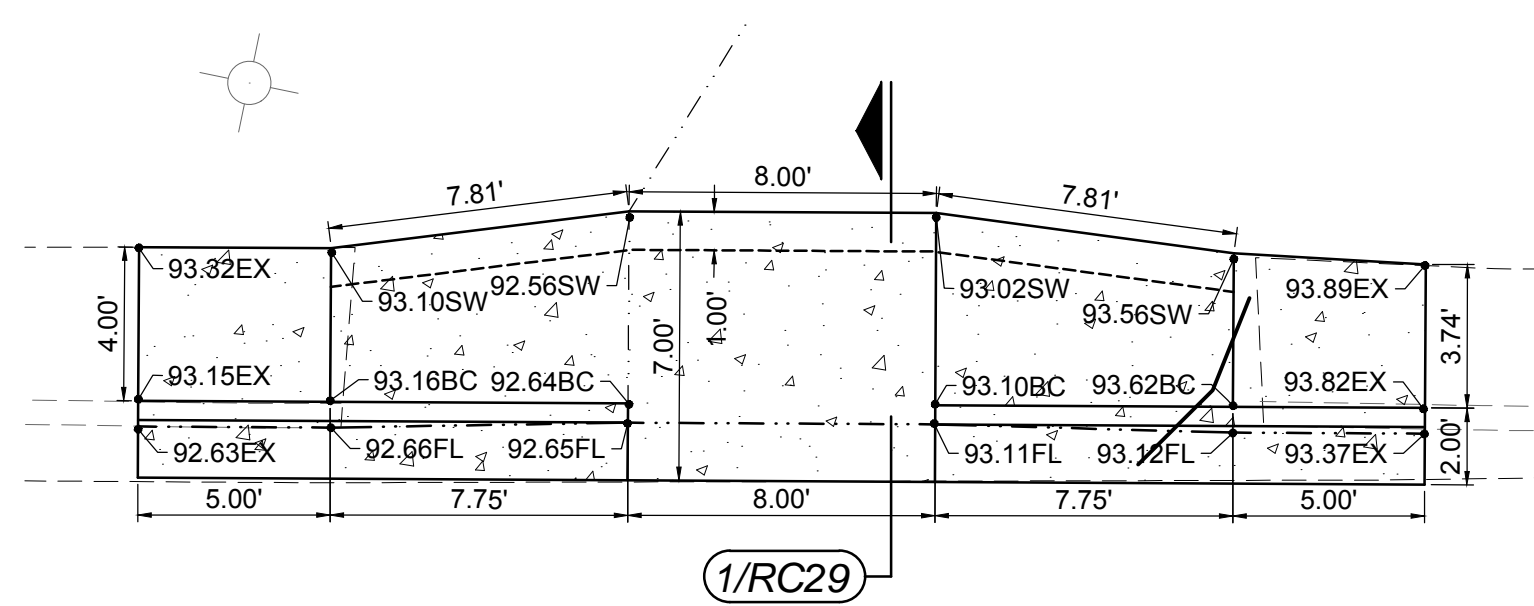
McKINLEY AVENUE ROAD CONSTRUCTION PLAN STATION 0+21 TO 8+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

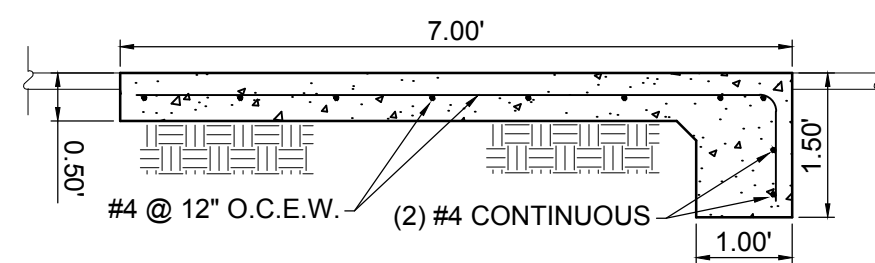


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIABLE
Scale: Vert.:	n/a

Sheet No.:	RC 28.0
Sheet 44 of 103	
EN1701	



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SECTION 1/RC29
FULL SCALE: 1:2 HALF SCALE 1:4

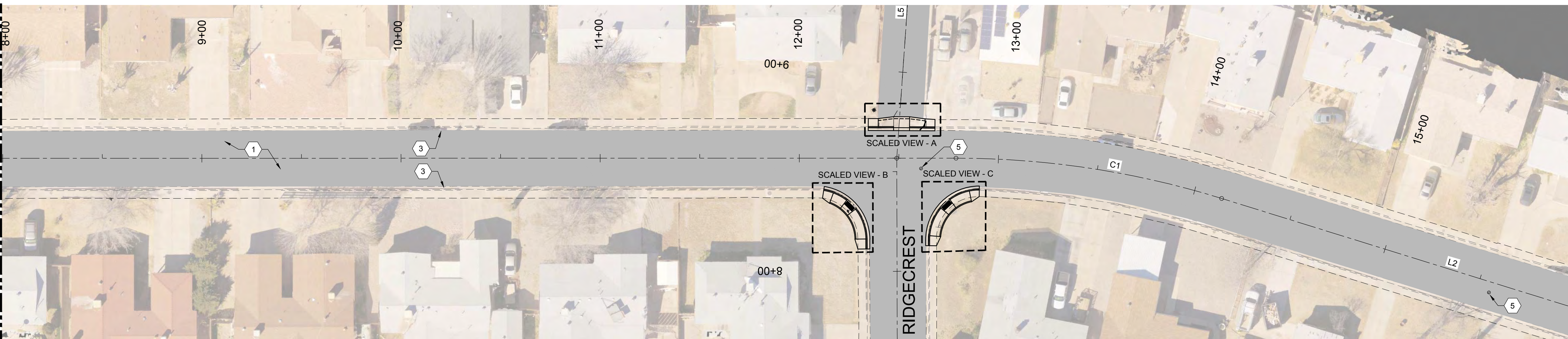
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

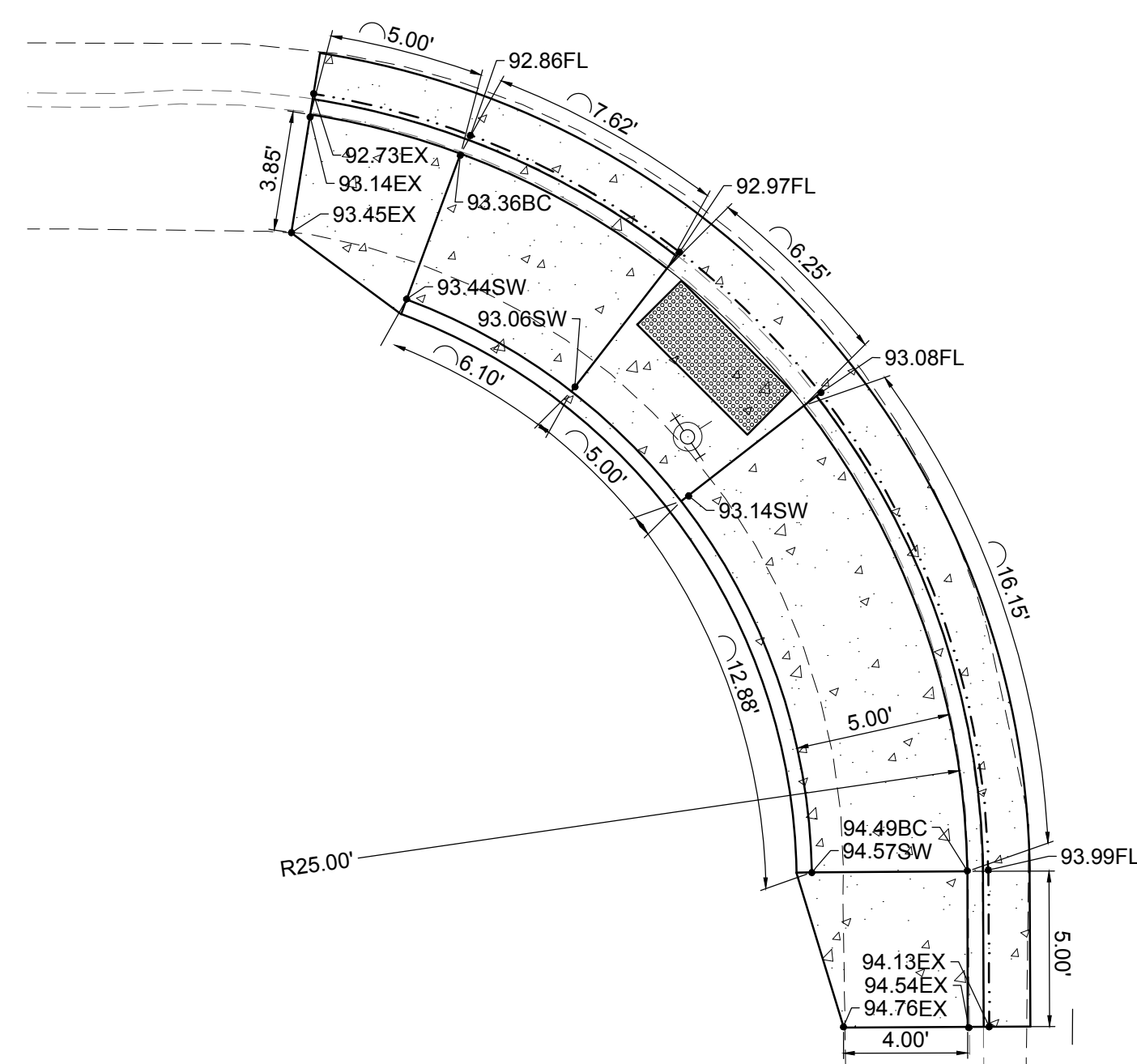
LEGEND

- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES

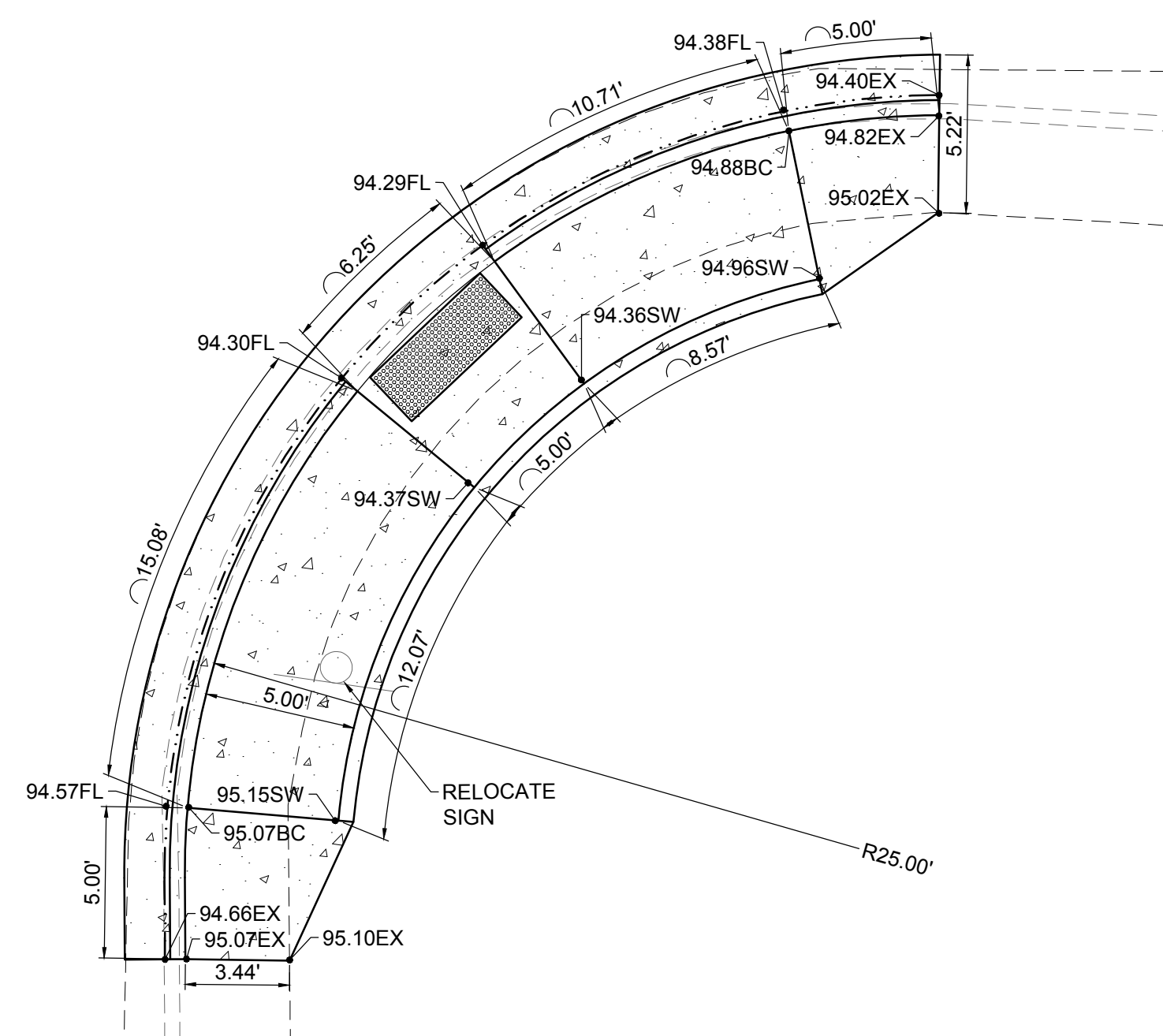
MATCH LINE-STA: 8+00 SEE SHEET RC28.0



MATCH LINE-STA: 16+00 SEE SHEET RC30.0

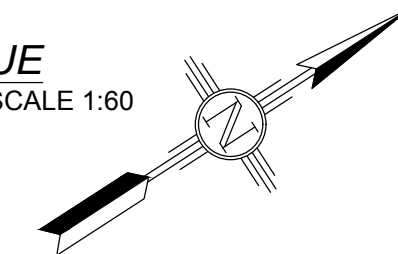


SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



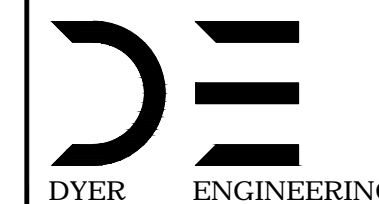
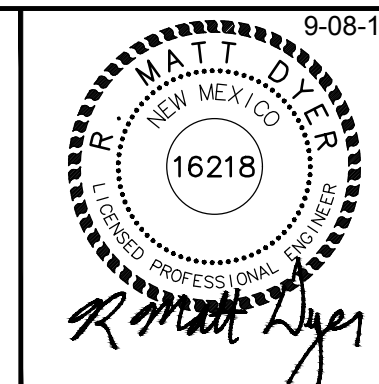
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

**McKINLEY AVENUE ROAD CONSTRUCTION PLAN
STATION 8+00 TO 16+00**

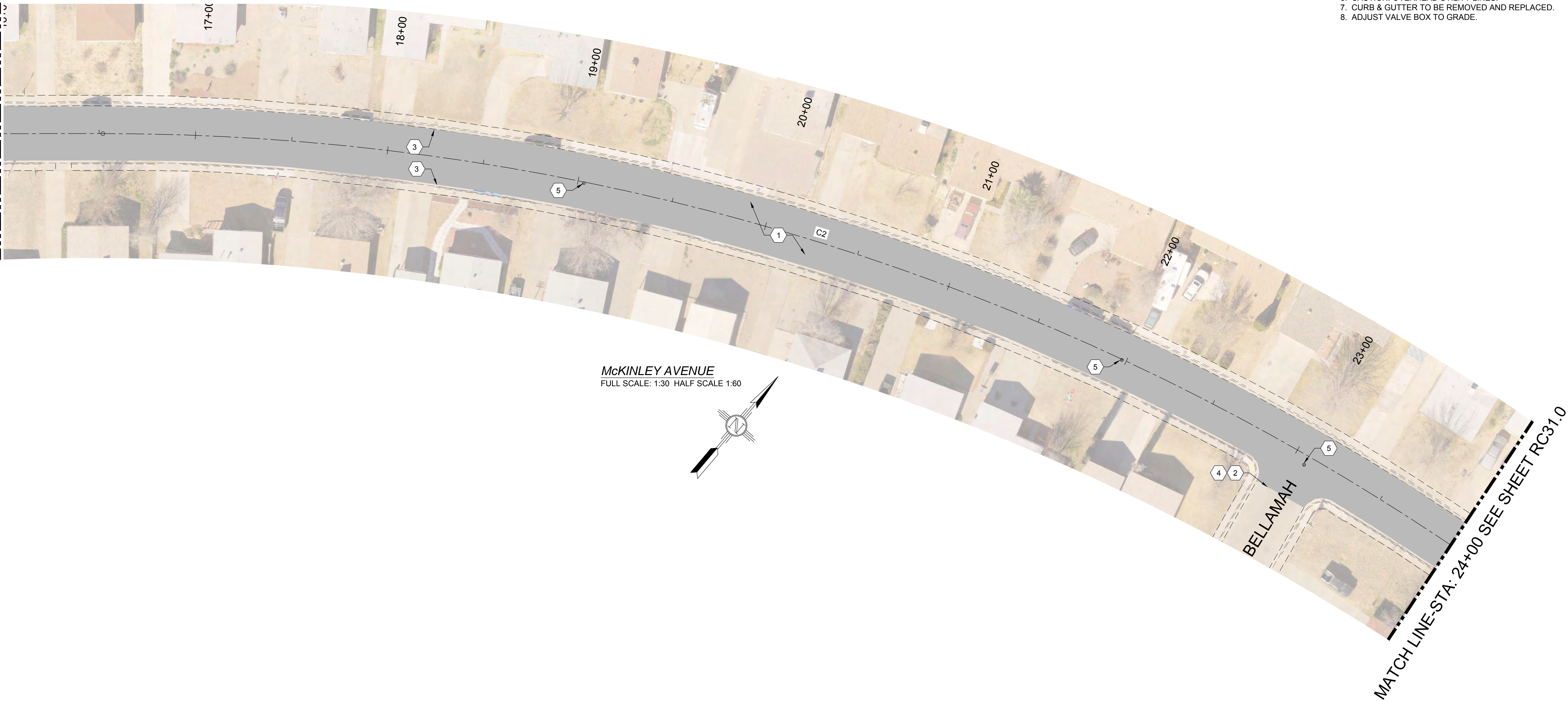
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



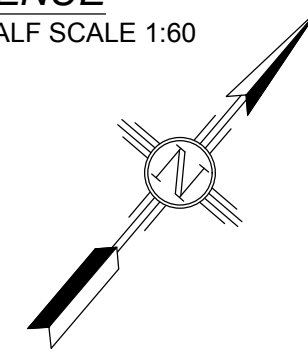
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 29.0
Sheet 45 of 103	
EN1701	

MATCH LINE-STA: 16+00 SEE SHEET RC29.0



McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

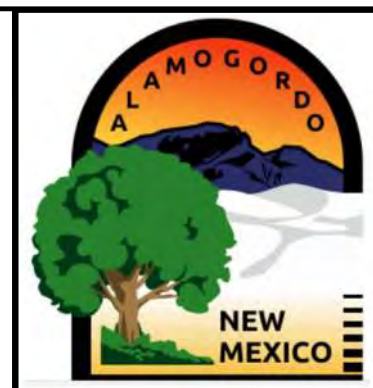
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

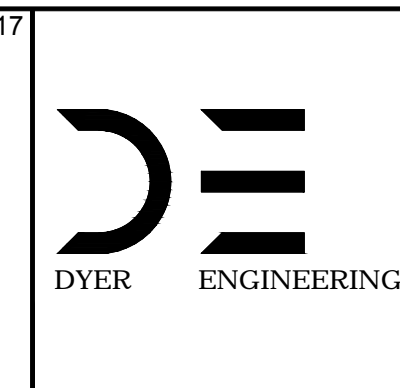
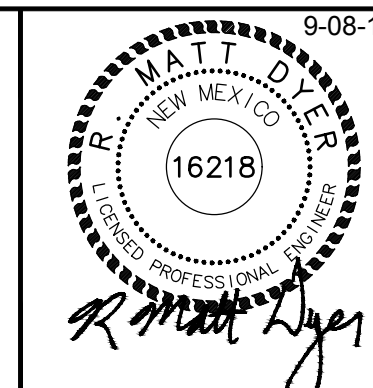
MATCH LINE-STA: 24+00 SEE SHEET RC31.0

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

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Street Maintenance Program FY 2017
McKINLEY AVENUE ROAD CONSTRUCTION PLAN
STATION 16+00 TO 24+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.: RC 30.0
 Sheet 46 of 103
 EN1701

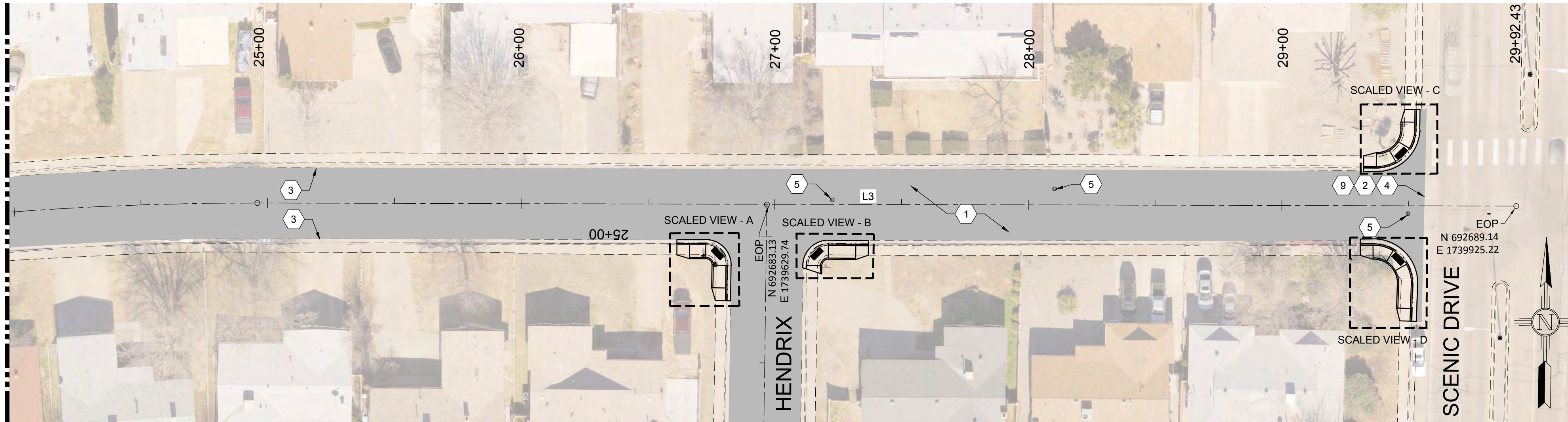
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY, 2" INTO EXISTING INTERSECTION HMA.

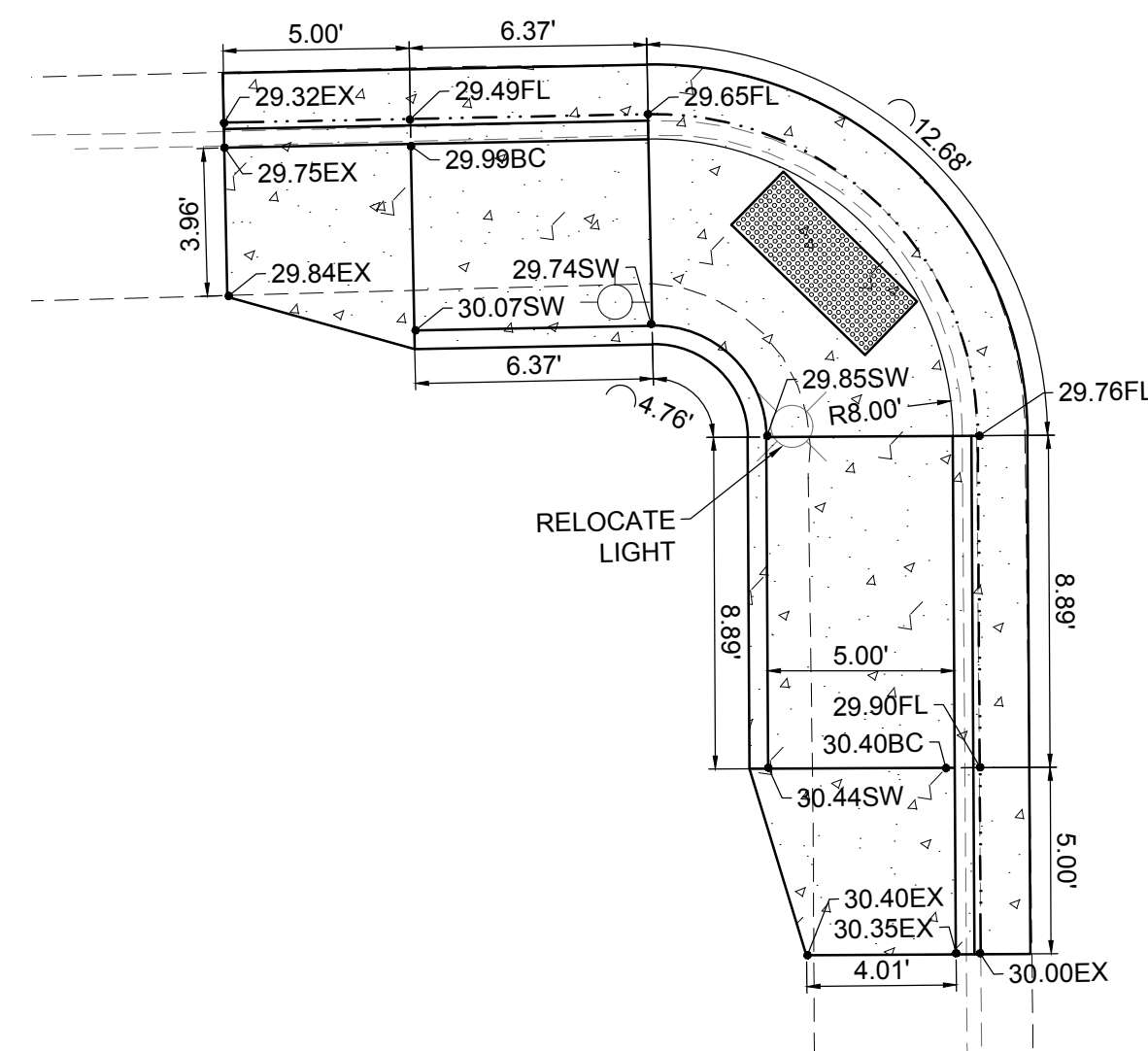
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

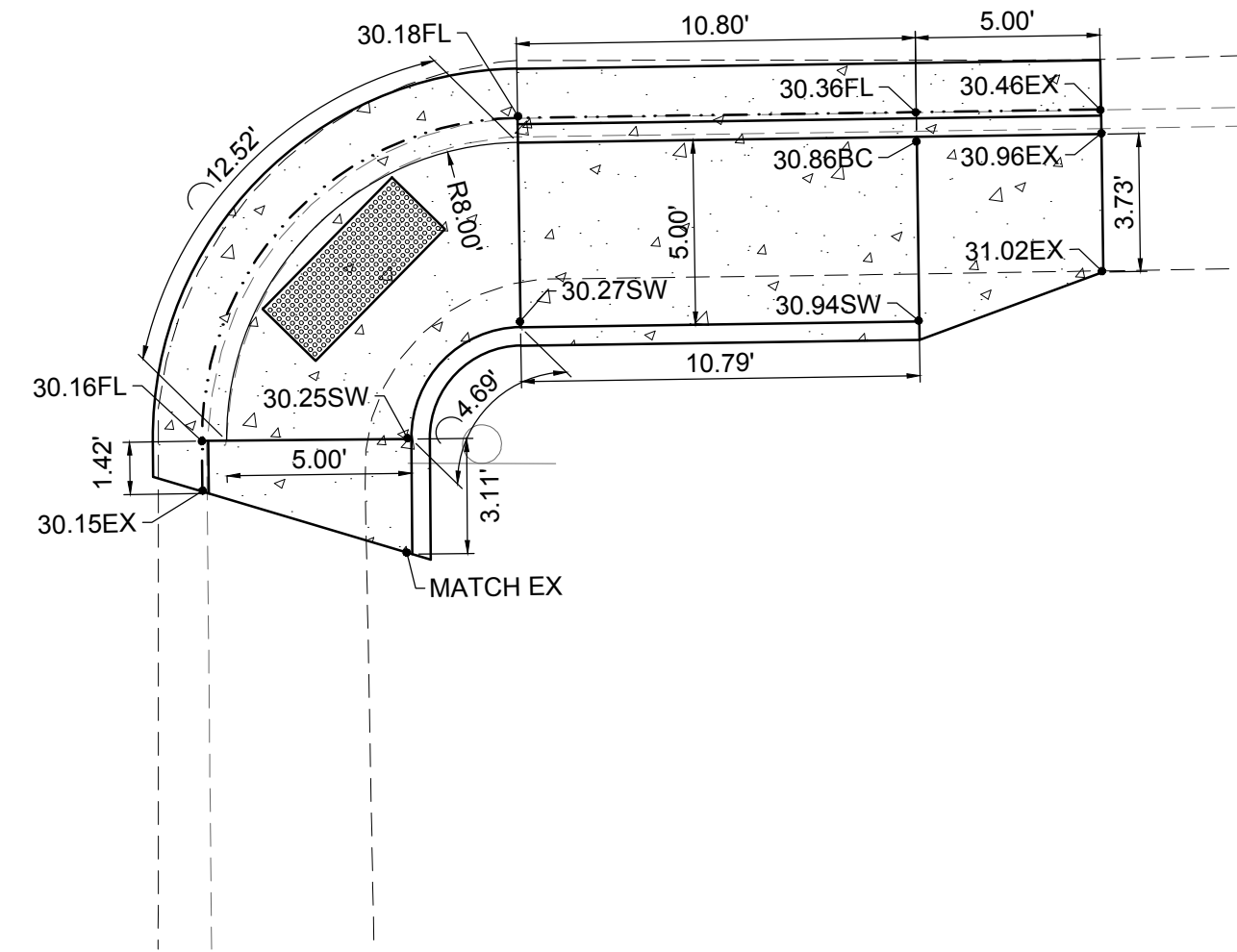
MATCH LINE-STA: 24+00 SEE SHEET RC30.0



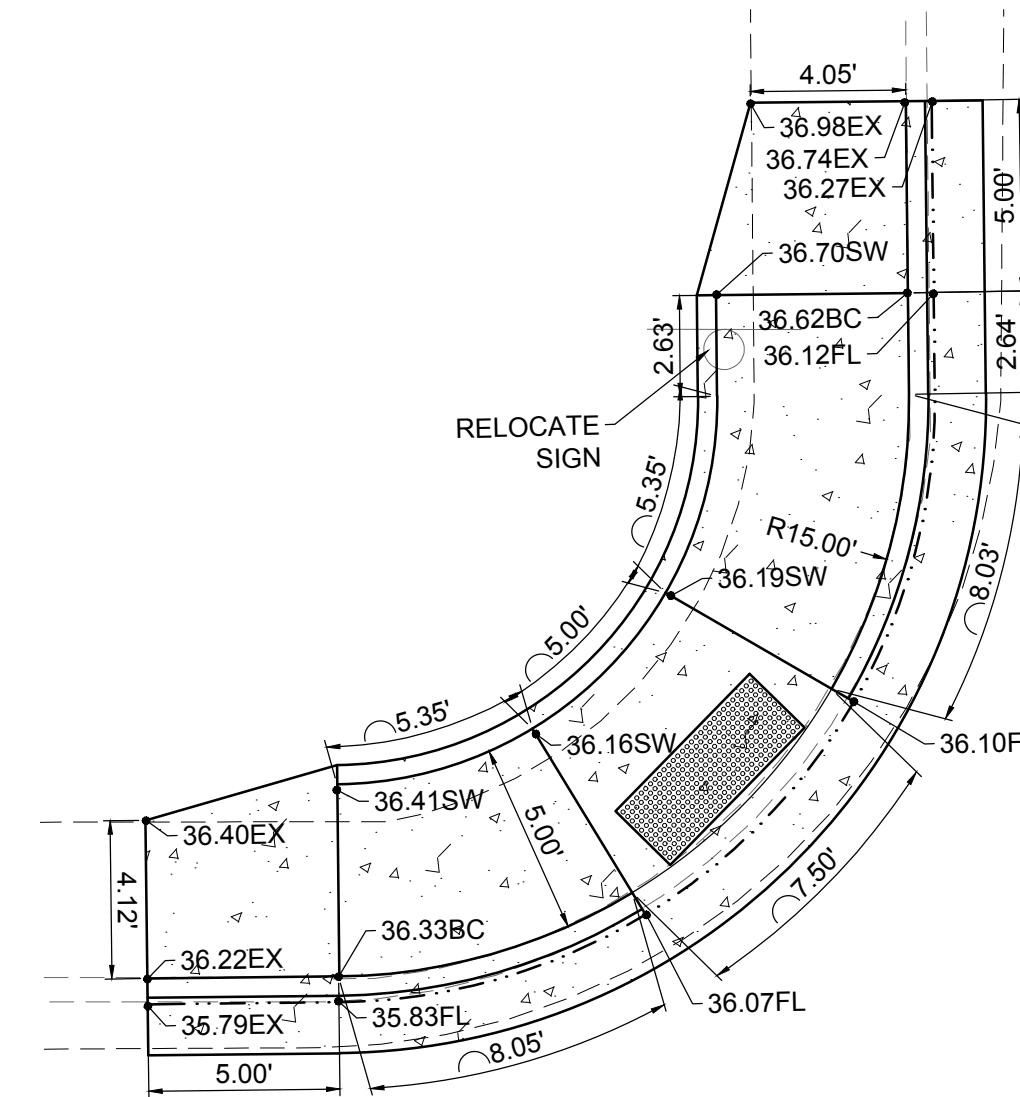
McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



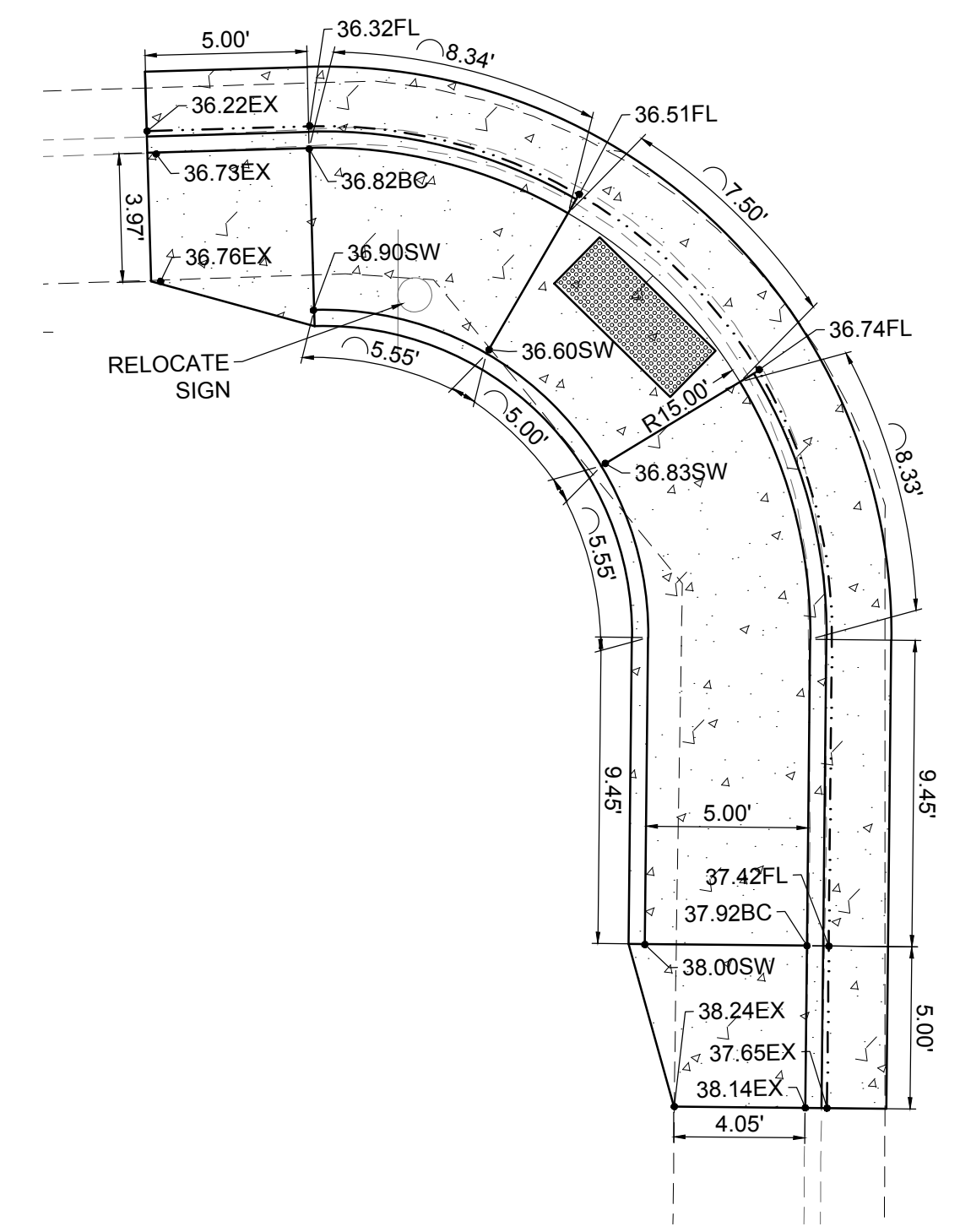
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

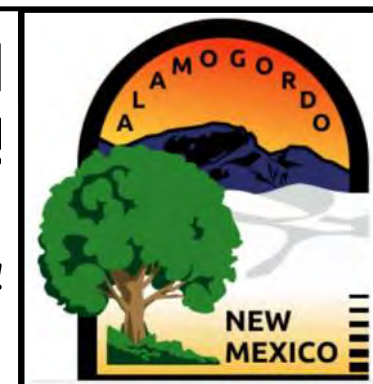


SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

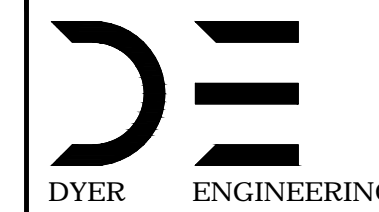
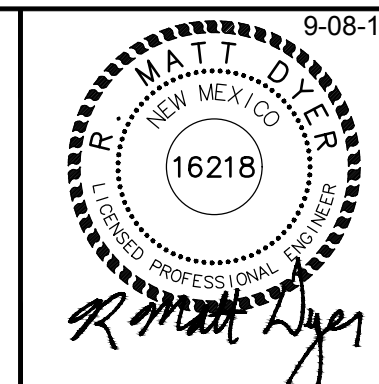
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

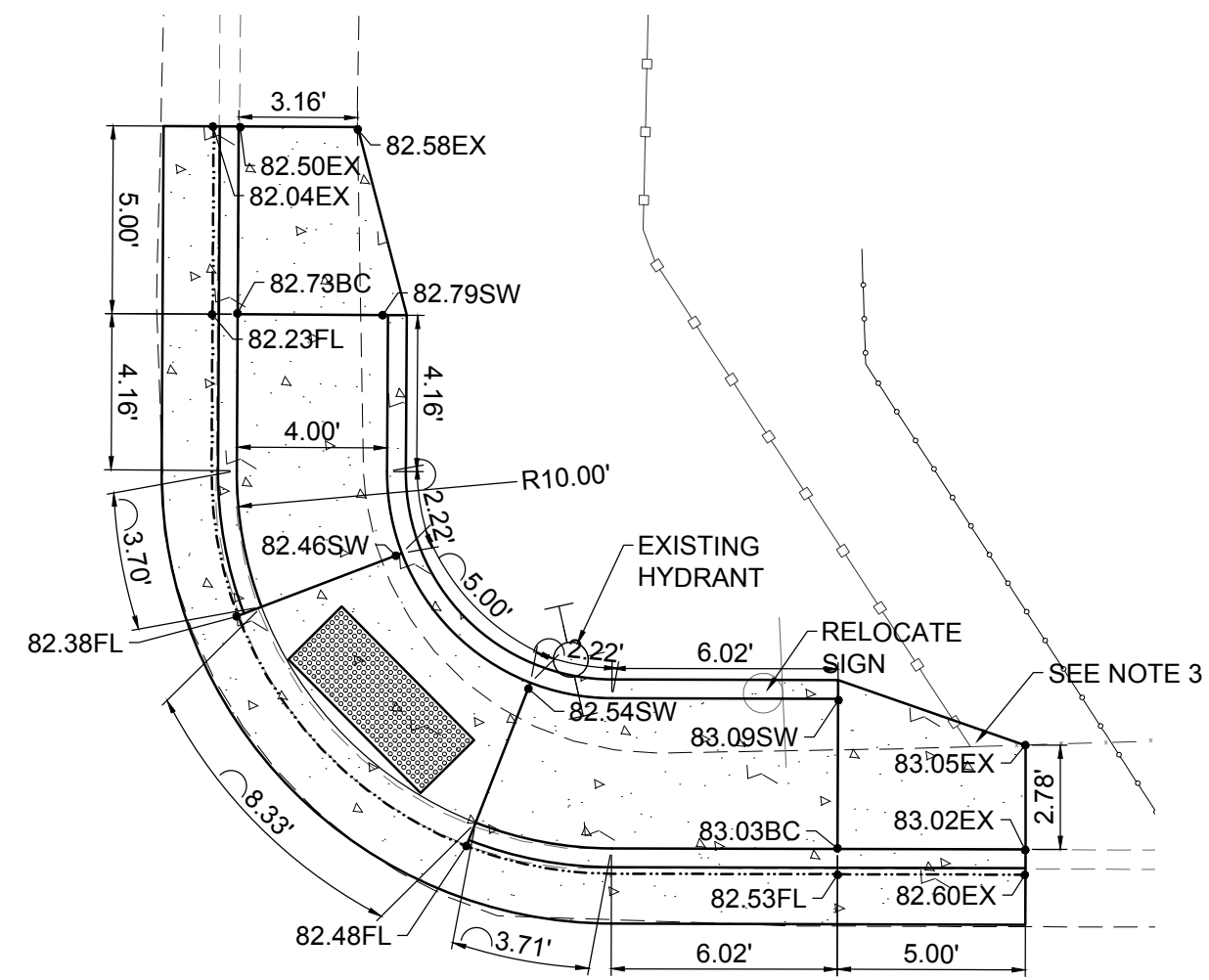
**McKINLEY AVENUE ROAD CONSTRUCTION PLAN
STATION 24+00 TO 29+54**

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

Sheet No.:	RC 31.0
Sheet 47 of 103	
EN1701	



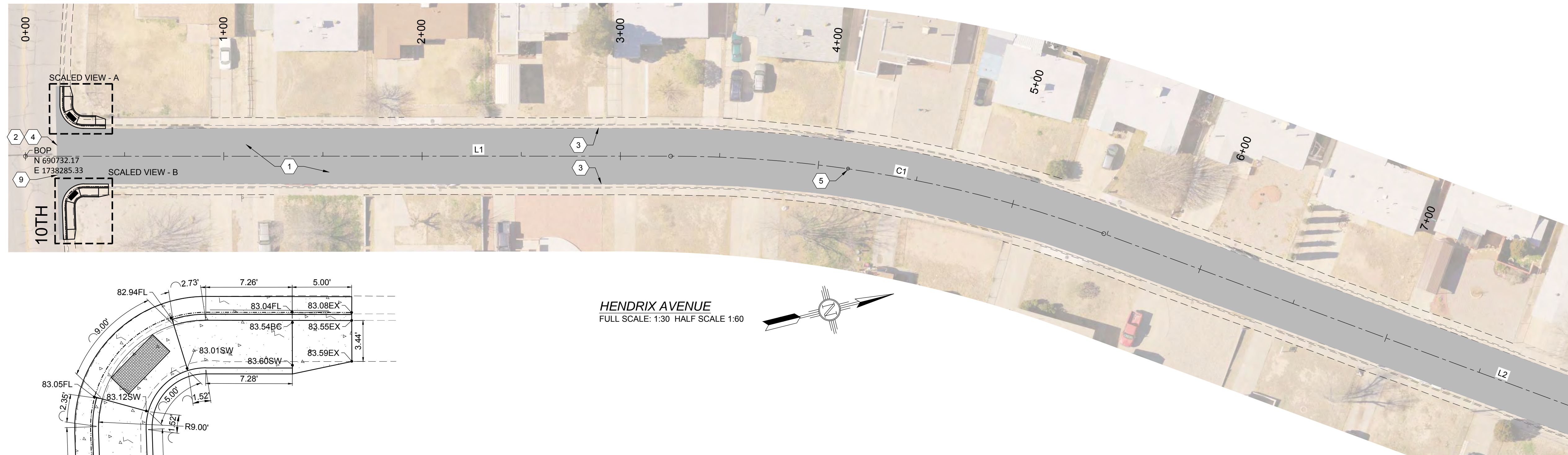
SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

- NOTES:
1. NOT USED
 2. NOT USED
 3. EXISTING FENCE TO REMAIN. CONTRACTOR SHALL COORDINATE TIE IN TO EXISTING SIDEWALK SUCH THAT IT CONFORMS TO EXISTING FENCE.

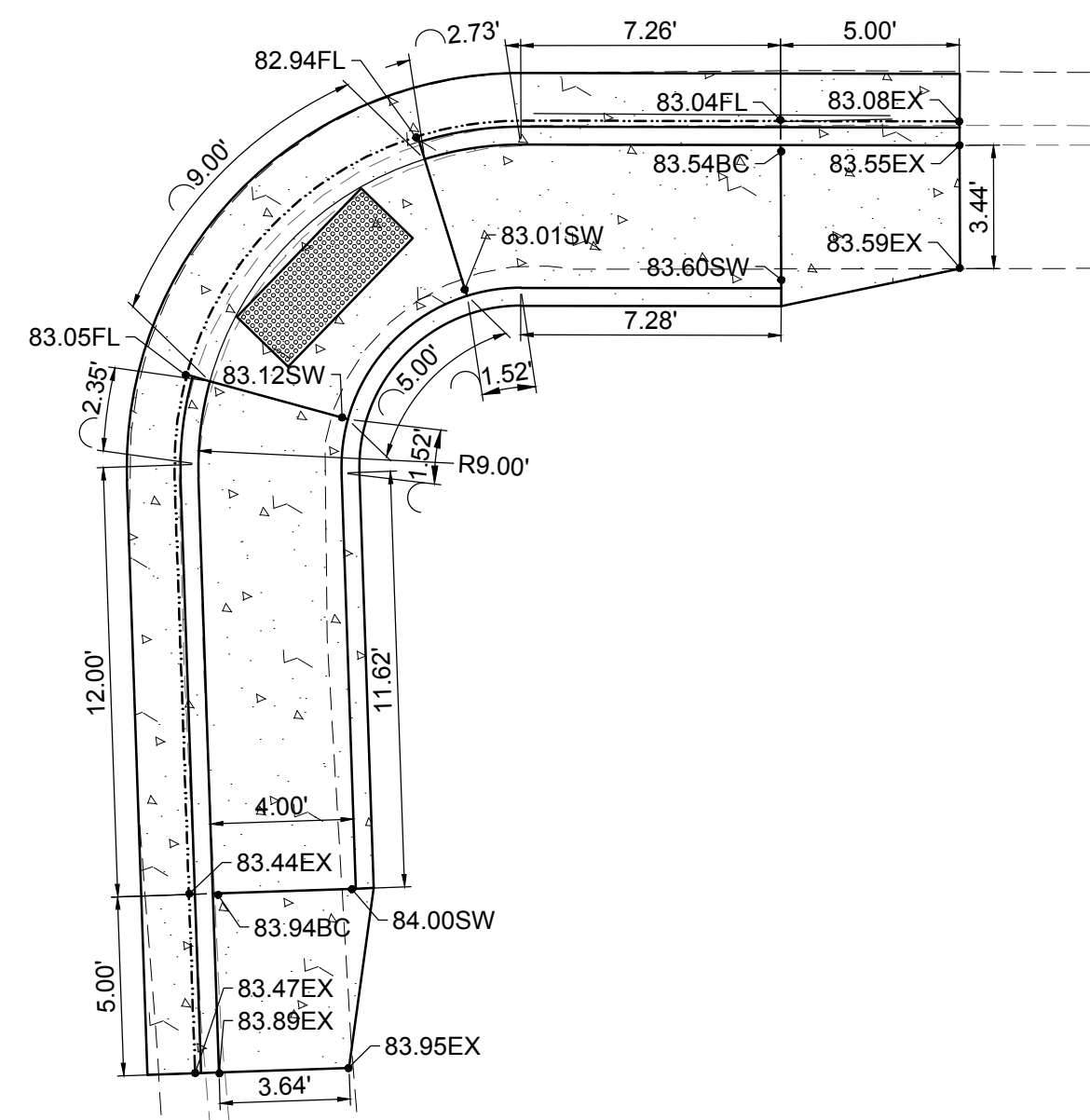
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	



HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

MATCH LINE-STA: 8+00 SEE SHEET RC33.0

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

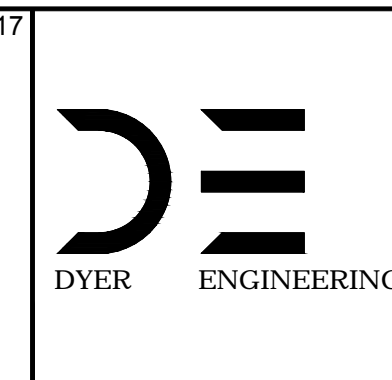
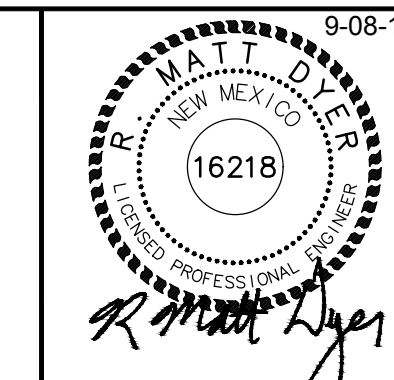
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Street Maintenance Program FY 2017

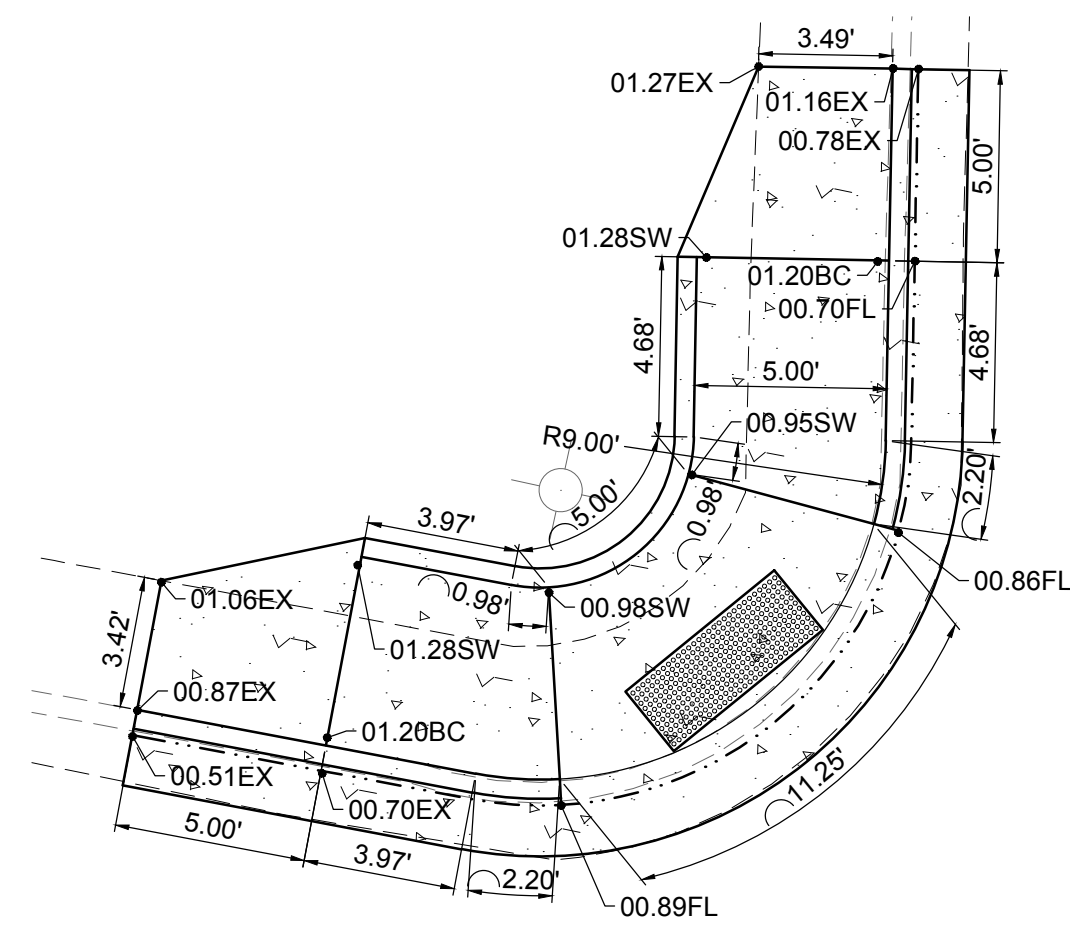
HENDRIX AVENUE ROAD CONSTRUCTION PLAN STATION 0+18 TO 8+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

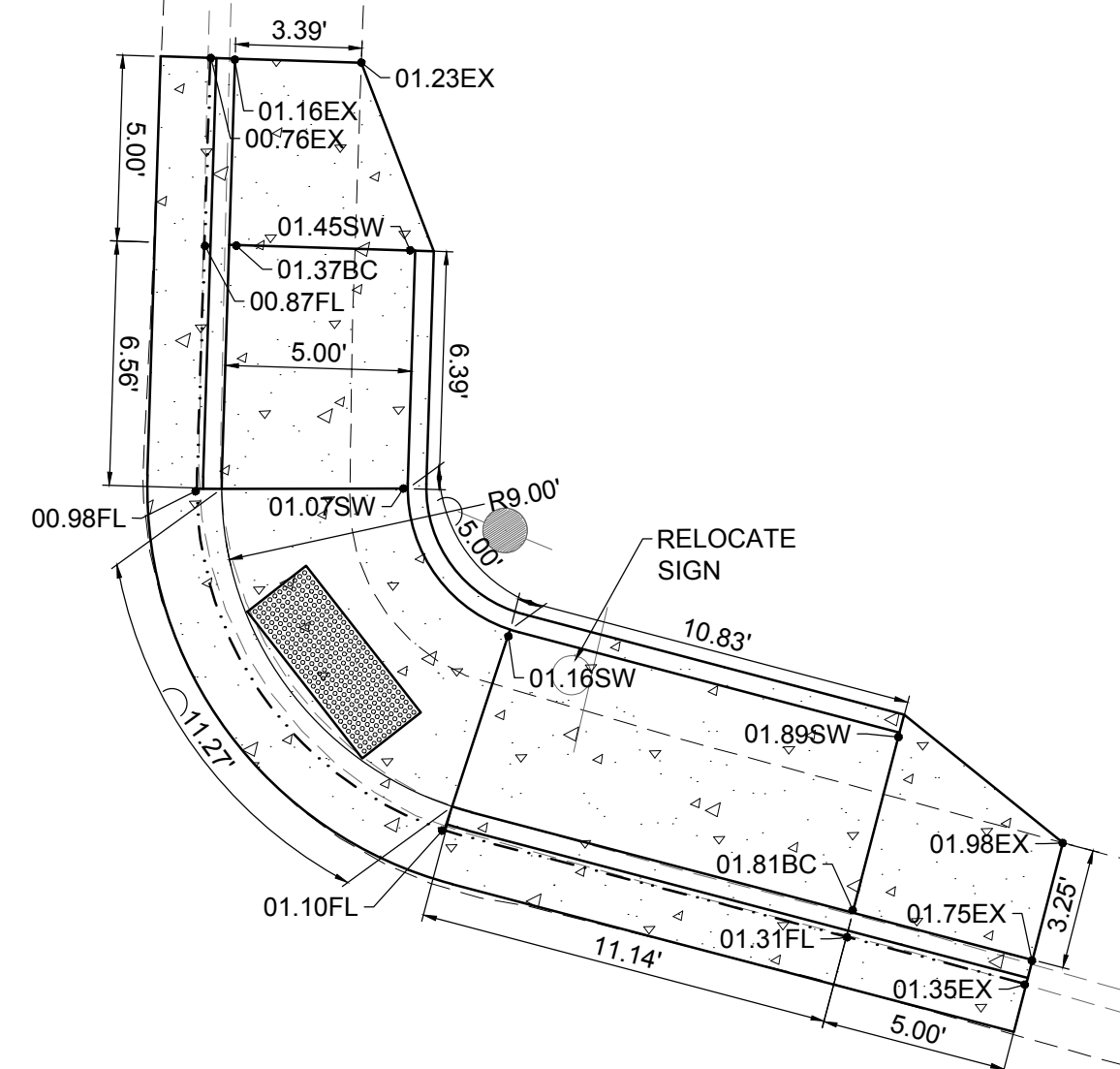


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Scale: Vert.:	n/a

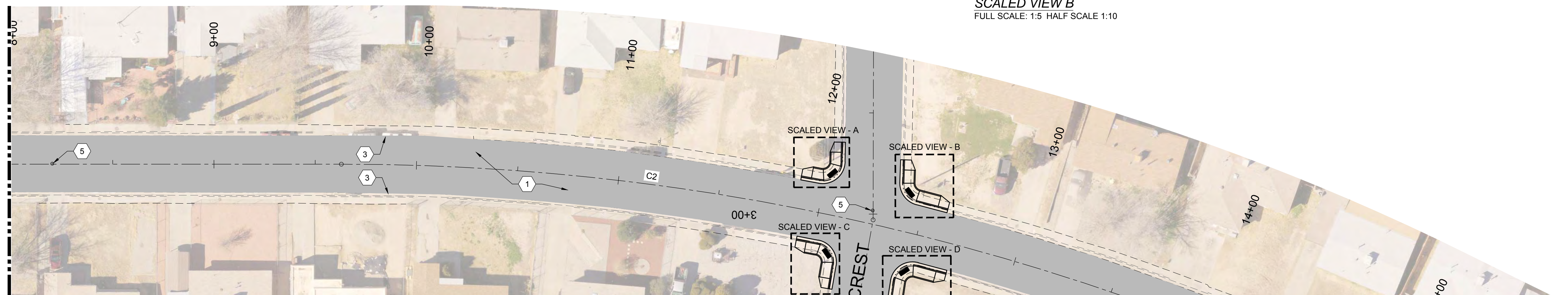
Sheet No.:	RC 32.0
Sheet 48 of 103	
EN1701	



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

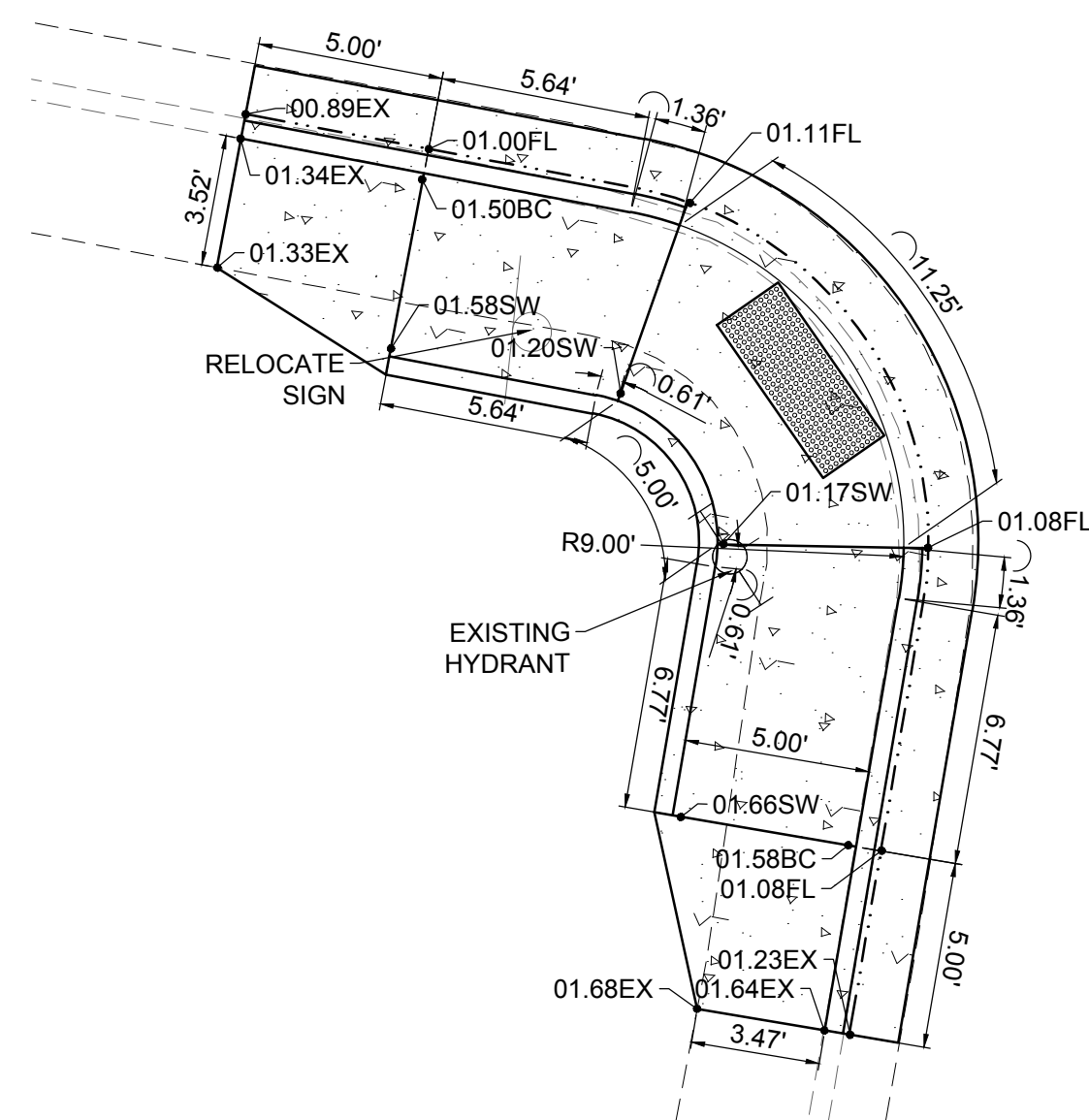


SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

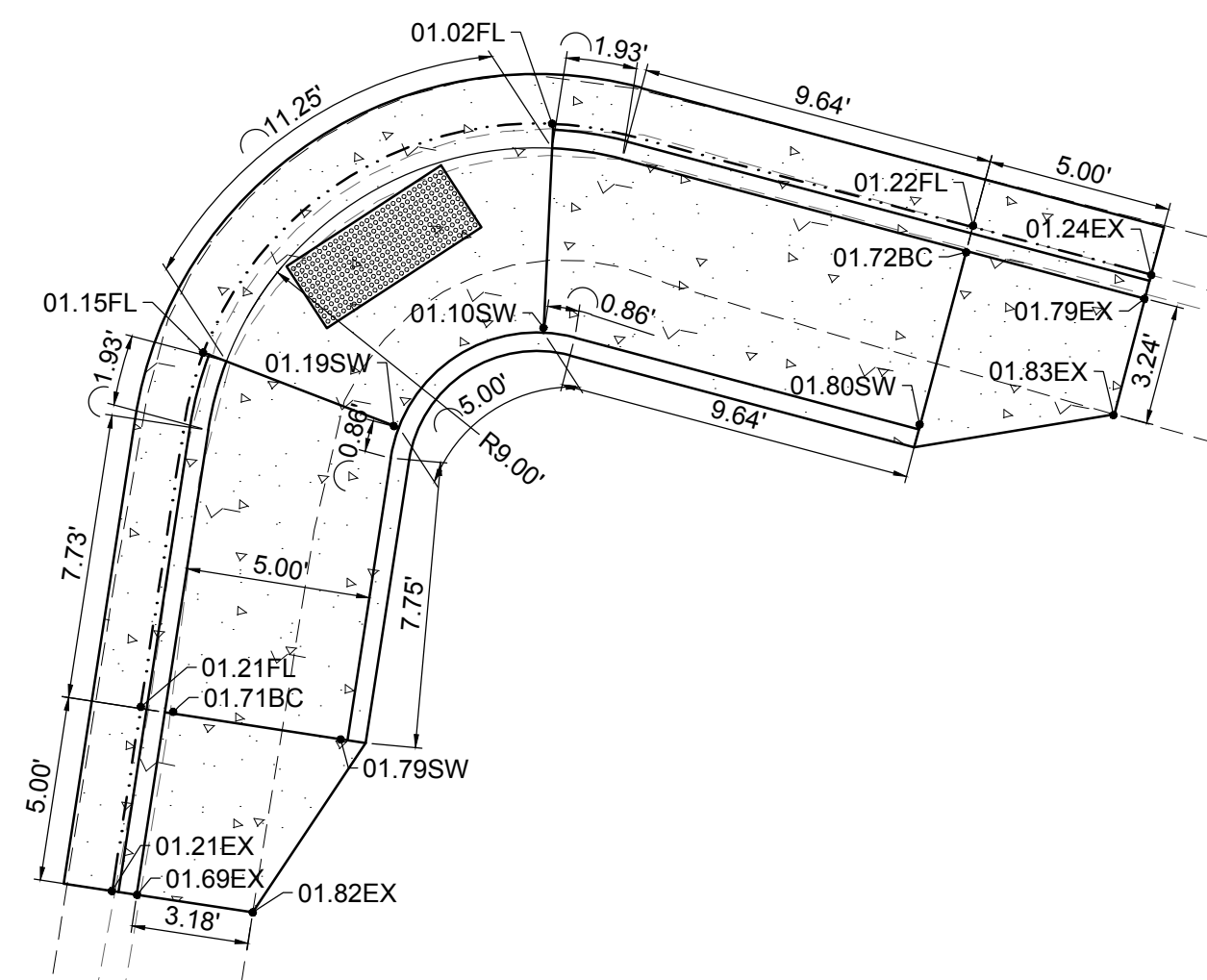


MATCH LINE-STA: 8+00 SEE SHEET RC32.0

MATCH LINE-STA: 16+00 SEE SHEET RC34.0

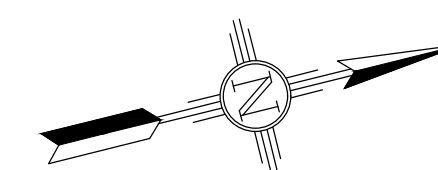


SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

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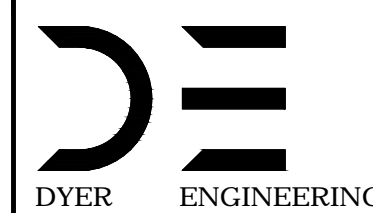
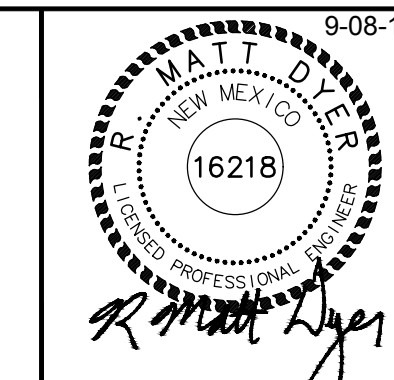
 PROFESSIONAL ENGINEER
 STATE OF NEW MEXICO
 No. 800320037



