

File Path: P:\MWA\2018\151861\151861_03-14-2018_Plot Date: 03-14-2018
File Name: 151861_SH1_AB.DWG Plot Time: 3:22 pm

• L E G E N D •

MATERIALS

CONCRETE

RIP-RAP

LINES

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

PROPERTY LINE (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE

EARTHWORK

CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

FLOWLINE

DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE

UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET

SANITARY SEWER

SANITARY SEWER LINE

SANITARY SEWER MANHOLE

SAS SERVICE CONNECTIONS

SAS CAP OR PLUG

ENCASEMENT

WATER

WATER LINE

WATER SERVICE CONNECTIONS

GATE VALVE

FIRE HYDRANT

BUTTERFLY VALVE

REDUCER

WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

CAPS AND PLUGS

ELBOW

CROSS

TEE

MISCELLANEOUS

CHAINLINK FENCE

FIELD FENCE

COMMON YARD WALL

RETAINING WALL

POWER OR TELEPHONE POLE

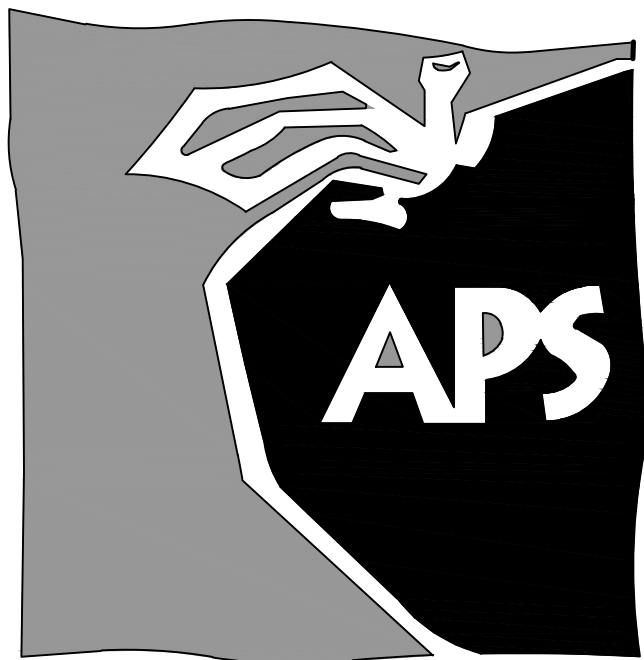
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SCANNED BY
PLANNING



RECORD DRAWING

CONSTRUCTION PLANS
for
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO
JANUARY, 2017



ENGINEER'S CERTIFICATION

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THE INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS DATED 02-13-2017. THE RECORD INFORMATION EDITED ONTO THIS ORIGINAL DESIGN DOCUMENT IS FROM THE AS-BUILT SURVEY CONDUCTED 02-06-2018, UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., NMPS 11184, OF THE FIRM HIGH MESA CONSULTING GROUP, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF DESIGN INTENT OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY OF ALBUQUERQUE

J. Graeme Means
J. GRAEME MEANS, NMPE NO. 13676

4/3/2018
DATE

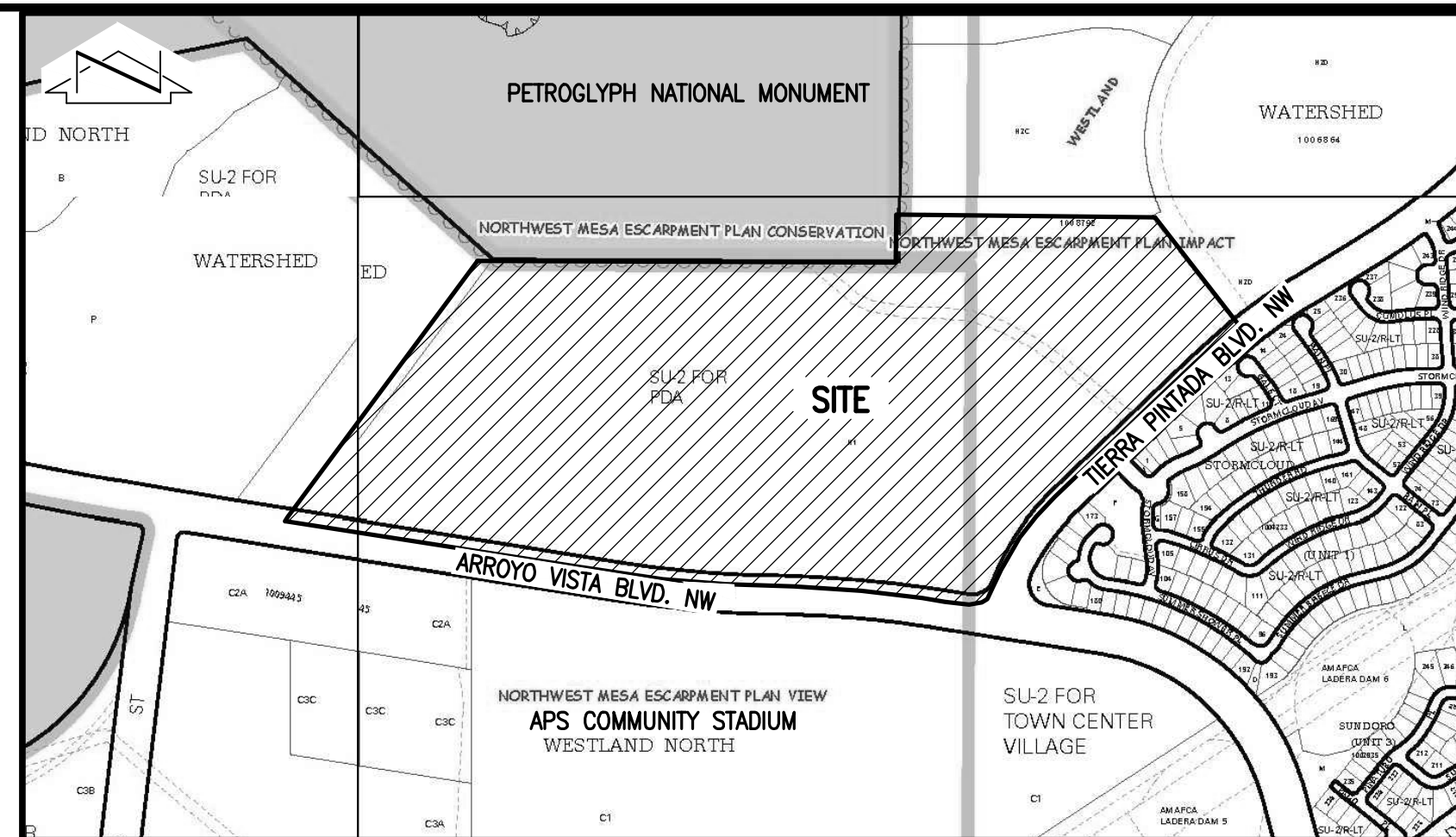
INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	PLAT
2a-2b	EASEMENT SURVEY
3	OVERALL WATER LINE IMPROVEMENTS PLAN
4	PLAN AND PROFILE LINE 'A' STA 09+70 TO STA 13+00.00
5	PLAN AND PROFILE LINE 'A' STA 13+00.00 TO STA 16+90.00
6	PLAN AND PROFILE LINE 'A' STA 16+90.00 TO STA 21+22.00
7	PLAN AND PROFILE LINE 'A' STA 21+22.00 TO STA 25+85.00
8	PLAN AND PROFILE LINE 'A' STA 25+36.00 TO STA 29+91.37
9	PLAN AND PROFILE LINE 'B' STA 10+00.00 TO STA 14+45.00
10	PLAN AND PROFILE LINE 'B' STA 14+45.00 TO STA 18+80.00
11	PLAN AND PROFILE LINE 'B' STA 18+80.00 TO STA 23+00.84
12	PLAN AND PROFILE LINE 'C' STA 09+70 TO STA 12+56.22
13	PLAN AND PROFILE LINE 'D' STA 10+00.00 TO STA 12+87.74
14	SECTIONS AND DETAILS, WATER VALVE SHUTOFF PLAN
15	EROSION AND SEDIMENT CONTROL PLAN

This set of drawings is accepted for RECORD
Purposes by *[Signature]*
on 7/24/2018 ABCWUA ENGINEER

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER

DATE: _____



VICINITY MAP

SCALE: 1" = 750'

H-7/H-8/J-7/J-8

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR APPROVED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS CONSTRUCTION-1986-UPDATE NO. 9.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES.
- UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, CITY OF ALBUQUERQUE AND ABCWUA DISTRIBUTION MAPS, SCHOOL FILES OF THE ALBUQUERQUE PUBLIC SCHOOLS, DESIGN AND CONSTRUCTION, AND UTILITY LINE-SPOTS PROVIDED BY ONPOINT UTILITY LOCATING SERVICES, FIELD DESIGNATION REPORT DATED 05-05-2015. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NOS. 2015191272, 2015191283 AND 2015191289). UTILITY LINES THAT APPEAR ON THESE DRAWINGS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE OR PER COA STANDARD DRAWING 2465, WHICHEVER IS MORE STRINGENT.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abcwua.org/Water_Shut_off_and_Turn_on_Procedures.aspx.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS DOUGLAS COFF, OFFICE PHONE 505-724-3137, CELL PHONE 505-206-0151, AND EMAIL DOUG@ABCWUA.GOV.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.
- ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY MAY REQUIRE TWENTY-FOUR HOUR CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- WHEN APPLICABLE, CONTRACTOR SHALL, ON BEHALF OF THE OWNER AND OPERATORS, SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
- ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.

