

2011-08-22 10:13:13

PUBLIC IMPROVEMENT PLANS FOR WALMART SUPERCENTER #824-06 8000 ACADEMY ROAD N.E. ALBUQUERQUE, NEW MEXICO AUGUST 22, 2011

PREPARED FOR:
ALBUQUERQUE, NEW MEXICO
WALMART STORES, INC.
2001 S.E. 10th STREET, SWDC
BENTONVILLE, ARKANSAS 72716-0550
CONTACT: DANI ZIEM
PHONE: (479) 204-0425

PREPARED BY:
ZIA ENGINEERING & ENVIRONMENTAL
CONSULTANTS, LLC
755 S. TELSHOR BLVD., SUITE F-201
LAS CRUCES, NEW MEXICO 88011
CONTACT: FRANCISCO X. URUETA, P.E.
PHONE: (575) 532-1526
FAX: (575) 532-1587

SHEET INDEX

SHEET NO.	TITLE
1.	COVER SHEET
2.	PLAT OF TRACT B-1-A SYCAMORE PLAZA (FOR REFERENCE ONLY)
3.	UTILITY MASTER PLAN
4.	UTILITY ENLARGEMENT DETAILS
5.	UTILITY PLAN AND PROFILE
6.	UTILITY DETAILS

I, FRANCISCO X. URUETA, NMPE 19443, OF THE FIRM ZIA ENGINEERING & ENVIRONMENTAL CONSULTANTS, LLC, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 02-02-2012 THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY LARRY MEDRANO, NMPS 11993 OF THE FIRM PRECISION SURVEYS, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON FEBRUARY 1, 2013 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR FINAL APPROVAL. PUBLIC IMPROVEMENTS CITY OF ALBUQUERQUE PROJECT NUMBER 455581.

NO EXCEPTIONS, NOR DEFICIENCIES WERE REQUESTED OR NOTED (OBSERVED) DURING MY SITE VISIT.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE PUBLIC IMPROVEMENTS ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Francisco X. Urueta
FRANCISCO X. URUETA NMPE 19443
5-16-13
DATE

AS BUILT CERTIFICATION

I, LARRY MEDRANO, DO HEREBY ATTEST TO THE FACT THAT THE AS BUILT INFORMATION SHOWN HEREON IS THE RESULT OF A FIELD SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Larry W. Medrano
LARRY W. MEDRANO
NEW MEXICO PROFESSIONAL
LAND SURVEYOR NO. 11993
PRECISION SURVEYS, INC.
PO BOX 90636
ALBUQUERQUE, NEW MEXICO 87199
(505) 856-5700

FLOODPLAIN NOTE:

PROPERTY IS LOCATED IN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NO. 35001C0143G, EFFECTIVE DATE SEPTEMBER 26, 2008.

BASIS OF ELEVATION:

ELEVATIONS BASED ON CITY OF ALBUQUERQUE BENCHMARK, STAMPED "ACS BM, 15-E20", NAVD 1988 ELEVATION, 5504.822 FEET, LOCATED ON TOP OF CONCRETE BASE OF STREET LIGHT, WWW QUADRANT OF ACADEMY ROAD N.E. AND MOON STREET N.E., ON SW CORNER OF SAID CONCRETE BASE.

BASIS OF BEARINGS:

BASIS OF BEARINGS: REPLAT OF TRACT B SYCAMORE PLAZA RECORDED, DECEMBER 23, 1992 VOL. 82C, FOLIO 272, PER MONUMENTS FOUND HEREON.

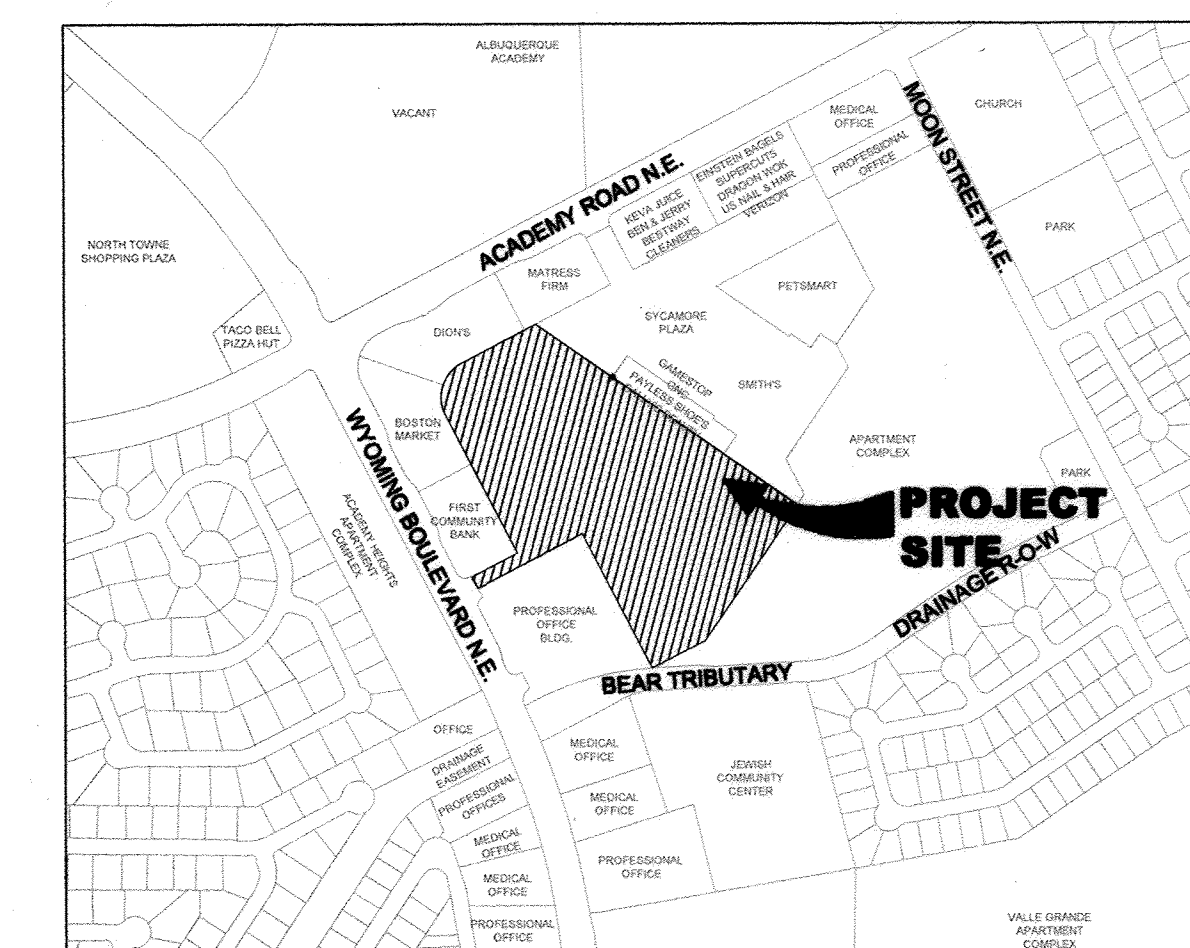
STIPULATION FOR REUSE OR ALTERATION:

THESE DRAWINGS ARE THE INSTRUMENT OF SERVICE OF ZIA ENGINEERING AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE REFERENCED PROJECT FOR WHICH THESE DRAWINGS WERE CREATED.

ALERT TO CONTRACTOR:

ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

VICINITY MAP



VICINITY MAP
SCALE: 1" = 500'
ZONE ATLAS INDEX MAP NO.
E19, E20, F19 AND F20

GENERAL NOTES

- ALL WORK DETAILED IN THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE NO. 7, INCLUDING AMENDMENT 1.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTIONS SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTORS SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, NM ONE CALL SYSTEMS, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCE, RULES REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 7.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE PER COA STD DWG #2415A.
- SUPPLEMENTAL SPECIFICATION: ALL BACKFILL FOR WATER LINE AND SANITARY SEWER LINE TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- ALL SANITARY SEWER LINE MATERIALS SHALL BE PVC SDR-35 PIPE.
- ALL FITTING ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NO LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS IF 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 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE #7.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATE WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING --- EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE OR NEAR THE AREA OF THE WORK. IN ADVANCE OF AND DURING EXCAVATION WORK, THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGED CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE PARKING LOT SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF PERFORMED THERMO-PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTIONS 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- ALL WATER VALVE BOXES AND MANHOLES IN THE PARKING LOT CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT <http://abwcua.org/content/view/full/463/729/>.
- CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAVEMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWING. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
33. RCP ELLIPTICAL PIPE SHALL HAVE GAVE GASKETED.

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
Anthony J. ...
DATE: 05/24/13

