City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 27, 1999

James Topmiller, P.E.
Bohannan-Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PRESBYTERIAN HOSPITAL - MAIN CAMPUS (K15-D5). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY APPROVAL. ENGINEER'S STAMP DATED JULY 23, 1999.

Dear Mr. Topmiller:

Based on the information provided on your July 28, 1999 submittal, the above referenced project is apprroved for Certificate of Occupancy.

If I can be of further assistance, please feel free to call me at 924-3984.

Sincerely,

John P. Murray, P.E.
Hydrology

c: File

CITY OF
Albuquerque

Public Works Department

February 21, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Pierce Runnels
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PRESBYTERIAN HOSPITAL (K15-D5). DRAINAGE REPORT FOR FINAL PLAT AND BUILDING PERMIT APPROVALS. ENGINEER'S STAMP DATED 2-13-97.

Dear Mr. Runnels:

Based on the information provided on your February 14, 1997 submittal, City Hydrology has the following comments:

1. Show new storm drain pipe that drains the proposed Professional Building roof. Also, are you installing new lateral for the catch basins at Oak and Silver?

2. Provide an infrastructure list and a copy of the plat.

3. Your grading and drainage plans have notes regarding work in Cedar Street that are not complete. Add the correct City Project Number.

4. The flow arrows on your "PROPOSED CONDITIONS/BASIN" Drawing are confusing. It appears that the flow arrows make a circle of sorts.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

Lisa Ann Manwill, P.E.
Engineering Assoc./Hyd.

c: Andrew Garcia
File

CITY OF
Albuquerque

May 29, 1996

Martin J. Chávez, Mayor

Pierce Runnels
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PRESBYTERIAN HOSPITAL (K15-D5) CONCEPTUAL GRADING AND DRAINAGE PLAN FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED 5-6-96.

Dear Mr. Runnels:

Based on the information provided on your May 7, 1996 submittal, the above referenced project is approved for Site Development Plan for Building Permit.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

CITY OF
Albuquerque
Public Works Department

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

March 28, 1997

James Topmiller
Bohannan-Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR PRESBYTERIAN HOSPITAL (K15-D5)
REVISION DATED 3/13/97 & STAMPED RECEIVED 3/19/97

Dear Mr. Topmiller:

Based on the information provided on your March 19, 1997 resubmittal, the above referenced site is approved for Final Plat, Foundation Plan, and Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy and Financial Guarantee release the following must be submitted:

1. Engineer Certification per the DPM checklist.

2. Copy of the letter of acceptance for the Work Order items.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
Terri Martin
File

Sincerely

Bernie J. Montoya CE
Engineering Associate

1. PURPOSE

The purpose of this report is to provide a Drainage Management Plan for the proposed development of a new 8-story professional office building/parking structure on a portion of the Presbyterian Hospital main campus. the main campus is located in southeast Albuquerque, and is bounded by Central Avenue, Sycamore Street, Lead Avenue and Oak Street. The proposed building is located at the northeast corner of Cedar Street and Silver Avenue. In conjunction with the proposed building construction, the main hospital entry will be re-configured and re-graded. Cedar Street will be modified from Silver Avenue to north of Central Avenue, under a separate City Work Order project, and many of the parking areas will be upgraded.

This report and the Grading and Drainage Plans are submitted for Hydrology Division review for the purpose of obtaining final plat and building permit approval.

2. EXISTING CONDITIONS

Please refer to the Existing Conditions Photographs and the Existing Conditions/Basin Map the plates section of this report. The site is not within any identified F.E.M.A. floodplain, according tot he latest maps. The site is in precipitation Zone 2 (Section 22.2, DPM) for hydrologic analyses. The site is identified on the SCS Soil Survey Map in the Appendices.

The entire main campus is currently fully developed and is approximately 90% impervious. The existing areas north of Silver Avenue and east of Cedar Street primarily flow west and north. This is the area most affected by this project. The northern portion of this area drains to Spruce Street and Cedar Street, which convey the flows directly to Central Avenue. The southern portion drains to Cedar Street and the Private Drive (formerly Gold Avenue), and continues west to the low point in the main entry area. This runoff (approximately 31.4 cfs) primarily flows across the entry area to the emergency room road, through the parking areas and onto Central Avenue. A portion of this flow is intercepted at the Cedar Street/Private Road intersection by

existing inlets, and directed into the existing manhole (96" storm drain line) in Cedar Street. due to the poor condition of the pavement in the area of the intersection, the amount of flow actually intercepted is relatively small.

The total outflow to Central Avenue form these areas east of the main hospital (neglecting the intercepted amount) is approximately 61.2 cfs.

The areas of the main campus south of Silver Avenue primarily discharge to Lead Avenue.

3. PROPOSED CONDITIONS

Please refer to the Proposed Conditions Basin Map, the Grading / Drainage / Paving Plans, the Cedar St. Plan and Profile Sheets and the Site Plan in the Plates section of this report.

Proposed development consists of an 8-story professional office building/parking structure, the reconfiguration and re-grading of the main entry area, Cedar Street modifications (including a raised intersection at Cedar/Private Drive), demolition of the Zia Building, Spruce Apartments and a private residence, and the reconfiguration of several parking areas on the campus. The drainage management plan involves two important considerations:

1. The improvements do not increase the impervious area and, accordingly, do not increase the discharge from the site over historical conditions.

2. The amount of flow to the Cedar Street 96" storm drain is increased with a similar decrease in flow directly to Central Avenue. Since this project is at the downstream end of the system, this flow will be ahead of the peak in the 96" storm drain. By earlier introduction to the system, downstream conditions will be improved. This is recommended in the Albuquerque Master Drainage Study (AMDS) (Vol. II, p. 11). The AMDS shows additional capacity in the 96" storm drain even at peak flow (capacity = 538 cfs, Q100 = 490 cfs).

The Site Plan provides an overall view of the proposed improvements. The construction of the site improvements will be done in phases to maintain operation of the hospital and existing offices. The Grading/Drainage/Paving Plans and the Cedar Street Plan and Profile Sheets show the private and public improvements, respectively, at a scale of 1" = 20'. The Cedar Street construction will be part of a separate City of Albuquerque public work order project.

By re-grading the main entry area and creating a raised intersection at Cedar Street/Private Drive, much of the flow which is currently conveyed to Central Avenue, through the main entry area, will be intercepted and introduced (via connector pipes to the Cedar/Private Drive manhole) into the 96" storm drain in Cedar Street. As shown on the Proposed Conditions/Basin Map, approximately 25.2 cfs will be intercepted by catch basins CB1, CB2, CB3 and CB4, at the Cedar/Private Drive intersection. This will reduce the outflow to Central Avenue from 61.2 cfs to 36.0 cfs, reducing the street flow in Central.

The area occupied by the new building will discharge to a private storm drain line along the eastern side of the building which connects to catch basin CB2. Currently, this area drains to existing inlets at analysis point CB5. By implementing this change, the runoff in this private driveway will be lessened. A portion of the building will also drain to a catch basin located in Silver Avenue.

Two sidewalk culverts are proposed for the project. One is located at the southeast quadrant of Central Avenue/Cedar Street, and the other is located on the east side of Spruce Street, between Lead Avenue and Silver Avenue. Hydraulic calculations are provided in the appendix.

Upon completion of the project, an engineer's certification will be provided, indicating compliance with the approved drainage report.

4. CONCLUSION

This drainage report provides a sound drainage management plan for the proposed development at Presbyterian Hospital, and works to improve the existing runoff conditions. **With this submittal, we request approval for Building Permit and Final Plat.**

CATCH BASIN CAPACITY SUMMARY
PRESBYTERIAN HOSPITAL SITE IMPROVEMENTS

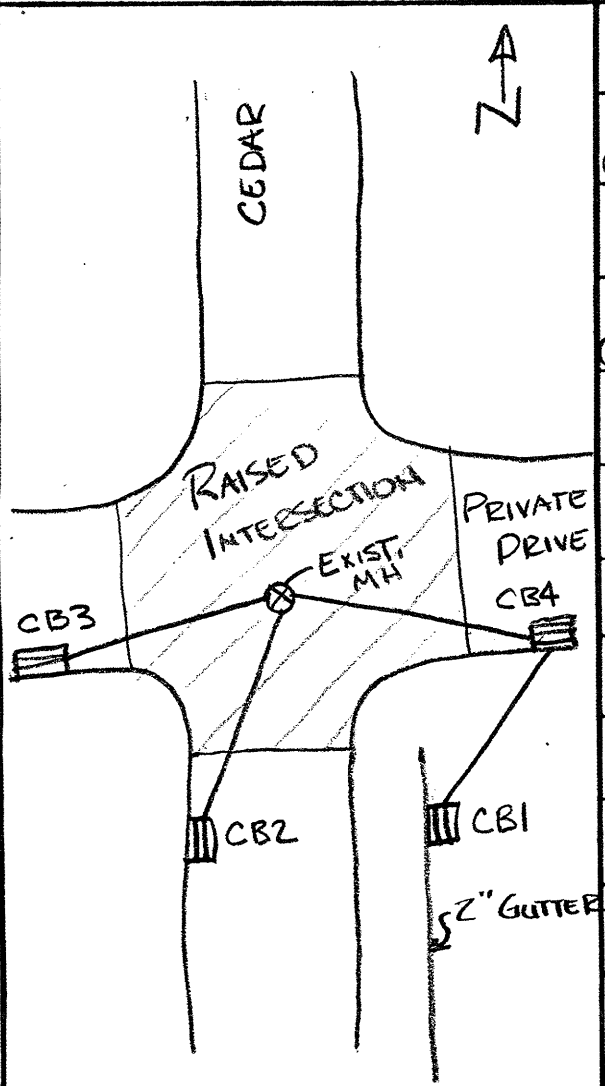
CATCH BASIN #	TYPE	# GRATES	HEAD, MAX FT.	OPEN AREA, SQ. FT.	PERIMETER, FT.	WEIR Q, CFS	ORIFICE Q, CFS	CAPACITY, CFS	PEAK FLOW, CFS
CB1	D	1	0.5	4.56	6.04	5.72	15.5	5.72	3.8
CB2	A	1	0.5	4.56	6.04	5.72	15.5	5.72	3.1
CB3	A	1	0.7	4.56	6.04	9.48	18.4	9.48	2.8
CB4	A	2	0.75	9.12	9	15.7	38	15.7	15.5

