

PUBLIC IMPROVEMENT PLANS  
FOR  
PETROGLYPH SHADOWS SUBDIVISION  
ALBUQUERQUE, NEW MEXICO

APRIL 2002

PREPARED FOR:  
PETROGLYPH SHADOWS, LLC  
c/o PHIL WARD  
6121 INDIAN SCHOOL RD. NE, SUITE #200  
ALBUQUERQUE, NM 87110

PREPARED BY:  
ISAACSON & ARFMAN, P.A.  
128 MONROE ST. NE  
ALBUQUERQUE, NM 87108

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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

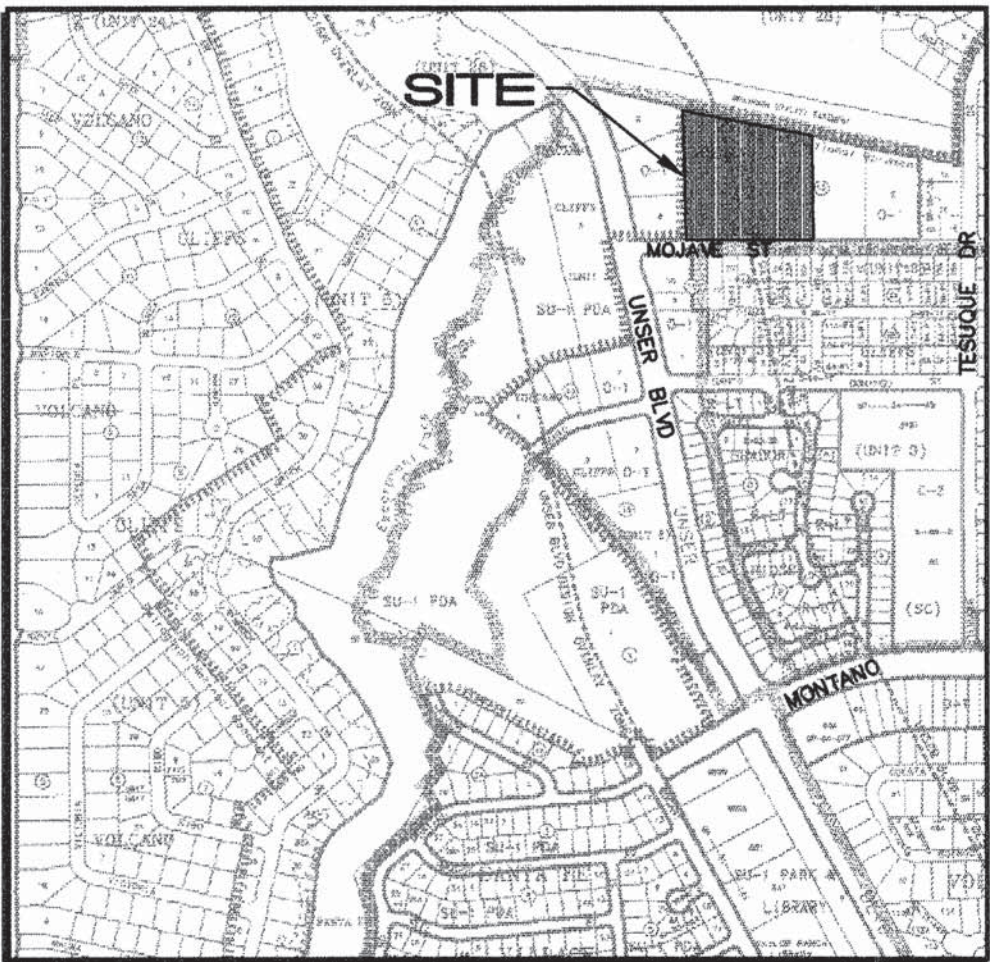
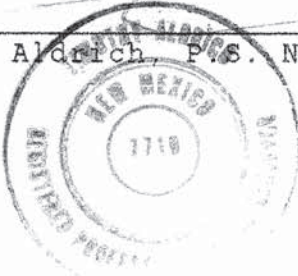
I, Fred C. Arfman, NMPE No. 7322 of the firm of Isaacson & Arfman, P.A. a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person 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 and survey information provided by Aldrich Land Surveying, Inc., NMPS No. 7719.



SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, 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." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, PLS, No. 7719

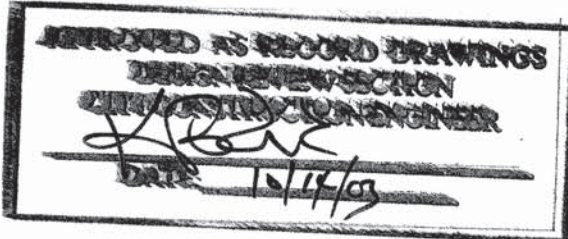


VICINITY MAP

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE NO. 6.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT THE LINE LOCATION SERVICE, NM ONE CALL SYSTEM @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 6.
- THE CONTRACTOR AGREES THAT HE 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; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- TRAFFIC CONTROL: FIVE (5) 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 (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATER-LINE AND/OR SEWERLINE COSTS.
- 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 RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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 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 SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 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.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY 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. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

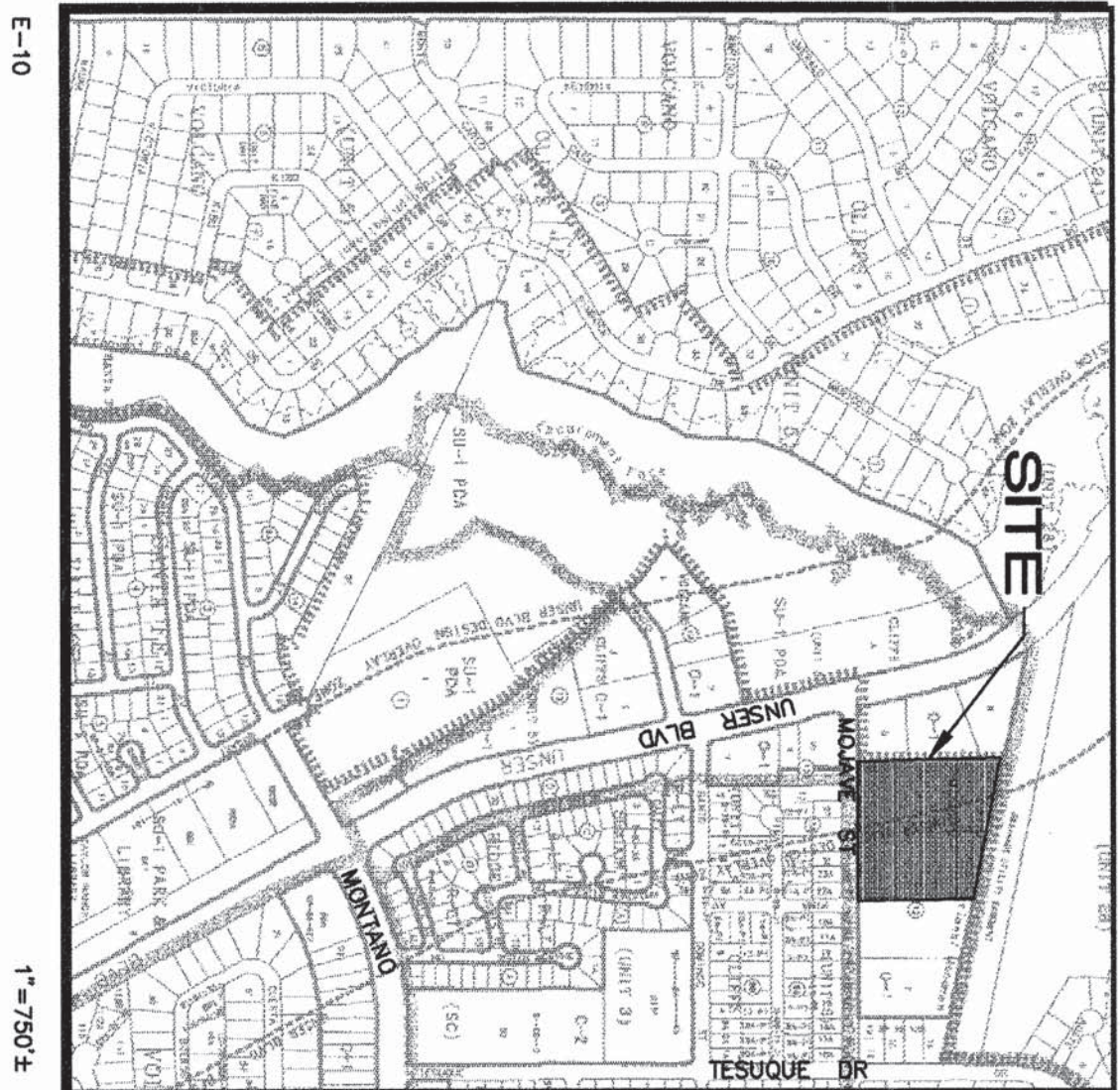


DRB NO. 1001147

ISAACSON & ARFMAN, P.A.  
Consulting Engineering Associates  
128 Monroe Street N.E.  
Albuquerque New Mexico  
183CVR.DWGnov 03/28/02

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		*****	
		DRC Chairman		[Signature]		4-24-02		APPROVED FOR CONSTRUCTION	
		Transportation		[Signature]		4/9/02			
		Water/Wastewater		[Signature]		4/09/02			
		Hydrology		[Signature]		4-8-02			
		AMAFCA		[Signature]		4-8-02			
Constr. Mngmt.		[Signature]		[Signature]		4-24-2002		City Engineer [Signature] Date 7/22/02	
Constr. Coord.		[Signature]		[Signature]		4-24-2002		City Project No. 684381	
								Sheet 1 Of 16	





VICINITY MAP

SUBDIVISION DATA / NOTES

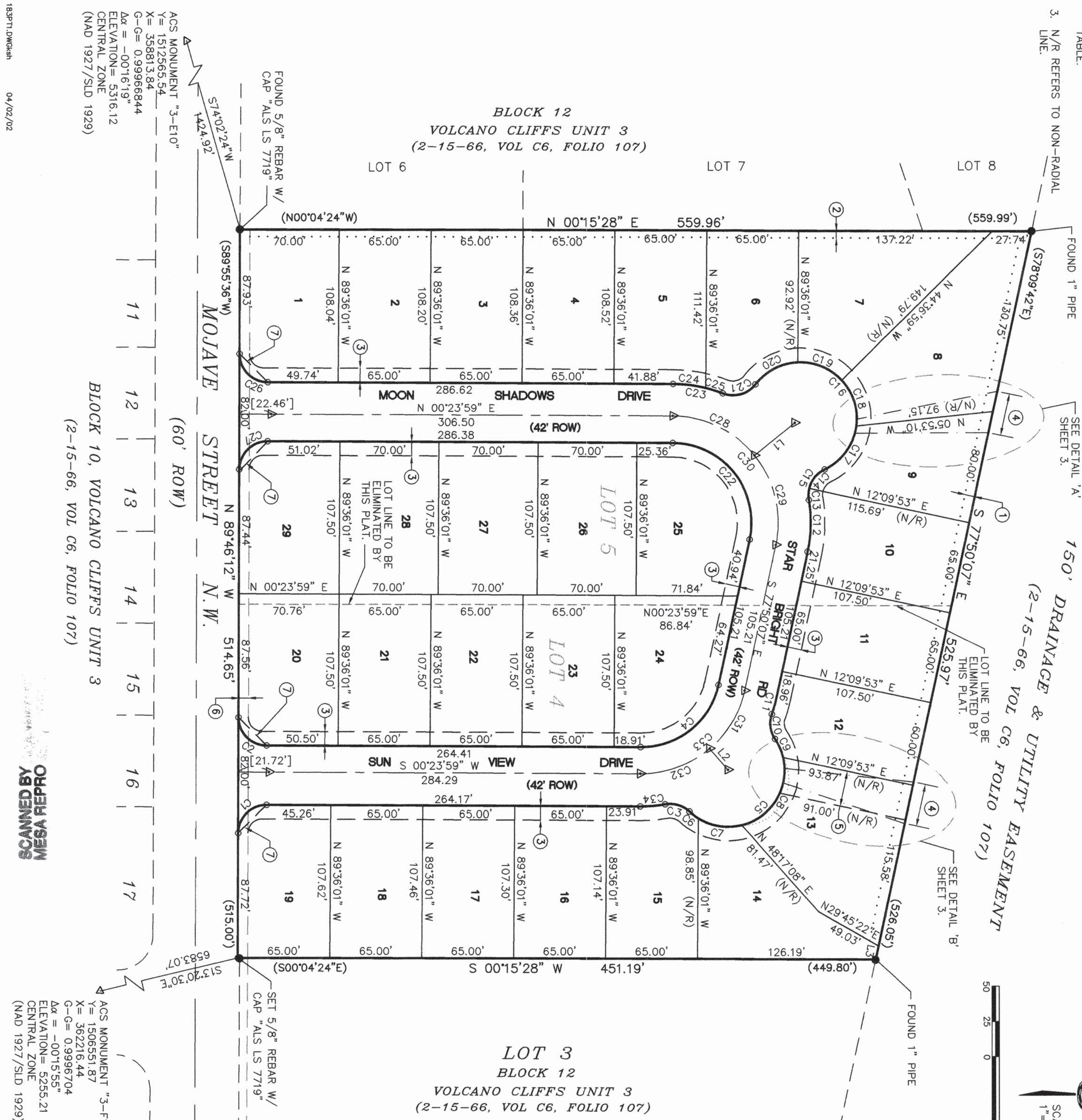
1. Total Number of Existing Tracts: 2
2. Total Number of Lots created: 29
3. Total Number of Tracts created: 0
4. Gross Subdivision Acreage: 5.9733 Ac.
5. Total Mileage of Full Width Streets Created: 0.1764
6. Bearings are New Mexico State Plane Grid Bearings (Central Zone).
7. Distances are ground distances.
8. Bearings and distances in parenthesis are record.
9. Basis of boundary are the following plats (and documents) of record entitled:  
"VOLCANO CLIFFS SUBDIVISION, UNIT 3", (02-15-66, 06-107).
10. Field Survey performed in October, 2001.
11. Title Report: Albuquerque Title Company File No. 192435TD (Effective Date: 03-27-01)
12. This property is apparently affected by reservations, restrictions and agreements contained within assessments, documents and memorandums as listed within the above mentioned Title Report.
13. City Standard Utility Note II: "City of Albuquerque Water and Sanitary Sewer Service to subject property must be verified and coordinated with the Public Works Department, City of Albuquerque."
14. Centerline (in lieu of R/W) monumentation to be installed at all centerline PC's, PT's, angle points and street intersections prior to acceptance of subdivision street improvements and will consist of a standard four-inch (4") aluminum alloy cap stamped "City of Albuquerque", "Centerline Monumentation", "Survey Marker", "Do Not Disturb", "PIS #7719".