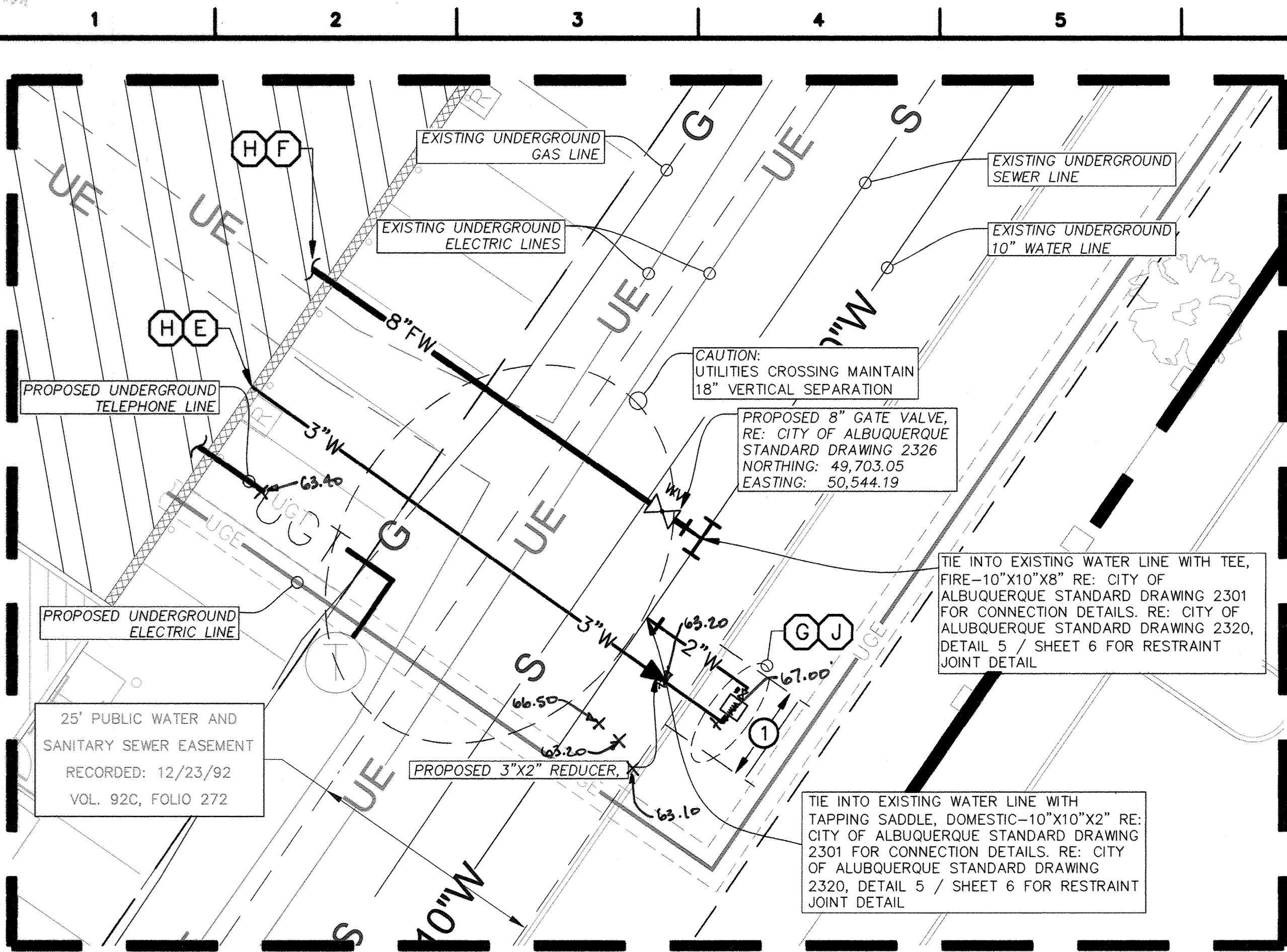
RECORD DRAWINGS

DRB NO. 1000606

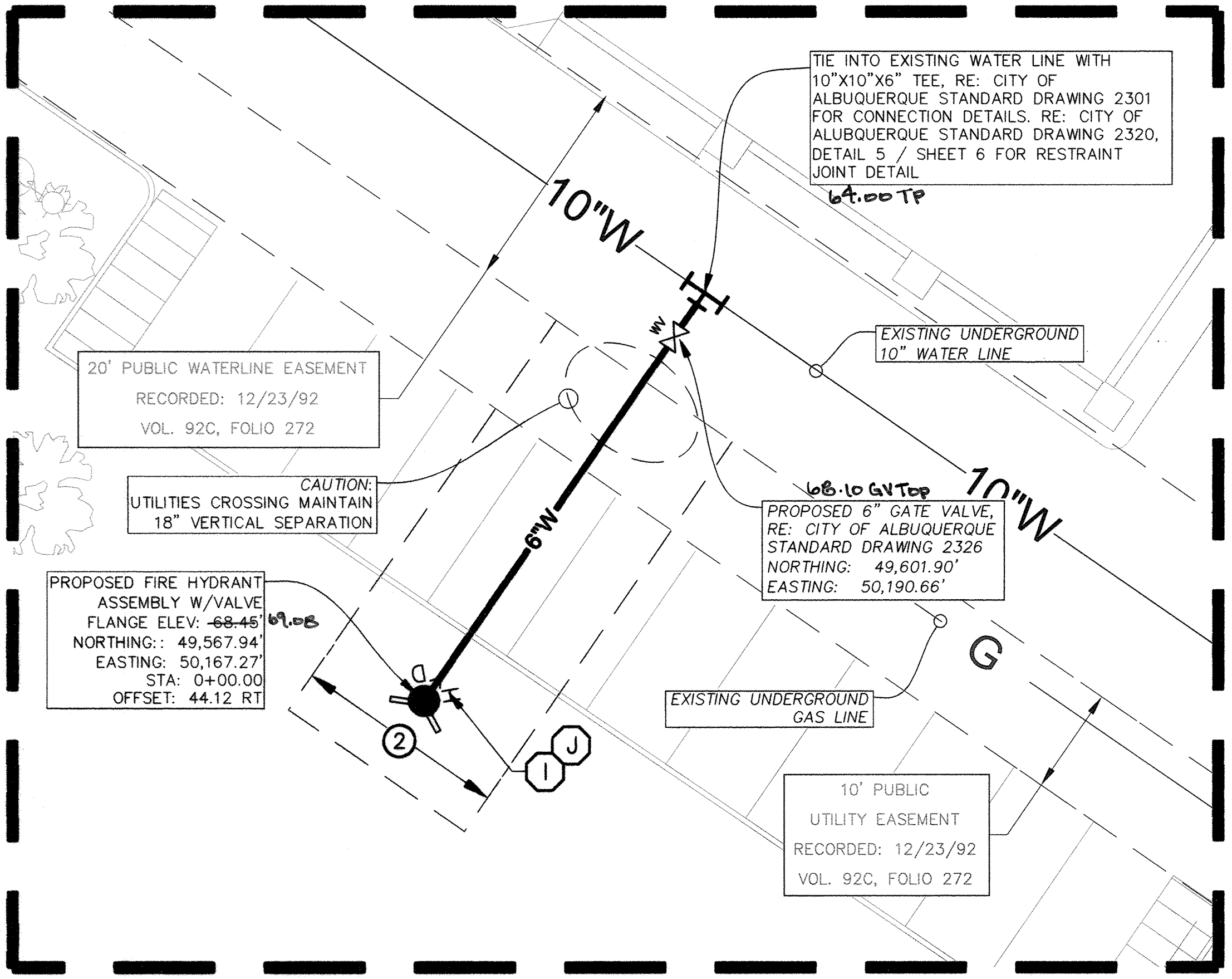
Zia Engineering & Environmental
Consultants, LLC
755 S. Telsor Blvd., Suite F-201
Las Cruces, New Mexico 88011
Phone: (575) 532-1526
Fax: (575) 532-1587
Website: <http://www.ziaec.com/>

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1 WATER SERVICE LINE ENLARGEMENT DETAIL
SCALE: 1"=10'



3 FIRE HYDRANT ENLARGEMENT DETAIL
SCALE: 1"=10'

UTILITY NOTES

1. CONSTRUCT SAS SERVICES PER CITY OF ALBUQUERQUE STANDARD DRAWING #2125.
2. CONSTRUCT ALL SINGLE AND DOUBLE SERVICES PER CITY OF ALBUQUERQUE STANDARD DRAWING #2361 AND #2363.
3. RE: DETAIL 5 / SHEET 6 FOR JOINT RESTRAINT LENGTH CALCULATIONS.
4. CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS AND LENGTHS PER CITY OF ALBUQUERQUE STANDARD DRAWING #2340.
5. RE: CITY OF ALBUQUERQUE STANDARD DRAWING #2328, FOR VALVE RING AND COVER DETAIL, RE: DETAIL 6 / SHEET 6 FOR VALVE BOX DETAIL.
6. INSERT NEW GATE VALVES ON EXISTING WATERLINES PER CITY OF ALBUQUERQUE STANDARD DRAWING #2333.

