SCANNED BY PLANNING

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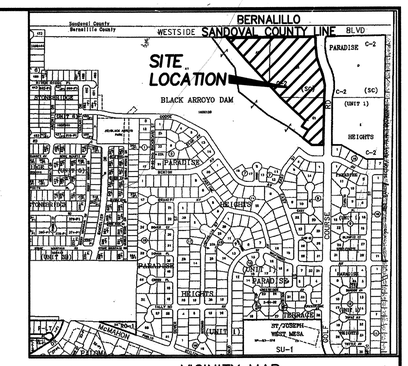
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

CONSTRUCTION PLANS
FOR

VJW STORAGE INC.
INFRASTRUCTURE IMPROVEMENTS



VICINITY MAP
ZONE ATLAS MAP NO. A-12

N

INDEX

AJ 04/14/08

CERTIFICATE OF SUBSTANTIAL COMPLIANCE OF PLANS

"I, Benjamin M. Aragon, 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' 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."

Benjamin M. Aragon, P.S. NM 15268 — Date 8-20-08

CERTIFICATE OF SUBSTANTIAL COMPLIANCE OF PLANS

I, Mario Juarez-Infante of the firm Wilson & Company, a Registered Professional Engineer in the State of New Mexico, NMPE number 15340, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under by direction ~~and survey information provided by Timothy Aldrich NMPS Number 7719.~~

Mario Juarez-Infante, PE — Date 08/20/08

MARIO G. JUAREZ-INFANTE NEW MEXICO 15340 LICENSED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION

JOHN P. KELLY, P.E. — DATE
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

DRB NO. 1004976

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

APPROVALS	ENGINEER	DATE
DRC Chairman		4/21/08
Transportation		3/26/08
Water/Wastewater	N/A	2-12-08
Hydrology		
Parks		
Constr. Mngmt.		
Constr. Coord.		

APPROVED FOR CONSTRUCTION
City Engineer — Date 5-16-08

City Project No. 7718.83 — Sheet 1 Of 22

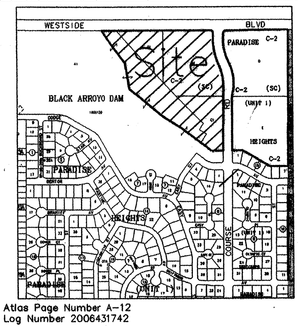
RECORD DRAWING DATE 8/20/08

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 11-24-2008

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 100
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA FILE NO. 0660005500

Amended Plat of
Tracts A-1-A, B-1-A, B-1-B & C-1-A
Being a Replat of
Tracts A-1, B-1 & C-1
Black Arroyo Dam
Town of Alameda Grant
Projected Section 1
T.11N., R.2E. N.M.P.M.
City of Albuquerque
Bernalillo County, New Mexico
February 2007



Vicinity Map
no scale

Zone Atlas Page Number A-12
Talos Log Number 2006431742

SUBDIVISION DATA

1. Total gross acreage: 13.3341 acres
2. Zoning: C-2(SC)
3. Total number of lots created by this plat is 4.
4. The basis of bearings for this survey is the northerly property line of said Tract "A-1", as shown on the plat of Black Arroyo Dam, filed March 5, 1992 in Plat Book 92C, Page 34. Bearings are New Mexico State Plane Grid, Central Zone. Distances are ground.
5. Measured bearings and distances are identical to record. The bearings of the permanent easement to the City of Albuquerque have been rotated to match plat bearings.
6. The purpose of this plat is to replat three tracts into four tracts, vacate the floating private drainage easement, dedicate additional public right-of-way, and grant easements necessary to serve the four tracts.
7. Unless otherwise indicated all corners are set 1/2" rebar w/cap LS 6126.
8. Date of field survey: October 3, 2005.
9. Documents used in the preparation of this survey: plat of Black Arroyo Dam, filed in the office of the County Clerk of Bernalillo County, New Mexico, on March 5, 1992, in Plat Book 92C, page 34; Title Commitment File Number 6218000427, effective September 21, 2005, issued by Commonwealth Land Title Insurance Company, countersigned by LandAmerica Albuquerque Title Company; Plat of Paradise Heights Unit 1, recorded December 13, 1966, Plat Book D3, Pages 154-155; Permanent Easement granted to the City of Albuquerque recorded in Book A30, page 4242, records of Bernalillo County, New Mexico; Warranty Deed recorded May 31, 1983, Book D185-A, Page 676.

New Mexico Utilities Note

Public utility easements shown on this plat are also granted for the common and joint use of New Mexico Utilities, Inc., for the installation, maintenance and service of underground water and sanitary sewer lines, valves and other equipment and facilities reasonably necessary to provide water and sanitary sewer service.

PUBLIC UTILITY EASEMENTS

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

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

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

3. Qwest Telecommunications 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.

4. Comcast, Inc. for the installation, maintenance and service of such lines, cable and 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 National Electric Safety Code caused by construction or pools, decking, or any structures adjacent to, within, or near easements shown on this plat.

PNM ELECTRIC SERVICES	3-19-07 DATE
PNM GAS SERVICES	3-19-07 DATE
QWEST TELECOMMUNICATIONS	3.19.07 DATE
COMCAST, INC.	3.19.07 DATE

Easements for electric transformers/switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

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.

DOCH 2007099747
07/16/2007 03:46 PM Page: 1 of 4
PLAT R:222.00 M: 20.00 P: 0100 M. Toulouse, Bernalillo County

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC # 101406 [illegible]
PROPERTY OWNER OF RECORD
CALABACILLAS GROUP
BERNALILLO COUNTY TREASURER'S OFFICE
7-11-07

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC # 101406 [illegible]
PROPERTY OWNER OF RECORD City of Albuquerque
BERNALILLO COUNTY TREASURER'S OFFICE
7/16/07

LEGAL DESCRIPTION

Tracts "A-1", "B-1" and "C-1" of Black Arroyo Dam, as the same are shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on March 5, 1992, in Plat Book 92C, page 34.

FREE CONSENT AND DEDICATION

The platting of the land comprising Tracts A-1-A, B-1-A, B-1-B and C-1-A as shown hereon and all easements shown hereon are with the free consent of and in accordance with the wishes and desires of the undersigned owners and proprietors thereof. Said owners do hereby grant all easements shown hereon, including the right of ingress and egress and the right to trim interfering trees. Said owners do hereby dedicate the additional public right-of-way shown hereon to the City of Albuquerque in Fee Simple with Warranty Covenants. Said owners warrant that they hold among them complete and indefeasible title in fee simple to the land subdivided.

Calabacillas Group, a New Mexico general partnership

Donald D. Harville

Donald D. Harville, Trustee of the Donald D. and Beverley Harville Revocable Trust UTA dated February 9, 1983

ACKNOWLEDGMENT

State of New Mexico
County of Bernalillo } ss

This instrument was acknowledged before me this 23rd day of February, 2007 by Donald D. Harville, on behalf of said Revocable Trust.

Notary Public _____ My Commission expires 03/12/2010

OFFICIAL SEAL
DIANA STONEBERGER
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires 03/12/2010

Donald D. Harville

Donald D. Harville, Trustee of the Donald D. Harville, M.D., P.A. Profit-Sharing Trust.

ACKNOWLEDGMENT

State of New Mexico
County of Bernalillo } ss

This instrument was acknowledged before me this 23rd day of February, 2007 by Donald D. Harville on behalf of said Profit-Sharing Trust.

Notary Public _____ My Commission expires 03/12/2010

OFFICIAL SEAL
DIANA STONEBERGER
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires 03/12/2010

Glen Goldston

ACKNOWLEDGMENT

State of NEW MEXICO
County of BERNALILLO } ss

This instrument was acknowledged before me this 23 day of February, 2007 by Glen Goldston.

Notary Public _____ Commission expires Oct 28, 2007

DOCH 2007102598
07/26/2007 03:48 PM Page: 1 of 4
PLAT R:222.00 M: 20.00 P: 0100 M. Toulouse, Bernalillo County

PROJECT NUMBER 1004976
Application Number 07DRB-00303

Note: This plat is amended to add a curve table to sheet 3. No other changes were made.

The purpose of this plat is to replat 3 tracts into 4 tracts; vacate the floating private drainage easement; dedicate additional public right-of-way; and grant easements necessary to serve the four tracts.

APPROVED AND ACCEPTED BY:

CITY SURVEYOR	2-28-07 DATE
REAL PROPERTY DIVISION	7/11/07 DATE
NEW MEXICO UTILITIES, INC.	3-19-07 DATE
TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	7-11-07 DATE
WATER UTILITY DEPARTMENT ABCWUA	7/11/07 DATE
PARKS & RECREATION DEPARTMENT	7/11/07 DATE
A.M.F.C.A.	3-19-07 DATE
CITY ENGINEER	7/11/07 DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT	7/11/07 DATE

SURVEYOR'S AFFIDAVIT

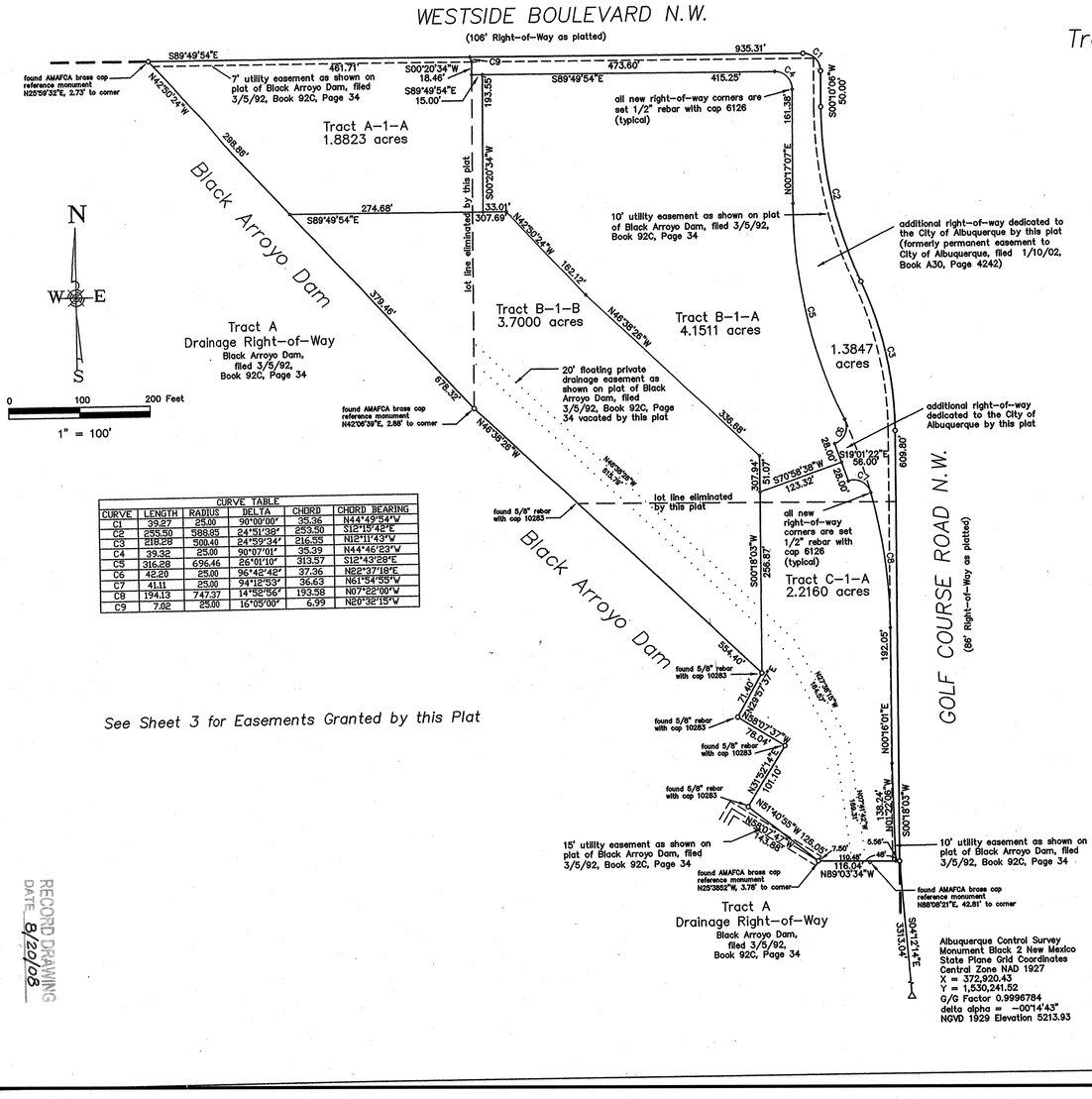
I, Ronald A. Forstbauer, registered New Mexico Land Surveyor No. 6126, do hereby certify that the plat shown hereon was prepared by me or under my direct supervision from an actual field survey and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance and the City Detailed Design Standards for surveying and meets the Standards for Land Surveys in New Mexico as adopted by the New Mexico Board of Registration for Professional Engineers and Professional Land Surveyors effective October 1, 2000 and shows easements of record as indicated on Title Commitment No. 6218000427, effective September 21, 2005 issued by Commonwealth Land Title Insurance Company, countersigned by LandAmerica Albuquerque Title, and that the information shown hereon is true to the best of my knowledge and belief.

7/11/07
Ronald A. Forstbauer Date
N.M.L.S. No. 6126

PROFESSIONAL SURVEYOR 6126 NEW MEXICO RONALD A. FORSTBAUER

Forstbauer Surveying, L.L.C.
4116 Lomas Boulevard NE
Albuquerque, New Mexico 87110
(505) 268-2112 Fax 268-2032

Lot Geometry



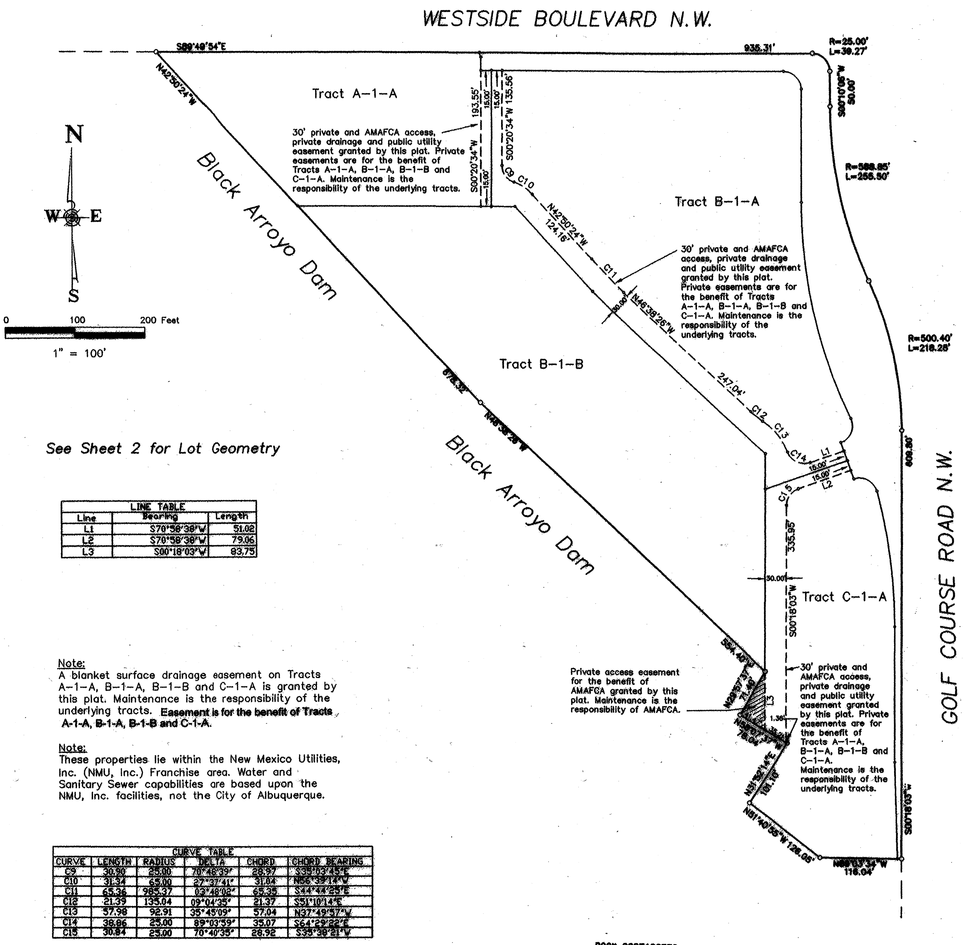
CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	39.27	25.00	90°00'00"	35.36	N44°49'54"W
C2	263.50	588.85	24°51'38"	262.50	S12°15'43"E
C3	218.29	509.49	24°32'34"	216.55	N12°11'43"W
C4	39.32	25.00	90°07'01"	35.39	N44°46'23"W
C5	316.28	696.46	25°01'10"	313.57	S12°43'29"E
C6	42.20	25.00	96°42'42"	37.36	N22°37'18"E
C7	41.11	25.00	94°12'53"	36.63	N61°54'55"W
C8	194.13	747.37	14°52'56"	193.58	N07°22'09"W
C9	7.02	25.00	16°05'00"	6.99	N20°32'15"W

See Sheet 3 for Easements Granted by this Plat

Tracts A-1-A, B-1-A, B-1-B & C-1-A
Being a Replat of
Tracts A-1, B-1 & C-1
Black Arroyo Dam
Town of Alameda Grant
Projected Section 1
T.11N., R.2E. N.M.P.M.
City of Albuquerque
Bernalillo County, New Mexico
February 2007

Forstbauer Surveying, L.L.C.
4116 Lomas Boulevard NE
Albuquerque, New Mexico 87110
(505) 268-2112 Fax 268-2032

Detail Easements Granted by this Plat



See Sheet 2 for Lot Geometry

LINE TABLE		
Line	Bearing	Length
L1	S70°58'38"W	51.02
L2	S70°58'38"W	79.06
L3	S80°18'03"W	83.75

Note:
A blanket surface drainage easement on Tracts A-1-A, B-1-A, B-1-B and C-1-A is granted by this plat. Maintenance is the responsibility of the underlying tracts. **Easement is for the benefit of Tracts A-1-A, B-1-A, B-1-B and C-1-A.**

Note:
These properties lie within the New Mexico Utilities, Inc. (NMU, Inc.) Franchise area. Water and Sanitary Sewer capabilities are based upon the NMU, Inc. facilities, not the City of Albuquerque.

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C9	30.80	25.00	70°48'39"	28.92	S35°03'45"E
C10	31.54	65.00	27°31'41"	31.22	N62°39'16"W
C11	65.36	955.37	03°48'02"	65.35	S44°44'25"E
C12	91.39	135.04	09°04'35"	91.37	S51°18'14"E
C13	57.98	92.91	35°45'09"	57.04	N37°49'37"W
C14	38.86	25.00	89°03'39"	35.07	S64°39'22"E
C15	30.84	23.00	70°40'35"	28.92	S35°39'21"W

DOC# 2007102550
07/19/2007 03:40 PM Page: 3 of 4
PLAT R:222.00 M: 0.00 P: 0.00 T: 0.00 R: 0.00 Toulouse, Bernalillo County

Amended Plat of

Tracts A-1-A, B-1-A, B-1-B & C-1-A

Being a Replat of

Tracts A-1, B-1 & C-1

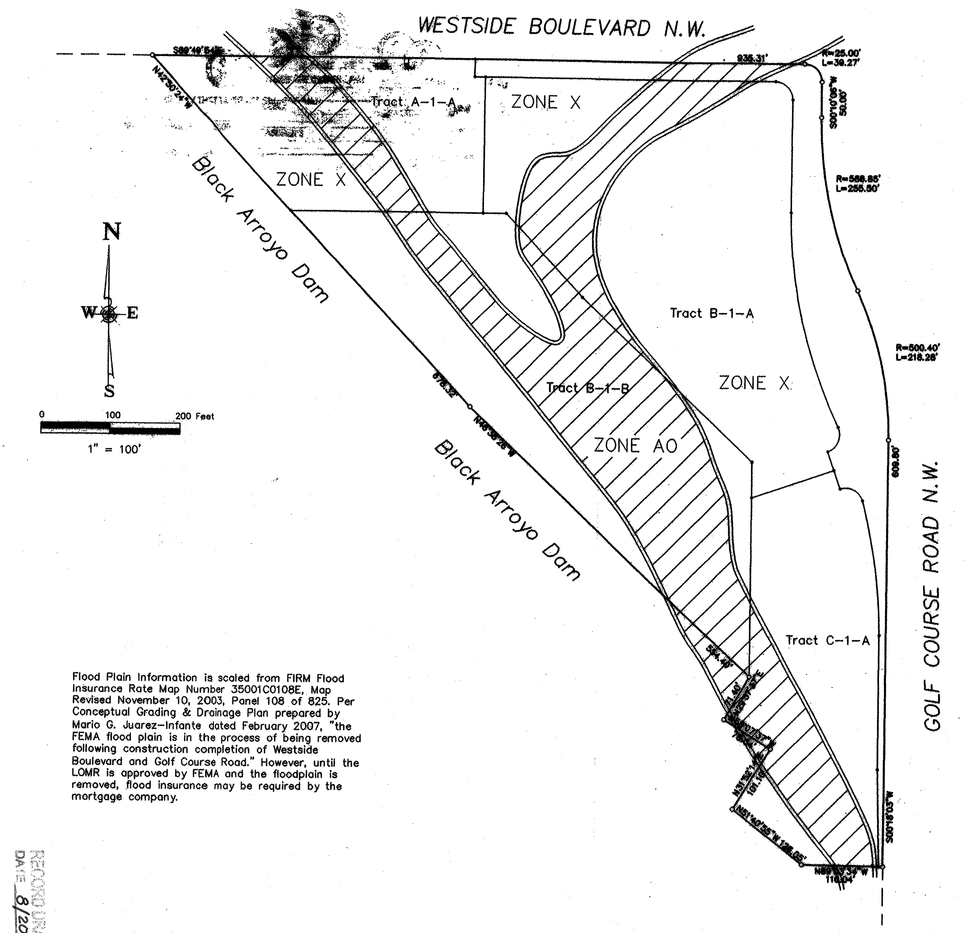
Black Arroyo Dam

Town of Alameda Grant
Projected Section 1
T.11N., R.2E. N.M.P.M.
City of Albuquerque
Bernalillo County, New Mexico
February 2007

DOC# 2007099747
07/11/2007 03:21 PM Page: 1 of 4
PLAT R:222.00 M: 0.00 P: 0.00 T: 0.00 R: 0.00 Toulouse, Bernalillo County

Forstbauer Surveying, L.L.C.
4116 Lomas Boulevard NE
Albuquerque, New Mexico 87110
(505) 268-2112 Fax 268-2032

Flood Plain Location



Flood Plain Information is scaled from FIRM Flood Insurance Rate Map Number 35001C0108E, Map Revised November 10, 2003, Panel 108 of 825. Per Conceptual Grading & Drainage Plan prepared by Mario G. Juarez-Infante dated February 2007, "the FEMA flood plain is in the process of being removed following construction completion of Westside Boulevard and Golf Course Road." However, until the LOMR is approved by FEMA and the floodplain is removed, flood insurance may be required by the mortgage company.

RECORD DRAWING
DATE 8/20/08

DOC# 2007102550
07/19/2007 03:40 PM Page: 4 of 4
PLAT R:222.00 M: 0.00 P: 0.00 T: 0.00 R: 0.00 Toulouse, Bernalillo County

Amended Plat of

Tracts A-1-A, B-1-A, B-1-B & C-1-A

Being a Replat of

Tracts A-1, B-1 & C-1

Black Arroyo Dam

Town of Alameda Grant
Projected Section 1
T.11N., R.2E. N.M.P.M.
City of Albuquerque
Bernalillo County, New Mexico
February 2007

DOC# 2007099747
07/11/2007 03:21 PM Page: 1 of 4
PLAT R:222.00 M: 0.00 P: 0.00 T: 0.00 R: 0.00 Toulouse, Bernalillo County

Forstbauer Surveying, L.L.C.
4116 Lomas Boulevard NE
Albuquerque, New Mexico 87110
(505) 268-2112 Fax 268-2032

Sheet 4 of 4

SCANNED BY PLANNING

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS (EXCEPT FOR WATER & WASTEWATER, SEE GENERAL NOTE 6) TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2003 EDITION AS AMENDED THROUGH UPDATE NO. 7, THE NEW MEXICO STATE HIGHWAY & TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY & BRIDGE CONSTRUCTION 1994 EDITION, & THE NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER & WASTEWATER FACILITIES, AS REVISED ON 12/31/2003.

2. CONTRACTOR SHALL NOTIFY THE PROJECT 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 BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN 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 GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

3. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC., (260-1990) FOR LOCATION OF EXISTING UTILITIES.

5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

6. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC., SPECIFICATIONS FOR WATER AND WASTE WATER FACILITIES (MOST RECENT REVISIONS).

7. THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES (898-2661) THREE (3) WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.

8. THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.

9. THE CONTRACTOR SHALL FURNISH ELECTRO MAGNETIC DISK'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS, AND PLUGS.

10. ALL DRY UTILITIES AND WET UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

11. UTILITY CROSSINGS: SERVICE LINE UTILITY CROSSINGS, WHICH HAVE MORE THAN ONE LINE WITH A TWO-FOOT 3-DIMENSIONAL PRISM, SHALL BE PAID FOR AS ONE CROSSING. SERVICE LINE IS DEFINED AS A 4" DIAMETER OR SMALLER LINE. TRUNK UTILITY LINE CROSSINGS, WHICH HAVE MORE THAN ONE LINE WITHIN A TWO-FOOT 3-DIMENSIONAL PRISM, SHALL BE PAID FOR AS ONE CROSSING. TRUNK LINE IS DEFINED AS GREATER THAN 4" DIAMETER LINE.

12. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.

13. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

14. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.

15. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS IN EXISTING STRIPING LOCATIONS UNLESS OTHERWISE INDICATED BY THIS PLAN SET.

16. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, OR REMOVAL AND REPLACEMENT, OF ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, SIDEWALK, WHEELCHAIR RAMP OR ANY OTHER EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS.

18. FOR STORM DRAIN CONSTRUCTION, RCP PIPE SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

19. MAINTENANCE OF AS-BUILT PLANS:
THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY AMAFCA AND THE PROJECT ENGINEER THROUGHOUT THE PROJECT, AND WILL BE REVIEWED FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO AMAFCA AND THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT. FAILURE TO MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS SHALL BE SUBJECT TO A $100/DAY FINE FOR EACH WORK DAY NOT REFLECTED ON PLANS. PAY DEDUCTION SHALL BE DEDUCTED FROM UNIT BID ITEM FOR CONSTRUCTION AS-BUILTS

20. CLEANING OF EXISTING STRUCTURES:
THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL PRIOR TO INITIATING STRUCTURE EXTENSION WORK. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THE CATTLE GUARD AT IRVING/LYON BLVD. INTERSECTION SHALL BE CLEAN AT ALL TIMES. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE THEREFORE.