**ALDRICH LAND SURVEYING**  
P.O. BOX 30701, ALBUQ., N.M. 87190  
505-884-1990

183PT1.DWG.dgn 04/02/02

GENERAL NOTES:

1. DISTANCES IN BRACKETS REFER TO CENTERLINE MONUMENTS.
2. SEE SHEET 3 FOR LOT AREA TABLE.
3. N/R REFERS TO NON-RADIAL LINE.



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**PLAT**  
FOR  
**PETROGLYPH SHADOWS SUBDIVISION**

BENGA REPLAT OF  
LOTS 4 & 5, BLOCK 12, UNIT 3  
VOLCANO CLIFFS SUBDIVISION  
WITHIN SECTION 27, T. 1 N, R. 2 E, NM/PM  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO  
APRIL 2002

**APPROVALS**  
DRB PROJECT NO. 100147  
APPLICATION NO. 02DRB-0416

PUBLIC SERVICE CO. OF NM--GAS SERVICES DIVISION AND ELECTRIC SERVICES DIVISION	DATE
QUEST CORPORATION	DATE
COMCAST CABLE	DATE
CITY SURVEYOR, ENGR. DIV., P.W.D.	DATE
TRAFFIC ENGINEERING, TRANS. DEV. DIV., P.W.D.	DATE
PARKS AND RECREATION	DATE
UTILITY DEVELOPMENT DIV., P.W.D.	DATE
REAL PROPERTY DIVISION, D.F.M.	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEER, PUBLIC WORKS DEPT.	DATE

APPROVAL AND CONDITIONAL ACCEPTANCE AS SPECIFIED BY THE ALBUQUERQUE SUBDIVISION ORDINANCE, CHAPTER 14, ARTICLE 14 OF THE REVISED ORDINANCES OF ALBUQUERQUE, N.M., 1994.

CITY PLANNER, ALBUQUERQUE PLANNING DIVISION	DATE
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**SURVEYOR'S CERTIFICATION**

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and the description hereon were prepared by me or under my supervision, shows all easements as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, Chapter 14, Article 14, and further meets the Minimum Standards for Land Surveying in the State of New Mexico (Effective November 1, 1989 and revisions effective December 25, 1991 and February 2, 1994 and October 2000), and is true and correct to the best of my knowledge and belief."

Timothy Aldrich, P.S. No. 7719 Date

**PLAT**  
FOR  
**PETROGLYPH SHADOWS SUBDIVISION**

BENGA REPLAT OF  
LOTS 4 & 5, BLOCK 12, UNIT 3  
VOLCANO CLIFFS SUBDIVISION  
WITHIN SECTION 27, T. 1 N, R. 2 E, NM/PM  
CITY OF ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO  
APRIL 2002

**EASEMENT NOTES:**

1. EXISTING 7' UTILITY EASEMENT (02-15-66, 06-107) TO BE VACATED BY THIS PLAT. VACATION #
2. EXISTING 5' UTILITY EASEMENT (02-15-66, 06-107) TO BE VACATED BY THIS PLAT. VACATION # 01410-00000-01305.
3. 10' PUBLIC UTILITY EASEMENT IS GRANTED BY THIS PLAT.
4. VIEW EASEMENT IS GRANTED BY THIS PLAT FOR THE BENEFIT OF LOTS 1-29. NO LANDSCAPING WHICH IS TALLER THAN THREE FEET (3') SHALL BE ALLOWED WITHIN THE VIEW EASEMENT AREA. THE VIEW EASEMENT SHALL BE MAINTAINED BY THE OWNER OF THE LOT IN WHICH THE EASEMENT IS LOCATED.
5. 25' PUBLIC SANITARY SEWER, PUBLIC DRAINAGE, AND PRIVATE POSTSTRAN ACCESS EASEMENT IS GRANTED BY THIS PLAT FOR THE BENEFIT OF LOTS 1-29. THE EASEMENT SHALL BE MAINTAINED BY THE OWNER OF LOT 13.
6. EXISTING 7' UTILITY EASEMENT (02-15-66, 06-107).
7. SIGNAGE EASEMENT IS GRANTED BY THIS PLAT FOR THE BENEFIT OF LOTS IN WHICH THE EASEMENT IS LOCATED.

LINE TABLE			
LINE	BEARING	DISTANCE	
L1	N 38°56'31" W	36.64	
L2	S 49°41'11" W	20.00	
L3	S 77°50'07" E	9.64	

**CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	20.00	31.48	20.08	28.33	S 44°41'07" E	90°10'11"
C2	20.00	31.48	19.94	28.24	N 45°18'53" E	89°49'49"
C3	20.00	18.54	10.00	17.88	S 16°35'10" W	53°06'54"
C4	56.00	76.47	45.54	70.66	N 38°43'04" W	78°14'06"
C5	40.00	116.53	348.75	79.48	N 40°18'49" W	166°54'51"
C6	40.00	7.88	3.95	7.87	S 37°29'57" E	11°17'19"
C7	40.00	31.98	16.90	31.14	N 08°57'00" E	45°48'36"
C8	40.00	61.96	39.14	55.95	N 58°19'54" W	88°45'13"
C9	40.00	14.70	7.44	14.62	S 66°45'37" W	21°03'44"
C10	20.00	18.54	10.00	17.88	N 82°47'13" E	53°06'54"
C11	98.00	12.28	6.15	12.27	N 74°14'44" W	07°10'47"
C12	98.00	36.74	18.59	36.53	N 89°34'36" W	21°28'57"
C13	20.00	8.04	4.07	7.98	S 87°48'16" E	23°01'37"
C14	20.00	17.77	9.52	17.19	S 50°50'16" E	50°54'23"
C15	20.00	25.81	15.05	24.05	S 62°21'05" E	73°58'00"
C16	40.00	144.39	165.88	171.77	S 51°03'29" W	207°06'53"
C17	40.00	38.49	21.52	37.90	N 53°39'54" W	56°33'38"
C18	40.00	34.88	18.94	34.24	S 72°42'46" W	50°41'04"
C19	40.00	34.88	18.64	33.79	S 22°32'12" W	49°54'08"
C20	40.00	25.81	15.05	24.05	N 15°31'58" W	73°58'00"
C21	20.00	34.84	18.61	33.75	S 27°32'54" E	49°54'08"
C22	56.00	99.46	68.86	86.90	S 51°16'56" W	101°45'54"
C23	98.00	35.98	18.19	35.78	S 10°55'00" W	21°02'04"
C24	98.00	23.34	11.72	23.28	S 17°44'19" W	13°38'38"
C25	98.00	12.64	6.33	12.63	S 17°44'19" W	13°38'38"
C26	20.00	31.48	19.94	28.24	N 45°18'53" E	89°49'49"
C27	20.00	31.48	20.08	28.33	S 44°41'07" E	90°10'11"
C28	75.00	66.31	35.50	64.17	S 25°43'44" W	50°39'30"
C29	75.00	133.21	92.23	116.38	S 51°16'56" W	101°45'54"
C30	75.00	49.12	25.48	48.24	N 59°04'28" W	37°31'10"
C31	75.00	53.29	27.83	52.18	N 19°37'25" W	40°42'47"
C32	75.00	102.41	60.99	94.64	N 38°43'04" W	78°14'06"
C34	98.00	17.74	8.69	17.71	N 04°47'09" W	10°22'16"



PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE CONVEYANCE AND MAINTENANCE OF

- EASEMENTS FOR ELECTRIC TRANSFORMERS/SWITCHGEARS, AS INSTALLED, SHALL EXTEND TEN FEET (10') IN FRONT OF TRANSFORMER/SWITCHGEAR DOORS AND FIVE FEET (5') ON EACH SIDE.

PNM ELECTRIC AND GAS SERVICES

BY: \_\_\_\_\_

STATE OF NEW MEXICO  
COUNTY OF BERNALILLO  
SS

DAY OF \_\_\_\_\_, 20\_\_\_\_, B1  
NEW MEXICO, A NEW MEXICO CORPORATION, ON BEHALF OF SAID  
CORPORATION.

NOTARY PUBLIC

MY COMMISSION EXPIRES: \_\_\_\_\_

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### EASEMENT CURVE TABLE



**LOT AREA TABLE**

## SUBDIVISION

APRIL 2002

SCALE: 1"=30'





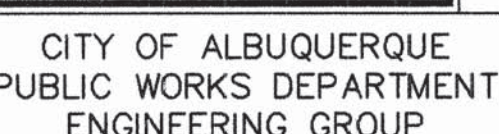
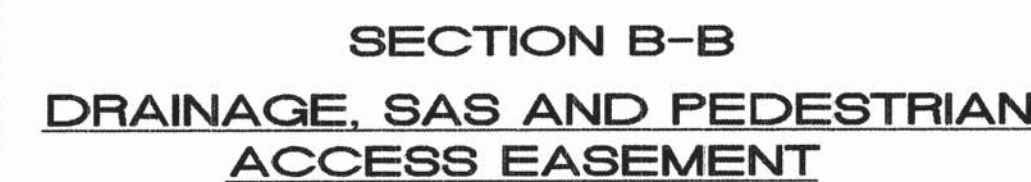


1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO THE PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING EROSION CONTROL BERMS (AS DETAILED AT RIGHT) AS SHOWN ON THE PLAN AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO BEGINNING STRUCTURE. AN EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITH PUBLIC RIGHT-OF-WAY.
3. SEE GRADING NOTES.



MESA REFPHO

1. ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OFFSITE.
2. ALL SUBGRADE AND FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557.
3. EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIALS ENCOUNTERED.
4. CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN ON PLANS WITHIN A TOLERANCE OF 0.3± FEET.
5. SCARIFY AND COMPACT SUBGRADE FOR FILLS. PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. MOISTEN AS NECESSARY TO PROVIDE OPTIMUM MOISTURE (±2%) CONTENT.
6. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCE, COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED.
7. MAXIMUM SLOPES SHALL BE 3:1 MINIMUM SLOPES SHALL BE 1%.
8. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
9. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY 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 INVESTIGATIONS IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY FOR LIABILITY THEREOF. 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.
10. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT ERODED AND WASHED DOWN THE STREET.
11. OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. ALLOW TESTING SERVICE TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHALL COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT NO ADDITIONAL EXPENSE.
12. OWNER HAS ESTABLISHED SUBDIVISION BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING INCLUDING TRACT CORNERS. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS.