CATCH BASIN CALCULATION SHEET

Sht___of___

PROJECT _____ CALCULATED BY _____

DESIGN FREQUENCY _____ DATE _____



Sym.	Drain. Area	Q Total	Q Inter.	Cap. of ½ Street	Gutter "d"	C.B. No.	C.B. Size	Connector Pipe Head	Connector Pipe L	Connector Pipe Dia.	V Depth
CB1	CB1	3.8	3.8	h=0.5' (SUMP)		1	D				
CB2	CB2	3.1	3.1	h=0.50 (SUMP)		1	A				
CB3	CB3	2.8	2.8	h=0.70 (SUMP)		1	A				
CB4	CB4	15.5	15.5	h=0.75 (SUMP)		1	A- DOUBLE GRATE				

4-82 80 PLATE 22.3 D-10 22.3

CONNECTOR PIPES

PIPE	SLOPE	MANNINGS Q, FULL, cfs
CB1: $S = \frac{15.5 - 72.7}{38}$	= 7.37%	28.5 CFS
CB2: $S = \frac{71.94 - 66.47}{40}$	= 13.7%	38.9 CFS
CB3: $S = \frac{72.85 - 68.55}{47}$	= 9.15%	31.8 CFS
CB4: $S = \frac{74.20 - 68.97}{42}$	= 12.5%	37.1 CFS

CHECK CAPACITIES

PIPE	MANNINGS Q, FULL	ACTUAL FLOW	
CB1	28.5 CFS	3.8 CFS	✓
CB2	38.9 CFS	9.7 CFS	✓
CB3	31.8 CFS	2.8 CFS	✓
CB4	37.1 CFS	19.3 CFS	✓

CAPACITY OF SINGLE GRATE TYPE "A" IN SUMP: CB3

OVERFLOW FROM CEDAR/PRIVATE DRIVE IS NORTH ON CEDAR TO CENTRAL: $Q_{DESIGN} = Q_{100}$

ORIFICE EQUATION:

$Q = 0.6 A_{NET} \sqrt{2gh}$

$h = 0.70'$ (CB3)

$A_{NET} = \frac{35.5 \times 18.5}{144} = 4.56$ SF

$Q = 0.6(4.56)\sqrt{2(32.2)(0.7)}$

$= 18.4$ CFS

WEIR EQUATION:

$Q = 2.68 P_{NET} h^{1.5}$

$P_{NET} = \frac{2(18.5)+35.5}{12} = 6.04'$

$Q = 2.68(6.04)(.7)^{1.5}$

$= 9.48$ CFS

CAPACITY = 9.48 CFS

IF $h = 0.50'$, CB1, CB2

$Q = 15.5$ CFS

$Q = 5.72$ CFS

CAPACITY w/ 6" HEAD = 5.72 CFS

BOHANNAN-HUSTON INC.

PROJECT NAME PRESBYTERIAN HOSP SHEET ____ OF ____

PROJECT NO. ____ BY PR DATE 12/11/96

SUBJECT ____ CH'D ____ DATE ____

CAPACITY OF DOUBLE GRATE TYPE "A" IN SUMP

CB4

ORIFICE EQ'N

$Q = 0.6 A_{NET} \sqrt{2gh}$

$A_{NET} = 2(4.56) = 9.12$ SF

$h = .75'$

$Q = 38.0$ CFS

WEIR EQUATION

$Q = 2.68 P_{NET} h^{1.5}$

$P_{NET} = \frac{2(18.5) + 2(35.5)}{12} = 9.0'$

$Q = 15.7$ CFS

CAPACITY = 15.7 CFS

BOHANNAN-HUSTON INC.

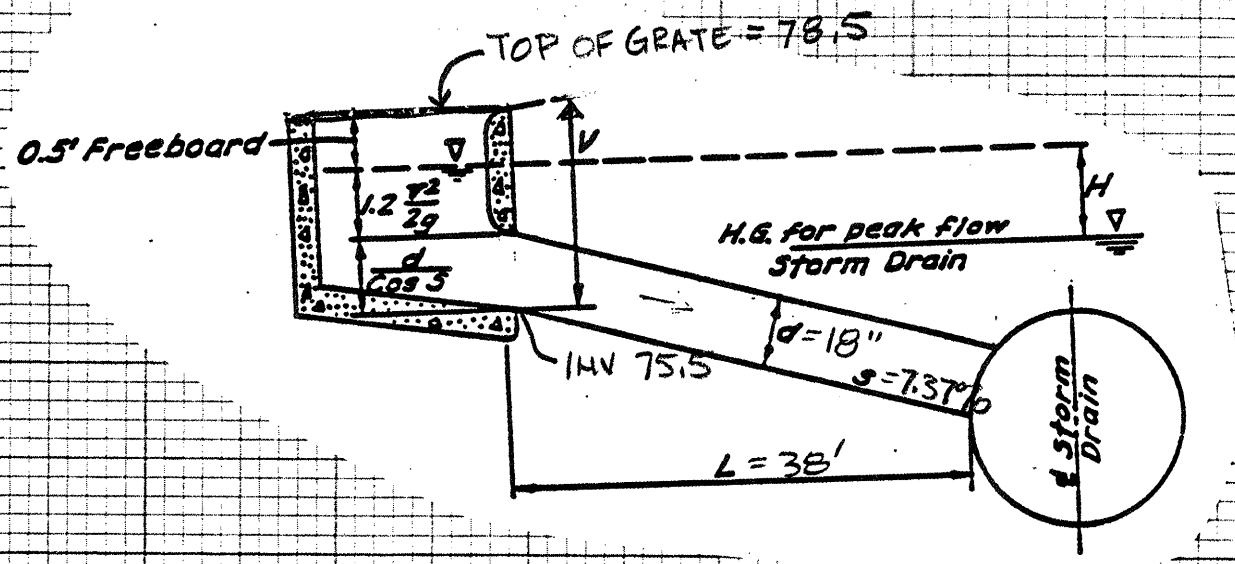
PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

CB 1

SINGLE TYPE D



$Q = 3.8$ CFS

$V = \frac{Q}{A} = 2.1$ FPS

$1.2\frac{V^2}{2g} = 0.09'$

$V_{MIN} = 0.5 + 0.09 + 1.5 = 2.09$ FT

V IS GRATE TO INVERT FOR TYPE D

DEPTH PROVIDED = 78.5 - 75.5 = 3 FT OK ✓

BOHANNAN-HUSTON INC.

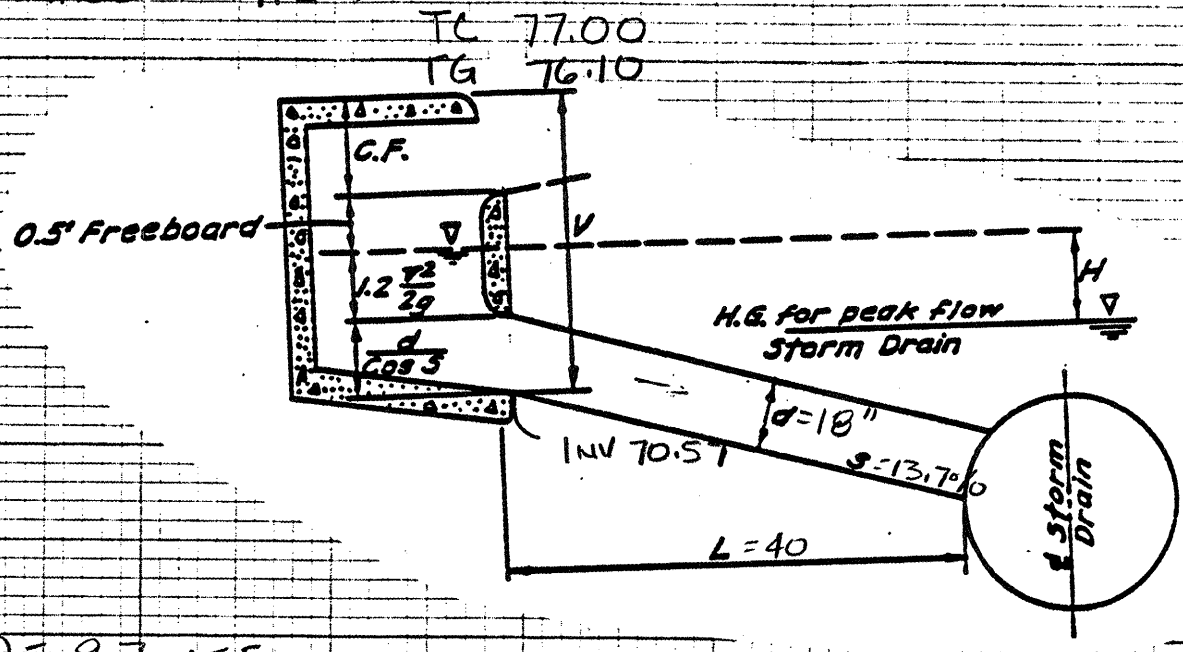
PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

CB 2

SINGLE TYPE A



$Q = 9.7$ CFS

$V = \frac{Q}{A} = 5.5$ FPS

$1.2\frac{V^2}{2g} = 0.56'$

$V_{MIN} = 1.33 + 0.56 + 1.5$

$= 3.4$ FT

V PROVIDED = 77.00 − 71.94 = 5.06 FT ✓

BOHANNAN-HUSTON INC.

