

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TRIPLEX, 520 CARDENAS, S.E. ZONE ATLAS/ DRNG. FILE #: L-18-D 59

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOT 6, BLOCK 2, BARON BURG HEIGHTS ADDITION

CITY ADDRESS: 520 CARDENAS DR., S.E., ALBUQUERQUE, NM 87108

ENGINEERING FIRM: C.A. COONCE & ASSOC. CONTACT: C.A. COONCE

ADDRESS: 12324 PINERIDGE, N.E. PHONE: 296-1089

OWNER: BOBBY MAPLES / SAL DE LUCA CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS, S.E., 87108 PHONE: 232-2895

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: HARRIS SURVEYING, INC. CONTACT: TONY HARRIS

ADDRESS: 2412 MONROE, N.E., ABO, NM 87110 PHONE: (505) 898-8056

CONTRACTOR: BOBBY MAPLES CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS, S.E., ALBUQUERQUE, NM 87108 PHONE: (505) 232-2895

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

☐ OTHER

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

☐ PAVING PERMIT APPROVAL

☐ S.A.D. DRAINAGE REPORT

☐ DRAINAGE REQUIREMENTS

☐ SUBDIVISION CERTIFICATION

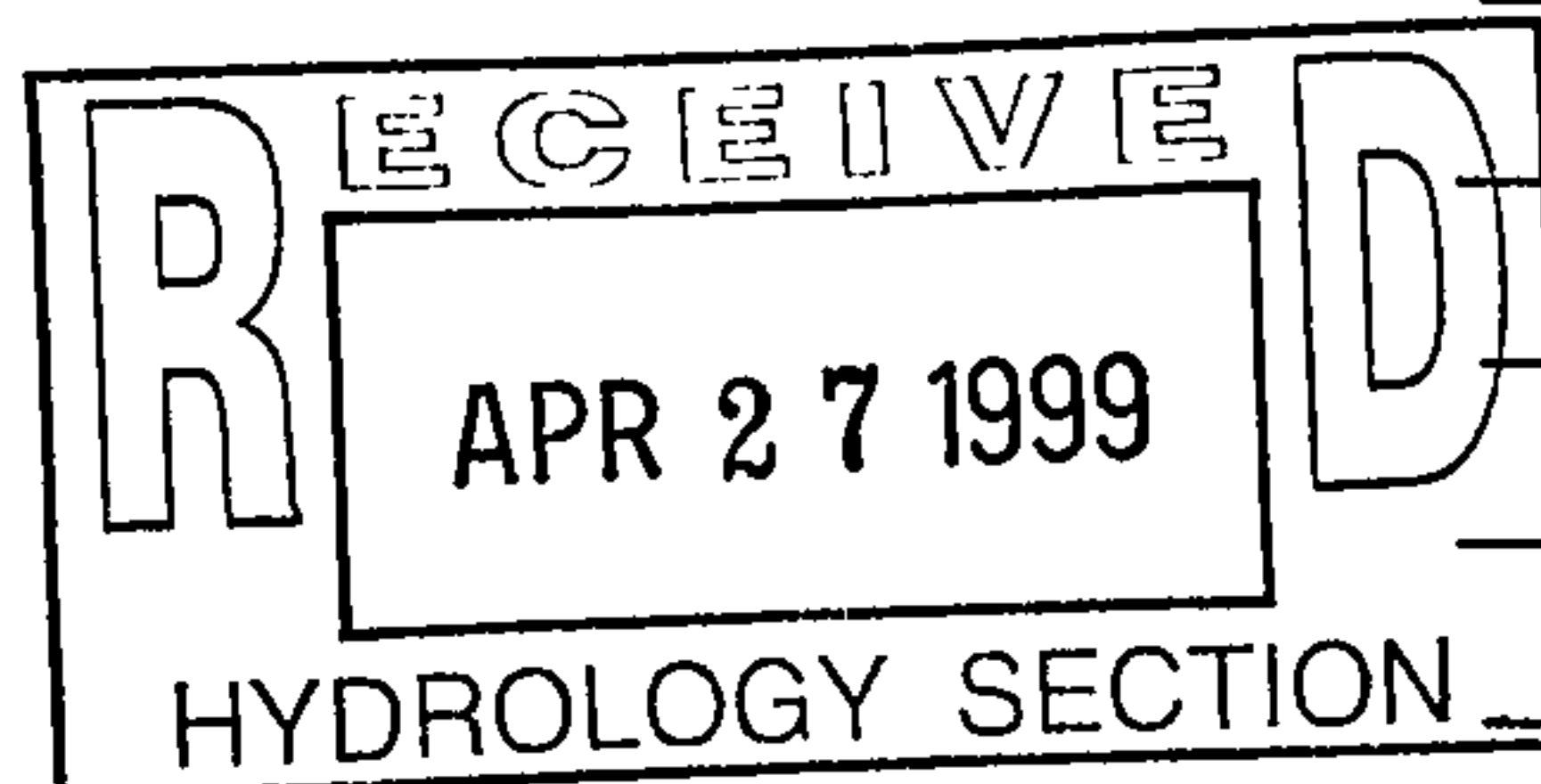
☐ OTHER _____ (SPECIFY)

PRE-DESIGN MEETING:

☐ YES

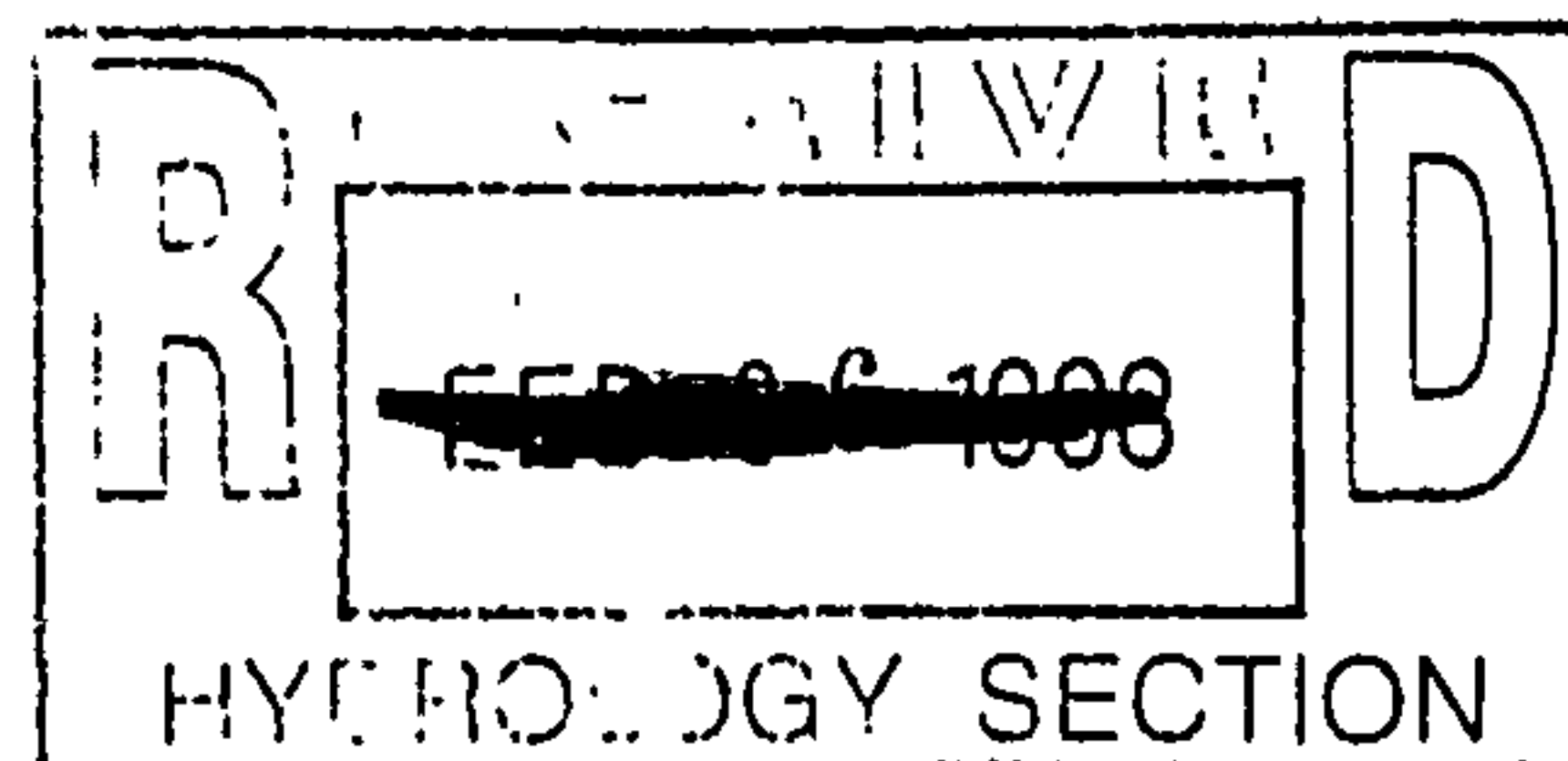
☒ NO

☐ COPY PROVIDED



DATE SUBMITTED: 02/28/99

BY: C.A. COONCE [Signature] 2/28/99



Uo CALCULATIONS FOR WALLS

TABLE W-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Wall Area (Ao)	31200	X		
2. Window Area (Ag)	801	X	.50	400.50
3. Door Area (Ad)	120	X	.32	38.40
4. Other Wall Component (Specify)				
5. Opaque Wall Area (Col. A, Line 1 - Col. A, Lines 2, 3, 4)	2679			
6. Framing (Afr) (SF = Col. A, Line 5 x Table W-2)	267.9	X	.10	26.79
7. Cavity (Ac) (sf = Col. A, Line 5 x Table W-2)	2411.1	X	.04	96.44
			TOTAL	562.13

TABLE W-2
FRAMING & CAVITY AREAS

Framing Spacing	Framing	Cavity
12"	0.13	0.87
16"	0.1	0.9
24"	0.06	0.94

TABLE W-3

OPAQUE WALL CALC.	(Framing & Cavity)	
(R VALUES)	Framing R	Cavity R
8. Outside Air Film	0.17	0.17
9. Exterior Finish 1" STUCCO	0.20	0.20
10. Outside Sheathing	1.20	1.20
11. Framing	6.92	
12. Cavity (a) Insulation (b) Air Space		19.00
13. Interior Finish	0.125	0.45
14. Inside Air Film	0.68	0.68
15. Other (Specify)	0.06	0.06
16. Other (Specify)		
17. Total RT Sum Lines 8 thru 16	9.58	21.76
18. U Framing = 1/RT	0.10	
19. U Cavity = 1/RT		0.04

TABLE W-4

Windows	
20. R Value	2.00
21. U2=1/R=	.50

TABLE W-5

Doors	
22. R Value	3.13
23. U3=1/R=	.32

$$U_o = \frac{U_1A_1 + U_2A_2 + U_3A_3 + U_4A_4 + \dots}{A_o}$$

Uo WALL =

RECEIVED	TABLE W-1
COL A LINE 1	0.10
APR 27 1999	
HYDROLOGY SECTION	

Uo CALCULATIONS FOR FLOOR

TABLE F-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Floor Area (Ao)	1738	X		
2. Other (Specify)		X		
3. Opaque Floor Area (Col. A, Line 1 - Col. A, Lines 2)	1738			
4. Framing (Afr) (SF = Col. A, Line 3 x Table F-2)	104.28	X	0.08	9.34
5. Cavity (Ac) (sf = Col. A, Line 3 x Table F-2)	1633.12	X	0.03	49.01
			TOTAL	
				57.35

