

CONSTRUCTION PLANS FOR  
MAVERIK, 3737 PRINCETON DR.

COMANCHE ROAD NE  
PAVING IMPROVEMENTS

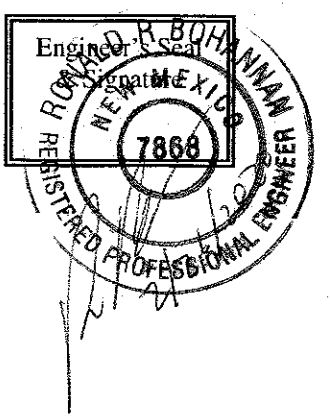
ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO  
APRIL 2019

*Handwritten signature/initials*

INDEX TO DRAWINGS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

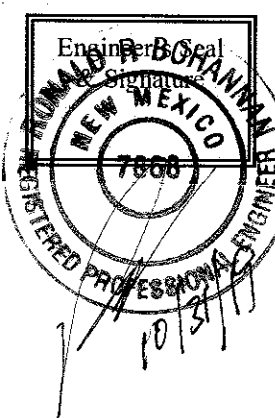
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Planning Department and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings.



- 1 TITLE SHEET
- 2 PLAT
- 3 SITE PLAN (REFERENCE)
- 4 GRADING PLAN (REFERENCE)
- 5 PAVING IMPROVEMENTS (COMANCHE ROAD NE)
- 6 PAVING IMPROVEMENTS (PRINCETON DR. NE)
- 7 STRIPIING IMPROVEMENTS (COMANCHE ROAD NE)
- 8 UTILITY IMPROVEMENTS
- 9 CONSTRUCTION DETAILS
- 10 TRACER WIRE DETAILS AND JOINT RESTRAINT TABLE
- 11 TRACER WIRE DETAILS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS (ALBUQUERQUE ONLY)

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Wayjohn Surveying Inc., NMPS number 14269.



WATER & SEWER

- 1. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER COA STANDARD DRAWINGS 2460 AND 2461.
- 2. MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- 3. 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://ABCWUA.ORG/WATER\\_SHUT\\_OFF\\_AND\\_TURN\\_ON\\_PROCEURES.ASPX](http://abcwua.org/water_shut_off_and_turn_on_procedures.asp)
- 4. PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900: DR18 REQUIREMENTS (6" - 12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6" - 48").
- 5. ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. REFER SHEET 10 FOR THE JOINT RESTRAINT TABLE.
- 6. ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING. EXCEPT WHEN PROFILED WITHIN A PROPOSED OR EXISTING STREET, WHERE STREET STATIONING SHALL GOVERN.
- 7. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465.
- 8. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9. THE CONTRACTOR SHALL INSTALL 4" X 4" X 5' POST AND EMS AT THE END OF EACH SANITARY SEWER SERVICE.
- 9. TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH WATER AUTHORITY DETAILS.
- 10. CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- 11. AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.
- 12. ALL DESIGNS AND CONSTRUCTION OF ANY UNDERGROUND UTILITIES SHALL COMPLY WITH ADMINISTRATIVE INSTRUCTION NO. 9 FOR WORK NEARBY OR AFFECTING SAN JUAN CHAMA TRANSMISSION LINES AND APPURTENANCES. INFORMATION SHALL BE PROVIDED TO THE WATER AUTHORITY ONE (1) MONTH IN ADVANCE OF THE CONSTRUCTION START DATE. INFORMATION CAN BE FOUND AT [HTTP://WWW.ABCWUA.ORG/WATER\\_SHUT\\_OFF\\_AND\\_TURN\\_ON\\_PROCEURES.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedures.asp)

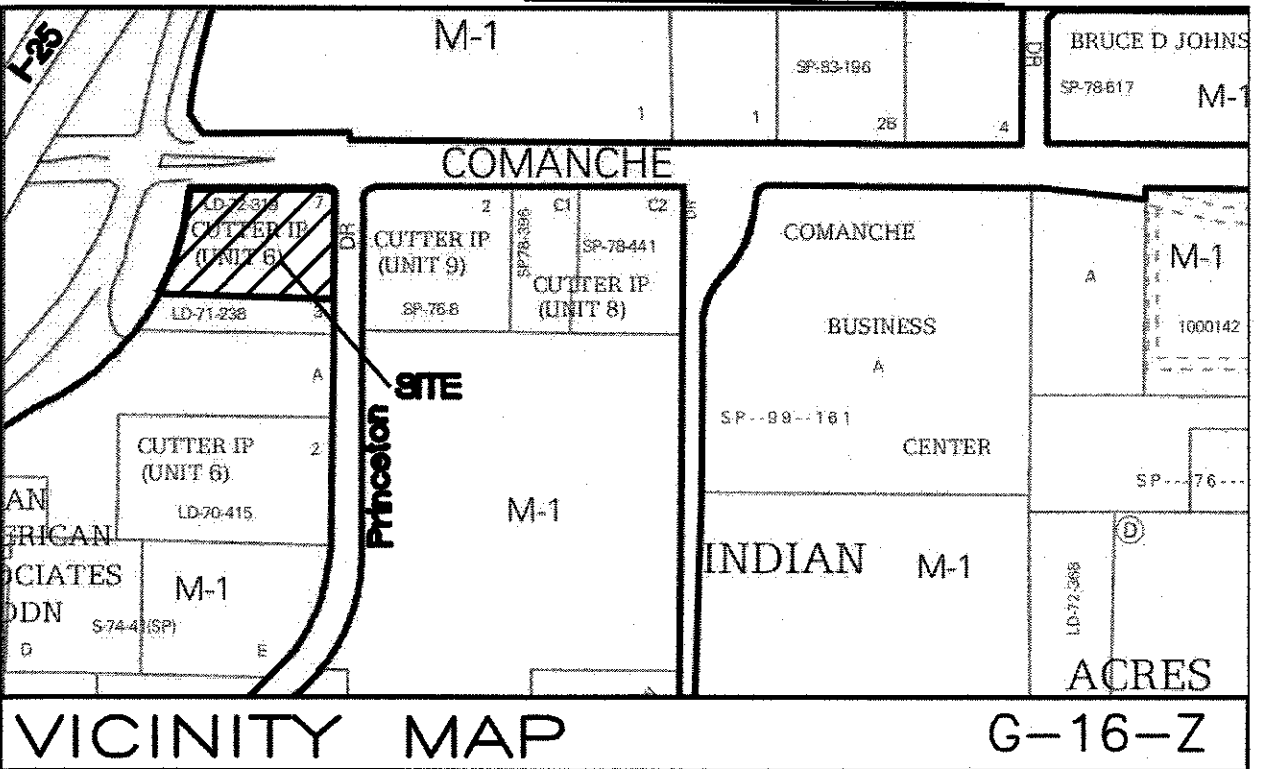
TRANSPORTATION

- 1. ANY STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH THERMO-PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- 2. REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
- 3. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- 4. CURB AND GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH THE LINE AND GRADE OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- 5. THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB AND GUTTER AND SIDEWALK.
- 6. CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.
- 7. AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPILLOVER OF ASPHALT OR TACK COAT. CARE MUST BE TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENTS; IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.
- 8. CONTRACTOR WILL ENSURE THE ASPHALT HAS A SMOOTH, UNIFORM EDGE WHEN REMOVING AND REPLACING CURB AND GUTTER. IF THE ASPHALT EDGE IS NOT SMOOTH AND UNIFORM, CONTRACTOR WILL SAW CUT AND REPLACE A ONE-FOOT STRIP OF ASPHALT ALONG THE FULL SECTION BEING REPLACED, REFER TO C.O.A. STANDARD DRAWING # 2465 WITH THE APPROPRIATE PAVING SECTION BASED ON ROADWAY CLASSIFICATION.

OTHER COMMON NOTES

- 1. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- 2. WHEN DISTURBING MORE THAN 1/4 ACRES, CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- 3. IN ADVANCE OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- 4. PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- 5. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- 6. CONTRACTOR IS TO SUPPORT, PROTECT, AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- 7. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- 8. CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
- 9. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- 10. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE ARRANGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING A DISPOSAL SITE AND HAUL THERETO.
- 11. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT (505) 272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.

RECORD DRAWINGS



GENERAL NOTES

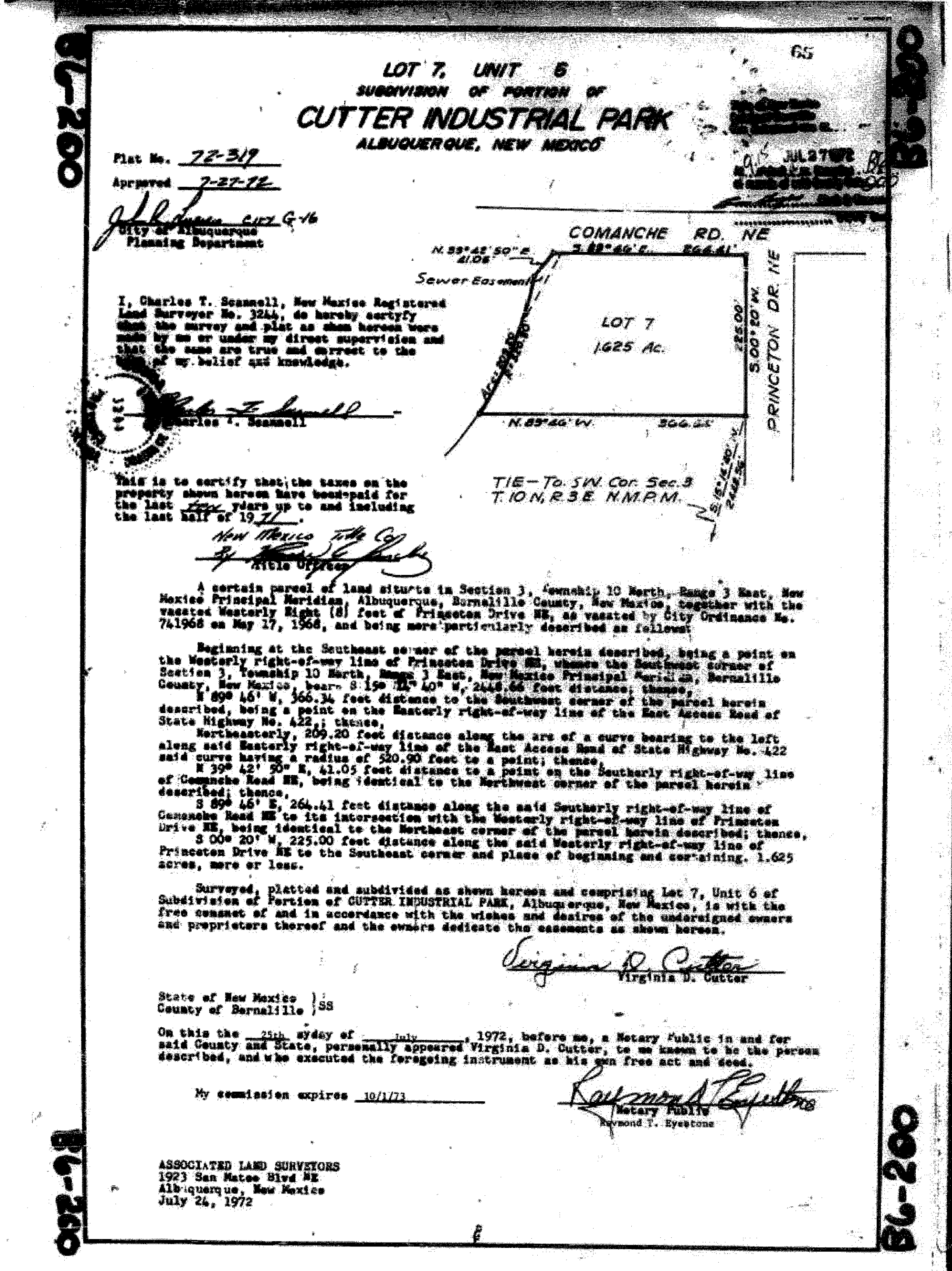
- 1. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #9, AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- 2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 3. CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 4. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 5. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) 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. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 STANDARD SPECIFICATIONS SECTION 4.4.
- 6. EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL THEN EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL THEN COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED; ANY DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY EXISTING UTILITIES IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- 7. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- 8. CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- 9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 10. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.
- 11. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.
- 12. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DRB NO. PR-2019-001997

**TIERRA WEST, LLC**  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
505-858-3100  
[www.tierrawestllc.com](http://www.tierrawestllc.com)

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<i>[Signature]</i>	5-11-19	APPROVED FOR CONSTRUCTION		
		Transportation	<i>[Signature]</i>	5-3-19			
		Water/Wastewater	<i>[Signature]</i>	5-11-19			
		Hydrology	<i>[Signature]</i>	5-2-19			
		AMAFCA	<i>[Signature]</i>				
RONALD R. BOHANNAN P.E. #7868		Constr. Mngmt.			<i>[Signature]</i> City Engineer Date 5/27/19		
		Constr. Coord.					
CITY PROJECT NO. 745503					SHEET 1 OF 11		

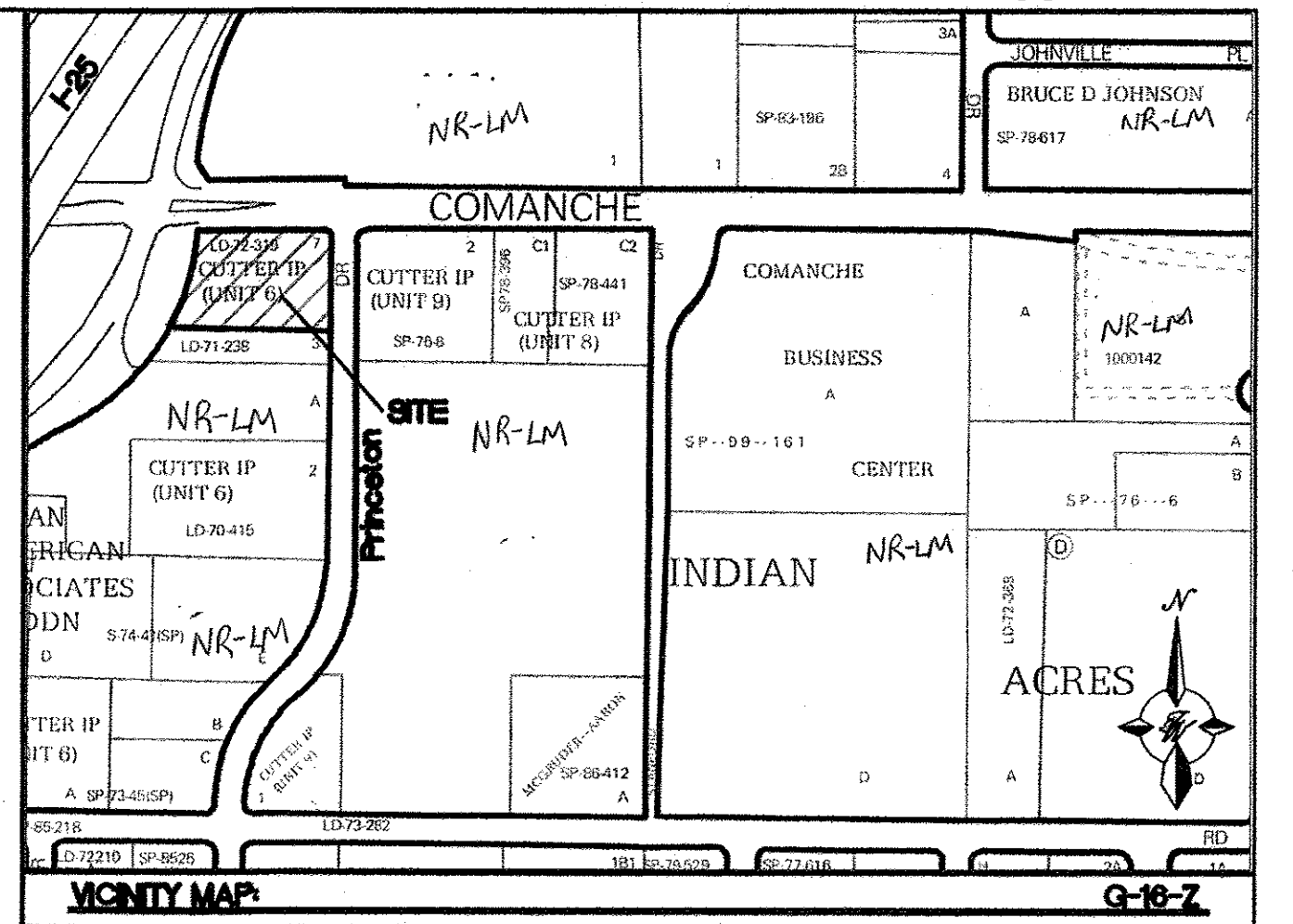
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FOR REFERENCE ONLY  
FOR INFORMATION ONLY

PLAT





**LEGAL DESCRIPTION:**

\*0007 UNIT 6 SUBD OF POR CUTTER INDUSTRIAL PARK

**DO ZONING:**

NR-LM: NON-RESIDENTIAL LIGHT MANUFACTURING

**SITE DATA**

PROPOSED USAGE: GAS CONVENIENCE STORE  
 IDO CLASSIFICATION: 4-3(D)(17) LIGHT VEHICLE FUELING STATION  
 LOT AREA: 70,474 SF (1.62 ACRES)  
 ADDRESS: 3737 PRINCETON DR NE ALBUQUERQUE NM 87107  
 BUILDING AREA: 4,300 SF  
 STACK: 2X5 (20 UNITS)  
 ASPHALT AREA: 22,662 SF  
 PARKING REQUIRED: 17 SPACES (4 SPACES PER 1,000 SF)  
 PARKING PROVIDED: 31 SPACES  
 HC PARKING REQUIRED: 2 SPACES  
 HC PARKING PROVIDED: 2 SPACES (1 VAN ACCESSIBLE)  
 MC PARKING REQUIRED: 2 SPACES  
 MC PARKING PROVIDED: 2 SPACES  
 BICYCLE PARKING REQUIRED: 2 SPACES  
 BICYCLE PARKING PROVIDED: 2 SPACES  
 LANDSCAPE AREA REQUIRED: 9,996 SF  
 LANDSCAPE AREA PROVIDED: 22,940 SF

