Public Works/Hydrology

A13/D7C1

0000 0000 0772

A13/D7C1

25×10 32×10

0000 0000 0773

CITY OF
Albuquerque

September 19, 1997

Martin J. Chávez, Mayor

John Alexander, P.E.
7500 Jefferson, NE
Albuquerque, NM 87109

RE: SEVEN BAR NORTH TRACT B-3, UNIT 1 (A13-D7C1). ENGINEER'S CERTIFICATION FOR RELEASE OF FINANCIAL GUARANTEE. ENGINEER'S CERTIFICATION DATED AUGUST 28, 1997.

Dear Mr. Alexander:

Based on the information provided on your August 28, 1997 submittal, City Hydrology accepts the Engineer's Certifiction of grading and drainage for the above referenced project (COA Project No. 4982.97).

In the future, please request the approvals you need only. This project does not need a building permit (no structure is being built) and does not require a certificate of occupancy (no building permit is required).

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

Sincerely,

Lisa Ann Manwill, P.E.
Hydrology

c: Terri Martin
Andrew Garcia
File

Good for You, Albuquerque!

25×10 32×10

0000 0000 0774

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Seven Bar North TRACT B-3, Unit one ZONE ATLAS/DRNG. FILE # A-13-Z
DRB #: 95 526 EPC #: WORK ORDER #: 4982.97
LEGAL DESCRIPTION: Sandreed at Seven Bar North
CITY ADDRESS: westside Blvd. / Siesta Road

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: John Alexander
ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000
OWNER: Brown/NZD Joint Venture CONTACT: Tim McNaney
ADDRESS: 3411 Candelaria PHONE: 883-1674
ARCHITECT: CONTACT:
ADDRESS: PHONE:
SURVEYOR: Aldrich Land Surveying CONTACT: Tim & Diane Aldrich
ADDRESS: PHONE: 884-1990
CONTRACTOR: Sundance Mech. CONTACT: Carlos Spiess
ADDRESS: PHONE: 345-2694

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION
___ OTHER

PRE-DESIGN MEETING
___ YES
X NO
___ COPY PROVIDED

RECEIVED AUG 28 1997 HYDROLOGY SECTION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D. APPROVAL
___ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ FOUNDATION PERMIT APPROVAL
X BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ S.A.D. DRAINAGE REPORT
___ DRAINAGE REQUIREMENTS
X OTHER Release of Financial Guarantee SPECIFY

DATE SUBMITTED: 8-28-97
BY: John Alexander

25×10 32×10

0000 0000 0775

August 28, 1997

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505 823 1000
fax 505 821 0892

Fred Aguirre, P.E.
City Hydrologist
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

Re: Drainage Certification for Tract B-3, Unit I of Seven Bar North Subdivision, CPN 4982.97

Dear Fred:

With the submittal of the enclosed, we request the release of the financial guarantees associated with this property. This submittal certifies that the site drainage has been completed in substantial compliance with the approved grading plan, stamped July 17, 1996. We request that the drainage system as currently constructed be approved.

If I can answer any questions or provide any additional information, please feel free to contact me at any time.

Sincerely,

John Alexander

John Alexander, P.E.
Community Development
and Planning Group

JA/hjh

Enclosures

cc: Tim McNaney, Brown & Associates
Andrew Garcia, City of Albuquerque
James Topmiller, Bohannan Huston

RECEIVED
AUG 28 1997
HYDROLOGY SECTION

\\BH MAIN\PROJECTS\95280\cdp\a2441-grdg cert\correspaguirre lir1.doc

25×10 32×10

0000 0000 0776

CITY OF
Albuquerque

P.O. Box 1293 Albuquerque, NM 87103

August 9, 1996

Martin J. Chávez, Mayor

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

RE: AMENDED GRADING PLAN FOR 7 BAR NORTH TRACT B-3 UNIT 1 (A-13/D7C1)
RECEIVED JULY 22, 1996 WORK ORDER & FINAL PLAT
ENGINEER'S STAMP DATED 7/17/96

Dear Mr. Runnels:

Based on the information included in the submittal referenced above, City Hydrology accepts the Amended Grading Plan for Work Order & Final Plat. Submit the Amended Grading Plan to the DRB for their approval.

It is City Hydrology's understanding that the design for Unit 1 is contained in the "Drainage Report for Tract B-3, Seven Bar North Subdivision"(A-13/D7C), dated 3/21/96.

Engineer's Certification of grading & drainage per DPM checklist must be accepted by City Hydrology before the Financial Guaranty will be released.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin

John P. Curtin, P.E.
Civil Engineer, Hydrology

c: Andrew Garcia
Fred Aguirre, DRB 95-526
Tim McNaney, Brown & Assoc, 3411 Candelaria Rd NE 87107

Good for You, Albuquerque!

25× 32×

0000 0000 0777

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TRACT B-3 SEVEN BAR NORTH UNIT 1 ZONE ATLAS/DRNG. FILE # A-13/D7C.1
DRB #: 95-526 EPC #: _____ WORK ORDER #: 4982.97
LEGAL DESCRIPTION: SEVEN BAR NORTH TRACT B-3
CITY ADDRESS: SIERRITA ROAD / WESTSIDE BLVD

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: PIERCE RUNNELS
ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000
OWNER: BROWN/NZ DEVELOPMENT JOINT VENTURE CONTACT: TIM MCNANEY
ADDRESS: 3411 CANDELARIA NE PHONE: 883-1674
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
X GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION
___ OTHER

PRE-DESIGN MEETING:

___ YES
X NO
___ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D. APPROVAL
___ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
X FINAL PLAT APPROVAL
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ S.A.D. DRAINAGE REPORT
___ DRAINAGE REQUIREMENTS
X OTHER WORK ORDER (THROUGH DRC) (SPECIFY)

DATE SUBMITTED: 7/15/96
BY: PIERCE RUNNELS

JUL 22 1996

25 × 10 32 × 10

0000 0000 0778

ENGINEERS PLANNERS SURVEYORS
PHOTOGRAMMETRISTS LANDSCAPE ARCHITECTS

BOHANNAN-HUSTON INC.

