

NOTE:
WHENEVER INDIANA DEPARTMENT OF HIGHWAYS
APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS
IT SHALL BE INTERPRETED AS INDIANA DEPARTMENT
OF TRANSPORTATION.

NOTE:
WHENEVER IR-1-ID-70-1(010)
APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS
IT SHALL BE INTERPRETED AS
MAIR-IR-70-1(074)

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
CLEAR CREEK WELCOME CENTER
I-PROJECT NO.-70-1(050) R/W
MAIR-IR-PROJECT NO.-70-1(074) ^{PE.} CONST.

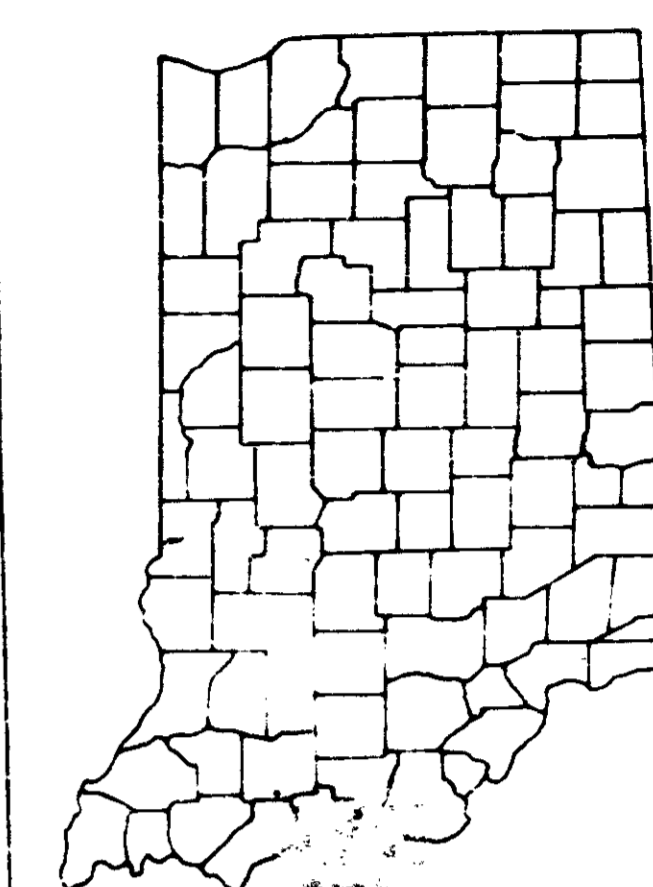
THE EASTBOUND WELCOME CENTER IS LOCATED APPROXIMATELY
9,000 FEET EAST OF THE INDIANA-ILLINOIS STATE LINE
IN SECTION 34, T12N. R10W, SUGAR CREEK TWP, VIGO COUNTY.

GROSS LENGTH:- 0.645 MI
NET LENGTH:- 0.645 MI
SCALES:-

PLAN { LONG:- 1" = 100' } PROFILE { HORIZ:- 1" = 100' } MAX. GRADE
{ TRANS:- 1" = 100' } { VERT:- 1" = 100' }

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-ID-70-1(010)	1991	1	171

DESIGN DATA	
ADT (1987)	18700 VPD
ADT (2007) PROJECTED	27010 VPD
DHV (2007)	2188 V.P.H.
DIRECTIONAL DISTRIBUTION	60 %
TRUCKS DHV	656 ADT 30 %
DESIGN SPEED	70 M.P.H.
ACCESS CONTROL	LIMITED

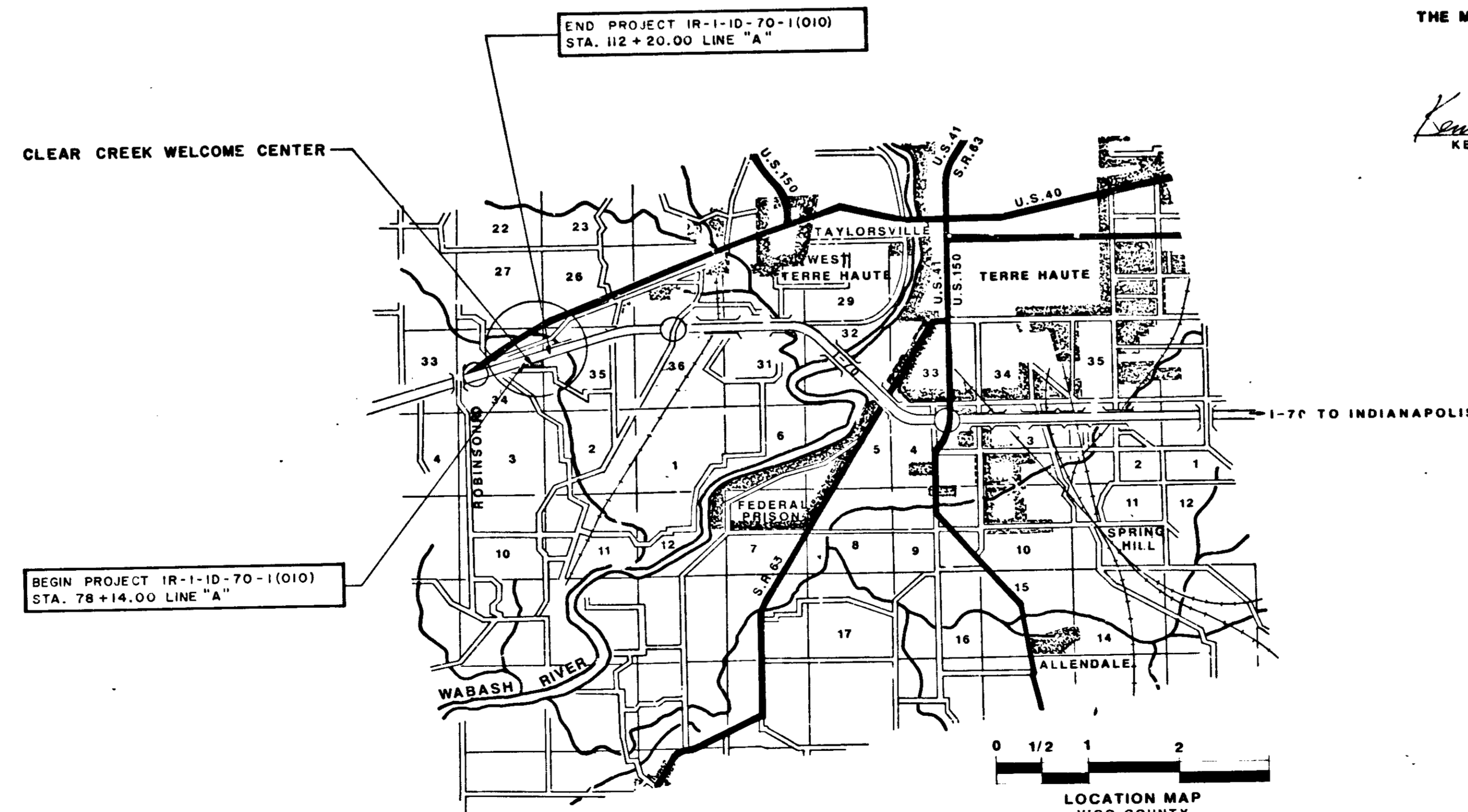
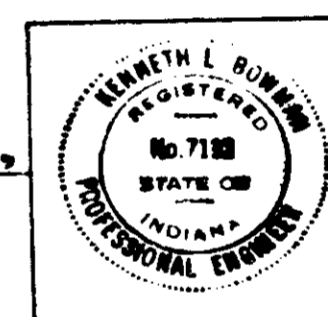


LOCATION OF SECTION INDICATED THUS →

- LEGEND
- (A) BARRICADE TYPE "III"
 - (B) BARRICADE TYPE "IX & X"
 - (C) CONSTRUCTION SIGN TYPE "A"
 - (D) CONSTRUCTION SIGN TYPE "B"

Prepared and Recommended By
THE MCGUIRE & SHOOK CORPORATION
Indianapolis, Indiana

Kenneth L. Bowman 8-20-90
KENNETH L. BOWMAN



Stephen R. Nezarich
ROAD ENGINEER
RECOMMENDED FOR APPROVAL

David M. Pluckelbaum
DESIGN CONSULTANT SERVICES MANAGER
RECOMMENDED FOR APPROVAL 8-7-90

George Z. Hanks
CHIEF DIVISION OF DESIGN
APPROVED 8-8-90

FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED

DIVISION ADMINISTRATOR DATE

ROAD FILE:-

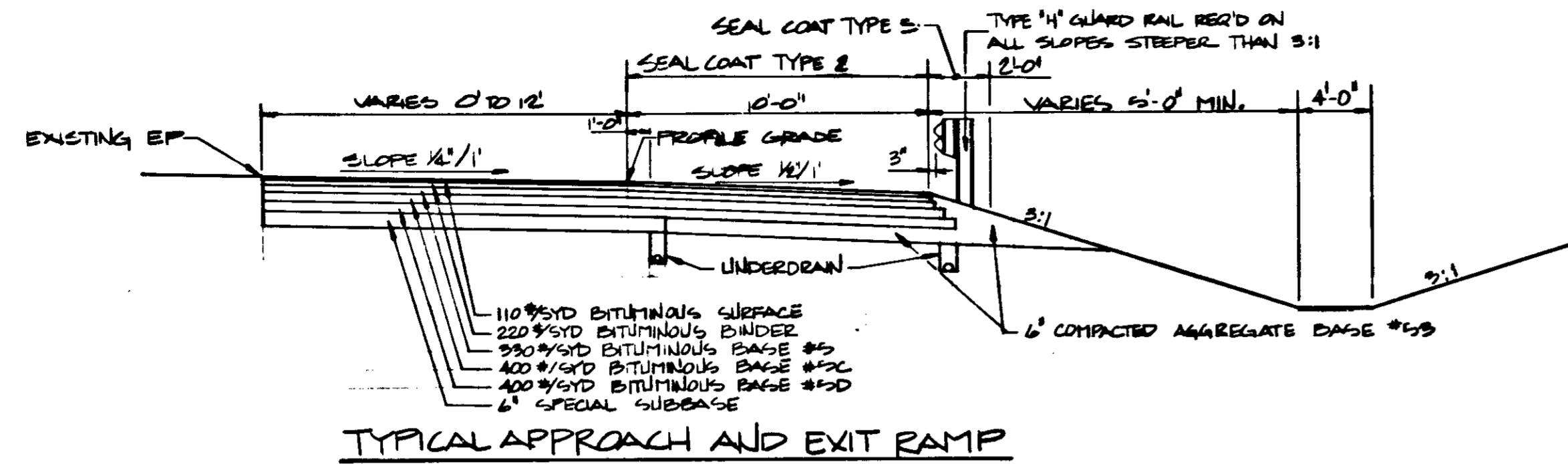
PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
IR-1-ID-70-1(010)	"A"	1	171	

INDIANA DEPARTMENT OF HIGHWAYS
STANDARD SPECIFICATIONS DATED 1988
TO BE USED WITH THESE PLANS
Des. 13700

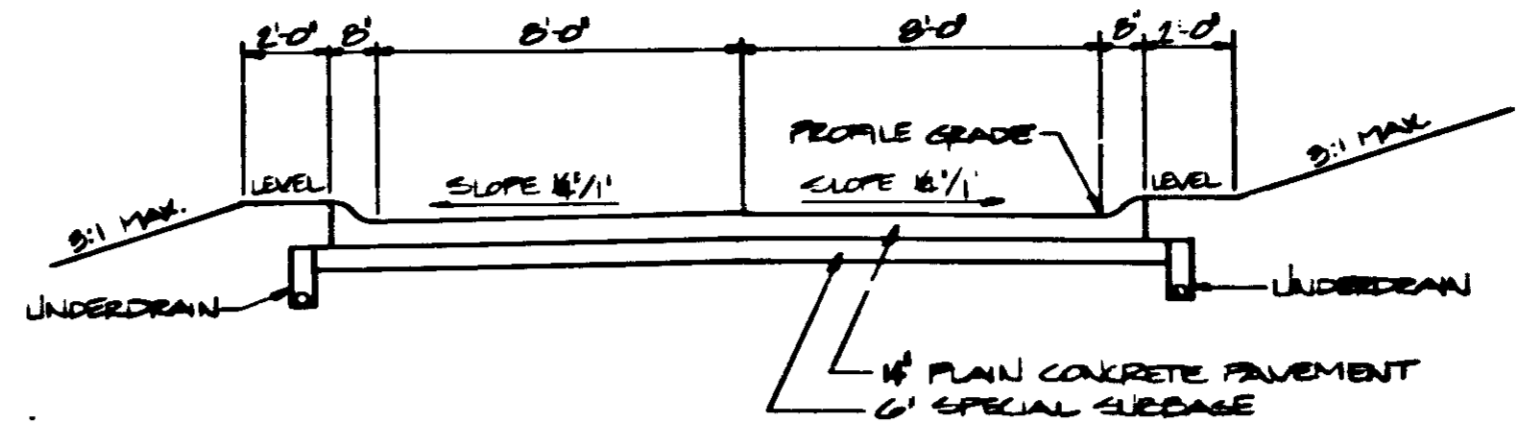
JULY 1981

R 19057 PART 1 OF 2

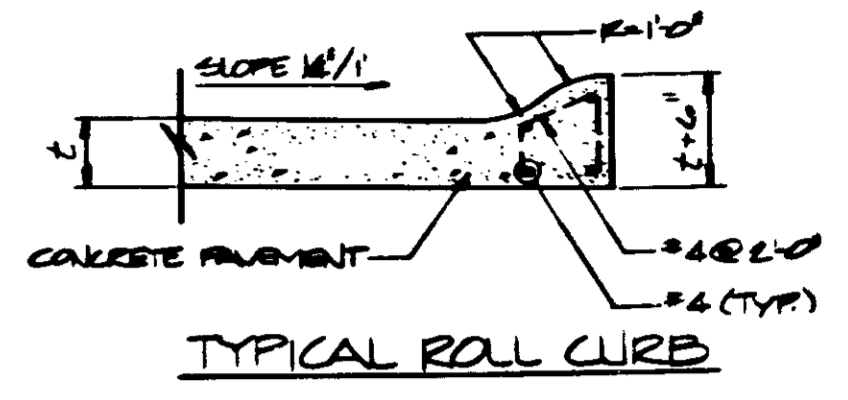
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	287-300 70-1-600	1991	3	171



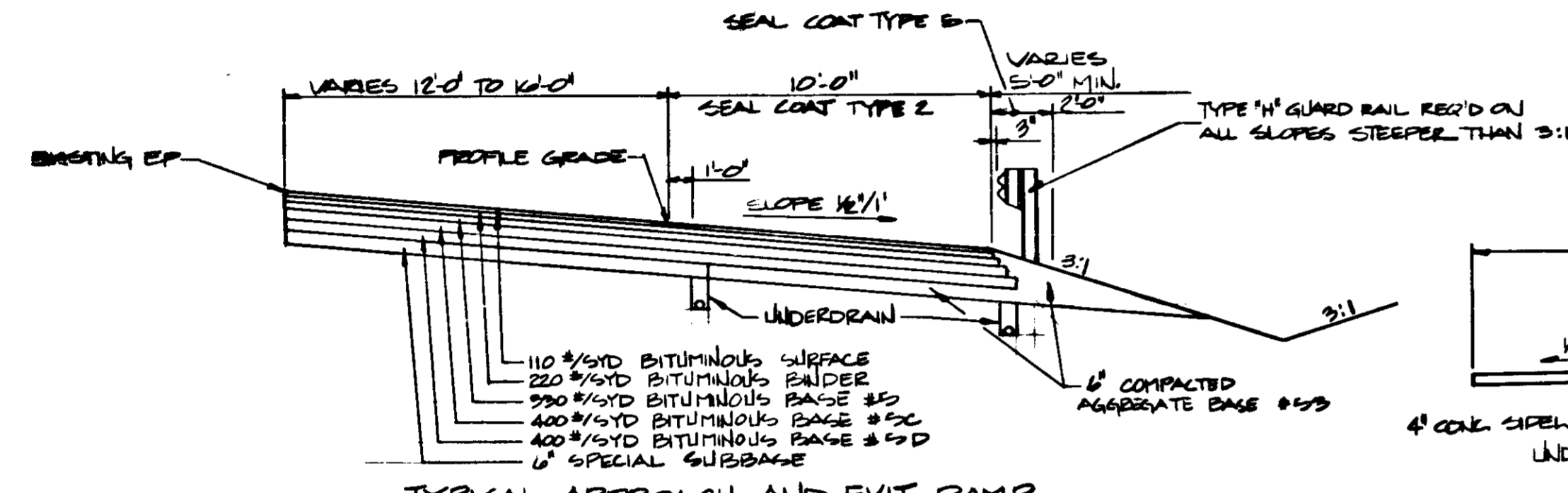
TYPICAL APPROACH AND EXIT RAMP



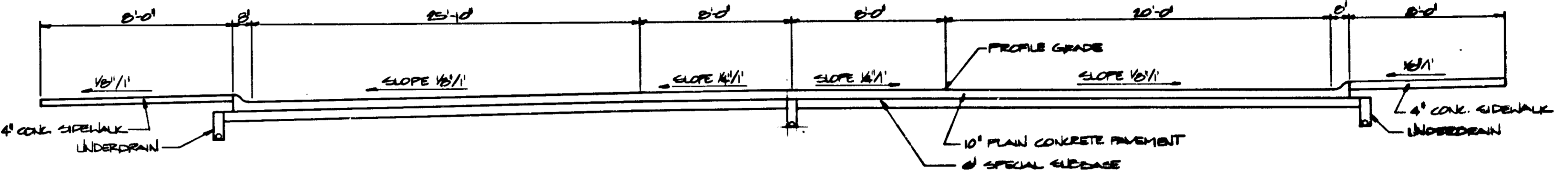
TYPICAL ROADWAY (CURBED)



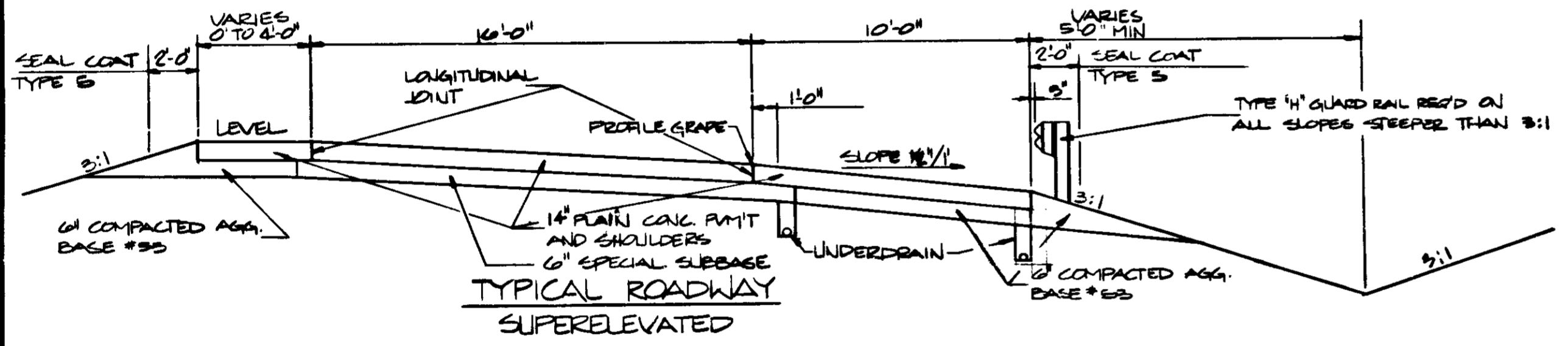
TYPICAL ROLL CURB



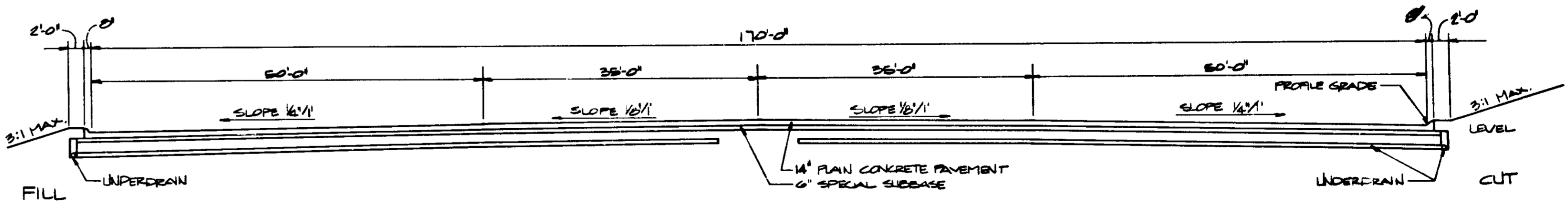
TYPICAL APPROACH AND EXIT RAMP SUPERELEVATED



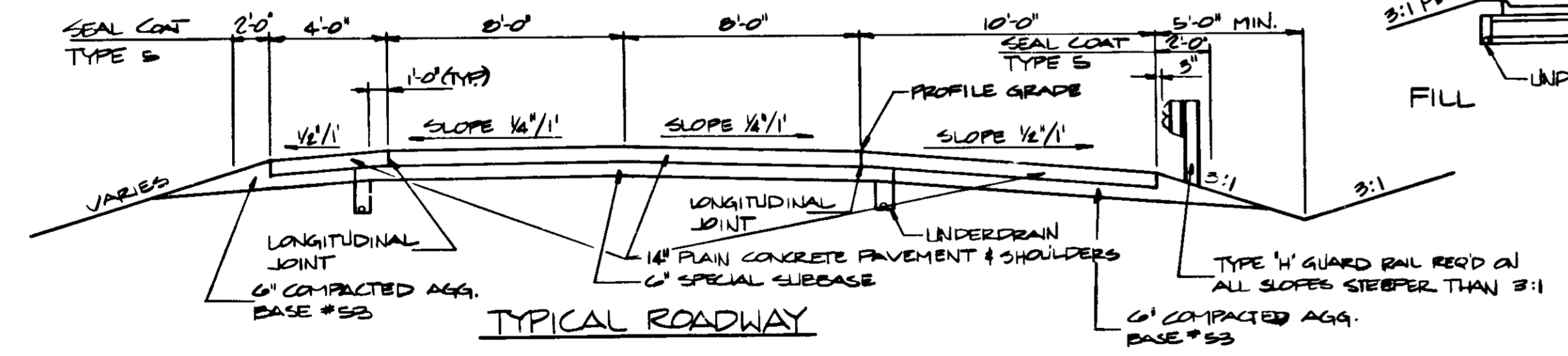
TYPICAL CAR PARKING



TYPICAL ROADWAY SUPERELEVATED

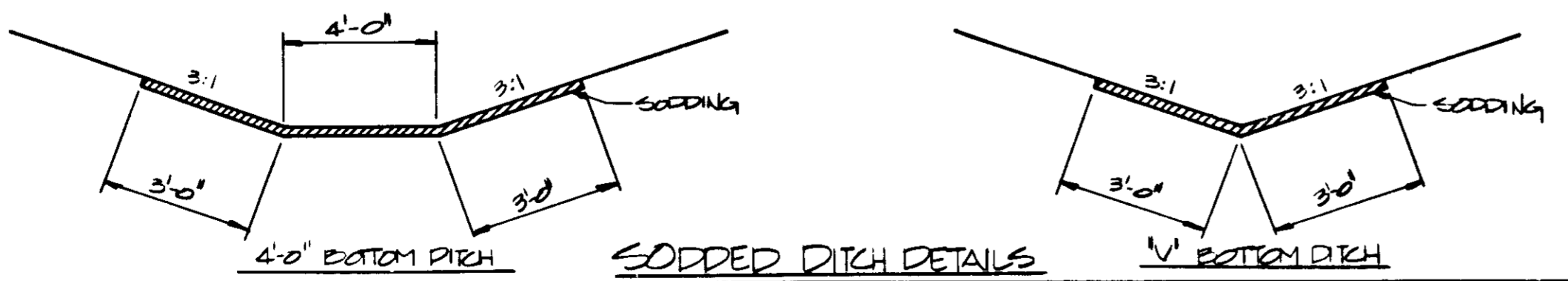


TYPICAL TRUCK PARKING



TYPICAL ROADWAY

- GENERAL NOTES:
- SEDIMENT TRAP TO BE INSTALLED DOWNSTREAM OF CONSTRUCTION AREA BEFORE COMMENCING ANY CONSTRUCTION ACTIVITIES WHICH CAUSE SILTATION OF THE DITCH.
 - AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES WHICH CAUSE SILTATION, ALL SEDIMENTS WHICH COLLECTED ON THE UPSTREAM SIDE OF THE SEDIMENT TRAP SHALL BE REMOVED & DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS.
 - MATERIALS FOR AND CONSTRUCTION OF SEDIMENT TRAP TO BE FOUND FOR AS "PREVENTION RITRAMP".
 - SEED MIXTURE W/ SHALL BE APPLIED TO ALL SLOPES 3:1 OR STEEPER OR GRANULAR SLOPES (CUT OR FILL) OR SLOPES HIGHLY SUSCEPTIBLE TO EROSION AS DIRECTED BY THE ENGINEER.
 - SEE PAVEMENT PLAN FOR JOINT TYPES AND LOCATIONS.



INDIANA DEPARTMENT OF HIGHWAYS TYPICAL CROSS SECTIONS

SCALE: NOS

R-19057



28

27

26

28 27
33 34

27 26
34 35

26 25
35 36

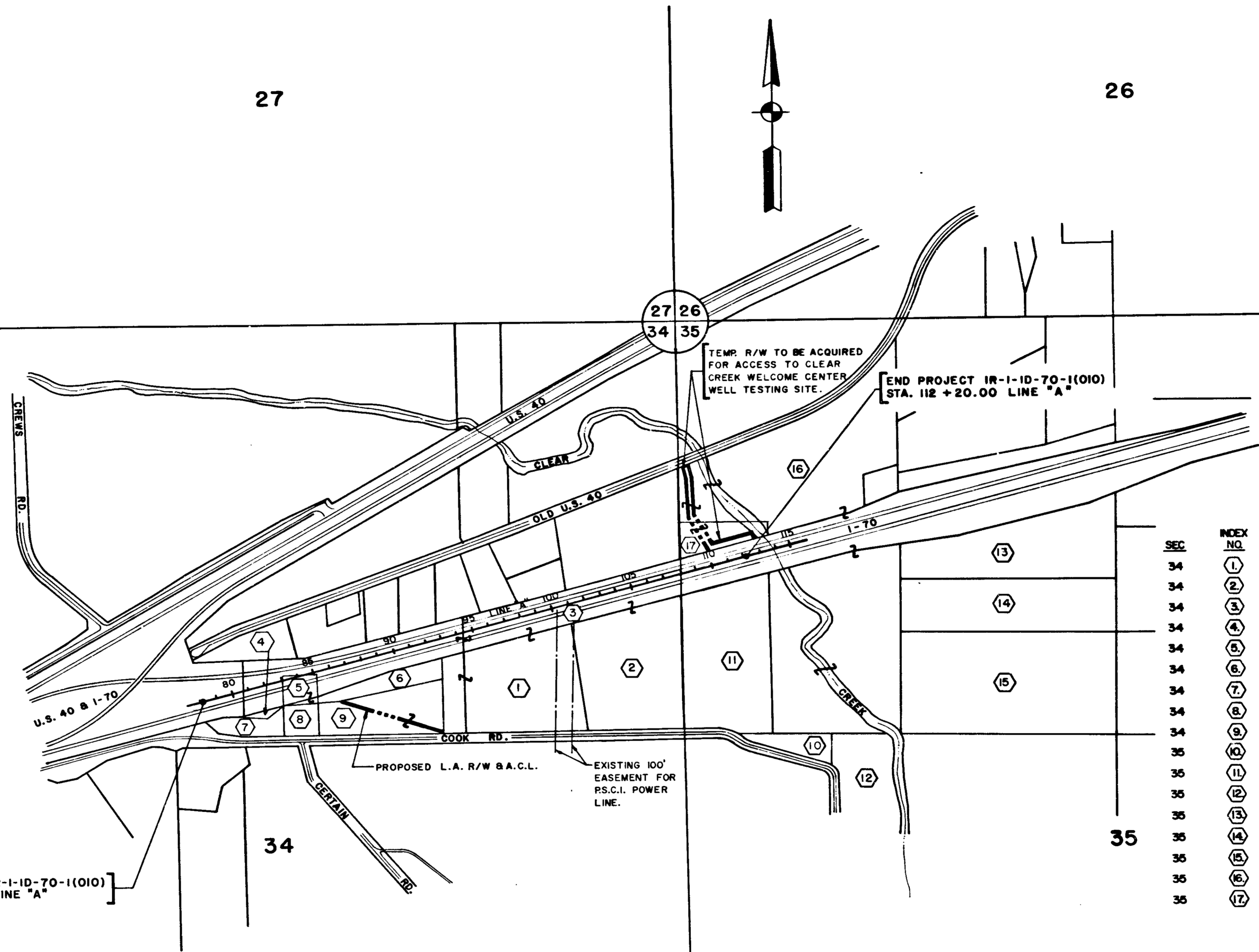
33

34

35

33 34
4 3

34 35
3 2



TEMP. R/W TO BE ACQUIRED FOR ACCESS TO CLEAR CREEK WELCOME CENTER WELL TESTING SITE.

END PROJECT IR-1-ID-70-1(010) STA. 112+20.00 LINE "A"

BEGIN PROJECT IR-1-ID-70-1(010) STA. 78+14.00 LINE "A"

SEC	INDEX NO.	OWNER	ACRES
34	(1)	STATE OF INDIANA	16.41 AC
34	(2)	STATE OF INDIANA	14.68 AC
34	(3)	STATE OF INDIANA	6.18 AC
34	(4)	STATE OF INDIANA	.14 AC
34	(5)	STATE OF INDIANA	.86 AC
34	(6)	STATE OF INDIANA	1.74 AC
34	(7)	ROBERT D. & TONI A. GUNDERSON	.86 AC
34	(8)	ROBERT D. & TONI A. GUNDERSON	1.14 AC
34	(9)	DAVID L. & JASON L. JOHNSON	5.19 AC
35	(10)	MILDRED B. & JAMES WILLIAMS	1.60 AC
35	(11)	VERNON J. & BETTY E. COX	14.86 AC
35	(12)	MILDRED B. & JAMES WILLIAMS	10.00 AC
35	(13)	ROBERT F. & LOUISE McFALL PROX	24.50 AC
35	(14)	ROBERT F. & LOUISE McFALL PROX	10.00 AC
35	(15)	ROBERT F. & LOUISE McFALL PROX	20.00 AC
35	(16)	CHARLES DONHAM	41.45 AC
35	(17)	ROBERT H. BARTON	1.35 AC

PLAT NO. 1

SUGAR CREEK TWP. - VIGO CO.
STATE OF INDIANA

INDIANA DEPARTMENT OF HIGHWAYS

SCALE:- 1"=400'

DATE:-

1987

SENIOR DESIGNER

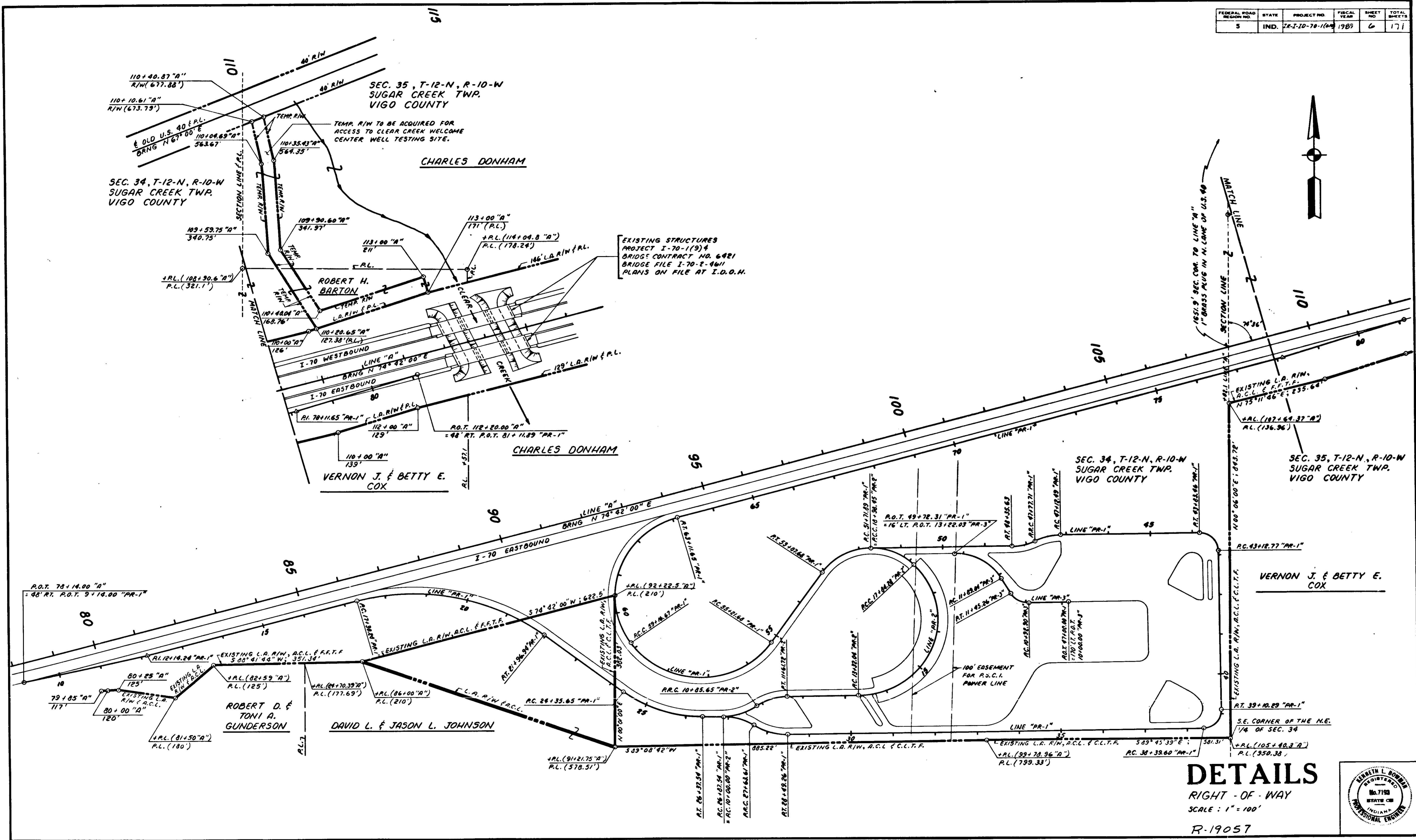
DRAWING OF SHEET: 5 OF 171
 PROJECT:- IR-1-ID-70-1(010) STATION:-
 BRIDGE CONTRACT NO. R-19057
 BRIDGE FILE:-



DESIGNED CKD
 DRAWN ECF CKD
 TRACED CKD

SF-22317

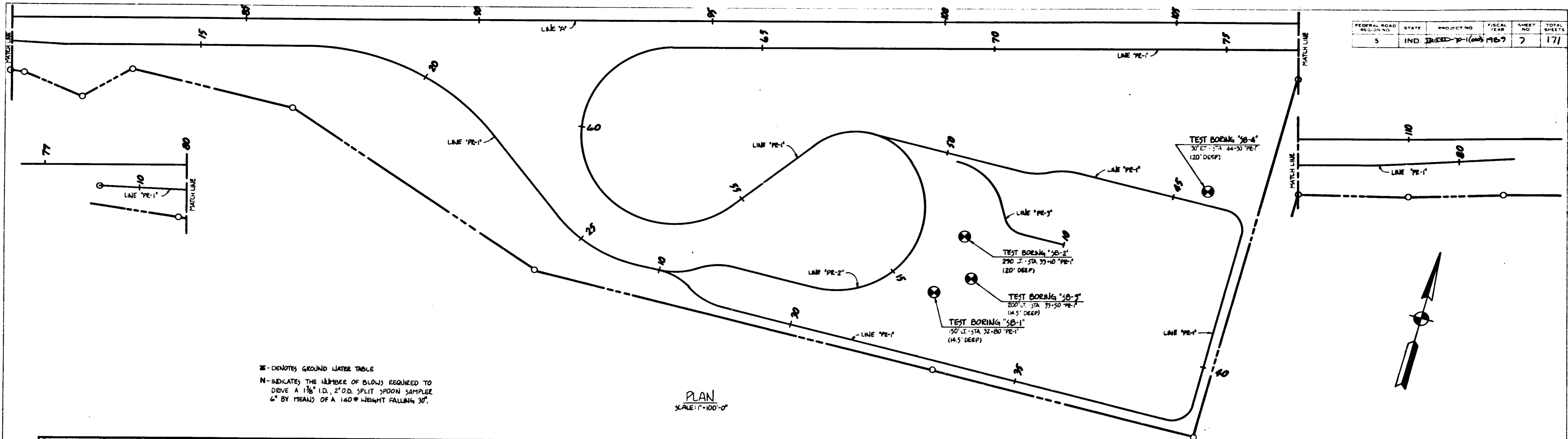
FEDERAL ROAD DESIGN NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	2R-7-20-70-1(6A)	1985	6	171



DETAILS

RIGHT-OF-WAY
SCALE: 1" = 100'
R-19057





PLAN
SUPERVISOR
NOTE BOOK
ALIGNMENT CHECKED
BY
DATE

PROFILE
SUPERVISOR
DATE

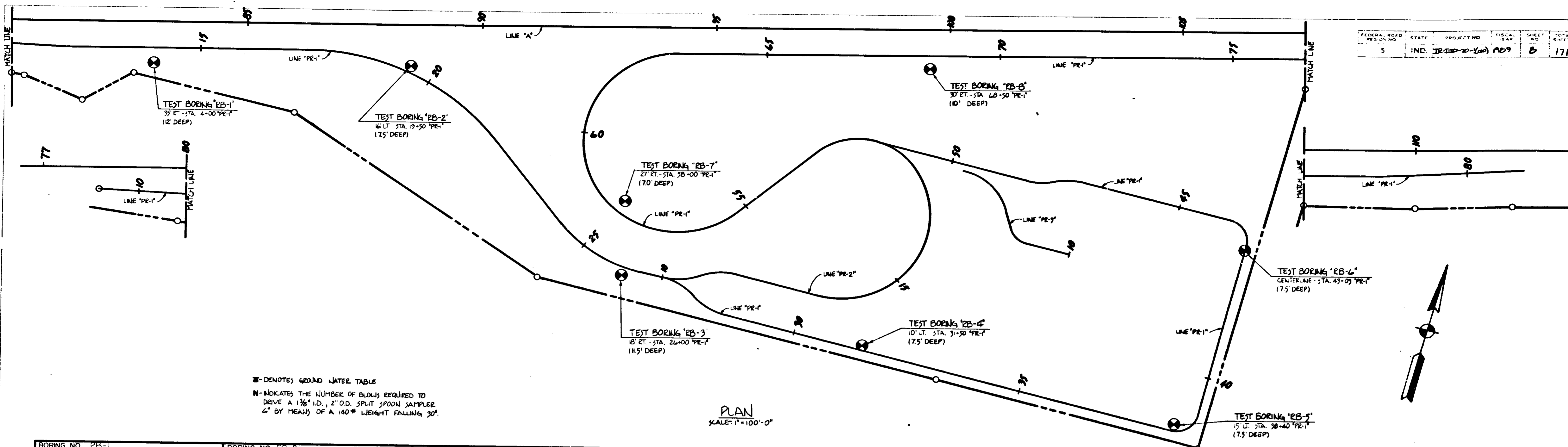
BORING NO.	STATION LINE	OFFSET	GROUND ELEV.	SAMPLE NO.	ELEV.	N	DESCRIPTION
3B-1	32+80 "PR-1"	150' LT.	519.0	1	515.0	44.9	GROUND LINE EL. 518.0
3B-1	32+80 "PR-1"	150' LT.	519.0	2	514.0	9.1	BROWN MOIST STIFF CLAY LOAM EL. 514.0
3B-1	32+80 "PR-1"	150' LT.	519.0	3	511.5	21.5	BROWN MOIST STIFF CLAY LOAM EL. 511.5
3B-1	32+80 "PR-1"	150' LT.	519.0	4	509.0	24.0	BROWN MOIST STIFF CLAY LOAM EL. 509.0
3B-1	32+80 "PR-1"	150' LT.	519.0	5	504.5	35.5	BROWN MOIST HARD CLAY LOAM EL. 504.5 BROWN DRY HARD SILTY CLAY LOAM WITH GRAVEL EL. 504.5 END OF BORING - DEPTH = 14.5 FT.
3B-2	33+10 "PR-1"	250' LT.	518.0	1	515.5	5.7	BROWN MOIST VERY STIFF TO STIFF CLAY LOAM EL. 515.5
3B-2	33+10 "PR-1"	250' LT.	518.0	2	513.0	10.4	BROWN MOIST VERY STIFF TO STIFF CLAY LOAM EL. 513.0
3B-2	33+10 "PR-1"	250' LT.	518.0	3	510.5	17.2	BROWN MOIST STIFF CLAY LOAM EL. 510.5
3B-2	33+10 "PR-1"	250' LT.	518.0	4	508.0	14.3	BROWN MOIST HARD CLAY LOAM EL. 508.0
3B-2	33+10 "PR-1"	250' LT.	518.0	5	503.0	18.3	GRAY MOIST HARD CLAY LOAM EL. 503.0
3B-3	33+50 "PR-1"	200' LT.	515.0	1	512.5	3.4	BROWN MOIST STIFF CLAY LOAM EL. 512.5
3B-3	33+50 "PR-1"	200' LT.	515.0	2	510.0	5.5	BROWN MOIST STIFF CLAY LOAM EL. 510.0
3B-3	33+50 "PR-1"	200' LT.	515.0	3	507.5	21.2	BROWN MOIST HARD SATY CLAY LOAM EL. 507.5
3B-3	33+50 "PR-1"	200' LT.	515.0	4	505.0	10.7	BROWN MOIST HARD SATY CLAY LOAM EL. 505.0
3B-3	33+50 "PR-1"	200' LT.	515.0	5	500.5	3.5	BROWN MOIST HARD SATY CLAY LOAM EL. 500.5 WITH TRACE OF GRAVEL EL. 500.5
3B-4	44+30 "PR-1"	50' LT.	526.0	1	503.5	4.4	BROWN MOIST STIFF CLAY LOAM EL. 503.5
3B-4	44+30 "PR-1"	50' LT.	526.0	2	501.0	2.4	BROWN AND GRAY MOIST HARD SATY CLAY LOAM EL. 501.0
3B-4	44+30 "PR-1"	50' LT.	526.0	3	498.5	14.7	BROWN AND GRAY MOIST HARD SATY CLAY LOAM EL. 498.5
3B-4	44+30 "PR-1"	50' LT.	526.0	4	496.0	17.2	BROWN AND GRAY MOIST HARD SATY CLAY LOAM EL. 496.0
3B-4	44+30 "PR-1"	50' LT.	526.0	5	491.0	50.3	BROWN MOIST HARD CLAY LOAM EL. 491.0
3B-4	44+30 "PR-1"	50' LT.	526.0	6	484.0	57.2	BROWN MOIST HARD CLAY LOAM EL. 484.0 END OF BORING - DEPTH = 20.0 FT.

SOIL BORINGS
DATE: _____

SCALES: AS NOTED

PROJECT NO. IR-1-ID-70-1(101)
CONTRACT NO. R-19057

KENNETH L. BOWMAN
REGISTERED
No. 7192
STATE OF
INDIANA
PROFESSIONAL ENGINEER



⊖ DENOTES GROUND WATER TABLE
 N INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D., 2" O.D. SPLIT SPOON SAMPLER 2" BY MEAN OF A 140# WEIGHT FALLING 30".

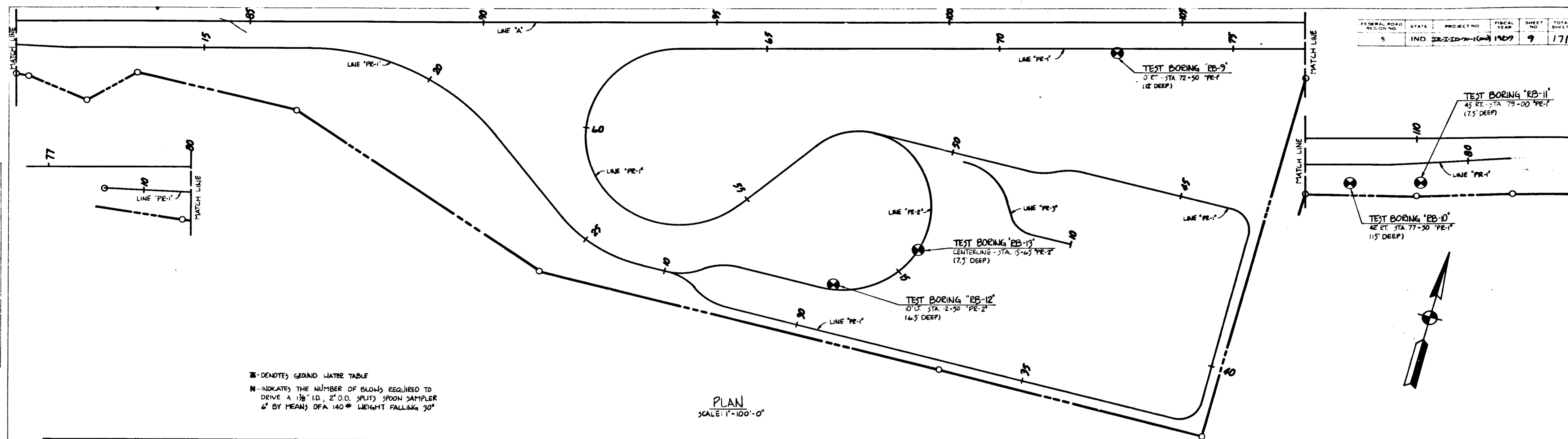
BORING NO.	STATION LINE	OFFSET	GROUND ELEV.	DEPTH	DESCRIPTION
BORING NO. RB-1	STATION LINE 14+00 PR-1	OFFSET 35 FT.	GROUND ELEV. 535.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	5325	3.4.7	BROWN MOIST MEDIUM STIFF TO STIFF SILTY LOAM EL. 527.5		
2	5300	3.4.6	BROWN MOIST STIFF TO MEDIUM STIFF SANDY CLAY LOAM EL. 525.0		
3	5275	3.5.6	BROWN MOIST VERY STIFF CLAY EL. 523.0		
4	5250	4.5.5	END OF BORING - DEPTH = 12.0 FT.		
5	5230	4.0.17			
BORING NO. RB-2	STATION LINE 19+50 PR-1	OFFSET 16 FT.	GROUND ELEV. 507.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	504.5	2.3.4	BROWN MOIST MEDIUM STIFF SILTY CLAY LOAM EL. 502.0		
2	502.0	2.3.5	BROWN MOIST MEDIUM DENSE SAND EL. 499.5		
3	499.5	4.7.7	END OF BORING - DEPTH = 7.5 FT.		
BORING NO. RB-3	STATION LINE 24+00 PR-1	OFFSET 18 FT.	GROUND ELEV. 520.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	517.5	3.3.5	BROWN MOIST MEDIUM STIFF TO STIFF SILTY CLAY LOAM EL. 512.5		
2	515.0	5.4.7	BROWN MOIST VERY STIFF CLAY EL. 510.0		
3	512.5	2.3.5	BROWN MOIST HARD SANDY CLAY EL. 508.5		
4	510.0	12.4.3	END OF BORING - DEPTH = 11.5 FT.		
5	508.5	14.0.23			
BORING NO. RB-4	STATION LINE 31+50 PR-1	OFFSET 21 FT.	GROUND ELEV. 520.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	517.5	4.4.11	BROWN MOIST MEDIUM STIFF SANDY CLAY EL. 512.5		
2	515.0	4.22.22	BROWN MOIST VERY STIFF TO HARD SANDY CLAY EL. 512.5		
3	512.5	20.2.23	END OF BORING - DEPTH = 7.5 FT.		
BORING NO. RB-5	STATION LINE 38+40 PR-1	OFFSET 27 FT.	GROUND ELEV. 504.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	501.5	3.5.6	BROWN MOIST MEDIUM STIFF SANDY CLAY EL. 499.0		
2	499.0	4.4.4	BROWN MOIST MEDIUM STIFF SANDY CLAY EL. 496.5		
3	496.5	4.6.7	BROWN MOIST LOOSE TO MEDIUM DENSE SANDY LOAM EL. 492.0		
4	492.0	4.5.5	BROWN MOIST VERY STIFF CLAY LOAM EL. 489.5		
5	489.5	4.8.16	BROWN BROWN MOIST DENSE SANDY CLAY LOAM EL. 486.5		
6	486.5	4.8.16	END OF BORING - DEPTH = 7.5 FT.		
BORING NO. RB-6	STATION LINE 43+05 PR-1	OFFSET 27 FT.	GROUND ELEV. 500.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	497.5	3.4.3	BROWN AND GRAY MOIST MEDIUM STIFF CLAY LOAM EL. 492.0		
2	495.0	3.3.4	BROWN WET COARSE SAND EL. 492.0		
3	492.5	4.4.9	BROWN MOIST MEDIUM STIFF TO STIFF SILTY LOAM EL. 492.0		
4	490.0	4.9.23	BROWN MOIST VERY DENSE SAND EL. 490.0		
5	490.0	4.9.23	END OF BORING - DEPTH = 10.0 FT.		
BORING NO. RB-7	STATION LINE 58+50 PR-1	OFFSET 27 FT.	GROUND ELEV. 500.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	507.5	2.2.3	BROWN MOIST MEDIUM STIFF SANDY CLAY EL. 502.0		
2	505.0	3.7.8	BROWN AND GRAY MOIST STIFF TO VERY STIFF CLAY LOAM EL. 502.0		
3	502.0	8.10.3	END OF BORING - DEPTH = 7.0 FT.		
BORING NO. RB-8	STATION LINE 68+50 PR-1	OFFSET 30 FT.	GROUND ELEV. 500.0		
SAMPLE NO.	ELEV.	N	DESCRIPTION		
1	497.5	3.4.3	BROWN AND GRAY MOIST MEDIUM STIFF CLAY LOAM EL. 492.0		
2	495.0	3.3.4	BROWN WET COARSE SAND EL. 492.0		
3	492.5	4.4.9	BROWN MOIST MEDIUM STIFF TO STIFF SILTY LOAM EL. 492.0		
4	490.0	4.9.23	BROWN MOIST VERY DENSE SAND EL. 490.0		
5	490.0	4.9.23	END OF BORING - DEPTH = 10.0 FT.		

SOIL BORINGS DATE: _____
 SCALES: AS NOTED

RECOMMENDED FOR APPROVAL: _____
 PROJECT NO. IR-1D-70-100
 CONTRACT NO. R-19057



PLAN
 SURVEYED BY DATE
 NOTED/CHECKED BY DATE
 NO. FT. OF WAY CHECKED



□ - DENOTES GROUND WATER TABLE
 N - INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D., 2" O.D. SPLIT SPOON SAMPLER 6" BY MEANS OF A 140# WEIGHT FALLING 30"

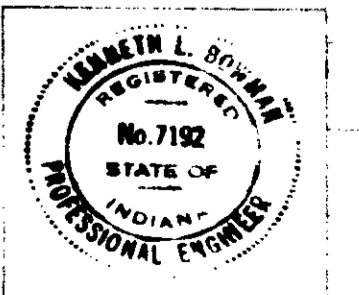
PLAN
 SCALE: 1"=100'-0"

BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET	DESCRIPTION	SAMPLE NO.	ELEV.	N	DESCRIPTION
BORING NO. PB-9	STATION, LINE 72+50, PR-1	GROUND ELEV. 492.0	OFFSET 42.8'					
BORING NO. PB-10	STATION, LINE 77+50, PR-1	GROUND ELEV. 484.0	OFFSET 42.8'					
BORING NO. PB-11	STATION, LINE 79+00, PR-1	GROUND ELEV. 474.0	OFFSET 42.8'					
BORING NO. PB-12	STATION, LINE 72+50, PR-2	GROUND ELEV. 502.0	OFFSET 9.0'					
BORING NO. PB-13	STATION, LINE 75+25, PR-2	GROUND ELEV. 515.0	OFFSET 5.0'					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					
BORING NO.	STATION, LINE	GROUND ELEV.	OFFSET					

PROFILE
 SURVEYED BY DATE
 NOTED/CHECKED BY DATE
 NO. FT. OF WAY CHECKED

530		530
520		520
510		510
500		500
490	492.0 GROUND LINE EL. 492.0	490
480	1 489.5 2.2.2 BROWN MOIST SOFT TO MEDIUM 2 487.0 3.4.4 STIFF SILTY CLAY LOAM EL. 487.0 3 484.5 6.8.9 4 482.0 11.0.22 BROWN DRY MEDIUM DENSE TO DENSE SAND EL. 482.0 5 480.0 0.5.20 END OF BORING - DEPTH=12.0 FT.	480
470	1 481.5 3.4.5 BROWN MOIST SAND (SANDY) EL. 481.5 2 479.0 3.5.7 DARK BROWN MOIST MEDIUM STIFF TO STIFF CLAY LOAM EL. 479.0 3 476.5 3.3.3 DARK GRAY MOIST MEDIUM STIFF SILTY CLAY LOAM EL. 476.5 4 474.0 2.2.1 BROWN MOIST VERY SOFT SANDY CLAY LOAM EL. 474.0 5 472.0 1.1.1 BROWN MOIST MEDIUM DENSE SANDY SAND EL. 472.0 6 469.0 2.3.4 BROWN MOIST VERY LOOSE TO LOOSE SAND EL. 469.0 END OF BORING - DEPTH=15.0 FT. GROUND WATER @ 475.5	470
460	474.0 GROUND LINE EL. 474.0 1 471.5 3.5.7 BROWN MOIST STIFF TO MEDIUM 2 469.0 4.4.5 STIFF CLAY EL. 469.0 3 471.5 2.3.3 BROWN MOIST MEDIUM STIFF SILTY CLAY EL. 471.5 END OF BORING - DEPTH=7.5 FT.	460
	502.0 GROUND LINE EL. 502.0 1 502.5 3.4.6 BROWN AND GRAY MOIST MEDIUM STIFF TO VERY STIFF SILTY CLAY LOAM EL. 502.5 2 504.0 8.11.6 BROWN AND GRAY MOIST MEDIUM STIFF TO VERY STIFF SILTY CLAY EL. 504.0 3 502.5 8.10.14 BROWN VERY MOIST MEDIUM DENSE SANDY SAND EL. 502.5 END OF BORING - DEPTH=6.5 FT.	
	515.0 GROUND LINE EL. 515.0 1 512.5 6.8.11 BROWN AND GRAY MOIST VERY STIFF TO STIFF CLAY EL. 512.5 2 510.0 5.3.9 BROWN AND GRAY MOIST VERY STIFF TO STIFF CLAY EL. 510.0 3 507.5 9.10.10 STIFF CLAY EL. 507.5 END OF BORING - DEPTH=7.5 FT.	

SOIL BORINGS
 SCALES: AS NOTED
 DATE: _____
 RECOMMENDED FOR APPROVAL: _____
 PROJECT NO. IR-1-ID-70-1(101)
 CONTRACT NO. R-19057



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	VRI-10-70-1000A	1987	10	171

CURVE DATA
LINE "PR-1"
Curve No 1 (5)
PI Sta. 19+01.60
Δ 52°44'30"
D 11°18'03"
R 507.00'
T 251.36'
L 466.70'
C 450.40'
e 0.06'

Curve No 2 (9)
PI Sta. 25+40.48
Δ 38°03'09"
D 18°50'50"
R 304.00'
T 104.85'
L 201.90'
C 198.21'
e 0.04'

Curve No 3 (12)
PI Sta. 27+26.76
Δ 34°19'03"
D 45°06'33"
R 127.00'
T 39.21'
L 76.07'
C 74.94'

Curve No 4 (18)
PI Sta. 28+07.76
Δ 34°19'03"
D 40°04'01"
R 143.00'
T 44.15'
L 85.65'
C 84.38'

Curve No 5 (17)
PI Sta. 38+84.60
Δ 90°00'00"
D 127°19'26"
R 45.00'
T 45.00'
L 70.69'
C 63.64'

Curve No 6 (20)
PI Sta. 43+12.77
Δ 90°00'00"
D 127°19'26"
R 45.00'
T 45.00'
L 70.69'
C 63.64'

Curve No 7 (23)
PI Sta. 47+45.68
Δ 26°07'45"
D 40°04'01"
R 143.00'
T 33.18'
L 65.21'
C 64.65'

Curve No 8 (25)
PI Sta. 48+07.18
Δ 26°07'45"
D 45°06'33"
R 127.00'
T 29.47'
L 57.92'
C 57.42'

Curve No 9 (28)
PI Sta. 52+45.40
Δ 54°28'25"
D 40°04'01"
R 143.00'
T 75.50'
L 135.79'
C 130.75'

Curve No 10 (31)
PI Sta. 58+15.11
Δ 109°51'32"
D 27°48'49"
R 206.00'
T 293.43'
L 394.98'
C 337.20'

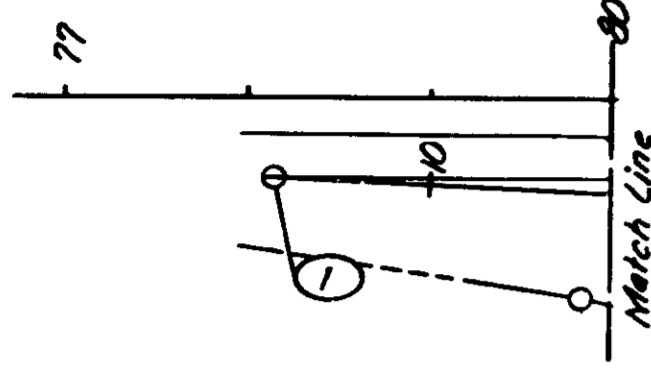
Curve No 11 (33)
PI Sta. 62+10.10
Δ 109°51'31"
D 27°48'49"
R 206.00'
T 293.43'
L 394.98'
C 337.20'

CURVE DATA
LINE "PR-2"
Curve No 12 (37)
PI Sta. 10+44.15
Δ 34°19'03"
D 40°04'01"
R 143.00'
T 44.15'
L 85.65'
C 84.38'

Curve No 13 (39)
PI Sta. 11+24.86
Δ 34°19'03"
D 45°06'33"
R 127.00'
T 39.21'
L 76.07'
C 74.94'

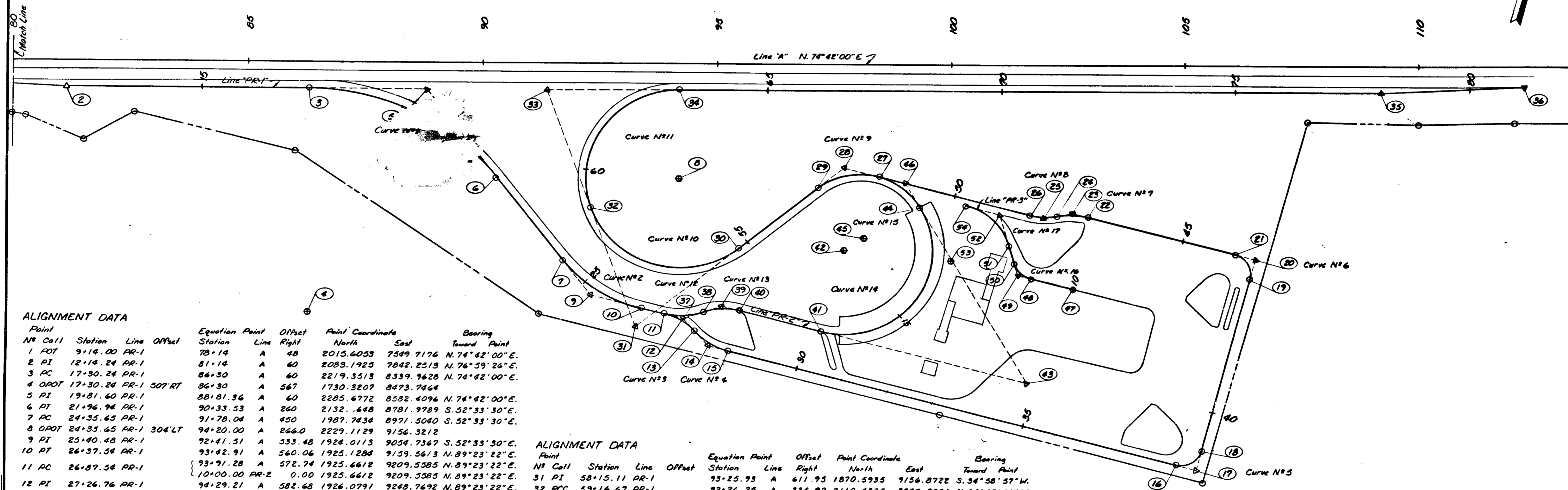
Curve No 14 (43)
PI Sta. 17+75.13
Δ 134°15'26"
D 29°41'13"
R 193.00'
T 457.53'
L 452.26'
C 355.62'

Curve No 15 (44)
PI Sta. 18+30.17
Δ 45°44'34"
D 40°04'01"
R 143.00'
T 60.32'
L 114.17'
C 111.16'



CURVE DATA
LINE "PR-3"
Curve No 16 (49)
PI Sta. 11+21.77
Δ 60°0'00"
D 114°35'30"
R 50.00'
T 28.87'
L 52.36'
C 50.00'

Curve No 17 (53)
PI Sta. 12+62.36
Δ 60°0'00"
D 45°06'33"
R 127.00'
T 39.21'
L 76.07'
C 74.94'



ALIGNMENT DATA

Point	No Call	Station	Line	Offset	Equation Point		Point Coordinate		Bearing	
					Station	Line	North	East		Toward Point
1 POT	9+14.00	PR-1			78+14	A	48	2015.4053	7549.7176	N.74°42'00"E.
2 PI	12+14.24	PR-1			81+14	A	40	2083.1925	7842.2513	N.76°59'26"E.
3 PC	17+30.24	PR-1			86+30	A	40	2219.3515	8339.9628	N.74°42'00"E.
4 ODOT	17+30.24	PR-1		507 RT	86+30	A	567	1730.3207	8473.7464	
5 PI	19+81.60	PR-1			88+81.36	A	40	2285.4772	8582.4094	N.74°42'00"E.
6 PT	21+96.94	PR-1			90+33.53	A	260	2132.448	8781.9789	S.52°33'30"E.
7 PC	24+35.65	PR-1			91+78.04	A	450	1987.7434	8971.5040	S.52°33'30"E.
8 ODOT	24+35.65	PR-1		304 LT	94+20.00	A	266.0	2229.1129	9156.3212	
9 PI	25+40.48	PR-1			92+41.51	A	333.48	1924.0113	9054.7367	S.52°33'30"E.
10 PT	26+37.54	PR-1			93+42.91	A	560.06	1925.1284	9159.5613	N.89°23'22"E.
11 PC	26+87.54	PR-1			93+91.28	A	572.74	1925.6612	9209.5585	N.89°23'22"E.
					10+00.00	PR-2	0.00	1925.6612	9209.5585	N.89°23'22"E.
12 PI	27+26.76	PR-1			94+29.21	A	582.48	1926.0791	9248.7692	N.89°23'22"E.
13 PCC	27+63.41	PR-1			94+54.93	A	612.28	1904.3180	9281.3899	S.56°17'35"E.
14 PI	28+07.76	PR-1			94+83.89	A	645.41	1879.8155	9318.1203	S.56°17'35"E.
15 PT	28+49.26	PR-1			95+24.60	A	656.80	1880.2860	9342.2708	N.89°23'22"E.
16 PC	38+39.40	PR-1			104+84.57	A	907.93	1890.8391	10352.5349	N.89°23'22"E.
17 PI	38+84.40	PR-1			105+28.10	A	919.34	1891.3184	10397.5523	N.89°23'22"E.
18 PT	39+10.29	PR-1			105+59.51	A	875.81	1936.3160	10397.0728	N.00°36'38"W.
19 PC	43+12.77	PR-1			106+41.58	A	486.48	2338.7803	10392.7839	N.00°36'38"W.
20 PI	43+57.77	PR-1			106+52.99	A	442.95	2383.7777	10392.5044	N.00°36'38"W.
21 PT	43+83.46	PR-1			106+09.44	A	431.54	2383.2982	10347.3070	S.89°23'22"W.
22 PC	47+12.49	PR-1			102+91.18	A	348.11	2379.7920	10018.2915	S.89°23'22"W.
23 PI	47+45.68	PR-1			102+59.08	A	339.69	2379.4384	9985.1094	S.89°23'22"W.
24 PCC	47+77.71	PR-1			102+24.55	A	344.27	2344.5074	9955.4741	S.63°15'37"W.
25 PI	48+07.18	PR-1			101+97.67	A	352.12	2351.2475	9929.1546	S.63°15'37"W.
26 PT	48+35.65	PR-1			101+69.16	A	344.64	2350.9334	9899.6852	S.89°23'22"W.
27 PCC	51+71.89	PR-1			78+63.88	A	259.57	2347.3499	9563.4344	S.89°23'22"W.
					18+98.45	PR-2	0.0	2347.3499	9563.4344	S.89°23'22"W.
28 PI	52+45.40	PR-1			97+72.78	A	240.73	2346.5667	9489.9356	S.89°23'22"W.
29 PT	53+07.68	PR-1			97+16.24	A	287.70	2284.3434	9447.7944	S.34°58'47"W.
30 PC	55+21.68	PR-1			95+51.63	A	424.45	2111.0077	9325.1024	S.34°58'47"W.

ALIGNMENT DATA

Point	No Call	Station	Line	Offset	Equation Point		Point Coordinate		Bearing	
					Station	Line	North	East		Toward Point
31 PI	58+15.11	PR-1			93+25.93	A	411.95	1870.5935	9156.8722	S.34°58'57"W.
32 PCC	59+16.67	PR-1			92+26.25	A	335.97	2110.4895	8987.9036	N.35°09'31"W.
33 PI	62+10.10	PR-1			91+26.57	A	60	2350.3833	8818.9365	N.35°09'31"W.
34 PT	63+11.65	PR-1			94+20.00	A	60	2427.8107	9101.9633	N.74°42'00"E.
35 PI	78+11.65	PR-1			109+20.00	A	60	2823.6203	10548.7994	N.74°42'00"E.
36 POT	81+11.89	PR-1			112+20.00	A	48	2914.3566	10835.0003	N.72°24'34"E.
37 PI	10+44.15	PR-2			94+33.99	A	583.94	1926.1317	9252.7091	N.89°23'22"E.
38 PCC	10+85.45	PR-2			94+75.58	A	569.11	1951.4114	9289.9090	N.55°04'19"E.
39 PI	11+24.86	PR-2			95+12.51	A	555.94	1973.8627	9322.0585	N.55°04'19"E.
40 PT	11+61.72	PR-2			95+50.44	A	565.88	1974.2805	9361.2692	N.89°23'22"E.
41 PC	13+32.04	PR-2			97+15.19	A	609.07	1976.0954	9531.5779	N.89°23'22"E.
42 ODOT	13+32.04	PR-2		193 LT	97+64.13	A	422.38	2169.0844	9529.5213	
43 PI	17+89.57	PR-2			101+57.77	A	725.09	1980.9709	9989.0841	N.89°23'22"E.
44 PCC	17+84.28	PR-2			99+32.00	A	327.14	2305.2407	9466.3075	N.44°52'04"W.
45 ODOT	17+84.28	PR-2		143 LT	98+07.62	A	397.70	2204.3580	9564.9582	
46 PI	18+44.60	PR-2			99+02.23	A	274.68	2347.9927	9623.7523	N.44°52'04"W.
					51+11.57	PR-1	0.0	2347.9927	9623.7523	S.89°23'22"W.

Parameter: Line "A", Line "PR-1" and Line "PR-2"
Coordinate Base: Sta. 0+00.00 = North 0.0000, East 0.0000

ALIGNMENT DATA

Point	No Call	Station	Line	Offset	Equation Point		Point Coordinate		Bearing	
					Station	Line	North	East		Toward Point
47 POT	10+00.00	PR-3			102+60.15	A	515.72	2209.9248	10332.5819	
48 PC	10+92.90	PR-3			101+70.27	A	492.16	2208.9349	9939.4872	S.89°23'22"W.
49 PI	11+21.77	PR-3			101+42.34	A	484.84	2208.6273	9910.8213	S.89°23'22"W.
50 PT	11+45.26	PR-3			101+34.72	A	457.00	2233.4721	9896.1220	N.30°36'38"W.
51 PC	11+89.04	PR-3			101+23.16	A	414.77	2271.1513	9873.8292	N.30°36'38"W.
52 PI	12+62.36	PR-3			101+03.80	A	344.05	2334.2570	9836.4929	N.30°36'38"W.
53 ODOT	13+22.03	PR-3			100+00.68	A	448.31	2206.9685	9764.5270	
54 POT	13+22.03	PR-3		127 LT	100+32.38	A	325.46	2333.4757	9763.1736	S.89°23'22"W.

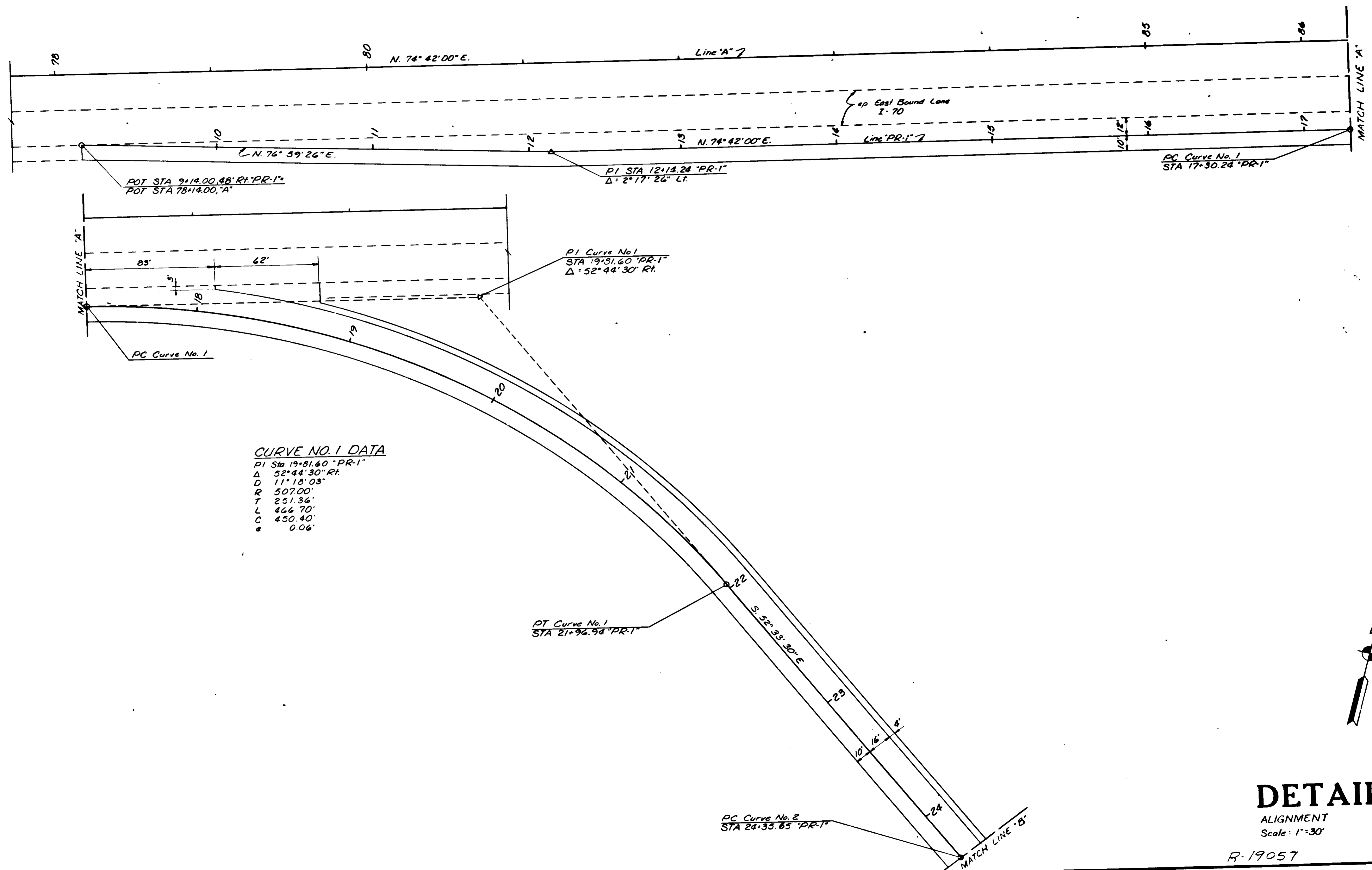
DETAILS

ALIGNMENT
Scale: 1"=100'



R-19057

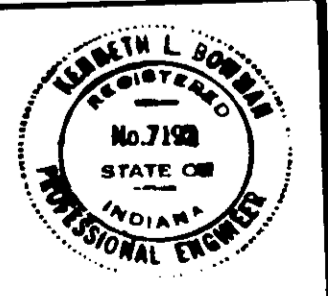
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	RRHD 70-N0000	1989	11	171



CURVE NO. 1 DATA
 PI Sta 19+31.60 "PR-1"
 $\Delta = 52^{\circ} 44' 30" Rt.$
 D 11' 18" 03"
 R 507.00'
 T 251.36'
 L 466.70'
 C 450.40'
 e 0.06'

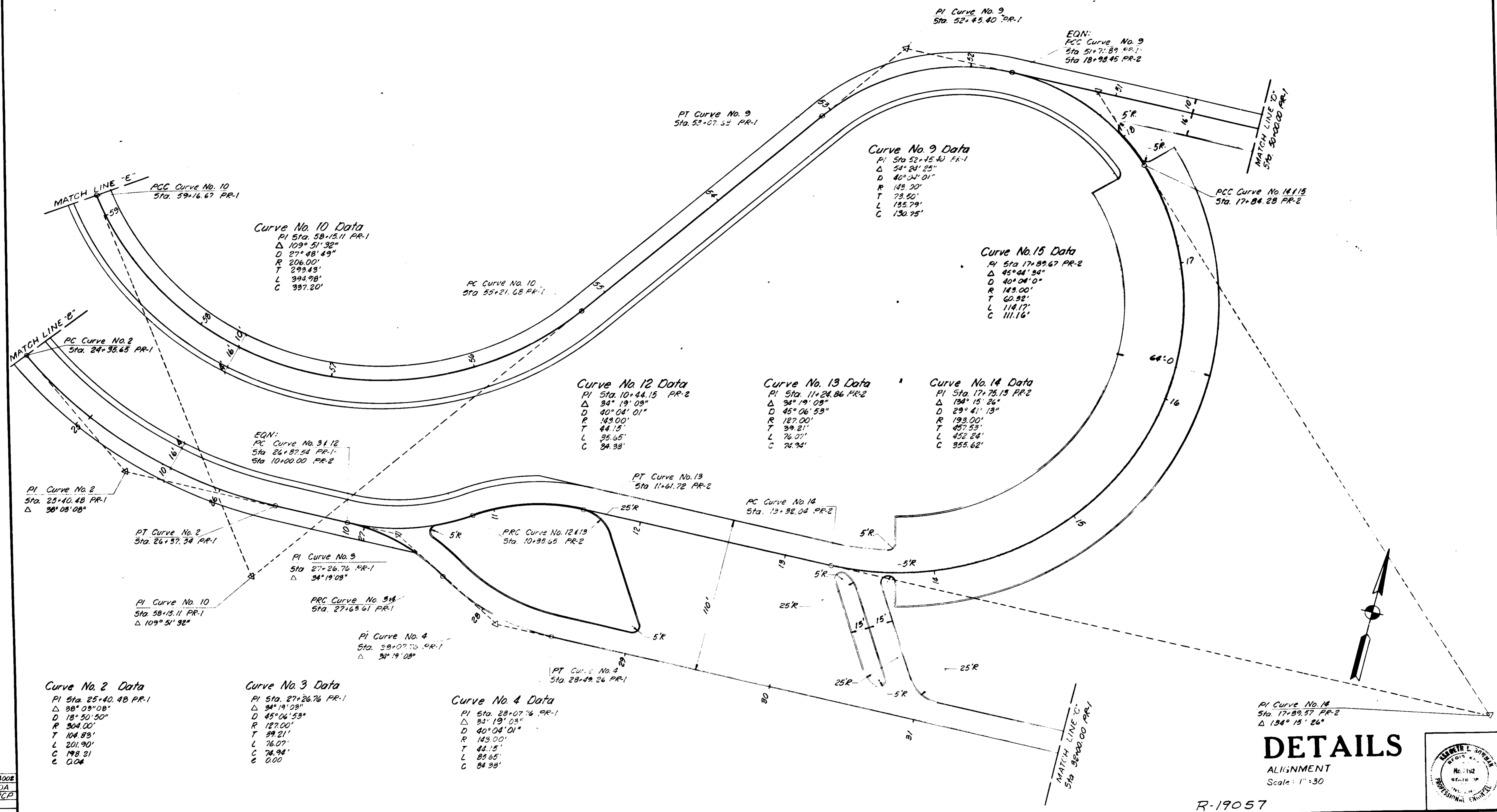
DETAILS
 ALIGNMENT
 Scale: 1"=30'

R-19057



24202
DA DA
KLX REX

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND	HR/10 20-1000	1967	12	171



04002	DA	DA
	SCP	RCP

DETAILS

ALIGNMENT
Scale: 1" = 30'



R-19057

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HR-140 70 ROAD	1967	13	171

Curve No. 8 Data

PI Sta. 48+07.18 "PR-1"
 Δ 26° 07' 45" Rt.
D 45° 06' 53"
R 127.00'
T 29.47'
L 57.92'
C 57.42'

Curve No. 7 Data

PI Sta. 47+45.68 "PR-1"
 Δ 26° 07' 45" Lt.
D 40° 04' 01"
R 143.00'
T 33.18'
L 65.21'
C 64.65'

Curve No. 17 Data

PI Sta. 12+62.36 "PR-3"
 Δ 60° 0' 00" Lt.
D 45° 06' 53"
R 127.00'
T 73.32'
L 132.99'
C 127.00'

Curve No. 16 Data

PI Sta. 11+21.77 "PR-3"
 Δ 60° 0' 00" Rt.
D 114° 35' 30"
R 50.00'
T 28.87'
L 52.36'
C 50.00'

Curve No. 6 Data

PI Sta. 43+57.77 "PR-1"
 Δ 90° 00' 00" Lt.
D 127° 19' 26"
R 45.00'
T 45.00'
L 70.69'
C 63.64'

Curve No. 5 Data

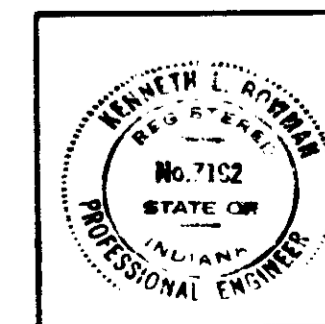
PI Sta. 38+34.60 "PR-1"
 Δ 90° 00' 00" Lt.
D 127° 19' 26"
R 45.00'
T 45.00'
L 70.69'
C 63.64'

PC Curve No. 5
Sta 38+39.60 "PR-1"

DETAILS

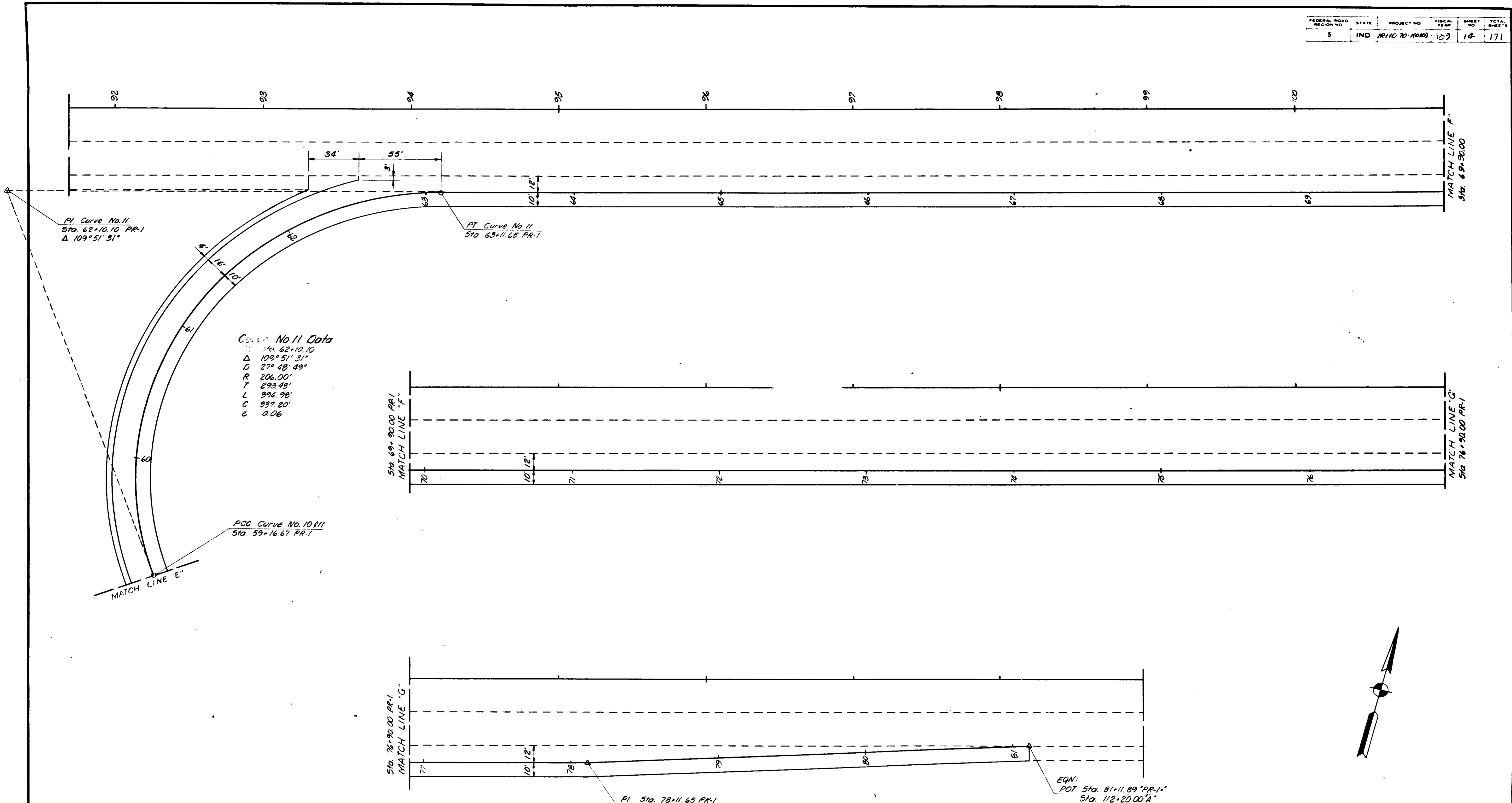
ALIGNMENT
Scale: 1" = 30'

R-19057



84002	DA
UA	DA
RTP	RTP

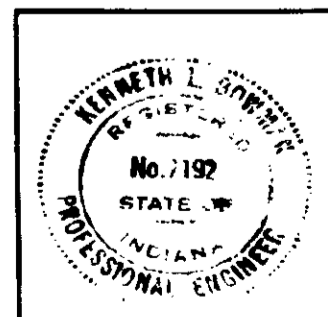
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR110 70 1000	1979	14	171



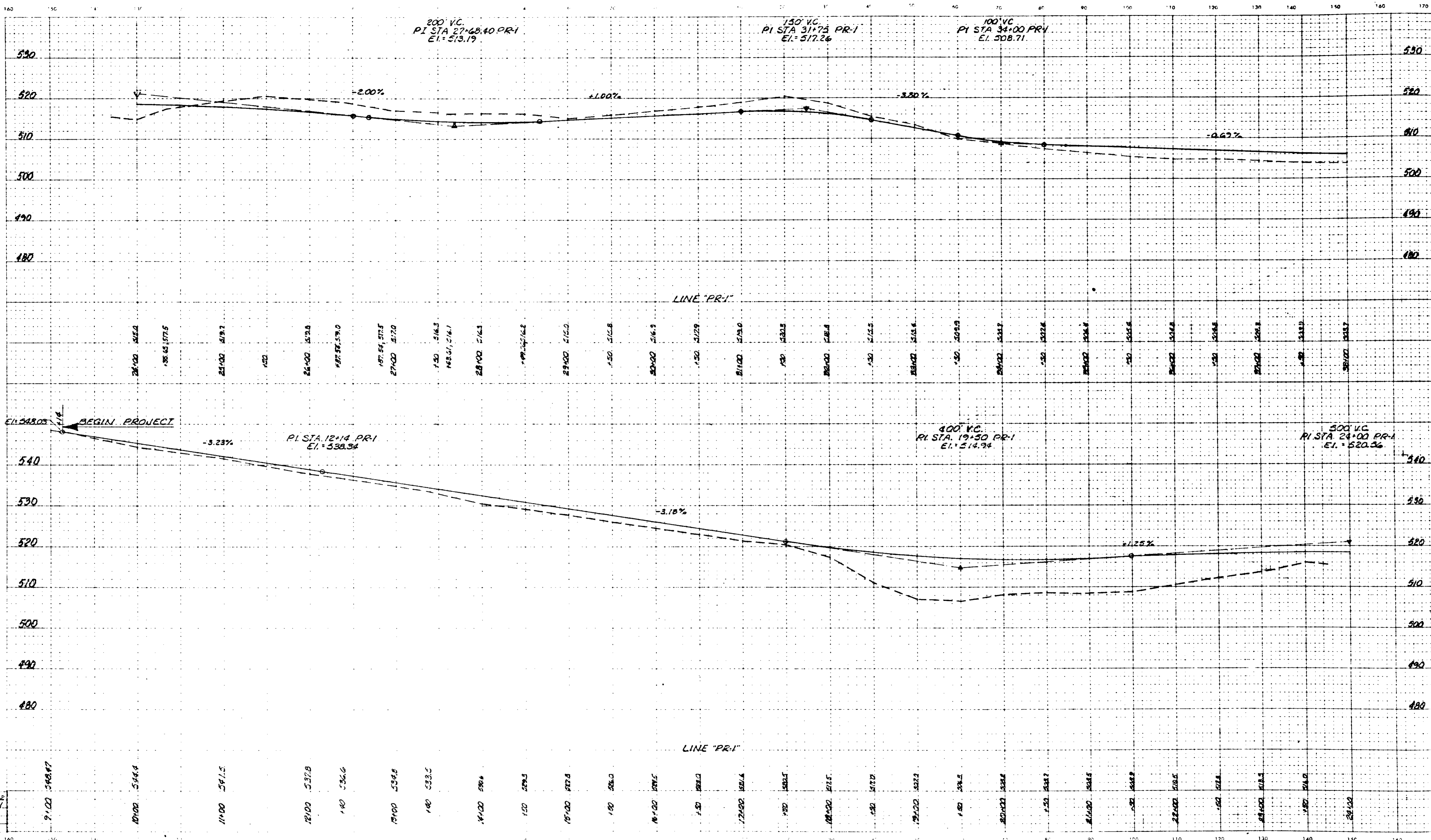
04002	DA	DA
	REN	REN

DETAILS

ALIGNMENT
Scale: 1" = 30'



R-19057



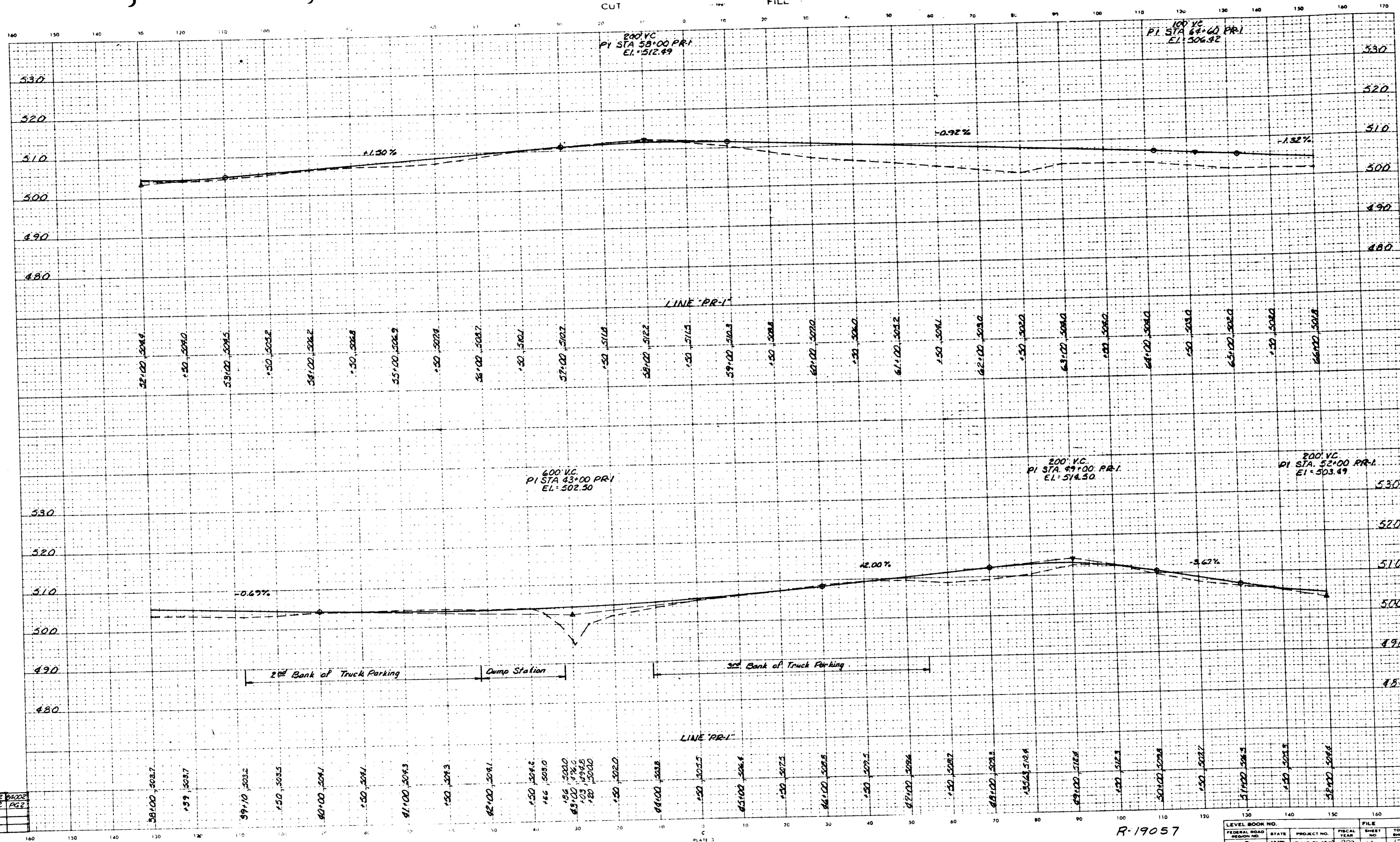
84002	84002
PG1	PG1

September, 1973

R-19057

LEVEL BOOK NO.				FILE	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	18-110-10-1100	73	15	171
Profile Grade				LINE PR-1	

CUT SECTIONS FILL

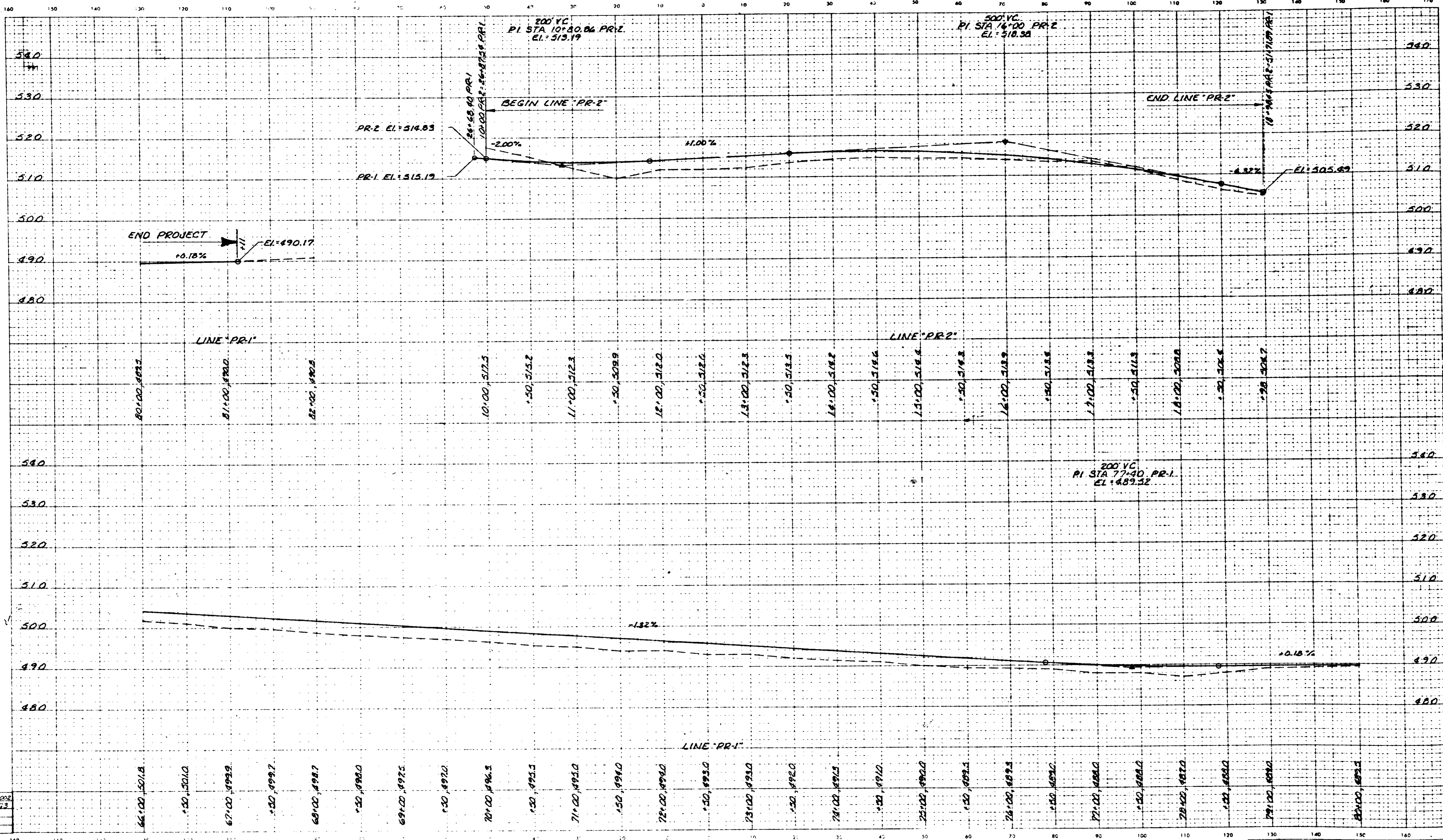


4002	4002
422	422

R-19057

LEVEL BOOK NO.				FILE
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
5	IND.	10-10-100	1989	16
Profile Grade				2 LINE PR-1

CUT 10' FILL



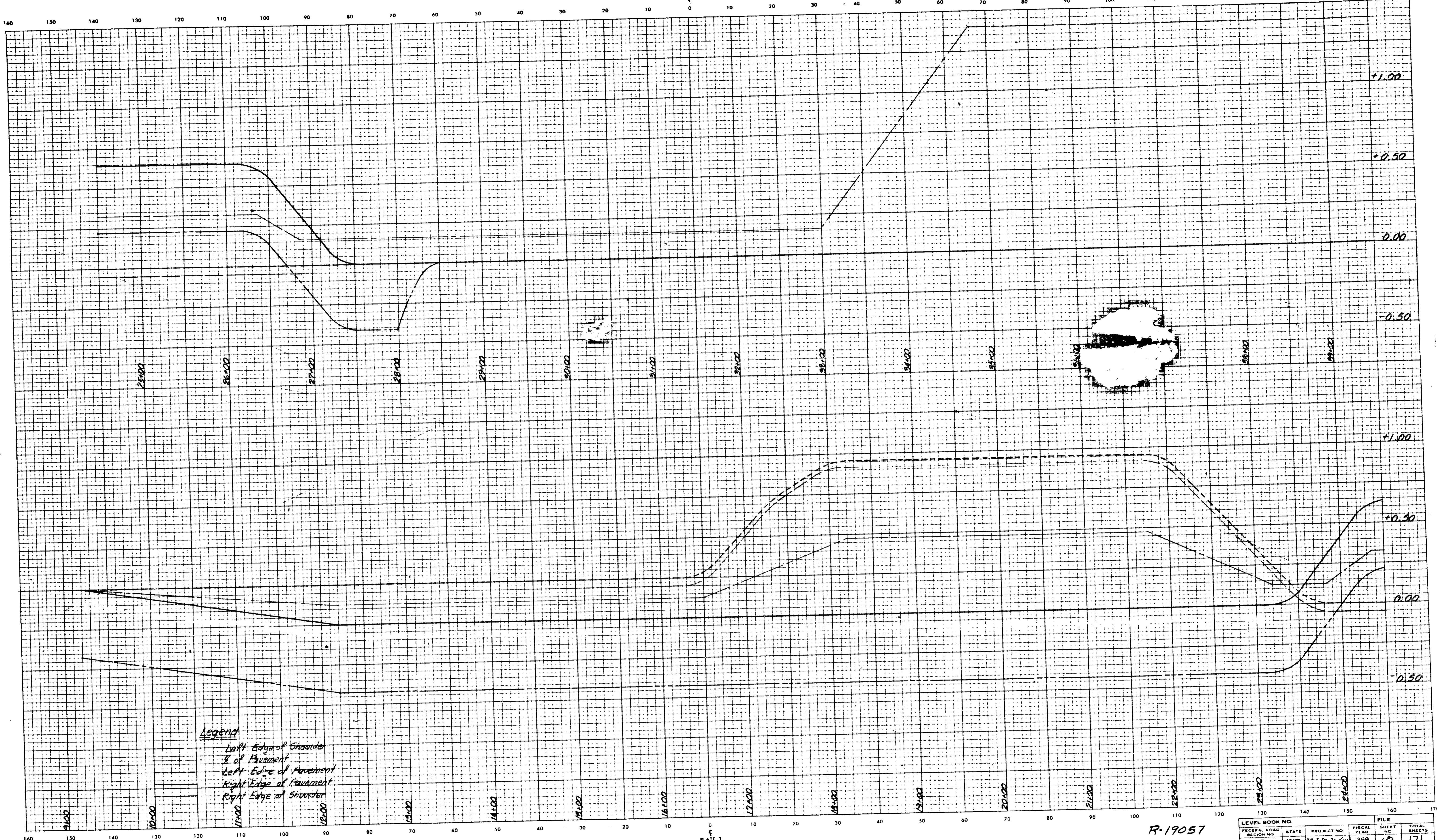
MOOR	24002
083	143

September, 1973

R-19057

LEVEL BOOK NO.				FILE	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	16-10-76/100	1989	17	171
Profile Grade				LINE PR-1 & PR-2	

CUT CROSS SECTIONS FILL
Scale 1 inch = 10 feet



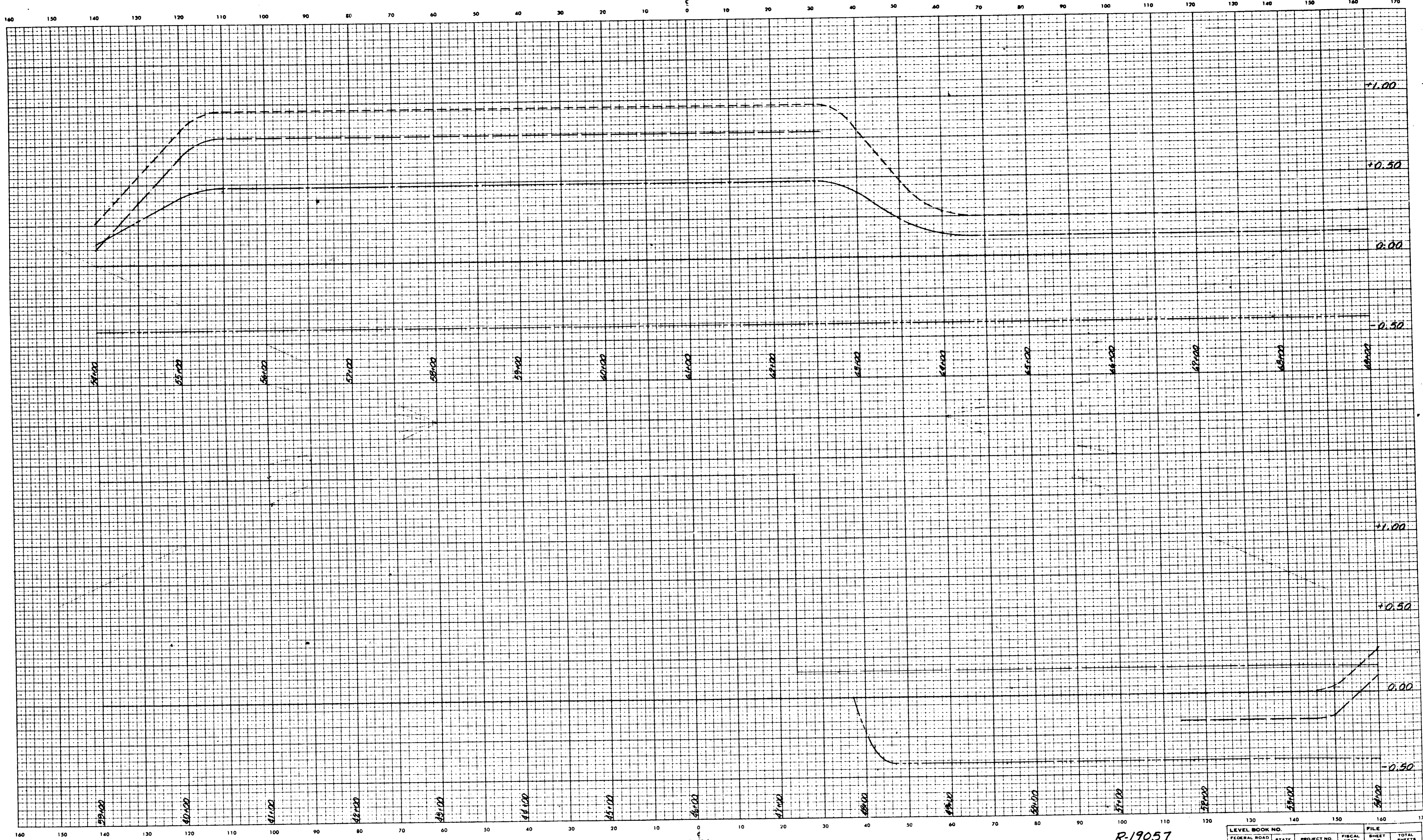
Legend
 Left Edge of Shoulder
 Left Edge of Pavement
 Right Edge of Pavement
 Right Edge of Shoulder

R-19057

LEVEL BOOK NO.		STATE		PROJECT NO.		FISCAL YEAR		FILE	
FEDERAL ROAD REGION NO.	NO.	STATE	NO.	PROJECT NO.	NO.	FISCAL YEAR	NO.	SHEET NO.	TOTAL SHEETS
5		IND.		IR-10-70-Kuy		1989		12	171
									LINE PR-1

September, 1973

CUT CROSS SECTIONS FILL
Scale 1 inch = 10 feet



September, 1973

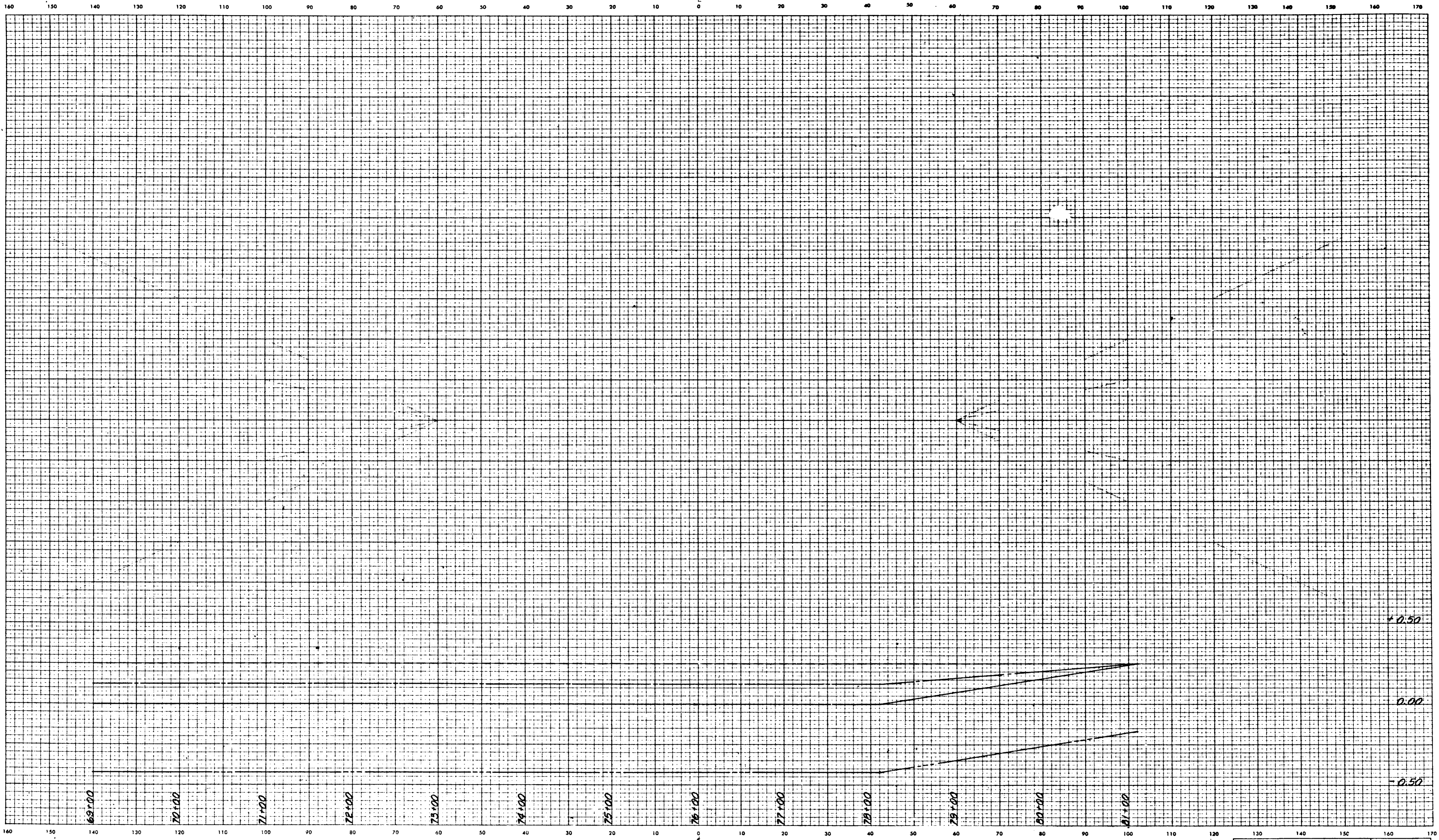
R-19057

LEVEL BOOK NO.		FILE	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR
5	IND.	7-7-10-70-114	1989
		SHEET NO.	TOTAL SHEETS
		19	171

LINE PK-1

CUT CROSS SECTIONS FILL

Scale 1 inch = 10 feet



69+00

70+00

71+00

72+00

73+00

74+00

75+00

76+00

77+00

78+00

79+00

80+00

81+00

+0.50

0.00

-0.50

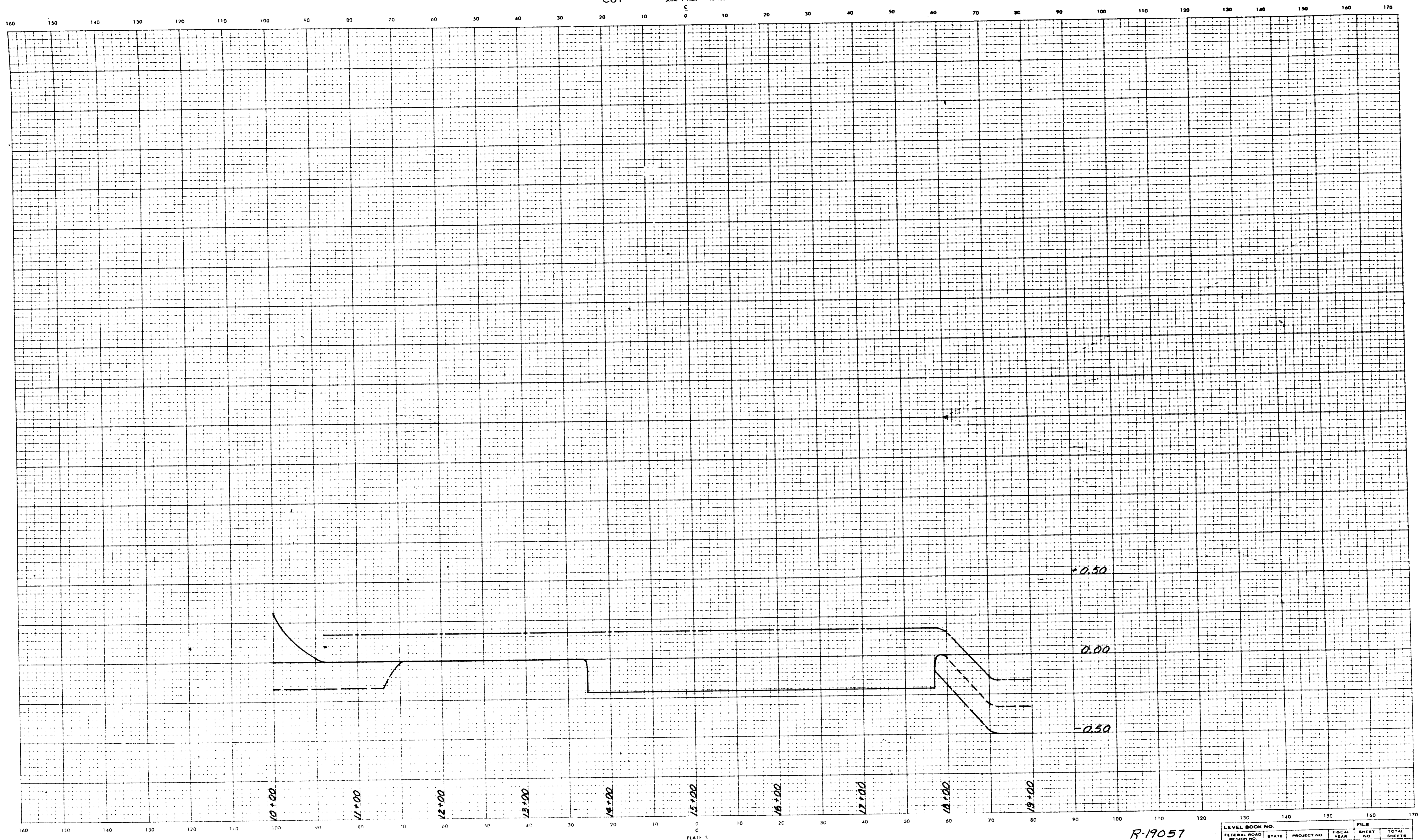
PLATE 3

September, 1973.

