

CONSTRUCTION PLANS FOR  
FRATERNAL ORDER  
OF POLICE  
ONSITE CONSTRUCTION  
ALBUQUERQUE  
BERNALILLO COUNTY, NEW MEXICO  
2007

*FW*

INDEX TO DRAWINGS

1. TITLE SHEET
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3. SITE PLAN
4. GRADING PLAN
5. UTILITY PLAN
6. OFFSITE DRAINAGE PLAN AND PROFILE
7. ONSITE SAS PLAN AND PROFILE
8. ONSITE WATERLINE PLAN AND PROFILE

RECORD DRAWING

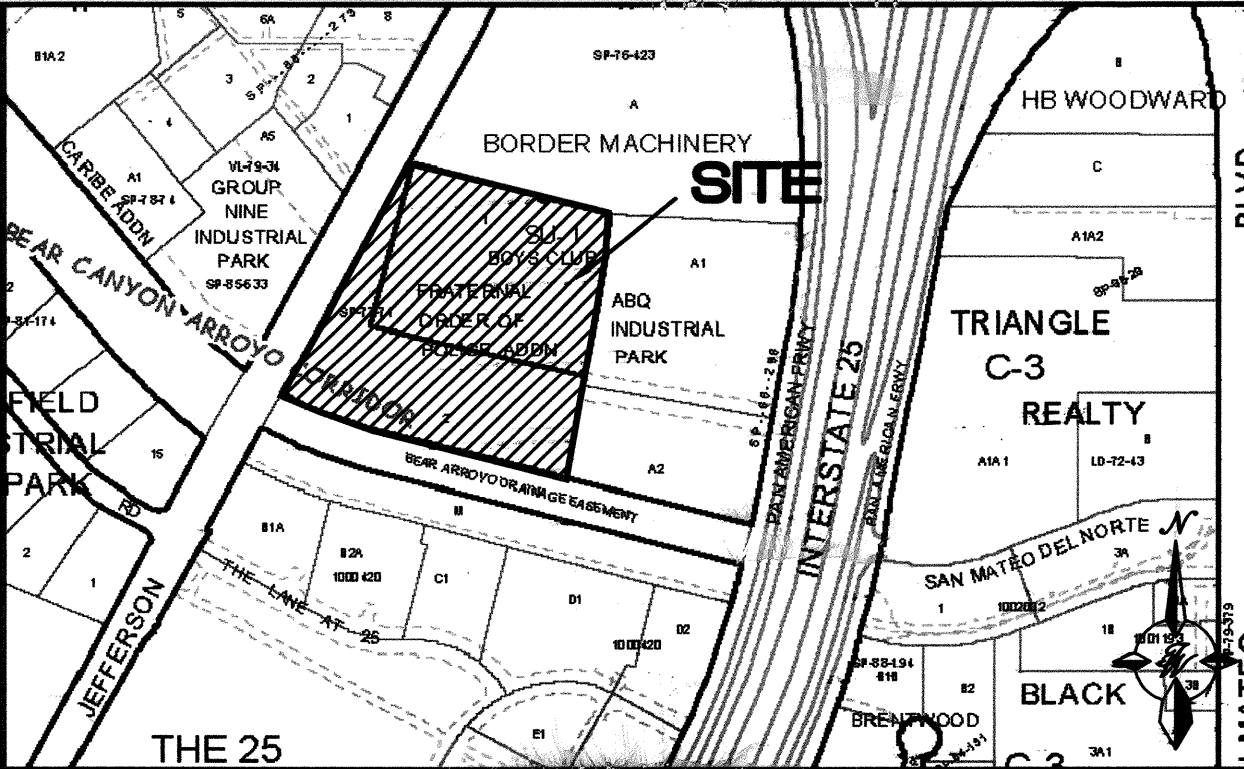
APPROVED AS RECORD DRAWINGS  
DESIGN REVIEW SECTION  
CITY ENGINEER  
*Anthony Lopez*  
DATE: 09/03/09

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA RIGHT-OF-WAY. TEL 884-2215 KURT WAGENER.
2. NO WORK SHALL BE PERFORMED IN THE AMAFCA RIGHT-OF-WAY 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 ROW. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA RIGHT-OF-WAY.
5. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012-NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.

APPROVED FOR CONSTRUCTION  
WITHIN AMAFCA RIGHT-OF-WAY

*Lynn Mazur* 2-1-07  
LYNN MAZUR DATE

RECORD DRAWING



VICINITY MAP E-17-Z  
NOT TO SCALE

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #7).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE CONTRACTORS EXPENSE.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
9. 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.
10. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS.
11. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
12. 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.
13. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

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 PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSIONED 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.

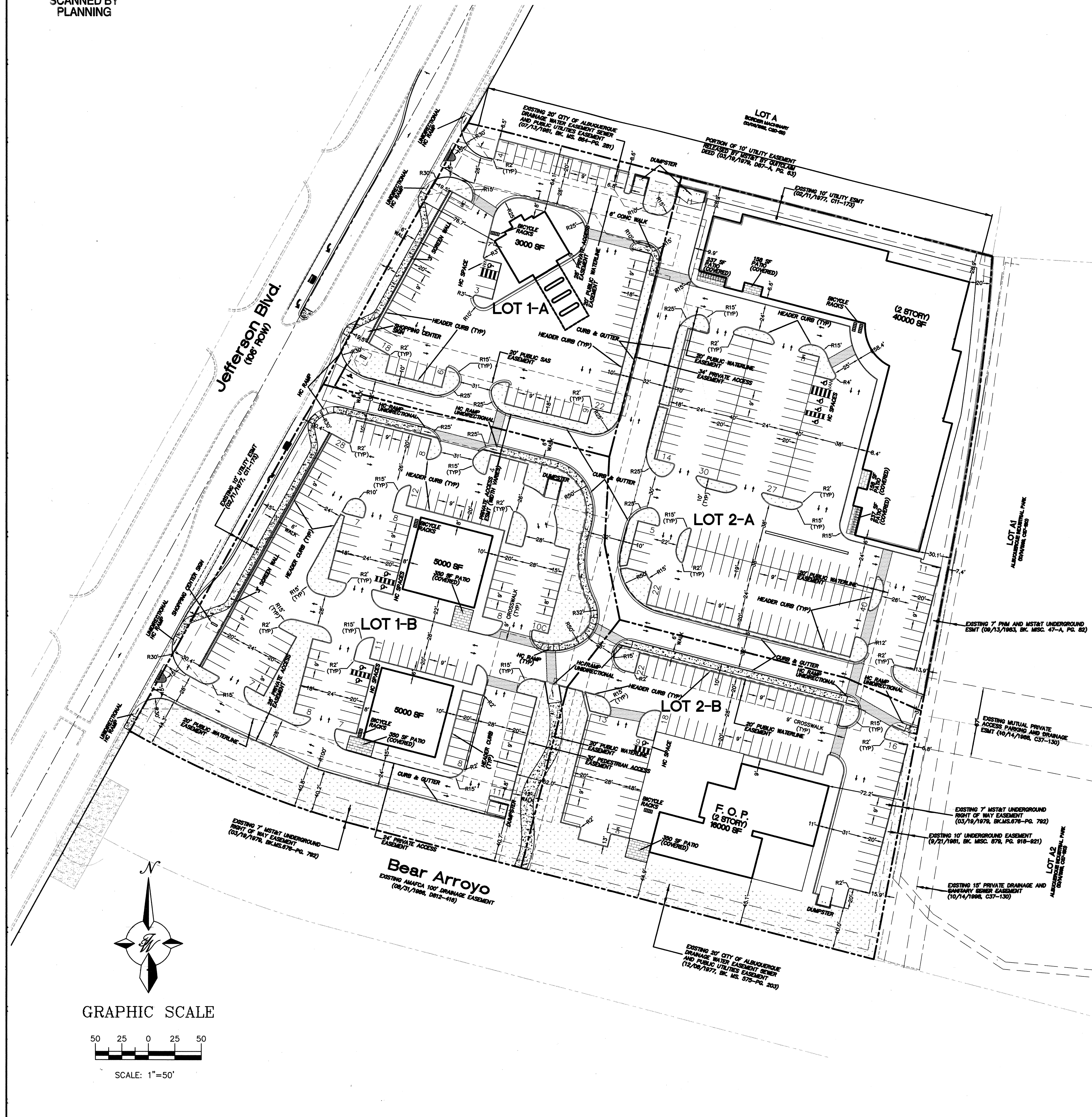
DRB #1004801

TIERRA WEST, LLC  
8509 JEFFERSON NE  
ALBUQUERQUE, NEW MEXICO 87113  
(505)858-3100

| REV                              | SHEETS | CITY ENGINEER    | DATE                     | USER DEPT. | DATE                                               | USER DEPT. | DATE |
|----------------------------------|--------|------------------|--------------------------|------------|----------------------------------------------------|------------|------|
| ENGINEERS STAMP & SIGNATURE      |        | APPROVALS        | ENGINEER                 | DATE       | APPROVED FOR CONSTRUCTION                          |            |      |
|                                  |        | DRC Chairman     | <i>Woodell</i>           | 3/23/07    | <i>Anthony Lopez</i> 2-21-08<br>City Engineer Date |            |      |
|                                  |        | Transportation   | <i>W.D.</i>              | 2/5/07     |                                                    |            |      |
|                                  |        | Water/Wastewater | <i>William J. Bales</i>  | 2/2/07     |                                                    |            |      |
|                                  |        | Hydrology        | <i>Bradley J. Bigham</i> | 2/5/07     |                                                    |            |      |
|                                  |        | AMAFCA           |                          |            |                                                    |            |      |
| CONSTR. MGMT.                    |        | CONSTR. COORD.   |                          |            | CITY PROJECT NO. 632482                            |            |      |
| RONALD R. BOHANNAN<br>P.E. #7868 |        |                  |                          |            | SHEET 1 OF 8                                       |            |      |



SCANNED BY  
PLANNING



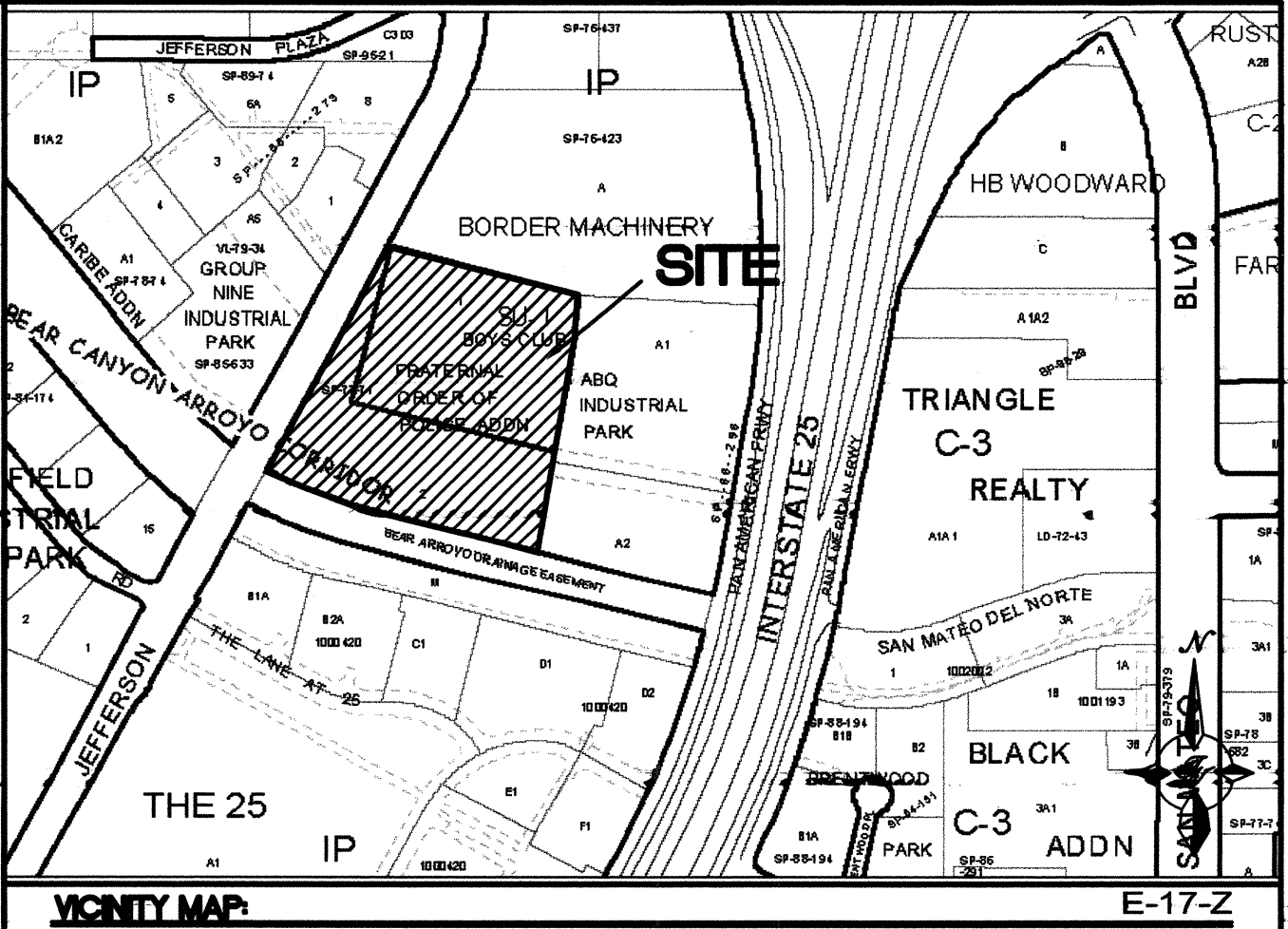
**SITE DATA:**

|                          |                     |
|--------------------------|---------------------|
| PROPOSED USAGE           | COMMERCIAL          |
| LOT AREAS                |                     |
| LOT 1-A                  | 66614 SF (1.53 AC)  |
| LOT 1-B                  | 136471 SF (3.13 AC) |
| LOT 2-A                  | 135605 SF (3.11 AC) |
| LOT 2-B                  | 82583 SF (1.90 AC)  |
| TOTAL SITE               | 421273 SF (9.67 AC) |
| ZONING                   | IP                  |
| MAXIMUM FAR              | 0.35                |
| MAXIMUM BUILDING HEIGHT  | 45'                 |
| MINIMUM BUILDING SETBACK | 20'                 |

