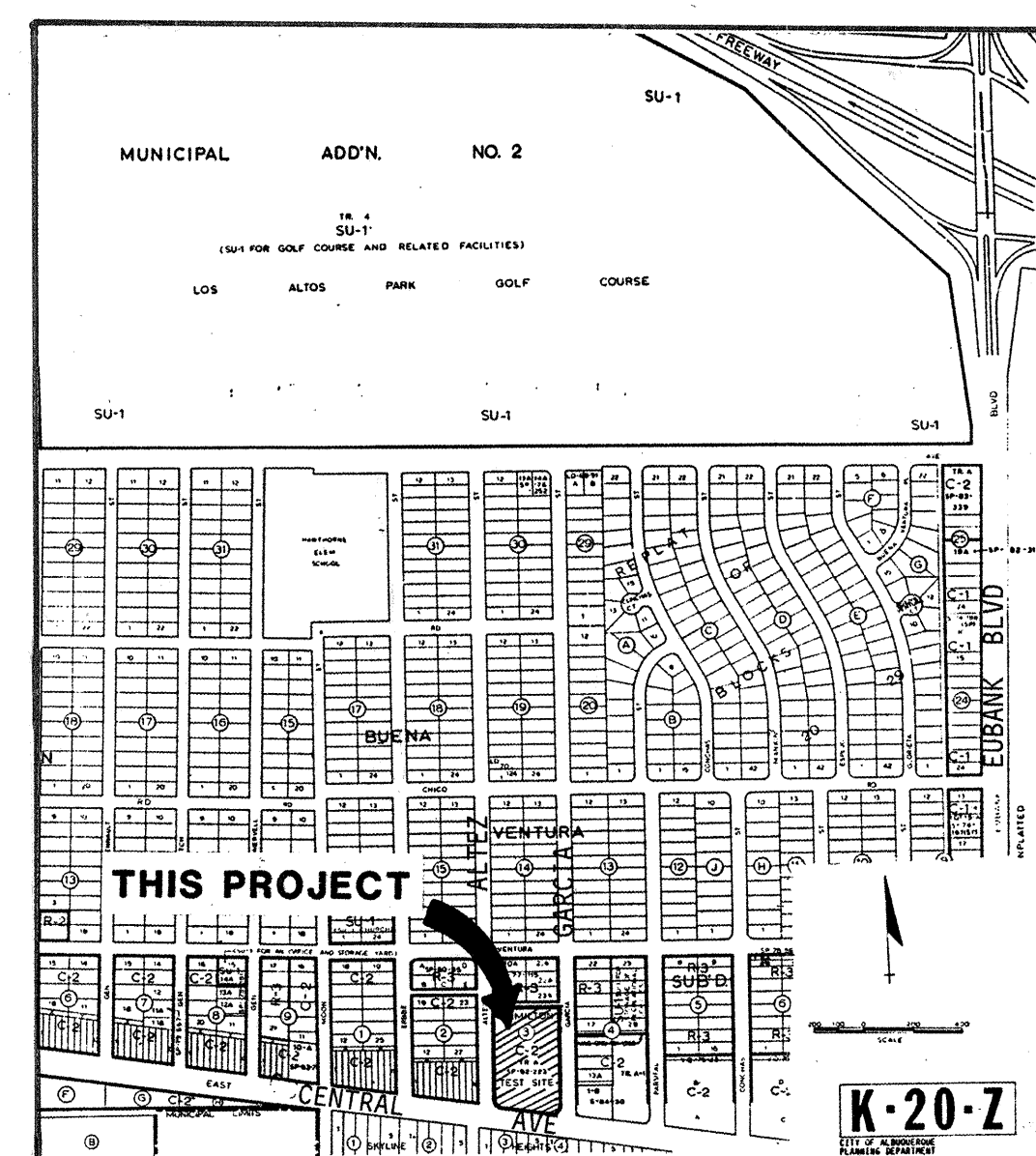


CONSTRUCTION PLANS
FOR
**SITE IMPROVEMENTS
STORM DRAINAGE
MAINTENANCE FACILITY**

HYDROLOGY DIVISION
PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE



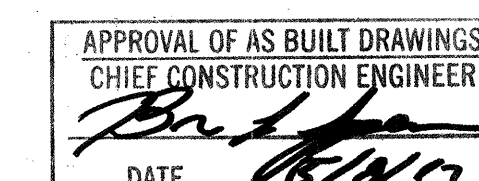
LOCATION MAP

INDEX TO DRAWINGS

1. TITLE SHEET
2. SITE IMPROVEMENTS PLAN