TABLE F-2
FRAMING & CAVITY AREAS

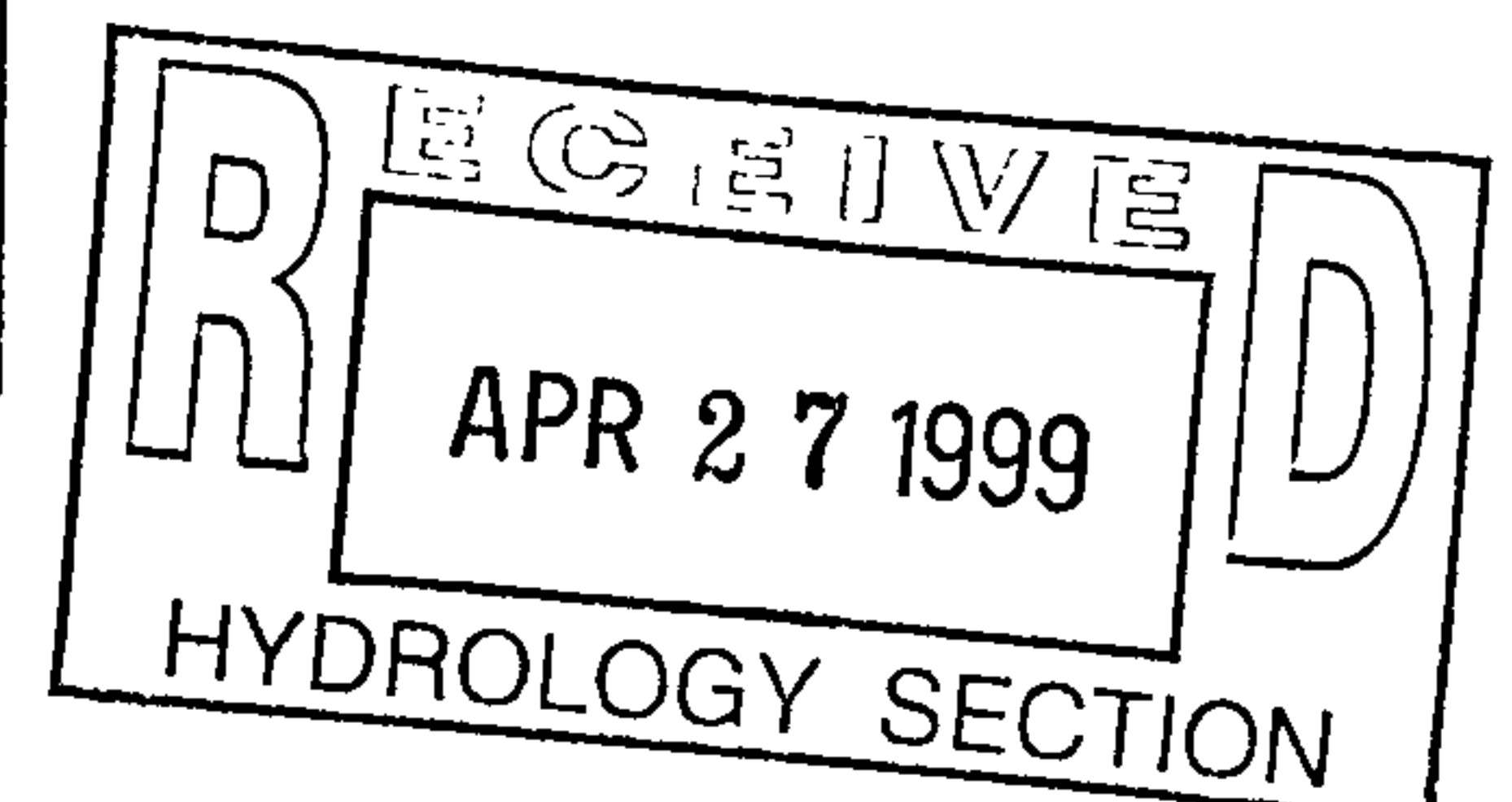
Framing Spacing	Framing	Cavity
12'	0.13	0.87
16'	0.1	0.9
24'	0.06	0.94

TABLE F-3

OPAQUE FLOOR CALC. (R VALUES)	(Framing & Cavity)	
	Framing R	Cavity R
6. Outside Air Film	0.17	0.17
7. Framing	9.3	
8. Cavity (a) Insulation (b) Air Space		30
9. Subfloor	0.93	0.93
10. Finish Floor	1.25	1.25
11. Carpet/Tile		
12. Inside Air Film	0.68	0.68
13. Other (Specify)		
14. Total RT Sum Lines 6 thru 13	12.33	33.03
15. U Framing = 1/RT	0.08	
16. U Cavity = 1/RT		0.03

TABLE F-4

17. R Value	
18. U=1/R=	



$$U_o = \frac{U_1 A_1 + U_2 A_2 + U_3 A_3 + \dots + U_n A_n}{A_o}$$

$$U_o \text{ FLOOR} = \frac{\text{TOTAL COL. C}}{\text{COL. A, LINE 1}}$$

0.03

Uo CALCULATIONS FOR ROOF & CEILING

TABLE R-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Roof Area (Ao)	1738	X		
2. Skylight Area (Ag)	24	X	0.58	13.92
3. Other (Specify)				
4. Opaque Wall Area (Col. A, Line 1 - Col. A, Lines 2 & 3)	1714			
5. Framing (Afr) (SF = Col. A, Line 4 x Table R-2)	171.4	X	0.05	8.57
6. Cavity (Ac) (sf = Col. A, Line 4 x Table R-2)	1542.6	X		
			0.03	46.28
			TOTAL	68.77

TABLE R-2
FRAMING & CAVITY AREAS

Framing Spacing	Framing	Cavity
12'	0.13	0.87
16'	0.1	0.9
24'	0.06	0.94

TABLE R-3

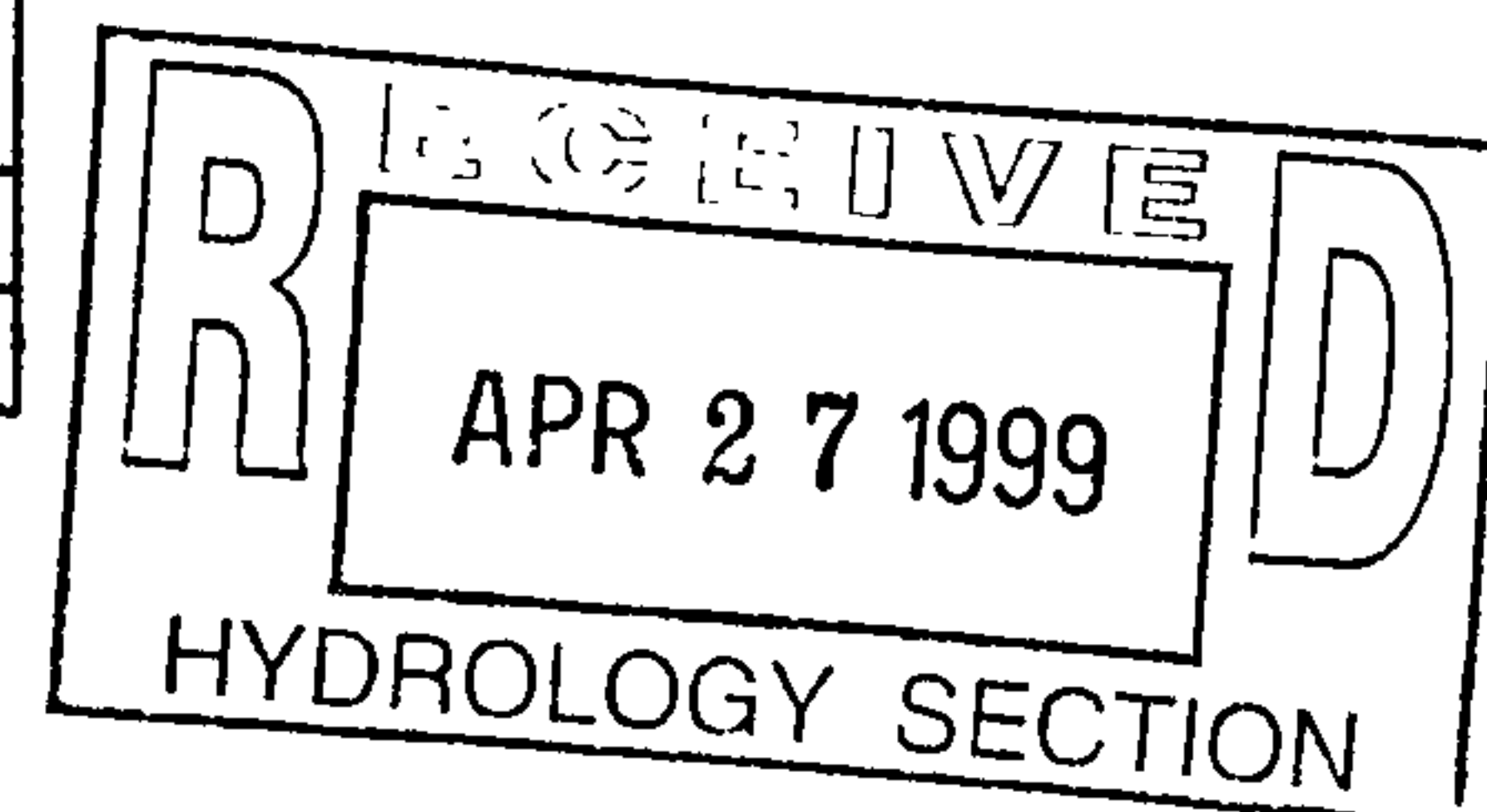
OPAQUE ROOF CALC. (R VALUES)	(Framing & Cavity)	
	Framing R	Cavity R
7. Outside Air Film	0.17	0.17
8. Exterior Finish	0.33	0.33
9. Outside Sheathing	0.62	0.62
10. Framing	14.216	
11. Cavity		
(a) Insulation		30.00
(b) Air Space		
12. Interior Finish	0.45	0.45
13. Inside Air Film	0.68	0.68
14. Other (Specify)		
15. Total RT Sum Lines 7 thru 14	30.85	32.25
16. U Framing = 1/RT	0.05	
17. U Cavity = 1/RT		0.03

TABLE W-4

Skylight	
18. U Value	0.58

TABLE W-5

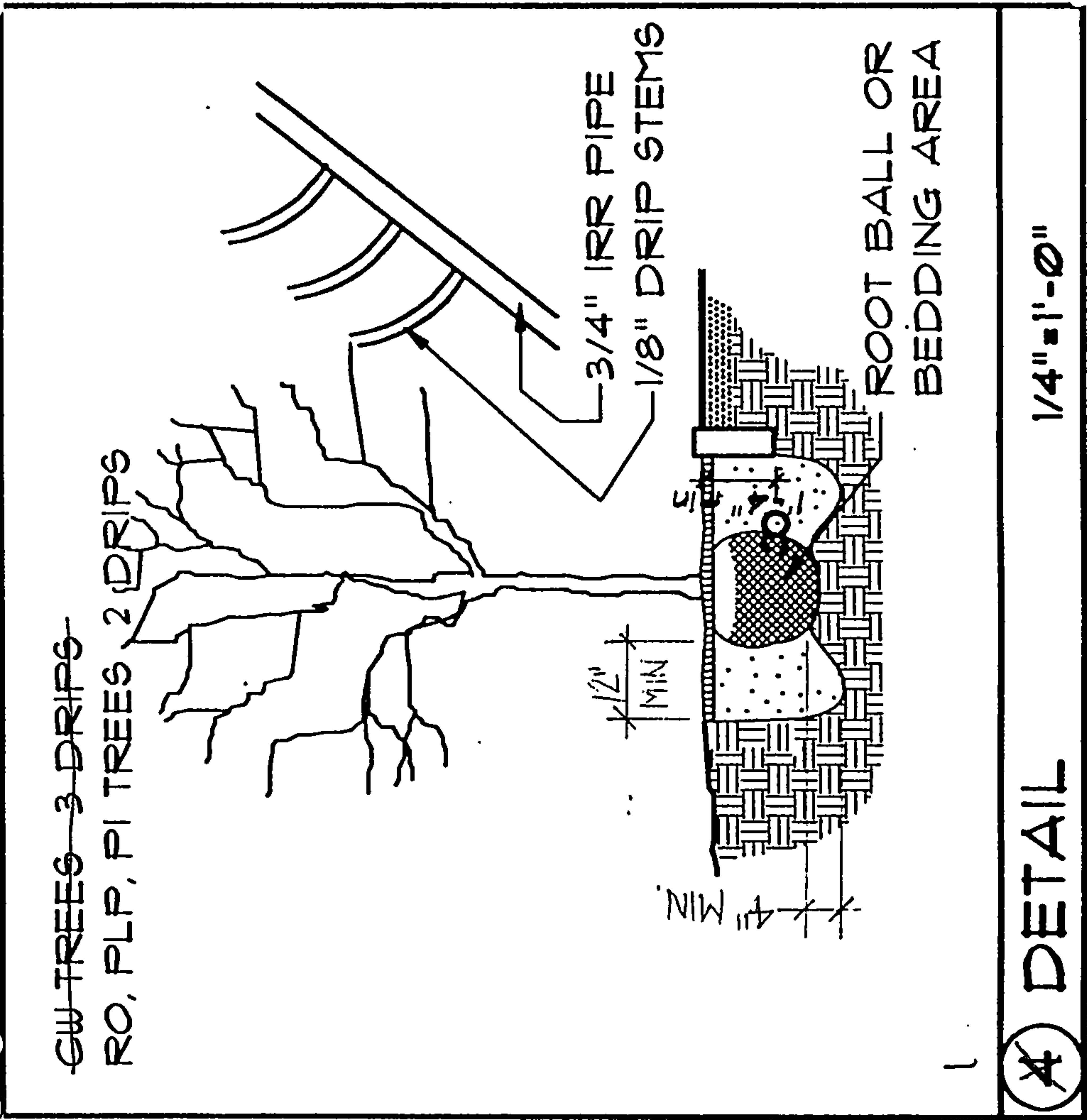
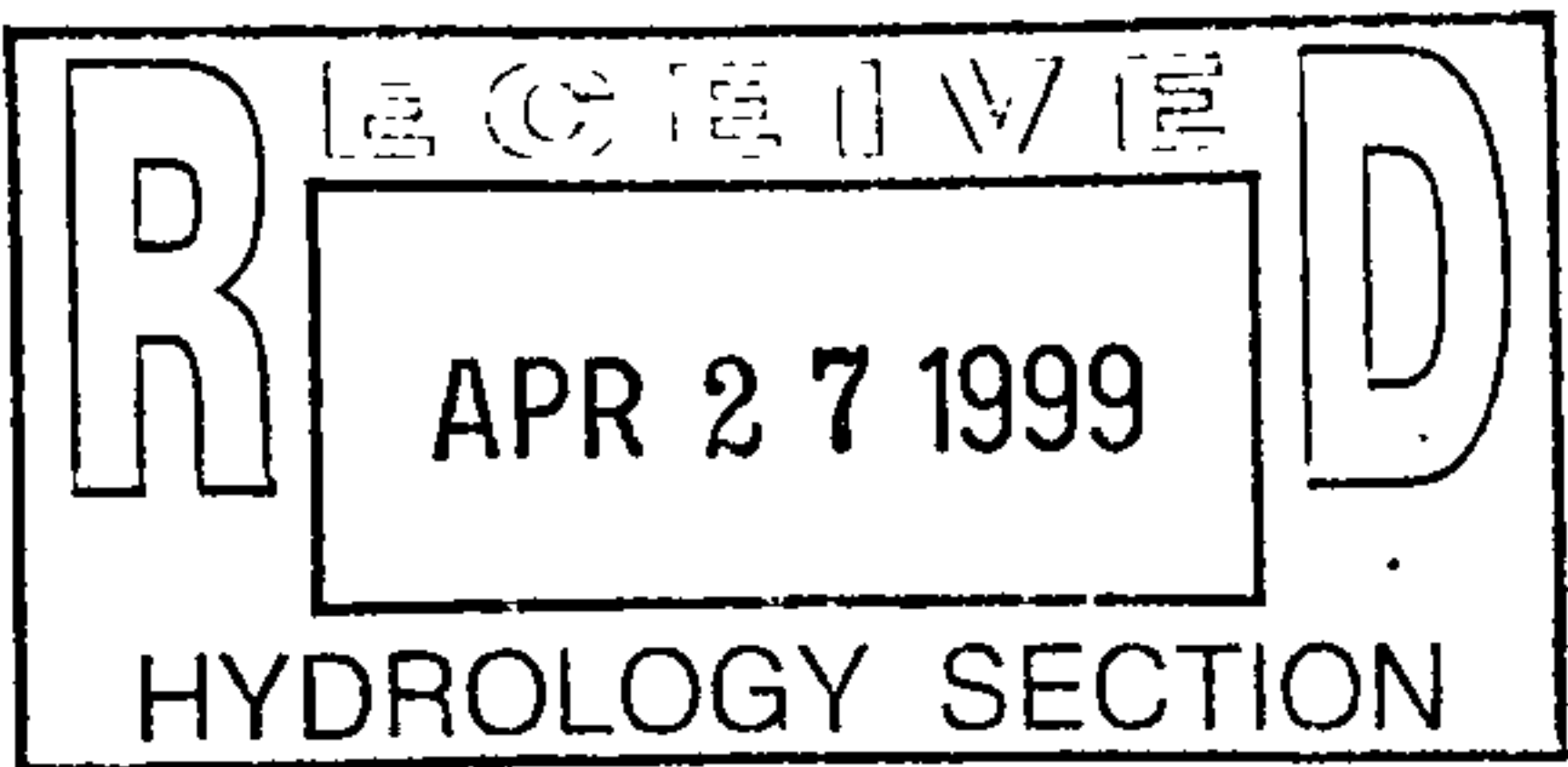
Other (Specify)	
19. R Value	
20. U=1/R=	