2016.181.6
JOB NO. 2015-186.T

ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		*****	
<i>[Signature]</i>		BMC Chairman		<i>[Signature]</i>		3/11/17		APPROVED FOR CONSTRUCTION	
		Transportation		<i>[Signature]</i>		2/22/17			
		Water/Wastewater		<i>[Signature]</i>		2/22/17			
		Hydrology		<i>[Signature]</i>		2/22/17			
		CIP							
		Const. Mngt.							
		Const. Coord.							
		City Project No.		650292		SHEET		1 OF 15	

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

EASEMENT DESCRIPTION
A certain tract of land located within the Corporate Limits of the City of Albuquerque, New Mexico, comprising a portion of the Tract N-1, Watershed Subdivision, as the same is shown and designated on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on May 09, 2012, Plat Book 2012C, Page 58, Document No. 2012047202, and being more particularly described as follows:

Beginning at a southeastern corner of the outermost easement line herein described, being the point on the southeastern property line of said Tract N-1, also being a point on the northwestern right-of-way line of Tierra Pintada Boulevard N.W.; whence a southeastern property corner of said Tract N-1 bears along an arc of a curve to the right with Delta = 09°06'12", R = 1164.00 feet and L = 184.94 feet, (Chord Bearing = N 41°39'37" E, Chord Length = 184.74 feet); thence along an arc of a curve to the left with Delta = 00°59'07", R = 1164.00 feet and L = 20.02 feet, (Chord Bearing = S 36°36'57" W, Chord Length = 20.02 feet) along said northwestern right-of-way line; thence N 51°08'33" W a distance of 198.37 feet; thence N 00°0'00" E a distance of 57.86 feet; thence S 90°00'00" W a distance of 255.69 feet; thence N 45°00'00" W a distance of 260.36 feet to the westernmost corner of the easement herein described; thence N 45°00'00" E a distance of 65.97 feet; thence N 00°00'00" E a distance of 270.99 feet; thence N 22°30'00" E a distance of 28.12 feet; thence N 45°00'00" E a distance of 194.16 feet; thence N 45°00'00" W a distance of 8.00 feet; thence N 45°00'00" E a distance of 10.00 feet; thence S 45°00'00" E a distance of 8.00 feet; thence N 45°00'00" E a distance of 154.04 feet; thence N 00°00'00" E a distance of 86.54 feet; thence S 90°00'00" W a distance of 8.00 feet; thence N 00°00'00" E a distance of 10.00 feet; thence N 90°00'00" E a distance of 8.00 feet; thence N 00°00'00" W a distance of 13.00 feet; thence S 45°59'29" E a distance of 29.22 feet; thence N 89°38'14" W a distance of 53.41 feet; thence N 70°00'00" E a distance of 277.20 feet; thence N 90°00'00" E a distance of 226.34 feet to the northeastern corner of the easement herein described; thence S 00°00'00" E a distance of 421.02 feet; thence N 90°00'00" E a distance of 13.00 feet; thence S 00°00'00" E a distance of 10.00 feet; thence S 90°00'00" W a distance of 13.00 feet; thence S 00°00'00" E a distance of 295.17 feet; thence N 90°00'00" E a distance of 10.00 feet; thence S 00°00'00" E a distance of 10.00 feet; thence S 90°00'00" W a distance of 10.00 feet; thence S 45°00'00" W a distance of 17.33 feet; thence 10.17 feet; thence S 45°00'00" W a distance of 17.33 feet; thence S 45°59'29" E a distance of 29.22 feet; thence N 89°38'14" W a distance of 98.53 feet; thence S 45°00'00" E a distance of 77.40 feet to the southeastern corner of the easement herein described, being a point on the northwestern right-of-way line of Tierra Pintada Boulevard N.W.; thence S 46°12'43" W a distance of 20.00 feet along said northwestern right-of-way line; whence the aforementioned southeastern property corner of Tract N-1 bears S 46°12'43" W a distance of 299.33 feet; thence continuing as an easement N 45°00'00" W a distance of 68.61 feet; thence S 89°38'14" W a distance of 67.35 feet; thence S 44°38'14" W a distance of 319.02 feet; thence S 90°00'00" W a distance of 145.29 feet; thence S 00°00'00" E a distance of 48.29 feet; thence S 51°08'33" E a distance of 188.02 feet to the outermost easement line point of beginning.

Beginning at a southeastern point of the inside easement line, whence the aforementioned southeastern property corner of Tract N-1 bears S 69°58'18" E a distance of 140.80 feet; thence continuing as an easement S 90°00'00" W a distance of 77.86 feet; thence N 00°00'00" E a distance of 32.75 feet; thence S 90°00'00" W a distance of 20.00 feet; thence S 00°00'00" E a distance of 15.00 feet; thence S 90°00'00" W a distance of 12.00 feet; thence S 00°00'00" E a distance of 17.75 feet; thence N 90°00'00" W a distance of 294.47 feet; thence N 45°00'00" W a distance of 232.08 feet to the westernmost corner of the easement herein described; thence N 45°00'00" E a distance of 54.26 feet; thence N 00°00'00" E a distance of 275.29 feet; thence N 22°30'00" E a distance of 5.23 feet;

HIGH MESA Consulting Group

Engineers, Surveyors & Scientists Utility Consultants

6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesagroup.com
JOB NO. 2015.186.2 EASE1

SHEET 1 OF 7

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

BOUNDARY TABLES

LINE	DIRECTION	DISTANCE
L1	N 00°15'47" E	206.75'
L2	S 00°18'17" E	206.78'
L3	S 38°09'16" E	597.05'
L3	N 81°03'35" W	146.64'

CURVE	RADIUS	LENGTH	CHORD	CHORD BEARING	DELTA
C1	2964.00'	291.39'	291.37'	S 49°01'42" W	05°37'58"
C2	1164.00'	502.84'	498.94'	S 33°50'10" W	24°45'05"
C3	100.00'	135.23'	125.16'	S 60°12'02" W	77°28'43"
C4	5090.00'	726.30'	725.69'	N 85°08'41" W	08°10'32"
C5	4922.00'	704.98'	704.38'	N 85°07'58" W	08°12'24"

KEYED NOTES

- EASEMENTS
- ① 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 2000C-316

② 50' FLOATING ACCESS EASEMENT FOR THE BENEFIT OF AMAFCA AND THE NATIONAL PARK SERVICE GRANTED BY PLAT 2000C-316. MAINTENANCE IS THE RESPONSIBILITY OF THE BENEFICIARIES.

④ AMAFCA DRAINAGE EASEMENT GRANTED BY DOCUMENT FILED 08-14-2012, DOC# 2012082560

⑤ CITY OF ALBUQUERQUE STORM DRAIN EASEMENT GRANTED BY DOCUMENT FILED 08-23-2012, DOC# 2012086552

⑥ CITY OF ALBUQUERQUE STORM DRAIN EASEMENT GRANTED BY DOCUMENT FILED 08-23-2012, DOC# 2012086553
- EASEMENT — OFFSITE
- ③ PUBLIC ACCESS AND PUBLIC DRAINAGE EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE BY PLAT 2013C-116 AND MODIFIED BY PLAT 2016C-59

⑦ PUBLIC PEDESTRIAN AND ACCESS EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE FOR THE BENEFIT OF TRACT N-1 BY PLAT 2016C-59
- MONUMENTS
- ⑧ FOUND BLM BRASS CAP STAMPED "PNM AP19, 1990", TAGGED W/WASHER STAMPED "NMPS 11184"

⑨ FOUND BLM BRASS CAP STAMPED "PNM AP18, 1990", TAGGED W/WASHER STAMPED "NMPS 11184"

⑩ FOUND #5 REBAR W/CAP STAMPED "PS 16469", TAGGED W/WASHER STAMPED "NMPS 11184"

⑪ FOUND #5 REBAR, NO I.D., (BENT), UNDER SIDEWALK, REPLACED WITH CHISELED "4" IN CONCRETE SIDEWALK

⑫ FOUND #5 REBAR W/CAP STAMPED "NEW MEXICO PS 11184"

⑬ FOUND CHISELED "4" IN CONCRETE SIDEWALK

Doc # 2017077163; Recorded: 08/10/2017

SHEET 3 OF 7

HIGH MESA Consulting Group

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Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesagroup.com
JOB NO. 2015.186.2 EASE1

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

EASEMENT DESCRIPTION — CONTINUED
thence S 67°30'00" E a distance of 23.00 feet; thence N 22°30'00" E a distance of 10.00 feet; thence N 67°30'00" W a distance of 23.00 feet; thence N 22°30'00" E a distance of 4.93 feet; thence N 45°00'00" E a distance of 362.51 feet; thence N 00°00'00" E a distance of 144.23 feet; thence N 70°00'00" E a distance of 259.67 feet; thence N 90°00'00" E a distance of 202.81 feet to the northeast corner of the easement herein described; thence S 00°00'00" E a distance of 73.67 feet; thence S 90°00'00" W a distance of 10.00 feet; thence S 00°00'00" E a distance of 10.00 feet; thence S 00°00'00" E a distance of 634.40 feet; thence S 45°00'00" W a distance of 6.62 feet; thence S 90°00'00" W a distance of 266.32 feet; thence N 00°00'00" E a distance of 12.70 feet; thence S 90°00'00" W a distance of 10.00 feet; thence S 00°00'00" E a distance of 32.70 feet; thence N 90°00'00" E a distance of 284.25 feet; thence S 45°59'29" E a distance of 54.01 feet; thence S 44°38'14" W a distance of 288.78 feet to the inside easement point of beginning. The new public water line easement described above contains 1.7820 acres more or less.

- Notes:
- An Easement Survey was performed in February, 2017 verifying a Boundary Survey performed by this firm in May, 2015. Property corners were found as indicated.
 - Site located within projected Sections 17 and 18, Township 10 North, Range 2 East, N.M.P.M. (Town of Arisco Grant).
 - All distances are ground distances.
 - Bearings shown hereon are New Mexico State Plane Grid Bearings, Central Zone (NAD 83). These bearings are positioned from AGRS Control Station "REWARD". Record bearings and distances are shown in parenthesis.
 - Purpose of this survey is to describe the new public water line easement being granted to the Albuquerque Bernalillo County Water Utility Authority.
 - The southeastern sides of the easement described hereon, shall lengthen or shorten to intersect with the northwestern right-of-way line of Tierra Pintada Boulevard N.W., as shown.

SURVEYORS CERTIFICATION

I, Charles G. Cala, Jr., New Mexico Professional Surveyor No. 11184, do hereby certify; that this easement survey and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that this survey meets the Minimum Standards for Surveying in New Mexico, and that it is true and correct to the best of my knowledge and belief.

Charles G. Cala, Jr.

11184

REGISTERED PROFESSIONAL SURVEYOR

NEW MEXICO

CHARLES G. CALA, JR.