COURTYARD I, 7500 JEFFERSON STREET NE ALBUQUERQUE, NM 87109-4355
TEL (505) 823-1000 FAX (505) 821-0892

July 15, 1996

John P. Curtin, P.E.
City of Albuquerque
Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

Re: Grading Plans for Tract 3B, Seven Bar North, Unit 1 (A-13/D7C1)

Dear John:

In your previous review of the grading plan submittal for Tract 3B of Seven Bar North-Unit 1, you identified several issues to be addressed prior to work order and final plat approval. Attached are revised plans which incorporate your comments.

The interim side lot grading detail is revised to prevent cross lot drainage. The detail is for the restrictive case of a two-foot pad difference with five-foot side yards. Note that Lots 1 and 2 have ten foot side yards, allowing adequate room for the drainage swale. A swale is indicated on the plan on Lot 1.

The DRC signature block is removed and DRB approval is referenced. The plans have been marked "For Information Only," for inclusion in the work order set.

Please let me know if these revisions satisfy the requirements for final plat.

Sincerely,

Pierce Runnels

Pierce Runnels, E.I.
Community Development
and Planning Group

PR/rac

Enclosures

cc: Tim McNaney, Brown/NZD Development (Joint Venture)
John Alexander, BHI

JUL 22

E:\CDP\9528600\C240ff\Grading Plans_Tract 3B.doc - 7/16/96

PRINCIPALS
LARRY W. HUSTON, C.P. — KERRY L. DAVIS, P.E. — GEORGE RADNOVICH, R.L.A. — WILLIAM L. VREEKE, P.E.
MICHAL M. EMERY, P.E. — LARRY A. LARRANAGA, P.E. — SILAS V. SUAZO — GORDON A. WALHOOD, JR., P.E.
BRIAN G. BURNETT, P.E. — HOWARD C. STONE, P.E. — JAMES R. TOPMILLER, P.E. — MARY E. CARTER

25×10 32×10

0000 0000 0779

FIGURE 6
CITY OF ALBUQUERQUE
NOTICE OF D.R.C. MEETING
7-25-96
(DATE)

DRB 95-526
PROJECT NO: 4982997
ZONE ATLAS: A-13

PROJECT NAME: Seven Bar North, Tract B-3 D-00701
LOCATION: 7/23/96

TYPE OF PROJECT: AHBA X CIP ___ PWC ___ SAD ___ ALL PRIVATE ___

Contact Person: Pierce Rumpho **Phone:** 823-1000
Firm: Bohannan-Huston

X Scheduled with the D.R.C. [redacted] in Conf. Room 300
___ No DRC Meeting Scheduled. Please return any comments by _____

The Project Is Scheduled For:
/ / Design Report Review
/ / Pre-Design Meeting
/ / Preliminary Plan Review
X Final Plan Review
X Signoff of Plans
/ / _____

The Project Relates To:
/ / Water / / San. Sewer / / Paving / / Storm Drainage / / _____

The Attached Package Includes:
/D/ Drawings /S/ Spec's /E/ Estimate /R/ Report /M/ Memo Only

Indicated below are the Departments/Divisions that have received project documents and/or are invited to attend. It will be the Project Managers responsiblity to notify consulting engineering firms of date and time of scheduled meetings.

/D/	DRC Chairman	Project Review Section	All Drawings
/D/	Traffic Repres	Transportation Development	All Drawings
/D/	Water Repres.	Utility Design	All Drawings
/D/	Hydro Repres.	Hydrology	All Drawings
/N/	Const. Repres.	Construction	All Drawings
/ /	Ray Chavez	Traffic Operations	All Drawings
/ /	Andre Houle	Street Maintenance	All Paving
/ /	Sergio Miranda	Water (Shutoff Plan)	All Water Shutoff
/ /	Parks Repres.	Parks & Recreation	ALL Landscaping
/ /		Utility Coordinator	ALL PWC & CIP
/ /	Jim Hamel	Transit Department	CIP/Memo
/ /	Rick Roybal	Construction Coordinator	CIP/Memo
/ /	Jim Fink	Line Maintenance	CIP & SAS/Memo
/ /	Joe Dellalonga	City Architect	Arch. Drawings
/ /	Lee Lunsford	SAD Engineer	SAD/Memo
/ /	Joe Luehring	Transportation Develop.	CIP/Memo
/ /	Roger Green	Utility Design	CIP/Water & SAS
/ /	John Liebendorfer	General Services Dept.	Arch. Drawings
/ /	Greg Smith	PWD/Legal	Specs & Dwgs.
/ /	Richard Sertich	Planning Department	CIP/Memos
/ /	CIP Manager	CIP	CIP/Memos
/ /	Donald Bartlett	Risk Management	Arch. Drawings
/ /	_____	_____	_____

DRCNOTIC. 10/19/95

25×10 32×10

0000 0000 0780

CITY OF
Albuquerque
P.O. Box 1293 Albuquerque, NM 87103

June 7, 1996

Martin J. Chávez, Mayor

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: GRADING PLAN FOR TRACT B-3 SEVEN BAR NORTH UNIT 1 (A-13/D7C1)
RECEIVED MAY 14, 1996 R GRADING, W.O., PRELIMINARY& FINAL PLAT
ENGINEER'S STAMP DATED 5/14/96

Dear Mr. Alexander:

Based on the information included in the submittal referenced above, City Hydrology accepts the Grading Plan for Rough Grading & Preliminary Plat. The following comments must be addressed before the Grading Plan will be approved for Work Order & Final Plat:

Based on the Side Lot Grading detail, a retaining wall is required between Lot 1 & 2. The interim conditions must prevent cross lot drainage. Remove the DRC signature boxes from the Plan. Grading Plans are approved by DRB, not by DRC. The Grading Plan & Details are included in the Work Order set for information only.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin

[redacted] P.E.
Civil Engineer, Hydrology

c: Andrew Garcia
Fred Aguirre, DRB 95-526
Tim McNaney, Brown & Assoc, 3411 Candelaria Rd NE 87107

25× 32×

0000 0000 0781

BOHANNAN-HUSTON INC.