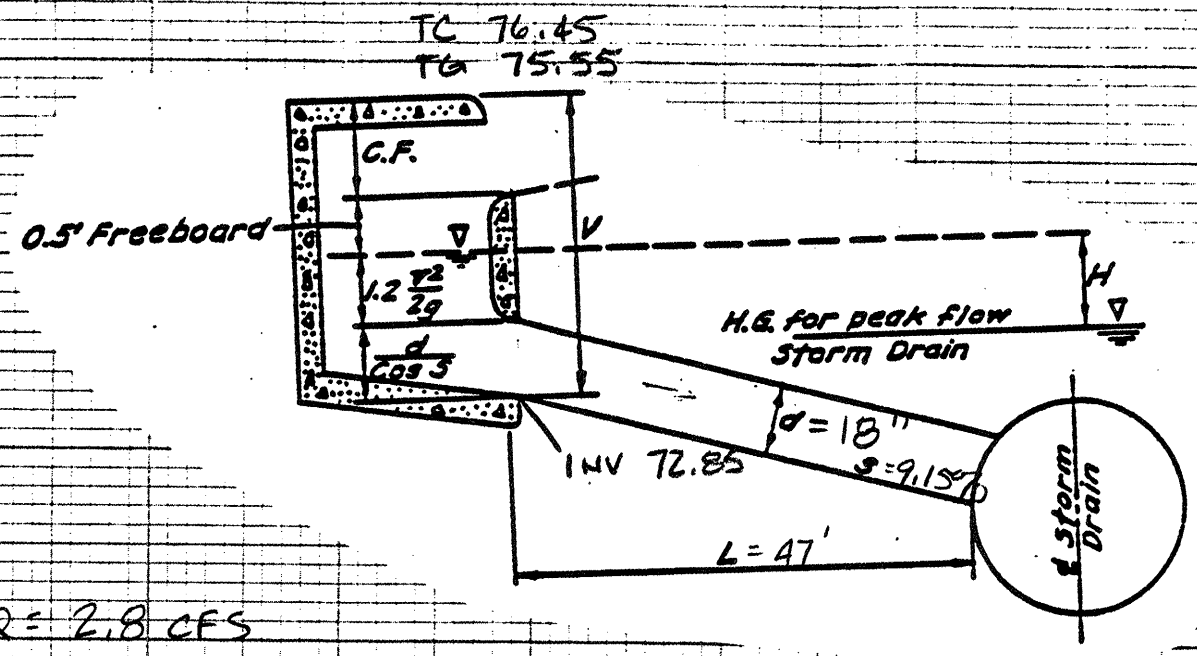
PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

CB 3

SINGLE TYPE A



$Q = 2.8$ CFS

$V = \frac{Q}{A} = 1.58$ FPS

$1.2\frac{V^2}{2g} = 0.05$

$V_{MIN} = 1.33 + 0.05 + 1.5$

$= 2.88$ FT

$V_{PROVIDED} = 76.45 - 72.85 = 3.6$ FT ✓

BOHANNAN-HUSTON INC.

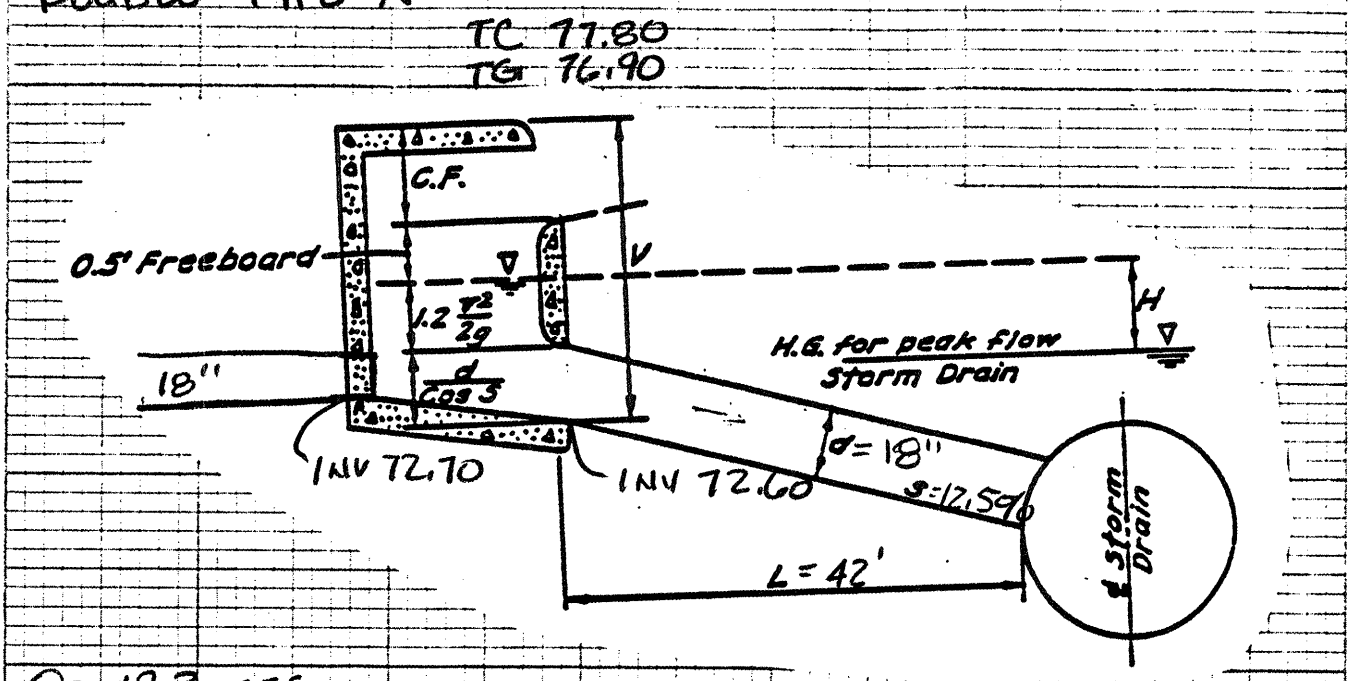
PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

CB4

DOUBLE TYPE A



$Q = 19.3$ CFS

$V = \frac{Q}{A} = 10.9$ FPS

$\frac{1.2 V^2}{2g} = 2.2$ FT

$V_{MIN} = 1.33 + 2.2 + 1.5$

$= 5.03$ FT

$V_{PROVIDED} = 77.8 - 72.6 = 5.2$ FT ✓

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

SIDEWALK CHANNEL - TRACT 9 (SC2)

Q = 5.3 CFS

SLOPE = 2.0 % (SEE ATTACHED RATING CURVE)

d = 0.40'

V = 6.9 FPS

IN ORDER TO PROVIDE SUFFICIENT HEAD (H = 1.0'), FOR WEIR, THE PAVEMENT & CURB & GUTTER WILL BE WARPED TO PROVIDE A 12" CURB AT THE CHANNEL INFLOW, LIKE SECTION B-B IN THE SC1 ANALYSIS ON THE PREVIOUS PAGE.

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

SIDEWALK CULVERT/PRESBYTERIAN HOSPITAL

SIDEWALK CULVERTS- NORTH VISITOR'S LOT & TRACT 9

MANNING'S N = .0130 SLOPE = .0200

POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV
1	0.00	0.50	3	1.00	0.01	5	2.01	0.50
2	0.01	0.04	4	2.00	0.04			

WSEL (FT)	DEPTH INC	FLOW AREA (SQ FT)	FLOW RATE (CFS)	WETTED PER (FT)	FLOW VEL (FPS)	TOP WID
0.02	0.01	0.0	0.0	0.6	0.5	0.63
0.03	0.02	0.0	0.0	1.3	0.8	1.26
0.04	0.03	0.0	0.0	1.9	1.0	1.88
0.05	0.04	0.0	0.1	2.0	1.3	1.99
0.06	0.05	0.1	0.1	2.0	1.7	1.99
0.07	0.06	0.1	0.2	2.0	2.0	1.99
0.08	0.07	0.1	0.2	2.1	2.3	1.99
0.09	0.08	0.1	0.3	2.1	2.5	1.99
0.10	0.09	0.1	0.4	2.1	2.7	1.99
0.11	0.10	0.2	0.5	2.1	3.0	1.99
0.12	0.11	0.2	0.6	2.1	3.2	1.99
0.13	0.12	0.2	0.7	2.2	3.4	1.99
0.14	0.13	0.2	0.8	2.2	3.6	1.99
0.15	0.14	0.2	0.9	2.2	3.8	1.99
0.16	0.15	0.3	1.1	2.2	3.9	2.00
0.17	0.16	0.3	1.2	2.2	4.1	2.00
0.18	0.17	0.3	1.3	2.3	4.3	2.00
0.19	0.18	0.3	1.4	2.3	4.4	2.00
0.20	0.19	0.3	1.6	2.3	4.6	2.00
0.21	0.20	0.4	1.7	2.3	4.7	2.00
0.22	0.21	0.4	1.9	2.3	4.9	2.00
0.23	0.22	0.4	2.0	2.4	5.0	2.00
0.24	0.23	0.4	2.2	2.4	5.1	2.00
0.25	0.24	0.4	2.4	2.4	5.3	2.00
0.26	0.25	0.5	2.5	2.4	5.4	2.00
0.27	0.26	0.5	2.7	2.4	5.5	2.00
0.28	0.27	0.5	2.9	2.5	5.6	2.00
0.29	0.28	0.5	3.0	2.5	5.7	2.00
0.30	0.29	0.5	3.2	2.5	5.9	2.00
0.31	0.30	0.6	3.4	2.5	6.0	2.00
0.32	0.31	0.6	3.6	2.5	6.1	2.00
0.33	0.32	0.6	3.8	2.6	6.2	2.00
0.34	0.33	0.6	3.9	2.6	6.3	2.00
0.35	0.34	0.6	4.1	2.6	6.4	2.00
0.36	0.35	0.7	4.3	2.6	6.5	2.00
0.37	0.36	0.7	4.5	2.6	6.6	2.00
0.38	0.37	0.7	4.7	2.7	6.7	2.00
0.39	0.38	0.7	4.9	2.7	6.8	2.01
0.40	0.39	0.7	5.1	2.7	6.9	2.01
0.41	**0.40**	**0.8**	**5.3**	**2.7**	**6.9**	**2.01**
0.42	0.41	0.8	5.5	2.7	7.0	2.01
0.43	0.42	0.8	5.7	2.8	7.1	2.01
0.44	0.43	0.8	6.0	2.8	7.2	2.01
0.45	0.44	0.8	6.2	2.8	7.3	2.01
0.46	0.45	0.9	6.4	2.8	7.4	2.01
0.47	0.46	0.9	6.6	2.8	7.4	2.01
0.48	0.47	0.9	6.8	2.9	7.5	2.01
0.49	0.48	0.9	7.0	2.9	7.6	2.01
0.50	0.49	0.9	7.3	2.9	7.7	2.01

Q=5.3CFS
@S=20%
d=0.4'

SIDEWALK CULVERT/PRESBYTERIAN HOSPITAL

FOR CHANNEL FROM NORTH VISITORS' LOT TO SIDEWALK CULVERT

MANNING'S N = .0130 SLOPE = .1060

POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV
1	0.00	0.50	3	1.00	0.01	5	2.01	0.50
2	0.01	0.04	4	2.00	0.04			

