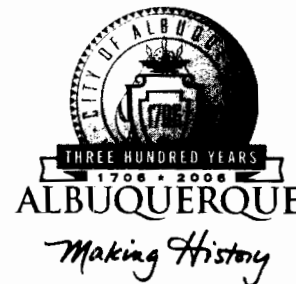


# CITY OF ALBUQUERQUE



March 1, 2005

Richard Hall, PE  
Bohannon Huston, Inc  
7500 Jefferson NE  
Albuquerque, NM 87109

**Re: Stonebridge Pointe, Parcels A & B Drainage Report**  
**Engineer's Stamp dated 12-6-04, (A12/D22)**

Dear Mr. Hall,

Based upon the information provided in your submittal dated 12-9-04, the above referenced report is approved for amendment to the Master Plan. It is also approved for mass grading of Parcel A. Please submit a mylar copy for my signature in order to obtain a Rough Grading Permit.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE  
Principal Engineer, Planning Dept  
Development and Building Services

C: file

P.O. Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

**DRAINAGE STUDY  
FOR THE  
STONEBRIDGE SUBDIVISION  
PARCELS A & B**

**November 16, 2004**

**PREPARED BY:**

**BOHANNAN HUSTON, INC.  
COURTYARD I  
7500 JEFFERSON STREET N.E.  
ALBUQUERQUE, NM 87109**

**PREPARED FOR:**

**BOB GAY  
NEW MEXICO UTILITIES, INC.  
4700 Irving Boulevard NW  
Suite 201  
Albuquerque, NM 87114-4281**

**PREPARED BY:**



  
Richard V. Hall, P.E.      Date 12/6/04

**Bohannon Huston** INC.

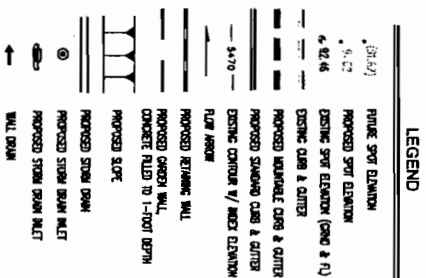
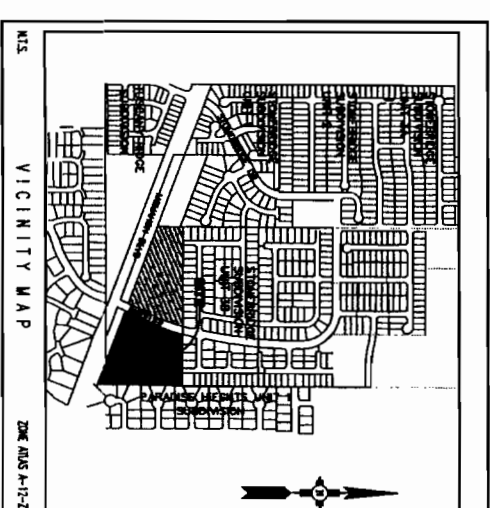
AHYMO PROGRAM SUMMARY TABLE (AHYMO\_97) -  
DATE (MON/DAY/YR) =11/16/2004  
INPUT FILE = 100YR.txt  
= AHYMO-S-9702c1BohanHu-AH

- VERSION: 1997.02c  
RUN  
USER NO.

| TO                                                                              | CFS            | PAGE = 1       | FROM | TO  | PEAK      | RUNOFF  | TIME     |
|---------------------------------------------------------------------------------|----------------|----------------|------|-----|-----------|---------|----------|
| PER                                                                             | COMMAND        | HYDROGRAPH     | ID   | ID  | DISCHARGE | VOLUME  | PEAK     |
| (HOURS)                                                                         | ACRE           | IDENTIFICATION | NO.  | NO. | (CFS)     | (AC-FT) | (INCHES) |
|                                                                                 |                | NOTATION       |      |     |           |         |          |
| *S NMUI WELL NO.8 REVISED BASINS--Stonebridge Pointe Subd. DEVELOPED CONDITIONS |                |                |      |     |           |         |          |
| START                                                                           |                |                |      |     |           |         |          |
| TIME=                                                                           | .00            |                |      |     |           |         |          |
| RAINFALL TYPE= 1                                                                |                |                |      |     |           |         |          |
| RAIN6=                                                                          | 2.200          |                |      |     |           |         |          |
| *S***Basin OFF 1A - Parcel A                                                    |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASINOFF1A     | -    | 1   | .00139    | .139    | 1.87288  |
|                                                                                 | 4.234 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin OFF 1B - Parcel A                                                    |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASINOFF1B     | -    | 5   | .00163    | .163    | 1.87288  |
|                                                                                 | 4.232 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin OFF 2 - Parcel A                                                     |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASINOFF2      | -    | 8   | .00097    | .097    | 1.87288  |
|                                                                                 | 4.242 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin 300 - Parcel A                                                       |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASIN300       | -    | 10  | .00269    | .269    | 1.87288  |
|                                                                                 | 4.225 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin 310 - Parcel A                                                       |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASIN310       | -    | 12  | .00150    | .150    | 1.87288  |
|                                                                                 | 4.232 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin 315A - Parcel A                                                      |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASIN315A      | -    | 14  | .00222    | .222    | 1.87288  |
|                                                                                 | 4.227 PER IMP= | 90.00          |      |     |           |         |          |
| *S***Basin X-1 - BANDELIER                                                      |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASINX-1       | -    | 16  | .00219    | .203    | 1.74119  |
|                                                                                 | 3.998 PER IMP= | 80.00          |      |     |           |         |          |
| *S***Basin 315B - BANDELIER                                                     |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASIN315B      | -    | 18  | .00096    | .089    | 1.74119  |
|                                                                                 | 4.009 PER IMP= | 80.00          |      |     |           |         |          |
| *S***Basin OFF 3 - Parcel B                                                     |                |                |      |     |           |         |          |
| 1.500                                                                           | COMPUTE NM HYD | BASINOFF3      | -    | 20  | .00174    | .171    | 1.83975  |
|                                                                                 | 4.146 PER IMP= | 90.00          |      |     |           |         |          |

|                             |                |       |    |        |       |         |
|-----------------------------|----------------|-------|----|--------|-------|---------|
| *S***Basin OFF 4 - Parcel B |                |       |    |        |       |         |
| COMPUTE NM HYD              | BASINOFF4      | -     | 22 | .00121 | 3.22  | .119    |
| 1.500                       | 4.152 PER IMP= | 90.00 |    |        |       | 1.83975 |
| *S***Basin 315C - Parcel B  |                |       |    |        |       |         |
| COMPUTE NM HYD              | BASIN315C      | -     | 24 | .00818 | 21.65 | .803    |
| 1.500                       | 4.136 PER IMP= | 90.00 |    |        |       | 1.83975 |
| *S***Basin WELL - Parcel B  |                |       |    |        |       |         |
| COMPUTE NM HYD              | BASINWELL      | -     | 26 | .00157 | 3.16  | .100    |
| 1.500                       | 3.142 PER IMP= | 25.00 |    |        |       | 1.19320 |
| FINISH                      |                |       |    |        |       |         |





| CD4P Data (2004) |         |         |
|------------------|---------|---------|
| Bush             | Average | Q (cfs) |
| OFF 1A           | 0.95    | 5.5     |
| OFF 1B           | 1.04    | 5.6     |
| OFF 2            | 0.62    | 2.5     |
| 500              | 1.66    | 6.0     |
| 510              | 0.96    | 5.5     |
| 515-A            | 1.42    | 5.2     |
| 515-B            | 0.61    | 2.5     |
| 515-C            | 5.25    | 21.7    |
| X1               | 1.4     | 5.6     |
| OFF 5            | 1.11    | 4.6     |
| OFF 4            | 0.77    | 5.2     |