Street Maintenance Program FY 2017

HENDRIX AVENUE ROAD CONSTRUCTION PLAN STATION 8+00 TO 16+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



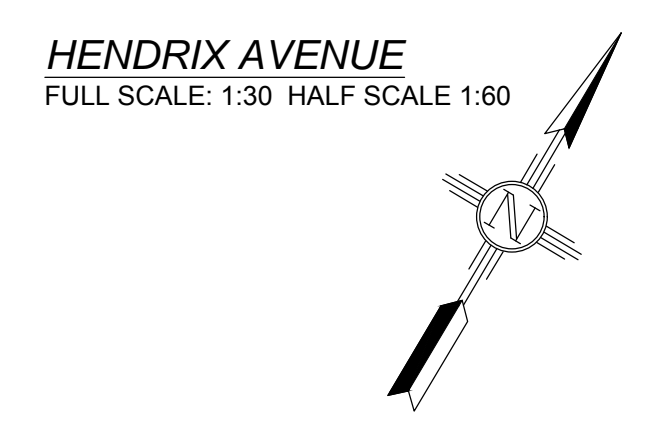
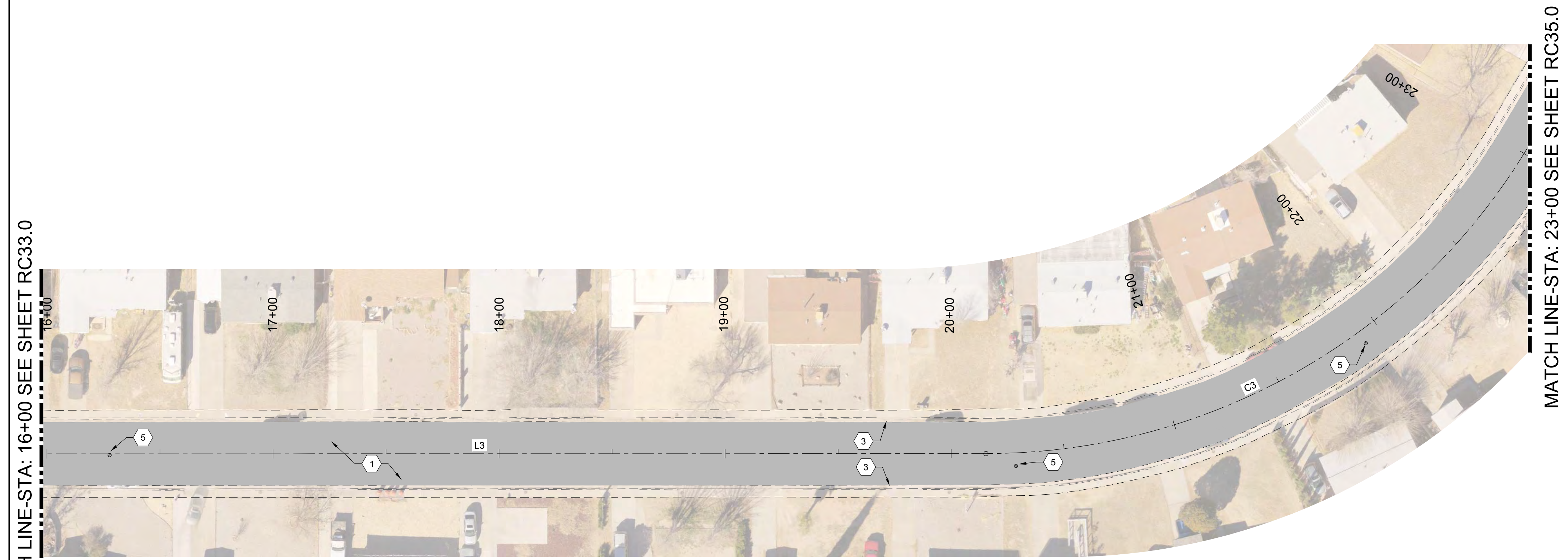
Public Works Bid No.: 2017-010	Sheet No.: RC 33.0
Drawn By: AD	Designed By: AD
Checked By: MD	Approved By: MD
Scale: Horiz.: VARIES	Vert.: n/a
Sheet 49 of 103	
EN1701	

CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

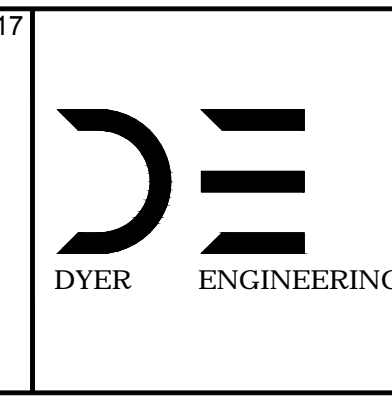
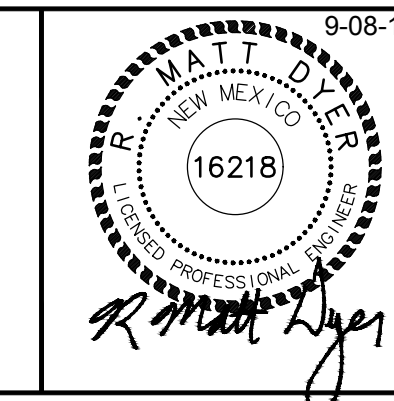


REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

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Street Maintenance Program FY 2017
HENDRIX AVENUE ROAD CONSTRUCTION PLAN
STATION 16+00 TO 23+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

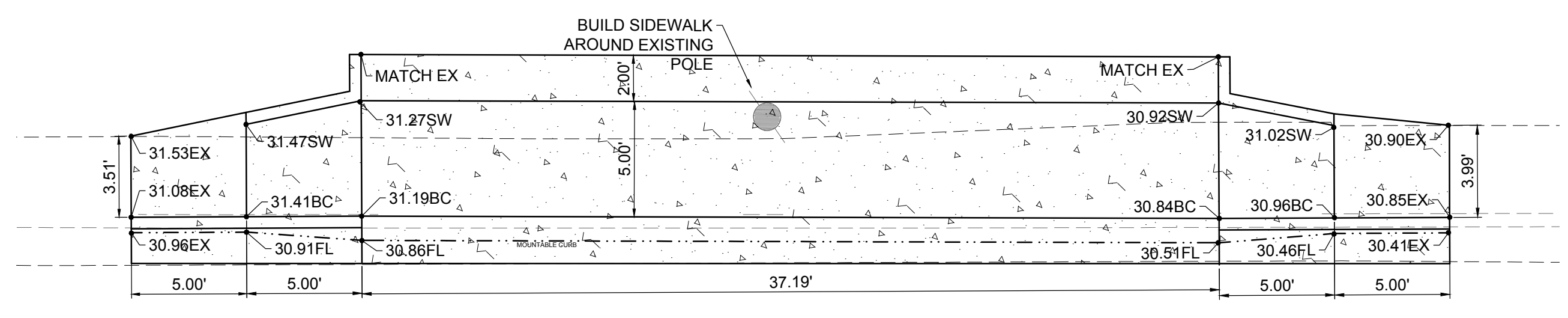
Sheet No.:	RC 34.0
Sheet	50 of 103
EN1701	

CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

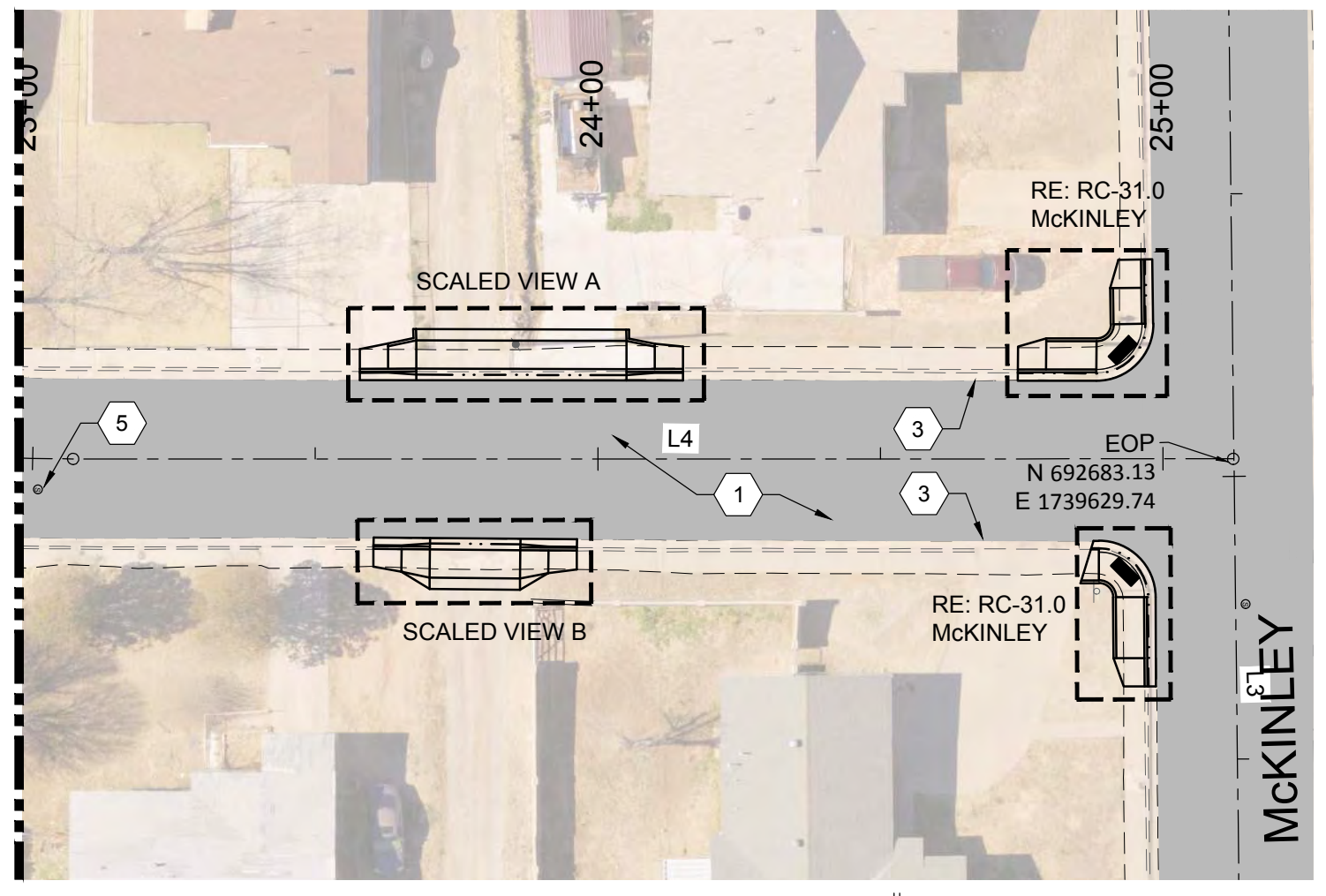
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

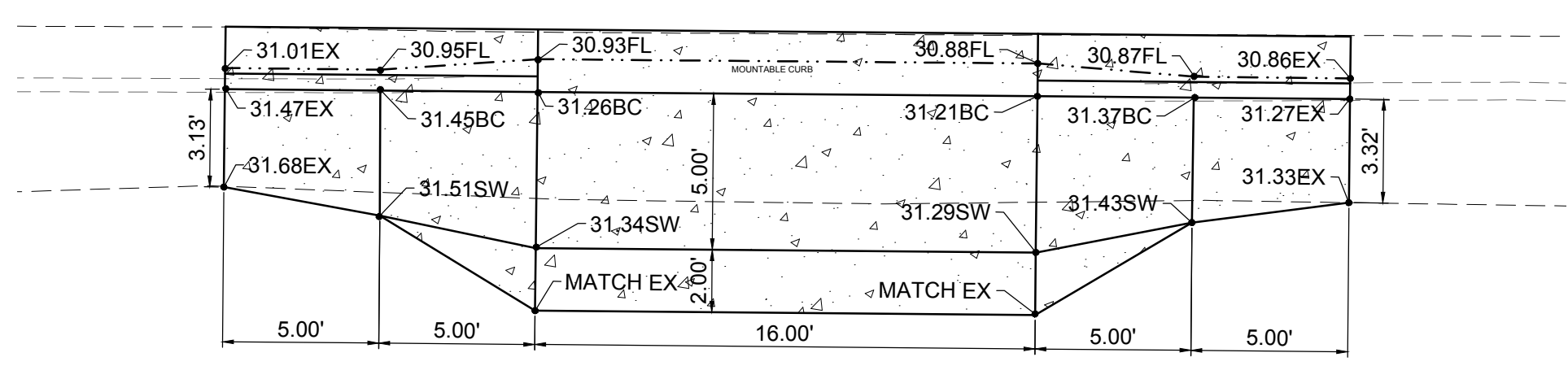


SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

MATCH LINE STA: 23+00 SEE SHEET RC34.0



HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

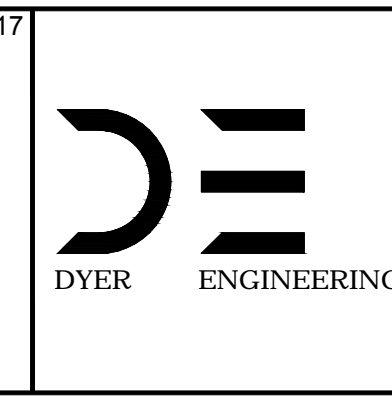
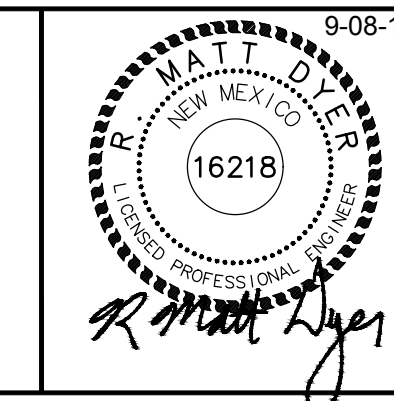


SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

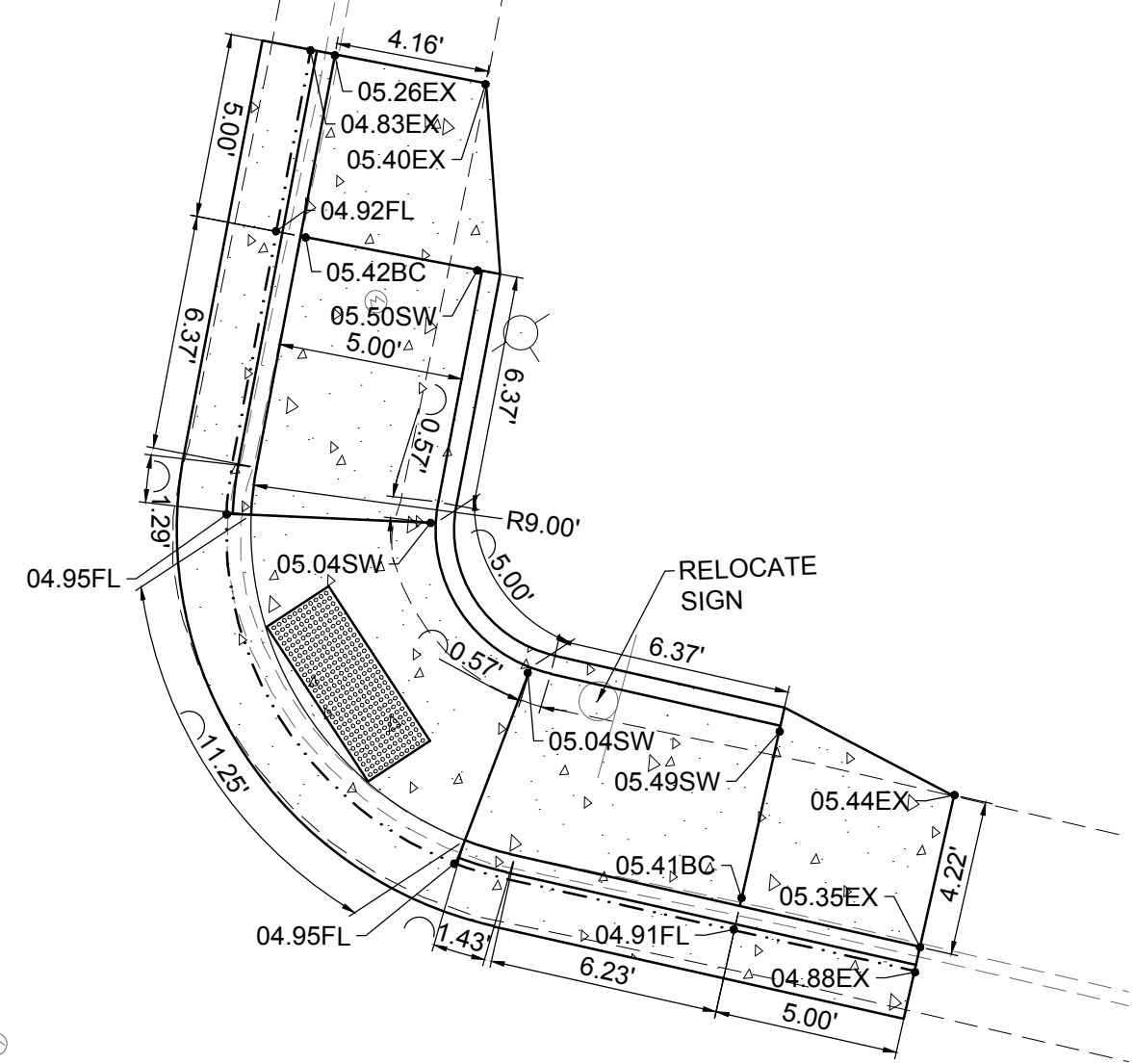
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



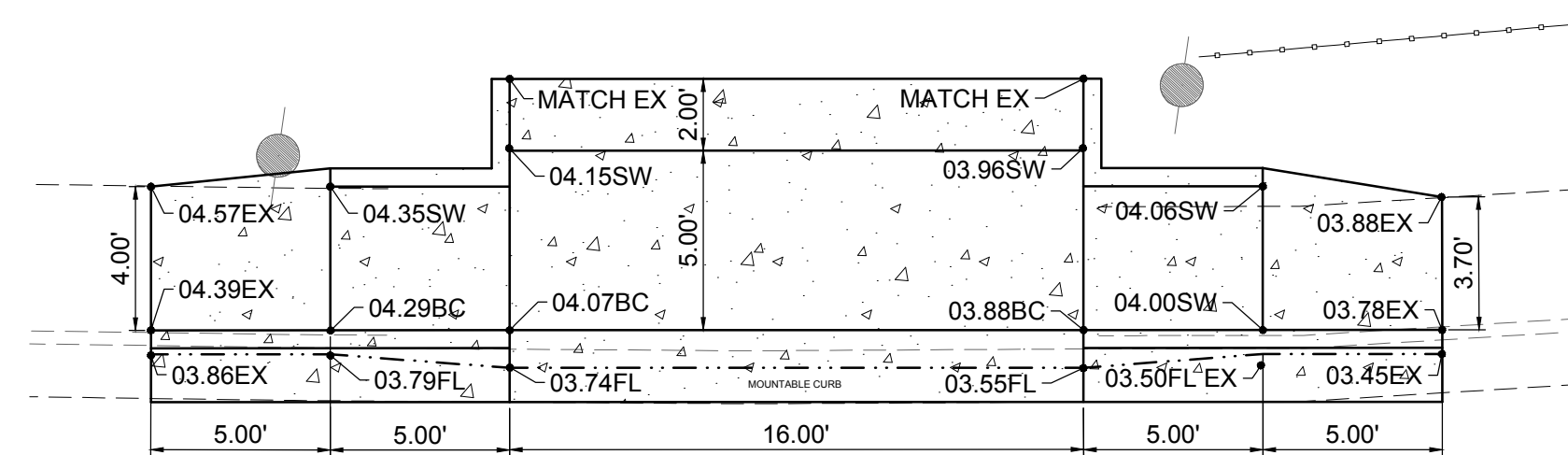
Street Maintenance Program FY 2017
HENDRIX AVENUE ROAD CONSTRUCTION PLAN
STATION 23+00 TO 24+99
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



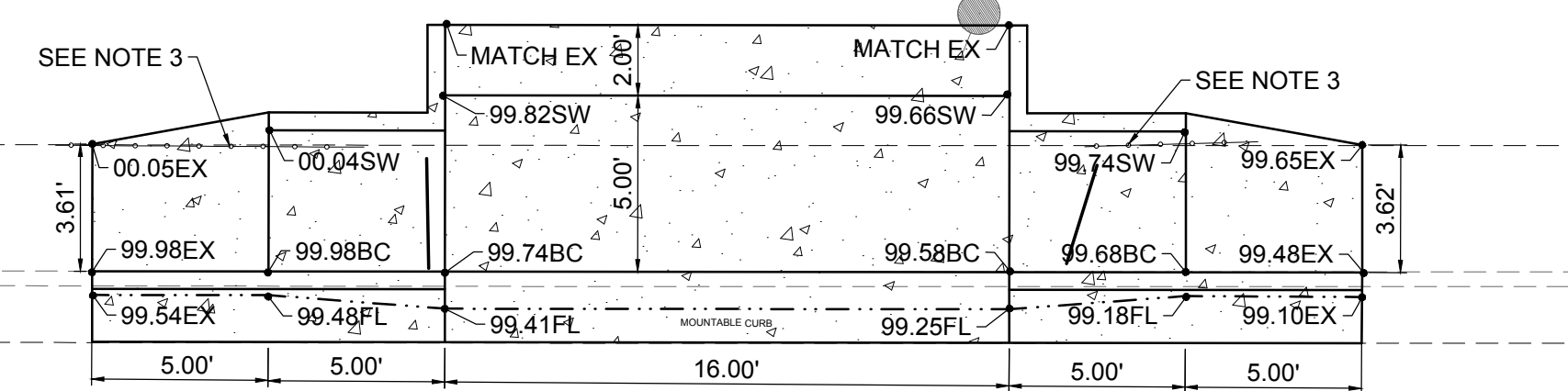
Public Works Bid No.: 2017-010	Sheet No.: RC 35.0
Drawn By: AD Designed By: AD	
Checked By: MD Approved By: MD	
Scale: Horiz.: VARIES Vert.: n/a	Sheet 51 of 103
	EN1701



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10



SCALED VIEW C
FULL SCALE: 1:5 HALF SCALE 1:10

LEGEND

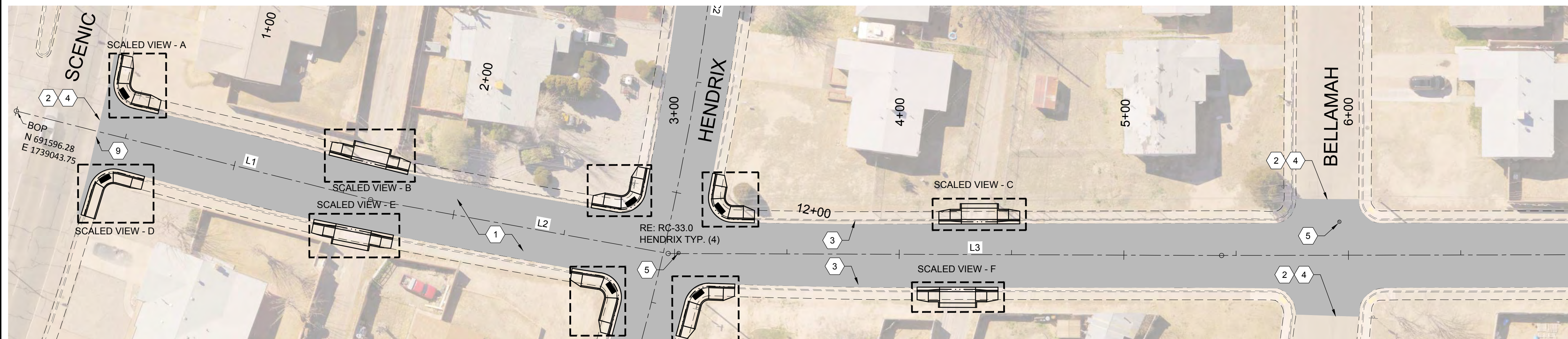
- NEW 2" COLD MILL & HMA SP-IV INLAY
- NEW 3" HMA SP-IV
- NEW CONCRETE
- NEW CURB & GUTTER
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SEWER MAHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ROADWAY CENTERLINE
- EXISTING OVER HEAD ELECTRIC LINES

CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.
9. SAWCUT AND BEGIN MILL-INLAY, 2' INTO EXISTING INTERSECTION HMA.

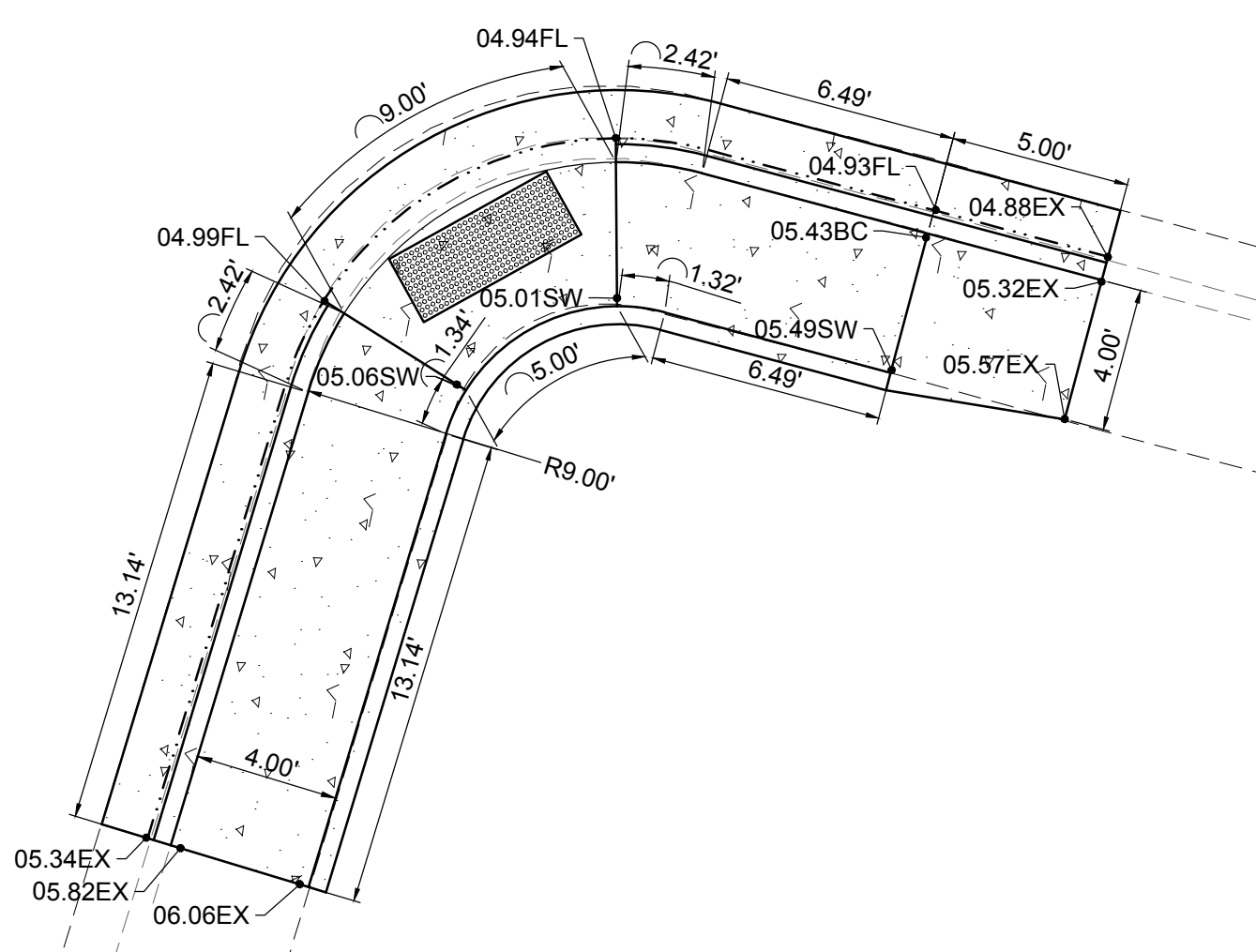
NOTES:

1. NOT USED
2. NOT USED
3. EXISTING FENCE TO REMAIN. CONTRACTOR SHALL COORDINATE TIE IN TO EXISTING SIDEWALK SUCH THAT IT CONFORMS TO EXISTING FENCE.

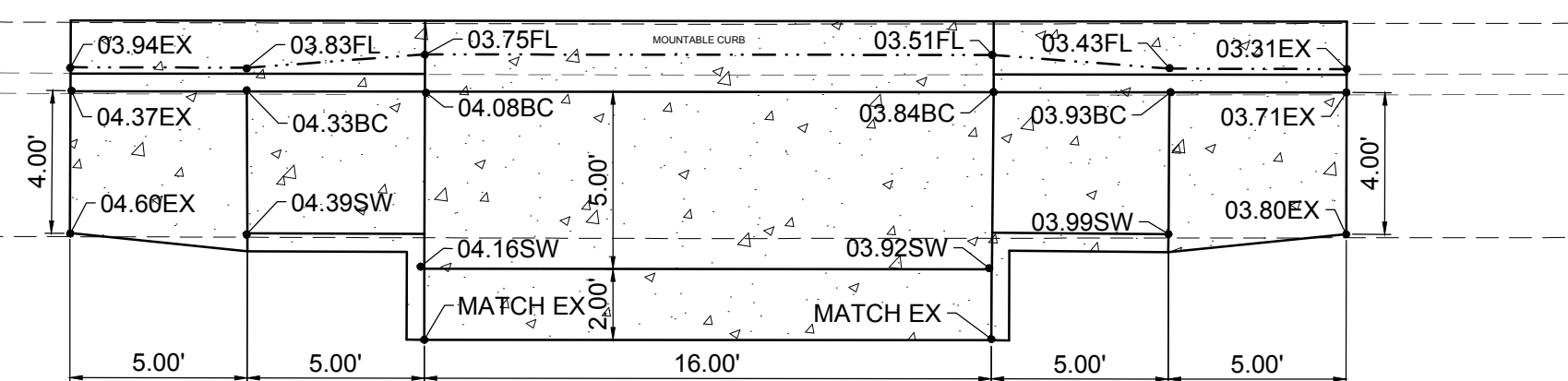


MATCH LINE-STA. 7+00 SEE SHEET RC37.0

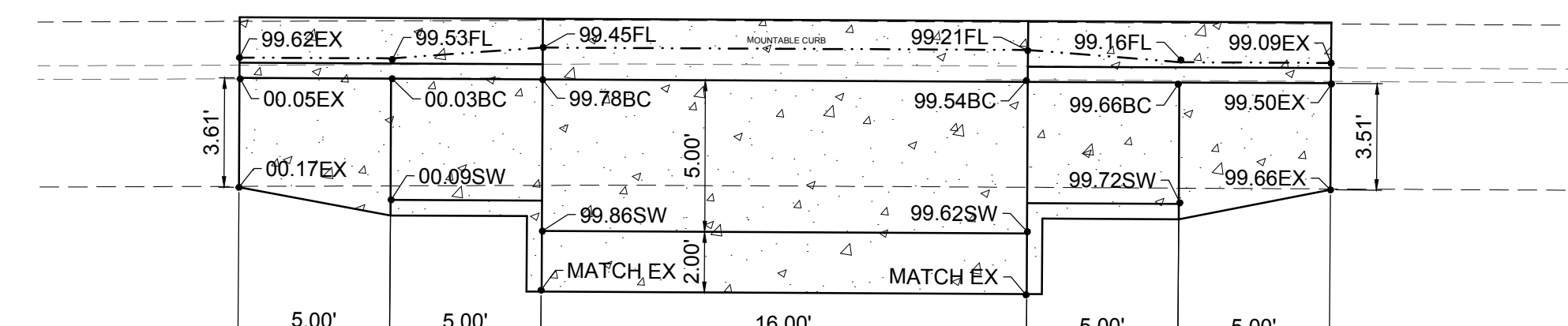
RIDGECREST DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW D
FULL SCALE: 1:5 HALF SCALE 1:10

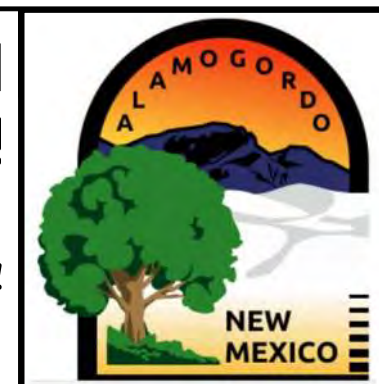


SCALED VIEW E
FULL SCALE: 1:5 HALF SCALE 1:10

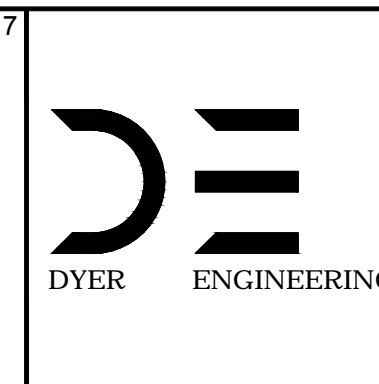
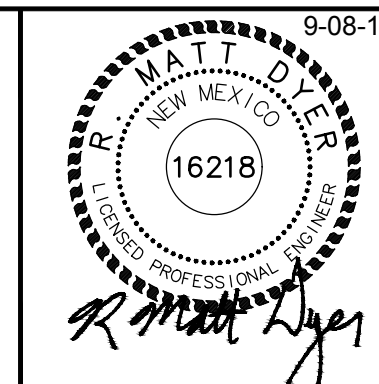


SCALED VIEW F
FULL SCALE: 1:5 HALF SCALE 1:10

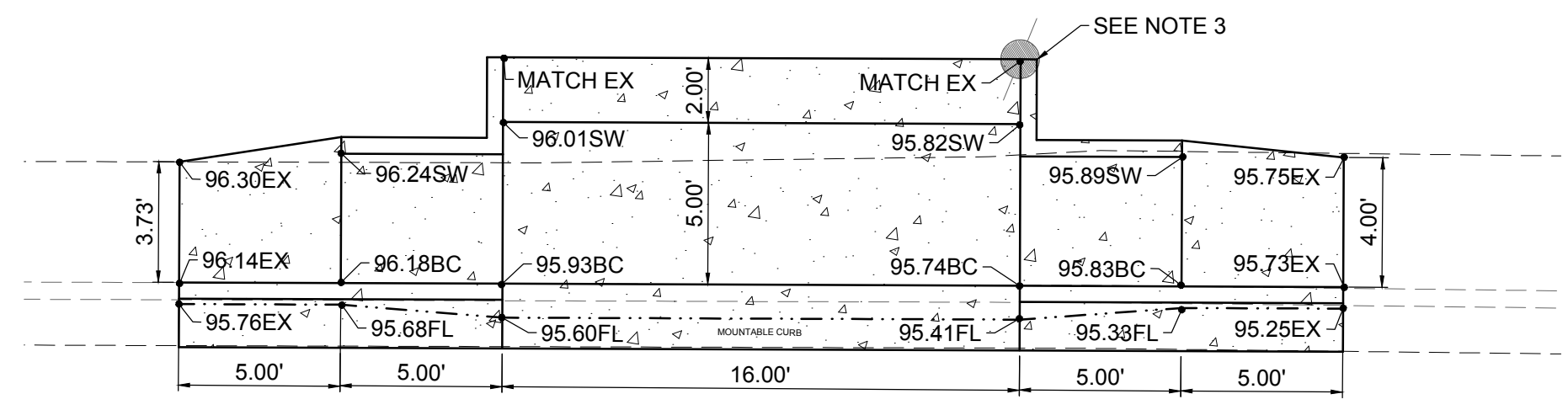
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
RIDGECREST DRIVE ROAD CONSTRUCTION PLAN
STATION 0+39 TO 7+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010	Sheet No.:	RC 36.0
Drawn By:	AD	Designed By:	AD
Checked By:	MD	Approved By:	MD
Scale: Horiz.:	VARIES	Vert.:	n/a
			Sheet 52 of 103
			EN1701



SCALED VIEW A
FULL SCALE: 1:5 HALF SCALE 1:10

NOTES:

1. NOT USED
2. NOT USED
3. CONTRACTOR TO MODIFY RETAINING CURB TO INCORPORATE EXISTING POLE.
4. SEE DETAIL "CHANNEL PAVEMENT SECTION" ON SHEET D3.0 FOR THE PAVEMENT CROSS SECTION TO BE USED FOR THE DRAINAGE CHANNEL BETWEEN MCKINLEY AND THE ARROYO.
5. SEE DRAWING RC-29 FOR DETAILS AND SECTION VIEWS OF THE CONCRETE DRAINAGE CHANNEL INLET.

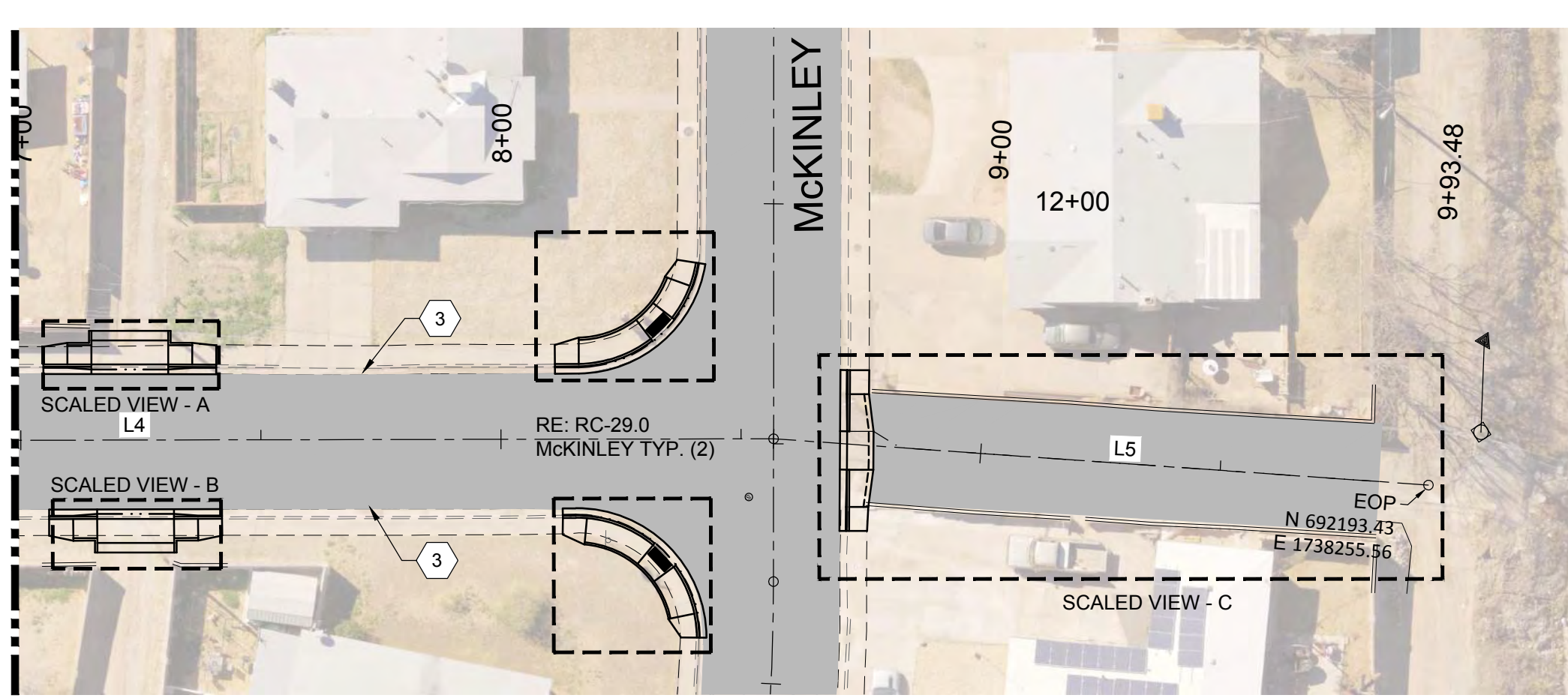
CONSTRUCTION PLAN KEY NOTES:

1. 2" COLD MILL & HMA SP-IV INLAY. TACK COAT MILLED SURFACE. MATCH ADJACENT CURB & GUTTER ELEVATIONS.
2. MATCH EXISTING PAVEMENT ELEVATION.
3. EXISTING CURB & GUTTER NOT TO BE DISTURBED.
4. APPLY TACK COAT TO PAVEMENT CUT.
5. ADJUST MANHOLE TO GRADE.
6. CAUTION: OVERHEAD UTILITY LINES.
7. CURB & GUTTER TO BE REMOVED AND REPLACED.
8. ADJUST VALVE BOX TO GRADE.

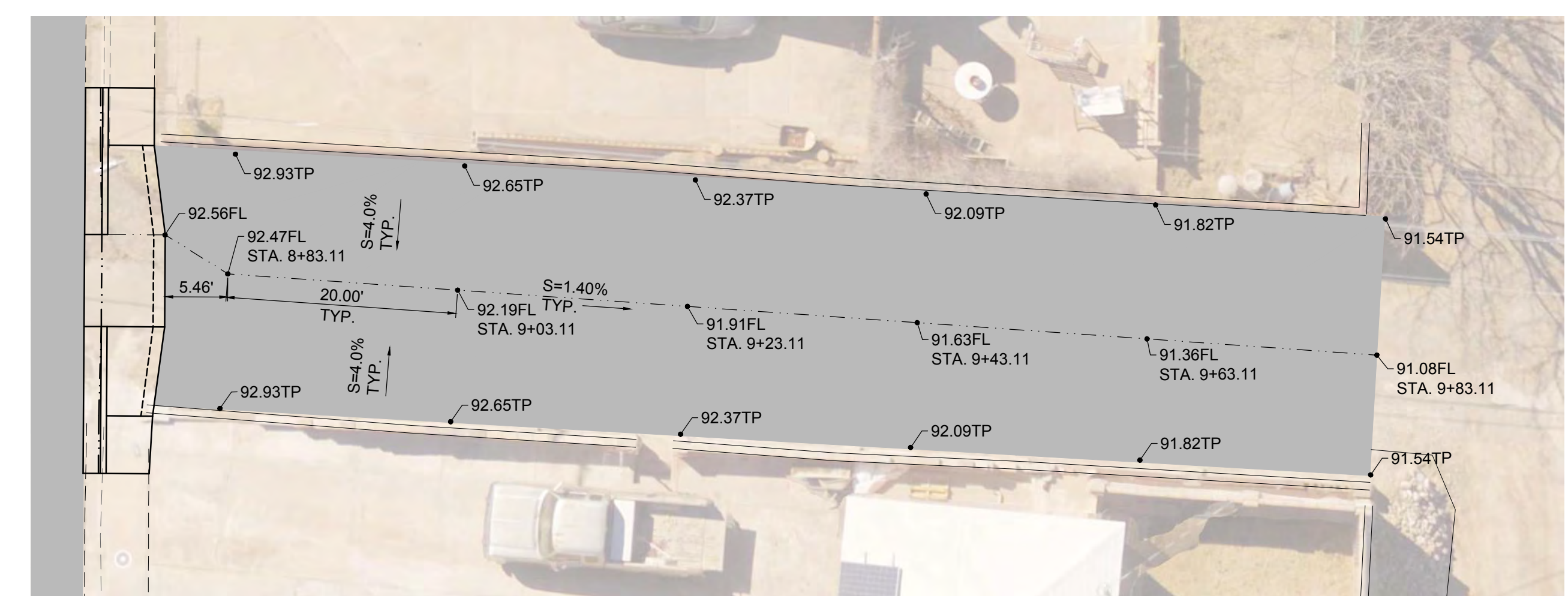
LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

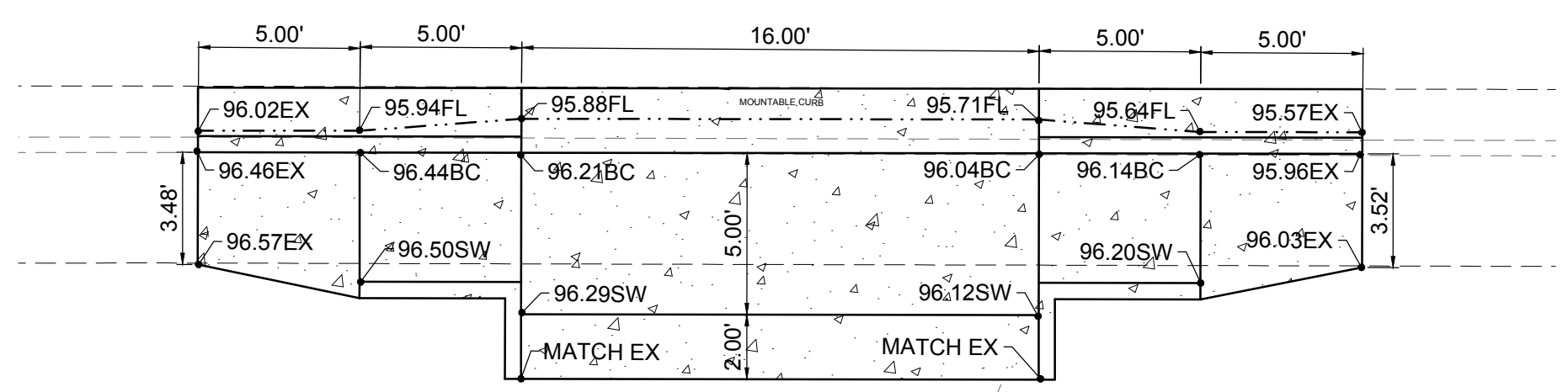
MATCH LINE-STA: 7+00 SEE SHEET RC36.0



RIDGECREST DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



SCALED VIEW C
FULL SCALE: 1:10 HALF SCALE 1:20

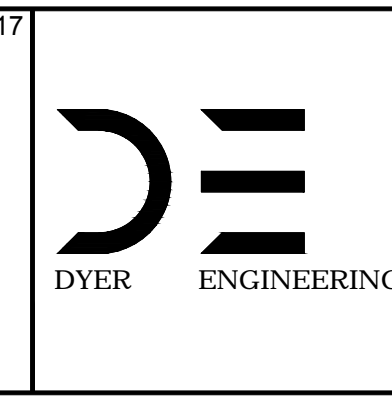
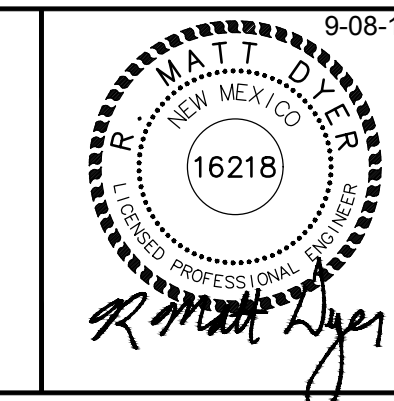


SCALED VIEW B
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

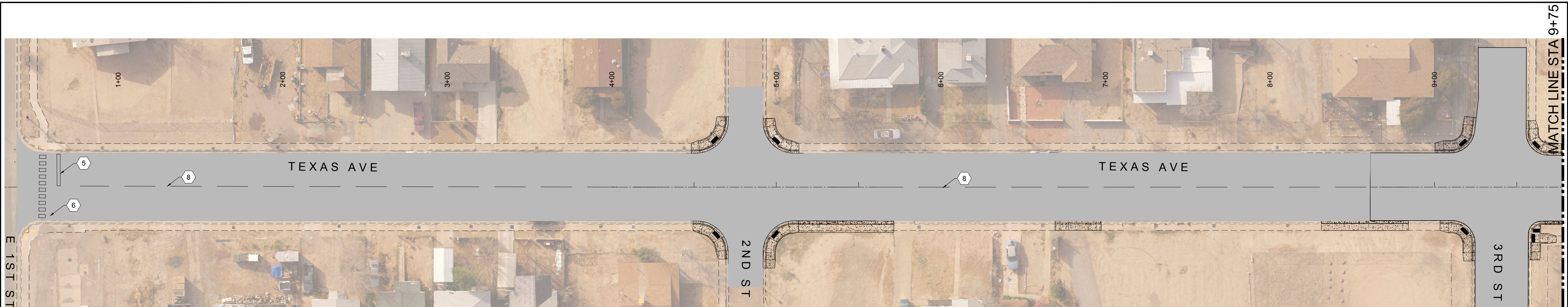


Street Maintenance Program FY 2017
RIDGECREST DRIVE ROAD CONSTRUCTION PLAN
STATION 7+00 TO 9+93
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

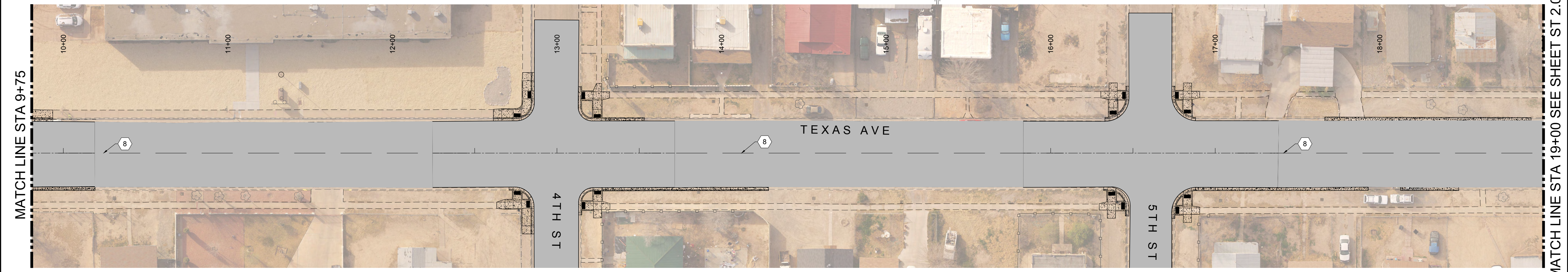


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	VARIES
Vert.:	n/a

Sheet No.:	RC 37.0
Sheet 53 of 103	
EN1701	



TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60



TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60

CONSTRUCTION PLAN KEY NOTES:

1. NEW 4" SOLID WHITE LINE.
2. WHITE LANE USAGE ARROW - LEFT
3. WHITE LANE USAGE ARROW - STRAIGHT - RIGHT
4. WHITE LANE USAGE "ONLY".
5. 24" SOLID WHITE STOP BAR - 4' FROM CROSSWALK
6. 24" SOLID WHITE CROSSWALK
7. DOUBLE 4" WIDE, SOLID YELLOW LINES.
8. 4" CENTERLINE DASHED YELLOW LINE.

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

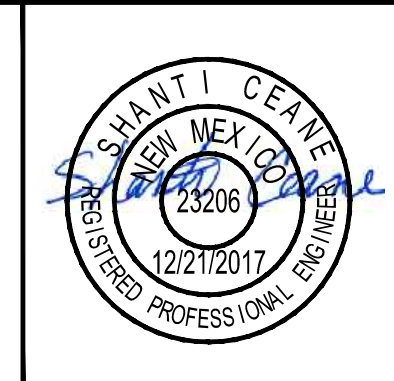
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

TEXAS AVENUE STRIPING PLAN STATION 0+00 TO 19+00

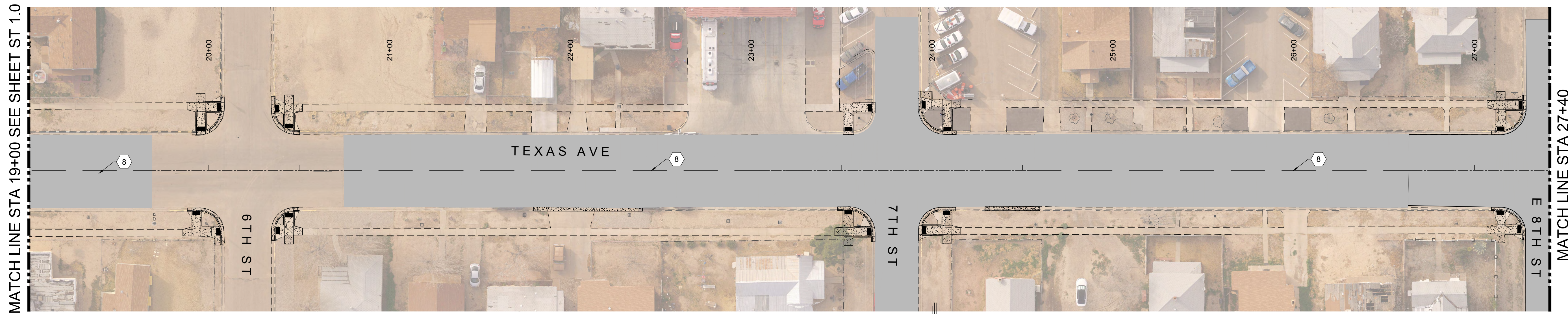
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



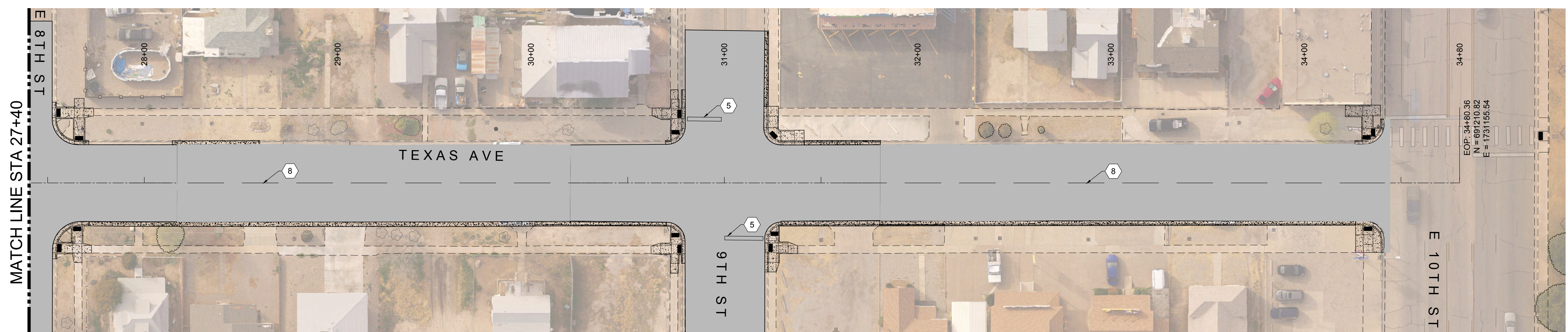
OEI Ocean Engineers, Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	OT
Designed By:	OT
Checked By:	SC
Approved By:	SC
Scale: Horiz.:	1" = 30'
Vert.:	n/a

Sheet No.:	ST 1.0
Sheet	54 of 103
	EN1701



TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60



TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60

CONSTRUCTION PLAN KEY NOTES:

1. NEW 4" SOLID WHITE LINE.
2. WHITE LANE USAGE ARROW - LEFT
3. WHITE LANE USAGE ARROW - STRAIGHT - RIGHT
4. WHITE LANE USAGE "ONLY".
5. 24" SOLID WHITE STOP BAR - 4' FROM CROSSWALK
6. 24" SOLID WHITE CROSSWALK
7. DOUBLE 4" WIDE, SOLID YELLOW LINES.
8. 4" CENTERLINE DASHED YELLOW LINE.

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED

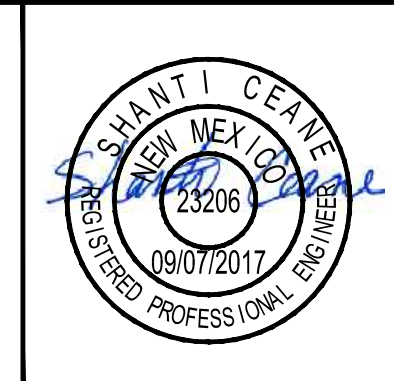
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017

TEXAS AVENUE STRIPING PLAN STATION 19+00 TO 34+80

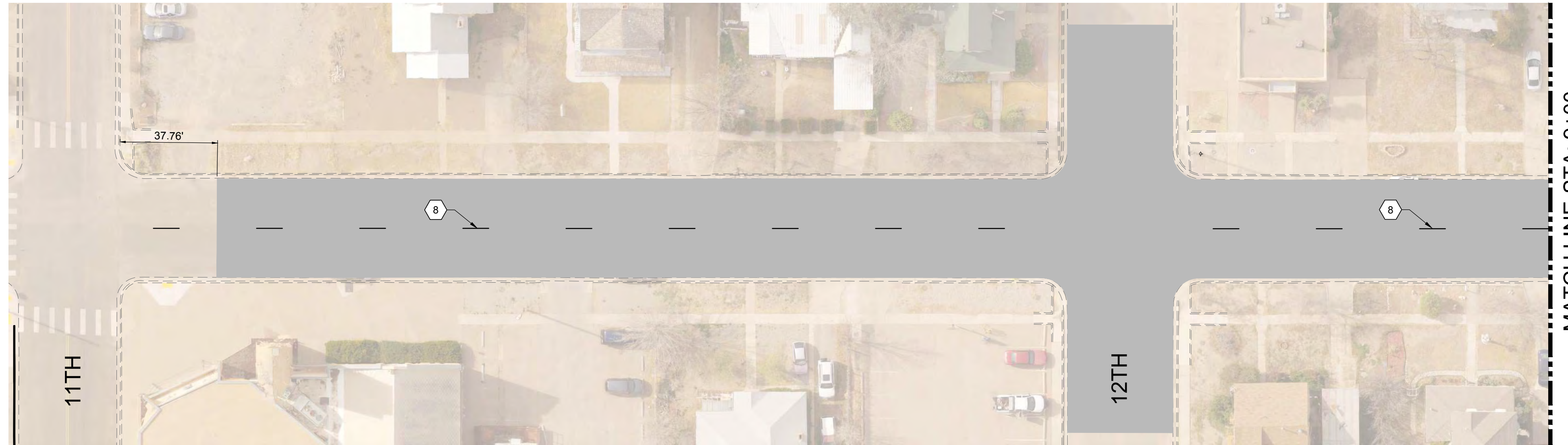
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



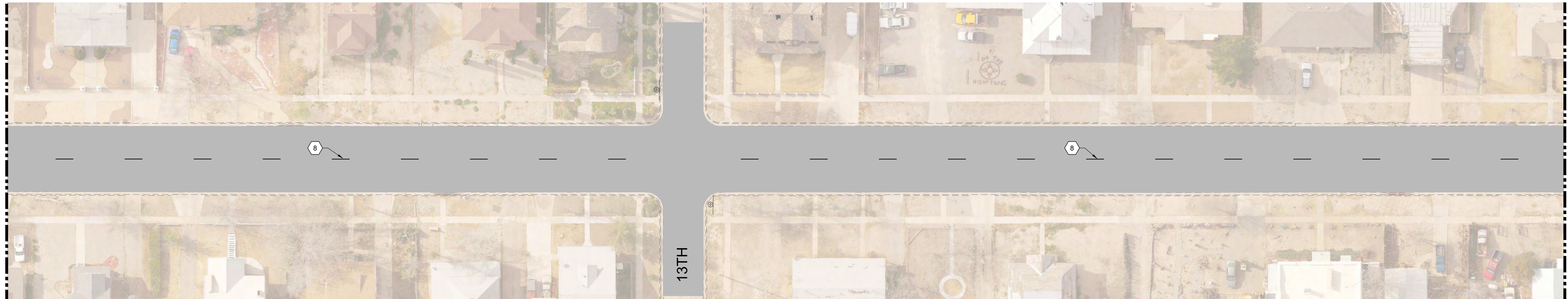
OEI Ocean Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	OT
Designed By:	OT
Checked By:	SC
Approved By:	SC
Scale: Horiz.:	1" = 30'
Vert.:	n/a

Sheet No.:	ST 2.0
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EN1701	



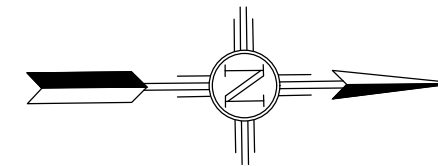
MATCH LINE-STA: 9+00



MATCH LINE-STA: 9+00

MATCH LINE-STA: 18+00 SEE SHEET S6.0

MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



CONSTRUCTION PLAN KEY NOTES:

1. NEW 4" SOLID WHITE LINE
2. WHITE LANE USAGE ARROW - LEFT
3. WHITE LANE USAGE ARROW - STRAIGHT - RIGHT
4. WHITE LANE USAGE "ONLY"
5. 24" SOLID WHITE STOP BAR - 4' FROM CROSSWALK
6. 24" SOLID WHITE CROSSWALK
7. DOUBLE 4" WIDE, SOLID YELLOW LINES
8. 4" CENTERLINE DASHED YELLOW LINE

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

Street Maintenance Program FY 2017
MICHIGAN AVENUE STRIPING PLAN
STATION 0+41 TO 18+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=30'
Scale: Vert.:	n/a

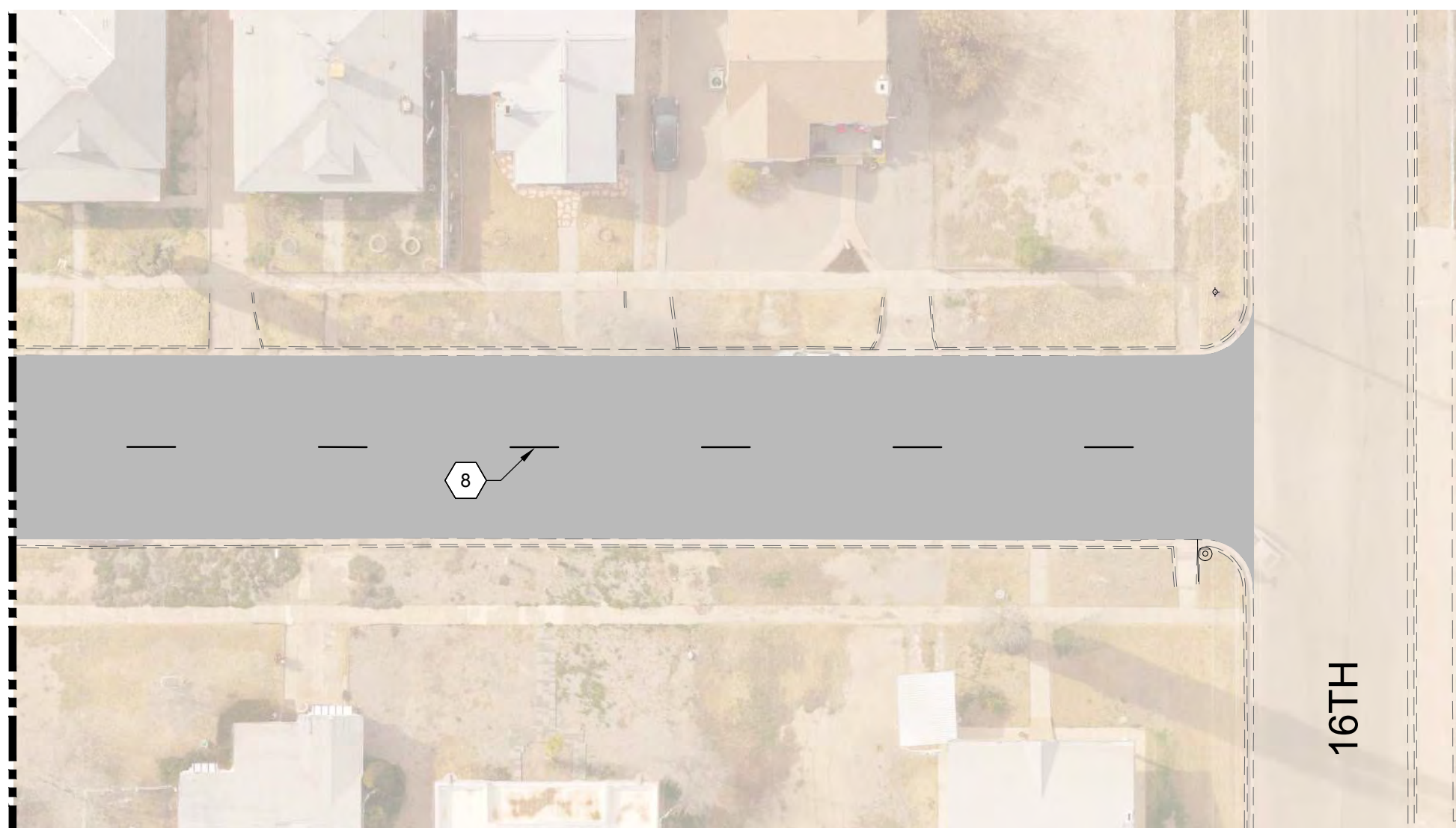
Sheet No.:	S 5.0
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EN1701	

MATCH LINE-STA: 18+00 SEE SHEET S5.0

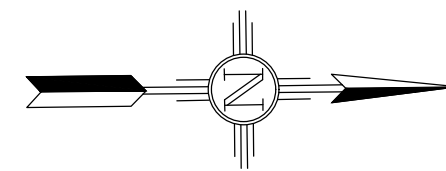
MATCH LINE-STA: 27+00



MATCH LINE-STA: 27+00



MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



CONSTRUCTION PLAN KEY NOTES:

1. NEW 4" SOLID WHITE LINE
2. WHITE LANE USAGE ARROW - LEFT
3. WHITE LANE USAGE ARROW - STRAIGHT - RIGHT
4. WHITE LANE USAGE "ONLY"
5. 24" SOLID WHITE STOP BAR - 4' FROM CROSSWALK
6. 24" SOLID WHITE CROSSWALK
7. DOUBLE 4" WIDE, SOLID YELLOW LINES
8. 4" CENTERLINE DASHED YELLOW LINE

LEGEND	
NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

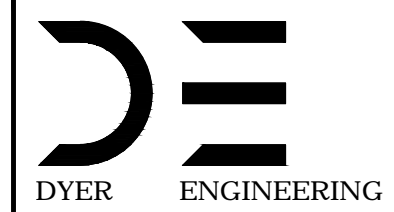
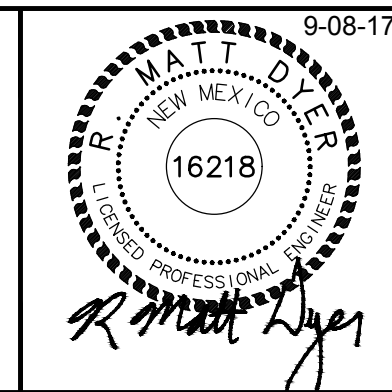
NMO MICHIGAN AVENUE STRIPING PLAN



Street Maintenance Program FY 2017

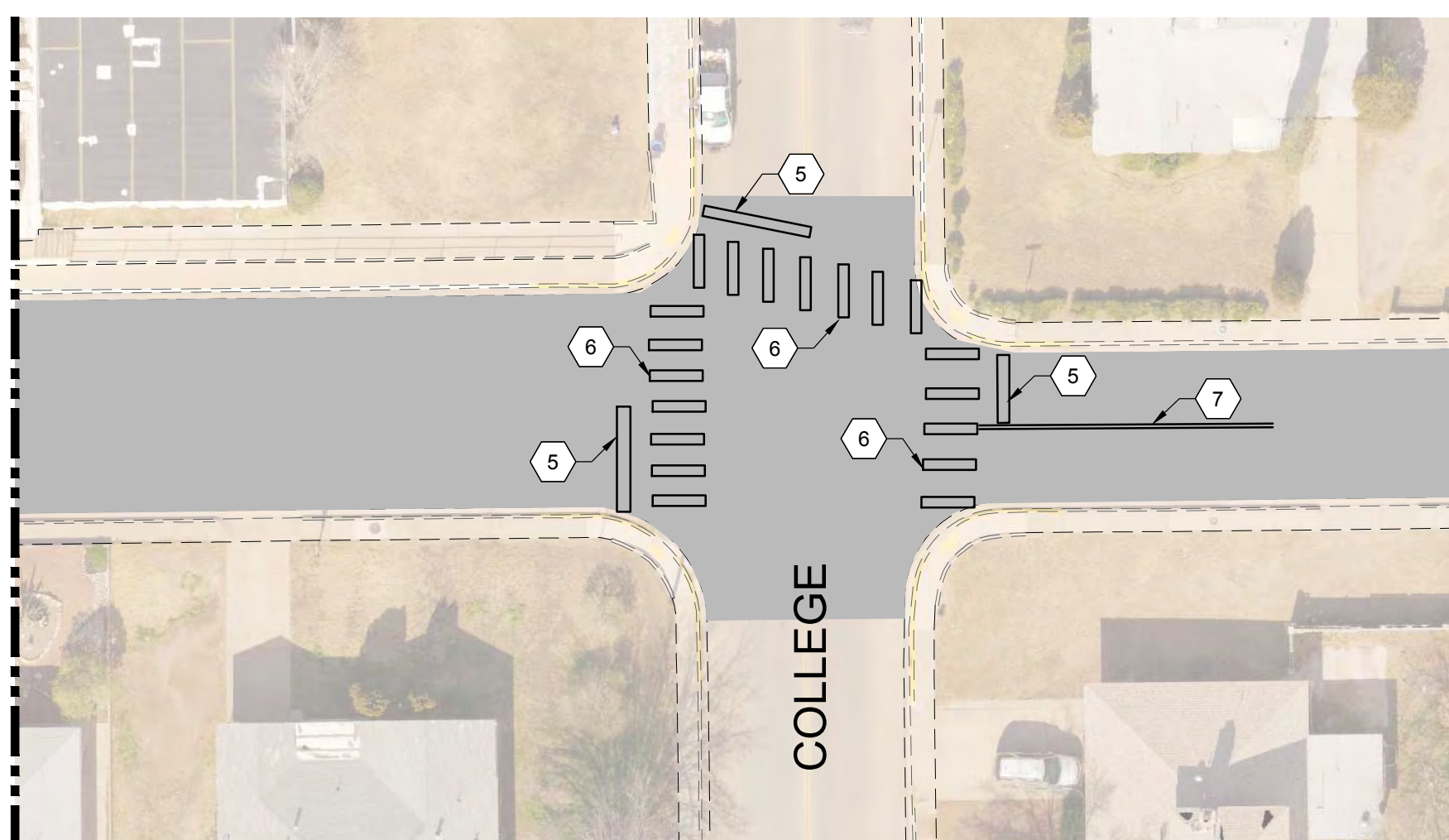
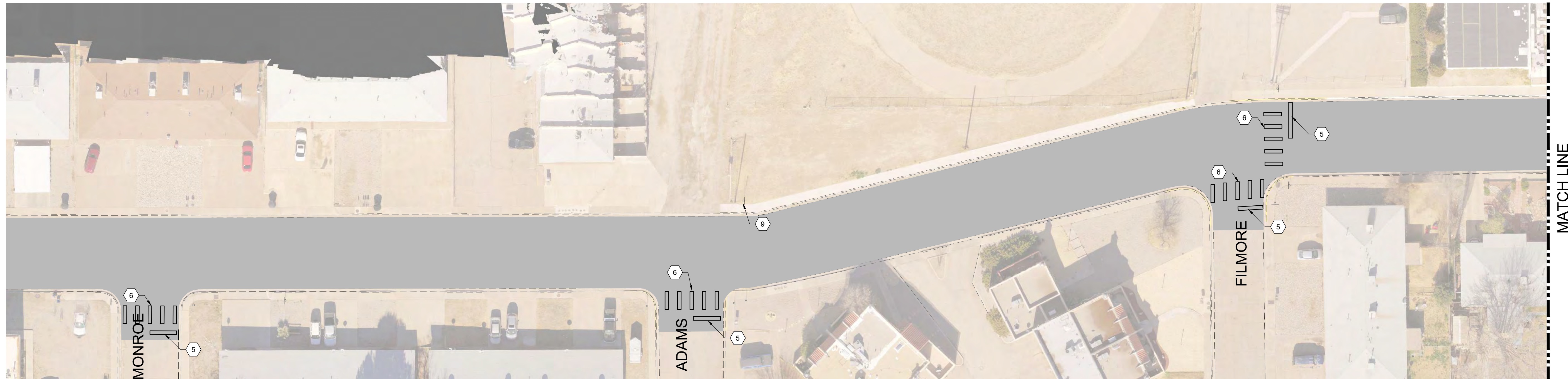
MICHIGAN AVENUE STRIPING PLAN STATION 18+00 TO 29+57