WSEL (FT)	DEPTH INC	FLOW AREA (SQ FT)	FLOW RATE (CFS)	WETTED PER (FT)	FLOW VEL (FPS)	TOP WID
0.02	0.01	0.0	0.0	0.6	1.1	0.63
0.03	0.02	0.0	0.0	1.3	1.7	1.26
0.04	0.03	0.0	0.1	1.9	2.3	1.88
0.05	0.04	0.0	0.1	2.0	3.1	1.99
0.06	0.05	0.1	0.3	2.0	3.9	1.99
0.07	0.06	0.1	0.4	2.0	4.6	1.99
0.08	0.07	0.1	0.6	2.1	5.2	1.99
0.09	0.08	0.1	0.7	2.1	5.8	1.99
0.10	0.09	0.1	0.9	2.1	6.3	1.99
0.11	0.10	0.2	1.1	2.1	6.8	1.99
0.12	0.11	0.2	1.4	2.1	7.3	1.99
0.13	0.12	0.2	1.6	2.2	7.8	1.99
0.14	0.13	0.2	1.9	2.2	8.2	1.99
0.15	0.14	0.2	2.1	2.2	8.6	1.99
0.16	0.15	0.3	2.4	2.2	9.1	2.00
0.17	0.16	0.3	2.7	2.2	9.4	2.00
0.18	0.17	0.3	3.0	2.3	9.8	2.00
0.19	0.18	0.3	3.3	2.3	10.2	2.00
0.20	0.19	0.3	3.7	2.3	10.5	2.00
0.21	0.20	0.4	4.0	2.3	10.9	2.00
0.22	0.21	0.4	4.3	2.3	11.2	2.00
0.23	0.22	0.4	4.7	2.4	11.5	2.00
0.24	0.23	0.4	5.0	2.4	11.8	2.00
0.25	**0.24**	**0.4**	**5.4**	**2.4**	**12.1**	**2.00**
0.26	0.25	0.5	5.8	2.4	12.4	2.00
0.27	0.26	0.5	6.2	2.4	12.7	2.00
0.28	0.27	0.5	6.6	2.5	13.0	2.00
0.29	0.28	0.5	7.0	2.5	13.2	2.00
0.30	0.29	0.5	7.4	2.5	13.5	2.00
0.31	0.30	0.6	7.8	2.5	13.7	2.00
0.32	0.31	0.6	8.2	2.5	14.0	2.00
0.33	0.32	0.6	8.6	2.6	14.2	2.00
0.34	0.33	0.6	9.1	2.6	14.5	2.00
0.35	0.34	0.6	9.5	2.6	14.7	2.00
0.36	0.35	0.7	10.0	2.6	14.9	2.00
0.37	Q.36	0.7	10.4	2.6	15.1	2.00
0.38	0.37	0.7	10.9	2.7	15.4	2.00
0.39	0.38	0.7	11.3	2.7	15.6	2.01
0.40	0.39	0.7	11.8	2.7	15.8	2.01
0.41	0.40	0.8	12.3	2.7	16.0	2.01
0.42	0.41	0.8	12.7	2.7	16.2	2.01
0.43	0.42	0.8	13.2	2.8	16.4	2.01
0.44	0.43	0.8	13.7	2.8	16.6	2.01
0.45	0.44	0.8	14.2	2.8	16.7	2.01
0.46	0.45	0.9	14.7	2.8	16.9	2.01
0.47	0.46	0.9	15.2	2.8	17.1	2.01
0.48	0.47	0.9	15.7	2.9	17.3	2.01
0.49	0.48	0.9	16.2	2.9	17.5	2.01
0.50	0.49	0.9	16.7	2.9	17.6	2.01

Q = 5.3 CFS
@ S = 10.6%
d = 0.24'

FOR CONTINUATION SEE SHEET C204

SILVER AVENUE SE

CEDAR STREET SE

SYCAMORE STREET SE

LEAD AVENUE SE

TRACT 8

TRACT 9

EXISTING RAMP

NOTE: EXISTING STRIPING TO BE REMOVED AND ALL TO BE RESTRIPED AS SHOWN ON SHT C105

PROTECT EXISTING IRRIGATION

MATCH EXISTING TC119.1

TW 26.6 BW 21.0

TW 20.3 BW 14.8

15.32

15.09

15.59 Top of Asphalt

5099.51 GROUND

5107.39 GROUND

8" VCP

EXISTING WOOD FENCE TO REMAIN

NOTE: ALL WORK IN CEDAR ST. FROM BACK OF CURB TO BACK OF CURB IS TO BE COMPLETED AS PART OF A SEPARATE CONTRACT, AS PART OF CITY OF ALBUQUERQUE WORK ORDER PROJECT NO. 5645.91. INFORMATION PROVIDED HEREIN, WHICH SHOWS WORK BETWEEN THE CURBS ON CEDAR ST., IS PROVIDED "FOR INFORMATION ONLY."

NOTE: FOR DEMOLITION INFORMATION, SEE DEMOLITION SHT SD105. FOR HORIZONTAL CONTROL, SEE SHT C105. FOR GRADING GENERAL NOTES SEE SHT C203

MH (STM 5)

LEGEND

PP	POWER POLE	MH (STM)	MANHOLE (STORM)	GV	GAS VALVE
PP	POWER POLE (METAL/HV)	MH (SAN)	MANHOLE (SANITARY)	FH	FIRE HYDRANT
	ANCHOR	MH (E)	MANHOLE (ELECTRIC)	WM	WATER METER
LT	LIGHT POLE	MH (T)	MANHOLE (TELEPHONE)	WV	WATER VALVE
ALT	AREA LIGHT	MH (UN)	MANHOLE (UNDETERMINED)	WF	WATER FAUCET
GP	GUARD POST	D	TREE (DECIDUOUS)	DI	DROP INLET
TS	TRAFFIC SIGN	E	TREE (EVERGREEN)	EC	ELECTRICAL CONDUIT
RD	ROOF DRAIN			SN	BUSINESS SIGN
EB	ELECTRIC BOX	RD	ROOF DRAIN	SCV	SPRINKLER CONTROL VALVE
TCB	TRAFFIC CONTROL BOX	DR	AREA DRAIN	DSP	DRY STAND PIPE
TSL	TRAFFIC SIGNAL LIGHT		CONCRETE	CO	CLEAN OUT
TR	TELEPHONE RISER	TP	TRANSFORMER PAD	VB	VALVE BODY
GM	GAS METER	OHP	OVERHEAD ELECTRIC CABLE	HWS	HOT WATER SUPPLY
UGS	UNDERGROUND UTILITY LOCATION SPOT	UGP	UNDERGROUND ELECTRIC CABLE	HWR	HOT WATER RETURN
		OHT	OVERHEAD TELEPHONE CABLE	2"P	2" PIPE, LOW PRESSURE GAS
				CWS	CHILLED WATER SUPPLY

CHWR	CHILLED WATER RETURN	AC	ASBESTOS CONCRETE PIPE
STEAM	STEAM LINE	G	GAS LINE
OXYGEN	OXYGEN LINE	STM SD	STORM DRAIN
SFM	SANITARY SEWER FORCED MAIN	W	WATER LINE, FIRE PROTECTION
W	WATER LINE	SAS	SANITARY SEWER MAIN
ST	STEEL PIPE	E	UNDERGROUND ELECTRICAL LINES (SCALED FROM AS-BUILT DRAWING ET, 1979 ADDITIONS)
UT	UNDERGROUND TELEPHONE CABLE	SD	PROPOSED STORM DRAIN
U	OVERHEAD UTILITY LINE		PROPOSED LIGHT
	CHAIN LINK FENCE		PROPOSED TREEWELL
	WOODEN FENCE		PROPOSED STORM DRAIN MANHOLE
	BUILDING		PROPOSED STORM DRAIN INLET
TC XX.XX	PROPOSED SPOT ELEVATIONS		TRANSITION BETWEEN CURB TYPES
PI XX.XX FL XX.XX	POINT OF INTERSECTION FLOW LINES		
HP	HIGH PRESSURE		
CI DIP	CAST IRON PIPE		
VCP	VETRIFIED CLAY PIPE		

KEYED NOTES/DRAINAGE/GRADING/PAVING

1. BUILD 6" PCC CURB & GUTTER AS PER DETAIL, SHT C209
2. PROPOSED SITE SIGNAGE TYPE "B". SEE MAJOR SITE SIGNAGE DETAIL, SHT C306
3. BUILD SIDEWALK CULVERT PER C.O.A. STD DWG 2236
4. BUILD STD. CURB & GUTTER PER C.O.A. STD DWG 2415
5. BUILD PCC SIDEWALK
6. BUILD CONCRETE VALLEY GUTTER PER C.O.A. STD DWG 2420
7. BUILD ASPHALT PAVEMENT, SEE DETAIL, SHT C208
8. NOT USED
9. BUILD CHAIN LINK FENCE, REUSE EXISTING IF POSSIBLE
10. BUILD ROLLING GATE IN CHAIN LINK FENCE
11. BUILD SCREEN WALL TYPE "A", SEE DETAIL, SHT C209
12. BUILD WOOD FENCE TO MATCH EXISTING WOOD FENCE ON NORTH SIDE OF LEAD AVE., BETWEEN CEDAR & SPRUCE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
13. NEW ISLAND TO INCORPORATE WATER HARVESTING DETAIL, SHT C210
14. EDGE OF ASPHALT, NO CURB AND GUTTER THIS SIDE
15. NEW LIGHT (TYP.). SEE SITE ELECTRICAL PLANS.
16. MATCH EXISTING SIDEWALK
17. EXISTING RETAINING WALL TO BE REMOVED. SEE SITE DEMOLITION PLANS
18. WATER BLOCK

DRAINAGE CERTIFICATION

AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN IN LOCATIONS WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE NEW ELEVATION IS LISTED. ELEVATIONS WERE PROVIDED BY *ALB. SURVEYING CO.*, PROFESSIONAL LAND SURVEYOR.

