

• LEGEND •

MATERIALS

CONCRETE

RIP-RAP

LINES

SUBDIVISION BOUNDARY

PROPERTY LINE (PLAN)

PROPERTY LINE (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE

EARTHWORK

EXISTING

NEW

CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

FLOWLINE

DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE

UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET

SANITARY SEWER

SANITARY SEWER LINE

SANITARY SEWER MANHOLE

SAS SERVICE CONNECTIONS

SAS CAP OR PLUG

ENCASEMENT

WATER

WATER LINE

WATER SERVICE CONNECTIONS

GATE VALVE

FIRE HYDRANT

BUTTERFLY VALVE

REDUCER

WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

CAPS AND PLUGS

ELBOW

CROSS

TEE

MISCELLANEOUS

CHAINLINK FENCE

FIELD FENCE

COMMON YARD WALL

RETAINING WALL

POWER OR TELEPHONE POLE

CONSTRUCTION PLANS

for

TIERRA LA CUEVA

UNIT 2

ALBUQUERQUE, NEW MEXICO

JUNE, 1993

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be used as indicated prior to use on future projects.

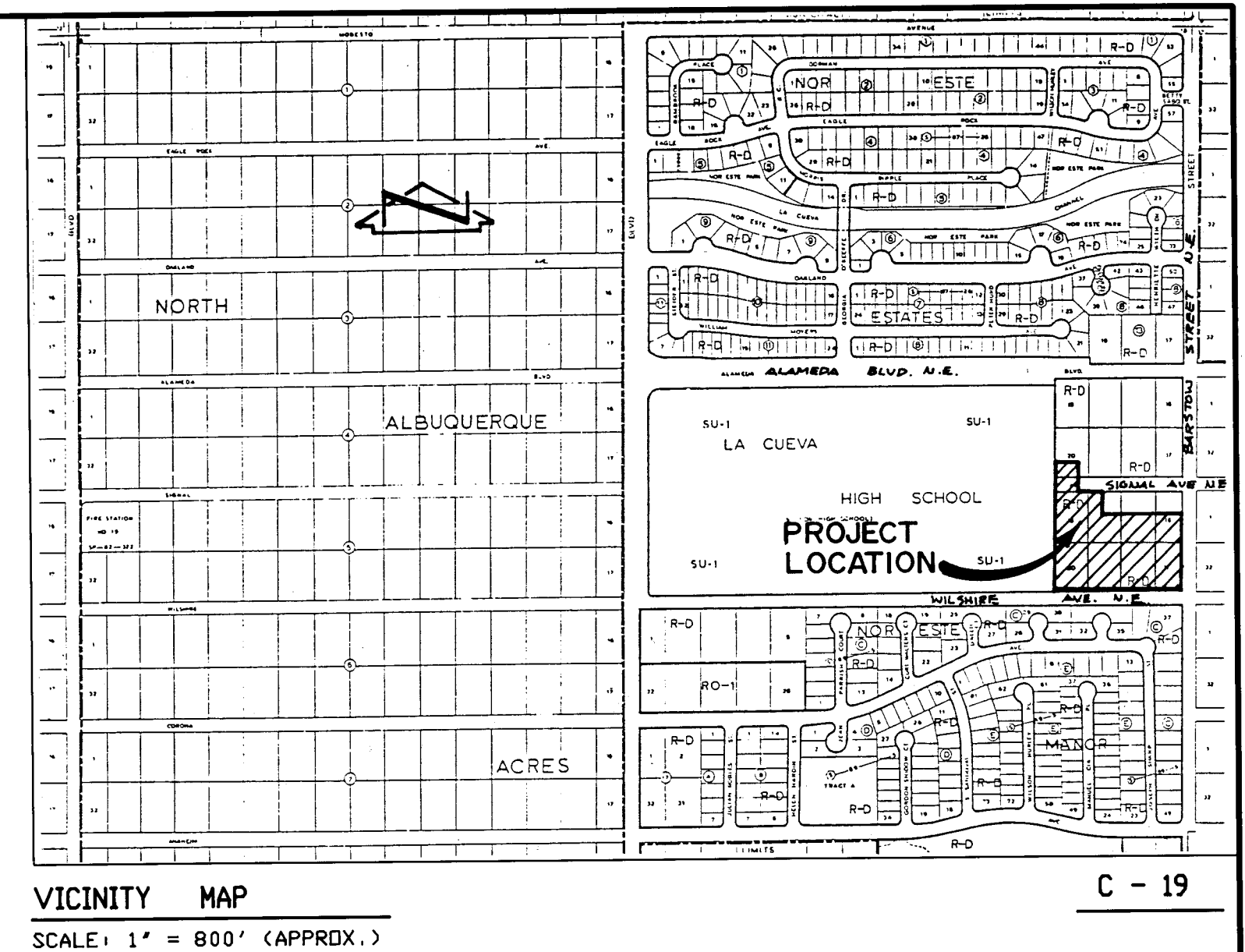
Jeffrey G. Mortensen Date 01-22-94

NEW MEXICO PROFESSIONAL ENGINEER 8547

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RECORD DRAWING



- GENERAL NOTES:
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986. (UPDATE NO.4)
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
 - IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
 - SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
 - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
 - ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
 - SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
 - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION.
 - CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
 - THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
 - ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
 - CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 6-22-94

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVED FOR CONSTRUCTION

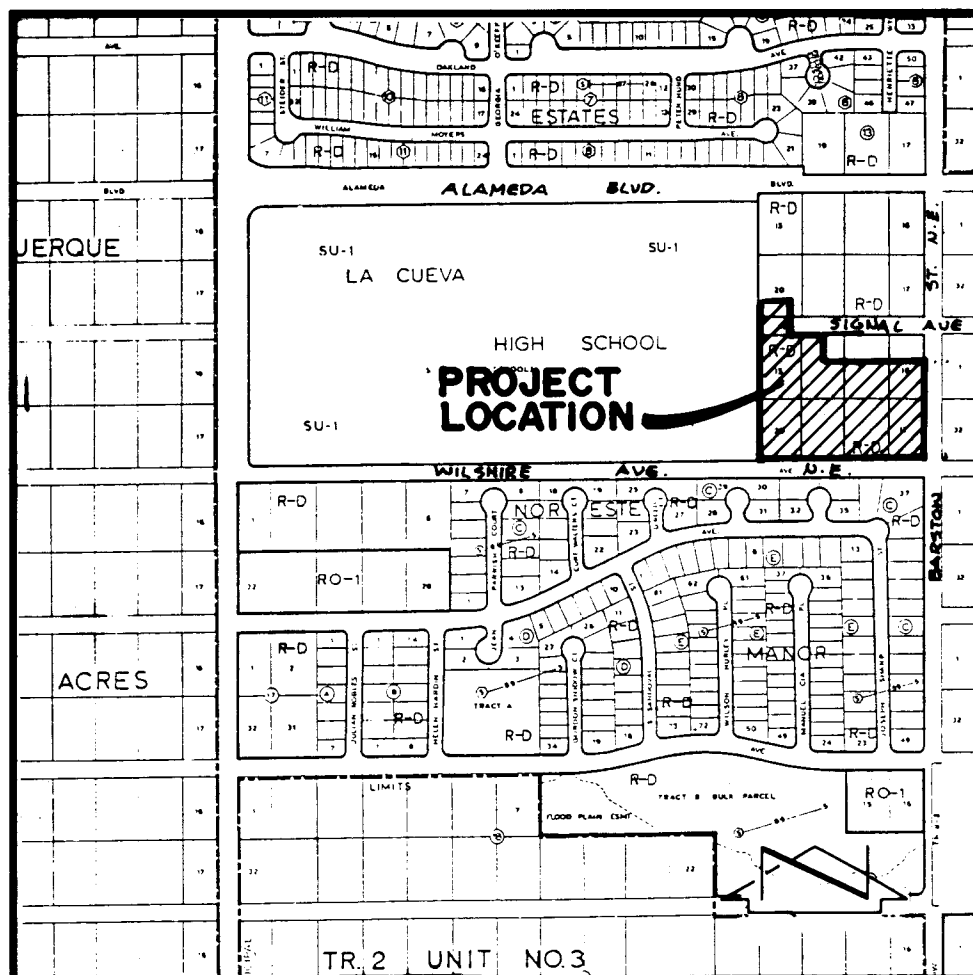
Jeff Mortensen & Associates, Inc.
1605-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (202) 345-4250

PROJECT NO.
4368.91

SHEET 1 OF 14

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
24-4268-910194

SCANNED BY
BY LASON 921044

VICINITY MAP C-19
NO SCALE

Notes:

- A boundary survey was performed on January 5, and 6, 1993. Property corners were set as indicated.
- All distances are ground distances.
- Site located within projected Section 18, Township 11 North, Range 4 East, N.M.P.M.
- Bearings are New Mexico State Plane Grid Bearings, Central Zone.
- 0.18 mile of full-width street is created by this plat.
- The purpose of this plat is to:
 - Dedicate in fee simple the public street right-of-way and grant the easements as shown.
 - Eliminate the interior property lines between Lots 1, 26, and 40, Tierra La Cueva - Unit 1 and Lot 13 and 20, Block 15, North Albuquerque Acres, Tract 2, Unit 3, to create 29 new parcels of land.
 - Incorporate the public right-of-way within Signal Avenue N.E. vacated by V-93-2.
- Upon completion of the construction of the streets, City of Albuquerque approved centerline monuments shall be placed at all City street centerline P.C.'s and P.T.'s, angle points, and street intersections, or as otherwise indicated in lieu of subdivision block corner monumentation. Location of said monuments are designated with a 'C' symbol.

Public Utility easements shown on this plat are ten (10) feet wide and are granted for the common and joint use of:

- The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, poles and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
- The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- U.S. West for the installation, maintenance, and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services including, but not limited to, above ground pedestals and closures.
- Jones Intercable for the installation, maintenance, and service of such lines, cables, 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 (aboveground 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 the National Electric Safety Code caused by construction or pools, decking, or any structures adjacent to within or near easements shown on this plat.

DESCRIPTION

A certain tract of land located within the Corporate Limits of the City of Albuquerque, New Mexico, comprising Lots 1, 26, and 40, Tierra La Cueva - Unit 1, as the same is shown and designated on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on April 14, 1992, Book 92C, Page 62, together with Lot 13 and Lot 20, Block 15, North Albuquerque Acres, Tract 2, Unit 3, as the same is shown and designated on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on September 10, 1991, Book D1, Page 20, together with the portion of Signal Avenue N.E. vacated by V-93-2, and being more particularly described as follows:

Beginning at the northeast corner of the parcel herein described, being the northeast corner of said Lot 40, Tierra La Cueva - Unit 1, also being the southeast corner of Lot 20, Tierra La Cueva - Unit 1, and also being a point on the west right-of-way line of Barstow Street N.E.; thence S 00°09'48" W a distance of 350.03 feet along said right-of-way line; thence along the arc of a curve to the right with DELTA = 90°11'09", R = 30.00 feet, and L = 47.22 feet (Chord Bearing = S 45°15'22" W, Chord Length = 42.50 feet) to a point on the north right-of-way line of Signal Avenue N.E.; thence N 89°39'03" W a distance of 588.70 feet along said right-of-way line to the southwest corner of the parcel herein described, also being the southwest corner of said Lot 20, Block 15, North Albuquerque Acres, and also being the southeast corner of Northeast High School, North Albuquerque Acres, Tract 2, Unit 3, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on September 07, 1984, Book C24, Page 199; thence N 00°08'24" E a distance of 585.37 feet to the northwest corner of the parcel herein described, also being the northwest corner of said Lot 1, Tierra La Cueva - Unit 1; thence S 89°36'53" E a distance of 98.65 feet to the northeast corner of said Lot 1, Tierra La Cueva - Unit 1, also being a point on the west right-of-way line of Tierra Alegre Drive N.E.; thence S 00°23'07" W a distance of 114.08 feet along the west right-of-way line of Tierra Alegre Drive N.E. to a point of intersection with the south right-of-way line of Signal Avenue N.E.; thence S 89°51'36" E a distance of 114.74 feet along the south right-of-way line of Signal Avenue N.E.; thence along the arc of a curve to the left with DELTA = 03°49'01", R = 255.00 feet and L = 16.99 feet (Chord Bearing = N 88°13'54" E, Chord Length = 16.98 feet) along said right-of-way line to the northeast corner of said Lot 26, Tierra La Cueva - Unit 1; thence S 00°09'48" W a distance of 96.00 feet to the southeast corner of said Lot 26, Tierra La Cueva - Unit 1; thence N 86°06'53" E a distance of 79.31 feet; thence S 89°50'12" E a distance of 310.00 feet to the point of beginning and containing 6.1515 acres more or less.

FLOODPLAIN DEDICATION

Dedication to the ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, Grantee, its successors and assigns, of lands, rights of way, and easements designated herein as "Flood Plain Easement" or "Drainage Easement" is with the full and free consent and in accordance with the desire of the undersigned owner, Grantor. This dedication is for drainage, flood control, conveyance of storm water, and the construction, operation, and maintenance of, and access to such facilities. Except by the written approval of Grantee, no fence, wall, building, or other obstruction may be placed or maintained in said easements, and there shall be no alteration of the grades or contours in said easement. The granting of easements shall not obligate the Grantee to maintain natural arroyos, drainage channels, or facilities that do not meet the standards of the Grantee for design and construction, nor shall this granting require the protection of property lying outside of the easement granted. Grantee shall only maintain property and/or improvements that it specifically agrees, by written agreement filed for public record, to maintain. Unless Grantee specifically agrees, by such written agreement, to maintain property and/or improvements, such maintenance responsibility shall remain with the Grantor, its successors or assigns. Landscaping or maintenance work, by the Grantor, within the easement hereby conveyed shall not alter the present flowline, capacity, or permeability of the present flood way area, except in an emergency. If emergency work is performed, Grantor shall notify the Grantee as soon as practical thereafter. Grantee will then determine if the emergency work can remain or must be removed or modified. Safe locations for structures built on lands adjacent to the real property described herein may be substantially outside of the area described herein. Any portion of any lands, right of way or easements granted herein shall revert to the Grantor, its successors or assigns, as and to the extent said portion is declared unnecessary for Flood control or drainage by the Board of Directors of the Albuquerque Metropolitan Arroyo Flood Control Authority. Any reversion shall be conveyed by quitclaim deed. Vacation approval consistent with the City of Albuquerque or Bernalillo County Subdivision Ordinances will also be required.

H. Gordon Pickard, Jr., President, Sunco Development Company
Date 3/1/93

PUM EASEMENT RELEASE APPROVAL

Public Service Company of New Mexico does hereby release, waive, quitclaim and discharge its right, title, and interest in the easements (granted by prior plat, replat or document) shown to be vacated on this plat:

PUBLIC SERVICE COMPANY OF NEW MEXICO
By: *Robert Roberts*
Notary Public

STATE OF NEW MEXICO)
COUNTY OF BERNILLO) SS

The foregoing instrument was acknowledged before me on this 25th day of March, 1993 by *Robert Roberts*, 1993 by the Public Service Company of New Mexico, a New Mexico Corporation, on behalf of said corporation.

Robert Roberts
Notary Public
My Commission Expires: 8-9-93

SUBDIVISION PLAT OF LOTS 1 THROUGH 29 TIERRA LA CUEVA - UNIT 2 ALBUQUERQUE, NEW MEXICO FEBRUARY, 1993

DEDICATION AND FREE CONSENT

The undersigned owner of the land shown hereon does hereby consent to the subdivision of said land in the manner shown on this plat and does hereby dedicate in fee simple the public street and drainage rights-of-way and grant the easements as shown hereon, including the rights of ingress and egress and the right to trim interfering trees.