PROJECT NUMBER: PR-2013-001907

APPLICATION NUMBER: 21-2013-00020

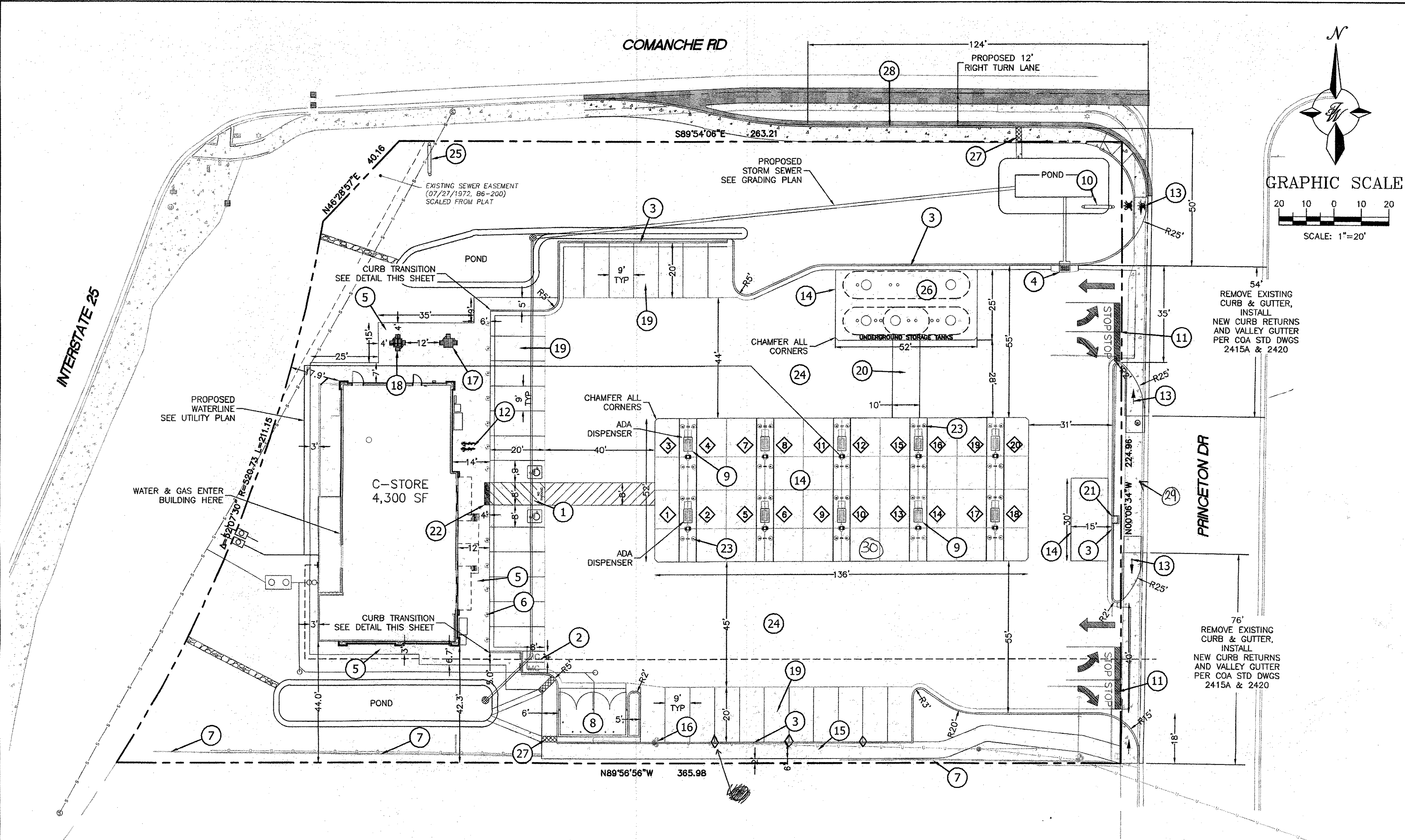
Is an Infrastructure List required? ( ) Yes ( ) No If Yes, then a set of approved DRC plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

**DRB SITE DEVELOPMENT PLAN APPROVAL:**

Traffic Engineer, Transportation Division	2/12/19	Date
<i>Theresa Loe</i>	02-13-19	Date
ABCWUA		
Parks & Recreation Department		Date
<i>Renee Bruns</i>	2-13-19	Date
City Engineer/Hydrology		Date
<i>Renee Bruns</i>	2/13/19	Date
Code Enforcement		Date
<i>N/A</i>		
*Environmental Health Department (conditional)		Date
<i>N/A</i>		
Solid Waste Management		Date
<i>N/A</i>	2-15-19	Date
DRB Chairperson, Planning Department		Date

FOR REFERENCE ONLY  
 FOR INFORMATION ONLY

ENGINEER'S SEAL	MAVERIK INC. STORE 3737 PRINCETON DR. NE	DRAWN BY BF
RONALD R. BOHANNAN REGISTERED PROFESSIONAL ENGINEER #7868	SITE PLAN FOR BUILDING PERMIT	DATE 2-13-19
	TERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierwestllc.com	DRAWING 201809-SPB
		SHEET # C1
		JOB # 2018039

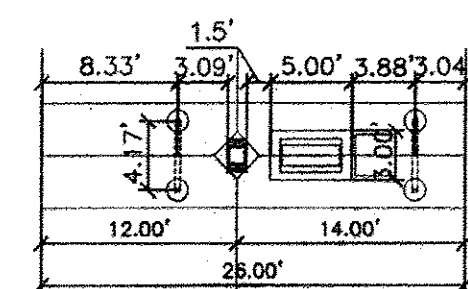


**LEGEND**

	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	CENTERLINE
	RIGHT-OF-WAY
	BUILDING
	SIDEWALK/CONCRETE
	ASPHALT
	EXISTING CURB & GUTTER
	STREET LIGHTS

**KEYED NOTES**

- ACCESSIBLE PARKING PER ADA STANDARDS WITH SIGN SEE DETAIL SHT. C6
- MOTORCYCLE PARKING WITH SIGN
- ON-SITE CURB & GUTTER (SEE DETAIL SHT. C6)
- MODIFIED OIL-WATER SEPARATOR: SINGLE TYPE C INLET COA STD DWG 2205. SNOUT DETAIL SEE SHEET C9.
- CONCRETE SIDEWALK (SEE DETAIL SHT. C7)
- BOLLARDS (SEE DETAIL SHT. C7)
- EXISTING WALL (TO REMAIN)
- DUMPSTER (SEE DETAIL SHT. C8)
- GAS PUMP ISLAND (TYP)
- MAVERIK MONUMENT SIGN (SEE ARCH. PLANS)
- 2.0' STOP BAR
- BICYCLE RACKS (SEE DETAIL SHT. C8)
- UNIDIRECTIONAL ACCESSIBLE RAMP (SEE DETAIL SHT. C8)
- CONCRETE SLAB W/CHAMFERED CORNERS
- 6' CONCRETE SIDEWALK (SEE DETAIL SHT. C7)
- POWER POLE TO BE REMOVED (BY OTHERS)
- ADA PICNIC TABLE (SEE ARCH. PLANS)
- PICNIC TABLE (SEE ARCH. PLANS)
- CONCRETE PARKING STALL (SEE DETAIL SHT. C6)
- PETROLEUM TRENCH CAP SECTION (SEE DETAIL SHT. C6)
- XACTAIR AIR STATION (SEE DETAIL SHT. C6)
- TRUNCATED DOMES (SEE DETAIL SHT. C8)
- "HOOP" BOLLARD (SEE DETAIL SHT. C7)
- ASPHALT PAVING (SEE GEOTECH REPORT)
- MAVERIK D/F ILLUMINATED PYLON SIGN (SEE ARCH. PLANS)
- UNDERGROUND STORAGE FUEL TANKS (REFER MECH. PLANS)
- SIDEWALK CULVERT COA STD DWG 2236
- CURB & GUTTER (PER COA STD 2415A)
- EXISTING 6' PUBLIC SIDEWALK
- ALL UNDER CANOPY LIGHTING TO BE RECESSED.



**FUEL ISLAND LAYOUT**  
 SCALE: NONE

**NOTES:**

- SEE ELECTRICAL PLANS FOR ALL LIGHT POLES & LIGHT POLE LOCATIONS. ALL LIGHT POLES BASES SHALL BE STRAIGHT AND PLASTERED SMOOTH. TOP OF LIGHT BASE SHALL BE 2'-6" ABOVE TOP OF CURB/SIDEWALK. BASES PROVIDED BY G.C., TYP.
- XACTAIR STATION ON 30"x36" CONCRETE PAD. EQUIPMENT PROVIDED BY OWNER. G.C. TO PROVIDE ELECTRICAL SERVICE AND INSTALL AIR STATION EQUIPMENT.
- ALL UTILITY DIGGING OR OTHER EXCAVATION SHALL TAKE IN CONSIDERATION EXISTING SIDEWALKS, CURB & GUTTERS AND OTHER STRUCTURES THAT MAY NEED TO BE REMOVED AND/OR REPLACED AS PART OF THE G.C. BID.
- ALL RETAIL PRODUCT AREAS ARE TO BE UNDER THE BUILDINGS PERMANENT ROOF

**Curb Transition**  
 SCALE: NONE

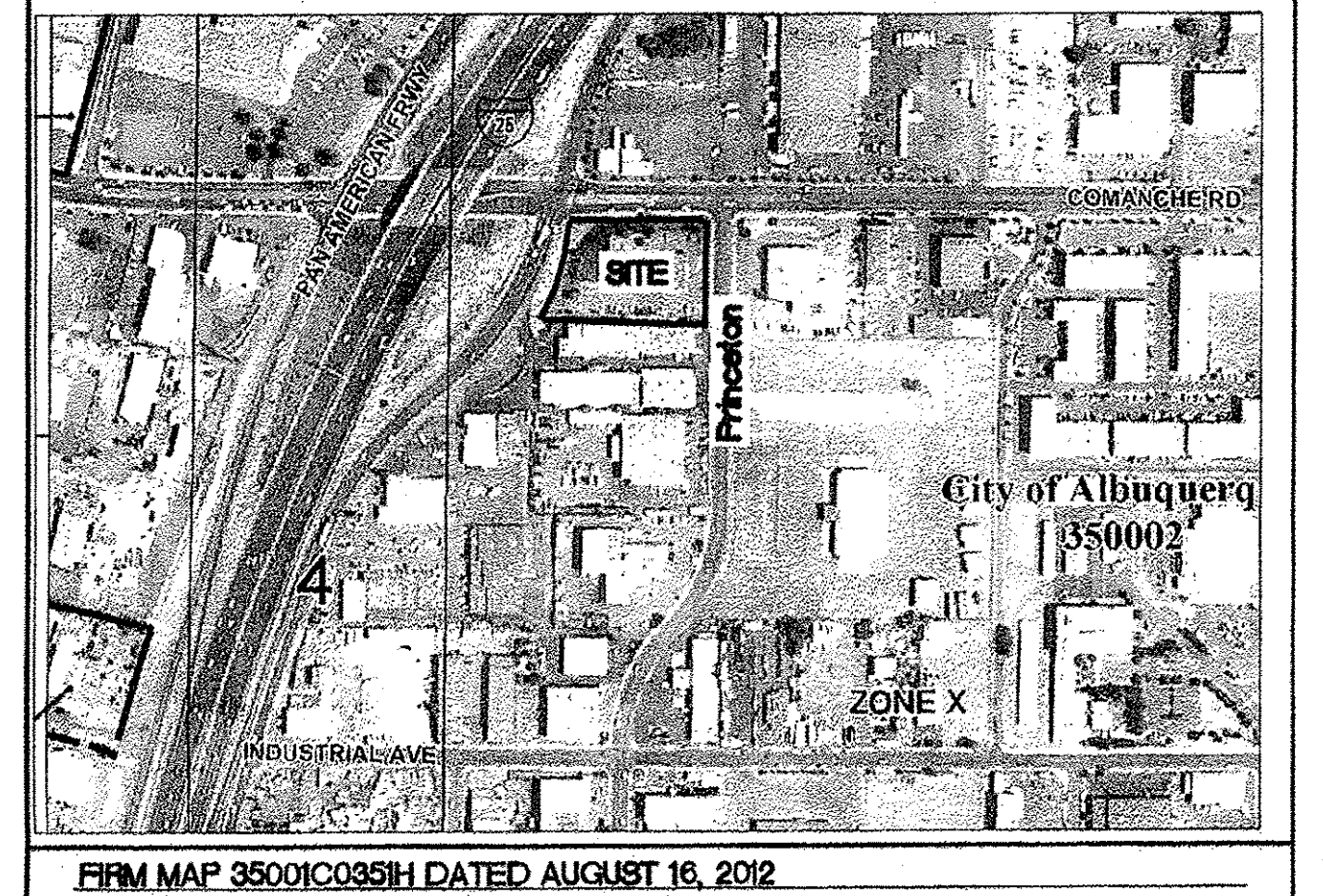
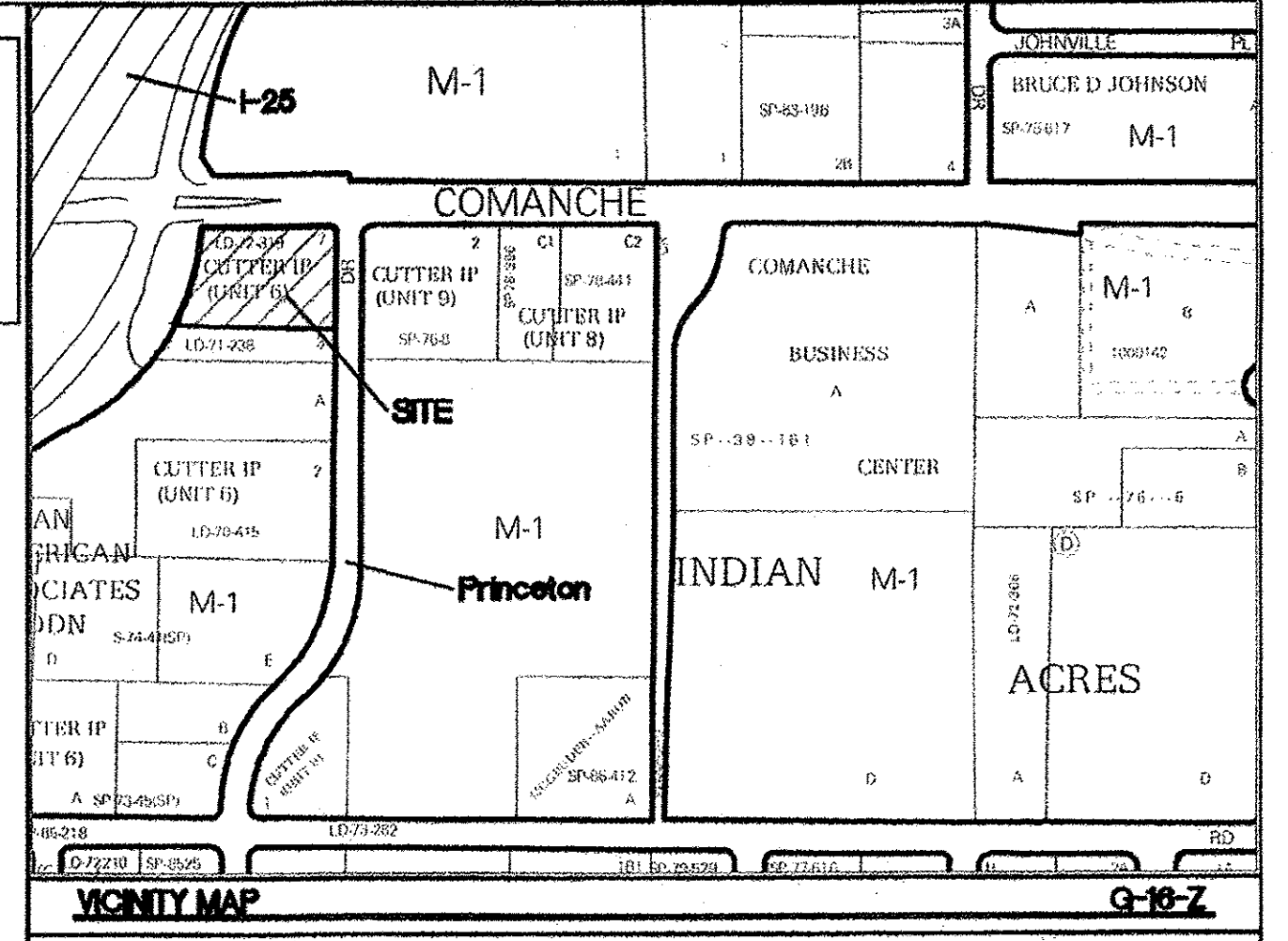
**INDEX TO DRAWINGS**

- SITE PLAN FOR BUILDING PERMIT
- GRADING PLAN
- DEVELOPED DRAINAGE PLAN
- GRADING DETAILS
- MASTER UTILITY PLAN
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- DEMOLITION PLAN
- LANDSCAPING PLAN
- BUILDING ELEVATION & SIGN PLANS
- EROSION CONTROL PLAN
- EROSION CONTROL DETAILS
- EROSION CONTROL DETAILS



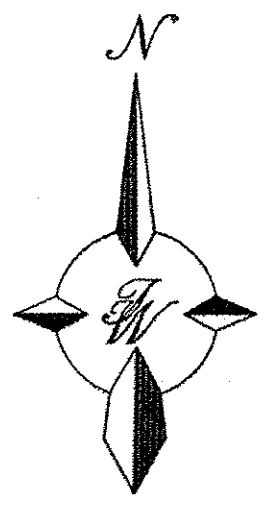


A.G.R.S. MONUMENT "FFFFF"  
STANDARD AMALFA BRASS DISC  
(FOUND IN PLACE)  
NEW MEXICO STATE PLANE COORDINATES  
(CENTRAL ZONE-N.A.D. 1983)  
N=1500580.875 US SURVEY FEET  
E=1532003.285 US SURVEY FEET  
PUBLISHED EL-N/A US SURVEY FEET (NAVD 1988)  
GROUND TO GRID FACTOR=0.99972747  
DELTA ALPHA ANGLE=-012'30.98"

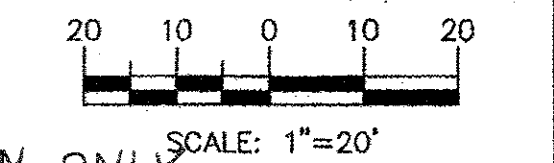


LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- 5070 — CONTOUR MAJOR
- 5072 — CONTOUR MINOR
- x 5048.25 SPOT ELEVATION
- FLOW ARROW
- EXISTING CURB & GUTTER
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- x 5071.25 EXISTING SPOT ELEVATION
- WATER BLOCK
- ACCESSIBLE PATH
- OVERFLOW RIPRAP/CONCRETE WEIR
- CLEANOUT