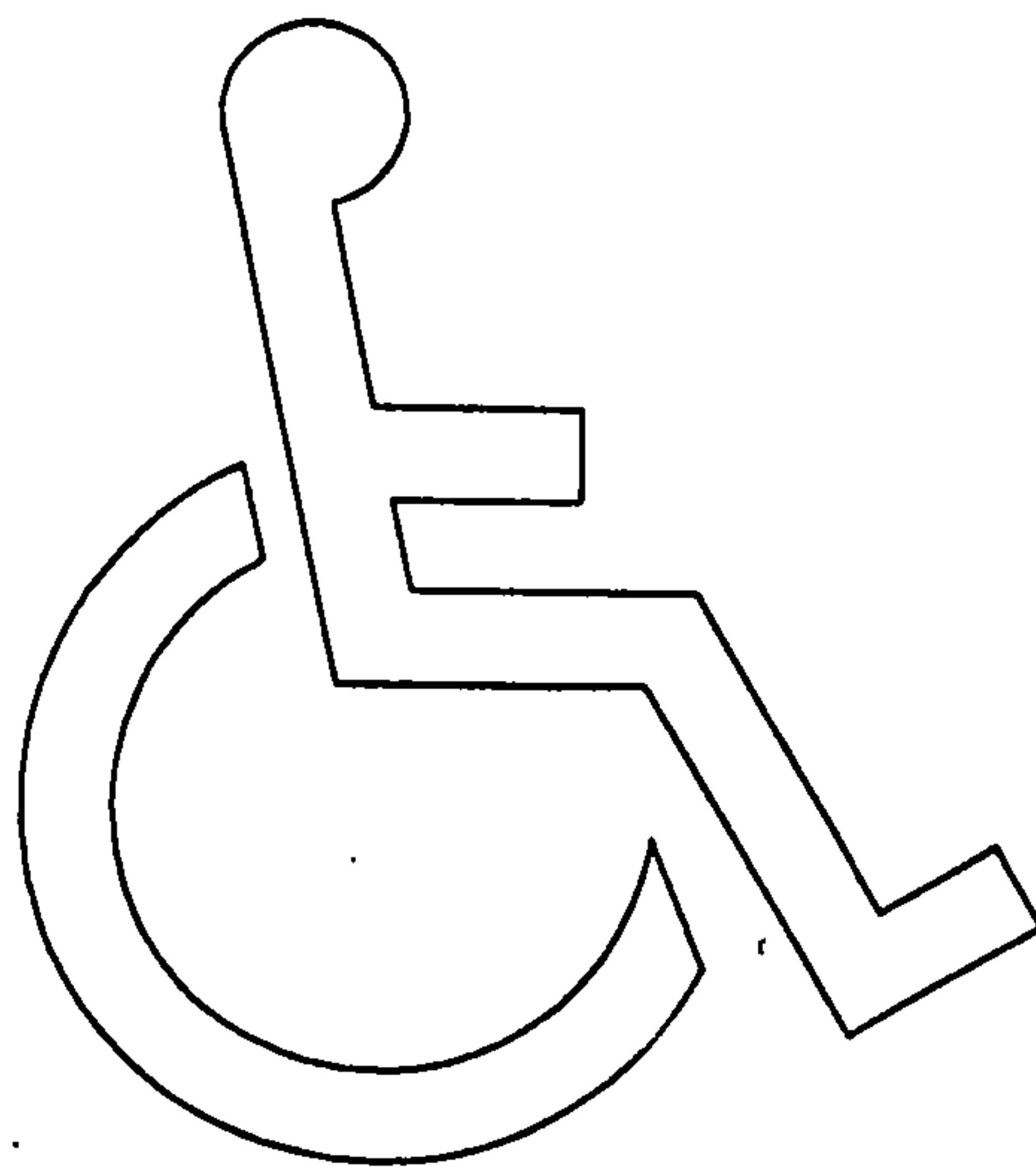
$$U_o = \frac{U_1 A_1 + U_2 A_2 + U_3 A_3 + \dots + U_n A_n}{A_o}$$

$$U_o \text{ ROOF} = \frac{\text{TOTAL COL C}}{\text{COL. A, LINE 1}}$$

0.03

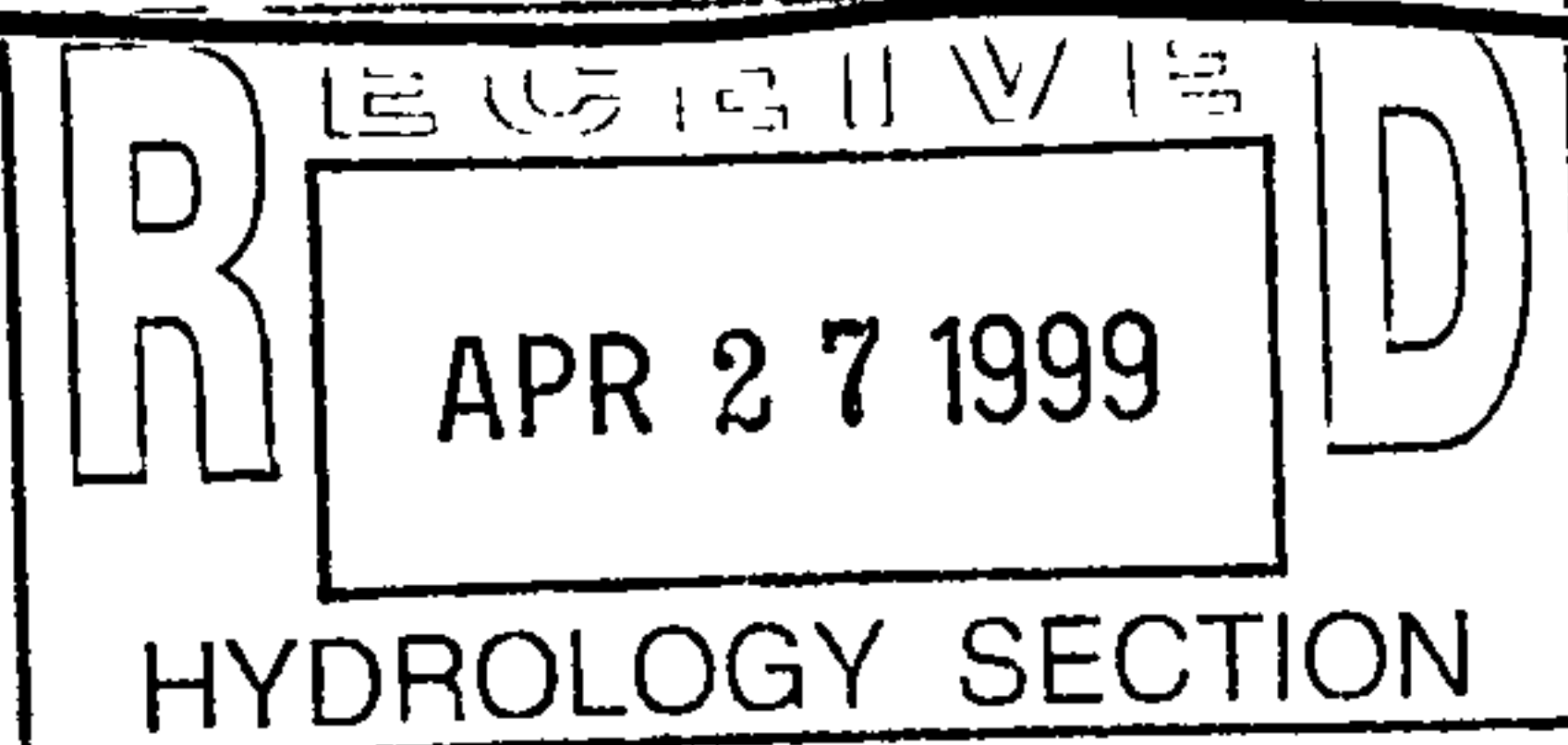


PAINTED IN WHITE IN CENTER OF
HANDICAPPED PARKING STALLS



② DETAIL

1/2" = 1'-0"