R-19057

LEVEL BOOK NO.		STATE		PROJECT NO.		FISCAL YEAR		FILE	
FEDERAL ROAD REGION NO.								SHEET NO.	TOTAL SHEETS
5	IND.	Pr-I-Ed-70-(Low)		1989				20	171
LINE PR-1									

CUT **CROSS SECTIONS** FILL
 Scale 1 inch = 10 feet
 C



10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00

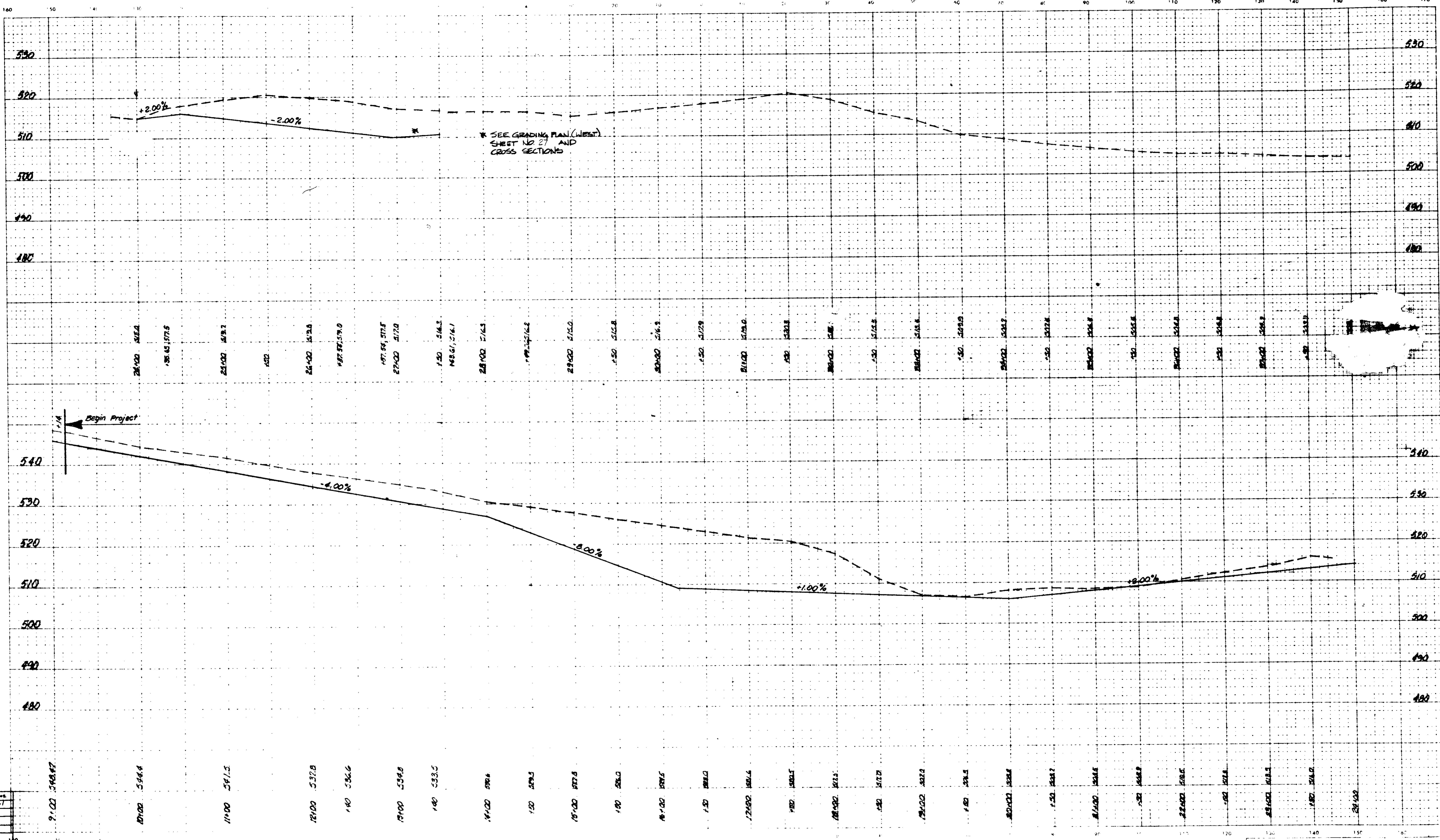
+0.50
 0.00
 -0.50

September, 1973

R-19057

LEVEL BOOK NO.		FILE	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR
5	IND.	R-19057-1010	1989
		SHEET NO.	TOTAL SHEETS
		21	171
			LINE PR-2

CUT SECTIONS FILL



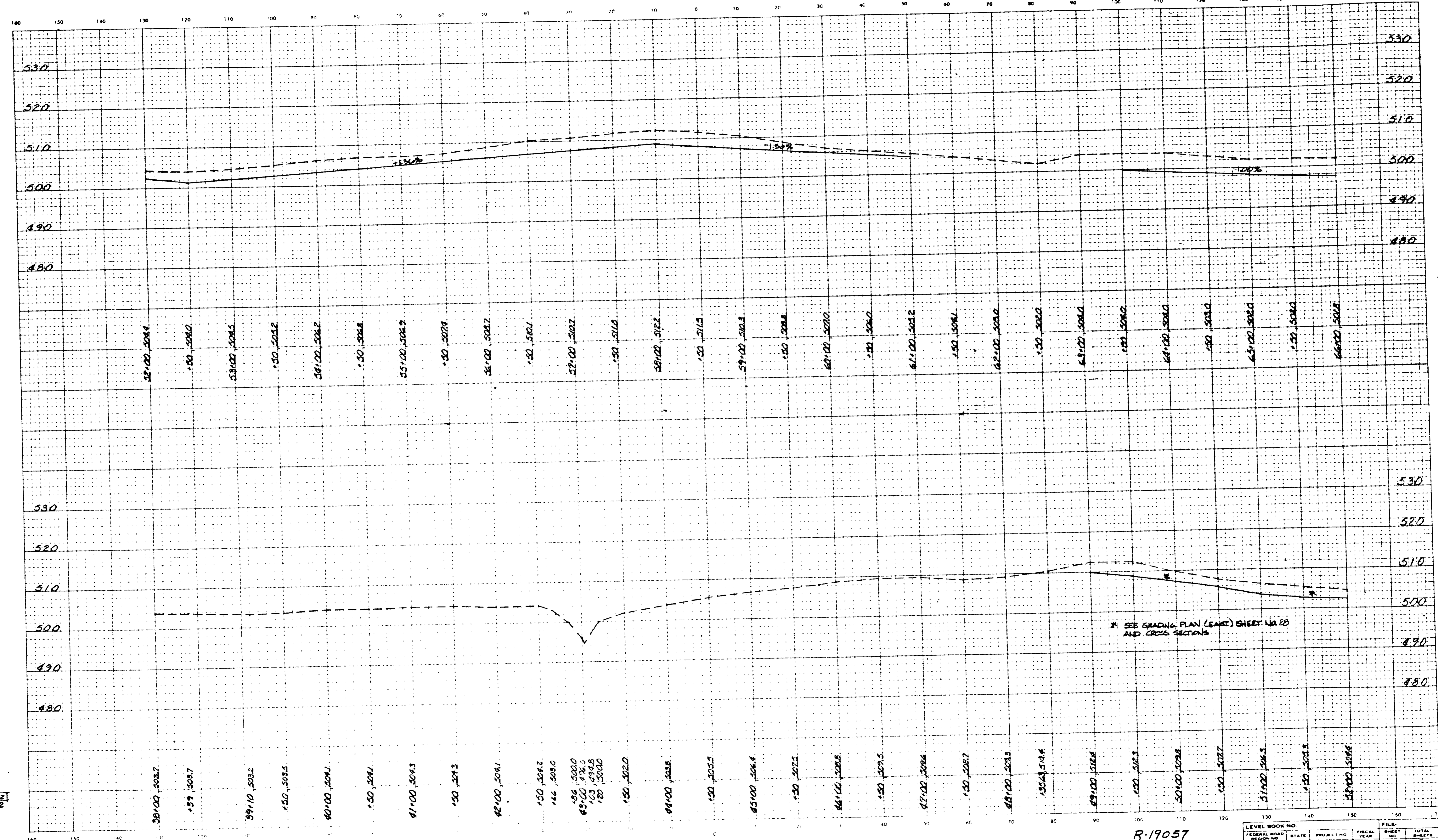
Sheet	26	27
PG#	167	171

R-19057

LEVEL BOOK NO.	FILE				
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	118-110-R-1000	1989	27	171
Profile Grade Right Side Ditch LINE					PK-1

September, 1973

CUT CROSS SECTIONS FILL



* SEE GRADING PLAN (LEFT) SHEET NO. 28 AND CROSS SECTIONS

WOOD
PAGE

R-19057

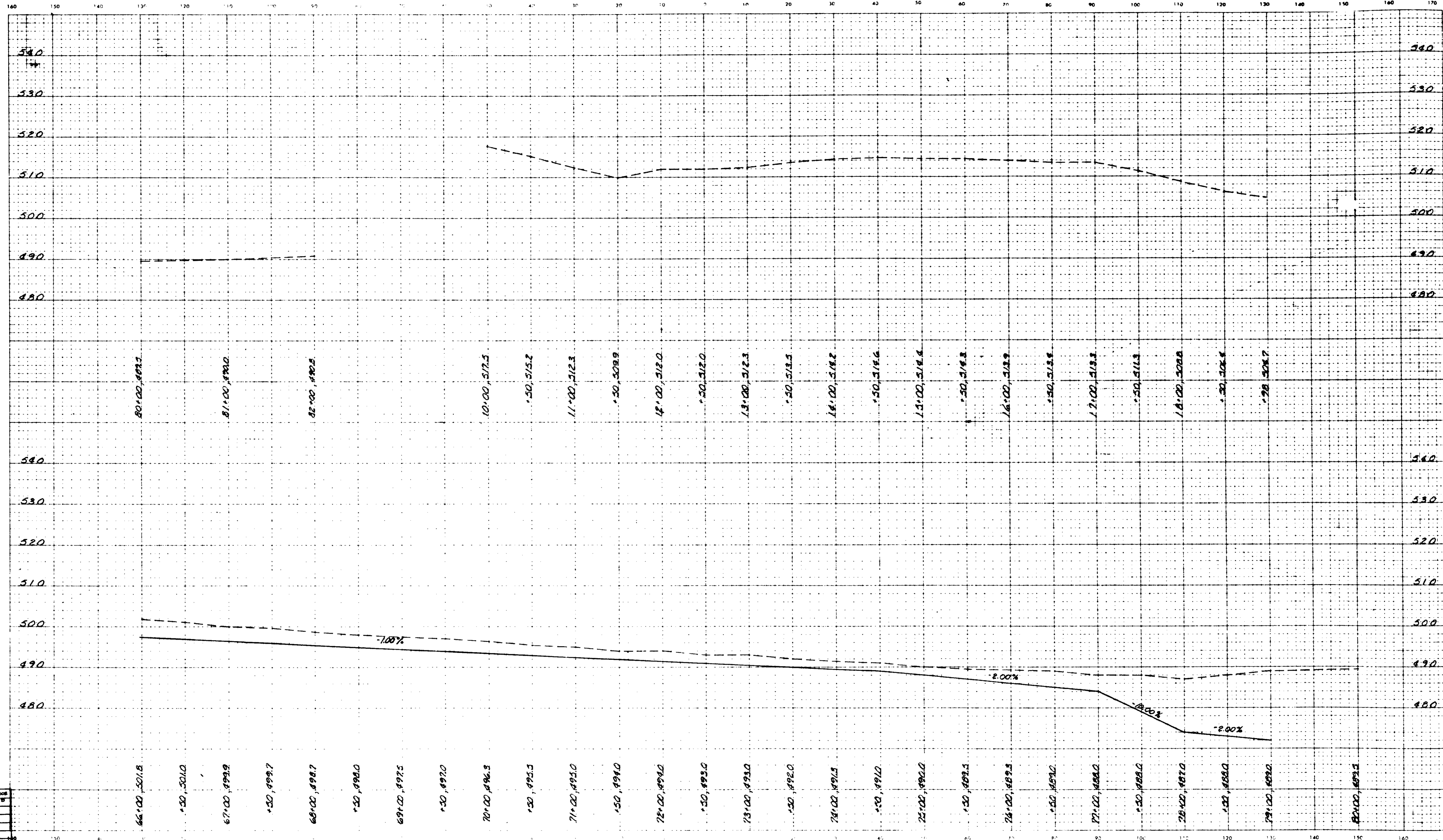
LEVEL BOOK NO.	FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	5	IND.	IND-10-70-100	1969	23	171

Profile Grade Right Side LINE PR1

CUT

ATIONS

FILL



PG 3
PG 4
PG 5
PG 6
PG 7
PG 8
PG 9
PG 10

September 1973

R-19057

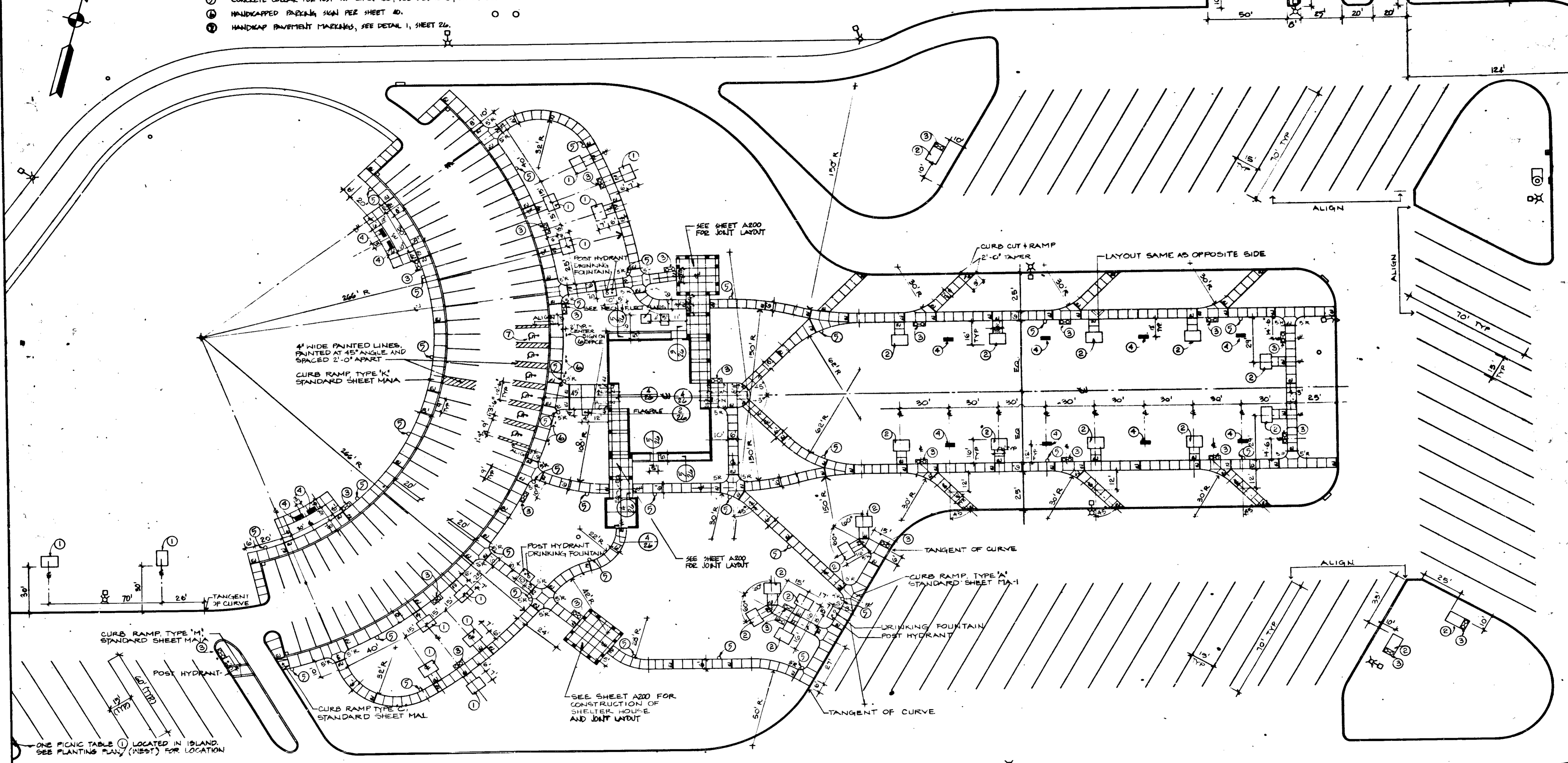
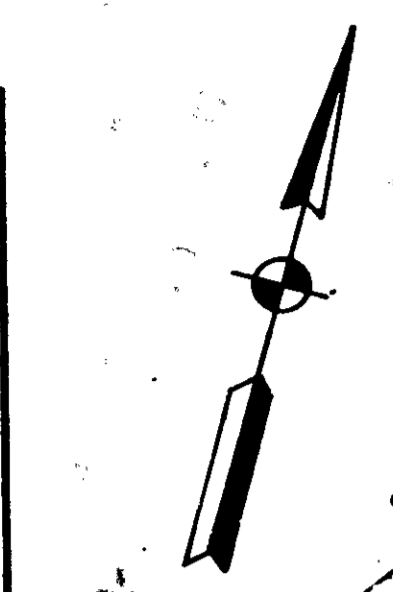
LEVEL BOOK NO.				FILE	
FEDERAL ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	18-1-D-70-160	1989	24	171

Profile Grade Right Side of ROADLINE PER I&R-2

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	DR-11-D-7-K-6	1969	25	171

NOTES

- ① CONCRETE PAD, PICNIC TABLE, GRILL AND SERVING TABLE PER STANDARD SHEET 26A
- ② CONCRETE PAD WITH PICNIC TABLE ONLY (CENTER TABLE ON PAD EACH WAY). SEE STANDARD SHEET 26A
- ③ TRASH RECEPTACLES PER STANDARD SHEET 26A
- ④ 6'-0" L BENCHES. SEE SPECIFICATIONS.
- ⑤ CONCRETE COLLAR FOR POST TOP UMBRIQUE, SEE DETAIL 6, SHEET 26.
- ⑥ HANDICAPPED PARKING SIGN PER SHEET 40.
- ⑦ HANDICAP PAVEMENT MARKINGS, SEE DETAIL 1, SHEET 26.



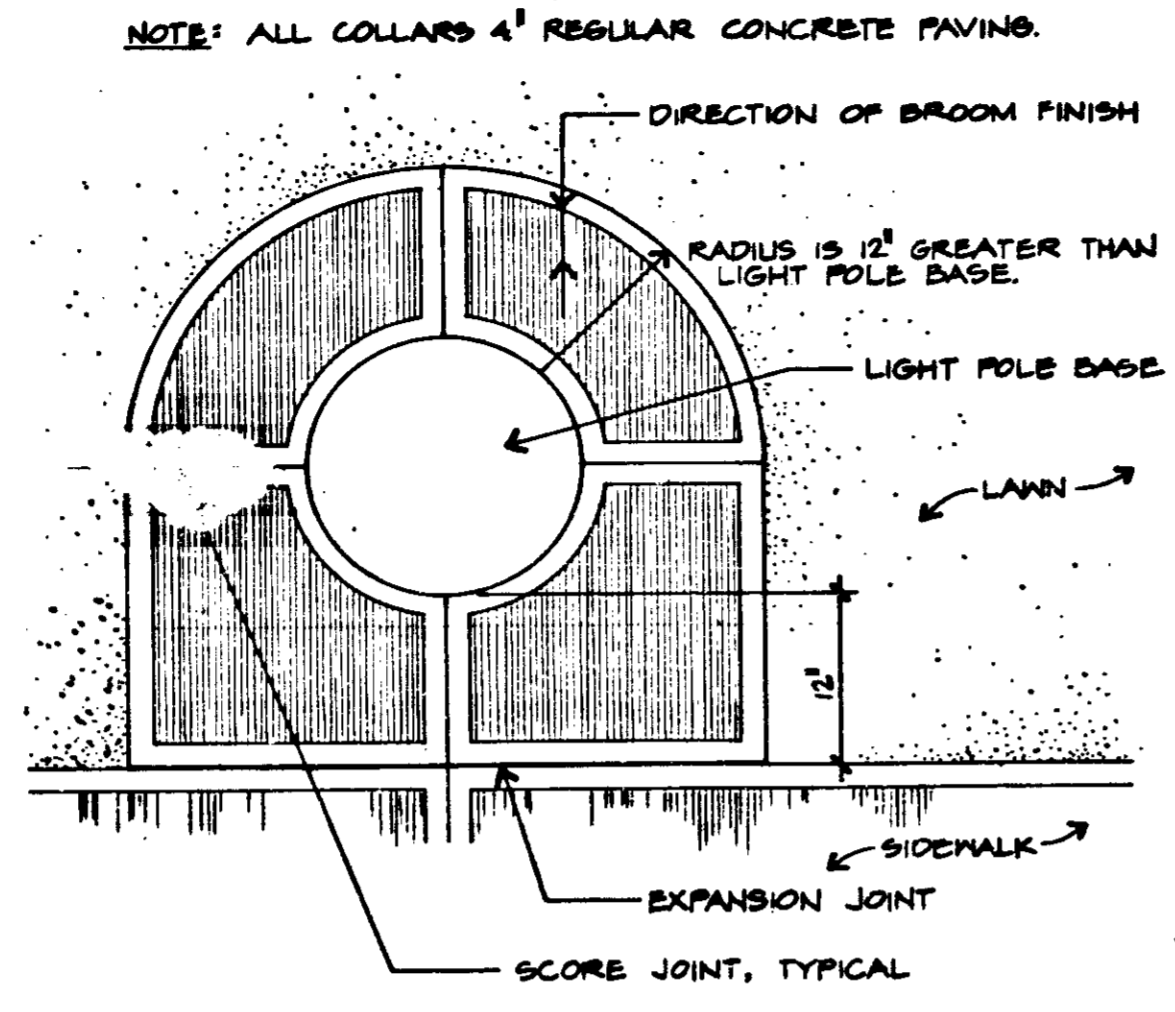
**DETAILS
LAYOUT**



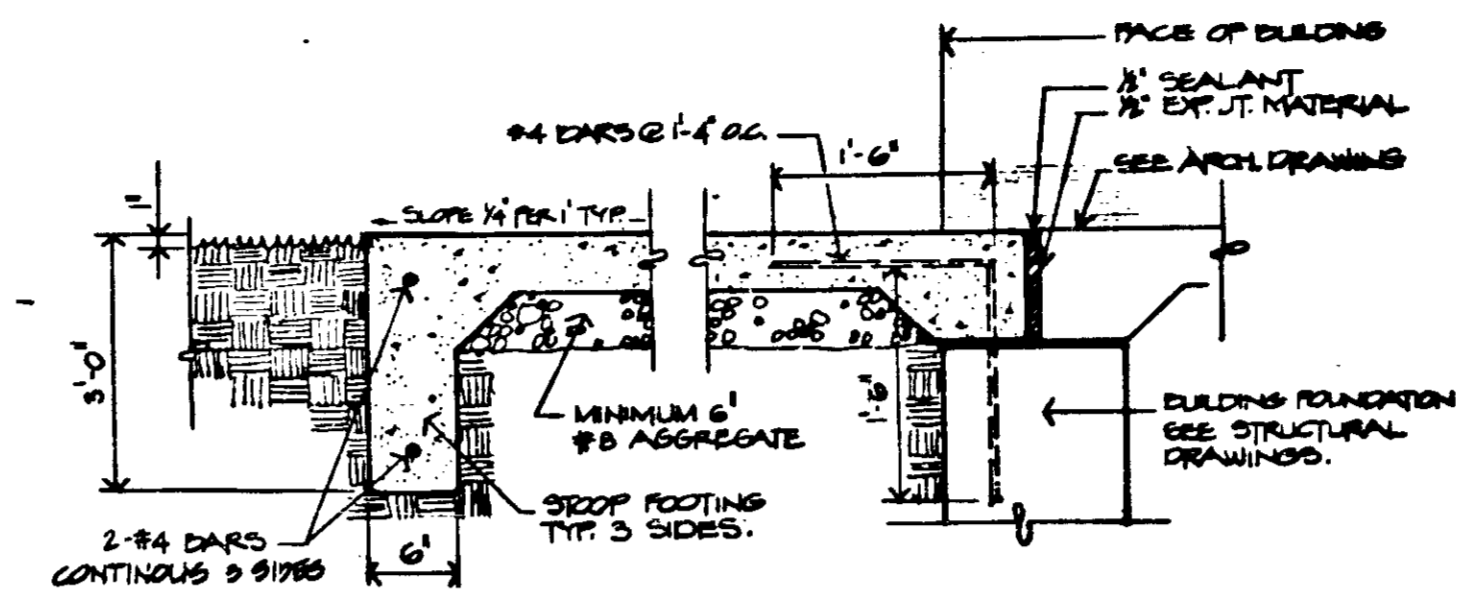
R-19057

84002					

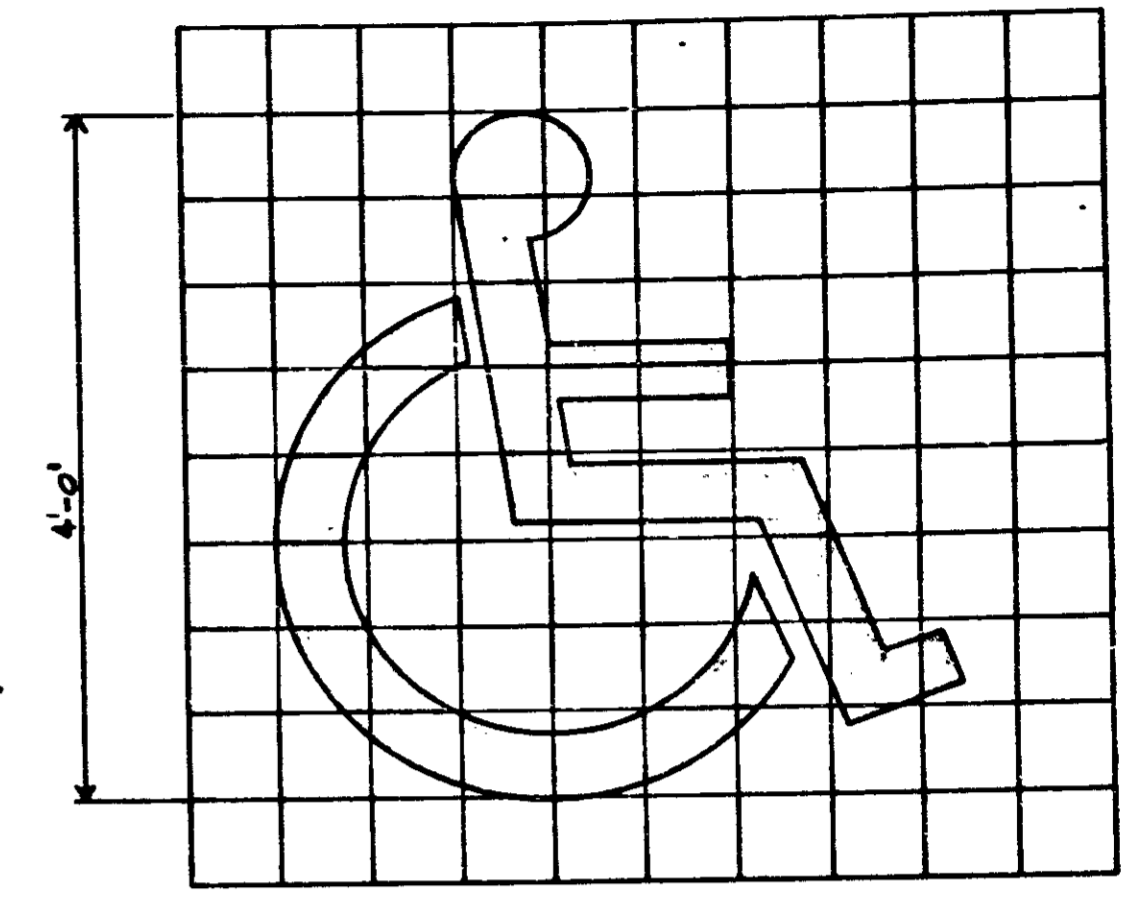
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	IND.	12-1-10-70-K610	1989	26	171



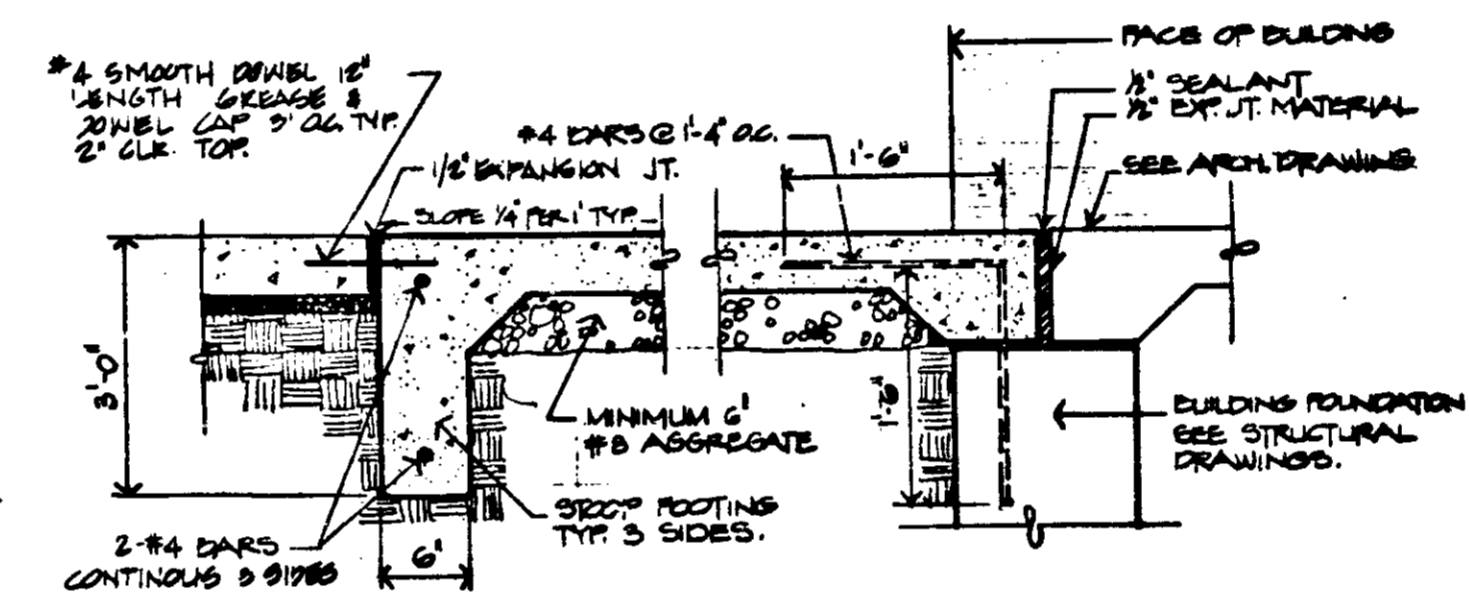
CONCRETE COLLAR 6
NO SCALE 26



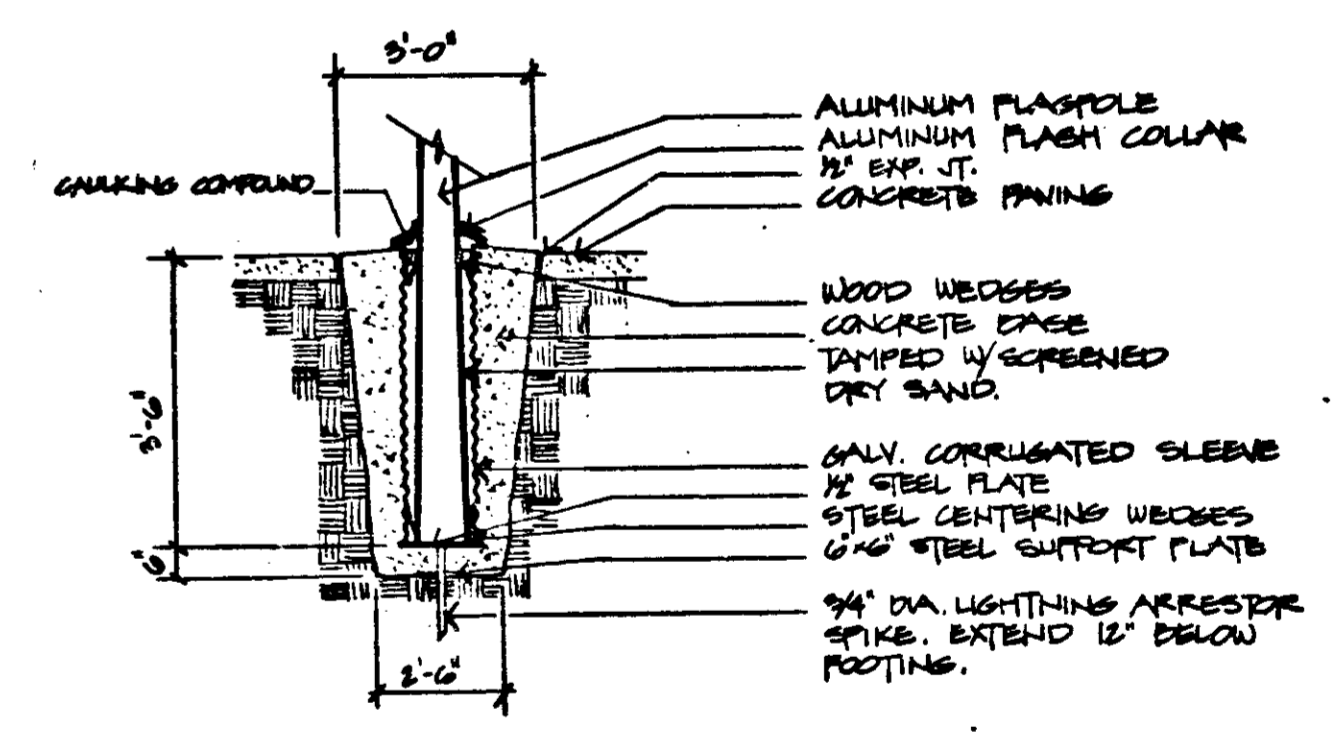
CONCRETE STOOP @ LAWN 3
NOT TO SCALE 26



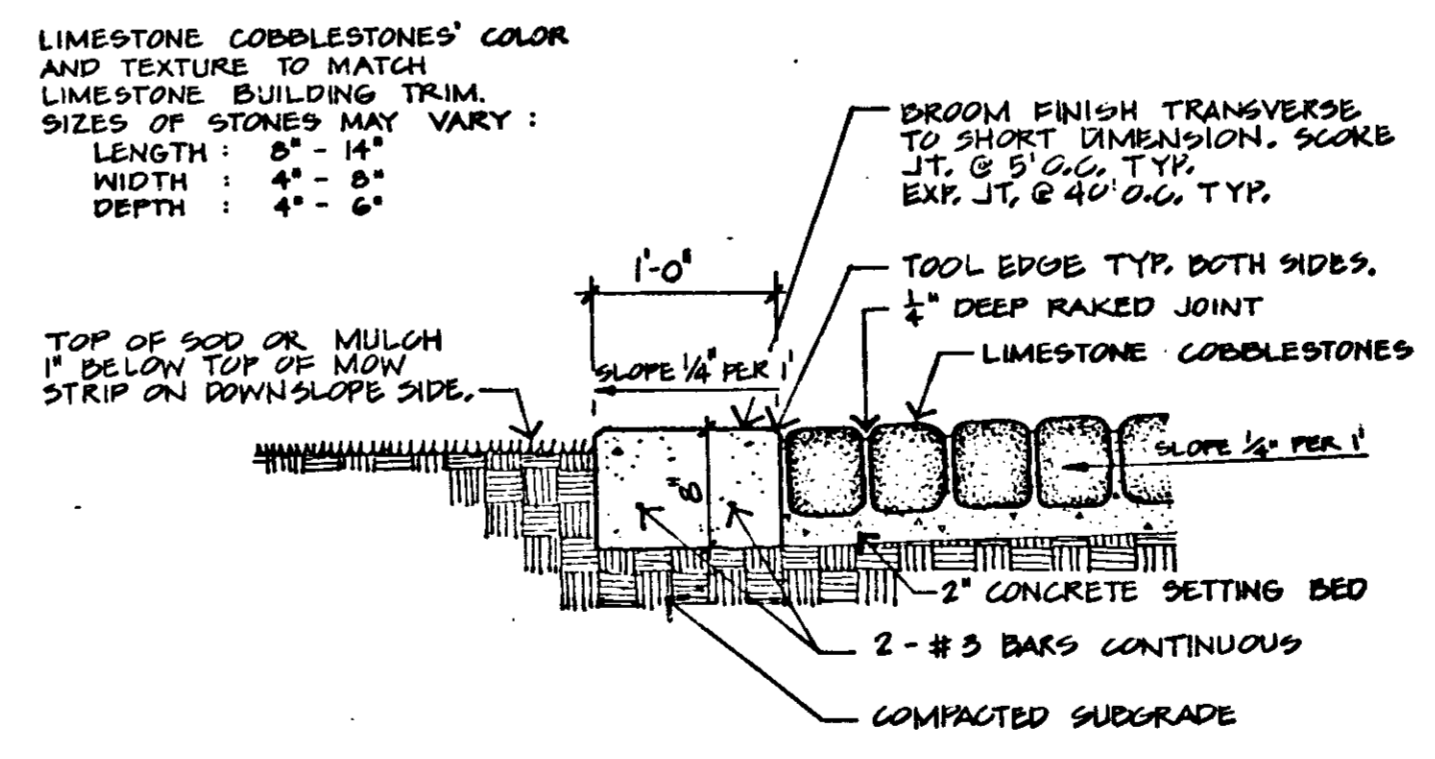
HANDICAP PAVEMENT MARKING 1
26



CONCRETE STOOP @ PAVING 4
NOT TO SCALE 26

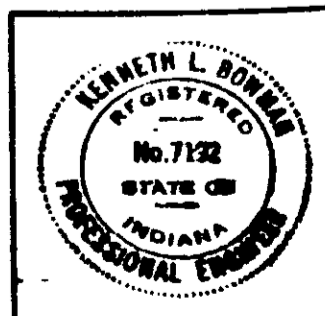


FLAGPOLE 2
NO SCALE 26

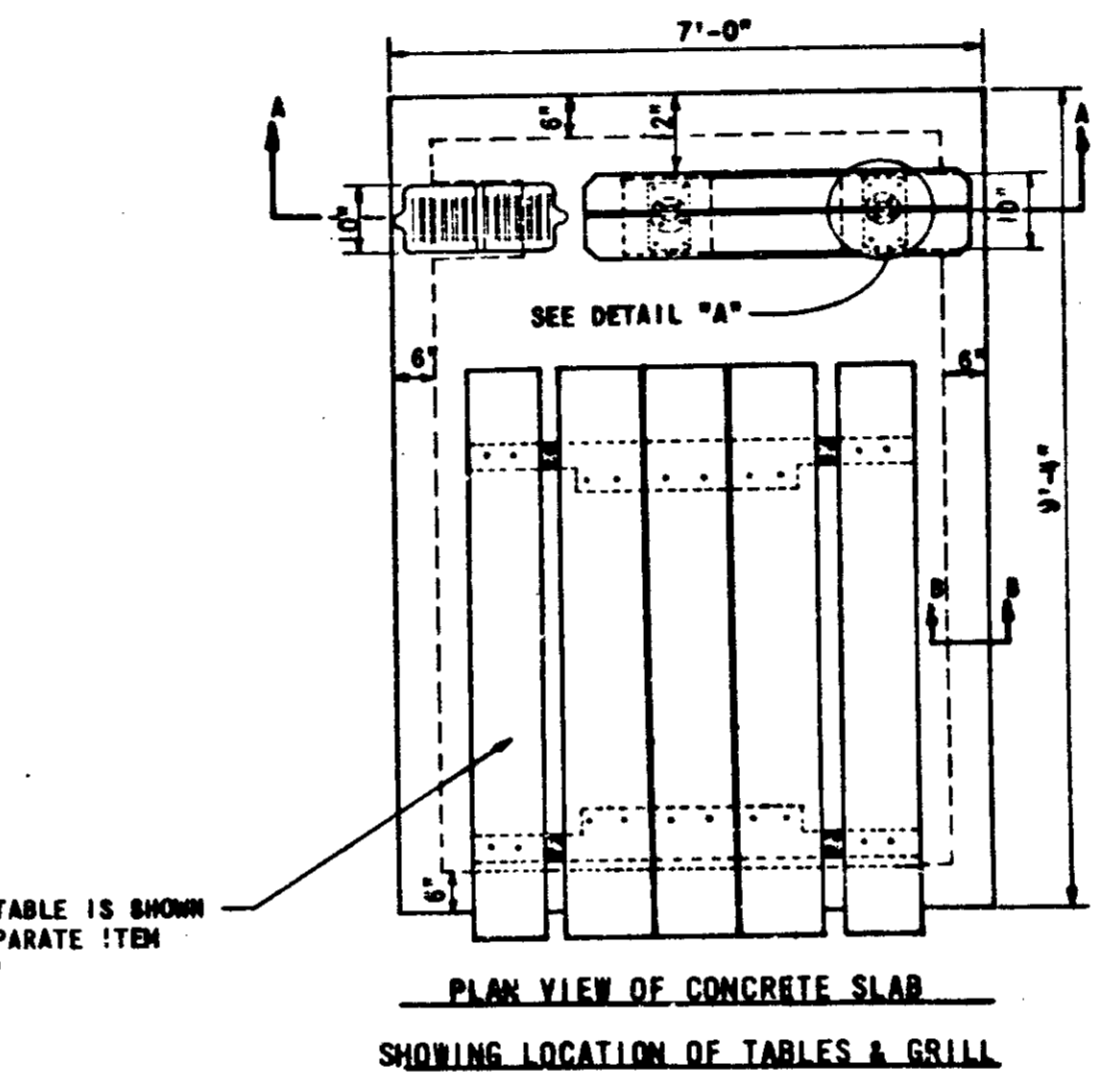
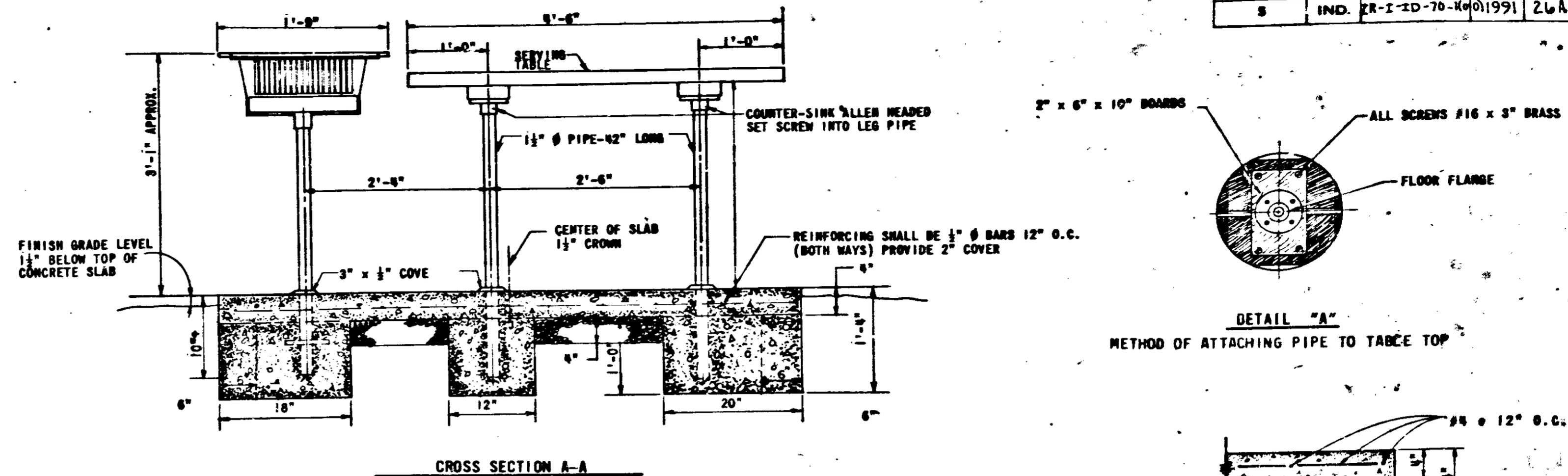
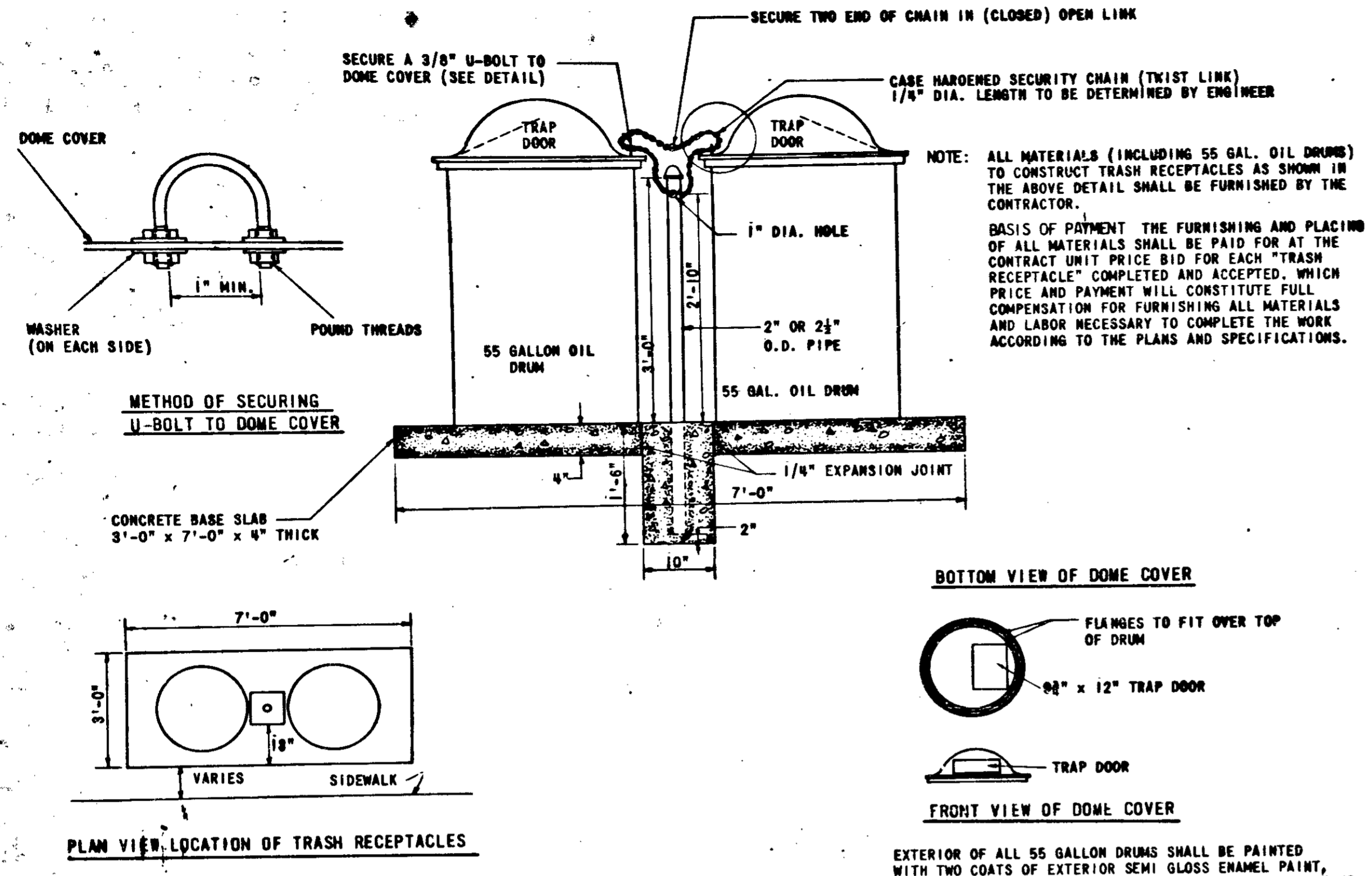


CONCRETE MOW STRIP 5
NOT TO SCALE 26

DETAILS

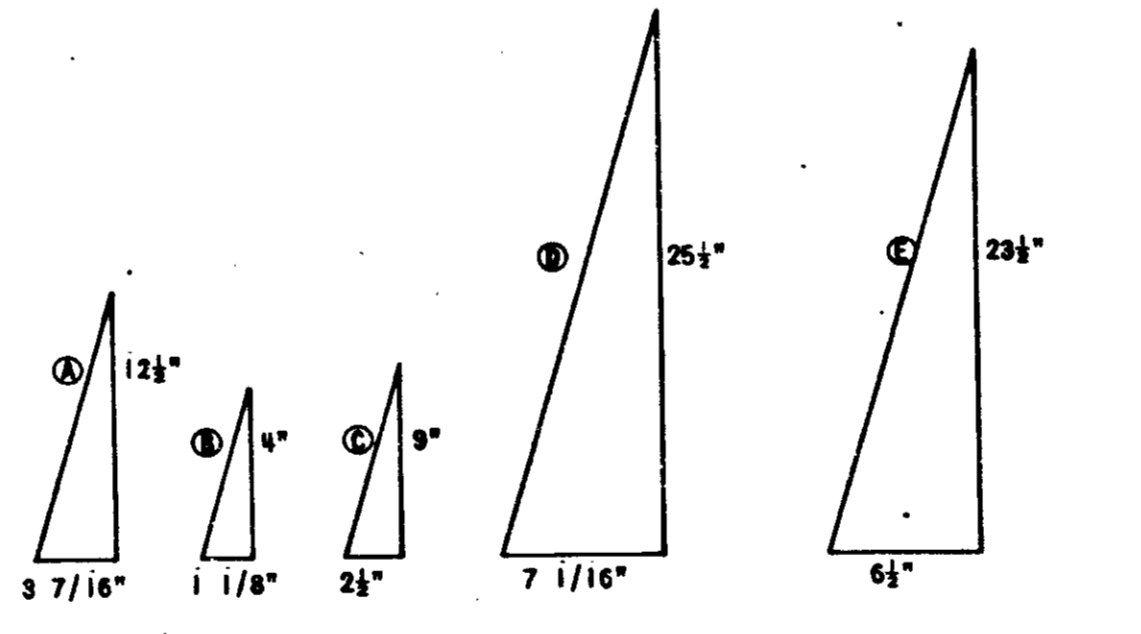
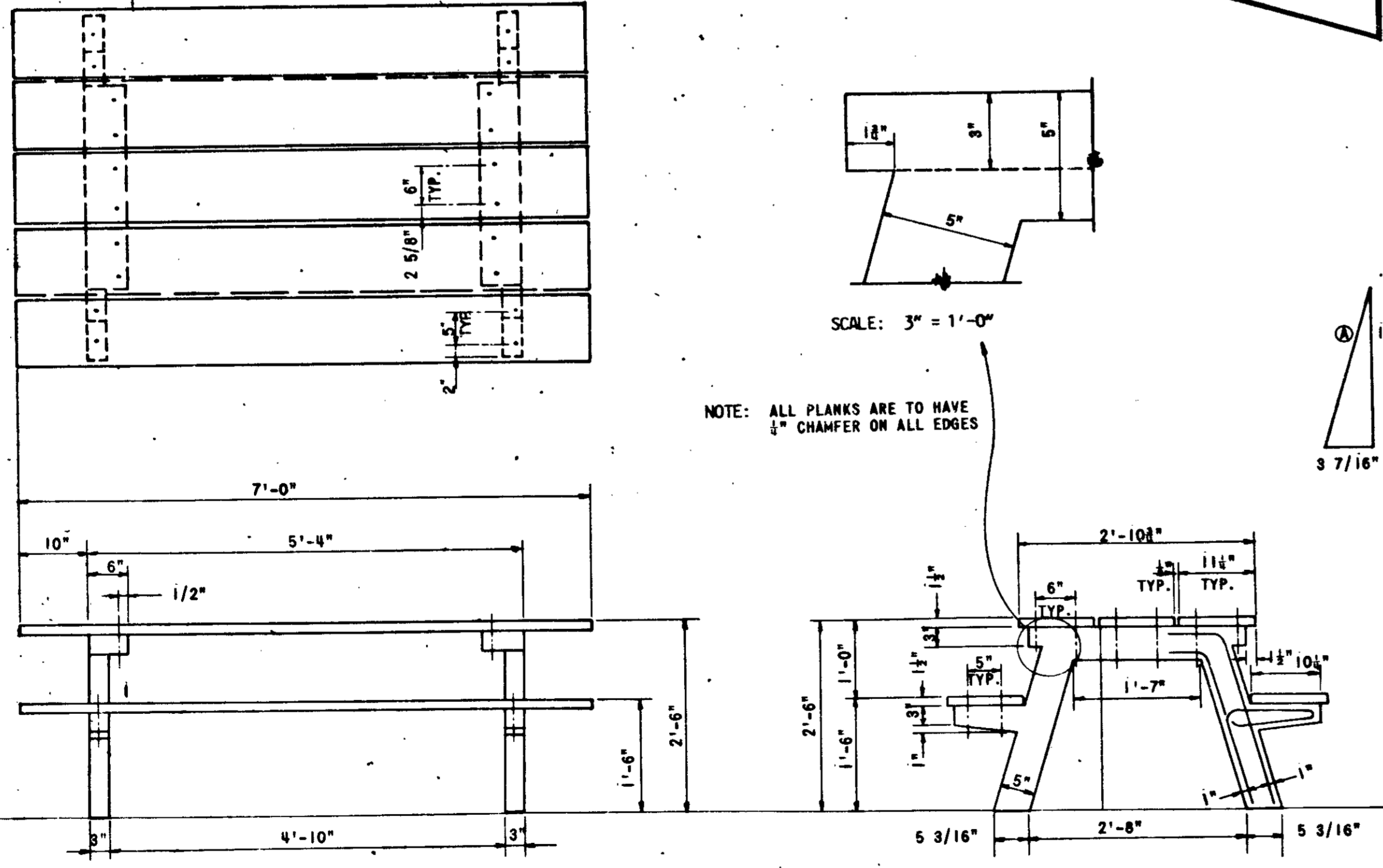


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BASIS OF PAYMENT

THE WORK INCLUDED IN THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR EACH "PICNIC TABLE" COMPLETED AND ACCEPTED, WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING, HAULING AND PLACING ALL MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED IN A SATISFACTORY MANNER.

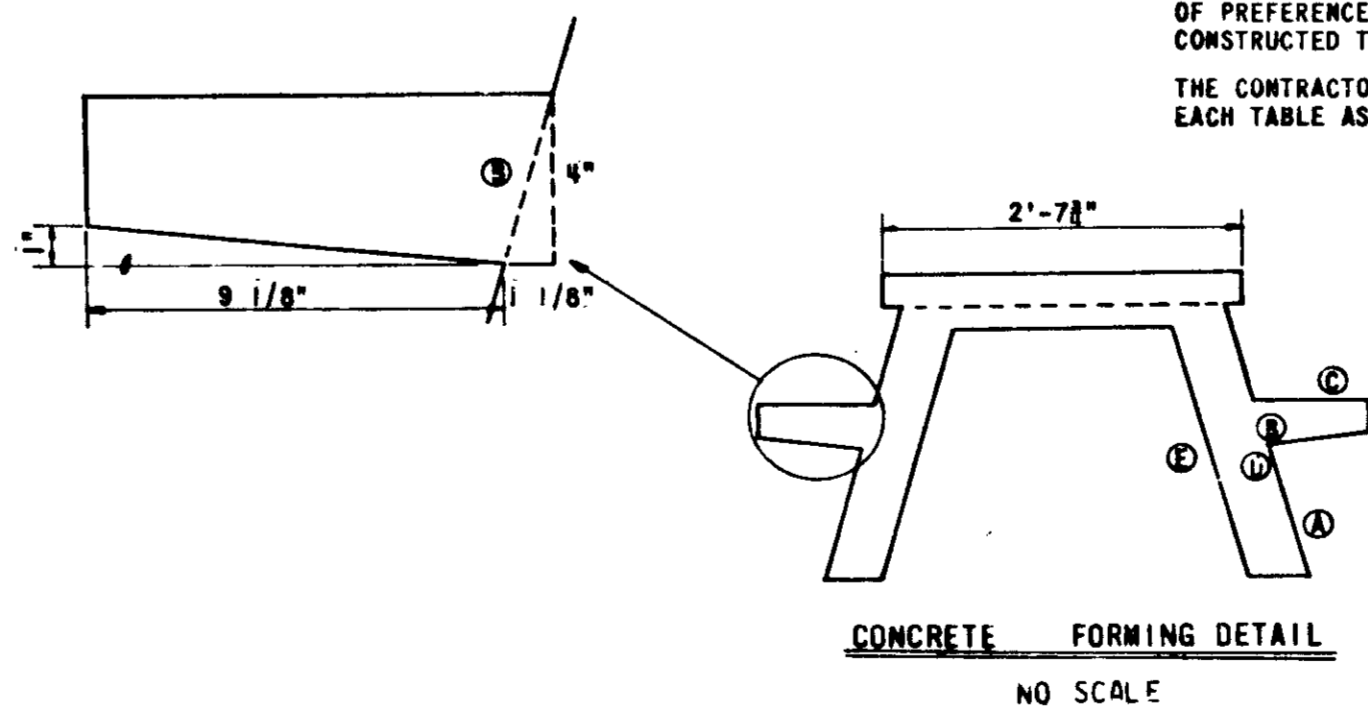


MATERIALS (PICNIC TABLE)		
PCS	SIZE	MATERIAL
5	2"x12" NOM	BOARDS (7'-0" LONG)
16	3/8"-16x5	STAINLESS STEEL CARRIAGE BOLTS W/13/16" DIA. HEAD & HEX. NUTS (COARSE THREAD)
4	3/8"-16x6	STAINLESS STEEL CARRIAGE BOLTS W/13/16" DIA. HEAD & HEX. NUTS (COARSE THREAD)
20	3/8" BOLT SIZE	STAINLESS STEEL FLAT WASHER-.062" THICK
20	3/8" BOLT SIZE	CAP OR ACORN NUT (COARSE THREAD)
4	1/2" Ø	#4 REINFORCING STEEL-PLACED PER DRAWING AND TO HAVE ONE (1) INCH MIN. COVER (26.34 LBS.)
		2 CU. FT. CLASS "A" CONCRETE

BILL OF MATERIALS	
1	CHARCOAL GRILL & PIPE (1 1/2" I.D. 3'-2")
2	1 1/2" I.D. 3'-6" GALVANIZED PIPE (ONE END THREADED)
2	2"x6"x4'6" PLANKS FOR TABLE TOP
2	2"x6"x10 1/2" BOARDS FOR SERVING TABLE
2	1 1/2" FLOOR FLANGES FOR 1 1/2" I.D. PIPE
16	#16x3" BRASS SCREWS

TOPS OF TABLE AND SEATS TO BE MADE OF DOUGLAS FIR, REDWOOD, YELLOW POPLAR, IN ORDER OF PREFERENCE. ALL LUMBER SHALL BE S4S -STD. DK. NO. 1 COMMON OR BETTER. ALL TABLES CONSTRUCTED TO BE OF SAME MATERIAL.

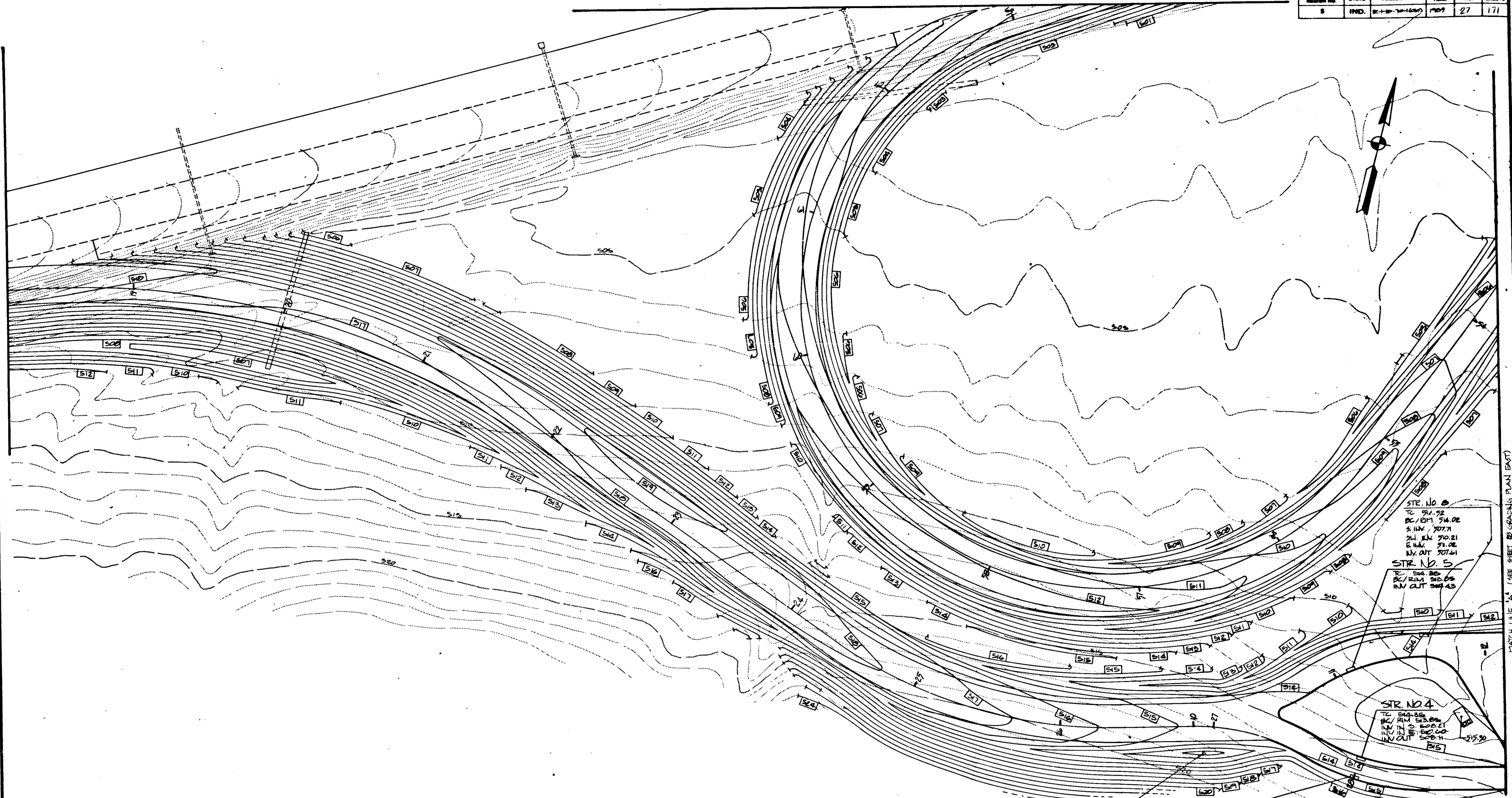
THE CONTRACTOR SHALL PROVIDE A TOTAL OF PICNIC TABLES. CONTRACTOR SHALL POSITION EACH TABLE AS DIRECTED.



DETAILS

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FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IC-10-1-160	1967	27	171



STR. NO. 3
 TC 91.72
 PC/PT 94.02
 S.I.V. 907.71
 21.14 910.21
 E.H.V. 91.02
 IN. OUT 907.61

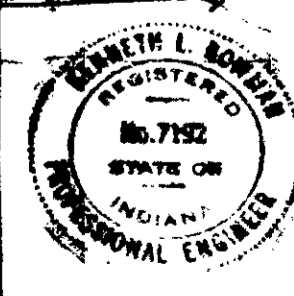
STR. NO. 5
 TC 54.20
 PC/PT 58.85
 IN. OUT 588.45

STR. NO. 4
 TC 54.85
 PC/PT 58.85
 IN. IN 588.21
 IN. OUT 588.00
 IN. OUT 588.11

STR. NO. 1
 RIM EL. 511.50
 INV. OUT 508.75

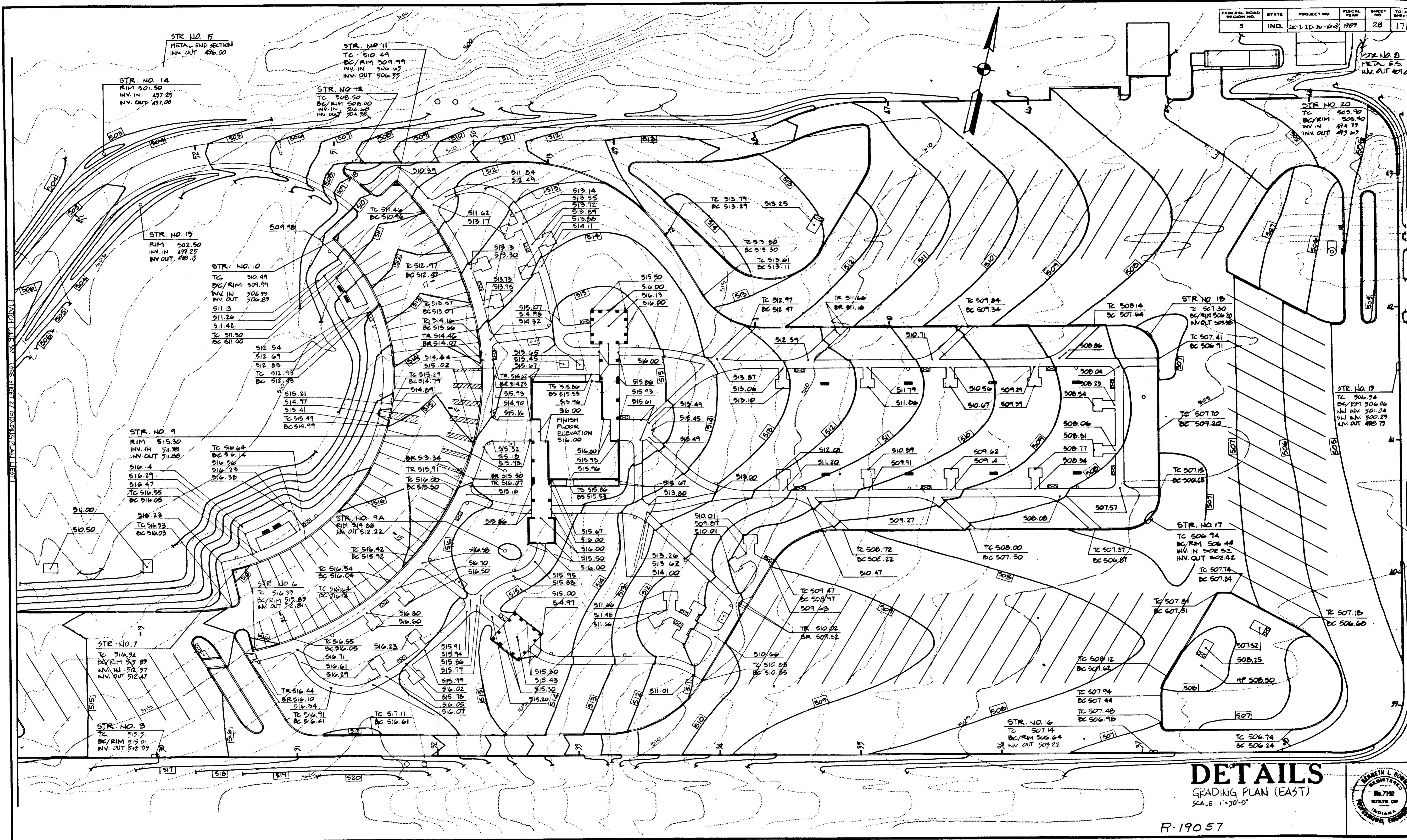
STR. NO. 2
 TC 54.36
 PC/PT 58.85
 IN. IN 588.31
 INV. OUT 588.21

DETAILS
 GRADING PLAN (WEST)
 SCALE: 1"=30'-0"



R-19057

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IC-1-10-70-600	1989	28	171

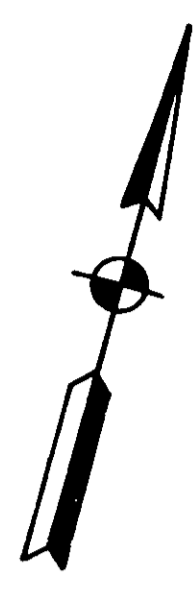
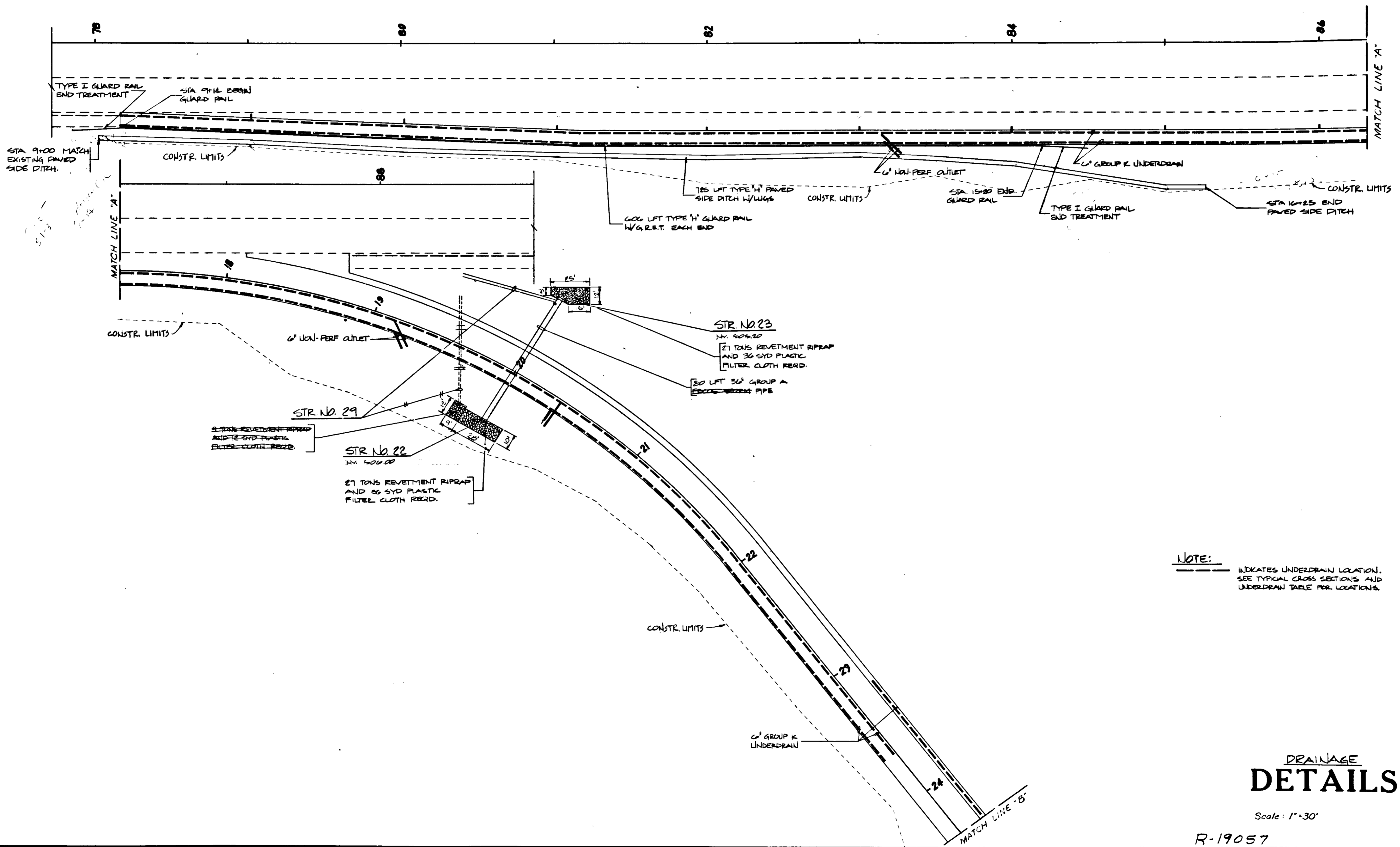


DETAILS
 GRADING PLAN (EAST)
 SCALE: 1"=30'-0"



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FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-112-12-610	1987	29	171



NOTE: INDICATES UNDERDRAIN LOCATION. SEE TYPICAL CROSS SECTIONS AND UNDERDRAIN TABLE FOR LOCATIONS.

DRAINAGE DETAILS

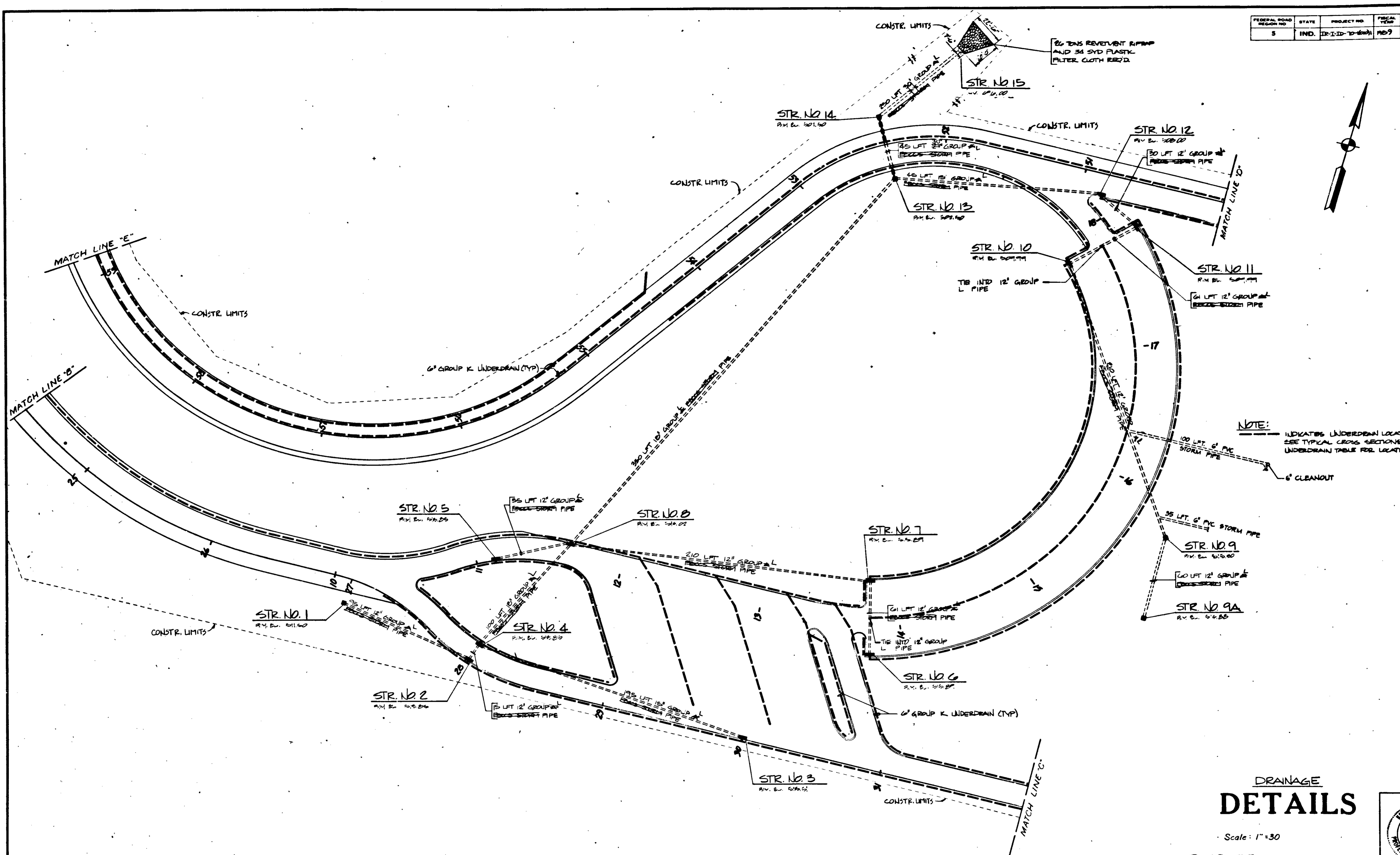
Scale: 1"=30'

R-19057



04002
REX

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-ID-10-600H	69	30	171



NOTE: INDICATES UNDERDRAIN LOCATION. SEE TYPICAL CROSS SECTIONS AND UNDERDRAIN TABLE FOR LOCATIONS.

DRAINAGE DETAILS

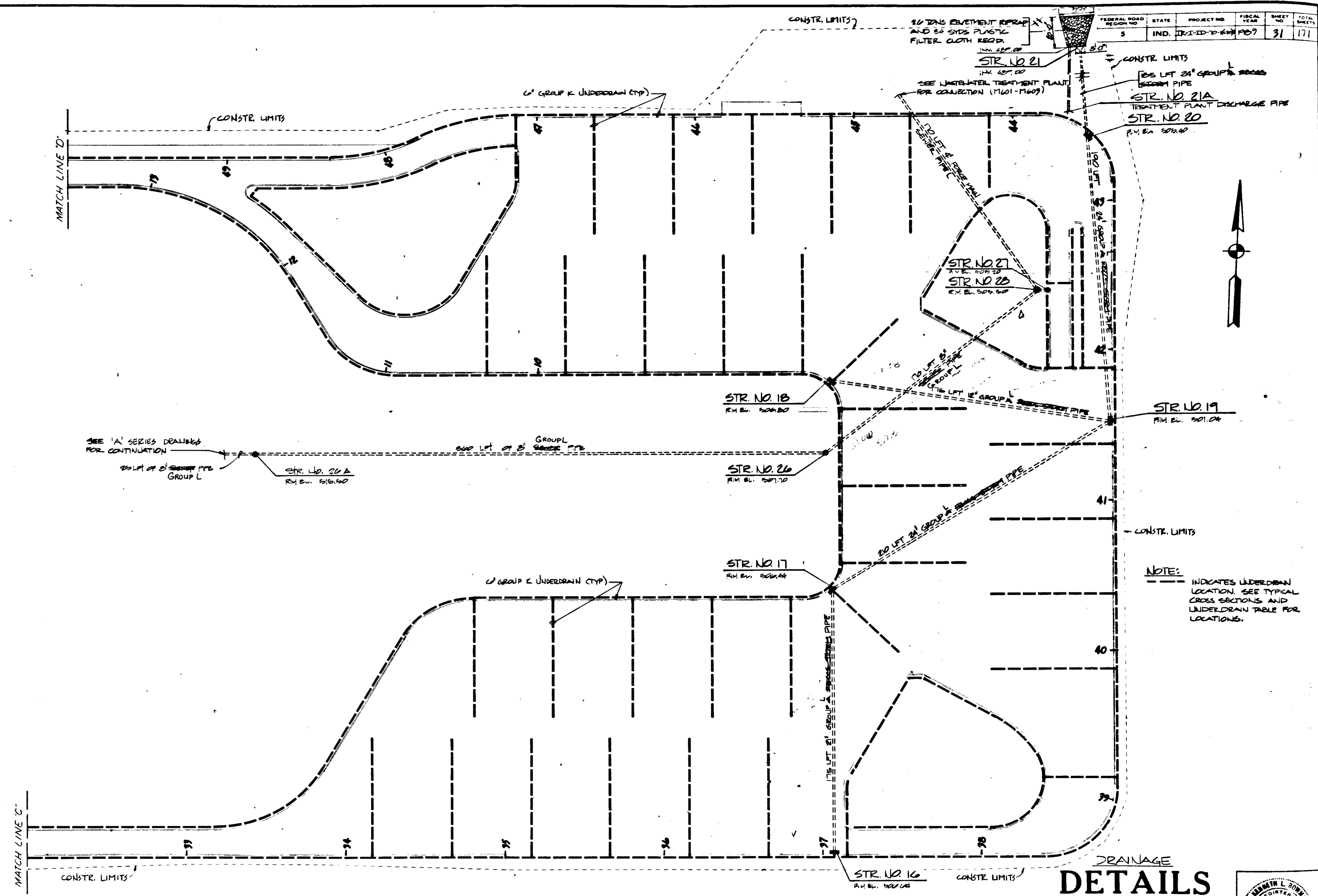
Scale: 1"=30'

R-19057

REVISED 4-27-90 - TWO PIPES EXITING BLDG.



FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IND.	IND-10-10-1009	1969	31	171

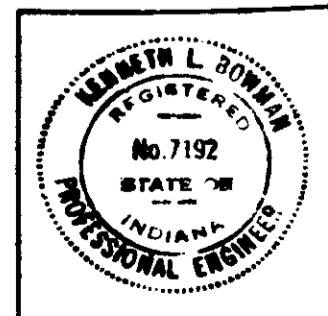


NOTE:
 - - - - - INDICATES UNDERDRAIN LOCATION. SEE TYPICAL CROSS SECTIONS AND UNDERDRAIN TABLE FOR LOCATIONS.

DETAILS

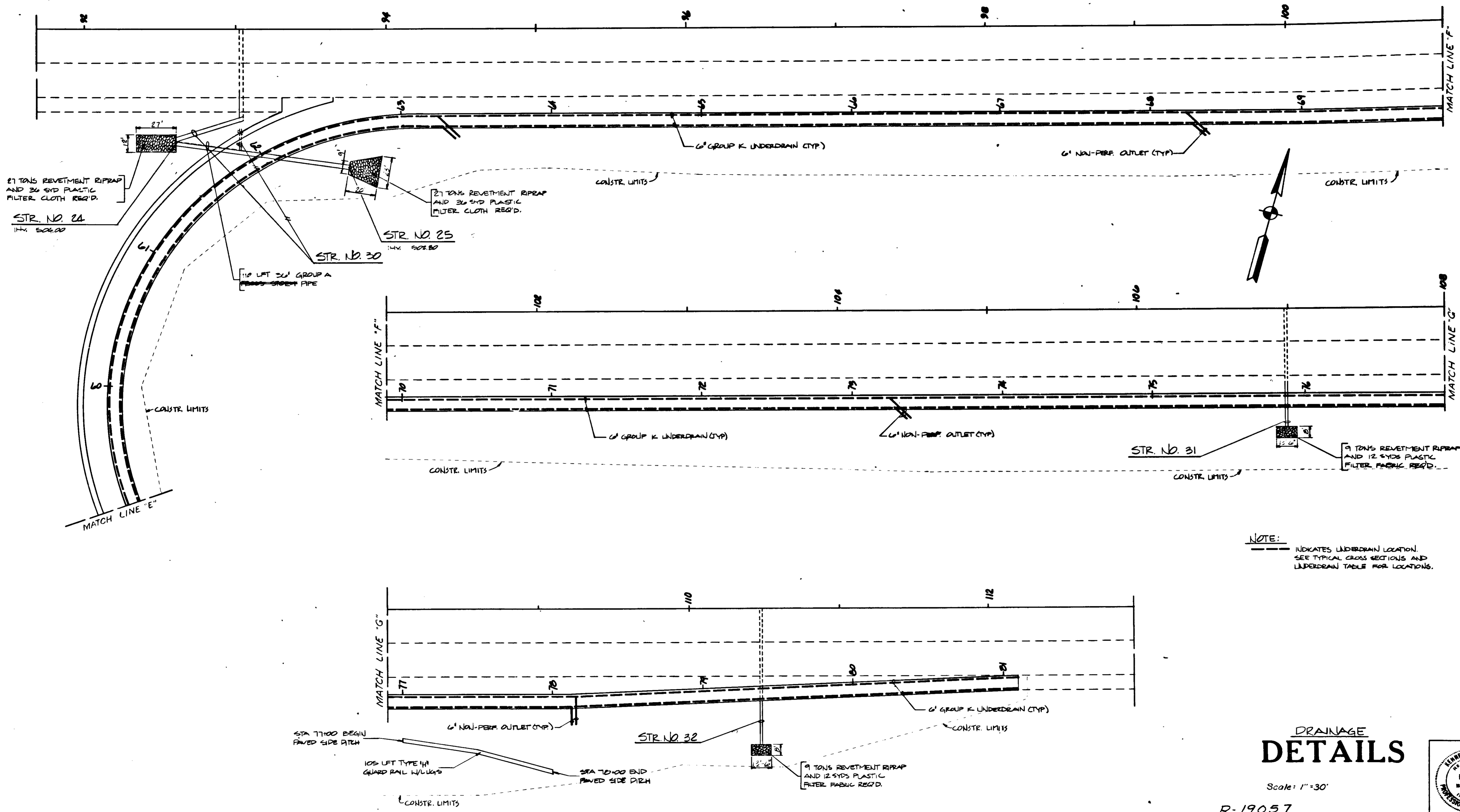
Scale: 1" = 30'

R-19057



04002
RTP

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-111-10-100	1969	32	171

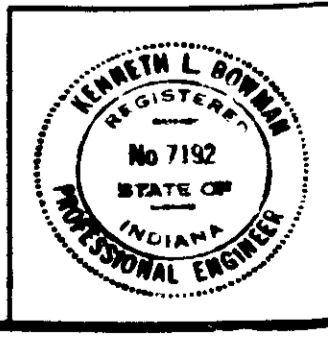


NOTE:
 - - - - - INDICATES UNDERDRAIN LOCATION.
 SEE TYPICAL CROSS SECTIONS AND UNDERDRAIN TABLE FOR LOCATIONS.

DRAINAGE DETAILS

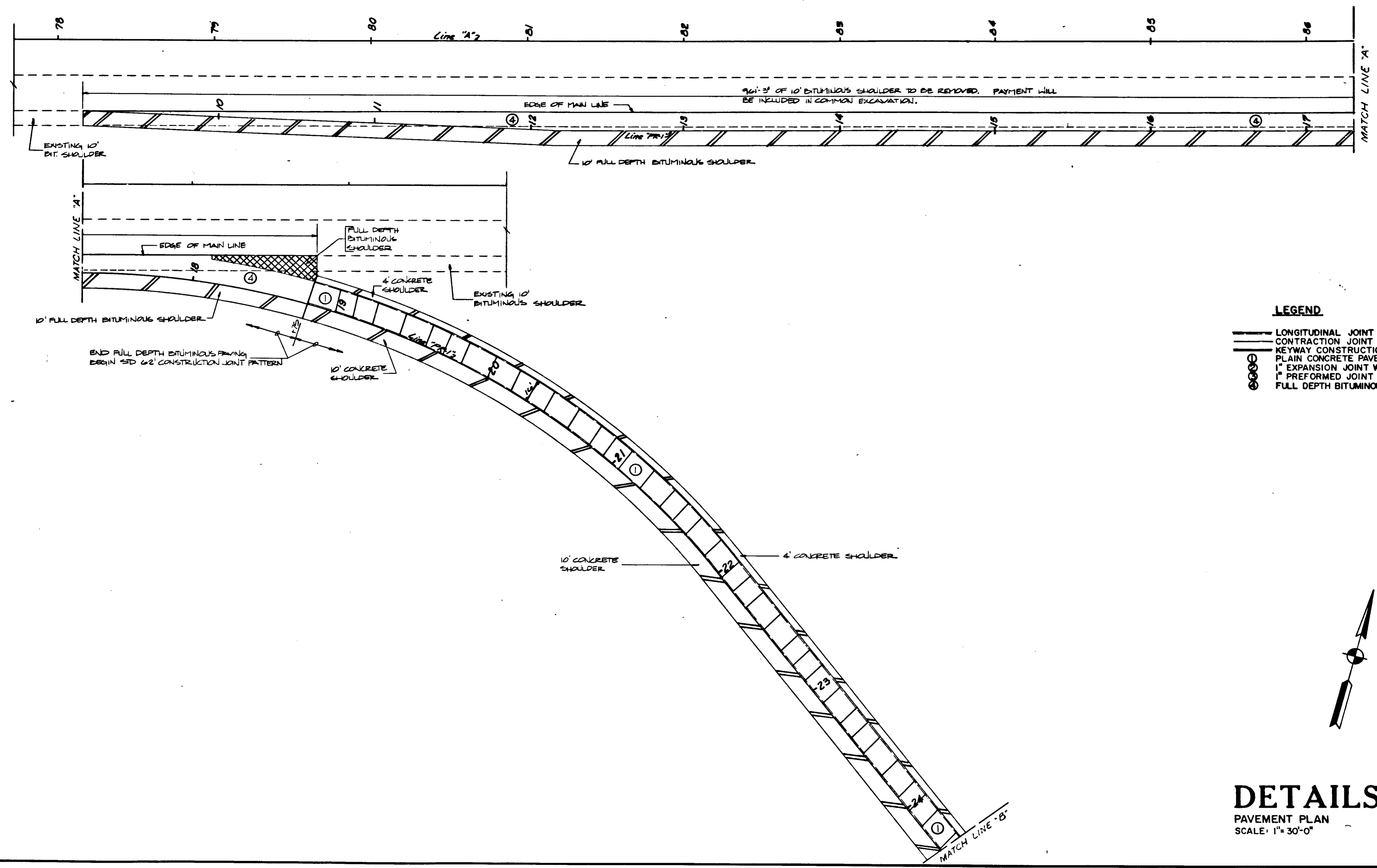
Scale: 1" = 30'

R-19057

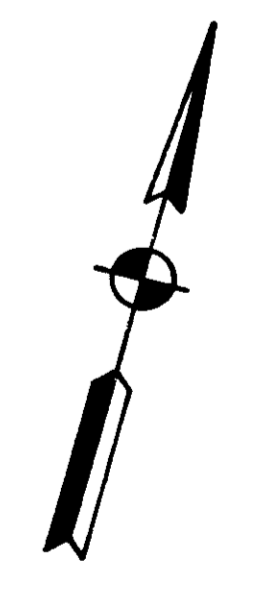


64002
REN

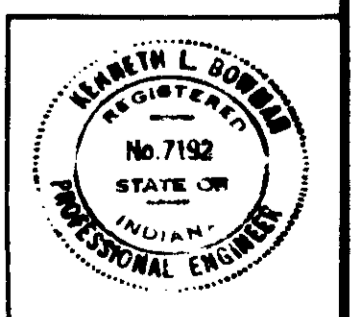
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	2-100-20-600	1989	36	171



- LEGEND**
- LONGITUDINAL JOINT
 - CONTRACTION JOINT TYPE D-1
 - KEYWAY CONSTRUCTION JOINT
 - PLAIN CONCRETE PAVEMENT
 - 1" EXPANSION JOINT WITH LOAD TRANSFER
 - 1" PREFORMED JOINT
 - FULL DEPTH BITUMINOUS PAVING

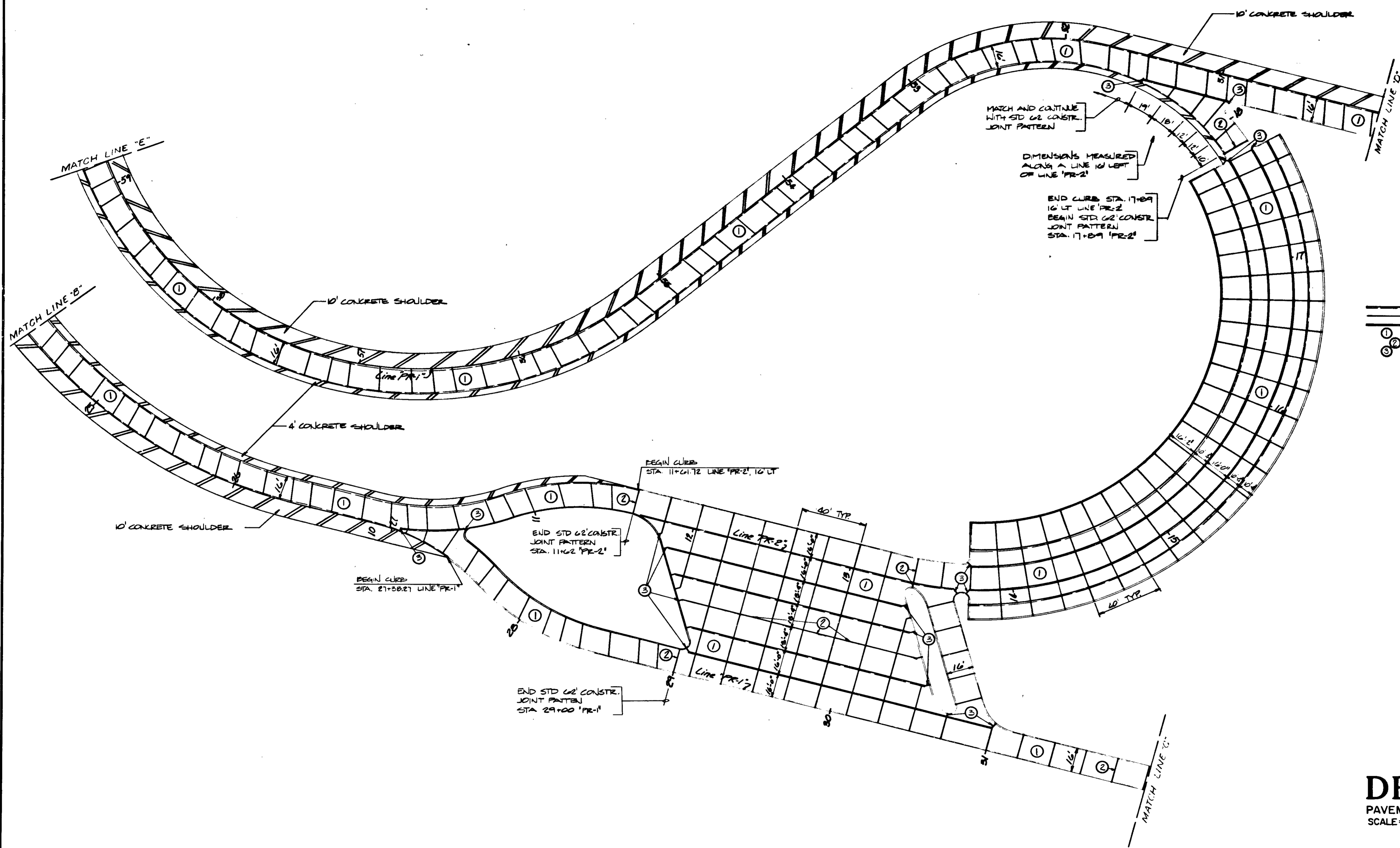


DETAILS
 PAVEMENT PLAN
 SCALE: 1" = 30'-0"

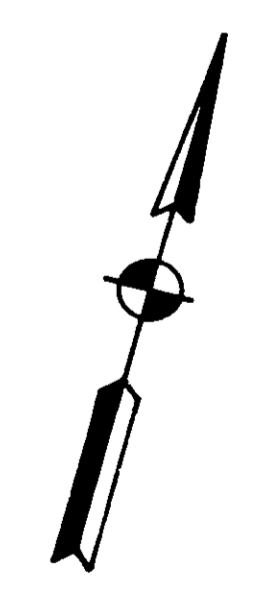


34002
REX
CR

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	23-25-7-1604	1969	37	171



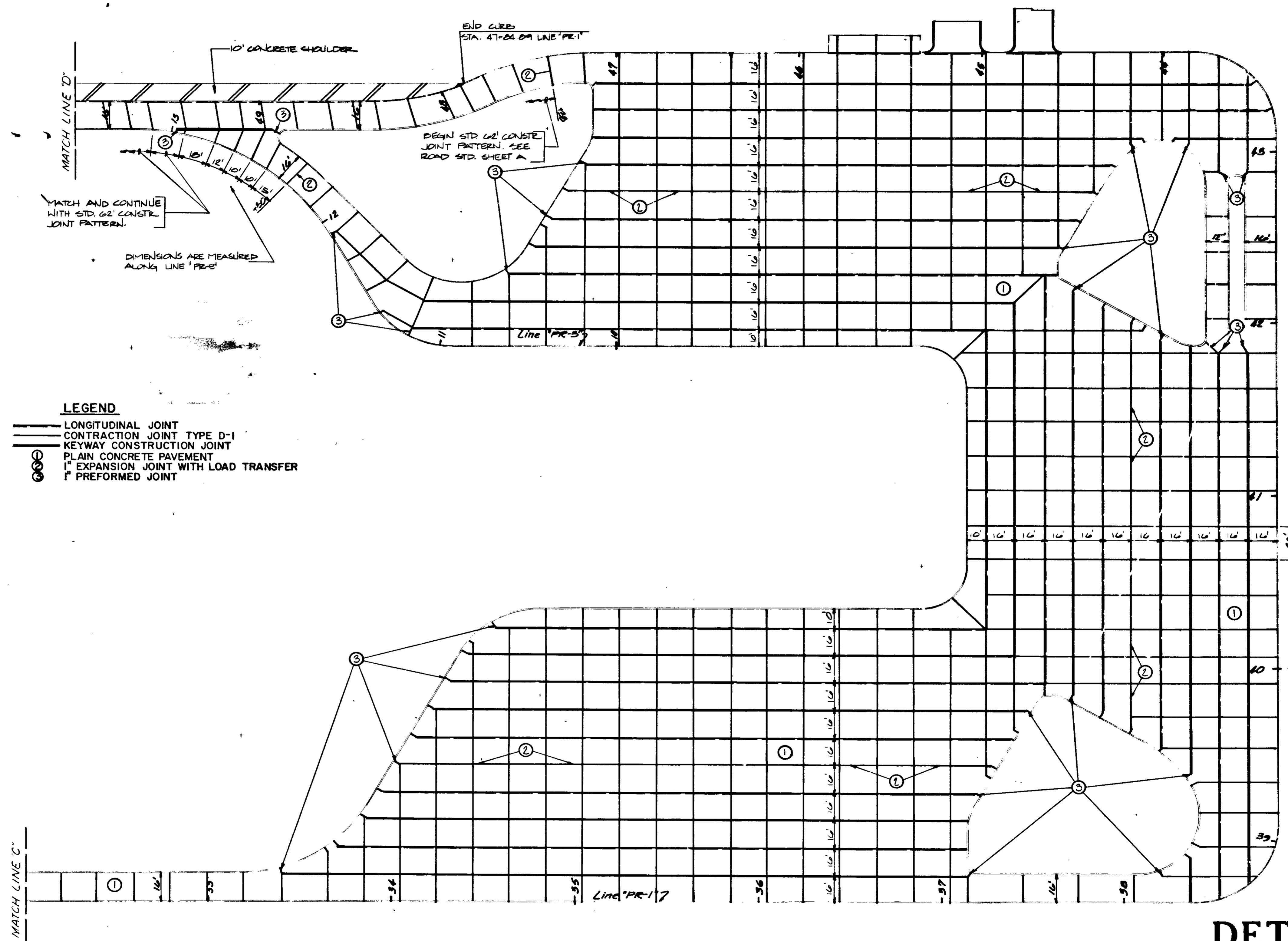
- LEGEND**
- LONGITUDINAL JOINT
 - CONTRACTION JOINT TYPE D-1
 - KEYWAY CONSTRUCTION JOINT
 - ① PLAIN CONCRETE PAVEMENT
 - ② "E" EXPANSION JOINT WITH LOAD TRANSFER
 - ③ "P" PREFORMED JOINT



DETAILS
 PAVEMENT PLAN
 SCALE: 1"=30'-0"



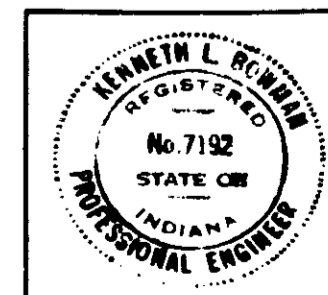
24002
CR

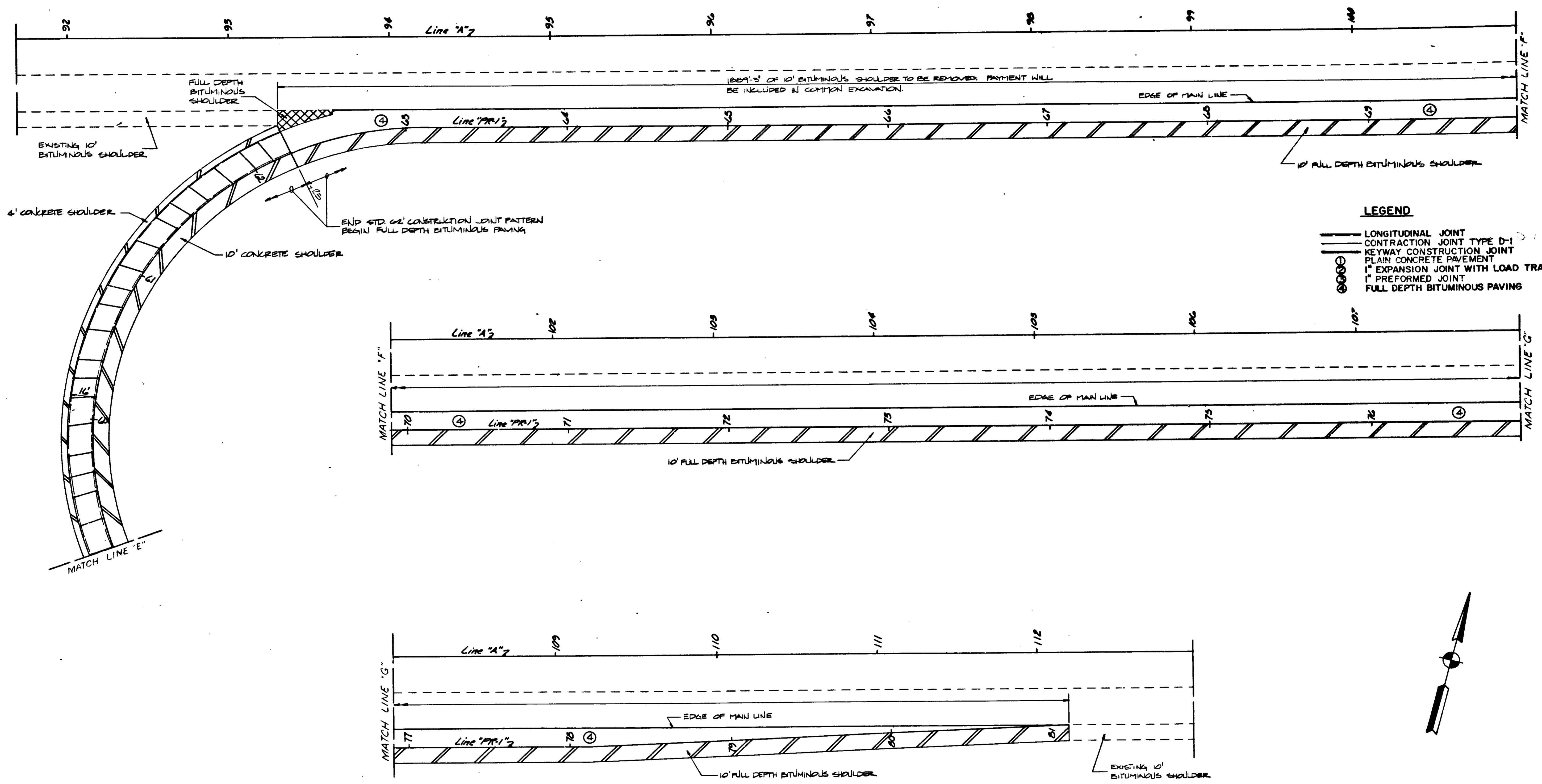


04002
RTA
CR

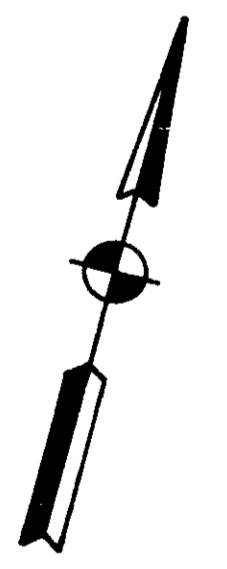
DETAILS

PAVEMENT PLAN
SCALE: 1"=30'-0"

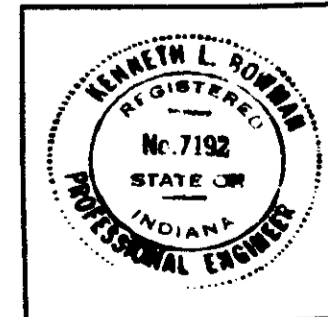




- LEGEND**
- LONGITUDINAL JOINT
 - CONSTRUCTION JOINT TYPE D-1
 - KEYWAY CONSTRUCTION JOINT
 - PLAIN CONCRETE PAVEMENT
 - 1" EXPANSION JOINT WITH LOAD TRANSFER
 - PREFORMED JOINT
 - FULL DEPTH BITUMINOUS PAVING



DETAILS
PAVEMENT PLAN
SCALE: 1" = 30'-0"



24002
REN
CR

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-10-70-1619	1979	40	171

85

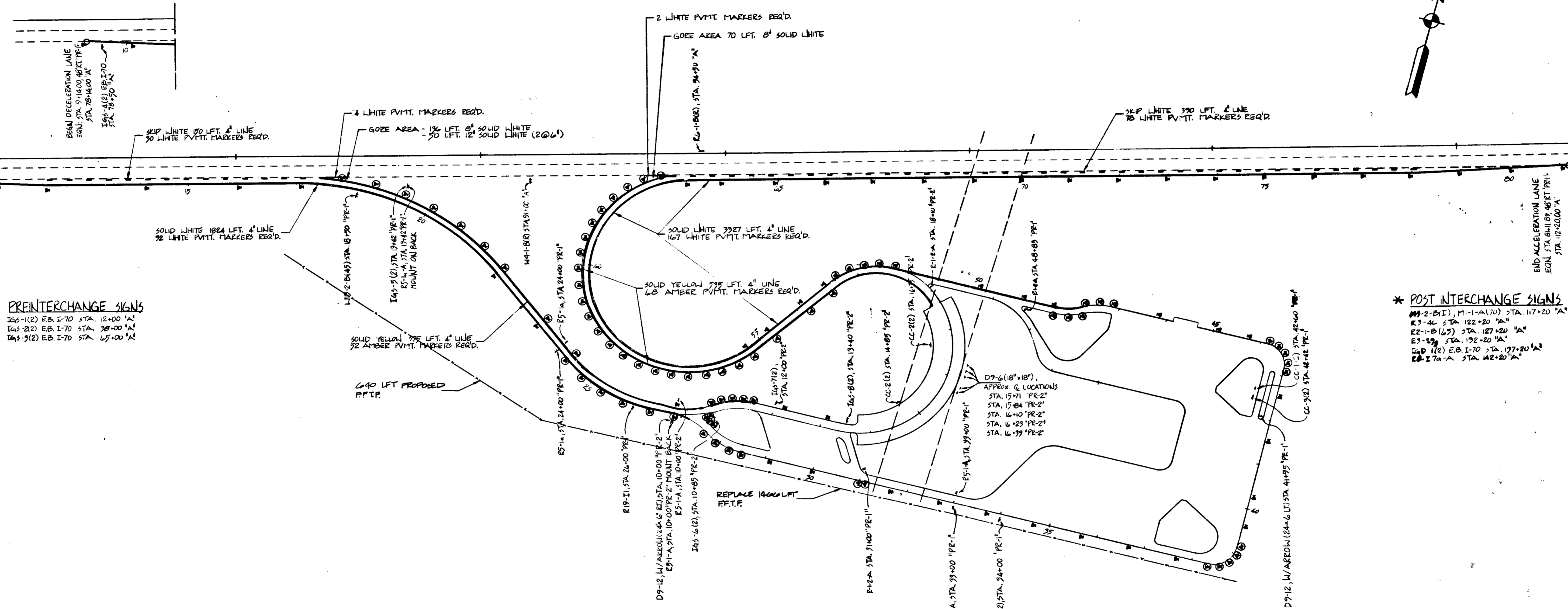
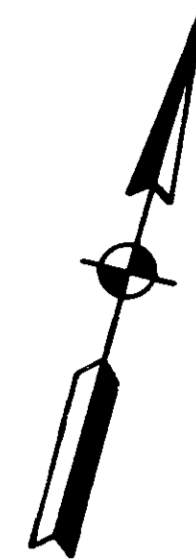
90

