



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 26, 2003

Mark Goodwin, P.E.
Mark Goodwin & Assoc.
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: RASTRA BUILDING (2 NEW BUILDINGS- NOT PROPOSED) (B-13/D20)
(4485 Irving Blvd NW)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 1/14/2002
ENGINEERS CERTIFICATION DATED 12/20/2002

Dear Amy:

Based upon the information provided in your Engineers Certification submittal dated 12/23/2002, and based upon AMAFCA's approval of the outfall via letter dated 2/7/2003, the above referenced site is approved for Permanent Certificate of Occupancy for the 2 New Buildings.

The indicated proposed buildings will need to also be certified by the Engineer when completed to acquire a Certificate of Occupancy for those buildings.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin

Hydrology Plan Checker

Development & Bldg. Ser. Division

C: Certificate of Occupancy Clerk, COA
✓ drainage file
approval file

TIM EICHENBERG, CHAIR
DANIEL HERNANDEZ, VICE-CHAIR
RONALD D. BROWN, SECRETARY-TREASURER
LINDA STOVER, ASST. SECRETARY-TREASURER
DANIEL LYON, DIRECTOR

JOHN P. KELLY, P.E.
EXECUTIVE ENGINEER



**Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority**

2000 PROSPECT N.E. - ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-2215 FAX (505) 884-0214

February 7, 2003

Ms. Teresa A. Martin
City of Albuquerque
Development & Building Services Division
600 2nd Street NW
Albuquerque, NM 87102

B-13/D20

Re: Rastra Building, 4485 Irving Blvd. NW, ZAP B-13
Engineer's Certification for Certificate of Occupancy
Engineer: Mark Goodwin, Certification Stamp Dated 12/20/02

Dear Terri:

I have visited the referenced site and found the storm drain outfall to the Calabacillas Arroyo has been constructed in substantial compliance with the plans. Therefore, I do not object to issuance of a Certificate of Occupancy. If you have any questions, please call me at 884-2215.

Sincerely,
AMAFCA

Lynn M. Mazur

Lynn M. Mazur, P.E.
Development Review Engineer

HYDROLOGY NOTES

THESE BUILDINGS ARE NOT IN THE 100-YEAR FLOOD PLAIN PER FIRM MAP #35001C0108D. THE 100-YEAR FLOOD IS CONTAINED IN THE CALABACILLAS ARROYO ALONG THIS SITE.

TRACT C-1-A IS BEING DEVELOPED NOW. TRACT C-1-B WILL BE DEVELOPED IN THE NEAR FUTURE. THE PROPOSED RIP-RAP PAD AND DROP STRUCTURE WILL BE DONE PRIOR TO THE FINAL DEVELOPMENT OF TRACT C-1-A.

FOR THE DEVELOPMENT OF TRACT C-1-A, A TEMPORARY DRAINAGE SWALE (WITH A CROSS-LOT DRAINAGE EASEMENT) WILL TAKE THE FLOW (25.16 cfs) ACROSS TRACT C-1-B. THIS WILL COMBINE WITH FLOW FROM BASIN "B" (24.77 cfs) AND GO INTO AN INLET ON TRACT C-1-B. FROM THE INLET THE FLOW WILL GO INTO A 36" RCP STORM PIPE AND THEN INTO A 48" RCP PIPE WITH A RING CHAMBER. THE FLOW WILL THEN DISCHARGE INTO THE ARROYO. PLEASE SEE THE OUTFALL DETAIL. THIS PIPE IS SIZED FOR DEVELOPED FLOW FROM BASINS "A" & "B", 49.93 cfs. WHEN TRACT C-1-B IS DEVELOPED, IT WILL BE DESIGNED TO ACCEPT FREE DISCHARGE FROM TRACT C-1-A.

LEGEND

- 5100 — EXISTING CONTOUR (MAJOR)
- 5101 — EXISTING CONTOUR (MINOR)
- TC= — EXISTING TOP CURB ELEVATION
- FL= — EXISTING FLOWLINE ELEVATION
- x 00.0 — EXISTING SPOT ELEVATION
- — EXISTING CONCRETE CURB
- — EXISTING CONCRETE/SIDEWALK
- — EXISTING WALL OR HEAD WALL
- — EXISTING TREE
- — EXISTING LIGHT POLE
- — EXISTING SIMON & LI LINE
- 91.50 • — PROPOSED SPOT ELEVATION
- 90.25 TG — PROPOSED TOP OF GRATE ELEVATION
- INV.=87.00 — PROPOSED INVERT ELEVATION
- — PROPOSED STORM DRAIN INLET
- — PROPOSED STORM DRAIN PIPE
- — PROPOSED SWALE
- — PROPOSED SLOPE SYMBOL
- — PROPOSED DRAINAGE BASIN LINE

SWALE "A" DETAIL

N.T.S.

