CONSTRUCTION PLANS FOR

UNIT 2 DESERT HIGHLANDS AT HIGH DESERT

ALBUQUERQUE, NEW MEXICO

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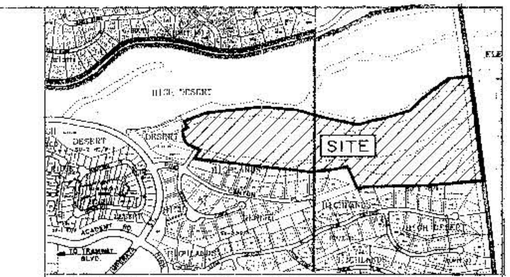
RECORD DRAWING



VICINITY MAP: NOT TO SCALE ZONE MAP NO. E-23/24

NOTICE TO CONTRACTORS

1. 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 AND SHALL INCLUDE UPDATE No.6
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED 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.
7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [X] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [ ] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [ ] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [ ] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [X] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [X] THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

Charles G. Cala, Jr., NMPLS 11184 — 6-15-2000 Date

APPROVAL OF AS BUILT DRAWINGS CHIEF CONSTRUCTION ENGINEER DATE 10/6/99

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	7-13/12-15, 17		06/2000				

ENGINEERS' STAMP & SIGNATURE: KEVIN O. PATTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 9/28/99

APPROVALS	ENGINEER	DATE
DRC Chairman		10-07-99
Transportation		10-06-99
Water/Wastewater	Rebecca Tinkle	10-6-99
Hydrology	Steve Calderon	10-6-99
Parks		
Const. Mngmt.		
Const. Coord.		10-6-99
NMDOT		

APPROVED FOR CONSTRUCTION — City Engineer — Date 11/3/99

DRB Case Number: 99-161 — City Project No.: 621981 — Sheet 1 Of 21

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

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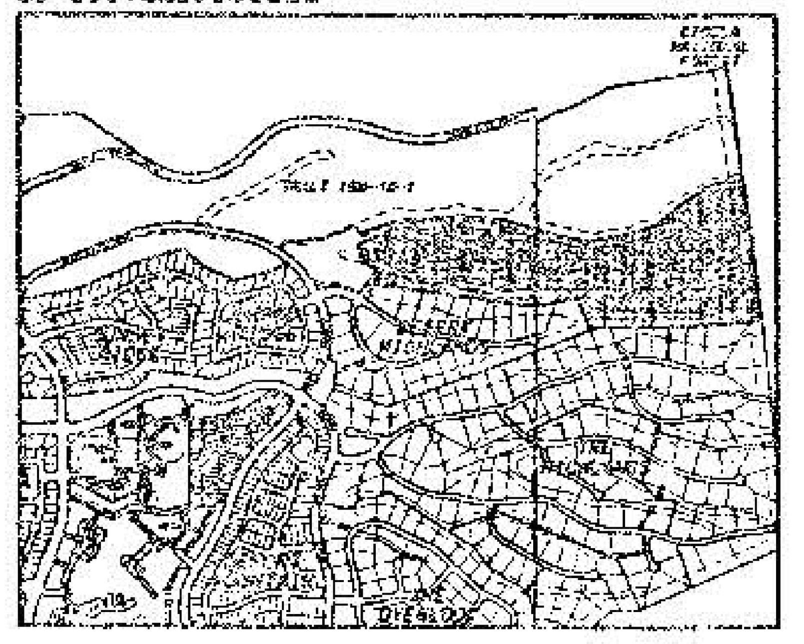


LOCATION MAP

ZONE ATLAS INDEX MAP No. E-23-Z & E-24-Z
NOT TO SCALE

SUBDIVISION DATA

1. DRB No. 99-161.
2. Zone Atlas Index No. E-23-Z and E-24-Z.
3. Gross Subdivision Acreage: 50.3436 Acres.
4. Total Number of Lots created: Forty (40) Lots.
5. This Plat shows existing easements.
6. Date of Survey: June, 1999
7. Total mileage of full width streets created: 0.605 mile
8. Total mileage of partial width streets created: 0 mile
9. Plat is located within the Elena Gallegos Grant, within Projected Sections 25 and 26, T11N, R4E, NMPM.

DISCLOSURE STATEMENT

The purpose of this Plat is to subdivide Tract 15D-1B-2 of the BULKLAND PLAT OF TRACTS 15D-1B-1 & 15D-1B-2 HIGH DESERT, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on ____________, in Book 99C, Page ___ as Document No. __________, into Forty (40) Lots, to dedicate additional public street right-of-way to the City of Albuquerque and to grant easements.

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are for the common joint use of:

A. PNM Electric Services for the installation, maintenance and service of underground electrical lines, transformers, and other equipment, fixtures, structures, and related facilities reasonably necessary to provide electrical service.

B. PNM Gas services for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.

C. U.S. West for the installation, maintenance, and service of all buried communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.

D. Jones Intercable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool, (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code caused by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

DESCRIPTION

A certain tract of land situate within the Elena Gallegos Grant, within projected Sections 25 and 26, Township 11 North, Range 4 East, New Mexico Principal Meridian, Bernalillo County, Albuquerque, New Mexico, being and comprising all of Tract 15D-1B-2 of the BULKLAND PLAT OF TRACTS 15D-1B-1 & 15D-1B-2 HIGH DESERT, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on ________, 1999 in Book 99C, Page ___ as Document No. ________ and being more particularly described by New Mexico State Plane Grid Bearings (Central Zone NAD 1927 Datum) and ground distances as follows:

BEGINNING at the northeast corner of said Tract 15D-1B-2, whence the Albuquerque City Survey (ACS) monument "1-E24 RESET 1996" a 3-1/4 inch aluminum cap cemented in top of a 2-1/2 inch pipe (having New Mexico State Plane Coordinates Central Zone NAD27 of Y=1,526,318.30 and X=[illegible],365.06) bears N72°20'16"E a distance of 1712.16 feet and from said point of beginning running thence along the easterly boundary line of said Tract 15D-1B-2,
S07°27'00"E, a distance of 1113.18 feet to the southeast corner of said Tract 15D-1B-2; thence running along the southerly boundary line of said Tract 15D-1B-2,
S66°05'02"E, a distance of 567.76 feet to a point; thence,
S49°51'54"W, a distance of 727.73 feet to a point; thence,
S49°41'44"W, a distance of 68.13 feet to a point; thence,
N22°35'55"W, a distance of 268.65 feet to a point; thence,
S46°02'08"W, a distance of 277.48 feet to a point; thence,
N09°51'42"E, a distance of 13.40 feet to a point; thence,
S05°25'29"W, a distance of 129.07 feet to a point; thence,
N82°23'54"W, a distance of 1239.37 feet to the southwest corner of said Tract 15D-1B-2; thence running along the westerly boundary line of said Tract 15D-1B-2,
N33°25'35"E, a distance of 125.36 feet to a point; thence,
N74°20'04"W, a distance of 54.58 feet to a point; thence,
N63°01'26"E, a distance of 12.59 feet to a point; thence,
N61°55'01"W, a distance of 71.90 feet to a point of curvature; thence,
82.08 feet along the arc of a curve to the right having a radius of 58.60 feet and a chord which bears N28°05'05"W, a distance of 79.60 feet to a point of tangency; thence,
N04°15'05"W, a distance of 73.00 feet to a point; thence,
N57°25'24"E, a distance of 54.38 feet to a point; thence,
S37°00'39"E, a distance of 77.40 feet to the northwest corner of said Tract 15D-1B-2; thence running along the northerly boundary line of said Tract 15D-1B-2,
N71°00'51"E, a distance of 216.50 feet to a point; thence,
N65°09'52"E, a distance of 559.50 feet to a point; thence,
S84°12'47"E, a distance of 343.12 feet to a point; thence,
S79°54'00"E, a distance of 149.77 feet to a point; thence,
S73°21'22"E, a distance of 147.45 feet to a point; thence,
S79°08'54"E, a distance of 143.25 feet to a point; thence,
S77°45'57"E, a distance of 157.56 feet to a point; thence,
S80°33'12"E, a distance of 139.64 feet to a point; thence,
N75°57'29"E, a distance of 171.00 feet to a point; thence,
N83°06'28"E, a distance of 125.54 feet to a point; thence,
N75°42'56"E, a distance of 140.28 feet to a point; thence,
N71°05'08"E, a distance of 140.58 feet to a point; thence,
N47°28'36"E, a distance of 193.18 feet to a point; thence,
N57°23'40"E, a distance of 69.37 feet to a point; thence,
N54°36'04"E, a distance of 240.69 feet to a point; thence,
N85°53'02"E, a distance of 233.15 feet to the point and place of beginning.

Tract contains 50.3436 acres, more or less.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone) NAD 1927 Datum also being the same as Bearings shown on PLAT OF TRACTS 4C-1, 15D-1A & 15D-1B HIGH DESERT, Albuquerque, New Mexico, recorded March 17, 1998 in Book 98C, Page 72, as Document No. 1998031498.
2. Distances are ground distances.
3. All easements of record are shown or referenced.
4. 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 improvements and will consist of a standard four-inch (4") aluminum alloy cap stamped "City of Albuquerque", "Centerline Monumentation", "Survey Marker", "Do Not Disturb", PLS# 6544.
5. No more than one wood burning fireplace is permitted per lot; all other fireplaces must be gas fired using artificial logs.
6. No walls or fences shall be built outside the Building Envelope and buildings shall conform to the conditions and restrictions described in the Declaration of Covenants for High Desert Residential Properties, recorded December 22, 1993.
7. City of Albuquerque Water and Sanitary Sewer Service to UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT must be verified and coordinated with the Public Works Department, City of Albuquerque.
8. Those portions of each lot in UNIT 2 OF THE HIGHLANDS AT HIGH DESERT which are (i) outside the building envelopes as indicated on Sheets 4 and 5 and (ii) outside of the easement in favor of AMAFCA and the High Desert Residential Owners Association indicated on sheets 6 and 7 are subject to the Easement Agreement in favor of the City of Albuquerque recorded June 3, 1998, in Book 9810, Page 6539, records of Bernalillo County, New Mexico as Document number 1998068549.
9. The 20 foot strip(s) of property along the public rights-of-way of each lot in Unit 2 is(are) subject to the Landscaping Easement in favor of the High Desert Residential Owners Association to be granted by a separate document.
10. Lots 40 & 68 may require Private Sanitary Sewer Pumping Facilities.
11. Open Space Easement to High Desert Residential Owners Association, subordinate to Drainage Easements in favor of AMAFCA and Owners Association to be granted by a separate document.

FREE CONSENT AND DEDICATION

The foregoing Plat of that certain tract of land situate within the Elena Gallegos Grant, in Projected Sections 25 and 26, Township 11 North, Range 4 East, New Mexico Principal Meridian, Bernalillo County, Albuquerque, New Mexico, being and comprising all of Tract 15D-1B-2 of the BULKLAND PLAT OF TRACTS 15D-1B-1 & 15D-1B-2 HIGH DESERT, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, recorded in the office of the County Clerk of Bernalillo County, New Mexico on ________, 1999 in Book 99C, Page ___ as Document No. ________, now comprising Lots 29 thru 68 inclusive of UNIT 2 DESERT HIGHLANDS AT HIGH DESERT is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof and said owner(s) and/or proprietor(s) do hereby dedicate all streets and public rights-of-way shown hereon to the City of Albuquerque in Fee Simple with Warranty Covenants, and do hereby grant all access, Utility and Drainage Easements hereon including the right to construct, operate, inspect, and maintain facilities therein and all Public Utility easements shown hereon for the common and joint use of Gas, Electrical Power and Communication Services for buried distribution lines, conduits, pipes for underground utilities where shown or indicated, including the right of ingress and egress for construction and maintenance, and the right to trim interfering trees and shrubs. The City has the right to enter upon the Grantors Property at any time and perform whatever inspection, installation, maintenance, repair, modification or removal ("Work") it deems appropriate without liability to the City. If the Work affects any Improvements or Encroachments made by the Grantor, the City will not be financially or otherwise responsible for rebuilding or repairing of Improvements or Encroachments. If in the opinion of the City, the Work to be performed by the City could endanger the structural integrity or otherwise damage the Improvements or Encroachments, the Grantee shall, at its own expense, take whatever protective measures are required to safeguard the Improvements or Encroachments. Said owner(s) and/or proprietor(s) do hereby consent to all of the foregoing and do hereby certify that this subdivision is their free act and deed.

HIGH DESERT INVESTMENT CORPORATION

BY: [signature]
Douglas H. Collister, President

State of New Mexico)
ss
County of Bernalillo)

This instrument was acknowledged before me on 13 day of August 1999, by Douglas H. Collister, President of High Desert Investment Corporation.

OFFICIAL SEAL
[illegible] SNYDER
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 4-18-00

[signature]
Notary Public

NOTE: (The following is applicable to Private Drainage Easements only.

By the filing of this plat, all lots are subject to cross-drainage easements over that portion of each lot outside the building envelope, and over that portion of the building lot of each lot upon which there are no improvements, for drainage of storm water runoff. No person shall alter the drainage on any lot so as to materially increase the drainage of storm water onto adjacent portions of any lots or alter the surface of the cross-drainage easement without the consent of the owner of the affected property and the High Desert Residential Owners Association, Inc. Such cross-drainage easements are in addition to those created and described in the Declaration of Covenants, Conditions, and Restrictions for High Desert Residential Properties, recorded December 27, 1993, in Book 93-36, Pages 1-87, records of Bernalillo County, New Mexico (the "Declaration"). The owner of each lot will maintain the cross-drainage easement. If the owner fails to maintain the cross-drainage easement, or alters the surface of the cross-drainage easement, High Desert Residential Owners Association, Inc. will have the right to perform such maintenance as set forth in the Declaration and will have the right to restore the surface of the cross-drainage easement. The cross-drainage easement over each lot will not restrict the right of the owner of the lot to construct reasonable driveways and walkways from the public street to the building envelope over that portion of the lot subject to the cross-drainage easement, as provided in the Declaration. Pursuant to the Declaration the owner of each lot shall design improvements to the lot in conformance with the High Desert Guidelines for Sustainability, and shall provide a certification, as provided in the Guidelines for Sustainability stamped by a registered New Mexico Professional Engineer, indicating the grading and drainage improvements, including foundation wall and finished grade elevations on the lot.

SURVEYOR'S CERTIFICATION

I, A. Dwain Weaver, a registered Professional New Mexico Surveyor, certify that I am responsible for this survey and that this plat was prepared by me or under my supervision, shows all easements of record, and conforms to the Minimum Requirements of the Board of Registration for Professional Engineers and Professional Surveyors in February 1994 and meets the minimum requirements for monumentation and surveys contained in the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

Bohannan Huston
Courtyard I
7500 Jefferson Street, N.E.
Albuquerque, New Mexico 87109

[signature]
A. Dwain Weaver
New Mexico Professional Surveyor 6544
Date: AUG. 13, 1999

PLAT OF UNIT 2 DESERT HIGHLANDS AT HIGH DESERT
(A REPLAT OF TRACT 15D-1B-2 HIGH DESERT)

ALBUQUERQUE, NEW MEXICO
AUGUST, 1999

APPROVALS

PLAT NUMBER ____________

PLANNING DIRECTOR	DATE 7
CITY ENGINEER	DATE
A.M.A.F.C.A.	DATE
TRAFFIC ENGINEER [signature]	DATE 081349
CITY SURVEYOR	DATE
PROPERTY MANAGEMENT	DATE
UTILITY DEVELOPMENT DEPARTMENT	DATE
PLANNING & POLICY SECTION, CIP	DATE
U.S. WEST COMMUNICATIONS	DATE
JONES INTERCABLE	DATE
PNM ELECTRIC SERVICES	DATE
PNM GAS SERVICES	DATE
HIGH DESERT RESIDENTIAL OWNERS ASSOCIATION, INC.	DATE

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC # ____________

PROPERTY OWNER OF RECORD ____________

BERNALILLO COUNTY TREASURER'S OFFICE ____________ DATE

PNM STAMP

In approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown hereon. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

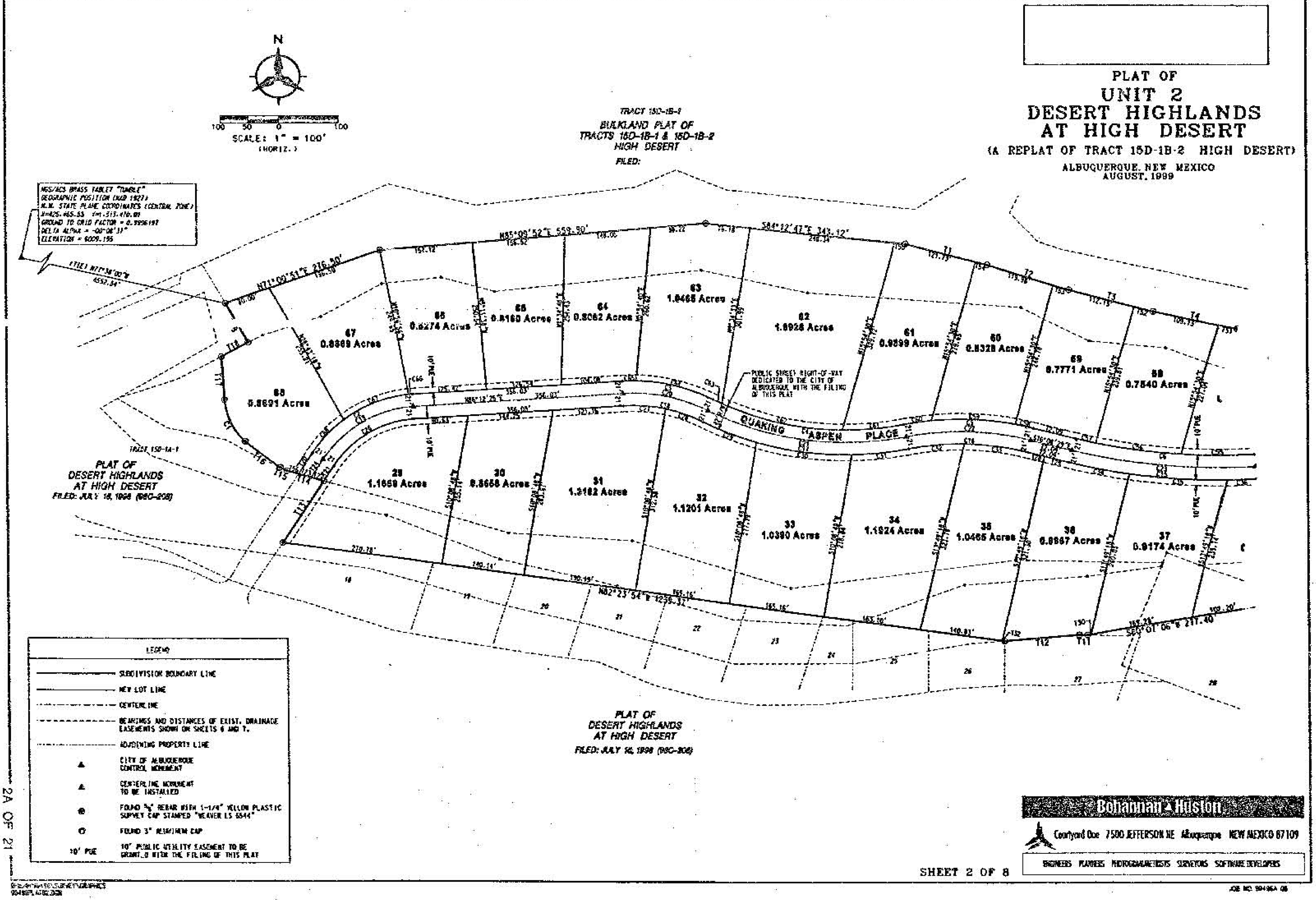
SHEET 1 OF 8

JOB NO. 99496A 08

RECORD DRAWING

PLAT OF UNIT 2 DESERT HIGHLANDS AT HIGH DESERT
(A REPLAT OF TRACT 15D-1B-2 HIGH DESERT)

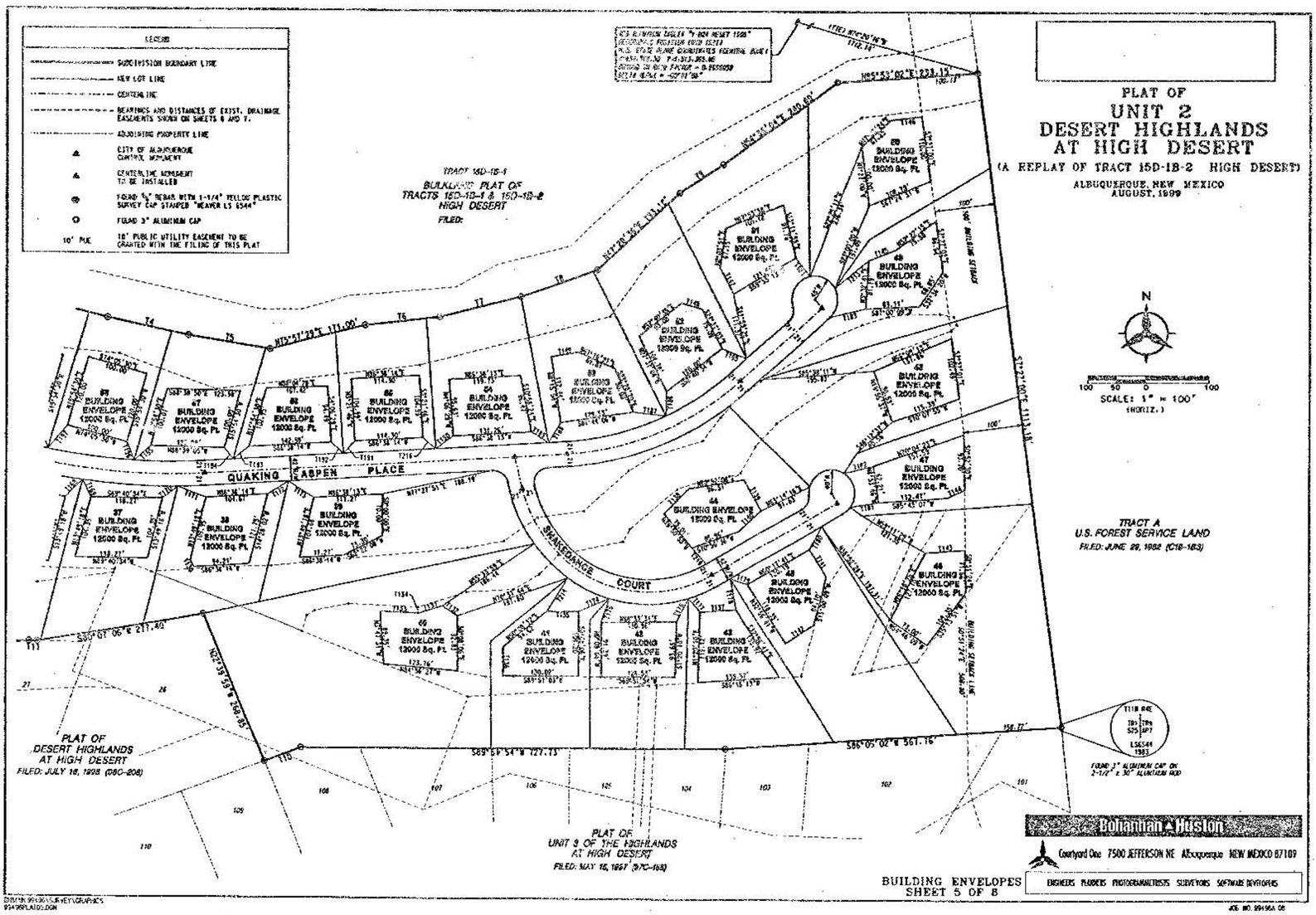
ALBUQUERQUE, NEW MEXICO
AUGUST, 1999



Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

SHEET 2 OF 8

JOB NO. 99496A 08



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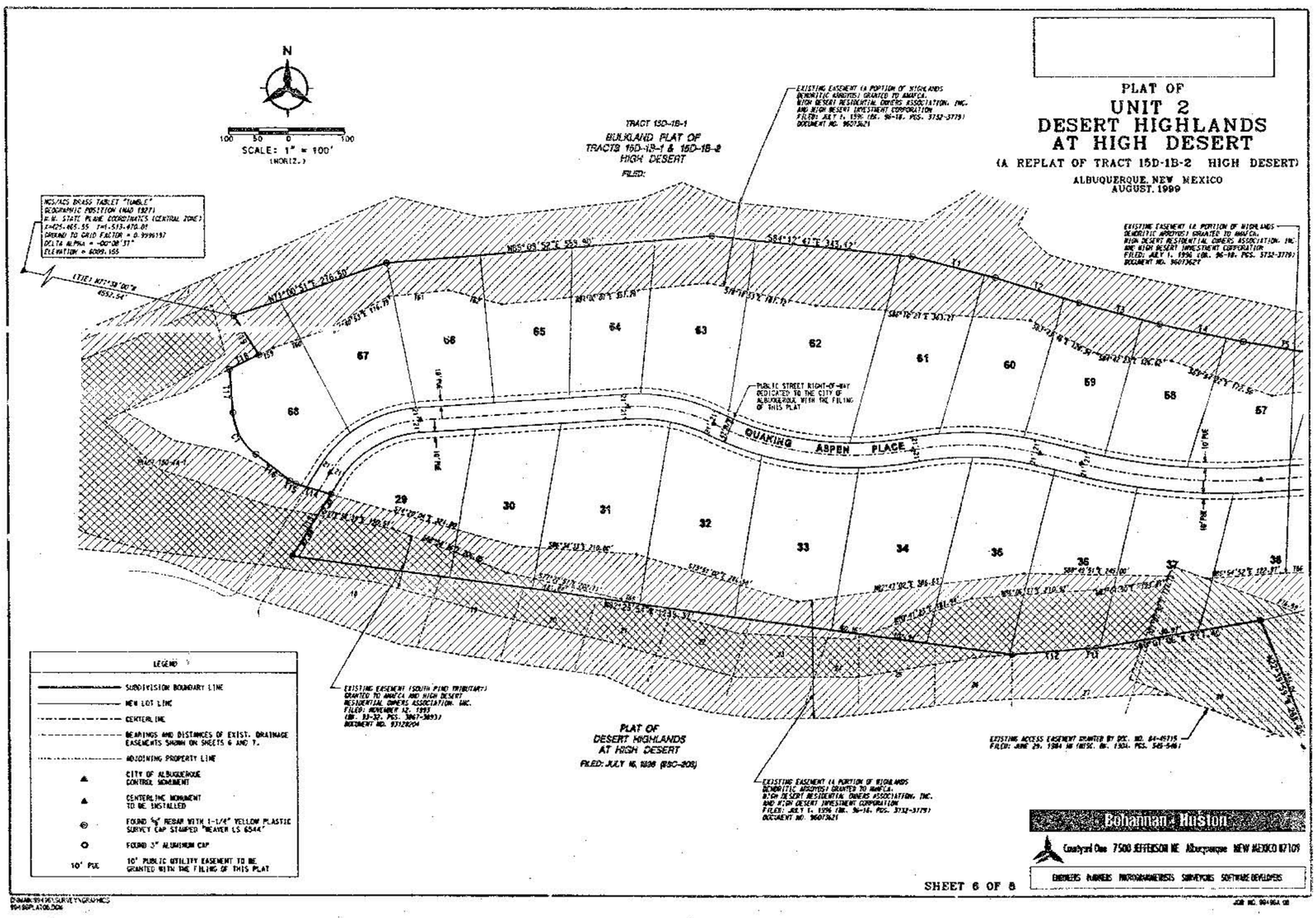

