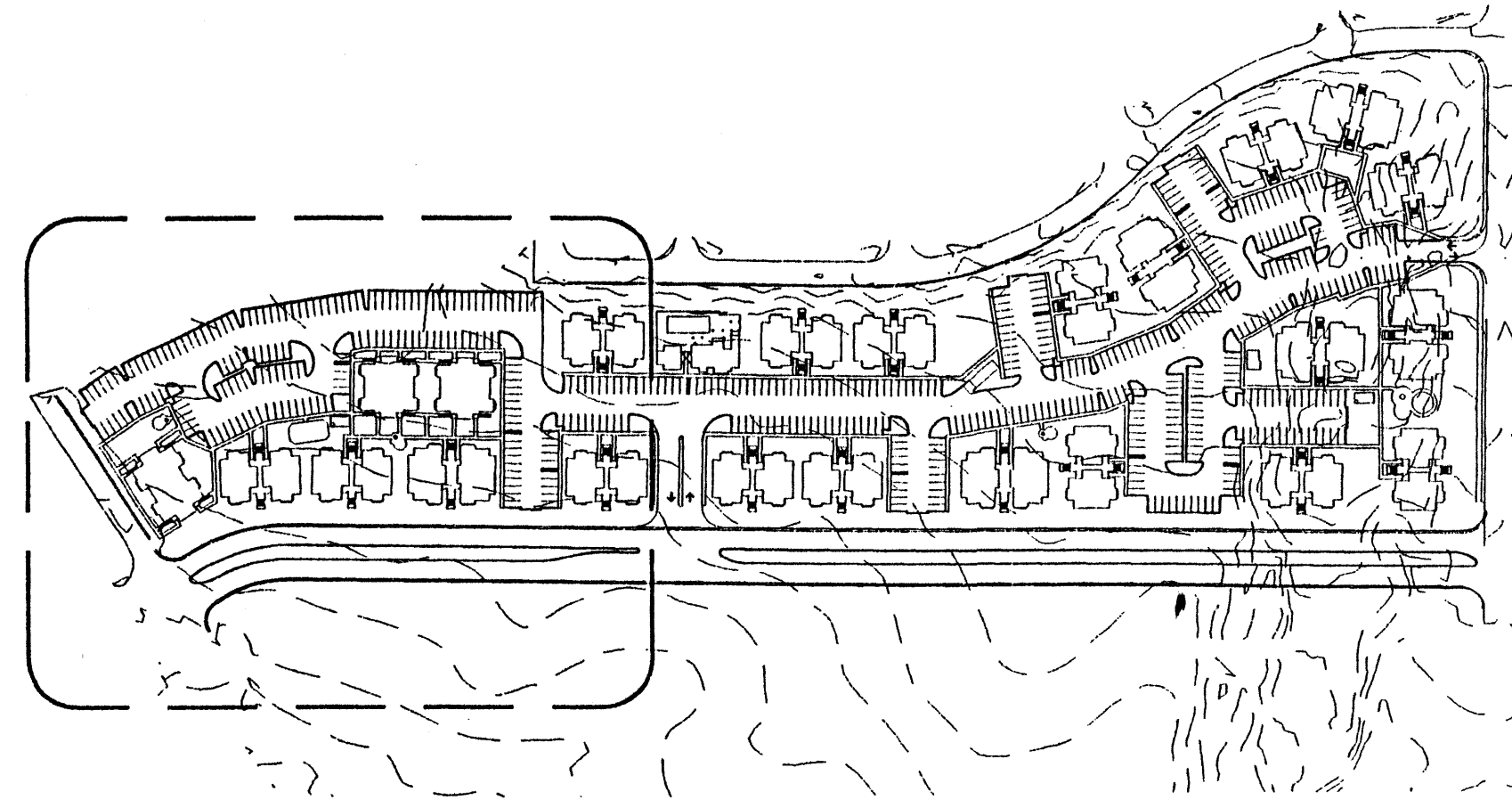


NOTE: TOP OF CURB ELEVATION
IS .5' ABOVE FOC

LEGAL DESCRIPTION

Tracts 1-B-1 as shown on the Plat of TRACTS 1-A-1 and 1-B-1 of EL RANCHO ATRISCO, PHASE III, Albuquerque, Bernalillo County, New Mexico as the same are shown and designated on said plat thereof, filed in the Office of the County Clerk, Bernalillo County, New Mexico on August 11, 1998 in Volume 98C, Folio 238.



DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

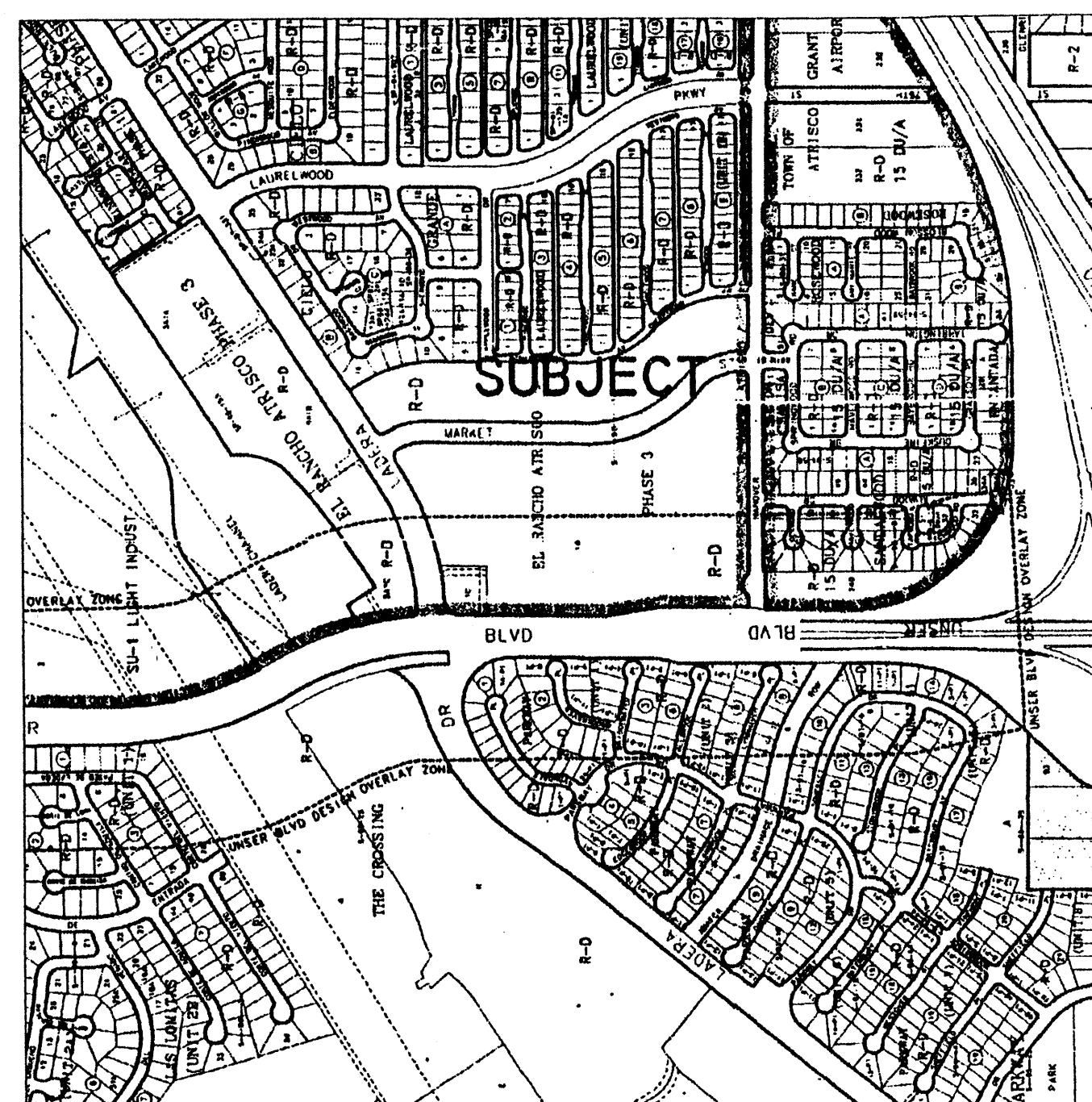
NOTICE TO CONTRACTOR

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1995.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO COMMERCIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

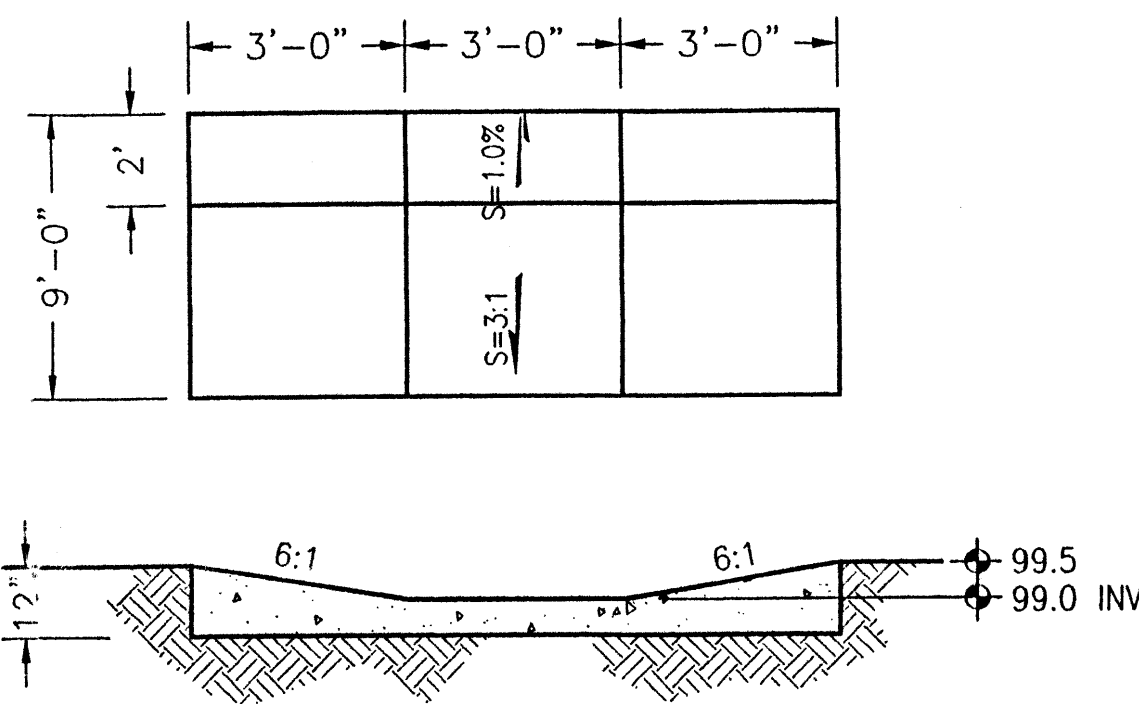
APPROVALS	NAME	DATE	TITLE:
HYDROLOGY			SIDEWALK CULVERTS
INSPECTOR			
A.C.E./FIELD			PERMIT NO. MAP NO. H-10

NOTE:

- THE ROOF DRAIN IS NOT PROVIDED BECAUSE THE ROOF IS PITCHED THUS THE FLOW AROUND THE BUILDING WILL BE SHEET FLOW.
- NO PHASING IS REQUIRED.
- SEE DRAINAGE REPORT FOR WESTWOOD SUBDIVISION, DATED DECEMBER 1997, FOR SUPPLEMENTAL HYDROLOGIC AND HYDRAULIC INFORMATION.



VICINITY MAP - ZAP'S H-9, J-9, H10, J10

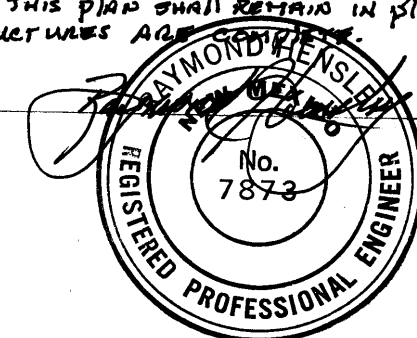


1 OVERFLOW WIER
C2A NO SCALE

ENGINEER'S CERTIFICATION

CONSTRUCTION WITHIN THIS AREA, INDICATED BY THE DASHED LINE, IS IN SUBSTANTIAL COMPLIANCE WITH THE DRAINAGE PLAN & REPORT DATED 12-2-98.