95

100

105

110



PREINTERCHANGE SIGNS
 I65-1(2) EB, I-70 STA. 12+00 "A"
 I65-2(2) EB, I-70 STA. 28+00 "A"
 I65-3(2) EB, I-70 STA. 65+00 "A"

*** POST INTERCHANGE SIGNS**
 M1-1-A(70) STA. 117+20 "A"
 R3-4C STA. 122+20 "A"
 E2-1-B(65) STA. 127+20 "A"
 E3-1(2) STA. 132+20 "A"
 I65-1(2) EB, I-70 STA. 137+20 "A"
 E2-1-7a-A STA. 142+20 "A"

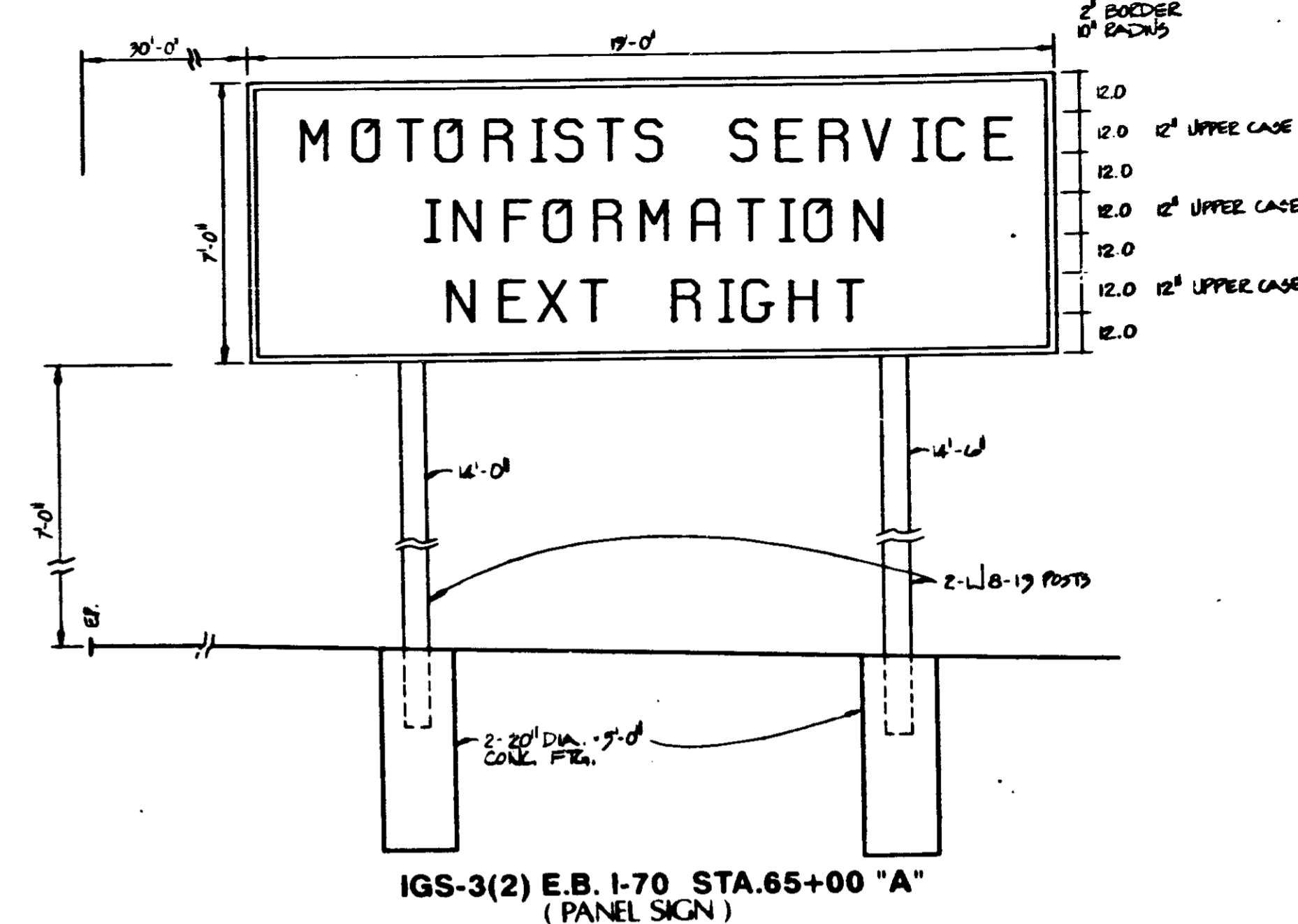
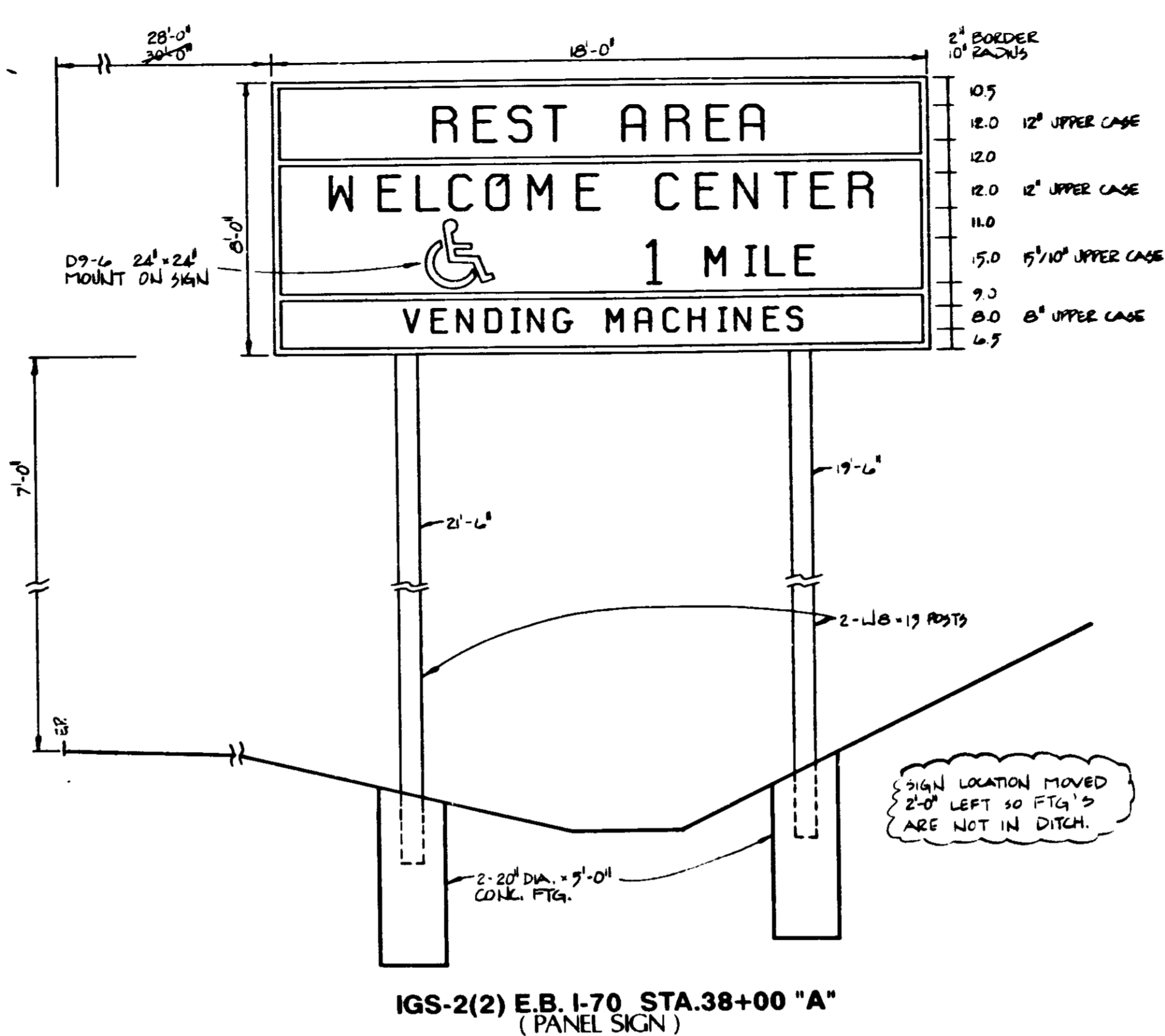
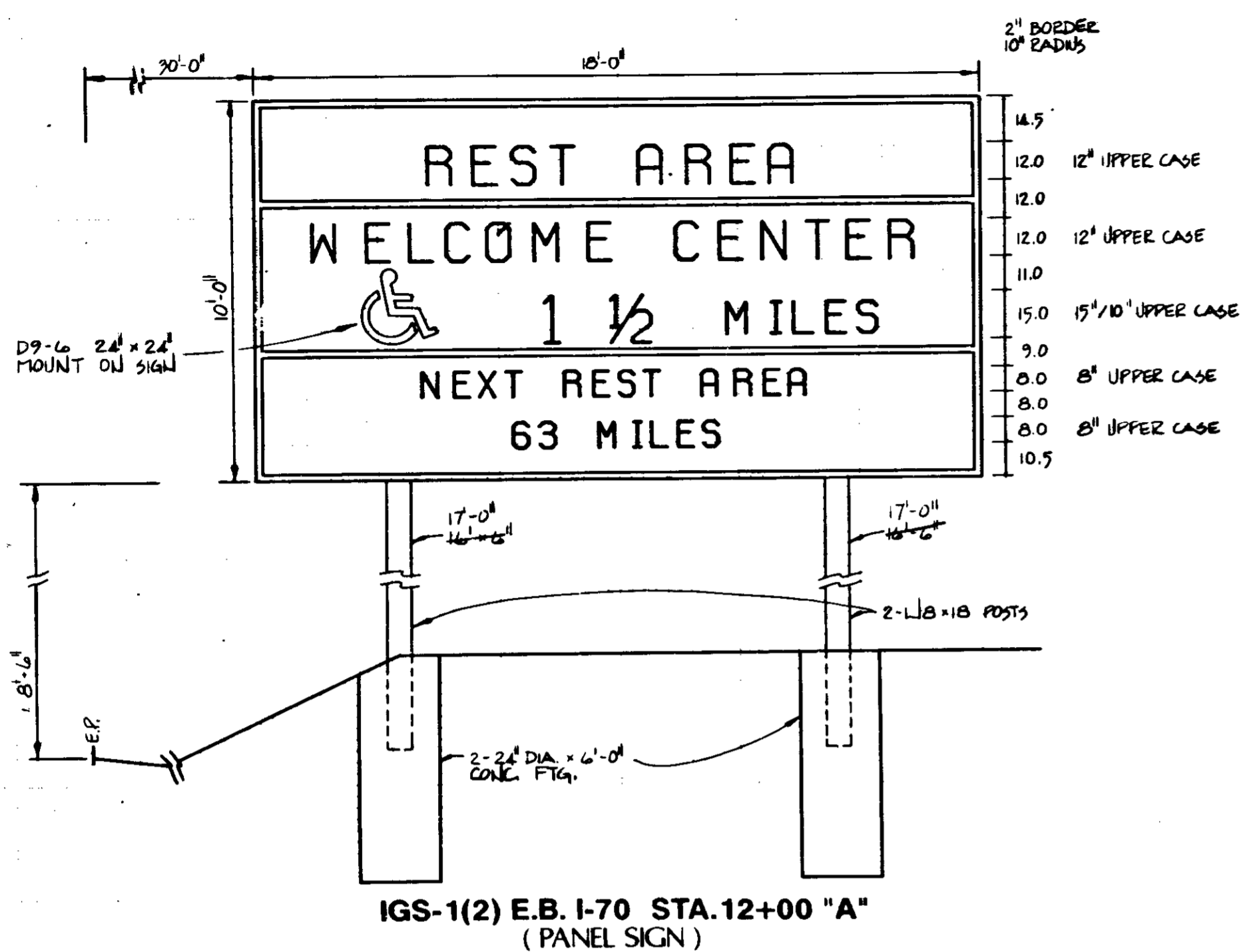
*** NOTE:** 1) CONTRACTOR IS TO VERIFY STATION AT THE END OF ACCELERATION LANE AND ADJUST POST INTERCHANGE SIGNING ACCORDINGLY. (500' SPACING).
 2) SEE SHEETS 41 & 42 FOR PANEL AND SHEET SIGN DETAILS.
 ▣ - TYPE D-1 DELINEATOR POSTS WHITE
 ● - TYPE D-1 DELINEATOR POSTS AMBER

DETAILS
 DELINEATORS & SIGNS
 Scale: 1" = 100'

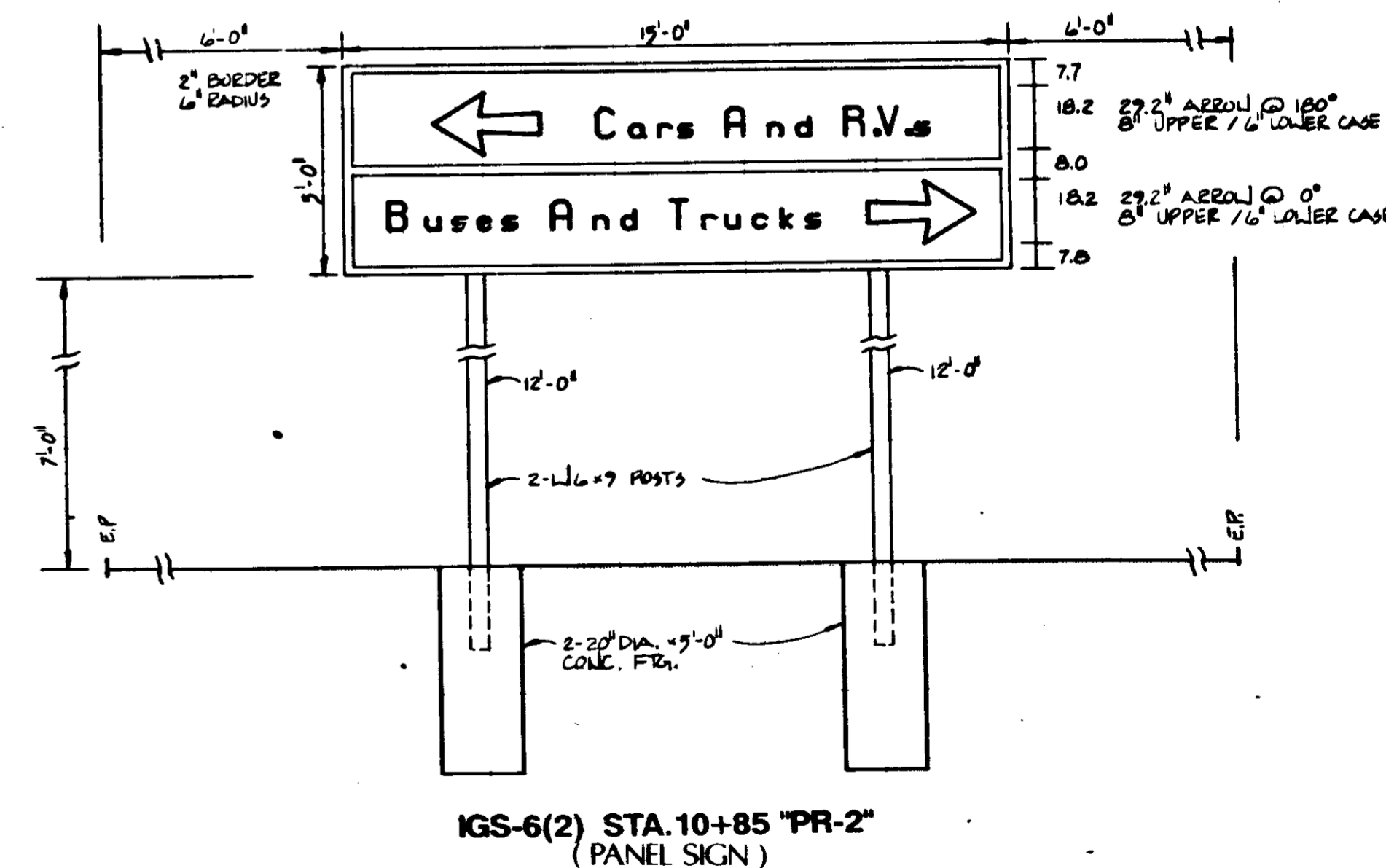
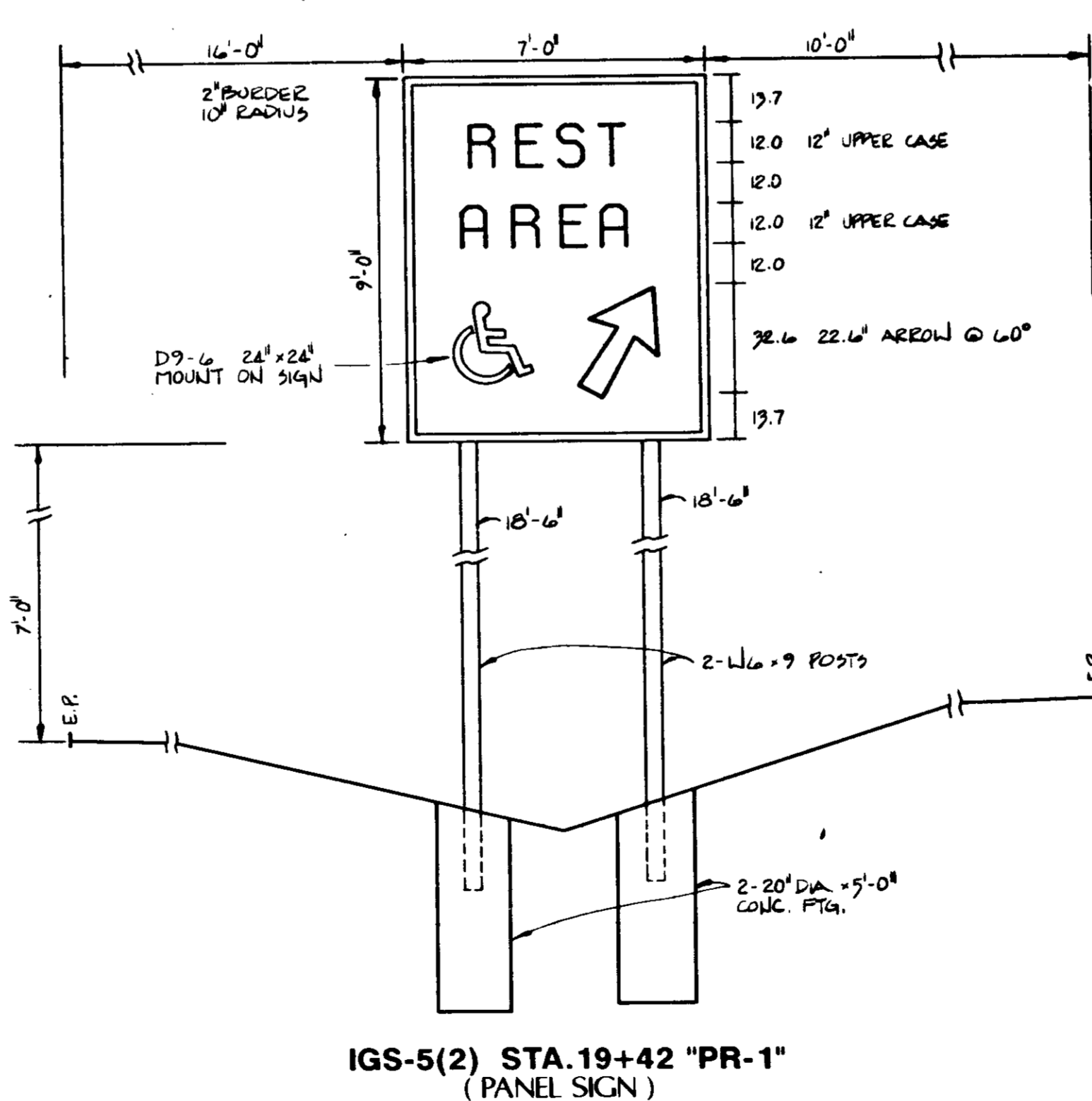
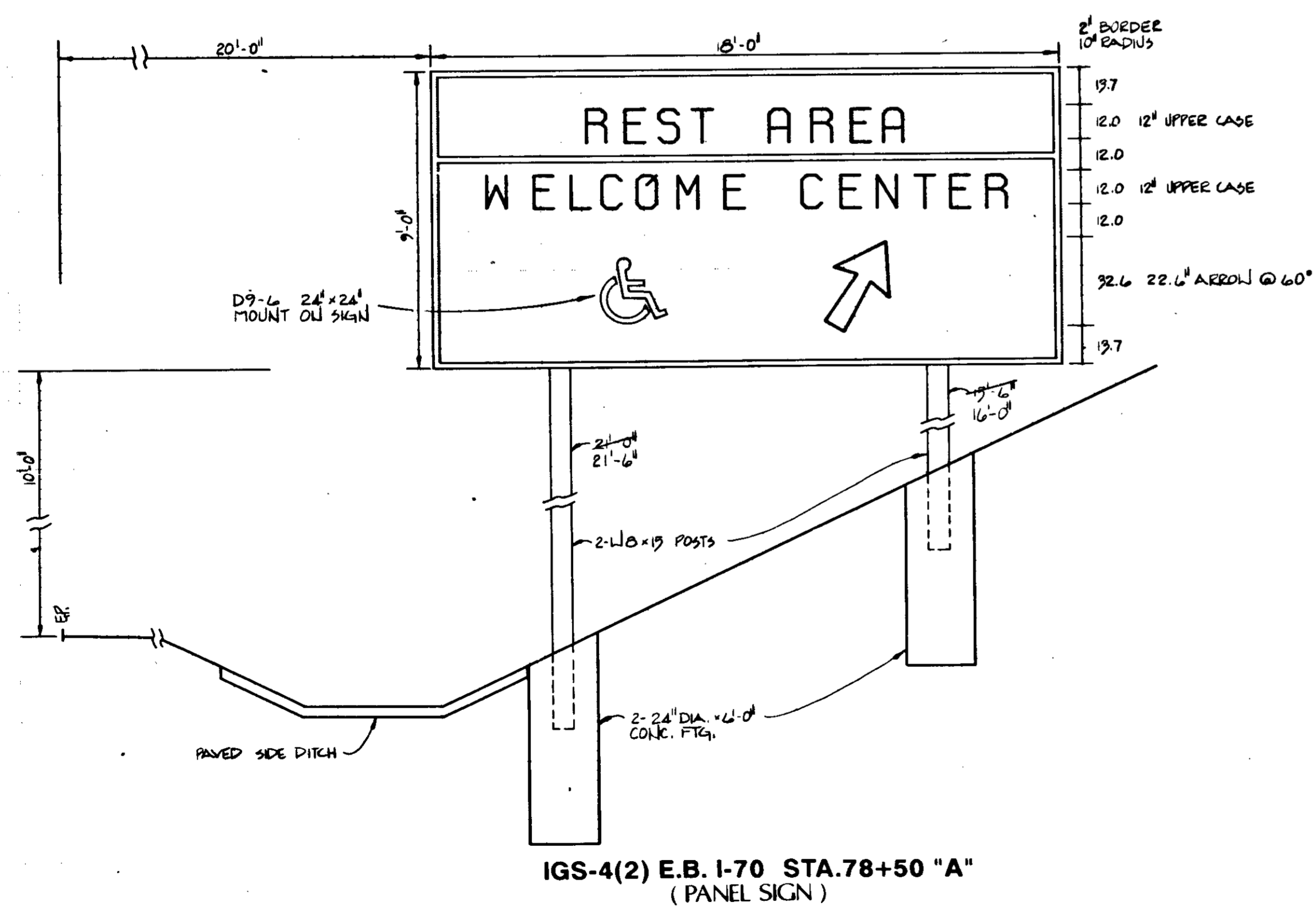


FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	22-1-1D-70-1600	1989	41	171

DATE	BY



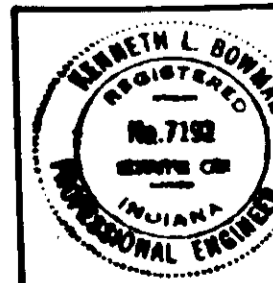
DATE	BY



- NOTE:**
- 1) FIELD VERIFY ALL CROSS SECTIONS PRIOR TO CONSTRUCTION.
 - 2) SEE SHEET #2 FOR LOCATION OF SHEET & PANEL SIGNS.
 - 3) POST LENGTHS FOR PANEL SIGNS DO NOT INCLUDE STUB LENGTHS.

DETAILS

PANEL & SHEET SIGNS
NOT TO SCALE

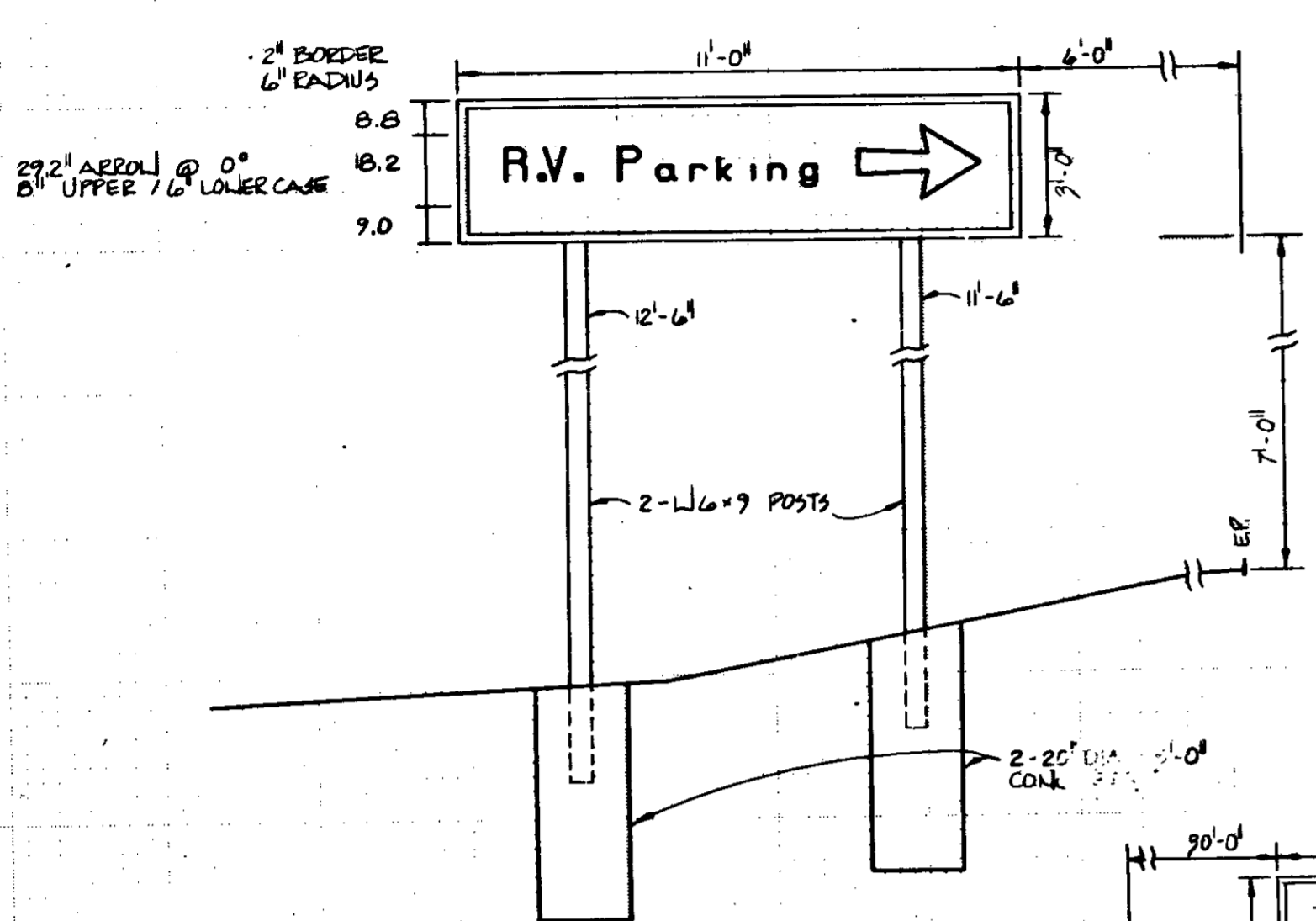


R-19057

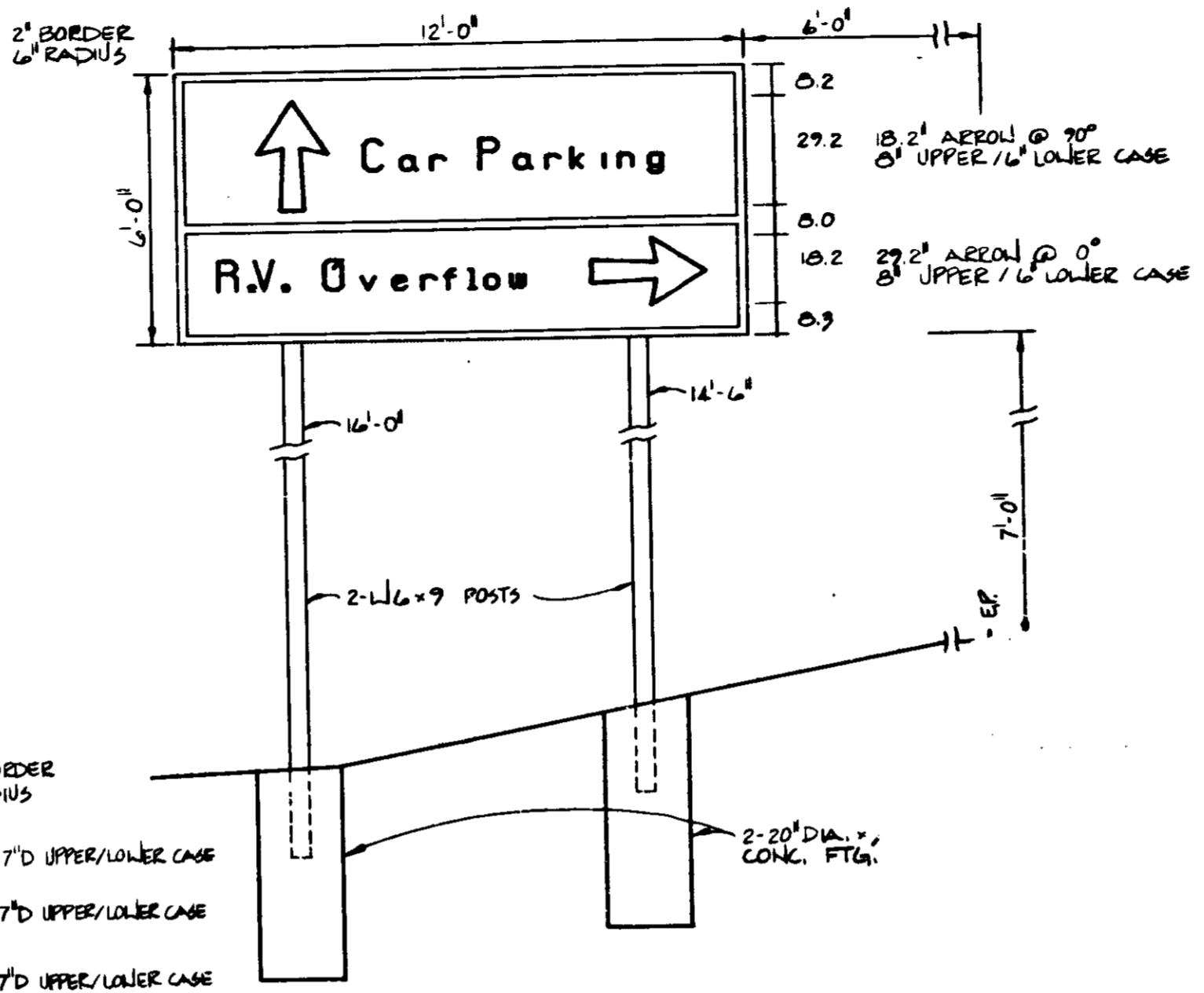
REVISIONS: NOV 14, 1989 SIGN HEIGHT + LOCATION

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 FINAL SURVEY: _____
 NOTE BOOK NO.: _____
 AREAS CHECKED: _____

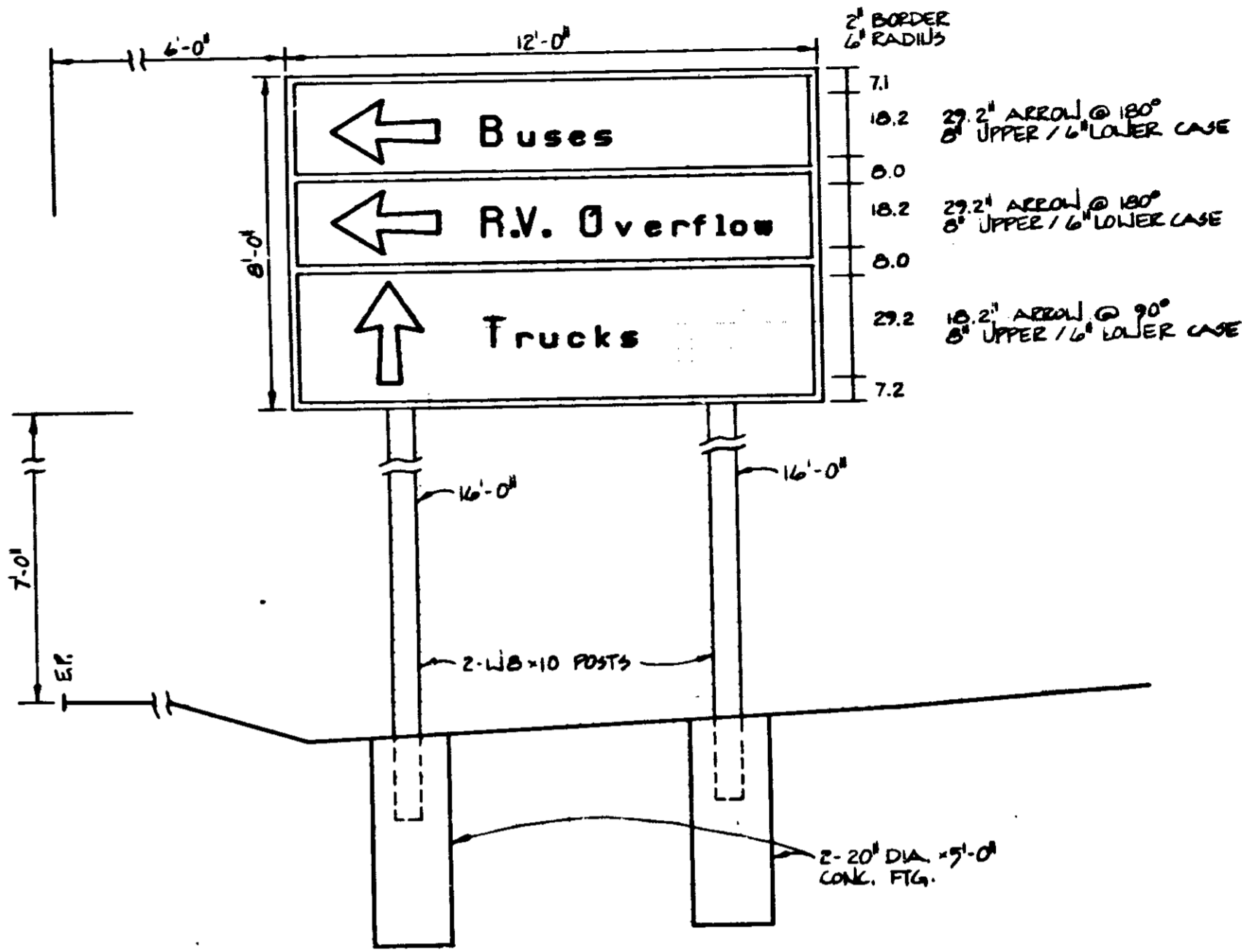
DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 ORIGINAL SURVEY: _____
 NOTE BOOK NO.: _____
 AREAS CHECKED: _____



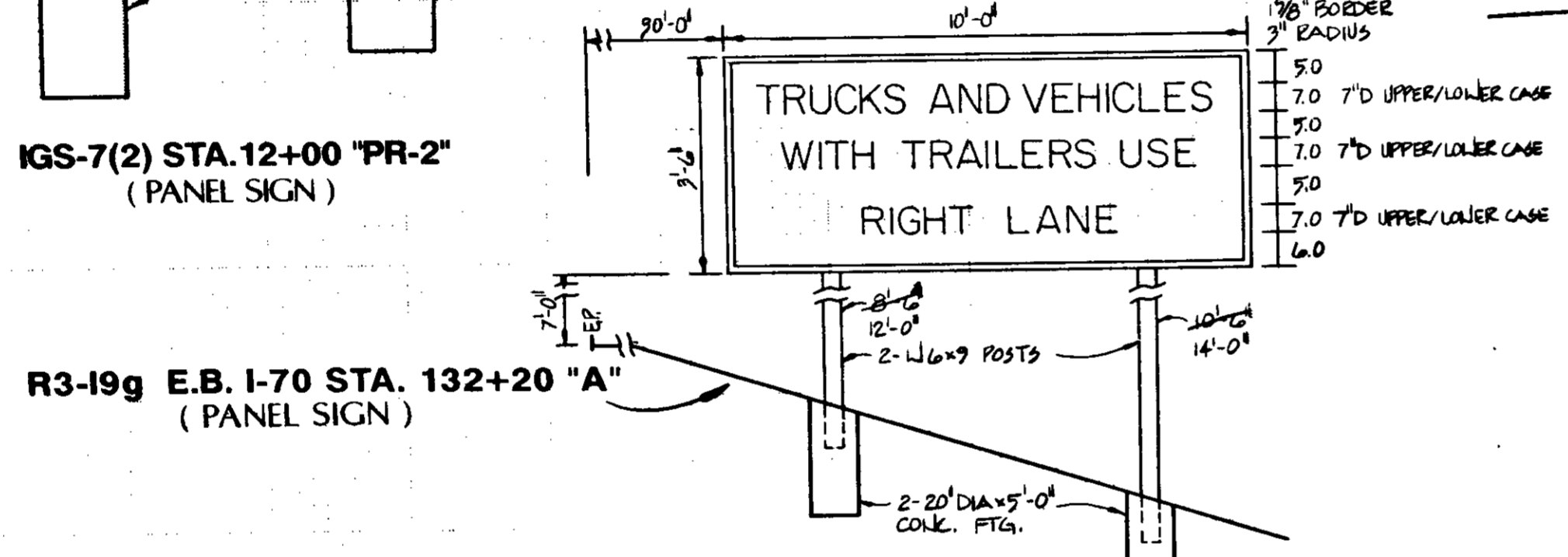
IGS-7(2) STA.12+00 "PR-2"
(PANEL SIGN)



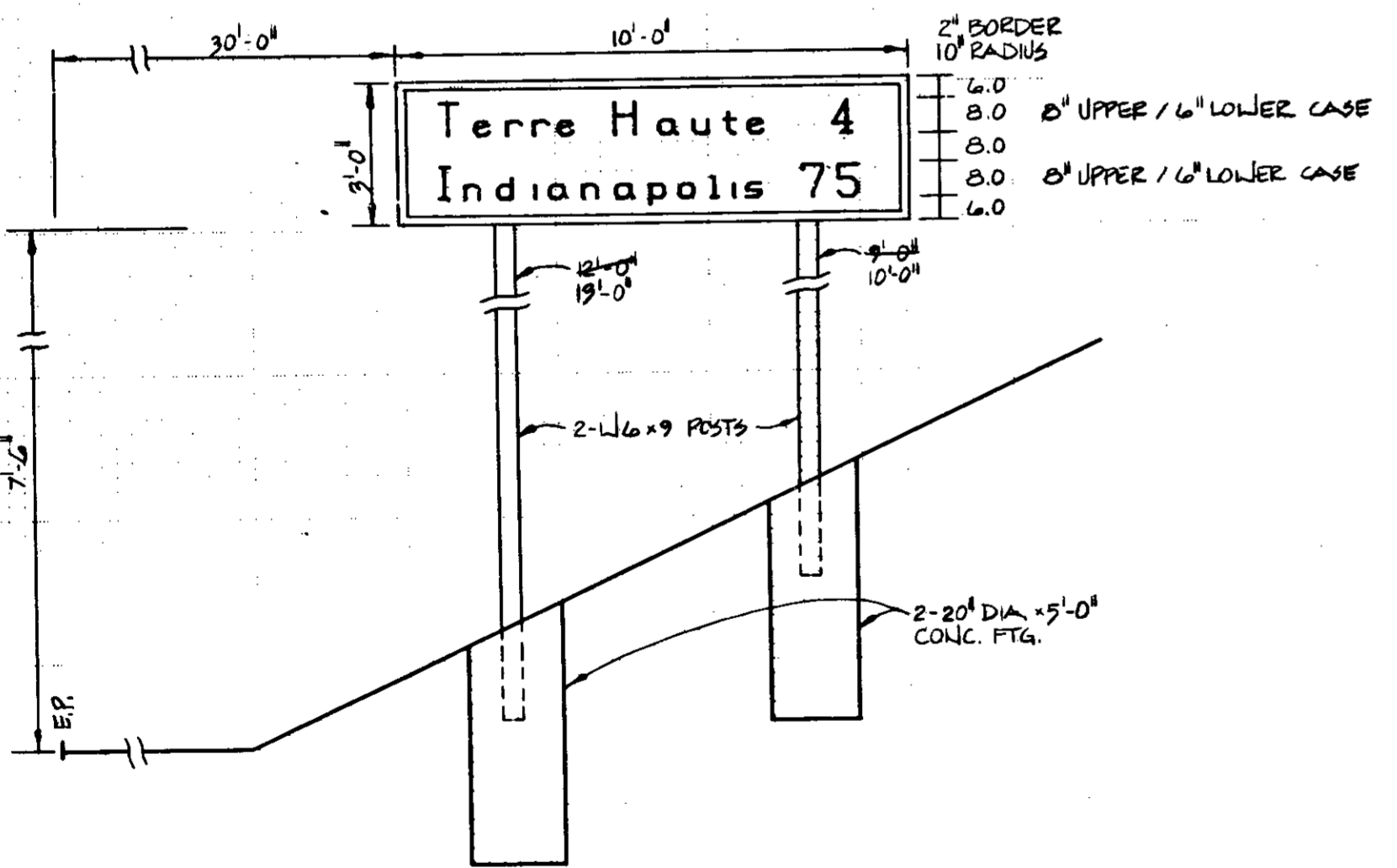
IGS-8(2) STA.13+40 "PR-2"
(PANEL SIGN)



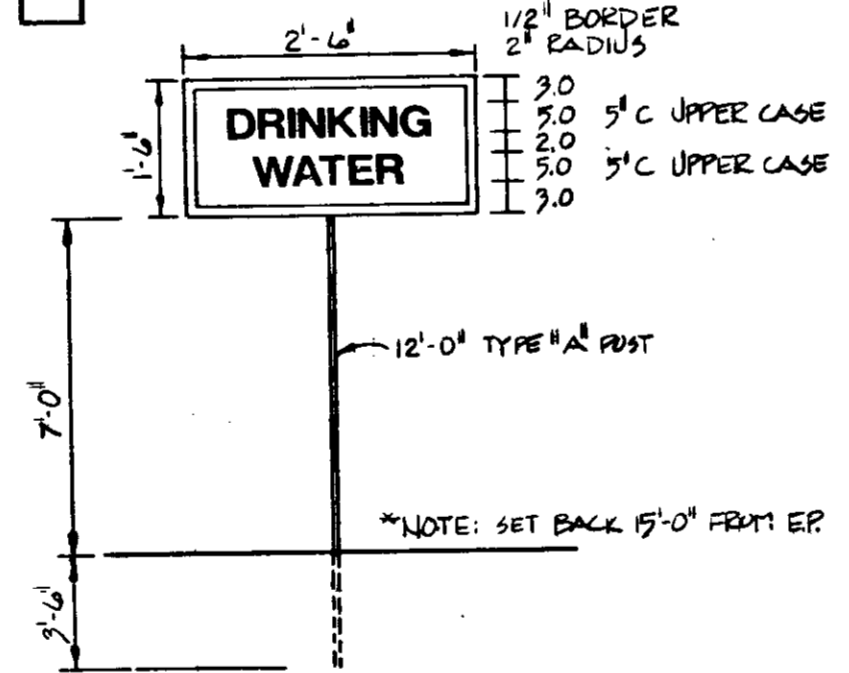
IGS-9(2) STA.34+00 "PR-1"
(PANEL SIGN)



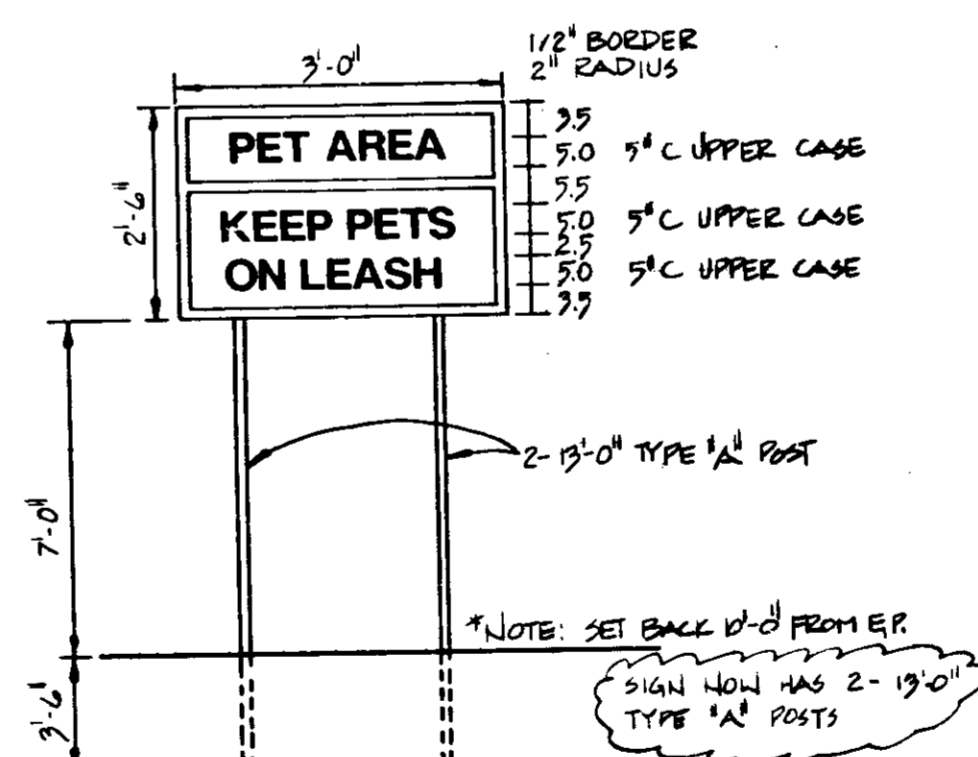
R3-19g E.B. I-70 STA. 132+20 "A"
(PANEL SIGN)



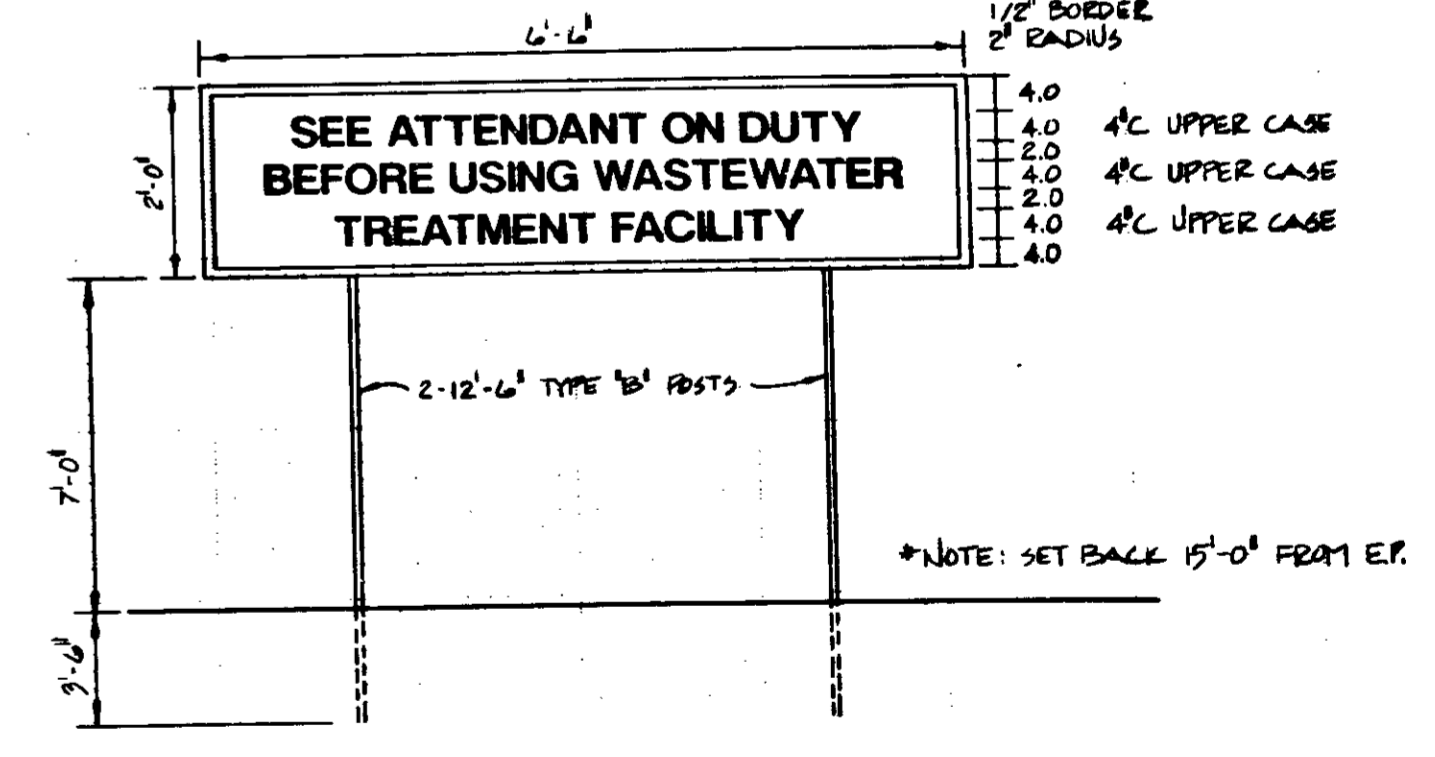
IGD-1(2) E.B. I-70 STA.137+20 "A"
(PANEL SIGN)



CC-1(2) STA.42+60 "PR-1"
(SHEET SIGN)



CC-2(2) STA.14+85 "PR-2"
CC-2(2) STA.16+75 "PR-2"
(SHEET SIGN)



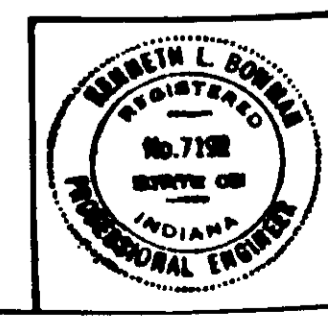
CC-3(2) STA.42+42 "PR-1"
(SHEET SIGN)

- NOTE:
- 1) FIELD VERIFY ALL CROSS SECTIONS PRIOR TO CONSTRUCTION.
 - 2) SEE SHEET 42 FOR LOCATION OF SHEET & PANEL SIGNS.
 - 3) POST LENGTHS FOR PANEL SIGNS DO NOT INCLUDE STUD LENGTHS.
 - 4) ALL SHEET SIGNS WHITE (REF)/BLUE.

DETAILS

PANEL & SHEET SIGNS NOT TO SCALE

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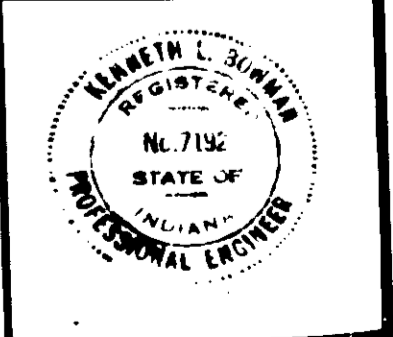


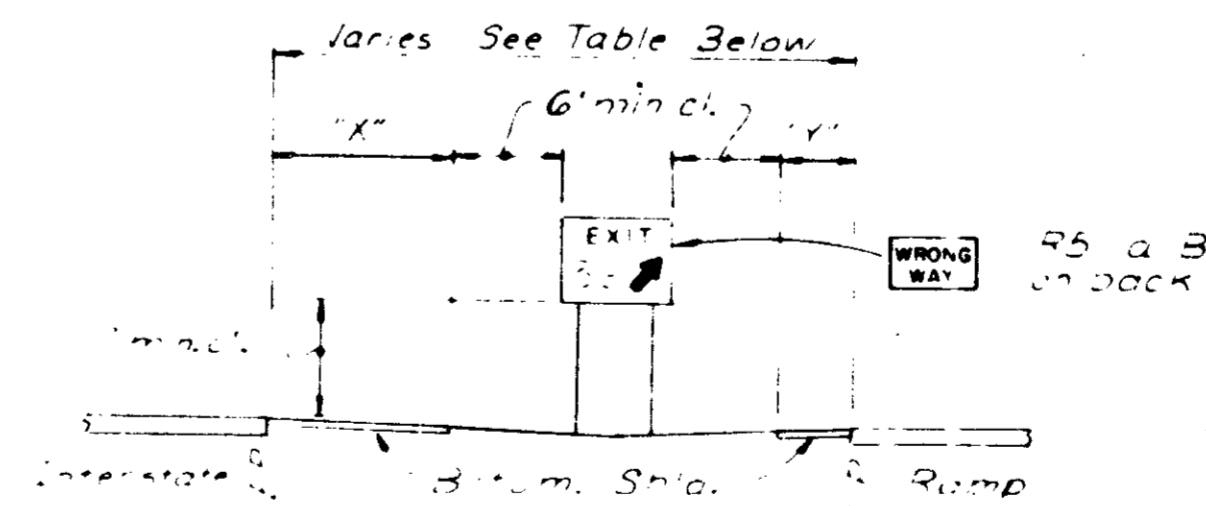
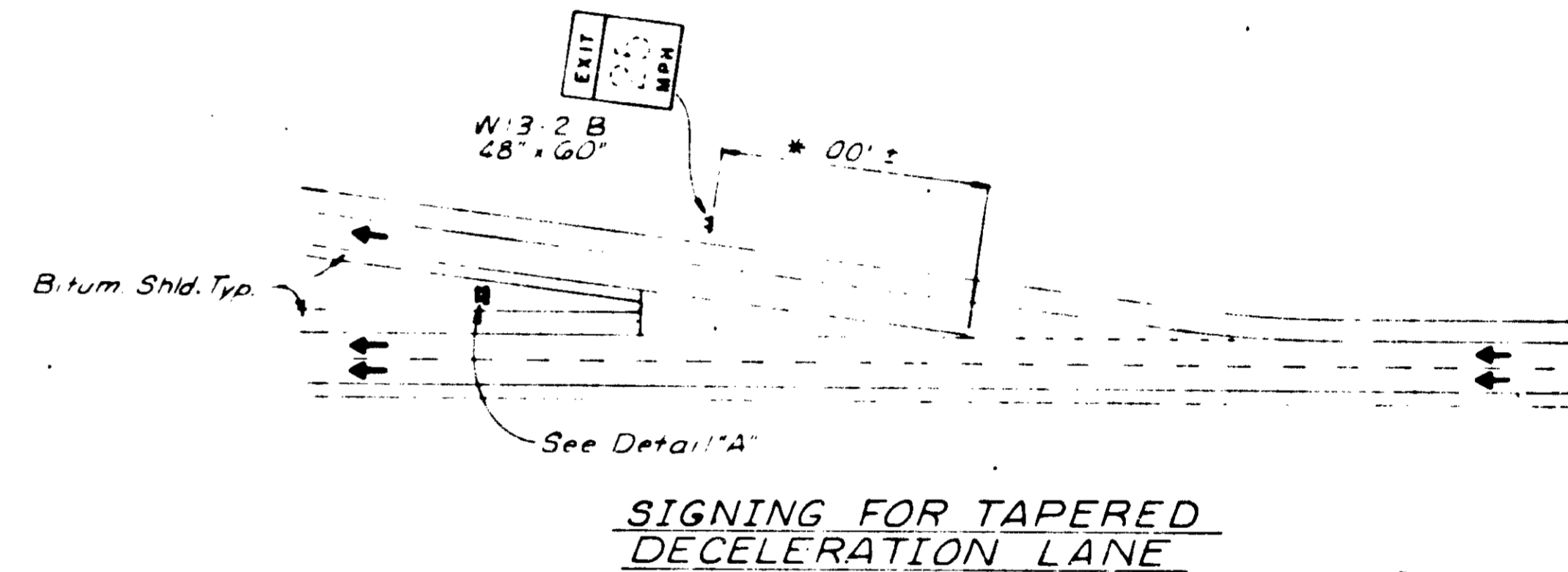
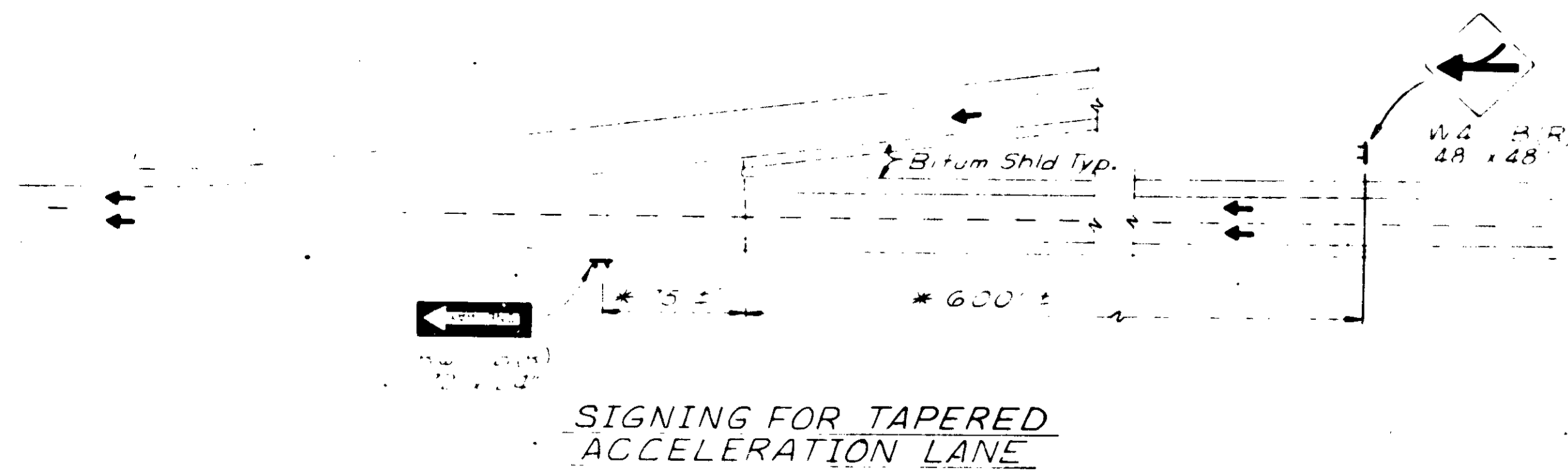
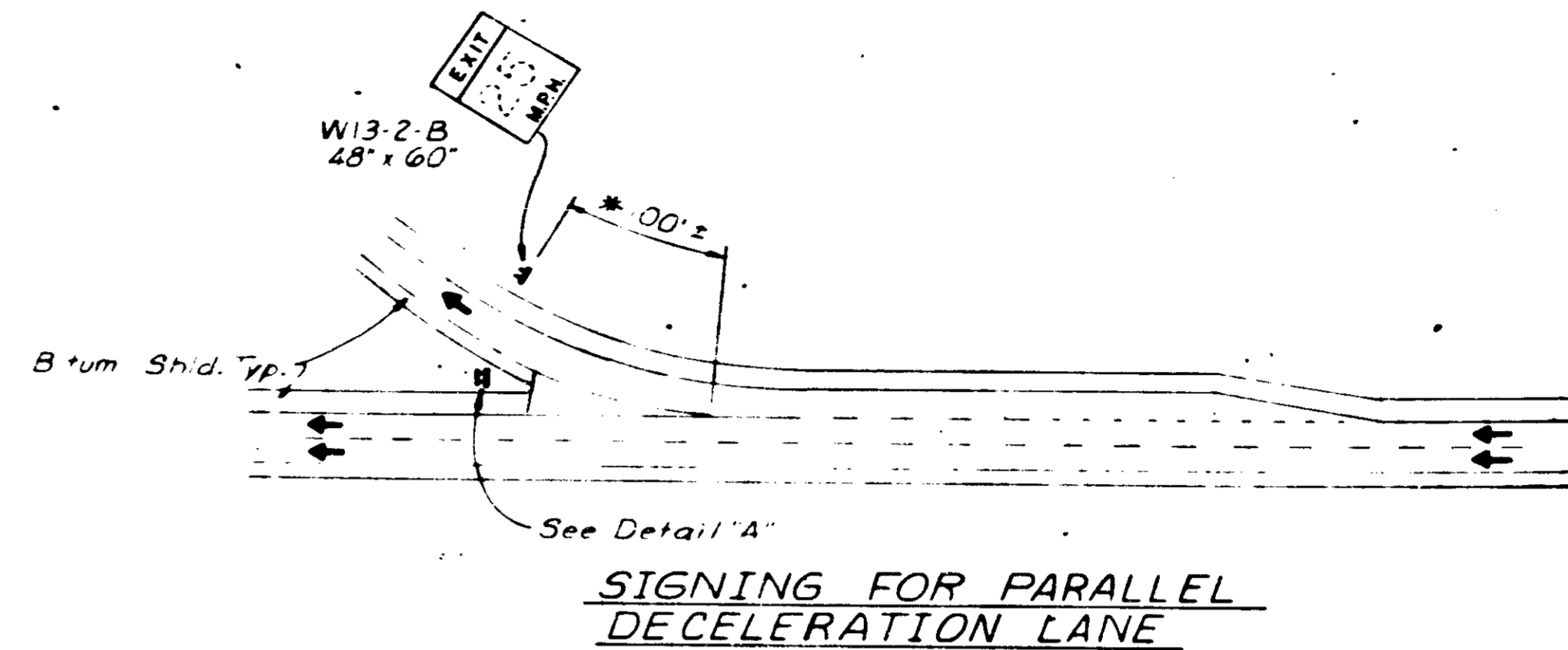
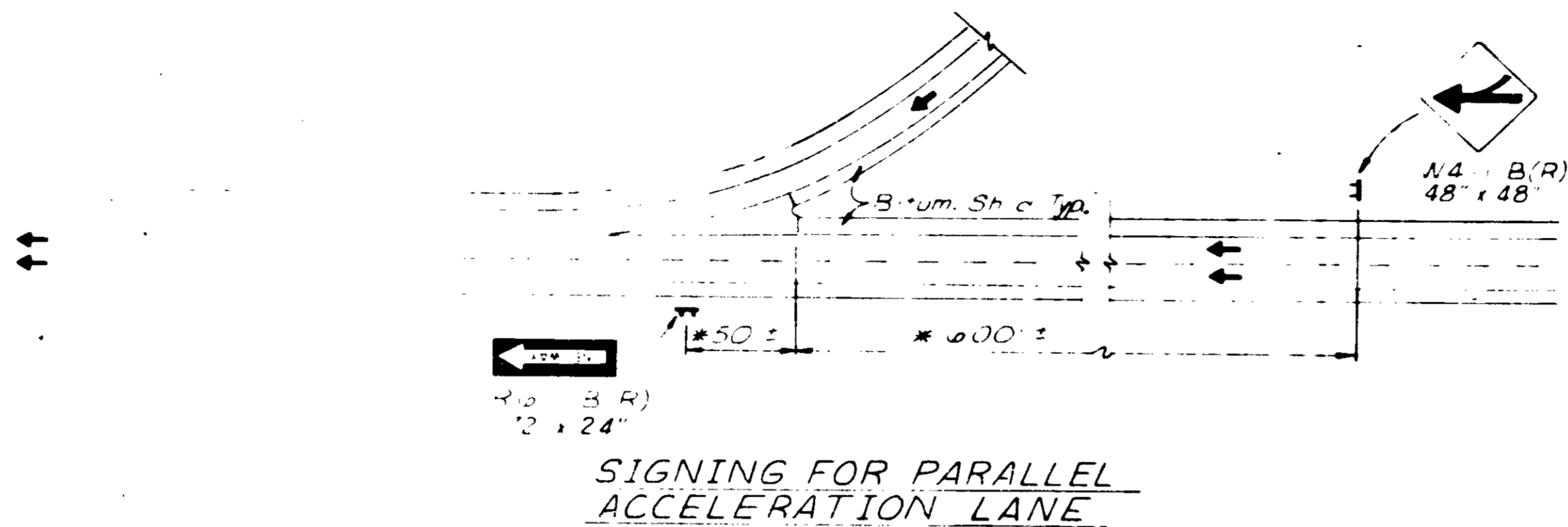
EXIT NO.	LOCATION	SIGN CODE	SIGN SIZE (FT X FT)	SIGN SUMMARY		POST LENGTH (FT.)						W6 X 9		W8 X 10		W8 X 13		W8 X 15		W8 X 18		W10 X 19		W10 X 22		W10 X 26		W14 X 22		W12 X 26		W12 X 30		W12 X 35				
				PANEL SIGN AREA (FT ²) ENCAPSULATED LENS REFLECTIVE SHEETING	PANEL SIGN AREA (FT ²) ENCLOSED LENS REFLECTIVE SHEETING	POST 1		POST 2		POST 3		STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)	STEEL (lbs.)	CONC. (cys.)			
						POST LENGTH	STUB LENGTH	POST LENGTH	STUB LENGTH	POST LENGTH	STUB LENGTH																											
2	12+00 "A"	IGS-1	10x10	180		17'-0" 16'-6"	2'-6"	17'-0" 16'-6"	2'-6"																													
2	38+00 "A"	IGS-2	18x8	144		21'-6"	2'-0"	19'-6"	2'-0"			695.74	0.81																									
2	65+00 "A"	IGS-3	19x7	133		14'-0"	2'-0"	14'-6"	2'-0"			479.24	0.81																									
2	78+50 "A"	IGS-4	18x9	162		21'-0" 21'-6"	2'-6"	15'-6" 14'-0"	2'-6"					130.89	1.40																							
2	19+42 "PR-1"	IGS-5	7x9	63		18'-6"	2'-0"	18'-6"	2'-0"			991.06	0.81																									
2	10+85 "PR-2"	IGS-6	15x9	135		12'-0"	2'-0"	12'-0"	2'-0"			274.06	0.81																									
2	12+00 "PR-2"	IGS-7	11x9	99		12'-6"	2'-0"	11'-6"	2'-0"			274.06	0.81																									
2	13+40 "PR-2"	IGS-8	12x6	72		16'-0"	2'-0"	14'-6"	2'-0"			992.56	0.81																									
2	34+00 "PR-1"	IGS-9	12x8	96		16'-0"	2'-0"	16'-0"	2'-0"					986.54	0.81																							
2	192+20 "A"	R3-I9g	10x9.5		35	12'-0" 8'-6"	2'-0"	14'-6" 18'-6"	2'-0"			228.06	0.81																									
2	197+20 "A"	IGD-1	10x3	30		13'-0" 12'-0"	2'-0"	14'-6" 18'-6"	2'-0"			265.06	0.81																									
TOTALS				1048	35	SUBTOTALS →						1828.86	4.86	986.54	0.81	1108.86	1.62	130.89	1.40	754.44	1.40																	

STEEL: 4769.05
TOTAL LBS. 4655.09

CONCRETE: (CLASS B) 10.09
TOTAL CYS. 10.09

INDIANA DEPARTMENT OF HIGHWAYS
DIVISION OF TRAFFIC
PANEL SIGN & POST QUANTITIES





SIGN NO.	SHOULDER WIDTH	GORE WIDTH
5	4	31
6	4	32
7	4	33

DETAIL "A"

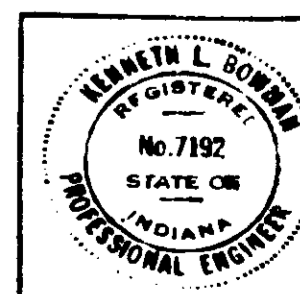
* The distance and the stations shown in the Plans are to upper corner of the R4 B(R), W4 B(R) and W13-2-B signs be located as indicated by the Engineer.

1. Signs shall be offset a minimum of 2' from the edge of the shoulder.

DETAILS

No Scale

R-19057

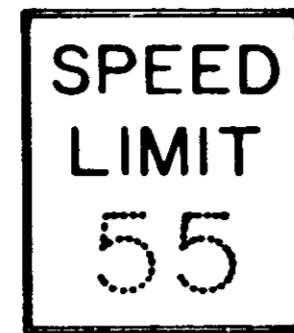




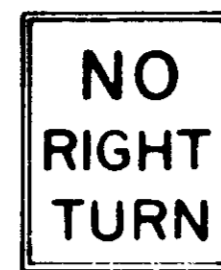
R1-1-A
36" x 36"
R1-1-B
48" x 48"



R1-2
36" x 36" x 36"
R1-2-A
48" x 48" x 48"
R1-2-B
60" x 60" x 60"



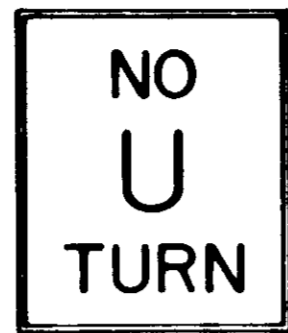
R2-1
24" x 30"
R2-1-A
36" x 48"
R2-1-B
48" x 60"



R3-1a
24" x 30"
R3-1a-A
36" x 48"



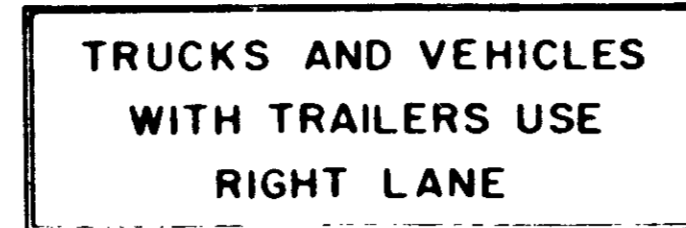
R3-2a
24" x 30"
R3-2a-A
36" x 48"



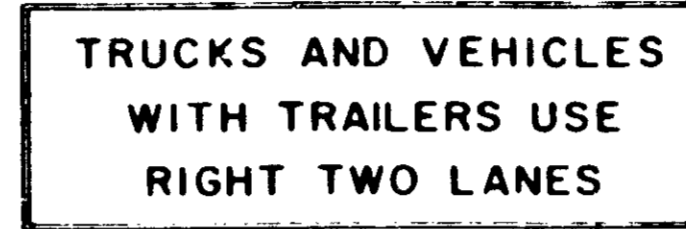
ON
FREEWAY
R3-14a-B
48" x 60"
R3-14b
48" x 30"



R4-1
24" x 30"
R4-1-A
36" x 48"



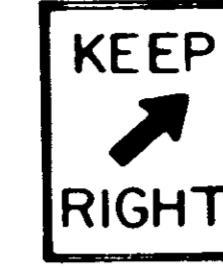
R3-19g
10' x 3 1/2'



R3-19h
10' x 3 1/2'



R4-7a
24" x 30"
R4-7a-A
36" x 48"
R4-7a-B
48" x 60"



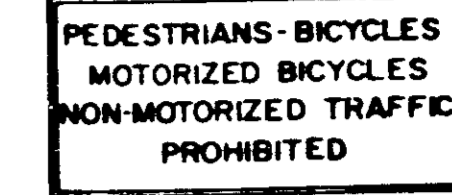
R4-7b
24" x 30"
R4-7b-A
36" x 48"
R4-7b-B
48" x 60"



R5-1-A
36" x 36"
R5-1-B
48" x 48"



R5-1a
36" x 24"
R5-1a-A
42" x 30"
R5-1a-B
48" x 36"



R5-10f
72" x 36"



R6-1 (R or L)
36" x 12"
R6-1-A (R or L)
48" x 16"
R6-1-B (R or L)
72" x 24"



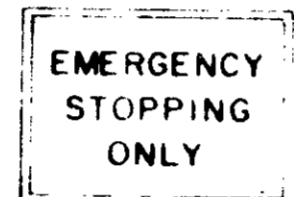
R6-2 (R or L)
18" x 24"
R6-2-B (R or L)
30" x 36"



R6-3a
24" x 18"



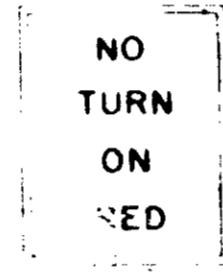
R7-1
12" x 18"



R8-7
30" x 24"
R8-7-A
48" x 36"



R8-17a
30" x 36"
R8-17a-A
48" x 60"



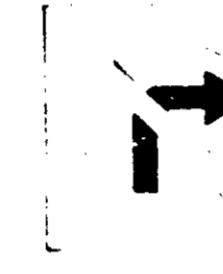
R10-11a
24" x 30"
R10-11a-A
36" x 48"



R-21A
18" x 24"



R-45
48" x 36"



R3-1
24" x 24"
R3-1-A
30" x 30"
R3-1-B
36" x 36"
R3-1-C
48" x 48"



R3-2
24" x 24"
R3-2-A
30" x 30"
R3-2-B
36" x 36"
R3-2-C
48" x 48"



R3-4
24" x 24"
R3-4-A
30" x 30"
R3-4-B
36" x 36"
R3-4-C
48" x 48"



R7-A (R or L)
48"



W3-1-A
36" x 36"
W3-1-B
48" x 48"



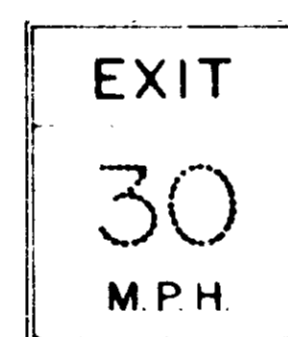
W4-1-A (R)
36" x 36"
W4-1-B (R)
48" x 48"



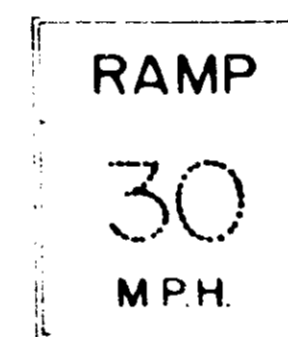
W6-3-B
48" x 48"
PLAQUE
24" x 18"

RIGHT LANE ENDS

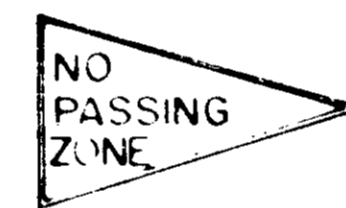
W1-1 (R or L)
36" x 36"
W1-1-A (R or L)
48" x 48"



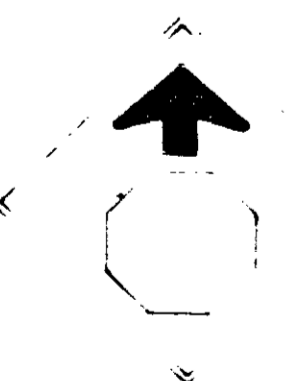
W13-2-B
48" x 60"



W13-3-B
48" x 60"



W14-3
36" x 48" x 48"
W14-3-A
48" x 64" x 64"



W3-1a-A
36" x 36"



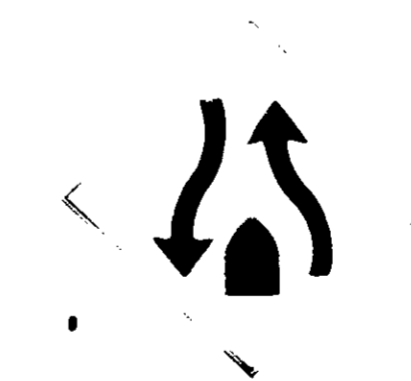
W3-3-A
36" x 36"



W4-2 (R or L)
36" x 36"
W4-2-A (R or L)
48" x 48"



W6-1
36" x 36"
W6-1-A
48" x 48"



W6-2
36" x 36"
W6-2-A
48" x 48"

INDIANA DEPARTMENT OF HIGHWAYS
DIVISION OF TRAFFIC

SHEET SIGNS



SHEET 46 OF 171

R-19057

PAVED SIDE DITCH & SODDING SUMMARY TABLE

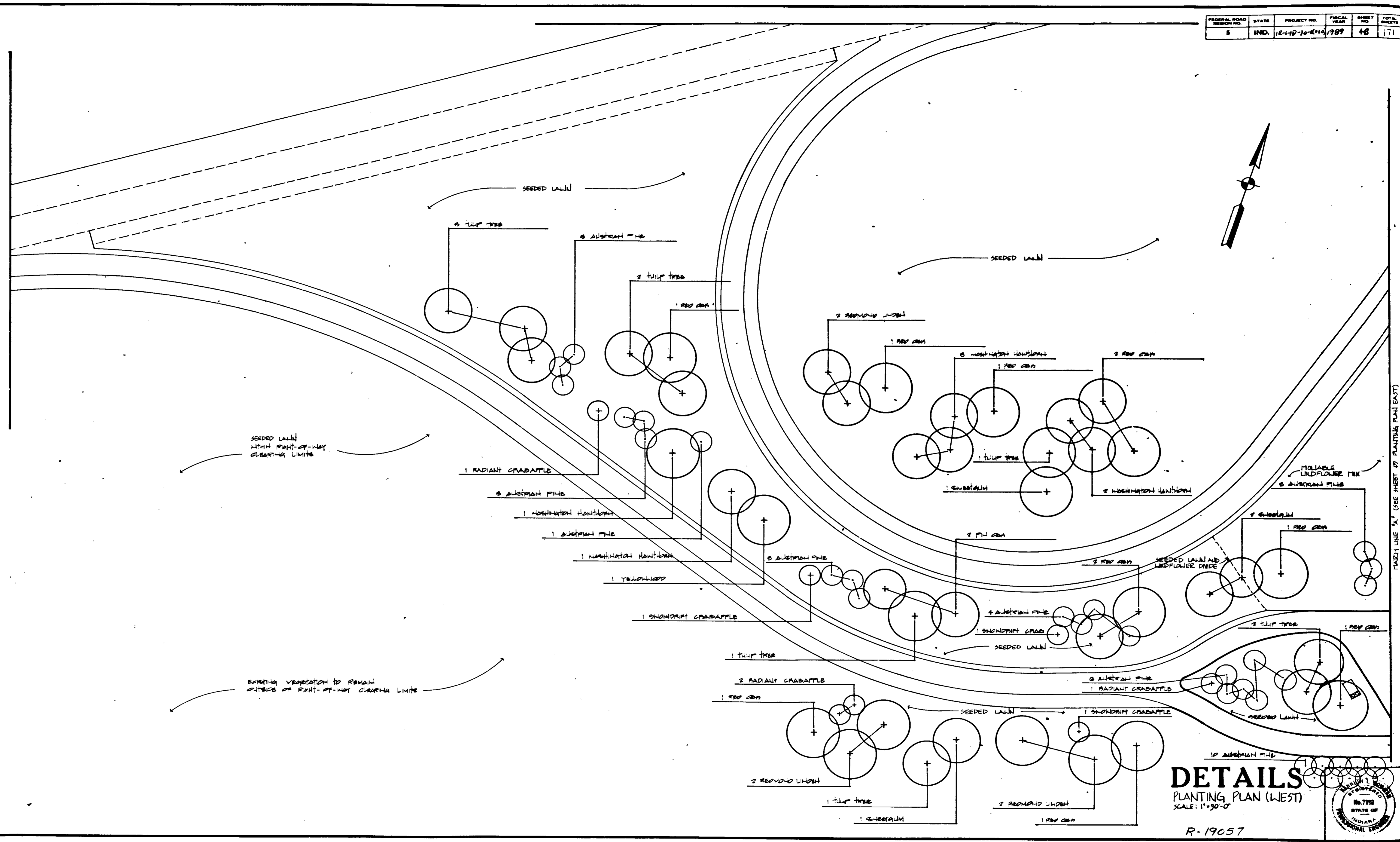
FROM STATION	TO STATION	LOCATION		PAVED SIDE DITCH							SODDING					SEE SHEET NO.				
		LEFT	MEDIAN RIGHT	ACTUAL LENGTH	CUT OFF WALLS (# EQUIVALENT LENGTH EA.)	LUGS (# EQUIVALENT LENGTH EA.)	TOTAL EQUIVALENT PAY LENGTHS TYPE							FOR PAVED SIDE DITCH	FOR DITCHES		FOR MEDIAN	FOR SHOULDER	FOR LAWN	
							LFT.	EACH	EACH	LFT.	LFT.	LFT.	LFT.							LFT.
9+00	14+00	X		300	1	2	532								532					22
14+00	16+76	X		236	1	2	247								247					22
71+00	75+00	X		100	2	1	124								124					24
16+26	27+50	X		1125											750					22
49+00	61+00	X		1200											800					23
63+00	77+00	X		1400											1500					24
SEE PLANTING PLAN															991					48-49

NOTE:
SEE PLANTING PLAN FOR LAWN SODDING

PAVED SIDE DITCH & SODDING SUMMARY TABLE

FROM STATION	TO STATION	LOCATION		PAVED SIDE DITCH							SODDING					SEE SHEET NO.					
		LEFT	MEDIAN RIGHT	ACTUAL LENGTH	CUT OFF WALLS (# EQUIVALENT LENGTH EA.)	LUGS (# EQUIVALENT LENGTH EA.)	TOTAL EQUIVALENT PAY LENGTHS TYPE							FOR PAVED SIDE DITCH	FOR DITCHES		FOR MEDIAN	FOR SHOULDER	FOR LAWN		
							LFT.	EACH	EACH	LFT.	LFT.	LFT.	LFT.							LFT.	LFT.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1E-147-70-2(10)	1989	48	171

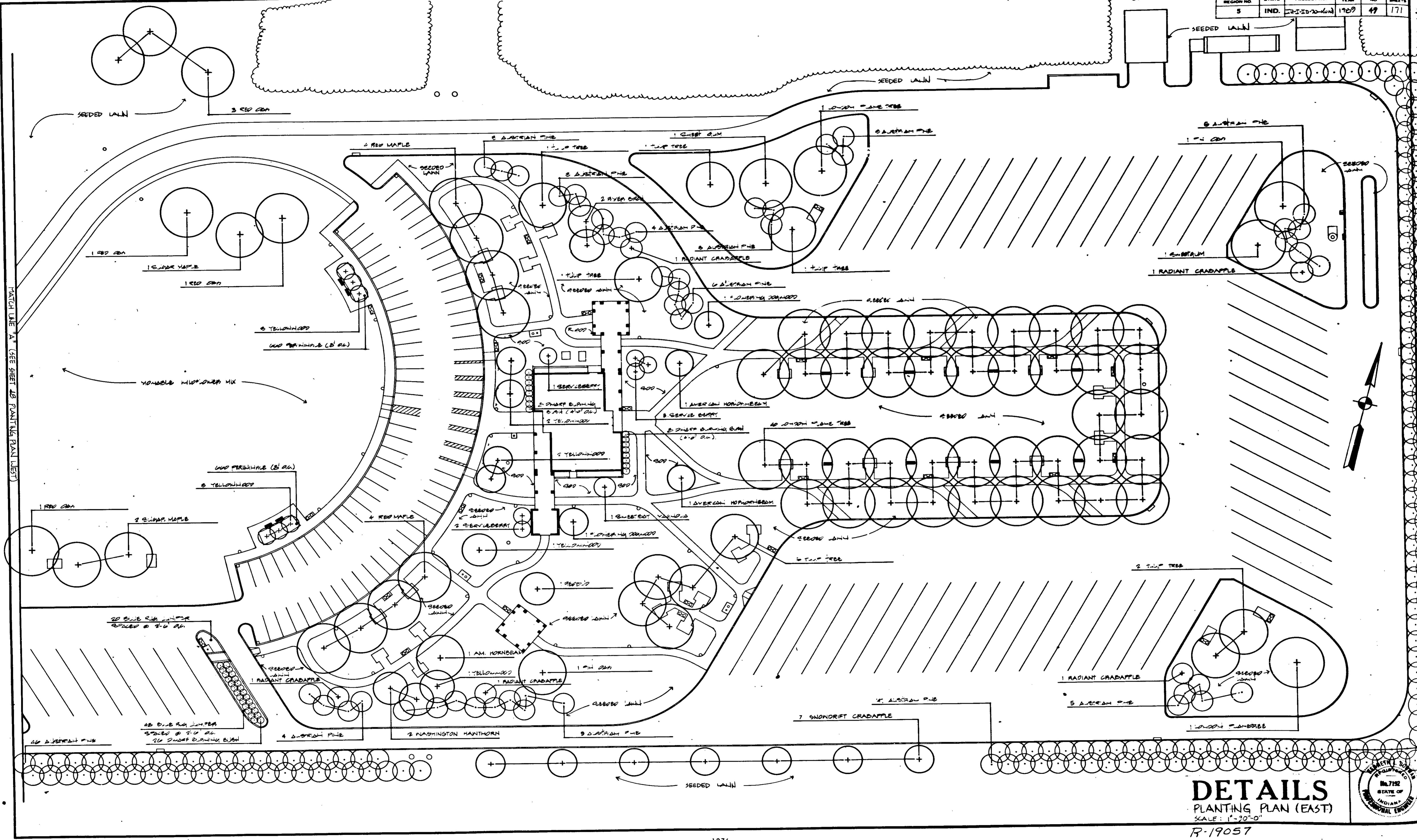


DETAILS
 PLANTING PLAN (WEST)
 SCALE: 1"=30'-0"

R-19057

STATE OF INDIANA
 No. 7152
 PROFESSIONAL ENGINEER

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	2-13-64	1969	49	171



DETAILS
 PLANTING PLAN (EAST)
 SCALE: 1"=30'-0"
 R-19057



MASTER PLANT LIST FOR PROJECT

CODE	QUAN	NAME		CALIPER	SIZE		GRADING CLASS	MINIMUM BALL SIZE		MINIMUM PIT AREA		MINIMUM BACKFILL PER PLANT		MULCH AREA		MULCH PLANT CU. YDS.
		COMMON NAMES	TECHNICAL NAMES		HEIGHT	# BRANCHING		DIAMETER INCHES	DEPTH INCHES	DIAMETER INCHES	DEPTH INCHES	B B	B R	DIAMETER INCHES	DEPTH INCHES	
AE	5	AUTUMN PLAME RED MAPLE	ACER RUBRUM 'AUTUMN PLAME'	3"	14'-16'	-	1.1.3.1	32	22	44	23	.486		52	2	.091
AS	3	SUGAR MAPLE	ACER SACCHARUM	2"	12'-14'	-	1.1.3.1	24	16	36	19	.311		44	2	.065
AC	6	SERVICE BERRY	AMELANCHIER CANADENSIS	-	6'	MULTI-STEM	1.1.3.3	18	14	30	17	.217		36	2	.049
BN	2	RIVER PINE	BETULA NIGRA	-	8'	MULTI-STEM	1.1.3.1	22	15	34	18	.283		42	2	.059
CA	1	AMERICAN HORNBEAM	CARPINUS CAROLINIANA	1 1/2"	8'-10'	-	1.1.3.2	24	18	36	21	.340		44	2	.065
CC	1	EASTERN REDBUD	CERCIS CANADENSIS	2"	8'-10'	-	1.1.3.2	24	18	36	21	.367		46	2	.071
CL	15	YELLOWWOOD	GLADASTIS LUTEA	2"	8'-10'	-	1.1.3.2	24	18	36	21	.340		44	2	.065
CF	2	FLOWERING DOGWOOD	CORNUS FLORIDA	2"	8'-10'	-	1.1.3.2	24	18	36	21	.367		46	2	.071
CP	9	WASHINGTON HAZELHORN	CRATAEGUS PHAENOPYRUM	1 1/2"	8'-10'	-	1.1.3.3	26	18	36	21	.367		46	2	.071
EA	42	DWARF BURNING BUSH	ELONYMUS ALATUS COMPACTUS	-	30"	MIN. 2 CANES	2.1.3.2	10	8	22	11	.091		60	3	.182
JH	60	BLUE BUG JUNIPER	JUNIPERUS HORIZONTALIS 'NILTONII'	#5 CONT.	24" SPREAD	-	3.1.2.1	12	9	24	12	.113		51	3	.151
LS	6	SWEETGUM	LIQUIDAMBAR STYRACIFLUA	2 1/2"	10'-12'	-	1.1.3.2	24	18	36	21	.340		44	2	.065
LT	21	TULIP TREE	LIREODENDRON TULIPIFERA	2 1/2"	12'-14'	-	1.1.3.1	28	19	40	22	.410		48	2	.078
MV	1	SWEETBAY MAGNOLIA	MAGNOLIA VIRGINIANA	-	6'	-	1.1.3.4	18	14	30	17	.217		36	2	.049
MR	9	RADIANT CRABAPPLE	MALUS 'RADIANT'	1 1/2"	6'-8'	-	1.1.3.3	20	14	32	17	.239		40	2	.054
MS	10	SNOWDRIFT CRABAPPLE	MALUS 'SNOWDRIFT'	1 1/2"	6'-8'	-	1.1.3.3	20	14	32	17	.239		40	2	.054
OV	2	AMERICAN HORNBEAM	OSTRAYA VIRGINIANA	-	8'-10'	-	1.1.3.2	24	18	36	21	.340		44	2	.065
PN	2 1/2	AUSTRIAN PINE	PINUS NIGRA	-	6'	-	3.1.2.4	22	15	34	18	.283		42	2	.059
PA	42	BLOODGOOD LONDON PLANETREE	PLATANUS ACERIFOLIA 'BLOODGOOD'	3"	14'-16'	-	1.1.3.1	32	20	44	23	.486		52	2	.091
QP	4	PIN OAK	QUERCUS PALUSTRIS	2 1/2"	12'-14'	-	1.1.3.1	28	19	40	22	.410		48	2	.078
QR	17	RED OAK	QUERCUS RUBRA	2 1/2"	12'-14'	-	1.1.3.1	28	19	40	22	.410		48	2	.078
TE	6	REDMOND LINDEN	TILIA ELKHORA 'REDMOND'	2 1/2"	10'-12'	-	1.1.3.2	24	18	36	21	.340		44	2	.065
VM	1320	PERIWINKLE	VINCA MINOR 2 1/2" PEAT POTS	-	6'-8'	-	6.6	-	-	8	12	.016		8	2	.002

* ALL DECIDUOUS TREES SHALL HAVE ABOVE SPECIFIED BRANCHING - REFER TO SPECIAL PROVISIONS 622.02 (J) 3.
 * * HEIGHT IS TO GOVERN SIZE REFER TO A A N STANDARDS P. 23
 † REFER TO DIMENSIONS ON STANDARD SHEET L S D IN THE PLANS.

R 19057 PART 2 OF 2



R-19057

ESTIMATE OF QUANTITIES (CONT.)

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-100-10-1000	69	57	171

STRUCTURE SUMMARY

CIRCULAR PIPE LINEAL FEET

KIND		SIZE																						
		4"	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"												
THICKNESS	STEEL					16	16	16	16	16	16													
THICKNESS STRUCT. PLATES STEEL	TOP & SIDES																							
	BOTTOM																							
GROUP A						972	340	450	175	585	45	250												
GROUP																								
GROUP																								
GROUP																								
GROUP																								
GROUP																								
GROUP																								
REINFORCED CONCRETE																								
EXTRA STRENGTH REINF. CONC.																								
HEAVY DUTY REINF. CONC.																								
VITRIFIED CLAY CULVERT																								
CORR. STEEL																								
FULLY BITUM. COATED CORR. STEEL																								
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT																								
FULLY BITUMINOUS COATED PERFORATED CORR. STEEL																								
DRAINTILE CLASS STANDARD																								
DRAINTILE CLASS EXTRA																								
DRAINTILE CLASS HEAVY DUTY																								

* STRUTTED

STRUCTURE SUMMARY (CON'T.)

PIPE ARCHES LINEAL FEET

KIND	MIN. AREA SQ. FT. #	PIPE ARCHES LINEAL FEET																						
		STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	
THICKNESS																								
THICKNESS STRUCT. PLATES STEEL	TOP & SIDES																							
	BOTTOM																							
THICKNESS	TOP & SIDES																							
	BOTTOM																							
GROUP G-																								
GROUP G-																								
GROUP G-																								
GROUP H-																								
GROUP H-																								
GROUP H-																								
CORR. STEEL PIPE ARCH																								
STRUCT. PLATE STEEL PIPE ARCH																								
BIT. COAT. CORR. STEEL PIPE ARCH																								
BIT. COAT. CORR. STEEL PIPE ARCH WITH PAVED INVERT																								
REIN. ELLIPTICAL CONCRETE																								

PIPE GROUP "K" FOR UNDERDRAINS	6"	15367	LN. FT.
PIPE FULLY BIT. COATED NON PERFORATED CORR. STEEL (THICKNESS 0.052) FOR UNDERDRAINS	6"	167	LN. FT.
AGGREGATE FOR UNDERDRAINS		1303	CYS

ITEM	UNIT	QUANTITY
CONCRETE CLASS "A" IN STRUCTURES	CYS	
REINFORCING STEEL FOR STRUCTURES	LB	
CONCRETE CLASS "A" FOR INTEGRAL CURB WALK	CYS	

INLETS				CATCH BASIN			
TYPE	EACH	TYPE	EACH	TYPE	EACH	TYPE	EACH
A	5			A	122		
E	3						

PIPE END SECTION			
SIZE	EACH	SIZE	EACH
12"		18" X 11"	
15"		22" X 13"	
18"		25" X 16"	
24"	1	29" X 18"	
30"	1	36" X 22"	
36"		43" X 27"	

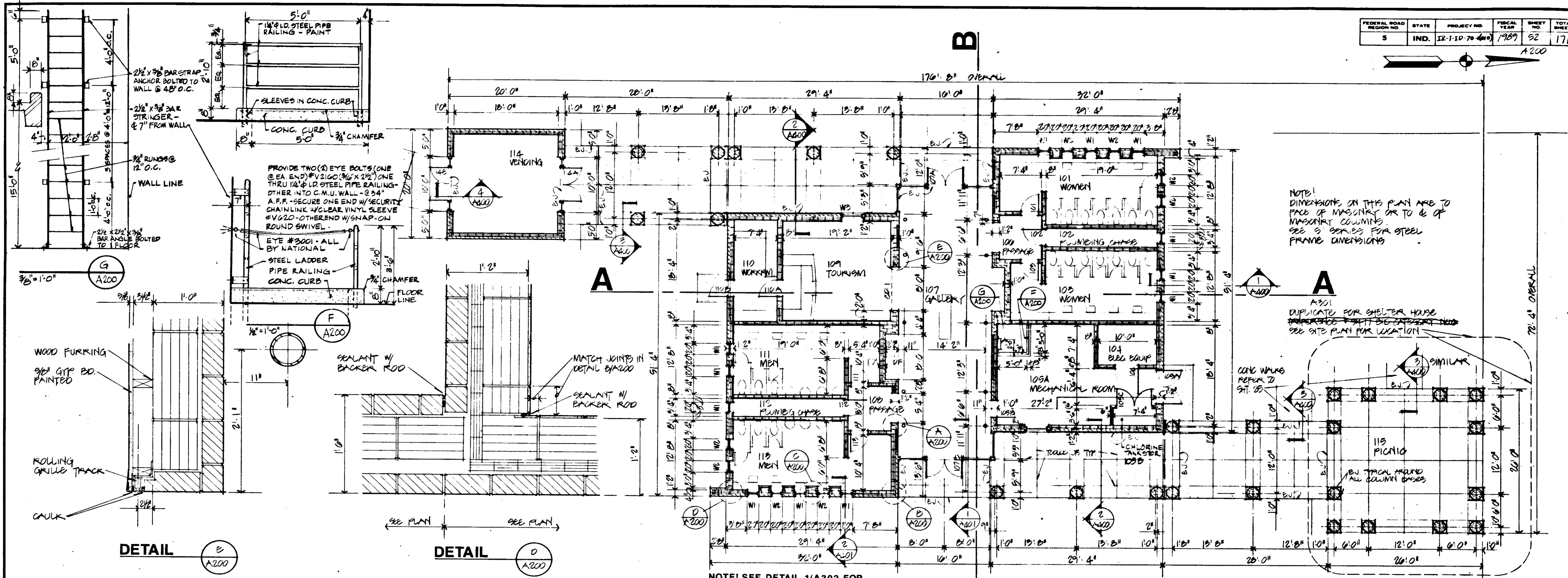
AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CASTINGS ADJUSTED TO GRADE			REIN. CONCRETE SPRING BOXES		
TYPE	EACH		TYPE	EACH	

INLETS USING CASTING IN PLACE			CATCH BASINS USING CASTING IN PLACE		
TYPE	EACH		TYPE	EACH	

(*) SPAN AND RISE WHEN OTHER THAN GROUP "G" OR GROUP "H" IS SPECIFIED.

R-19057



NOTE: DIMENSIONS ON THIS PLAN ARE TO FACE OF MASONRY OR TO C.C. OF MASONRY COLUMNS. SEE 'S' SERIES FOR STEEL FRAME DIMENSIONS.

A301 DUPLICATE FOR SHELTER HOUSE. SEE SITE PLAN FOR LOCATION.

NOTE! SEE DETAIL 1/A302 FOR ENLARGED PLAN OF GALLERY 107

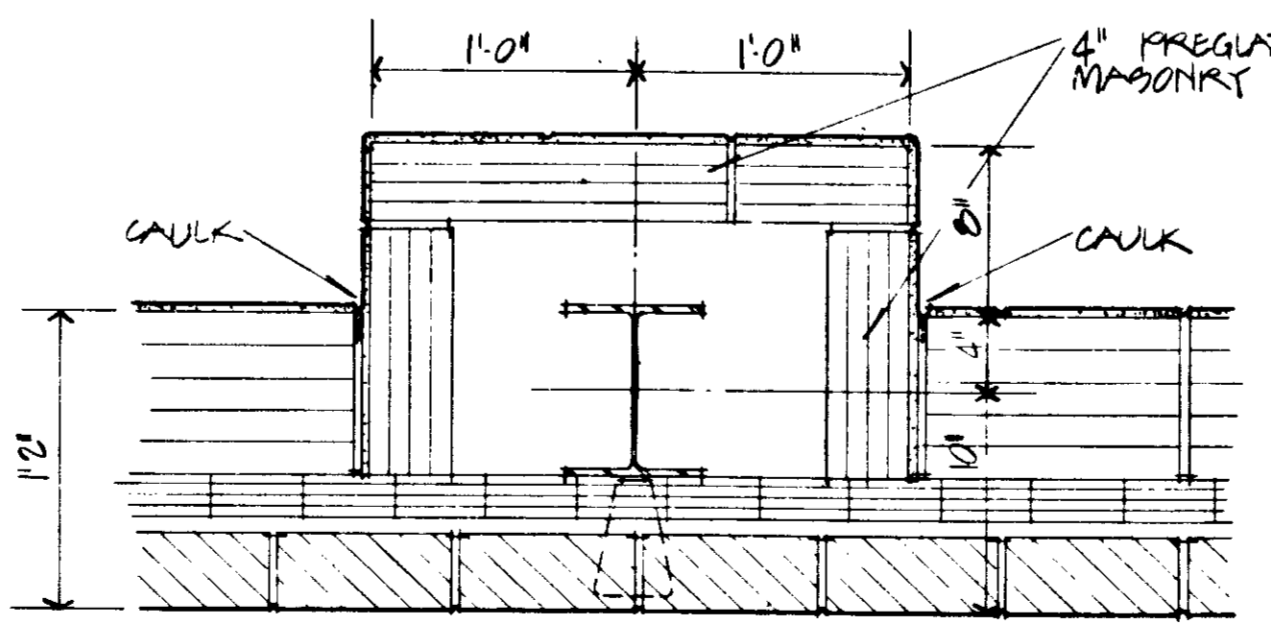
FLOOR PLAN SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

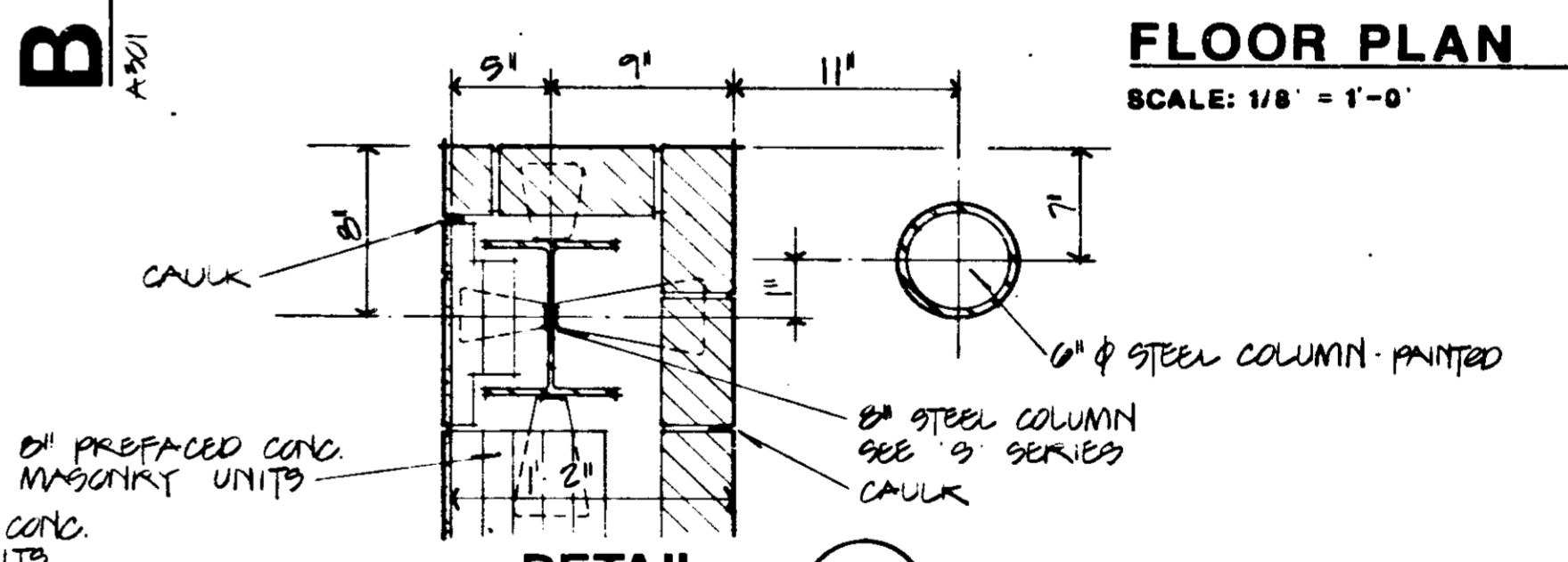
- FOR CHANGE OF FINISHED FLOOR MATERIAL AT DOOR OPENINGS, SEE SILL DETAILS IN DOOR AND FRAME SCHEDULE.
- ALL STEEL DOORS AND STEEL FRAMES ARE TO BE PAINTED.
- ALL WOOD DOORS ARE TO BE STAINED.
- ALL EXPOSED STEEL LINTELS ARE TO BE PAINTED.
- ALL EXPOSED STEEL COLUMNS ARE TO BE PAINTED.
- CEILING OF GALLERY 107 IS TO BE PAINTED.