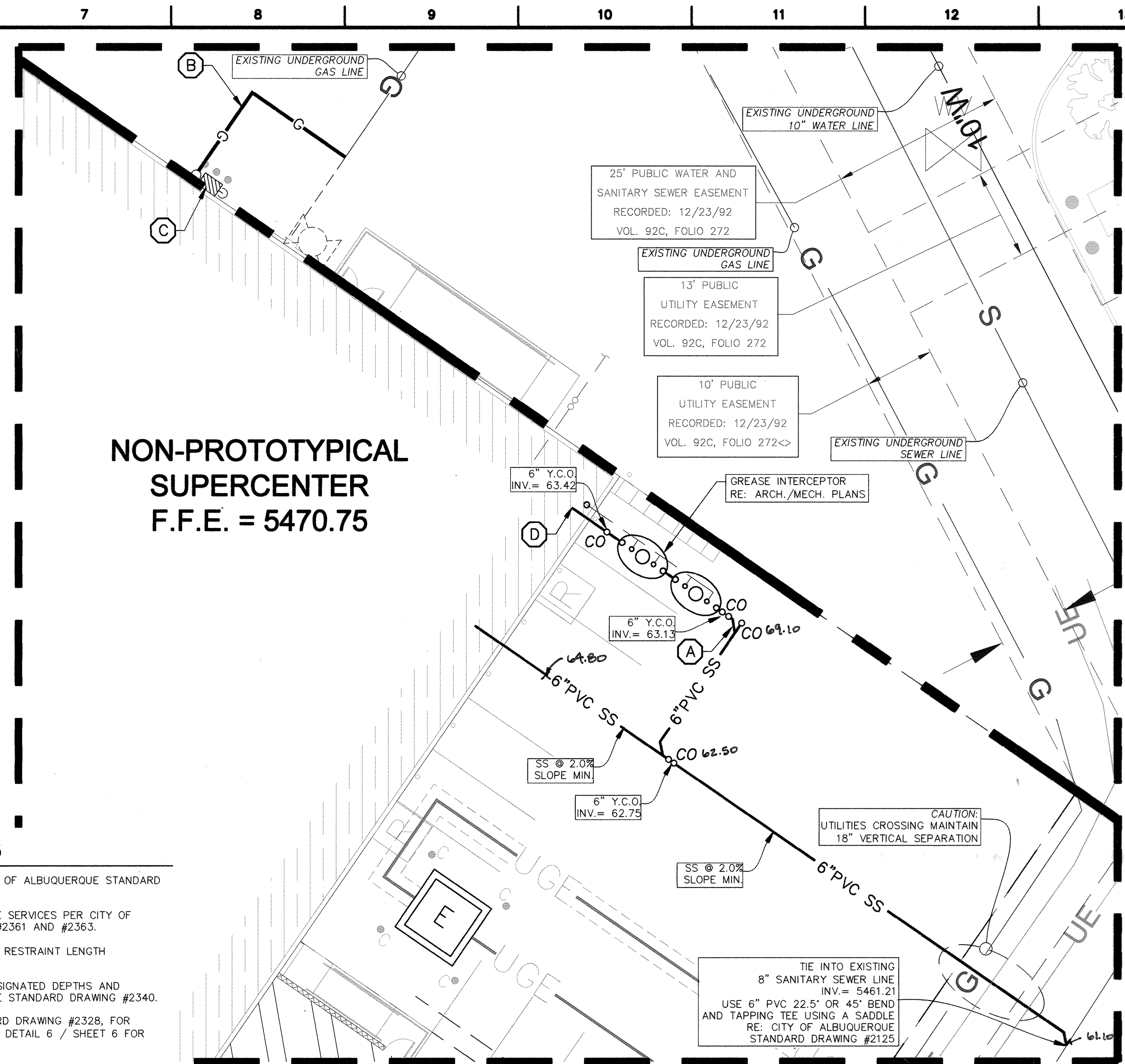
UTILITY LEGEND

- (A) 6" SANITARY SEWER LATERAL AT MINIMUM 2.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
- (B) CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE EXTENSION AND INSTALLATION OF ADDITIONAL SERVICE LINE.
- (C) PROPOSED GAS ENTRY. REPLACE EXISTING GAS METER WITH NEW GAS METER. CONTRACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AT METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR RECONNECTING OF INDIVIDUAL METER.
- (D) 4" GRAY WATER SEWER LATERAL AT MINIMUM 1.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
- (E) 3" DOMESTIC WATER LINE ENTRY WITH METER PER ALBUQUERQUE PUBLIC WORKS REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION/EXTENSION OF ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH ALBUQUERQUE, BERNALILLO COUNTY WATER UTILITY AUTHORITY.
- (F) SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO RELOCATE OR EXTEND ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC., MEETING WATER COMPANY SPECIFICATIONS. BACK FLOW PREVENTER WILL BE LOCATED INSIDE OF BUILDING.

STIPULATION FOR REUSE OR ALTERATION:
THESE DRAWINGS ARE THE INSTRUMENT OF SERVICE OF ZIA ENGINEERING AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE REFERENCED PROJECT FOR WHICH THESE DRAWINGS WERE CREATED.

FLOODPLAIN NOTE:
PROPERTY IS LOCATED IN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NO. 35001C0143G, EFFECTIVE DATE SEPTEMBER 26, 2008.

NON-PROTOTYPICAL
SUPERCENTER
F.F.E. = 5470.75



2 GAS AND SEWER SERVICE LINE ENLARGEMENT DETAIL
SCALE: 1"=10'

UTILITY EASEMENT LEGEND

- ① 10' X 10' PROPOSED PUBLIC WATER EASEMENT.
- ② 20' PROPOSED PUBLIC WATER EASEMENT.