CL

9.0'

1.0'

2" ASPHALT

CL

11.0'

1.375'

2" ASPHALT

N.T.S.

CL

11.0'

1.375'

2" ASPHALT

N.T.S.

CL

11.0'

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1.375'

2" ASPHALT

N.T.S.

CL

11.0'

1.375'

2" ASPHALT

KEYED NOTES

- ① N.M.S.H.T.D. 5'x5' MEDIAN DROP INLET, BMDI-006. ALSO SEE STORM INLET DETAIL THIS SHEET. ASPHALT IS TO GO AROUND INLET TO TOP OF BERM TO BE INSTALLED WITH IRVING BUSINESS PARK PROJECT. TG= 90.00 INV.= 85.50
- ② FUTURE DROP STRUCTURE PER IRVING BUSINESS PARK PLANS AND TO BE DONE BY THAT PROJECT.
- ③ 36" PERMANENT RCP STORM PIPE.
- ④ TEMPORARY SWALE "A" PER DETAIL THIS SHEET.
- ⑤ TEMPORARY SWALE "B" PER DETAIL THIS SHEET.
- ⑥ PROPOSED RIP-RAP PER IRVING BUSINESS PARK PLANS AND TO BE DONE WITH THAT PROJECT.
- ⑦ PROPOSED 48" PERMANENT RCP STORM PIPE TO BE INSTALLED WITH IRVING BUSINESS PARK PROJECT.

RASTRA BUILDING

GRADING AND DRAINAGE PLAN

MARK GOODWIN & ASSOCIATES
CONSULTING ENGINEERS

P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: DMG Drawn: DER Checked: DMG Sheet 2 of 3
Scale: 1" = 50' Date: 01-14-02 Job: A01121

START TIME=0.0
RASTRA BUILDING
FILE: C:\HYDRO\RASTRA.DAT OCTOBER 2001 BY:MMY
100-YEAR 6-HOUR STORM EVENT
RAINFALL TYPE=1 RAIN QUANTER=0.0 IN
RAIN ONE=1.93 IN RAIN SIX=2.2 IN
RAIN TEN=2.65 IN DT=0.033333 HR
DEVELOPED CONDITIONS - BASIN A
COMPUTE NH HYD ID=1 HYD NO=100.00 AREA=0.0095 SQ MI
PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00
TP=0.1333 HR MASS RAINFALL=1
ID=1 CODE=1
PRINT HYD
DEVELOPED CONDITIONS - BASIN B
COMPUTE NH HYD ID=2 HYD NO=200.00 AREA=0.0086 SQ MI
PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
TP=0.1333 HR MASS RAINFALL=1
ID=2 CODE=1
PRINT HYD
FINISH

ANYNO SURFARY TABLE (ANYNO194) - ANYNO Hydrologic Model - January, 1994
INPUT FILE = RASTRA.DAT

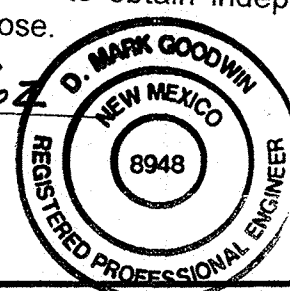
COMMAND	HYDROGRAPH	FROM TO	NO.	AREA	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
START	RAINFALL TYPE=1	100.00	1	0.0095	25.16	902	1.77625	1.500	4.137	TIME= 2.200
COMPUTE NH HYD		200.00	2	0.0086	24.77		1.96689	1.500	4.30	TIME= 2.200
COMPUTE NH HYD										
FINISH										

DRAINAGE CERTIFICATION

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 1/14/02. The record information edited onto the original design document has been obtained by Tim Aldrich, NMPS 7719, of the firm Aldrich Land Surveying. I further certify that I have personally visited the project site on 12/17/02, and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

