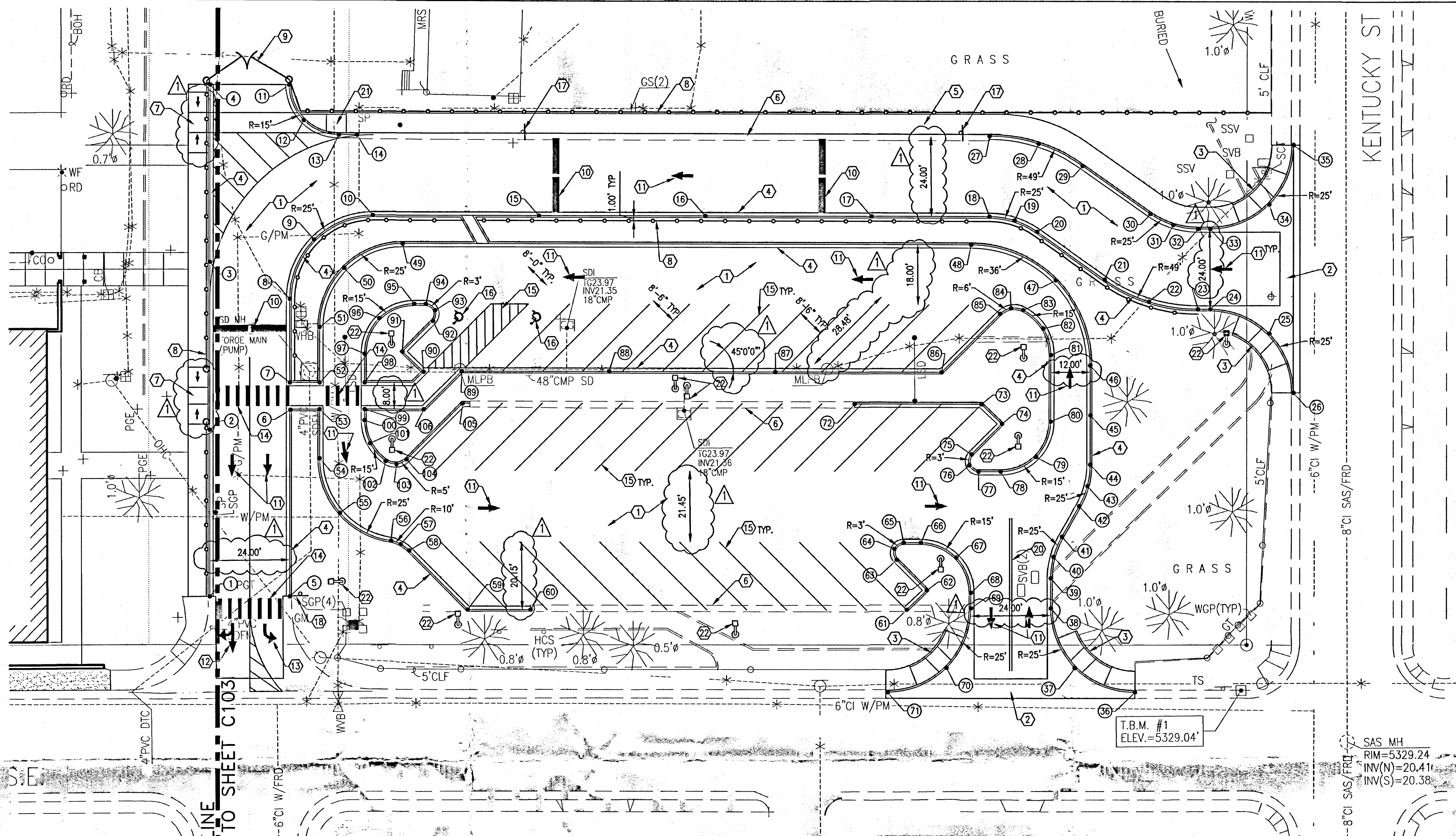




B1 SITE PLAN - PARKING LOT

C104 REF. C104

SCALE: 1" = 20'-0"



POINT TABLE			
POINT	NORTHING	EASTING	REMARK
1	5011.88	5288.65	
2	5061.76	5289.11	
3	5111.88	5289.54	
4	5164.70	5290.00	
5	5011.67	5312.65	
6	5067.67	5313.15	
7	5075.67	5313.22	
8	5100.63	5313.44	
9	5118.24	5320.92	
10	5125.41	5338.66	
11	5164.50	5313.71	
12	5153.94	5318.06	
13	5149.50	5328.58	
14	5149.45	5334.08	
15	5124.97	5388.66	
16	5124.53	5438.63	
17	5124.08	5488.65	
18	5123.77	5524.07	
19	5122.55	5531.58	
20	5119.12	5538.37	
21	5104.67	5558.63	
22	5097.96	5571.94	
23	5095.57	5586.65	
24	5095.53	5590.31	
25	5088.07	5607.91	
26	5070.34	5615.09	
27	5147.77	5524.29	
28	5138.66	5552.31	
29	5138.66	5552.31	
30	5124.21	5572.57	
31	5120.79	5579.36	
32	5119.56	5586.86	
33	5119.53	5590.50	
34	5126.69	5608.24	
35	5144.30	5615.72	
36	4981.09	5666.33	
37	4988.56	5648.69	
38	5006.31	5541.51	
39	5015.33	5541.59	
40	5021.79	5542.50	

POINT TABLE			
POINT	NORTHING	EASTING	REMARK
41	5027.80	5545.05	
42	5036.93	5550.43	
43	5042.94	5552.98	
44	5049.40	5553.89	
45	5064.23	5564.23	
46	5079.06	5564.65	
47	5104.61	5543.83	
48	5115.38	5518.47	
49	5116.88	5347.62	
50	5109.72	5329.84	
51	5092.11	5322.36	
52	5075.59	5322.22	
53	5067.59	5322.15	
54	5052.88	5322.02	
55	5036.47	5327.97	
56	5027.95	5343.21	
57	5026.97	5346.24	
58	5025.08	5348.81	
59	5007.35	5366.23	
60	5007.18	5385.24	
61	5006.19	5498.23	
62	5011.99	5504.42	
63	5021.23	5495.34	
64	5024.50	5494.72	
65	5026.33	5497.51	
66	5026.29	5502.69	
67	5021.80	5513.26	
68	5011.16	5317.55	
69	5006.48	5317.51	
70	4988.88	5510.05	
71	4981.70	5492.34	
72	5068.09	5483.08	
73	5067.71	5521.27	
74	5061.80	5527.35	
75	5052.72	5518.12	
76	5049.46	5517.44	
77	5047.58	5520.19	
78	5047.52	5526.87	
79	5051.82	5537.52	
80	5062.39	5542.00	

POINT TABLE			
POINT	NORTHING	EASTING	REMARK
81	5082.28	5542.18	
82	5090.20	5540.00	
83	5095.78	5533.98	
84	5096.36	5530.34	
85	5094.71	5527.05	
86	5077.32	5509.35	
87	5077.76	5459.35	
88	5078.20	5409.36	
89	5078.59	5365.01	
90	5078.52	5353.53	
91	5084.61	5347.27	
92	5093.68	5356.51	
93	5096.95	5357.19	
94	5098.82	5354.43	
95	5098.85	5350.92	
96	5094.55	5340.28	
97	5083.99	5335.79	
98	5075.47	5335.72	
99	5067.47	5335.65	
100	5064.21	5335.62	
101	5057.29	5337.24	
102	5051.90	5341.86	
103	5050.97	5345.16	
104	5052.39	5348.28	
105	5069.03	5365.22	
106	5067.31	5353.53	

TRANSPORTATION CERTIFICATION

I, MANUEL TARIN III, NMPE #18741, OF THE FIRM AECOM, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 2/04/2010. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION 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 TRANSPORTATION 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.

Manuel Tarin III
MANUEL TARIN III, NMPE #18741
5/17/2011 (SEAL)
DATE

GENERAL NOTES

- ALL POINT COORDINATES AND RADII ARE AT CURB AND GUTTER FLOWLINE.
- ALL PARKING LOT CURB AND GUTTER IS PER COA DWG. 2415B.
- TRUNCATED DOMES SHALL BE INSTALLED AT ALL NEW ADA ACCESSIBLE RAMPS ALONG KENTUCKY STREET AND SOUTHERN AVENUE.

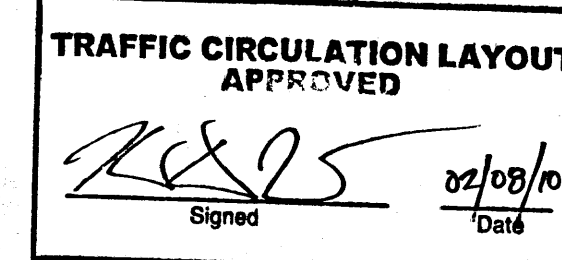
Kentucky

KEYED NOTES

- 4" MIN. PLANT MIX BITUMINOUS PAVEMENT (ASPHALT PAVEMENT), 8" MIN. AGGREGATE BASE COURSE, 6" MIN. SUBGRADE PREP. AT 95% MODIFIED PROCTOR.
- CONCRETE VALLEY GUTTER PER COA DWG. 2420 AND DRIVE PAD PER COA DWG. 2426.
- WHEELCHAIR CURB ACCESS RAMP PER COA DWG. 2441.
- MEDIAN CURB AND GUTTER PER COA STD. DWG. 2430.
- 6" WIDE SIDEWALK PER COA STD. DWG. 2430.
- EXISTING CURB AND GUTTER TO REMAIN.
- 5' WIDE WHEELCHAIR CURB ACCESS RAMP. 12:1 MAX. SLOPE ALL DIRECTIONS.
- 4' HIGH CHAIN LINK FENCE.
- 4' HIGH DOUBLE CHAIN LINK GATES.
- 2' WIDE x 3" HIGH ASPHALT SPEED BUMP PAINTED YELLOW.
- PAINTED WHITE THROUGH ARROW.
- PAINTED WHITE THRU/RIGHT ARROW.
- PAINTED WHITE LEFT ARROW.
- 8' WIDE PAINTED WHITE CROSSWALK. 1' WIDE STRIPES AT 3' O.C.
- 4" PAINTED WHITE STRIPE.
- PAINTED WHITE HANDICAP PARKING.
- TRAFFIC SIGN "STUDENT PICK-UP/DROP-OFF, PLEASE PULL FORWARD".
- TRAFFIC SIGN "EXIT ONLY".
- NOT USED.
- 4" PAINTED DOUBLE YELLOW STRIPE.
- WHEELCHAIR ACCESS RAMP W/ HEADER CURB. 12:1 MAX SLOPE.
- SOLAR POWERED STREET LIGHT, SEE DETAIL SHEET C502.

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.



CLIENT

ALBUQUERQUE PUBLIC SCHOOLS

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ALBUQUERQUE, NEW MEXICO 87106
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DESIGNER

DMJM H&N | AECOM

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CONSULTANTS

REGISTRATION

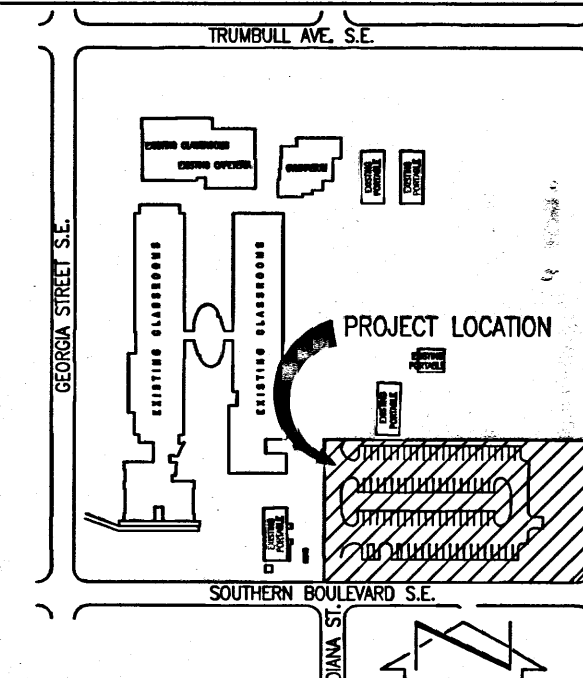


ISSUE

MARK	DATE	DESCRIPTION
1	02/04/10	PLAN CHECK REVISIONS
0	10/06/09	ISSUED FOR CONSTRUCTION

PROJECT NO: 60040205
DRAWN BY: A. GALLEGOS
CHECKED BY: P. LOVATO

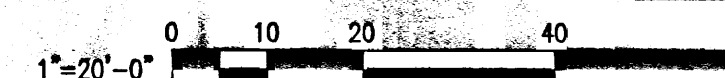
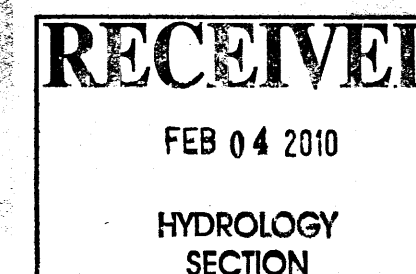
KEY PLAN

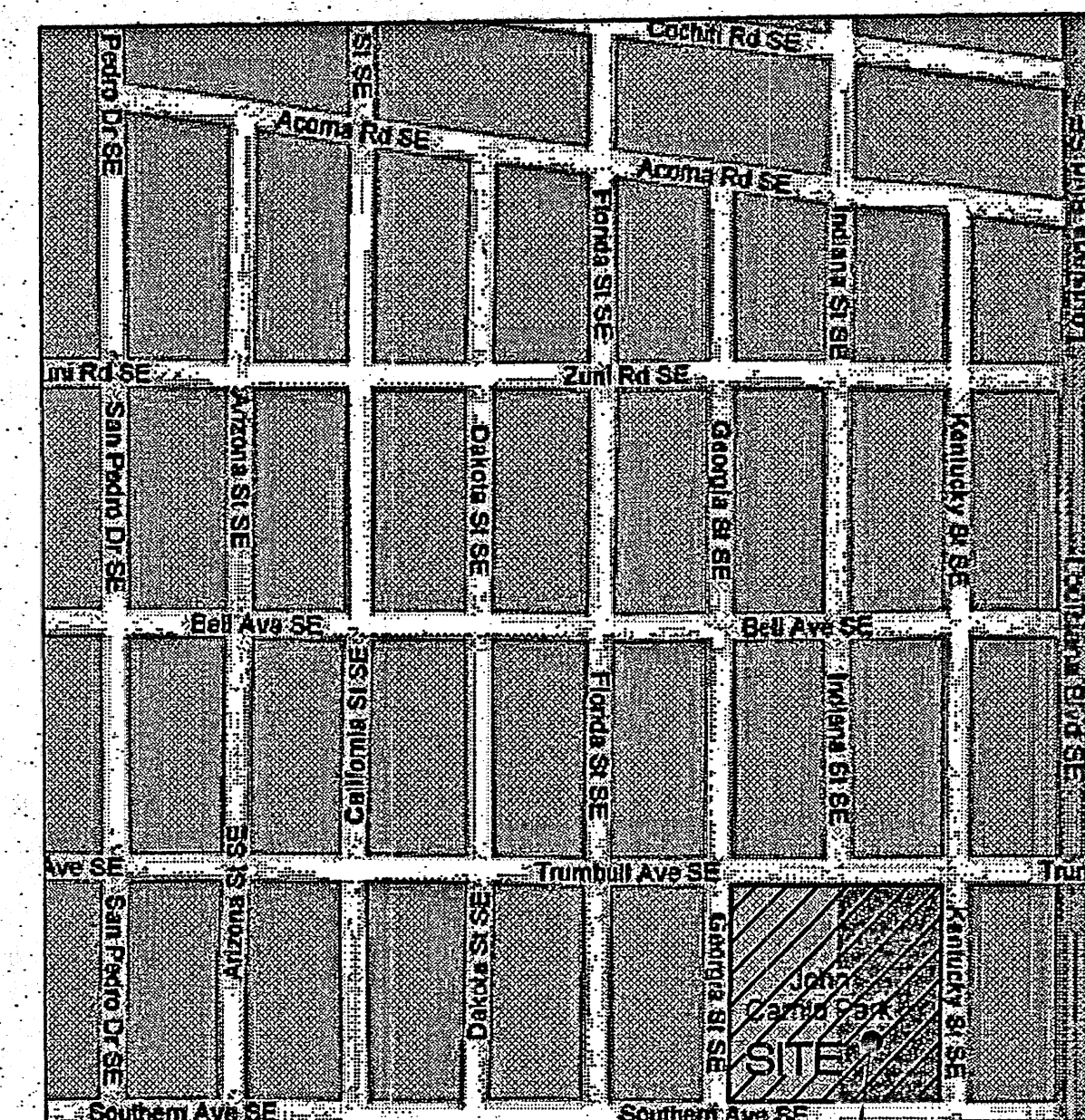


SHEET TITLE

EMERSON KINDERGARDEN
& FINE ARTS ADDITION
SITE PLAN
PARKING LOT

C104





NORTH

A simple compass rose with a circle divided into four quadrants by a vertical and a horizontal line. The top quadrant is labeled 'NORTH', the bottom 'SOUTH', the left 'WEST', and the right 'EAST'.

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

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600

700

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1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

MAP NO. I-18

MAP NO. I-18

- DRAINAGE BOUNDARY AREA
- ① DRAINAGE BOUNDARY NUMBER
- - - - - EXISTING CONTOUR
- NEW CONTOUR
- DIRECTION OF FLOW

A. SEE SHEETS C106 AND C107 FOR SPOT ELEVATIONS AND ADDITIONAL GRADING INFORMATION.

1. INSTALL 15" DIA INLINE DRAIN WITH 15" OUTLET. INLINE DRAINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
2. INSTALL 15" DIA CORRUGATED HDPE PIPE. SEE DETAIL A2 SHEET C501 FOR STORM DRAIN PROFILE.
3. GRADE TO DRAIN.
4. SLOPE SLAB/TURF TO DRAIN TO NEW 10" DIA INLET GRATE.
5. INSTALL 10" DIA INLINE DRAIN WITH 10" OUTLET. INLINE DRAINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
6. INSTALL 10" DIA CORRUGATED HDPE PIPE. SEE DETAIL A3 SHEET C501 FOR STORM DRAIN PROFILE.
7. INSTALL 18" DIA CORRUGATED HDPE PIPE.
8. INSTALL 24" DIA DRAIN BASIN WITH SOLID COVER. *Slotted*
9. INSTALL 10" DRAIN BASIN. DRAIN BASINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
10. INSTALL UNDERGROUND STORM WATER DETENTION BASIN USING STORMTECH SC-740 CHAMBERS OR APPROVED EQUAL. INSTALL PER MANUFACTURERS INSTRUCTIONS.
11. INSTALL 4" UNDERDRAIN TIE TO EXISTING MANHOLE.
12. THIS ROW OF CHAMBERS TO BE THE STORM WATER QUALITY ISOLATOR ROW. INSTALL PER MANUFACTURERS INSTRUCTIONS.

BLOCKS 22 AND 23, MESA PARK ADDITION, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON AUGUST 31, 1923, BOOK B, PAGE 29; TOGETHER WITH THE VACATED PORTION OF INDIANA STREET S.E. DESCRIBED BY V-253 (COMMISSION. ORDINANCE NO. 1656) EXECUTED ON JANUARY 12, 1960.

CLIENT

ALBUQUERQUE PUBLIC SCHOOLS

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DESIGNER

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CONSULTANTS

REGISTRATION



ISSUE

PROJECT NO:	60040205
DRAWN BY:	J.L. MOORE
CHECKED BY:	M. TARIN

KEY PLAN

SHEET TITLE

EMERSON KINDERGARTEN & FINE ARTS ADDITION OVERALL GRADING AND DRAINAGE PLAN

C108

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EXISTING SITE CONDITIONS

THE ADDITION TO EMERSON ELEMENTARY SCHOOL IS LOCATED ON THE SOUTHWESTERN CORNER OF THE ALBUQUERQUE PUBLIC SCHOOLS PROPERTY. THE EXISTING PARKING LOT WHICH WILL BE IMPROVED IS LOCATED DIRECTLY EAST OF THE BUILDING ADDITION. PRIOR TO THE PROPOSED BUILDING ADDITION THERE WERE TWO TO THREE PORTABLE BUILDINGS SITTING ON TEMPORARY CONCRETE PEDESTAL FOUNDATIONS. THE PORTABLE BUILDINGS HAVE BEEN REMOVED AND ONLY 2 CONCRETE PEDESTALS REMAIN AND WILL BE REMOVED AS PART OF THIS PROJECT.

EXISTING STORM DRAINAGE SURFACE FLOWS AWAY FROM THE BUILDING. A COURTYARD AREA (BASIN 2) BETWEEN THE TWO WINGS NORTH OF THE ADDITION COLLECT STORM WATER FLOWS WITH OUT ANY MEANS OF CONVEYING THE FLOW OFF SITE. IT IS EFFECTIVELY A POND. THE EXISTING PARKING LOT (BASIN 3) SURFACE FLOWS TO TWO EXISTING DROP INLET STRUCTURES (WHICH WILL REMAIN IN PLACE AND CLEANED) AND ROUTES THE STORM WATER TO A PUMP (WHICH WILL REMAIN IN PLACE AND CLEANED) WHICH TAKES THE WATER OUT TO THE STREET.

PROPOSED STORM DRAINAGE

BASIN 1 ENCOMPASSES THE PARKING; THE UPGRADED PARKING LOT WILL BE GRADED TO MATCH EXISTING DRAINAGE DIRECTION AND ALL STORM WATER WILL BE ROUTED TO THE TWO EXISTING DROP INLET STRUCTURES AND THEN TO THE PUMP TO EXIT THE SITE. THE AREA THAT PREVIOUSLY PONDED (BASIN 2) WILL PROPERLY DRAIN OUT THROUGH A SERIES OF 15 INCH DIAMETER INLINE DRAINS AND 15 INCH PIPE. BASIN 3 WILL UTILIZE 10 INCH INLINE DRAINS AND 10 INCH PIPE TO REMOVE STORM WATER FROM THE PATIO AREA. BASINS 2 AND 3 WILL TIE TOGETHER EAST OF THE NEW BUILDING AND DRAIN TO THE NEW UNDERGROUND STORAGE BASIN IN THE PARKING LOT. THE STORM WATER WILL BE ROUTED AND TIED INTO THE EXISTING LIFT STATION WHERE THE FLOW WILL BE PUMPED OUT TO THE STREET. THE PUMP SUPPLIES A FLOW RATE OF 0.2 CUBIC FEET PER SECOND (90 GPM).

