

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 19, 1990

Dennis Lorenz, P.E.
Espey, Huston & Associates, Inc.
317 Commercial Street, NE
Albuquerque, New Mexico 87102

RE: GRADING & DRAINAGE REPORT FOR MARKET CENTER EAST PHASE II,
SUBMITTED JANUARY 10, 1990, FOR BUILDING PERMIT AND S.O.
19 APPROVALS (K-21/D16D)

Dear Mr. Lorenz,

Your submittal, sheets C-3 and C-4, with your stamp dated 11-15-89, is approved for building permit sign-off by the Hydrology Section. Please include the approved plans in the construction sets routed for sign-off.

These plans are also approved for construction of the drainage facilities within the public right-of-way. The contractor will be required to obtain an excavation permit for this work.

If you have any questions, please call me at 768-2650.

Cordially,

Stuart Reeder

G. Stuart Reeder, P.E.
Civil Engineer/Hydrology

xc: Becky Sandoval, Permits

GSR
(WP+288)

DRAINAGE INFORMATION SHEET

PROJECT TITLE: BLOG, F - Market Center East ZONE ATLAS/DRNG, FILE#: K-21/10160
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Portion of Tract 2A5A1A Horne Development Addition
CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: Gregory J. Krenik, PE
ADDRESS: PO Box 90606 PHONE: 345-2010
OWNER: See ARCH. CONTACT: George Rainhart
ADDRESS: _____ PHONE: 884-9110
ARCHITECT: Rainhart CONTACT: George Rainhart
ADDRESS: 2325 SAN PEDRO PHONE: 884-9110
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
☒ CERTIFICATION OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (Specify)

DATE SUBMITTED: 2-29-96

BY: Gregory J. Krenik, PE

FILED
MAR - 4
1996



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 11, 1996

Greg Krenik
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: ENGINEER CERTIFICATION FOR BUILDING F MARKET CENTER EAST
(K21-D16D) CERTIFICATION STATEMENT DATED 2/29/96.

Dear Mr. Krenik:

Based on the information provided on your March 4, 1996 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

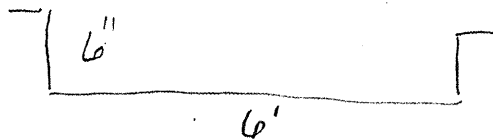
BJM/dl

c: Andrew Garcia
File

C. OUTFALL CHANNEL - { AP #3 } -

$Q = 17.1 \text{ CFS}$

CHECK BY MANNING'S



WHERE: $n = 0.013$
 $S = 0.01$
 $A = 3.0 \text{ SF}$
 $P = 7.0'$
 $R = 0.43$

$Q = 19.5 \text{ CFS} > Q_{100}$

=> PROVIDE 3 - 24" SIDEWALK CULVERTS.

2. CHECK EXISTING S/W CULVERT AT AP #4 ($Q_{100} = 0.1 \text{ CFS}$)

EXISTING 3 - 24" CULVERTS

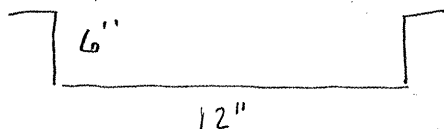
CHECK BY WEIR:

WHERE: $L = 6'$
 $H = 0.5'$

$Q = 3.33 (6) (0.5)^{1.5} = \underline{\underline{7.1 \text{ CFS} > Q_{100}}}$

3. SIDEWALK CULVERTS & CHANNELS

A. AP #5 ($Q_{100} = 1.3 \text{ CFS}$)



• CHECK ENTRANCE CONDITION BY WEIR:

WHERE : $L = 2.0'$ $H = 0.5'$ $Q = 3.33(2)(.5)^{1.5} = \underline{\underline{2.4 \text{ cfs}}} > Q_{100}$

B. AP #6 ($Q_{100} = 4.1 \text{ cfs}$)

CHECK BY WEIR : WHERE $L = 4'$ $H = 0.5'$
 $Q = 3.33(4)(.5)^{1.5} = \underline{\underline{4.8 \text{ cfs}}} > Q_{100}$

