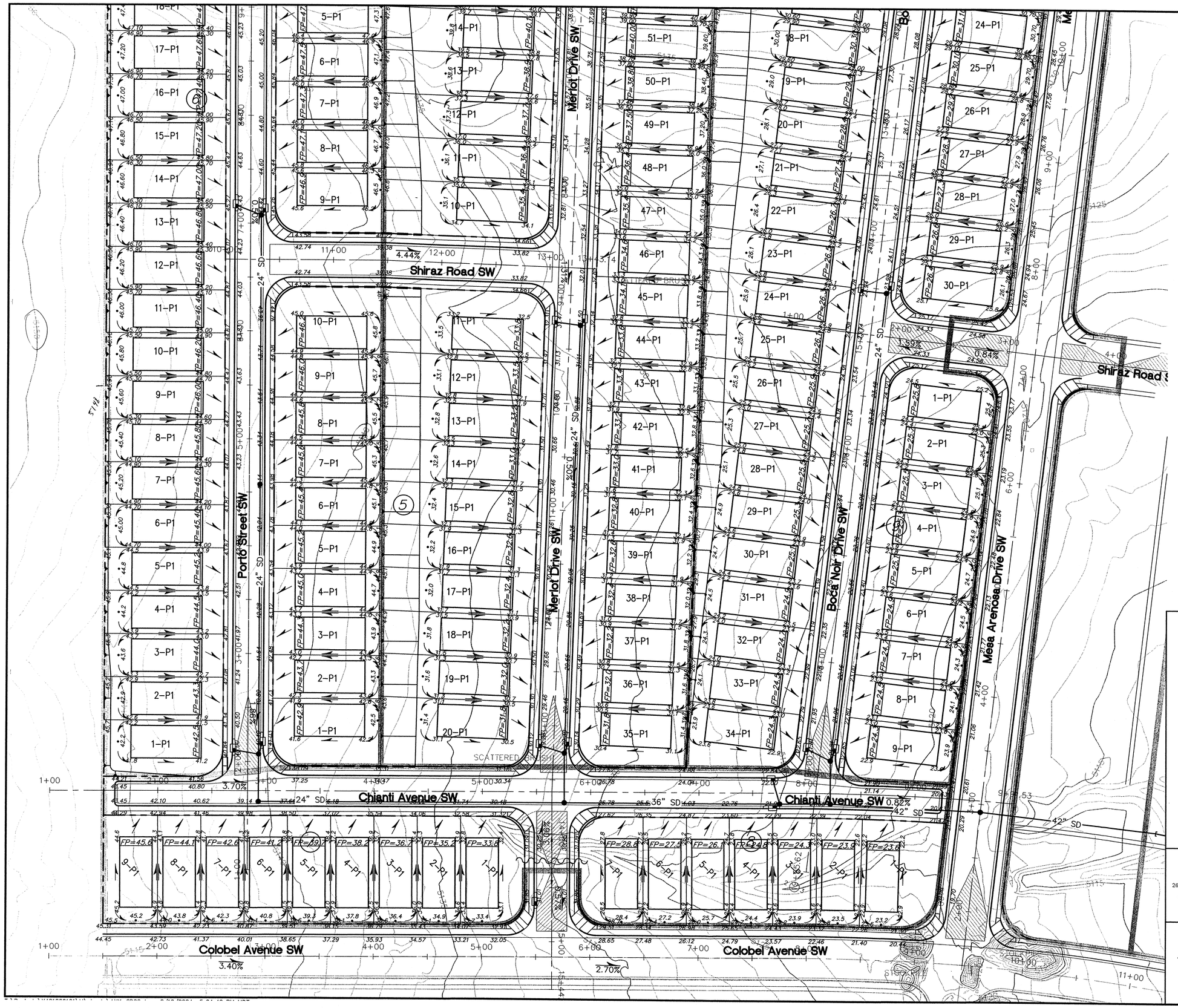


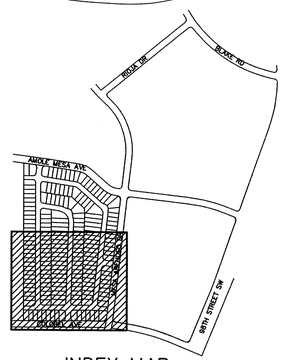
LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- xx.xx ℄ LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET

N

GRAPHIC SCALE

SCALE: 1 INCH = 40 FT.



