

THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF CONSTITUTION AVE. NE AND SAN PEDRO BLVD. NE. SAID CONTROL STATION BEING MARKED BY A STANDARD A.C.S. BRASS CAP STAMPED "2-J18 1981". ELEVATION: 5258.64.

EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE/SHE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN. 1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING THIS

2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER FROM THIS SITE SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.

3. STORM WATER FROM THE ADJACENT PROPERTY (STATE OWNED SAN PEDRO CROSS OVER) SHALL BE RE DIRECTED INTO THE STATE DRAINAGE BY OTHERS. NO WATER OR SEDIMENT FROM THIS STATE R.O.W. SHALL BE DIRECTED THROUGH THIS PROJECT.

EXISTING CONDITIONS

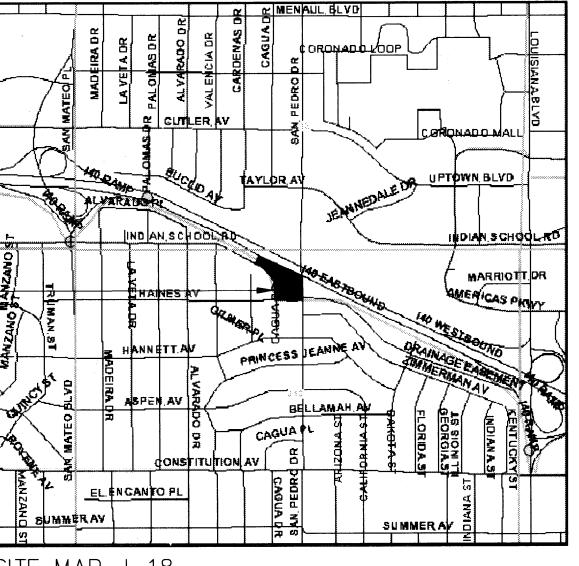
AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS .983 ACRES AND IS LOCATED WEST OF SAN PEDRO BLVD. JUST NORTH / EAST OF THE HAINES AVE. AND INDIAN SCHOOL RD. INTERSECTION. THE SITE HAS BEEN GRADED TO DRAIN FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAP NO. 35001C0352D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE. THE PROPERTY HAD BEEN GRADED TO DRAIN IN TO THE INTERSTATE 40 R.O.W. THIS WAS NEGATED BY THE STATE'S CONSTRUCTION OF A SOUND BARRIER WITH NO CONSIDERATION OF THE EXISTING DRAINAGE. SUBSEQUENT TO CONSTRUCTION OF THE WALL A RETENTION BASIN WAS BUILT AND STILL EXISTS.

## PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF ONE OFFICE BUILDING TOTALLING 19,496 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BENNETT ENGINEERING IN JULY OF 2000. ON-SITE RUN-OFF WILL TRAVEL ON INDIAN SCHOOL RD. AND INTO INLETS WHICH DRAIN INTO THE CITY SYSTEM. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED. THE SITE HAS BEEN REGRADED AND ALL BUILDING AND PARKING AREA DRAINAGE IS TO BE DISCHARGED VIA THE EXISTING CURB AND GUTTER SECTION OF INDIAN SCHOOL INTO THE CITY STORM DRAINAGE SYSTEM.

## DOWN STREAM CONDITIONS

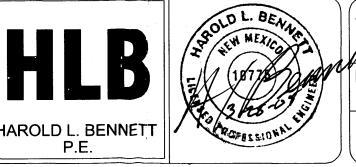
PER THE APPROVED MASTER DRAINAGE PLAN, FREE DISCHARGE HAS BEEN ALLOWED INTO A STORM WATER INLET PROVIDED BY THE ALBUQUERQUE CITY DRAINAGE PLAN