**LANDSCAPING REQUIREMENTS**

|          |                                    |
|----------|------------------------------------|
| REQUIRED | 15% OF PAVED SURFACE AND BUILDINGS |
|----------|------------------------------------|

- GENERAL NOTES:**
1. COMMON STORM DRAINAGE, PEDESTRIAN, AND VEHICULAR ACCESS ACROSS NEW TRACTS IS GRANTED BY THIS SITE PLAN AND WILL BE GRANTED ON THE REPLAT.
  2. PEDESTRIAN ACCESS WILL BE PROVIDED ACROSS ALL LOTS INTERNALLY IN THE APPROVED SITE PLAN.
  3. LIGHT FIXTURES SHALL BE A MAXIMUM OF 25' WITH FULL CUT OFF SHIELDS ON FIXTURES SO THAT NO FUGITIVE LIGHT SHALL ESCAPE BEYOND THE PROPERTY LINE. THE LIGHT FIXTURES SHALL BE FULLY SHIELDED WITH HORIZONTAL LAMPS.
  4. THERE SHALL BE NO BACKLIT, PLASTIC, OR VINYL AWNINGS OR ILLUMINATED PLASTIC BANDING ON SIGNAGE.
  5. NO FREESTANDING CELL TOWERS OR ANTENNA SHALL BE PERMITTED. ANY WIRELESS COMMUNICATIONS FACILITIES SHALL BE INTEGRATED INTO THE BUILDING ARCHITECTURE.
  6. BUS STOPS ADJACENT TO THE PROPERTY, -ROUTE 151  
BUS STOPS AT SINGER AVE AND JEFFERSON BLVD AND OSUNA AVE AND JEFFERSON BLVD
  7. TRAFFIC STOP SIGNS TO BE PLACED AT ALL INTERSECTIONS.
  8. A CROSS LOT DRAINAGE, ACCESS AND PARKING EASEMENT FOR THE BENEFIT OF LOTS 1-A, 1-B, 2-A AND 2-B SHALL BE MAINTAINED BY SAME, GRANTED BY PLAT.



**LEGAL DESCRIPTION:**  
FRATERNAL ORDER OF POLICE ADDITION, TRACTS 1 AND 2

**LEGEND**

|       |                                       |
|-------|---------------------------------------|
| ----- | EXISTING CURB & GUTTER                |
| ----- | PROPOSED CURB & GUTTER                |
| ----- | BOUNDARY LINE                         |
| ----- | EXISTING BOUNDARY LINE                |
| ----- | EASEMENT                              |
| ----- | CENTERLINE                            |
| ----- | RIGHT-OF-WAY                          |
| ----- | LOT LINES                             |
| ----- | SETBACK LINE                          |
| ----- | STRIPING                              |
| ----- | PROPOSED BUILDING                     |
| ----- | EXISTING SIDEWALK                     |
| ----- | PROPOSED SIDEWALK                     |
| ----- | PROPOSED CROSSWALK (PATTERN CONCRETE) |
| ----- | PROPOSED BIKERACK                     |
| ----- | PROPOSED SCREEN WALL                  |
| ----- | PROPOSED TREES, LANDSCAPING           |
| ----- | LANDSCAPING                           |

**PROJECT NUMBER:** 1004801  
**APPLICATION NUMBER:**

This plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated \_\_\_\_\_ and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? ( ) Yes ( ) No If Yes, then a set of approved DRG plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

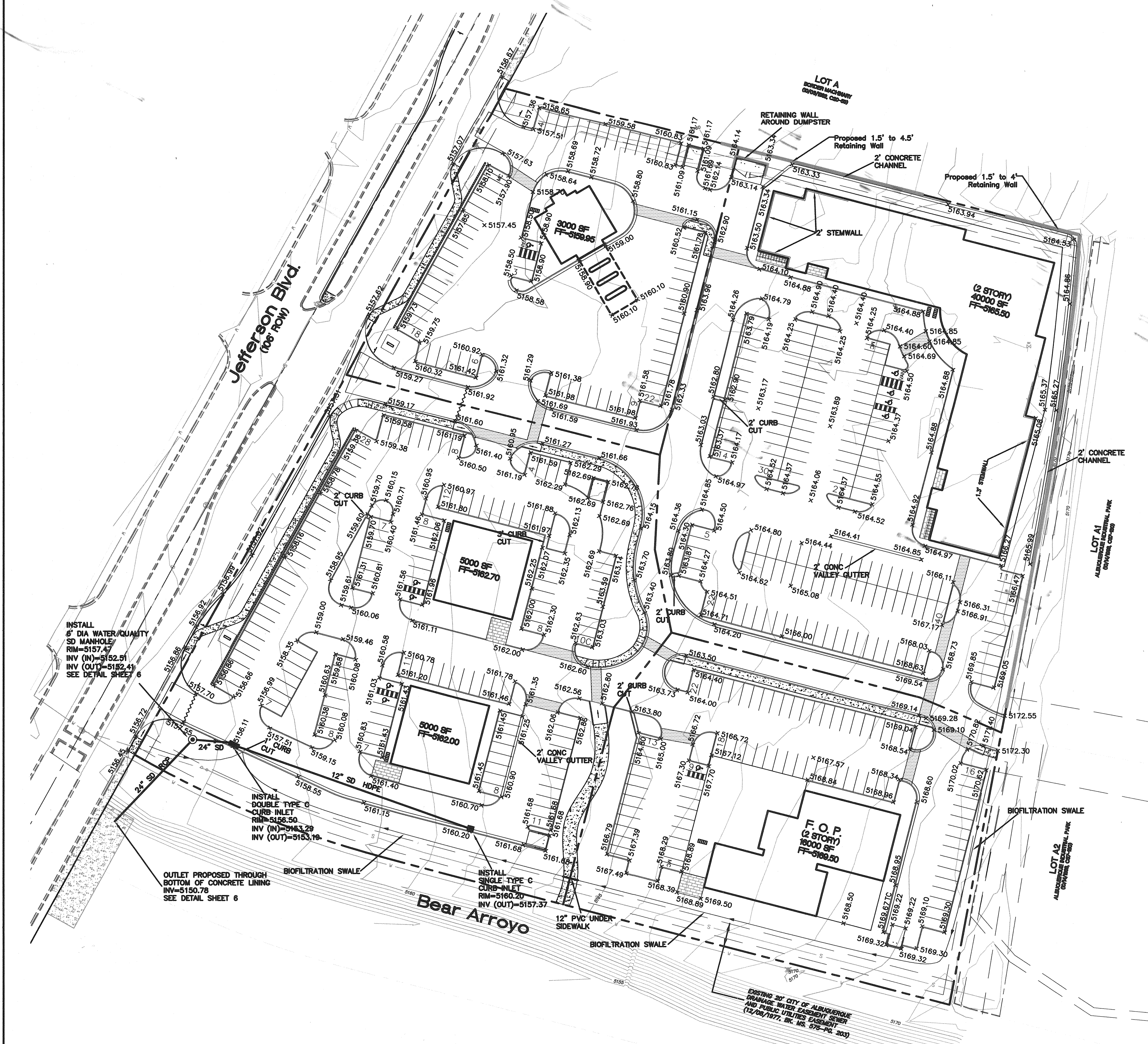
**DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL:**

|                                                 |      |
|-------------------------------------------------|------|
| Traffic Engineer, Transportation Division       | Date |
| Water Utility Development                       | Date |
| Parks & Recreation Department                   | Date |
| City Engineer                                   | Date |
| * Environmental Health Department (conditional) | Date |
| Solid Waste Management                          | Date |
| DRB Chairperson, Planning Department            | Date |

\* Environmental Health, if necessary

|                                                                 |                                                                                                                                                                             |                                                                                                                   |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>ENGINEER'S SEAL</b><br><br>RONALD R. BOHANNAN<br>P.E. #87868 | <b>FRATERNAL ORDER OF POLICE</b><br><b>SITE PLAN FOR SUBDIVISION</b><br><br>TIERRA WEST, LLC<br>5571 MIDWAY PARK PLACE NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505)858-3100 | <b>DRAWN BY</b> DY<br><b>DATE</b> 1-25-2007<br><b>2516-SPB.dwg</b><br><b>SHEET #</b> 3 of 8<br><b>JOB #</b> 25016 |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

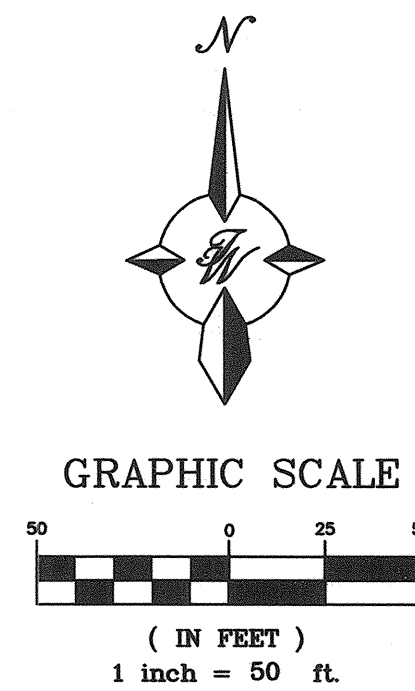
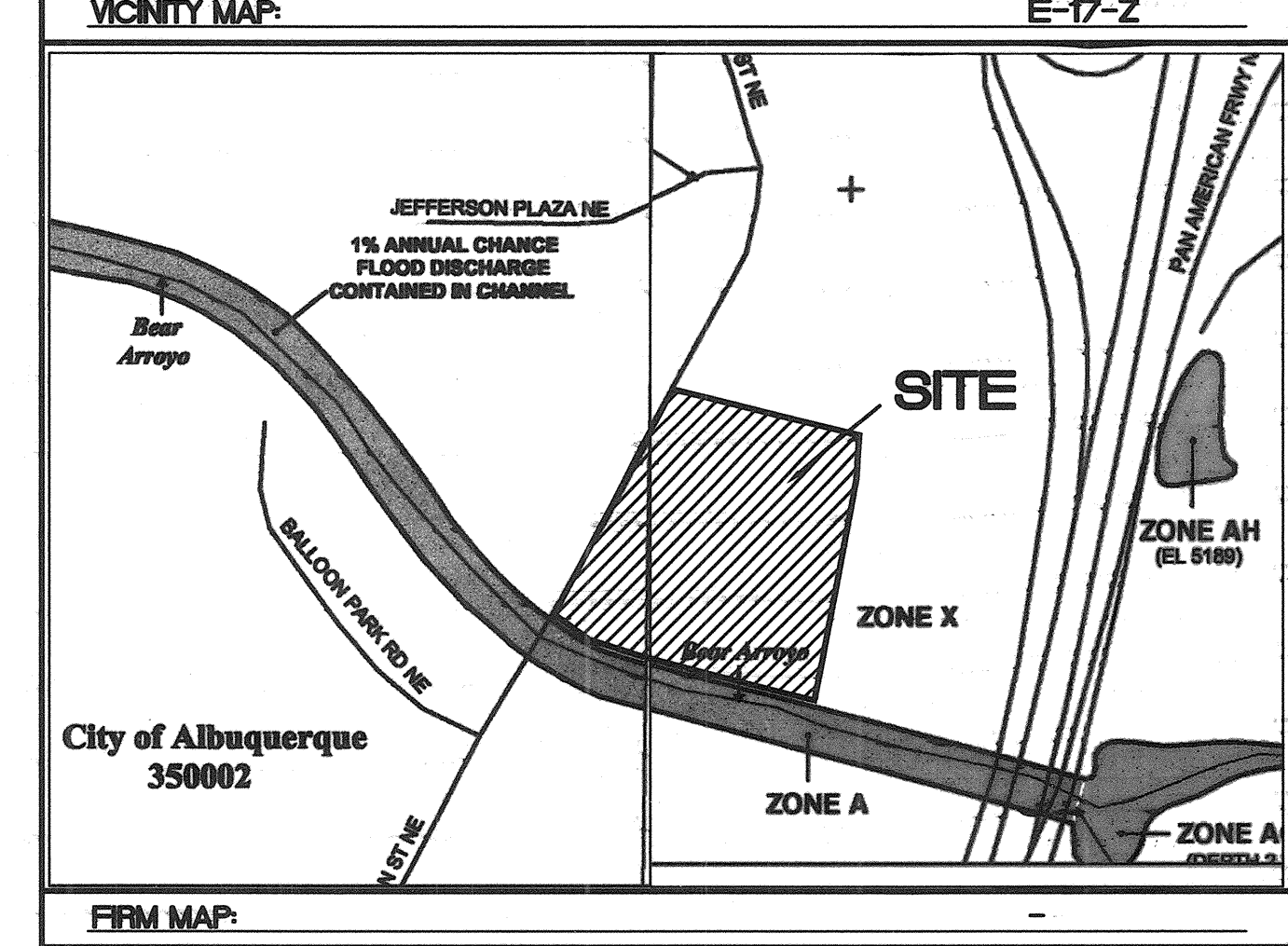
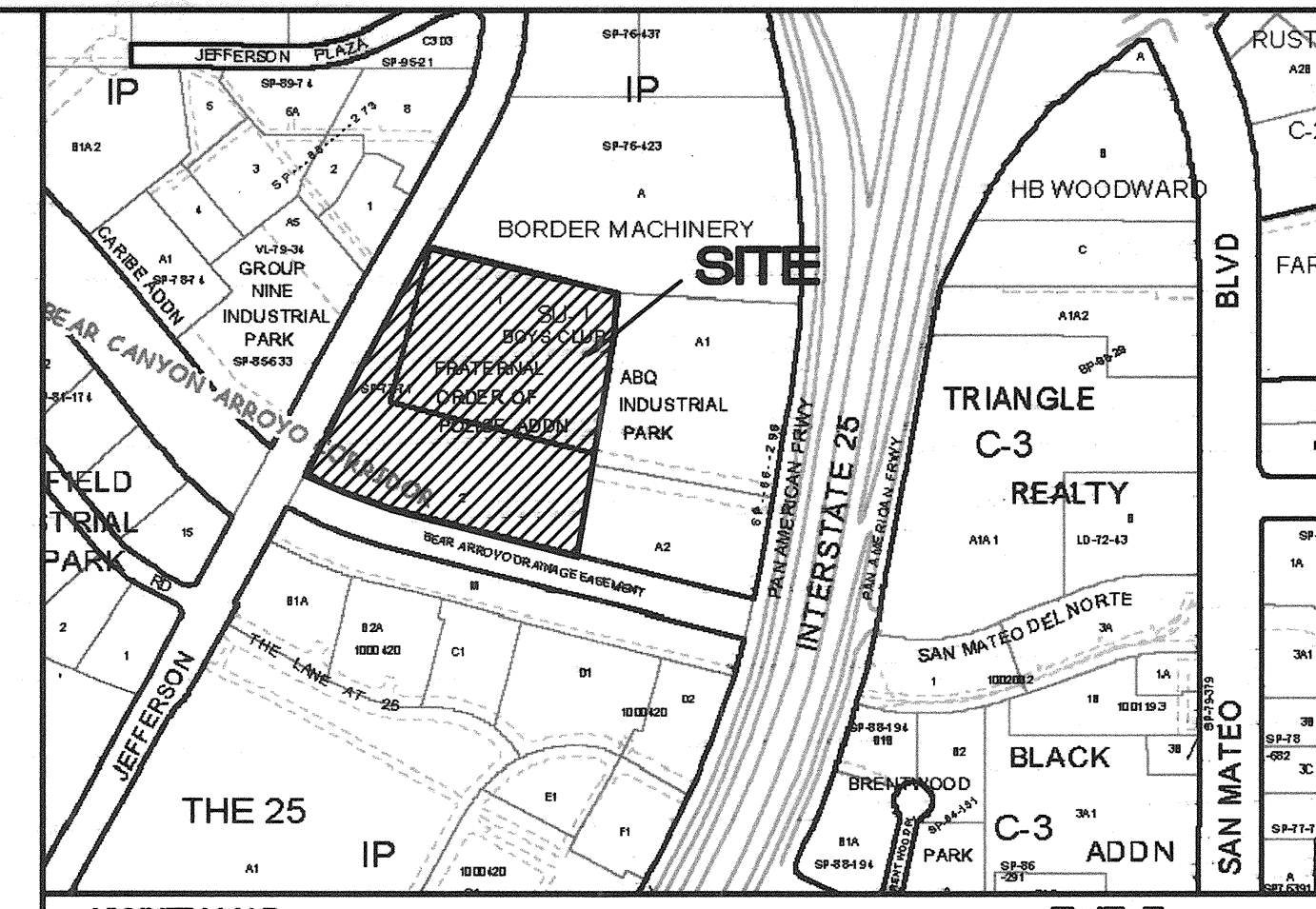
FOR REFERENCE ONLY