**SITE DEVELOPMENT PLAN  
FOR BUILDING PERMIT**

---

**GRADING AND DRAINAGE PLAN**



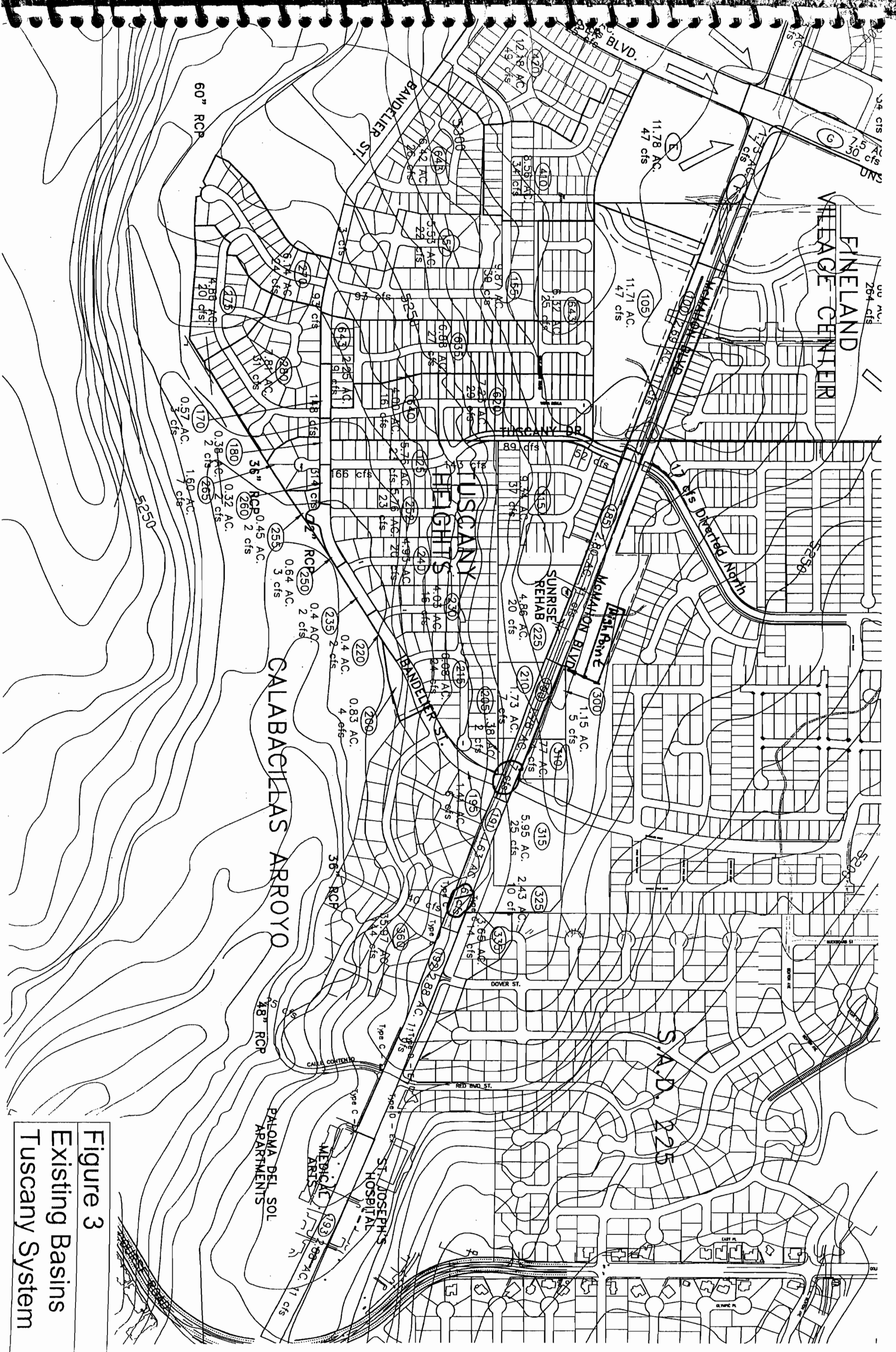


Figure 3  
Existing Basins  
Tuscany System

## Marble Stone Drive

The critical grade found at the midpoint of Basin W can facilitate a maximum of 16.0 cfs. Basin W produces 7.3 cfs at its outfall, which suggests approximately 3.7 cfs at its midpoint, at the critical grade.

$$16.0(\text{cfs}) - 3.7(\text{cfs}) = 12.3(\text{cfs})$$

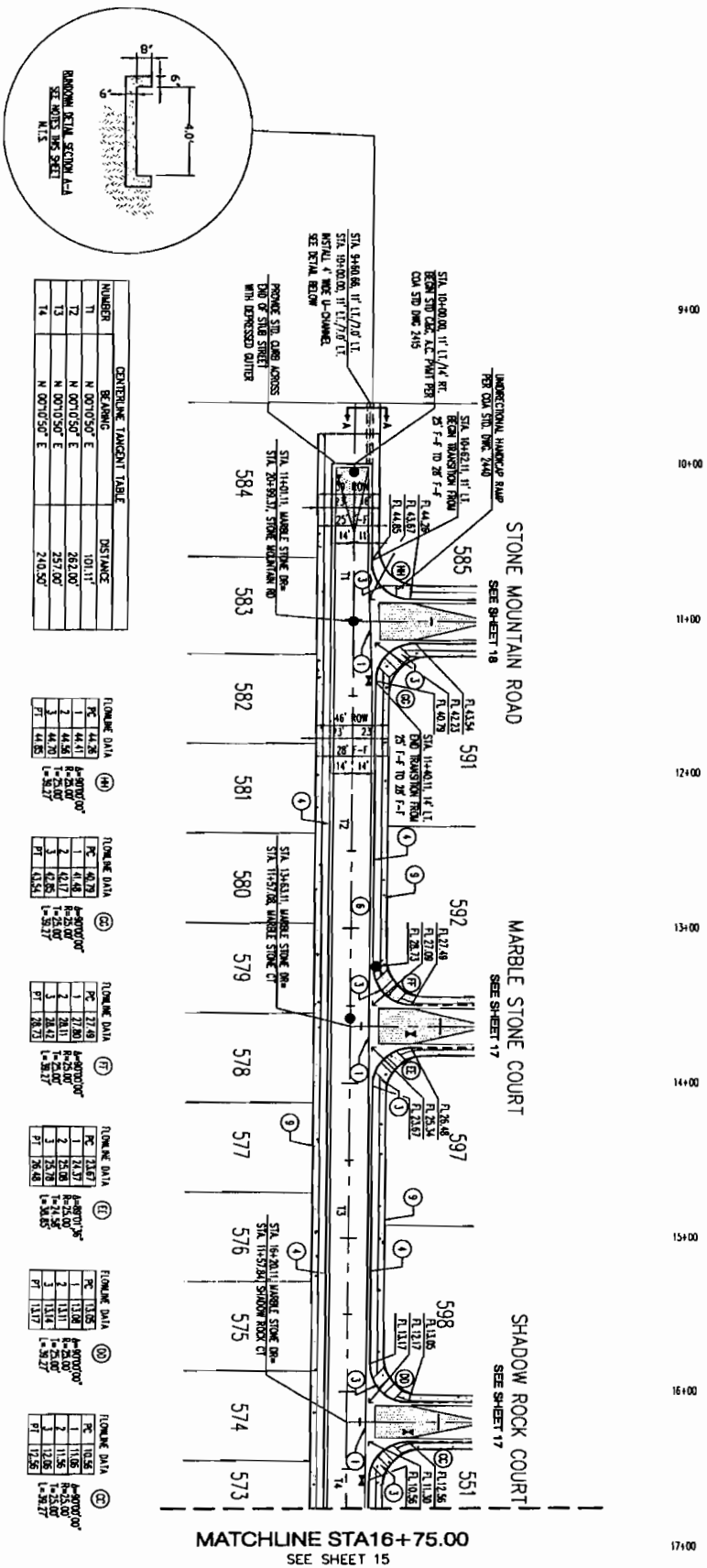
12.3 cfs can be added from offsite basins draining into Marble Stone Dr.

