ABBREVIATIONS = AIR LINE = AREA DRAIN AIP = ABANDONED IN PLACE APS SCHOOL ON WHEELS BM = BENCHMARK CATV = CABLE TELEVISION LINE CIP = CAST IRON PIPECMP = CORRUGATED METAL PIPE CITY OF ALBUQUERQUE, CMPA = CORRUGATED METAL PIPE ARCH CO = CLEANOUTCOA = CITY OF ALBUQUERQUE IMPROVEMENTS FOR PUBLIC CONC = CONCRETECL = CENTERLINE DIA = DIAMETER DIP = DUCTILE IRON PIPE WATERLINE AT CHAPARRAL DTL = DETAILDWG = DRAWINGEG = EXISTING GRADE ELEC. = ELECTRICELEV = ELEVATION INDEX TO DRAWINGS EX = EXISTINGFF = FINISHED FLOOR ELEVATION = FINISHED GRADE SHEET NO DESCRIPTION = FIRE HYDRANT COVER SHEET AND INDEX TO DRAWINGS = GAS PIPE BOUNDARY AND TOPOGRAPHIC SURVEY GV = GATE VALVEHI PT = HIGH POINT BOUNDARY AND TOPOGRAPHIC SURVEY INV = INVERT ELEVATION OVERALL UTILITY PLAN LF = LINEAL FEET UTILITY PLAN AND PROFILE (PHASE I) L/S = LANDSCAPINGMH = MANHOLEUTILITY PLAN AND PROFILE (PHASE I) NG = NATURAL GROUND = OVERHEAD ELECTRIC LINE UTILITY PLAN AND PROFILE (PHASE II) = OVERHEAD TELEPHONE LINE UTILITY PLAN AND PROFILE (PHASE II) = ELECTRICAL PULL BOX PCC = PORTLAND CEMENT CONCRETE PP = POWER POLE PROP = PROPOSEDI, David A Aube. NMPE 14221, of the firm The Hartman + Majewski Design Group, Inc, hereby certify that this PVC = POLYVINYL CHLORIDE PIPE project is in substantial compliance with and in RCP = REINFORCED CONCRETE PIPE accordance with the design intent of the plan approve plan dated 6-28-07. The record information edited onto the original design documents when obtained by Joseph Solomon of the firm High Mesa Consulting Group. I further certify that I have personally visited the project site on November 30, 2007 and have

letermined by visual inspection that the actual site

conditions shown on this plan to be true and correct

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of this project. Those relying on the record documents are advised to obtain

to the best of my knowledge and belief.

R/W = RIGHT-OF-WAY

SAS = SANITARY SEWER

SD = STORM DRAIN

STA = STATION

STD = STANDARD

SW = SIDEWALK

= TELEPHONE

TA = TOP OF ASPHALT PAVEMENT

= TOP OF CONCRETE SLAB (PAVEMENT)

TAC = TOP OF ASPHALT CURB

TCC = TOP OF CONCRETE CURB

UE = UNDERGROUND ELECTRIC

UT = UNDERGROUND TELEPHONE

TS = TOP OF SIDEWALK

TW = TOP OF WALL

= WATER

WV = WATER VALVE

= WATER METER

TYP = TYPICAL

S = SLOPE

LEGEND

NEW CURB AND GUTTER & SIDEWALK

___ EX CURB AND GUTTER & SIDEWALK PROP FIRE HYDRANT independent verification of its accuracy before using it PROP WATER VALVE PROPERTY LINE EX SAS MANHOLE PROPISAS MANHOLE PROP WATER METER

(\$ 83'39'25" W) RECORD BEARING AND DISTANCES

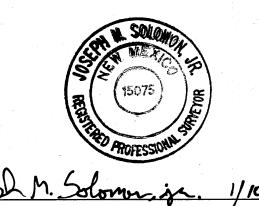
- SAS - PROPOSED SANITARY SEWER LINE __ EX_SAS_ EX_SANITARY SEWER LINE - 8" WL - PROPOSED WATER LINE

__ EX WL __ EX WATER LINE

N 00'07'27" W MEASURED BEARING AND DISTANCES

SURVEYOR'S CERTIFICATION

I, Joseph M. Solomon, Jr., a duly qualified Licensed Professional Surveyor under the laws of the State of New Mexico, do hereby certify; that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me or under my supervision; that the "as-built" information shown on these drawings was added by me or under my supervision; and that this "as-built" information is true and correct to the best of my knowledge and belief. I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.



GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #7 INCLUDING AMENDMENT 1) THROUGH MOST RECENT UPDATE (#7) AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS"

2. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY.

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

4. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR

5. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.

6. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

7. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION (IF REQUIRED BY CITY OF ALBUQUERQUE PUBLIC WORKS).

8. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA.

9. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.

10. CONTRACTOR SHALL COORDINATE WITH WATER SYSTEMS DIVISION (857–8200) SEVEN (7) SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. EXISTING CITY VALVES TO BE OPERATED BY CITY PERSONNEL ONLY.

11. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS.

12. CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.

13. PNM WLL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING

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

15. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

16. EXISTING UTILITY LINE LOCATION ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

17. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.

18. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH, BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.

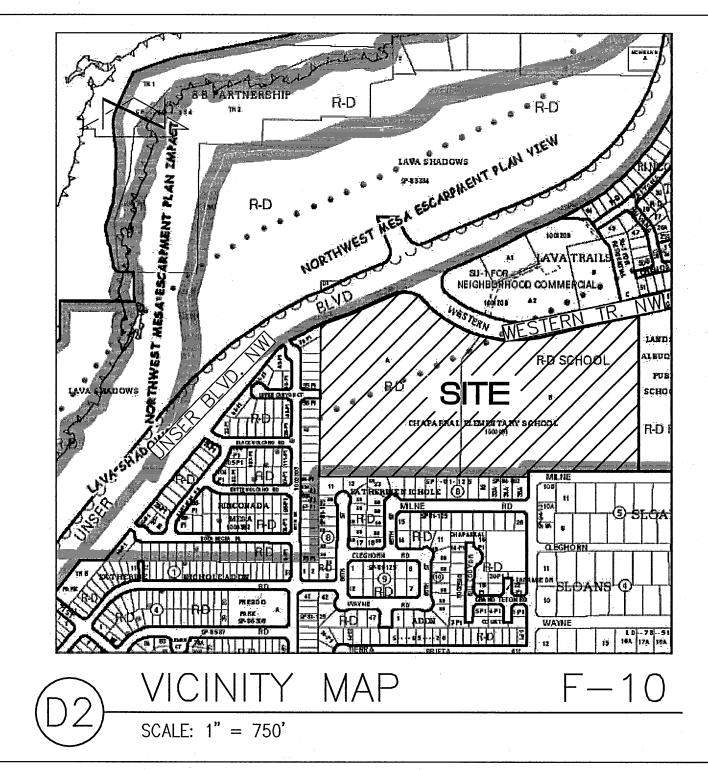
19. CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM OF EVERY FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

20. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

21. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

22. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.

23. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE



24. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF

25. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.

26. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.

27. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOURS OF

28. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.

29. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAW CUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.

30. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.

31. AT HIS OWN EXPENSE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER STANDARD SPECIFICATIONS.

32. ALL STREET STRIPING, ALTERED OR DESTROYED, SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.

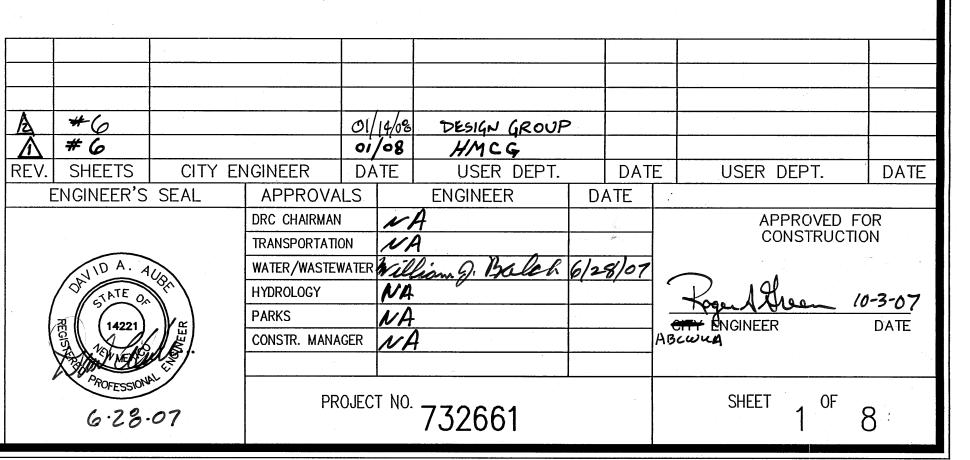
33. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT. WHETHER PERMANENT OR

