

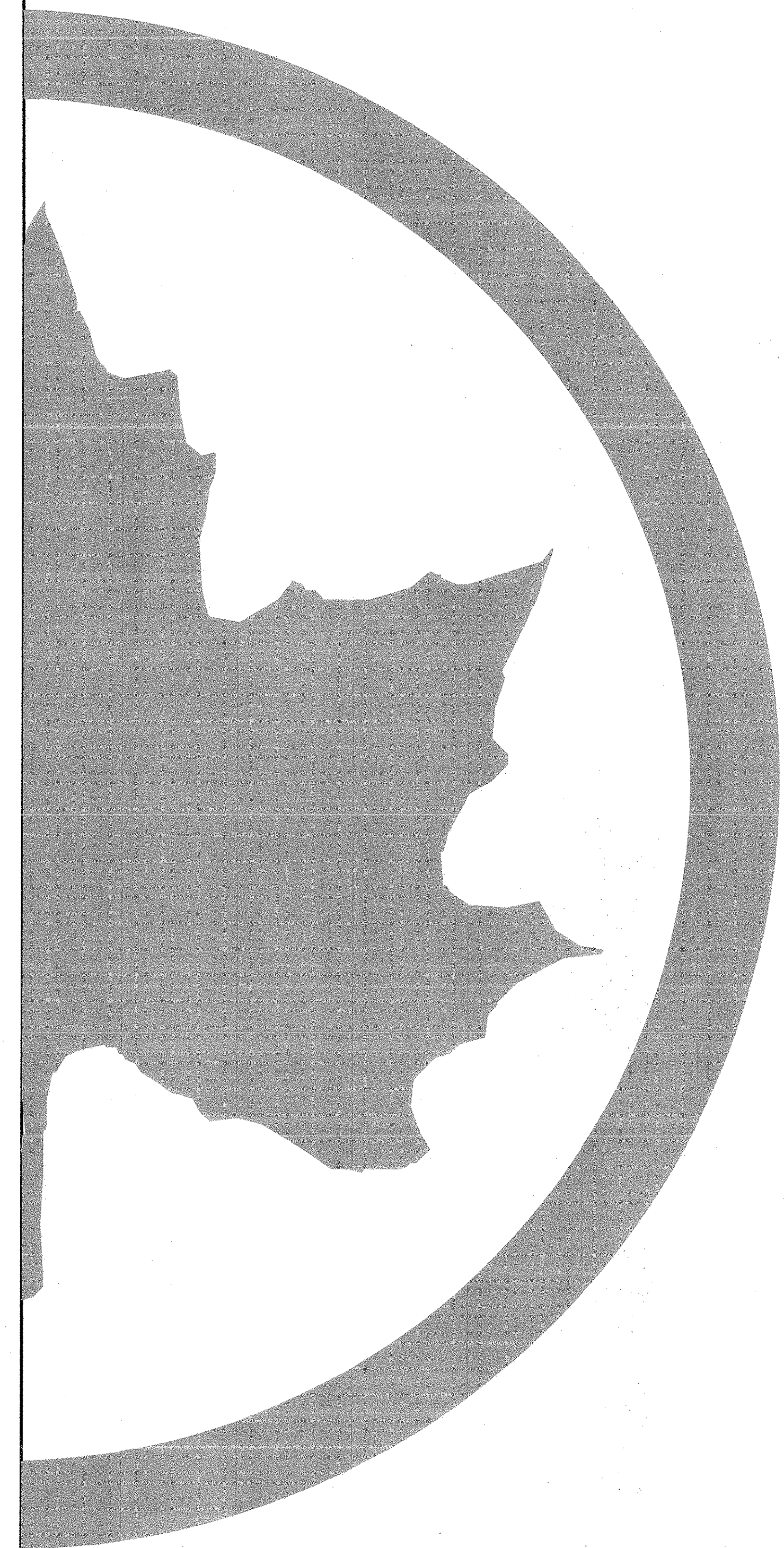
CITY OF NEW YORK PARKS AND RECREATION
CAPITAL PROJECTS

SPECIFICATIONS AND ESTIMATING

STANDARD DETAILS
TYLA/ 146-R10

LIST OF DRAWINGS

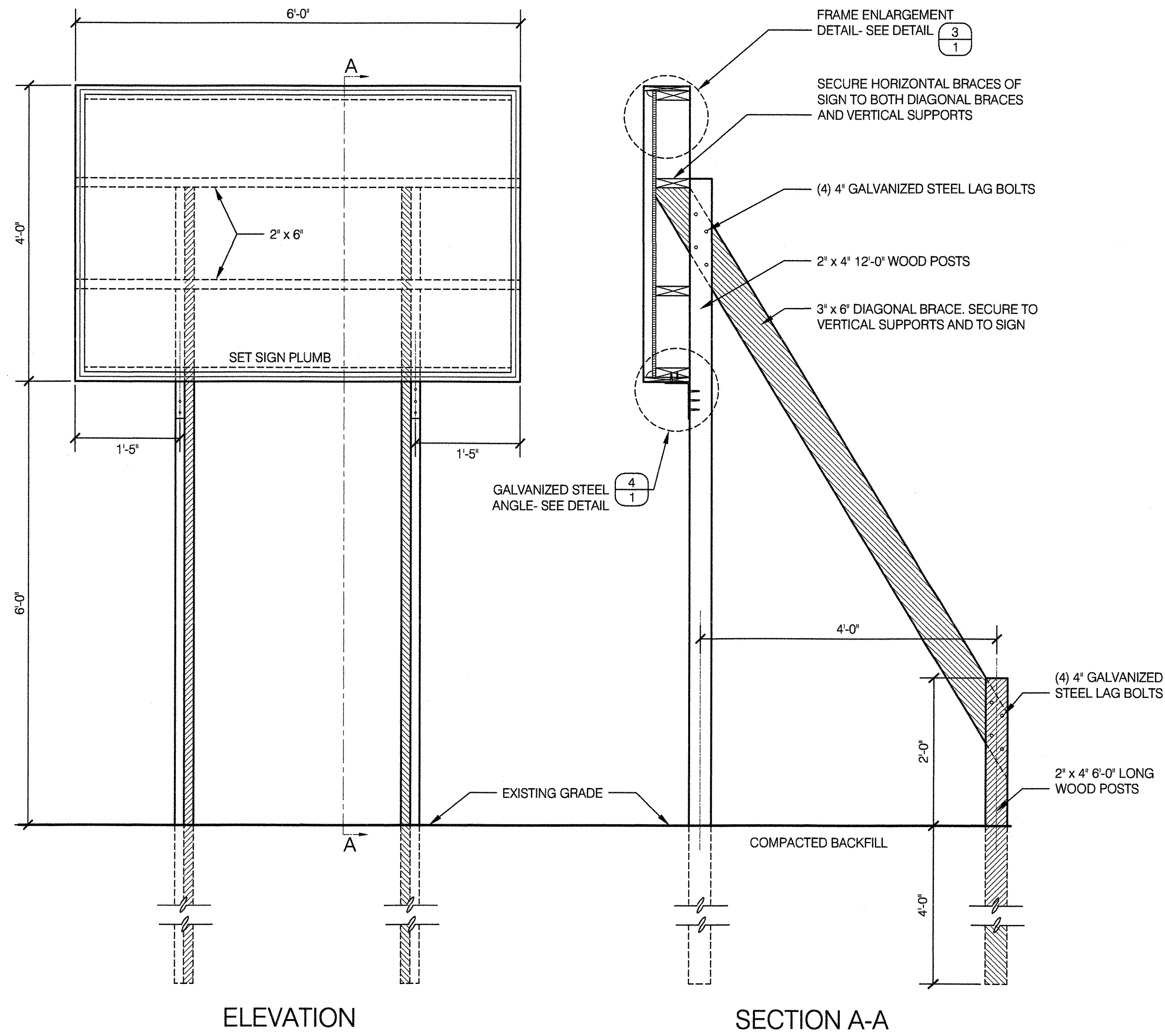
SHEET #	DRAWING TITLE	REVISION DATE	SHEET #	DRAWING TITLE	REVISION DATE
0	LIST OF DRAWINGS/ TABLE OF CONTENTS	9/1/2020	34	2'-6" HT./ 3'-0" HT. STEEL FENCE AND WICKET FENCE	9/1/2020
1	CONSTRUCTION SIGN	9/1/2020	35	4'-0" HT. STEEL FENCE	9/1/2020
2	DRAINAGE DETAILS - NO. 1	9/1/2020	36	7'-0" HT. STEEL FENCE AND GATES	9/1/2020
3	DRAINAGE DETAILS - NO. 2	9/1/2020	37	PIPE RAIL FENCE	9/1/2020
4	STORMWATER MANAGEMENT DETAILS	9/1/2020	38	STEEL GUIDE RAIL/ BOLLARD DETAILS	9/1/2020
5	PARKS LEAF MANHOLE AND CATCH BASIN COVERS	9/1/2020	39	TIMBER BARRIER RAIL/ BOLLARD DETAILS	9/1/2020
6	DELETED	9/1/2020	40	HOODED BASEBALL BACKSTOP	9/1/2020
7	WATER SUPPLY DETAILS	9/1/2020	41	ATHLETIC FIELD DETAILS	9/1/2020
8	RPZ AND WATER METER DETAIL FOR SITEWORK	9/1/2020	42	BALLFIELD LAYOUTS - NATURAL TURF	9/1/2020
9	DELETED	9/1/2020	43	BALLFIELD DETAILS	9/1/2020
10	DELETED	9/1/2020	44	BASKETBALL BACKSTOP - SINGLE POST	9/1/2020
11	DELETED	9/1/2020	45	BASKETBALL BACKSTOP - DOUBLE POST	9/1/2020
12	DRINKING FOUNTAIN - TYPE 'E'	9/1/2020	45A	BASKETBALL COURT LAYOUTS	9/1/2020
13	DRINKING FOUNTAIN - TYPE 'F'	9/1/2020	46	VOLLEYBALL LAYOUT AND DETAILS	9/1/2020
14	BOTTLE FILLER	9/1/2020	47	TENNIS COURT LAYOUT AND DETAILS	9/1/2020