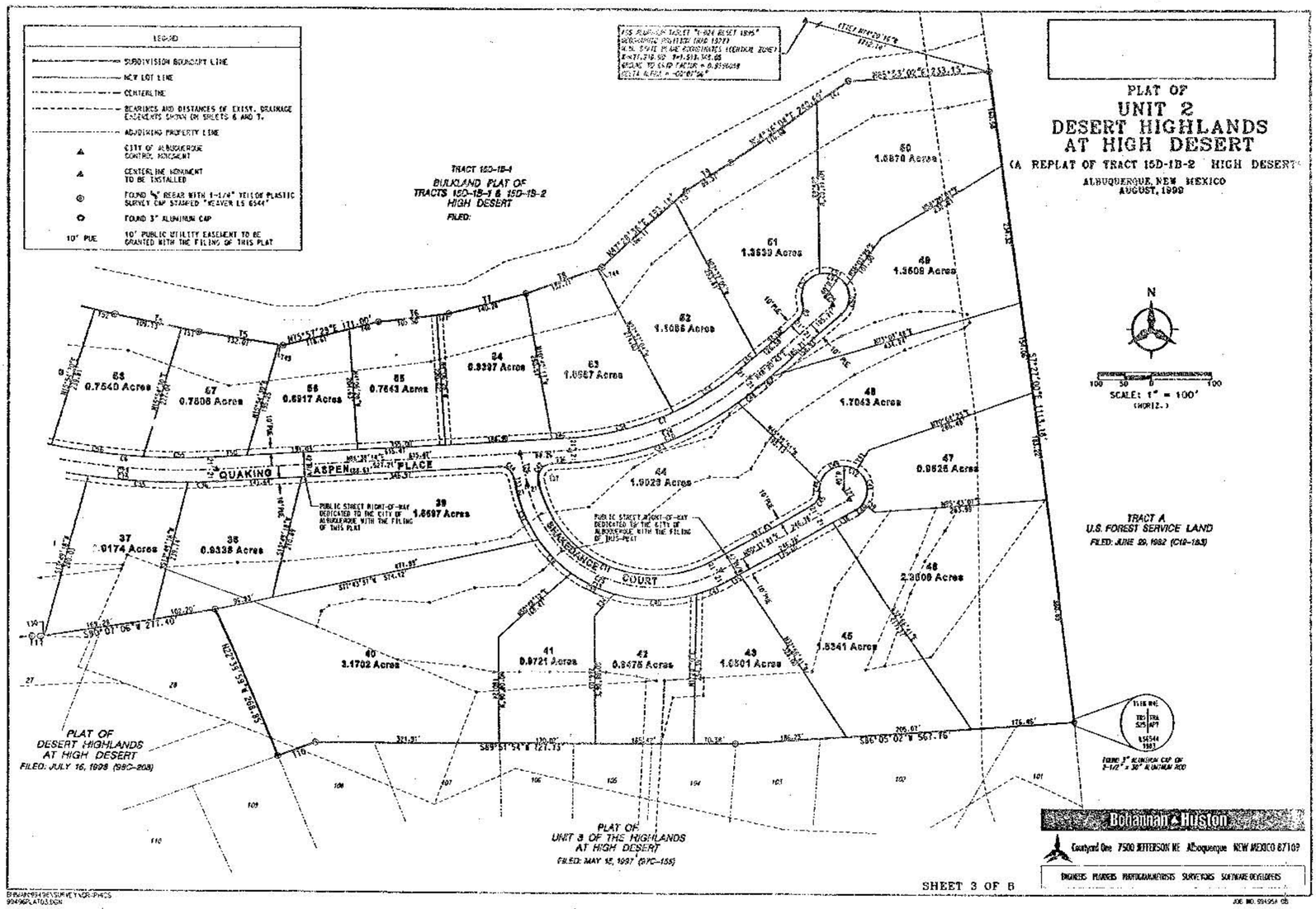

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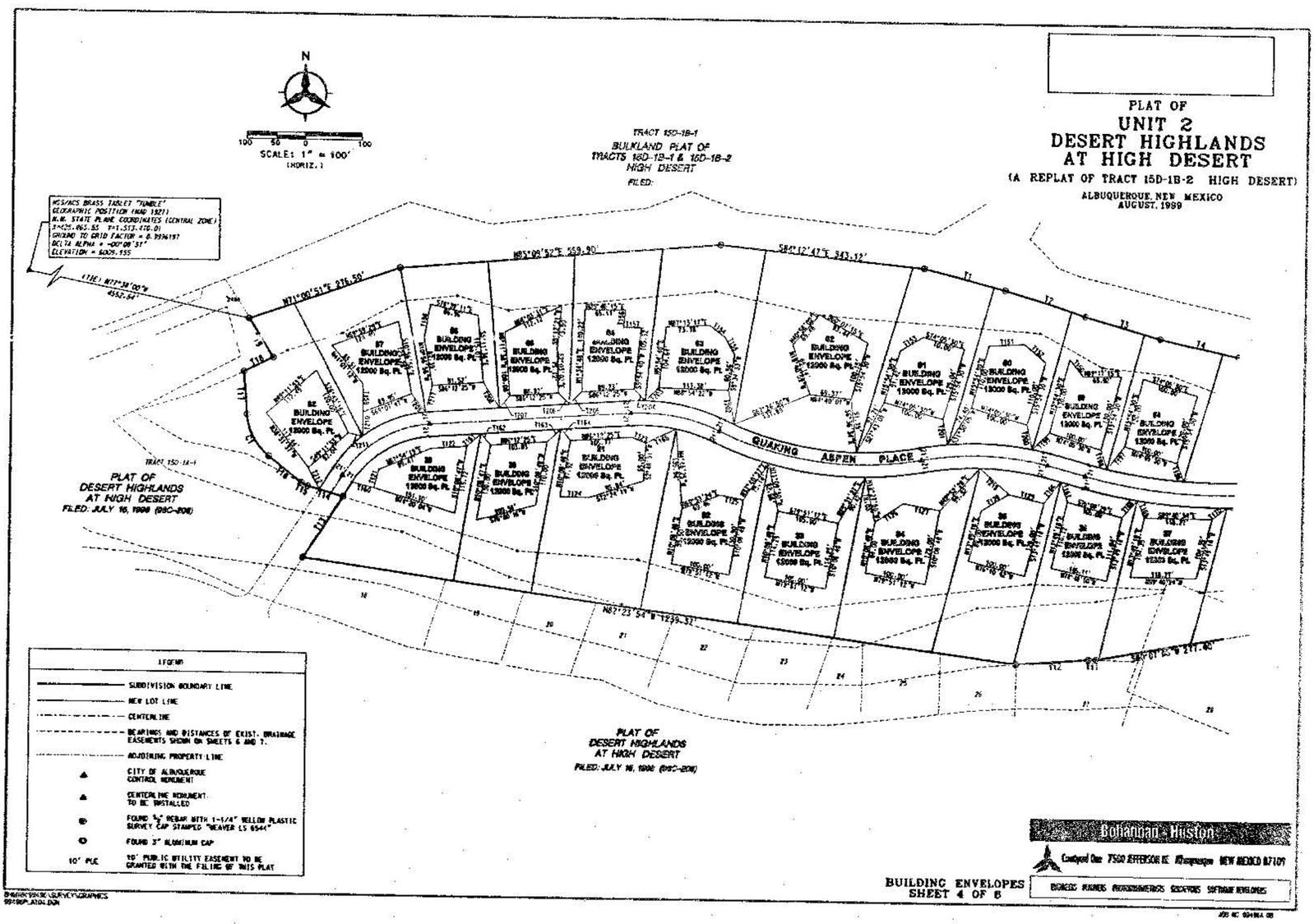

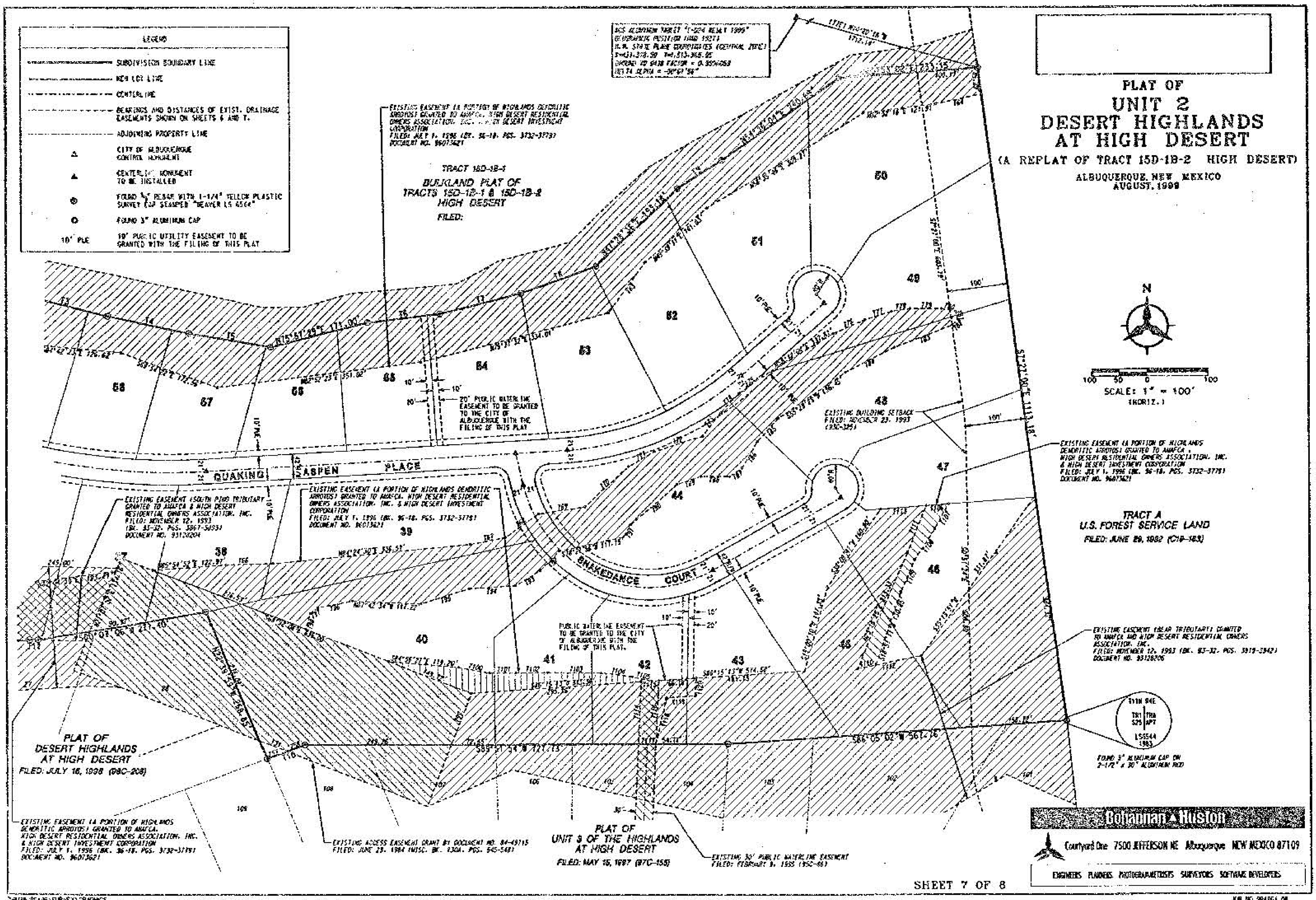

RECORD DRAWING

PLAT OF
UNIT 2
DESERT HIGHLANDS
AT HIGH DESERT
(A REPLAT OF TRACT 15D-1B-2 HIGH DESERT)
ALBUQUERQUE, NEW MEXICO
AUGUST, 1999

TANGENT DATA

No.	BEARING	DISTANCE	No.	BEARING	DISTANCE	No.	BEARING	DISTANCE
T1	S 15°34'09" E	141.77	T101	N 89°15'33" E	46.25	T201	S 11°06'18" E	45.38
T2	S 13°21'22" E	147.85	T102	N 89°36'52" E	54.05	T202	S 10°12'56" E	59.07
T3	S 15°09'54" E	143.25	T103	S 89°44'56" E	91.09	T203	S 45°00'41" W	31.71
T4	S 17°45'57" E	137.56	T104	S 82°45'33" E	52.64	T204	S 42°28'06" E	26.75
T5	S 80°33'12" E	139.64	T105	S 77°11'41" E	33.64	T205	S 43°55'36" W	29.71
T6	N 83°05'28" E	125.54	T106	N 85°43'07" E	37.95	T206	S 46°06'23" E	27.05
T7	N 75°42'56" E	140.28	T107	S 29°21'21" W	47.84	T207	S 42°30'23" W	27.94
T8	N 11°05'08" E	140.56	T108	S 32°13'44" W	61.80	T208	S 33°54'52" E	52.02
T9	N 57°23'48" E	89.37	T109	S 22°37'11" W	59.10	T209	S 40°41'39" E	40.31
T10	S 69°41'44" W	68.13	T110	S 78°17'10" W	32.18	T210	S 0°21'14" W	41.16
T11	N 88°51'42" W	13.40	T111	N 20°57'04" E	85.81	T211	S 18°44'36" E	26.10
T12	S 85°29'22" W	129.07	T112	S 78°17'10" W	108.81	T212	S 27°29'23" E	41.13
T13	N 33°25'35" E	125.56	T113	S 85°43'07" W	74.57	T213	S 51°37'53" W	74.89
T14	N 14°20'04" W	64.38	T114	N 3°03'28" E	105.65	T214	N 33°08'54" E	64.46
T15	N 63°01'26" W	12.09	T115	N 86°15'13" E	30.21	T215	N 49°28'32" E	67.16
T16	N 51°55'01" W	71.98	T116	S 3°03'28" W	107.55	T216	S 48°44'07" E	28.41
T17	N 4°15'06" W	73.60	T117	S 89°51'54" W	30.05	T217	S 14°01'25" E	41.31
T18	N 63°25'24" E	54.35	T118	N 14°05'45" E	80.70	T218	S 42°19'40" E	36.71
T19	N 31°40'39" W	77.49	T119	N 86°15'14" E	52.04			
T20	N 33°25'35" E	43.06	T120	N 1°20'10" E	30.12			
T21	S 31°25'35" W	29.61	T121	N 15°39'56" E	32.60			
T22	N 74°20'04" W	22.05	T122	N 86°12'25" E	65.06			
T23	N 74°20'04" W	22.05	T123	S 66°24'55" E	23.74			
T24	N 33°25'35" E	36.33	T124	S 90°00'00" W	50.00			
T25	N 41°38'17" W	19.00	T125	S 79°51'12" E	40.00			
T26	S 15°21'47" E	55.36	T126	N 56°08'48" E	56.57			
T27	N 29°42'19" W	19.00	T127	S 79°51'12" E	60.00			
T28	S 16°08'29" E	29.72	T128	N 58°49'18" E	56.57			
T29	S 16°08'29" E	42.37	T129	S 76°10'42" E	60.00			
T30	S 80°07'06" W	5.91	T130	N 30°56'33" W	12.25			
T31	S 68°52'08" E	45.53	T131	N 72°04'19" E	39.49			
T32	[illegible]	[illegible]	T132	[illegible] 35°57'21" E	30.46			
T33	[illegible]	[illegible]	T133	S [illegible]°42'34" E	64.47			
T34	N 41°42'21" E	50.56	T134	N [illegible]°10'53" E	1.76			
T35	N 60°17'43" E	24.14	T135	N 89°51'54" E	57.25			
T36	N 86°38'14" E	33.44	T136	N 0°08'06" W	48.75			
T37	N 13°21'47" W	0.54	T137	N 86°15'13" E	62.71			
T38	N 60°17'41" E	52.10	T138	N 45°13'16" E	60.20			
T39	N 54°27'29" W	25.00	T139	S 29°42'20" E	60.00			
T40	N 48°20'44" E	26.78	T140	S 47°34'43" W	52.07			
T41	S 32°31'09" W	40.00	T141	S 32°48'40" E	54.82			
T42	N 54°36'04" E	64.01	T142	N 47°34'43" E	56.88			
T43	N 41°28'36" E	27.07	T143	S 85°43'06" E	65.56			
T44	N 11°05'08" E	1.85	T144	S 64°47'35" E	50.71			
T45	N 48°20'44" E	32.57	T145	N 68°03'22" E	50.00			
T46	S 86°36'14" E	30.51	T146	N 82°52'18" E	49.72			
T47	N 83°05'28" E	22.04	T147	N 27°37'06" E	36.56			
T48	N 75°57'29" E	52.40	T148	N 14°08'46" E	48.66			
T49	S 80°33'12" E	7.57	T149	N 80°52'15" E	38.59			
T50	S 86°34'14" E	56.03	T150	S 42°52'24" E	60.41			
T51	S 77°45'57" E	28.82	T151	N 86°34'25" E	41.42			
T52	S 75°08'54" E	31.10	T152	S 49°08'52" E	45.06			
T53	S 73°21'22" E	27.81	T153	N 57°38'44" E	34.77			
T54	S 75°34'09" E	28.04	T154	S 53°09'36" E	30.60			
T55	S 64°12'47" E	18.60	T155	N 28°40'56" E	30.04			
T56	N 14°20'04" E	20.29	T156	S 9°59'28" E	57.57			
T57	S 68°41'44" E	35.78	T157	N 49°49'15" E	47.97			
T58	S 68°41'44" E	32.35	T158	N 11°53'30" E	38.91			
T59	N 63°25'24" E	27.20	T159	N 0°57'00" E	32.46			
T60	N 71°54'26" E	100.86	T160	N 76°59'25" E	25.39			
T61	N 63°48'41" E	101.74	T161	N 48°10'38" E	32.46			
T62	N 75°27'16" E	83.51	T162	N 41°49'22" E	25.39			
T63	N 76°11'53" E	105.30	T163	N 48°10'37" E	33.23			
T64	N 78°11'51" E	76.65	T164	N 41°49'23" E	55.23			
T65	S 74°14'35" E	24.11	T165	N 63°24'28" E	47.38			
T66	N 88°18'55" E	78.68	T166	N 38°47'19" E	41.33			
T67	N 79°06'52" E	62.02	T167	N 19°51'24" E	36.07			
T68	N 54°41'20" E	68.90	T168	N 43°27'20" E	40.45			
T69	N 61°52'12" E	82.82	T169	N 24°23'54" E	32.33			
T70	N 48°45'25" E	102.81	T170	N 51°52'06" E	32.45			
T71	N 44°55'53" E	51.43	T171	N 68°41'01" E	50.43			
T72	N 13°00'33" E	88.18	T172	N 58°37'12" E	42.54			
T73	N 31°24'19" E	50.13	T173	N 58°01'45" E	53.19			
T74	N 42°52'44" E	44.75	T174	N 67°20'24" E	58.83			
T75	N 54°46'56" E	48.15	T175	N 18°18'34" E	43.81			
T76	N 37°27'48" E	60.91	T176	N 27°59'16" E	44.59			
T77	N 12°28'28" E	46.68	T177	N 48°31'57" E	29.91			
T78	N 81°15'14" E	30.81	T178	N 10°58'58" E	53.48			
T79	N 80°00'00" E	51.34	T179	N 72°08'20" E	31.64			
T80	S 18°41'24" E	23.85	T180	N 28°45'51" E	44.64			
T81	S 18°26'06" E	14.82	T181	N 61°03'18" E	49.07			
T82	S 45°00'00" E	13.25	T182	N 78°21'25" E	51.34			
T83	S 68°40'59" E	103.10	T183	N 76°56'41" E	63.51			
T84	S 83°36'06" E	94.23	T184	N 58°41'13" E	39.32			
T85	S 41°25'25" E	53.11	T185	N 68°26'49" E	45.85			
T86	S 30°04'07" E	51.43	T186	S 1°17'42" E	41.37			
T87	S 34°18'35" E	25.34	T187	S 83°56'18" E	51.57			
T88	S 90°00'00" E	46.85	T188	S 31°17'29" E	35.65			
T89	S 31°33'54" E	44.45	T189	S 57°43'22" E	34.32			
T90	S 50°21'21" E	126.48	T190	S 52°43'09" E	35.84			
T91	S 29°05'16" E	24.12	T191	S 42°16'11" E	28.60			
T92	S 45°00'00" E	46.38	T192	S 49°44'07" E	28.47			
T93	S 58°34'13" E	49.42	T193	S 51°16'21" E	34.56			
T94	S 86°38'01" E	78.78	T194	S 38°43'38" E	24.53			
T95	S 72°04'15" E	83.71	T195	S 48°17'36" E	37.34			
T96	S 18°41'24" E	59.12	T196	S 21°16'05" E	33.12			
T97	S 56°18'36" E	16.83	T197	S 39°04'35" E	50.83			
T98	S 15°56'43" E	21.54	T198	S 18°52'06" E	35.06			
T99	S 21°07'52" E	40.73	T199	S 45°19'09" E	40.73			
T100	S 79°33'45" E	52.0	T200	S 11°57'59" E	42.79			