### Inlets:

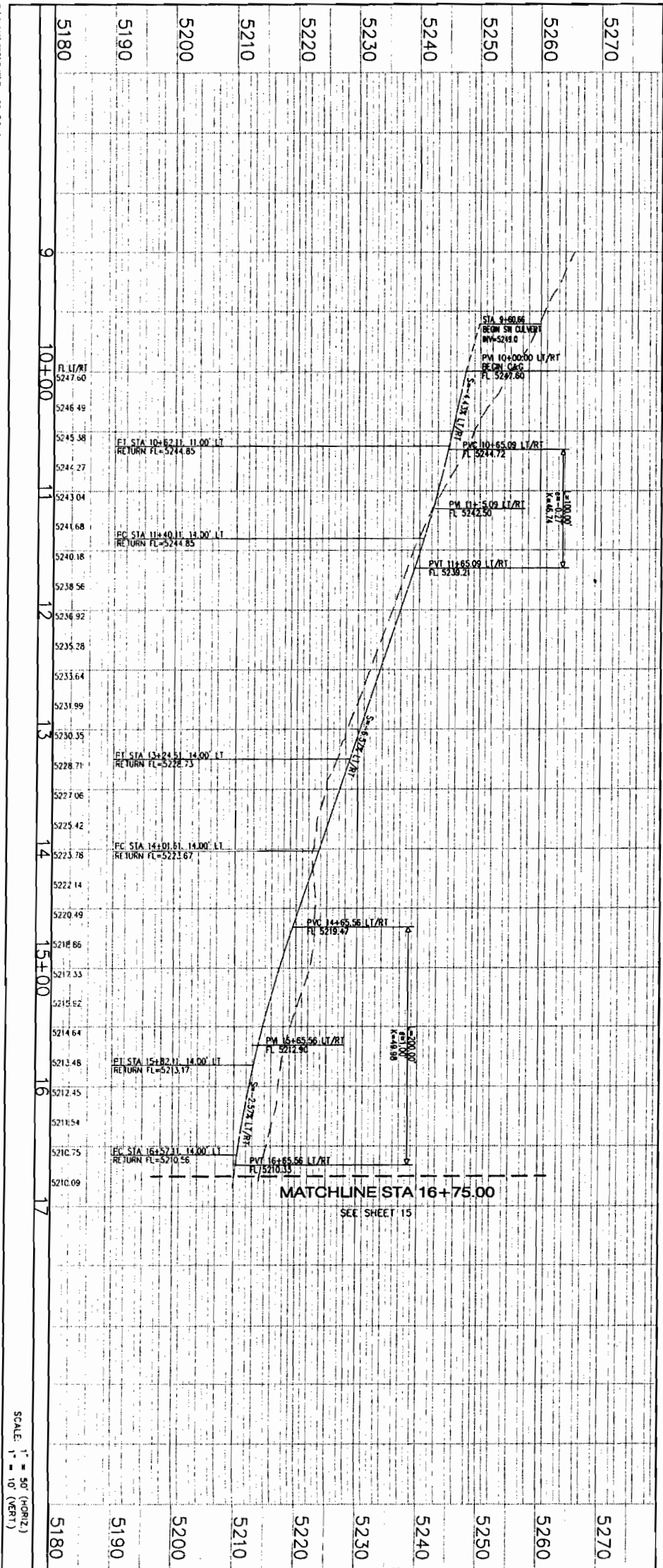
3 sets of two inlets exist.

From south to north: (2) Type A inlets @ 2.44% slope  
(2) Type A inlets @ 0.50% slope  
(2) Type C inlets @ 0.50% slope- at northern stub- see PNP.

**\*\*Inlets not analyzed since capacity met before inlets reached.**



MARBLE STONE DRIVE



City of Albuquerque  
Public Works Department  
Stonebridge Subdivision Units 5 & 3C  
Paving Plan and Profile  
Marble Stone Drive STA 10+00 TO STA 16+75

Design Review Committee  
City Engineer Approval  
Last Design Update  
No. 05/07/07  
No. 05/07/07

City Project No. 669581  
Zone Map No. A-12-Z  
Sheet 14 of 38

ENGINEER'S SEAL  
SURVEY INFORMATION  
BENCH MARKS  
AS-BUILT INFORMATION

DESIGNED BY: EES  
DRAWN BY: LSM/KSH  
CHECKED BY: RLB

DATE: 04/01  
DATE: 04/01  
DATE: 04/01

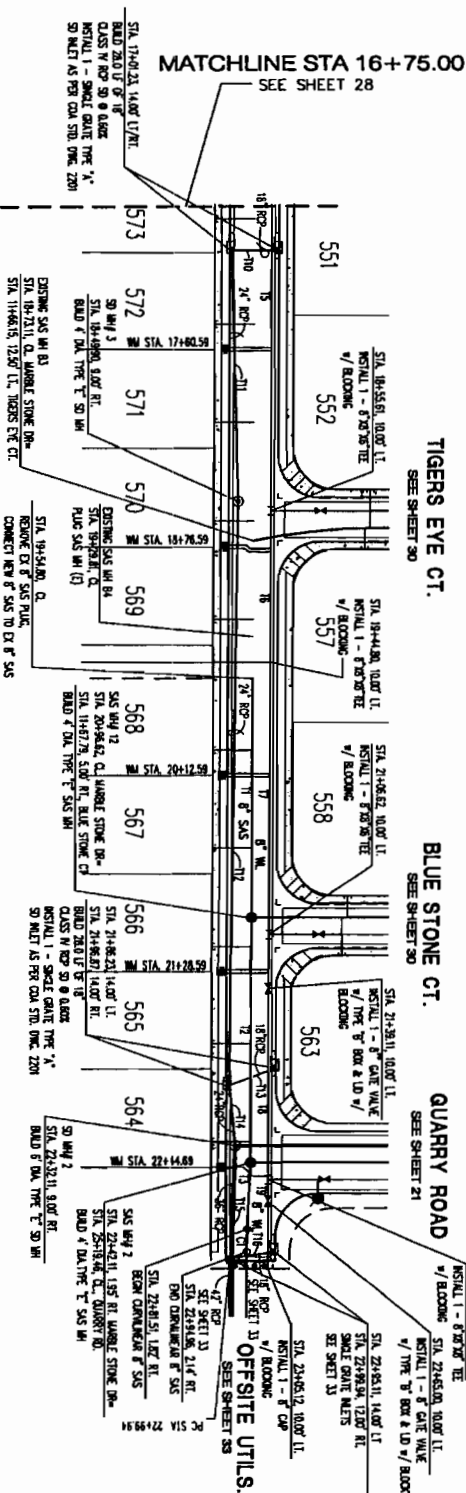
16+00  
17+00  
18+00  
19+00  
20+00  
21+00  
22+00  
23+00