3. DETAILS
4. DRAINAGE PLAN

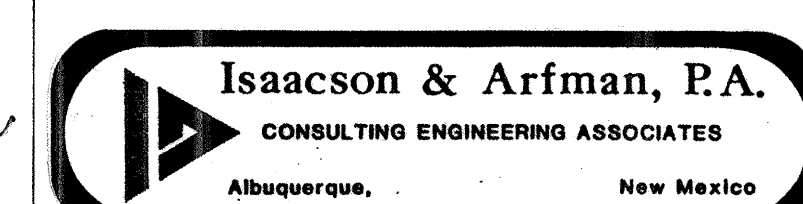
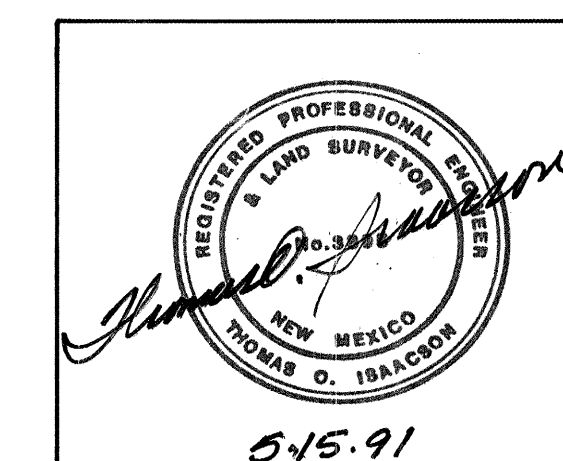
GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	4	2	7	6	9	0	0	1	9	2			

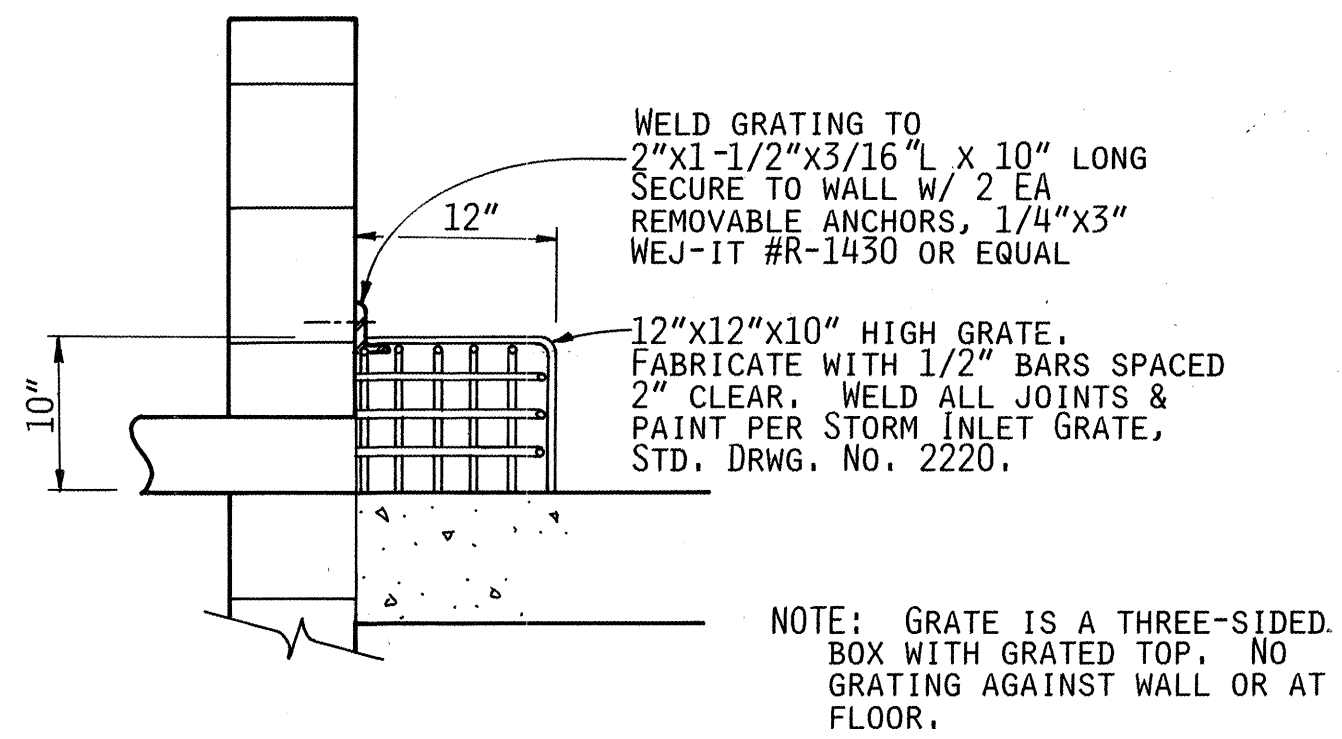
REV	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							



