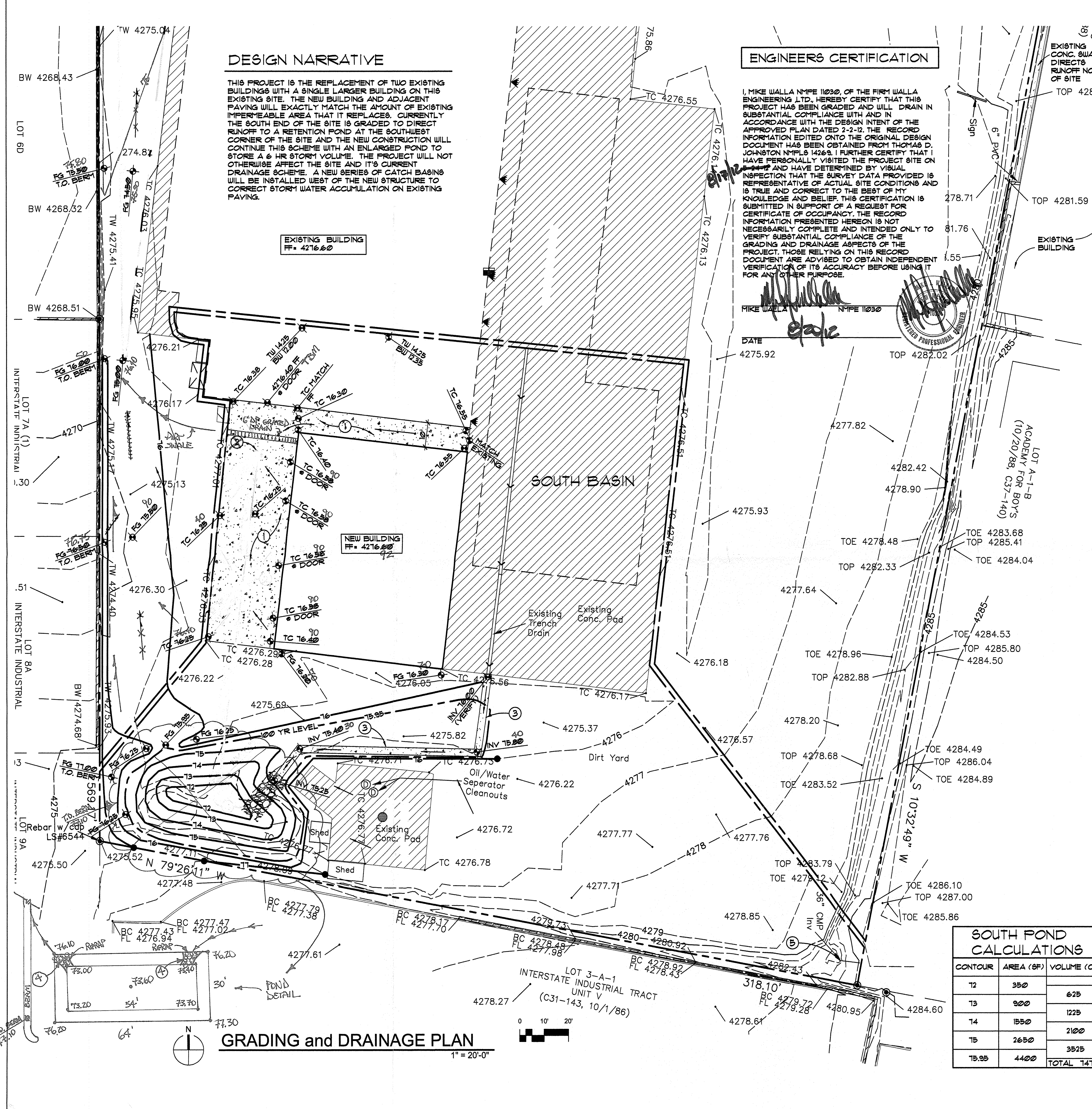




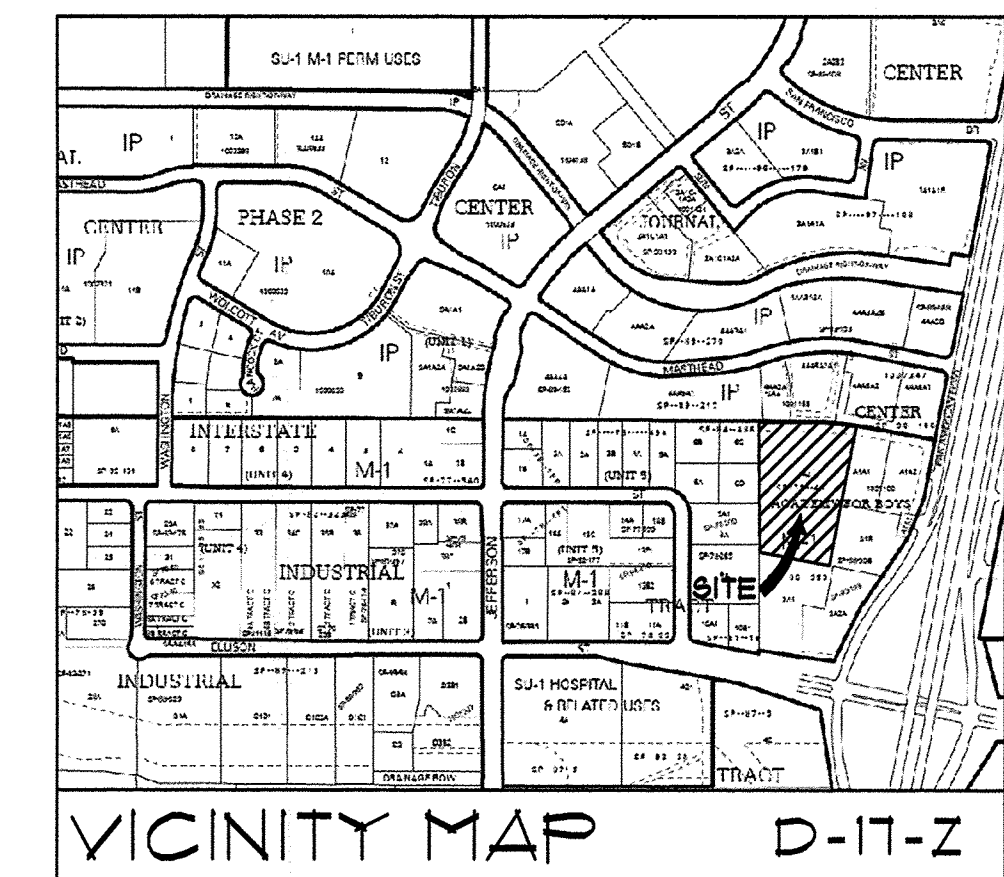
DESIGN NARRATIVE

THIS PROJECT IS THE REPLACEMENT OF TWO EXISTING BUILDINGS WITH A SINGLE LARGER BUILDING ON THIS EXISTING SITE. THE NEW BUILDING AND ADJACENT PAVING WILL EXACTLY MATCH THE AMOUNT OF EXISTING IMPERMEABLE AREA THAT IT REPLACES. CURRENTLY THE SOUTH END OF THE SITE IS GRADED TO DIRECT RUNOFF TO A RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE AND THE NEW CONSTRUCTION WILL CONTINUE THIS SCHEME WITH AN ENLARGED POND TO STORE A 6 HR STORM VOLUME. THE PROJECT WILL NOT OTHERWISE AFFECT THE SITE AND ITS CURRENT DRAINAGE SCHEME. A NEW SERIES OF CATCH BASINS WILL BE INSTALLED WEST OF THE NEW STRUCTURE TO CORRECT STORM WATER ACCUMULATION ON EXISTING PAVING.