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

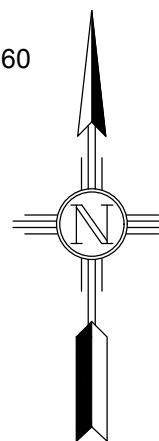


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	1"=30'
Vert.:	n/a

Sheet No.:	S 6.0
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EN1701	



ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



CONSTRUCTION PLAN KEY NOTES:

1. NEW 4" SOLID WHITE LINE
2. WHITE LANE USAGE ARROW - LEFT
3. WHITE LANE USAGE ARROW - STRAIGHT - RIGHT
4. WHITE LANE USAGE "ONLY"
5. 24" SOLID WHITE STOP BAR - 4' FROM CROSSWALK
6. 24" SOLID WHITE CROSSWALK
7. DOUBLE 4" WIDE, SOLID YELLOW LINES
8. 4" CENTERLINE DASHED YELLOW LINE
9. REMOVE EXISTING PEDESTRIAN CROSSWALK SIGN

LEGEND

NEW 2" COLD MILL & HMA SP-IV INLAY	
NEW 3" HMA SP-IV	
NEW CONCRETE	
NEW CURB & GUTTER	
EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING SEWER MAHOLE	
EXISTING TELEPHONE MANHOLE	
EXISTING ROADWAY CENTERLINE	
EXISTING OVER HEAD ELECTRIC LINES	

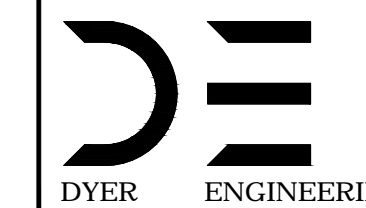
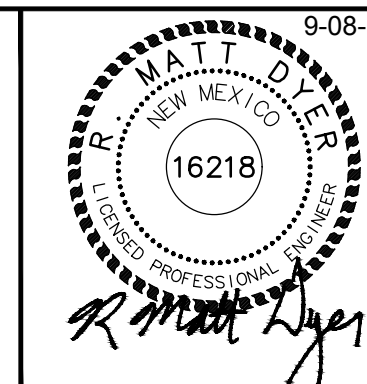
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

ASPEN DRIVE STRIPING PLAN STATION 9+00 TO 20+00

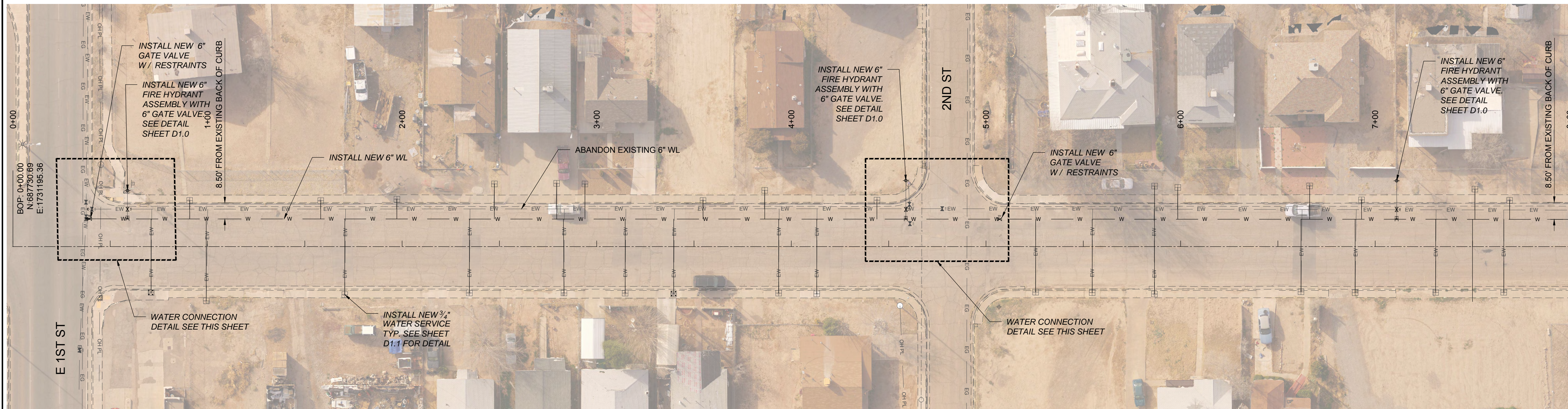
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD

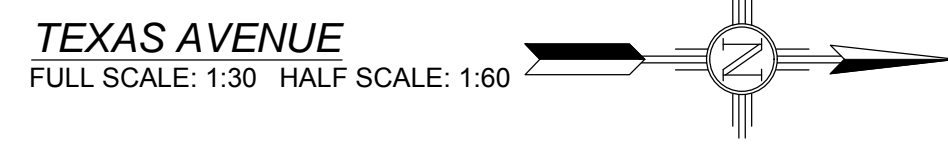
Scale: Horiz.: 1"=30' Vert.: n/a

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EN1701	

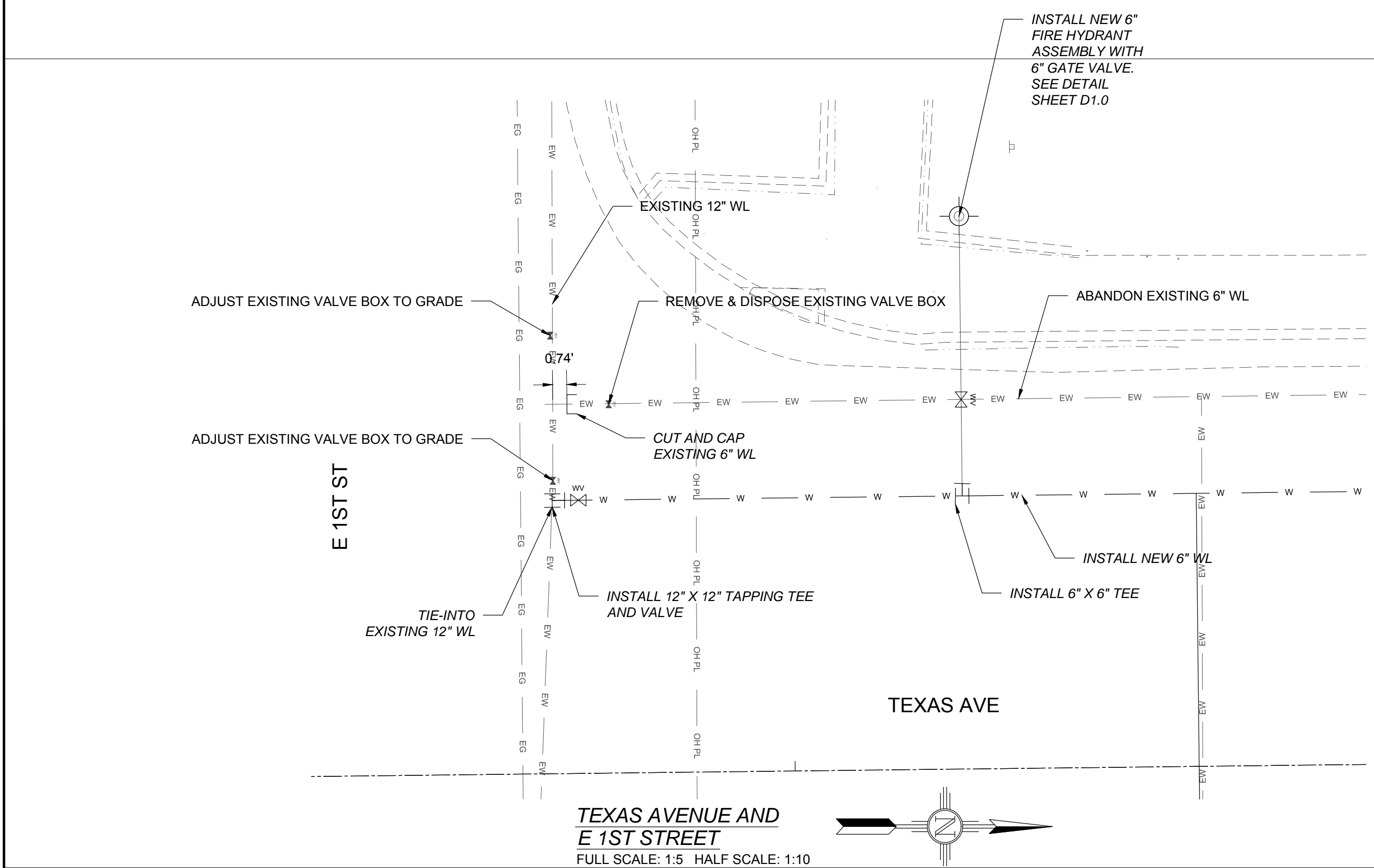


TEXAS AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
0+70.59, 23.61 RT	3/4"	37.80'
0+90.83, 23.66 LT	3/4"	9.47'
0+99.34, 27.84 RT	3/4"	42.03'
1+58.16, 23.58 LT	3/4"	9.41'
1+70.51, 24.66 RT	3/4"	38.83'
1+97.31, 24.29 LT	3/4"	10.13'
2+34.56, 23.79 RT	3/4"	37.93'
2+47.40, 32.17 LT	3/4"	18.03'
2+79.43, 32.44 LT	3/4"	18.30'
2+83.16, 23.80 RT	3/4"	37.94'
2+93.95, 32.14 LT	3/4"	18.01'
3+14.61, 23.88 RT	3/4"	38.00'
3+39.51, 24.20 RT	3/4"	38.32'
3+54.62, 23.60 LT	3/4"	9.50'
3+86.33, 28.85 LT	3/4"	14.75'
3+93.48, 23.91 RT	3/4"	38.00'
4+13.06, 24.22 RT	3/4"	38.31'
4+44.02, 23.85 LT	3/4"	8.81'
5+25.54, 23.38 RT	3/4"	37.44'
5+54.60, 23.65 RT	3/4"	37.70'
5+86.61, 24.34 RT	3/4"	38.39'
5+86.65, 31.04 LT	3/4"	17.00'
5+98.59, 30.34 LT	3/4"	16.30'
6+61.90, 23.20 RT	3/4"	37.23'
6+66.35, 31.15 LT	3/4"	17.13'
6+89.73, 23.67 RT	3/4"	37.69'
6+92.99, 23.97 LT	3/4"	9.96'
7+31.08, 23.50 RT	3/4"	37.50'
7+50.00, 29.50 RT	6"	42.25'
7+51.26, 29.50 LT	3/4"	15.51'
7+68.10, 23.44 RT	3/4"	37.44'
7+69.11, 23.70 LT	3/4"	9.71'

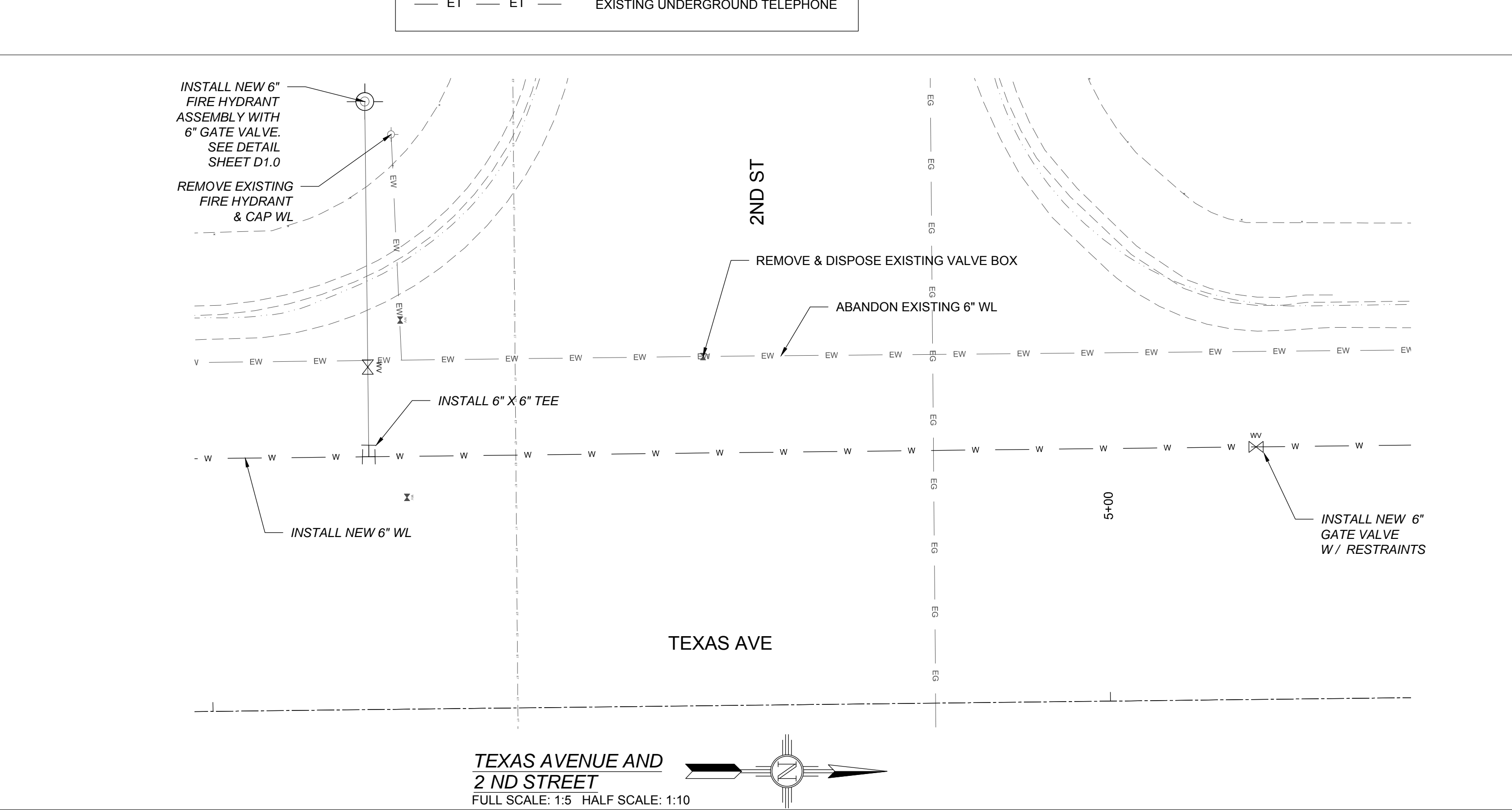
TEXAS AVE. 6" FIRE HYDRANT ASSEMBLY		
STA. AND OFFSET	LENGTH	
0+58.84, 28.74 LT	14.55'	
4+58.85, 33.86 LT	19.78'	
7+11.05, 33.79 LT	19.78'	



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE



TEXAS AVENUE AND E 1ST STREET
FULL SCALE: 1:5 HALF SCALE: 1:10



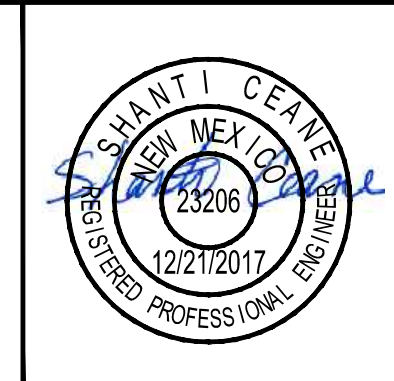
TEXAS AVENUE AND 2ND STREET
FULL SCALE: 1:5 HALF SCALE: 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY 2017
TEXAS AVENUE WATER LINE REPLACEMENT PLAN STATION 0+00 TO 8+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



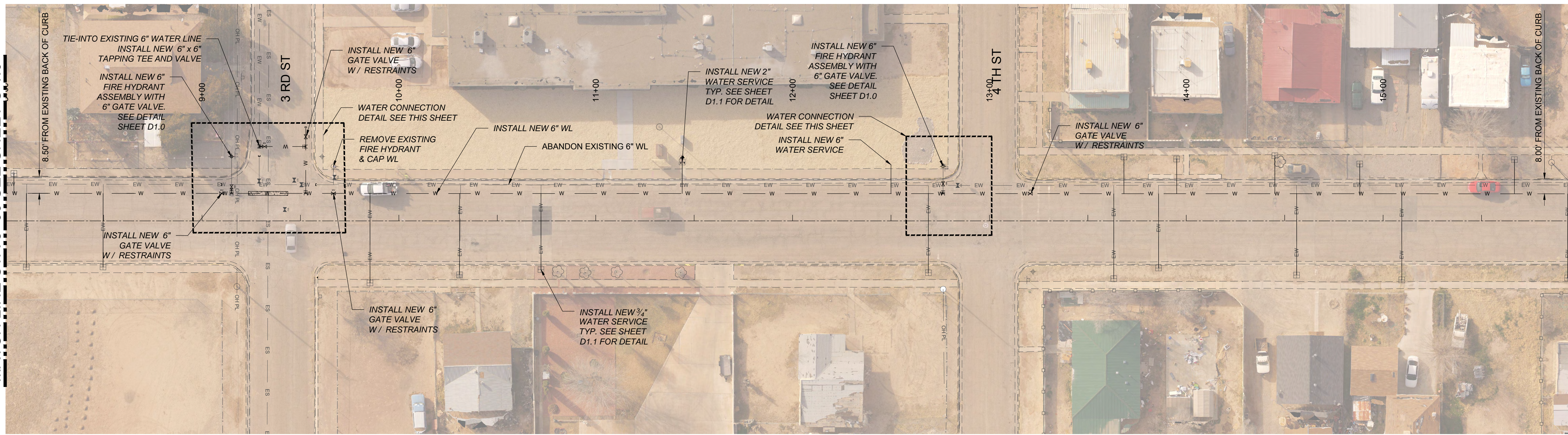
OEI Ocean Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	TM
Designed By:	TM
Checked By:	SC
Approved By:	SC
Scale:	Horiz.: VARIES Vert.: n/a

Sheet No.:	U1.0
Sheet	61 of 103
EN1701	

MATCH LINE STA 8+00 SEE SHEET U 1.0

MATCH LINE STA 16+00 SEE SHEET U 3.0

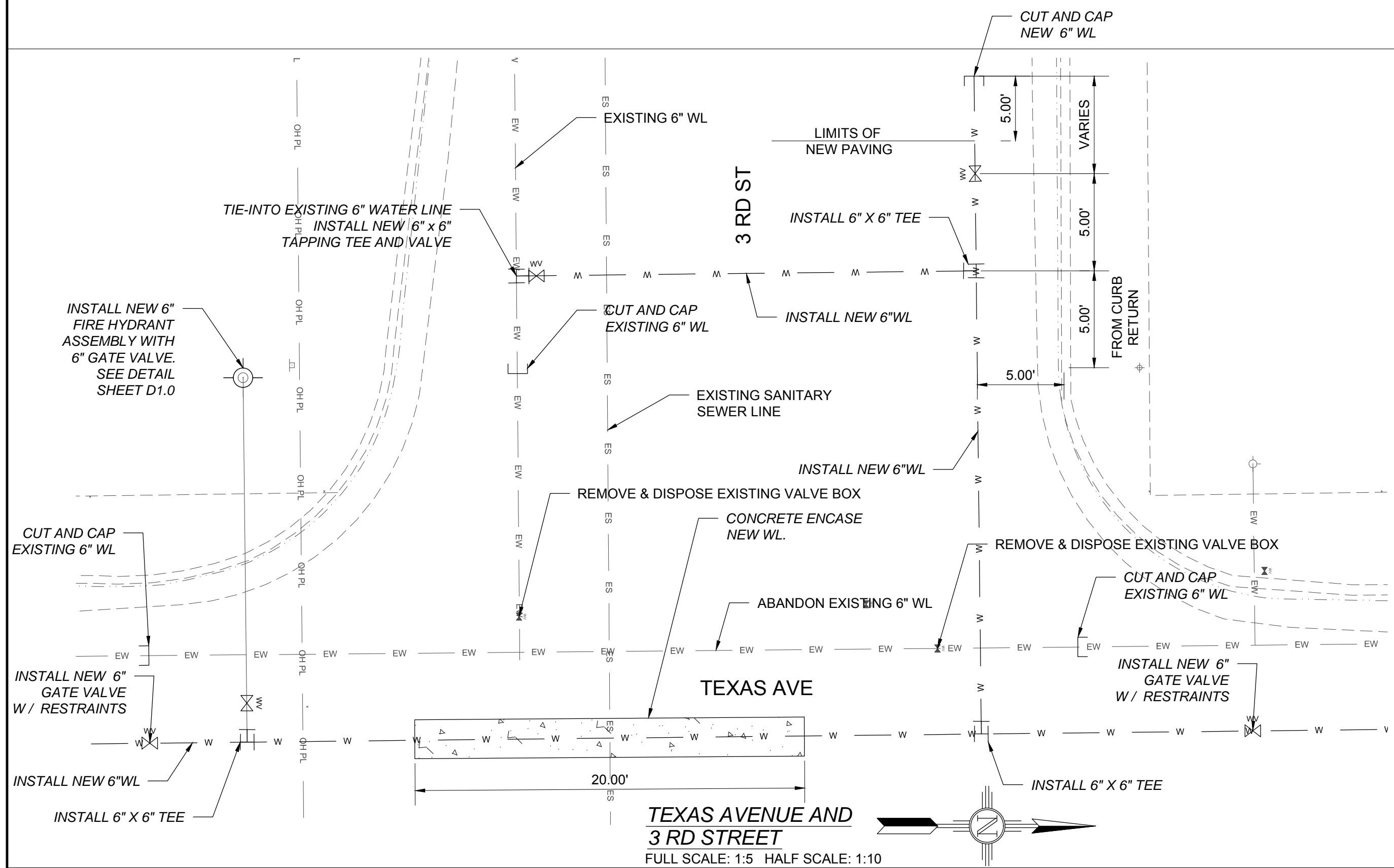


TEXAS AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
8+04.46, 24.09 LT	3/4"	10.11'
8+10.73, 23.39 RT	3/4"	37.37'
8+49.74, 23.36 RT	3/4"	37.33'
9+85.34, 31.47 RT	3/4"	45.40'
10+30.82, 27.34 RT	3/4"	41.25'
10+72.19, 24.70 RT	3/4"	38.61'
11+43.93, 29.93 LT	2"	16.05'
12+50.00, 26.33 LT	6"	14.64'
12+69.00, 26.33 RT	3/4"	40.17'
13+63.20, 29.28 RT	3/4"	43.10'
13+68.34, 32.46 LT	3/4"	18.64'
13+85.93, 23.88 RT	3/4"	37.70'
13+95.14, 31.40 LT	3/4"	17.59'
14+45.01, 33.05 LT	3/4"	19.26'
14+56.09, 27.48 RT	3/4"	41.28'
14+88.16, 28.90 LT	3/4"	15.12'
15+09.47, 29.91 RT	3/4"	43.69'
15+66.72, 31.07 LT	3/4"	17.31'
15+93.72, 28.97 RT	3/4"	42.73'

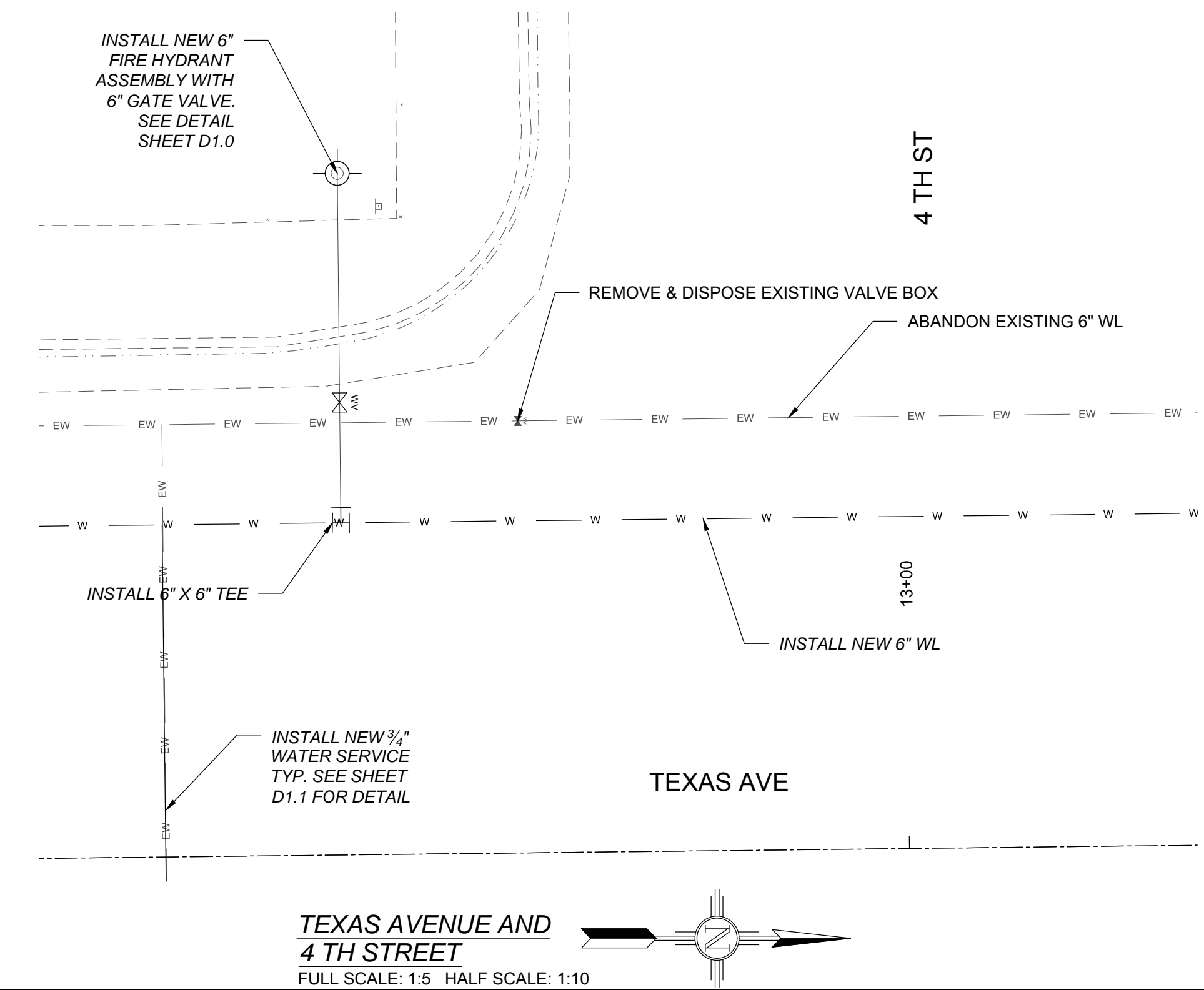
TEXAS AVE. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
9+15.00, 32.67 LT	18.72'
12+76.48, 28.41 LT	14.57'

TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60

EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE



TEXAS AVENUE AND 3RD STREET
FULL SCALE: 1:5 HALF SCALE: 1:10



TEXAS AVENUE AND 4TH STREET
FULL SCALE: 1:5 HALF SCALE: 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

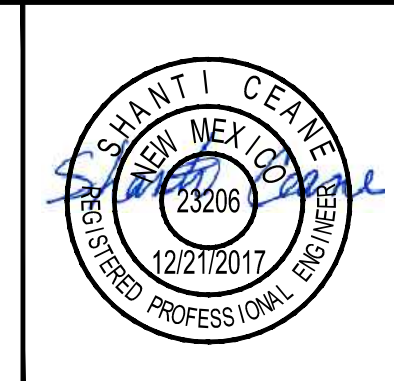
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC
 Professional Resources for Damage Prevention
 Dial 811 or 1-800-321-2537



Street Maintenance Program FY 2017

TEXAS AVENUE WATER LINE REPLACEMENT PLAN STATION 8+00 TO 16+00

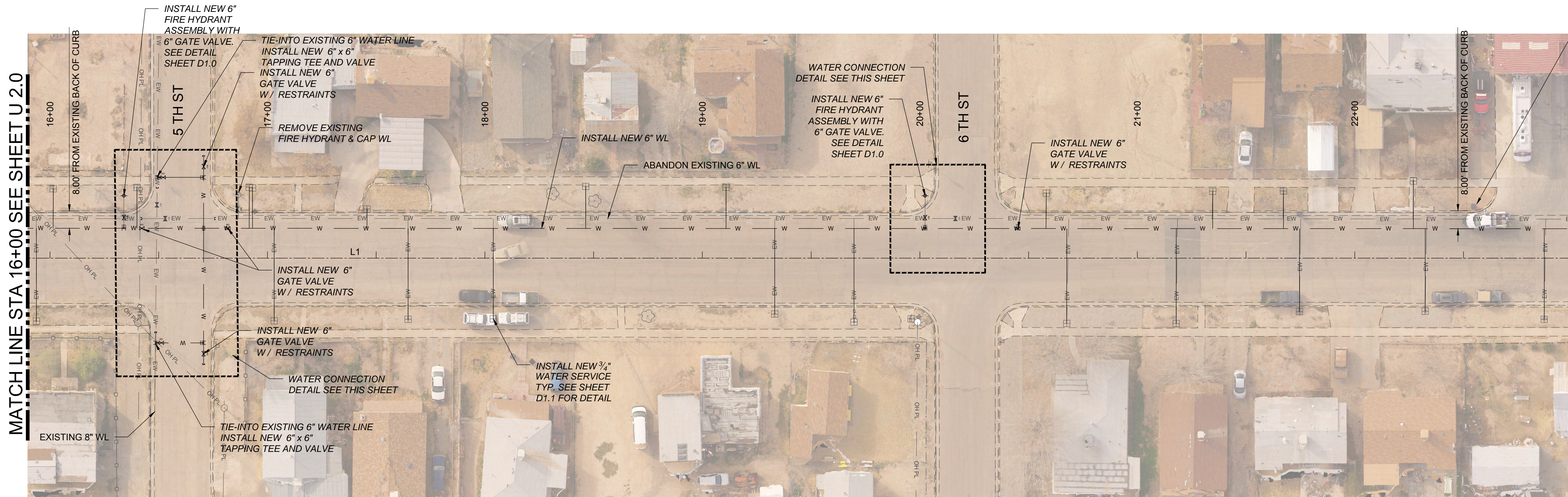
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Ocean Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010	Sheet No.:	U2.0
Drawn By:	TM	Designed By:	TM
Checked By:	SC	Approved By:	SC
Scale:	Horiz.: VARIES	Vert.:	n/a

Sheet 62 of 103
EN1701



MATCH LINE STA 16+00 SEE SHEET U 2.0

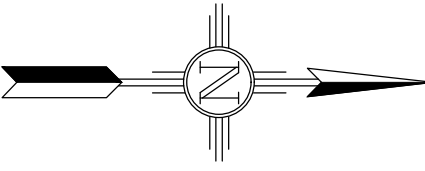
MATCH LINE STA 23+00 SEE SHEET U 4.0

CONTRACTOR NOTE:
619 TEXAS AVENUE
INSTALL WATER SAMPLING STATION.
COORDINATE LOCATION WITH OWNER.

TEXAS AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
16+01.46, 31.91 LT	3/4"	18.15'
16+40.01, 32.53 LT	3/4"	18.80'
16+91.61, 32.62 LT	3/4"	18.90'
16+93.13, 32.28 LT	3/4"	18.56'
17+03.08, 28.83 RT	3/4"	42.57'
17+45.76, 22.63 LT	3/4"	8.92'
17+64.66, 28.14 RT	3/4"	41.85'
18+03.83, 27.92 RT	3/4"	41.61'
18+46.32, 33.00 LT	3/4"	19.32'
19+10.97, 32.62 LT	3/4"	18.96'
19+33.25, 25.72 RT	3/4"	39.37'
19+69.72, 29.39 RT	3/4"	43.04'
20+58.18, 29.89 LT	3/4"	15.17'
20+67.55, 30.04 RT	3/4"	43.66'
21+17.88, 30.06 RT	3/4"	43.66'
21+34.70, 30.76 LT	3/4"	17.15'
21+67.22, 30.88 LT	3/4"	17.29'
21+74.59, 24.59 RT	3/4"	38.18'
22+26.97, 35.52 LT	3/4"	21.94'
22+32.39, 24.44 RT	3/4"	38.01'
22+87.15, 28.15 RT	3/4"	41.71'

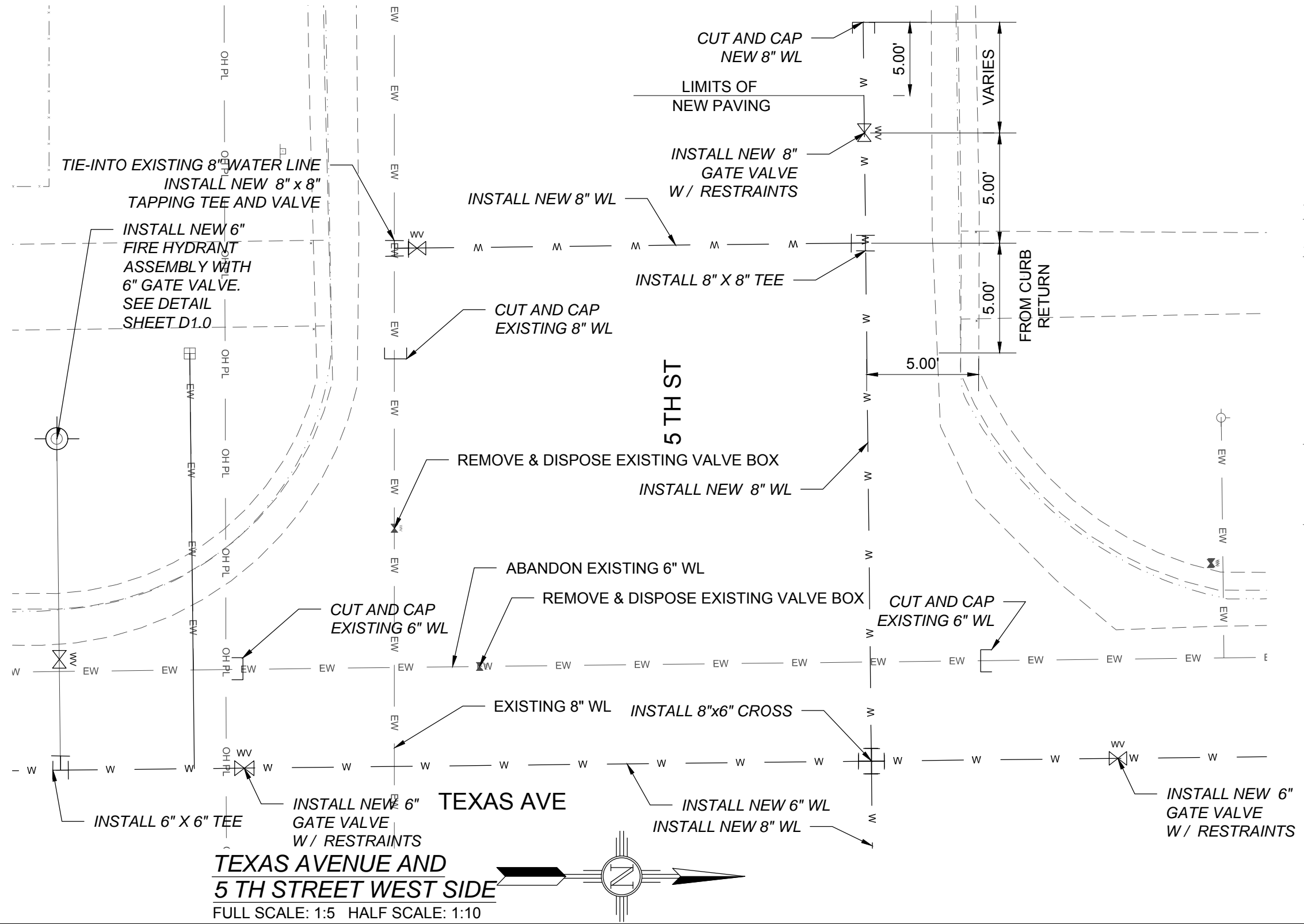
TEXAS AVE. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
16+33.95, 28.74 LT	15.00'
20+02.42, 28.74 LT	15.11'

TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60

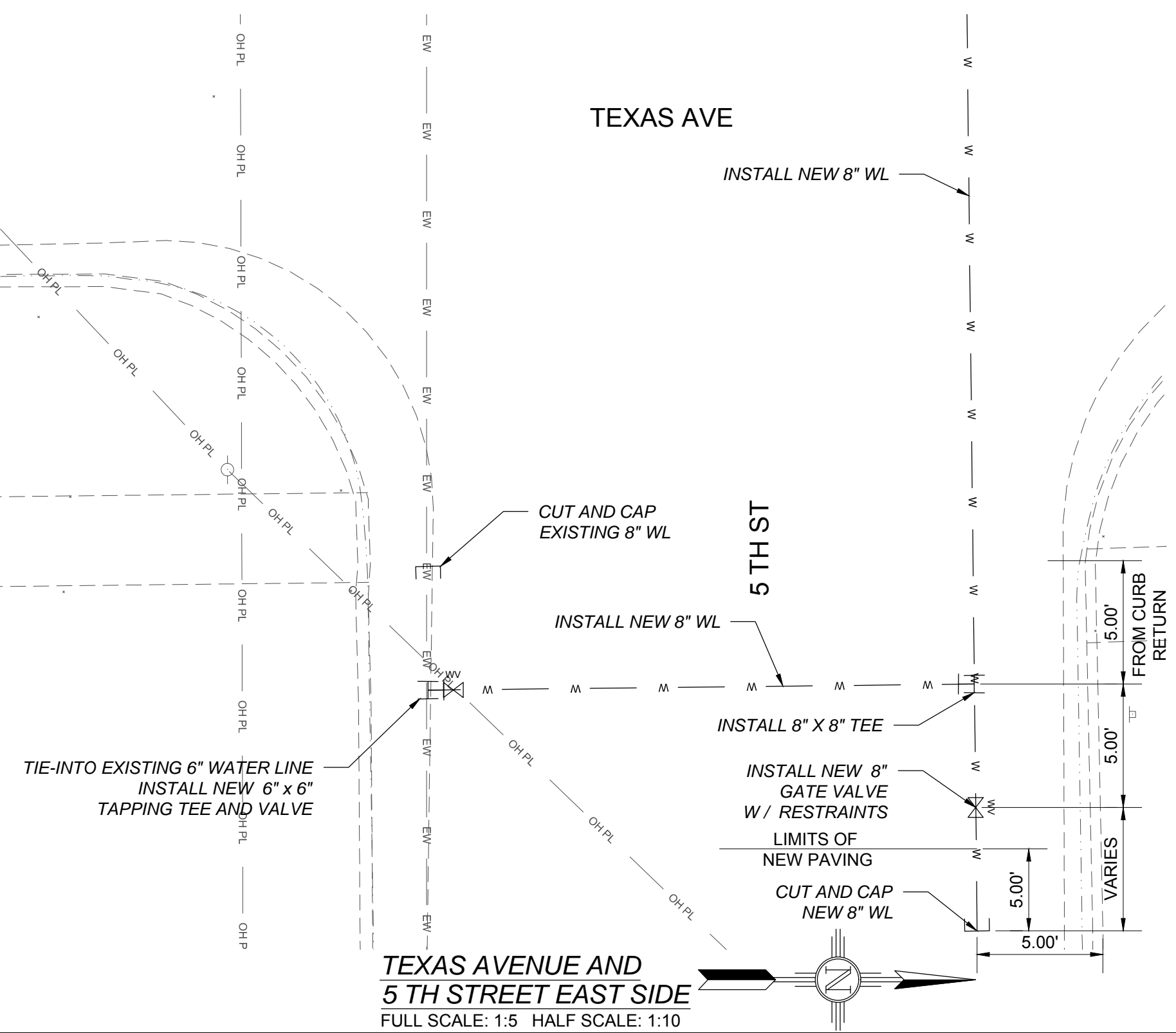


EXISTING UTILITY LEGEND

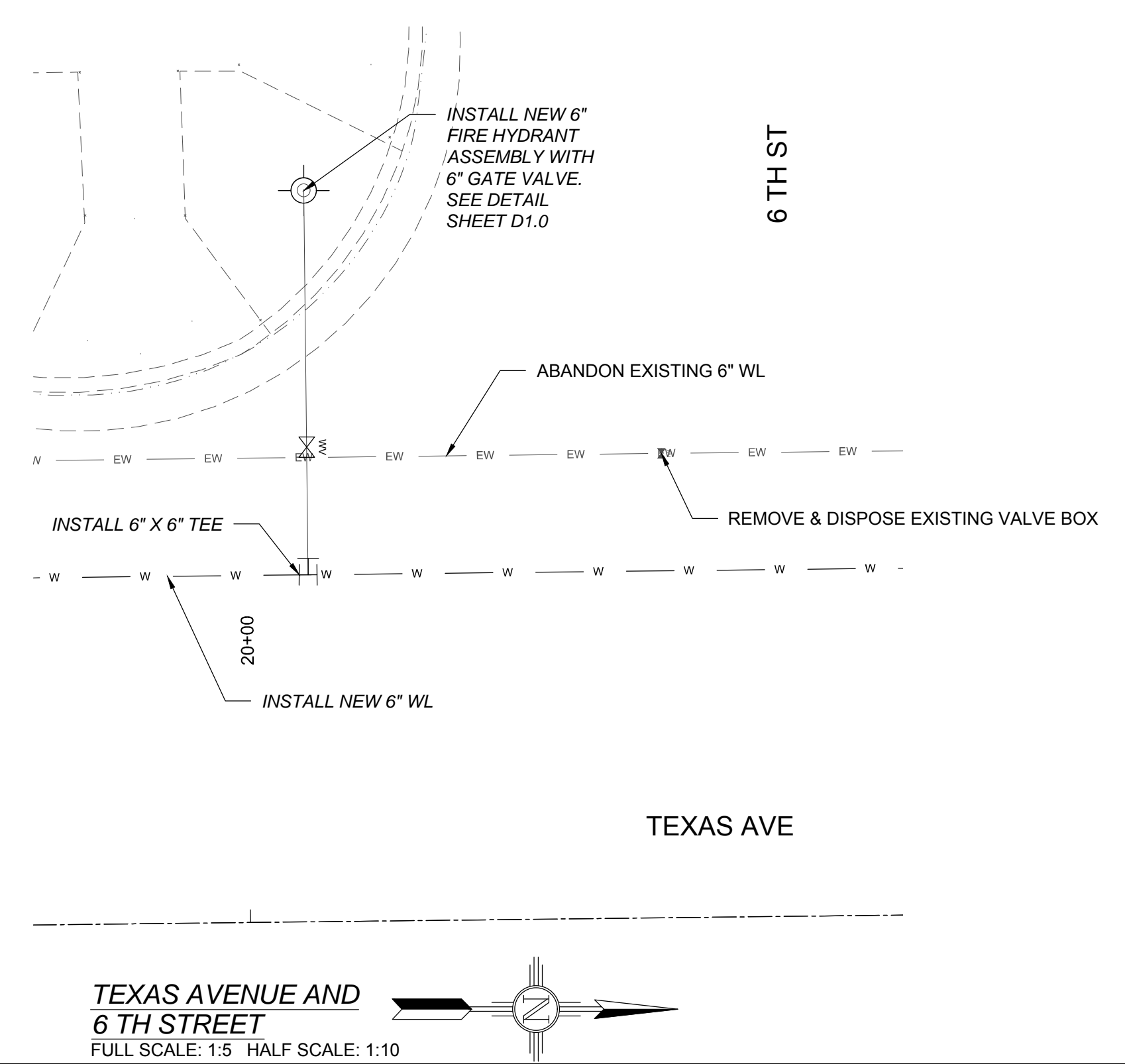
- EOHT — EOHT — EXISTING OVER HEAD TELEPHONE
- OHPL — OHPL — EXISTING OVER HEAD POWER LINE
- ES — ES — EXISTING SEWER
- EW — EW — EXISTING WATER
- EG — EG — EXISTING UNDERGROUND GAS
- ET — ET — EXISTING UNDERGROUND TELEPHONE



TEXAS AVENUE AND 5 TH STREET WEST SIDE
FULL SCALE: 1:5 HALF SCALE: 1:10



TEXAS AVENUE AND 5 TH STREET EAST SIDE
FULL SCALE: 1:5 HALF SCALE: 1:10



TEXAS AVENUE AND 6 TH STREET
FULL SCALE: 1:5 HALF SCALE: 1:10

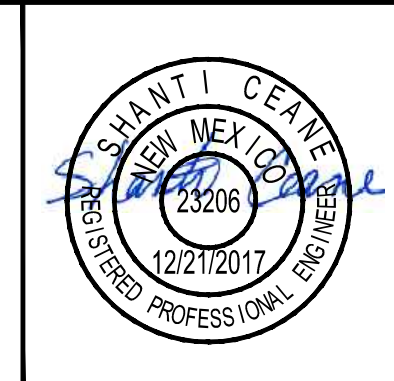
REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

New Mexico One Call, Inc. Call 2 days before you dig!

 Professional Resources for Damage Prevention
 Dial 811 or 1-800-321-2537



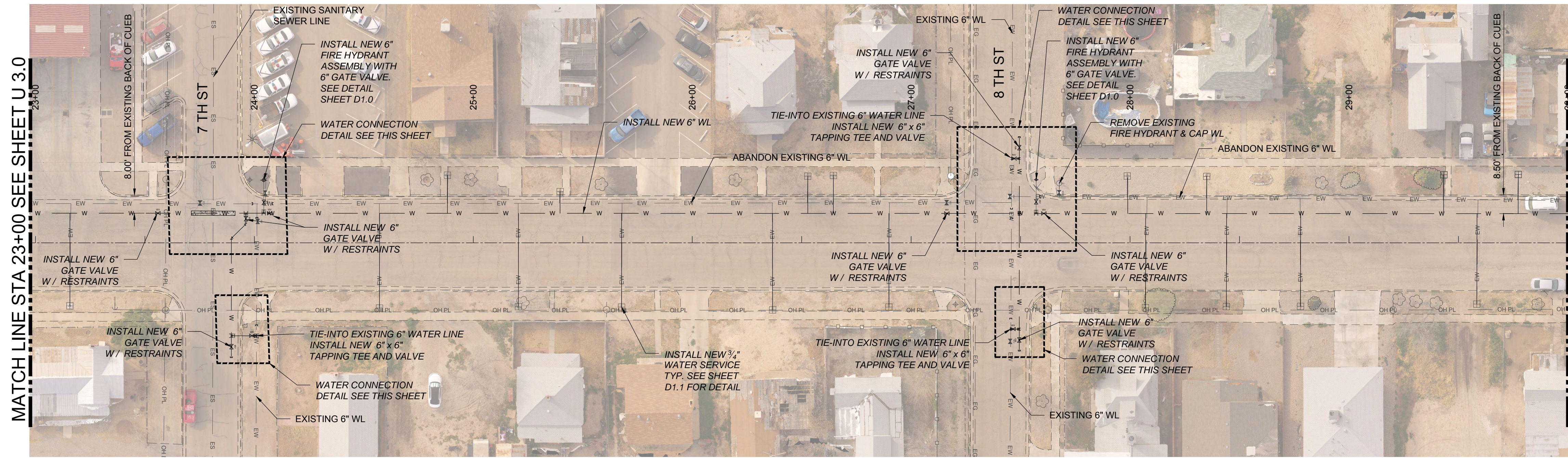
Street Maintenance Program FY 2017
TEXAS AVENUE WATER LINE
REPLACEMENT PLAN STATION 16+00 TO 23+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT




 Ocean Engineers, Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.: 2017-010
 Drawn By: TM Designed By: TM
 Checked By: SC Approved By: SC
 Scale: Horiz.: VARIES Vert.: n/a

Sheet No.: **U3.0**
 Sheet 63 of 103
 EN1701



MATCH LINE STA 23+00 SEE SHEET U 3.0

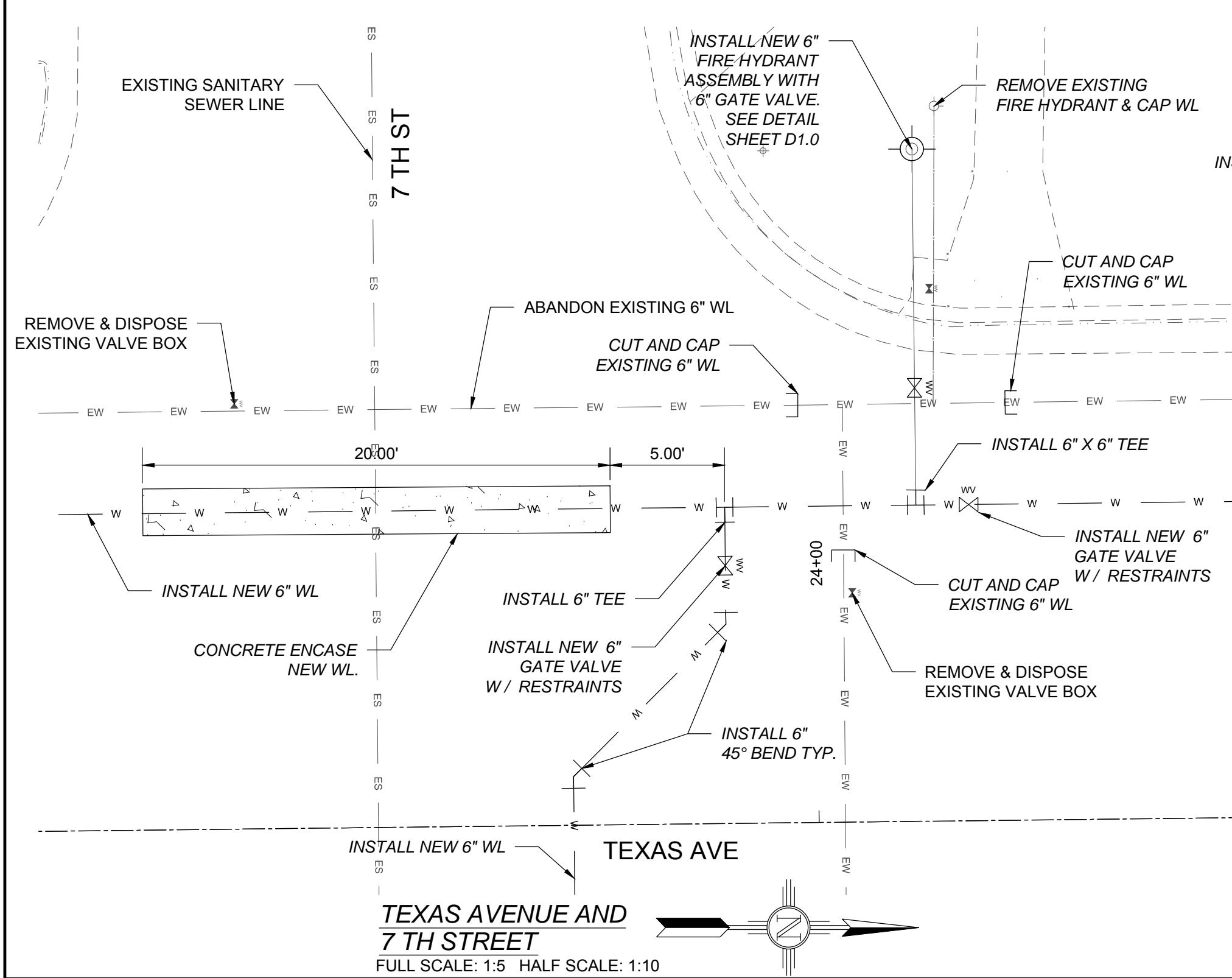
MATCH LINE STA 30+00 SEE SHEET U 5.0

TEXAS AVE. WATER SERVICES			
STA. AND OFFSET	SIZE	LENGTH	
23+15.74, 28.81 RT	3/4"	42.36'	
24+57.18, 28.82 RT	3/4"	43.32'	
24+88.20, 30.92 LT	3/4"	17.42'	
25+20.62, 29.16 RT	3/4"	42.64'	
25+39.68, 23.43 LT	3/4"	9.95'	
25+67.75, 29.37 RT	3/4"	42.84'	
26+36.71, 30.65 RT	3/4"	44.10'	
26+52.78, 30.47 LT	3/4"	17.02'	
26+64.49, 30.81 LT	3/4"	17.36'	
26+89.83, 29.35 RT	3/4"	42.79'	
27+98.74, 30.54 LT	3/4"	13.70'	
28+07.03, 29.64 RT	3/4"	45.70'	
28+35.02, 30.35 LT	3/4"	14.34'	
28+43.98, 29.15 RT	3/4"	45.13'	
28+77.85, 29.05 RT	3/4"	44.97'	
29+43.23, 31.06 LT	3/4"	15.27'	
29+58.37, 28.00 RT	3/4"	43.77'	
29+77.30, 31.18 LT	3/4"	15.45'	

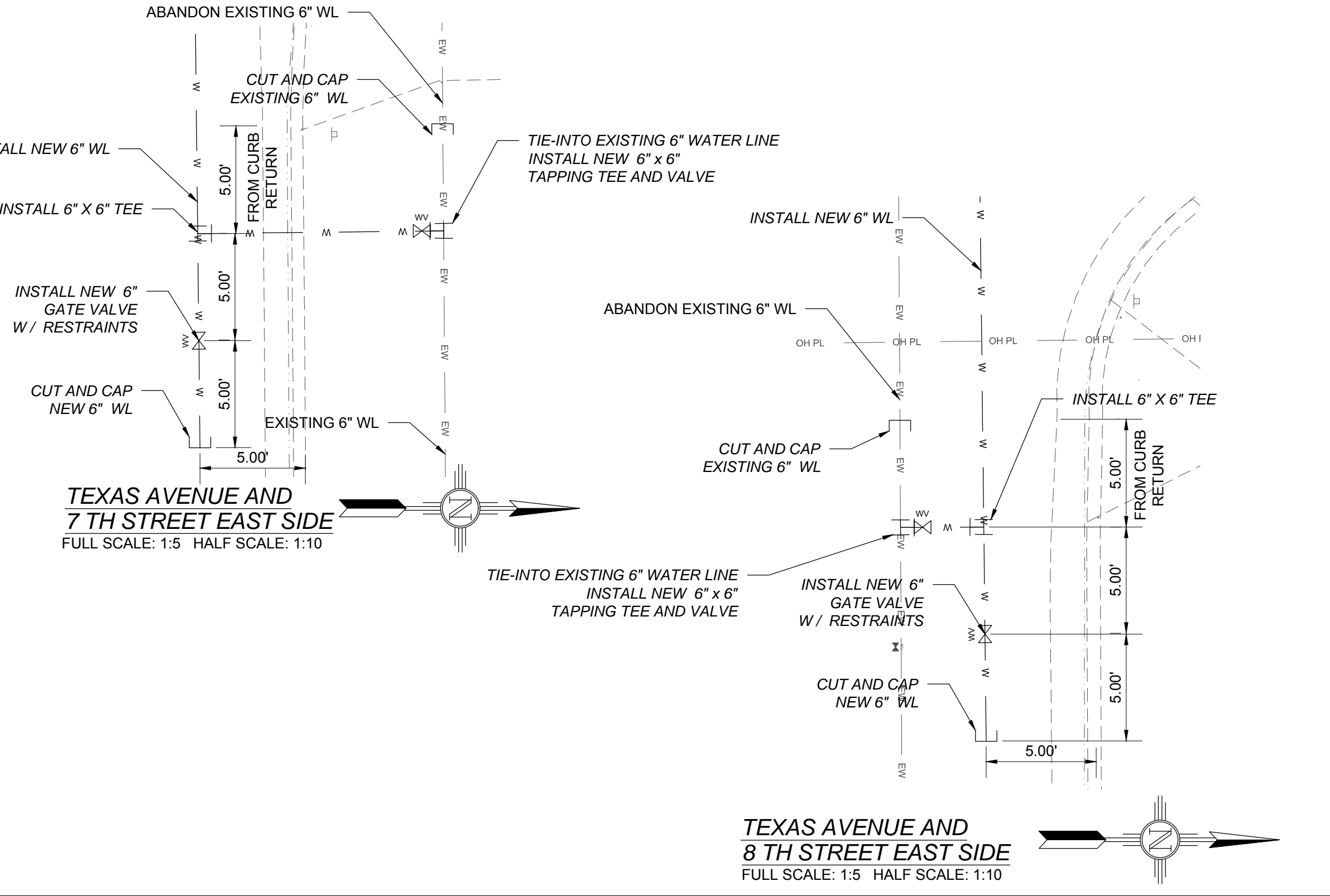
TEXAS AVE. 6" FIRE HYDRANT ASSEMBLY		
STA. AND OFFSET	LENGTH	
24+04.30, 28.74 LT	15.22'	
27+57.12, 28.83 LT	15.40'	

TEXAS AVENUE
FULL SCALE: 1:30 HALF SCALE: 1:60

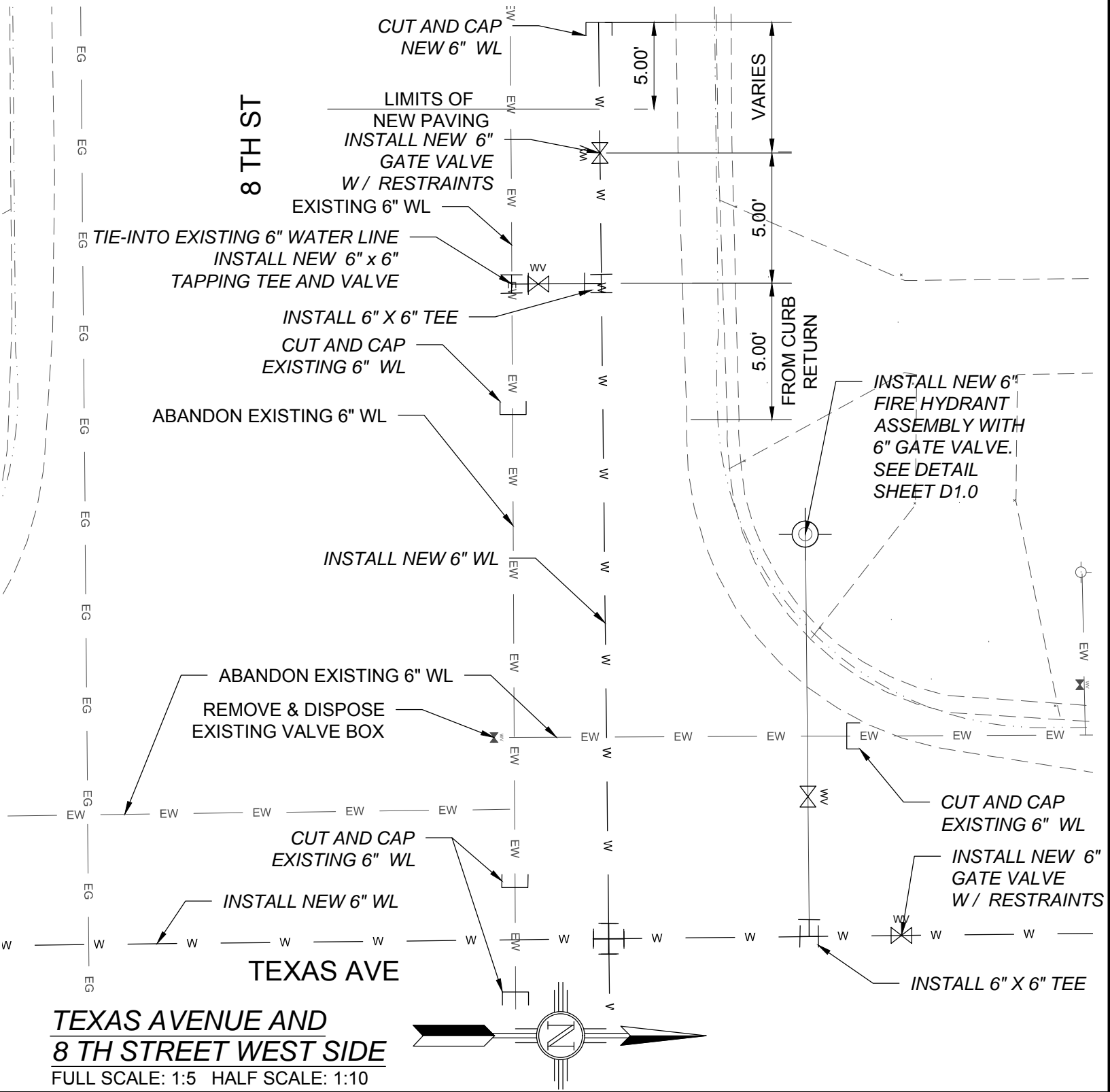
EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE



TEXAS AVENUE AND 7 TH STREET
FULL SCALE: 1:5 HALF SCALE: 1:10



TEXAS AVENUE AND 8 TH STREET EAST SIDE
FULL SCALE: 1:5 HALF SCALE: 1:10



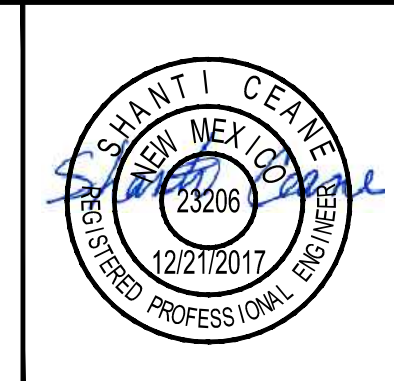
TEXAS AVENUE AND 8 TH STREET WEST SIDE
FULL SCALE: 1:5 HALF SCALE: 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

New Mexico One Call, Inc. Call 2 days before you dig!
NMOC
 Professional Resources for Damage Prevention
 Dial 811 or 1-800-321-2537



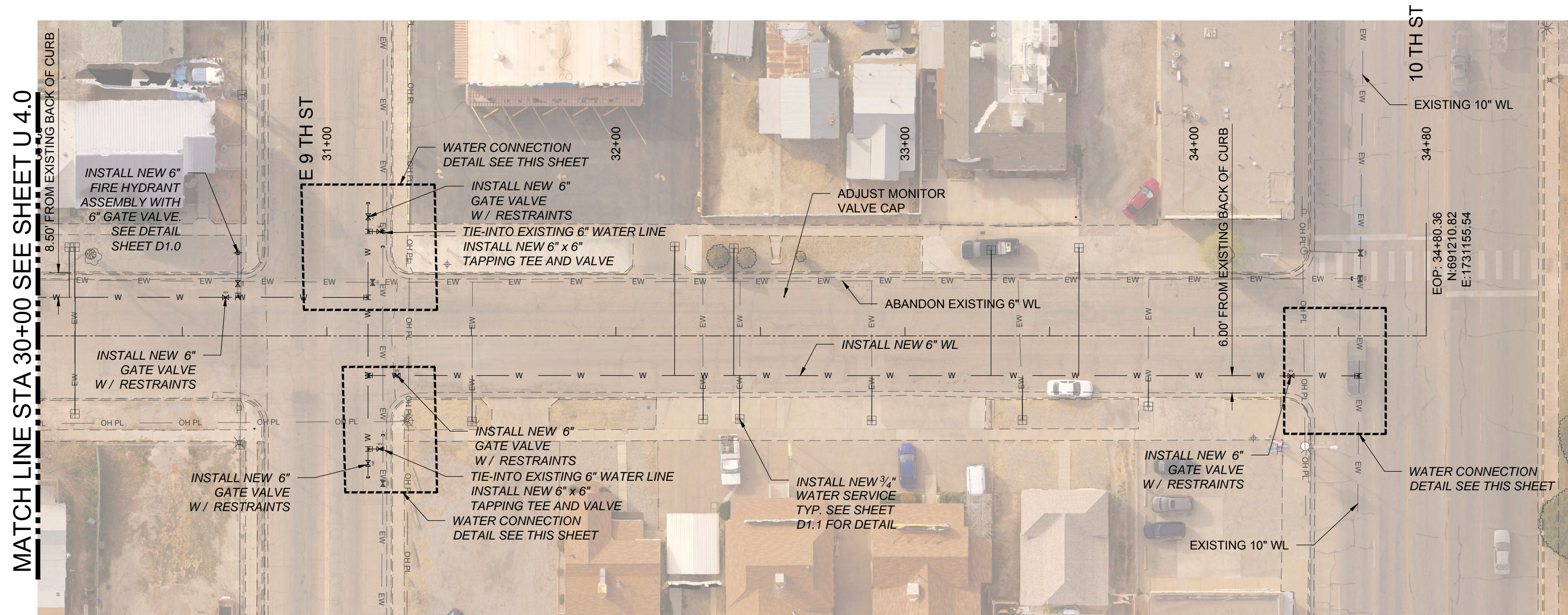
Street Maintenance Program FY 2017
TEXAS AVENUE WATER LINE
REPLACEMENT PLAN STATION 23+00 TO 30+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Ocean Engineers, Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	TM
Designed By:	TM
Checked By:	SC
Approved By:	SC
Scale:	Horiz.: VARIES
Vert.:	n/a

Sheet No.:	U4.0
Sheet	64 of 103
EN1701	

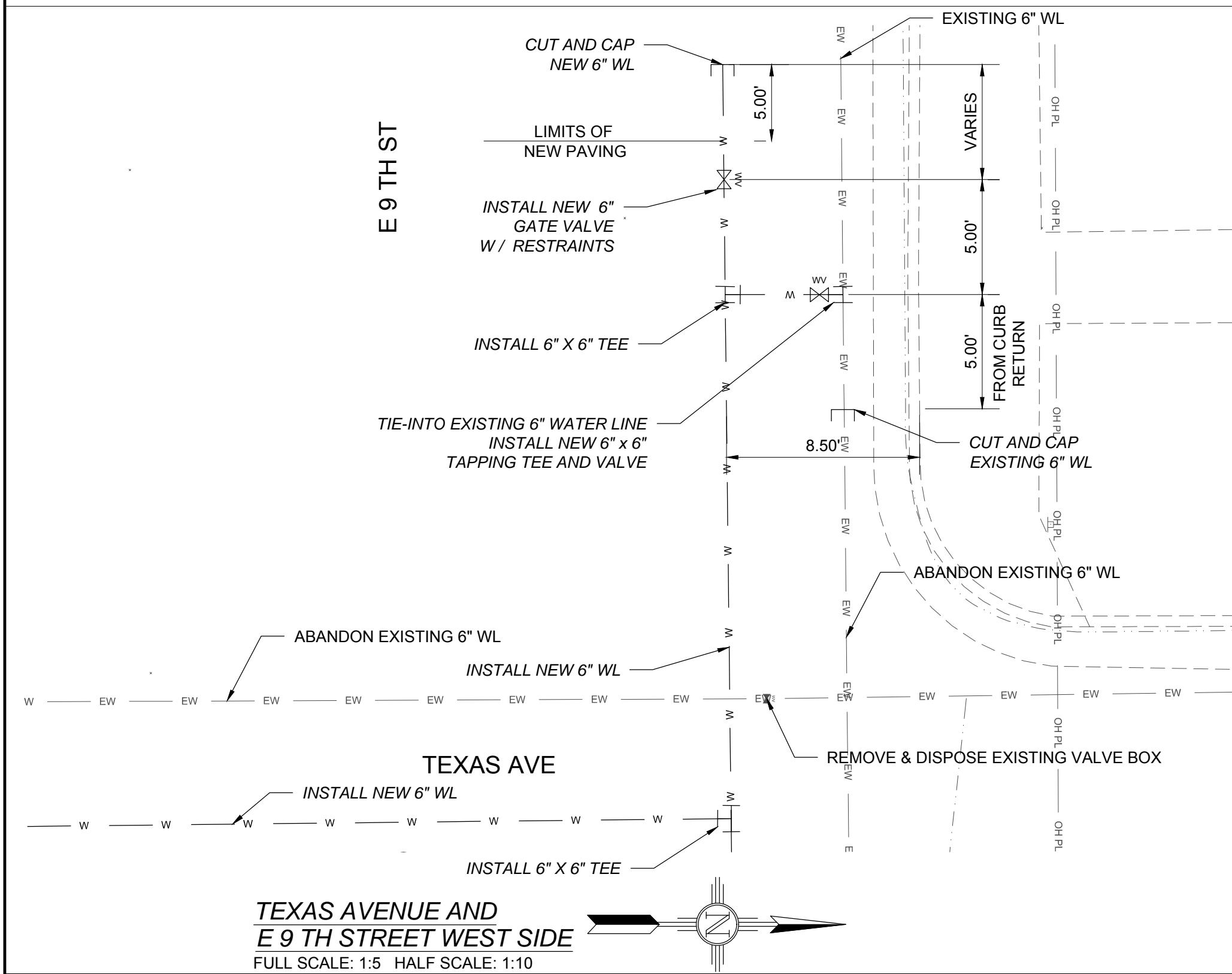


TEXAS AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
30+10.93, 30.65 LT	3/4"	14.98'
30+12.87, 26.93 RT	3/4"	42.60'
30+12.89, 30.70 LT	3/4"	15.03'
31+50.25, 29.58 RT	3/4"	15.88'
32+20.37, 30.93 LT	3/4"	44.65'
32+30.17, 28.89 RT	3/4"	15.17'
32+40.83, 30.31 LT	3/4"	44.03'
32+42.79, 28.72 RT	3/4"	15.00'
32+88.53, 29.23 RT	3/4"	15.50'
33+29.83, 29.66 LT	3/4"	43.41'
33+40.66, 29.10 RT	3/4"	15.35'
33+60.19, 30.47 LT	3/4"	44.23'
33+84.17, 24.36 RT	3/4"	10.60'

