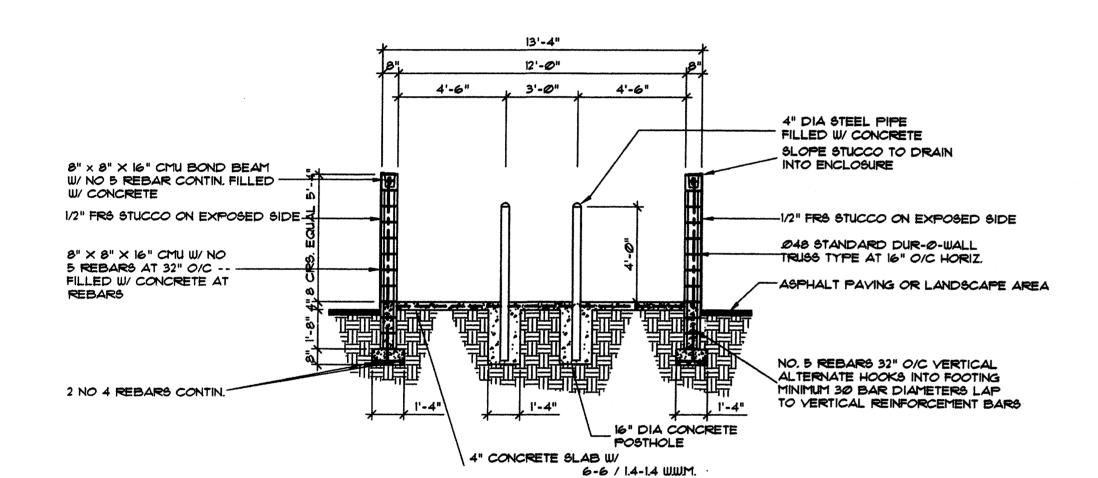
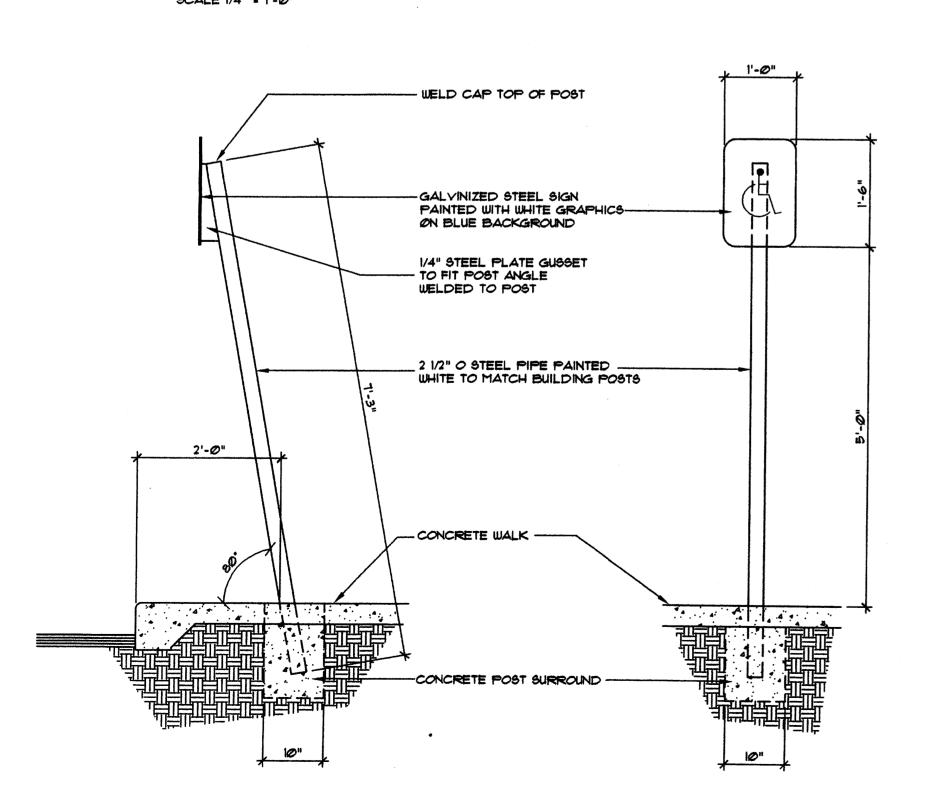


REFUSE ENCLOSURE PLAN

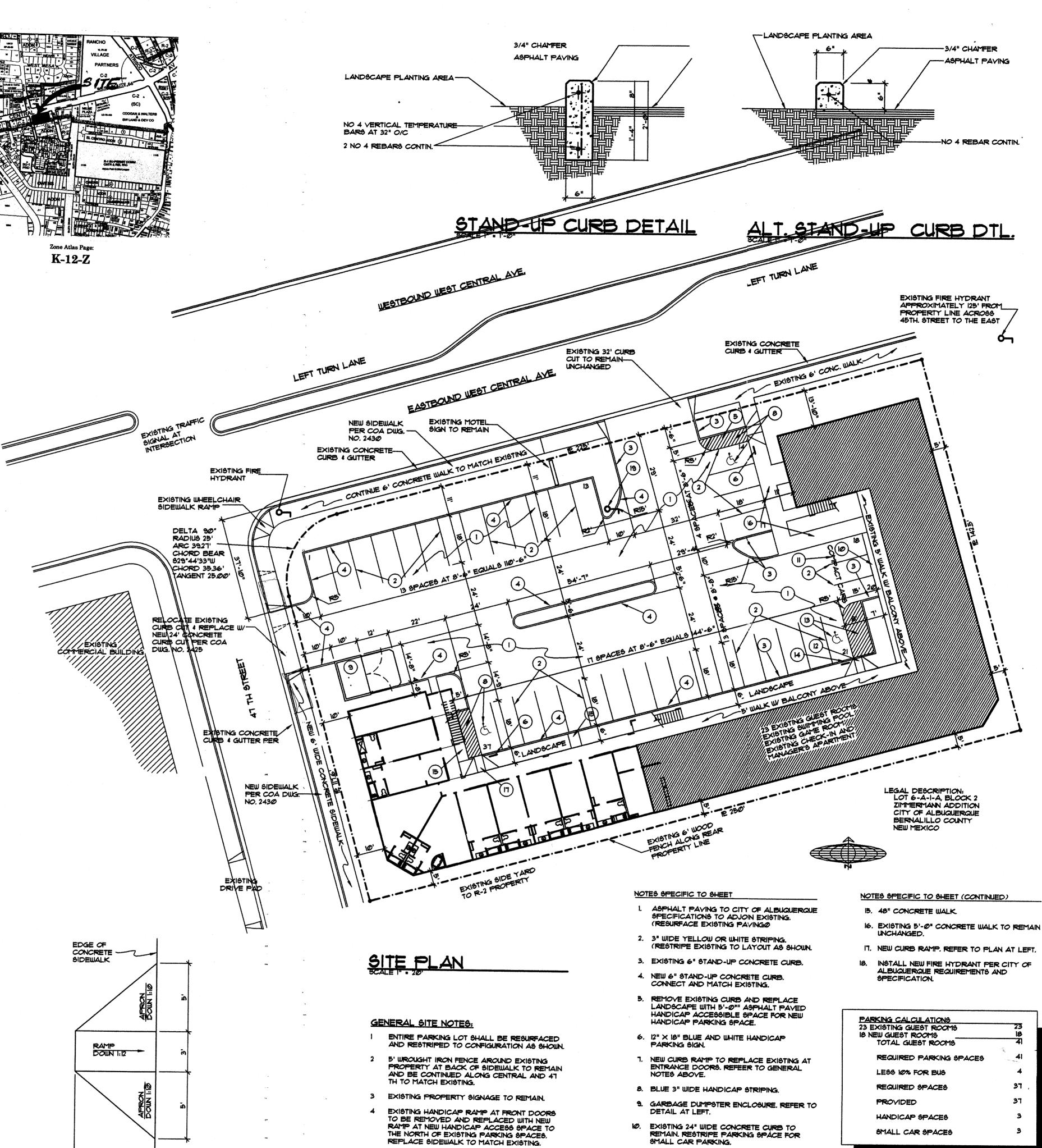
SCALE 1/4" = 1'-0"



REFUSE ENCLOSURE SECTION SCALE 1/4" = 1'-0"



HANDICAP PARKING SIGN



TRAFFIC CIRCULATION LAYOUT

APPROVED

12/19/05

PLAN AT CURB RAMP

SMALL CAR PARKING.

SPACE STRIPING.

11. PAINT "COMPACT CARS" ON PAVEMENT.

13. REPAINT EXISTING HANDICAP ACCESS

14. NEW HANDICAP PARKING SIGN WITH "VAN ACCESSIBLE" ATTACHMENT PER DETAIL AT LEFT.

12. EXISTING CURB RAMP TO REMAIN.

3/4" CHAMFER

--- ASPHALT PAVING

NO 4 REBAR CONTIN.