1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

**EROSION CONTROL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A GRADING PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
6. ALL EPA REGULATIONS WILL BE REQUIRED ON THE PROJECT. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED IDENTIFYING ALL CONTROL MEASURES ON THE PROJECT.
7. A PLAN IDENTIFYING THE STAGING AREA LOCATION OF THE CONSTRUCTION WORK AREA WILL BE PREPARED AND SUBMITTED TO THE CITY OF SANTA FE WITH THE BUILDING PERMIT.

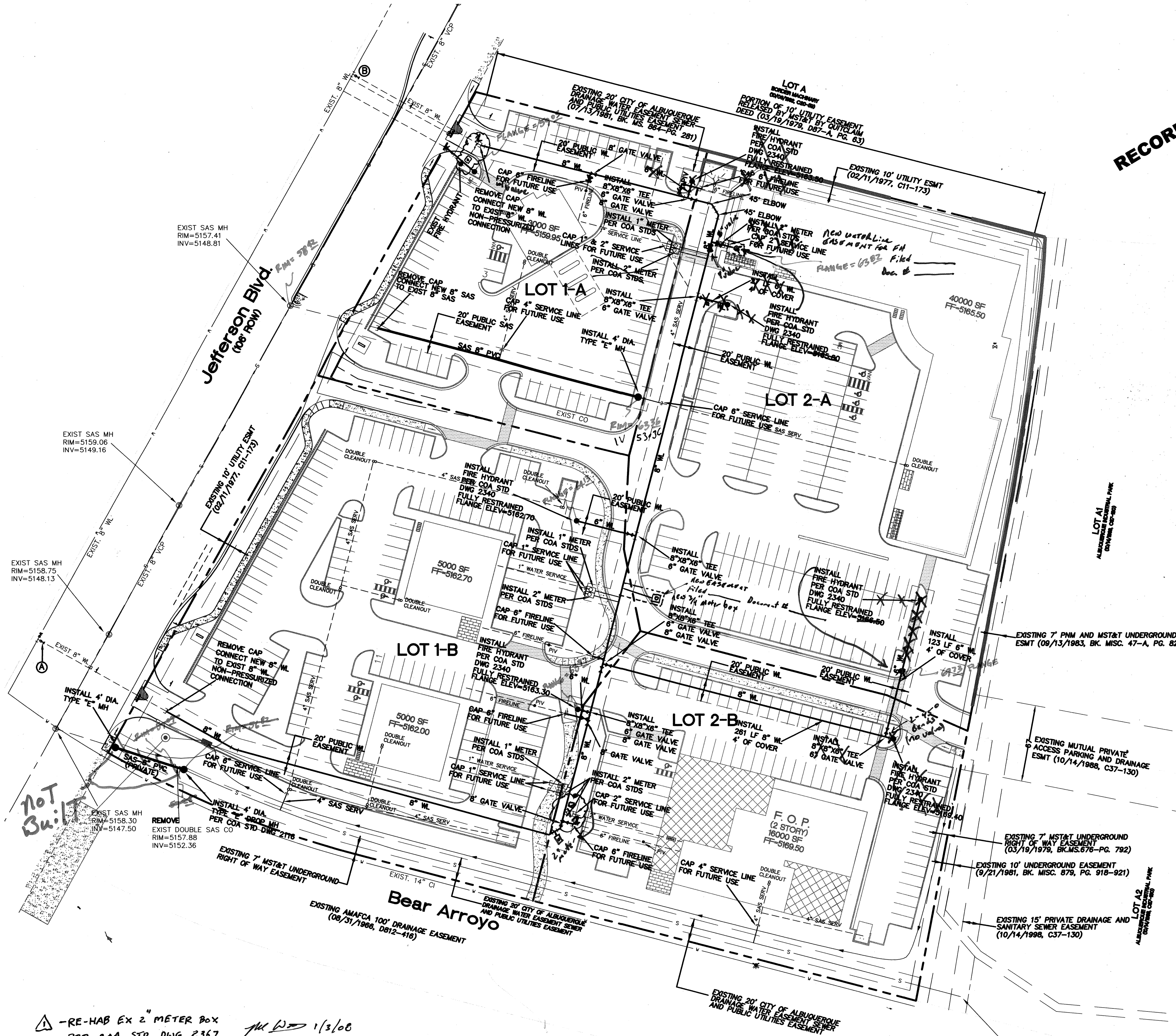


FOR REFERENCE ONLY

**NOTE**  
ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE INDICATED IN PLANS.

**FOR INFORMATION ONLY**

|                                                                                                 |                                  |                |
|-------------------------------------------------------------------------------------------------|----------------------------------|----------------|
| ENGINEER'S SEAL                                                                                 | <b>FRATERNAL ORDER OF POLICE</b> | DRAWN BY PM    |
|                                                                                                 | <b>GRADING PLAN</b>              | DATE 1-25-07   |
|                                                                                                 |                                  | SHEET # 4 of 8 |
| TIERRA WEST, LLC<br>5571 MIDWAY PARK PLACE NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505)858-3100 |                                  | JOB # 25016    |



RECORD DRAWING

- NOTES:
1. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
  2. NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) FIVE (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
  3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
  4. SHUTOFF VALVES A AND B ON THIS SHEET

**NOTICE TO CONTRACTORS**

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. 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 INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 785-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

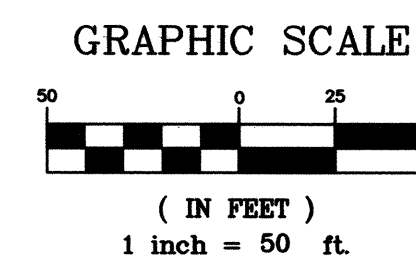
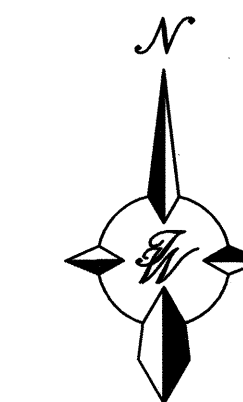
**GENERAL NOTES**

1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
3. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
4. ALL BLOCKING IS PER CITY OF ALBUQUERQUE STANDARD DWG. 2320.
5. ALL PIPE MATERIAL TO BE USED PER UPC.

**LEGEND**

|       |                              |
|-------|------------------------------|
| ===== | EXISTING CURB & GUTTER       |
| ===== | PROPOSED CURB & GUTTER       |
| ----- | BOUNDARY LINE                |
| ----- | EXISTING BOUNDARY LINE       |
| ----- | EASEMENT                     |
| ----- | CENTERLINE                   |
| ----- | RIGHT-OF-WAY                 |
| ----- | LOT LINES                    |
| ----- | SETBACK LINE                 |
| ----- | STRIPING                     |
| ----- | PROPOSED BUILDING            |
| ===== | EXISTING SIDEWALK            |
| ===== | PROPOSED SIDEWALK            |
| ===== | PROPOSED CROSSWALK           |
| ===== | PROPOSED BIKERACK            |
| ===== | PROPOSED FIRE HYDRANT        |
| ===== | PROPOSED SCREEN WALL         |
| ===== | EXISTING SAS MANHOLE         |
| ----- | EXISTING SANITARY SEWER LINE |
| ----- | PROPOSED SANITARY SEWER LINE |
| ----- | EXISTING VALVE W/BOX         |
| ----- | EXISTING FIRE HYDRANT        |
| ----- | EXISTING WATER LINE          |
| ----- | PROPOSED METER               |
| ----- | PROPOSED VALVE W/BOX         |
| ----- | PROPOSED WATER LINE          |
| ----- | SERVICE                      |
| ----- | FUTURE USE                   |
| ----- | PROPOSED SD                  |

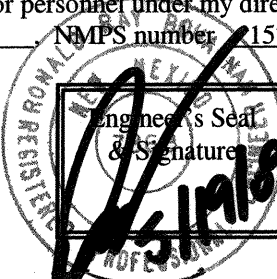
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