GRAPHIC SCALE

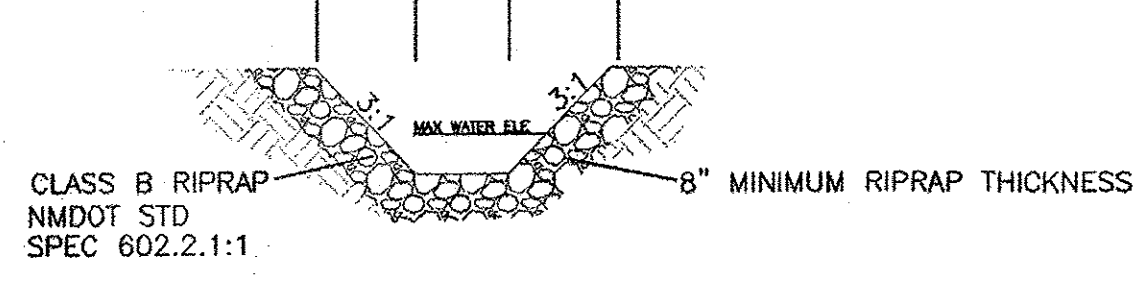
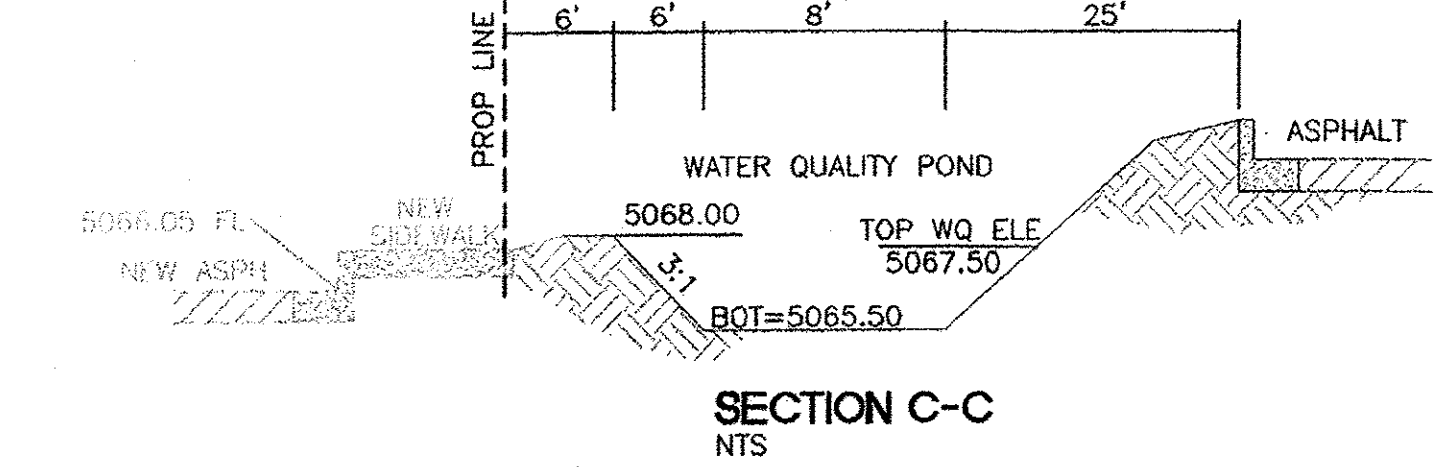
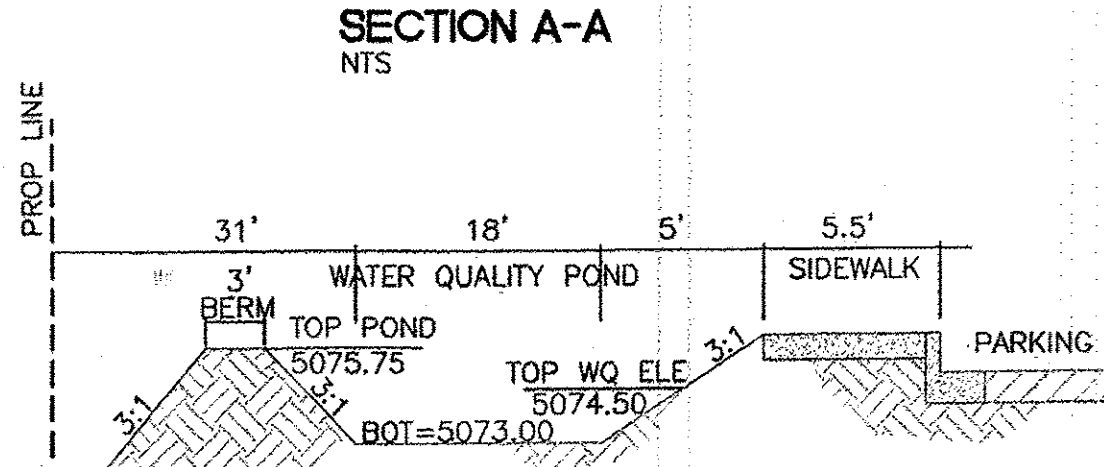
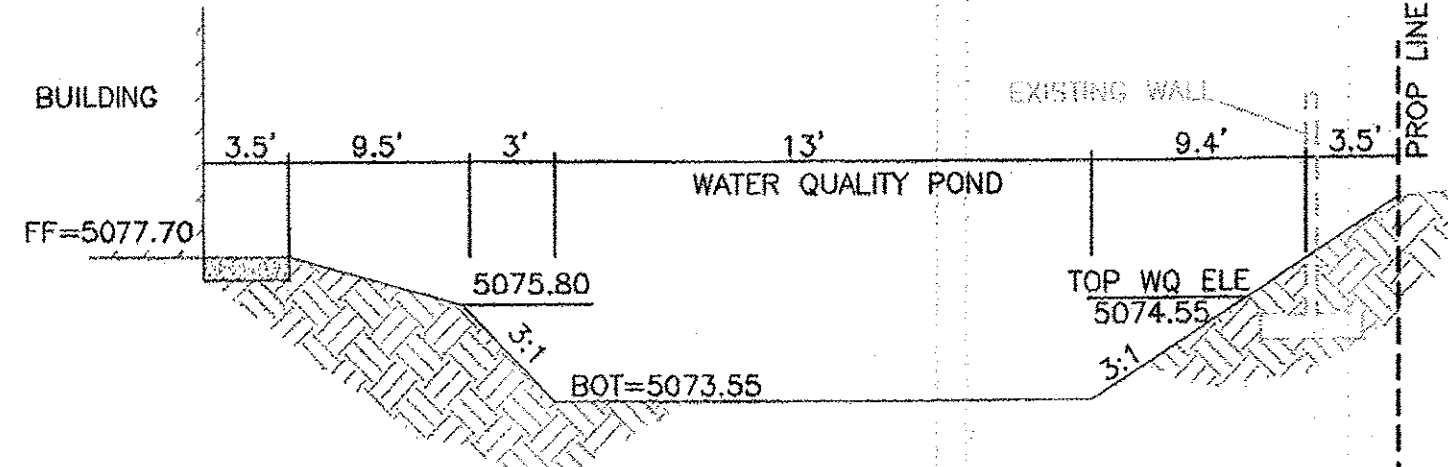


NOTICE TO CONTRACTORS

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3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL, DIAL "811" OR (505) 260-1980 FOR THE LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
8. CONTRACTOR MUST CONTACT JASON RODRIGUEZ AT 235-8016 AND CONSTRUCTION COORDINATOR AT 924-3416 TO SCHEDULE AN INSPECTION.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



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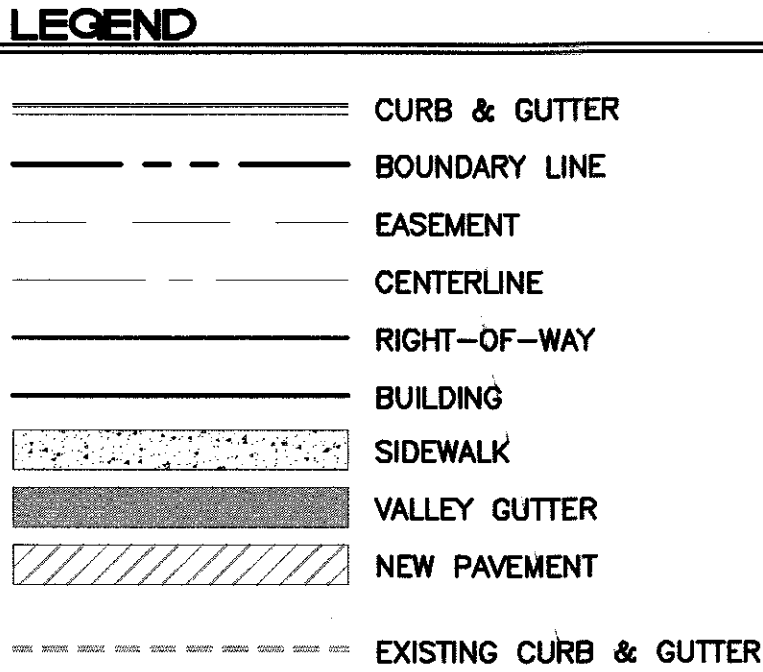
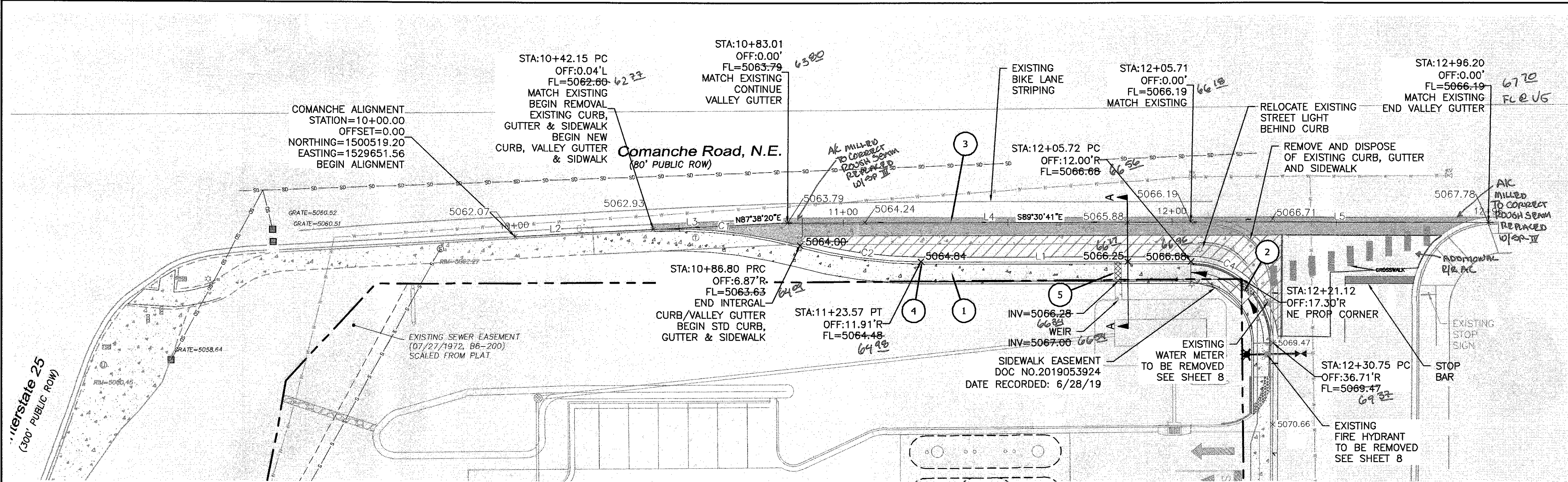
MAVERIK INC. STORE  
3737 PRINCETON DR. NE

GRADING PLAN

TERRA WEST, LLC  
5571 MIDWAY PARK PL NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

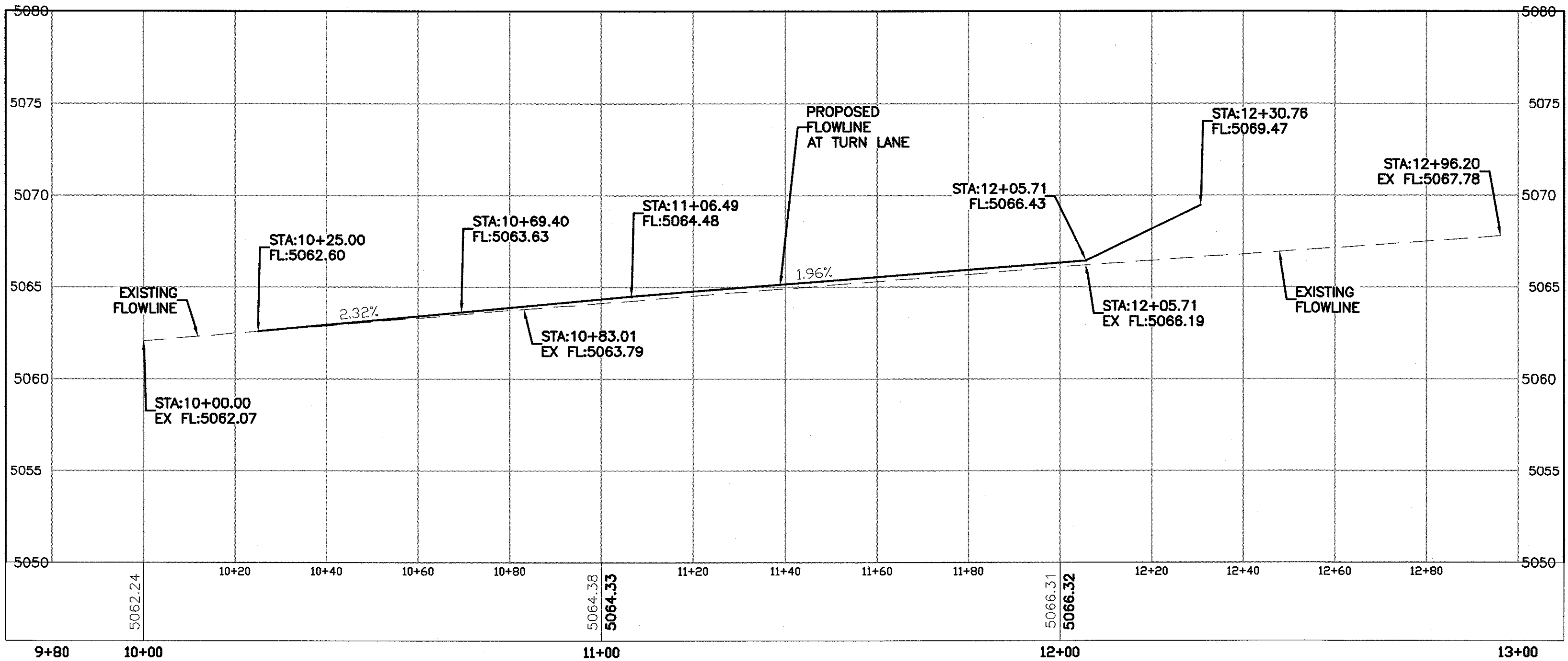
ENGINEER'S SEAL	DRAWN BY BF
DATE 1-17-19	DRAWING 2018039-GR
SHEET # <b>C2</b>	JOB # 2018039





- KEYED NOTE:**
- 1 6" CONC. SIDEWALK PER COA. DWG # 2430
  - 2 NEW HC RAMP, SEE DETAIL SHEET 9
  - 3 6" VALLEY GUTTER PER COA STD DWG 2420
  - 4 STANDARD CURB & GUTTER PER COA STD DWG 2415A
  - 5 2' SIDEWALK CULVERT PER COA STD DWG 2236

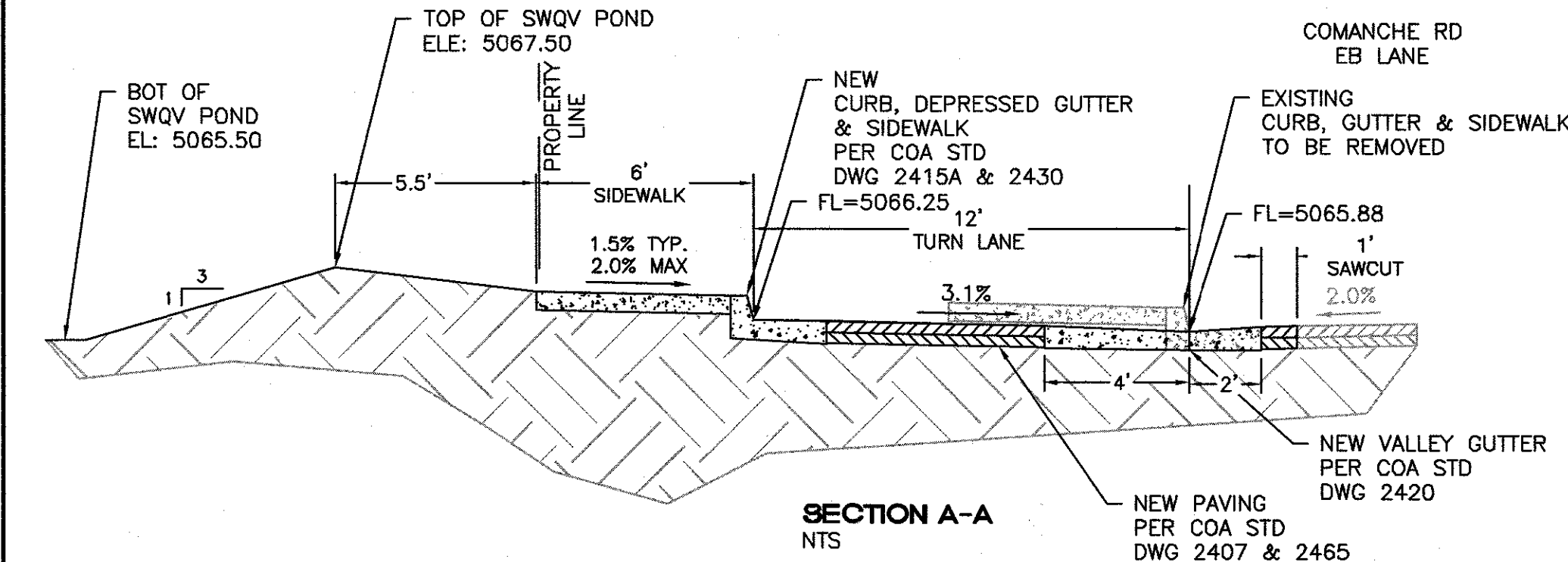
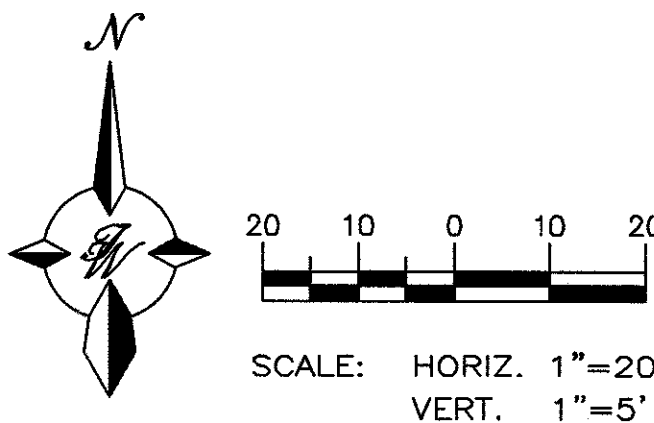
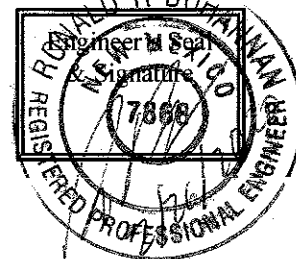
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  - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
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  - BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
  - MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
  - WORK ON ARTERIAL STREETS MAY REQUIRE A 24-HOUR BASIS.