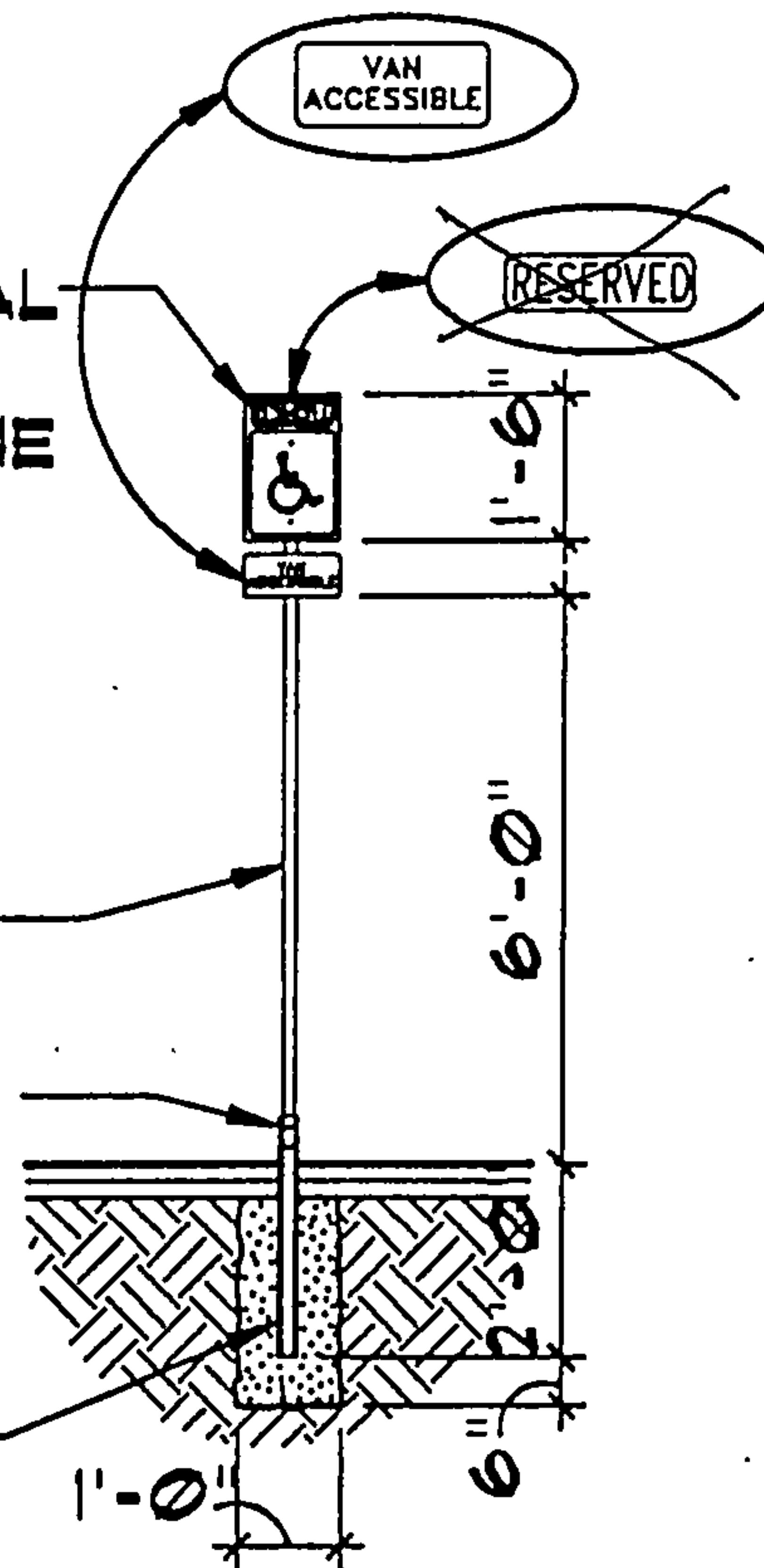


18" X 12" 20 GAGE METAL
HANDICAPPED SIGN.
WHITE SYMBOL ON BLUE
BACKGROUND.
ATTACHED BY
(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 1/2" X 1 1/2" X 12 GAGE
GALV. SQUARE POST

(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 3/4" X 1 3/4" X 2' 6"
X 12 GAGE GALV.
SQUARE POST



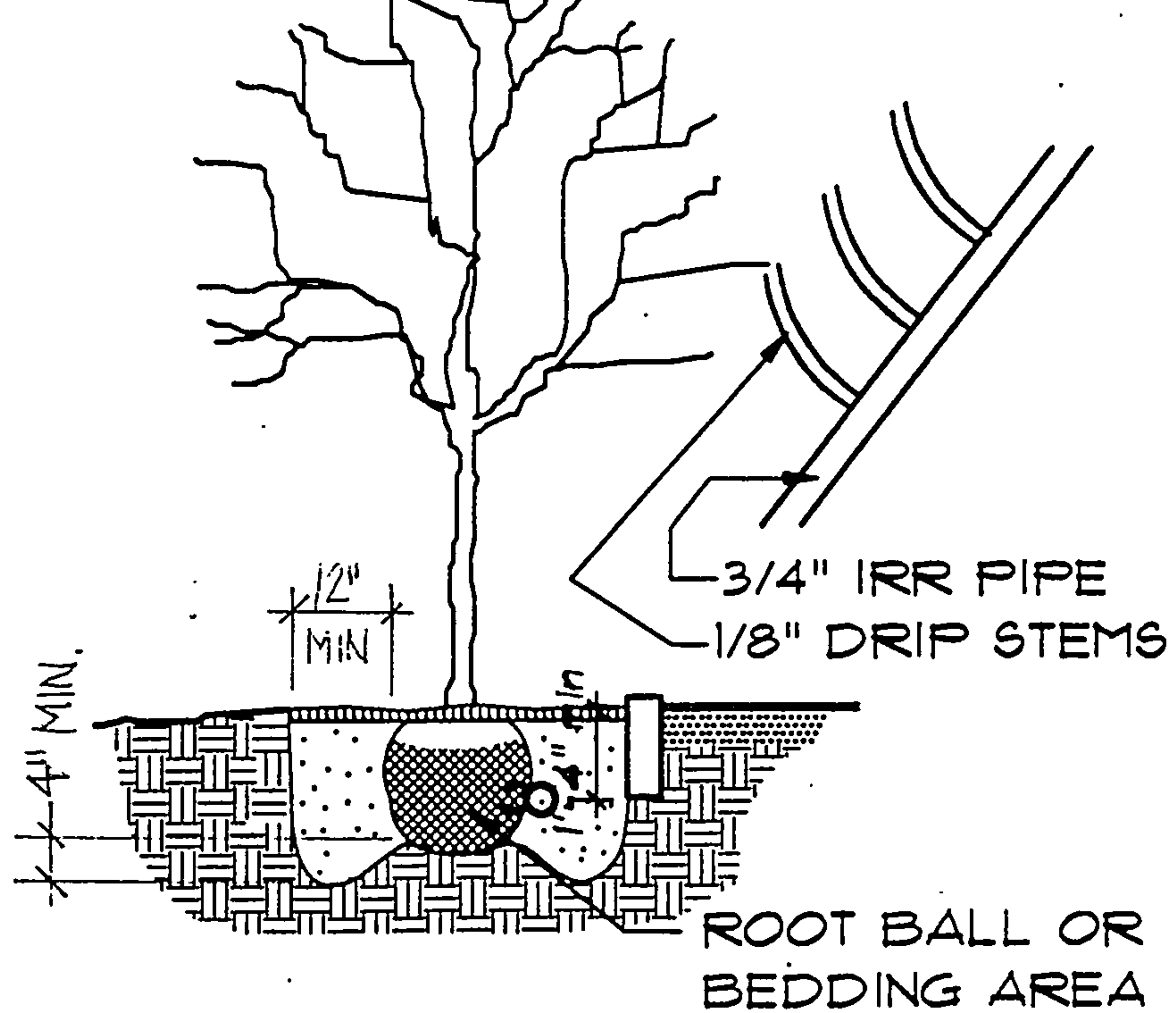
3

DETAIL

1/4" = 1'-0"

REGISTRATION
APR 27 1999
HYDROLOGY SECTION

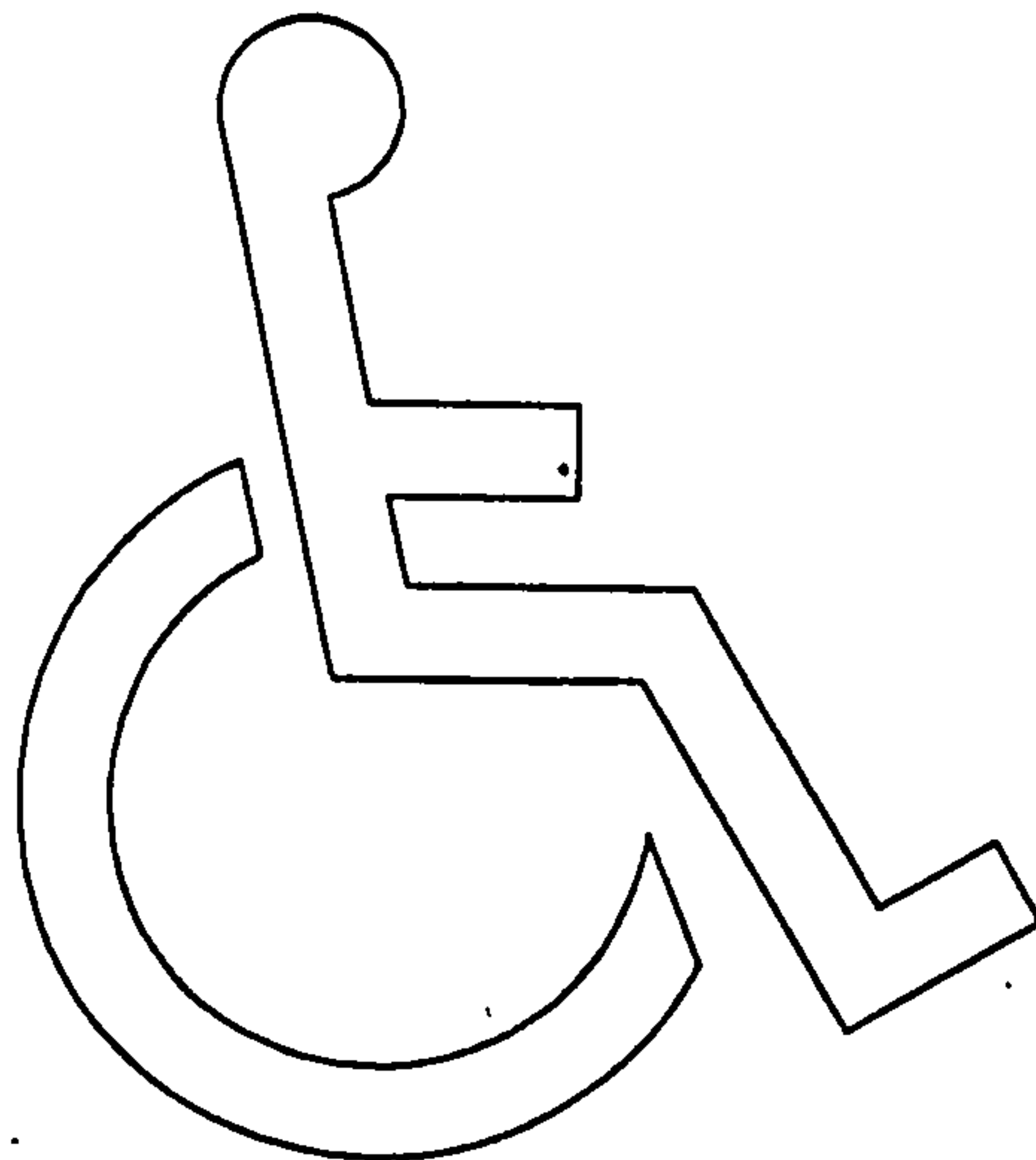
~~CW TREES 3 DRIPS~~
RO, PLP, PI TREES 2 DRIPS



(14) DETAIL

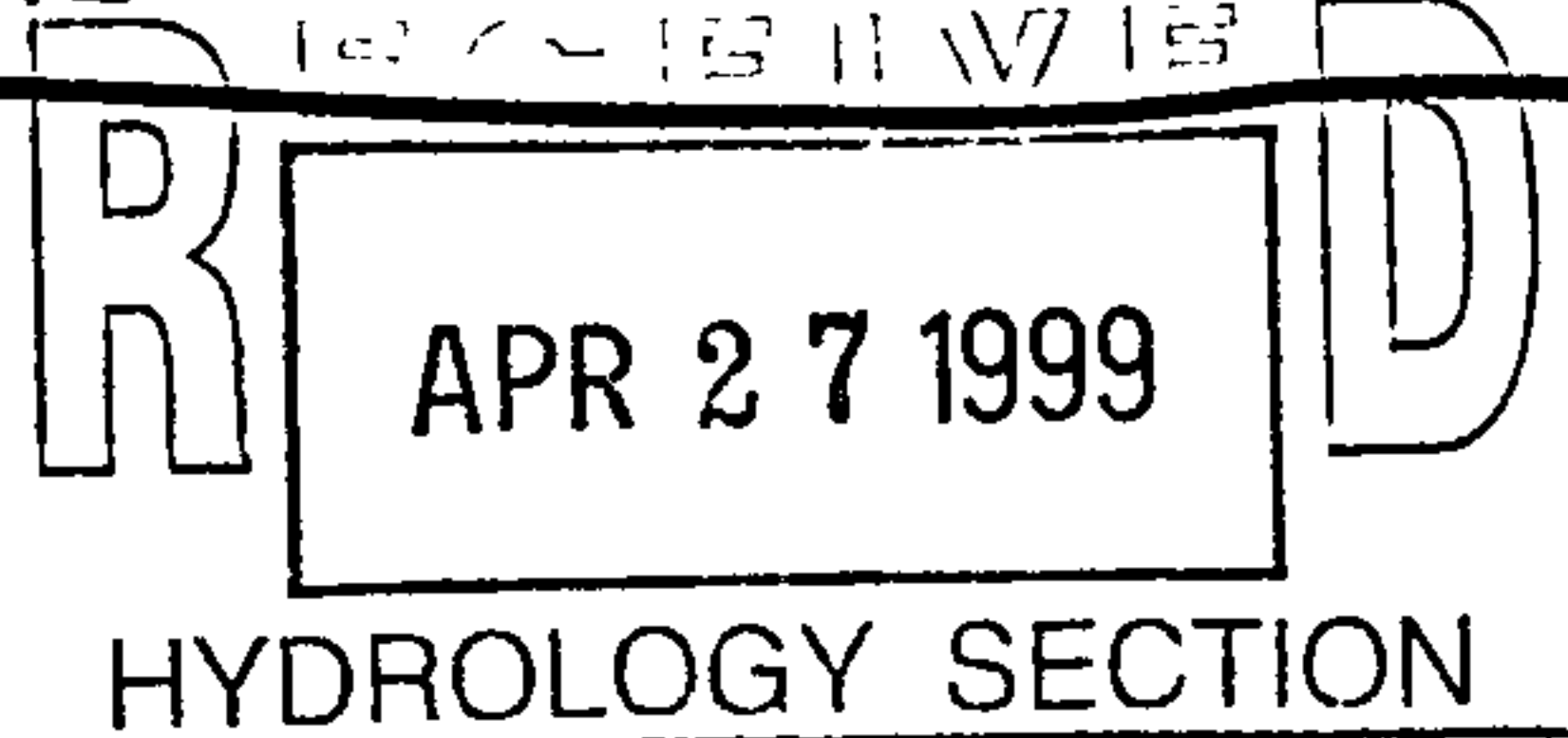
1/4" = 1'-0"