INDEX MAP

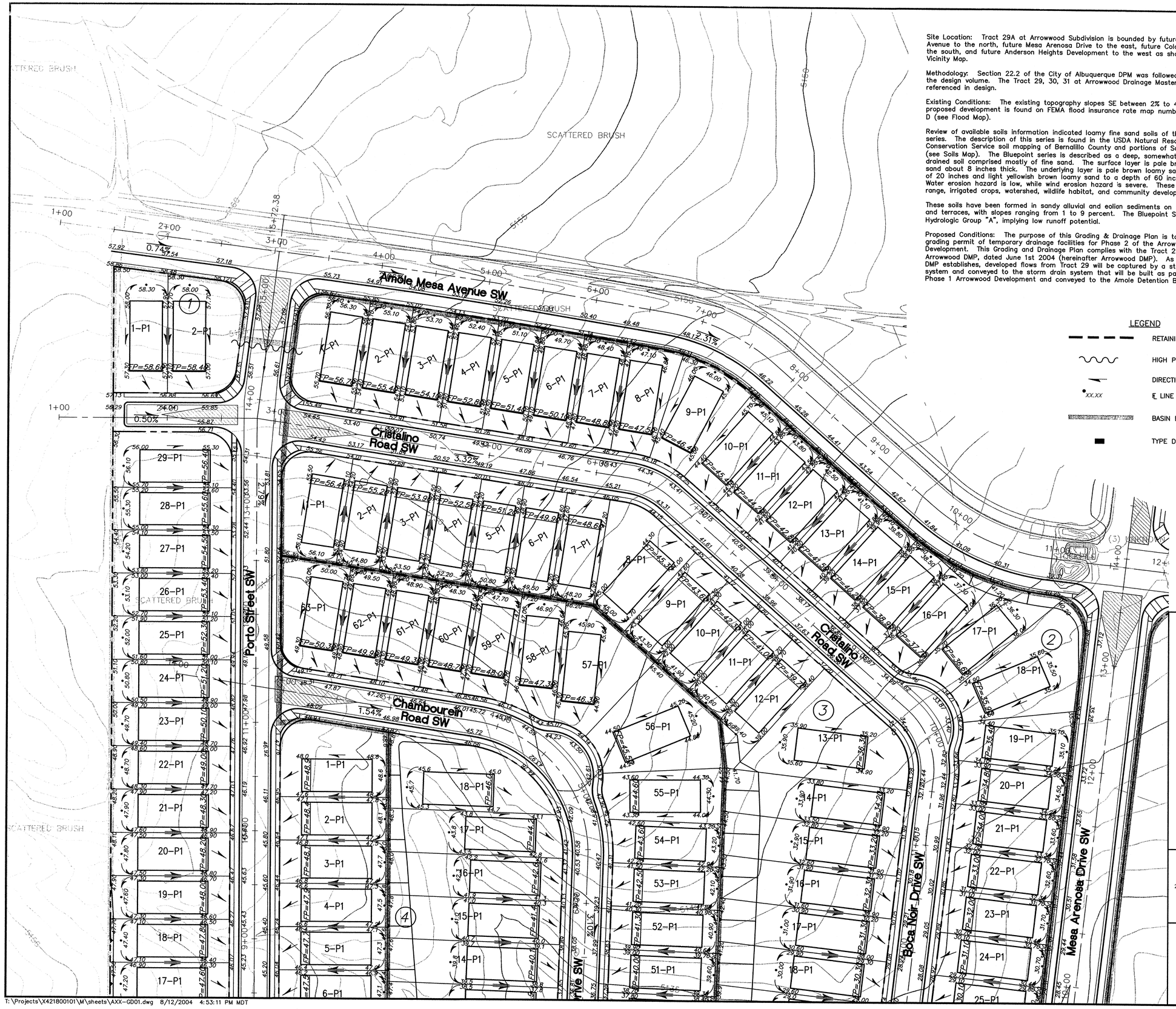
WILSON & COMPANY
2600 THE AMERICAN ROAD SE
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

ARROWWOOD HILLS
UNIT 1

GRADING & DRAINAGE PLAN

REVISIONS	NO.	DATE	REMARKS	BY

DESIGN	DMD	WCEA NO. X421800101	DATE AUG 2004
DRAWN	DMD	PROJECT NO. N/A	SHEET NO. GD02
CHECK	SJS		



Site Location: Tract 29A at Arrowwood Subdivision is bounded by future Amole Mesa Avenue to the north, future Mesa Arenosa Drive to the east, future Colobel Avenue to the south, and future Anderson Heights Development to the west as shown in the Vicinity Map.

Methodology: Section 22.2 of the City of Albuquerque DPM was followed to calculate the design volume. The Tract 29, 30, 31 at Arrowwood Drainage Master Plan was referenced in design.

Existing Conditions: The existing topography slopes SE between 2% to 4%. The proposed development is found on FEMA flood insurance rate map number 35001C0336 D (see Flood Map).

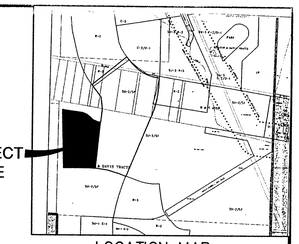
Review of available soils information indicated loamy fine sand soils of the Bluepoint series. The description of this series is found in the USDA Natural Resources Conservation Service soil mapping of Bernalillo County and portions of Sandoval County (see Soils Map). The Bluepoint series is described as a deep, somewhat excessively drained soil comprised mostly of fine sand. The surface layer is pale brown loamy fine sand about 8 inches thick. The underlying layer is pale brown loamy sand to a depth of 20 inches and light yellowish brown loamy sand to a depth of 60 inches or more. Water erosion hazard is low, while wind erosion hazard is severe. These areas support range, irrigated crops, watershed, wildlife habitat, and community development uses.

These soils have been formed in sandy alluvial and eolian sediments on alluvial fans and terraces, with slopes ranging from 1 to 9 percent. The Bluepoint Series fits within Hydrologic Group "A", implying low runoff potential.

Proposed Conditions: The purpose of this Grading & Drainage Plan is to secure grading permit of temporary drainage facilities for Phase 2 of the Arrowwood Development. This Grading and Drainage Plan complies with the Tract 29, 30, 31 at Arrowwood DMP, dated June 1st 2004 (hereinafter Arrowwood DMP). As the Arrowwood DMP establishes, developed flows from Tract 29 will be captured by a storm drain system and conveyed to the storm drain system that will be built as part of this Phase 1 Arrowwood Development and conveyed to the Amole Detention Basin.