COURTYARD I, 7500 JEFFERSON STREET N.E. ALBUQUERQUE, NM 87109
TEL (505) 823 1000 FAX (505) 821 0892

PRINCIPALS

LARRY W. HUSTON, C.P.
MICHAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRANAGA, P.E.
HOWARD C. STONE, P.E.
WILLIAM L. VREEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

May 30, 1996

Kurt Browning, P.E.
Technical Engineer
Albuquerque Metropolitan Arroyo
Flood Control Authority
2600 Prospect NE
Albuquerque, NM 87107

Re: Grading Approval for Tract B-3, Unit 1 at Seven Bar North

Dear Kurt:

The purpose of this letter is to submit a copy of the grading plan for Tract B-3, Unit 1 at Seven Bar North. I have sent a copy of this plan to City Hydrology a couple weeks ago, however I forgot to send you one. I realize AMAFCA and the Hydrology Department need to be at the same information level, and I apologize for any inconvenience.

I have also included the temporary swale and desiltation pond calculations. Please review the plan and contact me on any comments or questions you may have.

Sincerely,

John C Alexander

John Alexander, E.I.
Community Development and Planning

Enclosure

cc: Tim McNaney, Brown & Assoc.
John P. Curtin, COA
James Topmiller, BHI

JUN - 3 1996

E:\CDP\952800\A2440\grading approval.doc - 5/30/96

25× 32×

0000 0000 0782

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Seven Bar North TRACT B3 ZONE ATLAS/DRNG. FILE # A-13-Z/U7C1
DRB #: 95-526 EPC #: _____ WORK ORDER #: 4982.97
LEGAL DESCRIPTION: SEVEN BAR NORTH TRACT B-3 SUBDIVISION, UNIT 1
CITY ADDRESS: _____

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: John Alexander
ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000
OWNER: BROWN & ASSOCIATES CONTACT: Jim McNaney
ADDRESS: 3411 Candelaria Rd PHONE: 883 1674
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
✓ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION
✗ OTHER

PRE-DESIGN MEETING:

___ YES
✗ NO
___ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL
✗ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D. APPROVAL
___ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
✗ FINAL PLAT APPROVAL
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
✗ GRADING PERMIT APPROVAL FINAL
___ PAVING PERMIT APPROVAL
___ S.A.D. DRAINAGE REPORT
___ DRAINAGE REQUIREMENTS
✗ OTHER work order (SPECIFY)

DATE SUBMITTED: 5-14-96
BY: John C Alexander

25× 32×

0000 0000 0783

BOHANNAN-HUSTON INC.

ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS

COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823 1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: John Curtin
C/O Dolores Lopez
Hydro. Dept.
C.O.A.

Requested By: John Alexander
Date: 5-14-96
Time Due: ☒ This A.M. ☐ This P.M.
☐ Rush _____ ☐ By Tomorrow
Job No.: C-952 & A 2440
Job Name: Seven Bar North B-3 Unit 1

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
	1	Cover letter
	1	Drainage Info Sheet
	3 (24x36)	(Grading, Storm Drain, Detail) B-3 Unit 1
	2 (24x36)	Grading for B-3
	copy of previously approved	& Location map & Legal Description

COMMENTS / INSTRUCTIONS

B-3, UNIT 1 Hydro-Grading Submittal

Received By: A. Lopez Date: _____ Time: _____

Misc./Courier Rpt Form 10/94

25×10 32×10

0000 0000 0784

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

PRINCIPALS
LARRY W HUSTON, C.P.
MICHAL M. EMERY, PE
BRIAN G. BURNETT, PE
KERRY L. DAVIS, P.E.
LARRY A. LARRANAGA, PE
HOWARD C. STONE, P.E.
WILLIAM L. VREEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

May 14, 1996

John Curtin, P.E.
City of Albuquerque
Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

Re: Seven Bar North Subdivision, Tract B-3, Unit I

Dear Mr. Curtin:

The purpose of this letter is to submit the final grading plan for Tract B-3, Unit 1 of Seven Bar North. For your convenience and information, I have also attached a copy of Tract B-3 overall grading sheet which you had previously approved with the submittal of the drainage report. No changes have been made in Tract B-3, Unit 1 since the overall approval with the exception of dilution of Unit 2 and the addition of a temporary desilting pond.

Please review the grading plan at your convenience. We anticipate a DRC meeting near the end of May. Please let me or Pierce Runnels know if you have any other questions or comments.