H. Gordon Pickard, Jr.
H. Gordon Pickard, Jr., President, Sunco Development Company
Date 3/1/93

ACKNOWLEDGEMENT
STATE OF NEW MEXICO)
COUNTY OF BERNILLO) SS

The foregoing instrument was acknowledged before me on this 12th day of March, 1993 by *Charles Blalock*
Notary Public

APPROVALS: DRB CASE NO. 93-2, V-93-2

PLANNING DIRECTOR, CITY OF ALBUQUERQUE, NEW MEXICO DATE

UTILITY DEVELOPMENT, CITY OF ALBUQUERQUE, NEW MEXICO DATE

CITY ENGINEER, CITY OF ALBUQUERQUE, NEW MEXICO DATE

A.M.A.F.C.A. DATE

TRANSPORTATION DEVELOPMENT, CITY OF ALBUQUERQUE, NEW MEXICO DATE

PARKS AND RECREATION, CITY OF ALBUQUERQUE, NEW MEXICO DATE

William P. Pettit
CITY SURVEYOR, CITY OF ALBUQUERQUE, NEW MEXICO 03/15/93
Date

Martin Ebert Jr.
REAL PROPERTY, CITY OF ALBUQUERQUE, NEW MEXICO 3-26-93
Date

Rob Roberts
PUBLIC SERVICE COMPANY OF NEW MEXICO 3-20-93
Date

Mattie Weatherly
U.S. WEST COMMUNICATIONS 3-26-93
Date

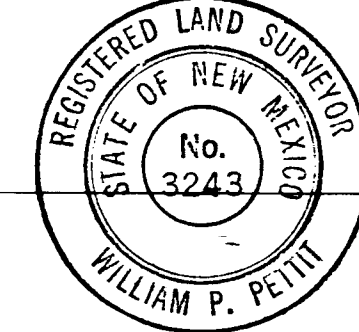
Joe Dunlap
JONES COMPANY OF NEW MEXICO 3-24-93
Date

Kam A. Shu
JONES INTERCABLE 3-25-93
Date

CERTIFICATION

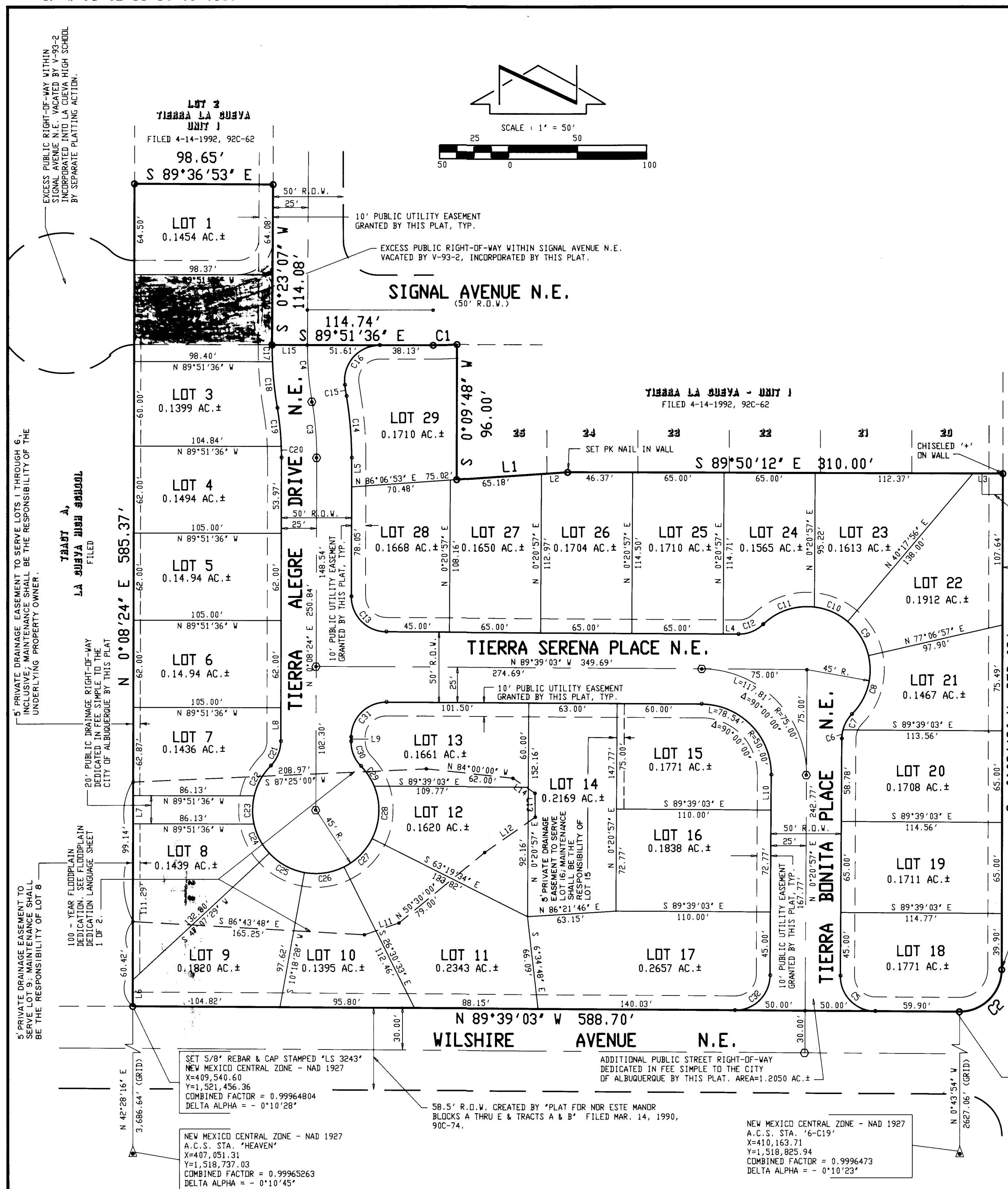
I, William P. Pettit, a registered Professional Surveyor under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my supervision, shows all easements noted in the commitment for title insurance prepared by Albuquerque Title Company, Inc. dated 3-7-1993, (File No. 9728307W); meets the minimum requirements of monumentation and surveys of the Albuquerque Subdivision Ordinance, complies with the minimum standards for surveying in New Mexico, and is true and correct to the best of my knowledge and belief.

William P. Pettit
William P. Pettit, N.M.P.S. 3243
DATE 3/11/93



JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS SURVEYORS (SOS) 345-4250

SHEET 1 OF 2.



RECORD DRAWING

SUBDIVISION PLAT OF LOTS 1 THROUGH 29 TIERRA LA CUEVA - UNIT 2 ALBUQUERQUE, NEW MEXICO FEBRUARY, 1993

LINE	BEARING	DISTANCE
L1	N 86°06'53" E	79.31
L2	N 86°06'53" E	18.68
L3	S 89°50'12" E	21.25
L4	N 89°39'03" W	10.88
L5	N 0°08'24" E	20.68
L6	N 0°08'24" E	18.71
L7	N 0°08'24" E	20.00
L8	N 0°08'24" E	23.88
L9	N 0°08'24" E	33.13
L10	S 0°20'57" W	25.00
L11	N 71°10'00" E	26.00
L12	N 55°00'00" E	44.00
L13	N 0°35'00" W	17.00
L14	N 56°00'00" W	19.00
L15	S 89°51'36" E	25.00

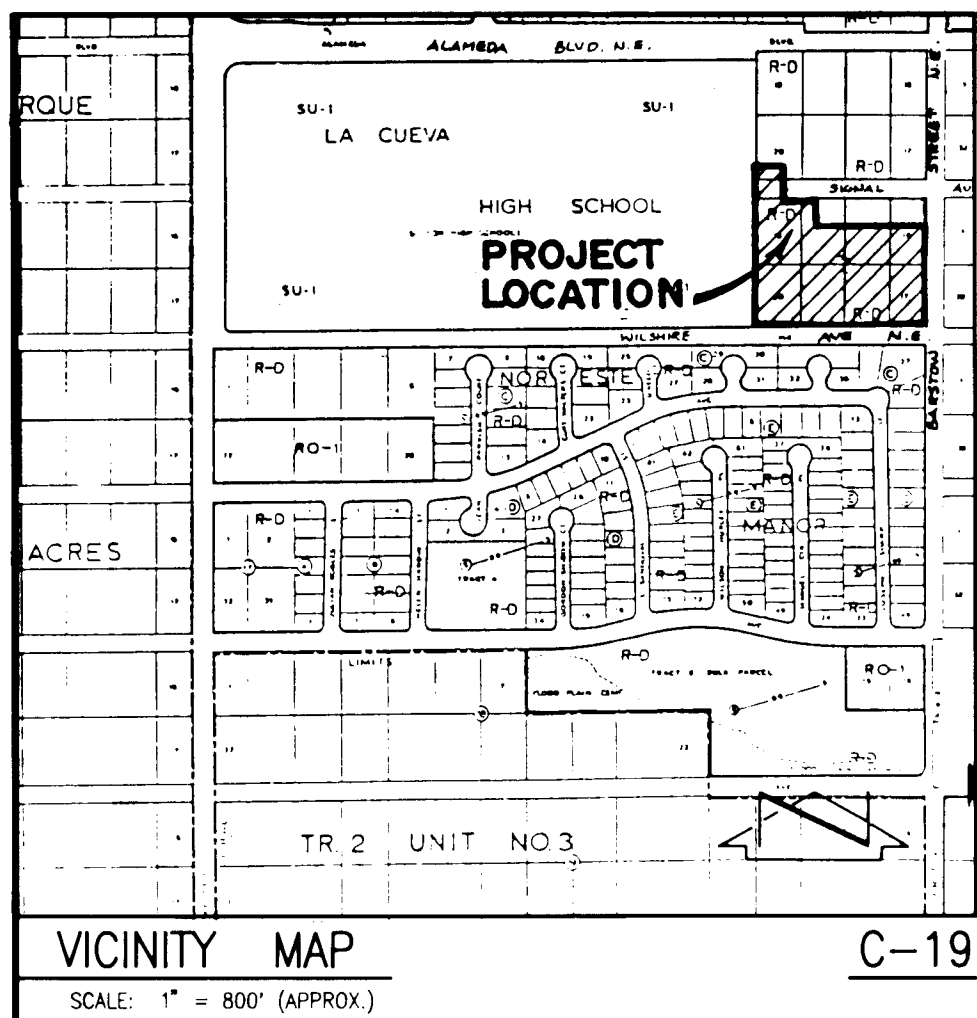
CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	16.99	3°49'01"	255.00	16.98	N 88°13'54" E	8.50
C2	47.22	90°11'09"	30.00	42.50	S 45°15'22" E	30.10
C3	39.72	9°53'38"	230.00	39.67	N 4°48'25" W	19.91
C4	40.70	10°08'21"	230.00	40.65	N 4°41'03" W	20.40
C5	35.27	90°00'00"	25.00	35.36	N 4°39'03" W	25.00
C6	6.28	14°23'51"	25.00	6.27	N 7°32'53" E	3.16
C7	13.10	30°01'24"	25.00	12.95	N 29°45'20" E	6.70
C8	45.28	57°38'55"	45.00	43.39	N 15°56'25" E	24.76
C9	28.92	36°49'01"	45.00	28.42	N 31°17'34" W	14.98
C10	26.23	33°24'04"	45.00	25.86	N 66°24'06" W	13.50
C11	40.03	50°57'50"	45.00	38.72	S 71°24'57" W	21.45
C12	19.38	44°24'55"	25.00	18.90	S 68°08'29" W	10.21
C13	39.18	89°47'27"	25.00	35.29	N 44°45'20" W	24.91
C14	44.03	9°53'38"	255.00	43.98	N 4°48'25" W	22.07
C15	7.97	2°13'36"	205.00	7.97	N 8°38'27" W	3.98
C16	42.62	97°40'02"	25.00	37.64	N 41°18'23" E	28.59
C17	12.00	2°41'46"	255.00	12.00	S 0°59'13" E	6.00
C18	33.02	7°25'08"	235.00	33.00	S 6°02'40" E	16.53
C19	27.37	7°38'59"	205.00	27.35	S 5°55'44" E	13.71
C20	8.03	2°14'39"	205.00	8.03	S 0°58'55" E	4.02
C21	19.38	44°24'55"	25.00	18.90	S 22°20'52" W	10.21
C22	24.80	31°34'33"	45.00	24.49	S 28°46'03" W	12.72
C23	20.17	25°49'45"	45.00	20.00	S 0°08'24" W	10.26
C24	23.70	30°10'33"	45.00	23.43	S 27°47'15" E	12.13
C25	28.92	36°49'01"	45.00	28.42	S 61°17'02" E	14.98
C26	28.92	36°49'01"	45.00	28.42	N 81°53'57" E	14.98
C27	28.92	36°49'01"	45.00	28.42	N 45°04'56" E	14.98
C28	38.43	48°56'02"	45.00	37.28	N 2°12'25" E	20.48
C29	17.29	22°00'55"	45.00	17.18	N 33°16'04" W	8.75
C30	19.38	44°24'55"	25.00	18.90	N 22°04'04" W	10.21
C31	39.36	90°12'33"	25.00	35.42	N 45°14'40" E	25.00
C32	39.27	90°00'00"	25.00	39.36	S 45°20'57" W	25.00

SET 5/8" REBAR & CAP STAMPED "LS 3243"
NEW MEXICO CENTRAL ZONE - NAD 1927
X=410,130.16
Y=1,521,452.79
COMBINED FACTOR = 0.99964716
DELTA ALPHA = -0°10'24"



JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS SURVEYORS (SOS) 345-4250

JOB #921045B

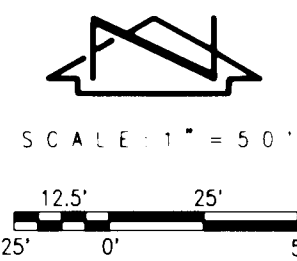


PROJECT BENCHMARK

CITY OF ALBUQUERQUE BENCHMARK "HEAVEN", A STANDARD USC & GS BRASS TABLET STAMPED, "HEAVEN 1969", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND. LOCATED AT THE ENTRANCE WAY TO THE "GATE OF HEAVEN" CEMETARY 0.15 MILE WEST OF THE INTERSECTION OF PASEO DEL NORTE N.E. AND WYOMING BLVD. N.E. STATION IS LOCATED ON THE SOUTH SIDE OF PASEO DEL NORTE. ELEVATION = 5378.78' (M.S.L.D.)

T.B.M.

A CHISELED "C", ON TOP OF EXISTING WALL @ SE CORNER OF LA CUEVA HIGH SCHOOL SITE AS SHOWN BELOW.
ELEVATION = 5465.72' (M.S.L.D.)



The following items concerning the Tierra La Cueva Unit 2 Drainage Plan are contained herein:

DRAINAGE PLAN

1. Vicinity Map
2. Grading Plan
3. Calculations
4. Grading Notes
5. Sections & Details

As shown by the Vicinity Map, the site is located at the northwest corner of the intersection of Wilshire Avenue N.E. and Barstow Street N.E. The site is bounded on the north by Tierra La Cueva Unit 1, and on the west by La Cueva High School. This plan is a revision to the previously approved plan. The significant change is that Lots 13 and 20, Block 15, North Albuquerque Acres, Tract 2, Unit 3, have been combined with the previously platted Lot 40, Tierra La Cueva - Unit 1. In response, the internal lot grading and street configuration have been modified. All offsite improvements, which consist of Barstow Street N.E. and Wilshire Avenue N.E., are unchanged by this plan. This plan is an update to the internal grading and drainage of the subdivision.

As shown by Panel 10 of 50 of the National Flood Insurance Program, Flood Insurance Rate Maps for the City of Albuquerque, dated October 1, 1983, a portion of this site lies within a designated flood hazard zone. That zone is designated "AD" (DEPTH 1). A Conditional Letter of Map Revision (CLMR) is in progress. That CLMR addresses the removal of the above referenced floodplain. In addition, the Carrington Subdivision, which is in the design and development stage, lies upstream from this site. The development of that property will eliminate the offsite flows currently impacting this property. In the event that the Carrington Subdivision does not proceed, then the previous plans for diverting the offsite flows will be effected. The floodplain continues onto the La Cueva High School site. At the time that the La Cueva High School site was platted, a floodplain easement, dedicated to AMAFCA, was created. Structural improvements have been constructed within that easement to receive the existing, undeveloped flows which cross this property and enter the high school site. The improvements on the high school site were designed for an offsite flow of 120 cfs. The developed runoff to be discharged to this facility by the proposed subdivision will be considerably less than that for which the improvement was designed. The developed runoff to be discharged to this point has been calculated at 18.9 cfs, which is the developed runoff from Basin B. The downstream drainage structure was designed by this office and certified as to compliance with the approved design on November 18, 1988. In closing, the downstream structure has more than adequate capacity to receive the developed runoff from this site.

The Grading Plan shows 1) existing grades indicated by spot elevations and contours at 1'0" intervals, 2) proposed grades indicated by spot elevations, top-of-curb elevations, and pad elevations, 3) the limit and character of the existing improvements, 4) the limit and character of the proposed improvements, and 5) continuity between the existing and proposed grades. Further project specifications are enumerated in the grading notes which accompany this submittal. The site consists of three drainage basins. Basin A is a relatively small area which discharges via Tierra Alegre N.E. to Alameda Boulevard N.E. This small basin drains into the La Cueva Arroyo watershed. Based upon the previous submittal for Tierra La Cueva Unit 1, this area is allowed free discharge. Basin B is the majority of the site. Basin B drains internally to the existing drainage structure which is constructed on the La Cueva High School site. The capacity of that facility is addressed above. The third basin is Basin C, which is also a relatively small area. That basin discharges directly into Wilshire Avenue N.E. Wilshire Avenue N.E. drains in a westerly direction to Wyoming Boulevard N.E. The downstream capacity has been addressed by the previous submittal for this project.

The calculations which appear herein analyze the existing and developed conditions for the 6-hour, 100-year rainfall event. The calculations have been performed in accordance with the procedure for "40 Acres and Smaller Basins" as set forth in Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated August 1991. As shown by these calculations, an increase in runoff is anticipated due to the proposed development. Downstream development will experience a decrease, however, due to the upstream diversion of runoff in accordance with the Carrington Subdivision and/or the Barstow Street Storm Drain as more fully described in the previous submittal which was approved on September 22, 1992, C19/D9A, for Preliminary Plat and Conditional Letter of Map Revision. Hydraulic conditions also accompany this street for street capacity and public and private drainage facility capacities. As shown by these calculations, the improvements as designed have adequate capacity to handle the developed runoff from this site.