RECORD DRAWINGS

Zia Engineering & Environmental Consultants, LLC
755 S. Telshor Blvd., Suite F-201
Las Cruces, New Mexico 88011
Phone: (575) 532-1526
Fax: (575) 532-1587
Website: <http://www.ziaeecc.com/>

NEW MEXICO ONE CALL
STATEWIDE
1-800-321-ALERT(2537)
www.nmonecall.org
Call two working days before you dig.

ALERT TO CONTRACTOR:

PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEC AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEC AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

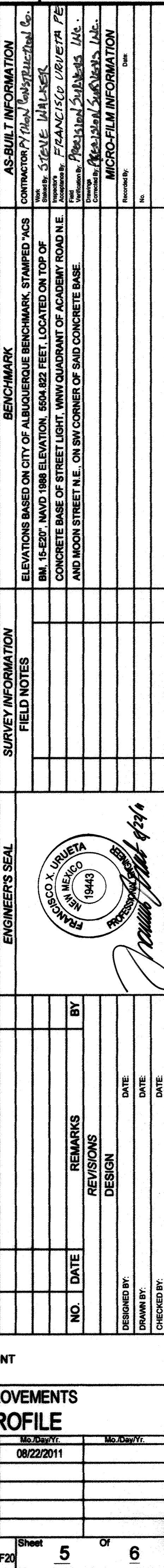
BASIS OF ELEVATION:

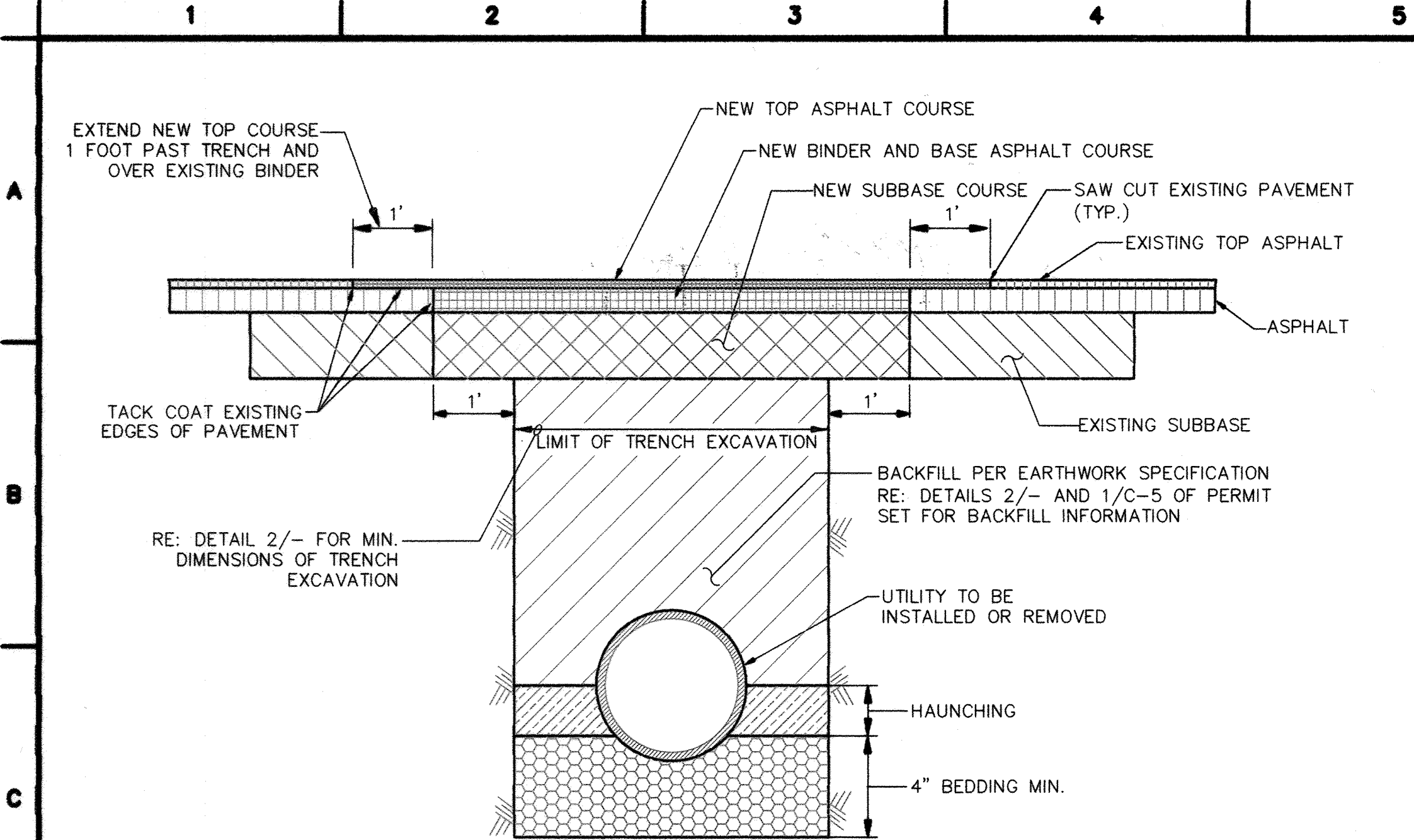
ELEVATIONS BASED ON CITY OF ALBUQUERQUE BENCHMARK, STAMPED "ACS BM, 15-E20", NAVD 1988 ELEVATION, 5504.822 FEET, LOCATED ON TOP OF CONCRETE BASE OF STREET LIGHT, WNW QUADRANT OF ACADEMY ROAD N.E. AND MOON STREET N.E., ON SW CORNER OF SAID CONCRETE BASE.

BASIS OF BEARINGS:

BASIS OF BEARINGS: REPLAT OF TRACT B SYCAMORE PLAZA RECORDED: DECEMBER 23, 1992 VOL. 92C, FOLIO 272, PER MONUMENTS FOUND HEREON.