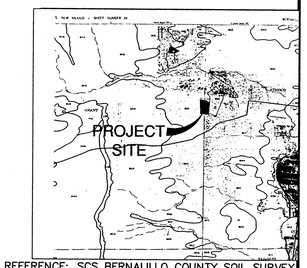
LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX — ℄ LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET

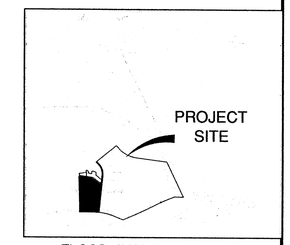


LOCATION MAP

ZONE ATLAS MAP NO. N-9



REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY

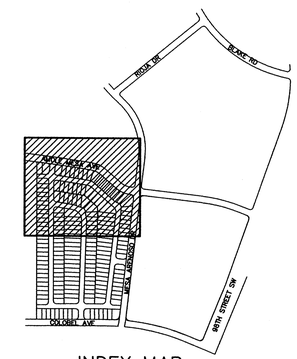


FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY PANEL 336

GRAPHIC SCALE

SCALE: 1 INCH = 40 FT.



INDEX MAP

WILSON & COMPANY
2600 THE AMERICAN ROAD SE
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

ARROWWOOD HILLS UNIT 1

GRADING & DRAINAGE PLAN

REVISIONS	NO.	DATE	REMARKS	BY

DESIGN	DMD	WCEA NO. X421800101	DATE AUG 2004
DRAWN	DMD	PROJECT NO. N/A	SHEET NO. GD01
CHECK	SJS		

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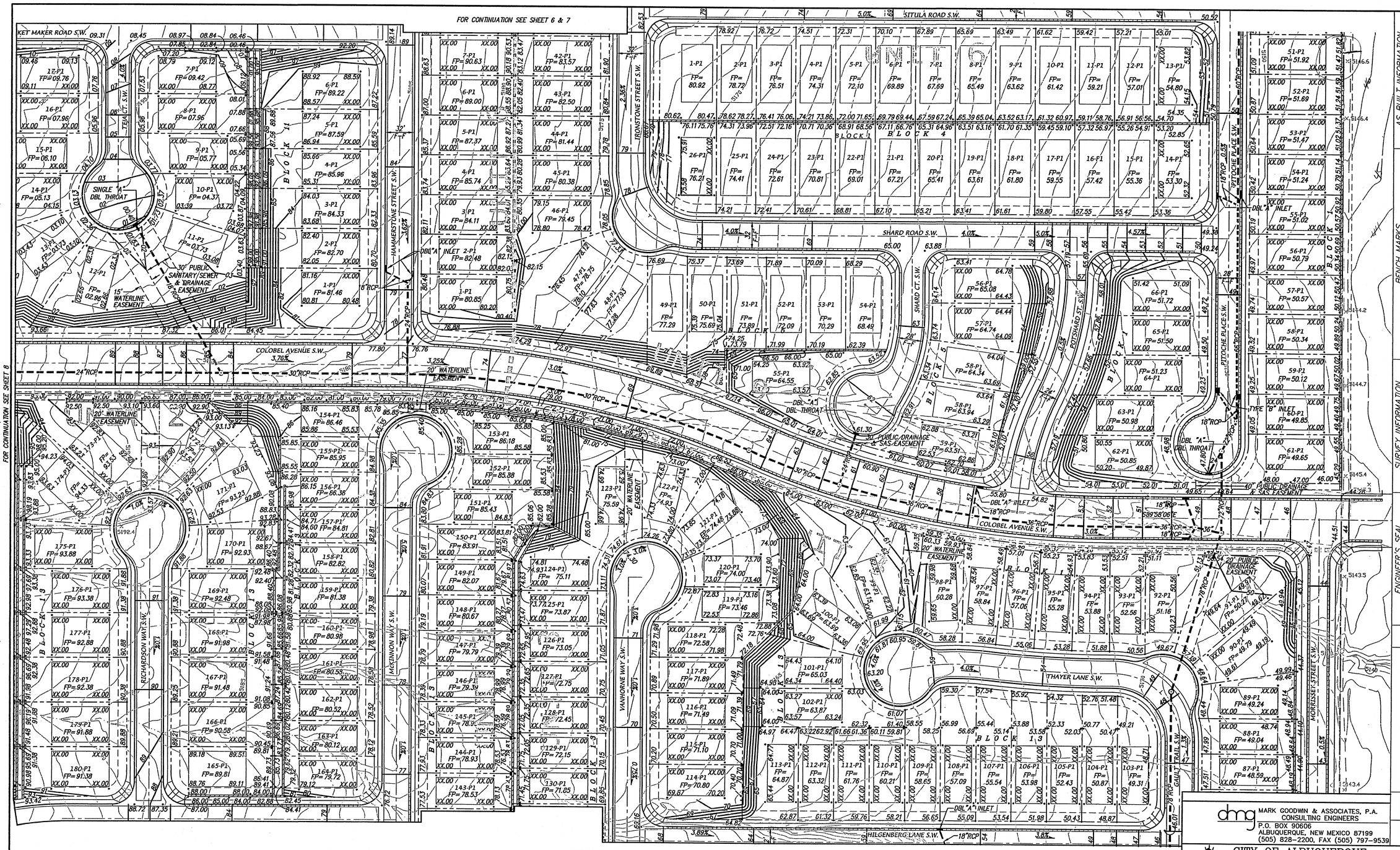


N

50' 25' 0 50' 100'

SCALE: 1" = 50'

A03080AH\grade n drain\3080GD-50-REVA-TEMP\SHEET 5\04-13-05\MJR ACH

AS BUILT INFORMATION

CONTRACTOR		
STAKED BY		DATE
INSPECTOR'S		
CHANGE BY		DATE
FIELD		
VERIFICATION BY		DATE
OFFICE		
CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

STATION "3-P10" IS LOCATED 5.9 MI. SW OF DOWNTOWN ALBUQUERQUE TO REACH STATION FROM INT. OF COORS AND DENNIS CHAVEZ BLVD. (FORMERLY RIO BRAVO), GO S. ON COORS BLVD. 0.62 MI. TO THE STATION WHICH IS ON AN EARTHEN BERM 162.2; WEST OF THE CENTERLINE OF COORS BLVD. THE STATION IS A STANDARD ACS 3 1/4" ALUMINUM CAP RIVETED TO A PIPE 0.25' ABOVE THE GROUND AND IS STAMPED "3-P10, 1998".