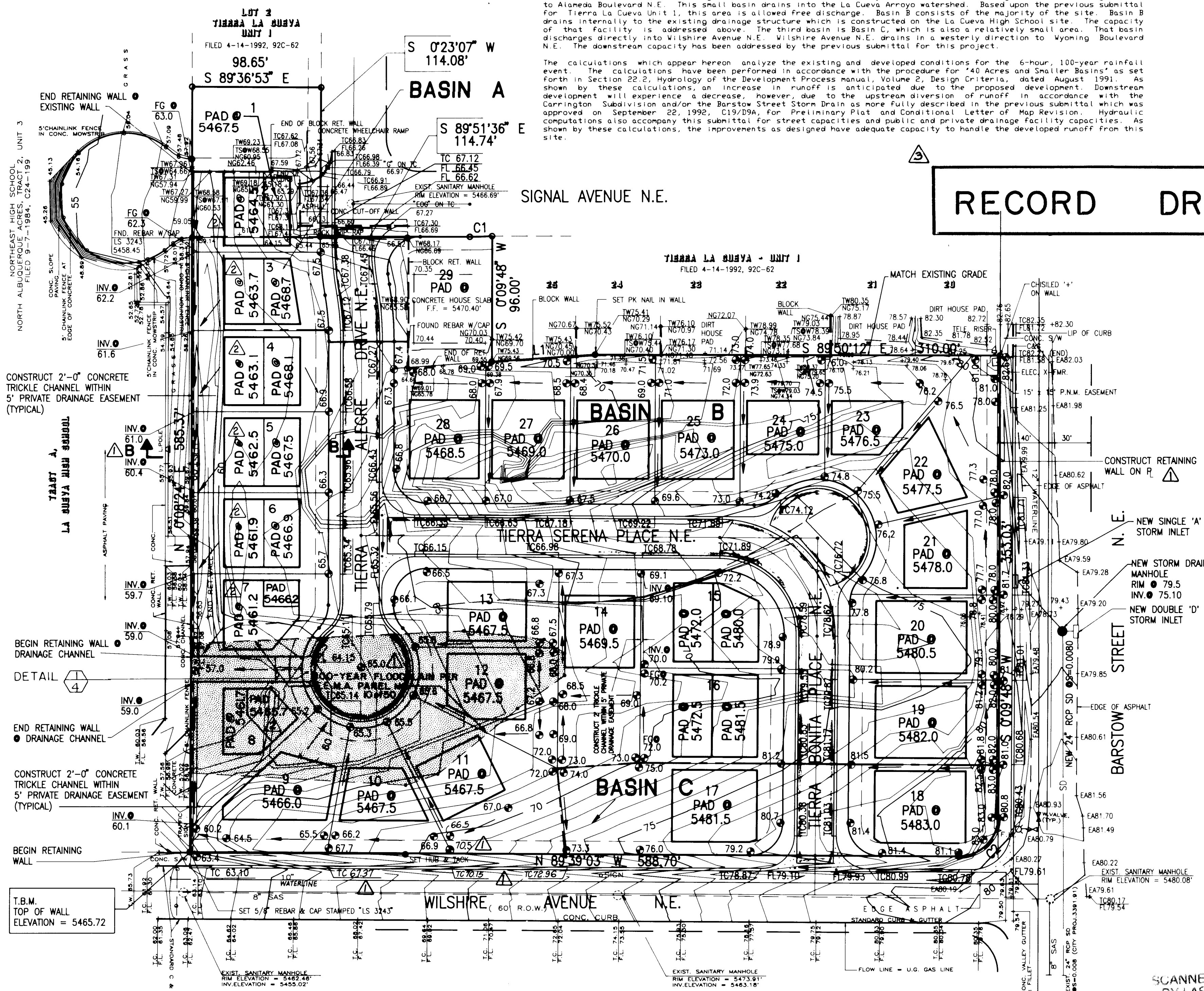
RECORD DRAWING

CONSTRUCTION NOTES

1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call Service 266-1990, for location of existing utilities.
2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay.
3. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
5. If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damage caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.

EROSION CONTROL MEASURES

1. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary berms at the property lines 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.



Site Characteristics

1. Precipitation Zone 3
2. $P_{6,100} = P_{360} = 2.60$
3. Total Area (A_T) 5.88
4. Existing Land Treatment

Treatment Area (sf/ac)

A 256,020/5.88 100%

5. Developed Land Treatment

a. Basin A

$$N = 2 \text{ Lots}/0.29 \text{ Ac} = 6.9 \text{ du}/\text{Ac}$$

$$\% D = 7(N^2 + 5N)^{1/2} = 63\% = 0.18 \text{ Ac}$$

$$\% B = 100 - \% D = 37\% = 0.11 \text{ Ac}$$

b. Basin B

$$N = 23 \text{ Lots}/5.09 \text{ Ac} = 4.5 \text{ du}/\text{Ac}$$

$$\% D = 7(N^2 + 5N)^{1/2} = 46\% = 2.34 \text{ Ac}$$

$$\% B = 100 - \% D = 54\% = 2.75 \text{ Ac}$$

c. Basin C

$$N = 2 \text{ Lots}/0.49 \text{ Ac} = 4.1 \text{ du}/\text{Ac}$$

$$\% D = 7(N^2 + 5N)^{1/2} = 43\% = 0.21 \text{ Ac}$$

$$\% B = 100 - \% D = 57\% = 0.28 \text{ Ac}$$

Existing Condition

1. Volume

$$E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$$

$$E_w = [(0.66)(5.88)]/5.88 = 0.66 \text{ in}$$

$$V_{100} = (E_w/12)A_T = [(0.66)/12]5.88 = 0.323 \text{ ac. ft.} = 14,090 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$$

$$Q_p = Q_{100} = (1.87)(5.88) = 11.0 \text{ cfs}$$

Developed Condition

a. Basin A

1. Volume

$$E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$$

$$E_w = [(0.92)(0.11) + (2.36)(0.18)]/0.29 = 1.81 \text{ in}$$

$$V_{100} = (E_w/12)A_T = (1.81/12)0.29 = 0.044 \text{ ac. ft.} = 1,920 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$$

$$Q_p = Q_{100} = (2.60)(0.11) + (5.02)(0.18) = 1.2 \text{ cfs}$$

b. Basin B

1. Volume

$$E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$$

$$E_w = [(0.92)(2.75) + (2.36)(2.34)]/5.09 = 1.58 \text{ in}$$

$$V_{100} = (E_w/12)A_T = (1.58/12)5.09 = 0.66 \text{ ac. ft.} = 28,640 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$$

$$Q_p = Q_{100} = (2.60)(2.75) + (5.02)(2.34) = 18.9 \text{ cfs}$$

c. Basin C

1. Volume

$$E_w = (E_{wA} + E_{wB} + E_{wC} + E_{wD})/A_T$$

$$E_w = [(0.92)(0.28) + (2.36)(0.21)]/0.49 = 1.54 \text{ in}$$

$$V_{100} = (E_w/12)A_T = (1.54/12)(0.49) = 0.063 \text{ ac. ft.} = 2,740 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD}$$

$$Q_p = Q_{100} = (2.60)(0.28) + (5.02)(0.21) = 1.8 \text{ cfs}$$

d. Total Developed Basins

1. Volume

$$V_{100} = V_{100A} + V_{100B} + V_{100C}$$

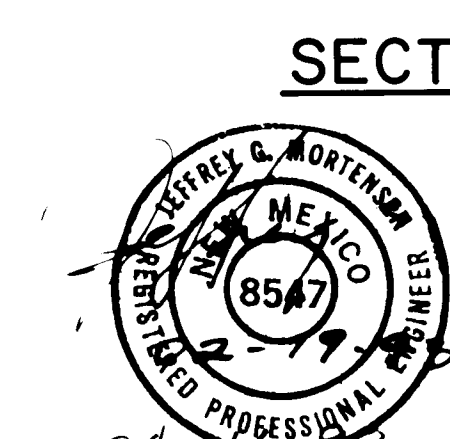
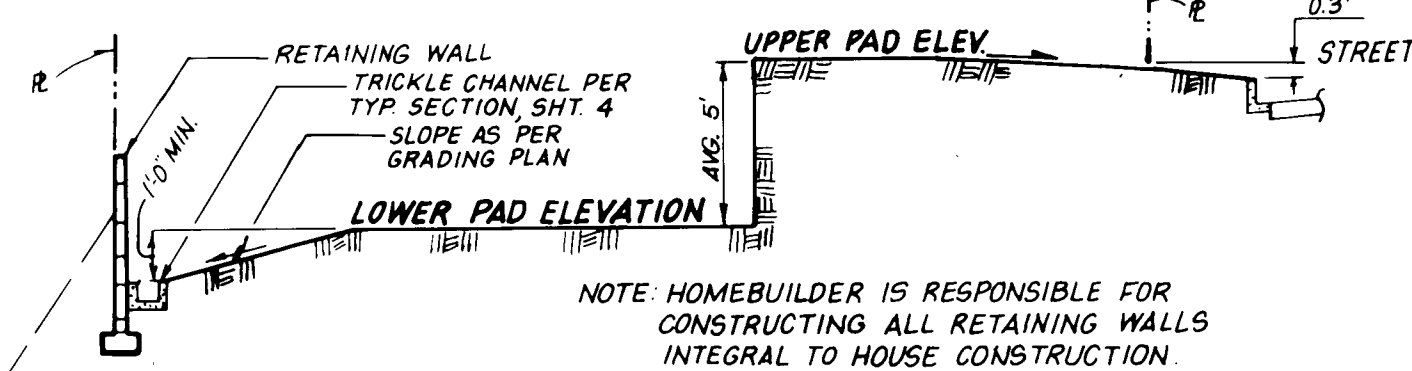
$$V_{100} = 1,920 + 28,640 + 2,740 = 33,300 \text{ cf}$$

2. Peak Discharge

$$Q_{100} = 1.2 + 18.9 + 1.8 = 21.9 \text{ cfs}$$

Comparison

1. $\Delta V_{100} = 28,640 - 14,090 = 14,550 \text{ cf (increase)}$
2. $\Delta Q_{100} = 21.9 - 11.0 = 10.9 \text{ cfs (increase)}$



PROJECT NO. 4368.91



JEFF MORTENSON & ASSOCIATES, INC.
6000 B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250

GRADING AND DRAINAGE PLAN
TIERRA LA CUEVA - UNIT 2

APPROVED FOR ROUGH GRADING

Jeff Mortenson 5-21-93
HYDROLOGIST

DESIGNED BY J.G.M.

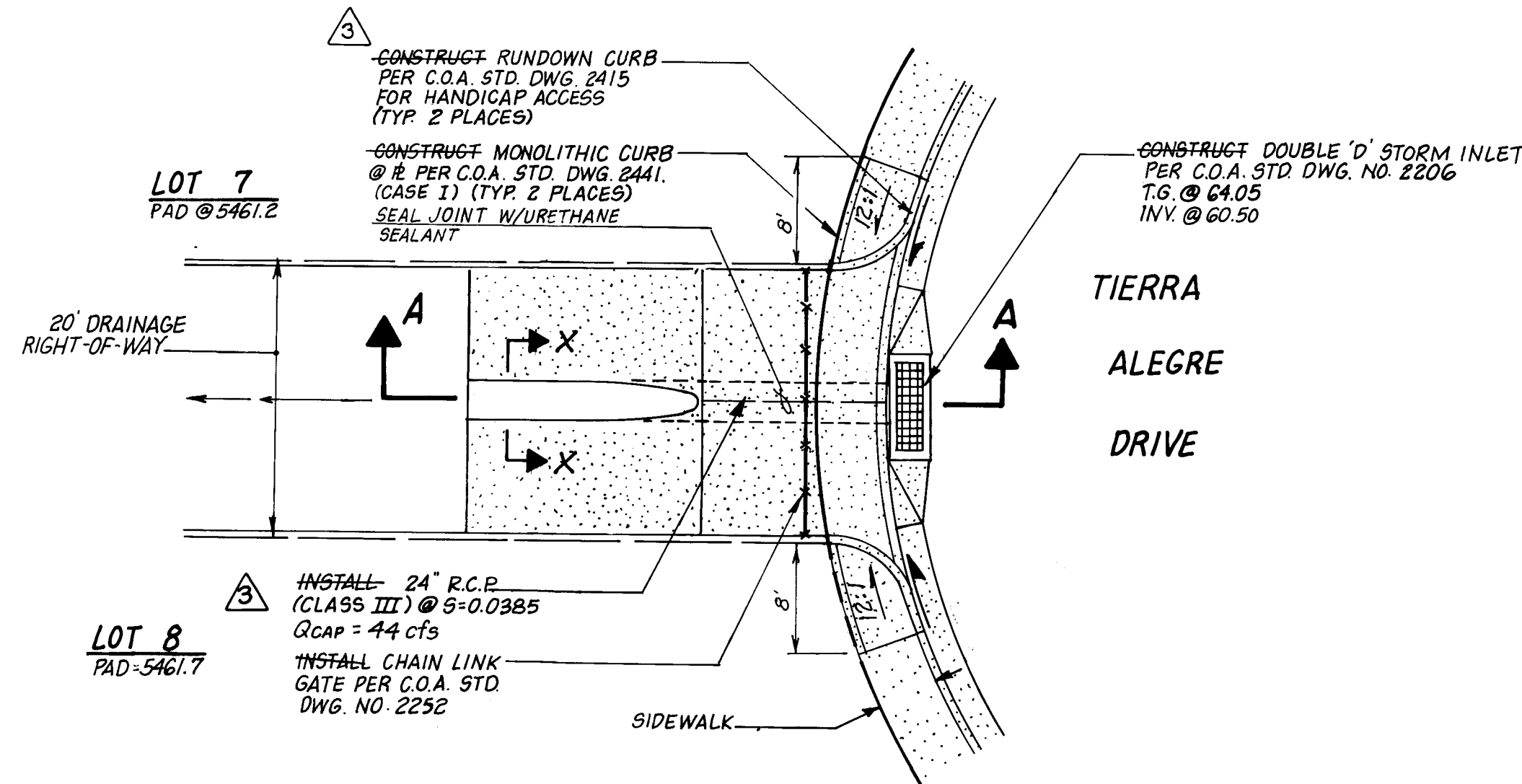
DRAWN BY ACAD

APPROVED BY J.G.M.

NL	DATE	BY	REVISIONS	JOB NO.
1	04/93	JGM	CLARIFY RETAINING WALLS: SECTION B-B; ADD WILSHIRE T.C.s; LABEL FLOODPLAIN.	921044
2	04/93	JGM	REVISE SECTION B-B	DATE 02-1993
3	01/94	G.M.	RECORD DRAWING	SHEET 3 OF 14

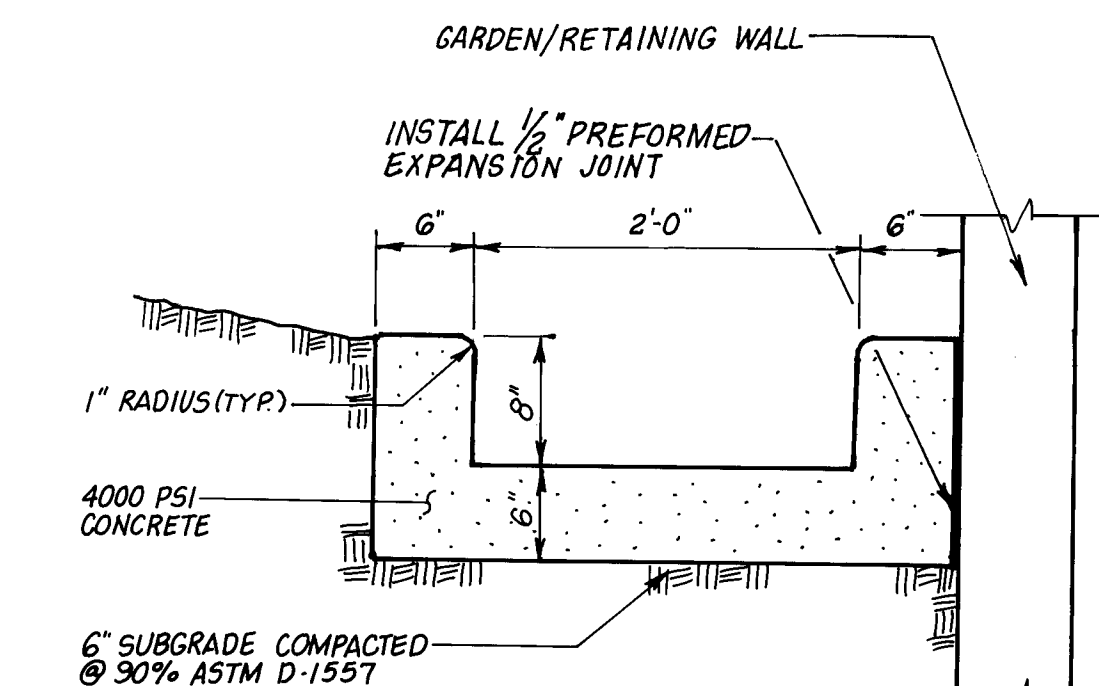
GRADING NOTES:

1. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557; HOUSE PADS SHALL BE COMPACTED AT 95% ASTM D-1557.
2. THE PAD ELEVATIONS SHOWN HEREON ARE FOR ROUGH GRADING PURPOSES.
3. FINISHED FLOOR ELEVATIONS MAY VARY FROM THE PAD ELEVATIONS AND WILL BE DETERMINED AS A FUNCTION OF INDIVIDUAL HOUSE DESIGN.
4. FINISHED FLOOR ELEVATIONS SHOULD BE ESTABLISHED AT A MINIMUM OF 6 INCHES ABOVE PAD ELEVATIONS; DEVIATIONS FROM THESE GUIDELINES MUST BE BASED ON THE RECOMMENDATIONS AND/OR DESIGN OF A COMPETENT DESIGN PROFESSIONAL.
5. NO CROSS-LOT DRAINAGE WILL BE ALLOWED UNLESS PROVIDED FOR BY PRIVATE DRAINAGE EASEMENT.
6. RETAINING WALLS SHALL BE CONSTRUCTED BY THE DEVELOPER.
7. YARD (GARDEN) WALLS SHALL BE CONSTRUCTED BY THE LOT OWNER OR ITS BUILDER.
8. THE FINISHED GRADING OF EACH LOT SHALL BE ACCOMPLISHED BY THE LOT OWNER OR ITS BUILDER. ALL RUNOFF MUST BE DIRECTED TO THE STREETS OR DRAINAGE EASEMENT (IF APPLICABLE).
9. LOTS 1 THROUGH 8 INCLUSIVE AND LOTS 15 AND 16 WILL BE CONSTRUCTED WITH LOWER LEVELS WHICH WILL LIE BELOW THE ADJACENT STREET GRADE. THE UPPER LEVEL WILL BE ESTABLISHED ABOVE THE FINISHED STREET GRADE.
10. ALL DEVELOPED ROOF AND SIDE YARD RUNOFF MUST BE DRAINED TO THE STREET.
11. MAXIMUM SLOPES SHALL BE 3:1; MINIMUM SLOPES SHALL BE 1%.
12. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
13. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
14. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
15. 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.
16. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. AN EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.