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16	PAVEMENT DETAILS - NO. 2	9/1/2020	49	BOCCE COURT LAYOUT AND DETAILS	9/1/2020
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18	CURBS, RAMPS AND MISCELLANEOUS DETAILS	9/1/2020	51	FIELD EVENTS	9/1/2020
19	STEEL FLAGPOLE 45' HIGH	9/1/2020	52	PAINTED GAME LAYOUT	9/1/2020
20	FLAGPOLE FOUNDATIONS	9/1/2020	53	PAINTED PARK LEAF - HANDBALL BACKSTOP	9/1/2020
21	CONCRETE AND STEEL GAME TABLE	9/1/2020	54	PLAY SWING - 10'-0" HIGH	9/1/2020
22	CONCRETE GAME TABLE LAYOUT AND BICYCLE RACK	9/1/2020	55	SWING - 8'-0" HIGH	9/1/2020
23	BENCH, 1939 WORLD'S FAIR	9/1/2020	56	SWING - 7'-0" HIGH	9/1/2020
24	BENCH, TYPE 'B'	9/1/2020	57	SAFETY SURFACE DETAILS	9/1/2020
25	BENCH, TYPE 'B', BACKLESS	9/1/2020	58	PLANTING DETAILS	9/1/2020
26	BENCH, TYPE 'C' (SPORTS) W/ RPL SLATS	9/1/2020	59	TREE PROTECTION AND SEDIMENT CONTROL	9/1/2020
27	BENCH, 1964 WORLD'S FAIR	9/1/2020	60	GROUNDING AND SEALING METHODS	9/1/2020
28	PICNIC TABLE - FIXED	9/1/2020	61	ROADWAY TYPE BOXES	9/1/2020
29	CHAIN LINK FENCE - DETAILS	9/1/2020	62	GREENWAY PAVEMENT MARKINGS	9/1/2020
30	CHAIN LINK FENCE - SPECIAL CONDITIONS	9/1/2020	63	GREENWAY NYC DOT (MUTCD) SIGNAGE	9/1/2020
31	CHAIN LINK FENCE - SINGLE GATE	9/1/2020	64	ADA SIGNAGE AND PAVEMENT MARKINGS	9/1/2020
32	CHAIN LINK FENCE - DOUBLE GATE	9/1/2020	65	ADA HANDRAIL	TBD
33	STEEL FENCE DETAILS	9/1/2020			



Parks

1 CONSTRUCTION SIGN ON FRAME

SCALE 1" = 1'-0"