X=360733.56, Y=1462437.48 (NAD 27), ELEV=4935.735 (SLD 29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		

		DATE
DESIGNED BY	GJK	02/04
DRAWN BY	MJR	02/04
CHECKED BY	DMG	02/04

dmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

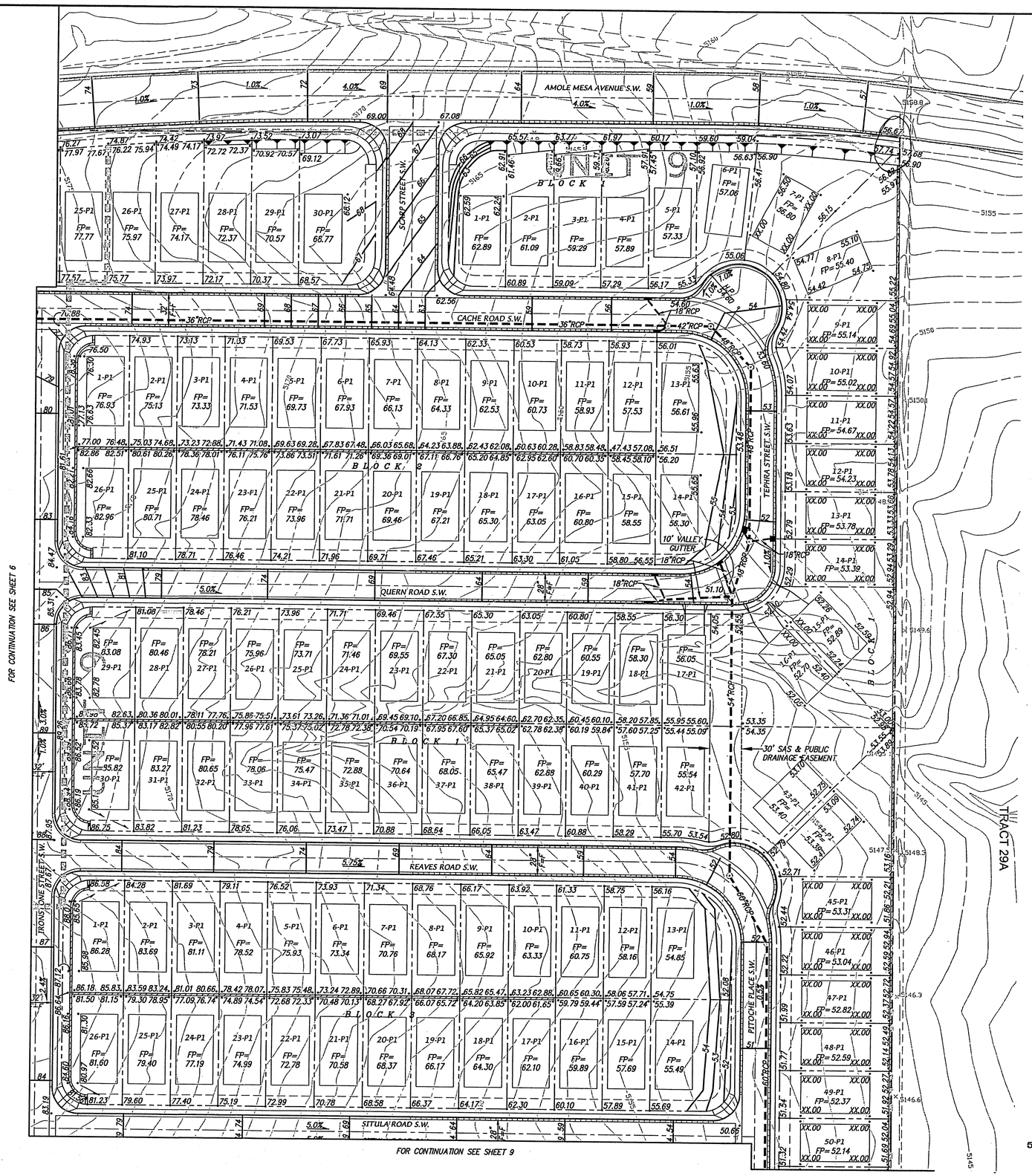
ANDERSON HEIGHTS GRADING AND DRAINAGE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
753981	N-8/P-8	9	83

RECEIVED JUL 06 2005 HYDROLOGY SECTION

HP DesignJet 1050C by HP (temporary)7883.pc3



NOTES

SCALE: 1" = 50'