ENGINEER'S CERTIFICATION

I, MIKE WALLA NMPE 11030, OF THE FIRM WALLA ENGINEERING LTD., 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 2-2-12. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED FROM THOMAS D. JOHANSTON NMPLS 14268. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 02/12/12 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 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 THE PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

MIKE WALLA NMPE 11030
DATE 02/12/12



BENCHMARK-NAVD 88
ACS MONUMENT "B E18" HAVING AN ELEVATION OF 5269.166'

LEGAL DESCRIPTION

PARCEL LETTERED "A-2" OF SUMMARY PLAT SHOWING PARCELS "A-1" AND "A-2" (COMPRISING REPLATED PARCEL "A") OF A PORTION OF LANDS OF ACADEMY FOR BOYS WITHIN THE ELENA GALLEGOS GRANT, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 21, 1915, IN PLAT BOOK C10, PAGE 89.

KEYED NOTES

- 1 NEW CONCRETE PAVING PER DETAIL 1/C-201
- 2 ~~24" SQUARE CATCH BASIN PER DETAIL 2/C-201~~ ELIMINATED
- 3 ~~3'-0" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3/C-201~~
- 4 6" TO 8" ROCK SLOPE PROTECTION OVER FILTER FABRIC
- 5 EXISTING ABANDONED 24" CHMP

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 4276 --- EXISTING CONTOUR
- 15 --- NEW CONTOUR
- 4271.71 EXISTING SPOT ELEVATION
- 1630.0 NEW SPOT ELEVATION
- === BASIN LIMIT
- NEW SWALE
- NEW FLOW DIRECTION ARROW
- FF FINISHED FLOOR
- FG FINISHED GRADE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- TG TOP OF GRATE
- INV TOP OF ASPHALT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- BC BACK OF CURB
- FL FLOW LINE
- EXISTING CONCRETE PAVED PAD TO REMAIN

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 2 DESIGN STORM: (IN)									
				1hr	6hr	24hr	4day	10day	
				2.01	2.35	3.15	3.30	3.95	
EXISTING CONDITIONS - SOUTH BASIN									
LAND AREA	AREA	P6	Q	V6	V24	V4DAY	V10DAY		
TRTINT	(ACRE)	%	(CF8/AC)	(CF8)	(CF)	(CF)	(CF)	(CF)	(CF)
A	0.000	0%	0.53	1.56	0.00	0	0	0	0
B	0.000	0%	0.18	2.28	0.00	0	0	0	0
C	0.518	45%	1.13	3.14	1.81	2.371	2.371	2.371	2.371
D	0.610	51%	2.12	5.10	2.81	4.634	5.580	6.738	8.237
TOTALS	1.188	100%		4.68	7.065	7.351	9.169	10.608	
PROPOSED CONDITIONS - SOUTH BASIN									
LAND AREA	AREA	P6	Q	V6	V24	V4DAY	V10DAY		
TRTINT	(ACRE)	%	(CF8/AC)	(CF8)	(CF)	(CF)	(CF)	(CF)	(CF)
A	0.000	0%	0.53	1.56	0.00	0	0	0	0
B	0.000	0%	0.18	2.28	0.00	0	0	0	0
C	0.518	45%	1.13	3.14	1.81	2.371	2.371	2.371	2.371
D	0.610	51%	2.12	4.10	2.81	4.634	5.580	6.738	8.237
TOTALS	1.188	100%		4.68	7.065	7.351	9.169	10.608	

SOUTH FOND CALCULATIONS		
CONTOUR	AREA (SF)	VOLUME (CF)
T2	350	625
T3	900	
T4	1550	1225
T5	2650	
T5.95	4400	3525
TOTAL	14175	

GRADING and DRAINAGE PLAN

1" = 20'-0"

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Civil Engineering

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Albuquerque • New Mexico • 87110
881-3008 • Facsimile 881-4025

CONSULTANT

ARCHITECT

ENGINEER

MCT INDUSTRIES

ALBUQUERQUE,
NEW MEXICO

MARK	DATE	REVISION

PROJECT NO: M47-0111
CAD DWG FILE: C101.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE

GRADING and DRAINAGE PLAN

C-101

DESIGN NARRATIVE

THIS PROJECT IS THE REPLACEMENT OF TWO EXISTING BUILDINGS WITH A SINGLE LARGER BUILDING ON THIS EXISTING SITE. THE NEW BUILDING AND ADJACENT PAVING WILL EXACTLY MATCH THE AMOUNT OF EXISTING IMPERMEABLE AREA THAT IT REPLACES. CURRENTLY THE SOUTH END OF THE SITE IS GRADED TO DIRECT RUNOFF TO A RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE AND THE NEW CONSTRUCTION WILL CONTINUE THIS SCHEME WITH AN ENLARGED POND TO STORE A 6 HR STORM VOLUME. THE PROJECT WILL NOT OTHERWISE AFFECT THE SITE AND ITS CURRENT DRAINAGE SCHEME. A NEW SERIES OF CATCH BASINS WILL BE INSTALLED WEST OF THE NEW STRUCTURE TO CORRECT STORM WATER ACCUMULATION ON EXISTING PAVING.

EXISTING BUILDING
FF = 4276.60

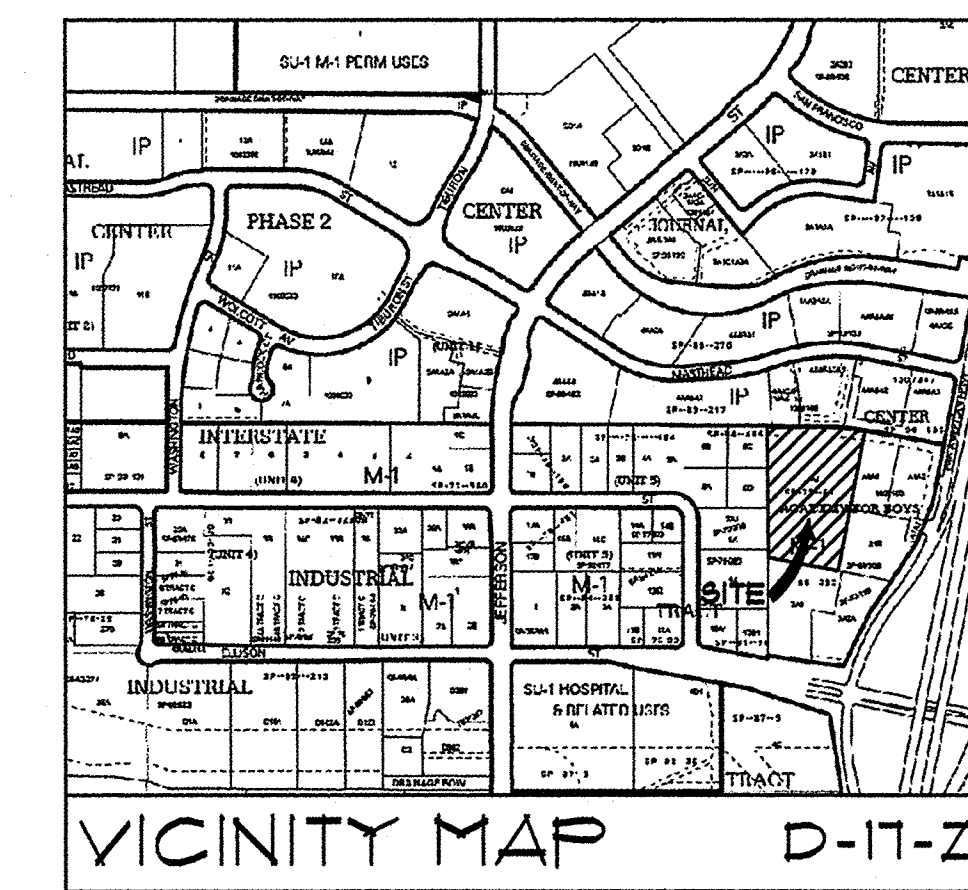
NEW BUILDING
FF = 4276.60

SOUTH BASIN

Storm Drain
Cleanouts

GRADING and DRAINAGE PLAN

1" = 20'-0"



BENCHMARK-NAVD 88

ACS MONUMENT "16 E10" HAVING AN ELEVATION OF 5269.166'

LEGAL DESCRIPTION

PARCEL LETTERED "A-2" OF SUMMARY PLAT SHOWING PARCELS "A-1" AND "A-2" (COMPRISING REPLATTED PARCEL "A") OF A PORTION OF LANDS OF ACADEMY FOR BOYS WITHIN THE ELENA GALLEGOS GRANT, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 21, 1915, IN PLAT BOOK C10, PAGE 89.