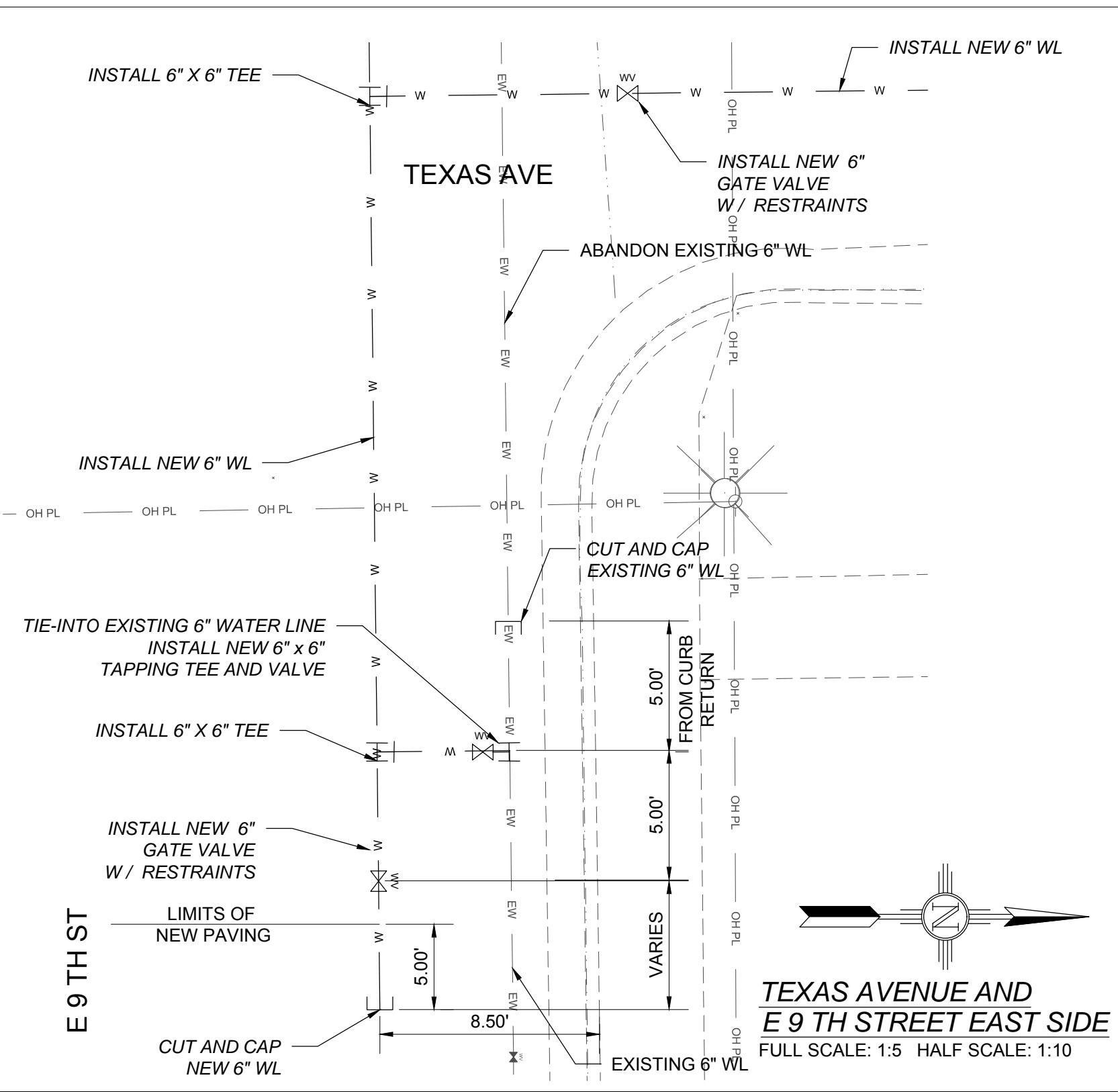
TEXAS AVE. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
30+69.23, 28.74 LT	15.41'

EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE

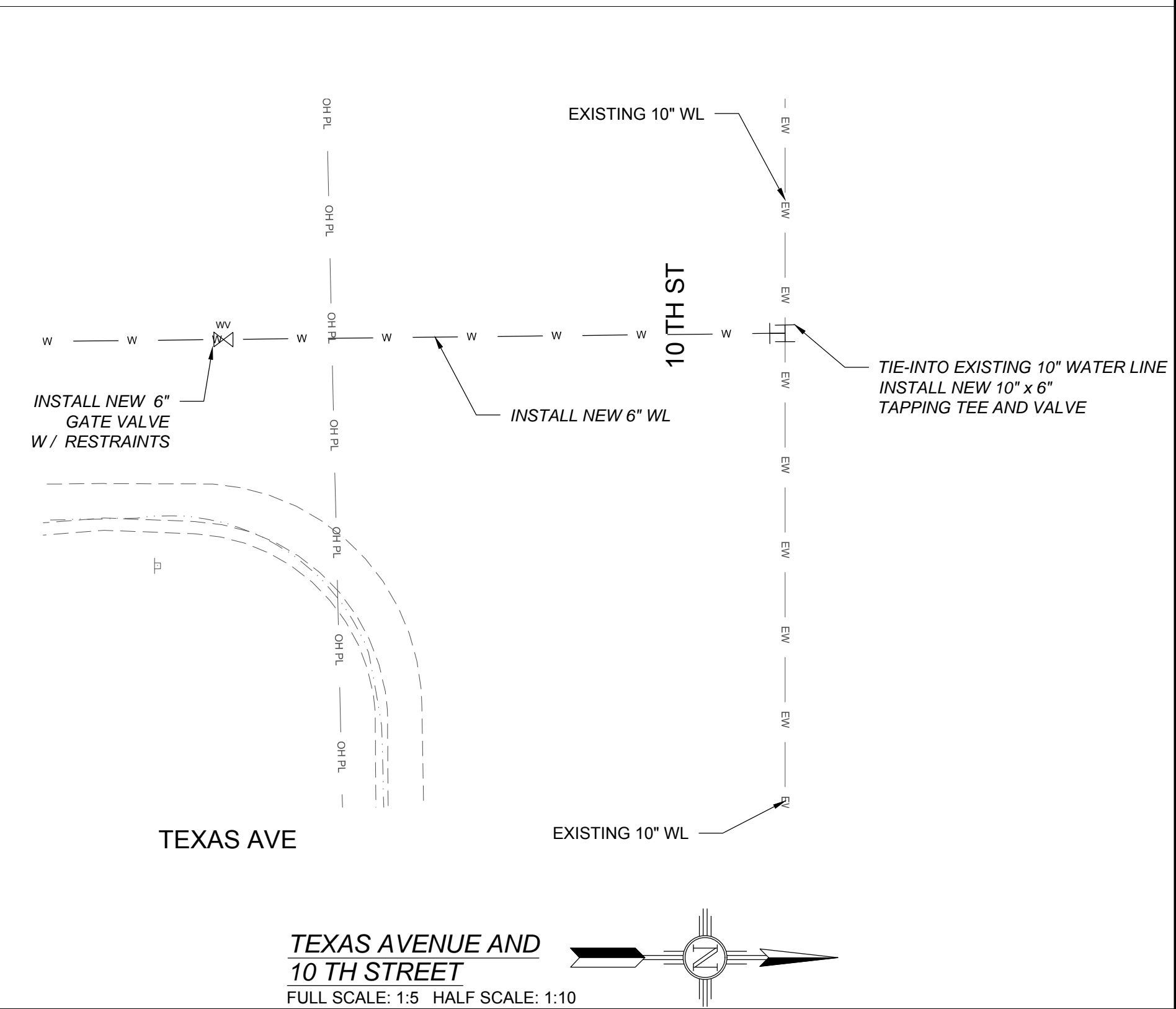
TEXAS AVENUE
 FULL SCALE: 1:30 HALF SCALE: 1:60



TEXAS AVENUE AND
 E 9 TH STREET WEST SIDE
 FULL SCALE: 1:5 HALF SCALE: 1:10



TEXAS AVENUE AND
 E 9 TH STREET EAST SIDE
 FULL SCALE: 1:5 HALF SCALE: 1:10



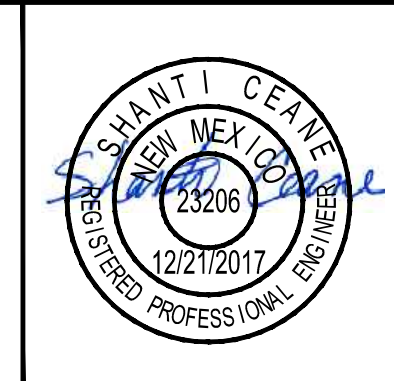
TEXAS AVENUE AND
 10 TH STREET
 FULL SCALE: 1:5 HALF SCALE: 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	SC
0	09-08-17	ISSUED FOR CONSTRUCTION	SC

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 Professional Resources for Damage Prevention
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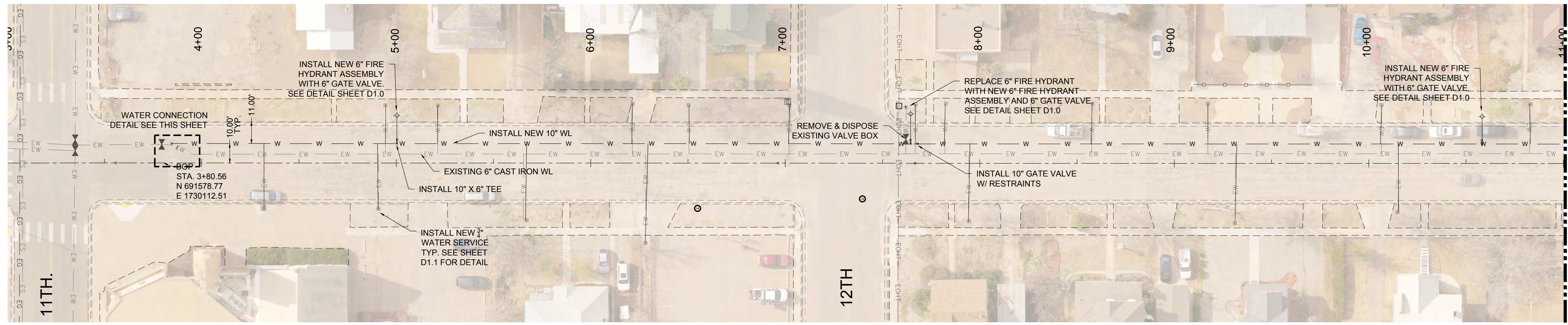
Street Maintenance Program FY 2017
TEXAS AVENUE WATER LINE
REPLACEMENT PLAN STATION 30+00 TO 34+80.36
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



OEI Ocean Engineers Inc.
 3400 HIGHWAY 180 EAST SUITE A
 SILVER CITY, NEW MEXICO 88061
 (575) 538-5395 (OFFICE)
 (575) 538-5410 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	TM
Designed By:	TM
Checked By:	SC
Approved By:	SC
Scale: Horiz.:	VARIES
Vert.:	n/a

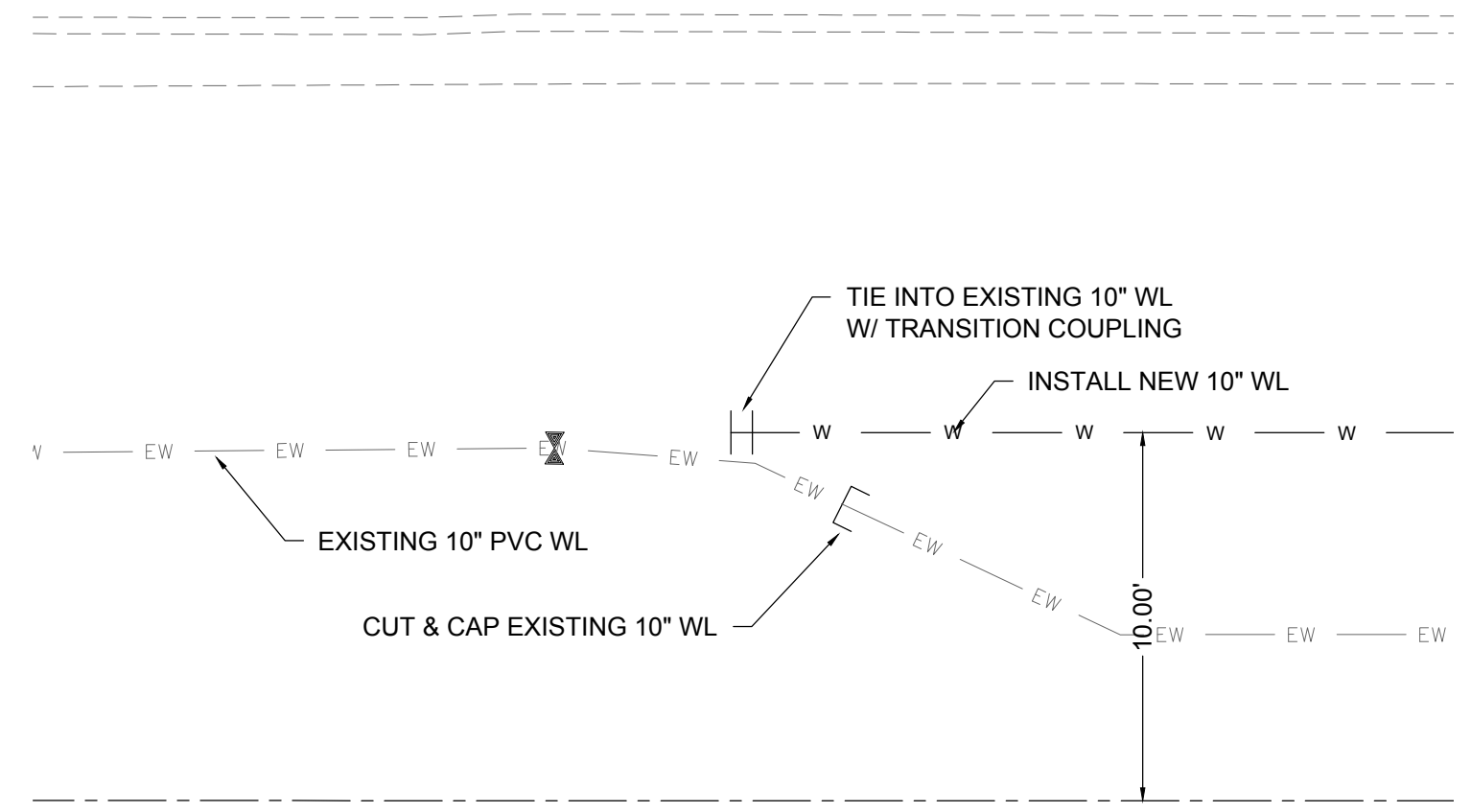
Sheet No.:	U5.0
Sheet	65 of 103
EN1701	



MATCHLINE-STA: 11+00 SEE SHEET U15.0

MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

EXISTING UTILITY LEGEND		
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE	
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE	
— ES — ES —	EXISTING SEWER	
— EW — EW —	EXISTING WATER	
— EG — EG —	EXISTING UNDERGROUND GAS	
— ET — ET —	EXISTING UNDERGROUND TELEPHONE	
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE	



MICHIGAN

MICHIGAN / 11TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

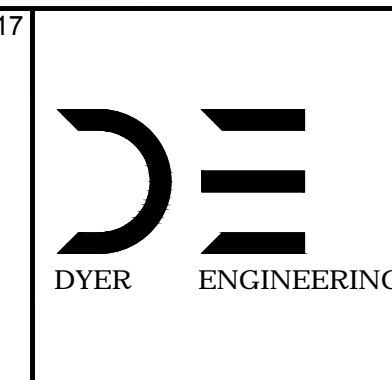
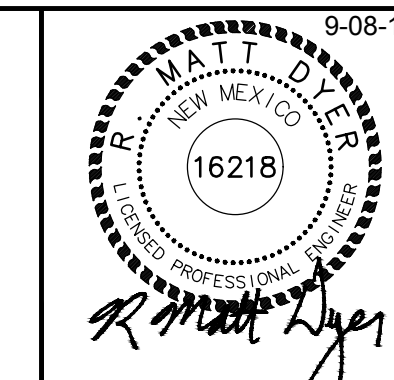
MICHIGAN AVE. WATER SERVICES			
STA. AND OFFSET	SIZE	LENGTH	
4+32.04, 23.41 RT	1"	33.41'	
4+90.76, 23.71 RT	3/4"	33.71'	
4+94.35, 29.70 LT	3/4"	19.7'	
5+21.40, 29.52 LT	3/4"	19.52'	
5+66.70, 29.46 RT	3/4"	39.46'	
6+21.48, 30.50 LT	3/4"	20.5'	
6+28.03, 41.12 RT	1"	51.12'	
6+50.54, 29.46 LT	3/4"	19.46'	
7+01.98, 29.93 LT	3/4"	19.93'	
7+66.80, 29.93 LT	3/4"	19.93'	
7+82.60, 30.13 LT	3/4"	20.13'	
7+94.29, 30.04 RT	3/4"	40.04'	
8+57.54, 30.59 LT	3/4"	20.59'	
9+17.07, 30.28 LT	3/4"	20.28'	
9+31.22, 30.29 RT	3/4"	40.29'	
10+06.49, 29.83 LT	3/4"	19.83'	
10+14.81, 24.97 RT	3/4"	34.97'	
10+82.97, 30.29 LT	3/4"	20.29'	

MICHIGAN AVE. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
5+00.44, 24.44 LT	14.44'
7+62.31, 29.64 LT	19.64'
10+58.27, 24.10 LT	14.10'

REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



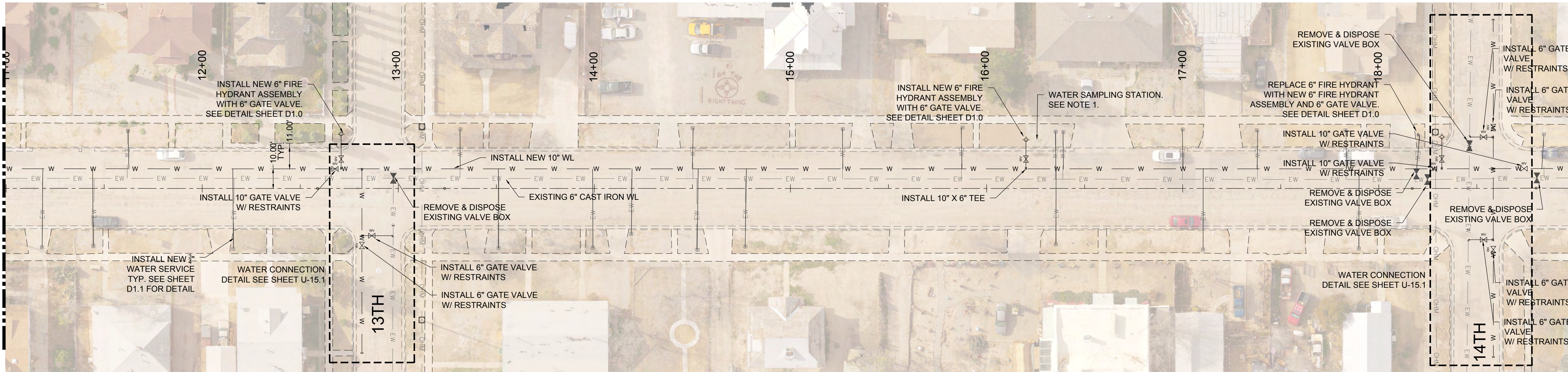
Street Maintenance Program FY 2017
MICHIGAN AVENUE WATER LINE REPLACEMENT
PLAN STATION 3+85 TO 11+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:
U14.0
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 EN1701

MATCH LINE-STA: 11+00 SEE SHEET U14.0



- NOTES:
- INSTALL WATER SAMPLING STATION AT 1311 MICHIGAN AVENUE. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER.

MATCH LINE-STA: 19+00 SEE SHEET U16.0

MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

MICHIGAN AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
11+18.38, 29.98 RT	3/4"	39.98'
11+44.48, 29.32 RT	3/4"	39.32'
11+61.91, 29.17 LT	3/4"	19.17'
12+15.93, 30.61 RT	3/4"	40.61'
13+31.45, 30.05 LT	3/4"	20.05'
13+51.25, 30.05 RT	3/4"	40.05'
13+99.24, 30.25 RT	3/4"	40.25'
14+18.75, 22.85 RT	3/4"	32.85'
14+50.34, 30.93 LT	3/4"	20.93'
14+52.35, 30.88 RT	3/4"	40.88'
14+76.81, 29.26 RT	3/4"	39.26'
15+26.57, 30.63 LT	3/4"	20.63'
15+87.37, 30.76 LT	3/4"	20.76'
16+35.02, 29.12 LT	3/4"	19.12'
16+35.42, 28.37 RT	1"	38.37'
16+38.95, 28.84 LT	3/4"	18.84'
16+99.88, 29.91 LT	3/4"	19.91'
17+10.25, 31.16 RT	3/4"	41.16'
17+38.07, 29.58 LT	3/4"	19.58'
17+83.30, 30.12 LT	3/4"	20.12'
17+89.75, 30.19 RT	3/4"	40.19'
18+83.90, 27.35 LT	3/4"	17.35'

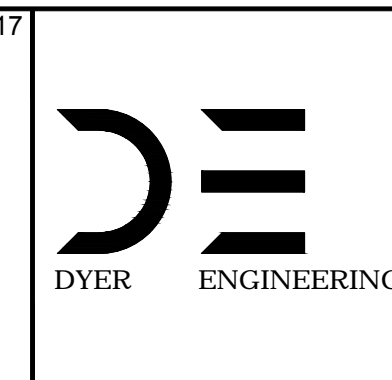
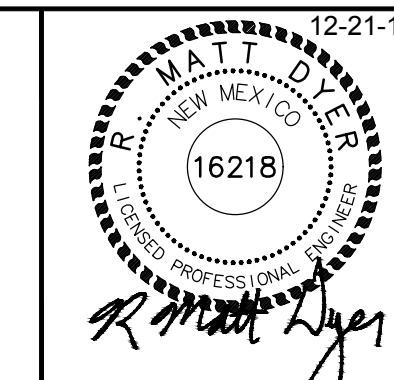
MICHIGAN AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
12+70.88, 27.72 LT	17.72'
16+20.02, 24.79 LT	14.79'
18+20.80, 27.00 LT	17.00'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

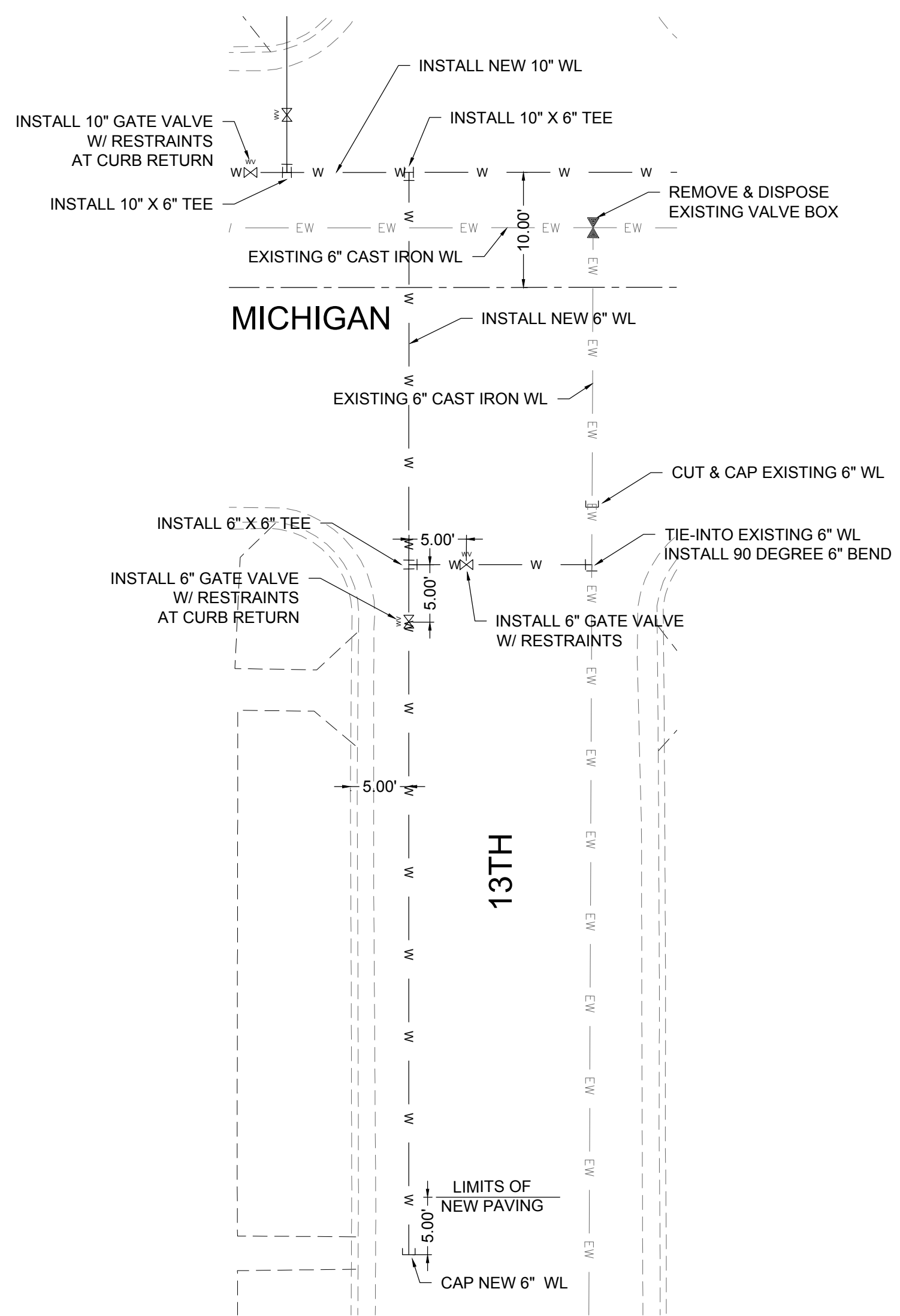


Street Maintenance Program FY 2017
MICHIGAN AVENUE WATER LINE REPLACEMENT
PLAN STATION 11+00 TO 19+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD
 Scale: Horiz.: Vert.: n/a

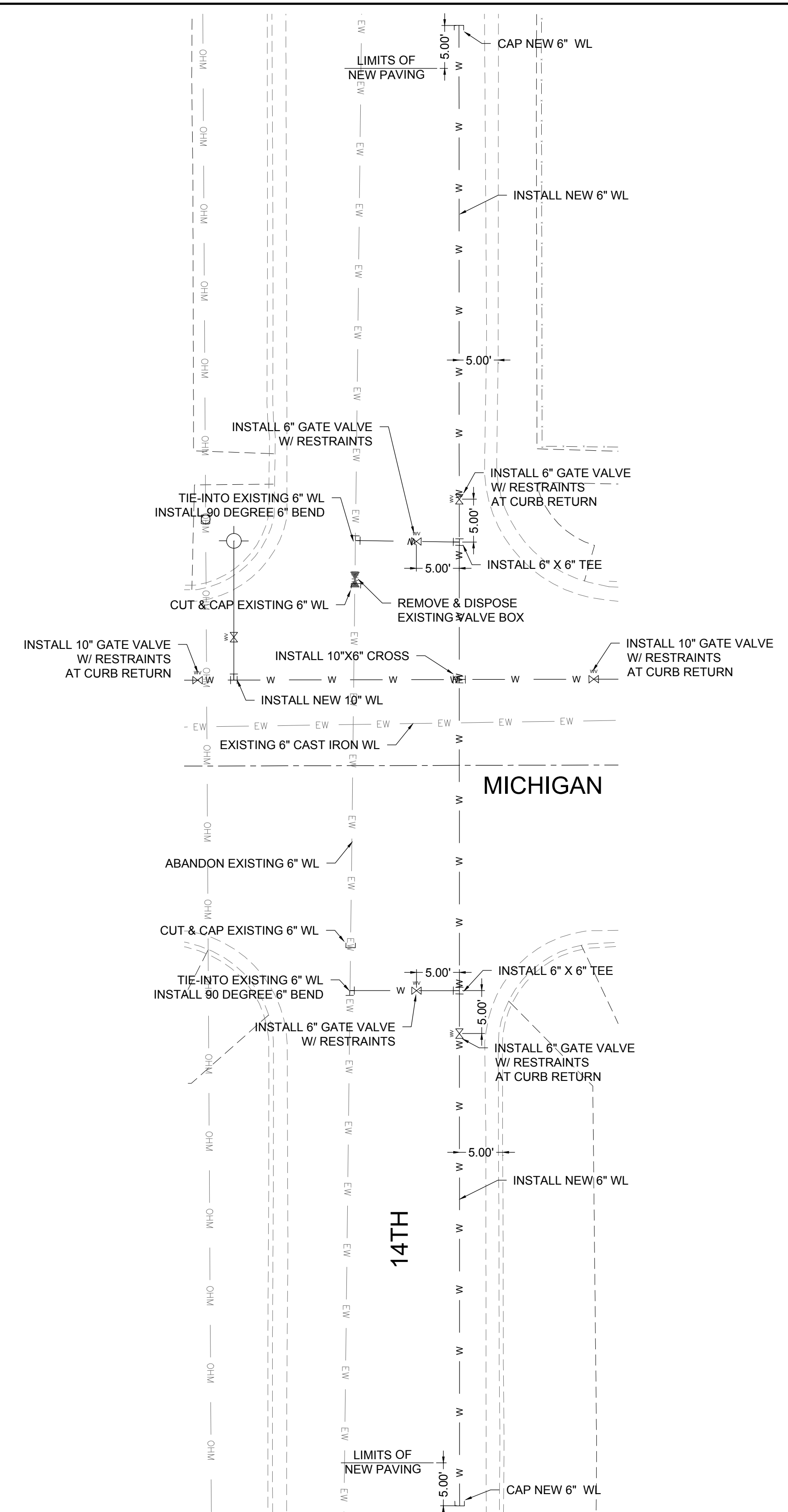
Sheet No.: U15.0
 Sheet 75 of 103
 EN1701



MICHIGAN / 13TH TIE-IN DETAIL
 FULL SCALE: 1:10 HALF SCALE 1:20

EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

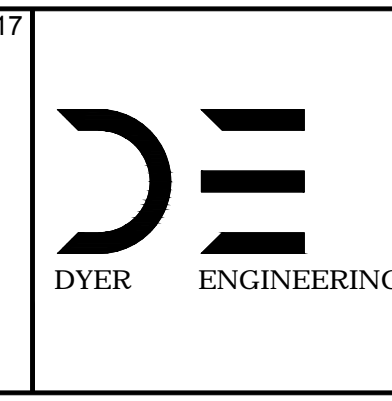
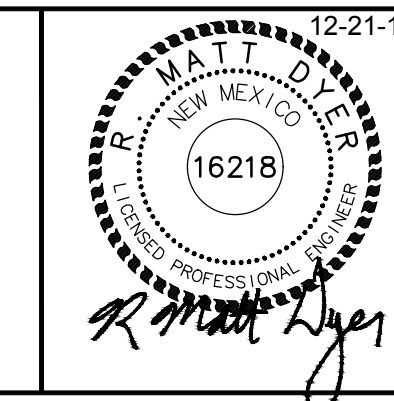


MICHIGAN / 14TH TIE-IN DETAIL
 FULL SCALE: 1:10 HALF SCALE 1:20

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE WATER LINE
TIE IN DETAILS
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

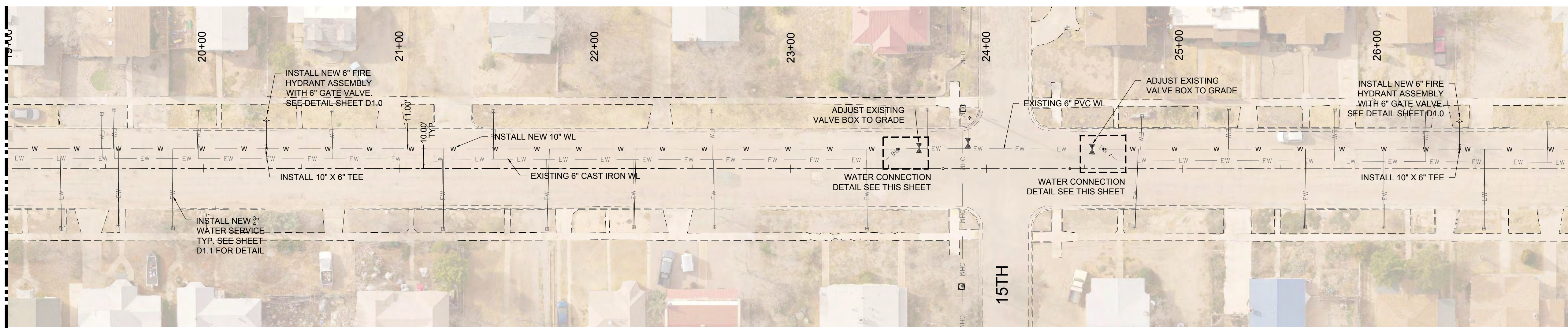


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:
U15.1
 Sheet 76 of 103
 EN1701

MATCH LINE-STA: 19+00 SEE SHEET U15.0

MATCH LINE-STA: 27+00 SEE SHEET U17.0



MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

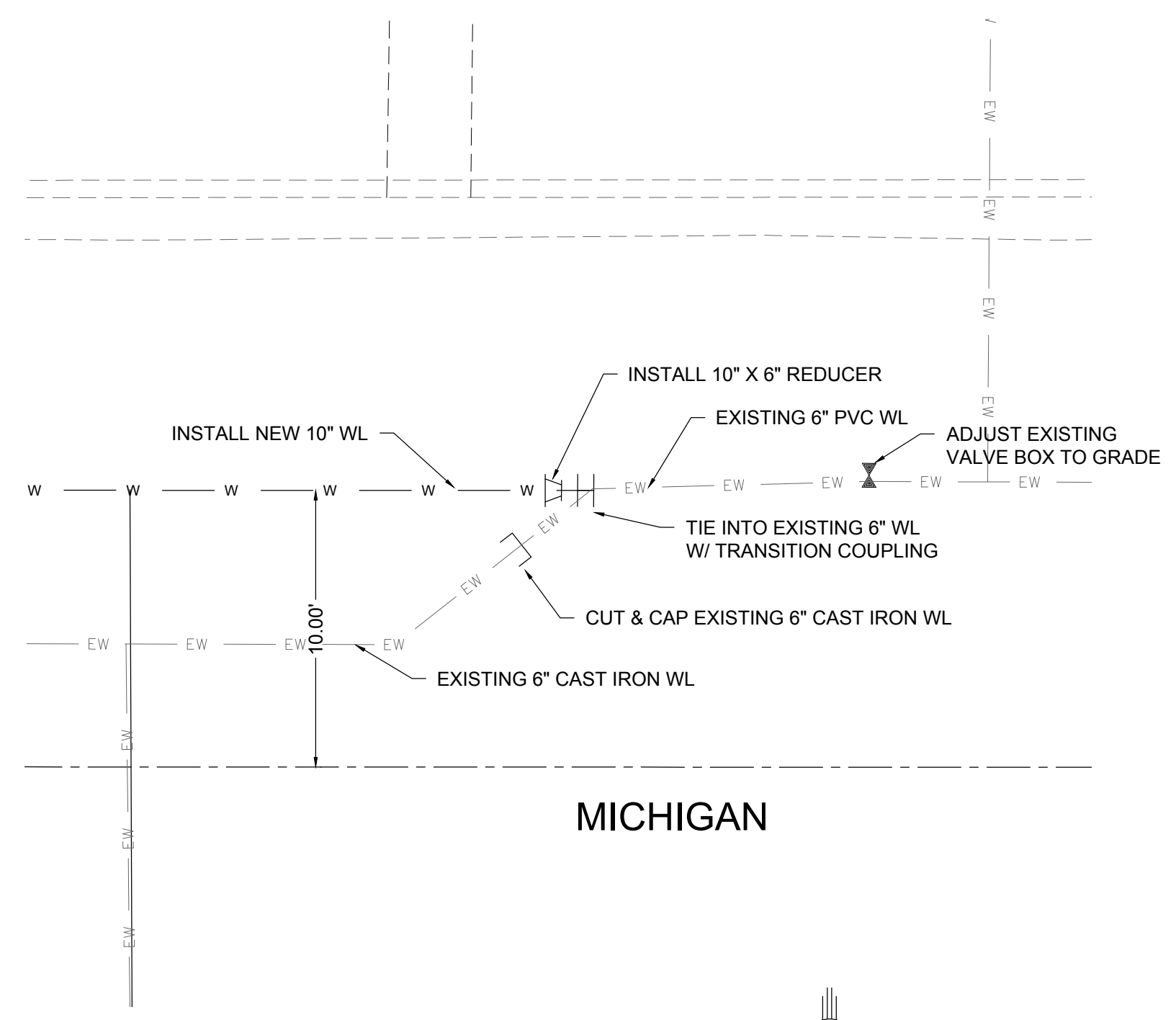
EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

MICHIGAN AVE. WATER SERVICES

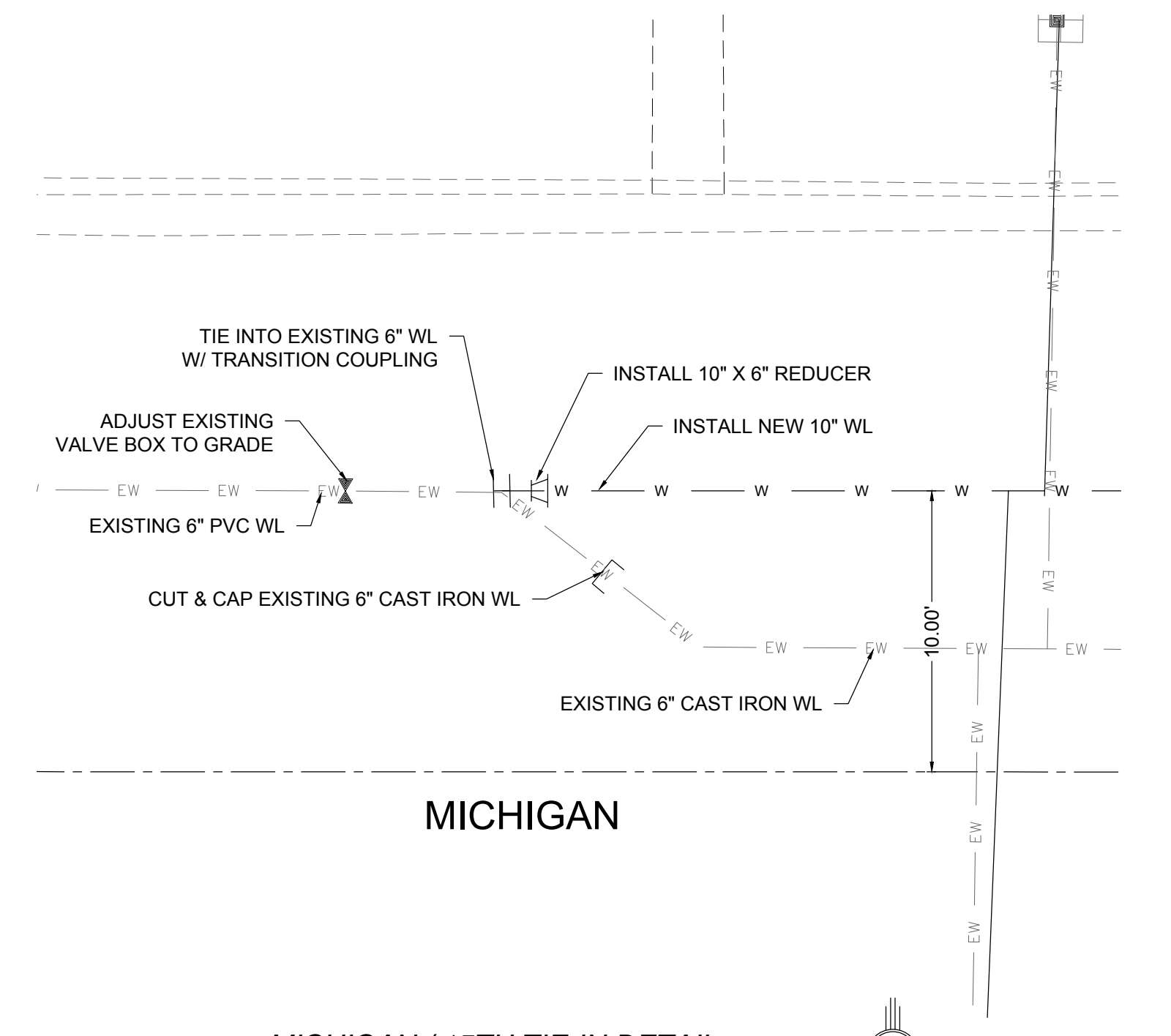
STA. AND OFFSET	SIZE	LENGTH
19+27.38, 31.01 RT	3/4"	41.01'
19+48.08, 27.80 LT	3/4"	17.80'
19+54.07, 30.11 LT	3/4"	20.11'
19+56.85, 29.08 RT	3/4"	39.08'
19+84.29, 30.34 RT	3/4"	40.34'
19+97.06, 29.99 LT	3/4"	19.99'
20+65.44, 28.97 LT	3/4"	18.97'
21+22.27, 30.61 RT	3/4"	40.61'
21+47.92, 29.45 LT	3/4"	19.45'
21+75.71, 30.98 RT	3/4"	40.98'
22+19.89, 30.06 RT	3/4"	40.06'
22+59.49, 29.72 LT	3/4"	19.72'
22+60.83, 30.05 RT	3/4"	40.05'
23+39.15, 30.60 RT	3/4"	40.60'
24+75.93, 29.82 RT	3/4"	39.82'
24+79.21, 26.80 LT	3/4"	16.80'
25+23.65, 30.34 LT	3/4"	20.34'
25+62.53, 29.87 RT	3/4"	39.87'
25+77.94, 29.71 LT	3/4"	19.71'
26+03.00, 29.62 RT	3/4"	39.62'
26+24.48, 28.70 LT	3/4"	18.70'
26+54.07, 30.33 RT	3/4"	40.33'
26+86.57, 23.09 LT	3/4"	13.09'

MICHIGAN AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
20+32.22, 24.37 LT	14.37'
26+41.66, 24.04 LT	14.04'



MICHIGAN / 15TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



MICHIGAN / 15TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

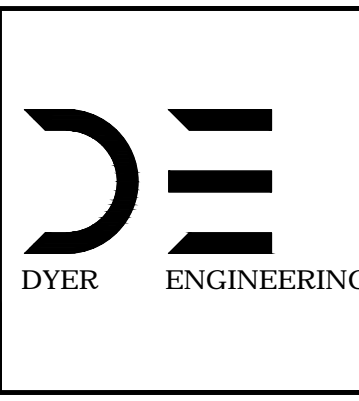
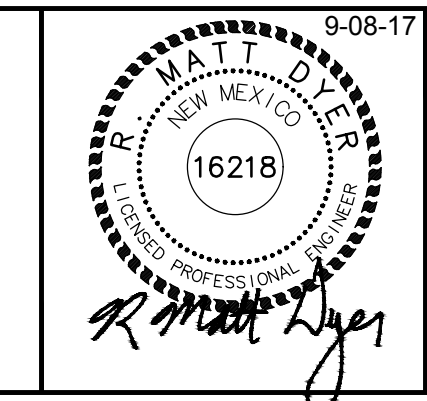
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0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

MICHIGAN AVENUE WATER LINE REPLACEMENT PLAN STATION 19+00 TO 27+00

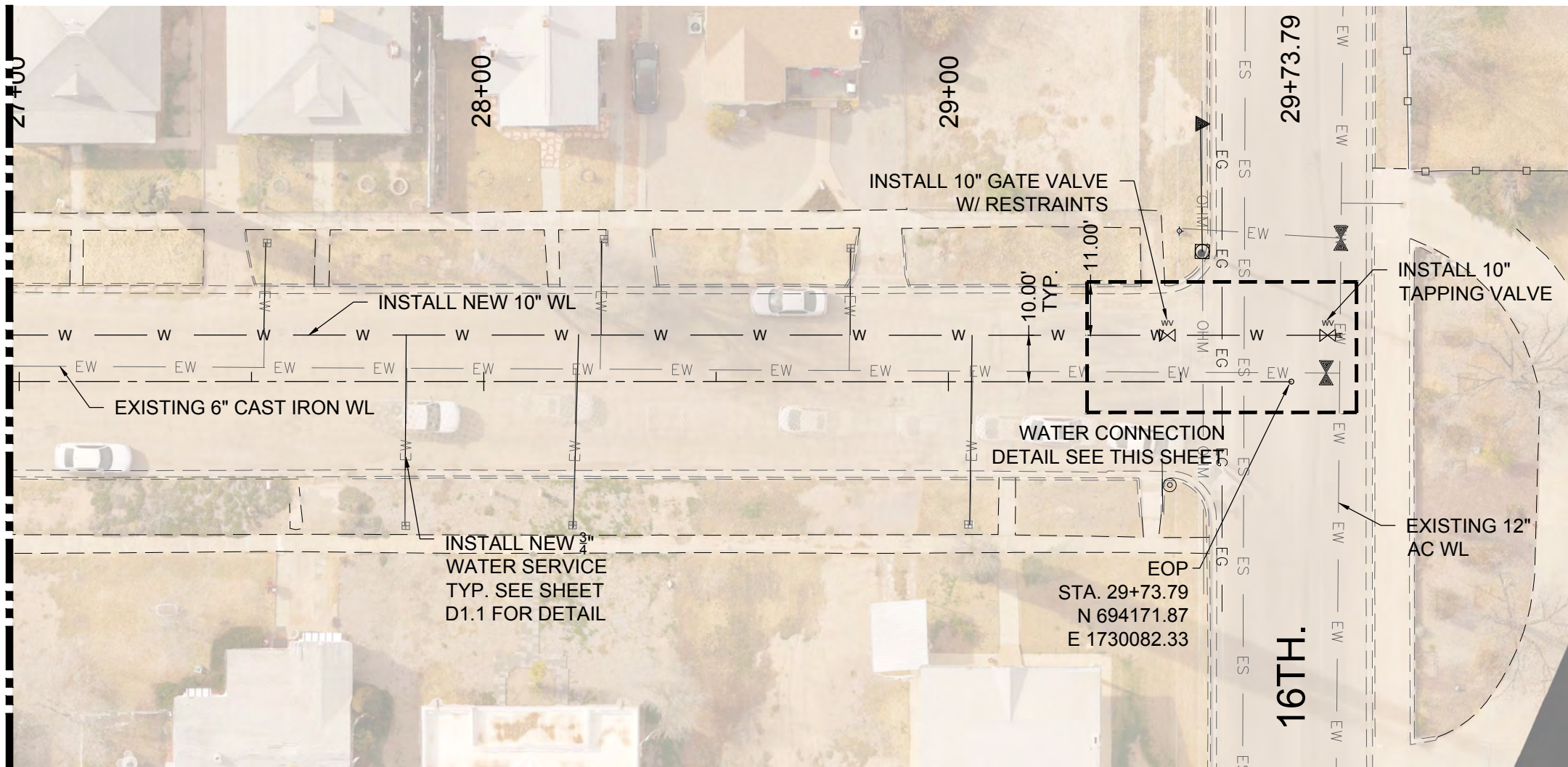
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



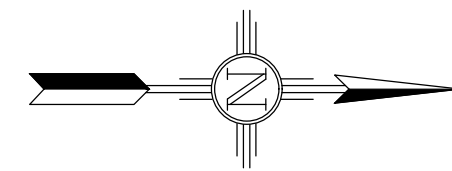
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Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:	U16.0
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EN1701	

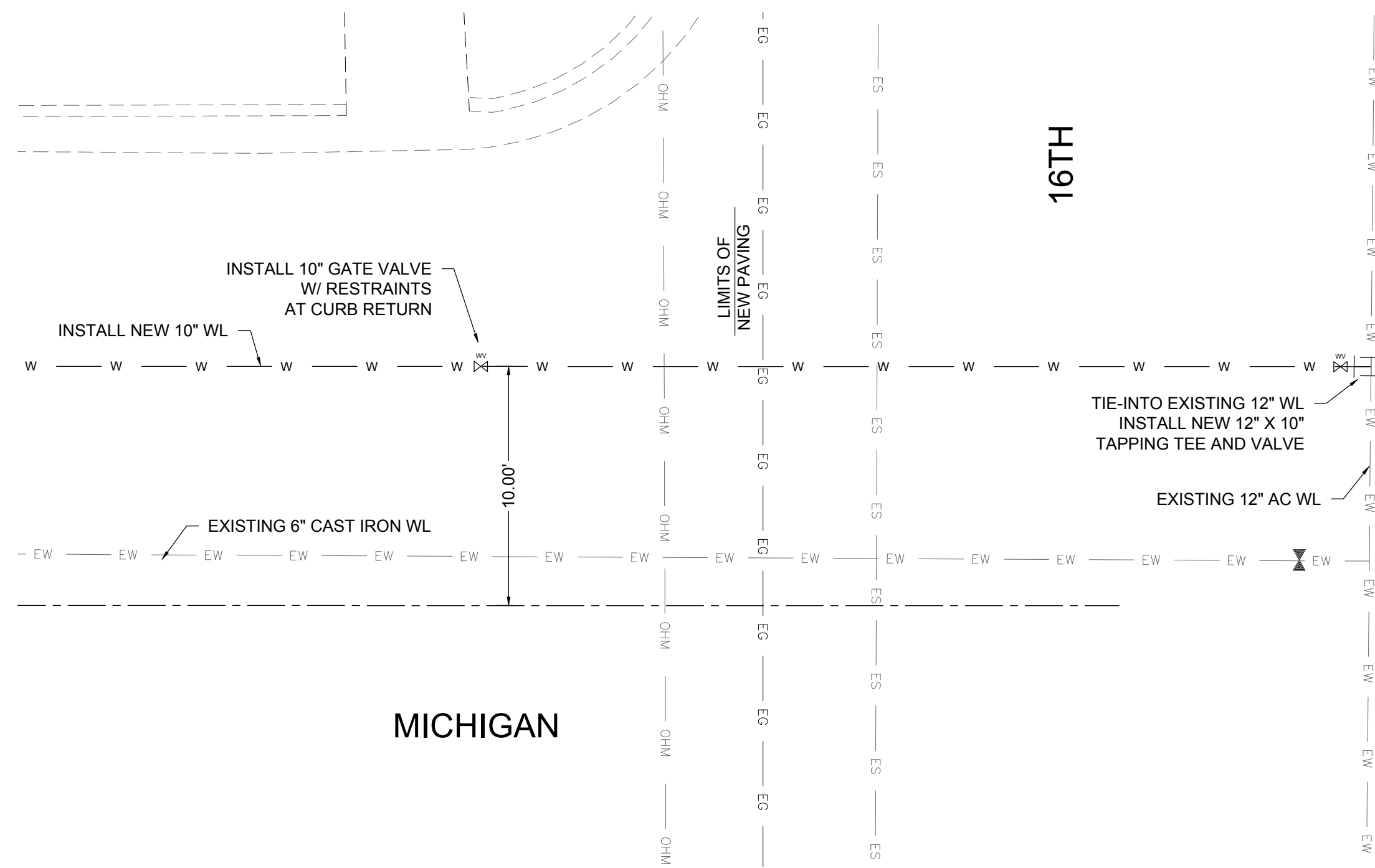
MATCH LINE-STA: 27+00 SEE SHEET U16.0



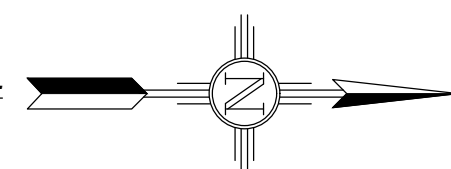
MICHIGAN AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



MICHIGAN / 16TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

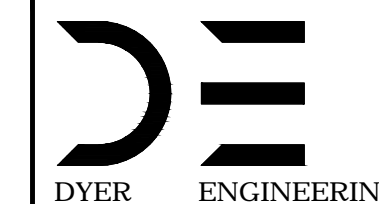
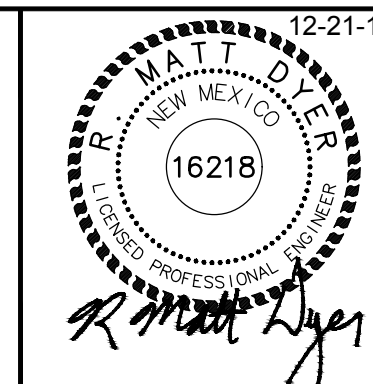


MICHIGAN AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
27+53.03, 29.96 LT	3/4"	19.96'
27+82.89, 30.75 RT	3/4"	40.75'
28+19.41, 31.18 RT	3/4"	41.18'
28+25.48, 30.30 LT	3/4"	20.30'
28+79.07, 28.86 LT	3/4"	18.86'
29+04.60, 30.72 RT	3/4"	40.72'

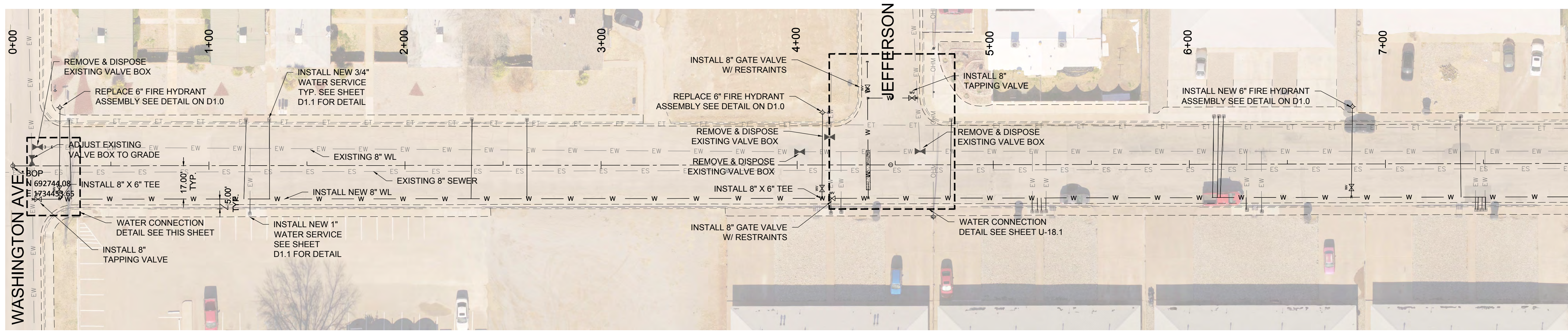
REV. No.	DATE	DESCRIPTION	APPROVED
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0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
MICHIGAN AVENUE WATER LINE REPLACEMENT
PLAN STATION 27+00 TO 29+50
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



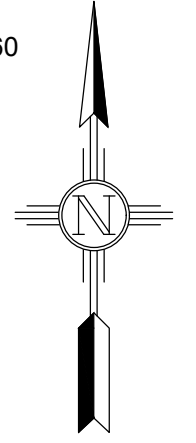
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Drawn By: AD Designed By: AD	
Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	Sheet 78 of 103
	EN1701



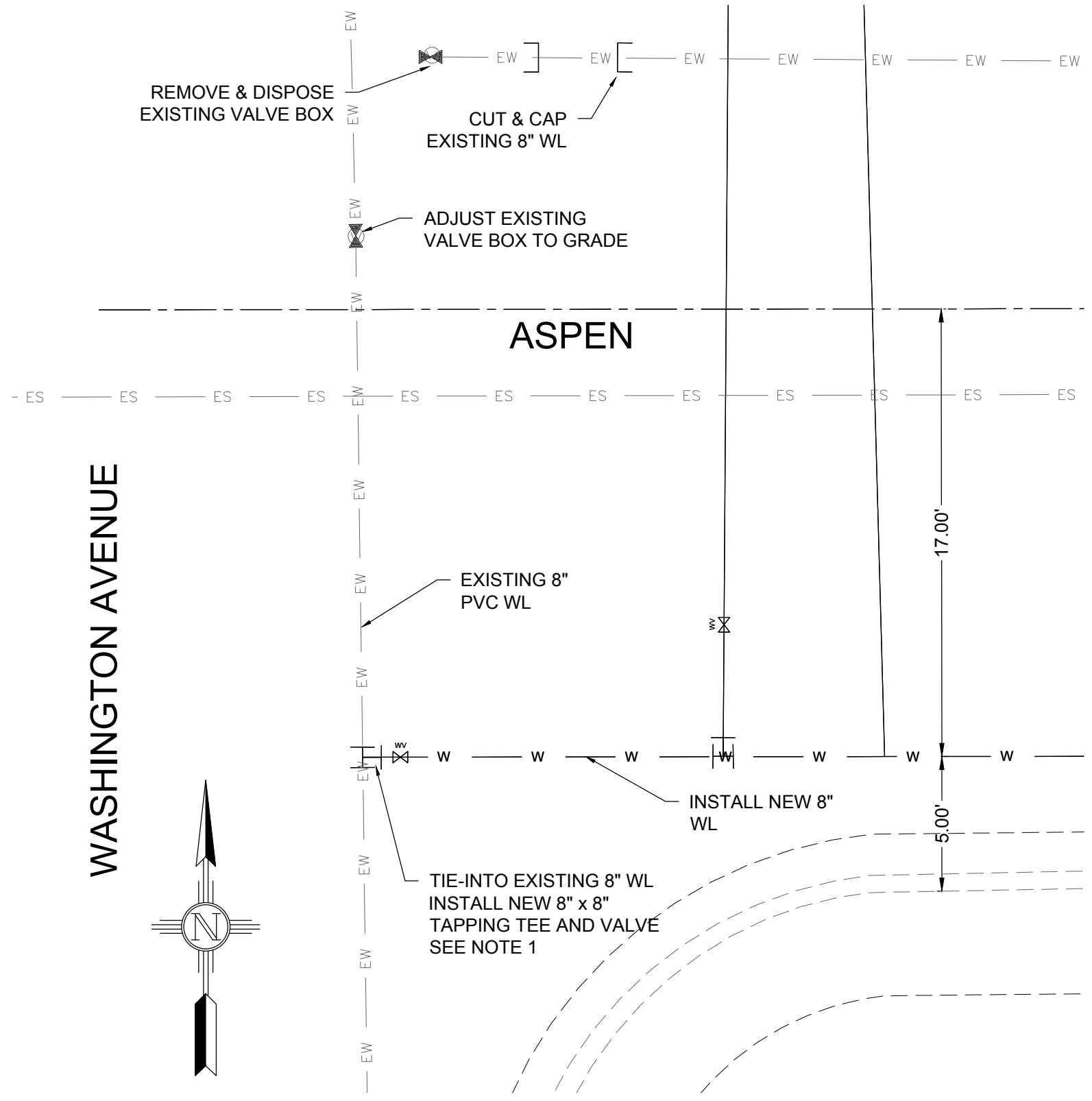
MATCH LINE-STA: 8+00 SEE SHEET U19.0

NOTES:
1. THE TAPPING VALVE IS THE ONLY VALVE TO BE INSTALLED AT THIS LOCATION.