21. ACCESS TO LOCAL BUSINESSES AND RESIDENCES:
THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 48 HOURS IN ADVANCE WITH THE PROPERTY OWNERS AND THE CITY OF ALBUQUERQUE AND BERNALLILO COUNTY. THE COST FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO DIRECT PAYMENT WILL BE MADE THEREFORE.

22. FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO AMAFCA AND THE PROJECT ENGINEER A DETAILED CONSTRUCTION SCHEDULE. CONSTRUCTION SCHEDULE SHALL CONFORM TO THE CRITICAL PATH METHODOLOGY AND SHALL CLEARLY ILLUSTRATE ACTIVITY TASKS, A LOGICAL NETWORK SEQUENCE: EARLY START, EARLY FINISH, LATE START, LATE FINISH, FREE FLOAT TIME, TOTAL FLOAT TIME, AND INDEPENDENT FLOAT TIME FOR INDIVIDUAL TASKS; TASK SUMMARIES, AND OVERALL PROJECT. CPM SCHEDULE SHALL BE UPDATED AND SUBMITTED WITH EACH PAY APPLICATION OR AT LEAST EVERY 30 DAYS (MINIMUM). FAILURE TO SUBMIT PERIODICALLY (30 DAYS MIN.) REVISED CPM SCHEDULE AS REQUIRED SHALL BE SUBJECT TO A $250.00 FINE FOR EACH CALENDAR DAY LATE. PAY DEDUCTION SHALL BE DEDUCTED FROM UNIT BID ITEM FOR CONSTRUCTION SCHEDULE.

23. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE EXECUTION OF THE WATER VALVE SHUTOFF PLAN WITH NEW MEXICO UTILITIES. ALL WATER VALVES TO BE SHUT OFF WILL BE TESTED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO SHUT OFF. VALVES ARE TO BE OPERATED BY N.M. UTILITIES PERSONNEL ONLY. CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES AT 898-2661 FORTY-EIGHT (48) HOURS PRIOR TO WATERLINE CONSTRUCTION.

24. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST TWO (2) WORKING DAYS PRIOR TO EITHER TAKING FIRE HYDRANTS OUT OF SERVICE OR RETURNING THEM TO SERVICE.

25. VIDEO RECORDINGS OF THE CONSTRUCTION AREA, STRUCTURES, AND AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL BE MADE AND MAINTAINED. SPECIAL ATTENTION SHALL BE GIVEN TO THE STRUCTURES IMMEDIATELY PARALLEL AND ADJACENT TO LYON BOULEVARD, LOCATED ON THE EAST AND WEST SIDES, AND BETWEEN IRVING BOULEVARD AND PARADISE BOULEVARD. SPECIAL ATTENTION SHALL ALSO BE PAID TO ITEMS SUCH AS STRUCTURES AND PROPERTIES ABUTTING THE PROJECT LIMITS, WATERCOURSES, AND OTHER AREAS SUBJECT TO DAMAGE OR EROSION, AND AS DIRECTED BY THE PROJECT ENGINEER.

THE VIDEO RECORDINGS WILL BE USED TO DETERMINE ANY IMPACTS ON STRUCTURES AND AREAS DUE TO THE CONTRACTOR'S OPERATIONS. THE TERM VIDEOTAPE IS USED INTERCHANGEABLY TO DESCRIBE VHS AND DVD VIDEO RECORDING.

26. VIBRATION MONITORING SHALL BE PERFORMED IN AND AROUND ALL STRUCTURES AS DEFINED IN SECTION 101, ABBREVIATIONS, DEFINITIONS, AND TERMS; AS INDICATED IN THE CONTRACT, AND AS DIRECTED BY THE PROJECT ENGINEER.

VIBRATION MONITORING SHALL BE PERFORMED TO DETERMINE IF VIBRATIONS POTENTIALLY DAMAGING TO THE ADJACENT STRUCTURES, PARALLEL TO LYON BOULEVARD ON THE EAST AND WEST SIDES, ARE CREATED AS A RESULT OF CONSTRUCTION ACTIVITY RELATED TO THE INSTALLATION OF THE STORM DRAIN. REFER TO FIGURE 1 FOR PARTICULAR LOTS AFFECTED. FIGURE 1 DOES NOT REPRESENT ANY AFFECTED RESIDENTS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A NEW MEXICO LICENSED PROFESSIONAL, QUALIFIED TO IDENTIFY VIBRATION MONITORING LIMITS AS IDENTIFIED IN THE PROJECT SPECIFICATIONS.

27. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN, AT THEIR EXPENSE, A TOPSOIL DISTURBANCE PERMIT FOR THE PROJECT.

28. CONTRACTOR SHALL CONTACT COA TRAFFIC OPS & COORDINATE A "PRE-STRIPING" MEETING ON-SITE, PRIOR TO REPLACEMENT OF ALL PERMANENT STRIPING & MARKINGS.

29. SUCCESSFUL BIDDER WILL BE PROVIDED AN ELECTRONIC ACAD FILE FOR LAYING OUT ROADWAY PAVING, CURB & GUTTER, TEMPORARY ASPHALT CURB, & SIDEWALKS.

30. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATED AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEATH. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.

31. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. PRIOR TO LAYING NEW PAVEMENT, THE EXPOSED EXISTING ASPHALT EDGE SHALL BE TACK-COATED.

32. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING & MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

33. PRIVATE ACCESS: DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SIGNING AND STRIPING (PAVEMENT MARKINGS) WITHIN PRIVATE DEVELOPMENT / ACCESS.

LIST OF INCIDENTALS:

1. UTILITY REPAIR COSTS (EXCLUDES UTILITY CROSSINGS, GENERAL NOTE 11)
2. EARTHWORK HAUL.
3. DESIGN, INSTALLATION, AND REMOVAL OF SHIELDING FOR CONSTRUCTION EQUIPMENT OR MATERIAL WITH IN CONSTRUCTION CLEAR ZONE.
4. HAULING OF SALVAGEABLE MATERIALS.
5. HAULING OF REMOVALS & DISPOSED MATERIAL.
6. WARPING OF SLOPES.
7. CLEANING OF EXISTING STRUCTURES.
8. CONSTRUCTION WATER.
9. UTILITY VERIFICATION, LINE SPOTTING, POT HOLING, AND EXPLORATION.
10. EXISTING SERVICE LINE DISCONNECT AND RECONNECT.
11. OTHER: AS OUTLINED ON THE GENERAL NOTES SHEET.

UTILITY CONTACTS

COMPANY	PHONE	MOBILE	CONTACT
NEW MEXICO UTILITIES	505.898.2661		A.S. WARNER
PNM – ELECTRIC	505.241.3421	505.934.8798	ART CHAVEZ
PNM – GAS	505.241.7771		JOE DUNLOP
QWEST	505.245.8530		ROSARIO KNIFFIN
NM ONE CALL	505.260.1990		
COMCAST	505.761.6235		ROBERT MARTINEZ

AMAFCA NOTES

1. AMAFCA Field Engineer shall be notified 48-hours prior to any work within the AMAFCA R/W Tel at 884-2215.
2. No work will be performed int the AMAFCA R/W between May 15 and October 15 without written permission from AMAFCA.
3. All subgrade, backfill and embankment shall be compacted to 95% (modified proctor) within the AMAFCA R/W. Testing reports shall be provided to AMAFCA Field Engineer.
4. AMAFCA Field Engineer will be notified 48 hours prior to final inspection of any facilities within the AMAFCA R/W.
5. All disturbed ground areas shall be revegetated in accordance with City of Albuquerque Standard Specifications for Public Works Construction, Section 1012 Native Grass Seeding, as currently updated.
6. Any existing survey control monuments that are moved or destroyed as a resualt of the construction shall be replaced by a registered surveyor at the owner's expense.
7. Owner's contractor shall provide liability insurance naming AMAFCA as additional insured in the amount of $2,000,000.00 . Proof of insurance shall be provided to AMAFCA prior to construction.

Approved For Construction Within AMAFCA Right-of-way:

Lynn M. Mazur 2-20-08
For AMAFCA DATE

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED:

- ☑ 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 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.
- ☑ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☑ FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

AS-BUILT INFORMATION
CONTRACTOR UNIVERSAL CONSTRUCTORS CITIZEN CONSTRUCTION DATE 4/08
WORK STAKED BY WCI DATE 8/08
INDEX WORK ACCEPTANCE BY WCI DATE 8/08
FIELD VERIFICATION BY WCI DATE 8/08
DRAWINGS CORRECTED BY WCI DATE 8/08
CONTROL MICRO-FILM INFORMATION DATE
RECORDED BY
NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE	
1	WCI	4/7/08	ACS BRASS TABLET STAMPED "BLACK 2 1977"
2	WCI	4/18/08	GEOGRAPHIC POSITION (NAD 1927)
3	WCI	4/21/08	N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X= 372,920.43 Y= 1,530,241.52
4	WCI	4/29/08	GROUND-TO-GRID FACTOR= 0.9996692
5	WCI	5/28/08	Δ= -0014'43"
6	WCI	6/17/08	SLD 1929 ELEVATION= 5213.926
7	WCI	6/19/08	

ENGINEER'S SEAL

MARIO J. MARTINEZ INFANTE (15340) LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

RECORD DRAWING
DATE 8/20/08

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
GENERAL NOTES

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA #0660003900

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 7718.83 | Zone Map No. A-12 & A-13 | Sheet 4 Of 22

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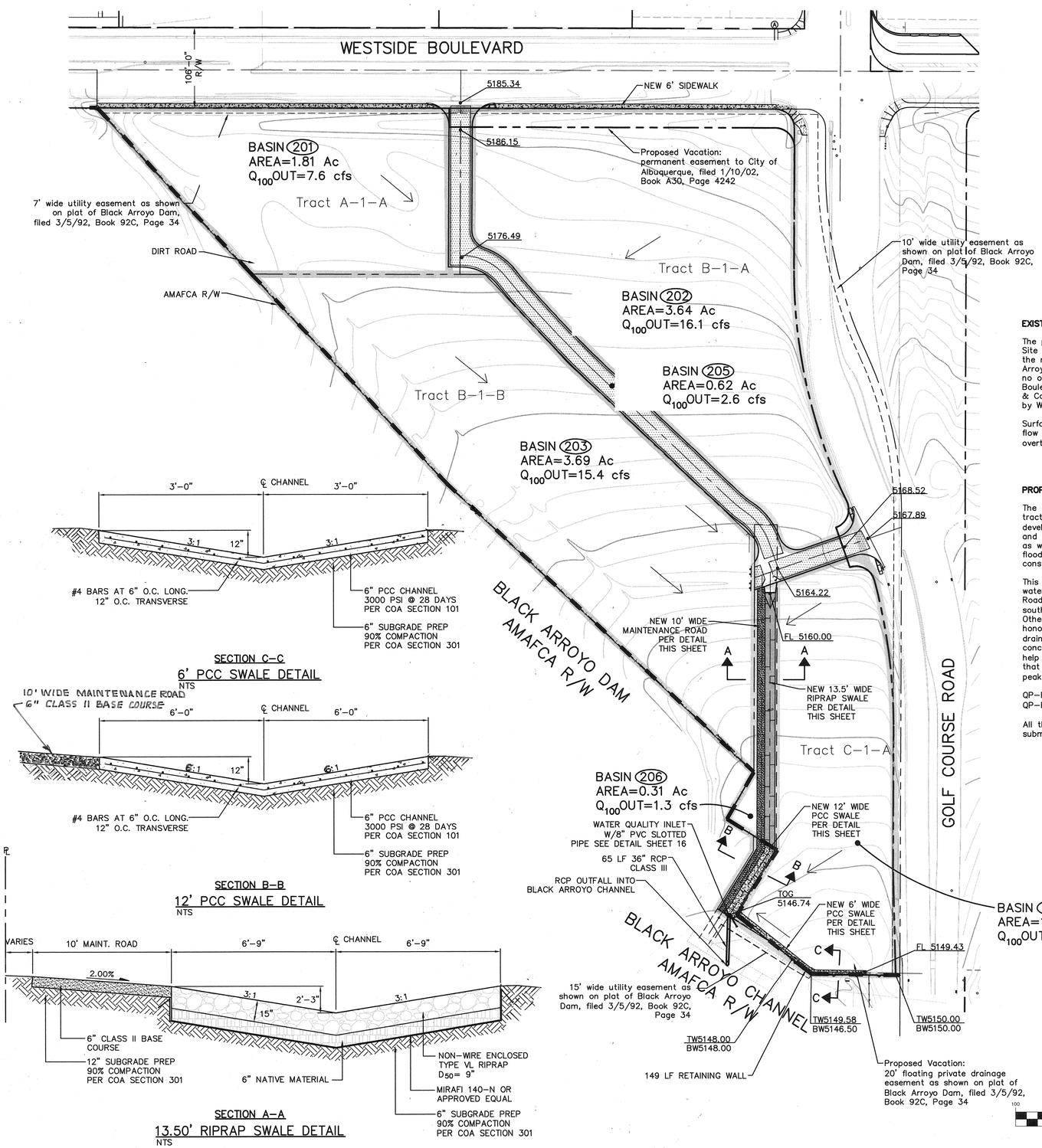


SECTION C-C
6' PCC SWALE DETAIL
NTS

SECTION B-B
12' PCC SWALE DETAIL
NTS

SECTION A-A
13.50' RIPRAP SWALE DETAIL
NTS

LEGEND

- PROPOSED DRAINAGE BASIN BOUNDARY
- 5185.34 PROPOSED SPOT ELEVATION
- FLOW DIRECTION
- PROPOSED RIPRAP SWALE
- PROPOSED CONCRETE SWALE
- PROPOSED ASPHALT PAVING
- PROPERTY LINE
- AMAFCA R/W

EXISTING CONDITIONS:

The project site is approximately 12.3 acres of Type C, soil compacted by human activity. Site topography generally slopes north to south and is bounded by the Bernalillo County on the north, Golf Course Road on the east, Black Arroyo Channel on the south, and the Black Arroyo Dam on the west. The area lies within Precipitation Zone 1. At present there are no offsite flows that enter into the site as per the approved drainage report of Westside Boulevard Storm Drain between East Branch Channel to Seven Bar Loop Road NW by Wilson & Company dated May 22, 2006, and Golf Course Road Drainage System Analysis, prepared by Wilson & Company dated April 2006.

Surface drainage sheet flows north to south with a slope varying 3-4%. Historically, sheet flow is concentrated at the south end of the site and enters Black Arroyo Channel by overtopping the sill. Traditionally, the site discharges approximately 35.2 ft3/s.

QP-Existing = Q*AC
QP-Existing = 2.87 ft3/s * 12.3 acre = 35.2 ft3/s

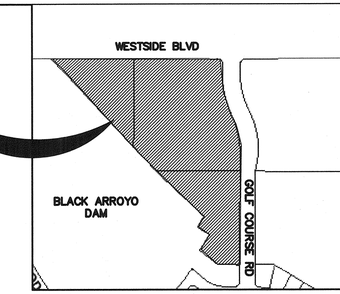
PROPOSED CONDITIONS:

The site will be re-plated into four tracts and sold individually for commercial use. The tracts are identified as Tract A-1-A, B-1-A, B-1-B, and C-1-A. Tract B-1-A will be developed as a Storage Unit, including construction of a 30' wide Private Access, Drainage, and Utility Easement. Remaining Tracts will not be graded, hence minimizing dust control as well as surface runoff, until such time the individual tracts are developed. The FEMA flood plain shown on the map hereon is in the process of being removed following construction completion of Westside Boulevard West of Golf Course Road.

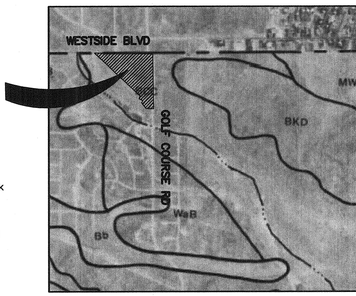
This project will construct the surface conveyance swale, Black Arroyo Channel Penetration, water quality inlet, and access road connections at Westside Boulevard and Golf Course Road. The southeast quadrant of future Tract C-1-A will be filled in and sloped to drain southwest into the water quality inlet with the help of 6' wide channel as shown on plan. Other individual tracts will be required to set future building elevations and grade site to honor the existing north to south drainage pattern. Surface flows may be captured by the drainage easement and conveyed south to the water quality inlet with the help of 12' wide concrete channel as shown on plan and discharged into the Black Arroyo Channel with the help of 36" sd. Section 22.2, A.2, Table A-5. Percent Treatment D (impervious) requires that post hydrology consider 90% impervious land treatment. Therefore, the approximate peak flow is 51.39 ft3/s.

QP-Post Dev. = Q*AB + Q*AC + Q*AD
QP-Post Dev. = 2.03*0.615 acre + 2.87*0.615 acre + 4.37 *11.07 acre = 51.4 ft3/s

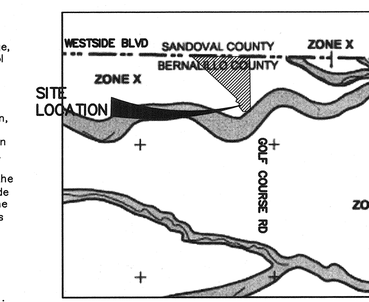
All the applicable drainage analysis for channel and 36" storm drain are attached with this submittal.



LOCATION MAP
ZONE ATLAS MAP NO. A-12



SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY



FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY PANEL 108

LEGAL DESCRIPTION

TRACTS 2-A, B-2 & C-2 & F-1 BLACK ARROYO DAM

BENCH MARK

ACS BRASS TABLET STAMPED "BLACK 2 1977"

For Information Only

RECORD DRAWING
DATE 8/20/08

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA #0660003900

AS-BUILT INFORMATION
CONTRACTOR CERTIFIES TO THE ACCURACY OF THE PLANS AND SPECIFICATIONS
WORK PERFORMED BY PETION CONSTRUCTION, INC. DATE 4/08
INSPECTOR'S ACCEPTANCE BY WCI DATE 8/08
FIELD VERIFICATION BY WCI DATE 8/08
DRAWINGS REVIEWED BY WCI DATE 8/08
RECORDED BY MICRO-FILM INFORMATION DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
Δφ= -0°14'43"
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/17/08
2	WCI	4/18/08
3	WCI	4/21/08
4	WCI	4/22/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL
NARIO G. MARES-SIGANTE
(15340)
NEW MEXICO LICENSED PROFESSIONAL ENGINEER
6/19/08

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY MJI JAN 2008
DRAWN BY STAFF JAN 2008
CHECKED BY MJI JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
OVERALL GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	5	22

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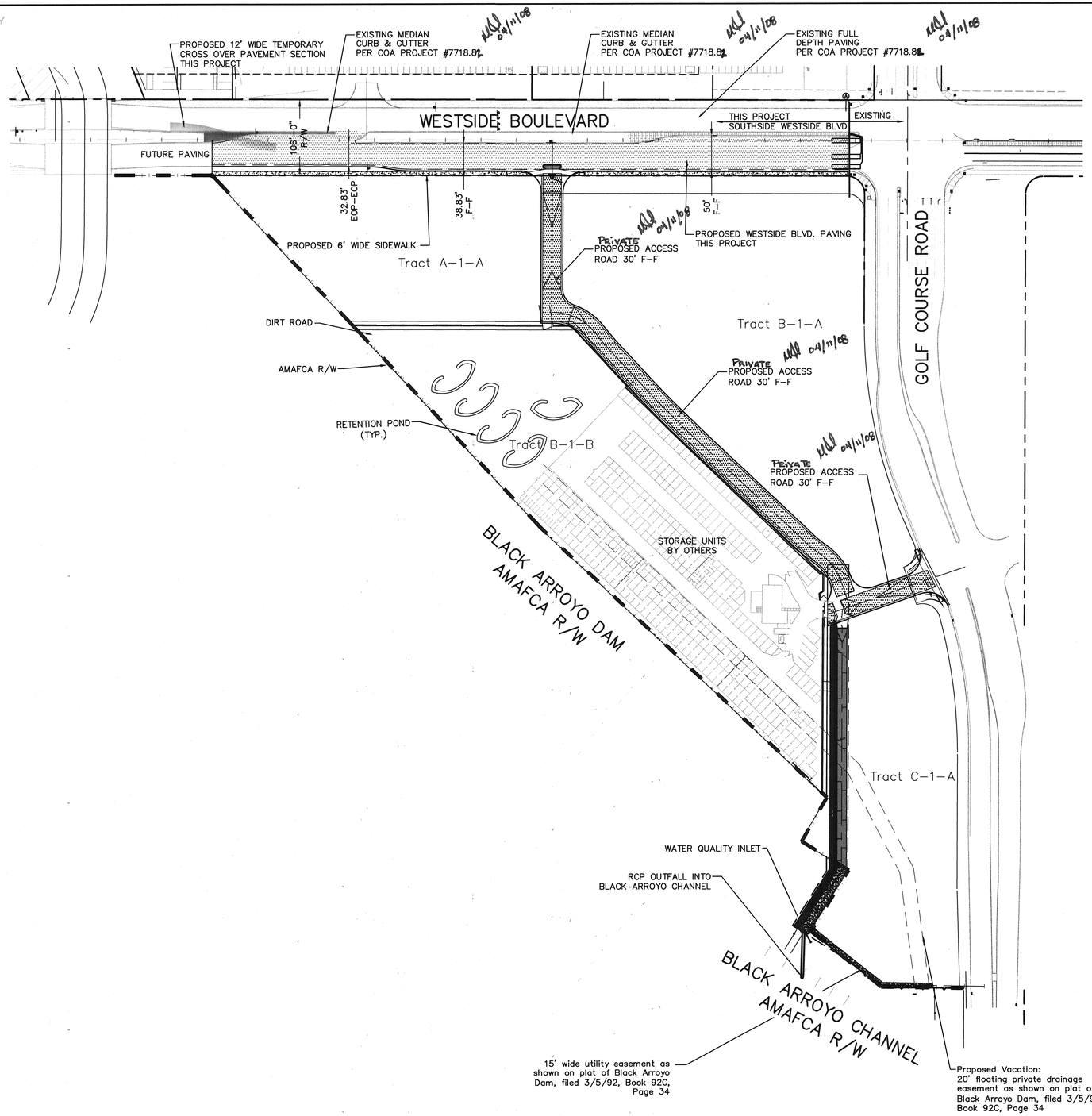

LEGEND

- PROPOSED RETENTION POND
- EXISTING ROW
- PROPOSED ASPHALT
- PROPOSED ASPHALT
- AMAFCA R/W

NOTE: SEE SHEET 5 OF 22 FOR DETAILS OF RIP-RAP AND CONCRETE SWALES

GRAPHIC SCALE

80 0 40 80 160 240

(IN FEET)
1 inch = 80 ft.