Design Review Committee

**APPROVED**

APR 24 2002

DESIGN  
REVIEW COMMITTEE

City Engineer Approval

**APPROVED**

JUL 22 2000

**CITY ENGINEER**

Sheet **5** Of **16**

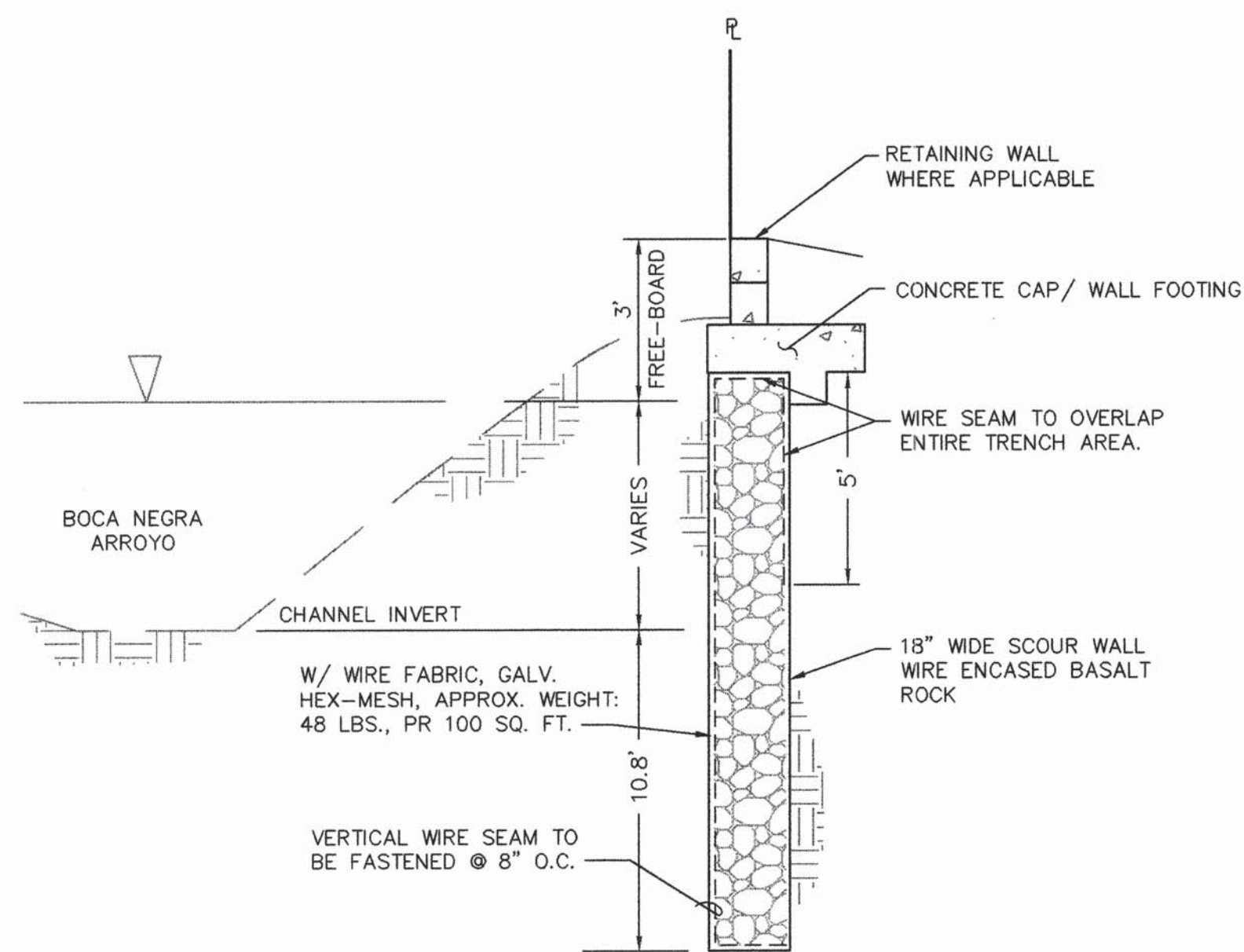
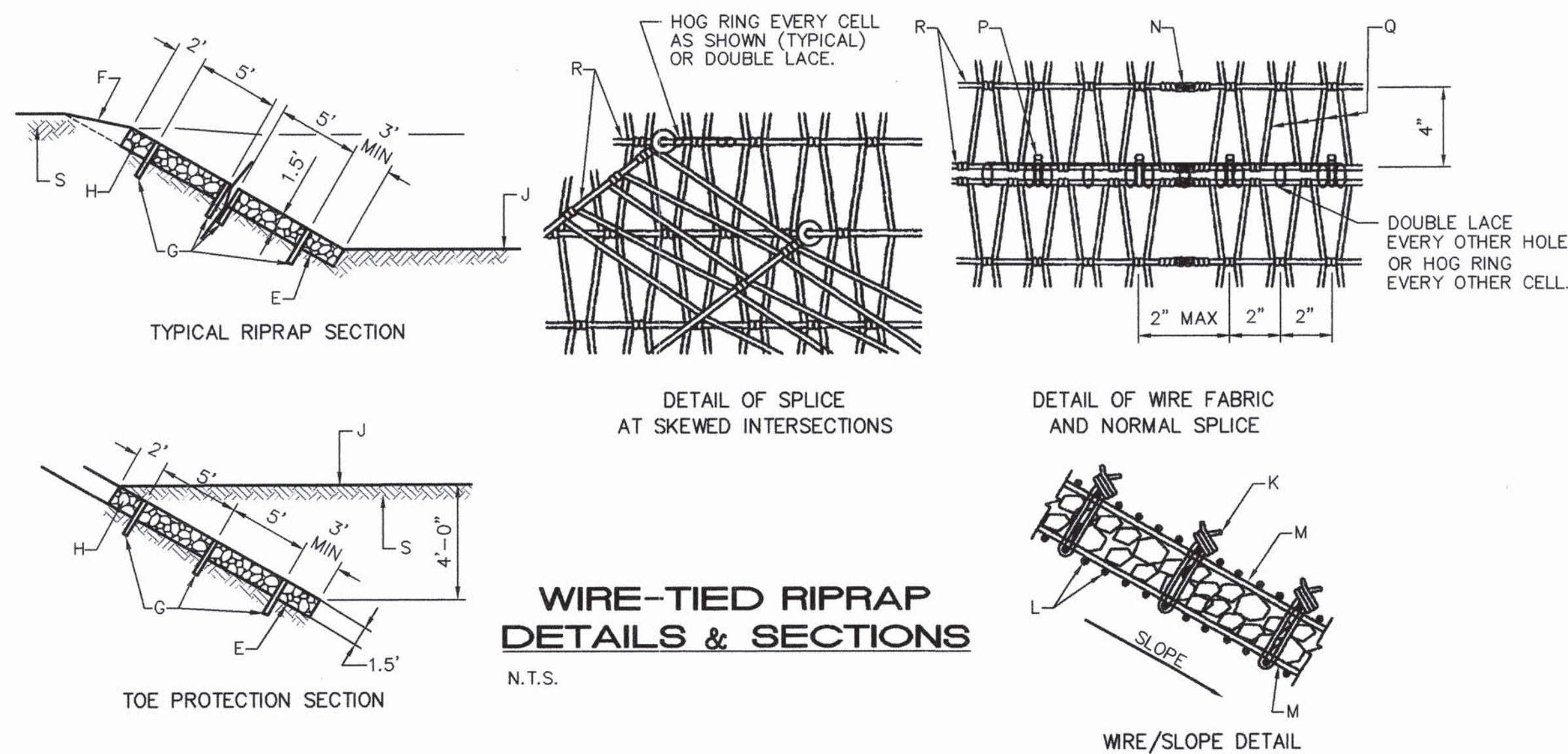
AS-BUILT INFORMATION	
CONTRACTOR	SALIS
WORK ORDER NO.	
DESIGNED BY	A15
INSPECTED BY	TS & A
DATE	9/2
FIELD ACTION BY	A16
DATE	9/2
REWORK BY	
REWORK DATE	
REWORK BY	A15
DATE	9/2
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

BENCH MARKS

ALBUQUERQUE CONTROL STATION "13-E10"  
 AN "X" CUT CHISELED ON A BONNET BOLT OF A FIRE HYDRANT  
 IN THE NW QUADRANT OF ATRISCO RD & SANTO DOMINGO ST NW  
 ELEV.=5204.85 NGVD 1929, IN FEET

[illegible][illegible]





**SCOUR WALL W/  
WIRE-TIED RIPRAP  
DETAIL**  
N.T.S.

**CONSTRUCTION NOTES:**

- E. FILTER MATERIAL, 6" MIN. DEPTH AS SHOWN ON PLANS.  
F. FILL & COMPACT AT 90% ASTM 1557 AFTER PLACEMENT OF RIPRAP.  
G. STEEL STAKES MAY BE RAILROAD RAILS NOT LESS THAN 30 LBS. PER FT., 4" O.D. STANDARD STRENGTH GALV. ST. PIPE OR 4x4x3/8 STEEL ANGLES. STEEL STAKES SHALL BE 5' LONG AND 8' O.C. AND SHALL BE RECESSED TO A MAX. OF 3" BELOW TOP OF RIPRAP.  
H. WIRE ENCLOSED RIPRAP.  
J. FINISHED GROUND LINE.  
K. No. 9 GAGE GALV. WIRE TIES APPROX. 2' O.C. LONGITUDINALLY & TRANSVERSELY.  
L. MAIN WIRES TO BE PLACED PERPENDICULAR TO SLOPE.  
M. WIRE FABRIC.  
N. TRANSVERSE SPLICE.  
P. LONGITUDINAL SPLICE, No. 9 GALV. WIRE TIES (TWO WRAPS ALTERNATE SPACES).  
Q. CROSS WIRES: 12-1/2 GAGE WIRES SPACED AT 2" WITH NOT LESS THAN TWO TURNS AROUND MAIN WIRES.  
R. MAIN WIRES: TWO No. 12-1/2 GAGE STRANDED WIRES SPACED AT 4".  
S. ALL SUBGRADE, BACKFILL & EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.

**GENERAL NOTES:**

1. WIRE FABRIC IS TO BE GALV. HEX-MESH, APPROX. WEIGHT: 48 LBS. PR 100 SQ. FT.  
2. STEEL STAKES ARE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK & NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.  
3. IF LENGTH OF SLOPE IS 15' OR LESS ONLY ONE ROW OF STEEL STAKES 2' FROM THE TOP EDGE OF THE RIPRAP WILL BE REQUIRED UNLESS OTHERWISE NOTED ON PLANS.  
4. CONTRACTOR SHALL DOUBLE LACE EVERY OTHER HOLE (OR HOG RING EVERY OTHER CELL) HORIZONTALLY AND VERTICALLY WHEN TYING EXISTING WIRE-TIED RIPRAP TO PROPOSED WIRE-TIED RIPRAP.  
5. HEXAGONAL MESH, MEETING SAME SPECIFICATION FOR V MESH MAY BE APPROVED SUBJECT TO SUBMITTAL TO PROJECT MANAGER.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		CHECKED BY		DATE	
CONTRACTOR	SAIUS	WORK STAKED BY	SAIUS	FIELD NOTES	10/01	ALDRICH LAND SURVEYING	10/01	REMARKS	BY	DESIGNED BY	ANW	DRAWN BY	ANW	CHECKED BY	FCA
DATE	11/02	DATE	11/02	DATE	11/02	DATE	11/02	DATE	2/02	DATE	2/02	DATE	2/02	DATE	2/02
DATE	11/02	DATE	11/02	DATE	11/02	DATE	11/02	DATE	2/02	DATE	2/02	DATE	2/02	DATE	2/02
DATE	11/02	DATE	11/02	DATE	11/02	DATE	11/02	DATE	2/02	DATE	2/02	DATE	2/02	DATE	2/02

**ISAACSON & ARFMAN, P.A.**  
Consulting Engineering Associates  
128 Monroe Street N.E.  
Albuquerque New Mexico  
183GRD.DWGonw 3/12/02

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: **PETROGLYPH SHADOWS SUBDIVISION  
WIRE-TIED RIPRAP DETAILS**

Design Review Committee: **APPROVED** APR 24 2002  
City Engineer Approval: **APPROVED** 11/22/02

City Project No. **684381** Zone Map No. **E-10** Sheet **5A** Of **16**



BLOCK 12  
VOLCANO CLIFFS UNIT 3  
(2-15-66, VOL C6, FOLIO 107)

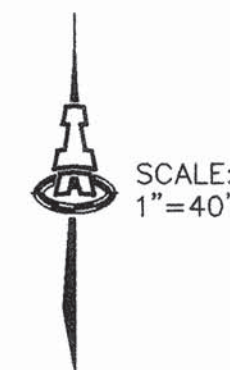
LOT 10

11 | 12 | 13 |  
| BLOCK 10 |  
| VOLCANO CLIFFS UNIT 3 |  
(2-15-66, VOL C6, FOLIO 107)

MOJAVE ST. NW  
(60' R/W)

PIMA DR.

LOT 3  
BLOCK 12  
VOLCANO CLIFFS UNIT 3  
(2-15-66, VOL C6, FOLIO 107)

 $LO'$  $LO$ 

NOTE:

SEE SHEET 7 FOR STREET & PAVEMENT SECTIONS.

### LEGEND

LEGEND	
	EXISTING STREET IMPROVEMENTS
	PROPOSED STREET IMPROVEMENTS
	DEFERRED SIDEWALKS
	WHEEL CHAIR RAMP
<b>20</b>	LOT NO.
	PROPOSED STREET LIGHT
	STORM DRAIN CATCH BASIN

20

5

 **ISAACSON & ARFMAN, P.A.**  
Consulting Engineering Associates  
128 Monroe Street N.E.  
Albuquerque New Mexico  
183PMSTR.DWGnav 03/11/02

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
PAVING & STORM DRAIN MASTER PLAN

Design Review Committee  
APPROVED  
APR 24 2002  
DESIGN REVIEW COMMITTEE

City Engineer Approval

	Last Design Update
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Mo./Day/Yr.	Mo./Day/Yr.

City Project No.

Zone Map No.	
--------------	--

Sheet 6 Of

AS-BUILT INFORMATION	
CONTRACTOR	SALS
ISSUED BY	AJS
INSTATED BY	Amersbach
DATE	11/02
ACCEPTANCE BY	T. Arman
DATE	9/2
FIELD NO.	
DRAWINGS	
CORRECTED BY	AJS
DATE	10/2
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

SURVEY INFORMATION		BENCH MARKS
	FIELD NOTES	
1.	ALDRICH LAND SURVEYING	ALBUQUERQUE CONTROL STATION "13-E10" AN "x" CUT CHISELED ON A BONNET BOLT OF A FIRE HYDRANT IN THE NW QUADRANT OF ATRISCO RD. & SANTO DOMINGO ST NW  ELEV.=5204.85 NGVD 1929. IN FEET

NO.	DATE	REMARKS	BY
<i>REVISED</i>			
<i>DESIGN</i>			
	DESIGNED BY	ANW	DATE 2/02
	DRAWN BY	ANW	DATE 2/02
	CHECKED BY	ECA	DATE 2/02

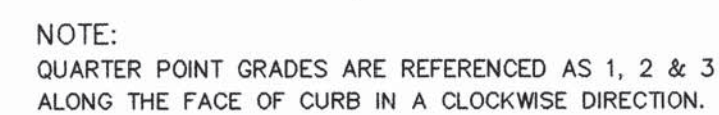




SOIL NOT HAVING A MINIMUM R-VALUE  
OF 50 SHALL BE REMOVED TO A DEPTH  
OF 2 FEET AND REPLACED BY  
CONTRACTOR WITH SUITABLE MATERIAL  
(R-VALUE  $\geq 50$ )

## RESIDENTIAL PAVEMENT SECTION

SCALE: 1" = 1'-0" (PER COA STD. DWG. No. 2405)



**QUARTER POINT DETAIL**  
NTS



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE:	PETROGLYPH SHADOWS SUBDIVISION PAVING SECTIONS & DETAILS
--------	---

<p>Design Review Committee</p> <p><b>APPROVED</b></p> <p>APR 24 2002</p> <p>DESIGN</p>	<p>City Engineer Approval</p> <p><b>APPROVED</b></p> <p>APR 27 2002</p> <p>CITY ENGINEER</p>	<p>last Design Update</p>
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City Project No. **684381**