RECORD DRAWING

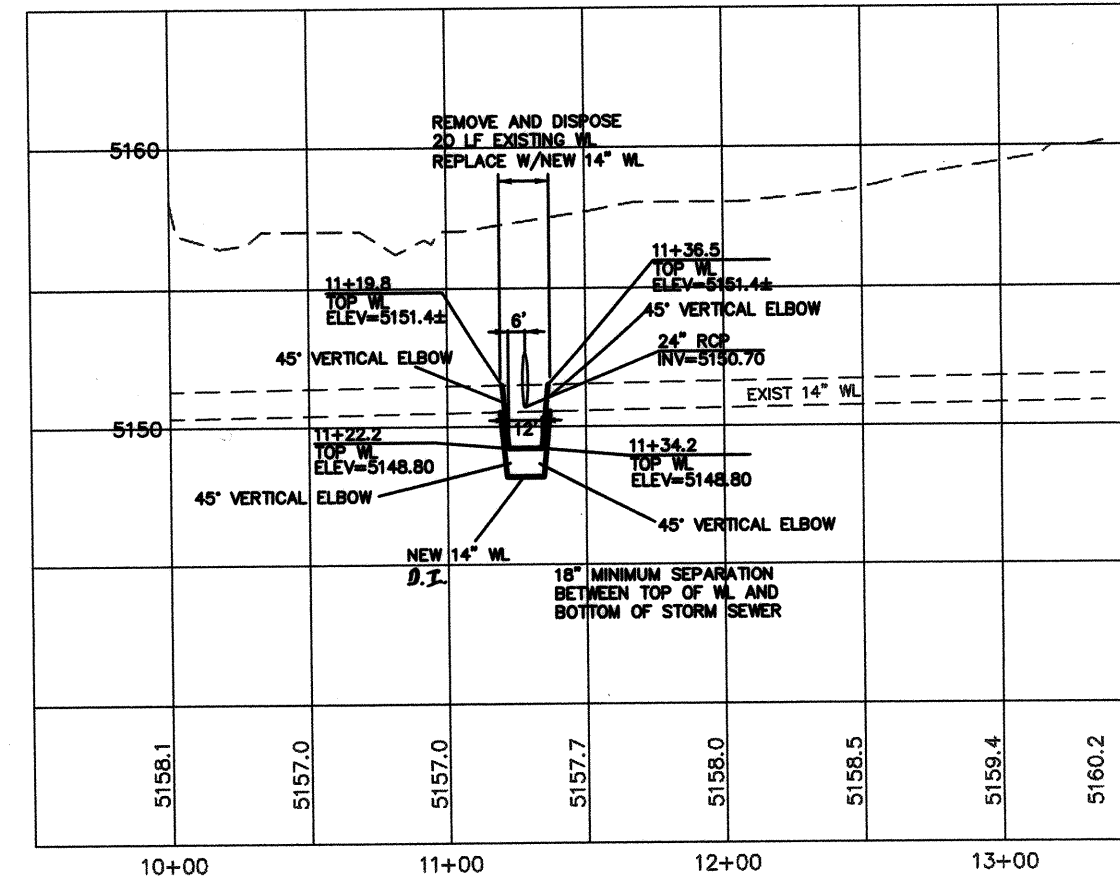
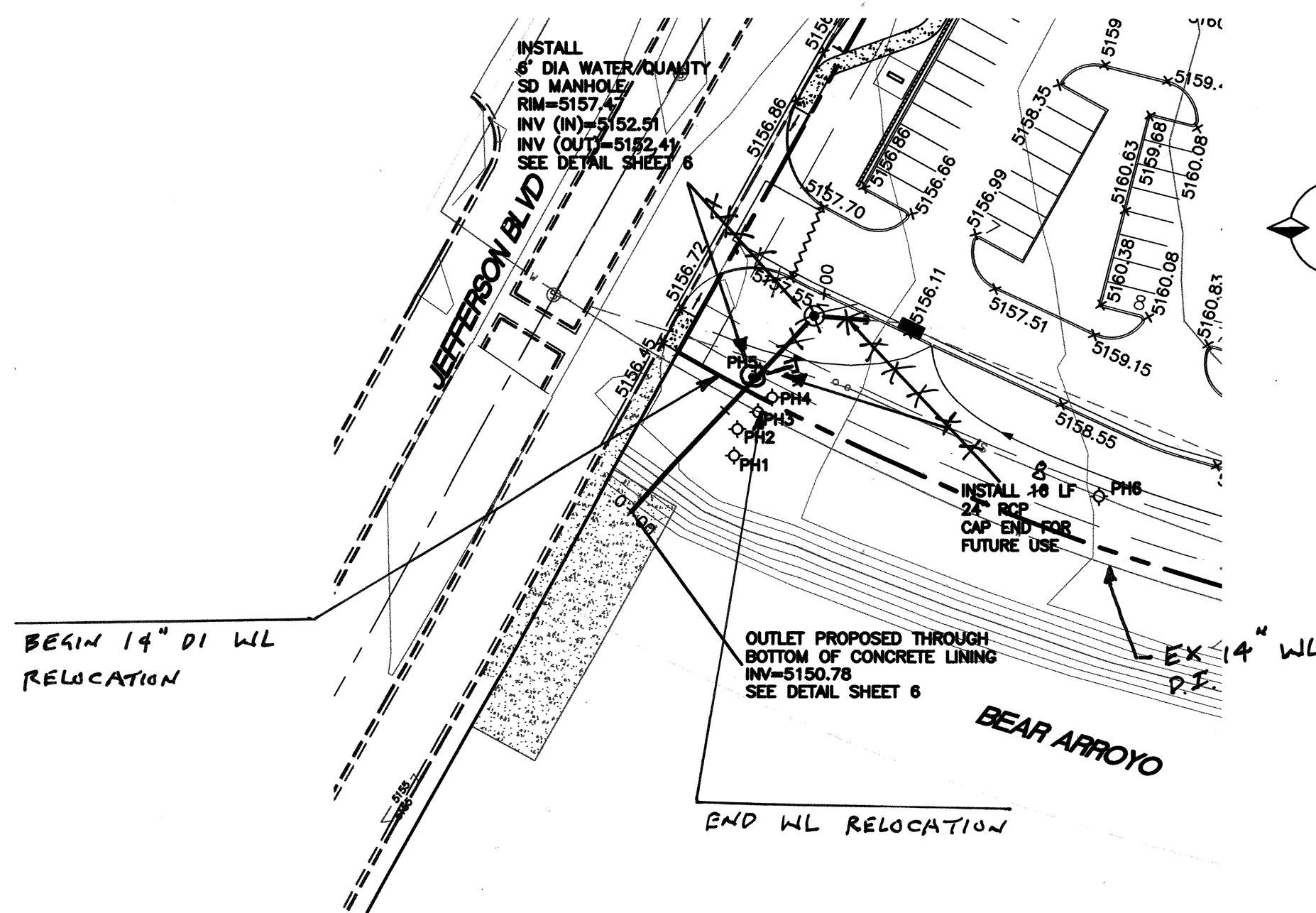
**CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS**

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, 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 that 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 my direction with survey information provided by Chris Medina of Terra Land Surveys.



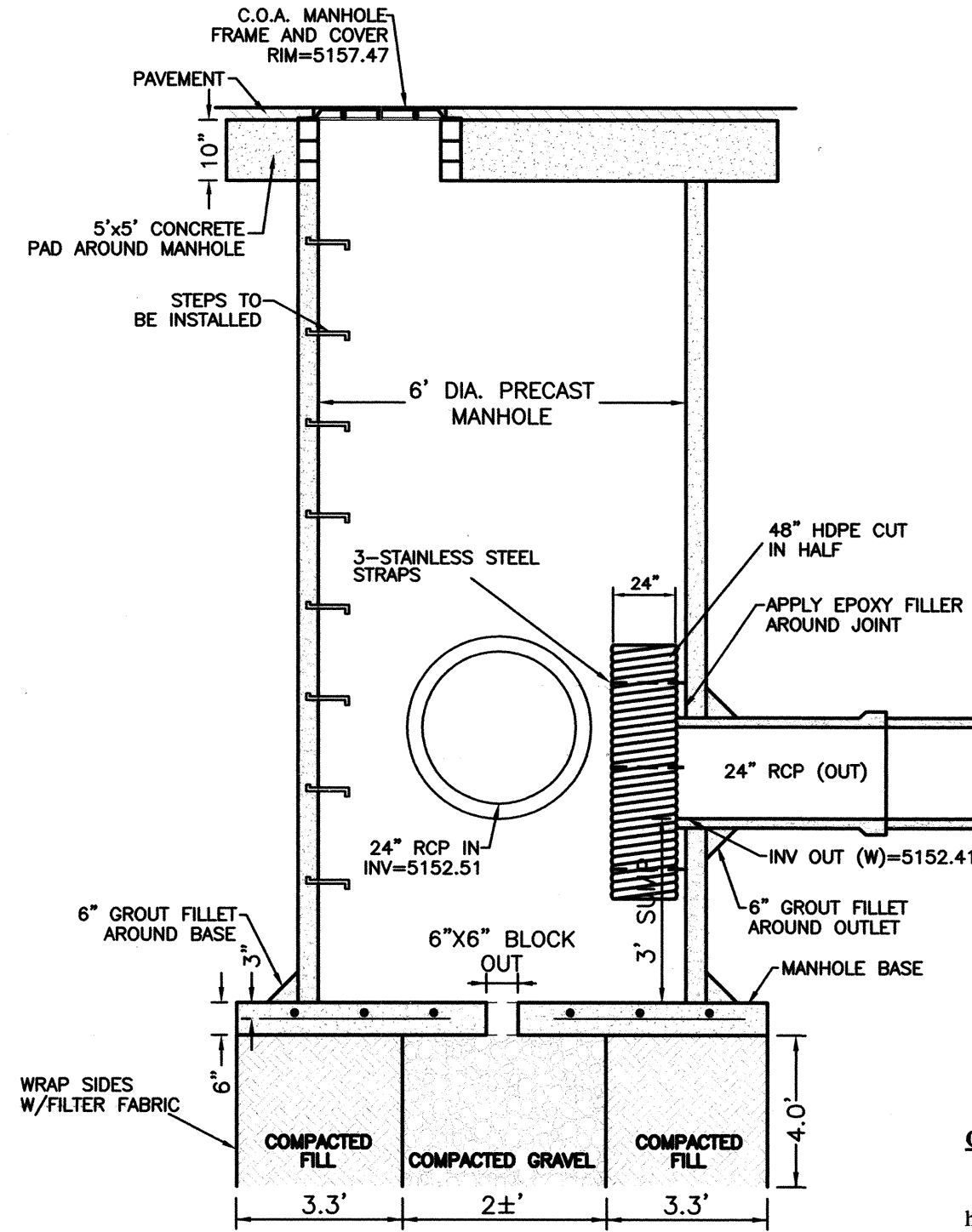
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>AS BUILT INFORMATION</b><br>CONTRACTOR: STAR PAVING<br>WORK: TERRA LAND SURVEYS DATE 2007<br>SURVEYOR: COATERRA WEST DATE 2007<br>FIELD LOCATION BY: COATERRA WEST DATE 2007<br>DRAWINGS: TERRA WEST DATE 2007<br>MICRO-FILM INFORMATION<br>RECORDED BY: NO.<br>DATE: |  | <b>BENCH MARKS</b><br>A.C.S. MONUMENT "M367-1"<br>STANDARD A.C.S. BRASS TABLET<br>(FOUND IN PLACE)<br>NEW MEXICO STATE PLANE COORDINATES<br>(CENTRAL ZONE-N.A.D. 1927)<br>X=399,603.43 Y=1,508,188.29 EL=5210.562<br>GROUND TO GRID FACTOR=0.99966232<br>DELTA ALPHA ANGLE=-071136" |  |
| <b>SURVEY INFORMATION</b><br>FIELD NOTES<br>NO. BY DATE<br>NO. BY DATE                                                                                                                                                                                                   |  | <b>ENGINEER'S SEAL</b><br>                                                                                                                                                                                                                                                          |  |
| NO. DATE<br>NO. DATE                                                                                                                                                                                                                                                     |  | NO. DATE<br>NO. DATE                                                                                                                                                                                                                                                                |  |
| REMARKS<br>REVISIONS<br>DESIGN                                                                                                                                                                                                                                           |  | DESIGNED BY: MO<br>DRAWN BY: PM<br>DRAWN NAME: 2518-MUB.dwg<br>CHECKED BY: MO                                                                                                                                                                                                       |  |
| CITY PROJECT NO. 632482                                                                                                                                                                                                                                                  |  | ZONE MAP NO. E-17-Z                                                                                                                                                                                                                                                                 |  |
| SHEET 5 OF 8                                                                                                                                                                                                                                                             |  | DATE: 12-19-2008                                                                                                                                                                                                                                                                    |  |

|                                                                                                        |                                                                   |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>TIERRA WEST, LLC</b><br>5571 MIDWAY PARK PLACE NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505)858-3100 |                                                                   |
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP                                    |                                                                   |
| TITLE: <b>FRATERNAL ORDER OF POLICE</b><br>MASTER UTILITY PLAN                                         |                                                                   |
| DESIGN REVIEW COMMITTEE<br>APPROVE<br>MAR 23 2007<br>DESIGN REVIEW COMMITTEE                           | CITY ENGINEER APPROVAL<br>APPROVE<br>FEB 21 2008<br>CITY ENGINEER |
| CITY PROJECT NO. 632482                                                                                | ZONE MAP NO. E-17-Z                                               |
| SHEET 5 OF 8                                                                                           | DATE: 12-19-2008                                                  |



EX 14" WATER LINE PLAN & PROFILE NTS

| POTHOLE TABLE |       |              |        |              |  |
|---------------|-------|--------------|--------|--------------|--|
| POTHOLE NO    | TYPE  | MATERIAL     | DIA.   | DEPTH TO TOP |  |
| 1             | GAS   | COATED METAL | 4"     | 42"          |  |
| 2             | GAS   | COATED METAL | 4"     | 33"          |  |
| 3             | WATER | METALIC      | 14"    | 72"          |  |
| 4             | GAS   | P.E.         | 2"     | 37"          |  |
| 5             | COMM  | PVC          | 1-3/4" | 28"          |  |
| 6             | SAS   | PVC          | 6"     | 56"          |  |



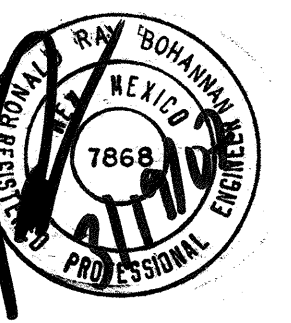
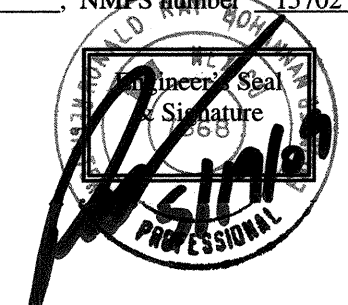
WATER QUALITY MANHOLE NTS