WCEA #0660003900

RECORD DRAWING
DATE 8/20/08

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

AS-BUILT INFORMATION

CONTRACTOR	UNIVERSAL CONSTRUCTORS / PYTHON CONSTRUCTION	DATE 4/08
WORKED BY	WCI	DATE 8/08
INSPECTOR'S CHANGES BY	WCI	DATE 8/08
FIELD VERIFICATION BY	WCI	DATE 8/08
DRAWINGS CORRECTED BY	WCI	DATE 8/08

MICRO-FILM INFORMATION

RECORDED BY DATE

NO. DATE

BENCH MARKS

AXIS GROUND-TO-GRID FACTOR= 0.9996692

1. 00°14'43"
2. SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	WCI	4/3/08
2	WCI	4/18/08
3	WCI	4/21/08
4	WCI	4/30/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL

MARIO G. ALVAREZ-INFANTE
15340
NEW MEXICO
PROFESSIONAL ENGINEER
8/20/08

NO.	DATE	REMARKS	BY

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
OVERALL MASTER PAVING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 13 2008 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	6	22

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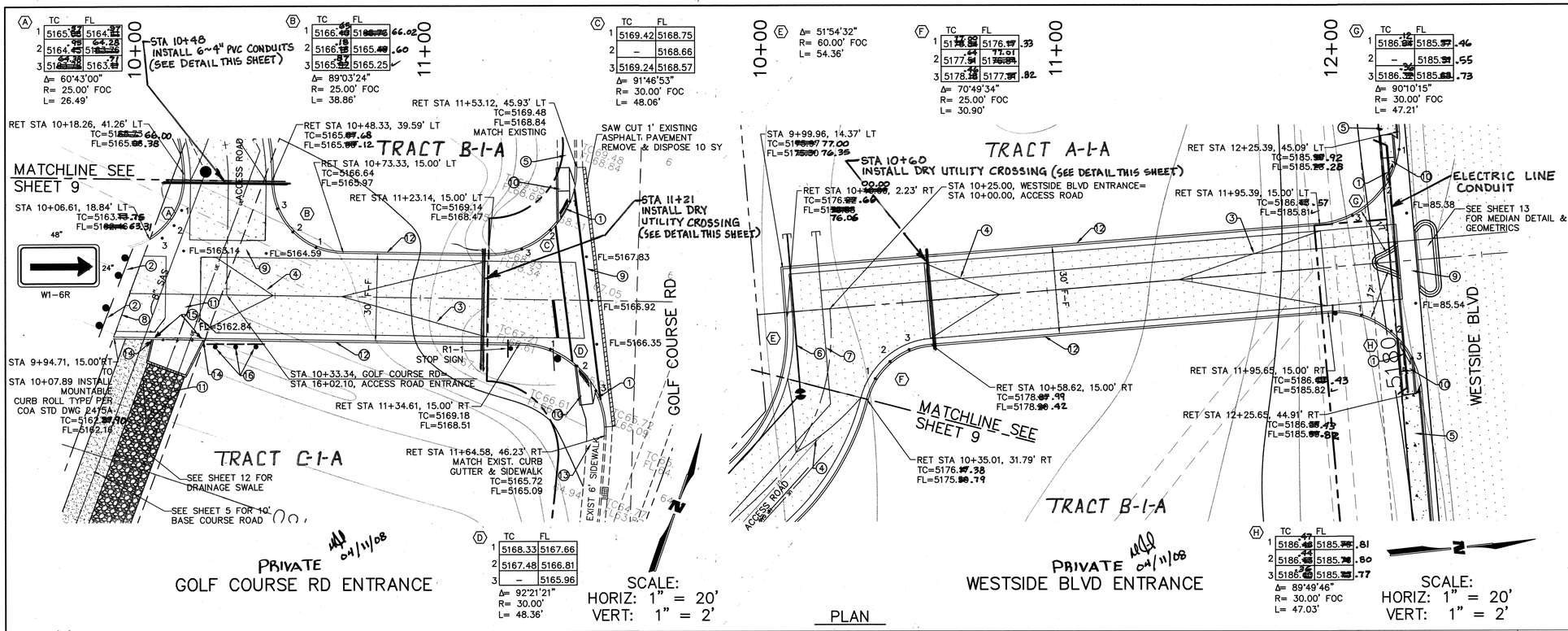

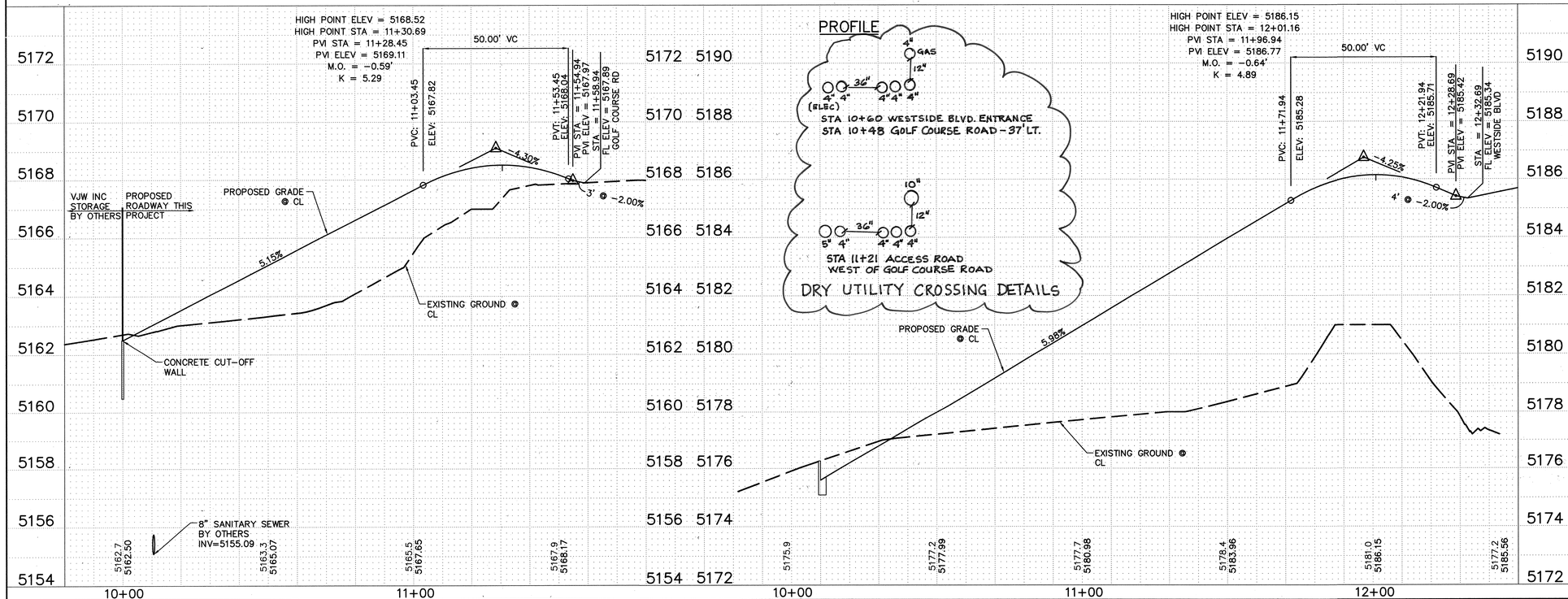

LEGEND

- EXISTING INTERMEDIATE CONTOUR
- 5365 EXISTING INDEX CONTOUR
- EXISTING PROPERTY LINE
- EXISTING SAS
- NEW ASPHALT PAVING
- REMOVE AND DISPOSE

KEY NOTES

1. DETECTABLE WARNING SURFACE SEE SHEET 15
2. TYPE III BARRICADES (2) PER COA STD DWG 2803 WITH W1-6R
3. 50' CROWN TRANSITION PER COA STD DWG 2401
4. 25' CROWN TRANSITION PER COA STD DWG 2401
5. 6' SIDEWALK PER COA STD DWG 2430
6. ~~FUTURE~~ SANITARY SEWER ~~BY OTHERS~~
7. ~~FUTURE~~ WATERLINE ~~BY OTHERS~~
8. CONCRETE CUT-OFF WALL PER COA STD DWG 2415B
9. 6' CONCRETE VALLEY GUTTER SEE SHEET 8
10. WHEELCHAIR RAMP PER COA STD DWG 2426 MATCH EXISTING SIDEWALK
11. 12' CONCRETE VALLEY GUTTER PER COA STD DWG 2422
12. STANDARD CURB & GUTTER PER COA STD DWG 2415A
13. REMOVE DISPOSE AND REPLACE EXISTING SIDEWALK TO NEAREST JOINT SEE KEY NOTE 5
14. TIE STANDARD CURB & GUTTER TO HEADER CURB SEE DETAIL SHEET 16
15. DEPRESSED CURB PER COA STD DWG 2415A
16. DIRECTIONAL SIGN SEE SHEET 14

RECORD DRAWING DATE 8/20/08

AS-BUILT INFORMATION

CONTRACTOR: PITNER CONSTRUCTION — DATE 4/08
WORK INSPECTORS ACCEPTANCE BY: WCI — DATE 8/08
FIELD VERIFICATION BY: WCI — DATE 8/08
DRAWINGS CORRECTED BY: WCI — DATE 8/08
MICRO-FILM INFORMATION — DATE
RECORDED BY — DATE — NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	WCI	4/1/08
2	WCI	4/19/08
3	WCI	4/21/08
4	WCI	4/29/08
5	WCI	5/28/08
6	WCI	6/1/08
7	WCI	6/19/08

ENGINEER'S SEAL

NEW MEXICO LICENSED PROFESSIONAL ENGINEER 5240 MARK J. MAJKA 3/20/08

NO.	DATE	REMARKS	BY

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE

WESTSIDE BLVD & GOLF COURSE RD ENTRANCE
PLAN & PROFILE

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 1 8 2008 DESIGN REVIEW COMMITTEE
Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	7	22

WCEA #0660003900

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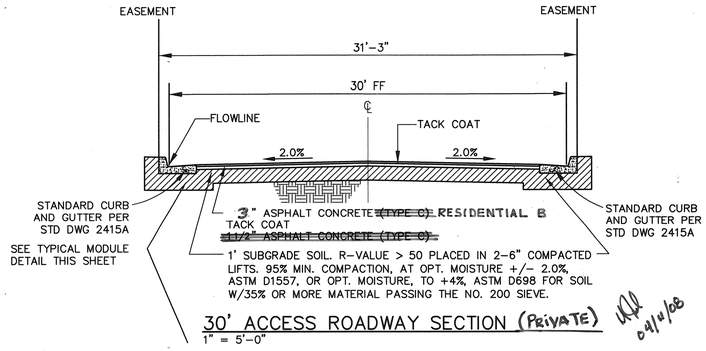
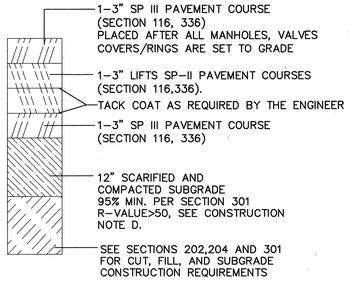


30' ACCESS ROADWAY SECTION (PRIVATE)

1" = 5'-0"

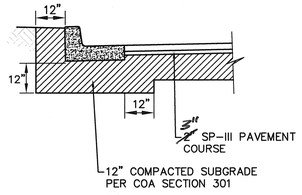
04/14/08



FLEXIBLE PAVEMENT SECTION (PER 2407)

NTS

PER COA PROJECT #7718.81



TYPICAL MODULE DETAIL

SCALE: NTS

SEE FLEXIBLE PAVEMENT SECTION (2407)

GENERAL NOTES:

1. STATIONS & OFFSETS REFERENCE FACE OF CURB.

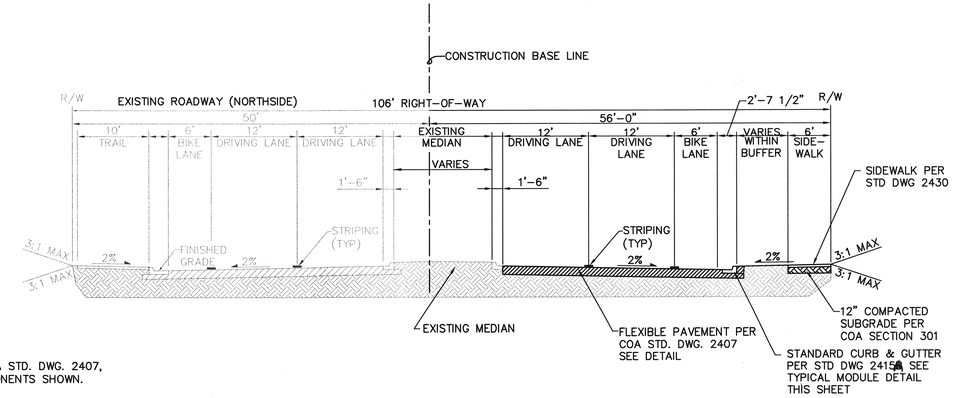
CONSTRUCTION NOTES:

A. PAVING TO BE CONSTRUCTED AS DETAILED PER COA STD. DWG. 2407, EXCEPT PAVING SECTIONS SHALL CONSIST OF COMPONENTS SHOWN.

B. EARTH WORK FOR THE PROJECT SHALL BE PERFORMED AS DETAILED IN SECTION 200, COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

C. PRIOR TO PLACING BASE COURSE AND ASPHALTIC CONCRETE, AN APPROVED SOIL STERILANT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

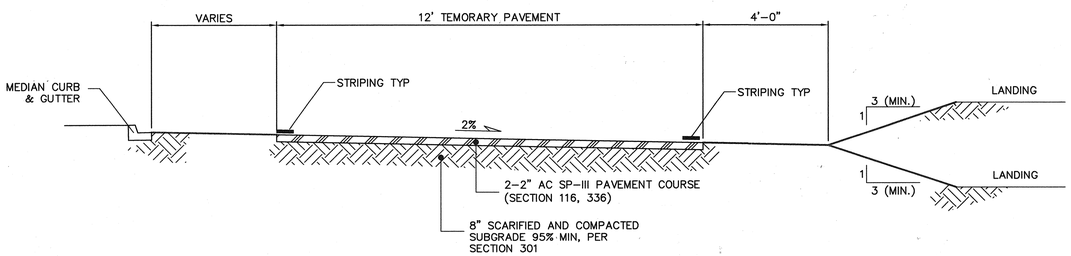
D. TESTING SHALL BE PERFORMED ON THE SUBGRADE SOILS DURING CONSTRUCTION, PER SECTION 301 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, BUT NOT LESS THAN EVERY 250 SY OF SUBGRADE PREP. TO CONFIRM R-VALUE OF 50 OR GREATER. *IF DURING CONSTRUCTION SUBGRADE SOILS WITH R-VALUE LESS THAN 50 ARE ENCOUNTERED THE AREA WITH THIS SOIL SHALL BE OVER EXCAVATED 2 FEET BELOW FINISHED SUBGRADE AND IMPORTED SUBGRADE SOIL. R-VALUE > 50 PLACED IN 4-6" COMPACTED LIFTS. 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT. MOISTURE, TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE SHALL BE INSTALLED.



WESTSIDE BOULEVARD
PROPOSED TYPICAL ROADWAY SECTION

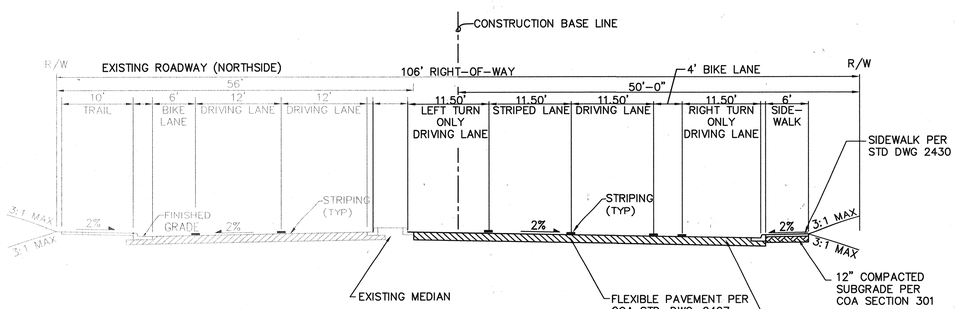
STA 69+70.98 TO STA 75+96.94

SCALE: 1"=10'



12' TEMPORARY ROAD SECTION

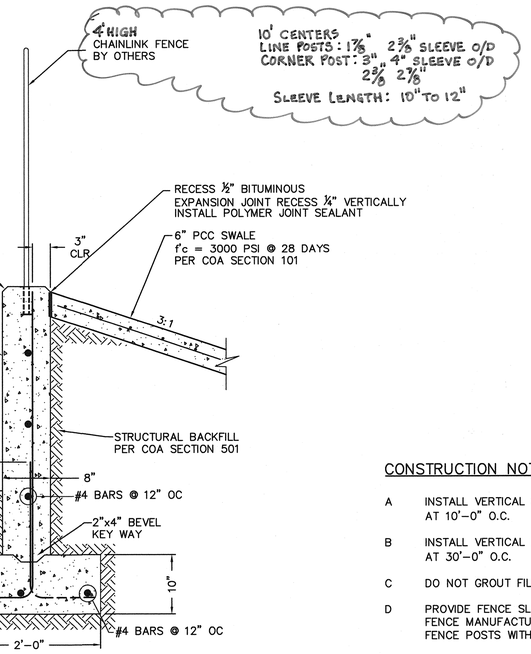
WESTSIDE BLVD. STATIONING
STA 71+66.86, 18.08' LT
STA 73+16.47, 10.23' RT
NTS



WESTSIDE BOULEVARD
PROPOSED TYPICAL ROADWAY SECTION
AT WESTSIDE BLVD. & GOLF COURSE RD.

STA 75+96.94 TO STA 78+80.48

SCALE: 1"=10'



RETAINING WALL/CONCRETE SWALE DETAIL

NTS

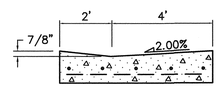
CONSTRUCTION NOTES:

A INSTALL VERTICAL CONSTRUCTION JOINTS AT 10'-0" O.C.

B INSTALL VERTICAL EXPANSION JOINTS AT 30'-0" O.C.

C DO NOT GROUT FILL SNAP TIE HOLES.

D PROVIDE FENCE SLEEVE POST PER CHAIN LINK FENCE MANUFACTURER REQUIREMENTS. ALIGN FENCE POSTS WITH VERTICAL WALL JOINTS.



CONCRETE VALLEY GUTTER DETAIL

NTS (MODIFIED COA STD DWG 2420)

RECORD DRAWING
DATE 8/20/08

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA #0660003900

AS-BUILT INFORMATION
CONTRACTOR: UNIVERSAL CONSTRUCTORS — DATE 4/08
WORK STAKED BY: WCI — DATE 8/08
INSPECTOR'S ACCEPTANCE BY: WCI — DATE 8/08
FIELD VERIFICATION BY: WCI — DATE 8/08
DRAWINGS CORRECTED BY: WCI — DATE 8/08
MICRO-FILM INFORMATION — DATE
RECORDED BY
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
A= -00°14'43"
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/1/08
2	WCI	4/15/08
3	WCI	4/21/08
4	WCI	4/24/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL
MARIO G. MARTINEZ (15340) LICENSED PROFESSIONAL ENGINEER 03/20/08

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY MJI JAN 2008
DRAWN BY STAFF JAN 2008
CHECKED BY MJI JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
TYPICAL SECTION & MISCELLANEOUS DETAILS

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	8	22

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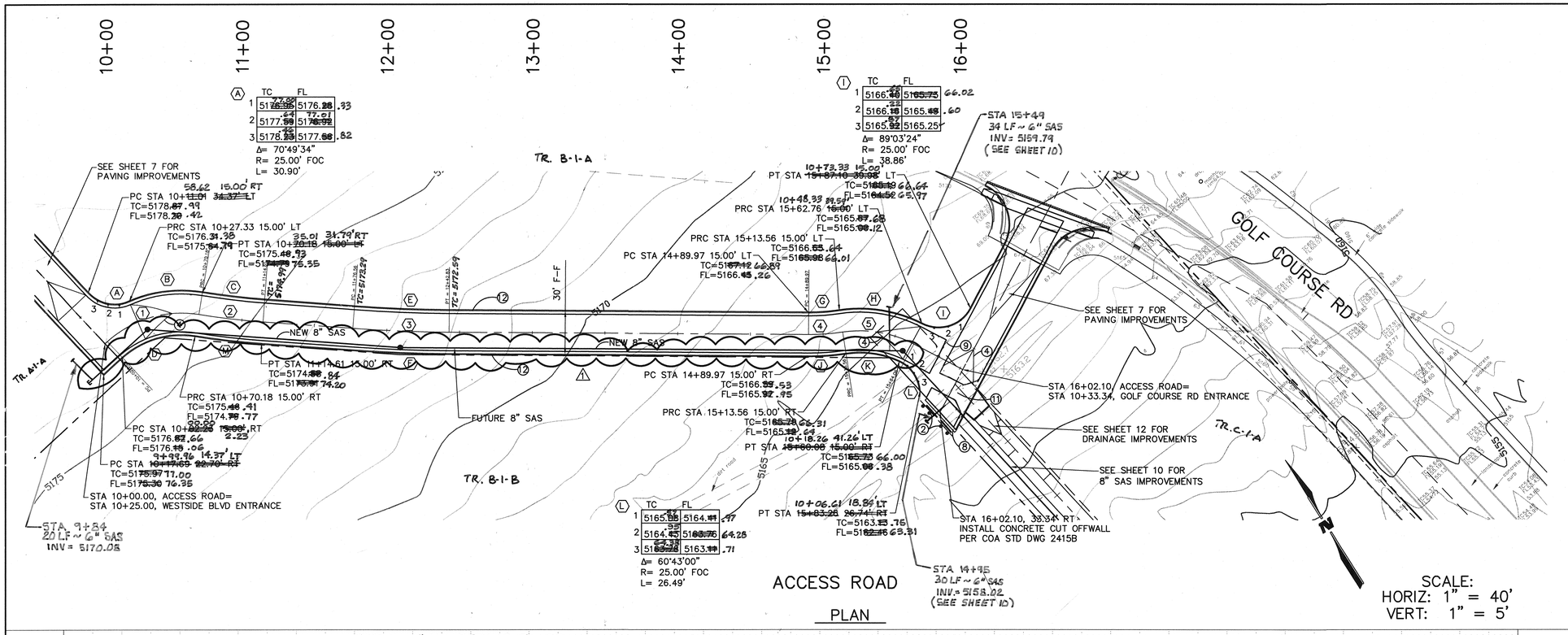
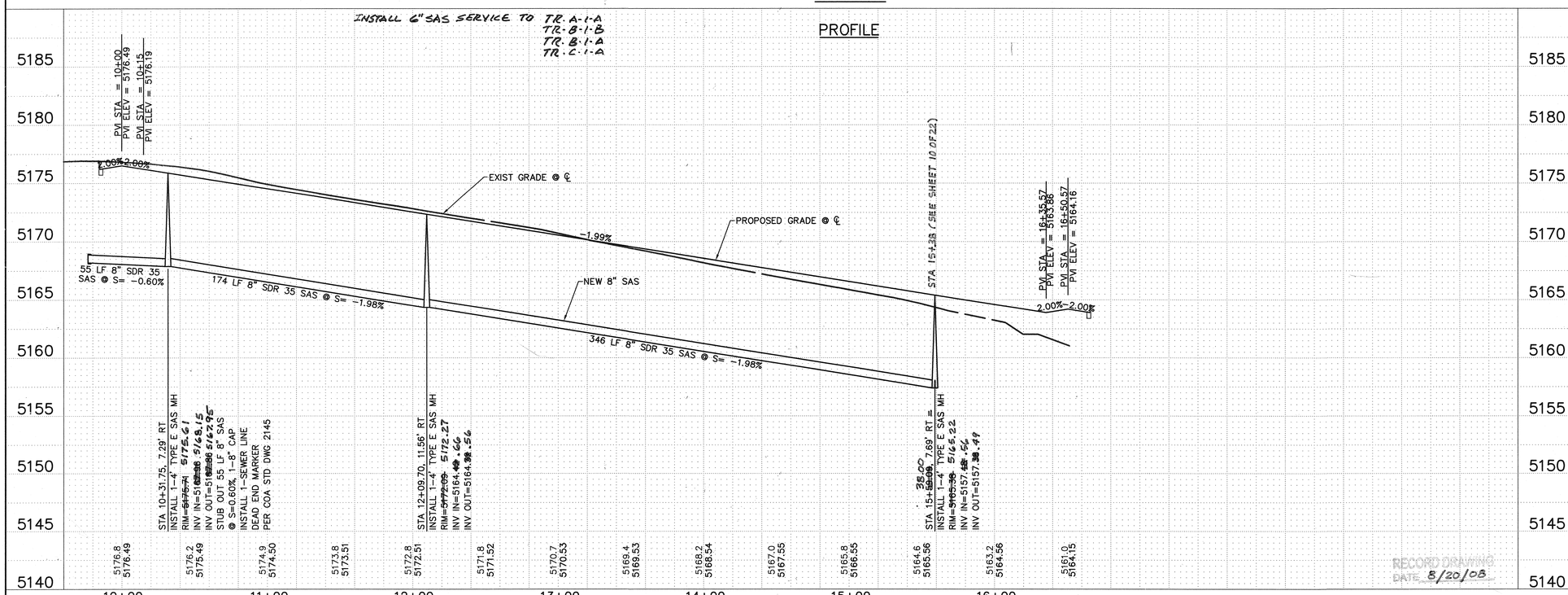


ACCESS ROAD

PLAN



PROFILE

RECORD DRAWING DATE 8/20/08

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WCEA #0660003900

WILSON & COMPANY

KEY NOTES

1. DETECTABLE WARNING SURFACE SEE SHEET 15
2. TYPE III BARRICADES PER COA STD DWG 2803
3. 50' CROWN TRANSITION PER COA STD DWG 2401
4. 25' CROWN TRANSITION PER COA STD DWG 2401
5. 6' SIDEWALK PER COA STD DWG 2430
6. WHEELCHAIR RAMP CASE I PER COA STD DWG 2441
7. WHEELCHAIR RAMP CASE II PER COA STD DWG 2441
8. CONCRETE CUT-OFF WALL PER COA STD DWG 2415B
9. 6' CONCRETE VALLEY GUTTER PER COA STD DWG 2420
10. WHEELCHAIR RAMP PER COA STD DWG 2426
11. 12' CONCRETE VALLEY GUTTER PER COA STD DWG 2422
12. STANDARD CURB & GUTTER PER COA STD DWG 2415A

CURVE DATA-CL

(1) CURVE DATA: Δ=51°54'32" R= 75.00' L= 67.95' T= 36.51'

(2) CURVE DATA: Δ=05°05'30" R= 500.00' L= 44.43' T= 22.23'

(3) CURVE DATA: Δ=03°48'02" R= 999.00' L= 66.27' T= 33.15'

(4) CURVE DATA: Δ=36°41'25" R= 78.85' L= 50.49' T= 26.15'

(5) CURVE DATA: Δ=09°04'21" R= 149.00' L= 23.59' T= 11.82'

CURVE DATA-RETURNS

(B) CURVE DATA: Δ=32°44'06" R= 90.00' L= 51.42' T= 26.43'

(C) CURVE DATA: Δ=05°05'30" R= 485.00' L= 43.10' T= 21.56'

(D) CURVE DATA: Δ=51°54'32" R= 60.00' L= 54.36' T= 29.20'

(E) CURVE DATA: Δ=03°48'03" R= 984.00' L= 65.27' T= 32.65'

(F) CURVE DATA: Δ=03°48'02" R= 1014.00' L= 67.26' T= 33.64'

(G) CURVE DATA: Δ=09°04'21" R= 134.00' L= 21.22' T= 10.63'

(H) CURVE DATA: Δ=35°44'49" R= 93.85' L= 58.55' T= 30.26'

(J) CURVE DATA: Δ=09°04'21" R= 164.00' L= 25.97' T= 13.01'

(K) CURVE DATA: Δ=36°41'25" R= 63.85' L= 40.89' T= 21.17'

(L) CURVE DATA: Δ=60°43'00" R= 25.00' L= 26.49' T= 14.64'

(M) CURVE DATA: Δ=05°05'30" R= 515.00' L= 45.77' T= 22.90'

NMUI 5/22/08 DATE

AS-BUILT INFORMATION

CONTRACTOR: UNIVERSAL CONSTRUCTORS & ENGINEERS, INC. DATE 4/08

WORK PERFORMED BY: W.C.I. DATE 8/08

INSPECTOR'S ACCEPTANCE BY: W.C.I. DATE 8/08

FIELD VERIFICATION BY: W.C.I. DATE 8/08

DRAWINGS CORRECTED BY: W.C.I. DATE 8/08

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "BLACK 2 1977"

GEOGRAPHIC POSITION (NAD 1927)

N.M. STATE PLANE COORDINATES (CENTRAL ZONE)

X= 372,920.43 Y= 1,530,241.52

GROUND-TO-GRID FACTOR= 0.9996692

Δ= -00°14'43"

SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	WCI	4/1/08
2	WCI	4/15/08
3	WCI	4/21/08
4	WCI	4/28/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL

MARIO G. MARTINEZ-INFANTE NEW MEXICO LICENSED PROFESSIONAL ENGINEER 15340 5/14/08

NO.	DATE	REMARKS	BY
1	5/08	CONSTRUCT 8" SAS MAIN LINE	WCEA

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY MJI JAN 2008

DRAWN BY STAFF JAN 2008

CHECKED BY MJI JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE

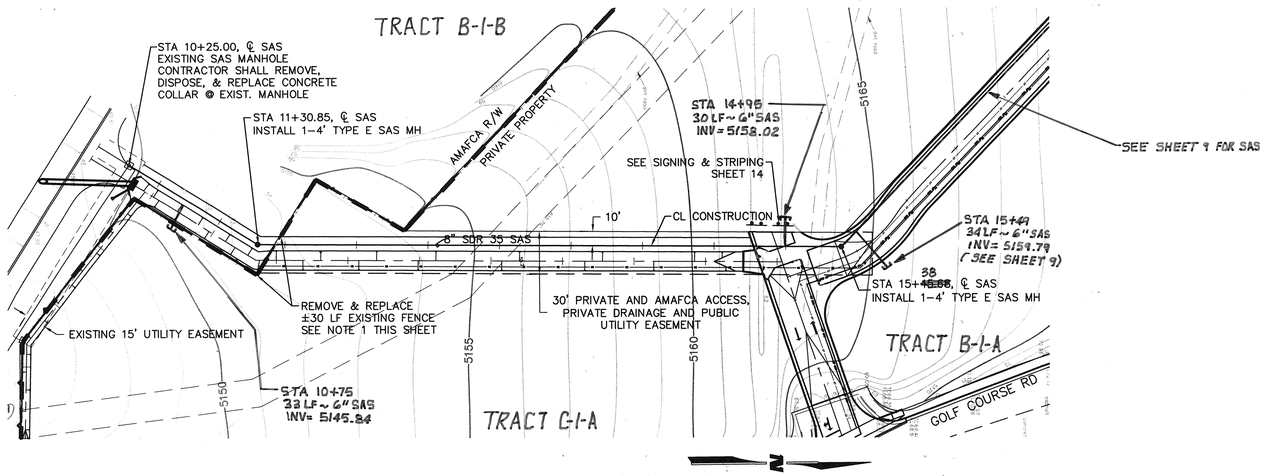
ACCESS ROAD PAVING
PLAN & PROFILE

Design Review Committee: APPROVED MAY 27 2008 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED MAY 27 2008 CITY ENGINEER