KEYED NOTES

- 1 NEW CONCRETE PAVING PER DETAIL 1/C-201
- 2 24" SQUARE CATCH BASIN PER DETAIL 2/C-201
- 3 3'-0" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3/C-201

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 4276 --- EXISTING CONTOUR
- TB --- NEW CONTOUR
- 4271.71 --- EXISTING SPOT ELEVATION
- 16.30 --- NEW SPOT ELEVATION
- == BASIN LIMIT
- NEW FLOW DIRECTION ARROW
- FF FINISHED FLOOR
- FG FINISHED GRADE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- TG TOP OF GRATE
- INV TOP OF ASPHALT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- BC BACK OF CURB
- FL FLOW LINE

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 2
DESIGN STORM: (IN)

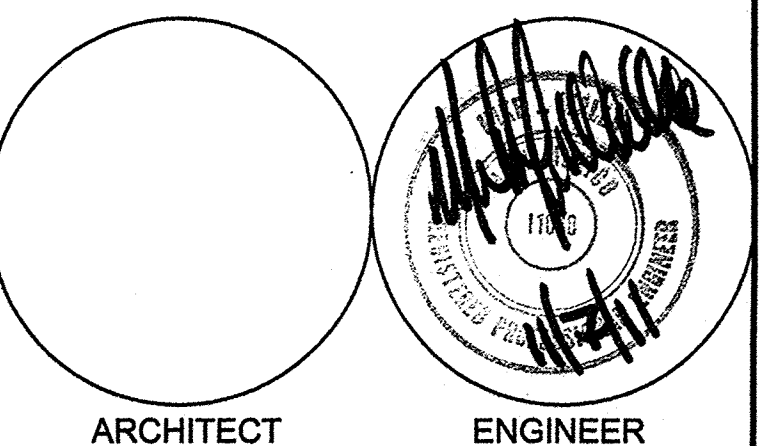
			1hr	6hr	24hr	4day	10day
			2.01	2.35	3.15	3.30	3.95
EXISTING CONDITIONS - SOUTH BASIN							
LAND TRIBUTARY	AREA (ACRE)	%	Q (CFS/AC)	Q (CF)	V6 (CF)	V24 (CF)	V4DAY (CF)
A	0.000	0%	0.53	1.56	0.00	0	0
B	0.000	0%	0.18	2.28	0.00	0	0
C	0.518	49%	1.13	3.14	1.81	2.371	2.371
D	0.610	51%	2.12	5.10	2.87	4.694	5.580
TOTALS	1.188	100%		4.68	7.065	7.951	9.169

PROPOSED CONDITIONS - SOUTH BASIN							
LAND TRIBUTARY	AREA (ACRE)	%	Q (CFS/AC)	Q (CF)	V6 (CF)	V24 (CF)	V4DAY (CF)
A	0.000	0%	0.53	1.56	0.00	0	0
B	0.000	0%	0.18	2.28	0.00	0	0
C	0.518	49%	1.13	3.14	1.81	2.371	2.371
D	0.610	51%	2.12	4.70	2.87	4.694	5.580
TOTALS	1.188	100%		4.68	7.065	7.951	9.169

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NEW MEXICO

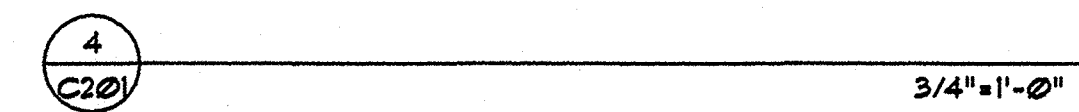
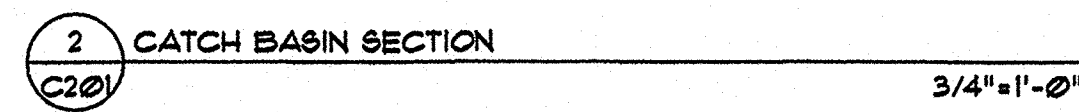
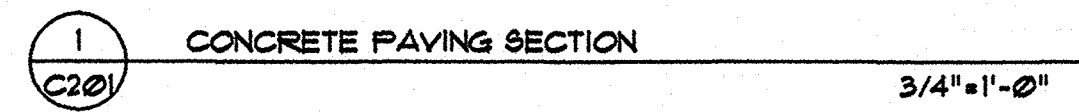
MARK DATE REVISION

PROJECT NO: M47-0111
CAD DWG FILE: C101.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE

GRADING and
DRAINAGE PLAN

C-101



ALBUQUERQUE,
NEW MEXICO

MARK	DATE	REVISION

SHEET TITLE

GRADING and
DRAINAGE DETAILS

C-201

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HYDROLOGY
SECTION

GENERAL NOTES:

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specification for Public Works Construction 1985.
3. Two working days prior to any excavation, contractor must contact line locating Services at (505) 260-1990 for locating existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. 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 property served.

DRAINAGE CALCULATIONS

- I. REFERENCES:
- A. SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO, IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
- B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 9 OF 50.
- C. ZONE ATLAS PAGE C-17-Z.
- II. GENERAL INFORMATION:
- A. SITE LIES IN ZONE TWO(2) (SEE REF. A, PAGE A-1)
- B. 100 YEAR, 6 HOUR RAINFALL CRITERIA
- C. TIME OF CONCENTRATION, T_c ; $T_c = 0.2$ hr (12 MINUTES).
- III. IMPERVIOUSNESS:
- | TREATMENT TYPE | TYPES OF SURFACES | EXISTING SQ.FT | ACRES | PROPOSED SQ.FT | ACRES |
|-----------------|-------------------|----------------|--------|----------------|--------|
| A | UNDEVELOPED | 0 | 0.0000 | 0 | 0.0000 |
| B | LANDSCAPING | 34,281 | 0.7870 | 22,281 | 0.5115 |
| C | COMPACTED/VACANT | 0 | 0.0000 | 0 | 0.0000 |
| D | IMPERVIOUS | 194,262 | 4.4596 | 206,262 | 4.7351 |
| TOTAL AREA (TA) | | 228,543 | 5.2466 | 228,543 | 5.2466 |
- IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):
- | TREATMENT TYPE | TYPES OF SURFACES | EXISTING CFS/Ac | Qp(100) | PROPOSED CFS/Ac | Qp(100) |
|--------------------------|-------------------|-----------------|---------|-----------------|---------|
| A | UNDEVELOPED | 1.59 | 0.00 | 1.59 | 0.00 |
| B | LANDSCAPING | 2.25 | 1.79 | 2.25 | 1.17 |
| C | COMPACTED/VACANT | 3.14 | 0.00 | 3.14 | 0.00 |
| D | IMPERVIOUS | 4.70 | 20.96 | 4.70 | 22.26 |
| PEAK DISCHARGE FROM SITE | | 22.75 CFS | | 23.42 CFS | |
- V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):
- | TREATMENT TYPE | TYPES OF SURFACES | EXISTING CFS/Ac | Qp(10) | PROPOSED CFS/Ac | Qp(10) |
|--------------------------|-------------------|-----------------|--------|-----------------|--------|
| A | UNDEVELOPED | 0.38 | 0.00 | 0.38 | 0.00 |
| B | LANDSCAPING | 0.95 | 0.75 | 0.95 | 0.49 |
| C | COMPACTED/VACANT | 1.71 | 0.00 | 1.71 | 0.00 |
| D | IMPERVIOUS | 3.14 | 14.00 | 3.14 | 14.87 |
| PEAK DISCHARGE FROM SITE | | 14.75 CFS | | 15.35 CFS | |
- VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):
- | TREATMENT TYPE | TYPES OF SURFACES | EXISTING E | E _W /TA | PROPOSED E | E _W /TA |
|---------------------|-------------------|------------|--------------------|------------|--------------------|
| A | UNDEVELOPED | 0.53 | 0.00 | 0.53 | 0.00 |
| B | LANDSCAPING | 0.78 | 0.12 | 0.78 | 0.08 |
| C | COMPACTED/VACANT | 1.13 | 0.00 | 1.13 | 0.00 |
| D | IMPERVIOUS | 2.12 | 1.80 | 2.12 | 1.91 |
| WEIGHTED "E" FACTOR | | 1.92 IN | | 1.99 IN | |
- VII. VOLUME 100 YEAR, V(360) (REF. A, TABLE A-8):
- | EXISTING | PROPOSED |
|------------------|--------------|
| 1.92 x 1.2466/12 | 0.84 AC. FT. |
| 36,548 CU.FT | |
| 1.99 x 1.2466/12 | 0.87 AC. FT. |
| 37,888 CU.FT | |