July 19, 2017
Date

HIGH MESA Consulting Group

Engineers, Surveyors & Scientists Utility Consultants

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EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY

EASEMENT TABLES

LINE	DIRECTION	DISTANCE	LINE	DIRECTION	DISTANCE
E55	S 00°00'00" E	421.02'	E55	S 00°00'00" E	421.02'
E56	N 90°00'00" E	13.00'	E56	N 90°00'00" E	13.00'
E57	S 00°00'00" E	10.00'	E57	S 00°00'00" E	10.00'
E58	S 90°00'00" W	13.00'	E58	S 90°00'00" W	13.00'
E59	S 00°00'00" E	285.17'	E59	S 00°00'00" E	285.17'
E60	N 90°00'00" E	10.00'	E60	N 90°00'00" E	10.00'
E61	S 00°00'00" E	10.00'	E61	S 00°00'00" E	10.00'
E62	S 90°00'00" W	10.00'	E62	S 90°00'00" W	10.00'
E63	S 45°00'00" W	17.33'	E63	S 45°00'00" W	17.33'
E64	S 45°39'29" E	29.22'	E64	S 45°39'29" E	29.22'
E65	N 89°38'14" E	98.53'	E65	N 89°38'14" E	98.53'
E66	S 45°00'00" E	77.40'	E66	S 45°00'00" E	77.40'
E67	S 46°12'43" W	20.00'	E67	S 46°12'43" W	20.00'
E68	N 45°00'00" W	88.61'	E68	N 45°00'00" W	88.61'
E69	S 90°00'00" E	67.35'	E69	S 90°00'00" E	67.35'
E70	S 44°38'14" W	319.02'	E70	S 44°38'14" W	319.02'
E71	S 90°00'00" W	145.29'	E71	S 90°00'00" W	145.29'
E72	S 00°00'00" E	48.29'	E72	S 00°00'00" E	48.29'
E73	S 51°08'33" E	188.02'	E73	S 51°08'33" E	188.02'
E74	S 44°38'14" W	288.78'	E74	S 44°38'14" W	288.78'
E75	S 90°00'00" W	77.86'	E75	S 90°00'00" W	77.86'
E76	N 00°00'00" E	32.75'	E76	N 00°00'00" E	32.75'
E77	N 00°00'00" E	20.00'	E77	N 00°00'00" E	20.00'
E78	S 00°00'00" E	15.00'	E78	S 00°00'00" E	15.00'
E79	S 00°00'00" E	12.00'	E79	S 00°00'00" E	12.00'
E80	S 00°00'00" E	17.75'	E80	S 00°00'00" E	17.75'
E81	S 00°00'00" E	294.47'	E81	S 00°00'00" E	294.47'
E82	N 45°00'00" W	54.26'	E82	N 45°00'00" W	54.26'
E83	N 45°00'00" E	275.29'	E83	N 45°00'00" E	275.29'
E84	N 22°30'00" E	5.23'	E84	N 22°30'00" E	5.23'
E85	S 67°30'00" E	23.00'	E85	S 67°30'00" E	23.00'
E86	N 22°30'00" E	23.00'	E86	N 22°30'00" E	23.00'
E87	N 67°30'00" W	23.00'	E87	N 67°30'00" W	23.00'
E88	N 22°30'00" E	4.93'	E88	N 22°30'00" E	4.93'
E89	N 45°00'00" E	144.23'	E89	N 45°00'00" E	144.23'
E90	N 00°00'00" E	259.67'	E90	N 00°00'00" E	259.67'
E91	N 90°00'00" E	202.81'	E91	N 90°00'00" E	202.81'
E92	S 00°00'00" E	73.67'	E92	S 00°00'00" E	73.67'
E93	S 90°00'00" W	10.00'	E93	S 90°00'00" W	10.00'
E94	S 00°00'00" E	10.00'	E94	S 00°00'00" E	10.00'
E95	S 00°00'00" E	634.40'	E95	S 00°00'00" E	634.40'
E96	S 45°00'00" W	6.62'	E96	S 45°00'00" W	6.62'
E97	S 90°00'00" W	266.32'	E97	S 90°00'00" W	266.32'
E98	N 00°00'00" E	12.70'	E98	N 00°00'00" E	12.70'
E99	S 90°00'00" W	10.00'	E99	S 90°00'00" W	10.00'
E100	S 00°00'00" E	32.70'	E100	S 00°00'00" E	32.70'
E101	N 90°00'00" E	284.25'	E101	N 90°00'00" E	284.25'
E102	S 45°59'29" E	54.01'	E102	S 45°59'29" E	54.01'
E103	N 02°54'52" W	186.48'	E103	N 02°54'52" W	186.48'
E104	S 89°58'18" E	140.80'	E104	S 89°58'18" E	140.80'

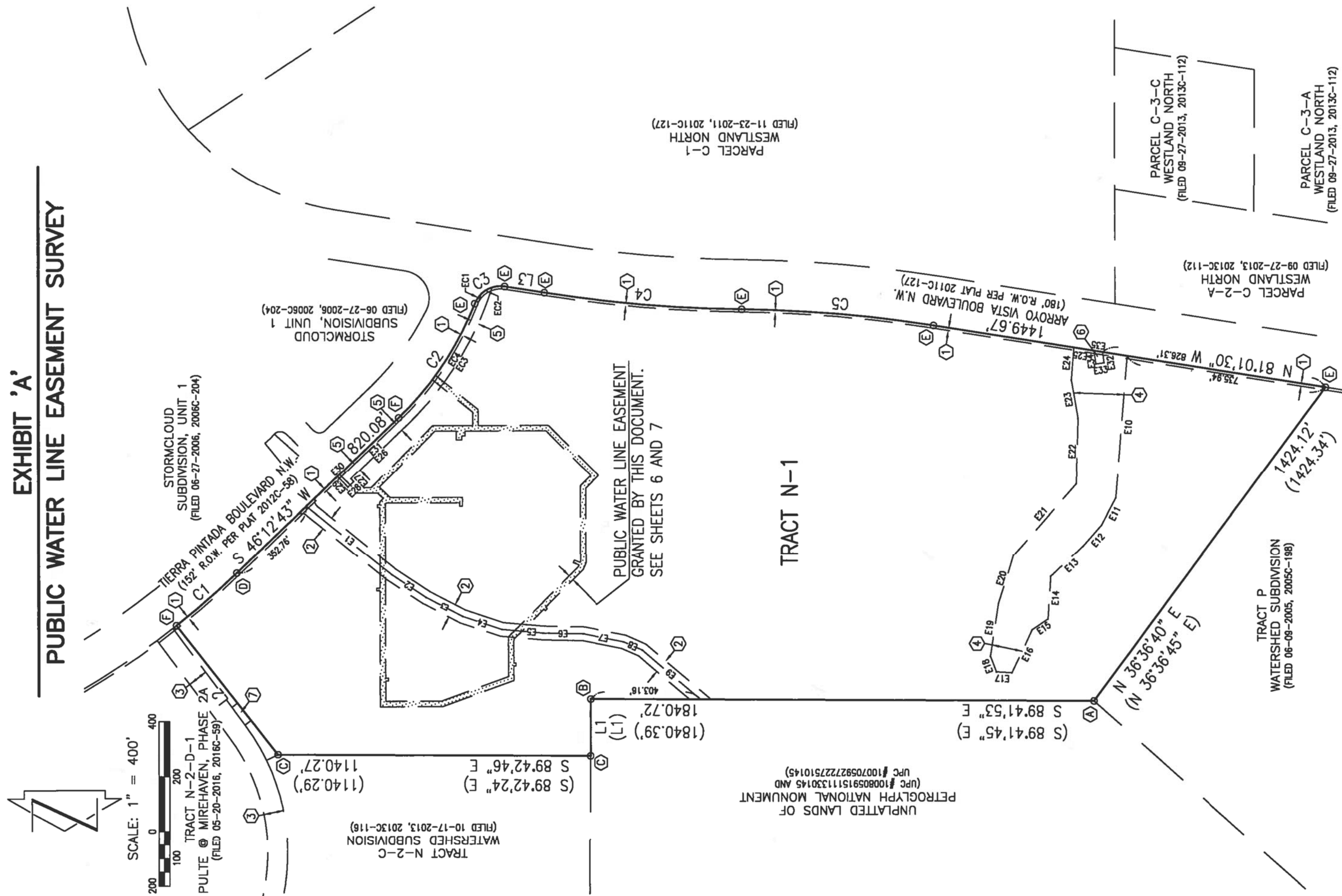
CURVE	RADIUS	LENGTH	CHORD	CHORD BEARING	DELTA
EC1	100.00'	43.35'	43.01'	N 33°52'42" E	25°50'09"
EC2	100.00'	46.18'	45.77'	S 59°11'33" W	26°27'32"
EC3	1204.00'	598.21'	592.08'	N 31°58'41" E	28°28'03"
EC4	1174.00'	549.17'	544.18'	S 32°48'40" W	26°48'06"
EC5	1164.00'	20.02'	20.02'	S 36°36'57" W	00°59'07"
EC6	1164.00'	184.94'	184.74'	N 41°39'37" E	09°06'12"

HIGH MESA Consulting Group

Engineers, Surveyors & Scientists Utility Consultants

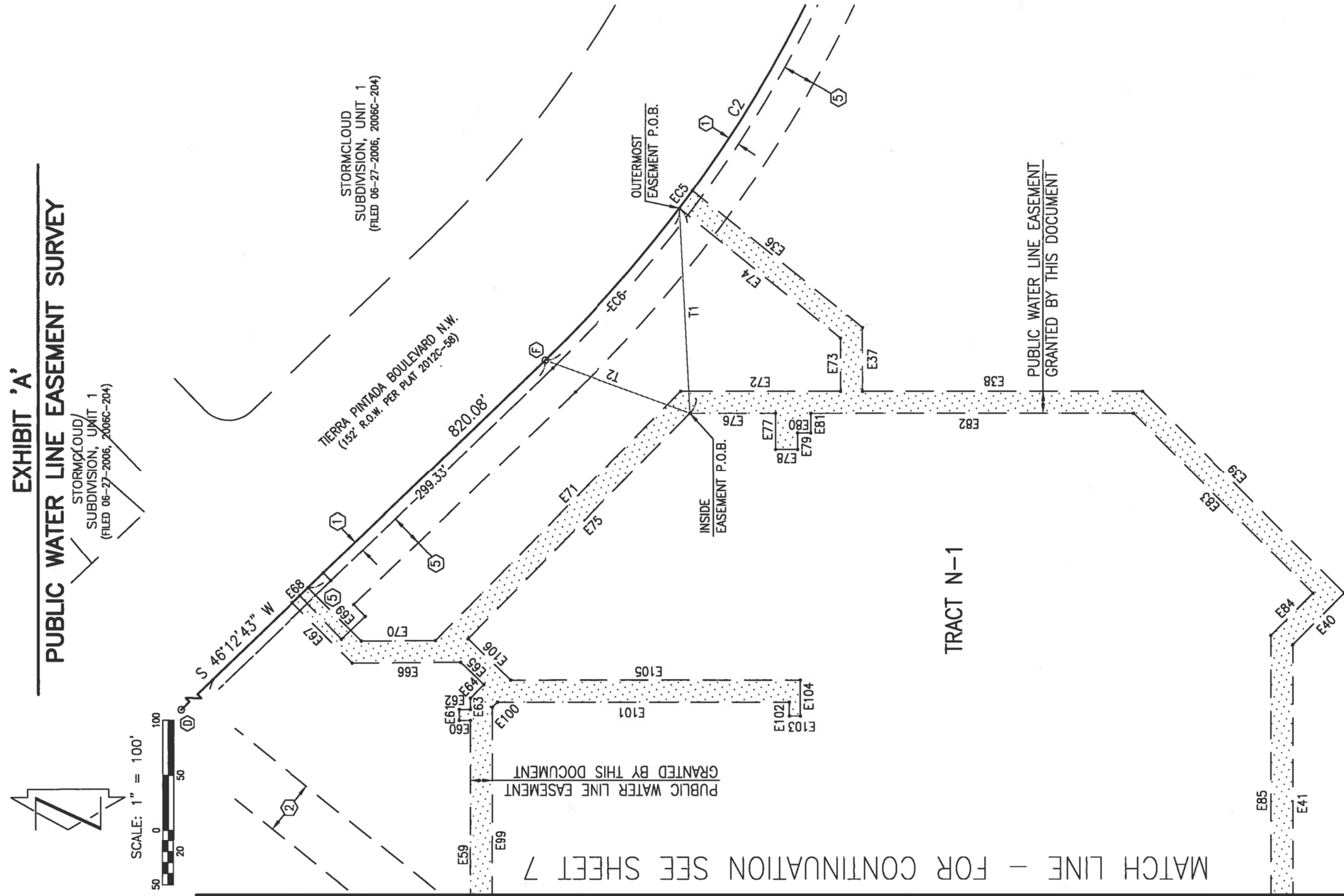
6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesagroup.com
JOB NO. 2015.186.2 EASE1

EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY



HIGH MESA Consulting Group
Engineers, Surveyors & Subdividers
8010-B Midway Park Blvd., NE Albuquerque, New Mexico 87109
Phone: 505.345.4254 • Fax: 505.345.4254 • www.highmesa.com
JOB NO. 2015.186.2 EASE1

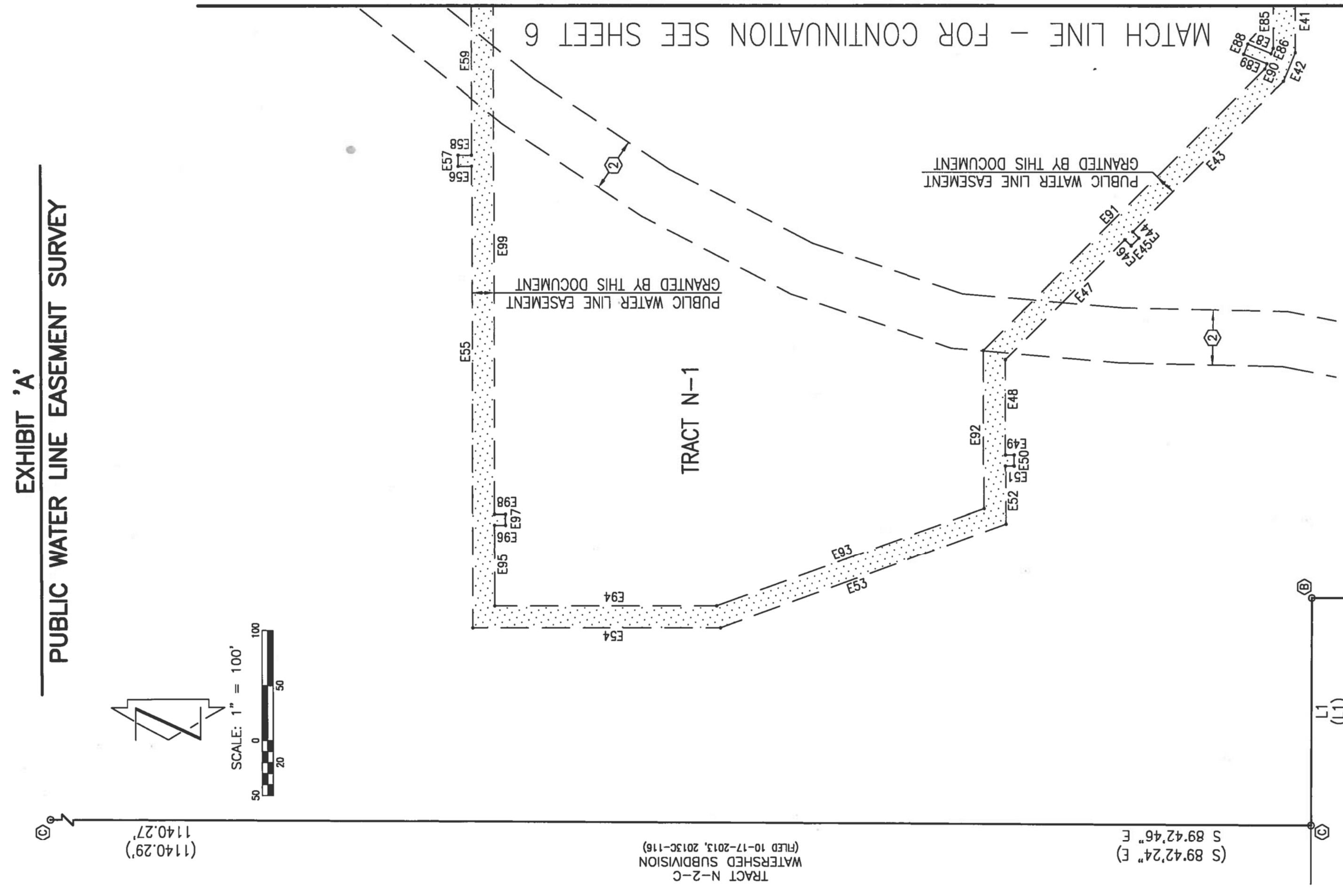
SHEET 5 OF 7



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JOB NO. 2015.186.2 EASE6

SHEET 6 OF 7

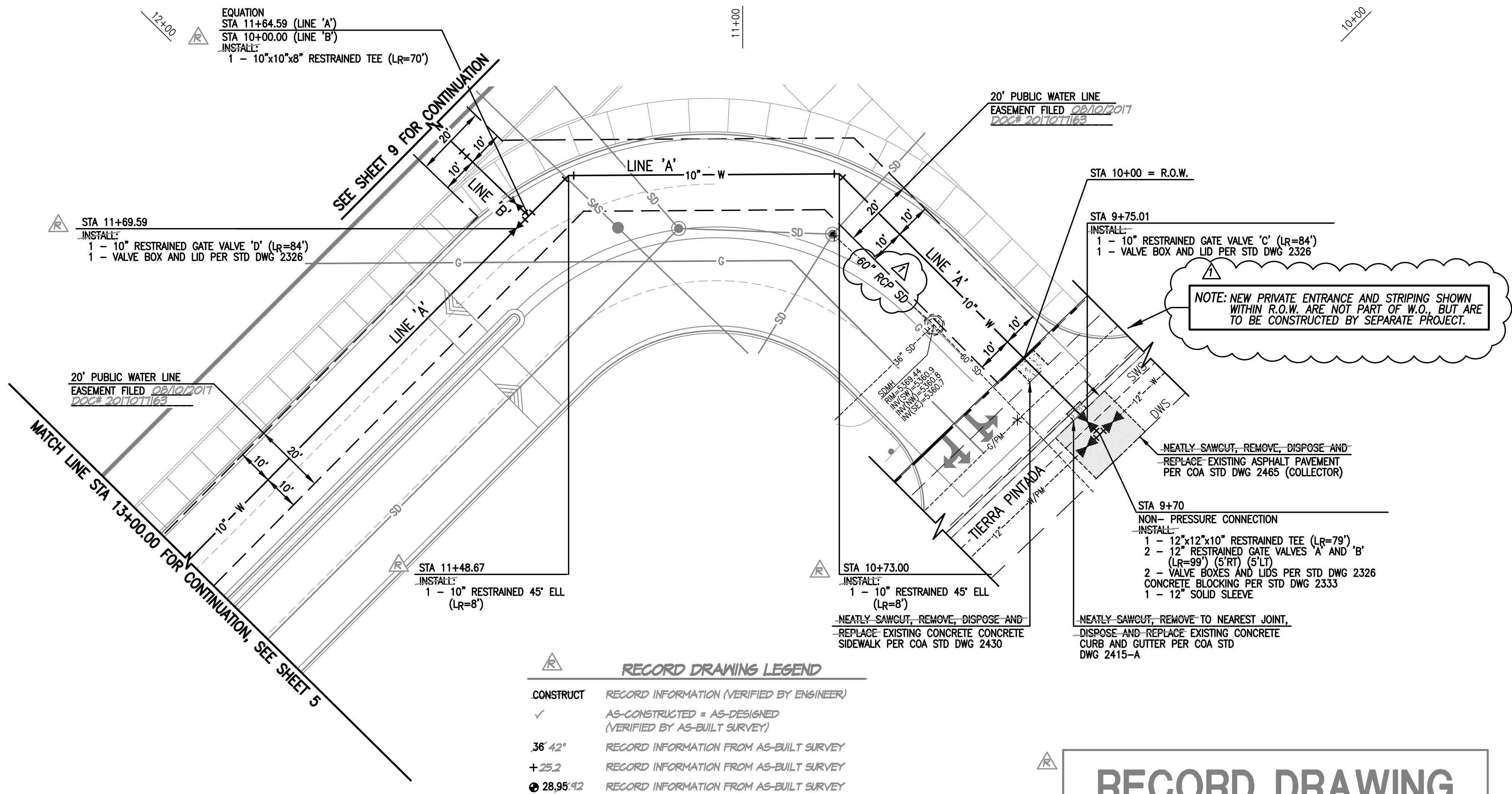
EXHIBIT 'A'
PUBLIC WATER LINE EASEMENT SURVEY



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JOB NO. 2015.186.2 EASE7

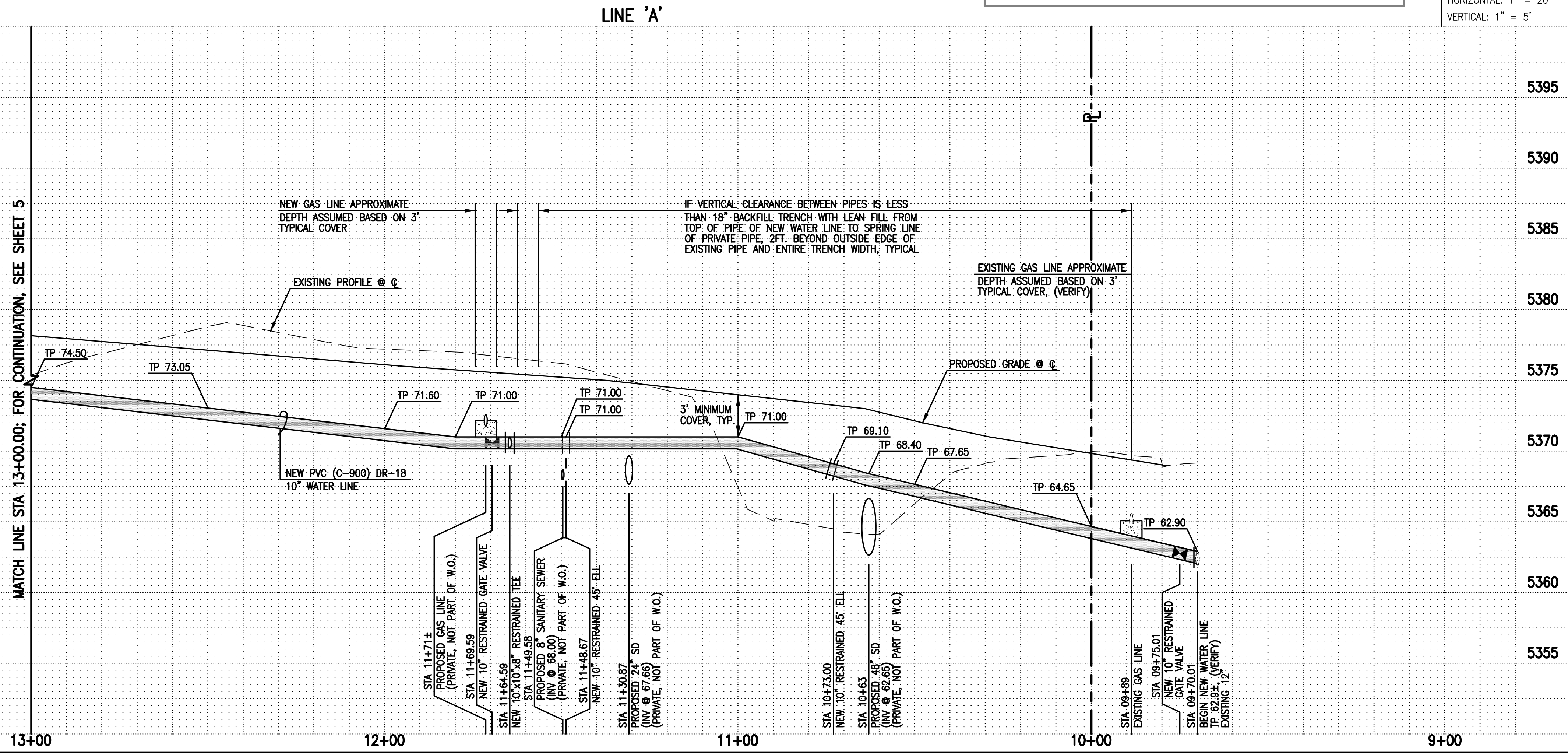
SHEET 7 OF 7

RECORD DRAWING



RECORD DRAWING FOR CERTIFICATION, SEE SHEET 1

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



ELEVATIONS ARE IN NAVD 1988

WATER LINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 DR18 PIPE OR AS APPROVED BY THE WATER AUTHORITY. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- FOR ALL LINES LARGER THAN 12", WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE WATER AUTHORITY. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE) FOR ALL LINES 12" OR SMALLER; 4'-0" MINIMUM COVER FOR LINES 14" OR LARGER. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DEVICES (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION, SECTION 170.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- ALL FIRE HYDRANTS SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATER LINE IS PUT INTO SERVICE BY THE WATER AUTHORITY PERSONNEL.
- NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	USC&GS SURVEY CONTROL BRASS DISC STAMPED "REWARD 1969", SET IN A CONCRETE POST 0.3 FEET ABOVE GROUND APPROXIMATELY 600 FEET NORTHWEST OF THE I-40 AND 98TH STREET N.W. INTERCHANGE. ELEVATION = 5319.688 FEET (NAD 1988)	DATE	NO.	BY	DATE	DATE
INSPECTOR'S NAME	DATE		DATE	2014.181.9	HMCS	1/8/2016	
FIELD VERIFICATION	DATE		DATE				
VERIFICATION BY	DATE		DATE				
CORRECTED BY	DATE		DATE				
RECORDED BY	DATE		DATE				
NO.							

WATER LINE AND FIRE HYDRANT GIS DATA

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
VALVE 'A'	STA 9+70.01 (5'LT)	4491626.32	4490184.84	5364.21
VALVE 'B'	STA 9+70.01 (5'RT)	4491629.67	4490180.43	5365.08
VALVE 'C'	STA 9+75.01	4491629.80	4490184.93	5364.27
VALVE 'D'	STA 11+69.59	4491684.94	4490024.36	5372.62

SURVEY NOTE:

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HIGH MESA Consulting Group
6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com
2015.186.T 2016.181.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **PLAN AND PROFILE LINE 'A'**
STA 09+70 TO STA 13+00.00
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.
APPROVED MAR 01 2017 DESIGN REVIEW COMMITTEE	APPROVED APR 20 2017 CITY ENGINEER	
Last Design Update		



RECORD DRAWING LEGEND	
CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36" 42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+ 25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
28.95' 92	RECORD INFORMATION FROM AS-BUILT SURVEY