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

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	9	22

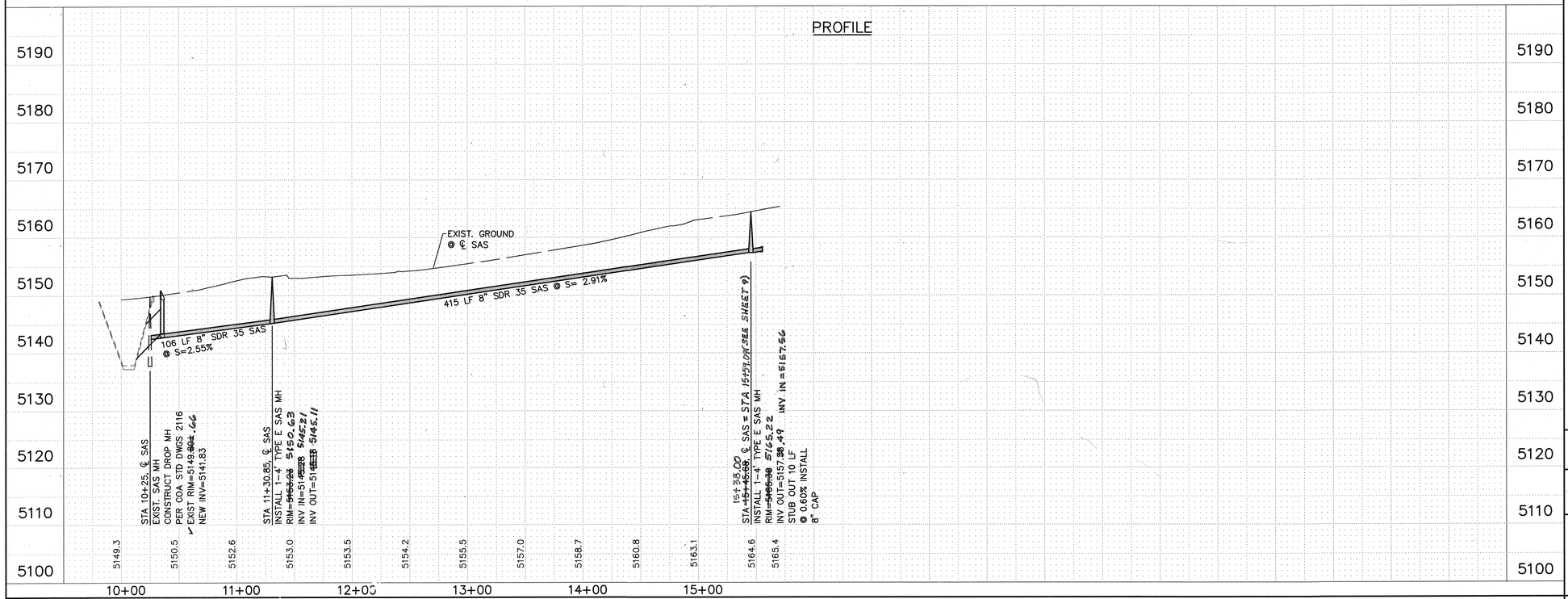


8" SANITARY SEWER

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'

PLAN

PROFILE



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LEGEND

- EXISTING INTERMEDIATE CONTOUR
- 5365 EXISTING INDEX CONTOUR
- EXISTING PROPERTY LINE
- PROPOSED SAS
- AMAFCA RIGHT-OF-WAY

NOTES:

1. REMOVAL & PLACEMENT OF NEW FENCING SHALL BE "BARBLESS" BARBED WIRE WITH TWISTED STRANDS AT THE DIRECTION OF AMAFCA. CONTACT KURT WAGENER @ 505-884-2215.

RECORD DRAWING
DATE 8/20/08

NMUI 4/16/08 DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE
8" SANITARY SEWER
PLAN & PROFILE

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE

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

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	10	22

WCEA #0660003900

WILSON & COMPANY

AS-BUILT INFORMATION

CONTRACTOR	UNIVERSAL CONSTRUCTORS / PYTHON CONSTRUCTION	DATE 4/08
WORK RECORDED BY	WCI	DATE 8/08
INSPECTOR'S ACCEPTANCE BY	WCI	DATE 8/08
FIELD VERIFICATION BY	WCI	DATE 8/08
DRAWINGS CORRECTED BY	WCI	DATE 8/08

BENCH MARKS

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	WCI	4/7/08
2	WCI	4/15/08
3	WCI	4/21/08
4	WCI	4/28/08
5	WCI	5/29/08
6	WCI	6/12/08
7	WCI	6/19/08

ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
Δ= -00°14'43"
SLD 1929 ELEVATION= 5213.926

ENGINEER'S SEAL

MARIO D. MARTINEZ-INFANTE (15340) LICENSED PROFESSIONAL ENGINEER 04/29/08

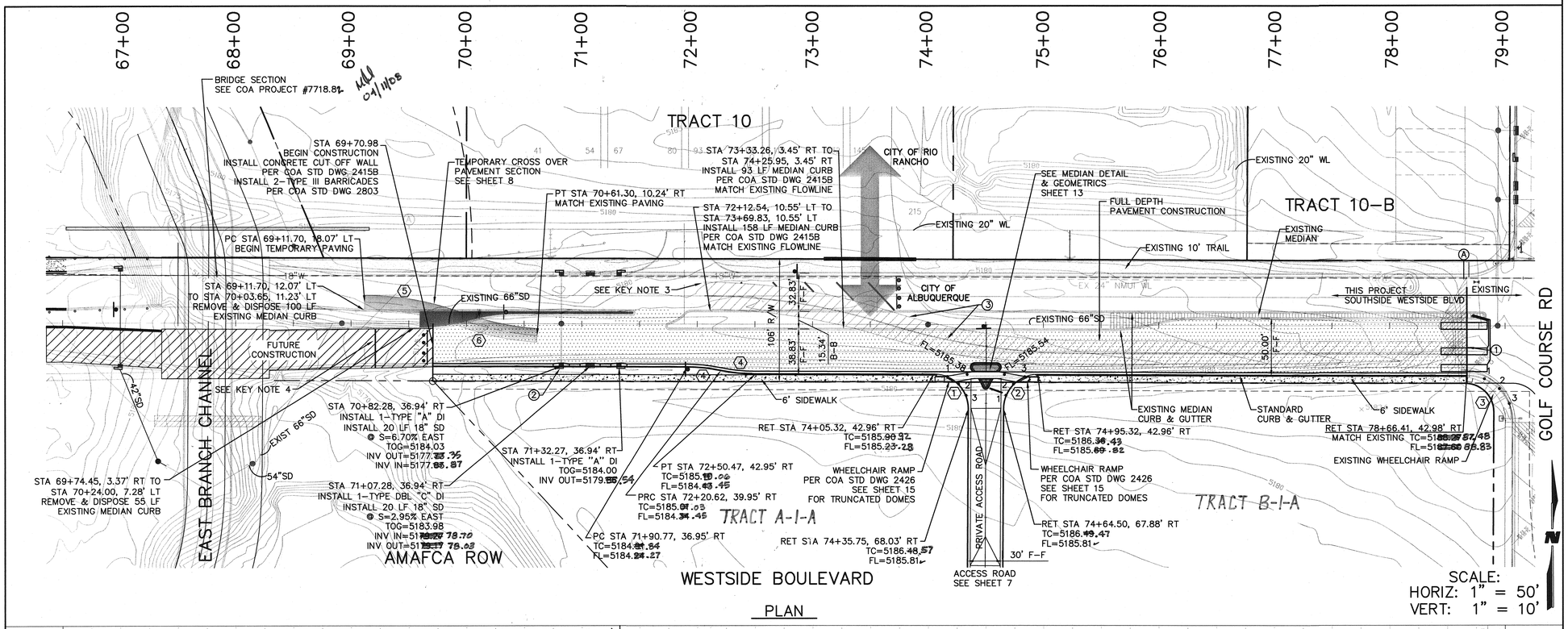
NO.	DATE	REMARKS	BY

REVISIONS

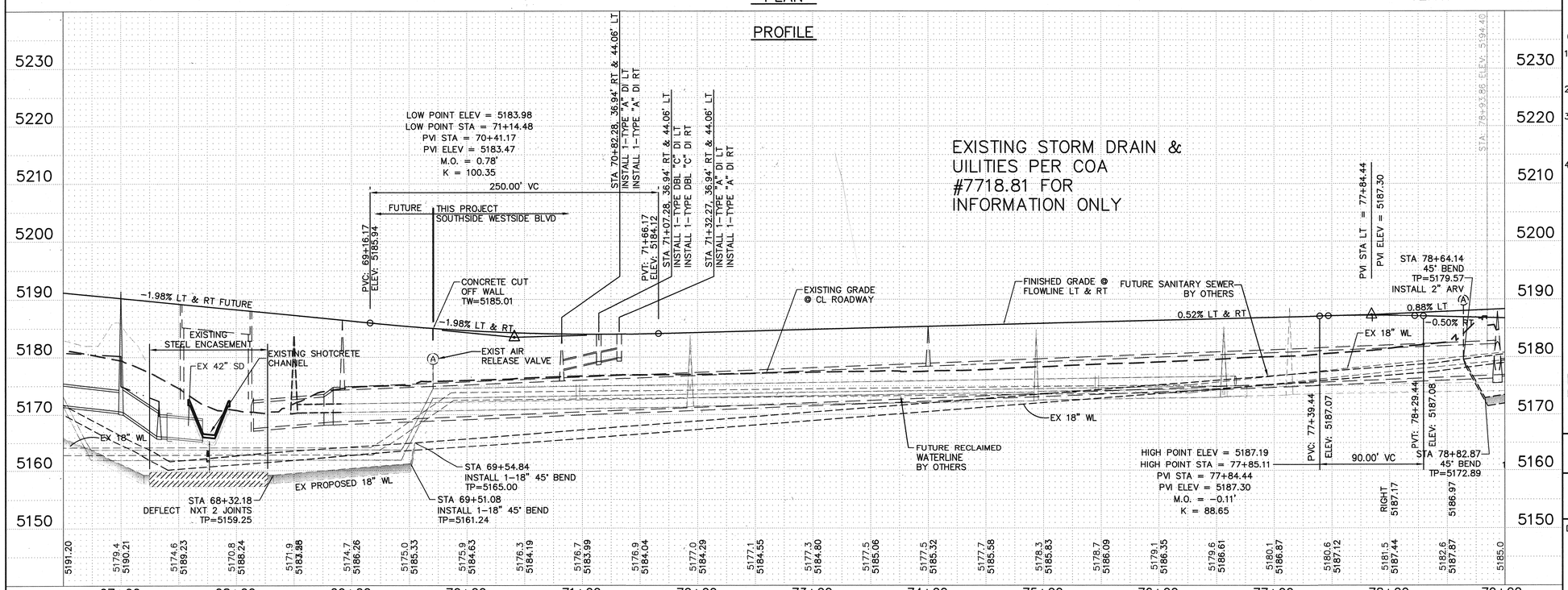
WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

SCANNED BY PLANNING



PLAN



LEGEND (EXISTING)

- EXISTING LOT LINE
- EXISTING CURB & GUTTER
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- 5365 EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING ROW

LEGEND (PROPOSED)

- PROPOSED ROADWAY CENTERLINE
- PROPOSED CURB & GUTTER
- PROPOSED 10'-0" TRAIL
- PROPOSED COLORED, STAMPED PCC
- PROPOSED 6'-0" PCC SIDEWALK
- PROPOSED WHEEL CHAIR RAMPS @ RETURN
- RESEEDING LIMITS
- IC INNER CONVERT
- FUTURE CONSTRUCTION
- FULL DEPTH PAVEMENT CONSTRUCTION

CURVE DATA

①

	TC	FL
1	5186.12	5185.97.46
2	–	5185.[illegible].55
3	5186.[illegible]	5185.[illegible].73

Δ= 90°10'15"
R= 30.00' FOC
L= 47.21'

②

	TC	FL
1	5186.47	5185.[illegible].81
2	–	5185.[illegible].50
3	5186.[illegible]	5185.[illegible].77

Δ= 89°49'46"
R= 30.00' FOC
L= 47.03'

③

	TC	FL
1	5187.03	5187.05 86.43
2	–	5186.[illegible].02
3	55.71 5186.62	5185.[illegible].69

Δ= 89°59'00"
R= 40.00' FOC
L= 62.82'

④ Δ= 11°28'42"
R= 150.00' FOC
L= 30.05'
T= 15.08'

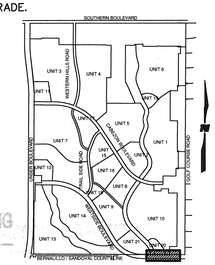
TEMPORARY PAVING CL CURVE DATA

⑤ Δ= 19°35'32"
R= 249.67'
L= 85.38'
T= 43.11'

⑥ Δ= 15°27'22"
R= 250.33'
L= 67.53'
T= 33.97'

KEY NOTES

1. SAWCUT NEAT LINE TO FULL DEPTH, REMOVE & DISPOSE EXISTING ASPHALT PAVEMENT. APPLY TACK COAT TO JOINT PRIOR TO ABUTTING NEW PAVEMENT.
2. REMOVE EXISTING RCP PLUG FOR LATERAL STORM DRAIN EXTENSION.
3. EXISTING TEMPORARY PAVING TO BE REMOVED AND DISPOSED. ALL TEMPORARY STRIPING REMOVAL SHALL BE COINCIDENTAL TO REMOVAL. REPLACE MEDIAN CURB & GUTTER TO CLOSE MEDIAN.
4. STA 69+20.98, 4.10' RT INSTALL 33 LF CONCRETE BARRIER. A 6" REFLECTORIZED STRIPE SHALL BE PLACE ON THE EAST FACE OF BARRIER. AREA WEST OF CONCRETE WALL BARRIER IS ROUGH GRADED TO SUBGRADE.



INDEX MAP

RECORD DRAWING
DATE 8/20/08

NO.	DATE	REMARKS	BY
5/07		CHANGE ORDER SO HALF WESTSIDE BLVD	WC

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY MJI JAN 2008
DRAWN BY STAFF JAN 2008
CHECKED BY MJI JAN 2008

AS-BUILT INFORMATION
CONTRACTOR UNIVERSAL CONSTRUCTORS & PYTHON CONSTRUCTION DATE 4/08
WORK STAKED BY WCI DATE 8/08
INSPECTOR'S ACCEPTANCE BY WCI DATE 8/08
FIELD VERIFICATION BY WCI DATE 8/08
DRAWINGS CORRECTED BY WCI DATE 8/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
USC&GS BRASS TABLET STAMPED "TRANS, 1969", LOCATED 6 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE IN THE RIGHT-OF-WAY OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE
ELEVATION = 5118.370 FT.
NGVD 29 U.S. FEET

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/7/08
2	WCI	4/18/08
3	WCI	4/21/08
4	WCI	4/28/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL
MARIO G. MARTINEZ
NM LICENSED PROFESSIONAL ENGINEER
15349
2/20/08

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
WESTSIDE BLVD. PLAN & PROFILE
STA 69+70.98 TO STA 79+06.91

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 7718.83 | Zone Map No. A-12 | Sheet 11 Of 22

WILSON & COMPANY

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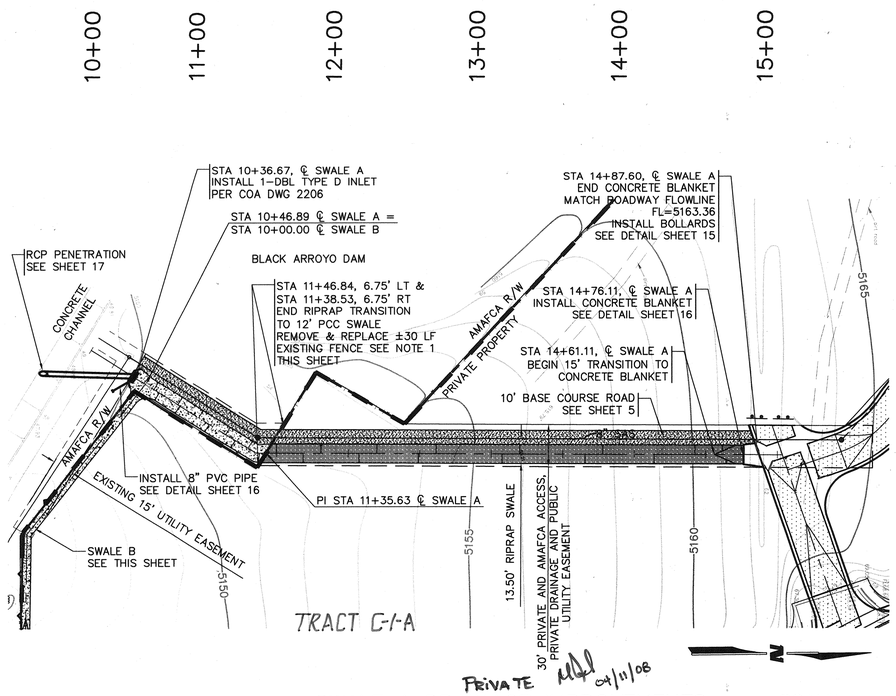
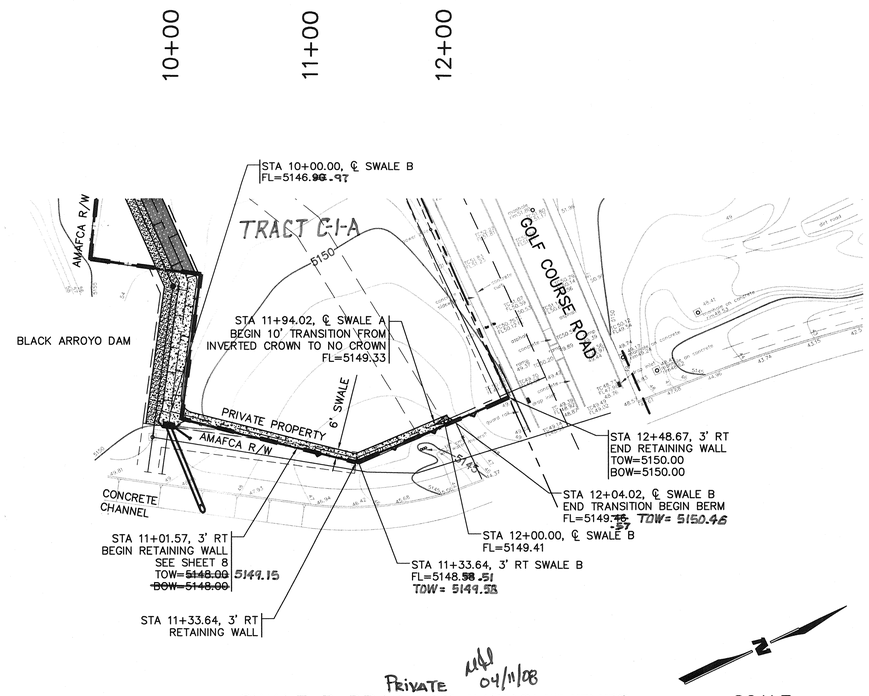
WCEA #0660003900



Private MJI 04/11/08

SWALE A DRAINAGE IMPROVEMENTS

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'



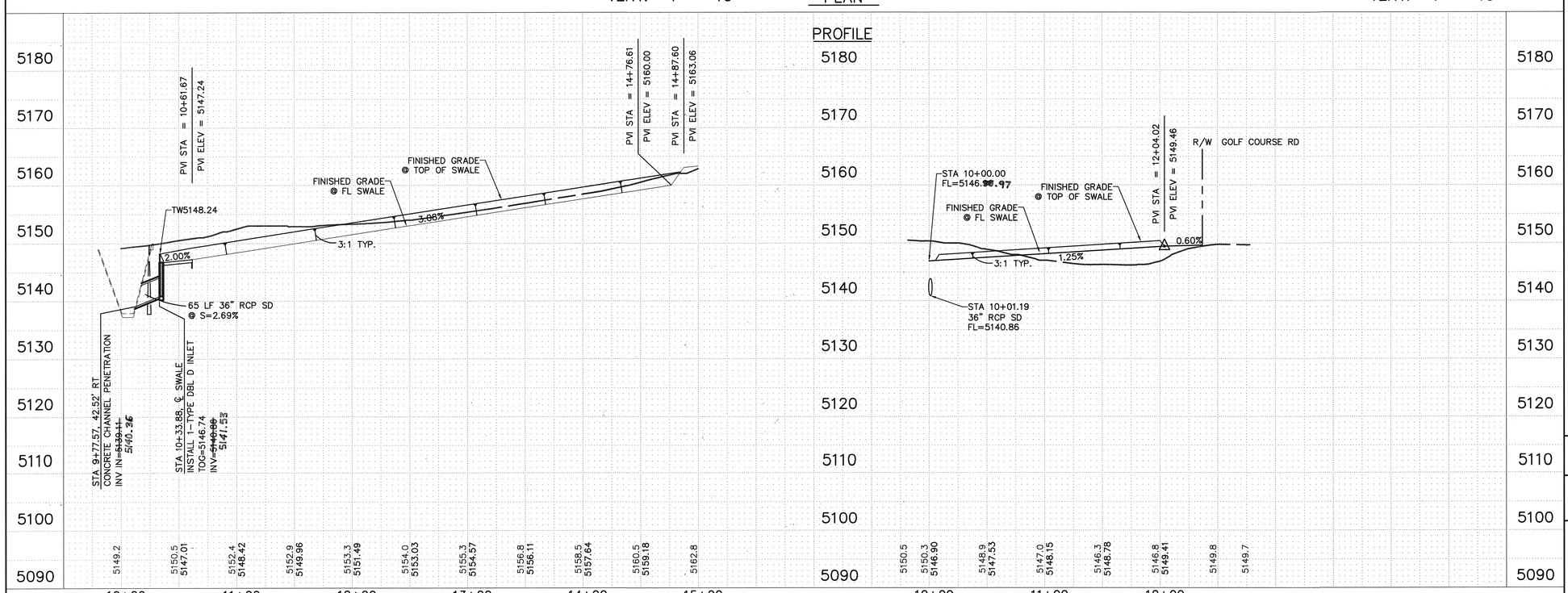
Private MJI 04/11/08

SWALE B DRAINAGE IMPROVEMENTS

SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'

PLAN

PROFILE



T:\Projects\0660003900\MX\Sheets\DRC PLAN SET\66039PP01-CHNL.dwg 8/15/2007 4:47:46 AM MDT

LEGEND

- EXISTING INTERMEDIATE CONTOUR
- 5365 EXISTING INDEX CONTOUR
- EXISTING PROPERTY LINE
- PROPOSED SAS

NOTES:

1. REMOVAL & PLACEMENT OF NEW FENCING SHALL BE "BARBLESS" BARBED WIRE WITH TWISTED STRANDS AT THE DIRECTION OF AMAFCA. CONTACT KURT WAGENER @ 505-884-2215.