EROSION CONTROL MEASURES.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF TO LEAVE THE SITE AND ENTERING ADJACENT PROPERTY.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

SYMBOL LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- ASBUILT SPOT ELEVATION
- PROPERTY LINE
- EASEMENT LINE
- FLOW DIRECTION
- EXISTING SPOT ELEVATION

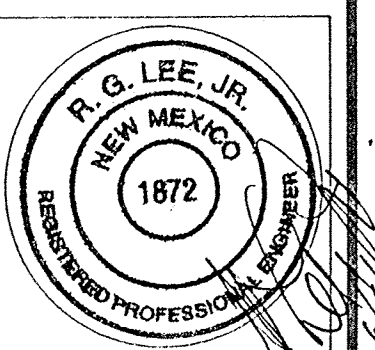
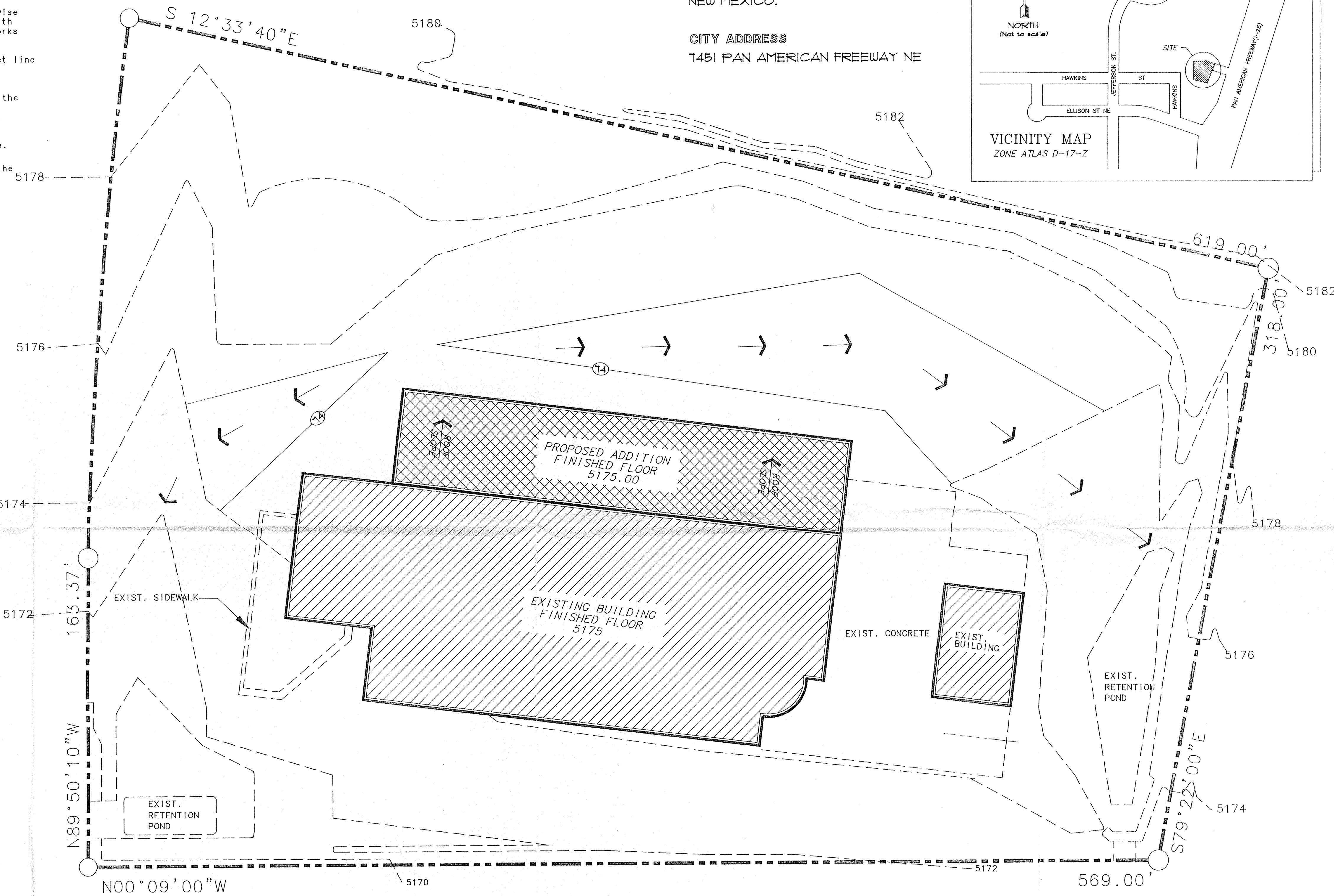
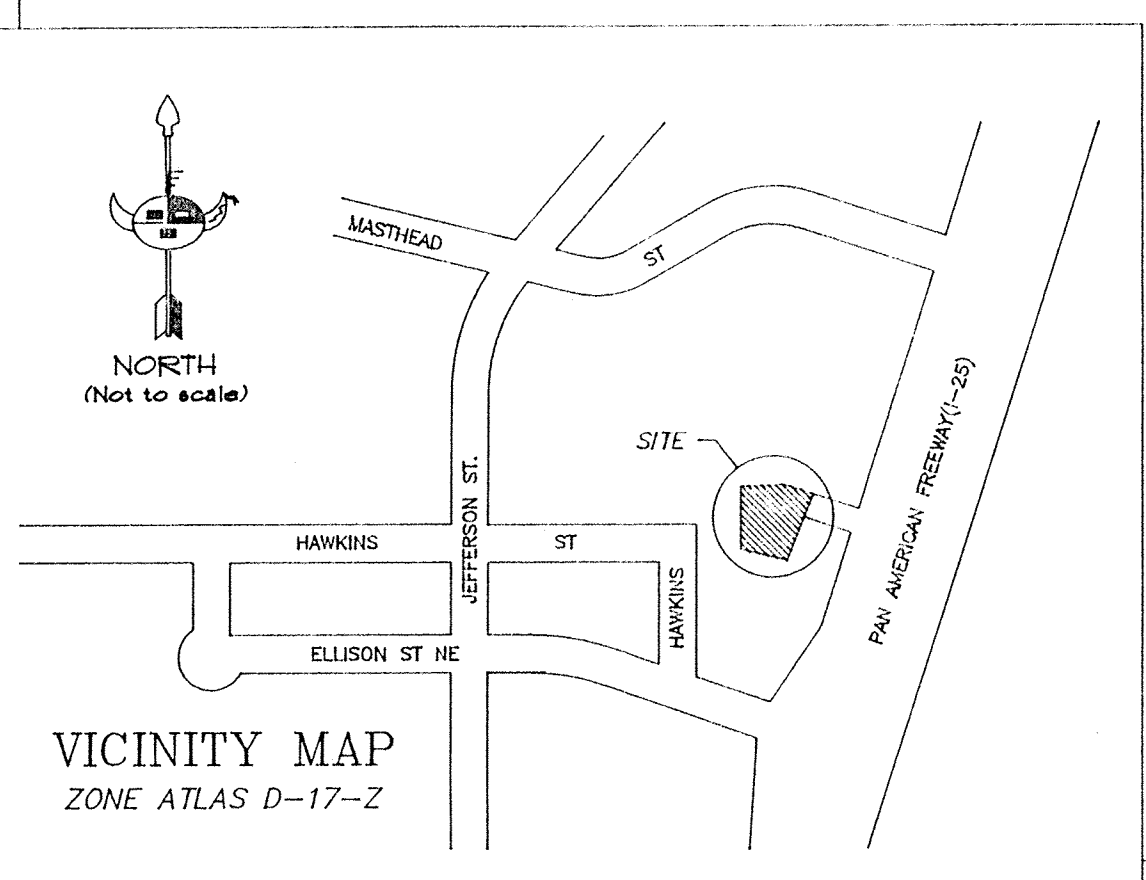
ABBREVIATION LEGEND

- TOP OF CONC DOCK - TD
- TOP OF CURB - TC
- TOP OF ASPHALT - TA
- FINISHED GRADE - FG
- FLOWLINE - FL
- TOP OF CONC. PAD - TPC
- LANDSCAPING - LS

GRADING & DRAINAGE PLAN

LEGAL DESCRIPTION
TRACT A-2, ACADEMY FOR BOYS
ALBUQUERQUE, BERNALILLO COUNTY,
NEW MEXICO.