THE NEW STORAGE BASIN UTILIZES 96 STORM WATER CHAMBERS AND WILL ACCOMMODATE APPROXIMATELY 8,000 CUBIC FEET OF STORAGE.

A1 | OVERALL GRADING AND DRAINAGE PLAN

C108	REF. C106
------	-----------

SCALE: 1" = 40'-0"

DRAINAGE CERTIFICATION

I, **MANUEL TARRIN**, NMPE #18741, OF THE FIRM **AECOM** 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 2/02/2010. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION 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 THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

MANUEL TARIN III, NMPE #18741

5/13/2011

(SEAL)

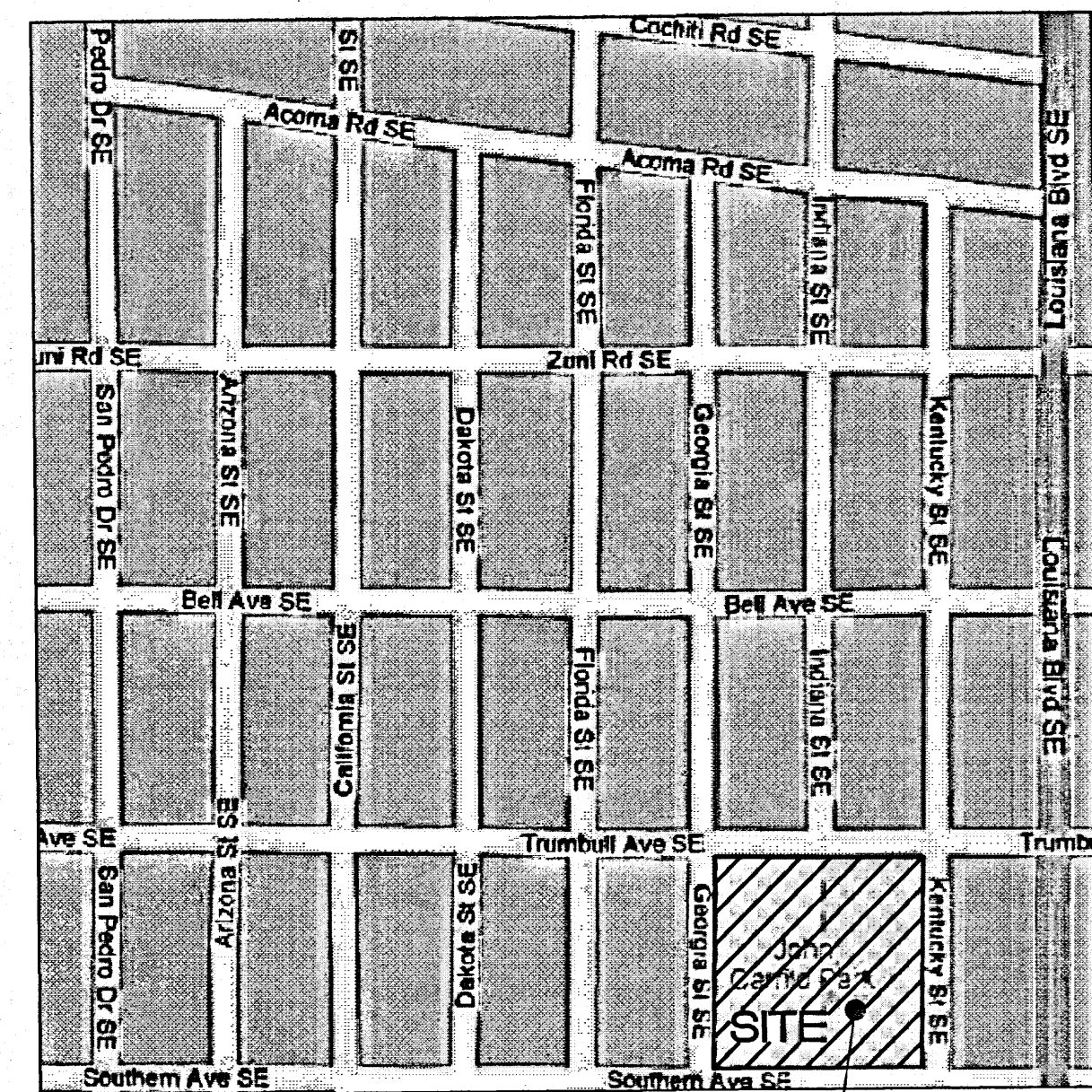
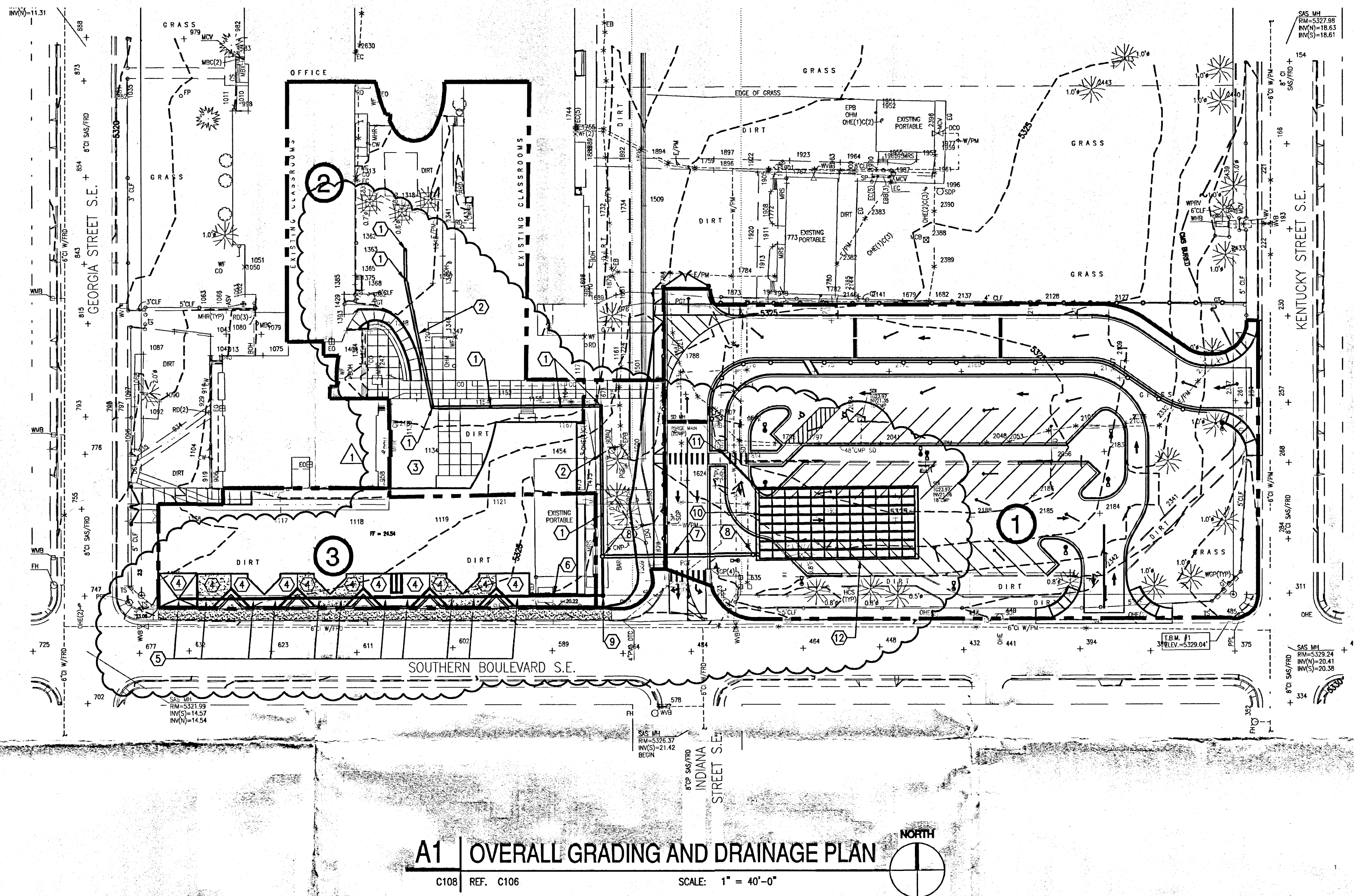
EXISTING DRAINAGE CONDITIONS				DEVELOPED DRAINAGE CONDITIONS			
	TREATMENT	VOL 300 (^{MG} / _{FT})	Q 100 (cfs)		TREATMENT	VOL 300 (^{MG} / _{FT})	Q 100 (cfs)
DRAINAGE AREA 1	0.42 ACRES B 0.79 ACRES D	0.19	5.06	0.38 ACRES B 0.82 ACRES D	0.19	5.10	
DRAINAGE AREA 2	0.26 ACRES B 0.48 ACRES D	0.11	3.09	0.21 ACRES B 0.53 ACRES D	0.12	3.21	
DRAINAGE AREA 3	0.33 ACRES C	0.04	1.14	0.33 ACRES D	0.06	1.66	
TOTAL	2.28 ACRES		9.29	2.27 ACRES		9.97	

POND SIZING CALCULATION

TIME OF CONCENTRATION	t_c	0.200 hr	720 sec
BASE TIME	t_B	0.764 hr	2750.4 sec
TIME TO PEAK	t_p	0.238 hr	856.8 sec
DURATION OF PEAK	DURATION _p	0.180 hr	648 sec
PUMP FLOW RATE (OUTPUT)	Q_{out}	0.2 cf/sec	
PEAK DEVELOPED FLOW RATE	Q_T	4.87 cf/sec	BASIN 2 & 3 TOTAL
REQUIRED STORAGE VOLUME*	$V_{storage}$	8,000 cf	

$$* V_{\text{storage}} = [t_p \times 0.5 + \text{DURATION}_p + (t_B - t_p - \text{DURATION}_p) \times 0.5] \times (Q_T - Q_{\text{out}})$$

1"=40'-0"



EMERSON ELEMENTARY

VICINITY MAP

MAP NO. L-18

LEGEND

- DRAINAGE BOUNDARY AREA
- ① DRAINAGE BOUNDARY NUMBER
- 5225--- EXISTING CONTOUR
- NEW CONTOUR
- DIRECTION OF FLOW

GENERAL NOTES

A. SEE SHEETS C106 AND C107 FOR SPOT ELEVATIONS AND ADDITIONAL GRADING INFORMATION.

KEYED NOTES

1. INSTALL 15" DIA INLINE DRAIN WITH 15" OUTLET. INLINE DRAINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
2. INSTALL 15" DIA CORRUGATED HDPE PIPE. SEE DETAIL A2 SHEET C501 FOR STORM DRAIN PROFILE.
3. GRADE TO DRAIN.
4. SLOPE SLAB/TURF TO DRAIN TO NEW 10" DIA INLET GRATE.
5. INSTALL 10" DIA INLINE DRAIN WITH 10" OUTLET. INLINE DRAINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
6. INSTALL 10" DIA CORRUGATED HDPE PIPE. SEE DETAIL A3 SHEET C501 FOR STORM DRAIN PROFILE.
7. INSTALL 18" DIA CORRUGATED HDPE PIPE.
8. INSTALL 24" DIA DRAIN BASIN WITH SOLID COVER.
9. INSTALL 10" DRAIN BASIN. DRAIN BASINS SHALL BE MANUFACTURED BY NYLOPLAST OR APPROVED EQUAL.
10. INSTALL UNDERGROUND STORM WATER DETENTION BASIN USING STORMTECH SC-740 CHAMBERS OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
11. INSTALL 4" UNDERDRAIN TIE TO EXISTING MANHOLE.
12. THIS ROW OF CHAMBERS TO BE THE STORM WATER QUALITY ISOLATOR ROW. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

LEGAL DESCRIPTION

BLOCKS 22 AND 23, MESA PARK ADDITION, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON AUGUST 31, 1923, BOOK B, PAGE 29; TOGETHER WITH THE VACATED PORTION OF INDIANA STREET S.E. DESCRIBED BY V-253 (COMMISSION ORDINANCE NO. 1656) EXECUTED ON JANUARY 12, 1960.

DRAINAGE NOTES

EXISTING SITE CONDITIONS

THE ADDITION TO EMERSON ELEMENTARY SCHOOL IS LOCATED ON THE SOUTHWESTERN CORNER OF THE ALBUQUERQUE PUBLIC SCHOOLS PROPERTY. THE EXISTING PARKING LOT WHICH WILL BE IMPROVED IS LOCATED DIRECTLY EAST OF THE BUILDING ADDITION. PRIOR TO THE PROPOSED BUILDING ADDITION THERE WERE TWO TO THREE PORTABLE BUILDINGS SITTING ON TEMPORARY CONCRETE PEDESTAL FOUNDATIONS. THE PORTABLE BUILDINGS HAVE BEEN REMOVED AND ONLY 2 CONCRETE PEDESTALS REMAIN AND WILL BE REMOVED AS PART OF THIS PROJECT.

EXISTING STORM DRAINAGE SURFACE FLOWS AWAY FROM THE BUILDING. A COURTYARD AREA (BASIN 2) BETWEEN THE TWO WINGS NORTH OF THE ADDITION COLLECT STORM WATER FLOWS WITH OUT ANY MEANS OF CONVEYING THE FLOW OFF SITE. IT IS EFFECTIVELY A POND. THE EXISTING PARKING LOT (BASIN 3) SURFACE FLOWS TO TWO EXISTING DROP INLET STRUCTURES (WHICH WILL REMAIN IN PLACE AND CLEANED) AND ROUTES THE STORM WATER TO A PUMP (WHICH WILL REMAIN IN PLACE AND CLEANED) WHICH TAKES THE WATER OUT TO THE STREET.

PROPOSED STORM DRAINAGE

BASIN 1 ENCOMPASSES THE PARKING; THE UPGRADED PARKING LOT WILL BE GRADED TO MATCH EXISTING DRAINAGE DIRECTION AND ALL STORM WATER WILL BE ROUTED TO THE TWO EXISTING DROP INLET STRUCTURES AND THEN TO THE PUMP TO EXIT THE SITE. THE AREA THAT PREVIOUSLY PONDED (BASIN 2) WILL PROPERLY DRAIN OUT THROUGH A SERIES OF 15 INCH DIAMETER INLINE DRAINS AND 15 INCH PIPE. BASIN 3 WILL UTILIZE 10 INCH INLINE DRAINS AND 10 INCH PIPE TO REMOVE STORM WATER FROM THE PATIO AREA. BASINS 2 AND 3 WILL TIE TOGETHER EAST OF THE NEW BUILDING AND DRAIN TO THE NEW UNDERGROUND STORAGE BASIN IN THE PARKING LOT. THE STORM WATER WILL BE ROUTED AND TIED INTO THE EXISTING LIFT STATION WHERE THE FLOW WILL BE PUMPED OUT TO THE STREET. THE PUMP SUPPLIES A FLOW RATE OF 0.2 CUBIC FEET PER SECOND (90 GPM).

THE NEW STORAGE BASIN UTILIZES 96 STORM WATER CHAMBERS AND WILL ACCOMMODATE APPROXIMATELY 8,000 CUBIC FEET OF STORAGE.

EXISTING DRAINAGE CONDITIONS				DEVELOPED DRAINAGE CONDITIONS			
	TREATMENT	VOL 300 (CFS)	Q 100 (CFS)	TREATMENT	VOL 300 (CFS)	Q 100 (CFS)	
DRAINAGE AREA 1	0.42 ACRES B 0.79 ACRES D	0.19	5.06	0.38 ACRES B 0.82 ACRES D	0.19	5.10	
DRAINAGE AREA 2	0.26 ACRES B 0.48 ACRES D	0.11	3.09	0.21 ACRES B 0.53 ACRES D	0.12	3.21	
DRAINAGE AREA 3	0.33 ACRES C	0.04	1.14	0.33 ACRES D	0.06	1.66	
TOTAL	2.28 ACRES		9.29	2.27 ACRES		9.97	

POND SIZING CALCULATION

TIME OF CONCENTRATION	t _c	0.200 hr	720 sec
BASE TIME	t _B	0.764 hr	2750.4 sec
TIME TO PEAK	t _P	0.238 hr	856.8 sec
DURATION OF PEAK	DURATION _P	0.180 hr	648 sec
PUMP FLOW RATE (OUTPUT)	Q _{out}	0.2 cf/sec	
PEAK DEVELOPED FLOW RATE	Q _T	4.87 cf/sec	BASIN 2 & 3 TOTAL
REQUIRED STORAGE VOLUME*	V _{storage}	8,000 cf	

$$* V_{storage} = [t_p \times 0.5 + \text{DURATION}_P + (t_B - t_P - \text{DURATION}_P) \times 0.5] \times (Q_T - Q_{out})$$

CLIENT

ALBUQUERQUE PUBLIC SCHOOLS

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ALBUQUERQUE, NEW MEXICO 87106
PHONE: 505-848-8810

DESIGNER

DMJM H&N | AECOM

201 THIRD STREET NW, SUITE 600 ALBUQUERQUE, NM 87102
T: 505-889-4100 F: 505-884-7231 www.dmjmh.com

CONSULTANTS

REGISTRATION



ISSUE

MARK	DATE	DESCRIPTION
1	11/04/09	INCORPORATED COMMENTS FROM COA DRAINAGE REVIEW
0	10/06/09	ISSUED FOR CONSTRUCTION

PROJECT NO:

60040205

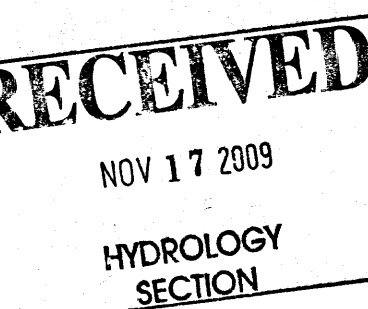
DRAWN BY:

J.L. MOORE

CHECKED BY:

M. TARIN

KEY PLAN



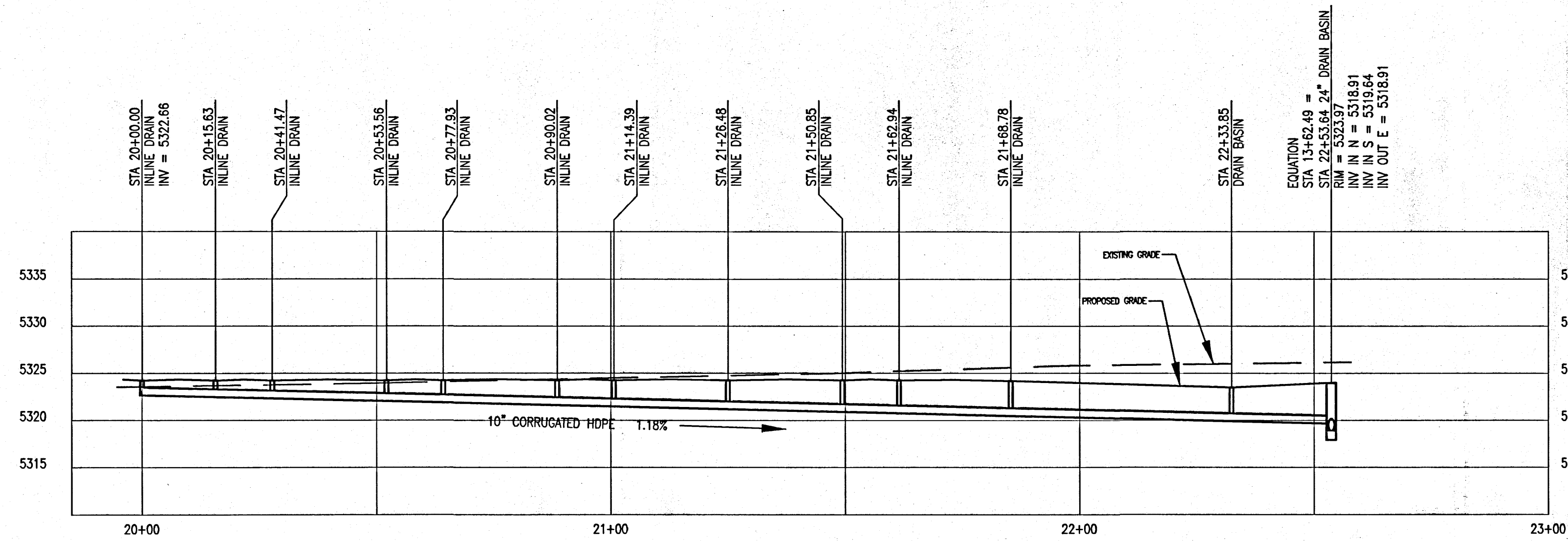
SHEET TITLE

EMERSON KINDERGARTEN & FINE ARTS ADDITION
OVERALL GRADING AND DRAINAGE PLAN

C108

DWG: P:_DESIGN\AP\60040205 EMERSON KINDERGARTEN\500 CAD\502 CAD Directory\C\Sheet\C501.dwg User: moorej
DATE: Nov 17, 2009 - 12:47:12 pm Images:
Xrefs: "KEES-CBOR" "xSurveyELD0" "xldg site" "xSurvey" "xSurvey"