CURVE DATA

No.	DELTA	TANGENT	ARC	RADIUS	CHORD	CHORD BRG
C1	47°29'55"	43.55	82.03	98.60	79.68	N 28°06'03" W
C2	52°46'50"	109.66	203.53	221.00	196.46	N 59°49'00" E
C3	29°13'09"	83.67	163.70	321.00	161.93	S 75°11'06" E
C4	36°11'23"	172.85	334.13	529.00	328.61	S 82°40'08" E
C5	24°37'20"	113.70	225.90	521.00	222.18	S 88°27'09" E
C6	17°13'18"	148.25	294.26	979.00	293.15	S 84°45'07" E
C7	38°17'31"	166.30	320.13	479.00	314.20	N 67°29'28" E
C8	65°27'23"	16.07	28.56	25.00	27.03	N 15°37'01" E
C9	245°27'23"	----------	171.36	40.00	67.30	S 74°22'59" E
C10	38°17'31"	180.88	348.19	521.00	341.75	S 67°29'28" W
C11	106°20'33"	212.41	378.63	204.00	326.56	S 65°32'03" E
C12	245°27'24"	----------	171.36	40.00	1.00	S 62°26'01" E
C13	106°20'33"	326.45	456.58	246.00	393.41	N 66°32'03" W
C14	80°00'00"	20.98	34.91	25.00	32.14	N 53°21'46" W
C15	17°13'18"	154.61	306.88	1021.00	305.73	N 84°45'07" W
C16	24°37'20"	104.54	205.85	479.00	204.27	N 88°27'09" W
C17	36°11'23"	186.57	360.66	571.00	354.69	N 82°40'08" W
C18	29°13'09"	72.72	142.28	279.00	140.75	N 75°11'00" W
C19	52°46'50"	99.29	184.24	200.00	177.79	N 59°49'00" E
C20	29°13'09"	78.25	152.99	300.00	151.34	S 75°11'00" E
C21	36°11'23"	179.71	347.45	550.00	341.65	S 82°40'08" E
C22	24°37'20"	109.12	214.87	500.00	213.22	S 88°27'09" E
C23	17°13'18"	151.43	300.57	1000.00	299.44	S 84°45'07" E
C24	38°17'31"	173.59	334.16	500.00	327.98	N 67°29'28" E
C25	106°20'33"	300.45	417.61	225.00	360.19	S 66°32'03" E
C26	52°46'50"	88.62	164.69	179.00	159.42	N 59°49'00" E
C27	15°00'24"	36.75	73.07	279.00	72.87	S 86°17'23" E
C28	14°12'44"	34.78	69.21	279.00	69.03	S 71°40'48" E
C29	9°52'22"	49.32	98.39	571.00	98.27	S 69°30'37" E
C30	16°36'11"	83.48	165.40	571.00	165.21	S 82°45'54" E
C31	9°40'50"	48.35	96.48	571.00	96.36	N 84°04'36" E
C32	11°13'47"	41.44	94.58	479.00	94.43	N 84°53'35" E
C33	13°14'33"	55.88	111.27	479.00	111.02	S 62°47'45" E
C34	5°46'09"	51.45	102.80	1021.00	102.76	S 79°01'33" E
C35	8°50'43"	78.97	157.62	1021.00	157.47	S 86°19'59" E
C36	2°36'25"	23.25	46.46	1021.00	46.45	N 87°56'26" E
C37	22°43'47"	49.45	97.59	246.00	96.95	S 24°43'40" E
C38	19°01'04"	41.21	81.65	246.00	81.28	S 45°36'06" E
C39	19°00'11"	41.17	81.59	246.00	81.22	S 64°36'43" E
C40	32°38'46"	72.08	140.24	246.00	138.35	N 89°23'14" E
C41	12°55'45"	27.87	55.51	246.00	55.39	N 66°45'32" E
C42	106°30'09"	33.73	46.63	25.00	40.30	S 36°58'14" W
C43	33°32'20"	157.00	304.98	521.00	300.64	N 69°52'04" E
C44	21°23'56"	7.56	14.94	40.00	14.85	S 3°32'16" W
C45	65°27'23"	16.07	28.56	25.00	27.03	S 27°35'59" W
C46	24°45'10"	8.78	17.28	40.00	17.15	N 47°55'36" E
C47	93°01'22"	42.17	64.94	40.00	58.04	N 10°58'10" E
C48	4°45'11"	21.62	43.22	521.00	43.21	N 50°43'16" E
C49	106°15'55"	53.35	74.20	40.00	64.01	S 59°22'42" E
C50	77°03'30"	31.85	53.80	40.00	49.83	S 9°48'58" E
C51	74°16'11"	30.29	51.85	40.00	48.30	N 65°58'53" W
C52	94°07'42"	42.89	65.71	40.00	58.51	S 29°57'11" E
C53	16°23'27"	69.41	137.07	479.00	137.39	S 58°35'26" W
C54	21°48'04"	92.25	182.26	479.00	181.16	S 75°44'12" W
C55	6°51'53"	58.72	117.30	975.00	117.23	N 89°55'50" W
C56	8°17'12"	70.62	141.05	975.00	141.47	N 82°21'11" W
C57	2°04'13"	17.63	35.31	975.00	35.37	N 77°10'35" W
C58	3°35'52"	16.36	32.72	521.00	32.71	N 77°56'25" E
C59	15°53'27"	72.72	144.50	521.00	144.03	N 87°41'04" E
C60	5°08'02"	23.36	46.68	521.00	46.67	S 81°48'12" E
C61	11°18'10"	52.43	104.51	529.00	104.34	S 84°53'46" E
C62	23°04'34"	108.00	213.01	529.00	211.63	N 77°54'20" E
C63	1°41'35"	8.78	16.55	529.00	16.55	S 65°28'13" W
C64	24°51'35"	71.08	139.84	321.00	138.73	N 77°03'14" E
C65	4°15'34"	11.94	23.86	321.00	23.86	S 88°20'12" W
C66	1°44'14"	3.35	6.76	221.00	6.76	S 88°20'16" W
C67	31°36'27"	61.51	119.99	221.00	118.52	S 68°54'58" W
C68	19°56'08"	38.84	76.90	221.00	76.51	S 43°23'40" W

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SHEET 8 OF 8

JOB NO. 994964 08

GENERAL NOTES:

1. WHEN CONFLICTS EXIST BETWEEN THE "STANDARD SPECIFICATION" AND THE "PLANS" ("PLANS" SHALL MEAN THE SHEETS NUMBERED 1 OF 21 THROUGH 21 OF 21 ENTITLED "CONSTRUCTION PLANS FOR DESERT HIGHLANDS AT HIGH DESERT, UNIT 2"), THE CONSTRUCTION OBSERVER SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION. IN GENERAL, THE PLANS SHALL GOVERN.

2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS GOVERNING CONSTRUCTION SAFETY AND HEALTH.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.

6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE, ALL EXISTING UTILITIES.

7. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE ITS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. THE CONTRACTOR SHALL AT ALL TIMES TRY TO MINIMIZE THE DISTURBANCE TO THE EXISTING VEGETATION. CONTRACTOR SHALL ERECT TEMPORARY FENCE USING 5' T POST AT 25' ON CENTER. INSTALL ONE STRAND OF SMOOTH WIRE ON TOP OF POSTS WITH FLAGGING PLACED ALONG WIRE. CONTRACTOR SHALL CONFINE WORK AREA WITHIN LIMITS OF FENCING. CONTRACTOR SHALL CONTINUALLY MAINTAIN.

8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)

9. ALL TRENCHES AND EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED ACCORDING TO OSHA CONSTRUCTION SAFETY AND HEALTH STANDARDS. JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR

10. BLASTING USING EXPLOSIVES SHALL NOT BE PERMITTED. THE USE OF OTHER TECHNIQUES SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER AND THE CITY OF ALBUQUERQUE.

11. CONTRACTOR SHALL OBTAIN A COPY OF SOILS REPORT FROM THE CONSTRUCTION OBSERVER PRIOR TO BEGINNING CONSTRUCTION.

12. ALL STATIONING IS BASED ON STREET CENTERLINE, UNLESS OTHERWISE NOTED.

13. CONTRACTOR SHALL COORDINATE WITH PNM, ELECTRIC & GAS AND JONES INTERCABLE FOR THE INSTALLATION OF THEIR FACILITIES. CONTRACTOR SHALL SCHEDULE THOSE UTILITIES SO AS TO ALLOW WORK TO PROCEED IN A TIMELY MANNER BY THE CONTRACTOR AND THE UTILITY FIRMS.

14. IF THE CONTRACTOR DOES NOT CONFINE ITS WORK WITHIN THE CONSTRUCTION LIMITS, THE CONTRACTOR SHALL PROVIDE BARRICADING AND/OR LANDSCAPE ALL AREAS DISTURBED AT THE CONTRACTOR EXPENSE (SEE NOTE 7 ABOVE.)

WATERLINE REQUIREMENTS:

1. TEMPORARY WATERLINE CONNECTION FOR CONSTRUCTION PURPOSES SHALL BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CITY OF ALBUQUERQUE FOR USE OF EXISTING FIRE HYDRANTS FOR CONSTRUCTION WATER. THE COST OF PERMITS, METERS AND WATER USAGE SHALL BE INCIDENTAL TO OTHER BID ITEMS. THE FIRE HYDRANTS WITHIN THE DESERT HIGHLANDS SUBDIVISION MAY NOT BE USED FOR CONSTRUCTION WATER. CONTRACTOR SHALL ADVISE HIGH DESERT INVESTMENT CORPORATION OF WHICH HYDRANTS THEY PREFER TO USE FOR CONSTRUCTION WATER PRIOR TO OBTAINING PERMITS FROM THE CITY OF ALBUQUERQUE.

CONSTRUCTION SIGNING: UNLESS GOVERNED BY A SPECIFIC PLAN, THE FOLLOWING NOTES APPLY:

A. ALL BARRICADES AND SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST DIVISION EDITION.

B. CONTRACTOR SHALL PREPARE A CONSTRUCTION SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC DIVISION, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

C. CONTRACTORS SHALL MAINTAIN ALL BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.

SPECIAL NOTES FOR CONTRACTOR - CORPS 404 PERMIT REQUIREMENTS:

THE FOLLOWING CONDITIONS WERE PLACED ON THE PROJECT BY THE CORP OF ENGINEERS, SECTION 404, NATIONWIDE PERMIT:

1. AVOID DISTURBANCE TO THE GRAMA GRASS CACTUS WHEREVER POSSIBLE.

2. PROTECT FISH AND WILDLIFE PERSOURCES

A. STORE FUELS, LUBRICANTS, HYDRAULIC FLUIDS AND OTHER PETROCHEMICALS OUTSIDE THE 100-YEAR FLOODPLAIN.
B. INSPECT CONSTRUCTION EQUIPMENT DAILY TO ENSURE THAT NO LEAKS OR DISCHARGES OR LUBRICANTS, HYDRAULIC FLUIDS OR FUELS OCCUR IN THE AQUATIC OR RIPARIAN ECOSYSTEM, AND
C. CONTAIN PETROCHEMICAL SPILLS, INCLUDING CONTAMINATED SOIL, AND DISPOSE AT AN UPLAND COMPLETE.

3. CONSTRUCTION WITHIN 200 FEET OF ARCHEOLOGICAL SITES ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES (LA 86078, LA 86079, LA 99727) WILL NOT BEGIN UNTIL AFTER THE CORPS HAS NOTIFIED YOU THAT COORDINATION WITH THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER IS COMPLETE.

4. THE CORPS WILL BE NOTIFIED IMMEDIATELY IF ANY PREVIOUSLY UNDISCOVERED CULTURAL RESOURCES ARE ENCOUNTERED DURING ANY CONSTRUCTION OPERATIONS. CONSTRUCTION WILL CEASE IN THE IMMEDIATE VICINITY OF THE RESOURCE UNTIL THE SIGNIFICANCE AND DISPOSITION OF THE RESOURCE HAS BEEN EVALUATED IN ACCORDANCE WITH CODE OF FEDERAL REGULATIONS 36 (CFR) 800.11.

MISCELLANEOUS NOTES:

1. ALL BOULDERS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PRESERVED AND STOCK PILED BY CONTRACTOR AT A LOCATION, ON SITE DETERMINED BY OWNER

2. CONTRACTOR SHALL MAINTAIN IN PLACE, AT ALL TIMES, ALL EXISTING AND TEMPORARY FENCES ON SITE.

3. CONTRACTOR SHALL PROTECT ALL TREES, WHICH THE OWNER REQUESTS TO BE SAVED, FROM DAMAGE WITH TEMPORARY FENCING.

RECLAMATION NOTES:

1. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED BY OWNER.

2. WORK AREAS SHALL BE LIMITED TO DESIGNATED ROAD RIGHT-OF-WAY AND EASEMENTS AS SHOWN ON THE PLANS. WORK OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENTS IN HIGH DESERT PROPERTY IS NOT ALLOWED WITHOUT WRITTEN CONSENT FROM HIGH DESERT INVESTMENT CORPORATION.

CONSTRUCTION ACCESS:

1. THE DESERT HIGHLANDS SUBDIVISION - UNIT 2 CONTRACTOR SHALL TAKE ACCESS ONLY FROM THE ACADEMY/TRAMWAY OR SPAIN/TRAMWAY INTERSECTIONS ACCESS THROUGH THE HIGH DESERT DEVELOPMENT MUST BE COORDINATED AND APPROVED BY THE HIGH DESERT INVESTMENT CORP. DIRECT ACCESS INTO THE DESERT HIGHLANDS PROJECT MAY BE TAKEN ONLY FROM PINO CANYON PLACE.

EXISTING UTILITIES

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH LOCAL UTILITIES, ENGINEERING OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS PROVIDED TO OR OBTAINED BY THE ENGINEER IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROJECT MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THIS CONTRACTOR. WHERE ADDITIONAL LINES AN/OR DIFFERING LOCATIONS ARE ENCOUNTERED. THIS CONTRACTOR SHALL REQUEST THAT THE ENGINEER MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. GAS COMPANY, PNM, US WEST AND/OR CABLE TV SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF THEIR EXISTING LINES. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED TO CLEAR CONSTRUCTION (IF ACTIVE) AND BE REMOVED (IF INACTIVE) BY THIS CONTRACTOR UNDER THIS CONTRACT. ALL BIDDERS ARE CAUTIONED OT INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. ALL EXISTING PIPING SHALL HAVE A MINIMUM EARTH COVERAGE AND DEPTHS SHALL BE ADJUSTED AS REQUIRED TO PROVED MINIMUM COVERAGE DUE TO NEW GRADES OR CONSTRUCTION. CONTRACTOR SHALL PAY FOR ANY AND ALL COSTS OF PERMITS, LINE EXTENSIONS, FIRELINES, METER INSTALLATION, ETC., AS REQUIRED BY LOCAL GOVERNING UTILITIES ENGINEERING OFFICIALS.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY. THIS MAY BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE CONSTRUCTION LIMITS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.

3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. THE COST OF REQUIRED EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT COST.

4. DURING THE MONTH OF JULY, AUGUST, OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT OF A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND THE SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.

SANITARY SEWER REQUIREMTENTS

1. THE CONTRACTOR SHALL EXCAVATE THE SANITARY SEWER SERVICES BY STARTING AT THE PLUG AND EXCAVATING BACK TO THE MAIN LINE SO AS TO MINIMIZE DISTURBANCE TO THE SURROUNDING VEGETATION.

⚠

RECORD DRAWING

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS LANDSCAPE ARCHITECTS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 – DESERT HIGHLANDS AT HIGH DESERT

GENERAL NOTES

DESIGN REVIEW COMM. FILE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	3	21

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RECORD DRAWING

N

SCALE: 1" = 60'
(HORIZ.)

EXISTING AMAFCA EASEMENT

FUTURE DEVELOPMENT TRACT 160-15-1

PROPOSED BUILDING ENVELOPE (TYPICAL)

PROPOSED LOT LINE (TYPICAL)

QUAKING ASPEN PLACE

LIMITS OF ROADWAY GRADING

EXISTING DETENTION POND (TRACT 160-14)

EXISTING BRIDGE FOR CROSSING ARROYO

EXISTING AMAFCA EASEMENT (EROSION SETBACK LINE)

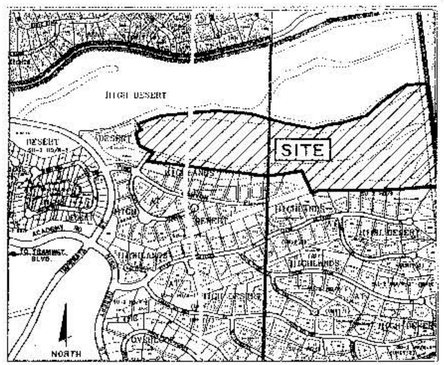
EXISTING FLOODWAY AND STORM DRAINAGE ESMT. (DIVERSION DIKE)

PROPOSED FEMA FLOOD PLAIN

UNIT 1 OF DESERT HIGHLANDS TRACT 160-1A

NOTE:
SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

NOTE:
ALL TIE-BACKS ARE 5:1 UNLESS OTHERWISE NOTED



SITE LOCATION MAP (E-23/24)
NO SCALE

LEGEND

PROPOSED SPOT	●
EXISTING SPOT	○
AMAFCA EASEMENT	
LIMITS OF GRADING	
EXISTING CONTOUR	
FEMA FLOOD PLAIN	
FLOW DIRECTION ARROW	

UNIT 2 OF THE DESERT HIGHLANDS AT HIGH DESERT

LOT #	MINIMUM FINISHED FLOOR ELEVATION ALLOWED (FT)	ADJUSTED MINIMUM F.F. ELEV. ALLOWED (FT)
29	6181.00	6179.00
30	6187.00	6184.00
31	6194.00	6193.00
32	6210.00	6209.00
33	6211.00	6208.00
34	6215.00	6215.00
35	6224.00	6223.00
36	6233.00	6229.00
37	6241.00	6239.00

APPROVED FOR ROUGH GRADING — 9-29-99 — DATE

AS-BUILT INFORMATION

CONTRACTOR

WORK STAKED BY

INSPECTOR'S ACCEPTANCE BY — DATE

FIELD VERIFICATION BY — DATE

DRAWINGS CORRECTED BY — DATE

RECORDED BY — DATE

NO. — DATE

BENCH MARKS

STATION IS A STANDARD UGC & GS BRASS GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUNBLE 1969" SET IN CONCRETE PROJECTING 0.2 FEET ABOVE GROUND. LOCATED 489 FEET WEST OF INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR., ELEV. = 6009.155

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

KEVIN G. PATTON — NEW MEXICO — 10815 — 6/18/99

REVISIONS

NO.	DATE	REMARKS	BY
2	6/18/00	RECORD DRAWING	CGC
1	5-23-00	REVISED FINISHED FLOOR ELEVATION TABLE	KGP

DESIGN

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 DESERT HIGHLANDS AT HIGH DESERT

OVERALL GRADING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
—	—			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	4	21

P:\99496\CD\GENERAL\99496GP01.DGN

BHI JOB NO. 99496A05

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DATE: DECEMBER, 1998

N

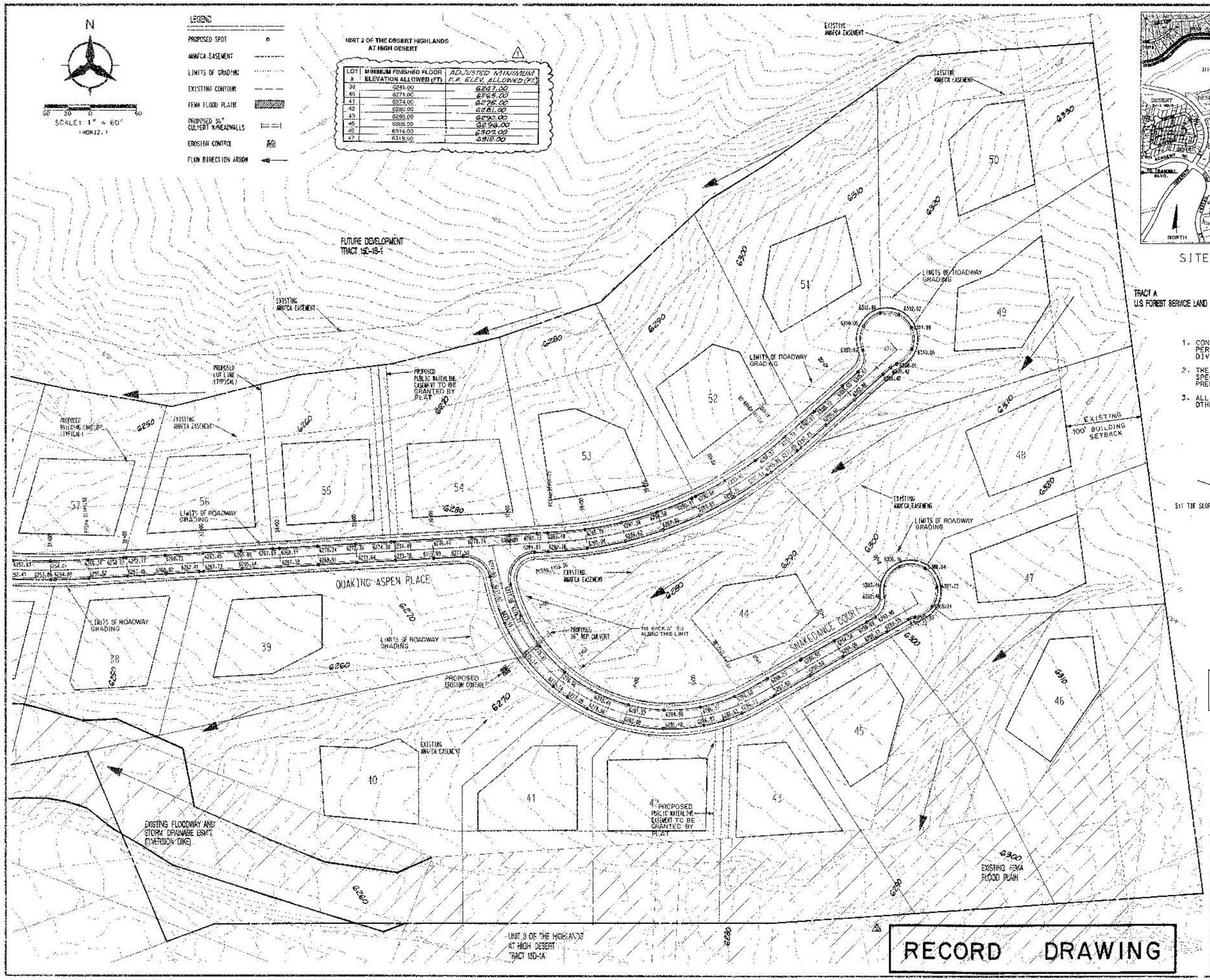
SCALE: 1" = 60'
(HORIZ.)

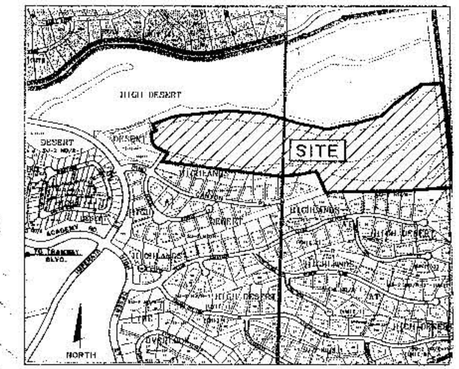
LEGEND

- PROPOSED SPOT
- AMAFCA EASEMENT
- LIMITS OF GRADING
- EXISTING CONTOUR
- FEMA FLOOD PLAIN
- PROPOSED 36" CULVERT W/HEADWALLS
- EROSION CONTROL
- FLOW DIRECTION ARROW

UNIT 2 OF THE DESERT HIGHLANDS AT HIGH DESERT

LOT #	MINIMUM FINISHED FLOOR ELEVATION ALLOWED (FT)	ADJUSTED MINIMUM F.F. ELEV. ALLOWED (FT)
38	6245.00	6247.00
40	6271.00	6265.00
41	6274.00	6275.00
42	6280.00	6281.00
43	6280.00	6290.00
45	6308.00	6298.00
46	6314.00	6307.00
47	6319.00	6312.00

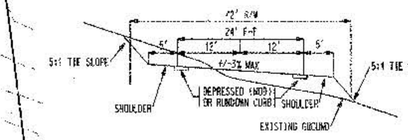




SITE LOCATION MAP (E-23/24)
NO SCALE

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORTS PREPARED BY GEO-TEST. DATED FEBRUARY, 1998.
3. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.



'TYPICAL STREET SECTION'
NOT TO SCALE

NOTE:
ALL TIE-BACKS ARE 5:1 UNLESS OTHERWISE NOTED.