AS-BUILT INFORMATION CONTRACTOR: P. J. HALL CONSULTANTS, LLC DATE: 08/22/2011	
BENCHMARK ELEVATIONS BASED ON CITY OF ALBUQUERQUE BENCHMARK, STAMPED "ACS BM, 15-E20", NAVD 1988 ELEVATION, 5504.822 FEET, LOCATED ON TOP OF CONCRETE BASE OF STREET LIGHT, WNW QUADRANT OF ACADEMY ROAD N.E. AND MOON STREET N.E., ON SW CORNER OF SAID CONCRETE BASE.	
SURVEY INFORMATION FIELD NOTES:	
ENGINEER'S SEAL FRANCISCO X. LURUETA PROFESSIONAL ENGINEER STATE OF NEW MEXICO 19443 EXPIRATION DATE: 08/21/14	
REVISIONS NO. DATE 1 08/22/2011	DESIGN DATE: 08/22/2011 DRAWN BY: [Signature] CHECKED BY: [Signature]
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
WALMART SUPERCENTER IMPROVEMENTS MASTER UTILITY PLAN	
Design Review Committee APPROVE SEP 12 2011 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE FEB 02 2012 CITY ENGINEER
City Project No. 455581	Zone Map No. F19, E20, F19 AND F20 Sheet 4 of 6



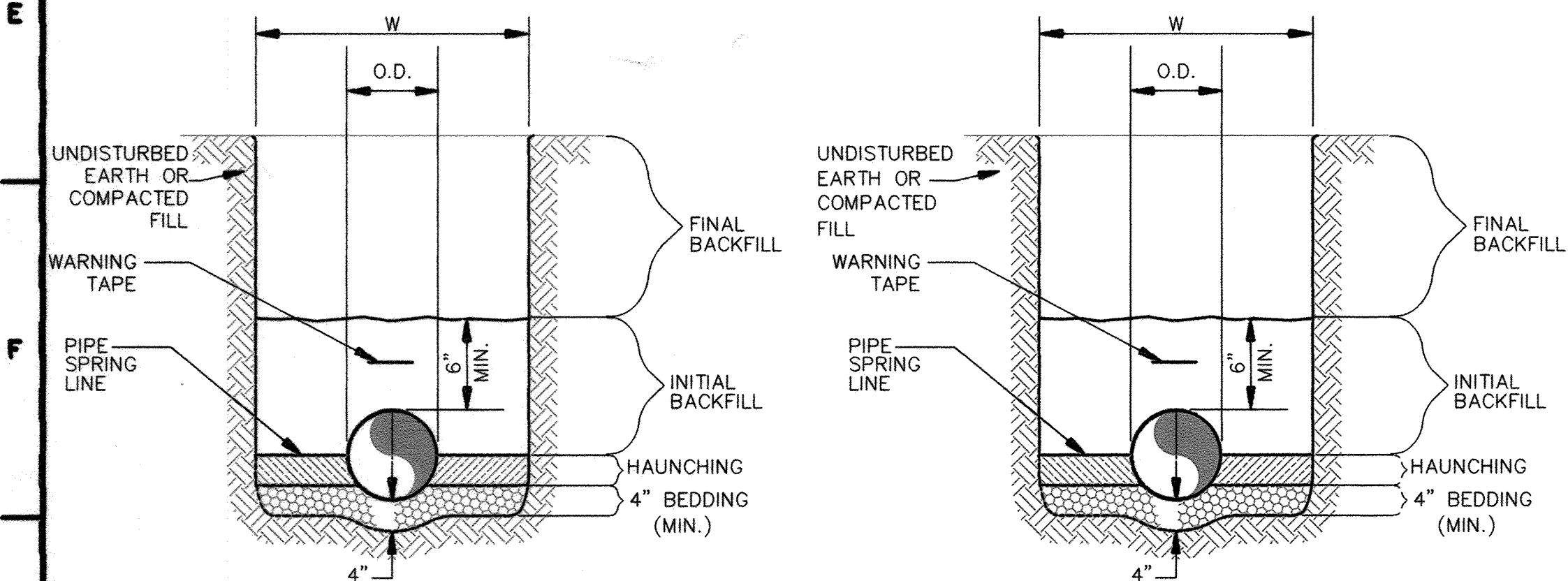


NOTES:

- ASPHALT CONCRETE TO COMPLY WITH COA STD. SPEC. FOR PUBLIC WORKS CONSTRUCTION 116 (LATEST EDITION)
- AGGREGATE BASE TO COMPLY WITH COA STD. SPEC. FOR PUBLIC WORKS CONSTRUCTION 302 (LATEST EDITION)
- TACK COAT TO COMPLY WITH COA STD. SPEC. FOR PUBLIC WORKS CONSTRUCTION 112 (LATEST EDITION)
- CONTRACTOR MUST USE TRENCH BOX WITH TRENCH BRACING PER OSHA REQUIREMENTS.
- FOR COMPACTION SPECIFICATIONS RE: DETAIL 3/ THIS SHEET

PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	≥ O.D. OF PIPE + 18"

1 REMOVING UTILITY IN EXISTING PAVEMENT TRENCH DETAIL
DOWNLOADED FROM WAL-MART WEBSITE ON MARCH 09, 2011. N.T.S.



WATER LINE

N.T.S.

SANITARY SEWER

N.T.S.

PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	≥ O.D. OF PIPE + 18"