FLOWLINE PROFILE

**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Wayjohn Surveying Inc. NMPS number 14269



Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	25.00	N87° 05' 49.82"E	(1529651.56,1500519.20)	(1529676.53,1500520.47)
L3	58.01	N87° 34' 50.30"E	(1529676.53,1500520.47)	(1529734.49,1500522.92)
L4	122.70	S89° 37' 35.91"E	(1529734.49,1500522.92)	(1529857.18,1500522.12)
L5	90.50	S89° 29' 44.57"E	(1529857.18,1500522.12)	(1529947.67,1500521.32)

Line Table		
Line #	Length	Direction
L1	82.13	S89° 33' 51.34"E

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	45.04	150.00	17.21	S83° 19' 30"E	44.89
C2	37.21	150.00	14.21	S81° 49' 41"E	37.12
C4	39.01	25.00	89.38	S44° 52' 05"E	35.28

**Tierra West, LLC**  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NM 87109  
(505)858-3100  
www.tierrawestllc.com

**CITY OF ALBUQUERQUE**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

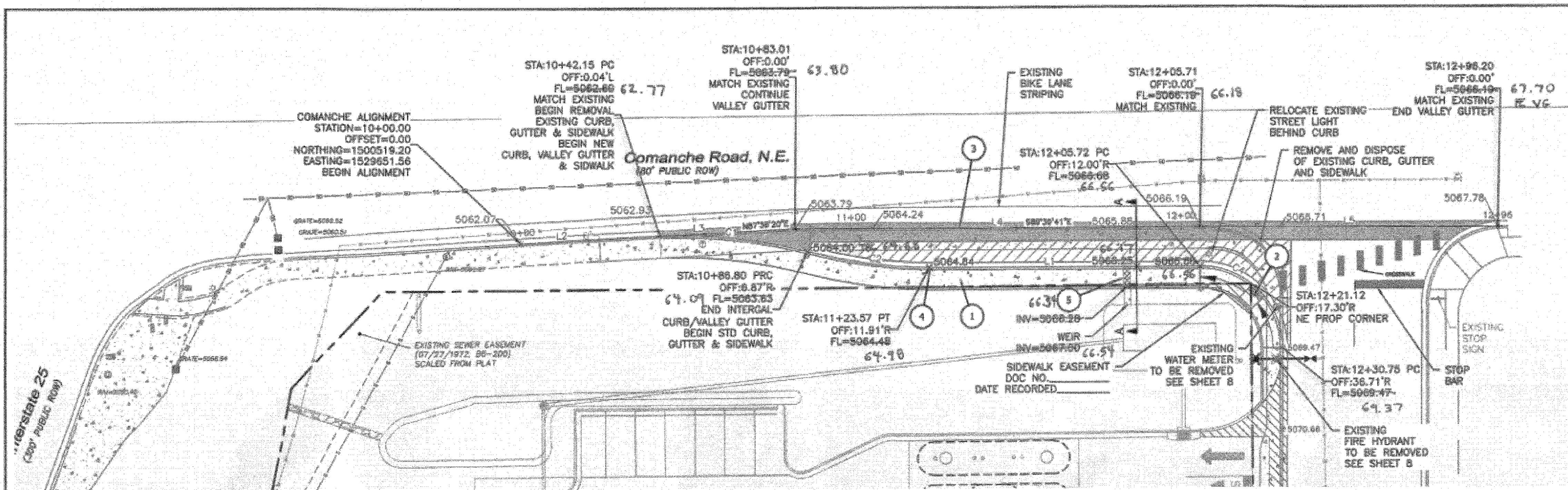
**MAVERIK**  
PAVING IMPROVEMENTS  
COMANCHE RD. NE: STA: 10+00 TO 12+50

DESIGN REVIEW COMMITTEE	CITY ENGINEER-APPROVAL	MO./DAY/YR.	MO./DAY/YR.
AUG 27 2019	AUG 27 2019		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

CITY PROJECT NO.	745503	ZONE MAP NO.	G-16-Z	SHEET	5	OF	11
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Z:\2018\20180326\_Maverik\_Comanche & Princeton\dwg\Construction\20180326\_PV\_Comanche.dwg, Apr 30, 2019 - 9:39am



#### LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- BUILDING
- SIDEWALK
- VALLEY GUTTER
- NEW PAVEMENT
- EXISTING CURB & GUTTER

#### KEYED NOTE:

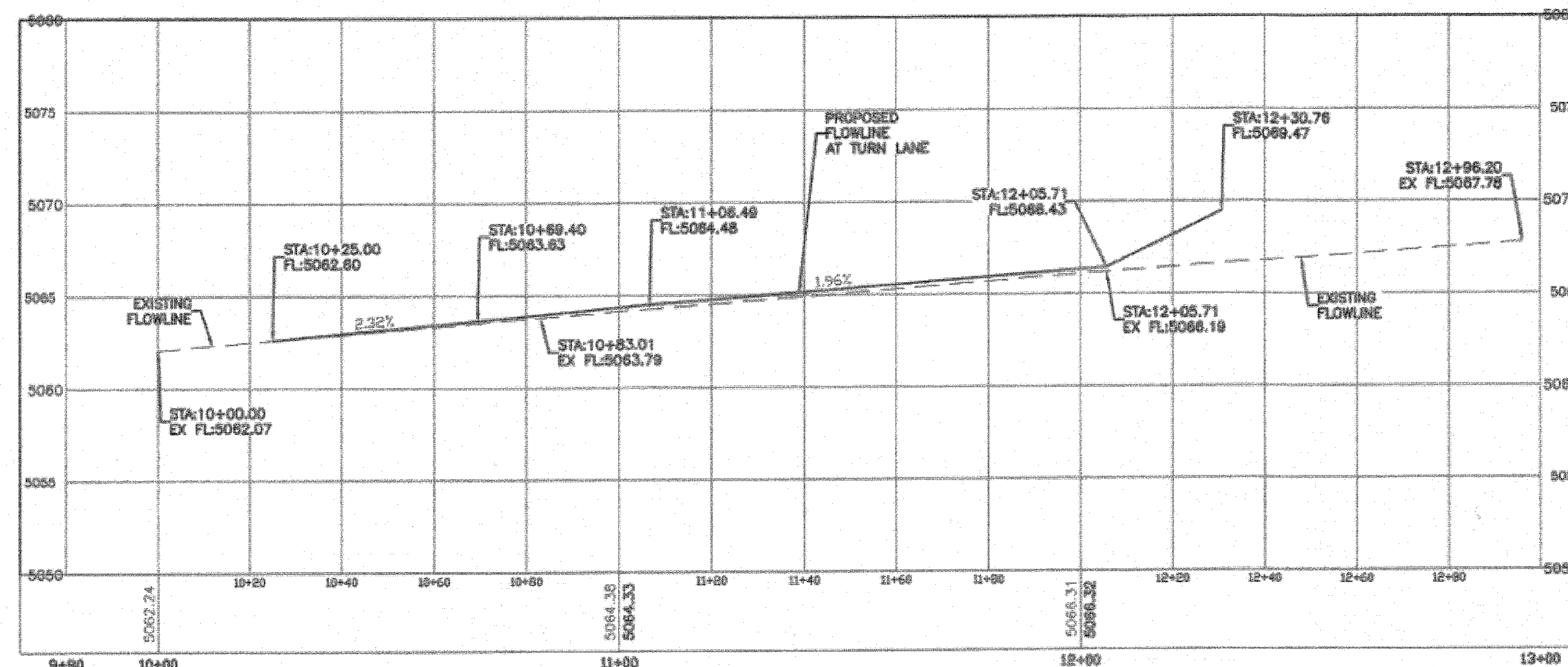
- 1' CONC. SIDEWALK PER COA DWG # 2430
- 2' NEW HC RAMP, SEE DETAIL SHEET 9
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- 5' 2' SIDEWALK CULVERT PER COA STD DWG 2236

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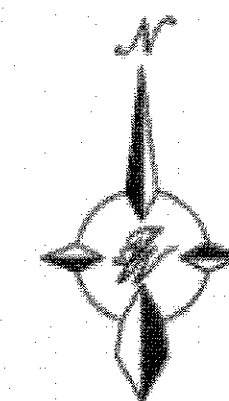
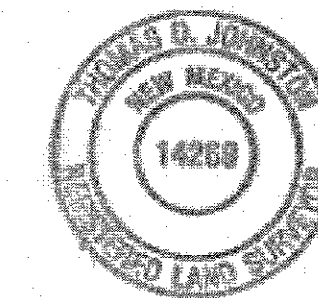
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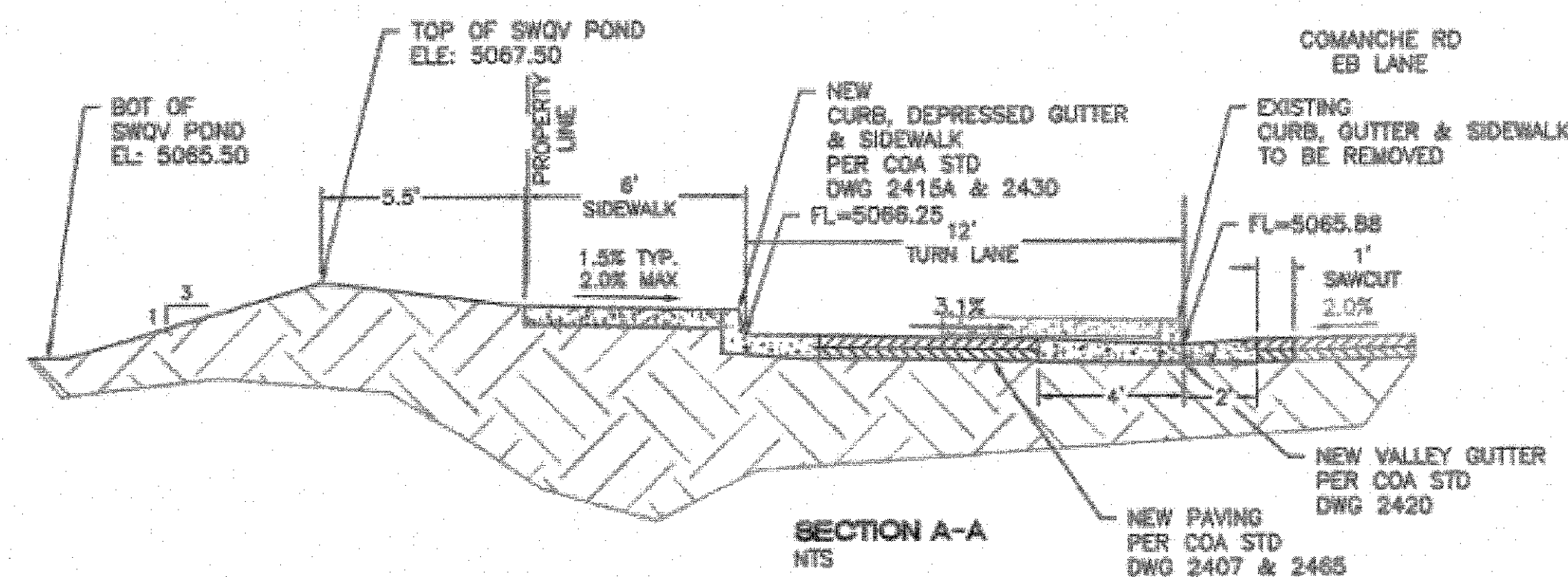
#### FLOWLINE PROFILE

#### SURVEYOR'S CERTIFICATION

I, THOMAS D. JOHNSTON, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME, OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. WAYJOHN SURVEYING IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS.



SCALE: HORIZ. 1"=20'  
VERT. 1"=5'



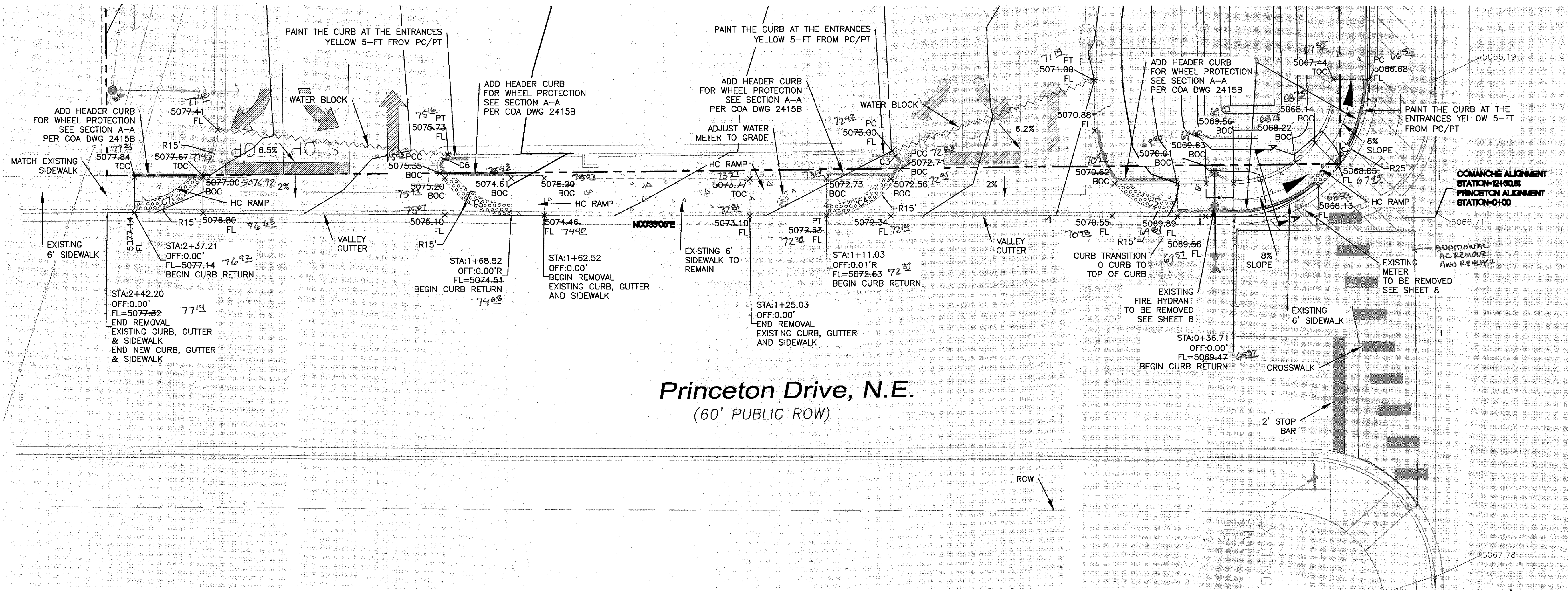
Line Table Alignments				
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Line Table		
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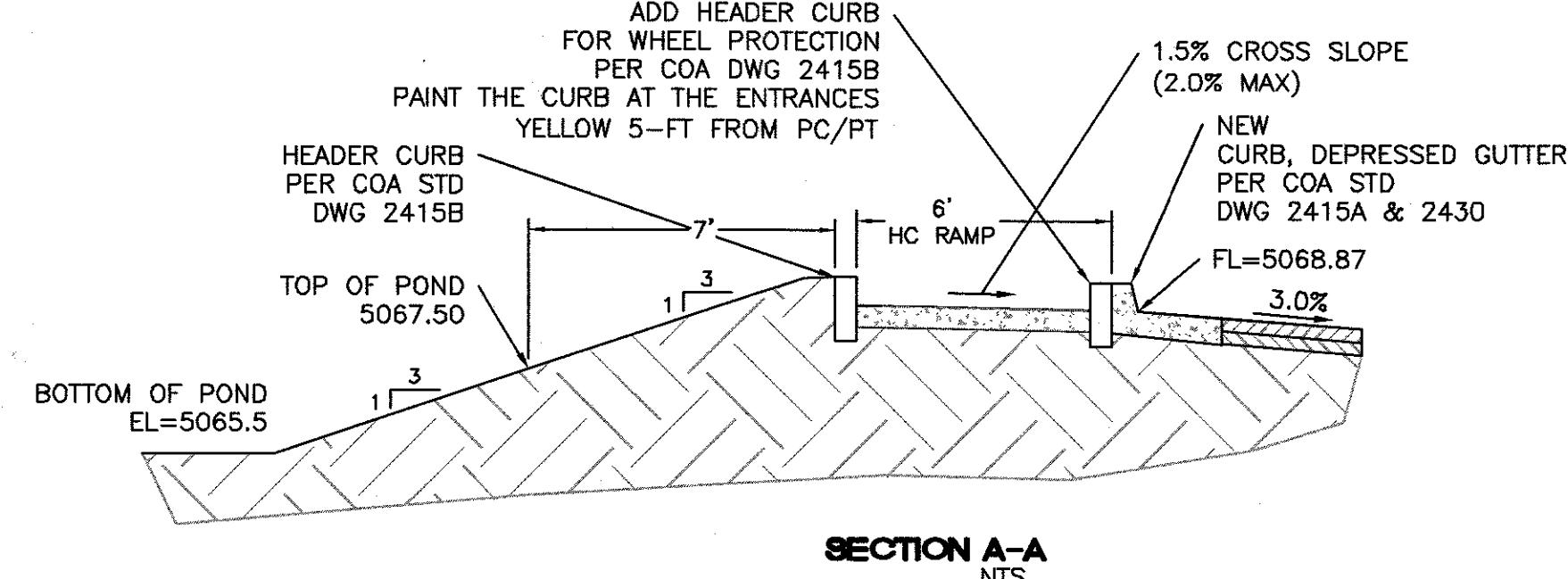
Curve Table				
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C4	39.01	25.00	89.38	S44° 52' 05"E

TERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100 www.terrawestllc.com	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: COMANCHE RD. NE: STA: 10+00 TO 12+50	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
DESIGNED BY: RS	DATE: 01/04/2019
DRAWN BY: BF	DATE: 01/04/2019
DRAWING NAME: 20180326_PV_COMANCHE	JOB NO.: 2010001
CHECKED BY: RS	DATE: 01/04/2019
CITY PROJECT NO.	745503
ZONE MAP NO.	G-16-Z
SHEET	5 OF 11