D

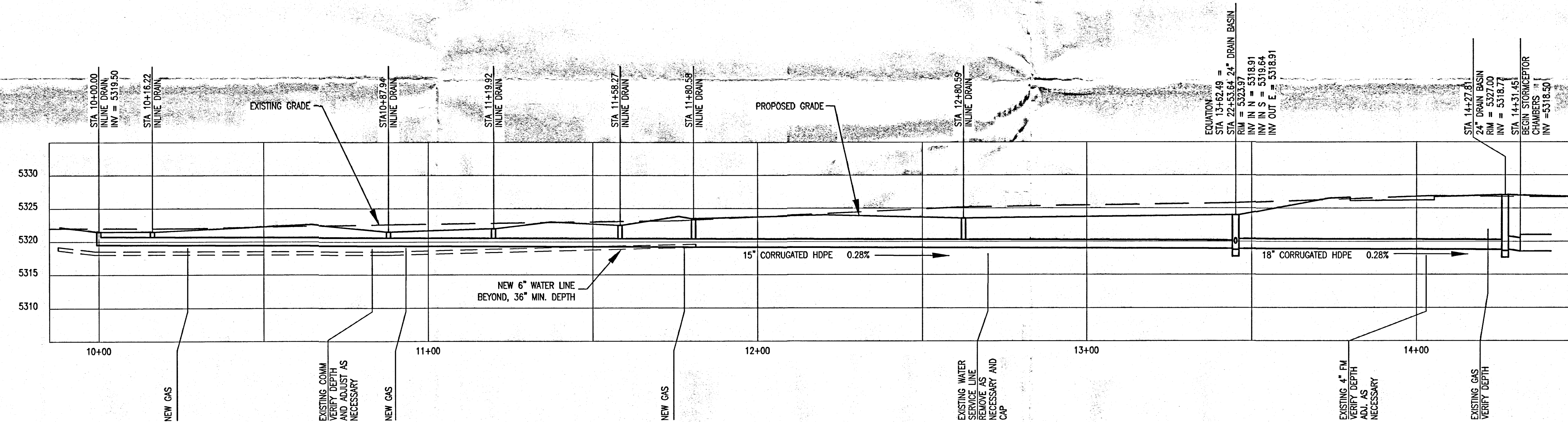


C

A3 | STORM DRAIN PROFILE

C501 REF. C106 SCALE: HORIZ. 1" = 20'-0", VERT. 1" = 10'-0"

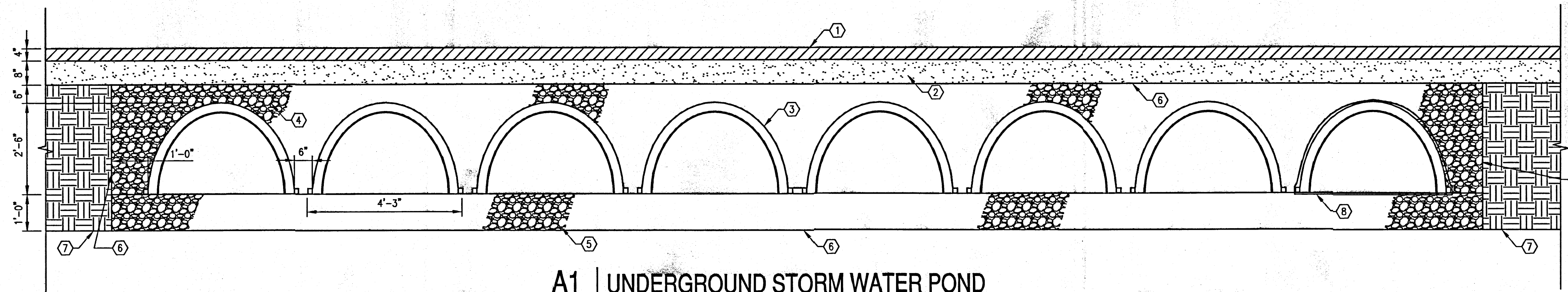
B



A2 | STORM DRAIN PROFILE

C501 REF. C106 SCALE: HORIZ. 1" = 20'-0", VERT. 1" = 10'-0"

A



A1 | UNDERGROUND STORM WATER POND

C501 REF. C106 SCALE: 1/2" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET C001 FOR GENERAL NOTES.

KEYED NOTES

- 4" ASPHALT PAVING 8"
- BASE COURSE
- 30" STORM CHAMBER TYP
- 3/4" TO 2" WASHED ANGULAR EMBEDMENT STONE
- 3/4" TO 2" WASHED ANGULAR FOUNDATION STONE
- GEOTEXTILE FABRIC ALL AROUND ANGULAR STONE
- EXISTING GROUND
- WATER QUALITY ISOLATION ROW WITH GEOTEXTILE FABRIC WRAP

CLIENT

ALBUQUERQUE PUBLIC SCHOOLS

915 OAK STREET S.E.
ALBUQUERQUE, NEW MEXICO 87106
PHONE: 505-848-8810

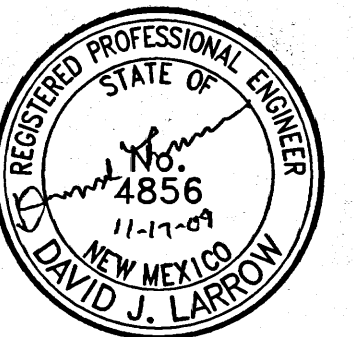
DESIGNER

DMJM H&N | AECOM

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CONSULTANTS

REGISTRATION

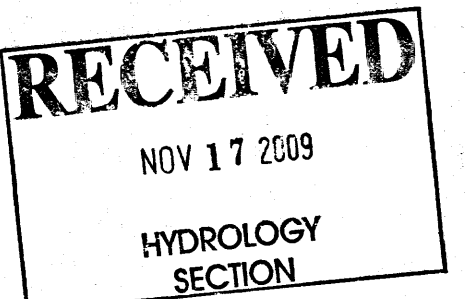


ISSUE

MARK	DATE	DESCRIPTION
0	10/06/09	ISSUED FOR CONSTRUCTION

PROJECT NO: 60040205
DRAWN BY: A. GALLEGOS
CHECKED BY: P. LOVATO

KEY PLAN

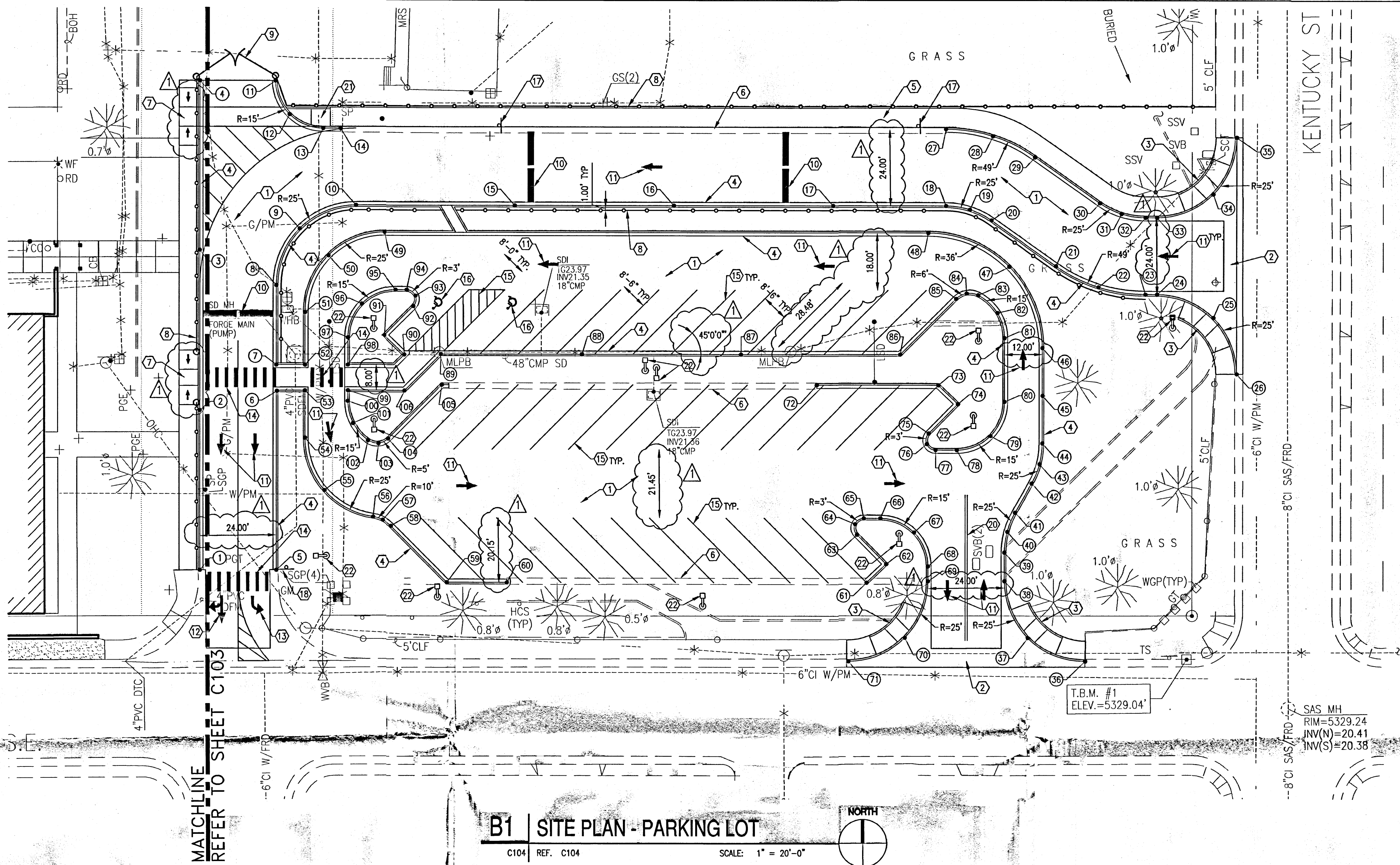


SHEET TITLE

EMERSON KINDERGARTEN
& FINE ARTS ADDITION

DETAILS

C501



GENERAL NOTES

- ALL POINT COORDINATES AND RADII ARE AT CURB AND GUTTER FLOWLINE.
- ALL PARKING LOT CURB AND GUTTER IS PER COA DWG. 2415B.
- TRUNCATED DOMES SHALL BE INSTALLED AT ALL NEW ADA ACCESSIBLE RAMPS ALONG KENTUCKY STREET AND SOUTHERN AVENUE.

KEYED NOTES

- 4" MIN. PLANT MIX BITUMINOUS PAVEMENT (ASPHALT PAVEMENT), 8" MIN. AGGREGATE BASE COURSE, 6" MIN. SUBGRADE PREP. AT 95% MODIFIED PROCTOR.
- CONCRETE VALLEY GUTTER PER COA DWG. 2420 AND DRIVE PAD PER COA DWG. 2426.
- WHEELCHAIR CURB ACCESS RAMP PER COA DWG. 2441.
- MEDIAN CURB AND GUTTER PER COA DWG. 2415B.
- 6' WIDE SIDEWALK PER COA STD. DWG. 2430.
- EXISTING CURB AND GUTTER TO REMAIN.
- 5' WIDE WHEELCHAIR CURB ACCESS RAMP. 12:1 MAX. SLOPE. ALL DIRECTIONS.
- 4' HIGH CHAIN LINK FENCE.
- 4' HIGH DOUBLE CHAIN LINK GATES.
- 2' WIDE x 3" HIGH ASPHALT SPEED BUMP PAINTED YELLOW.
- PAINTED WHITE THROUGH ARROW.
- PAINTED WHITE THRU/RIGHT ARROW.
- PAINTED WHITE LEFT ARROW.
- 8' WIDE PAINTED WHITE CROSSWALK. 1' WIDE STRIPES AT 3' O.C.
- 4" PAINTED WHITE STRIPE.
- PAINTED WHITE HANDICAP PARKING.
- TRAFFIC SIGN "STUDENT PICK-UP/DROP-OFF, PLEASE PULL FORWARD".
- TRAFFIC SIGN "EXIT ONLY".
- NOT USED.
- 4" PAINTED DOUBLE YELLOW STRIPE.
- WHEELCHAIR ACCESS RAMP W/ HEADER CURB. 12:1 MAX SLOPE.
- SOLAR POWERED STREET LIGHT, SEE DETAIL SHEET C502.

ALL WHEELCHAIR RAMPS LOCATED WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE TRUNCATED DOMES.

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRG/Permit approval and Work Order required.

TRAFFIC CIRCULATION LAYOUT APPROVED
Signed: [Signature] Date: 02/04/10

POINT	NORTHING	EASTING	REMARK
1	5011.88	5288.65	
2	5061.76	5289.11	
3	5111.88	5289.54	
4	5164.70	5290.00	
5	5011.67	5312.65	
6	5067.67	5313.15	
7	5075.67	5313.22	
8	5100.63	5313.44	
9	5118.24	5320.92	
10	5125.41	5338.66	
11	5164.50	5313.71	
12	5153.94	5318.06	
13	5149.50	5328.58	
14	5149.45	5334.08	
15	5124.97	5388.66	
16	5124.53	5438.63	
17	5124.08	5488.65	
18	5123.77	5524.07	
19	5122.55	5531.58	
20	5119.12	5538.37	
21	5104.67	5558.63	
22	5097.96	5571.94	
23	5095.57	5586.65	
24	5095.53	5590.31	
25	5088.07	5607.91	
26	5070.34	5615.09	
27	5147.77	5524.29	
28	5138.66	5552.31	
29	5138.66	5552.31	
30	5124.21	5572.57	
31	5120.79	5579.36	
32	5119.56	5586.86	
33	5119.53	5590.50	
34	5126.69	5608.24	
35	5144.30	5615.72	
36	4981.09	5566.33	
37	4988.56	5548.69	
38	5006.31	5541.51	
39	5015.33	5541.59	
40	5021.79	5542.50	

POINT	NORTHING	EASTING	REMARK
41	5027.80	5545.05	
42	5036.93	5550.43	
43	5042.94	5552.98	
44	5049.40	5553.89	
45	5064.23	5564.23	
46	5079.06	5554.65	
47	5104.61	5543.83	
48	5115.38	5518.47	
49	5116.88	5347.62	
50	5109.72	5329.84	
51	5092.11	5322.36	
52	5075.59	5322.22	
53	5067.59	5322.15	
54	5052.88	5322.02	
55	5036.47	5327.97	
56	5027.95	5343.21	
57	5026.97	5346.24	
58	5025.08	5348.81	
59	5007.35	5366.23	
60	5007.18	5385.24	
61	5006.19	5498.23	
62	5011.99	5504.42	
63	5021.23	5495.34	
64	5024.50	5494.72	
65	5026.33	5497.51	
66	5026.29	5502.69	
67	5021.80	5513.26	
68	5011.16	5517.55	
69	5006.48	5517.51	
70	4988.88	5510.05	
71	4981.70	5492.34	
72	5068.09	5483.08	
73	5067.71	5521.27	
74	5061.80	5527.35	
75	5052.72	5518.12	
76	5049.46	5517.44	
77	5047.58	5520.19	
78	5047.52	5526.87	
79	5051.82	5537.52	
80	5062.39	5542.00	

POINT	NORTHING	EASTING	REMARK
81	5082.28	5542.18	
82	5090.20	5540.00	
83	5095.78	5533.98	
84	5096.36	5530.34	
85	5094.71	5527.05	
86	5077.32	5509.35	
87	5077.76	5459.35	
88	5078.20	5409.36	
89	5078.59	5365.01	
90	5078.52	5353.53	
91	5084.61	5347.27	
92	5093.68	5356.51	
93	5096.95	5357.19	
94	5098.82	5354.43	
95	5098.85	5350.92	
96	5094.55	5340.28	
97	5083.99	5335.79	
98	5075.47	5335.72	
99	5067.47	5335.65	
100	5064.21	5335.62	
101	5057.29	5337.24	
102	5051.90	5341.86	
103	5050.97	5345.16	
104	5052.39	5348.28	
105	5069.03	5365.22	
106	5067.31	5353.53	

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HYDROLOGY SECTION

CLIENT
ALBUQUERQUE PUBLIC SCHOOLS
915 OAK STREET S.E.
ALBUQUERQUE, NEW MEXICO 87106
PHONE: 505-848-8810

DESIGNER
DMJM H&N | AECOM
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T: 505-889-4100 F: 505-884-7231 www.dmjmh.com

CONSULTANTS

REGISTRATION

ISSUE

MARK	DATE	DESCRIPTION
1	02/04/10	PLAN CHECK REVISIONS
0	10/06/09	ISSUED FOR CONSTRUCTION

PROJECT NO: 60040205
DRAWN BY: A. GALLEGOS
CHECKED BY: P. LOVATO

KEY PLAN

SHEET TITLE
**EMERSON KINDERGARDEN
& FINE ARTS ADDITION
SITE PLAN
PARKING LOT**

C104

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GENERAL NOTES

A. COORDINATE WITH APS GROUNDSKEEPER FOR SPRINKLER VALVE AND TIMER RELOCATIONS.

KEYED NOTES

1. REMOVE CHAINLINK FENCE AND GATE.
2. CURB AND GUTTER TO REMAIN.
3. STORM DRAIN DROP INLET TO REMAIN.
4. REMOVE METAL LIGHT POLE AND CONCRETE BASE.
5. ELECTRIC PULL BOX TO REMAIN.
6. STORM DRAIN MANHOLE TO REMAIN.
7. REMOVE TREE.
8. REMOVE EXISTING HANDICAP SIGNS.
9. RELOCATE SPRINKLER VALVES.
10. WATERLINE HOTBOX TO REMAIN.
11. ACCESS DRIVE CONCRETE AND WHEELCHAIR ACCESS RAMPS TO REMAIN.
12. TREE TO REMAIN.
13. RELOCATE SPRINKLER CONTROL TIMER IF REQUIRED.
14. REMOVE PLAYGROUND EQUIPMENT AND CANOPY STRUCTURE.

CLIENT

ALBUQUERQUE PUBLIC SCHOOLS

915 OAK STREET S.E.
ALBUQUERQUE, NEW MEXICO 87106
PHONE: 505-848-8810

DESIGNER

DMJM H&N | AECOM

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T: 505-889-4100 F: 505-884-7231 www.dmjmh.com

CONSULTANTS

REGISTRATION

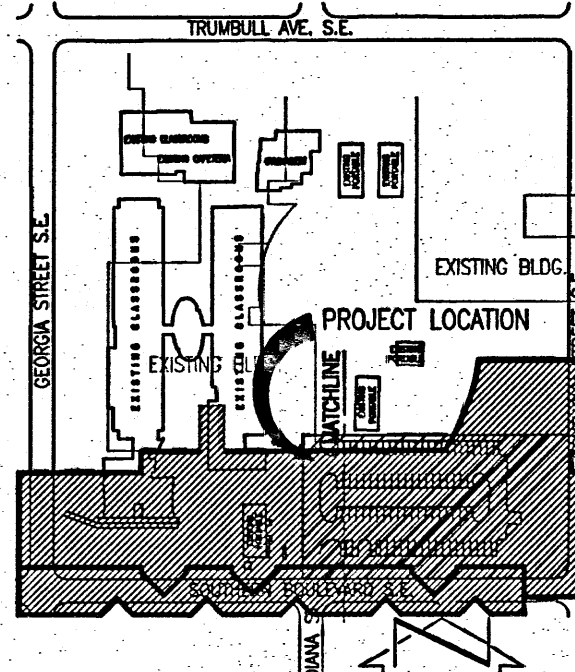


ISSUE

MARK	DATE	DESCRIPTION
0	10/06/09	ISSUED FOR CONSTRUCTION

PROJECT NO: 60040205
DRAWN BY: A. GALLEGOS
CHECKED BY: P. LOVATO

KEY PLAN



SHEET TITLE

EMERSON KINDERGARDEN
& FINE ARTS ADDITION
DEMOLITION PLAN
PARKING LOT

C102

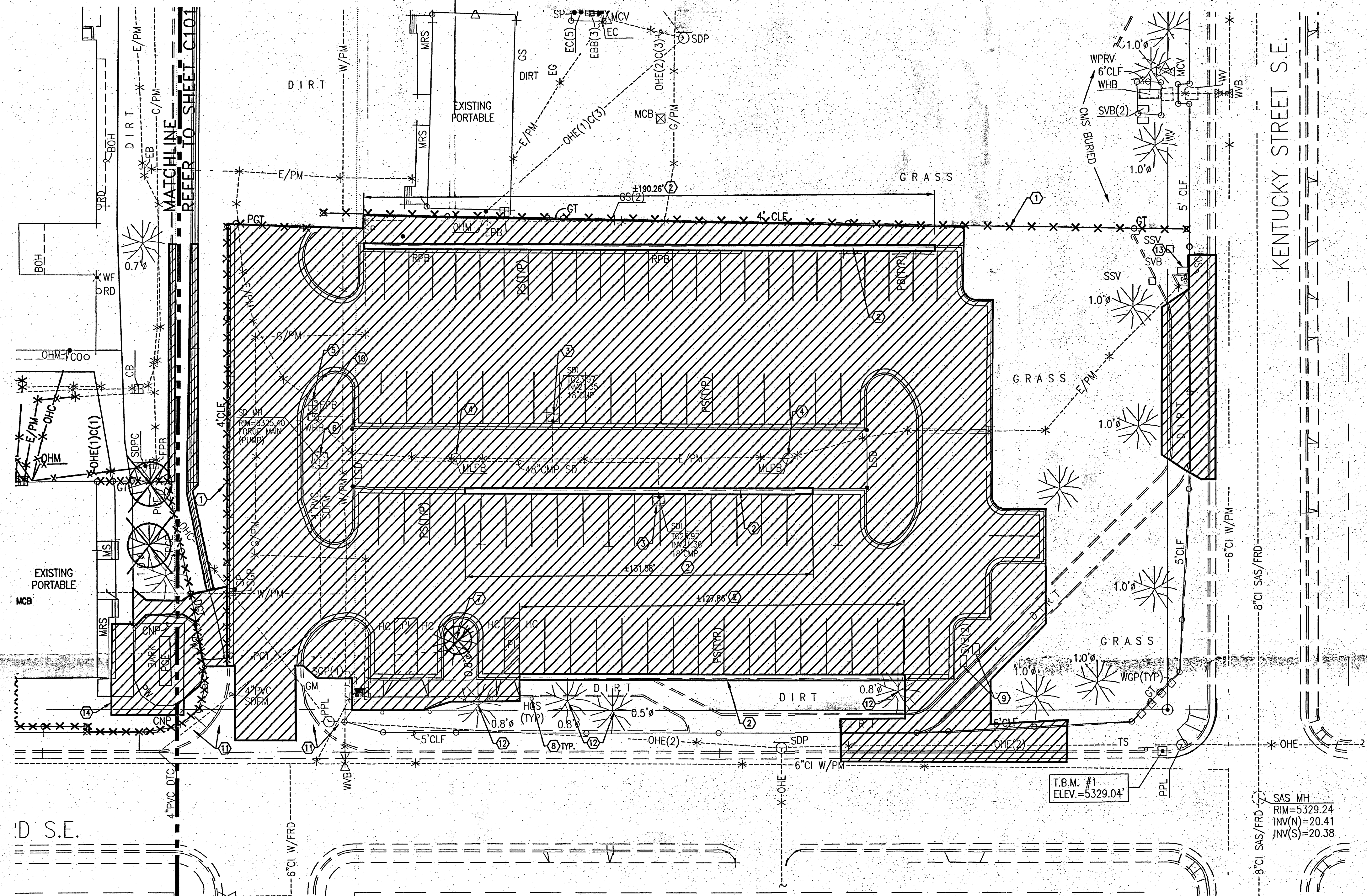
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HYDROLOGY
SECTION