APPROVED FOR ROUGH GRADING — DATE 9-29-99

NOTE:
SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

NO.	DATE	REMARKS	BY
1	3-23-00	REVISED FINISHED FLOOR ELEVATION TABLE	KGP
		REVISIONS	
		DESIGN	

ENGINEER'S SEAL

SURVEY INFORMATION

NO.	BY	DATE	FIELD NOTES
			GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FEET ABOVE GROUND. LOCATED 489 FEET WEST OF INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155

BENCH MARKS

STATION IS A STANDARD UCC & GS BRASS

CONTRACTOR		DATE
CIVIL ENGINEER		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
CERTIFICATION BY		DATE
COMPUTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

AS-BUILT INFORMATION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 DESERT HIGHLANDS AT HIGH DESERT

OVERALL GRADING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
—	—		

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	5	21

RECORD DRAWING

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BHI JOB NO. 99496A05

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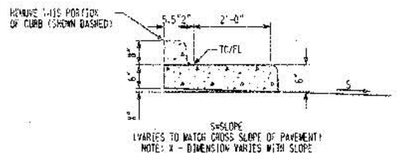
DATE: DECEMBER, 1998

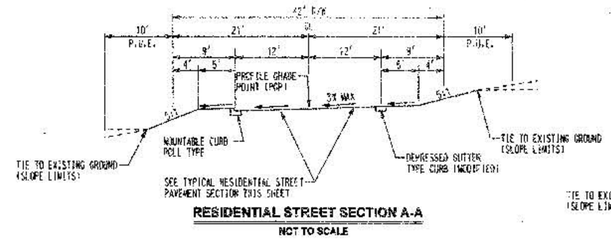
RECORD DRAWING

KEYED GENERAL NOTES

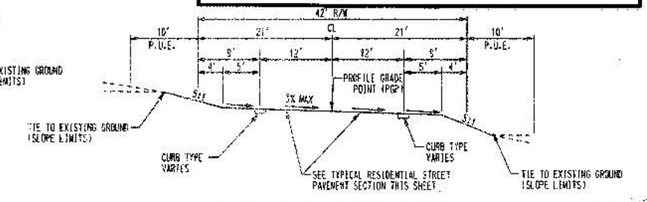
1. DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 6.
2. RUNDOWN CURB TYPE AS PER STD. DWG. 2415
3. MOUNTABLE CURB ROLL TYPE AS PER STD. DWG. 2415
4. DEPRESSED GUTTER TYPE AS PER STD. DWG. 2415



DEPRESSED GUTTER (MODIFIED)
NOT TO SCALE



RESIDENTIAL STREET SECTION A-A
NOT TO SCALE

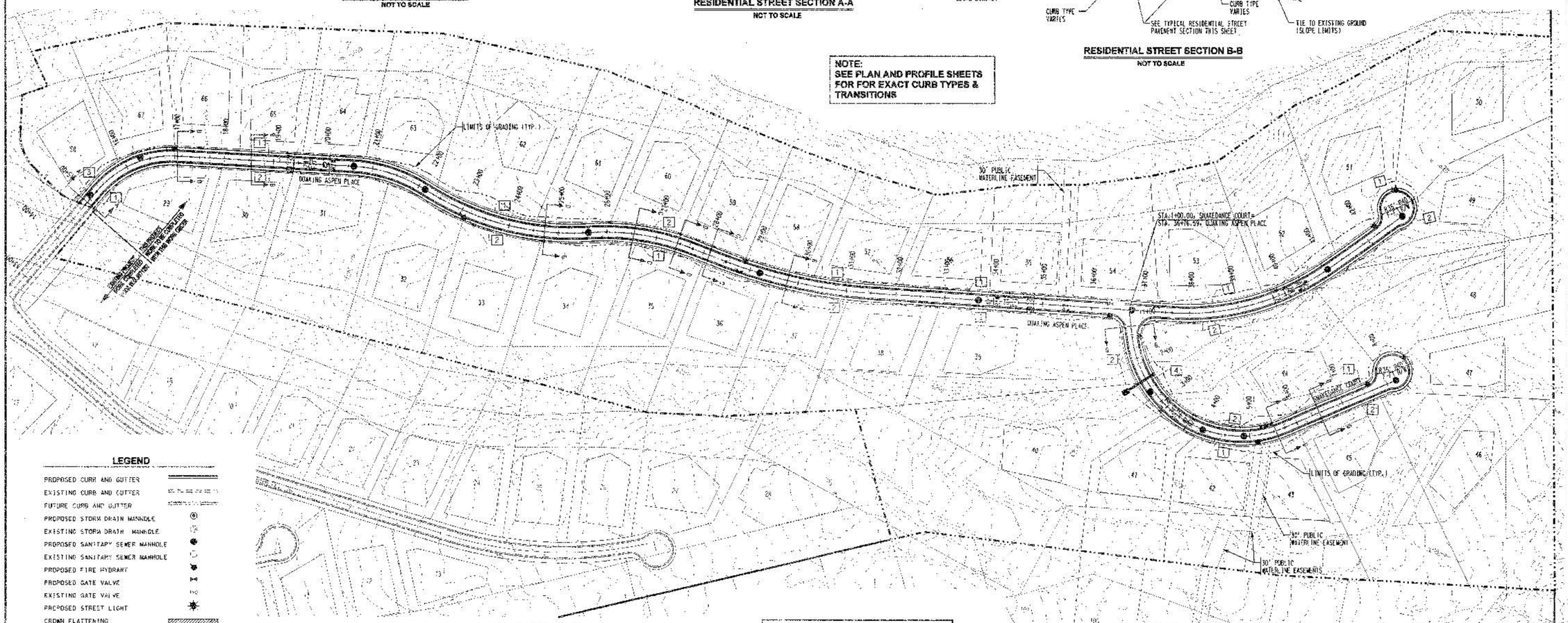


RESIDENTIAL STREET SECTION B-B
NOT TO SCALE

N

SCALE: 1" = 100' (HORIZ.)

NOTE:
SEE PLAN AND PROFILE SHEETS FOR FOR EXACT CURB TYPES & TRANSITIONS

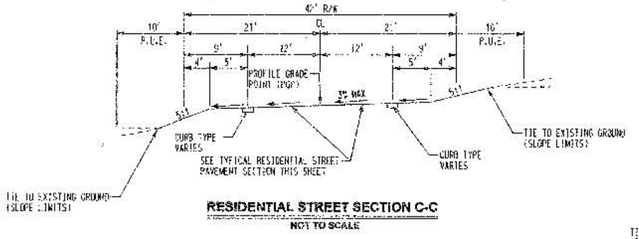


NOTE:
CONTRACTOR TO COORDINATE RESEEDING OF DISTURBED AREA W/OWNER. CONTRACTOR SHALL NOT DISTURB OUTSIDE THE GRADING LIMITS.

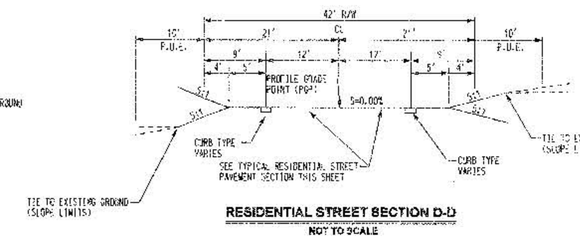
NOTE:
IF THE R-VALUE IS LESS THAN 50 THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AT 823-1000 FOR THE REVISED PAVEMENT SECTION.

LEGEND

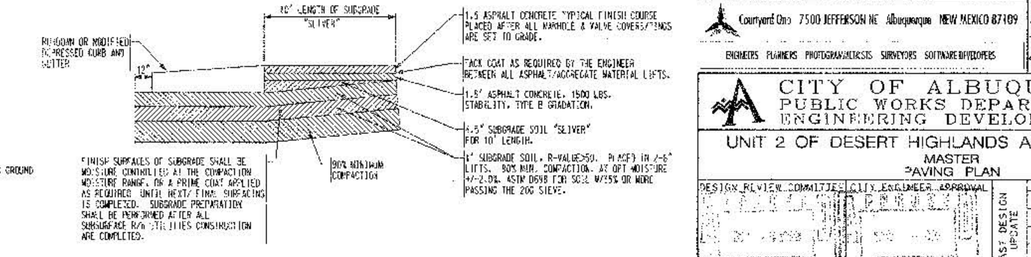
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- FUTURE CURB AND GUTTER
- PROPOSED STORM DRAIN MANHOLE
- EXISTING STORM DRAIN MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED STREET LIGHT
- CROWN FLATTENING



RESIDENTIAL STREET SECTION C-C
NOT TO SCALE



RESIDENTIAL STREET SECTION D-D
NOT TO SCALE



TYPICAL PAVEMENT SECTION
(REFER TO CAB STD. DWG. 2415)
NOT TO SCALE

BENCH MARKS

STATION IS A STANDARD UCGS BRASS GEOLOGICAL SURVEY BENCH MARK. TOP TABLET STAMPED "TUNGLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND. LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.755

AS-BUILT INFORMATION

CONTRACTOR: Universal Constructors

SURVEYED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
MAP CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY | DATE

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

ENGINEER'S SEAL

KEVIN G. PATTON — NEW MEXICO — 8/28/99

RECORD DRAWING

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	YGP	DATE 8/99
DRAWN BY	BG	DATE 8/99
CHECKED BY	KGP	DATE 8/99

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
MASTER PAVING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
DEVELOPMENT SUBCOMMITTEE	CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
62198'	E-23/24	6	21

BHI JOB NO. 99495A04

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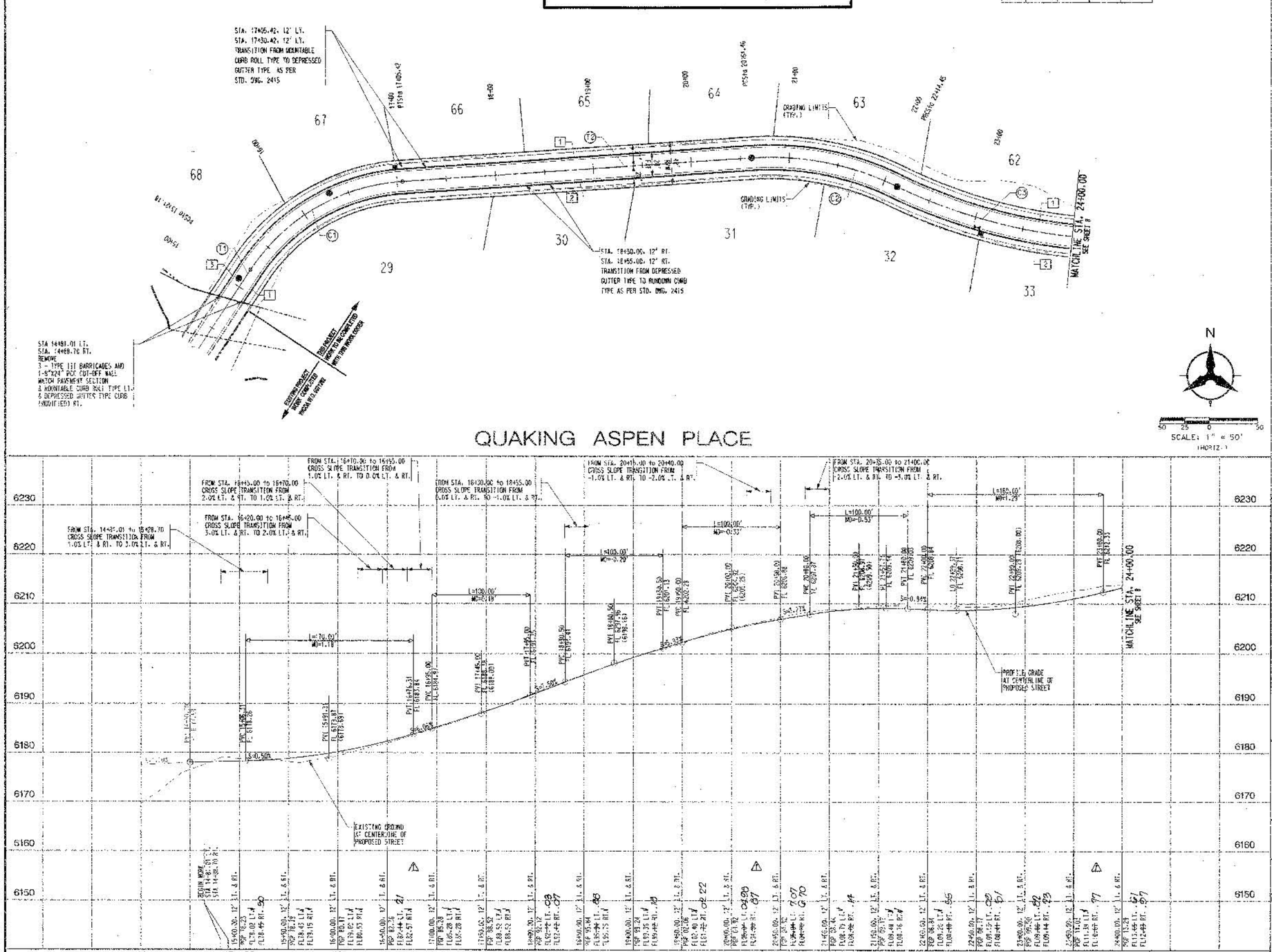
RECORD DRAWING

CENTERLINE CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	152°49'50"	99.24'	184.24'	200.00'
C2	29°13'08"	78.20'	152.99'	300.00'
C3	36°11'23"	179.71'	347.40'	550.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N33°25'35"E	36.32'
T2	N86°12'25"E	356.04'



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

KEYED GENERAL NOTES

1. DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 8.
2. RUNDOWN CURB TYPE AS PER STD. DWG. 2415
3. MOUNTABLE CURB ROLL TYPE AS PER STD. DWG. 2415
4. DEPRESSED GUTTER TYPE CURB AS PER STD. DWG. 2415

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., N.M.P.L.S. No. 14184 — 6-15-2000 Date

CHARLES G. CALA, JR. NEW MEXICO 14184 REGISTERED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

AS-BUILT INFORMATION
CONTRACTOR Universal Construction
WORK STAKED BY
ACCEPTANCE by Bill Echeverria DATE 7/26/99
FIELD VERIFICATION BY J.M.A. DATE 7/26/99
DRAWINGS CORRECTED BY J.M.A. DATE 8/3/99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
STATION IS A STANDARD USC&GS BRASS GEOLOGICAL SURVEY BENCH MARK. "TOP" TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE, PROJECTING 0.2 FT ABOVE GROUND. LOCATED 485 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 5009.195

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
KEVIN G. CALA, NEW MEXICO, 14184, PROFESSIONAL ENGINEER, 8/26/99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YCP DATE 8/99
DRAWN BY BG DATE 8/99
CHECKED BY KCP DATE 8/99

AS-BUILT & CERTIFY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
PAVING PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 621981 | ZONE MAP NO. E-23/24 | SHEET 7 OF 21

P:\99496\CDP\PNPM
99496PMP01.DGN

BHI JOB NO. 99496A06

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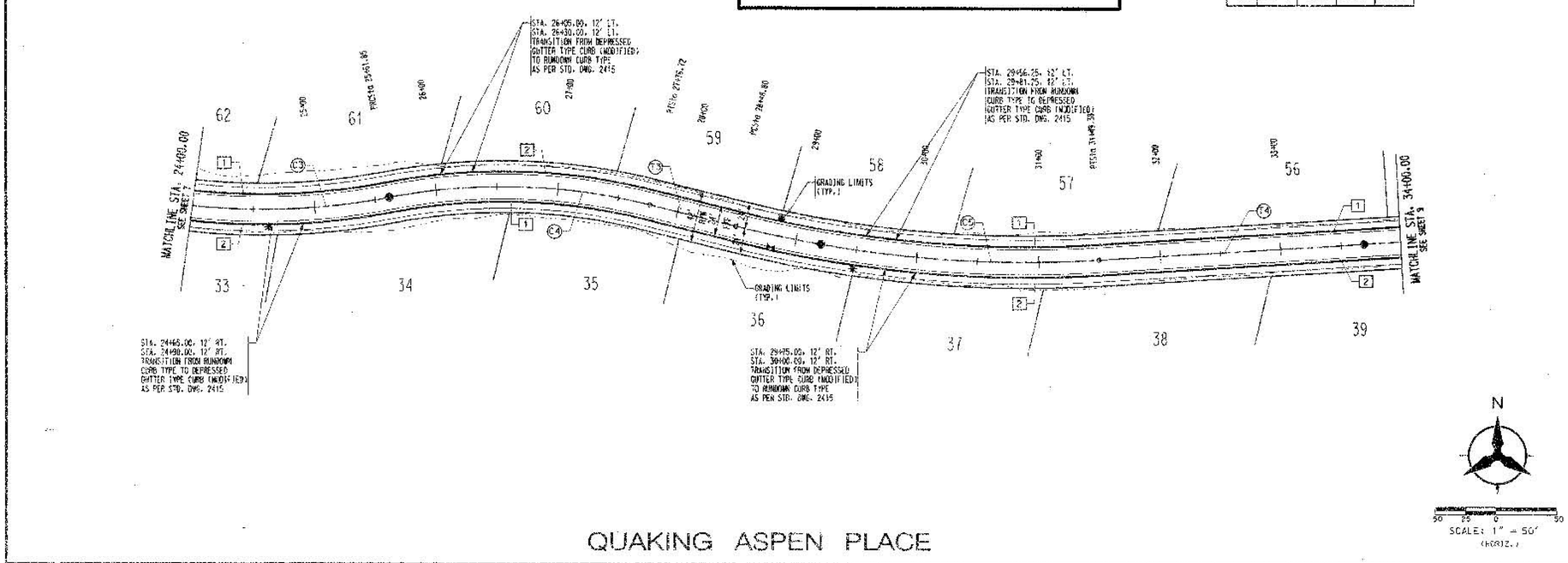
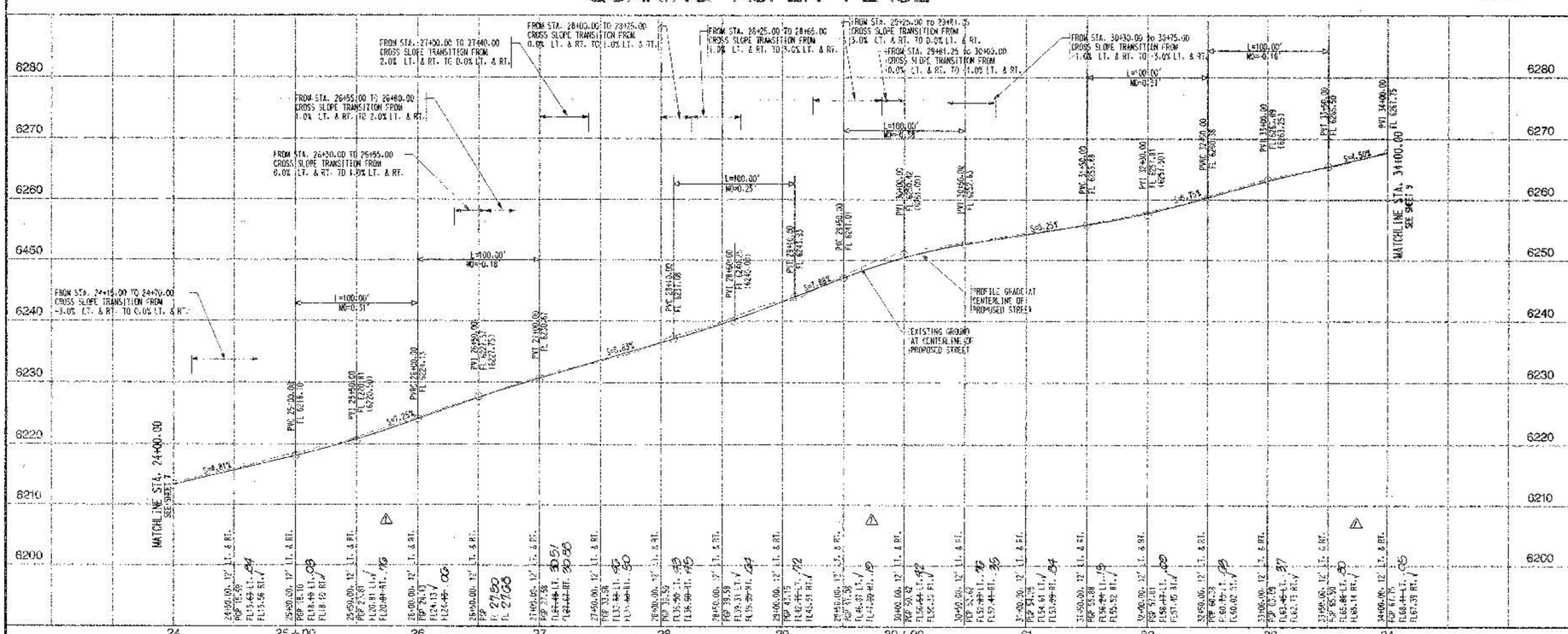
RECORD DRAWING

CENTERLINE CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C3	36°11'23"	176.71'	347.40'	550.00'
C4	24°37'20"	108.42'	214.87'	500.00'
C5	17°13'18"	151.43'	300.57'	1090.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T3	S76°08'29"E	72.09'
T4	N86°38'44"E	521.21'



QUAKING ASPEN PLACE



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EWD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

KEYED GENERAL NOTES

1. DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 6.
2. RUNDOWN CURB TYPE AS PER STD. DWG. 2415
3. MOUNTABLE CURB ROLL TYPE AS PER STD. DWG. 2415
4. DEPRESSED GUTTER TYPE CURB AS PER STD. DWG. 2415

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NM PLS No. 11194 — Date 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 11194 REGISTERED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

AS-BUILT INFORMATION

CONTRACTOR Universal Constructors

WORK STAKED BY LTA

INSPECTOR'S ACCEPTANCE BY Ed Gallegos DATE 7/06

CERTIFICATION BY LTA DATE 7/06

DRAWINGS REVISED BY LTA DATE 7/06

MICRO-FILM INFORMATION

RECORDED BY ____ DATE ____

NO. ____

BENCH MARKS

STATION IS A STANDARD USC&GS BRASS GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE, PROJECTING 0.2 FT ABOVE GROUND. LOCATED 480 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155

FIELD NOTES SURVEY INFORMATION

NO.	BY	DATE

ENGINEER'S SEAL

KEVIN G. PATTON NEW MEXICO 12879 REGISTERED PROFESSIONAL ENGINEER

AS-BUILT CERTIFICATION

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YGP DATE 8/99

DRAWN BY BG DATE 8/99

CHECKED BY KGP DATE 8/99

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
PAVING PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY ENGINEER

CITY PROJECT NO. 621981 | ZONE MAP NO. E-23/24 | SHEET 8 OF 21

BHI JOB NO. 39496A06

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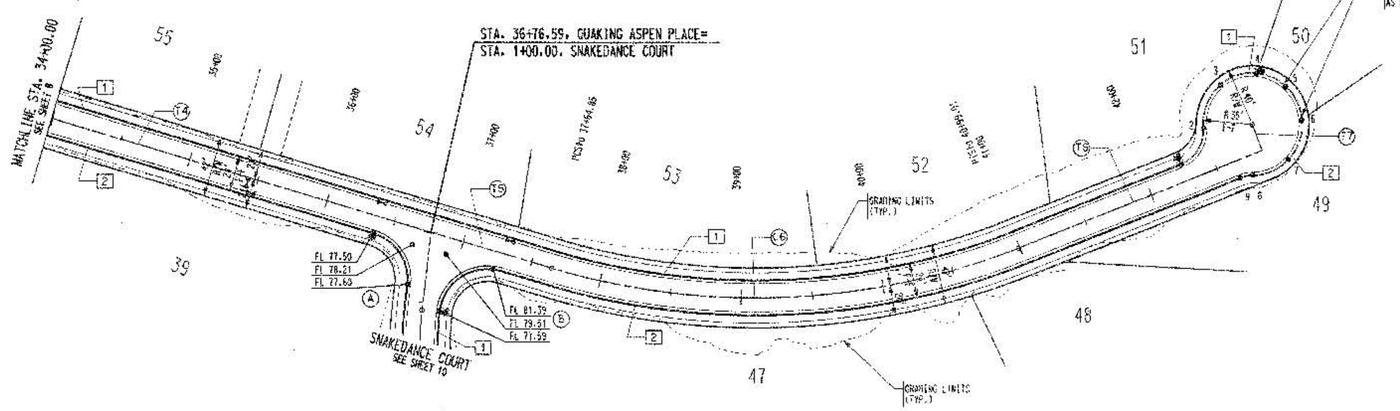
P:\39496\DWG\PAVING\
39496PPMPO2.DGN