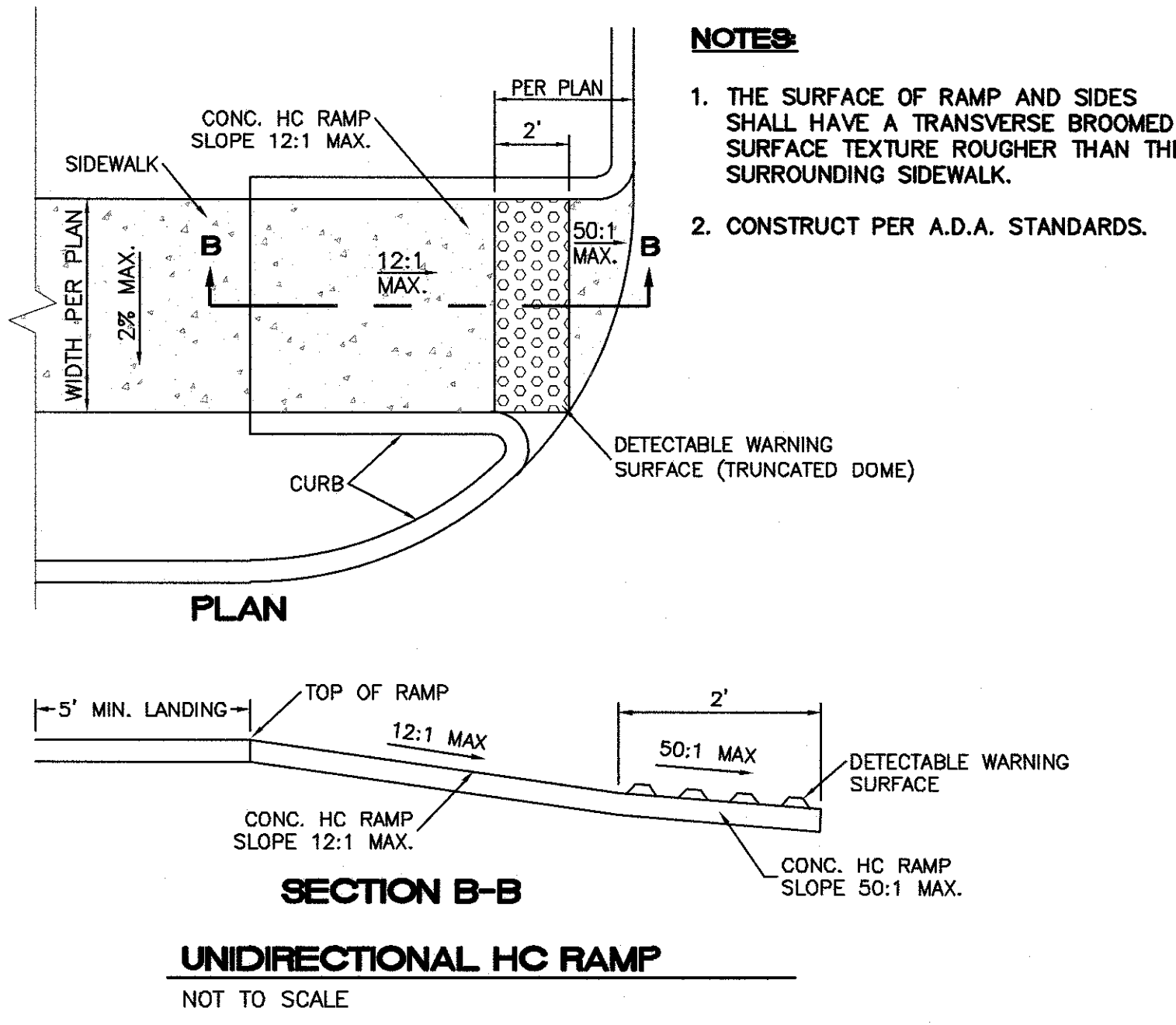




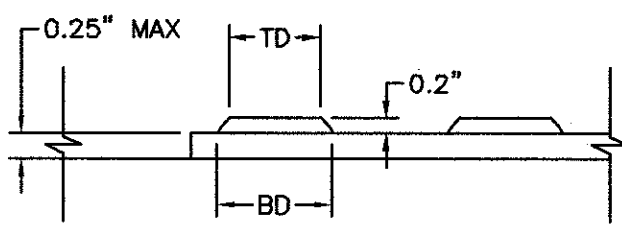
Princeton Drive, N.E.  
(60' PUBLIC ROW)



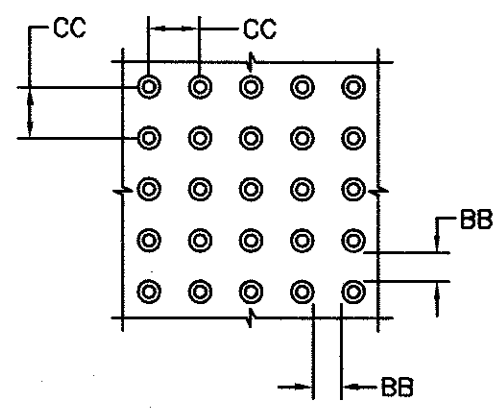
SECTION A-A  
NTS



- NOTES:**
1. THE SURFACE OF RAMP AND SIDES SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
  2. CONSTRUCT PER A.D.A. STANDARDS.



**DOME SECTION**  
BD - BASE DIAMETER 0.9\"/>



**DOME SPACING**  
CC - CENTER TO CENTER SPACING 2.35\"/>

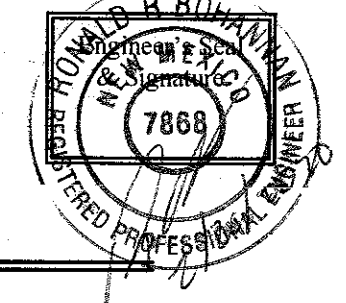
Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	39.01	25.00	89.40	N44° 51' 55\"/>	35.17
C3	4.61	2.00	131.73	S65° 55' 55\"/>	3.66
C6	4.71	2.00	135.04	S65° 52' 47\"/>	3.70
C2	23.56	15.00	90.00	N45° 00' 00\"/>	21.21
C4	17.43	15.00	86.56	N32° 40' 43\"/>	16.46
C5	16.46	15.00	62.88	N31° 57' 06\"/>	15.65
C7	23.76	15.00	90.76	N44° 37' 10\"/>	21.35

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8. PAINT THE CURB AT THE ENTRANCES YELLOW 5-FT FROM PC/PT

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

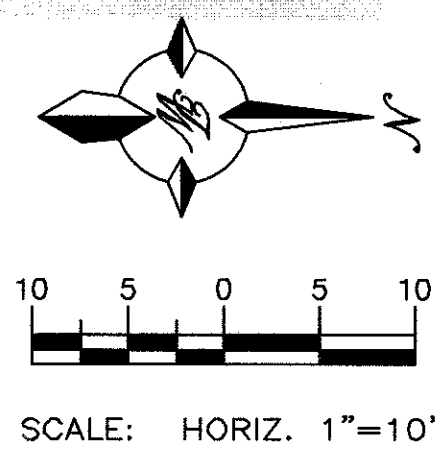
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Waviohn Surveying Inc, NMPS number 14269.



LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- BUILDING
- SIDEWALK
- VALLEY GUTTER
- NEW PAVEMENT
- EXISTING CURB & GUTTER
- BOTTOM OF CURB
- TOP OF CURB

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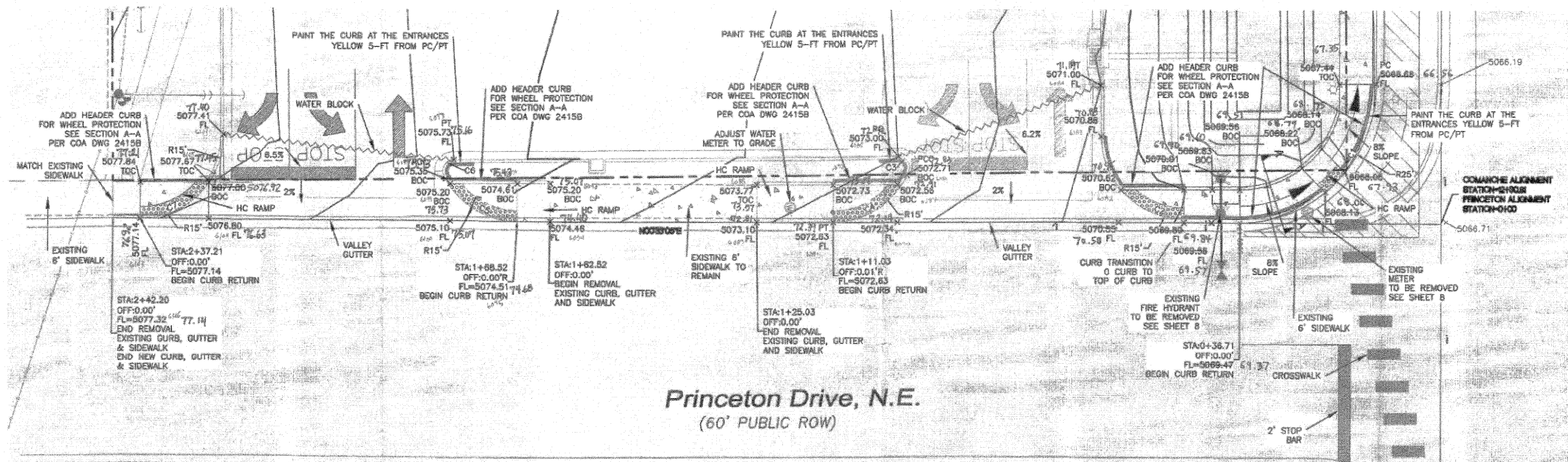


AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR TLR: 20180339	WORK STAMPED BY: 20180339	DATE: 2019	DATE: 2019	STA 1+40.12	CENTRAL STATION DATA	DATE	DATE	NO.	BY	DATE	DATE				
ADJUSTED BY: 20180339	ADJUSTED BY: 20180339	DATE: 2019	DATE: 2019	NM STATE PLANE COORDINATES	DATE	DATE	DATE	NO.	BY	DATE	DATE				
FIELD CHECKED BY: 20180339	FIELD CHECKED BY: 20180339	DATE: 2019	DATE: 2019	(CENTRAL ZONE-N.A.D. 1983)	DATE	DATE	DATE	NO.	BY	DATE	DATE	REVISIONS			
CORRECTED BY: 20180339	CORRECTED BY: 20180339	DATE: 2019	DATE: 2019	N=1,495,236.843	DATE	DATE	DATE	NO.	BY	DATE	DATE				
MICRO-FILM INFORMATION				E=1,532,017.743	DATE	DATE	DATE	NO.	BY	DATE	DATE	DESIGN			
RECORDED BY:				G-G=0.998672575	DATE	DATE	DATE	NO.	BY	DATE	DATE				
NO.				De=071230.45"	DATE	DATE	DATE	NO.	BY	DATE	DATE	DRAWING NAME: 20180339_PV_PRINCETON			
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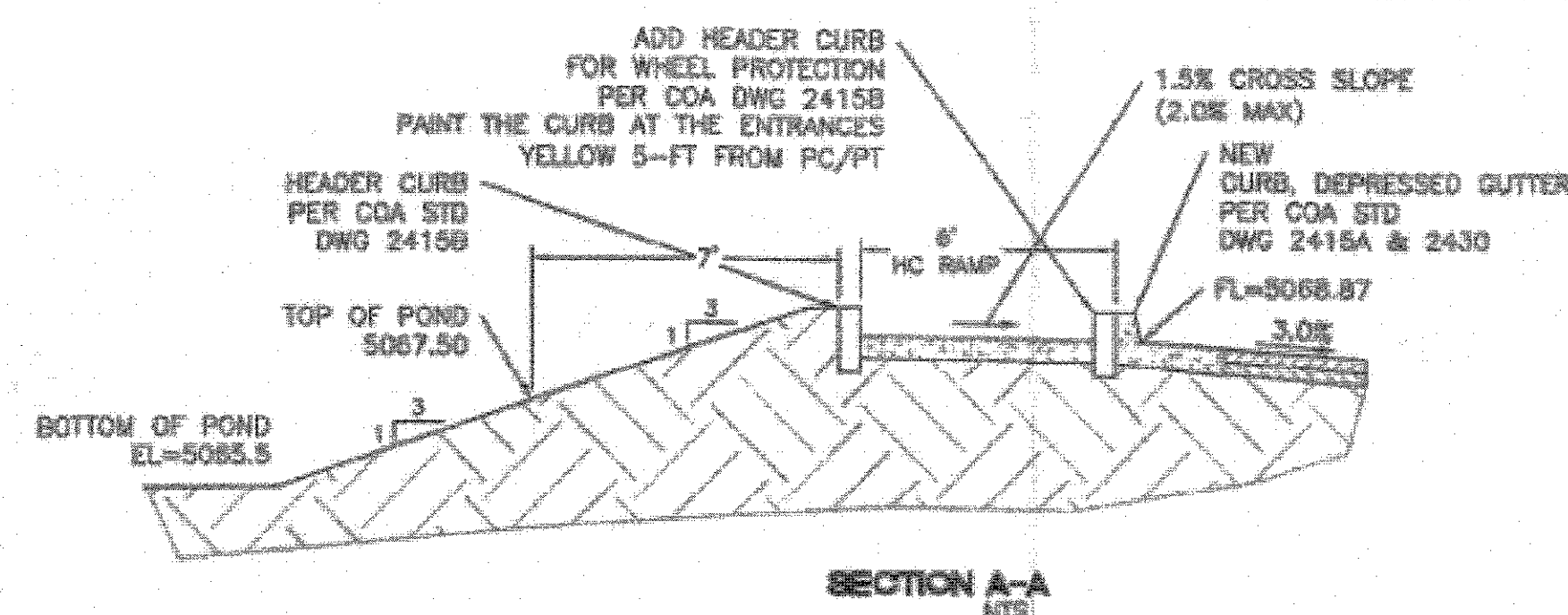
<b>TIERRA WEST, LLC</b> 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100 www.tierrawestllc.com			
<b>CITY OF ALBUQUERQUE</b> PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: <b>MAVERIK</b> PAVING IMPROVEMENTS PRINCETON DR. NE:			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
AUG 27 2019	AUG 27 2019		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	
CITY PROJECT NO. 745503	ZONE MAP NO. C-16-Z	SHEET 6	OF 11

Z:\2018\20180339\_Maverik\_Comanche & Princeton.dwg Construction 20180339\_PV\_Princeton.dwg Aug 22, 2019 11:35am



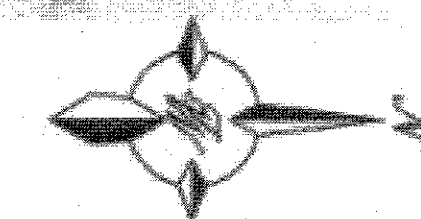
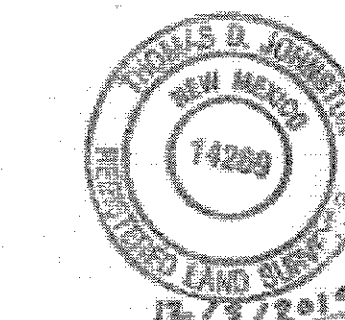


Princeton Drive, N.E.  
(60' PUBLIC ROW)

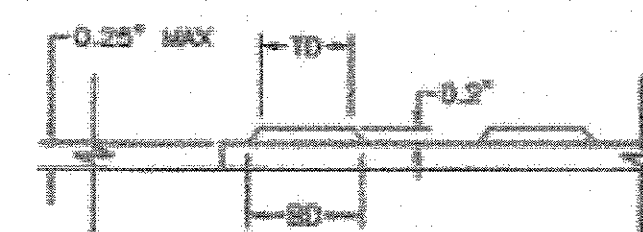
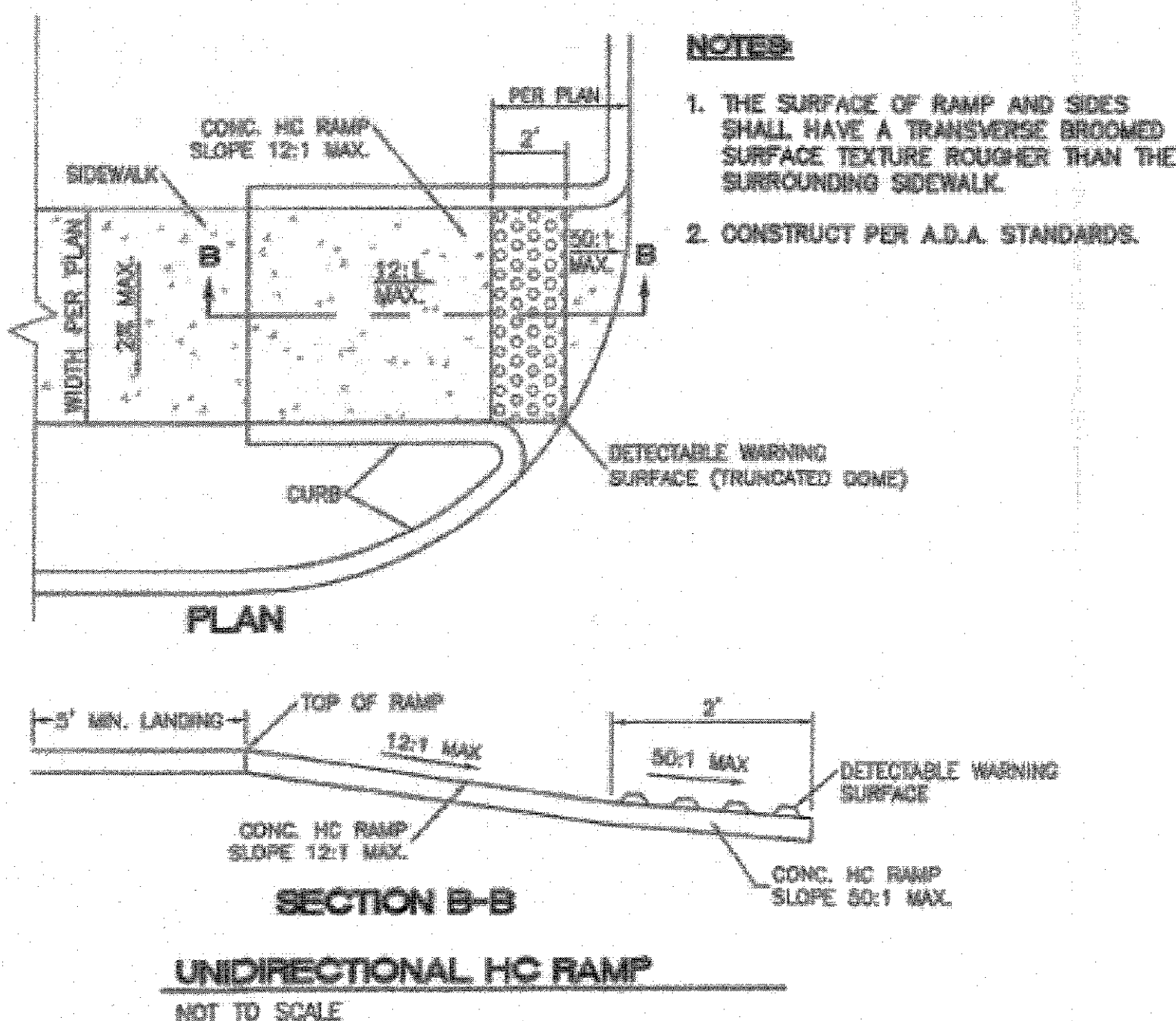