Sincerely,

John C Alexander

John Alexander, E.I.
Project Engineer
Community Development and Planning

Enclosures

cc: Tim McNaney, Brown & Assoc.
James Topmiller, BHI
Pierce Runnels, BHI

E:\CDP\952\9520\A2440\CURTIN.LTR.DOC - 5/13/96

25×10 32×10

0000 0000 0785

FIGURE 1
CITY OF ALBUQUERQUE
NOTICE OF D.R.C. MEETING

5-31-96
(DATE)

PROJECT NO: 4982.97
ZONE ATLAS: A-13

PROJECT NAME: Seven Bar North, Tract B3 (Rpt D007C1)
LOCATION:

TYPE OF PROJECT: AHBA ✓ CIP ___ PWC ___ SAD ___ ALL PRIVATE ___

Contact Person: John Alexander Phone: 823-1000
Firm: Bohannan-Huston

X Scheduled with the D.R.C. on [redacted] in Conf. Room 362
___ No DRC Meeting Scheduled. Please [redacted] with any comments by ___

The Project Is Scheduled For:
/ / Design Report Review
/ / Pre-Design Meeting
/X/ Preliminary Plan Review
/ / Final Plan Review
/ / Signoff of Plans
/ / ___

The Project Relates To:
/X/ Water /X/ San. Sewer /X/ Paving /X/ Storm Drainage / / ___

The Attached Package Includes:
/D/ Drawings /S/ Specs & /E/ Estimate /R/ Report /M/ Memo Only

Indicated below are the Departments/Divisions that have received project documents and/or are invited to attend. It will be the Project Managers responsibility to [illegible] of date and time of scheduled meetings.

/D/ DRC Chairman	Project Review Section	All Drawings
/D/ Traffic Repres	Transportation Development	All Drawings
/D/ Water Repres.	Utility Design	All Drawings
/D/ Hydro Repres. CANCELLED	Hydrology	All Drawings
/D/ Const. Repres.	Construction	All Drawings
/D/ Ray Chavez	Traffic Operations	All Drawings
/ / Andre Houle	Street Maintenance	All Drawings
/D/ Sergio Miranda	Water (Shutoff Plan)	All Paving
/D/ Parks Repres.	Parks & Recreation	All Water Shutoff
/ /	Utility Coordinator	ALL Landscaping
/ / Jim Hamel	Transit Department	ALL PWC & CIP
/ / Rick Roybal	Construction Coordinator	CIP/Memo
/ / Jim Fink	Line Maintenance	CIP/Memo
/ / Joe Dellalonga	City Architect	CIP & SAS/Memo
/ / Lee Lunsford	SAD Engineer	Arch. Drawings
/ / Joe Luehring	Transportation Develop.	SAD/Memo
/ / Roger Green	Utility Design	CIP/Memo
/ / John Liebendorfer	General Services Dept.	CIP/Water & SAS
/ / Greg Smith	PWD/Legal	Arch. Drawings
/ / Richard Sertich	Planning Department	Specs & Dwgs.
/ / CIP Manager	CIP	CIP/Memos
/ / Donald Bartlett	Risk Management	CIP/Memos
/ / ___	___	Arch. Drawings

DRCNOTIC. 10/19/95

5-48

25× 32×

0000 0000 0786

BOHANNAN-HUSTON INC.

ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS

COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: John Curtin P.E.
Hydrology Dept.
C.O.A.

Requested By: John Alexander

Date:

Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush _____ ☐ By Tomorrow

Job No.: TRACT B-3 UNIT 1

Job Name: C95286A2440

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item:

ITEM NO.	QUANTITY	DESCRIPTION
	1	Earthen Swale & De-Siltation Pond Calculations.

COMMENTS / INSTRUCTIONS

John, please insert this with the Seven Bar N TRACT B-3, UNIT 1 submittal (Grade & Drainage) PWL 1983.97

Per our phone conversation: yes B-3 UNIT 1 & B-3, UNIT 2 will be certified seperately. So we will be setting up a meeting for admending with DRB in each Unit.

Thanks for your help. Sincerely, John Alexander

Received By: U. Lopez Date: MAY 17 1996 Time:

Misc/Courier Rqst Form 10/94

25× 32×

0000 0000 0787

TEMPORARY DESILTING
POND CALCULATIONS

BOHANNAN-HUSTON INC.

PROJECT NAME Sun Park North SHEET ____ OF ____
PROJECT NO. TRACT B-2 BY JCH DATE 5-2-96
SUBJECT ____ CH'D ____ DATE ____

25×10 32×10

0000 0000 0788

DESILTING POND AND CONVEYANCE SWALE

THE UPSTREAM UNDEVELOPED BASIN HAS THE FOLLOWING CHARACTERISTICS:

AREA = 3.4 AC 10 yr EVENT

100% TREATMENT 'A' ZONE 1

T_c = 0.2 hr. (conservative)

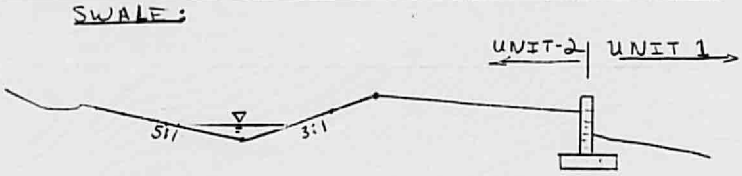
I_{10} = 3.14 in/hr

C_{10} = .08

$Q_{10} = CIA = 0.08\ (3.14)\ (3.4) = .85\ cfs$

$V_{10} = \frac{C}{12} A = \frac{.08}{12}(3.4) = 0.023\ Ac\text{-}ft.$

SWALE:



Q = .85
S = 1%
n = 0.03

CULVERT SPREADSHEET RESULTS.

Y = 1.6 ft

ENERGY HEAD = 0.41 ft.

FREE BOARD = 2.6 ft. minimum

BOHANNAN-HUSTON INC.

PROJECT NAME [illegible] SHEET 1 OF 5
PROJECT NO. BY [illegible] DATE [illegible]
SUBJECT [illegible] CHKD DATE

25×10 32×10

0000 0000 0789

SEDIMENT POND:
PROVIDE A SEDIMENTION POND ABOVE THE NORTH EAST CORNER OF PHASE ONE. IT WILL ACCEPT FLOWS FROM A PORTION OF THE UNDEVELOPED AREA OF FUTURE PHASE 2. (SEE GRADING SHEET FOR REFERENCE). ONLY 3.4 ACRES WILL HAVE RUNOFF EFFECTING THE POND. THE CONVEYED FLOW WILL ENTER THE DESILTING POND VIA A SWALE AND EXIT BY SHEET FLOW INTO THE SKY VIEW CHANNEL.