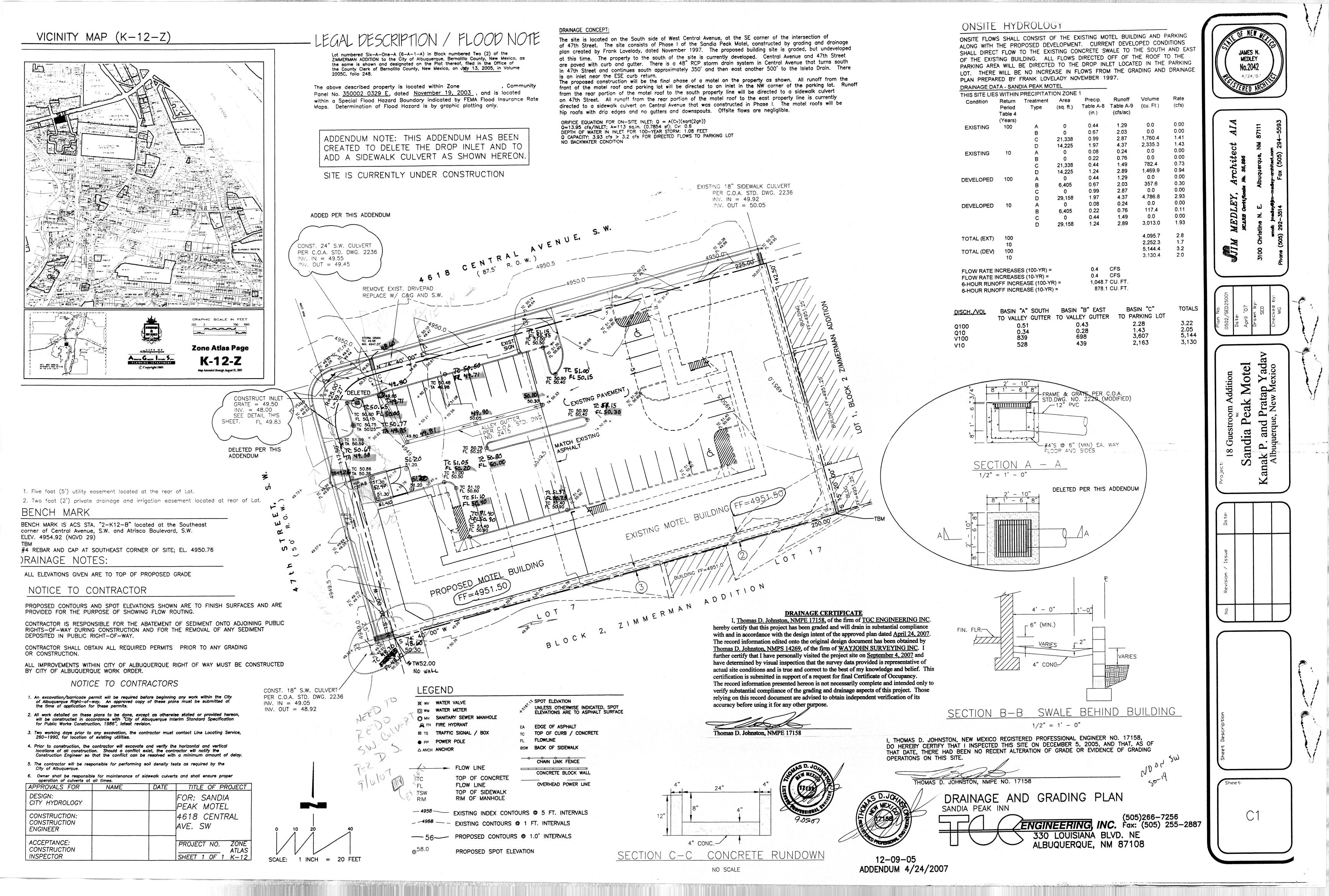
Motel dia San Kanak Alb

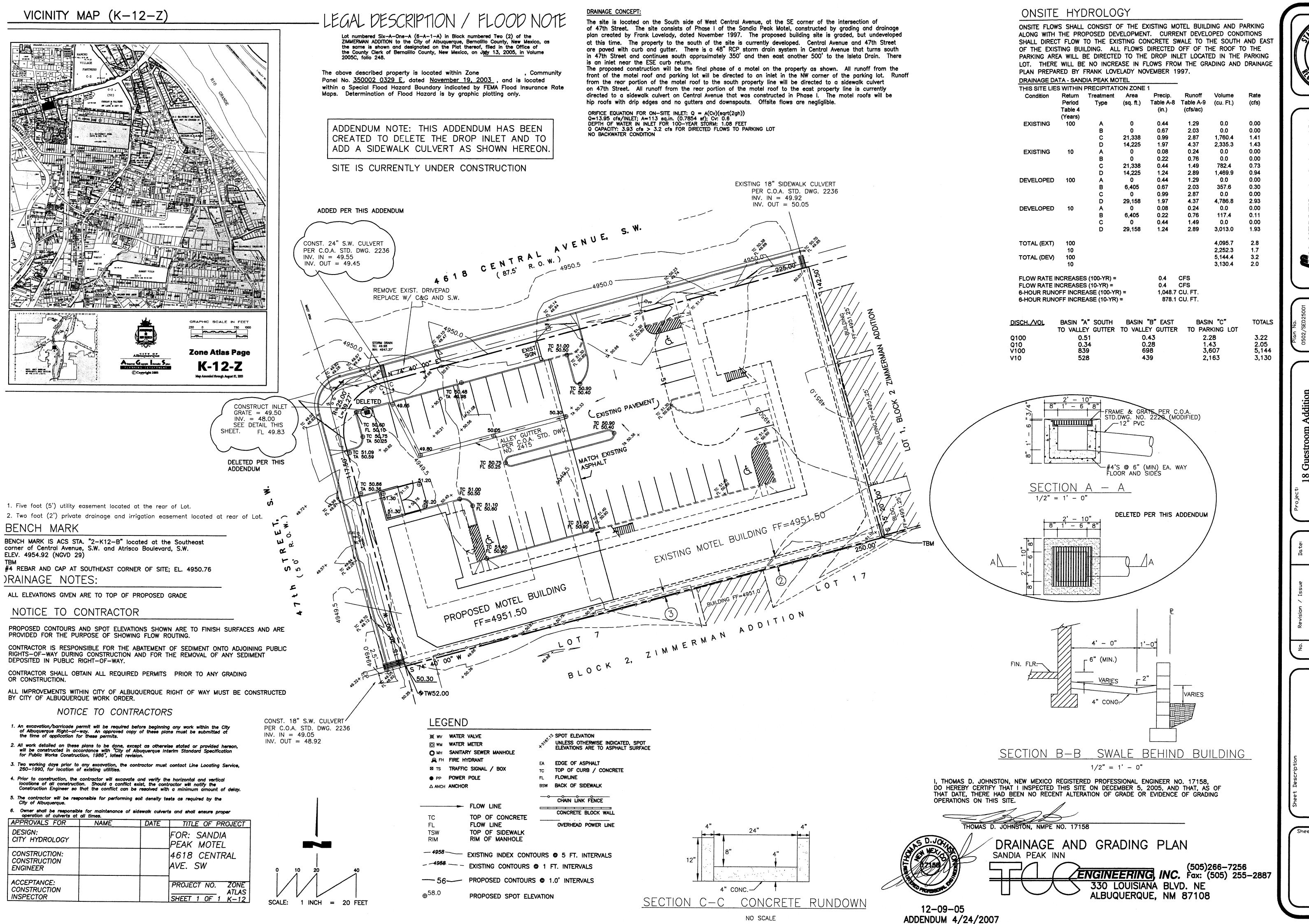
<u>0</u>

HYDROLOG

DEC 1 9 2005

AND DEVELOPMENT SECTION

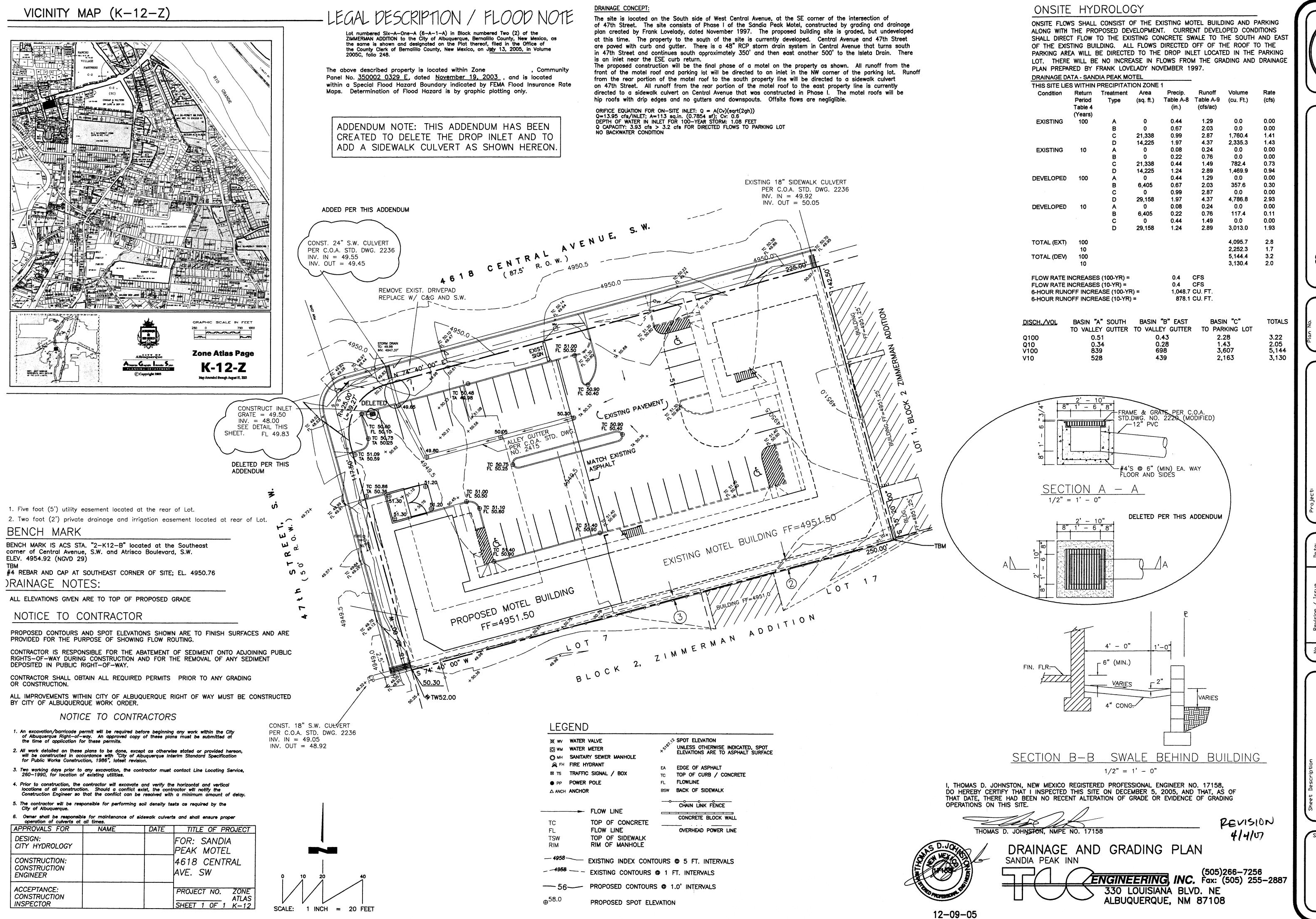




MEDLEY

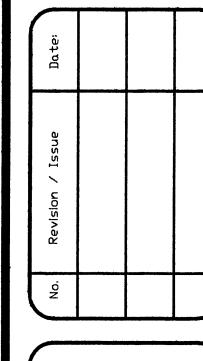
ada

Motel eak dia anak Alb Sa



MEDLEY No.2042

Motel ak ndia S



Sheet

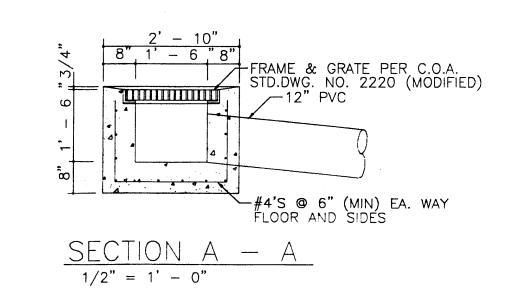
ADDENDUM 4/04/2007

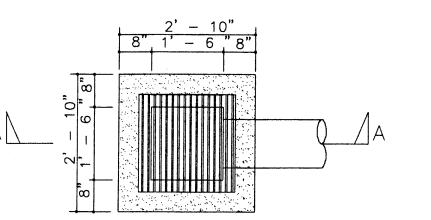
ONSITE HYDROLOGY

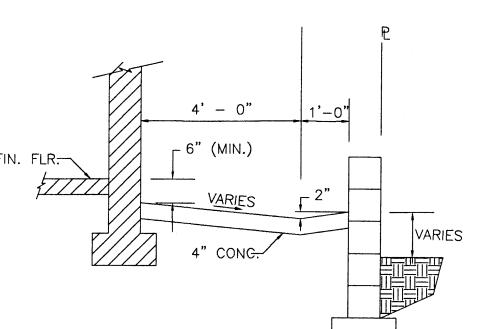
ONSITE FLOWS SHALL CONSIST OF THE EXISTING MOTEL BUILDING AND PARKING ALONG WITH THE PROPOSED DEVELOPMENT. CURRENT DEVELOPED CONDITIONS SHALL DIRECT FLOW TO THE EXISTING CONCRETE SWALE TO THE SOUTH AND EAST OF THE EXISTING BUILDING. ALL FLOWS DIRECTED OFF OF THE ROOF TO THE PARKING AREA WILL BE DIRECTED TO THE DROP INLET LOCATED IN THE PARKING LOT. THERE WILL BE NO INCREASE IN FLOWS FROM THE GRADING AND DRAINAGE PLAN PREPARED BY FRANK LOVELADY NOVEMBER 1997.