RECORD DRAWING

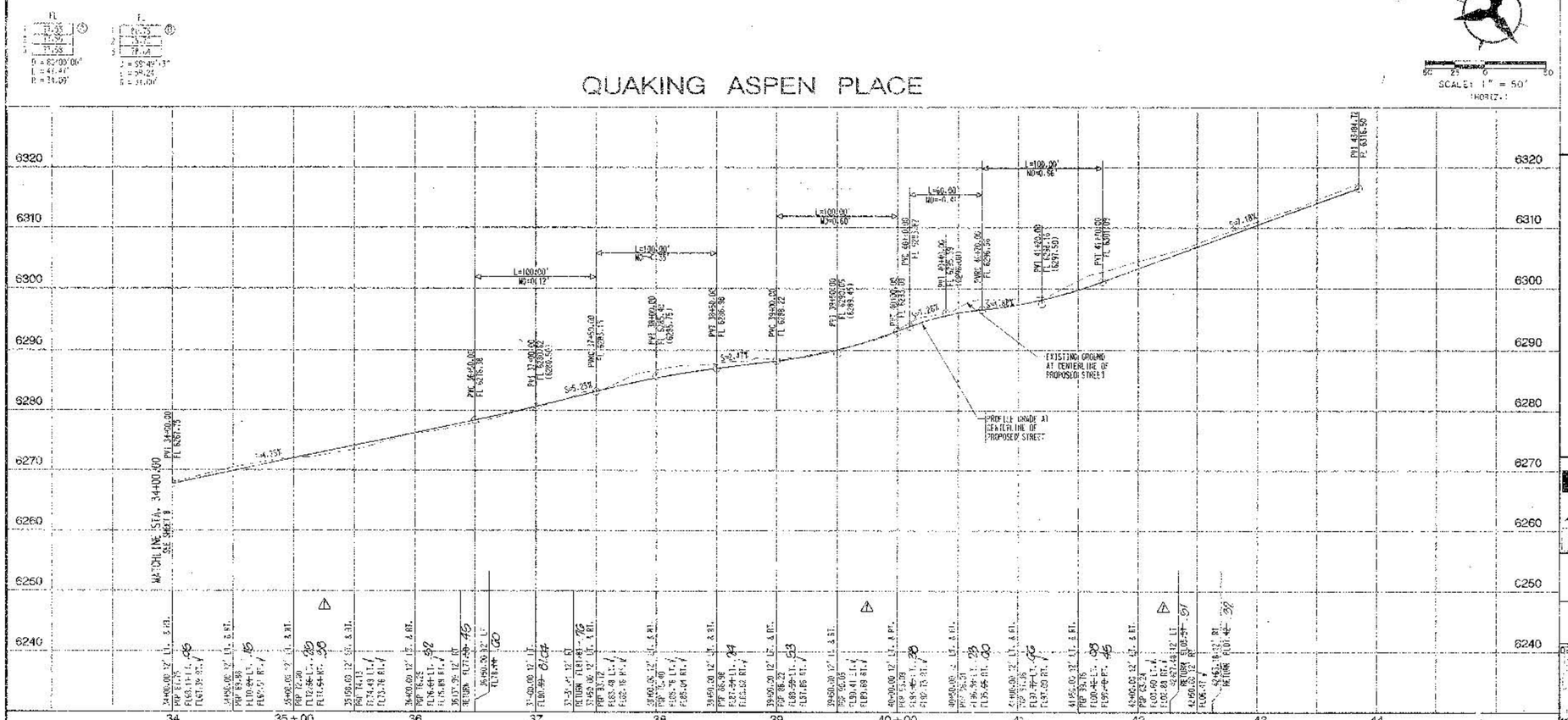


CENTERLINE CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C6	35°17'31"	175.59'	334.16'	500.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T4	N86°58'14"E	527.21'
T5	N86°58'14"E	88.26'
T6	N48°20'43"E	185.71'
T7	S41°38'20"E	19.00'

STA. 43+15.55, 35.55' LT.
STA. 43+18.86, 11.39' LT.
TRANSITION FROM DEPRESSED
GUTTER TYPE (MODIFIED) TO
ROADWAY CURB TYPE
AS PER STD. DWG. 2415

CGL-DE-SAC CURB DATA		
PT	FL	STATION & OFFSET
1	05.57	42427.48, 12.00' LT.
2	07.81	42451.33, 29.50' LT.
3	10.69	42473.55, 52.17' LT.
4	15.96	43400.55, 50.22' LT.
5	12.61	43416.24, 34.21' LT.
6	15.98	43418.21, 9.85' LT.
7	10.00	42499.53, 13.71' RT.
8	08.01	42472.15, 13.67' RT.
9	07.45	42463.18, 12.00' RT.



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

KEYED GENERAL NOTES

[1] DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 6.

[2] ROADWAY CURB TYPE AS PER STD. DWG. 2415

[3] MOUNTABLE CURB ROLL TYPE AS PER STD. DWG. 2415

[4] DEPRESSED GUTTER TYPE CURB AS PER STD. DWG. 2415

SURVEYOR'S CERTIFICATION:

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NM 11161 — Date: 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 11161 REGISTERED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

AS-BUILT INFORMATION

CONTRACTOR Universal Constructors

WORK STAKED BY TMA

INSPECTOR'S ACCEPTANCE BY Richard Chase DATE 7/06

VERIFICATION BY Porter DATE 7/06

DRAWINGS CORRECTED BY TMA DATE 7/06

MICRO-FILM INFORMATION

THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155

RECORDED BY — DATE — NO.

BENCH MARKS

STATION IS A STANDARD USC&GS BRASS GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND. LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

KEVIN G. PATTON NEW MEXICO 9/20/99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY KGP — DATE 8/99
DRAWN BY BG — DATE 8/99
CHECKED BY KGP — DATE 8/99

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
PAVING PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

LAST DESIGN UPDATE

CITY PROJECT NO. 621981 — ZONE MAP NO. E-23/24 — SHEET 9 OF 21

SHT JOB No. 39496406

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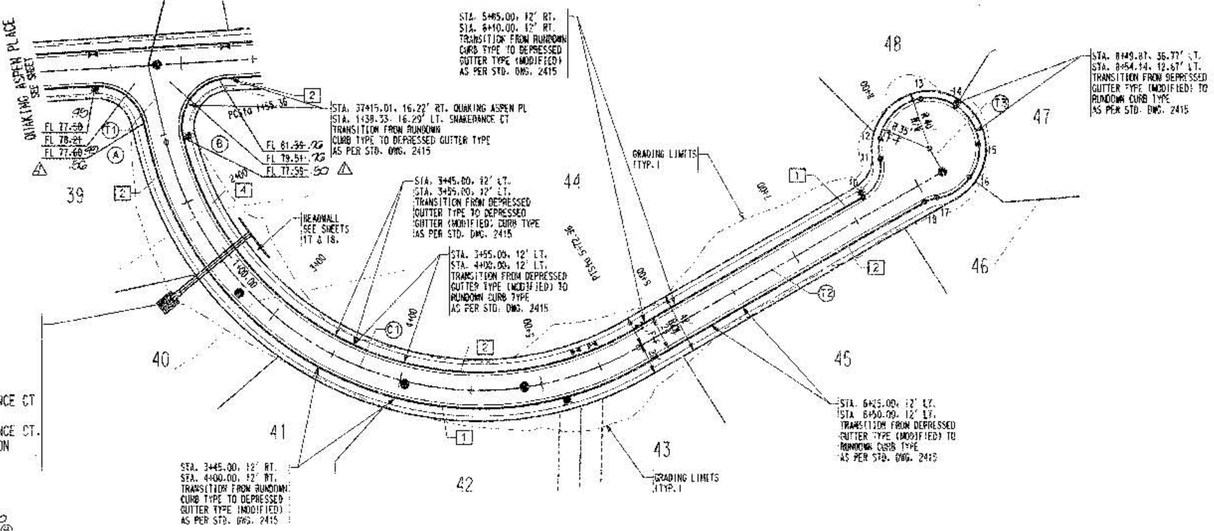
FILE 39496\MODPAPER\
39496PPNPG5.DGN

RECORD DRAWING

STA.1+00.00. SNAKEDANCE COURT=
STA. 36+76.59. QUAKING ASPEN PLACE



CENTERLINE CURVE DATA				
NUMBER	DELTA	TANGENT	ARC	RADIUS
C1	406°20'33"	380.45'	417.01'	225.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S13°24'47"E	55.36'
T2	N60°17'41"E	246.76'
T3	N09°42'19"W	93.00'

CUL-DE-SAC CURB DATA		
PT	FL	STATION & OFFSET
10	99.95	7462.48, 12.00' LT.
11	02.48	7486.33, 29.59' LT.
12	03.46	7493.90, 42.18' LT.
13	06.95	8431.70, 51.88' LT.
14	08.04	8450.69, 35.31' LT.
15	07.17	8451.42, 4.17' LT.
16	05.24	8454.38, 12.78' RT.
17	02.92	8407.16, 13.67' RT.
18	02.29	7476.16, 12.00' RT.

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
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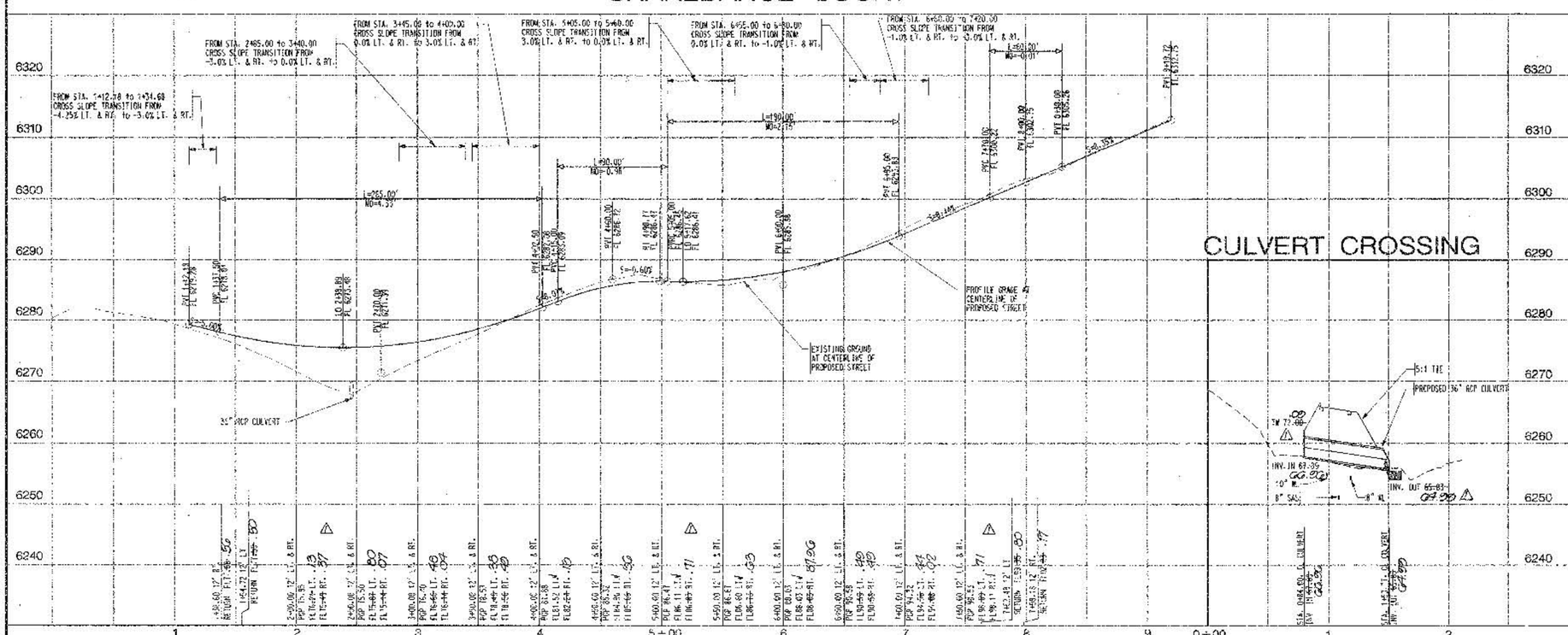
KEYED GENERAL NOTES

1. DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 6.
2. RUNDOWN CURB TYPE AS PER STD. DWG. 2415
3. MOUNTABLE CURB ROLL TYPE AS PER STD. DWG. 2415
4. DEPRESSED GUTTER TYPE CURB AS PER STD. DWG. 2415

SNAKEDANCE COURT



CULVERT CROSSING

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

CHARLES G. CALA, JR. NEW MEXICO 11183 REGISTERED PROFESSIONAL SURVEYOR

Charles G. Cala, Jr., NMPLS No. 11183 — 8-15-2000 Date

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
PAVING PLAN & PROFILE
SNAKEDANCE COURT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

LAST DESIGN UPDATE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	10	21

BENCH MARKS

STATION IS A STANDARD UCCAGS BRASS GEOLOGICAL SURVEY BENCH MARK. TOP TABLET STAMPED "TUBALE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND. LOCATED 499 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6005.155

AS-BUILT INFORMATION

CONTRACTOR Universal Contr. DATE 1-17-1
PRIME SUBCONTRACTOR
INSPECTOR
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

NO.	DATE	BY	REMARKS
			REVISIONS
			DESIGN

DESIGNED BY YGP DATE 8/99
DRAWN BY BG DATE 8/99
CHECKED BY KGP DATE 8/99

AS BUILT & CERTIFY

FIELD NOTES

NO.	DATE	BY

SURVEY INFORMATION

AS SEAL

ENGINEER'S SEAL

KEVIN G. PATTON NEW MEXICO 9768 PROFESSIONAL ENGINEER

8/28/00

P:\99496\CDP\99496\99496PPROA.DGN

BH JOB NO. 99496A06

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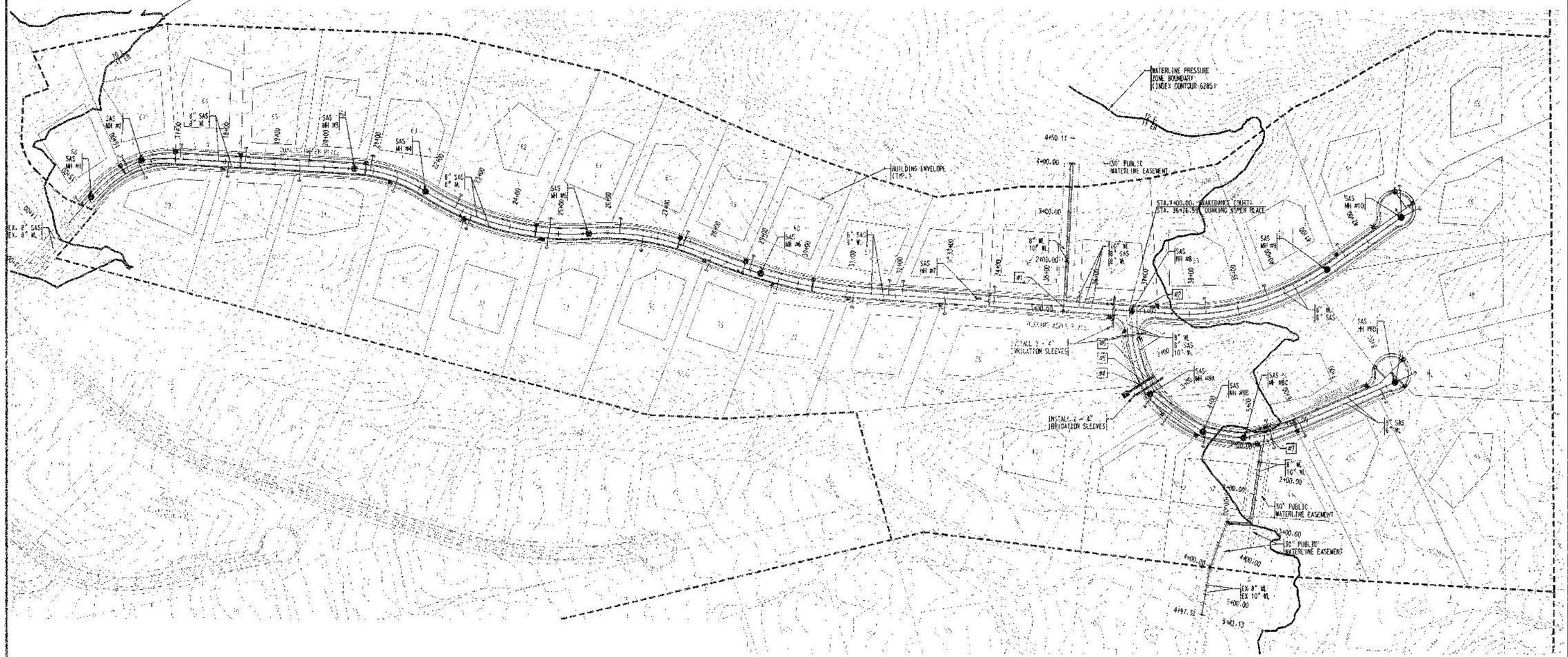
UTILITY LINE CROSSING					
DES	STATION & OFFSET	SW (INV) 36"	SAS (INV) 8"	WL (TP)	CLEARANCE
1	35+42.22, CL QUAKING ASPEN PL	-	57.41	68.46 (8")	10.35'
2	36+92.82, CL QUAKING ASPEN PL	-	60.65	76.91 (10")	14.39'
3	5+34.05, 5.94 LT SNAKEDANCE CT	-	78.29	82.46 (10")	2.36'
4	2+56.51, 12.47 RT SNAKEDANCE CT	66.38 O.D.	-	64.70 (8")	1.50'
5	2+46.00, 2.35 RT SNAKEDANCE CT	66.67 O.D.	61.47 (TP)	-	5.02'
6	2+25.43, 7.77 LT SNAKEDANCE CT	66.96 O.D.	-	95.27 (10")	1.59'

NOTE:
ACTUAL PRESSURE ZONE BOUNDARY FOR 11E8/12E IS LOCATED BETWEEN LOTS 54/55 AND 42/43


WATERLINE PRESSURE ZONE BOUNDARY (INDEX CONTOUR 6170)
WATERLINE PRESSURE ZONE BOUNDARY (INDEX CONTOUR 6285')
BUILDING ENVELOPE (TYP.)
30' PUBLIC WATERLINE EASEMENT
STA. 3+00.00, SNAKEDANCE COURT
STA. 36+26.59, QUAKING ASPEN PLACE
INSTALL 2 - 4" IRRIGATION SLEEVES
SAS MH #7
SAS MH #8
SAS MH #9
SAS MH #10
SAS MH #8A
SAS MH #8B
SAS MH #8C
SAS MH #8D
SAS MH #8E
SAS MH #8F
SAS MH #8G
SAS MH #8H
SAS MH #8I
SAS MH #8J
SAS MH #8K
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SAS MH #8EP
SAS MH #8EQ
SAS MH #8ER
SAS MH #8ES
SAS MH #8

RECORD DRAWING

SANITARY SEWER SERVICES				
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (B/RISER)	
29	16+22.02, 6.36' LT.	37.51'	89.46-15'1	.10
30	16+06.35, 0.00' CL.	31.69'	77.78	.68
31	15+50.60, 0.00' CL.	31.00'	81.44	.63
32	21+51.40, 0.00' CL.	31.00'	96.22	.31
33	23+16.62, 0.00' CL.	31.00'	05.84	.21
62	22+83.26, 0.00' CL.	31.00'	03.85-(1')	.80
63	20+93.71, 0.00' CL.	31.00'	98.13 V	
64	19+66.37, 0.00' CL.	31.00'	88.66	.74
65	18+40.54, 0.00' CL.	31.00'	80.84	.01 — 78.01
66	17+08.79, 0.00' CL.	31.00'	74.25-(5')	
67	16+81.90, 4.74' LT.	25.62'	65.63	.66
68	14+39.53, 5.00' LT.	26.06'	66.24	

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

15+13 ±

STA. 16+90.37, 10.00' RT. INSTALL 1 - 8"x6" TEE w/RESTRAINED JOINTS (APPROX. 24.03 LF 6" PVC) 1 - FIRE HYDRANT 4' BURY (AS PER COA STD. DWG. 2346 FLANGE ELEV. = 85.72 .78) w/ BLOCKING

STA. 16+91.78, 0.47' LT. END CURVILINEAR 8" SAS

SAS MH #2 STA. 16+92.17, 7.00' LT. BUILD 4' DIA. TYPE "E" SAS MH END CURVILINEAR 8" SAS BEGIN CURVILINEAR 8" SAS 85.54

SAS MH #1 STA. 15+07.21, 5.00' LT. BUILD 4' DIA. TYPE "E" SAS MH BEGIN CURVILINEAR 8" SAS

STA. 16+91.06, 9.51' RT. END CURVILINEAR 8" WL

STA. 14+30.53 TO 14+88.70 LT & RT CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING CURB AND PAVEMENT IN CONJUCTION WITH SANITARY SEWER RECONFIGURATION. MATCH EXISTING ELEVATIONS.

STA. 14+39.53, 5.05' LT. CONTRACTOR SHALL REMOVE 52.66 LF OF EXISTING 4" PIPE. REMOVE AND RELOCATE EXISTING DROP MANHOLE INVERT ELEV. IN=72.61 AS SHOWN IN PROFILE.

EX. 8" SAS
EX. 8" WL

STA. 15+07.21, 5.00' RT. BEGIN CURVILINEAR 8" WL

STA. 15+02.21, 5.00' RT. REMOVE 8" WL CAP & BLOCKING CONNECT NEW 8" M. TO EXISTING 8" M. w/ NON-PRESSURE CONNECTION TP=73.50

STA. 16+35.03, 3.00' RT. INSTALL 1 - 8" 15.25' (BEND (ACTUAL BEND = 15.67') w/ RESTRAINED JOINTS END CURVILINEAR 8" WL BEGIN CURVILINEAR 8" WL

STA. 20+61.46, 10.00' RT. BEGIN CURVILINEAR 8" WL

SAS MH #3 STA. 20+61.46, ℄ BUILD 4' DIA. TYPE "E" SAS MH BEGIN CURVILINEAR 8" SAS

SAS MH #4 STA. 22+14.45, ℄ BUILD 4' DIA. TYPE "E" SAS MH POINT OF REVERSE CURVE FOR 8" SAS

STA. 22+14.45, 10.00' RT. POINT OF REVERSE CURVE FOR 8" WL

STA. 23+09.22, 10.00' RT. INSTALL 1-8" GATE VALVE w/ TYPE "A" BOX & LID w/RESTRAINED JOINTS 1 - 8"x6" TEE w/RESTRAINED JOINTS APPROX. 4.15 LF 6" PVC 1 - FIRE HYDRANT 4' BURY AS PER COA STD. DWG. 2340 FLANGE ELEV. = ~~89.80~~ 10.00 w/ BLOCKING

MATCHLINE STA. 24+00.00 SEE SHEET 13

8" WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C9	121.74'	265.00'	26°19'20"	61.97'
C10	57.57'	265.00'	12°26'59"	28.90'
C11	147.89'	290.00'	29°13'08"	75.60'
C12	353.18'	560.00'	36°11'23"	182.98'

8" WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T8	N 39°25'35"E	5.00'
T9	N 86°12'32"E	368.70'

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C1	121.51'	275.00'	26°34'41"	64.95'
C2	60.97'	275.00'	12°42'12"	30.61'
C3	152.39'	300.00'	29°13'08"	78.20'
C4	347.40'	550.00'	36°11'23"	179.71'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	N 39°25'35"E	5.00'
T2	N 86°12'25"E	369.70'

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

QUAKING ASPEN PLACE

SCALE: 1" = 50' (HORIZ.)

RESTRAINED JOINTS TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED		
	6"	8"	10"
11.25°	2'	3'	4'
22.5°	4'	5'	8'
45°	8'	11'	16'
90°	20'	26'	38'
GATE VALVE	55'	72'	86'
REDUCER (10"X6")	53'	-	53'
VERTICAL BEND-11.25°	-	LOWER-1' UPPER-7'	LOWER-1' UPPER-6'

NOTES

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
5. ALL CAPS SHALL UTILIZE PCC BLOCKING.

EXIST. RIM = 6177.78
Inv. In = 6150.14
Inv. Out = 6138.03

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NM PLS No. 11186 — Date 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 11186 PROFESSIONAL SURVEYOR

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS HYDROGRAPHERS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
UTILITY PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	12	21

AS-BUILT INFORMATION
CONTRACTOR Universal Construction
WORK STAKED BY LMA DATE
FIELD ACCEPTANCE BY DATE
FIELD LOCATION BY LMA DATE 7/00
DRAWING CORRECTED BY LMA DATE
MICRO-FILM INFORMATION
DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.195
RECORDED BY DATE
NO.