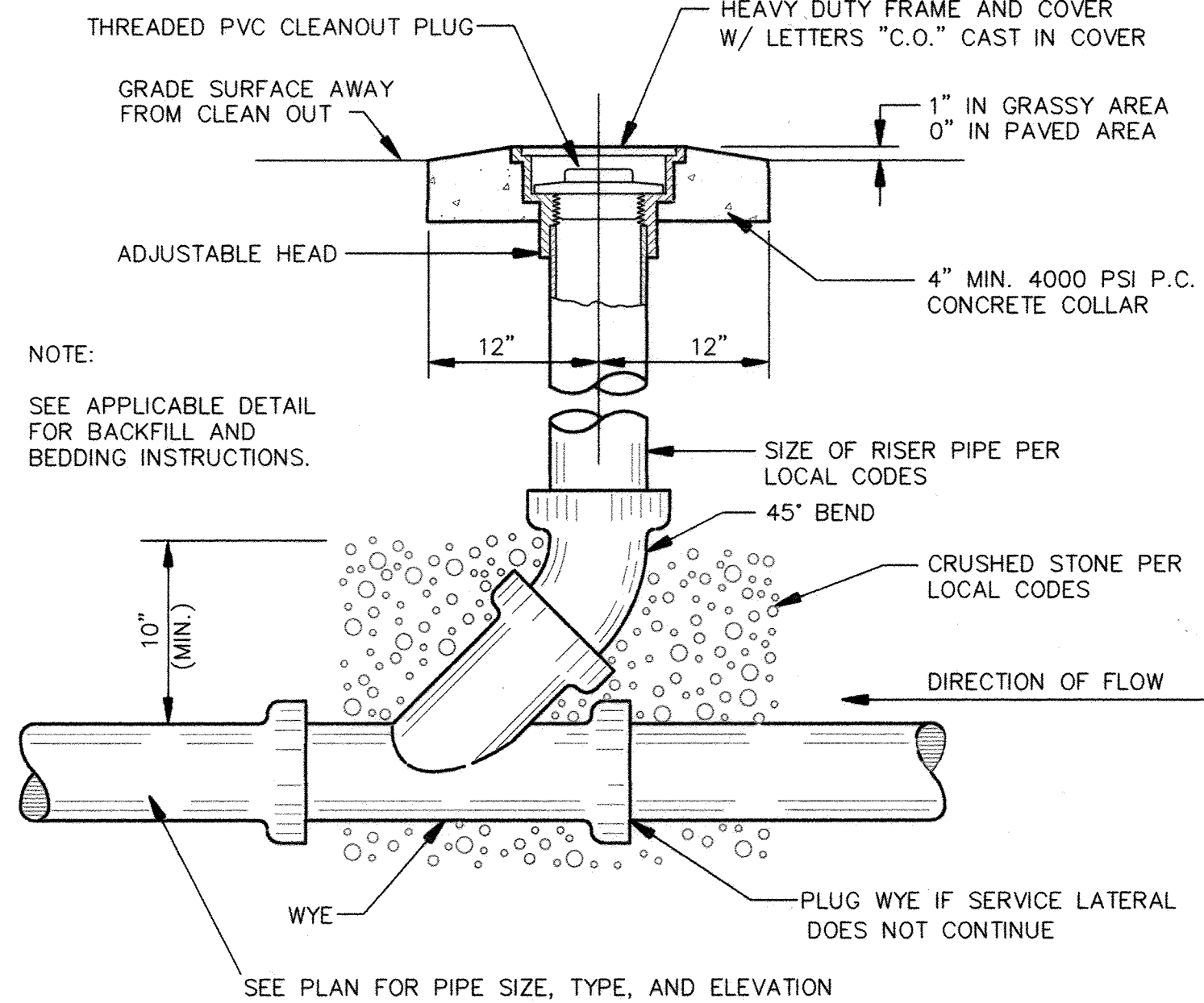
GENERAL NOTES:

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 95% MODIFIED PROCTOR.
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO MODIFIED 95% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 95% MODIFIED PROCTOR, WITH A MOISTURE CONTENT OF +/- 2%.
- INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 95% MODIFIED PROCTOR, WITH A MOISTURE CONTENT OF +/- 2%.
- FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
- FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% MODIFIED PROCTOR WITH A MOISTURE CONTENT OF +/- 2%.
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 1557. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

2 UTILITY TRENCH AND BEDDING
DOWNLOADED FROM WAL-MART WEBSITE ON MARCH 09, 2011. N.T.S.

COMPACTION REQUIREMENTS			
MATERIAL TYPE AND LOCATION	PER MODIFIED PROCTOR TEST ASTM D-1557		
	MINIMUM COMPACTION REQUIREMENTS (%)	RANGE OF MOISTURE CONTENT FOR COMPACTION	
		MINIMUM	MAXIMUM
ENGINEERED FILL BENEATH PAVEMENTS	95	-2%	+2%
BENEATH PAVEMENTS	95	-2%	+2%
AGGREGATE BASE (SLABS-PAVEMENTS)	95	-2%	+2%

3 COMPACTION SPECIFICATIONS
N.T.S.



4 SANITARY SEWER CLEAN-OUT
DOWNLOADED FROM WAL-MART WEBSITE ON MARCH 09, 2011. N.T.S.

HORIZONTAL BEND RESTRAINT LENGTH CALCULATIONS

PIPE MATERIAL	SOIL TYPE	SAFETY FACTOR	TRENCH TYPE	DEPTH OF BURY	TEST PRESSURE	NOMINAL SIZE	BEND ANGLE	RESTRAINT LENGTH
PVC	SC	2.0 TO 1	5	3'	150 PSI	6"	90°	20 FT
PVC	SC	2.0 TO 1	5	3'	150 PSI	6"	45°	9 FT
PVC	SC	2.0 TO 1	5	3'	150 PSI	3"	45°	5 FT

LENGTHS BASED ON: EBAA IRON RESTRAINT DESIGN SOFTWARE.