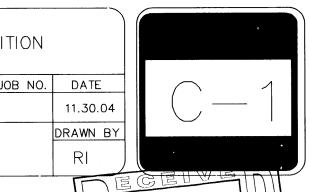
SITE MAP J-18

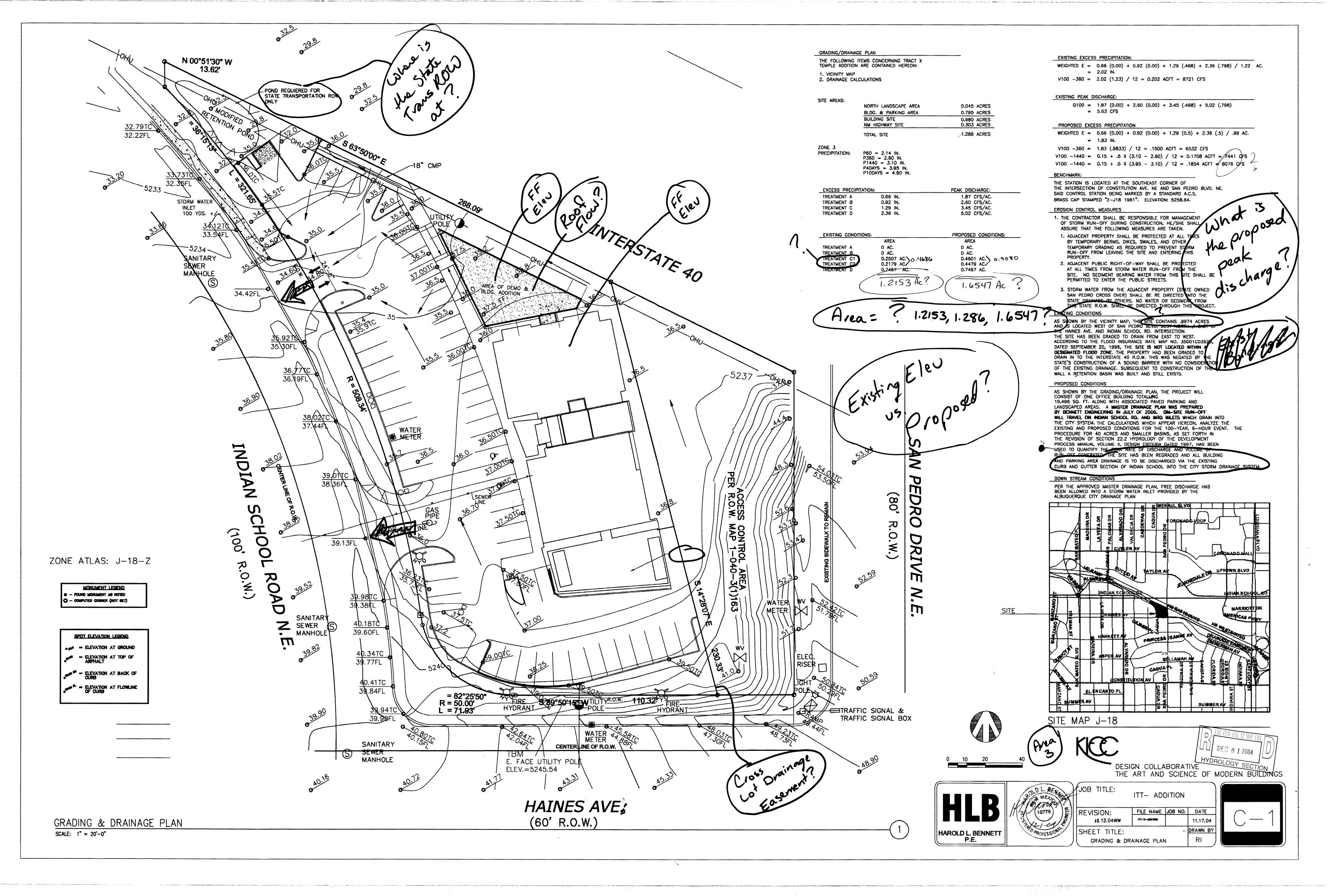


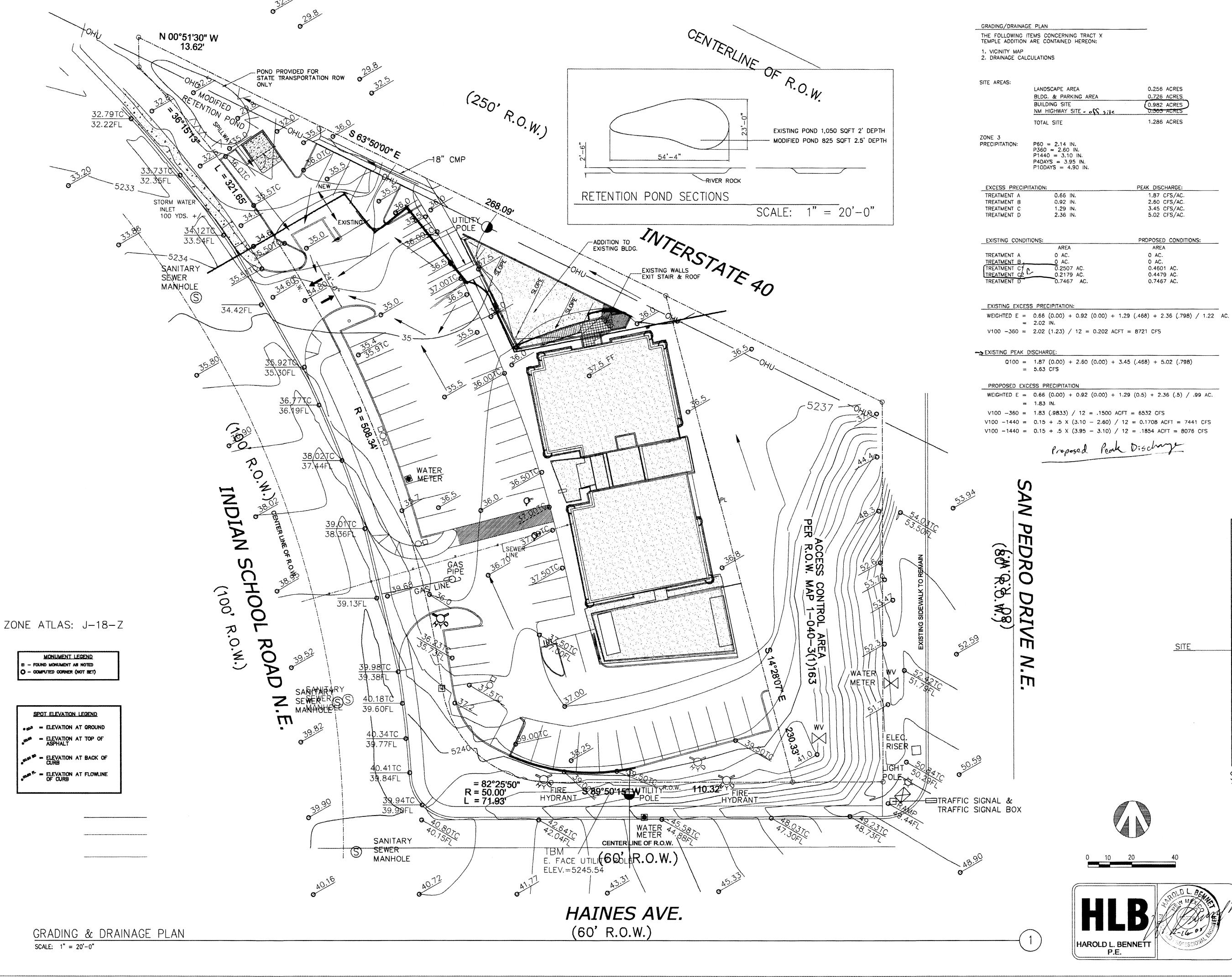
DESIGN COLLABORATIVE THE ART AND SCIENCE OF MODERN BUILDINGS



	JOB TITLE:	ITT- ADD	ITT- ADDI			
19	REVISION:	FILE NAME	JC			
	03.25.05	ITT-TI-ADDITION				
	SHEET TITLE:					
	GRADING & D	RAINAGE PLAN				







0.256 ACRES

0.726 ACRES

0.982 ACRES 0.303 ACRES

1.286 ACRES

PEAK DISCHARGE:

1.87 CFS/AC.

2.60 CFS/AC.

3.45 CFS/AC.

5.02 CFS/AC.

PROPOSED CONDITIONS:

AREA

0.4601 AC. 0.4479 AC.

0.7467 AC.

O AC.

O AC.

THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF CONSTITUTION AVE. NE AND SAN PEDRO BLVD. NE. SAID CONTROL STATION BEING MARKED BY A STANDARD A.C.S. BRASS CAP STAMPED "2-J18 1981". ELEVATION: 5258.64.

EROSION CONTROL MEASURES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE/SHE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN. 1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING THIS

2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER FROM THIS SITE SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.

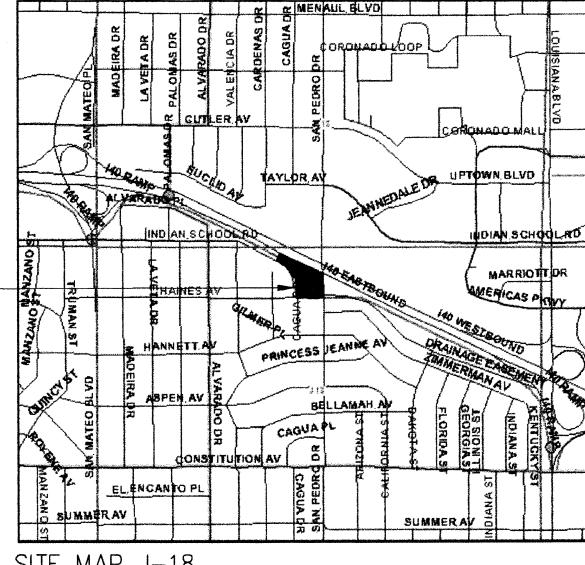
3. STORM WATER FROM THE ADJACENT PROPERTY (STATE OWNED SAN PEDRO CROSS OVER) SHALL BE RE DIRECTED INTO THE STATE DRAINAGE BY OTHERS. NO WATER OR SEDIMENT FROM THIS STATE R.O.W. SHALL BE DIRECTED THROUGH THIS PROJECT.