ASSUME: • DESIGN PARTICLE IS VERY FINE SAND (D=0.06 mm)
• 100 PERCENT REMOVAL OF DESIGN PARTICLE FOR 10 YR EVENT
• V_s = 0.009 fps for Very FINE SANDS.

where $Q_{10} = 0.85$ fs
$V_{10} = 0.023$

Surface Area = SA = (1.2) (Q) / V_s

SA = 1.2 (.85)/.009 = 113.3 sF

ASSUME POND LENGTH IS 3x POND WIDTH.
OR (3W) W = 113.3 sf

say: W = 10'
L = 30'

FROM USLE SPREAD SHEET THE AVERAGE YIELD FOR THE BASIN IS: 50 CY or 1350 CF

ASSUME: MAXIMUM SEDIMENT STORAGE DEPTH = 2'
MINIMUM SETTLING DEPTH = 1'

BOHANNAN-HUSTON INC.

PROJECT NAME 7-Day N 8-3A SHEET 2 OF 5
PROJECT NO. 95216A2440 BY JCA DATE 5-3-96
SUBJECT Sediment Pond Calc CH'D DATE

25×10 32×10

0000 0000 0790

VOLUME IS A FUNCTION OF THE DEPTH 'Z'

BOTTOM AREA = 10 X 30 = 300 SF

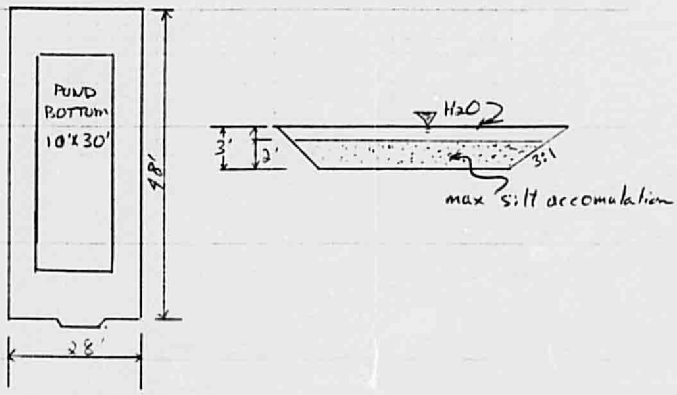
TOP AREA = $(10 + 3Z)(30 + 3Z) = 9Z^2 + 120Z + 300$

VOLUME = $\frac{(\text{BOTTOM A}) + (\text{TOP A})}{2} Z = 1350 \text{ CF}$

VOLUME = $4.5Z^3 + 60Z^2 + 300Z \geq 1350$ CF

FOR SEDIMENT VOLUME = 1350 CF
A Z of 3' MINIMUM IS REQUIRED.

@ Z = 3' VOLUME = $4.5(3)^3 + 60(3)^2 + 300(3) = \underline{1562 \text{ CF}}$ ok



POND WILL DROP OUT SEDIMENT AND EXIT BY SHEET FLOW.

$Q_{in} = .25 \text{ cfs}$

$Q_{out} = .35 \text{ cfs}$

BOHANNAN-HUSTON INC.

PROJECT NAME	[illegible]	SHEET	3	OF	5
PROJECT NO.	C95286 A2 [illegible]	BY	JCA	DATE	[illegible]-96
SUBJECT	Pond Area	CHD		DATE	