LEGEND

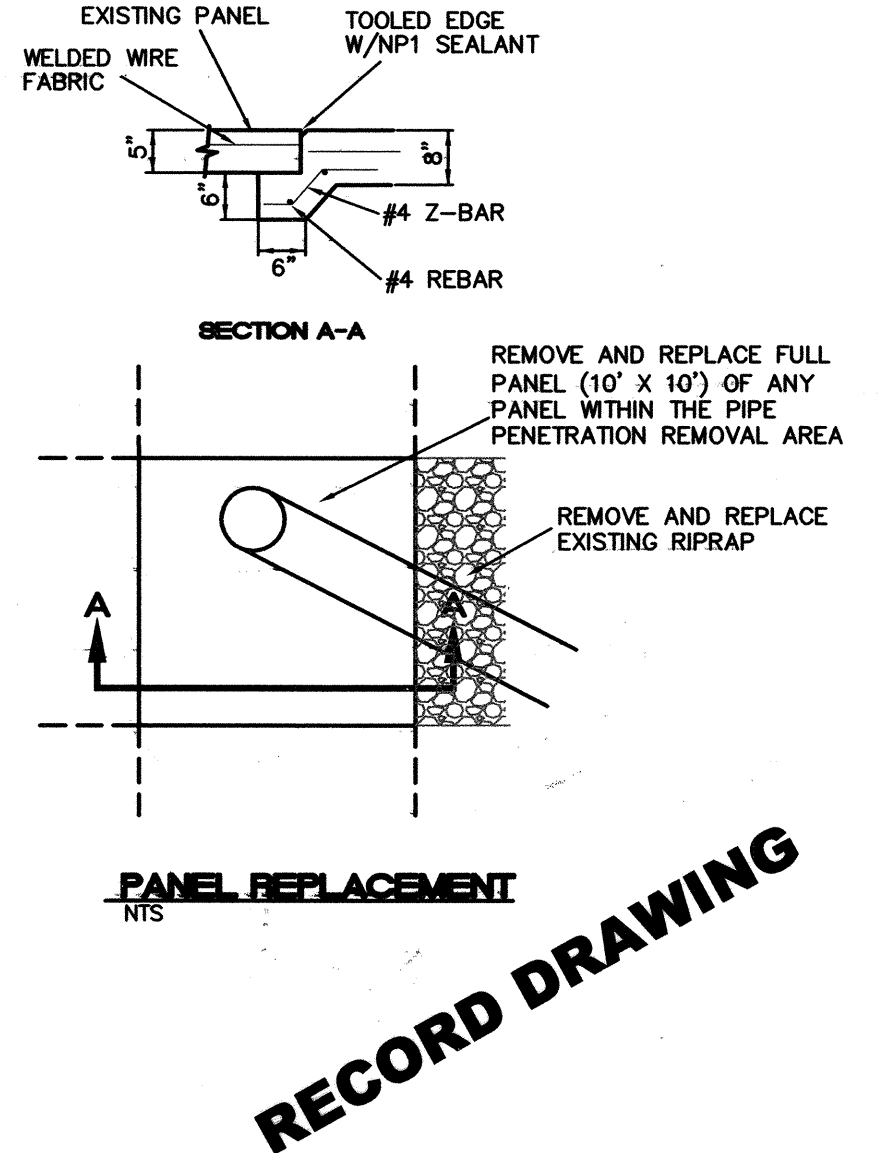
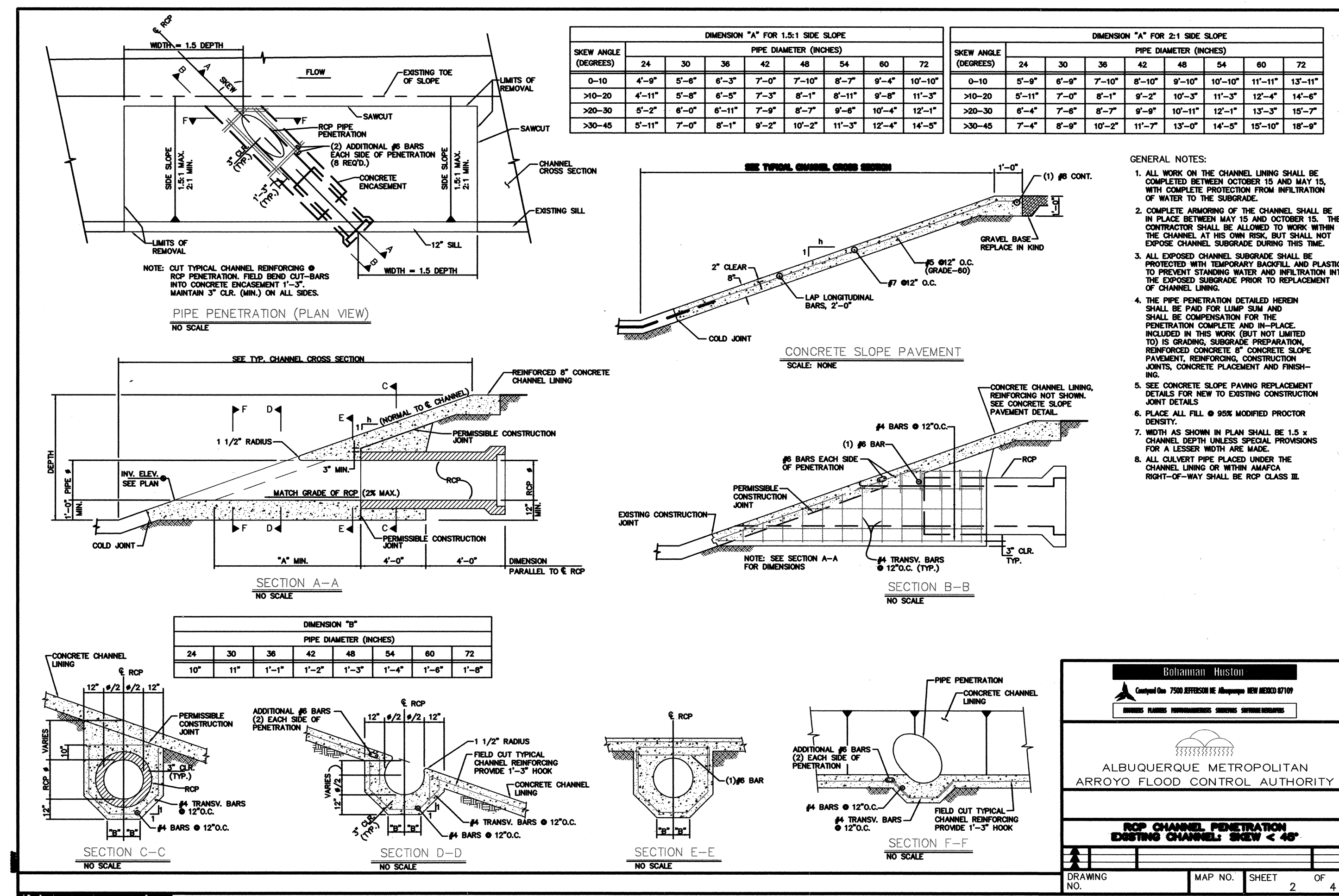
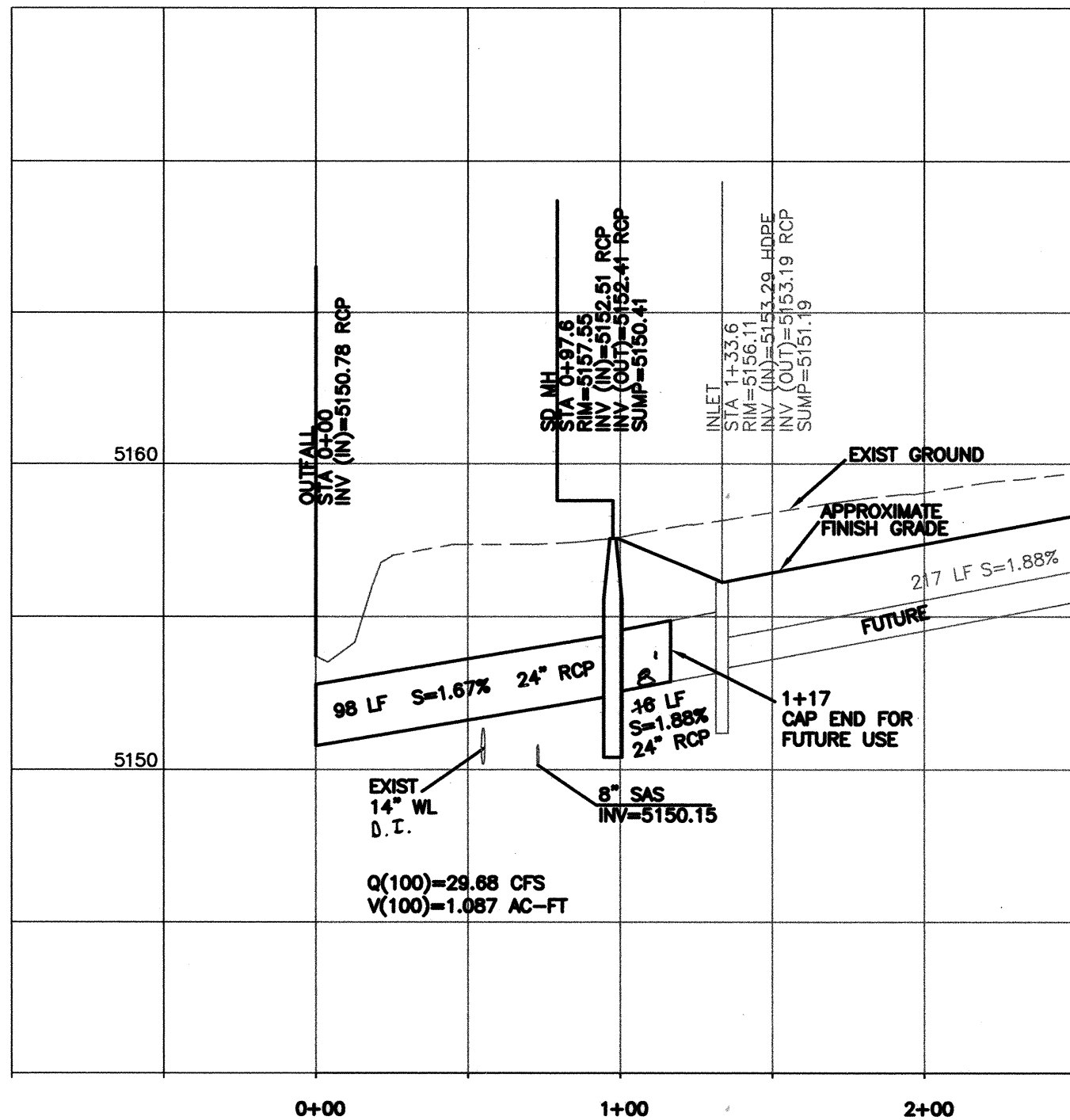
|     |                                       |
|-----|---------------------------------------|
| --- | EXISTING CURB & GUTTER                |
| --- | PROPOSED CURB & GUTTER                |
| --- | BOUNDARY LINE                         |
| --- | EASEMENT                              |
| --- | CENTERLINE                            |
| --- | STRIPING                              |
| --- | EXISTING SIDEWALK                     |
| --- | PROPOSED SIDEWALK                     |
| --- | PROPOSED CROSSWALK (PATTERN CONCRETE) |
| --- | PROPOSED SPOT ELEVATION               |
| --- | EXISTING INDEX CONTOUR                |
| --- | EXISTING CONTOUR                      |
| --- | EXISTING RETAINING WALL               |
| --- | PROPOSED RETAINING WALL               |
| --- | EXISTING SAS MANHOLE                  |
| --- | EXISTING SANITARY SEWER LINE          |
| --- | EXISTING VALVE W/BOX                  |
| --- | EXISTING FIRE HYDRANT                 |
| --- | EXISTING WATER LINE                   |

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, 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 that 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 my direction with survey information provided by Chris Medina of Terra Land Surveys, N.M.P.S. number 15702.



| AS BUILT INFORMATION  |                                         | BENCH MARKS |      | SURVEY INFORMATION |     | ENGINEER'S SEAL |     |
|-----------------------|-----------------------------------------|-------------|------|--------------------|-----|-----------------|-----|
| CONTRACTOR            | STAR PAVING                             | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| INSPECTOR             | TERRA LAND SURVEYS                      | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| STATIONED BY          | CONTRERIA WEST                          | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| FIELD VERIFICATION BY | CONTRERIA WEST                          | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| VERIFICATION BY       | TERRA WEST                              | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| CONTRACT NO.          | NEW MEXICO STATE PLANE COORDINATES      | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| PROJECT NO.           | (CENTRAL ZONE-N.A.D. 1927)              | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| PROJECT NO.           | X=399,603.43 Y=1,508,188.29 EL=5210.562 | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| PROJECT NO.           | GROUND TO GRID FACTOR=0.99966232        | DATE        | DATE | NO.                | NO. | NO.             | NO. |
| PROJECT NO.           | DELTA ALPHA ANGLE=-0.1136               | DATE        | DATE | NO.                | NO. | NO.             | NO. |