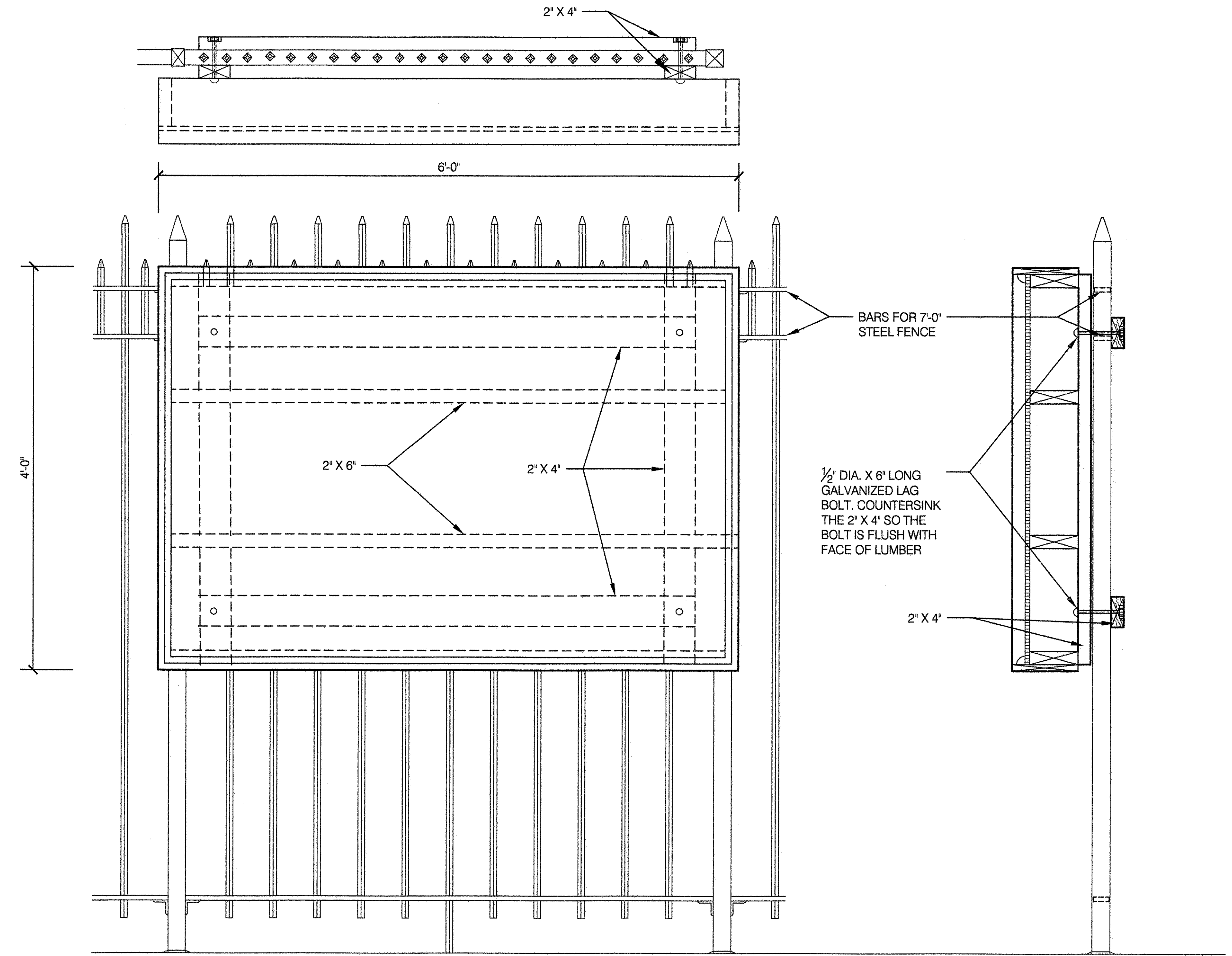


ELEVATION

SECTION A-A

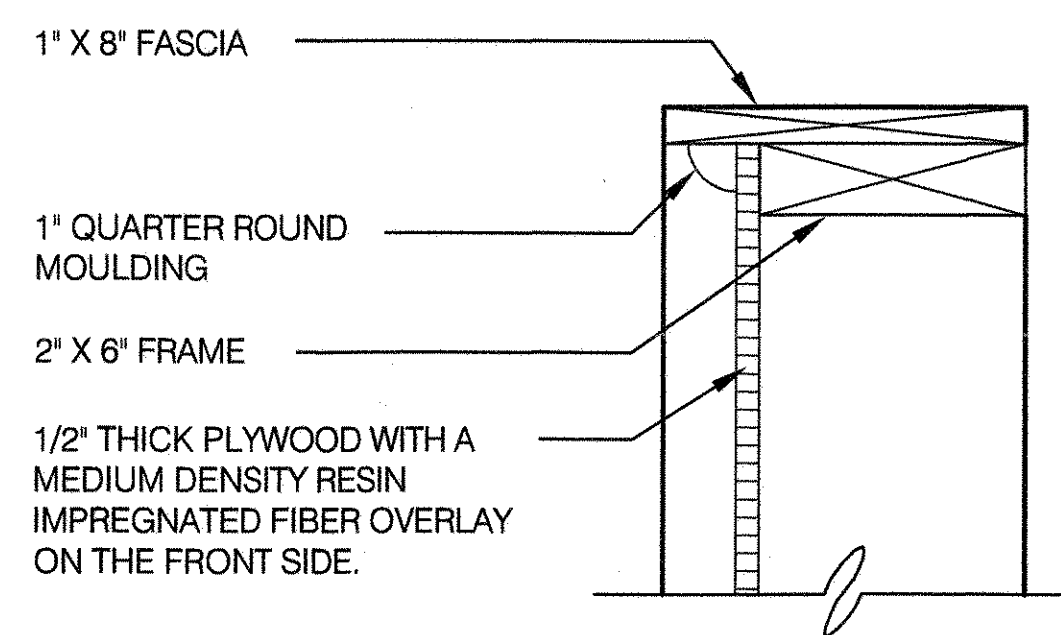
2 CONSTRUCTION SIGN ON FENCE

SCALE: NOT TO SCALE



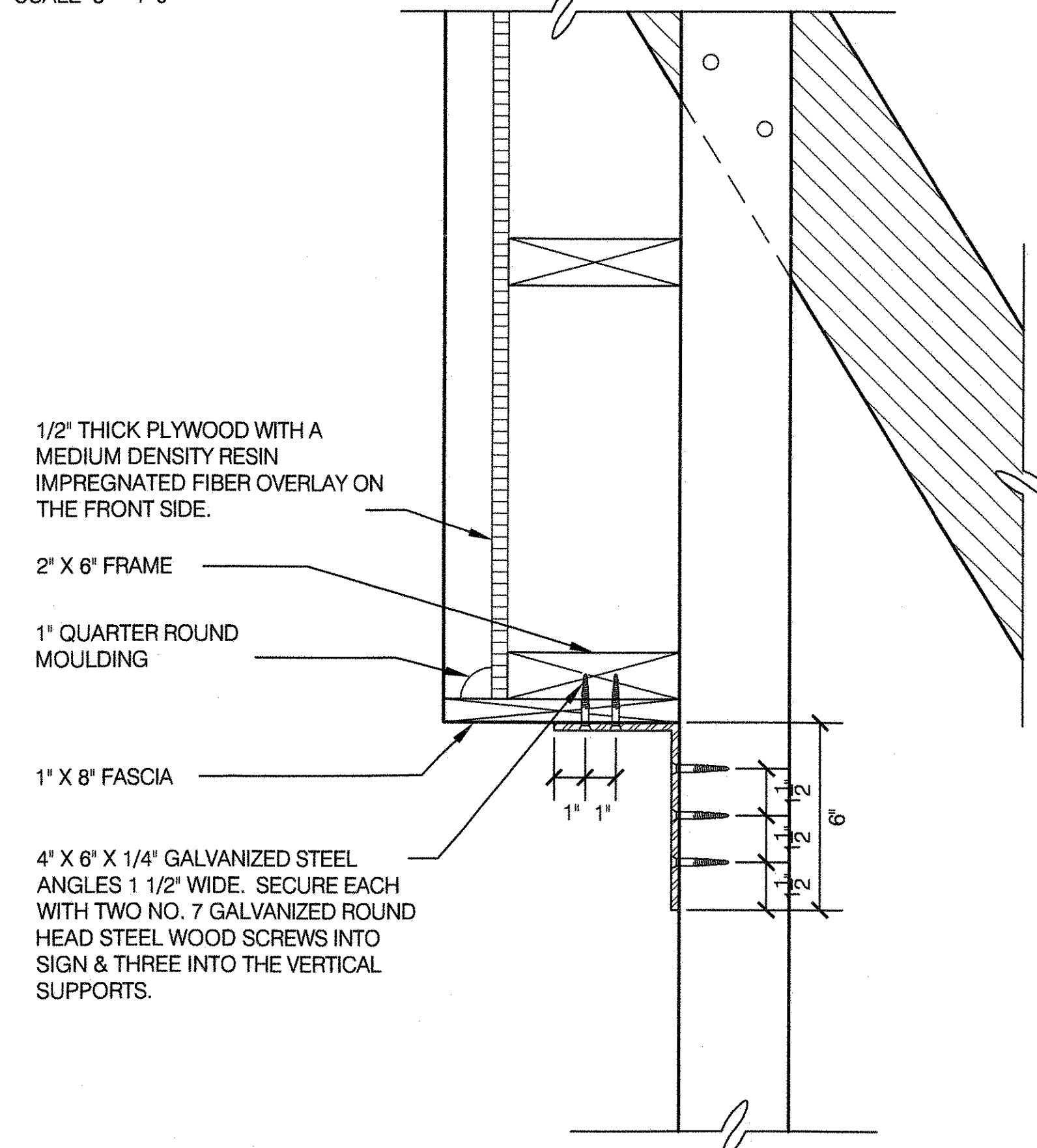
3 CONSTRUCTION SIGN FRAME ENLARGEMENT DETAIL

SCALE 3" = 1'-0"