I, JAMES R. TOPMILLER, OF BOHANNAN-HUSTON INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE DRAINAGE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JAMES R. TOPMILLER, P.E. N.M.P.E. No. 9354

DATE 7/23/99

RECEIVED
AUG 2 8 1999
HYDROLOGY SECTION

20 10 0 20
SCALE: 1"=20'

KEY PLAN

SMPC NBBJ
115 AMHERST DRIVE SE, ALBUQUERQUE, NEW MEXICO 87106 (505) 255-8668 Fax (505) 268-6665
111 SOUTH JACKSON STREET SEATTLE, WASHINGTON 98104 (206) 223-5076 Fax (206) 621-2304
BOHANNAN-HUSTON INC. ENGINEERS · PLANNERS · PHOTOGRAMMETRISTS · SURVEYORS · LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE

SITE IMPROVEMENTS-MP R617

GRADING/DRAINAGE/PAVING PLAN

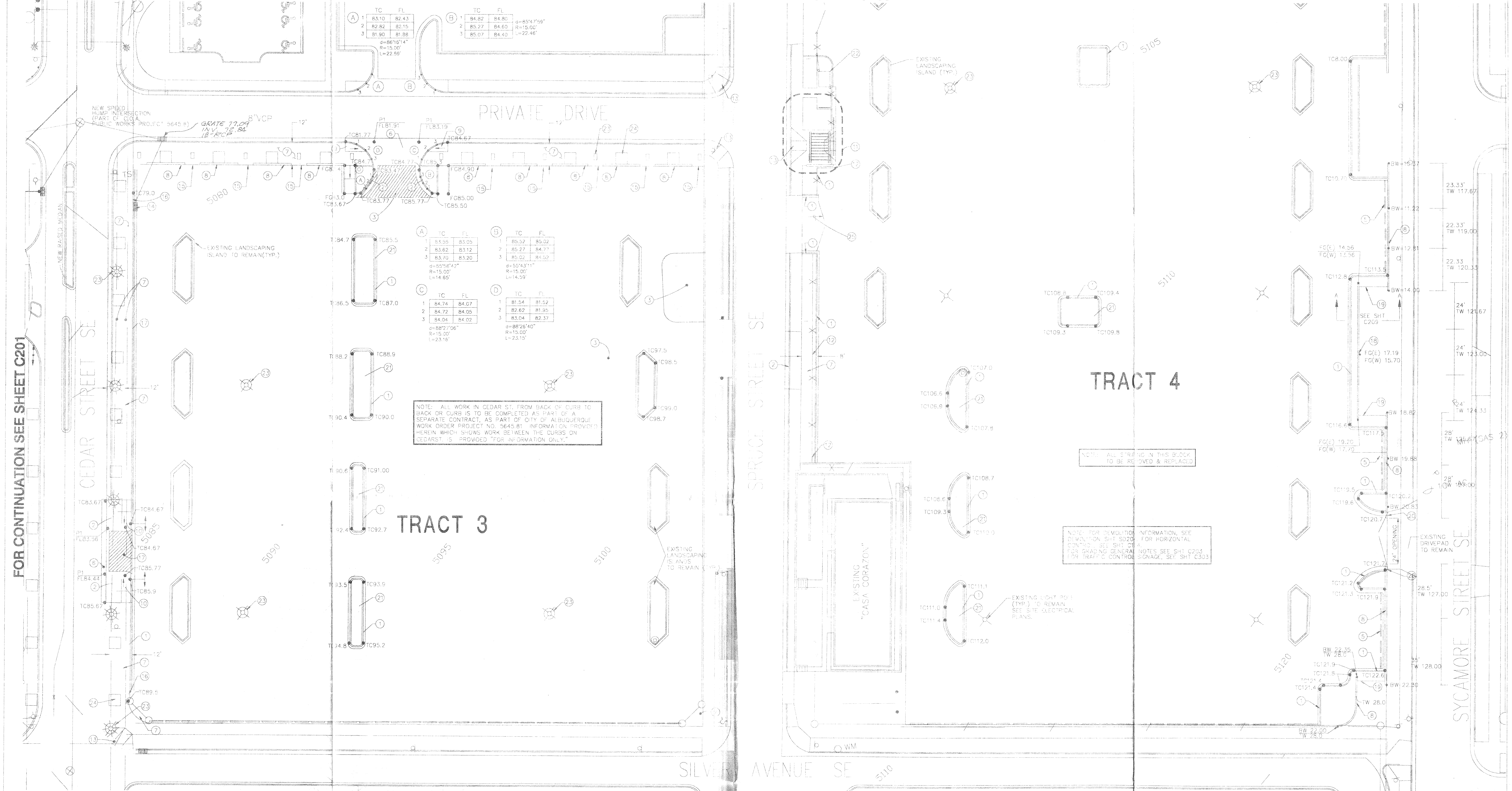
REV. #	DATE	
		PROJECT #: 96021
		DWN BY: PDF
		CHK BY: PR
		DATE: 6/16/97

C205 OF

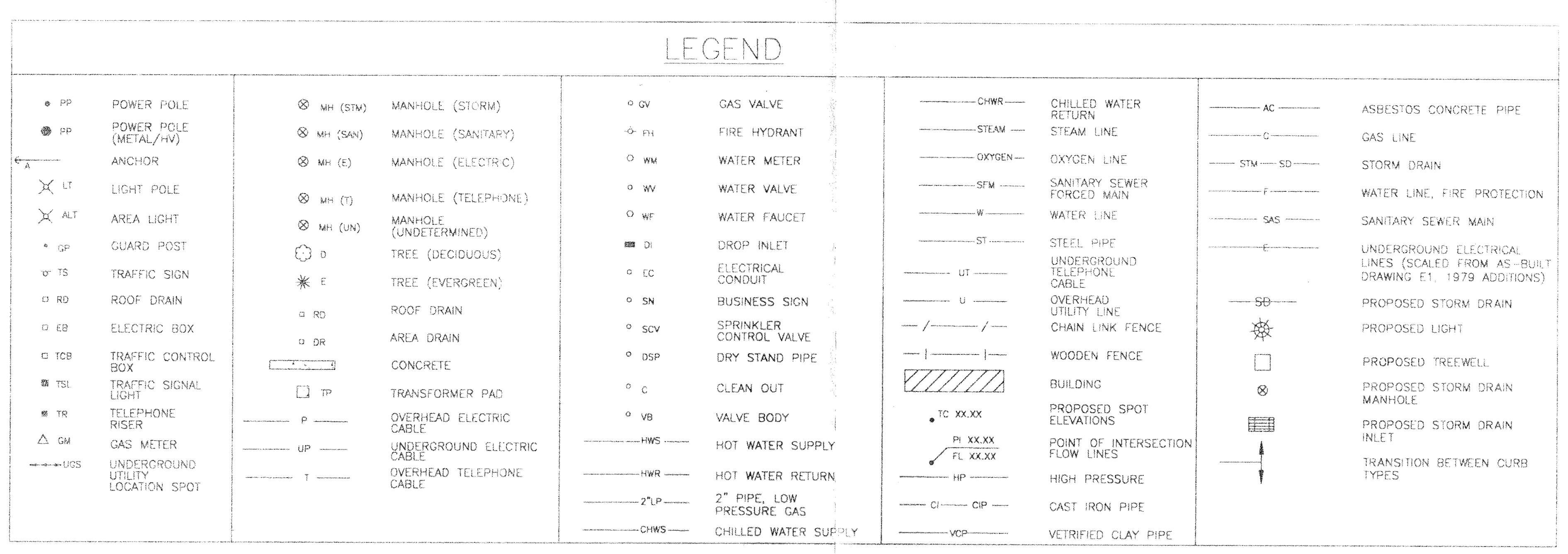
7/16/97

BHI PROJECT NO. C96107A2413
FILENAME: BHI-MAIN\96107\COP\DESIGN\ACAD\C205.dwg
XREFS: C000.DWG, CONTOURS.DWG, UTILITY.DWG

FOR CONTINUATION SEE SHEET C203



FOR CONTINUATION SEE SHEET C205



KEYED NOTES: DRAINAGE/GRADING/PAVING

1. BUILD 6" PCC CURB & GUTTER PER DETAIL SHEET C209
2. BUILD STANDARD CURB & GUTTER PER C.O.A. STD DWG 2415
3. BUILD ASPHALT PAVEMENT SEE DETAIL SHT C208
4. BUILD ACCESSIBLE RAMP, TYPE F, SEE DETAIL, SHT C208
5. INSTALL PARKING BUMPER FROM STOCKPILE (TYP.)
6. BUILD CONCRETE VALLEY GUTTER PER C.O.A. STD DWG 2460
7. BUILD PCC SIDEWALK
8. BUILD SCREEN WALL TYPE "B" (2' TO 2'-8"). SEE DETAIL, SHT C209
9. BUILD ACCESSIBLE RAMP, TYPE "D", SEE DETAIL, SHT C208
10. BUILD ACCESSIBLE RAMP, TYPE "A", SEE DETAIL, SHT C208
11. FOR WORK THIS AREA, SEE DETAIL, SHT C211
12. INSTALL CHAIN LINK FENCE
13. BUILD ACCESSIBLE RAMP TYPE "C". SEE DETAIL, SHT C208
14. BUILD SD INLET TYPE "D" SEE C.O.A. STD DWG 2206
    TC=79.1 TG= ~~78.2~~ 78.55 INV.= ~~74.2~~ 73.88 (18" RCP)
15. TURNED DOWN EDGE OF SIDEWALK. SEE DETAIL, SHT C209
16. TRANSITION CURB & GUTTER, SEE "CURB & GUTTER TRANSITION" DETAIL SHT C208
17. CONSTRUCT 2" GUTTER PER DETAIL SHT C208
18. BUILD SCREEN WALL TYPE "C", SEE DETAIL, SHT C209
19. BUILD SCREEN WALL GRILL, SEE DETAIL, SHT C209
20. BUILD SCREEN WALL PILASTER, SEE DETAIL, SHT C209
21. NEW ISLAND TO USE WATER HARVESTING DETAIL, SHT C210
22. NEW LOCATION FOR SECURITY STATION
23. NEW LIGHT (TYP.). SEE SITE ELECTRICAL PLANS
24. FOR TREE WELL DETAILS, SEE SITE LANDSCAPE PLANS
25. RELOCATE EXISTING GATE

DRAINAGE CERTIFICATION

AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN IN LOCATIONS WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE NEW ELEVATION IS LISTED. ELEVATIONS WERE PROVIDED BY ALB. SURVEYING CO., PROFESSIONAL LAND SURVEYOR.