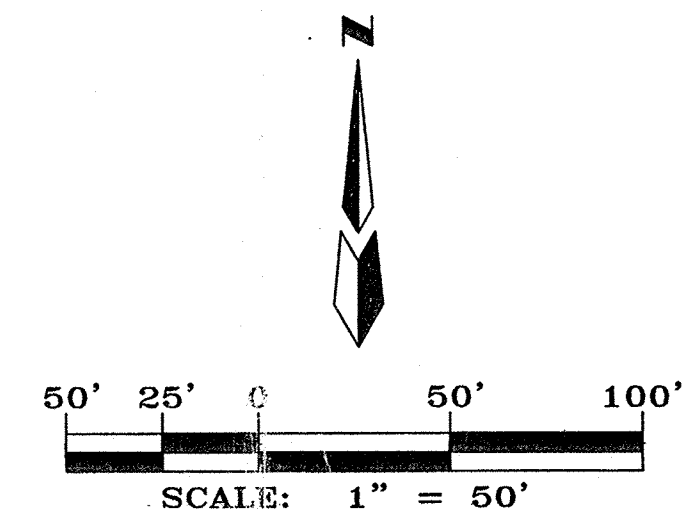
The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Mark Goodwin, PE
NMPE 8948

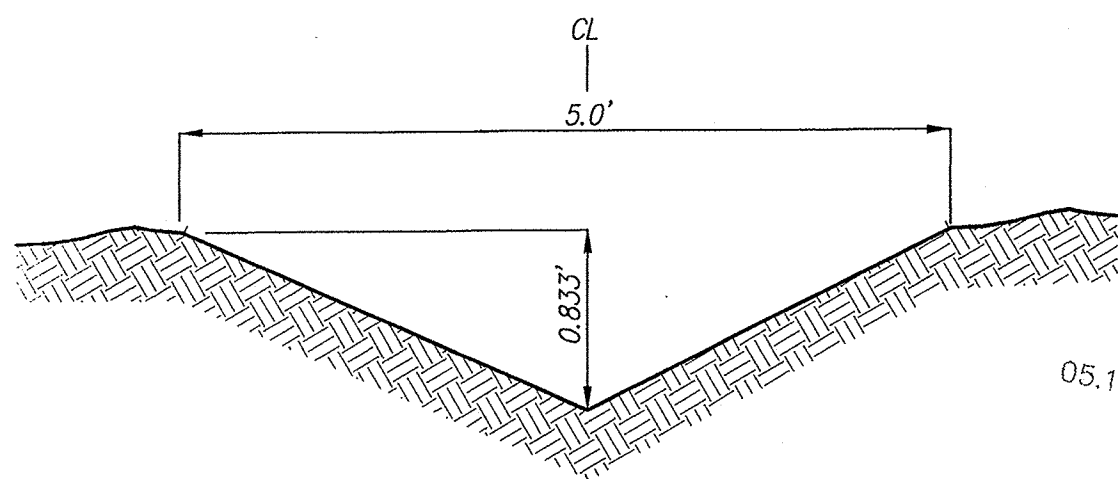


RECORD DRAWING
I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Salls Brothers Construction Inc., and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin, PE
NMPE 8948