34. ELECTRONIC MARKER DISKS (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.

35. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

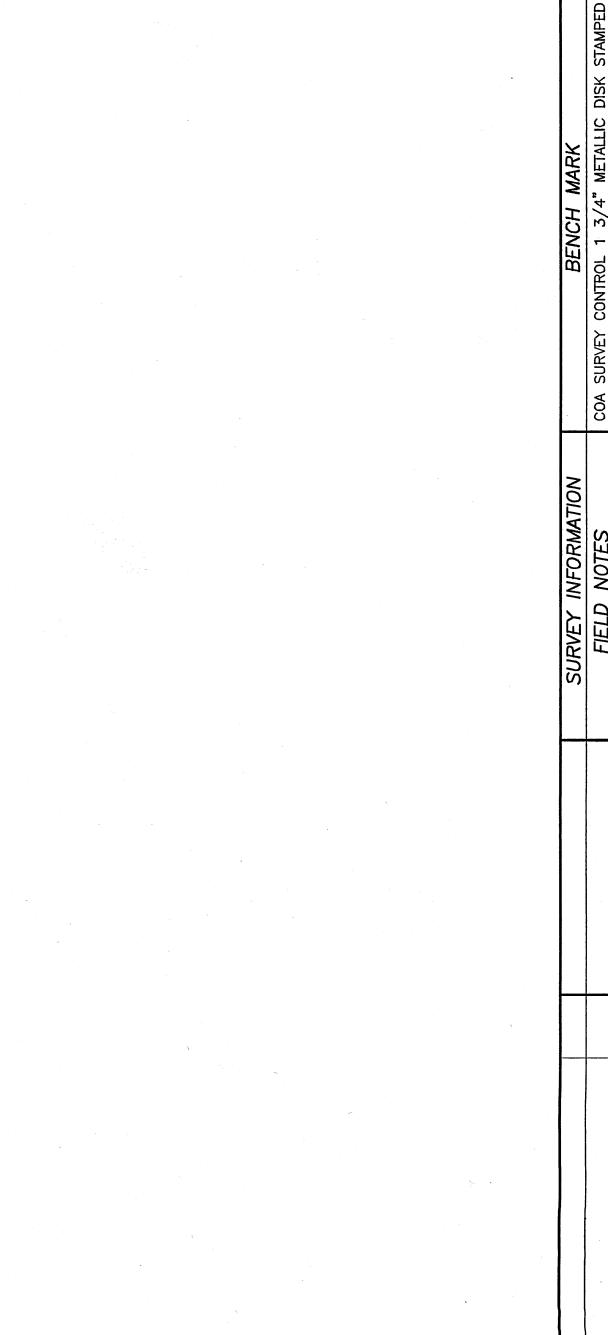
36. PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE PUBLIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.