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS (9974 ACRES AND IS LOCATED WEST OF SAN PEDRO BLVD. JUST NORTH / EAST OF THE HAINES AVE. AND INDIAN SCHOOL RD. INTERSECTION. THE SITE HAS BEEN GRADED TO DRAIN FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAP NO. 35001C0352D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE. THE PROPERTY HAD BEEN GRADED TO DRAIN IN TO THE INTERSTATE 40 R.O.W. THIS WAS NEGATED BY THE STATE'S CONSTRUCTION OF A SOUND BARRIER WITH NO CONSIDERATION OF THE EXISTING DRAINAGE. SUBSEQUENT TO CONSTRUCTION OF THE WALL A RETENTION BASIN WAS BUILT AND STILL EXISTS.

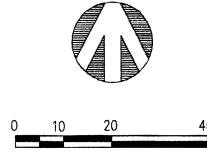
AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF ONE OFFICE BUILDING TOTALLING 19,496 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BENNETT ENGINEERING IN JULY OF 2000. ON-SITE RUN-OFF WILL TRAVEL ON INDIAN SCHOOL RD. AND INTO INLETS WHICH DRAIN INTO THE CITY SYSTEM. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II. DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED. THE SITE HAS BEEN REGRADED AND ALL BUILDING AND PARKING AREA DRAINAGE IS TO BE DISCHARGED VIA THE EXISTING CURB AND GUTTER SECTION OF INDIAN SCHOOL INTO THE CITY STORM DRAINAGE SYSTEM.