Curve #	Length	Radius	Delta	Chord Direction	Chord Length
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C5	16.46	15.00	62.88	N31° 57' 06"E	15.46
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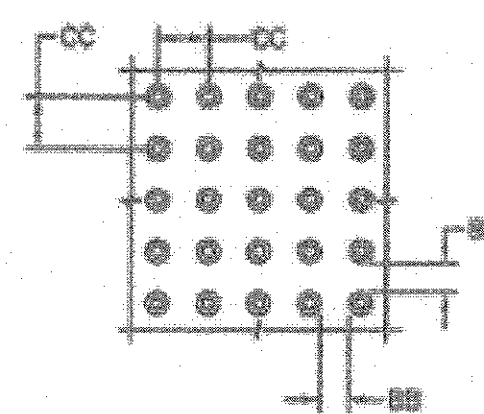
### SURVEYOR'S CERTIFICATION



SCALE: HORIZ. 1"=10'















BD - BASE DIAMETER 0.5" MIN  
TD - TOP DIAMETER 50% OF BD MIN TO  
85% OF BD MAX



CC - CENTER TO CENTER SPACING 2.35"  
BB - BASE TO BASE SPACING 1.45" MIN

## NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 785-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
8. PAINT THE CURB AT THE ENTRANCES YELLOW 5-FT FROM PC/PT

- |   |                |
|---|----------------|
|  | CURB & GUTTER  |
|  | BOUNDARY LINE  |
|  | EASEMENT       |
|  | CENTERLINE     |
|  | RIGHT-OF-WAY   |
|  | BUILDING       |
|  | SIDEWALK       |
|  | VALLEY GUTTER  |
|  | NEW PAVEMENT   |
|  |                |
|  | BOTTOM OF CURB |
|  | TOP OF CURB    |

**CAUTION**

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TERESA WEST LLC

5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NM 87109  
(505)858-3100  
www.thermoastile.com

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: **MAVERIK**  
PAVING IMPROVEMENTS  
PRINCETON DR. NE:

DESIGN REVIEW COMMITTEE

AUG 27 2019

REVIEW COMMITTEE

CITY ENGINEER APPROVAL

AUG 27 2013

CITY ENGINEER

IT DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

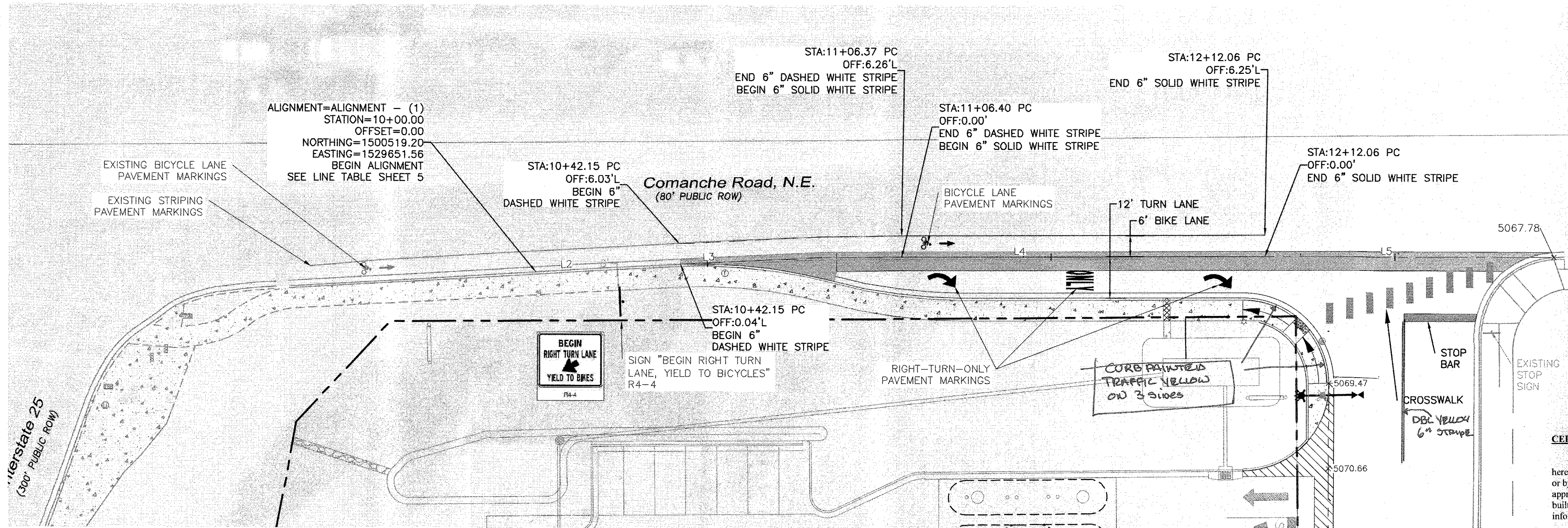
CITY PROJECT NO. 745503

ZONE MAP NO.  
G-16-7

SHEET 6 OF 11

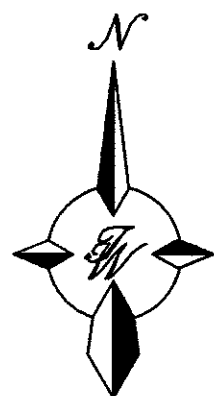
ABCWUA AVAILABILITY STATEMENT  
NO. 180723





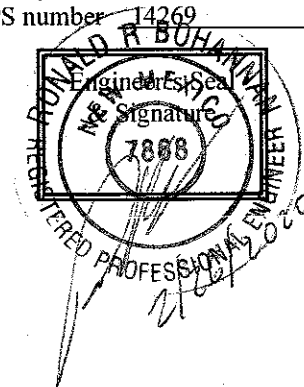
LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- CENTERLINE
- RIGHT-OF-WAY
- 4" DASHED WHITE LINE
- 4" SOLID WHITE STRIPE



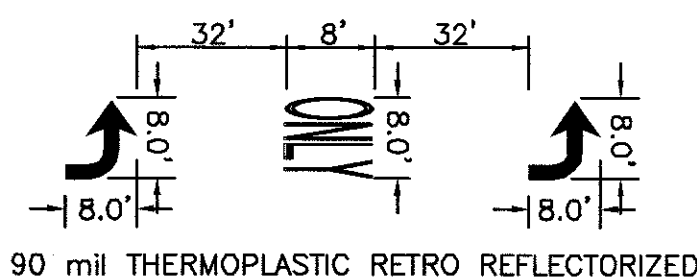
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Wayjohn Surveying Inc, NMPS number 11369.

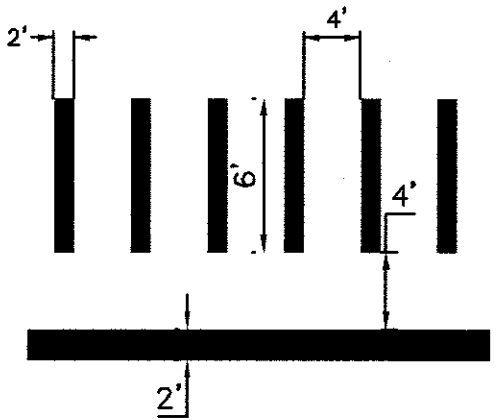


GENERAL NOTES

- OBLITERATE ALL EXISTING STRIPING AND PAVEMENT MARKING UNLESS OTHERWISE SPECIFIED
- EXISTING MARKINGS IDENTIFIED TO BE REMOVED SHALL BE COMPLETELY OBLITERATED TO A MAXIMUM DEPTH OF 0.25" AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED, PER COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 443.3.2
- ALL SIGNS SHALL BE MADE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.
- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.



ARROW DETAILS NTS



ALL PAVEMENT MARKINGS SHALL CONFORM TO M.U.T.C.D. SPECS (LATEST EDITION)

CROSSWALK DETAIL (CONTINENTAL) NTS

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

PERMANENT SIGNING AND STRIPING NOTES

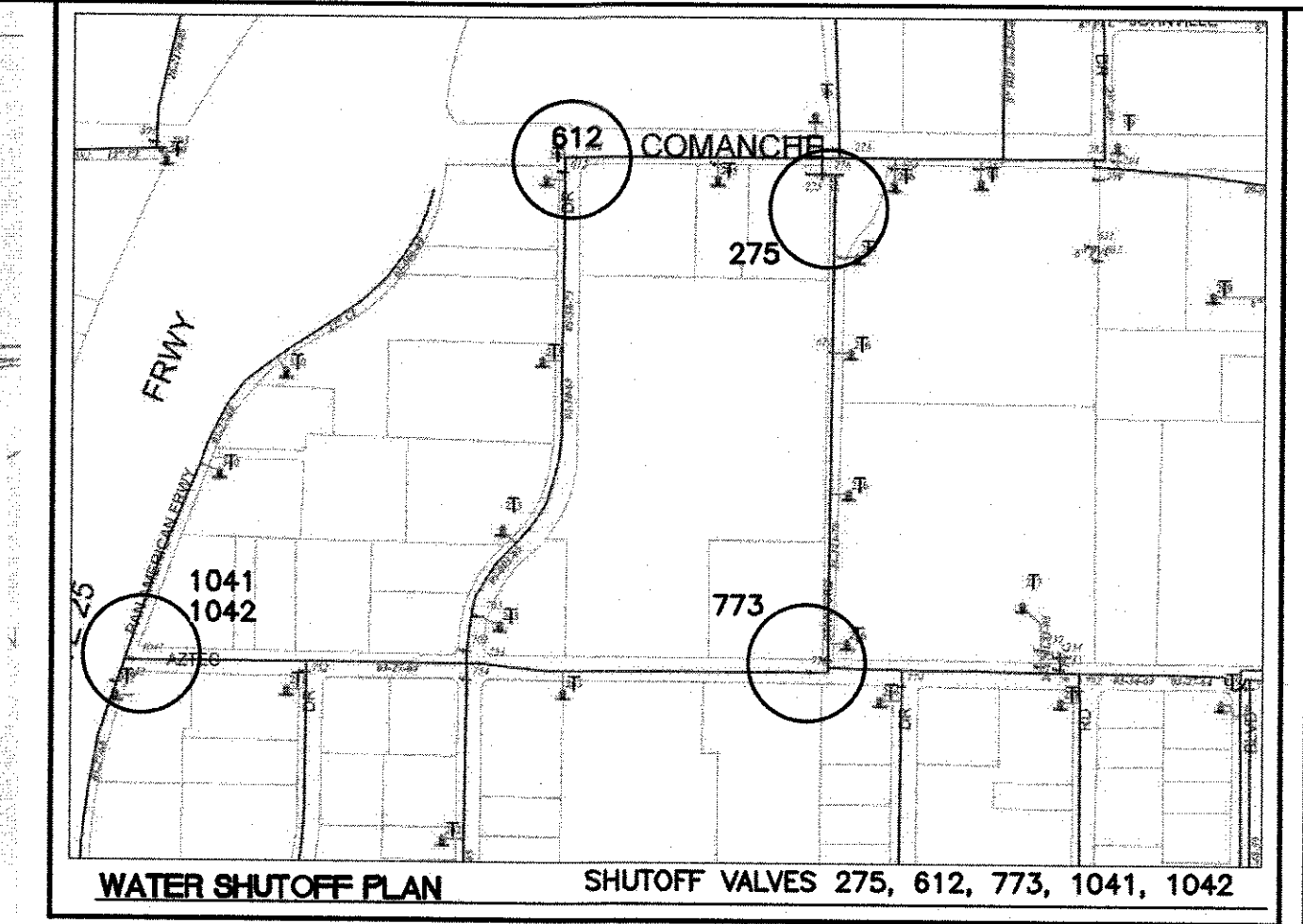
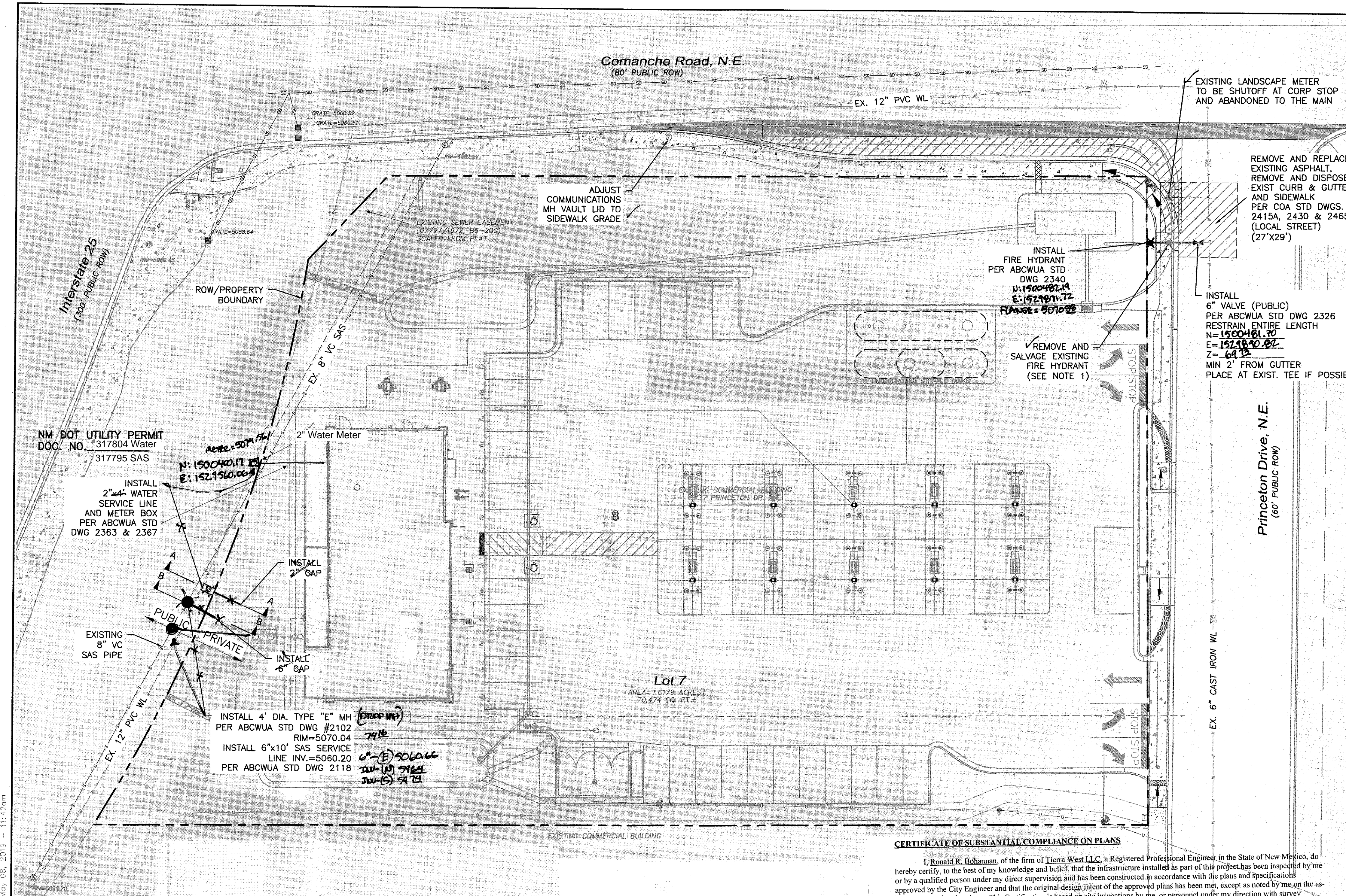
- ALL REGULATORY, WARNING, SPECIAL, AND GUIDE SIGNS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING
STOP	R1-1	(W/RED)	TYPE VII OR IX	TYPE XI
YIELD	R1-2	(W/RED)	TYPE VII OR IX	TYPE XI
DO NOT ENTER	R5-1	(W/RED)	TYPE VII OR IX	TYPE XI
WRONG WAY SCHOOL BUS STOP	R5-1A S3-1	(W/RED) (BLK/FLUORESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
SCHOOL BUS X-ING	S1-1	(BLK/FLUORESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
PEDESTRIAN X-ING	W11-2	(BLK/FLUORESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
BIKE X-ING	W11-1	(BLK/FLUORESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
ALL SCHOOL/PE/BIKE SUPPLEMENTAL PLAQUES		(BLK/FLUORESCENT YELLOW GREEN)WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI
ALL OTHER WARNING SIGNS AND SUPPLEMENTAL PLAQUES		(BLK/FLUORESCENT YELLOW GREEN)WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI
GUIDE & DESTINATION SIGNS INCLUDES EXTRUDED & NON-EXTRUDED (OVERHEAD & GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE VII OR IX	TYPE XI
E-CODE SIGNS	E11-1, 1A 1B, 1C	(BLK/YELLOW)	TYPE VII OR IX	TYPE XI
RECREATIONAL & CULTURAL INTEREST	ALL	(W/BROWN)	TYPE VII OR IX	TYPE XI
GENERAL SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI
SPECIFIC SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI
ALL OTHER PERMANENT SIGNS		(BLK/WHITE) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE IV	TYPE XI

- ONLY 0.125 INCHES THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.
- ANTI-GRAFFITI COATING SHALL BE APPLIED ON ALL REGULATORY, WARNING, GUIDE, AND OTHER SPECIAL SIGNS.
- QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH NM STANDARDS SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/ OR SUPPLEMENTAL SPECIFICATION. ALSO THE DEVICES SHALL COMPLY WITH THE CURRENT EDITION, WITH REVISION, OF THE MUTCD.
- EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- POST LENGTHS ARE BASED ON A MINIMUM OF 5 FT FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FT FOR URBAN AND INTERSTATE ROADWAY SECTIONS. THE LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO NEAR EDGE OF THE DRIVING LANE.
- THE LATERAL CLEARANCE OF SIGNS SHALL BE NO CLOSER THAN THE 6 FT FROM THE EDGE OF SHOULDER OR 12 FT FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FT FROM FACE OF CURB FOR URBAN AREAS.
- ALL SIGNING HARDWARE, INCLUDING BRACKETS, (FOR MOUNTING ALL STREET NAME SIGNS, W1-8 BACK TO BACK MOUNTING, ETC.) ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION. THEREFORE, NO PAYMENT WILL BE MADE.
- THREE 4 LB/FT SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (SIGN WIDTH OF 96" OR GREATER).
- 3"-6" BASE POST ARE REQUIRED FOR ALL SMALL SIGN POST. SEE STANDARD SERIAL DRAWING 701-02-1/3 FOR DETAILS.
- SIGN POST SHALL BE SQUARE TUBING AS APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY ALL SIGNING INFORMATION, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.
- HOT THERMOPLASTIC PAVEMENT MARKINGS SHALL TO BE USED ON ALL STRIPING (LONG LINES, CROSSWALKS, LEGENDS, SYMBOLS, ETC.) THE THERMOPLASTIC PAINT SHALL BE APPLIED AT A THICKNESS OF 120 MIL.
- WATER BLASTING IS THE ONLY APPROVED METHOD OF EXISTING STRIPE REMOVAL WITHIN DISTRICT THREE. THE USE OF BLACK PAINT AS A METHOD OF REMOVING OR COVERING EXISTING STRIPING IS STRICTLY PROHIBITED.