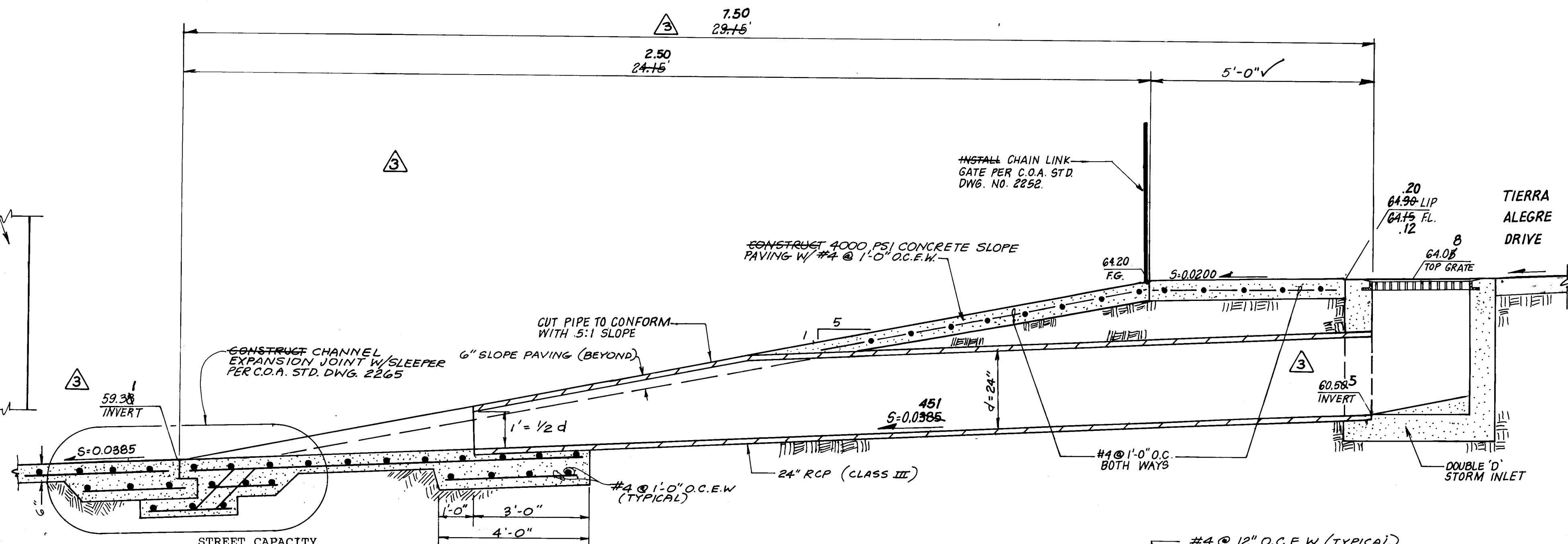


DETAIL 1 SCALE: 1"=10' 3.5 16.12

RECORD DRAWING



TYPICAL TRICKLE CHANNEL SECTION SCALE: 1"=1'-0"



SECTION A-A SCALE: 1"=2'

SUMP CONDITION @ CUL-DE-SAC

Required Capacity $Q_{req} \approx 18.9$ cfs

a. Double "D" Inlet:

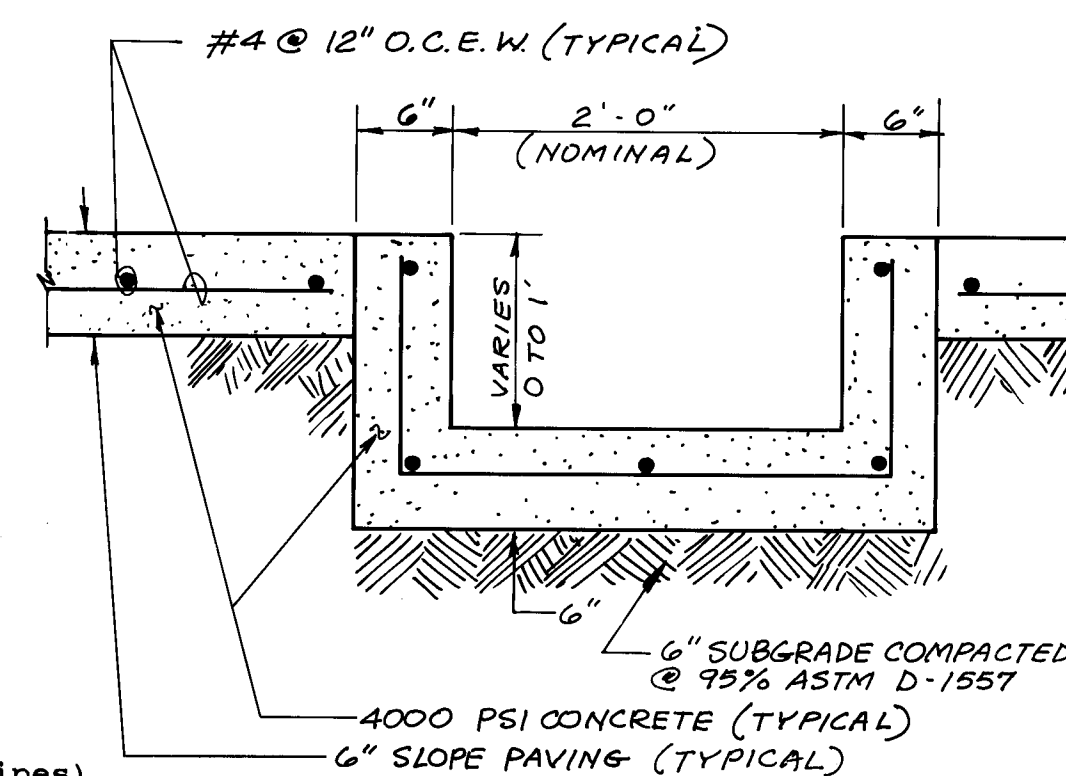
$$Q_D = C_{eff} (2g\Delta h)^{0.5} = 37.4 \text{ cfs}$$

Where $C = 0.7$
 $C_{eff} = 0.5(6.5 \times 2.5) = 8.125 \text{ sf (effective)}$
 $g = 32.2 \text{ ft/s}^2$
 $\Delta h = 0.67$

b. Pipe Capacity (By Feild's Hydraulics Calculator for Gravity Flow in Pipes)

24" RCP
 $n = 0.013$
 $S = 0.0385$

$Q_{cap} = 44 \text{ cfs}$



SECTION X-X SCALE: 1"=1'-0"

HYDRAULIC CAPACITY

a. Concrete Trickle Channel

$$Q = (1.49/n)AR^{2/3}S^{1/2}$$

Where

$n = 0.013$
 $A = 2(0.50) = 1.00 \text{ sf}$
 $P = 0.50 + 2.0 + 0.50 = 3.00 \text{ ft}$
 $R = A/P = 1.00/3.00 = 0.33; R^{2/3} = 0.48$
 $S = 0.01 \text{ (minimum); } S^{1/2} = 0.10$
 $Q_{cap} = 5.5 \text{ cfs}$

b. Public Drainage Channel

$$Q_8 \text{ inch} = (1.49/n)AR^{2/3}S^{1/2}$$

Where $n = 0.013$
 $A = (2/3)(18.67) = 12.45 \text{ sf}$
 $P = 2/3 + 18.67 + 2/3 = 20 \text{ ft}$
 $R = A/P = 12.45/20.00 = 0.623; R^{2/3} = 0.729$
 $S = 0.0513; S^{1/2} = 0.23$

$Q_8 \text{ inch} = 239 \text{ cfs}$

@ $Q_{design} = 18.9 \text{ cfs}$ (Drainage Basin 'B')
 $D = 0.14 \text{ ft; } A = 2.69 \text{ ft}^2$
 $V = Q/A = 18.9/2.69 = 7.0 \text{ fps}$

STREET CAPACITY

a. Minimum Slope (0.0050)

DPM Plate 22.3 D-1 for $S = 0.0050, D = 0.67$
 $Q_{1/2} = 22.5 \text{ cfs}$
 $V = 3.4 \text{ fps}$
 $Q_{cap} = 2 \times Q_{1/2} = 45 \text{ cfs}$

@ $Q_{design} = 18.9 \text{ cfs}$
Then $Q_{1/2} = 9.5 \text{ cfs}$
 $D = 0.49 \text{ ft}$
 $V = 2.38 \text{ fps}$

b. Maximum Slope (0.0080)

DPM Plate 22.3 D-1 for $S = 0.0080, D = 0.67$
 $Q_{1/2} = 28.5 \text{ cfs}$
@ $Q_{design} = 18.9 \text{ cfs}$
Then $Q_{1/2} = 9.5 \text{ cfs}$
 $D = 0.46 \text{ ft}$
 $V = 2.72 \text{ fps}$

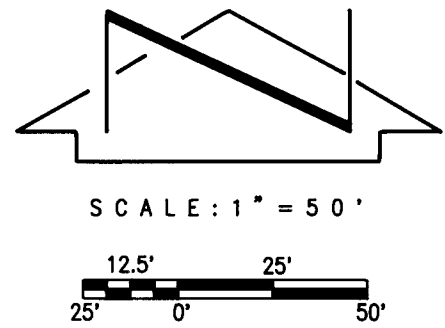
RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be used as shown prior to use on future projects.

Jeffrey G. Mortensen, Date 04-22-94
NMPE (No. 8547) PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIERRA LA CUEVA UNIT 2					
GRADING NOTES					
DRAINAGE DETAILS AND SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Goodley</i>	8-04-93	WATER	N/A RWK	7-1-93
TRANSPORTATION	<i>John [unclear]</i>	7-01-93	WASTE WATER	N/A RWK	7-1-93
HYDROLOGY	<i>[Signature]</i>	07-01-93			
PROJECT NO. 4368.91		MAP NO. C-19		SHEET 4 OF 14	

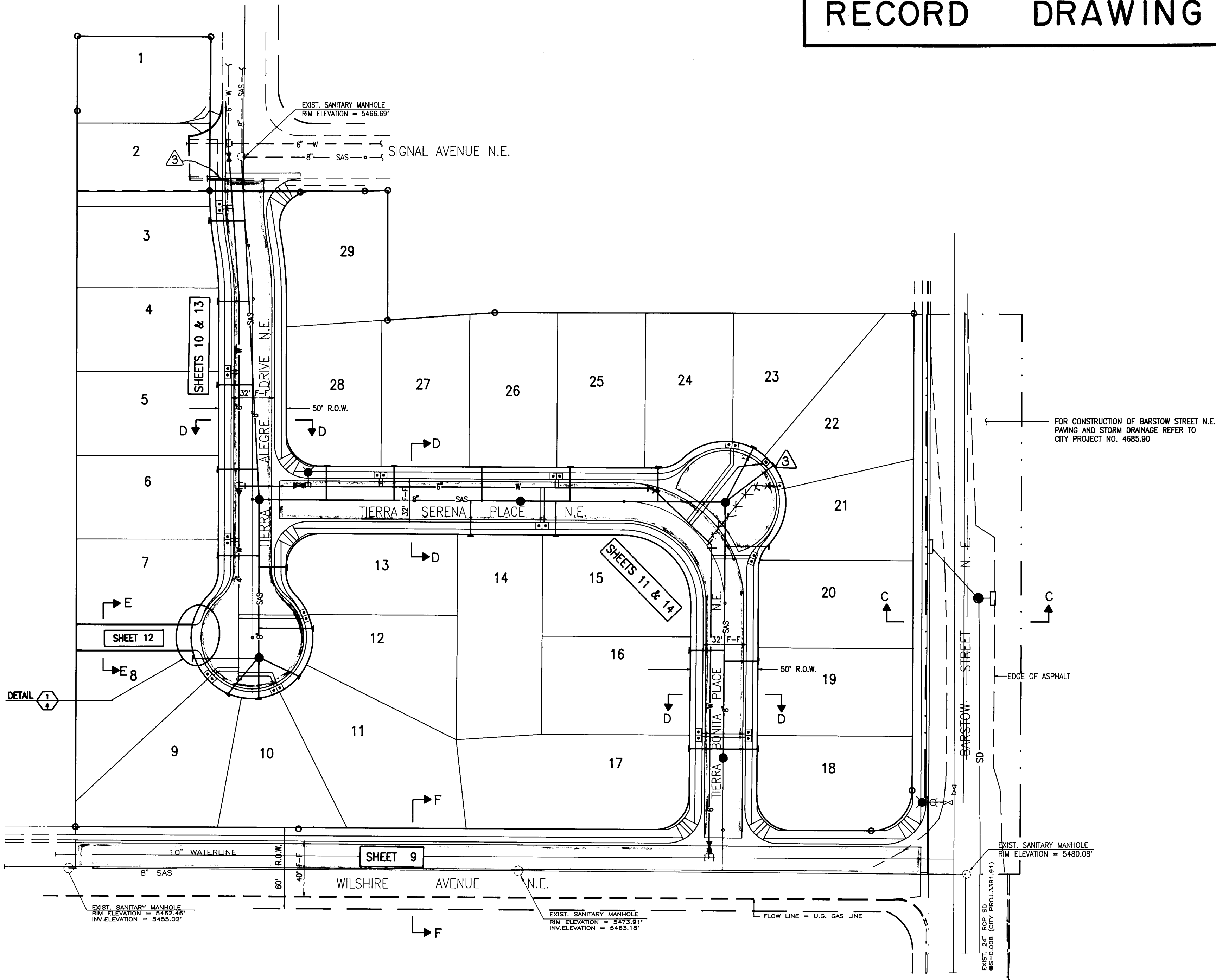


RESTRAINED JOINT TABLE

Test Pressure = 150 p.s.i.
Factor of Safety = 1.5
Soil Type = SM
Trench Type = 4
Depth of Bury = 4'

Fitting Type	Size	Lr (feet)
Tee	6x6x6	31
90° Ell	6	20
45° Ell	6	6
22½ Ell	6	3
11¼ Ell	6	2
Reducer	6x4	31 (AHD) 21 (Back)
Valve	6	42

RECORD DRAWING



26-4368.91-1911051914

SCANNED BY
BY LASON

921044

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

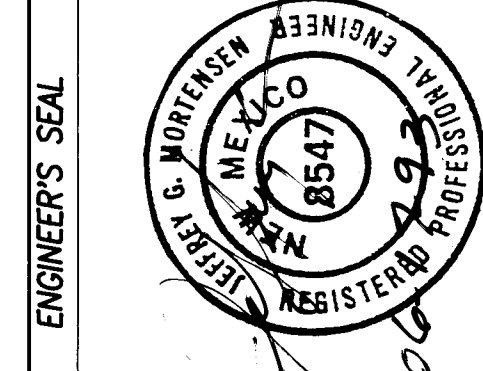
Jeffrey G. Mortensen, Date 07-22-94
N.M.P.E. No. 8547

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIERRA LA CUEVA UNIT 2
COMPOSITE SITE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. G. Sordley	8-04-93	WATER	A. RUIZ	7-1-93
TRANSPORTATION	V. Payne	7-01-93	WASTE WATER	A. RUIZ	7-1-93
HYDROLOGY	B. Alby	07-01-93			