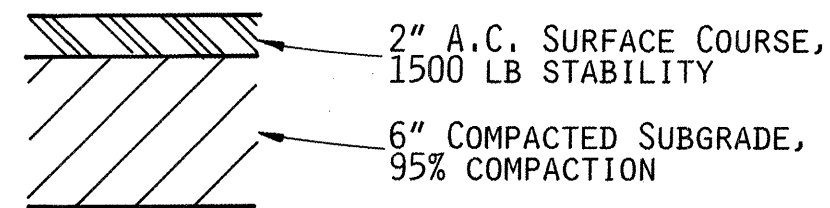
PROJECT NO. 4276.90

APPROVED FOR
CONSTRUCTION

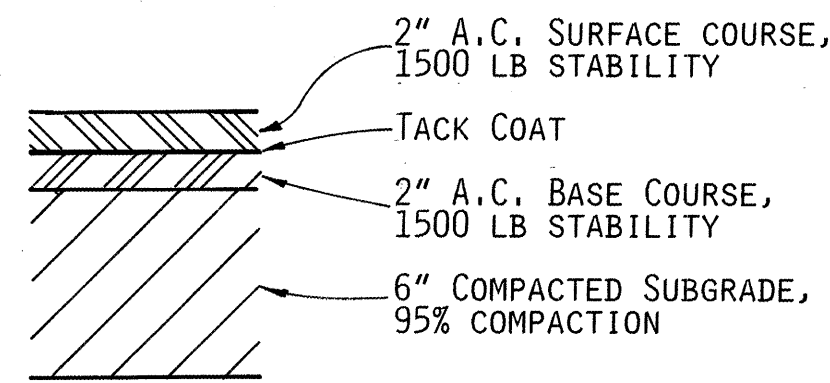
6-7-91
SHEET 1 OF 4



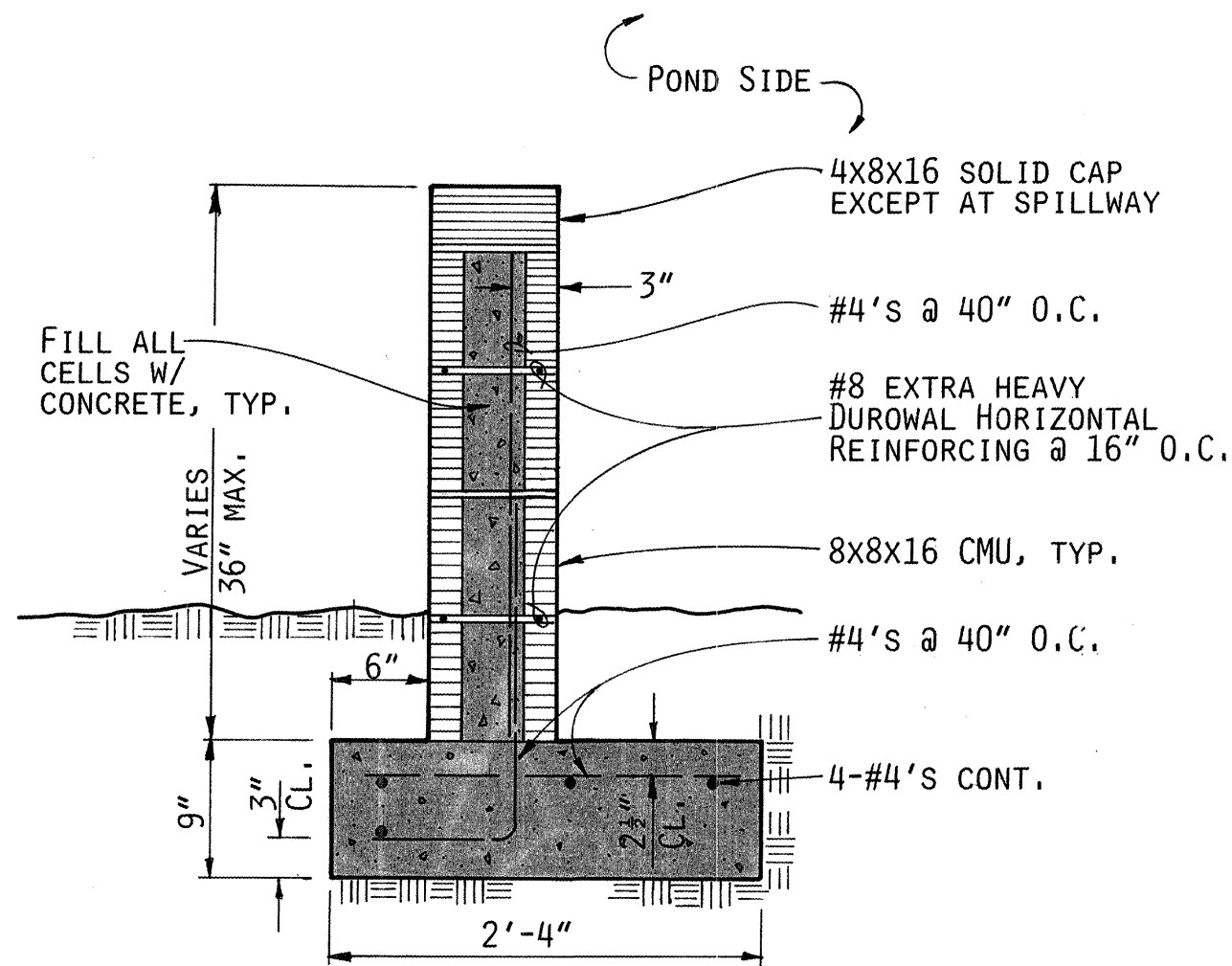
OUTLET PIPE GRATE
SCALE: 1" = 1'-0"