AS-BUILT INFORMATION

CONTRACTOR	UNIVERSAL CONSTRUCTORS PINON CONSTRUCTION	
WORK STAKED BY	WCI	DATE 4/08
INSPECTOR'S ACCEPTANCE BY	WCI	DATE 8/08
FIELD VERIFICATION BY	WCI	DATE 8/08
DRAWINGS CORRECTED BY	WCI	DATE 8/08

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "BLACK 2 1977"
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N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
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A= -00°14'43"
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SURVEY INFORMATION

FIELD NOTES

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2	WCI	4/15/08
3	WCI	4/21/08
4	WCI	4/29/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL

MARIO G. MARTELLANI NEW MEXICO 15340 LICENSED PROFESSIONAL ENGINEER 03/24/08

NO.	DATE	REMARKS
		REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

RECORD DRAWING
DATE 8/20/08

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
DRAINAGE IMPROVEMENTS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	12	22

WCEA #0660003900

WILSON & COMPANY

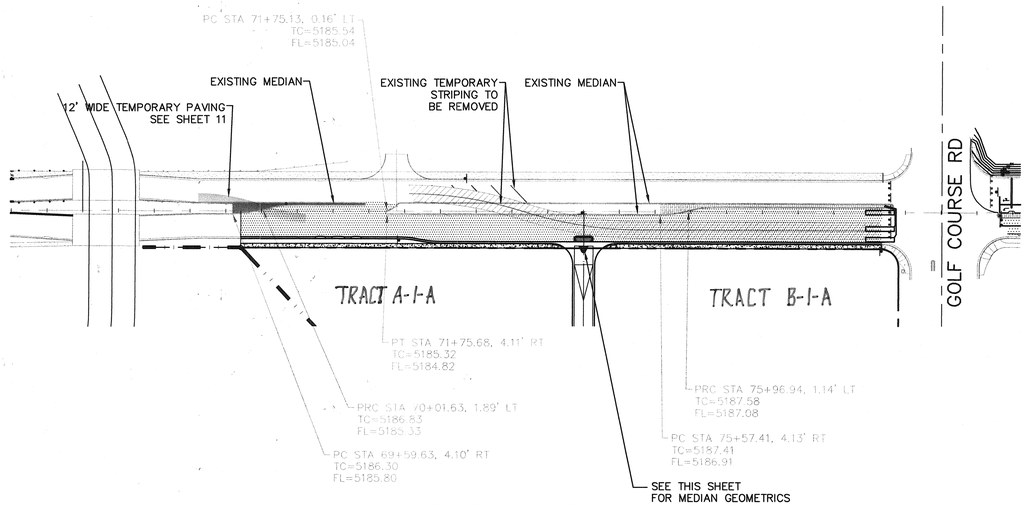
SCANNED BY PLANNING

NOTE:
ALL CURVE DATA, STATIONS & OFFSETS REFERENCE FACE OF CURB

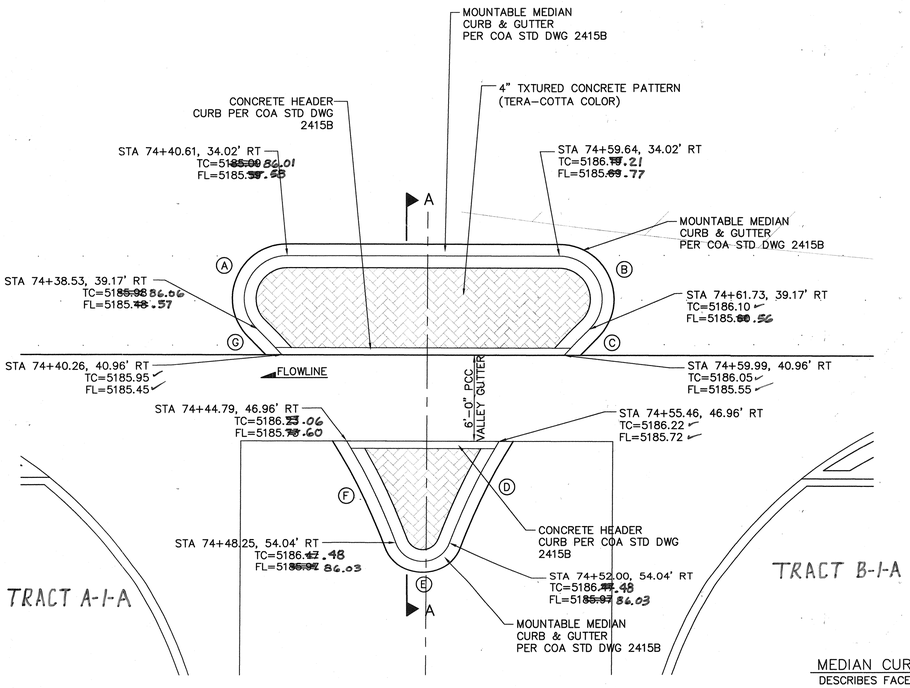
LEGEND

PROPOSED CURB & GUTTER

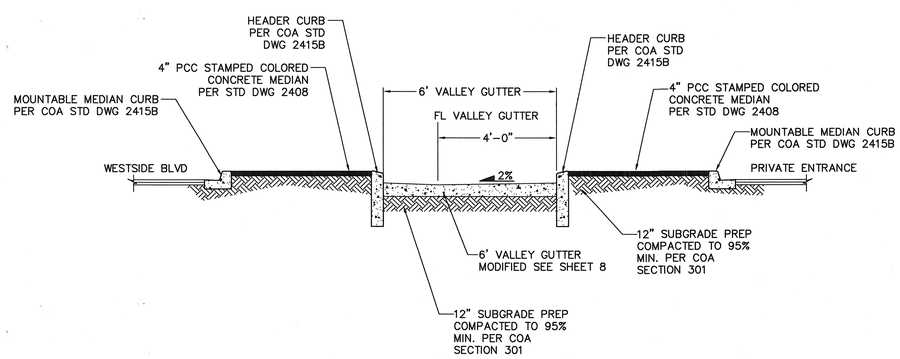
PROPOSED COLORED, STAMPED PCC



WESTSIDE BLVD MEDIAN



PRIVATE ENTRANCE MEDIAN
WESTSIDE BLVD. STATIONING



SECTION A-A

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

MEDIAN CURVE DATA
DESCRIBES FACE OF CURB

(A) Δ= 136°00'59"	(B) Δ= 136°01'25"	(C) Δ= 03°34'00"	(D) Δ= 11°18'17"	(E) Δ= 139°16'23"	(F) Δ= 11°18'17"	(G) Δ= 03°33'54"
R= 3.00'	R= 3.00'	R= 40.00'	R= 40.00'	R= 2.00'	R= 40.00'	R= 40.00'
L= 7.12'	L= 7.12'	L= 2.49'	L= 7.89'	L= 4.86'	L= 7.89'	L= 2.49'
T= 7.43'	T= 7.43'	T= 1.25'	T= 3.96'	T= 5.39'	T= 3.96'	T= 1.24'

RECORD DRAWING
8/20/08

WILSON & COMPANY
4900 LANG AVE N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA #0660003900

AS-BUILT INFORMATION
UNDERGROUND UTILITIES
CONTRACTOR: PYTHON CONSTRUCTION DATE 8/08
WORK STAKED BY: WCI DATE 8/08
INSPECTOR'S ACCEPTANCE BY: WCI DATE 8/08
FIELD VERIFICATION BY: WCI DATE 8/08
DRAWINGS CORRECTED BY: WCI DATE 8/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/16/08
2	WCI	4/16/08
3	WCI	4/21/08
4	WCI	4/29/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/09

ENGINEER'S SEAL
MARIO G. MARTEZ-INFANTE
NEW MEXICO PROFESSIONAL ENGINEER
(15340)
LICENSED PROFESSIONAL ENGINEER
06/19/08

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY MJI JAN 2008
DRAWN BY STAFF JAN 2008
CHECKED BY MJI JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
WESTSIDE BLVD.
MEDIAN GEOMETRICS

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE
Last Design Update: Mo./Day/Yr. Mo./Day/Yr.

City Project No. 7718.83 | Zone Map No. A-12 | Sheet 13 Of 22

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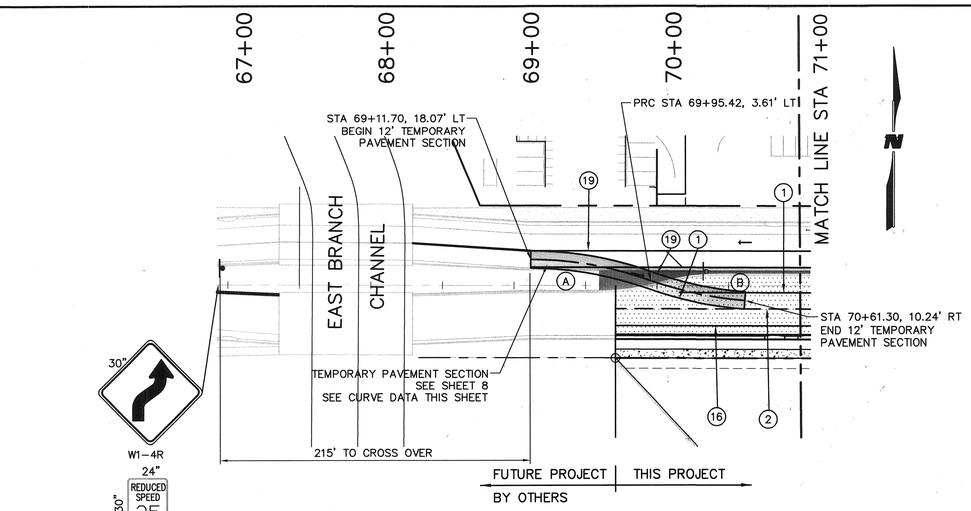
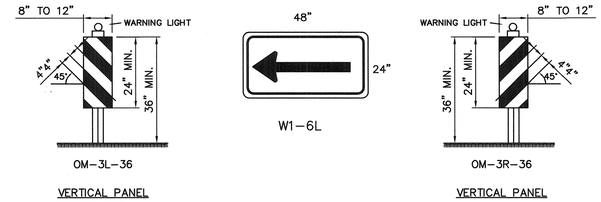


WESTSIDE BOULEVARD



DIRECTIONAL SIGN

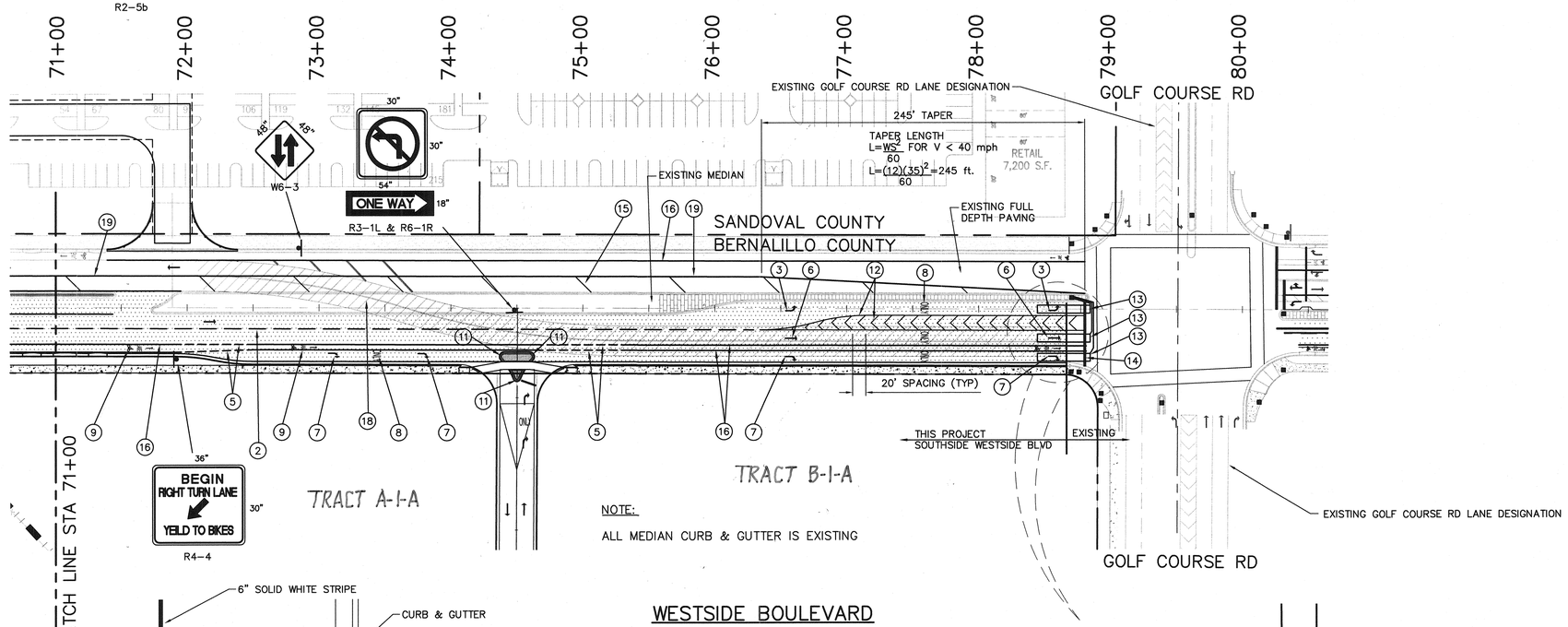
NTS

GENERAL NOTES:

1. PERMANENT SIGNING & STRIPING SHALL CONFORM TO THE MUTCD MILLENNIUM EDITION, 2000.
2. ALL TYPE III BARRICADES SHALL BE REMOVED.
3. ALL STRIPING ERADICATED SHALL BE ACCOMPLISHED WITH WATER BLASTING SURFACE PLAINING TO A MAXIMUM DEPTH OF 0.25 INCHES AND FOR A WIDTH EQUAL TO 2 TIMES THE WIDTH OF THE STRIPE OR MARKINGS.

LEGEND

- PROPOSED ROADWAY CENTERLINE
- PROPOSED CURB & GUTTER
- PROPOSED ROW
- PROPOSED CABEZON BOUNDARY
- PROPOSED 10'-0" TRAIL
- PROPOSED COLORED, STAMPED PCC
- PROPOSED 6'-0" SIDEWALK
- PROPOSED WHEEL CHAIR RAMPS @ RETURN
- PROPOSED STREET SIGN
- EXISTING PULL BOX



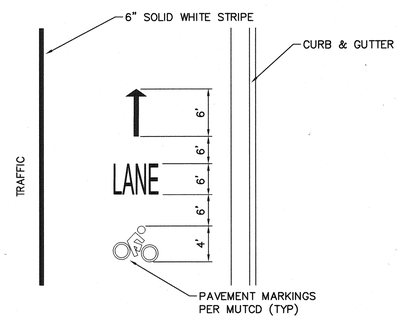
NOTE:

ALL MEDIAN CURB & GUTTER IS EXISTING

WESTSIDE BOULEVARD

KEYED NOTES:

1. 4" SOLID WHITE PREFORMED THERMO PLASTIC
2. 4" BROKEN WHITE PREFORMED THERMO PLASTIC (10' STRIPE, 30" GAP)
3. 8" PREFORMED THERMO PLASTIC LEFT ARROW
4. 4" SOLID DOUBLE YELLOW PREFORMED THERMO PLASTIC
5. 6" DASHED, 3' STRIPE 7' GAP
6. 8" PREFORMED THERMO PLASTIC THRU ARROW
7. 8" PREFORMED THERMO PLASTIC RIGHT ARROW
8. 8" PREFORMED THERMO PLASTIC WORD "ONLY"
9. BIKE LANE PAVEMENT MARKINGS SEE DETAILS THIS SHEET
10. SOLID WHITE PREFORMED THERMO PLASTIC ARROW
11. MEDIAN NOSE PAINTED SOLID YELLOW
12. 8" SOLID WHITE PREFORMED THERMO PLASTIC STRIPE
13. 40'x6' TRAFFIC SIGNAL LOOP DETECTION PER COA STD DWG 2552
14. 12" SOLID WHITE PREFORMED THERMO PLASTIC STRIPE
15. 12" SOLID YELLOW PREFORMED THERMO PLASTIC STRIPE 45° @ 50' SPACING
16. 6" SOLID WHITE PREFORMED THERMO PLASTIC
17. 4" SOLID YELLOW PREFORMED THERMO PLASTIC @ 20' SPACING
18. REMOVE & DISPOSE EXISTING TEMPORARY ASPHALT PAVING & STRIPING
19. 4" SOLID YELLOW PREFORMED THERMO PLASTIC

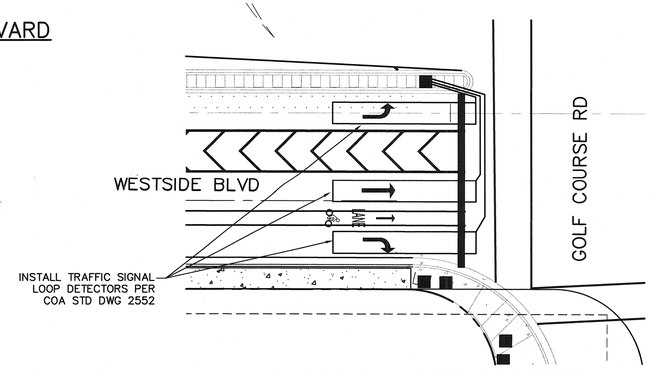


TYPICAL BIKE LANE MARKINGS

NTS

TEMPORARY PAVEMENT SECTION – CL CURVE DATA

(A)	(B)
Δ = 19°35'32"	Δ = 15°27'22"
R = 249.67'	R = 250.33'
T = 43.11'	T = 33.97'
L = 85.38'	L = 67.53'



LOOP DETECTOR LOCATION

GRAPHIC SCALE

50 0 50 50 100 200

(IN FEET)
1 inch = 50 ft.

RECORD DRAWING
DATE 8/20/08

WCEA #0660003900

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
PERMANENT SIGNING & STRIPING
STA 69+70.98 TO STA 79+06.91

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 16 2008 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	14	22

AS-BUILT INFORMATION
CONTRACTOR UNIVERSAL CONSTRUCTORS
WORK STAKED BY PETRON CONSTRUCTION DATE 4/8
WORK STAKING ACCEPTANCE BY WCI DATE 8/08
FIELD VERIFICATION BY WCI DATE 8/08
DRAWINGS CORRECTED BY WCI DATE 8/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
Δ= -00°14'43"
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/7/08
2	WCI	4/15/08
3	WCI	4/21/08
4	WCI	4/28/08
5	WCI	5/28/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL
MARIO C. MAREZ-ALFANTA
NEW MEXICO
15340
LICENSED PROFESSIONAL ENGINEER
7/10/08

NO.	DATE	REMARKS	BY

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

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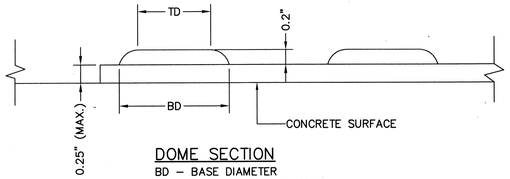
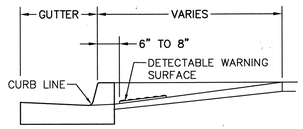
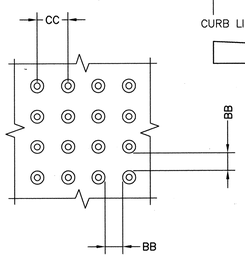


DOME SECTION

BD – BASE DIAMETER
0.9" MIN. TO 1.4" MAX
TD – TOP DIAMETER
50% OF BD MIN TO 65% OF BO MAX



LOCATION



DOME SPACING

CC – CENTER TO CENTER SPACING
1.6" MIN. TO 2.4" MAX
BB – BASE TO BASE SPACING
0.55" MIN

DOME SPACING

DETECTABLE WARNING SURFACES SHALL EXTEND 24" MIN. IN THE DIRECTION OF TRAVEL AND FULL WIDTH OF THE CURB RAMP, LANDING, OR TRANSITION. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE CROSS WALK TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

DEFINITIONS:

DETECTABLE WARNINGS – A SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES OR OTHER ELEMENTS TO WARN OF HAZARDS ON A CIRCULATION PATH TO AID PERSONS WITH VISUAL IMPAIRMENTS.

DESIGN PER ADA GUIDELINES

SUBMIT TO CITY OF ALBUQUERQUE CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION

CURB LINE – A LINE AT THE FACE OF TH CURB THAT MARKS THE TRANSITION BETWEEN THE SIDEWALK AND THE GUTTER OR ROADWAY

LOCATION:

1. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE A CURB RAMP OR LANDING CONNECTS TO A CROSSWALK AND OR PEDESTRIAN ROUTE CROSSING A ROADWAY.

2. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" (150 MM) MINIMUM AND 8" (205 MM) MAXIMUM FROM THE CURB LINE.

3. MEDIAN AND REFUGEISLANDS SHALL HAVE DETECTABLE WARNINGS. DETECTABLE WARNINGS AT CUT THROUGH ISLAND SHALL BE SEPERATED BY A 24" (610 MM) MINIMUM LENGTH OF WALKWAY WITHOUT WARNINGS

EXCEPTION: DETECTABLE WARNINGS SHALL NOT BE REQUIRED ON CUT THROUGH ISLANDS WHERE THE CROSSINGS ARE CONTROLLED BY SIGNALS AND ARE TIMED FOR FULL CROSSING ON MEDIANS LESS THEN 7' WIDE

NOTES:

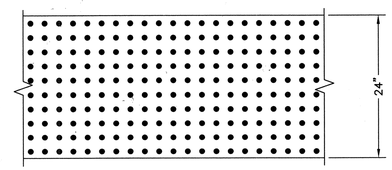
1. DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION OR RECONSTRUCTION OF STREETS, CURBS, OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS CONSTRUCTING FACILITIES FOR PUBLIC USE.

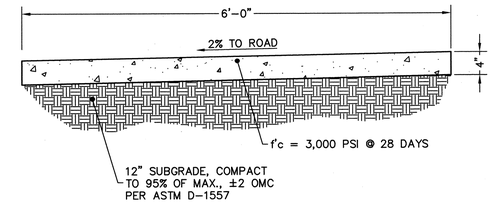
2. SIDEWALK RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

3. THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

4. ALL PRODUCTS USED FOR THE DETECTABLE WARNING SURFACES SHALL BE ON THE DEPARTMENT'S APPROVED PRODUCT LIST.

5. PRODUCTS SHALL BE CAST-IN-TACT AND RED IN COLOR.





TYPICAL SIDEWALK DETAIL

SCALE: 1"=1'-0"

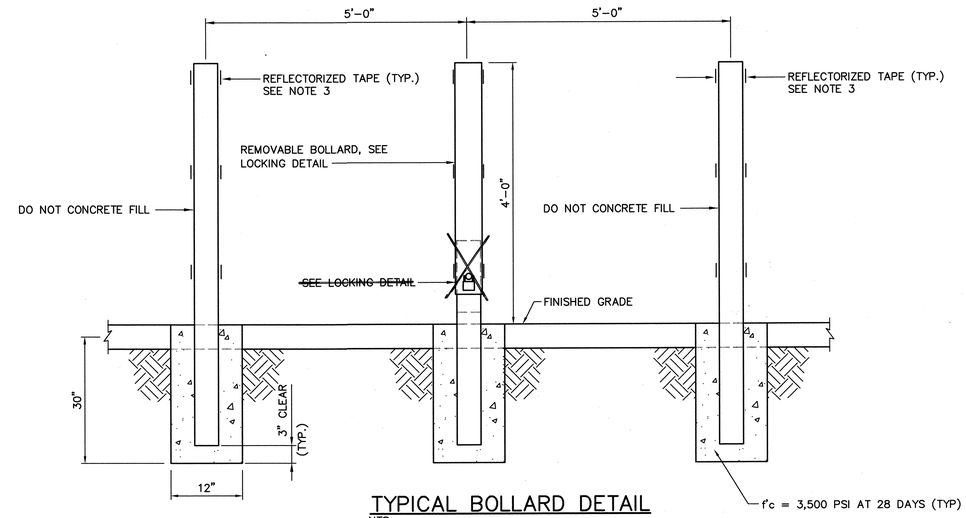
CONSTRUCTION NOTES:

1 INSTALL CONTRACTION JOINTS @ 5'-0" O.C.

2 INSTALL 1/2" BITUMINOUS EXPANSION JOINT @ 30'-0" O.C.

3 SURFACE TEXTURE OF SIDEWALK SURFACE SHALL BE OBTAINED BY LIGHT BROOMING.

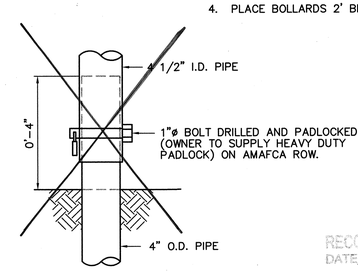
4 INSTALL 1/2" BITUMINOUS EXPANSION JOINT BETWEEN 4" PCC SIDEWALK AND ALL ADJOINING HARD SURFACES.



TYPICAL BOLLARD DETAIL

NTS

NOTE:
1. IF OPENING IS LESS THAN 12 FEET, A SINGLE REMOVABLE BOLLARD MAY BE USED.
2. CLEAN AND PAINT ALL BOLLARDS WITH 1 COAT PRIMER AND 2 COATS SAFETY YELLOW.
3. 2" WIDE REFLECTIVE TAPE, AS APPROVED BY ENGINEER, LOCATE AROUND AS SHOWN.
4. PLACE BOLLARDS 2' BEHIND FACE OF CURB.



LOCKING DETAIL

NTS

NEW CONSTRUCTION – GENERAL NOTES:

1.1 THESE DRAWINGS PROVIDE GUIDANCE FOR COMPLIANCE WITH THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA) AND STATE CODE. THESE STANDARDS SHALL APPLY TO ALL NEW AND ALTERED SIDEWALKS.

2.1 ANY DESIGN DEVIATION FROM THESE STANDARDS SHALL BE APPROVED BY THE NMDOT ADA COMPLIANCE COMMITTEE.

3.1 SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT, SIDEWALK AND CURB RAMP SURFACES SHALL PROVIDE CONSISTENT SLOPES WITHIN EACH SECTION.

4.1 ALL BROOM FINISHES SHALL BE PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.

5.1 A VERTICAL CHANGE OF ¼ INCH (9mm) OR LESS IS ALLOWED. IF BETWEEN ¼ INCH AND ½ INCH (6mm AND 13mm), THEN IT NEEDS TO BE BEVELED 2:1. CHANGES GREATER THAN ½ INCH SHALL BE RAMPED.

6.1 OPENING OR CRACKS IN SIDEWALK SURFACES SHALL NOT EXCEED ½ INCH (13)mm. ELONGATED OPENING SHOULD BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR OR DIAGONAL TO THE DOMINANT DIRECTION OF TRAVEL.

SIDEWALKS

7.1 SIDEWALKS, CURB AND GUTTER CONSTRUCTION SHALL BE N ACCORDANCE WITH SERIAL BSCG-001. (SWCG-001).

8.1 THE LEAST POSSIBLE SLOPES SHALL BE USED FOR SIDEWALKS, SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 5% (20:1). AT LOCATIONS WHERE THE RIGHT-OF-WAY IS RESTRICTIVE, THE SIDEWALK RUNNING SLOPE MAY FOLLOW THE ROAD PROFILE.

9.1 SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% (50:1).

10.1 SIDEWALKS SHALL HAVE A MINIMUM WIDTH OF 60", EXCLUDING THE CURB. EXCEPTION: A 36" WIDE SIDEWALK MAY BE USED WHERE THE RIGHT-OF-WAY IS RESTRICTED, WHERE THE SIDEWALK IS LESS THAN 60" WIDE. A PASSING SPACE SHALL BE PROVIDED EVERY 20 LINEAR FEET, WHEREVER FEASIBLE. PASSING SPACES SHALL BE A MINIMUM OF 60"X60" WITH 45 DEGREE TRANSITION TAPERS, 5% (20:1) MAXIMUM RUNNING SLOPES, AND 2% (50:1) MAXIMUM CROSS SLOPES.

11.1 ANY SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, LIGHT POLES, ETC. IN THE SIDEWALK SHALL NOT REDUCE THE CLEAR WIDTH TO LESS THAN 32" FOR MORE THAT 24" LENGTH.

CURB RAMPS

12.1 THE LEAST POSSIBLE CURB RAMP SLOPE SHALL BE USED, FOR COMPLIANCE WITH NMDOT PEDESTRIAN ACCESS DETAILS, CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 6.7% (15:1), WHERE EXISTING TERRAIN IS STEEP. CURB RAMPS NEED NOT EXCEED 15 FEET IN LENGTH.

13.1 PROVIDE A FLUSH TRANSITION BETWEEN RAMPS, SIDEWALKS, GUTTER, AND EDGE OF PAVEMENT, FREE OF DRAINAGE LIP. ABRUPT GRADE CHANGES, DROP-OFFS., OR ANY SURFACE IRREGULARITIES. A 5% (20:1) OR FLATTER TRANSITION TAPER SHALL BE PROVIDED FROM THE STREET TO THE GUTTER FOR CURB RAMP LOCATION (THIS MAY REQUIRE SPECIAL TREATMENT OF THE EDGE OF O.G.F.C.) WHEN DIAGONAL (NOT IN LINE WITH CROSSWALKS) RAMPS ARE NECESSARY. A 2% (50:1) TRANSITION OR "LOWER LANDING" SHALL BE PROVIDED. THE GUTTER RUNNING SLOPE (FLOW LINE) SHALL NOT EXCEED 2% MEASURED ALONG THE BOTTOM OF THE RAMP.