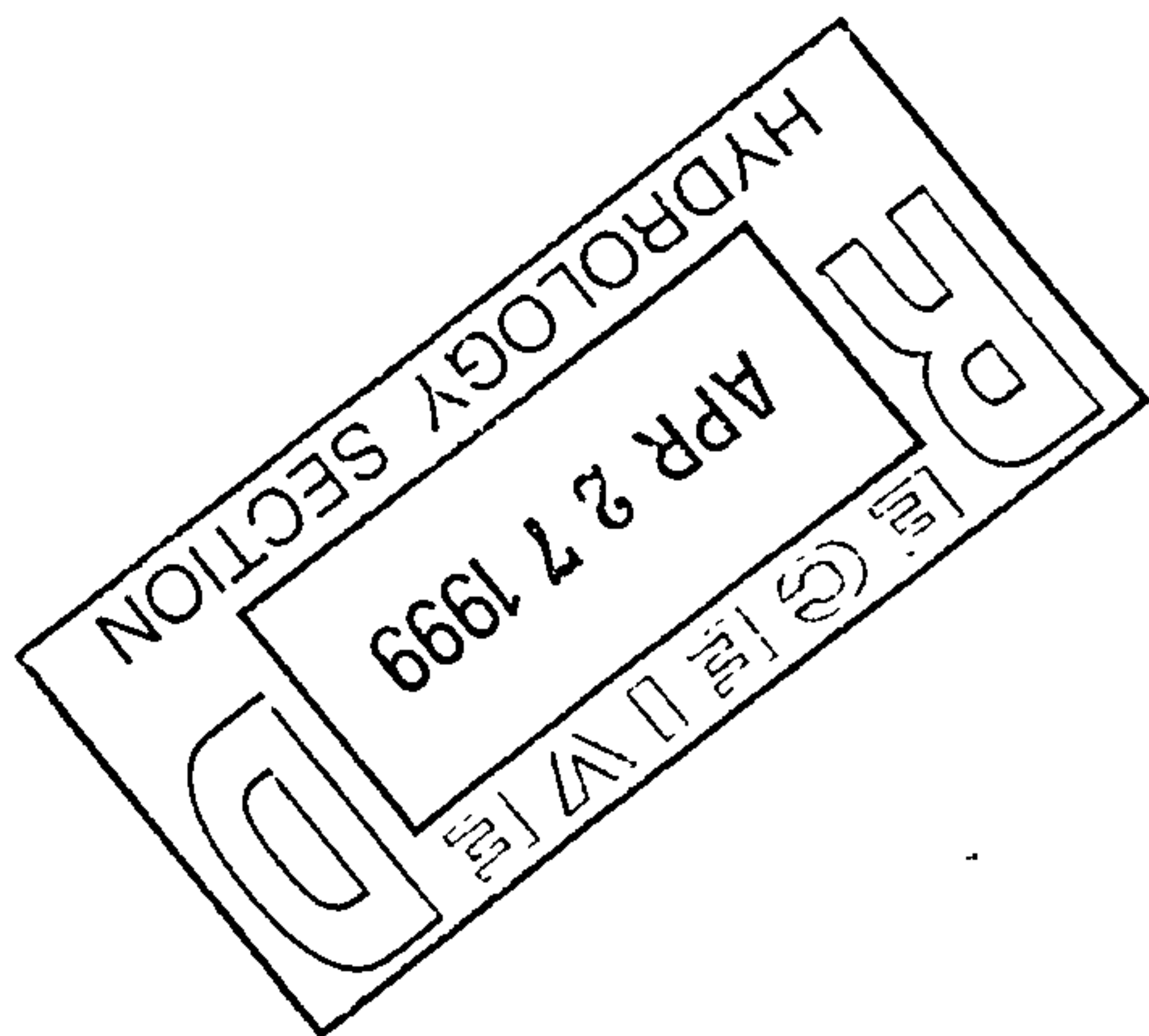
PAINTED IN WHITE IN CENTER OF
HANDICAPPED PARKING STALLS



② DETAIL

1/2" = 1'-0"



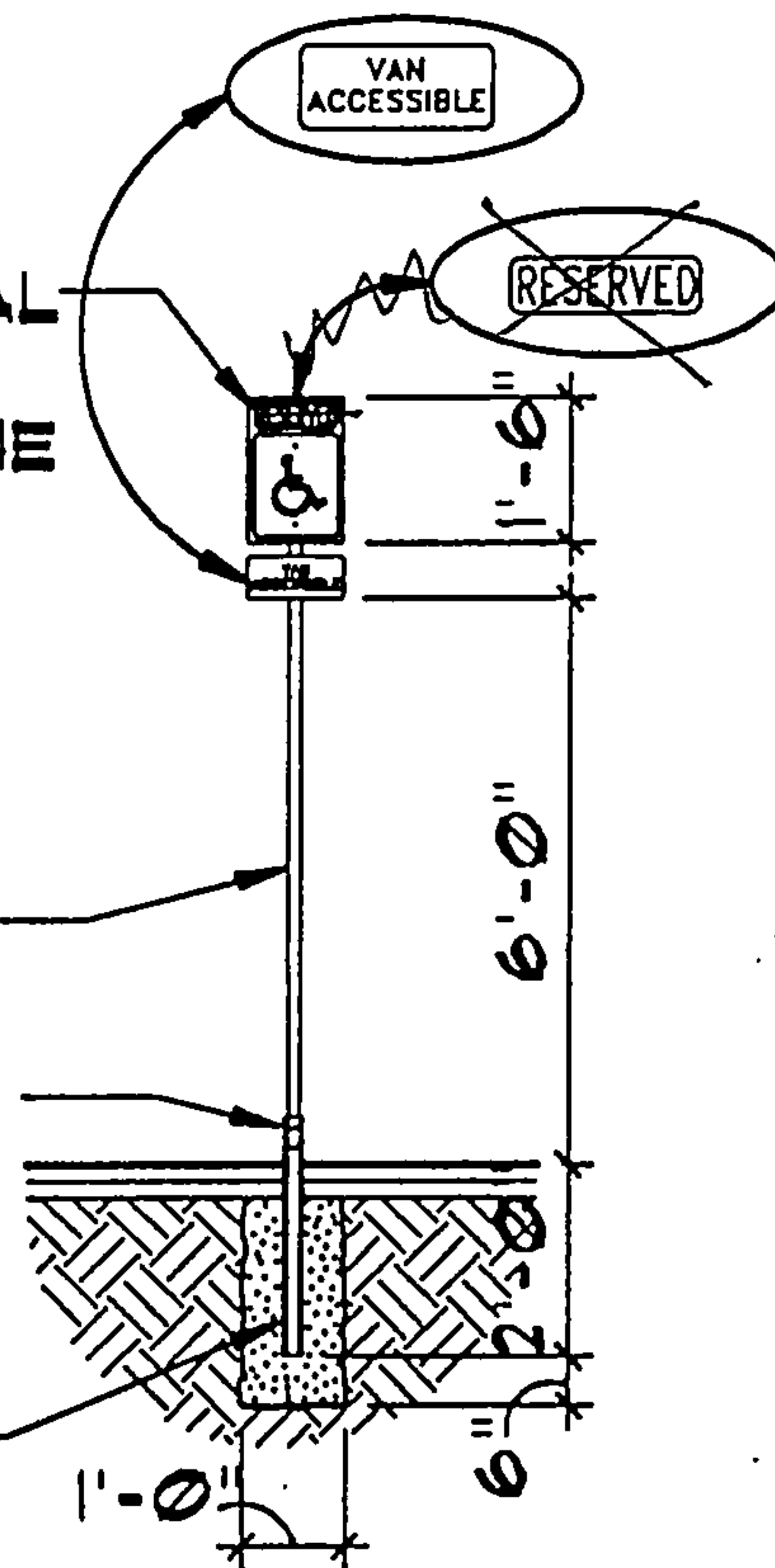


18" X 12" 20 GAGE METAL
HANDICAPPED SIGN.
WHITE SYMBOL ON BLUE
BACKGROUND.
ATTACHED BY
(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 1/2" X 1 1/2" X 12 GAGE
GALV. SQUARE POST

(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 3/4" X 1 3/4" X 2' 6"
X 12 GAGE GALV.
SQUARE POST



~~6~~ DETAIL

1/4" = 1'-0"

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TRIPLEX, 520 CARDENAS, S.E. ZONE ATLAS/ DRNG. FILE #: L-18-D

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOT 6, BLOCK 2, BARON BURG HEIGHTS ADDITION

CITY ADDRESS: 520 CARDENAS DR., S.E., ALBUQUERQUE, NM 87108

ENGINEERING FIRM: C.A. COONCE & ASSOC. CONTACT: C.A. COONCE

ADDRESS: 12324 PINERIDGE, N.E. PHONE: 296-1089

OWNER: BOBBY MAPLES / SAL DE LUCA CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS, S.E., 87108 PHONE: 232-2895

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: HARRIS SURVEYING, INC. CONTACT: TONY HARRIS

ADDRESS: 2412 MONROE, N.E., ABO, NM 87110 PHONE: (505) 898-8056

CONTRACTOR: BOBBY MAPLES CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS, S.E., ALBUQUERQUE, NM 87108 PHONE: (505) 232-2895