Zone Map No.  
**E-10**

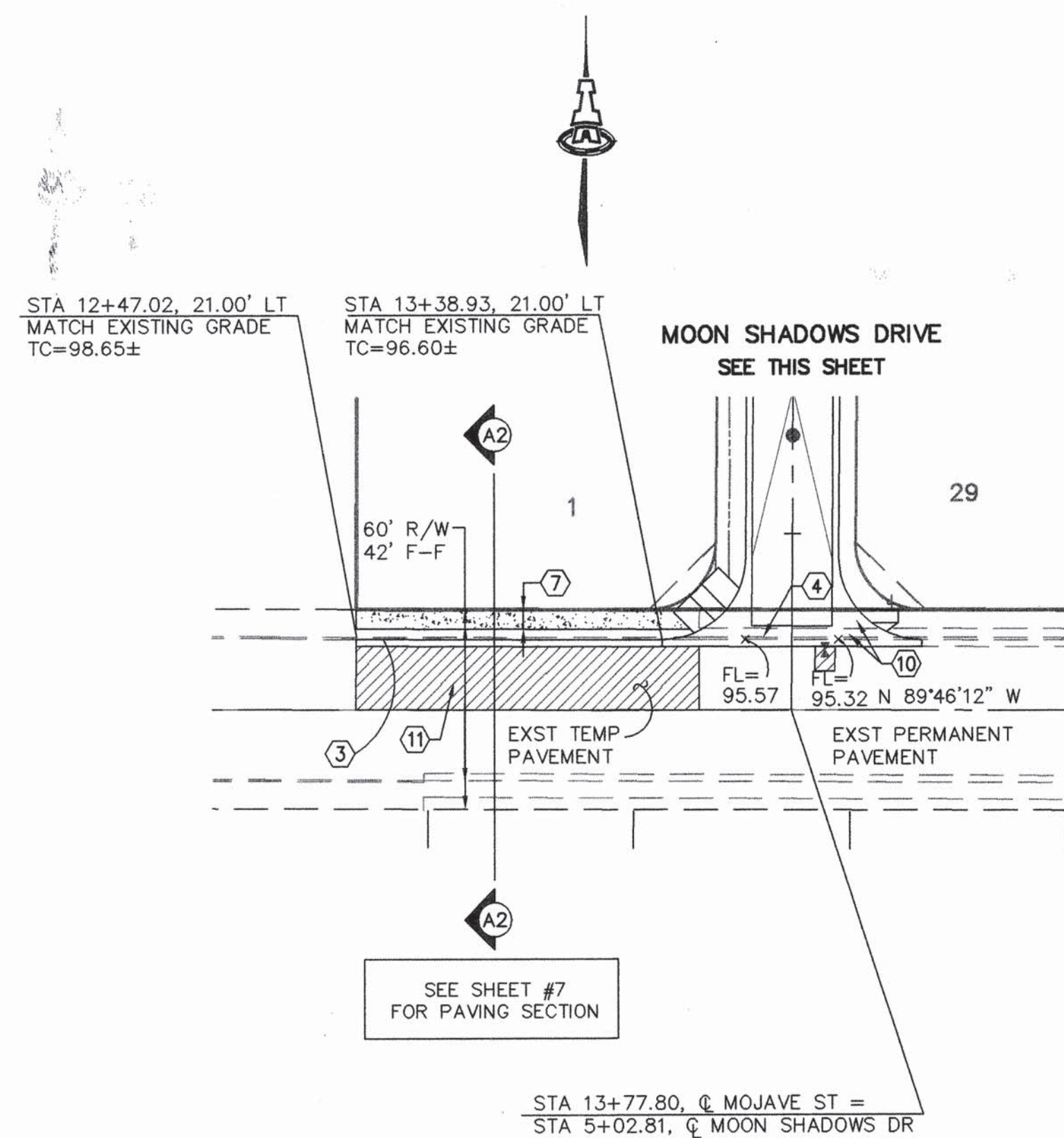
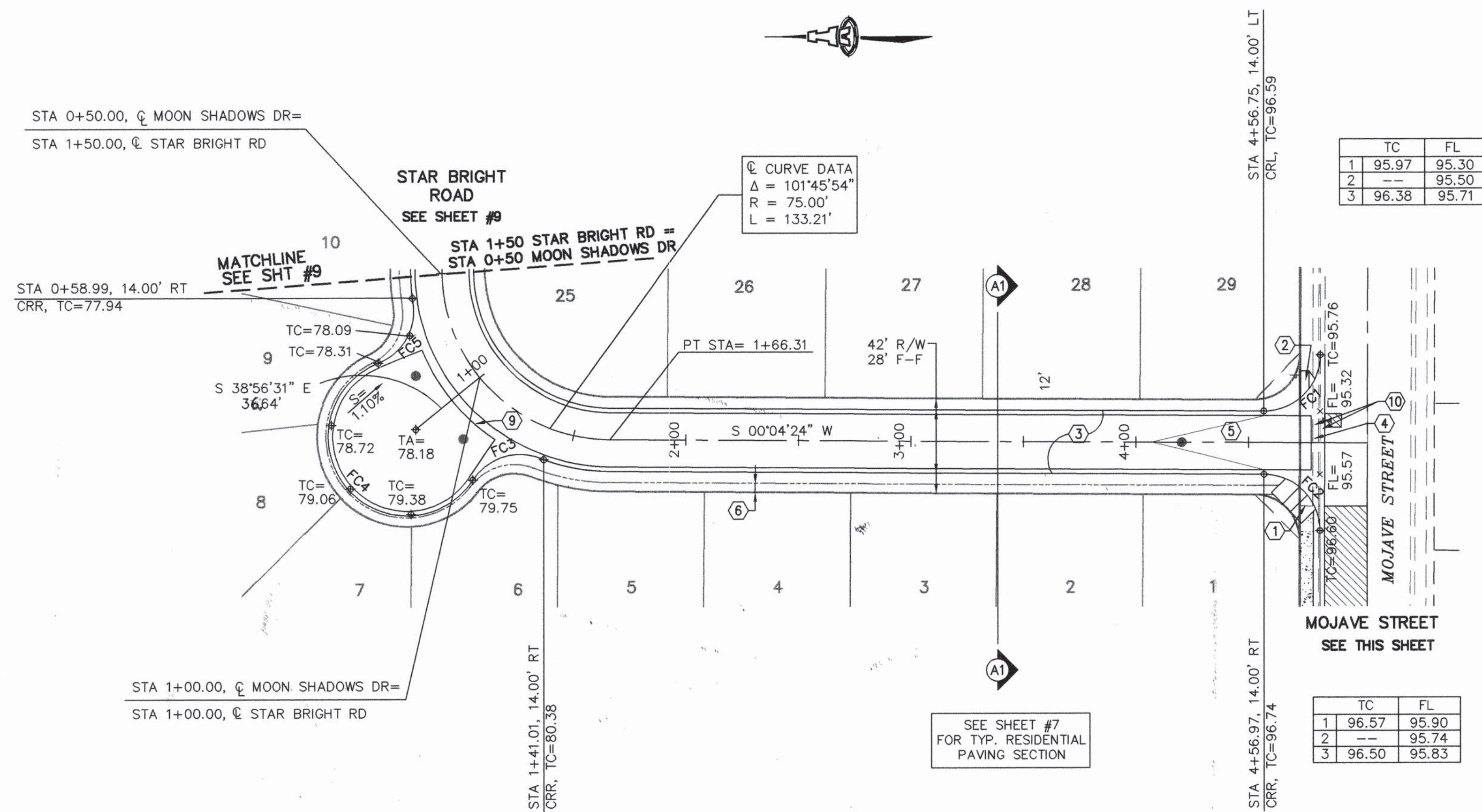
Sheet **7** Of **16**

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR	
		1.	ALDRICH LAND SURVEYING	10/01	ALBUQUERQUE CONTROL STATION "13-E10" AN "X" CUT CHISELED ON A BONNET BOLT OF A FIRE HYDRANT IN THE NW QUADRANT OF ATRISCO RD & SANTO DOMINGO ST NW	WORK DONE BY	SAIUS
						SUBSIDIES	SAIUS
						ACCEPTANCE BY	J. A.
						REVISION BY	SAIUS
						DRAWINGS	SAIUS
						CORRECTED BY	SAIUS
					ELEV=5204.85 NGVD 1929, IN FEET	MICRO-FILM INFORMATION	
						RECORDED BY	DATE
						NO.	

</



SCANNED BY  
MESA REPRO



SCALES:  
1"=40' HOR.  
1"=10' VERT.



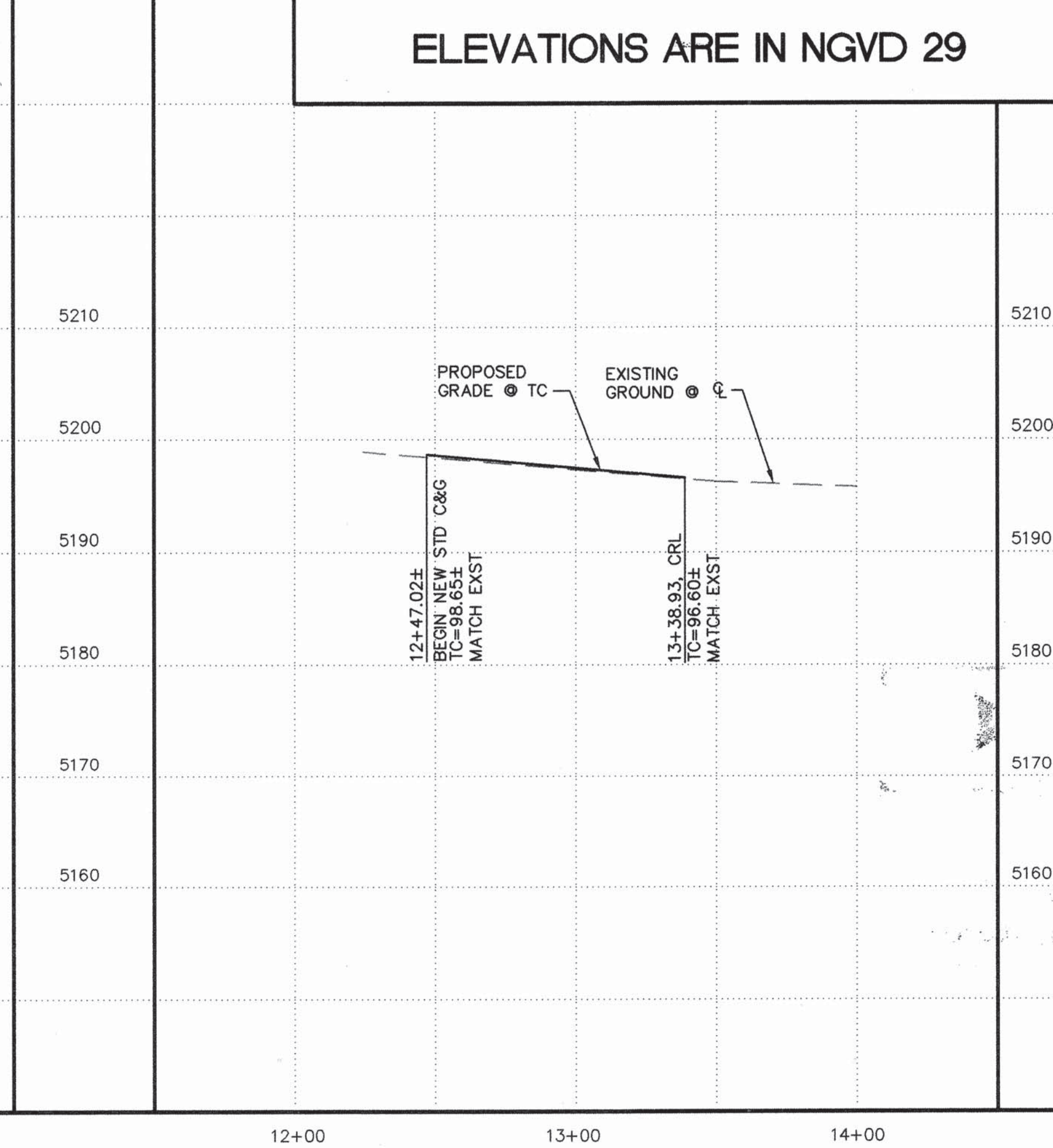
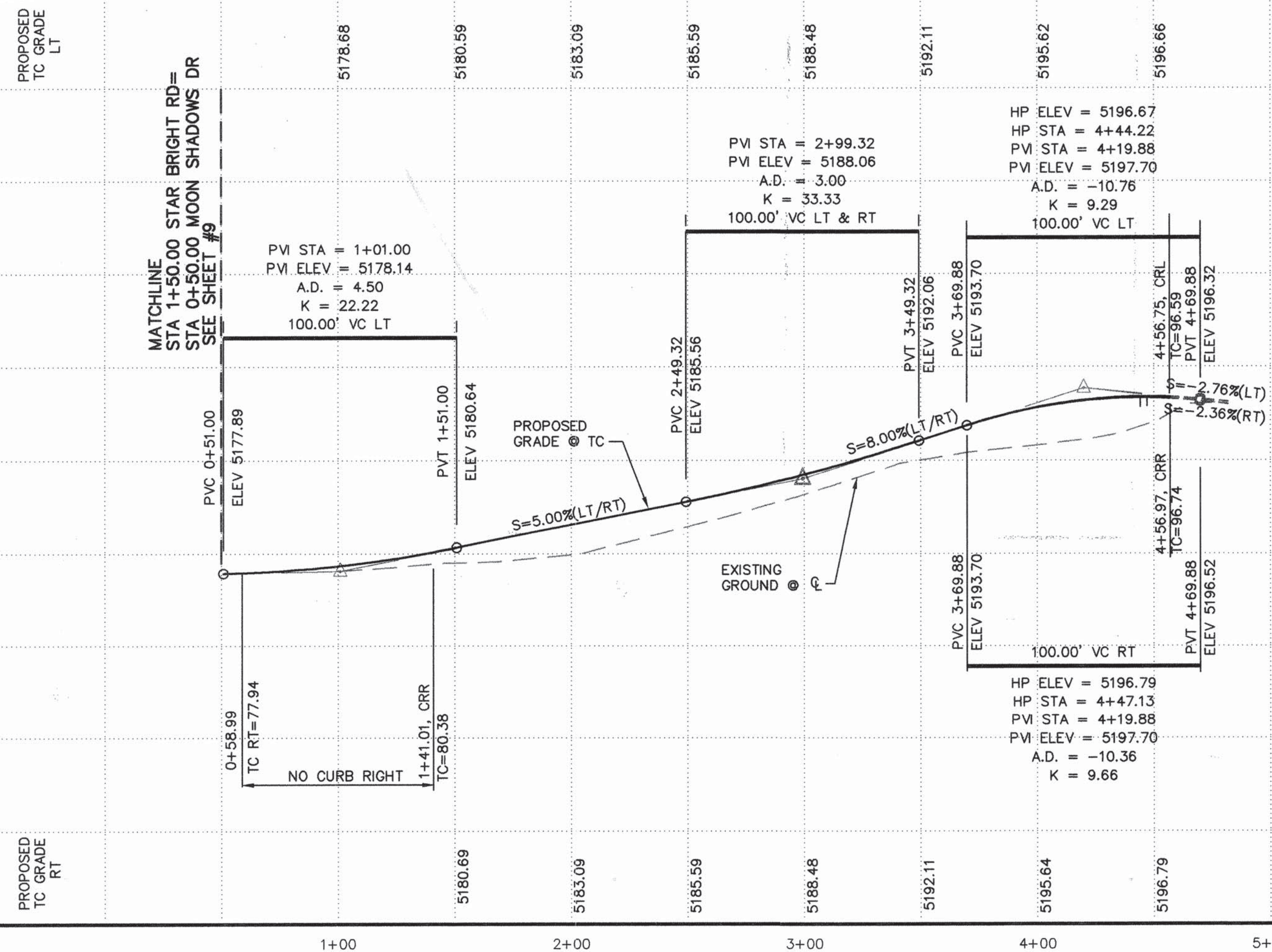
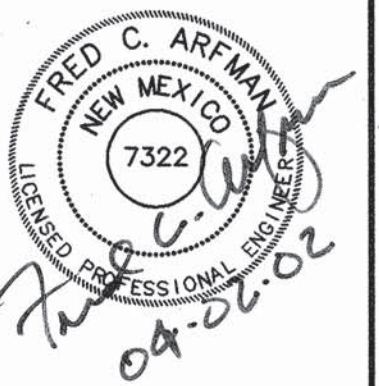
1. CONSTRUCT HANDICAP RAMP PER COA STD DWG #2441, CASE II.
2. CONSTRUCT UNIDIRECTIONAL HANDICAP RAMP PER COA STD DWG #2426.
3. CONSTRUCT STANDARD CURB & GUTTER PER COA STD DWG #2415.
4. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 1-1/2" INVERT PER COA STD DWG #2420.
5. CROWN TO NO CROWN TRANSITION 50' MIN. LENGTH PER COA STD DWG #2401.
6. DEFERRED 4' WIDE SIDEWALK.
7. CONSTRUCT 6' WIDE PCC SIDEWALK.
8. CONSTRUCT 6' WIDE PEDESTRIAN TRAIL PER SECTION ON SHEET 7.
9. CONSTRUCT PCC VALLEY GUTTER 4' WIDE, 1-1/2" INVERT PER COA STD DWG #2421.
10. REMOVE & DISPOSE 67 LF STD CURB & GUTTER, 103 LF ASPHALT CURB, AND 38 SY PCC SIDEWALK.
11. STA 12+47.0-13+50---REMOVE & DISPOSE EXISTING TEMPORARY PAVEMENT & ASPHALT CURB AND CONSTRUCT STANDARD CURB & GUTTER AND 217 SY NEW PAVING PER SECTION ON SHEET 7.