OVERFALL, SWALES & PONDS ARE TEMPORARY. EROSION CONTROL MEASURES ON THIS PLAN SHALL REMAIN IN PLACE UNTIL PERMANENT STRUCTURES ARE IN PLACE.



NOTE: STRUCTURE

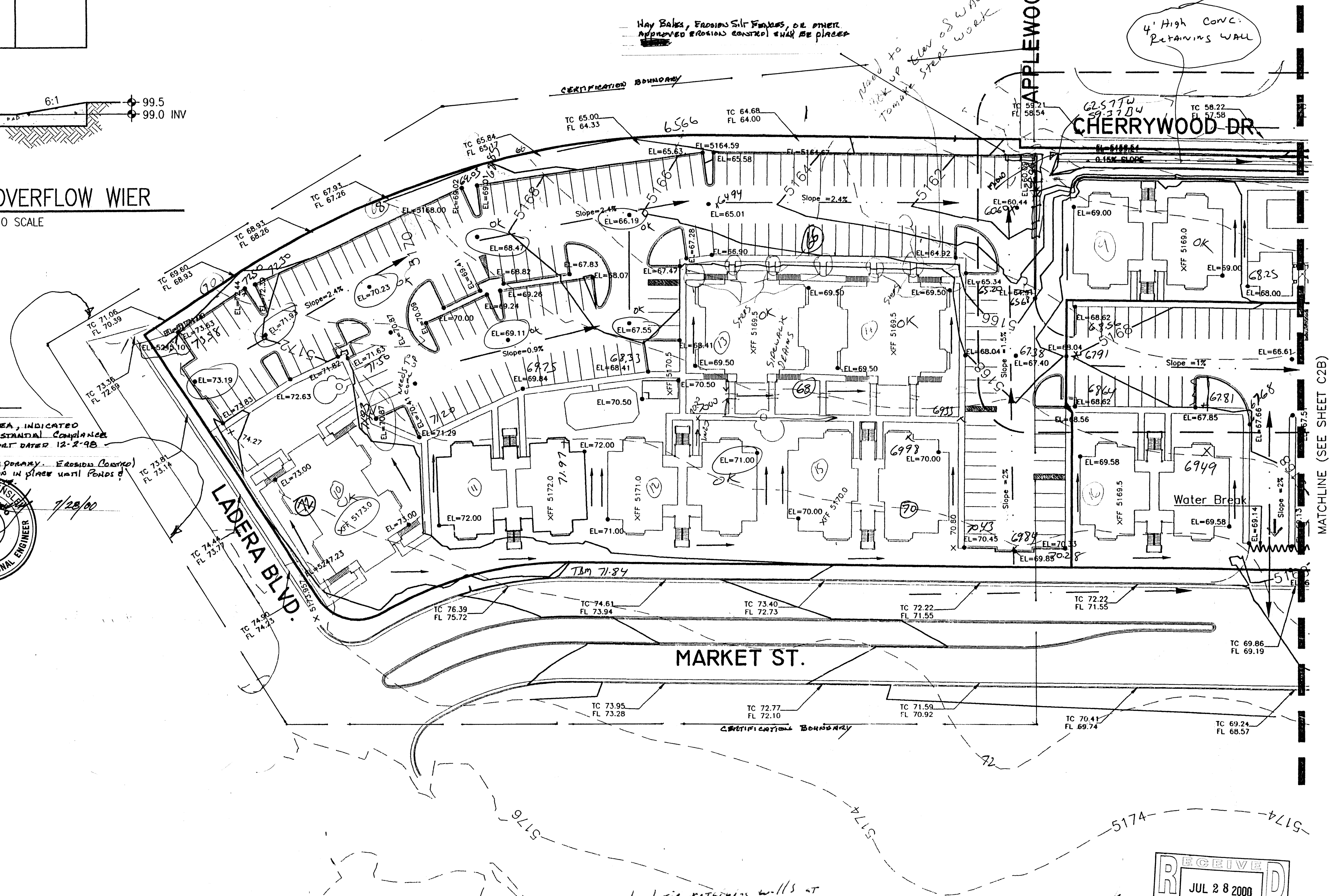
THE DISTANCE BETWEEN THE FINISHED FLOOR PAD ELEVATION AND THE 100-YR. FLOOD ELEVATION OF THE DETENTION POND IS GREATER THAN 15 FEET AND IN ADDITION THE STRUCTURE OF THE FINISHED FLOOR IS POST TENSIONED MONOLITHIC WHICH WILL PREVENT ANY CRACKING UNDER SETTLEMENT. REFER TO THE SOIL REPORT ATTACHED WITH THE DRAINAGE REPORT FOR WESTWOOD SUBDIVISION, DATED DECEMBER 1998.

May Bales, Erosion Silt Fences, or other approved erosion control will be placed

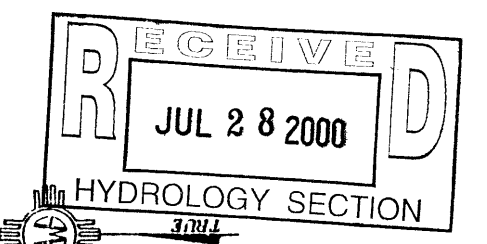
Need to pick up slow work to finish stress work

NOTE: SWALE & RETAINING WALL MODIFICATIONS ARE NOT CERTIFIED, & WILL REQUIRE DRAINAGE PLAN AMENDMENT.

4' High CONC. RETAINING WALL



Delete railroad tie retaining walls at station and station walls and replace with erosion control blanket and temporary for active grade per bond of Exhibit 1



0 40' 80' 160'
SCALE: 1" = 40'-0"

I. DESIGN CRITERIA

PROPERTY AREA = A = 12.39 ACRES

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE

DISCHARGE RATE: $Q = Q_{peak} \times AREA$... "PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"

VOLUMETRIC DISCHARGE: $VOLUME = E_{weighted} \times AREA$

ORIGIANL SOIL TYPE: 'A', SILT, SAND & DECOMPOSED GRANITE

DESIGN STORM: 100-year / 6-hour WHERE [] = 10 YEAR VALUES

II. CALCULATIONS

(TABLE 4) LAND TREATMENT "A", ZONE 1

(TABLE 8) $E_a = .44(12.39) = 5.45$ [.99]
BASIN-C1 = $.44(4.32) = 1.90$ [.35]
BASIN-C2 = $.44(8.07) = 3.55$ [.65]

(TABLE 9) $Q_p = 1.29(12.39) = 15.98$ [2.97] cfs
BASIN-C1 = $1.29(4.32) = 5.57$ [1.04] cfs
BASIN-C2 = $1.29(8.07) = 10.42$ [1.94] cfs

(INCREASED Q_p)

(POND VOLUME V_{pnd})

(TABLE 4) LAND TREATMENT "A", "B", "C" & "D", ZONE 1

$E_b = .44(12.3) + .67(1.21) + .99(4.0) + 1.97(2.59) = 1.47$ [.85]
 $Q_p = 1.29(12.3) + 2.03(1.21) + 2.87(4.0) + 4.37(2.59) = 15.05$ [9.02] cfs
 $Q_{outfall} = 6.28$ cfs

$Q_{inc} = 9.48$ [7.98] cfs
OUTFALL = 5334 cf

$V_{pnd} = A(E_b - E_a) - OUTFALL - OVERFLOW = 1628$ cf

BOTTOM = 56.5
WATER SURFACE = 58.0
TOP OF BERM = 58.5

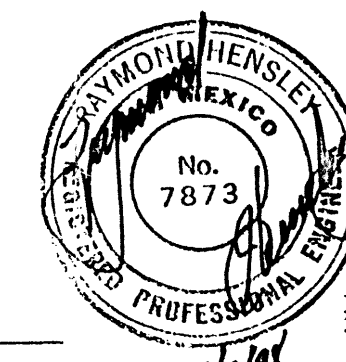
(TABLE 4) LAND TREATMENT "A", "B", "C" & "D", ZONE 1

$E_b = .44(2.29) + .67(2.454) + .99(7.46) + 1.97(4.461) = 1.43$ [.81]
 $Q_p = 1.29(2.29) + 2.03(2.454) + 2.87(7.46) + 4.37(4.461) = 26.31$ [15.92] cfs
 $Q_{outfall} = 23.86$ cfs
 $Q_{inc} = 16.498$ [13.987] cfs

OUTFALL = 28627cf OVERFLOW = 9190 cf

$V_{pnd} = A(E_b - E_a) - OUTFALL + [BASIN:A OVERFLOW] = 9563$ cf

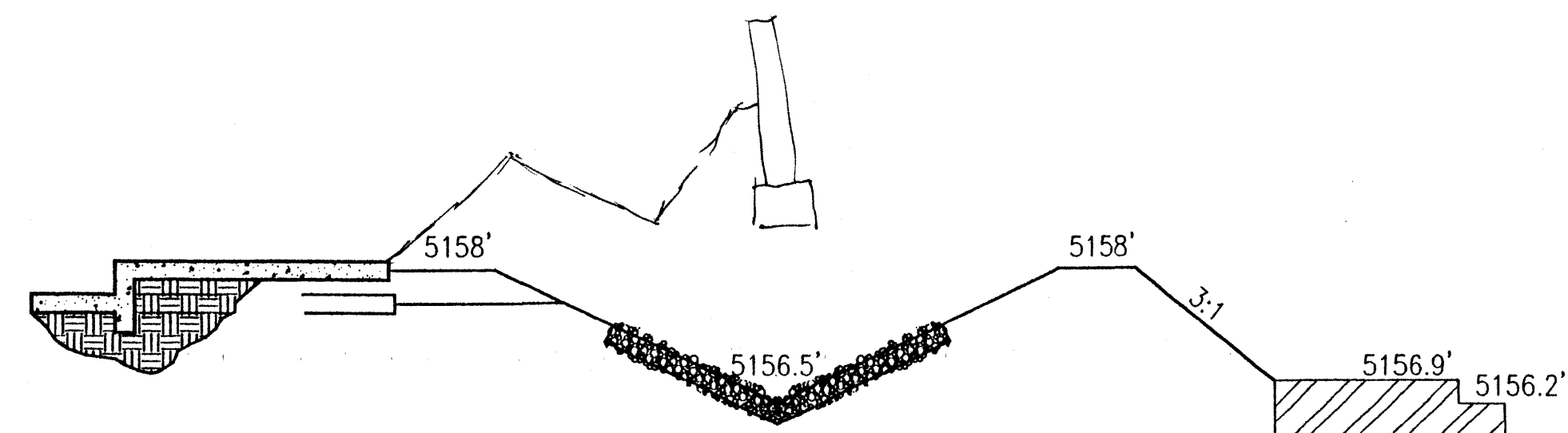
BOTTOM = 47.5
WATER SURFACE = 49.0
TOP OF BERM = 49.5



4001 JUAN TABO NE - A, ALB. NM 87111
(505) 298-3477

CAMI
CONSTRUCTION ANALYSIS
& MANAGEMENT, INC.