PROJECT NO. 4368.91 MAP NO. C-19 SHEET 5 OF 14

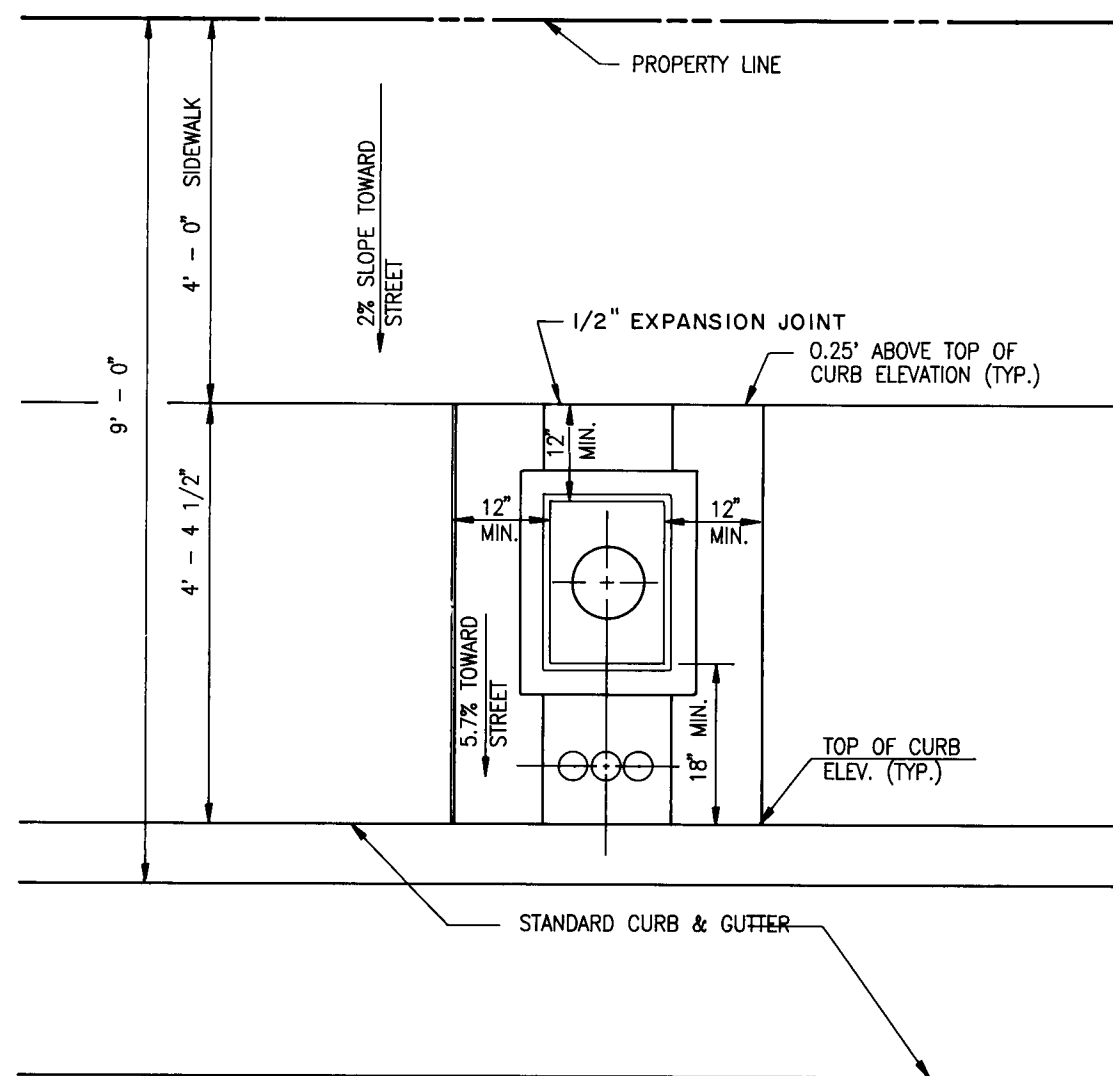


NO.	DATE	REVISIONS	BY
		DESIGN	
DESIGNED BY	J.G.M.	DATE	05-93
DRAWN BY	ACAD	DATE	05-93
CHECKED BY	J.G.M.	DATE	05-93

NO.	DATE	BY

ENGINEER'S SEAL
G.M.
AS-BUILT & CERTIFY
10/1/94

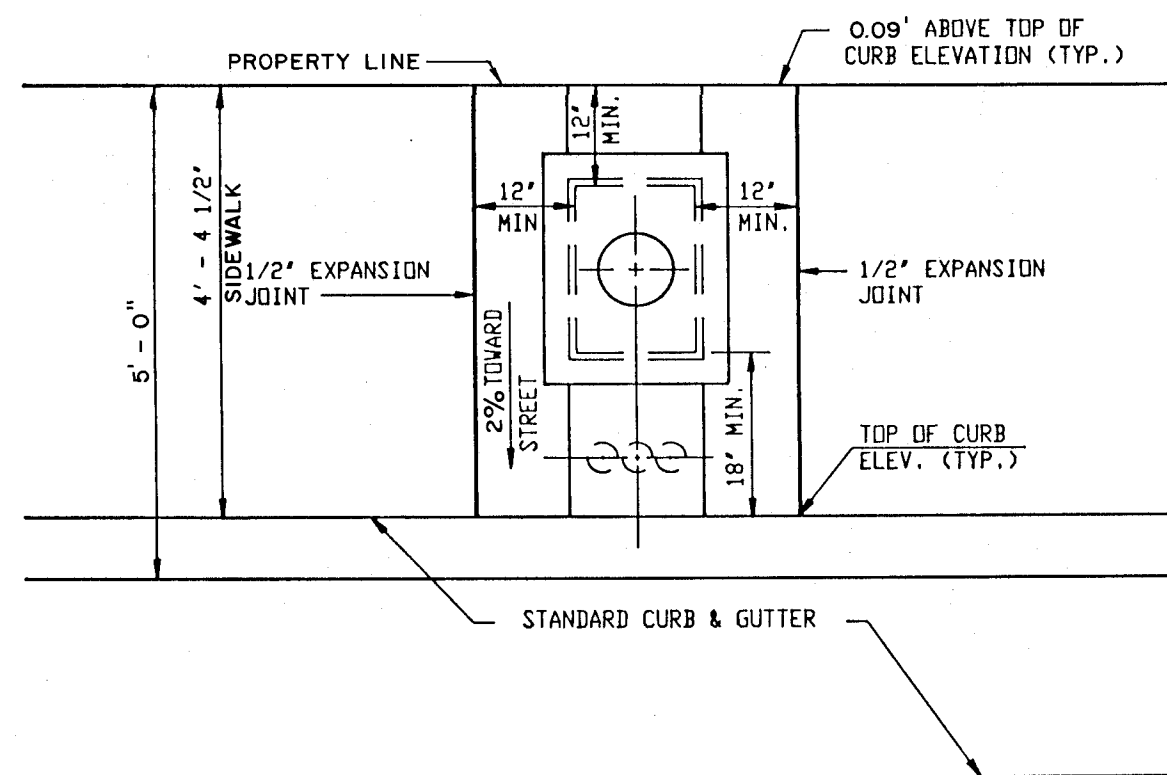
AS BUILT INFORMATION		CONTRACTOR SUNDANCE MECHANICAL	
WORK MADE BY	JMA	INSPECTORS CHECKED BY	GM
SEL	JMA	DRAWINGS DIRECTED BY	GM
MICRO-FILM INFORMATION		RECORDED BY	
		D.	



TYPICAL METER BOX INSTALLATION

SCALE: 1" = 2' - 0"

NOTE: FOR CONSTRUCTION DETAILS REFER TO C.O.A. STD. DWGS. 2362 AND 2368

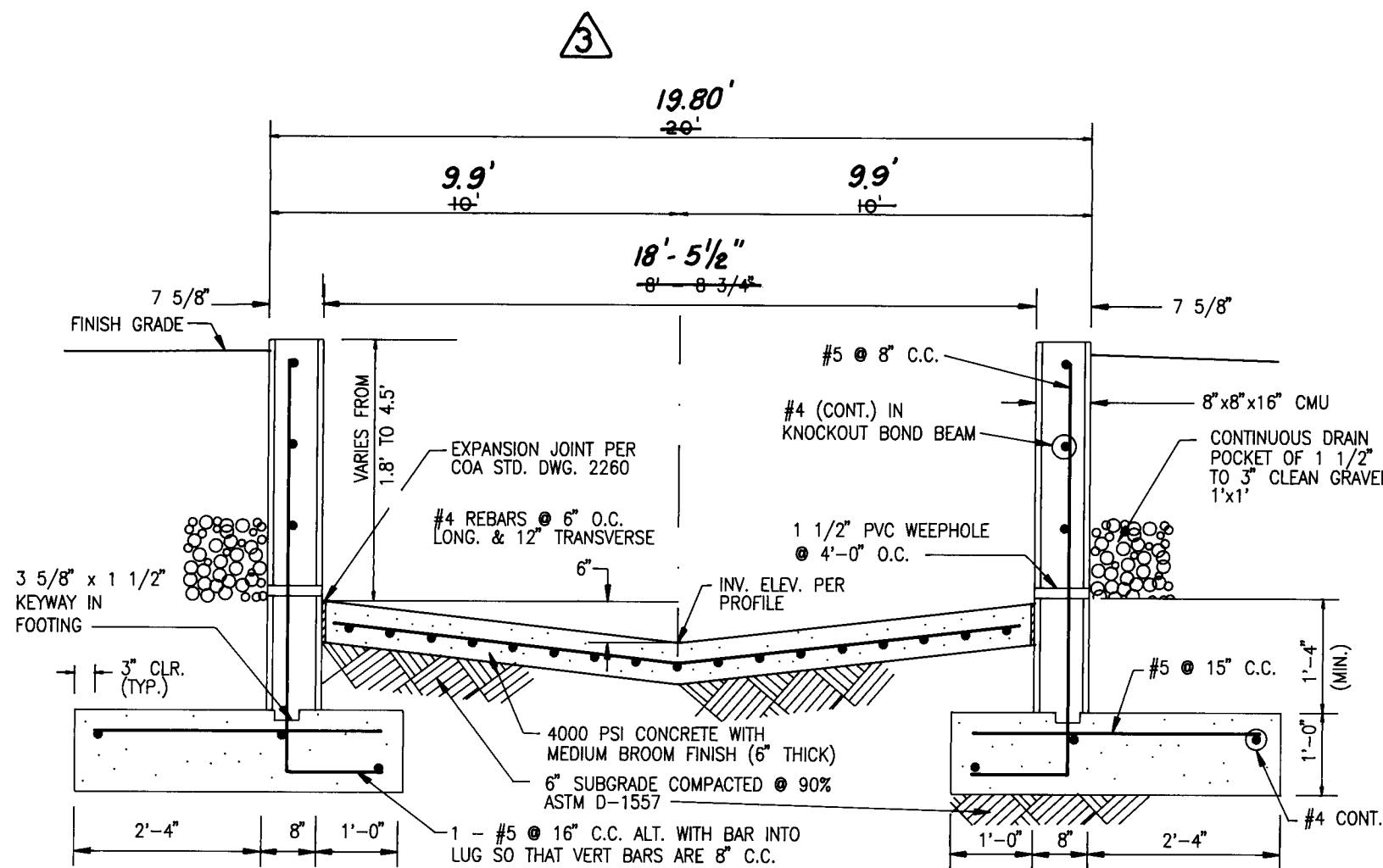


CUL-DE-SAC METER BOX INSTALLATION

SCALE: 1" = 2' - 0"

NOTE: FOR CONSTRUCTION DETAILS REFER TO C.O.A. STD. DWGS. 2362 AND 2368

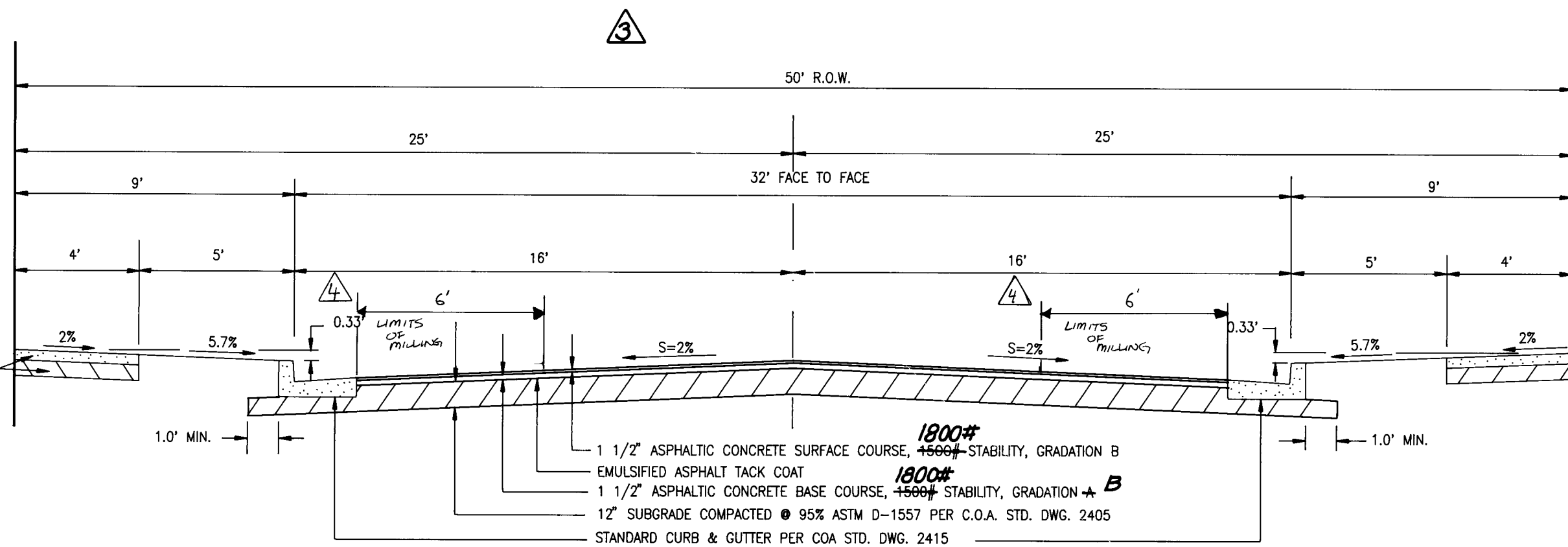
RECORD DRAWING



SECTION E - E

NOT TO SCALE

- NOTES:
1. 8" x 8" x 16" CMU OF UBC STD. 24-4 OR 24-5.
 2. USE KNOCK-OUT BOND BEAM BLOCK AT 4'-0" C.C. WITH 1 #4 CONTINUOUS.
 3. FILL ALL BLOCK VOIDS WITH 3000 PSI CONCRETE.
 4. REINFORCING TO BE INTERMEDIATE GRADE STEEL.
 5. INSTALL DWR-6-WALL REINFORCING EVERY SECOND COURSE.
 6. SPLICE SHALL BE 40 BAR DIAM. MINIMUM FOR VERTICAL BARS. ALL OTHERS SHALL BE 20 BAR DIAM. MINIMUM.
 7. CONCRETE FILL SHALL BE 21 DAYS OLD PRIOR TO BACKFILLING.

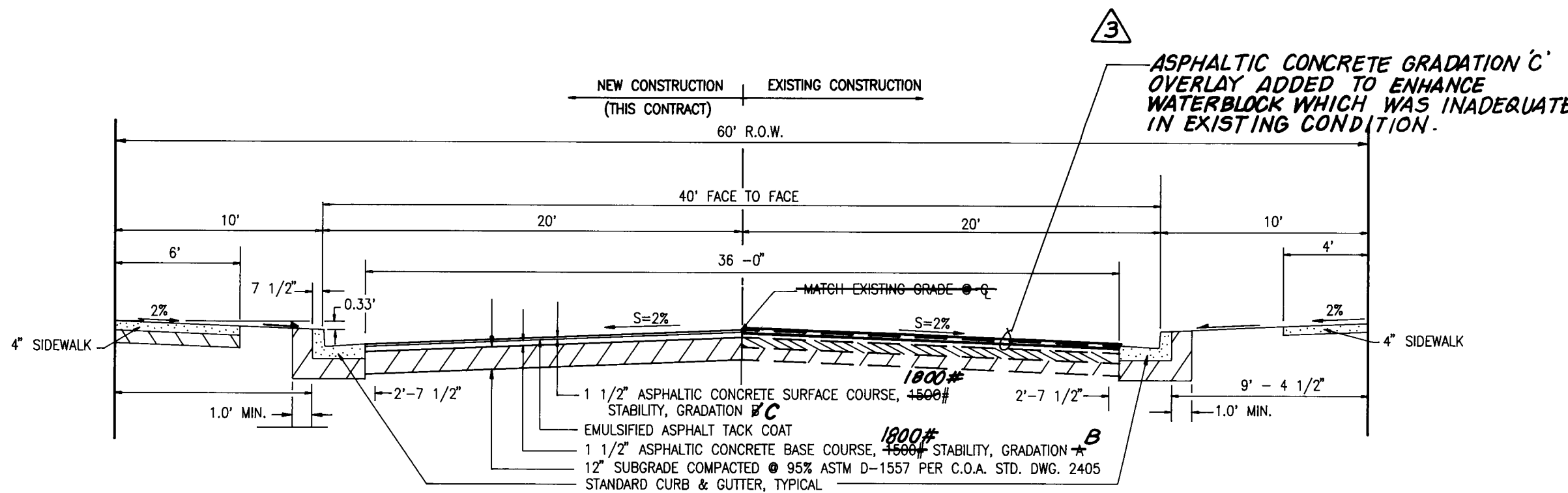


SECTION D - D

SCALE: 1" = 4'

(RESIDENTIAL)

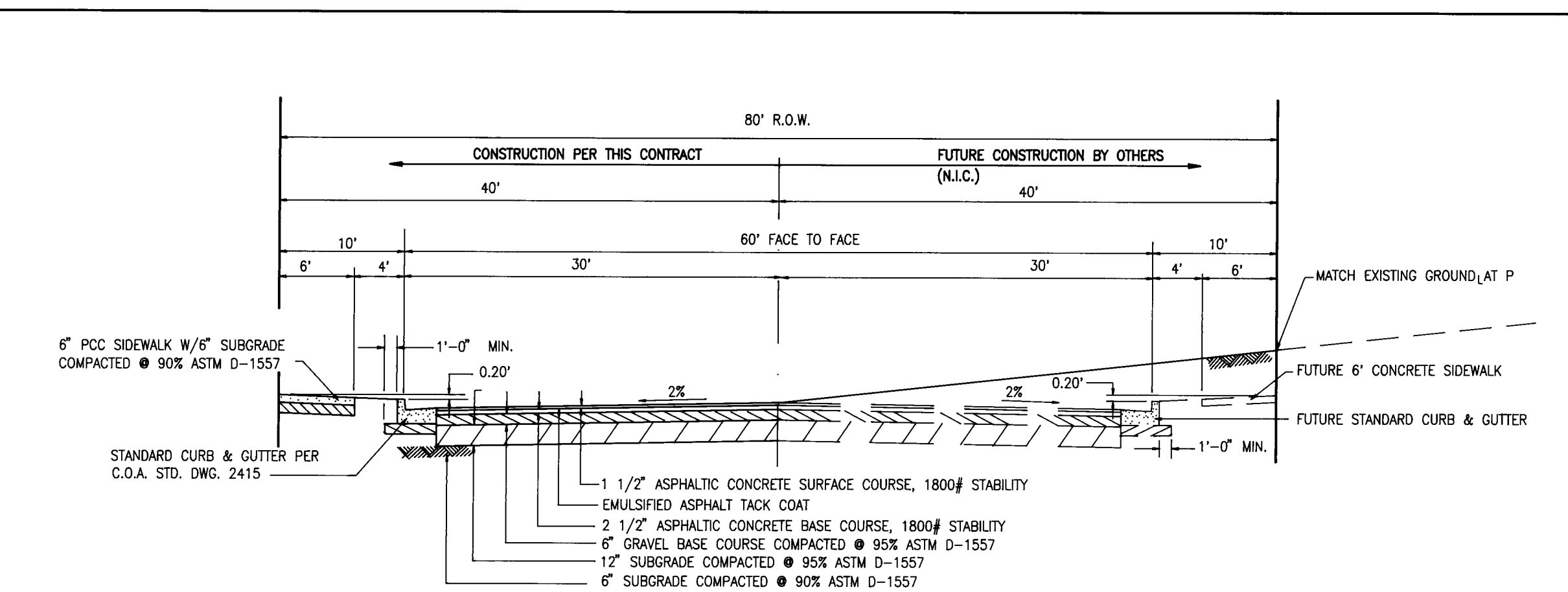
TO CORRECT SURFACE COURSE COMPACTION DEFICIENCIES NEAR THE EDGES, A SIX FOOT WIDE STRIP WAS MILLED ON BOTH SIDES TO A DEPTH OF 1 1/2" AT THE LIP OF GUTTER TAPERING TO 1/2" 6 FEET IN FROM THE LIP. THE ENTIRE WIDTH WAS THEN OVERLAYED WITH ASPHALTIC CONCRETE GRADATION "D" WHICH VARIED FROM A MINIMUM DEPTH OF 1/2" TO A MAXIMUM DEPTH OF 1 1/2".