BENCH MARKS
STATION IS A STANDARD UCGS BRASS GEODETICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND, LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.195

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KEVIN G. PATTON NEW MEXICO 9781 PROFESSIONAL ENGINEER
8/1/2000

AS-BUILT & GRAPHICS
CGC
NO. DATE BY REMARKS
REVISIONS
DESIGN
DESIGNED BY YGP DATE 8/99
DRAWN BY BG DATE 8/99
CHECKED BY KGP DATE 8/99

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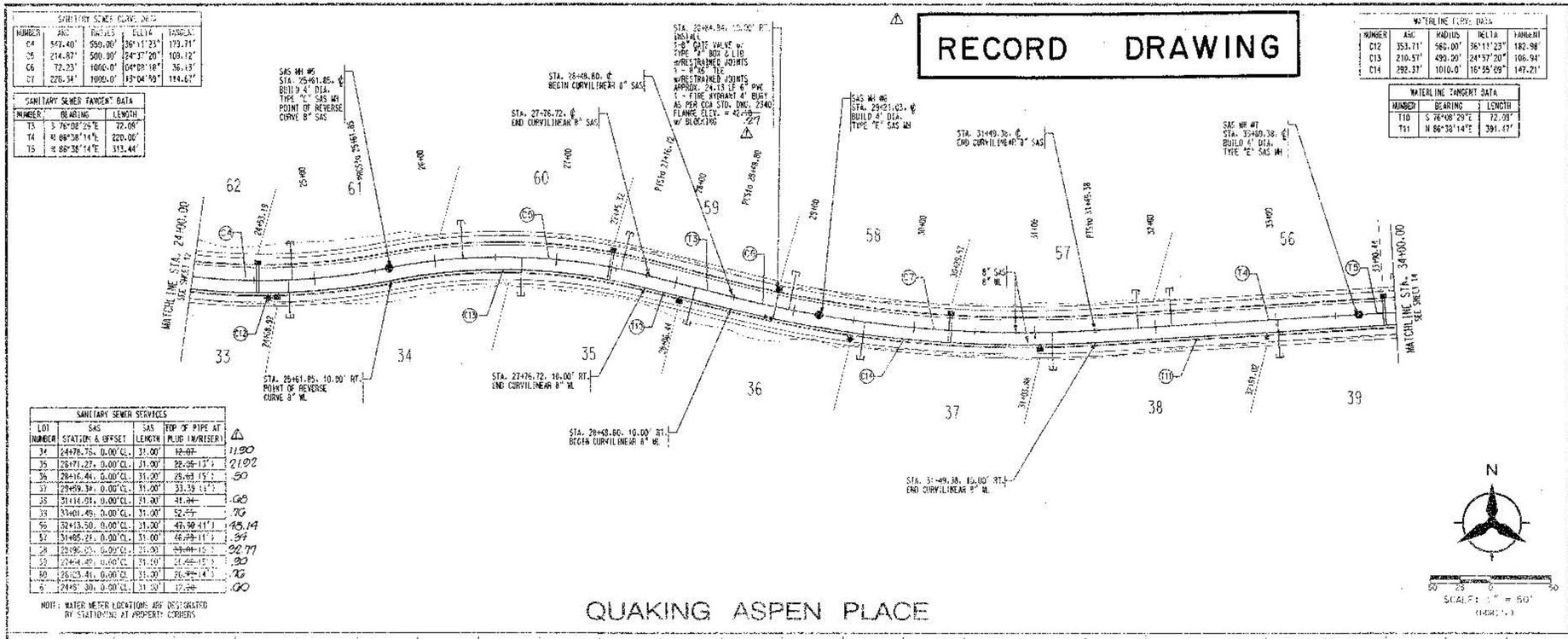
RECORD DRAWING

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C4	347.40'	550.00'	36°11'23"	179.71'
C5	214.87'	500.00'	24°37'20"	109.12'
C6	72.23'	1000.0'	04°08'18"	36.13'
C7	226.34'	1000.0'	13°04'59"	114.07'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T5	S 76°08'29"E	72.08'
T4	N 86°38'14"E	220.06'
T6	N 86°38'14"E	313.44'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C12	353.71'	560.00'	36°11'23"	182.98'
C13	210.57'	490.00'	24°37'20"	106.94'
C14	292.37'	1010.0'	16°35'09"	147.21'

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T10	S 76°08'29"E	72.08'
T11	N 86°38'14"E	391.47'



SANITARY SEWER SERVICES				
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG IN/INVERT	
34	24+78.76, 0.00'CL.	31.00'	~~12.07~~	1190
35	25+71.27, 0.00'CL.	31.00'	22.05-13'±	2102
36	26+16.44, 0.00'CL.	31.00'	25.63-15'±	50
37	29+59.34, 0.00'CL.	31.00'	33.39-14'±	
38	31+14.01, 0.00'CL.	31.00'	41.84	68
39	33+01.49, 0.00'CL.	31.00'	52.55	76
56	32+13.50, 0.00'CL.	31.00'	47.98-11'±	45.14
57	31+65.29, 0.00'CL.	31.00'	46.73-11'±	34
58	29+96.03, 0.00'CL.	31.00'	43.01-15'±	92.77
59	27+44.49, 0.00'CL.	31.00'	37.66-15'±	80
60	26+23.46, 0.00'CL.	31.00'	26.92-14'±	76
61	24+85.30, 0.00'CL.	31.00'	12.29	60

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS

QUAKING ASPEN PLACE

SCALE: 1" = 50' (HORIZ.)

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12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

RESTRAINED JOINTS TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED		
	6"	8"	10"
11.25°	2'	3'	4'
22.5°	4'	5'	8'
45°	8'	12'	18'
90°	20'	26'	38'
GATE VALVE	55'	72'	86'
REDUCER (10"X6")	53'	-	53'
VERTICAL BEND-11.25°	-	LOWER-1' UPPER-7'	LOWER-1' UPPER-8'

NOTES

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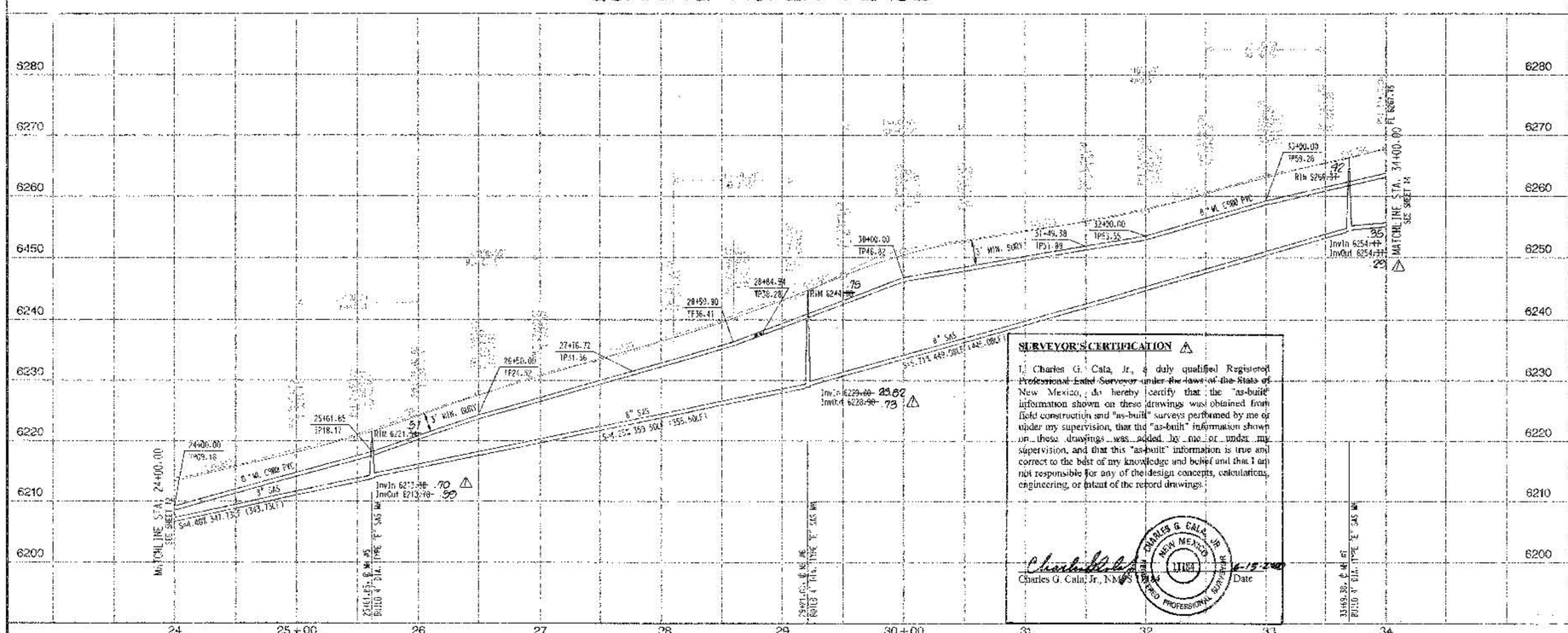
5. ALL CAPS SHALL UTILIZE PCC BLOCKING.



SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NMPLS No. 11104 — Date 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 11104 REGISTERED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
UTILITY PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	13	21

AS-BUILT INFORMATION
CONTRACTOR Riverside Contractors, Inc.
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
WATERLINE LOCATION BY
GROUND, LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155
RECORDED BY
NO.
DATE

BENCH MARKS
STATION IS A STANDARD UCGS BRASS GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND, LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR. ELEV. = 6009.155

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KEVIN G. FATTON NEW MEXICO 9698 PROFESSIONAL ENGINEER
6-15-2000

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YCP DATE 8/99
DRAWN BY BC DATE 8/99
CHECKED BY KGP DATE 8/99

AS-BUILT J. CARPENTER

P:\99496\COPYNPN4
99496UPN07.DGN

SMI JOB NO. 99496016

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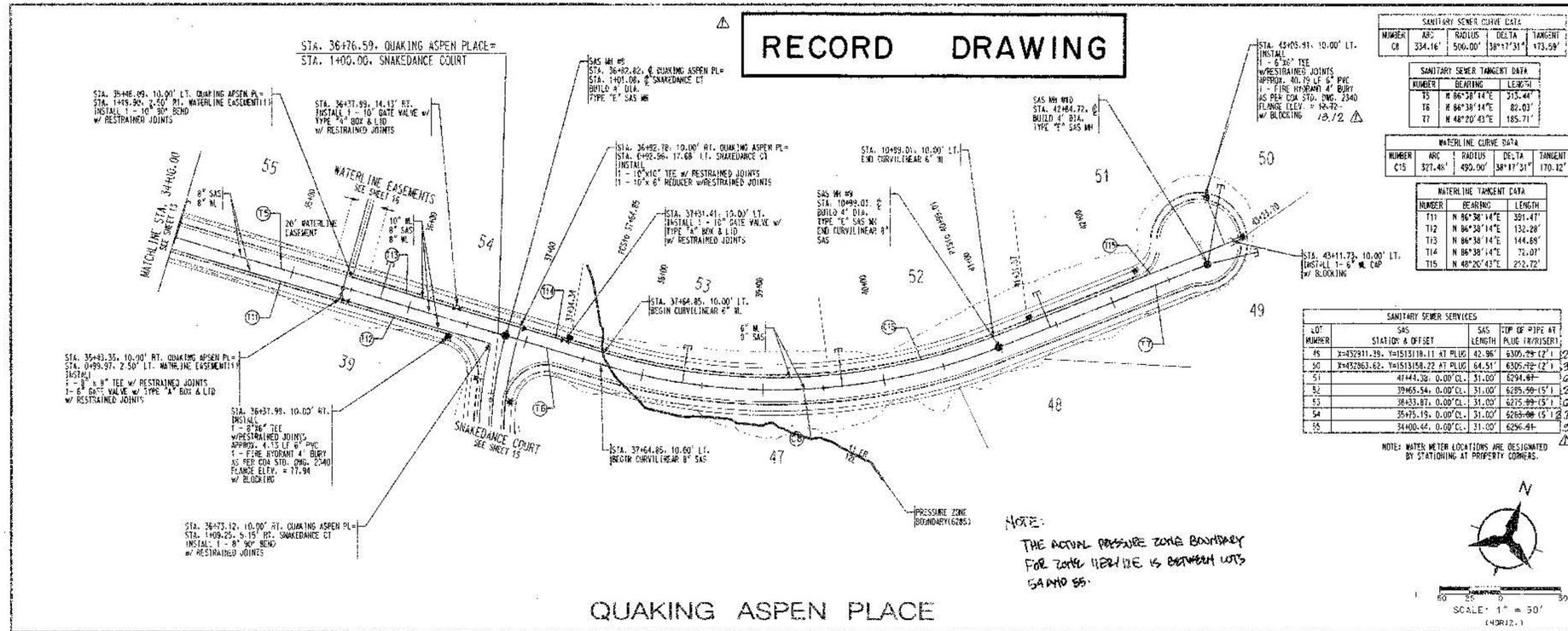
RECORD DRAWING



NOTE:
THE ACTUAL PRESSURE ZONE BOUNDARY FOR ZONE 1282/1215 IS BETWEEN LOTS 54 AND 55.

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C8	334.16'	500.00'	38°17'31"	173.59'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T5	N 86°38'14"E	313.44'
T6	N 86°38'14"E	82.03'
T7	N 48°20'43"E	185.71'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C15	327.46'	490.00'	38°17'31"	170.12'

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T11	N 86°38'14"E	391.47'
T12	N 86°38'14"E	132.28'
T13	N 86°38'14"E	144.69'
T14	N 86°38'14"E	72.01'
T15	N 48°20'43"E	252.72'

SANITARY SEWER SERVICES				
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)	
49	X=452911.39, Y=1513118.11 AT PLUG	42.96'	6305.29'(2')	122
50	X=452963.62, Y=1513158.22 AT PLUG	64.51'	6305.42'(2')	34
51	41+44.38, 0.00'CL.	31.00'	6294.67'	62
52	39+65.54, 0.00'CL.	31.00'	6285.50'(5')	21
53	38+33.87, 0.00'CL.	31.00'	6275.99'(5')	63
54	35+75.15, 0.00'CL.	31.00'	6263.00'(5')	75
55	34+00.44, 0.00'CL.	31.00'	6296.94'	190

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

SCALE: 1" = 50' (HORIZ.)

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

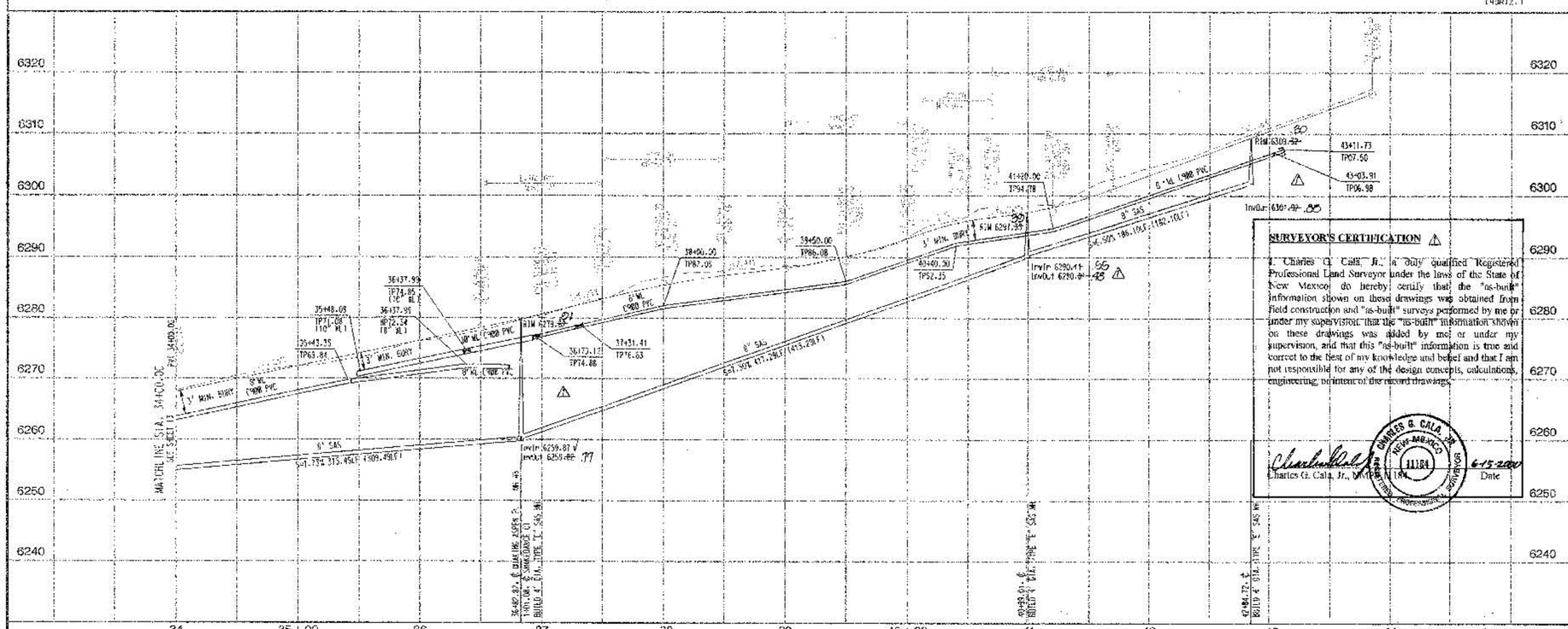
RESTRAINED JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED		
	6"	8"	10"
11.25°	2'	3'	4'
22.5°	4'	5'	8'
45°	8'	11'	16'
90°	20'	26'	38'
GATE VALVE	55'	72'	86'
REDUCER (10"X6")	53'	~	53'
VERTICAL BEND-11.25°	-	LOWER-1' UPPER-7'	LOWER-1' UPPER-6'

NOTES

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
5. ALL CAPS SHALL UTILIZE PCC BLOCKING.

QUAKING ASPEN PLACE



SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NM PLS No. 11184 — 6-15-2000 Date

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

AS-BUILT INFORMATION

BENCH MARKS	
STATION IS A STANDARD ACCBGS BRASS	CONTRACTOR Universal Construction
GEOLOGICAL SURVEY BENCH MARK, TOP	STAKED BY JMA
TABLET STAMPED "TUMBLE 1969" SET	INSPECTOR
IN CONCRETE PROJECTING 0.2 FT ABOVE	FIELD VERIFICATION BY
GROUND, LOCATED 489 FEET WEST OF	DATE
THE INTERSECTION OF SAN ANTONIO	DRAWINGS CORRECTED BY JMA DATE 8/00
DRIVE AND TENNYSON STREET, AND 35	MICRO-FILM INFORMATION
FEET NORTH OF RIGHT-OF-WAY LINE	RECORDED BY DATE
OF SAN ANTONIO DR. ELEV. = 6009.165	NO.

SEAL SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL: KEVIN C. PATTON, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER, 9/28/99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

AS-BUILT CERTIFY.

DESIGNED BY	YGP	DATE 8/99
DRAWN BY	BG	DATE 8/99
CHECKED BY	XGP	DATE 8/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
UTILITY PLAN & PROFILE
QUAKING ASPEN PLACE

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	14	21

BHI JOB NO. 99496A06

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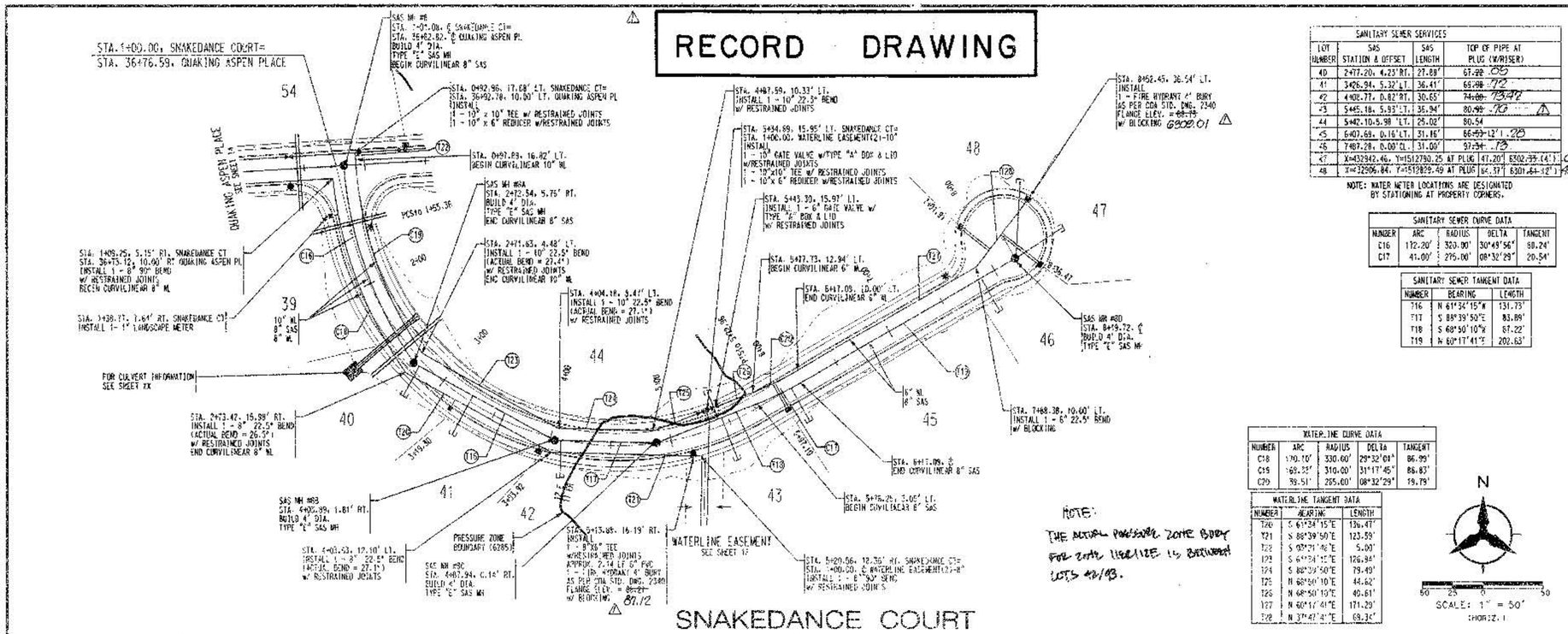
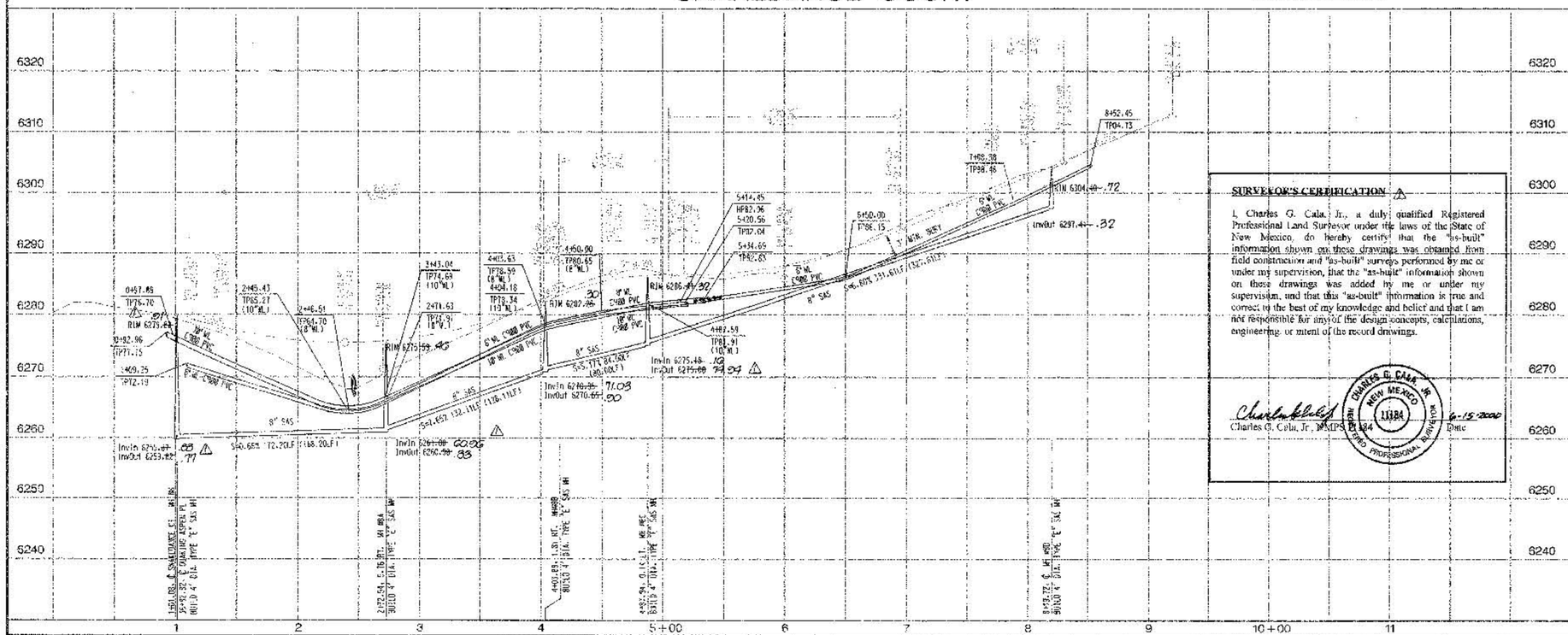
99496UMP03.DGN

RECORD DRAWING



SNAKEDANCE COURT



SANITARY SEWER SERVICES			
LOT NUMBER	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
40	2+77.20, 4.23' RT.	27.89'	67.22 .86
41	3+26.94, 5.32' LT.	36.41'	65.98 .72
42	4+02.77, 0.82' RT.	30.65'	74.00 73.42
43	5+45.18, 5.93' LT.	35.94'	80.92 .76
44	5+42.10, 5.98 'LT.	25.02'	80.54
45	6+07.69, 0.16' LT.	31.86'	66.53 L2' 1.20
46	7+87.28, 0.00' CL.	31.00'	97.34 .13
47	X=432942.46, Y=1512780.25 AT PLUG		47.20' 6302.35 (4') .04
48	X=32906.84, Y=1512829.49 AT PLUG		64.37' 6301.64-12' 1' .43

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

SANITARY SEWER CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C16	172.20'	320.00'	30°49'56"	88.24'
C17	41.00'	275.00'	08°32'29"	20.54'

SANITARY SEWER TANGENT DATA		
NUMBER	BEARING	LENGTH
T16	N 61°34'15"W	131.73'
T17	S 88°39'50"E	83.89'
T18	S 68°50'10"W	87.22'
T19	N 60°17'41"E	202.63'

WATERLINE CURVE DATA				
NUMBER	ARC	RADIUS	DELTA	TANGENT
C18	170.10'	330.00'	29°32'04"	86.99'
C19	168.23'	310.00'	31°17'45"	86.83'
C20	39.51'	265.00'	08°32'29"	19.79'

WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T20	S 61°34'15"E	136.47'
T21	S 88°39'50"E	123.59'
T22	S 02°21'48"E	5.00'
T23	S 64°34'15"E	126.94'
T24	S 88°39'50"E	79.49'
T25	N 68°50'10"E	44.62'
T26	N 68°50'10"E	40.61'
T27	N 60°17'41"E	171.29'
T28	N 37°47'41"E	69.36'

NOTES

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2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

RESTRAINED JOINTS TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED		
	6"	8"	10"
11.25°	2'	3'	4'
22.5°	4'	5'	8'
45°	8'	11'	16'
90°	20'	26'	38'
GATE VALVE	55'	72'	86'
REDUCER (10"X6")	53'	-	53'
VERTICAL BEND-11.25°	-	LOWER-1' UPPER-7'	LOWER-1' UPPER-8'

NOTES

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A ML SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
5. ALL CAPS SHALL UTILIZE PCC BLOCKING.