DRAWN BY: REH
DESIGN BY: REH
CHK'D BY: REH
DATE: 12/1/98
C2A



CHANNEL CROSS-SECTION

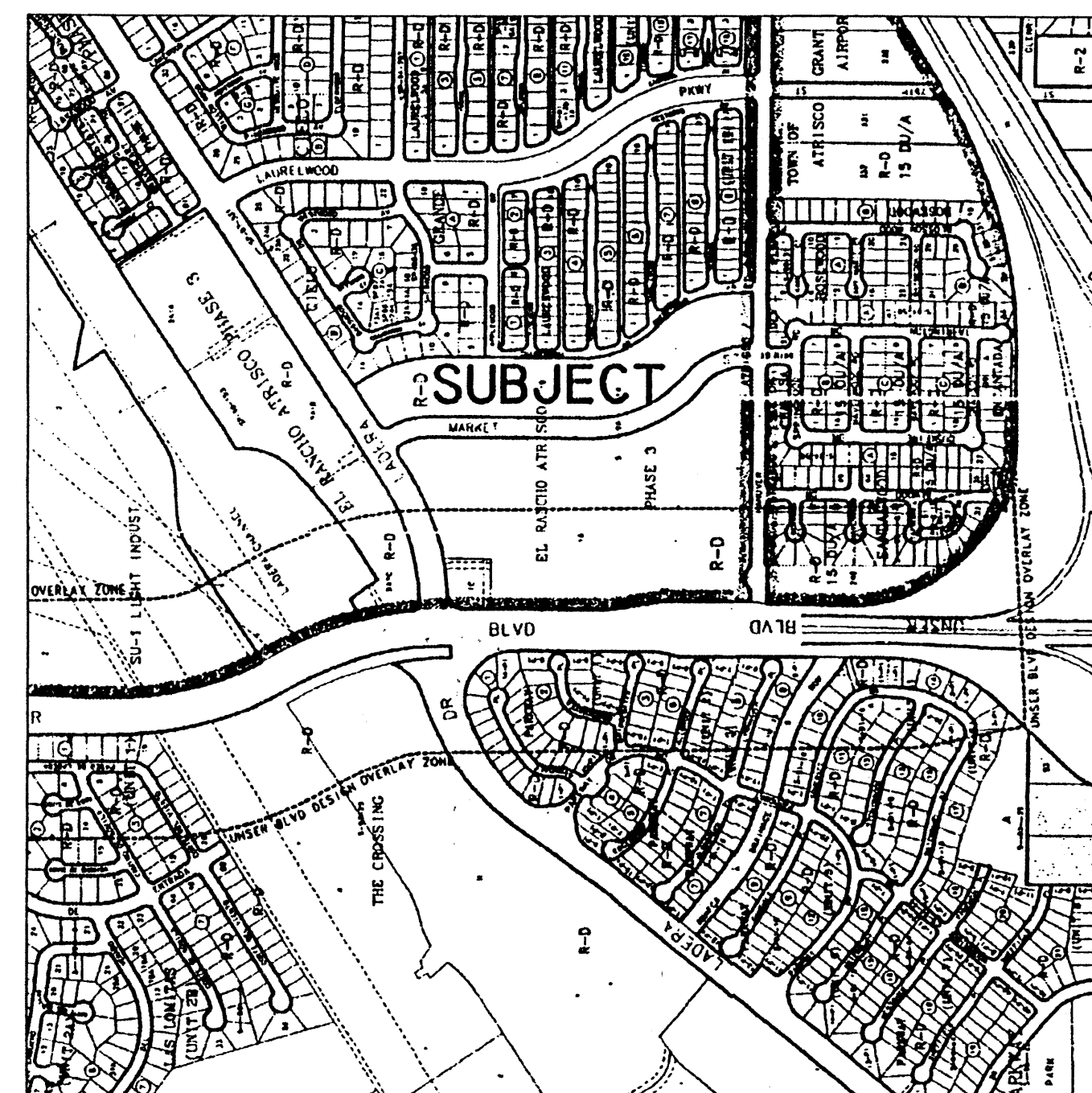
N.T.S.

1
C2B

CONSTRUCTION OF CHERRYWOOD DRIVE
HAS BEEN DEFERRED.

DETENTION POND

CAPACITY = 10905 CF
W/S HWY. ELEV. = 5158.5 FT. 5149.5
5148.0 FT. SEE POND SECTION
& PROFILE 3-C11
& 8-C11

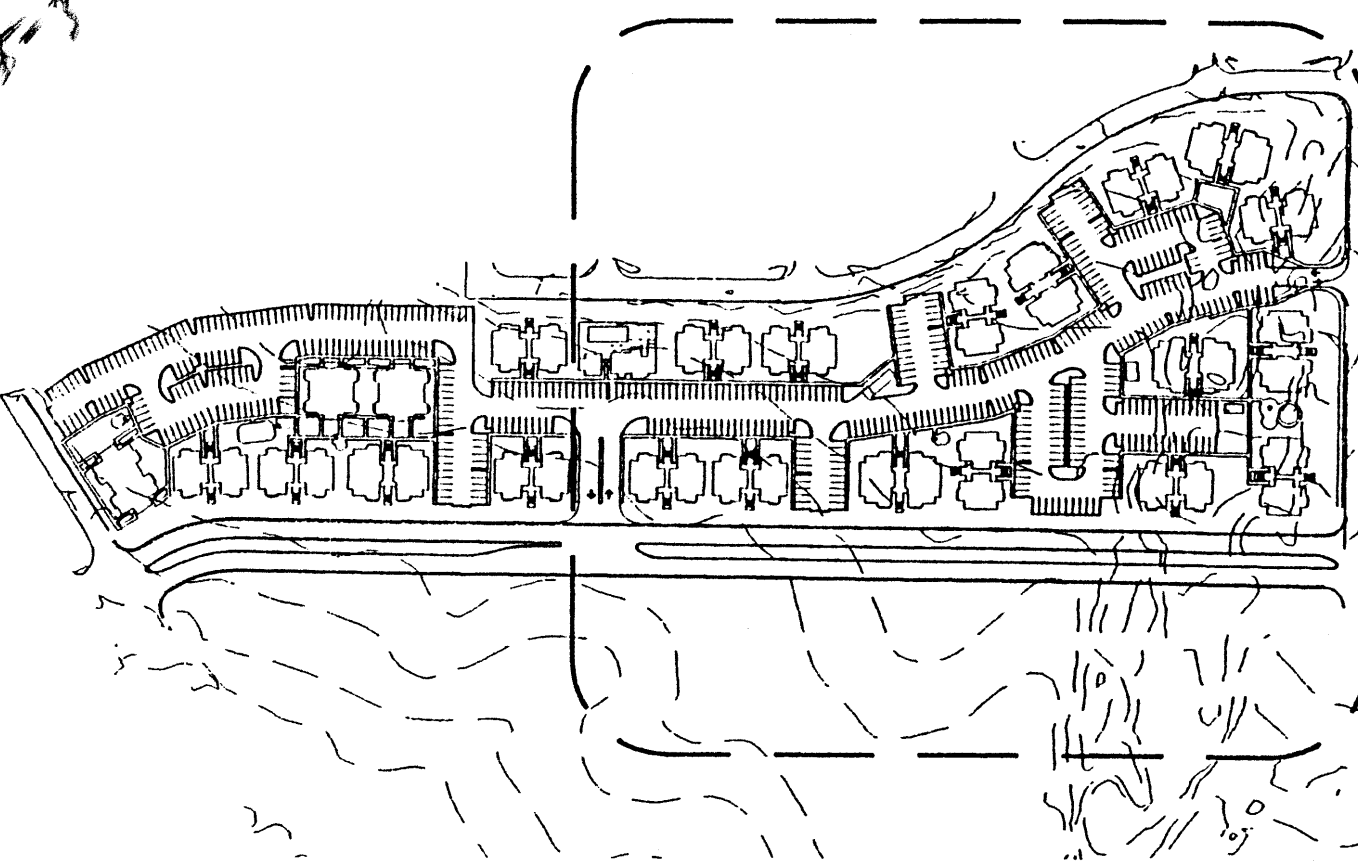


VICINTY MAP - ZAP'S H-9, J-9, H10, J10

NOTE: TOP OF CURB ELEVATION
IS .5' ABOVE FOC

LEGAL DESCRIPTION

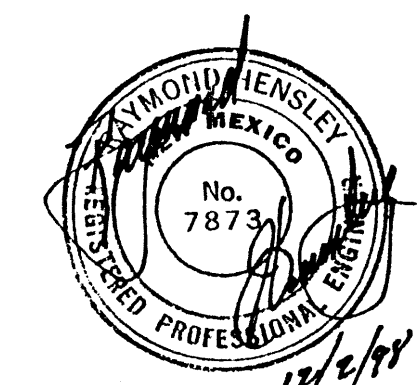
Tracts 1-B-1 as shown on the Plat of TRACTS 1-A-1 and 1-B-1 of
EL RANCHO ATRISCO, PHASE III, Albuquerque, Bernalillo County, New Mexico
as the same are shown and designated on said plat thereof, filed in the
Office of the County Clerk, Bernalillo County, New Mexico on August 11,
1998 in Volume 98C, Folio 238.



RECEIVED
JUL 28 2000
HYDROLOGY SECTION

SCALE: 1" = 40'-0"

REV.	DATE	DESCRIPTION
PROJECT TITLE		
WESTWOOD APARTMENTS		
MARKET STREET ALBUQUERQUE, NEW MEXICO		
SHEET TITLE		
GRADING AND DRAINAGE PLAN		
DRAWN BY REH		DATE: 12/1/98
DESIGN BY REH		C2B
CHK'D BY REH		



4001 JUAN TABO NE - A, ALB. NM
(505)298-3477 87111

MATCHLINE (SEE SHEET C2A)

MARKET ST.

HANNOVER RD.

CHERRYWOOD DR.

DETENTION POND

CAPACITY = 9222 CF
W/S HWY. ELEV. = 5158.5 FT. 5158.5
5157.0 FT. SEE POND SECTION
& PROFILE 2-C11
& 8-C11

4' High Conc.
Retaining Wall

SEE POND SECTION
& PROFILE 2-C11
& 8-C11

4
C8

9
C11

1
C2B

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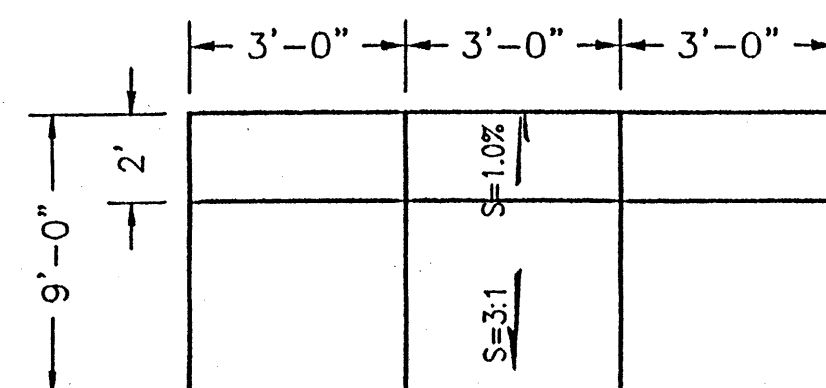
1
C2B

1
C2B

NOTE: TOP OF CURB ELEVATION
IS .5' ABOVE FOC

LEGAL DESCRIPTION

Tracts 1-B-1 as shown on the Plat of TRACTS 1-A-1 and 1-B-1 of EL RANCHO ATRISCO, PHASE III, Albuquerque, Bernalillo County, New Mexico as the same are shown and designated on said plat thereof, filed in the Office of the County Clerk, Bernalillo County, New Mexico on August 11, 1998 in Volume 98C, Folio 238.