FACE OF CURB CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
FC1	39.34'	25.00	90°09'11"
FC2	39.20'	25.00	89°50'12"
FC3	33.76'	25.00	77°12'17"
FC4	131.34'	35.00	215°00'06"
FC5	33.76'	25.00	77°22'17"

AS-BUILT INFORMATION	
CONTRACTOR	SALIS
WORK	
STAGED BY	ALIS
INSPECTOR'S NAME	James
DATE	11/6
FIELD	BY ALI FAN
VERIFICATION	
DRAWINGS	
CONTROLLED BY	ALIS
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	


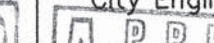
BENCH MARKS
ALBUQUERQUE CONTROL STATION "13-E10"
AN "X" CUT CHISEL ON A BONNET BOLT OF A FIRE HYDRANT IN THE NW QUADRANT OF ATRISCO RD & SANTO DOMINGO ST NW
ELEV=5204.85 NGVD 1929, IN FEET

[illegible]

 **ISAACSON & ARFMAN, P.A.**  
Consulting Engineering Associates  
128 Monroe Street N.E.  
Albuquerque New Mexico  
183PV1.DWGanw 4/4/02

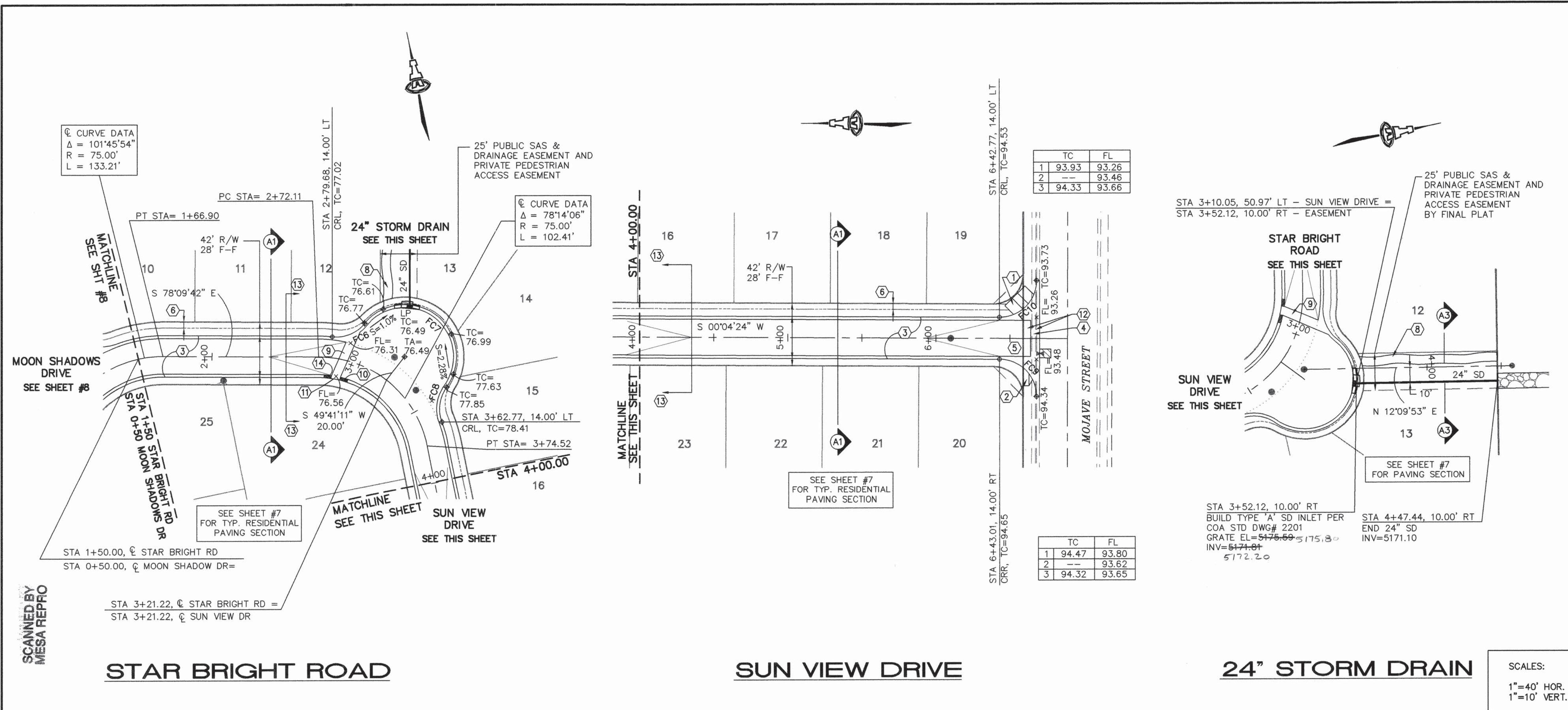
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
MOON SHADOWS DR. & MOJAVE ST.  
PAVING PLAN & PROFILE

Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.	
						
City Project No.		Topic/Item No.				

City Project No.	<b>684381</b>	Zone Map No.	<b>E-10</b>	Sheet	<b>8</b>	Of	<b>16</b>
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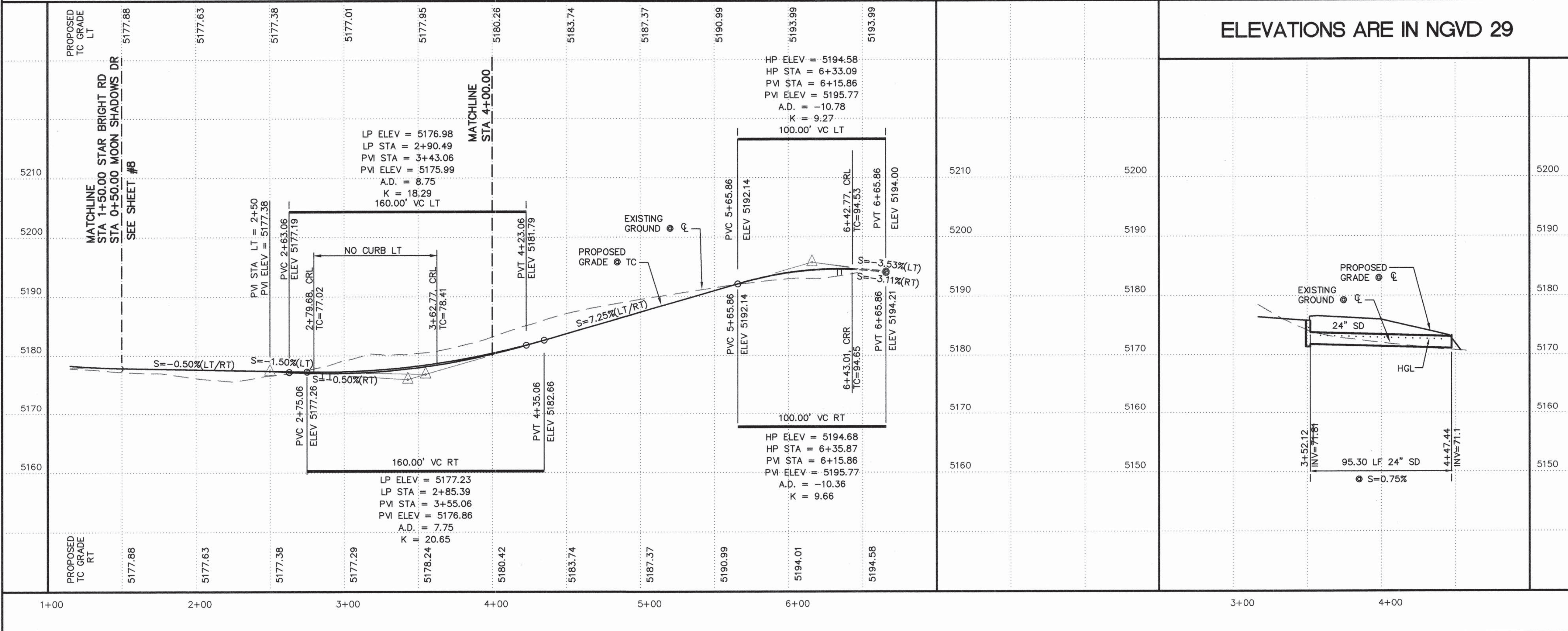


KEYED CONSTRUCTION NOTES

1. CONSTRUCT HANDICAP RAMP PER COA STD DWG #2441, CASE II.
2. CONSTRUCT UNIDIRECTIONAL HANDICAP RAMP PER COA STD DWG #2426.
3. CONSTRUCT STANDARD CURB & GUTTER PER COA STD DWG #2415.
4. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 1-1/2" INVERT PER COA STD DWG #2420.
5. CROWN TO NO CROWN TRANSITION 50' MIN. LENGTH PER COA STD DWG #2401.
6. DEFERRED 4' WIDE SIDEWALK.
7. CONSTRUCT 6' WIDE PCC SIDEWALK.
8. CONSTRUCT 6' WIDE PEDESTRIAN TRAIL PER SECTION ON SHEET 7.
9. STA 2+90.49, LT & 2+85.39, RT---CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 3/4" INVERT PER COA STD DWG #2422--SECTION Y-Y.
10. STA 2+88.39 TO 2+93.39---TRANSITION FROM DEPRESSED GUTTER TO STANDARD GUTTER.
11. CONSTRUCT DEPRESSED GUTTER PER COA STD DWG #2415.
12. REMOVE & DISPOSE 78 LF STD CURB & GUTTER AND 42 SY PCC SIDEWALK.
13. STA 2+50 TO VALLEY GUTTER---TRANSITION FROM NORMAL CROWN TO FULL CROSS SLOPE (0.9%) AS INDICATED BY PROFILE LT & RT TO GRADES. CONTINUE CROSS SLOPE TO STA 3+85. STA 3+85 TO 4+35---TRANSITION FROM CROSS SLOPE TO NORMAL CROWN.
14. STA 2+77.39 TO 2+82.39---TRANSITION FROM STANDARD GUTTER TO DEPRESSED GUTTER.

FACE OF CURB CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
FC6	24.61'	25.00'	56°23'49"
FC7	107.68'	35.00'	176°16'12"
FC8	24.61'	25.00'	56°23'49"
FC9	39.19'	25.00'	89°49'35"
FC10	39.35'	25.00'	90°10'22"



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Albuquerque New Mexico 87102  
4/4/02

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
STAR BRIGHT RD, SUN VIEW DR & 24" STORM DRAIN  
PAVING AND STORM DRAIN PLAN & PROFILE

