HYDROLOGY

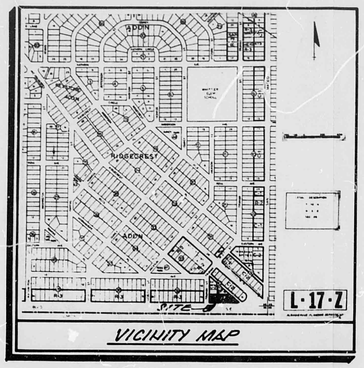
L17/D12

TWO PLANS

2 PLANS FOR

TACO BELL AT GIBSON

L17-D12



LEGEND:

T.C. = 20.00	= TOP OF CURB ELEVATION
F.E. = 20.46	= CURB FLOW LINE ELEVATION
	= EXISTING OR PROPOSED CONCRETE
22	= EXISTING CONTOUR
25	= PROPOSED CONTOUR
x x	= EXISTING FENCE
27.50	= PROPOSED SPOT ELEVATION
	= PROPOSED LIMITS OF NEW PAVING

LEGAL DESCRIPTION:

LOTS NUMBERED TWELVE (12) THROUGH SEVENTEEN (17), INCLUSIVE, IN BLOCK NUMBERED FORTY (40), OF THE RIDGECREST ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 12, 1931; (THESE LOTS ARE PRESENTLY BEING RE-PLATTED AND COMBINED INTO ONE (1) PARCEL).

GENERAL NOTES:

1.) BOUNDARY AND TOPOGRAPHY SURVEY PERFORMED BY KEITH SHREEVE, NEW MEXICO REGISTERED LAND SURVEYOR NO. 5138.

2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD AND THE AFOREMENTIONED SURVEY MAP BY KEITH SHREEVE.

3.) SEE "ARCHITECTURAL SITE PLAN" FOR PARKING AREA AND BUILDING DIMENSIONS FOR FIELD LAYOUT.

BENCH MARK:

CITY SURVEY DEPARTMENT MONUMENT STATION "G-4", LOCATED AT THE INTERSECTION OF GIBSON AVENUE S.E. AND SAN MATEO BLVD. S.E.; ELEVATION = 5317.32, (M.S.L.); PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

EROSION CONTROL MEASURES:

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

1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.

2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.

3.) THE CONTRACTOR SHALL IMMEDIATELY AND THROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

CONSTRUCTION NOTES:

1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.

2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS: SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

DRAINAGE COMMENTS:

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN HEREON:

1.) SITE GRADING AND DRAINAGE PLAN.

2.) VICINITY MAP

3.) LEGAL DESCRIPTION

4.) LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS.

5.) DRAINAGE CALCULATIONS

AS SHOWN ON THE PLAN HEREON, THE SUBJECT SITE IS LOCATED AT THE NORTHEAST INTERSECTION OF GIBSON AVENUE S.E. AND TRUMAN STREET S.E., ALBUQUERQUE, NEW MEXICO; THE SUBJECT SITE IS PRESENTLY PARTIALLY DEVELOPED.

THE PROJECT SITE, (1.) DOES NOT LIE WITHIN A FLOOD PLAIN, (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY; THE SUBJECT SITE DOES NOT ACCEPT OR CONTRIBUTE TO OFF-SITE FLOWS OF ADJACENT PROPERTIES.

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES.

DRAINAGE CALCULATIONS

I. REFERENCES:

A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOLUME 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.

B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE.

II. GENERAL INFORMATION:

A. SOIL TYPE (REF. B., PLATE 31) SOIL TYPE IS WaB, WINK FINE SANDY LOAM, 0 TO 5 PERCENT SLOPES, HYDROLOGIC SOIL GROUP "B".