CITY ADDRESS
7451 PAN AMERICAN FREEWAY NE



JOB NO. 8102
DATE: MAY 28, 1987
REVISION:
DRAWN BY: HHOOD
CHECKED BY: P. G. Lee, Jr., P.E.

SHEET TITLE
GRADING & DRAINAGE PLAN

HOOD & COMPANY
DEVELOPMENT CONSULTANTS - GENERAL CONTRACTORS
506 TOWNSEND ST. NE • ALBUQUERQUE, NM • 87102 • 505/240-5071

PROJECT NAME
PROPOSED ADDITION
FOR MCT INDUSTRIES
ALBUQUERQUE, NEW MEXICO

SHEET NO

1

DESIGN NARRATIVE

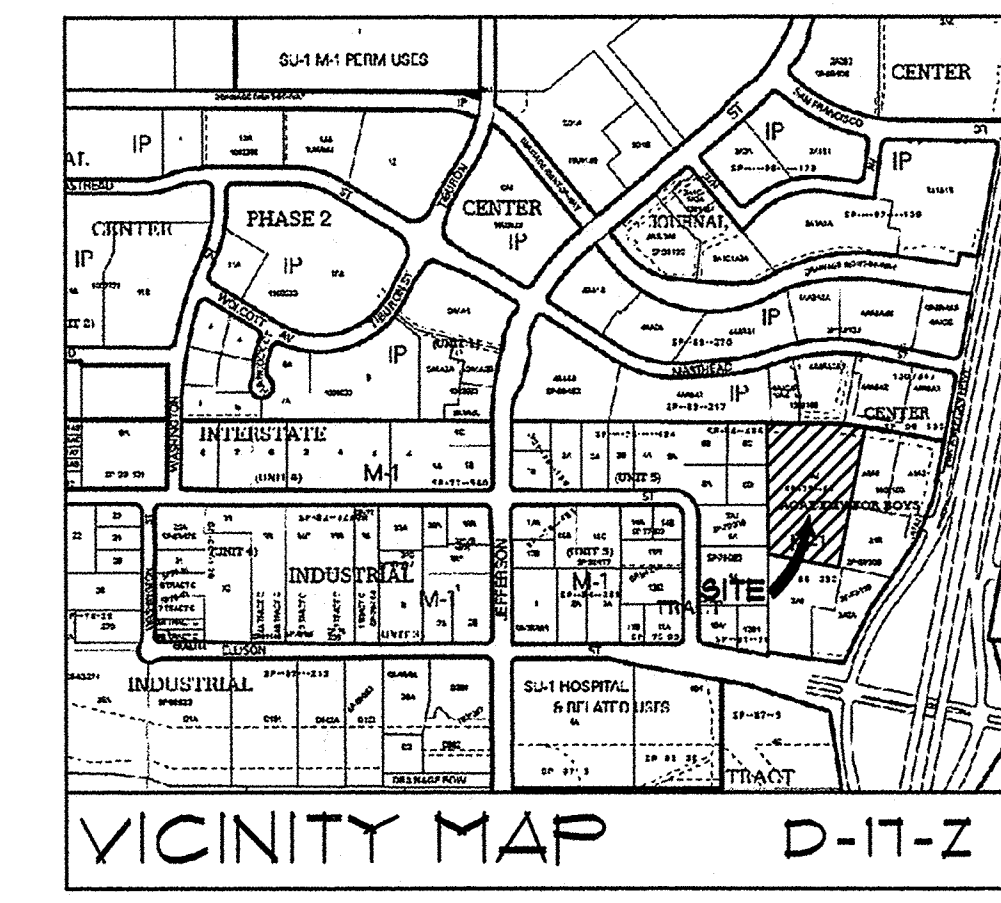
THIS PROJECT IS THE REPLACEMENT OF TWO EXISTING BUILDINGS WITH A SINGLE LARGER BUILDING ON THIS EXISTING SITE. THE NEW BUILDING AND ADJACENT PAVING WILL EXACTLY MATCH THE AMOUNT OF EXISTING IMPERMEABLE AREA THAT IT REPLACES. CURRENTLY THE SOUTH END OF THE SITE IS GRADED TO DIRECT RUNOFF TO A RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE AND THE NEW CONSTRUCTION WILL CONTINUE THIS SCHEME WITH AN ENLARGED POND TO STORE A 6 HR STORM VOLUME. THE PROJECT WILL NOT OTHERWISE AFFECT THE SITE AND ITS CURRENT DRAINAGE SCHEME. A NEW SERIES OF CATCH BASINS WILL BE INSTALLED WEST OF THE NEW STRUCTURE TO CORRECT STORM WATER ACCUMULATION ON EXISTING PAVING.

EXISTING BUILDING
FF= 4276.60

NEW BUILDING
FF= 4276.60

GRADING and DRAINAGE PLAN

1" = 20'-0"



BENCHMARK-NAVD 88
ACS MONUMENT "18 E18" HAVING AN ELEVATION OF 5269.66.

LEGAL DESCRIPTION

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KEYED NOTES

- 1 NEW CONCRETE PAVING PER DETAIL 1/C-201
- 2 24" SQUARE CATCH BASIN PER DETAIL 2/C-201
- 3 3'-0" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3/C-201

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 4276 --- EXISTING CONTOUR
- 15 --- NEW CONTOUR
- 4277.11 --- EXISTING SPOT ELEVATION
- 4277.11 --- NEW SPOT ELEVATION
- === BASIN LIMIT
- NEW FLOW DIRECTION ARROW
- FF FINISHED FLOOR
- FG FINISHED GRADE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- TG TOP OF GRATE
- INV TOP OF ASPHALT
- TU TOP OF WALL
- BW BOTTOM OF WALL
- BC BACK OF CURB
- FL FLOW LINE