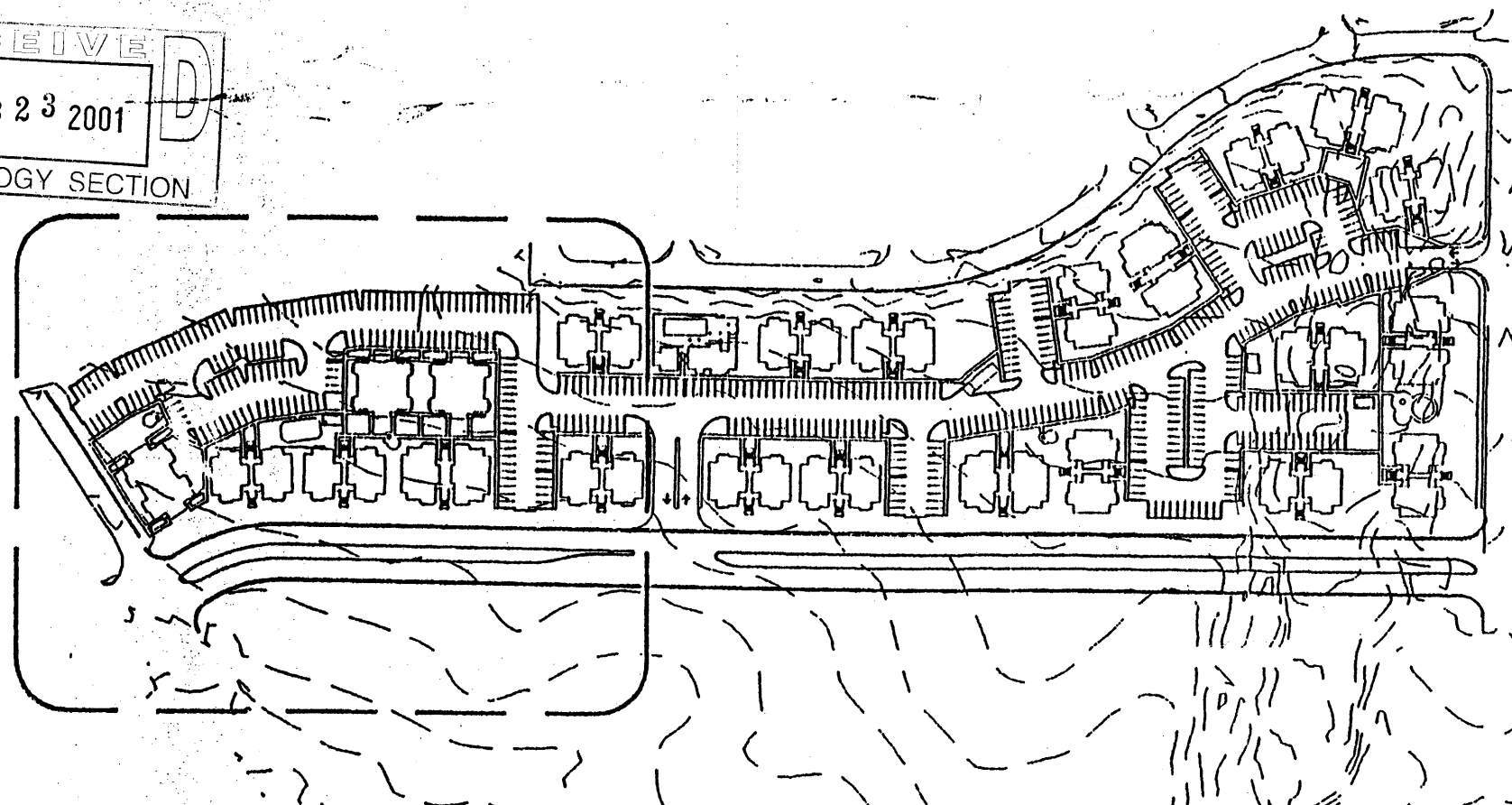


NOTE: STRUCTURE

THE DISTANCE BETWEEN THE FINISHED FLOOR PAD ELEVATION AND THE 100-YR. FLOOD ELEVATION OF THE DETENTION POND IS GREATER THAN 15 FEET AND IN ADDITION THE STRUCTURE OF THE FINISHED FLOOR IS POST TENSIONED MONOLITHIC WHICH WILL PREVENT ANY CRACKING UNDER SETTLEMENT. REFER TO THE SOIL REPORT ATTACHED WITH THE DRAINAGE REPORT FOR WESTWOOD SUBDIVISION, DATED DECEMBER 1998.

NOTE: SWALE & RETAINING WALL MODIFICATIONS ARE NOT CERTIFIED, & WILL REQUIRE DRAINAGE PLAN AMENDMENT.

RECEIVED
FEB 23 2001
HYDROLOGY SECTION



DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

NOTICE TO CONTRACTOR

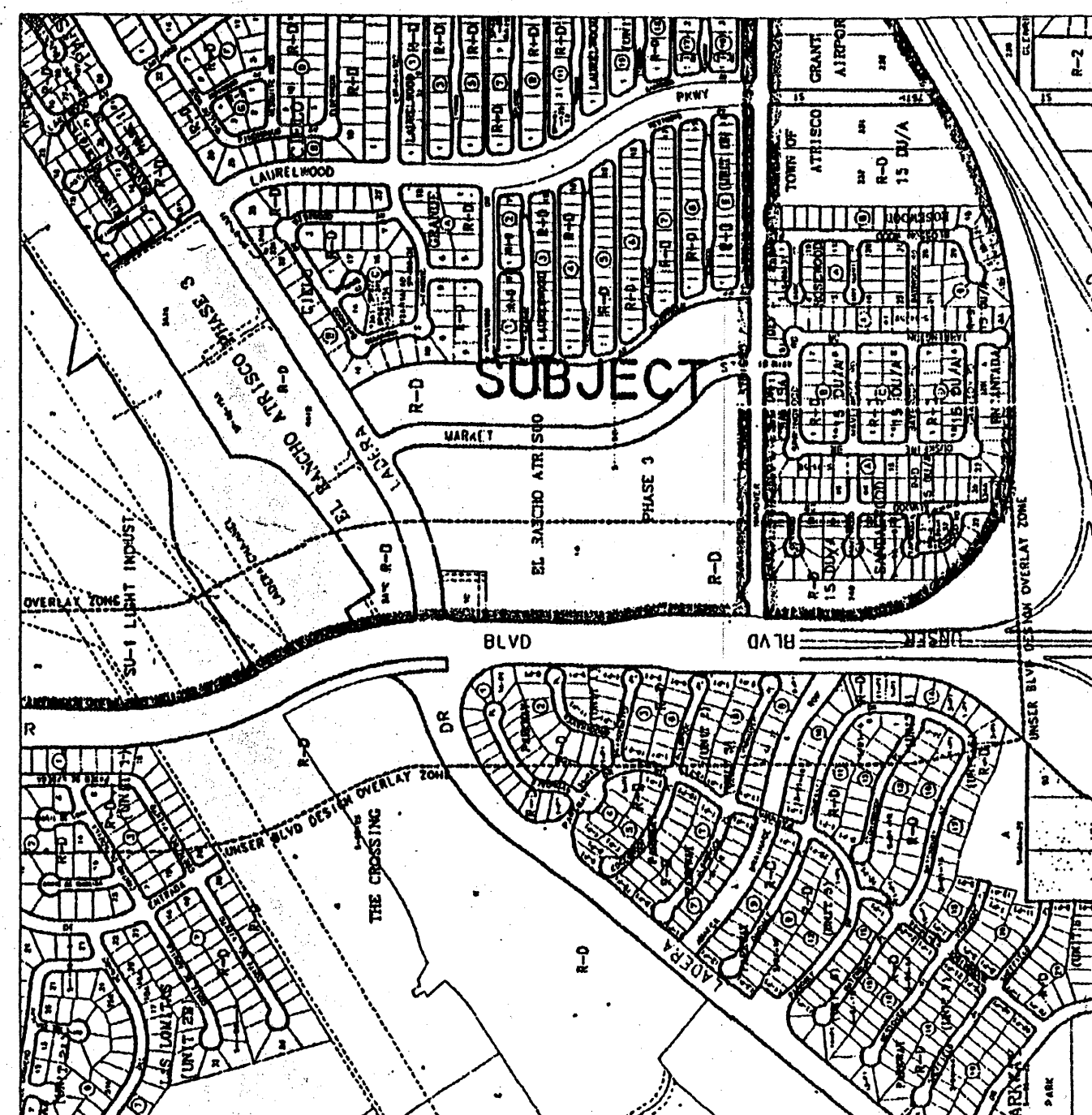
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO COMMERCIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE	TITLE
HYDROLOGY			SIDEWALK CULVERTS
INSPECTOR	SDM	3/1/01	
A.C.E./FIELD			

PERMIT NO. 2-11-2032436 MAP NO. H-10

NOTE:

- THE ROOF DRAIN IS NOT PROVIDED BECAUSE THE ROOF IS PITCHED THUS THE FLOW AROUND THE BUILDING WILL BE SHEET FLOW.
- NO PHASING IS REQUIRED.
- SEE DRAINAGE REPORT FOR WESTWOOD SUBDIVISION, DATED DECEMBER 1997, FOR SUPPLEMENTAL HYDROLOGIC AND HYDRAULIC INFORMATION.



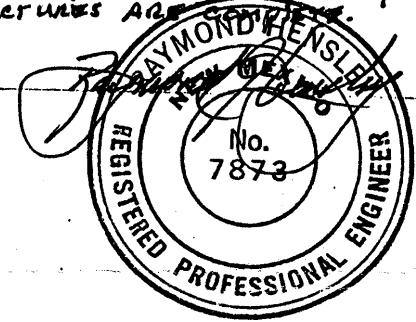
VICINTY MAP - ZAP'S H-9, J-9, H10, J10

1 OVERFLOW WIER C2A NO SCALE

ENGINEER'S CERTIFICATION

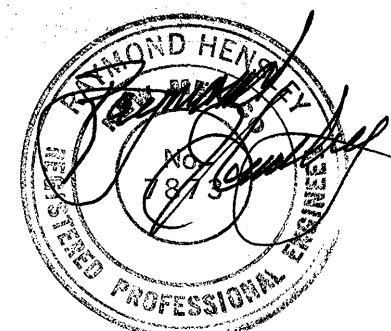
CONSTRUCTION WITHIN THIS AREA, INDICATED BY THE DASHED LINE, IS IN SUBSTANTIAL COMPLIANCE WITH THE DRAINAGE PLAN & REPORT DATED 12-2-98.

OUTFALL, SWALES & PONDS ARE THE PROPERTY OF EASIDCO (CONCRETE) INDICATED ON THIS PLAN SHALL REMAIN IN PLACE UNTIL PONDS & OUTFALL STRUCTURES ARE COMPLETED.



Engineers Certification

I have reviewed the Drainage Plans and inspected the project. I find that the drainage improvements and site construction is in substantial compliance with the plans originally submitted to the City of Albuquerque for construction permit with the noted modifications.



I. DESIGN CRITERIA

PROPERTY AREA = A = 12.39 ACRES

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY, OF THE DEVELOPMENT PROGRESS MANUAL (DPM), REVISED JANUARY 1993 FOR THE CITY OF ALBUQUERQUE

DISCHARGE RATE: $Q = Q_{peak} \times AREA$... "PEAK DISCHARGE RATES FOR SMALL WATERSHEDS".

VOLUMETRIC DISCHARGE: $VOLUME = E_{weighted} \times AREA$

ORIGIANL SOIL TYPE: 'A', SILT, SAND & DECOMPOSED GRANITE

DESIGN STORM: 100-year / 6-hour WHERE [] = 10 YEAR VALUES

II. CALCULATIONS

EXISTING

(TABLE 4) LAND TREATMENT "A", ZONE 1

(TABLE 8) $E_a = .44(12.39) = 5.45$ [.99]

BASIN-C1 = $.44(4.32) = 1.90$ [.35]

BASIN-C2 = $.44(8.07) = 3.55$ [.65]

(TABLE 9) $Q_p = 1.29(12.39) = 15.98$ [2.97] cfs

BASIN-C1 = $1.29(4.32) = 5.57$ [1.04] cfs

BASIN-C2 = $1.29(8.07) = 10.42$ [1.94] cfs

(INCREASED Q_p)

(POND VOLUME V_{pnd})

PROPOSED

(TABLE 4) LAND TREATMENT "A", "B", "C" & "D", ZONE 1

$E_b = .44(12.3) + .67(1.21) + .99(4.0) + 1.97(2.59) = 1.47$ [.85]

$Q_p = 1.29(12.3) + 2.03(1.21) + 2.87(4.0) + 4.37(2.59) = 15.05$ [9.02] cfs

Qoutfall = 6.28 cfs

Qinc = 9.48 [7.98] cfs

OUTFALL = 5334 cf

OVERFLOW = 9190 cf

$V_{pnd} = A(E_b - E_a) - OUTFALL - OVERFLOW = 1628$ cf

OUTFALL = 28627cf

OVERFLOW = 9190 cf

$V_{pnd} = A(E_b - E_a) - OUTFALL + [BASIN-A OVERFLOW] = 9563$ cf

BOTTOM = 56.5
WATER SURFACE = 58.0
TOP OF BERM = 58.5

BOTTOM = 47.5
WATER SURFACE = 49.0
TOP OF BERM = 49.5

Delete railroad tie retaining walls at 7' elevation and 2' from walls and replace with erosion control blanket and top vegetation. For native grass per 6-0 of Exhibit 1.