25×10 32×10

0000 0000 0791

***** PC PROGRAM STREAM MAY 1996 *****

INTERIM SWALE BETWEEN PHASES

MANNING'S N= .03 SLOPE= .01

POINT	DIST	ELEV	POINT	DIST	ELEV
1	0.00	3.00	3	20.00	3.00
2	15.00	0.00			

WSEL (FT)	DEPTH INC (FT)	FLOW AREA SQ.FT.	FLOW RATE (CFS)	WETTED PER (FT)	FLOW VEL (FPS)	TOPWID (FT)	VEL HEAD (FT)	ENERGY HEAD (FT)
0.01	0.01	0.00	0.0	0.08	0.14	0.08	0.00	0.01
0.02	0.02	0.00	0.0	0.17	0.23	0.16	0.00	0.02
0.03	0.03	0.00	0.0	0.25	0.29	0.24	0.00	0.03
0.04	0.04	0.01	0.0	0.33	0.36	0.32	0.00	0.04
0.05	0.05	0.01	0.0	0.41	0.41	0.40	0.00	0.05
0.06	0.06	0.01	0.0	0.50	0.47	0.48	0.00	0.06
0.07	0.07	0.02	0.0	0.58	0.52	0.56	0.00	0.07
0.08	0.08	0.03	0.0	0.66	0.57	0.64	0.00	0.08
0.09	0.09	0.03	0.0	0.74	0.61	0.72	0.01	0.10
0.10	0.10	0.04	0.0	0.83	0.66	0.80	0.01	0.11
0.11	0.11	0.05	0.0	0.91	0.70	0.88	0.01	0.12
0.12	0.12	0.06	0.0	0.99	0.74	0.96	0.01	0.13
0.13	0.13	0.07	0.1	1.07	0.78	1.04	0.01	0.14
0.14	0.14	0.08	0.1	1.16	0.82	1.12	0.01	0.15
0.15	0.15	0.09	0.1	1.24	0.86	1.20	0.01	0.16
0.16	0.16	0.10	0.1	1.32	0.90	1.28	0.01	0.17
0.17	0.17	0.12	0.1	1.40	0.94	1.36	0.01	0.18
0.18	0.18	0.13	0.1	1.49	0.97	1.44	0.01	0.19
0.19	0.19	0.14	0.1	1.57	1.01	1.52	0.02	0.21
0.20	0.20	0.16	0.2	1.65	1.04	1.60	0.02	0.22
0.21	0.21	0.18	0.2	1.73	1.08	1.68	0.02	0.23
0.22	0.22	0.19	0.2	1.82	1.11	1.76	0.02	0.24
0.23	0.23	0.21	0.2	1.90	1.15	1.84	0.02	0.25
0.24	0.24	0.23	0.3	1.98	1.18	1.92	0.02	0.26
0.25	0.25	0.25	0.3	2.07	1.21	2.00	0.02	0.27
0.26	0.26	0.27	0.3	2.15	1.24	2.08	0.02	0.28
0.27	0.27	0.29	0.4	2.23	1.28	2.16	0.03	0.30
0.28	0.28	0.31	0.4	2.31	1.31	2.24	0.03	0.31
0.29	0.29	0.34	0.5	2.40	1.34	2.32	0.03	0.32
0.30	0.30	0.36	0.5	2.48	1.37	2.40	0.03	0.33
0.31	0.31	0.38	0.5	2.56	1.40	2.48	0.03	0.34
0.32	0.32	0.41	0.6	2.64	1.43	2.56	0.03	0.35
0.33	0.33	0.44	0.6	2.73	1.46	2.64	0.03	0.36
0.34	0.34	0.46	0.7	2.81	1.49	2.72	0.03	0.37
0.35	0.35	0.49	0.7	2.89	1.52	2.80	0.04	0.39
0.36	0.36	0.52	0.8	2.97	1.55	2.88	0.04	0.40
0.37	0.37	0.55	0.9	3.06	1.57	2.96	0.04	0.41
0.38	0.38	0.58	0.9	3.14	1.60	3.04	0.04	0.42
0.39	0.39	0.61	1.0	3.22	1.63	3.12	0.04	0.43
0.40	0.40	0.64	1.1	3.30	1.66	3.20	0.04	0.44
0.41	0.41	0.67	1.1	3.39	1.69	3.28	0.04	0.45
0.42	0.42	0.71	1.2	3.47	1.71	3.36	0.05	0.47
0.43	0.43	0.74	1.3	3.55	1.74	3.44	0.05	0.48
0.44	0.44	0.77	1.4	3.63	1.77	3.52	0.05	0.49
0.45	0.45	0.81	1.5	3.72	1.79	3.60	0.05	0.50
0.47	0.47	0.88	1.6	3.88	1.85	3.76	0.05	0.52
0.48	0.48	0.92	1.7	3.97	1.87	3.84	0.05	0.53
0.49	0.49	0.96	1.8	4.05	1.90	3.92	0.06	0.55
0.50	0.50	1.00	1.9	4.13	1.92	4.00	0.06	0.56
0.51	0.51	1.04	2.0	4.21	1.95	4.08	0.06	0.57
0.52	0.52	1.08	2.1	4.30	1.98	4.16	0.06	0.58
0.53	0.53	1.12	2.2	4.38	2.00	4.24	0.06	0.59
0.54	0.54	1.17	2.4	4.46	2.03	4.32	0.06	0.60
0.55	0.55	1.21	2.5	4.54	2.05	4.40	0.06	0.61

475

25×10 32×10

0000 0000 0792

03-May-96

MODIFIED UNIVERSAL SOIL LOSS EQUATION

DESCRIPTION	VARIABLE	UNIT	BASIN
Drainage Area	DA	Sq. Mi.	0.053
Storm Runoff	V	Acre-ft	0.023
Peak Flow	Qp	cfs	0.850
Slope	S	Ft/Ft	0.100
Slope Angle	THETA	Radians	0.100
	L	Feet	100.000
Coefficient for LS Equation	n		0.400
Rainfall	R		31.469
Soil Erodability*	K		0.280
Slope Length Factor	LS		1.329
Cover*	C		0.170
Support Practice Factor	P		1.000
Sediment Yield	A	Tons/Acre	1.990
		Tons	67.641
		Cy	**50.104**