TIGERS EYE CT.  
SEE SHEET 30

BLUE STONE CT.  
SEE SHEET 30

QUARRY ROAD  
SEE SHEET 21

50' 25' 0' 25' 50'



| NUMBER | SIZE         | LENGTH |
|--------|--------------|--------|
| 11     | 12" S 100' W | 14.00' |
| 12     | 12" S 100' W | 14.00' |
| 13     | 12" S 100' W | 14.00' |

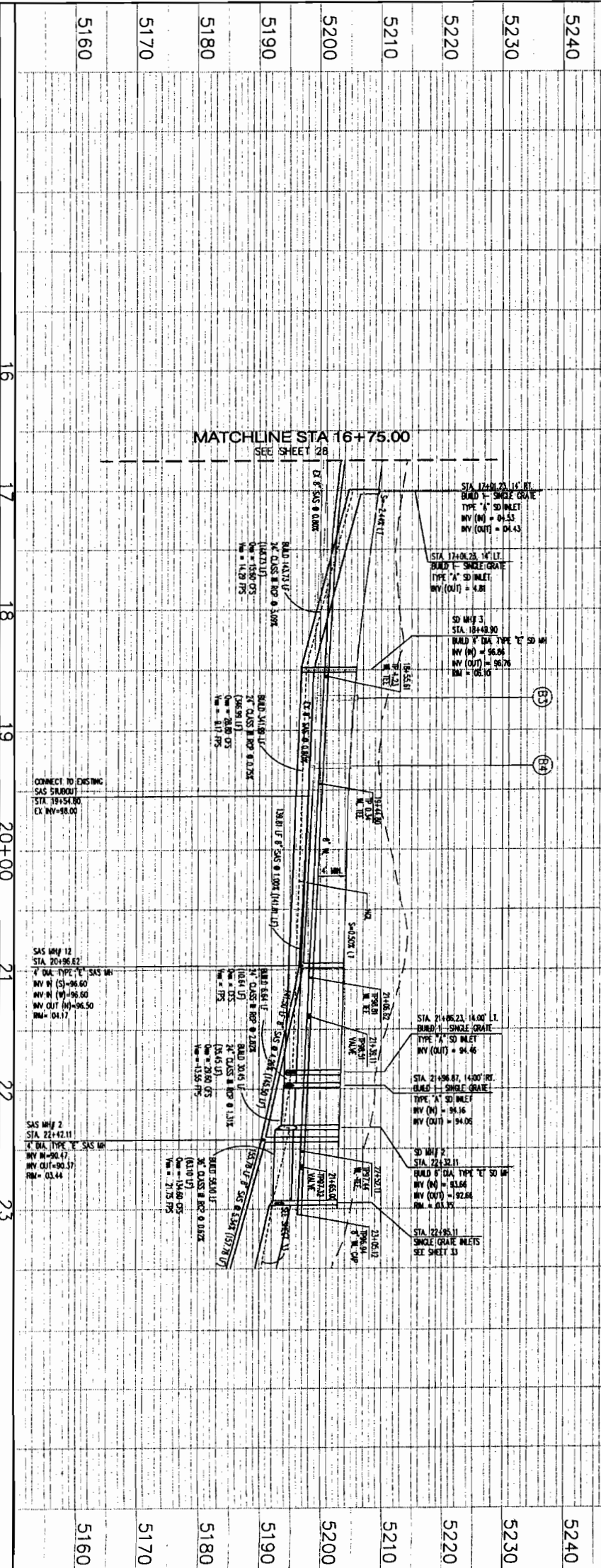
| NUMBER | SIZE         | LENGTH |
|--------|--------------|--------|
| 14     | 12" S 100' W | 14.00' |
| 15     | 12" S 100' W | 14.00' |
| 16     | 12" S 100' W | 14.00' |

| NUMBER | SIZE         | LENGTH |
|--------|--------------|--------|
| 17     | 12" S 100' W | 14.00' |
| 18     | 12" S 100' W | 14.00' |
| 19     | 12" S 100' W | 14.00' |

| STATION | INVERT | PIPE         | LENGTH |
|---------|--------|--------------|--------|
| 16+00   | 21.45  | 12" S 100' W | 14.00' |
| 17+00   | 21.45  | 12" S 100' W | 14.00' |
| 18+00   | 21.45  | 12" S 100' W | 14.00' |

- GENERAL NOTES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND NOTICES FROM THE CITY OF ALBUQUERQUE AND THE NEW MEXICO DEPARTMENT OF REVENUE AND FINANCE.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE SPECIFICATIONS AND THE NEW MEXICO DEPARTMENT OF REVENUE AND FINANCE SPECIFICATIONS.
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  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE SPECIFICATIONS AND THE NEW MEXICO DEPARTMENT OF REVENUE AND FINANCE SPECIFICATIONS.

MARBLE STONE DRIVE



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

CITY PROJECT NO. 669581

Zone Map No. A-12-Z

Sheet 29 of 38

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

STONEBRIDGE SUBDIVISION UNITS 5 & 3C  
UTILITY PLAN AND PROFILE  
MARBLE STONE DRIVE STA 16+75 TO STA 22+95.11

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

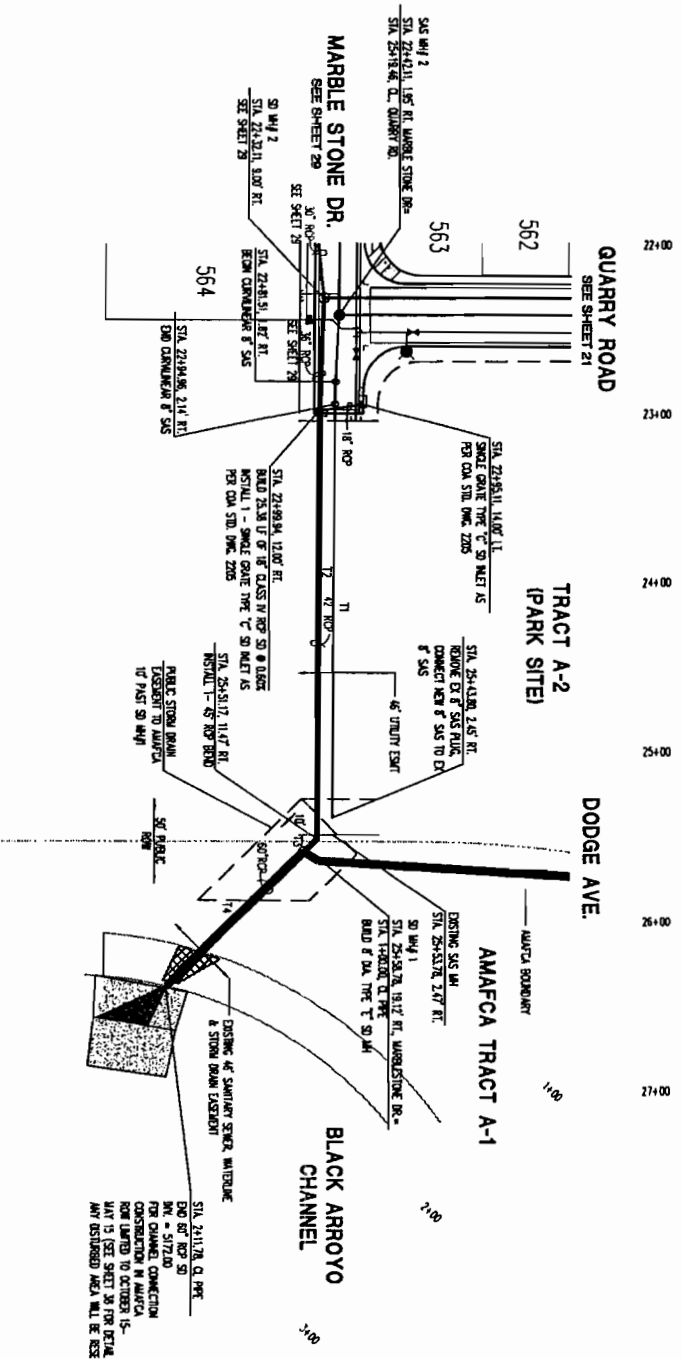
| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |

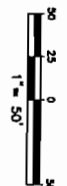
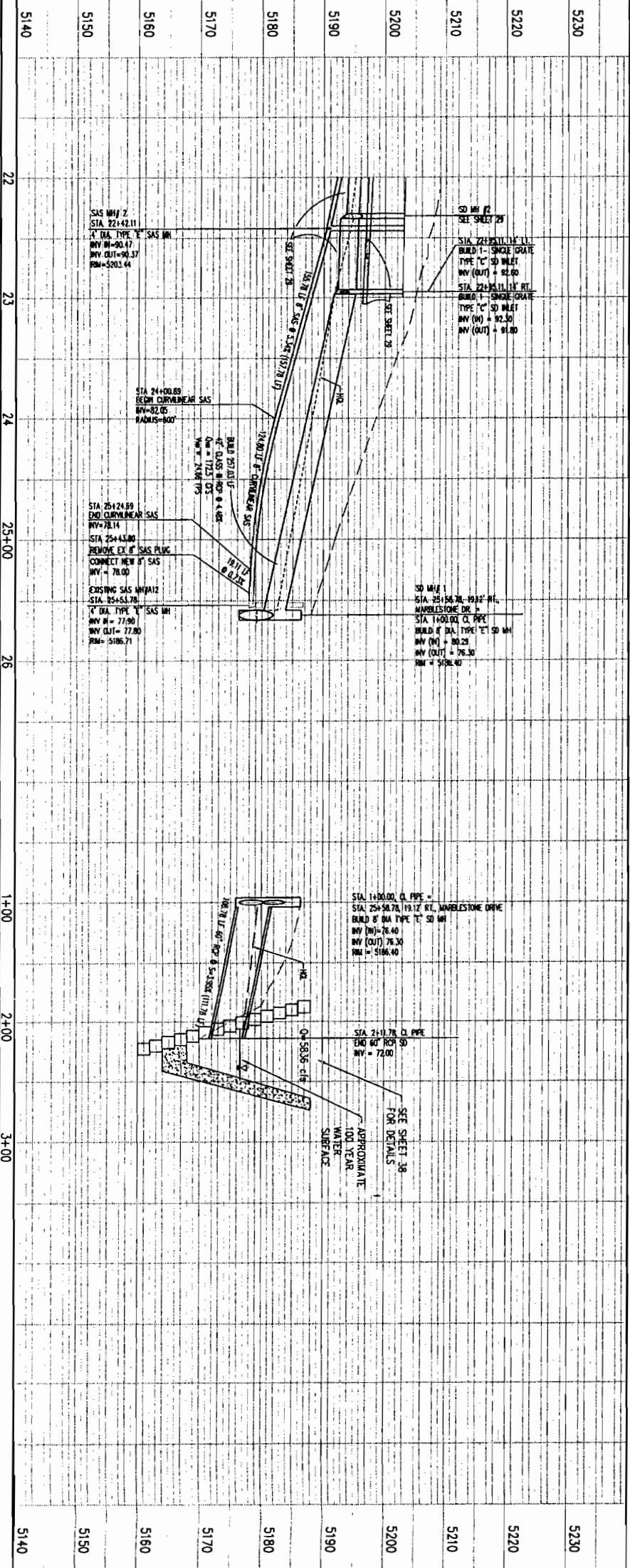
| DESIGNED BY | EES     |
|-------------|---------|
| DRAWN BY    | LSM/KSH |
| CHECKED BY  | RLB     |
| DATE        | 04/01   |



| SAS TANGENT TABLE |               |        |
|-------------------|---------------|--------|
| NUMBER            | BEARING       | LENGTH |
| 11                | N 00°15'00" E | 24.31' |

| STORM DRAIN TANGENT TABLE |      |               |
|---------------------------|------|---------------|
| NUMBER                    | SIZE | BEARING       |
| 12                        | 48"  | N 07°15'32" E |
| 13                        | 48"  | S 45°10'15" W |
| 14                        | 60"  | S 45°19'15" W |

## MARBLE STONE & PARK ESMT / SD MH #1 TO CHANNEL



- GENERAL NOTES**
- THE CONTRACTOR SHALL FURNISH ALL NECESSARY UTILITY LOCATIONS AND DEPTHS TO THE CONTRACTOR'S SATISFACTION.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AS APPLICABLE.
  - THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE EROSION CONTROL MEASURES.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE COMMUNICATIONS.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE INSPECTION.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE CLEANUP.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE PROTECTION.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE SECURITY.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE INSPECTION.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE CLEANUP.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE PROTECTION.
  - THE CONTRACTOR SHALL MAINTAIN ADEQUATE SECURITY.

| SURVEY INFORMATION |    |      |
|--------------------|----|------|
| NO.                | BY | DATE |
| 1                  | BY | DATE |
| 2                  | BY | DATE |
| 3                  | BY | DATE |
| 4                  | BY | DATE |
| 5                  | BY | DATE |
| 6                  | BY | DATE |
| 7                  | BY | DATE |
| 8                  | BY | DATE |
| 9                  | BY | DATE |
| 10                 | BY | DATE |
| 11                 | BY | DATE |
| 12                 | BY | DATE |
| 13                 | BY | DATE |
| 14                 | BY | DATE |
| 15                 | BY | DATE |
| 16                 | BY | DATE |
| 17                 | BY | DATE |
| 18                 | BY | DATE |
| 19                 | BY | DATE |
| 20                 | BY | DATE |

| BENCH MARKS |    |      |
|-------------|----|------|
| NO.         | BY | DATE |
| 1           | BY | DATE |
| 2           | BY | DATE |
| 3           | BY | DATE |
| 4           | BY | DATE |
| 5           | BY | DATE |
| 6           | BY | DATE |
| 7           | BY | DATE |
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| 12          | BY | DATE |
| 13          | BY | DATE |
| 14          | BY | DATE |
| 15          | BY | DATE |
| 16          | BY | DATE |
| 17          | BY | DATE |
| 18          | BY | DATE |
| 19          | BY | DATE |
| 20          | BY | DATE |

| AS-BUILT INFORMATION |    |      |
|----------------------|----|------|
| NO.                  | BY | DATE |
| 1                    | BY | DATE |
| 2                    | BY | DATE |
| 3                    | BY | DATE |
| 4                    | BY | DATE |
| 5                    | BY | DATE |
| 6                    | BY | DATE |
| 7                    | BY | DATE |
| 8                    | BY | DATE |
| 9                    | BY | DATE |
| 10                   | BY | DATE |
| 11                   | BY | DATE |
| 12                   | BY | DATE |
| 13                   | BY | DATE |
| 14                   | BY | DATE |
| 15                   | BY | DATE |
| 16                   | BY | DATE |
| 17                   | BY | DATE |
| 18                   | BY | DATE |
| 19                   | BY | DATE |
| 20                   | BY | DATE |

**CITY OF ALBUQUERQUE**  
**PUBLIC WORKS DEPARTMENT**  
**STONEBRIDGE SUBDIVISION UNITS 5 & 3C**  
**MARBLE STONE & PARK UTILITY EASEMENT**

Design Review Committee City Engineer Approval

City Project No. 669581 Zone Map No. A-12-Z Sheet 33 of 38

Scale: 1" = 50' (HORIZ.)  
1" = 10' (VERT.)