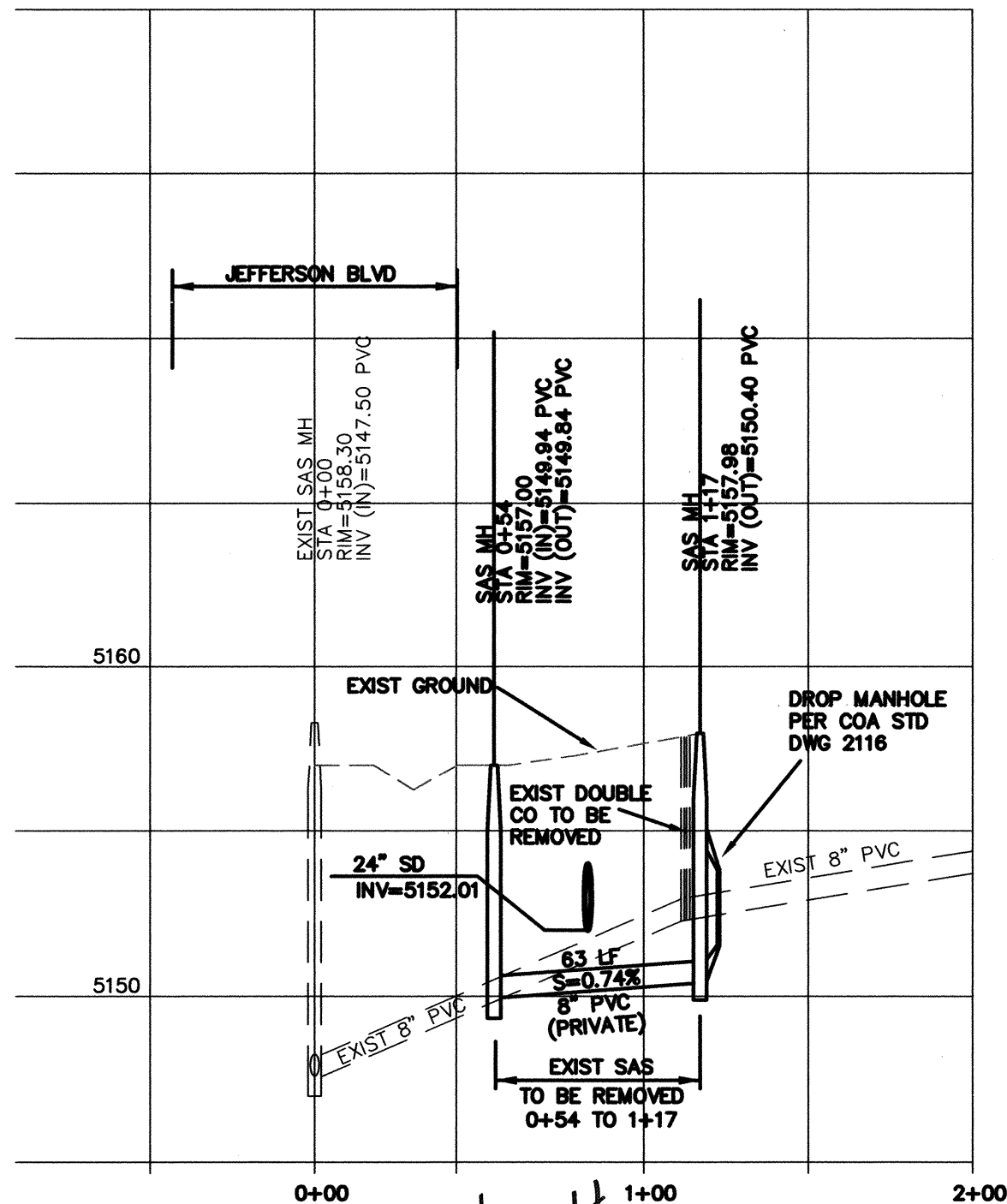
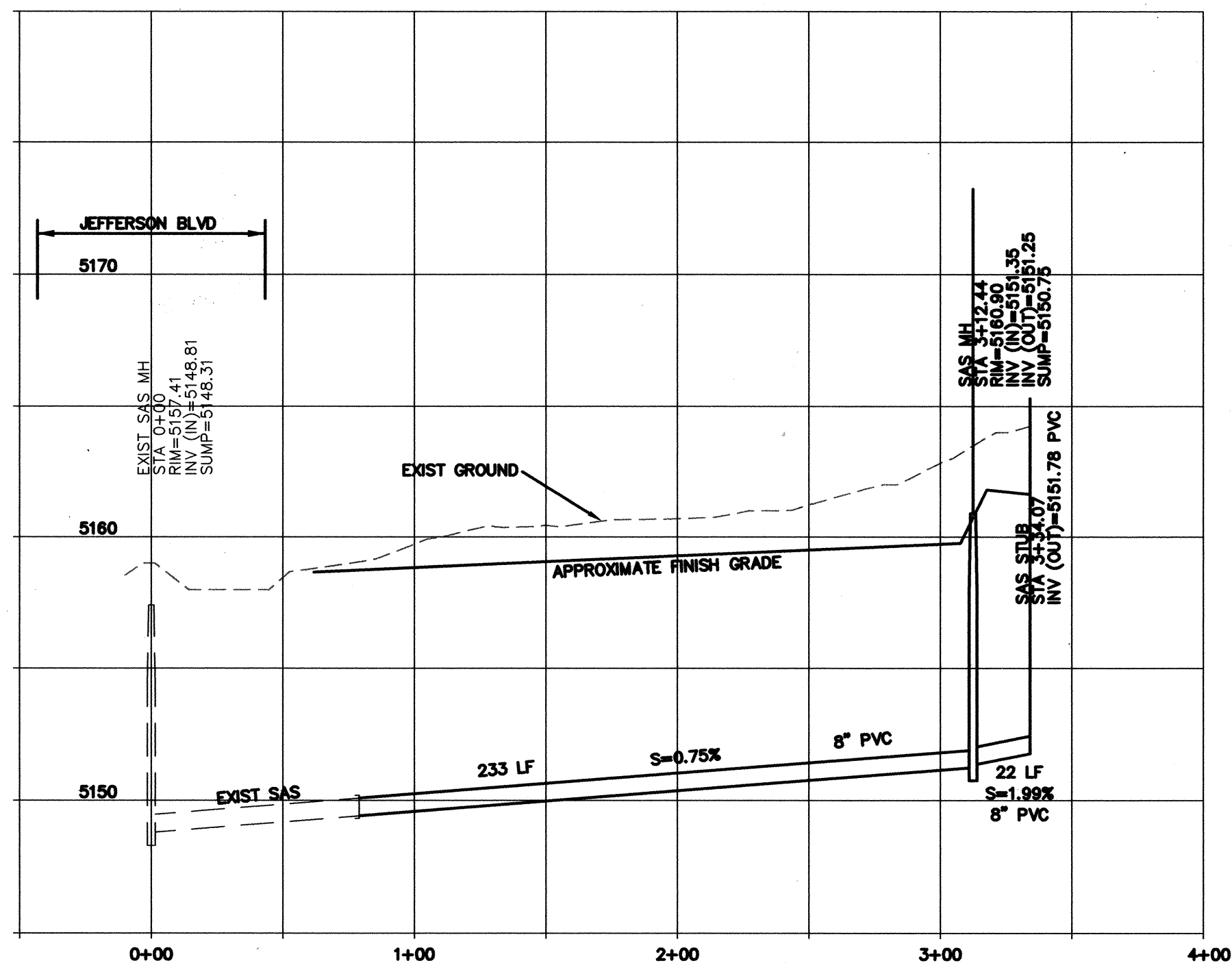
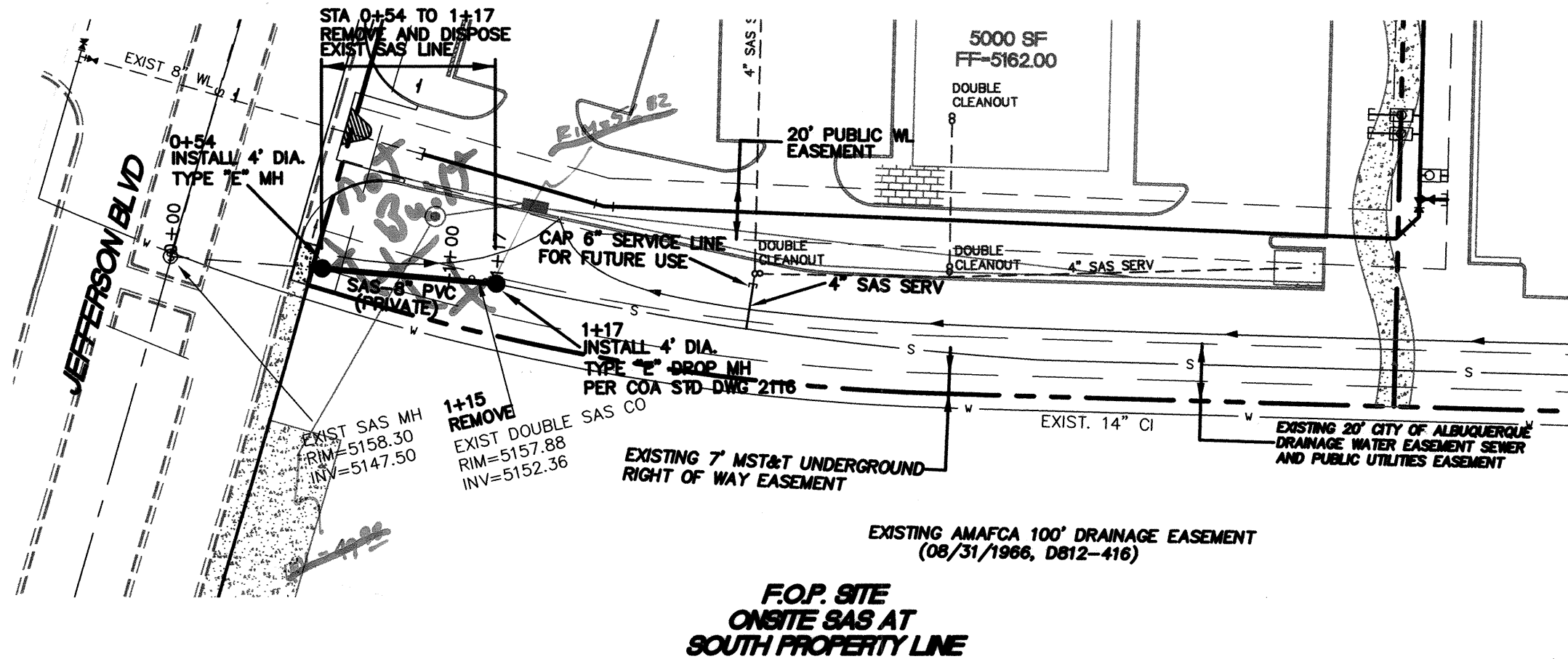
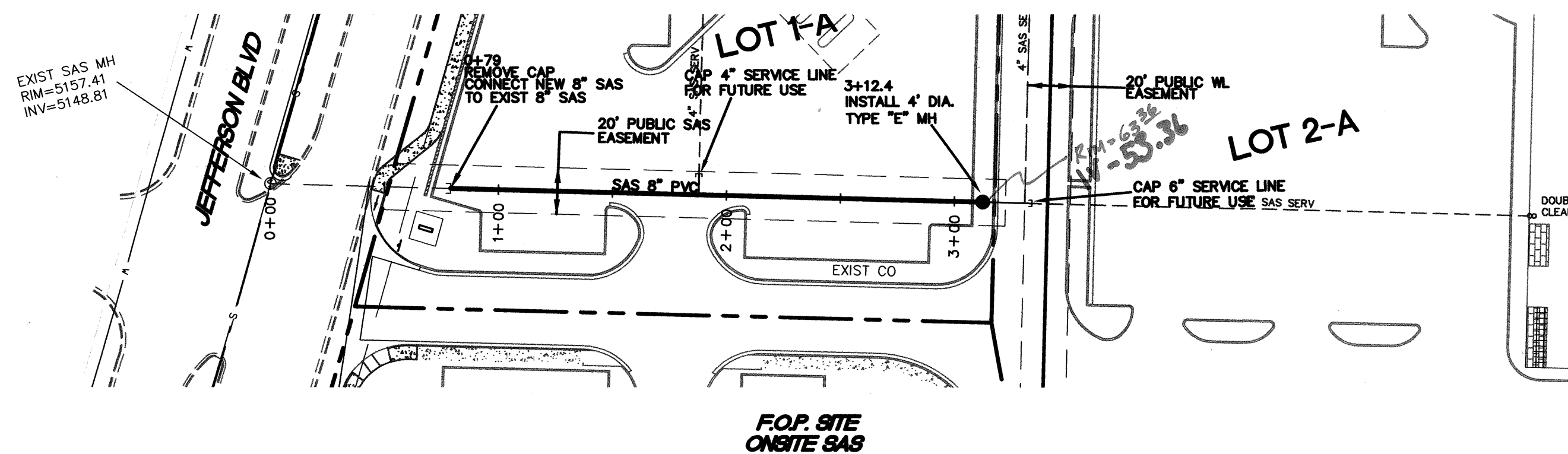
RECORD DRAWING

SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

TERRA WEST, LLC  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505)858-3100

|                                                                     |                                                                    |                                                                                                                           |                  |
|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP |                                                                    | TITLE: <b>FRATERNAL ORDER OF POLICE<br/>OFFSITE DRAINAGE PLAN &amp; PROFILE<br/>OFFSITE WATER LINE PLAN &amp; PROFILE</b> |                  |
| DESIGN REVIEW COMMITTEE<br>APPROVED<br>MAR 23 2007                  | CITY ENGINEER APPROVAL<br>APPROVED<br>FEB 21 2008<br>CITY ENGINEER | MO./DAY/YR.                                                                                                               | MO./DAY/YR.      |
| DESIGNED BY: MO                                                     | DRAWN BY: PM                                                       | JOB NO.: 25016                                                                                                            | DATE: 12-19-2006 |
| CHECKED BY: MO                                                      |                                                                    |                                                                                                                           |                  |

SCANNED BY  
PLANNING



Not built  
with this  
project.

RECORD DRAWING

### LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- STRIPING
- PROPOSED BUILDING
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- PROPOSED CROSSWALK
- PROPOSED BIKERACK
- PROPOSED FIRE HYDRANT
- PROPOSED SCREEN WALL
- EXISTING SAS MANHOLE
- EXISTING SANITARY SEWER LINE
- PROPOSED SANITARY SEWER LINE
- EXISTING VALVE W/BOX
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- PROPOSED METER
- PROPOSED VALVE W/BOX
- PROPOSED WATER LINE
- SERVICE
- FUTURE USE
- PROPOSED SD

### CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, 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 that 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 my direction with survey information provided by Chris Medina of Tierra Land Surveys.

NMPE's number: 15702

August 2001

SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

TIERRA WEST, LLC  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505)858-3100

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: **FRATERNAL ORDER OF POLICE**  
ONSITE SAS PLAN AND PROFILE

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

MO./DAY/YR.

MO./DAY/YR.