4. EXISTING SD AND DROP INLET.

A. DROP INLET (AP #8)

$Q_{100} = 21.4 \text{ cfs}$

CHECK HEAD REQ'D OVER GRATE BY WEIR:

$L = \text{PERIMETER OF DOUBLE 'D'} = 16.98'$

$H = \left[21.4 / 3.33(16.98) \right]^{2/3} = \underline{\underline{0.52'}} \text{ PROVIDED}$

B. CHECK 24" RCP FOR CAPACITY BY MANNINGS

WHERE : $S = 0.04$ (EXIST.)

$n = 0.013$

$A = 3.14$

WP $R = 0.50$

$Q = 45.4 \text{ cfs} > Q_{100}$

$Q_{CAP} = 245 \text{ cfs OK}$

NOTES:

$R = 2\pi = 6.28'$ IF $S = 0.004$

$Q = 77.3 \text{ cfs OK}$

eh

5. INTERIM SEDIMENTATION PONDS (BASINS X ; XI)

EXISTING PONDS ARE LOCATED WITHIN BOTH BASINS
WITH VOLUMES AS FOLLOWS:

BASIN X (AP # 9) $V = 1800$ CF

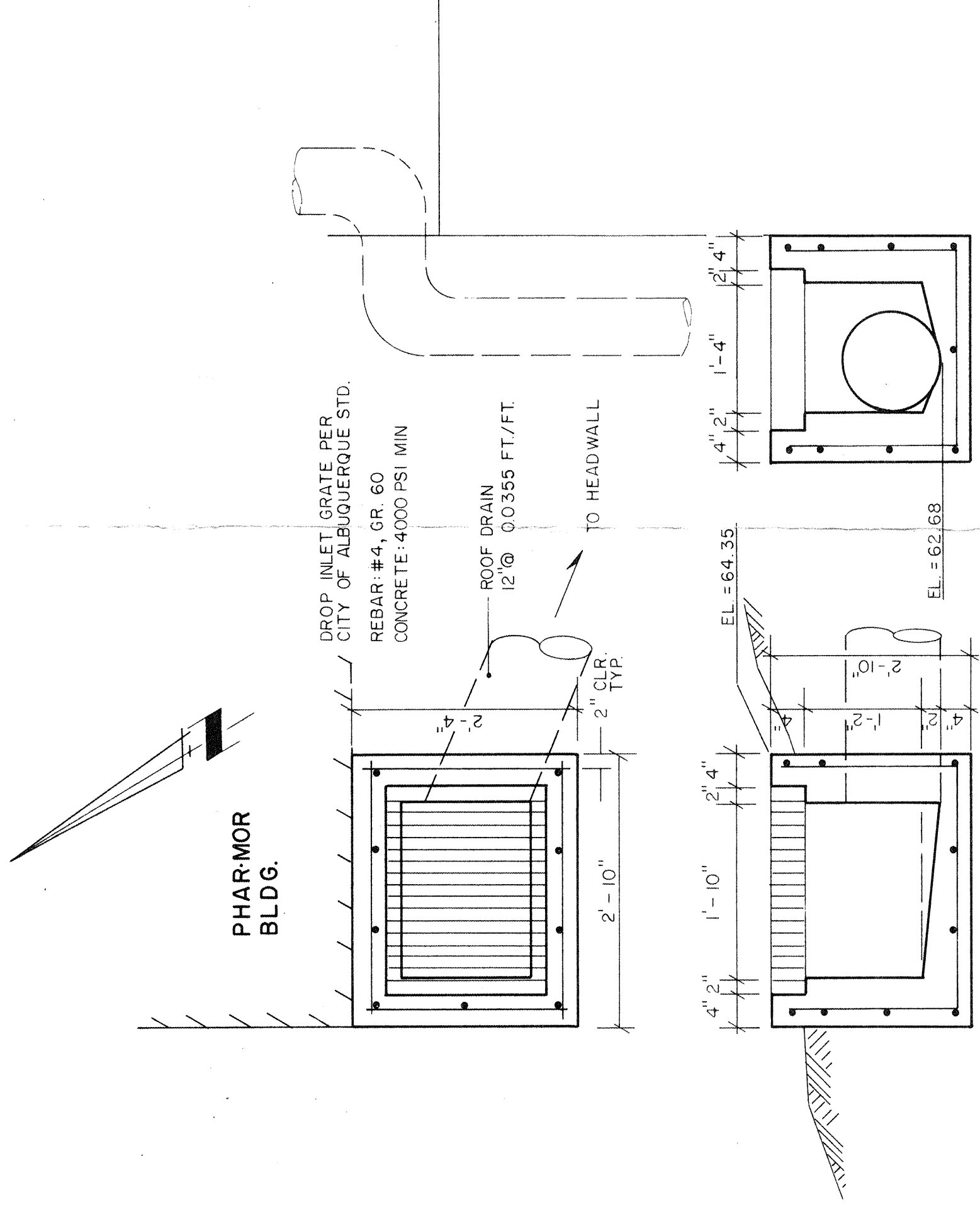
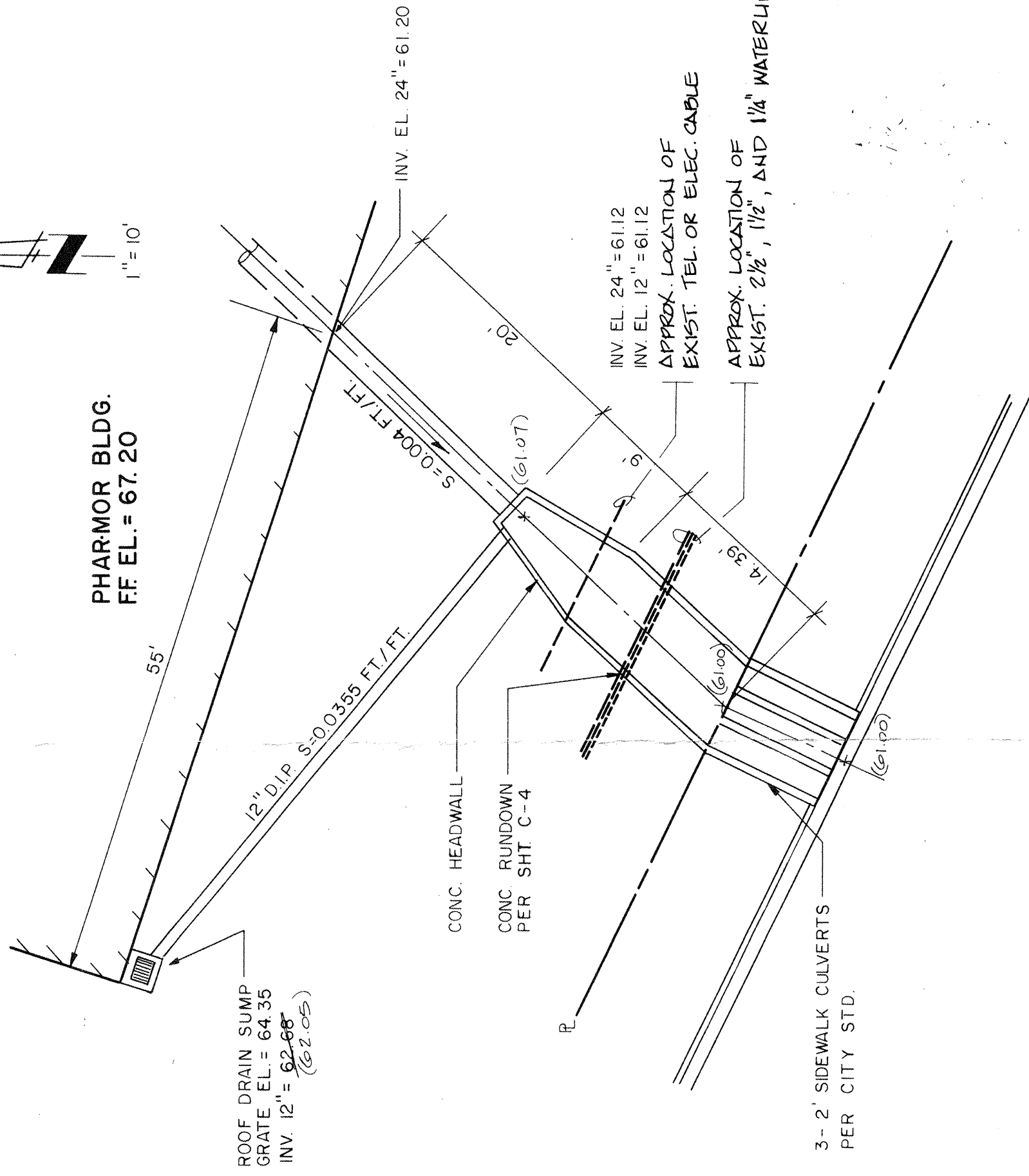
BASIN XI (AP # 10) $V = 2800$ CF