<p><b>TERRA WEST, LLC</b> 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100 www.tierrowestllc.com</p>	
<p><b>CITY OF ALBUQUERQUE</b> PUBLIC WORKS DEPARTMENT ENGINEERING GROUP</p>	
<p><b>MAVERIK</b> STRIPING IMPROVEMENTS COMANCHE RD. NE: STA: 10+00 TO 12+50</p>	
<p>DESIGN REVIEW COMMITTEE MAY 14 2019</p>	<p>CITY ENGINEER APPROVAL AUG 27 2019 CITY ENGINEER</p>
<p>CITY PROJECT NO. 745503</p>	<p>ZONE MAP NO. G-16-Z</p>
<p>SHEET 7</p>	<p>OF 11</p>





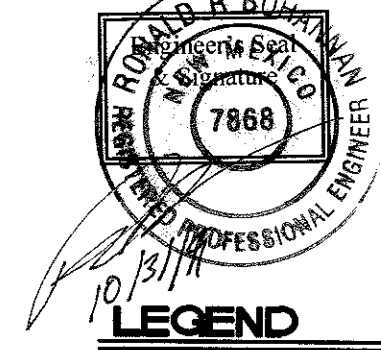
THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/WATER\\_MAIN\\_SHUTOFF.ASPX](http://abcwua.org/water_main_shutoff.aspx)

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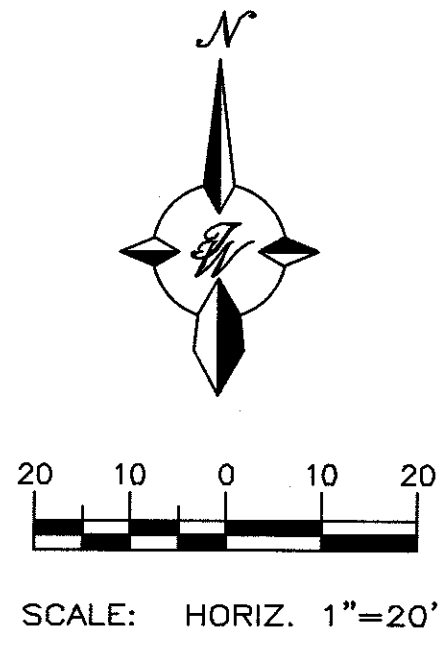
- NOTICE TO CONTRACTORS**
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  5. BACKFILL COMPACTION SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY AND CONFORM TO NM DOT SPECIFICATION 2019 WHEN IN DOT ROW.
  6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
  7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

- NOTE**
1. CONTACT O/M WATER SUPERINTENDENT AT (505-289-3328)
  2. REFER SHEET 10 FOR JOINT RESTRAINT TABLE
  3. REFER SHEET 10 AND 11 FOR TRACER WIRE DETAILS

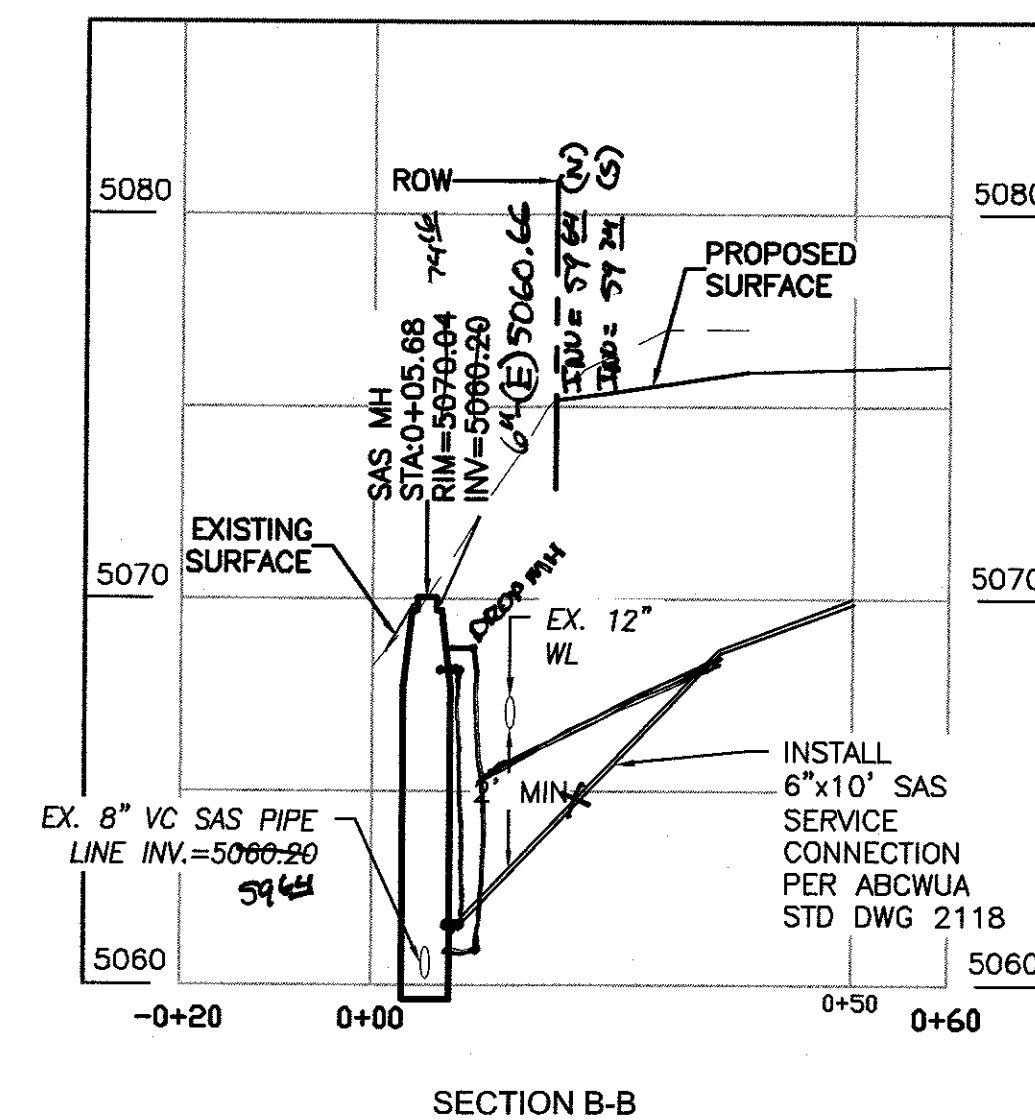
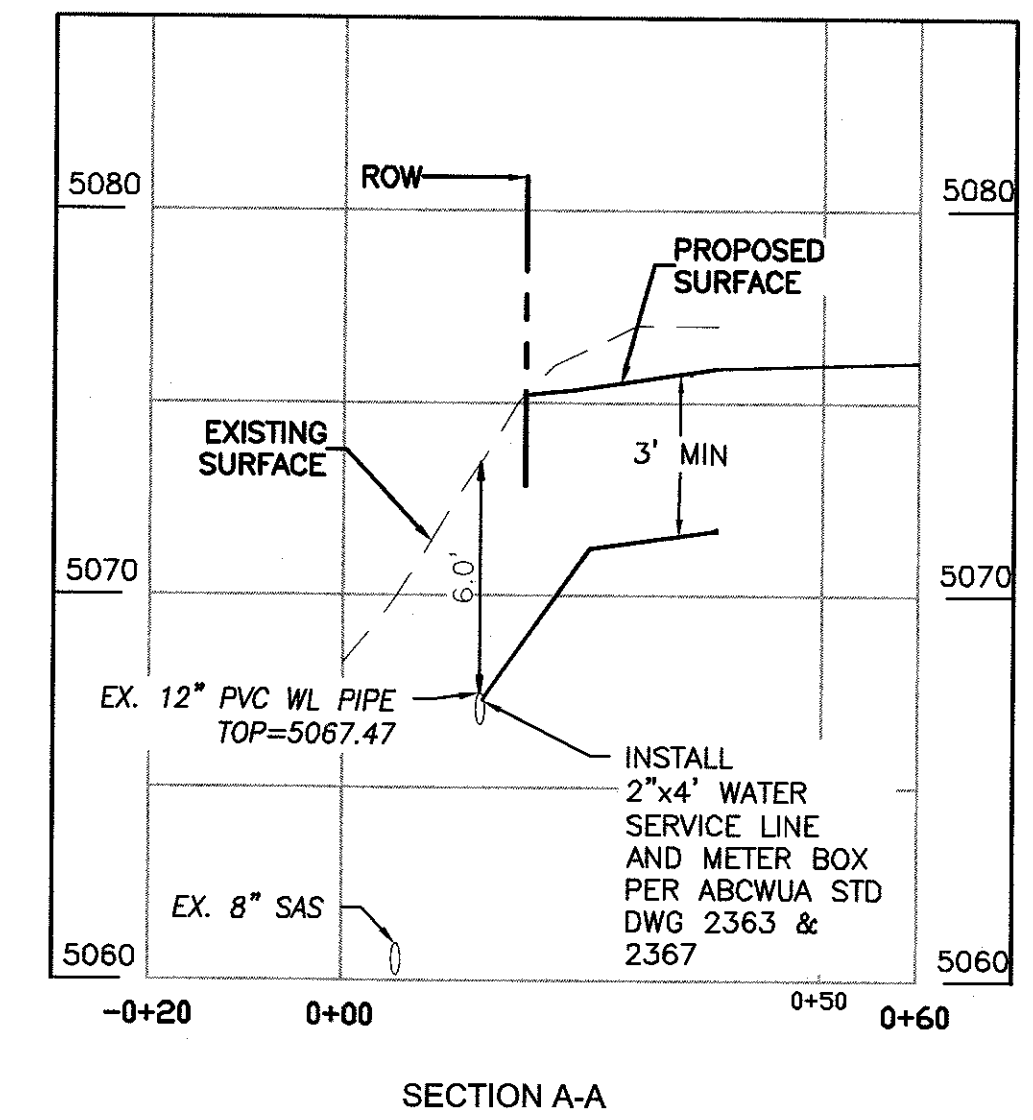
**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**  
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Wayjohn Surveying Inc, NMPS number 14269



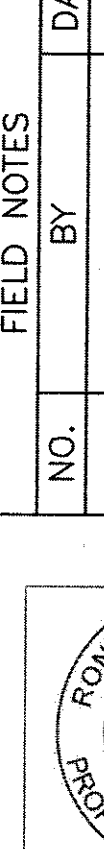
- LEGEND**
- CURB & GUTTER
  - BOUNDARY LINE
  - EASEMENT
  - CENTERLINE
  - RIGHT-OF-WAY
  - BUILDING
  - SIDEWALK
  - VALLEY GUTTER
  - NEW PAVEMENT
  - EXISTING CURB & GUTTER



ABCWUA AVAILABILITY STATEMENT NO. 180723



IF METER IS NOT INSTALLED IN NM DOT ROW A UTILITY EASEMENT IS REQUIRED. DOCUMENT NO.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		STA 1_40_12		CONTRACTOR TCC BLUMENHUIS	
		NO.	BY	DATE	CENTRAL STATION DATA	STARTED BY JUAN CASHAW DATE 2019	
					NM STATE PLANE COORDINATES	INSPECTOR'S	
					(CENTRAL ZONE-N.A.D. 1983)	FIELD CHANGE BY ARKEL/2019/TUE/11/2019	
					N=1,495,236.843	FIELD VERIFICATION BY JUAN CASHAW DATE 2019	
					E=1,532,017.743	CORRECTED BY TULLUC	
					G-O=0.999672575	MICRO-FILM INFORMATION	
					Dg=0712 30.45"	RECORDED BY	
					Elev=5117.289	DATE	
						NO.	





NTS

- NOTES:

1. WHEELCHAIR RAMPS ARE AS COA STD DWG #2441 CASE II, EXCEPT THE RAMP WIDTH WILL VARY TO MEET A 12:1 MAX. SLOPE.
2. TRUNCATED DOME DESIGN NEEDS TO FOLLOW ADA GUIDELINES.
3. FOR TRUNCATED DOMES, SUBMIT DESIGN/SPEC'S TO CITY CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.



BD - BASE DIAMETER 0.9" MIN  
TD - TOP DIAMETER 50% OF BD MIN TO  
65% OF BD MAX



CC - CENTER TO CENTER SPACING 2.35"  
BB - BASE TO BASE SPACING 1.48" MIN



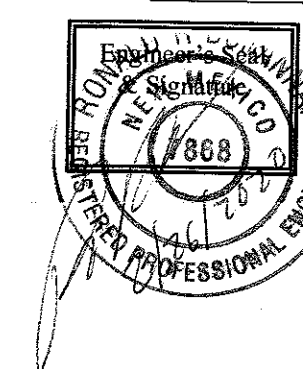
**NOTE:**

**NOTE:**  
ALL SYMBOLS, STOP BARS AND CROSSWALKS  
SHALL BE PREFORMED THERMOPLASTIC TAPE.



**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

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1. COMPACTION AS DETERMINED BY ASTM D1557 MAX DENSITY.
2. TRENCH CUT WIDTHS SHALL BE MIN. WITH REQ'D FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL COMPACTION AND COMPLIANCE WITH CURRENT AND APPLICABLE SAFETY REGULATIONS.
3. ALL PAVEMENTS CUT EDGES WILL BE TRIMMED TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIAL "STITCH" CUTTING OF PAVEMENT WILL NOT BE PERMITTED.