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



ASPEN / WASHINGTON TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

ASPEN DR. WATER SERVICES			
STA. AND OFFSET	SIZE	LENGTH	
0+28.64, 23.23 LT	3/4"	40.23'	
1+18.88, 23.45 LT	3/4"	40.45'	
1+21.04, 24.25 RT	1"	7.25'	
1+30.77, 23.44 LT	3/4"	40.44'	
2+34.25, 23.47 LT	3/4"	40.47'	
2+62.32, 23.12 LT	1"	40.12'	
4+17.27, 24.12 RT	3/4"	7.12'	
4+22.35, 23.81 RT	3/4"	6.81'	
4+78.40, 23.16 LT	3/4"	40.16'	
5+19.81, 23.70 RT	3/4"	6.71'	
5+22.49, 23.71 RT	3/4"	6.71'	
5+24.78, 23.71 RT	3/4"	6.72'	
5+26.97, 23.82 RT	3/4"	6.82'	
6+12.49, 24.48 LT	3/4"	41.48'	
6+15.08, 24.47 LT	3/4"	41.47'	
6+17.46, 24.27 LT	3/4"	41.27'	
6+29.29, 23.03 RT	3/4"	6.03'	
6+36.85, 24.14 RT	3/4"	7.14'	
7+38.21, 24.03 LT	1 1/2"	41.02'	
7+45.86, 23.47 RT	3/4"	6.47'	
7+47.55, 23.47 RT	3/4"	6.47'	
7+49.14, 23.37 RT	3/4"	6.38'	
7+50.83, 23.38 RT	3/4"	6.38'	

ASPEN DR. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
0+23.82, 29.80 LT	46.60'
4+15.65, 26.50 LT	43.28'
6+83.09, 28.69 LT	46.37'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

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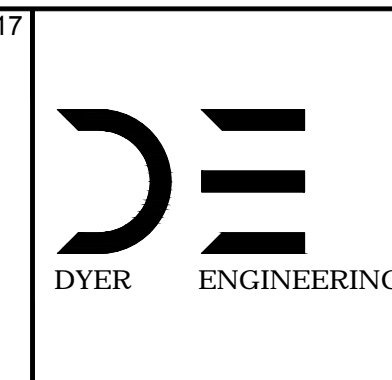
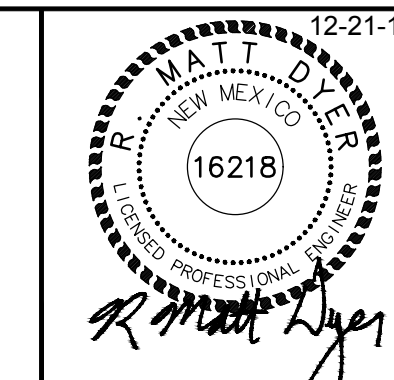
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Street Maintenance Program FY 2017

ASPEN DRIVE WATER LINE REPLACEMENT PLAN STATION 0+18 TO 8+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

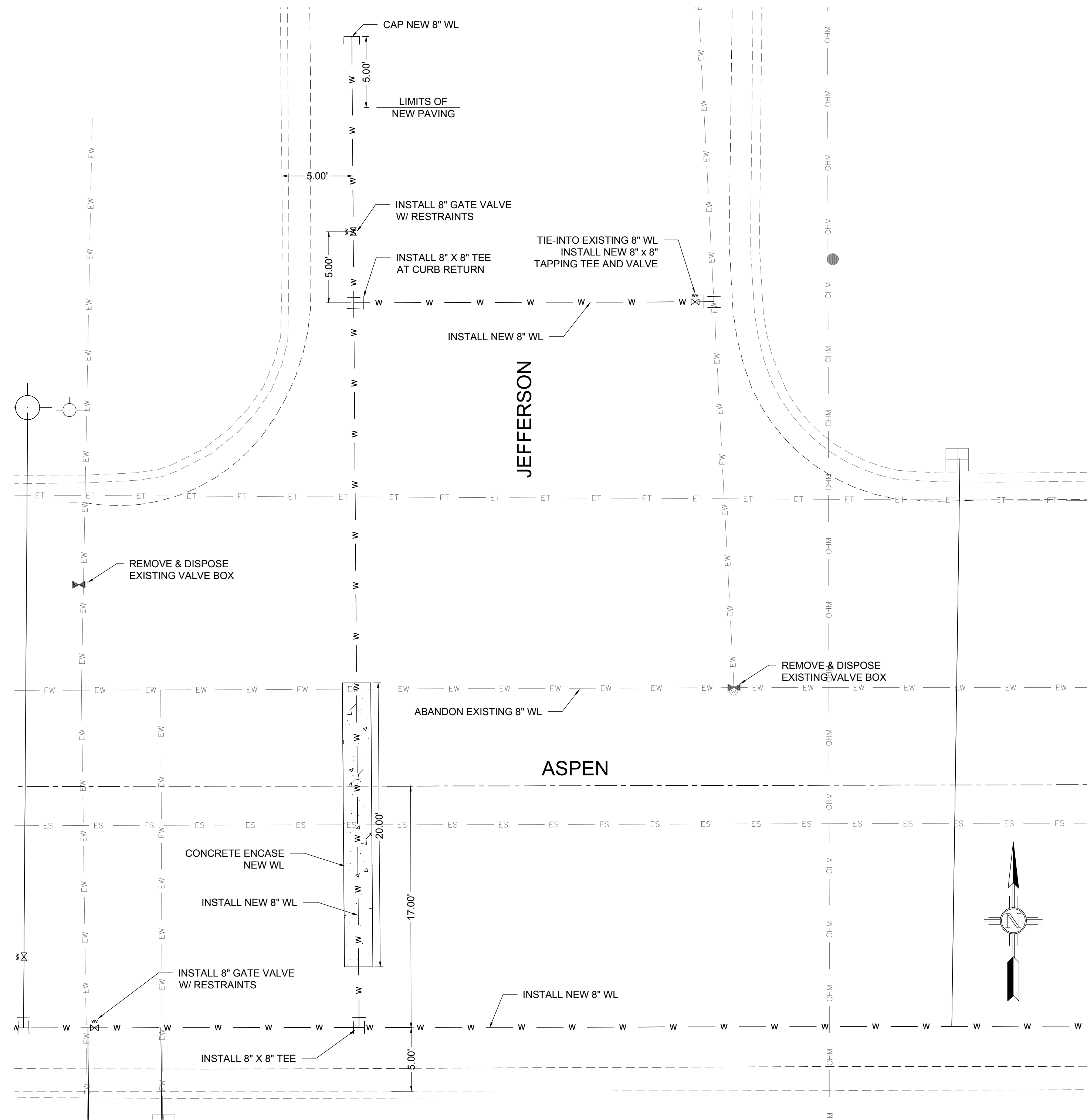


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:
U18.0

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EN1701



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN / JEFFERSON TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

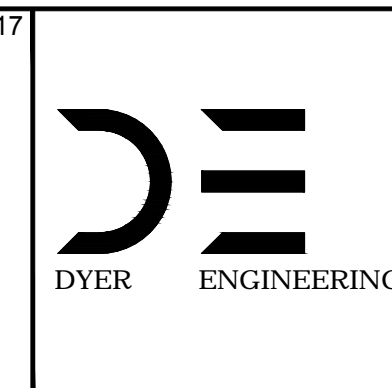
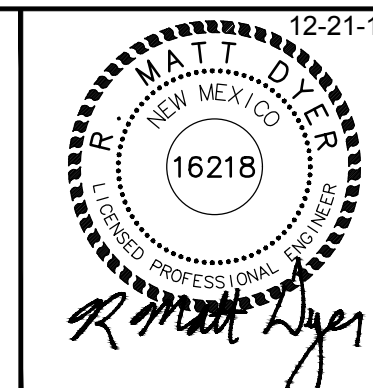

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Street Maintenance Program FY 2017

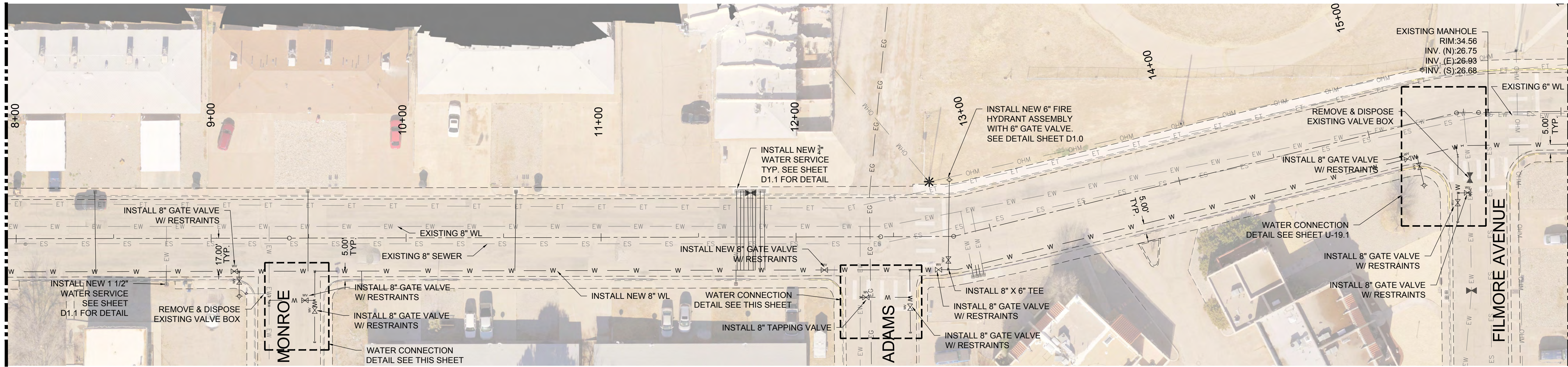
ASPEN / JEFFERSON WATER LINE TIE IN DETAILS

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



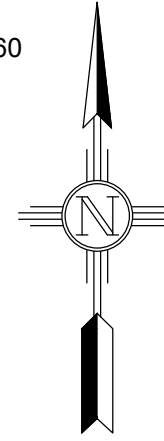
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Drawn By: AD Designed By: AD	
Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	Sheet 80 of 103
	EN1701

MATCH LINE-STA: 8+00 SEE SHEET U18.0



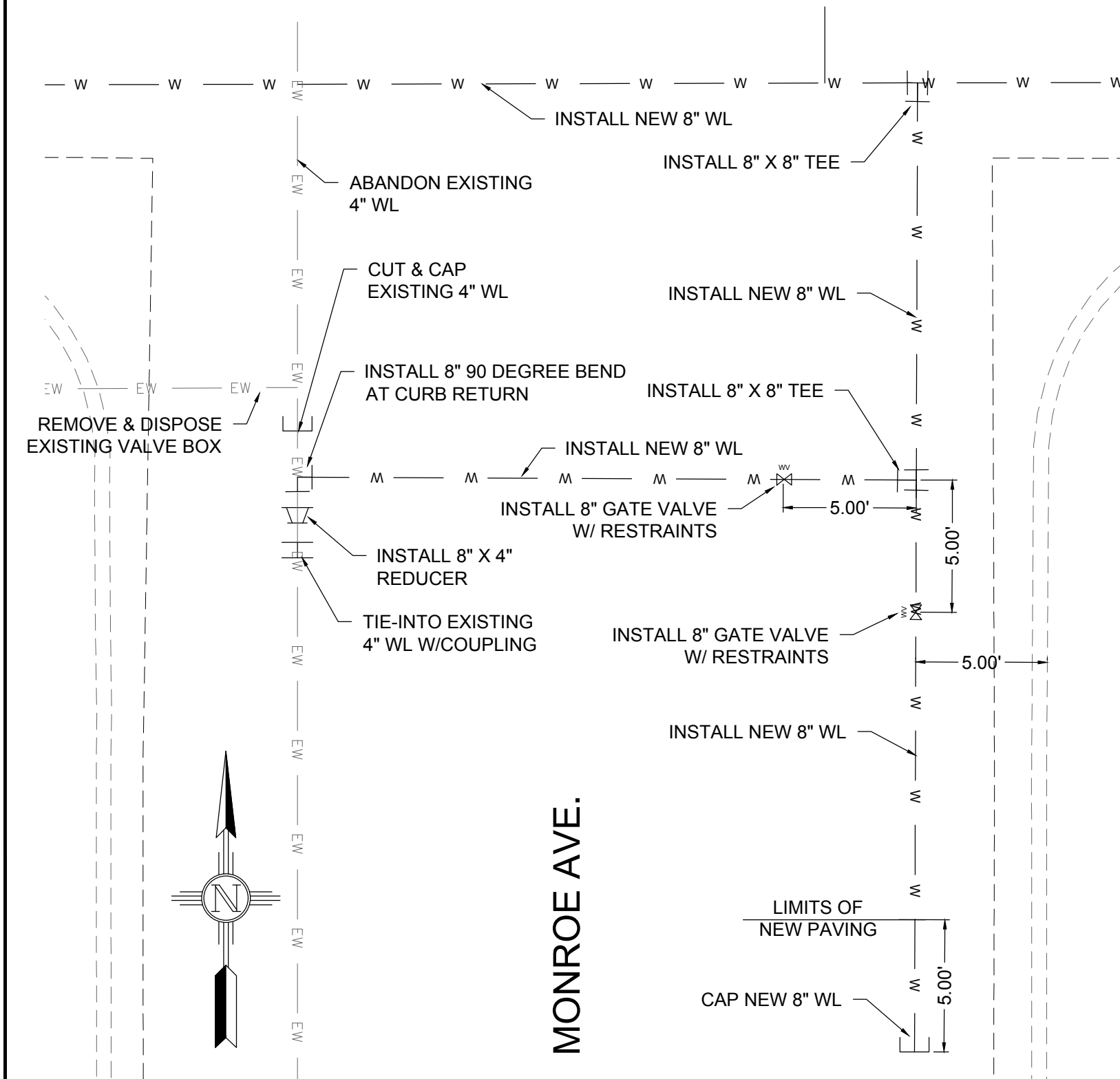
MATCH LINE-STA: 16+00 SEE SHEET U20.0

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60

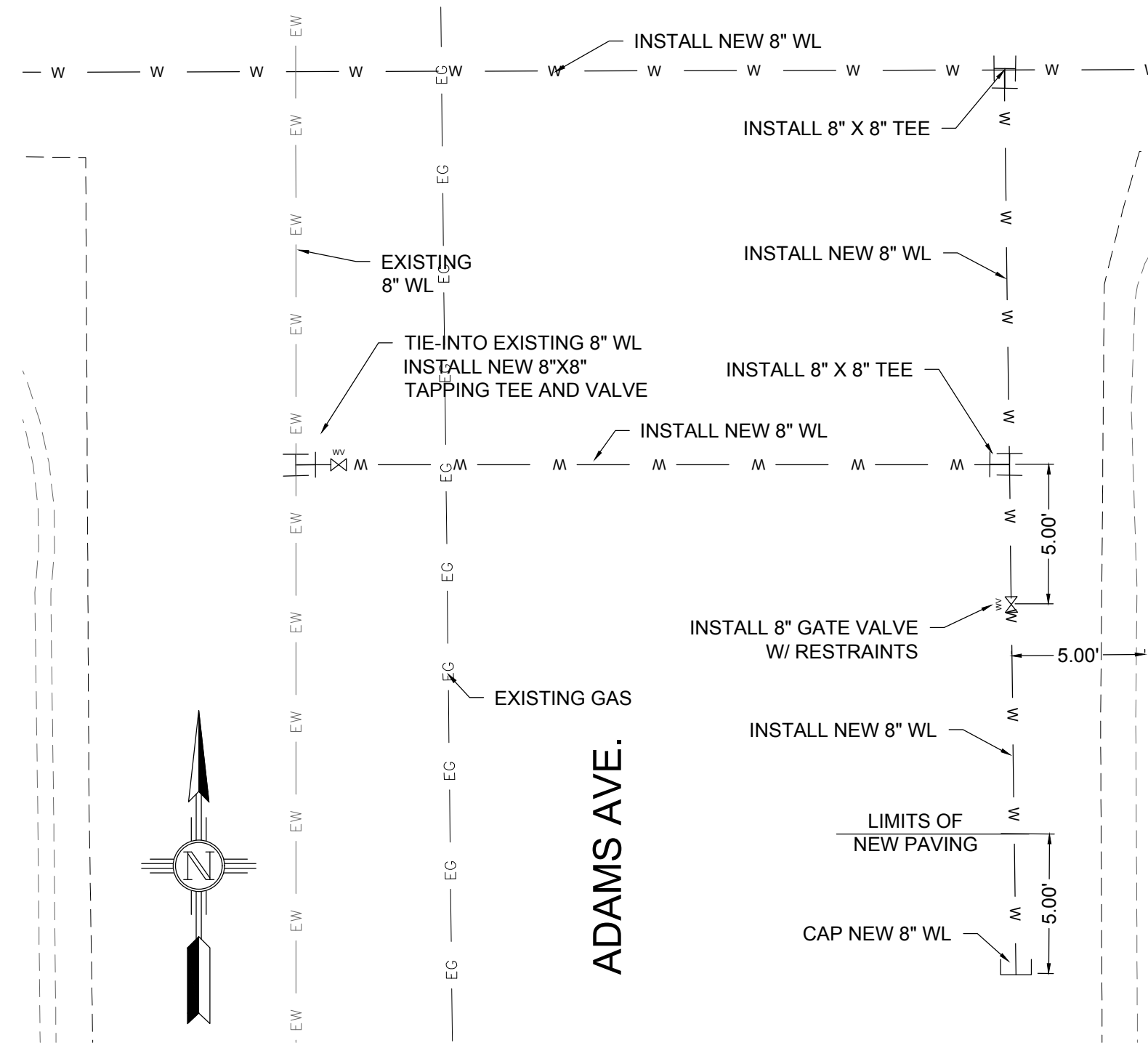


EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



ASPEN / MONROE TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



ASPEN / ADAMS TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

ASPEN DR. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
8+40.62, 24.12 LT	1"	41.12'
8+77.03, 23.43 RT	1 1/2"	6.44'
9+49.64, 24.19 LT	1 1/2"	41.19'
9+77.36, 24.35 RT	1"	7.35'
10+56.44, 23.55 LT	1 1/2"	40.55'
11+69.12, 23.89 RT	1"	6.89'
11+69.53, 23.59 LT	3/4"	40.59'
11+71.71, 23.68 LT	3/4"	40.68'
11+73.24, 23.71 LT	3/4"	40.71'
11+75.30, 23.75 LT	3/4"	40.75'
11+77.55, 23.85 LT	3/4"	40.85'
11+79.37, 23.89 LT	3/4"	40.89'
11+81.74, 23.52 LT	3/4"	40.52'
11+83.72, 23.66 LT	3/4"	40.66'
12+85.71, 22.66 RT	3/4"	5.66'
12+87.78, 22.66 RT	3/4"	5.66'
12+89.46, 22.55 RT	3/4"	5.55'
12+91.60, 22.67 RT	3/4"	5.67'

ASPEN DR. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
9+14.22, 29.68 RT	12.76'
12+78.18, 28.90 LT	46.05'
15+27.83, 33.20 RT	15.10'

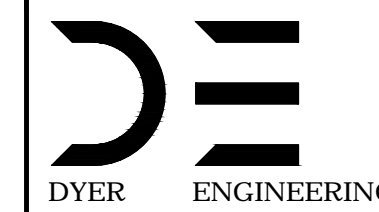
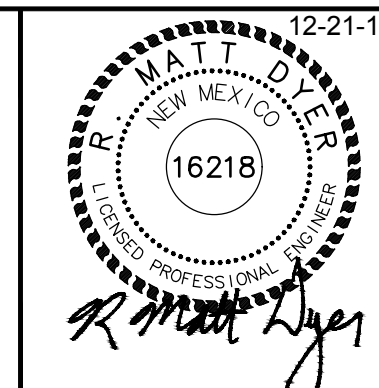
REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

**ASPEN DRIVE WATER LINE REPLACEMENT PLAN
STATION 8+00 TO 16+00**

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



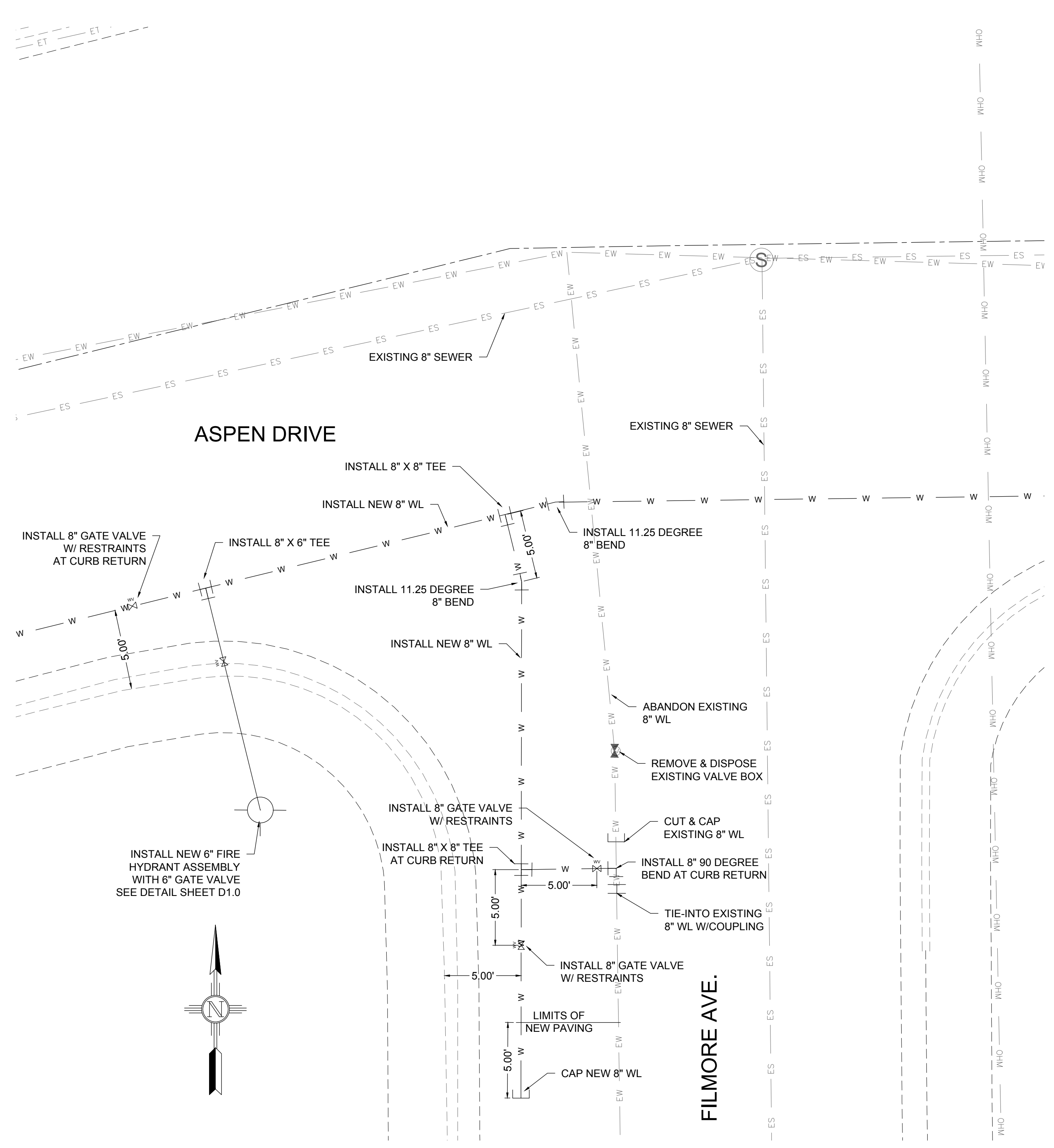
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD

Scale: Horiz.: Vert.: n/a

Sheet No.: U19.0

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EN1701



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN / FILMORE TIE-IN DETAIL
 FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

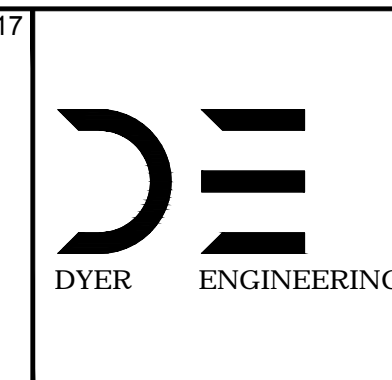
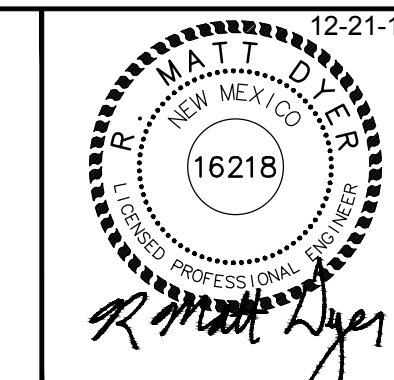
NEW MEXICO OFFICIAL SEAL



Street Maintenance Program FY 2017

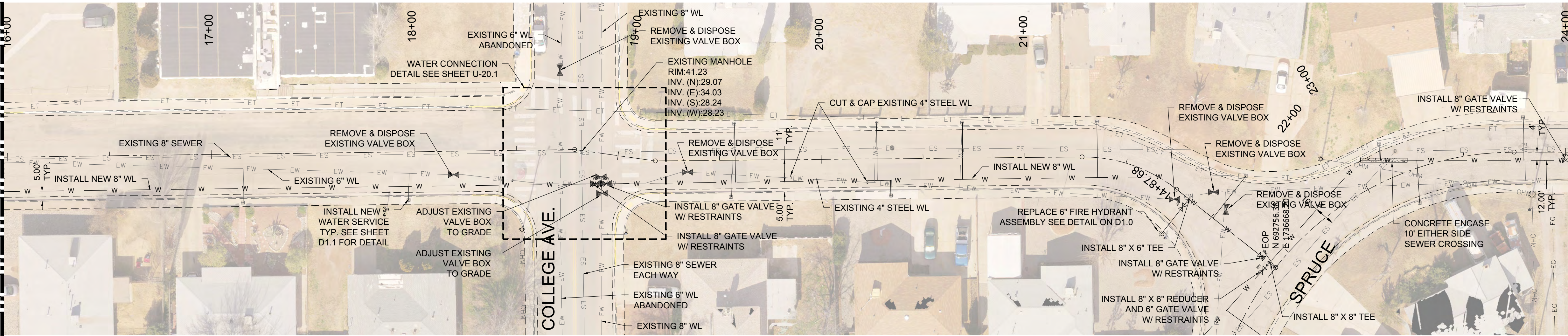
ASPEN DRIVE WATER LINE REPLACEMENT PLAN STATION 8+00 TO 16+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



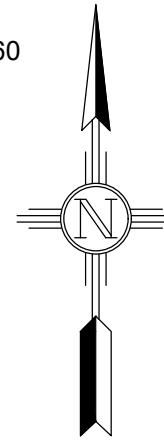
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Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	

MATCH LINE-STA: 16+00 SEE SHEET U19.0



MATCH LINE-STA: 24+00 SEE SHEET U21.0

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN DR. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
17+15.18, 23.59 RT	3/4"	6.80'
17+96.52, 23.56 RT	3/4"	6.70'
19+55.38, 17.98 RT	3/4"	7.46'
19+57.47, 17.88 LT	3/4"	29.00'
20+27.20, 17.72 LT	3/4"	28.00'
20+33.92, 18.23 RT	3/4"	8.00'
20+69.57, 17.48 LT	3/4"	28.10'
21+34.02, 17.61 LT	3/4"	27.50'
22+00.82, 26.10 LT	3/4"	26.10'
23+13.99, 17.63 LT	3/4"	7.96'
23+21.97, 16.76 RT	3/4"	20.98'
23+79.23, 16.74 LT	3/4"	20.74'

ASPEN DR. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
21+88.56, 21.90 RT	21.90'

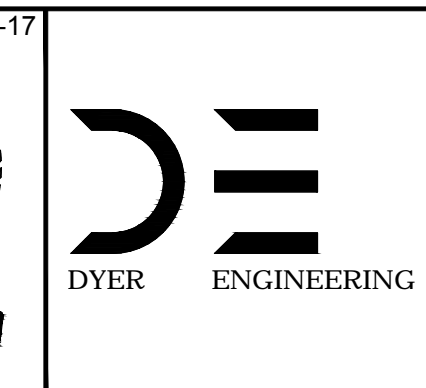
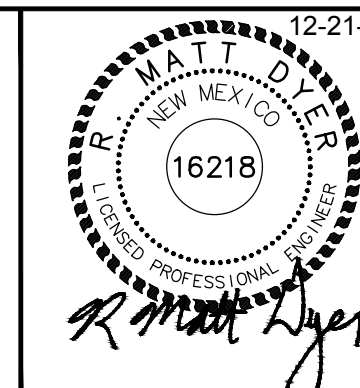
REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

ASPEN DRIVE WATER LINE REPLACEMENT PLAN STATION 16+00 TO 24+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

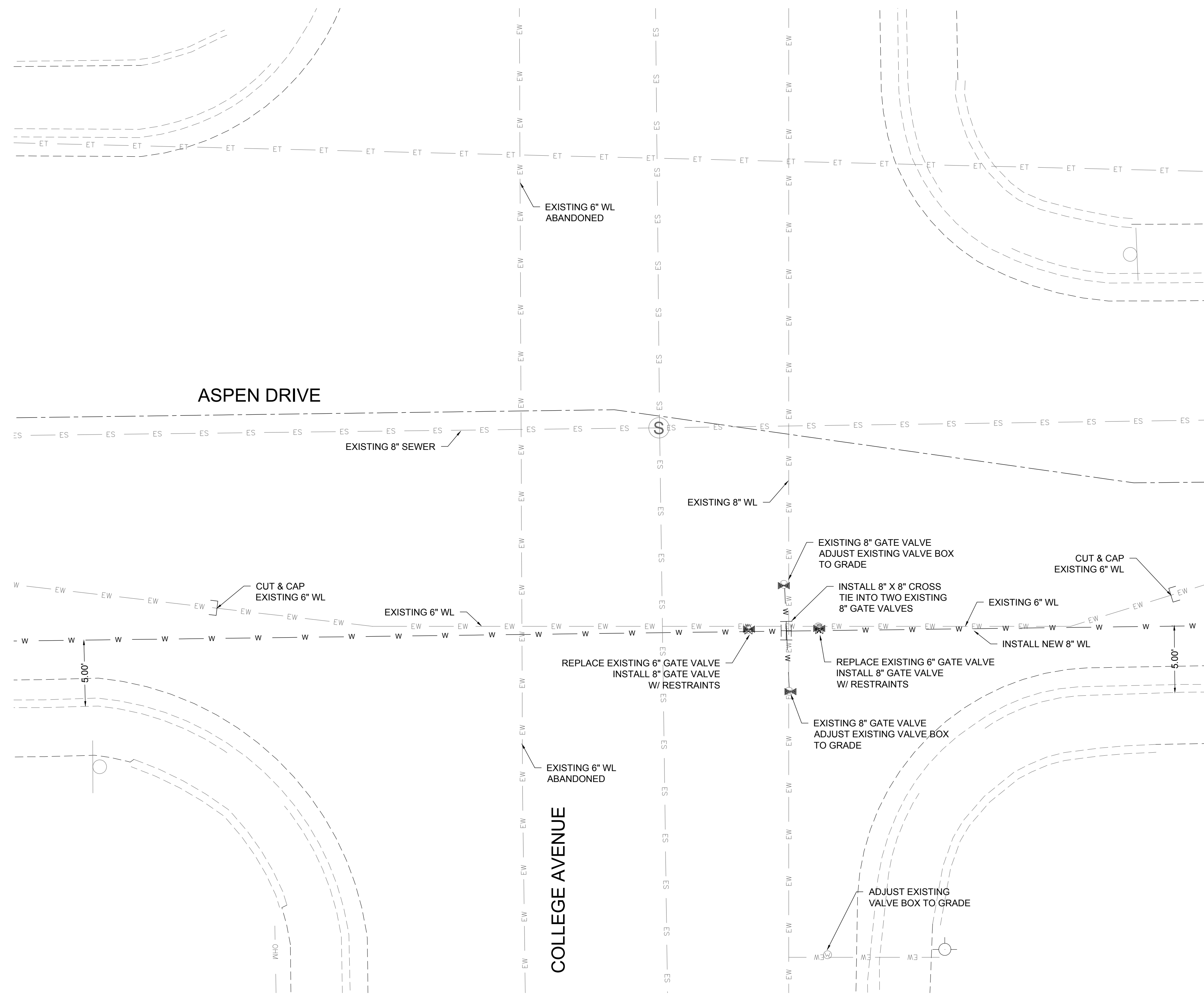


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:
U20.0

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EN1701



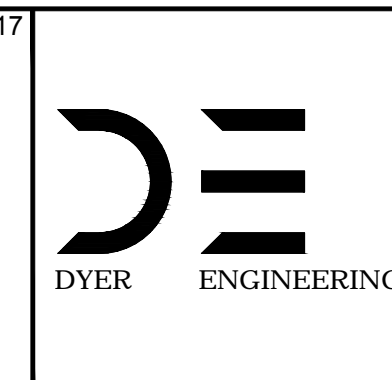
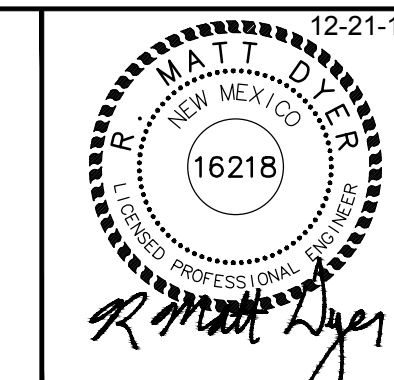
EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN / COLLEGE TIE-IN DETAIL
 FULL SCALE: 1:5 HALF SCALE 1:10

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



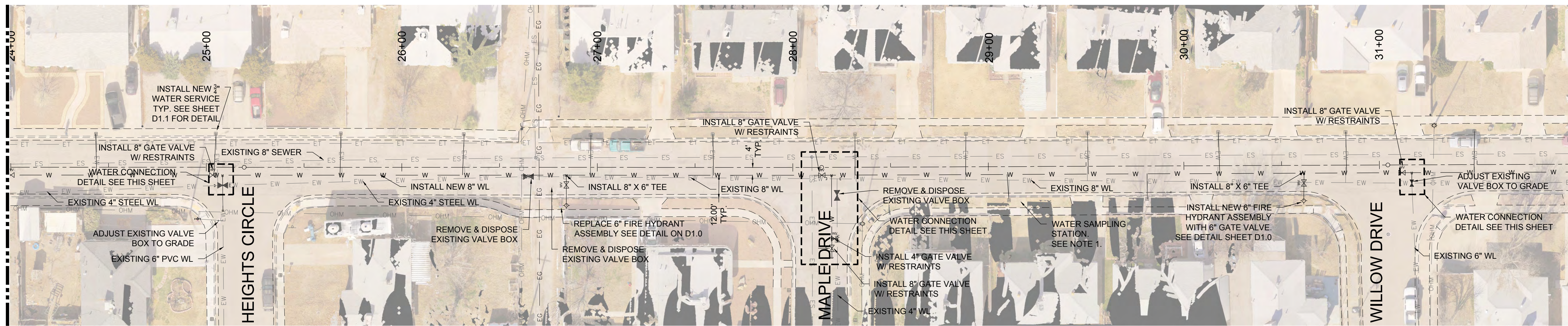
Street Maintenance Program FY 2017
ASPEN DRIVE WATER LINE REPLACEMENT PLAN
STATION 16+00 TO 24+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



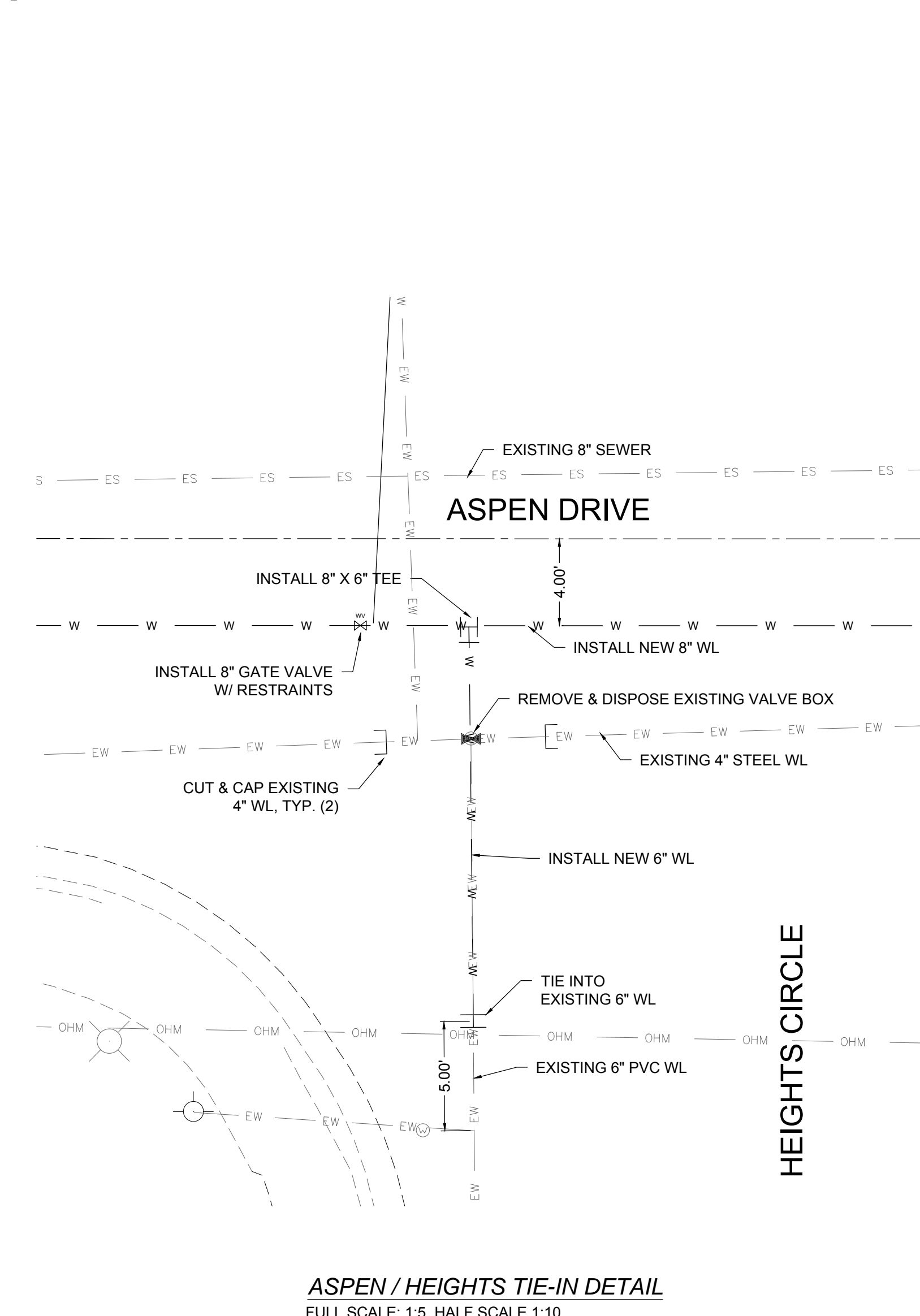
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Drawn By: AD Designed By: AD	
Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	Sheet 84 of 103
	EN1701

MATCH LINE-STA: 24+00 SEE SHEET U20.0

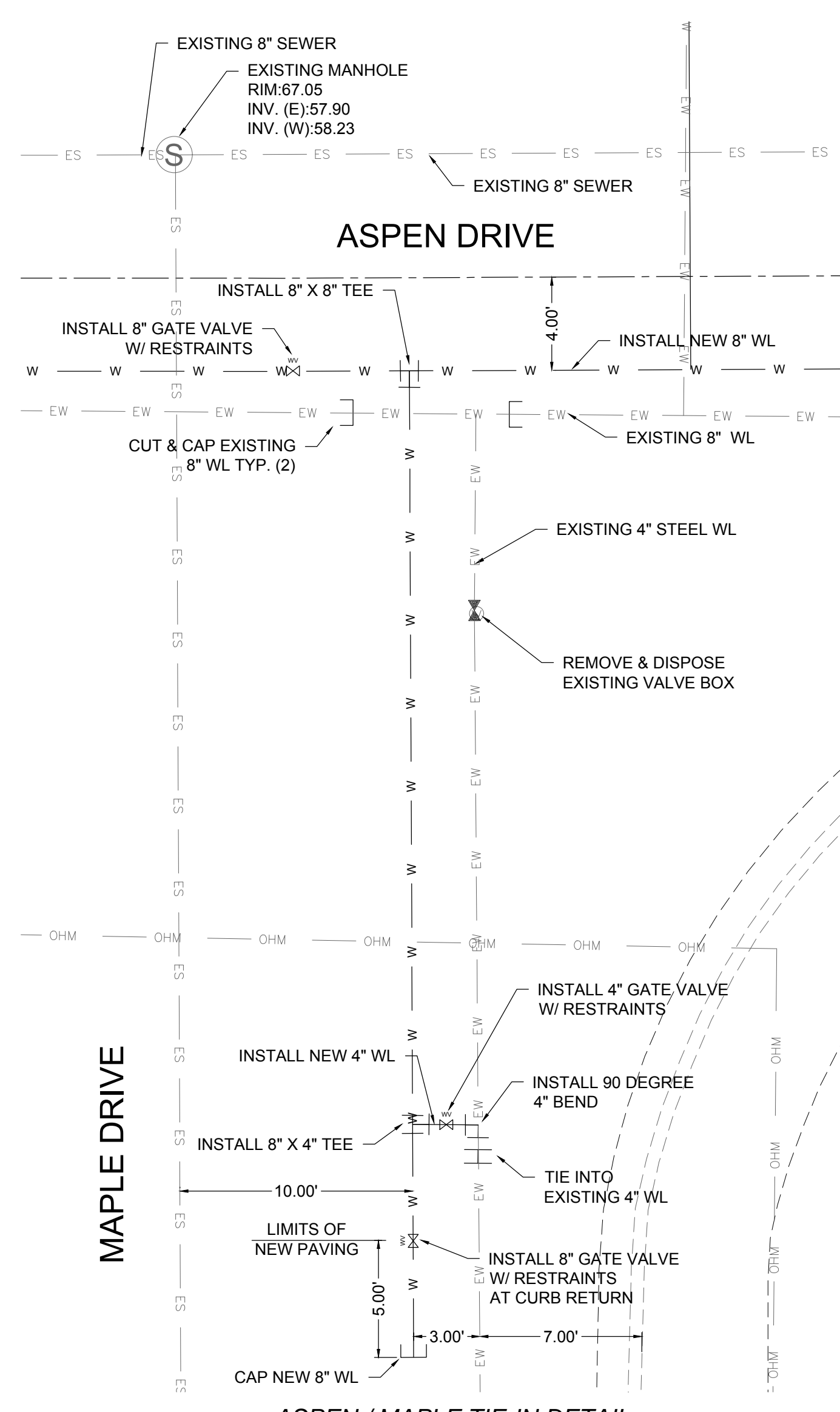
MATCH LINE-STA: 32+00 SEE SHEET U22.0



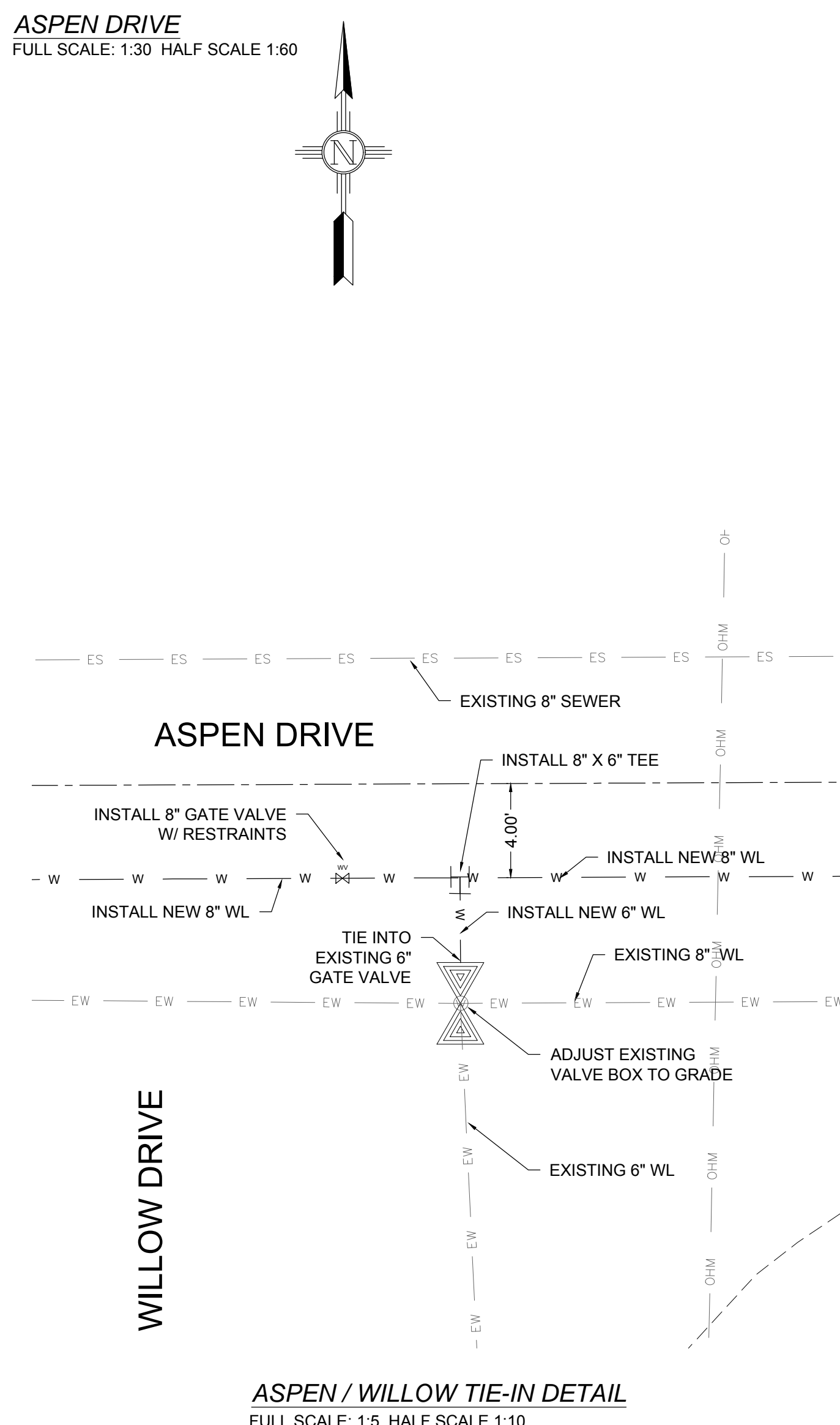
- NOTES:
1. INSTALL WATER SAMPLING STATION AT 2302 ASPEN DRIVE. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER.



ASPEN / HEIGHTS TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



ASPEN / MAPLE TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



ASPEN / WILLOW TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN DR. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
24+43.63, 17.27 LT	3/4"	21.27'
25+05.07, 16.75 LT	3/4"	20.75'
25+68.71, 16.96 LT	3/4"	20.96'
26+31.62, 16.64 LT	3/4"	20.64'
26+96.60, 16.35 LT	3/4"	20.35'
27+59.02, 16.86 LT	3/4"	20.86'
28+31.82, 16.79 LT	3/4"	20.79'
28+88.44, 16.88 LT	3/4"	20.88'
29+10.38, 17.29 RT	3/4"	13.29'
29+50.77, 17.27 LT	3/4"	21.27'
29+81.25, 16.94 RT	3/4"	12.94'
30+17.49, 17.14 LT	3/4"	21.14'
30+82.94, 17.02 LT	3/4"	21.02'
31+48.71, 17.06 LT	3/4"	21.06'

ASPEN DR. 6" FIRE HYDRANT ASSEMBLY

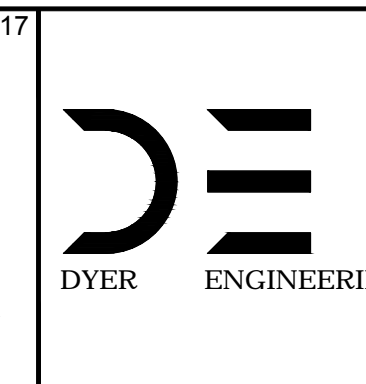
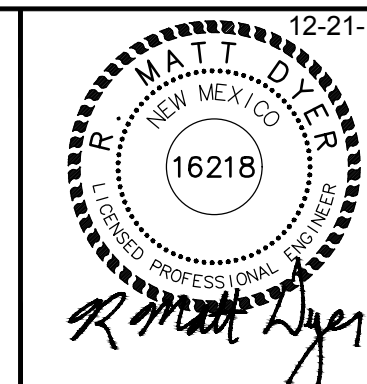
STA. AND OFFSET	LENGTH
26+80.79, 19.41 RT	15.41'
30+61.32, 18.01 RT	14.01'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMOC
NEW MEXICO
Professional Engineer
16218



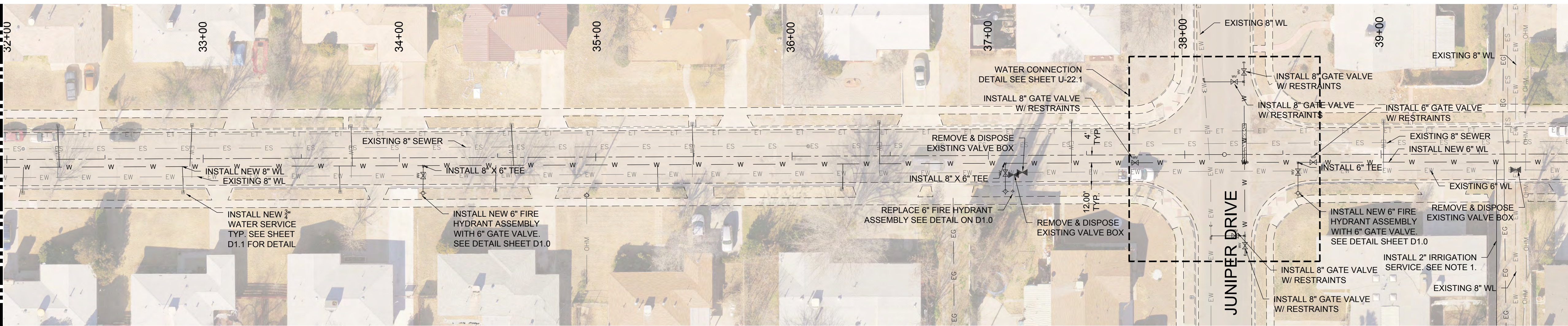
Street Maintenance Program FY 2017
ASPEN DRIVE WATER LINE REPLACEMENT PLAN
STATION 24+00 TO 32+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD
 Scale: Horiz.: Vert.: n/a

Sheet No.: U21.0
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 EN1701

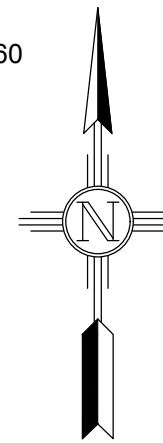
MATCH LINE-STA: 32+00 SEE SHEET U21.0



MATCH LINE-STA: 40+00 SEE SHEET U23.0

- NOTES:
- CONTRACTOR SHALL INSTALL NEW 2" IRRIGATION SERVICE LINE APPROXIMATELY 210 LF TO THE SOUTH DOWN THE ALLEY. THE NEW SERVICE IS FOR 1302 JUNIPER DRIVE.

ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN DR. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
32+08.18, 16.59 RT	3/4"	12.59'
32+26.06, 17.10 LT	3/4"	21.10'
32+89.66, 17.07 RT	3/4"	13.07'
32+94.27, 16.99 LT	3/4"	20.99'
33+69.55, 17.24 RT	3/4"	13.24'
33+75.48, 16.32 LT	3/4"	20.32'
34+48.85, 16.90 RT	3/4"	12.90'
34+56.93, 16.65 LT	3/4"	20.65'
35+31.53, 16.90 RT	3/4"	12.90'
35+49.22, 16.44 LT	3/4"	20.44'
36+25.47, 16.62 RT	3/4"	12.62'
36+44.32, 17.05 LT	3/4"	21.05'
37+42.22, 17.15 LT	3/4"	21.15'
39+01.37, 17.05 LT	3/4"	21.05'

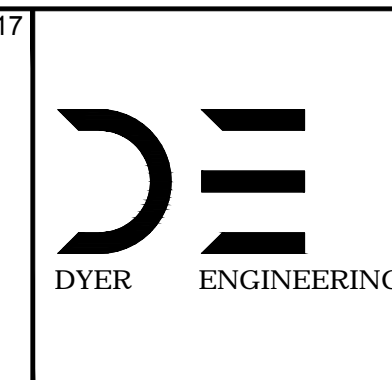
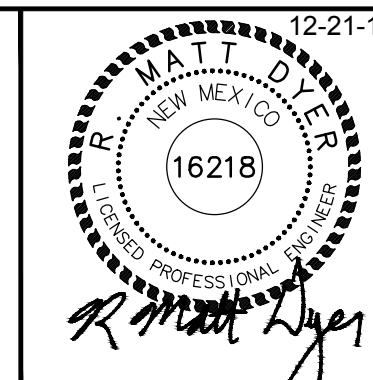
ASPEN DR. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
34+11.80, 17.90 RT	13.90'
37+12.50, 18.37 RT	14.37'
38+57.54, 19.54 RT	15.54'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

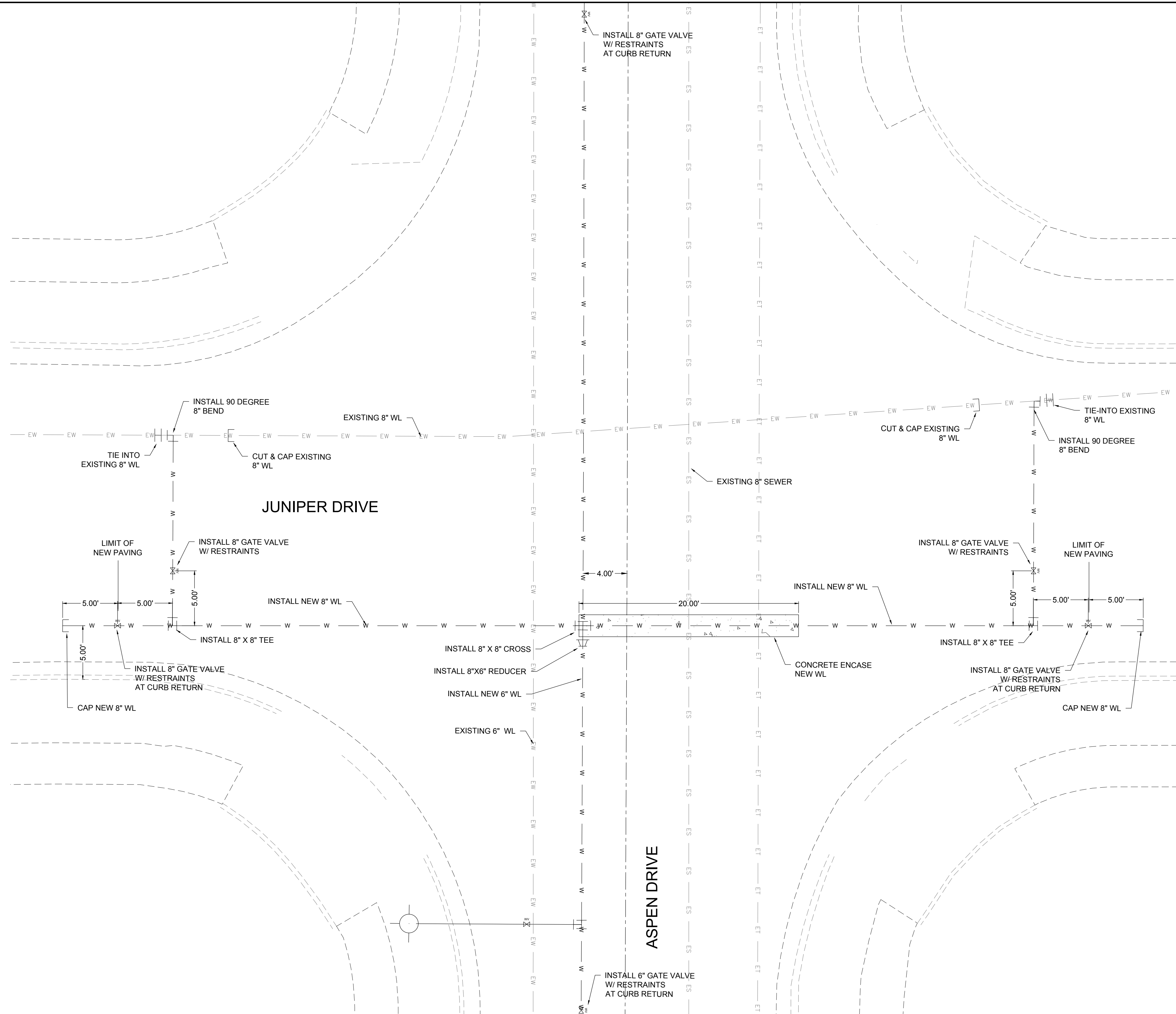


Street Maintenance Program FY 2017
ASPEN DRIVE WATER LINE REPLACEMENT PLAN
STATION 32+00 TO 40+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



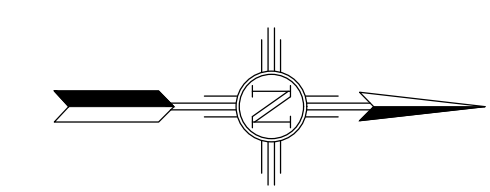
Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD
 Scale: Horiz.: Vert.: n/a

Sheet No.: U22.0
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EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

ASPEN / JUNIPER TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMOC

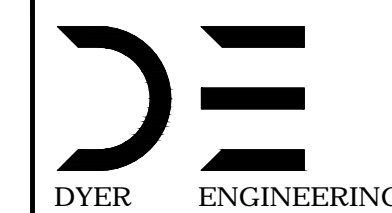
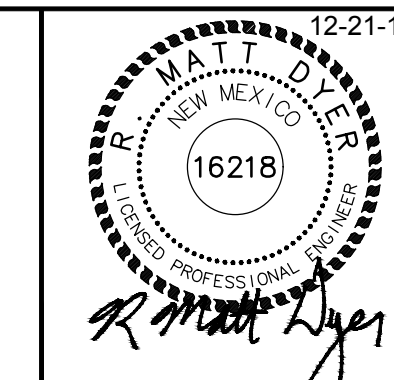
 PROFESSIONAL ENGINEERING
 16218
 12-21-17



Street Maintenance Program FY 2017

ASPEN / JUNIPER WATER LINE TIE IN DETAIL

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

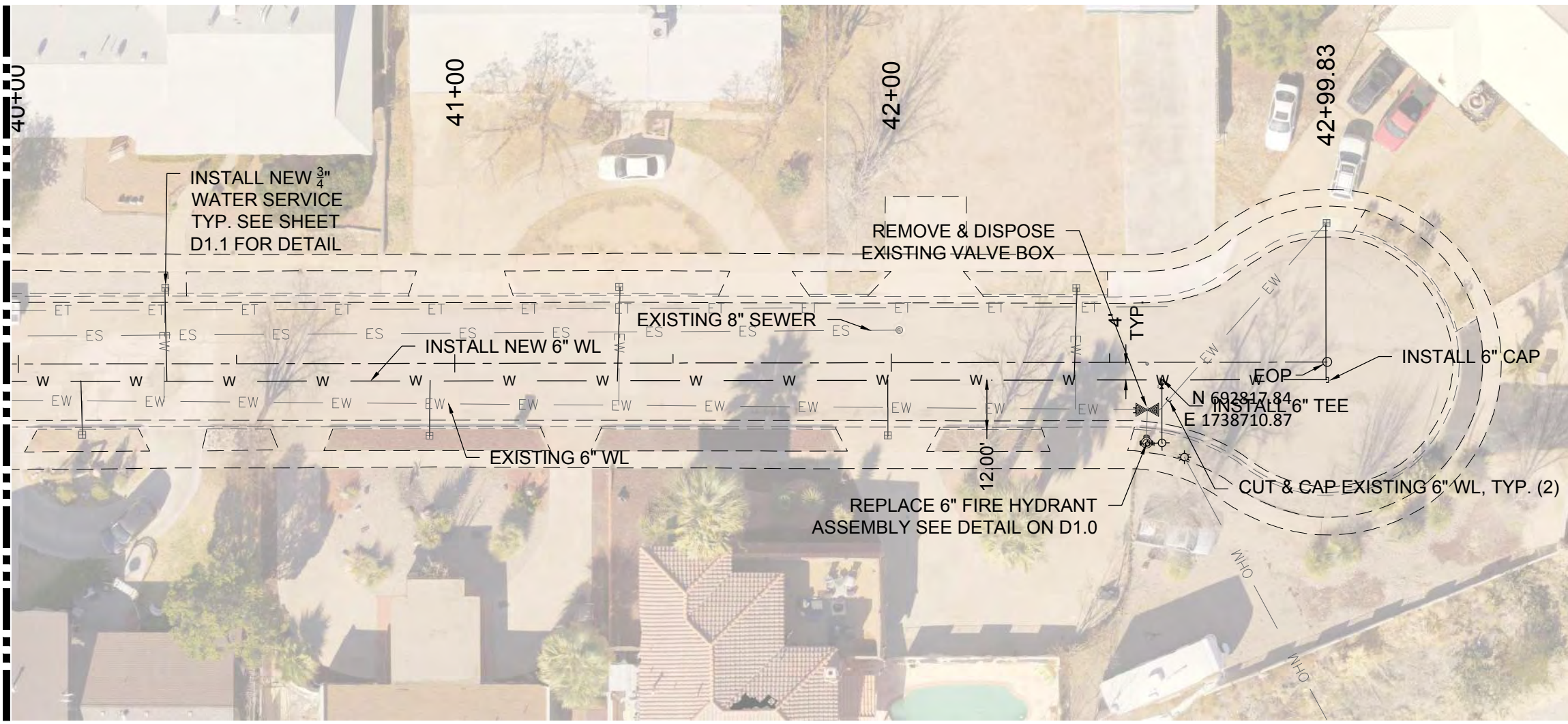


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD

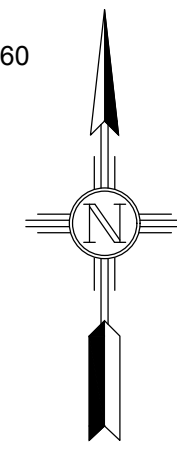
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Sheet No.:	U22.1
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EN1701	

MATCH LINE-STA: 40+00 SEE SHEET U22.0



ASPEN DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND		
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE	
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE	
— ES — ES —	EXISTING SEWER	
— EW — EW —	EXISTING WATER	
— EG — EG —	EXISTING UNDERGROUND GAS	
— ET — ET —	EXISTING UNDERGROUND TELEPHONE	
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE	

ASPEN DR. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
40+14.61, 16.37 RT	1"	12.37'
40+33.87, 17.18 LT	3/4"	21.18'
40+94.25, 16.66 RT	3/4"	12.66'
41+37.91, 17.36 LT	3/4"	21.36'
41+99.11, 16.64 RT	3/4"	12.64'
42+42.21, 17.21 LT	3/4"	21.21'
42+99.83, 31.67 LT	1"	35.67'

ASPEN DR. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
42+58.64, 18.49 RT	14.49'

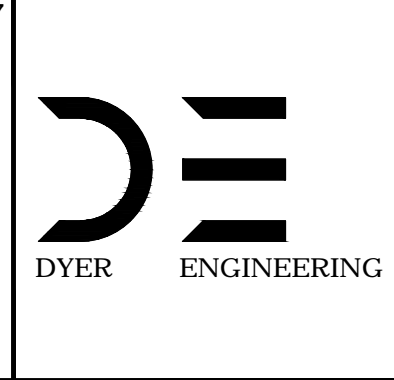
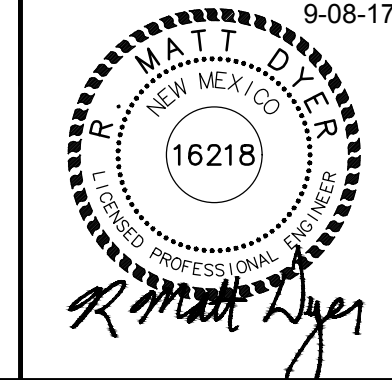
REV. No.	DATE	DESCRIPTION	APPROVED
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



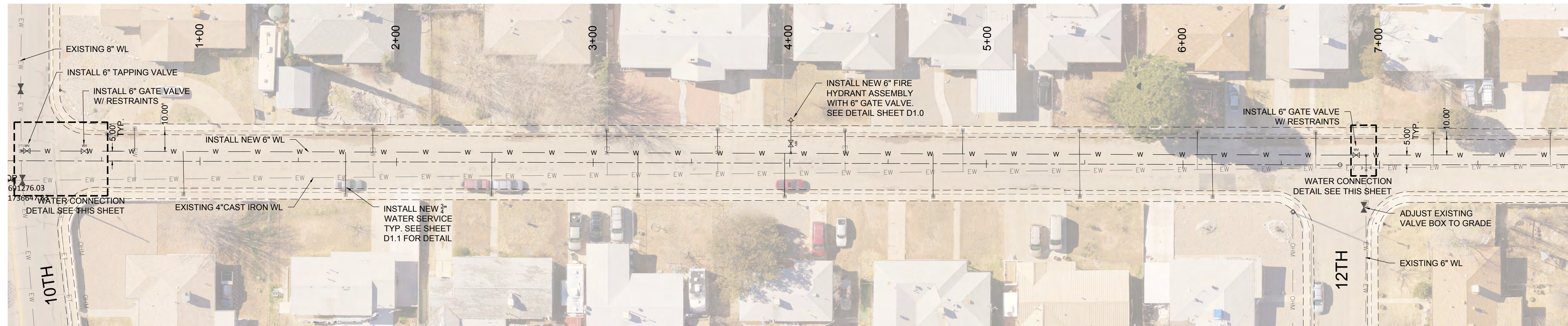
Street Maintenance Program FY 2017

ASPEN DRIVE WATER LINE REPLACEMENT PLAN STATION 40+00 TO 42+99

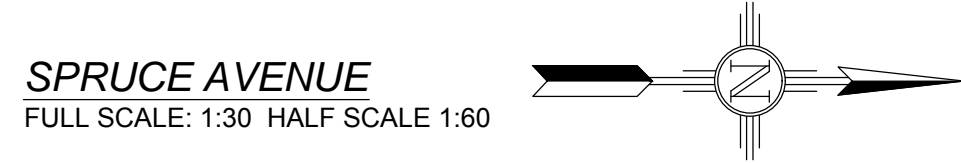
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010	Sheet No.: U23.0
Drawn By: AD Designed By: AD	
Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	Sheet 88 of 103
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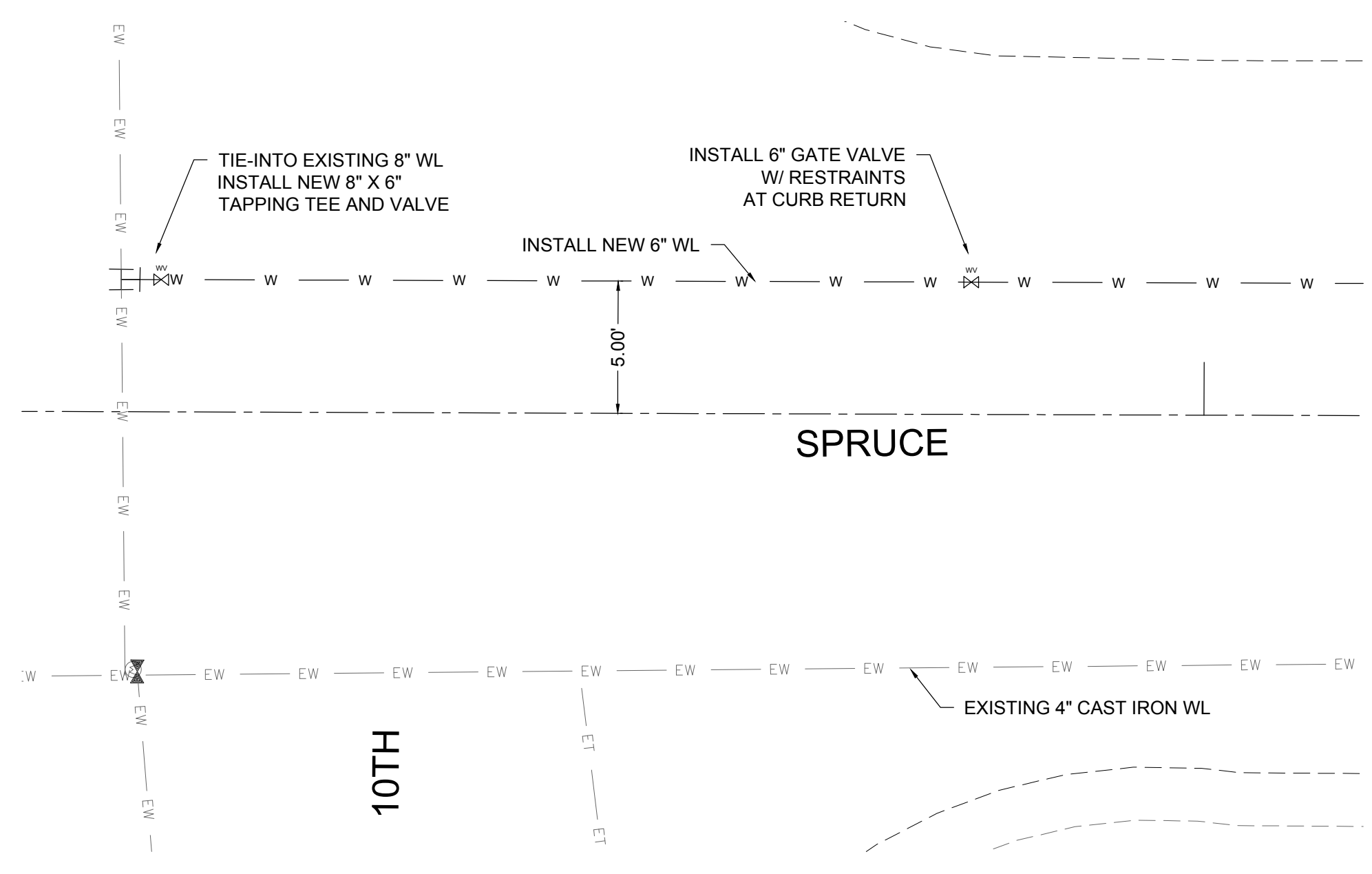


MATCH LINE-STA: 8+00 SEE SHEET U25.0

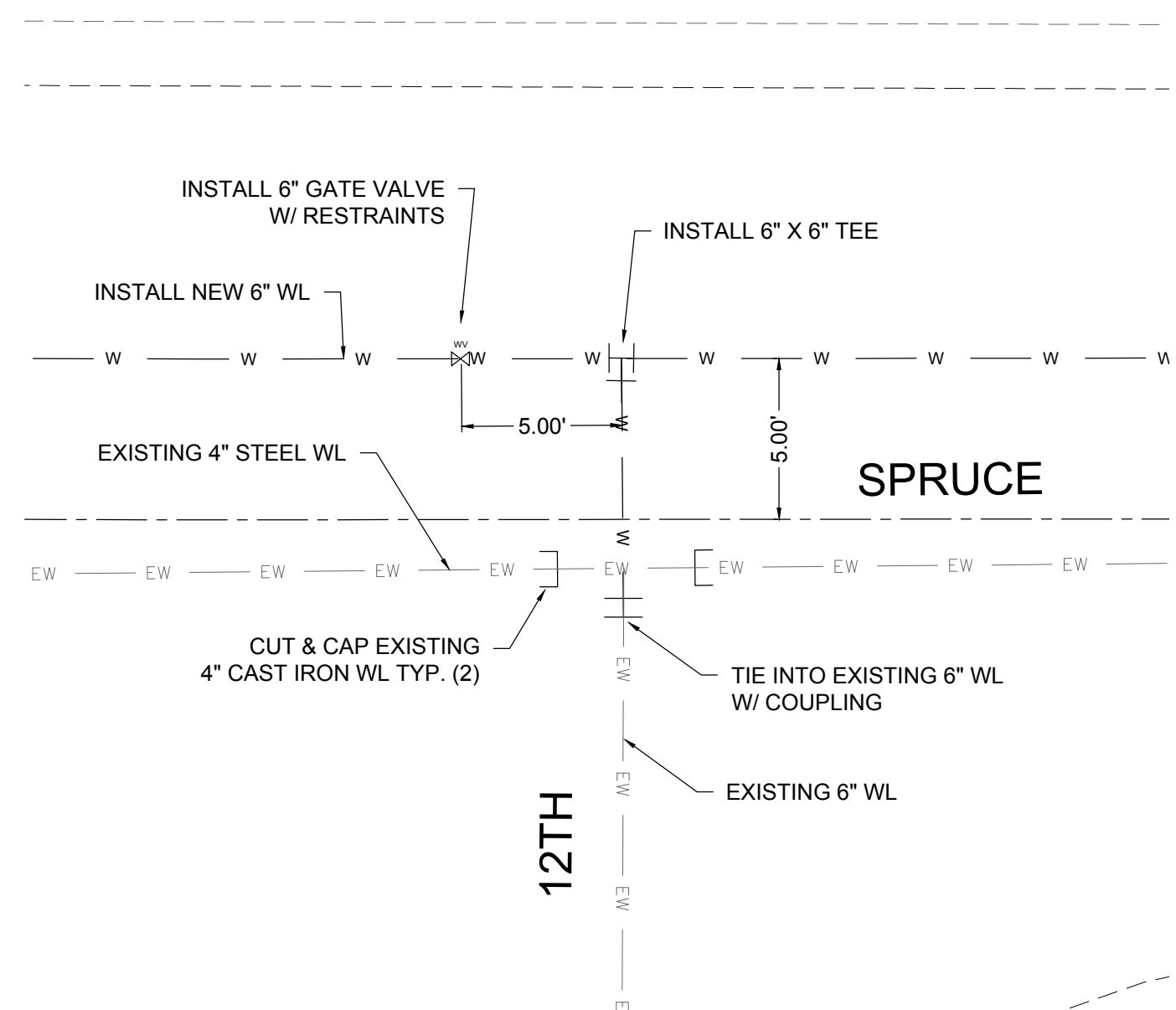


EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



SPRUCE / 10TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



SPRUCE / 12TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

SPRUCE AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
0+66.77, 16.67 LT	3/4"	11.67'
0+91.74, 16.68 RT	3/4"	21.68'
1+74.25, 16.97 RT	3/4"	21.97'
1+87.85, 16.45 LT	3/4"	11.45'
2+48.53, 16.97 RT	3/4"	21.97'
3+07.01, 16.76 LT	3/4"	11.76'
3+22.50, 16.80 RT	3/4"	21.80'
3+63.14, 16.85 LT	3/4"	11.85'
3+97.62, 17.12 RT	3/4"	22.12'
4+28.03, 16.73 LT	3/4"	11.73'
4+72.94, 16.62 RT	3/4"	21.62'
4+87.88, 16.80 LT	3/4"	11.80'
5+47.06, 17.21 LT	3/4"	12.21'
5+47.75, 16.61 RT	3/4"	21.61'
6+07.01, 16.78 LT	3/4"	11.78'
6+15.27, 16.40 RT	3/4"	21.40'
6+67.29, 16.69 LT	3/4"	11.69'
7+27.17, 16.40 LT	3/4"	11.40'
7+86.69, 16.56 LT	3/4"	11.56'

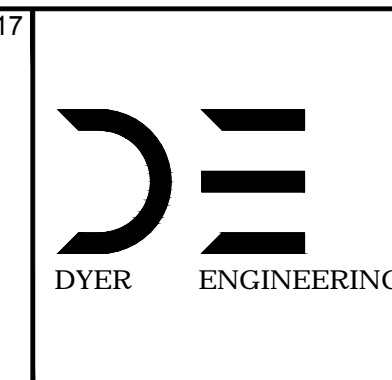
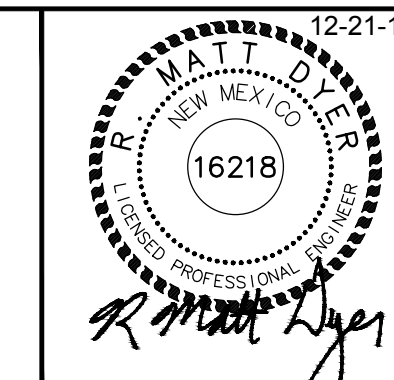
SPRUCE AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
4+00.50, 21.72 LT	16.72'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