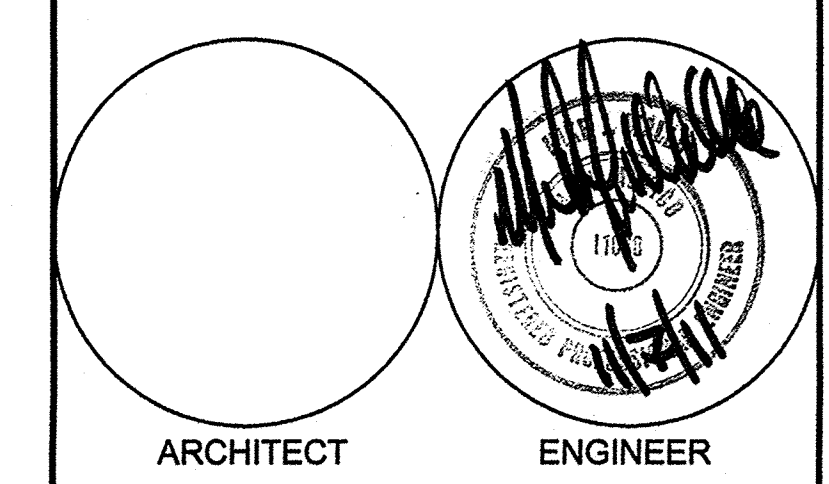
HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 2 DESIGN STORM: (IN)									
			1hr	6hr	24hr	4day	10day		
			2.01	2.35	3.15	3.30	3.95		
EXISTING CONDITIONS - SOUTH BASIN									
LAND TRMT	AREA (ACRE)	AREA %	P6 (CF8/AC)	Q (CF8)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)	
A	0.000	0%	0.53	1.56	0.00	0	0	0	
B	0.000	0%	0.18	2.28	0.00	0	0	0	
C	0.518	49%	1.13	3.14	1.81	2.371	2.371	2.371	
D	0.610	51%	2.12	5.10	2.87	4.694	5.580	6.798	8.237
TOTALS	1.188	100%		4.68	1.065	1.951	9.169	10.608	
PROPOSED CONDITIONS - SOUTH BASIN									
LAND TRMT	AREA (ACRE)	AREA %	P6 (CF8/AC)	Q (CF8)	V6 (CF)	V24 (CF)	V4DAY (CF)	V10DAY (CF)	
A	0.000	0%	0.53	1.56	0.00	0	0	0	
B	0.000	0%	0.18	2.28	0.00	0	0	0	
C	0.518	49%	1.13	3.14	1.81	2.371	2.371	2.371	
D	0.610	51%	2.12	4.70	2.87	4.694	5.580	6.798	8.237
TOTALS	1.188	100%		4.68	1.065	1.951	9.169	10.608	

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CONSULTANT



MCT
INDUSTRIES

ALBUQUERQUE,
NEW MEXICO

MARK	DATE	REVISION
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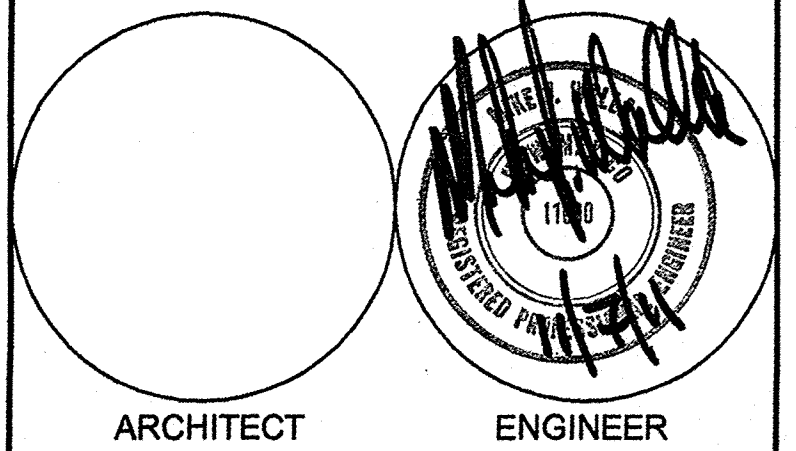
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CAD DWG FILE: C101.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE

GRADING and
DRAINAGE PLAN

C-101

CONSULTANT



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ALBUQUERQUE,
NEW MEXICO

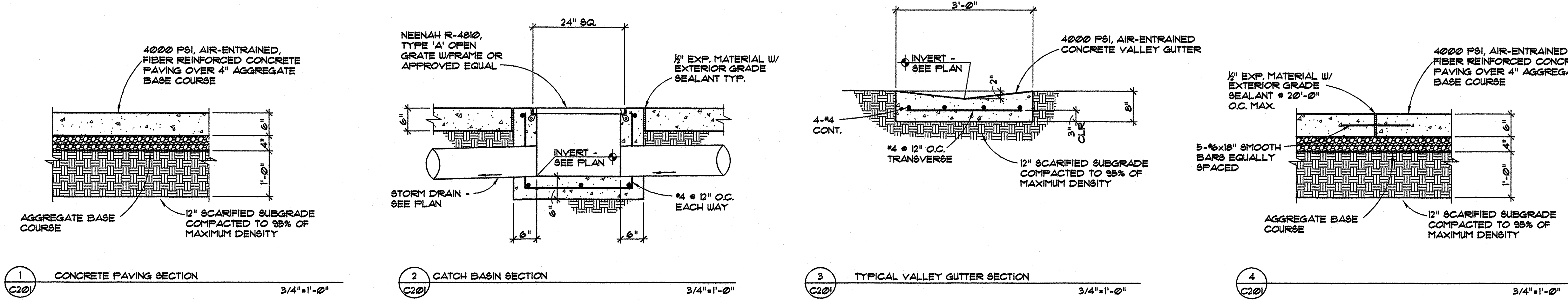
MARK	DATE	REVISION

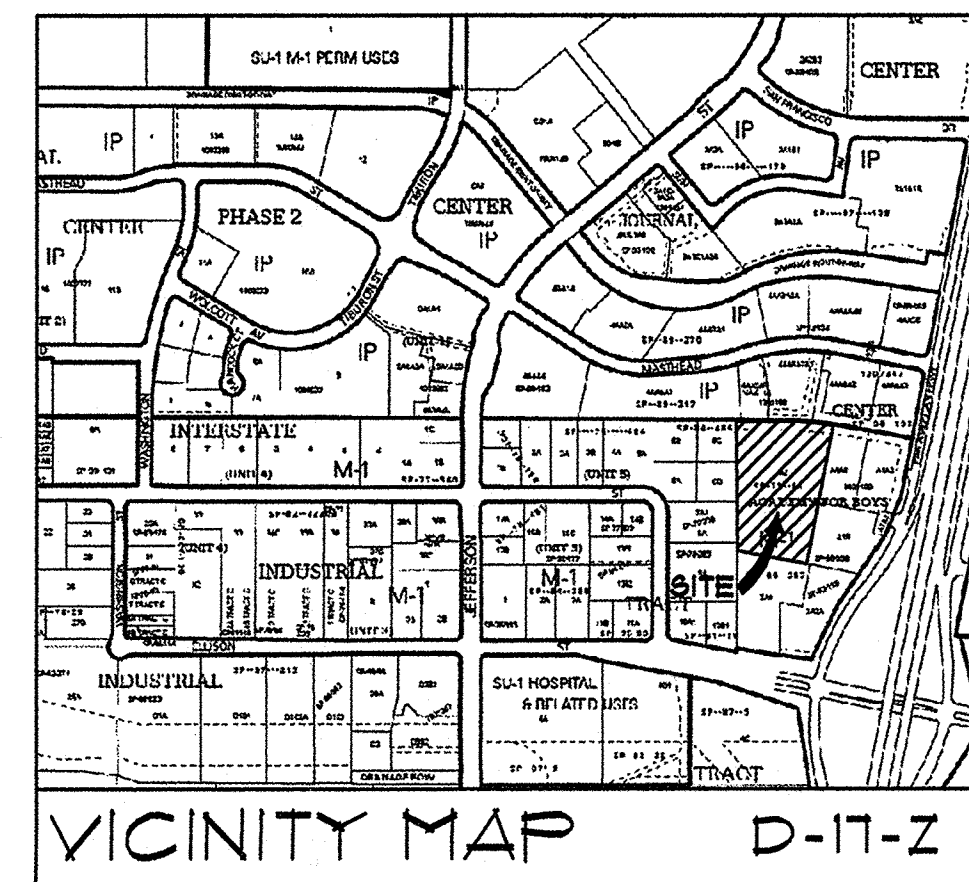
PROJECT NO: M47-0111
CAD DWG FILE: C201.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE
GRADING and
DRAINAGE DETAILS

C-201

RECEIVED
MAY 05 2011
HYDROLOGY
SECTION





BENCHMARK-NAVD 88
ACS MONUMENT "B E10" HAVING AN ELEVATION OF 5269.66'

LEGAL DESCRIPTION

PARCEL LETTERED "A-2" OF SUMMARY PLAT SHOWING PARCELS "A-1" AND "A-2" (COMPRISING REPLATTED PARCEL "A") OF A PORTION OF LANDS OF ACADEMY FOR BOYS WITHIN THE ELENA GALEGOS GRANT, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 21, 1915, IN PLAT BOOK C10, PAGE 89.