14.1 CURB RAMPS SHALL BE LOCATED TO PROVIDE THE MOST DIRECT ROUTE OF TRAVEL ACROSS THE TRAFFIC LANES.

15.1 TWO DIRECTIONAL (IN LINE WITH TH CROSSWALKS) RAMPS PER CORNER ARE USED IN ORDER TO PROVIDE SHORT AND DIRECT CROSSINGS FOR THE USER.

16.1 SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STANDARDS, IN THE CURB RAMP INCLUDING SIDE FLARES AND LANDINGS.

17.1 IN ORDER TO BETTER ACCOMMODATE CONDITIONS IN THE FIELD, THE CONTRACTOR SHALL OBTAIN FINAL APPROVAL OF CURB RAMP LOCATION FROM THE PROJECT MANAGER AND THE DISTRICT TRAFFIC ENGINEER. WHEN NECESSITATED BY EXISTING PHYSICAL CONDITIONS, ALTERNATE CURB RAMPS MUST BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL BY THE DISTRICT TRAFFIC ENGINEER.

LANDINGS

18.1 LANDING SHALL BE A MINIMUM OF 60"X 60". SLOPES SHALL NOT EXCEED 2% (50:1) IN ALL DIRECTIONS.

CROSSWALKS

19.1 ACCESSIBLE PEDESTRIAN CROSSING SHALL BE WITHIN THE MARKED CROSSWALK.

DETECTABLE WARNINGS

20.1 DETECTABLE WARNINGS ARE REQUIRED AT ALL STREET INTERSECTIONS, SIGNALIZED DRIVEWAYS, COMMERCIAL DRIVEWAYS 30' WIDE OR GREATER, AND MARKED MID-BLOCK CROSSWALKS.

ALTERATIONS TO EXISTING FACILITIES – GENERAL NOTES:

ADDITIONS OR ALTERATIONS TO ANY FACILITY SHALL CONFORM TO THE REQUIREMENTS FO THE NEW CONSTRUCTION STANDARDS WITHIN THE NMDOT PEDESTRIAN ACCESS DETAILS. ADDITIONS OR ALTERATIONS SHALL NOT BE MADE TO AN EXISTING FACILITY WITH WILL CAUSE THE EXISTING FACILITY TO BE IN VIOLATION OF ANY PROVISION OF THE NMDOT PEDESTRIAN ACCESS DETAILS. WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY WITH NEW CONSTRUCTION STANDARDS FO THE NMDOT PEDESTRIAN ACCESS DETAILS THE FOLLOWING OPTIONS MAY BE USED:

21.1 WHERE IT IS NOT FEASIBLE TO INSTALL TWO CURB RAMPS PER CORNER. A SINGLE DIAGONAL CURB RAMP MAY BE USED AFTER RECEIVING APPROVAL FORM THE NMDOT ADA COMPLIANCE COMMITTEE.

22.1 WHERE RIGHT-OF-WAY IS RESTRICTED. CURB RAMP LANDING MAY BE 4' X 4'.

23.1 DEFINITION OF TECHNICALLY INFEASIBLE: IN THE CONTEXT OF THESE DRAWINGS. WITHIN A ROADWAY OR IMMEDIATE ROADSIDE ENVIRONMENT. MEANS WITH RESPECT TO AN ALTERATION OF A FACILITY, THAT IT HAS LITTLE LIKELIHOOD OR BEING ACCOMPLISHED BECAUSE EXISTING SITE CONDITIONS WOULD REQUIRE SUBSTANTIALLY ALTERING EXISTING DRAINAGE PATTERNS: TRAFFIC FLOW OR SAFETY: OR BECAUSE OTHER EXISTING PHYSICAL INFRASTRUCTURE OR SITE CONSTRAINTS PROHIBIT MODIFICATION OR ADDITION OF ELEMENTS, SPACE OR FEATURES WITH ARE IN FULL AND STRICT COMPLIANCE THE MINIMUM REQUIREMENTS FOR NEW CONSTRUCTION AND WHICH ARE NECESSARY TO PROVIDE ACCESSIBILITY.

24.1 WHERE RIGHT-OF-WAY IS RESTRICTED. CURB RAMP SLOPES MAY BE 12:1.

RECORD DRAWING
DATE 8/20/08

WILSON & COMPANY
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SUITE 200
ALBUQUERQUE, NEW MEXICO
87109
(505) 348-4000
FAX (505) 348-4072
www.wilsonco.com

WCEA #0660003900

AS-BUILT INFORMATION
CONTRACTOR UNIVERSAL CONSTRUCTORS / PYTHON CONSTRUCTION DATE 4/08
WORK STAKED BY WCI DATE 8/08
INSPECTOR'S ACCEPTANCE BY WCI DATE 8/08
FIELD VERIFICATION BY WCI DATE 8/08
DRAWINGS CORRECTED BY WCI DATE 8/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
Δ= -00°14'43"
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/1/08
2	WCI	4/18/08
3	WCI	4/21/08
4	WCI	4/25/08
5	WCI	5/23/08
6	WCI	6/17/08
7	WCI	6/19/08

ENGINEER'S SEAL
MARIO G. MARTINEZ INFANTE (15340) LICENSED PROFESSIONAL ENGINEER 3/20/08

NO.	DATE	REMARKS	BY
		REVISIONS	

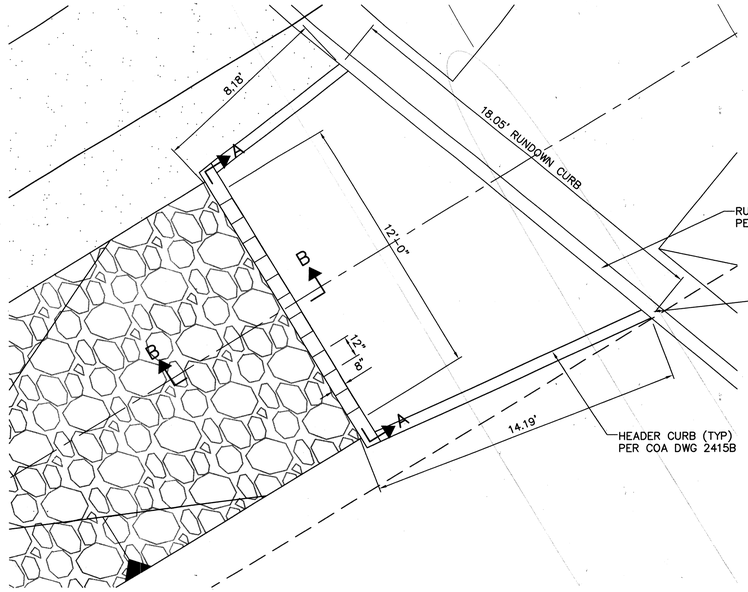
WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY MJI JAN 2008
DRAWN BY STAFF JAN 2008
CHECKED BY MJI JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

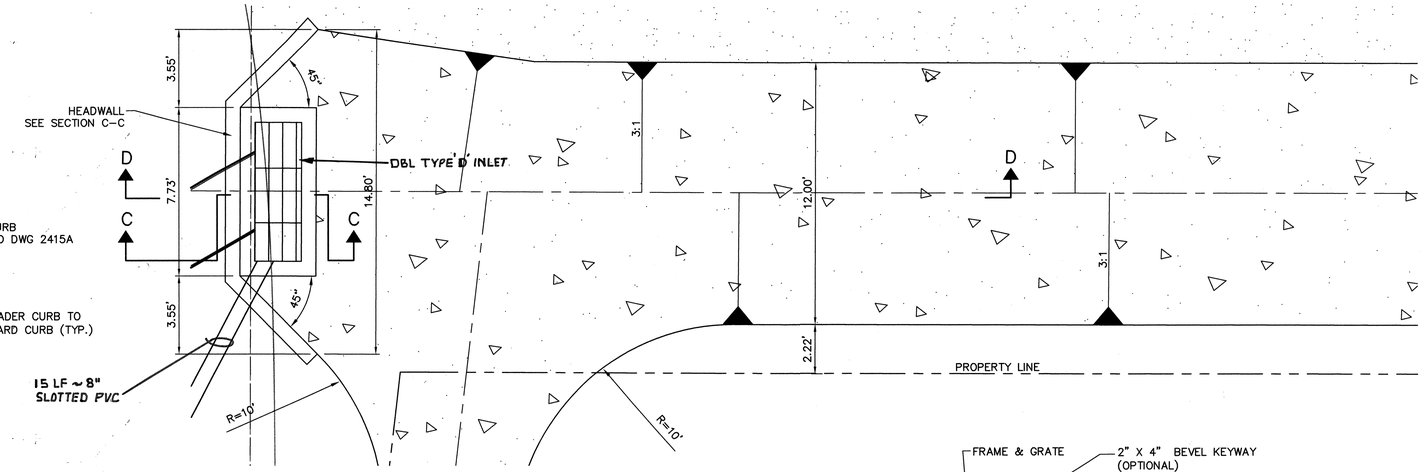
VJW STORAGE INC
TRANSPORTATION DETAILS

Design Review Committee: APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVAL MAY 16 2008 DESIGN REVIEW COMMITTEE
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

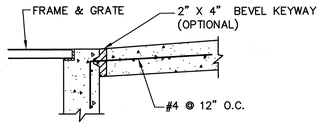
City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	15	22



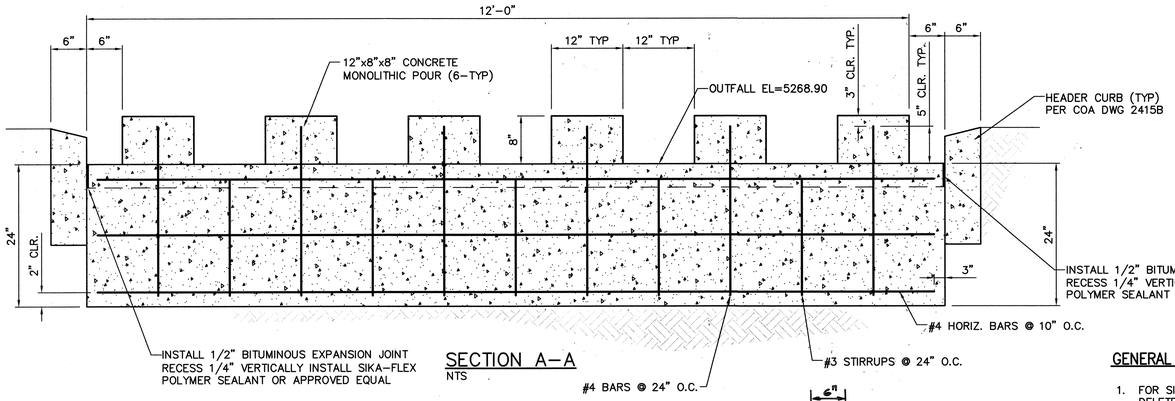
PLAN
NTS



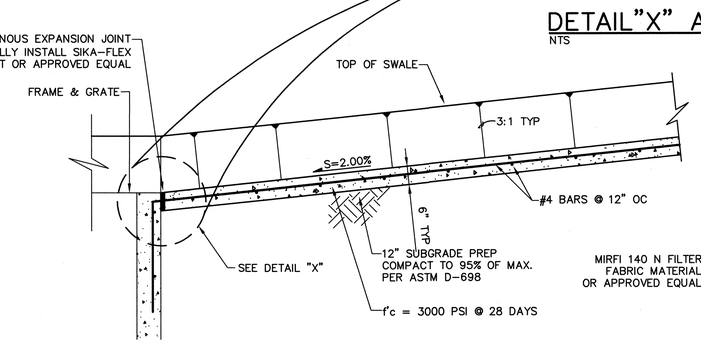
PLAN
NTS



DETAIL "X" ALTERNATE
NTS

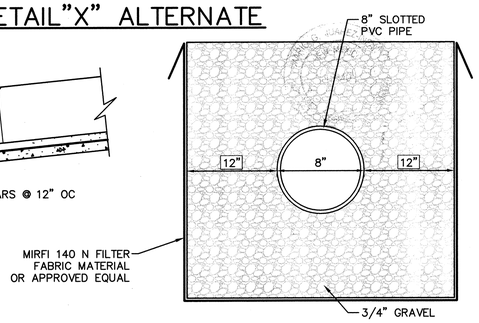


SECTION A-A
NTS



SECTION D-D
NTS

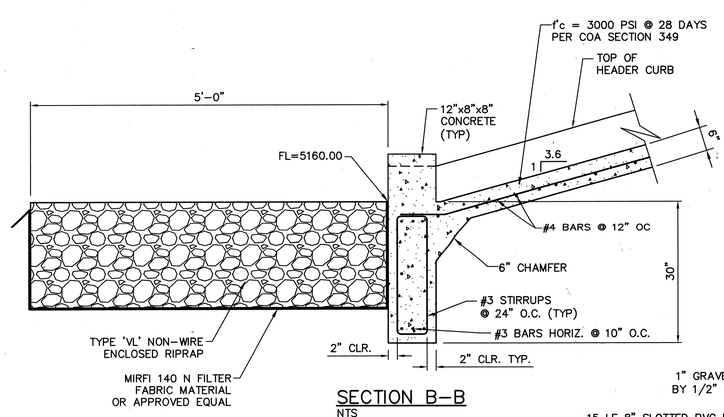
SLOPE BLANKET DETAIL



INFILTRATION PIPE DETAIL
NTS

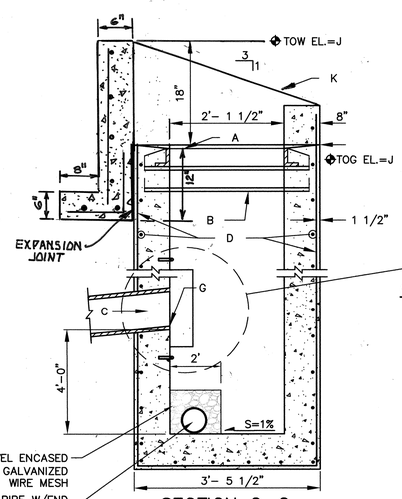
GENERAL NOTES:

1. FOR SINGLE GRATE TYPE STORM INLET, DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
2. STORM INLET GUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWG. 2216, 2220 & 2221.
5. FOR CENTER SUPPORT ASSEMBLY, SEE DWG. 2215.



SECTION B-B
NTS

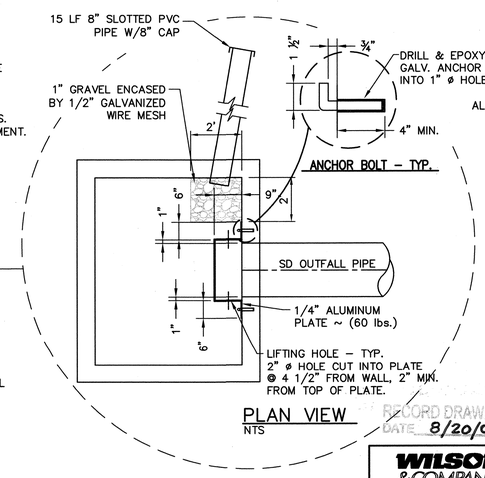
SLOPE BLANKET DETAIL



SECTION C-C
NTS

CONSTRUCTION NOTES:

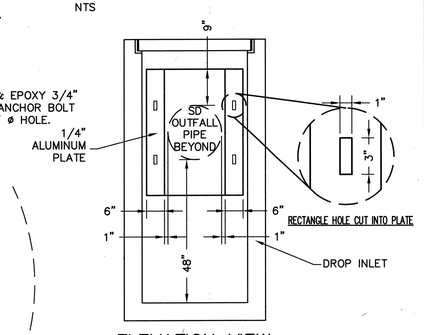
A. FRAME & GRATE.
B. CENTER SUPPORT ASSEMBLY.
C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
D. NO. 4 BARS AT 6" O.C. EACH WAY.
E. USE STANDARD STEPS, SEE DWG. 2229.
F. NOT USED
G. INVERT PER DESIGN.
H. INSTALL STEPS ON DOWNSTREAM FACE.
I. HEADWALL.
J. SEE GRADING & DRAINAGE PLAN
K. WINGWALL.



PLAN VIEW
NTS

RECORD DRAWING
DATE 8/20/08

WATER QUALITY DETAIL



ELEVATION VIEW
NTS

AS-BUILT INFORMATION
UNIVERSAL CONSTRUCTORS
PYTHON CONSTRUCTION

		DATE
CONTRACTOR		
WORK STAKED BY	WCI	4/08
INSPECTOR'S ACCEPTANCE BY	WCI	8/08
FIELD VERIFICATION BY	WCI	8/08
DRAWINGS CORRECTED BY	WCI	8/08

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BRASS TABLET STAMPED "BLACK 2 1977"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 372,920.43 Y= 1,530,241.52
GROUND-TO-GRID FACTOR= 0.9996692
A= -00°14'43"
SLD 1929 ELEVATION= 5213.926

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	WCI	4/7/08
2	WCI	4/18/08
3	WCI	4/21/08
4	WCI	4/30/08
5	WCI	5/28/08
6	WCI	6/11/08
7	WCI	6/19/08

ENGINEER'S SEAL

NARCISO JAVIER INFANTEZ
(15340)
03/06/2008
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS

DESIGNED BY	MJI	JAN 2008
DRAWN BY	STAFF	JAN 2008
CHECKED BY	MJI	JAN 2008

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW STORAGE INC
STORM DRAIN DETAILS

Design Review Committee: APPROVED APR 2 1 2008 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 1 6 2008 DESIGN REVIEW COMMITTEE

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

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	16	22

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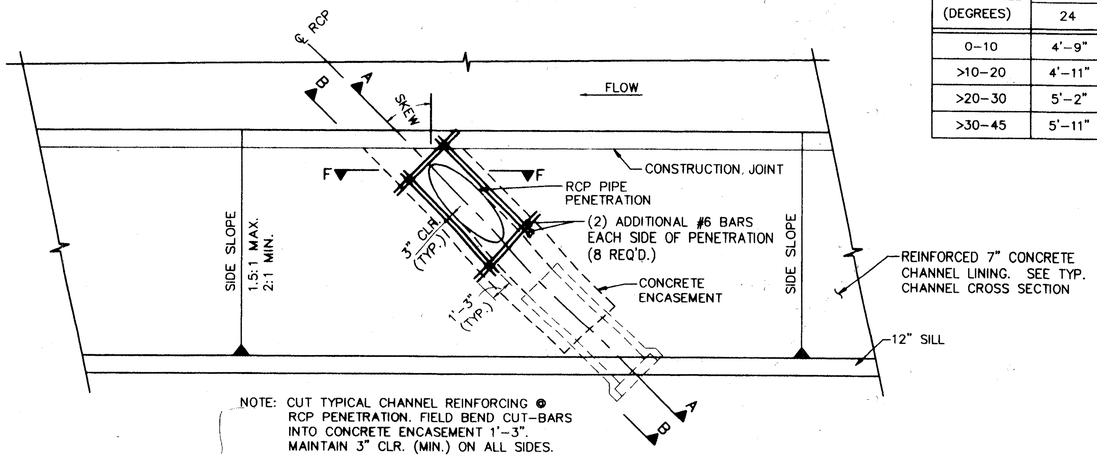
WCEA #0660003900

DIMENSION "A" FOR 1.5:1 SIDE SLOPE								
SKEW ANGLE (DEGREES)	PIPE DIAMETER (INCHES)							
	24	30	36	42	48	54	60	72
0–10	4'–9"	5'–6"	6'–3"	7'–0"	7'–10"	8'–7"	9'–4"	10'–10"
>10–20	4'–11"	5'–8"	6'–5"	7'–3"	8'–1"	8'–11"	9'–8"	11'–3"
>20–30	5'–2"	6'–0"	6'–11"	7'–9"	8'–7"	9'–6"	10'–4"	12'–1"
>30–45	5'–11"	7'–0"	8'–1"	9'–2"	10'–2"	11'–3"	12'–4"	14'–5"

DIMENSION "A" FOR 2:1 SIDE SLOPE								
SKEW ANGLE (DEGREES)	PIPE DIAMETER (INCHES)							
	24	30	36	42	48	54	60	72
0–10	5'–9"	6'–9"	7'–10"	8'–10"	9'–10"	10'–10"	11'–11"	13'–11"
>10–20	5'–11"	7'–0"	8'–1"	9'–2"	10'–3"	11'–3"	12'–4"	14'–6"
>20–30	6'–4"	7'–6"	8'–7"	9'–9"	10'–11"	12'–1"	13'–3"	15'–7"
>30–45	7'–4"	8'–9"	10'–2"	11'–7"	13'–0"	14'–5"	15'–10"	18'–9"

DIMENSION "B"							
PIPE DIAMETER (INCHES)							
24	30	36	42	48	54	60	72
10"	11"	1'–1"	1'–2"	1'–3"	1'–4"	1'–6"	1'–8"



NOTE: CUT TYPICAL CHANNEL REINFORCING @ RCP PENETRATION. FIELD BEND CUT-BARS INTO CONCRETE ENCASEMENT 1'-3". MAINTAIN 3" CLR. (MIN.) ON ALL SIDES.

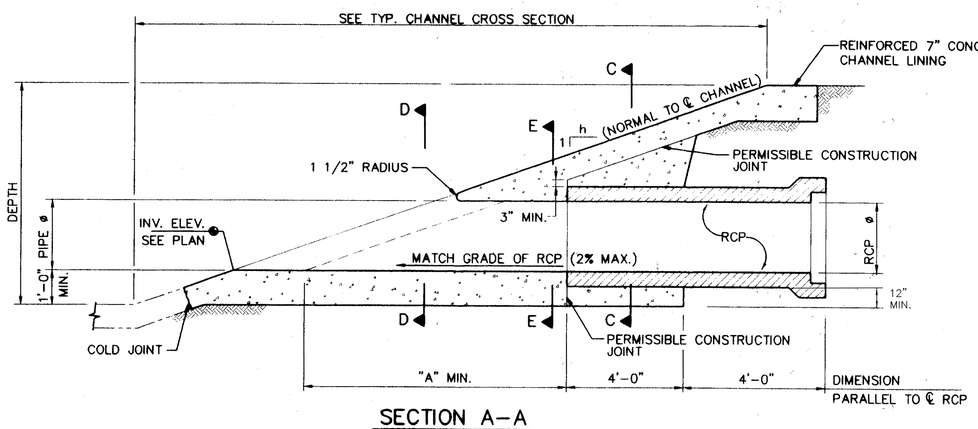
PIPE PENETRATION (PLAN VIEW)

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

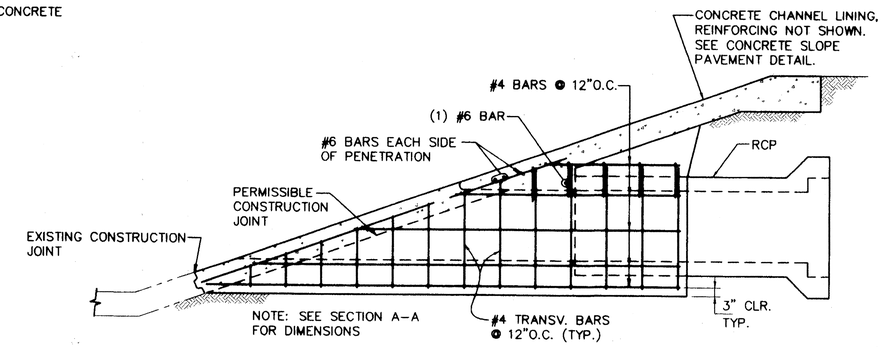
1. THE PIPE PENETRATION DETAILED HEREIN SHALL BE PAID FOR UNDER LUMP SUM AND SHALL BE COMPENSATION FOR THE PENETRATION COMPLETE AND IN PLACE. INCLUDED IN THIS WORK (BUT NOT LIMITED TO) IS GRADING, SUBGRADE PREPARATION, REINFORCED CONCRETE, CONSTRUCTION JOINTS, CONCRETE PLACEMENT AND FINISHING. NOTE THE MEASUREMENT FOR 7" CHANNEL LINING IS CONTINUOUS AND UNINTERRUPTED AT THE PENETRATION LOCATION.
2. ALL CULVERT PIPE PLACED UNDER THE CHANNEL LINING OR WITHIN AMAFCA RIGHT-OF-WAY SHALL BE RCP CLASS III.