THIS SITE LIE							
Condition	Return	Treatment	Area	Precip.	Runoff	Volume	Rat
	Period	Type	(sq. ft.)	Table A-8	Table A-9	(cu. Ft.)	(cfs
	Table 4			(in.)	(cfs/ac)		
EXISTING	(Years) 100	Α	0	0.44	1.29	0.0	0.00
LXISTINO	100	В	0	0.44	2.03	0.0	0.00
		C	21,338	0.99	2.87	1,760.4	1.4
		D	14,225	1.97	4.37	2,335.3	1.4
EXISTING	10	A	0	0.08	0.24	0.0	0.00
LXIOTINO	10	В	0	0.00	0.76	0.0	0.00
		C	21,338	0.22	1.49	782.4	0.73
		D	14,225	1.24	2.89	1,469.9	0.74
DEVELOPED	100	Ā	0	0.44	1.29	0.0	0.00
		В	6,405	0.67	2.03	357.6	0.30
		Ċ	0	0.99	2.87	0.0	0.00
		Ď	29,158	1.97	4.37	4,786.8	2.93
DEVELOPED	10	Ā	0	0.08	0.24	0.0	0.00
		В	6,405	0.22	0.76	117.4	0.1
		C	0	0.44	1.49	0.0	0.00
		D	29,158	1.24	2.89	3,013.0	1.93
TOTAL (EXT)	100					4,095.7	2.8
` ,	10					2,252.3	1.7
TOTAL (DEV)	100					5,144.4	3.2
	10					3,130.4	2.0
FLOW RATE IN	NCREASES	S (100-YR) =		0.4	CFS		
FLOW RATE IN	NCREASES	S (10-YR) =		0.4	CFS		
6-HOUR RUNOFF INCREASE (100-YR) = 6-HOUR RUNOFF INCREASE (10-YR) =			1,048.7 CU. FT.				
			878.1	878.1 CU. FT.			

BASIN "A" SOUTH BASIN "B" EAST TOTALS TO VALLEY GUTTER TO VALLEY GUTTER TO PARKING LOT 3.22 2.05 5,144 Q10 V100 0.28 698 1.43 3,607 839 V10 528 2,163 3,130







SECTION B-B SWALE BEHIND BUILDING 1/2" = 1' - 0"

I, THOMAS D. JOHNSTON, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 17158, DO HEREBY CERTIFY THAT I INSPECTED THIS SITE ON DECEMBER 5, 2005, AND THAT, AS OF THAT DATE, THERE HAD BEEN NO RECENT ALTERATION OF GRADE OR EVIDENCE OF GRADING