ROOM FINISH SCHEDULE

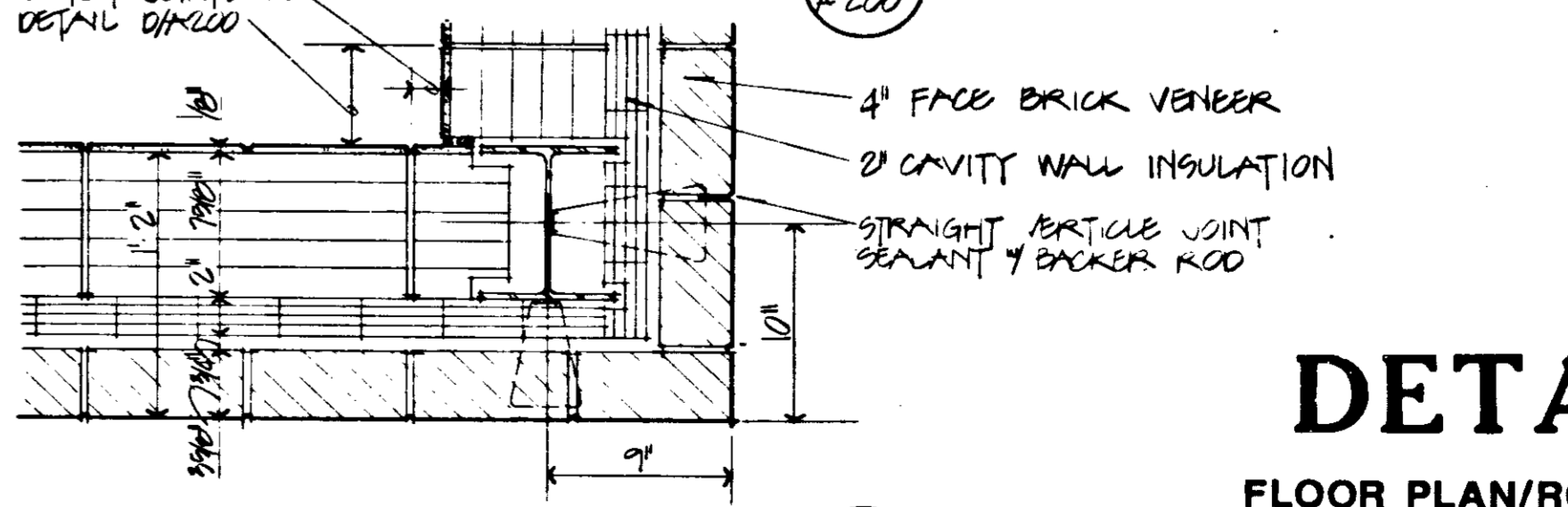
REMARKS	CEILING HEIGHT	CEILING		WALLS		BASE		FLOOR		ROOM NAME	ROOM NUMBER
		1	2	3	4	5	6	7	8		
	9'-3"	3	7	3	7	3	7	3	7	WOMEN	101
	9'-3"	3	7	3	7	3	7	3	7	PLUMBING CHASE	102
	9'-3"	3	7	3	7	3	7	3	7	WOMEN	103
	10'-1"	3	7	3	7	3	7	3	7	ELEC. EQUIP.	104
	10'-1"	3	7	3	7	3	7	3	7	MECH. ROOM	105A
SEMICIRCULAR	8'-0"	3	7	3	7	3	7	3	7	PASSAGE	106
	8'-0"	3	7	3	7	3	7	3	7	GALLERY	107
	9'-3"	3	7	3	7	3	7	3	7	PASSAGE	108
	9'-3"	3	7	3	7	3	7	3	7	TOURISM	109
	9'-3"	3	7	3	7	3	7	3	7	WORKROOM	110
	9'-3"	3	7	3	7	3	7	3	7	MEN	111
	9'-3"	3	7	3	7	3	7	3	7	PLUMBING CHASE	112
	9'-3"	3	7	3	7	3	7	3	7	MEN	113
	10'-1"	3	7	3	7	3	7	3	7	VENDING	114
	10'-1"	3	7	3	7	3	7	3	7	PICNIC	115
EXTERIOR FINISHES	10'-1"	3	7	3	7	3	7	3	7	SHELTER HOUSE	9-1
EXTERIOR FINISHES	10'-1"	3	7	3	7	3	7	3	7	CHLOR. TANK STOR.	105B
		7		6		5		5		BASEMENT	3001



DETAIL C A200



DETAIL A A200



DETAIL B A200

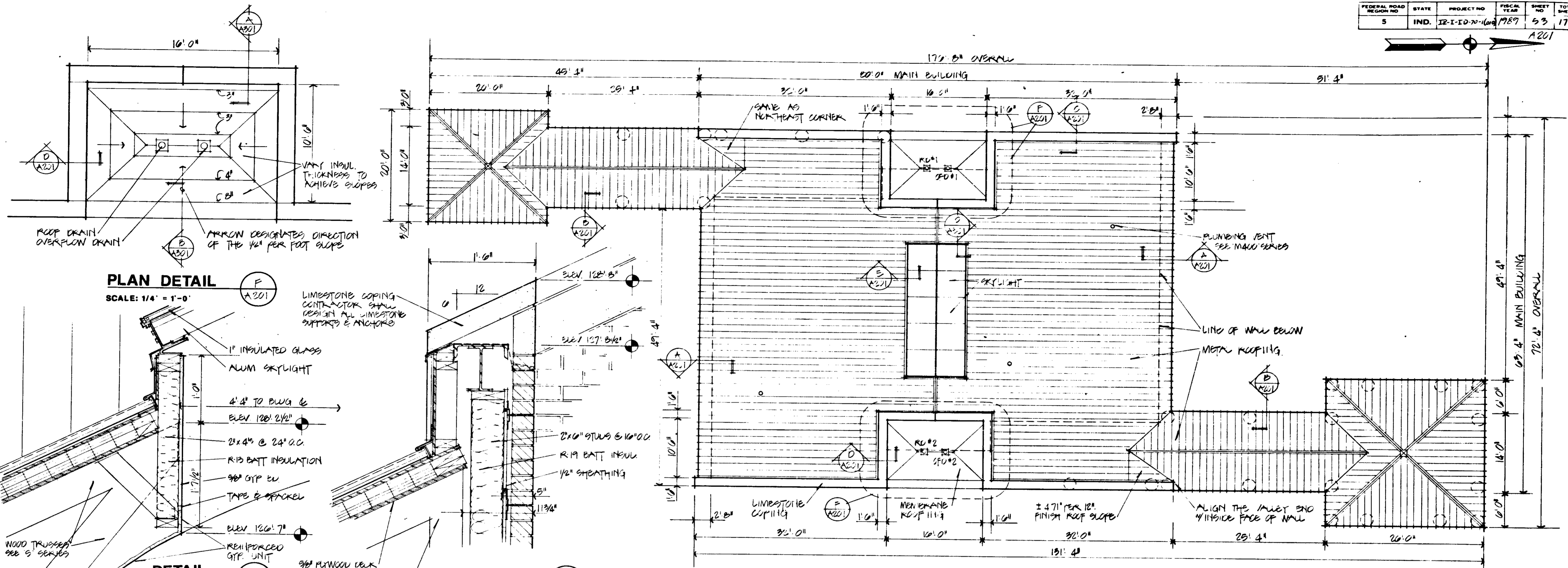
DETAILS

FLOOR PLAN/ROOM FINISH SCHEDULE AND DETAILS

R-19057



5-17-90



DETAILS

ROOF PLAN/DETAILS

R-19057



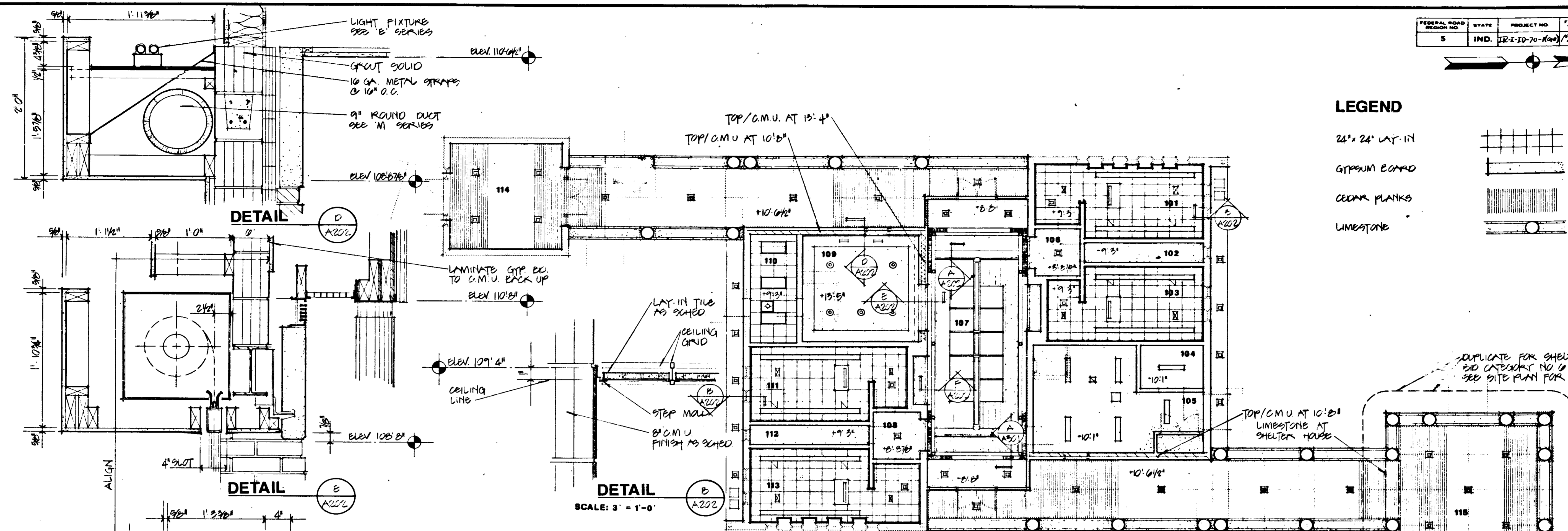
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-10-70-K(40)	1980	54	171

A202

LEGEND

- 24" x 24" LAY-IN
- GYP. BOARD
- CEDAR PLANKS
- LIMESTONE

DUPLICATE FOR SHELTER HOUSE
AND CATEGORY NO. 0 (1 SH-1)
SEE SITE PLAN FOR LOCATION

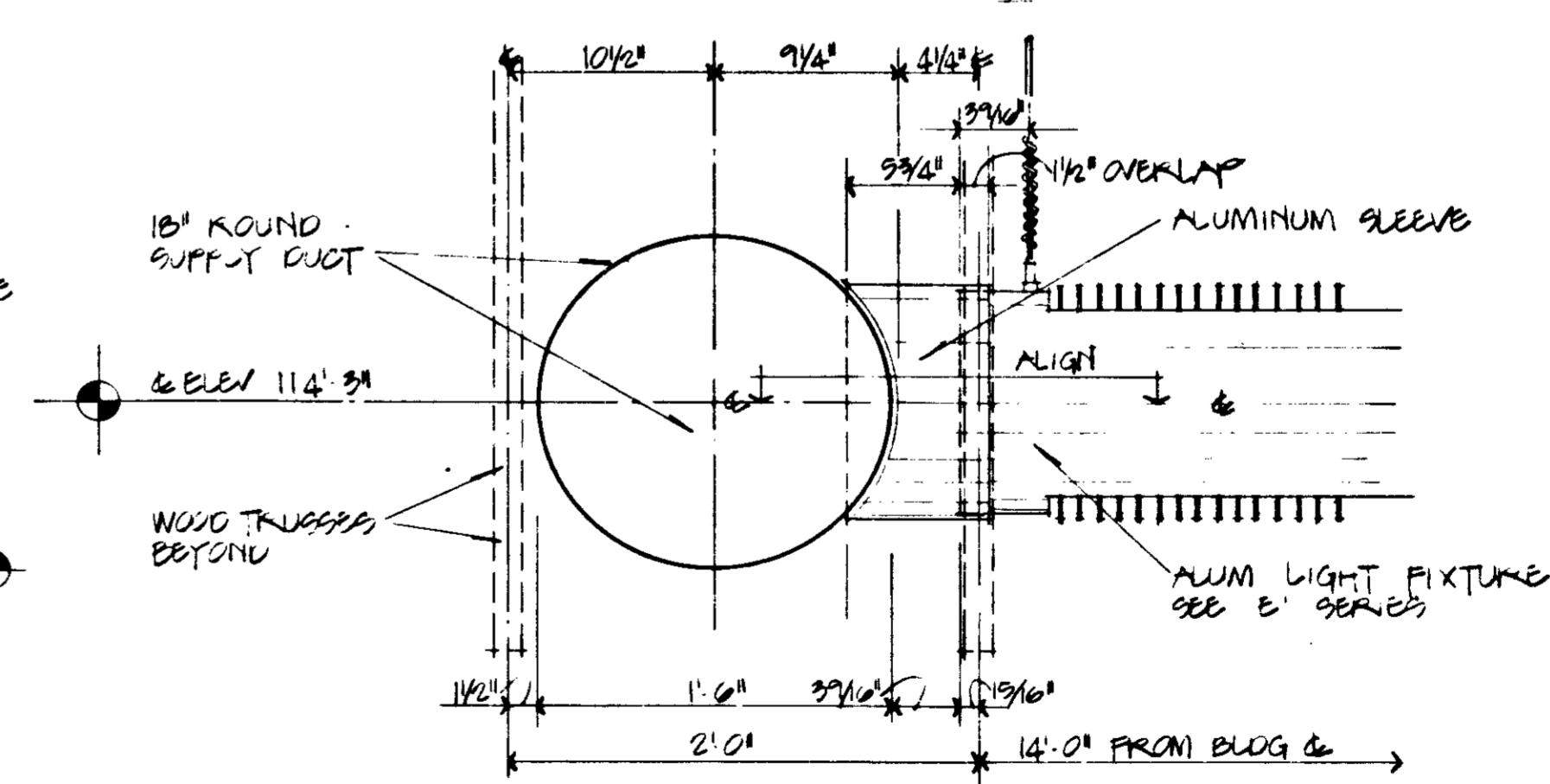


SCALE: 3" = 1'-0"

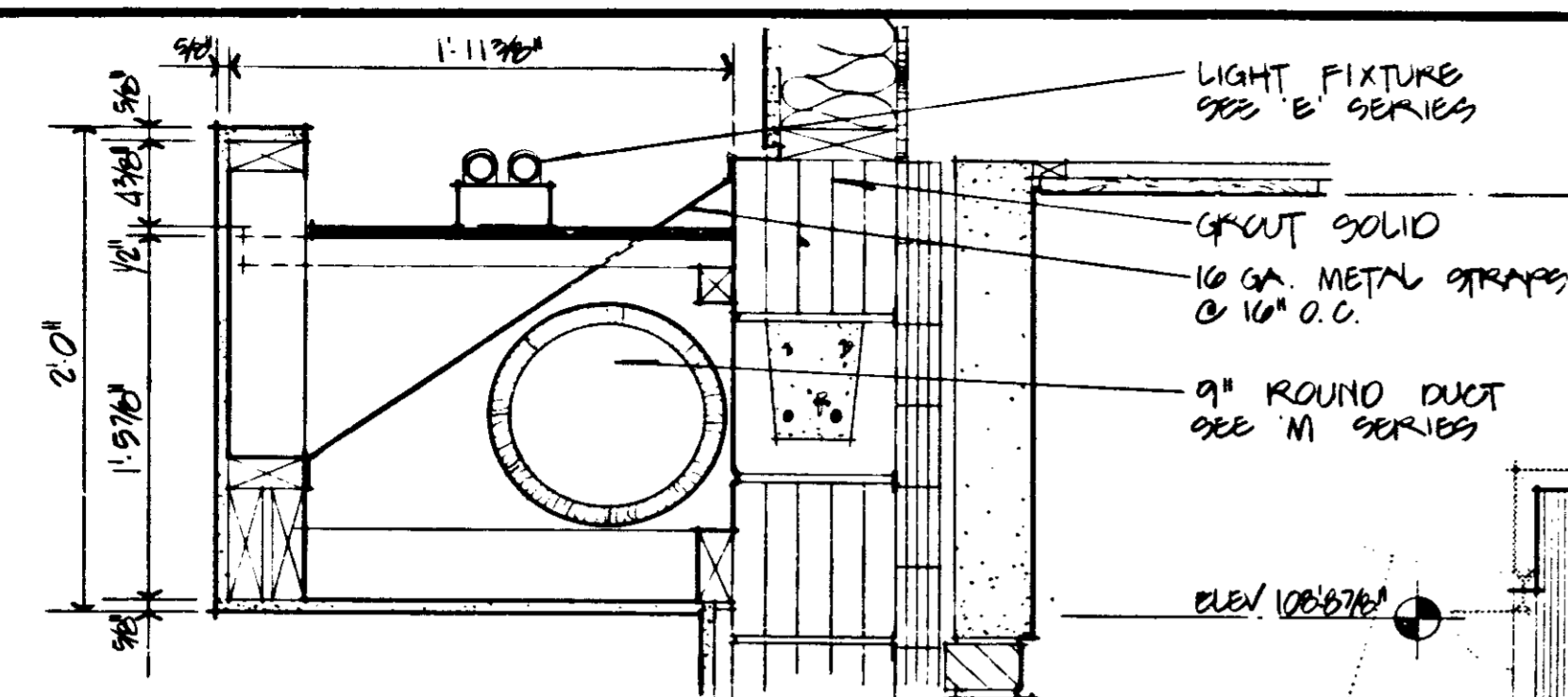
NOTE!
TOP OF C.M.U. WALLS AT 10'-0"
UNLESS OTHERWISE NOTED

REFLECTED CEILING PLAN

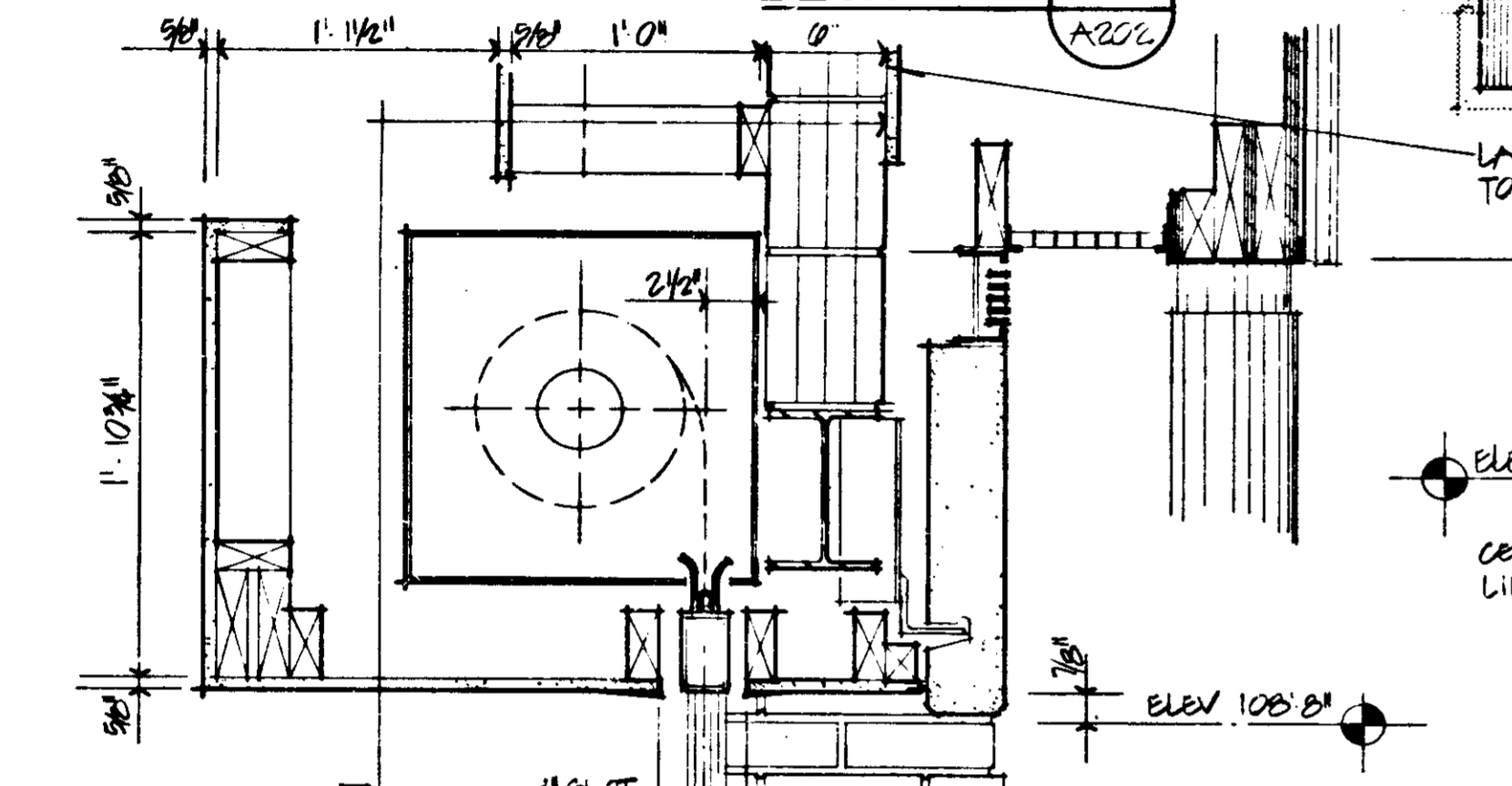
SCALE: 1/8" = 1'-0"



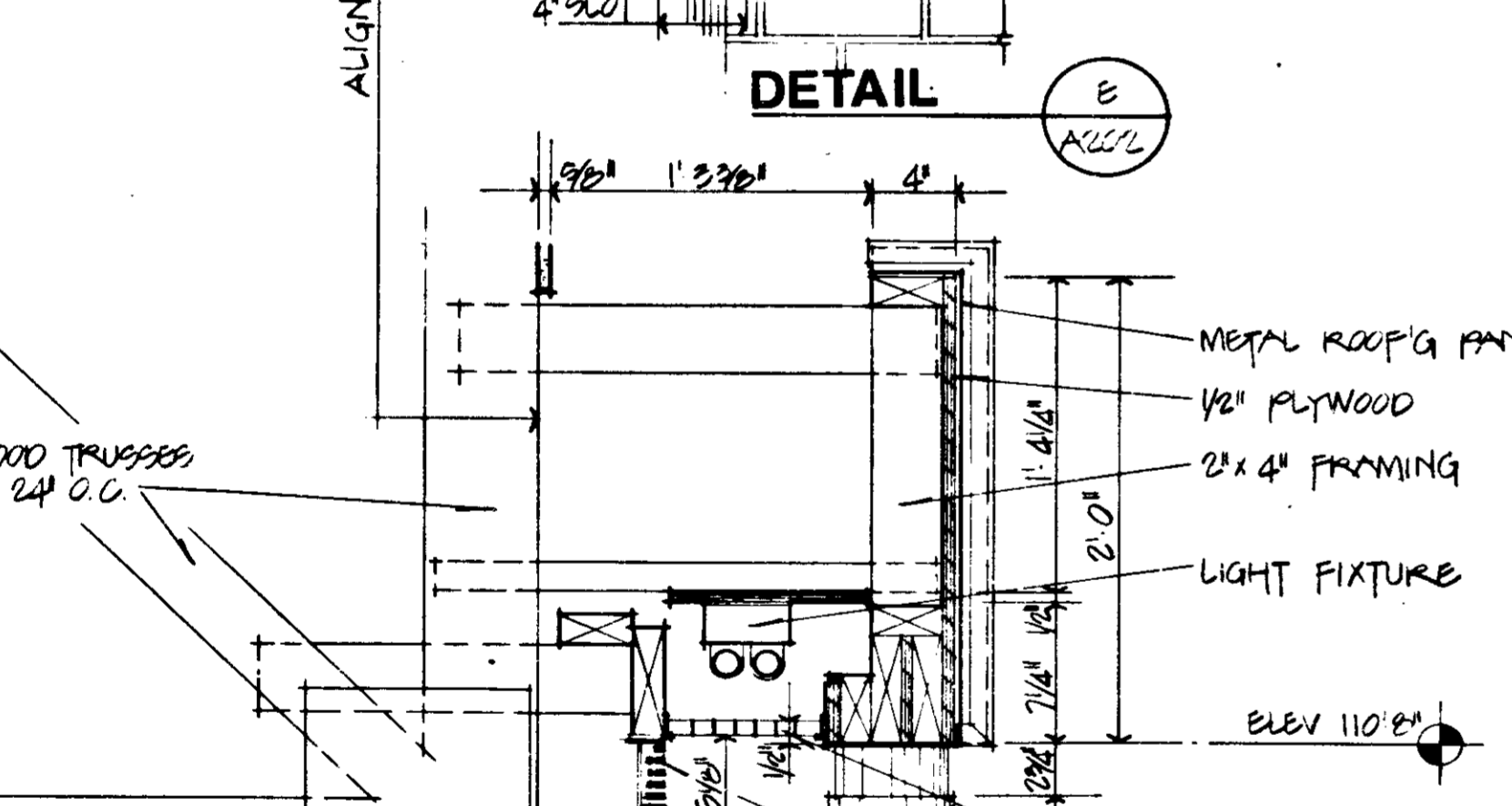
SCALE: 1 1/2" = 1'-0"



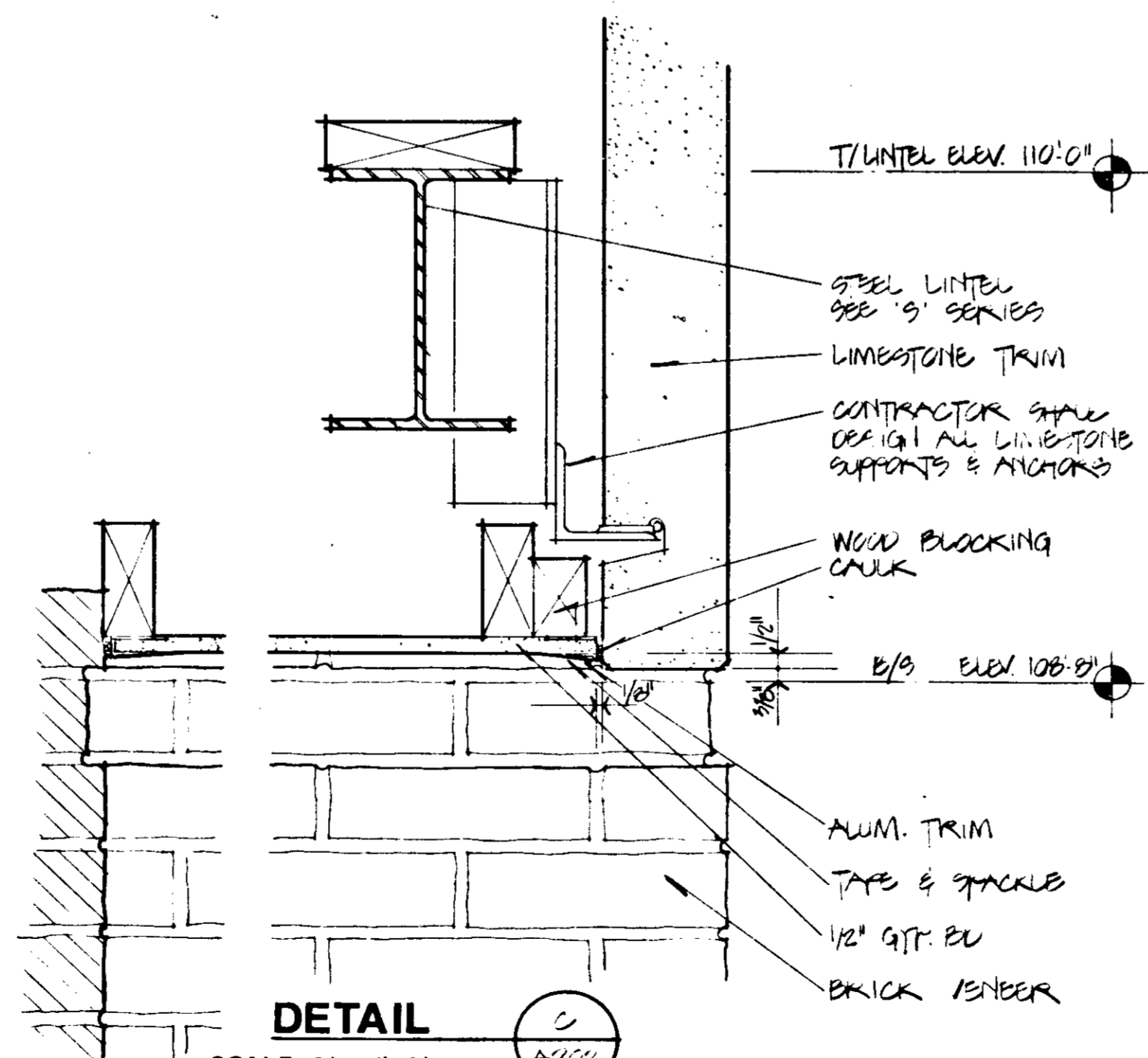
DETAIL D



DETAIL E



SCALE: 1 1/2" = 1'-0"



SCALE: 3" = 1'-0"

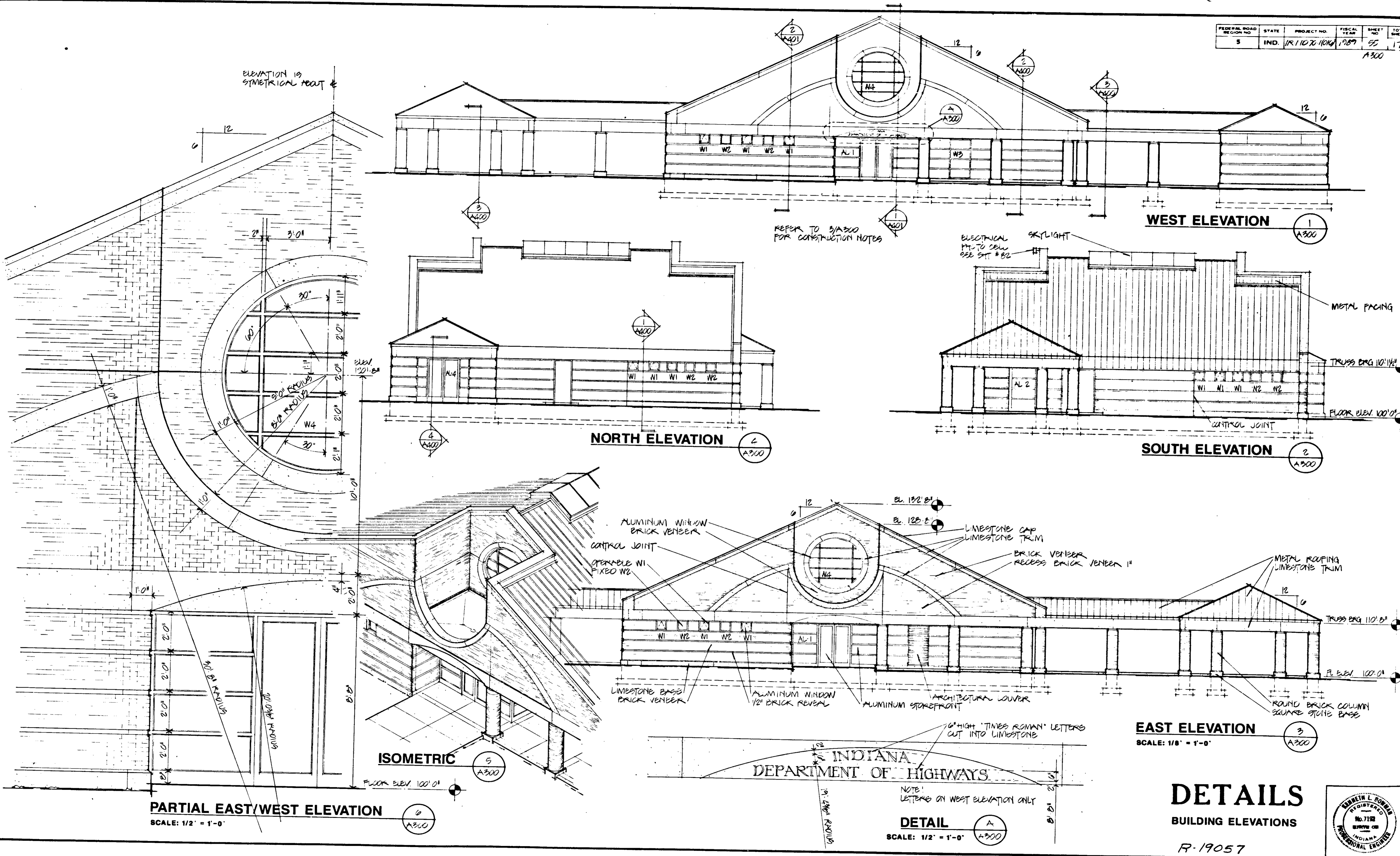
DETAILS

REFLECTED CEILING
PLAN/DETAILS
R-19057



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR 11070-1064	1959	55	171

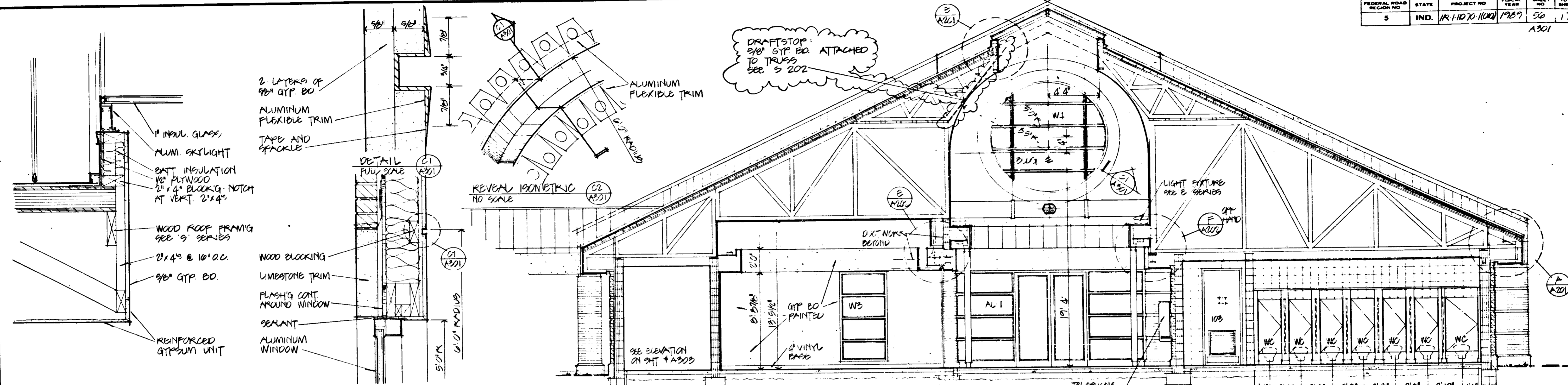
A300



FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-11070 (100)	1969	50	171

A301

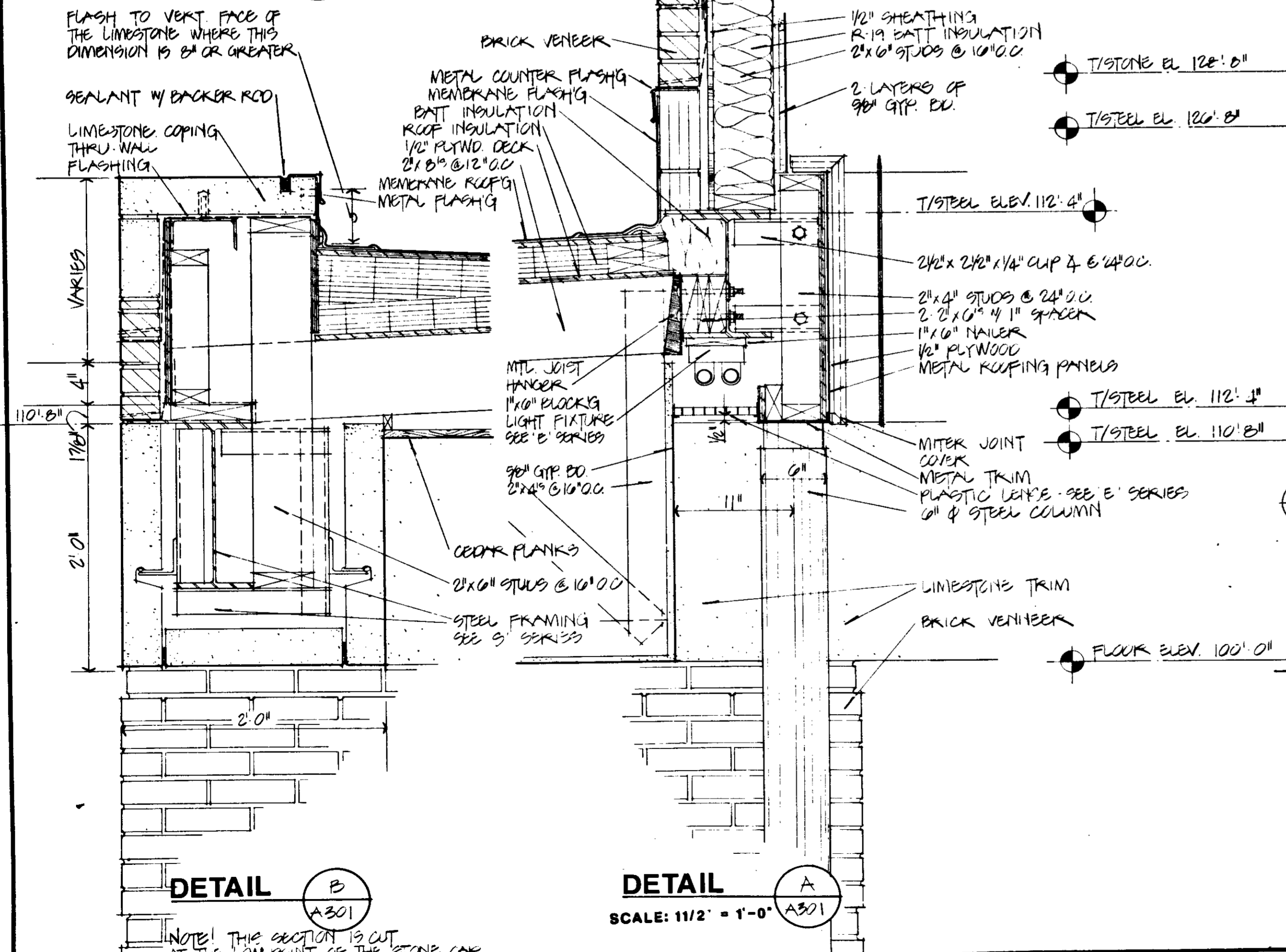
DRAFTSTOP: 5/8" GYP BD. ATTACHED TO TRUSS SEE S 202



DETAIL D A301

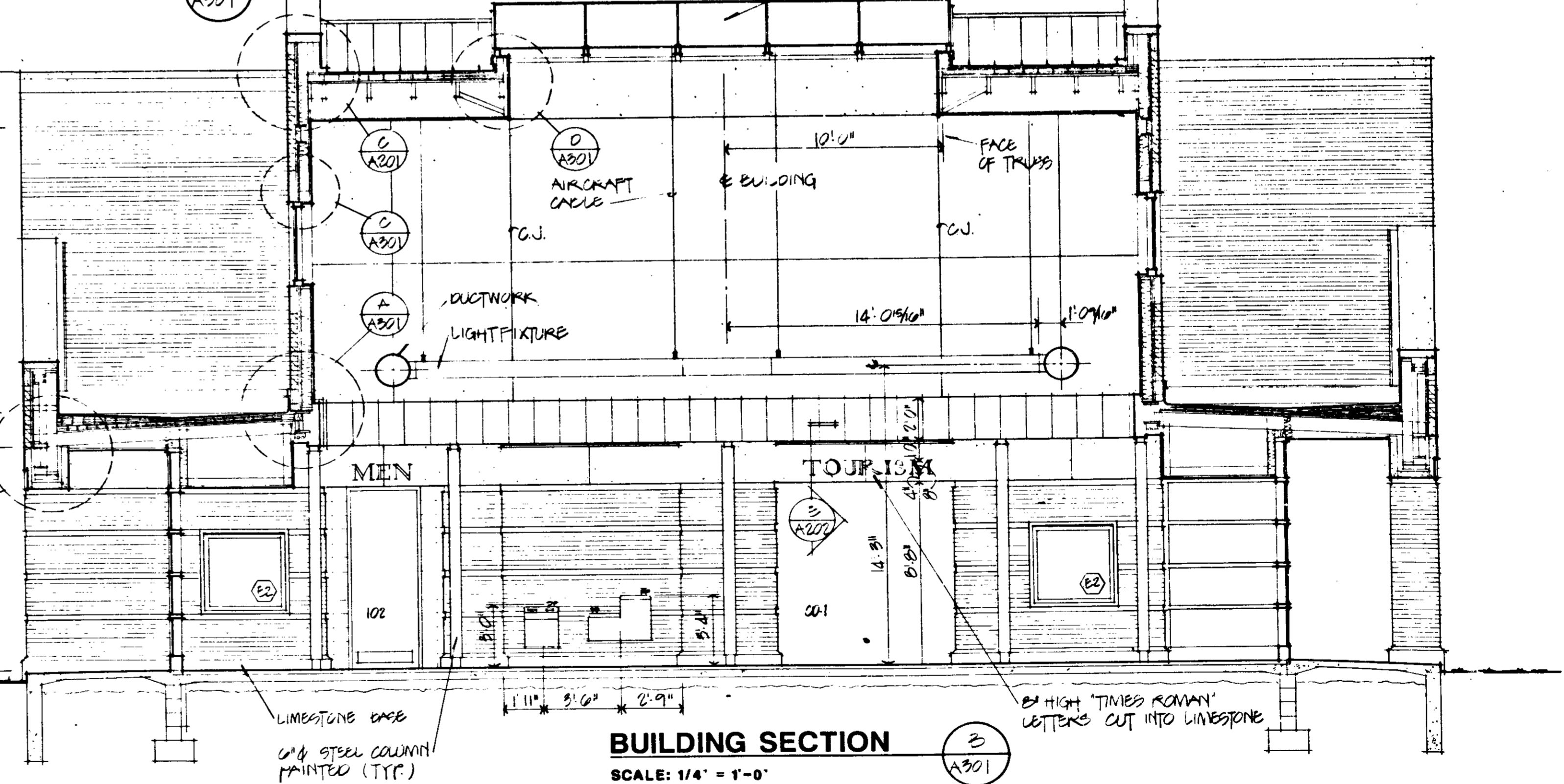
DETAIL C A301

BUILDING SECTION A A301



DETAIL B A301

DETAIL A A301

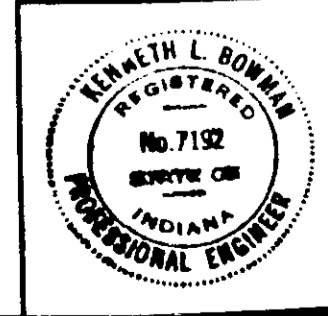


BUILDING SECTION B A301

SCALE: 1/4" = 1'-0"

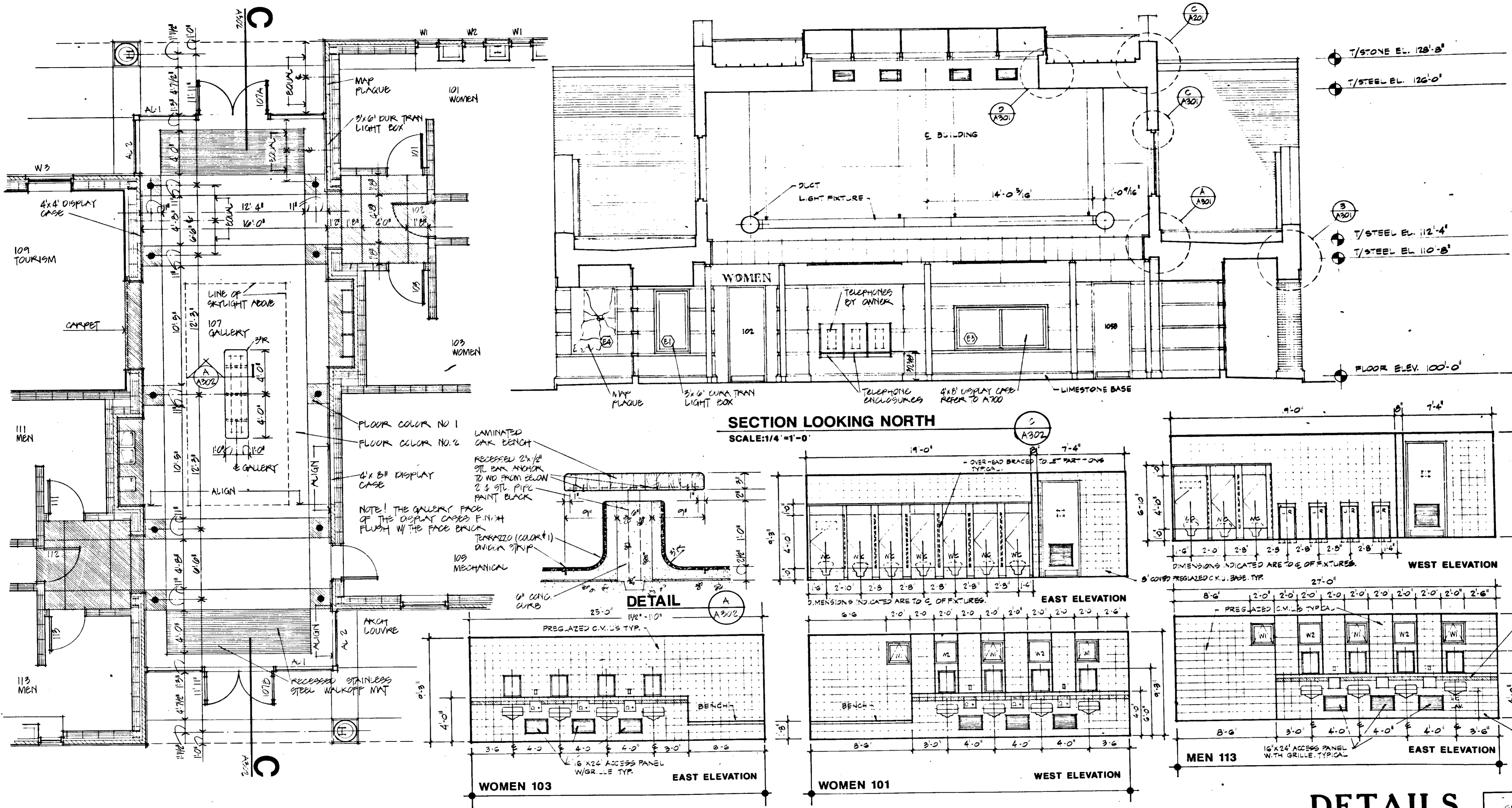
DETAILS
BUILDING SECTIONS/DETAILS

R-19057



FEDERAL ROAD REGION NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-11070-1000	1969	57	171

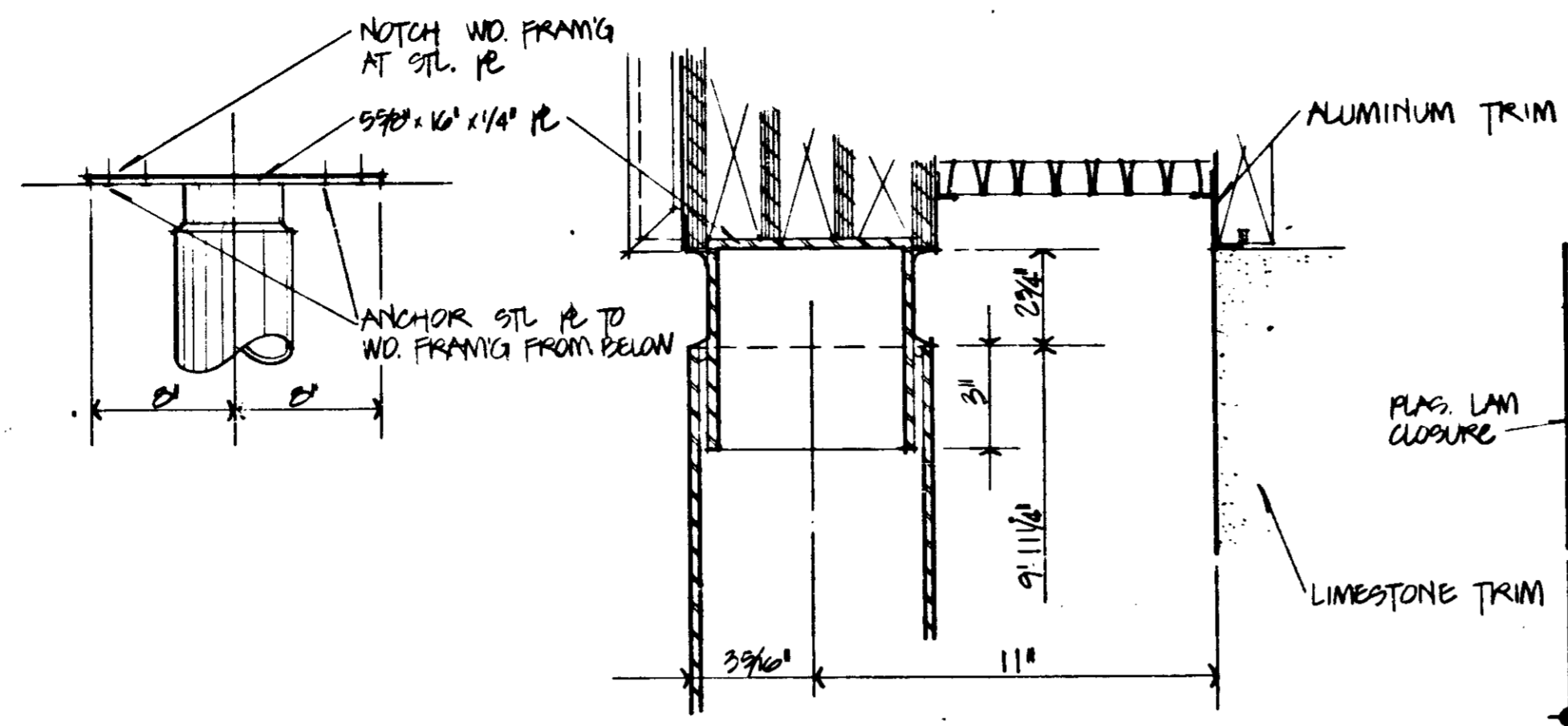
A302



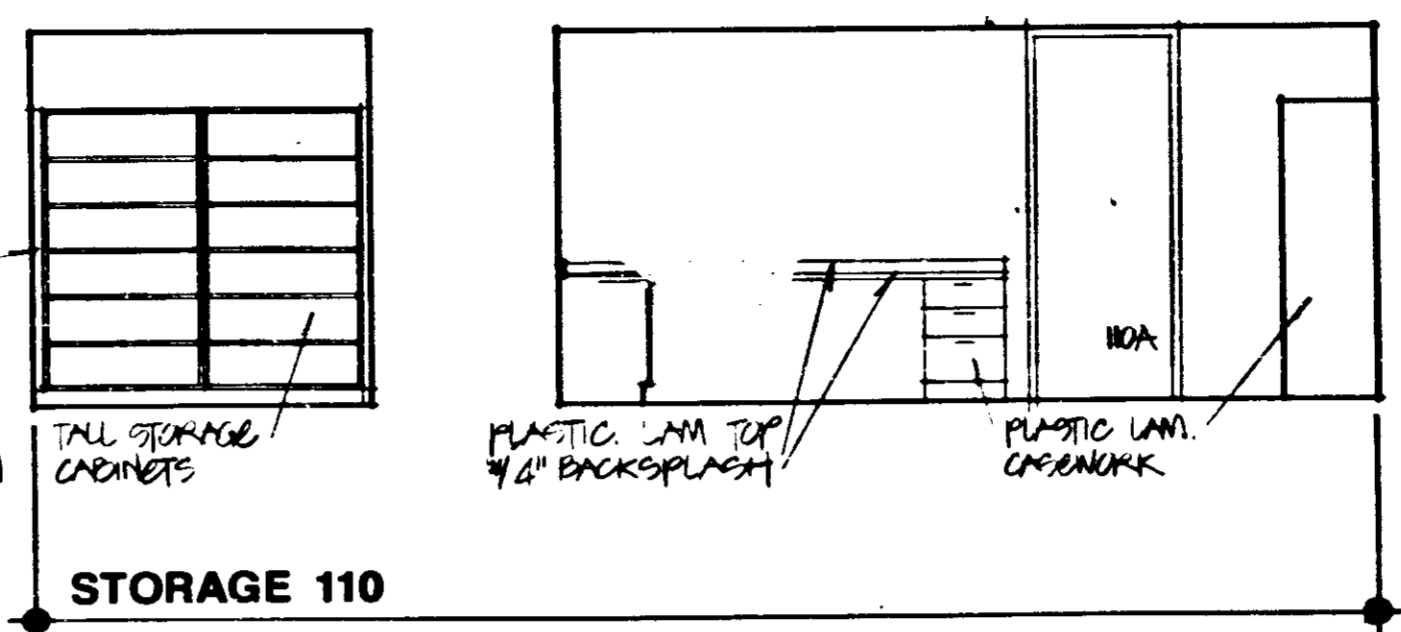
DETAILS
ENLARGED GALLERY PLAN/BUILDING SECTIONS AND INTERIOR ELEVATIONS
R-19057



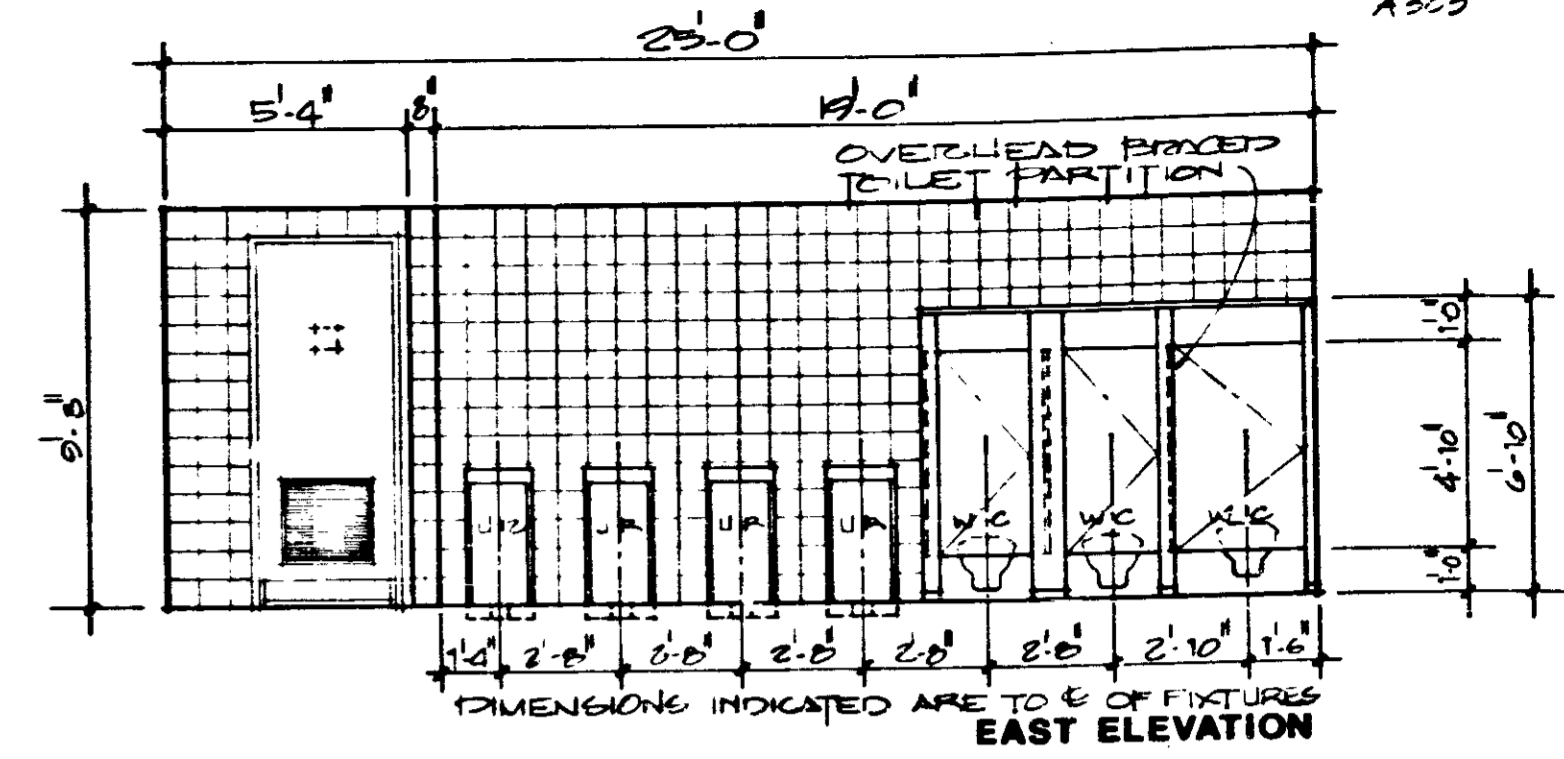
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IND 1070 (1010)	1989	68	171



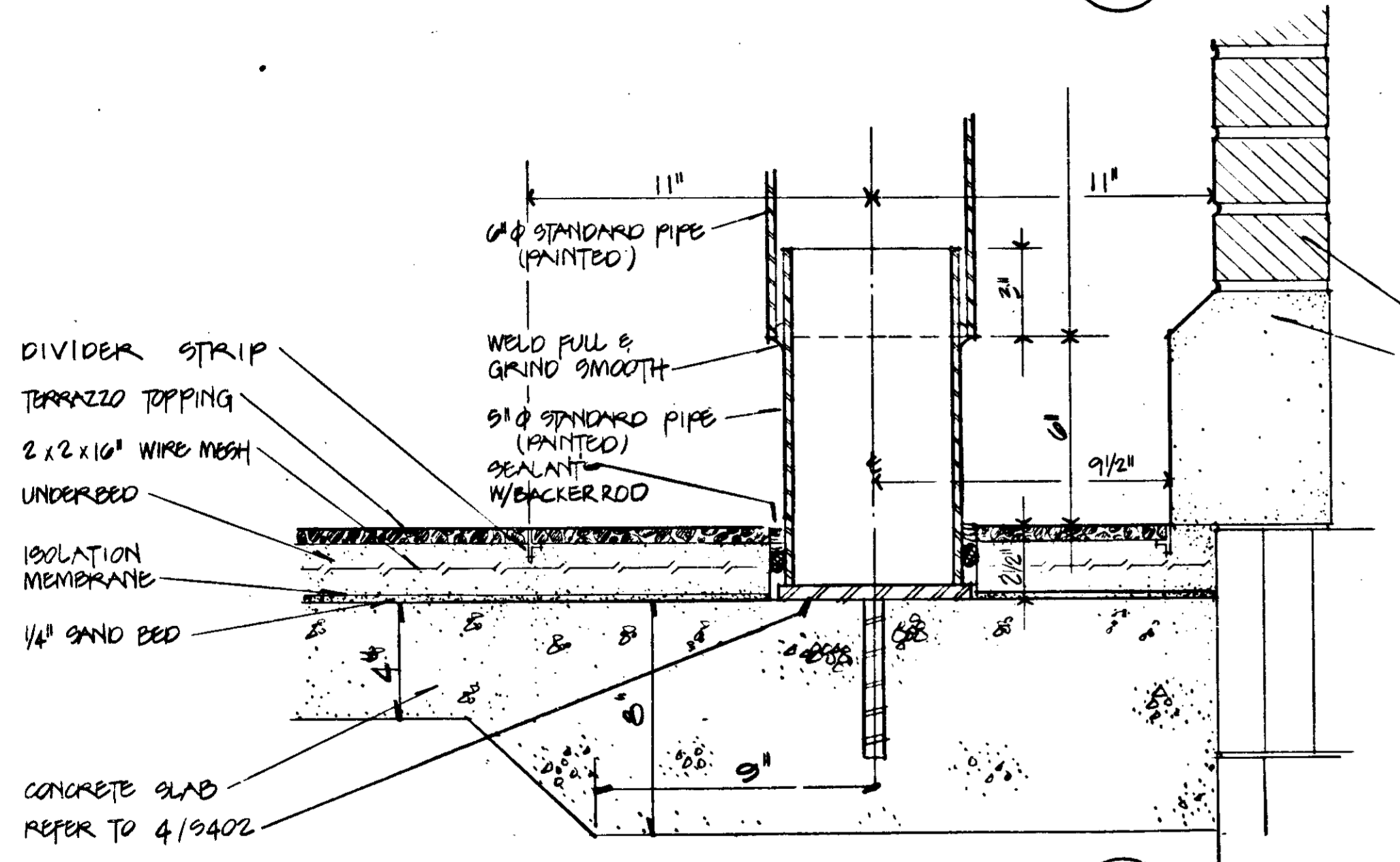
DETAIL B
A303



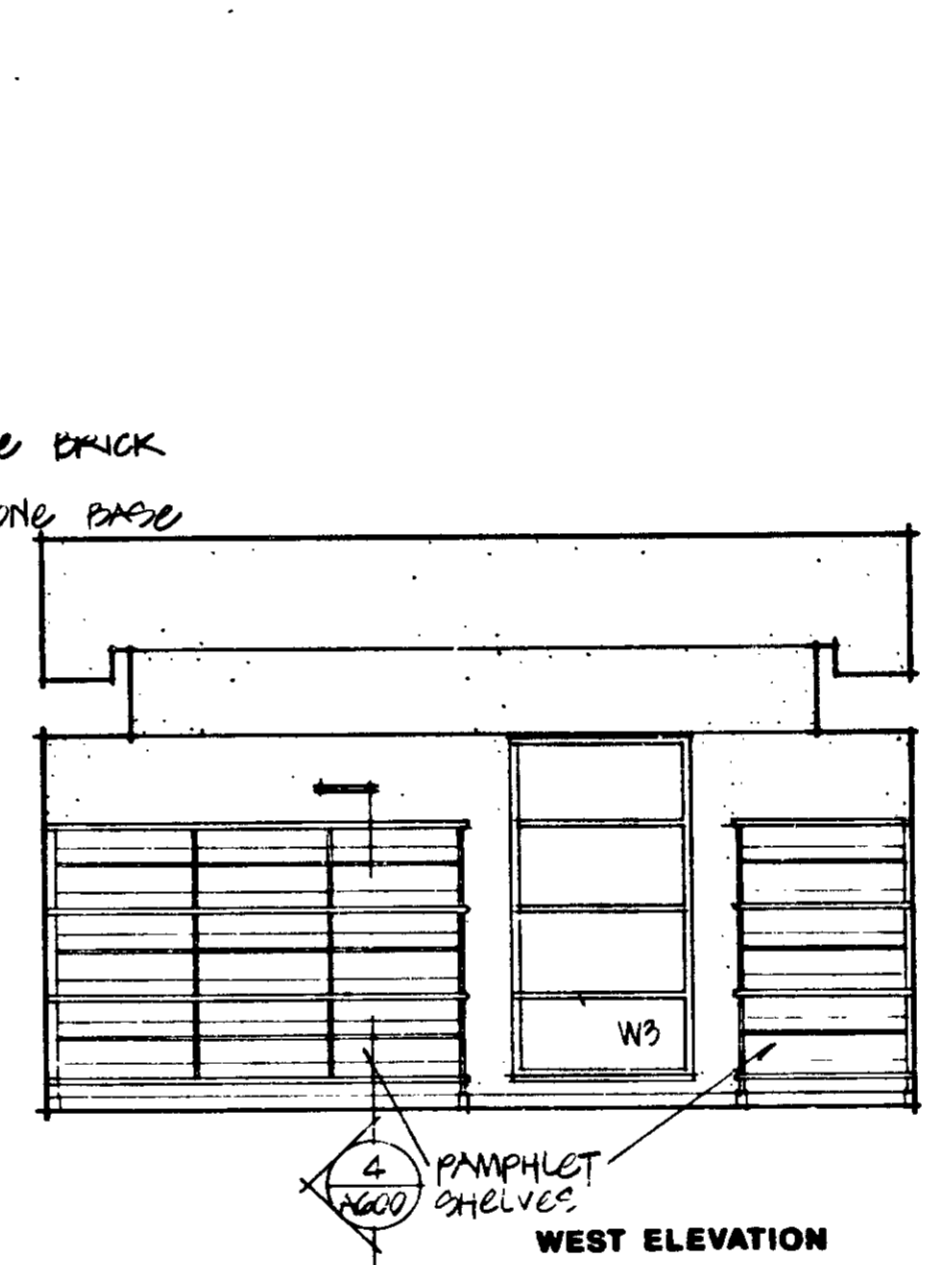
STORAGE 110



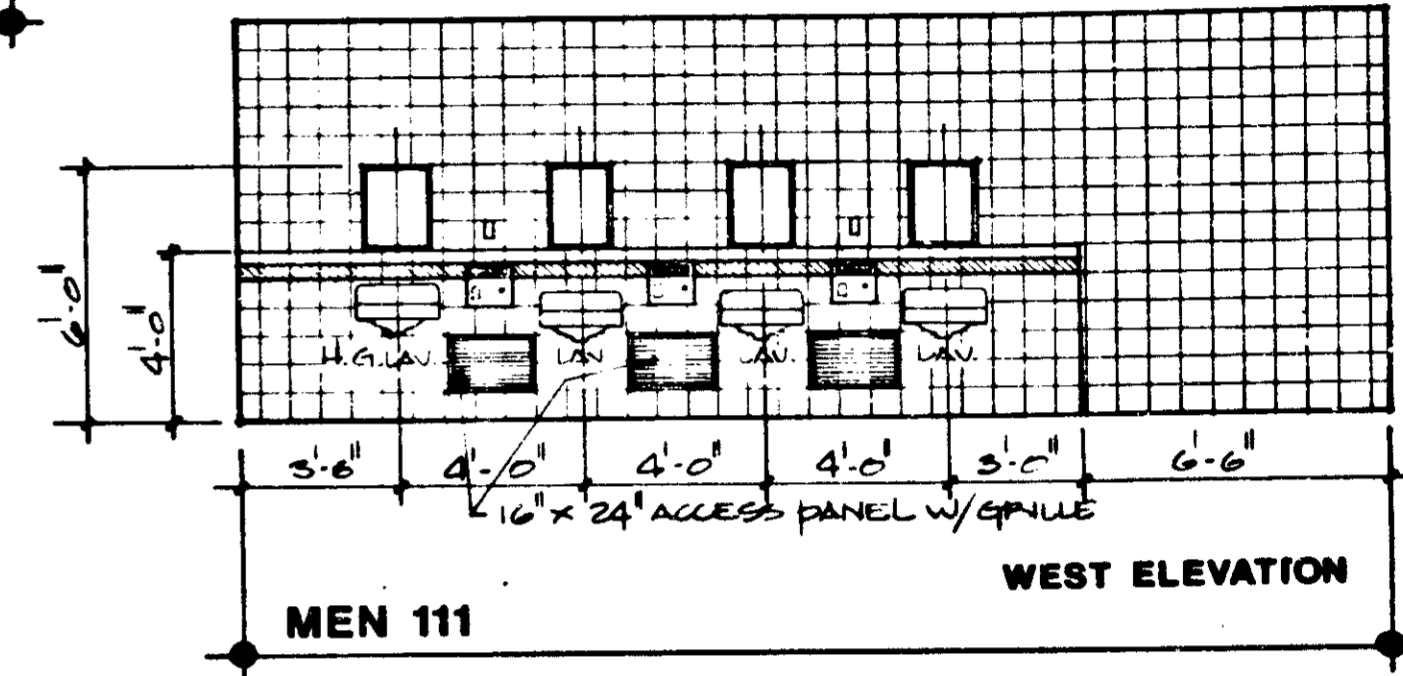
EAST ELEVATION



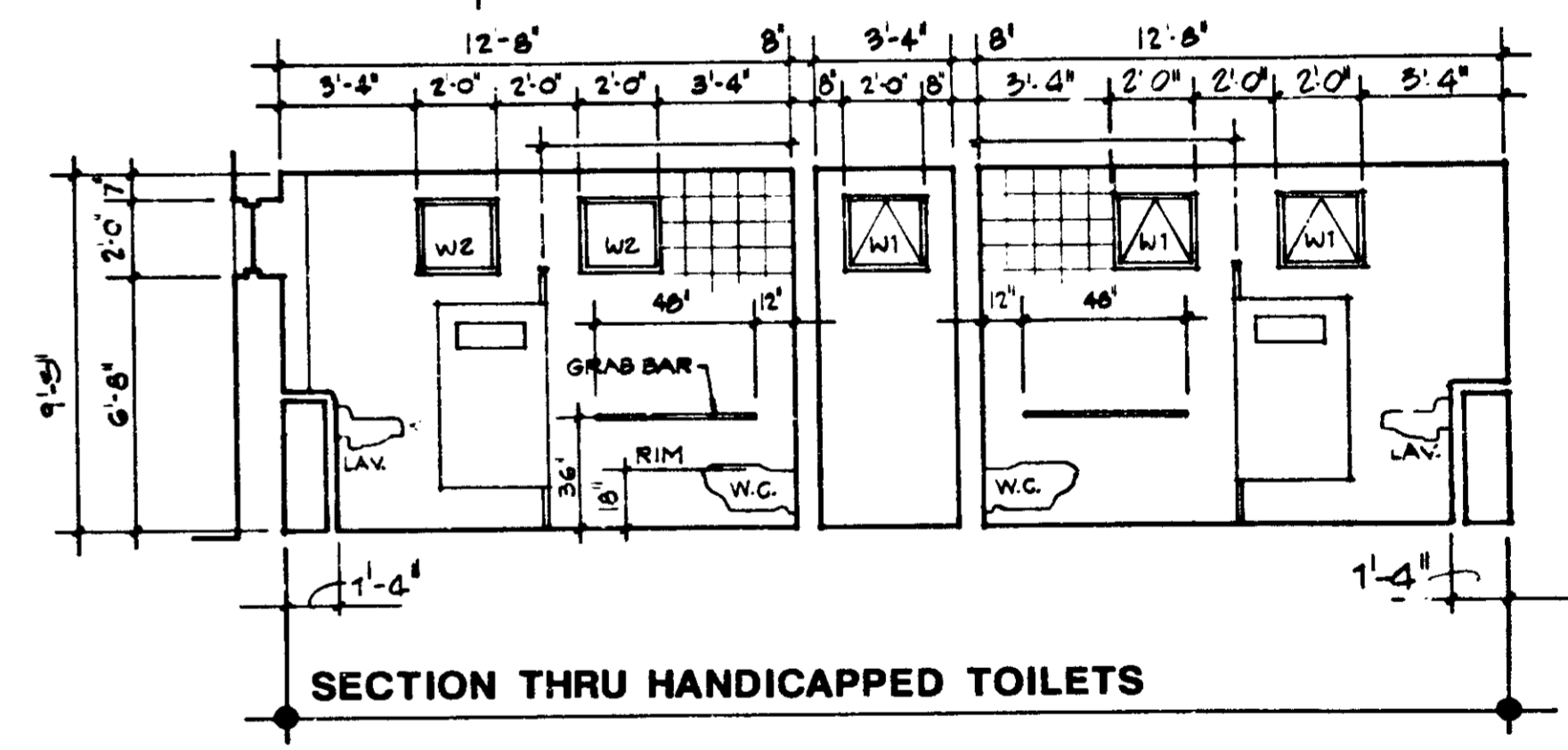
DETAIL A
A303



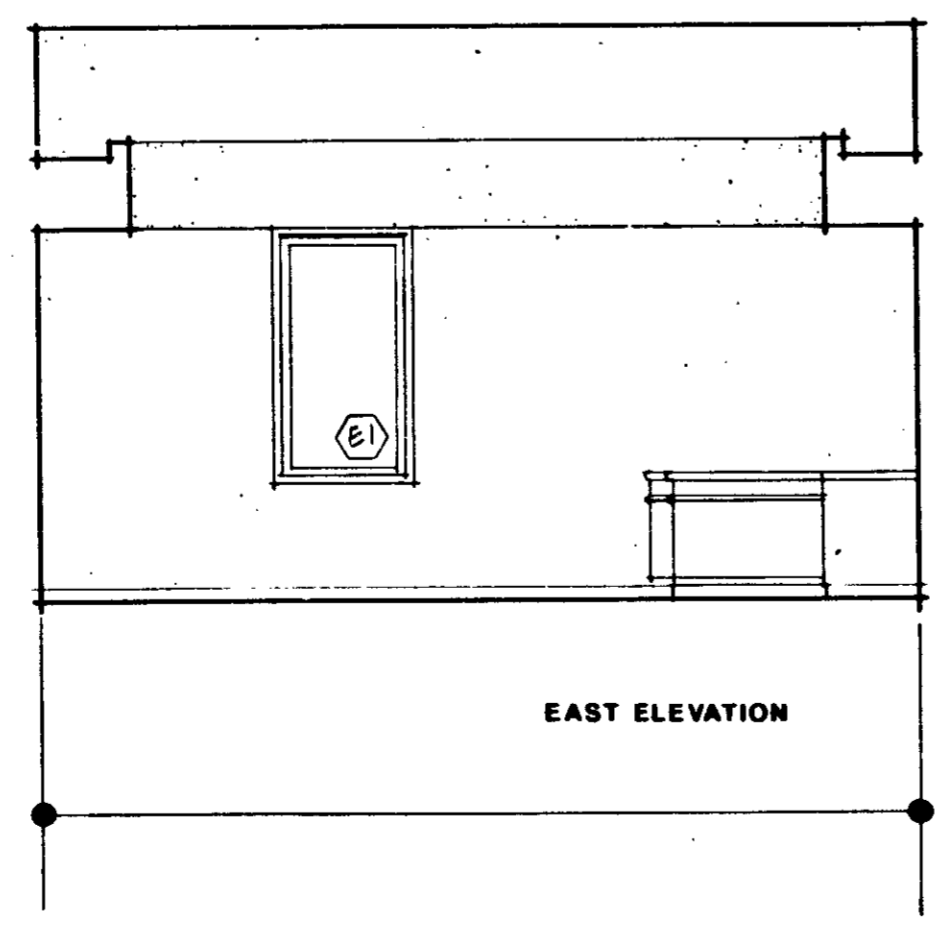
WEST ELEVATION



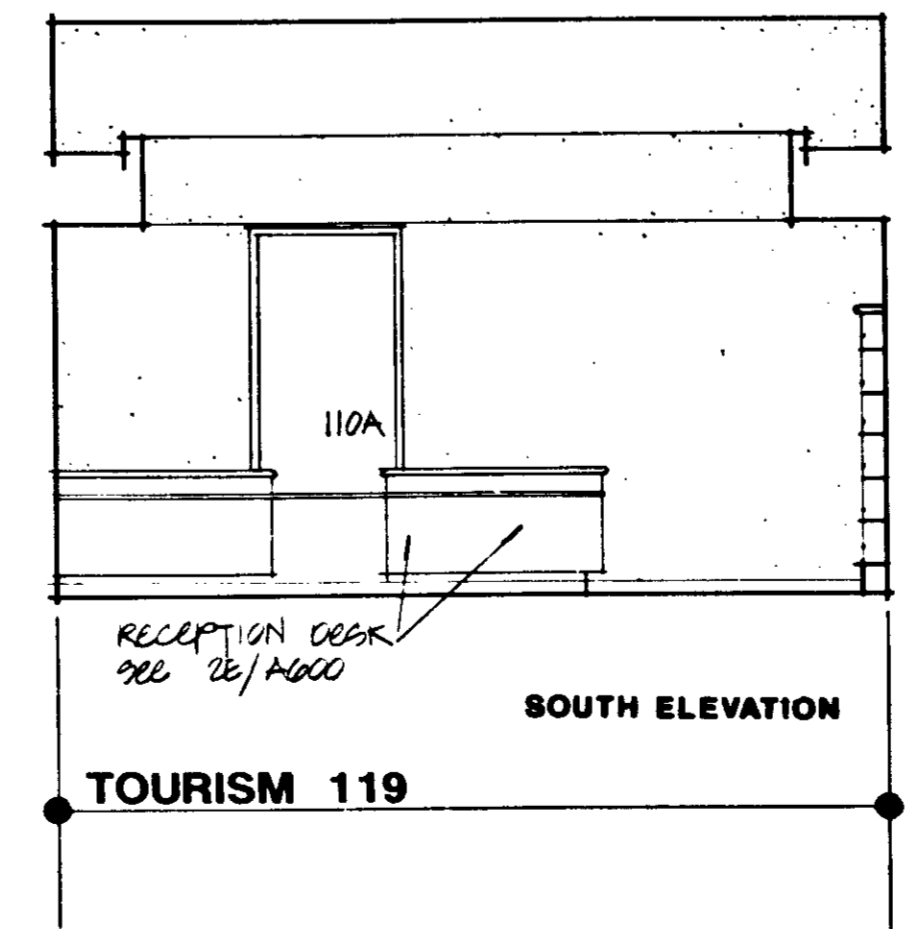
MEN 111



SECTION THRU HANDICAPPED TOILETS



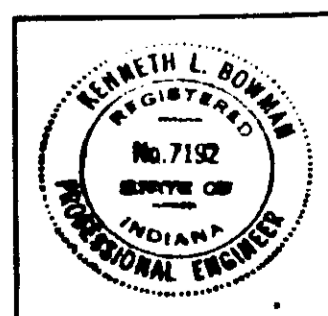
EAST ELEVATION



TOURISM 119

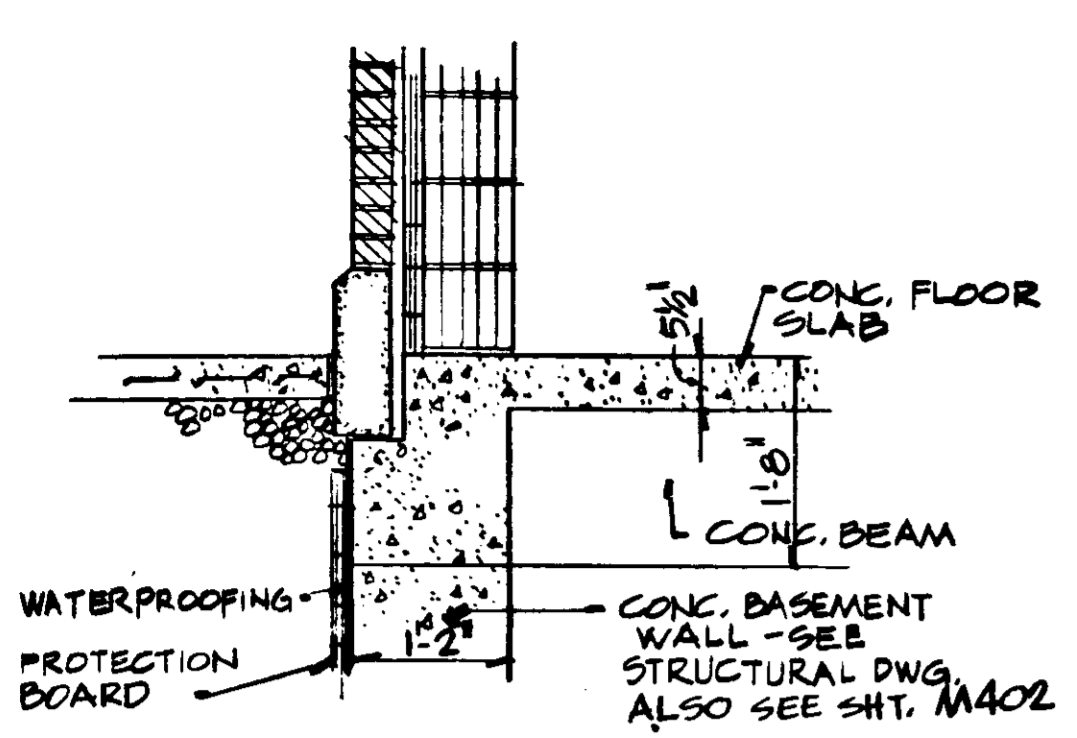
DETAILS
INTERIOR ELEVATIONS

R-19057

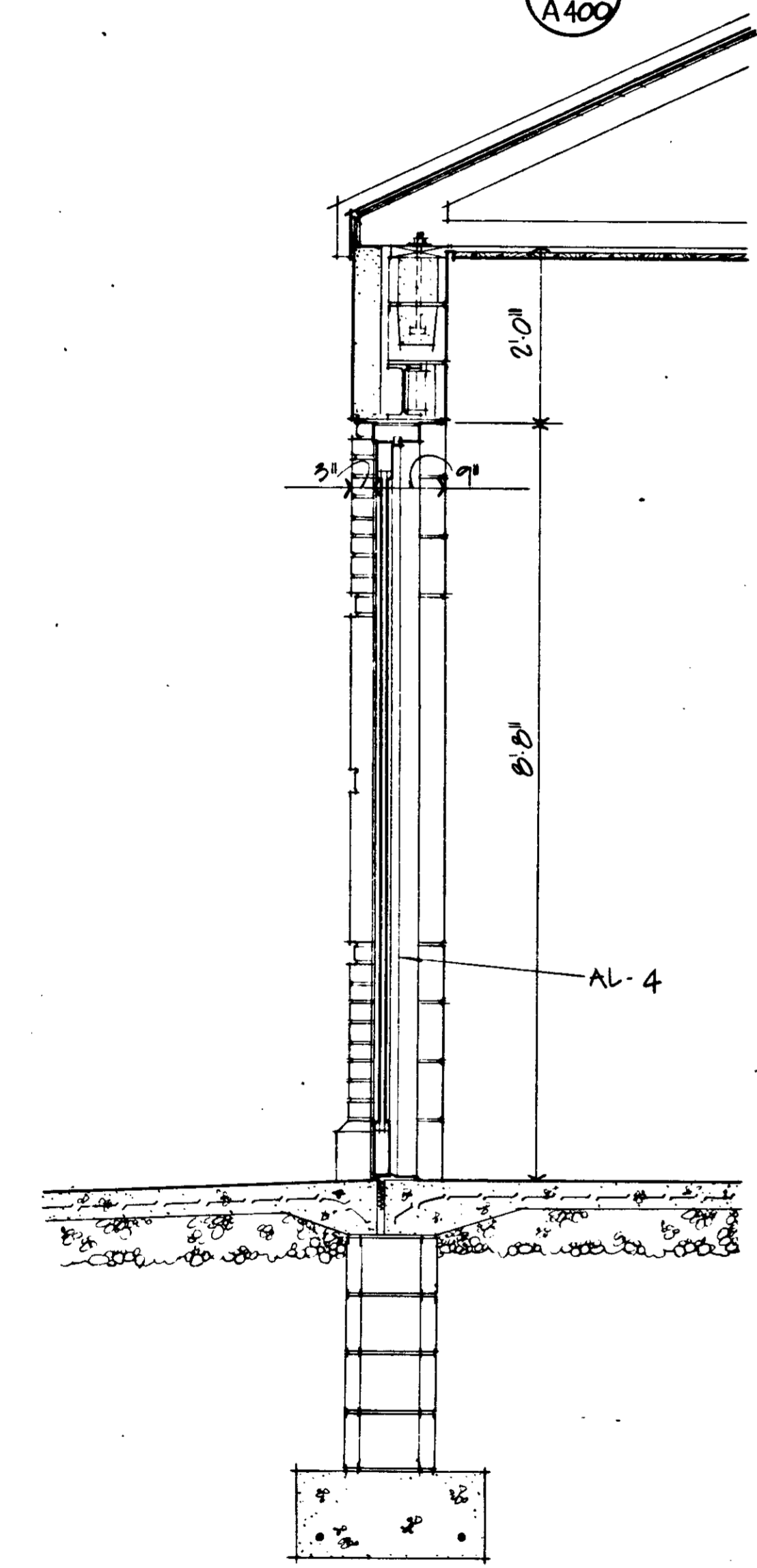


REVISION: APRIL 9, 1980 TO DETAIL A/A303.

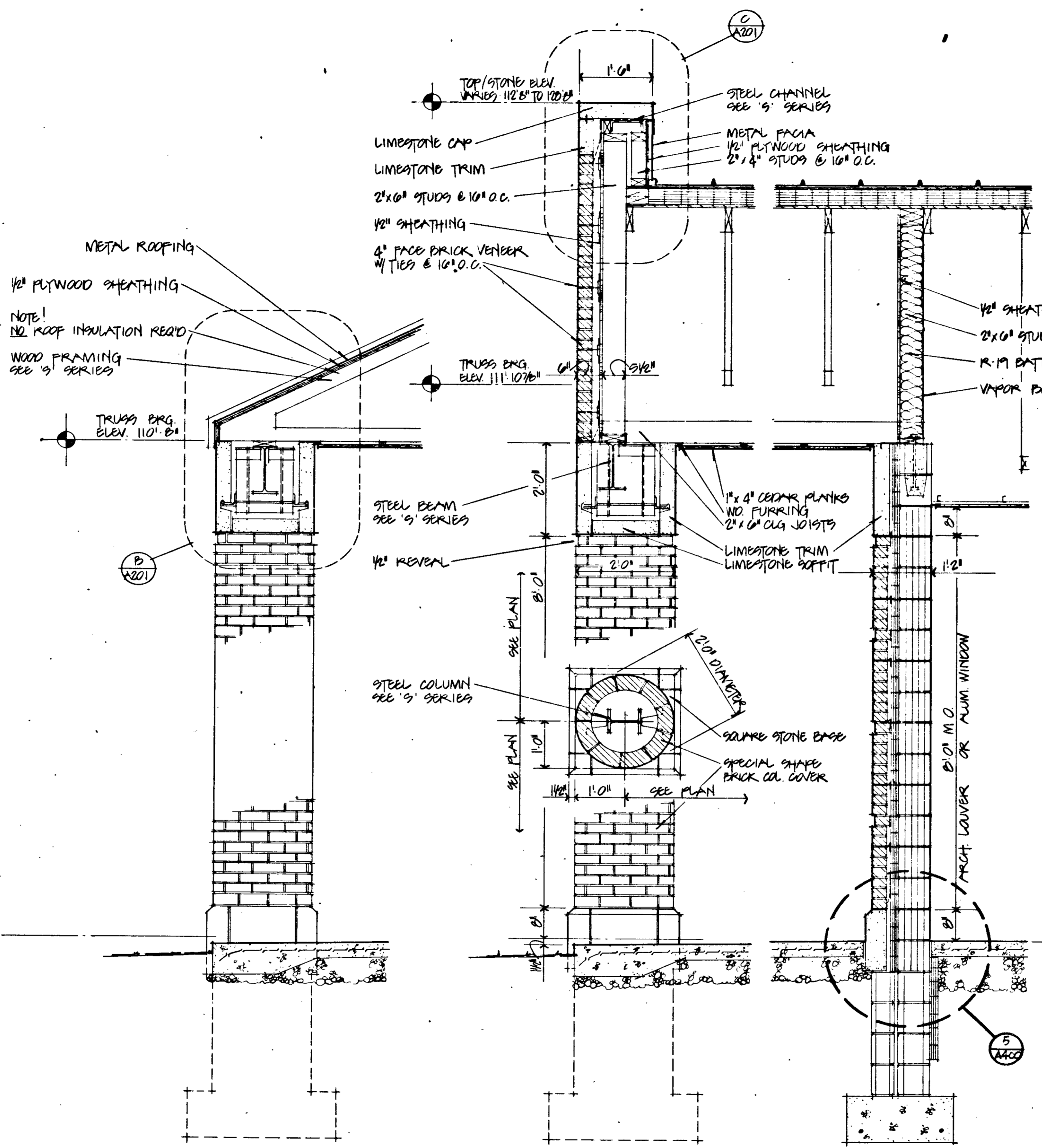
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	R-19057	1989	57	171



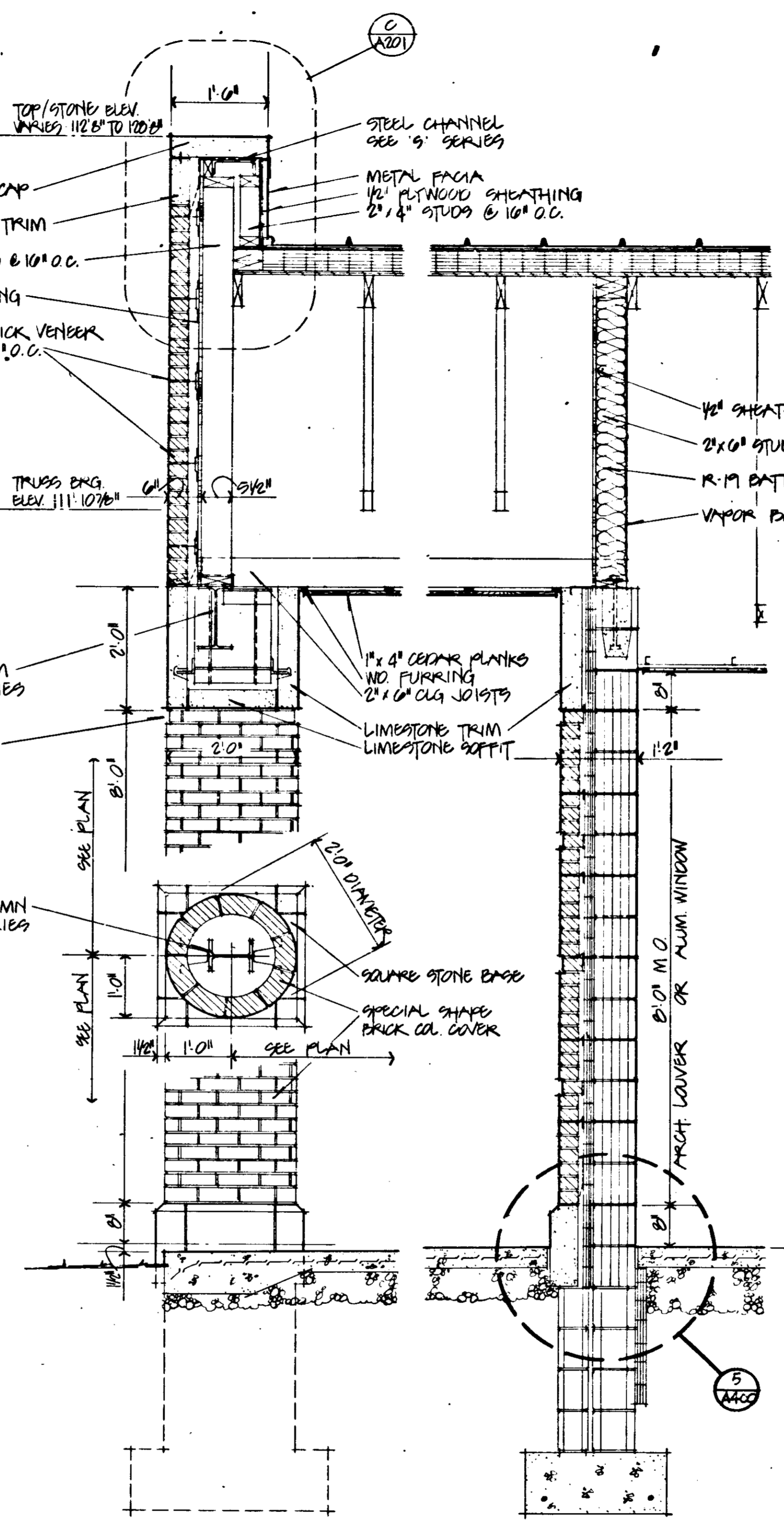
WALL SECTION 5
A400



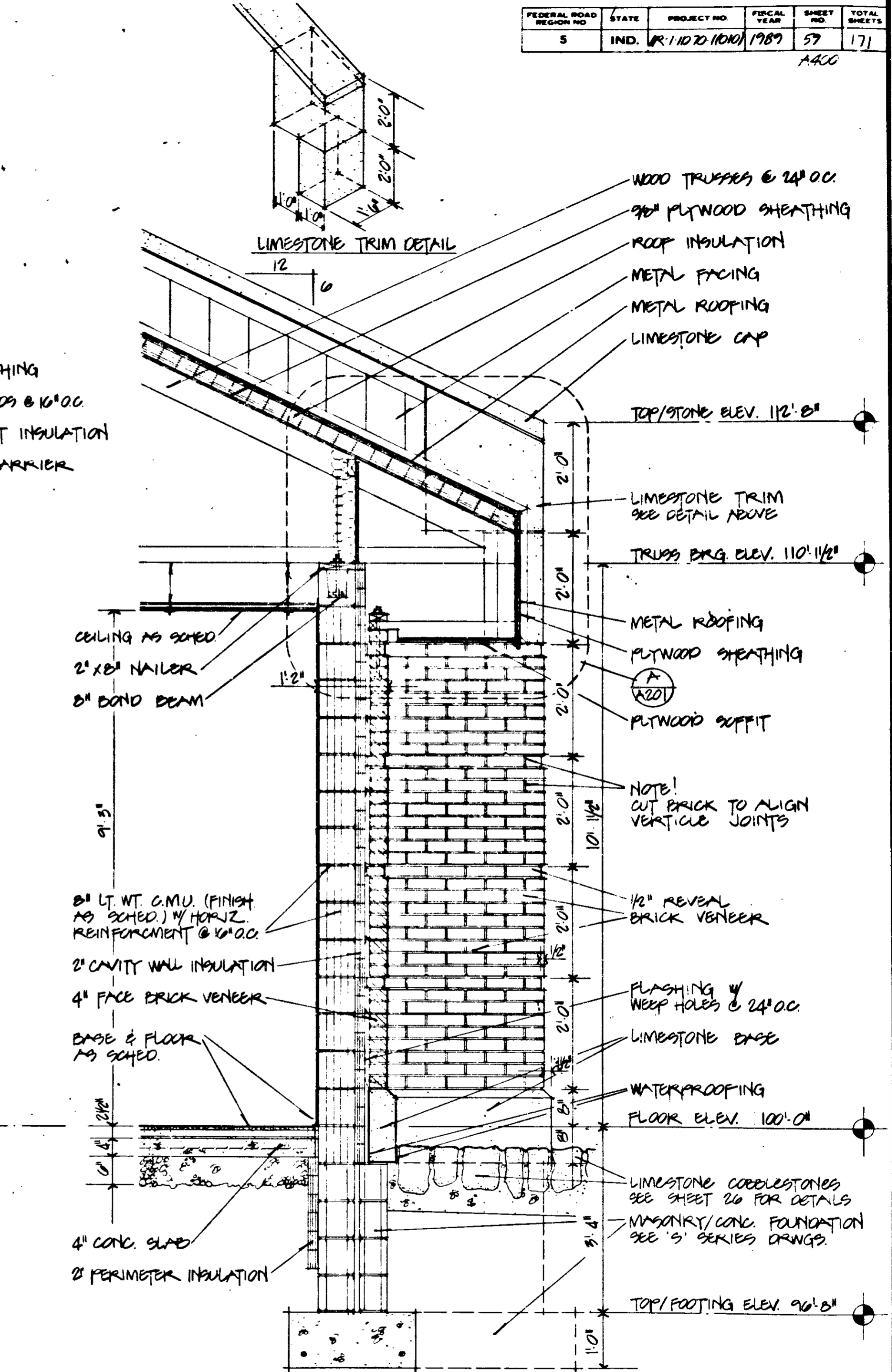
WALL SECTION 4
A400



WALL SECTION 3
A400



WALL SECTION 2
A400



WALL SECTION 1
A400

WALL SECTIONS

SCALE: 3/4" = 1'-0"

DETAILS



REVISION: APRIL 9, 1990, ADDED BASEMENT DETAIL

R-19057

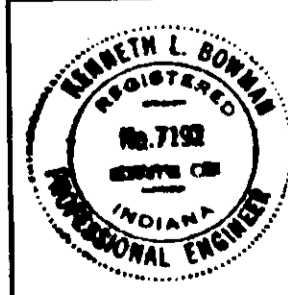
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	11R-11070 (10A)	1989	60	171

1
A-401

WALL SECTION
SCALE: 3/4" = 1'-0"

2
A-401

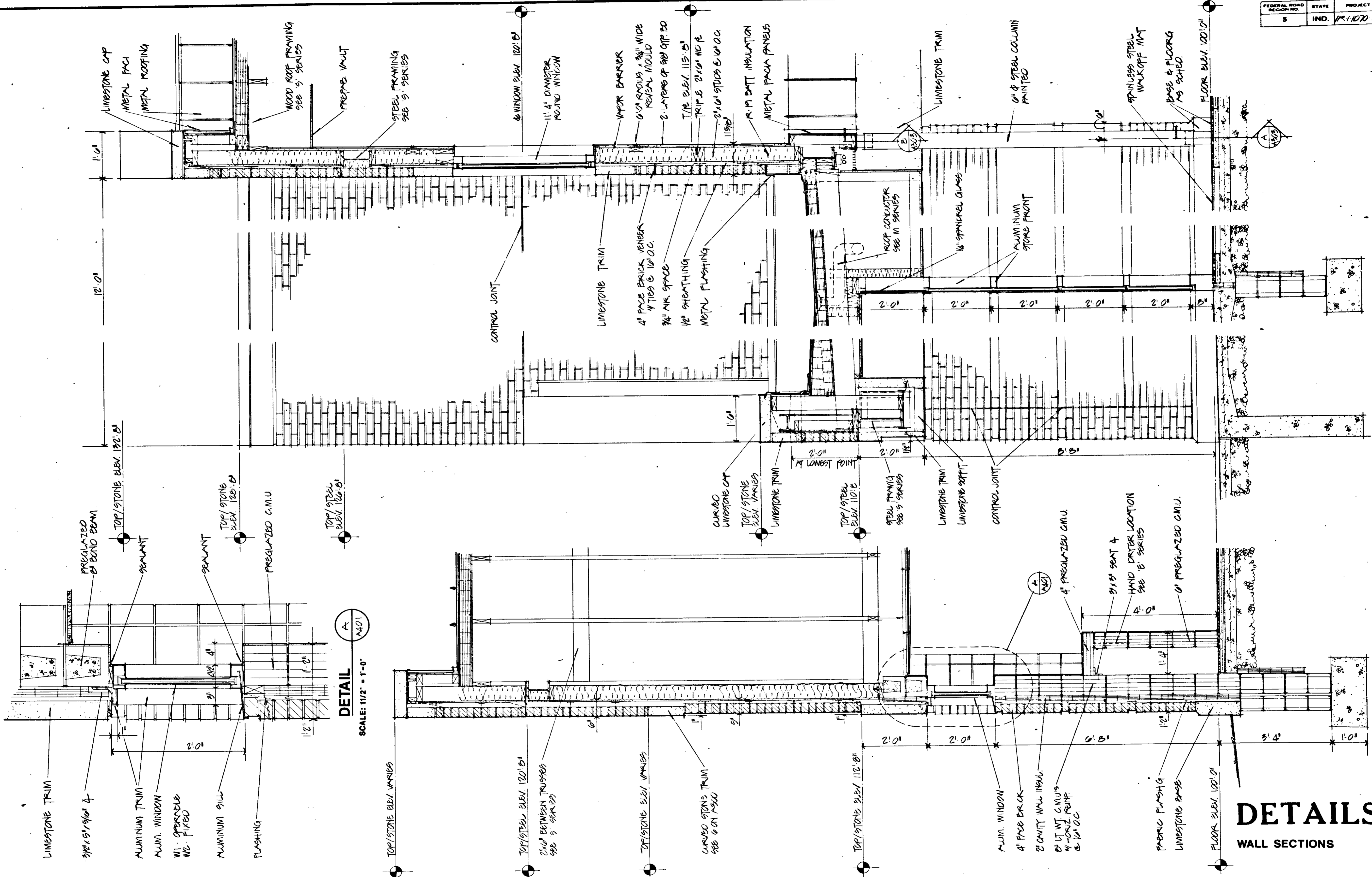
WALL SECTION
SCALE: 3/4" = 1'-0"

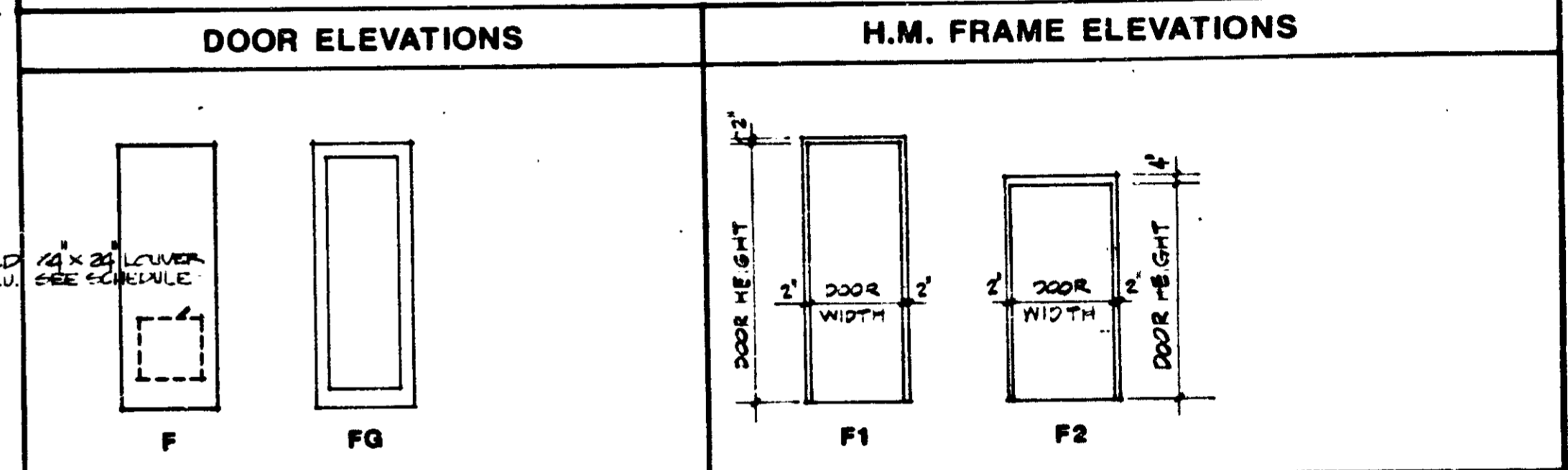
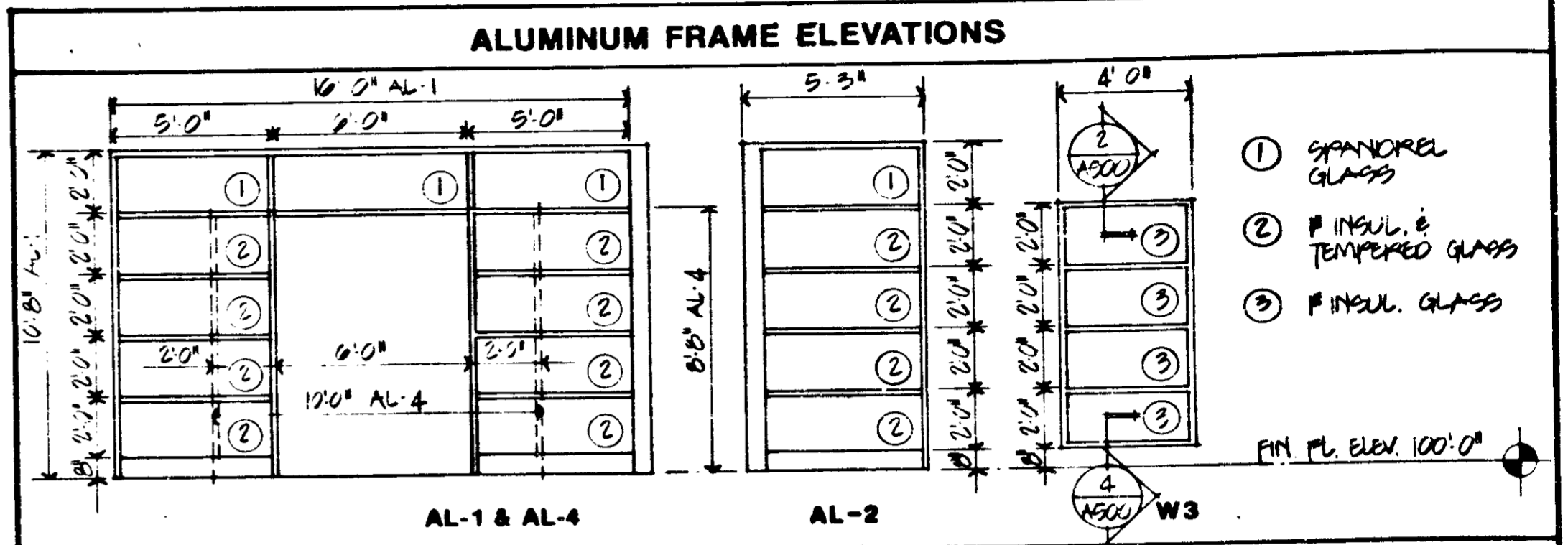
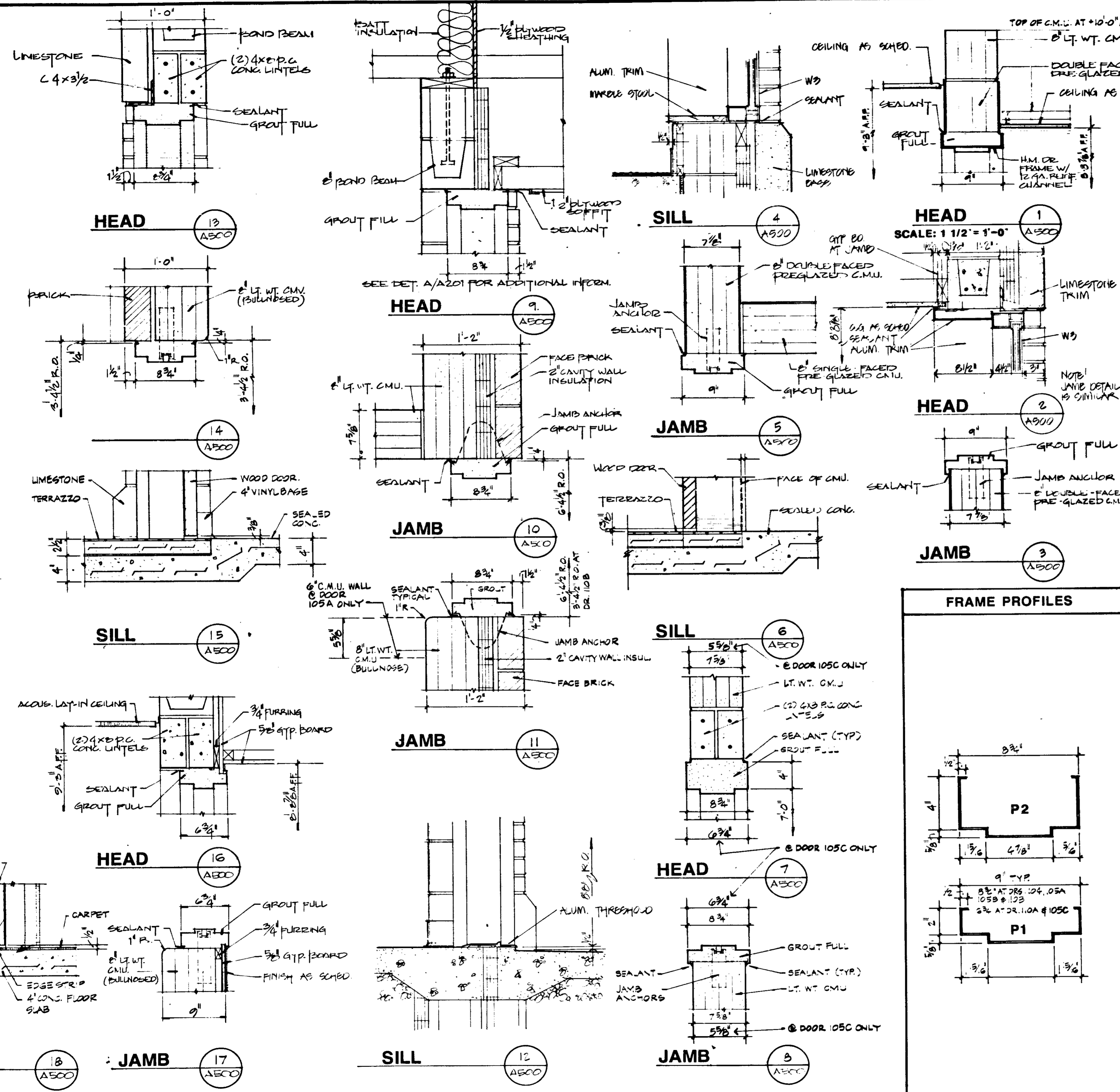


DETAILS

WALL SECTIONS

R-19057





OPENING NUMBER	DOOR										FRAME					LABEL	HARDWARE	REMARKS			
	SIZE		THICKNESS	MATERIAL	ELEVATION	GLASS	LOUVER		PROFILE	MATERIAL	ELEVATION	GLASS	DETAILS						FIRE RATING	SET NUMBER	KEYSIDE
	WIDTH	HEIGHT					WIDTH	HEIGHT					HEAD	JAMB	SILL						
101	3'-0"	8'-6"	1 1/2"	WO	F			24"	24"	P1	HM	F1		1	5	6			106		
102	3'-0"	8'-6"	1 1/2"	WO	F			24"	24"	P1	HM	F1		1	5	6			106		
103	3'-0"	8'-6"	1 1/2"	WO	F			24"	24"	P1	HM	F1		1	5	6			106		
104	3'-8"	7'-0"	1 1/2"	HM	F					P1, P2	HM	F2		7	8				105		
105A	6'-0"	8'-6"	1 1/2"	HM	F					P1	HM	F1		9	4	15			107	EXT. PR. 3'-0" X 8'-6" DRS.	
105B	3'-0"	8'-6"	1 1/2"	NO	F					P1	HM	F1		9	4	15			107		
107A	6'-0"	8'-6"	1 1/2"	AL	FG	*				AL	AL-1	**	†	†	†	†			109	EXT. PR. 3'-0" X 8'-6" DRS.	
107B	6'-0"	8'-6"	1 1/2"	AL	FG	*				AL	AL-1	**	†	†	†	†			109	EXT. PR. 3'-0" X 8'-6" DRS.	
105C	6'-0"	7'-0"	1 1/2"	HM	F					P1	HM	F2		7	8				105A		
109A	3'-0"	8'-6"	1 1/2"	WO	F					P1	HM	F1		16	17	18			109		
110B	3'-0"	8'-6"	1 1/2"	HM	F					P1	HM	F1		9	11	12			108	EXT.	
111	3'-0"	8'-6"	1 1/2"	NO	F			24"	24"	P1	HM	F1		1	5	6			108		
112	3'-0"	8'-6"	1 1/2"	NO	F			24"	24"	P1	HM	F1		1	5	6			108		
113	3'-0"	8'-6"	1 1/2"	NO	F			24"	24"	P1	HM	F1		1	5	6			108		
114A	6'-7"	5'-0"	1 1/2"	AL	FG	*				AL	AL-4	*	††	††	††	††			108	EXT. PR. 3'-0" X 8'-6" DRS.	
114B	6'-7"	5'-0"	1 1/2"	AL	FG	*				AL	AL-4	*	††	††	††	††			108	EXT. PR. 3'-0" X 8'-6" DRS.	
1001	5'-7"	3'-8"	-	A	-					EXPO	A	-		6" ALUM. GRILL						OVERHEAD CONG. GRILLE	