SECTION F - F

SCALE: 1" = 6'

(WILSHIRE)



SECTION C - C

SCALE: 1" = 10' HORIZONTAL
1" = 4' VERTICAL

NOTE:
THIS SECTION CONSISTENT WITH THAT DESIGNED SOUTH OF WILSHIRE AVENUE N.E. FOR VINEYARD ESTATES - PHASE II (CITY PROJECT #3391-92) AND NORTH OF SIGNAL AVENUE N.E. FOR TIERRA LA CUEVA UNIT I (CITY PROJECT #4368-90)

FOR INFORMATION ONLY; N.I.C.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
24-4368-90-11-12-13-14-15

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field checked prior to use on future construction.

Jeffrey G. Mortensen, N.M.P.E. No. 8547

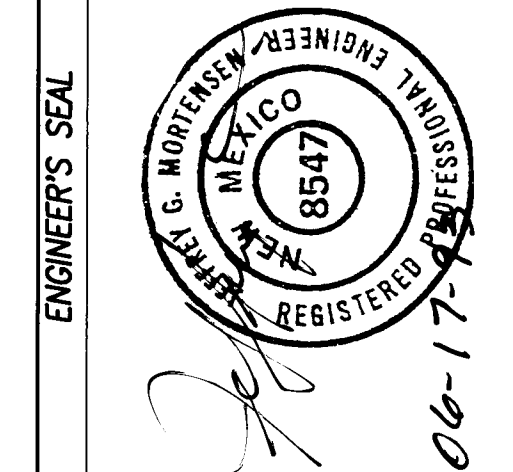
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIERRA LA CUEVA UNIT 2
SECTIONS AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-04-93	WATER	N/A RWK	7-1-93
TRANSPORTATION	<i>[Signature]</i>	7-01-93	WASTE WATER	N/A RWK	7-1-93
HYDROLOGY	<i>[Signature]</i>	07-01-93			

PROJECT NO. 4368-91
MAP NO. C-19
SHEET 6 OF 14

SURVEY INFORMATION		FIELD NOTES		AS BUILT INFORMATION	
NO.	DATE	BY	DATE	CONTRACTOR	MECHANICAL
				CITY OF ALBUQUERQUE	
				TABET STAMPED "HEAVEN 1987"	
				THE GROUND LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN" CEMETARY	
				0.15 MILES WEST OF THE INTERSECTION OF PASO DEL NORTE N. E. AND	
				WYOMING BOULEVARD N.E. STATION IS ON THE SOUTH SIDE OF PASO DEL	
				NORTE.	
				ELEVATION = 5378.78 FEET (M.S.L.D.)	
				RECORDED BY	
				NO.	



ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	BY	DATE	DESIGNED BY	DATE
				J.G.M.	05-93
				ACAD	05-93
				CHECKED BY	DATE
				J.G.M.	05-93

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN, DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED 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. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

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.

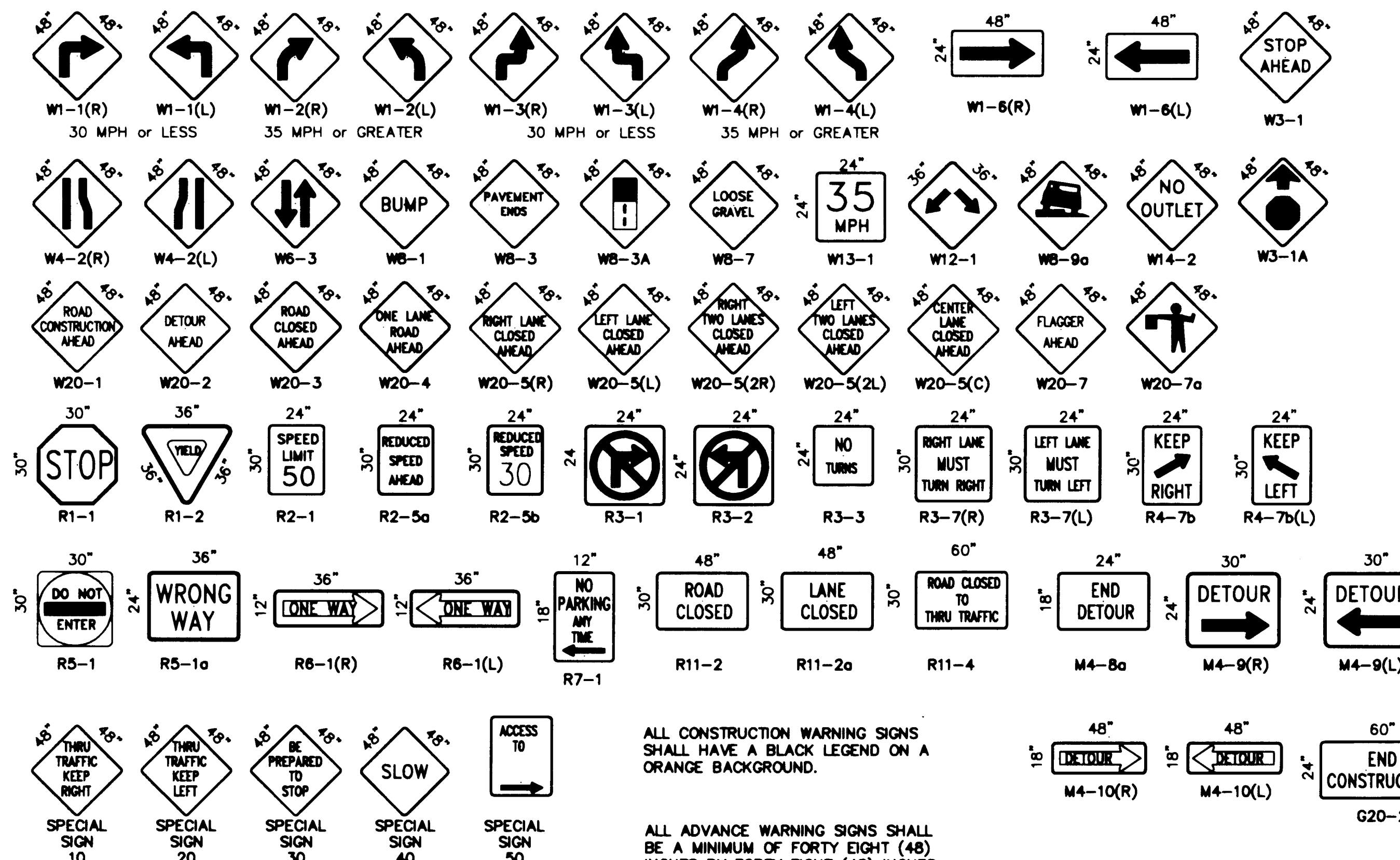
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

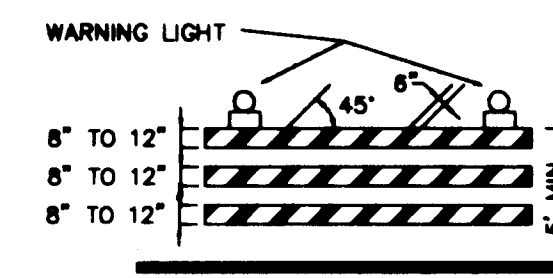
RECORD DRAWING

SIGN FACE DETAILS

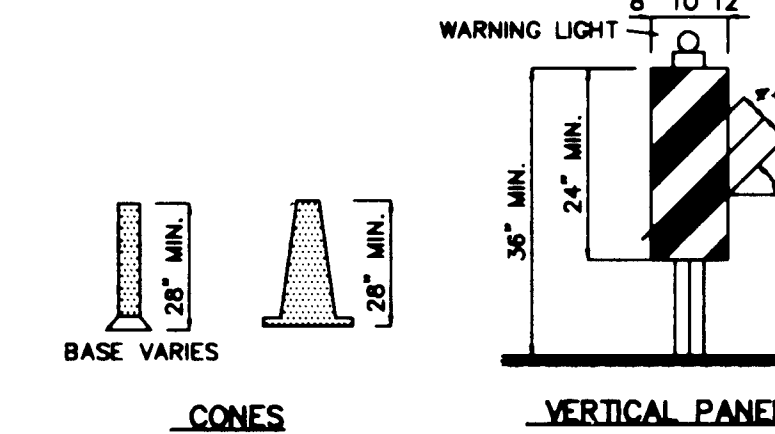


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



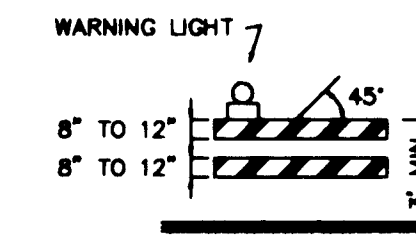
TYPE III BARRICADE



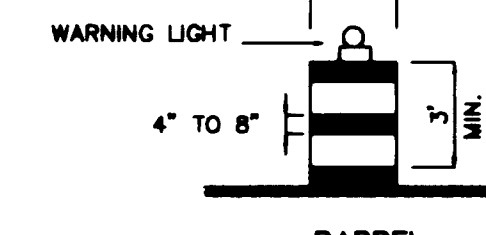
CONES

VERTICAL PANEL

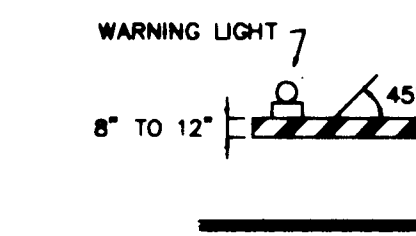
HIGH LEVEL WARNING DEVICE



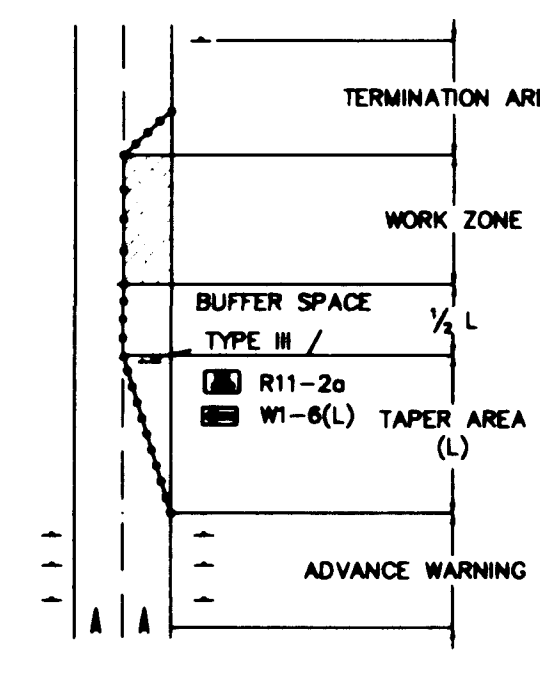
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

LEGEND

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

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		BEFORE 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 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
SHIFTER 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	L
40 MPH OR LESS	$L = \frac{W^2}{60}$
45 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

SCANNED BY BY LASON

921044

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TIERRA LA CUEVA, UNIT 2					
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-24-23	WATER	<i>[Signature]</i>	7-1-23
TRANSPORTATION	<i>[Signature]</i>	7-01-23	WASTE WATER	<i>[Signature]</i>	7-1-23
HYDROLOGY	<i>[Signature]</i>	07-01-23			
PROJECT NO. 4368.91			MAP NO. C-19		
SHEET 7A			OF 14		

STA. 17+19.27
NEATLY SAWCUT, REMOVE AND DISPOSE OF TEMPORARY ASPHALT PAVING TO THE SOUTH. APPLY TACK COAT TO SAVED EDGE PRIOR TO NEW PAVING INSTALLATION.

C ←

FUTURE INLET AND STORM DRAIN

INSTALL 57 LF 18" RCP, CLASS IV @ S=0.0080

N 0°09'48"E L538.26'

EXIST. PAVING

**N.I.C.
4685.90**

C ←

**THIS CONTRACT
4368.91**

LOT 22

LOT 21

STA. 15+65 (30' LT.)
CONSTRUCT SINGLE "A" STORM INLET GRATE ELEV.=5480.81)
TC 5481.48
INV. ELEV.= 5474.6

STA. 15+25 (30' RT.)
CONSTRUCT DOUBLE "D" STORM INLET GRATE ELEV.= 5478.5)
INV. ELEV.= 5473.00

INSTALL 10 LF 24" RCP @ S = 0.0200

RCP

CONSTRUCT STD. CURB & GUTTER PER C&G STD. DWG. 2415

RELOCATE FIRE HYDRANT PER SHEET 14

LOT 20

LOT 19

LOT 18

STA. 13+06.01 (10' RT.)
BEGIN STORM DRAIN CONSTRUCTION. REMOVE AND DISPOSE OF 24" CAP. CONNECT TO EXIST. STORM DRAIN

EDGE EXIST ASPHALT

ADJUST EXIST VALVE BOXES TO GRADE

SD

EXIST. 24" RCP STORM DRAIN

NEW CONCRETE VALLEY GUTTER AND FILLET PER C&G STD. DWG. 2420 (ALT. B) AND WHEELCHAIR RAMP PER C&G STD. DWG. 2441 (CASE II) - SEE SHEET 9

SAS

FL79.62
FL79.64
FL79.61
EXIST.

FL79.38
EXIST.

PID STA. 13+66.20 (30' LT.)
TC 5480.43
RCP TC 5480.75

FOR CONTINUATION SEE SHEET 9

	TC	FL
1	80.50	79.83
2	-	79.80
3	80.69	80.00

STA. 13+06.01 BARSTOW STREET NE = STA. 36+39.81 WILSHIRE AVENUE NE

BARSTOW STREET N.E.

Profile view of Wilshire Ave. N.E. showing existing and proposed elevations, stationing, and vertical curve data.