ORGINAL APPROVED

DRAINAGE AND GRADING PLAN SANDIA PEAK INN

PUN ENGINEERING, INC. Fax: (505) 255-2887 330 LOUISIANA BLVD. NE

MEDLEY No.2042

dia Sa

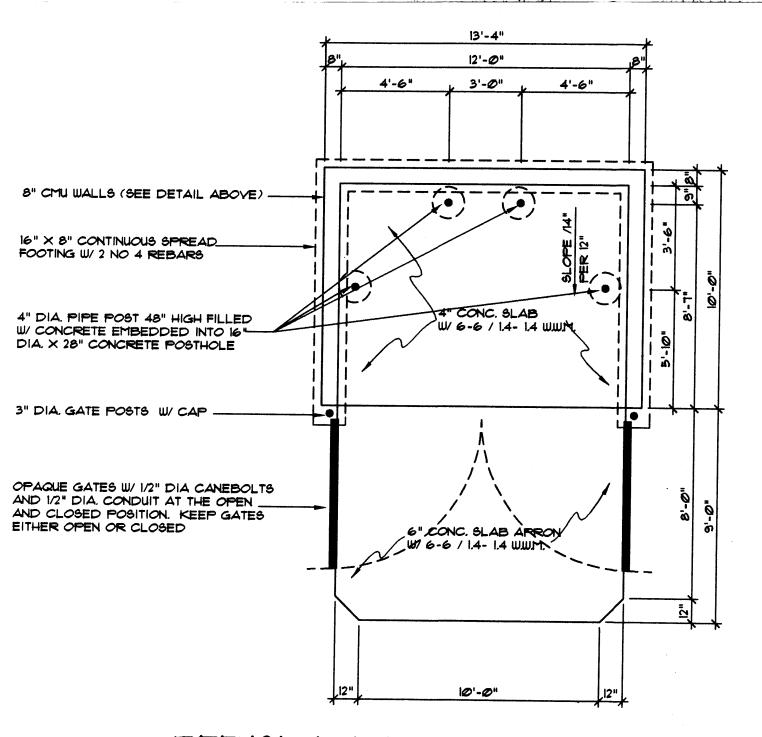
ALBUQUERQUE, NM 87108

1 INCH = 20 FEET

SHEET 1 OF 1 K-12

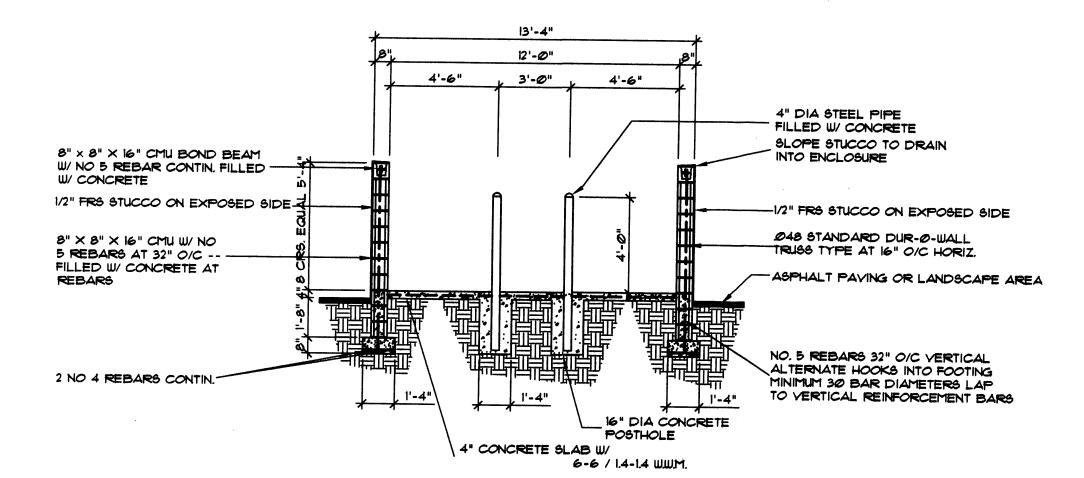
INSPECTOR

PROPOSED SPOT ELEVATION

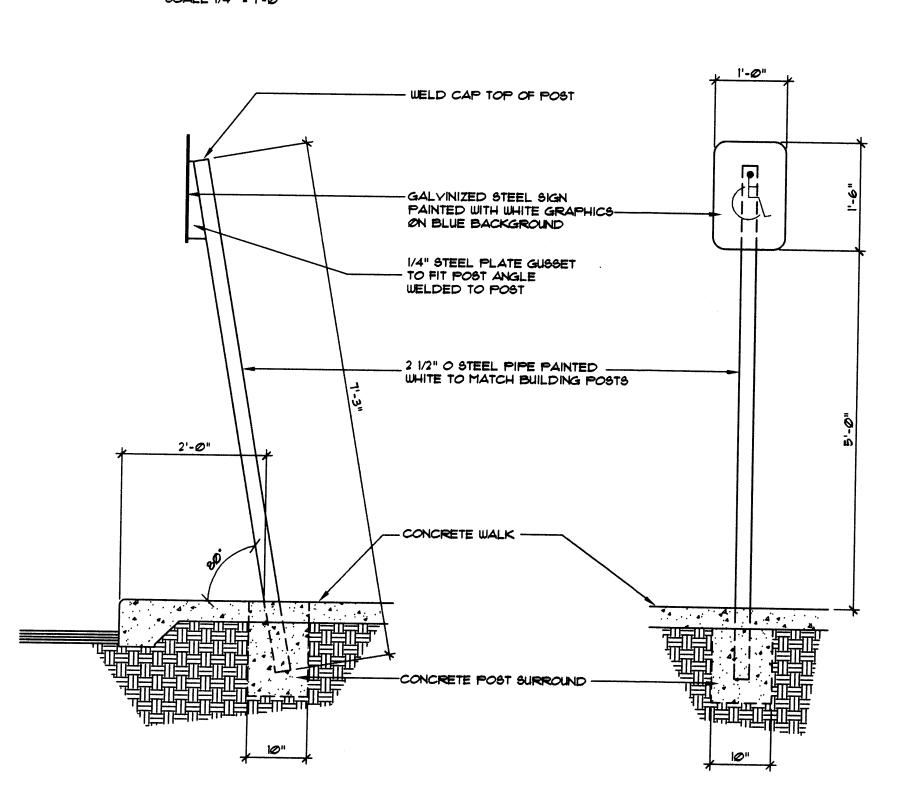


REFUSE ENCLOSURE PLAN

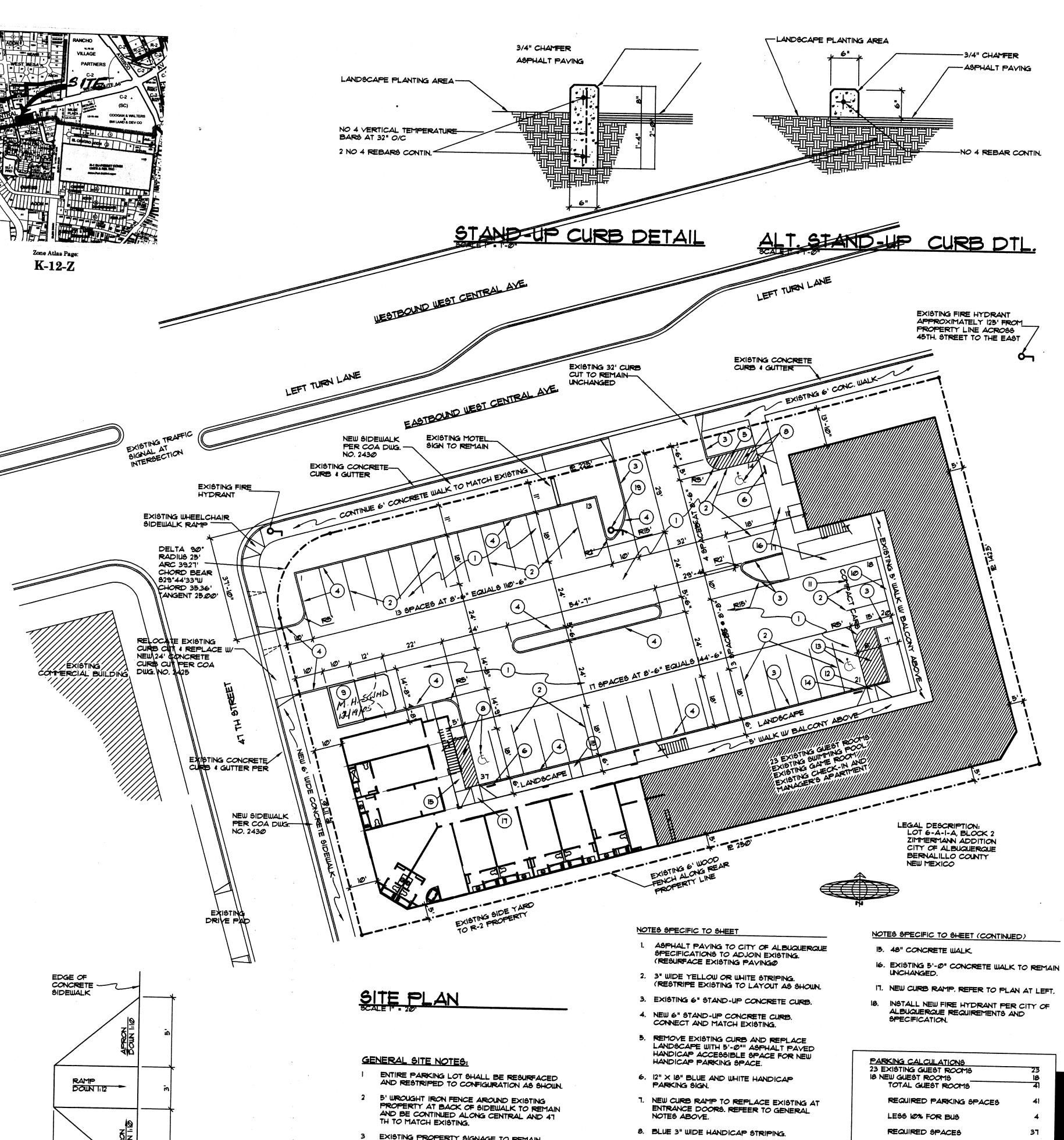
SCALE 1/4" = 1'-0"



REFUSE ENCLOSURE SECTION SCALE 1/4" - 1'-0"



HANDICAP PARKING SIGN



- 3 EXISTING PROPERTY SIGNAGE TO REMAIN.
- EXISTING HANDICAP RAMP AT FRONT DOORS TO BE REMOVED AND REPLACED WITH NEW RAMP AT NEW HANDICAP ACCESS SPACE TO THE NORTH OF EXISTING PARKING SPACES. REPLACE SIDEWALK TO MATCH EXISTING.

TRAFFIC CIRCULATION LAYOUT APPROVED

12/19/05 Date

- 9. GARBAGE DUMPSTER ENCLOSURE, REFER TO DETAIL AT LEFT.
- 10. EXISTING 24" WIDE CONCRETE CURB TO REMAIN. RESTRIPE PARKING SPACE FOR SMALL CAR PARKING.
- 11. PAINT "COMPACT CARS" ON PAVEMENT
- 12. EXISTING CURB RAMP TO REMAIN.

13. REPAINT EXISTING HANDICAP ACCESS

SPACE STRIPING.

14. NEW HANDICAP PARKING SIGN WITH "VAN ACCESSIBLE" ATTACHMENT PER DETAIL AT

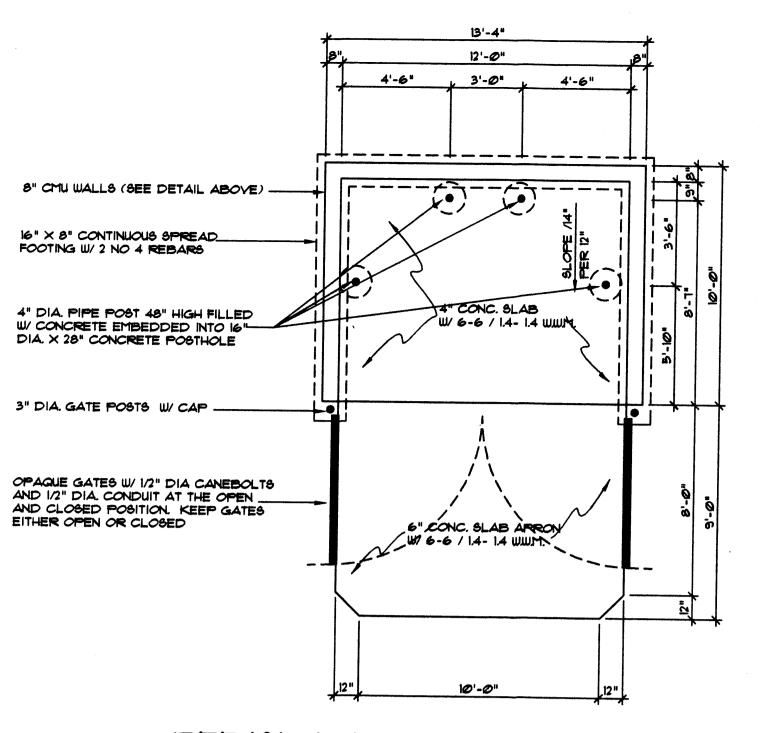
PARKING CALCULATIONS	
23 EXISTING GUEST ROOMS	23
IS NEW GUEST ROOMS	18
TOTAL GUEST ROOMS	41
REQUIRED PARKING SPACES	41
LESS 10% FOR BUS	4
REQUIRED SPACES	37
PROVIDED	37
HANDICAP SPACES	3
SMALL CAR SPACES	3

DEC 1 9 2005 HYDROLOGY SECTION

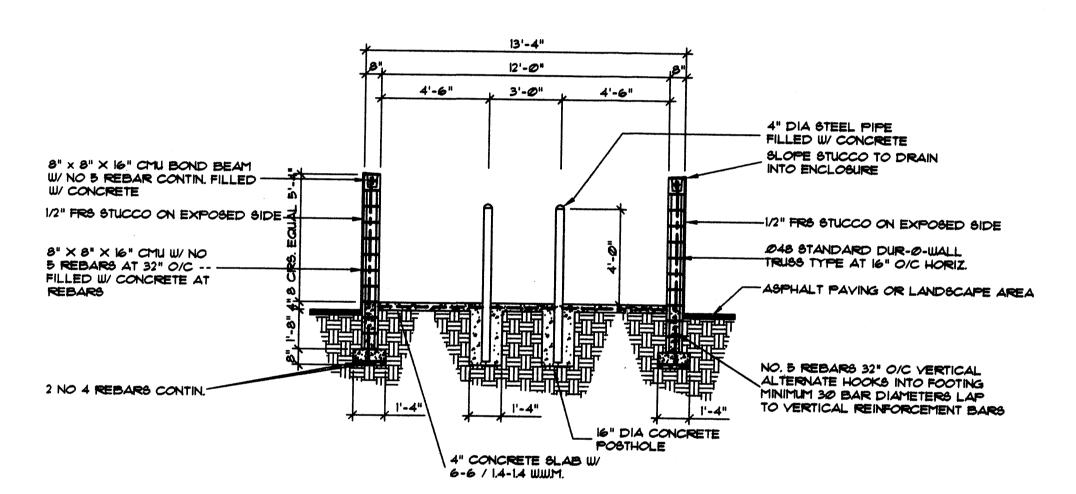
Motel San anak Albu

01.

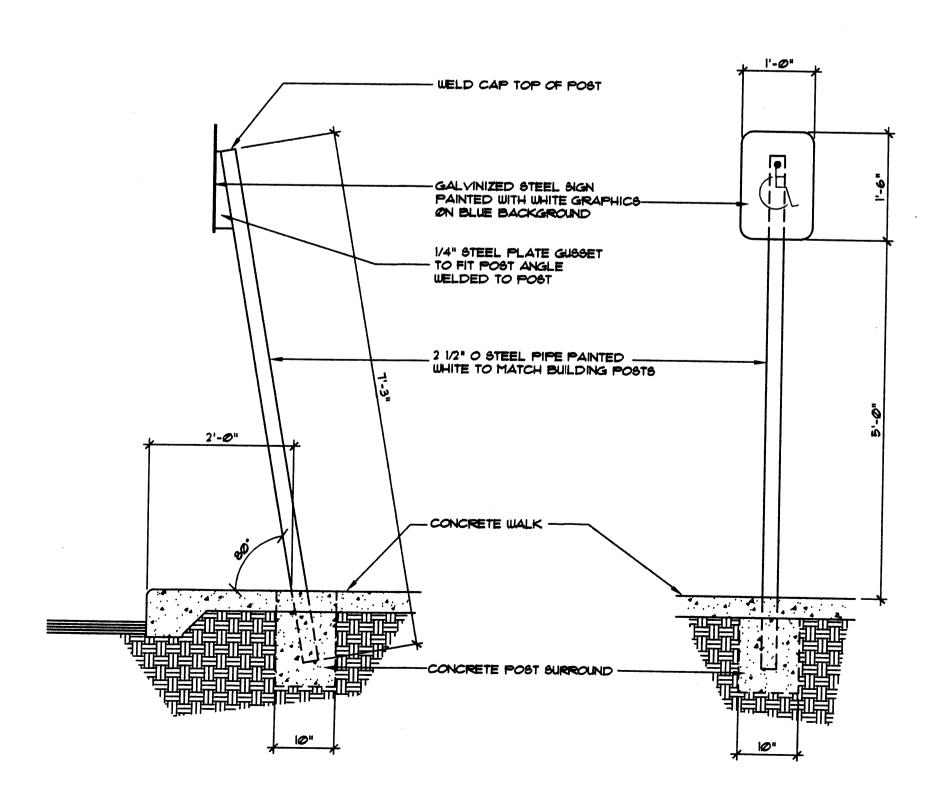
Sheet:

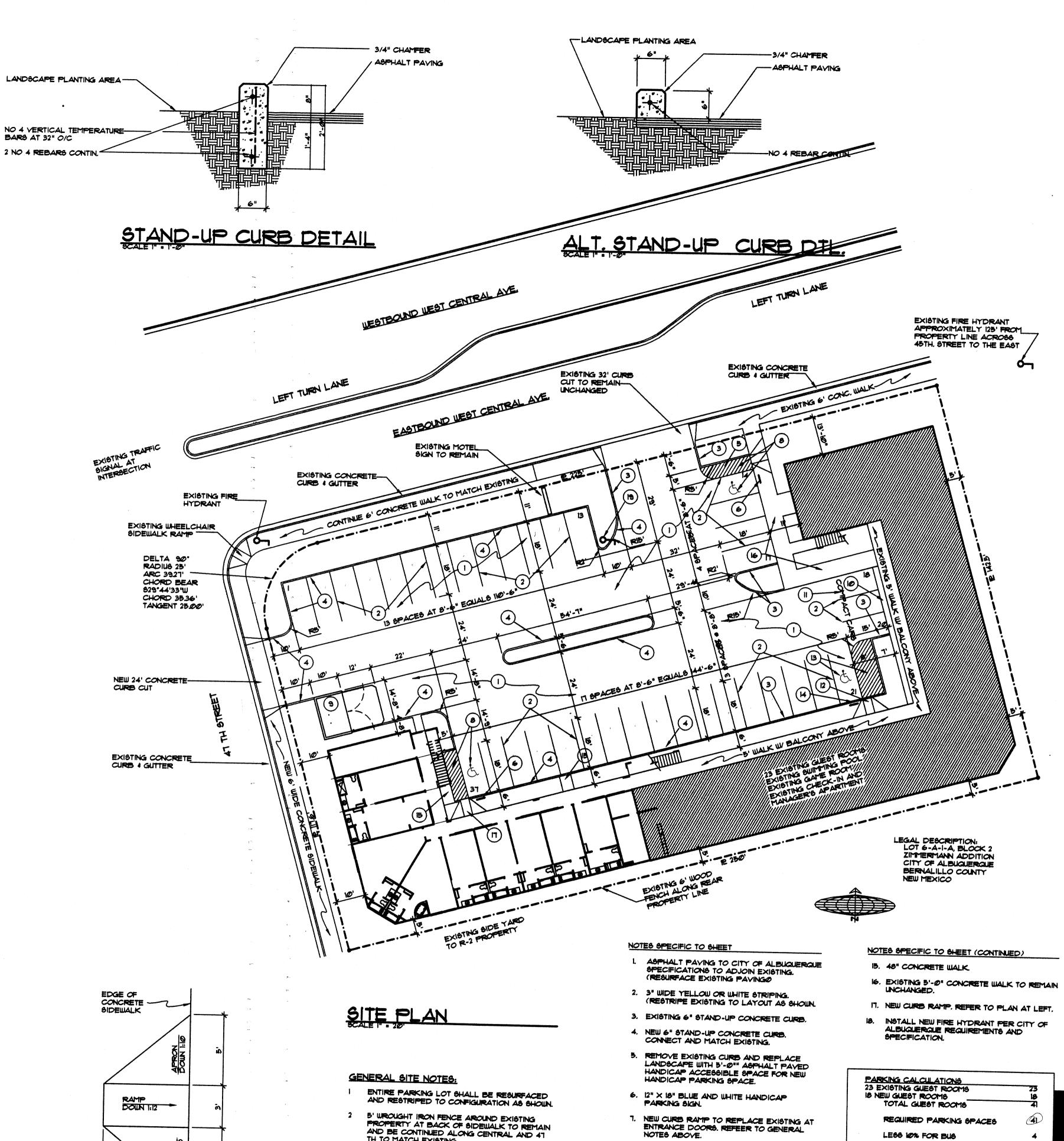


REFUSE ENCLOSURE PLAN SCALE 1/4" = 1'-0"



REFUSE ENCLOSURE SECTION SCALE 1/4" - 1'-0"





- 5' WROUGHT IRON FENCE AROUND EXISTING PROPERTY AT BACK OF SIDEWALK TO REMAIN AND BE CONTINUED ALONG CENTRAL AND 41 TH TO MATCH EXISTING.
- EXISTING PROPERTY SIGNAGE TO REMAIN.
- EXISTING HANDICAP RAMP AT FRONT DOORS TO BE REMOVED AND REPLACED WITH NEW RAMP AT NEW HANDICAP ACCESS SPACE TO THE NORTH OF EXISTING PARKING SPACES. REPLACE SIDEWALK TO MATCH EXISTING.
- 7. NEW CURB RAMP TO REPLACE EXISTING AT ENTRANCE DOORS. REFEER TO GENERAL NOTES ABOVE.
- 8. BLUE 3" WIDE HANDICAP STRIPING.
- 9. GARBAGE DUMPSTER ENCLOSURE, REFER TO DETAIL AT LEFT.

REQUIRED SPACES

HANDICAP SPACES

6MALL CAR SPACES

PROVIDED

- 10. EXISTING 24" WIDE CONCRETE CURB TO REMAIN. RESTRIPE PARKING SPACE FOR SMALL CAR PARKING.
- II. PAINT "COMPACT CARS" ON PAVEMENT.
- 12. EXISTING CURB RAMP TO REMAIN.
- 13. REPAINT EXISTING HANDICAP ACCESS SPACE STRIPING.
- 14. NEW HANDICAP PARKING SIGN WITH "VAN ACCESSIBLE" ATTACHMENT PER DETAIL AT

Motel

MEDLEY, NCARB Certifica

eak dia anak P Albuq San 18

A L

HANDICAP PARKING SIGN

PLAN AT CURB RAMP

Sheet:

LEGAL DESCRIPTION / FLOOD NOTE

Lot numbered Six—A—One—A (6—A—1—A) in Block numbered Two (2) of the ZIMMERMAN ADDITION to the City of Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on the Plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on JMy 13, 2005, in Volume

The above described property is located within Zone Community Panel No. <u>350002 0329 E</u>, dated <u>November 19, 2003</u>, and is located within a Special Flood Hazard Boundary indicated by FEMA Flood Insurance Rate Maps. Determination of Flood Hazard is by graphic plotting only.

DRAINAGE CONCEPT:

The site is located on the South side of West Central Avenue, at the SE corner of the intersection of of 47th Street. The site consists of Phase I of the Sandia Peak Motel, constructed by grading and drainage plan created by Frank Lovelady, dated November 1997. The proposed building site is graded, but undeveloped at this time. The property to the south of the site is currently developed. Central Avenue and 47th Street are paved with curb and gutter. There is a 48" RCP storm drain system in Central Avenue that turns south in 47th Street and continues south approximately 350' and then east another 500' to the Isleta Drain. There is an inlet near the ESE curb return.

The proposed construction will be the final phase of a motel on the property as shown. All runoff from the front of the motel roof and parking lot will be directed to an inlet in the NW corner of the parking lot. Runoff from the rear portion of the motel roof to the south property line will be directed to a sidewalk culvert on 47th Street. All runoff from the rear portion of the motel roof to the east property line is currently directed to a sidewalk culvert on Central Avenue that was constructed in Phase I. The motel roofs will be hip roofs with drip edges and no autters and downspouts. Offsite flows are negligible.

ORIFICE EQUATION FOR ON-SITE INLET: Q = A(Cv)(sqrt(2gh)) Q=13.95 cfs/INLET; A=113 sq.in. (0.7854 sf); Cv: 0.6 DEPTH OF WATER IN INLET FOR 100-YEAR STORM: 1.08 FEET Q CAPACITY: 3.93 cfs > 3.2 cfs FOR DIRECTED FLOWS TO PARKING LOT NO BACKWATER CONDITION

EXISTING 18" SIDEWALK CULVERT PER C.O.A. STD. DWG. 2236 INV. IN = 49.92INV. OUT = 50.054618 CENTRAL AVENUE, S. W.

7AD
7AD CONSTRUCT 12" PVC S. INV. = 48.00 N. INV. = 47.40 CONN. TO EXIST. INLET PER C.O.A. STD. DWG. NO. 2237 REMOVE EXIST, DRIVEPAD REPLACE W/ C&G AND S.W. PROPOSED MOTEL BUILDING BLOCK 2, ZIMMERMAN ADDITION FF=4951.50 CONST. 18" S.W. CULVERT LEGEND

ONSITE HYDROLOGY

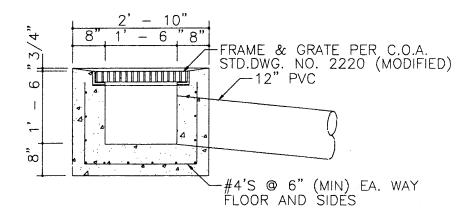
ONSITE FLOWS SHALL CONSIST OF THE EXISTING MOTEL BUILDING AND PARKING ALONG WITH THE PROPOSED DEVELOPMENT. CURRENT DEVELOPED CONDITIONS SHALL DIRECT FLOW TO THE EXISTING CONCRETE SWALE TO THE SOUTH AND EAST OF THE EXISTING BUILDING. ALL FLOWS DIRECTED OFF OF THE ROOF TO THE PARKING AREA WILL BE DIRECTED TO THE DROP INLET LOCATED IN THE PARKING LOT. THERE WILL BE NO INCREASE IN FLOWS FROM THE GRADING AND DRAINAGE PLAN PREPARED BY FRANK LOVELADY NOVEMBER 1997.

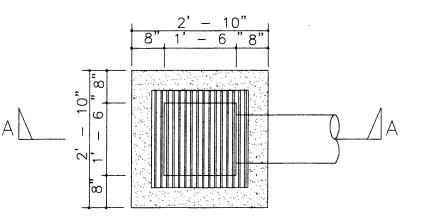
DRAINAGE DATA - SANDIA PEAK MOTEL

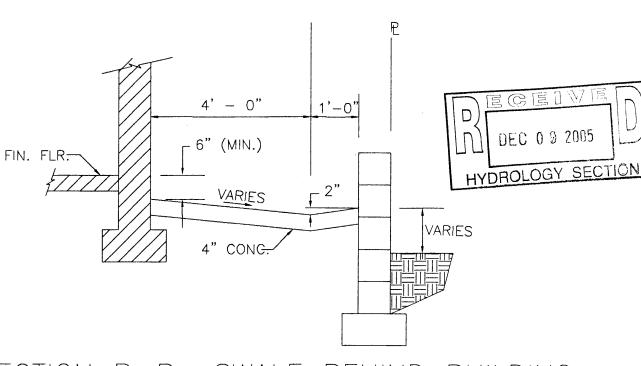
THIS SITE LIES				1	•		
Condition	Return	Treatment	Area	Precip.	Runoff	Volume	Rate
	Period	Туре	(sq. ft.)	Table A-8	Table A-9	(cu. Ft.)	(cfs)
	Table 4			(in.)	(cfs/ac)		
	(Years)						
EXISTING	100	Α	0	0.44	1.29 🗸	0.0	0.00
		В	0	0.67 ′	2.03	0.0	0.00
		С	21,338	0.99 🖍	2.87	1,760.4	1.41
		Ð	14,225	1.97 -	4.37	2,335.3	1.43
EXISTING	10	Α	0	0.08 /	0.24~	0.0	0.00
		В	0	0.22 -	0.76ノ	0.0	0.00
		С	21,338	0.44 ^	1.49 ~	782.4	0.73
		D	14,225	1.24	2.89 =	1,469.9	0.94
DEVELOPED	100	Α	0	0.44	1.29	0.0	0.00
		В	6,405	0.67	2.03	357.6	0.30
		С	0	0.99	2.87	0.0	0.00
		D	29,158	1.97	4.37	4,786.8	2.93
DEVELOPED	10	Α	0	0.08	0.24	0.0	0.00
		В	6,405	0.22	0.76	117.4	0.11
		С	0	0.44	1.49	0.0	0.00
		D	29,158	1.24	2.89	3,013.0	1.93
TOTAL (EXT)	100					4,095.7	2.8
	10					2,252.3	1.7
TOTAL (DEV)	100					5,144.4	3.2
	10					3,130.4	2.0

0.4 CFS FLOW RATE INCREASES (100-YR) = 0.4 CFS FLOW RATE INCREASES (10-YR) = 1,048.7 CU. FT. 6-HOUR RUNOFF INCREASE (100-YR) = 6-HOUR RUNOFF INCREASE (10-YR) = 878.1 CU. FT.