## DOWN STREAM CONDITIONS

PER THE APPROVED MASTER DRAINAGE PLAN, FREE DISCHARGE HAS BEEN ALLOWED INTO A STORM WATER INLET PROVIDED BY THE ALBUQUERQUE CITY DRAINAGE PLAN



SITE MAP J-18

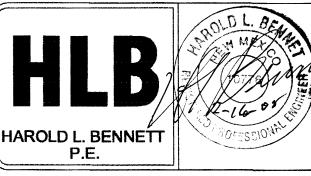




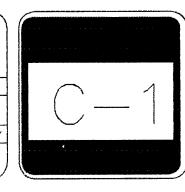
DESIGN COLLABORATIVE
THE ART AND SCIENCE OF MODERN BUILDINGS

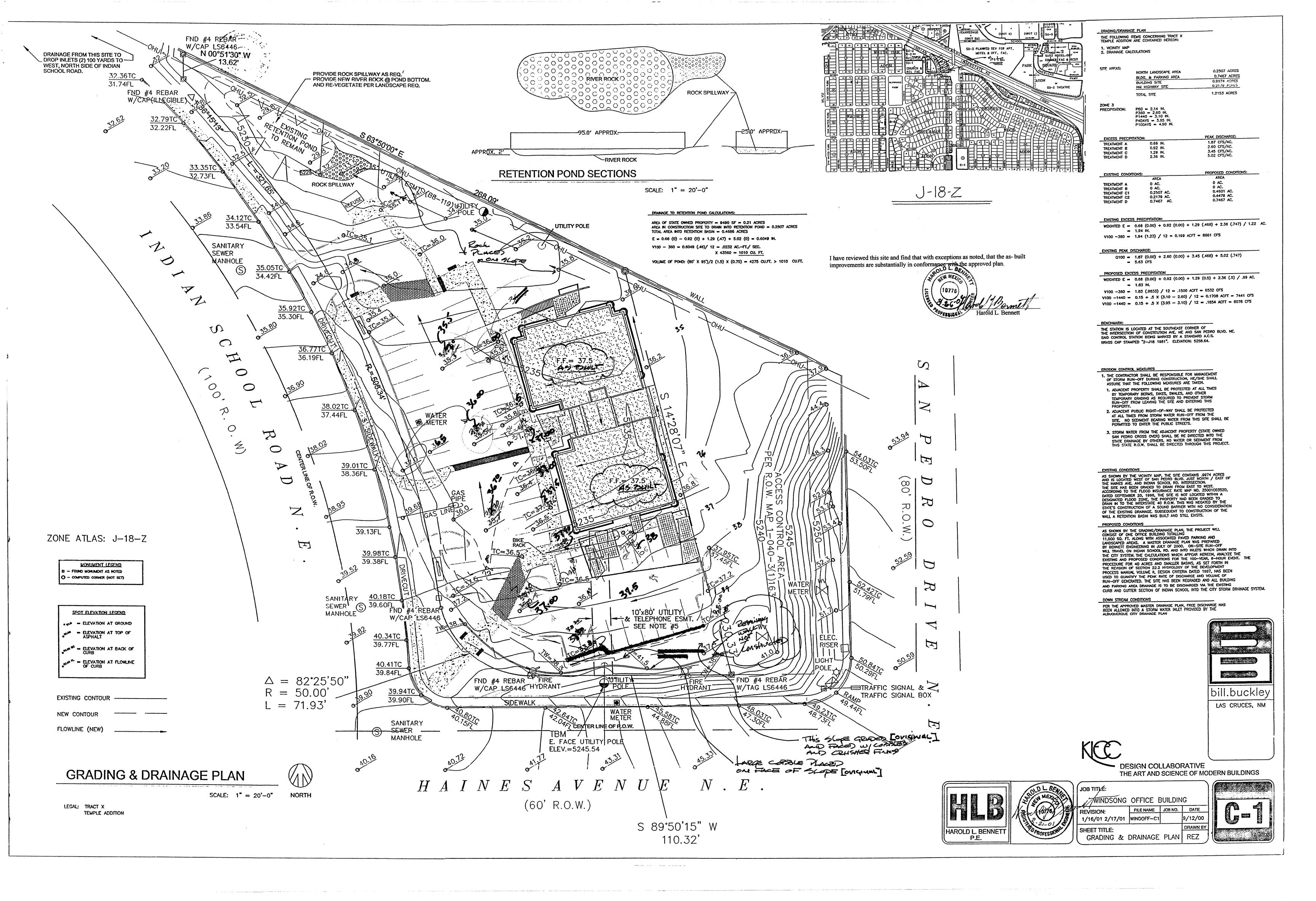
11.30.04

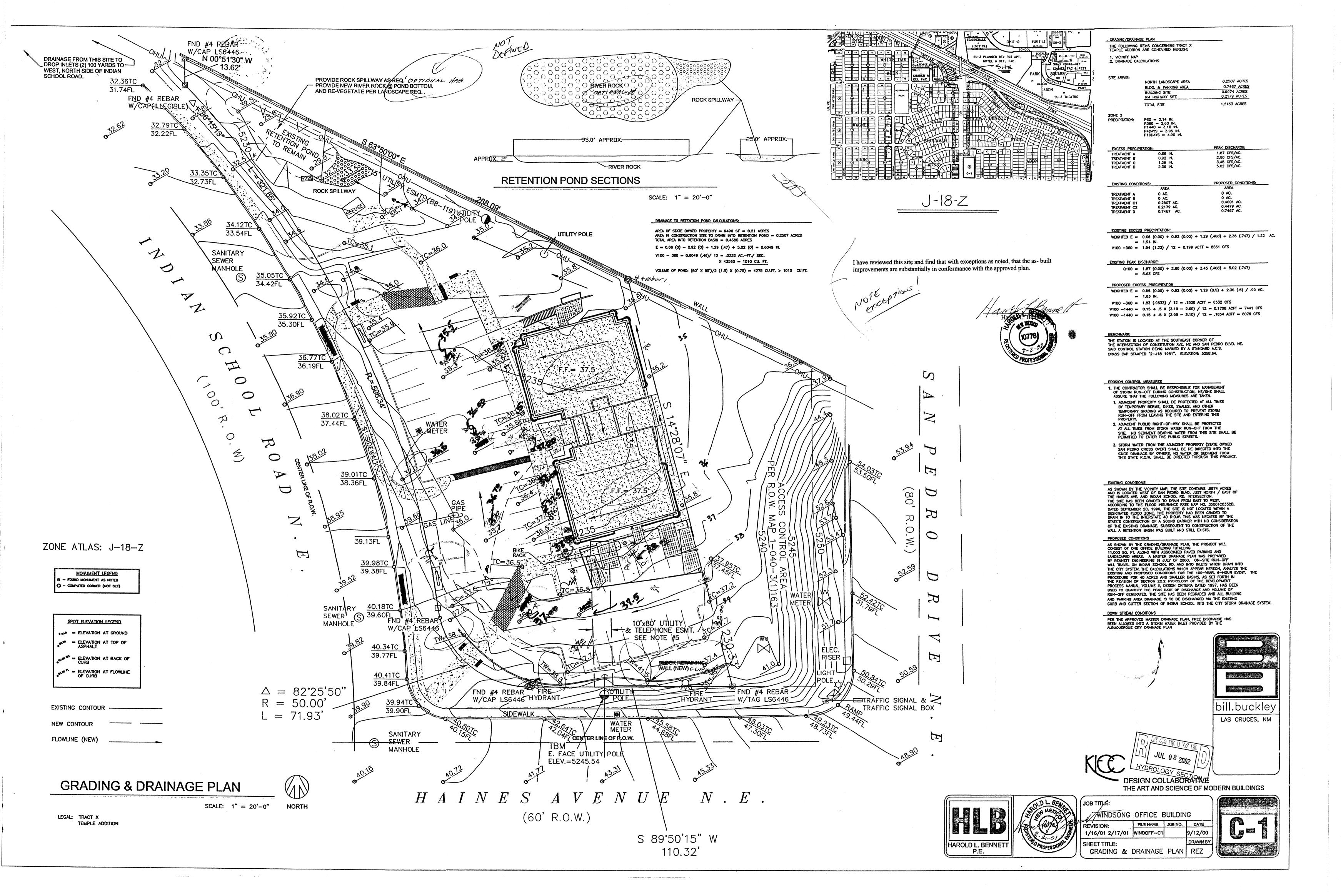
DRAWN B