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

R E C E I V E D

APR 27 1999

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

☒ BUILDING PERMIT APPROVAL

☐ CERTIFICATE OF OCCUPANCY APPROVAL

☐ GRADING PERMIT APPROVAL

☐ PAVING PERMIT APPROVAL

☐ S.A.D. DRAINAGE REPORT

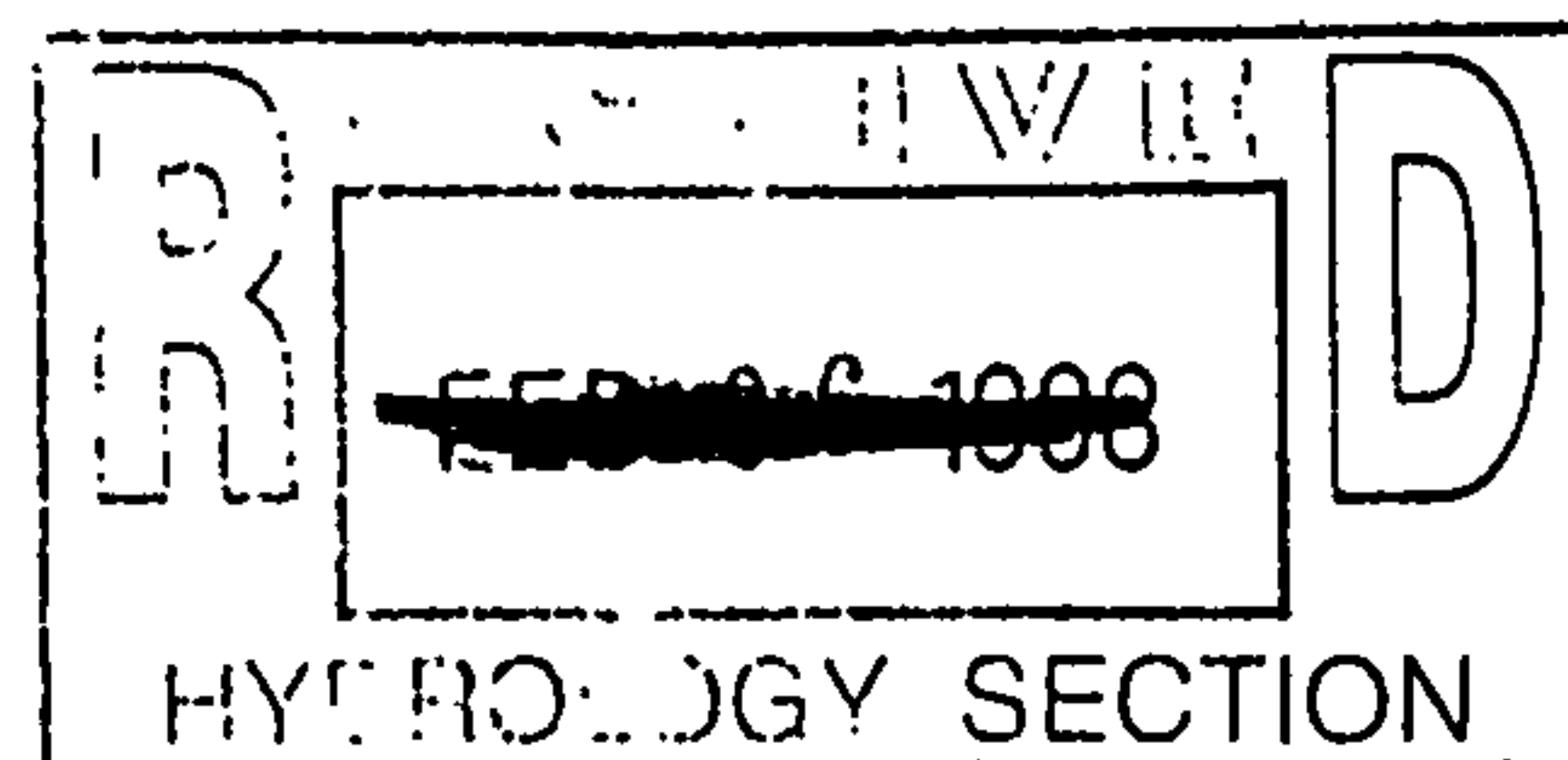
☐ DRAINAGE REQUIREMENTS

☐ SUBDIVISION CERTIFICATION

☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 02/03/99

BY: C.A. COONCE *[Signature]*



U₀ CALCULATIONS FOR WALLS

TABLE W-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Wall Area (A ₀)	3,400	X		
2. Window Area (A _g)	801	X	.50	400.50
3. Door Area (A _d)	120	X	.32	38.40
4. Other Wall Component (Specify)				
5. Opaque Wall Area (Col. A, Line 1 - Col. A, Lines 2, 3, 4)	2679			
6. Framing (A _{fr}) (SF = Col. A, Line 5 x Table W-2)	267.9	X	.10	26.79
7. Cavity (A _c) (sf = Col. A, Line 5 x Table W-2)	2411.1	X	.04	96.44
			TOTAL	562.13

TABLE W-2
FRAMING & CAVITY AREAS

Framing Spacing	Framing	Cavity
12'	0.13	0.87
16'	0.1	0.9
24'	0.06	0.94

TABLE W-3

OPAQUE WALL CALC.	(Framing & Cavity)	
(R VALUES)	Framing R	Cavity R
8. Outside Air Film	0.17	0.17
9. Exterior Finish 1" STUCCO	0.20	0.20
10. Outside Sheathing	1.30	1.30
11. Framing	6.82	
12. Cavity (a) Insulation (b) Air Space		19.00
13. Interior Finish	0.45	0.45
14. Inside Air Film	0.68	0.68
15. Other (Specify)	0.06	0.06
16. Other (Specify)		
17. Total RT Sum Lines 8 thru 16	9.58	21.16
18. U Framing = 1/RT	0.10	
19. U Cavity = 1/RT		0.04

TABLE W-4

Windows	
20. R Value	2.00
21. U2=1/R=	.50

TABLE W-5

Doors	
22. R Value	3.13
23. U3=1/R=	.32

$$U_0 = \frac{U_1A_1 + U_2A_2 + U_3A_3 + U_4A_4 + \dots}{A_0}$$

$$U_0 \text{ WALL} = \frac{\text{TOTAL COL. C}}{\text{COL. A, LINE 1}}$$

0.15

Uo CALCULATIONS FOR FLOOR

TABLE F-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Floor Area (Ao)	1738	X		
2. Other (Specify)		X		
3. Opaque Floor Area (Col. A Line 1 - Col. A Lines 2)	1738			
4. Framing (Afr) (SF = Col. A, Line 3 x Table F-2)	104.28	X	0.08	9.34
5. Cavity (Ac) (sf = Col. A, Line 3 x Table F-2)	1633.12	X	0.03	49.01
			TOTAL	
				57.35

TABLE F-2
FRAMING & CAVITY AREAS

Framing Spacing	Framing	Cavity
12'	0.13	0.87
16'	0.1	0.9
24'	0.06	0.94

TABLE F-3

OPAQUE FLOOR CALC. (R VALUES)	(Framing & Cavity)	
	Framing R	Cavity R
6. Outside Air Film	0.17	0.17
7. Framing	9.3	
8. Cavity (a) Insulation (b) Air Space		30
9. Subfloor	0.93	0.93
10. Finish Floor	1.25	1.25
11. Carpet/Tile		
12. Inside Air Film	0.68	0.68
13. Other (Specify)		
14. Total RT Sum Lines 6 thru 13	12.33	33.03
15. U Framing = 1/RT	0.08	
16. U Cavity = 1/RT		0.03

TABLE F-4

17. R Value	
18. U = 1/R =	

$$U_o = \frac{U_1A_1 + U_2A_2 + U_3A_3 + \dots + U_nA_n}{A_o}$$

$$U_o \text{ FLOOR} = \frac{\text{TOTAL COL. C}}{\text{COL. A, LINE 1}}$$

0.03

Uo CALCULATIONS FOR ROOF & CEILING

TABLE R-1

	Column A (SF)		Column B (U)	Column C (SF X U)
1. Gross Roof Area (Ao)	1738	X		
2. Skylight Area (Ag)	24	X	0.58	13.92
3. Other (Specify)				
4. Opaque Wall Area (Col. A, Line 1 -Col. A, Lines 2 & 3)	1714			
5. Framing (Afr) (SF = Col. A, Line 4 x Table R-2)	171.4	X	0.05	8.57
6. Cavity (Ac) (sf = Col. A, Line 4 x Table R-2)	1542.6	X		
			0.03	46.28
			TOTAL	68.77

TABLE R-2
FRAMING & CAVITY AREAS

Framing Spacing	Framing	Cavity
12"	0.13	0.87
16"	0.1	0.9
24"	0.06	0.94

TABLE R-3

OPAQUE ROOF CALC. (R VALUES)	(Framing & Cavity)	
	Framing R	Cavity R
7. Outside Air Film	0.17	0.17
8. Exterior Finish	0.33	0.33
9. Outside Sheathing	0.62	0.62
10. Framing	14.26	
11. Cavity (a) Insulation (b) Air Space		30.00
12. Interior Finish	0.45	0.45
13. Inside Air Film	0.68	0.68
14. Other (Specify)		
15. Total RT Sum Lines 7 thru 14	20.95	32.25
16. U Framing = 1/RT	.05	
17. U Cavity = 1/RT		.03

TABLE W-4

Skylight	
18. U Value	.58

TABLE W-5

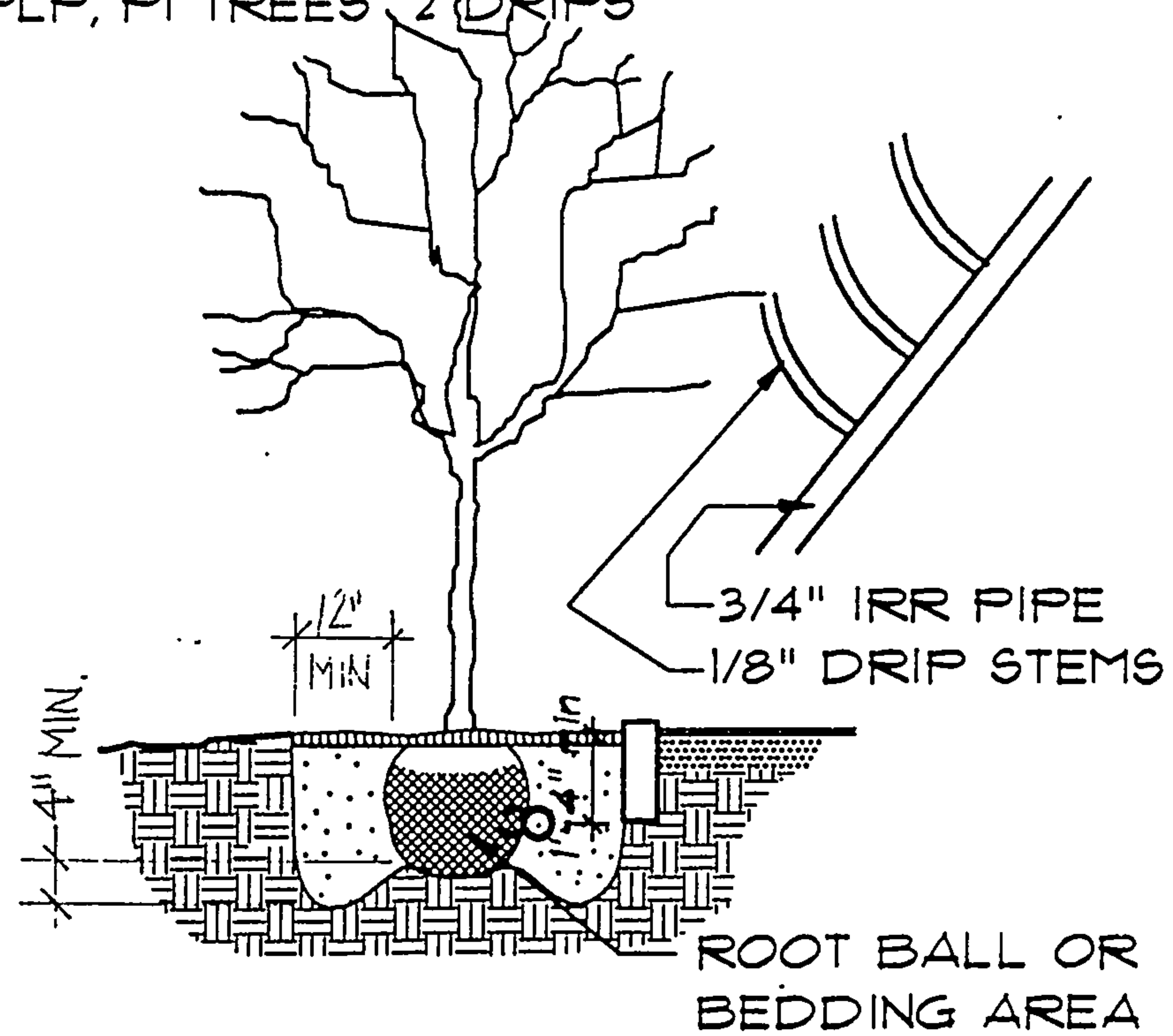
Other (Specify)	
19. R Value	
20. U=1/R=	