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NMPLS No. 11184 — Date 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS A1 HIGH DESERT
UTILITY PLAN & PROFILE
SNAKEDANCE COURT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621961	E-23/24	15	21

AS-BUILT INFORMATION

CONTRACTOR University Contractors

STAMPED BY CGC DATE 8/99

STAMPED BY CGC DATE 8/99

ACCEPTANCE BY DATE

FIELD VERIFICATION BY MA DATE 9/29/99

DRAWINGS CORRECTED BY MA DATE 9/29/99

MICRO-FILM INFORMATION

RECORDED BY DATE

NO. OF SAN ANTONIO DR. ELEV. = 6009.155

BENCH MARKS

STATION IS A STANDARD USC&GS BRASS GEOLOGICAL SURVEY BENCH MARK. FOR TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND. LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO DRIVE AND TENNYSON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

SEAL

KEVIN G. PATTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 9/29/99

ENGINEER'S

CGC

AS-BUILT & CERTIFY

NO.	DATE	REMARKS REVISIONS DESIGN	BY

DESIGNED BY YCP DATE 8/99

DRAWN BY BG DATE 8/99

CHECKED BY KGP DATE 8/99

P:\99496\DP\PNP\ 99496UPNP04.DGN

BHI JOB NO. 99496A06

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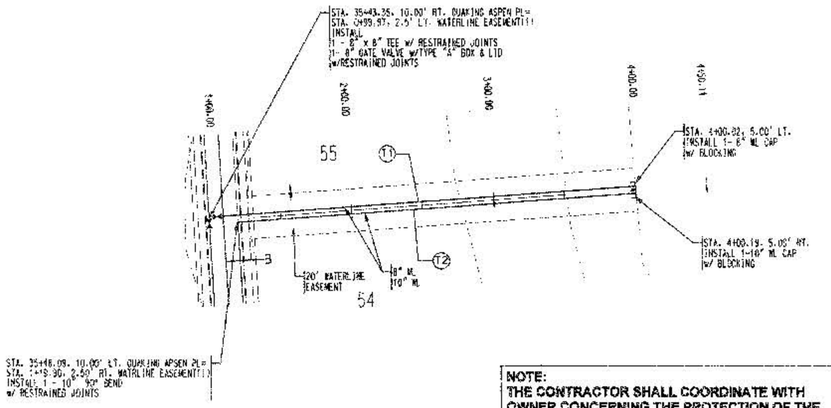
RECORD DRAWING

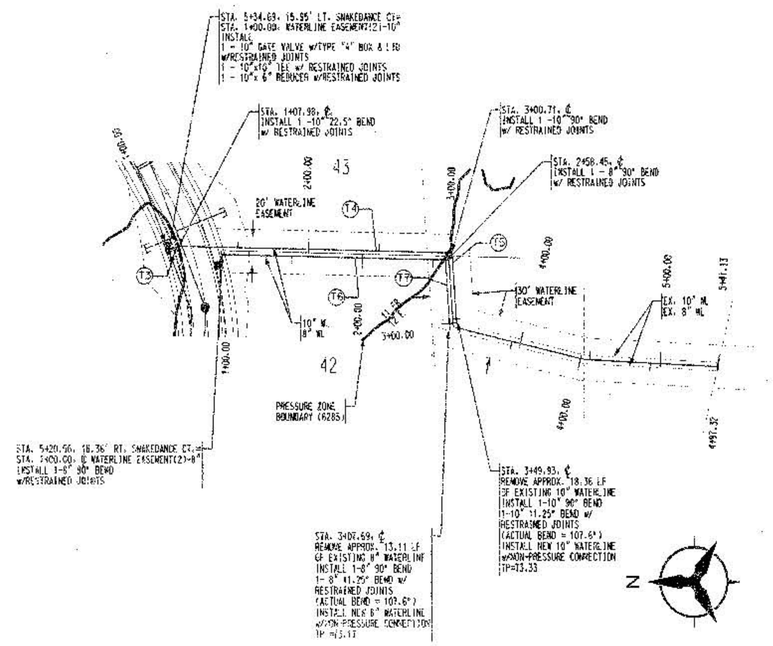
WATERLINE TANGENT DATA		
NUMBER	BEARING	LENGTH
T1	S 04°06'28"E	300.50'
T2	S 04°06'28"E	280.93'
T3	N 21°09'50"W	7.38'
T4	S 01°20'10"W	192.72'
T5	N 88°15'14"E	49.22'
T6	N 01°20'10"W	158.45'
T7	N 88°15'14"E	49.35'



NOTE:
THE CONTRACTOR SHALL COORDINATE WITH OWNER CONCERNING THE PROTECTION OF THE EXISTING TREES DURING THE CONSTRUCTION/ TRENCHING OF WATERLINE. EVERY EFFECT SHALL BE TAKEN TO PROTECT THE EXISTING TREES AND THEIR ROOTS. CONTRACTOR SHALL REPLACE ANY TREE THAT HAS BEEN DAMAGED IN ANY WAY AT CONTRACTOR EXPENSE.

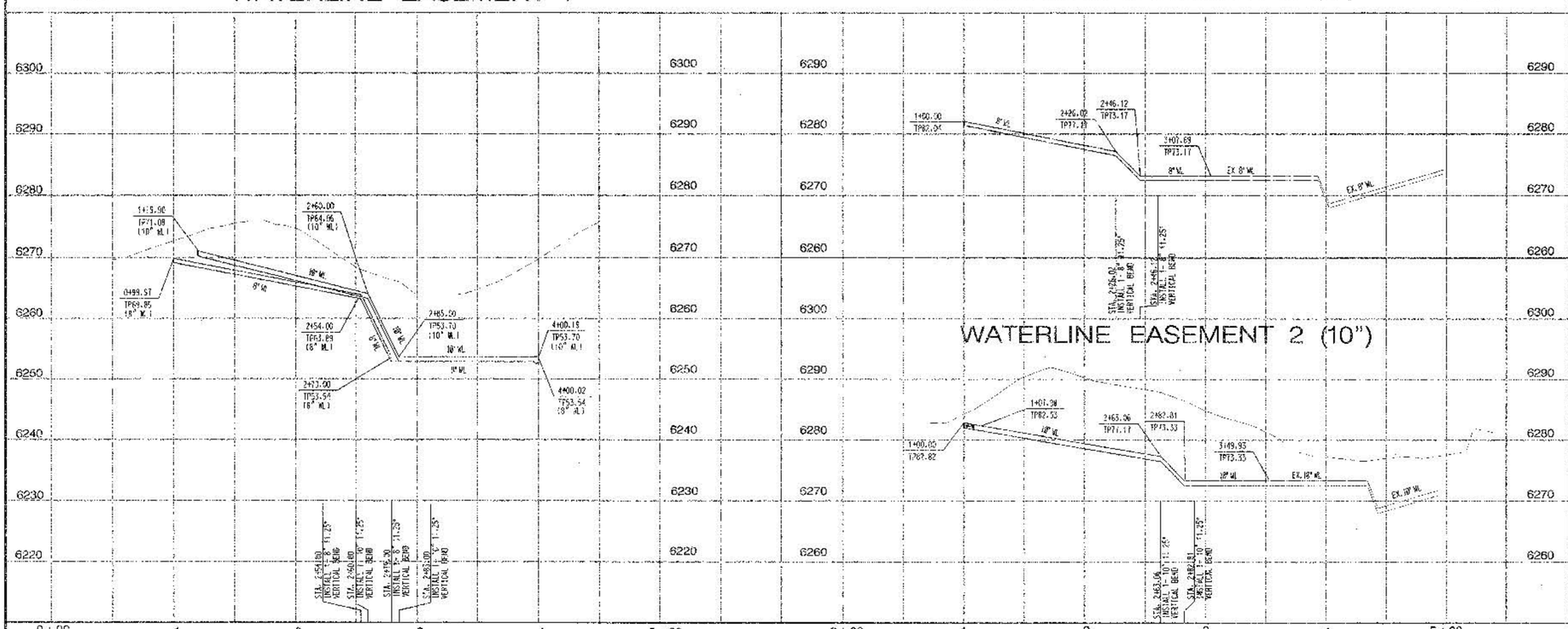
SCALE: 1" = 50' (HORIZ.)

WATERLINE EASEMENT 1



SCALE: 1" = 50' (HORIZ.)

WATERLINE EASEMENT 2 (8")



WATERLINE EASEMENT 2 (10")

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF FACE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.

RESTRAINED JOINTS TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED		
	6"	8"	10"
11.25°	2'	3'	4'
22.5°	4'	5'	8'
45°	8'	11'	16'
90°	20'	26'	36'
GATE VALVE	55'	72'	86'
REDUCER (10"X6")	53'	-	53'
VERTICAL BEND-11.25°	-	LOWER-1' UPPER-7'	LOWER-1' UPPER-8'

NOTES

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
5. ALL CAPS SHALL UTILIZE PCC BLOCKING.

AS-BUILT INFORMATION
CONTRACTOR Universal Constructors
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
DRIVE AND TENNISON STREET, AND 35 FEET NORTH OF RIGHT-OF-WAY LINE OF SAN ANTONIO DR., ELEV. = 6009.155
RECORDED BY — DATE
NO.

BENCH MARKS
STATION IS A STANDARD UCC&GS BRASS GEOLOGICAL SURVEY BENCH MARK, TOP TABLET STAMPED "TUMBLE 1969" SET IN CONCRETE PROJECTING 0.2 FT ABOVE GROUND, LOCATED 489 FEET WEST OF THE INTERSECTION OF SAN ANTONIO

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KEVIN G. PATTON — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER
9/28/99

NO.	DATE	REMARKS	BY
1	RECORD DRAWING		
		REVISIONS	
		DESIGN	

DESIGNED BY VDP — DATE 8/99
DRAWN BY JG — DATE 8/99
CHECKED BY KGP — DATE 8/99

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 OF DESERT HIGHLANDS AT HIGH DESERT
UTILITY PLAN & PROFILE
WATERLINE EASEMENTS

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23/24	16	21

R:\99496\CDP\PNP\99496UPIP05.DGN

BHI JOB NO. 99496A06

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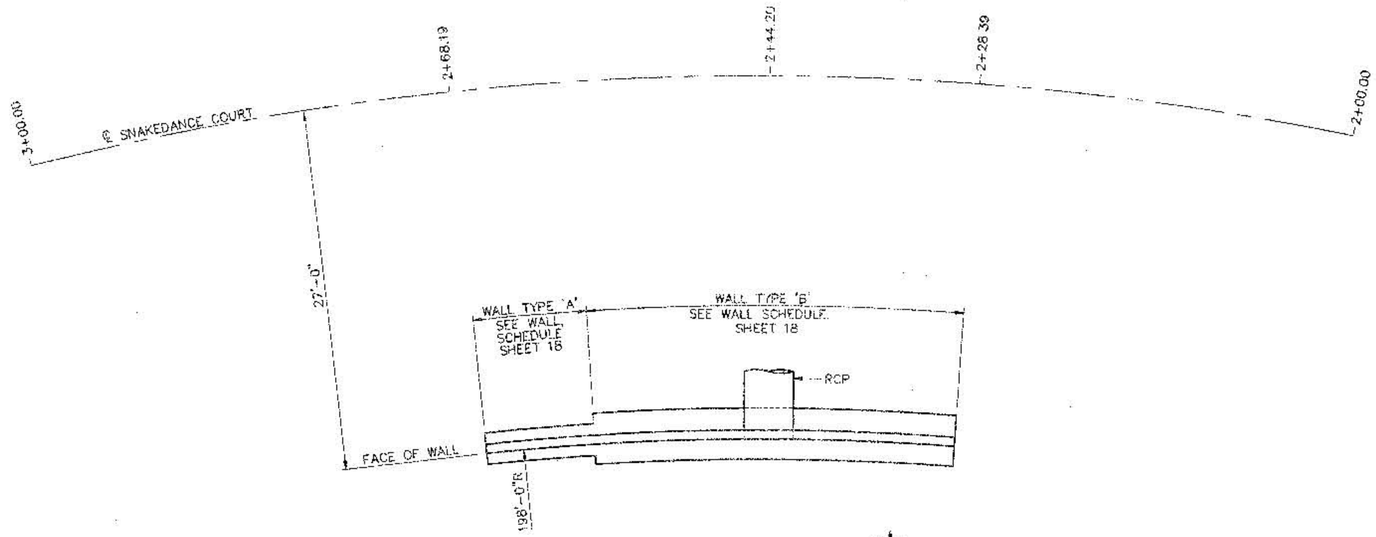
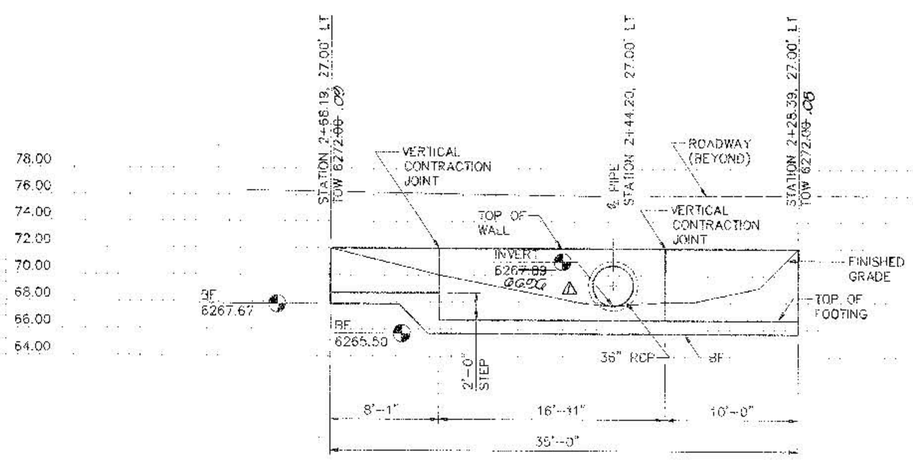
RECORD DRAWING



PLAN
SCALE: 3/16" = 1'-0"



HEADWALL PROFILE (DEVELOPED)
SCALE: 3/16" = 1'-0"

NOTE:
STATIONING FROM ℄ CONSTRUCTION OF SNAKEDANCE COURT.

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., N.M.P.L.S. 12384 — Date 6-15-2000

CHARLES G. CALA, JR. NEW MEXICO 12384 REGISTERED PROFESSIONAL SURVEYOR

AS-BUILT INFORMATION
CONTRACTOR Universal Gas DATE
WORK STAKED BY IMA DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY IMA DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

C.G.C.

AS-BUILT & CERTIFY

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: DAA DATE: 09/29/99
Drawn By: ZD DATE: 09/29/99
Checked By: DMB DATE: 09/29/99

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIT 2 - DESERT HIGHLANDS AT HIGH DESERT
CULVERT HEADWALL PLAN & PROFILE

Design Review Committee — City Engineer Approval — Post Design Update — No./Day/Yr. — No./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
621981	E-23/24	17	21

A_BHI_BOI/99496/STRUCT/ACAD/S-C-WALL2.DWG 09/29/99

BHI JOB NO. 99496A05

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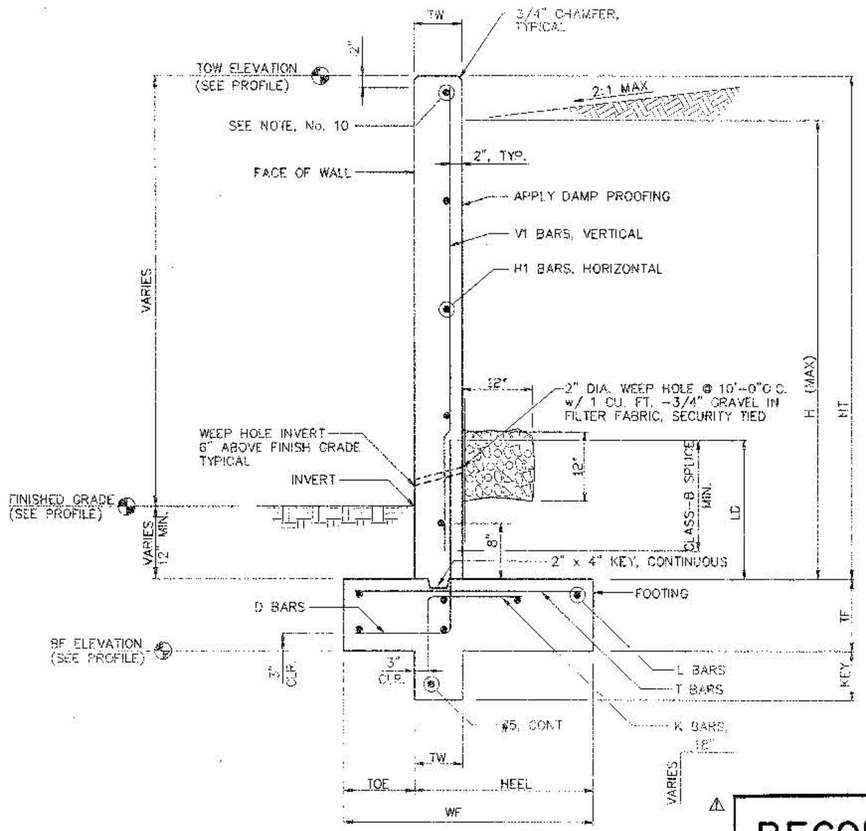
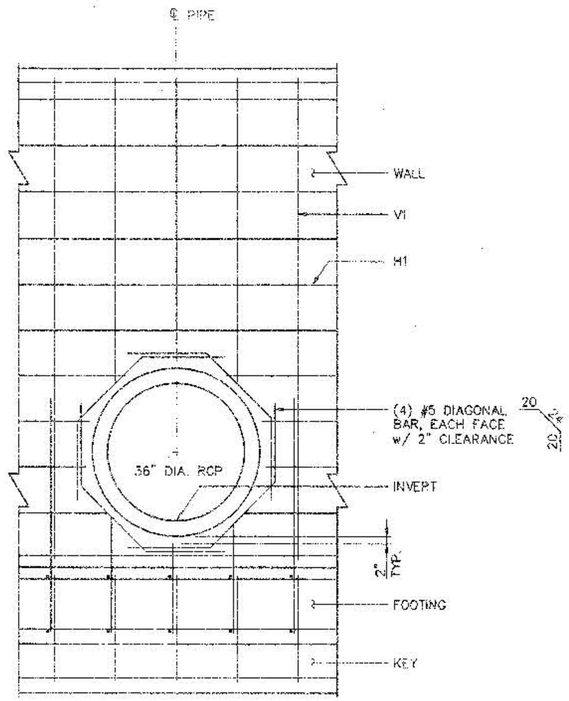
09/29/99



TYPICAL WALL SECTION

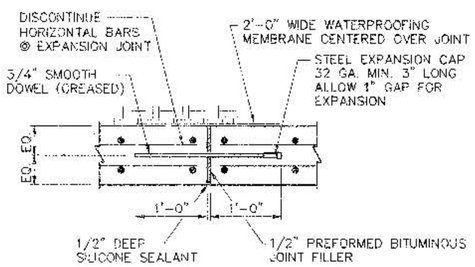
NO SCALE



WALL ELEVATION AT PENETRATION

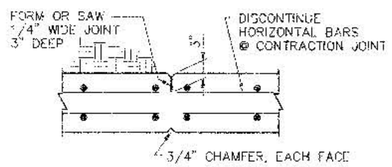
NO SCALE

RECORD DRAWING



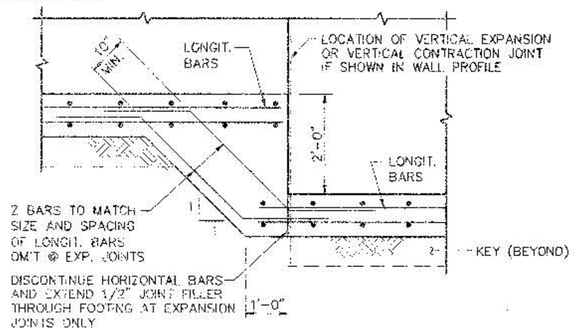
VERTICAL EXPANSION JOINT PLAN DETAIL

NO SCALE



VERTICAL CONTRACTION JOINT PLAN DETAIL

NO SCALE



STEP FOOTING DETAIL

NO SCALE

NOTES FOR CAST IN PLACE CULVERT HEADWALL

1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. STRUCTURAL CAST-IN-PLACE CONCRETE: STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 101, TABLE 101.C, HYDRAULIC STRUCTURES.
3. REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 102-STEEL REINFORCEMENT, AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE AS SHOWN ON THE PLANS.
4. SUBGRADE PREPARATION: EXPOSED SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6", MOISTURE CONDITIONED TO A NEAR OPTIMUM (2%) MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. DURING BACKFILLING, THE CONTRACTOR SHALL BE LIMITED TO THE USE OF HAND OPERATED COMPACTION EQUIPMENT WITHIN A ZONE OF FIVE FEET HORIZONTALLY FROM THE BACK OF THE WALL. THE BACKFILL SHALL BE LIFTS NOT TO EXCEED EIGHT INCHES, WATERED AS NECESSARY AND COMPACTED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE WALL AND ANY ADJACENT STRUCTURES DURING CONSTRUCTION , AS WELL AS WORKER SAFETY AND COMPLIANCE WITH OSHA OR OTHER AGENCY SAFETY GUIDELINES.
6. RCP END SECTION SHALL HAVE A PREFABRICATED, BEVELED END. DO NOT FIELD CUT.
7. VERTICAL EXPANSION AND VERTICAL CONTRACTION JOINTS SHALL BE PLACED AS SHOWN ON THE WALL PROFILE.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE CONCRETE FOOTING PLACEMENT, FOR THE INSPECTION OF COMPACTION UNDER THE FOOTING, FOOTING DEPTH AND WIDTH, THE WALL STEEL SPACING. FINAL INSPECTION OF THE FOOTING AND WALL WILL BE REQUIRED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CODE ADMINISTRATION APPROVAL AND FEES ASSOCIATED WITH IT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN POSITION DURING THE PLACEMENT OF THE CONCRETE. ANY REBAR IMPROPERLY INSTALLED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
11. THE CONTRACTOR SHALL CLEAN ALL CONSTRUCTION DEBRIS FROM THE AREA.
12. SEE SHEET 5 FOR GRADING PLAN AND SHEET 10 FOR RCP PIPE ALIGNMENT AND INVERT ELEVATION.
13. EXISTING UTILITIES: SEE GENERAL NOTES, SHEET 3, FOR NOTES REGARDING EXISTING UTILITIES.