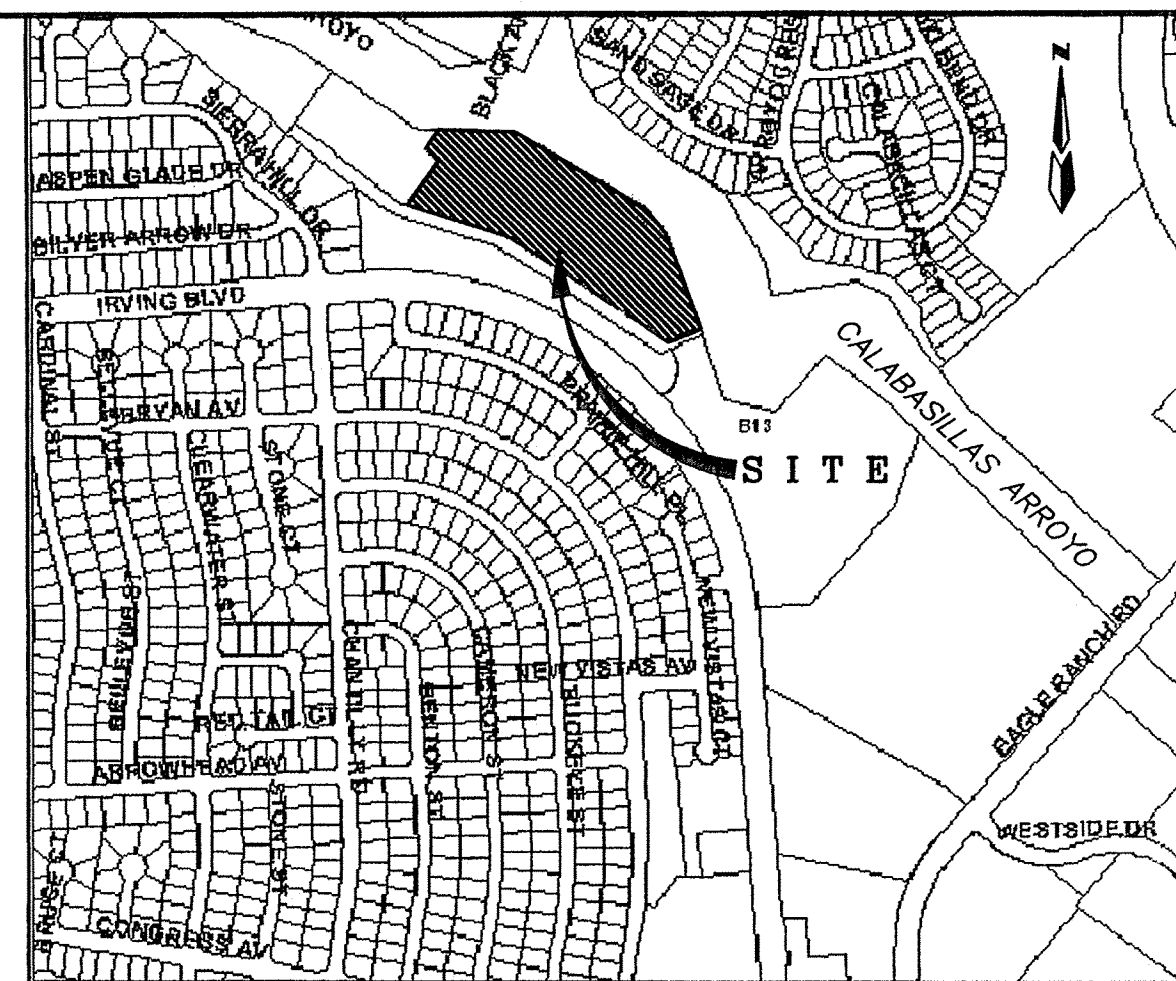


A01121\mc\A1121ad2B.dwg\01-14-02\DER



SWALE DETAIL
N.T.S.

SEVEN BAR RANCH
ARROYO DE LAS CALABACILLAS
(06-08-81, C18-96)



VICINITY MAP ZONE MAP: B-13-Z

ACS BENCHMARK

BENCHMARK FOR THIS SITE IS A STANDARD ACS BRASS TABLET STAMPED "2-B13", SET IN TOP OF A CONCRETE POST 0.2' BELOW THE GROUND. ELEVATION = 5068.204

LEGAL DESCRIPTION

IRVING LAND PARTNERS, TRACTS C-1-A & C-1-B, SITUATE WITHIN SECTION 7, TOWNSHIP 11 NORTH, RANGE 3 EAST, N.M.P.M., CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

LEGEND

- 5100 EXISTING CONTOUR (MAJOR)
- 5101 EXISTING CONTOUR (MINOR)
- TC= EXISTING TOP CURB ELEVATION
- FL= EXISTING FLOWLINE ELEVATION
- x 00.0 EXISTING SPOT ELEVATION
- EXISTING CONCRETE CURB
- EXISTING CONCRETE/SIDEWALK
- EXISTING TREE
- EXISTING LIGHT POLE
- PROPOSED CHAINLINK FENCE
- PROPOSED SPOT ELEVATION
- PROPOSED SWALE
- PROPOSED SLOPE SYMBOL
- PROPOSED ASPHALT PAVEMENT
- PROPOSED HEADER CURB

SEE SHEET 3

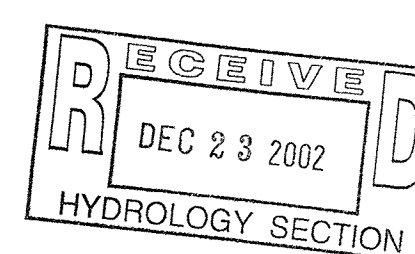
I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, hereby certify that this project has been graded and will drain in substantial compliance with the information edited onto the original design document has been obtained by Aldrich Land Surveying, of the firm Aldrich Land Surveying, I further certify that I have personally visited the project site on 12/17/02, and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