4 CONSTRUCTION SIGN STEEL ANGLE DETAIL

SCALE 3" = 1'-0"



NOTES:

1. DPR WILL PROVIDE COMPACT DISC SHOWING TEXT AND OVERALL DIMENSIONS.



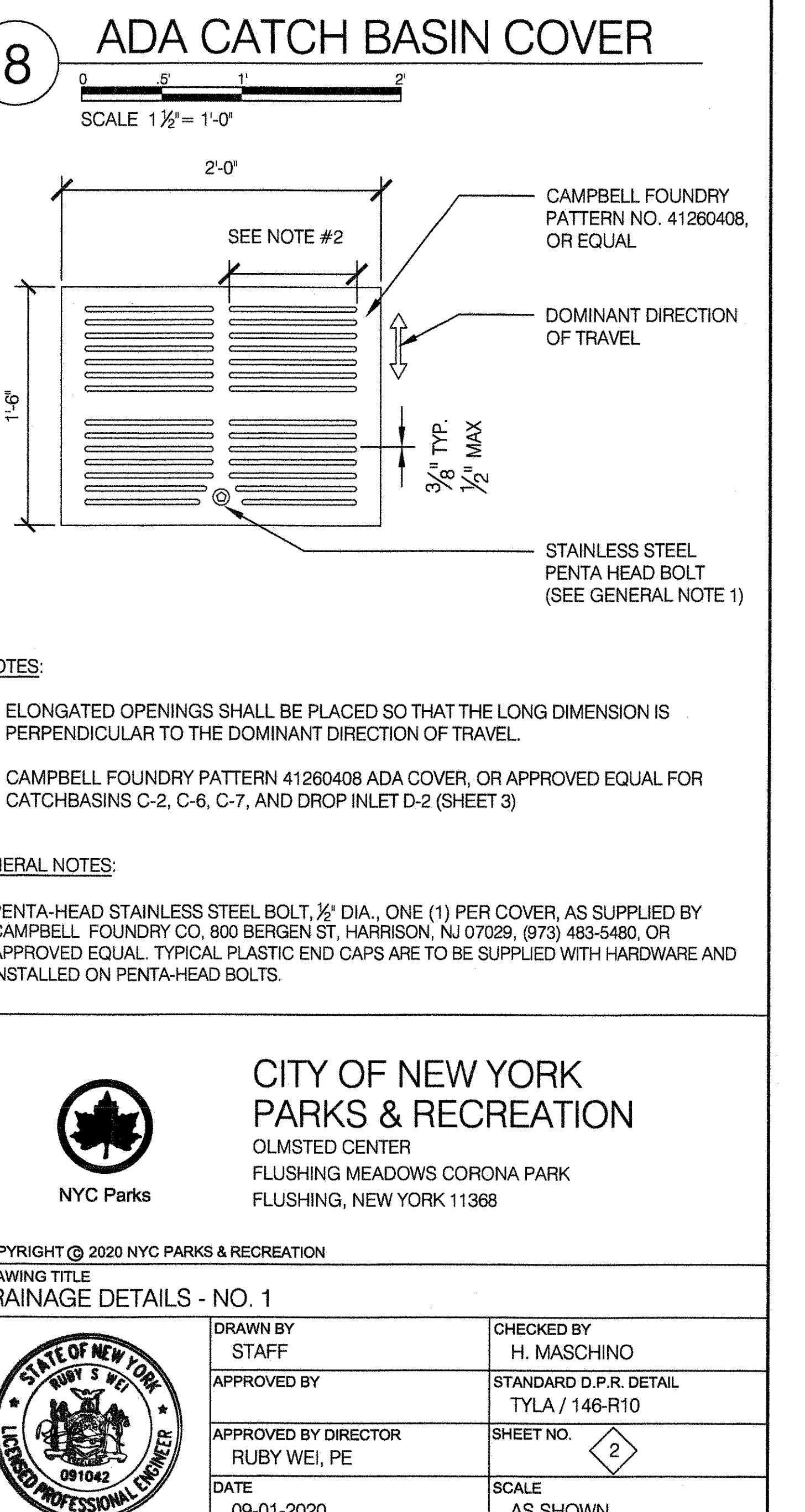
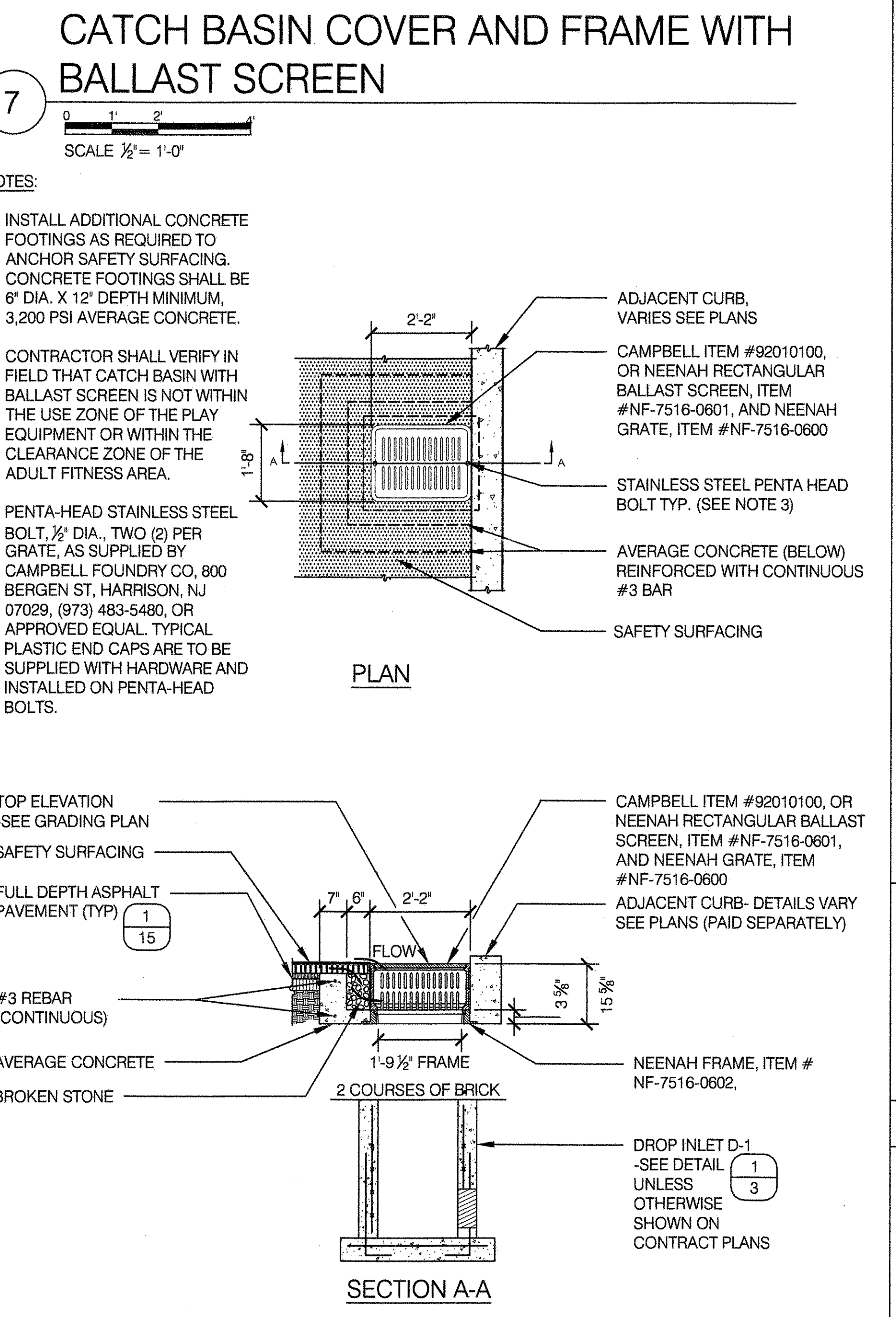
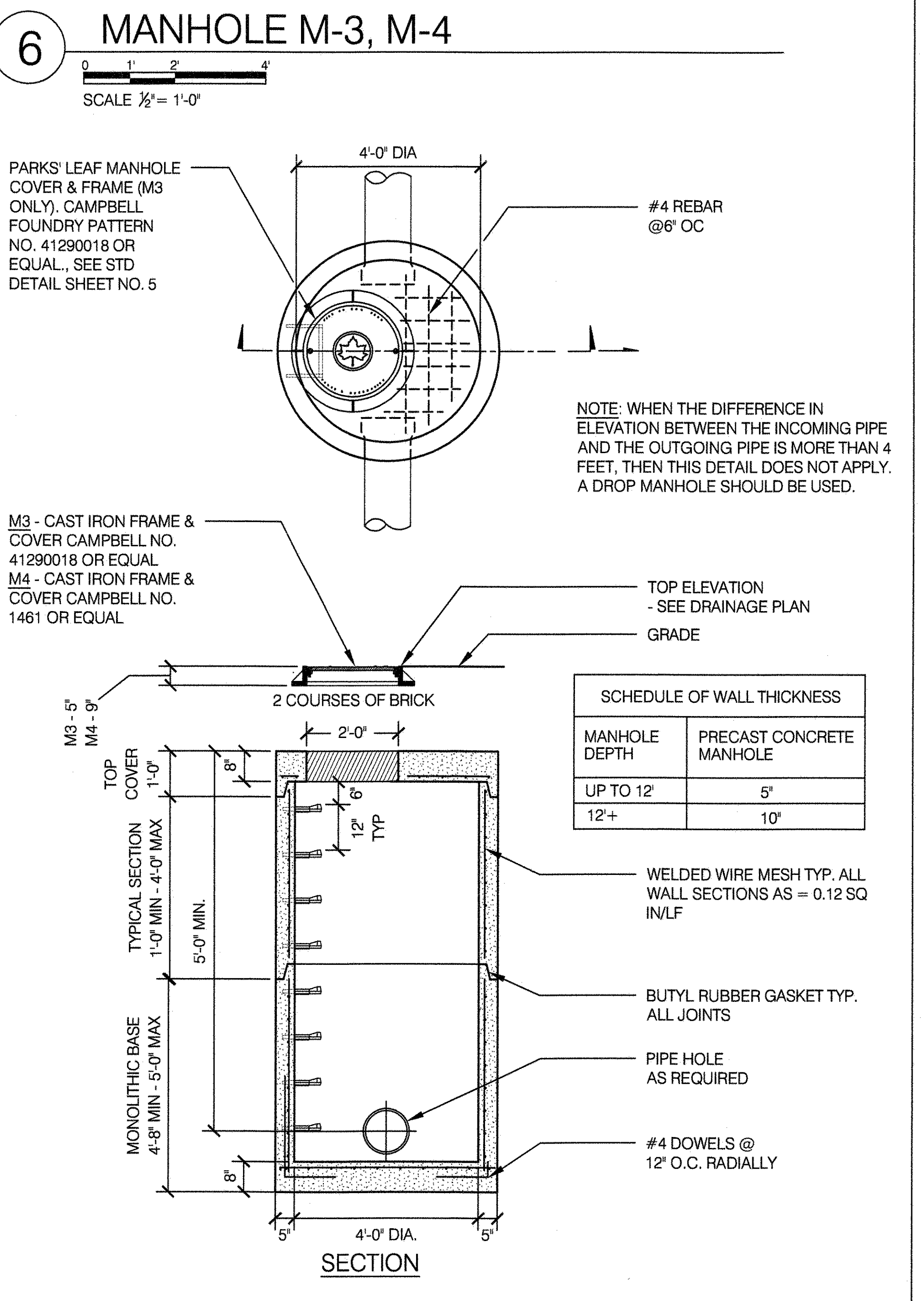
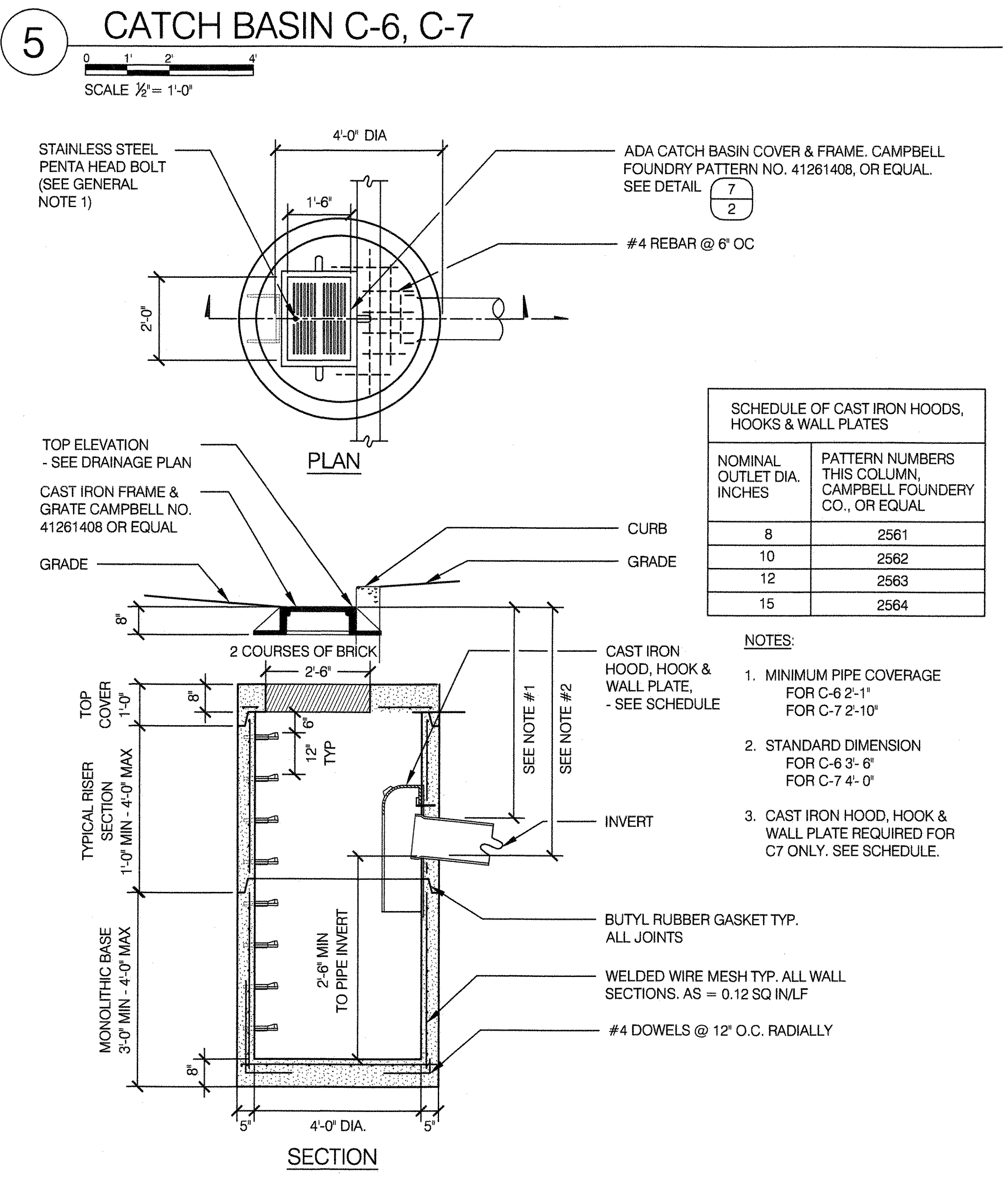