MAR 23 2007

FEB 21 2008

DESIGN REVIEW COMMITTEE

CITY ENGINEER

RECORD DRAWING



REMARKS

BY

NO. DATE

DESIGNED BY: MO

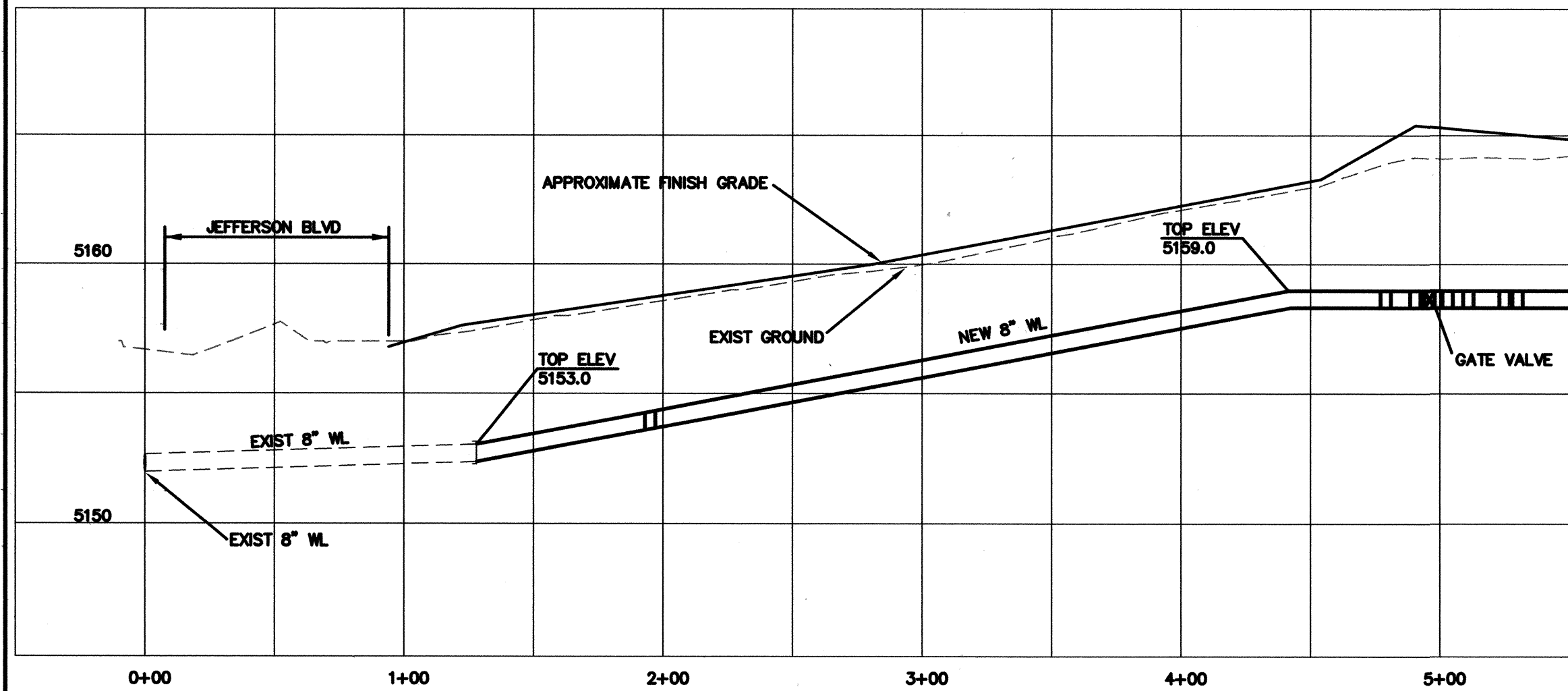
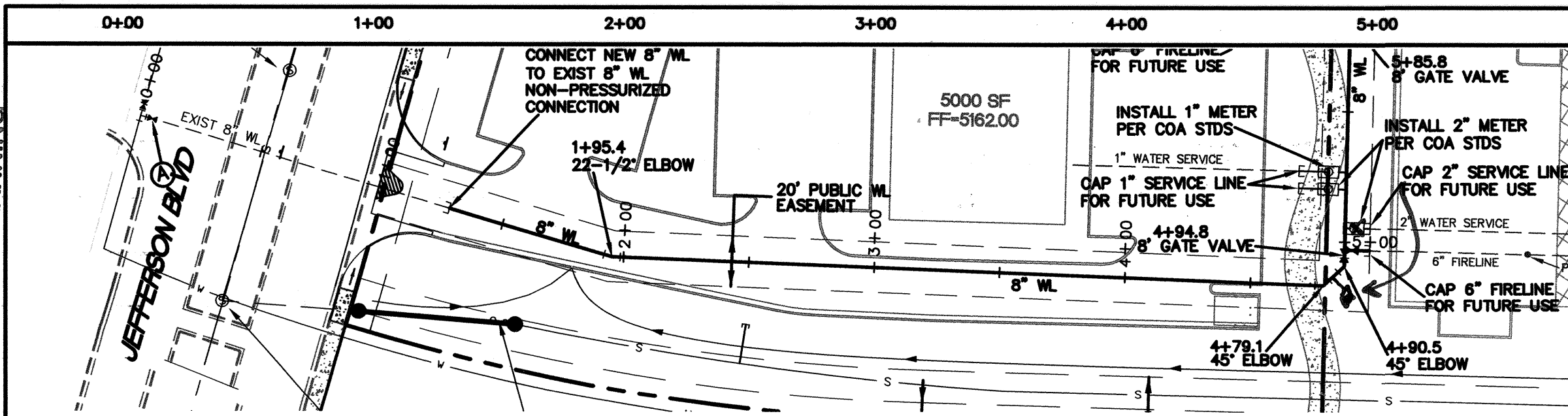
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DRAWN NAME: 2516-MUB.dwg

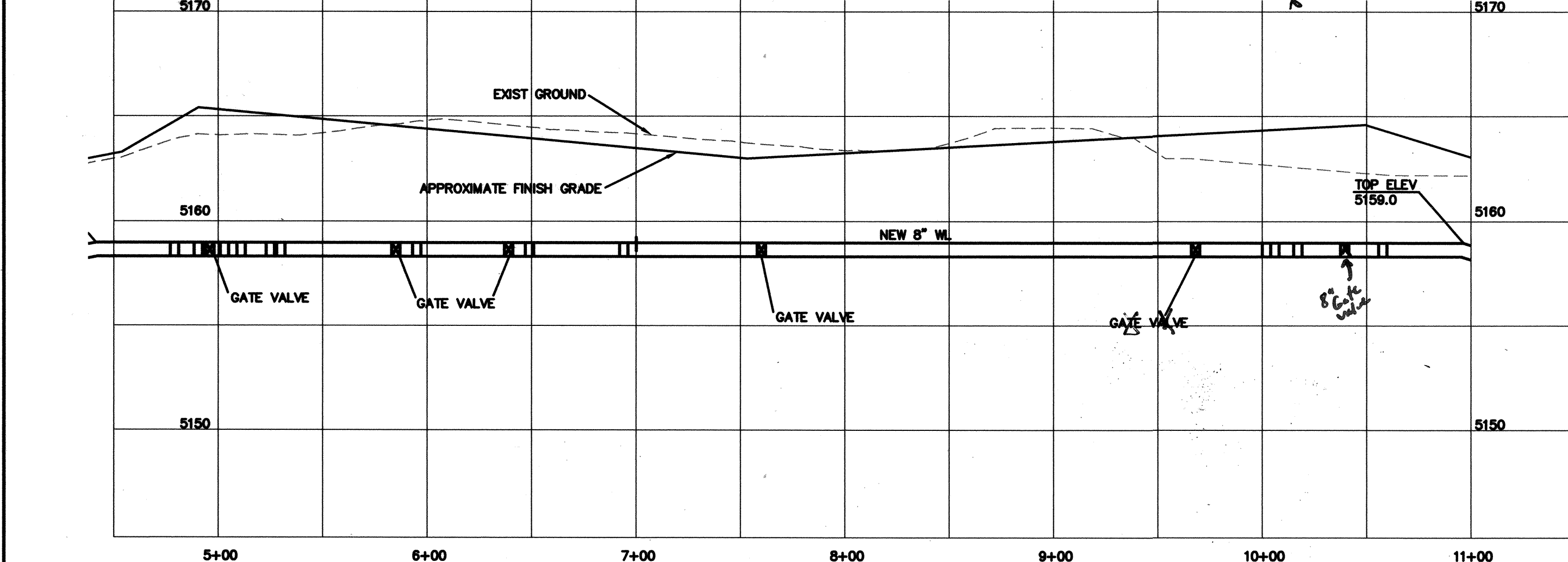
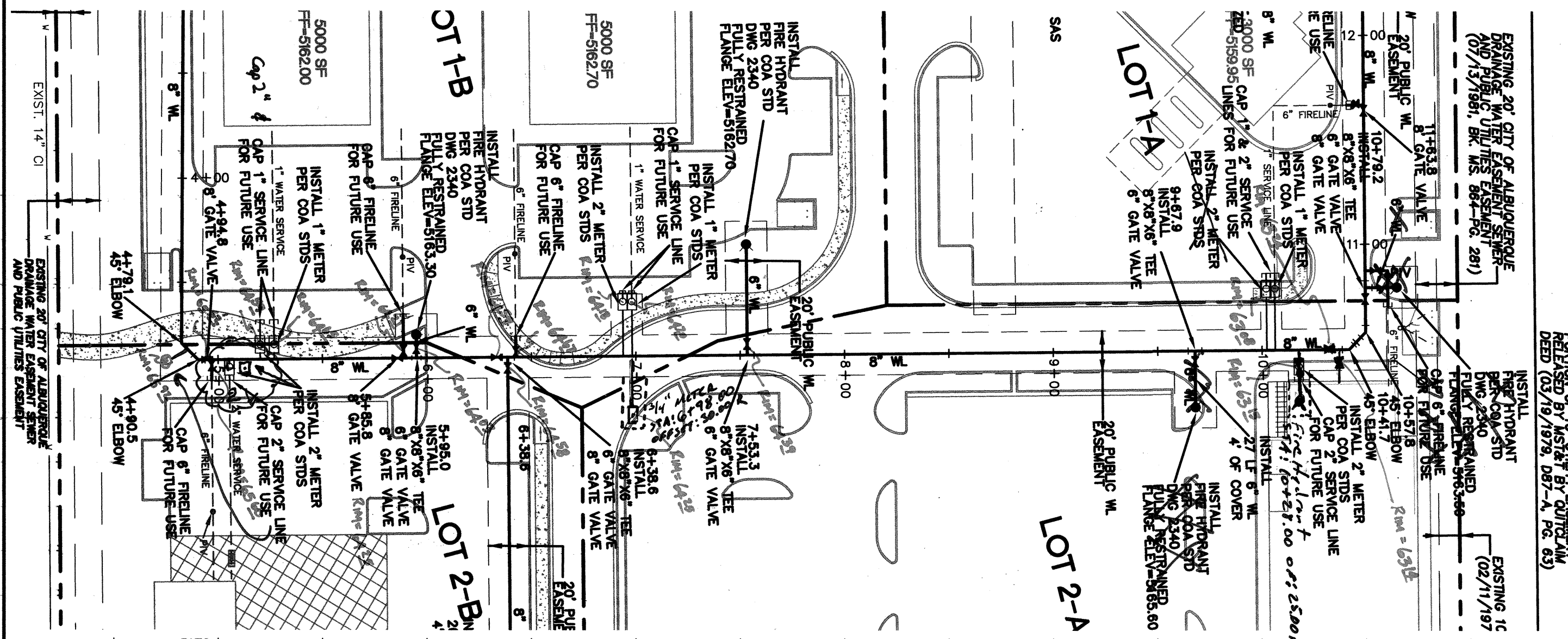
CHECKED BY: MO