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Mark Goodwin, PE NMPE 8948



RASTRA BUILDING GRADING AND DRAINAGE PLAN

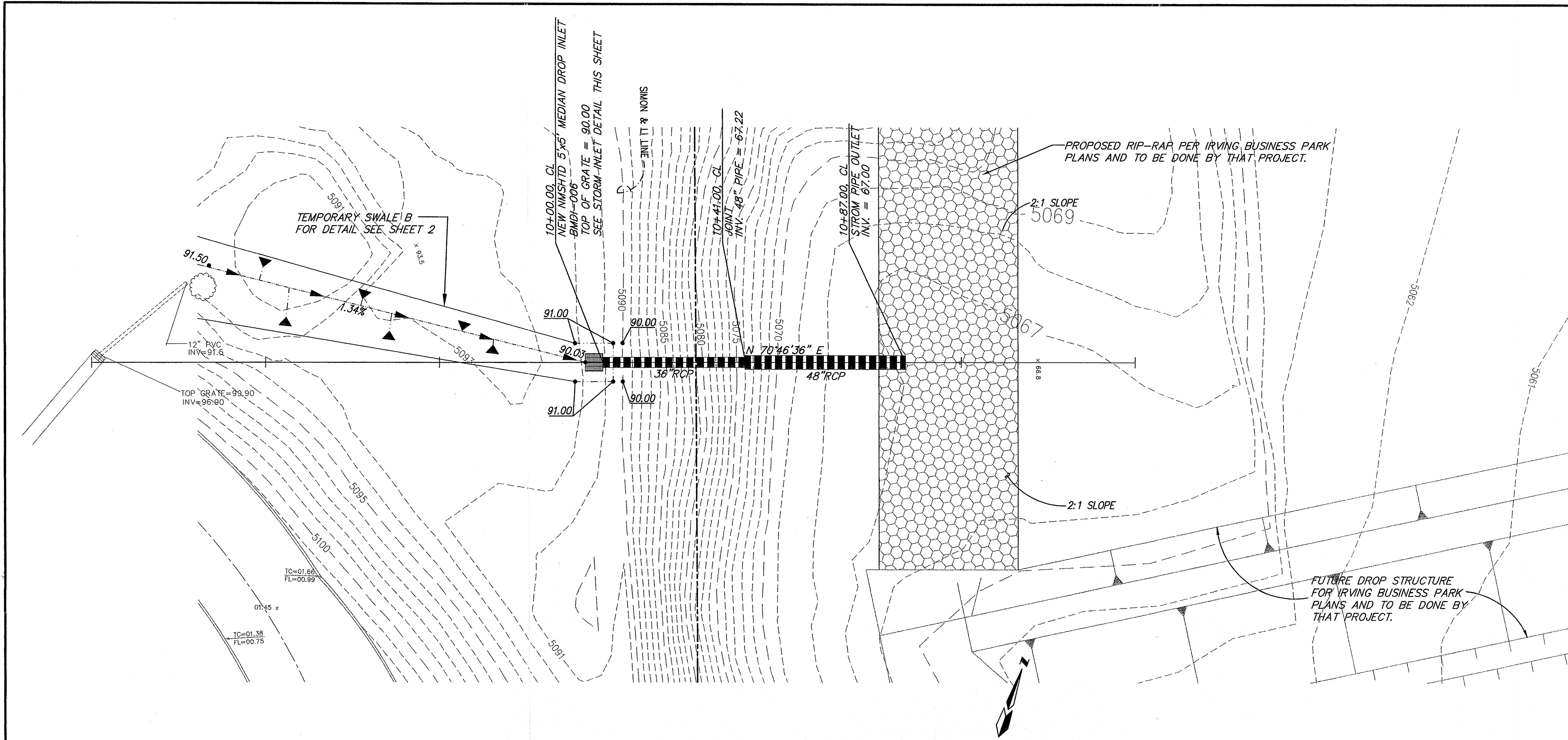
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: ALD Drawn: DER Checked: DMG
Scale: 1" = 20' Date: 01-14-02 Job: A01121 Sheet 1 of 3