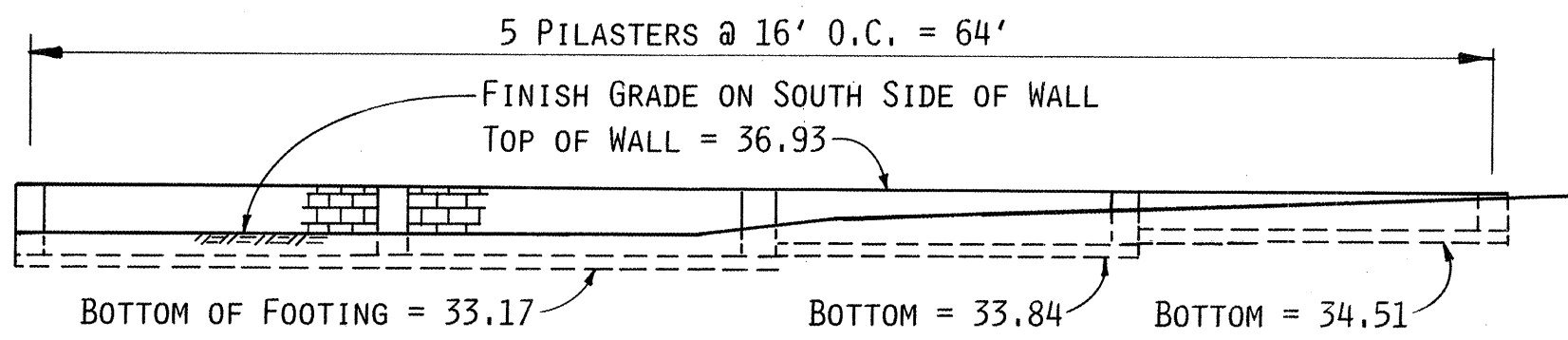
TWO-INCH PAVING SECTION
NO SCALE



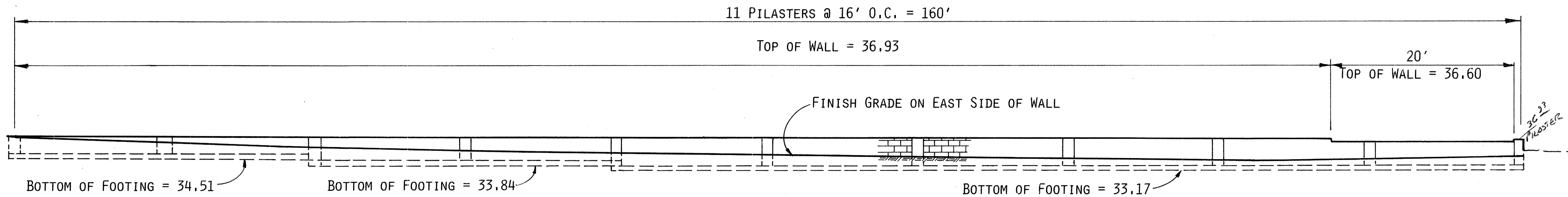
FOUR-INCH PAVING SECTION
NO SCALE



DETENTION POND WALL
SCALE: 1" = 1'-0"