RECEIVED
FEB 23 2001
HYDROLOGY SECTION

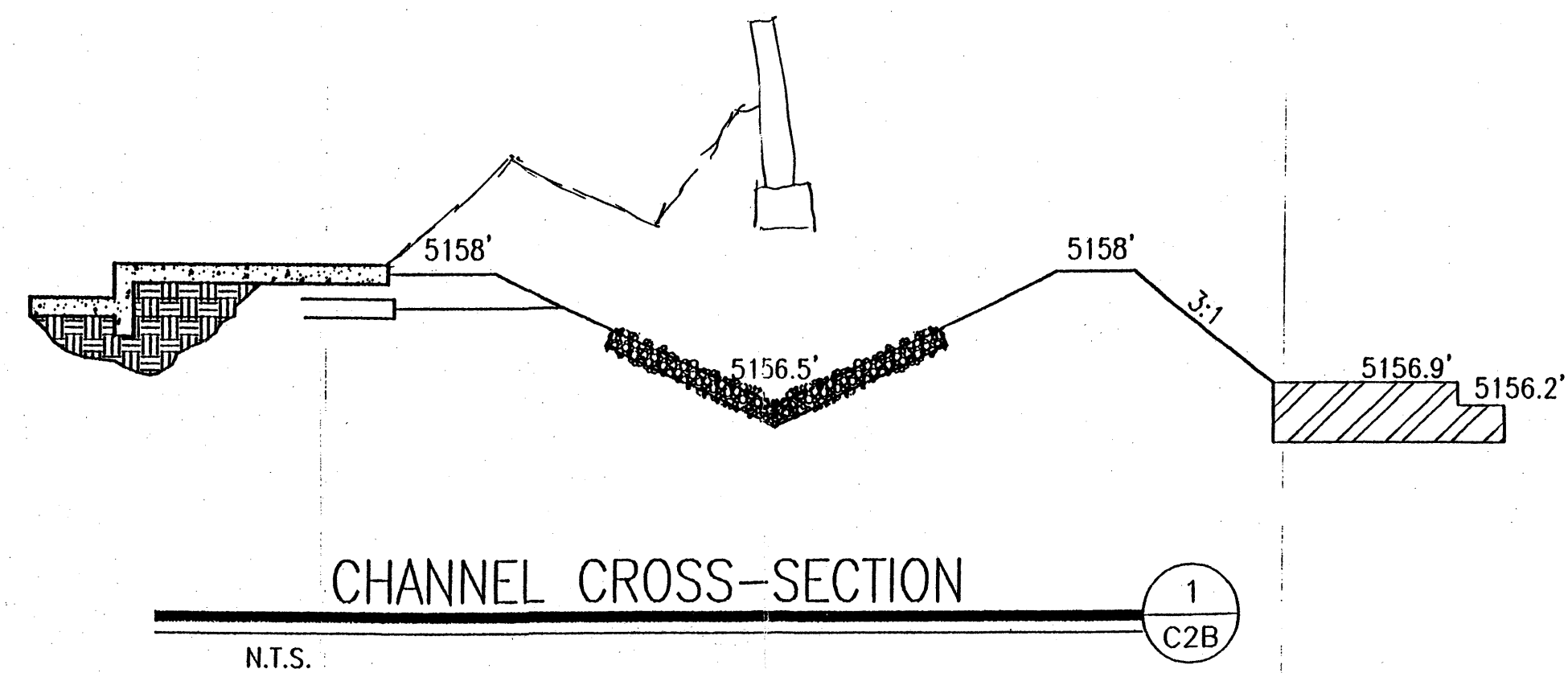
SCALE: 1" = 40'-0"

REV.	DATE	DESCRIPTION

PROJECT TITLE
WESTWOOD APARTMENTS
MARKET STREET ALBUQUERQUE, NEW MEXICO
SHEET TITLE
GRADING AND DRAINAGE PLAN

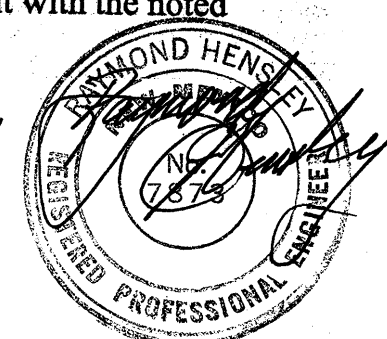
CAMI
CONSTRUCTION ANALYSIS
& MANAGEMENT, INC.

DRAWN BY
REH
DESIGN BY
REH
CHK'D BY
REH
DATE:
12/1/98
C2A



Engineers Certification

I have reviewed the Drainage Plans and inspected the project. I find that the drainage improvements and site construction is in substantial compliance with the plans originally submitted to the City of Albuquerque for construction permit with the noted modifications.



DETENTION POND
CAPACITY = 9222 CF
INV. ELEV. = 5149.5 FT.
WS ELEV. = 5149.0 FT.

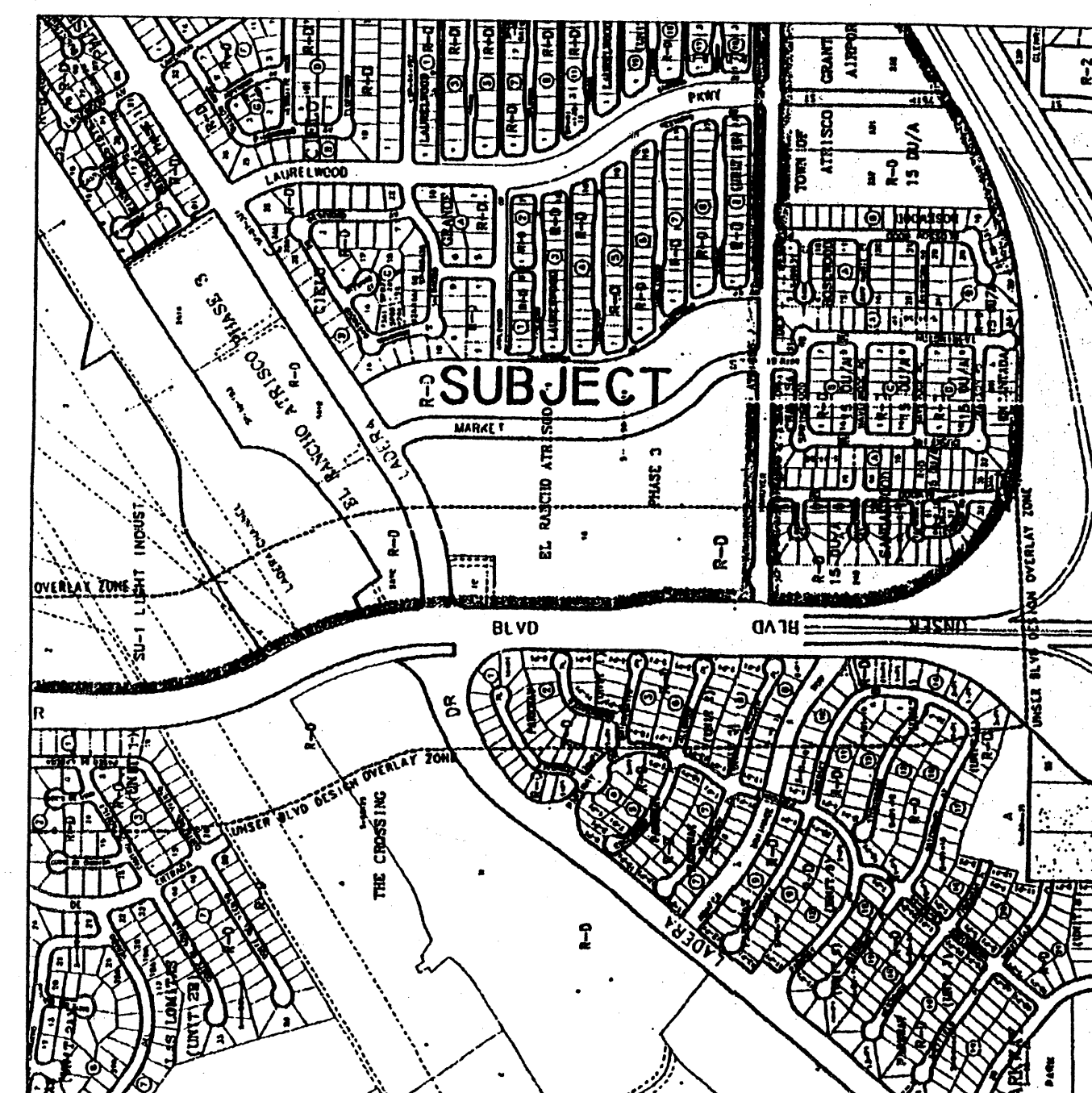
SEE POND SECTION & PROFILE 2-C11 & 8-C11

CHERRYWOOD DR.

CONSTRUCTION OF CHERRYWOOD DRIVE HAS BEEN DEFERRED.

DETENTION POND

CAPACITY = 10905 CF
INV. ELEV. = 5158.5 FT. 5147.0
WS ELEV. = 5158.0 FT. 5144.5
SEE POND SECTION & PROFILE 3-C11 & 8-C11

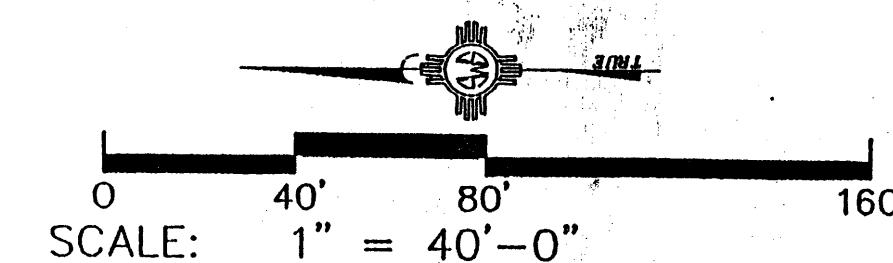
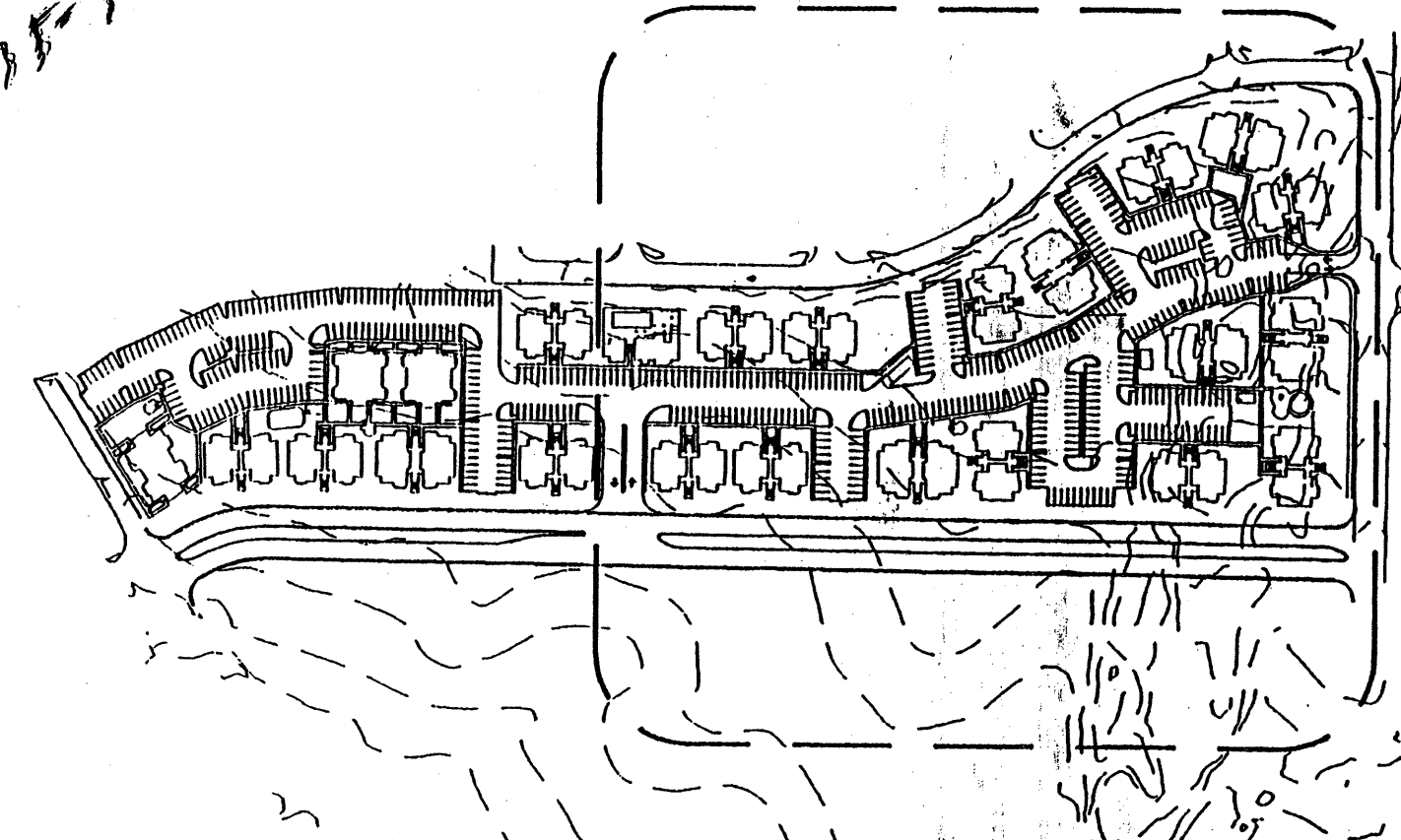