A03080AH\grade n drain\3080GD-50-REV-TEMP\SHEET 3\04-13-05\MJR ACH

AS BUILT INFORMATION

CONTRACTOR STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "3-P10" IS LOCATED 5.9 MI. SW OF DOWNTOWN ALBUQUERQUE (FORMERLY RIO BRAVO). GO S. ON COORS BLVD.0.62 MI. TO THE STATION WHICH IS ON AN EARTHEN BERM 162.2; WEST OF THE CENTERLINE OF COORS BLVD. THE STATION IS A STANDARD ACS 3 1/4" ALUMINUM CAP RIVETTED TO A PIPE 0.25' ABOVE THE GROUND AND IS STAMPED "3-P10, 1998".
X=360733.56, Y=1492437.48 (NAD 27). ELEV=4935.735 (SLD 29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DEANNA L. ABREU
NEW MEXICO
11929
PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	GJK	02/04
DRAWN BY	MJR	02/04
CHECKED BY	DMG	02/04

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

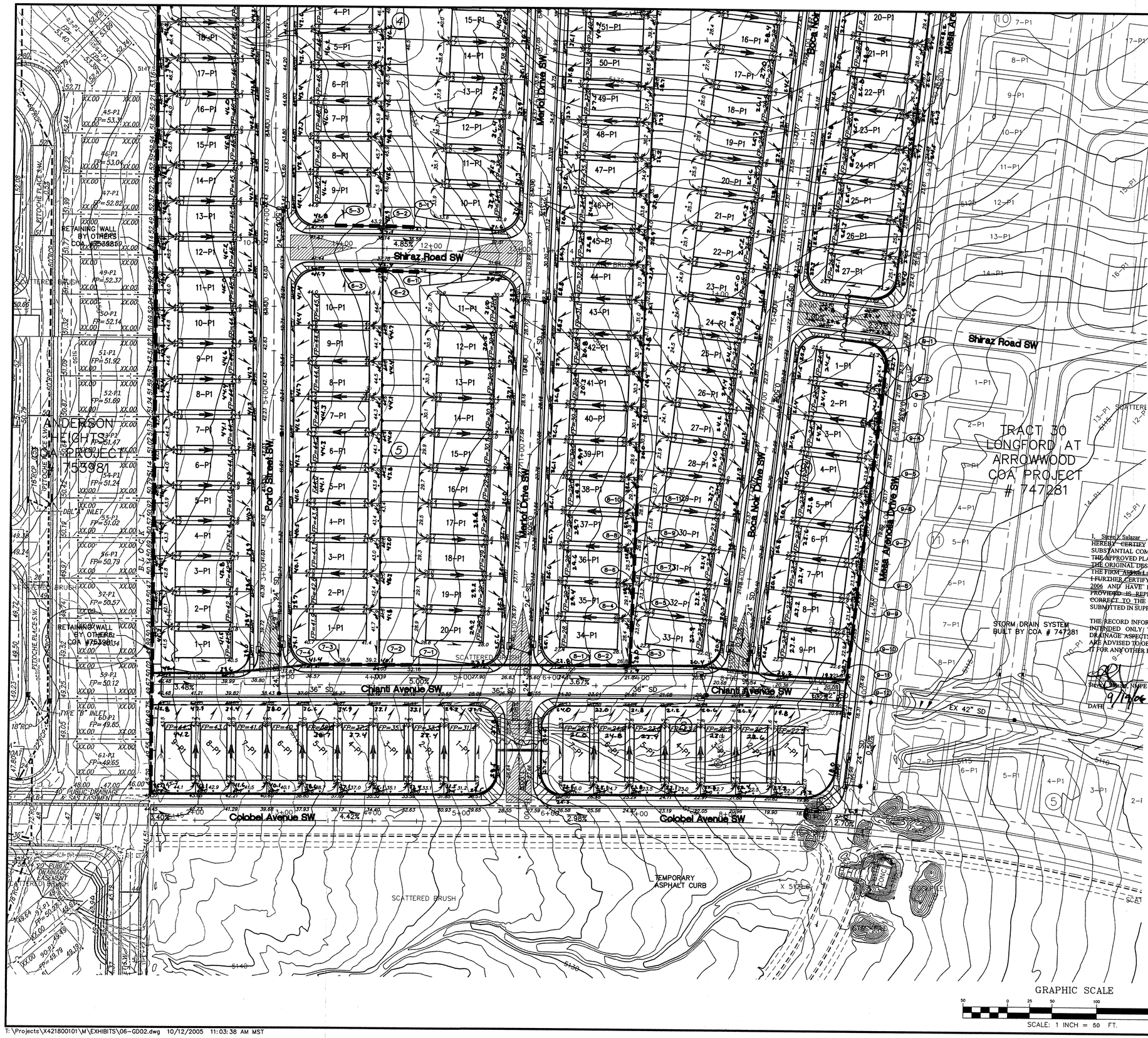
TITLE:

ANDERSON HEIGHTS GRADING AND DRAINAGE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
753981	N-8/P-8	7	83

RECEIVED JUL 06 2005 HYDROLOGY SECTION



RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
5-1	38.00	36.67		
			1.33-5.33	35.0
5-2	43.33	38.00		
			5.33-2.67	55.0
5-3	43.33	40.67		
6-1	37.33	35.33		
			2.00-5.33	39.0
6-2	42.67	37.33		
			5.33-2.67	45.0
6-3	42.67	40.00		
7-1	32.67	31.33		
			1.33-5.33	37.0
7-2	39.33	32.67/33.33		
			6.00-4.67	35.0
7-3	39.33/38.67	34.67		
			4.00-2.67	35.0
7-4	38.67	36.00		