* 1" INSULATED & TEMPERED
 ** SEE ELEVATIONS ABOVE
 † SEE SECTION 1/A401
 †† SEE SECTION 4/A400

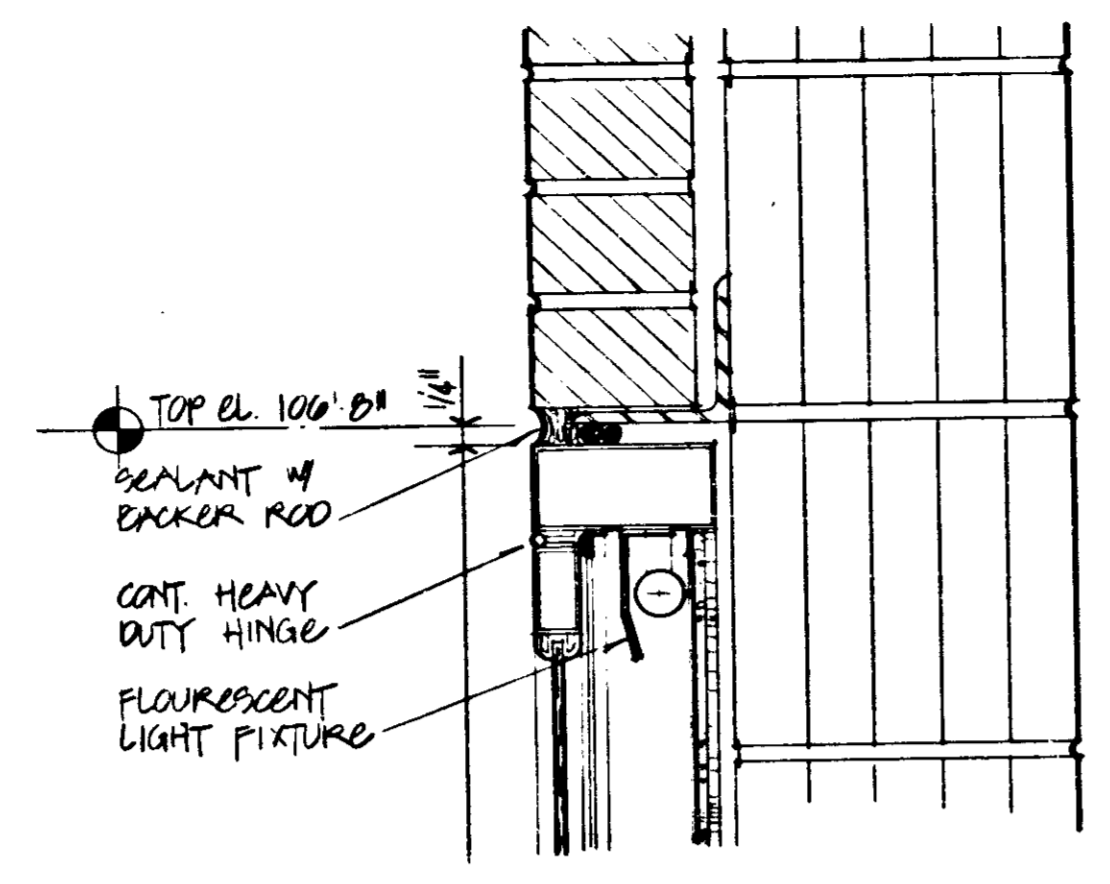
DETAILS

DOOR & FRAME SCHEDULE/DETAILS

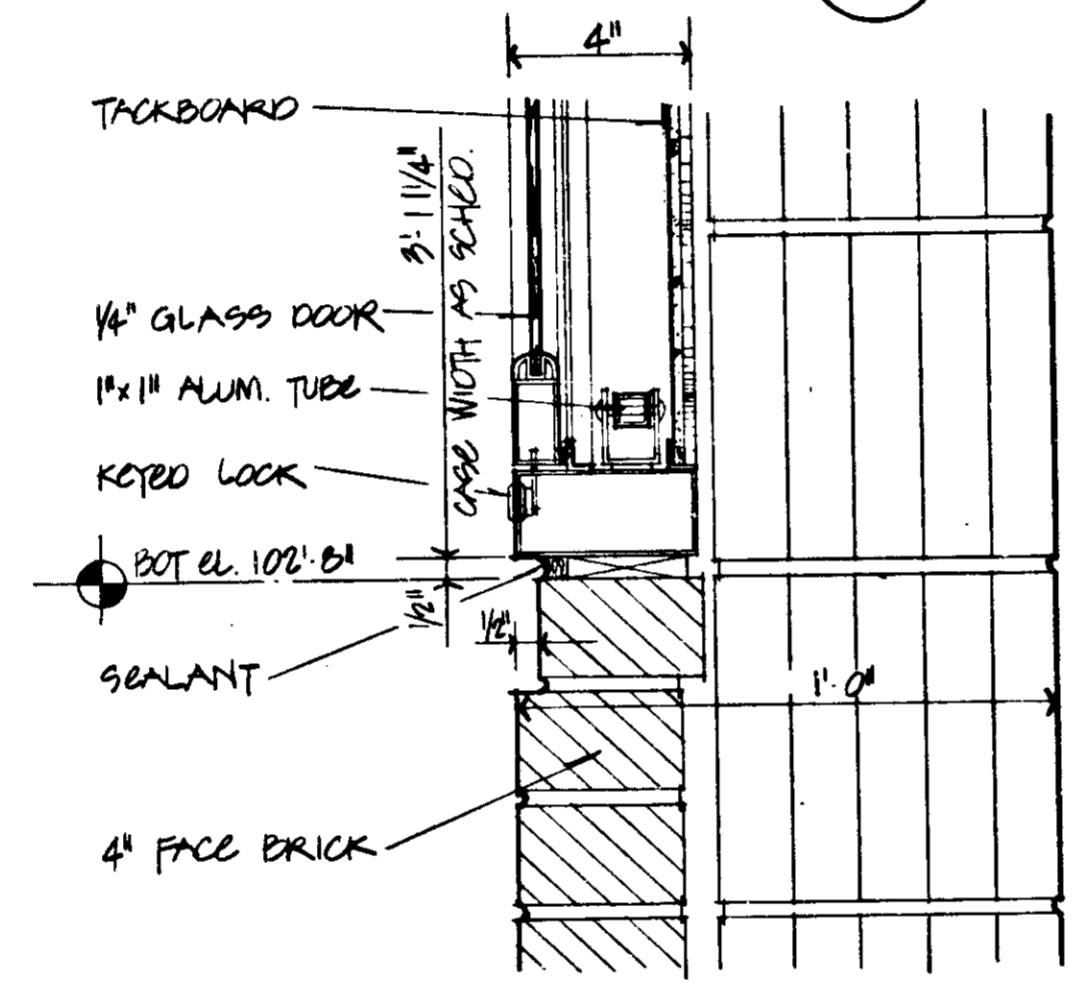


FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-1-D-70-1010	1979	62	171

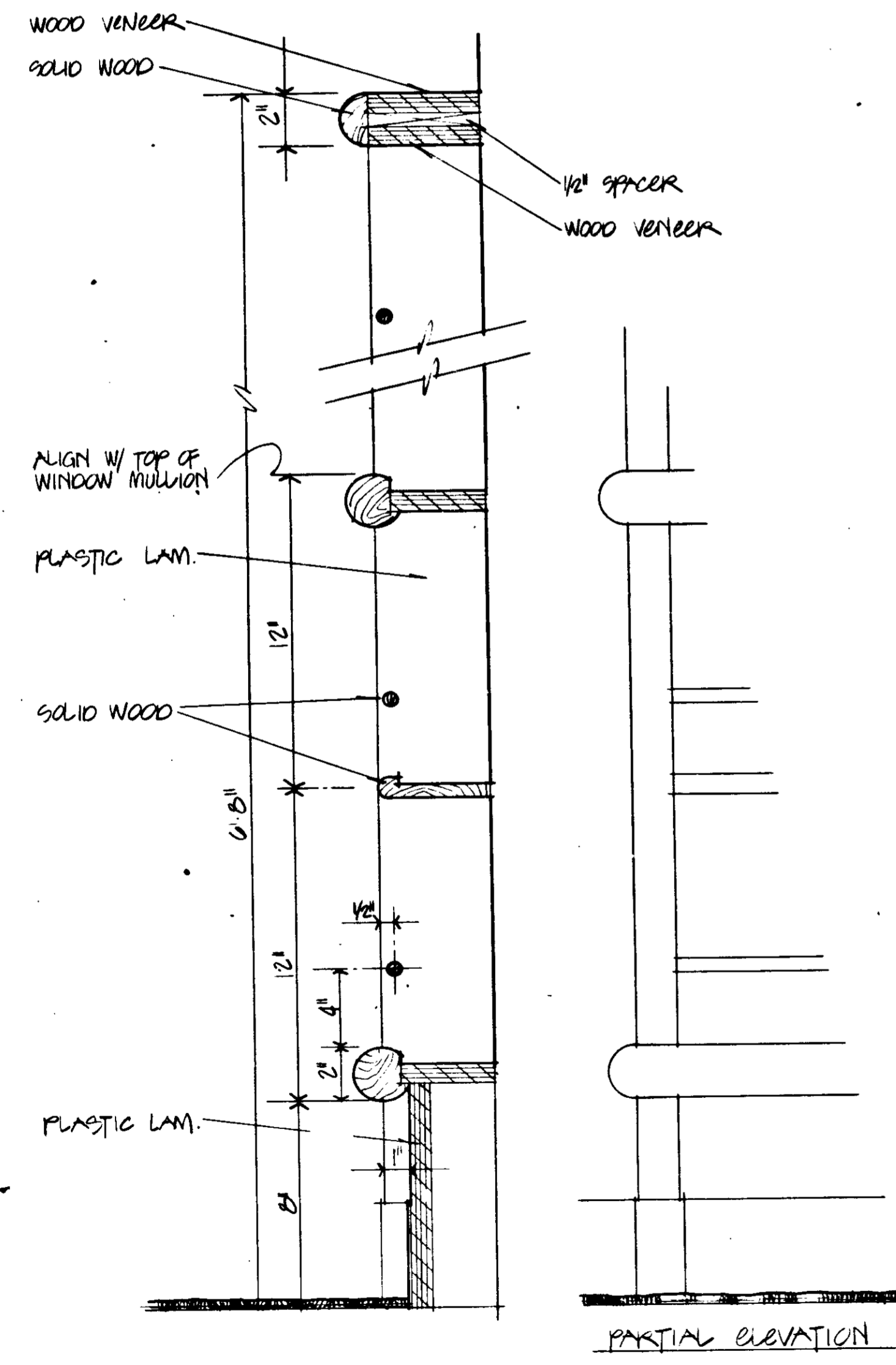
A600



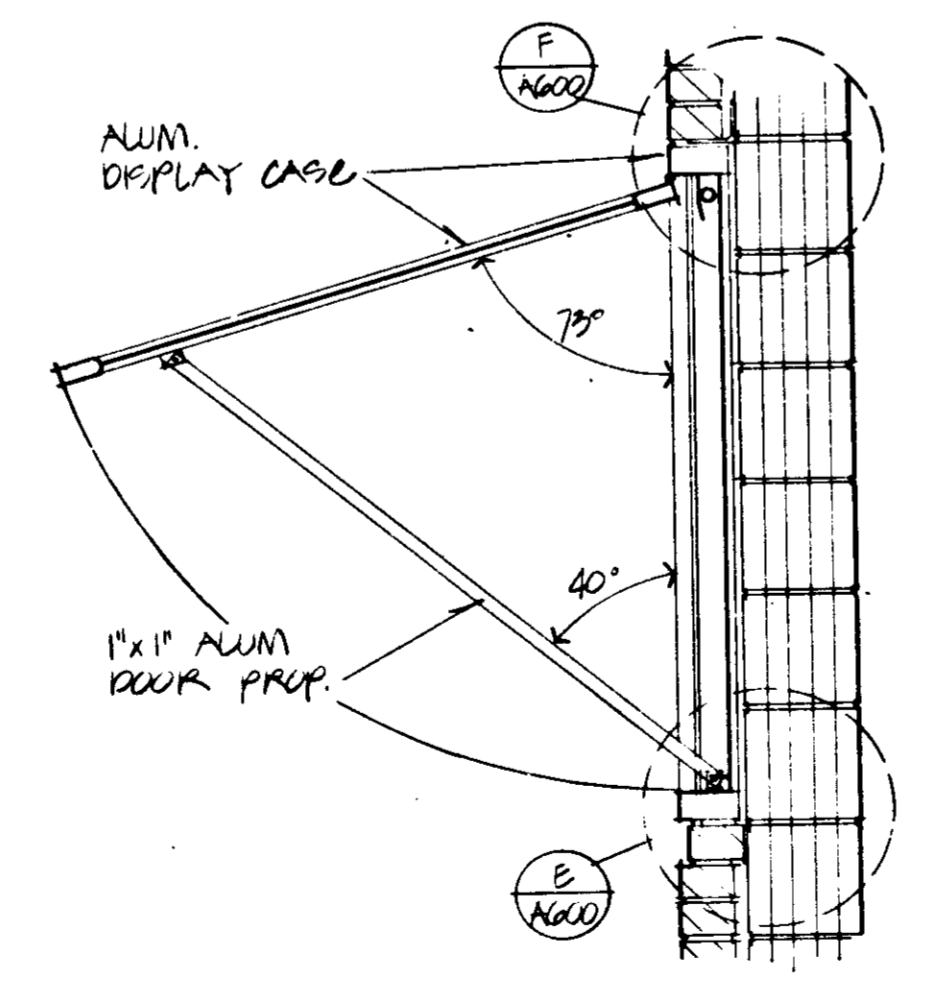
HEAD DETAIL F
SCALE: 3" = 1'-0"



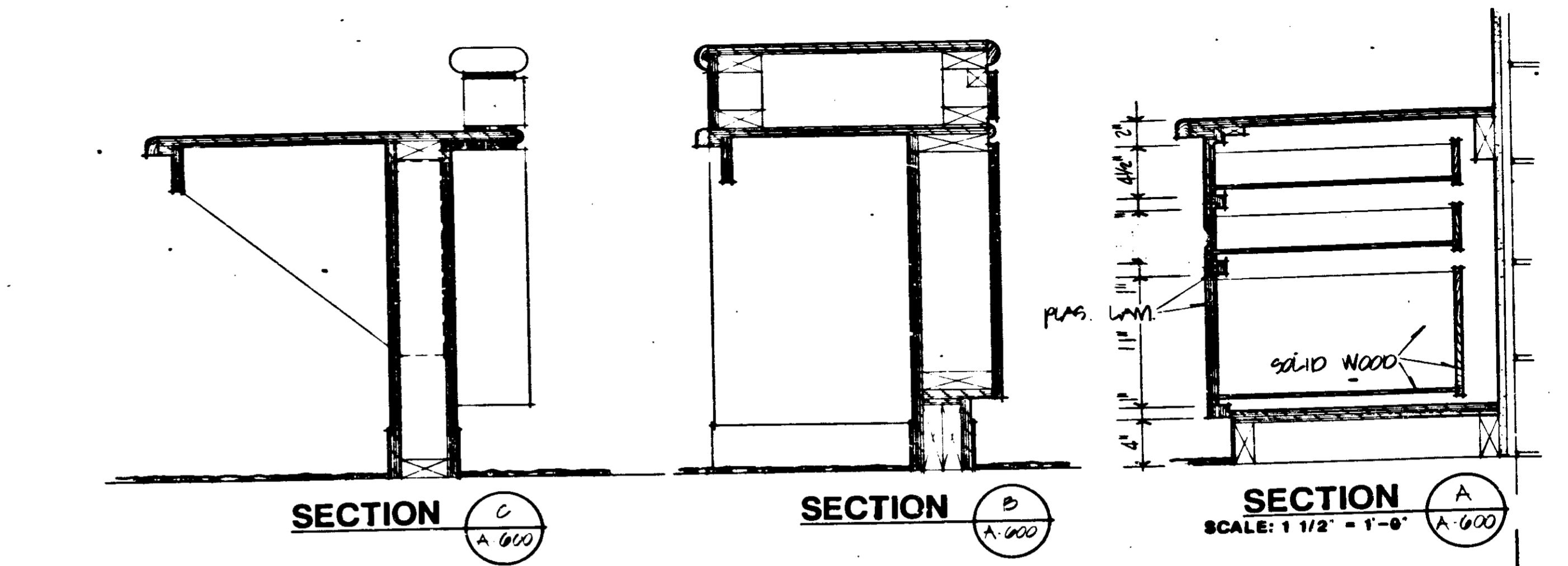
SILL DETAIL E
SCALE: 3" = 1'-0"



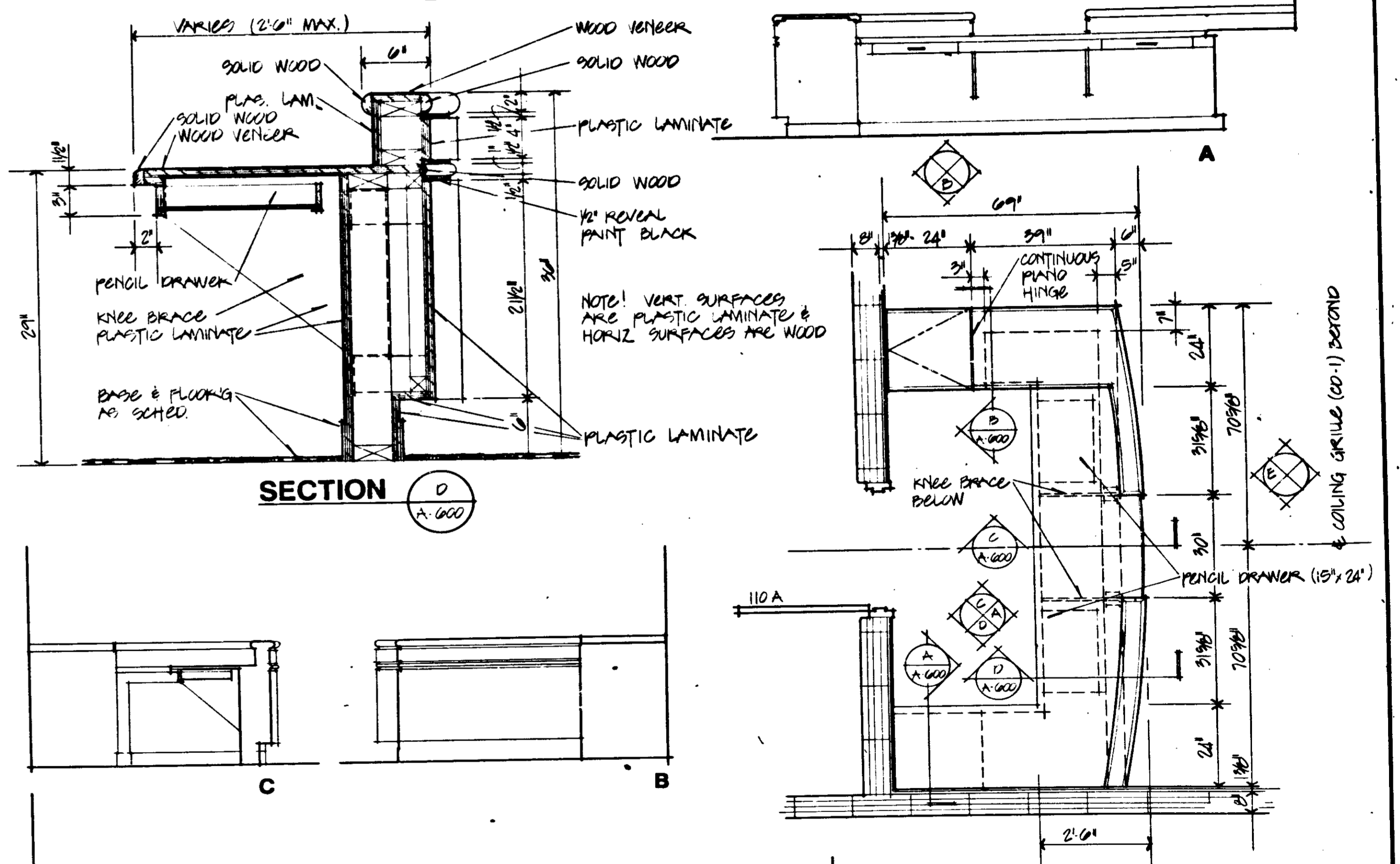
PAMPHLET SHELF SECTION 4
SCALE: 3" = 1'-0"



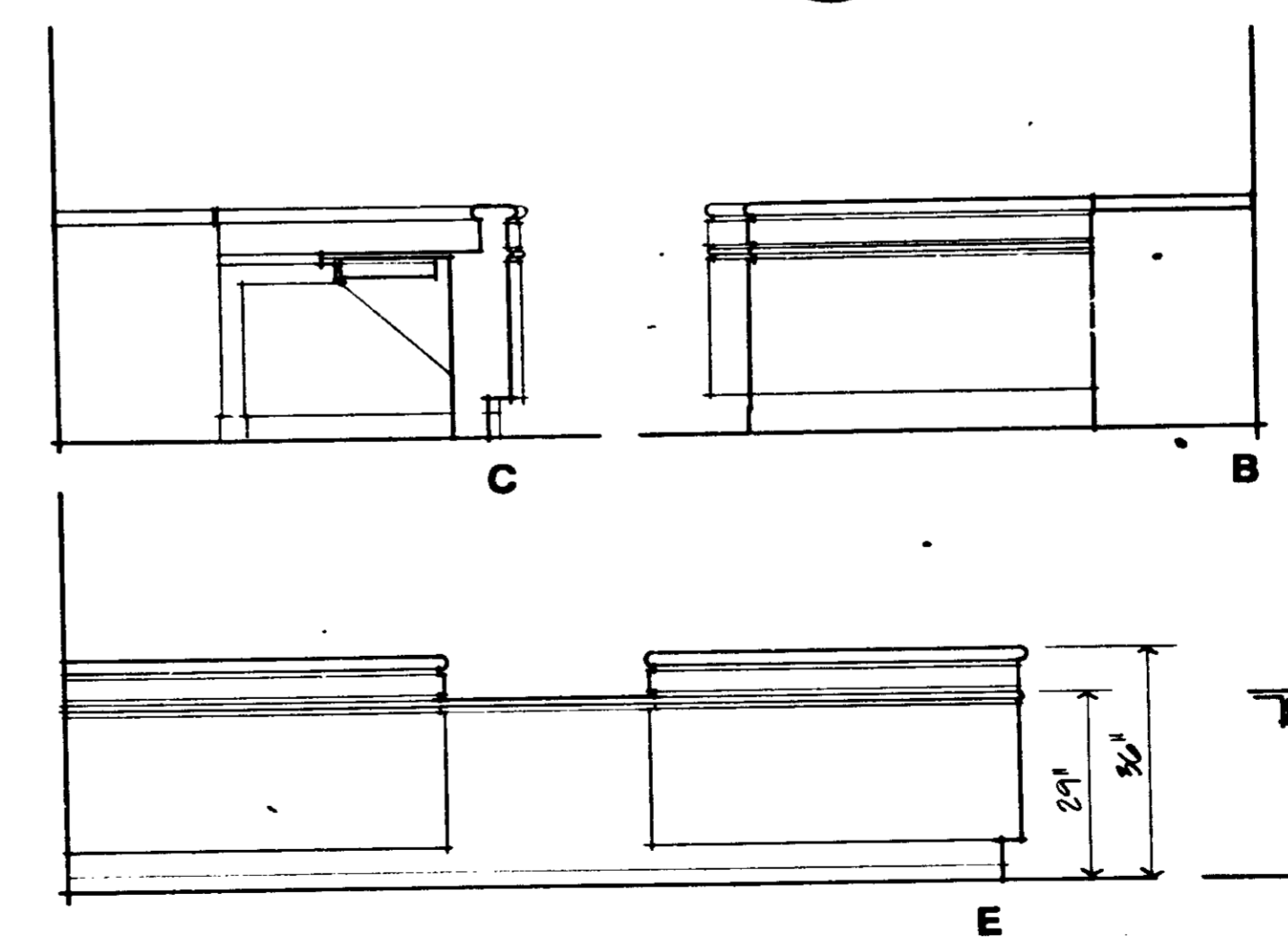
DISPLAY CASE SECTION 3
SCALE: 1" = 1'-0"



RECEPTION DESK ELEVATIONS 2
SCALE: 1 1/2" = 1'-0"



RECEPTION DESK PLAN 1
SCALE: 1/2" = 1'-0"

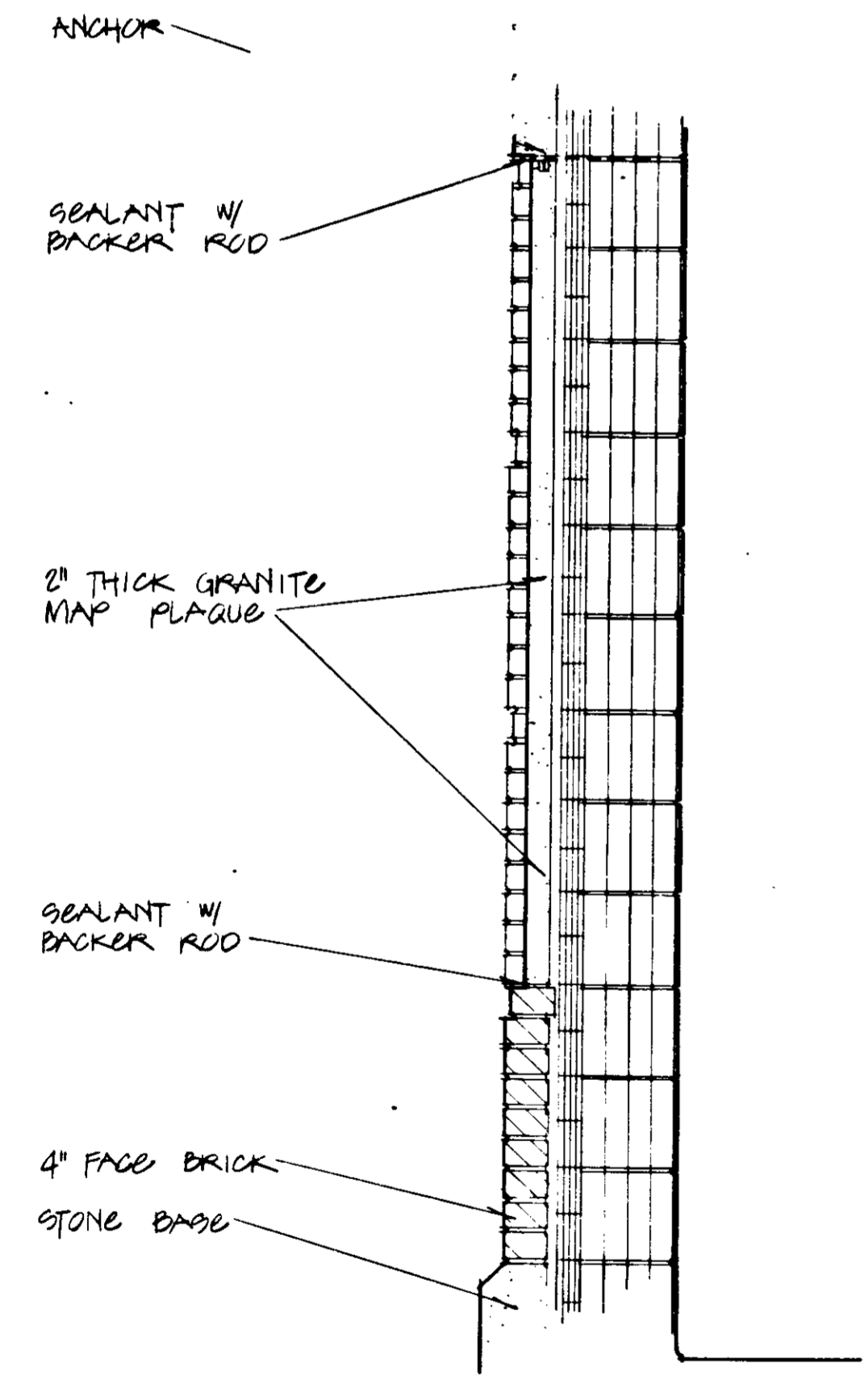
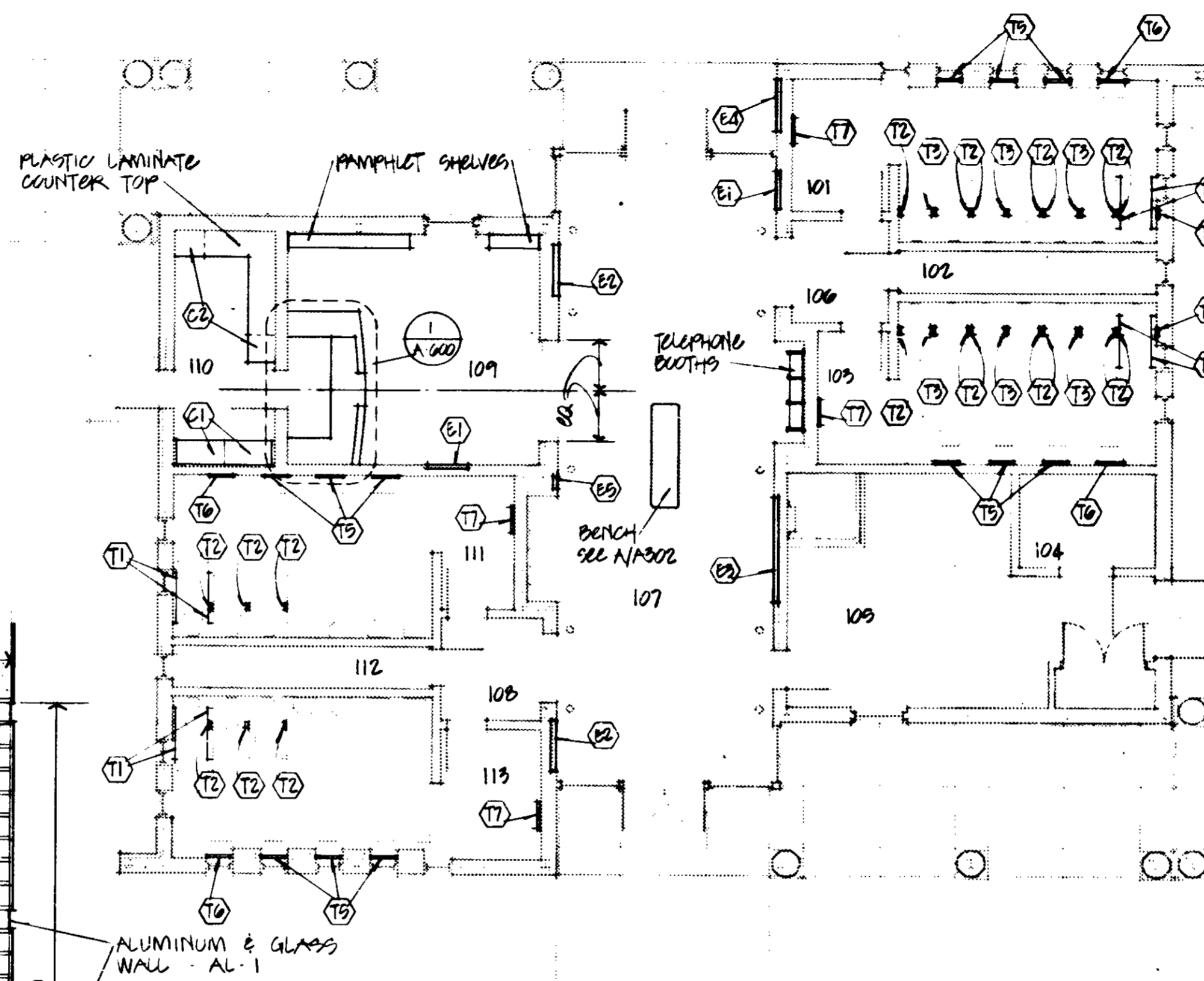


RECEPTION DESK ELEVATIONS 2
SCALE: 1/2" = 1'-0"

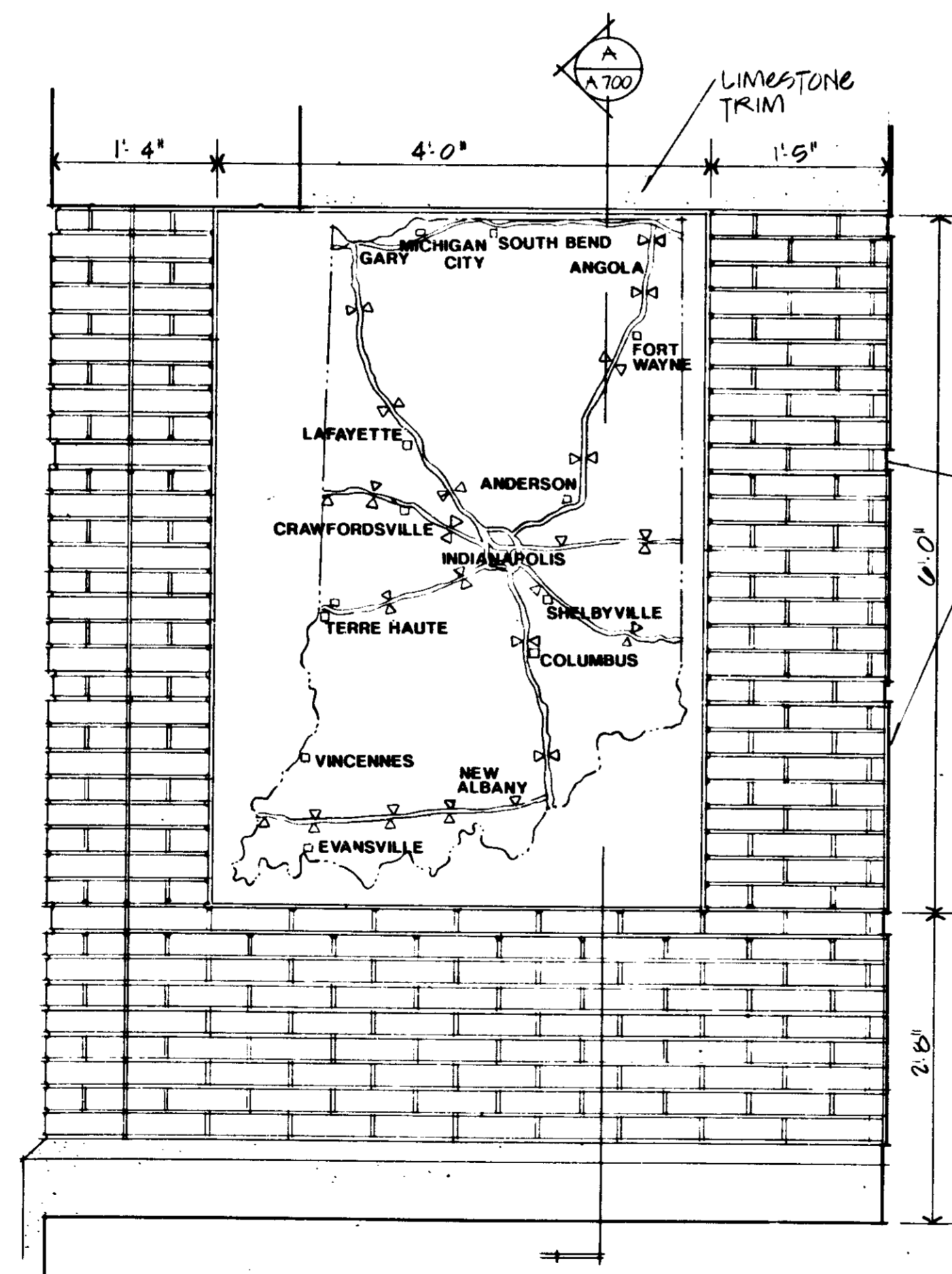
DETAILS
MISCELLANEOUS DETAILS

R-19057





SECTION A
A-700



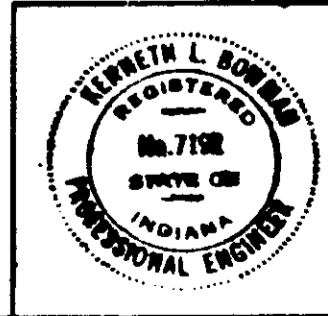
MAP PLAQUE ELEVATION I
SCALE: 1" = 1'-0"
A-700

EQUIPMENT SCHEDULE							
REMARKS	CATALOG NUMBER	MFG.	SIZE			DESCRIPTION	ITEM NO.
			W	D	H		
6" AT 30" A.F.F.	E 18016-99	ESSENICK	40"	-	-	GRAB BAR	T-1
6" ROLL AT 24" A.F.F.	9402	BRADLEY	5 1/2"	5 1/2"	10 1/2"	TISSUE DISPENSER	T-2
TOP AT 33" A.F.F.	B-394	BURCK	16 3/8"	4 1/4"	15 3/4"	MAPKIN DISPOSAL	T-3
TOP AT 32" A.F.F.	B-3944	BURCK	16 3/8"	4 1/4"	15 3/4"	MAPKIN DISPOSAL	T-4
* 1/4" IMPID GLASS	700 1624-2"	BRADLEY	18"	-	24"	MIRROR	T-5
* 1/4" IMPID GLASS	740 1624-2"	BRADLEY	18"	-	24"	MIRROR	T-6
* 1/2" MIRROR AT 72" A.F.F.	700 2460-2"	BRADLEY	24"	-	60"	MIRROR	T-7
	5000	LSI	42"	23 1/2"	84"	TALL STORAGE	C-1
	1930	LSI	21"	24 1/4"	36"	DRAWER BASE	C-2
BY OWNER			36"	4"	72"	LIGHTBOX	E-1
		GREENSTEEL	48"	4"	48"	DISPLAY CASE	E-2
		GREENSTEEL	96"	4"	48"	DISPLAY CASE	E-3
SEE 1/A-700			48"		72"	MAP PLAQUE	E-4
						FIRE EXTINGUISHER CABINET	E-5

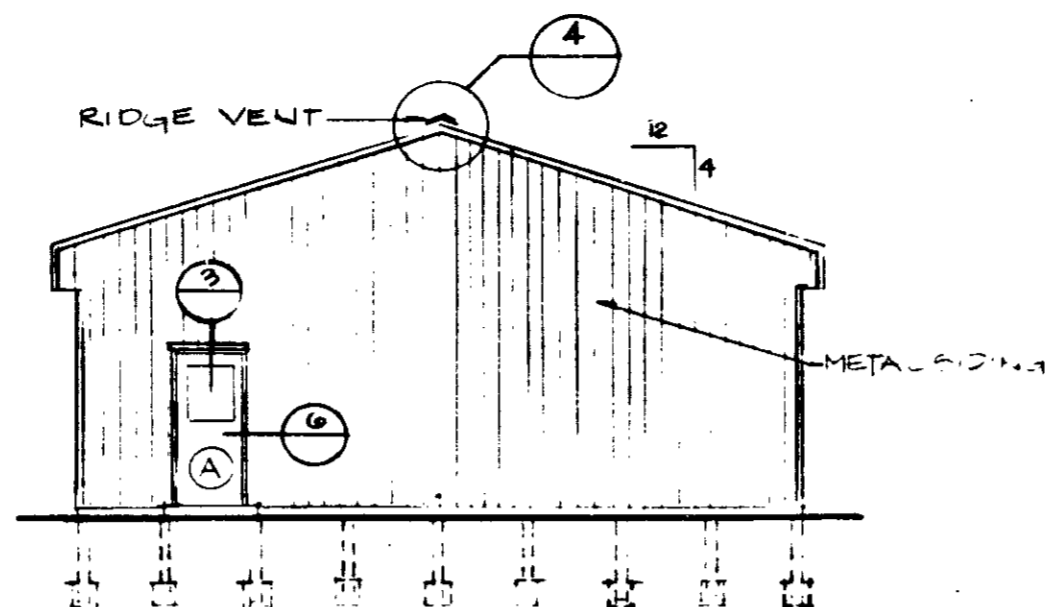
EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

DETAILS

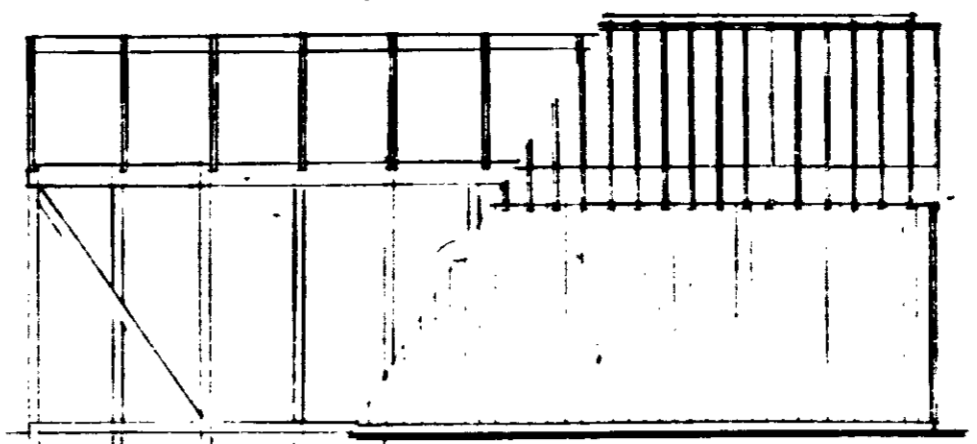
EQUIPMENT PLAN / SCHEDULE & DETAILS
R-19



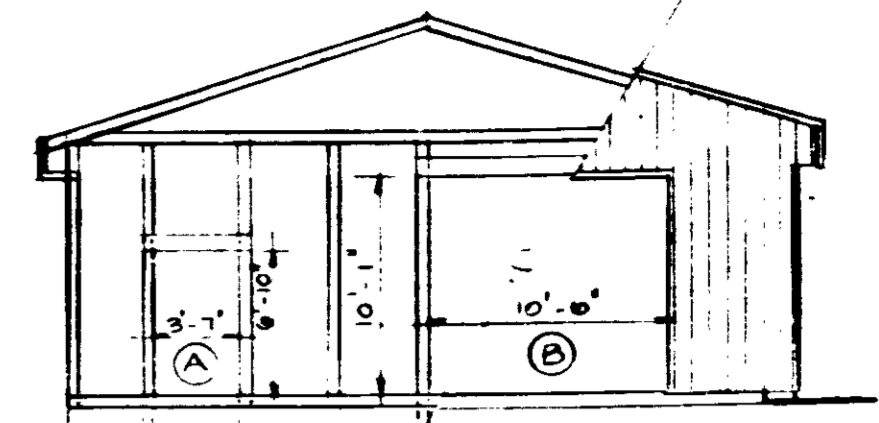
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-33D-70-600	1989	64	171



C REAR ELEVATION
SCALE: 1/8" = 1'-0"

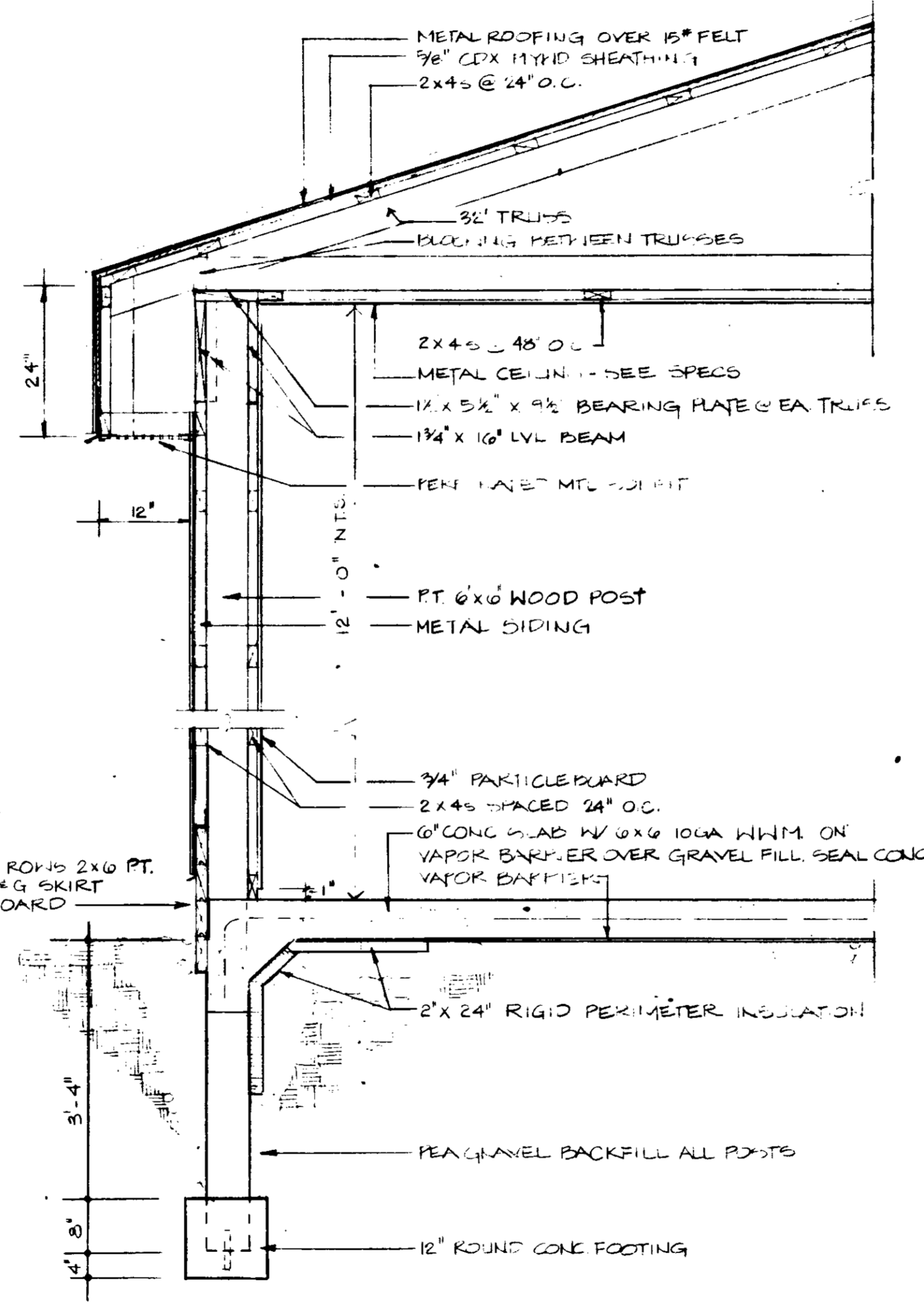


B SIDE ELEVATION
SCALE: 1/8" = 1'-0"

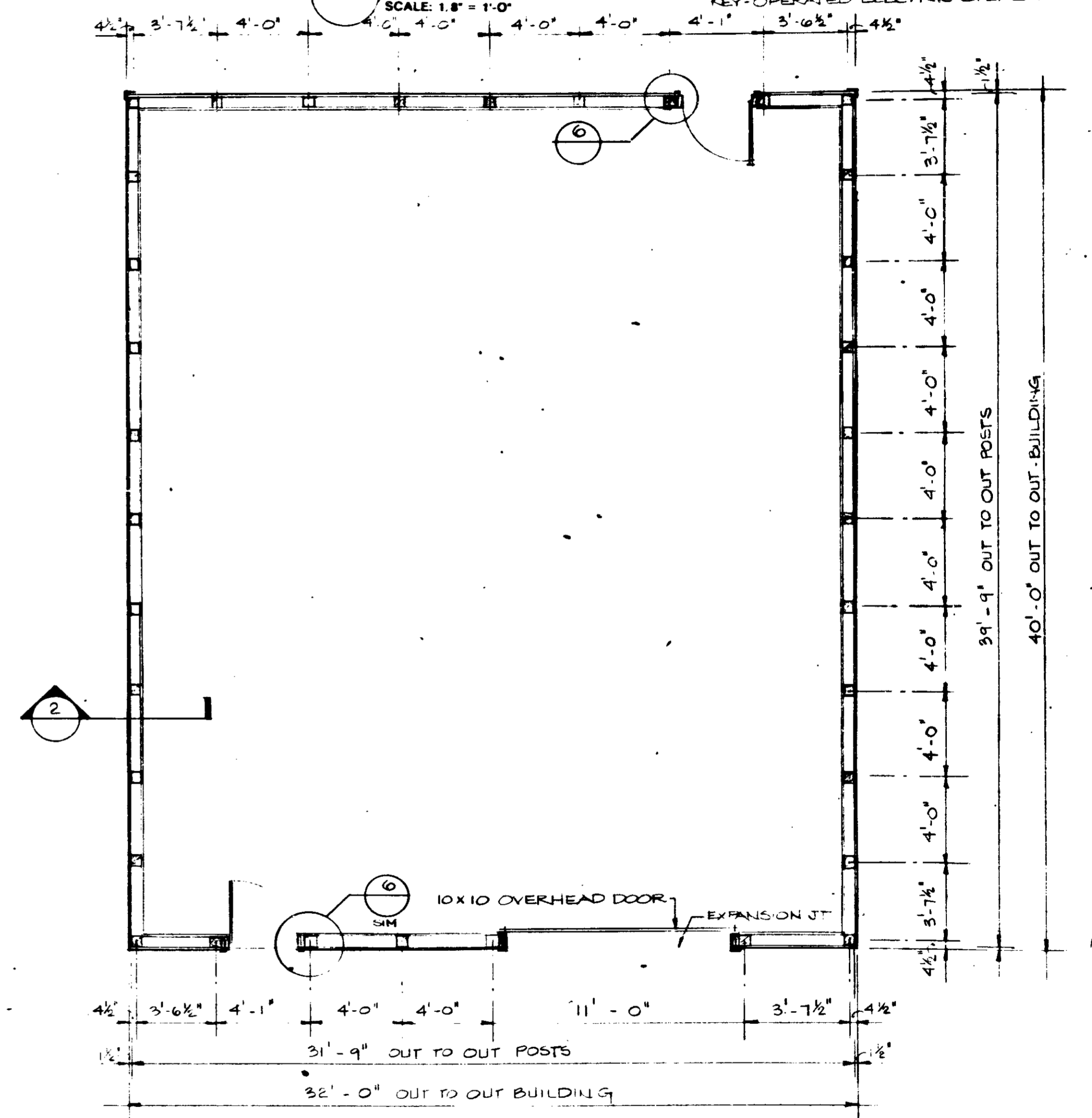


A FRONT ELEVATION
SCALE: 1/8" = 1'-0"

① 3'-0" x 6'-8" H.M. DOOR FRAME W/ GLASS, 1/2" PR. BUTTS, 1" TRIM PANIC DEVICE, 1" CLOSER, 1" THRESHOLD, 1" WEATHERSTRIP, 1" RAIN DRIP, 1" SNEEP, 1" CYLINDER.
② 10' x 10' FIBERGLASS OVERHEAD DOOR WITH KEY-OPEKATED ELECTRIC OPENER.



2 WALL SECTION
SCALE: 3/4" = 1'-0"

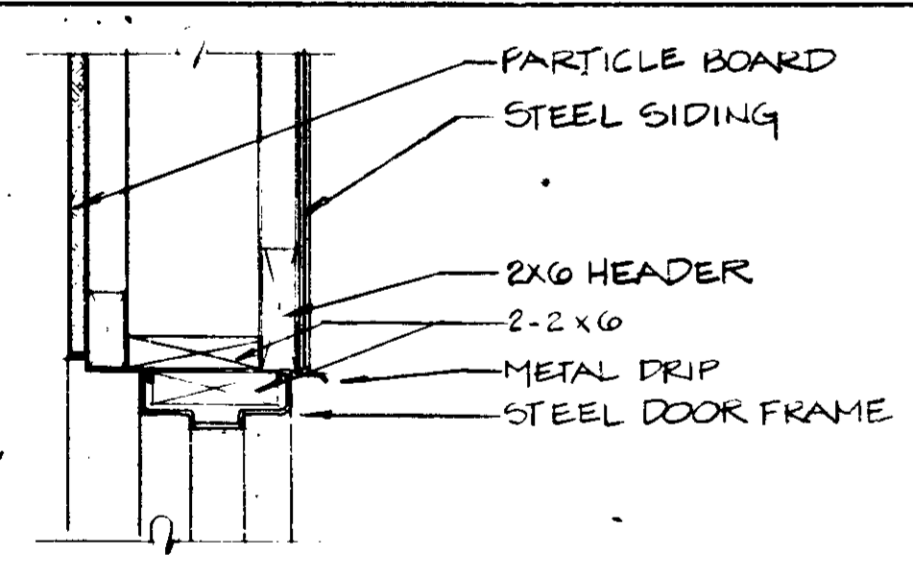


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

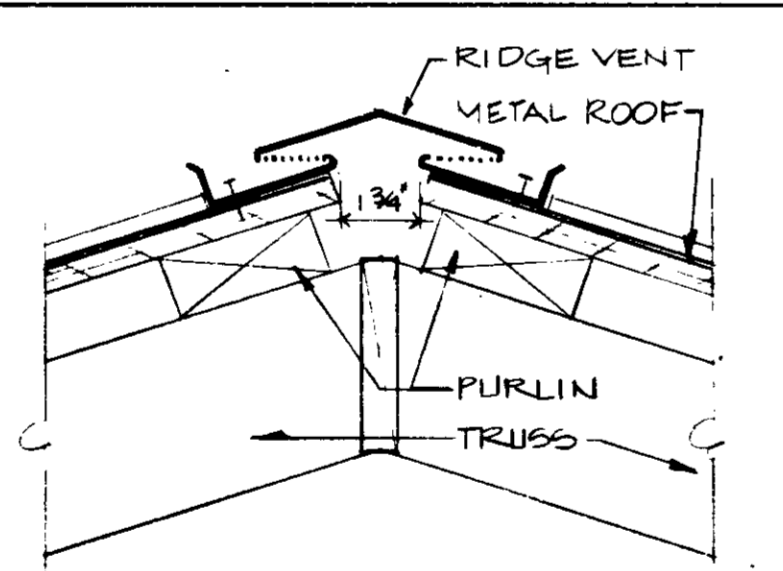
NOTES:
1. PAINT DOORS, FRAMES, SECTIONED OVERHEAD DOOR & FRAME.
2. DO NOT PAINT INTERIOR PARTICLEBOARD.

DETAILS
STORAGE BUILDING

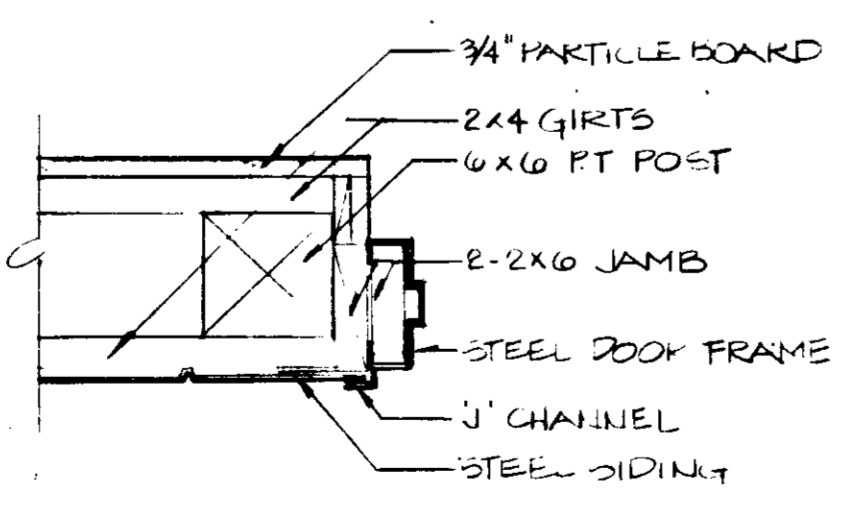
R-19057



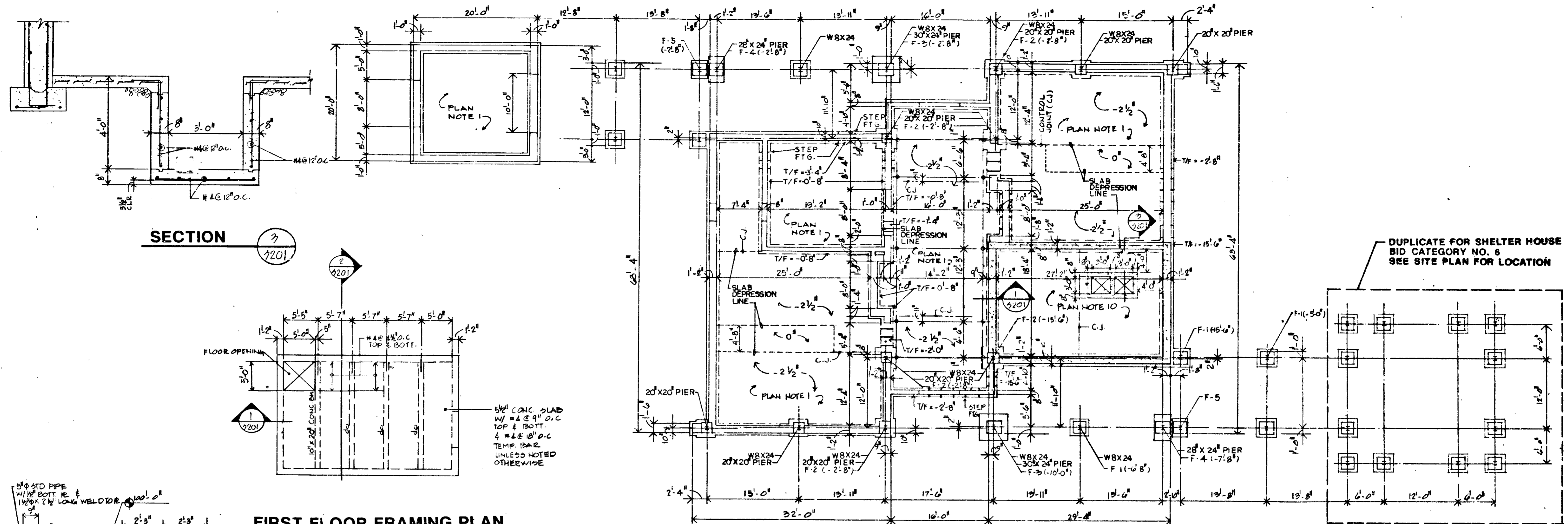
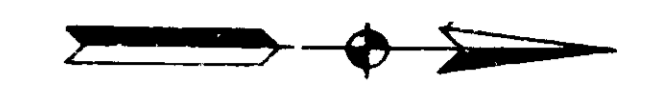
3 DETAIL
SCALE: 1 1/2" = 1'-0"



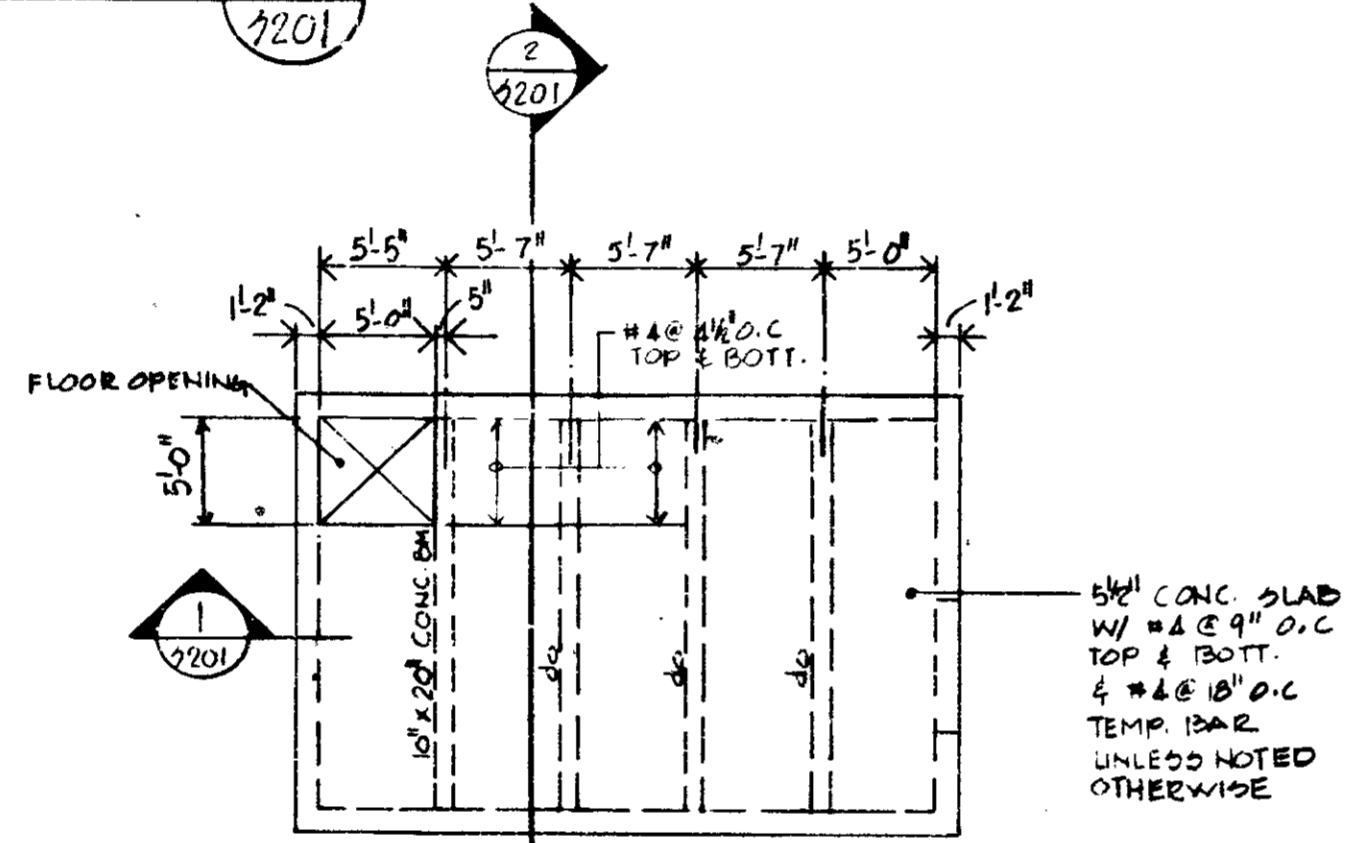
4 DETAIL
SCALE: 3" = 1'-0"



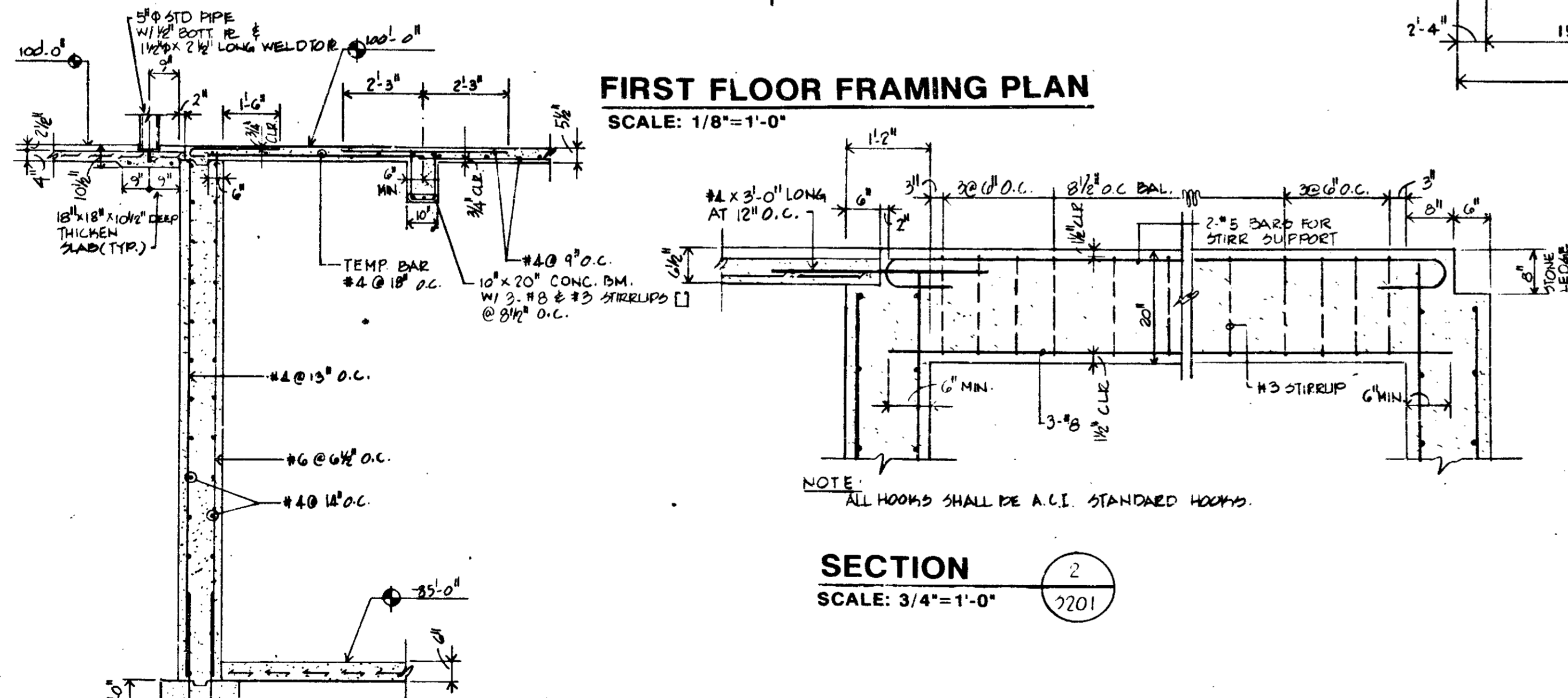
6 DETAIL
SCALE: 1 1/2" = 1'-0"



SECTION 7
SCALE: 3/4"=1'-0"
2201



FIRST FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"



SECTION 2
SCALE: 3/4"=1'-0"
2201

FOUNDATION PLAN
SCALE: 1/8"=1'-0"

FINISH FLOOR ELEV. = 100'-0"

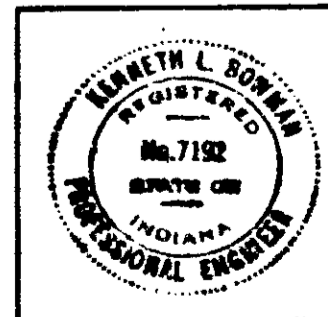
PLAN NOTES

1. CONCRETE SLABS ON GRADE SHALL BE 4" THICK WITH 6 x 6 x 8/8 W.W.F. ON VAPOR BARRIER OVER 5" CAPILLARY WATER BARRIER, UNLESS OTHERWISE NOTED.
2. ELEVATION TOP OF ALL EXTERIOR COLUMNS AND WALL FOOTINGS SHALL BE 2'-8" BELOW FINISH FLOOR ELEVATION, UNLESS OTHERWISE NOTED.
3. ELEVATION TOP OF ALL INTERIOR COLUMNS AND WALL FOOTINGS SHALL BE 0'-8" BELOW FINISH FLOOR ELEVATION, UNLESS OTHERWISE NOTED.
4. ALL WALL FOOTINGS SHALL BE 1'-0" THICK AND 1'-0" GREATER THAN THE WIDTH OF THE FOUNDATION WALL ABOVE, UNLESS OTHERWISE NOTED. PROVIDE 2-#5 CONTINUOUS.
5. T/F = -3'-4" DENOTES TOP OF FOOTING BELOW FINISH FLOOR ELEVATION OF 100'-0" = 516.00'.
6. ALL COLUMN FOOTINGS ARE 3'-0" x 3'-0" x 1'-0" DEEP, UNLESS OTHERWISE NOTED.
7. ELEVATION TOP OF ALL PIERS SHALL BE 0'-8" BELOW FINISH FLOOR ELEVATION. THE SIZE OF ALL PIERS SHALL BE 24" x 24", UNLESS OTHERWISE NOTED.
8. ALL COLUMN SIZE SHALL BE W6 X 15, UNLESS OTHERWISE NOTED.
9. SEE ARCHITECTURAL DRAWING FOR LOCATION OF SLAB DEPRESSION AREAS.
10. CONCRETE SLABS ON GRADE SHALL BE 6" THICK WITH 6x6 x 6/8 W.W.F. ON VAPOR BARRIER OVER 6" CAPILLARY WATER BARRIER, UNLESS OTHERWISE NOTED.

11. F-1 (-6'-8") DENOTES TOP OF FOOTING ELEVATION BELOW FINISH FLOOR ELEVATION.

DETAILS
FOUNDATION PLAN

ADDING BASEMENT: APRIL 27, 1990 REVISED



19057

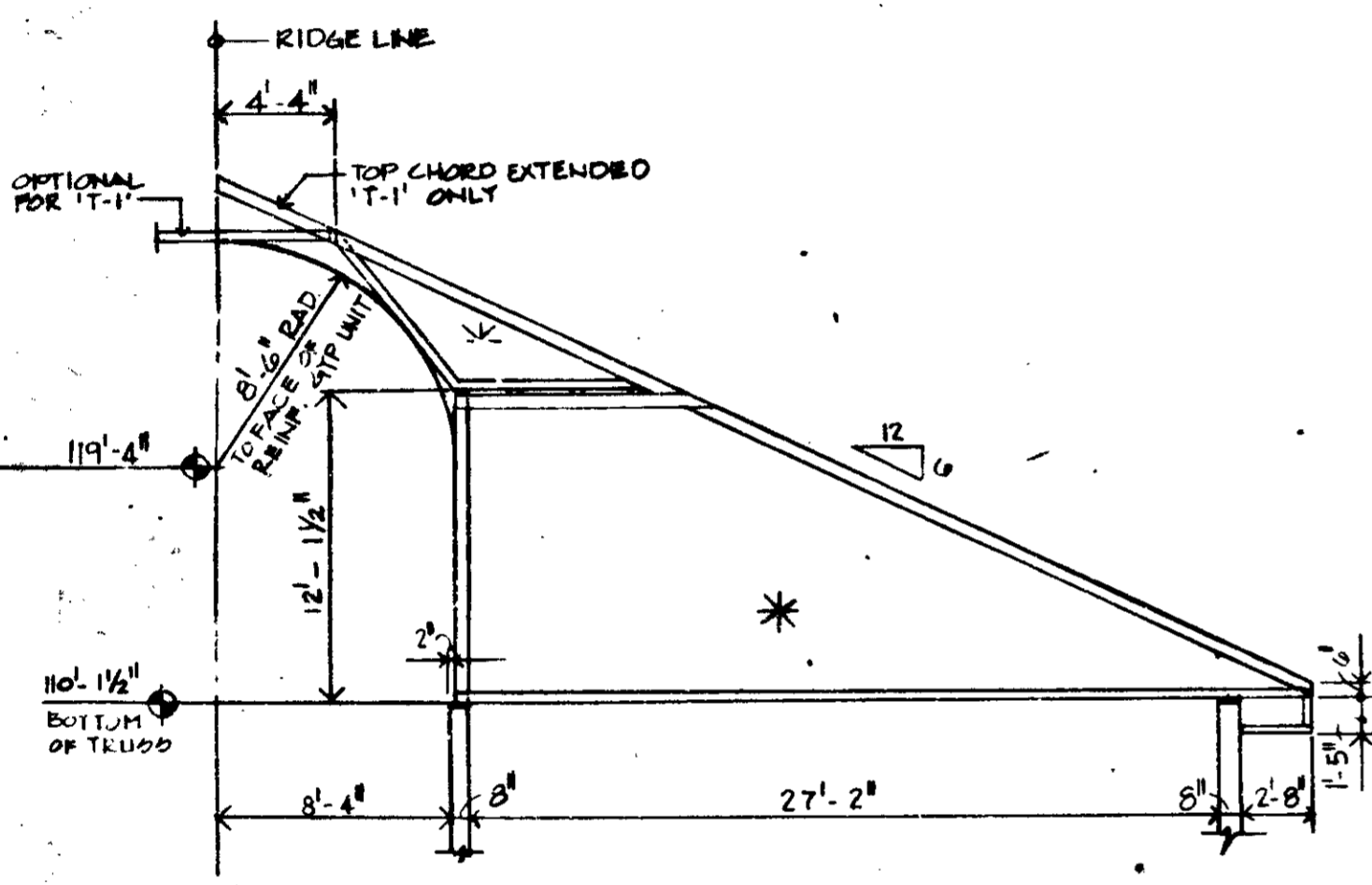
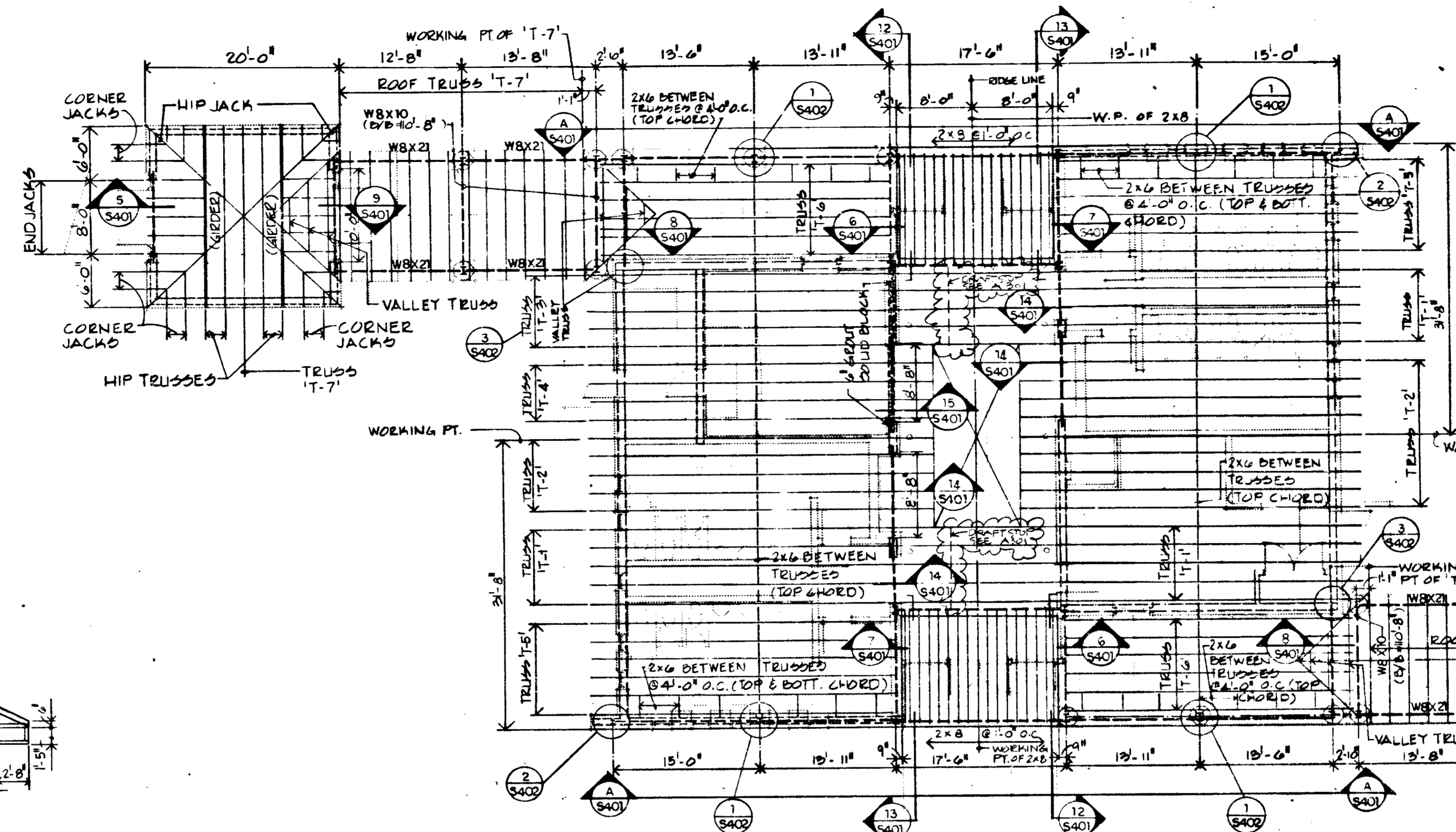
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-1-D-70-1000	1989	66	171

5202

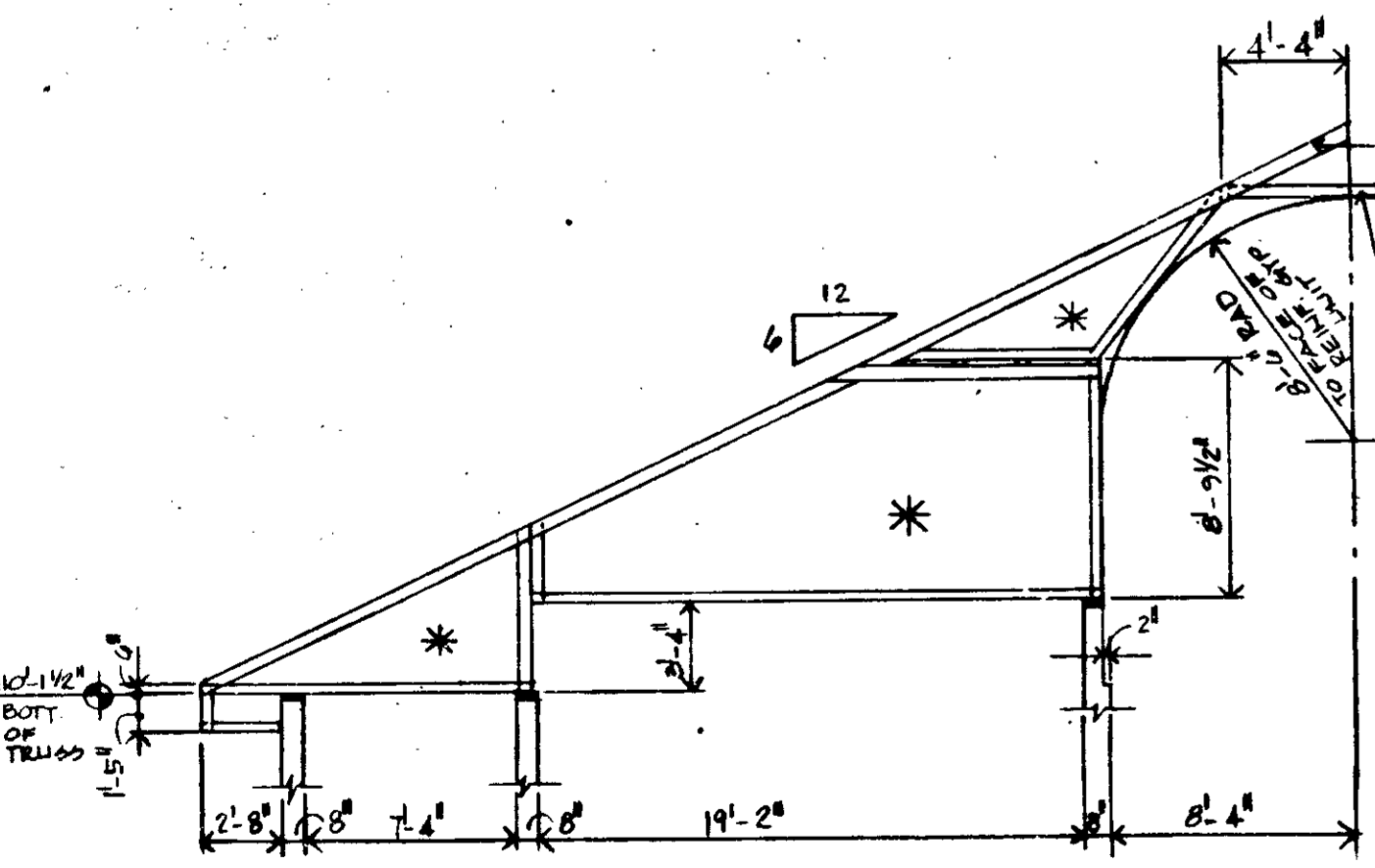
PLAN NOTES

1. T/B = 110'-6 1/2" DENOTES TOP OF BEAM. TOP OF BEAMS SHALL BE 10'-6 1/2" ABOVE FINISH FLOOR ELEVATION OF 100'-0" = 516.00' UNLESS OTHERWISE NOTED.
2. B/B = 110'-0" DENOTES BOTTOM OF BEAM.
3. ALL WALLS SHALL HAVE 8" DEEP X 8" WIDTH OF CONTINUOUS BOND BEAM 1/2" #5 REINFORCED. TOP OF BOND BEAM SHALL BE 10'-0" ABOVE FINISH FLOOR ELEVATION.
4. PLYWOOD SHEATHING SHALL BE INSTALLED UNDER THE VALLEY TRUSSES.
5. SEE ARCHITECTURAL DRAWING FOR DETAIL OF ROOF OPENING.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 25 OF INDIANA BUILDING CODE, 1985 EDITION, EXCEPT AS NOTED.

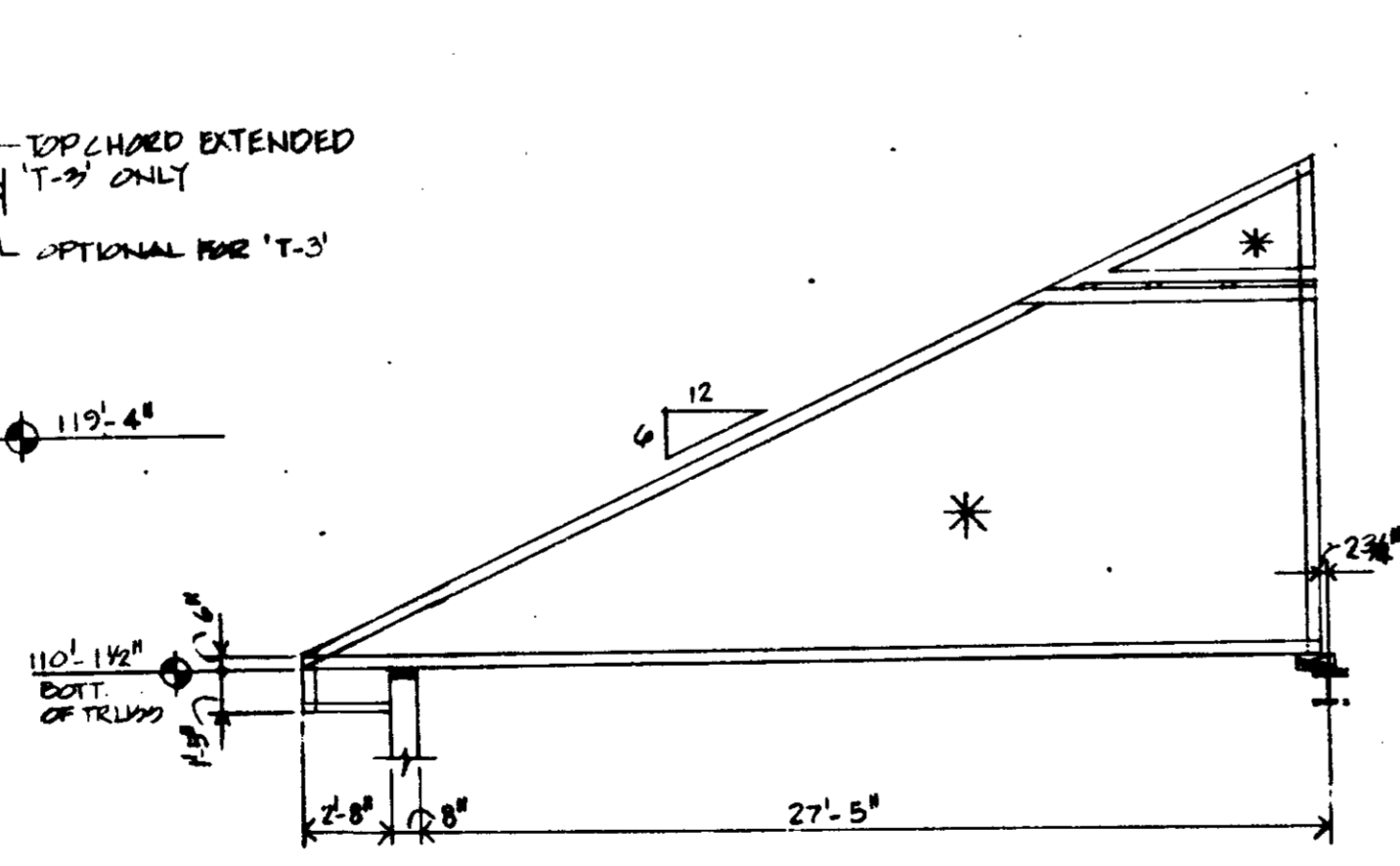
DUPLICATE FOR SHELTER HOUSE. (SH.-1)
 BID CATEGORY NO. 6
 SEE SITE PLAN FOR LOCATION
 OMIT SECTION 9/S401 FOR BID NO. 6



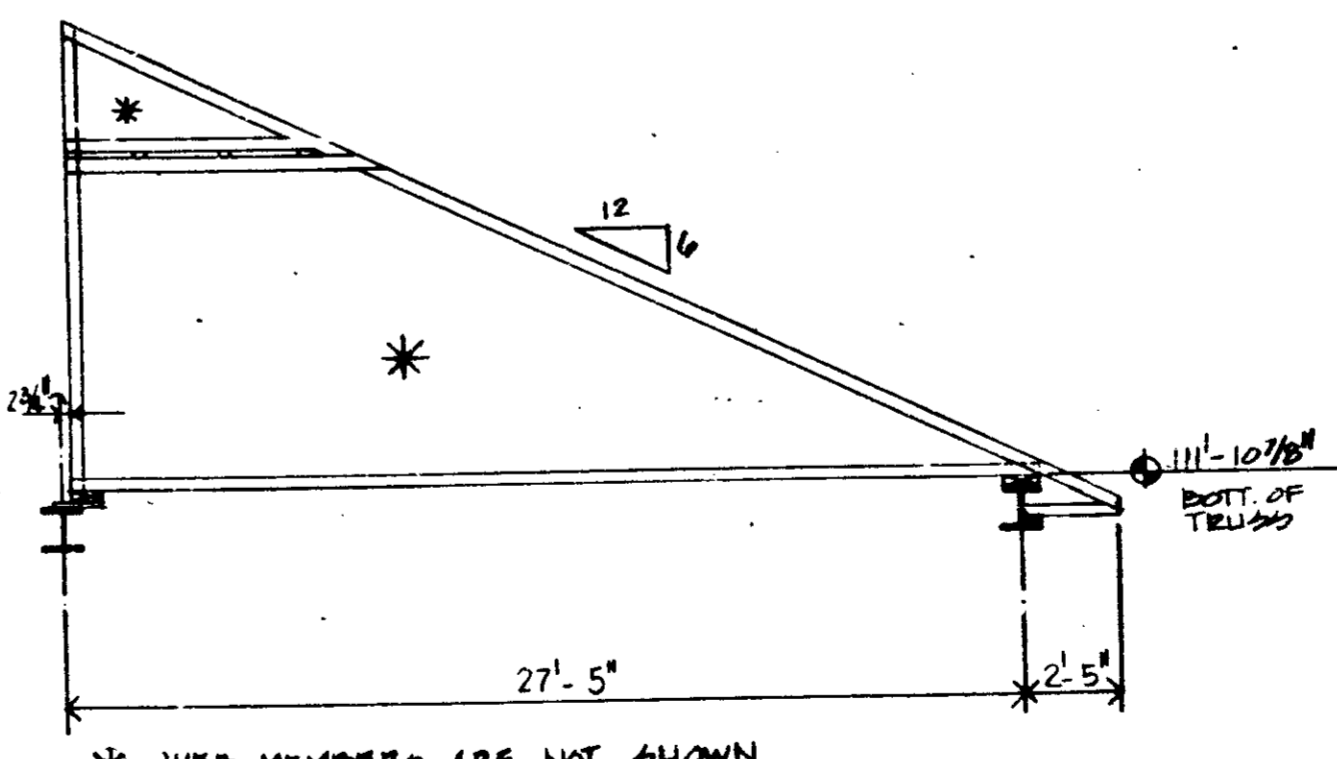
TRUSS T-1 & T-2



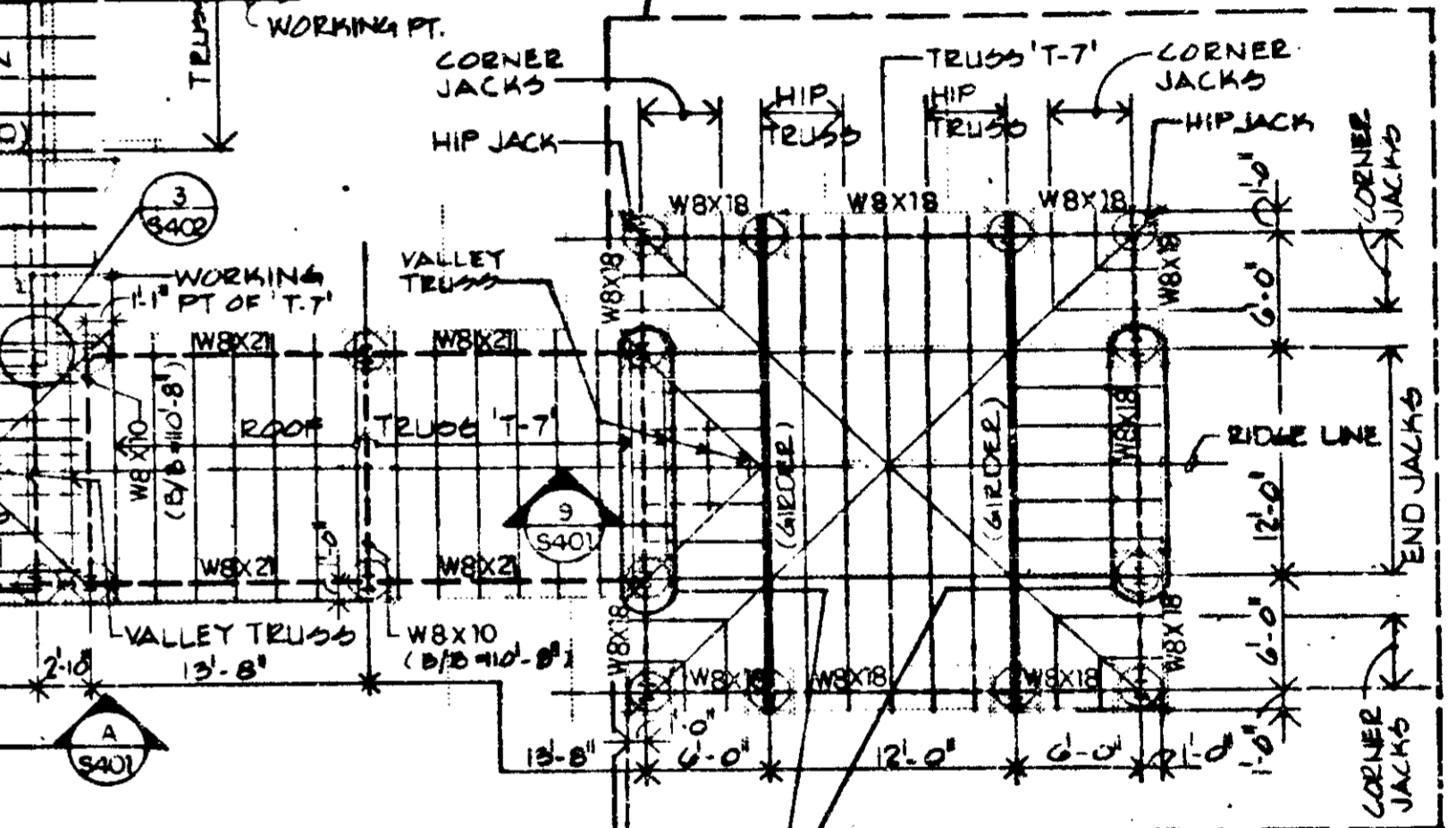
TRUSS T-3 & T-4



TRUSS T-5



TRUSS T-6



TRUSS T-7

ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"

LEFT HAND SIDE CONDITION IS SAME AS RIGHT HAND SIDE AT SH.-1

DETAILS

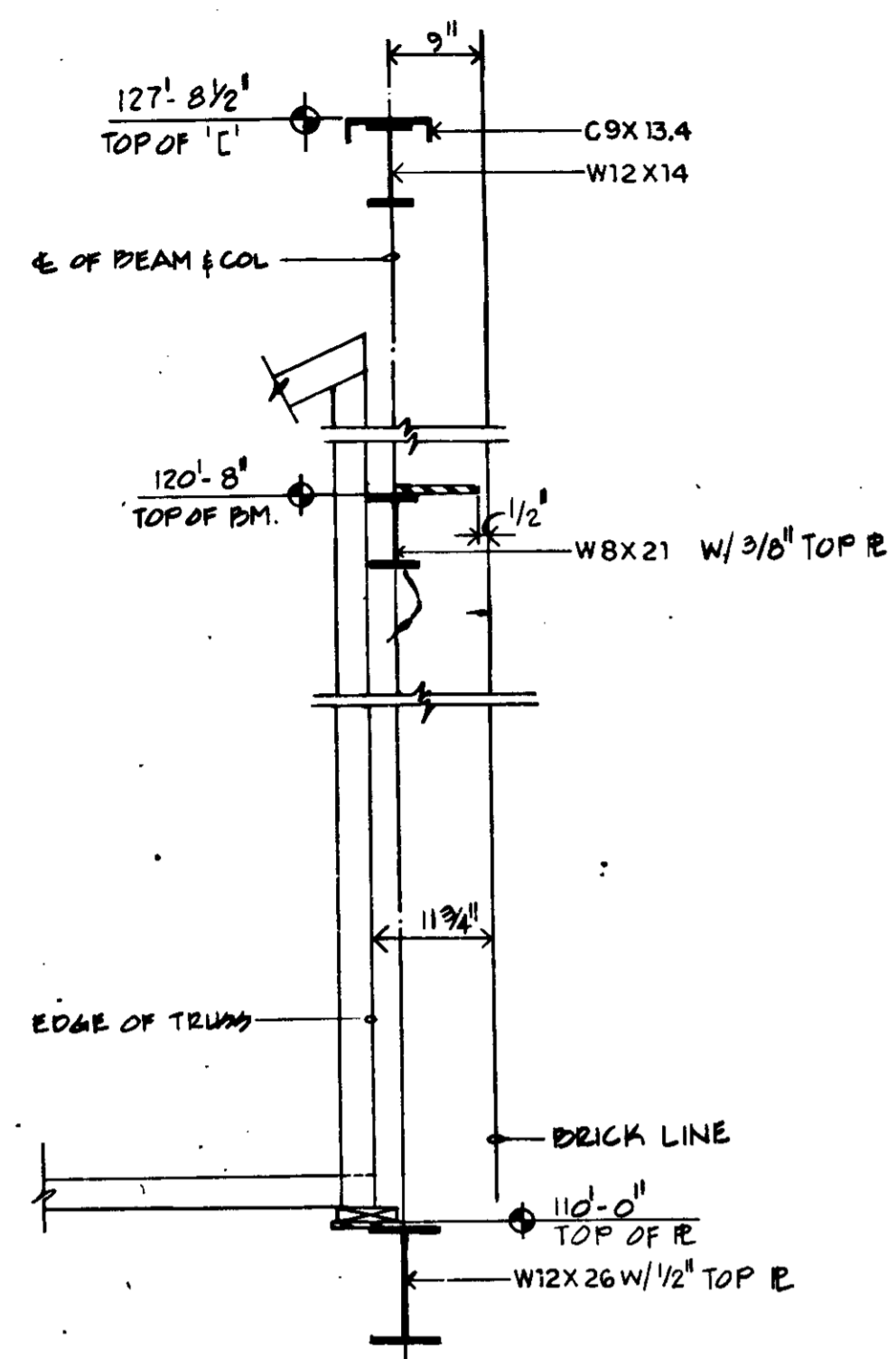
ROOF FRAMING PLAN/TRUSS DETAILS

ADDING PAGEMENT: APRIL 27, 1990 REVISED

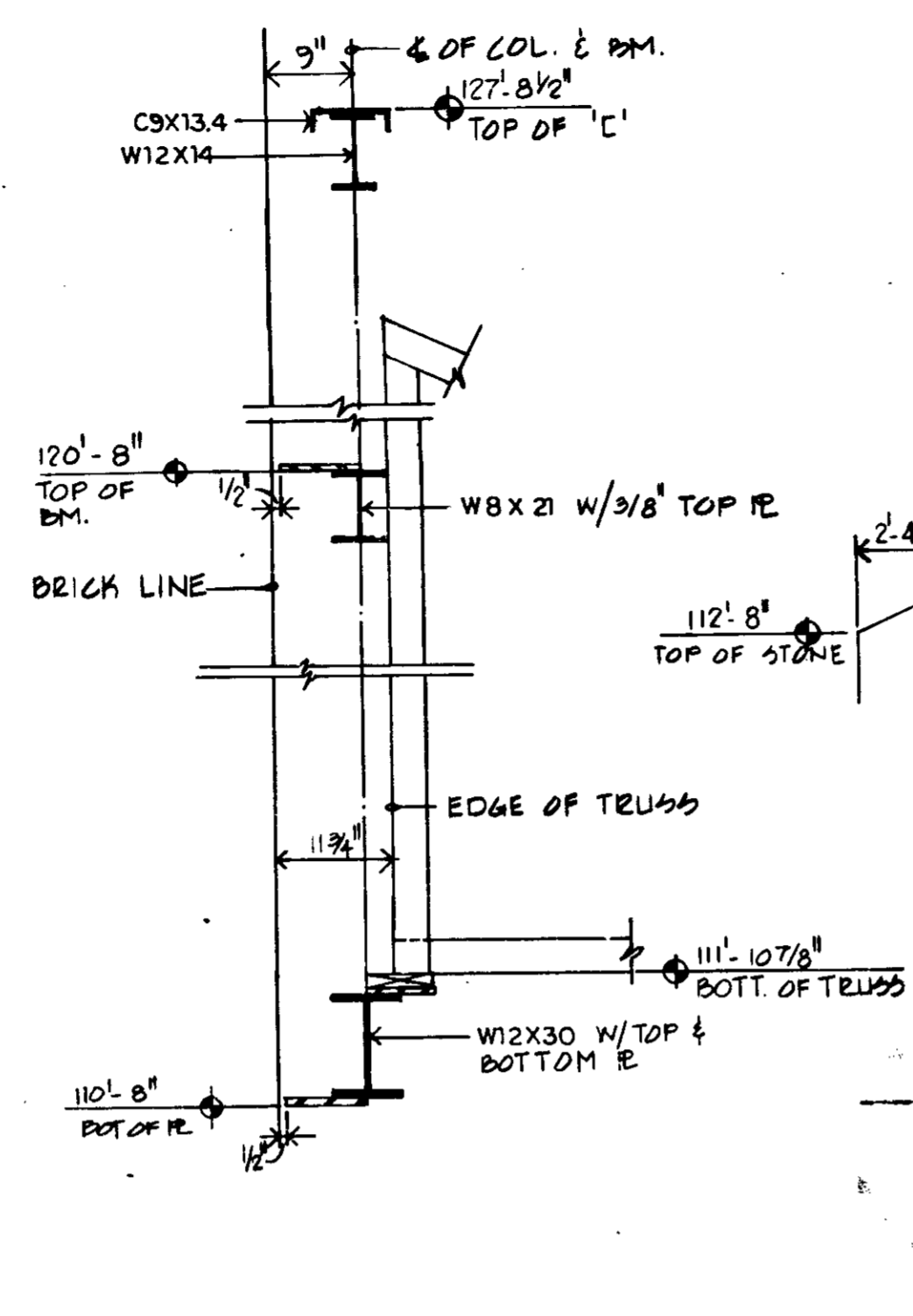
R-19057



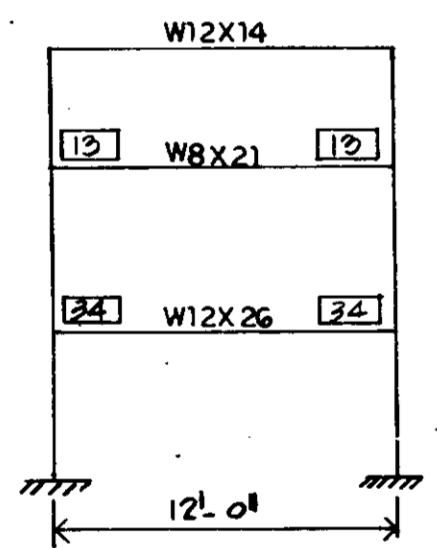
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-10-1010	1989	67	171



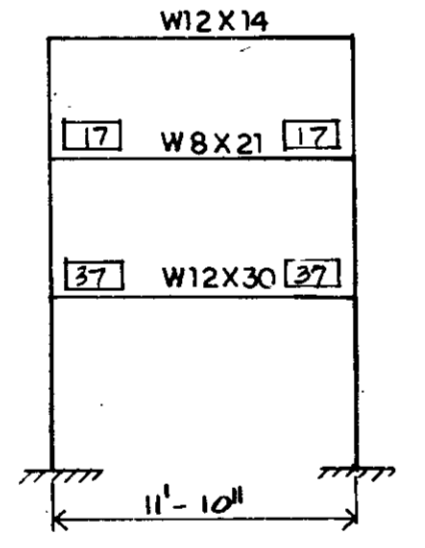
SECTION 7
SCALE: 3/4"=1'-0"
S401



SECTION 6
SCALE: 3/4"=1'-0"
S401

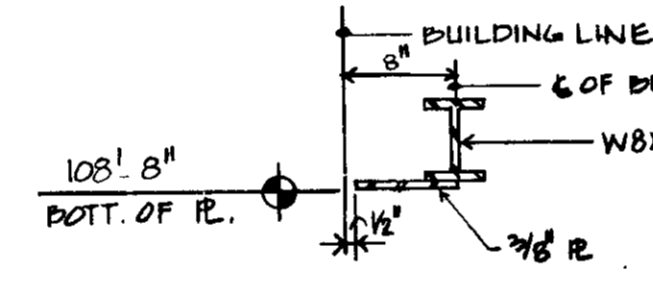


ELEVATION 13
S401

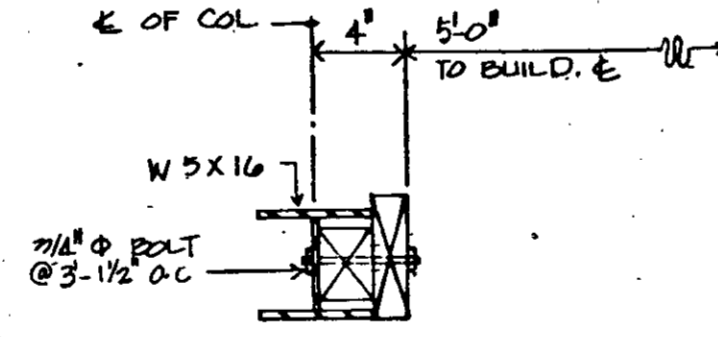


ELEVATION 12
S401

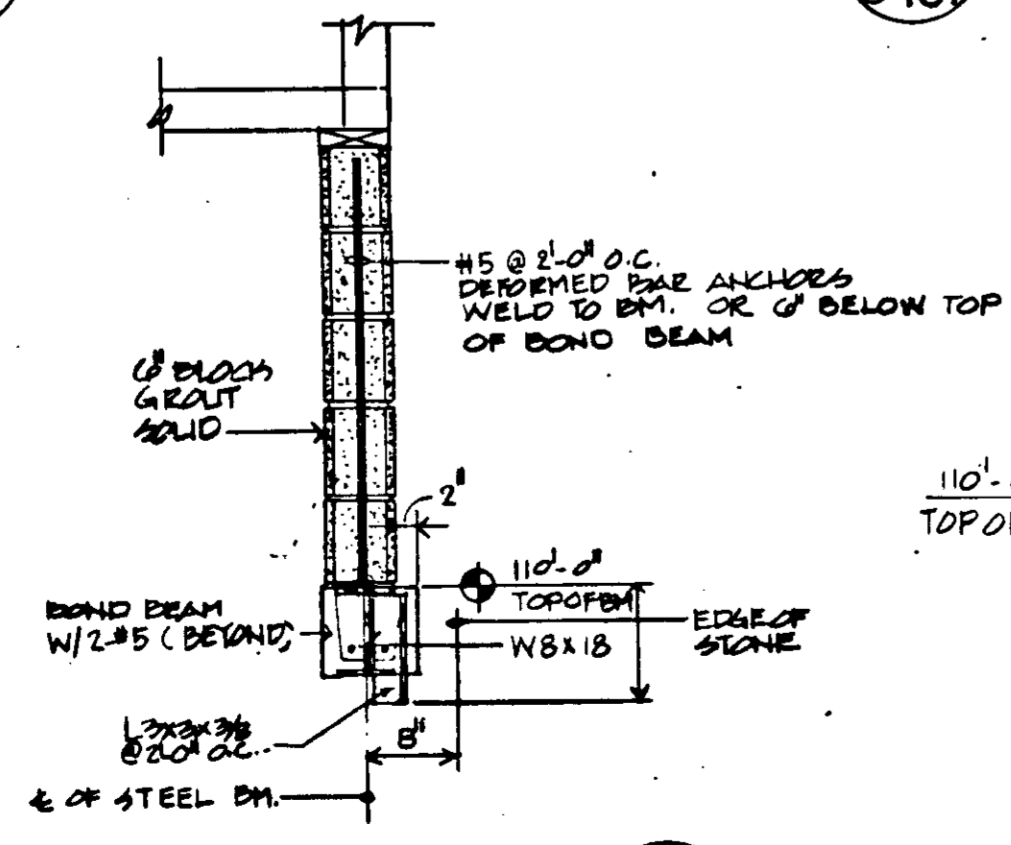
X1 DENOTES WIND LOAD MOMENT OF CONNECTION TO BE DESIGNED BY THE STRUCTURAL FABRICATOR (UNIT: FT-KIPS)