REQUIRED VOLUMES (10 YEAR GHR) ARE AS FOLLOWS:

BASIN X ; $V_{10} = 1462$ CF

BASIN XI ; $V_{10} = 2614$ CF

=> EXISTING POND VOLUMES ARE SATISFACTORY



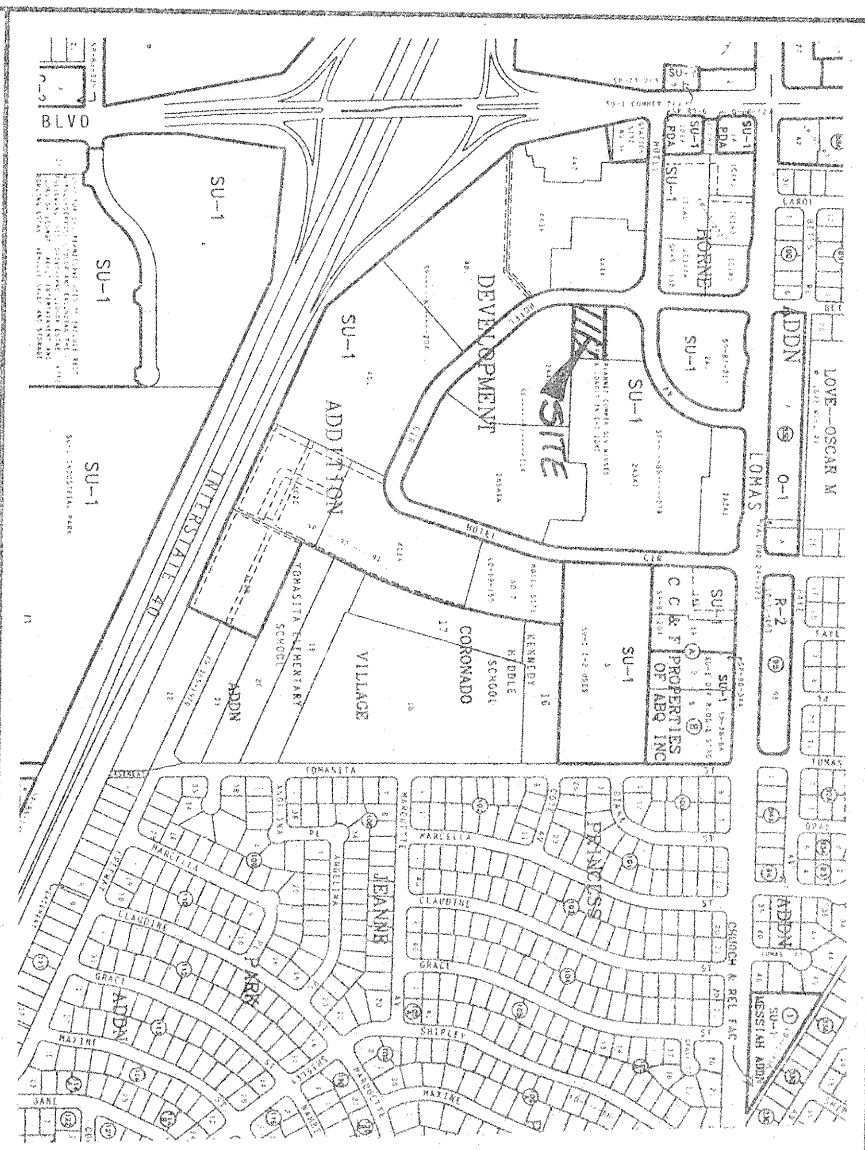
ROOF DRAIN / HEADWALL DETAIL

DRAINAGE CERTIFICATION SHT 2/3
AS BUILT ELEVATIONS ENCLOSED IN PARENTHESIS
12/12/90

ROOF DRAIN SUMP

N.T.S.

DESIGN 9/90



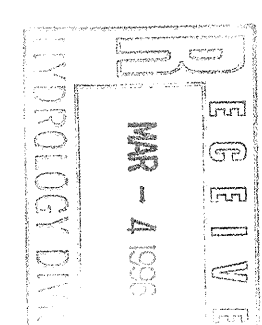
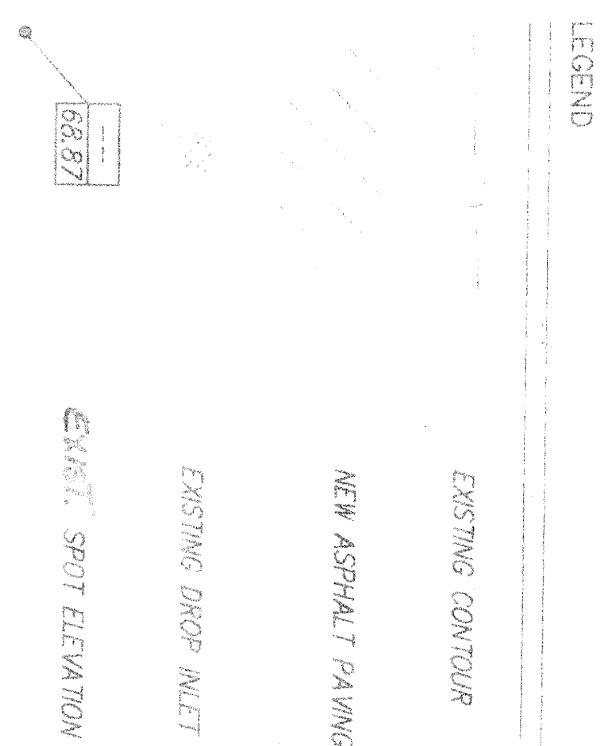
TBM (TEMPORARY BENCHMARK)
TOP OF EXISTING DROP INLET EL. = 66.00

STATION MARK IS A STANDARD INCHES BRASS TABLET STAMPED "TA-1-40-3" AND SET IN CONCRETE MOUNTED TO FLUSH WITH THE GROUND. TO REACH STATION FROM INTERSECTION AT EUBANK BLVD. AND CENTRAL AVE. GO NORTH ON EUBANK 0.7 MILES TO BRIDGE OVER INTERSTATE 40. STATION IS LOCATED IN THE MEDIAN OF EUBANK BLVD., 4TH SOUTH END OF THE BRIDGE.

X=415,073.15, Y=1,483,440.00, Z=5652.804

LEGAL DESCRIPTION

A PORTION OF TRACT 245414 HORNE DEVELOPMENT ADDITION MARKET CENTER EAST



della torre • mainmart. pa

architectes c/o
north town office park
201 december rd n.e. building 2 - suite 200
charlottesville n.m. 61109 / 505-026-9611

Sheet - C1

START DATE:

BLDG. F @ MARKET CENTRE EAST 1
GRADING & DRAINAGE PLAN

dmg
D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 345-2010

Designed: GJK	Drawn: JMB	Checked: DMS	Sheet 1 of 1
Scale: AS SHOWN	Date: 8/5/56	Job: 95056	