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
8-1	26.00	24.00		
			2.00-4.67	60.0
8-2	26.67	22.00		
			4.67-6.00	15.0
8-3	28.00	22.00		
			6.00	35.0
8-4	28.00/28.67	22.00/22.67		
			6.00	10.0
8-5	28.67/29.33	22.67/22.33		
			6.00	30.0
8-6	29.33	23.33/24.67		
			4.67	10.0
8-7	29.33	24.67/25.33		
			4.00	30.0
8-8	29.33	25.33/26.00		
			3.33	10.0
8-9	29.33	26.00/26.67		
			2.67	30.0
8-10	29.33	26.67/27.33		
			2.00	10.0
8-11	29.33	27.33		

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
9-1	24.00	22.67		
			1.33-2.67	39.0
9-2	24.67	21.33		
			3.33	25.0
9-3	24.67	21.33/20.67		
			4.00	40.0
9-4	24.67	20.67		
			4.00	40.0
9-5	24.67/24.00	20.67/20.00		
			4.00	20.0
9-6	24.00	20.00		
			4.00	
9-7	24.00	20.00/19.33		
			4.67	40.0
9-8	24.00/23.33	19.33		
			4.00	40.0
9-9	23.33	19.33/18.67		
			4.67	40.0
9-10	23.33	18.67		
			4.67	20.0
9-11	23.33	18.67		
			4.00-2.00	20.0
9-12	21.33	18.67		

LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX — ℄ LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET
- (X-X) RETAINING WALL POINT

DRAINAGE CERTIFICATION

I, Steve J. Salazar, NMPE 16241, OF THE FIRM Wilson & Company, Inc. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 11-21-05. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Tim Aldrich, NMPS 7719, OF THE FIRM Aldrich Land Surveying.

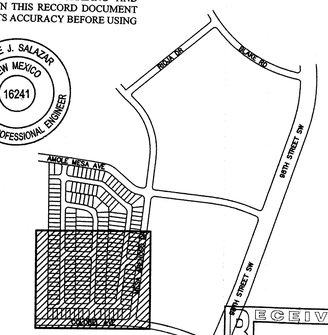
I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON July 11, 2006 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE 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.

SIGNATURE, NMPE 16241

DATE 9/12/06

STEVE J. SALAZAR NEW MEXICO 16241 LICENSED PROFESSIONAL ENGINEER



SHEET INDEX MAP

RECEIVED SEP 20 2006 HYDROLOGY SECTION

WILSON & COMPANY
2600 THE AMERICAN ROAD SE
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

STEVE J. SALAZAR NEW MEXICO 16241 LICENSED PROFESSIONAL ENGINEER 10/12/06

ARROWWOOD HILLS

GRADING & DRAINAGE PLAN

REVISIONS NO.	DATE	REMARKS	BY

DESIGN	DMD	WCEA NO. X421800101	DATE OCT 2005
DRAWN	DMD	PROJECT NO. N/A	SHEET NO. 2 OF 2
CHECK	SJS		

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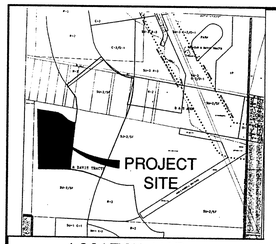
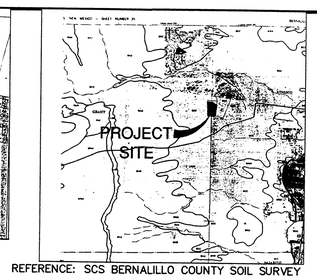
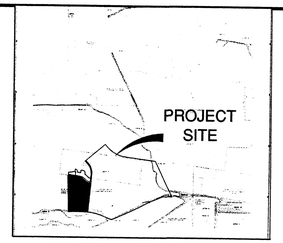


LOCATION MAP

ZONE ATLAS MAP NO. N-9



REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY



FLOOD INSURANCE MAP

REFERENCE: FLOOD INSURANCE STUDY PANEL 336

DRAINAGE CERTIFICATION

I, Steve J. Salazar, NMPE 16241 OF THE FIRM Wilson & Company, Inc., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 11-21-05. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Tim Aldrich, NMPS 7719, OF THE FIRM Aldrich Land Surveying.

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Steve J. Salazar, NMPE 16241