Estimated Soil Unit Weight (Lbs/Cf) = 100

CDP1:[C9425040A2400 HYDRO]usle3a.wk4

5 of 5

25×10 32×10

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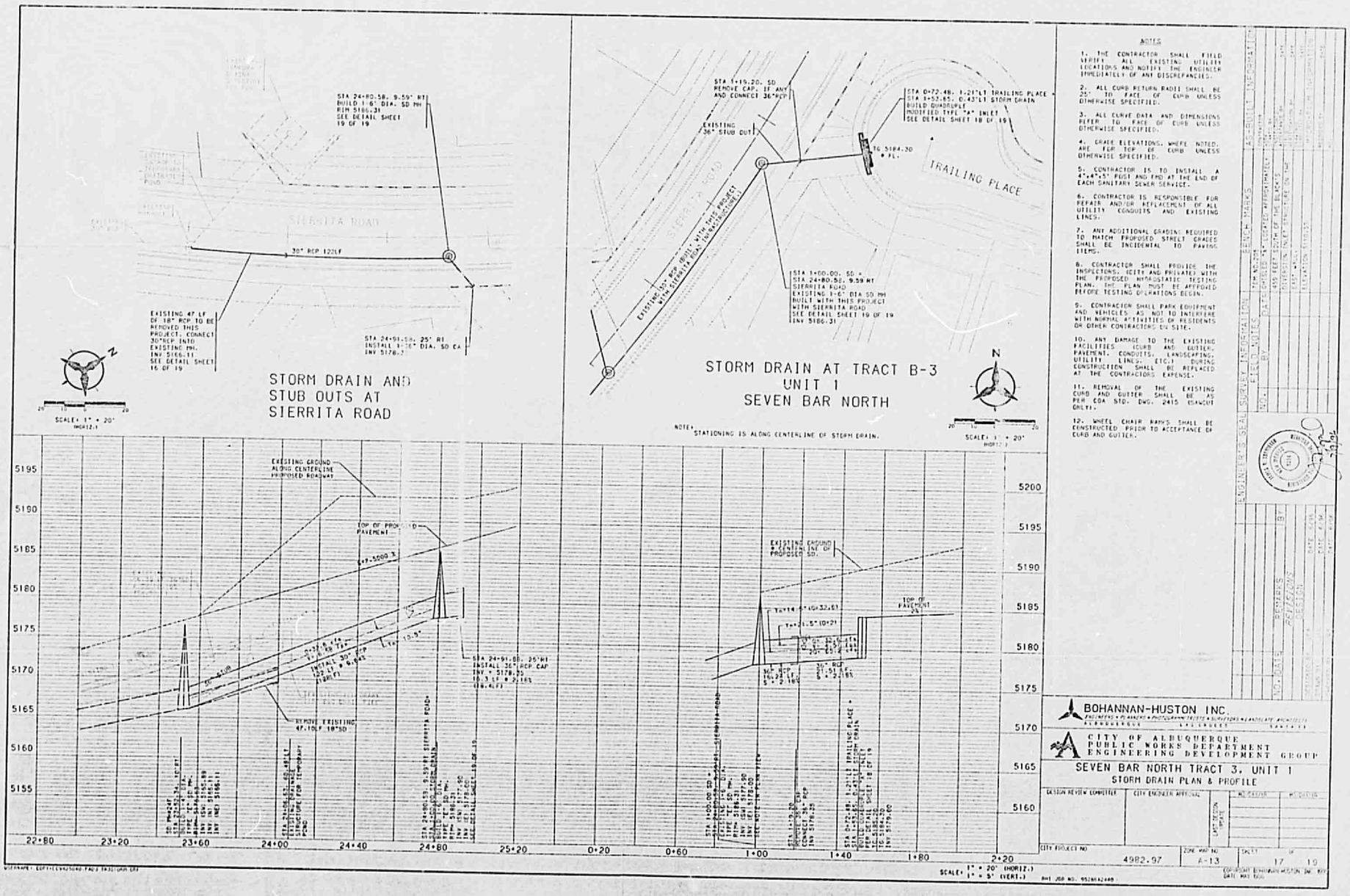

25× 32× 25×

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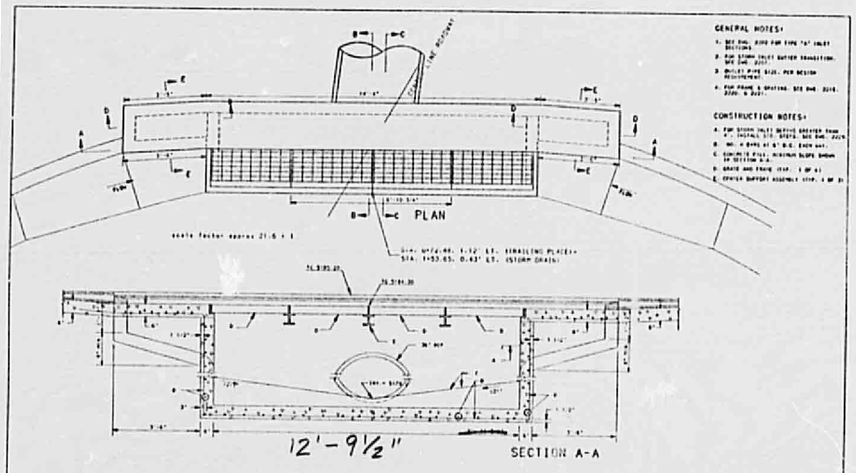
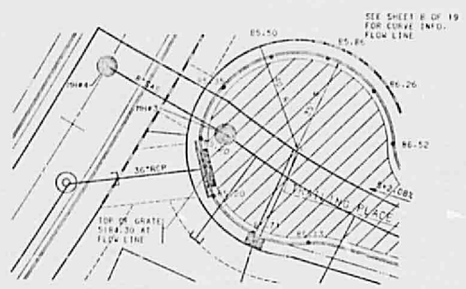


MODIFIED TYPE "A" INLET WITH QUADRUPLE GRATE & DOUBLE WINGS - STA. 0+72.46, 1.12' T. TRAILING PLACE

NO SCALE



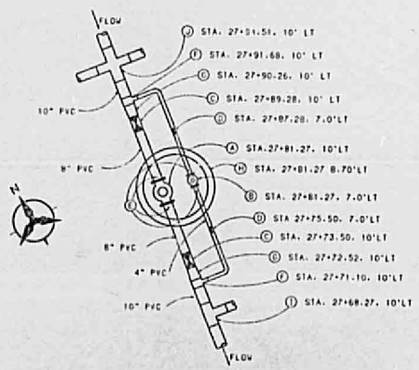
TRAILING PLACE, WEST CUL-DE-SAC DETAIL

20 SCALE

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TERRAIN DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT PREPARED BY VINYARD AND ASSOCIATES DATED AUGUST 31, 1994.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.