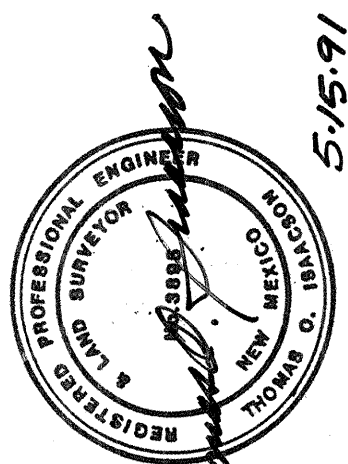
NORTH DETENTION POND WALL ELEVATION
SCALE: 1/8" = 1'-0" LOOKING NORTH



WEST DETENTION POND WALL ELEVATION
SCALE: 1/8" = 1'-0" LOOKING WEST

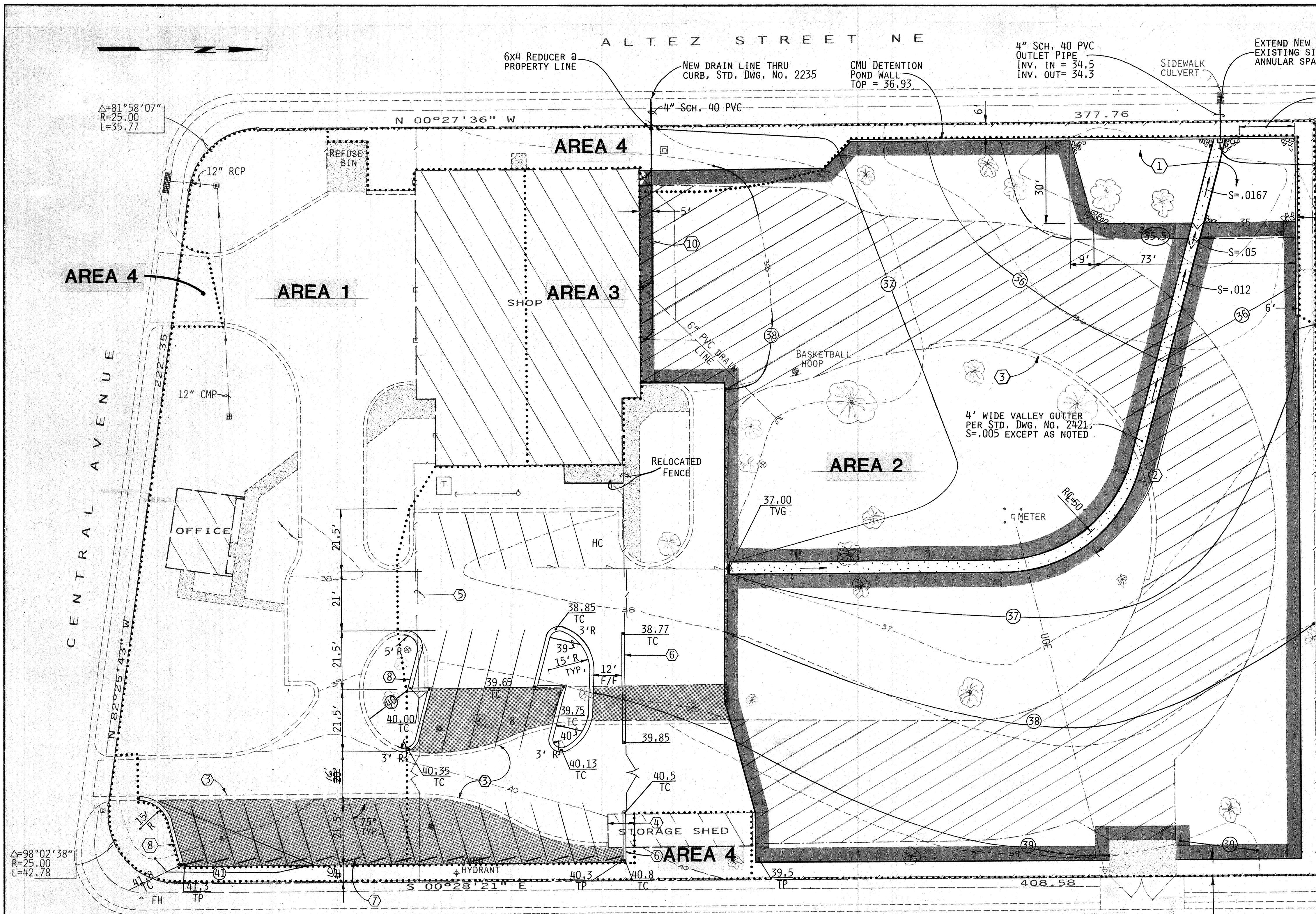
- NOTES:
- PILASTER BLOCKS TO BE 12x8x16 CMU'S FILL CELL WITH CONCRETE AND REINFORCE WITH 2 #4 BARS VERTICAL.
 - SEAL ALL VERTICAL JOINTS BETWEEN PILASTERS AND WALLS WITH CONTINUOUS BEAD OF SILICON SEALANT.

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	M.C.C.	DATE	NO.	SOUTH BONNET BOLT ON FIRE HYDRANT @ NW CORNER CENTRAL & GARCIA.	DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE
STAMPED BY	C.O.A.	DATE	NO.	ELEVATION=5442.82	DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE
FIELD	DATE	NO.	BY		DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE
REVISION	DATE	NO.	BY		DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE
CORRECTED BY	DATE	NO.	BY		DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE
RECORDED BY	DATE	NO.	BY		DATE	NO.	BY	DATE	NO.	BY	DATE	DATE	DATE	DATE	DATE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	4	2	7	6	9	0	3	9	2				