DATE 9/18/06

STEVE J. SALAZAR NEW MEXICO 16241 LICENSED PROFESSIONAL ENGINEER

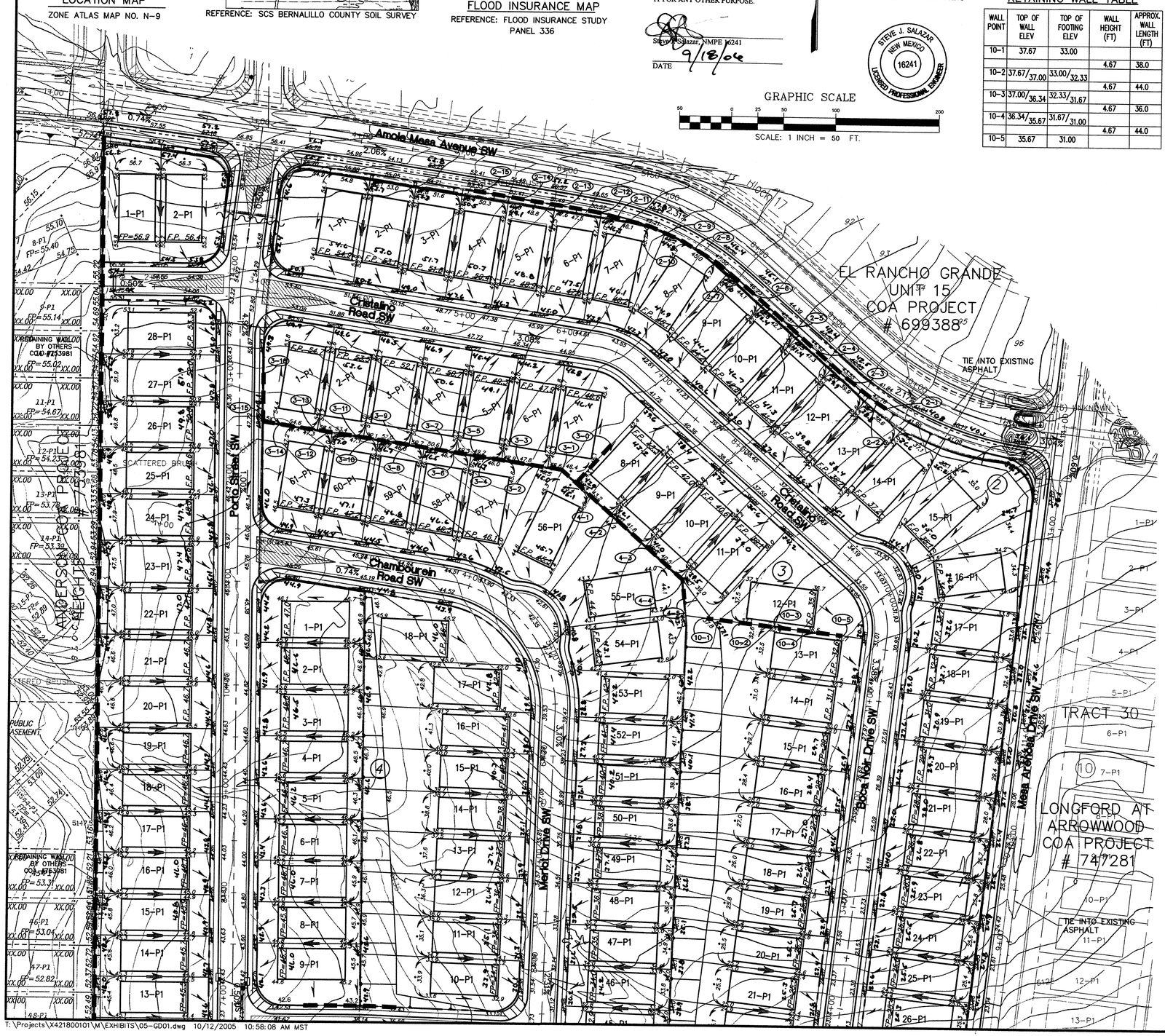
GRAPHIC SCALE

50 0 25 50 100 200

SCALE: 1 INCH = 50 FT.

LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX — ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET
- (X-X) RETAINING WALL POINT



T:\Projects\X421800101\M\EXHIBITS\05-GD01.dwg 10/12/2005 10:58:08 AM MST

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
10-1	37.67	33.00		
			4.67	38.0
10-2	37.67/37.00	33.00/32.33		
			4.67	44.0
10-3	37.00/36.34	32.33/31.67		
			4.67	36.0
10-4	36.34/35.67	31.67/31.00		
			4.67	44.0
10-5	35.67	31.00		

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
2-1	42.67	40.0		
			2.67	10.0
2-2	42.67/43.33	40.0		
			3.33	40.0
2-3	43.33/44.00	40.00/41.33		
			2.67	40.0
2-4	44.00/44.67	41.33/42.67		
			2.00-2.67	40.0
2-5	45.33/46.00	42.67/44.00		
			2.00	40.0
2-6	46.00/46.67	44.00		
			2.67-3.33	43.0
2-7	47.33/48.00	44.00/44.67		
			3.33	25.0
2-8	48.00/48.67	44.67		
			4.00	30.0
2-9	48.67/49.33	44.67		
			4.67	20.0
2-10	49.33/50.00	44.67/45.33		
			4.67	34.0
2-11	50.00/50.67	45.33		
			5.33-4.00	20.0
2-12	50.67/51.33	46.67/48.00		
			3.33	40.0
2-13	51.33/52.00	48.00/49.33		
			2.67	40.0
2-14	52.00/52.67	49.33/50.67		
			2.00-2.67	40.0
2-15	53.33	50.67		

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
3-0	47.00	45.67		
			1.33-3.33	30.0
3-1	47.67	44.33		
			3.33	25.0
3-2	47.67	44.33/45.00		
			2.67	15.0
3-3	47.67/49.00	45.00		
			4.00	26.0
3-4	49.00	45.00/45.67		
			3.33	14.0
3-5	49.00/49.67	45.67		
			4.00	26.0
3-6	49.67/50.33	45.67/46.33		
			4.00	14.0
3-7	50.33/51.00	46.33		
			4.67	26.0
3-8	51.00	46.33		
			4.67	14.0
3-9	51.00/52.33	46.33		
			6.00	26.0
3-10	52.33	46.33/47.00		
			5.33	14.0
3-11	52.33/53.67	47.00		
			6.67	26.0
3-12	53.67	47.00		
			6.67	14.0
3-13	53.67/54.33	47.00		
			7.33	35.0
3-14	54.33	47.00		
			7.33-5.33	16.0
3-15	52.33	47.00/47.67		
			4.67-2.67	45.0
3-16	52.33	49.67		

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL-HEIGHT (FT)	APPROX. WALL LENGTH (FT)
4-1	45.33	42.00		
			3.33	40.0
4-2	45.33/44.67	42.00/40.67		
			4.00	40.0
4-3	44.67	40.67/39.33		
			5.33	40.0
4-4	44.67	39.33/38.67		
			6.00-1.33	20.0
4-5	44.67	43.33		

SITE LOCATION: Tract 29A at Arrowwood Subdivision is bounded by future Amole Mesa Avenue to the north, future Mesa Arenosa Drive to the east, future Colobel Avenue to the south, and future Anderson Heights Development to the west as shown in the Vicinity Map.