B. IMPERVIOUSNESS:

AREA = 0.68 ACRES (29,679.0 SQ. FT.)
PRESENTLY UNDEVELOPED "C" = 0.40

TYPE OF SURFACE (DEVELOPED):

HARD SURFACED, (STREETS,DRIVES,WALKS)	= 0.51 ACRES = 75.0%	x (C=0.95) = .71
ROOF AREA	= 0.06 ACRES = 9.0%	x (C=0.90) = .08
LANDSCAPE AREA	= 0.12 ACRES = 18.0%	x (C=0.25) = .05
	AVERAGE (WEIGHTED) DEVELOPED "C"	=0.84

C. RAINFALL, 100-YEAR, 6-HOUR, R_6: (SEE REF.A., PLATE 22.2 D-1) R_6 = 2.3 INCHES

D. TIME OF CONCENTRATION, T_c; USE MINIMUM TIME OF CONCENTRATION OF TEN (10) MINUTES FOR A SITE THIS SIZE.

E. RAINFALL INTENSITY, I: (SEE REF.A., PLATE 22.2 D-2)

$I = R_6 \times 6.84 \times T_c^{-0.51} = 2.3 \times 6.84 \times (10)^{-0.51} = 4.86$ IN/HR

III. PEAK DISCHARGE: (Q=CIA)

UNDEVELOPED:

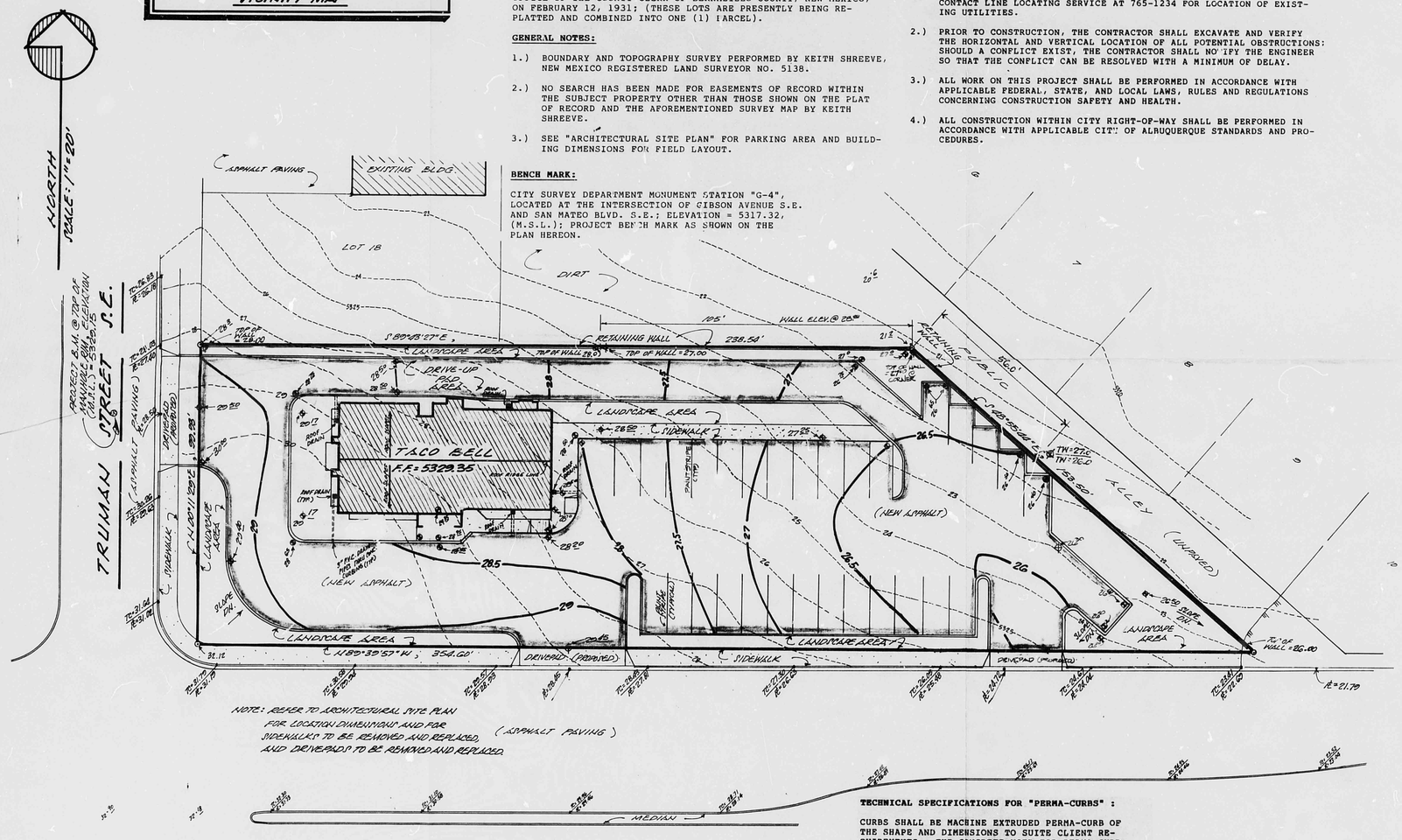
Q_{100} = CIA = 0.40 (4.86)(0.68) = 1.32 cfs