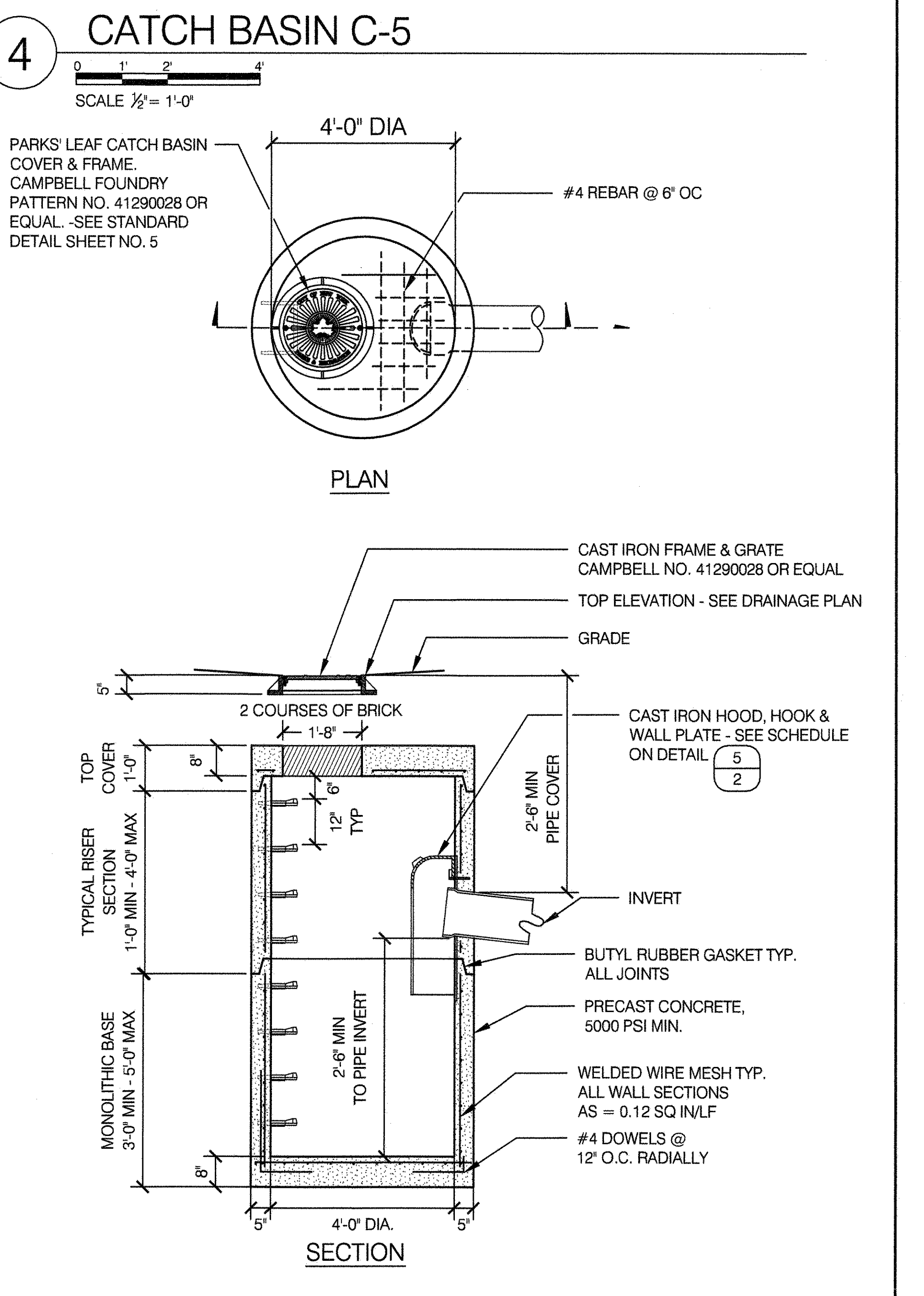
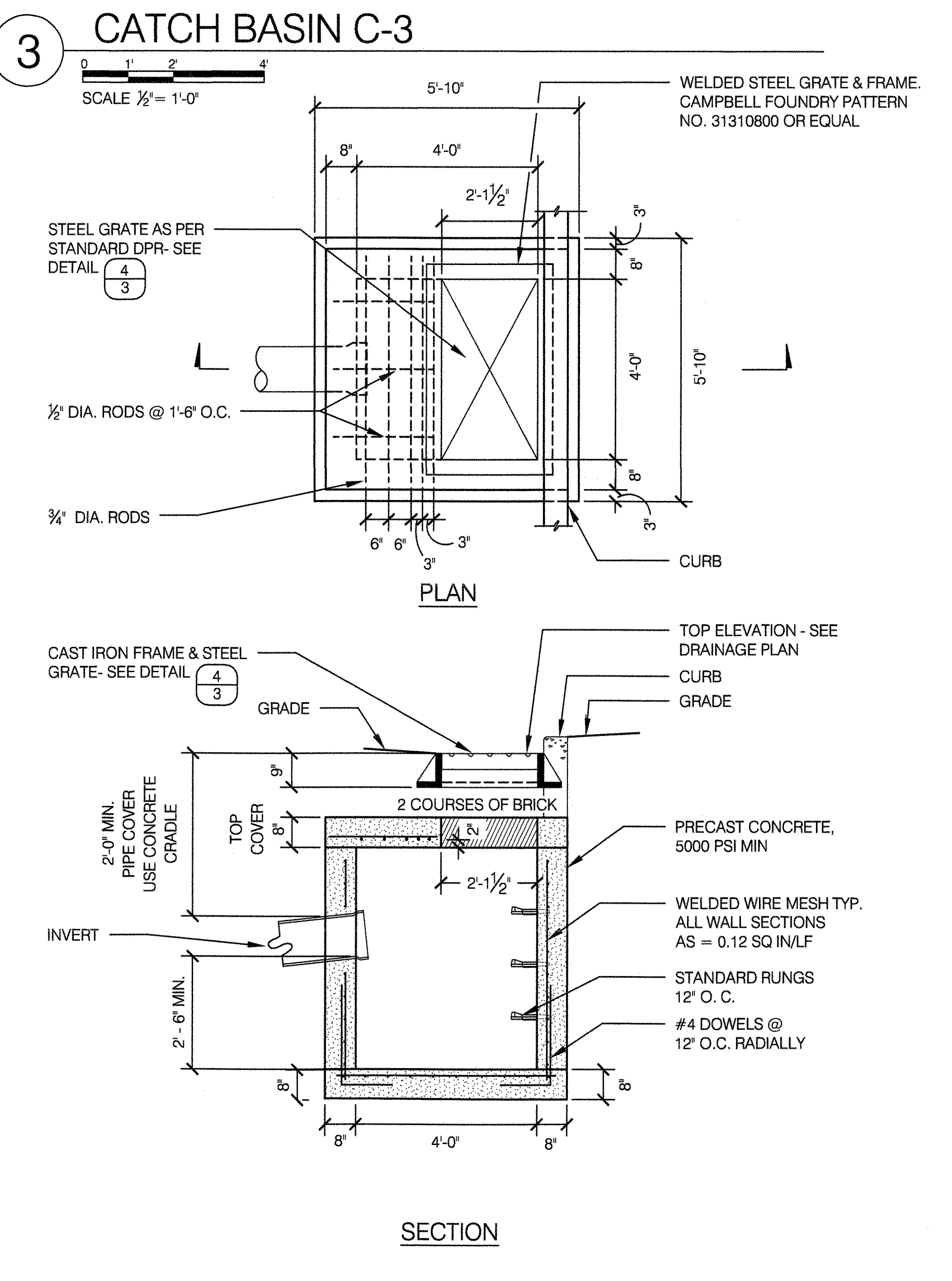
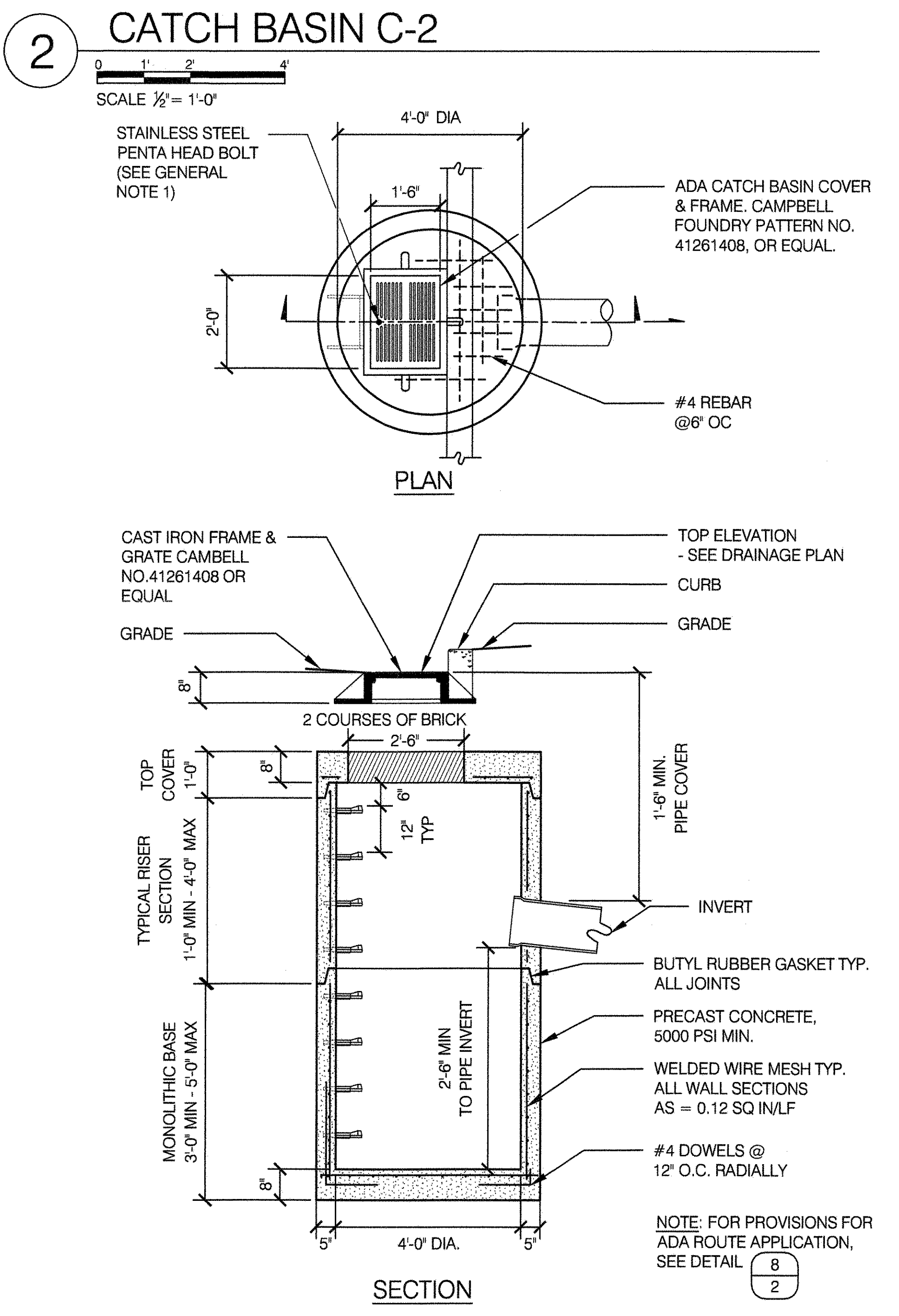