VICINITY MAP - ZAP'S H-9, J-9, H10, J10

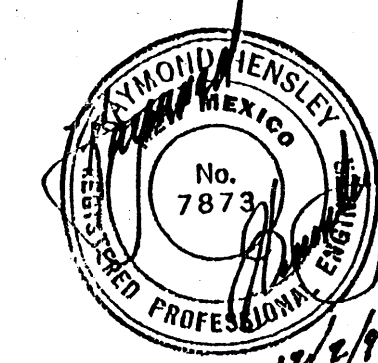
NOTE: TOP OF CURB ELEVATION IS .5' ABOVE FOC

LEGAL DESCRIPTION

Tracts 1-B-1 as shown on the Plat of TRACTS 1-A-1 and 1-B-1 of EL RANCHO ATRISCO, PHASE III, Albuquerque, Bernalillo County, New Mexico as the same are shown and designated on said plat thereof, filed in the Office of the County Clerk, Bernalillo County, New Mexico on August 11, 1998 in Volume 98C, Folio 238.



REV.	DATE	DESCRIPTION
PROJECT TITLE		
WESTWOOD APARTMENTS		
MARKET STREET		ALBUQUERQUE, NEW MEXICO
SHEET TITLE		
GRADING AND DRAINAGE PLAN		
DRAWN BY REH		DATE: 12/1/98
DESIGN BY REH		C2B
CHK'D BY REH		



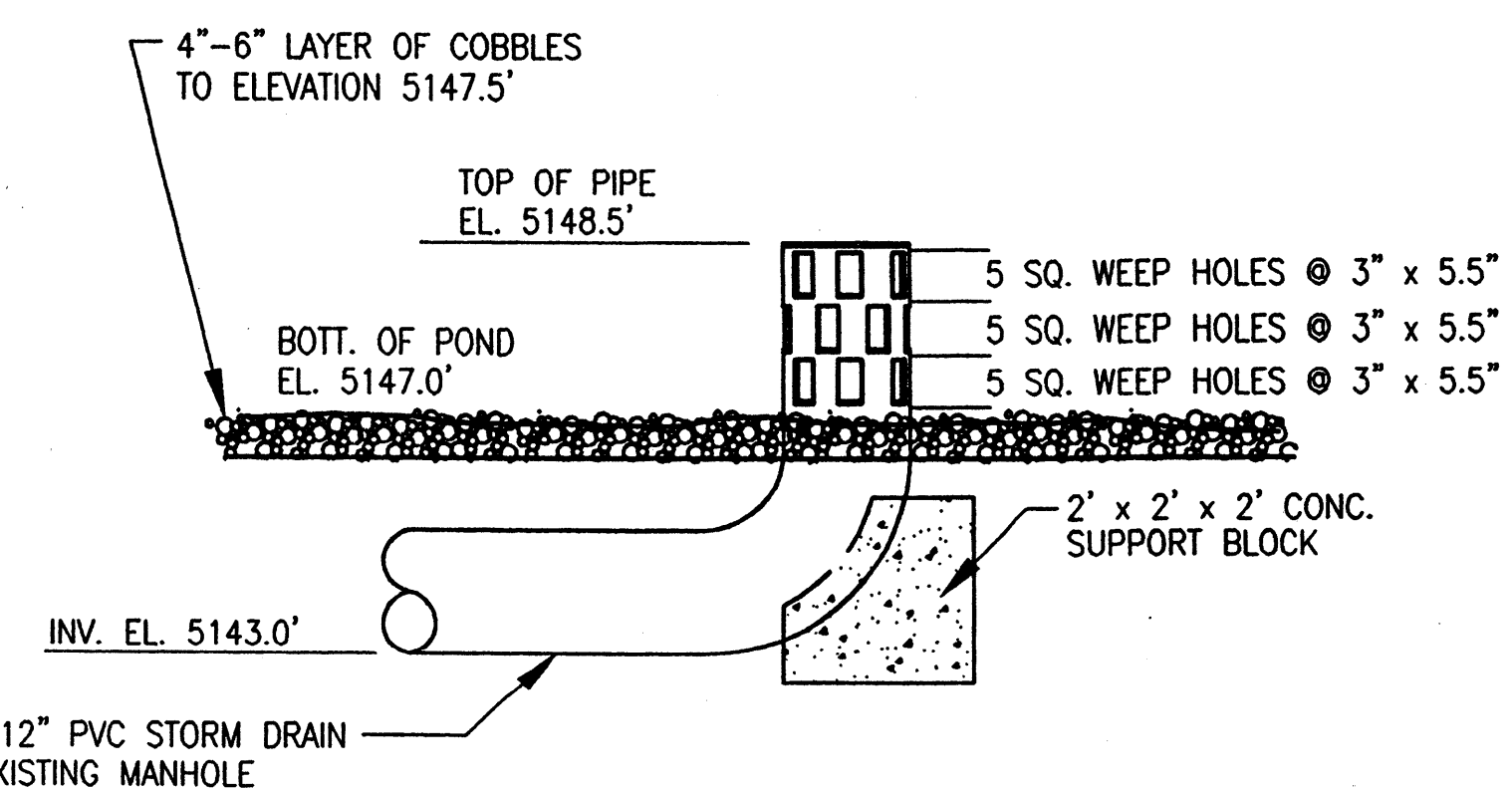
4001 JUAN TABO NE - A. ALB. NM 87111
(505) 258-3477

CAMI
CONSTRUCTION ANALYSIS
& MANAGEMENT, INC.

MATCHLINE (SEE SHEET C2A)

MARKET ST.

HANNOVER RD.



SCALE: 1" = 2' - 0"



SCALE: 1" = 4' - 0"



SCALE: 1" = 4' - 0"



SCALE: 1" = 4' - 0"



SCALE: 1"=10' and 1"=2'



SCALE: 1" = 4'-0"



SCALE: 1" = 4'-0"

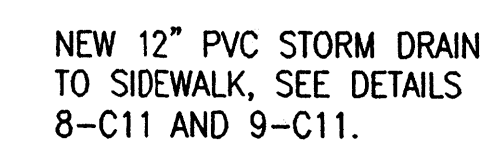


SCALE: 1" = 60' HOR
1" = 5' VER

I have reviewed the Drainage Plans and inspected the project. I find that the drainage improvements and site construction is in substantial compliance with the plans originally submitted to the City of Albuquerque for construction permit with the noted modifications.

3/2

SCALE : 1" = 2'-0"



SCALE : 1" = 2'-0"

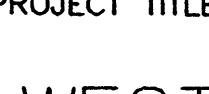


SCALE : 1" = 4'-0"

ALBUQUERQUE
BLDG & SAFETY
NOV - 2 1998
U.B.C.
PLAN CHECK
SECTION



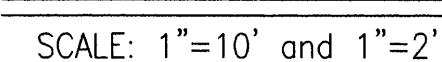
4001 JUAN TABO NE - A, ALB. NM
505)298-3477 87111

REV.	DATE	DESCRIPTION
PROJECT TITLE		
WESTWOOD APARTMENTS		
MARKET STREET		ALBUQUERQUE, NEW MEXICO
SHEET TITLE		
WALL, STANDPIPE, AND POND DETAIL		
 STRUCTION ANALYSIS & MANAGEMENT, INC.		DRAWN BY <u>BHH</u> DESIGN BY <u>LCL</u> CHK'D BY <u>REH</u>
		DATE: 06/28/98