I, JAMES R. TOPMILLER, OF BOHANNAN-HUSTON INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE DRAINAGE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

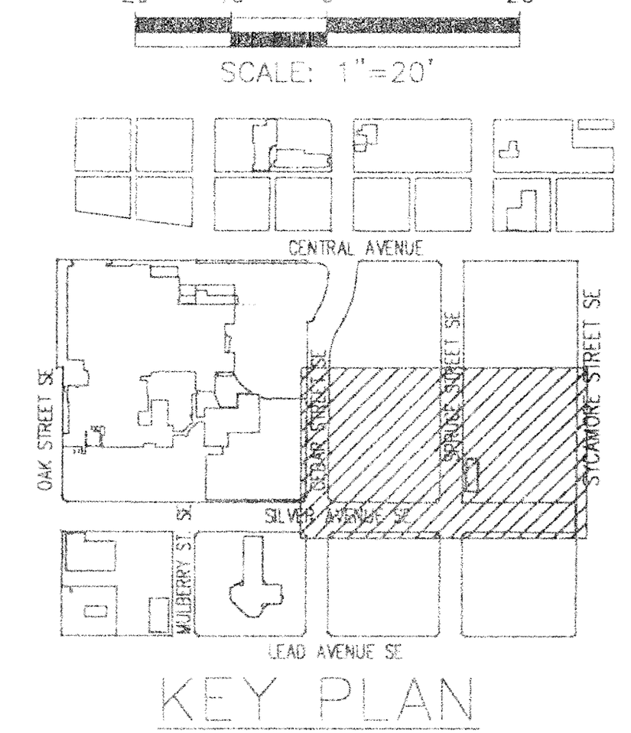
JAMES R. TOPMILLER, P.E. N.M.P.E. No. 9354

7/23/99

DATE

RECEIVED JUL 28 1999 HYDROLOGY SECTION

SCALE: 1"=20'



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BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

SITE IMPROVEMENTS-MP R617

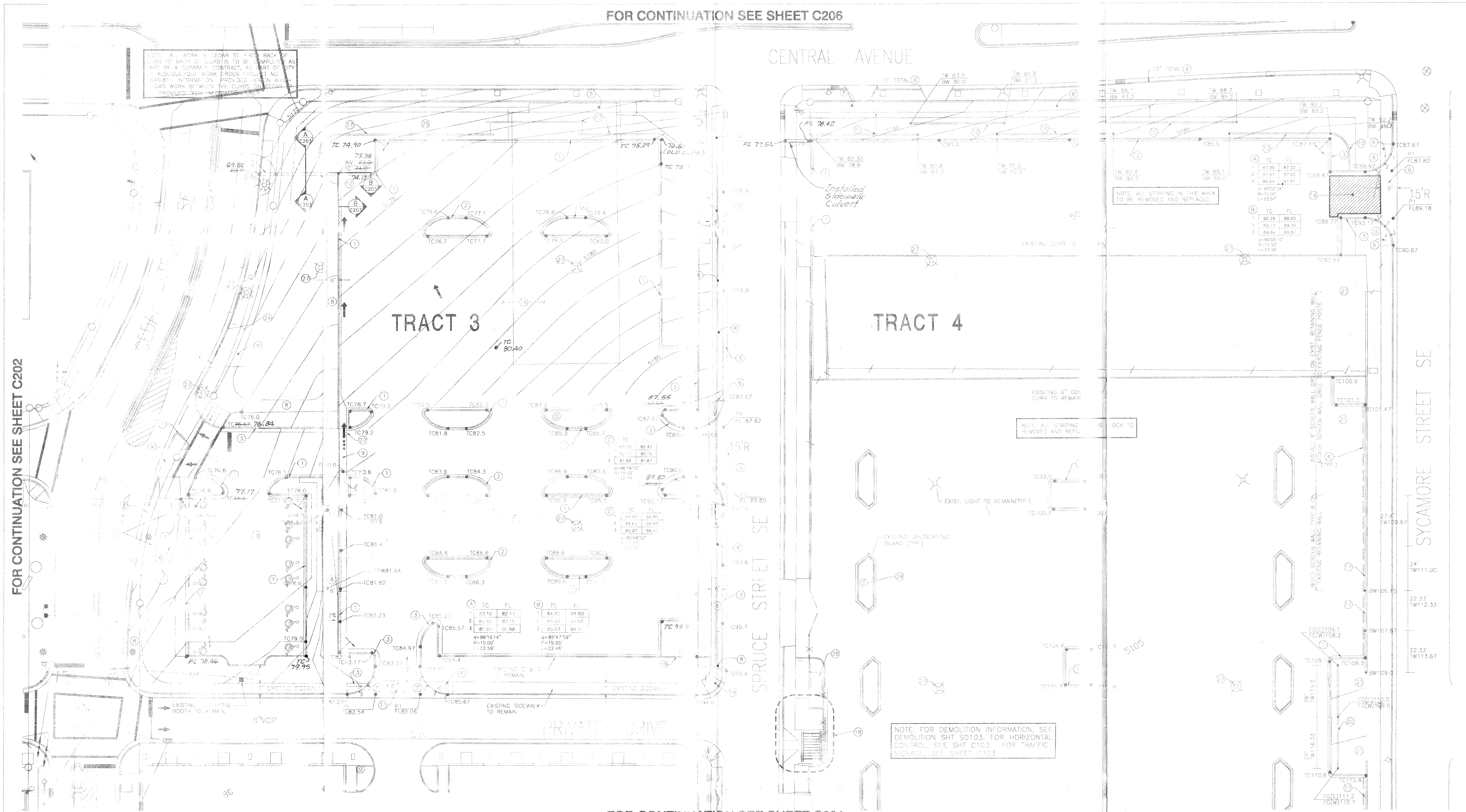
GRADING/DRAINAGE/PAVING PLAN

REV. #	DATE	PROJECT #: 96021
		DWN BY: PDF
		CHK BY: PR
		DATE: 6/16/97
		C204 OF

6/16/97

FOR CONTINUATION SEE SHEET C206

FOR CONTINUATION SEE SHEET C202



FOR CONTINUATION SEE SHEET C204

GRADING GENERAL NOTES

1. EXCEP[illegible] GRADING SHALL BE PERFORMED AT THE ELEVATIONS [illegible] WITH THE DETAILS SHOWN ON THIS PLAN.

2. CONTRA[illegible] SHALL OBTAIN AND ABIDE BY A TOPSOIL DISTURBANCE PERMIT FROM THE [illegible] ALBUQUERQUE. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE [illegible] FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS. (SECOND PRIORITY).

4. TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1264) FOR LOCATION OF EXISTING UTILITIES.

5. PRIOR TO GRADING, ALL VEGETATION, DEBRIS, AND NEAR SURFACE ORGANICALLY CONTAMINATED SOIL SHALL BE STRIPPED FROM ALL AREAS TO BE GRADED. VEGETATION AND DEBRIS SHALL BE DISPOSED OF OFF-SITE. TOPSOIL STRIPPINGS SHALL BE DISPOSED OF OFF-SITE OR STOCKPILED FOR USE IN PLANTERS AND NON-STRUCTURAL FILLS.

6. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

7. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

8. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS PER COA STANDARD SPECIFICATIONS 1012.

9. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

10. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

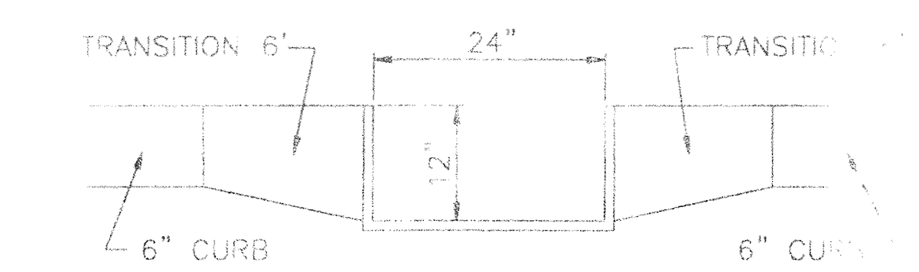
11. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

12. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND ARE ADJUSTED FOR CURBS, MEDIANS AND ISLANDS.

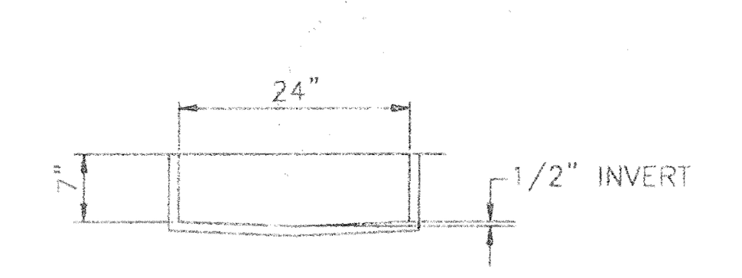
13. FOR INFORMATION ON TRAFFIC CONTROL SIGNAGE AND SITE SIGNAGE, REFER TO SHEETS C301 TO C305. FOR HORIZONTAL LOCATION INFORMATION, SEE HORIZONTAL CONTROL SHEETS C101 TO C106

KEYED NOTES:GRADING/DRAINAGE/PAVING

1. BUILD 6" PCC CURB & GUTTER AS PER DETAIL, SHT C209
2. TURNED DOWN EDGE OF SIDEWALK, SEE DETAIL, SHT C209
3. BUILD STD CURB & GUTTER PER C.O.A. STD DWG [illegible]
4. INSTALL PARKING BUMPERS FROM STOCKPILE
5. BUILD RAMP TYPE "B", AS PER DETAIL, SHT C208
6. BUILD RAMP TYPE "D", AS PER DETAIL, SHT C208
7. BUILD PCC CUTOFF WALL PER C.O.A. STD DWG. [illegible]
8. BUILD PCC SIDEWALK
9. BUILD CONCRETE VALLEY GUTTER - PER C.O.A. STD DWG 2420
10. BUILD SCREEN WALL TYPE B SEE DETAIL, SHT C20[illegible]
11. BUILD CONCRETE VALLEY GUTTER - 6' WIDTH PER DETAIL, SHT C209
12. BUILD CONCRETE CHANNEL PER C.O.A. STD DWG [illegible]
13. BUILD 24" WIDE SIDEWALK CULVERT PER C.O.A. STD DWG 2236
14. TREE GRATE
15. SCORE PATTERN (TYP.)
16. BUILD ASPHALT PAVEMENT, SEE DETAIL, SHT C208
17. BUILD SCREEN WALL TYPE A. SEE DETAIL, SHT C20[illegible]
18. FOR WORK THIS AREA, SEE DETAIL SHT C208
19. BUILD ACCESSIBLE RAMP TYPE "C" AS PER DETAIL, SHT C208
20. BUILD SCREEN WALL TYPE "C", SEE DETAIL, SHT C209
21. BUILD SCREEN WALL GRILL, SEE DETAIL, SHT C209
22. SEE CURB/GUTTER DETAIL, SHEET C210
23. BUILD CONCRETE PAVEMENT PER DETAIL, SHT. C208
24. MATCH EXISTING SIDEWALK
25. 4:1 MAX. SLOPE
26. NEW LOCATION FOR SECURITY STATION
27. NEW LIGHT (TYP.) SEE SITE ELECTRICAL PLAN
28. EMERGENCY TELEPHONE
29. CONCRETE MOW CURB - SEE SITE LANDSCAPE PLANS



CHANNEL OPENING AT CURB TRANSITION
SECTION B-B
N.T.S.