DISCH./VOL	BASIN "A" SOUTH	BASIN "B" EAST	BASIN "C"	TOTA
	TO VALLEY GUTTER	TO VALLEY GUTTER	TO PARKING LOT	
Q100	0.51	0.43	2.28	3.22
Q10	0.34	0.28	1.43	2.05
V100	839	698	3,607	5,14
V10	528	439	2,163	3,13







SECTION B-B SWALE BEHIND BUILDING 1/2" = 1' - 0"

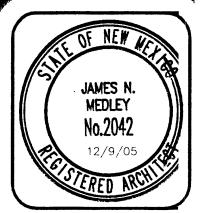
I, THOMAS D. JOHNSTON, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 17158, DO HEREBY CERTIFY THAT I INSPECTED THIS SITE ON DECEMBER 5, 2005, AND THAT, AS OF THAT DATE, THERE HAD BEEN NO RECENT ALTERATION OF GRADE OR EVIDENCE OF GRADING OPERATIONS ON THIS SITE.



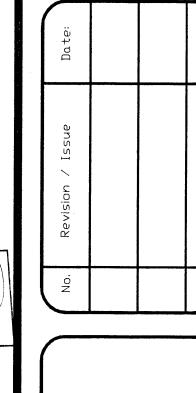


DRAINAGE AND GRADING PLAN SANDIA PEAK INN

ENGINEERING, INC. Fax: (505) 255–2887 330 LOUISIANA BLVD. NE



Motel Peak ndia anak Alb Sa



12-09-05

DESIGN: FOR: SANDIA CITY HYDROLOGY PEAK MOTEL CONSTRUCTION: CONSTRUCTION AVE. SW ENGINEER ACCEPTANCE: PROJECT NO. CONSTRUCTION ATLAS INSPECTOR SHEET 1 OF 1 K-12

1. Five foot (5') utility easement located at the rear of Lot.

BENCH MARK IS ACS STA. "2-K12-B" located at the Southeast corner of Central Avenue, S.W. and Atrisco Boulevard, S.W.

#4 REBAR AND CAP AT SOUTHEAST CORNER OF SITE; EL. 4950.76

ALL ELEVATIONS GIVEN ARE TO TOP OF PROPOSED GRADE

PROVIDED FOR THE PURPOSE OF SHOWING FLOW ROUTING.

NOTICE TO CONTRACTOR

DEPOSITED IN PUBLIC RIGHT-OF-WAY.

BY CITY OF ALBUQUERQUE WORK ORDER.

BENCH MARK

ELEV. 4954.92 (NGVD 29)

OR CONSTRUCTION.

)RAINAGE NOTES:

2. Two foot (2') private drainage and irrigation easement located at rear of Lot.

PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACES AND ARE

CONTRACTOR IS RESPONSIBLE FOR THE ABATEMENT OF SEDIMENT ONTO ADJOINING PUBLIC

ALL IMPROVEMENTS WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY MUST BE CONSTRUCTED

RIGHTS-OF-WAY DURING CONSTRUCTION AND FOR THE REMOVAL OF ANY SEDIMENT

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY GRADING

NOTICE TO CONTRACTORS

 An excavation/barricade permit will be required before beginning any work within the City
of Albuquerque Right—of—way. An approved copy of these plans must be submitted at
the time of application for these permits. INV. IN = 49.05INV. OUT = 48.92 All work detailed on these plans to be done, except as otherwise stated or provided hereon, will be constructed in accordance with "City of Albuquerque Interim Standard Specification for Public Works Construction, 1986", latest revision. 3. Two working days prior to any excavation, the contractor must contact Line Locating Service, 260–1990, for location of existing utilities. 4. Prior to construction, the contractor will excavate and verify the horizontal and vertical locations of all construction. Should a conflict exist, the contractor will notify the Construction Engineer so that the conflict can be resolved with a minimum amount of delay. 5. The contractor will be responsible for performing soil density tests as required by the City of Albuquerque. Owner shall be responsible for maintenance of sidewalk culverts and shall ensure proper operation of culverts at all times. APPROVALS FOR NAME DATE TITLE OF PROJECT 4618 CENTRAL

1 INCH = 20 FEET

SCALE:

CONSTRUCT INLET GRATE = 49.50

INV. = 48.00

SEE DETAIL THIS FL 49.83

PER C.O.A. STD. DWG. 2236

 PP POWER POLE △ ANCH ANCHOR

FLOW LINE TOP OF CONCRETE FLOW LINE TSW TOP OF SIDEWALK RIM OF MANHOLE

⋈ w√ WATER VALVE

O WM WATER METER

A FH FIRE HYDRANT

MH SANITARY SEWER MANHOLE

☑ TS TRAFFIC SIGNAL / BOX

CONCRETE BLOCK WALL

EXISTING INDEX CONTOURS @ 5 FT. INTERVALS - EXISTING CONTOURS @ 1 FT. INTERVALS

PROPOSED SPOT ELEVATION

-56- PROPOSED CONTOURS @ 1.0' INTERVALS

◆ SPOT ELEVATION

EA EDGE OF ASPHALT

BSW BACK OF SIDEWALK

CHAIN LINK FENCE

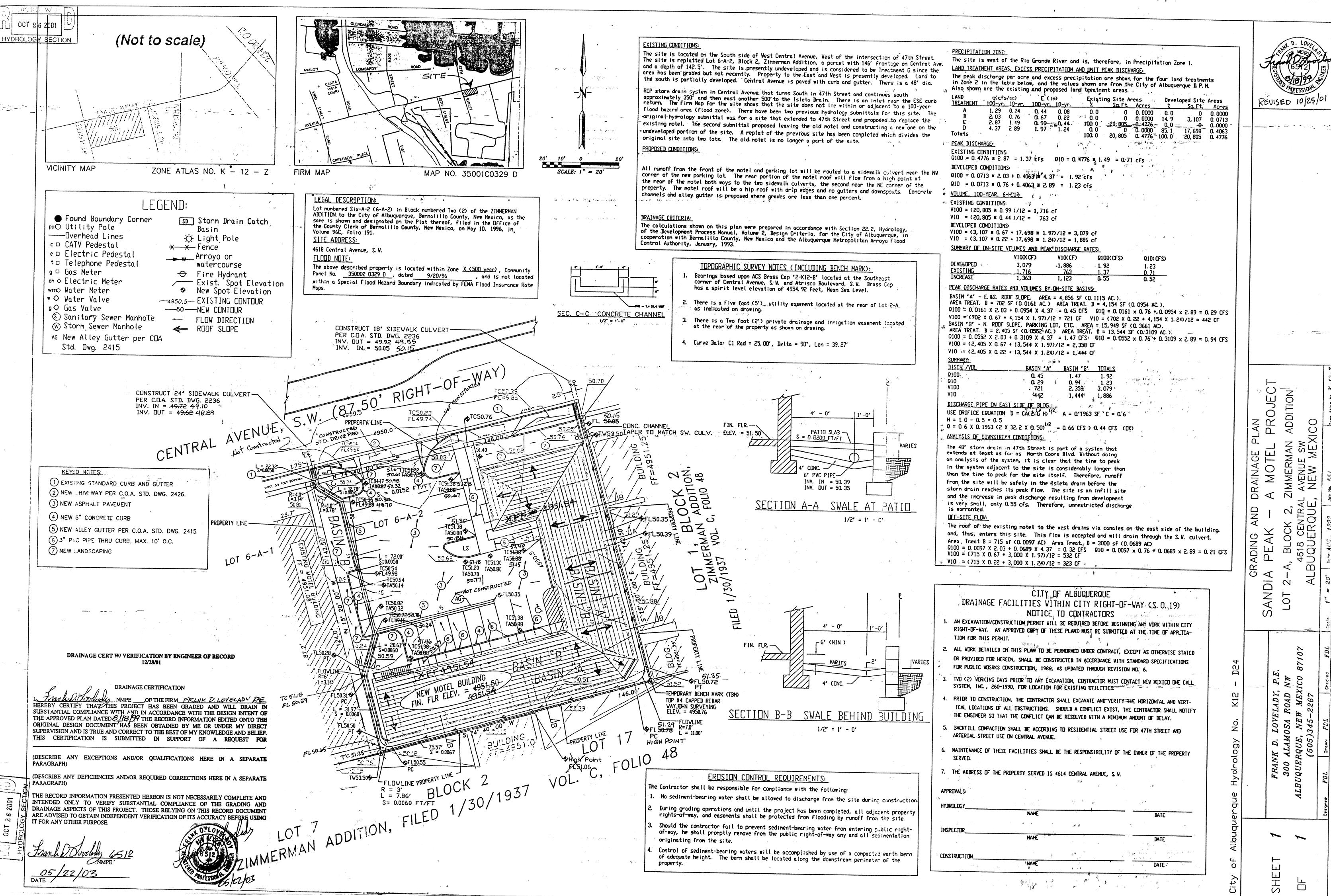
FL FLOWLINE

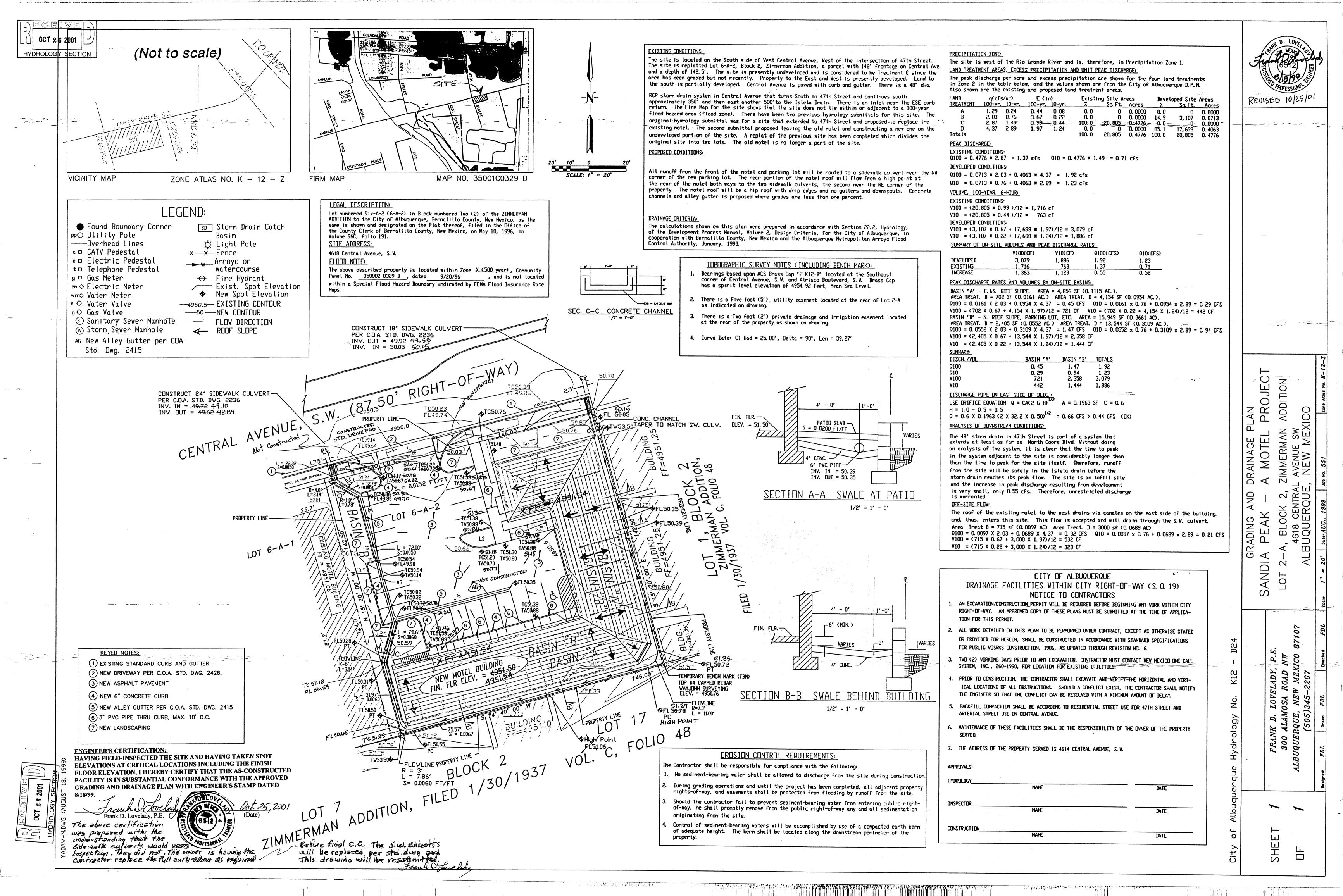
TO TOP OF CURB / CONCRETE

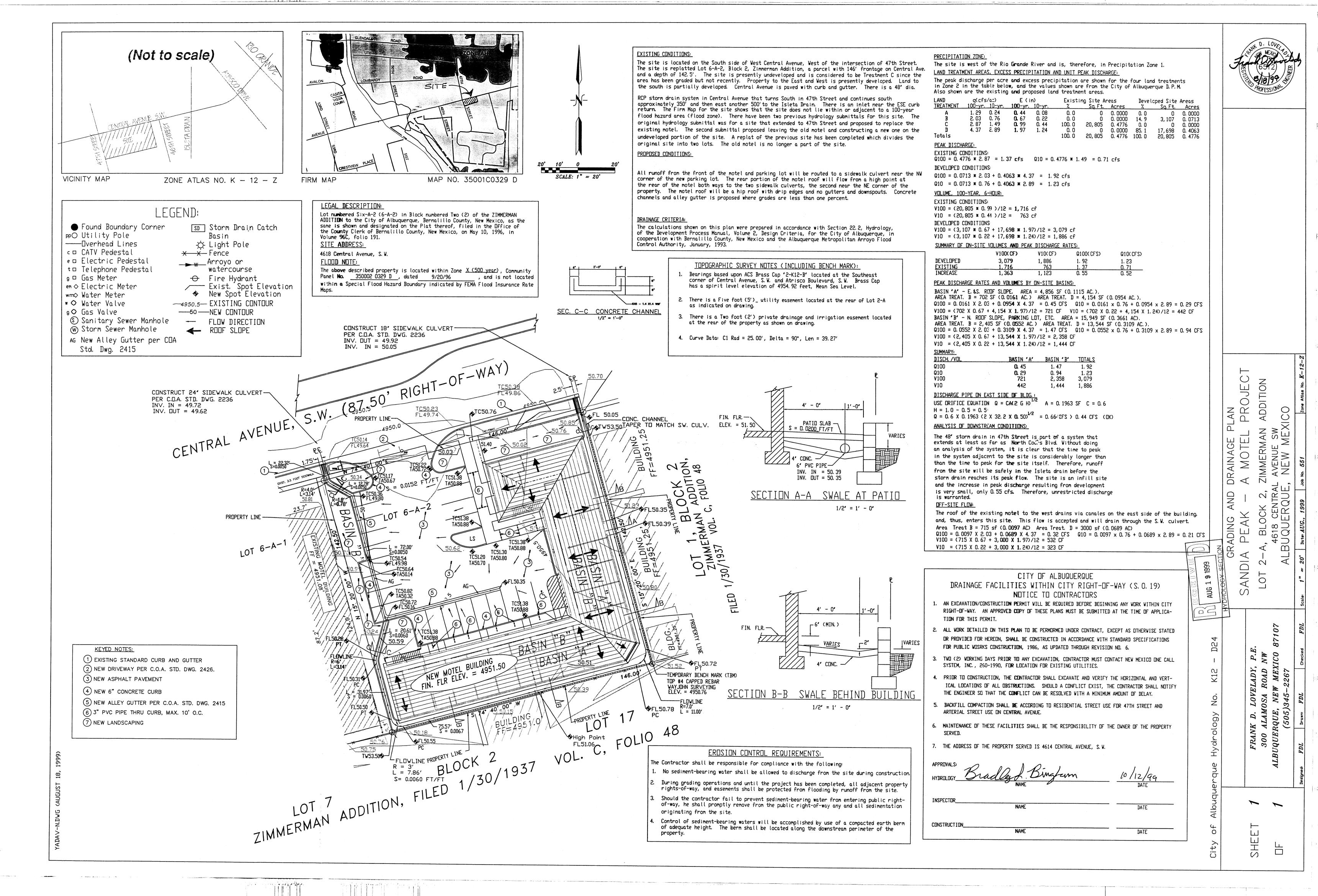
OVERHEAD POWER LINE

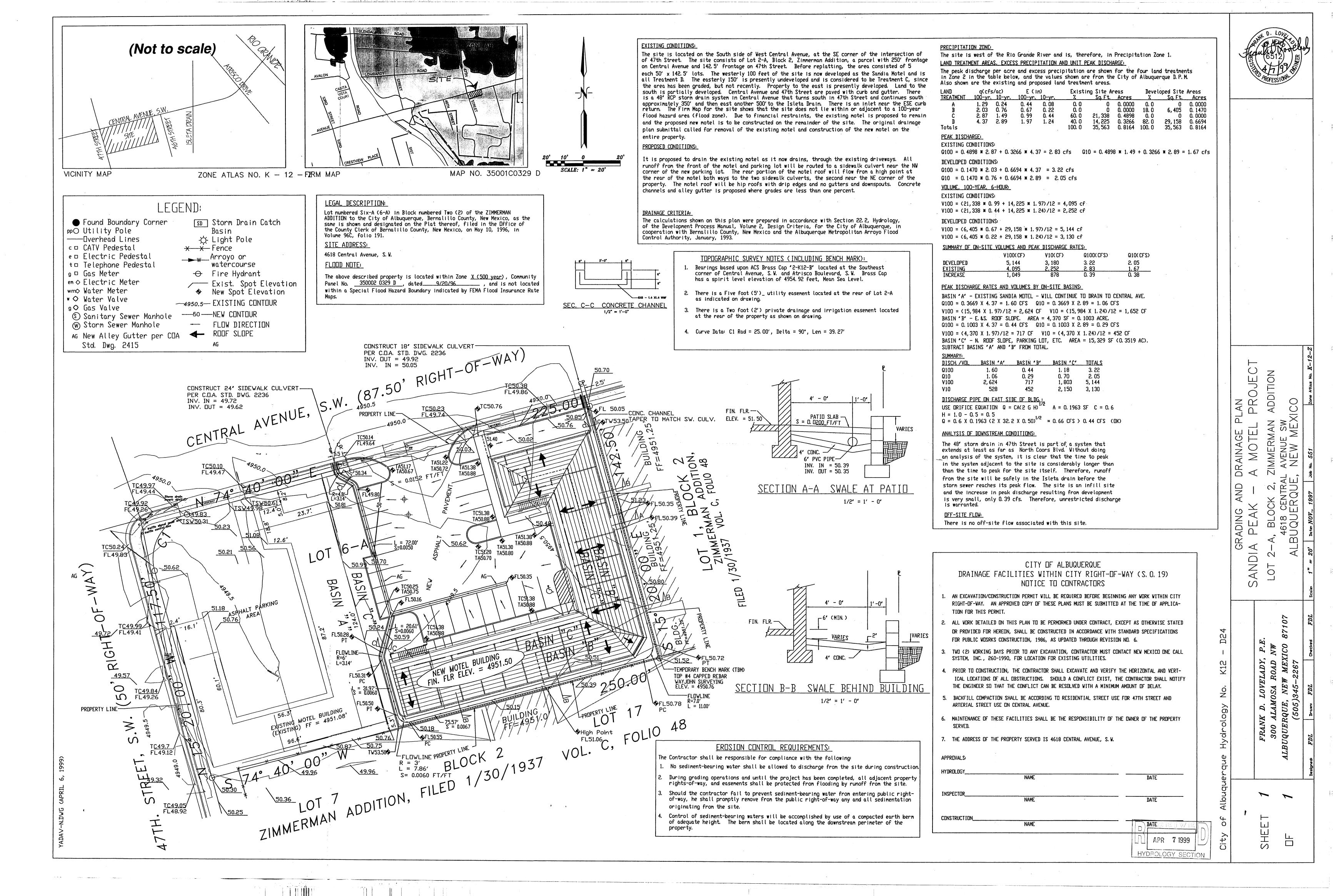
UNLESS OTHERWISE INDICATED, SPOT ELEVATIONS ARE TO ASPHALT SURFACE

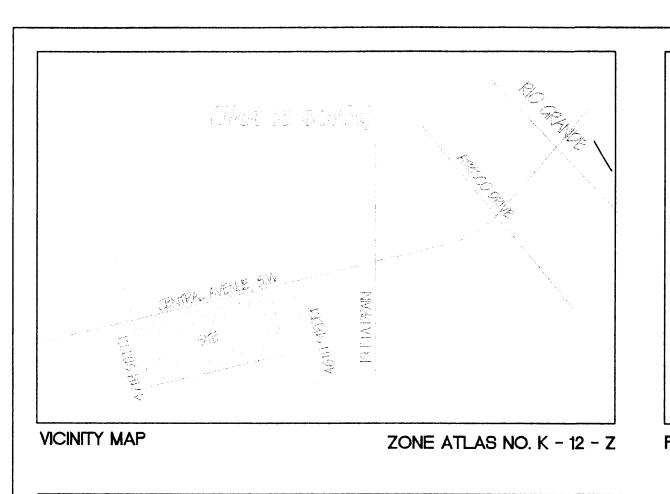
ALBUQUERQUE, NM 87108

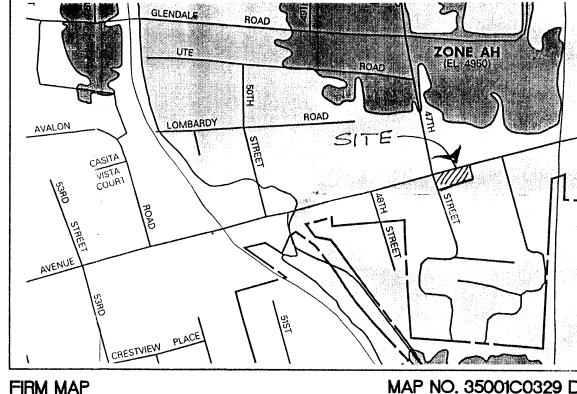












MAP NO. 35001C0329 D

SCALE: 1" = 20"

Lot numbered Six-A (6-A) in Block numbered Two (2) of the ZIMMERMAN same is shown and designated on the Plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on May 10, 1996, in

FLOOD NOTE:

The above described property is located within Zone , Community Panel No. 350002 0329 D , dated X (500 venal) is not located within a Special Flood Hazard Boundary implifying toped by FEMA Flood Insurance Rate

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, in

cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arrovo Flood

EXISTING CONDITIONS:

PROPOSED CONDITIONS:

DRAINAGE CRITERIA:

flood hazard area (flood zone).

and no gutters and downspouts.

Control Authority, January, 1993.