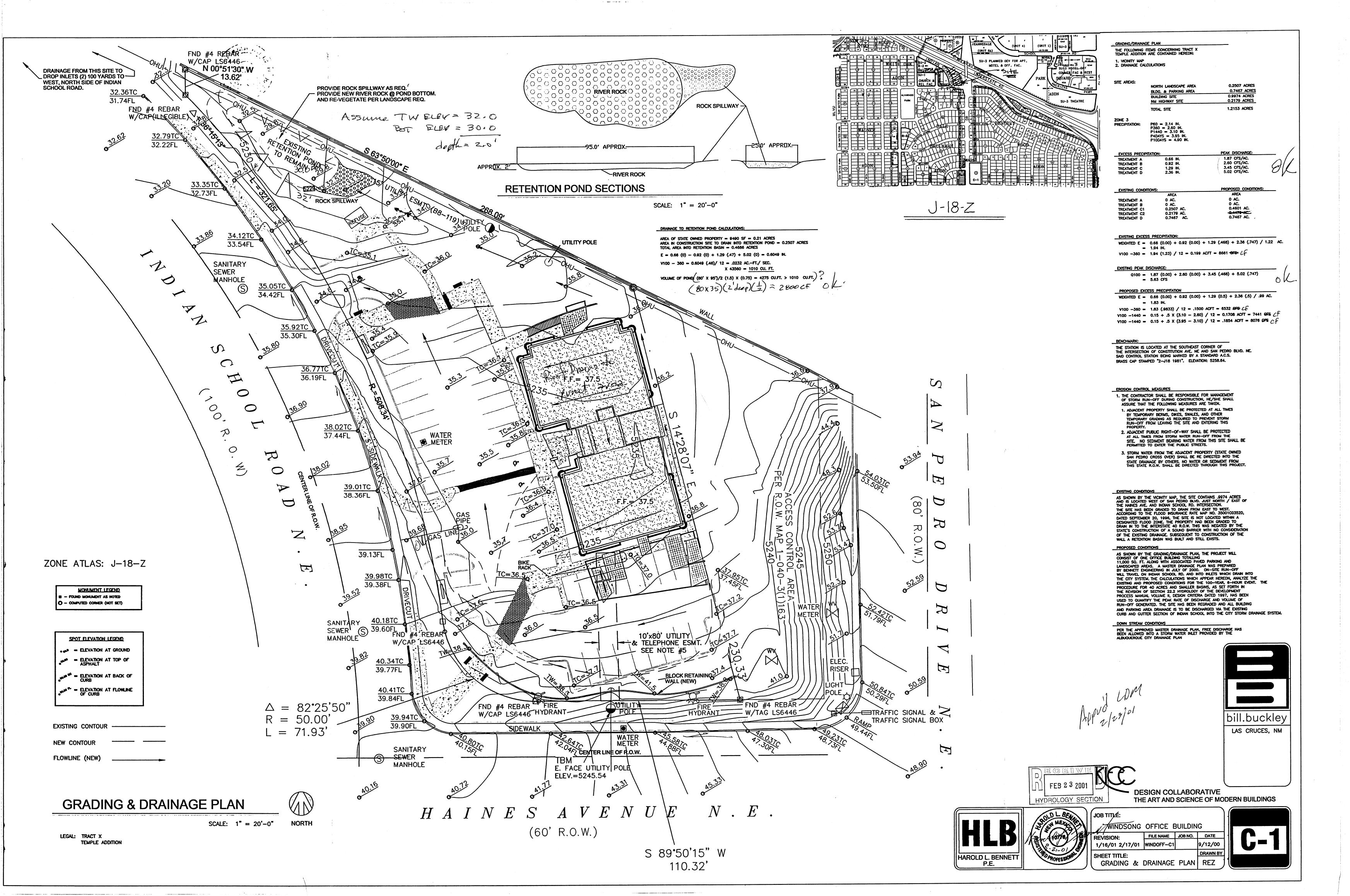


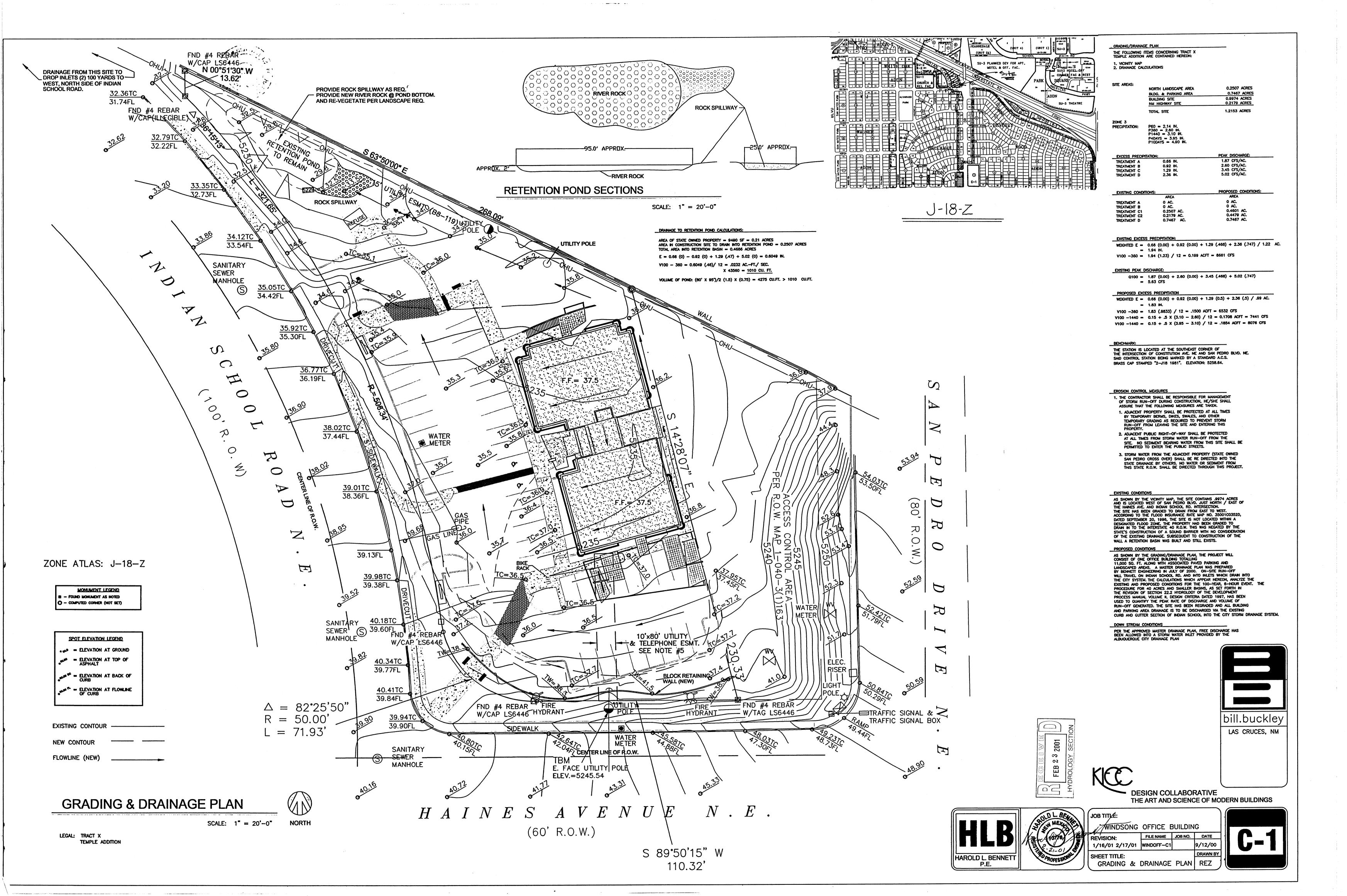
JOB TITLE:	ITT- ADDITION			
REVISION:	FILE NAME	JOB NO.	F	
02.15.05	HIÐITIQA—IT—TFI			
SHEET TITLE:			C	
GRADING & DRAINAGE PLAN				
			-	