$$U_o = \frac{U_1A_1 + U_2A_2 + U_3A_3 + \dots + U_nA_n}{A_o}$$

$$U_o \text{ ROOF} = \frac{\text{TOTAL COL. C}}{\text{COL. A, LINE 1}}$$

0.03

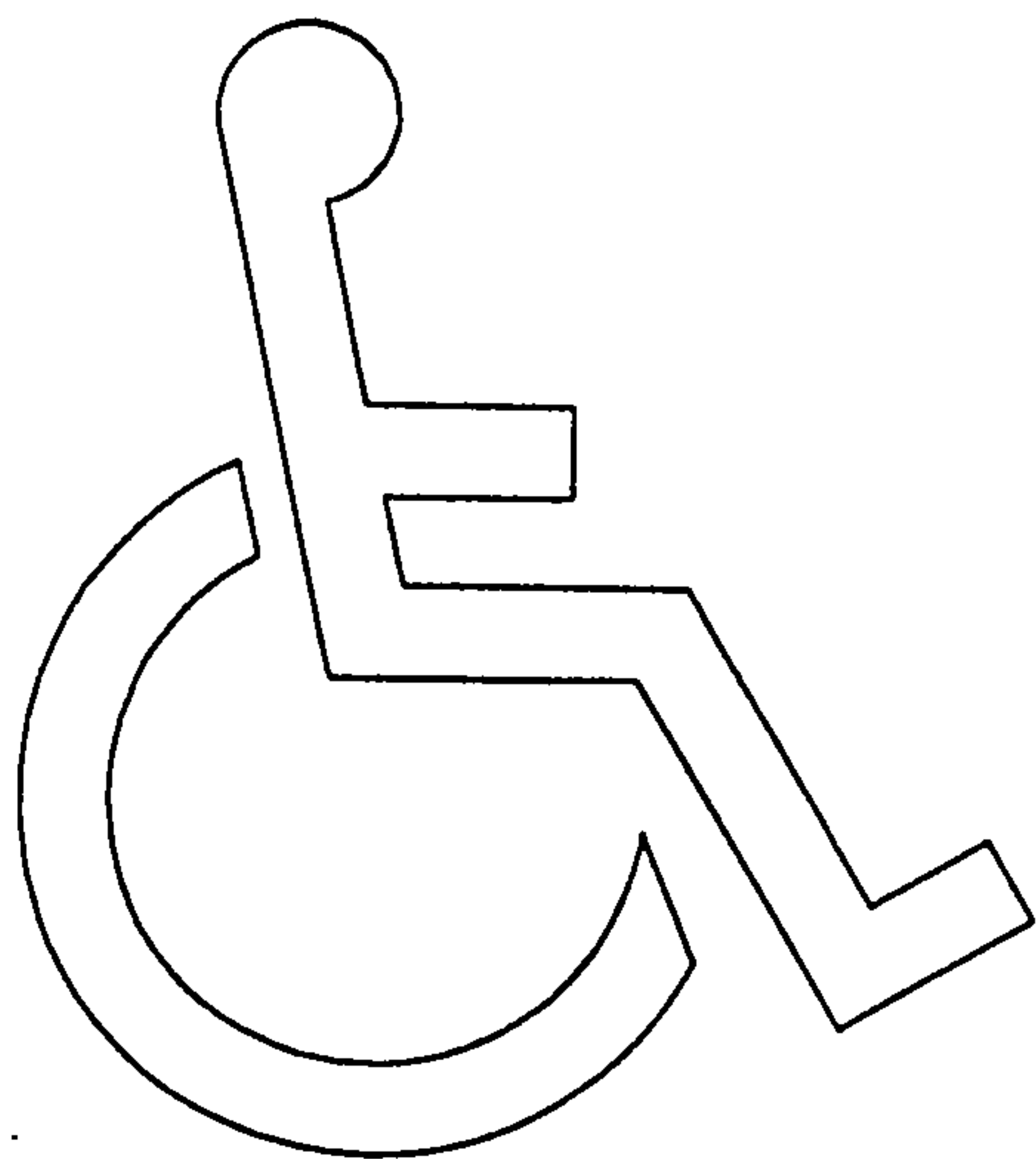
CW TREES - 3 DRIPS -
RO, PLP, PI TREES - 2 DRIPS



(4) DETAIL

1/4" = 1'-0"

PAINTED IN WHITE IN CENTER OF
HANDICAPPED PARKING STALLS



2

DETAIL

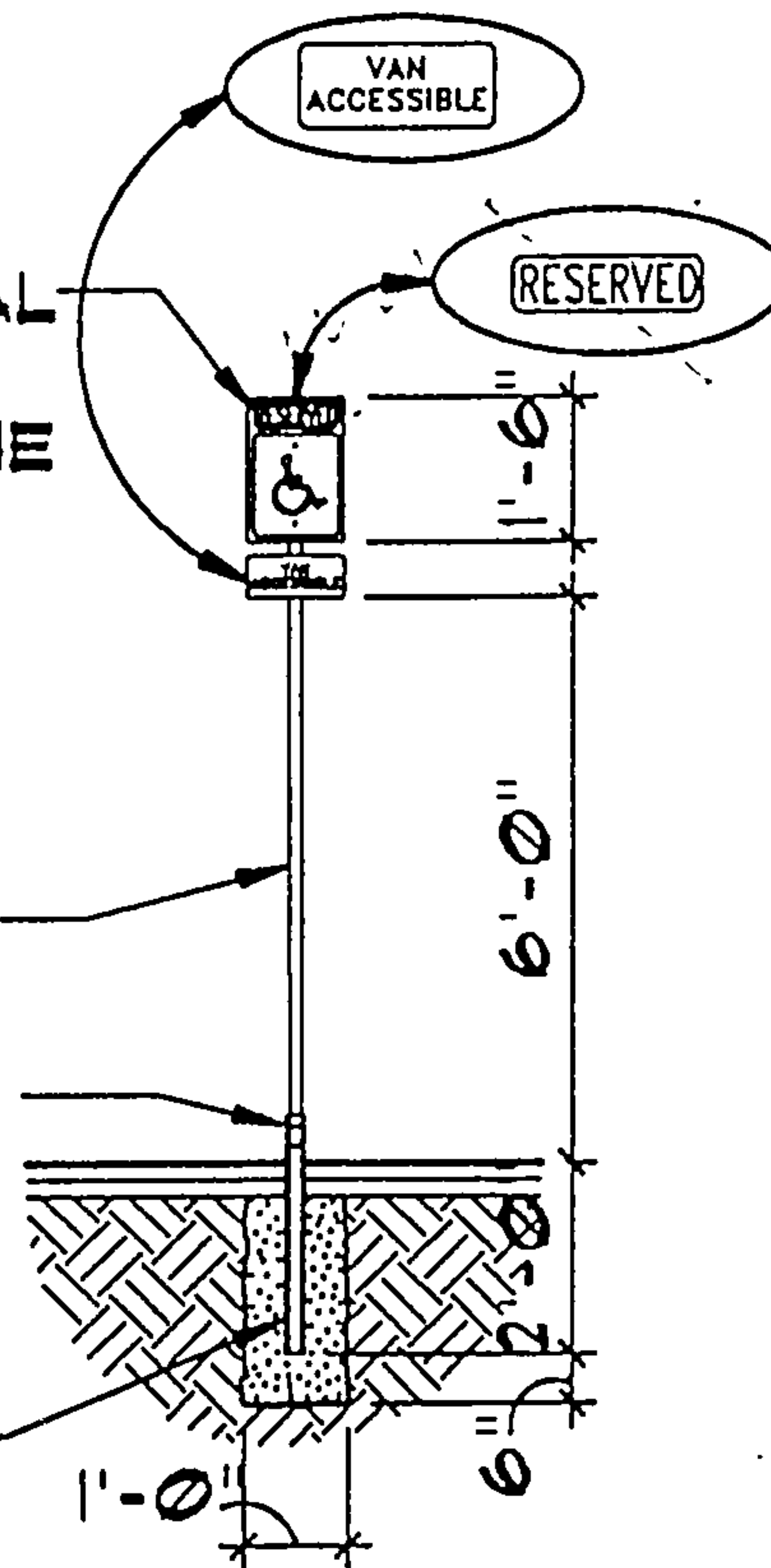
1/2" = 1'-0"

18" X 12" 20 GAGE METAL
HANDICAPPED SIGN.
WHITE SYMBOL ON BLUE
BACKGROUND.
ATTACHED BY
(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 1/2" X 1 1/2" X 12 GAGE
GALV. SQUARE POST

(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

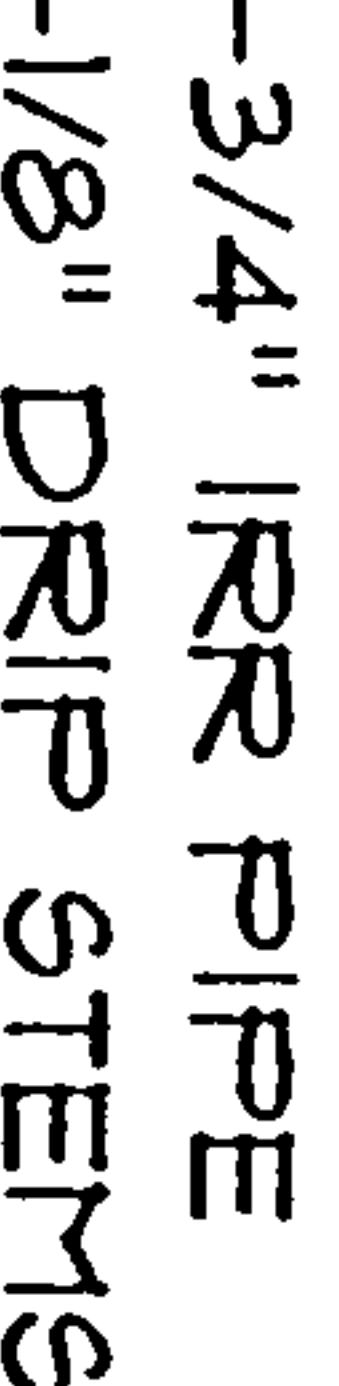
1 3/4" X 1 3/4" X 2' 6"
X 12 GAGE GALV.
SQUARE POST



⑥ DETAIL

1/4" = 1'-0"

27
□
R
L
S

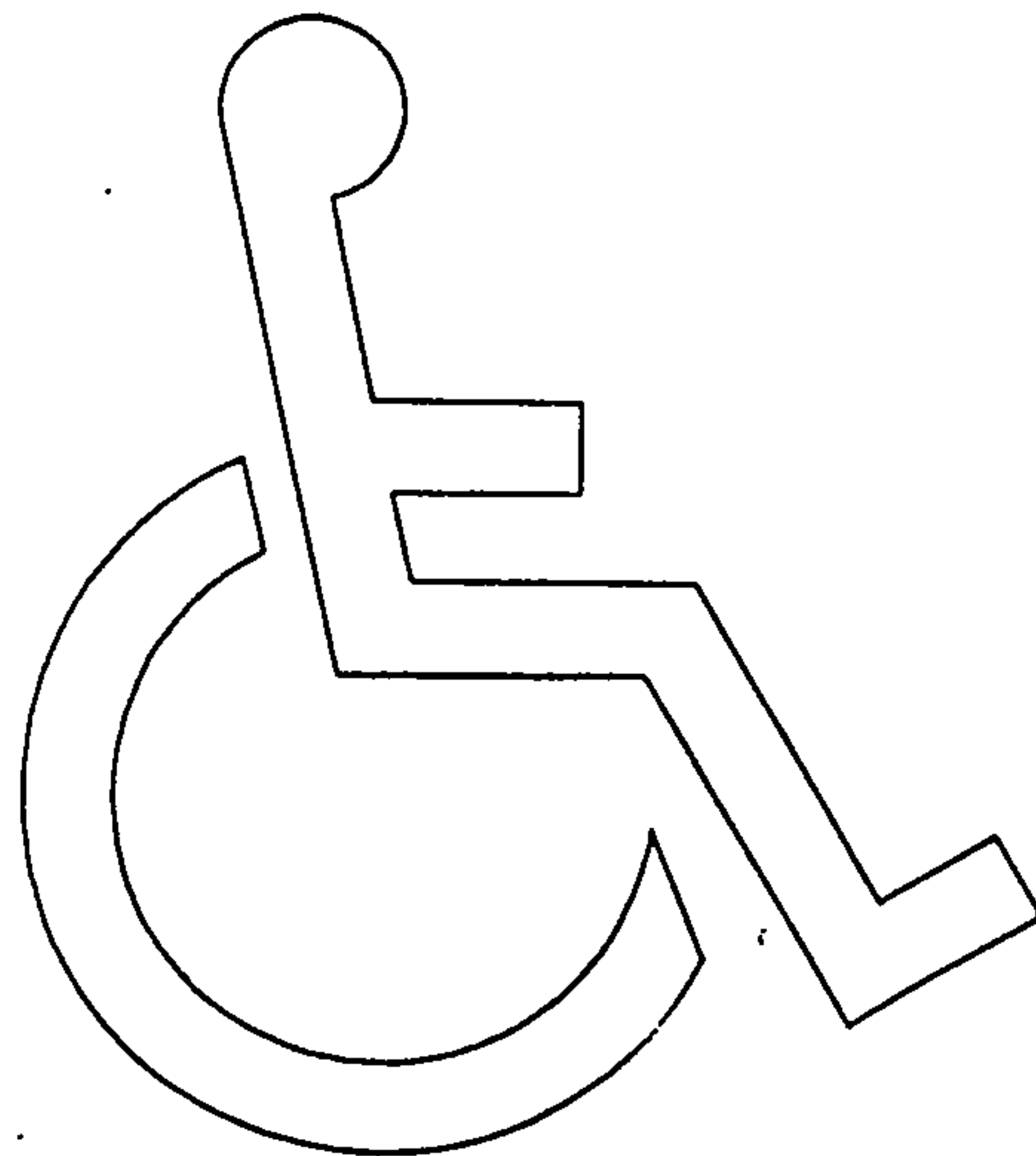


ROOT BALL OR

④

1/4" - 1" - Ø"