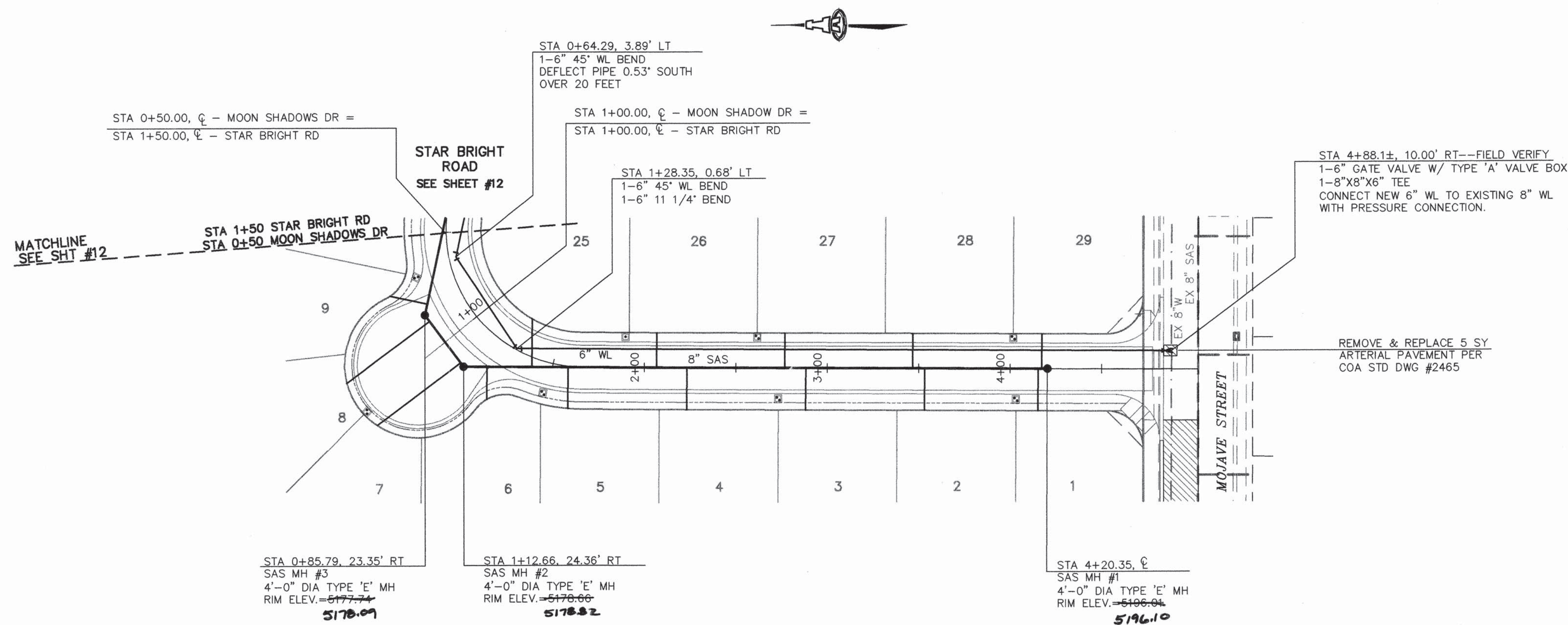
APPROVED  
DESIGN REVIEW COMMITTEE  
CITY ENGINEER



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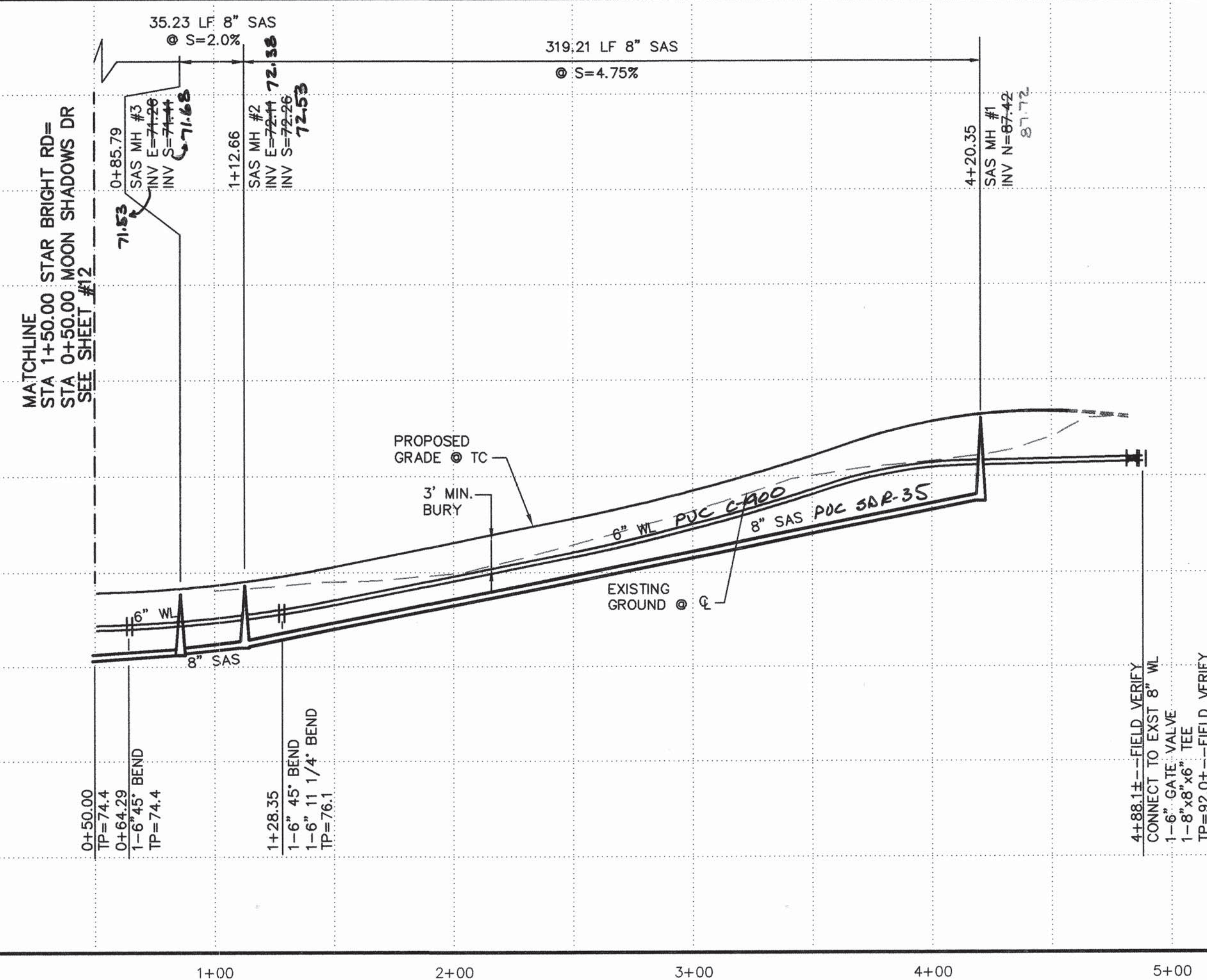
Sheet 10 Of 16





## MOON SHADOWS DRIVE

SCALES:  
1"=40' HOR.  
1"=10' VERT.



ELEVATIONS ARE IN NGVD 29









- ## GENERAL NOTES
1. CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
  2. CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG #2361, #2362, & #2363. SEE SHEET 10 FOR NEW COA STD DWG #2362.
  3. SEE SHEET 10 FOR WATER SHUT-OFF PLAN.
  4. SEE SHEET 10 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
  5. CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
  6. SEE COA STD DWG #2328 FOR VALVE RING & COVER DETAIL.

### UTILITY SERVICE TABLE

LOT NO.	STATION		SAS INV @ R/W
	WATER, LENGTH	SAS, LENGTH	
1	4+03.20, 26.8'	4+15.20, 23.0'	92.2
2		3+53.20, 23.0'	88.3
3		2+88.20, 23.0'	83.7
4	2+73.20, 26.8'	2+23.20, 23.0'	80.2
5		1+60.11, 22.7'	77.1
6		1+27.78, 17.8'	75.6
7	1+01.23, 80.8'	1+05.76, 56.8'	75.8
8		0+91.97, 56.7'	74.9
9		0+73.63, 20.7'	74.2
10	0+67.10, 18.3'	(SEE SHEET 12)	--
25 (S)	1+89.67, 6.8'	1+27.25, 26.4'	74.2
26	2+61.67, 6.8'	2+06.67, 19.0'	77.8
27		2+76.67, 19.0'	81.7
28		3+46.67, 19.0'	87.8
29	4+01.67, 6.8'	4+17.20, 19.0'	92.2

ALL WATER SERVICES ARE DOUBLE EXCEPT WHERE NOTED AS (S) SINGLE.

### LEGEND

- |   |                          |
|---|--------------------------|
|  | SINGLE WATER METER & BOX |
|  | DOUBLE WATER METER & BOX |
|  | GATE VALVE W/ BOX        |
|  | FIRE HYDRANT             |
|  | SAS MANHOLE              |
|  | WATER LINE W/ TEE        |
|  | EXISTING SAS MANHOLE     |
|  | EXISTING WATERLINE       |



**ISAACSON & ARFMAN, P.A.**  
*Consulting Engineering Associates*  
 128 Monroe Street N.E.  
 Albuquerque New Mexico  
 183UT1.DWGanw 03/07/02

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
MOON SHADOWS DRIVE  
UTILITY PLAN & PROFILE

Design Review Committee

City Engineer Approval

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2	
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Mo.

Day/Yr


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Mo./Da.

y/Yr.

APPROVE

APR 24 2002

DESIGN

APPROVED  
JUL 22 1972  
CITY ENGINEER

Last Design Update

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City Project No.

684381

Zone Map No.  
**E-10**

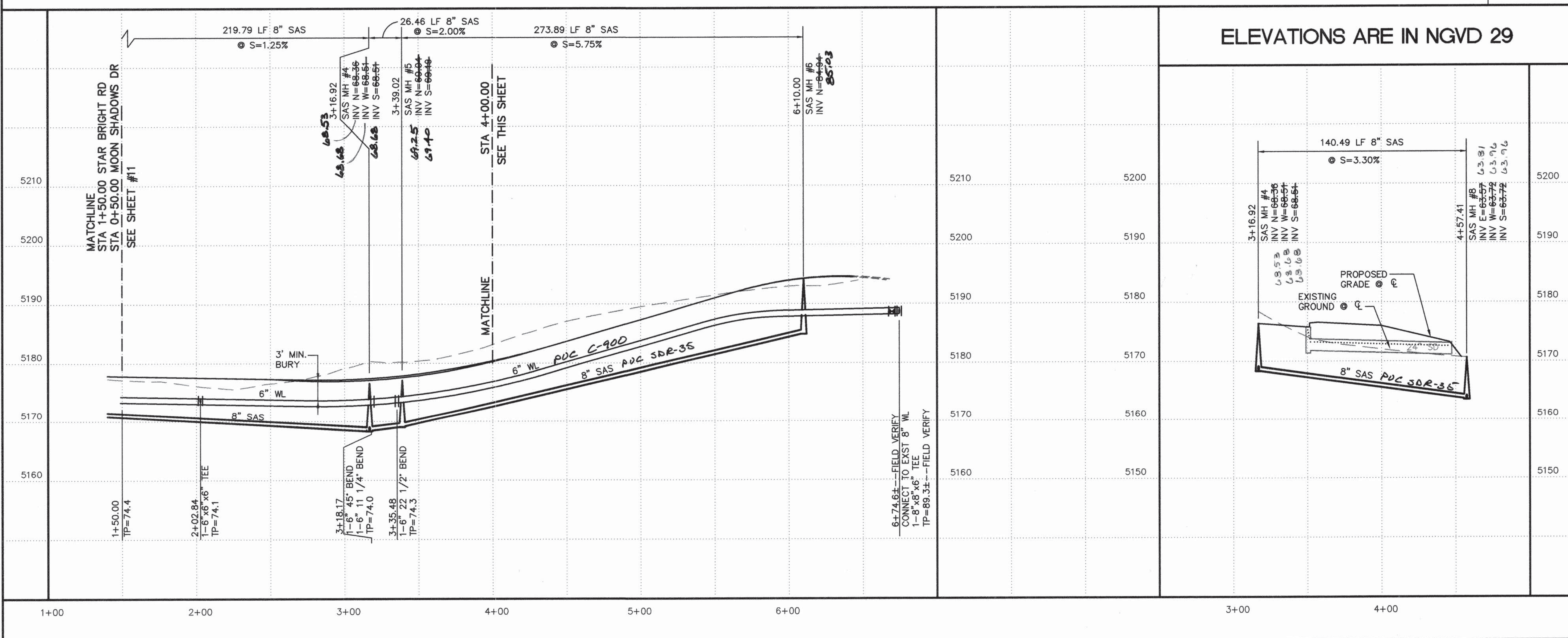
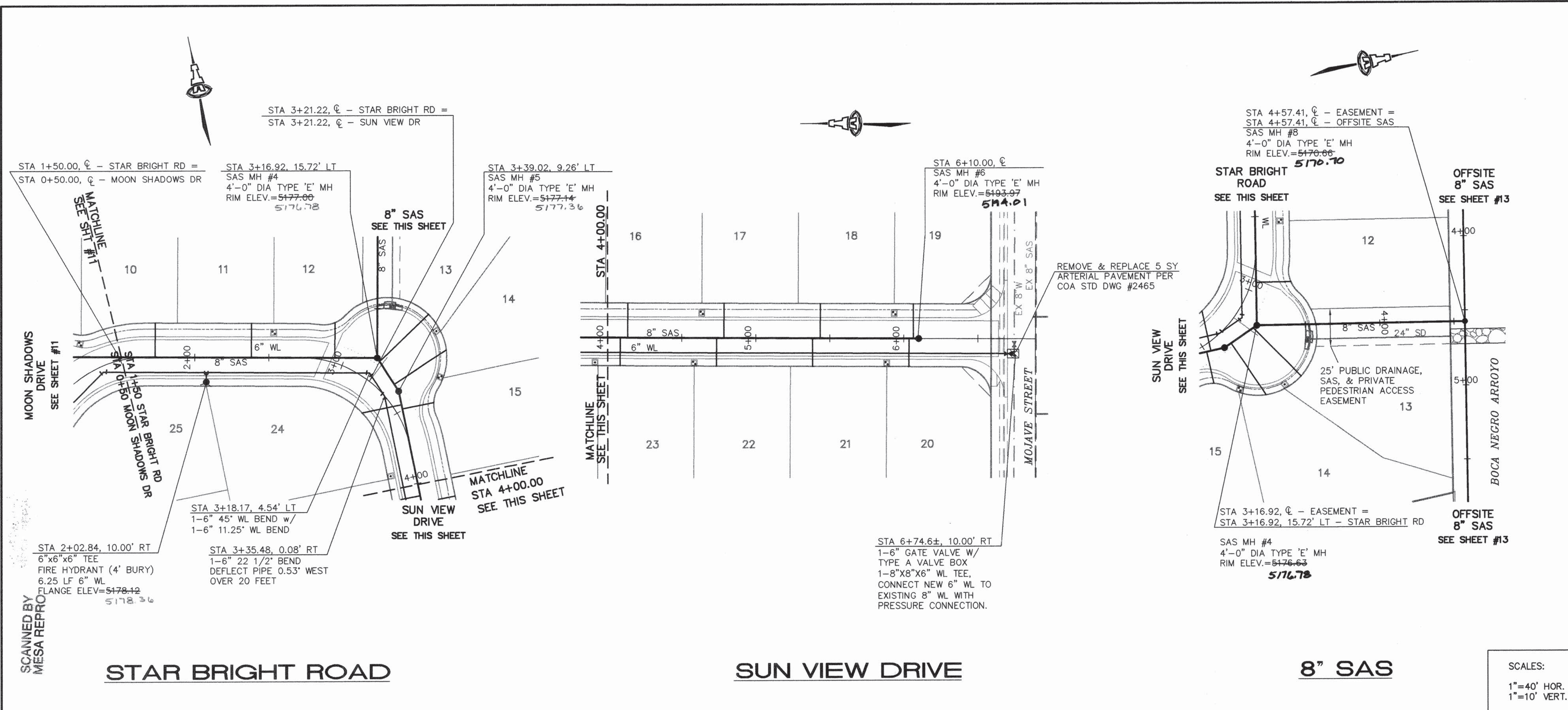
Sheet
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11 Of

16

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**GENERAL NOTES**

- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
- CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG #2361, #2362, & #2363. SEE SHEET 10 FOR NEW COA STD DWG #2362.
- SEE SHEET 10 FOR WATER SHUT-OFF PLAN.
- SEE SHEET 10 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- SEE COA STD DWG #2328 FOR VALVE RING & COVER DETAIL.