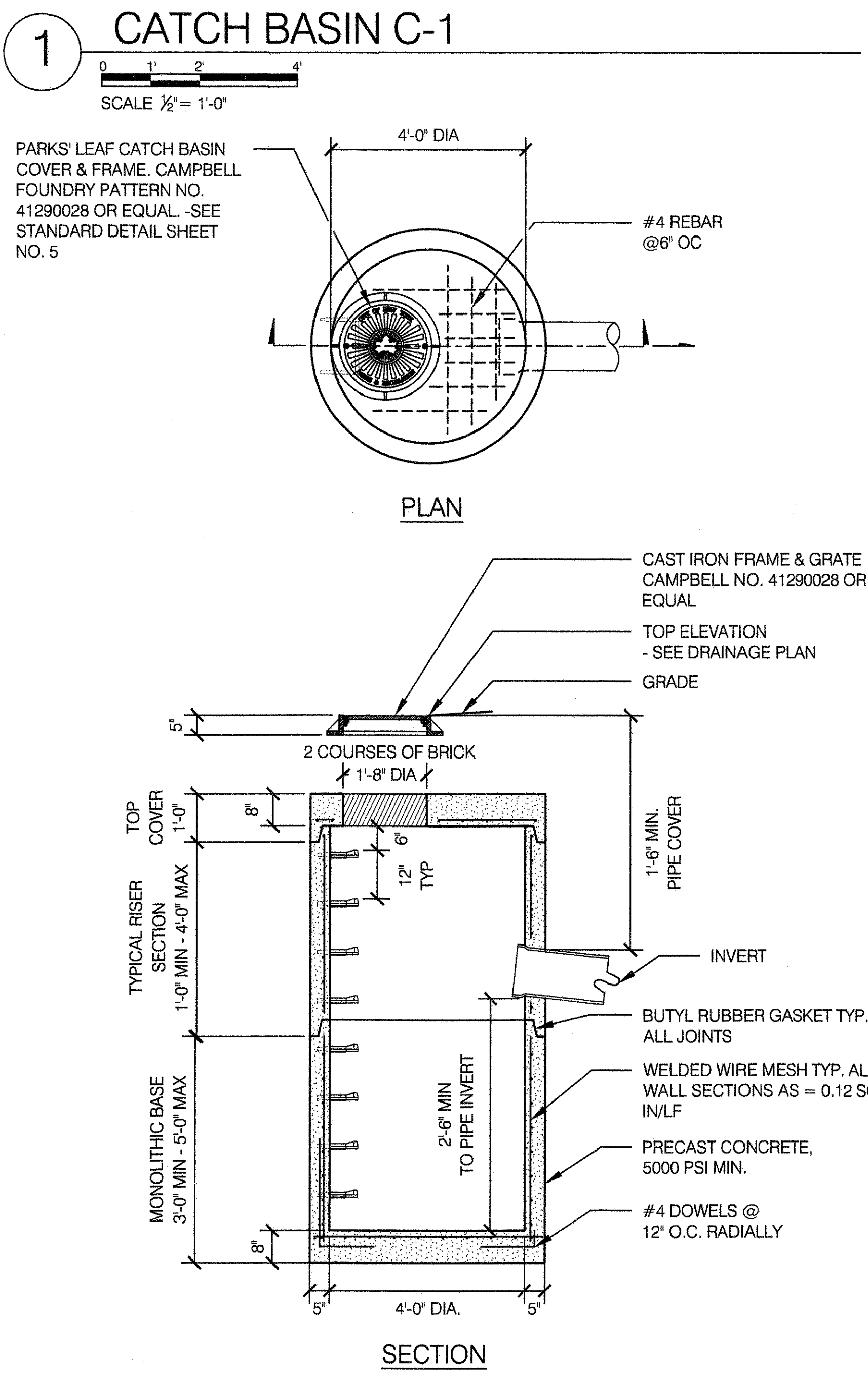
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PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