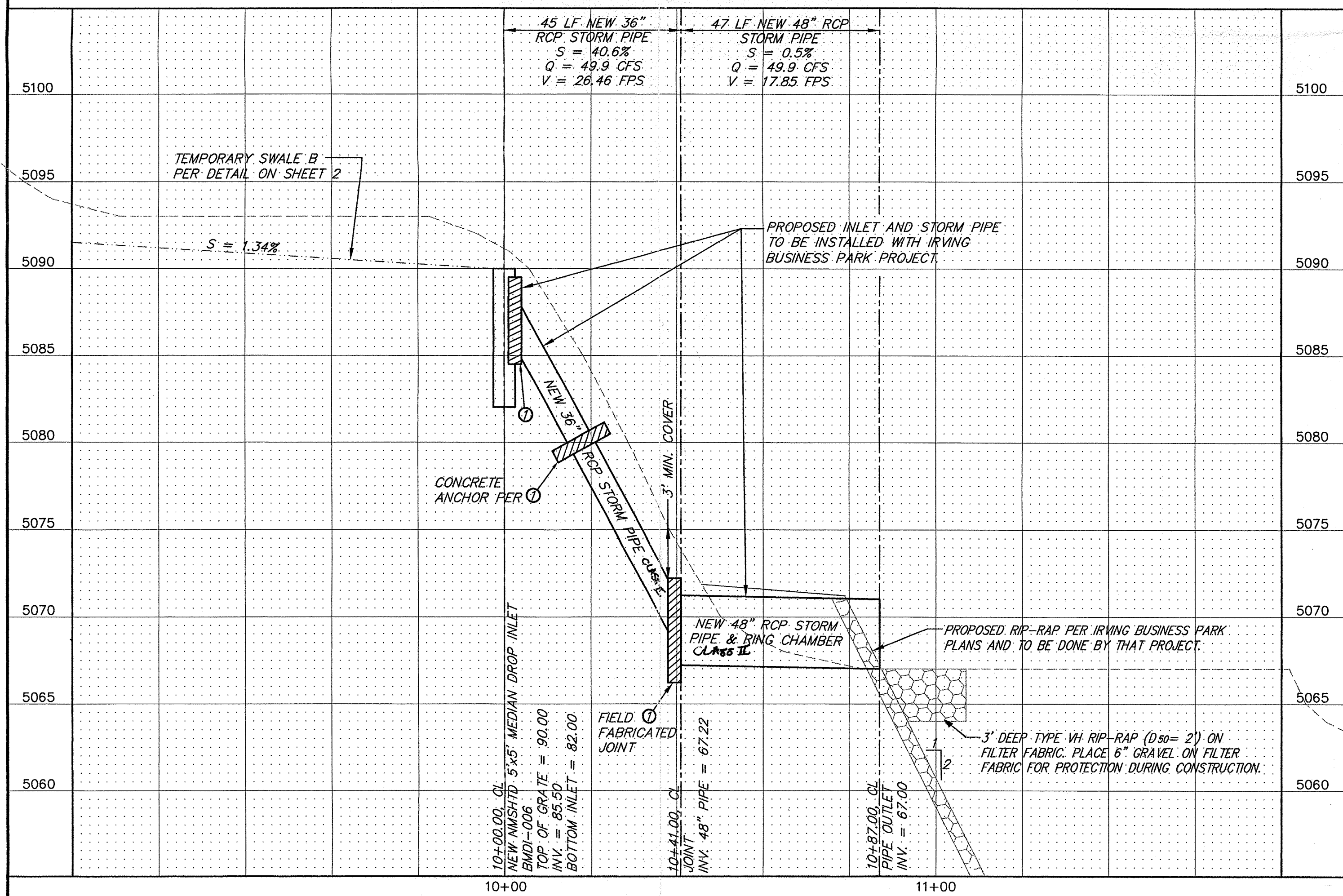
A01jobs\A1121mc\A1121gd1.dwg\01-14-02\der