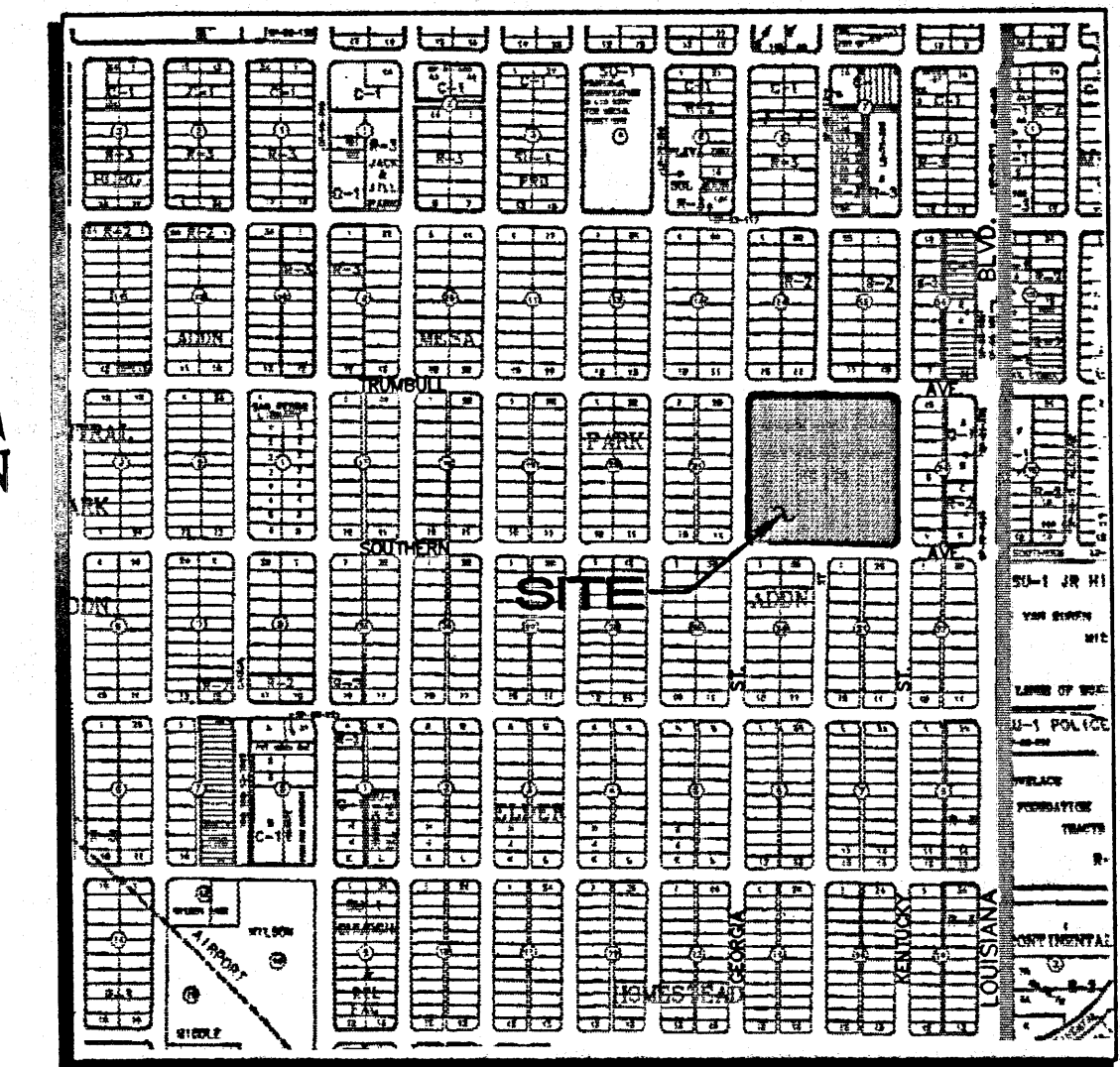
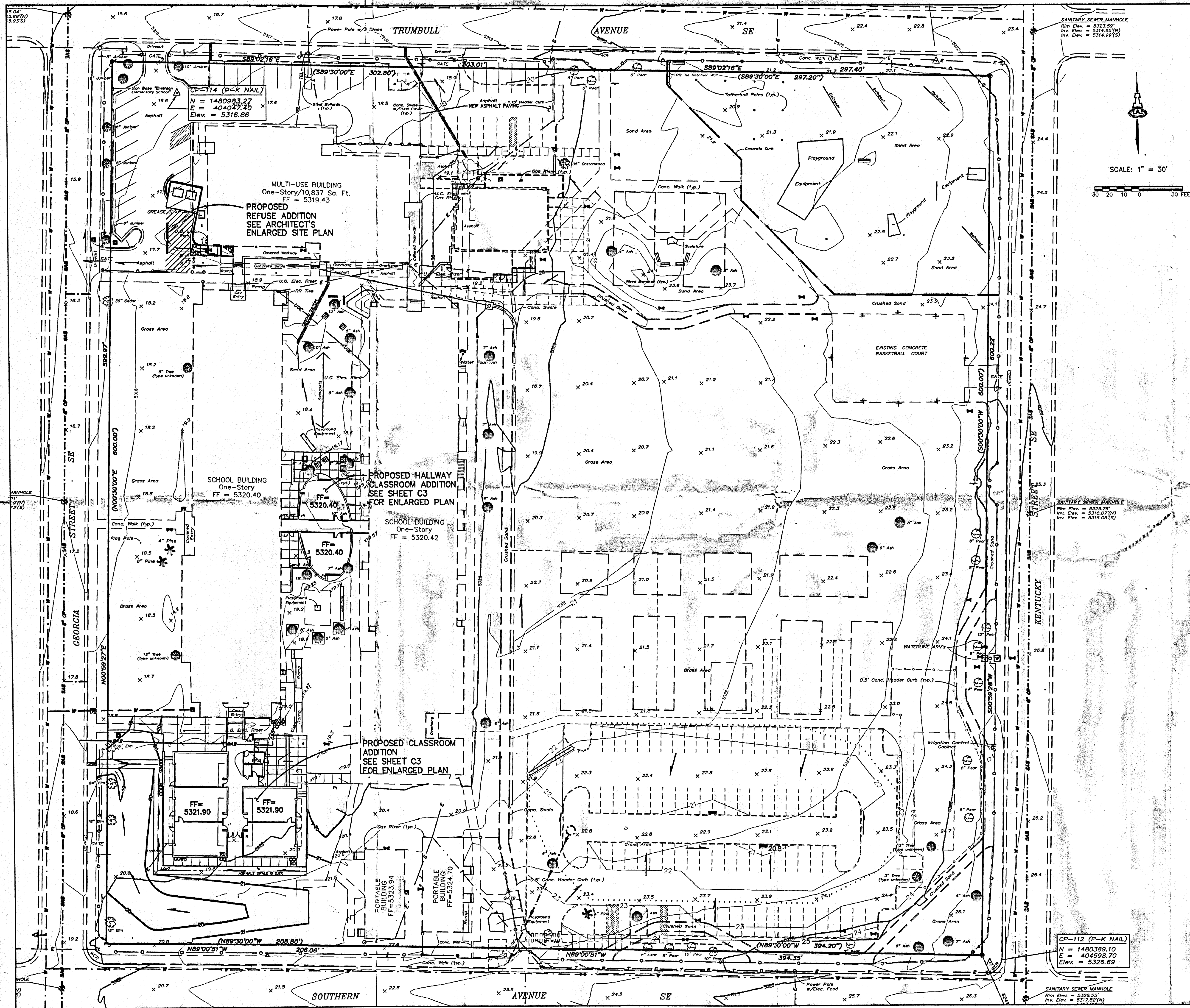
B1 | DEMOLITION PLAN - PARKING LOT

C102 REF. C102

SCALE: 1" = 20'-0"



DWG: P:\DESIGN\APS\60040205 EMERSON KINDER\500 CAD\502 CAD\Directory\Sheet\C102.dwg User: moorej
DATE: Sep 30, 2009 - 3:37:56 pm Images:
Xrefs: "VF-102" "Sline" "parking" "CEG-GBDR"



VICINITY MAP

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- x 22.3 EXISTING SPOT ELEV.
- ◆ 19.1 PROPOSED SPOT ELEV.
- FLOW ARROW
- TC 19.0 TOP OF CURB ELEV.
- FL 18.5 FLOW LINE ELEV.
- RD ROOF DRAIN
- SIDEWALK CULVERT

GENERAL INFORMATION

LEGAL DESCRIPTION: EMERSON ELEMENTARY SCHOOL

ADDRESS: 620 GEORGIA SE.

SITE AREA: 360,300 SF = 8.27 ACRES

PRECIPITATION ZONE: 3

SURVEYOR: WILSON & COMPANY, DATED MAY 1998

BENCHMARK(S): ACS BRASS CAP "7-L18" LOCATED IN THE SOUTHWEST CORNER OF LOUISIANA BLVD. & KATHRYN AVE. SE. ELEVATION = 5335.04

TEMPORARY BENCHMARK: P-K NAIL SHOWN AT SOUTHEAST CORNER OF SITE. ELEVATION = 5326.69

SITE SOIL: AS SHOWN ON SHEET #31 OF THE SCS SOIL SURVEY OF BERNALILLO COUNTY, SOIL IS CLASSIFIED AS TIERAS GRAVELLY FINE SANDY LOAM (HYDROLOGIC GROUP "B" SOIL).

FLOOD HAZARD STATEMENT: FEMA PANEL 354 INDICATES THIS SITE IS WITHIN 100-YEAR FLOOD ZONE AO (DEPTH 1 FOOT).

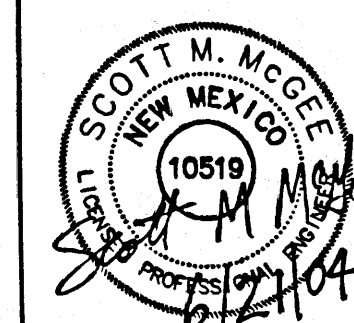
PROPOSED HYDROLOGY: THERE IS A MASTER DRAINAGE REPORT FOR EMERSON ELEMENTARY SCHOOL DATED JUNE 1999, PREPARED BY ISAACSON & ARFMAN, P.A., FILED AT THE CITY OF ALBUQUERQUE IN DRAINAGE FILE #18/D26. THIS REPORT SHOWS THAT SINCE PHASE I OF THIS PROJECT REDUCED THE SITE'S OVERALL DISCHARGE, FUTURE IMPROVEMENTS SHALL BE ALLOWED FREE DISCHARGE.

THE SOUTH BUILDING ADDITION WILL DISCHARGE TO THE SOUTH WHERE AN ASPHALT SWALE WILL CONVEY THE FLOWS TO A PROPOSED SIDEWALK CULVERT IN GEORGIA AVENUE.

THE HALLWAY CLASSROOM ADDITION WILL DISCHARGE TO THE NORTH WHERE THE FLOWS WILL BE CONVEYED TO AN EXISTING ASPHALT SWALE THROUGH AN EXISTING CULVERT AND BE DISCHARGED VIA A DRIVEPAD TO GEORGIA AVENUE.

EMERSON ELEMENTARY SCHOOL

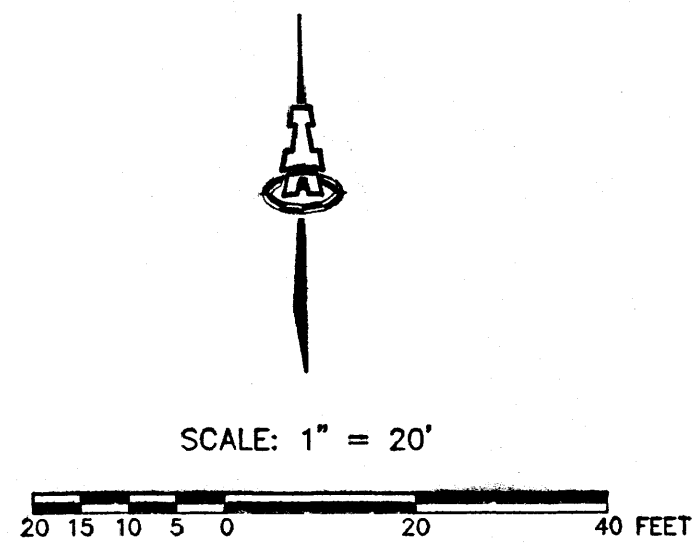
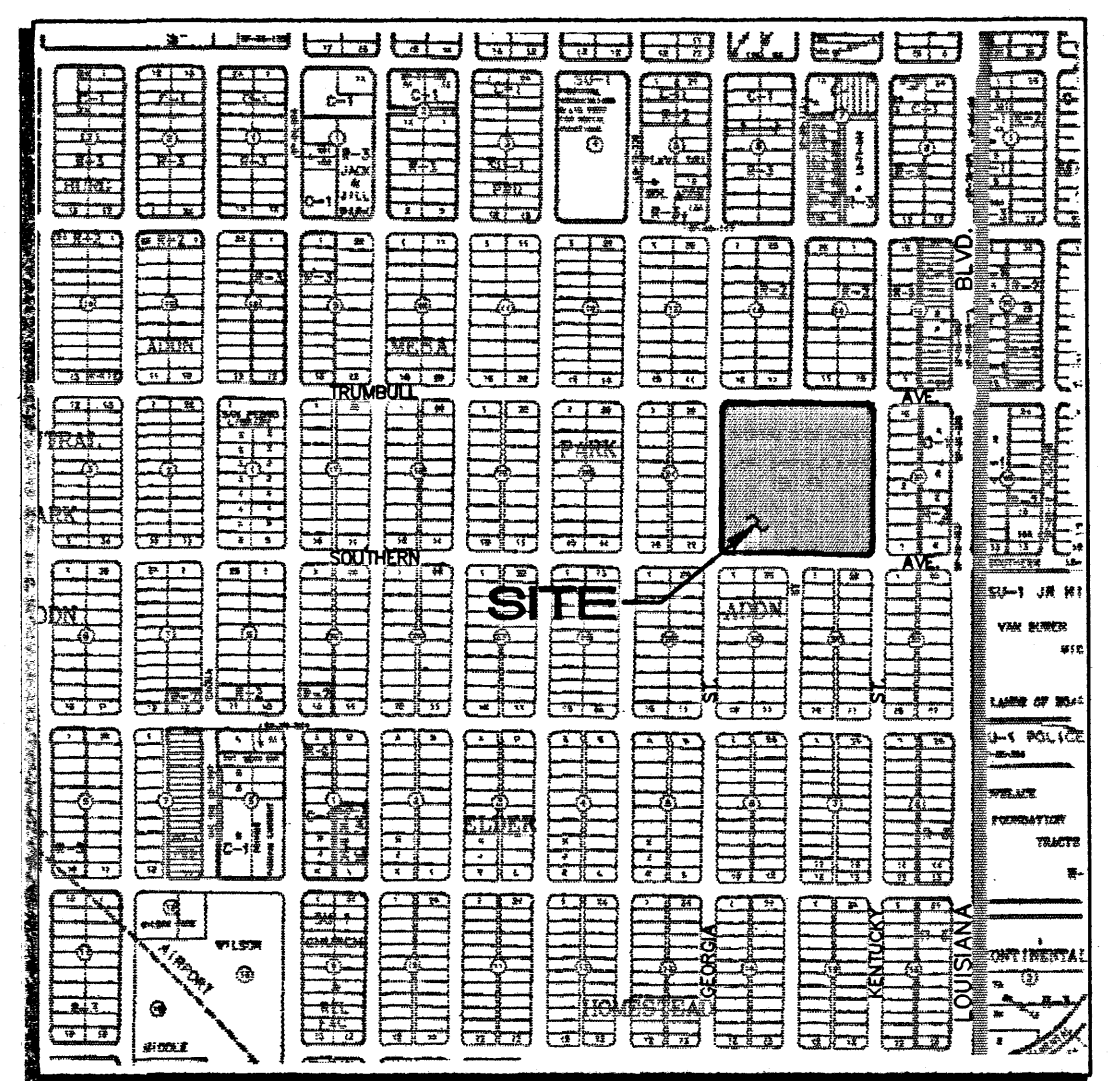
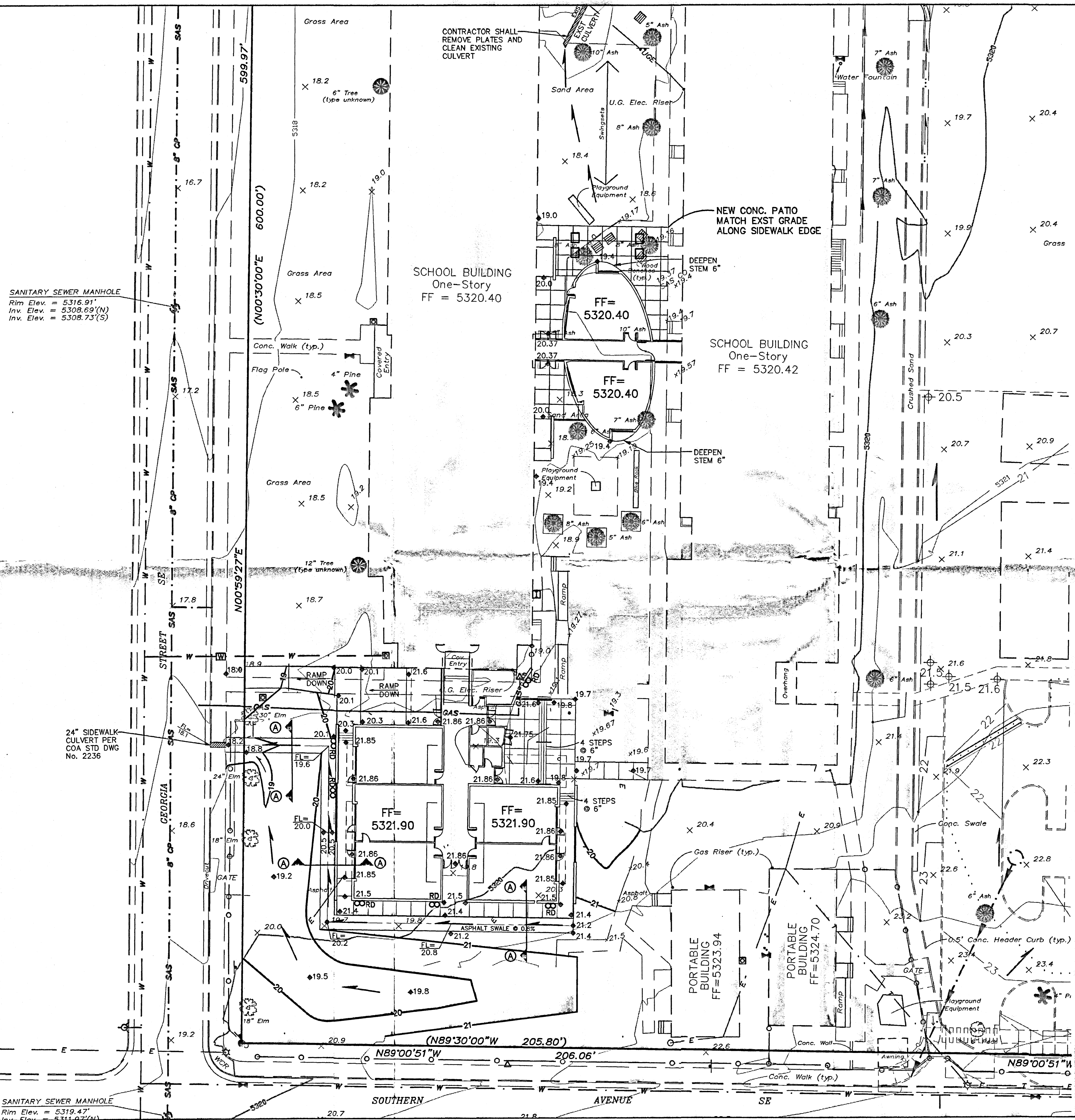
OVERALL GRADING PLAN



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico

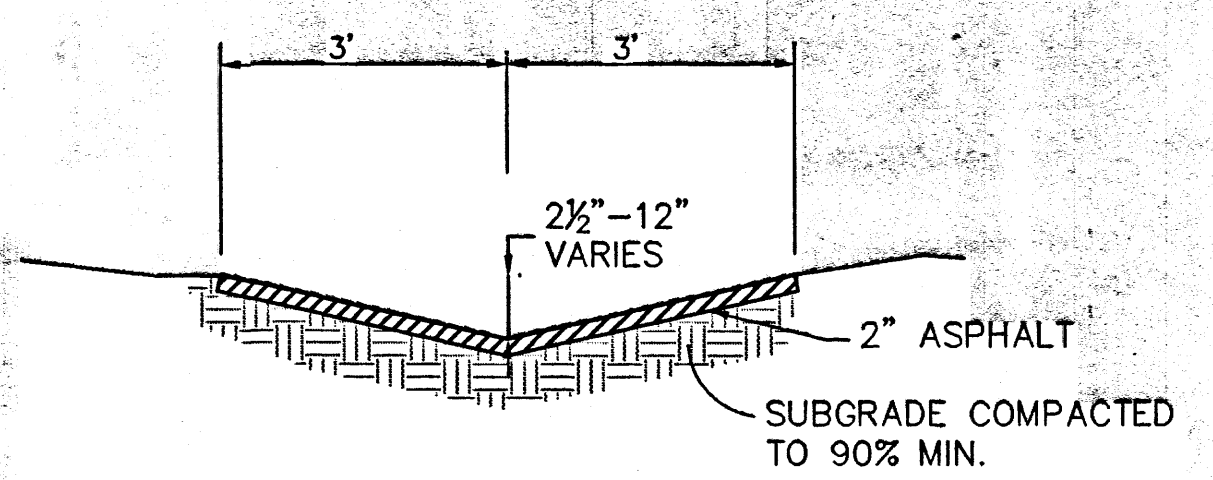
1291 GRD.DWGthor April 23, 2004

SHEET C2



- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING SPOT ELEV.
 - PROPOSED SPOT ELEV.
 - FLOW ARROW
 - TOP OF CURB ELEV.
 - FLOW LINE ELEV.
 - ROOF DRAIN
 - SIDEWALK CULVERT

- PUBLIC R.O.W. CONSTRUCTION NOTES**
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION 1988."
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING LINES.
 - 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 SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE (RESIDENTIAL).
 - MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 - 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.



APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
A.C.E./FIELD		
PERMIT NO.	MAP NO.	
	L-18	

EMERSON ELEMENTARY SCHOOL

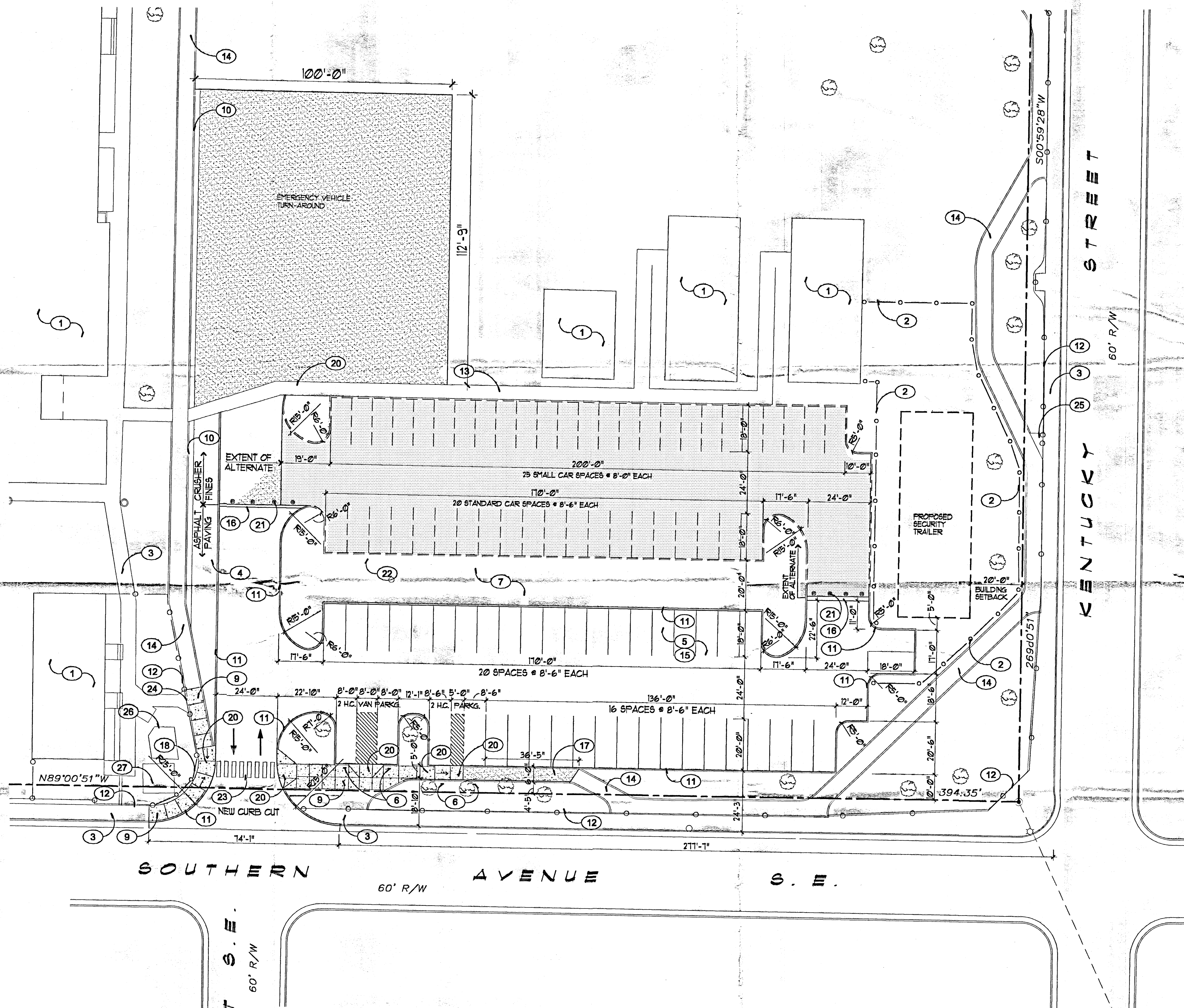
ENLARGED GRADING PLAN

1291 GRD.DWGthor April 23, 2004

SHEET C3

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

SCOTT M. MCGEE
NEW MEXICO
10519
6/21/04



- KEYED NOTES**
- Existing building.
 - New 5'-0" chain link fence, see B-1/CI-201.
 - Existing concrete sidewalk.
 - Existing vegetation.
 - New asphalt parking lot with a minimum thickness of 3 inches over 6" aggregate base course material, see D-3/CI-201.
 - New H.C. parking sign, typical of 4.
 - Detention pond, see Civil.
 - New park boundary.
 - New concrete sidewalk.
 - Existing header curb and gutter.
 - New curb and gutter, see Detail D-2/CI-201.
 - Existing chain link fence.
 - Existing asphalt sidewalk.
 - Existing pathway with crusher fines.
 - Construct 2" asphalt slope paving per typical section.
 - 1'-0" wide concrete asphalt edge. See B-4/CI-201.
 - New pathway with crusher fines to match existing.
 - New chainlink fence. Height to match existing. See B-1/CI-201.
 - New landscape.
 - New H.C. concrete ramp as per city standard #2418.
 - Removable bollards, see B-3/CI-201.
 - New 3'-0" chainlink fence, see B-1/CI-201.
 - Asphalt striping, see A1/CI-201.
 - Existing chain link gate.
 - Existing irrigation control cabinet.
 - Existing play equipment.
 - Relocated awning.

ENLARGED SITE PLAN

SCALE: 1" = 20'-0"

LEGEND

- | | | | | | | | |
|--|------------------------|--|---------------|--|-------------------------|--|----------------|
| | NEW CONCRETE, SIDEWALK | | CRUSHER FINES | | EXISTING TREE TO REMAIN | | ASPHALT PAVING |
|--|------------------------|--|---------------|--|-------------------------|--|----------------|

ARCHITECT

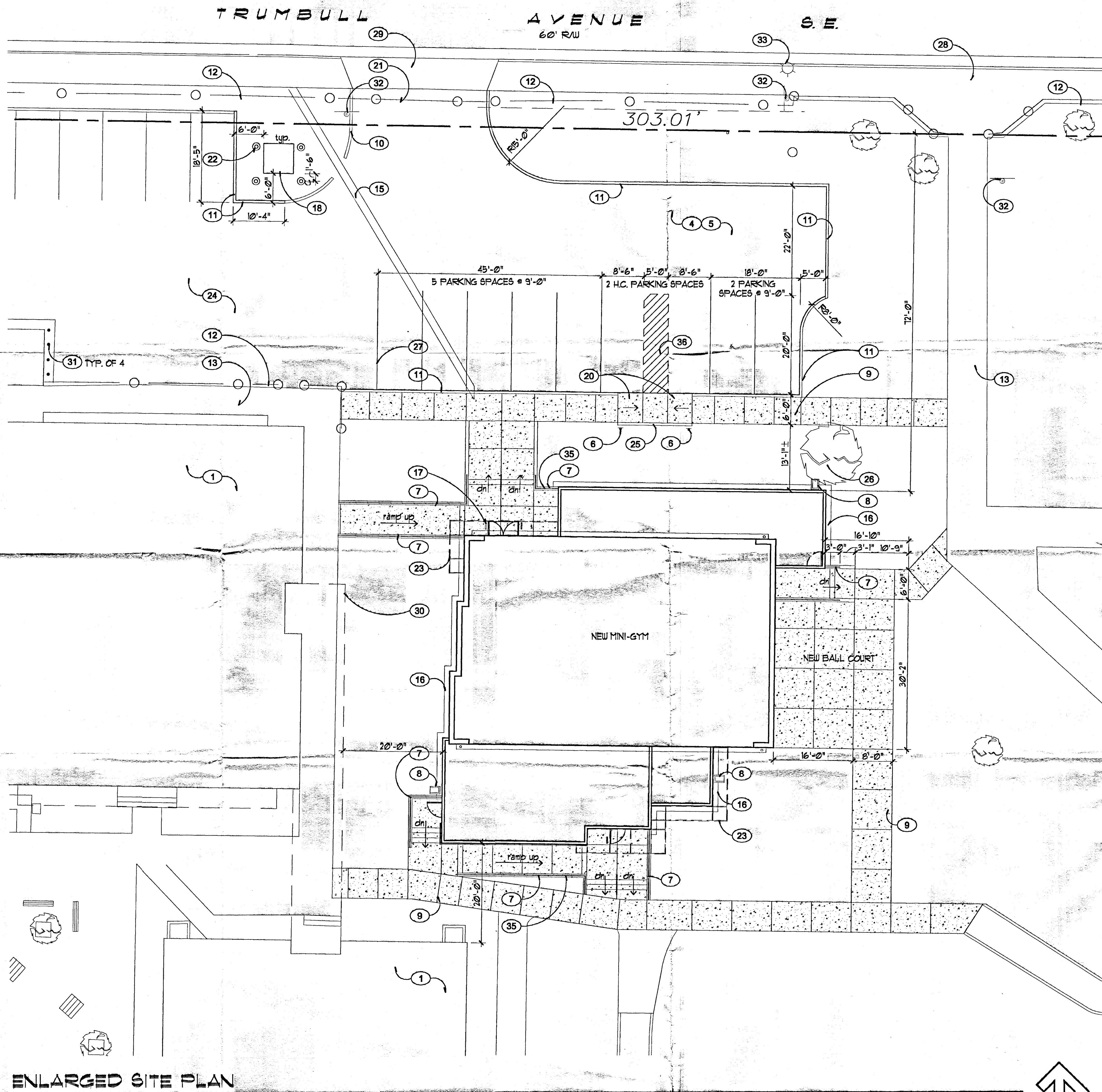
ENGINEER

MINI-GYM BUILDING
EMERSON ELEMENTARY SCHOOL
 620 GEORGIA SE, ALBUQUERQUE, NEW MEXICO
EDITH CHERRY / D. JAMES SEE ARCHITECTS
 220 A GOLD AVE. SW. ALBUQUERQUE, NEW MEXICO, 87102 505 842 1278

TITLE OF SHEET
**ENLARGED
 SITE PLAN**

DATE
 2/3/00
 REVISIONS

SHEET NUMBER
CI-103
 OF



KEYED NOTES

- Existing permanent building.
- New 5'-0" chain link fence.
- New stand up curb, see D-1/CI-201.
- Existing asphalt to remain.
- New asphalt parking lot.
- New H.C. parking sign. See C-6/CI-201.
- New H.C. ramp railing, see sheet CI-202, CI-203, CI-204.
- Concrete splash block below roof drains. See C-2/CI-201.
- New concrete sidewalk, see detail C-4/CI-201.
- Existing curb and gutter.
- New curb and gutter, similar to detail D-2/CI-201 without new paving.
- Existing chain link fence.
- Existing concrete sidewalk.
- Existing pathway with crusher fines.
- Existing trench drain.
- Continuous concrete mow strip @ landscaped perimeter of building. See C-3/CI-201.
- Hairpin door stop (typ. of 3). See C-5/CI-201.
- Relocated transformer. Construct as per PHM details. See Electrical.
- New landscape.
- Ramp down to asphalt @ 1:20.
- Existing chain link gate.
- New bollard, typ. of 4. See D-4/CI-201.
- Metal frame shade structure overhead.
- Not used.
- 6"x12" standing curb flush with sidewalk.
- Preserve and protect tree throughout construction. Discuss trimming the tree for construction with Architect prior to any work.
- Paint over existing stamping and provide new 4" wide striping.
- Existing H.C. ramp.
- Existing drive cut.
- Existing overhang.
- Existing bollards.
- Existing street signage.
- Existing light pole.
- New asphalt striping. See A-1/CI-201.
- New concrete curb. See D-1/CI-201.
- New asphalt striping as per City Standards.

ARCHITECT

ENGINEER

MINI-GYM BUILDING
EMERSON ELEMENTARY SCHOOL
620 GEORGIA SE, ALBUQUERQUE, NEW MEXICO
EDITH CHERRY / D. JAMES SEE ARCHITECTS
220 A GOLD AVE. SW. ALBUQUERQUE, NEW MEXICO, 87102 505 842 1278

TITLE OF SHEET
ENLARGED
SITE PLAN

DATE
2/3/00
REVISIONS

SHEET NUMBER

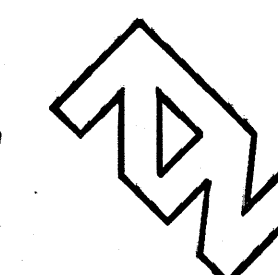
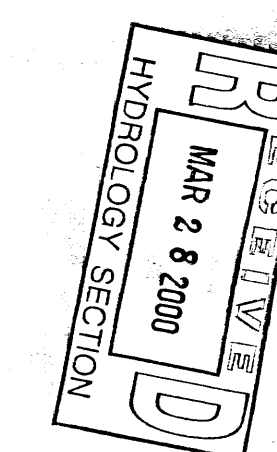
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OF

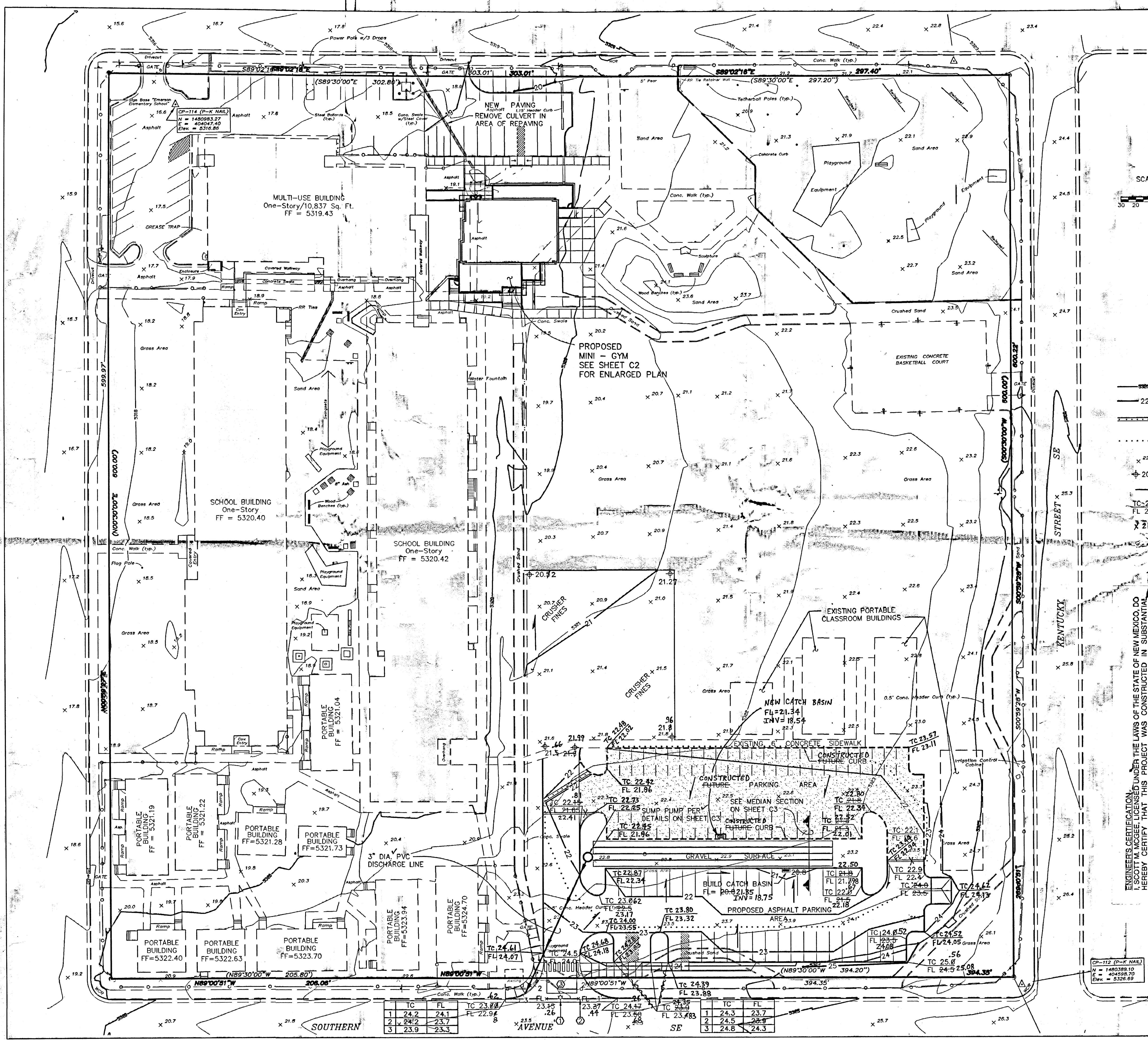
ENLARGED SITE PLAN

SCALE: 1"=10'-0"

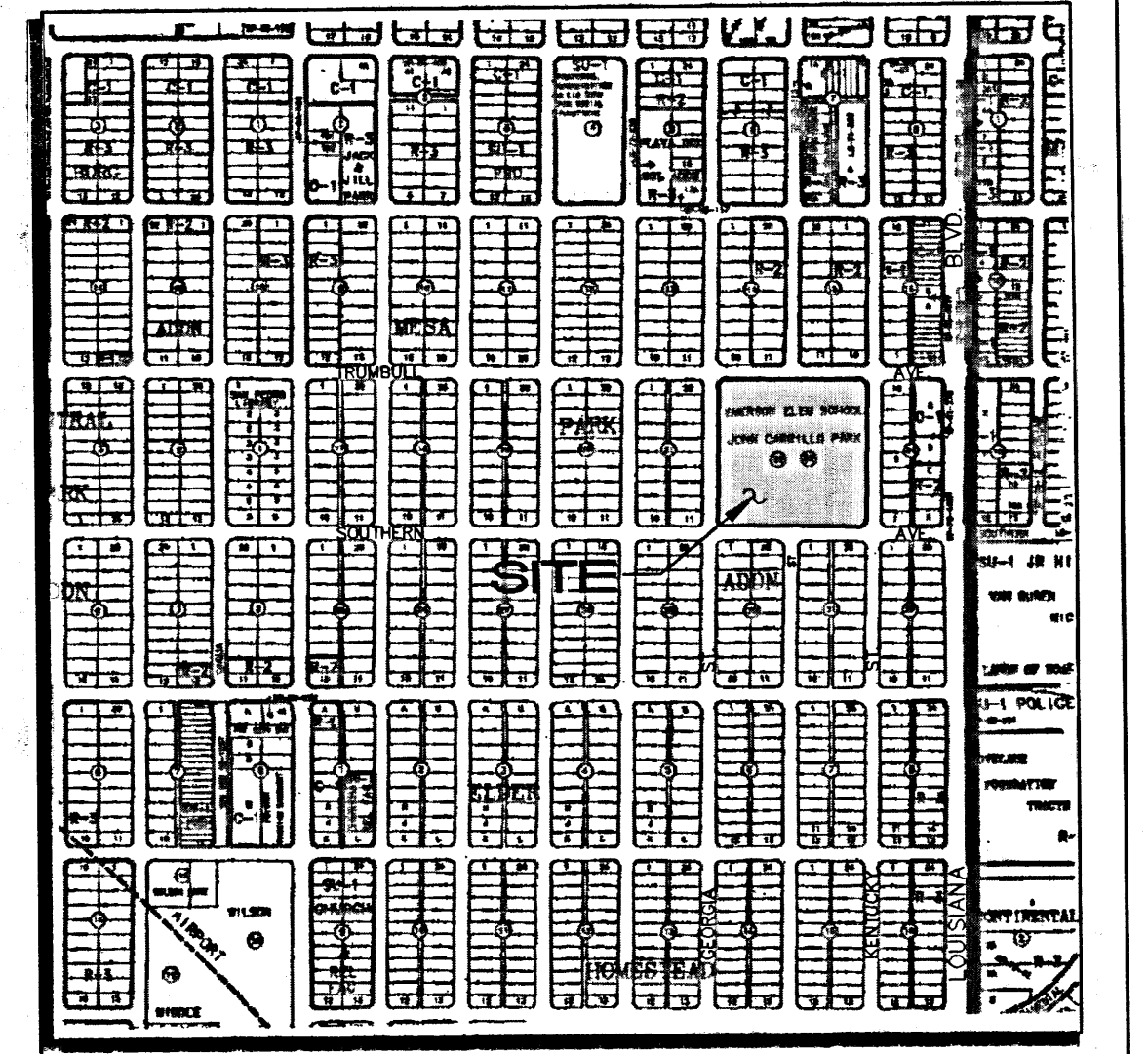
NEW CONCRETE SIDEWALK

EXISTING TREE TO REMAIN





- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - 4" HIGH WATER BAR SPEED BUMP
 - MAXIMUM WATER SURFACE LIMIT
 - EXISTING SPOT ELEV.
 - PROPOSED SPOT ELEV.
 - FLOW ARROW
 - TOP OF CURB ELEV.
 - FLOW LINE ELEV.
 - AS-BUILT ELEVATION



- PUBLIC R.O.W. CONSTRUCTION NOTES**
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION 1988."
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE, 280-1990, FOR LOCATION OF EXISTING LINES.
 - 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 SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE (RESIDENTIAL).
 - MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 - 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.