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: STORM DRAINAGE MAINTENANCE FACILITY					
DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Roger Shoen	6-3-91	Water	N/A	5-20-91
Trans. Dev.	R. Smith	5-22-91	Waste Water		
Hydrology	J. Austin	6-3-91			
PROJECT NO.	4276.90	MAP NO.	K-20	SHEET	3 OF 4



NOTE: POND WATER LEVELS (AREA 2)
10 YR. STORM = 36.1
100 YR. STORM = 36.6

DRAINAGE CRITERIA
CRITERIA SHALL CONFORM TO THE CRITERIA USED FOR THE ORIGINAL DRAINAGE PLAN AS FOLLOWS:
1. 100-YR. DEVELOPED RUNOFF RATE SHALL NOT EXCEED THE 5-YR. UNDEVELOPED RUNOFF RATE
2. DETENTION PONDING SHALL BE PROVIDED FOR THE DIFFERENCE BETWEEN THE 6-HR. DEVELOPED AND UNDEVELOPED RUNOFF VOLUME

UNDEVELOPED CONDITIONS
AREA = 113,024 SQ. FT. (2.59 AC.)
HYDROLOGIC SOIL GROUP B
COEFFICIENT OF RUNOFF, C = 0.34
100-YR. 6-HR. RAINFALL = 2.40"
5-YR. 6-HR. RAINFALL = 2.40 x 0.541 = 1.3"
5-YR. RAINFALL INTENSITY, I = 1.30 x 2.11 = 2.74"/HR.
Q 5-YR. = CIA = .34 x 2.74 x 2.59 = 2.41 CFS
CN = 70
Q = .45"
V 100-YR. = QA = .45 + 12 x 113,024 = 4238 CU. FT.