DRB# 1000444

### Bandelier Drive

North from the high point in Bandelier Dr., a 5.8% slope can facilitate 25.5 cfs. At this point, approximately half of the runoff from Basin X has developed, thus:

$$25.5(\text{cfs}) - 4.49/2(\text{cfs}) = 23.25(\text{cfs})$$

At the north end of Basin X where its runoff is fully developed, the slope is 5.2% which can facilitate 29.1 cfs.

$$29.1(\text{cfs}) - 4.49(\text{cfs}) = 24.61(\text{cfs})$$

At the north end of Basin Z1- approximated near the intersection of Bandelier Dr. and Quarry Rd., the slope is 4.7% which translates to 30.2 cfs.

$$30.2(\text{cfs}) - 4.49(\text{cfs}) - 7.16(\text{cfs}) = 18.55(\text{cfs})$$

### Inlets:

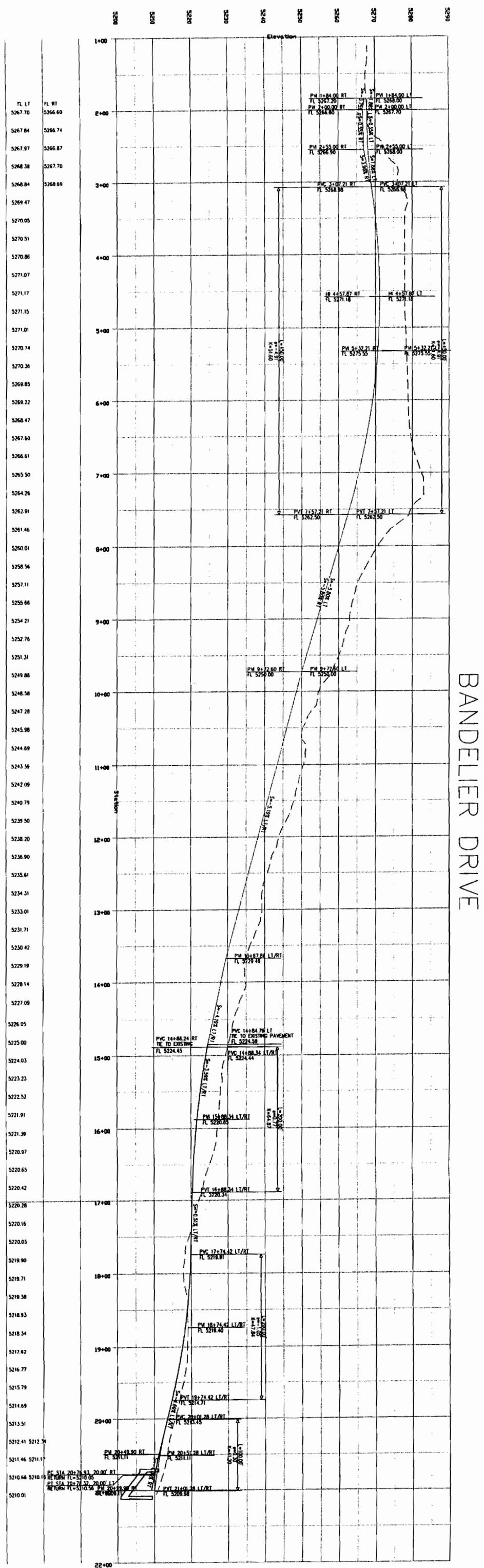
1 set of two inlets exists.

(2) Type A inlets @ 4.0% slope - Each inlet can accept 13.5 cfs

### Quarry Road

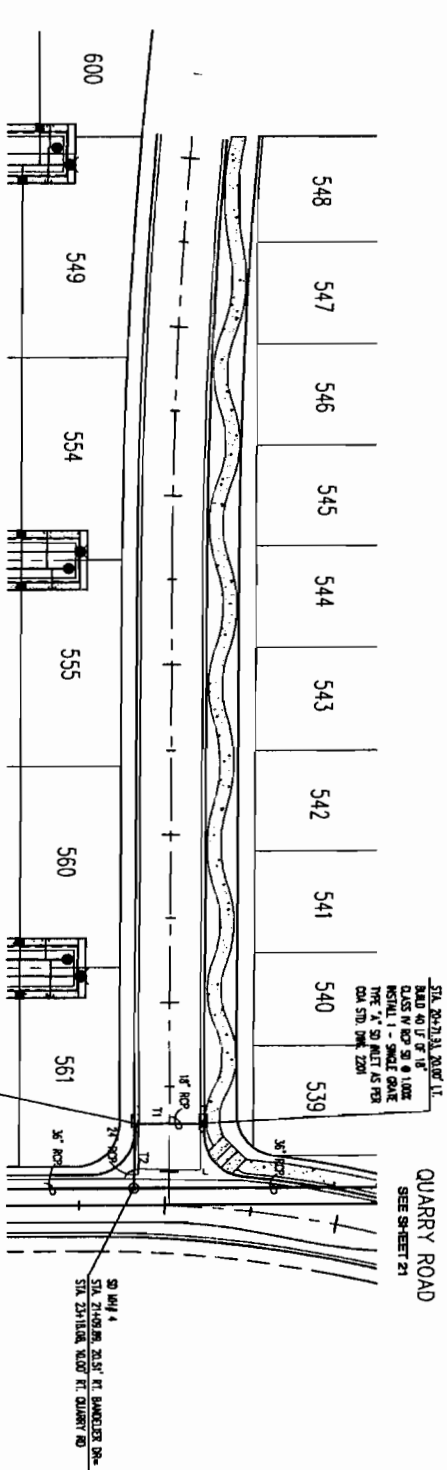
Since Bandelier Dr. inlets will accept a majority of incoming street flow, no analysis of Quarry Rd. is necessary.

$$27.7(\text{cfs}) - 2*13.5(\text{cfs}) = 0.7(\text{cfs}) \text{ transferred into Quarry Rd.}$$