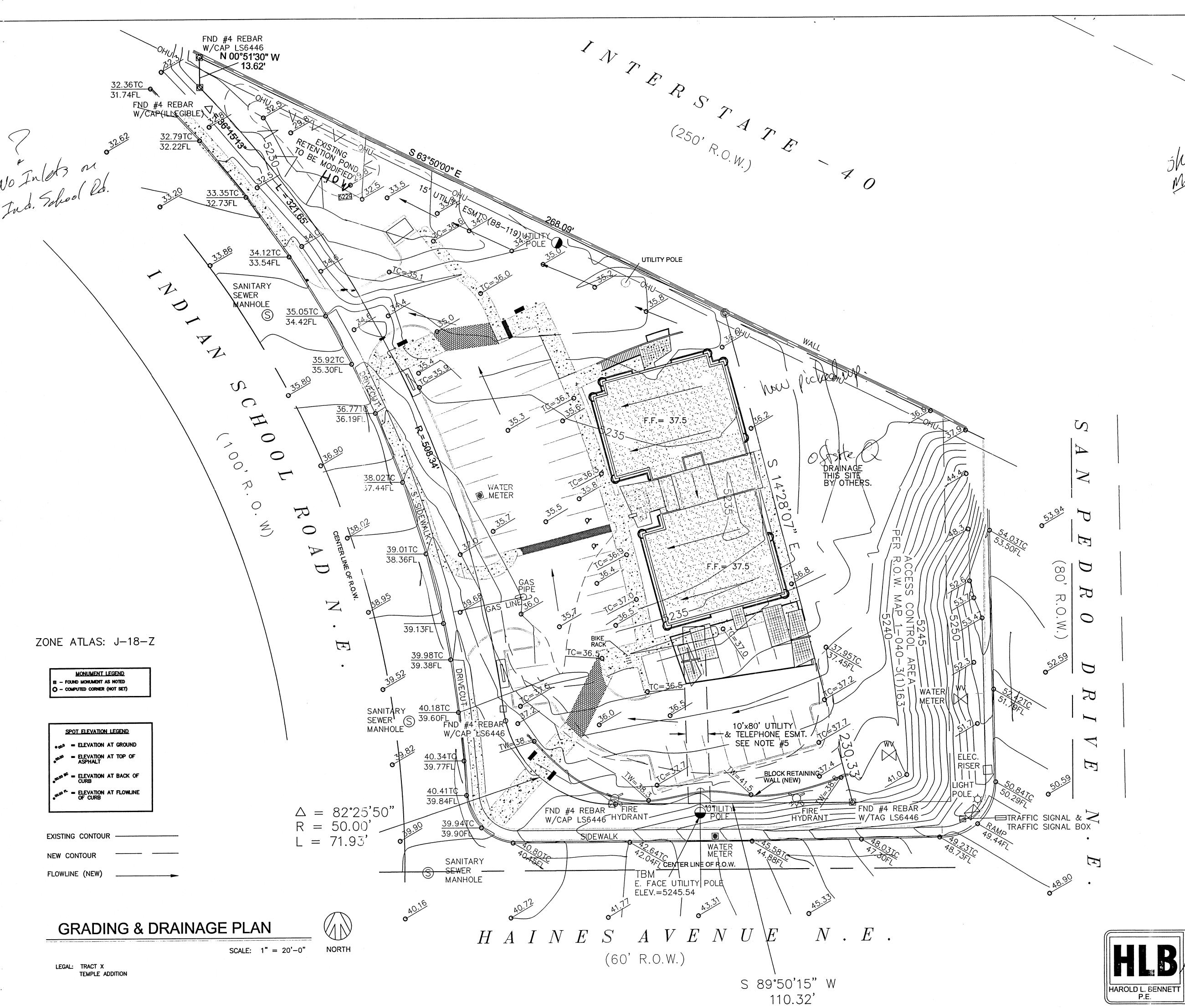












GRADING/DRAINAGE PLAN THE FOLLOWING ITEMS CONCERNING TRACT ITEMPLE ADDITION ARE CONTAINED HEREON: 1. VICINITY MAP
2. DRAINAGE CALCULATIONS