AMENDED DEVELOPED CONDITIONS
Q 100-YR. RATES:
AREA 1, CONTROLLED DISCHARGE (UNCHANGED) = .97 CFS
AREA 2, CONTROLLED DISCHARGE, 4" OUTLET PIPE (FOR 2.1' HEAD) = .70 CFS
Q = CIA = .90 x 5.06 x .095 = .43 CFS
AREA 4, FREE DISCHARGE:
Q = CIA = .35 x 5.06 x .17 = .30 CFS
2.40 CFS
OK

V 100-YR. CALCULATIONS:

AREA NO.	AREA (SF)	IMPERVIOUS PERCENT	CN	Q (IN.)	VOLUME (CU. FT.)
1	27,511	64	87	1.25	2,866
2	74,173	94	96	1.95	12,053
3	4,112	100	100	2.40	822
4	7,228	15	74	.55	331
					16,072

REQ'D PONDING: 16,072 - 4,238 = 11,384 CU. FT.

PONDING VOLUME CALCULATIONS (AREA 2)

ELEVATION	AREA (SF)	AVG. AREA (SF)	DEPTH (FT)	VOLUME (CF)
34.5	0	--	--	--
35.0	2,880	1,440	.5	720
35.5	3,780	3,330	.5	1,665
36.0	6,900	5,340	.5	2,670
36.5	13,380	10,140	.5	5,070
36.6	14,940	14,160	.1	1,416
				11,541 CU. FT.

PONDING AVAILABLE
AREA 1 (ORIGINAL PLAN UNCHANGED) = 1,736 CU. FT.
AREA 2 = 11,541 "
13,277, "
OK > 11,384 "

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	4	2	7	6	9	0	0	4	9	2				

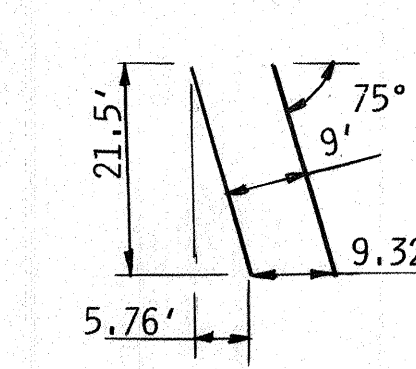
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: STORM DRAINAGE MAINTENANCE FACILITY
AMENDED DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Rogel	6-3-91	Water	N/A	5/10/91
Trans. Dev.	Blanch	5-22-91	Waste Water		
Hydrology	Plantier	6-3-91			

PROJECT NO. 4276.90 MAP NO. K 20 SHEET 4 OF 4

- LEGEND OF EXISTING IMPROVEMENTS**
- BUILDING DOWNSPOUT
 - SPRINKLER VALVE
 - 5' CLF W/3 STRAND BARBED WIRE
 - 18" CURB & GUTTER
 - GATE OPERATOR
 - TRANSFORMER
 - TREES
 - ASPHALT LIMITS
 - CONCRETE
 - SEDIMENT TRAP
 - POWER POLE WITH GUY WIRE & UG LINE



- LEGEND OF NEW IMPROVEMENTS**
- 41.3 TP TOP OF PAVEMENT GRADE
 - 41.8 TC TOP OF CURB GRADE
 - 37.00 TVG TOP OF VALLEY GUTTER GRADE
 - EXISTING ASPHALT TO BE REMOVED
 - NEW 2" ASPHALTIC CONCRETE PAVEMENT
 - NEW 4" ASPHALTIC CONCRETE PAVEMENT

AMENDED DRAINAGE PLAN

SCALE: 1"=20'