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

ITEM	LOCATION	MAD 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
VALVE 'E'	STA 15+54.69	1414174.00	14849224.16	5317.51
VALVE 'F'	STA 15+59.69 (5'RT)	1414176.47	14849232.62	5318.86
VALVE 'G'	STA 15+59.69 (24.06'RT)	14141492.91	14849233.54	5318.52
VALVE 'H'	STA 15+51.70 (32.01'RT)	14141506.01	14849131.42	5318.93
VALVE 'I'	STA 15+59.69 (40.04'RT)	14141513.07	14849233.15	5318.62
VALVE 'J'	STA 15+78.79 (5'RT)	1414176.66	14849104.68	5319.45
VALVE 'K'	STA 15+83.79	1414174.07	14849698.78	5318.17
VALVE 'L'	STA 16+23.76	1414173.45	14849594.20	5318.33
8" FIRE LINE	STA 15+78.79 (25'RT)	N/A	N/A	N/A
3" DOM. SERVICE	STA 15+59.69 (32'RT)	14141505.96	14849233.28	5318.71
2" IRRIG. SFRVICE	STA 15+67.69 (20.6'RT)	14141502.90	14849115.60	5318.74

SURVEY NOTE:

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HIGH MESA Consulting Group
MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com
5-186.1 2016.181.6

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT (	
TITLE:	PLAN AND PROFILE LINE STA 13+00.00 TO STA 16+ APS NW K TO 8 SCH PUBLIC WATER LINE IMPROV

Design Review Committee APPROVED MAR 01 2017 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED APR 20 2017 CITY ENGINEER	Last Design Update
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City Project No.	650292	Zone Map No.	J-7/8
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This profile view illustrates the vertical alignment of a water line. The horizontal axis represents stationing, decreasing from left to right (21+00 to 17+00). The vertical axis represents elevation in feet, ranging from 5365 to 5405. A solid line represents the 'PROPOSED GRADE' and a dashed line represents the 'EXISTING PROFILE'. The proposed grade includes several vertical curve points (TP) and a 3' minimum cover requirement. A new 10-inch PVC water line is shown, with a 45-degree restrained end at station 18+80.30. Match lines at both ends refer to sheets 5 and 7.

Station	Proposed Grade Elevation (ft)	Existing Profile Elevation (ft)	Notes
21+00	5392.00	5392.00	TP 92.00
20+80	5389.70	5389.70	TP 89.70
20+70	5388.10	5388.10	TP 88.10
20+60	5387.00	5387.00	TP 87.00
20+50	5386.70	5386.70	TP 86.70
20+40	5385.95	5385.95	TP 85.95
20+30	5385.20	5385.20	TP 85.20
20+20	5384.80	5384.80	TP 84.80
20+10	5384.30	5384.30	TP 84.30
19+00	5383.50	5383.50	TP 83.50
18+00	5382.35	5382.35	TP 82.35
17+10	5381.25	5381.25	TP 81.25
17+00	5381.00	5381.00	TP 81.00

City Project No. 650292 Zone Map No. J-7/8 Sheet 6 Of 15

WATER LINE CONSTRUCTION

NOTES:

- SURVEY NOTE:

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HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 8710
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacq.com

CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING DEVELOPMENT GROUP	
TITLE:	PLAN AND PROFILE LINE 'A' STA 16+90.00 to STA 21+22.00 APS NW K to 8 SCHOOL PUBLIC WATER LINE IMPROVEMENT