F: A01J005-A1121mc-HELLER.DWG 2/4/02
For SLOES

CHANGE W/ SLO

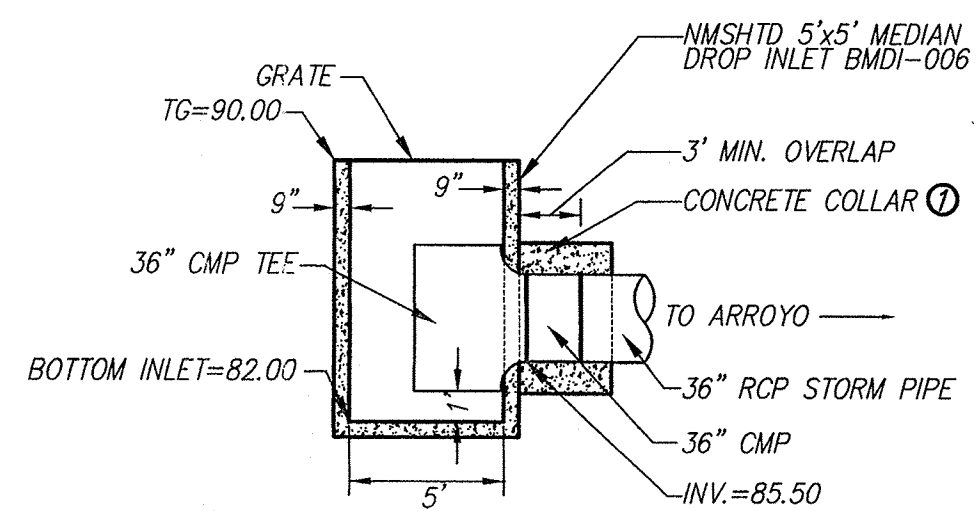


OUTLET STORM PIPE TO CALABILLAS
STA. 10+00.00 TO STA. 10+87.00
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

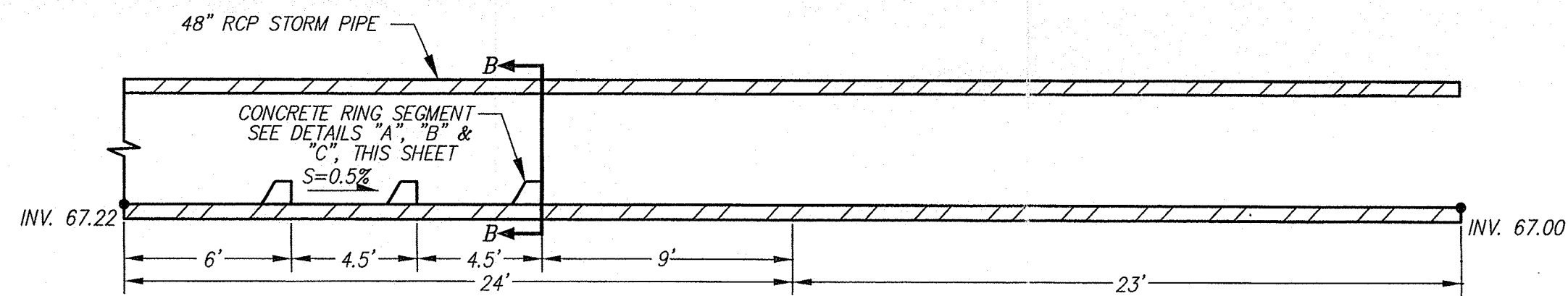


NOTES

- MIN. 3' WIDE AND MIN. 1' THICK CONCRETE COLLAR AT 4000 PSI THAT HAS WATER TIGHT SEAL. PROVIDE 4- #4 REBAR.



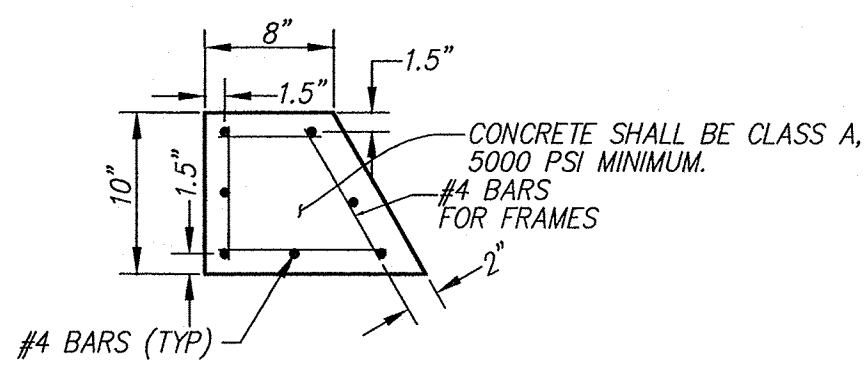
STORM INLET DETAIL
N.T.S.



DRAINAGE CERTIFICATION

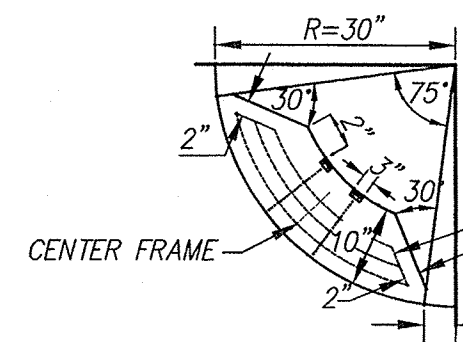
RING CHAMBER DETAIL

N.T.S.