METHODOLOGY: Section 22.2 of the City of Albuquerque DPM was followed to calculate the design volume. The Tract 29, 30, 31 at Arrowwood Drainage Master Plan dated Oct. 11, 2004 was referenced in design.

EXSITING CONDITIONS: The existing topography slopes SE between 2% to 4%. The proposed development is found on FEMA flood insurance rate map number 35001C0336 D (see Flood Map). A small area on the southern portion of tract 29 is located within the flood plain. A CLOMR is underway to modify this flood plain.

Review of available soils information indicated loamy fine sand soils of the Bluepoint series. The description of this series is found in the USDA Natural Resources Conservation Service soil mapping of Bernalillo County and portions of Sandoval County (see Soils Map). The Bluepoint series is described as a deep, somewhat excessively drained soil comprised mostly of fine sand. The surface layer is pale brown loamy fine sand about 8 inches thick. The underlying layer is pale brown loamy sand to a depth of 20 inches and light yellowish brown loamy sand to a depth of 60 inches or more. Water erosion hazard is low, while wind erosion hazard is severe. These areas support range, irrigated crops, watershed, wildlife habitat, and community development uses.

These soils have been formed in sandy alluvial and eolian sediments on alluvial fans and terraces, with slopes ranging from 1 to 9 percent. The Bluepoint Series fits within Hydrologic Group "A", implying low runoff potential.

PROPOSED CONDITIONS: The purpose of this Grading & Drainage Plan is to secure grading permit of temporary drainage facilities for Arrowwood Hills Development, otherwise known as Tract 29 at Arrowwood. This Grading and Drainage Plan complies with the Tract 29, 30, 31 at Arrowwood DMP, dated June 1st 2004 (hereinafter Arrowwood DMP). As the Arrowwood DMP establishes in the interim conditions, developed flows from Tract 29 will be captured by a storm drain system and conveyed to the temporary retention pond located on Tract 30 as shown on this plan. As the Arrowwood DMP establishes in the completely developed conditions, flows from Arrowwood Hills will be conveyed through the storm drain system that will be built as part of Tract 30 of the Arrowwood Development and conveyed to the Amole Detention Basin.

Offsite flows from Basin 1 and 10 (as defined in the Arrowwood DMP) to the west of Tract 29 will not need to be routed through the proposed development due to the development of Anderson Heights, which is comprised of the easternmost portion of Basin's 1 and 10. Developed flows from Anderson Heights will be routed through the South Power Line Diversion into the Rio Bravo Channel as defined in the approved Anderson Heights Drainage Report, dated April, 2004.

The storm drain system was designed based on the completely developed conditions, complying with the Arrowwood DMP. Bypass flows, as determined by the approved Anderson Heights Drainage Report, dated April, 2004, entering Arrowwood Hills on Amole Mesa Avenue will be conveyed as street flow east to Mesa Arenosa, then south to Colobel Avenue where it is collected and conveyed by the proposed storm drain system. Bypass flow from the west on Colobel Avenue will be conveyed to Mesa Arenosa where it will be captured and enter the proposed storm drain system.

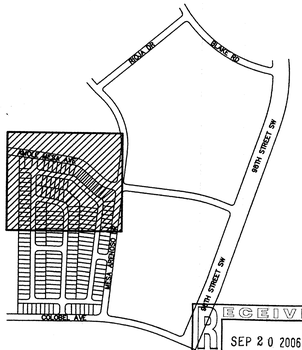
STREET CAPACITY/INLET DESIGN:

Section 22.2 of the COA DPM was followed to determine the street and inlet capacities.

On Amole Mesa at the northeast corner of the site, the flow is 30.89 cfs, including bypass flow from Anderson Heights of 5.29 cfs(as determined in the Arrowwood DMP), half street flow of 1.6 cfs and 24.0 cfs from El Rancho Grande Unit 15. The depth of flow at this point is 6.9 inches on a 2.31% slope.

On Mesa Arenosa at the southeast corner of the site, the flow is equal to the flow from Amole Mesa added to the street runoff from half of the street, which is 3.4 cfs. The overall flow on at this point is 34.29 cfs for a depth of 8.2 inches on a 0.89% slope. Two single grate type A inlets will be placed at this corner to capture 29.49 cfs, allowing 4.8 cfs to bypass.

On Colobel at the southeast corner of the site, the street carries 5.67 cfs of bypass flow from Anderson Heights(as determined in the Arrowwood DMP DATED OCT. 11, 2004) and 1.1 cfs for half of the street. The total flow at this point is 6.77 cfs for a depth of 4.4 inches on a 2.70% slope. One single grate type A inlet will be placed at this point to capture 5.6 cfs and allow 1.2 cfs to bypass.



SHEET INDEX MAP

RECEIVED SEP 20 2006 HYDROLOGY SECTION

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STEVE J. SALAZAR NEW MEXICO 16241 LICENSED PROFESSIONAL ENGINEER 10/12/06

ARROWWOOD HILLS

GRADING & DRAINAGE PLAN

REVISIONS NO.	DATE	REMARKS	BY

DESIGN	DMD	WCEA NO. X421800101	DATE OCT 2005
DRAWN	DMD	PROJECT NO. N/A	SHEET NO. 1 OF 2
CHECK	SJS		