Design Review Committee

APPROVED

MAR 01 2017

DESIGN
REVIEW COMMITTEE

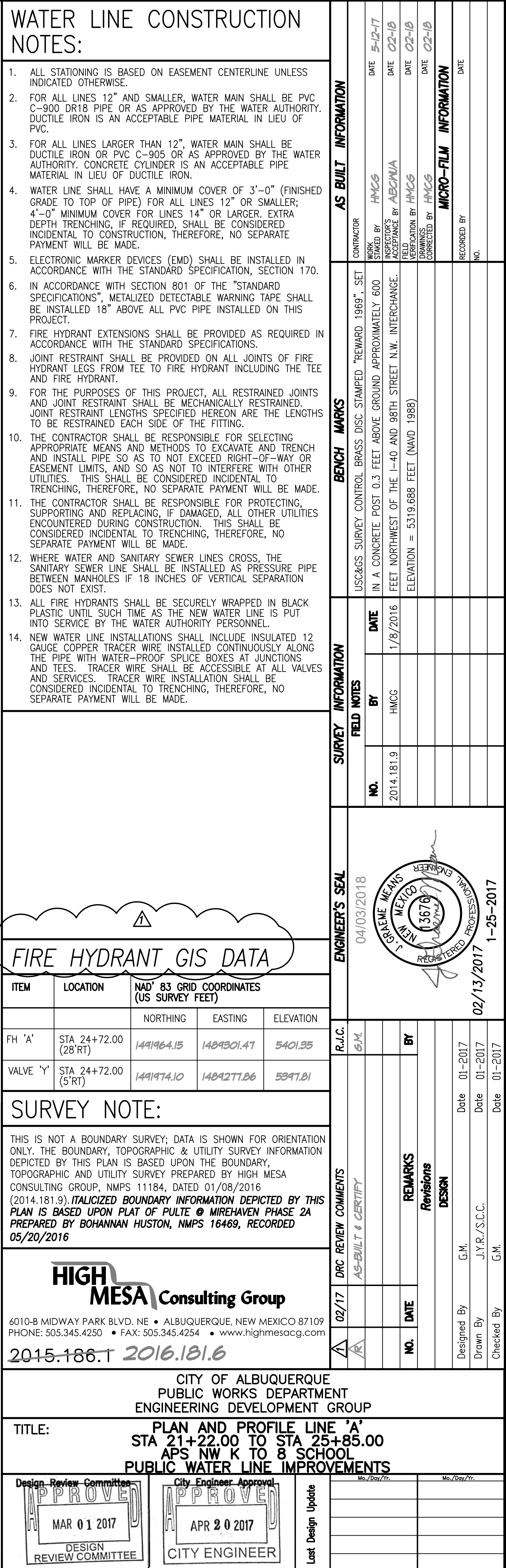
City Engineer Approval

APR 20 2017

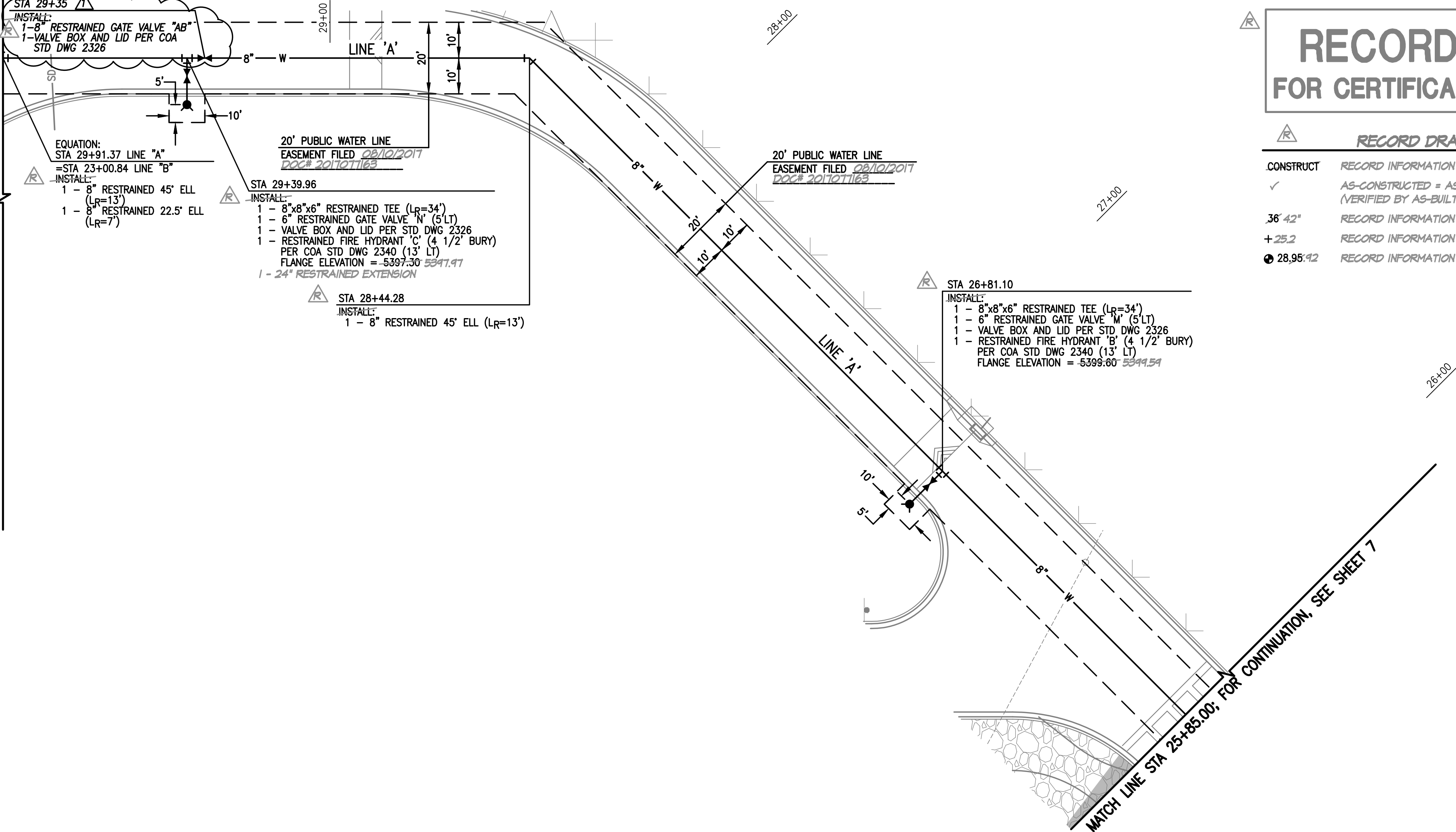
CITY ENGINEER

Fast Design Update

[illegible]



MATCH LINE STA 29+91.37; END LINE 'A'; FOR CONTINUATION SEE SHEET 11



RECORD DRAWING FOR CERTIFICATION, SEE SHEET 1

RECORD DRAWING LEGEND	
CONSTRUCT	RECORD INFORMATION (VERIFIED BY ENGINEER)
✓	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36" 42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
● 28.95' 42"	RECORD INFORMATION FROM AS-BUILT SURVEY

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

WATER LINE CONSTRUCTION NOTES:

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- FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	USCGS SURVEY CONTROL BRASS DISC STAMPED "REWARD 1969", SET IN A CONCRETE POST 0.3 FEET ABOVE GROUND APPROXIMATELY 600 FEET NORTHWEST OF THE I-40 AND 98TH STREET N.W. INTERCHANGE. ELEVATION = 5319.688 FEET (NAD 1988)	DATE	NO.	BY
HMCS	5-19-17		1/8/2016	2014.181.9	HMCS
INSPECTOR'S DATE	DATE				
FIELD DATE	DATE				
VERIFICATION BY	DATE				
CORRECTED BY	DATE				
MICRO-FILM INFORMATION					
RECORDED BY	DATE				
NO.					

WATER LINE AND FIRE HYDRANT GIS DATA

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
FH 'B'	STA 26+81.10 (13' LT)	1492133.64	1489410.52	5399.59
FH 'C'	STA 29+39.96 (13' LT)	1492335.73	1489522.27	5397.97
VALVE 'M'	STA 26+81.10 (5' LT)	1492123.95	1489418.16	5395.99
VALVE 'N'	STA 29+39.96 (5' LT)	1492336.05	1489532.58	5397.92
VALVE 'AB'	STA 29+35	1492330.40	1489534.68	5393.35

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PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2015.186.T 2016.181.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **PLAN AND PROFILE LINE 'A'
STA 25+85.00 TO STA 29+91.37
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS**