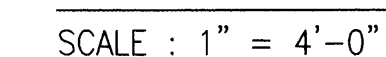
DRAWN BY
BHH
DESIGN BY
LCL
CHK'D BY
REH

DATE: 06/28/98

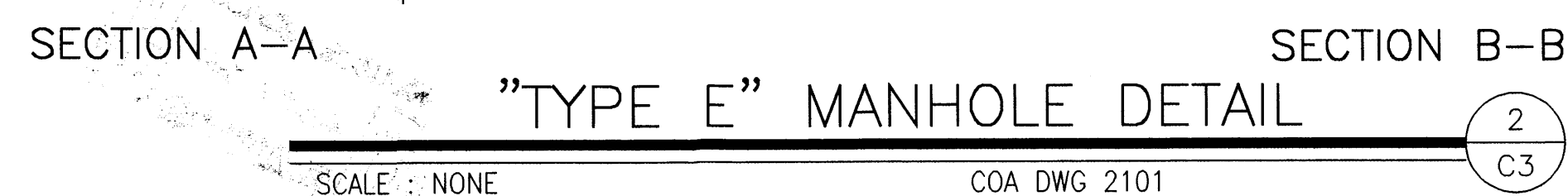
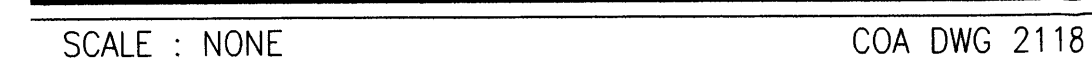
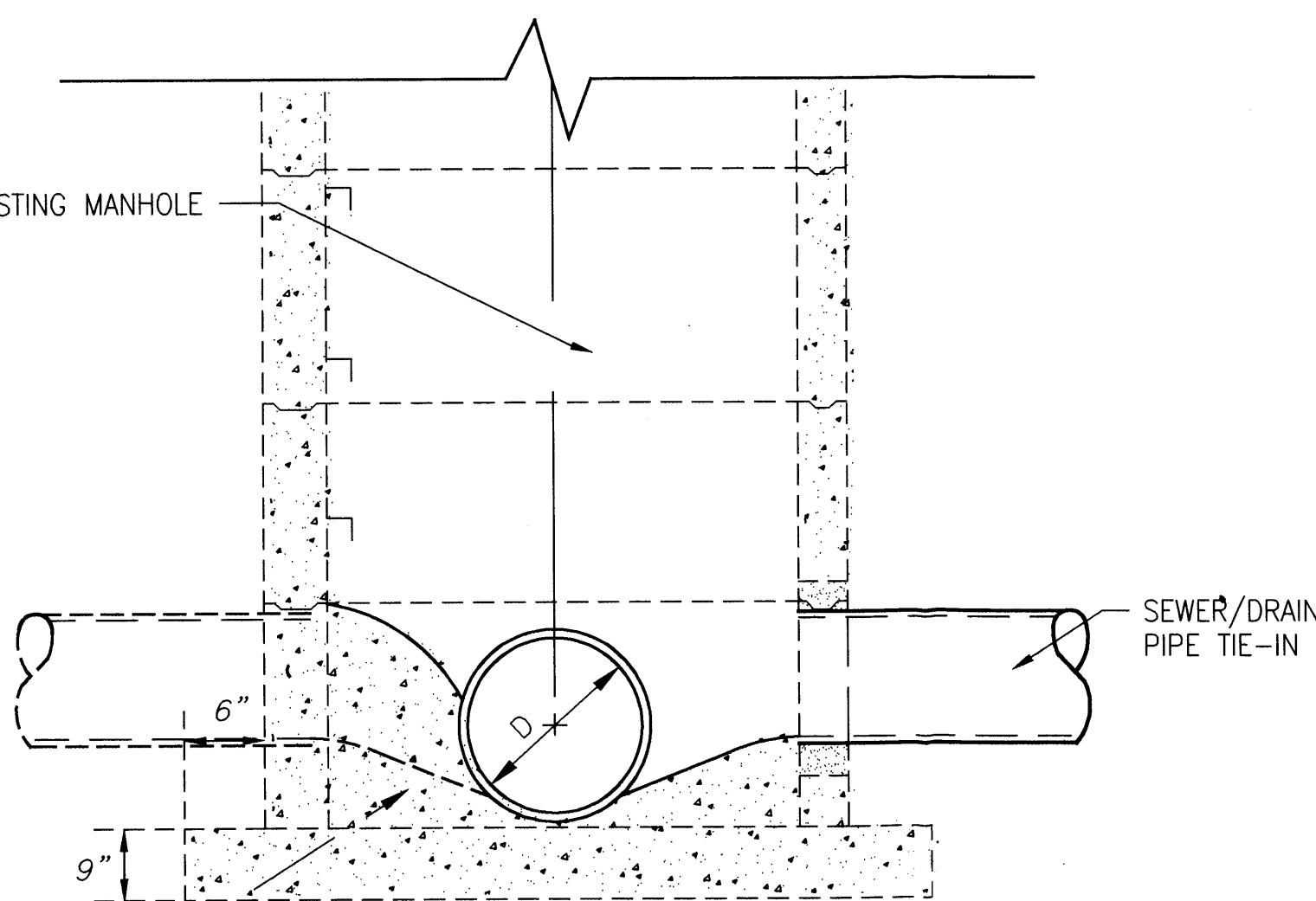
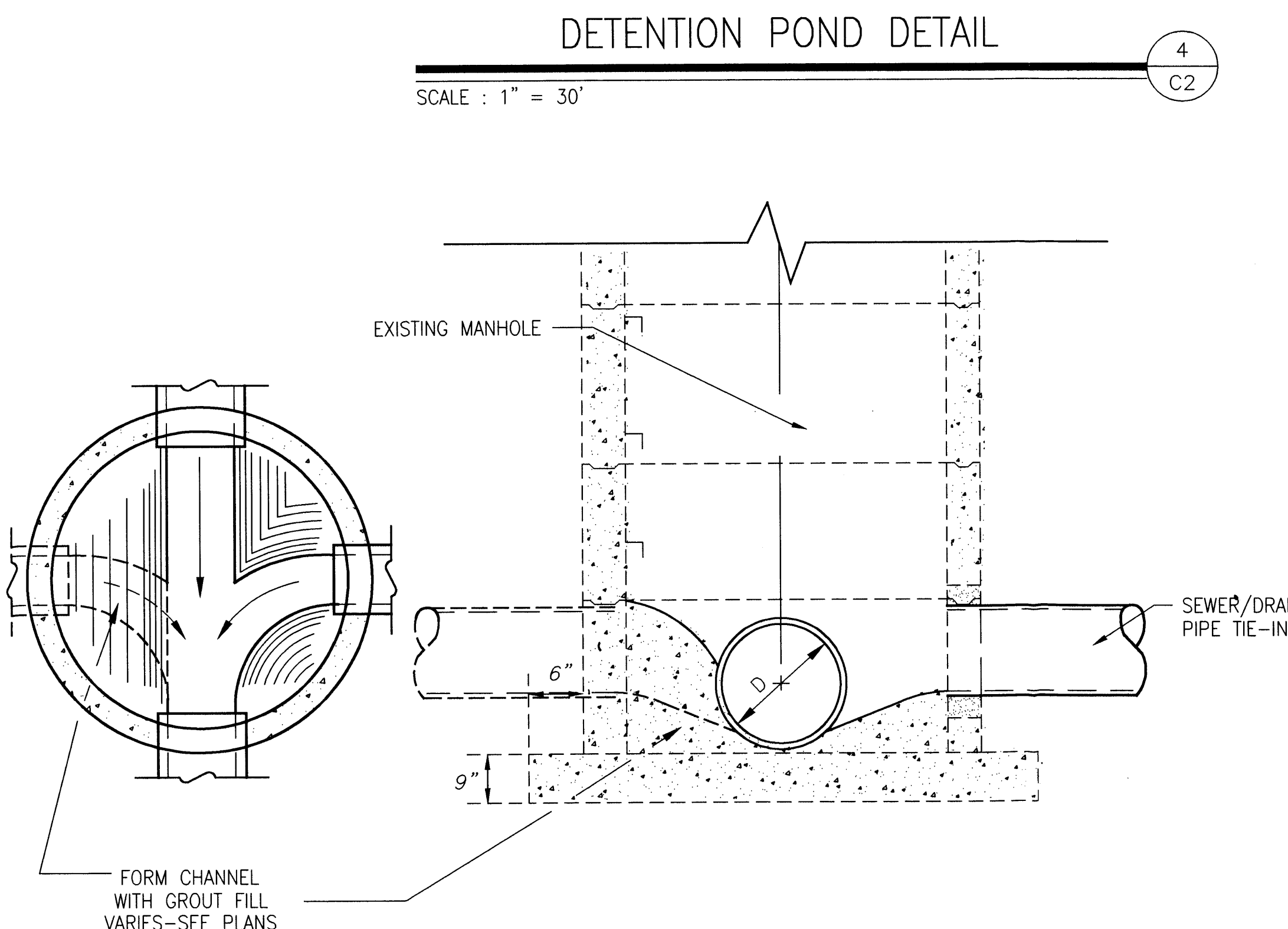
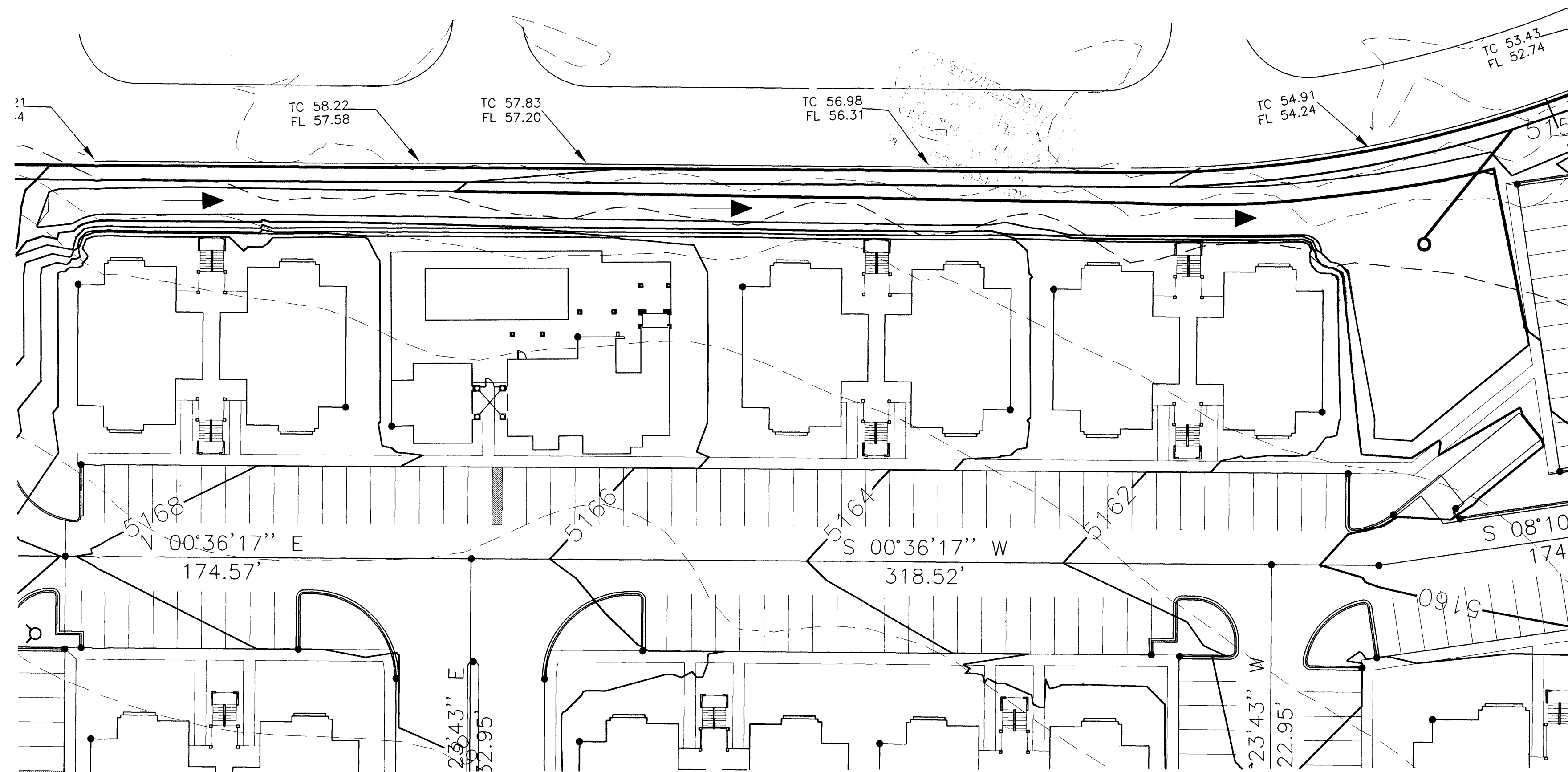
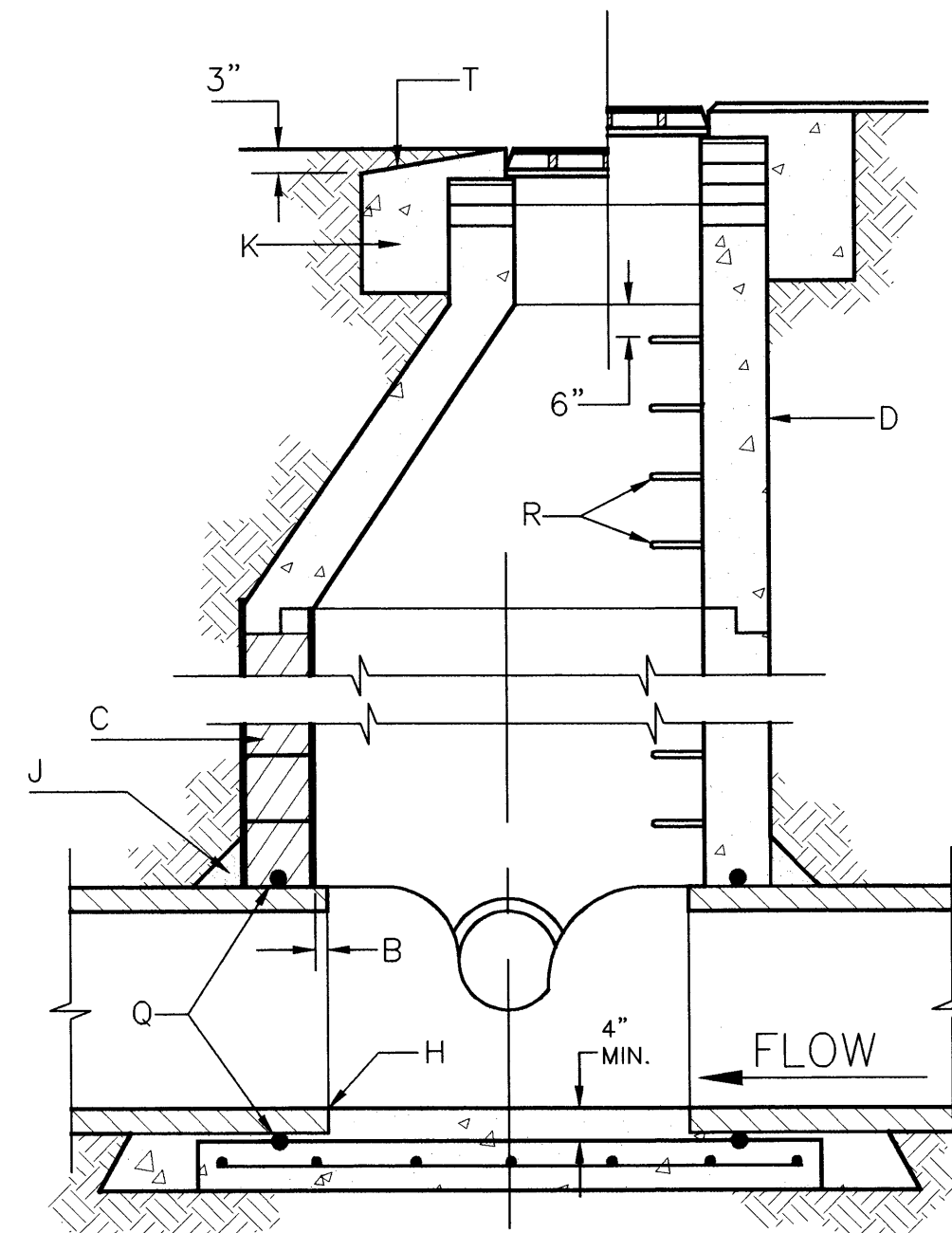
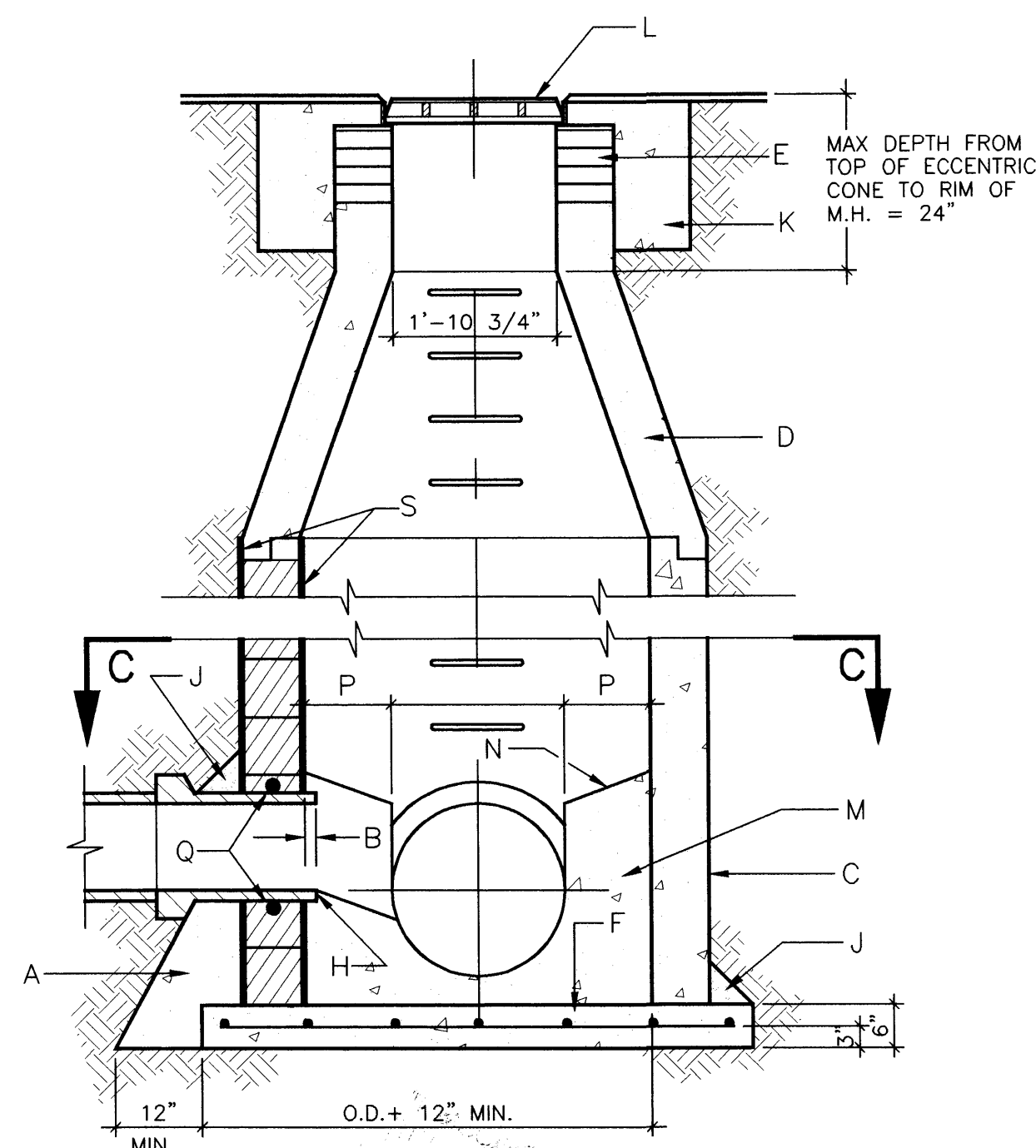
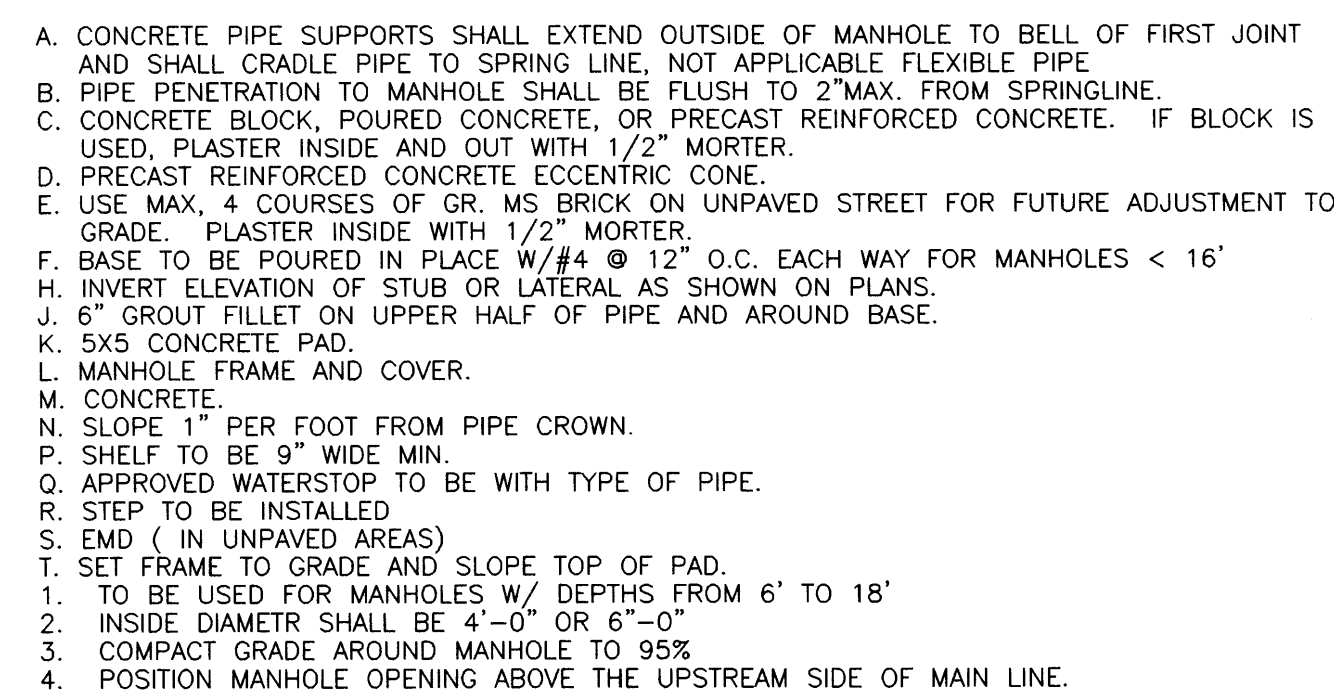
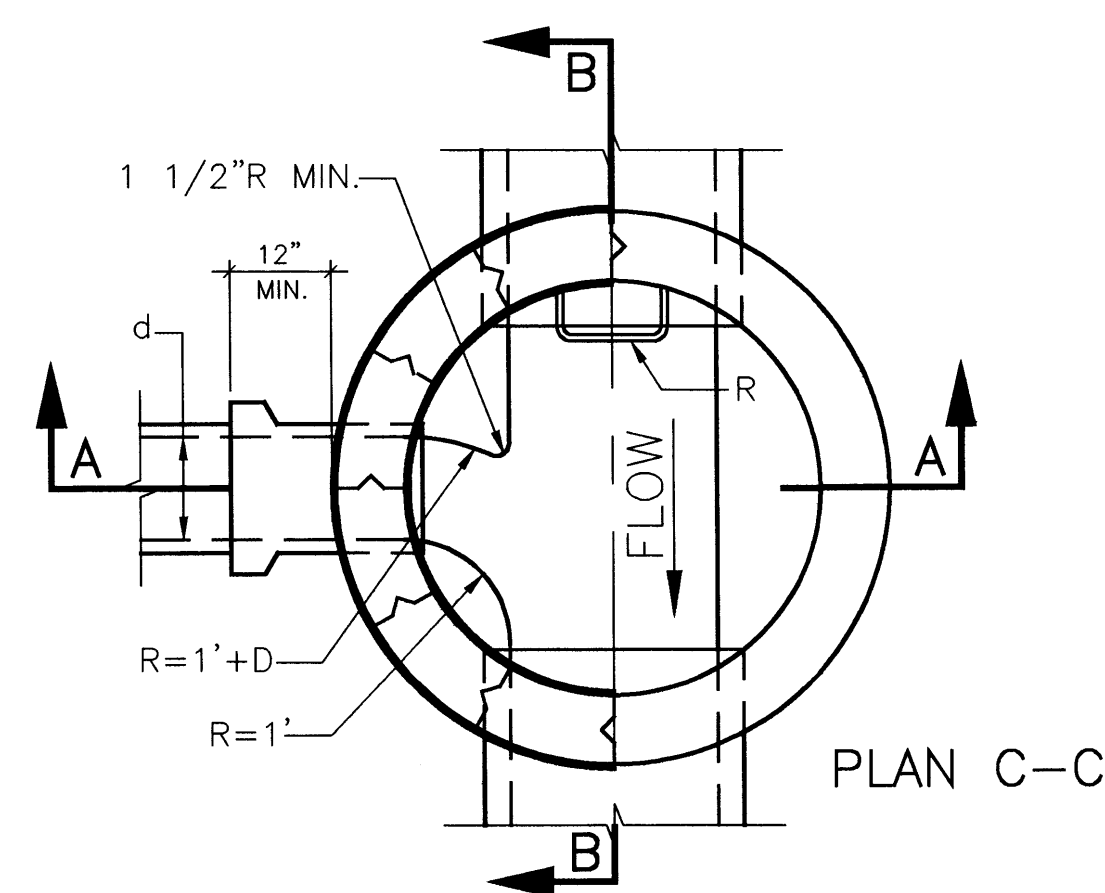