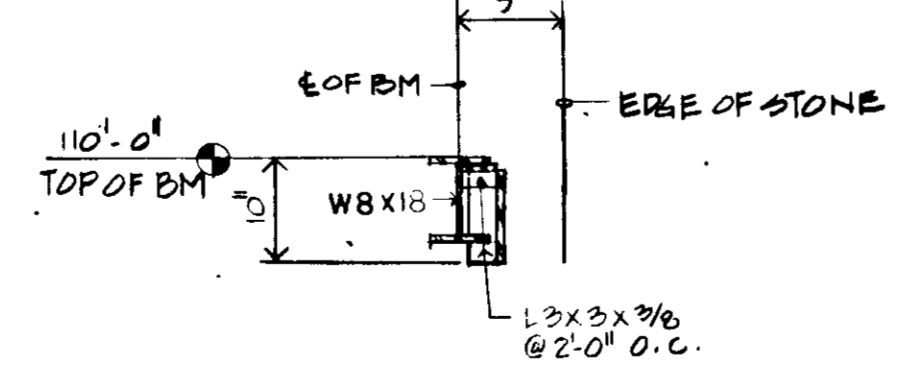
SECTION 5
SCALE: 3/4"=1'-0"
S401



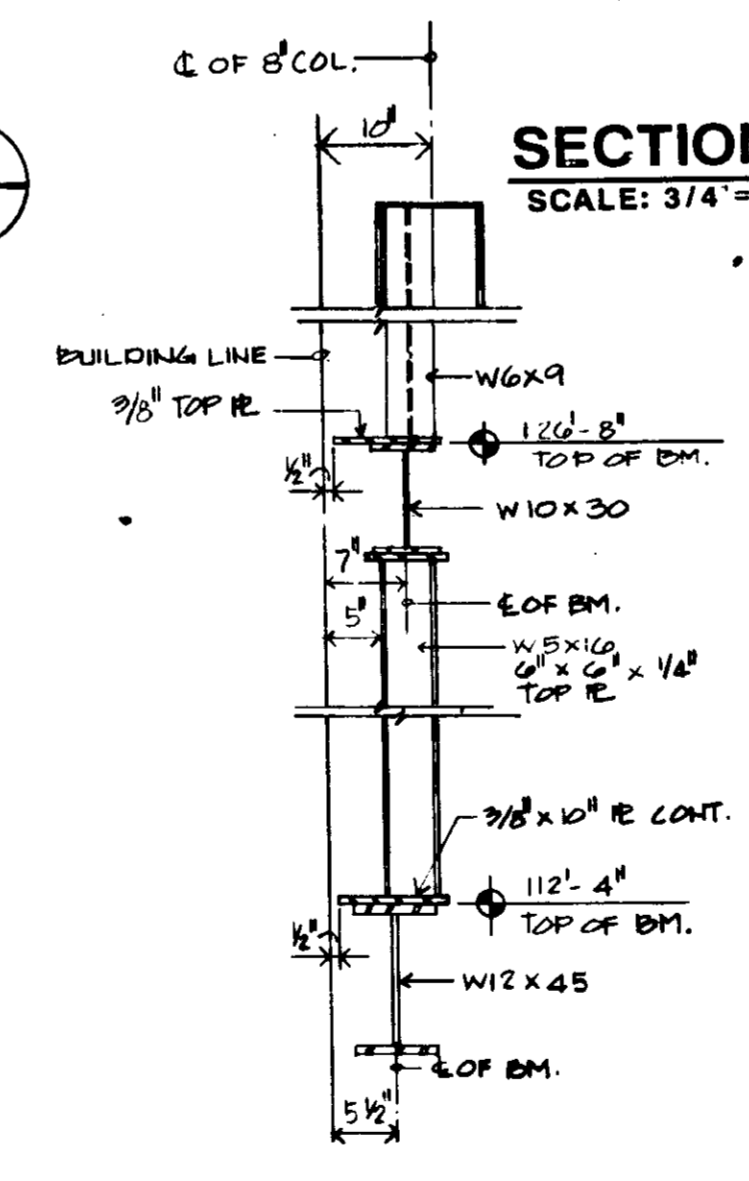
PLAN 11
SCALE: 1-1/2"=1'-0"
S401



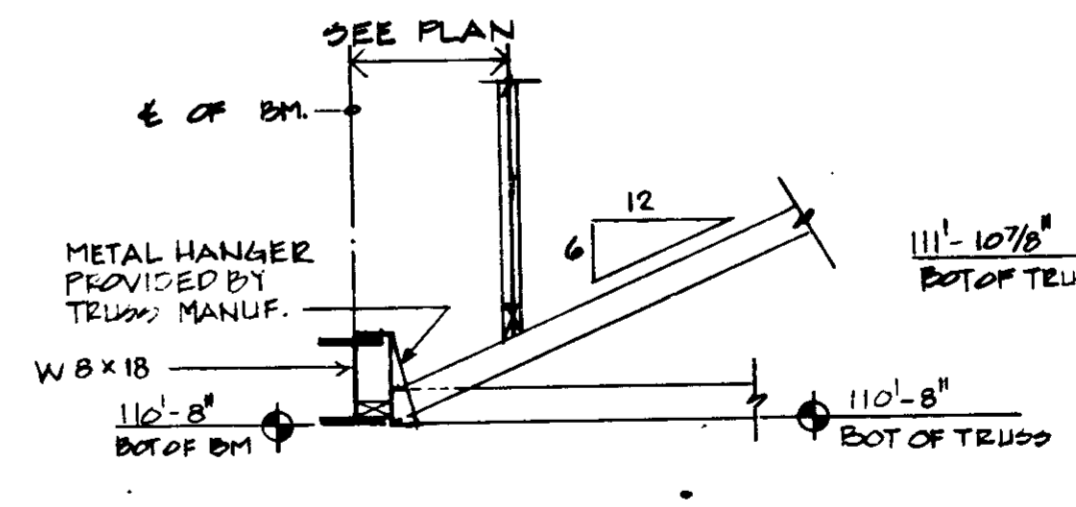
SECTION 15
NOT TO SCALE
S401



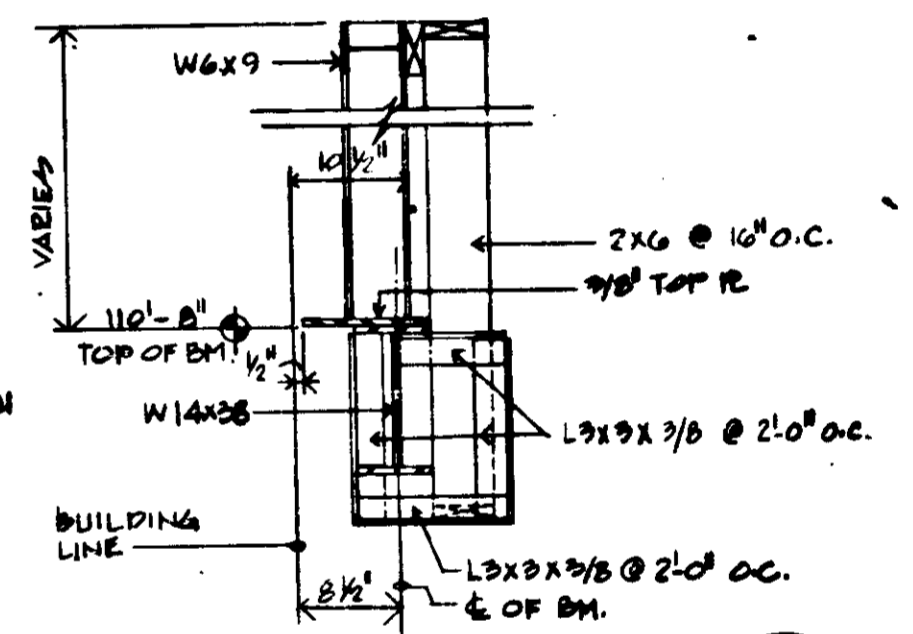
SECTION 14
NOT TO SCALE
S401



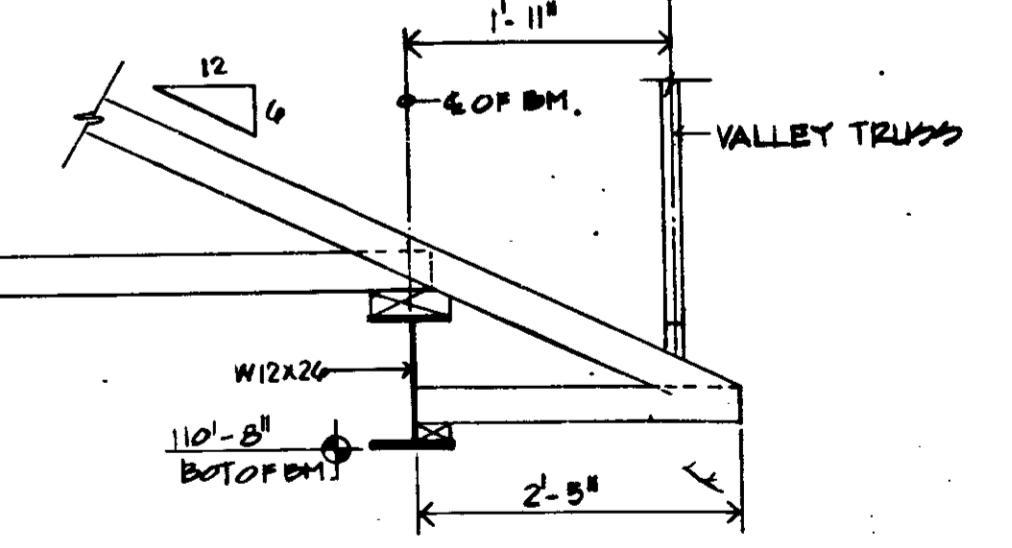
SECTION 4
SCALE: 3/4"=1'-0"
S401



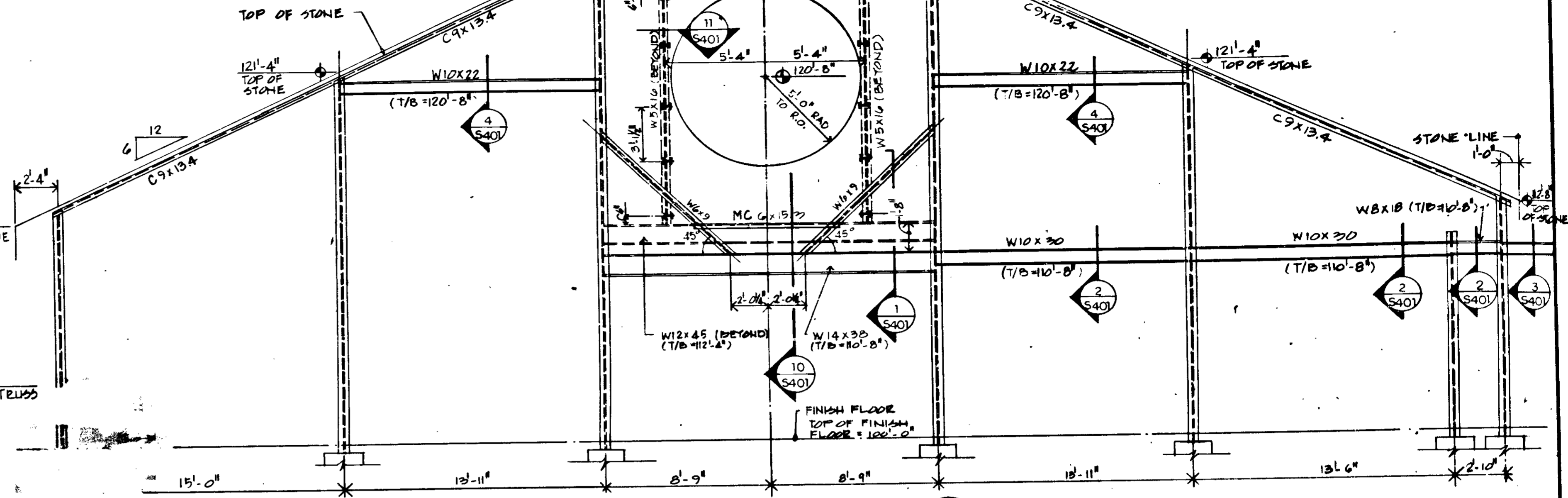
SECTION 9
SCALE: 3/4"=1'-0"
S401



SECTION 1
SCALE: 3/4"=1'-0"
S401



SECTION 8
SCALE: 3/4"=1'-0"
S401



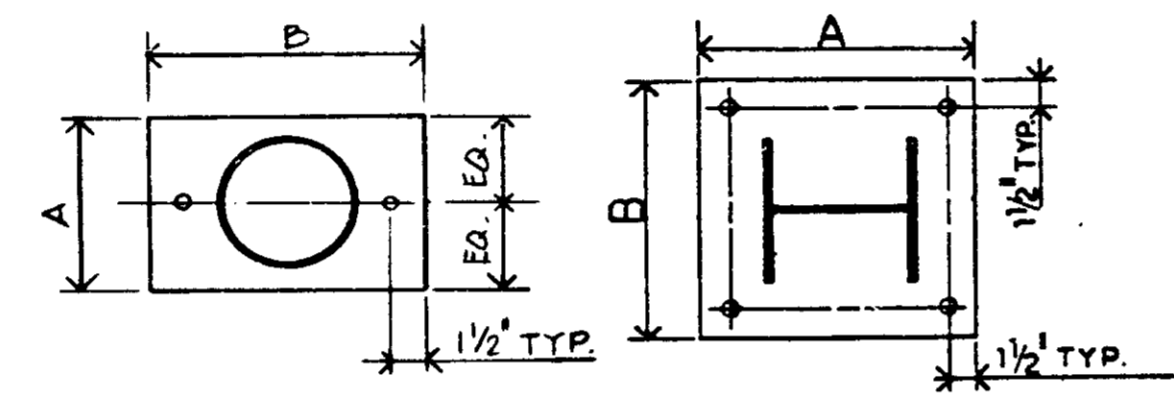
ELEVATION A
SCALE: 1/4"=1'-0"
S401

DETAILS
ELEVATIONS/SECTIONS/DETAILS
R-19057

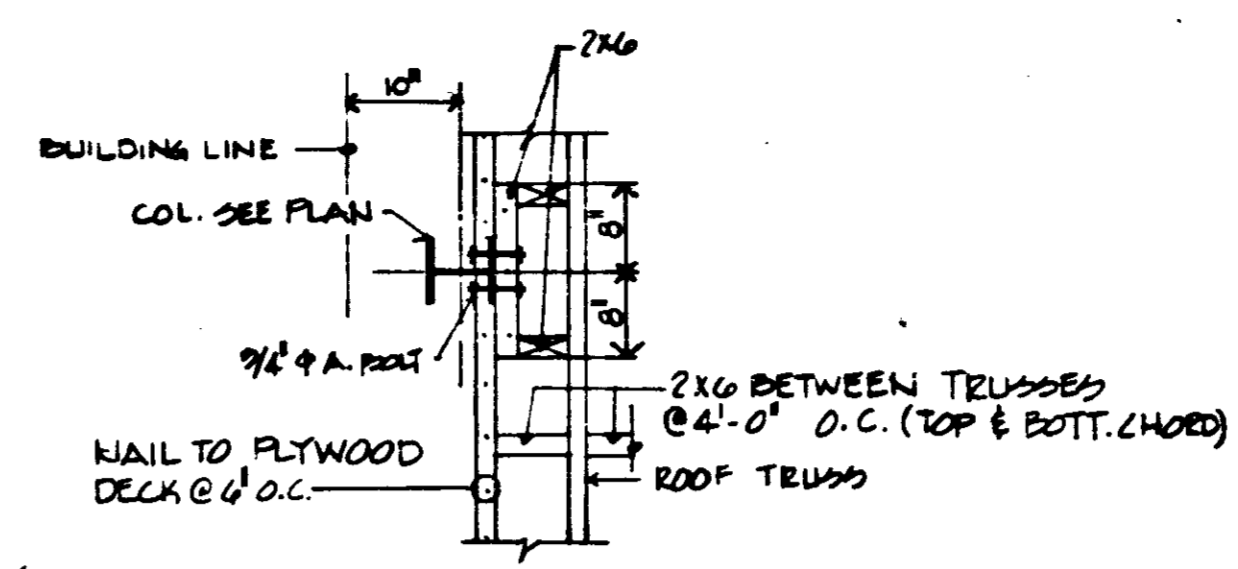


CONCRETE PIER SCHEDULE				
MARK	SIZE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
	20' x 20'	8-#6	#5 @ 12" O.C.	
	24' x 24'	8-#6	"	
	28' x 24'	8-#6	"	
	30' x 24'	8-#7	"	

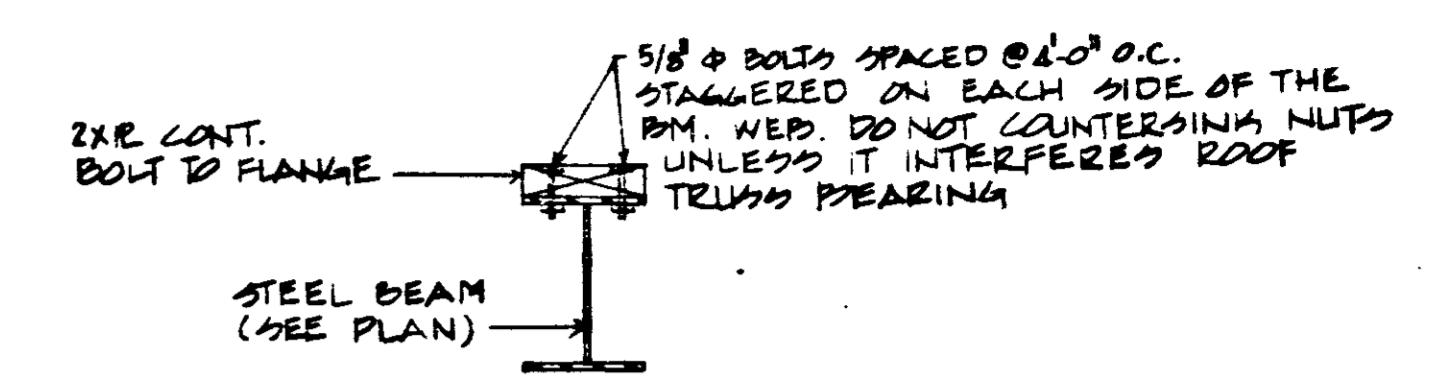
BASE PLATE SCHEDULE				
COLUMN	A	B	T	REMARKS
W6 x 15	12"	12"	1"	
W8 x 24	14"	12"	1 1/4"	
6" φ STD.	8"	12"	3/4"	5/8" φ A. BOLTS



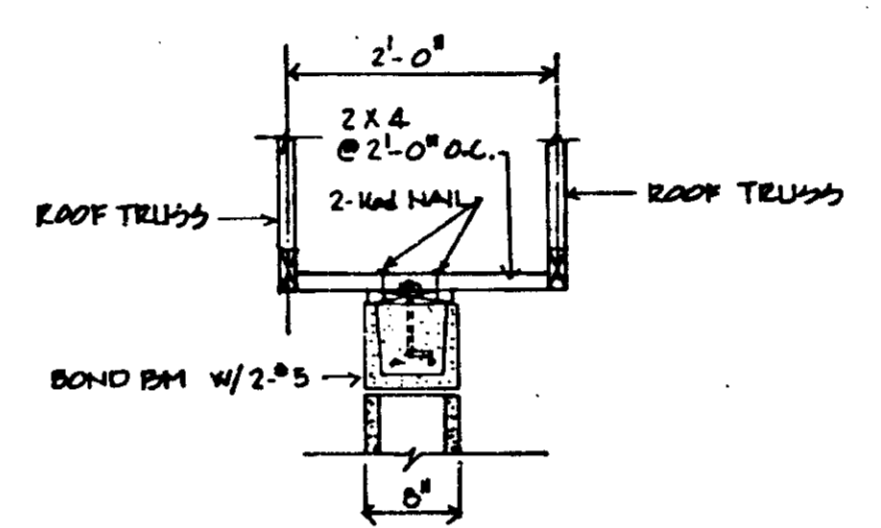
FOOTING SCHEDULE			
MARK	FOOTING SIZE (L x W x D)	REINFORCING	REMARKS
F-1	3'-0" x 3'-0" x 1'-0"	4-#4 E.W.	
F-2	3'-6" x 3'-6" x 1'-0"	4-#5 E.W.	
F-3	4'-6" x 4'-6" x 1'-0"	5-#6 E.W.	
F-4	4'-6" x 2'-8" x 1'-0"	4-#4 x 4'-0" LONG 6-#4 x 2'-2" LONG	
F-5	3'-0" x 2'-4" x 1'-0"	4-#4 x 2'-4" LONG 4-#4 x 1'-0" LONG	



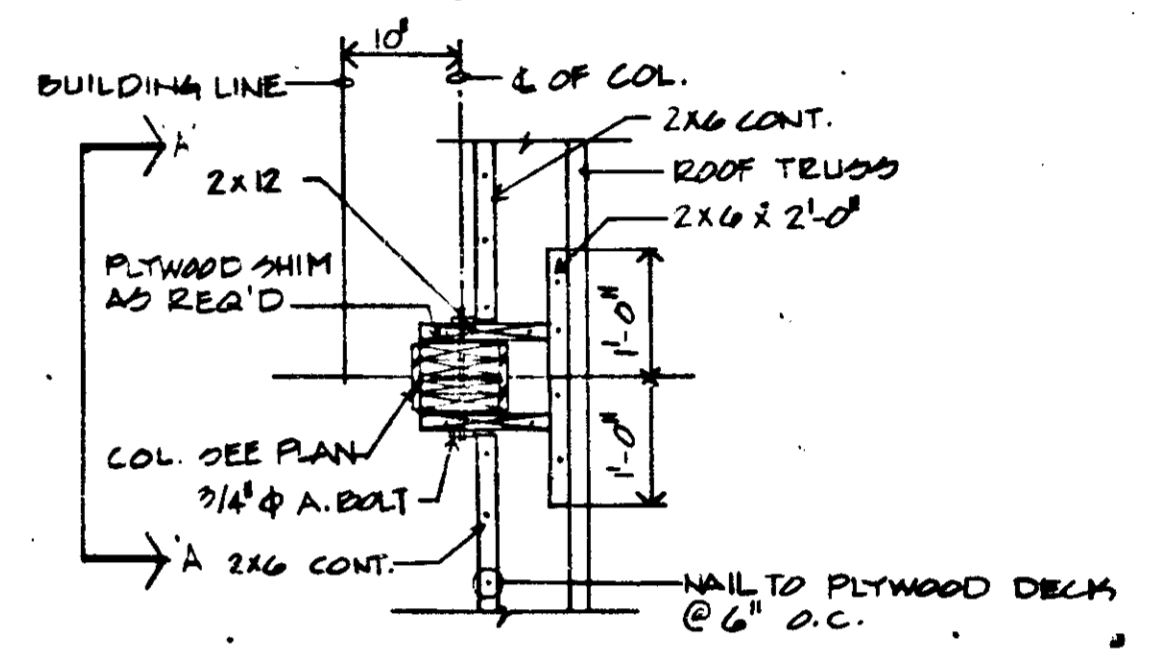
DETAIL 2
SCALE: 3/4" = 1'-0"
S402



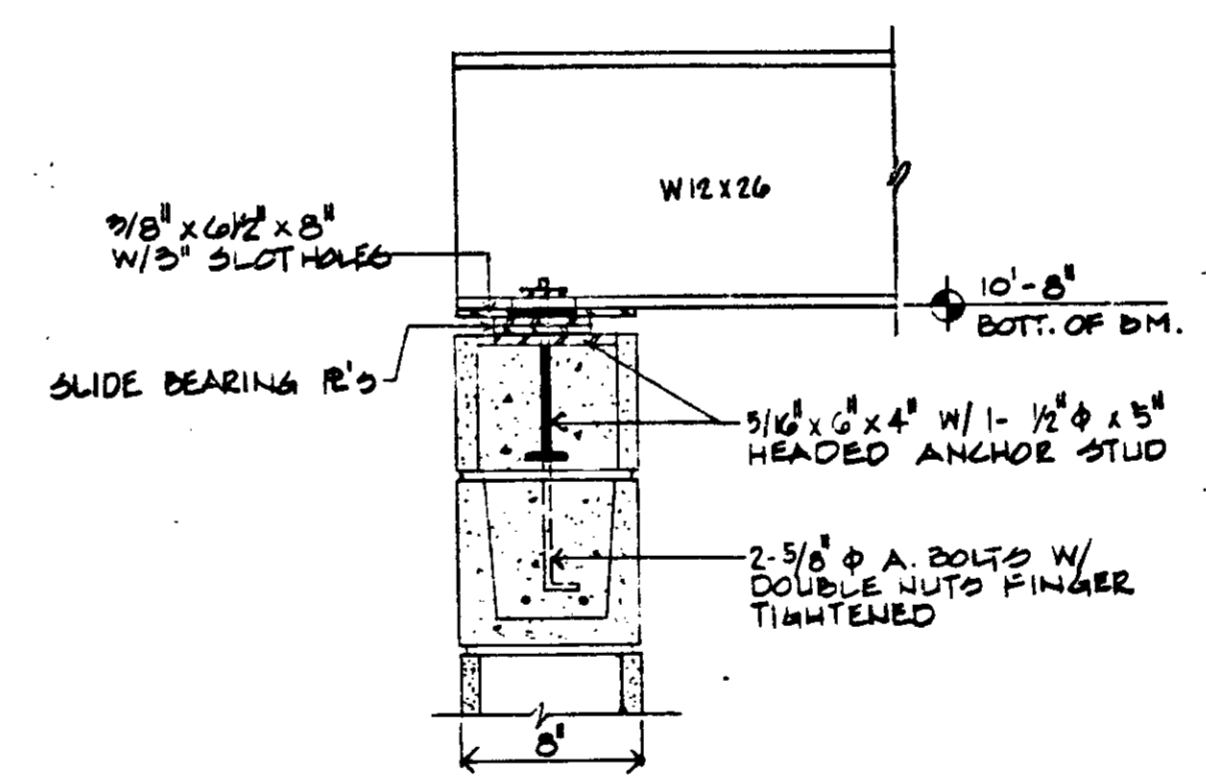
BOLTED WOOD NAILER PLATE TO STEEL BEAM
SCALE: 1-1/2" = 1'-0"



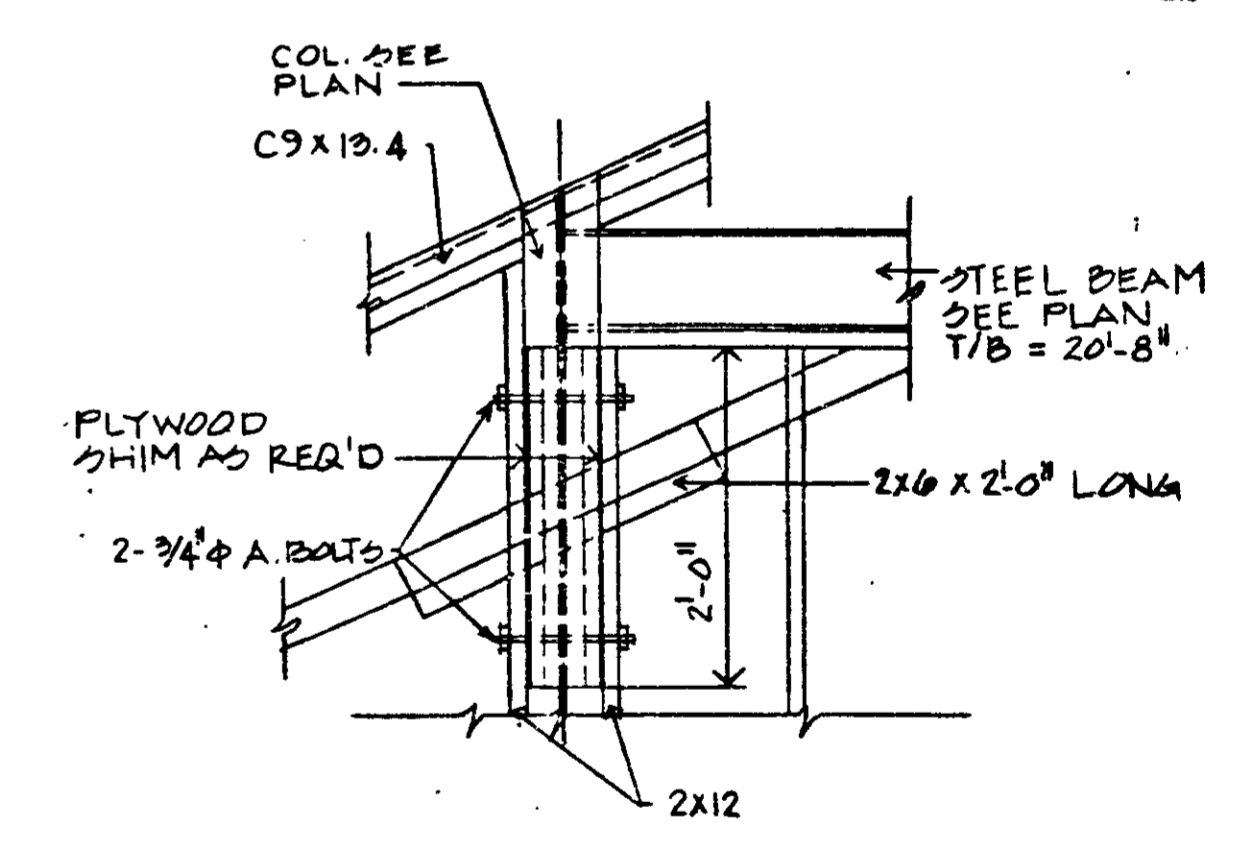
TYPICAL NON-BEARING WALL



DETAIL 1
SCALE: 3/4" = 1'-0"
S402



DETAIL 3
SCALE: 1-1/2" = 1'-0"
S402

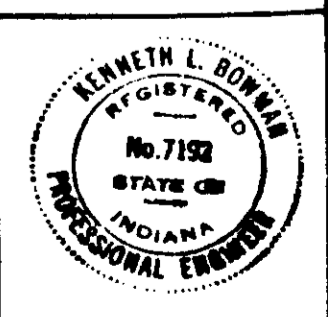


ELEVATION "A-A"

DETAILS

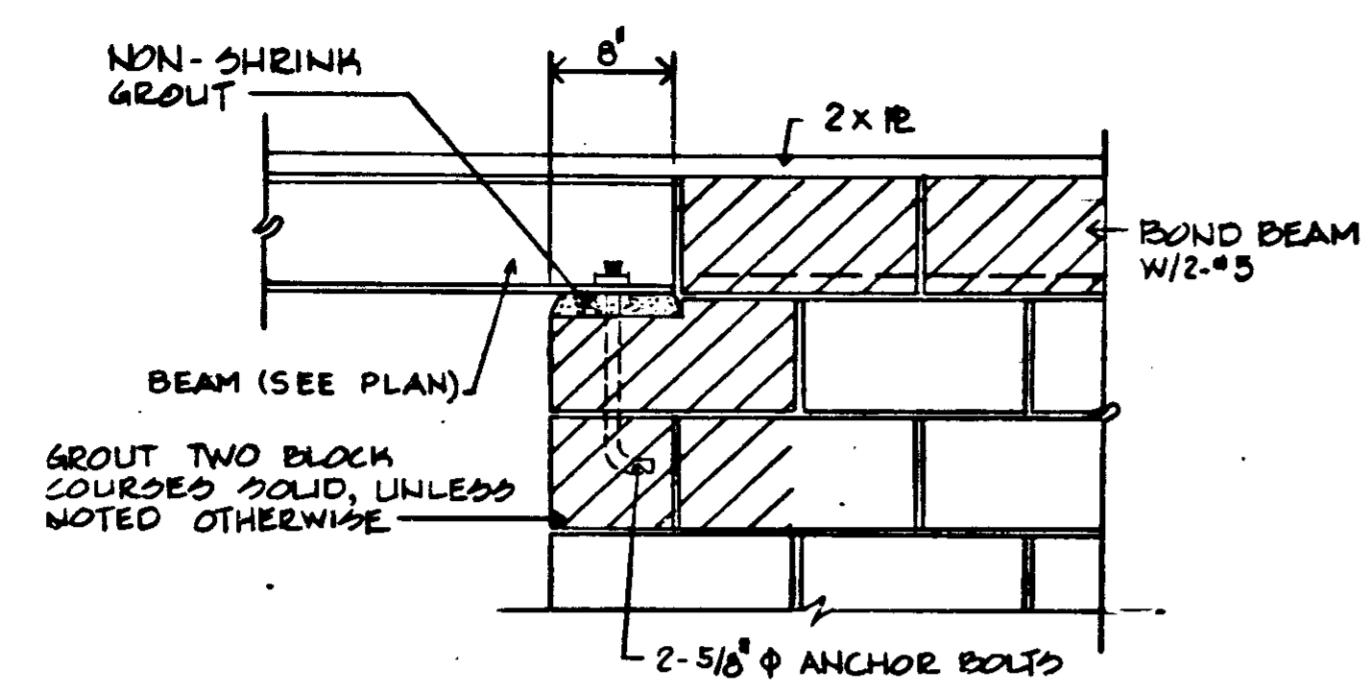
ELEVATIONS/SECTIONS/DETAILS

DELETE DETAILS ; APRIL 27, 1990 REVISED

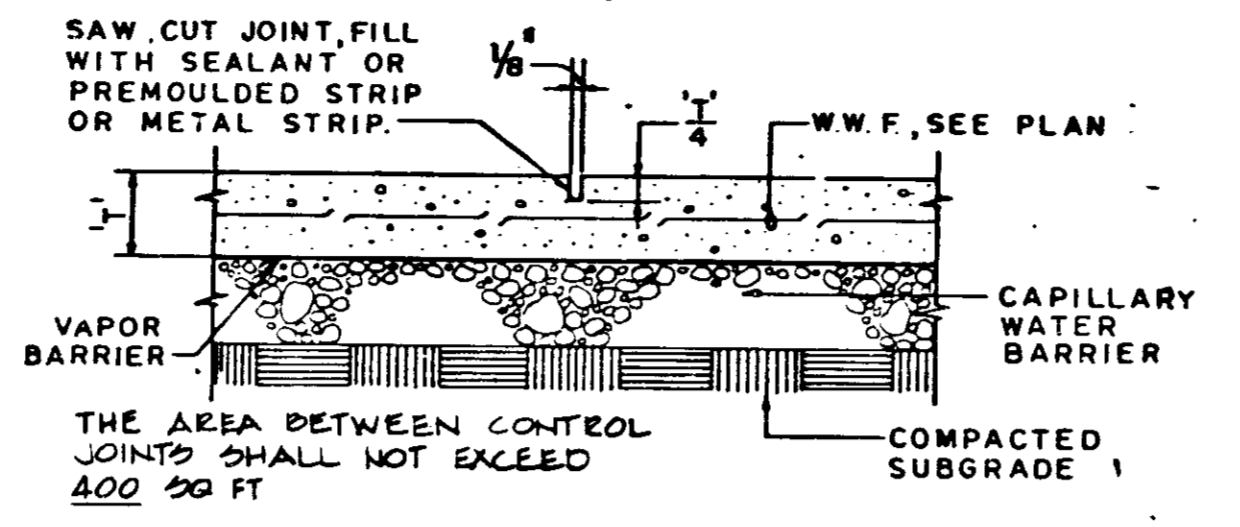


R-19057

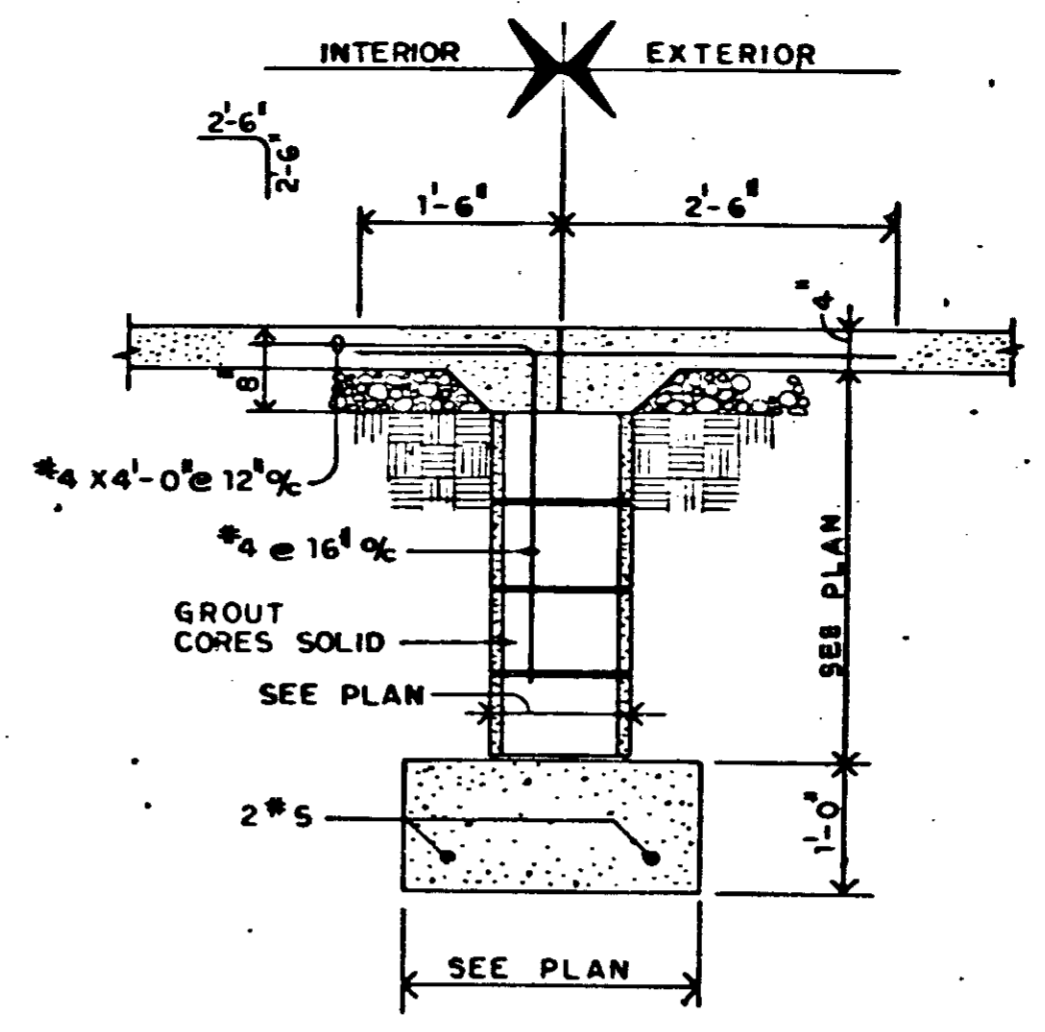
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-1-10-70-1(20)	1989	69	171



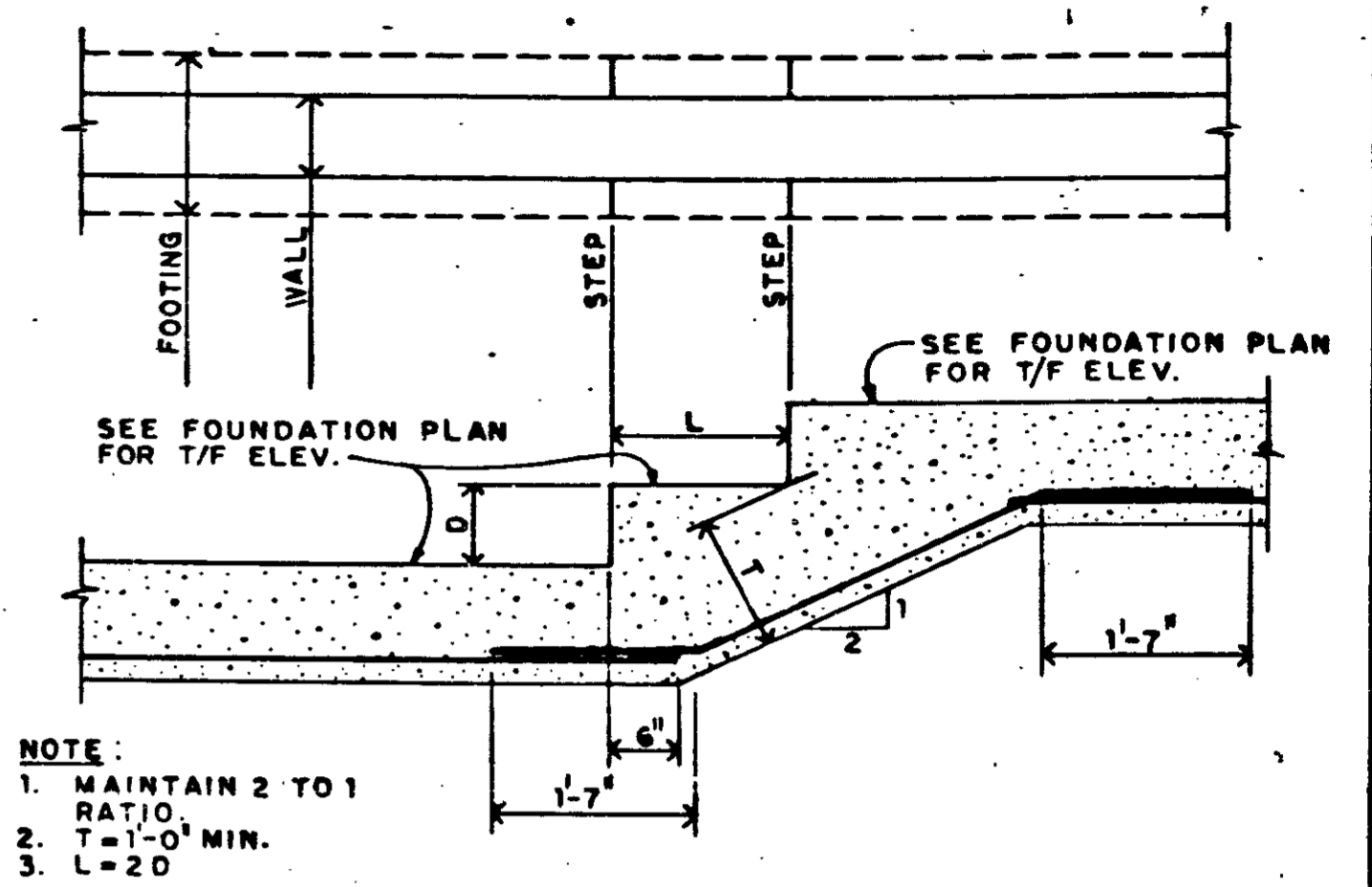
TYPICAL BEAM BEARING DETAIL



TYPICAL SLAB CONTROL JOINT

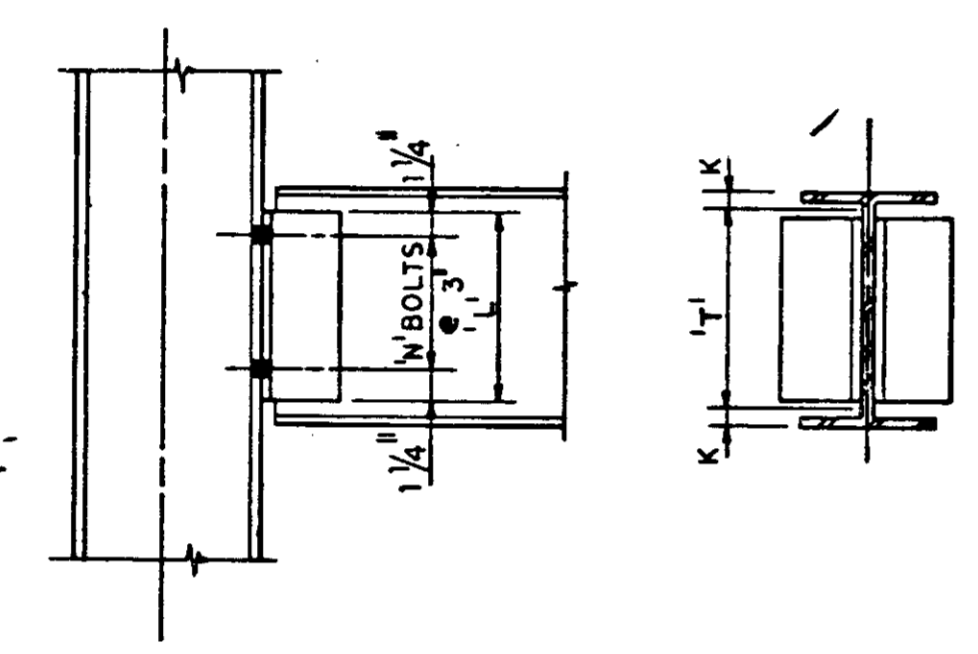


TYPICAL SECTION THRU EXTERIOR PASS DOOR



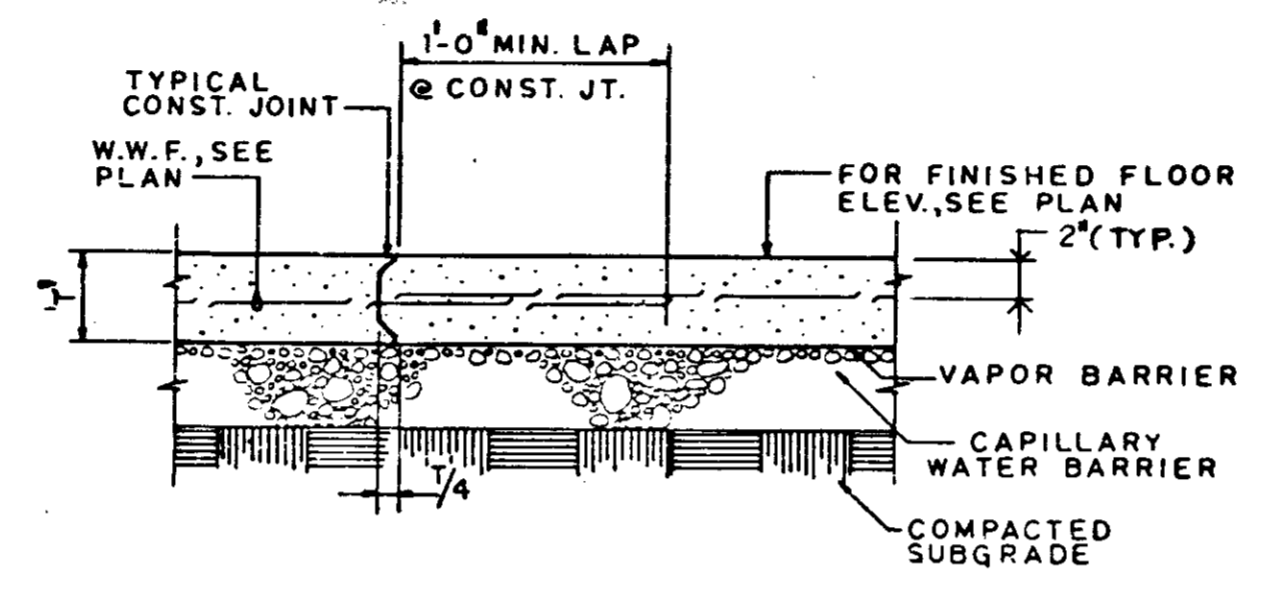
- NOTE:
 1. MAINTAIN 2 TO 1 RATIO.
 2. T=1'-0" MIN.
 3. L=2D

TYPICAL STEP FOOTING DETAIL

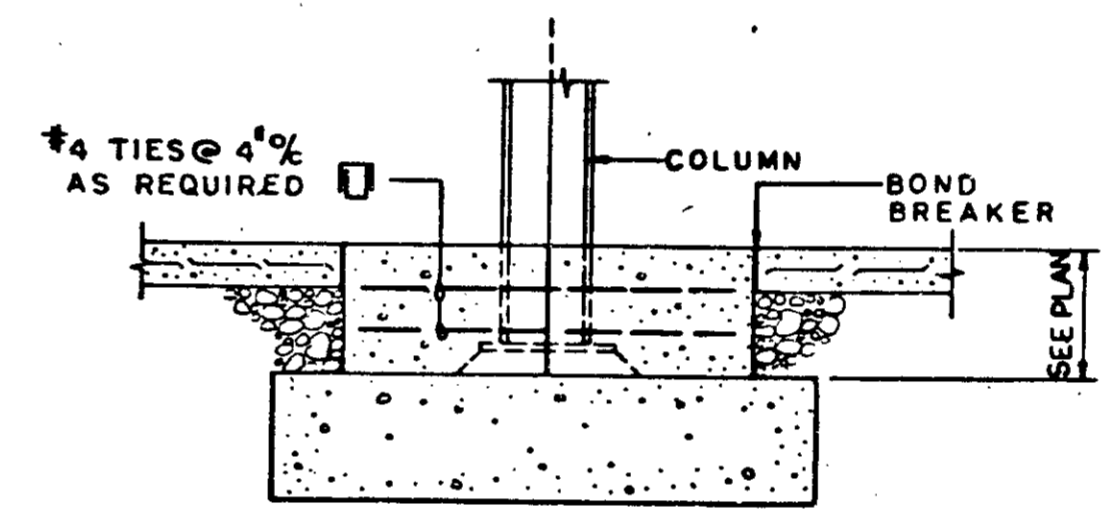


TYPICAL COLUMN TO BEAM CONNECTION

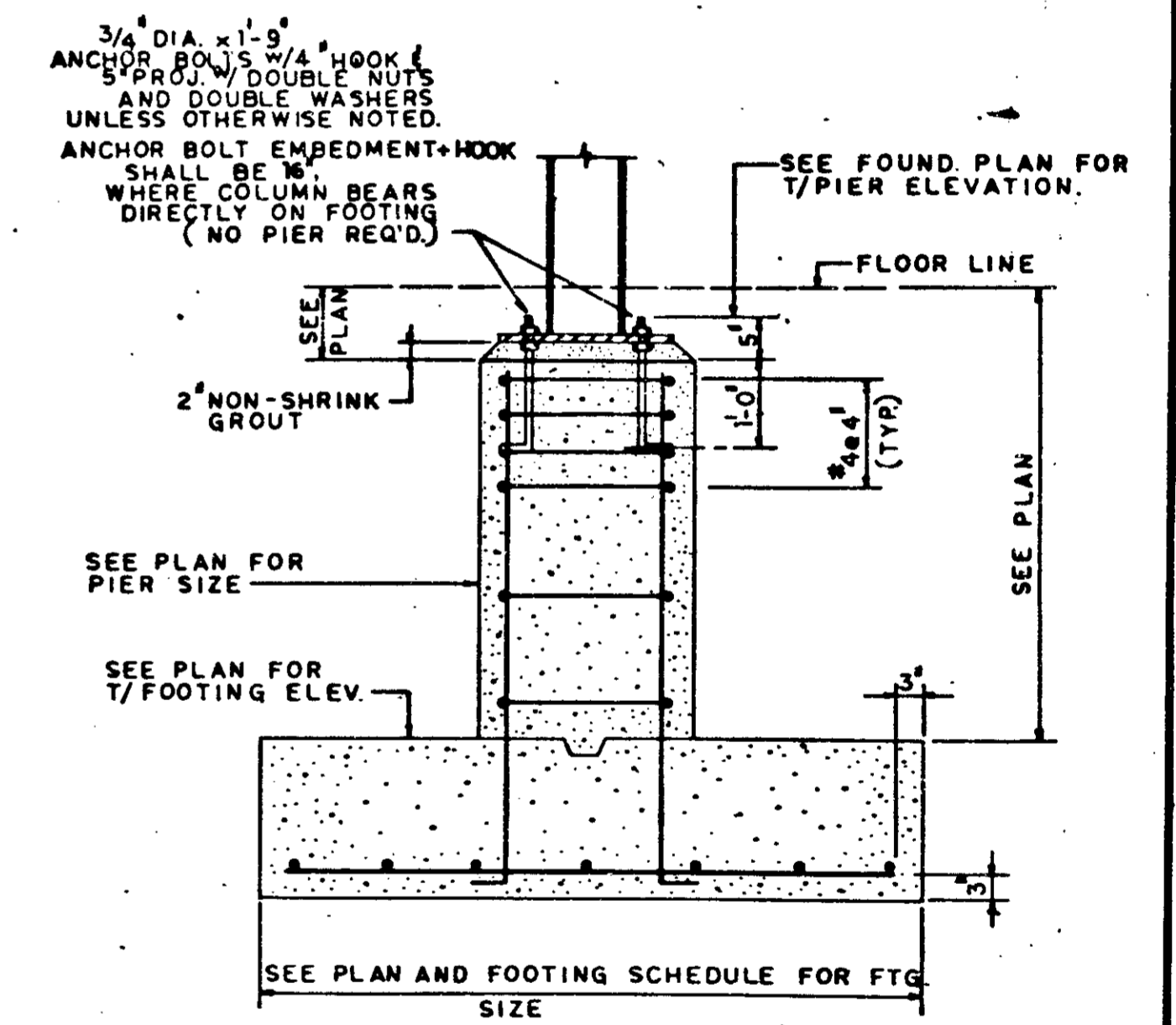
- NOTES:
 LENGTH OF CONNECTION ANGLE 'L' TO BE LARGEST VALUE LESS THAN OR EQUAL TO 'T'.
 STANDARD VALUES OF 'L' FOUND IN A.I.S.C. MANUAL OF STEEL CONSTRUCTION, EIGHT EDITION FRAMED BEAM CONNECTIONS, TABLE II.



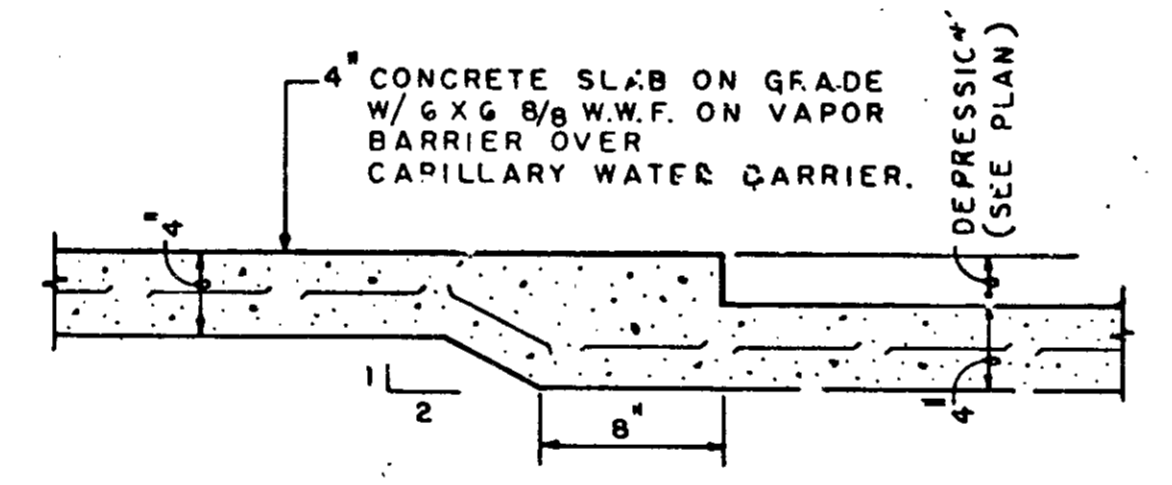
TYPICAL SLAB ON GRADE CONSTRUCTION JOINT



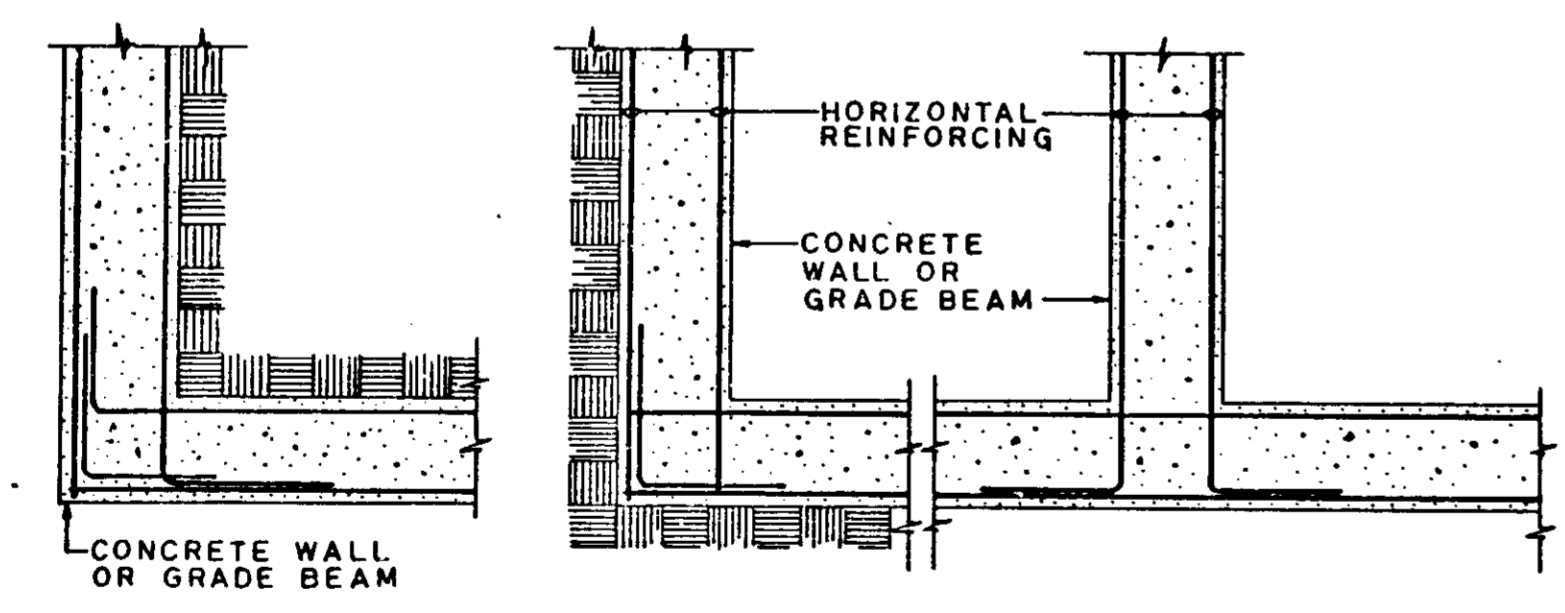
TYPICAL COLUMN CONSTRUCTION JOINT



TYPICAL PIER AND FOOTING DETAIL

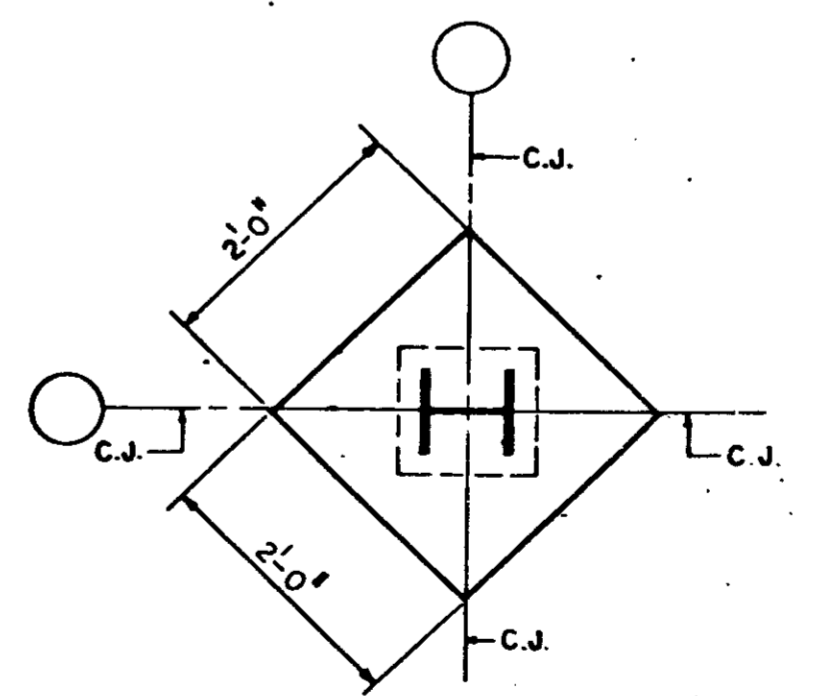


TYPICAL SLAB DEPRESSION DETAIL



TYPICAL CORNER DETAIL FOR HORIZONTAL REINFORCING

- NOTES:
 1. EXTEND BARS FULL TENSION LAP SPLICE AROUND CORNERS.
 2. VERTICAL BARS NOT SHOWN FOR CLARITY.
 3. CORNER BARS MAY BE USED IN LIEU OF EXTENDING BARS AROUND CORNERS. CORNER BARS SHALL BE THE SAME SIZE AND SPACING AS HORIZONTAL BARS, AND SHALL LAP FULL TENSION LAP W/ HORIZ. STEEL.



- CONTROL JOINTS MAY BE LOCATED ON COLUMN GRID LINES, PROVIDING THE SQ. FT. AREA DOES NOT EXCEED 400 SQ. FT.

TYPICAL THICKENED SLAB

DETAILS

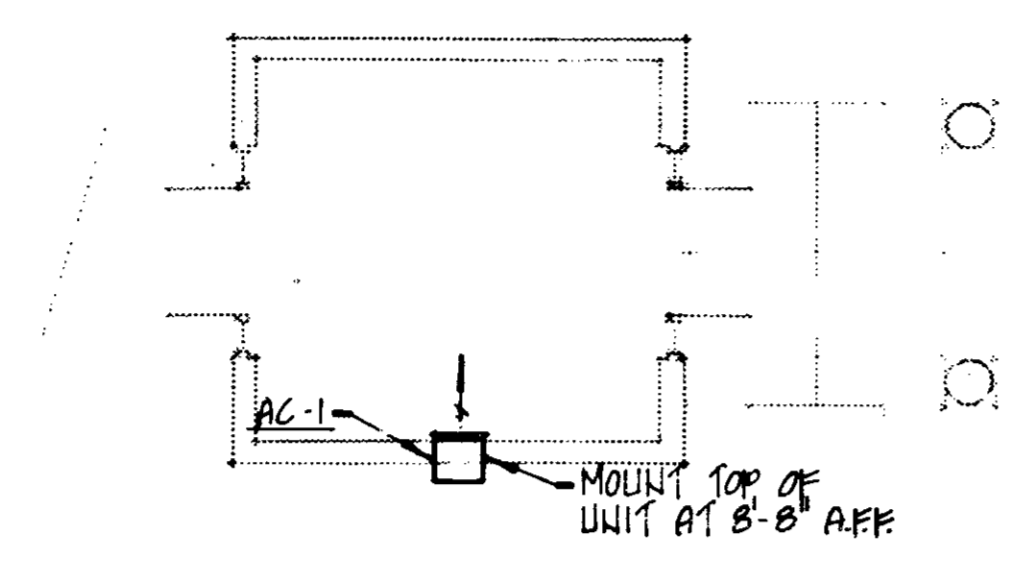
TYPICAL DETAILS

ADD DETAILS; APRIL 27, 1990 REVISED

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ROOM NUMBER	ROOM NAME
101	WOMEN
102	PLUMBING CHASE
103	WOMEN
104	ELECTRICAL ROOM
105	MECHANICAL ROOM
106	PASSAGE
107	GALLERY
108	PASSAGE
109	TOURISM
110	WORKROOM
111	MEN
112	PLUMBING CHASE
113	MEN

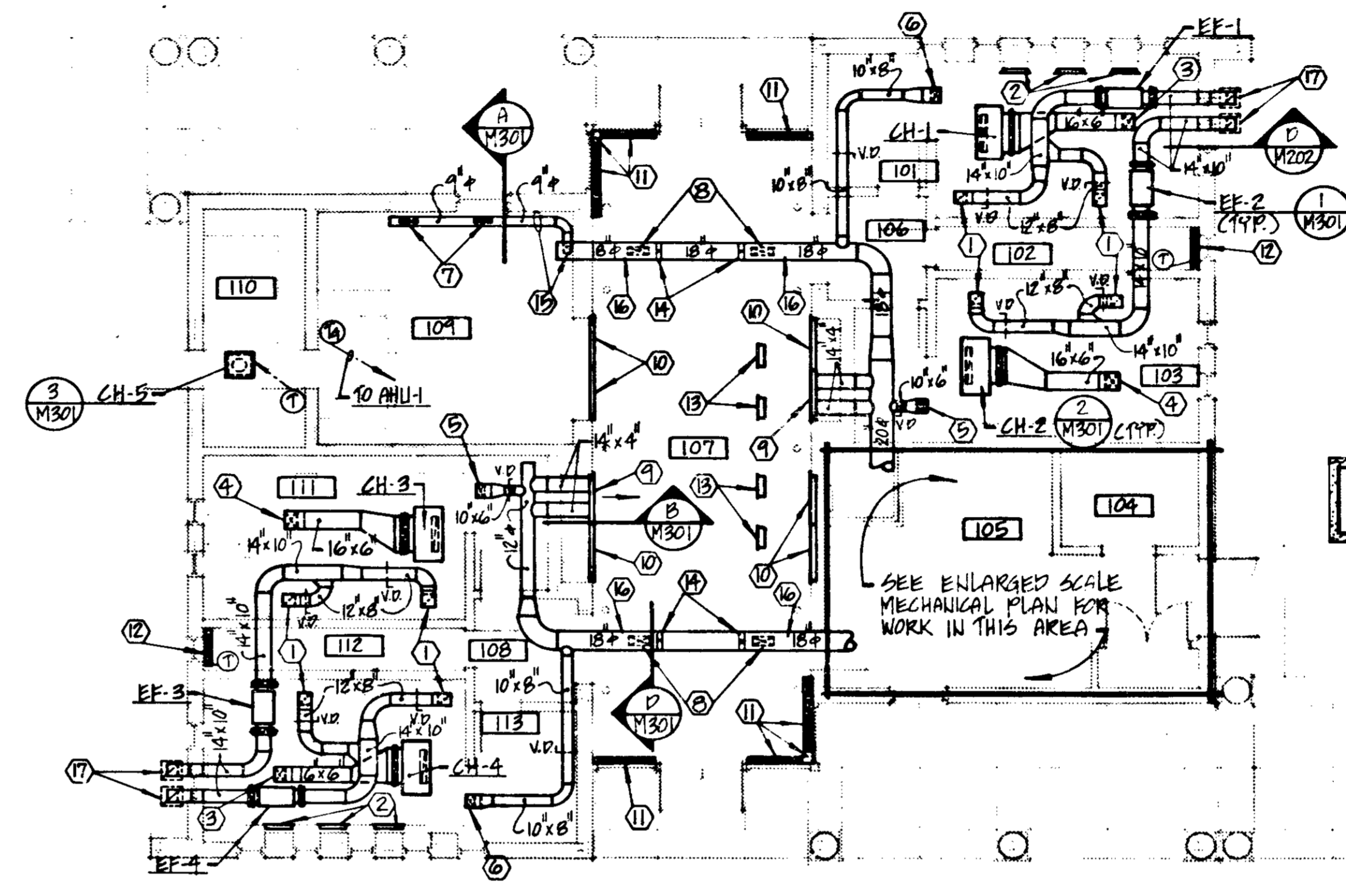


PLAN NOTES:

- ① 12"x12" EA, 375 CFM EACH (TYPICAL)
- ② 24"x16" GRILLE IN WALL, BOTTOM AT 8" AFF. SEE SHEETS A302 & A303 FOR ELEVATION OF THIS WALL. (TYPICAL)
- ③ 16"x8" SA, 410 CFM EACH.
- ④ 16"x8" SA, 320 CFM EACH.
- ⑤ 12"x6" SK, 250 CFM EACH.
- ⑥ 12"x8" SK, 350 CFM EACH.
- ⑦ 16"x4" SK, 250 CFM EACH.
- ⑧ 16"x6" SK IN BOTTOM OF DUCT, 500 CFM EACH.
- ⑨ 4"-Ø LINEAR DIFFUSER, 350 CFM EACH. SEE SECTION (B) M301
- ⑩ 4"-Ø LINEAR DIFFUSER WITH BLANK-OFF PANELS.
- ⑪ 4"-Ø TYPE "A" RADIATION, 3.4 MBH & 1.0 KW EACH. PROVIDE ENCLOSURE, END CAPS & INSIDE CORNER PIECES.
- ⑫ 3"-Ø TYPE "B" RADIATION, 1.9 MBH & 0.56 KW EACH. MOUNT UNIT AT 48" AFF. THERMOSTAT IN RETURN AIR STREAM. WALL TO WALL ENCLOSURE.
- ⑬ 20"x10" RA IN HIGH WALL NEAR SKYLIGHT. SEE SHEET A302
- ⑭ TYPICAL GALLERY AREA DUCT HANGER - SEE DETAIL (B) M301
- ⑮ 9" Ø DUCT OFF BOTTOM OF 16" Ø DUCT. ROUTE 9" Ø DUCT IN BULKHEAD.
- ⑯ 18" Ø SUPPLY DUCTS THAT PASS THROUGH THE GALLERY EXPOSED SHALL BE A CONTINUOUS LENGTH OF DUCTWORK (NO JOINTS)
- ⑰ 18"x18" SOFFIT GRILLE (TYPICAL)

GENERAL NOTES:

1. FOR EXACT LOCATION OF GRILLES, REGISTERS & CABINET HEATERS SEE REFLECTED CEILING PLAN.
2. IN THE RESTROOMS EXHAUST DUCTWORK SHALL BE ROUTED ABOVE THE BOTTOM CORD OF WOOD TRUSSES WHILE SUPPLY DUCTWORK FROM CABINET HEATERS SHALL BE BELOW BOTTOM CORD OF WOOD TRUSSES.

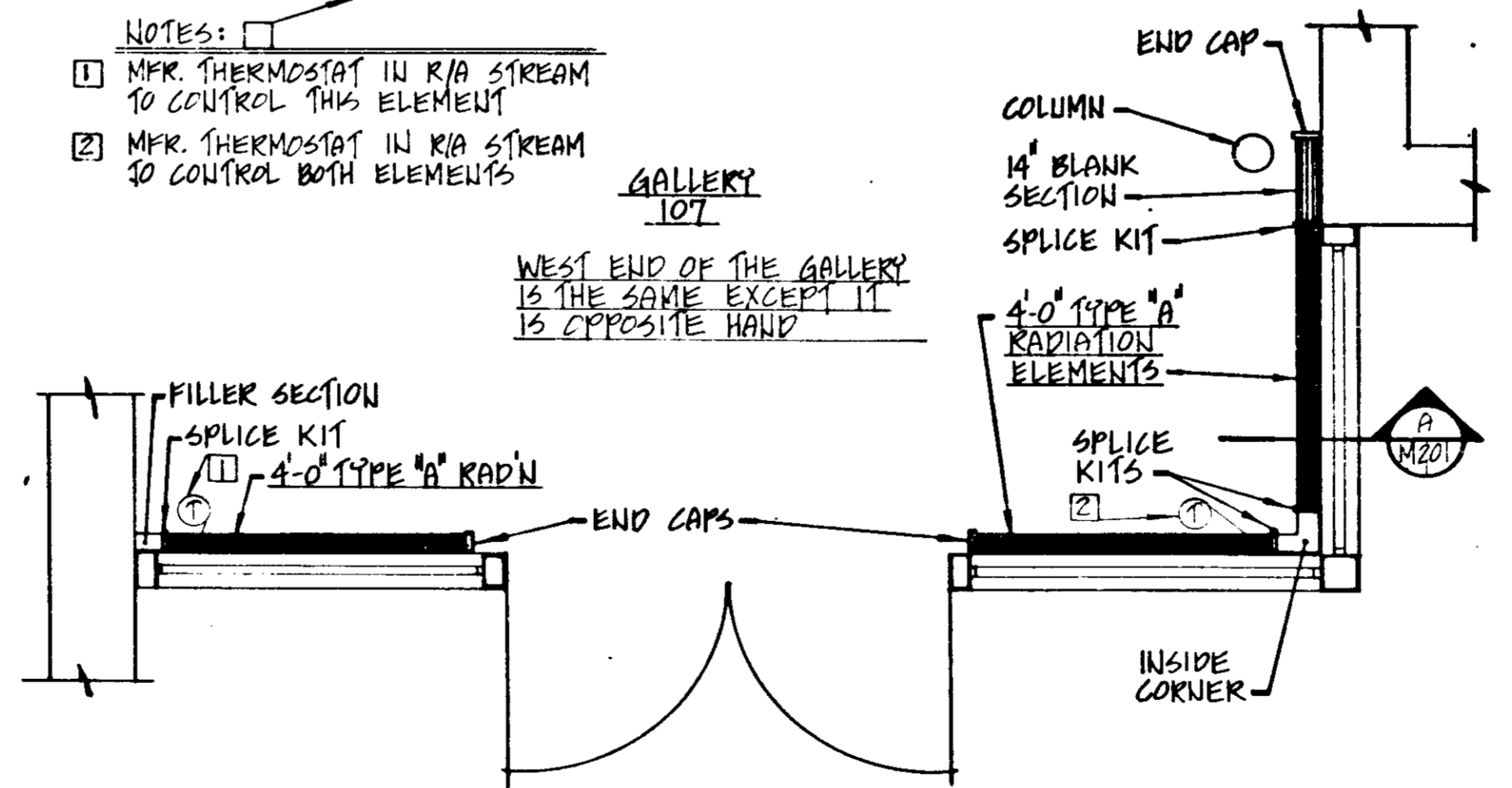


FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

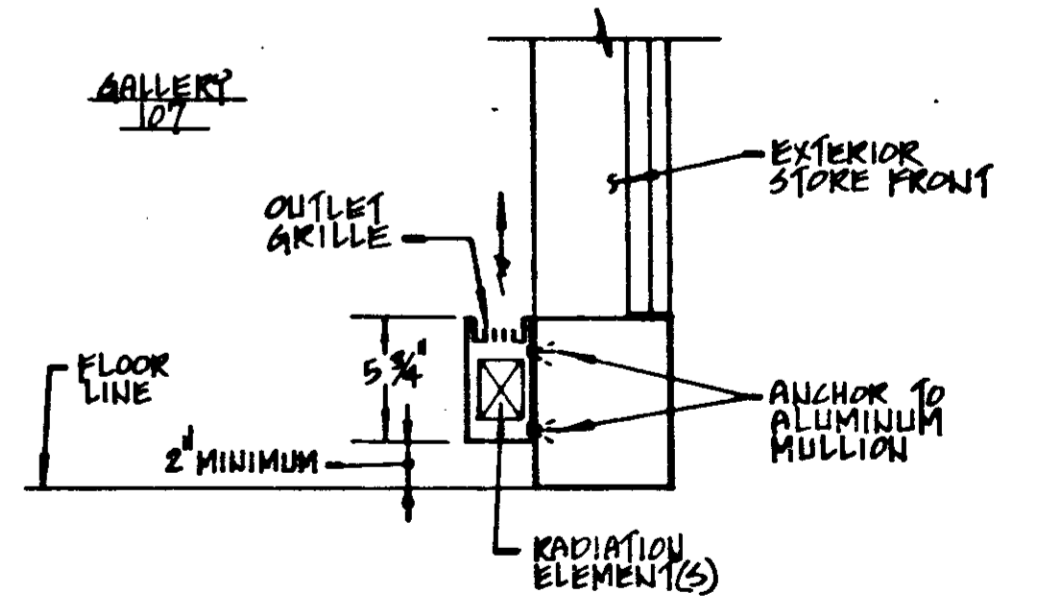
NOTES:

- ① MFR. THERMOSTAT IN R/A STREAM TO CONTROL THIS ELEMENT
- ② MFR. THERMOSTAT IN R/A STREAM TO CONTROL BOTH ELEMENTS



LARGE SCALE RADIATION PLAN

SCALE: 1/2" = 1'-0"

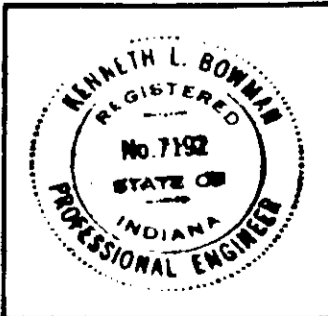


SECTION

NO SCALE

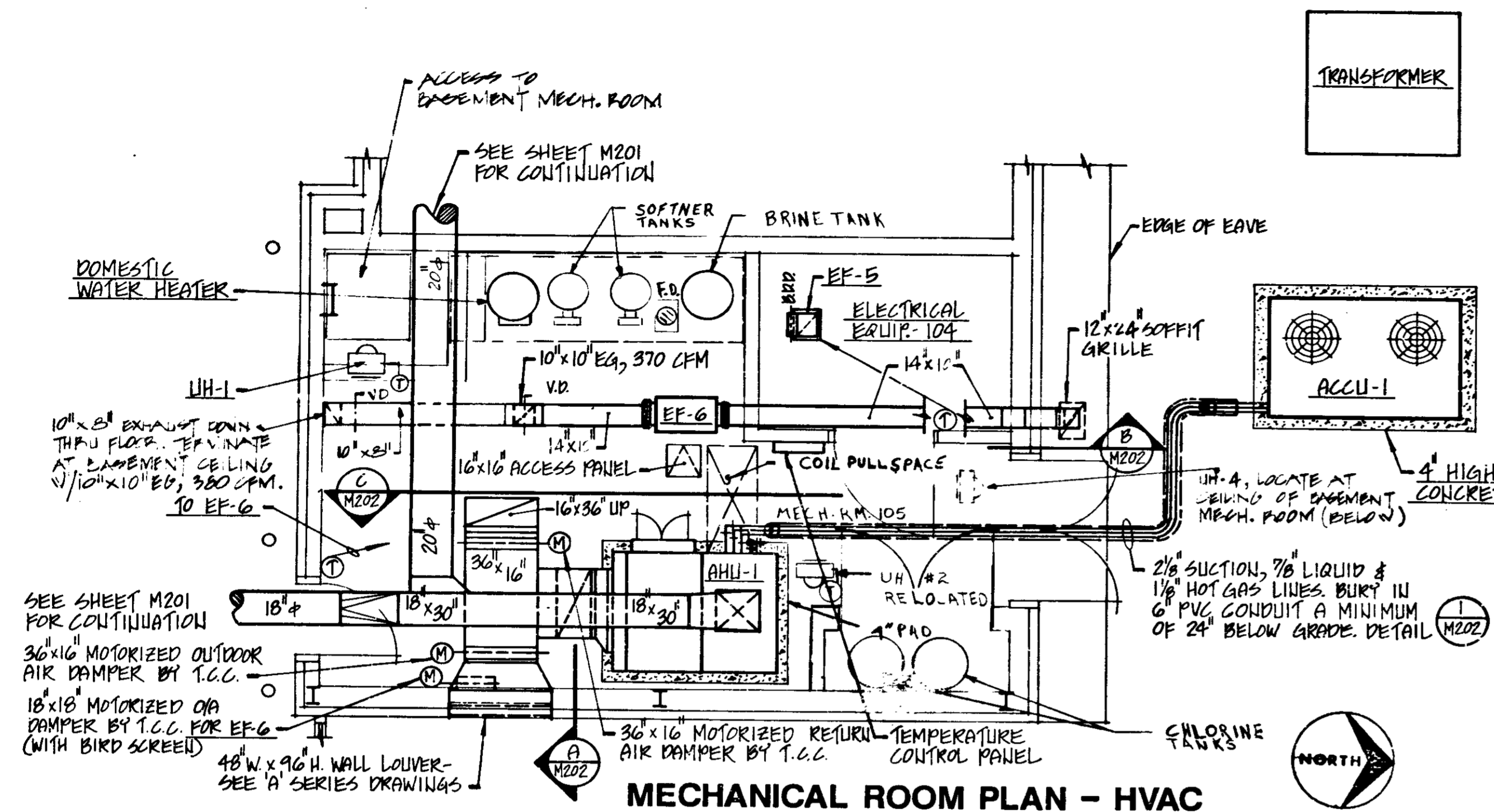
DETAILS

FLOOR PLAN - MECHANICAL

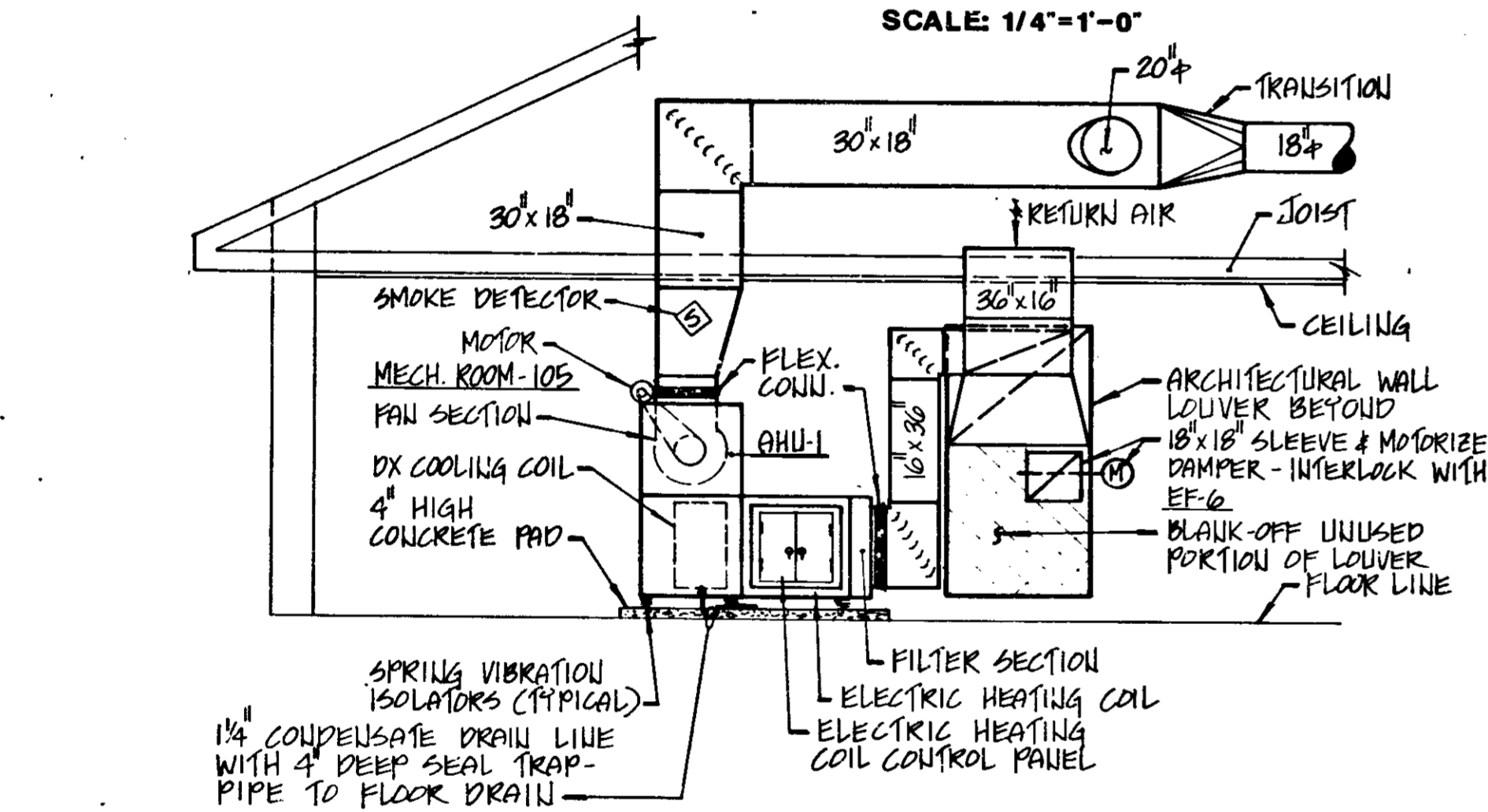


84002
FP1 X

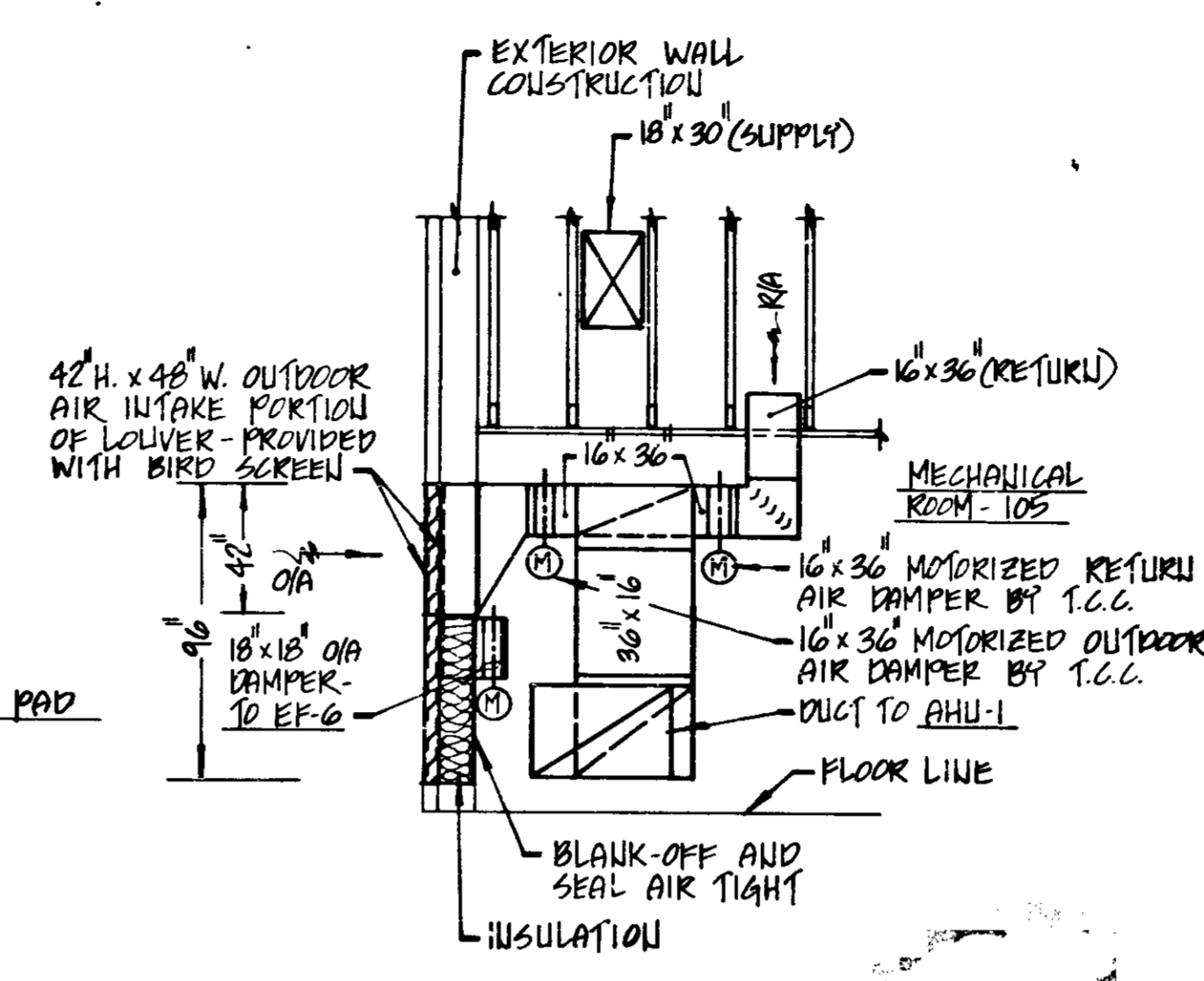
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IE-110-70-600	1989	71	171



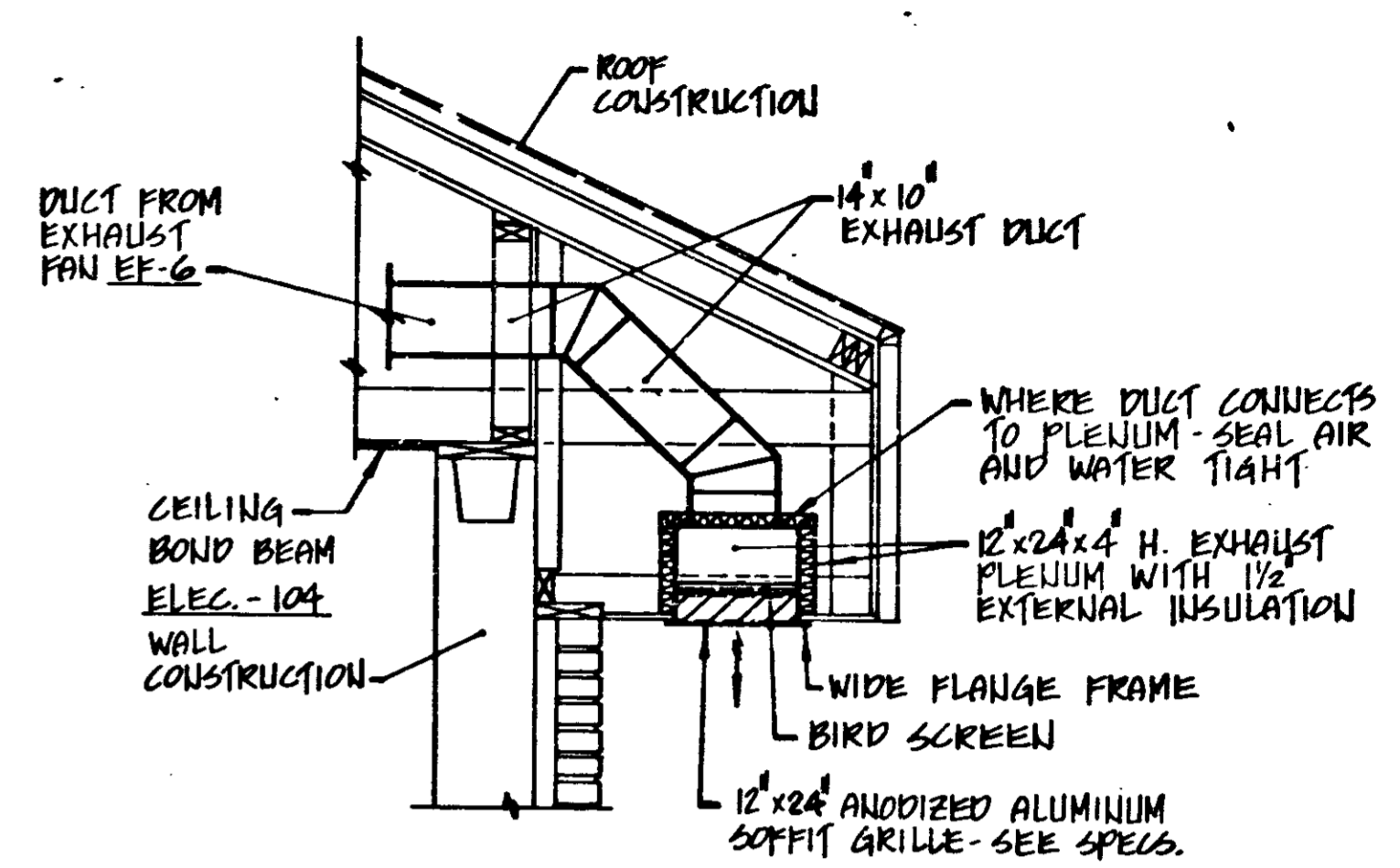
MECHANICAL ROOM PLAN - HVAC
SCALE: 1/4"=1'-0"



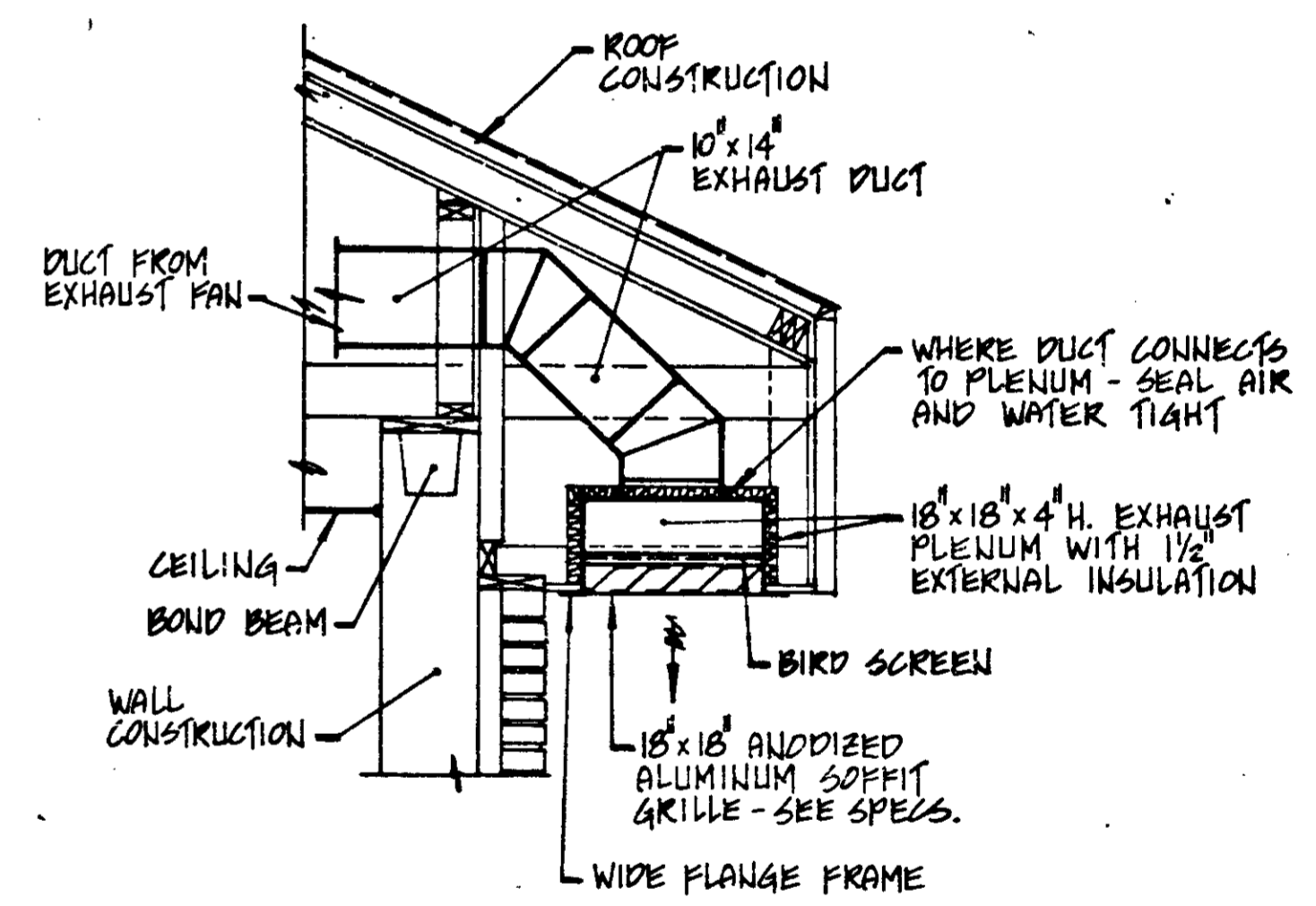
SECTION C
NO SCALE



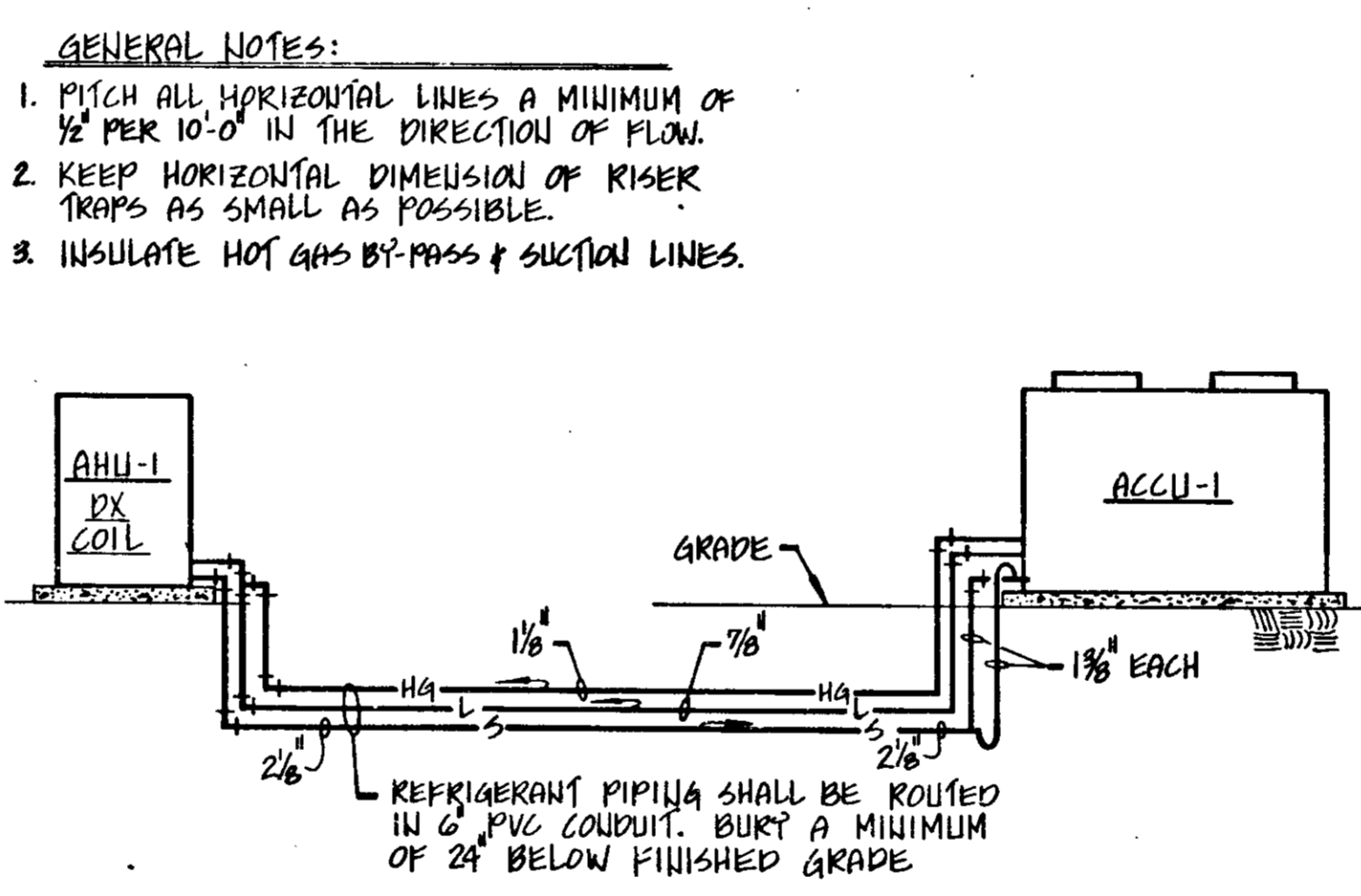
SECTION A
NO SCALE



SECTION B
NO SCALE



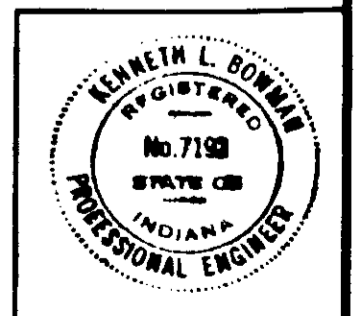
SECTION D
NO SCALE



REFRIGERANT PIPING DETAIL
NO SCALE

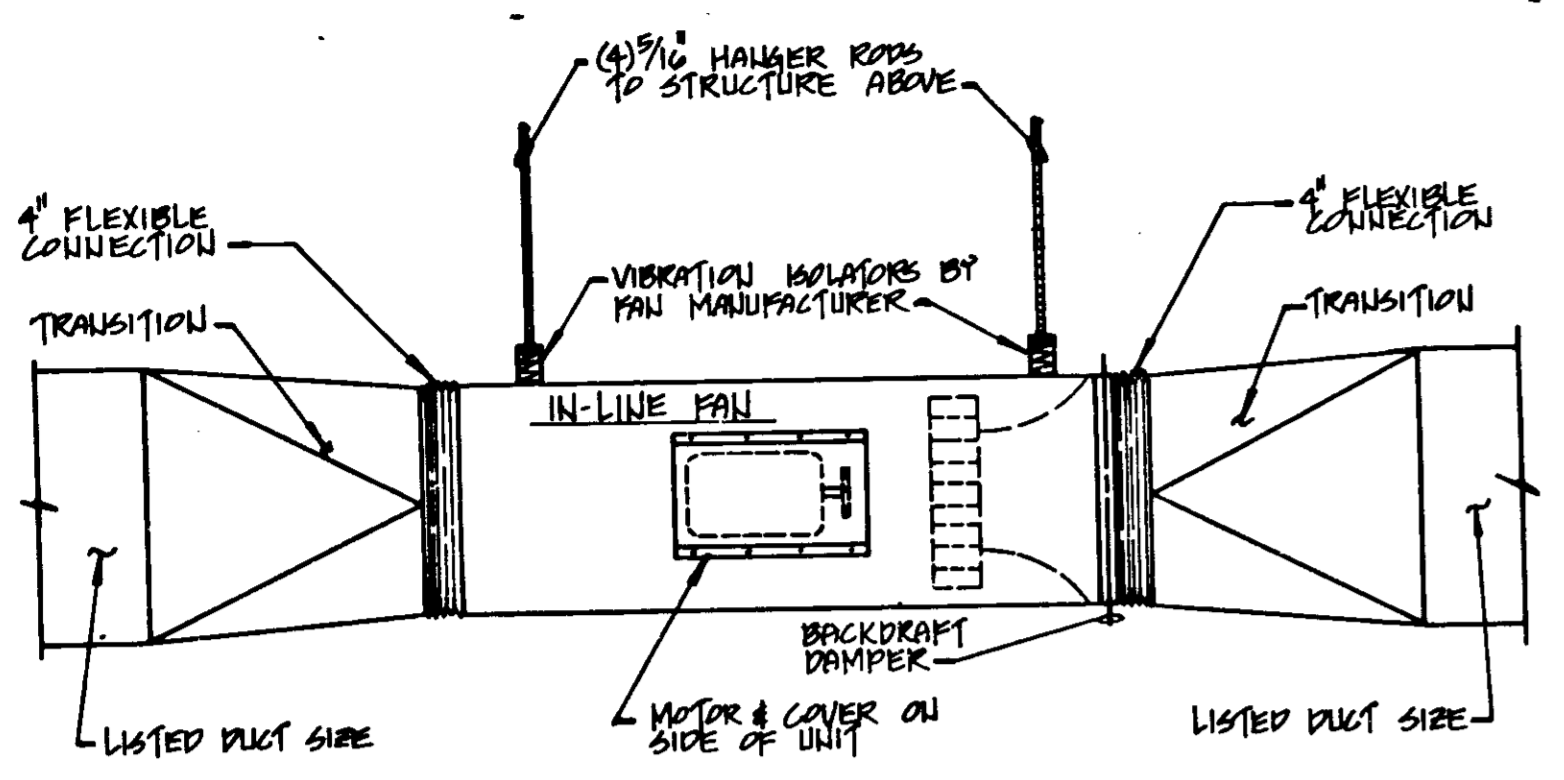
- GENERAL NOTES:**
1. PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" PER 10'-0" IN THE DIRECTION OF FLOW.
 2. KEEP HORIZONTAL DIMENSION OF RISER TRAPS AS SMALL AS POSSIBLE.
 3. INSULATE HOT GAS BY-PASS & SUCTION LINES.