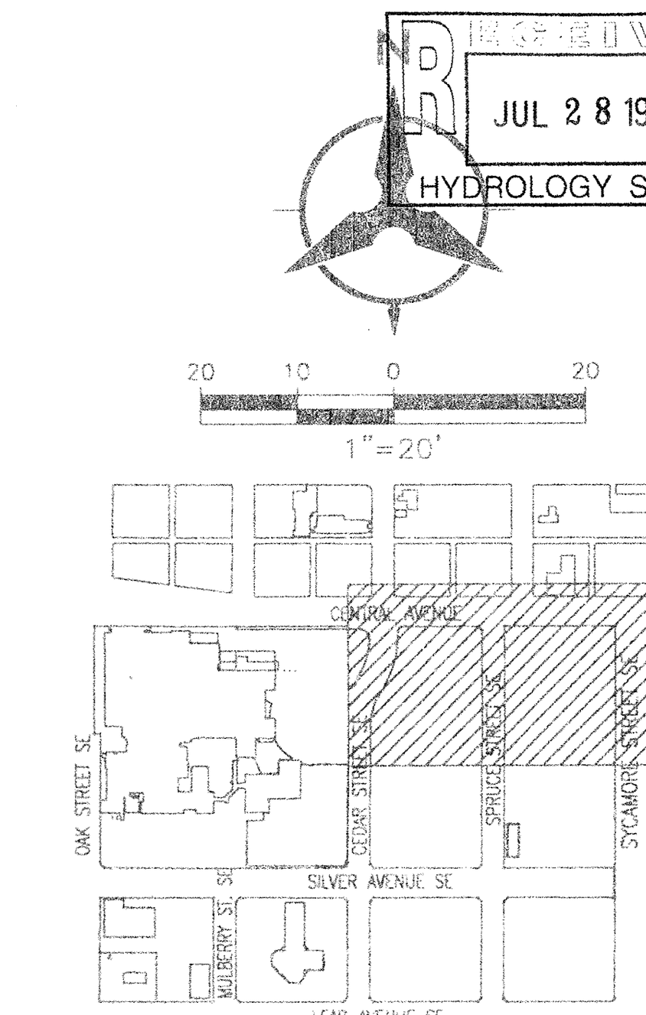
SIDEWALK CHANNEL -NORTH VISITOR'S LOT
SECTION A-A
N.T.S.

DRAINAGE CERTIFICATION

AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN IN LOCATIONS WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE NEW ELEVATION IS LISTED. ELEVATIONS WERE PROVIDED BY ~~BOHANNAN-HUSTON INC.~~ ALB. SURVEYING CO. PROFESSIONAL LAND SURVEYOR.
I, JAMES R. TOPMILLER, OF BOHANNAN-HUSTON INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE DRAINAGE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JAMES R. TOPMILLER, P.E. N.M.P.E. No [illegible]

7/23/99
DATE



KEY PLAN

SMPC
115 AMHERST DRIVE SE., ALBUQUERQUE, NEW MEXICO 87106
(505) 255-8668 Fax (505) 268-6665

NBBJ
111 SOUTH JACKSON STREET
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BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

SITE IMPROVEMENTS-MP R617

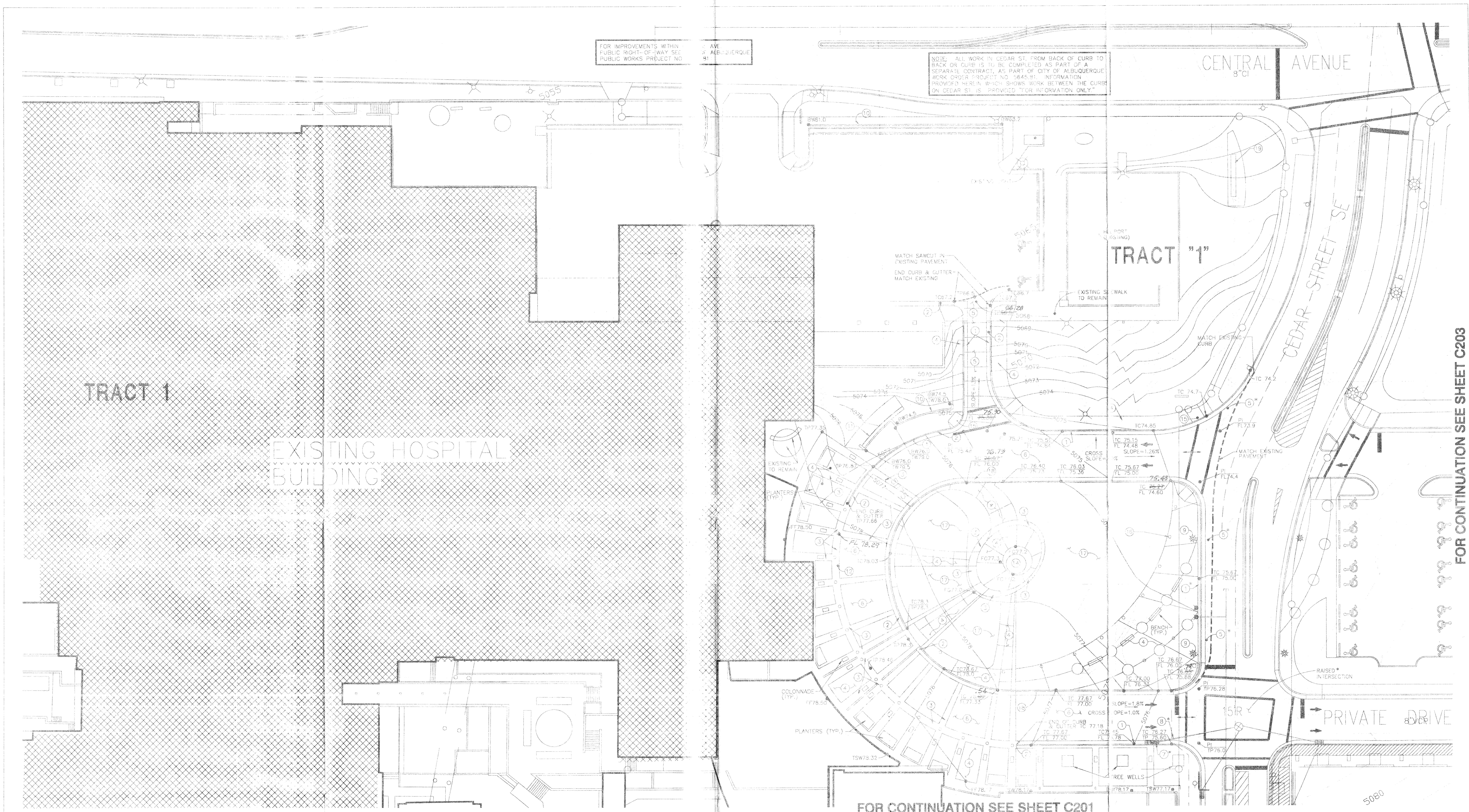
GRADING/DRAINAGE/PAVING PLAN

REV. #	DATE	
		PROJECT #: 96021
		DWN BY: PDF
		CHK BY: PR
		DATE: 6/16/97

C203
OF

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER
6/16/97

BHI PROJECT NO. [illegible]
FILENAME: BHI-MA[illegible]203.dwg
XREFS= C000.DWG, [illegible]



LEGEND

Symbol	Description
PP	POWER POLE
PP	POWER POLE (METAL/HV)
A	ANCHOR
LT	LIGHT POLE
ALT	AREA LIGHT
GP	GUARD POST
TS	TRAFFIC SIGN
RD	ROOF DRAIN
EB	ELECTRIC BOX
TCB	TRAFFIC CONTROL BOX
TSL	TRAFFIC SIGNAL LIGHT
TR	TELEPHONE RISER
GM	GAS METER
UGS	UNDERGROUND UTILITY LOCATION SPOT
MH (STM)	MANHOLE (STORM)
MH (SAN)	MANHOLE (SANITARY)
MH (E)	MANHOLE (ELECTRIC)
MH (T)	MANHOLE (TELEPHONE)
MH (UN)	MANHOLE (UNDETERMINED)
D	TREE (DECIDUOUS)
E	TREE (EVERGREEN)
RD	ROOF DRAIN
DR	AREA DRAIN
	CONCRETE
TP	TRANSFORMER PAD
P	OVERHEAD ELECTRIC CABLE
UP	UNDERGROUND ELECTRIC CABLE
T	OVERHEAD TELEPHONE CABLE
GV	GAS VALVE
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
WF	WATER FAUCET
DI	DROP INLET
EC	ELECTRICAL CONDUIT
SN	BUSINESS SIGN
SCV	SPRINKLER CONTROL VALVE
DSP	DRY STAND PIPE
C	CLEAN OUT
VB	VALVE BODY
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
2"LP	2" PIPE, LOW PRESSURE GAS
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
STEAM	STEAM LINE
OXYGEN	OXYGEN LINE
SFM	SANITARY SEWER FORCED MAIN
W	WATER LINE
ST	STEEL PIPE
UT	UNDERGROUND TELEPHONE CABLE
U	OVERHEAD UTILITY LINE
/ /	CHAIN LINK FENCE
| |	WOODEN FENCE
(hatch)	BUILDING
TC XX.XX	PROPOSED SPOT ELEVATIONS
PI XX.XX / FL XX.XX	POINT OF INTERSECTION FLOW LINES
HP	HIGH PRESSURE
CI CIP	CAST IRON PIPE
VCP	VETRIFIED CLAY PIPE
AC	ASBESTOS CONCRETE PIPE
G	GAS LINE
STM SD	STORM DRAIN
F	WATER LINE, FIRE PROTECTION
SAS	SANITARY SEWER MAIN
E	UNDERGROUND ELECTRICAL LINES (SCALED FROM AS-BUILT DRAWING E1, 1979 ADDITIONS)

KEYED NOTES: G[illegible]DING/DRAINAGE/PAVING

1. BUILD STD CURB & GUTTE[illegible] C.O.A. STD DWG. 2415
2. TRANSITION CURB & GUTTER. [illegible] & G END TRANSITION" DETAIL, SHT C208
3. BUILD PCC PAVEMENT, CO[illegible] AND STAMPED PATTERN SEE DETAIL FOR PAVEMEN[illegible]08.
4. BUILD PCC SIDEWALK
5. BUILD ASPHALT PAVEMENT [illegible] DETAIL, SHT C208
6. BUILD PCC PAVEMENT, CO[illegible] BLACK. SEE DETAIL, SHT C208.
7. BUILD TYPE "C" STORM IN[illegible] C.O.A. STD DWG 2205 TC=76.43 TG=~~75.53~~ 75.63 INV=~~72.43~~ 69.31 [illegible] (18" RCP)
8. ✓ BUILD 18" RCP STORM DRA[illegible]
9. NEW LIGHT (TYP.). SEE SIT[illegible]CTRICAL PLANS
10. BUILD SCREEN WALL TYPE [illegible] DETAIL, SHT C209
11. INSTALL BICYCLE RACK
12. INSTALL ENTRANCE CANOPY [illegible] SHTS C211,C212 & C213
13. BUS SHELTER
14. SEE LANDSCAPING PLANS.
15. BUILD ACCESSIBLE RAMP, [illegible] "C", SEE SHEET C208
16. CONTRUCT BOLLARD (TYP) [illegible] DETAILS, SHT. C212
17. LANDSCAPE AREA (TYP.)
18. BUILD DEPRESSED CURB & GUTTER PER C.O.A. STD DWG. 2415
19. NEW SITE SIGNAGE TYPE "A". SEE MAJOR SITE SIGNAGE DETAIL, SHT C306

* ITEM SHOWN FOR INFORMATION ONLY. CONSTRUCTION TO BE PERFORMED UNDER CITY OF ALBUQUERQUE, PUBLIC WORKS PROJECT.