PAINTED IN WHITE IN CENTER OF
HANDICAPPED PARKING STALLS



② DETAIL

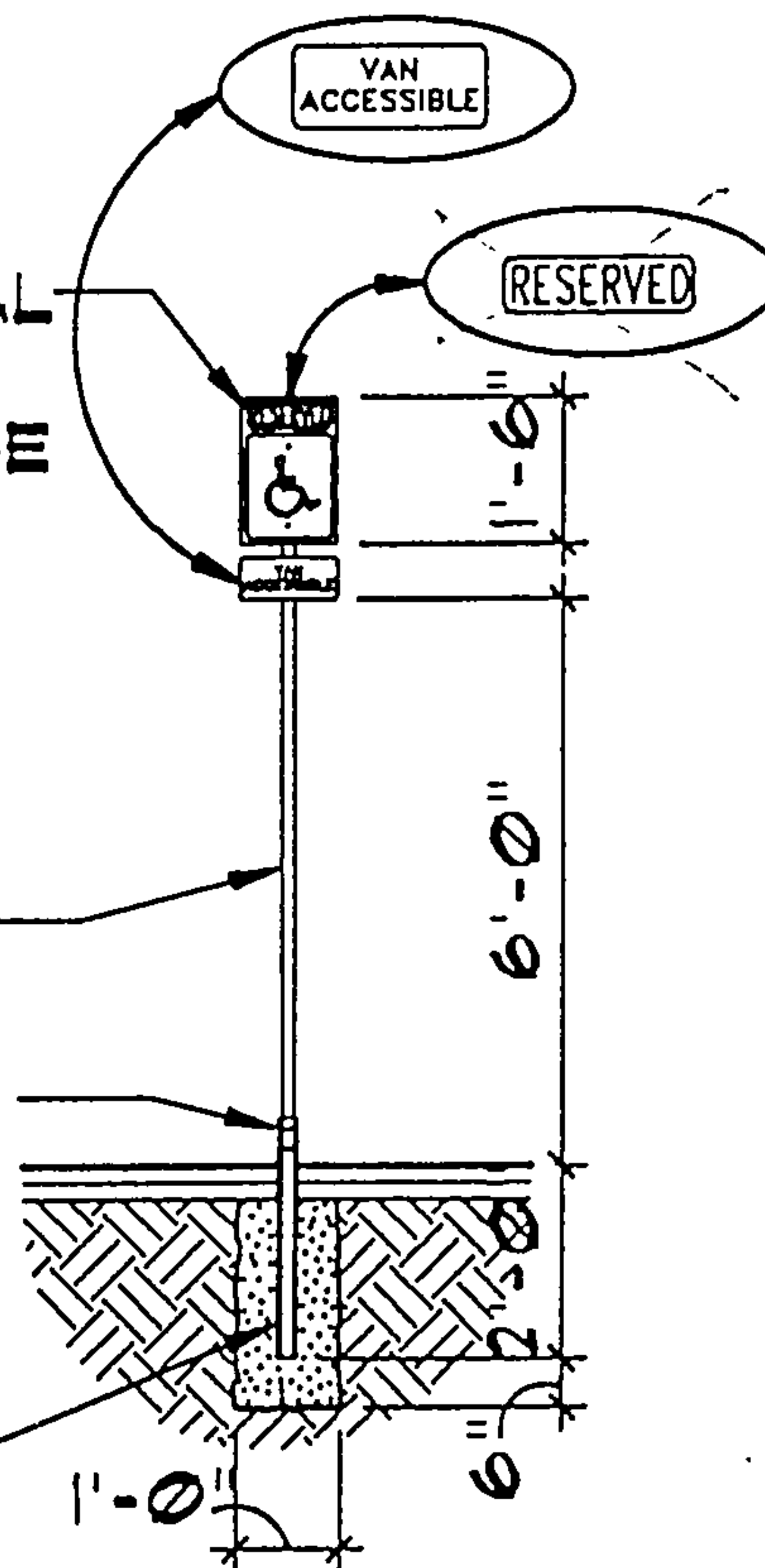
1/2" = 1'-0"

18" X 12" 20 GAGE METAL
HANDICAPPED SIGN.
WHITE SYMBOL ON BLUE
BACKGROUND.
ATTACHED BY
(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 1/2" X 1 1/2" X 12 GAGE
GALV. SQUARE POST

(2) 1/2" ϕ X 2 1/4" BOLTS
WITH WASHERS AND
NUTS

1 3/4" X 1 3/4" X 2' 6"
X 12 GAGE GALV.
SQUARE POST



⑥ DETAIL

1/4" = 1'-0"

DRAINAGE INFORMATION SHEET

PROJECT TITLE: TRIPLEX, 520 CARDENAS, S.E. ZONE ATLAS/ DRNG. FILE #: L-18-D 59

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOT 6,BLOCK 2, BARON BURG HEIGHTS ADDITION

CITY ADDRESS: 520 CARDENAS DR.,S.E., ALBUQUERQUE, NM 87108

ENGINEERING FIRM: C.A. COONCE & ASSOC. CONTACT : C.A. COONCE

ADDRESS: 12324 PINERIDGE, N.E. PHONE: 296-1089

OWNER: BOBBY MAPLES,/ SAL DE LUCA CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS,S.E., 87108 PHONE: 232-2895

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: HARRIS SURVEYING, INC. CONTACT: TONY HARRIS

ADDRESS: 2412 MONROE, N.E., ABO, NM 87110 PHONE: (505) 898-8056

CONTRACTOR: BOBBY MAPLES CONTACT: BOBBY MAPLES

ADDRESS: 524 CARDENAS, S.E., ALBUQUERQUE, NM 87108 PHONE: (505) 232-2895

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

PRE-DESIGN MEETING:

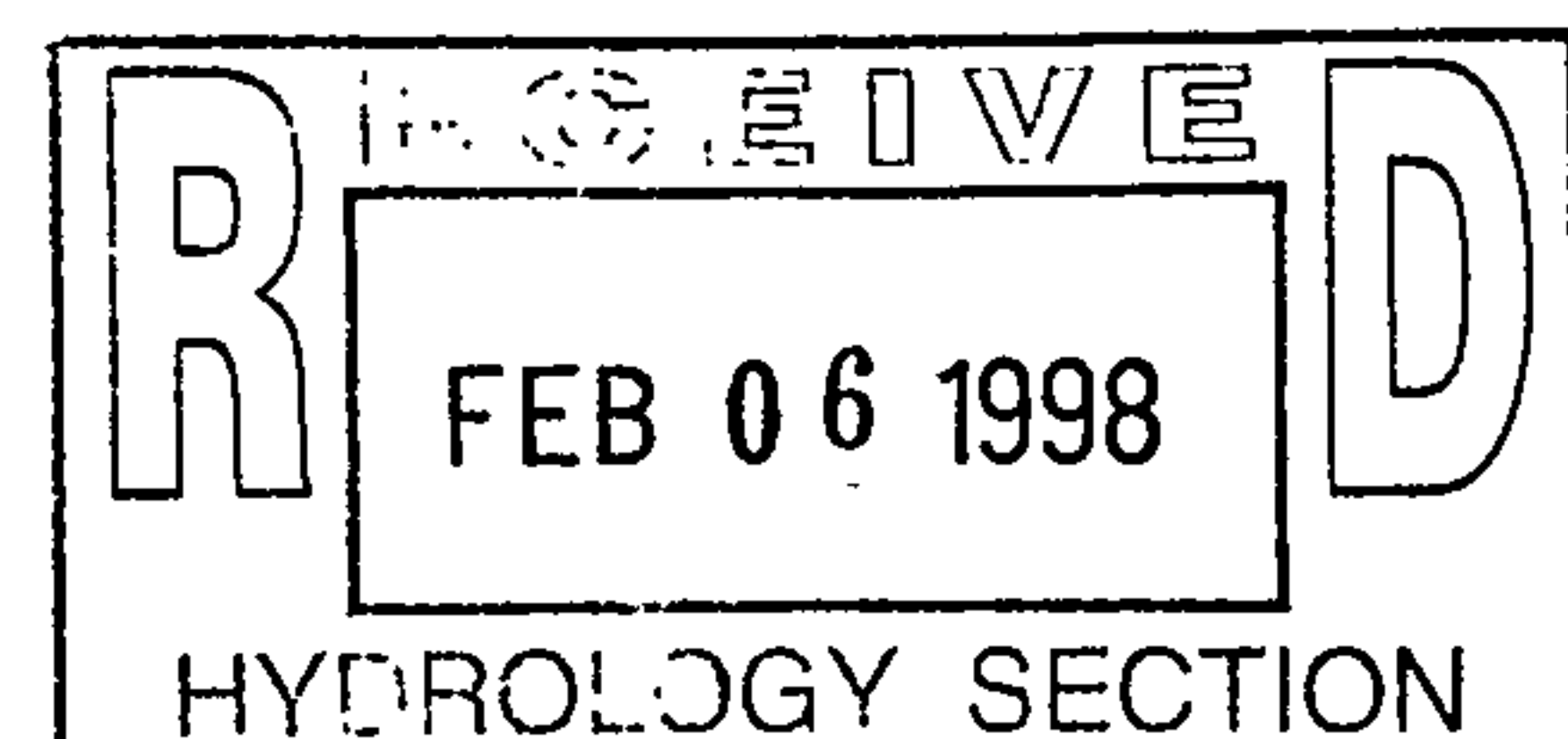
- ☐ YES
☒ NO
☐ COPY PROVIDED

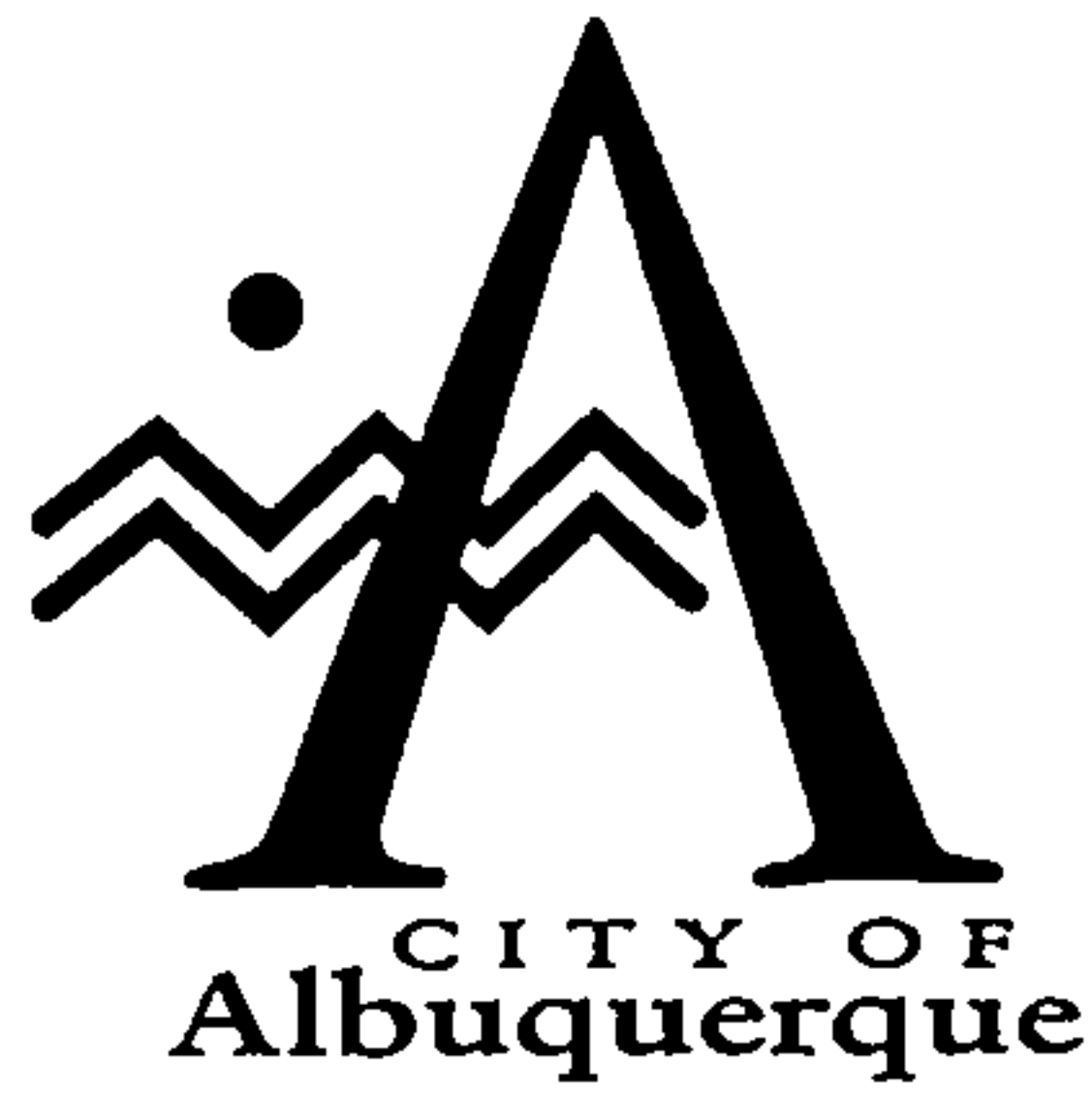
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ SUBDIVISION CERTIFICATION
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 02/06/98

BY: C.A. COONCE C.A. Coonce 2/6/98





February 25, 1998

C.A. Coonce, P.E.
C.A. Coonce & Associates
12324 Pineridge NE
Albuquerque, NM 87112

**RE: TRIPLEX @ 520 CARDENAS SE (L18-D59). GRADING AND DRAINAGE
SUBMITTAL FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP
DATED FEBRUARY 6, 1998.**

Dear Mr. Coonce:

Based on the information provided on your February 6, 1998 submittal, the above referenced project is approved for Building Permit.

Prior to Certificate of Occupancy approval, and Engineer's Certification will be 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: Andrew Garcia
File

Good for You, Albuquerque!