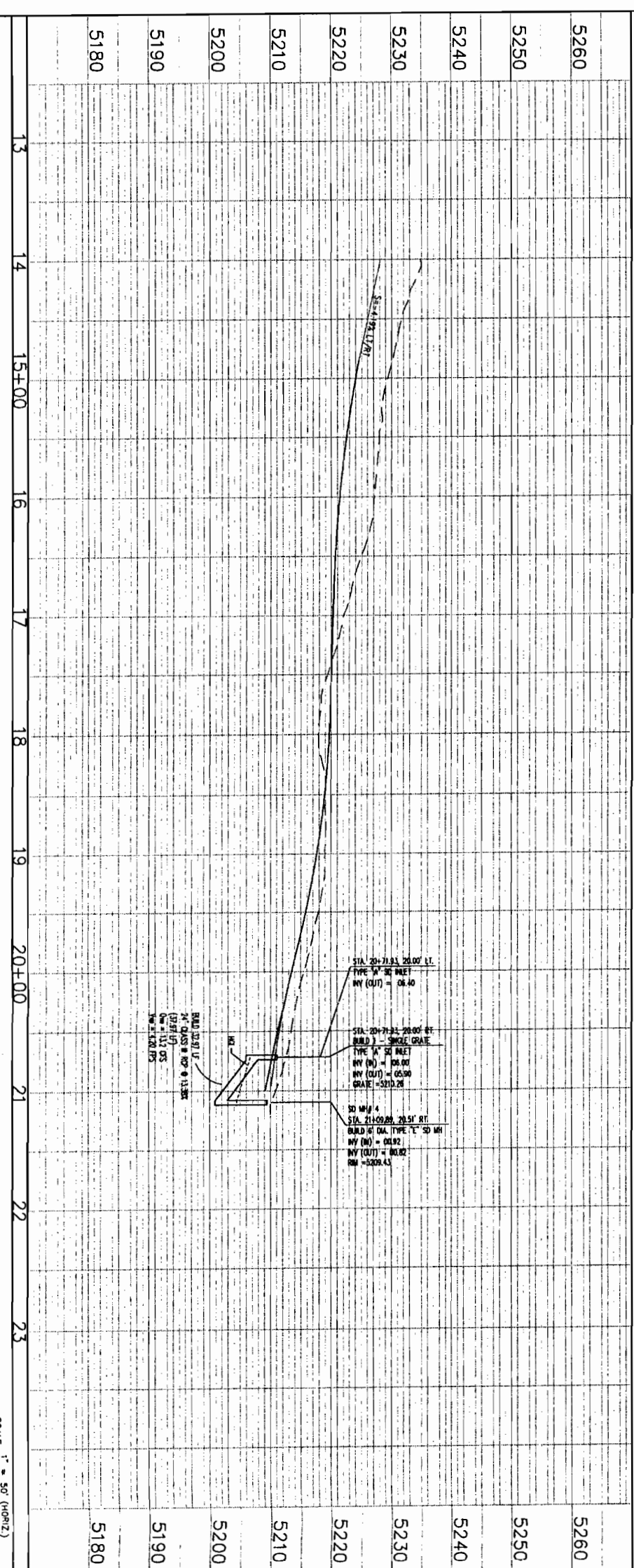


15+00 16+00 17+00 18+00 19+00 20+00 21+00



| NUMBER | SIZE | STATION        | LENGTH |
|--------|------|----------------|--------|
| 11     | 18"  | 15+00 TO 15+50 | 50.00' |
| 12     | 24"  | 15+50 TO 16+00 | 50.00' |

BANDELLER DRIVE



SCALE: 1" = 50' (HORIZ.)  
1" = 10' (VERT.)

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. ANY UNEXPECTED OBSTRUCTIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, N.M.T.C.D. (2003).
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE COMMUNICATIONS THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE INSPECTION THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE CLEANUP THROUGHOUT THE PROJECT.

LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER METER VALVE
- WATER LINE SAUTOFF VALVE
- WATER LINE TE
- SAS LATERAL
- STON DRAIN MANHOLE
- STON DRAIN MILET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED STREET LIGHT



APPROVED BY NEW MEXICO UTILITIES INC.

SIGNATURE DATE

Bohannon

Contract No. 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

DESIGNED BY: EES DATE: 04/01

DRAWN BY: LSM/KSH DATE: 04/01

CHECKED BY: RLB DATE: 04/01

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

STONEBRIDGE SUBDIVISION UNITS 5 & 3C  
UTILITY PLAN AND PROFILE  
BANDELLER DRIVE

Design Review Committee City Engineer Approval

Ms./Dsr/7% Ms./Dsr/7%

City Project No. 669581 Zone Map No. A-12-Z

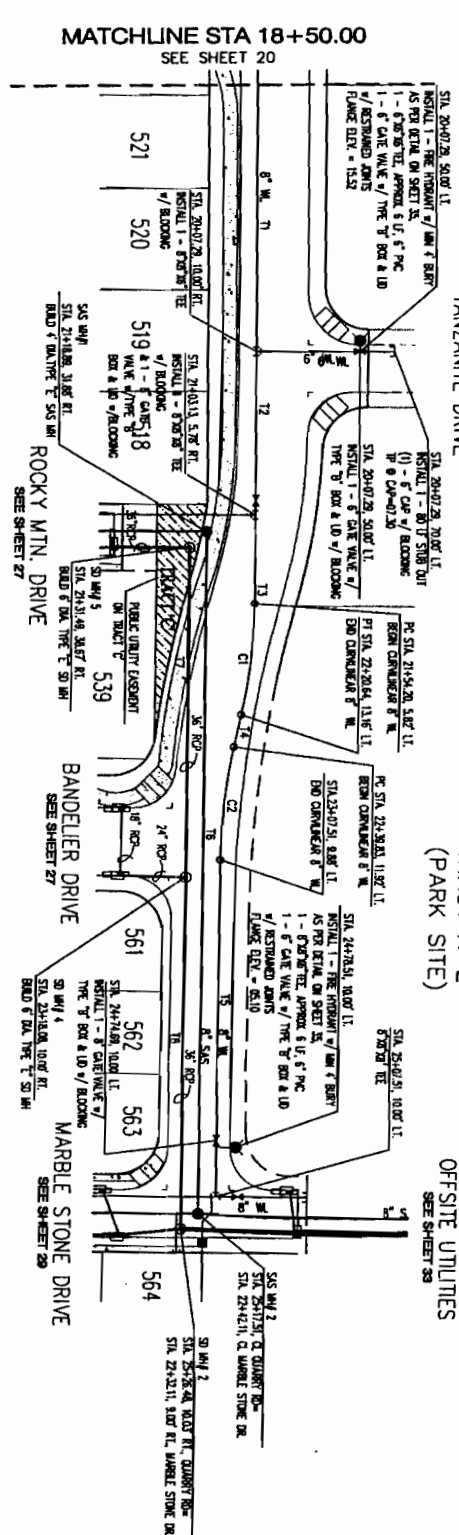
Last Design Update Sheet 27 of 38

DRB# 1000444

18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

FUTURE STONEBRIDGE  
UNIT 6  
TANZANITE DRIVE

TRACT A-2  
(PARK SITE)  
OFFSITE UTILITIES  
SEE SHEET 23



WATERLINE CURVE TABLE

| NUMBER | POINTS  | LENGTH | DELTA   | TANGENT |
|--------|---------|--------|---------|---------|
| C1     | 310.00' | 65.98' | 127.13° | 33.11'  |
| C2     | 310.00' | 65.97' | 127.10° | 33.42'  |

SAS TANGENT TABLE

| NUMBER | BEARING       | LENGTH  |
|--------|---------------|---------|
| T1     | N 89°42'11" W | 300.00' |
| T2     | N 89°42'11" W | 94.21'  |
| T3     | N 89°42'11" W | 52.17'  |
| T4     | N 77°35'44" W | 18.43'  |
| T5     | N 89°48'10" W | 195.79' |