**UTILITY SERVICE TABLE**

LOT NO.	STATION		SAS INV @ R/W
	WATER, LENGTH	SAS, LENGTH	
10	(SEE SHEET 11)	1+66.07, 23.0'	73.8
11	2+53.15, 26.8'	2+38.15, 23.0'	73.4
12		2+88.83, 23.6'	72.9
13 (S)	3+29.93, 52.8'	3+23.63, 45.7'	72.6
14	3+46.81, 38.7'	3+38.16, 39.0'	73.2
15		3+54.75, 21.7'	74.4
16	4+63.43, 26.8'	4+13.43, 23.0'	77.1
17		4+78.43, 23.0'	81.8
18	5+93.43, 26.8'	5+43.43, 23.0'	86.5
19		6+06.43, 23.0'	90.2
20	5+88.43, 6.8'	6+03.43, 19.0'	90.1
21		5+38.43, 19.0'	86.1
22	4+58.43, 6.8'	4+73.43, 19.0'	81.4
23		4+08.43, 19.0'	76.9
24 (S)	3+93.43, 6.8'	3+33.75, 27.0'	73.6
25	(SEE SHEET 11)	1+88.22, 19.0'	73.7

ALL WATER SERVICES ARE DOUBLE EXCEPT WHERE NOTED AS (S) SINGLE.

**AS-BUILT INFORMATION**

CONTRACTOR: SAHS  
WORKED BY: SAHS  
ACCEPTANCE BY: SAHS  
DATE: 7/24/02

**ENGINEER'S SEAL**

FRED C. ARFMAN  
NEW MEXICO  
7322  
PROFESSIONAL ENGINEER  
04-08-02

REVISIONS

NO.	DATE	REMARKS
1	04/02/02	DESIGN

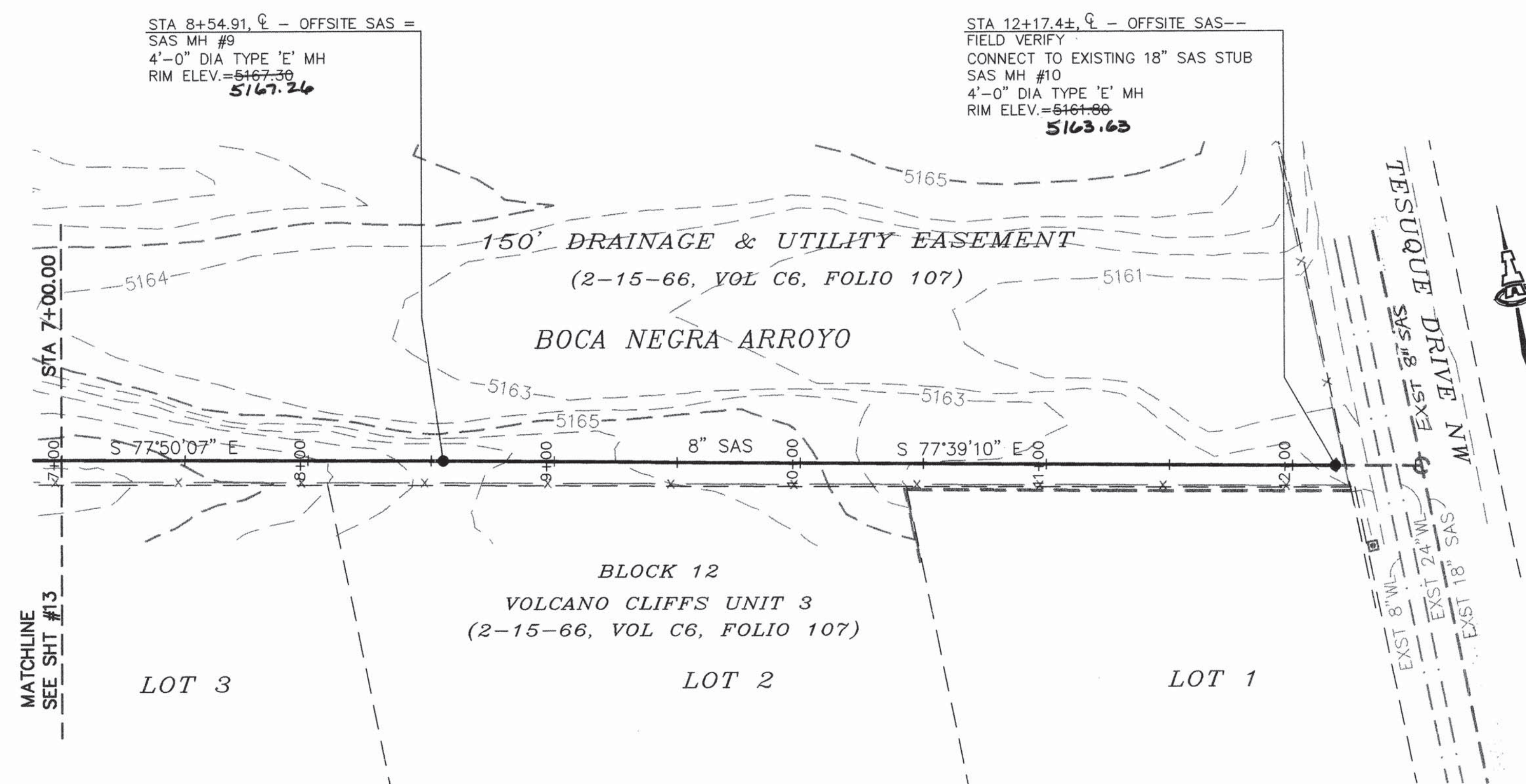
DESIGNED BY: ANW  
DRAWN BY: ANW  
CHECKED BY: FCA





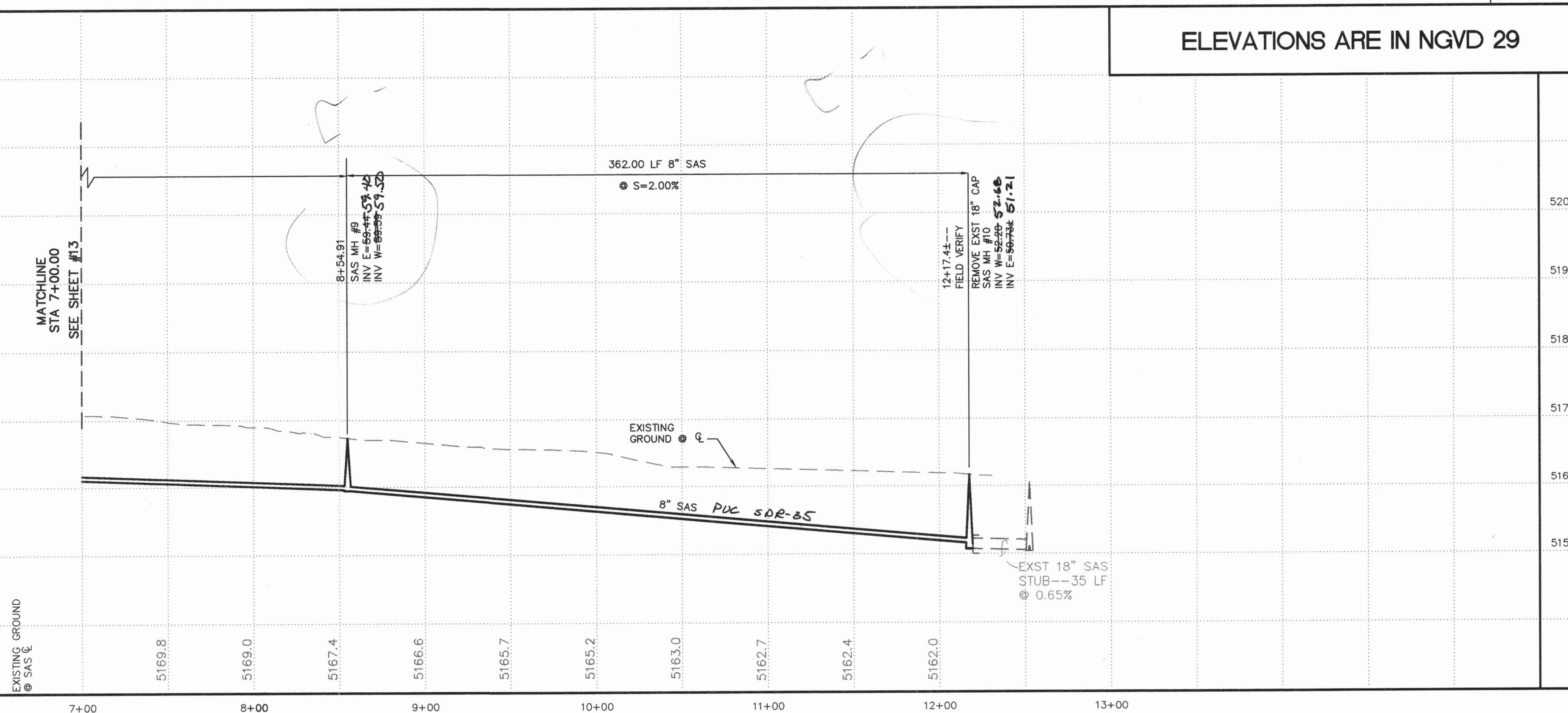


SCANNED BY  
MESA REPRO











## OFFSITE 8" SAS

SCALES:  
1"=40' HOR.  
1"=10' VERT.



ELEVATIONS ARE IN NGVD 29

### LEGEND

- |   |                          |
|---|--------------------------|
|  | SINGLE WATER METER & BOX |
|  | DOUBLE WATER METER & BOX |
|  | GATE VALVE W/ BOX        |
|  | FIRE HYDRANT             |
|  | SAS MANHOLE              |
|  | WATER LINE W/ TEE        |
|  | EXISTING SAS MANHOLE     |
|  | EXISTING WATERLINE       |

**ISAACSON & ARFMAN, P.A.**  
Consulting Engineering Associates  
128 Monroe Street N.E.  
Albuquerque New Mexico  
183UT2.DWGanw 4/1/02

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
OFFSITE SAS IN BOCA NEGRA ARROYO - STA 7+00 - END  
UTILITY PLAN & PROFILE

	Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
A	APR 24 2002 DESIGN REVIEW COMMITTEE	JUL 22 2002 CITY ENGINEER			
B					
C					
D					
E					
F					
G					
H					
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X					
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Z					

City Project No.	684381	Zone Map No.	E-10	Sheet	14	Of	16
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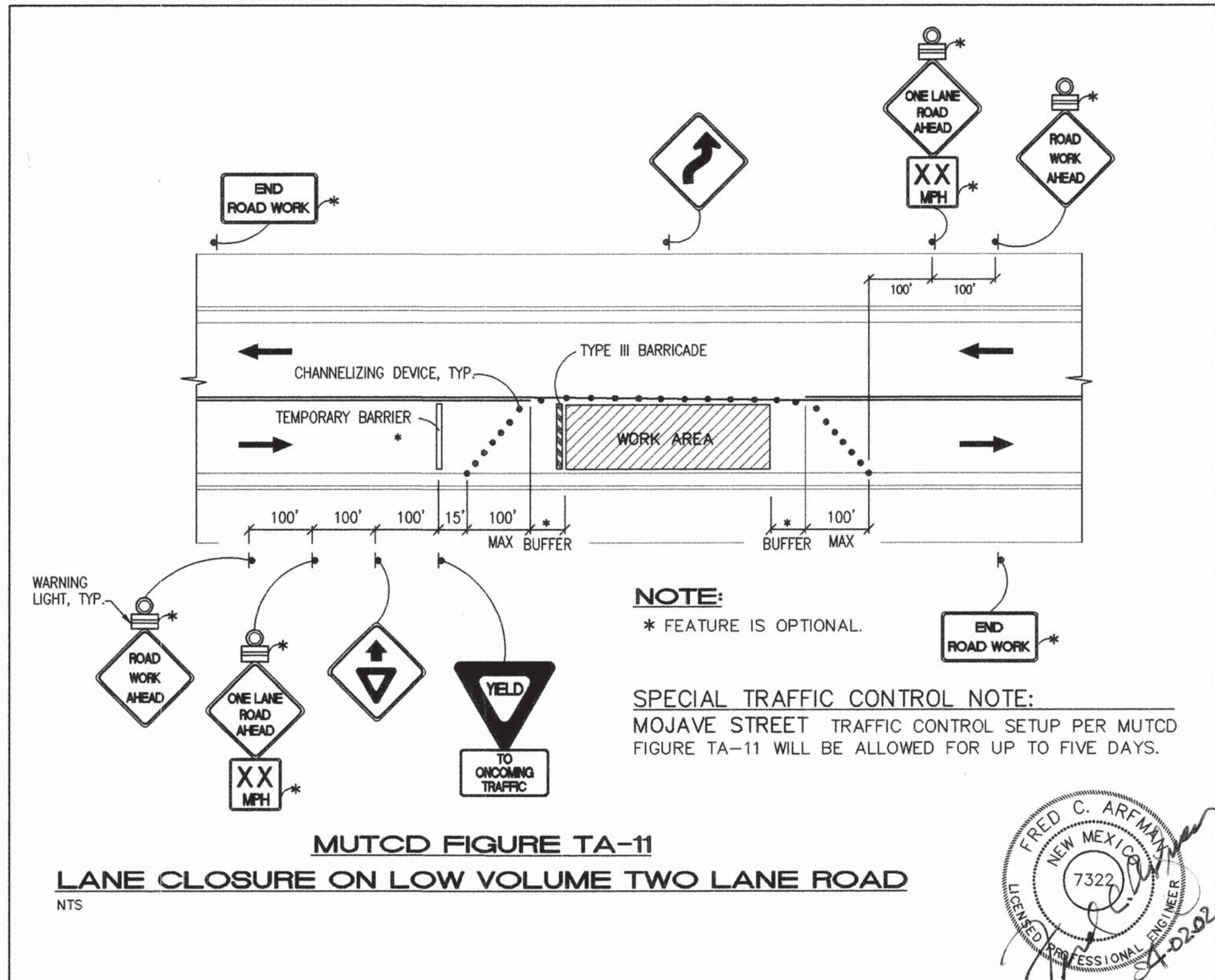
SURVEY INFORMATION		BENCH MARKS	AS-BUILT INFORMATION
1.	FIELD NOTES ALDRICH LAND SURVEYING	ALBUQUERQUE CONTROL STATION "13-E10" AN "X" CUT CHISEL ON A BONNET BOLT OF A FIRE HYDRANT IN THE NW QUADRANT OF ATRISCO RD & SANTO DOMINGO ST NW ELEV=5204.85 NGVD 1929, IN FEET	CONTRACTOR <b>SAHS</b> DATE DRAWN BY <b>SAHS</b> DATE <b>11/02</b> INSPECTOR'S SIGNATURE <b>SAHS</b> DATE <b>9/12</b> FIELD VERIFICATION BY <b>SAHS</b> DATE <b>10/2</b> REVISION CORRECTED BY <b>SAHS</b> DATE <b>10/2</b> MICRO-FILM INFORMATION RECORDED BY DATE NO.