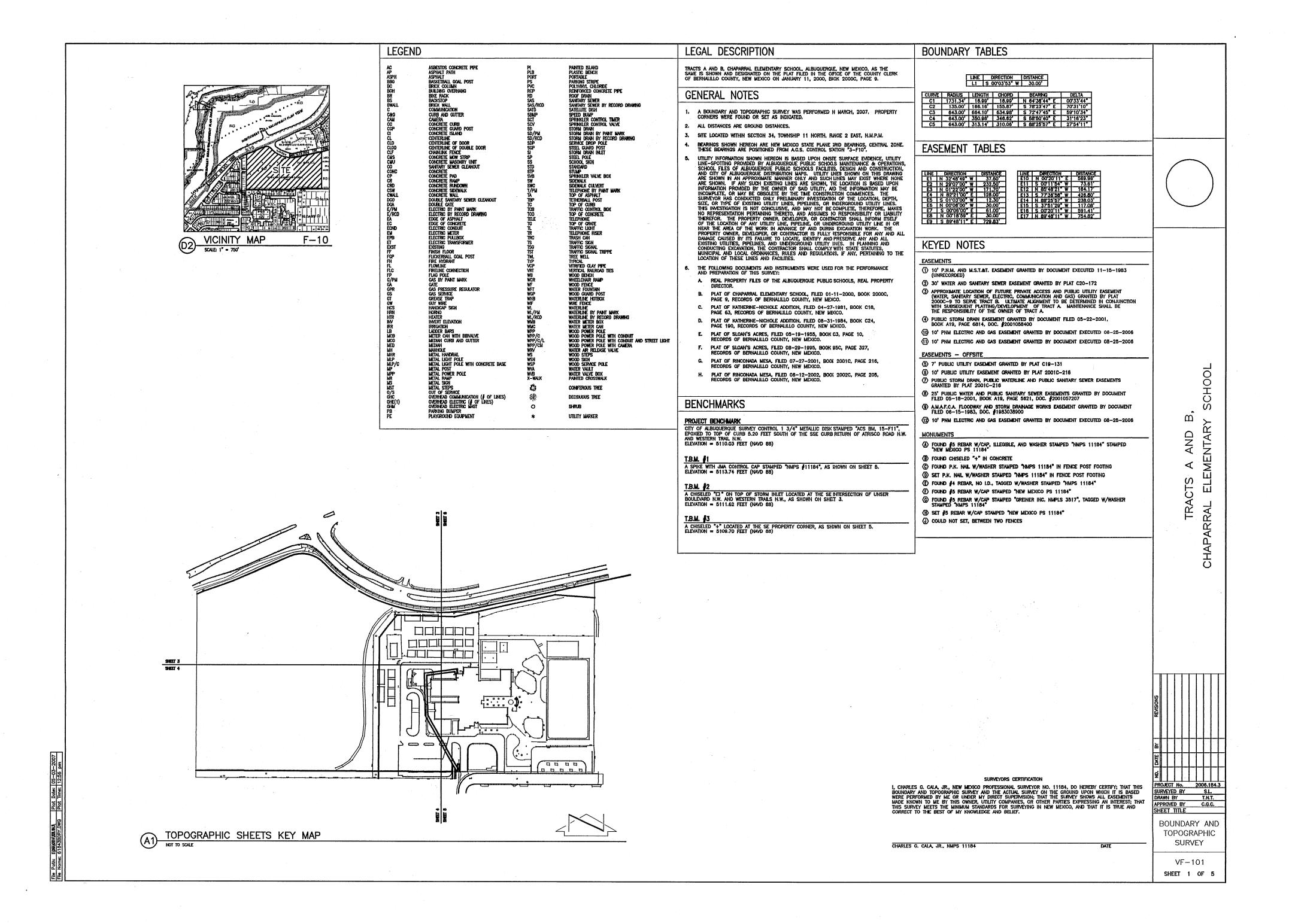
37. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.