MARIO G. JUAREZ INFANTE — NEW MEXICO — 15340 — LICENSED PROFESSIONAL ENGINEER — 03/20/08



SECTION A–A

NO SCALE



SECTION B–B

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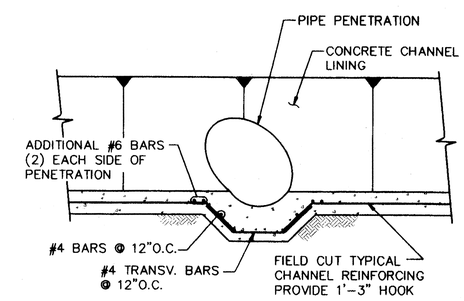
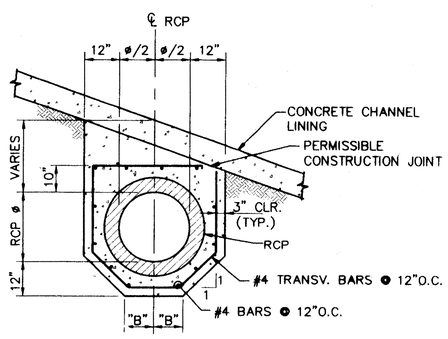


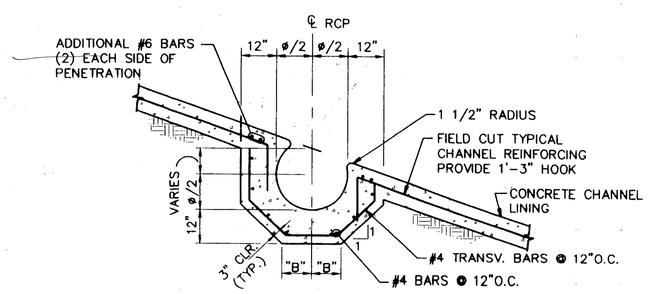
SECTION F–F

NO SCALE



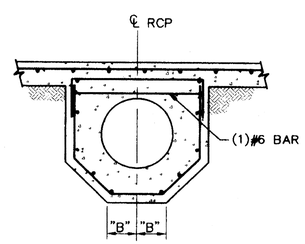
SECTION C–C

NO SCALE



SECTION D–D

NO SCALE



SECTION E–E

NO SCALE

RECORD DRAWING DATE 8/20/08

APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

VJW STORAGE INC

RCP CHANNEL PENETRATION NEW CHANNEL CONSTRUCTION: SKEW < 45°

DRAWING NO.	MAP NO.	SHEET	OF
77/8 83		17	22

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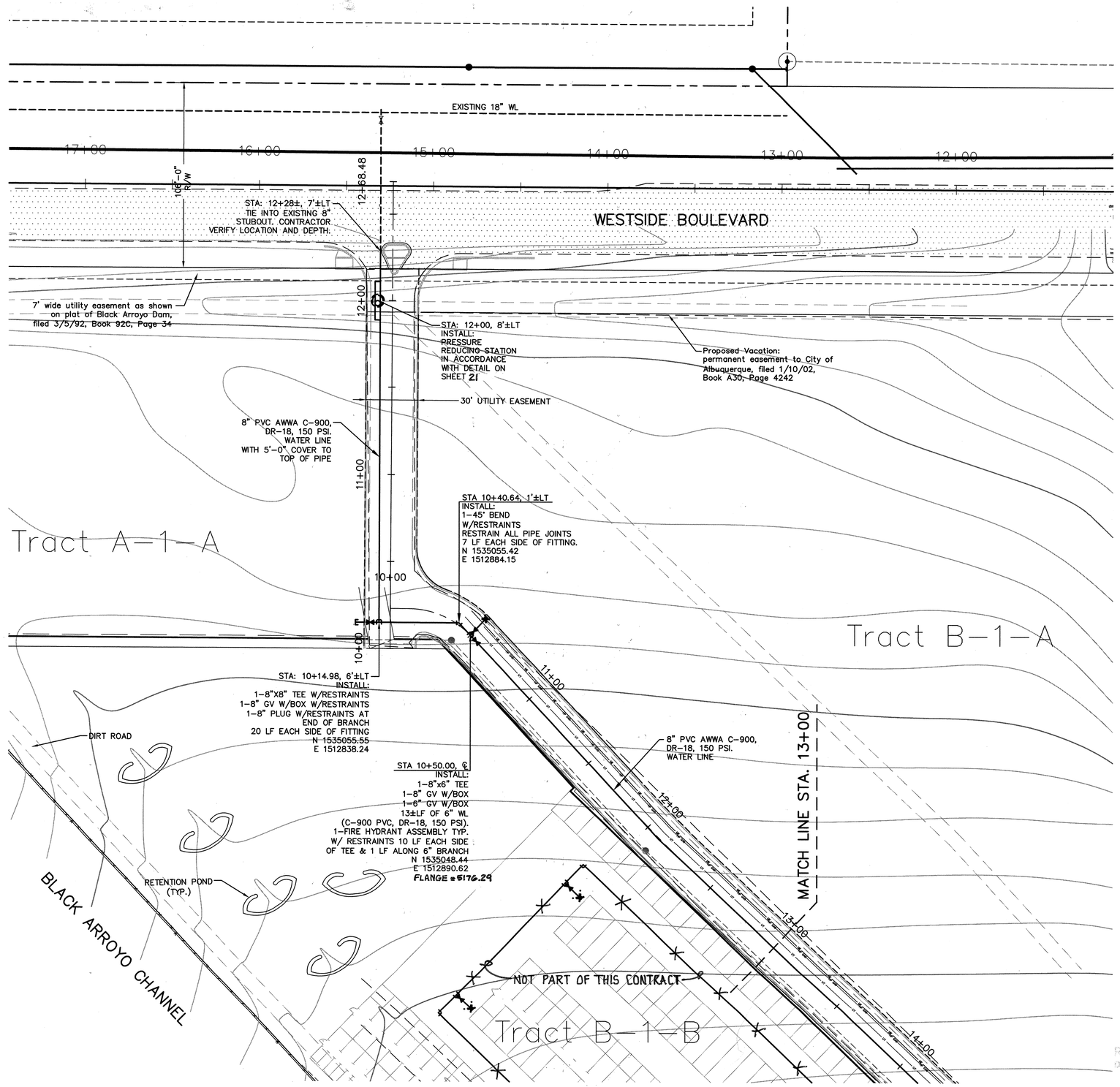
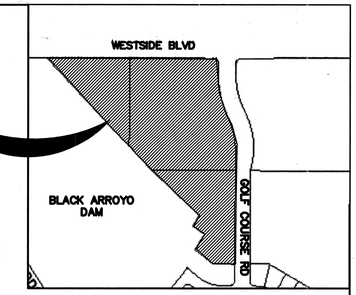


LEGEND

TBM	TEMPORARY BENCHMARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
TA	TOP OF ASPHALT
TCP	TOP OF CONCRETE
TC	TOP OF CURB
TP	TOP OF EARTH PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
MH	MANHOLE
CB	CATCH BASIN GRATE
GM	GAS METER
LP	LIGHT POLE
PP	POWER POLE
GW	GUY WIRE
PED	ELEC. OR TEL. PEDESTAL
RD	ROOF DRAINAGE POINT
	FEMA FLOORPLAN BOUNDARY
	DRAINAGE BASIN BOUNDARY
	EROSION SETBACK LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
XX.XX	EXISTING SPOT ELEVATION
●69.9	PROPOSED SPOT ELEVATION
~~XX.XX~~ XX.XX	RECORD SPOT ELEVATION
	FLOW DIRECTION
	PROPOSED RETENTION POND
	EXISTING ROW
	PROPOSED ASPHALT
	EXISTING GATE VALVE
	PROPOSED GATE VALVE
Ⓜ	PROPOSED METER



LOCATION MAP
ZONE ATLAS MAP NO. A-12

N

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

TRACTS 2-A, B-2 & C-2 & F-1 BLACK ARROYO DAM

BENCH MARK

ACS 5-A12 ELEVATION 5140.43 (NGVD) 1929)

RECORD DRAWING
DATE 8/20/08

WCEA #0660003900
FEBRUARY 2007

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JOANNE BARNETT NEW MEXICO 18090 PROFESSIONAL ENGINEER
10-15-07

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
OVERALL
UTILITY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 1998 DESIGN REVIEW COMMITTEE	APPROVED DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718 83	A-12	18	22

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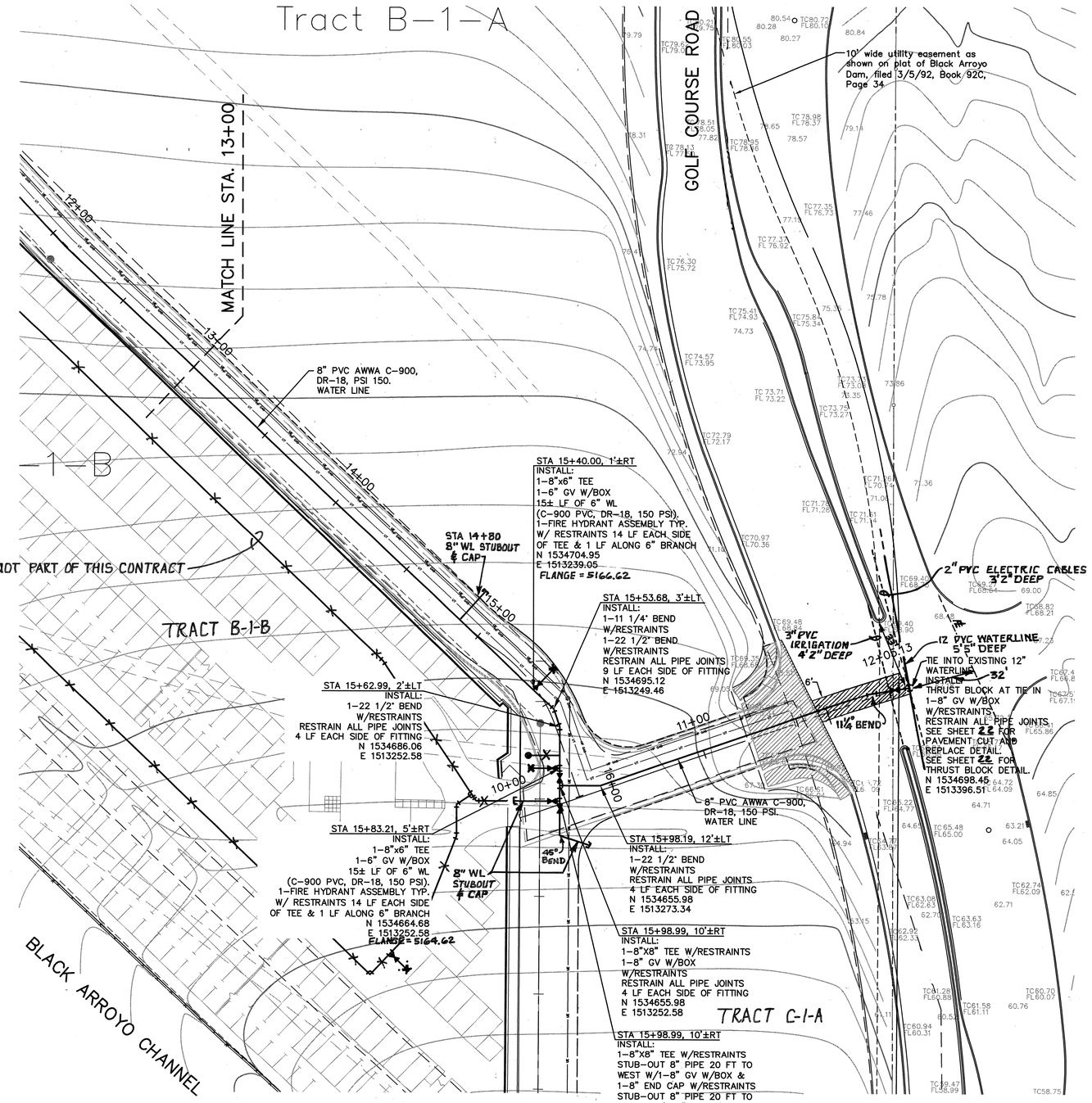

LEGEND

TBM	TEMPORARY BENCHMARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
TA	TOP OF ASPHALT
TCP	TOP OF CONCRETE
TC	TOP OF CURB
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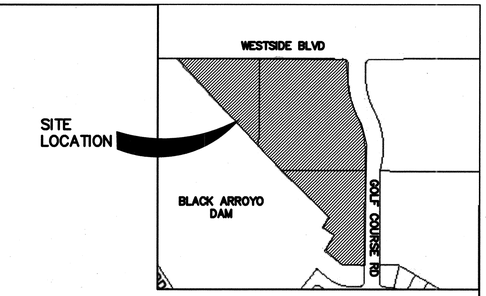
	DRAINAGE BASIN BOUNDARY
	EROSION SETBACK LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
XX.XX	EXISTING SPOT ELEVATION
●69.9	PROPOSED SPOT ELEVATION
~~XX.XX~~ XX.XX	RECORD SPOT ELEVATION
	FLOW DIRECTION
	PROPOSED RETENTION POND
	EXISTING ROW
	PROPOSED ASPHALT
	EXISTING GATE VALVE
	PROPOSED GATE VALVE
	PROPOSED METER



LOCATION MAP
ZONE ATLAS MAP NO. A-12

N

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

TRACTS 2-A, B-2 & C-2 & F-1 BLACK ARROYO DAM

BENCH MARK

ACS 5-A12 ELEVATION 5140.43 (NGVD) 1929)

RECORD DRAWING
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VJW INC. STORAGE
OVERALL
UTILITY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 23 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 2 2008 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	19	22

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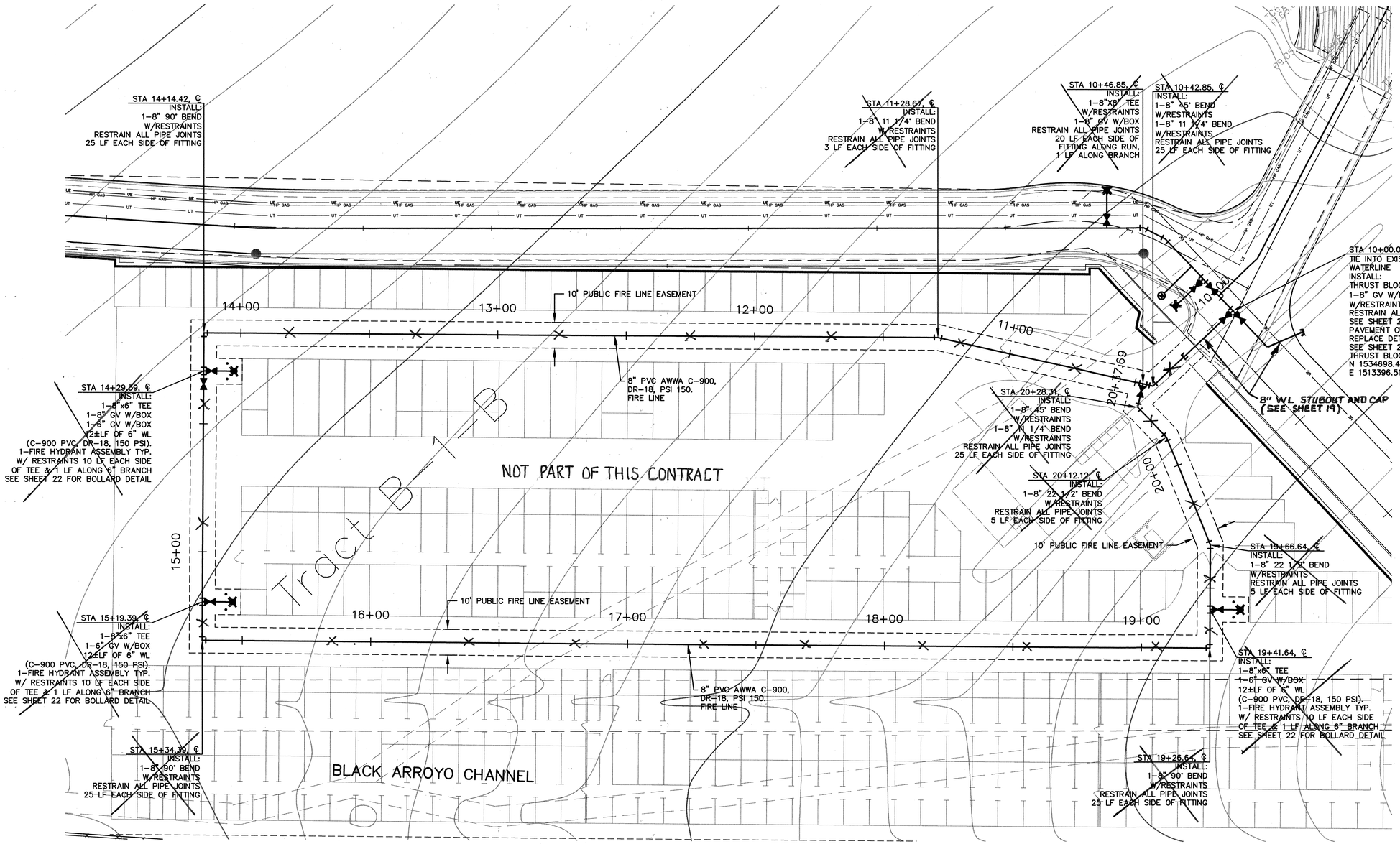

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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JOANNE BARNETT
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RECORD DRAWINGS
8/20/08

WCEA #0660003900
FEBRUARY 2007

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
OVERALL
UTILITY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED DESIGN REVIEW COMMITTEE	APPROVED DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	20	22

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1) 1" SDR9 200psi copper tube size poly.
2) 1" Flare x 3/4" yoke adapter Ball valve w/locking wing.
3) Water Meter provided by NMUI.
4) Expansion connection to be provided by NMUI.
5) Straight yoke outlet piece, 3/4" meter connection x 3/4" M.I.P.
6) Gate Valve 3/4" F.I.P. x 3/4" F.I.P.
7) Dual check backflow preventer, 3/4" M.I.P. x 3/4" F.I.P.
8) Brass nipple 3/4" M.I.P. x 3/4" M.I.P. x 6" long.
9) Yoke bar.

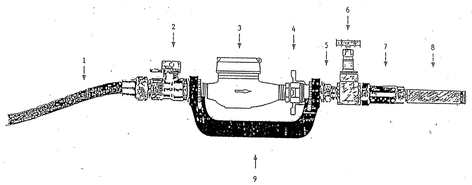
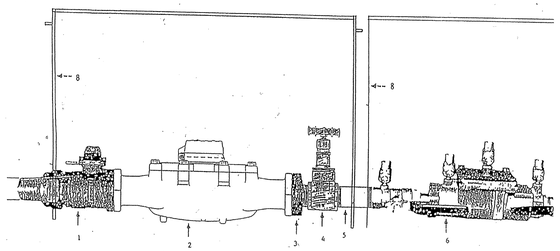


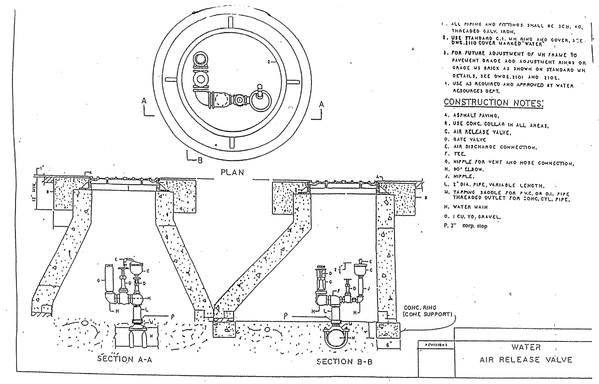
Exhibit "A"

1-1/2" and 2" Meter Set



1. Ball valve, copper flare x meter flange
2. Meter, to be provided by NMUI
3. Bronze meter flange x M.I.P.
4. Bronze gate valve, F.I.P. x F.I.P.
5. Bronze nipple 12" long M.I.P. x M.I.P.
6. Double check valve w/union connections
7. Bronze nipple, M.I.P. x M.I.P.
8. 2" meter box

EXHIBIT "A1"



1. ALL PIPING AND FITTINGS SHALL BE SCH. 40, THREADED BLACK IRON.
2. USE STANDARD C.I. VAL-MAX AIR COVER, STC DWG.2310 COVER MARKED "WATER".
3. FOR FUTURE ADJUSTMENT OF VAL-MAX TO PAVEMENT GRADE AND ADJUSTMENT RINGS ON GRADE WE BRICK AS SHOWN ON STANDARD WM DETAILS, SEE DWG.2320 AND 2321.
4. USE AS REQUIRED AND APPROVED BY WATER RESOURCES DEPT.

CONSTRUCTION NOTES:

A. ASPHALT PAVING.
B. USE CONC. COLLAR IN ALL AREAS.
C. AIR RELEASE VALVE.
D. GATE VALVE
E. AIR DISCHARGE CONNECTION.
F. TEE.
G. NIPPLE FOR VENT AND HOSE CONNECTION.
H. 90° ELBOW.
J. NIPPLE.
L. 1" DIA. PIPE, VARIABLE LENGTH.
M. TAPPING SADDLE FOR PVC OR DCI PIPE THREADED OUTLET FOR 2CNC.CTL. PIPE.
N. WATER VAVE
O. 1 CU. YD. GRAVEL
P. 2" comp. stop

EXHIBIT "B"

NEW MEXICO UTILITIES INC. STANDARDS AND SPECIFICATIONS

THE CITY OF ALBUQUERQUE'S "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" TO BE FOLLOWED WITH THE EXCEPTIONS AND/OR ADDITIONS CONTAINED HEREIN.

ALL MATERIALS AND APPLICATIONS THEREOF SHALL BE SUBJECT TO APPROVAL BY NEW MEXICO UTILITIES, INC.

MATERIAL
(1.1) MAINLINE PIPE MATERIAL SHALL BE P.V.C. UNLESS OTHERWISE SPECIFIED BY NMUI.
(1.2) P.V.C. PIPE SHALL MEET THE SAME ASTM AND AWWA SPECIFICATIONS AS REQUIRED BY THE CITY OF ALBUQUERQUE.
INSTALLATION
(2.1) ALL WATER MAINS SHALL HAVE 4 FT. MINIMUM COVER OVER THE TOP OF THE PIPE. EXCEPT AS NOTED IN THE PLANS.
(2.2) DEAD END LINES, i.e., CUL DE SAC, NOT EQUIPPED WITH A FIRE HYDRANT WILL REQUIRE A FLUSH LINE AS APPROVED BY THE ENGINEER AND NMUI.
(2.3) FITTING RESTRAINT ON P.V.C. PIPE SHALL BE CONCRETE BLOCKING OR "MEGALUGS" (OR APPROVED EQUAL), EXCEPT VERTICAL BENDS WHICH SHALL REQUIRE BOTH BLOCKING AND "MEGALUGS", UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.
(2.4) ALL MECHANICAL RESTRAINED JOINTS SHALL CONFORM TO THE RECOMMENDATIONS OF THE PIPE MANUFACTURES OR THE ENGINEER.
(2.5) A VISUAL INSPECTION OF ALL BLOCKING, "MEGALUGS", AND JOINT RESTRAINTS ARE REQUIRED.
(2.6) NO FLANGED FITTINGS ALLOWED UNDERGROUND. UNLESS THEY ARE BEING USED FOR A PRESSURIZED TAP.

VALVES
(3.1) BUTTERFLY VALVES SHALL BE EQUIPPED WITH A 2-INCH OPERATING NUT.
(3.2) THE DISTANCE FROM THE TOP OF THE OPERATING FEET AND 18 INCHES.
(3.3) VALVES ARE REQUIRED ON ALL FIRE HYDRANT LEGS.
(3.4) BRASS GATE VALVES SHALL BE EITHER OHIO BRASS OR MILWAUKEE, SERIES 100.
(3.5) ALL VALVES WILL BE MECHANICALLY RESTRAINED AND BLOCKED.

VALVE CANS
(4.1) VALVE CANS SHALL BE 5 1/4 INCHES CAST IRON SLIP TYPE VALVE CANS SUCH AS TYLER SERIES 6855, OR EQUAL.
(4.2) VALVE CANS MUST HAVE A CONCRETE COLLAR POURED TO THE TOP OF THE FINAL ASPHALT GRADE.

FIRE HYDRANTS
(5.1) WATEROUS & U.S. PIPE HYDRANTS WILL NOT BE ACCEPTED.
(5.2) AN ISOLATION VALVE IS REQUIRED ON ALL FIRE HYDRANT LEGS.
(5.3) ALL VALVES MUST BE RESTRAINED TO THE TEE AT THE MAIN. BOTH LONG SIDE AND SHORT.
(5.4) ALL VALVES ON FIRE HYDRANT LEGS REGARDLESS OF THE LOCATION MUST BE RESTRAINED.
(5.5) NO SERVICE TAPS ARE ALLOWED ON FIRE HYDRANT LEGS PAST THE ISOLATION VALVE.
(5.6) FIRE HYDRANTS ARE TO BE RESTRAINED WITH "MEGALUGS" (OR APPROVED EQUAL) AND CONCRETE BLOCKING.

TESTING
(6.1) THE HYDROSTATIC TEST SHALL BE PERFORMED AT A TEST PRESSURE OF 200 P.S.I. FOR TWO HOURS.
(6.2) INSPECTORS MUST HAVE A 48-HOUR ADVANCE NOTICE.

AIR RELEASE
(7.1) AIR RELEASE VALVES SHALL BE CONTAINED WITHIN A MANHOLE. SEE "EXHIBIT E."
(7.2) THE SIZE AND TYPE OF AIR RELEASE VALVE SHALL BE DETERMINED BY THE ENGINEER.
(7.3) PIPE SIZING AND LENGTHS MAY VERY TO ACCOMMODATE ADEQUATE ACCESSIBILITY FOR SERVICING.

BACKFLOW PREVENTION
(8.1) ALL FIRE LINES FOR SPRINKLER SYSTEMS WILL REQUIRE AN APPROVED DOUBLE CHECK ASSEMBLY THAT MEETS OR EXCEEDS AWWA C506.
(8.2) ALL POSSIBLE HAZARDOUS SITUATIONS REQUIRING MANUFACTURING, LABORATORIES, ETC., WILL REQUIRE AN R.P.Z. (REDUCED PRESSURE ZONE) DEVICE THAT MEETS OR EXCEEDS AWWA C506.
(8.3) ALL BACKFLOW PREVENTION DEVICES WILL REQUIRE RESILIENT SEAT ISOLATION VALVES BOTH UPSTREAM AND DOWNSTREAM OF THE DEVICES.
(8.4) THE BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN AN ACCESSIBLE AREA WITH PROPER DRAINAGE FACILITIES FOR THE RELIEF LINE AS APPROVED BY THE ENGINEER AND NMUI.
(8.5) WATER SERVICES 3/4" – 1" WILL REQUIRE DUAL CHECK VALVE ASSEMBLIES AS APPROVED BY N.M.U.I.
(8.6) WATER SERVICES 1 1/2" AND UP WILL REQUIRE DOUBLE CHECK VALVE ASSEMBLES AS APPROVED BY N.M.U.I.

FITTINGS
(1.1) A TYPICAL SERVICE SET WITH FITTINGS FOR A 3/4 INCH THROUGH 1 INCH METER SET IS DETAILED IN "EXHIBIT A".
(1.2) A TYPICAL SERVICE SET WITH FITTINGS FOR A 1 1/2" AND 2" METER SET IS DETAILED IN "EXHIBIT A1".
(1.3) METER VALVES SHALL BE BRONZE YOKE BALL VALVES, 1" COPPER FLARE BY 3/4" METER FOR A 3/4" SERVICE, 1" C.F. BY 1" METER FOR A 1" SERVICE, 1 1/2" C.F. BY 1 1/2" METER FLANGE FOR A 1 1/2" SERVICE, 2" C.F. BY 2" METER FLANGE FOR A 2" SERVICE.
(1.4) BRASS GATE VALVES SHALL BE EITHER OHIO BRASS OR MILWAUKEE, SERIES 105.
(1.5) WATER SERVICES 3/4" – 1" WILL REQUIRE DUAL CHECK VALVE ASSEMBLIES AS APPROVED BY N.M.U.I.
(1.6) WATER SERVICES 1 1/2" AND UP WILL REQUIRE DOUBLE CHECK VALVE ASSEMBLIES AS APPROVED BY N.M.U.I.
(1.7) SERVICE FITTINGS INCLUDING THE CORPORATION STOP SHALL BE COPPER FLARE NUT. PACK JOINT FITTINGS ARE NOT ACCEPTABLE.

SERVICE LINES
(2.1) SERVICE LINES FOR A 3/4 INCH SERVICE SHALL BE 1 INCH IN DIAMETER.
(2.2) SERVICE LINES SHALL HAVE A MINIMUM OF 3 FEET OF COVER.
(2.3) P.E. TUBING SHALL BE P.E. 3408 SDR9 200 PSI C.T.S. AND MEET AWWA C901.
(2.4) "NU-MEX" P.E. TUBING IS NOT ACCEPTABLE.
(2.5) SERVICE LINES MUST BE FLARED AT BOTH ENDS.
(2.6) NO SPLICES ARE ALLOWED IN THE SERVICE LINE.