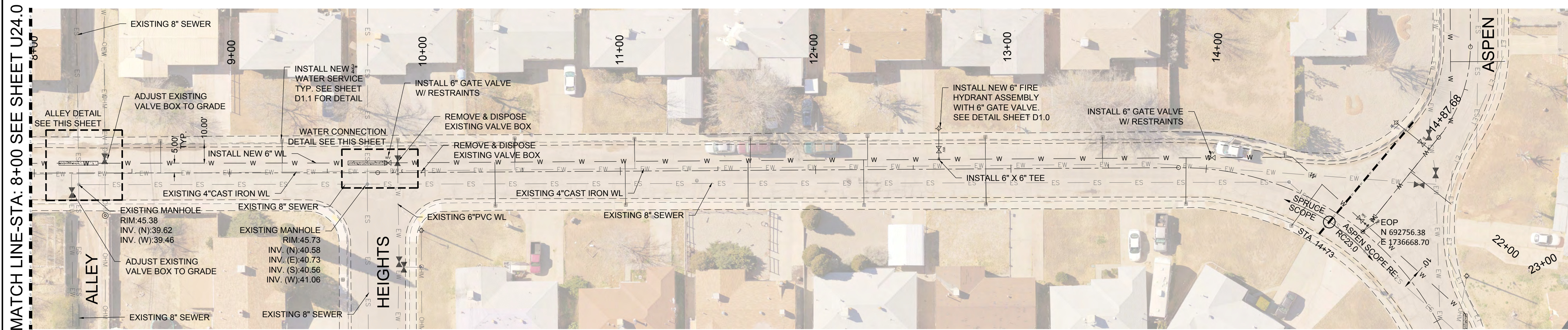


Street Maintenance Program FY 2017
SPRUCE AVENUE WATER LINE REPLACEMENT
PLAN STATION 0+09 TO 8+00
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



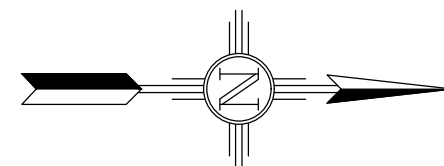
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.: **U24.0**
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EN1701



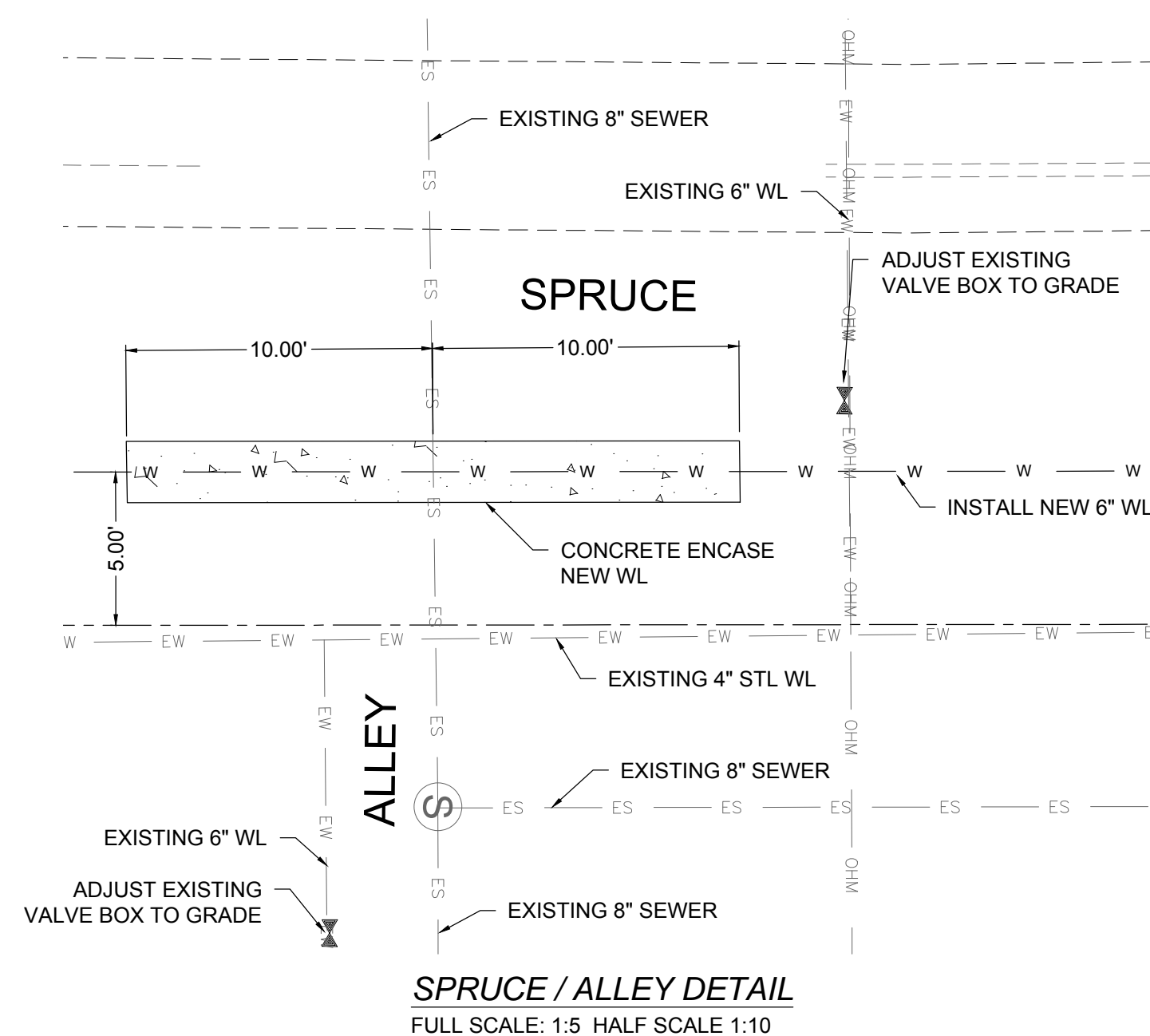
MATCH LINE STA: 8+00 SEE SHEET U24.0

SPRUCE AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

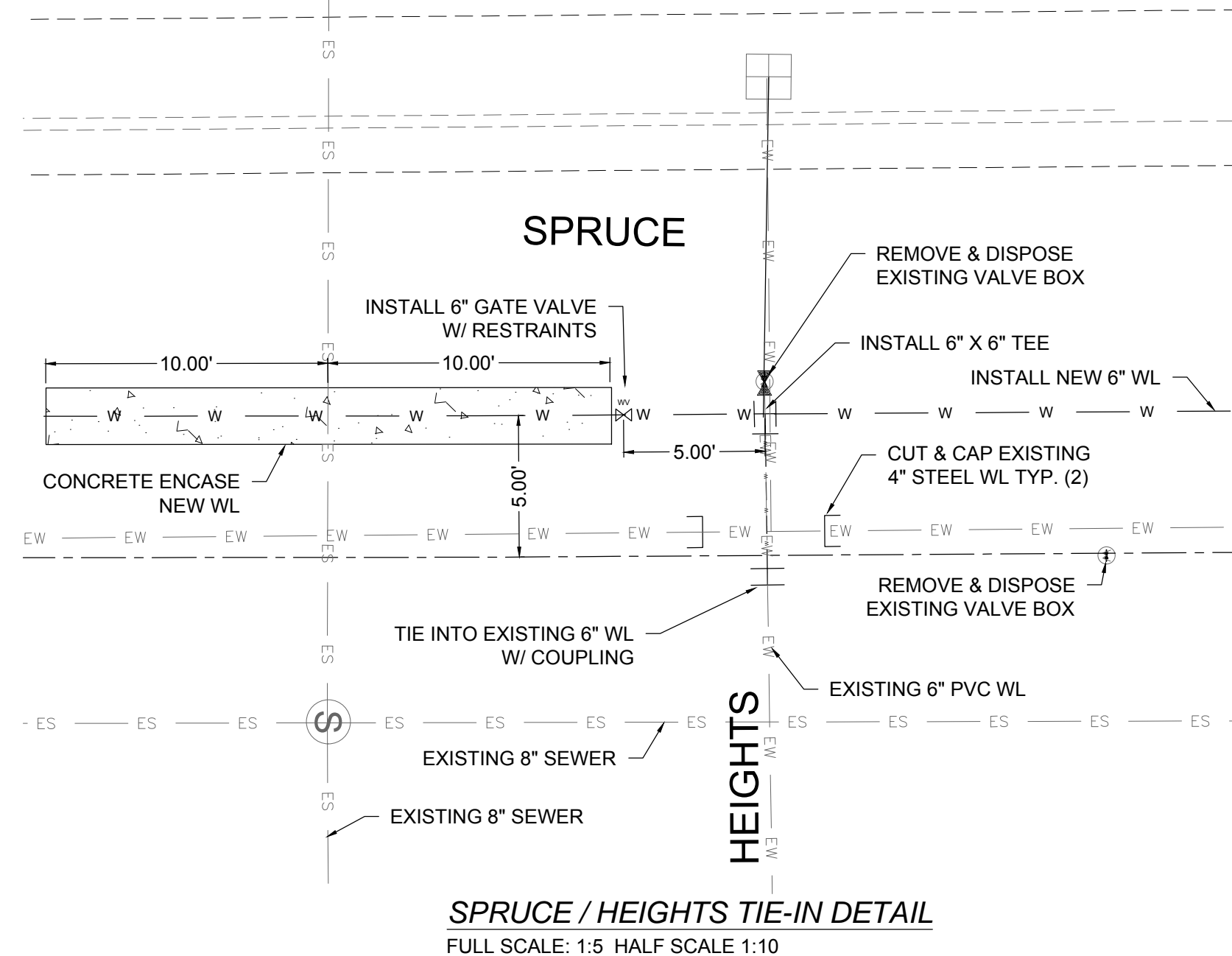


EXISTING UTILITY LEGEND

—EOHT—EOHT—	EXISTING OVER HEAD TELEPHONE
—OHPL—OHPL—	EXISTING OVER HEAD POWER LINE
—ES—ES—	EXISTING SEWER
—EW—EW—	EXISTING WATER
—EG—EG—	EXISTING UNDERGROUND GAS
—ET—ET—	EXISTING UNDERGROUND TELEPHONE
—OHM—OHM—	EXISTING OVER HEAD MULTIPLE



SPRUCE / ALLEY DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



SPRUCE / HEIGHTS TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

SPRUCE AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
8+64.69, 16.39 LT	3/4"	11.39'
9+26.73, 16.86 LT	3/4"	11.86'
9+85.81, 16.81 LT	3/4"	11.81'
10+36.02, 17.54 RT	3/4"	22.54'
10+45.91, 16.99 LT	3/4"	11.99'
11+02.52, 17.12 RT	3/4"	22.12'
11+07.20, 16.80 LT	3/4"	11.80'
11+65.31, 17.71 RT	3/4"	22.71'
11+66.62, 16.19 LT	3/4"	11.19'
12+24.47, 18.36 RT	3/4"	23.36'
12+26.64, 16.53 LT	3/4"	11.53'
12+87.15, 18.39 RT	3/4"	23.39'
12+86.96, 16.20 LT	3/4"	11.20'
13+46.72, 15.87 LT	3/4"	10.87'
13+89.99, 18.59 RT	3/4"	23.64'
14+36.03, 16.26 LT	3/4"	1.97'
14+53.39, 17.03 RT	3/4"	26.22'

SPRUCE AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
12+63.27, 20.88 LT	15.88'

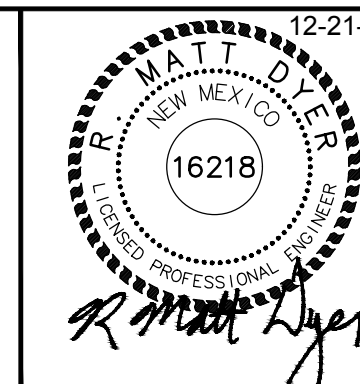
REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

**SPRUCE AVENUE WATER LINE REPLACEMENT
PLAN STATION 8+00 TO 14+87**

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



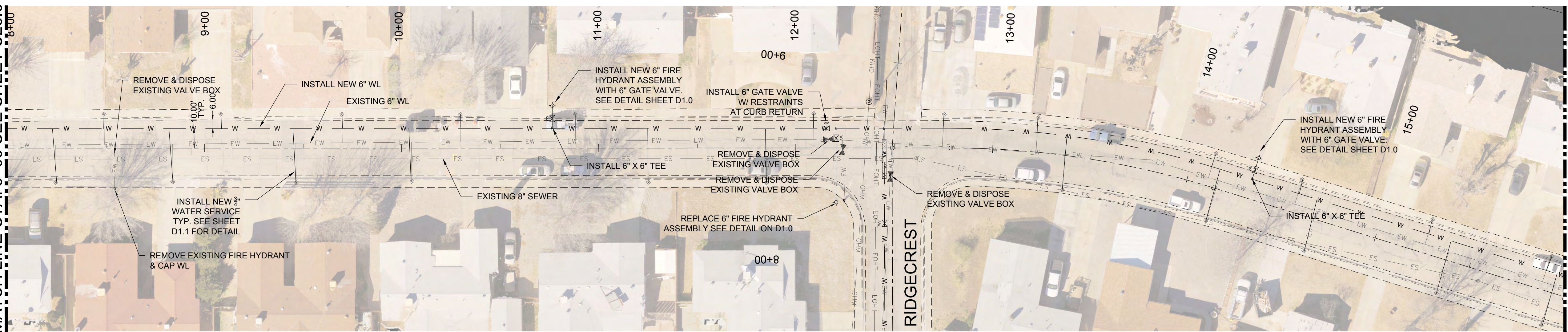
Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD

Scale: Horiz.: Vert.: n/a

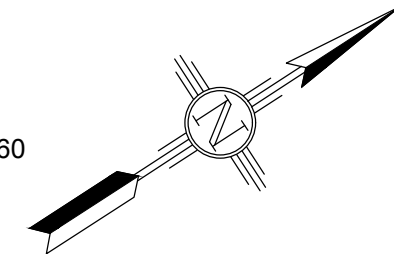
Sheet No.:	U25.0
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EN1701	

MATCH LINE-STA: 8+00 SEE SHEET U26.0

MATCH LINE-STA: 16+00 SEE SHEET U28.0



McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

McKINLEY AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
8+24.36, 17.60 RT	3/4"	27.60'
8+48.96, 17.38 LT	3/4"	7.38'
8+83.85, 17.22RT	3/4"	27.22'
9+08.26, 17.35 RT	3/4"	7.35'
9+46.40, 17.45 RT	3/4"	27.45'
9+69.57, 17.13 LT	3/4"	7.13'
10+05.20, 16.98 RT	3/4"	26.98'
10+29.58, 17.14 LT	3/4"	7.14'
10+88.29, 17.13 LT	3/4"	7.13'
11+25.03, 17.41 RT	3/4"	27.41'
11+84.94, 17.66 RT	3/4"	27.66'
12+09.08, 17.48 LT	3/4"	7.48'
12+46.42, 34.88 LT	3/4"	24.88'
12+75.23, 17.18 LT	3/4"	7.18'
13+21.43, 17.52 LT	3/4"	7.52'
13+37.73, 17.39 RT	3/4"	27.39'
14+10.23, 17.13 LT	3/4"	7.13'
14+15.46, 17.15 RT	3/4"	27.15'
14+55.87, 17.62 LT	3/4"	7.62'
14+67.61, 17.25 RT	3/4"	27.25'
15+25.03, 17.58 LT	3/4"	7.58'
15+37.94, 17.18 RT	3/4"	27.18'
15+87.98, 17.86 LT	3/4"	7.86'
15+93.45, 17.38 RT	3/4"	27.38'

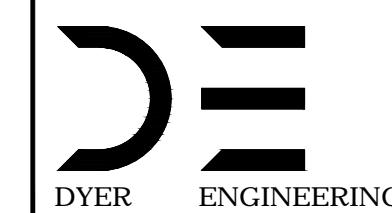
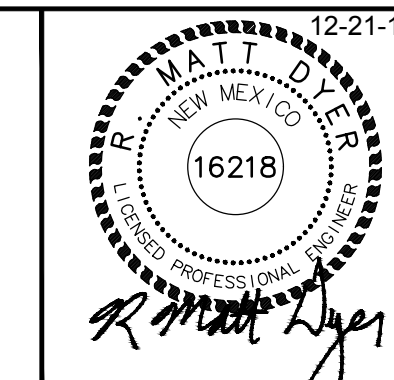
McKINLEY AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
10+76.71, 21.31 LT	11.53'
12+20.61, 27.64 RT	37.01'
14+32.23, 21.22 LT	11.38'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017
McKINLEY AVENUE WATER LINE REPLACEMENT
PLAN STATION 8+00 TO 16+00
CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

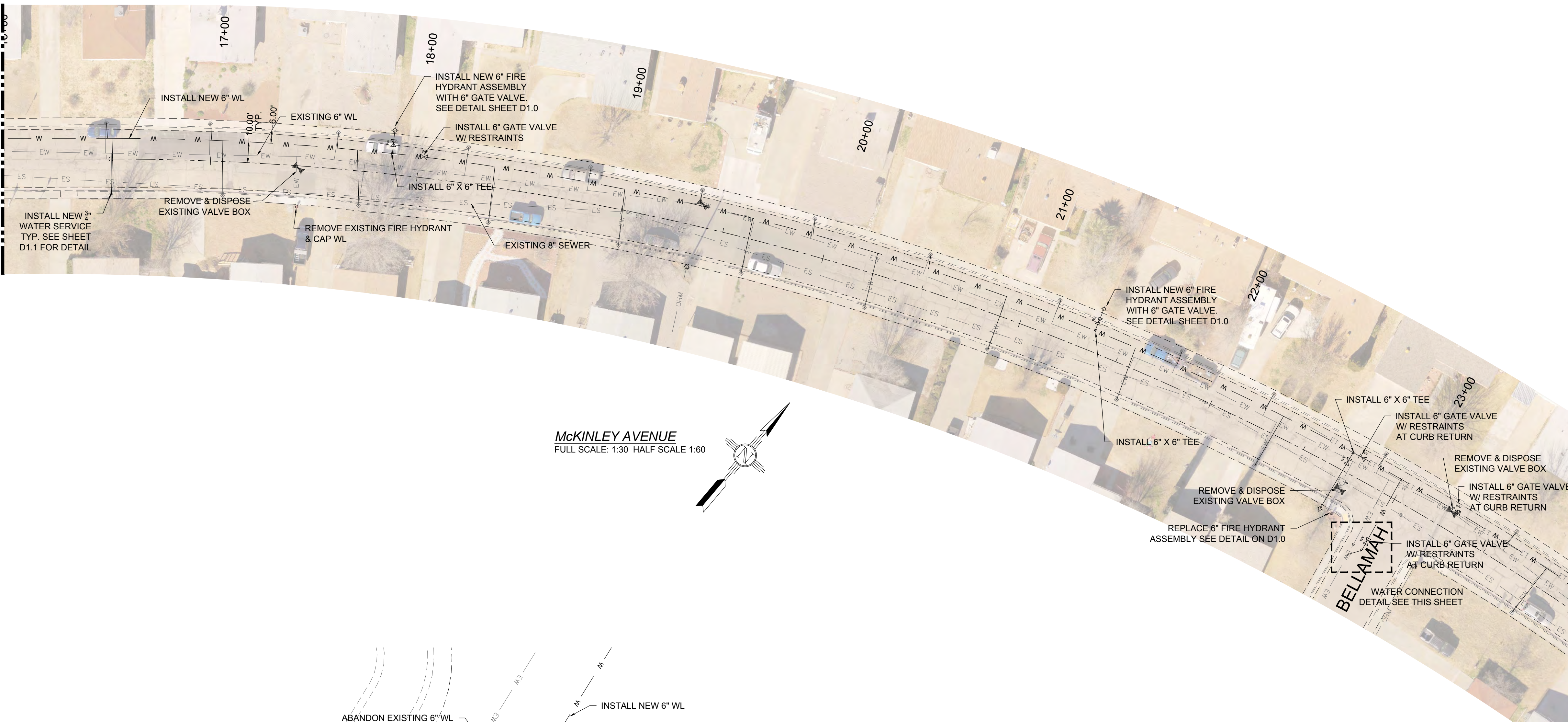


Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD

Scale: Horiz.: Vert.: n/a

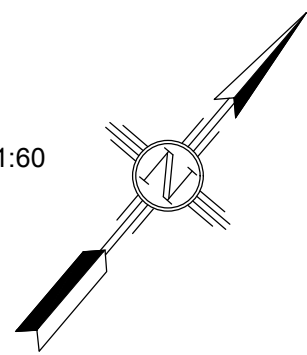
Sheet No.: **U27.0**
 Sheet 92 of 103
 EN1701

MATCH LINE-STA: 8+00 SEE SHEET U27.0



MATCH LINE-STA: 24+00 SEE SHEET U29.0

McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60

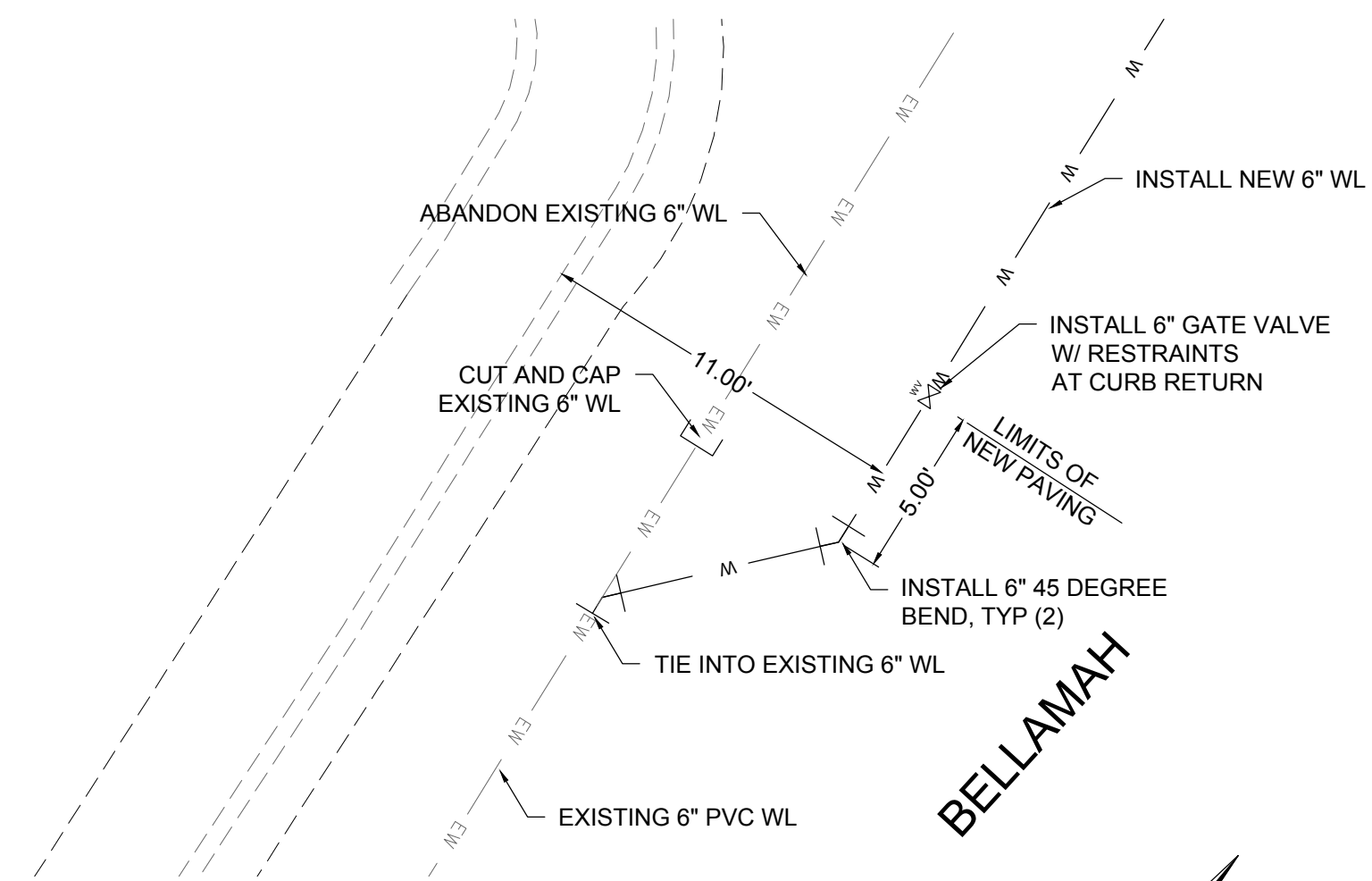


EXISTING UTILITY LEGEND

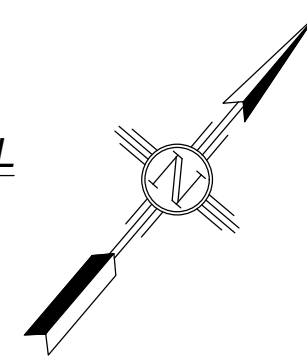
— EOHT — EOHT	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL	EXISTING OVER HEAD POWER LINE
— ES — ES	EXISTING SEWER
— EW — EW	EXISTING WATER
— EG — EG	EXISTING UNDERGROUND GAS
— ET — ET	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM	EXISTING OVER HEAD MULTIPLE

McKINLEY AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
16+49.67, 17.74 LT	3/4"	7.74'
16+51.91, 16.61 RT	3/4"	26.61'
16+99.18, 17.95 LT	3/4"	7.95'
17+06.27, 16.32 RT	3/4"	26.32'
17+60.46, 17.48 LT	3/4"	7.48'
17+73.34, 16.64 RT	3/4"	26.64'
18+22.81, 17.51 LT	3/4"	7.51'
18+37.41, 17.22 RT	3/4"	27.22'
18+81.62, 17.38 LT	3/4"	7.38'
19+01.92, 17.06 RT	3/4"	27.06'
19+35.90, 17.42 LT	3/4"	7.42'
19+63.68, 17.24 RT	3/4"	27.24'
19+91.17, 17.44 LT	3/4"	7.44'
20+26.40, 17.05 RT	3/4"	27.05'
20+48.70, 17.12 LT	3/4"	7.12'
20+89.75, 17.07 RT	3/4"	27.07'
21+14.58, 17.35 LT	3/4"	7.35'
21+57.42, 16.78 RT	3/4"	26.78'
21+76.72, 17.30 LT	3/4"	7.30'
22+25.37, 17.29 LT	3/4"	7.29'
22+32.30, 17.12 RT	3/4"	27.12'
22+86.02, 17.13 LT	3/4"	7.13'
23+58.56, 17.18 LT	3/4"	7.18'
23+77.56, 16.99 RT	3/4"	26.99'



McKINLEY / BELLAMAH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



McKINLEY AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
17+87.06, 21.26 LT	12.18'
21+35.86, 21.46 LT	10.89'
22+74.51, 21.16 RT	31.16'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

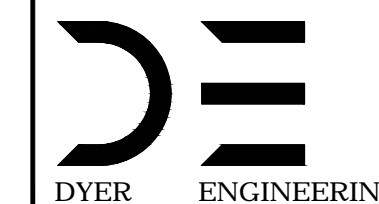
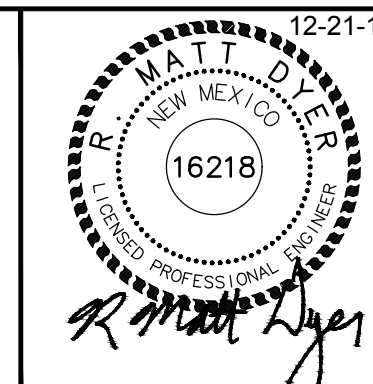
NEW MEXICO



Street Maintenance Program FY 2017

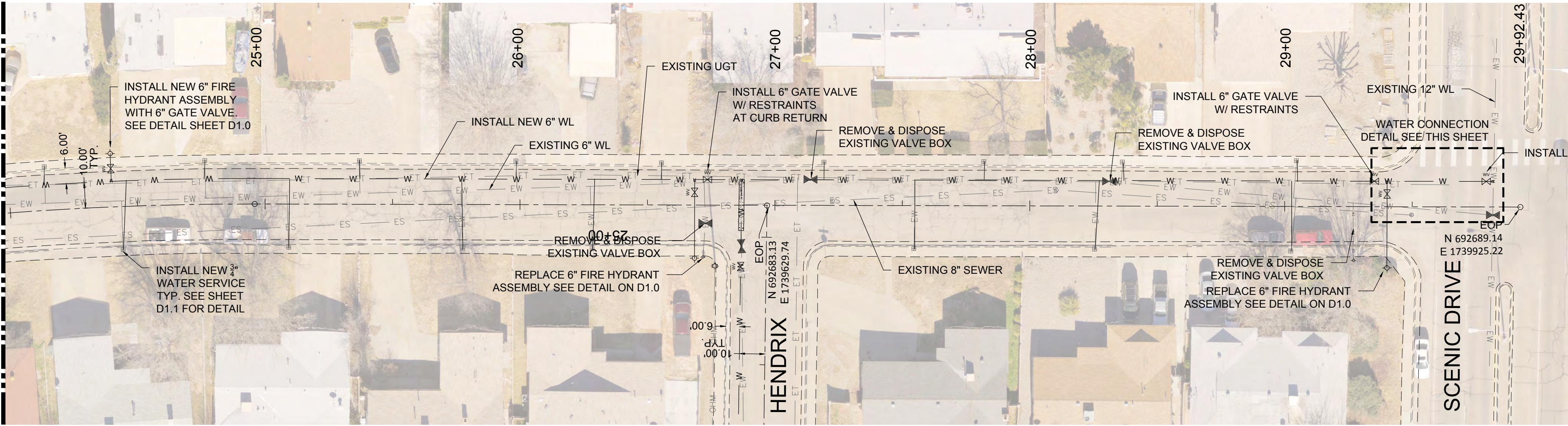
**McKINLEY AVENUE WATER LINE REPLACEMENT
PLAN STATION 16+00 TO 24+00**

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

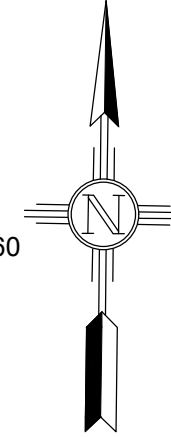


Public Works Bid No.: 2017-010	Sheet No.: U28.0
Drawn By: AD Designed By: AD	Sheet 93 of 103
Checked By: MD Approved By: MD	
Scale: Horiz.: Vert.: n/a	EN1701

MATCH LINE-STA: 24+00 SEE SHEET U28.0

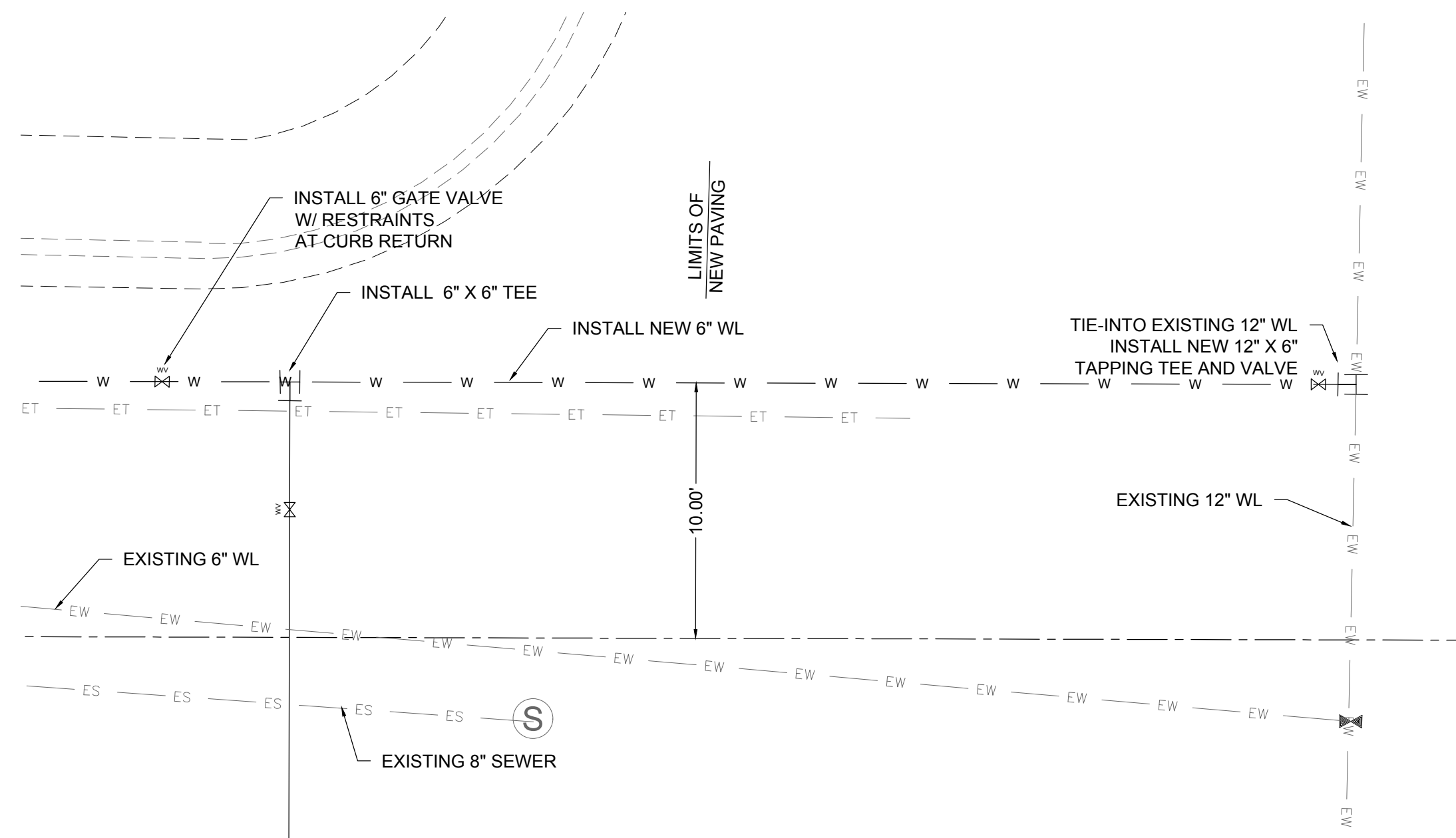


McKINLEY AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



McKINLEY / SCENIC TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10

McKINLEY AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
24+14.43, 17.07 LT	3/4"	7.07'
24+43.64, 16.91 RT	3/4"	26.91'
24+76.41, 17.44 LT	3/4"	7.44'
25+09.37, 16.93 RT	3/4"	26.93'
25+36.83, 17.32 LT	3/4"	7.32'
25+77.35, 17.03 RT	3/4"	27.03'
25+98.42, 17.07 LT	3/4"	7.07'
26+28.20, 17.22 RT	3/4"	27.22'
26+55.24, 16.90 LT	3/4"	6.90'
27+19.09, 16.75 LT	3/4"	6.75'
27+54.63, 16.67 RT	3/4"	26.67'
27+81.95, 17.16 LT	3/4"	7.16'
28+25.72, 17.12 RT	3/4"	27.12'
28+36.53, 17.04 LT	3/4"	7.04'
29+04.71, 18.04 LT	3/4"	8.04'
29+02.75, 17.27 RT	3/4"	27.27'

McKINLEY AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
24+39.19, 20.90 LT	11.24'
26+71.89, 19.04 RT	29.04'
29+27.10, 20.91 RT	30.91'

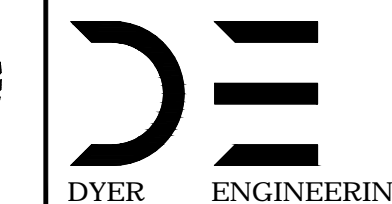
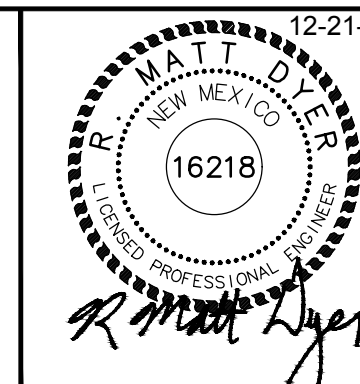
REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD



Street Maintenance Program FY 2017

**McKINLEY AVENUE WATER LINE REPLACEMENT
PLAN STATION 24+00 TO 29+83**

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD

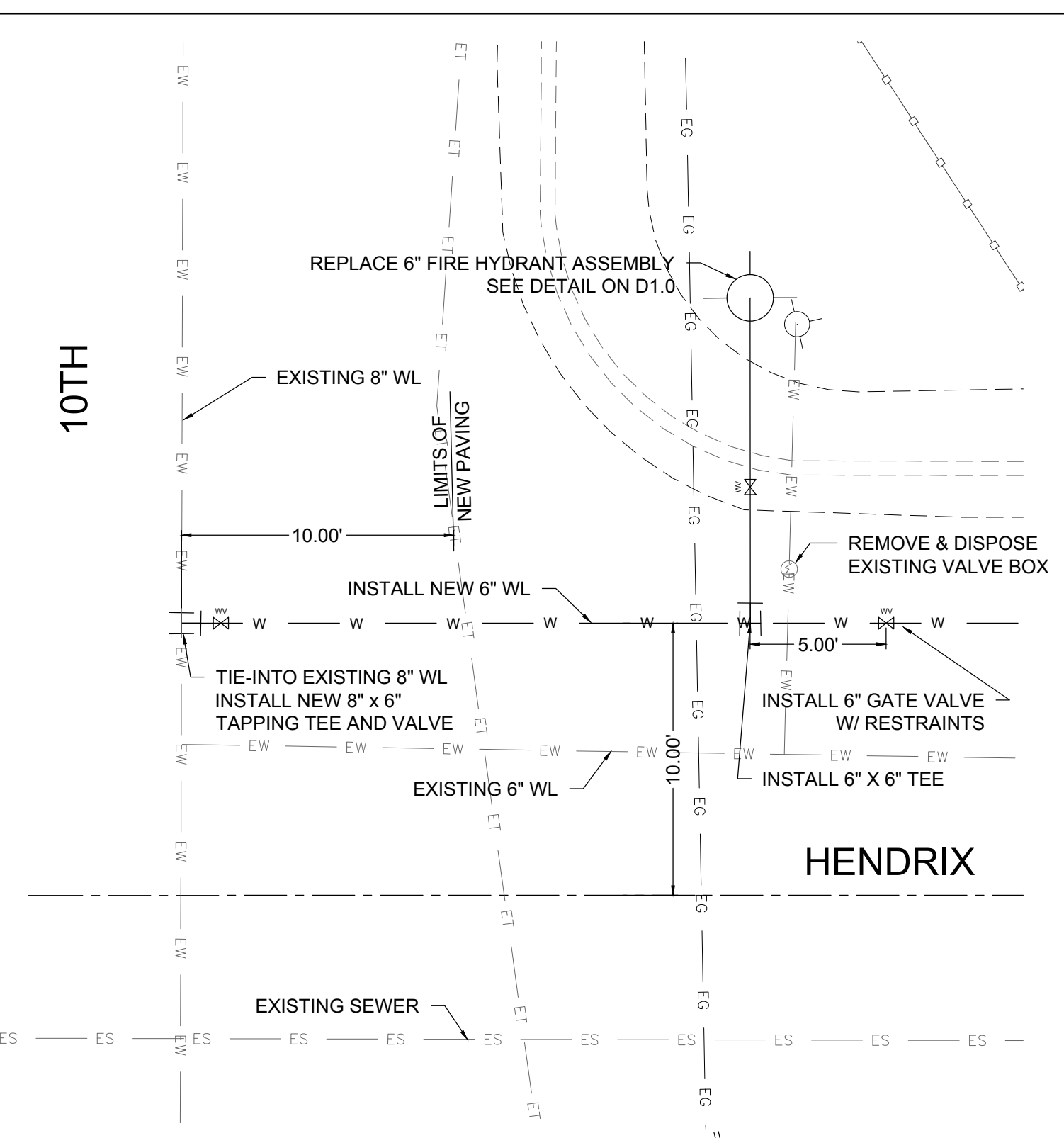
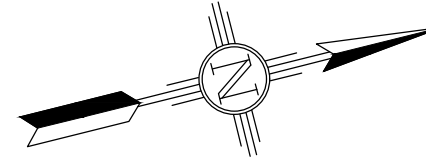
Scale: Horiz.: Vert.: n/a

Sheet No.: U29.0
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 EN1701

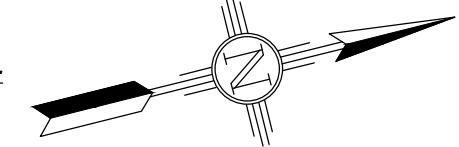


MATCH LINE-STA: 8+00 SEE SHEET U31.0

HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



HENDRIX / 10TH TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



EXISTING UTILITY LEGEND

— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

HENDRIX AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
0+69.49, 20.46 RT	3/4"	30.46'
0+71.97, 14.45 LT	3/4"	4.45'
1+49.33, 19.88 RT	3/4"	29.88'
1+55.30, 14.87 LT	3/4"	4.87'
2+10.36, 15.18 LT	3/4"	5.18'
2+14.19, 19.45 RT	3/4"	29.45'
2+68.06, 19.84 RT	3/4"	29.84'
2+70.54, 14.88 LT	3/4"	4.88'
3+29.88, 15.18 LT	3/4"	5.18'
3+30.57, 19.33 RT	3/4"	29.33'
3+85.80, 15.85 LT	3/4"	5.85'
3+93.71, 18.93 RT	3/4"	28.93'
4+41.82, 16.39 LT	3/4"	6.39'
4+67.44, 19.02 RT	3/4"	29.02'
4+98.84, 16.66 LT	3/4"	6.66'
5+37.90, 18.32 RT	3/4"	28.32'
5+53.24, 16.84 LT	3/4"	6.84'
6+04.95, 17.76 RT	3/4"	27.76'
6+15.28, 17.34 LT	3/4"	7.34'
6+67.75, 17.63 RT	3/4"	27.63'
6+73.47, 17.08 LT	3/4"	7.08'
7+25.02, 17.67 RT	3/4"	27.67'
7+34.16, 17.03 LT	3/4"	7.03'
7+84.35, 17.72 RT	3/4"	27.72'
7+93.29, 17.02 LT	3/4"	7.02'

HENDRIX AVE. 6" FIRE HYDRANT ASSEMBLY

STA. AND OFFSET	LENGTH
0+28.29, 21.00 LT	11.00'
2+92.58, 21.19 RT	31.23'
6+30.38, 20.96 RT	30.96'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMO M00000 000 Ca00000 Ca00 2 da000

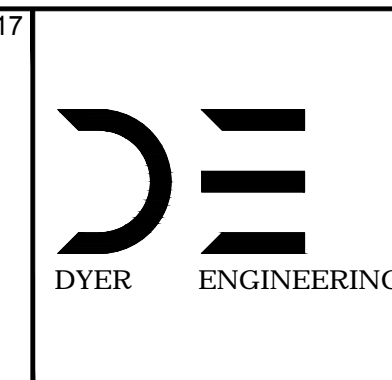
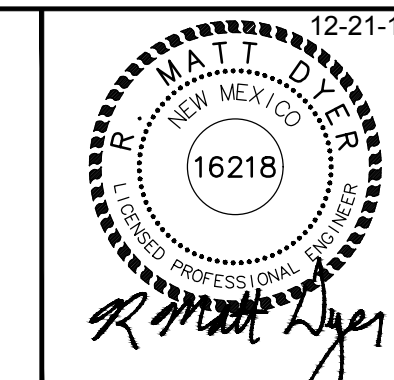
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Street Maintenance Program FY 2017
HENDRIX AVENUE WATER LINE REPLACEMENT
PLAN STATION 0+10 TO 8+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

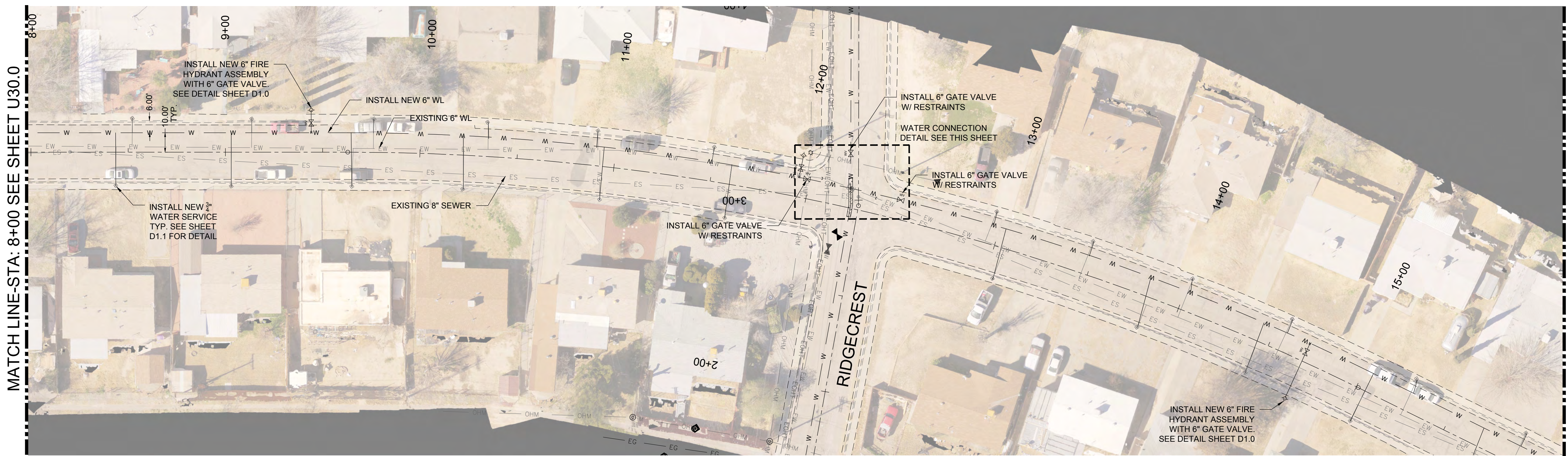


Public Works Bid No.: 2017-010

Drawn By: AD Designed By: AD

Checked By: MD Approved By: MD

Scale: Horiz.: Vert.: n/a

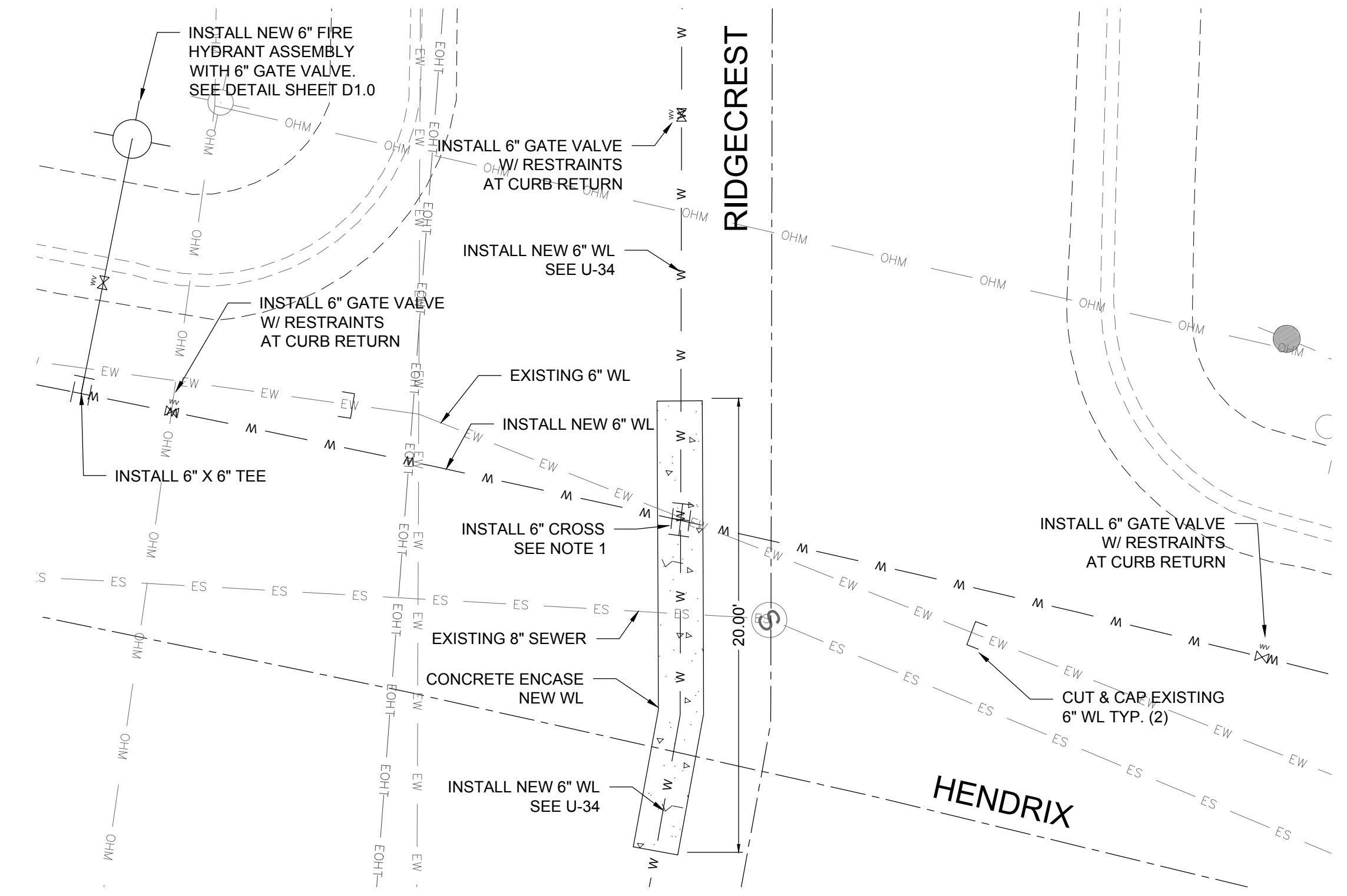
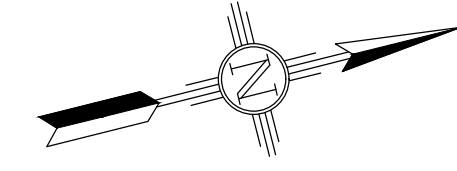


NOTES:
 1. PULL PIPE JOINTS WITHIN MANUFACTURER'S TOLERANCE TO ACHIEVE PROPER ALIGNMENT FOR CROSS.

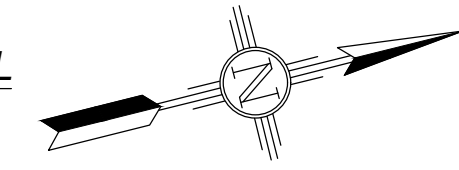
MATCH LINE-STA: 8+00 SEE SHEET U30.0

MATCH LINE-STA: 16+00 SEE SHEET U32.0

HENDRIX AVENUE
 FULL SCALE: 1:30 HALF SCALE 1:60



HENDRIX / RIDGECREST TIE-IN DETAIL
 FULL SCALE: 1:5 HALF SCALE 1:10



EXISTING UTILITY LEGEND		
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE	
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE	
— ES — ES —	EXISTING SEWER	
— EW — EW —	EXISTING WATER	
— EG — EG —	EXISTING UNDERGROUND GAS	
— ET — ET —	EXISTING UNDERGROUND TELEPHONE	
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE	

HENDRIX AVE. WATER SERVICES			
STA. AND OFFSET	SIZE	LENGTH	
8+44.84, 17.20 RT	3/4"	27.20'	
8+53.13, 16.95 LT	3/4"	6.95'	
9+04.00, 17.54 RT	3/4"	27.54'	
9+14.21, 16.83 LT	3/4"	6.83'	
9+65.71, 17.78 RT	3/4"	27.78'	
9+76.02, 17.21 LT	3/4"	7.21'	
10+23.29, 17.52 RT	3/4"	27.52'	
10+34.15, 17.48 LT	3/4"	7.48'	
10+89.55, 18.18 LT	3/4"	8.18'	
10+94.49, 17.12 RT	3/4"	27.12'	
11+49.47, 17.70 LT	3/4"	7.70'	
11+60.35, 17.48 RT	3/4"	27.48'	
12+96.18, 16.92 LT	3/4"	6.92'	
13+03.79, 16.81 RT	3/4"	26.81'	
13+47.68, 17.44 LT	3/4"	7.44'	
13+83.60, 16.70 RT	3/4"	26.70'	
14+01.33, 16.63 LT	3/4"	6.63'	
14+44.64, 17.24 RT	3/4"	27.24'	
14+55.76, 17.52 LT	3/4"	7.52'	
15+05.27, 16.86 RT	3/4"	26.86'	
15+26.38, 17.18 LT	3/4"	7.18'	
15+70.22, 17.29 RT	3/4"	27.29'	
15+88.91, 17.10 LT	3/4"	7.10'	

HENDRIX AVE. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
9+44.08, 21.61 LT	11.61'
11+95.41, 22.73 LT	11.81'
14+69.24, 21.19 RT	31.79'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

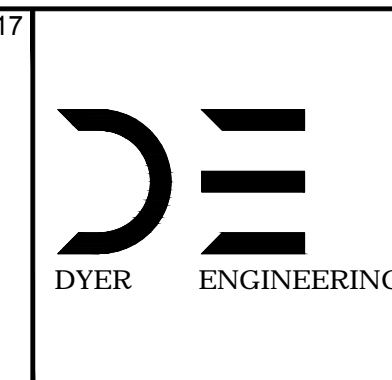
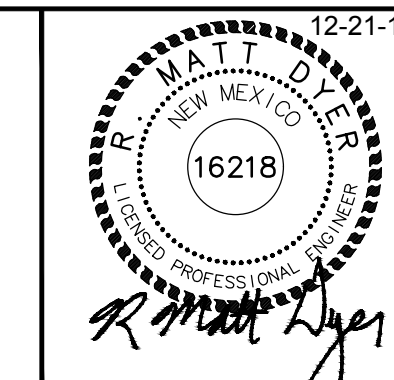
12-21-17
 16218
 MATT DYER
 PROFESSIONAL ENGINEER
 NEW MEXICO



Street Maintenance Program FY 2017

HENDRIX AVENUE WATER LINE REPLACEMENT PLAN STATION 8+00 TO 16+00

CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.: 2017-010
 Drawn By: AD Designed By: AD
 Checked By: MD Approved By: MD

Scale: Horiz.: Vert.: n/a

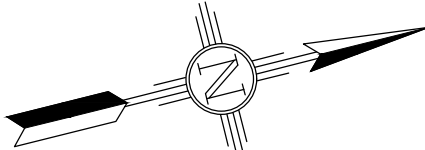
Sheet No.: U31.0
 Sheet 96 of 103
 EN1701



MATCH LINE-STA: 16+00 SEE SHEET U31.0

MATCH LINE-STA: 23+00 SEE SHEET U33.0

HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE

HENDRIX AVE. WATER SERVICES

STA. AND OFFSET	SIZE	LENGTH
16+18.81, 16.92 RT	3/4"	26.92'
16+41.32, 17.18 LT	3/4"	7.18'
16+94.54, 17.00 RT	3/4"	27.00'
17+03.22, 16.93 LT	3/4"	6.93'
17+46.71, 17.27 RT	3/4"	27.27'
17+50.56, 17.20 RT	3/4"	27.20'
17+53.19, 17.52 RT	3/4"	27.52'
17+56.59, 17.45 RT	3/4"	27.45'
17+63.24, 17.15 LT	3/4"	7.15'
18+11.67, 16.82 RT	3/4"	26.82'
18+23.30, 17.00 LT	3/4"	7.00'
18+78.29, 17.08 LT	3/4"	7.08'
18+80.76, 17.15 RT	3/4"	27.15'
19+28.69, 16.93 RT	3/4"	26.93'
19+42.26, 17.15 LT	3/4"	7.15'
19+93.14, 17.17 LT	3/4"	7.17'
19+99.19, 17.08 RT	3/4"	27.08'
20+53.27, 17.02 LT	3/4"	7.02'
20+62.25, 16.92 RT	3/4"	26.92'
21+12.29, 16.79 RT	3/4"	26.79'
21+52.50, 17.35 LT	3/4"	7.35'
21+69.38, 16.67 RT	3/4"	26.67'
22+19.78, 17.16 RT	3/4"	27.16'
22+45.54, 17.29 LT	3/4"	7.29'
22+76.81, 17.70 RT	3/4"	27.70'

HENDRIX AVE. 6" FIRE HYDRANT ASSEMBLY

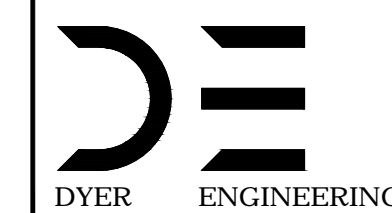
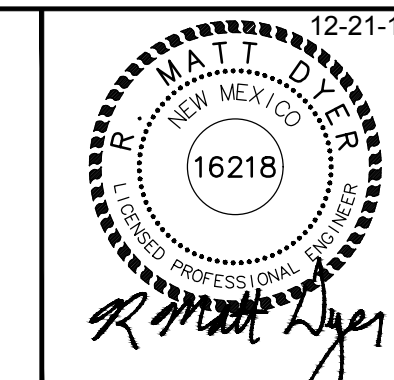
STA. AND OFFSET	LENGTH
17+79.57, 22.47 RT	31.39'
21+18.75, 20.22 LT	10.22'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMO MOCOC OOO CaOOO OOO CaOO 2 daOOO
 OOOOOO OOOO OOOO OOOO OOOO
 OOOO OOOO OOOO OOOO
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 OOOO OOOO OOOO OOOO



Street Maintenance Program FY 2017
HENDRIX AVENUE WATER LINE REPLACEMENT
PLAN STATION 16+00 TO 23+00
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

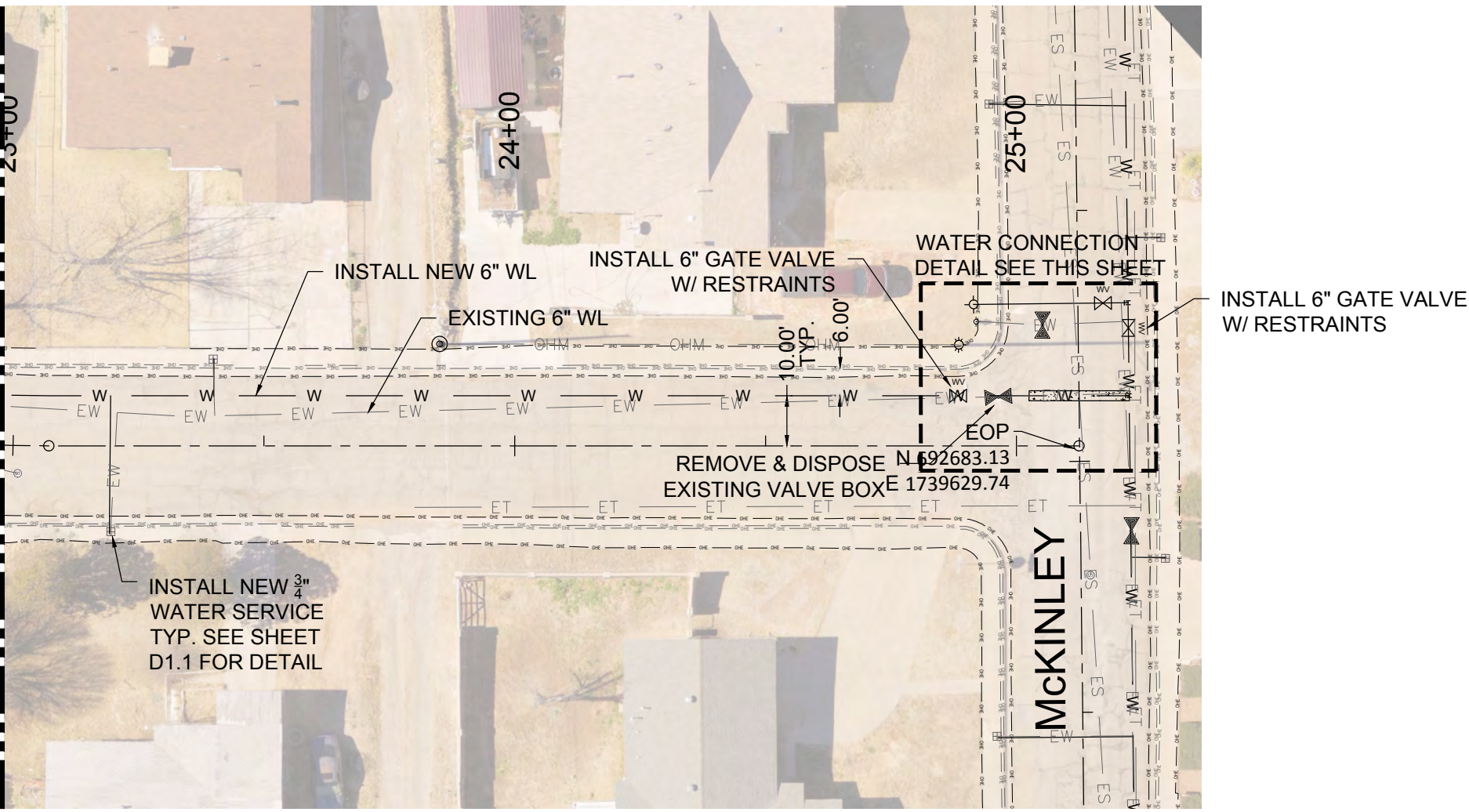


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD

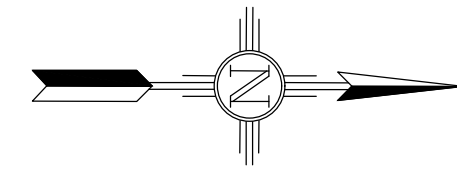
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Sheet No.:
U32.0
 Sheet 97 of 103
 EN1701

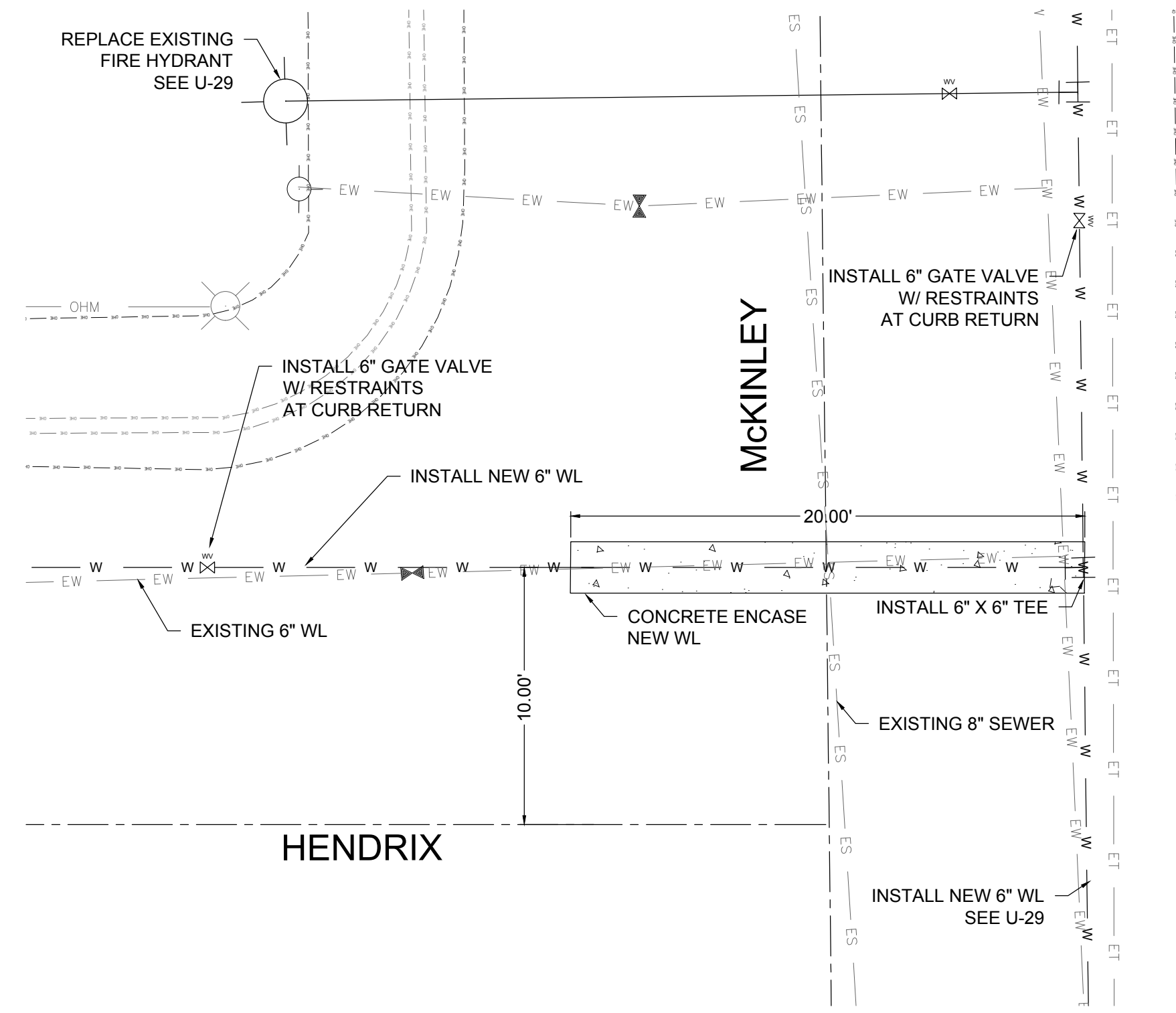
MATCH LINE-STA: 23+00 SEE SHEET U32.0



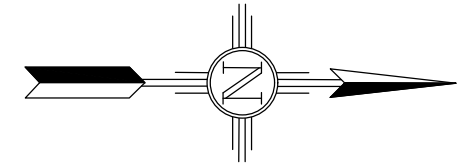
HENDRIX AVENUE
FULL SCALE: 1:30 HALF SCALE 1:60



EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



HENDRIX / MCKINLEY TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



HENDRIX AVE. WATER SERVICES		
STA. AND OFFSET	SIZE	LENGTH
23+19.55, 16.91 RT	3/4"	26.91'
23+39.72, 17.63 LT	3/4"	7.63'

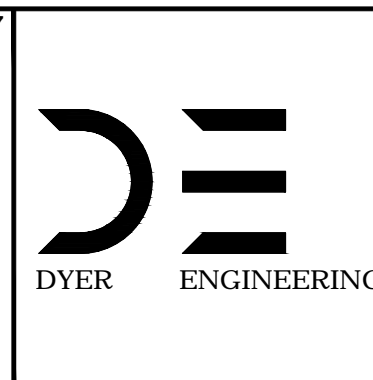
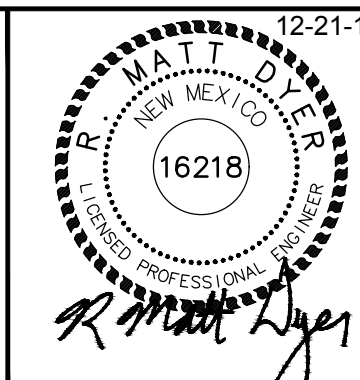
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1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

NMOC

 PROFESSIONAL ENGINEER

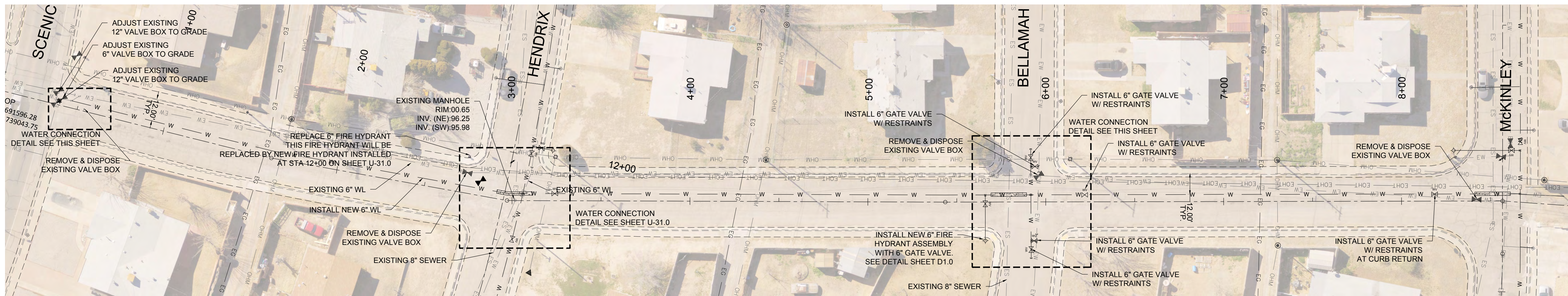


Street Maintenance Program FY 2017
HENDRIX AVENUE WATER LINE REPLACEMENT
PLAN STATION 23+00 TO 25+23
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT

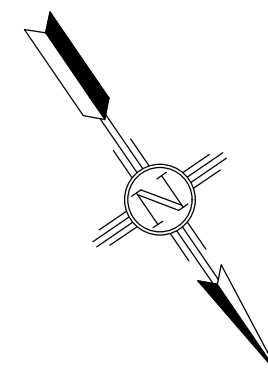


Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

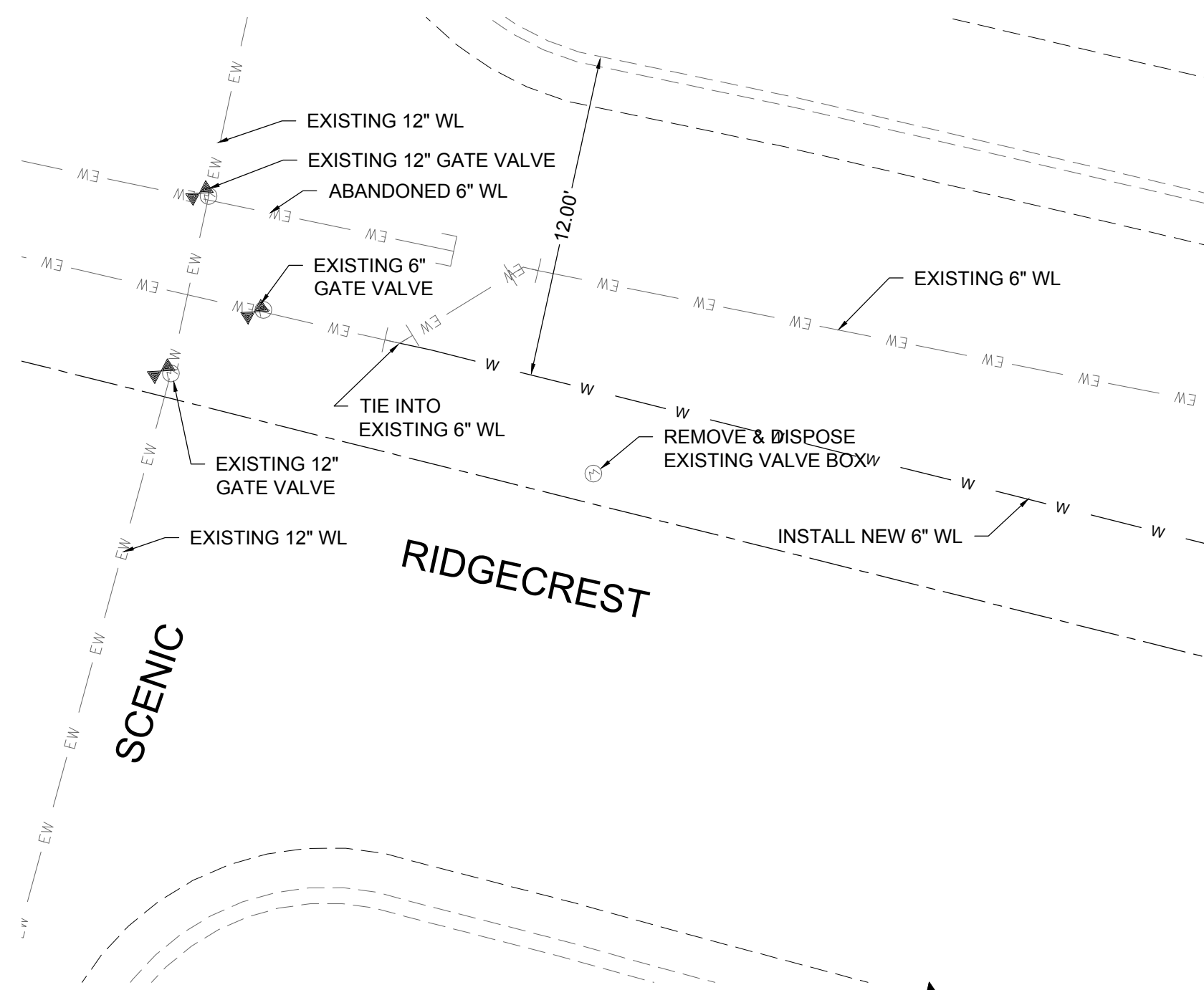
Sheet No.: **U33.0**
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 EN1701



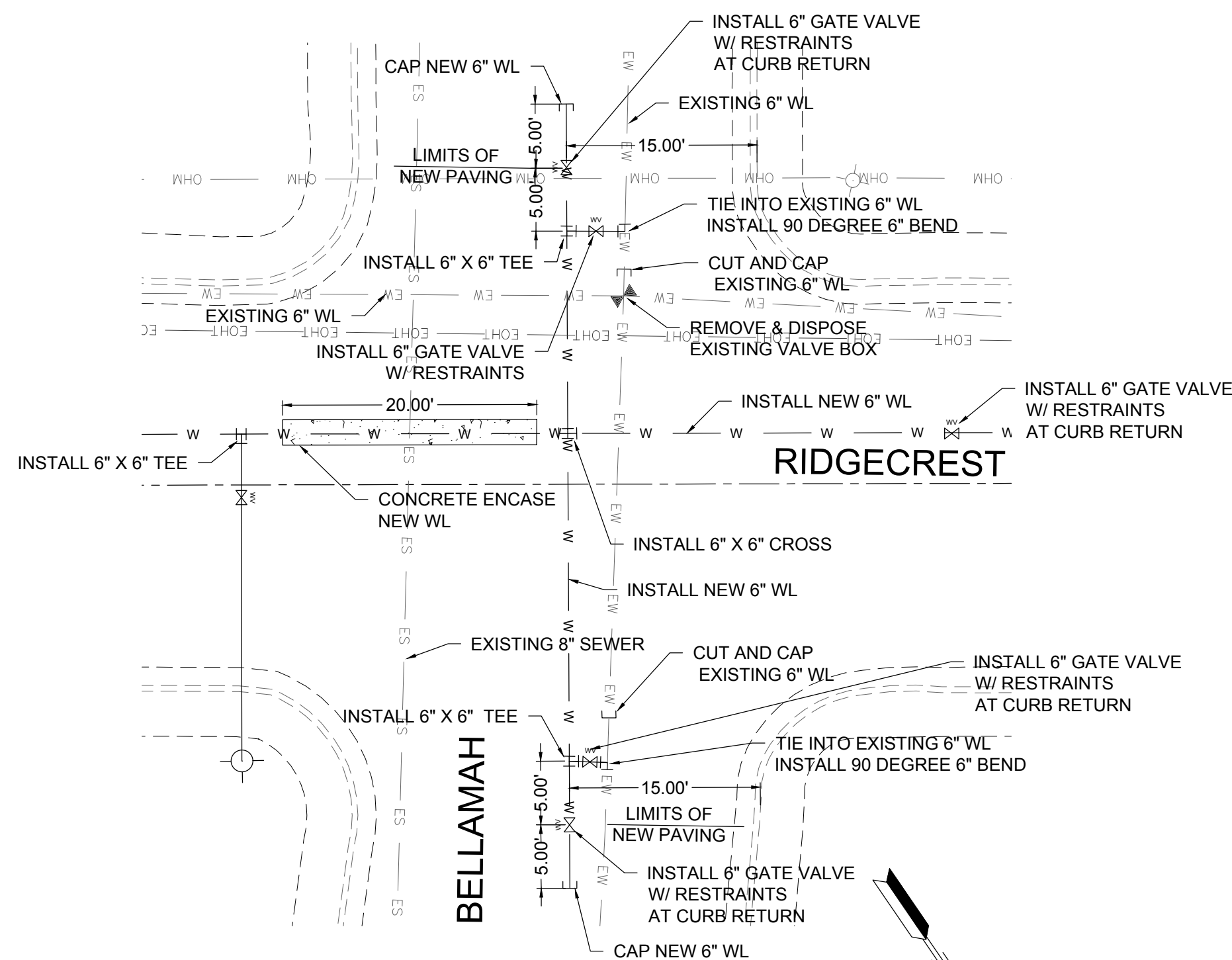
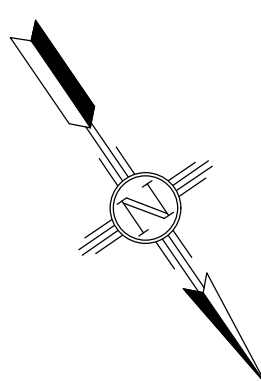
RIDGECREST DRIVE
FULL SCALE: 1:30 HALF SCALE 1:60



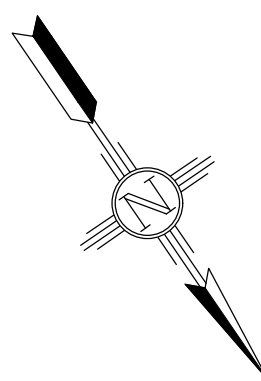
EXISTING UTILITY LEGEND	
— EOHT — EOHT —	EXISTING OVER HEAD TELEPHONE
— OHPL — OHPL —	EXISTING OVER HEAD POWER LINE
— ES — ES —	EXISTING SEWER
— EW — EW —	EXISTING WATER
— EG — EG —	EXISTING UNDERGROUND GAS
— ET — ET —	EXISTING UNDERGROUND TELEPHONE
— OHM — OHM —	EXISTING OVER HEAD MULTIPLE



RIDGECREST / SCENIC TIE-IN DETAIL
FULL SCALE: 1:5 HALF SCALE 1:10



RIDGECREST / BELLAMAH TIE-IN DETAIL
FULL SCALE: 1:10 HALF SCALE 1:20

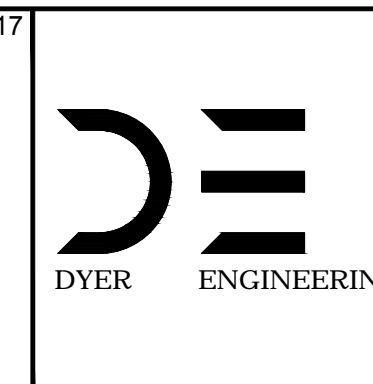
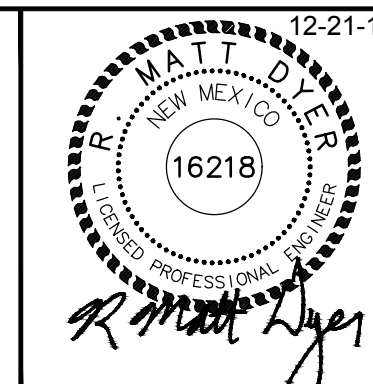


RIDGECREST DR. 6" FIRE HYDRANT ASSEMBLY	
STA. AND OFFSET	LENGTH
5+65.85, 21.75 RT	25.75'

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT - 1	MD
0	9-08-17	ISSUED FOR CONSTRUCTION	MD

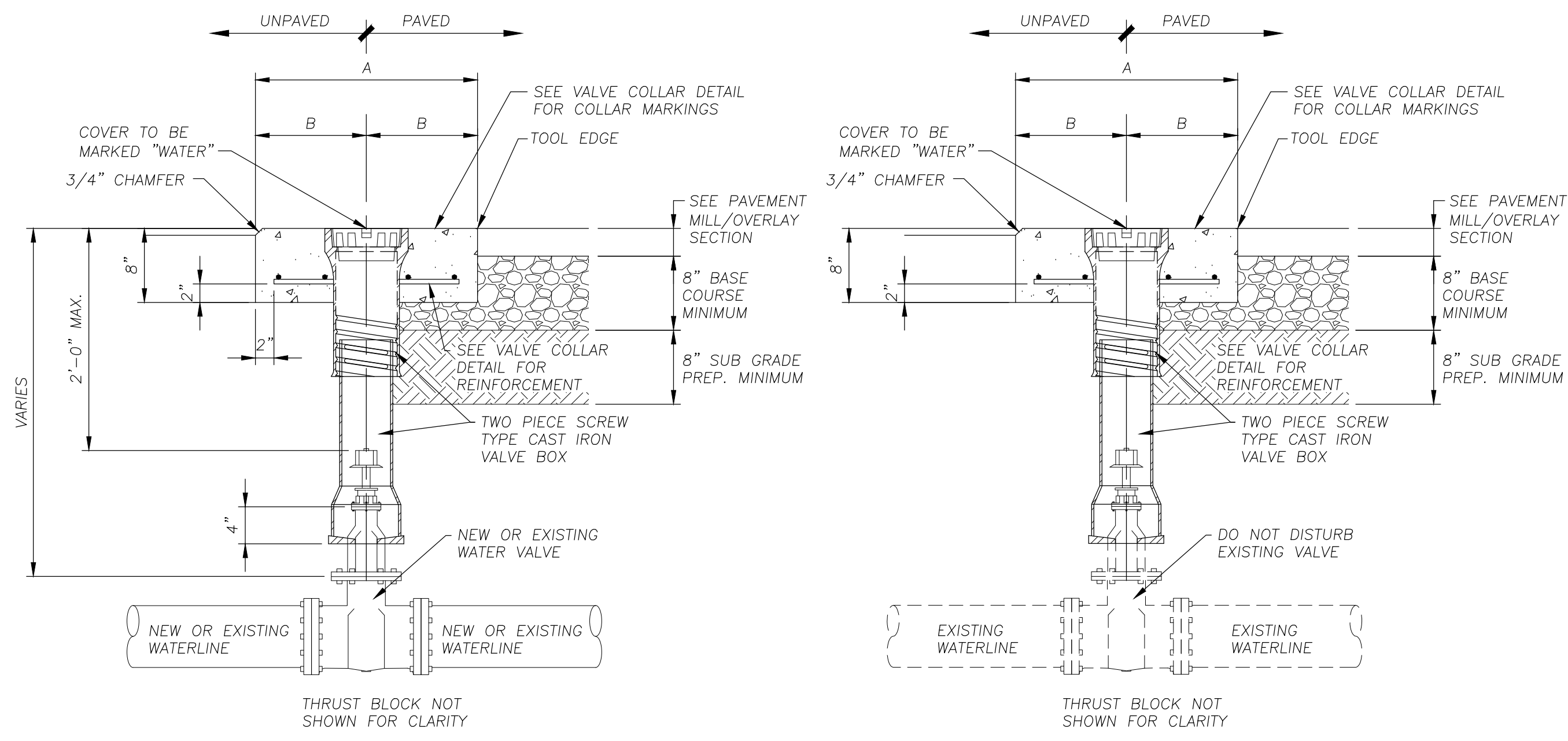


Street Maintenance Program FY 2017
RIDGECREST DRIVE WATER LINE REPLACEMENT
PLAN STATION 0+38 TO 8+67
 CITY OF ALAMOGORDO, NEW MEXICO, ENGINEERING DEPARTMENT



Public Works Bid No.:	2017-010
Drawn By:	AD
Designed By:	AD
Checked By:	MD
Approved By:	MD
Scale: Horiz.:	Vert.: n/a

Sheet No.:	U34.0
Sheet	99 of 103
EN1701	



Valve Box Detail

NO SCALE

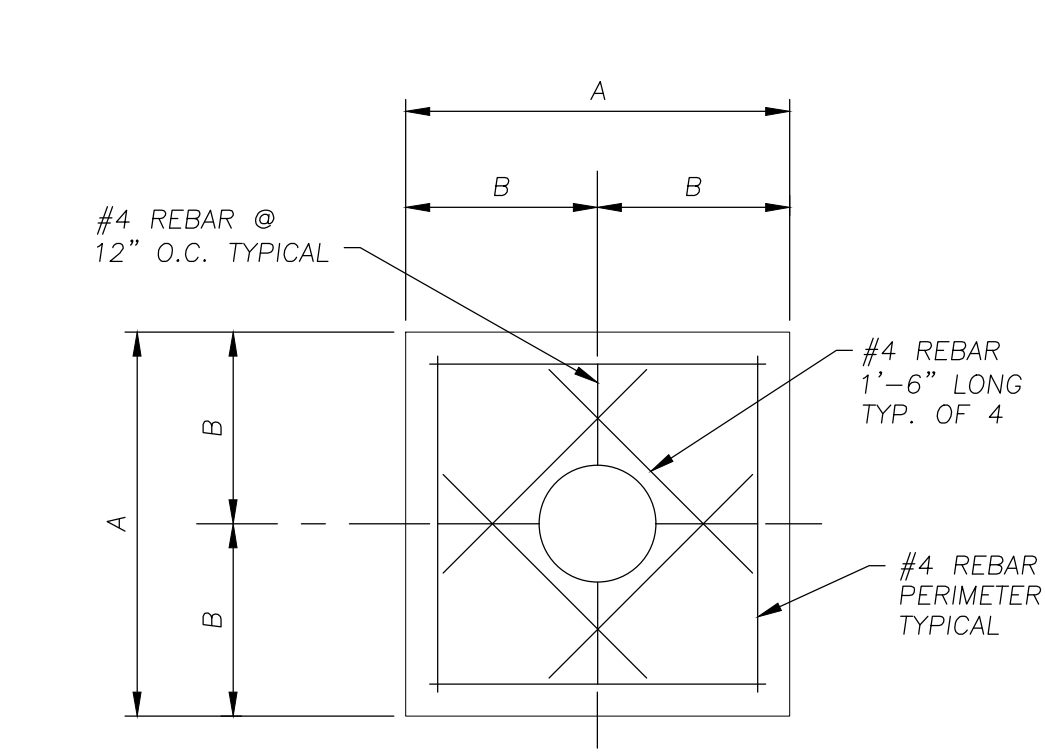
Adjust Valve Box Detail

NO SCALE

CONCRETE COLLAR TABLE		
TYPE	PAVED	UNPAVED
A	2'-0"	4'-0"
B	1'-0"	2'-0"

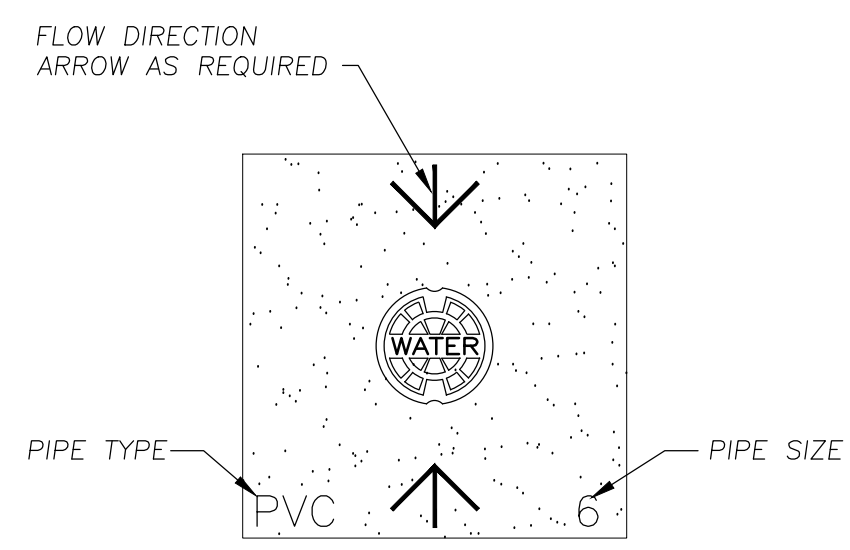
GENERAL NOTES:

- SEE TECHNICAL SPECIFICATION FOR BACKFILL MATERIAL SPECIFICATIONS AND COMPACTION REQUIREMENTS.
- SEE SECTION 2, STREET STANDARDS FOR PAVEMENT, BASE COURSE COURSE AND SUB-GRADE PREP. REQUIREMENTS.
- SIDES OF CONCRETE COLLAR TOP SHALL BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.



Valve Box Collar Marking Detail

NO SCALE

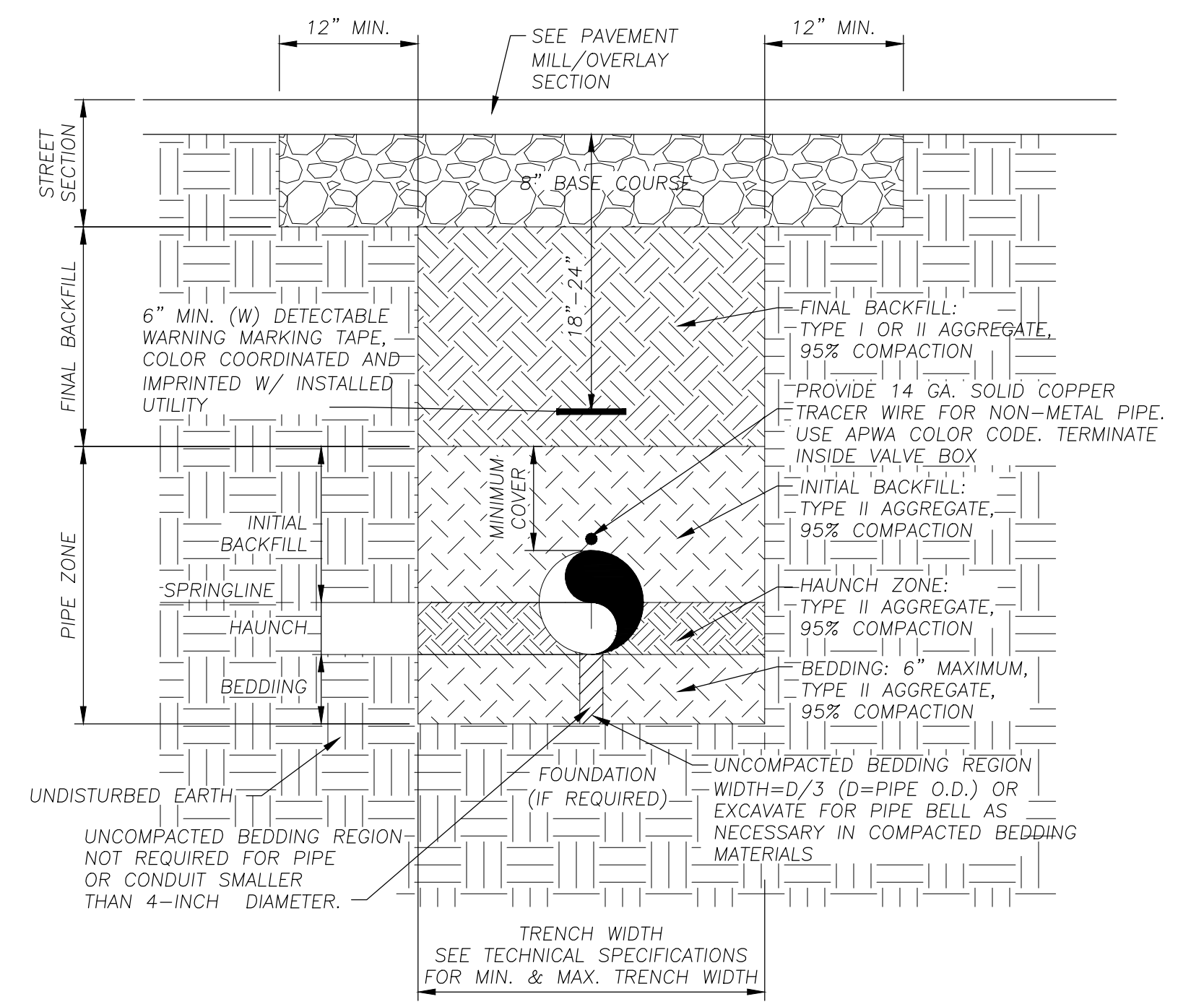


Valve Box Collar Marking Detail

NO SCALE

GENERAL NOTES:

- SIDES OF CONCRETE COLLAR TOP SHALL BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.
- SCRIBE CONCRETE WITH LINE DIRECTIONAL ARROWS, PIPE SIZE AND PIPE TYPE.
- TEXT SIZE SHALL BE 4-INCHES TALL AND SCORED 3/8" DEEP IN A NEAT AND CONSISTENT MANNER, TYPICAL.



Utility Trench Cross-Section

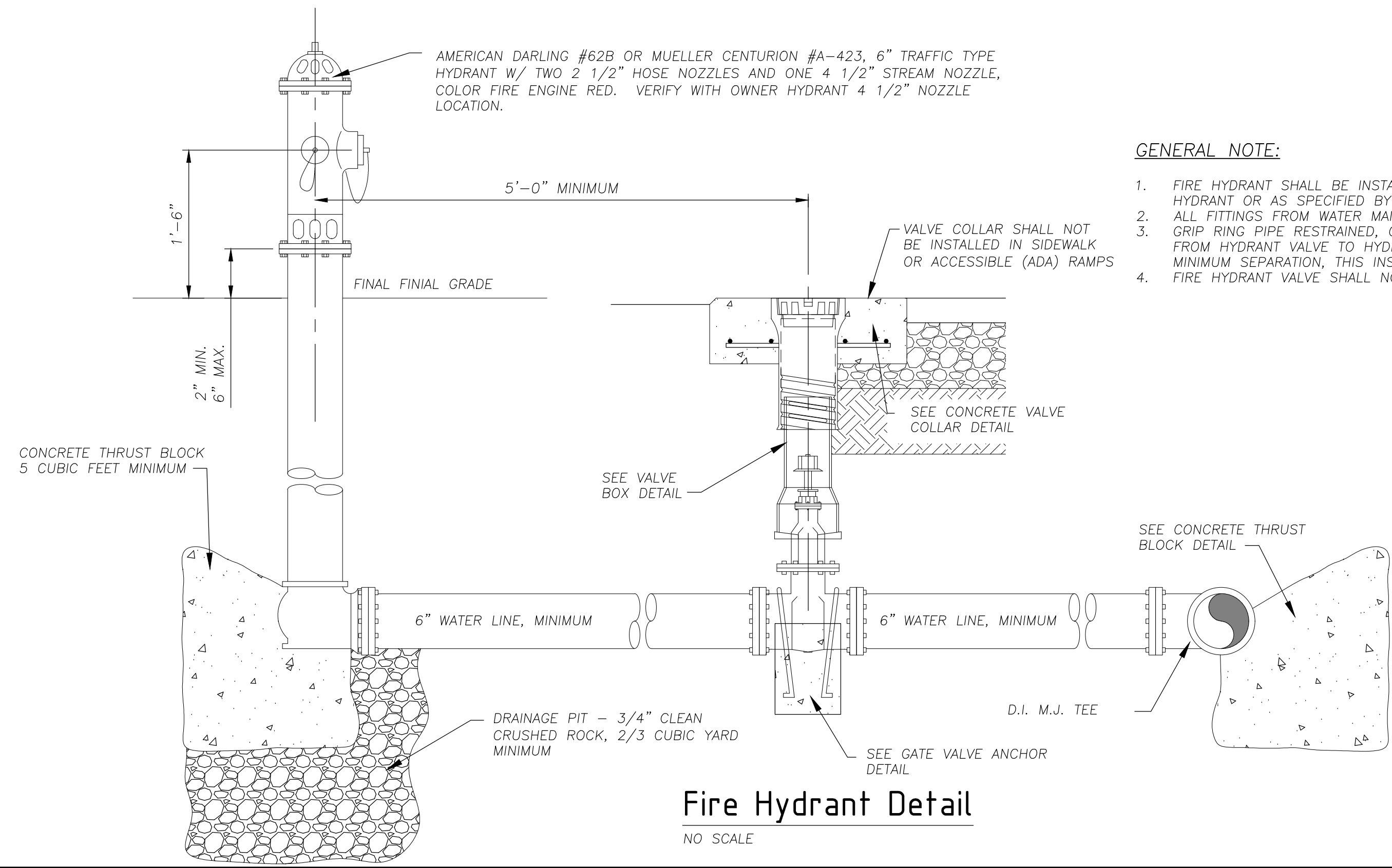
No Scale

TYPE II AGGREGATE BASE BACKFILL GRADATION AND REQUIREMENTS

SIEVE SIZE	PERCENT OF DRY WEIGHT PASSING SIEVE
1-INCH	100
3/4-INCH	85 - 95
No. 4	40 - 70
No. 10	35 - 45
No. 16	25 - 35
No. 200	6 - 18
PLASTIC INDEX	12 MAXIMUM
LIQUID LIMITS	35 MAXIMUM
FRACTURED FACES	70% MINIMUM
TOTAL AVAILABLE WATER SOLUBLE SULFATES	35 MAXIMUM

GENERAL NOTES:

- SEE TECHNICAL SPECIFICATIONS FOR BACKFILL MATERIAL SPECIFICATIONS AND COMPACTION REQUIREMENTS.
- NATIVE SOIL SHALL NOT BE USED AS BACKFILL MATERIAL WITHIN THE LIMITS OF ANY ROADWAY.
- COMPACTION OF THE PIPE BEDDING MAY BE ACCOMPLISHED USING MECHANICAL TAMPING DEVICES PRIOR TO PLACEMENT OF THE PIPE OR CONDUIT. MINIMUM EXCAVATION FOR PIPE BELLS MAY BE ACCOMPLISHED AS NECESSARY TO ALLOW PROPER ALIGNMENT AND ELEVATION OF THE PIPE OR CONDUIT.
- COMPACTION IN THE HAUNCH ZONE SHALL BE COMPLETED BY HAND WITH TAMPERS OR SUITABLE POWER COMPACTORS IN MAXIMUM LIFTS OF SIX (6) INCHES. TAMPERS SHALL NOT CONTACT THE PIPE OR CONDUITS DURING THE TAMPING PROCESS.
- THE CONTRACTOR SHALL NOT EMPLOY THE USE OF IMPACT TAMPERS DIRECTLY ABOVE THE PIPE OR CONDUIT UNTIL THE FULL LOOSE LAYER BACKFILL DEPTH ABOVE THE PIPE IS OBTAINED
- TRENCHING AND EXCAVATION OPERATIONS SHALL CONFORM TO THE CURRENT FEDERAL, STATE AND LOCAL SAFETY ORDINANCES INCLUDING ALL O.S.H.A. REGULATIONS.

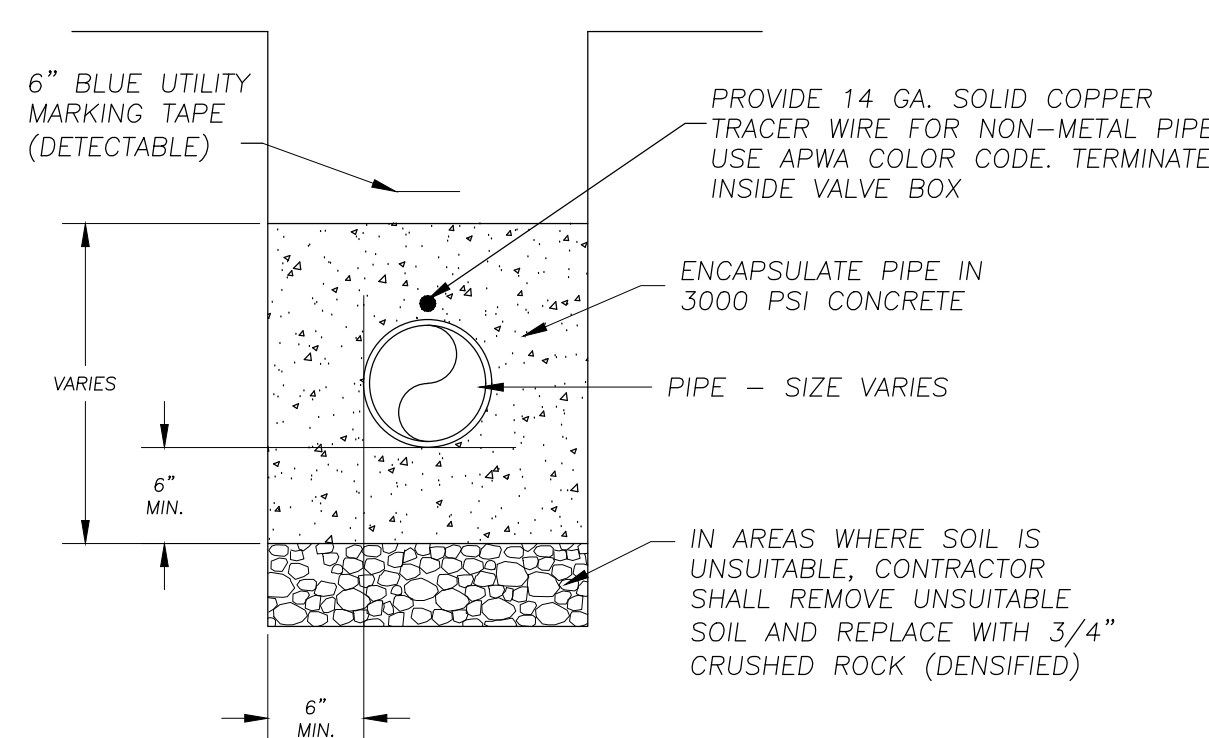


Fire Hydrant Detail

NO SCALE

GENERAL NOTE:

- FIRE HYDRANT SHALL BE INSTALLED 6- FEET FROM BACK OF CURB TO CENTER OF HYDRANT OR AS SPECIFIED BY ENGINEER.
- ALL FITTINGS FROM WATER MAIN LINE TO FIRE HYDRANT SHALL BE M.J. FITTINGS.
- GRIP RINGS PIPE RESTRAINED, OR PRE-APPROVED EQUAL, SHALL BE INSTALLED ON PIPE FROM HYDRANT VALVE TO HYDRANT BOOT WHEN VALVE IS LOCATED WITH-IN THE 5- FEET MINIMUM SEPARATION, THIS INSTALLATION MUST BE PRE-APPROVED BY ENGINEER.
- FIRE HYDRANT VALVE SHALL NOT BE LOCATED IN THE CURB OR THE GUTTER.



Pipe Concrete Encasement

NO SCALE

REV. No.	DATE	DESCRIPTION	APPROVED

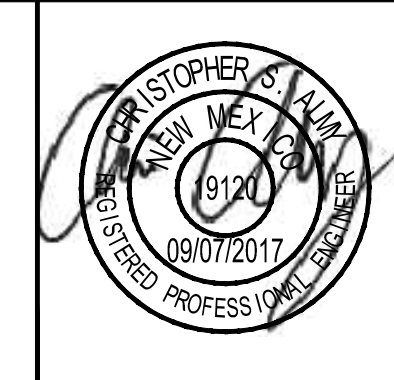
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY2017

Miscellaneous Details

ENGINEERING DEPARTMENT CITY OF ALAMOGORDO NEW MEXICO

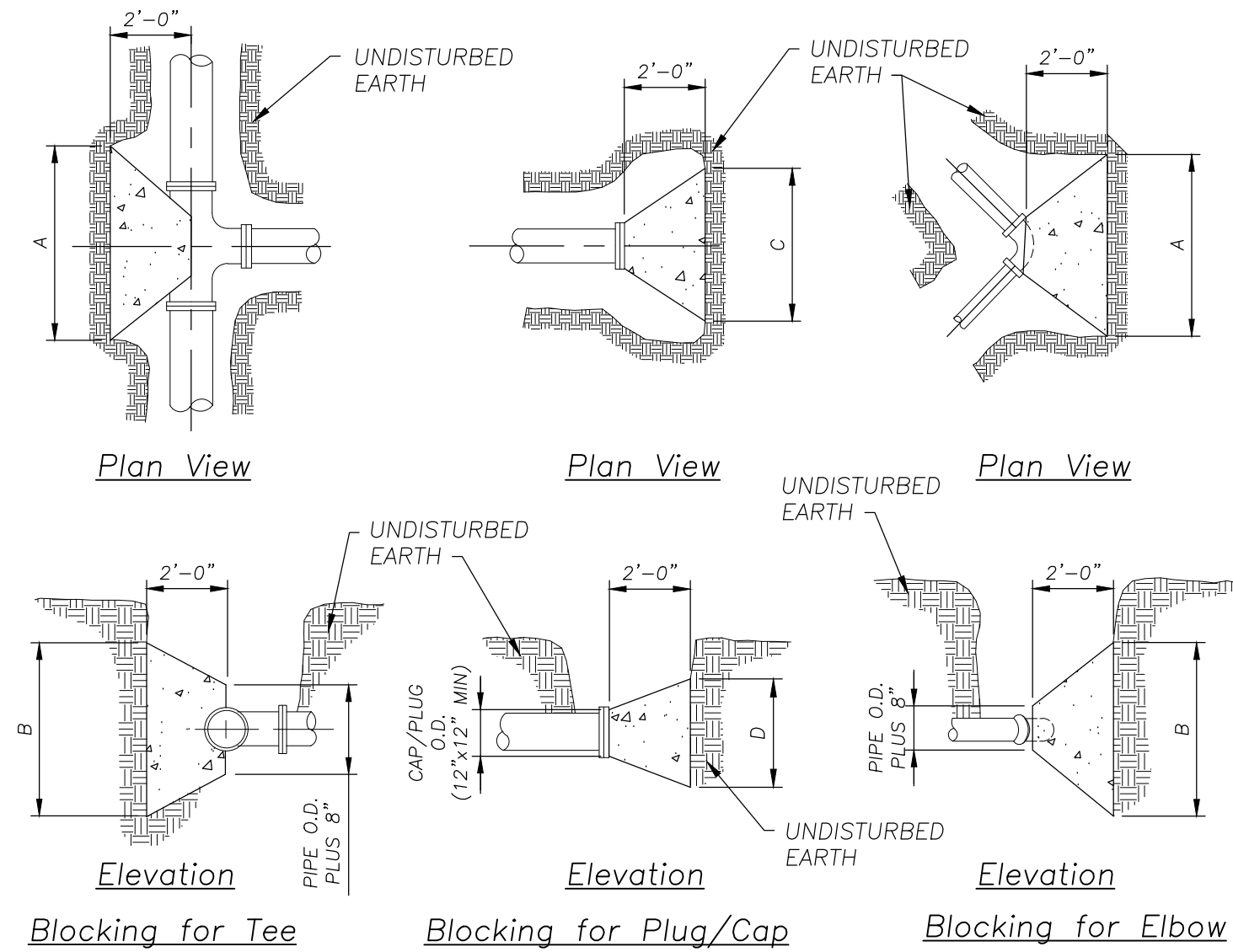


OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE) (575) 524-0482 (FAX)

Public Works Bid No.: **2017-010**
 Drawn By: **GG** Designed By: **GG**
 Checked By: **CA** Approved By: **CA**

Scale: Horiz.: 1" = .2154' Vert.: N/A

Sheet No.: **D1.0**
 Sheet 100 of 103
 EN1701



PIPE SIZE	TEE, CAP, PLUG, ELBOW ANGLE	A	B	C	D	PIPE SIZE	TEE, CAP, PLUG, ELBOW ANGLE	A	B	C	D
4"	TEE OR CAP/PLUG	2'	1'	-	-	10"	TEE OR CAP/PLUG	3'	3'	-	-
4"	90° 45'	-	-	2'	2'	10"	90°	-	-	3'-6"	3'-6"
4"	22 1/2° 11 1/4'	-	-	2'	2'	10"	45°	-	-	3'	3'
6"	TEE OR CAP/PLUG	2'	2'	-	-	10"	22 1/2° 11 1/4'	-	-	2'	2'
6"	90° 45'	-	-	2'	2'	12"	TEE OR CAP/PLUG	3'-6"	3'-6"	-	-
6"	22 1/2° 11 1/4'	-	-	2'	2'	12"	90°	-	-	4'	4'
8"	TEE OR CAP/PLUG	3'	3'	-	-	12"	45°	-	-	3'-6"	3'-6"
8"	90°	-	-	3'	3'	12"	22 1/2° 11 1/4'	-	-	2'	2'
8"	45°	-	-	2'	2'	14"	TEE OR CAP/PLUG	4'	4'	-	-
8"	22 1/2° 11 1/4'	-	-	2'	2'	14"	90°	-	-	5'	5'
						14"	45°	-	-	3'-6"	3'-6"
						14"	22 1/2° 11 1/4'	-	-	3'	3'

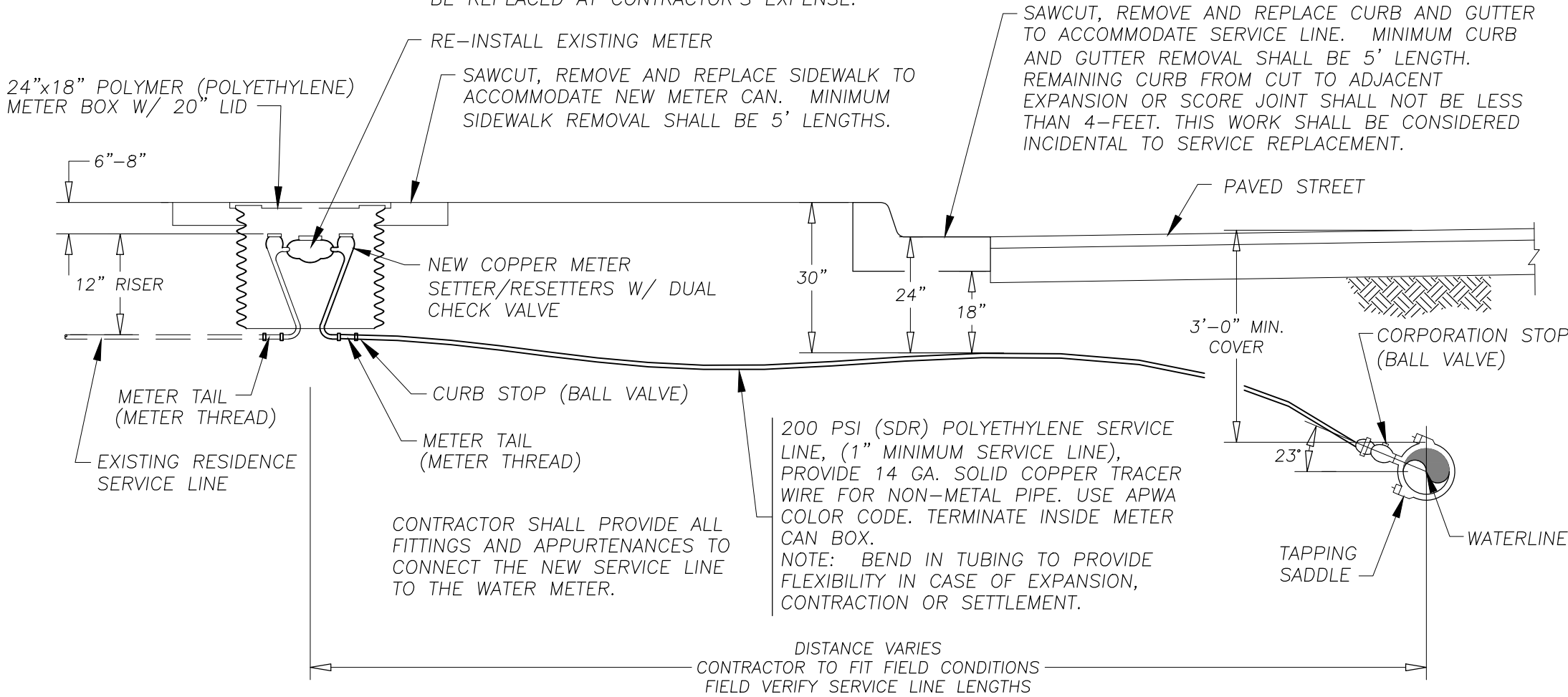
THE DIMENSIONS ON THE TABLE ARE FOR PIPE BEING TESTED UP TO 150 P.S.I.

CONTRACTOR NOTE:
CONTRACTOR SHALL INSCRIBE A 'W' ON TOP OF CONCRETE CURB (IN-LINE W/ NEW WATER SERVICE) TO INDICATE THE LOCATION OF THE NEW WATER SERVICE LINE.

CONTRACTOR NOTE:
METER CAN SHALL NOT BE INSTALLED IN ACCESSIBLE (ADA) RAMP PAN, SLOPE OR LANDINGS.

CONTRACTOR NOTE:
IN SOME CASES THE EXISTING WATER METER IS SURROUNDED BY CONCRETE, ANY DAMAGE BY THE CONTRACTOR TO THE ADJACENT CONCRETE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

CONTRACTOR NOTE:
THE WATER SERVICE LINE MAY BE PUNCHED UNDERNEATH THE EXISTING CURB AND GUTTER AS LONG AS THE RESULTING HOLE IS LESS THAN 6-INCHES IN THE HORIZONTAL DIRECTION.



CONTRACTOR SHALL PROVIDE ALL FITTINGS AND APPURTENANCES TO CONNECT THE NEW SERVICE LINE TO THE WATER METER.

CONTRACTOR TO FIT FIELD CONDITIONS FIELD VERIFY SERVICE LINE LENGTHS

NOTE:
METER CAN SHALL BE INSTALLED IN SIDEWALKS OR LANDSCAPE AREA (BETWEEN SIDEWALK AND BACK OF CURB) WITHIN RIGHT OF WAY. METER CANS SHALL NOT BE INSTALLED IN DRIVEWAYS OR VEHICULAR TRAFFIC FLOWS UNLESS LOCATION(S) AND METER CAN TYPE(S) HAVE BEEN PRE-APPROVED BY THE PUBLIC WORKS DEPARTMENT AND COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO INSTALLATION.

Typical City of Alamogordo Water Service Detail

No Scale

NOTE:
WATER SERVICE DETAIL AND WATER SERVICE INSTALLATION MATERIAL LISTING ARE TYPICAL FOR 3/4" WATER SERVICE. ADJUSTMENTS SHALL BE MADE TO FITTINGS, CONNECTIONS, SERVICE LINE, ECT. SIZE AS REQUIRED FOR WATER SERVICES LARGER THAN 3/4". ALL FITTING, CONNECTIONS, SERVICE LINE, ETC. SHALL BE RATED FOR 150 P.S.I. (MINIMUM) WORKING PRESSURE.

TYPICAL WATER SERVICE INSTALLATION MATERIAL LISTING:

COLD WATER METER: WATER METERS SHALL BE MULTIJET, READING IN CUBIC FEET AND ACCEPTABLE FOR USE WITH ZENNER STEALTH READER MIU SYSTEM. NO SUBSTITUTIONS. REFER TO ARTICLE 02-026.1 WATER SUPPLY SYSTEM FOR THE LIST OF COMPATIBLE WATER METERS. WATER METERS LARGER THAN 2-INCHES SHALL BE POSITIVE DISPLACEMENT (COMPOUND) METERS.

SERVICE (TAPPING) SADDLE: TAPPING SADDLES REQUIRE THE PRE-APPROVAL BY PUBLIC WORKS DEPARTMENT AND ENGINEERING DEPARTMENT PRIOR TO INSTALLATION. ACCEPTABLE SADDLES SHALL HAVE DOUBLE STRAPS STRAP SECURED BY FOUR BOLTS. SADDLES SHALL ALSO HAVE 1" IP THREADED OUTLET AND BE MADE OF THE FOLLOWING ACCEPTED MATERIALS:

BODY - DUCTILE IRON BODY, CONFORMING TO ASTM A-536, WITH 10-12 MIL FUSSION EPOXY COATING OR NYLON COATED.

STRAPS - TYPE 304 (18-8) HEAVY GRADE STAINLESS STEEL, CONFORMING TO ASTM A-240.

NUTS & WASHERS - UNC ROLL THREAD TYPE 304 (18-8) STAINLESS STEEL BOLTS WITH HEAVY HEX NUTS. ROD FOR BOLTS, CONFORMING TO ASTM A-240, AND NUTS, CONFORMING TO ASTM A-194. ALL WELDS FULLY PASSIVATED FOR ENHANCED CORROSION RESISTANCE. NUTS COATED TO PREVENT GALLING.

GASKET - NITRILE BUTADIENE RUBBER (NBR), ASTM D-2000 MBC-610 OR HD EDPM O-RING.

NOTE: SADDLE WITH SLENDER SINGLE STRAPS SECURED BY TWO BOLTS, CAST IRON BODY AND STEEL STRAPS ARE NOT ACCEPTABLE.

CORPORATION STOP: CORPORATION STOP SHALL BE BALL VALVE TYPE AND RATED FOR 150 P.S.I. (MINIMUM) WORKING PRESSURE. CORPORATION STOP SHALL HAVE A 1" IP THREADED INLET WITH A PACK JOINT CONNECTION FITTING OR MUELLER INSTA-TITE CONNECTION FOR 1" PVC SERVICE LINE.

SERVICE LINE: SERVICE LINE SHALL BE 1" BLUE SDR POLYETHYLENE, 200 PSI, CONFORMING TO ASTM D2737 AND SPECIFIED FOR POTABLE WATER.

CURB STOP: CURB STOP SHALL BE BALL VALVE TYPE AND RATED FOR 150 P.S.I. (MINIMUM) WORKING PRESSURE.

COPPER METER RESETTER: COPPER METER RESETTER (METER YOKE) SHALL BE HORIZONTAL STYLE, 5/8"x3/4" (METER YOKE) BRASS/COPPER WITH LOCK WING STYLE ANGLE METER VALVE ON INLET AND TOP ENTRY ANGLE DUAL CHECK VALVE ON OUTLET WITH BRASS SUPPORT BAR. THE CONNECTIONS FOR METER SHALL BE BRASS SWIREL NUT WITH WIRE SEAL HOLE AND METER SUPPORT LIP. INLET AND OUTLET THREADS SHALL BE METER THREAD. THE CONNECTION TO THE 1" SERVICE LINE SHALL BE MADE WITH AN AY McDONALD 76102 O.A.E. CTS MAC-PAC JOINT/FNPT CURB STOP AND A 3/4"x1" BRASS METER BUSHING. IF A THERMAL-COIL BOX IS UTILIZED THE FOLLOWING MATERIALS SHALL BE USED VERSUS THE METER YOKE:

- POLYBUTYLENE TUBING
- A LOCK WING METER STOP (INLET 3/4")
- A DUAL CHECK VALVE (OUTLET 3/4")
- A 3/4" OUTSIDE METER THREADED INLET
- A 3/4" OUTSIDE METER THREADED OUTLET

METER BOXES: SPECIFICATION IS BASED ON USE OF "DFW PLASTICS, INC." BY DFW PLASTICS, INC., 901 E INDUSTRIAL AVENUE, SAGINAW TX 76131, WITH ATTRIBUTES AS DESCRIBED BELOW. EQUAL PRODUCTS OF OTHER WATER METER CAN MANUFACTURERS MAY BE ACCEPTABLE WHEN PRE-APPROVED BY OWNER. PRE-APPROVED EQUAL, SUBSTITUTIONS UNDER ARTICLE 01-002.4.

THIS PRODUCT IS DESIGNED TO WITHSTAND LOADING IN NON-DELIBERATE AND INCIDENTAL TRAFFIC. NOT TO BE INSTALLED IN ROADWAY. METER PIT LID SHALL BE BLACK AND CONSTRUCTED OUT OF MODIFIED POLYETHYLENE MATERIAL FOR MAXIMUM DURABILITY AND CORROSION RESISTANCE. THE BLACK MATERIAL IS FOR MAXIMUM UV PROTECTION. THE BLACK MATERIAL SHALL BE UNIFORM THROUGHOUT THE METER PIT LID FOR MAXIMUM LONGEVITY AND NOT HAVE A FOAMING AGENT THAT CREATES AIR POCKETS WITHIN THE POLYMER LID.

VERTICAL AND LATERAL LOAD RATING:

- COMPLIANT WITH AASHTO, DESIGN LOAD OF H-10; ASTM C857-16, DESIGN LOAD OF A-8, 8,000 LBS. TRANSFERRED THROUGH A 10" X 10" STEEL PLATE CENTERED IN THE COVER AND BODY.
 - COMPLIANT WITH AASHTO, DESIGN LOAD OF H-20; ASTM C857-16, DESIGN LOAD OF A-16, 16,000 LBS. TRANSFERRED THROUGH A 10" X 20" STEEL PLATE CENTERED ON THE COVER AND BODY.
 - THIS PRODUCT IS DESIGNED TO WITHSTAND H-10 AND H-20 LOADING IN NON-DELIBERATE OR INCIDENTAL TRAFFIC AREAS.
- NOT INTENDED TO BE INSTALLED IN ROADWAYS.

POLYMER LID

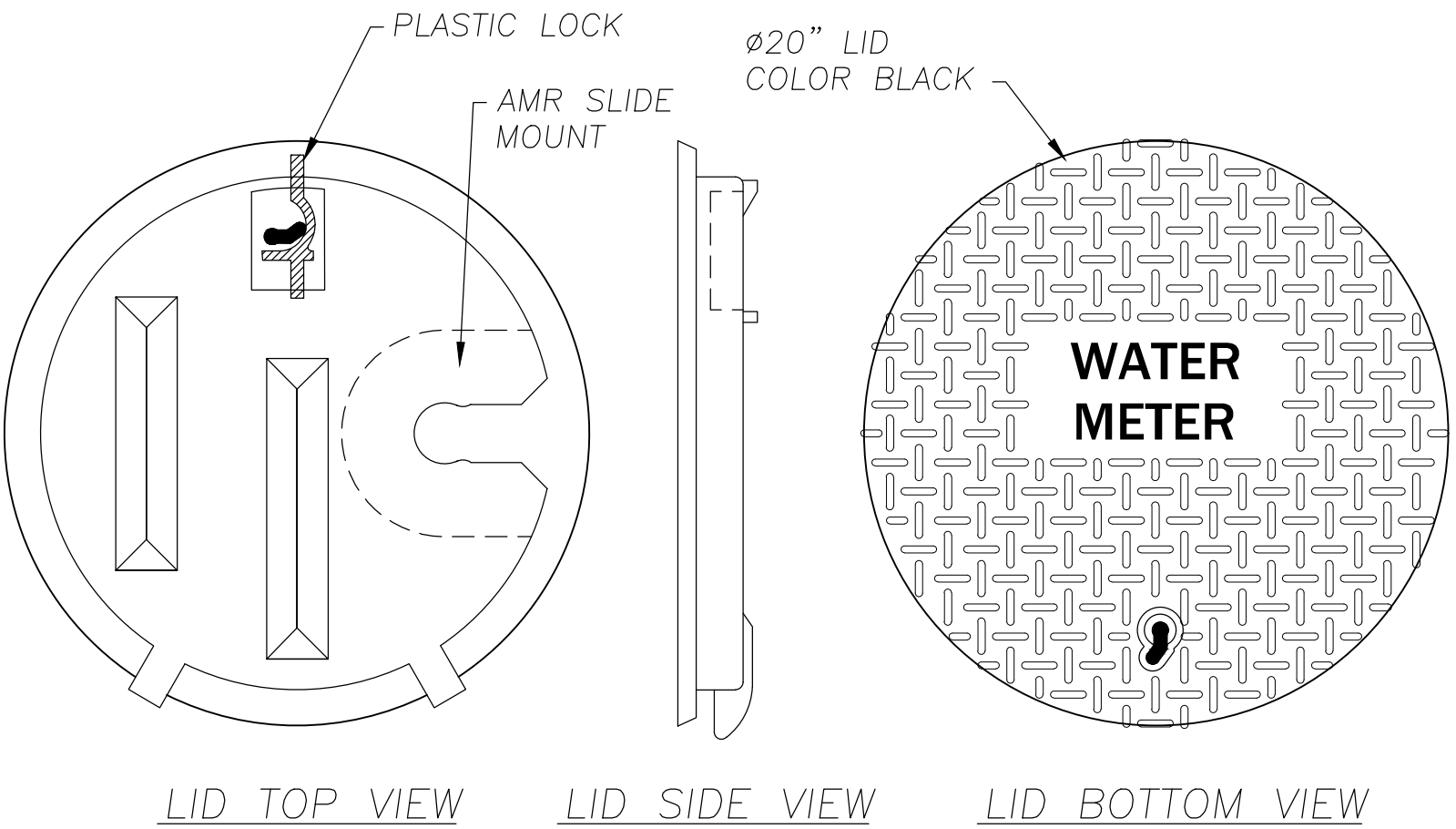
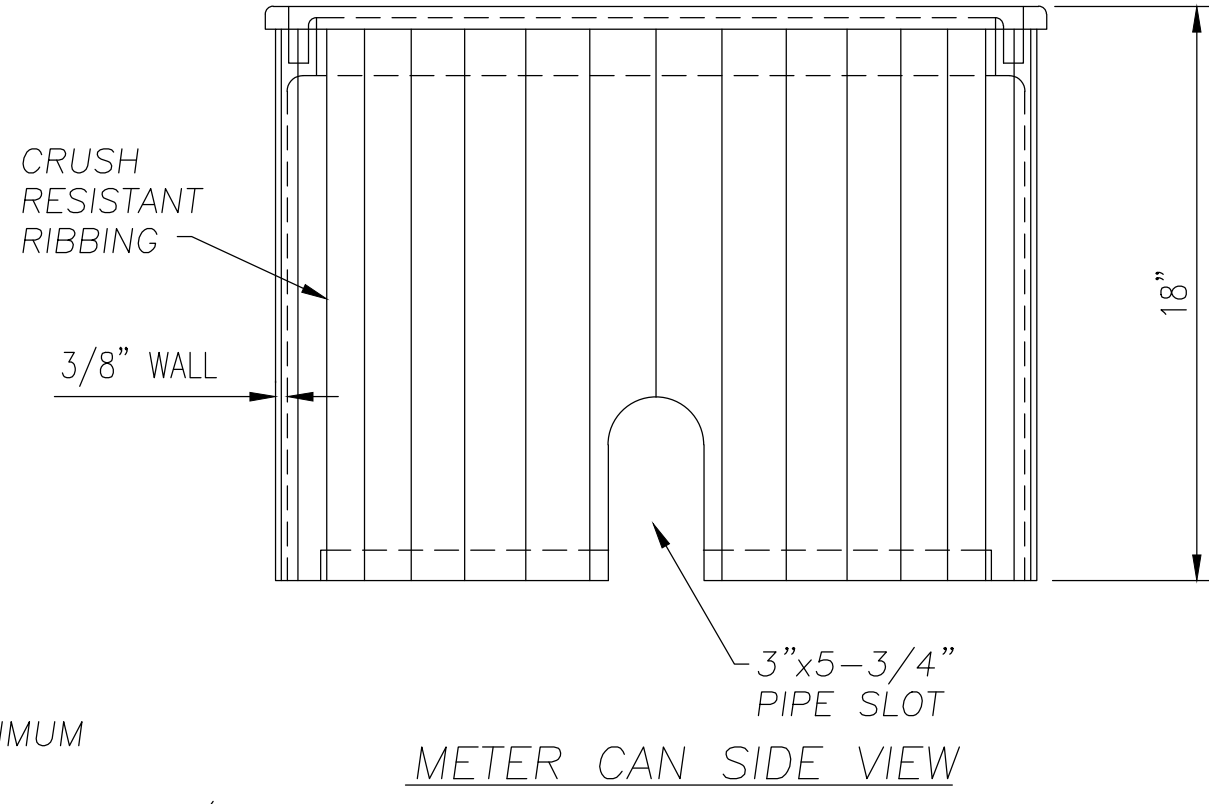
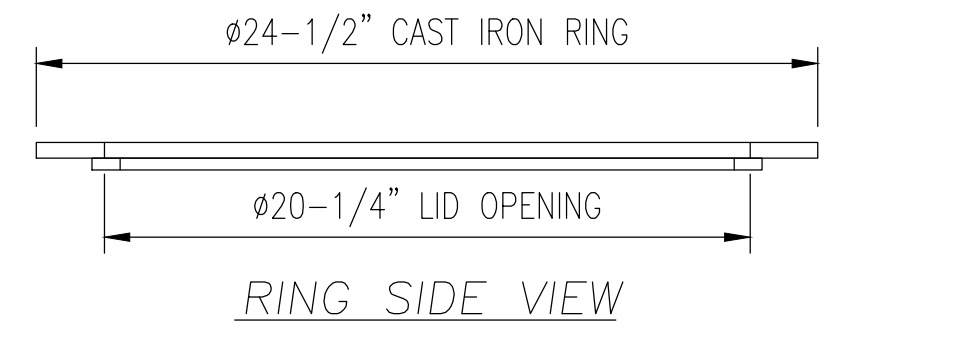
- THE POLYMER LID SHALL HAVE A MOLDED KEY HOLE AND PLASTIC LOCK UNDERNEATH LID - AS ILLUSTRATED.
- THE POLYMER LID SHALL HAVE ONE (1) MOLDED SLIDE MOUNT FOR PLACEMENT OF AMR/AMI DEVICE - AS ILLUSTRATED.
- THE POLYMER LID SHALL SEAT SECURELY AND EVENLY INSIDE THE METER PIT AND SHALL NOT OVERLAP THE TOP EDGE OF THE METER PIT.
- THE POLYMER LID SHALL HAVE MOLDED TREAD-PATTERN FOR SKID RESISTANCE - TREAD DIMENSIONS SHALL BE 0.188" X 0.938" X 0.150" DEEP.
- THE POLYMER LID SHALL HAVE "WATER METER" MOLDED INTO THE LID - FONT SHALL BE STD FADAL CNC FONT WITH 1" CHARACTERS X 0.150" DEEP.
- THE POLYMER LID SHALL BE BLACK AND HAVE A MOLDED RECYCLED EMBLEM WITH A MINIMUM OF 50% POST CONSUMER RECYCLED AND 50% POST INDUSTRIAL/ PRE CONSUMER RECYCLED CONTENT- VERIFIED WITH A LEED PRODUCT DOCUMENTATION.

POLYMER BODY

- THE POLYMER BODY SHALL BE BLACK AND HAVE A MINIMUM OF 3/8" WALL THICKNESS - AS ILLUSTRATED.
- THE POLYMER BODY SHALL HAVE MINIMUM INSIDE WORKING ROOM OF (23-1/4") - AS ILLUSTRATED.
- THE POLYMER BODY SHALL HAVE CRUSH RESISTANT RIBBING ALONG THE OUTSIDE OF THE BOX WITH 1-5/8" BASE FOOTING LOCATED AT THE BOTTOM OF THE METER PIT TO HELP ELIMINATE SINKING OR FLOATING ONCE INSTALLED.
- THE POLYMER BODY SHALL HAVE A STRAIGHT WALL DESIGN AND NOT BE FLARED AS TO ALLOW FOR ADJUSTMENT TO GRADE AFTER INSTALLATION.
- THE POLYMER BODY SHALL HAVE ONE PIPE SLOT MOLDED ON EACH END OF THE BODY THAT MEASURES (3" X 5-3/4").
- THE POLYMER BODY SHALL HAVE A MOLDED RECYCLED EMBLEM WITH A MINIMUM OF 35% POST INDUSTRIAL/ PRE CONSUMER RECYCLED CONTENT - VERIFIED WITH A LEED PRODUCT DOCUMENTATION.

WHENEVER IN THE SPECIFICATIONS, ANY PARTICULAR MATERIALS, PROCESS AND/OR EQUIPMENT IS INDICATED OR SPECIFIED BY PATENT, PROPRIETARY, OR BRAND NAME, OR BY NAME OF MANUFACTURER, SUCH WORDING SHALL BE DEEMED TO BE USED FOR THE PURPOSE OF FACILITATING DESCRIPTION OF THE MATERIAL, PROCESS, AND/OR EQUIPMENT DESIRED, AND SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR EQUAL". THE LISTS OF ACCEPTABLE MATERIAL ARE NOT INTENDED TO BE COMPREHENSIVE LISTS, OR IN ANY ORDER OF PREFERENCE. THE BIDDER MAY OFFER ANY MATERIAL, PROCESS, AND/OR EQUIPMENT WHICH COMPLY WITH THE GOVERNING SPECIFICATIONS WHICH THE BIDDER CONSIDERS TO BE EQUIVALENT TO THAT WHICH IS INDICATED OR SPECIFIED.

THE NOTED METER BOX SIZE IS FOR A TYPICAL FOR 3/4" AND 1" WATER SERVICES. METER BOXES FOR WATER SERVICES LARGER THAN 1 1/2" SHALL BE PRE-APPROVED BY THE PUBLIC WORKS DEPARTMENT.



- GENERAL NOTES:
1. DIMENSION'S ±1/8" U.N.O.
 2. LID MATERIAL: HDPE
 3. BODY MATERIAL: LLDPE
 4. WALL THICKNESS: 3/8"± MINIMUM
 5. I.W.A. = INSIDE WORK AREA
 6. SNAP LOCK POCKET WILL RECEIVE AMR/AMI DEVICE ENDPOINT. SNAP LOCK SLOT IS 1.80"± .015" TO ALLOW FOR A FINGER FORCE INSTALL. POCKET HEIGHT IS 15/16" FOR A MINIMUM 1/8" AIR GAP.