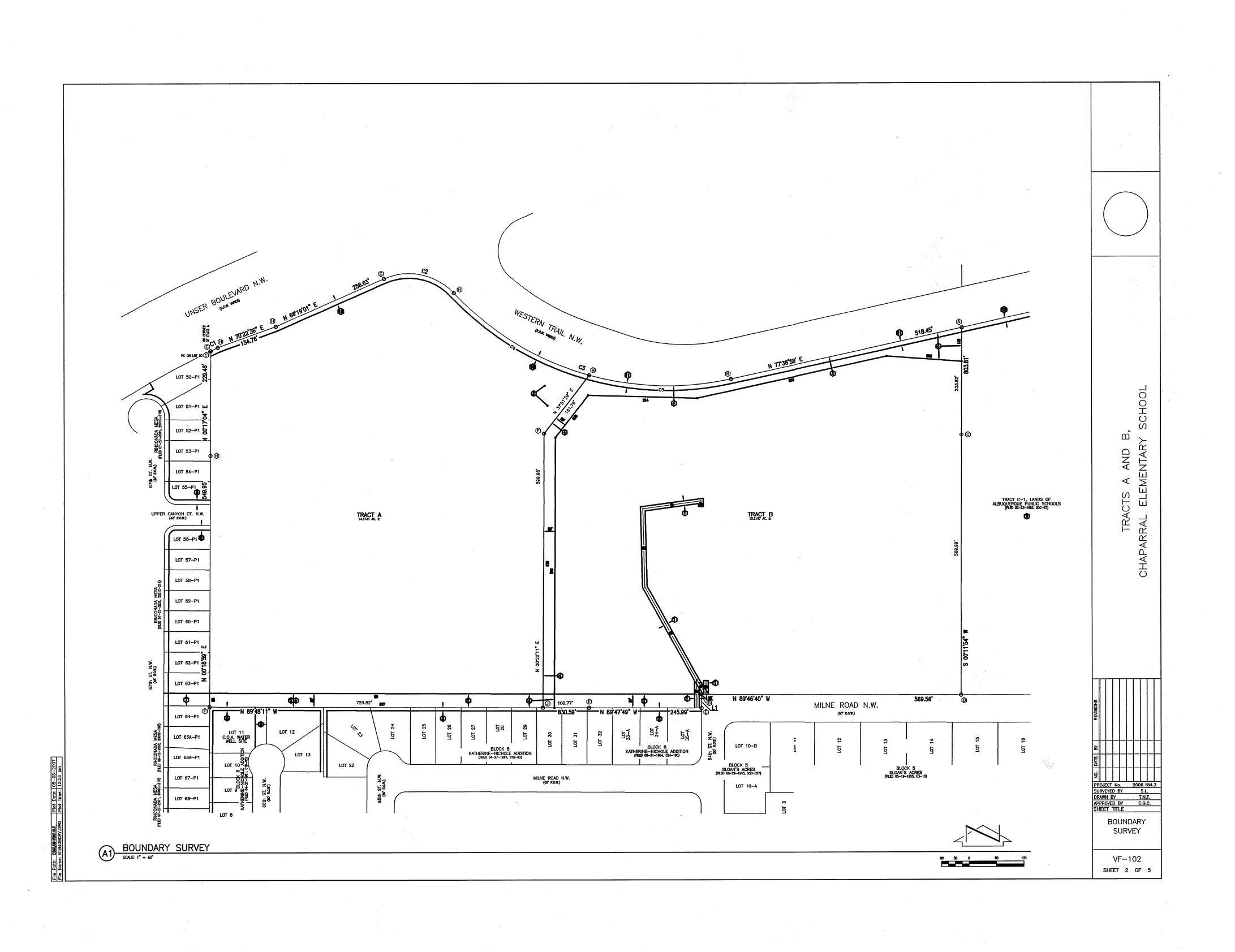
DECORDO DEMINICIONES

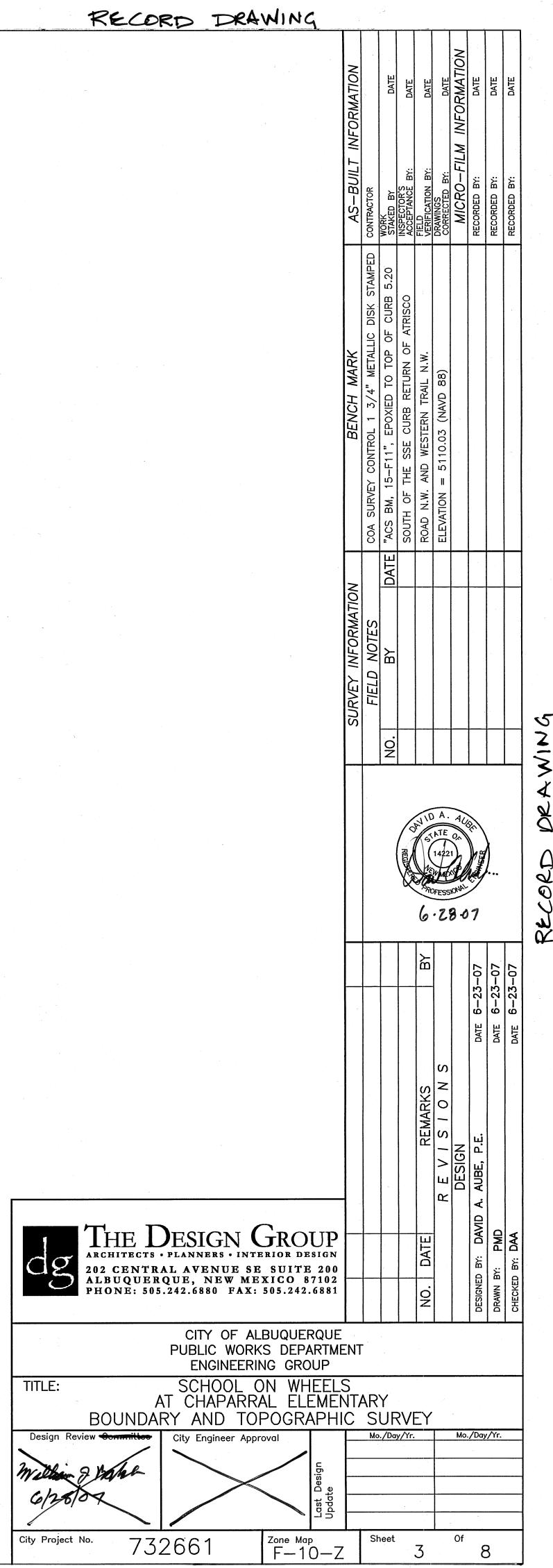
Zone Map F-10-Z





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THE DESIGN GROUP ARCHITECTS · PLANNERS · INTERIOR DESIGN 202 CENTRAL AVENUE SE SUITE 200 ALBUQUERQUE, NEW MEXICO 87102 PHONE: 505.242.6880 FAX: 505.242.6881			NO. DATE		DESIGNED BY: DAVID A.	DRAWN BY: PMD	снескер вт: DAA
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTME ENGINEERING GROUP	INT		·				
TITLE: SCHOOL ON WHEELS AT CHAPARRAL ELEMEN BOUNDARY AND TOPOGRAPHI	NTAR CS	URVI	-				
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William J. Valet							
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City Project No. 732661 Zone Map F-10-7	Sł	neet) ⁽ O	f E	3	





UTILITY LEGEND

----- PROPETY LINE

----- NEW EASEMENT

— <u>SAS</u> — EXISTING SANITARY SEWER

— WL — EXISTING WATER LINE

— EXISTING STORM DRAIN

——sas— PROPOSED SANITARY SEWER