DETAILS
LARGE SCALE PLANS AND
SECTIONS - MECHANICAL
R-19057

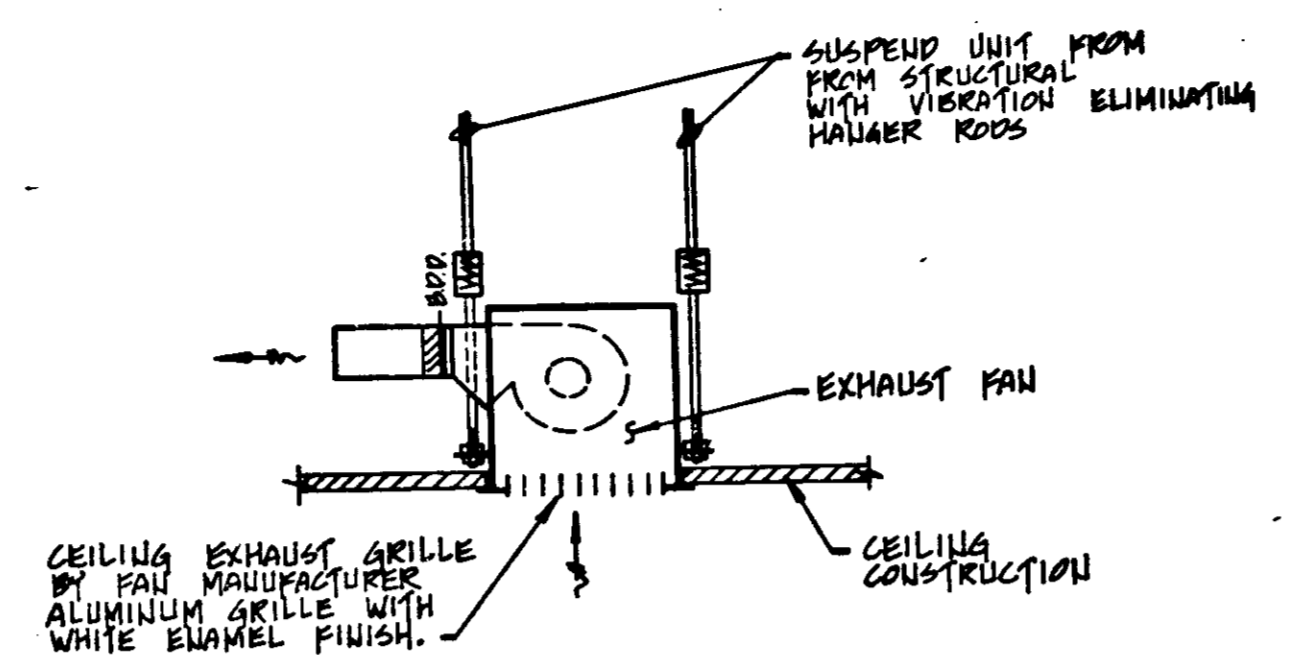


FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-10-70-1000	1982	72	171

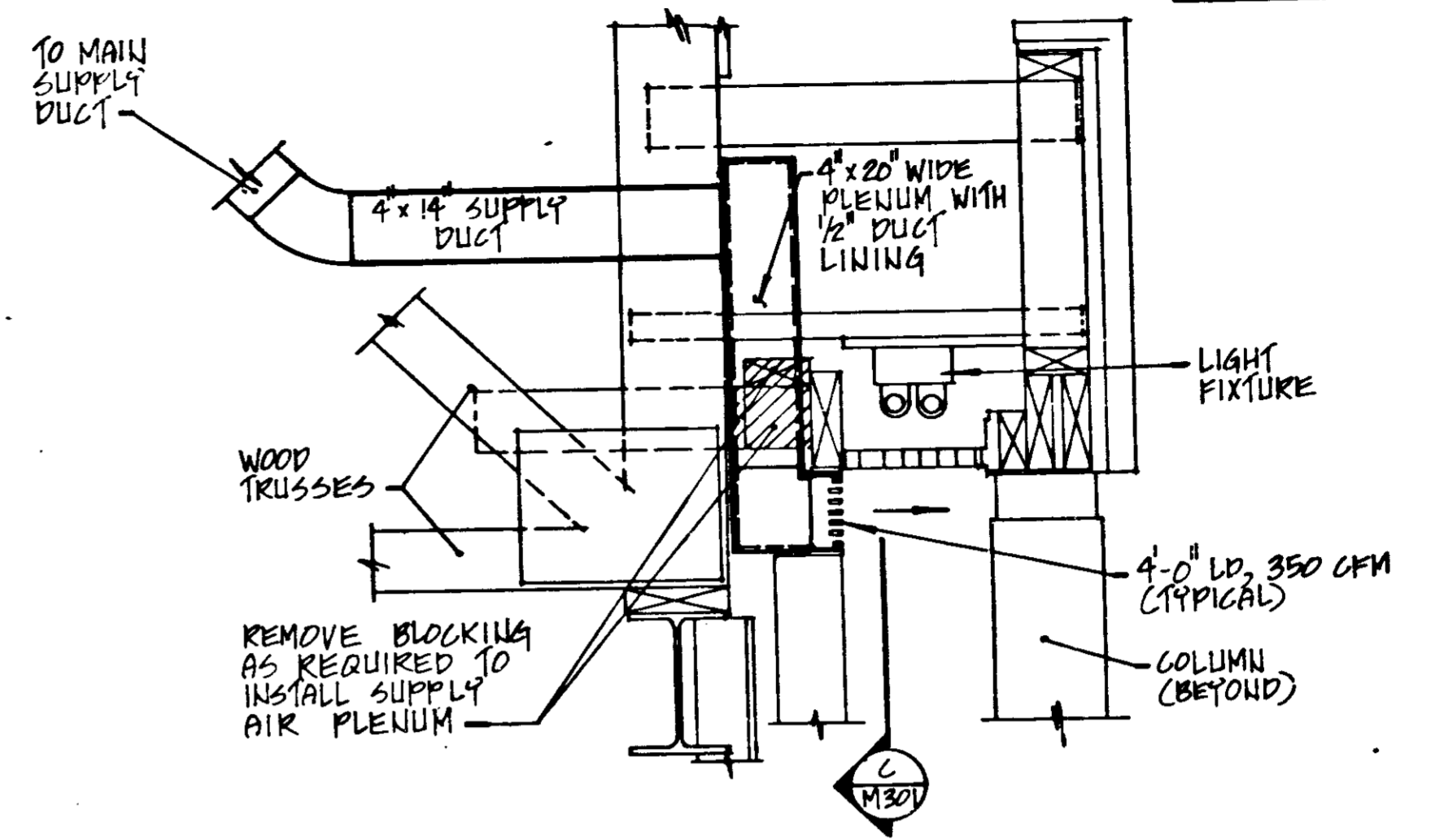
M301



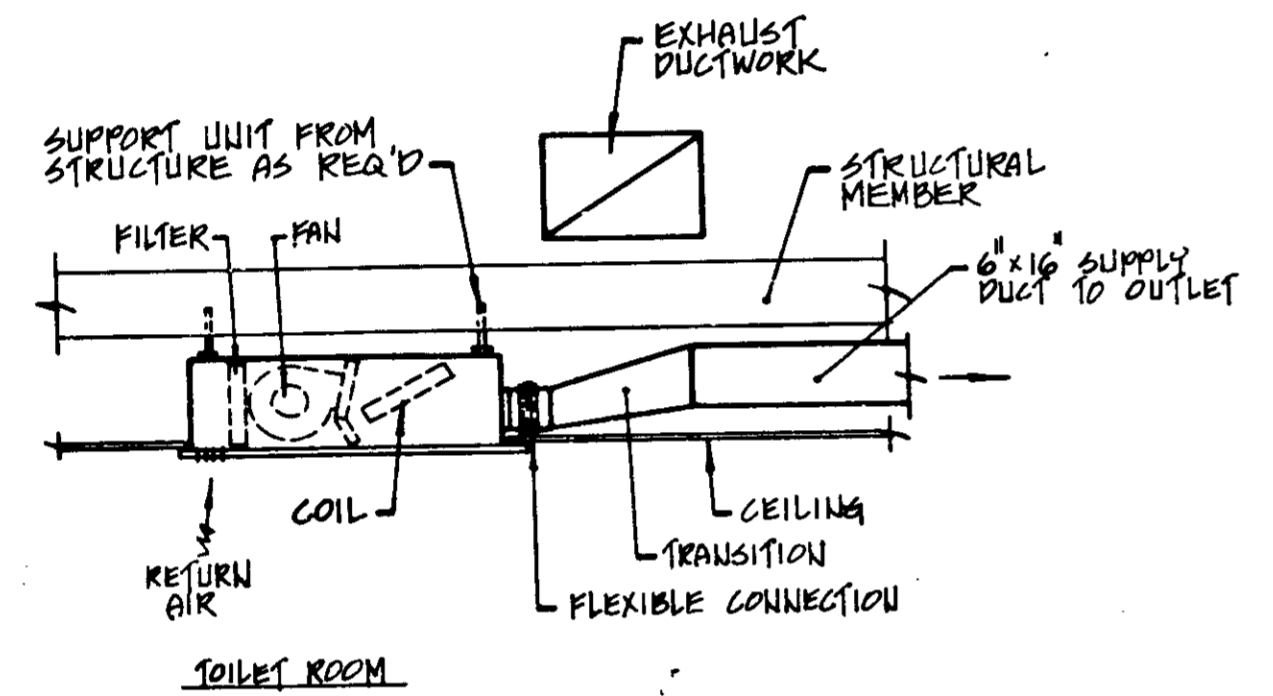
IN-LINE EXHAUST FAN DETAIL
NO SCALE (1) M301



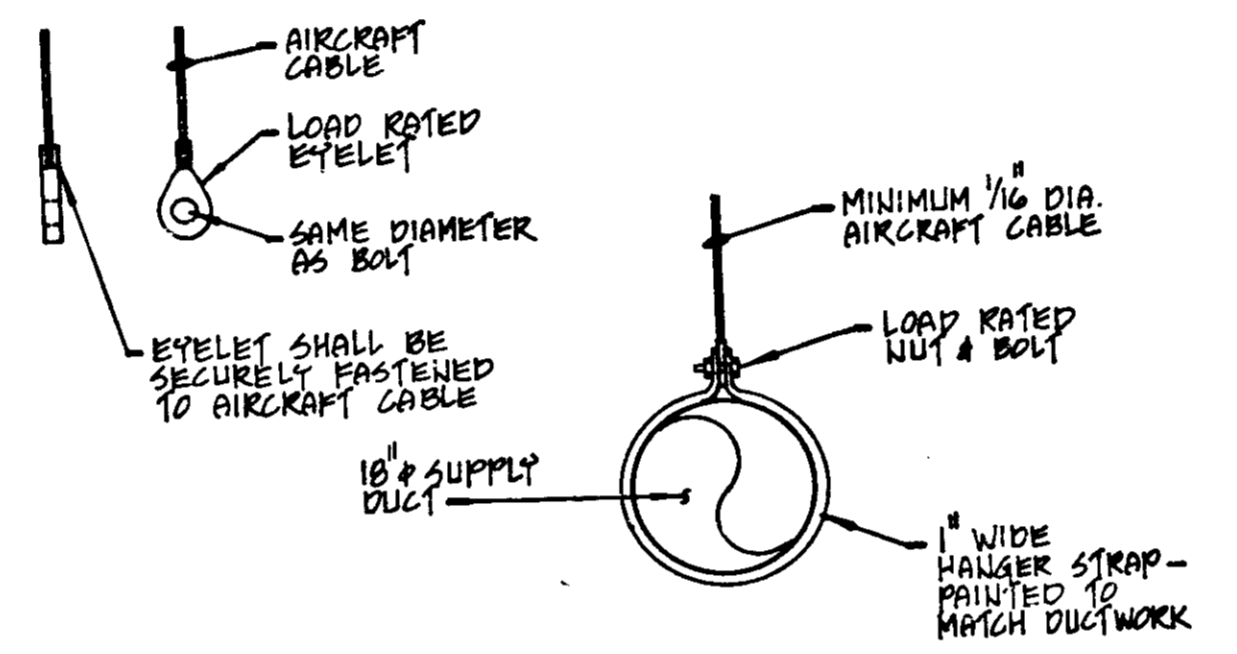
CEILING EXHAUST FAN DETAIL
NO SCALE (4) M301



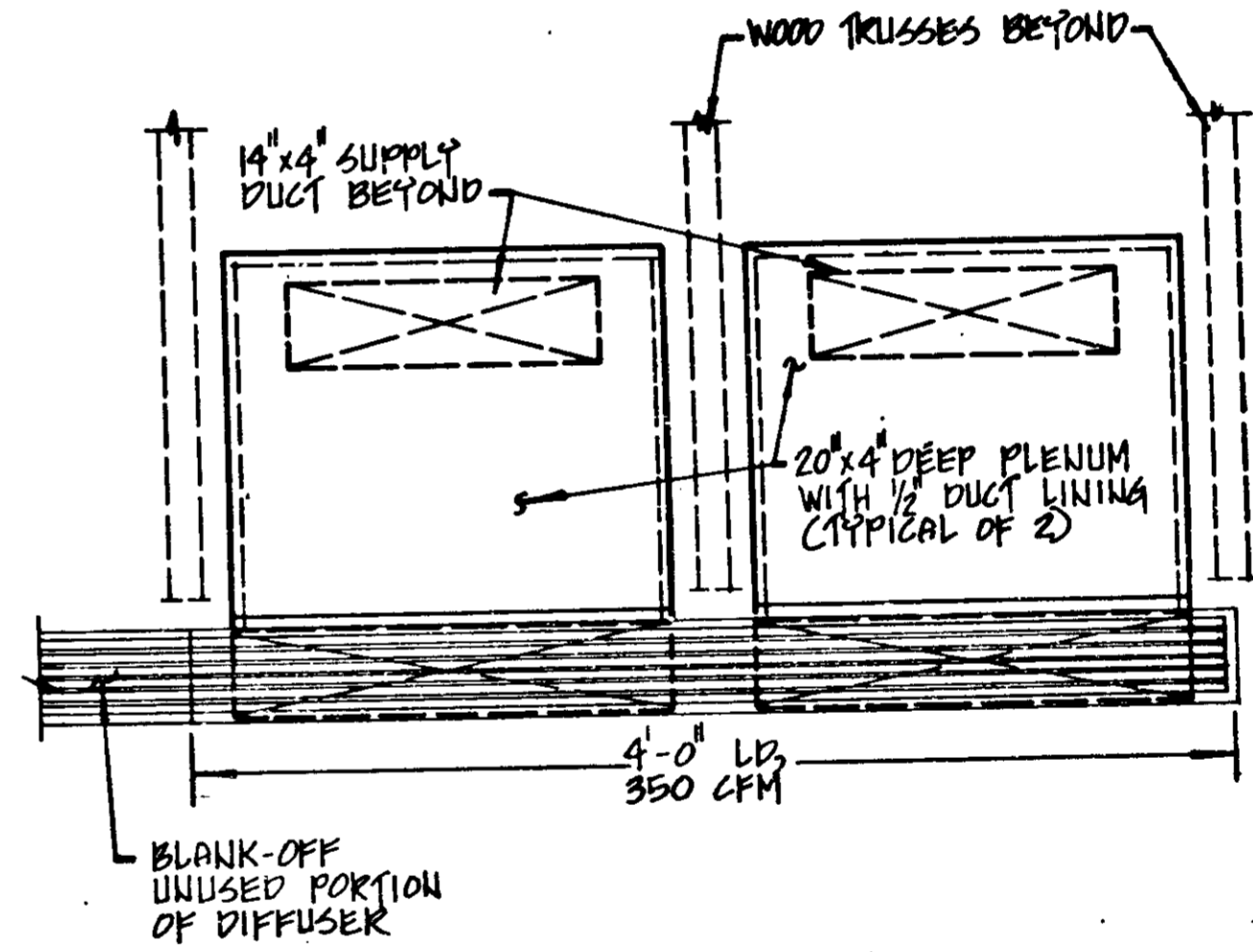
SECTION
SCALE: 1 1/2"=1'-0" (B) M301



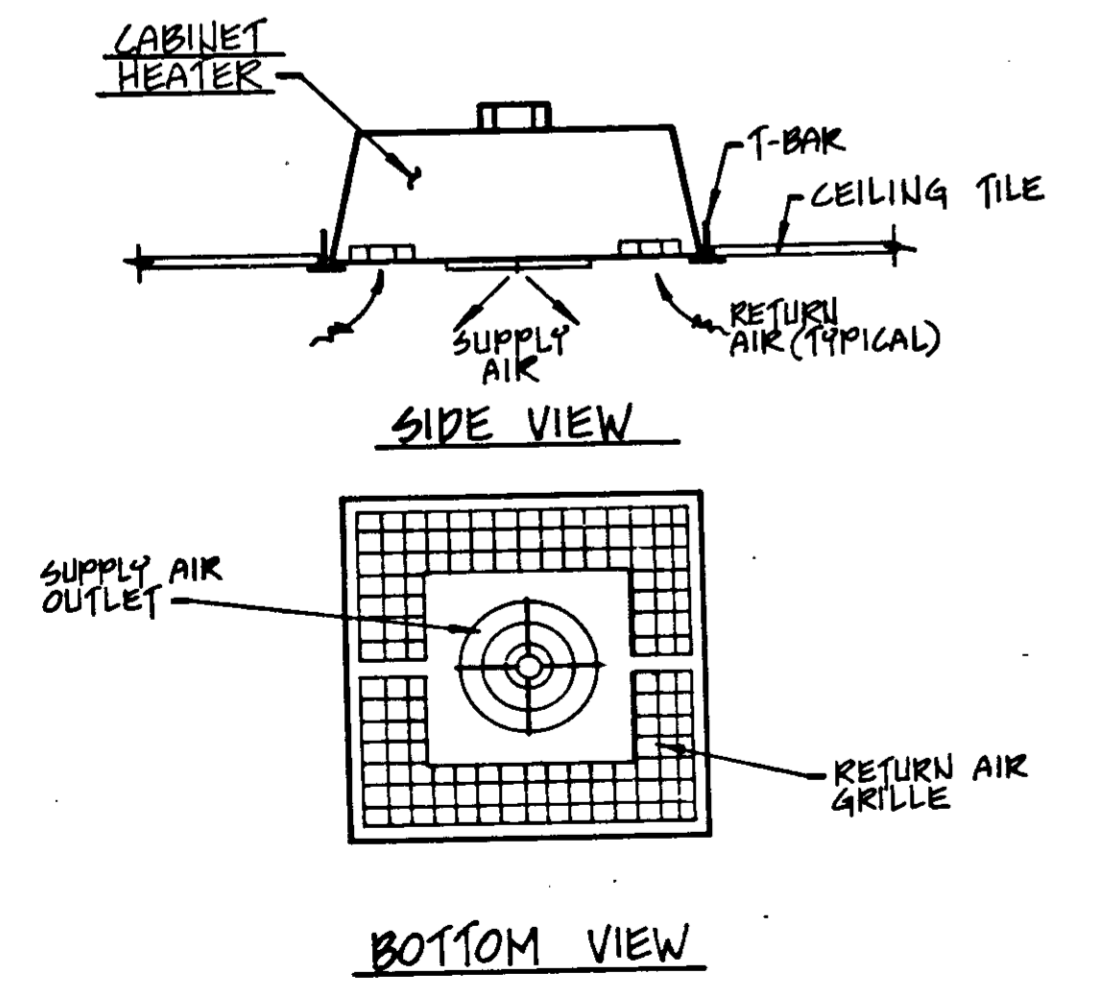
ELECTRIC CABINET HEATER DETAIL
(TYPICAL FOR CH-1 THRU CH-4) NO SCALE (2) M301



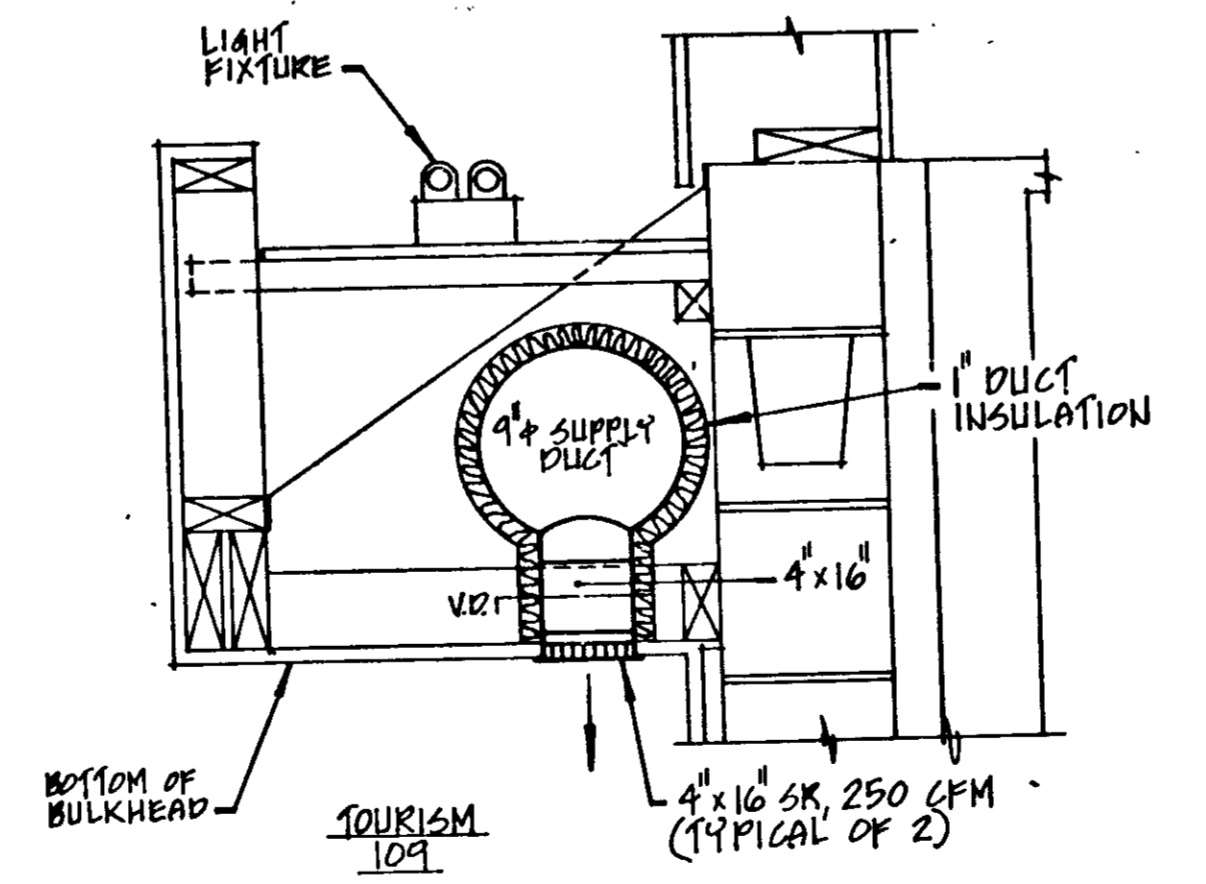
GALLERY DUCT HANGER DETAIL
NO SCALE (5) M301



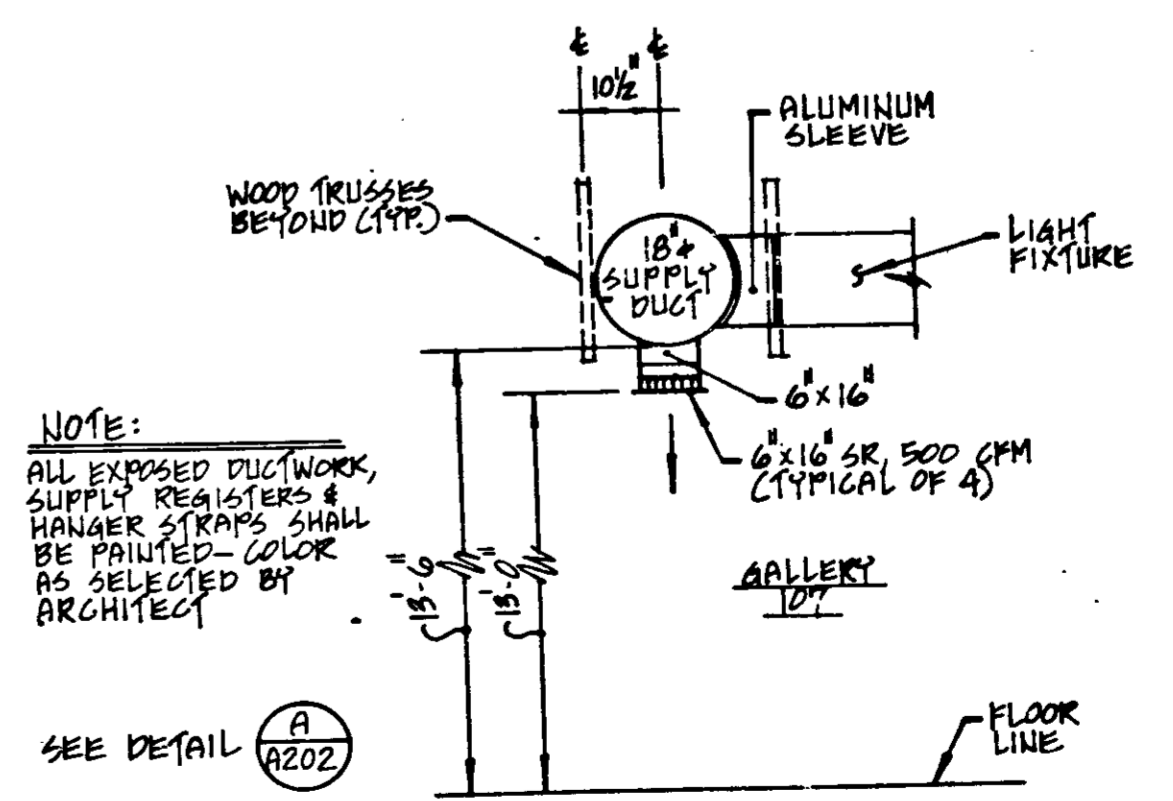
SECTION
SCALE: 1 1/2"=1'-0" (C) M301



ELECTRIC CABINET HEATER DETAIL
(TYPICAL FOR CH-5) NO SCALE (3) M301



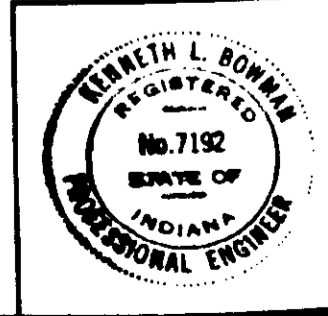
SECTION
SCALE: 1 1/2"=1'-0" (A) M301



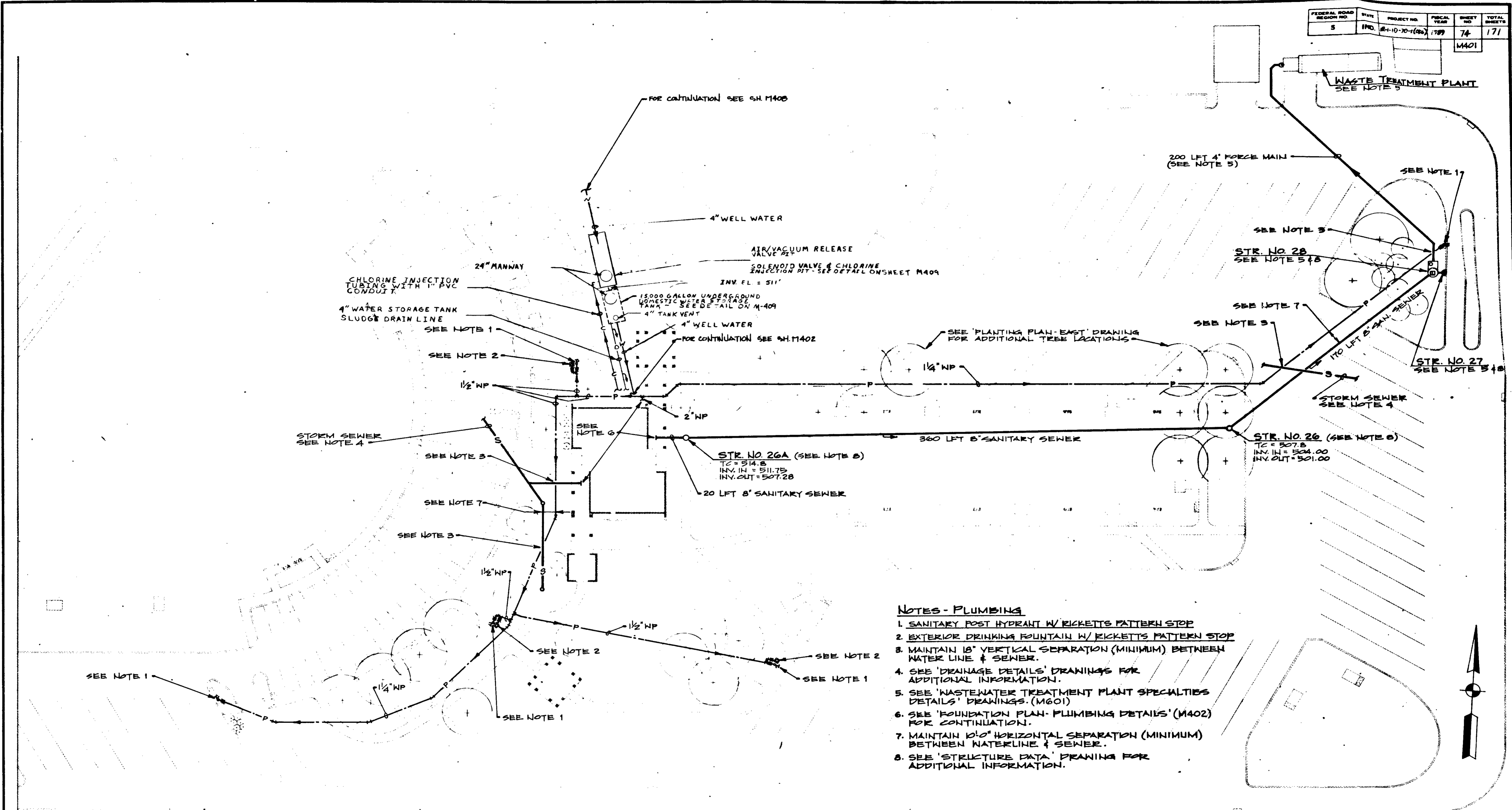
NOTE:
ALL EXPOSED DUCTWORK,
SUPPLY REGISTERS &
HANGER STRAPS SHALL
BE PAINTED COLOR
AS SELECTED BY
ARCHITECT

SECTION
NO SCALE (D) M301

DETAILS
SECTIONS AND DETAILS -
MECHANICAL
R-19057



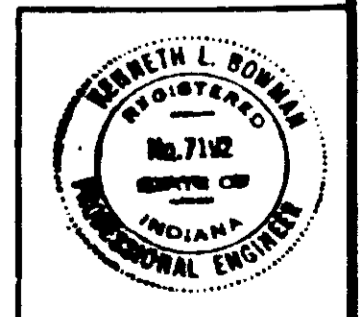
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	84-10-10-1(66)	1989	74	171



NOTES - PLUMBING

1. SANITARY POST HYDRANT W/ RICKETS PATTERN STOP
2. EXTERIOR DRINKING FOUNTAIN W/ RICKETS PATTERN STOP
3. MAINTAIN 18" VERTICAL SEPARATION (MINIMUM) BETWEEN WATER LINE & SEWER.
4. SEE 'DRAINAGE DETAILS' DRAWINGS FOR ADDITIONAL INFORMATION.
5. SEE 'WASTEWATER TREATMENT PLANT SPECIALTIES DETAILS' DRAWINGS. (M601)
6. SEE 'FOUNDATION PLAN - PLUMBING DETAILS' (M402) FOR CONTINUATION.
7. MAINTAIN 10' 0" HORIZONTAL SEPARATION (MINIMUM) BETWEEN WATERLINE & SEWER.
8. SEE 'STRUCTURE DATA' DRAWING FOR ADDITIONAL INFORMATION.

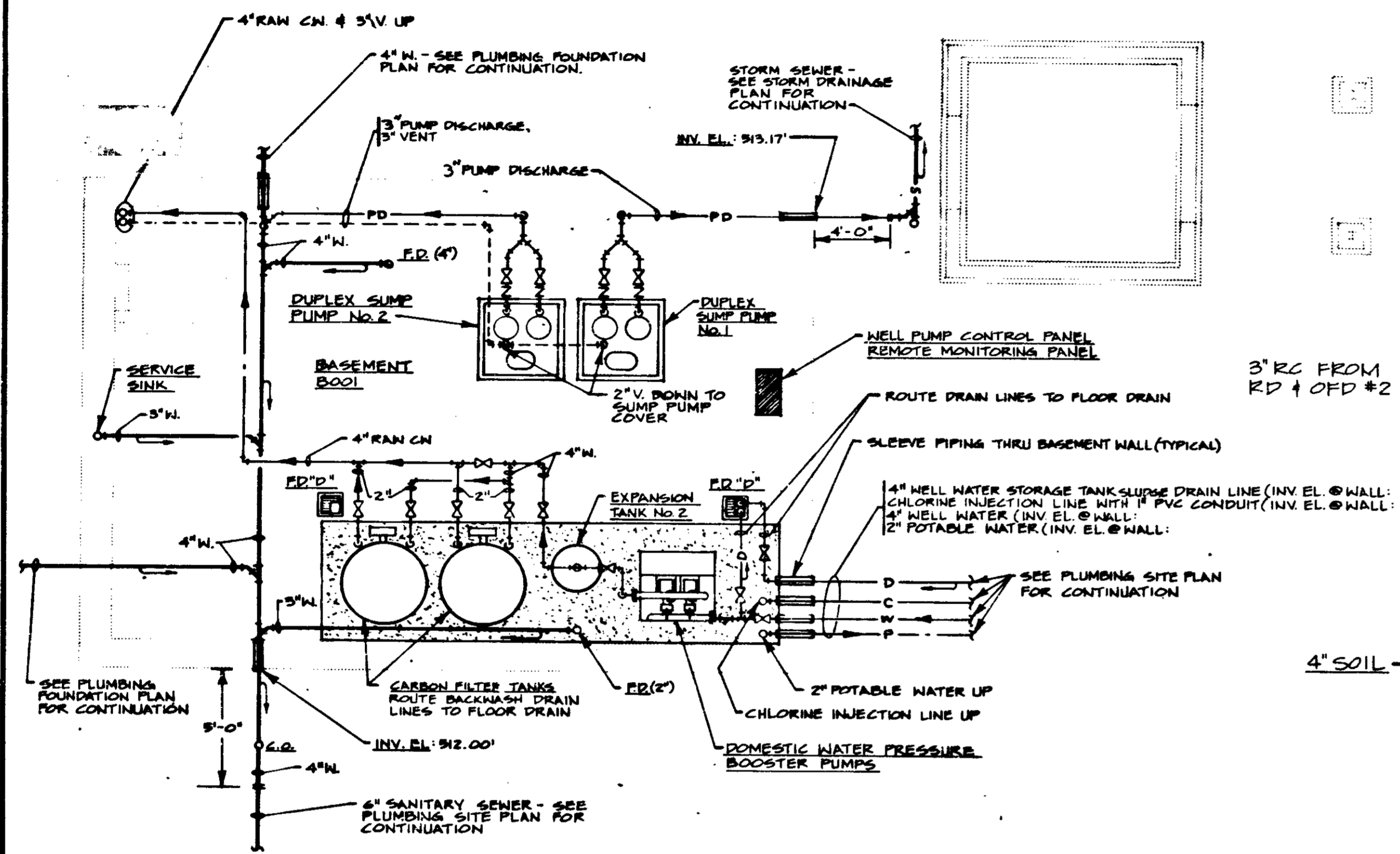
DETAILS
SITE PLAN - PLUMBING
1" = 30'-0"



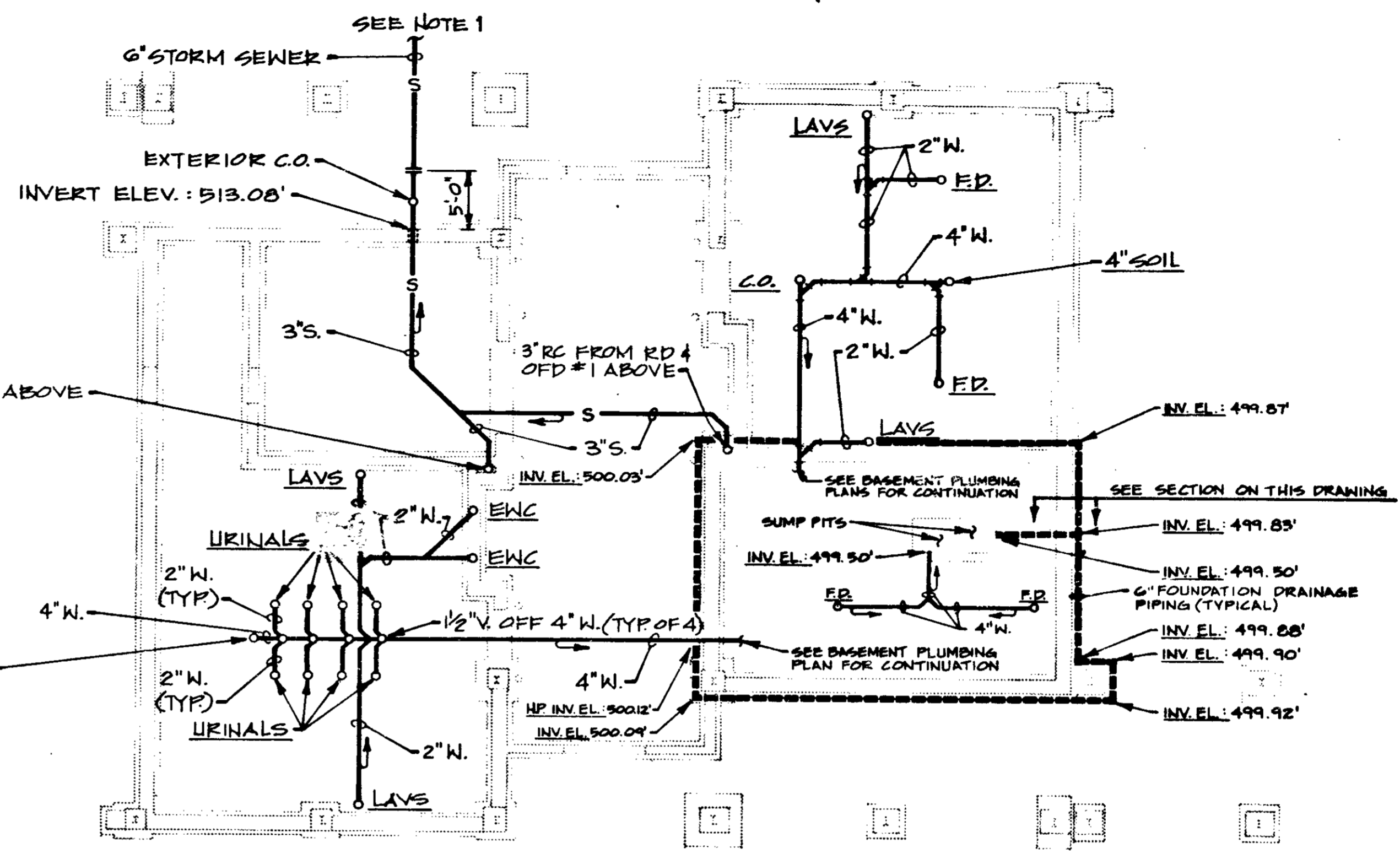
R-19057

REVISED: MAY 16, 1990

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	R-1-D-70-K00	1989	75	171
					MA02

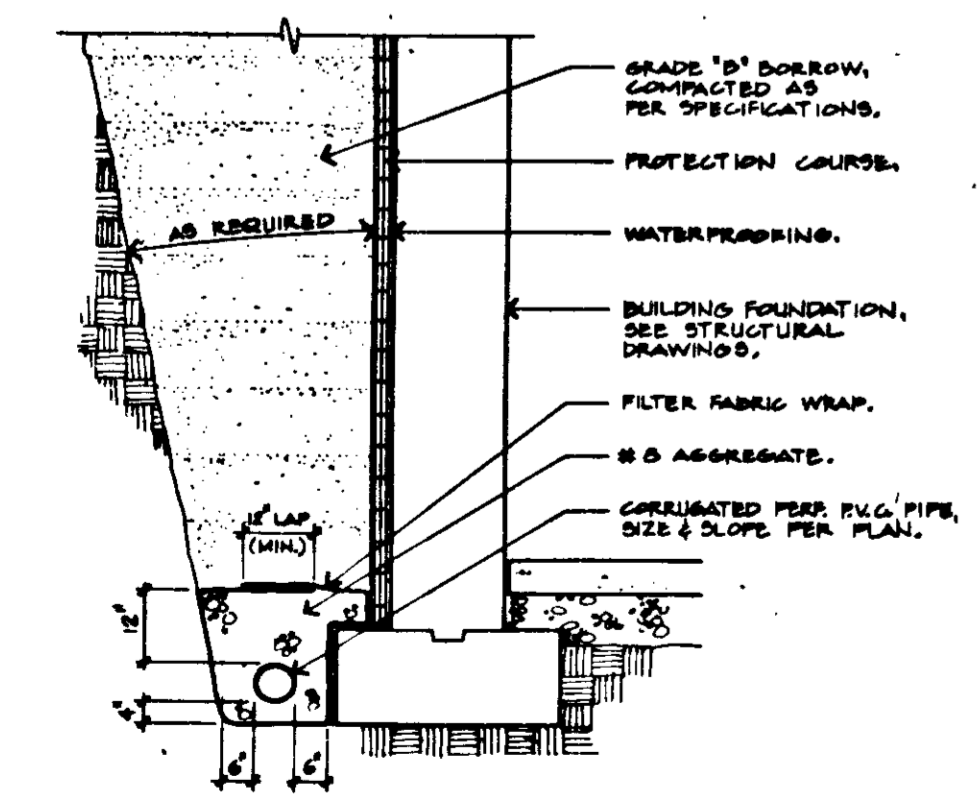


BASEMENT FLOOR PLAN - PLUMBING
 FINISH FLOOR ELEV.: 501.00 SCALE: 1/4" = 1'-0"

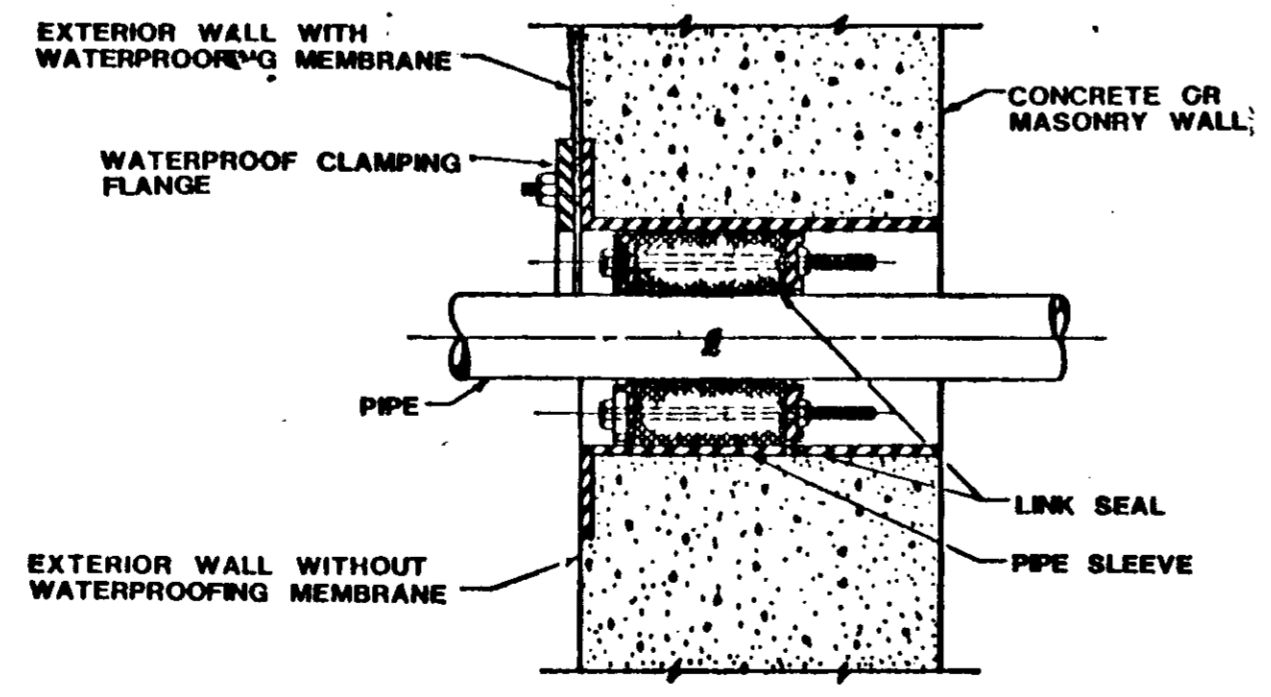


FOUNDATION PLAN - PLUMBING
 FINISH FLOOR ELEV.: 516.00' 1/8" = 1'-0"

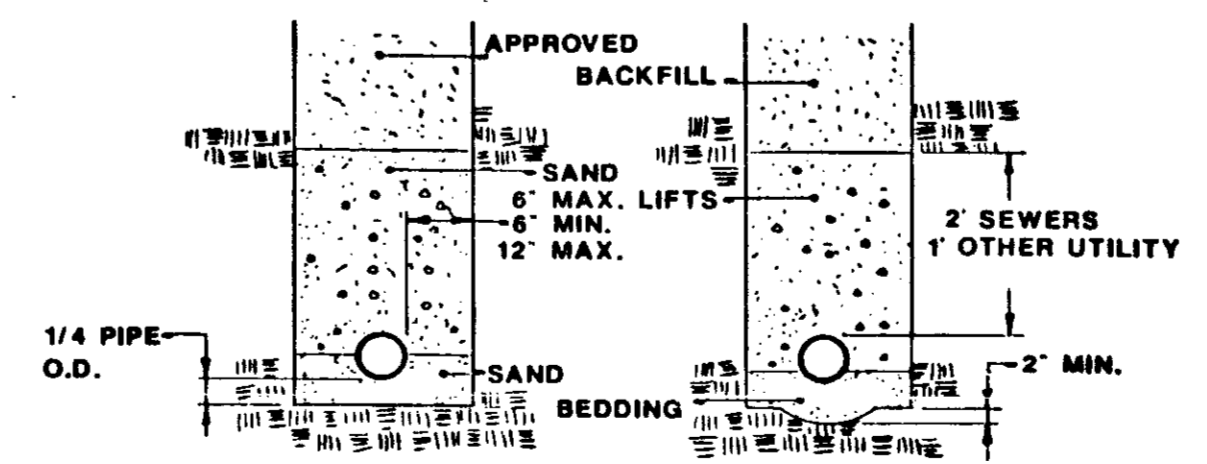
NOTE:
 1. FOR CONTINUATION SEE 'SITE PLAN - PLUMBING' (M401)



FOUNDATION DRAINAGE DETAIL
 NO SCALE



PIPE SLEEVE THRU EXTERIOR WALL OR FOUNDATION WALL (BELOW GRADE)
 NO SCALE



TRENCHING & BACKFILL DETAIL
 NO SCALE

DETAILS
 FOUNDATION PLAN - PLUMBING

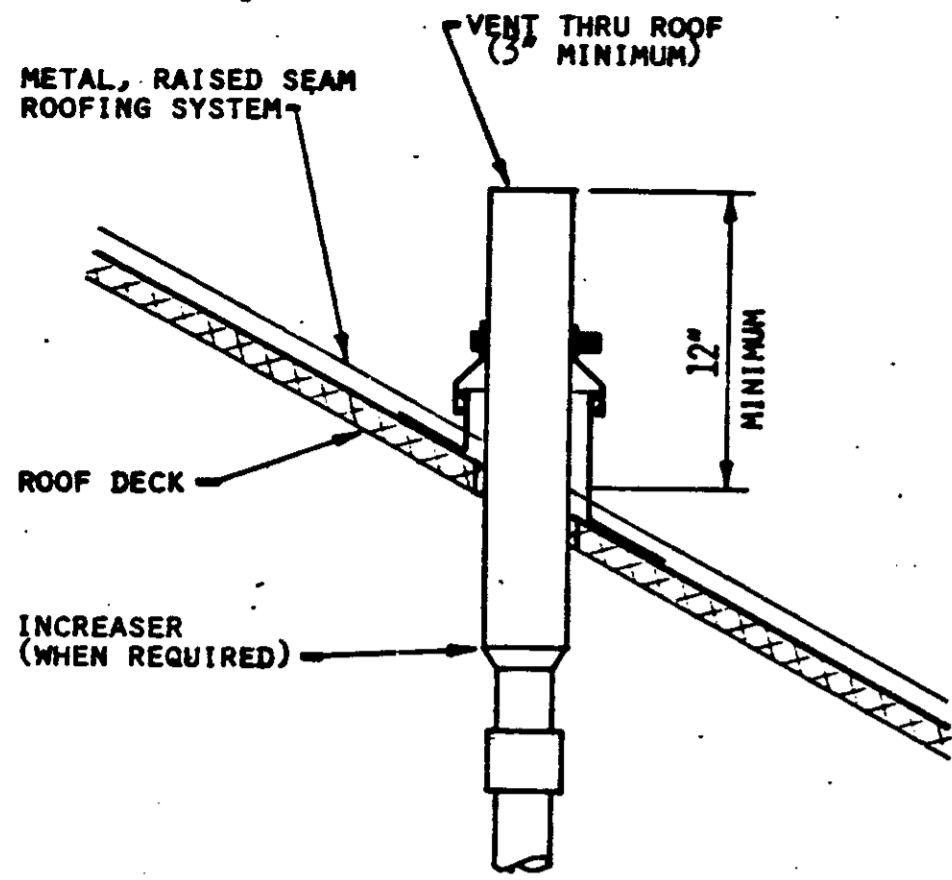
R-19057



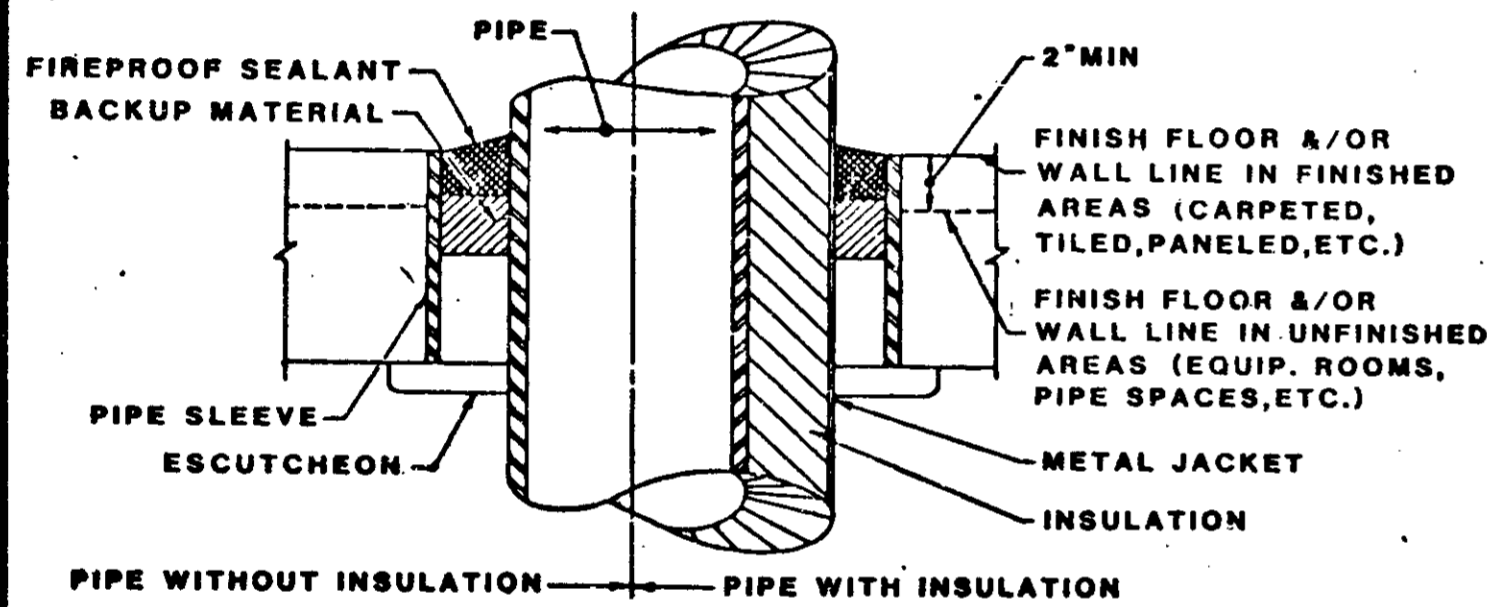
REVISED: MAY 16, 1990

1976

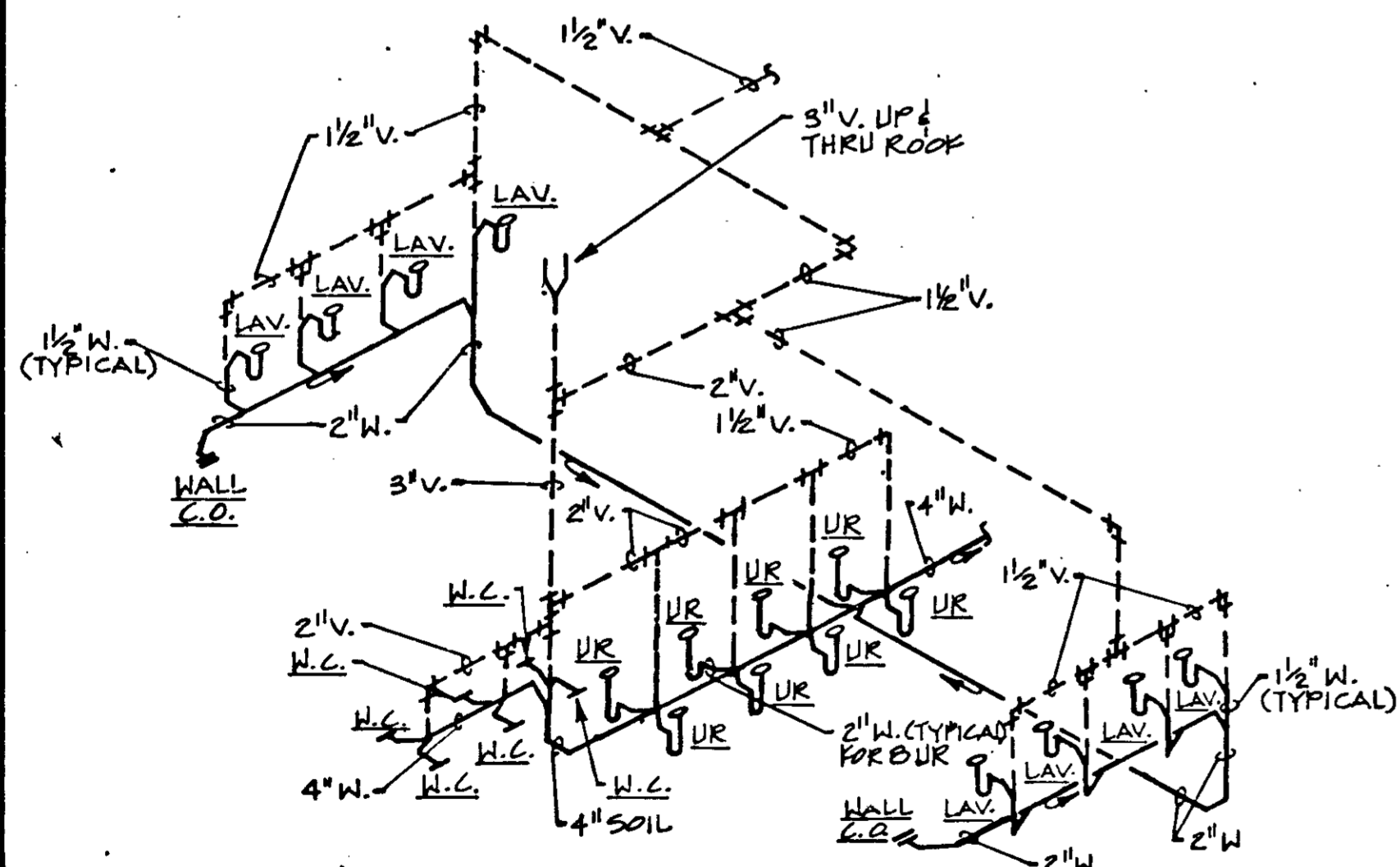
TP107



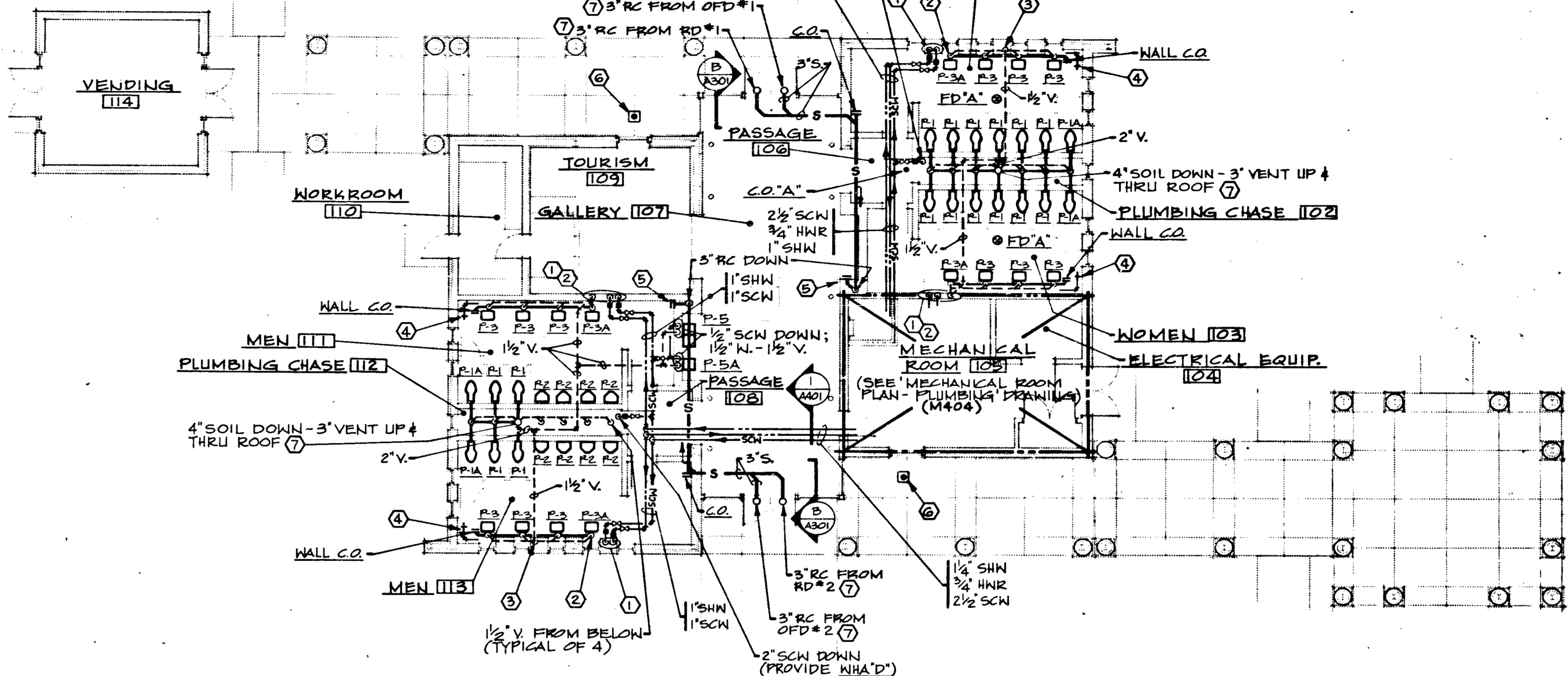
VENT THRU ROOF
NO SCALE



PIPE SLEEVE THRU FLOOR &/OR WALL
NO SCALE



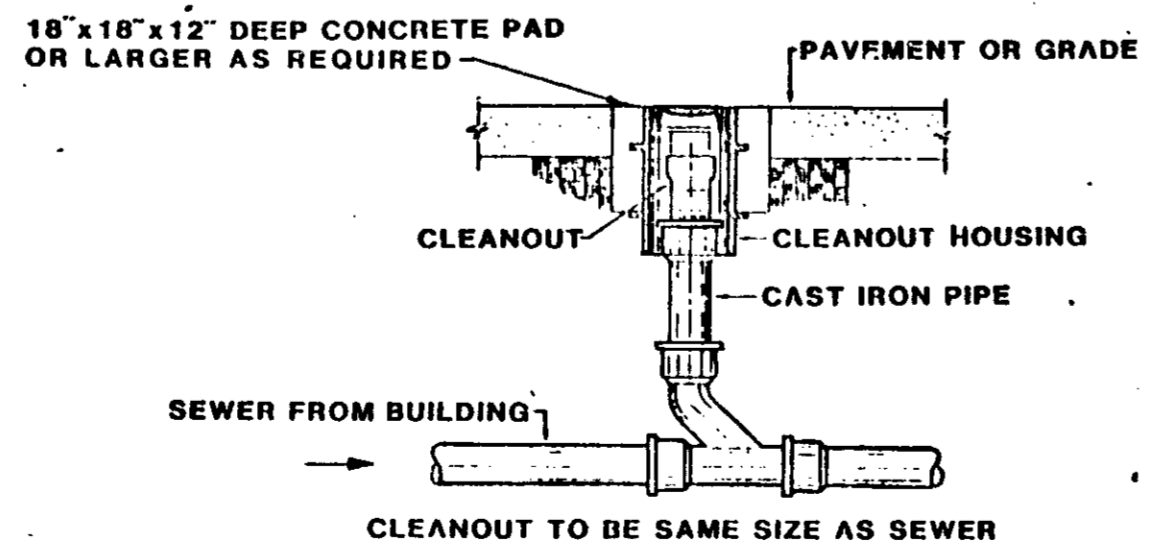
WASTE & VENT DIAGRAM FOR MEN'S TOILET ROOMS #111 & #113
NO SCALE



FLOOR PLAN - PLUMBING
FINISH FLOOR ELEV.: 516.00' 1/8"=1'-0"



- PLAN NOTES - PLUMBING
- 1" SOFT HOT & SOFT COLD WATER DOWN-EXTEND HEADERS HORIZONTALLY BEHIND LAVATORIES. PROVIDE WMA "A" ON BOTH HOT & COLD WATER PIPING.
 - 2" WASTE - 1-1/2" VENT.
 - 1-1/2" VENT UP IN CHASE.
 - 3/4" SOFT COLD WATER TO HOSE BIBB @ +24" ABOVE FINISH FLOOR.
 - PROVIDE BASE OF RISER CLEANOUT (WALL C.O.) @ +12" ABOVE FINISH FLOOR.
 - EXTERIOR CLEANOUT (SEE DETAIL ON THIS SHEET).
 - SEE 'ROOF PLAN' - SHEET NO. A201 FOR ROOF DRAIN & VENT LOCATIONS.



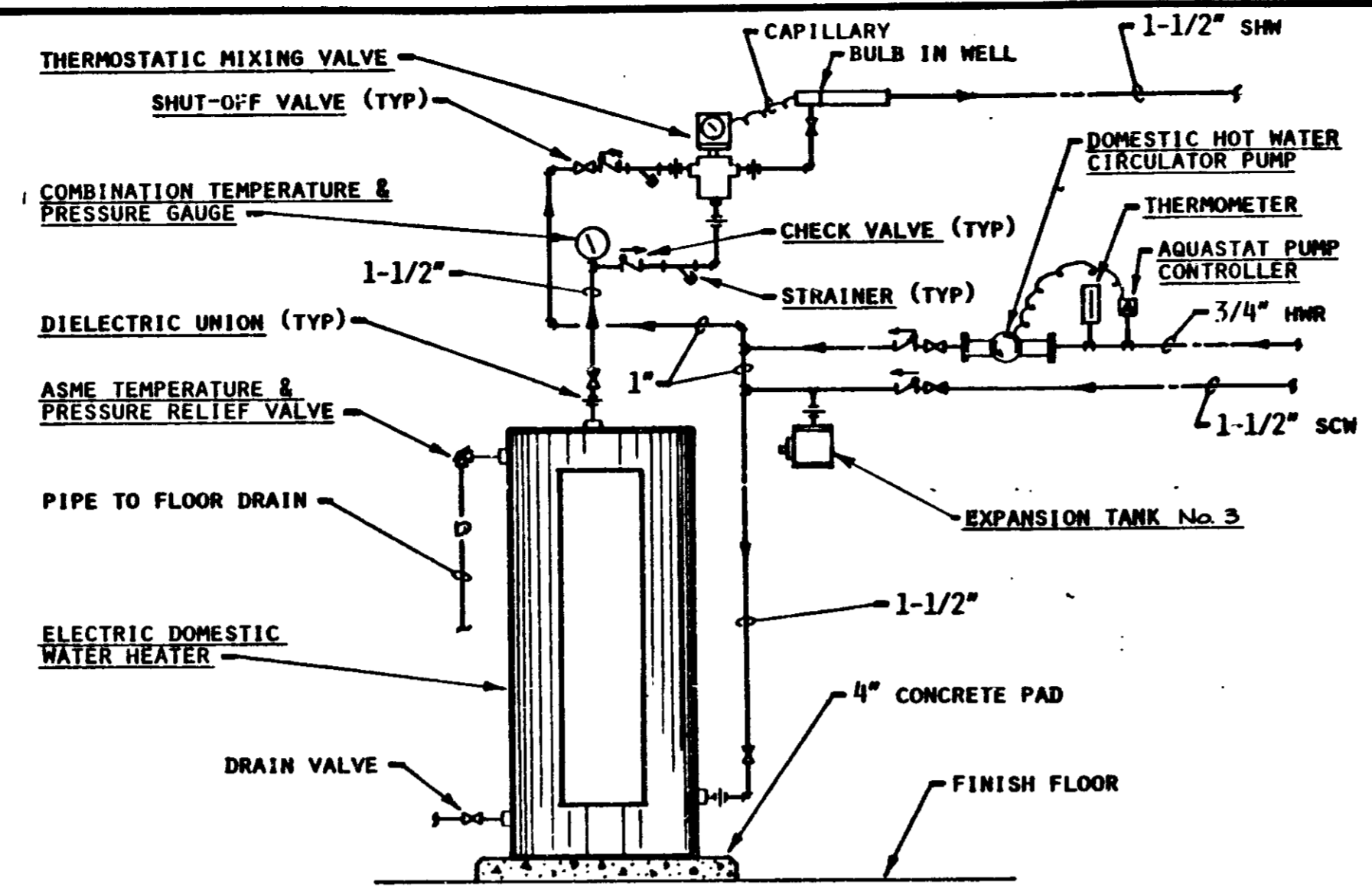
EXTERIOR CLEANOUT DETAIL
NO SCALE

DETAILS
FLOOR PLAN - PLUMBING

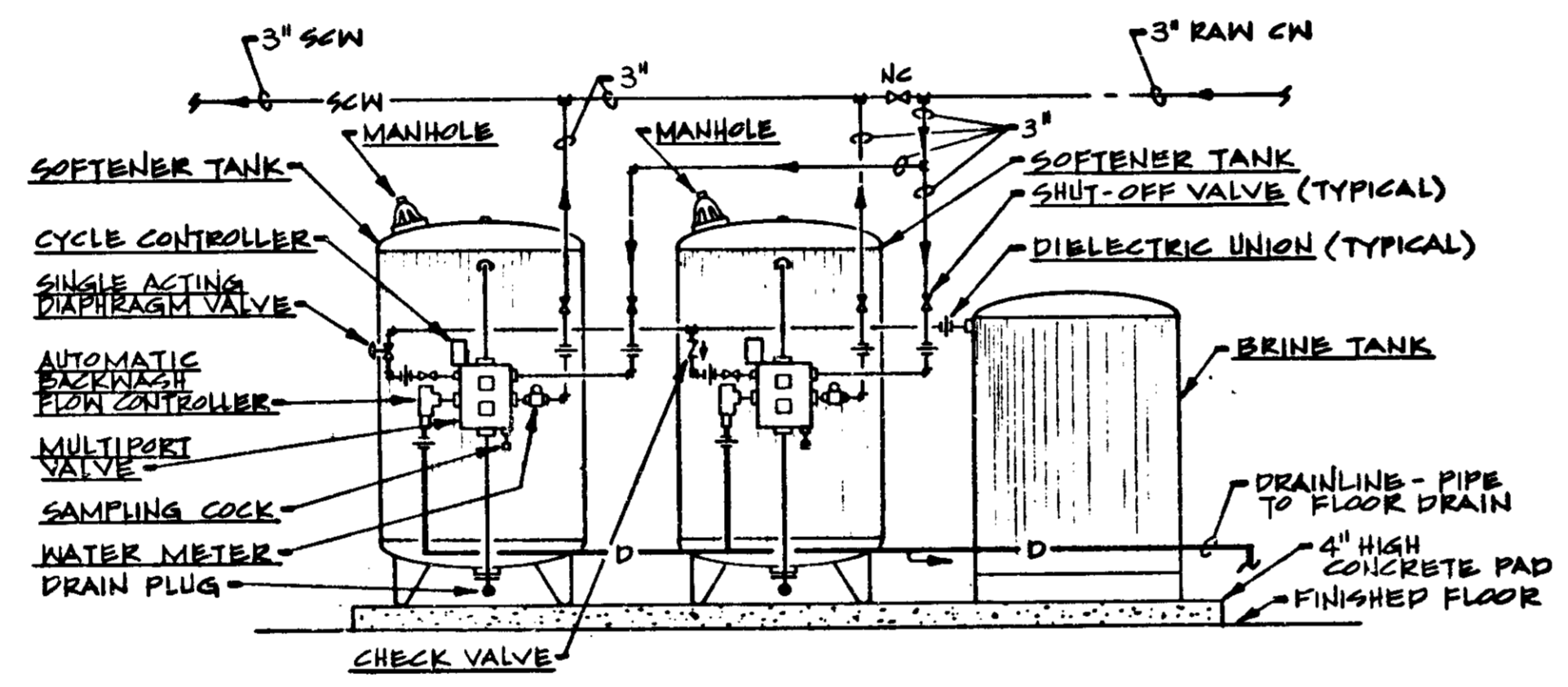
R-19057



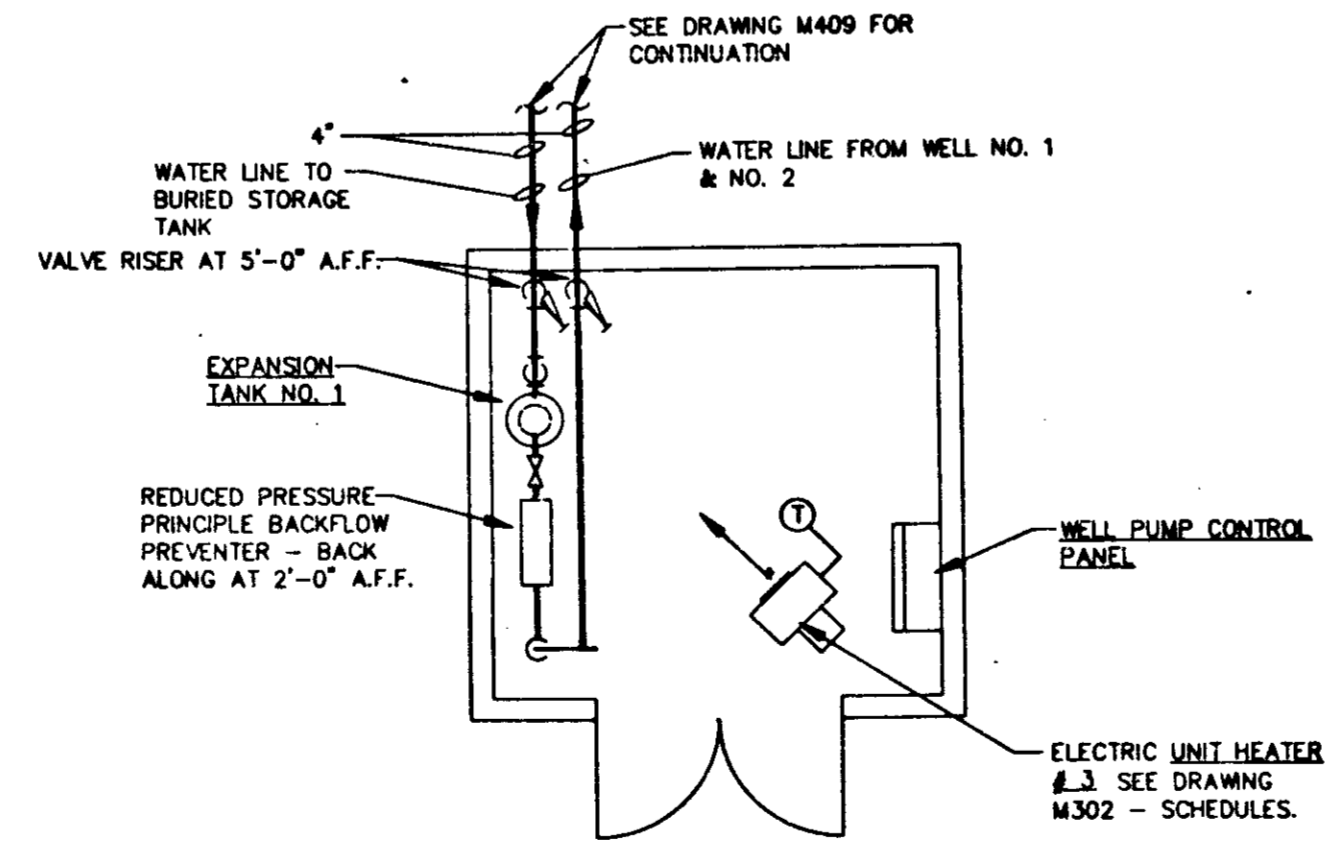
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-110-70-1610	1989	77	171



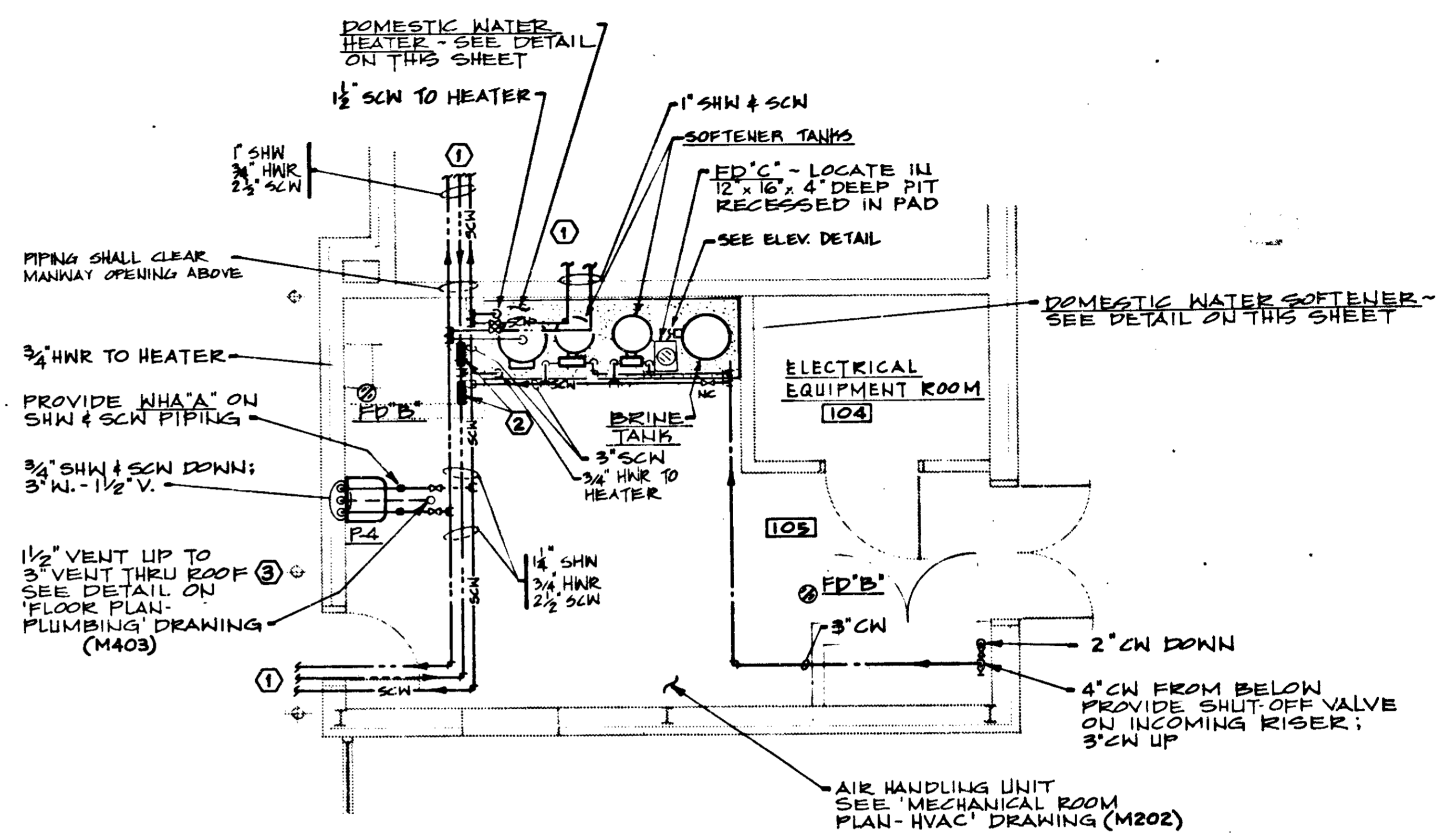
DOMESTIC WATER HEATER PIPING DIAGRAM
NO SCALE



WATER SOFTENER PIPING DIAGRAM
NO SCALE

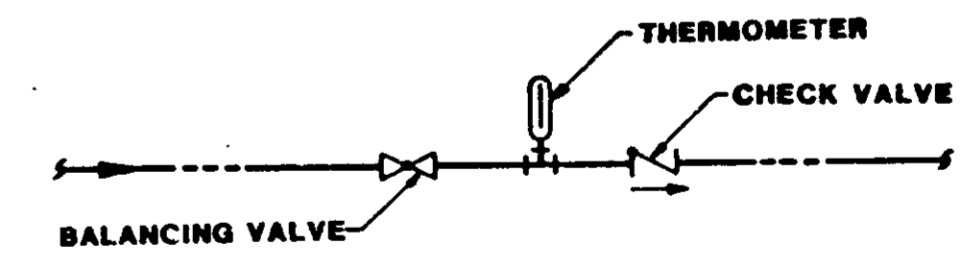


WELL SYSTEM PUMP CONTROL BUILDING
SCALE: 1/4" = 1'-0"
NORTH



MECHANICAL ROOM PLAN - PLUMBING
FINISH FLOOR ELEV.: 516.00'
1/4" = 1'-0"

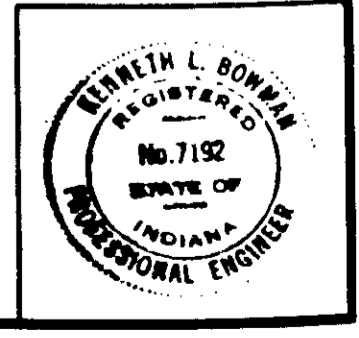
- PLAN NOTES - PLUMBING**
- FOR CONTINUATION SEE 'FLOOR PLAN - PLUMBING' DRAWING (M403)
 - HOT WATER BALANCING STATION - SEE DETAIL ON THIS SHEET
 - SEE 'ROOF PLAN' SHEET NO. A201 FOR VENT LOCATION



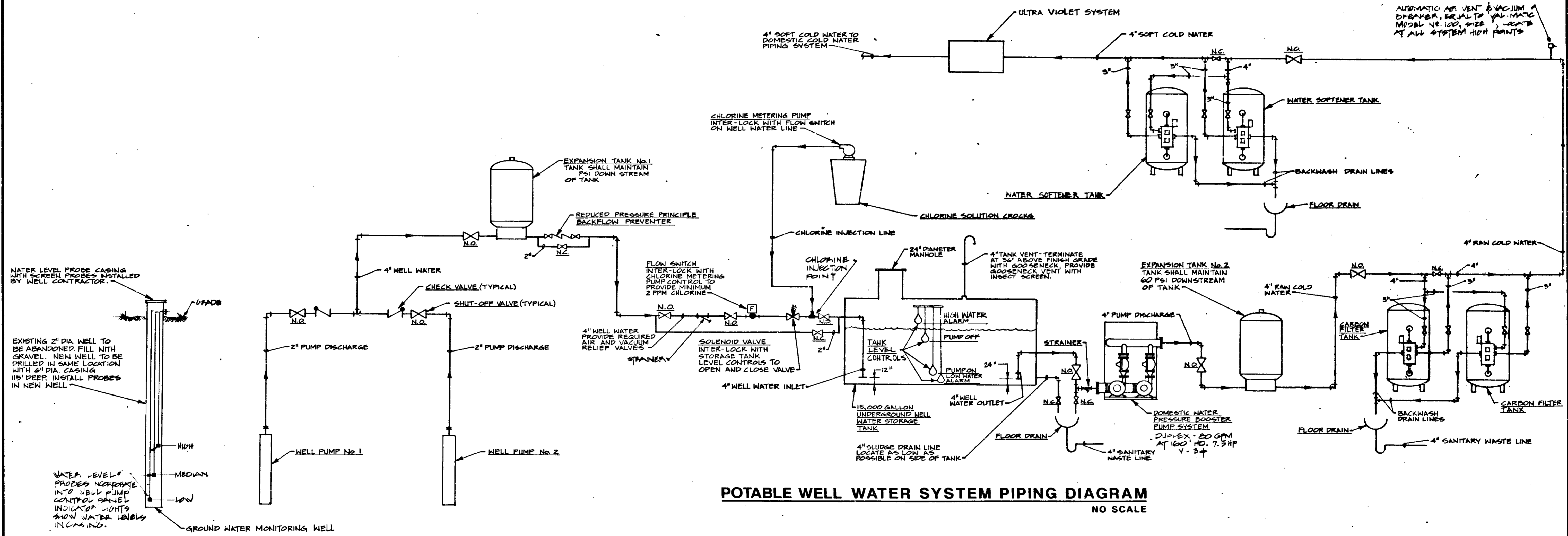
TYPICAL HOT WATER BALANCING VALVE STATION
NO SCALE

DETAILS
MECHANICAL ROOM PLAN
& DETAILS - PLUMBING

R-19057

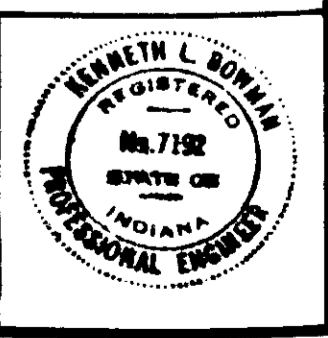


REVISED: MAY 16, 1990



DETAILS

POTABLE WATER SYSTEM
PIPING DIAGRAM
R-19057



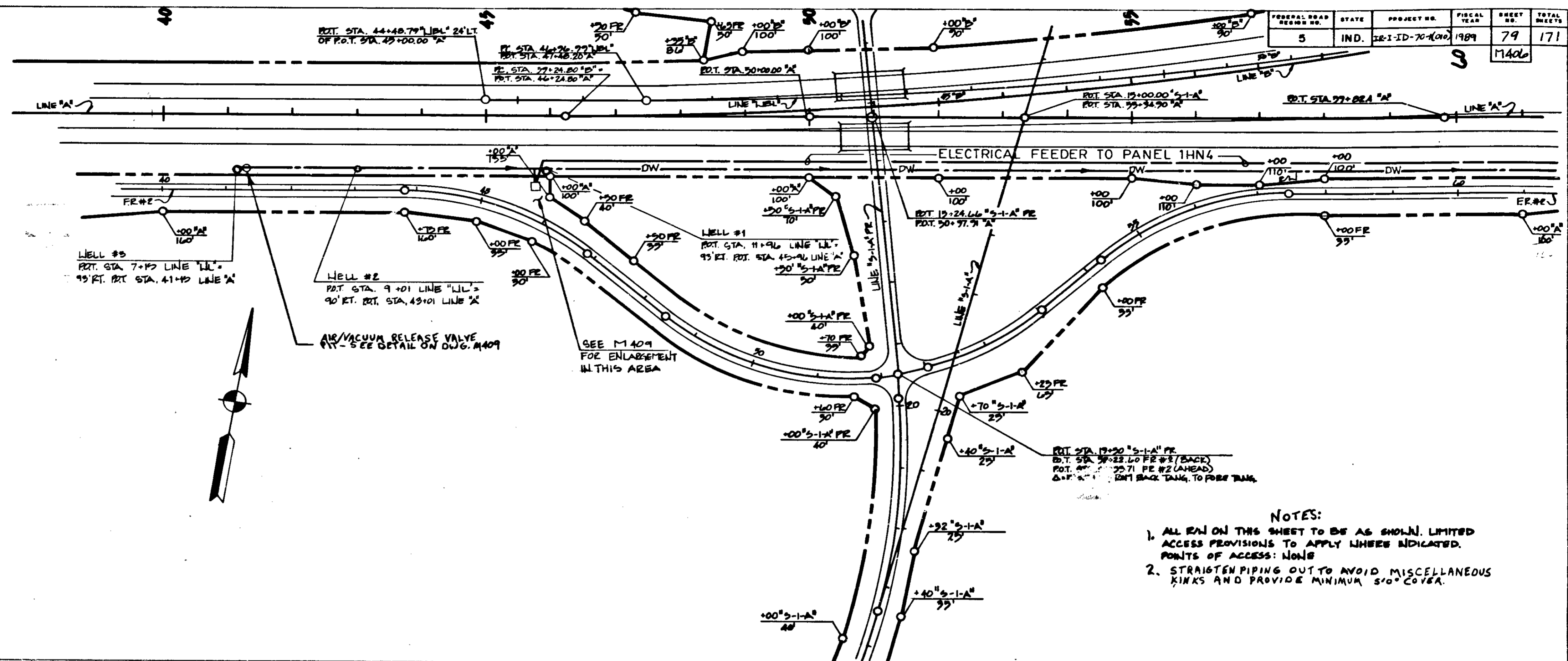
REVISED: MAY 16, 1990

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	SR-1-ID-70-M(40)	1989	79	171

PLAN

DATE	BY

NOTED
 CHECKED
 BY



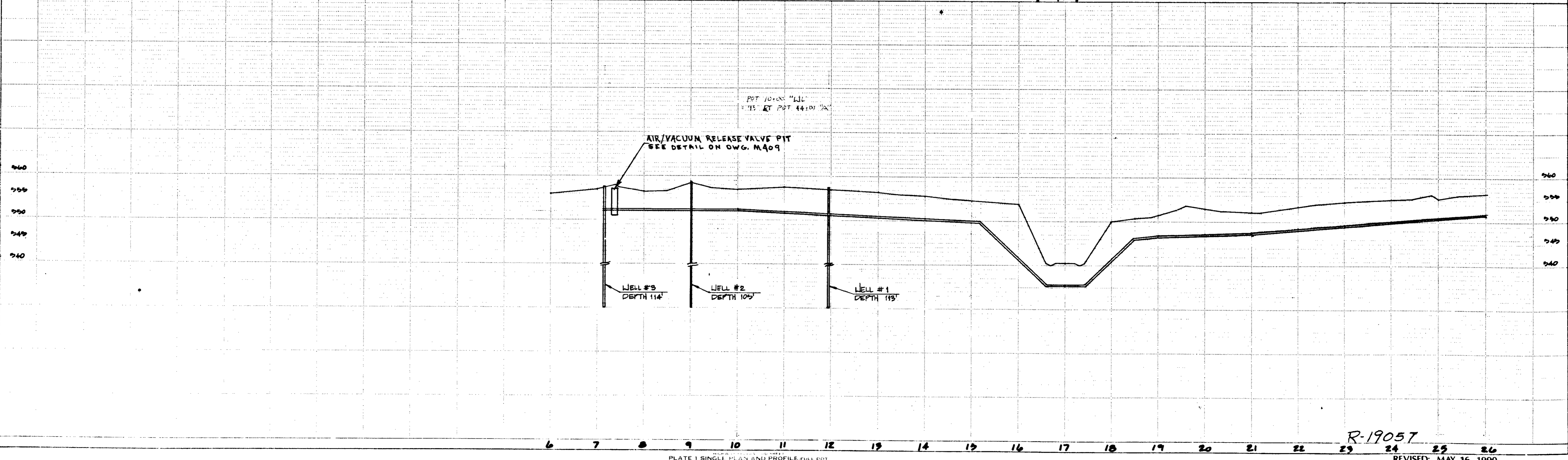
NOTES:

- ALL R/W ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. POINTS OF ACCESS: NONE
- STRAIGHTEN PIPING OUT TO AVOID MISCELLANEOUS KINKS AND PROVIDE MINIMUM 30° COVER.

PROFILE

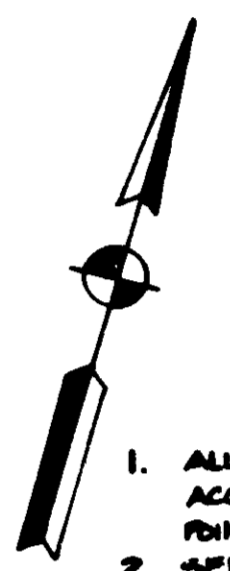
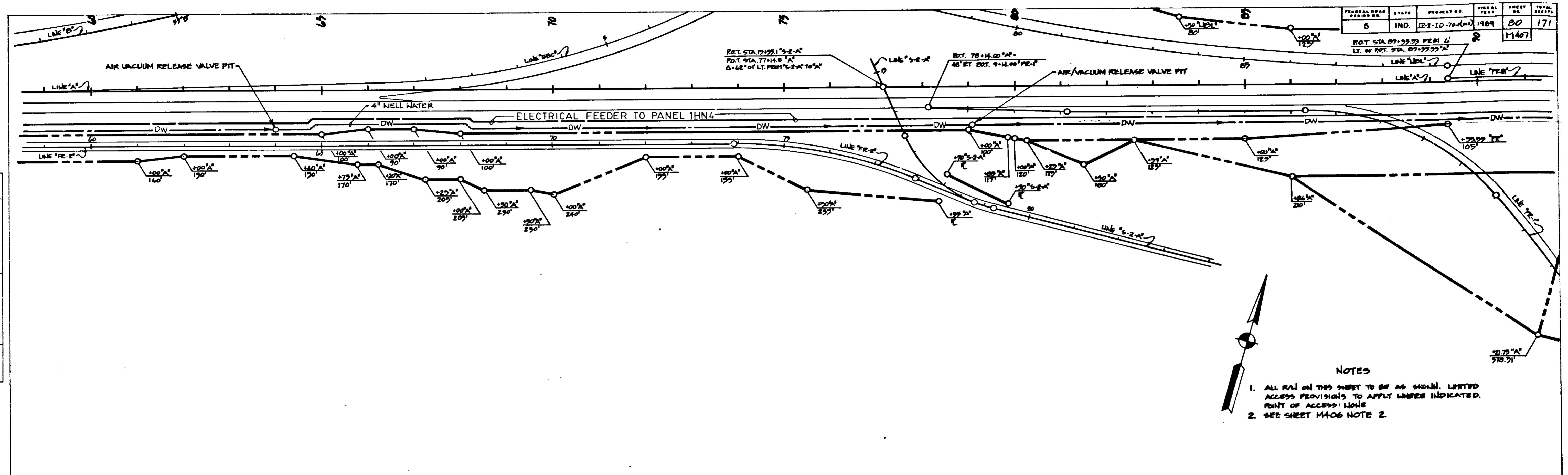
DATE	BY

NOTED
 CHECKED
 BY



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-ID-70(40)	1989	80	171

R.O.T. STA. 87+22.72 PEBL 1
 LT. OF ROT. STA. 87+22.72 1/2"



NOTES

1. ALL RAV ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY UNLESS INDICATED. POINT OF ACCESS: NONE
2. SEE SHEET M406 NOTE 2.

PLAN	DATE	BY
NO. 800		
NO.		

PROFILE	DATE	BY
NO. 800		
NO.		

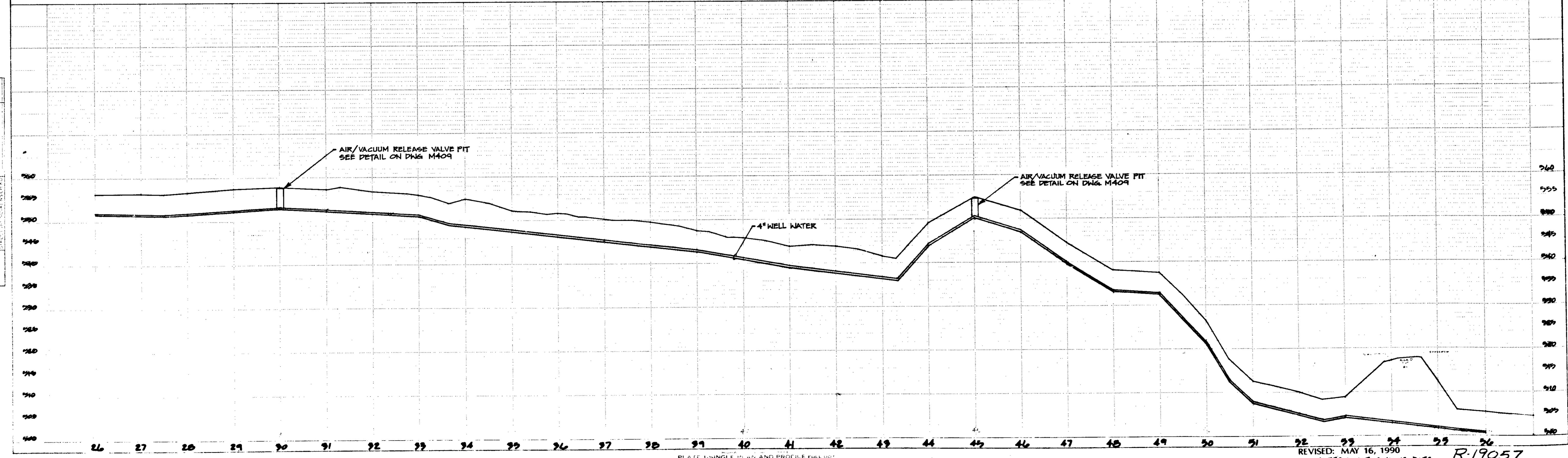
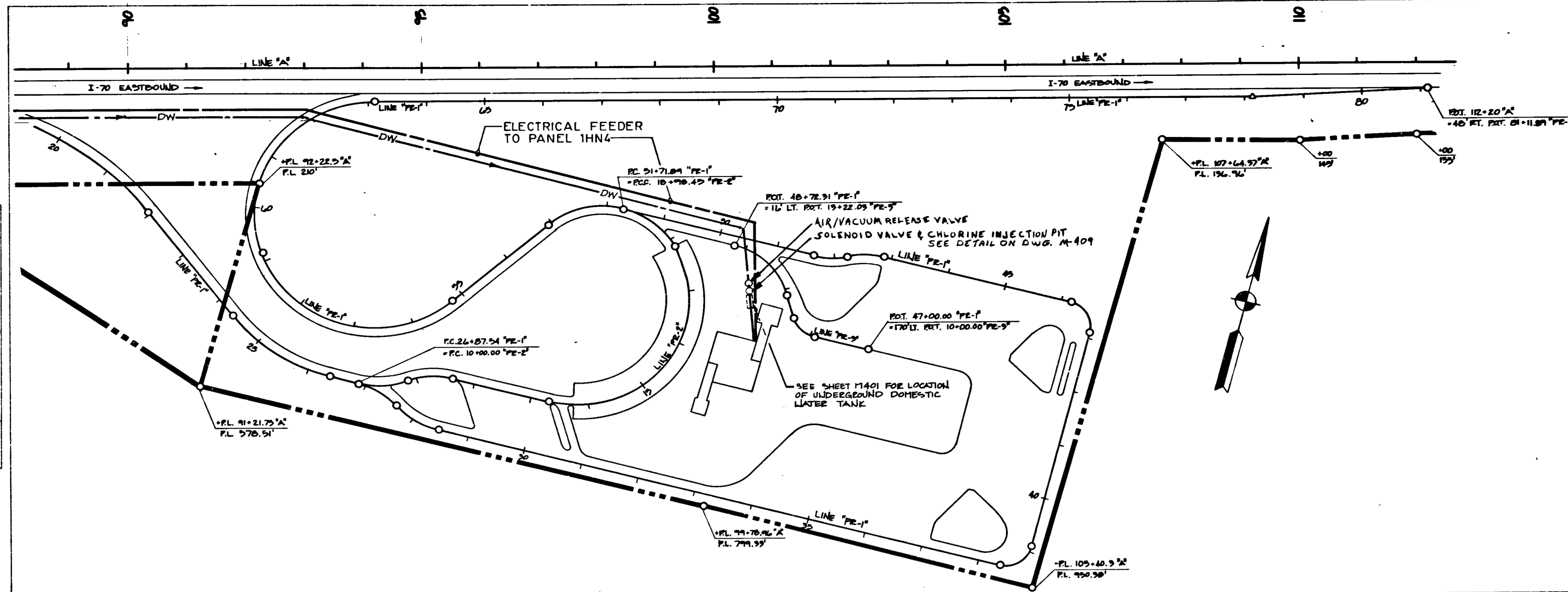


PLATE 1-SINGLE PLAN AND PROFILE FULL DOT
 TELEPHONE
 PRINTED IN U.S.A.

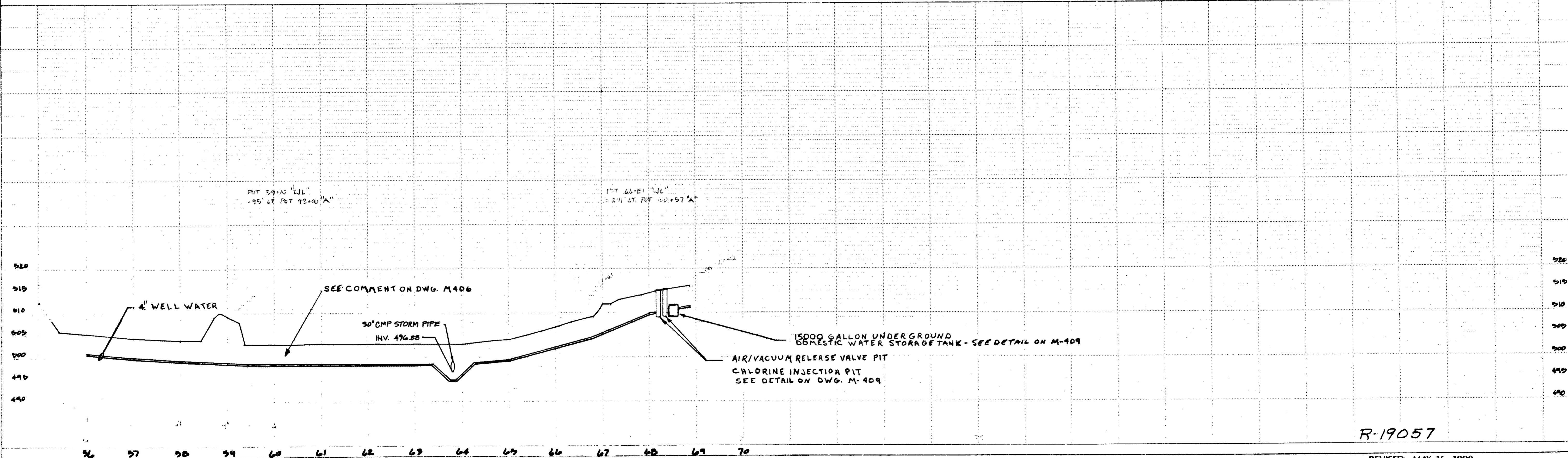
REVISED: MAY 16, 1990
 ADDED WATER LINE & VALVE PITS. R-19057

PLAN
 SURVEYED BY: _____
 CHECKED BY: _____
 DATE: _____



- NOTES:
1. ALL RAI ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY UNLESS INDICATED. POINT OF ACCESS: NONE
 2. SEE NOTE #2 M-406

PROFILE
 SURVEYED BY: _____
 CHECKED BY: _____
 DATE: _____

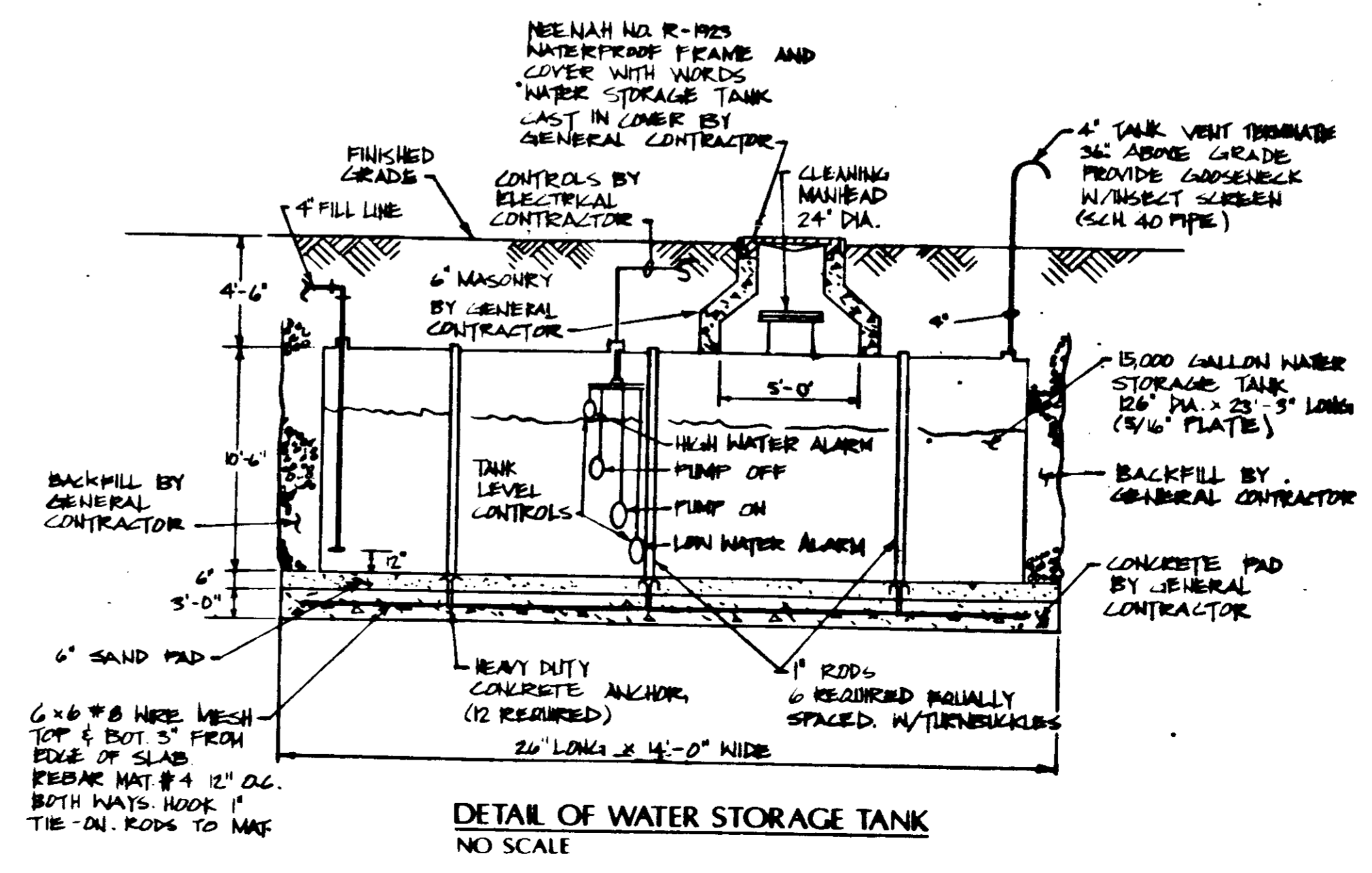
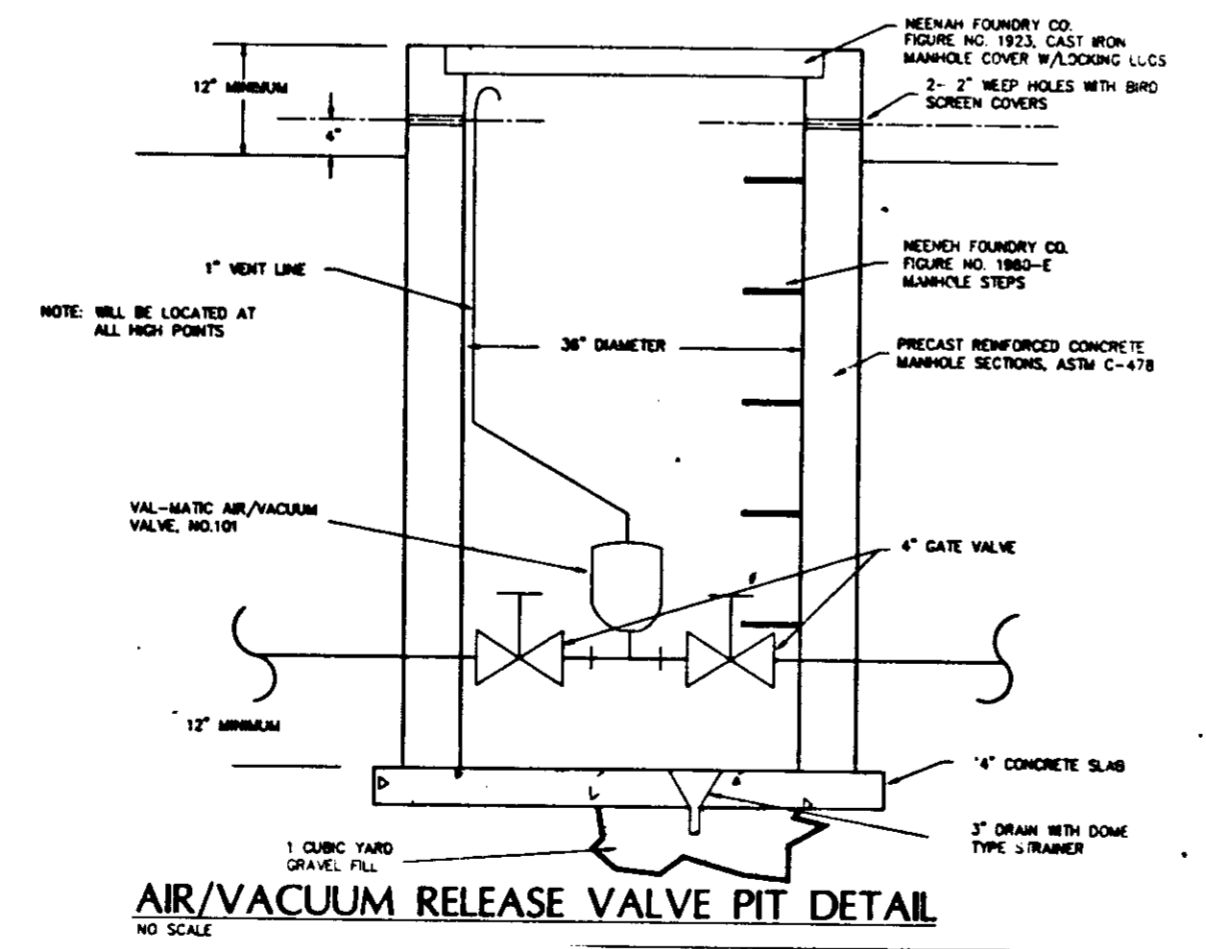
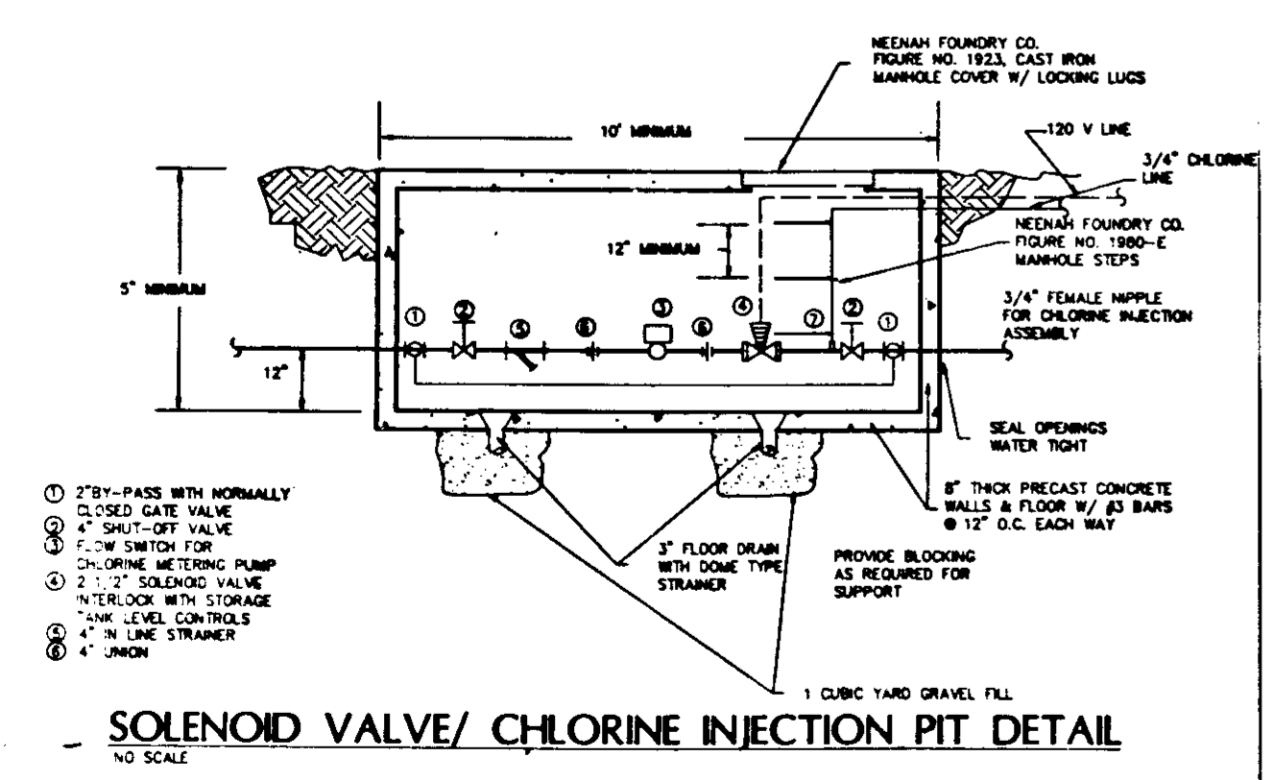
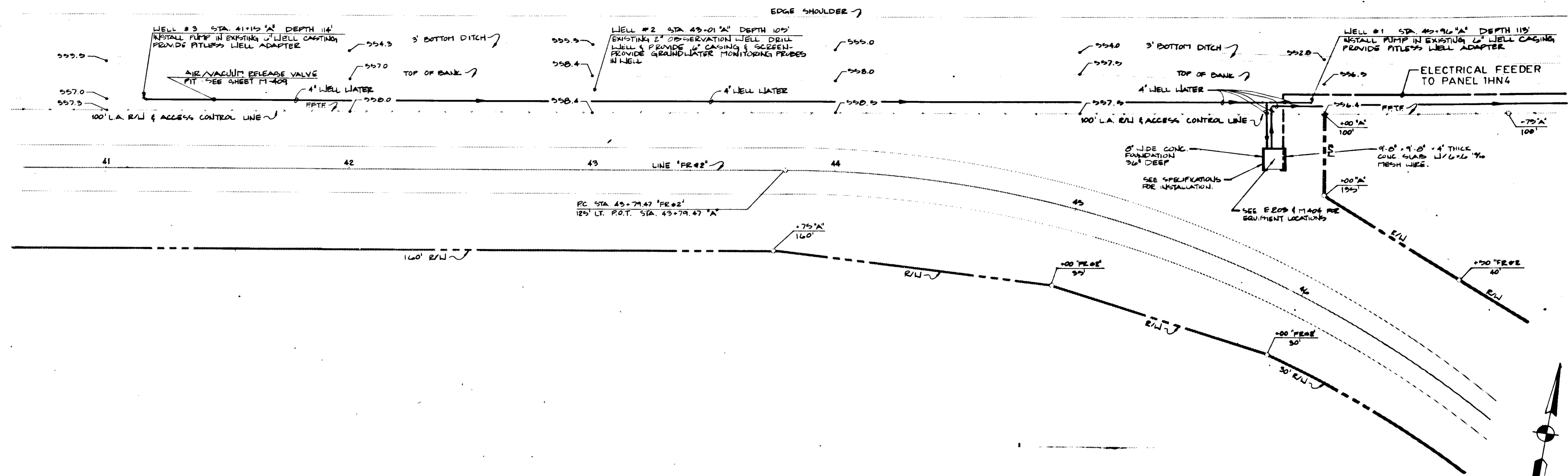


R-19057

REVISED: MAY 16, 1990

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	FE-1-10-70-604	1989	82	171

I-70 EAST BOUND LANES



DETAILS

R-19057

REVISED: MAY 16, 1990



PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT DESCRIPTION	MAKE / MODEL	CAPACITY	ELECTRICAL	REMARKS
THERMOSTATIC MIXING VALVE	POWERS FIGURE No. 595-WM-050-M-C-08-D-I-03	16 GPM @ 15 PSI PRESS. DIFF.		SET VALVE TO PROVIDE 120°F (MAX.) WATER TEMPERATURE.
DOMESTIC HOT WATER EXPANSION TANK No. 3	AMTROL FIGURE No. AST-12	MAX. ACCEPTABLE VOL. = 2 1/2 GAL. TOTAL VOLUME = 47 GAL.		ENSURE RELIEF VALVE SETTINGS ON DOMESTIC WATER HEATER DO NOT EXCEED 125 PSIG. SET AT 55 PSI
DOMESTIC WATER HEATER	A.O. SMITH FIGURE No. DSE-65	65 GAL TOTAL VOL. 50 GPM RECOVERY @ 120°F RISE	480V/3φ (12 KW)	ENSURE WATER TEMPERATURE DOES NOT EXCEED 140°F.
DOMESTIC HOT WATER CIRCULATING PUMP	GRUNDFOS FIGURE No. UP 25-64 SF	5 GPM @ 17' TDH	(1/2 HP) 120V/1φ	PROVIDE AGHASTAT PUMP CONTROLLER & BRONZE FLANGE SET.
DOMESTIC DUPLEX WATER SOFTENER	BRUNER FIGURE No. HBR 150-1 1/2 (TWIN-PARALLEL)	COUNT FLOW = 75 GPM PEAK FLOW = 102 GPM MAX. GR. = 150,000 MIN. GR. = 100,000	120V/1φ	AUTOMATIC WATER METER REGENERATION. PROVIDE WATER TEST KIT WITH SOFTENER.
AIR/VACUUM RELEASE VALVE	VAL-MATK 1" #100	LOCATED AT ALL HIGH POINTS IN WELL LINE.	N.A.	PROVIDE ISOLATION SHUT-OFF VALVES UPSTREAM & DOWNSTREAM OF VALVE.
DUPLEX SUMP PUMP No. 1 (STORM)	WEIL FIGURE No. 2-141314-1/2 HP 1750 RPM	EACH 70 GPM @ 20 FT. HD. NON-OVER LOADING	120V/160 (1/4 HP EACH)	PROVIDE PUMPS WITH ALTERNATOR, FLOAT SWITCHES, COVER & HIGH WATER ALARM
DUPLEX SUMP PUMP No. 2 (SANITARY)	WEIL FIGURE No. 2-240414-3/4 HP 2" SPHERE SIZE 1750 RPM	EACH 90 GPM @ 20 FT. HD. NON-OVER LOADING	120V/160 (3/4 HP EACH)	PROVIDE PUMPS WITH ALTERNATOR, FLOAT SWITCHES, COVER & HIGH WATER ALARM
CARBON FILTER TANKS (2 REQUIRED)	BRUNER MODEL No. AC42HF-4"	FLOW RATE 55 GPM PRESS. LOSS 3 PSI BACKWASH RATE 95 GPM	120V/1φ/60 6 WATTS	ASME CONSTRUCTION TANKS, TANK SIZE 42" DIA. X 60"
EXPANSION TANKS Nos. 1 & 2	AMTROL FIGURE No. AST 210	MAX ACCEPTABLE VOL. = 2 1/2 GAL. TOTAL VOL. = 80 GAL.	N.A.	ASME CONSTRUCTION TANKS 1 @ WELL, 1 @ BOOSTER ADJUSTABLE PUMPS, BOOSTER-72 TO 65, WELL-60 TO 40
DOMESTIC WATER PRESSURE BOOSTER PUMPS	PEERLESS FIGURE No. C810AM-BF	EACH 60 GPM @ 166 FT TDH	480V/3φ 7 1/2 HP EACH 5500 RPM	PACKAGED BOOSTER PUMP SYSTEM WITH CONTROL PANEL
CHLORINE METERING PUMP	LMI No. B11	40 GPD @ 75 P.S.I.	120V/1φ	PROVIDE FLOW SWITCH, INJECTION NOZZLE, CHLORINE TUBING & 50 GALLON CHLORINE CROCK
WELL PUMP CONTROL & MONITORING PANEL	PEERLESS FIGURE No. FTA 620 L	N.A.	480V/3/60	PANEL TO ALTERNATE WELL PUMPS. MONITOR WATER LEVELS IN GROUND WATER MONITORING WELL
WELL PUMP REMOTE MONITORING PANEL	PEERLESS MONITORING PORTION OF FIGURE No. FTA 620 L	N.A.		PANEL TO MONITOR ALL OPERATIONS OF WELL PUMP CONTROL PANEL. WELL WATER STORAGE TANK FLOAT SWITCHES. PANELS ALSO TO ACTUATE BUILDING ALARM SYSTEM WITH TROUBLE SIGNAL FROM WELL PUMP CONTROL PANEL OR WELL WATER STORAGE TANK FLOAT SWITCHES
WELL PUMPS No. 1 & 2	RED JACKET MODEL No. 756-S-6MB6 6 STAGE 480V/3/60	60 GPM @ 510 FT HD, 62% EFF. 82 GPM @ 260 FT HD, 62% EFF. 106 GPM @ 160 FT HD, 50% EFF.	480V/3φ (7 1/2 HP)	INSTALL PUMPS IN EXISTING WELL CASINGS
SOLENOID VALVE	SINGER CONTROL VALVE #1065C-2 1/2" WITH SLOW OPENING & CLOSING FEATURE-10 SEC MIN. EPDM COATED	1" DP @ 120 GPM	120V/1φ	SOLENOID VALVE TO BE ACTUATED BY FLOAT SWITCHES LOCATED IN WELL WATER STORAGE TANK
MONITORING WELL WATER LEVEL PROBES	WARRICK # 3Y1	N.A.	120V/1φ	PROBES TO SEND SIGNALS TO WELL PUMP CONTROL PANEL INDICATING MONITORING WELL WATER LEVELS
WELL WATER STORAGE TANK FLOAT SWITCHES	ANCHOR SCIENTIFIC TYPES	1/4"	120V/1/60	FLOAT SWITCHES TO OPERATE SOLENOID VALVE & INDICATE HIGH & LOW WATER LEVELS IN TANK
15,000 GALLON WELL WATER STORAGE TANK	KENNEDY TANK STI P3	15,000 GALLONS	N.A.	PROVIDE TANK INTERIOR WITH FDA COATING SYSTEM. PROVIDE TEST LEADS FROM TANK ANODES TO MONITOR TANK CATHODIC PROTECTION SYSTEM. PROVIDE TANK OPENINGS AS DETAILED.
ULTRA-VIOLET FILTER SYSTEM	TROJAN TECHNOLOGIES, INC. MODEL No. UV2060K-PTP	120 GPM	120V/1φ/60	SYSTEM TO PROVIDE WATER FREE OF ANY BIOLOGICAL IMPURITIES
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR	WATTS FIGURE No. 909-S	60 GPM @ 15 MAX P.S.I. DROP	N.A.	PROVIDE WITH AIR GAP DRAIN ASSEMBLY & STRAINER
WELL PUMP PITLESS ADAPTERS	WHITWATER MODEL No. 701010 KET ADAPTER TYPE No. 1060 SUB 6	FOR 4" WELL	N.A.	SEE SPECIFICATIONS

ROOF DRAIN SCHEDULE

NUMBERS ARE OF JAY R. SMITH

DRAIN NUMBERS	SIZE	DESCRIPTION
ROOF DRAINS *1 & 2	3"	#1025-C-R-Y CAST IRON BODY AND COMBINED FLASHING CLAMP/GRAVEL STOP W/CAST IRON DOME, UNDERDECK CLAMP, SUMP RECEIVER, & NO HUB OUTLET.
OVERFLOW ROOF DRAINS *1 & 2	3"	#1025-C-R-Y CAST IRON BODY AND COMBINED FLASHING CLAMP/GRAVEL STOP W/CAST IRON DOME, UNDERDECK CLAMP, SUMP RECEIVER, & NO HUB OUTLET. MODIFY WITH A 2" HIGH WATER DAM COLLAR.