Vertical Curve Data:

- 219 LF 24" RCP SD @ S=0.0080
- EXIST. RIM @ 5479.5
- EXIST. PROFILE @ WEST R.O.W.
- EXIST. PROFILE @ C
- STA 13+56.20 PTCR
- STA 13+26.00 FL
- PVI STA 13+06.01

Proposed Profile:

- INSTALL 57 LF 18" RCP CLASS IV @ S=0.0080
- INV. (OUT) @ 5474.60
- INV. (IN) @ 5473.5
- INV. (OUT) @ 5473.00
- EXIST. 24" RCP SD @ S=0.0080

Stationing and Elevation Data:

Station	Elevation
17+00	5482.25
17+00	5482.15
16+00	5481.65
15+00	5481.15
14+00	5480.65
13+00	5480.15
12+00	5480.15

Additional Notes:

- STA 15+46.5 CONSTRUCT SINGLE 'A' STORM INLET
- STA 15+46.5 CONNECT TO EXIST. SDWH PER CITY PROJ. NO. 4685.90

SCANNED BY
BY LASON

PROJECT NO.	4368.91	MAP NO.	C-19	SHEET	8	OF	14
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1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING, EXCEPT CUL-DE-SACS, AND ELEVATIONS WHERE STATIONING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SHALL REMOVE AND/OR REPAIR THE STREET JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
4. ALL SIDEWALK SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
6. ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

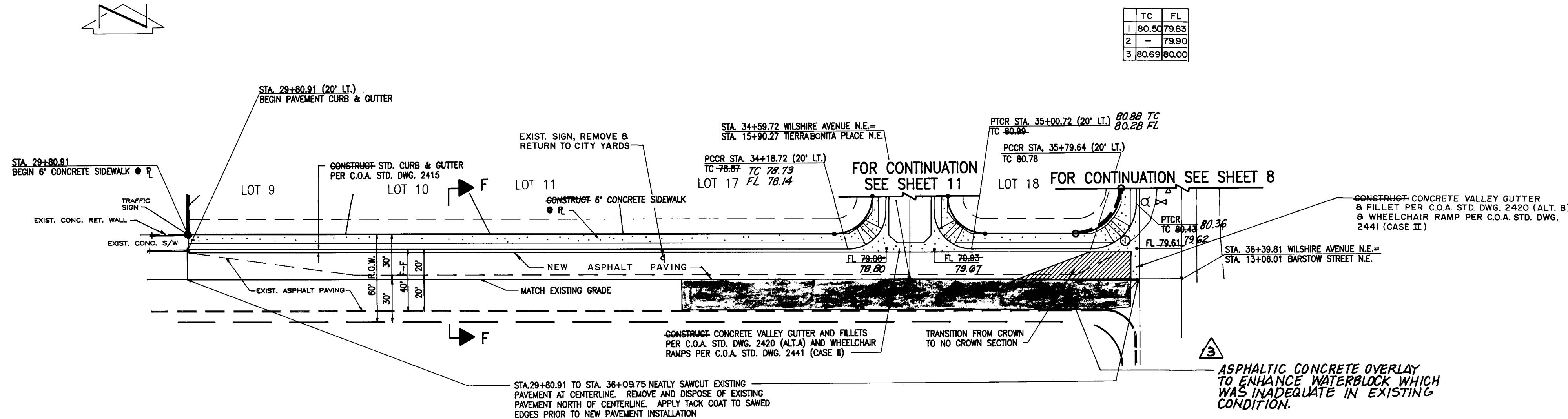
TITLE: TIERRA LA CUEVA UNIT 2
PAVING & STORM DRAINAGE IMPROVEMENTS
BARSTOW STREET N.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>S. G. Gentry</i>	8-04-93	WATER	N/A RWK	7-1-93
TRANSPORTATION	<i>L. Lowe</i>	7-01-93	WASTE WATER	N/A RWK	7-1-93
HYDROLOGY	<i>S. Alley</i>	07-01-93			

3. 01/94 AS-BUILT & CERTIFY		G.M.		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION			
NO.	DATE	REVISIONS	BY			FIELD NOTES		CITY OF ALBUQUERQUE BENCH MARK "HEAVEN" A STANDARD		USC & GS BRASS TABLET STAMPED "HEAVEN 1969", SET IN TOP OF A CONCRETE POST FLUSH W/ THE GROUND LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN" CEMETARY 0.15 MILE WEST OF THE INTERSECTION OF PASEO DEL NORTE N.E. AND WYOMING BLVD. N.E.		DATE 10/93	
						NO		BY				DATE 10/93	
						N/A		J.M.A.				DATE 01/94	
DESIGNED BY J.G.M.		DATE 03/93						STATION IS ON THE SOUTH SIDE OF PASEO DEL NORTE		MICRO-FILM INFORMATION		DATE	
DRAWN BY S.G.H.		DATE 04/93						ELEV. = 5378.78' (M.S.L.D.)		CORRECTED BY		DATE	
CHECKED BY J.G.M.		DATE 06/93								RECORDED BY		DATE	

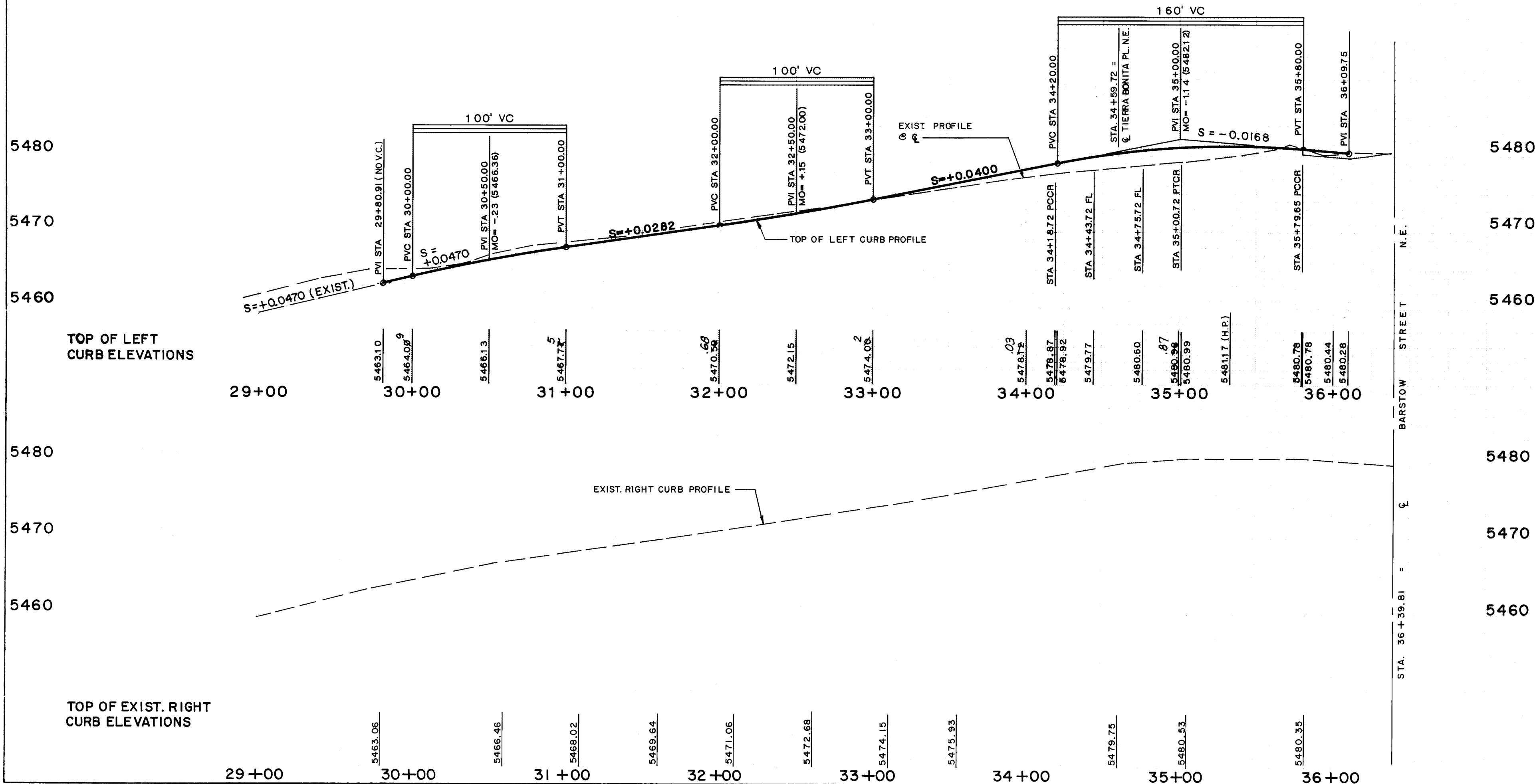
RECORD DRAWING

CURB CURVE TABLE			
	Δ	R	L
①	90°11'09"	30.00'	47.22'



WILSHIRE AVENUE N.E.

HORIZONTAL SCALE: 1"= 50'
VERTICAL SCALE: 1"= 10'



- STREET PAVING IMPROVEMENTS:
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
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 - ALL SIDEWALK SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

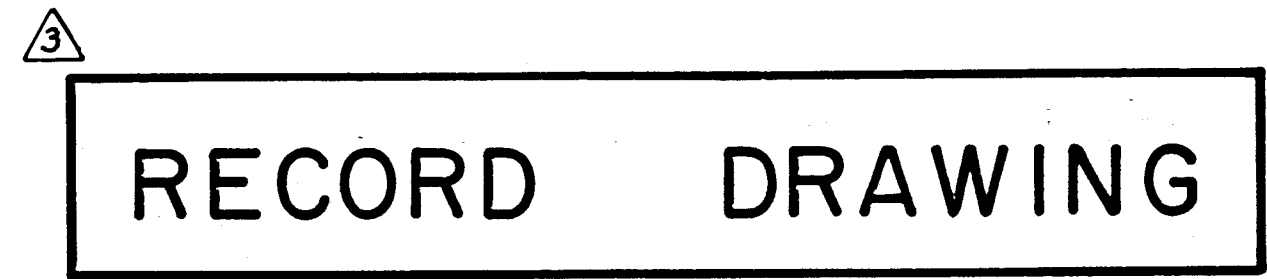
26-143681-91091914

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field checked prior to use on future projects.

Jeffrey G. Mortensen, Engineer
N.M.P.E. No. 8547
Date 08-22-94

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TIERRA LA CUEVA UNIT 2 PAVING IMPROVEMENTS WILSHIRE AVENUE N.E.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	8-24-93	8-24-93	WATER	N/A RUC	7-1-93
TRANSPORTATION	7-21-93	7-21-93	WASTE WATER	N/A RUC	7-1-93
HYDROLOGY	8-24-93	8-24-93			
PROJECT NO. 4368.91			MAP NO. C-19		
SHEET 9			OF 14		



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

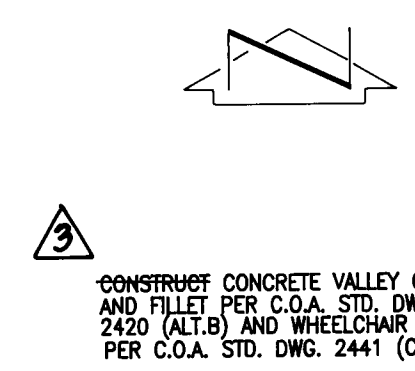
- STREET PAVING IMPROVEMENTS:
1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
2. WHERE REMOVAL OF EXISTING CURB AND SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST CURB OR SIDEWALK AS SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
4. ALL SIDEWALK SHOWN HEREON SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
5. ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
6. ALL CURB AND GUTTER SHOWN HEREON ARE THE STALLION STANDARD PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be checked prior to use on future drawings.

Jeffrey G. Mortensen
JEFFREY G. MORTENSEN
NEW MEXICO
0547
Date 02-22-94
NMPPE No. 0537 PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TIERRA LA CUEVA UNIT 2 PAVING IMPROVEMENTS TIERRA ALEGRE DRIVE N.E.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-04-93	WATER	<i>N/A RWK</i>	7-1-93
TRANSPORTATION	<i>[Signature]</i>	7-01-93	WASTE WATER	<i>N/A RWK</i>	7-1-93
HYDROLOGY	<i>[Signature]</i>	07-01-93			
PROJECT NO. 4368.91	MAP NO. C-19		SHEET 10 OF 14		



TC	FL
1	66.37 65.70
2	- 65.72
3	66.41 65.74

TC	FL
1	65.94 65.27
2	- 65.42
3	66.12 65.45

TC	FL
1	80.12 79.45
2	- 79.20
3	79.37 78.70

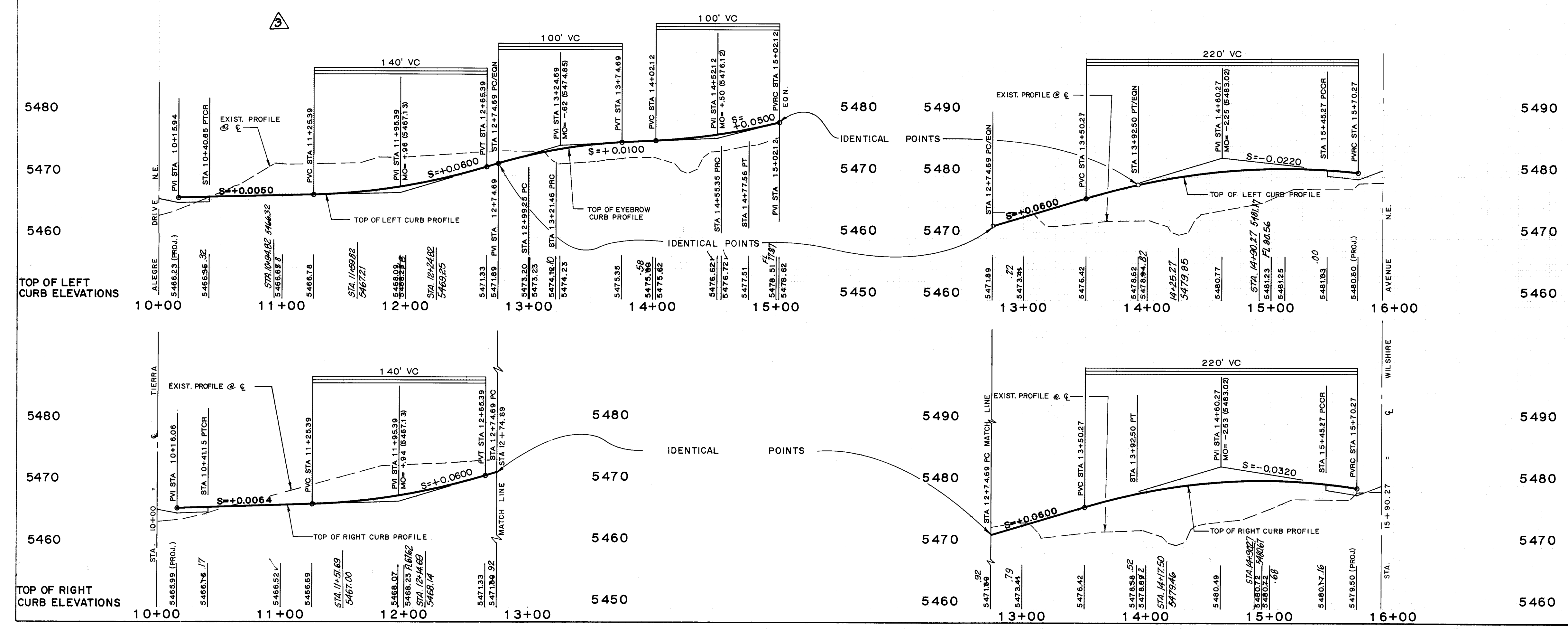
TC	FL
1	81.00 80.33
2	- 80.34
3	81.02 80.35

CURB CURVE TABLE			
	Δ	R	L
⑥	90°12'33"	25.00'	39.36'
⑦	89°51'36"	25.00'	39.18'
⑧	50°53'35"	25.00'	22.21'
⑨	191°47'10"	40.00'	133.89'
⑩	50°53'35"	25.00'	22.21'

RECORD DRAWING

TIERRA SERENA PL. N.E. / TIERRA BONITA PL. N.E.

HORIZONTAL SCALE: 1"= 50'
VERTICAL SCALE: 1"= 10'



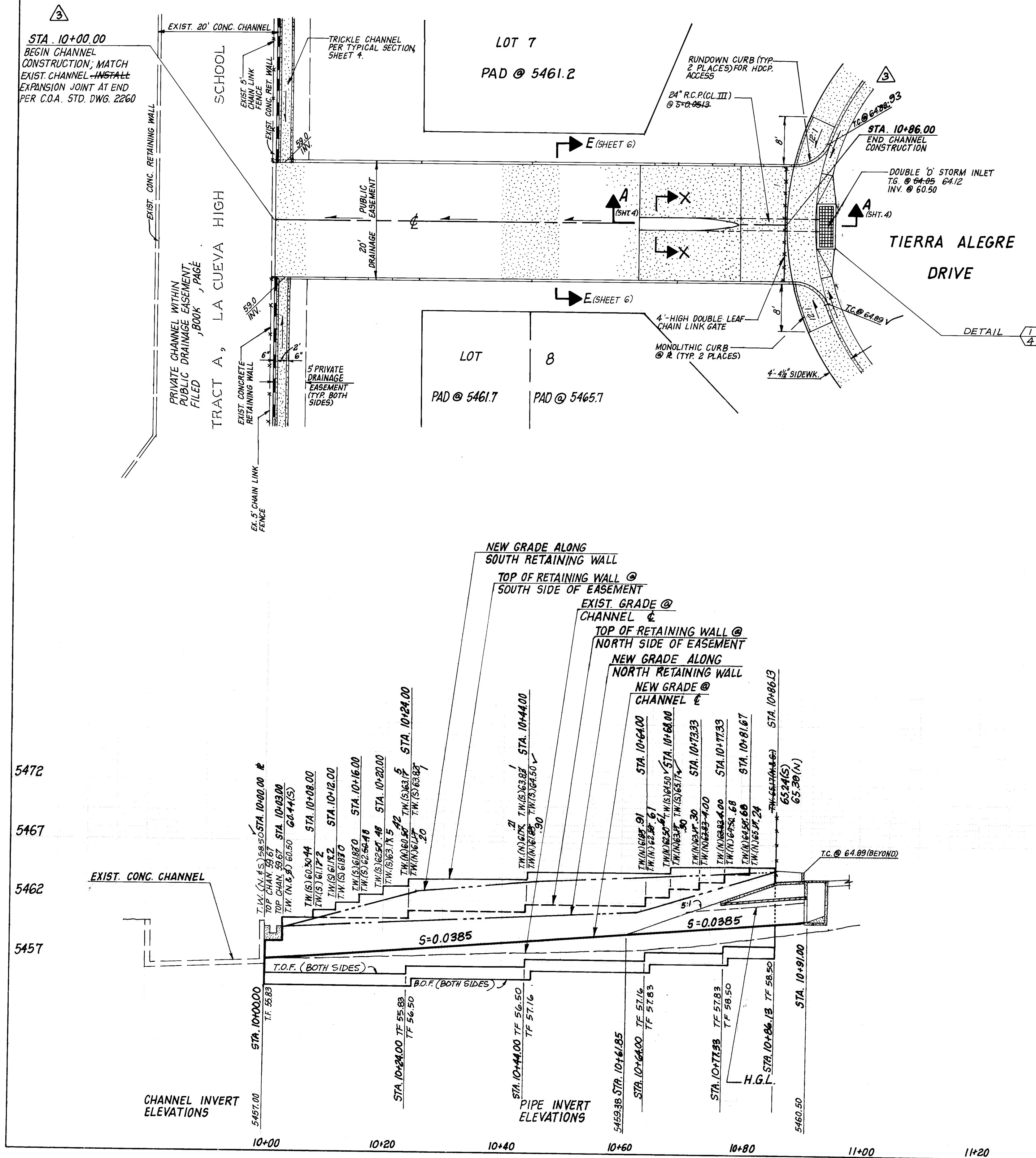
- STREET PAVING IMPROVEMENTS:
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
 - ALL SIDEWALK SHOWN HEREIN SHALL BE CONSIDERED UNDER SEPARATE PERMIT (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREIN SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