JOB NO.: 25016

DATE: 12-19-2006

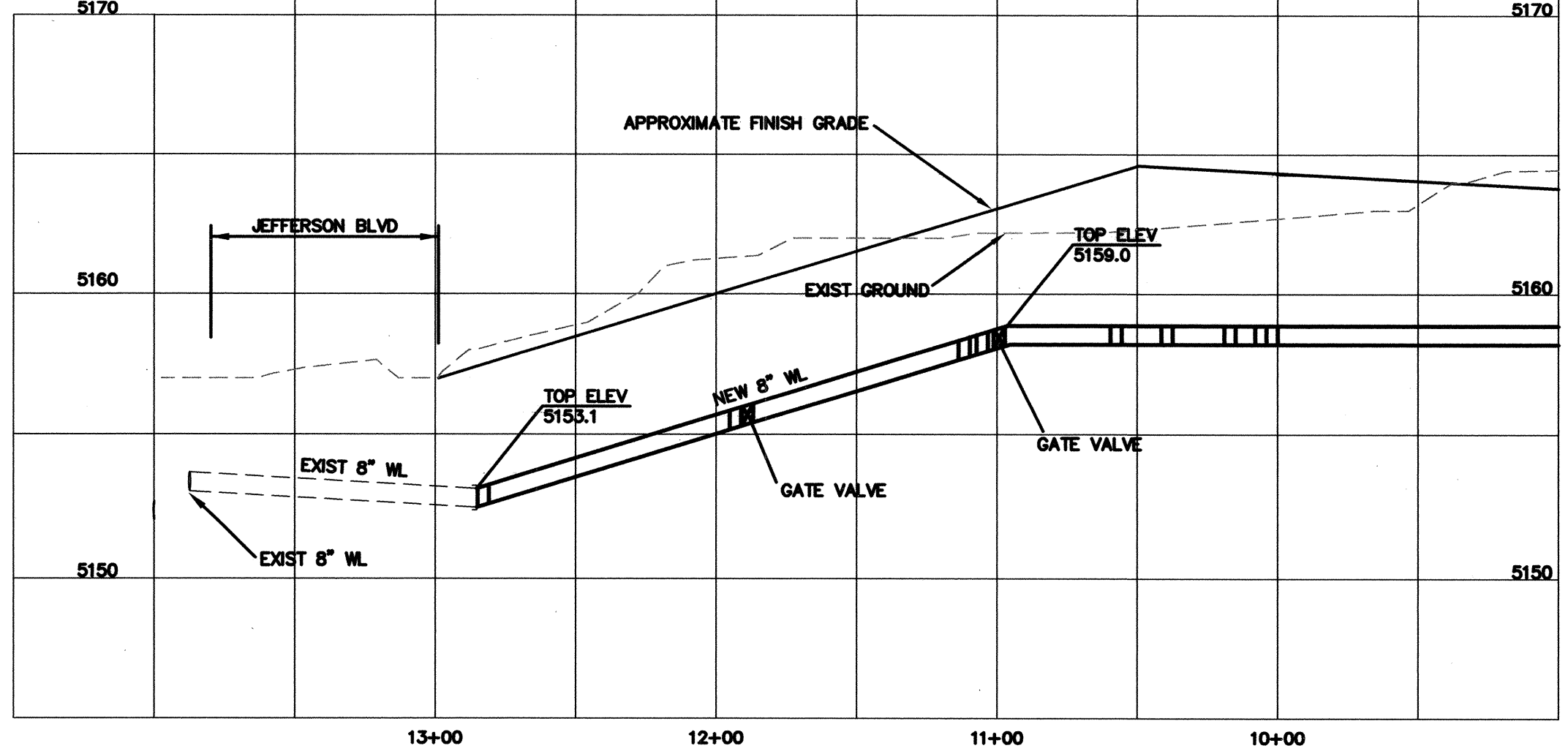
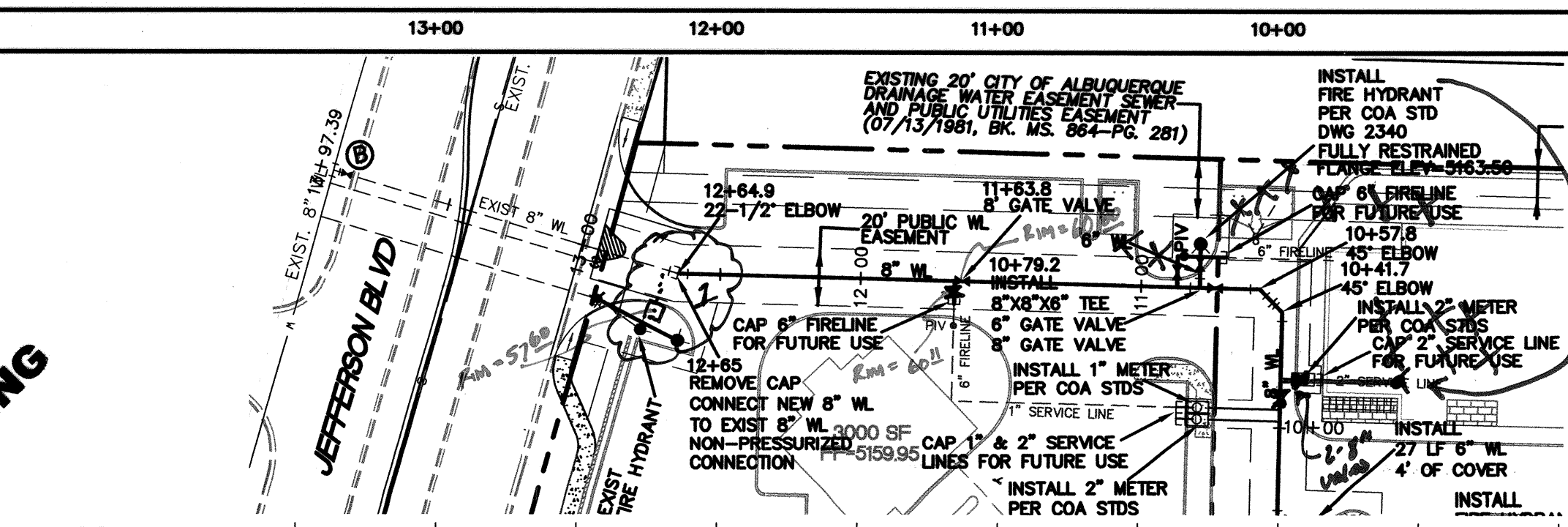


SECTION 1



SECTION 2

RECORD DRAWING



SECTION 3

**LEGEND**

|     |                              |
|-----|------------------------------|
| --- | EXISTING CURB & GUTTER       |
| --- | PROPOSED CURB & GUTTER       |
| --- | BOUNDARY LINE                |
| --- | EASEMENT                     |
| --- | CENTERLINE                   |
| --- | RIGHT-OF-WAY                 |
| --- | LOT LINES                    |
| --- | SETBACK LINE                 |
| --- | PROPOSED BUILDING            |
| --- | EXISTING SIDEWALK            |
| --- | PROPOSED SIDEWALK            |
| ●   | PROPOSED FIRE HYDRANT        |
| ○   | EXISTING SCREEN WALL         |
| ○   | EXISTING SAS MANHOLE         |
| --- | EXISTING SANITARY SEWER LINE |
| --- | PROPOSED SANITARY SEWER LINE |
| --- | EXISTING VALVE W/BOX         |
| --- | EXISTING FIRE HYDRANT        |
| --- | EXISTING WATER LINE          |
| --- | PROPOSED METER               |
| --- | PROPOSED VALVE W/BOX         |
| --- | PROPOSED WATER LINE          |
| --- | SERVICE                      |
| --- | FUTURE USE                   |

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES\*

| SIZE     | 5' | 4' | 3' | 2' | 1' | 0' |
|----------|----|----|----|----|----|----|
| 12x12x12 | 14 | 18 | 22 | 25 | 29 | 33 |
| 12x12x10 | 6  | 10 | 14 | 19 | 23 | 28 |
| 12x12x8  | 1  | 1  | 7  | 12 | 18 | 23 |
| 12x12x6  | 1  | 1  | 1  | 3  | 10 | 18 |
| 12x12x4  | 1  | 1  | 1  | 1  | 2  | 12 |
| 10x10x10 | 9  | 13 | 17 | 20 | 24 | 28 |
| 10x10x8  | 1  | 5  | 10 | 14 | 19 | 23 |
| 10x10x6  | 1  | 1  | 1  | 6  | 12 | 18 |
| 10x10x4  | 1  | 1  | 1  | 1  | 4  | 12 |
| 8x8x8    | 5  | 9  | 13 | 16 | 20 | 23 |
| 8x8x6    | 1  | 1  | 3  | 8  | 13 | 18 |
| 8x8x4    | 1  | 1  | 1  | 1  | 6  | 12 |
| 6x6x6    | 1  | 3  | 7  | 10 | 14 | 18 |
| 6x6x4    | 1  | 1  | 1  | 1  | 6  | 12 |

\*RESTRAINTS ONLY PLACED ON THE BRANCH  
\*LENGTH ALONG RUN REPEATED TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)

| SIZE | 90° | 45° | 22-1/2° | 11-1/4° | VALVES | DEAD END |
|------|-----|-----|---------|---------|--------|----------|
| 12   | 15  | 6   | 3       | 1       | 34     |          |
| 10   | 13  | 5   | 3       | 1       | 29     |          |
| 8    | 11  | 4   | 2       | 1       | 24     |          |
| 6    | 8   | 3   | 2       | 1       | 18     |          |
| 4    | 6   | 2   | 1       | N/A     | 13     |          |

RESTRAINED JOINT LENGTHS FOR REDUCERS\*\*\*

| SIZE  | L. SIDE | SIZE | L. SIDE |
|-------|---------|------|---------|
| 12x10 | 17      | 10x8 | 18      |
| 12x8  | 18      | 10x4 | 23      |
| 12x6  | 25      | 8x6  | 10      |
| 12x4  | 29      | 8x4  | 17      |
| 10x8  | 10      | 6x4  | 9       |

\*\*\*RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM  
SAFETY FACTOR: 1.5 TO 1  
PIPE MATERIAL: PVC  
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES  
TEST PRESSURE: 150 PSI  
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

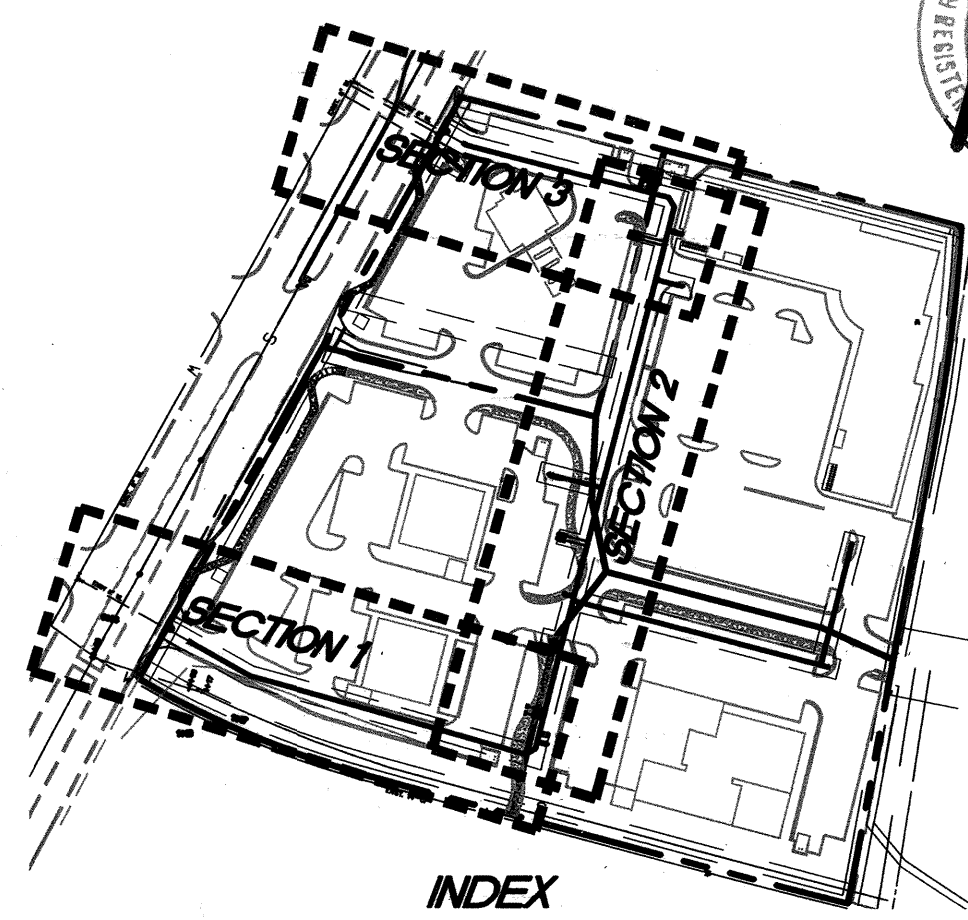
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RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)

| SIZE     | 90°       | 45° | 22-1/2° | 11-1/4° |
|----------|-----------|-----|---------|---------|
| 12 UPPER | DON'T USE | 14  | 7       | 1       |
| 12 LOWER | DON'T USE | 4   | 2       | 3       |
| 10 UPPER | DON'T USE | 12  | 6       | 1       |
| 10 LOWER | DON'T USE | 3   | 2       | 2       |
| 8 UPPER  | DON'T USE | 10  | 5       | 1       |
| 8 LOWER  | DON'T USE | 3   | 1       | 2       |
| 6 UPPER  | DON'T USE | 8   | 4       | N/A     |
| 6 LOWER  | DON'T USE | 2   | 1       | 1       |
| 4 UPPER  | DON'T USE | 5   | 1       | N/A     |
| 4 LOWER  | DON'T USE | 1   | 1       | N/A     |

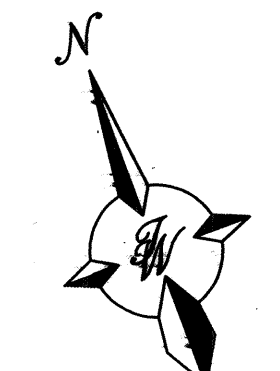
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RE-HAB EX 2" METER BOX  
PER COA STD DWG. 2367  
INSTALL 2" METER BOX  
INSTALL 2" LANDSCAPE METER

RECORD DRAWING



SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

TIERRA WEST, LLC  
5571 MIDWAY PARK PLACE NE  
ALBUQUERQUE, NEW MEXICO 87109  
(505)858-3100

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP  
TITLE: **FRATERNAL ORDER OF POLICE**  
ON-SITE WATER PLAN AND PROFILE

|                                                                                     |                                                                          |                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------|
| DESIGN REVIEW COMMITTEE<br><b>APPROVE</b><br>MAR 23 2007<br>DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL<br><b>APPROVE</b><br>FEB 21 2008<br>CITY ENGINEER | MO./DAY/YR.<br>MO./DAY/YR. |
| CITY PROJECT NO.<br>632482                                                          | ZONE MAP NO.<br>E-17-Z                                                   | SHEET<br>8 OF 8            |

| AS BUILT INFORMATION            |                 | BENCH MARKS                                                      |                 | SURVEY INFORMATION |      |
|---------------------------------|-----------------|------------------------------------------------------------------|-----------------|--------------------|------|
| CONTRACTOR<br>STAR PAVING       | DATE<br>2/20/07 | STANDARD A.C.S. BRASS TABLET<br>(FOUND IN PLACE)                 | DATE<br>2/20/07 | FIELD NOTES<br>NO. | BY   |
| INSPECTOR<br>COATERRA WEST      | DATE<br>2/20/07 | NEW MEXICO STATE PLANE COORDINATES<br>(CENTRAL ZONE-N.A.D. 1927) | DATE<br>2/20/07 | NO.                | DATE |
| FIELD ENGINEER<br>COATERRA WEST | DATE<br>2/20/07 | GROUND TO GRID FACTOR=0.99966232                                 | DATE<br>2/20/07 | NO.                | DATE |
| REVISIONS                       | DESIGN          | DESIGNED BY: MO                                                  | DATE            | NO.                | DATE |
| REVISIONS                       | DESIGN          | DRAWN BY: PM                                                     | DATE            | NO.                | DATE |
| REVISIONS                       | DESIGN          | DRAWN NAME: 2516-MUB.dwg                                         | DATE            | NO.                | DATE |
| REVISIONS                       | DESIGN          | CHECKED BY: MO                                                   | DATE            | NO.                | DATE |