---8" WL--- PROPOSED WATER LINE

——sp—— PROPOSED STORM DRAIN

PROPOSED VALVE

PROPOSED WATER METER

PROPOSED HYDRANT

PROPOSED SANITARY SEWER MANHOLE

PROPOSED STORM DRAIN

PUBLIC WATERLINE TO BE CONSTRUCTED FROM PUBLIC WORK ORDER PLANS. CONSTRUCTION NOTES RELATED TO THE PRIVATE SANITARY SEWER LINE CONSTRUCTION ARE SHOWN ON THIS PAGE TO ALLOW FOR IDENTIFICATION OF CONFLICTS AND FOR REFERENCE ONLY. SEE PLANS FOR PORTABLE INSTALLATION FOR CONSTRUCTION NOTES RELATED TO SANITARY SEWER CONSTRUCTION.

RESTRAINED JOINT LENGTHS, $L_{\rm T}$, for tees, (FT.) all joints at the tee must be restrained. BRANCH

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIAS

DEPTH OF BURY 3.0 FT. MINIMUM FACTOR OF SAFETY 1.25 SOIL TYPE:

GM/SM - SILTY GRAVELS AND SILTY SANDS, GRAVEL-SAND-SILT MIXTURES.

TEST PRESSURE TRENCH TYPE 4:

PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH MINIMUM: BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.