Design Review Committee
APPROVED
MAR 01 2017
DESIGN REVIEW COMMITTEE

City Engineer Approval
APPROVED
APR 20 2017
CITY ENGINEER

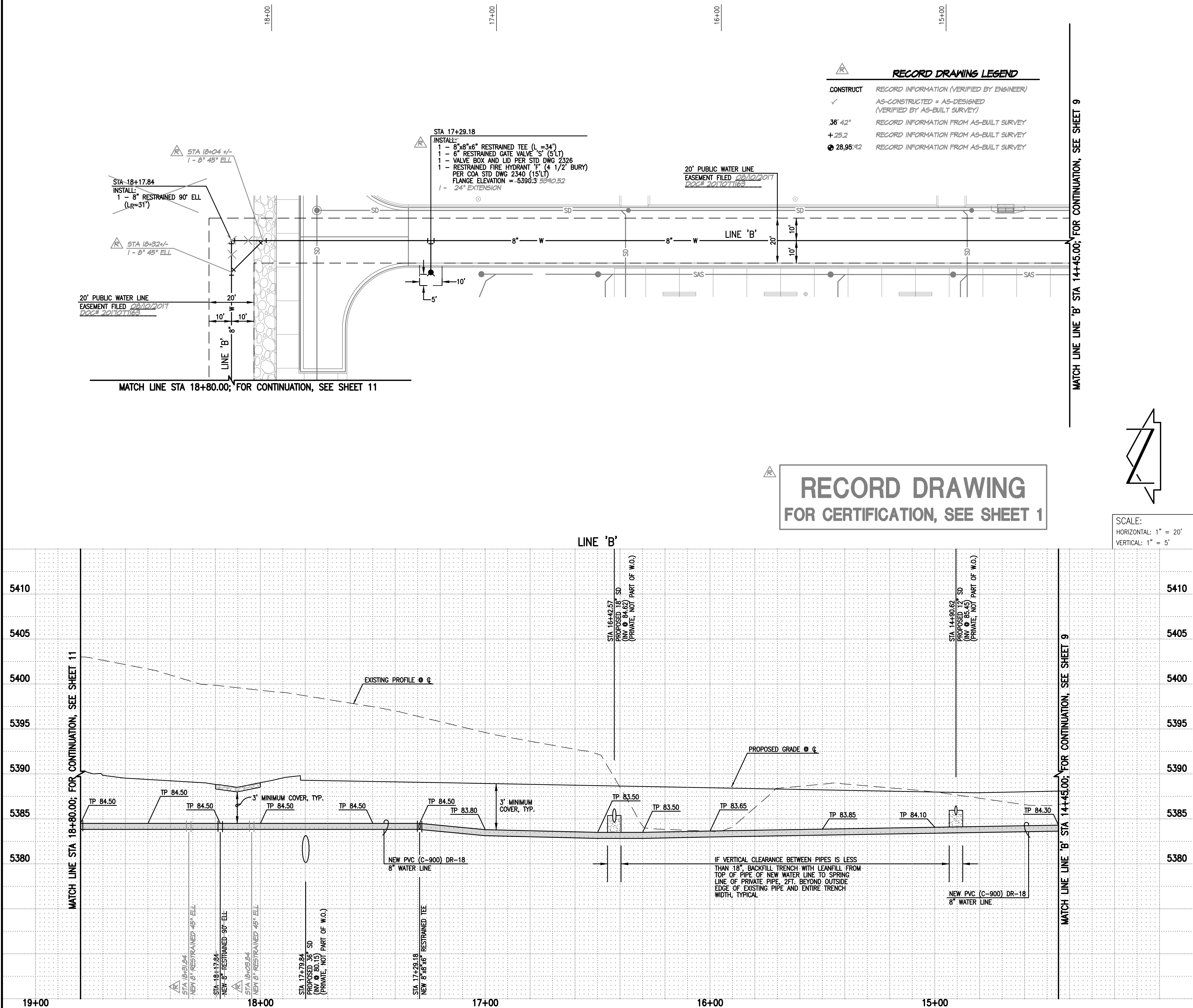
Last Design Update

ELEVATIONS ARE IN NAVD 1988



City Project No.	650292	Zone Map No.	J-7/8
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WATER LINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 DR18 PIPE OR AS APPROVED BY THE WATER AUTHORITY. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- FOR ALL LINES LARGER THAN 12", WATER MAIN SHALL BE DUCTILE IRON OR PVC C-905 OR AS APPROVED BY THE WATER AUTHORITY. CONCRETE CULVERT IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATER LINE SHALL HAVE A MINIMUM COVER OF 3'-0" (FINISHED GRADE TO TOP OF PIPE) FOR ALL LINES 12" OR SMALLER; 4'-0" MINIMUM COVER FOR LINES 14" OR LARGER. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DEVICES (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION, SECTION 170.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED. JOINT RESTRAINT LENGTHS SPECIFIED HEREON ARE THE LENGTHS TO BE RESTRAINED EACH SIDE OF THE FITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- ALL FIRE HYDRANTS SHALL BE SECURELY WRAPPED IN BLACK PLASTIC UNTIL SUCH TIME AS THE NEW WATER LINE IS PUT INTO SERVICE BY THE WATER AUTHORITY PERSONNEL.
- NEW WATER LINE INSTALLATIONS SHALL INCLUDE INSULATED 12 GAUGE COPPER TRACER WIRE INSTALLED CONTINUOUSLY ALONG THE PIPE WITH WATER-PROOF SPLICE BOXES AT JUNCTIONS AND TEES. TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVES AND SERVICES. TRACER WIRE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	USC&GS SURVEY CONTROL	BRASS DISC STAMPED	FIELD NO.	DATE	NO.	DATE
HMC	6-4-17	USC&GS SURVEY CONTROL	BRASS DISC STAMPED	2014.181.9	1/8/2016	2014.181.9	04/03/2018
INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE	INSPECTOR'S NAME	DATE
ABC/MLA	02-18	ABC/MLA	02-18	ABC/MLA	02-18	ABC/MLA	02-18
FIELD VERIFICATION	DATE	FIELD VERIFICATION	DATE	FIELD VERIFICATION	DATE	FIELD VERIFICATION	DATE
HMC	02-18	HMC	02-18	HMC	02-18	HMC	02-18
CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE
HMC	02-18	HMC	02-18	HMC	02-18	HMC	02-18
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

WATER LINE AND FIRE HYDRANT GIS DATA

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
FH "F"	STA 17+29.18	1442390.67	1484986.63	5390.52
VALVE "S"	STA 17+29.18 (5'LT)	1442390.73	1484999.27	5385.57

SURVEY NOTE:

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HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

2015.186.T 2016.181.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **PLAN AND PROFILE LINE 'B'**
STA 14+45.00 TO STA 18+80.00
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS

Design Review Committee

APPROVED

MAR 01 2017

DESIGN REVIEW COMMITTEE

City Engineer Approval

APPROVED

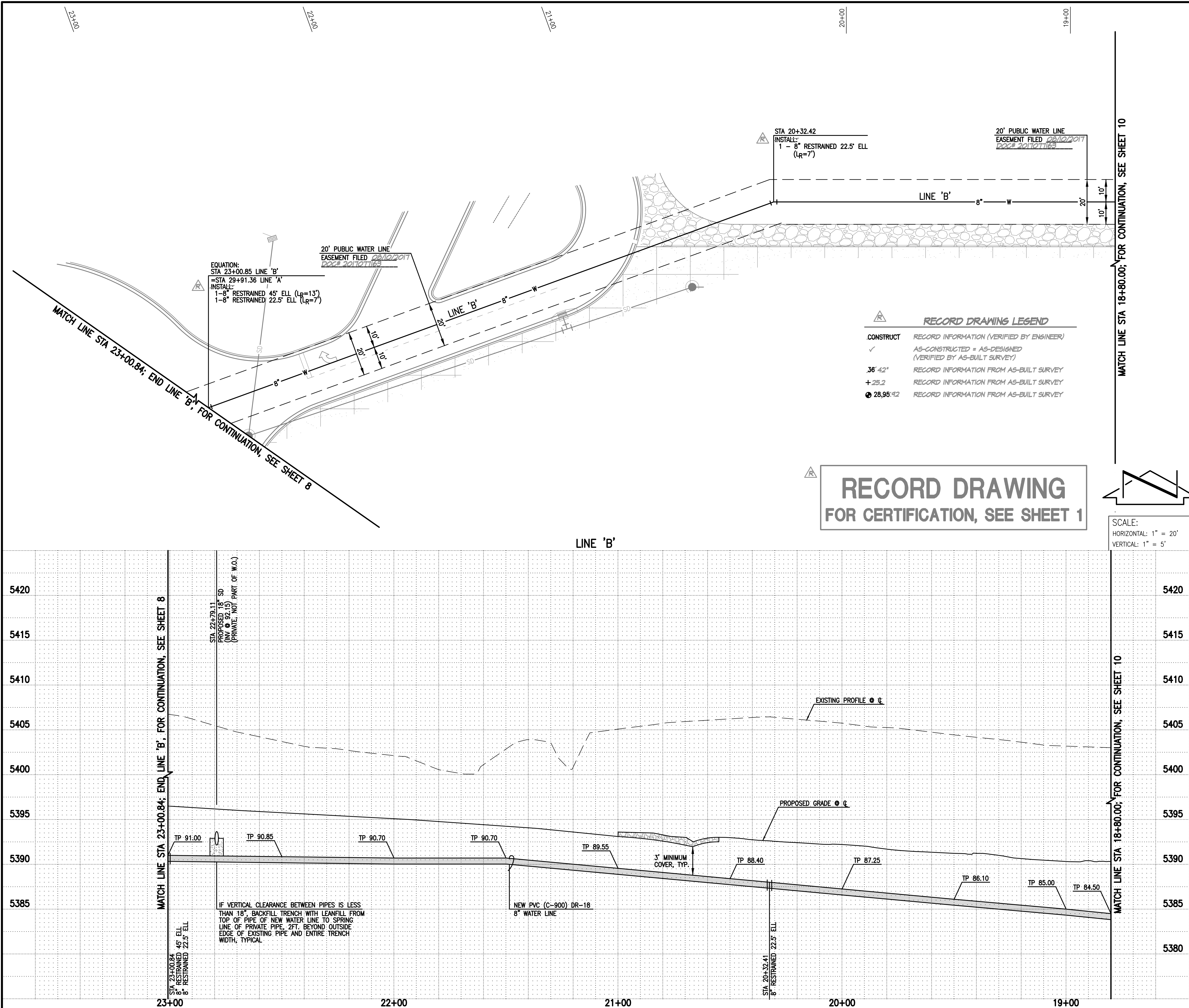
APR 20 2017

CITY ENGINEER

Last Design Update

Mo./Day/Yr.

City Project No. **650292** Zone Map No. **J-7/8** Sheet **10** of **15**



WATER LINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 DR18 PIPE OR AS APPROVED BY THE WATER AUTHORITY. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
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6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

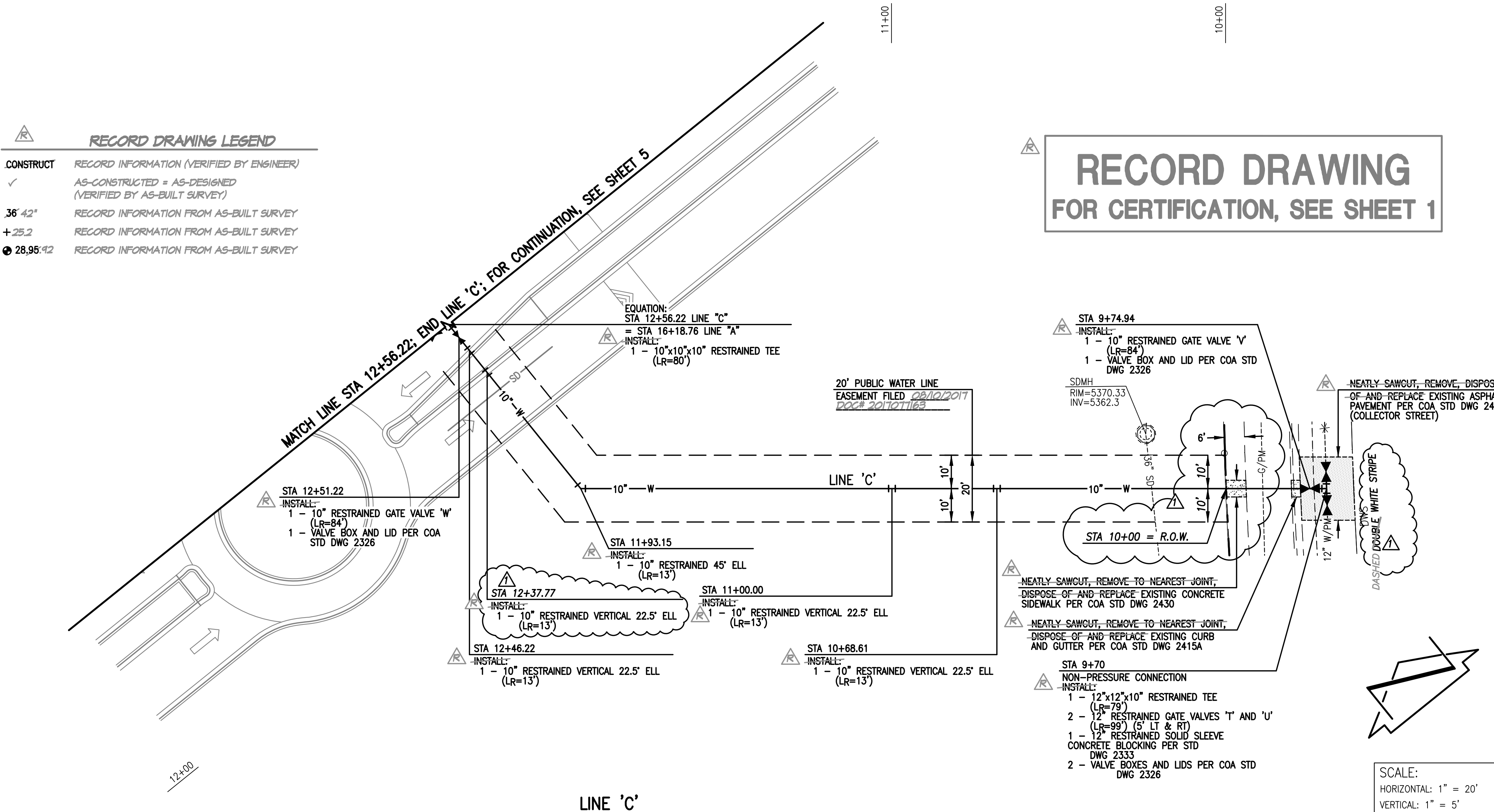
TITLE: **PLAN AND PROFILE LINE 'C'**
STA 18+80.00 TO STA 23+00.84
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS

Design Review Committee APPROVED MAR 01 2017 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED APR 20 2017 CITY ENGINEER	Last Design Update
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City Project No. **650292** Zone Map No. **J-7/8** Sheet **11** of **15**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	USC&GS SURVEY CONTROL BRASS DISC STAMPED "REWARD 1969", SET IN A CONCRETE POST 0.3 FEET ABOVE GROUND APPROXIMATELY 600 FEET NORTHWEST OF THE I-40 AND 98TH STREET N.W. INTERCHANGE. ELEVATION = 5319.688 FEET (NAD 1988)	DATE	NO.	BY	DATE	NO.	DATE	BY	DATE	DATE
INSPECTOR'S FIELD VERIFICATION BY	DATE		DATE	2014.181.9	HMCS	1/8/2016					
RECORDED BY	DATE		RECORDED BY								
NO.			NO.								