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR	SCOTT M. MCGEE	7/14/15
A.C.E./FIELD		19/20/15
PERMIT NO.		SDM
MAP NO.		
		L-18

- KEYED NOTES**
- REMOVE/RELOCATE EXISTING STREETLIGHT PER ELECTRICAL PLAN.
 - REMOVE 75 LF STANDARD CURB & GUTTER.
 - BUILD 24 FT WIDE PRIVATE DRIVEWAY ENTRANCE PER CITY OF ALBUQUERQUE STD. DWG. No. 2420 & 2426 AS SHOWN. TRANSITION FROM 8" TO 6" CURB HEIGHTS THROUGH RETURNS.

**EMERSON ELEMENTARY SCHOOL
PARKING AREA
GRADING & DRAINAGE PLAN**

SCOTT M. MCGEE
NEW MEXICO
10519

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

056GRD.DWG.dwg 02/08/00

SHEET C1 of 49

ENGINEER'S CERTIFICATION
I, SCOTT M. MCGEE, LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN DATED 02/08/00 (CITY APPROVAL LETTER DATED 04/06/00). AS-BUILT GRADES WERE FIELD VERIFIED BY WILSON & COMPANY, NMLS NO. 10855 ON 05/11/01 IN ACCORDANCE WITH THE "NEW MEXICO ENGINEERING AND SURVEYING ACT" SECTION 61-23-1 THROUGH 61-23-32 NMSD (1978).

DATE 6/21/01
SCOTT M. MCGEE, NUIPE NO. 10519

RECEIVED
JUL 12 2001
HYDROLOGY SECTION

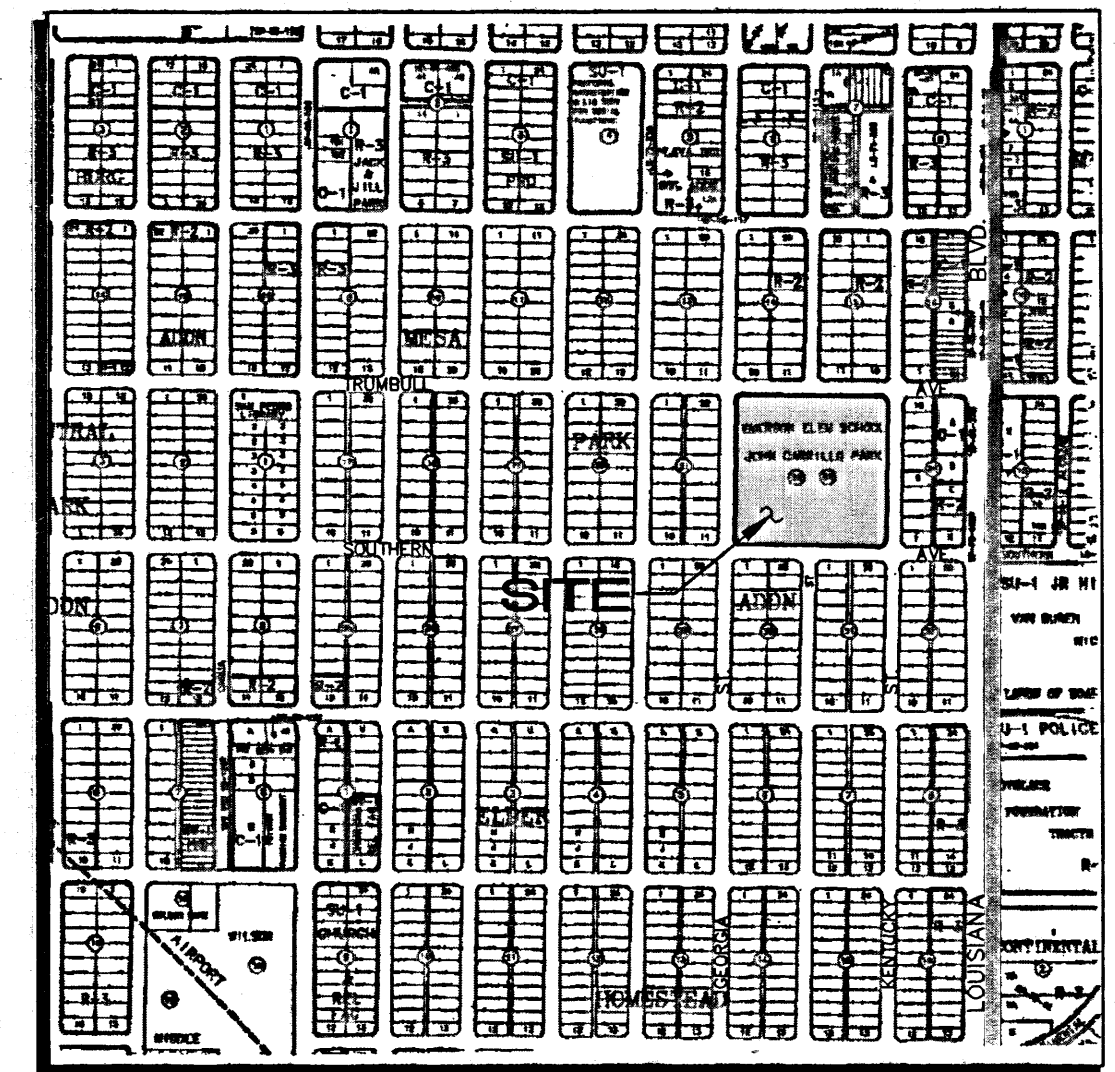
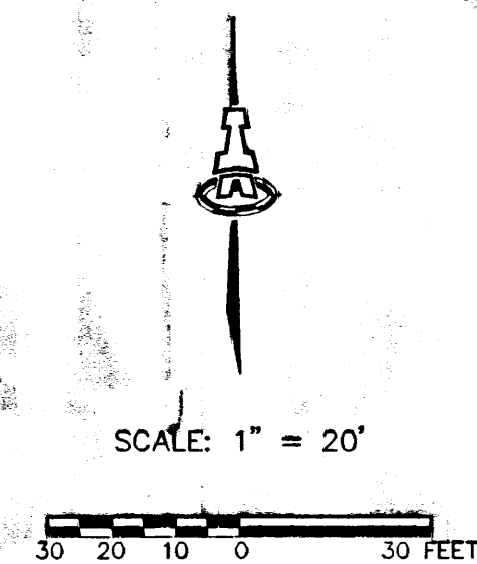
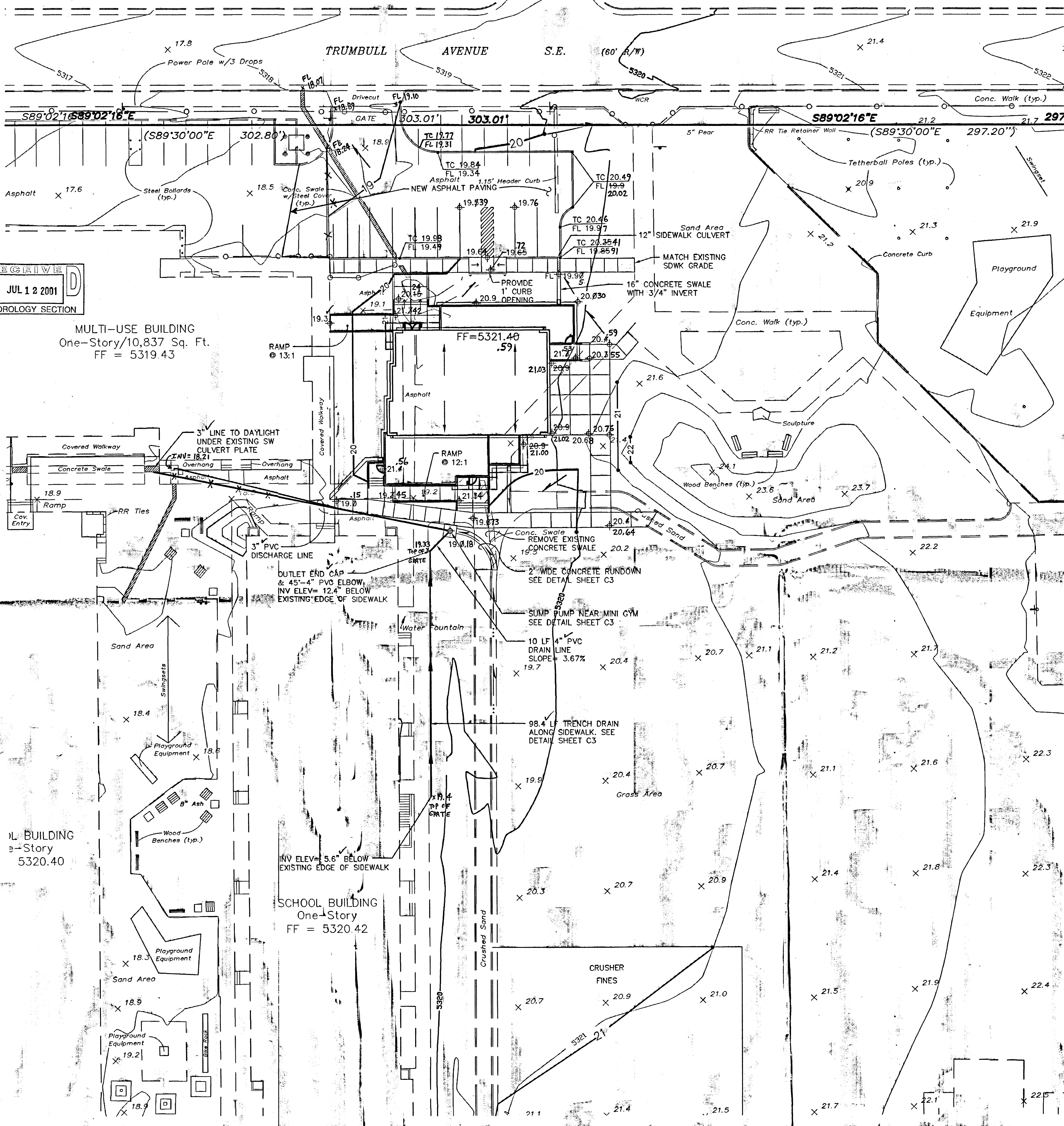
MULTI-USE BUILDING
One-Story/10,837 Sq. Ft.
FF = 5319.43

3" LINE TO DAYLIGHT
UNDER EXISTING SW
CULVERT PLATE
INV = 18.21
Overhang
Asphalt
18.9
Ramp
RR Ties
Covered Walkway
Concrete Swale
Cov. Entry
Sand Area
Swingsets
Playground
Equipment
18.6
6" Ash
Wood Benches (typ.)
18.3
Sand Area
Playground
Equipment
19.2
18.9

3-Story
5320.40

SCHOOL BUILDING
One-Story
FF = 5320.42

TRUMBULL AVENUE S.E. (60' R/W)



L-18
VICINITY MAP
1" = 750'±

LEGEND

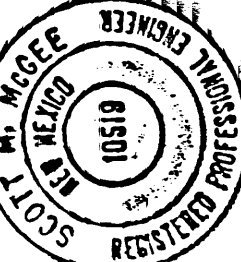
- EXISTING CONTOUR
- PROPOSED CONTOUR
- 4" HIGH WATER BAR SPEED BUMP
- MAXIMUM WATER SURFACE LIMIT
- x 22.3 EXISTING SPOT ELEV.
- + 20.7 PROPOSED SPOT ELEV.
- FLOW ARROW
- TC 25.0 TOP OF CURB ELEV.
- FL 24.5 FLOW LINE ELEV.
- RD ROOF DRAIN
- x 20.64 AS-BUILT ELEVATION

GENERAL INFORMATION

LEGAL DESCRIPTION: EMERSON ELEMENTARY SCHOOL
ADDRESS: 620 GEORGIA SE.
SITE AREA: 360,300 SF = 8.27 ACRES
PRECIPITATION ZONE: 3
SURVEYOR: WILSON & COMPANY, DATED MAY 1998
BENCHMARK(S): ACS BRASS CAP "7-L18" LOCATED IN THE SOUTHWEST CORNER OF LOUISIANA BLVD. & KATHRYN AVE. SE. ELEVATION = 5335.04
TEMPORARY BENCHMARK: P-K NAIL SHOWN AT SOUTHEAST CORNER OF SITE. ELEVATION = 5326.69
SITE SOIL: AS SHOWN ON SHEET #31 OF THE SCS SOIL SURVEY OF BERNALILLO COUNTY, SOIL IS CLASSIFIED AS TIJERAS GRAVELLY FINE SANDY LOAM (HYDROLOGIC GROUP "B" SOIL).
FLOOD HAZARD STATEMENT: FEMA PANEL 354 INDICATES THIS SITE IS WITHIN 100-YEAR FLOOD ZONE AO (DEPTH 1 FOOT).

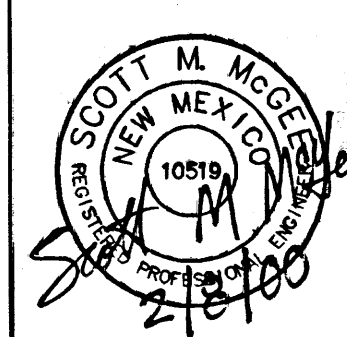
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I, SCOTT M. MCGEE, LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN DATED 02/08/00 (CITY APPROVAL LETTER DATED 04/06/00). AS-BUILT GRADES WERE FIELD VERIFIED BY WILSON & COMPANY, NMLS NO. 108655 ON 05/11/01 IN ACCORDANCE WITH THE NEW MEXICO ENGINEERING AND SURVEYING ACT, SECTION 61-23-1 THROUGH 61-23-2 NMSB (1979).

DATE 6/21/01
SCOTT M. MCGEE, N.M.P.E. NO. 10519

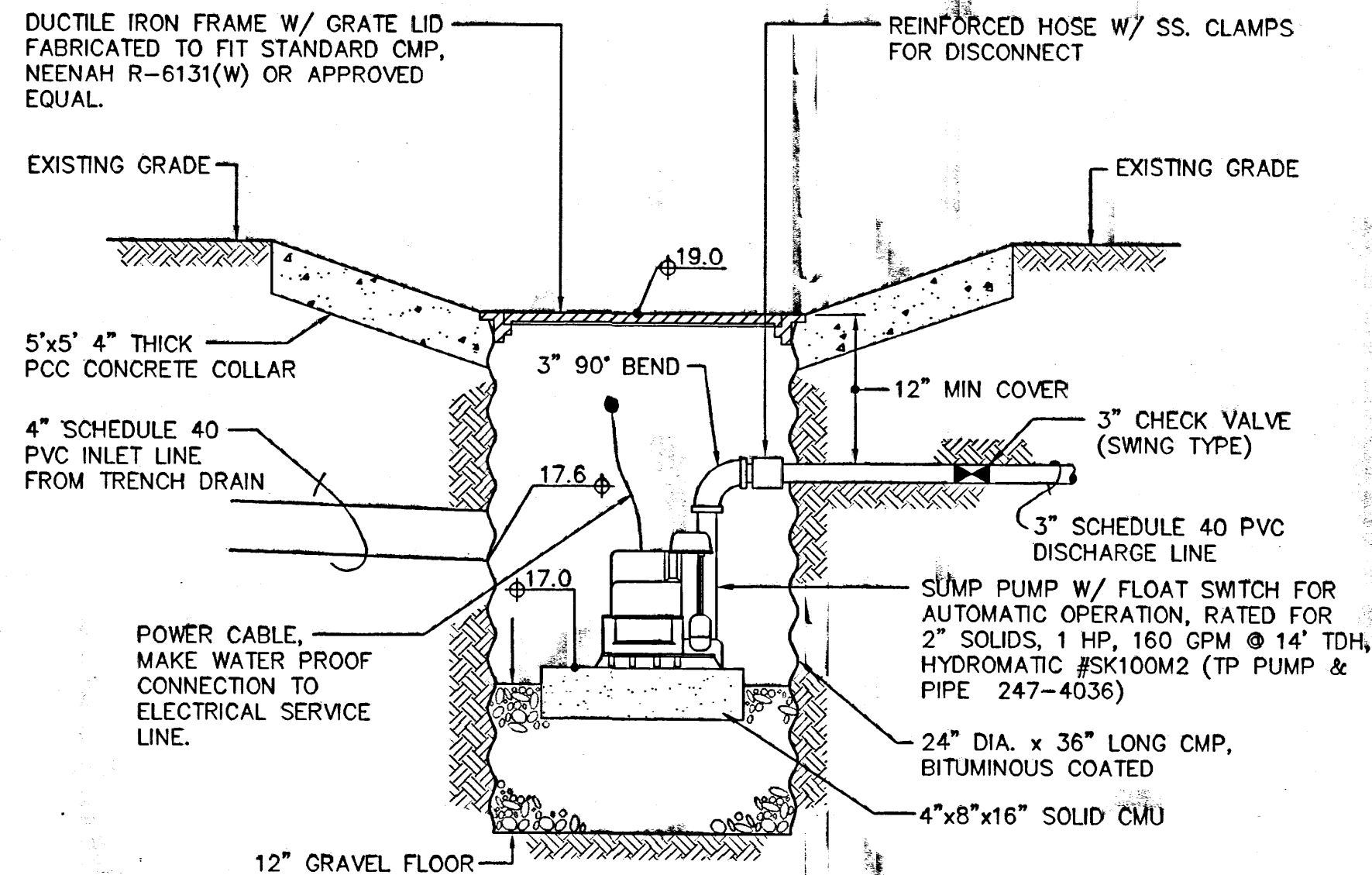


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JUL 12 2001
HYDROLOGY SECTION

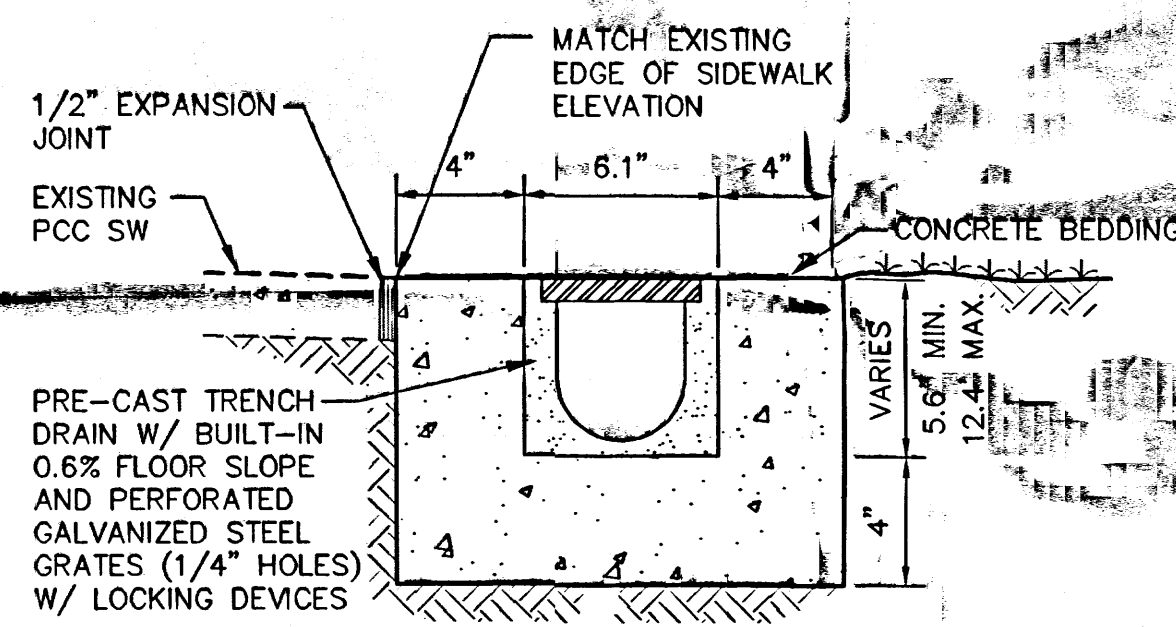
EMERSON ELEMENTARY SCHOOL MINI-GYM AREA GRADING & DRAINAGE PLAN



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
056GR02.DWGdlv 02/08/00
SHEET C2 of 49

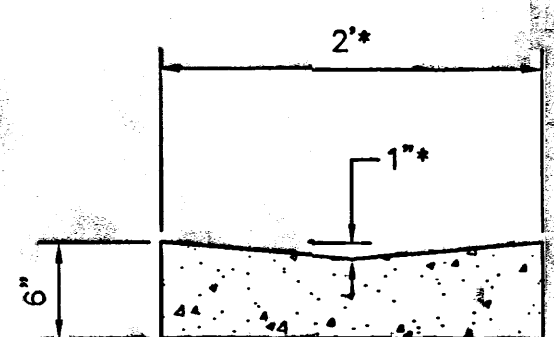


SUMP PUMP NEAR MINI GYM
SCALE: 1"=1'



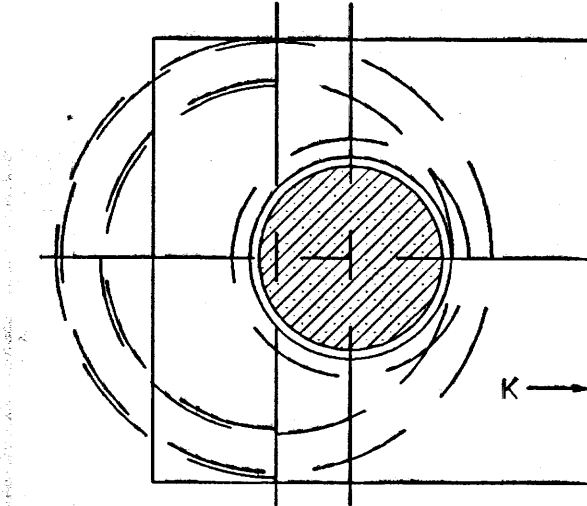
NOTE: TRENCH DRAIN SYSTEM BY ACO POLYMER PRODUCTS, OR APPROVED EQUAL.