ADDITION,

0

101

193

30

TOP #4 CAPPED REBAR

WAYJOHN SURVEYING

ELEV. = 4950.76

MERMAN

N

0

0

- 1. Bearings based upon ACS Brass Cap "2-K12-B" located at the Southeast corner of Central Avenue, S.W. and Atrisco Boulevard, S.W. Brass Cap
- 2. There is a Five foot (5')_ utility easement located at the rear of Lot 2-A
- 3. There is a Two foot (2') private drainage and irrigation easement located
- 4. Curve Data: C1 Rad = 25.00', Delta = 90°, Len = 39.27'

The site is located on the South side of West Central Avenue, at the SE corner of the intersection of

on Central Avenue and 142.5' frontage on 47th Street. Before replatting, the area consisted of 5 each $50' \times 142.5'$ lots. The westerly 100 feet of the site is now developed as the Sandia Motel and is

of 47th Street. The site consists of Lot 2-A, Block 2, Zimmerman Addition, a parcel with 250' frontage

all Treatment D. The easterly 150' is presently undeveloped and is considered to be Treatment C, since

the area has been graded, but not recently. Property to the east is presently developed. Land to the south is partially developed. Central Avenue and 47th Street are paved with curb and gutter. There

is a 48' RCP storm drain system in Central Avenue that turns south in 47th Street and continues south

approximately 350' and then east another 500'to the Isleta Drain. There is an inlet near the ESE curb

return. The Firm Map for the site shows that the site does not lie within or adjacent to a 100-year

It is proposed to construct a motel on the property as shown. All runoff from the front of the motel

roof and parking lot will be directed to an inlet in the NW corner of the parking lot. Runoff from

the rear portion of the motel roof to the south property line will be directed to a sidewalk culvert

on 47th Street. All runoff from the rear portion of the motel roof to the east property line will be directed to a sidewalk culvert on Central Avenue. The motel roofs will be hip roofs with drip edges

TOPOGRAPHIC SURVEY NOTES (INCLUDING BENCH MARK):

- has a spirit level elevation of 4954.92 feet, Mean Sea Level.
- as indicated on drawing.
- at the rear of the property as shown on drawing.

FRAME & GRATE PER C.D.A. TD.DWG. NO. 2220 (MODIFIED) DISCHARGE PIPE FROM PARKING LOT INLET TO STREET INLET USE DRIFICE EQUATION $0 = CA(2 G H)^{1/2}$ A = 0.7854 SF C = 0.6H = 1.58 - 0.5 = 1.08 $Q = 0.6 \times 0.7854 (2 \times 32.2 \times 1.08)^{1/2} = 3.93 \text{ CFS} > 2.28 \text{ CFS} (DK)$ ANALYSIS OF DOWNSTREAM CONDITIONS: -#4'S @ 6" (MIN) EA. WAY The 48' storm drain in 47th Street is part of a system that FLOOR AND SIDES extends at least as far as North Coors Blvd. Without doing

1/2" = 1' - 0"

4' - 0"

-6" (MIN.)

SECTION B-B SWALE BEHIND BUILDING

1/2" = 1' - 0"

OFF-SITE FLOW: There is no off-site flow associated with this site.

PRECIPITATION ZONE:

Totals

PEAK DISCHARGE:

EXISTING CONDITIONS:

DEVELOPED CONDITIONS:

EXISTING CONDITIONS:

DEVELOPED CONDITIONS:

FOR BASINS 'A' AND 'B'.

is warranted.

0.51

0.34

528

VOLUME, 100-YEAR, 6-HOUR:

The site is west of the Rio Grande River and is, therefore, in Precipitation Zone 1.

The peak discharge per acre and excess precipitation are shown for the four land treatments

in Zone 2 in the table below, and the values shown are from the City of Albuquerque D.P.M.

0.0

0.0

Q100 = 0.4898 * 2.87 + 0.3266 * 4.37 = 2.83 cfs Q10 = 0.4898 * 1.49 + 0.3266 * 2.89 = 1.67 cfs

Exsisting Site Areas

Q100(CFS)

3.22

2.05

5,144

3,130

Sg.<u>Ft. Acres</u>

60.0 21,338 0.4898 0.0

0 0.0000 0.0

40.0 14,225 0.3266 82.0 29,158 0.6694

100.0 35,563 0.8164 100.0 35,563 0.8164

Q10(CFS)

2.05

0 0.0000 18.0 6,405 0.1470

Developed Site Areas

% Sq.Ft Acres

0 0,0000

LAND TREATMENT AREAS, EXCESS PRECIPITATION AND UNIT PEAK DISCHARGE:

Also shown are the existing and proposed land treatment areas.

q(cfs/ac) E (in)

1.29 0.24 0.44 0.08

2.03 0.76 0.67 0.22

2.87 1.49 0.99 0.44

4.37 2.89 1.97 1.24

Q100 = 0.1470 * 2.03 + 0.6694 * 4.37 = 3.22 cfs

Q10 = 0.1470 * 0.76 + 0.6694 * 2.89 = 2.05 cfs

V100 = (21,338 * 0.99 + 14,225 * 1.97)/12 = 4,095 cf

V100 = (21,338 * 0.44 + 14,225 * 1.24)/12 = 2,252 cf

V100 = (6,405 * 0.67 + 29,158 * 1.97)/12 = 5,144 cf

V100 = (6,405 * 0.22 + 29,158 * 1.24)/12 = 3,180 cf

SUMMARY OF ON-SITE VOLUMES AND PEAK DISCHARGE RATES:

5,144

PEAK DISCHARGE RATES AND VOLUMES BY ON-SITE BASINS:

V100(CF)

V10(CF)

3,180

2,252

BASIN 'A' - SOUTH AND WEST SIDE OF BUILDING. AREA = 5,112 SF = 0.1174 ACRE.

 $Q100 = 0.1174 \times 4.37 = 0.51 \text{ CFS}$ $Q10 = 0.1174 \times 2.89 = 0.34 \text{ CFS}$

BASIN 'B' - EAST SIDE OF BUILDING. AREA = 4,250 SF = 0.0976 ACRE.

 $Q100 = 0.0976 \times 4.37 = 0.43 \text{ CFS}$ $Q10 = 0.0.0976 \times 2.89 = 0.28 \text{ CFS}$

 $V100 = (5,112 \times 1.97)/12 = 839 \text{ CF}$ $V10 = (5,112 \times 1.24)/12 = 528 \text{ CF}$

V100 = (4,250 X 1.97)/12 = 698 CF V10 = (4,250 X 1.24)/12 = 439 CF

BASIN 'C' - NORTH SIDE OF BUILDING. OBTAINED BY SUBTRACTING THE SUMS

BASIN'A' BASIN'B' BASIN'C' TOTALS

0.28

698

439

an analysis of the system, it is clear that the time to peak

from the site will be safely in the Isleta drain before the

in the system adjacent to the site is considerably longer than

storm sewer reaches its peak flow. The site is an infill site

and the increase in peak discharge resulting from development

is very small, only 0.39 cfs. Therefore, unrestricted discharge

2.28

1.43

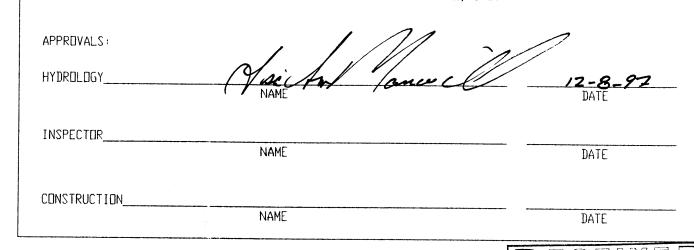
3,607

2,163

TREATMENT 100-yr. 10-yr. 100-yr. 10-yr.

CITY OF ALBUQUERQUE DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY (S.O.19) NOTICE TO CONTRACTORS

- 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 APPLICA-TION FOR THIS PERMIT
- 2. ALL WORK DETAILED ON THIS PLAN TO BE PERMORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WOSRKS CONSTRUCTION, 1986, AS UPDATED THROUGH REVISION NO. 6.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC., 260-1990, FOR LOCATION FOR EXISTING UTILITIES.
- . PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERT-ICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SD THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE FOR 47TH STREET AND ARTERIAL STREET USE DN CENTRAL AVENUE.
- . MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 7. THE ADDRESS OF THE PROPERTY SERVED IS 4618 CENTRAL AVENUE, S.W.



PLAN PROJECT

SANDIA

07 LOVELADY, P.E TOSA ROAD NW , NEW MEXICO

SHE

LEGAL DESCRIPTION: ADDITION to the City of Albuquerque, Bernalillo County, New Mexico, as the

LEGEND:

- Found Boundary Corner ppO Utility Pole Basin ---- Overhead Lines
- c CATV Pedestal e D Electric Pedestal Arroyo or to Telephone Pedestal
- 9 □ Gas Meter → Fire Hydrant em ◇ Electric Meter
- wmo Water Meter ***** ○ Water Valve 4950.5 EXISTING CONTOUR g♦ Gas Valve
- ----50 ----NEW CONTOUR Sanitary Sewer Manhole (W) Storm Sewer Manhole

GRATE = 49.50INV. = 48.00

SEE DETAIL THIS FL49.83

0

PROPERTY

49.72 HOIX

CONST. 18" S.W. CULVERT-PER C.D.A. STD. DWG. 2236

INV. IN = 49.05INV. DUT = 48.92

49.57 O

₹.

WAY

- SD Storm Drain Catch
- -Ö-Light Pole
- x-x- Fence
- watercourse
- Exist. Spot Elevation
- ◆ New Spot Elevation
- FLOW DIRECTION ROOF SLOPE

Volume 96C, folto 191.

SITE ADDRESS:

4618 Central Avenue, S.W.

CONSTRUCT 18" SIDEWALK CULVERT -

50.34

LANDSCAPING

CENTRAL AVENUE, S.W. (87.50, RIGHT-OF-WAY)

REMOVE EXIST. DRIVEPAD-REPLACE W/ C&G AND S.W. T<u>C49.97</u> CONSTRUCT 12' PVC-

S. INV. = 48.00 N. INV. = 47.40 CDNN. TD EXIST. INLET PER C.D.A. STD. DWG. ND. 2237 CONSTRUCT INLET -

TA50.13 LALLEY GUTTER PER C.D.A. STD.DWG. 2415 NEW TO ASPHALT

O 0

/T<u>C49.05</u>/ FL48.92

TISO.25

PROPERTY LINE BLOCK 2
BLOCK 2
VOL. C, FOLIO 48
ZIMMERMAN ADDITION, FILED 1/30/1937

to the second of the second of the second of

and the second of the second o

-ALLEY GUTTER PER

C.D.A. STD.DWG. 2415

originating from the site. Control of sediment-bearing waters will be accomplished by use of a compacted earth berm

EROSION CONTROL REQUIREMENTS: The Contractor shall be responsible for compliance with the following:

1. No sediment-bearing water shall be allowed to discharge from the site during construction. During grading operations and until the project has been completed, all adjacent property rights-of-way, and easements shall be protected from flooding by runoff from the site. Should the contractor fail to prevent sediment-bearing water from entering public rightof-way, he shall promptly remove from the public right-of-way any and all sedimentation

of adequate height. The berm shall be located along the downstream perimeter of the

NOV 1 4 1997 HYDROLOGY SECTION