JAMES R. TOPMILLER NEW MEXICO 9354 REGISTERED PROFESSIONAL ENGINEER

DRAINAGE CERTIFICATION

AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN IN LOCATIONS WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE NEW ELEVATION IS LISTED. ELEVATIONS WERE PROVIDED BY ALBUQ. SURVEYING CO., PROFESSIONAL LAND SURVEYOR.

I, JAMES R. TOPMILLER, OF BOHANNAN-HUSTON INC., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE DRAINAGE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JAMES R. TOPMILLER, P.E. N.M.P.E. No. 9354

[signature] 7/23/99

DATE

RECEIVED JUL 2 8 1999 HYDROLOGY SECTION

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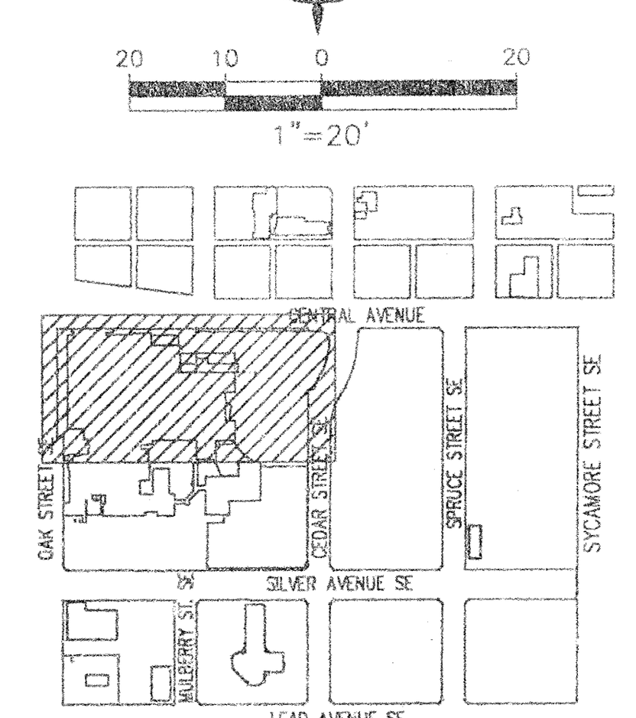
1"=20'



KEY PLAN

SMPC
115 AMHERST DRIVE SE., ALBUQUERQUE, NEW MEXICO 87106
(505) 255-8668 Fax (505) 268-6665

NBBJ
111 SOUTH JACKSON STREET
SEATTLE, WASHINGTON 98104
(206) 223-5076 Fax (206) 621-2304

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

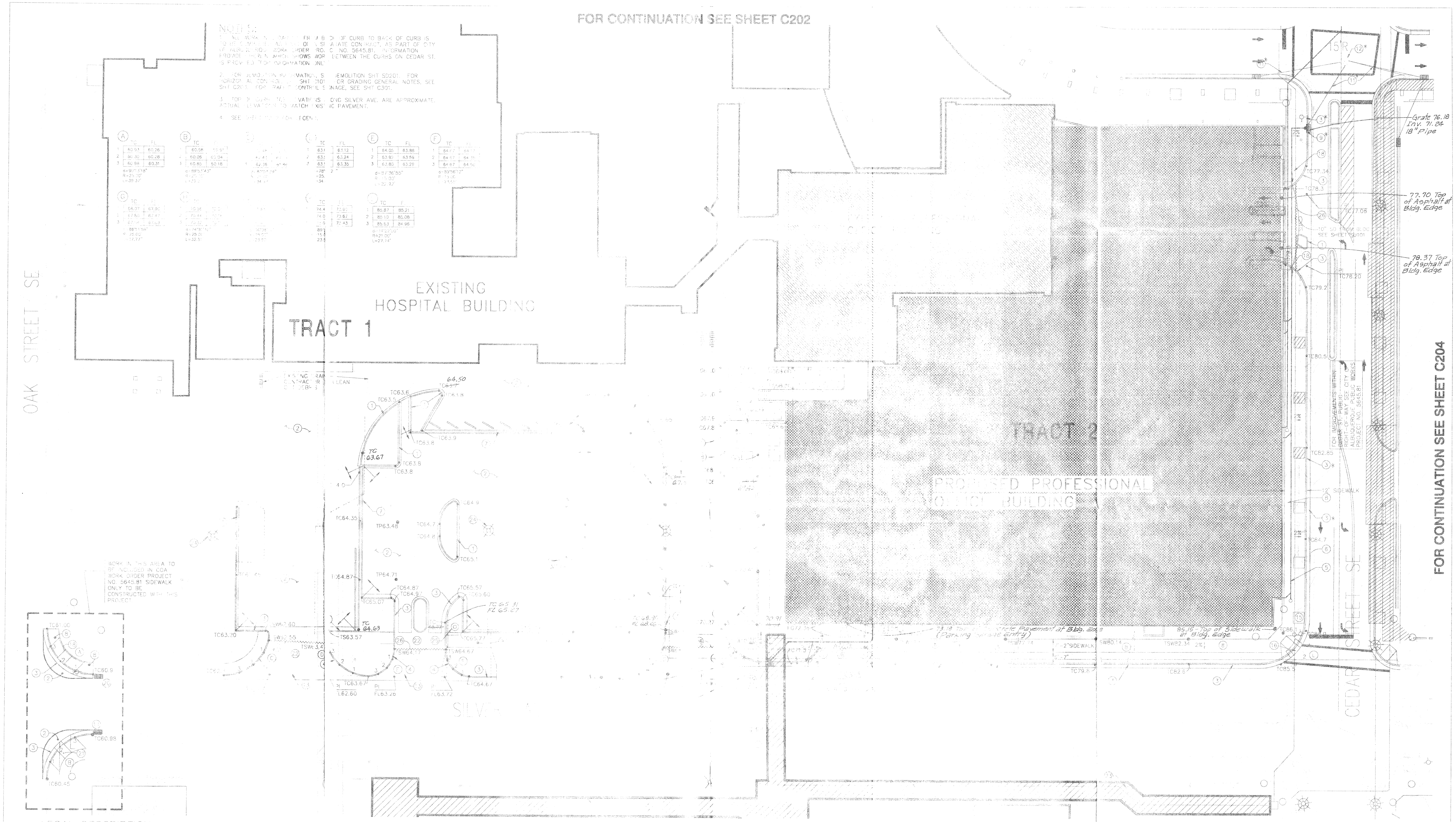
SITE IMPROVEMENTS-MP R617

GRADING/DRAINAGE/PAVING PLAN

REV. #	DATE	
		PROJECT #: 96021
		DWN BY: PDF
		CHK BY: PR
		DATE: 6/16/97
		C202 OF

BHI PROJECT NO. C96107A2413
FILENAME: BHI_MAIN\C6107\CPP\DESIGN\ACAD\C202.dwg
XREFS: MASTER, 306_C000.DWG

FOR CONTINUATION SEE SHEET C202



LEGAL DESCRIPTION

TRACTS 1 THRU 9 PRESBYTERIAN HOSPITAL– MAIN CAMPUS – PHASE ONE

EXISTING LANDSCAPING NOTE

CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS INCLUDING EXISTING TREES THAT ARE TO REMAIN, FROM DAMAGE DURING ALL PROJECT WORK. SPECIAL CARE SHOULD BE TAKEN WITHIN DRIPLINES OF EXISTING TREES; MINIMIZE TRENCHING OR EXCAVATION WITHIN TREE DRIPLINES. MAXIMUM FILL WITHIN 4' OF TRUNK SHALL BE 6"–– UP TO MAXIMUM 14" FILL WITHIN REMAINING AREA OF DRIPLINE; MAXIMUM CUT WITHIN 4' OF TRUNK SHALL BE 0"–– UP TO MAXIMUM 4" CUT WITHIN REMAINING AREA OF DRIPLINE. ANY CONTRACTOR – CAUSED DAMAGED TO EXISTING SITE IMPROVEMENTS, INCLUDING DAMAGE TO ANY TREES TO REMAIN, SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.

KEYED NOTES: DRAINAGE/GRADING/PAVING

1. BUILD 6" PCC CURB & GUTTER, PER DETAIL SHT C209
2. BUILD ASPHALT PAVEMENT, SEE DETAIL, SHT C208
3. BUILD STANDARD CURB & GUTTER PER C.O.A. STD DWG 2415
4. BUILD ENTRY, AS PER DETAIL, SHT C208
5. 6" STORM DRAIN FROM BUILDING. SEE SHT SU101
6. CURB TO BE MOVED 3' WEST
7. BUILD BACK TO BACK 6" CURB AND GUTTER, PER DETAIL SHT C208
8. BUILD PCC SIDEWALK
9. BUILD DOUBLE GRATE TYPE "C" STORM DRAIN INLET AS PER C.O.A. STD DWG 2205
10. BUILD 18" RCP CLASS III
11. BUILD 24" RCP CLASSIII
12. TYPE "E" 6' DIA. STORM DRAIN MANHOLE. CONSTRUCTION TO BE PERFORMED UNDER CITY OF ALBUQUERQUE PUBLIC WORKS PROJECT 5645.81
13. BUILD PCC VALLEY GUTTER PER C.O.A. STD DWG 2420
14. BUILD TYPE "A" DOUBLE GRATE STORM DRAIN INLET AS PER C.O.A. STD DWG 2201, CONNECT TO EXISTING 18" SD–ADD/REPLACE 18" SD CONNECTOR PIPE AS REQUIRED. TC=60.99 TC=60.09 INV.=56.20

N.M.P.E. No. 9354

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