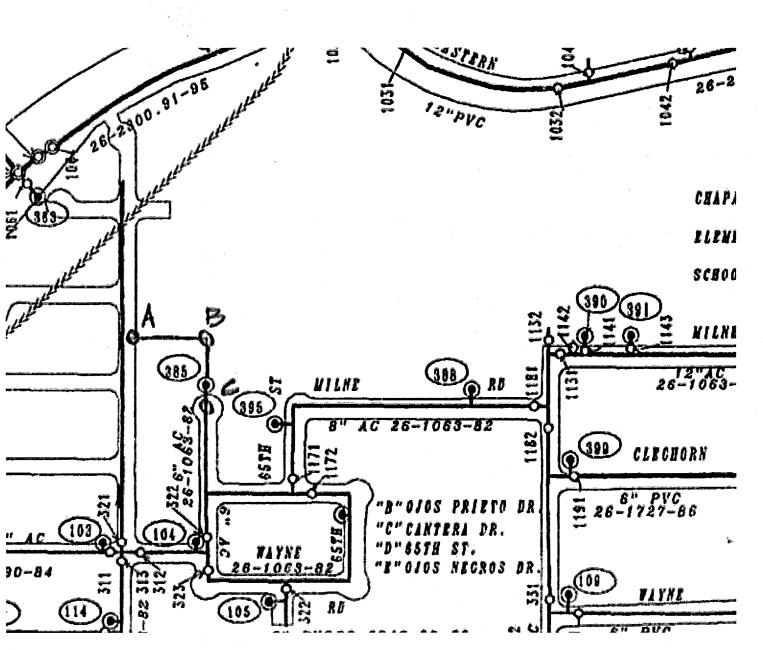
> RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS

RESTRAINED JOINT LENGTHS, L., FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)								
SIZE	HORZ. BENDS				VALVES A			
	3 0.	45"	22 1/2*	-11 1/4	DEAD ENDS			
12	30	12	6	3				
10	26	11	5	3	85 72			
8	22	9	4	2	60			
6	17	7	3	2	48			
4	12	5	2	1	32			

RESTRAINED JOINT LENGTHS, L _T , FOR REDUCERS, (FT.) MINIMUM UNOBSTRUCTED, STRAIGHT—RUN LENGTH: RESTRAIN EITHER LARGE PIPE, OR SMALL PIPE.							
SIZE	LARGE	SMALL	SIZE	LARGE	SMALL		
12x10	25	30	10x6	44	73		
12x8	45	68	10x4	58	141		
12x6	62	121	8x6	25	33		
12x4	74	213	8×4	43	83		
10×8	24	30	6×4	24	35		

NOTES:

- 1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S
- 3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- 4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

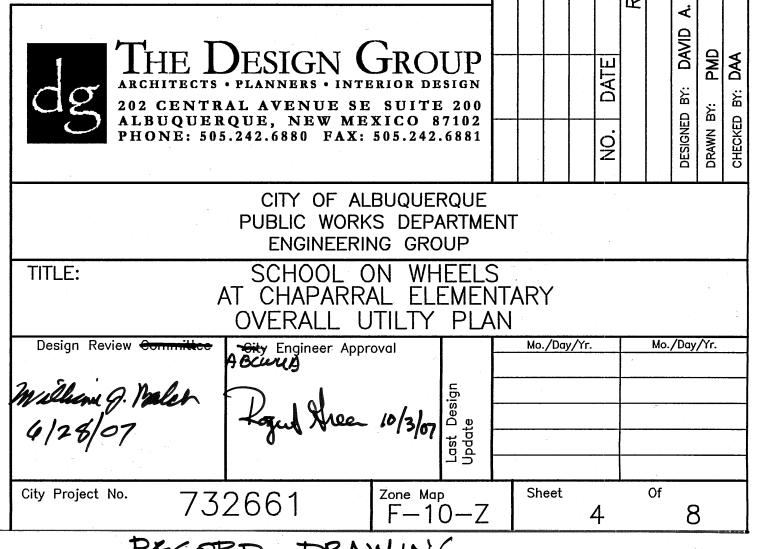


WATER SHUT OFF PLAN

SCALE: NOT TO SCALE

REQUIRED VALVES SHUT OFF TO ISOLATE WEST SIDE ARE VALVES "A", AND "C". VALVE "C" IS DESIGNATED F10-01167 AND IS LOCATED AT THE NORTH END OF 66TH. THERE IS AN AIR RELIEF VALVE "B" DESIGNATED F10-00165 WITHIN THE LINE SECTION THAT WILL BE SHUT OFF.

REQUIRED VALVES SHUT OFF TO ISOLATE EAST SIDE OF SITE # 1132 IN THE DRIVE WAY FOR CHAPARRAL AT MILNE ROAD.



DATE 6-23-07

DATE 6-23-07

DATE 6-23-07