Q_{10} = 0.657 x 1.32 = 0.87 cfs

DEVELOPED:

Q_{100} = 0.84 (4.86)(0.68) = 2.78 cfs

Q_{10} = 0.657 x 2.78 = 1.83 cfs

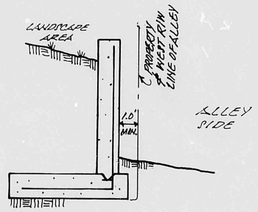


NOTE: REFER TO ARCHITECTURAL SITE PLAN FOR LOCATION DIMENSIONS AND FOR SIDEWALKS TO BE REMOVED AND REPLACED AND DRIVEWAYS TO BE REMOVED AND REPLACED.

TECHNICAL SPECIFICATIONS FOR "PERMA-CURBS" :

CURBS SHALL BE MACHINE EXTRUDED PERMA-CURB OF THE SHAPE AND DIMENSIONS TO SUITE CLIENT REQUIREMENTS. THE CONCRETE USED FOR PERMA-CURB SHALL BE A SPECIAL NO SLUMP, DESIGN MIX ATTAINING APPROXIMATELY 3,500 LB. STRENGTH IN 28 DAYS. PERMA-CURBS SHALL BE A DENSE, UNIFORM TEXTURE. COLD JOINTS SHALL BE INSTALLED EVERY 15 LINEAL FEET. PERMA-CURBS SHALL IMMEDIATELY BE SPRAYED WITH SEALER TO ATTAIN THE MAXIMUM MOISTURE RETENTION. PERMA-CURBS SHALL BE BONDED TO ASPHALT AND/OR CONCRETE SURFACES WITH EPOXY RESIN OR CSS 1 BITUMELS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS, TO ASSURE A STRONG MOISTURE PROOF BOND. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE.

"PERMA-CURB" DETAIL (NO SCALE)



RETAINING WALL DETAIL AT NORTHEAST CORNER

NOT TO SCALE

NOTE: REFER TO FOUNDATION PLAN FOR RETAINING WALL DETAILS.