METER BOXES
(3.1) 3/4 AND 1-INCH METER BOX AND LID ARE DETAILED IN "EXHIBIT B" (OR APPROVED EQUAL) FOR A SINGLE SERVICE AND FOR A DOUBLE SERVICE.
(3.2) 1 1/2-INCH AND 2-INCH METER BOXES ARE DETAILED IN "EXHIBIT C".
(3.4) FOR A TYPICAL 3/4-INCH METER BOX INSTALLATION THE BOX SHALL BE LOCATED 12 INCHES BACK OF CURB. SEE "EXHIBIT D".
(3.5) W'S SHOULD BE SCRIBED IN FRONT OF THE BOX.

IRRIGATION
(4.1) ALL APPLICATIONS OTHER THAN SINGLE-FAMILY RESIDENTIAL HOUSING WILL REQUIRE A SEPARATE WATER SERVICE FOR IRRIGATION USE.

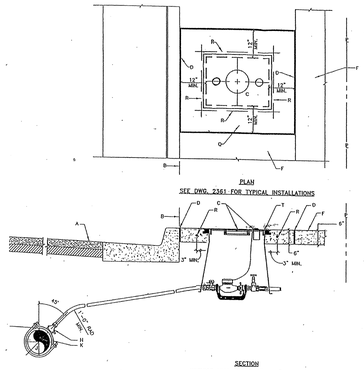
WASTE WATER
MATERIALS
(1.1) MAINLINE PIPE MATERIAL SHALL BE SDR 35 P.V.C. UNLESS OTHERWISE SPECIFIED BY NMUI.
(1.2) P.V.C. PIPE SHALL MEET THE SAME A.S.T.M. SPECIFICATIONS AS REQUIRED BY THE CITY OF ALBUQUERQUE.
(1.3) MANHOLES SHALL REQUIRE STEPS.
(1.4) STEPS SHOULD BE PLACED ON THE UP STREAMSIDE OF THE MANHOLE.
(1.5) MANHOLE COVERS SHALL BE IMPRINTED " SANITARY SEWER".
(1.6) MANHOLE RING AND COVER MUST HAVE A CONCRETE COLLAR POURED TO THE TOP OF FINAL ASPHALT GRADE.

TESTING
(2.1) NO AIR TESTING SHALL BE PREFORMED, UNTIL THE COMMON UTILITY DITCH IS EXCAVATED.
(2.2) INSPECTORS MUST HAVE A 48-HOUR ADVANCE NOTICE.

SERVICES
MATERIAL
(1.1) A TYPICAL RESIDENTIAL SERVICE LATERAL SHALL BE 4-INCH DIAMETER SDR26 AND SHALL MEET THE REQUIREMENTS AND DESIGNATIONS OF ASTM D3034.
(1.2) SERVICE LATERALS FOR COMMERCIAL APPLICATION SHALL BE 6-INCH DIAMETER S.D.R.35 P.V.C. AND MEET THE SAME REQUIREMENTS FOR MAINLINE MATERIAL.
(2.1) SERVICE CONNECTIONS TO THE MAINLINE MAY BE MADE WITH EITHER SADDLE TEES OR IN-LINE TEES OR WYES.
(2.2) SADDLE TEES SHALL REQUIRE PROTRUSIONS TO INSURE PROPER ALIGNMENT AND PREVENT ROTATION.
(2.3) FITTINGS SHALL REQUIRE NMUI APPROVAL AND BE COMPATIBLE WITH THE MAINLINE AND SERVICE LINE.
(2.4) NO CAN-TEX ADAPTERS ALLOWED. COUPLINGS MUST BE SOLID SLIP TYPE.

INSTALLATION
(3.1) THE DEPTH OF THE SERVICE LATERAL AT ITS TERMINUS SHALL NOT BE GREATER THAN 10 FEET. WHERE REQUIRED, RISERS SHALL BE USED.

GREASE TRAPS
(4.1) ON ALL FOOD SERVICE OPERATIONS, A GREASE TRAP WILL BE REQUIRED BEFORE CONNECTION TO NMUI'S SEWER FACILITIES. THE TRAP WILL REQUIRE THE INSPECTION AND APPROVAL OF NMUI.

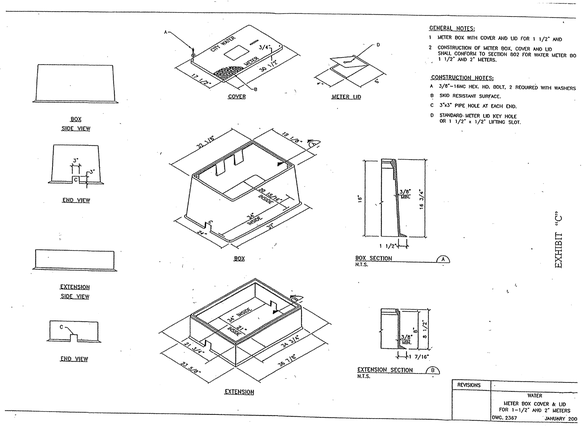


CONSTRUCTION NOTES:
A STREET SURFACE.
B BACK OF CURB.
C CAST IRON METER BOX, COVER AND LID.
D 1/2" EXPANSION JOINT.
E CURB STOP, LOCATE INSIDE METER BOX.
F SIDEWALK OR DRIVEWAY.
G METER. TOP OF METER TO BE 12"-18" BELOW COVER
H CORP STOP.
J MAIN WATER LINE.
K TAPPING SADDLE.

Q CONCRETE PAD REQUIRED IN ALL AREAS PER SEC. 11 EXTERIOR CONCRETE, f'c=2500 psi @ 28 DAYS.
R #4 REBAR CONTINUOUS ALL AROUND METER BOX.

T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

EXHIBIT "D"



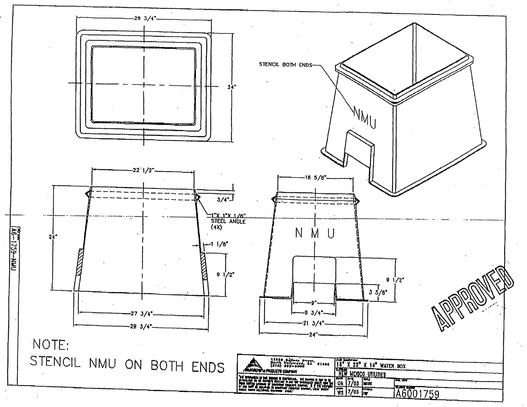
GENERAL NOTES:
1 METER BOX WITH COVER AND LID FOR 1 1/2" AND
2 CONSTRUCTION OF METER BOX, COVER AND LID SHALL CONFORM TO SECTION 802 FOR WATER METER BO 1 1/2" AND 2" METERS.

CONSTRUCTION NOTES:
A 3/8"-16NC HEX. HD. BOLT, 2 REQUIRED WITH WASHERS
B SHAD RESISTANT SURFACE.
C 3"x3" PIPE HOLE AT EACH END.
D STANDARD METER LID KEY HOLE OR 1 1/2" x 1/2" LIFTING SLOT.

3/4" – 1" METERED SERVICE LINE INSTALLATION

REVISIONS	WATER
	METER BOX COVER & LID FOR 1-1/2" AND 2" METERS
	DWG. 2347 JANUARY 200

EXHIBIT "C"



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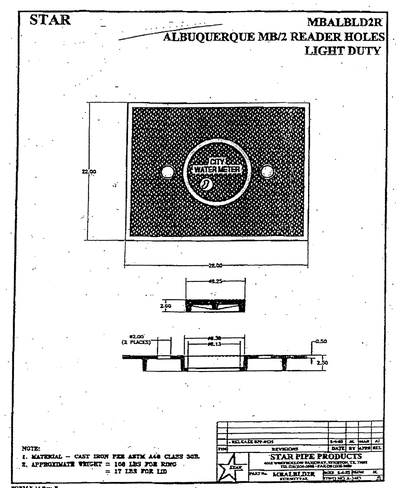

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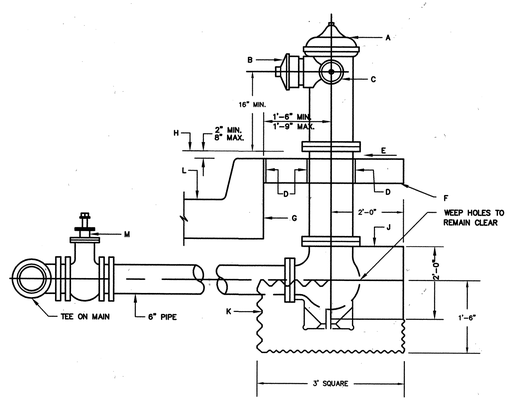


DETAIL OF FIRE HYDRANT SETTING WITH BLOCKING

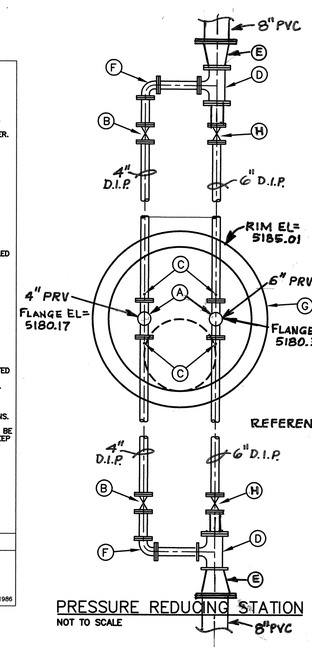
GENERAL NOTES:

1. NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 3 FT. OF FIRE HYDRANT.
2. HYDRANT LEG SHALL BE VALVED IN COMMERCIAL AND INDUSTRIAL AREAS, IN ARTERIAL STREETS AND ON ALL MAIN LINES SIZED 10" AND GREATER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF FIRE HYDRANT TO THE CONTROLLED ELEVATION LINE.
4. FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS. SEE DWG. 2360 AND 2347.
5. WHEN NEW OR EXISTING SIDEWALK ABUTS CURB, RECONSTRUCT SIDEWALK AS PER DWG. 2430, 2431.
6. PUMPER NOZZLE TO BE SET FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED ON PLANS.

CONSTRUCTION NOTES:

A. FIRE HYDRANT PER SPEC'S.
B. PUMPER NOZZLE 4 1/2".
C. HOSE NOZZLE 2 1/2".
D. 1/2" EXPANSION JOINT MATERIAL.
E. SLOPE 1/4" PER FT.
F. 3' X 3' X 6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
G. BACK OF CURB.
H. CONTROLLED ELEV. LINE, LEVEL IN ALL DIRECTIONS.
J. CONC. THRUST BLOCK, APPROX. 2' X 2' X 3' TO BE POURED AGAINST UNDISTURBED EARTH, F. H. WEEP HOLE MUST BE UNOBSTRUCTED.
K. GRAVEL DRAIN POCKET, COVER TOP SURFACE WITH TAR PAPER.
L. STANDARD CURB & GUTTER. FOR OTHER TYPES OF C. & G., OR WHERE NO C. & G. EXIST, THE PLACEMENT OF FIRE HYDRANT REQUIRES SPECIAL DESIGN.
M. IF VALVE IS REQUIRED, VALVE WILL BE CONNECTED TO TEE AT MAIN.

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	FIRE HYDRANT INSTALLATION
	DWG. 2340 AUG. 1986



PRESSURE REDUCING STATION
NOT TO SCALE

PRESSURE REDUCING STATION NOTES:

A. 6"&4" PRESSURE REDUCING VALVE CLA-VAL MODEL 90-43/590-48 FLANGED, GLOBE STYLE, CLASS 150
B. 4" GATE VALVE W/TYPE "A" BOX AND LID FLANGED.
C. PRESSURE GAUGES W/ 1/2" PETCOCK CONNECTIONS, FREEZE PROOF AND LIQUID FILLED.
D. 6"X6"X4" FLANGED TEE.
E. 8"X6" CONCENTRIC REDUCER.
F. 4" 90° BEND
G. INSTALL PRESSURE REDUCING VALVES IN 6" DIA. TYPE "C" MANHOLE IN A MANNER SIMILAR TO COA STD DWG 2353 INCLUDING ALL PEDESTALS, GROUTING, CLEARANCES, AND PETCOCK CONNECTIONS. USE 36" MANHOLE FRAME AND COVER MARKED "WATER" SET ECCENTRICALLY IN FLAT CONCRETE COVER ON MANHOLE. MANHOLE STEPS ARE INCLUDED W/TYPE "C" MANHOLE.
H. 6" FLANGED PRESSURE REDUCING VALVE

REFERENCE SHEET 18 OF 22

RECORD DRAWING
DATE 8/20/08

WCEA #0660003900
FEBRUARY 2007

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10-15-07

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
MISCELLANEOUS DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE	APPROVED DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
7718.83	A-12	21	22

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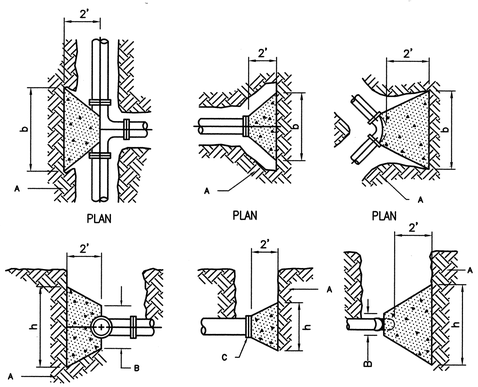


GENERAL NOTES:

1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL JOINTS GREATER THAN 14".

PIPE SIZE	ELBOW ANGLE	ELBOW (b) DIM.	ELBOW (h) DIM.	TEE OR PLUG (b) DIM.	TEE OR PLUG (h) DIM.
4"				2'	1'
4"	90° 45°	2'	2'		
4"	22 1/2° 11 1/4°	2'	2'		
6"				2'	2'
6"	90° 45°	2'	2'		
6"	22 1/2° 11 1/4°	2'	2'		
8"				3'	3'
8"	90°	3'	3'		
8"	45°	2'	2'		
8"	22 1/2° 11 1/4°	2'	2'		
10"				3'	3'
10"	90°	3'- 6"	3'- 6"		
10"	45°	3'	3'		
10"	22 1/2° 11 1/4°	2'	2'		
12"				3'- 6"	3'- 6"
12"	90°	4"	4"		
12"	45°	3'- 6"	3'- 6"		
12"	22 1/2° 11 1/4°	2'	2'		
14"				4'	4'
14"	90°	5'	5'		
14"	45°	3'- 6"	3'- 6"		
14"	22 1/2° 11 1/4°	3'	3'		

CONSTRUCTION NOTES:

A. UNDISTURBED EARTH.

B. O.D. OF PIPE + 8".

C. O.D. OF CAP OR PLUG, MIN. 12" X 12".

THRUST BLOCKING DETAIL

SCALE: 1" = 1'

PRESSURE PIPE RESTRAINED JOINT LENGTH REQUIREMENTS

TEST PRESSURE @ 150 PSI

LENGTHS OF PIPE TO BE RESTRAINED (APPLIES TO UNWRAPPED DUCTILE IRON AND PVC, ONLY) (FEET)

	FITTING TYPE				TEE (3)	FIRE HYDRANT TEE (4)	DEAD END OR VALVE (5)	VERTICAL DOWNBEND							
								45°		22 1/2°		11 1/4°			
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	RESTRAINED LENGTH ALONG BRANCH (Lb)	STD. 6-INCH BRANCH LINE		UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT
4" (1)	18'	7'	4'	2'	1'	NOT APPLICABLE	39'	16'	4'	8'	2'	4'	1'
6" (1)	25'	10'	5'	2'	1'	FOR ALL PIPE MAIN LINE SIZES, ALL FITTINGS AND PIPE JOINTS FROM TEE TO FIRE HYDRANT FLANGE SHALL BE RESTRAINED	55'	23'	5'	11'	3'	5'	1'
8" (1)	32'	13'	6'	3'	1'		72'	30'	7'	14'	3'	7'	2'
10" (1)	38'	15'	8'	4'	1'		86'	36'	8'	17'	4'	8'	2'
12" (1)	45'	18'	9'	4'	3'		102'	42'	10'	20'	5'	10'	2'
14" (2)	39'	16'	8'	4'	13'		89'	37'	10'	18'	5'	9'	2'
16" (2)	44'	18'	9'	4'	23'		101'	42'	11'	20'	5'	10'	3'
18" (2)	49'	20'	10'	5'	33'		112'	46'	12'	22'	6'	11'	3'
20" (2)	53'	22'	11'	5'	43'		123'	51'	13'	24'	6'	12'	3'
24" (2)	62'	26'	12'	6'	62'		144'	60'	16'	29'	8'	14'	4'

(1) ASSUMES MINIMUM DEPTH OF BURY = 3 FT.
(2) ASSUMES MINIMUM DEPTH OF BURY = 4 FT.
(3) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L_r) IS 20 FT. ASSUMES BRANCH AND RUN PIPE DIAMETERS ARE EQUAL.
(4) ASSUMES MINIMUM FULL PIPE JOINT LENGTH ON EITHER SIDE OF TEE RUN (L_r) IS 20 FT. ASSUMES TEE RUN PIPE DIAMETER IS EQUAL TO PIPE SIZE AND BRANCH PIPE DIAMETER IS 6 INCHES.
(5) RESTRAINED LENGTH FOR VALVES SHALL BE PROVIDED ON BOTH SIDES OF VALVE.
(6) WHERE POSSIBLE, CONTRACTOR SHALL INSTALL FULL 20-FT JOINT OF PIPE ON EITHER SIDE OF ALL MECHANICAL JOINT VALVES, FITTINGS, AND APPURTENANCES. FOR ALL CIRCUMSTANCES WHERE A 20-FT JOINT CAN BE UTILIZED AND THE CONTRACTOR ELECTS TO USE A SHORTER PIPE JOINT, CONTRACTOR SHALL PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL NECESSARY JOINT RESTRAINTS REQUIRED BY TABLE ABOVE.

THRUST RESTRAINT NOTE:

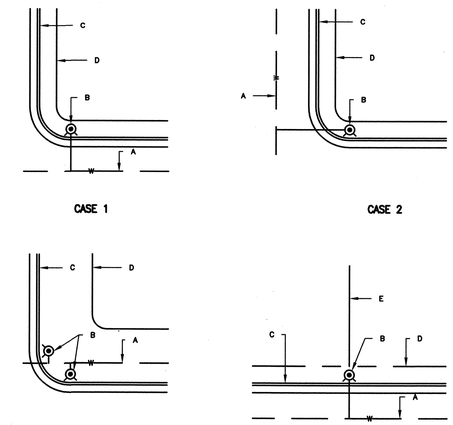
ALL BURIED VALVES, FITTINGS, AND APPURTENANCES SHALL BE MECHANICAL JOINT-TYPE UTILIZING "MEGA-LUG"® STYLE MECHANICAL JOINT RESTRAINTS IN CONJUNCTION WITH "MEGA-LUG"® PIPE BELL-HARNESS RESTRAINTS WHEN ADEQUATE RESTRAINED LENGTH CAN BE OBTAINED. IN THE EVENT ADEQUATE RESTRAINED LENGTHS CANNOT BE OBTAINED, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR DETERMINATION OF APPROPRIATE ACTION TO BE TAKEN. THE EBAA IRON "RESTRAINED LENGTH CALCULATION" PROGRAM (VERSION 4.0) HAS BEEN USED TO DETERMINE MINIMUM RESTRAINED LENGTHS SHOWN IN TABLE ABOVE. THE FOLLOWING GENERAL ASSUMPTIONS APPLY TO ALL CALCULATIONS:

TRENCH TYPE _____ 3
SOIL TYPE _____ SM (SILTY SANDS, SAND SILT MIXTURE)
SAFETY FACTOR _____ 1.5 TO 1

TYPICAL BURY DEPTH:
4" THROUGH 12" DIAMETER PIPE 3 FT
14" THROUGH 24" DIAMETER PIPE 4 FT

TYPICAL BURY DEPTHS FOR VERTICAL OFFSETS:
4" THROUGH 12" DIAMETER PIPE 3 FT TO TOP OF UPPER BRANCH
6 FT TO TOP OF LOWER BRANCH
14" THROUGH 24" DIAMETER PIPE 4 FT TO TOP OF UPPER BRANCH
7 FT TO TOP OF LOWER BRANCH

CONTRACTOR MAY SUBMIT SUBSTITUTE REDUCED RESTRAINED JOINT LENGTHS IF SOIL AND DEPTH OF BURY CONDITIONS WARRANT. CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS AND APPROPRIATE CALCULATIONS TO SUPPORT THE LENGTH REDUCTION. SOIL TESTING AND CALCULATIONS SHALL BE PERFORMED AT CONTRACTOR'S SOLE EXPENSE.



TYPICAL LOCATIONS

GENERAL NOTES:

1. NORMALLY FIRE HYDRANTS ARE LOCATED AT END OF CURB RETURN; HYDRANTS WILL NOT BE LOCATED WITHIN THE CURB RETURN AREA. FIRE HYDRANTS TO BE LOCATED WITHIN THE BLOCK LENGTH WILL BE INSTALLED AT A PROPERTY LINE (CASE 4).
2. A MINIMUM CLEARANCE OF 5' WILL BE PROVIDED BETWEEN A FIRE HYDRANT AND A PERMANENT OBSTRUCTION (UTILITY POLE, LIGHT STANDARD, TRAFFIC SIGNAL, ETC.).
3. FOR INSTALLATION OF FIRE HYDRANT SEE DWG. 2340.
4. SEE DWG. 2431 FOR SIDEWALK CONFIGURATION WHEN FIRE HYDRANT IS LOCATED IN SIDEWALK.

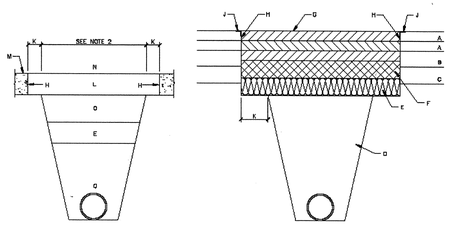
CONSTRUCTION NOTES:

A. WATER MAIN.
B. FIRE HYDRANT.
C. CURB AND GUTTER.
D. RIGHT-OF-WAY LINE.
E. PROPERTY LINE.

REVISIONS	CITY OF ALBUQUERQUE
	WATER DETAILS ON TYPICAL FIRE HYDRANT LOCATIONS DWG. 2347 AUG. 1986

GENERAL NOTES:

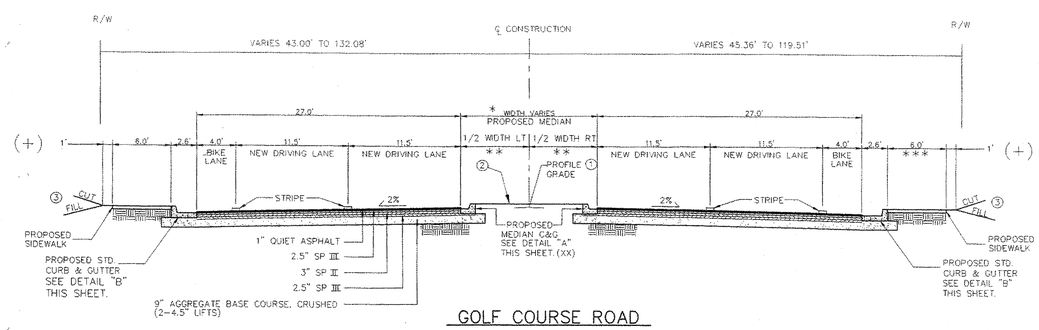
1. COMPACTION AS DETERMINED BY ASTM D1557 MAX DENSITY.
2. TRENCH CUT WIDTHS SHALL BE MIN. WIDTH REQ'D FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL COMPACTION AND COMPLIANCE WITH CURRENT AND APPLICABLE SAFETY REGULATIONS.
3. ALL PAVEMENTS CUT EDGES WILL BE TRIMMED TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIAL. "STITCH" CUTTING OF PAVEMENT WILL NOT BE PERMITTED.
4. ADDITIONAL 2" THICKNESS OF ASPHALT CONC. REQ'D ON PAVEMENT CUTS LESS THAN 6' WIDE FOR ASPHALT CONC. PAVEMENT CUTS 6' OR MORE IN WIDTH AND LONGER THAN 100' SHALL BE PLACED WITH LAYDOWN MACHINE TO A DEPTH EQUAL TO THAT OF ASPHALT CONC. REMOVED.



CONSTRUCTION NOTES:

A. EXISTING ASPHALT PAVEMENT.
B. EXISTING BASE MATERIAL (ABC, BTB, CTB)
C. EXISTING SUBGRADE
D. COMPACTED FILL, 95% COMPACTION
E. COMPACTED SUBGRADE, 95% COMPACTION. SUBGRADE TO MEET OR EXCEED APPARENT R-VALUE OF ADJACENT SOIL BY SOIL CLASSIFICATION (2 TEST MIN.).
F. PROPOSED ASPHALT CONCRETE PLUS AN ADDITIONS 2" OF THICKNESS. SEE NOTE 4.
G. MATCH EXISTING ASPHALT CONCRETE SECTION PLUS AN ADDITIONAL 2" OF THICKNESS.
   a) FOR RESIDENTIAL STREETS, SURFACE COURSE SHALL BE 1 1/2" THICK, TYPE C
   b) FOR MAJOR LOCAL STREETS, SURFACE COURSE SHALL BE 2" THICK, TYPE B
   c) FOR ALL OTHER STREETS, SURFACE COURSE SHALL BE 2" THICK, TYPE C
H. SAW CUT OR BLADE-CUT ASPHALT PAVEMENT. SAW CUT ONLY ONE THIRD CONC. DEPTH
J. TACK COAT
K. 1/2" CUT-BACK
L. 6" EXISTING CONCRETE PAVEMENT THICKNESS, 8" REINFORCED PCC
M. EXISTING CONCRETE PAVEMENT
N. JOINTS TO BE TOOLED & SEALED IN ACCORDANCE WITH ENGINEERS REQUIREMENTS
O. 8" CONC. TREATED BASE (C.T.B).

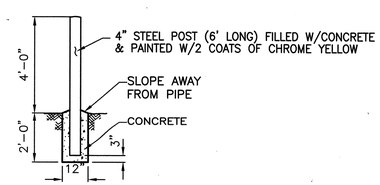
REVISIONS	CITY OF ALBUQUERQUE
1/91 12/15/92	PAVING CITYWIDE PAVEMENT CUTS FOR ALL UTILITIES DWG. 2465 JANUARY 2003



GOLF COURSE ROAD
PROPOSED TYPICAL ROADWAY SECTION 1

NTS

NOTE: PAVEMENT CUT AND REPLACE ON GOLF COURSE ROAD. SAW CUT ASPHALT AND MATCH EXISTING PAVEMENT FOR PAVEMENT REPLACEMENT.



BOLLARD DETAIL

NOT TO SCALE

RECORD DRAWING
DATE 8/20/08
APPROVED BY CITY ENGINEER

WCEA #0660003900
FEBRUARY 2007

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10-15-07

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

VJW INC. STORAGE
MISCELLANEOUS DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 19 2008 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	Of
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