CONSTRUCT	RECORD DRAWING LEGEND
✓	RECORD INFORMATION (VERIFIED BY ENGINEER)
	AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)
36' 42"	RECORD INFORMATION FROM AS-BUILT SURVEY
+25.2	RECORD INFORMATION FROM AS-BUILT SURVEY
● 28.95 42	RECORD INFORMATION FROM AS-BUILT SURVEY



RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

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WATER LINE AND FIRE HYDRANT GIS DATA

ITEM	LOCATION	NAD' 83 GRID COORDINATES (US SURVEY FEET)		
		NORTHING	EASTING	ELEVATION
VALVE 'T'	STA 9+70 (5' LT)	1491264.89	1489840.54	5363.90
VALVE 'U'	STA 9+70 (5' RT)	1491269.00	1489843.33	5363.86
VALVE 'V'	STA 9+74.94	1491268.56	1489839.29	5363.53
VALVE 'W'	STA 12+51.22	1491469.95	1489664.12	5380.40

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HIGH MESA Consulting Group

6010-B MIDWAY PARK BLVD, NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

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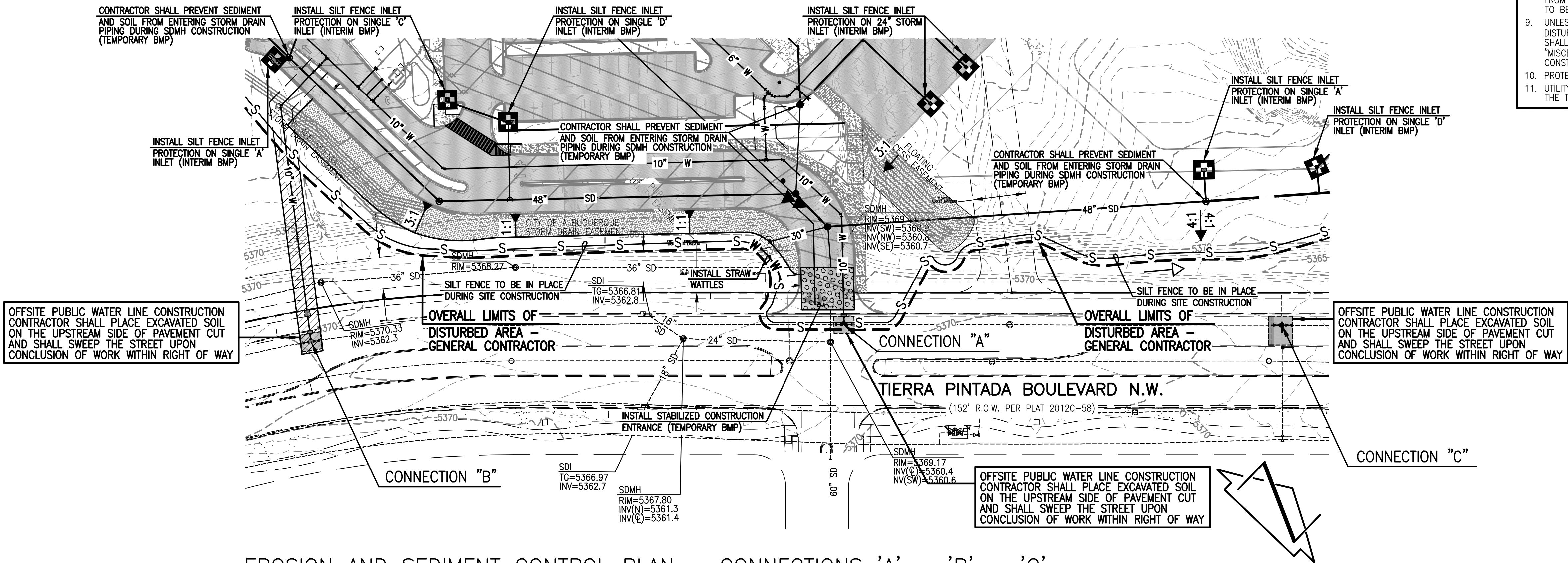
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **PLAN AND PROFILE LINE 'C'
STA 09+70 TO STA 12+56.22
APS NW K TO 8 SCHOOL
PUBLIC WATER LINE IMPROVEMENTS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Ms./Dsg/Tr.
APPROVED MAR 01 2017 DESIGN REVIEW COMMITTEE	APPROVED APR 20 2017 CITY ENGINEER	

City Project No. **650292** Zone Map No. **J-7/8** Sheet **12** of **15**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REMARKS		DESIGN	
CONTRACTOR	DATE	US&GS SURVEY CONTROL BRASS DISC STAMPED "REWARD 1969", SET IN A CONCRETE POST 0.3 FEET ABOVE GROUND APPROXIMATELY 600 FEET NORTHWEST OF THE I-40 AND 98TH STREET N.W. INTERCHANGE. ELEVATION = 5319.688 FEET (NAVD 1988)	DATE	NO.	BY	DATE	DATE	BY	DATE	DATE	DATE
INSPECTOR'S NAME	DATE		DATE	2014.181.9	HMCS	1/8/2016	04/03/2018				
FIELD VERIFICATION BY	DATE		DATE								
CORRECTED BY	DATE		DATE								
RECORDED BY	DATE		DATE								



EROSION AND SEDIMENT CONTROL PLAN – CONNECTIONS 'A' – 'B' – 'C'

SCALE: 1" = 60'

THE DETAIL SHOWN HEREON IS TAKEN FROM THE EROSION AND SEDIMENT CONTROL PLAN DATED 11-18-2016, AND APPROVED 12-01-2016. THE REFERENCED PLAN IS 36"x48", AND SUPPORTS BOTH PRIVATE BUILDING PERMIT AND PUBLIC WORK ORDER CONSTRUCTION FOR THE COMMON OWNER. THE DETAILS SHOWN HEREON COVER THE PORTION OF WORK OUTSIDE THE GENERAL CONTRACTOR'S LIMITS.

EROSION CONTROL LEGEND:

	EXISTING FENCE
	CHAIN LINK FENCE WITH SILT FENCE ATTACHED
	SILT FENCE
	PROPOSED SILT FENCE INLET PROTECTION
	PROPOSED STRAW WATTLES
	PROPOSED DIRECTION OF FLOW
	EXISTING DIRECTION OF FLOW
	PROPOSED GRAPHIC POINT OF DISCHARGE
	EXISTING GRAPHIC POINT OF DISCHARGE
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED CONSTRUCTION ENTRANCE

EROSION AND SEDIMENT CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. SPOILS FROM THE PROJECT SHALL NOT BE DEPOSITED OR STORED IN THE STREET OR ROADWAY.
4. SPOILS SHALL BE STAGED ON THE UPSTREAM SIDE OF TRENCHES WHEN TRENCHING IS REQUIRED.
5. THE CONTRACTOR SHALL CLEAN AND REMOVE ALL FUGITIVE DUST, SOIL AND DEBRIS RESULTING FROM THIS PROJECT FROM THE STREET AT THE END OF EACH DAY.
6. CONTRACTOR SHALL LEAVE THE AREA IMMEDIATELY BEHIND THE CURB DEPRESSED TO CONTAIN NUISANCE FLOWS AND SEDIMENT.
7. CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASHING; THE WASHING OF CONCRETE TRUCKS SHALL NOT BE PERMITTED WITHIN THE PUBLIC RIGHT-OF-WAY.
8. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
9. UNLESS FINAL STABILIZATION IS OTHERWISE PROVIDED FOR, ANY AREAS OF EXCESS DISTURBANCE (TRAFFIC ACCESS, STORAGE YARD, EXCAVATED MATERIAL, ETC.) SHALL BE RE-SEEDED ACCORDING TO CITY OF ALBUQUERQUE SPECIFICATION 1012 "MISCELLANEOUS SEEDING". THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
10. PROTECT EXISTING STORM DRAIN FACILITIES FROM SEDIMENT AS REQUIRED.
11. UTILITY TRENCH EXCAVATION SPOILS SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

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2015.186.T 2016.181.6

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: EROSION AND SEDIMENT CONTROL PLAN APS NW K TO 8 SCHOOL PUBLIC WATER LINE IMPROVEMENTS	
Design Review Committee APPROVED MAR 01 2017 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED APR 20 2017 CITY ENGINEER
City Project No. 650292	Zone Map No. J-7/8
Sheet 15	Of 15

RECORD DRAWING

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	USC&GS SURVEY CONTROL BRASS DISC STAMPED "REWARD 1969", SET IN A CONCRETE POST 0.3 FEET ABOVE GROUND APPROXIMATELY 600 FEET NORTHWEST OF THE I-40 AND 98TH STREET N.W. INTERCHANGE. ELEVATION = 5319.688 FEET (NAD 1988)	DATE	NO.	BY	04/03/2018	1-25-2017	NO.	DATE	DESIGNED BY	CHECKED BY
INSPECTOR'S NAME	DATE		DATE	2014.181.9	HMCG					G.M.	G.M.
FIELD VERIFICATION BY	DATE		DATE							J.Y.R.	J.Y.R.
FIELD CORRECTION BY	DATE		DATE								
RECORDED BY	DATE		DATE								