### PAVEMENT CUT FOR UTILITIES

NTS

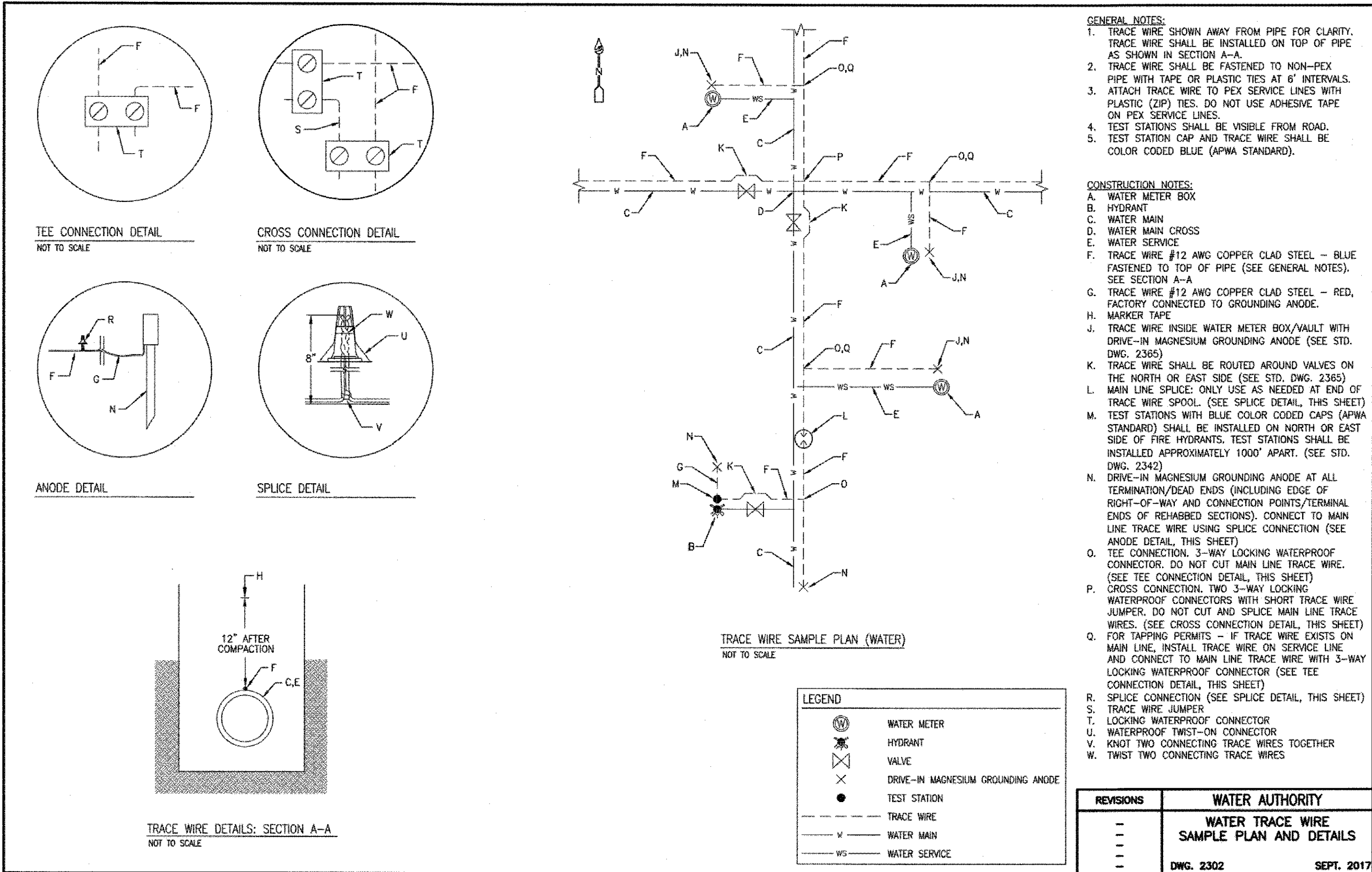


NTS

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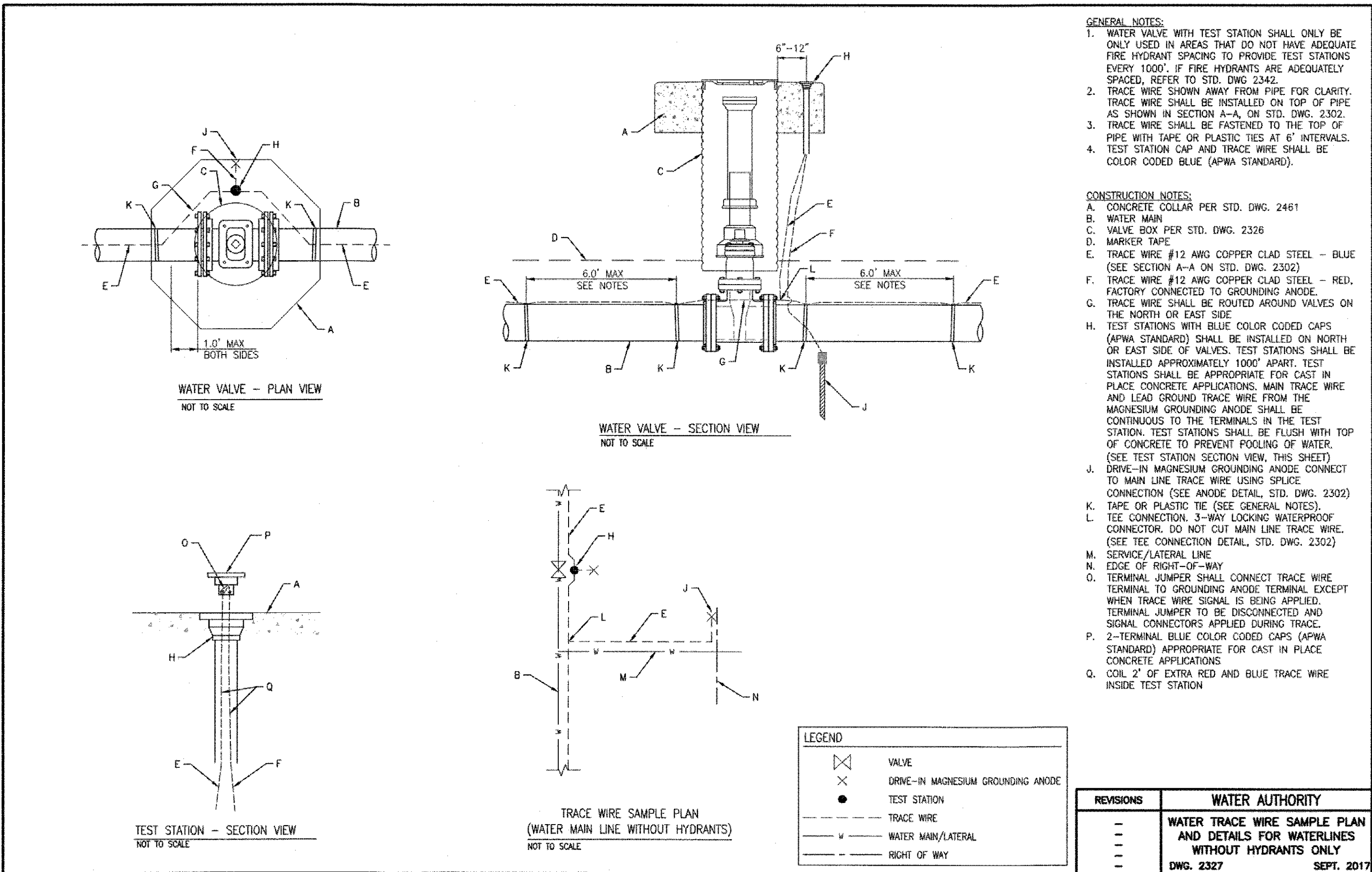
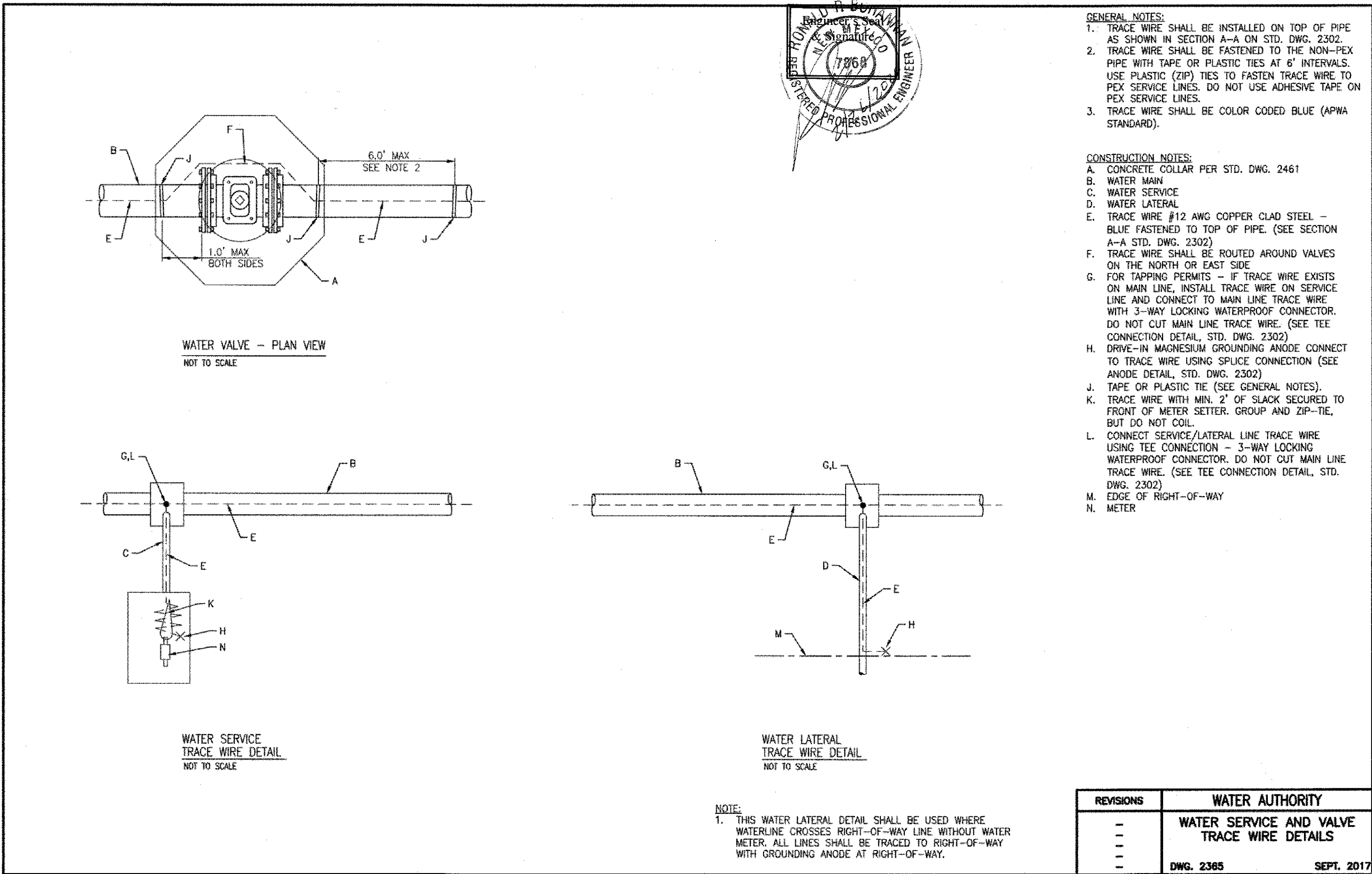
QUE RTMENT UP		
TAILS -00 TO 12+50		
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
NO. Z	SHEET	OF
	9	11





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THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES*						
SIZE	LENGTH ALONG RUN**					
	10'	8'	6'	4'	2'	0'
12x12x12	61	68	76	83	90	98
12x12x10	39	48	56	65	74	83
12x12x8	15	26	37	48	59	70
12x12x6	1	1	9	24	38	53
12x12x4	1	1	1	1	16	37
10x10x10	46	54	61	68	76	83
10x10x8	25	34	43	52	61	70
10x10x6	1	5	17	29	41	53
10x10x4	1	1	1	2	20	37
8x8x8	34	42	49	56	63	70
8x8x6	6	15	25	34	43	53
8x8x4	1	1	1	1	10	24
6x6x6	7	24	31	39	46	53
6x6x4	1	1	6	17	27	37

\*RESTRAINTS ONLY PLACED ON THE BRANCH  
\*\*LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)					
SIZE	HORIZONTAL BENDS				
	90°	45°	22-1/2°	11-1/4°	DEAD END
12	45	19	9	4	102
10	38	16	8	4	86
8	32	13	6	3	72
6	25	10	5	2	55
4	18	7	4	1	39

RESTRAINED JOINT LENGTHS FOR REDUCERS***			
SIZE	L. SIDE	SIZE	L. SIDE
12x10	50	10x6	53
12x8	54	10x4	70
12x6	74	8x6	30
12x4	88	8x4	52
10x8	29	6x4	28

\*\*\*RESTRAINTS ONLY PLACED ON LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM TO 6.0'  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)				
SIZE	HORIZONTAL BENDS			
	90°	45°	22-1/2°	11-1/4°
12 UPPER	DON'T USE	42	20	10
12 LOWER	DON'T USE	10	5	2
10 UPPER	DON'T USE	36	17	8
10 LOWER	DON'T USE	8	4	2
8 UPPER	DON'T USE	30	14	7
8 LOWER	DON'T USE	7	3	2
6 UPPER	DON'T USE	23	11	5
6 LOWER	DON'T USE	5	3	1
4 UPPER	DON'T USE	16	8	4
4 LOWER	DON'T USE	4	2	1

TIERRA WEST, LLC  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NM 87109  
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www.tierrowestllc.com

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

MAVERIK  
TRACER WIRE DETAILS

DESIGN REVIEW COMMITTEE  
APPROVED  
MAY 14 2019  
DESIGN REVIEW COMMITTEE

CITY ENGINEER  
APPROVED  
AUG 27 2019  
CITY ENGINEER

CITY PROJECT NO.

745503

ZONE MAP NO.

G-16-Z

SHEET

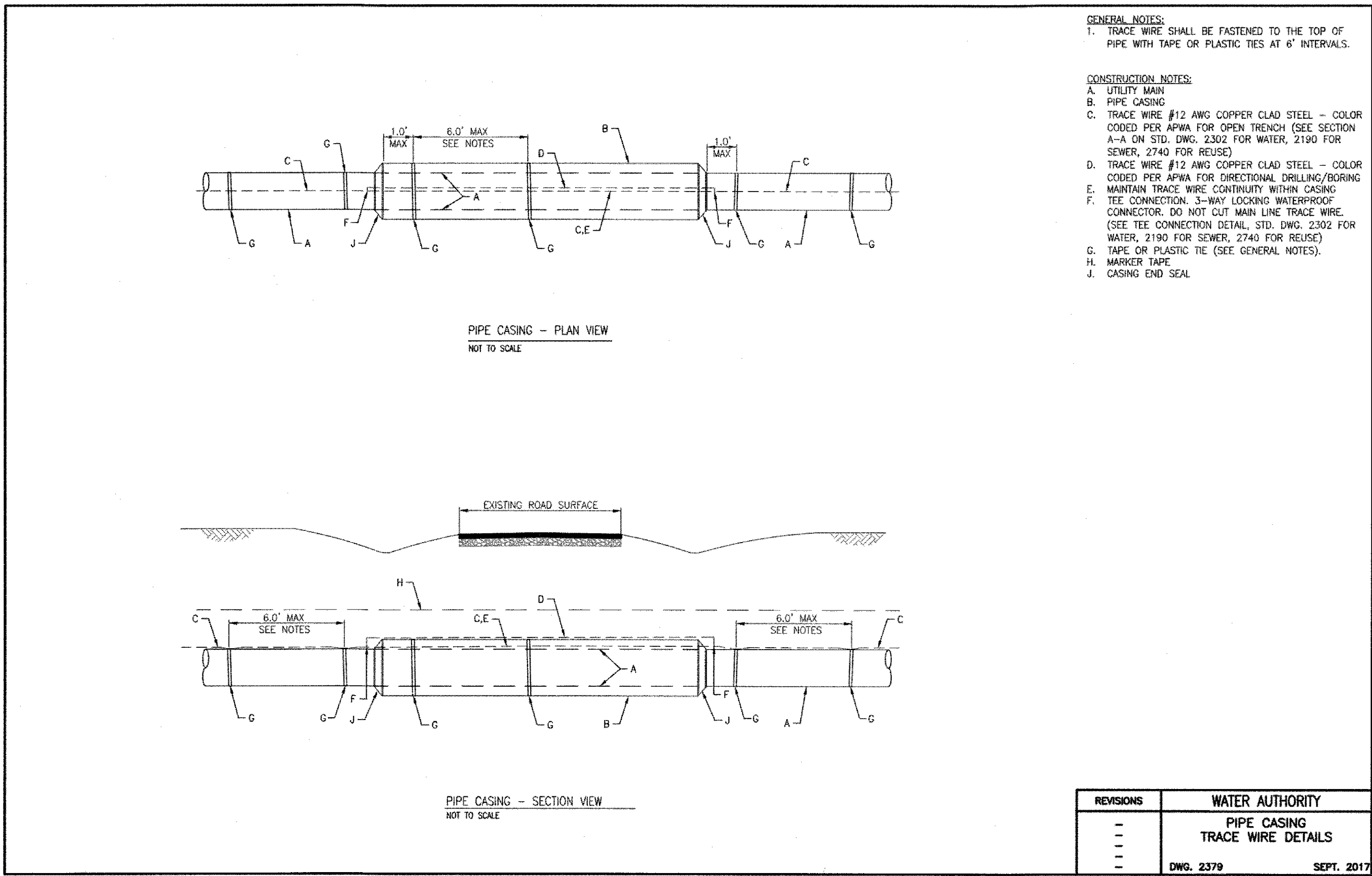
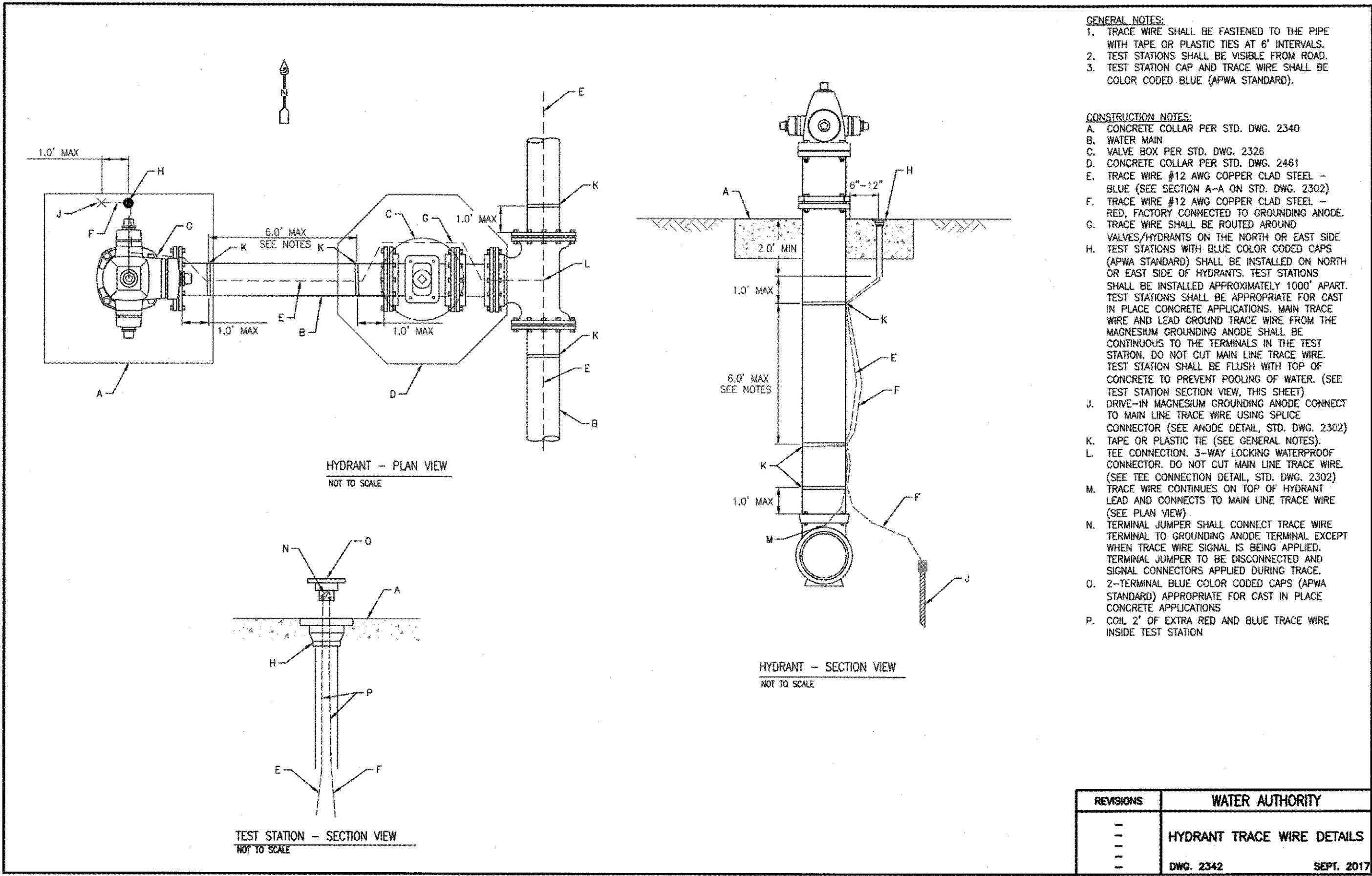
10

OF

11

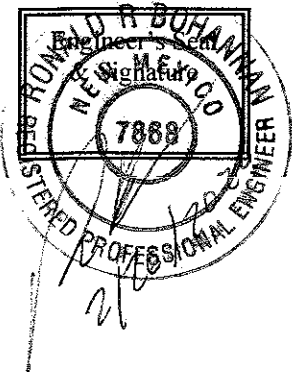
AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	TLC PLUMBING	DATE	2017	STA	1-40-12	CENTRAL STATION DATA	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY
WORK STATION	101	DATE	2017	DATE	2017	NM STATE PLANE COORDINATES	DATE								
INSPECTOR'S	W. J. BOHANNAN	DATE	2017	DATE	2017	(CENTRAL ZONE-N.A.D. 1983)	DATE								
FIELD	W. J. BOHANNAN	DATE	2017	DATE	2017	(CENTRAL ZONE-N.A.D. 1983)	DATE								
VERIFICATION	W. J. BOHANNAN	DATE	2017	DATE	2017	(CENTRAL ZONE-N.A.D. 1983)	DATE								
CORRECTED BY	W. J. BOHANNAN	DATE	2017	DATE	2017	(CENTRAL ZONE-N.A.D. 1983)	DATE								
RECORDED BY	W. J. BOHANNAN	DATE	2017	DATE	2017	(CENTRAL ZONE-N.A.D. 1983)	DATE								
NO.		DATE		DATE		(CENTRAL ZONE-N.A.D. 1983)	DATE								





CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Thomas D. Johnston, of Wayjohn Surveying Inc, NMPS number 14269



**TIERRA WEST, LLC**  
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ALBUQUERQUE, NM 87109  
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CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: <b>MAVERIK TRACER WIRE DETAILS</b>	
DESIGN REVIEW COMMITTEE <b>APPROVED</b> MAY 14 2019 REVIEW COMMITTEE	CITY ENGINEER APPROVAL <b>APPROVED</b> AUG 27 2019 CITY ENGINEER
LAST DESIGN UPDATE	MO./DAY/YR. MO./DAY/YR.
CITY PROJECT NO. 745503	ZONE MAP NO. G-16-Z
SHEET 11	OF 11

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR T.L. JOHNSON	DATE 2019	STA 1+40.12	CENTRAL STATION DATA	NO.	DATE		REMARKS DESIGN
INSPECTOR S. BOHANNON	DATE 2019	NM STATE PLANE COORDINATES	NM STATE PLANE COORDINATES	BY			
PERFORMANCE BY C. BOHANNON	DATE 2019	(CENTRAL ZONE - NAD. 1983)	(CENTRAL ZONE - NAD. 1983)				
VERIFICATION BY C. BOHANNON	DATE 2019	N=1,495,236.843	N=1,495,236.843				
DRAWING BY T. BOHANNON	DATE 2019	E=1,532,017.743	E=1,532,017.743				DESIGNED BY: RS
CHECKED BY T. BOHANNON	DATE 2019	G=0.999672575	G=0.999672575				DRAWN BY: BF
		Da=0712'30.45"	Da=0712'30.45"				DRAWING NAME: 2018039_TRACER WIRE DETAILS
		Elow=5117.289	Elow=5117.289				CHECKED BY: RS