[illegible]

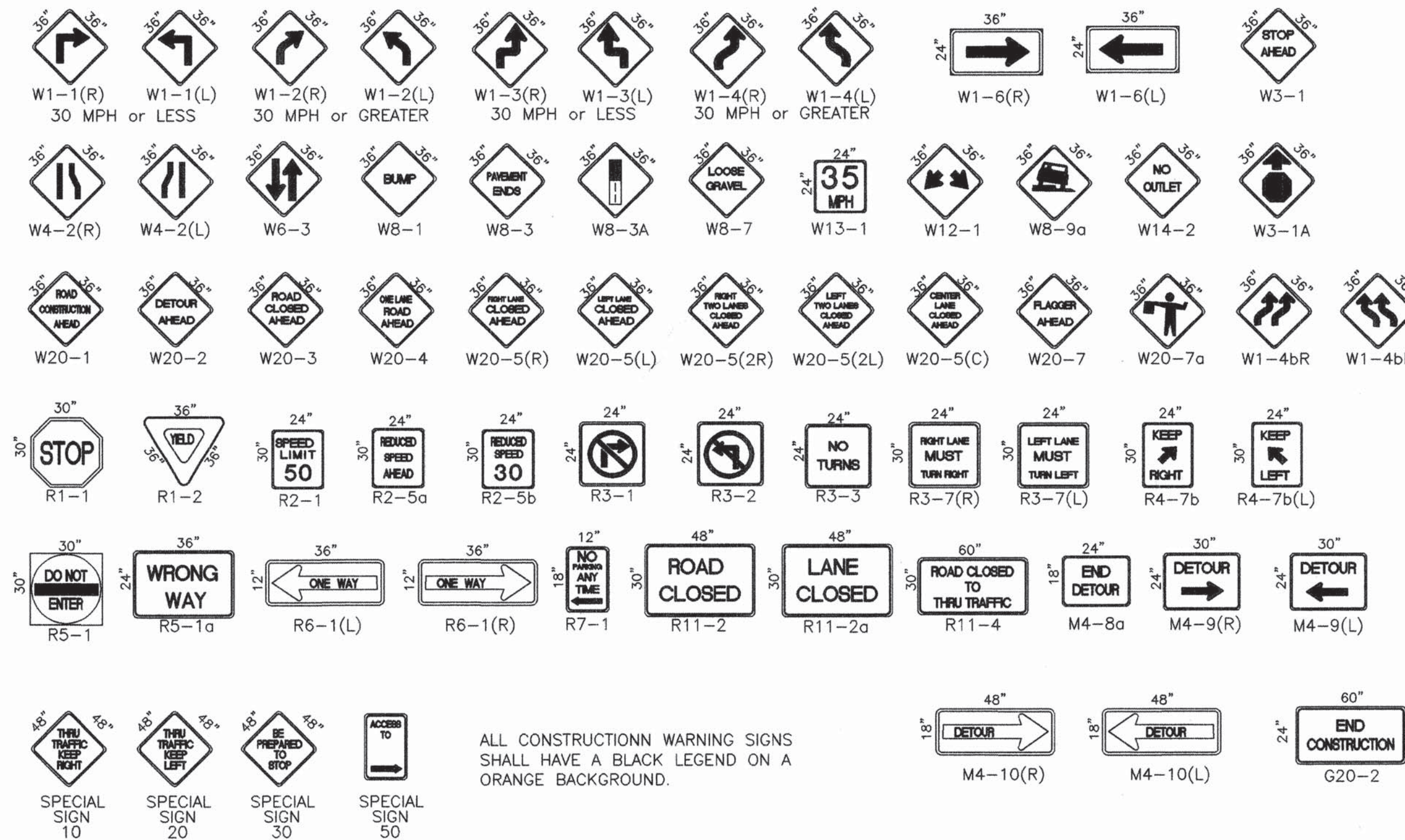


CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

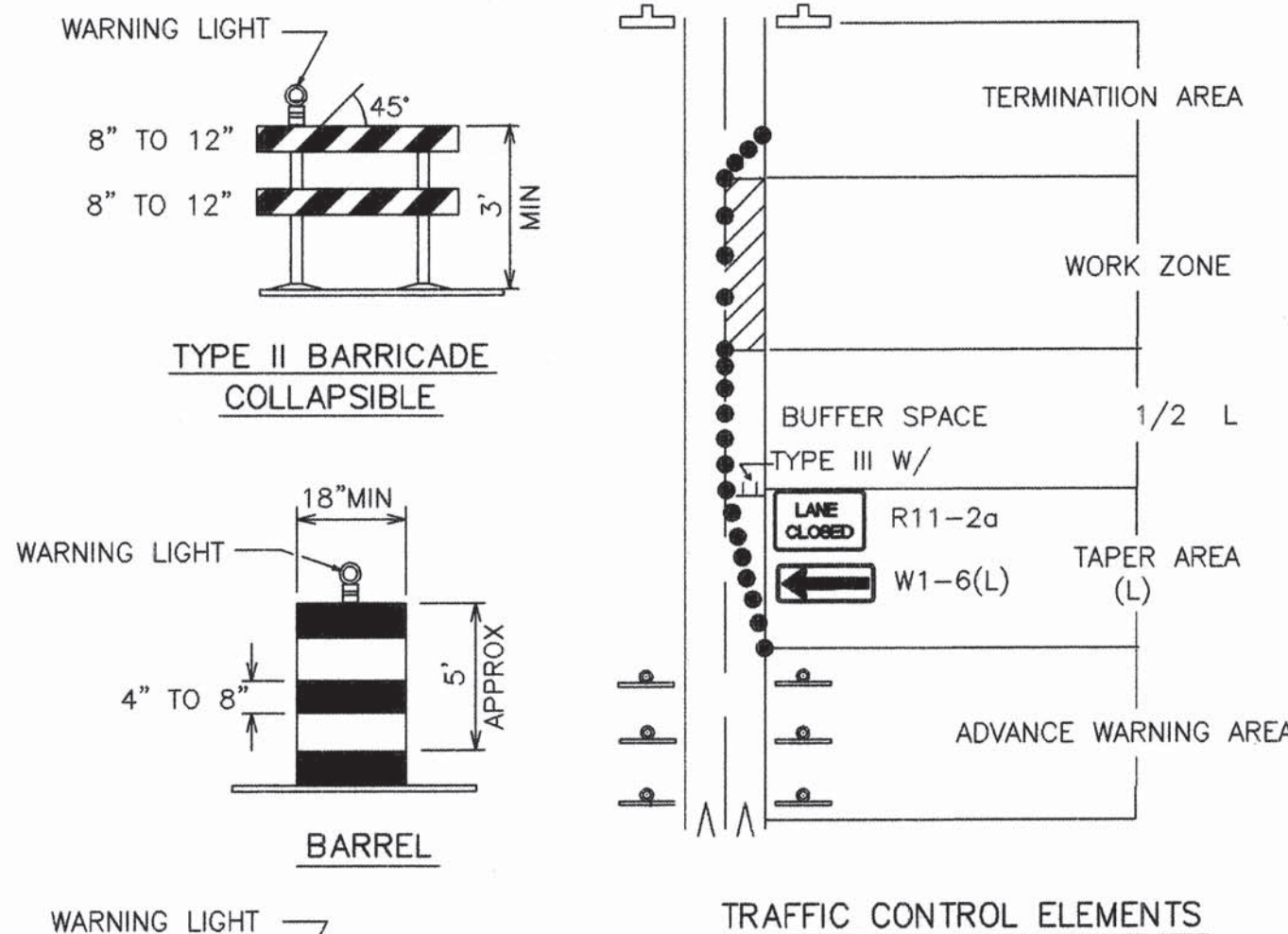
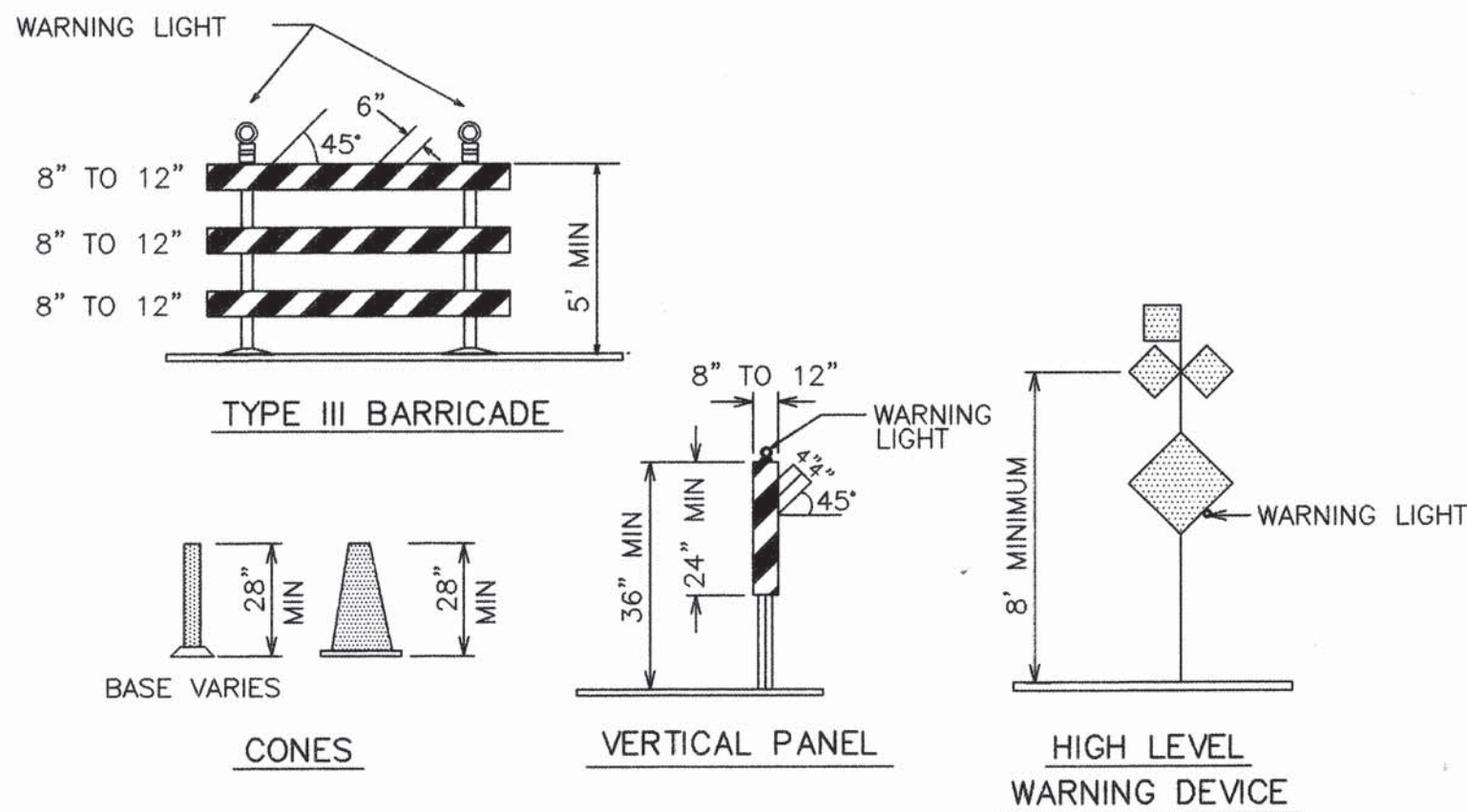
1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.
21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.



SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.



LEGEND

- WORK AREA  
BARRICADE - TYPE I, TYPE II, OR BARREL  
BARRICADE - TYPE III  
VERTICAL PANEL  
WARNING SIGN  
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET  
FLAGMAN POSITION  
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET  
TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE BETWEEN SIGNS	MINIMUM DISTANCE FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

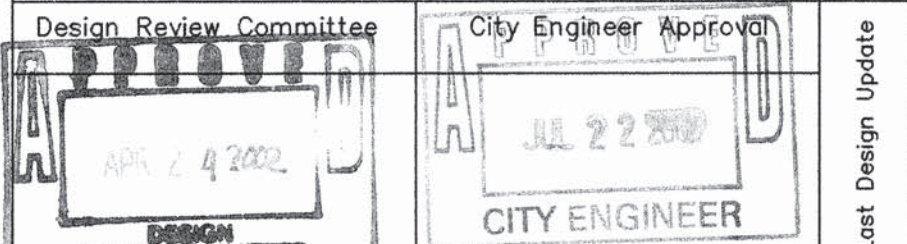
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH  
W = WIDTH OF OFFSET IN FEET  
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: PETROGLYPH SHADOWS SUBDIVISION  
TRAFFIC CONTROL  
SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS



City Project No. 684381  
Zone Map No. E-10  
Sheet 15 of 16

AS-BUILT INFORMATION	CONTRACTOR: SAIS	DATE: 4/1/02	BY: JAS	REVISIONS	DESIGNED BY: ANW	DATE: 2/02	CHECKED BY: FCA	DATE: 2/02
BENCH MARKS	ALBUQUERQUE CONTROL STATION "13-E10"	DATE: 4/1/02	BY: JAS	REVISIONS	DESIGNED BY: ANW	DATE: 2/02	CHECKED BY: FCA	DATE: 2/02
SURVEY INFORMATION	ALDRICH LAND SURVEYING	DATE: 4/1/02	BY: JAS	REVISIONS	DESIGNED BY: ANW	DATE: 2/02	CHECKED BY: FCA	DATE: 2/02
ENGINEER'S SEAL	CITY STANDARD DRAWING	DATE: 4/1/02	BY: JAS	REVISIONS	DESIGNED BY: ANW	DATE: 2/02	CHECKED BY: FCA	DATE: 2/02