TEE RESTRAINT LENGTH CALCULATIONS

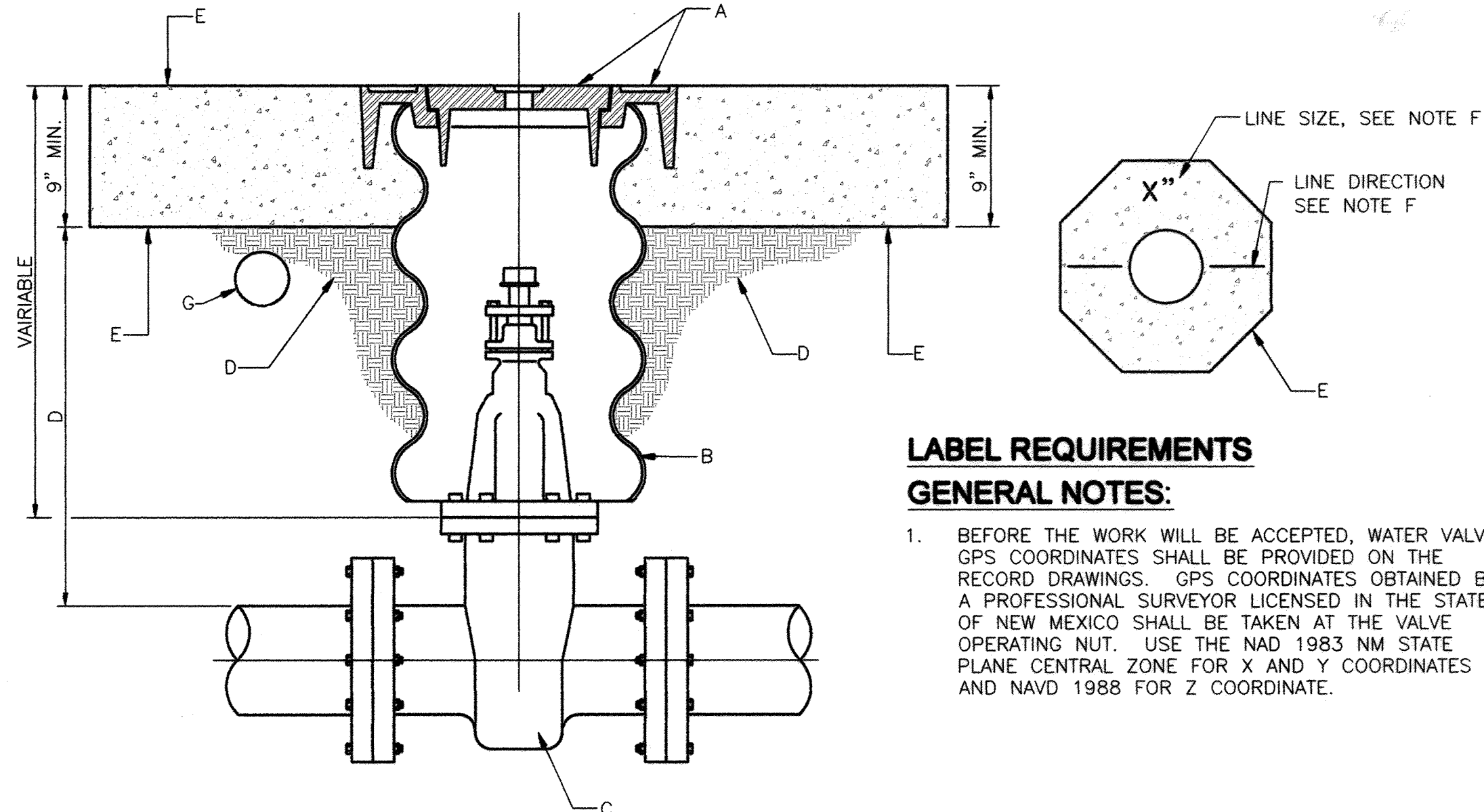
PIPE MATERIAL	SOIL TYPE	SAFETY FACTOR	TRENCH TYPE	DEPTH OF BURY	TEST PRESSURE	NOMINAL SIZE	BRANCH SIZE	LENGTH ALONG RUN	RESTRAINT LENGTH
PVC	SC	2.0 TO 1	5	3'	150 PSI	6"	6"	10 FT	1 FT
PVC	SC	2.0 TO 1	5	3'	150 PSI	10"	6"	4 FT	1 FT
PVC	SC	2.0 TO 1	5	3'	150 PSI	10"	8"	4 FT	33 FT
PVC	SC	2.0 TO 1	5	3'	150 PSI	10"	6"	3 FT	14 FT

LENGTHS BASED ON: EBAA IRON RESTRAINT DESIGN SOFTWARE.

NOTES:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- 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 EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
- 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 ALBUQUERQUE, BERNALILLO COUNTY WATER UTILITY AUTHORITY.

5 JOINT RESTRAINT LENGTH TABLES AND NOTES
CITY OF ALBUQUERQUE STANDARD DRAWING NO. 2320 OBTAINED ON APRIL 20, 2011. N.T.S.



LABEL REQUIREMENTS

GENERAL NOTES:

- BEFORE THE WORK WILL BE ACCEPTED, WATER VALVE GPS COORDINATES SHALL BE PROVIDED ON THE RECORD DRAWINGS. GPS COORDINATES OBTAINED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF NEW MEXICO SHALL BE TAKEN AT THE VALVE OPERATING NUT. USE THE NAD 1983 NM STATE PLANE CENTRAL ZONE FOR X AND Y COORDINATES AND NAVD 1988 FOR Z COORDINATE.

GENERAL NOTES:

- VALVE BOX RING AND COVER PER C.O.A. STD. DWG. 2328.
- 12" DIAMETER POLYMER COATED STEEL PIPE CMP.
- NEW OR EXISTING VALVE.
- COMPACTED BACKFILL. SOIL OR BASE COURSE MATERIAL (95% COMPACTION MODIFIED PROCTOR). SEE SECTION 701.
- CONCRETE COLLAR PER COA STANDARD DRAWING 2461. f'c = 4000 psi.
- TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3/8" IN HEIGHT. INSTALL FIRE LINE RING AND COVER ON FIRE LINES PER COA STANDARD DRAWING 2329.
- ELECTRONIC MARKER DEVICE (EMD), SEE COA STANDARD SPECIFICATION SECTION 170.

6 MODIFIED WATER VALVE BOX
CITY OF ALBUQUERQUE STANDARD DRAWING NO. 2328 OBTAINED ON APRIL 20, 2011. N.T.S.

RECORD DRAWINGS

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: WALMART SUPERCENTER IMPROVEMENTS UTILITYDETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 12 2011 DESIGN REVIEW COMMITTEE	APPROVED FEB 02 2012 CITY ENGINEER	08/22/2011	
City Project No.	455581	Sheet	6
		Of	6

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