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H7/D12 C-1

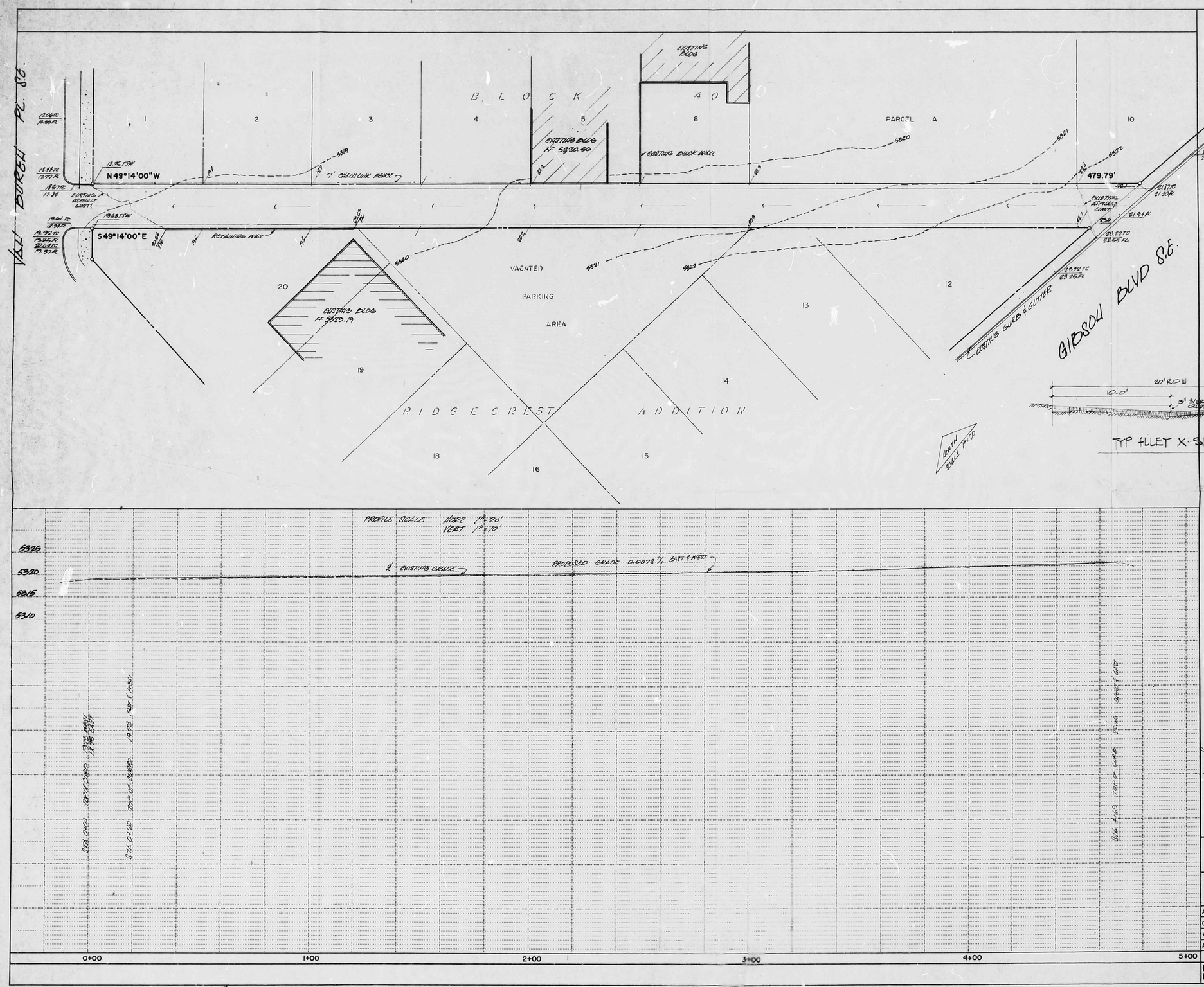
10 3-14-86 4-27-86 6-16-86

—REVISED—
A GRADING AND DRAINAGE PLAN

TACO BELL ®

GIBSON AVENUE AND TRUMAN ST. S.E.
ALBUQUERQUE, NEW MEXICO
MARCH, 1986

JUNE 16-86
REVISION: APRIL 27, 1986



RECEIVED
JUN 16 1986
HYDROLOGY SECTION

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

A. CRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

CITY BENCH MARK 18L17, ELEV 5311.26 (MSL)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

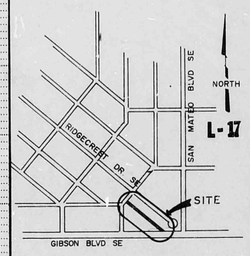
ENGINEER'S SEAL

9/4/86

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE



VICINITY MAP

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: PROPOSED ALLEY GRADES
FROM GIBSON BLVD. S.E. TO TRUMAN ST. S.E.
BLOCK 40, RIDGECREST ADDITION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO.	SHEET	OF
2916	L-17-Z	1	1

L17/D12