TRENCH DRAIN DETAIL
NO SCALE

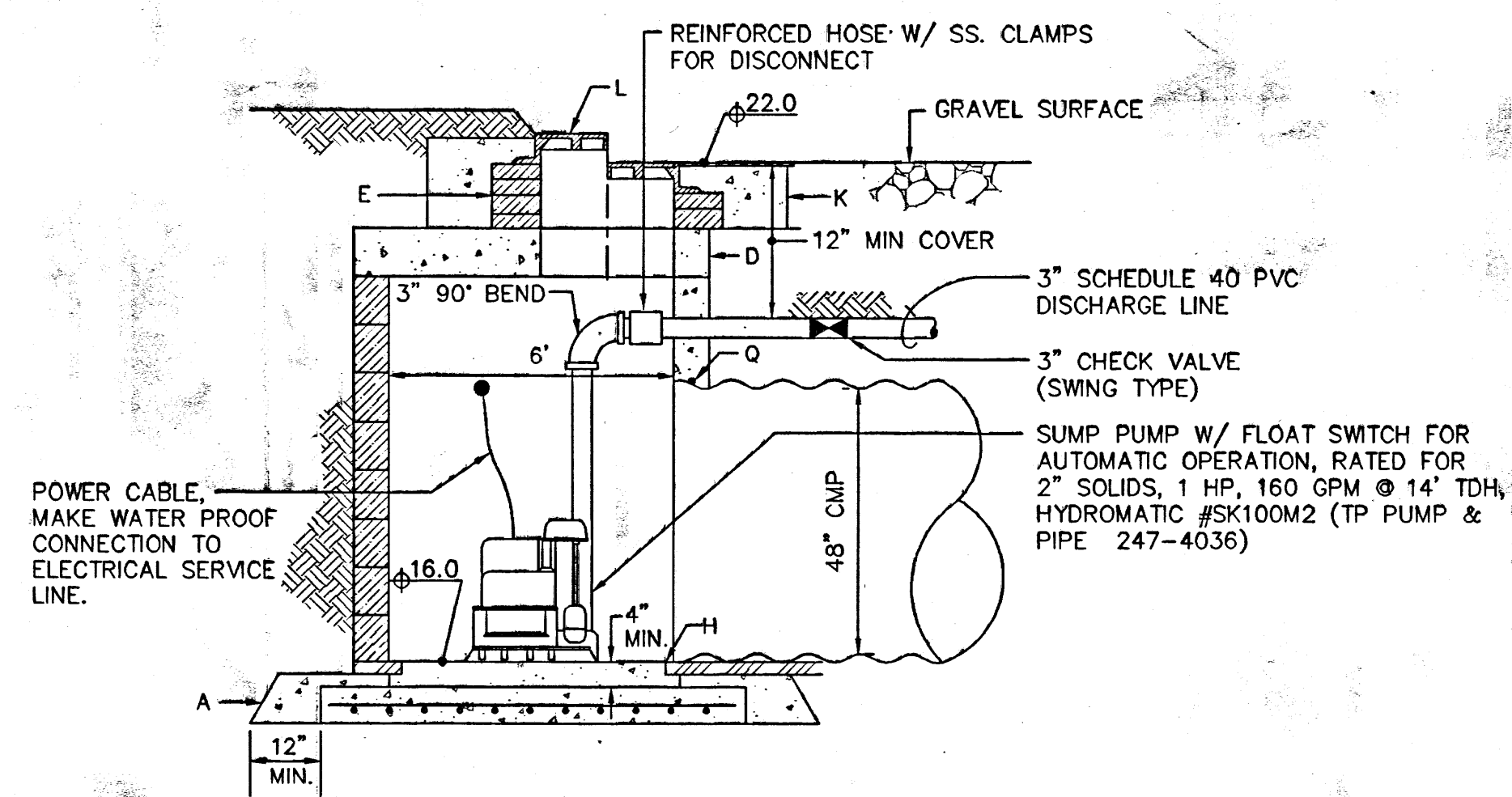


* NOTE: 3 RUNDOWNS FROM MINI-GYM DOWNSPOUTS TO BE 16" WIDE WITH 3/4" INVERTS.

CONCRETE RUNDOWN DETAIL
SCALE: 1"=1'

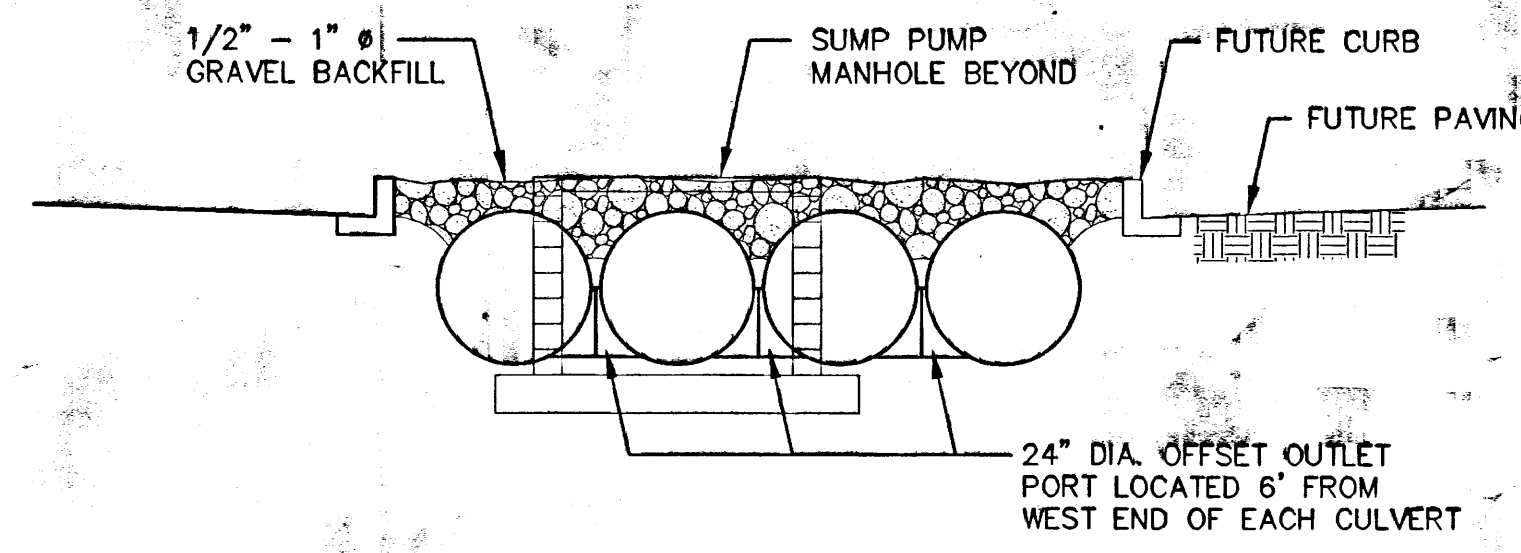


PLAN VIEW

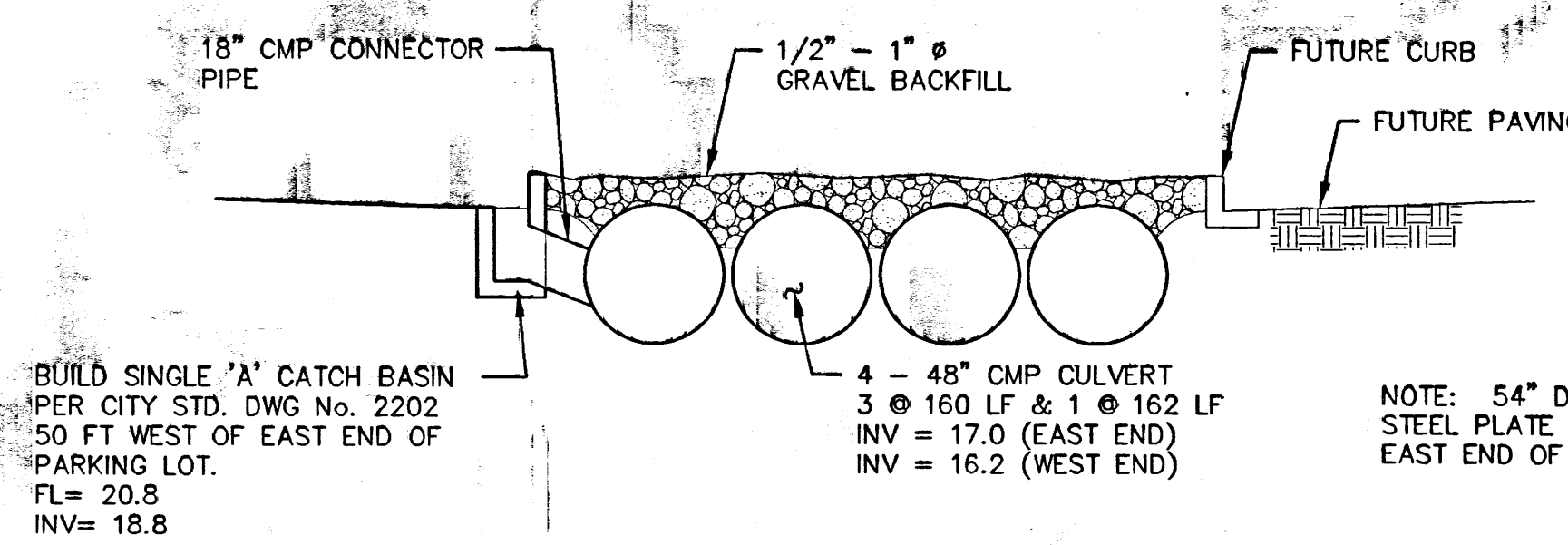


PROFILE VIEW

SUMP PUMP MANHOLE DETAIL
NOT TO SCALE



CULVERT MANIFOLD SECTION
SCALE: 1"=5'



BUILD SINGLE 'A' CATCH BASIN PER CITY STD. DWG No. 2202 50 FT WEST OF EAST END OF PARKING LOT.
FL= 20.8
INV= 18.8

NOTE: 54" DIA. REINFORCED STEEL PLATE TO BE WELDED TO EAST END OF EACH CULVERT.

MEDIAN SECTION
SCALE: 1"=5'

GENERAL NOTES

1. USE APPROVED MASTIC JOINT MATERIAL FOR ALL JOINTS.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE 'C' M.H. IN LIEU OF TYPE 'E' M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4', 6' & 8' MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTED OF PRECAST CONCRETE SECTION.
5. USE NON-SHRINK GROUT FOR FILLETS AND PENETRATIONS.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES

- A. CONCRETE PIPE SUPPORT SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
- C. PRECAST CONCRETE COVER.
- D. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- E. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
- F. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS.
- G. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- H. USE A 5' x 5' CONCRETE PAD IN ALL AREAS SLOPE FOR GRADER USE UNPAVED AREAS.
- I. FRAME AND COVER, PER CITY STD. DWS. No. 2110.
- J. CONCRETE FILL, 3000 PSI.
- K. SLOPE 1" PER FT. FROM PIPE CROWN.
- L. SHELF TO BE 9" WIDE MIN.
- M. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.

GENERAL INFORMATION

HYDROLOGIC CONDITIONS:
EXISTING DEVELOPMENT INCLUDES SCHOOL BUILDINGS, SAND AND GRASS PLAY AREAS, AND PAVED WALKWAYS AND PARKING AREAS.

LAND TREATMENT IS: 0% A 56% B 10% C 34% D
 $Q_{100} = (4.67)(2.60) + (0.83)(3.45) + (2.77)(5.02) = 28.9 \text{ CFS}$
 $V_{100} = (4.67)(.077) + (0.83)(.108) + (2.77)(.197) = 0.99 \text{ AC-FT}$

PROPOSED DEVELOPMENT INCLUDES PAVED PARKING FOR 84 CARS, THE RELOCATION OF TWO PORTABLES, AND THE ADDITION OF TWO PORTABLES AND A SECURITY TRAILER. THIS PROPOSED DEVELOPMENT INCREASES THE SITE'S IMPERVIOUS AREA AND THEREFORE THE STORMWATER RUNOFF. SITE RUNOFF WILL BE RESTRICTED TO THE HISTORIC RATE (28.9 CFS) DUE TO THE RECOGNIZED FLOODING, WHICH REQUIRES ONSITE PONDING WITH CONTROLLED RELEASE.

THE PARKING LOT HAS BEEN DESIGNED TO DRAIN TO THE INTERIOR DEPRESSED MEDIAN. A SUBMERSIBLE PUMP WILL DISCHARGE THROUGH A 3-INCH LINE TO SOUTHERN AVE. SE. PROPOSED SITE RUNOFF WILL THEN BE AS FOLLOWS:

PARKING LOT BASIN: A = 48,840 SF = 1.12 ACRES
23% B 10% C 67% D
UNCONTROLLED Q = $(0.26)(2.60) + (0.11)(3.45) + (0.75)(5.02) = 4.8 \text{ CFS}$
100-YEAR V = $(11,350)(.077) + (4,980)(.108) + (32,510)(.197) = 7,820 \text{ CF}$

PROPOSED 1 HP PUMP DISCHARGES 150 GPM (0.33 CFS)
CONTROLLED Q = 0.33 CFS

THE BALANCE OF THE SITE (AREA = 7.15 ACRES) WILL CONTINUE TO DISCHARGE UNCONTROLLED AS FOLLOWS:

$Q = (3.63)(2.60) + (0.75)(3.45) + (2.77)(5.02) = 25.9 \text{ CFS}$
TOTAL Q = 0.33 + 25.9 = 26.2 CFS

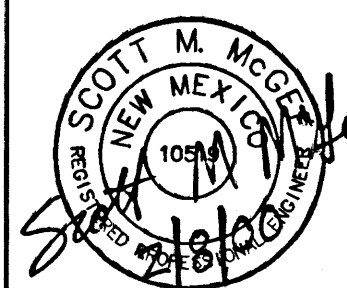
THE PROPOSED SITE DISCHARGE OF 26.2 CFS IS ACTUALLY 2.7 CFS LESS THAN THE EXISTING DISCHARGE RATE AND WILL NOT HAVE AN ADVERSE IMPACT ON DOWNSTREAM FACILITIES.

STORAGE VOLUME PROVIDED:

MEDIAN: V = $(642 \text{ FT})(12.57 \text{ CF/FT}) = 8,070 \text{ CF}$
PAVED OVERFLOW: V = $(18)(160)(.5)(2)/2 = 1,440 \text{ CF}$
TOTAL VOLUME = 9,510 CF

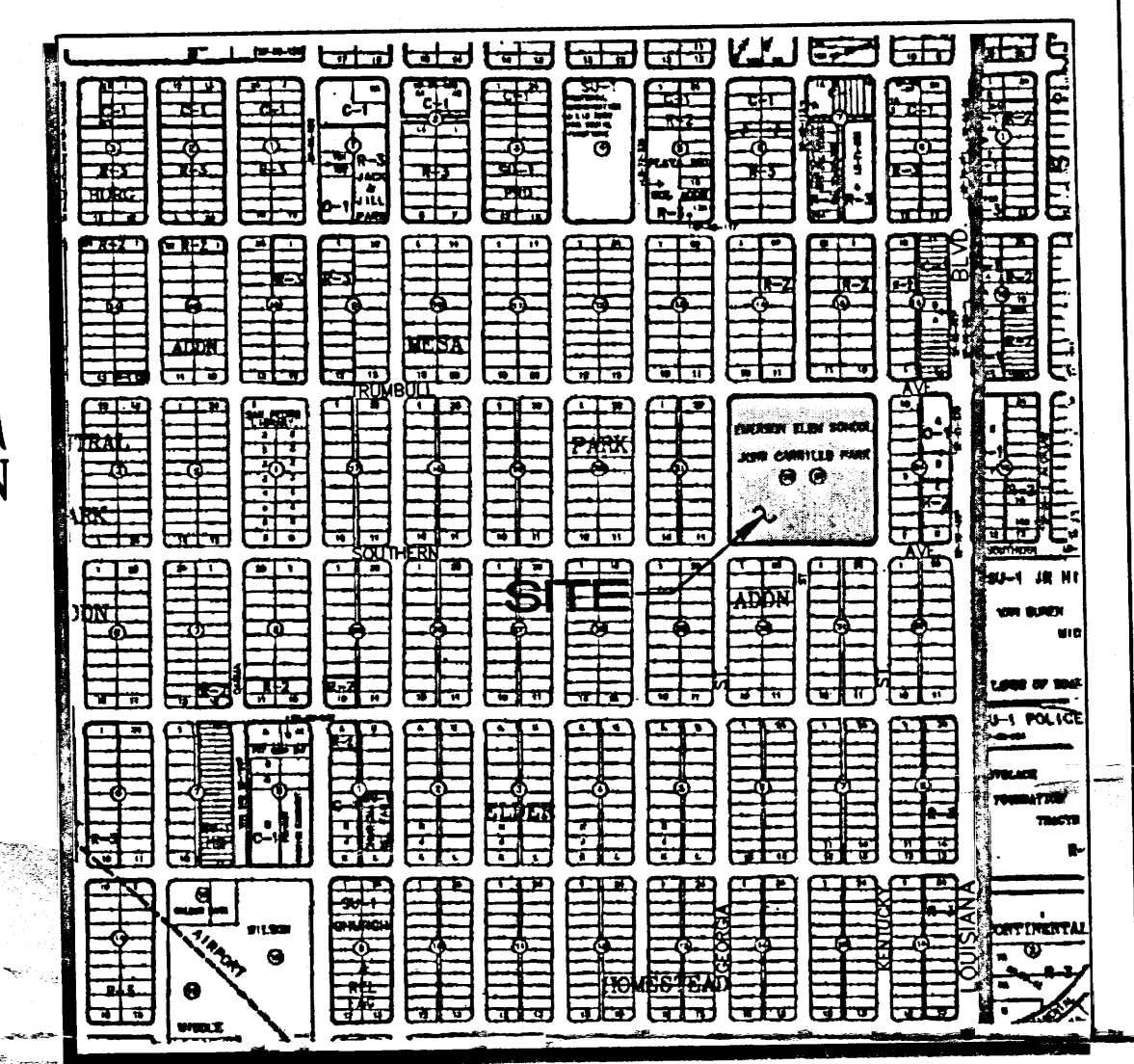
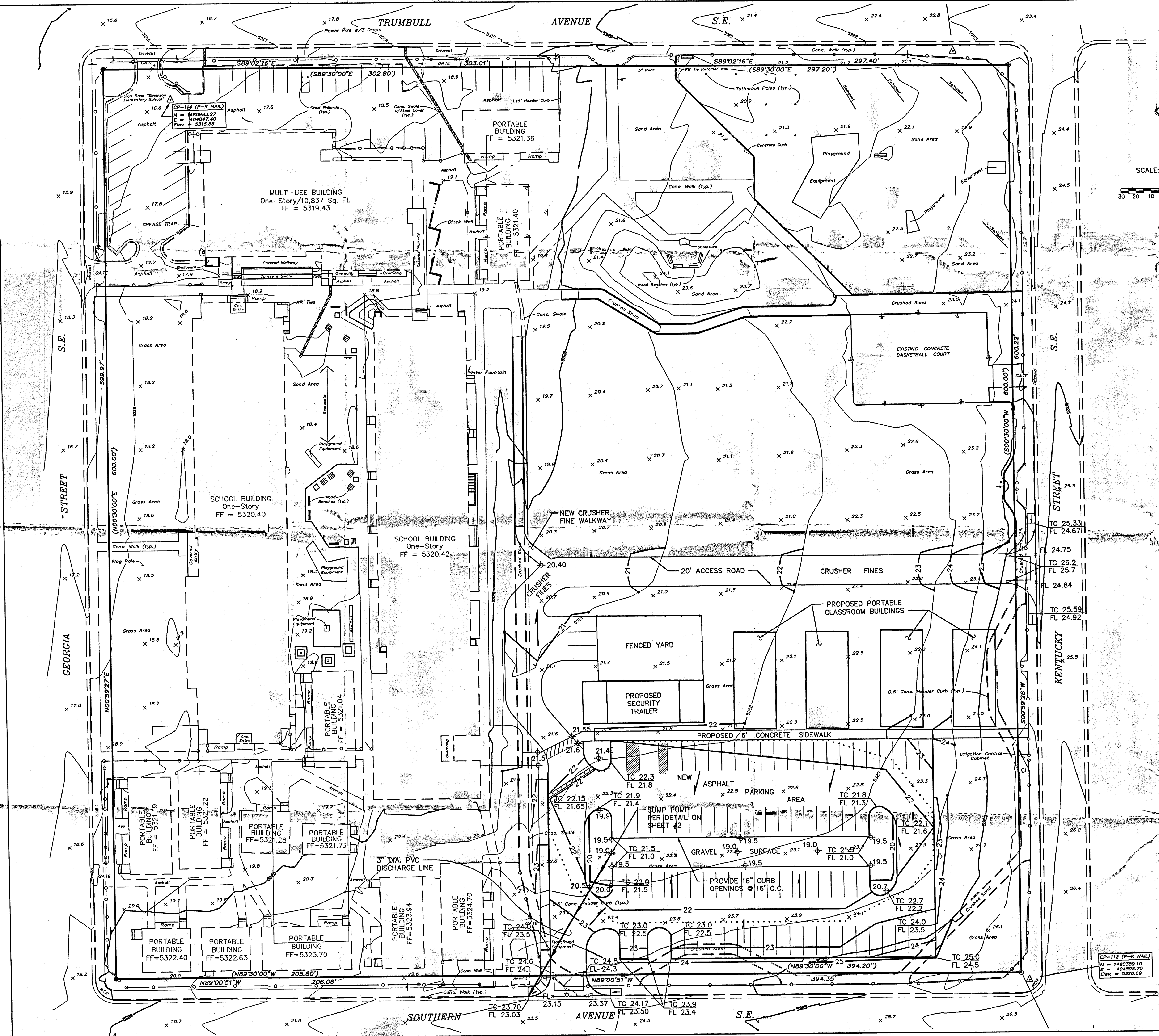
TIME TO DRAIN: T = V/Q = 9,510/20/60
TIME = 7.9 HOURS

**EMERSON ELEMENTARY SCHOOL
PARKING AREA
GRADING & DRAINAGE
NOTES & DETAILS**



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Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

056DTL1.DWG.dwg 02/08/00



L-18
VICINITY MAP
1"=750'

- LEGEND**
- EXISTING CONTOUR
 - 22 — PROPOSED CONTOUR
 - 4" HIGH WATER BAR SPEED BUMP
 - MAXIMUM WATER SURFACE LIMIT
 - x 22.3 EXISTING SPOT ELEV.
 - + 20.7 PROPOSED SPOT ELEV.
 - FLOW ARROW
 - TC 25.0 TOP OF CURB ELEV.
 - FL 24.5 FLOW LINE ELEV.