2 1
6 - 10 3/4
2 - 11 3/8
2 - 11 3/8
12'-9 ½"



PRESSURE REDUCING STATION

NOT TO SCALE
SEE KEYED NOTES TO RIGHT
STATIONING REFERS TO CENTERLINE STATIONING, SIERRITA ROAD
ALL CONNECTING PIPES SHALL BE DUCTILE IRON PIPE

PRESSURE REDUCING STATION NOTES

(A) INSTALL 8" PRESSURE REDUCING VALVE CLAYTON FLANGED 92G-01-CSBJ SERIES CLASS 150
(B) INSTALL 4" PRESSURE REDUCING VALVE CLAYTON FLANGED 92G-01-CSBJ SERIES CLASS 150
(C) 8" GATE VALVE w/ TYPE "A" BOX & LID FLANGED
(D) 4" GATE VALVE w/ TYPE "A" BOX & LID FLANGED
(E) INSTALL PRESSURE GUAGES w/ 1/2" PETCOCK CONNECTIONS, FREEZE PROOF AND LIQUID FILLED.
(F) 10"x10"x4" TEE FLANGED w/ BLOCKING
(G) 10"x8" REDUCER FLANGED w/ BLOCKING
(H) INSTALL A 6' DIA. TYP "C" MANHOLE IN A MANNER SIMILIAR TO COA STD DWG 2353 INCLUDING GROUTING AND FLOOR DRAIN. INSTALL ALL PEDESTALS, PETCOCK CONNECTIONS AND THE TWO PRESSURE REDUCING VALVES.
RIM ELEV=5203.44
INVERT ELEV=5196.50
USE US FOUNDRY AND MGF. CORP. "MATCH THD 48x 48 STEEL LID RATED FOR TRAFFIC OR APPROVED EQUAL.
(I) 10"x10"x8" TEE FLANGED W/ BLOCKING
(J) 10" X 8" CROSS FLANGED W/ BLOCKING

BHI JOB NO C5620G42440

ENGINEER'S SEAL SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
BENCH MARKS
TBM-50-2000 ELEV. 5184.15
CHISELED "X" LOCATED APPROXIMATELY 455 FEET SOUTH OF THE BLANKS DIVERSION INLET STRUCTURE ON THE EAST WALL.
ELEV. 5185.55
AS-BUILT INFORMATION
CONTRACTOR
REVISIONS
REMARKS
DATE
BY
NO.
ALL DATE
INSPECTOR
CHECKED BY
DATE
PROJECT ENGINEER
DATE
MICROFILM INFORMATION
FILM NO.
FRAME NO.

BOHANNAN-HUSTON INC.
ALBUQUERQUE LAS CRUCES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH TRACT B-3, UNIT 1
MISCELLANEOUS DETAILS-1

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | NO CHANGE | NO CHANGE
LAST REVISION DATE

CITY PROJECT NO 4982.97 | ZONE MAP NO A-13 | SHEET 18 OF 19

25×10 32×10 25×10

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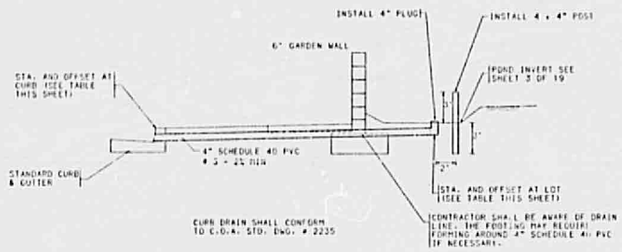


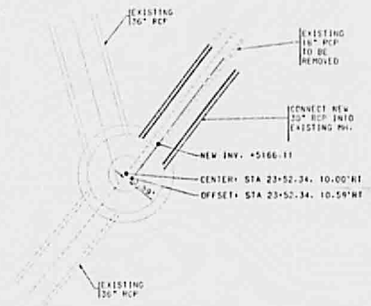
TYPICAL CURB DRAIN SECTION

NO SCALE

CURB DRAIN TABLE

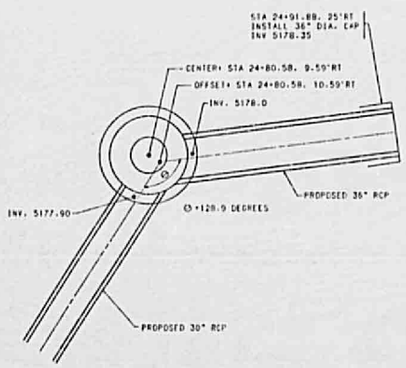
LOT	CURB DRAIN INVERT AT LOT	STATION & OFFSET AT LOT	FLOWLINE ELEV.	CURB DRAIN INVERT EL.	STATION & OFFSET AT CURB
66	10.19	29+32.42, 51.00'RT.	09.45	09.49	29+32.65, 16.01'RT.
67	07.57	28+82.71, 51.00'RT.	06.83	06.87	28+82.15, 16.00'RT.
68	05.72	28+37.72, 50.94'RT.	04.98	05.02	28+35.77, 16.00'RT.

STATIONING WITH RESPECT TO CENTERLINE SIERRITA ROAD



EXISTING 6" DIA. MH.
STA 23+52.34, 10'RT.
SIERRITA ROAD

NO SCALE



PROPOSED 6" DIA. MH.
STA 24+80.58, 9.59'RT.
SIERRITA ROAD

NO SCALE

GENERAL NOTES

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ENGINEER'S SEAL, SURVEY INFORMATION, FIELD NOTES

BENCH MARKS

AS-BUILT INFORMATION

BOHANNAN-HUSTON INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH UNIT B-3, UNIT 1
MISCELLANEOUS DETAILS-2

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | CONSTRUCTION INSPECTOR | INDICATOR | INDICATOR

CITY PROJECT NO 4982.97 | ZONE MAP NO A-13 | SHEET 19 OF 19

BHI JOB NO E95.0962.440

25×10 32×10 25×10

0000 0000 0796

PLANS/PLATS ON FILE

FILE DESC: A13/D7C1

PLANS/PLATS 3

25×10 32×10

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