FLOOR DRAIN SCHEDULE

NUMBERS ARE OF JAY R. SMITH

TYPE	DRAIN	TRAP	CLEANOUT	DESCRIPTION
FD "A"	#2041-A-HP-SC-U	INTEGRAL	INTEGRAL	CAST IRON BODY & FLASHING COLLAR, HIGH POLISHED NICKEL BRONZE ADJUSTABLE ROUND STRAINER HEAD W/SECURED SQUARE HOLE GRATE & PROVIDED W/INTEGRAL HIGH POLISHED NICKEL BRONZE CLEANOUT PLUG W/PLUG SLOT COVER & VANDAL-PROOF SCREWS.
FD "B"	#2041-A-B	INTEGRAL	INTEGRAL	CAST IRON BODY & FLASHING COLLAR, NICKEL BRONZE ADJUSTABLE ROUND STRAINER HEAD W/SECURED SQUARE HOLE GRATE & SEDIMENT BUCKET & PROVIDED W/INTEGRAL NICKEL BRONZE CLEANOUT PLUG.
FD "C"	#2041-G-B	INTEGRAL	INTEGRAL	CAST IRON BODY & FLASHING COLLAR, NICKEL BRONZE LOW DOME STRAINER HEAD & SEDIMENT BUCKET & PROVIDED W/INTEGRAL NICKEL BRONZE CLEANOUT PLUG.
FD "D"	#2041-G-B	INTEGRAL	INTEGRAL	CAST IRON BODY & FLASHING COLLAR, NICKEL BRONZE LOW DOME STRAINER HEAD & SEDIMENT BUCKET & PROVIDED W/INTEGRAL NICKEL BRONZE CLEANOUT PLUG.

CLEANOUT SCHEDULE

NUMBERS ARE OF JAY R. SMITH

TYPE	CLEANOUT	DESCRIPTION
C.O. "A"	#4021-HP-U	CAST IRON CLEANOUT W/ROUND ADJUSTABLE SECURED HIGH-POLISHED NICKEL BRONZE TOP W/A GASKET SEAL, BRONZE PLUG, & VANDAL-PROOF SCREWS.
WALL C.O.	#4402-U	CAST IRON CAULK FERRULE W/LEAD SEAL PLUG W/STAINLESS STEEL COVER & VANDAL-PROOF SCREWS.
EXTERIOR C.O.	#4251-U	CAST IRON CLEANOUT & DOUBLE FLANGED HOUSING W/HEAVY DUTY SECURED NICKEL BRONZE COVER W/LIFTING DEVICE, GASKET SEAL, BRONZE PLUG, & VANDAL-PROOF SCREWS.

HAMMER ARRESTER SCHEDULE

TYPE	J.R. SMITH	I.P.S.	F.U. RATING	REMARKS	
A	5005	3/4"	1	11	P.D.I. CERTIFIED
D	5030	1"	61	113	"
E	5040	1"	114	154	"

NUMBERS ARE OF JAY R. SMITH

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	W.	V.	CW	HW	MOUNTING HEIGHT
P-1	WATER CLOSET (WALL HUNG)	4"	2"	1"		15" TO RIM
P-1A	WATER CLOSET (WALL HUNG-HAND)	4"	2"	1"		18" TO RIM
P-2	URINAL (STALL)	2"	1 1/2"	3/4"		
P-3	LAV. (WALL HUNG)	1 1/2"	1 1/2"	1/2"	1/2"	31" TO RIM
P-3A	LAV. (WALL HUNG-HANDICAP)	1 1/2"	1 1/2"	1/2"	1/2"	34" TO RIM
P-4	SERVICE SINK (WALL HUNG)	3"	1 1/2"	3/4"	3/4"	
P-5	ELECTRIC WATER COOLER (WALL HUNG)	1 1/2"	1 1/2"	1/2"		40" TO RIM (ADULT)
P-5A	ELECTRIC WATER COOLER (HAND)	1 1/2"	1 1/2"	1/2"		34" TO RIM

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	12-1-D-70-(100)	1989	89	171

M501

SYMBOL LEGEND

ITEM	SYMBOL	ABBRV.
EXTERIOR		
WELL WATER		W
SANITARY SEWER		S
STORM SEWER		
SANITARY MANHOLE		
SANITARY FORCE-MAIN		FM
DOMESTIC WATER (POTABLE)		WP
EXTERIOR CLEANOUT		
YARD HYDRANT		Y.H.
DRINKING FOUNTAIN		D.F.
INTERIOR		
DOMESTIC RAW COLD WATER		CW
DOMESTIC SOFT COLD WATER		SCW
DOMESTIC SOFT HOT WATER		SHW
DOMESTIC HOT WATER RETURN		HW R
SANITARY WASTE		W.
STORM		S.
VENT		V.
SHUT-OFF VALVE		
WATER HAMMER ARRESTER		WHA
CHECK VALVE		
HOSE BIBB		
DIELECTRIC UNION		
FLOW IN DIRECTION OF ARROW		
SLOPE IN DIRECTION OF ARROW		
FLOOR DRAIN		F.D.
FLOOR CLEANOUT		C.O.
WALL CLEANOUT		

GENERAL NOTES

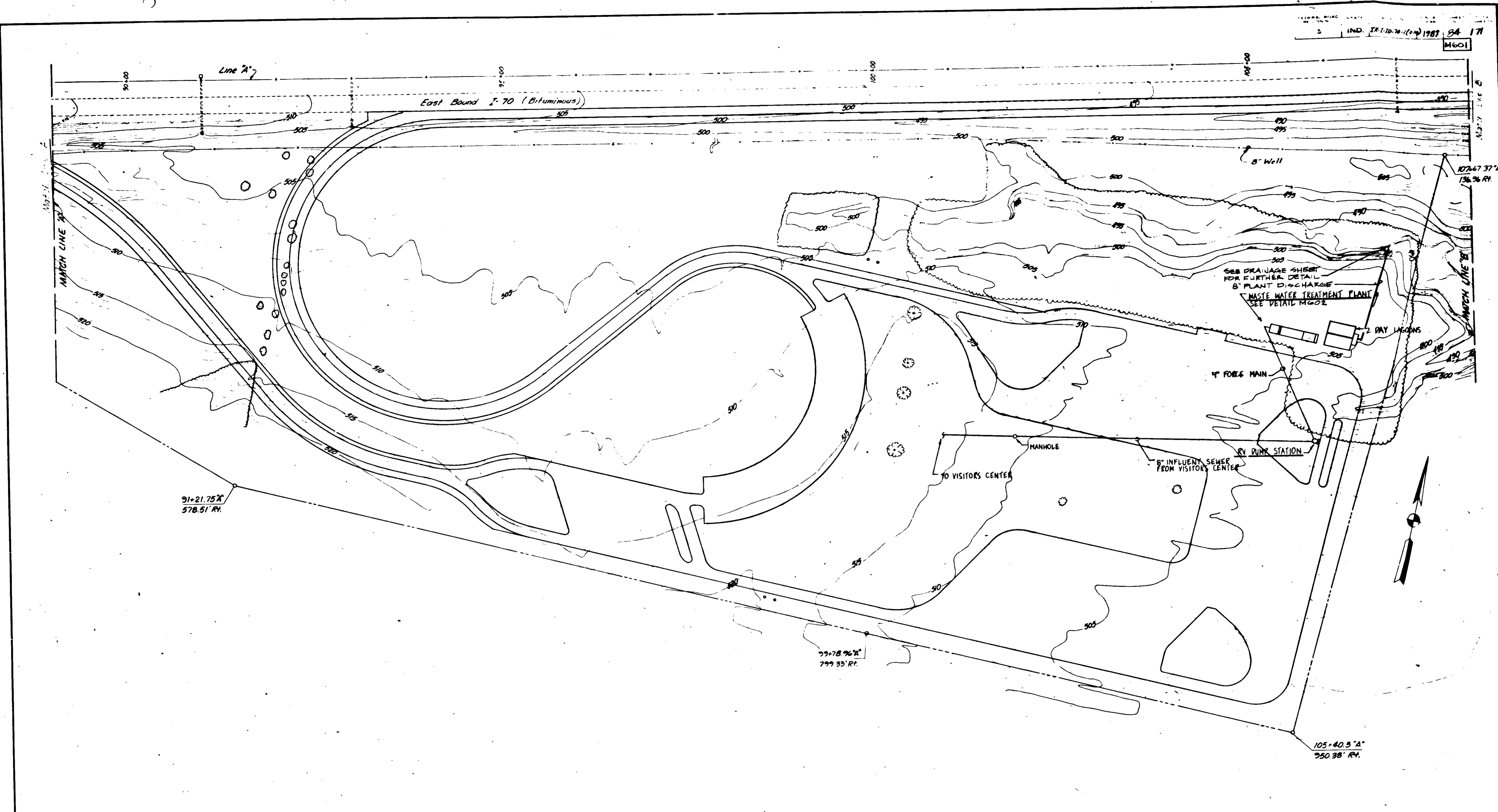
- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED OR INDICATED.
- PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD, UNLESS NOTED OTHERWISE, FOR ALL FLOOR MOUNTED EQUIPMENT. PAD MUST EXTEND 4" BEYOND EQUIPMENT BASE.
- ALL SANITARY & STORM DRAINS INSIDE THE BUILDING SHALL SLOPE AS FOLLOWS:
2-1/2" OR LESS @ 1/4" PER FOOT
3" OR LARGER @ 1/8" PER FOOT
- ALL PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND AVOID DUCTWORK, ELECTRICAL, LIGHTS, BEAMS AND OTHER STRUCTURAL MEMBERS.
- HOT AND COLD PIPING IN CHASES SHALL BE RUN AS HEADERS, THE SAME SIZE AS THE RISER OR DROP TO CHASE. ROUGH-INS TO BE AS INDICATED IN THE "PLUMBING FIXTURE SCHEDULE".
- PIPE SIZES, SHOWN IN THE "PLUMBING FIXTURE SCHEDULE", ARE INDIVIDUAL BRANCH SIZES TO FIXTURES.
- ALL ROOF DRAIN SUMPS, HORIZONTAL AND OFFSET LEADERS BOTH ABOVE CEILING AND EXPOSED SHALL BE INSULATED, SAME AS HOT & COLD WATER.
- ALL ROOF CONDUCTORS SHALL HAVE A CLEANOUT AT THE BASE, IN THE WALL, OR OTHERWISE AS NOTED.
- DRAINAGE PATTERN FITTINGS SHALL BE USED IN THE STORM SYSTEM.

DETAILS SCHEDULES & LEGEND - PLUMBING

R-19057

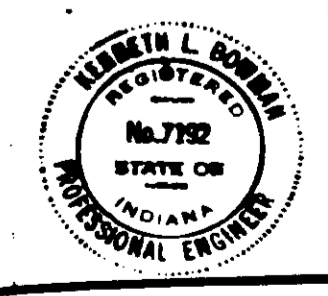
REVISED: MAY 16, 1990 (JAY & LUI)





84002	R60	R60

DETAILS
WASTEWATER TREATMENT
PLANT LAYOUT



R-19057

Contours

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-10-2-100	1989	85	171

FLOW EQUALIZATION TANK

VOLUME = 10,200 GAL.
EQUIPPED W/ FLOW CONTROL BOX,
SUBMERSIBLE CUTTER PUMPS,
BAR SCREEN COMMUNICATOR & AERATION
DIFFUSERS
CAPACITY BASED ON 22,000 GPD AVERAGE
DAILY FLOW, OVER 12 HOUR PERIOD
AERATION CAPACITY = 20 CFM/1000 CF = 27 CFM

AERATED SLUDGE HOLDING TANK

VOLUME = 4350 GAL. BASED ON 20% OF
DESIGN FLOW
AERATION CAPACITY = 20 CFM/1000 CF = 12 CFM

AERATION TANK

VOLUME = 27,000 GAL.
EQUIPPED W/ COARSE BUBBLE DIFFUSERS, 100% RETURN
SLUDGE CAPACITY.
CAPACITY BASED ON 15* BOD/1000 CF x 55* BOD/DAY,
30 HOUR DETENTION
AERATION CAPACITY = 2000 CF/* BOD = 70 CFM

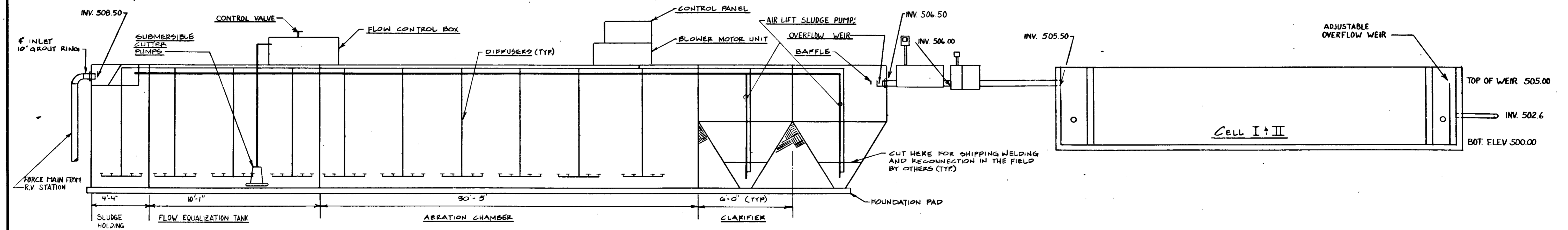
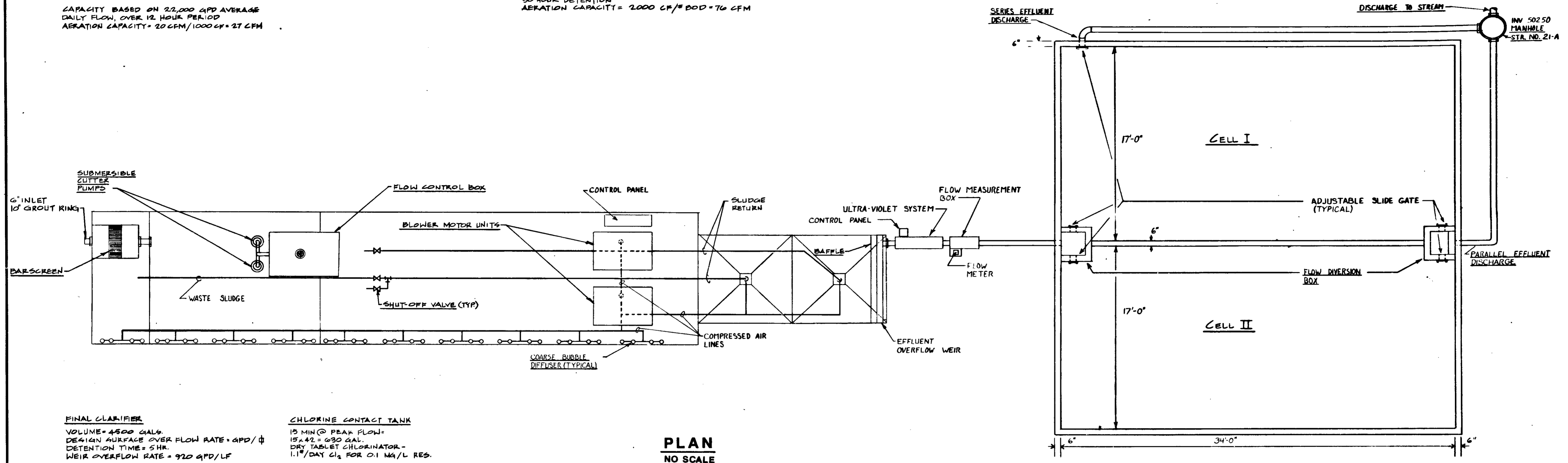
FINAL CLARIFIER

VOLUME = 4500 GAL.
DESIGN SURFACE OVER FLOW RATE = GPD/ft
DETENTION TIME = 5 HR.
WEIR OVERFLOW RATE = 920 GPD/LF

CHLORINE CONTACT TANK

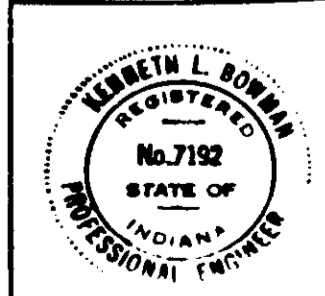
15 MIN @ PEAK FLOW =
15 x 42 = 630 GAL.
DRY TABLET CHLORINATOR -
1.1*/DAY Cl₂ FOR 0.1 MG/L RES.

PLAN
NO SCALE

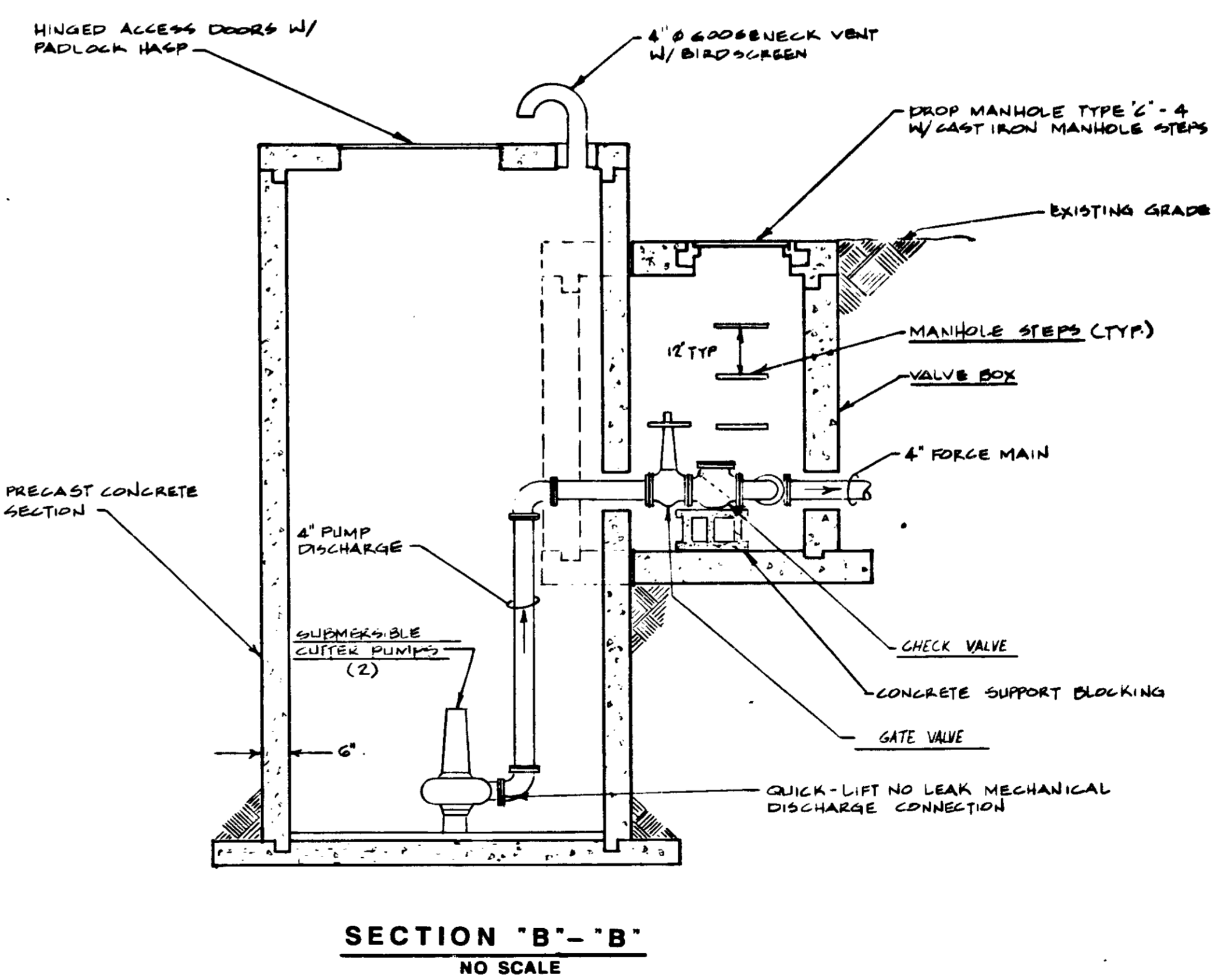
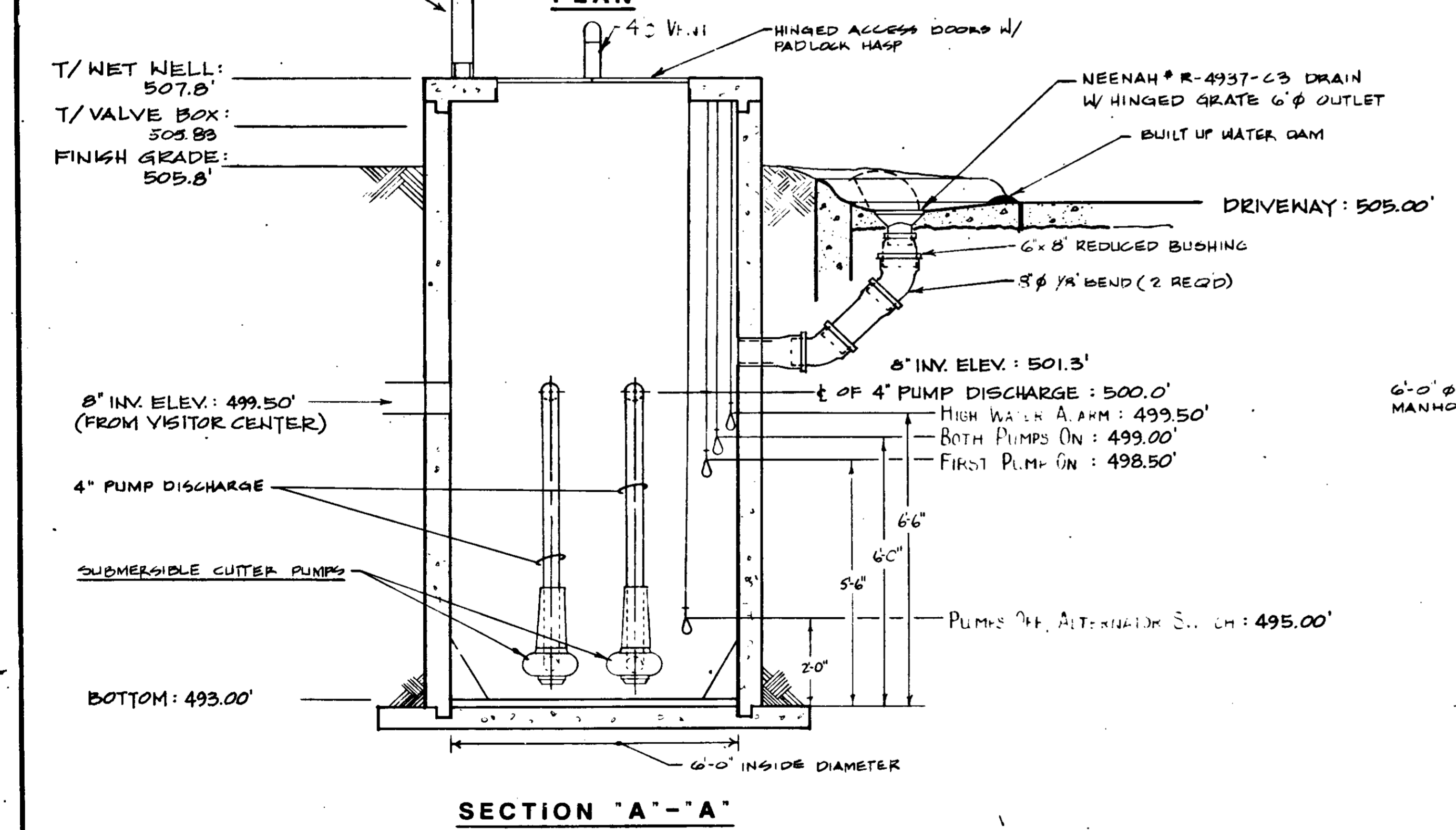
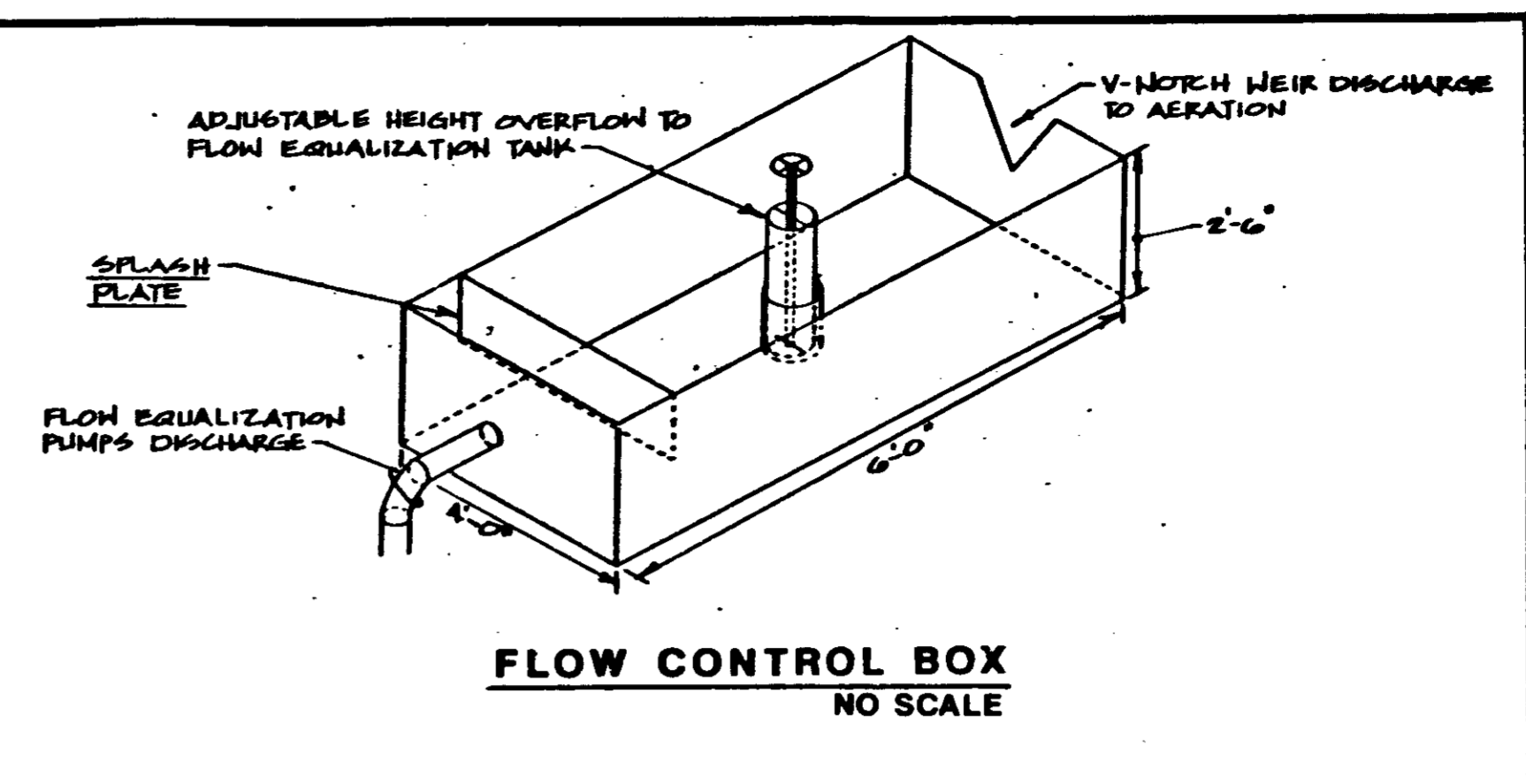
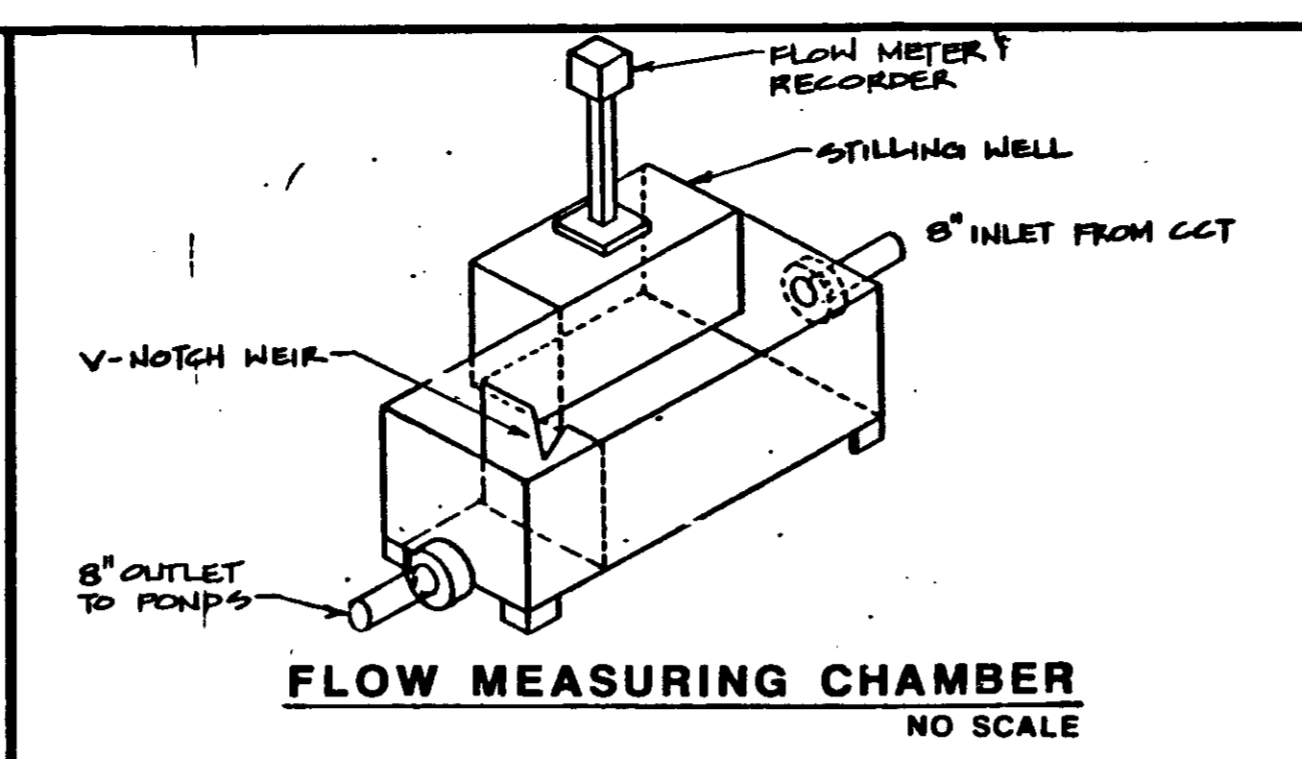
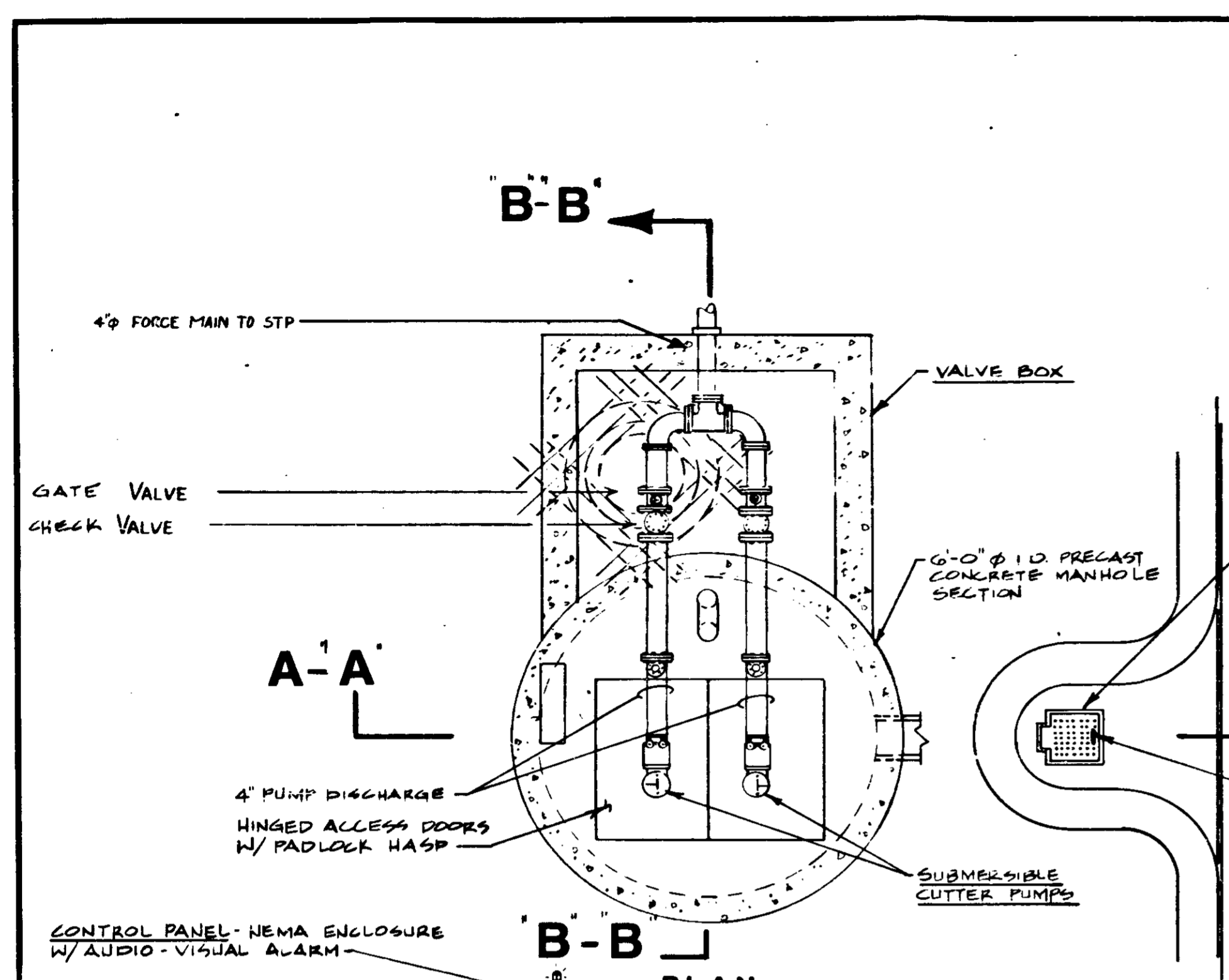


ELEVATION
NO SCALE

DETAILS
WASTEWATER PROCESS
SCHEMATIC
R-19057



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	DP-1 10-78-1613	1989	86	171
					MG03



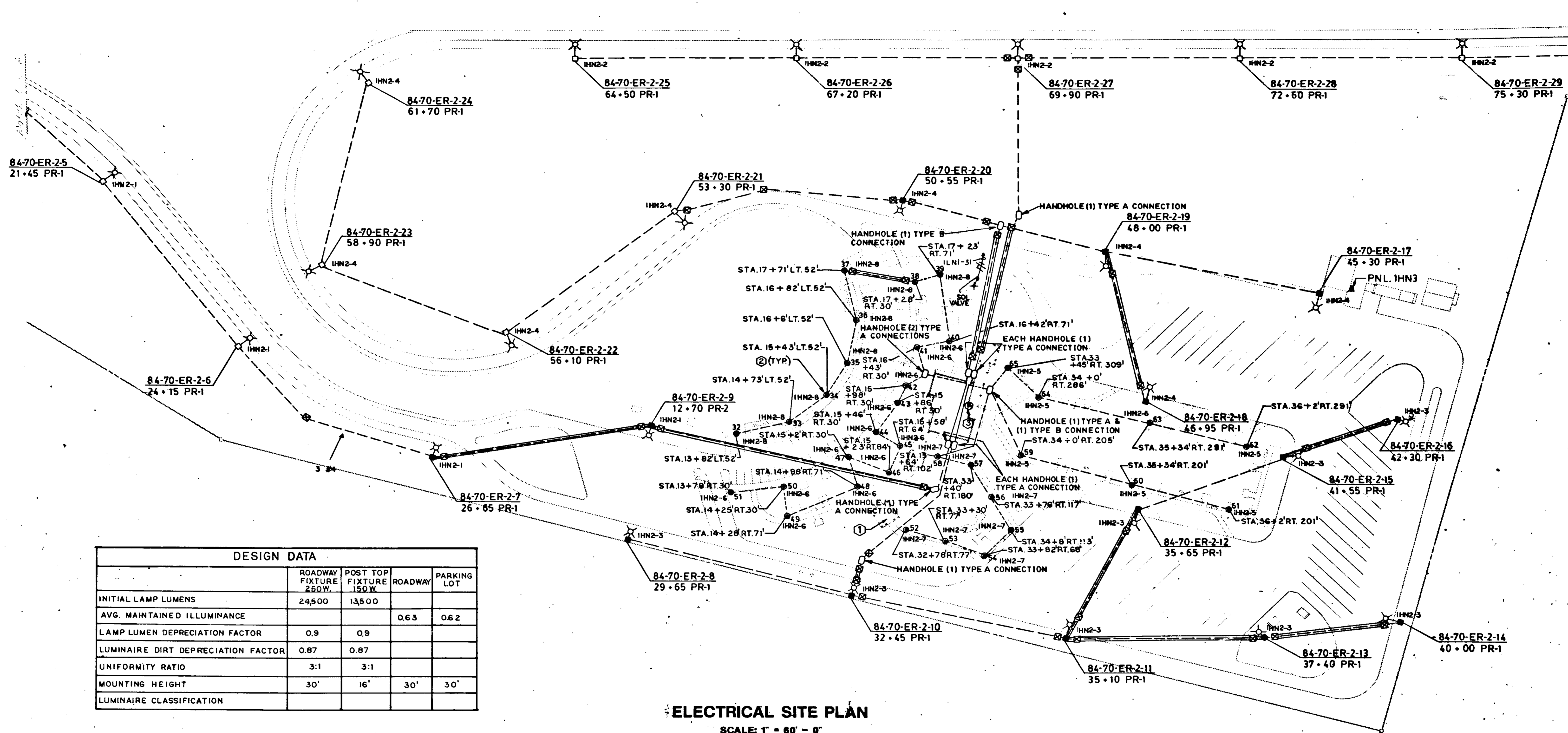
R V DUMP STATION WET WELL
NO SCALE

DETAILS
R V DUMP STATION WET WELL & DETAILS



R-19057

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-HD-704 (010)	1989	07	171
					E101



DESIGN DATA				
	ROADWAY FIXTURE 250W.	POST TOP FIXTURE 150W.	ROADWAY	PARKING LOT
INITIAL LAMP LUMENS	24,500	13,500		
AVG. MAINTAINED ILLUMINANCE			0.63	0.62
LAMP LUMEN DEPRECIATION FACTOR	0.9	0.9		
LUMINAIRE DIRT DEPRECIATION FACTOR	0.87	0.87		
UNIFORMITY RATIO	3:1	3:1		
MOUNTING HEIGHT	30'	16'	30'	30'
LUMINAIRE CLASSIFICATION				

ELECTRICAL SITE PLAN
SCALE: 1" = 60' - 0"

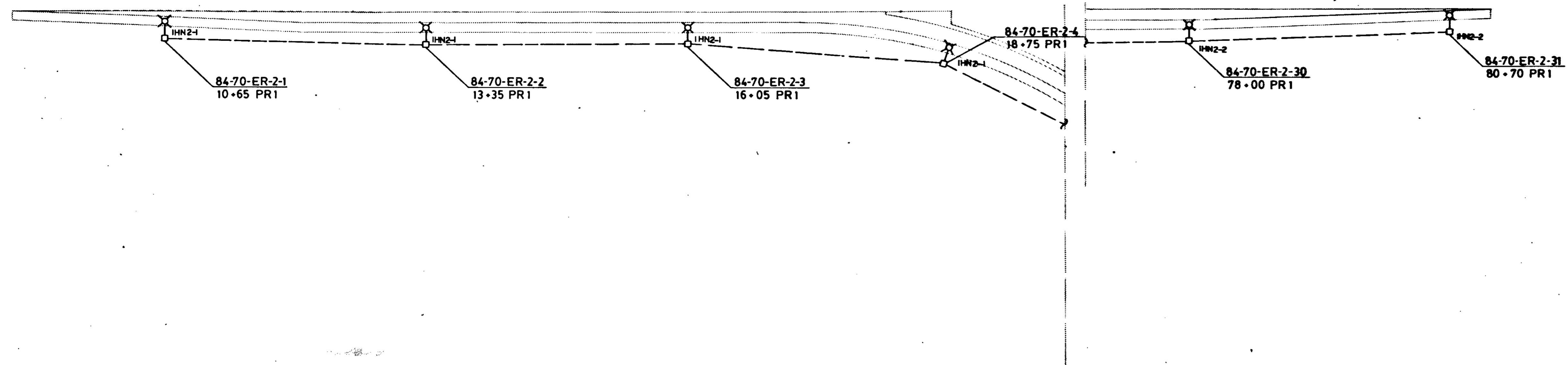
- LEGEND**
- CABLE DUCT IN TRENCH
 - ==== CABLE DUCT IN 2" RGS CONDUIT
 - ⊗ CABLE DUCT MARKER

- PLAN NOTE: O**
1. SEE E201 & E202 AREA 115 FOR LIGHTING & POWER REQUIREMENTS.
 2. APPROXIMATE LOCATION OF POLES EXACT LOCATION TO BE FIELD LOCATED. SEE DETAIL 6' SHT. 26
 3. FOR PHOTOCELL LOCATION SEE SHT. 55

DETAILS
ELECTRICAL SITE PLAN
R-19057



EQUIPMENT: DEC. 01, 1989. ADDED OVERHEAD POLES. ADDED LUMINAIRE DATA. ADDED LUMINAIRE CLASSIFICATION. ADDED PHOTOCELL. ADDED PHOTOCELL LOCATION INFORMATION FOR POST TOP LUMINAIRE'S. ADDED PHOTOCELL. CHANGED BURIED CABLE SYMBOL. REVISIONS: APRIL 27, 1990, ADDED LTQ. POLE CIRCUIT DESIGNATIONS. ADDED SOLENOID VALVE POWER.



ELECTRICAL SITE PLAN
SCALE: 1" = 60' - 0"

LIGHT STANDARD TABLE-POST TOP LUMINAIRE									
LUMINAIRE NO.	TAPERED GALVANIZED STEEL SHAFT			BASE PLATE			ANCHOR BOLT		
	BASE DIA.	TAPER (IN/FT)	THICKNESS	DIAG. DIM.	B.C.	THICKNESS	DIA.	BOLT PROJ.	
32	5.25"	.139/FT.	11 GA.	9.8125x85	8"	1"	.75"	2"	
65	↓	↓	↓	↓	↓	↓	↓	↓	

DETAILS

ELECTRICAL SITE PLAN & DETAILS

R-19057



REVISION: APRIL 27, 1990, ADDED LIGHTING POLE CIRCUIT DESIGNATIONS.

ROADWAY LUMINAIRE

LUMINAIRE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
I	FOUNDATION TYPE	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	B	A	A	A	A
II	CIRCUIT CONNECTION	B	B	B	B	B	B	R	R	R	R	R	R	R	R	R	B	B	B	B	B	R	R	R	R	R	R	R	R	R	R	
III	CONNECTION TYPE	1	2	2	2	2	2	1	2	3	3	2	2	1	2	1	1	1	3	2	2	2	2	1	1	2	3	2	2	2		
IV	MAST ARM LENGTH	20'	20'	15'	15'	15'	15'	10'	5'	10'	5'	15'	15'	15'	15'	15'	15'	15'	15'	15'	10'	15'	15'	15'	15'	15'	15'	15'	15'	15'		
V	ELEVATION	-1.6'	-1.6'	-5.5'	-4.0'	-5.1'	-2.7'	+1.5'	+1.8'	-2.2'	+1.0'	+0.1'	+0.8'	+2.0'	-0.4'	+3.5'	+1.7'	+1.0'	+0.9'	-0.8'	-1.9'	-2.2'	-2.2'	-4.8'	-3.2'	-4.3'	-4.7'	-4.0'	-3.4'	-3.7'	-5.5'	-6.4'
	SET BACK FROM	TAPER	25'																												20'	
		RAMP		25'	20'	20'	20'	20'	30'												15'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'	
		CURB																														

LANDSCAPE LUMINAIRE

LUMINAIRE NO.		32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	
I	FOUNDATION TYPE	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
II	CIRCUIT CONNECTION	B	B	B	B	B	B	B	B	R	R	R	R	R	R	R	R	R	R	R	R	B	B	B	B	B	B	R	R	R	R	R	R	R	R	
III	CONNECTION TYPE	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1	1	2	2	2	2		
IV	TOP OF BASE ELEV.	516.35	516.42	515.78	514.91	513.33	510.53	512.37	513.11	514.98	514.46	515.00	515.25	515.12	515.92	515.88	516.58	515.92	516.07	515.66	516.44	514.70	512.67	511.00	513.23	512.00	513.57	515.43	513.00	509.57	507.94	508.68	511.27	514.00	515.55	
	SET BACK FROM	SIDWALK	1'																																	
	SEE NOTES:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

NOTES:
1. SEE DETAIL NO. 6 ON SHEET NO.26

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-70-1(OK)	1989	89	171

PANEL	AMP	VOLT	Ø	W	C.B.	Ø	A/C	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
1	100	277/480	3	4	4																																
DESCRIPTION		CIR. POLE TRIP		LITE		EQUIP		HEAT		Ø		A/C		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø			

PANEL	AMP	VOLT	Ø	W	C.B.	Ø	A/C	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
1LN1	400	120/208	3	4	4																																
DESCRIPTION		CIR. POLE TRIP		LITE		EQUIP		HEAT		Ø		A/C		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø	

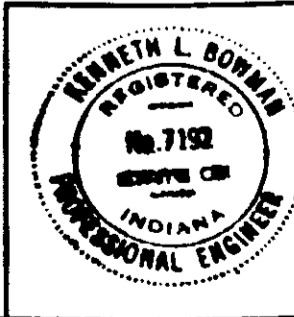
PANEL	AMP	VOLT	Ø	W	C.B.	Ø	A/C	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
1LN2	225	120/208	3	4	4																																	
DESCRIPTION		CIR. POLE TRIP		LITE		EQUIP		HEAT		Ø		A/C		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		

PANEL	AMP	VOLT	Ø	W	C.B.	Ø	A/C	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
1HN1	225	277/480	3	4	4																																	
DESCRIPTION		CIR. POLE TRIP		LITE		EQUIP		HEAT		Ø		A/C		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		

PANEL	AMP	VOLT	Ø	W	C.B.	Ø	A/C	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		
1HN2	100	277/480	3	4	4																																		
DESCRIPTION		CIR. POLE TRIP		LITE		EQUIP		HEAT		Ø		A/C		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø		Ø	

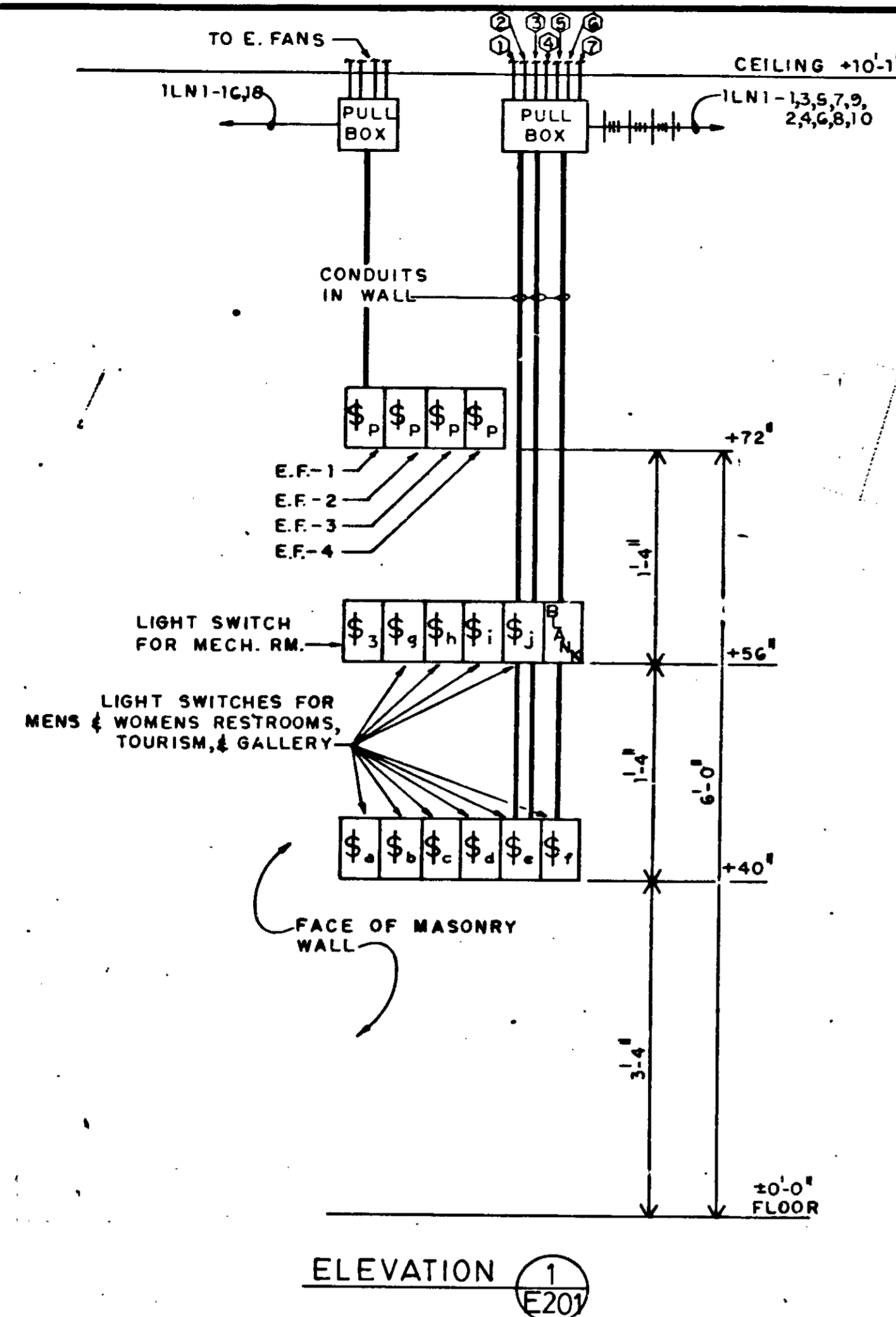
DETAILS

ELECTRICAL SITE SCHEDULE & PANEL SCHEDULES
R-19057



REVISION: APRIL 27, 1990, MODIFIED PANEL SCHEDULES TO ACCOMMODATE WATER LINE ADDITIONAL EQUIPMENT.

ROOM NUMBER	ROOM NAME
101	WOMEN
102	PLUMBING CHASE
103	WOMEN
104	ELECTRICAL EQUIPMENT
105	MECHANICAL ROOM
106	PASSAGE
107	GALLERY
108	PASSAGE
109	TOURISM
110	WORK ROOM
111	MEN
112	PLUMBING CHASE
113	MEN
114	VESTING
115	PICNIC

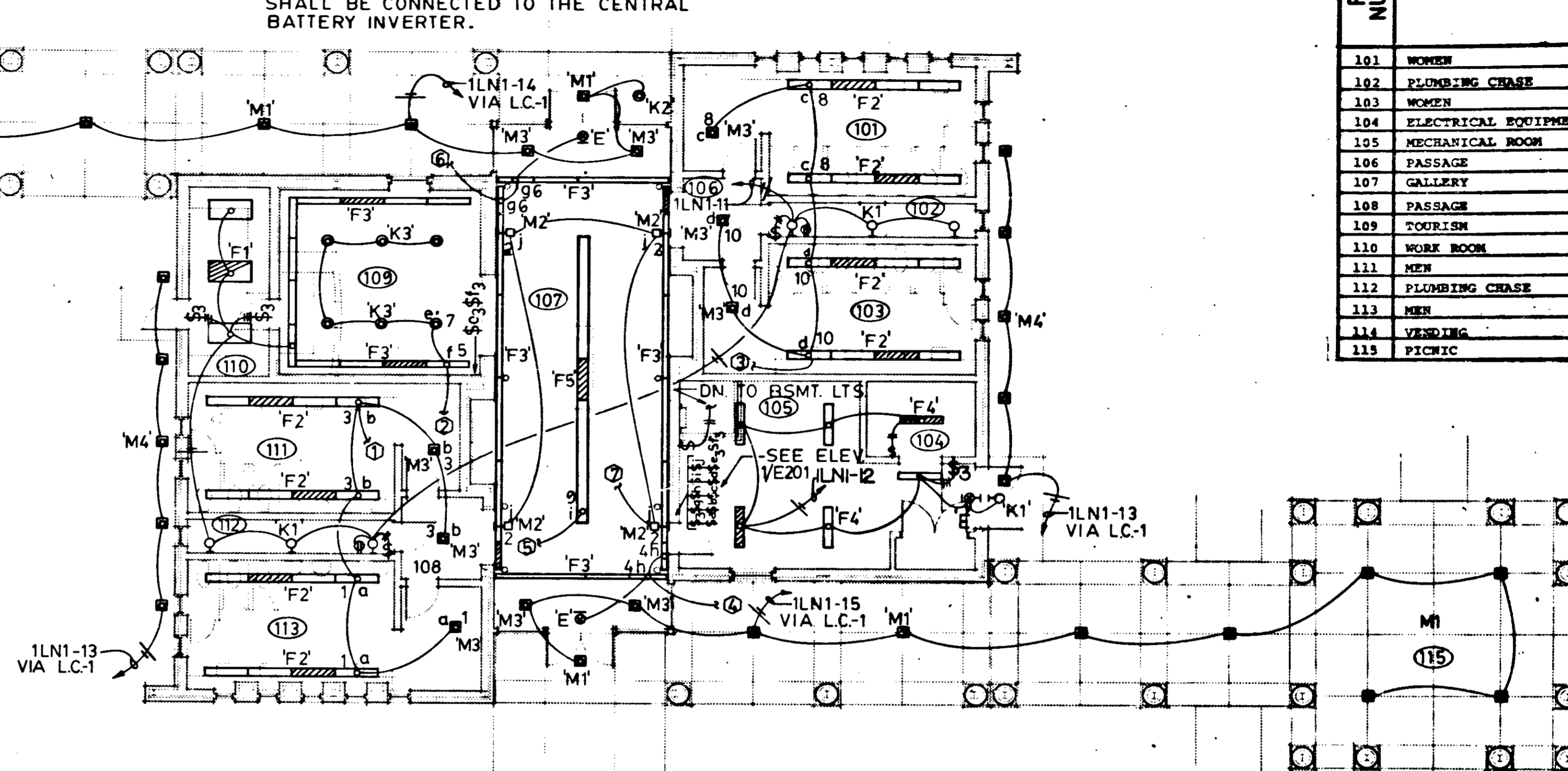


ELEVATION 1
E201

NOTE:
ALL FIXTURES WITH DASHED LINES
SHALL BE CONNECTED TO THE CENTRAL
BATTERY INVERTER.

PLAN NOTES

1. TO \$a & \$b IN MECH. ROOM.
2. TO \$f & \$e " " "
3. TO \$c & \$d " " "
4. TO \$h " " "
5. TO \$i " " "
6. TO \$g " " "
7. TO \$j " " "



ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

DETAILS

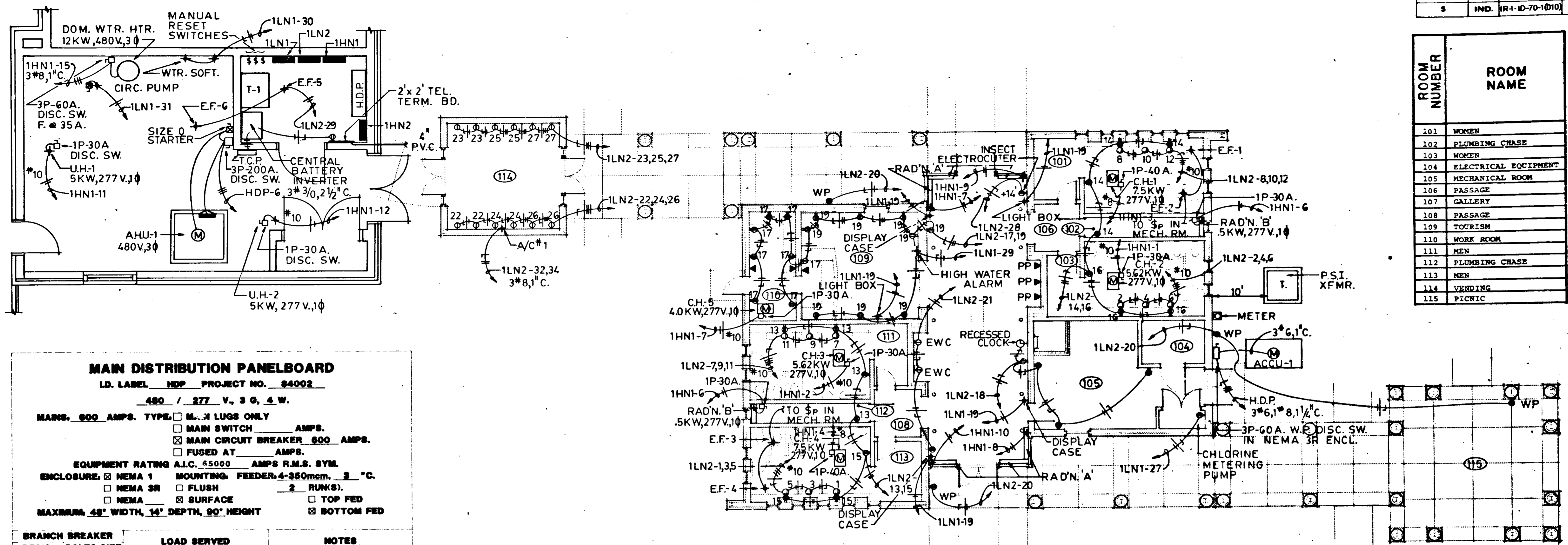
LIGHTING PLAN

R-19057



REVISION: APRIL 27, 1990, MODIFIED LIGHTING LAYOUT
IN ROOM 105

ROOM NUMBER	ROOM NAME
101	WOMEN
102	PLUMBING CHASE
103	WOMEN
104	ELECTRICAL EQUIPMENT
105	MECHANICAL ROOM
106	PASSAGE
107	GALLERY
108	PASSAGE
109	TOURISM
110	WORK ROOM
111	MEN
112	PLUMBING CHASE
113	MEN
114	VENDING
115	PICNIC



ELECTRICAL POWER & COMMUNICATIONS PLAN

SCALE: 1/8" = 1'-0"

MAIN DISTRIBUTION PANELBOARD
 LD. LABEL: HDP PROJECT NO. 84002
 480 / 277 V., 3 Ø, 4 W.

MAINS: 600 AMPS. TYPE: M...X LUGS ONLY

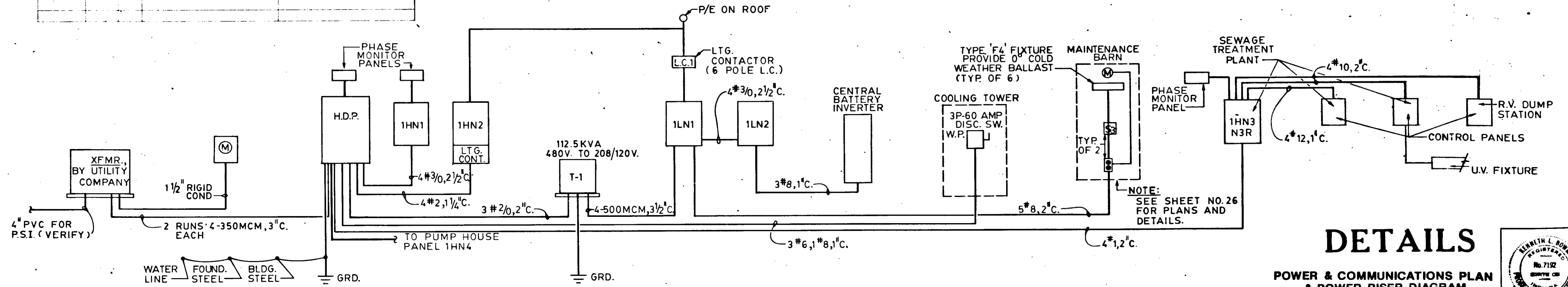
MAIN SWITCH AMPS.
 MAIN CIRCUIT BREAKER 600 AMPS.
 FUSED AT AMPS.

EQUIPMENT RATING A.I.C. 65000 AMPS R.M.S. SYM.

ENCLOSURE: NEMA 1 MOUNTING: FEEDER 4-350mm, 3" C.
 NEMA 3R FLUSH 2 RUN(S).
 NEMA SURFACE TOP FED

MAXIMUM: 48" WIDTH, 14" DEPTH, 90" HEIGHT BOTTOM FED

BRANCH BREAKER DESIG.	POLES	SIZE	LOAD SERVED	NOTES
HDP-1	3	200	PANEL 1HN1	
HDP-2	3	100	PANEL 1HN2	
HDP-3	3	175	TRANSFORMER T-1	
HDP-4	3	100	SEWAGE TREAT. PANEL 1HN3	
HDP-5	3	60	COOLING TOWER	
HDP-6	3	200	AHU-1	
HDP-7	3	100	PUMP HOUSE PANEL 1HN4	



POWER RISER DIAGRAM
NO SCALE

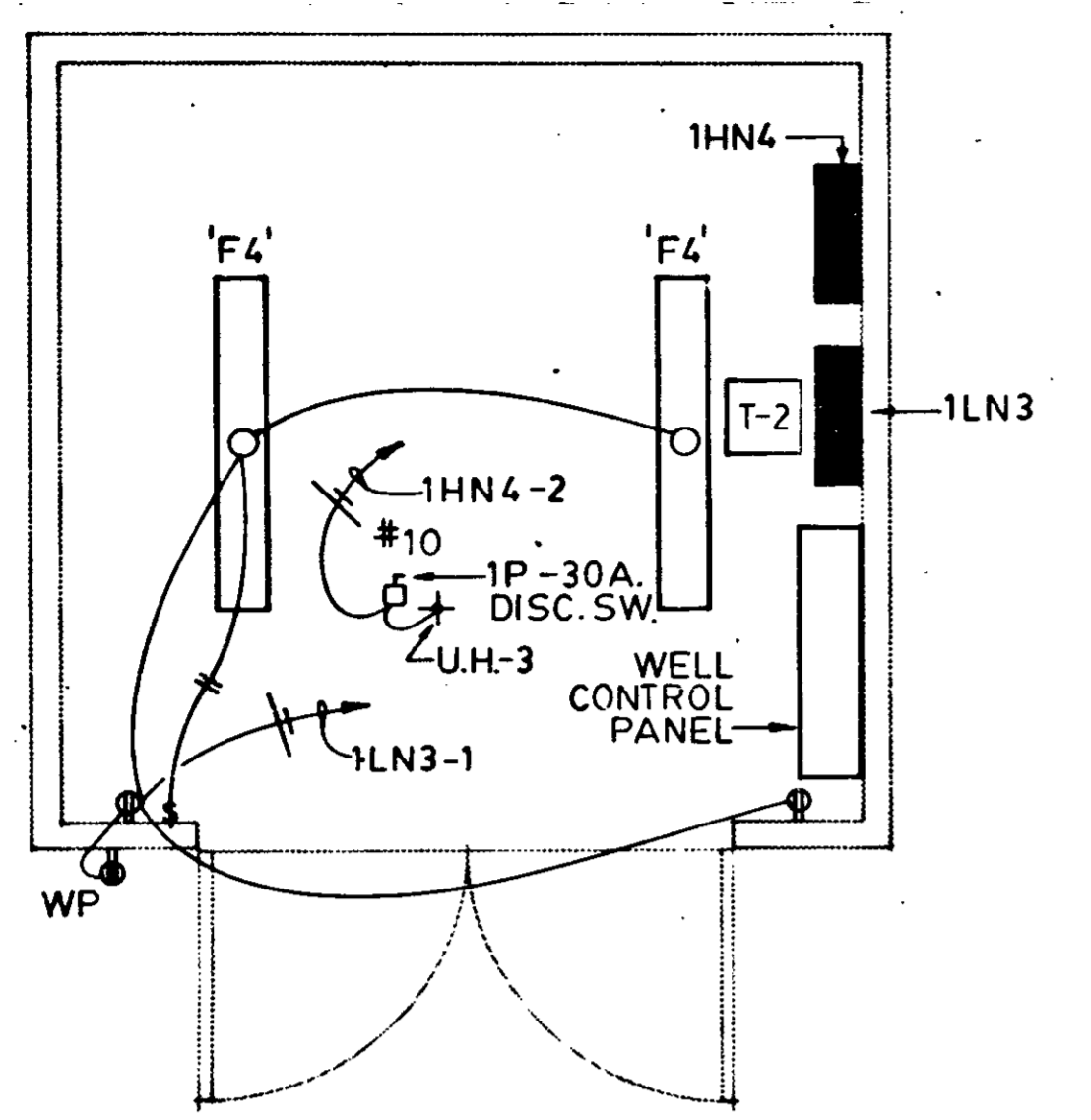
DETAILS

POWER & COMMUNICATIONS PLAN & POWER RISER DIAGRAM

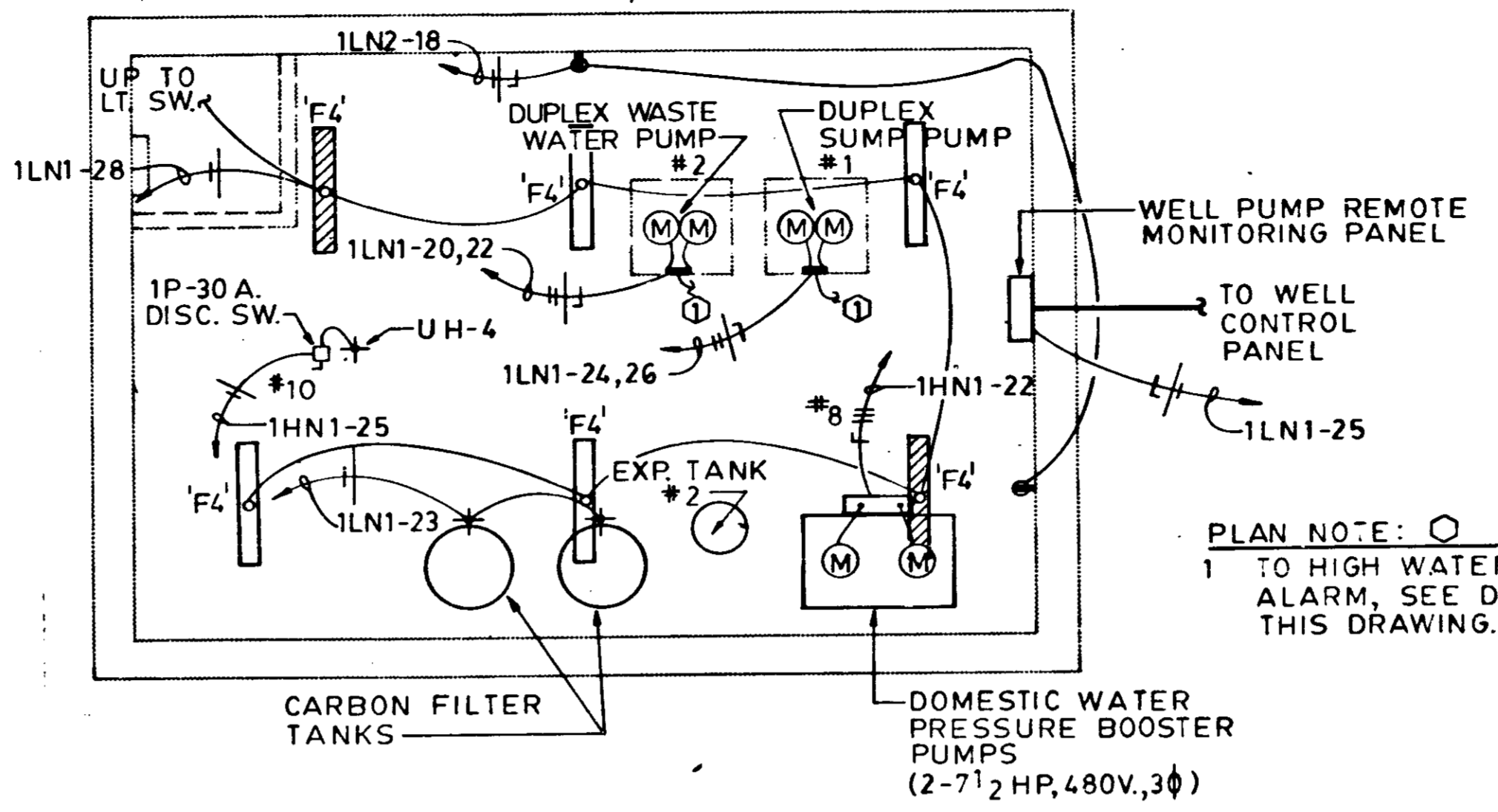
R-19057



REVISIONS: APRIL 27, 1990, MODIFIED POWER IN ROOMS 104 + 105 (1/8" + 1/4" PLANS, MODIFIED POWER RISER DIAGRAM, MODIFIED MOP SCHEDULE.



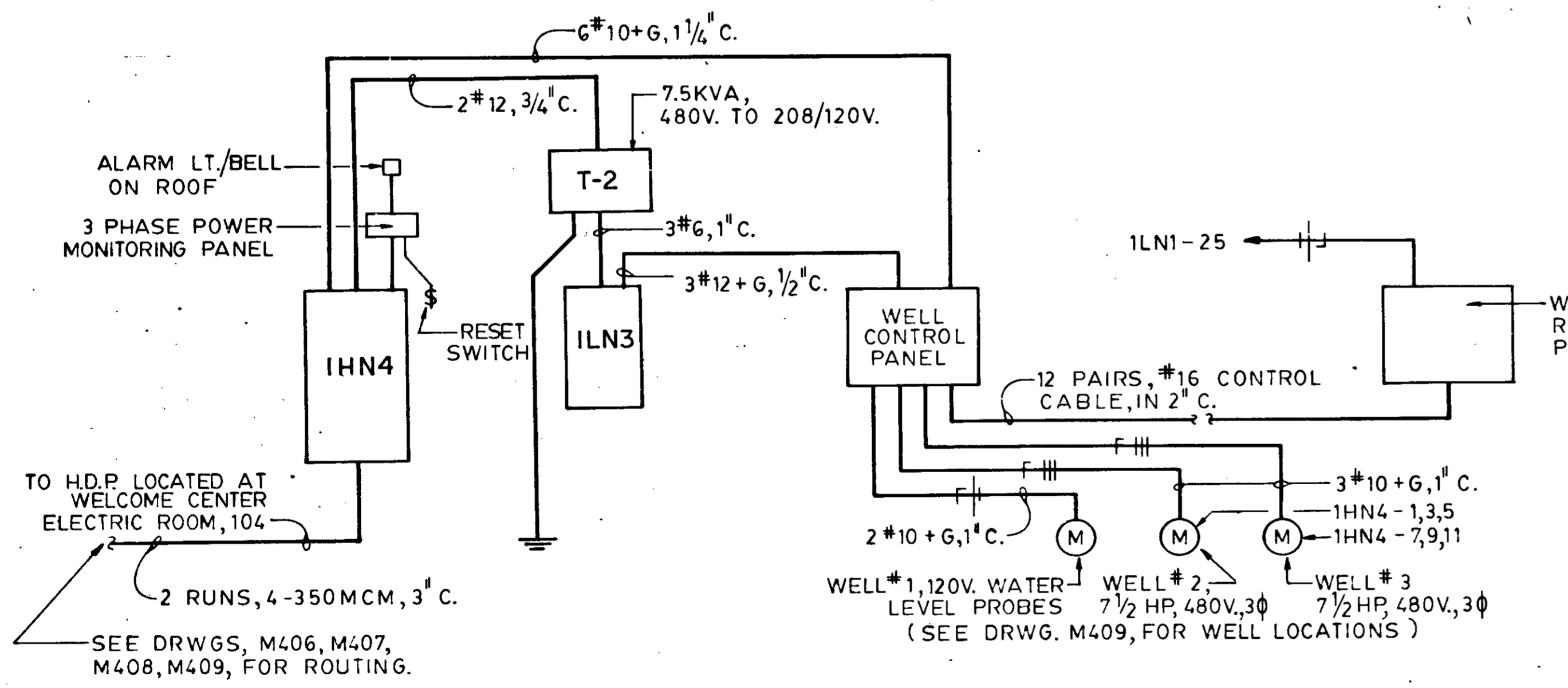
**PUMP HOUSE BUILDING -
LIGHTING, POWER & COMMUNICATIONS PLAN**
SCALE: 1/2" = 1'-0"



BASEMENT LIGHTING, POWER & COMMUNICATIONS PLAN
SCALE: 1/4" = 1'-0"

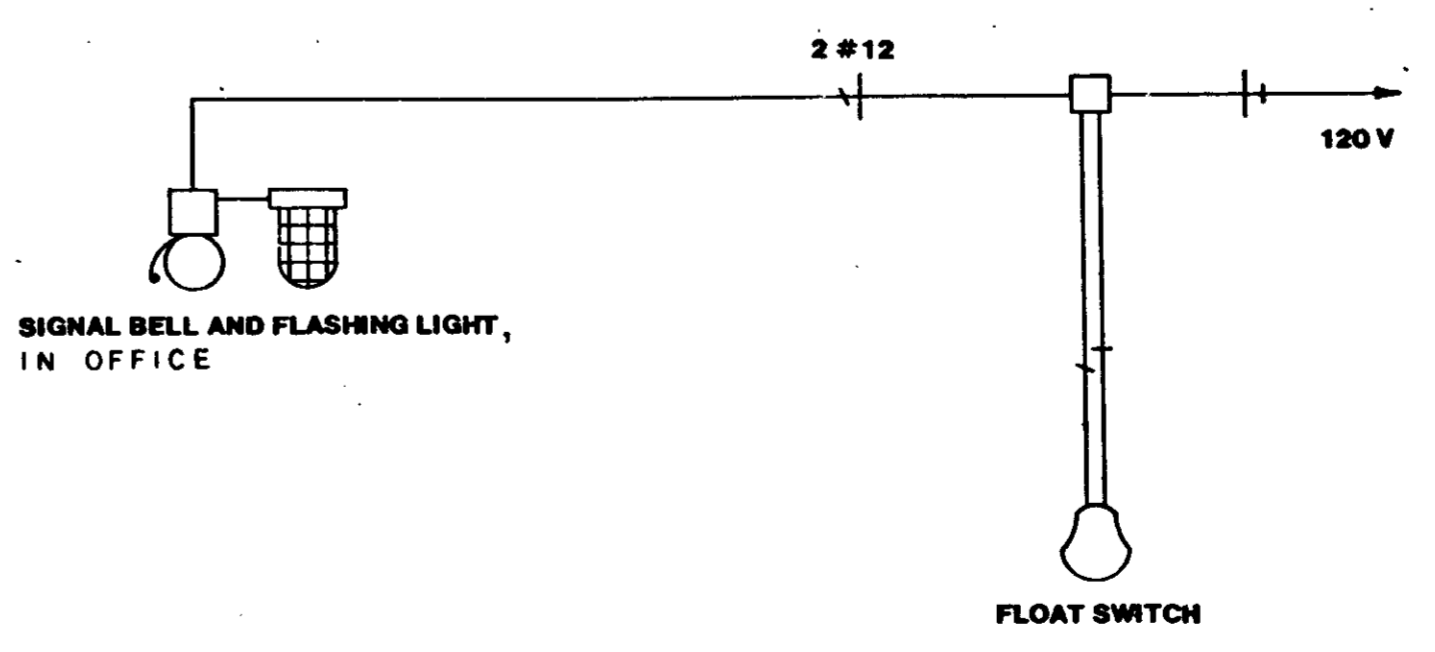
JOB NAME	REST AREA	FLUSH LOCATION	PROJECT NO.	FLUSH LOCATION				
CLEAR CREEK		PUMP HOUSE	84002					
REST AREA								
PANEL	AMP	VOLT	# W	C.B.	LIFE SAFETY	DOUBLE	DOUBLE	REMARKS
IHN4	100	277/480	3	4				35K A.I.C.
DESCRIPTION	CIR. POLE TRIP	LITE	EQUIP	#	A/C	FUR. POLE TRIP	CIR.	DESCRIPTION
XFMR T-1	1	2	20	7.5	3	A		1 30 2 U.H.-3
						B		1 20 4 SPARE
SPARE	5	1	20			C		1 20 8 SPARE
SPACE	7					A		8
						B		9
						C		11
						A		13
						B		15
						C		17
						A		19
						B		21
						C		23
						A		25
						B		
						C		

JOB NAME	REST AREA	FLUSH LOCATION	PROJECT NO.	FLUSH LOCATION				
CLEAR CREEK		PUMP HOUSE	84002					
REST AREA								
PANEL	AMP	VOLT	# W	C.B.	LIFE SAFETY	DOUBLE	DOUBLE	REMARKS
ILN3	60	120/240	1	3				
DESCRIPTION	CIR. POLE TRIP	LITE	EQUIP	#	A/C	FUR. POLE TRIP	CIR.	DESCRIPTION
LIGHTING & RECEPT.	1	1	20			A		1 20 2 WELL PANEL
SPARE	3	1	20			B		1 20 4 " "
SPACE	5					A		1 20 6 SPARE
						B		7
						C		8
						A		9
						B		10
						C		11
						A		12



PARTIAL POWER RISER DIAGRAM
NO SCALE

NOTES:
1. FLOAT SWITCH, SIGNAL BELL AND FLASHING LIGHT SHALL BE FURNISHED BY DIV. 15, DIV. 16 SHALL INSTALL AND WIRE AS SHOWN.



FLOAT SWITCH WIRING DIAGRAM
NO SCALE

DETAILS

PUMP HOUSE BUILDING & BASEMENT
LIGHTING, POWER & COMMUNICATIONS PLAN
R-19057



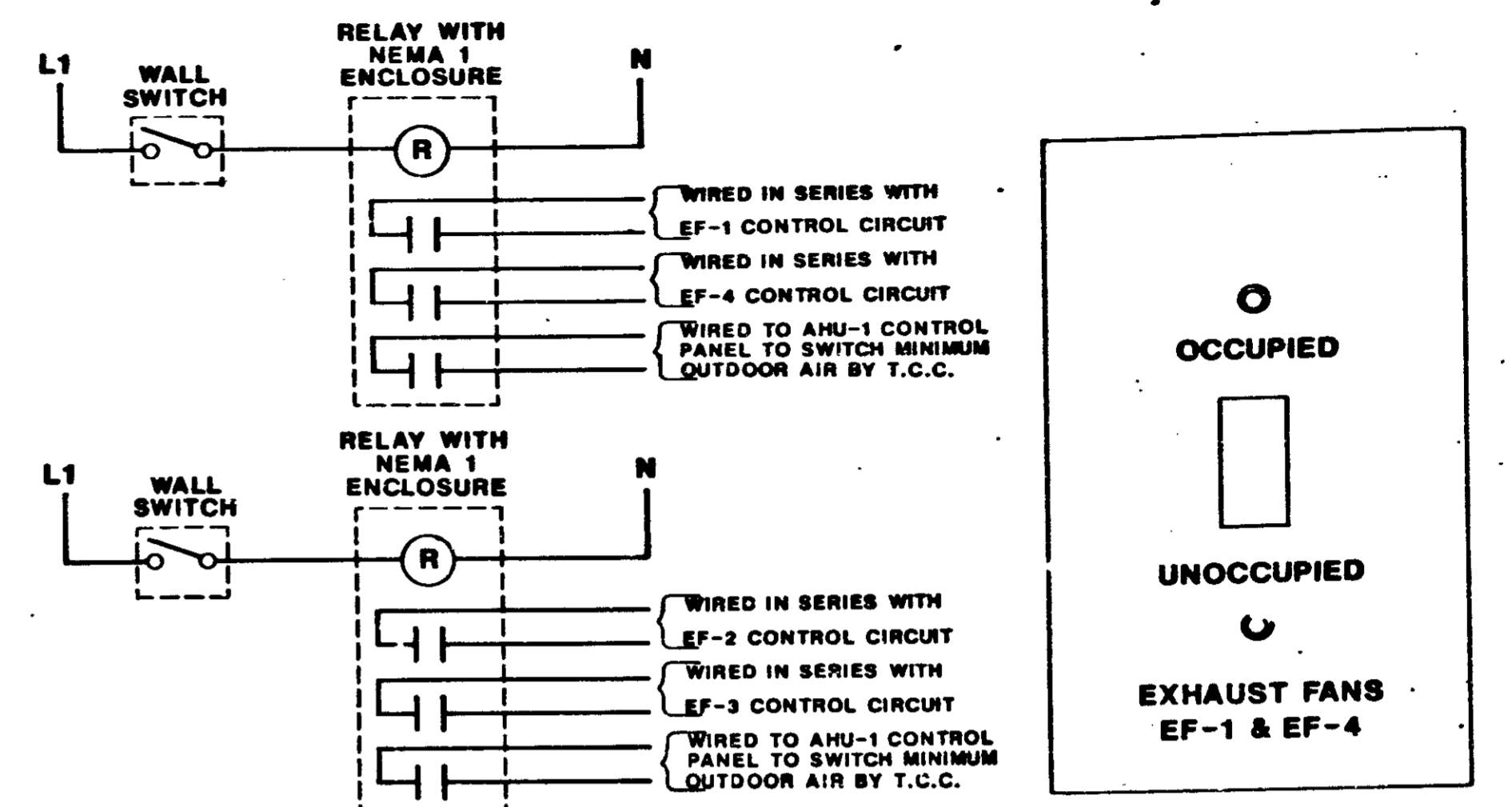
REVISION: APRIL 27, 1990, WATER LINE ADDITIONAL DRAWING

ELECTRICAL SYMBOLS

MOUNTING		DESCRIPTION	MOUNTING		DESCRIPTION	SYMBOL	DESCRIPTION
CEILING	WALL/FLOOR		CEILING	WALL/FLOOR			
○		FLUORESCENT FIXTURE	○		DUPLEX RECEPTACLE	MEL	MOTOR CONTROL CENTER
○		INCANDESCENT FIXTURE	○		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	MDF	MAIN DISTRIBUTION SWITCHBOARD
○		H.I.D. FIXTURE	○		SINGLE RECEPTACLE		ELECTRICAL DISTRIBUTION PANELBOARD
○		FLUORESCENT DOWNLIGHT	○		SINGLE RECEPTACLE MOUNTED ABOVE COUNTER		LIGHTING OR POWER PANEL AS NOTED
○		INCANDESCENT DOWNLIGHT	○		DOUBLE DUPLEX RECEPTACLE		PANEL AS NOTED
○		H.I.D. DOWNLIGHT	○		SPECIAL RECEPTACLE OR OUTLET AS NOTED		TRANSFORMER
○		LIGHT FIXTURE	○		208/240 VOLT - 1/2 RECEPTACLE SIZE AS NOTED		DISCONNECT SWITCH - FUSED
○		CIRCUIT NUMBER	○		SAFETY RECEPTACLE		DISCONNECT SWITCH - NON-FUSED
		LOWER CASE LETTER INDICATES SWITCH	○		WEATHERPROOF DUPLEX RECEPTACLE		LIGHTING CONTACTOR
		UPPER CASE LETTER & NUMBER INDICATE FIXTURE TYPE	○		EXPLOSION PROOF RECEPTACLE OR OUTLET		CONTROL RELAY
		F = FLUORESCENT K = INCANDESCENT M = H.I.D.	○		DUPLEX G.F.C.I. TYPE RECEPTACLE		MAGNETIC MOTOR STARTER
			○		ISOLATED GROUND RECEPTACLE		COMBINATION STARTER & DISC. SW.
			○		DUPLEX RECEPTACLE - TOP HALF SWITCHED		CIRCUIT BREAKER ENCLOSURE
			○		TWIST LOCK RECEPTACLE - TYPE AS NOTED		CAPACITOR SIZE AS NOTED
			○		ISOLATED GROUND TWIST LOCK RECEPTACLE		MANUAL STARTER W/ OVERLOADS
			○		MULTI-OUTLET STRIP - TYPE AS NOTED		MANUAL STARTER W/ PILOTLIGHT
			○		CLOCK AND CLOCK OUTLET		SINGLE PHASE MOTOR
			○		CLOCK OUTLET ONLY		THREE PHASE MOTOR
			○		DOUBLE FACE CLOCK AND CLOCK OUTLET		ELECTRIC DOOR OPERATOR
			○		MASTER CLOCK		ROUGH-IN & FINAL CONNECTION
			○		TELEPHONE OUTLET		MASTER ANTENNA OUTLET
			○		PAY TELEPHONE OUTLET		COMPUTER OUTLET
			○		PUSHBUTTON STATION		TELEVISION OUTLET
			○		PUSHBUTTON STATION		PANIC BUTTON STATION
			○		PUSHBUTTON STATION		EMERGENCY GENERATOR
			○		Buzzer		AUTOMATIC TRANSFER SWITCH
			○		BELL		CONDUIT-CONCEALED IN CEILING OR WALL
			○		CHIME		CONDUIT-CONCEALED IN OR BELOW FLOOR
			○		JUNCTION BOX		CONDUIT-UNDERGROUND
			○		TIME CLOCK		CONDUIT-EXPOSED
			○		THERMOSTAT		DIRECT BURIED CABLE
			○		PULL BOX SIZE AS NOTED		INDICATES HOME RUN
			○		POWER POLE TYPE AS NOTED IN PROJECT MANUAL		INDICATES NUMBER OF CIRCUITS IN RUN
			○				INDICATES GROUND CONDUCTOR
			○				INDICATES SWITCHED AND UNSWITCHED CIRCUITS
			○				CONDUIT TURNED UP
			○				CONDUIT TURNED DOWN
			○				CONDUIT STUBBED OUT AND CAPPED
			○				WIREMOLD TYPE SURFACE RACEWAY
			○				GROUND ROD AND CONNECTION
			○				GROUND CONNECTION
			○				ELECTRICAL HAND-HOLE
			○				PHOTOCELL

ABBREVIATIONS

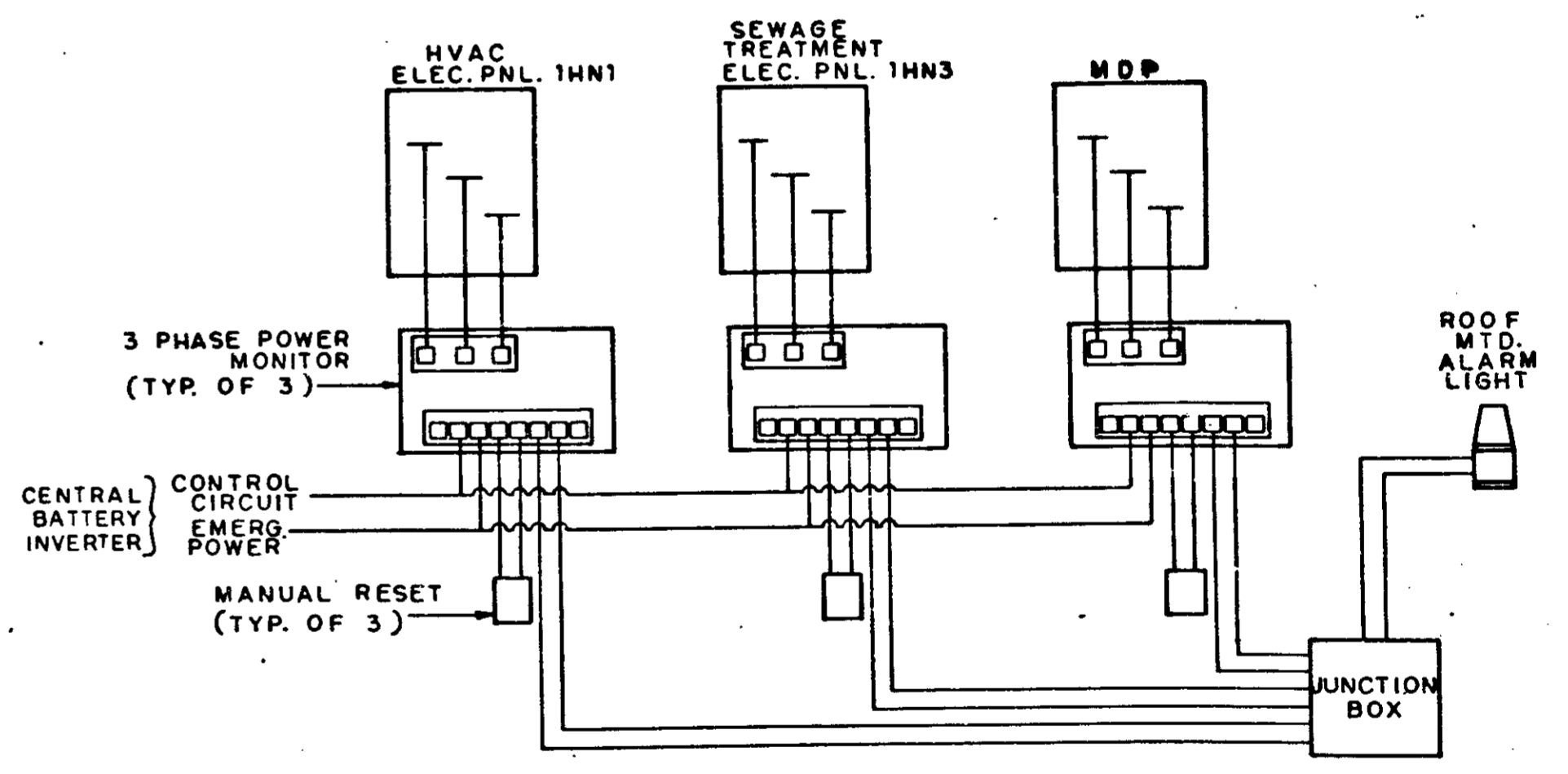
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFB	ABOVE FINISHED FLOOR	FIXT	FIXTURE	NF	NON-FUSED
AFG	ABOVE FINISHED GRADE	FSCP	FLAME SAFEGUARD CONTROL PANEL	NFSS	NON-FUSED SAFETY SWITCH
AHU	AIR HANDLING UNIT	FLUOR	FLUORESCENT	NTS	NOT TO SCALE
AF	AMPERE FRAME	F	FUSED	PNL	PANEL
AT	AMPERE TRIP	FSS	FUSED SAFETY SWITCH	Φ	PHASE
ADD	AUTOMATIC DOOR OPENER	GD	GARBAGE DISPOSAL	P	POLE
ATS	AUTOMATIC TRANSFER SWITCH	GEN	GENERATOR	PWR	POWER
BC	BARE COPPER	G, GND	GROUND	POD	POWER OPERATED DAMPER
BFG	BELOW FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	PTRV	POWER TYPE ROOF VENTILATOR
BRIP	BOILER PLANT INSTRUMENTATION PANEL	GTB	GROUND TERMINAL BOX	PBPU	PREFABRICATED BEDSIDE PATIENT POWER UNIT
CH	CABINET HEATER	HOA	HAND OFF AUTOMATIC	PB	PULL BOX
CLG	CEILING	HH	HANDHOLE	RECEPT	RECEPTACLE
CKT	CIRCUIT	HV	HIGH VOLTAGE	REF	REFRIGERATOR
CB, C/B	CIRCUIT BREAKER	HP	HORSE POWER	RGIP	REMOTE GROUND INDICATOR PANEL
CKT-BKR		INCAND	INCANDESCENT	SS	SAFETY SWITCH
CCTV	CLOSED CIRCUIT T.V.	IG	ISOLATED GROUND	SIG	SIGNAL
C	CONDUIT	JB	JUNCTION BOX	S/N	SOLID NEUTRAL
DB	DIRECT BURIAL	LT	LIGHT	STA	STATION
DISC. SW.	DISCONNECT SWITCH	LTG	LIGHTING	SW	SWITCH
D	DRYER	LTS	LIGHTS	TEL	TELEPHONE
ELEC	ELECTRIC	LTCP	LOCAL TEMPERATURE CONTROL PANEL	TTB	TELEPHONE TERMINAL BOARD
ESM	ELECTRIC STRIP MOLD	LV	LOW VOLTAGE	TTC	TELEPHONE TERMINAL CABINET
EWC	ELECTRIC WATER COOLER	MCB	MAIN CIRCUIT BREAKER	TV	TELEVISION
EMERG	EMERGENCY	MDP	MAIN DISTRIBUTION PANEL	XFMR	TRANSFORMER
EC	EMPTY CONDUIT	MDS	MAIN DISTRIBUTION SWITCHBOARD	UF	UNDERGROUND FEEDER
EG	EQUIPMENT GROUND	MLO	MAIN LUG ONLY	UH	UNIT HEATER
EF	EXHAUST FAN	MH	MANHOLE	VP	VAPOR PROOF
EX	EXISTING	MTS	MANUAL TRANSFER SWITCH	V	VOLTAGE
EJ	EXPANSION JOINT	MATV	MASTER ANTENNA TELEVISION	WA	WASHER
EXP_XP	EXPLOSION PROOF	MCC	MOTOR CONTROL CENTER	WT	WATER TIGHT
FCU	FAN COIL UNIT	MTD	MOUNTED	WP	WEATHERPROOF
FI	FILM ILLUMINATOR	MTG HGT	MOUNTING HEIGHT	W	WIRE
FA	FIRE ALARM	N/L	NIGHT LIGHT	W/	WITH
FACP	FIRE ALARM CONTROL PANEL				



NOTE: LOCATE RELAYS AND SWITCHES IN MECHANICAL ROOM.

OCCUPIED - UNOCCUPIED EXHAUST FAN CONTROL WIRING DIAGRAM
NO SCALE

OCCUPIED - UNOCCUPIED SWITCH PLATE DETAIL
NO SCALE



TYPICAL PHASE POWER MONITOR WIRING DIAGRAM
N.T.S.

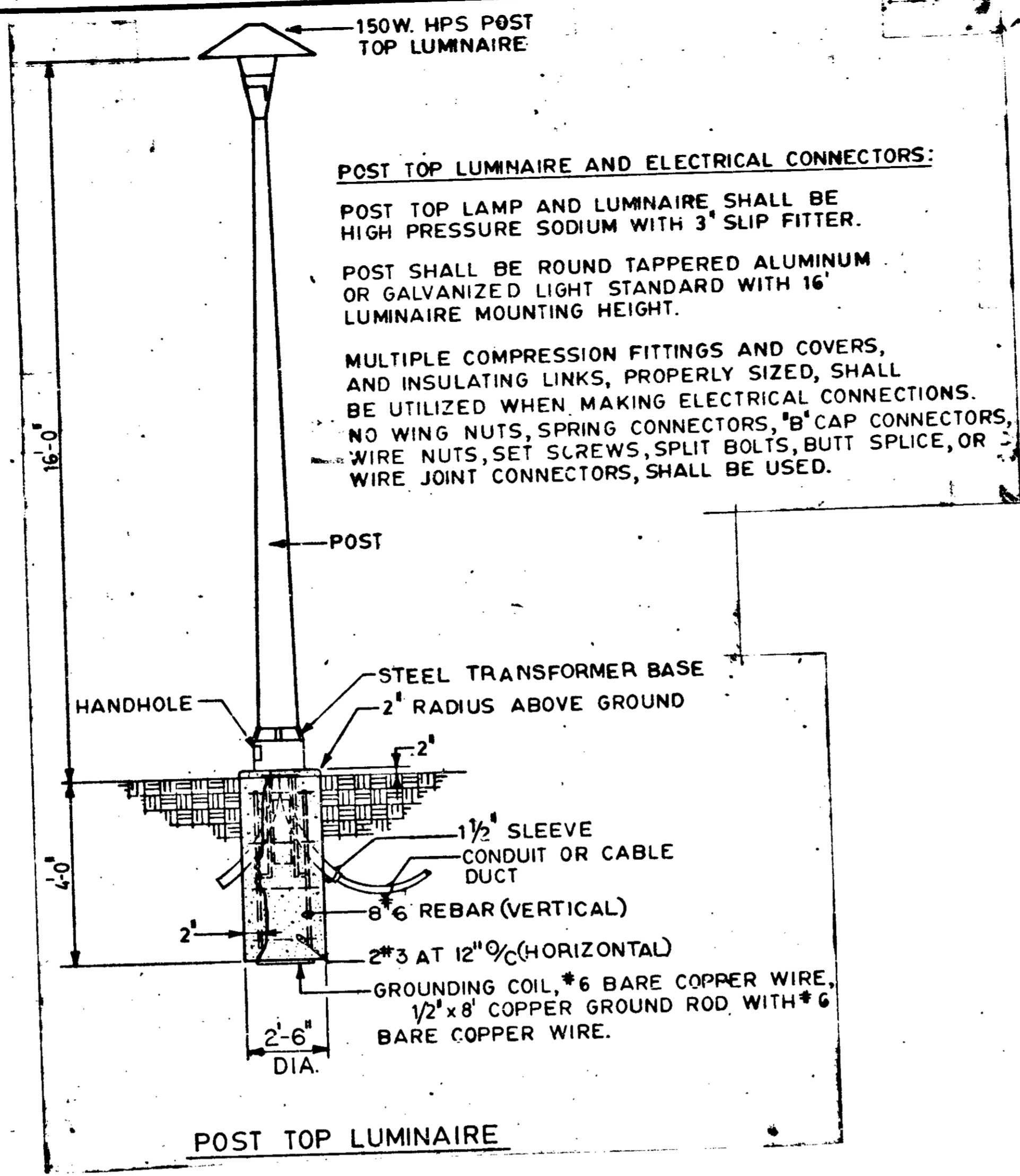
DETAILS

ELECTRICAL SYMBOLS & WIRING DIAGRAMS
R-19057



REVISIONS: DEC 01, 1989, ADD PHOTOCELL SYMBOL, 250, 150, 140, 130, 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 0
REVISIONS: APRIL 27, 1990, MODIFIED PHASE POWER MONITOR DIAGRAM

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-1-D-704 (00)	1989	94	171
				E302	



POST TOP LUMINAIRE AND ELECTRICAL CONNECTORS:

POST TOP LAMP AND LUMINAIRE SHALL BE HIGH PRESSURE SODIUM WITH 3" SLIP FITTER.

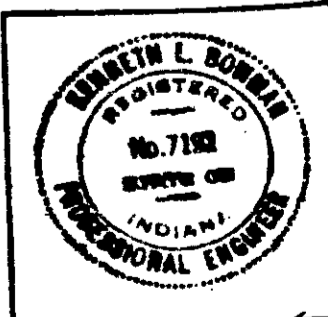
POST SHALL BE ROUND TAPERED ALUMINUM OR GALVANIZED LIGHT STANDARD WITH 16' LUMINAIRE MOUNTING HEIGHT.

MULTIPLE COMPRESSION FITTINGS AND COVERS, AND INSULATING LINKS, PROPERLY SIZED, SHALL BE UTILIZED WHEN MAKING ELECTRICAL CONNECTIONS. NO WING NUTS, SPRING CONNECTORS, "B" CAP CONNECTORS, WIRE NUTS, SET SCREWS, SPLIT BOLTS, BUTT SPLICE, OR WIRE JOINT CONNECTORS, SHALL BE USED.

DETAILS

ELECTRICAL SITE DETAILS

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REVISIONS: DUC 01/18 DOWNTOWN EAST DETAIL SHEET POST TOP LUMINAIRE. REFER TO DETAIL TO REBAR TRANSFORMER BASE, ABOVE THIS DETAIL TO LAMPPOST POSTING.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER & NO.	LAMPS	LAMP TYPE	VOLTAGE	DESCRIPTION
M4	MARCO HPX735-Y223KP LITHONIA LH35SM-120 HL-5 PRESCOLITE SBX35-HL85-120	1	LU35/D/MED	120	RECESSED, HIGH PRESSURE SODIUM, MICROGROOVE BAFFLE WITH FRESNEL LENS REFLECTOR, MINIMUM WHITE TRIM, MEDIUM BASE PORCELAIN 4KV PULSE RATED SOCKET, ENCASED AND POTTED HIGH POWER FACTOR BALLAST, COLD WEATHER BALLAST, U.L. LISTED FOR DAMP LOCATION AND THRU WIRING.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER & NO.	LAMPS	LAMP TYPE	VOLTAGE	DESCRIPTION
F1	COLUMBIA P4-243G-43363-3-120-ESB LITHONIA 2PM3GB340-18-120-ES METALUX 2P3G-340S36M-120-LE3 MILLER RD3GSZAFE1A	3	F40SP30/RS/WM	120	2' X 4' 18 CELL 3" DEEP PARABOLIC LOUVER FLUORESCENT LAY-IN, BLACK REVEAL, SEMI SPECULAR ALUMINUM FINISH LOUVER, DIE-FORMED CODE GAUGE C.R. STEEL HOUSING, LOUVER HINGED FROM EITHER SIDE, MECHANICAL LIGHT TRAP, SPRING LOADED LATCHES, MINIMUM FIXTURE DEPTH 5 1/2".
F2	COLUMBIA P4-142F-43193-3-120-ESB LITHONIA HPM3GB-9-120-ES MILLER RC2GSABE1A METALUX P3GAX-240S18H-120-LE3	2	F40SP30/RS/WM	120	1' X 4' 8 or 9 CELL 3" DEEP PARABOLIC LOUVER FLUORESCENT LAY-IN, BLACK REVEAL, SEMI SPECULAR ALUMINUM FINISH LOUVER, DIE-FORMED CODE GAUGE C.R. STEEL HOUSING, LOUVER HINGED FROM EITHER SIDE, MECHANICAL LIGHT TRAP, SPRING LOADED LATCHES, MINIMUM FIXTURE DEPTH 5 1/2".
F3	LITHONIA SS240-120-ES SIMKAR STC240-120 ROBERT MANUFACT. SG240120ESB	2	F40SP30/RS/WM	120	4' - 2 LAMP STAGGERED STRIP FLUORESCENT, CHANNEL AND CHANNEL COVER DIE-FORMED FROM CODE GAUGE C.R. STEEL, HIGH GLOSS BAKED WHITE ENAMEL FINISH, MAXIMUM HEIGHT 4", MAXIMUM WIDTH 4 3/4".
F4	MILLER IG042RPA00E1 LITHONIA L240-120-ES KEYSTONE CSR240120LE METALUX IC-240-120-LE3	2	F40SP30/RS/WM	120	4' - 2LAMP, CLOSE TOP INDUSTRIAL FLUORESCENT, CHANNEL AND REFLECTOR DIE-FORMED CODE GAUGE C.R. STEEL, REFLECTOR SECURED BY CAPTIVE QUARTER-TURN LATCHES, HIGH GLOSS BAKED WHITE ENAMEL FINISH, MOUNTING: CHAIN HUNG WITH CORD AND TWISTLOCK PLUG CONNECTOR.
F5	COAST LIGHTING SYSTEMS LR1224-WB-WB-CB-R-4-GC LR1224-WB-WB-CB-R-8-GC COLE C1584	3	F40SP30/RS/WM	120	4' AND 8'-3 LAMP ROUND FLUORESCENT, 2 DOWN LIGHTS AND 1 UPLIGHT, CODE GAUGE C.R. STEEL HOUSING, HIGH GLOSS WHITE REFLECTOR, 1/16" STAINLESS STEEL AIRCRAFT CABLE, CABLE ROTATABLE MOUNTING, WHITE BAFFLE SHIELDING TOP AND BOTTOM, ENERGY SAVING BALLAST, COLOR TO BE SELECTED BY ARCHITECT. SEE DETAIL A, SHEET A202 FOR END CONDITION DETAIL AND BUILDING SECTION B, SHEET A301 FOR MOUNTING DETAILS.
K1	LITHONIA WJC MARCO B112011S PRESCOLITE WB-24	1	100A19	120	WALL MOUNTED, INCANDESCENT, OPAL GLASS CYLINDER DIFFUSER, MOUNTING BRACKET OF DIE CAST ALUMINUM, U.L. LISTED FOR WET LOCATION, MEDIUM BASE SOCKET, SATIN OR BRUSHED ALUMINUM FINISH.
K2	LITHONIA LP/RE-1 MARCO MX7-75P PRESCOLITE 39HF	1	75R30/SP	120	RECESSED, INCANDESCENT, MATTE WHITE BALL AND TRIM, 22 GAUGE C.R. STEEL PREWIRED RECESSED HOUSING, BAKED WHITE ENAMEL FINISHED, 14 GAUGE C.R. STEEL JUNCTION BOX, EYEBALL ADJUSTS 40 DEGREES FROM VERTICAL MINIMUM, 350 DEGREES ROTATION MINIMUM, U.L. LISTED FOR DAMP LOCATIONS.
K3	MARCO MX711-418 PRESCOLITE BX-TO-715 LITHONIA LS/RO-3A	1	150A21	120	RECESSED, INCANDESCENT, CLEAR ALZAK REFLECTOR, WHITE TRIM RING, CODE GAUGE C.R. STEEL HOUSING, U.L. LISTED FOR THROUGH WIRING, MEDIUM BASE PORCELAIN SOCKET, TEMPERED SPRING STEEL REFLECTOR RETAINERS.
M1	MARCO HPX770-Y223KP LITHONIA LH70SM-120 HL5 PRESCOLITE SBX70-HL85-120	1	LU70/D/MED	120	RECESSED, HIGH PRESSURE SODIUM, MICROGROOVE BAFFLE WITH FRESNEL LENS REFLECTOR, MINIMUM WHITE TRIM, MEDIUM BASE PORCELAIN 4KV PULSE RATED SOCKET, ENCASED AND POTTED HIGH POWER FACTOR BALLAST, COLD WEATHER BALLAST, U.L. LISTED FOR DAMP LOCATION AND THRU WIRING.
M2	INDALUX FAX40-M250-WBI-120 STERNER AT10WMF250H120NS SPI LIGHTING SPL1503SAP6	1	MVR250/SP30/U	120	WALL MOUNTED, INDIRECT, METAL HALIDE, ASYMMETRIC WIDE DISTRIBUTION ONE PIECE HYDROFORMED POLISHED ALUMINUM REFLECTOR, 20 GAUGE C.R. STEEL HOUSING, CORNERS CONTINUOUSLY WELDED AND GROUND SMOOTH, CLEAR TEMPERED GLASS LENS, OPTICAL CHAMBER SEALED TO MINIMIZE DUST ON LAMP AND REFLECTOR, ENCASED AND POTTED HIGH POWER FACTOR BALLAST, MOQUIL BASE PORCELAIN SOCKET, PULSE RATED, COLOR TO BE SELECTED BY ARCHITECT.
M3	MARCO LMX7-62-CL99 LITHONIA LH100MM-120-HO-3A PRESCOLITE 1290M5-100MHFE-992-120	1	M100/C/BU/BD-ONLY	120	RECESSED, METAL HALIDE, SPECULAR CLEAR ALZAK REFLECTOR WITH WHITE TRIM RING, TEMPERED CLEAR GLASS SHIELD, DIECAST ALUMINUM OR DIE FORMED C.R. STEEL FRAME/HOUSING, MEDIUM BASE PORCELAIN PULSE RATED SOCKET, ENCASED AND POTTED HIGH POWER FACTOR BALLAST, U.L. LISTED FOR DAMP LOCATION AND THRU WIRING.

DETAILS

LIGHT FIXTURE SCHEDULE

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