EXCESS PRECIPITATION
TREATMENT A
TREATMENT B
TREATMENT C
TREATMENT D 1.94 CFS/AC. 2.71 CFS/AC. 3.80 CFS/AC. 6.95 CFS/AC. 0.92 IN. 1.29 IN. 2.36 IN. PROPOSED CONDITIONS:

table

0.9947

EXISTING EXCESS PRECIPITATION: WEIGHTED E = 0.66 (0.00) + 0.92 (0.00) + 1.29 (5) + 2.36 (5) / .9833 AC. = 1.84 N. (, 7( .59 .40 .99 3 3 V100 -360 = 1.84 (.99) / 12 = 0.185 ACFT = 67A7 875 C. F. ó.14 = 6169

EXISTING PEAK DISCHARGE: 0100 = 1)44(0.00) + 241(0.00) + 340(0.59) + 6495(0.403)

WEIGHTED E = 0.66 (0.00) + 0.92 (0.00) + 1.29 (0.5) + 2.36 (.5) / .99 AC.

 $V100 - 360 = 1.83 (.9833) / 12 = .1500 ACFT = 6532 CFS <math>\Theta V$ V100 -1440 = 0.15 + .5 X (3.10 - 2.60) / 12 = 0.1708 ACFT = 7441 CFS V100 -1440 = 0.15 + .5 X (3.95 - 3.40) / 12 = 1854 ACFT = 8976 CFS 2.60 .206 = 8985

> THE STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF CONSTITUTION AVE. NE AND SAN PEDRO BLVD. NE. SAID CONTROL STATION BEING MARKED BY A STANDARD A.C.S.

BRASS CAP STAMPED "2-J18 1981". ELEVATION: 5258.64.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION, HE/SHE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN. 1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING THIS

2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER FROM THIS SITE SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.

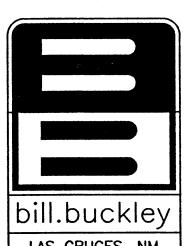
SAN PEDRO CROSS OVER) SHALL BE RE DIRECTED INTO THE STATE DRAINAGE BY OTHERS. NO WATER OR SEDIMENT FROM THIS STATE R.O.W. SHALL BE DIRECTED THROUGH THIS PROJECT.

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS .98953 ACRES AND IS LOCATED WEST OF SAN PEDRO BLVD. JUST NORTH / EAST OF THE HAINES AVE. AND INDIAN SCHOOL RD. INTERSECTION. THE SITE HAS BEEN GRADED TO DRAIN FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAP NO. 35001C0352D, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE. THE PROPERTY HAD BEEN GRADED TO DRAIN IN TO THE INTERSTATE 40 R.O.W. THIS WAS NEGATED BY THE STATE'S CONSTRUCTION OF A SOUND BARRIER WITH NO CONSIDERATION OF THE EXISTING DRAINAGE, SUBSEQUENT TO CONSTRUCTION OF THE WALL A RETENTION BASIN WAS BUILT AND STILL EXISTS.

PROPOSED CONDITIONS

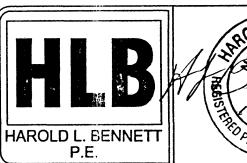
AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF ONE OFFICE BUILDING TOTALLING 11,000 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND 11,000 SQ. FT. ALONG WITH ASSOCIATED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BENNETT ENGINEERING IN JULY OF 2000. ON-SITE RUN-OFF WILL TRAVEL ON INDIAN SCHOOL RD. AND INTO INLETS WHICH DRAIN INTO THE CITY SYSTEM. THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT BROCESS MAINTAIL WOULDED IN DESIGN CRITERIA DATED, 1907 HAS REFIN PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED. THE SITE HAS BEEN REGRADED AND ALL BUILDING AND PARKING AREA DRAINAGE IS TO BE DISCHARGED VIA THE EXISTING CURB AND GUTTER SECTION OF INDIAN SCHOOL INTO THE CITY STORM DRAINAGE SYSTEM.

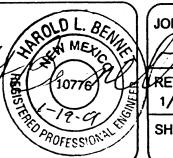
PER THE APPROVED MASTER DRAINAGE PLAN, FREE DISCHARGE HAS BEEN ALLOWED INTO A STORM WATER INLET PROVIDED BY THE ALBUQUERQUE CITY DRAINAGE PLAN



LAS CRUCES, NM

DESIGN COLLABORATIVE THE ART AND SCIENCE OF MODERN BUILDINGS





BENNE		JOB TITLE: WINDSONG	OFFICE I	BUILDIN	G
7684	И	REVISION:	FILE NAME	JOB NO.	DATE
	1/16/01	WINDOFF-C1		9/12/00	
9/3		SHEET TITLE:			DRAWN BY
\$10N.AL		GRADING &	DRAINAGE	PLAN	REZ