GENERAL INFORMATION

LEGAL DESCRIPTION: EMERSON ELEMENTARY SCHOOL

ADDRESS: 620 GEORGIA SE.

SITE AREA: 360,300 SF = 8.27 ACRES

PRECIPITATION ZONE: 3

SURVEYOR: WILSON & COMPANY, DATED MAY 1998

BENCHMARK(S): ACS BRASS CAP "7-18" LOCATED IN THE SOUTHWEST CORNER OF LOUISIANA BLVD. & KATHRYN AVE. SE. ELEVATION = 5335.04

TEMPORARY BENCHMARK: P-K NAIL SHOWN AT SOUTHEAST CORNER OF SITE. ELEVATION = 5326.69

SITE SOIL: AS SHOWN ON SHEET #31 OF THE SCS SOIL SURVEY OF BERNALILLO COUNTY, SOIL IS CLASSIFIED AS TIJERAS GRAVELLY FINE SANDY LOAM (HYDROLOGIC GROUP 'B' SOIL).

FLOOD HAZARD STATEMENT: FEMA PANEL 354 INDICATES THIS SITE IS WITHIN 100-YEAR FLOOD ZONE AO (DEPTH 1 FOOT).

**EMERSON ELEMENTARY SCHOOL
PARKING AREA
GRADING & DRAINAGE PLAN**

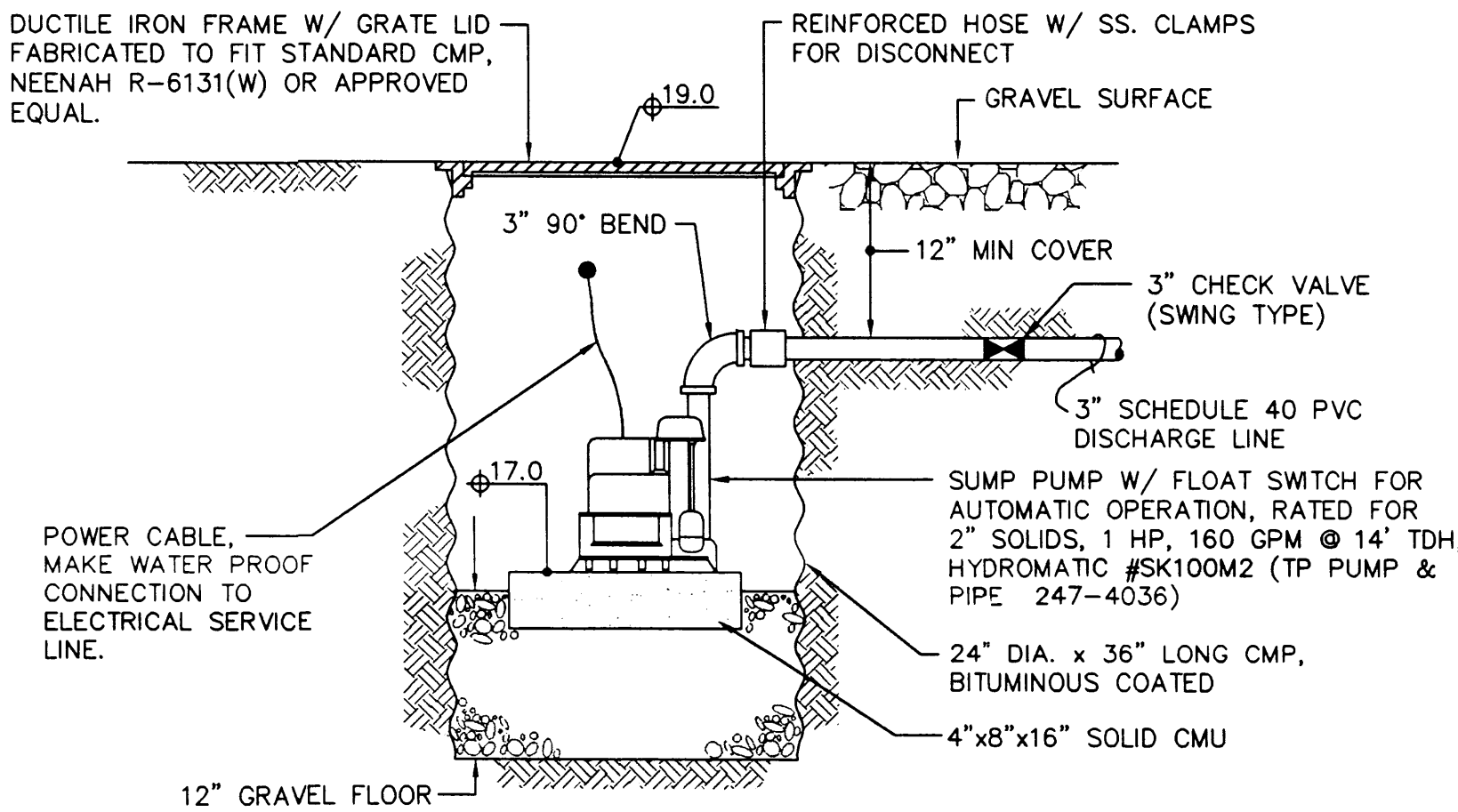
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JUN 23 1999
HYDROLOGY SECTION

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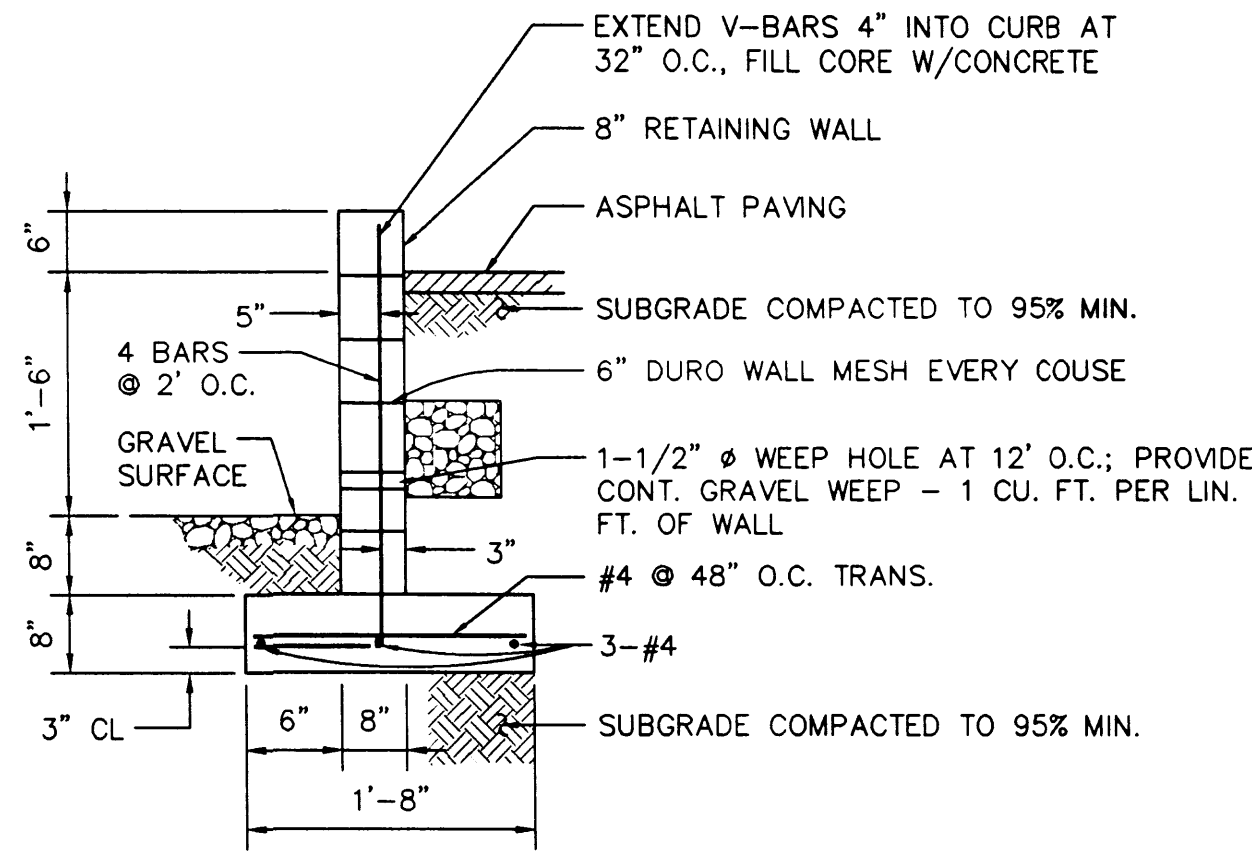
056GRD.DWGdv

04/16/99

SHEET C1



SUMP PUMP
SCALE: 1"=1'



RETAINING WALL DETAIL
NO SCALE

GENERAL INFORMATION

HYDROLOGIC CONDITIONS:
EXISTING DEVELOPMENT INCLUDES SCHOOL BUILDINGS, SAND AND GRASS PLAY AREAS, AND PAVED WALKWAYS AND PARKING AREAS.

LAND TREATMENT IS: 0% A 56% B 10% C 34% D
 $Q_{100} = (4.67)(2.60) + (0.83)(3.45) + (2.77)(5.02) = 28.9 \text{ CFS}$
 $V_{100} = (4.67)(.077) + (0.83)(.108) + (2.77)(.197) = 0.99 \text{ AC-FT}$

PROPOSED DEVELOPMENT INCLUDES PAVED PARKING FOR 84 CARS, THE RELOCATION OF TWO PORTABLES, AND THE ADDITION OF TWO PORTABLES AND ONE SECURITY TRAILER. THIS PROPOSED DEVELOPMENT INCREASES THE SITE'S IMPERVIOUS AREA AND THEREFORE THE STORMWATER RUNOFF. SITE RUNOFF WILL BE RESTRICTED TO THE HISTORIC RATE (28.9 CFS) DUE TO THE RECOGNIZED FLOODING, WHICH REQUIRES ONSITE PONDING WITH CONTROLLED RELEASE.

THE PARKING LOT HAS BEEN DESIGNED TO DRAIN TO THE INTERIOR DEPRESSED MEDIAN. A SUBMERSIBLE PUMP WILL DISCHARGE THROUGH A 3-INCH LINE TO SOUTHERN AVE. SE. PROPOSED SITE RUNOFF WILL THEN BE AS FOLLOW:

PARKING LOT BASIN: A = 48,840 SF = 1.12 ACRES
 23% B 10% C 67% D
 UNCONTROLLED Q = $(0.26)(2.60) + (0.11)(3.45) + (0.75)(5.02) = 4.8 \text{ CFS}$
 100-YEAR V = $(11,350)(.077) + (4,980)(.108) + (32,510)(.197) = 7,820 \text{ CF}$

PROPOSED 1 HP PUMP DISCHARGES 150 GPM (0.33 CFS)

CONTROLLED Q = 0.33 CFS

THE BALANCE OF THE SITE (AREA = 7.15 ACRES) WILL CONTINUE TO DISCHARGE UNCONTROLLED AS FOLLOWS:

Q = $(3.63)(2.60) + (0.75)(3.45) + (2.77)(5.02) = 25.9 \text{ CFS}$

TOTAL Q = 0.33 + 25.9 = 26.2 CFS

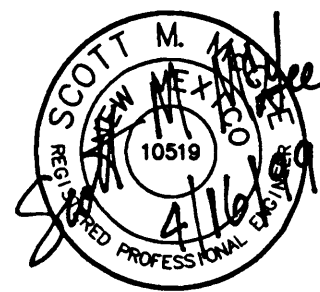
THE PROPOSED SITE DISCHARGE OF 26.2 CFS IS ACTUALLY 2.7 CFS LESS THAN THE EXISTING DISCHARGE RATE AND WILL NOT HAVE AN ADVERSE IMPACT ON DOWNSTREAM FACILITIES.

STORAGE VOLUME PROVIDED:

MEDIAN: V = $(19)(205)(2.0) = 7,790$
 PAVED OVERFLOW: V = $(18)(190)(.5)(2)/2 = 1,710$
 TOTAL VOLUME = 9,500 CF

TIME TO DRAIN: T = V/Q = 9,500/20/60
 TIME = 7.9 HOURS

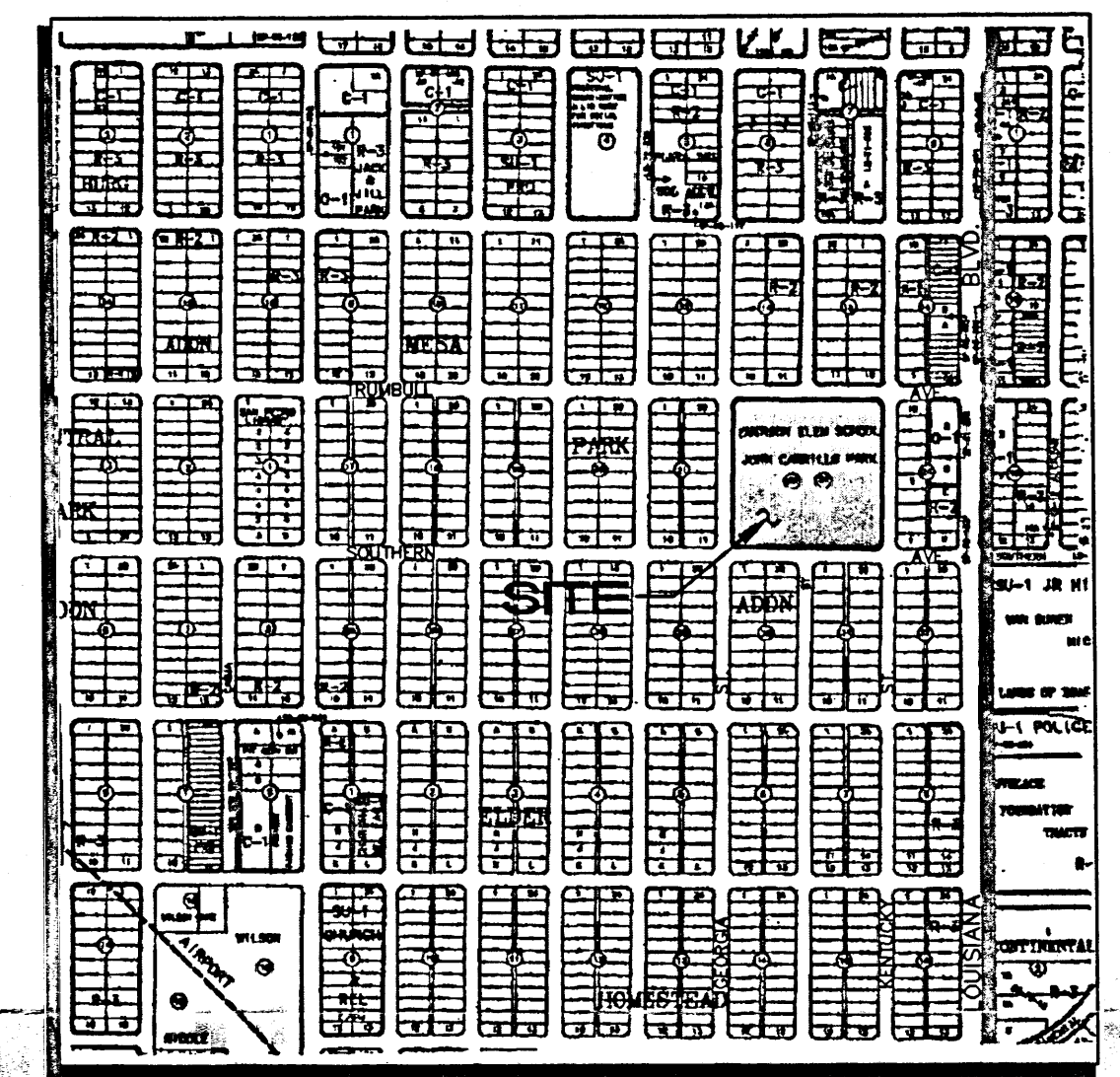
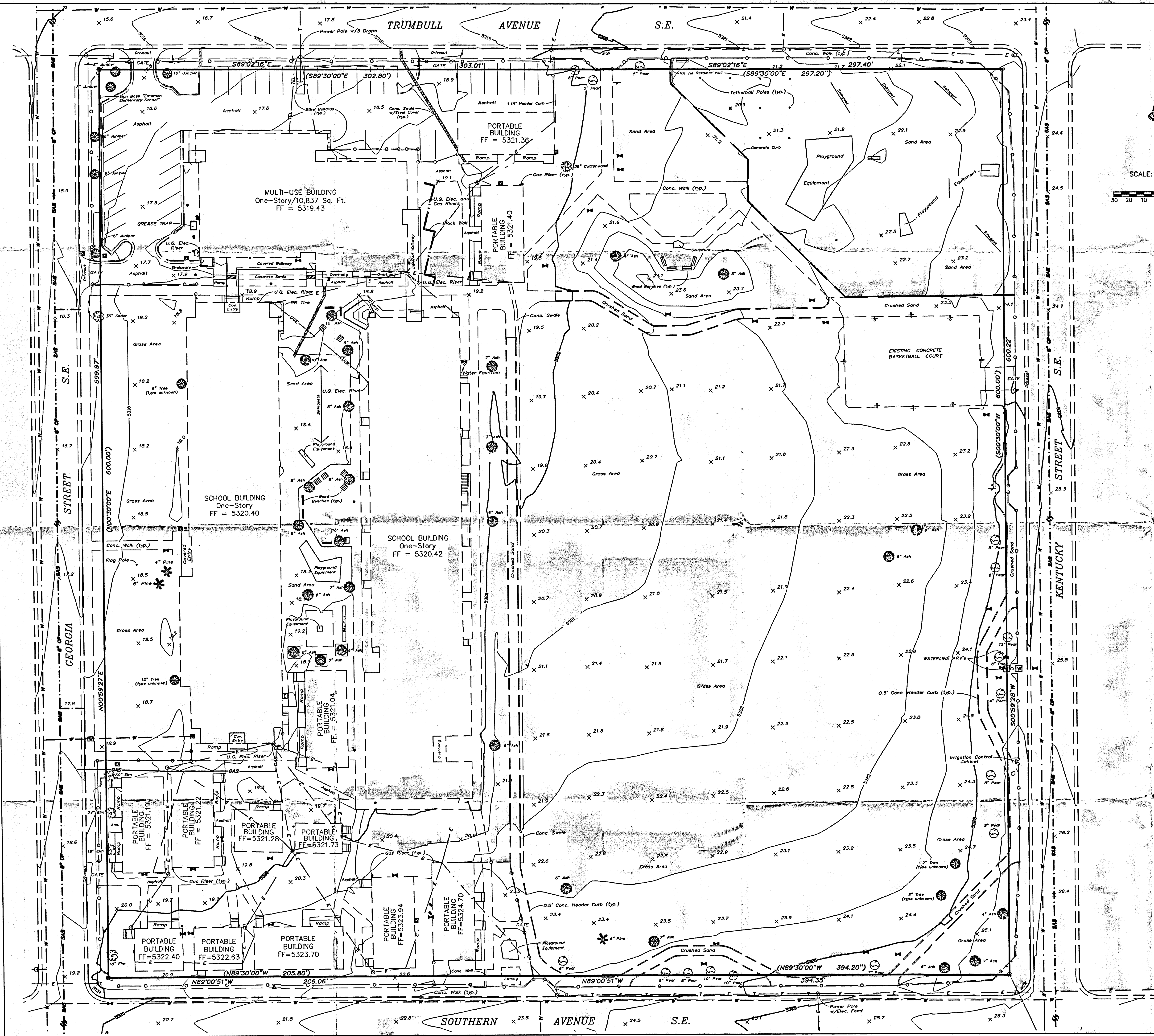
EMERSON ELEMENTARY SCHOOL PARKING AREA GRADING & DRAINAGE NOTES & DETAILS



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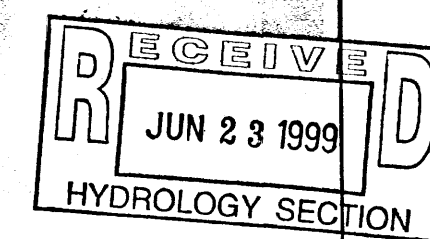
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SHEET C2

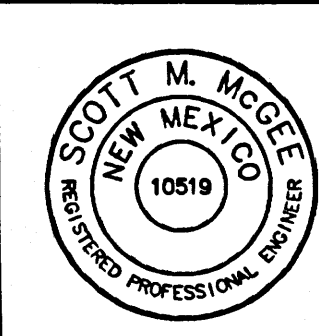


VICINITY MAP

- LEGEND**
- EXISTING CURB & GUTTER
 - EXISTING SPOT ELEV.
 - EXISTING CONTOUR
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING OVERHEAD TELEPHONE LINE
 - EXISTING UNDERGROUND TELEPHONE LINE
 - EXISTING UNDERGROUND GAS LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING WATER LINE
 - EXISTING CHAIN LINK FENCE



EMERSON ELEMENTARY SCHOOL
EXISTING SITE
PLAN



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