KEYED NOTES

- 1 NEW CONCRETE PAVING PER DETAIL 1/C-201
- 2 24" SQUARE CATCH BASIN PER DETAIL 2/C-201
- 3 3'-0" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3/C-201
- 4 6" TO 8" ROCK SLOPE PROTECTION OVER FILTER FABRIC
- 5 EXISTING ABANDONED 24" CMP

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 4276 --- EXISTING CONTOUR
- 15 --- NEW CONTOUR
- 4271.71 --- EXISTING SPOT ELEVATION
- 16.30 --- NEW SPOT ELEVATION
- == BASIN LIMIT
- NEW SWALE
- NEW FLOW DIRECTION ARROW
- FF FINISHED FLOOR
- FG FINISHED GRADE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- TG TOP OF GRATE
- INV TOP OF ASPHALT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- BC BACK OF CURB
- FL FLOW LINE
- EXISTING CONCRETE PAVED PAD TO REMAIN

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 2
DESIGN STORM: (IN)

EXISTING CONDITIONS - SOUTH BASIN				2.01	2.35	3.15	3.30	3.95
LAND AREA (ACRE)	%	F6	Q (CF8/AC)	Q (CF8)	V6 (CF)	V4 (CF)	V4DAY (CF)	V10DAY (CF)
TRMNT								
A	0.000	0%	0.53	1.56	0.00	0	0	0
B	0.000	0%	0.18	2.28	0.00	0	0	0
C	0.518	49%	1.13	3.14	1.81	2.371	2.371	2.371
D	0.610	51%	2.12	5.70	2.87	4.634	5.500	6.158
TOTALS	1.188	100%		4.68	7.065	7.351	9.169	10.608

PROPOSED CONDITIONS - SOUTH BASIN									
LAND AREA (ACRE)									
TRIMNT									
A	0.000	0%	0.53	1.56	0.00	0	0	0	0
B	0.000	0%	0.18	2.28	0.00	0	0	0	0
C	0.518	49%	1.13	3.14	1.81	2.371	2.371	2.371	2.371
D	0.610	51%	2.12	4.10	2.81	4.634	5.500	6.198	8.231
TOTALS	1.188	100%	4.68	10.65	1.951	9.169	10.608		

DESIGN NARRATIVE

THIS PROJECT IS THE REPLACEMENT OF TWO EXISTING BUILDINGS WITH A SINGLE LARGER BUILDING ON THIS EXISTING SITE. THE NEW BUILDING AND ADJACENT PAVING WILL EXACTLY MATCH THE AMOUNT OF EXISTING IMPERMEABLE AREA THAT IT REPLACES. CURRENTLY THE SOUTH END OF THE SITE IS GRADED TO DIRECT RUNOFF TO A RETENTION FOND AT THE SOUTHWEST CORNER OF THE SITE AND THE NEW CONSTRUCTION WILL CONTINUE THIS SCHEME WITH AN ENLARGED FOND TO STORE A 6 HR STORM VOLUME. THE PROJECT WILL NOT OTHERWISE AFFECT THE SITE AND ITS CURRENT DRAINAGE SCHEME. A NEW SERIES OF CATCH BASINS WILL BE INSTALLED WEST OF THE NEW STRUCTURE TO CORRECT STORM WATER ACCUMULATION ON EXISTING PAVING.

EXISTING BUILDING
FF = 4276.60

NEW BUILDING
FF = 4276.60

SOUTH BASIN

GRADING and DRAINAGE PLAN

1" = 20'-0"

MCT
INDUSTRIES

ALBUQUERQUE,
NEW MEXICO

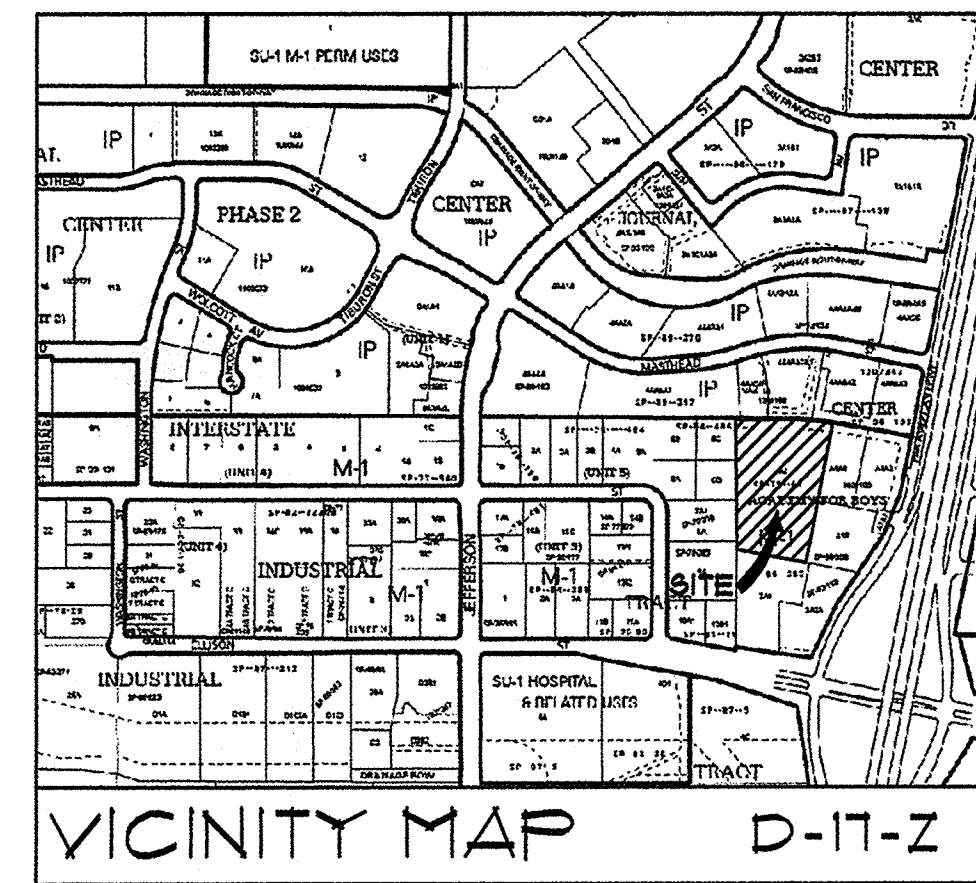
MARK DATE REVISION

PROJECT NO: M47-0111
CAD DWG FILE: C101.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE

GRADING and
DRAINAGE PLAN

C-101



BENCHMARK-NAVD 88
ACS MONUMENT "10 E18" HAVING AN ELEVATION OF 5269.166'

LEGAL DESCRIPTION

PARCEL LETTERED "A-2" OF SUMMARY PLAT SHOWING PARCELS "A-1" AND "A-2" (COMPRISING REPLATTED PARCEL "A") OF A PORTION OF LANDS OF ACADEMY FOR BOYS WITHIN THE ELENA GALLEGOS GRANT, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE REPLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 21, 1915, IN PLAT BOOK C10, PAGE 88.