REV. No.	DATE	DESCRIPTION	APPROVED
1	12-21-17	AMENDMENT-1	CA
0	9-08-17	ISSUED FOR CONSTRUCTION	CA

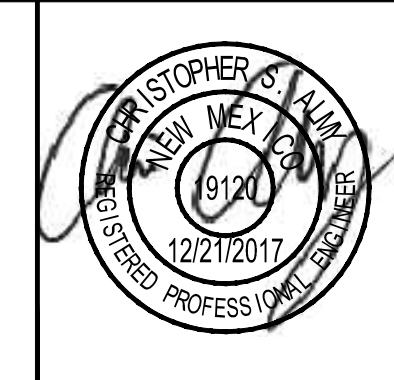
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY2017

Miscellaneous Details

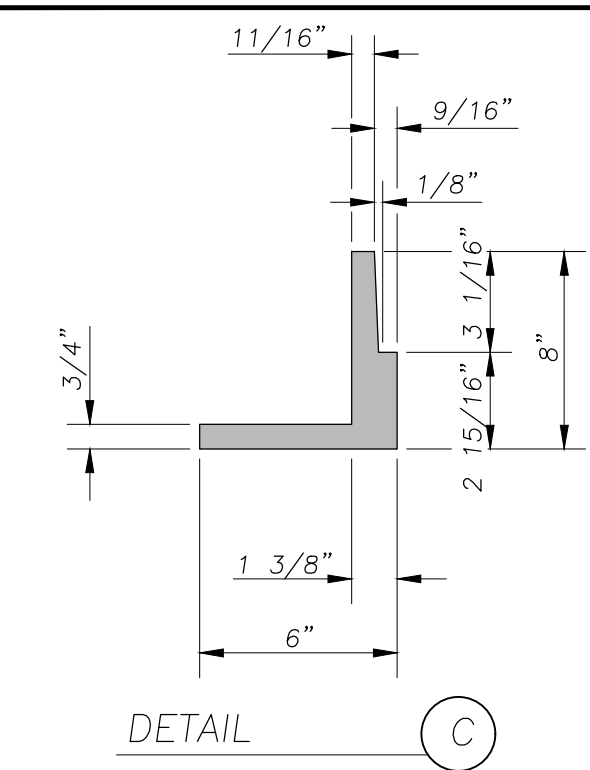
ENGINEERING DEPARTMENT CITY OF ALAMOGORDO NEW MEXICO



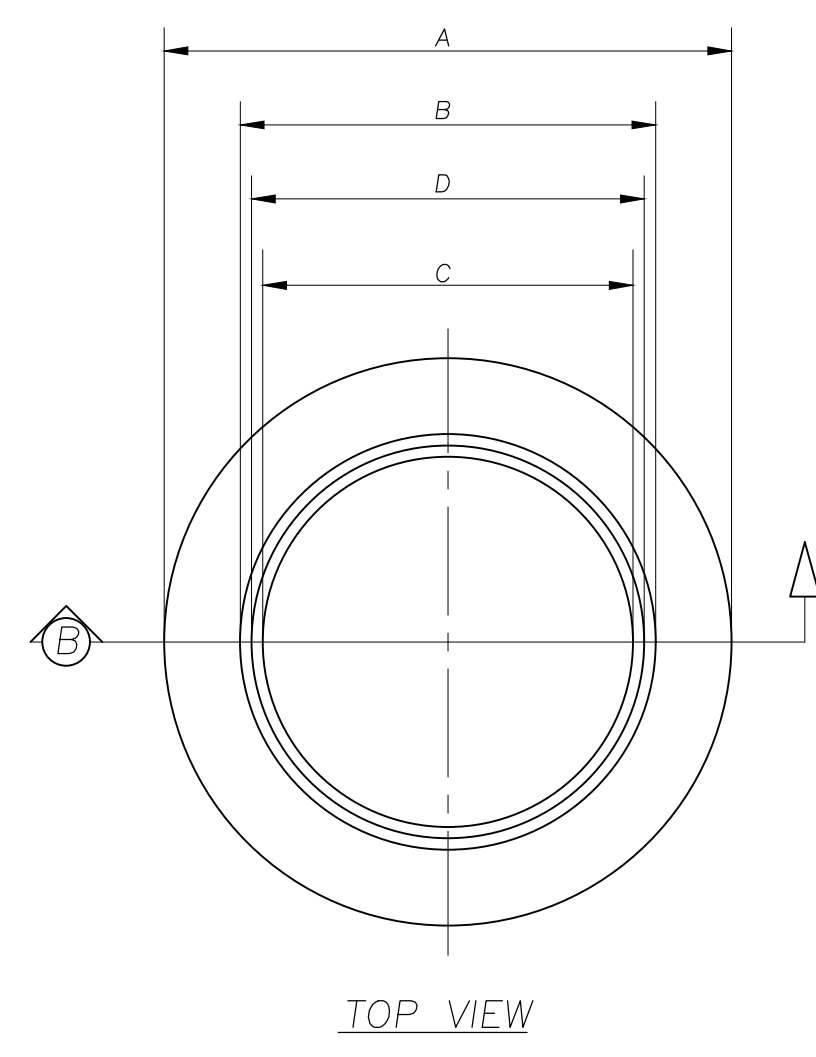
OEI Ocean Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	GG
Designed By:	GG
Checked By:	CA
Approved By:	CA
Scale:	Horiz.: 1" = .2154' Vert.: N/A

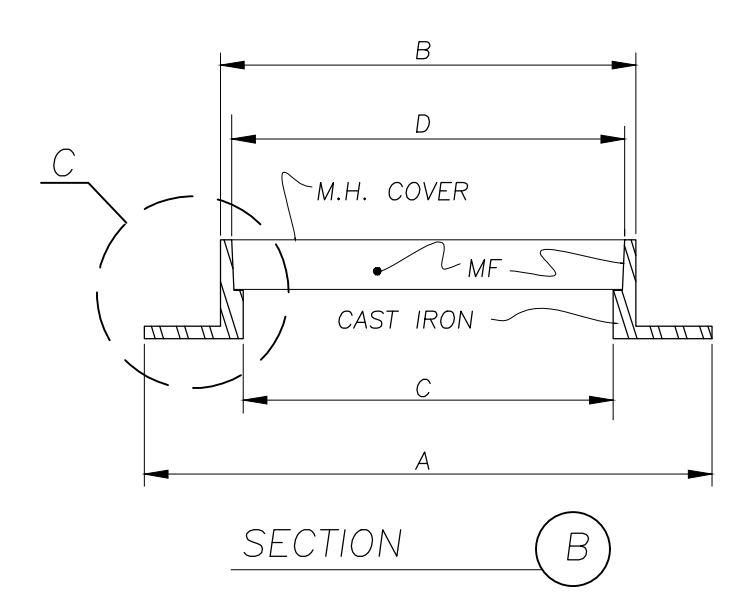
Sheet No.: **D1.1**
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 EN1701



MANHOLE RING	48\"/>	
WEIGHT	165 LBS.	225 LBS.
A	34 1/2\"/>	

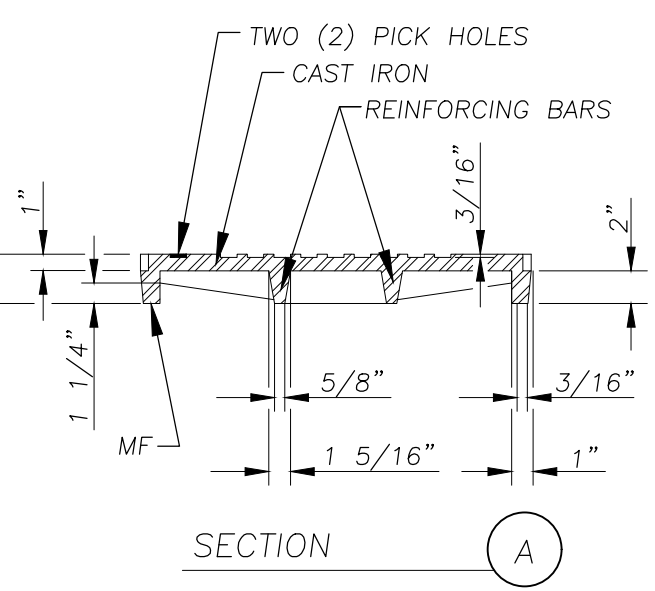


Typical Manhole Ring Detail
NO SCALE

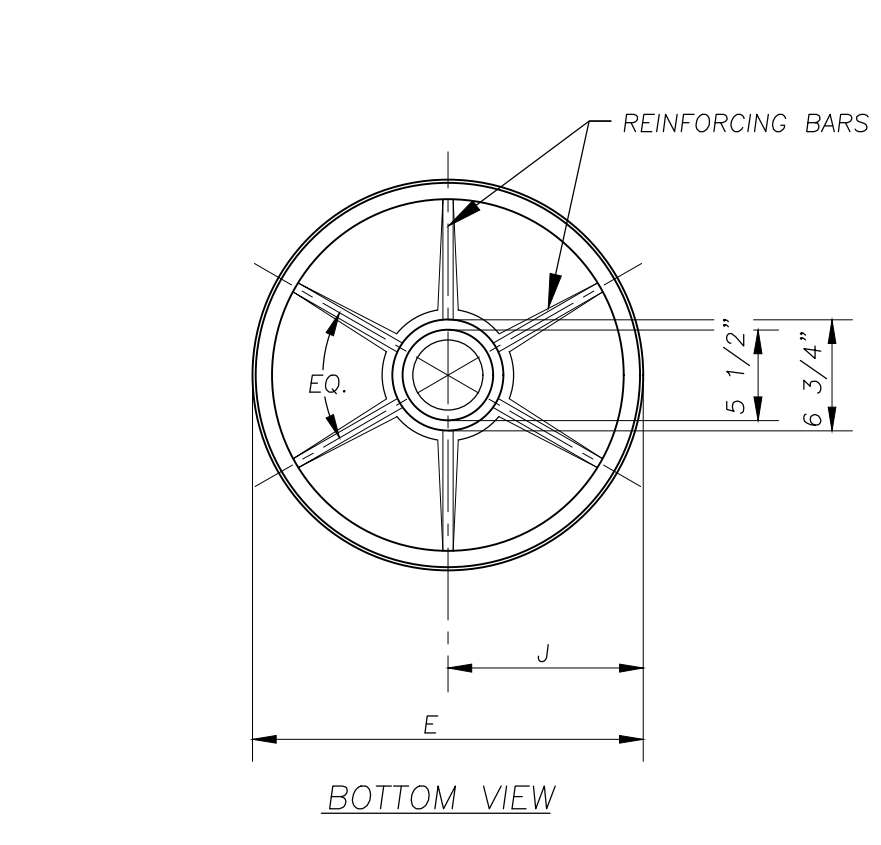


- NOTE:**
- MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH AND FREE OF AIR VOIDS.

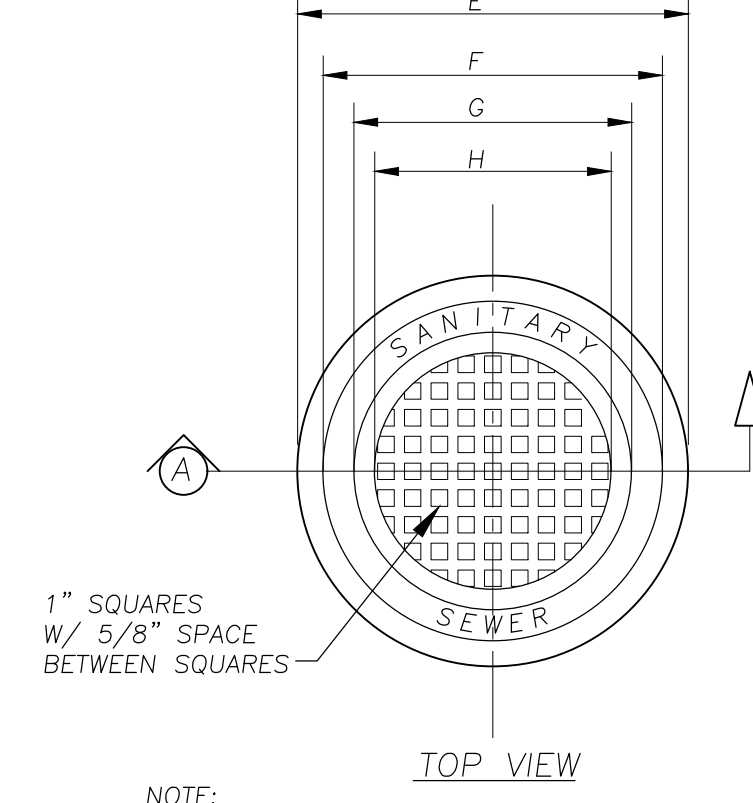
- GENERAL NOTES:**
- MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED AND BE FREE OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH AND FREE OF AIR VOIDS.
 - MANHOLE RING AND LID SHALL BE DESIGNED FOR H-20 WHEEL LOADING.
 - MINIMUM TOTAL WEIGHT (RING AND LID) SHALL BE 300 LBS.
 - TOP OF LID MAY VARY FROM DETAIL SHOWN. LID SHALL BE MARKED FOR APPROPRIATE UTILITY.



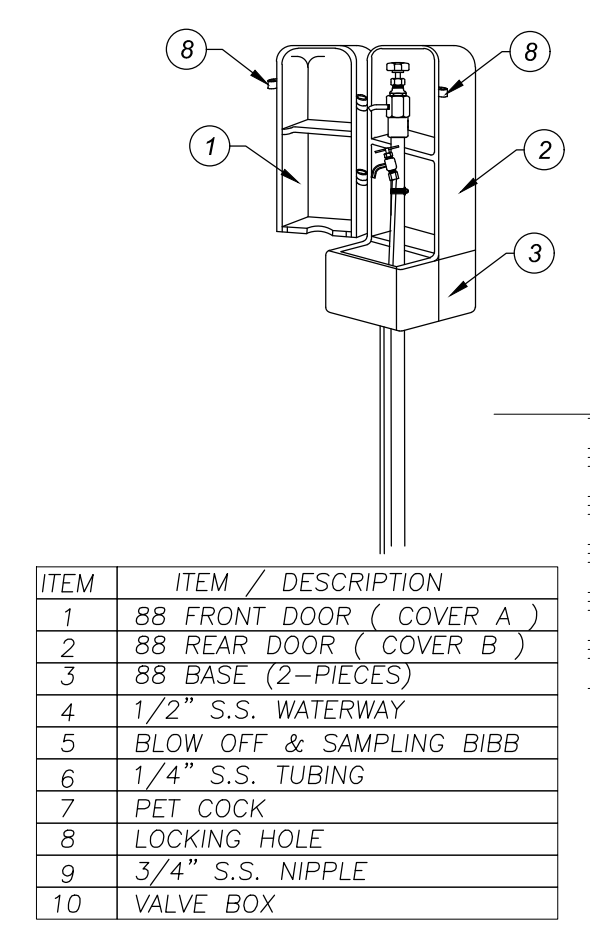
MANHOLE RING	48\"/>	
WEIGHT	175 LBS.	310 LBS.
E	23 3/4\"/>	



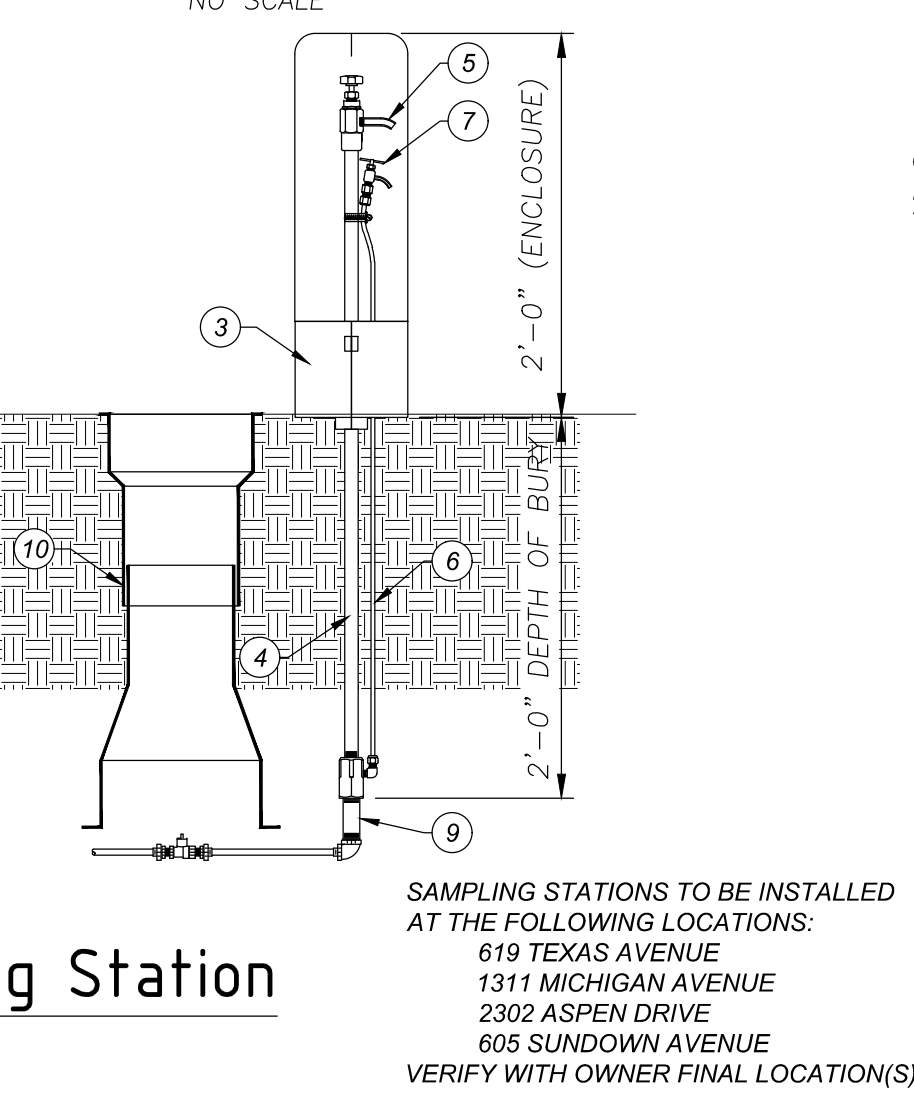
Typical Manhole Lid Detail
NO SCALE



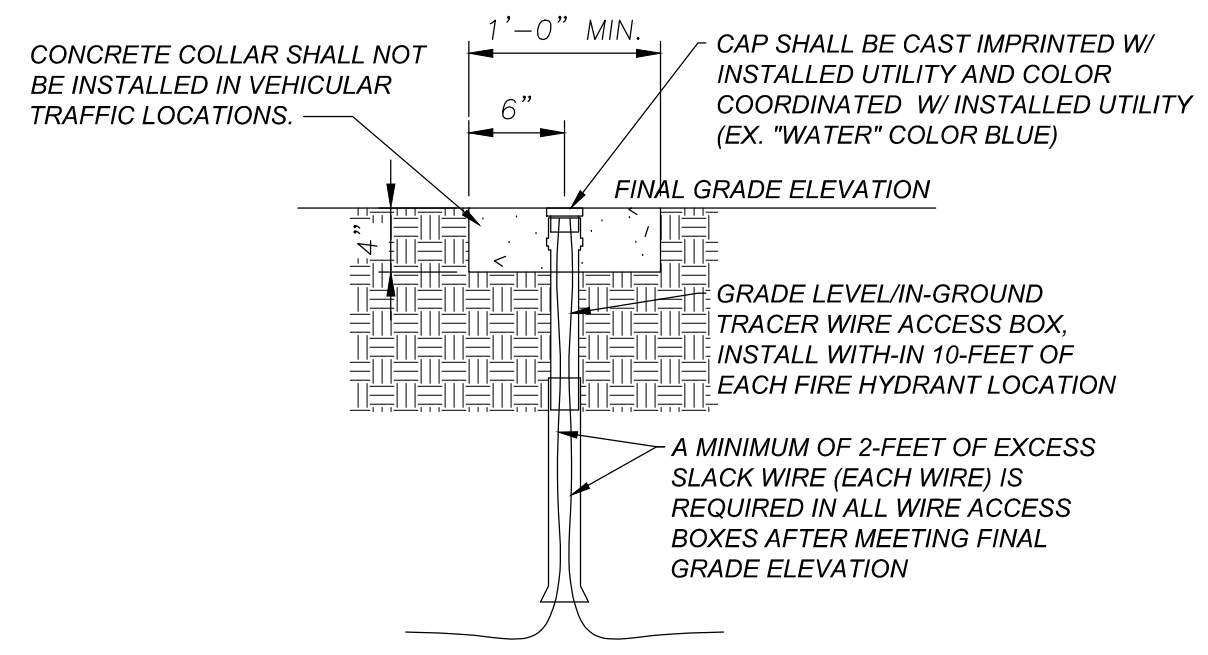
- NOTE:**
- MATCHING SURFACES MARKED "MF" TO BE MACHINE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 - CASTING TO BE SMOOTH AND FREE OF AIR VOIDS.



Typical Sampling Station
NO SCALE

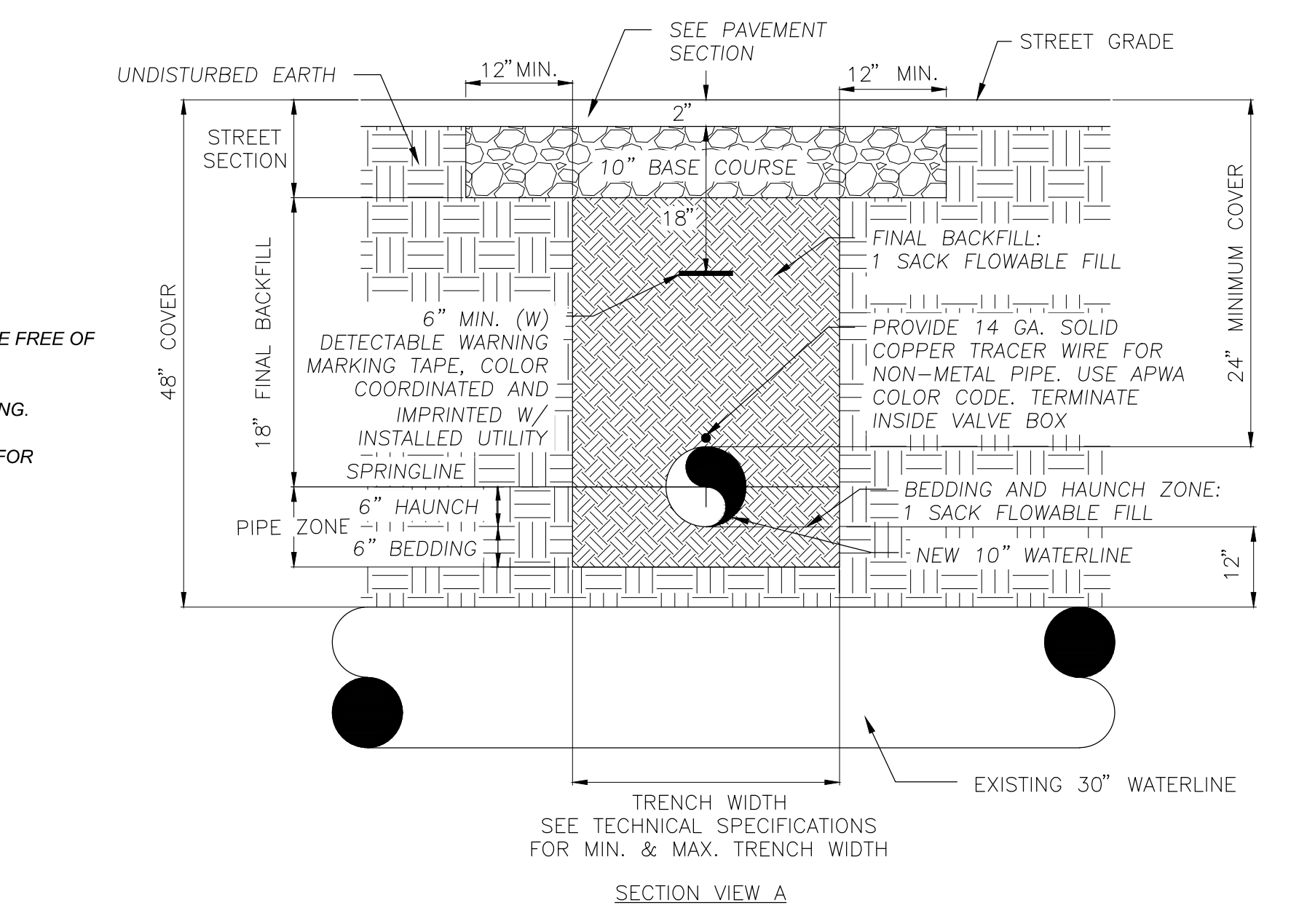
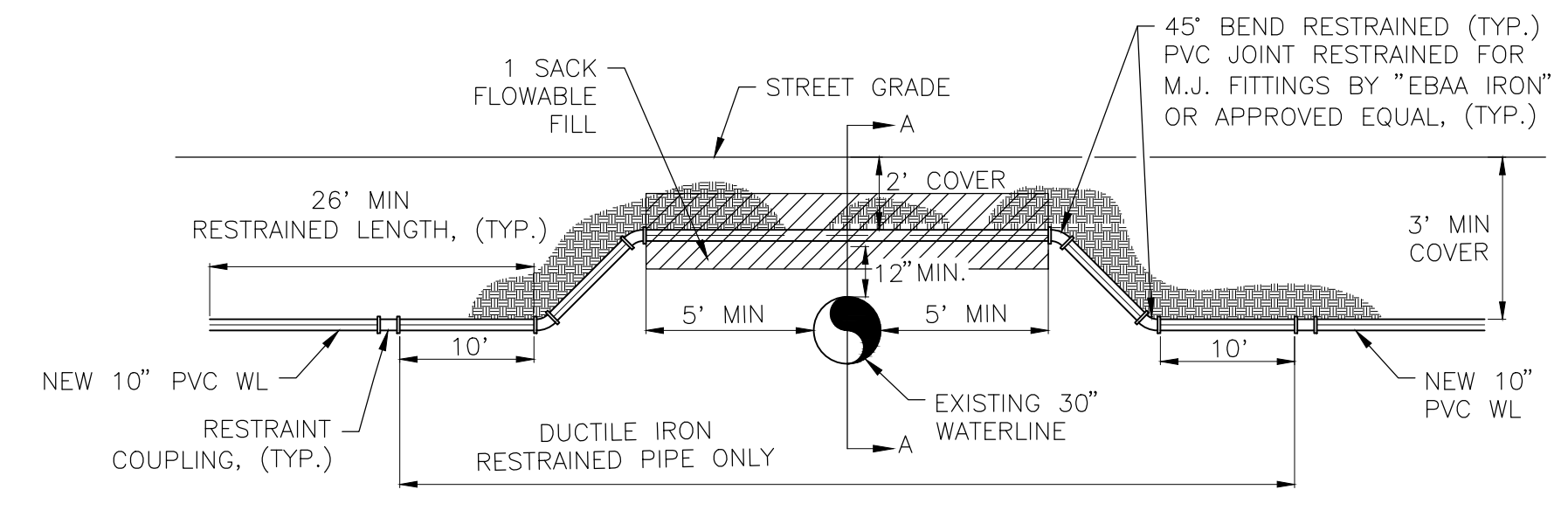


SAMPLING STATIONS TO BE INSTALLED AT THE FOLLOWING LOCATIONS:
619 TEXAS AVENUE
1311 MICHIGAN AVENUE
2302 ASPEN DRIVE
605 SUNDOWN AVENUE
VERIFY WITH OWNER FINAL LOCATION(S).

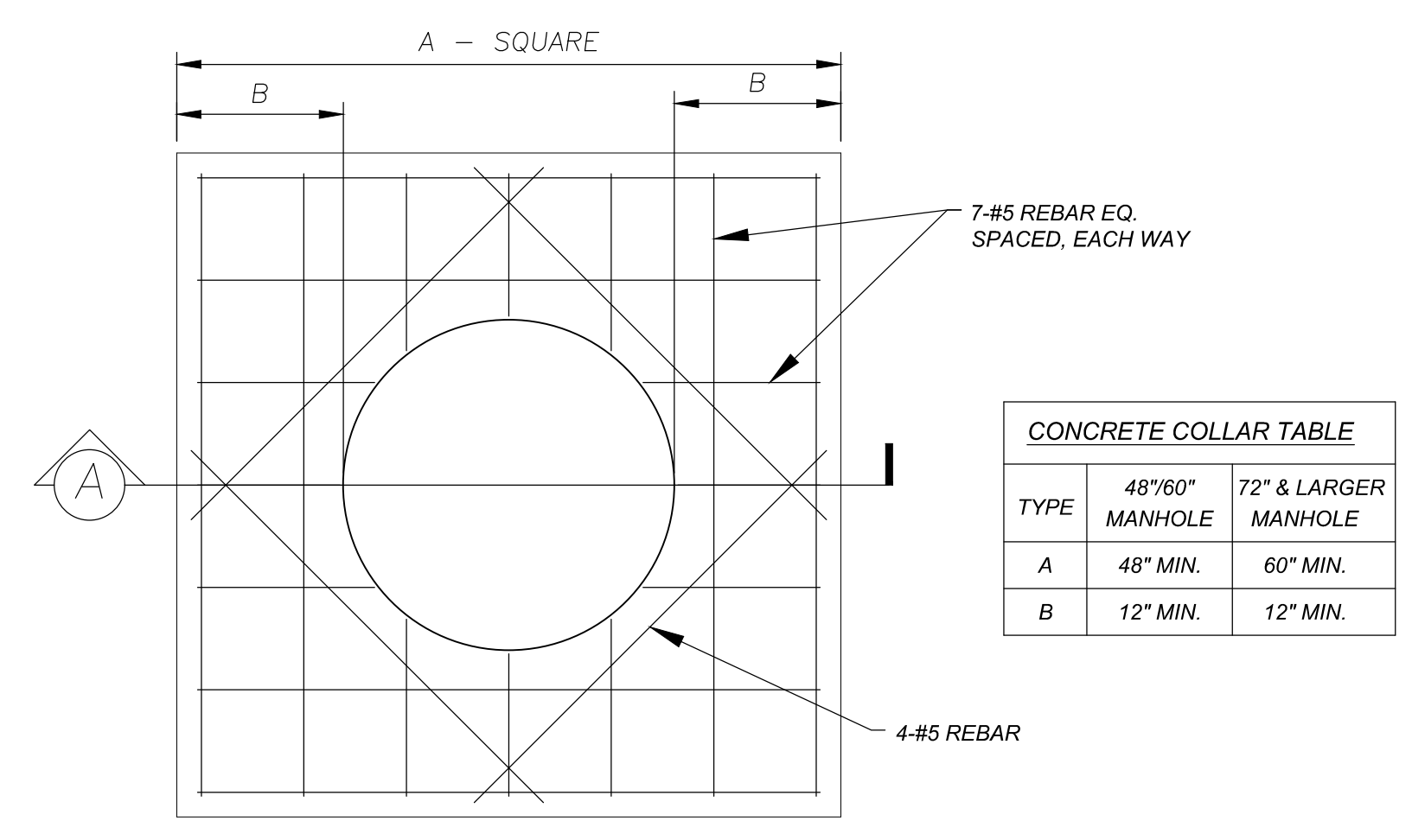


Tracer Wire Termination Detail
NO SCALE

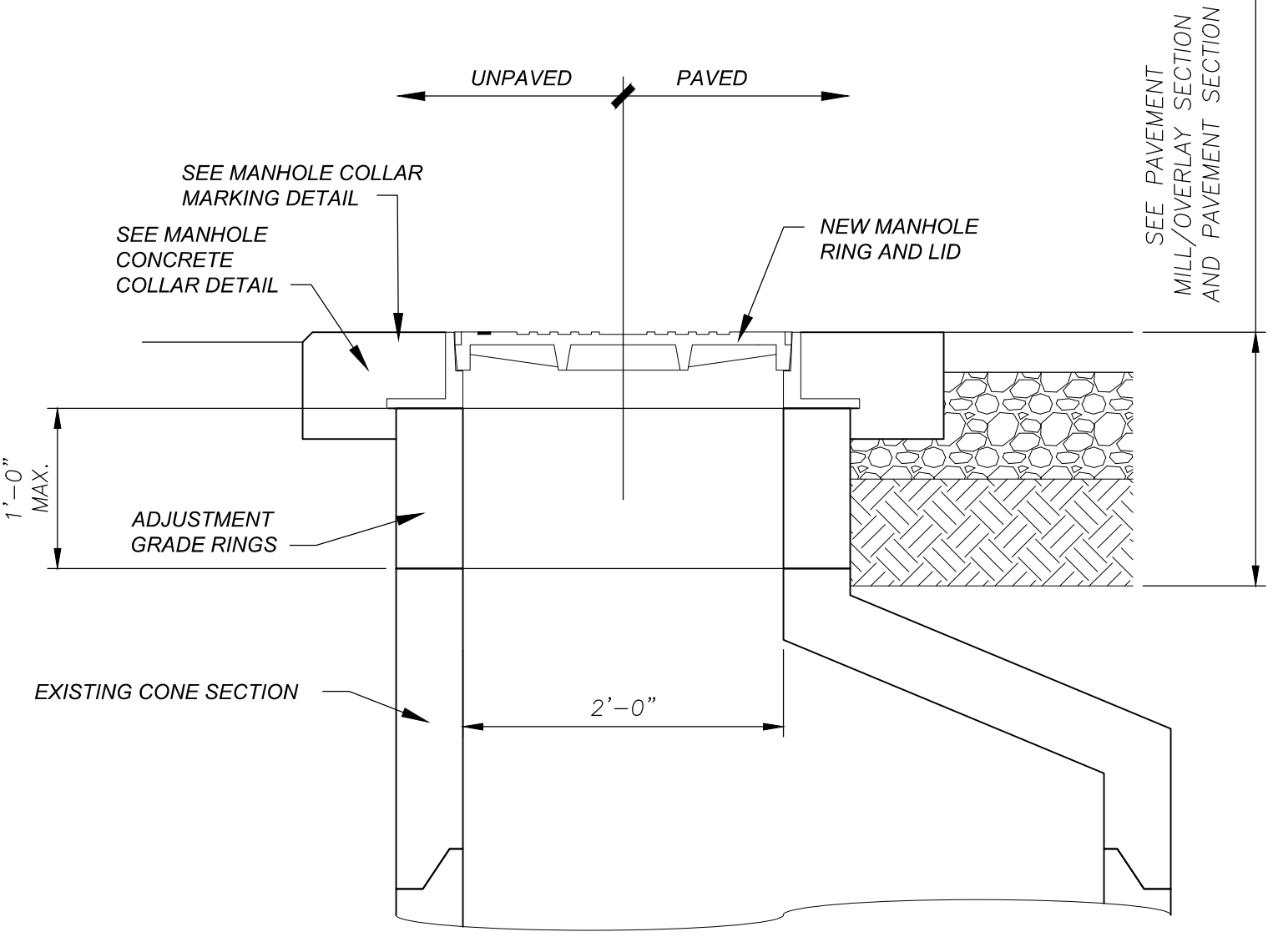
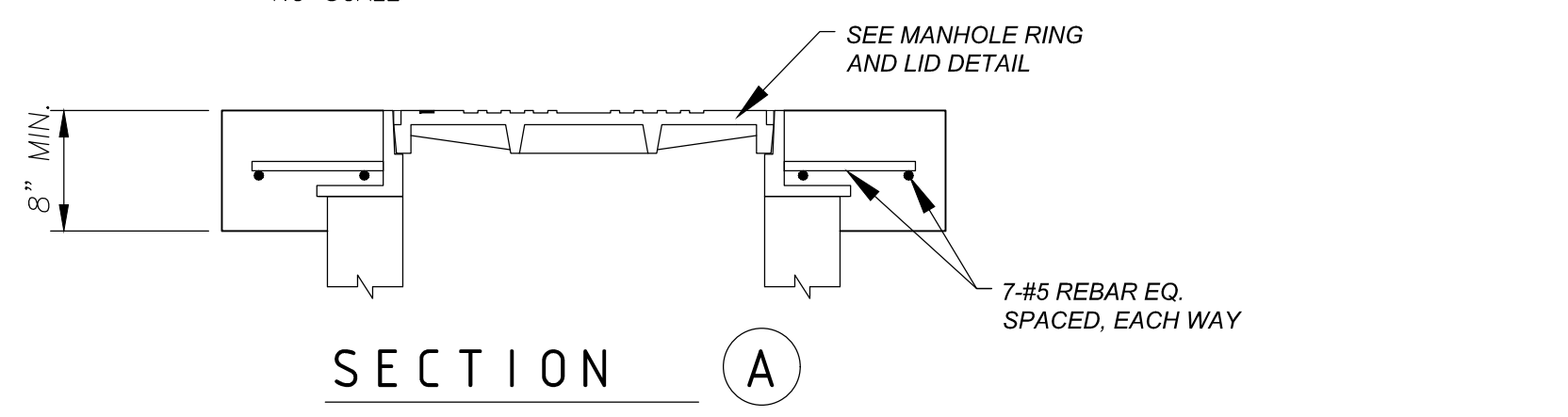
- CONTRACTOR NOTE:**
- TRACER WIRE ACCESS BOXES SHALL BE LOCATED AT ALL FIRE HYDRANT LOCATIONS.
 - TRACER WIRE ACCESS BOXES SPACING SHALL NOT EXCEED 500 LINEAR FEET.
 - COORDINATOR WITH OWNER TRACER WIRE ACCESS BOXES FINAL LOCATION(S).



30\"/>

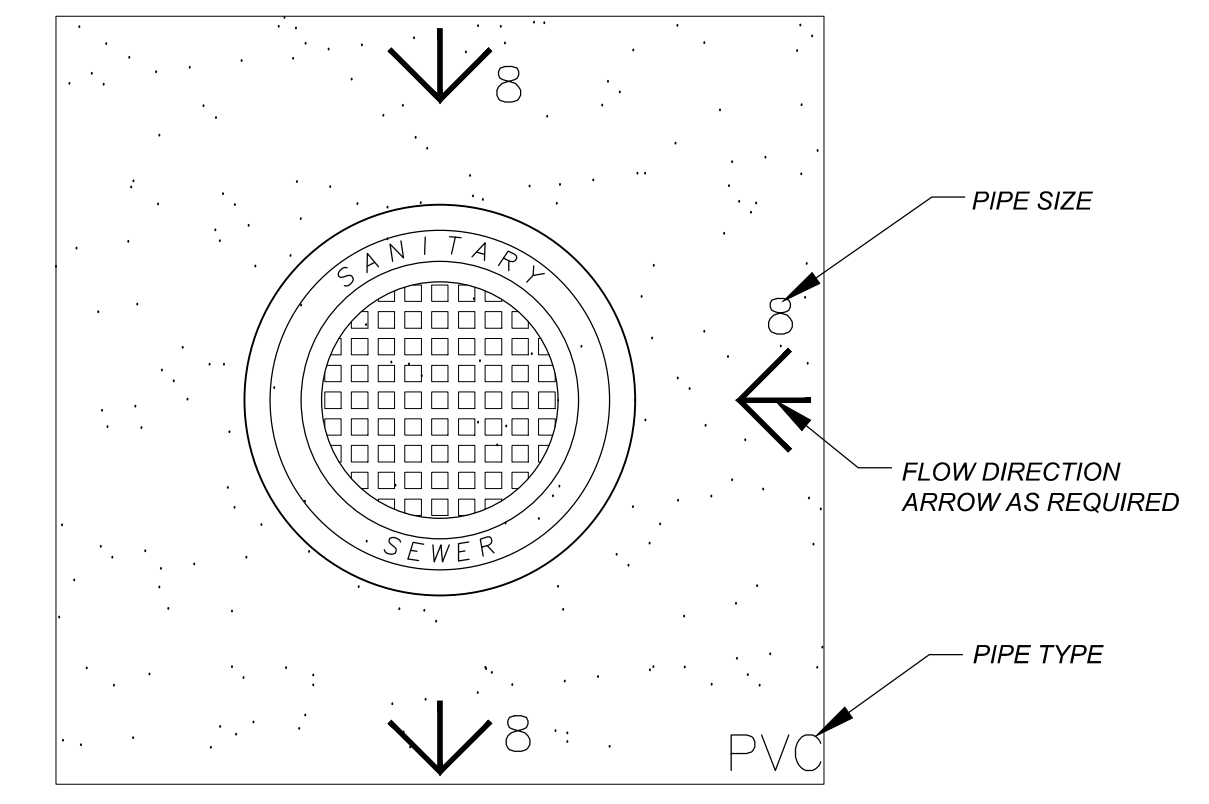


Manhole Concrete Collar Detail
NO SCALE



Manhole Ring and Lid Adjustment Detail
NO SCALE

- GENERAL NOTES:**
- SIDES OF CONCRETE COLLAR TOP SHALL BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.
 - USE 3,000 P.S.I. CONCRETE FOR CONCRETE COLLARS.
 - SCRIBE CONCRETE WITH LINE DIRECTIONAL ARROWS, PIPE SIZE AND PIPE TYPE.
 - TEXT SIZE SHALL BE 4-INCHES TALL AND SCORED 3/8\"/>



Manhole Collar Marking Detail
NO SCALE

- GENERAL NOTES:**
- SIDES OF CONCRETE COLLAR TOP SHALL BE PARALLEL AND PERPENDICULAR TO THE NORMAL STREET TRAFFIC FLOW.
 - USE 3,000 P.S.I. CONCRETE FOR CONCRETE COLLAR.
 - SCRIBE CONCRETE WITH LINE DIRECTIONAL ARROWS, PIPE SIZE AND PIPE TYPE.
 - TEXT SIZE SHALL BE 4-INCHES TALL AND SCORED 3/8\"/>

REV. No.	DATE	DESCRIPTION	APPROVED
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1	12-21-17	AMENDMENT-1	CA
0	9-08-17	ISSUED FOR CONSTRUCTION	CA

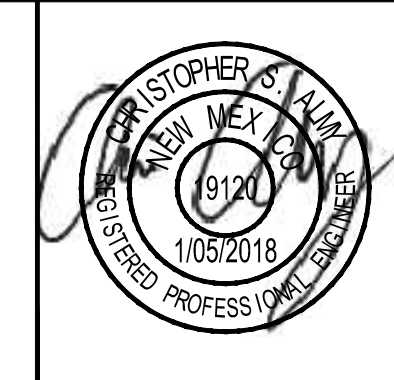
New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



Street Maintenance Program FY2017

Miscellaneous Details

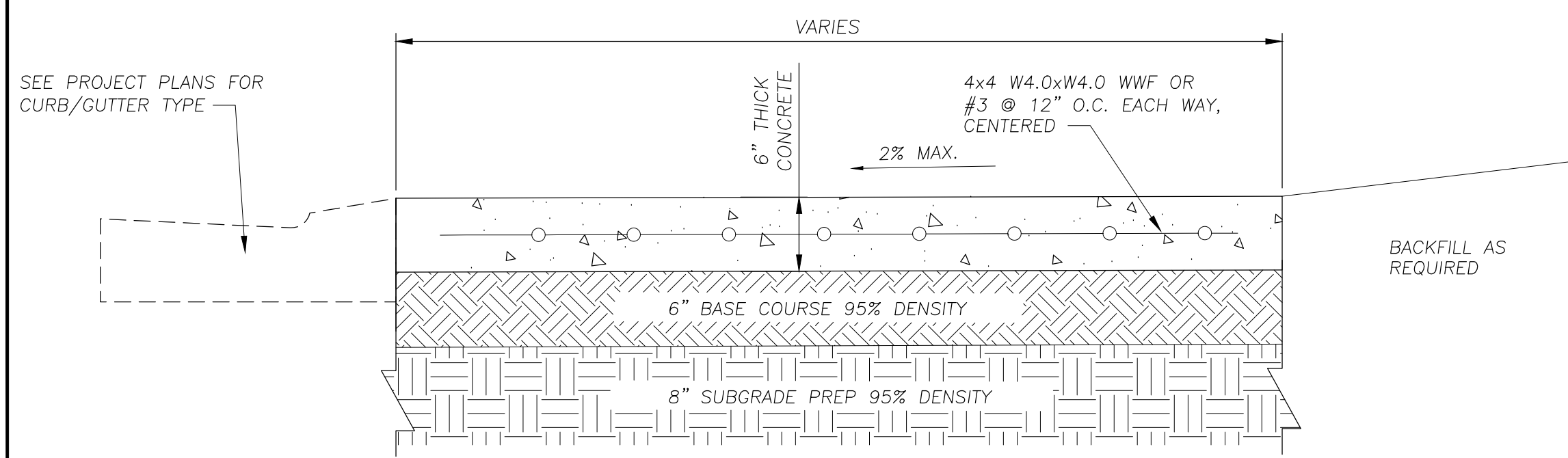
ENGINEERING DEPARTMENT CITY OF ALAMOGORDO NEW MEXICO



OEI Occam Engineers Inc.
 508 S MAIN ST. SUITE 600
 LAS CRUCES, NEW MEXICO 88005
 (575) 524-2007 (OFFICE)
 (575) 524-0482 (FAX)

Public Works Bid No.:	2017-010
Drawn By:	GG
Designed By:	GG
Checked By:	CA
Approved By:	CA
Scale:	Horiz.: 1" = .2154' Vert.: N/A

Sheet No.:	D2.0
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EN1701	

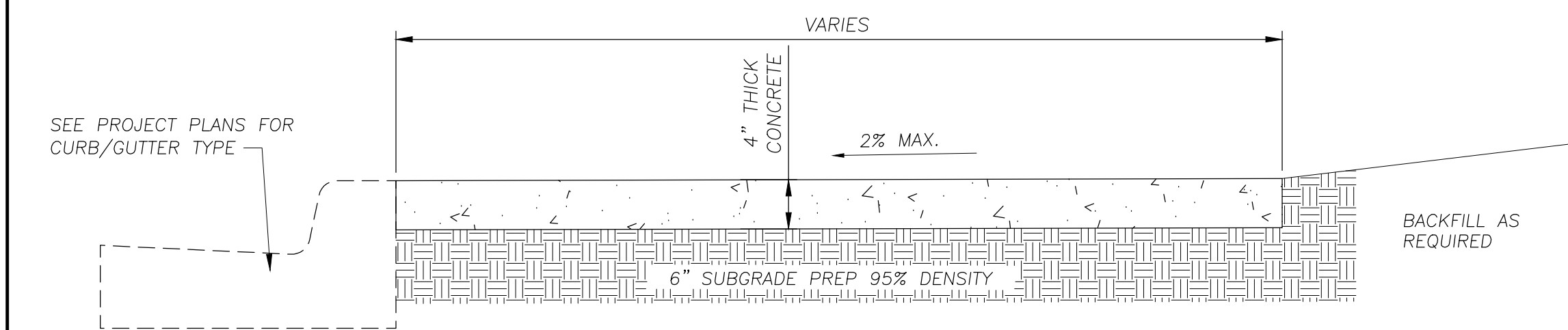


6" Thick Reinforced Concrete

No Scale

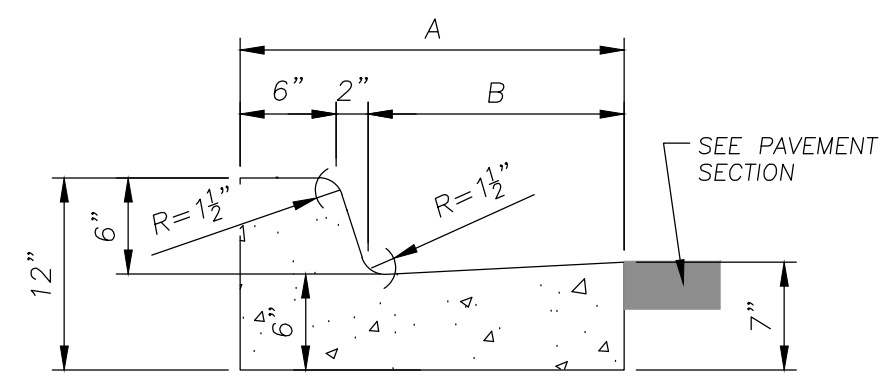
GENERAL NOTES:

- CROSS SLOPE SHALL NOT EXCEED 2% MAXIMUM.
- RAMP SLOPE SHALL NOT EXCEED 8.3% MAXIMUM.
- CONTRACTOR SHALL FIELD VERIFY CROSS SLOPE AND RAMP SLOPE AND COORDINATE WITH ENGINEER ITEMS THAT MAY EXCEED THESE MAXIMUM REQUIREMENTS.
- COORDINATE WITH OWNER/ENGINEER LIMITS OF REMOVAL.
- COORDINATE WITH OWNER/ENGINEER LIMITS OF BACKFILL REQUIREMENTS.

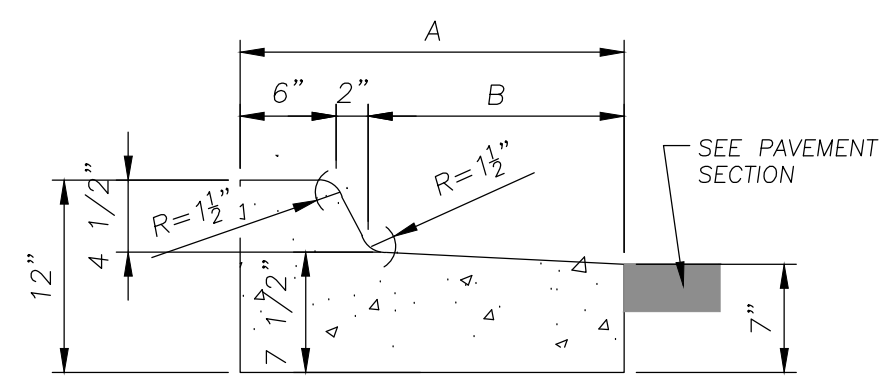


4" Thick Concrete

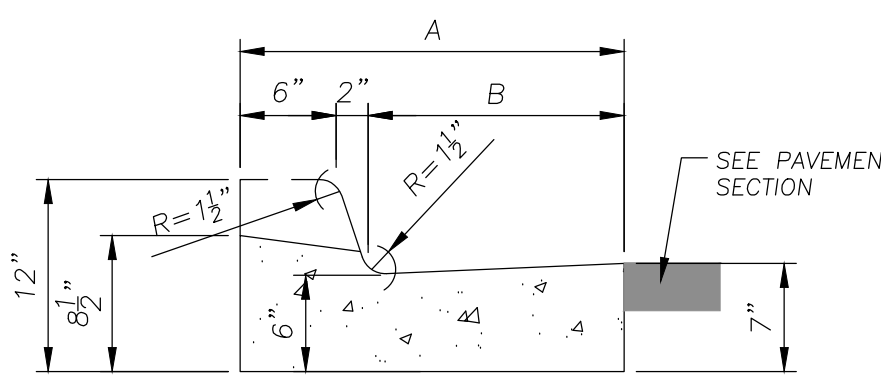
No Scale



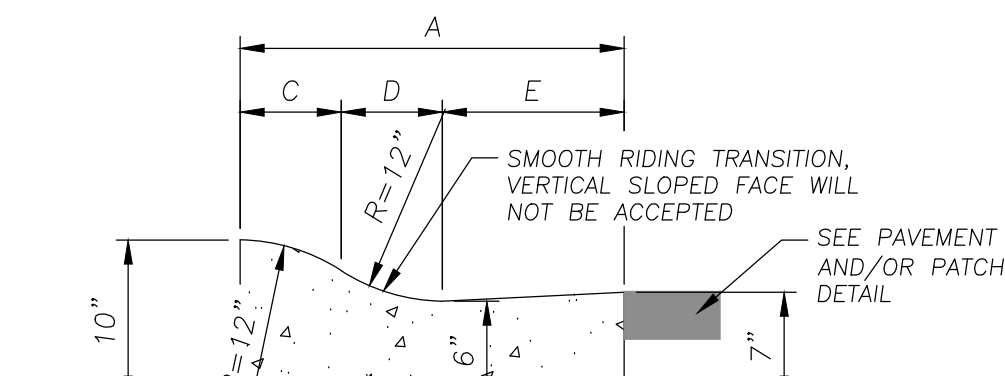
STANDARD CURB & GUTTER



REVERSE SLOPE CURB & GUTTER



LAY-DOWN CURB & GUTTER



MOUNTABLE CURB & GUTTER

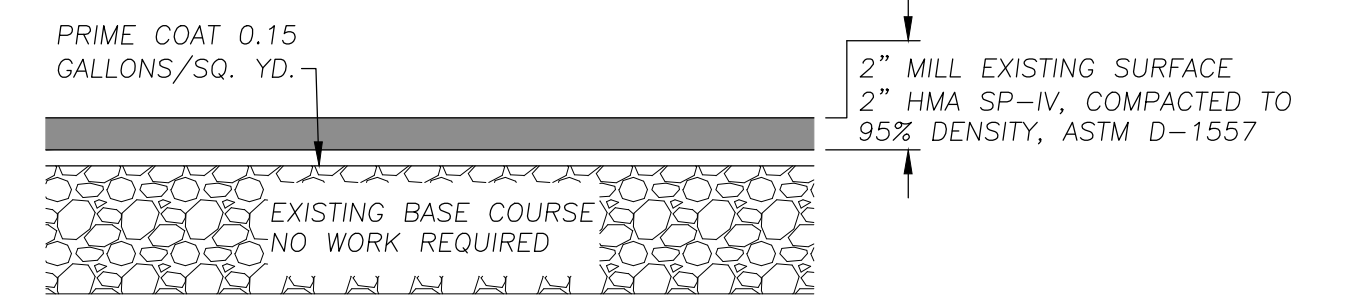
CURB & GUTTER LEGEND			
TYPE	I	II	III
A	18"	24"	30"
B	10"	16"	22"
C	5 5/8"	5 5/8"	5 5/8"
D	5"	7"	7"
E	7 3/8"	11 3/8"	17 3/8"

TYPICAL CURB AND GUTTER DETAIL

No Scale

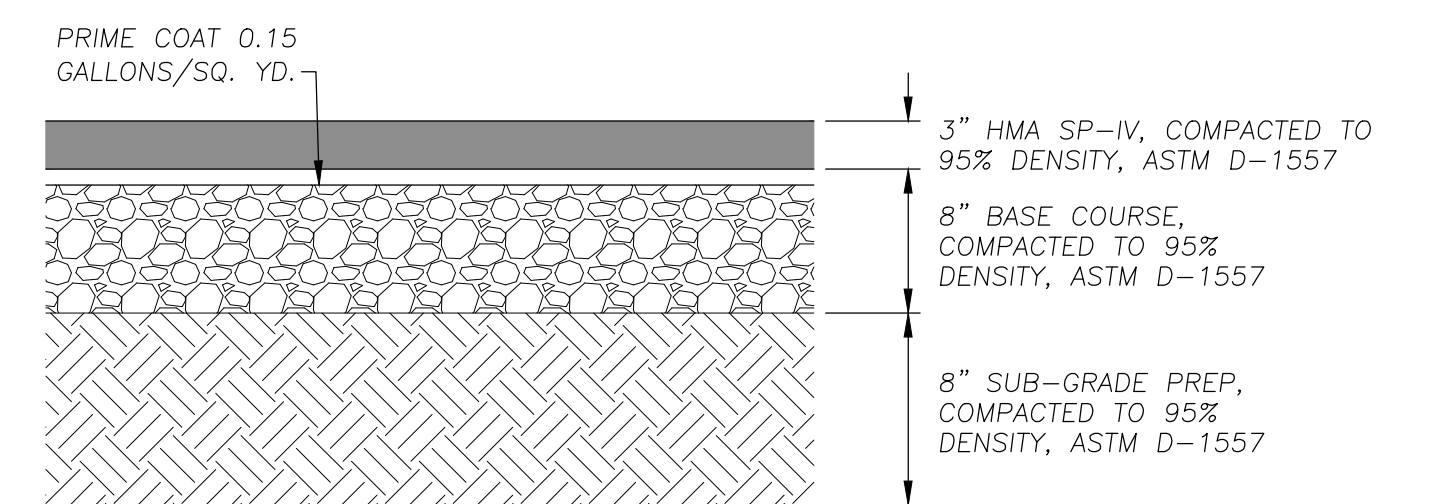
GENERAL NOTES:

- NEW CURB/GUTTER PROFILE SHALL MATCH EXISTING ADJACENT CURB AND GUTTER AND/OR STREET PROFILE.
- NEW CURB/GUTTER SHALL INCLUDE 8-INCH SUB-GRADE PREP.
- NEW CURB/GUTTER SHALL INCLUDE 6-INCH BASE COURSE.
- EDGES OF CURB/GUTTER NOT SPECIFICALLY DIMENSIONED SHALL BE EDGED WITH A 3/8" EDGING TOOL.
- DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
- PROVIDE CONTROL JOINTS EVERY 5'-0". CONTROL JOINT SHALL BE TOOL JOINTED WITH TOP ROUND EDGE OF 1/8"-INCH RADIUS, DEPTH OF 1"-INCH. THE FINISH JOINT OPENING EXCLUDING RADIUS SHALL NOT BE WIDER THAN 1/8"-INCH.
- PROVIDE 1/2" EXPANSION JOINTS EVERY 50'-0", ALONG CURB AND GUTTER.
- TACK COAT EDGE OF GUTTER PRIOR TO PLACEMENT OF NEW PAVEMENT/PAVEMENT PATCH.
- THE CONSTRUCTION OF CURB & GUTTER AND/OR PAVEMENT SHALL BE CONSTRUCTED SO THAT THE GUTTER FLOW WILL BE CONSTANT (NO PONDING AREAS WILL BE ACCEPTED).



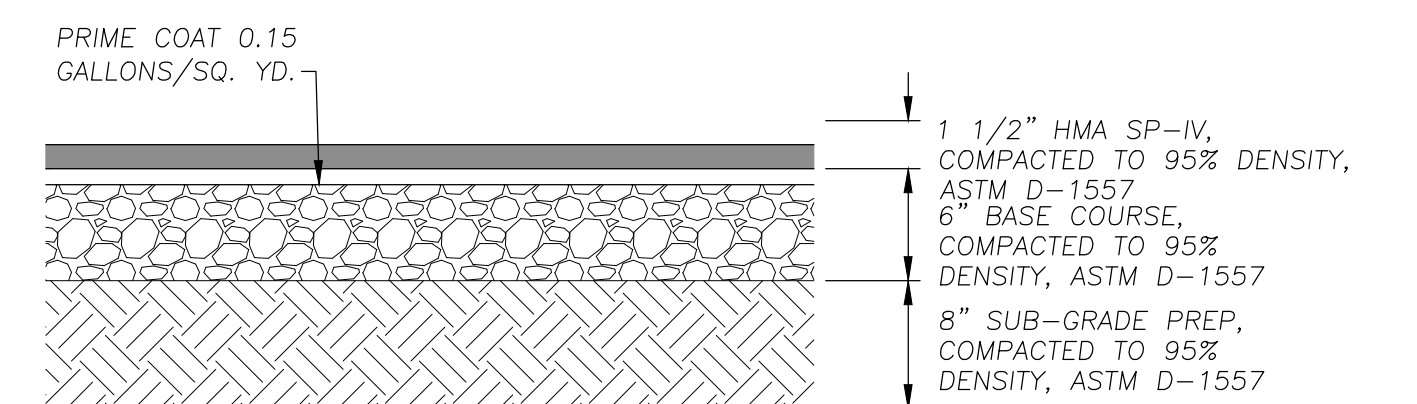
2-inch Pavement Mill/Overlay Section

No Scale



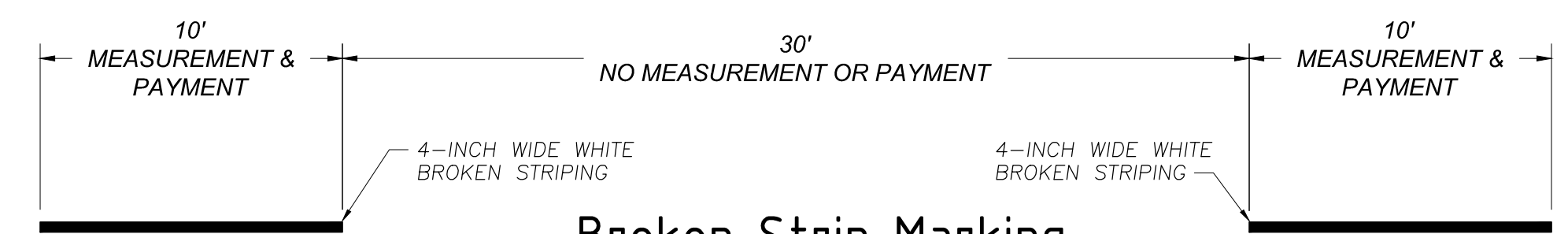
Typical Pavement Section

No Scale



Channel Pavement Section

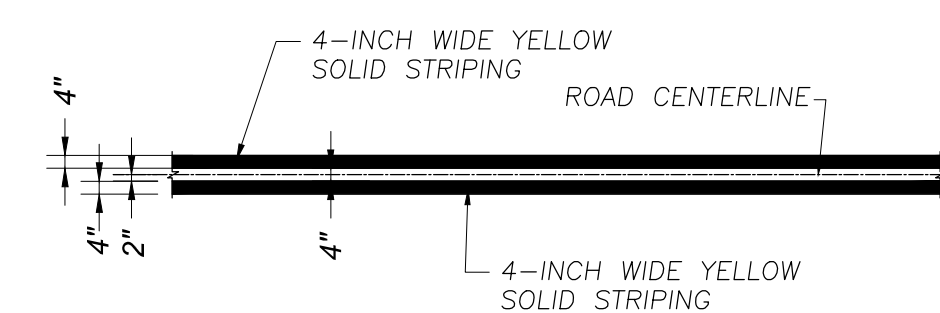
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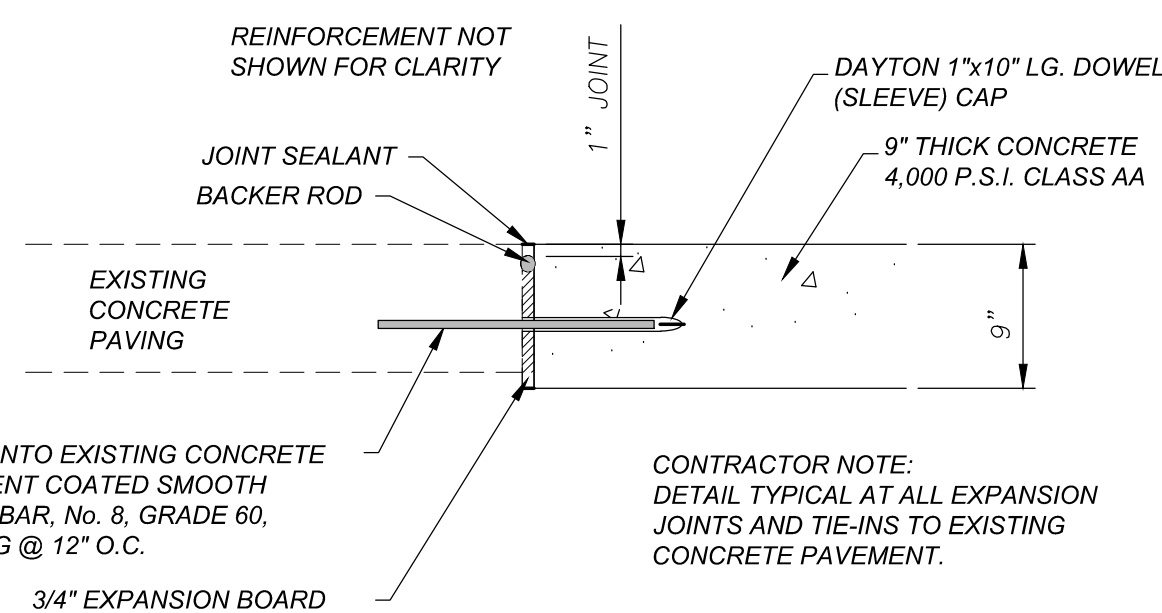
Broken Strip Marking

CONTRACTOR NOTE:

- CROSSWALK AND STOP BARS SHALL BE 3M-N380 PREFORMED PATTERNED MARKING OR APPROVED EQUAL (O.A.E.).
- ALIGN CROSSWALK WITH CENTERLINE OF WHEEL PATH, COORDINATE WITH OWNER PRIOR TO INSTALLATION.
- SYMBOLS AND LEGENDS SHALL BE 3M-380IES PREFORMED PATTERNED MARKING O.A.E.
- BROKEN STRIPING, DOUBLE STRIPING AND SINGLE STRIPING SHALL BE 90 MIL HOT THERMOPLASTIC PAVEMENT STRIPING.
- MEASUREMENT AND PAYMENT FOR BROKEN STRIPING (10 LF) SHALL BE CALCULATED BY MATERIAL USED.

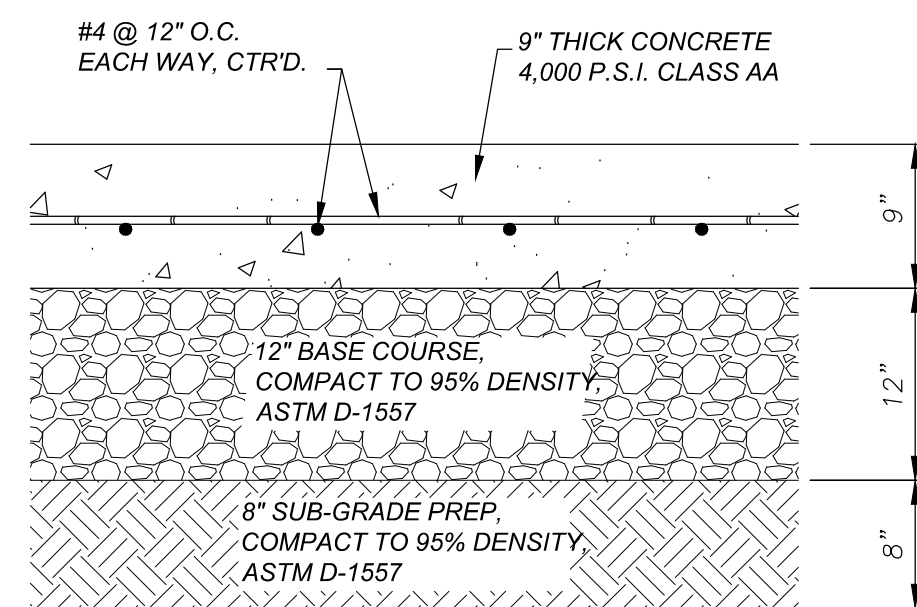


Double Yellow Marking



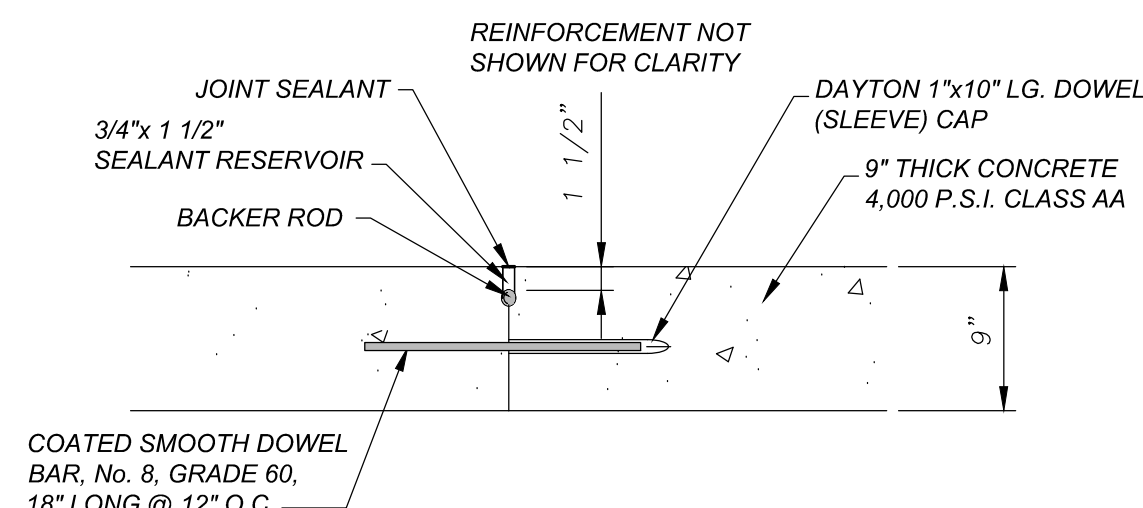
Doweled Expansion Joint Detail

No Scale



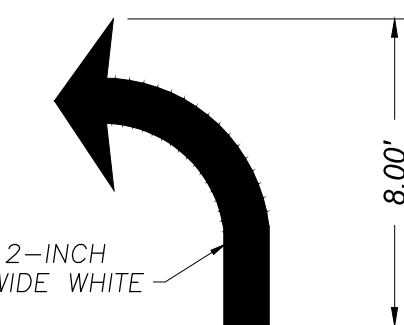
9" Concrete Pavement Section

No Scale

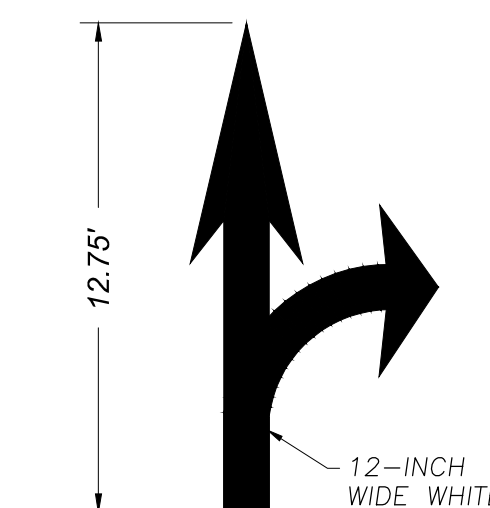


Doweled Construction Joint Detail

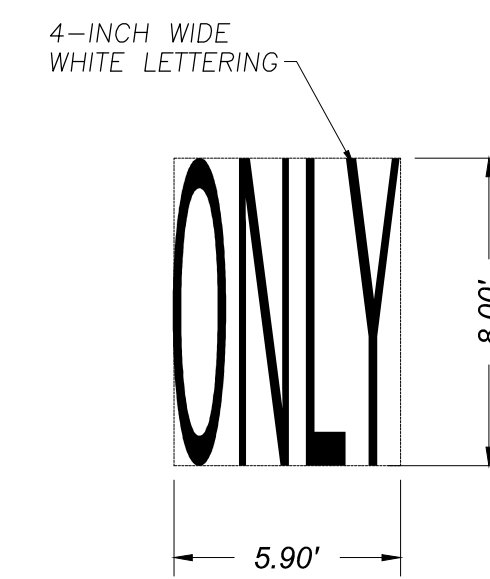
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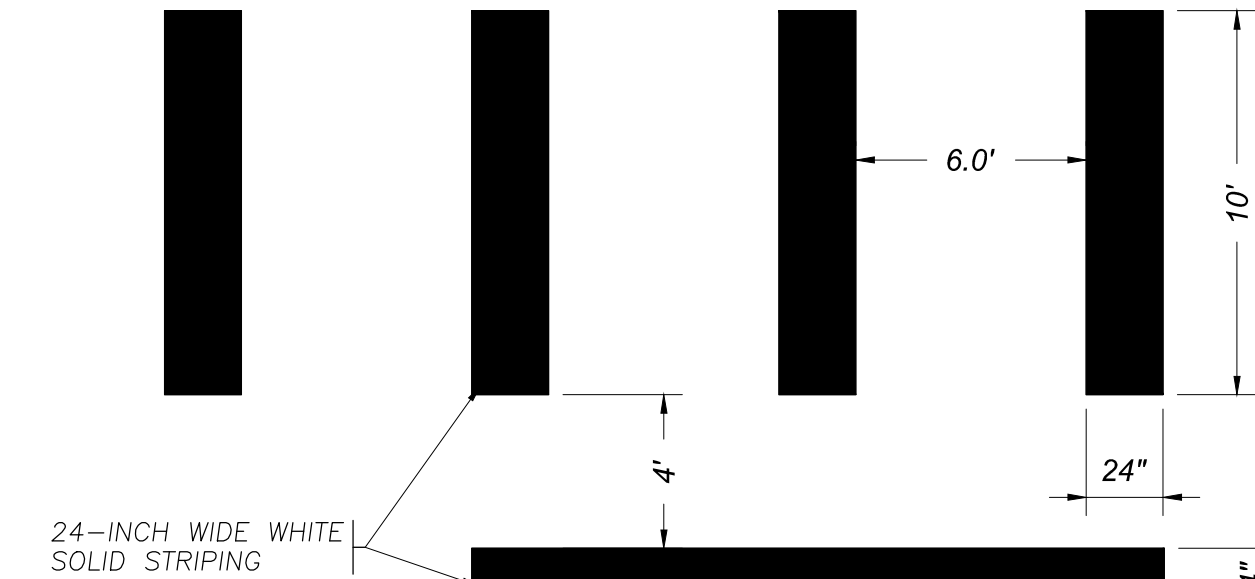
Turn Arrow



Combo Arrow



Word " ONLY "



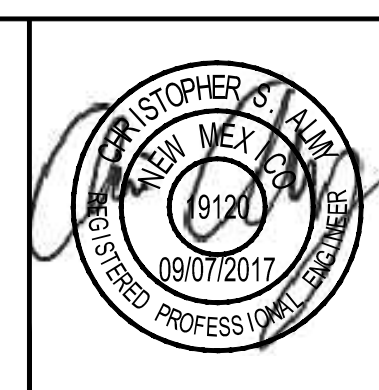
Crosswalk and Stop Bar

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