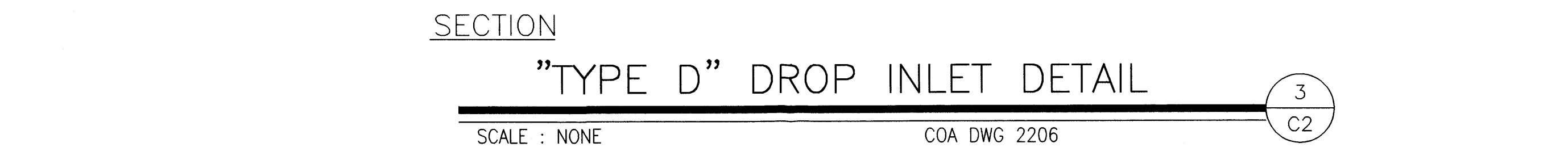
C1-



SCALE: 1" = 60' HOR
1" = 5' VER



HYDROLOGY SECTION
DEC 0 3 1998
RECEIVED
30
87
4001 JUAN TABO NE - A, ALBUQUERQUE
(505) 298-3477
NATIONAL WEATHER SERVICE
ALBUQUERQUE, NM
787
12/6/98 CON...



REV.	DATE	DESCRIPTION
PROJECT TITLE		
WESTWOOD APARTMENTS		
1998	MARKET STREET	ALBUQUERQUE, NEW MEXICO
SECTION TITLE		
SEWER, AND STORM DRAIN DETAILS		
DRAWN BY BHH		DATE: 3/5/98
DESIGN BY REH		C8
CHK'D BY REH		