KEYED NOTES

- 1 NEW CONCRETE PAVING PER DETAIL 1/C-201
- 2 24" SQUARE CATCH BASIN PER DETAIL 2/C-201
- 3 3'-0" WIDE CONCRETE VALLEY GUTTER PER DETAIL 3/C-201
- 4 6" TO 8" ROCK SLOPE PROTECTION OVER FILTER FABRIC
- 5 EXISTING ABANDONED 24" CMP

LEGEND

- PROPERTY LINE
- NEW BUILDING LINE
- 4276 --- EXISTING CONTOUR
- 15 --- NEW CONTOUR
- 4271.11 --- EXISTING SPOT ELEVATION
- 16.30 --- NEW SPOT ELEVATION
- == BASIN LIMIT
- NEW SWALE
- NEW FLOW DIRECTION ARROW
- FF FINISHED FLOOR
- FG FINISHED GRADE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- TG TOP OF GRATE
- INV TOP OF ASPHALT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- BC BACK OF CURB
- FL FLOW LINE
- EXISTING CONCRETE PAVED PAD TO REMAIN

RECEIVED
FEB 02 2012
HYDROLOGY SECTION

HYDROLOGY CALCULATIONS

PRECIPITATION ZONE 2
DESIGN STORM: (IN)

EXISTING CONDITIONS - SOUTH BASIN									
LAND AREA	AREA	F6	Q8	Q6	V6	V24	V4DAY	V10DAY	
TRMTNT	(ACRE)	%	(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)	
A	0.000	0%	0.53	1.56	0.00	0	0	0	
B	0.000	0%	0.18	2.28	0.00	0	0	0	
C	0.518	49%	1.13	3.14	1.81	2.31	2.31	2.31	
D	0.610	51%	2.12	5.10	2.81	4.64	5.50	6.79	
TOTALS	1.188	100%			4.68	7.065	7.951	9.169	

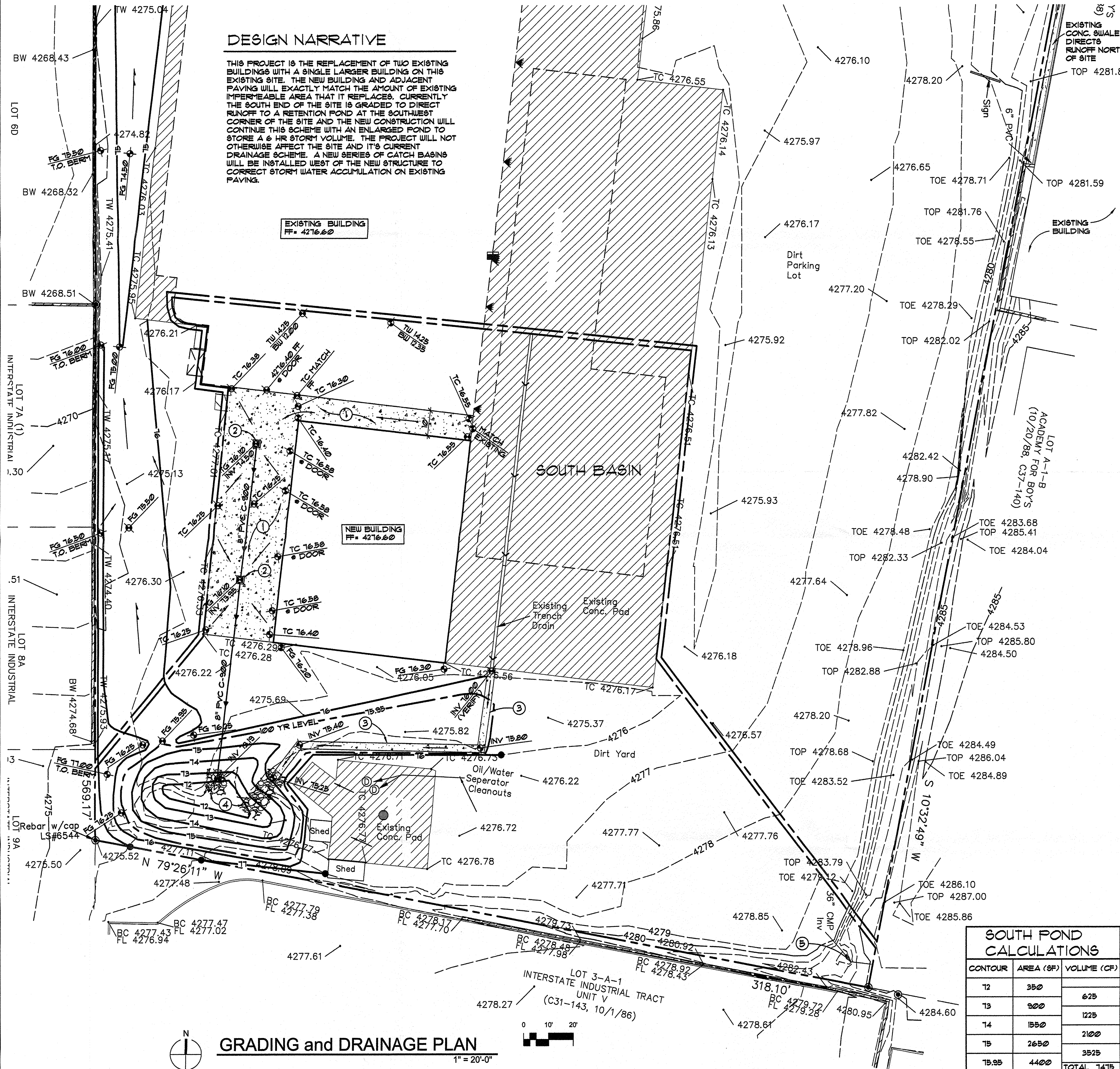
PROPOSED CONDITIONS - SOUTH BASIN									
LAND AREA (ACRE)									
TRTMT (%)									
A	0.000	0%	0.53	1.56	0.00	0	0	0	0
B	0.000	0%	0.18	2.28	0.00	0	0	0	0
C	0.518	49%	1.13	3.14	1.81	2.31	2.31	2.31	2.31
D	0.610	51%	2.12	4.10	2.81	4.64	5.50	6.79	8.23
TOTALS	1.188	100%	4.68	10.65	1.951	9.169	10.608		

SOUTH POND CALCULATIONS

CONTOUR	AREA (SF)	VOLUME (CF)
12	350	625
13	900	1225
14	1550	2100
15	2650	3525
15.95	4400	
TOTAL	7475	

DESIGN NARRATIVE

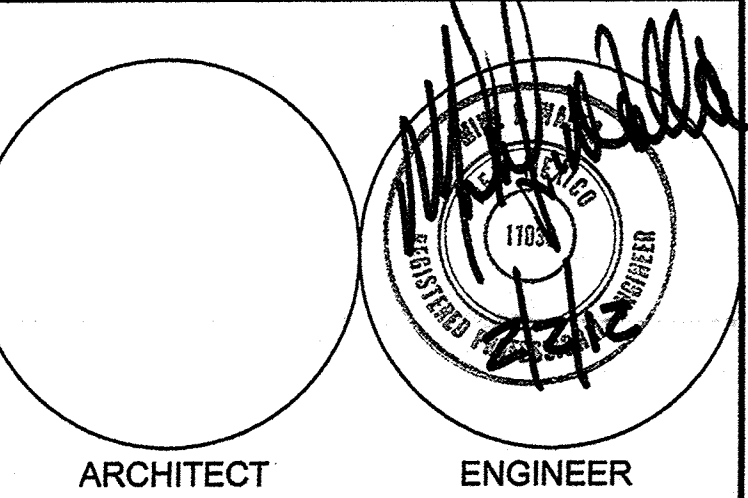
THIS PROJECT IS THE REPLACEMENT OF TWO EXISTING BUILDINGS WITH A SINGLE LARGER BUILDING ON THIS EXISTING SITE. THE NEW BUILDING AND ADJACENT PAVING WILL EXACTLY MATCH THE AMOUNT OF EXISTING IMPERMEABLE AREA THAT IT REPLACES. CURRENTLY THE SOUTH END OF THE SITE IS GRADED TO DIRECT RUNOFF TO A RETENTION POND AT THE SOUTHWEST CORNER OF THE SITE AND THE NEW CONSTRUCTION WILL CONTINUE THIS SCHEME WITH AN ENLARGED POND TO STORE A 6 HR STORM VOLUME. THE PROJECT WILL NOT OTHERWISE AFFECT THE SITE AND ITS CURRENT DRAINAGE SCHEME. A NEW SERIES OF CATCH BASINS WILL BE INSTALLED WEST OF THE NEW STRUCTURE TO CORRECT STORM WATER ACCUMULATION ON EXISTING PAVING.



GRADING and DRAINAGE PLAN

1" = 20'-0"

CONSULTANT



MCT INDUSTRIES

ALBUQUERQUE,
NEW MEXICO

MARK DATE REVISION

PROJECT NO: M47-0111
CAD DWG FILE: C101.DWG
DRAWN BY: LEK
CHECKED BY: MJW

SHEET TITLE

GRADING and
DRAINAGE PLAN

C-101