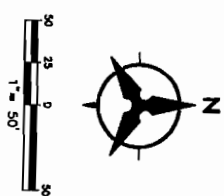
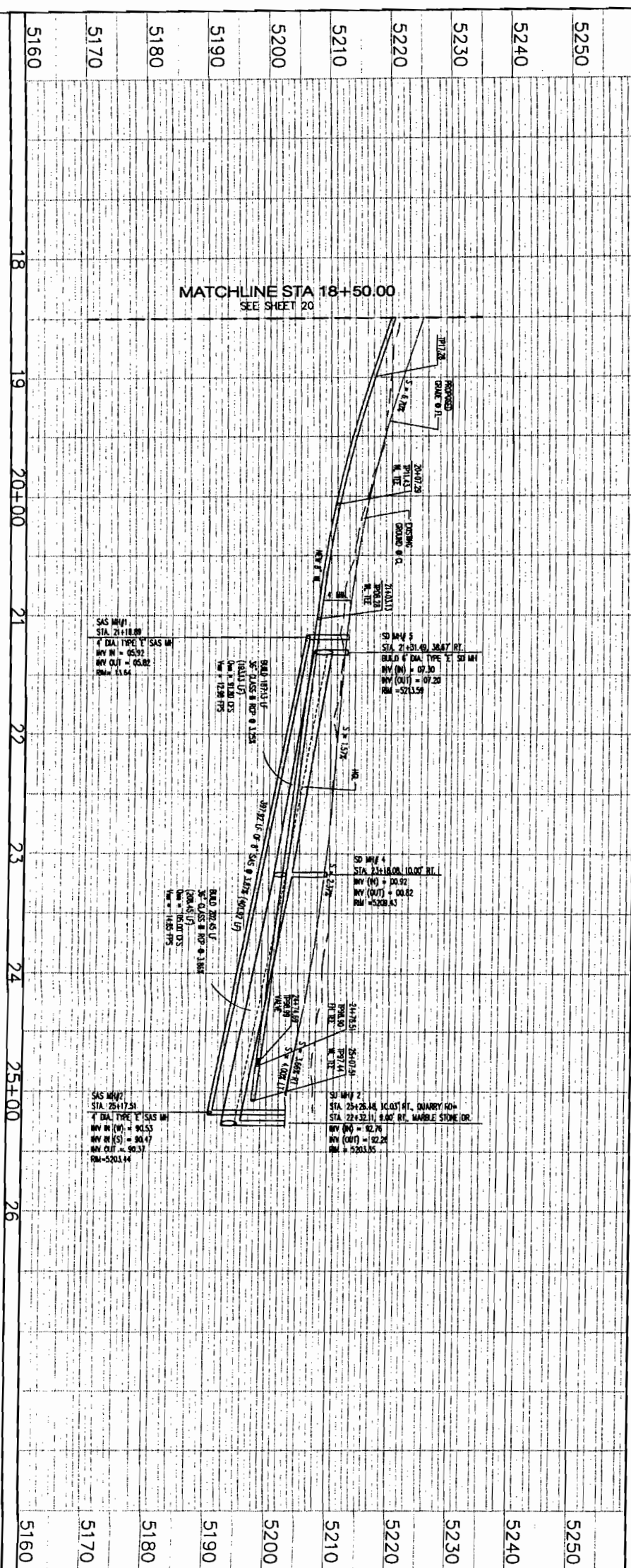
STONE DRAIN TANGENT DATA

| NUMBER | SIZE | BEARING       | LENGTH  |
|--------|------|---------------|---------|
| T7     | 36"  | N 89°48'10" W | 193.13' |
| T8     | 36"  | N 89°48'10" W | 208.45' |

WATERLINE TANGENT TABLE

| NUMBER | BEARING       | LENGTH  |
|--------|---------------|---------|
| T1     | N 89°42'11" W | 300.00' |
| T2     | N 89°42'11" W | 94.21'  |
| T3     | N 89°42'11" W | 52.17'  |
| T4     | N 77°35'44" W | 18.43'  |
| T5     | N 89°48'10" W | 195.79' |

QUARRY ROAD



GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF ALBUQUERQUE AND THE NEW MEXICO DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF ALBUQUERQUE AND THE NEW MEXICO DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT.
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- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

AS-BUILT INFORMATION

| CONTRACTOR        | DATE     |
|-------------------|----------|
| BOHANNAN & HUSTON | 04/01/01 |

MICRO-FILM INFORMATION

| RECORDED BY       | DATE     |
|-------------------|----------|
| BOHANNAN & HUSTON | 04/01/01 |

ENGINEER'S SEAL

SURVEY INFORMATION

| NO. | BY                | DATE     |
|-----|-------------------|----------|
| 1   | BOHANNAN & HUSTON | 04/01/01 |

LEGEND

- DOUBLE WATER LINE
- SINGLE WATER LINE
- WATER LINE VALVE
- WATER LINE SHUTTER VALVE
- WATER LINE FITTING
- SAS MANHOLE
- STONE DRAIN MANHOLE
- STONE DRAIN MANHOLE
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED STREET LIGHT

APPROVED BY NEW MEXICO UTILITIES, INC.

SIGNATURE: Bohannon & Huston DATE: 04/01/01

DESIGNED BY: EES DATE: 04/01/01

DRAWN BY: LSM/KSH DATE: 04/01/01

CHECKED BY: RLB DATE: 04/01/01

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
STONEBRIDGE SUBDIVISION UNITS 5 & 3C  
UTILITY PLAN AND PROFILE  
QUARRY ROAD STA 18+50 TO 25+17.51

Design Review Committee City Engineer Approval

City Project No. 669561 Zone Map No. A-12-Z Sheet 21 of 38

### **Bandelier Drive and McMahon Boulevard (Intersection)**

According to *Plate 4 Storm Drain Systems in Vicinity of Tuscany West, Lands of Roberts and Tuscany Subdivisions* prepared by Community Sciences Corporation, there was an allotment made for two inlets in McMahon Blvd (one on north side and one on the south side) each projected to accept 20 cfs for a total of 40 cfs to enter the SD line at this point.

According to the *McMahon Boulevard Drainage Management Plan* prepared by Gannett Fleming West Inc., Basin 190 (Figure 3 – Existing Basins Tuscany Systems) extends to a high point in McMahon and produces 7 cfs which also enters into the two storm drain inlets.

$$40(\text{cfs}) - 7(\text{cfs}) = 33(\text{cfs}) \text{ capacity remaining in inlets}$$

McMahon Blvd also has additional capacity that was not analyzed in this report. Developed flows do not exceed this value.

### **McMahon Boulevard at Well Site No. 8**

According to *Plate 4 Storm Drain Systems in Vicinity of Tuscany West, Lands of Roberts and Tuscany Subdivisions* prepared by Community Sciences Corporation, there was an allotment made for 32.9 cfs to enter the SD line. Developed flows do not exceed this value.

### **Total Capacity**

Total capacity for McMahon storm drain before outfall pipe is 72.9 cfs. 7 cfs of this is used by inflow from Basin 190, for a remaining allowance of 65.9 cfs to enter the 30" storm drain.

$$40(\text{cfs}) + 32.9(\text{cfs}) - 7(\text{cfs}) = 65.9(\text{cfs})$$

**\*\*FOR TOTAL CAPACITY, allowable McMahon Blvd street capacity must be analyzed. It was not analyzed in this report due to sufficiently lower values of runoff resulting from Parcels A & B developed conditions.**