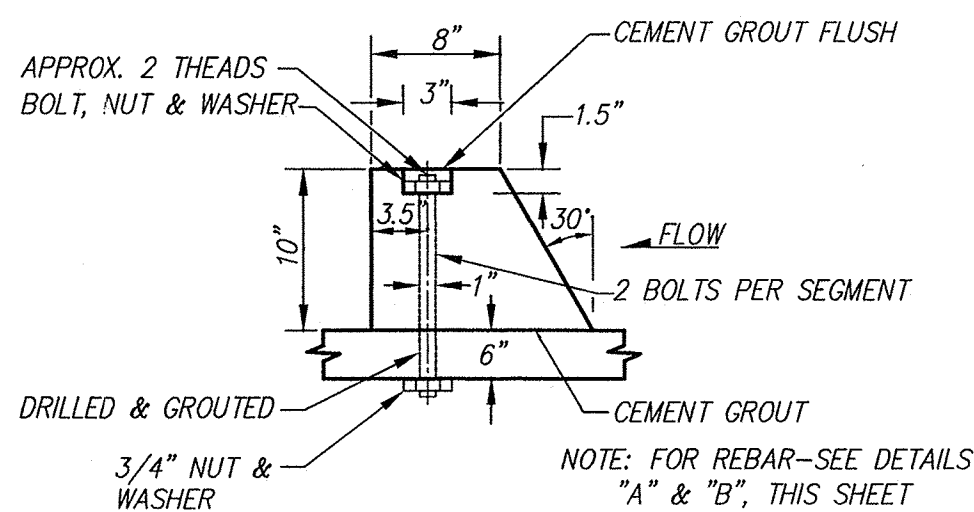
DETAIL "A"

N.T.S.



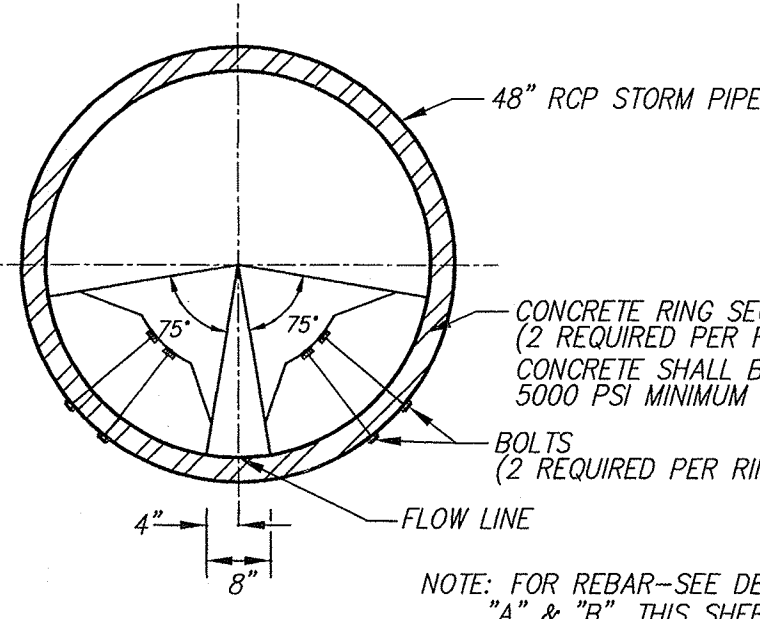
RING SEGMENT DETAIL "B"

N.T.S.



RING SEGMENT DETAIL "C"

N.T.S.



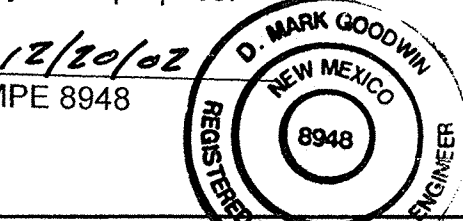
SECTION B-B

N.T.S.

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Mark Goodwin, PE
12/20/02
NMPE 8948



MAN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RECEIVED
DEC 23 2002
HYDROLOGY SECTION

RASTRA BUILDING
OUTFALL PLAN AND PROFILE

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

CITY PROJECT NO. ZONE MAP NO. SHEET OF

B-13-Z 3 3