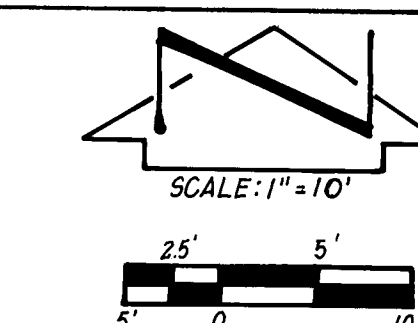
Jeffrey G. Mortensen, Engineer
NMPE No. 8547
Date 01-22-94

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE TIERRA LA CUEVA UNIT 2 PAVING IMPROVEMENTS TIERRA BONITA CT. N.E. / TIERRA SERENA CT. N.E.			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	<i>[Signature]</i>	8-04-93	WATER
TRANSPORTATION	<i>[Signature]</i>	7-01-93	WASTE WATER
HYDROLOGY	<i>[Signature]</i>	07-01-93	
DESIGNED BY J.G.M.		DATE 3/93	REVISIONS BY DATE
DRAWN BY T.E.W.		DATE 5/93	
CHECKED BY J.G.M.		DATE 6/93	
PROJECT NO. 4368.91	MAP NO. C-19	SHEET 11 OF 14	



RECORD DRAWING

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'



GRADING NOTES:

- ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% ASTM D-1557; SUBGRADE AND HOUSE PADS SHALL BE COMPACTED AT 95% ASTM D-1557.
- RETAINING WALLS SHALL BE CONSTRUCTED BY THE DEVELOPER.
- YARD (GARDEN) WALLS SHALL BE CONSTRUCTED BY THE LOT OWNER OR ITS BUILDER.
- MAXIMUM SLOPES SHALL BE 3:1, UNLESS OTHERWISE NOTED.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND ADDITIONAL UTILITY LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE SURVEYOR HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- 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.

AS BUILT INFORMATION

NO.	DATE	BY
1	01/94	JMA
2	01/94	JMA
3	01/94	JMA
4	01/94	JMA
5	01/94	JMA
6	01/94	JMA
7	01/94	JMA
8	01/94	JMA
9	01/94	JMA
10	01/94	JMA
11	01/94	JMA
12	01/94	JMA
13	01/94	JMA
14	01/94	JMA
15	01/94	JMA

ENGINEER'S SEAL

JEFFREY G. MORTENSEN, REGISTERED PROFESSIONAL ENGINEER, NEW MEXICO, No. 6547

06-23-93

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

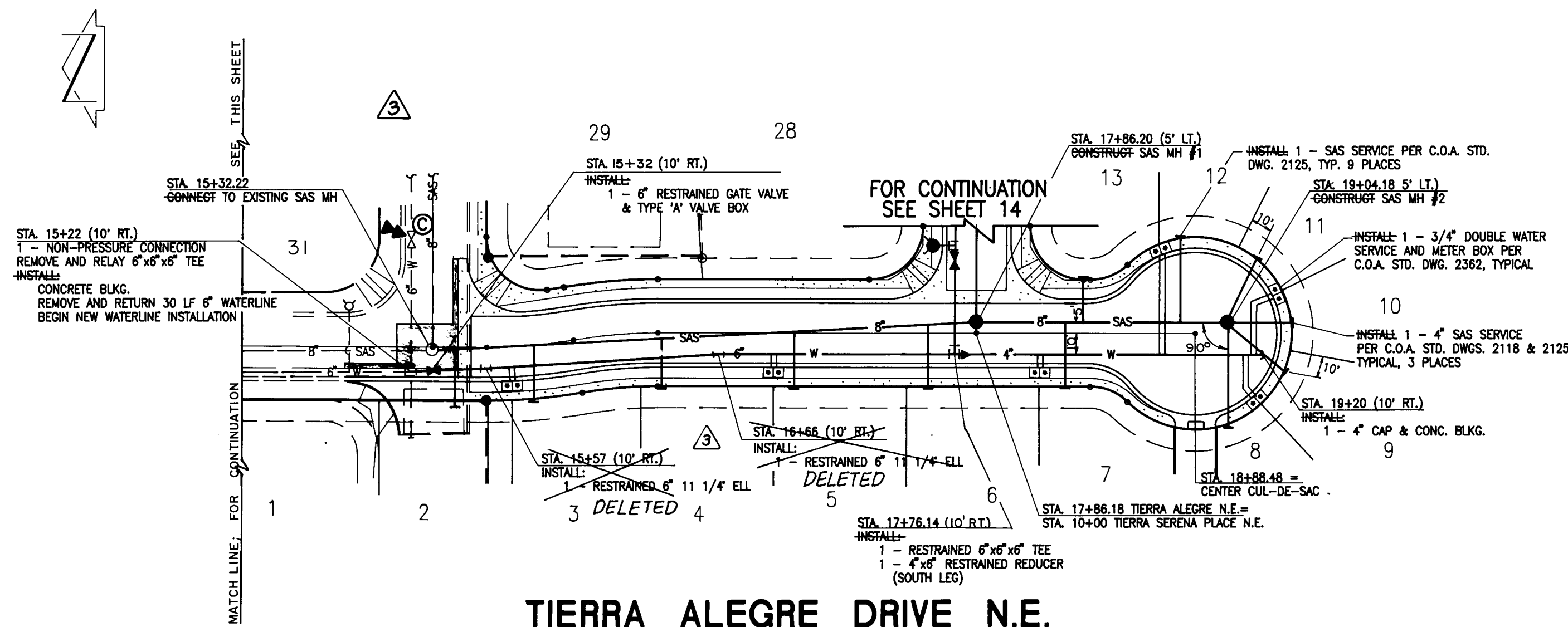
06-23-93

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

TITLE: TIERRA LA CUEVA UNIT 2 STORM DRAINAGE IMPROVEMENTS TIERRA ALEGRE CHANNEL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	J. G. Mortensen	06-23-93	WATER	N/A RUC	7-1-93
TRANSPORTATION	J. G. Mortensen	07-01-93	WASTE WATER	N/A RUC	7-1-93
HYDROLOGY	J. G. Mortensen	07-01-93			

PROJECT NO. 4368.91 **MAP NO. C-19** **SHEET 12 OF 14**



SANITARY SEWER SERVICE SCHEDULE

LOT	STA	SIZE	INV. @ P.L.
2	15+58.14	4"	5463.1
3	15+78.14	4"	5463.2
4	16+38.62	4"	5463.2
5	17+01.61	4"	5463.2
6	17+63.61	4"	5463.2
7	18+25.61	4"	5463.2
8	19+04.18	4"	5463.2
9	AS SHOWN	4"	5463.2
10	AS SHOWN	4"	5463.2
11	AS SHOWN	4"	5463.2
12	18+61	4"	5463.2
13	18+38	4"	5463.2

WATER SERVICE SCHEDULE

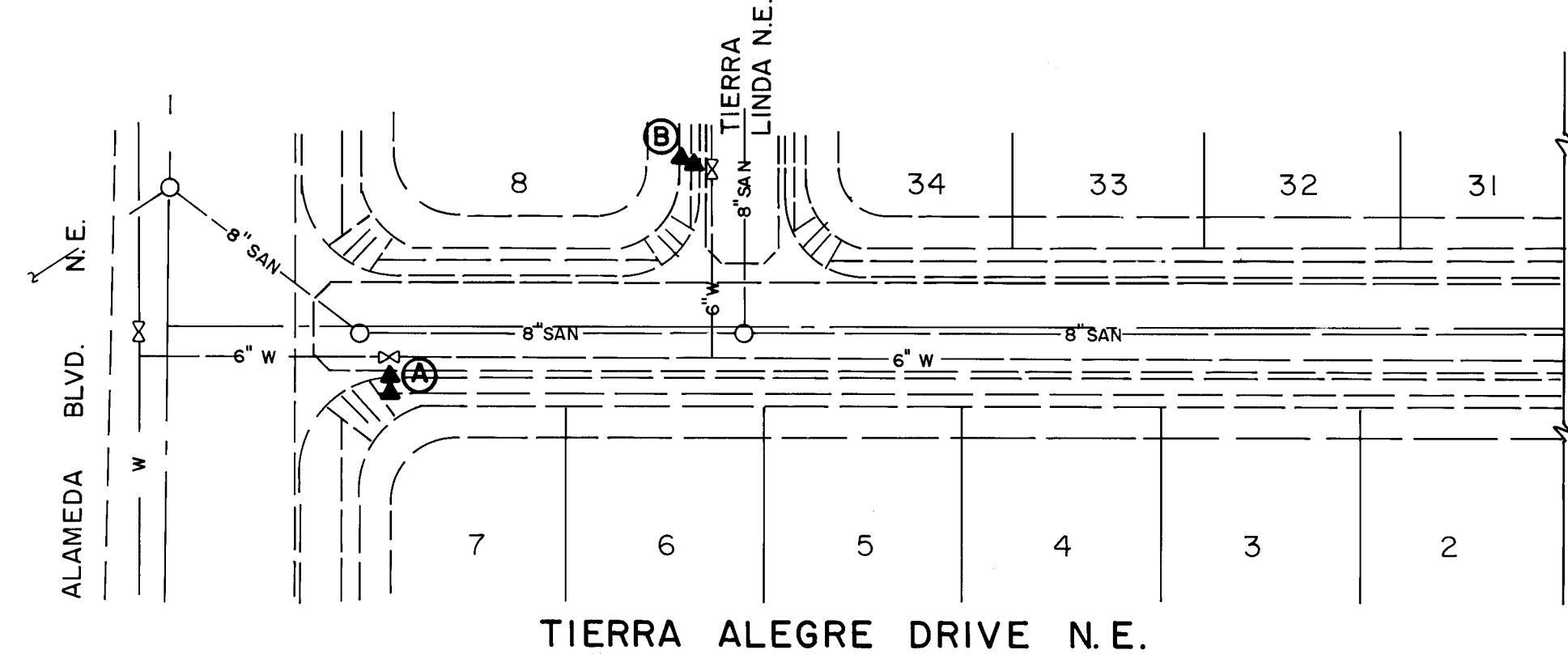
LOT	STATION	SIZE	METER TYPE
2/3	15+68.14	3/4"	DOUBLE
4/5	16+91.61	3/4"	DOUBLE
6/7	18+15.61	3/4"	DOUBLE
8/9	AS SHOWN	3/4"	DOUBLE
10/11	AS SHOWN	3/4"	DOUBLE
12/13	18+71	3/4"	DOUBLE

RECORD DRAWING

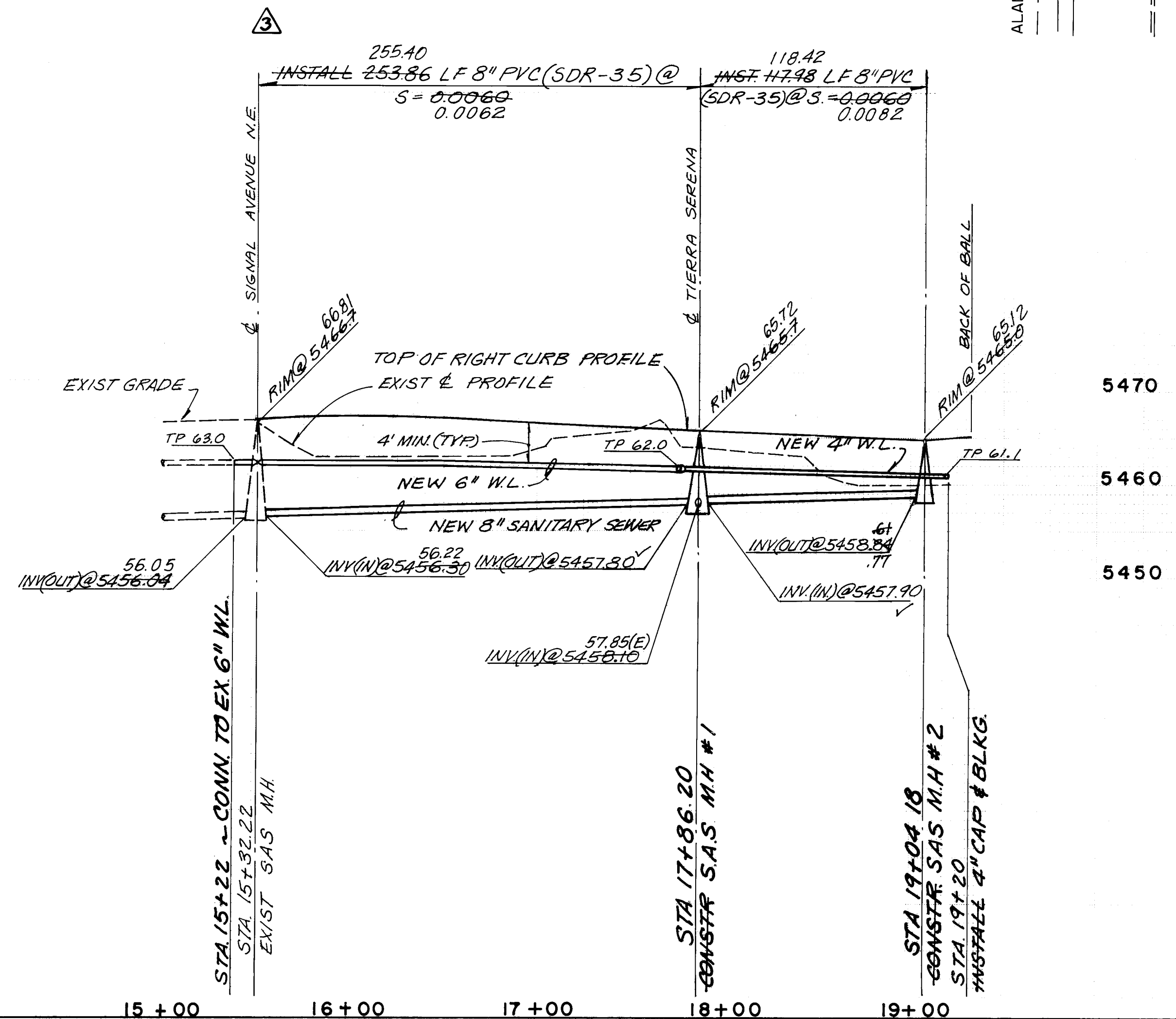
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified and used on future projects.

Jeffrey G. Mortensen, Registered Professional Engineer, No. 8547, State of New Mexico

Date: 11-15-93



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'



RECORD DRAWING

SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR 35).
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. END SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS NOTED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION COST, THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

WATER VALVE SHUTOFF PLAN NOTES:

- AS A MINIMUM, THE FOLLOWING VALVES SHALL BE CLOSED TO EFFECT THE SHUTOFFS SPECIFIED HEREON:
(A) (B) & (C)
- THE CONTRACTOR SHALL NOTIFY WATER SYSTEMS, THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING WATERLINE; ALL SHUTOFFS SHALL BE PERFORMED BY THE WATER SYSTEM DIVISION PERSONNEL (857-8200).
- THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THROUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.
- EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE RECORD DRAWINGS FOR CITY PROJECT 4368.90.
- AT THE TIME OF WATER SHUTOFF APPLICATION, CONTRACTOR SHALL REQUEST THAT THE WATER SYSTEM DIVISION NOTIFY ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE RESPECTIVE SHUTOFFS.
- LOTS 1 THROUGH 7, INCLUSIVE, AND LOTS 31 THROUGH 34, INCLUSIVE, AS A MINIMUM, WILL BE AFFECTED BY THIS SHUTOFF.

NOTE:
RESTRAINED JOINT TABLE PRINTED ON SHEET 5.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **TIERRA LA CUEVA UNIT II
WATER AND SANITARY SEWER EXTENSIONS
TIERRA ALEGRE DRIVE N.E.**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.P. Smith	8-04-93	WATER	R.W. Kane	7-1-93
TRANSPORTATION	J.H. Smith	7-01-93	WASTE WATER	R.W. Kane	7-1-93
HYDROLOGY	J.H. Smith	7-01-93			

PROJECT NO. **4368.91** MAP NO. **C 19** SHEET **13** OF **14**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CITY OF ALBUQUERQUE	DATE	NO.	BY	ENGINEER'S SEAL	DATE
INSPECTOR	DATE	ALBUQUERQUE	DATE	NO.	BY	ENGINEER'S SEAL	DATE
RECORD BY	DATE	ALBUQUERQUE	DATE	NO.	BY	ENGINEER'S SEAL	DATE
RECORD BY	DATE	ALBUQUERQUE	DATE	NO.	BY	ENGINEER'S SEAL	DATE