DESIGN LOADS

EFP (ACTIVE)	=35 PCF
EFP (PASSIVE)	=325 PCF
SOIL UNIT WEIGHT	=110 PCF
ALLOWABLE BEARING PRESSURE	=1500 PSF
COEFFICIENT OF FRICTION FOR SLIDING	=0.40

LAP SPLICES-CLASS B

BAR	LENGTH (IN)
4	22
5	28
6	32
7	38
8	50

DIMENSIONS

WALL TYPE	HT	H (MAX)	TF (IN)	TW (IN)	TOE (IN)	HEEL (IN)	WF (IN)	KEY (IN)	LD (IN)
A	3'-6"	3'-6"	10	8	10	18	28	–	24
B	5'-6"	5'-6"	12	8	18	27	45	–	24
C	–	–	–	–	–	–	–	–	–
D	–	–	–	–	–	–	–	–	–

REINFORCING

WALL TYPE	D		V1		H1		L			T		K	
	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	NO. REQ'D		SIZE	SPACE	SIZE	SPACE
A	4	12	4	12	4	12	4	4		4	18	–	–
B	4	12	4	12	4	12	4	6		4	18	–	–
C	–	–	–	–	–	–	–	–		–	–	–	–
D	–	–	–	–	–	–	–	–		–	–	–	–

WALL SCHEDULE

AS-BUILT INFORMATION
CONTRACTOR DATE
SOIL TESTS BY DATE
INSPECTOR'S FIELD ACCEPTANCE BY DATE
FABRICATION BY DATE
INSTALLED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

No.	Date	REMARKS	By
1	09/29/99	REVISIONS	
		DESIGN	

RECORD DRAWING

Designed By: DAA DATE: 09/29/99
Drawn By: ED DATE: 09/29/99
Checked By: DWS DATE: 09/29/99

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UNIT 2 - DESERT HIGHLANDS AT HIGH DESERT
CULVERT HEADWALL DETAILS

Design Review Committee | City Engineer Approval | Last Design Update | No./Day/Yr. | No./Day/Yr.

City Project No. 621981 | Zone Map No. E-23/24 | Sheet 18 Of 21

BHI JOB NO 99496A D5

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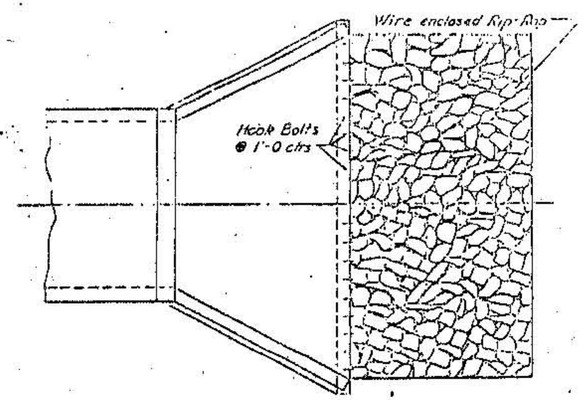
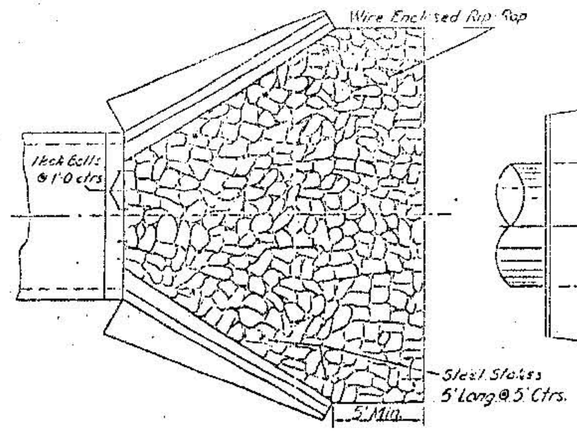
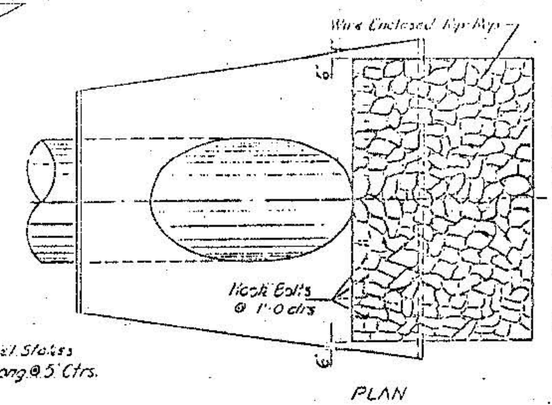
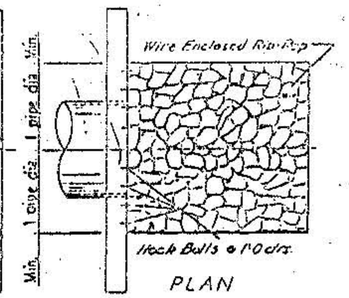
09/29/99

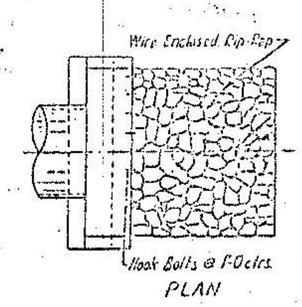


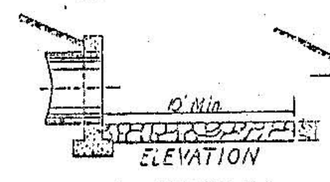


Steel stakes may be railroad rails weighing not less than 30 lbs. per yard, 4" O.D. Std. Strength Galv. Steel Pipe, or 4"x4"x⅜" steel ang'ls,

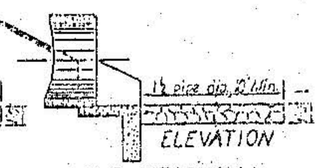




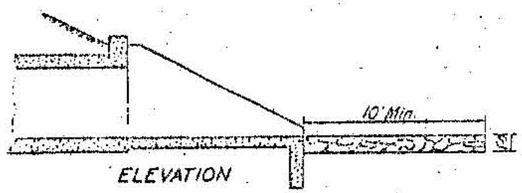




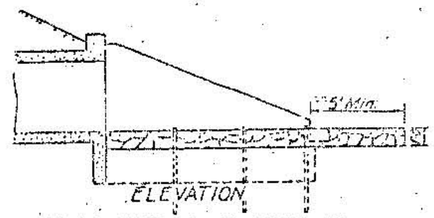
H-1 HEADWALL



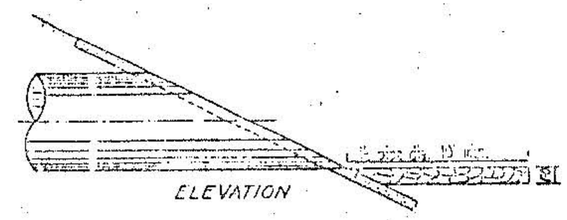
H-2 HEADWALL



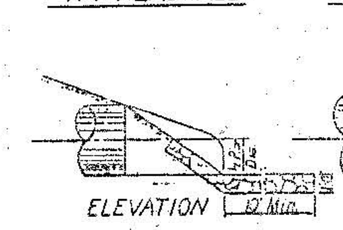
BOX CULVERTS WITH APRONS

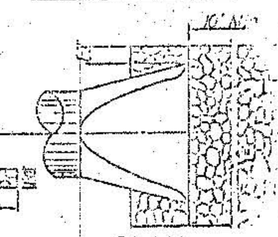


BOX CULVERTS WITHOUT APRONS

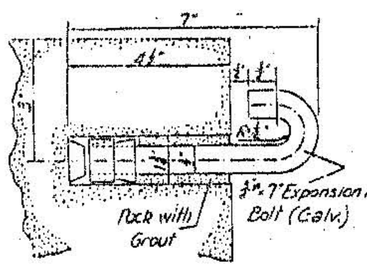


CONCRETE BLANKETS

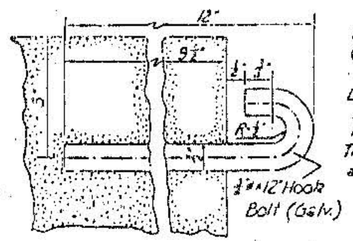




PIPES WITH END SECTIONS



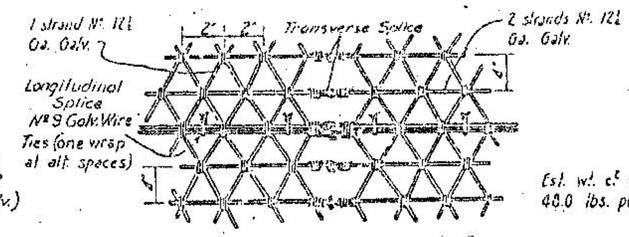
ANCHOR TO EXISTING STRUCTURE

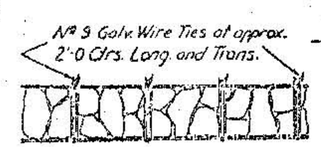


ANCHOR TO NEW STRUCTURE

DETAILS OF HOOK BOLTS

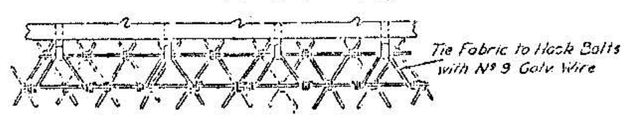
cost of hook bolts in place to be included in unit price bid for riprap.



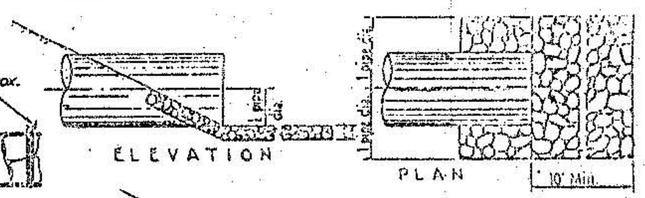


Est. wt. of wire fabric 48.0 lbs. per 100 sq. ft.

DETAILS OF WIRE FABRIC SPLICING



ANCHORING DETAILS



PIPES WITHOUT HEADWALLS

THIS SERIAL REVISED: 3-17-80

GENERAL NOTES

1. Materials and workmanship to conform to N.M.S.H. Department Specifications.
2. Dimensions of Rip-Rap to be determined in field.
3. Riprap is shown for single pipes. For multiple pipe installations extend riprap beyond outside pipes as shown in plan for single pipes, and place riprap between pipes as shown in elevation.
4. For description of wire fabric and permissible alternate pattern, see Standard Drawing Serial BRR-001

Center of riprap to be about 1' min. below outer edges at outlet end. Place riprap to fill channel banks where possible.

TYPICAL SECTION AT END OF RIPRAP

RECORD DRAWING

No.	DESCRIPTION	DATE	BY
1	GALV. CELLTED TWO PLACES	7-18-61	[illegible]
6	Sect. of end of riprap	4-30-70	[illegible]
5	Hook Bolts to be Galvanized	2-4-67	[illegible]
4	Added pipes with end sections.	11-14-61	LB
3	Added pipe without headwalls & revised depth of riprap pipe	11-17-61	[illegible]
2	Increased width @ H-2 Hdwl.	6-21-61	[illegible]
8	Added General Note #4	3-17-80	RLD

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO
STATE HIGHWAY DEPARTMENT

DETAILS OF EROSION CONTROL AT CULVERT OUTLETS

20-5097, 901, 143, 192

Serial EC-61

Approved [illegible] 2-16-61
Bridge Engineer

Drawn by: H.S. [illegible]
Checked by: [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 OF 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 SEPERATE 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 DUPATION.

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 WELL 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.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

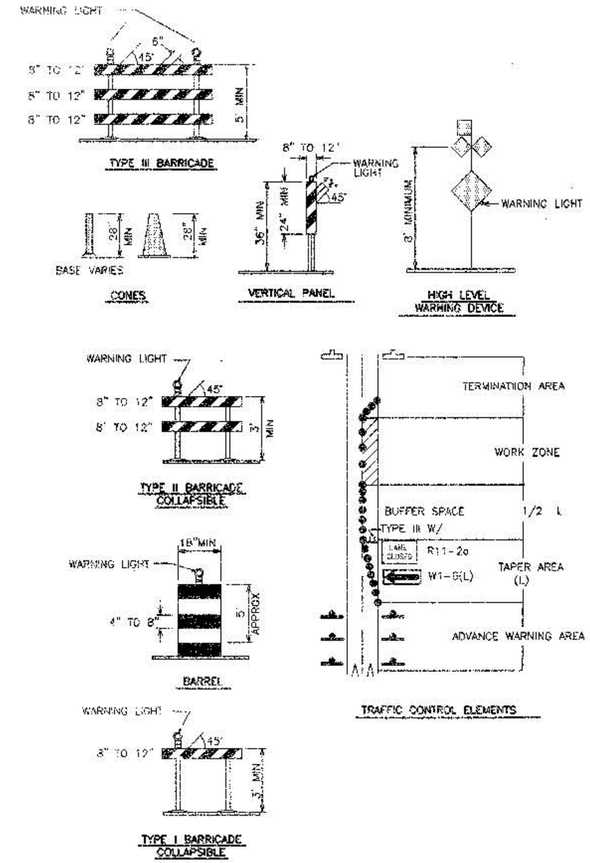
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPTMENT, BOTH PERMANENT AND TEMPORARY.

RECORD DRAWING



LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES – A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
- L 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 MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	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

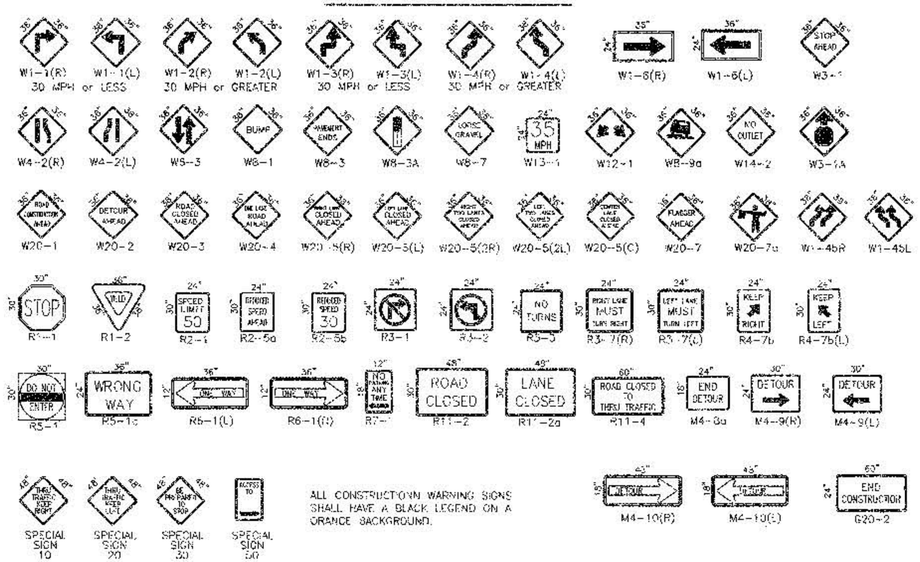
SPEED LIMIT

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

SIGN FACE DETAILS



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

AS-BUILT INFORMATION

CONTRACTOR	DATE
FIELD INSPECTOR'S ACCEPTANCE BY	DATE
VERIFICATION BY DRAWINGS BY	DATE
MICRO-FILM INFORMATION RECORDED BY	DATE

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS REVISIONS DESIGN	BY
		DESIGNED BY	DATE
		DRAWN BY C.O.A. STANDARDS	DATE
		CHECKED BY	DATE

RECORD DRAWING

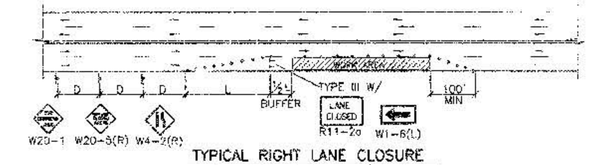
Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

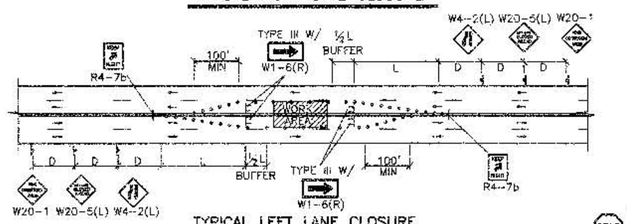
TITLE: UNIT 2 – DESERT HIGHLANDS AT HIGH DESERT
SIGNING AND CONSTRUCTION
TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA	STD			

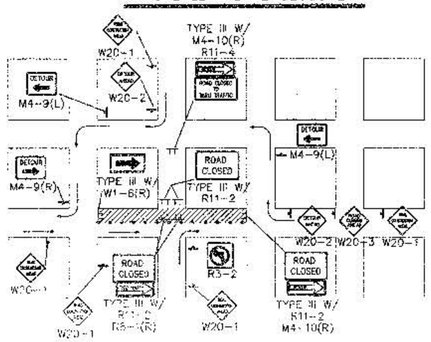
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23	20	21



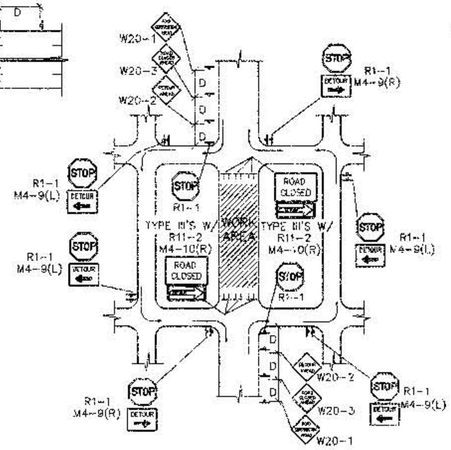
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



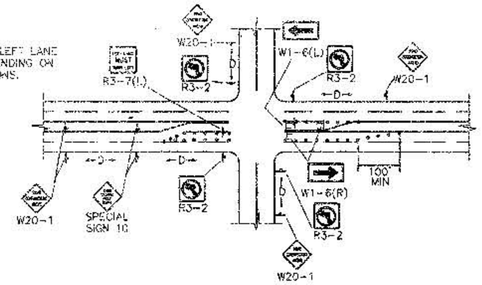
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

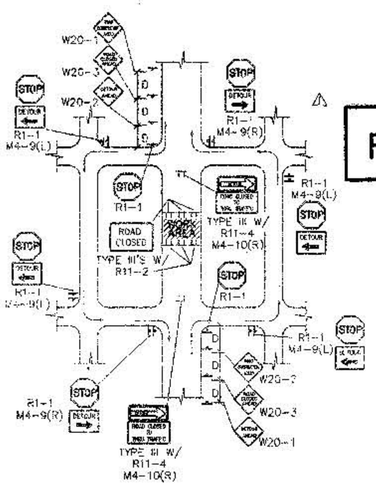
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



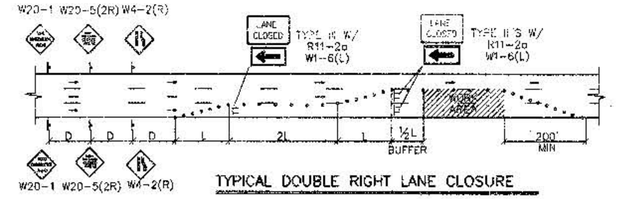
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.

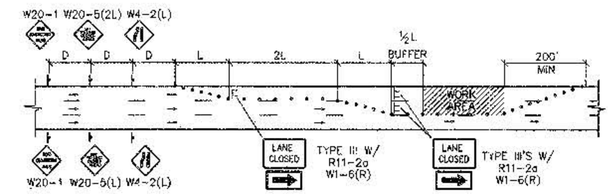


TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

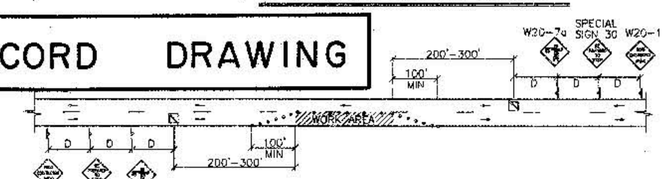


TYPICAL DOUBLE RIGHT LANE CLOSURE

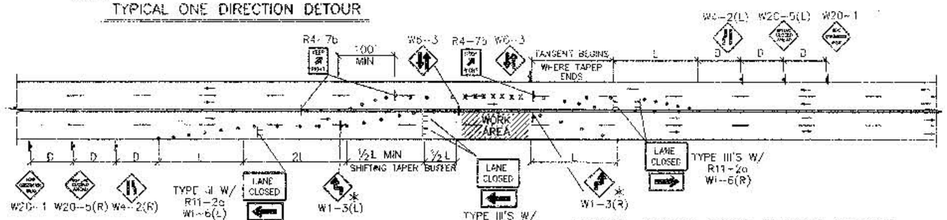


TYPICAL DOUBLE LEFT LANE CLOSURE

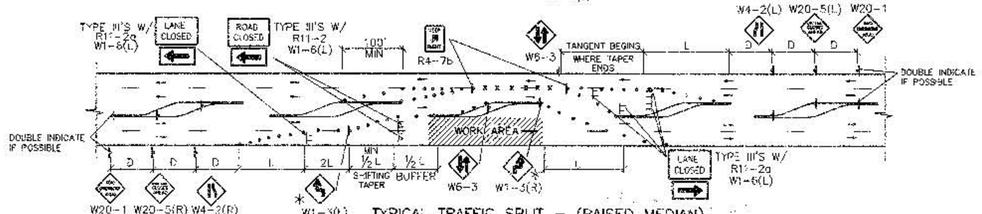
RECORD DRAWING



TYPICAL FLAGGING OPERATION

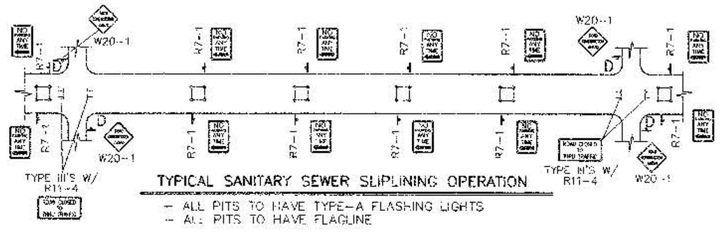


TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



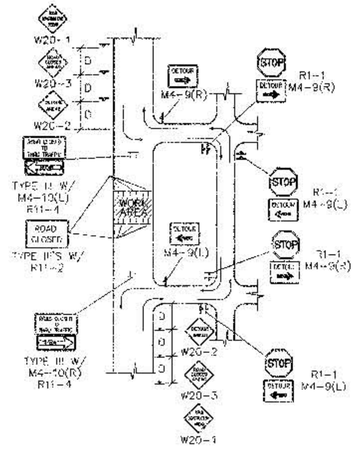
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

GENERAL NOTE:

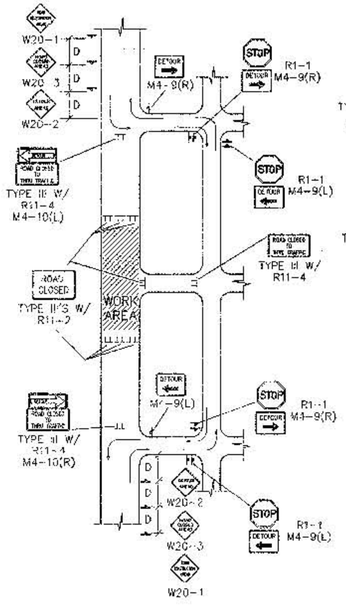
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



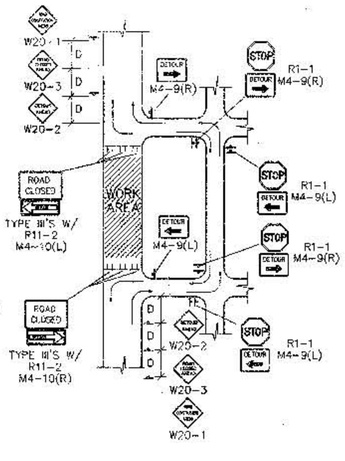
TYPICAL STPEET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS-BUILT INFORMATION
CONTRACTOR DATE
WORK STAKED BY DATE
WORK INSPECTED BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

RECORD DRAWING 02/2002

NO.	DATE	REMARKS REVISIONS DESIGN	BY

DESIGNED BY DATE
DRAWN BY C.O.A. STANDARDS DATE
CHECKED BY DATE

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
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TITLE: UNIT 2 - DESERT HIGHLANDS AT HIGH DESERT
TYPICAL TRAFFIC CONTROL
& SIGNING EXAMPLES (REF MUTCD)

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST REVISION UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA	STD			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
621981	E-23	11	21