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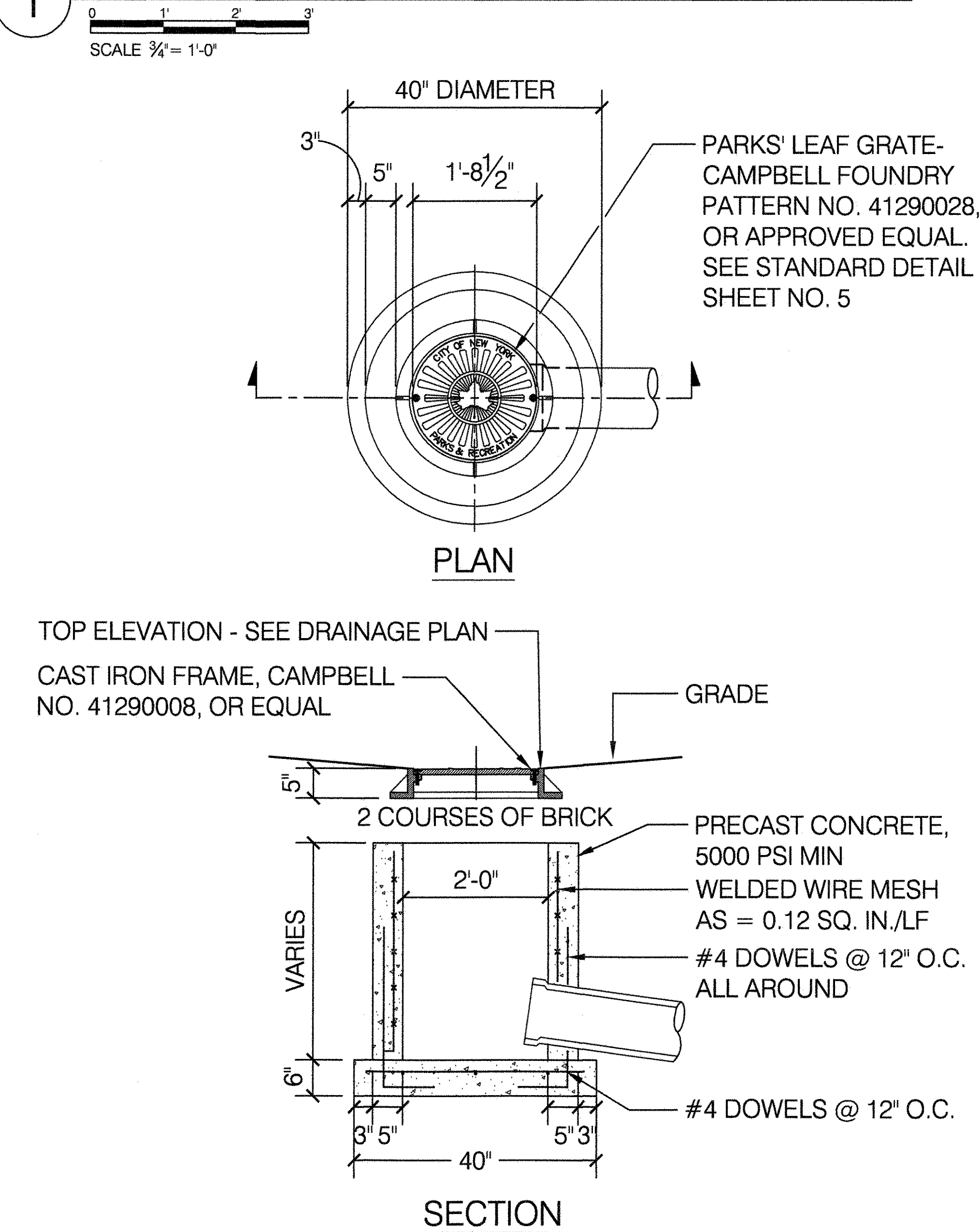
DRAWING TITLE
CONSTRUCTION SIGN



DRAWN BY STAFF	CHECKED BY RUBY WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL
DATE 09-01-2020	SHEET NO. 1
	SCALE AS SHOWN

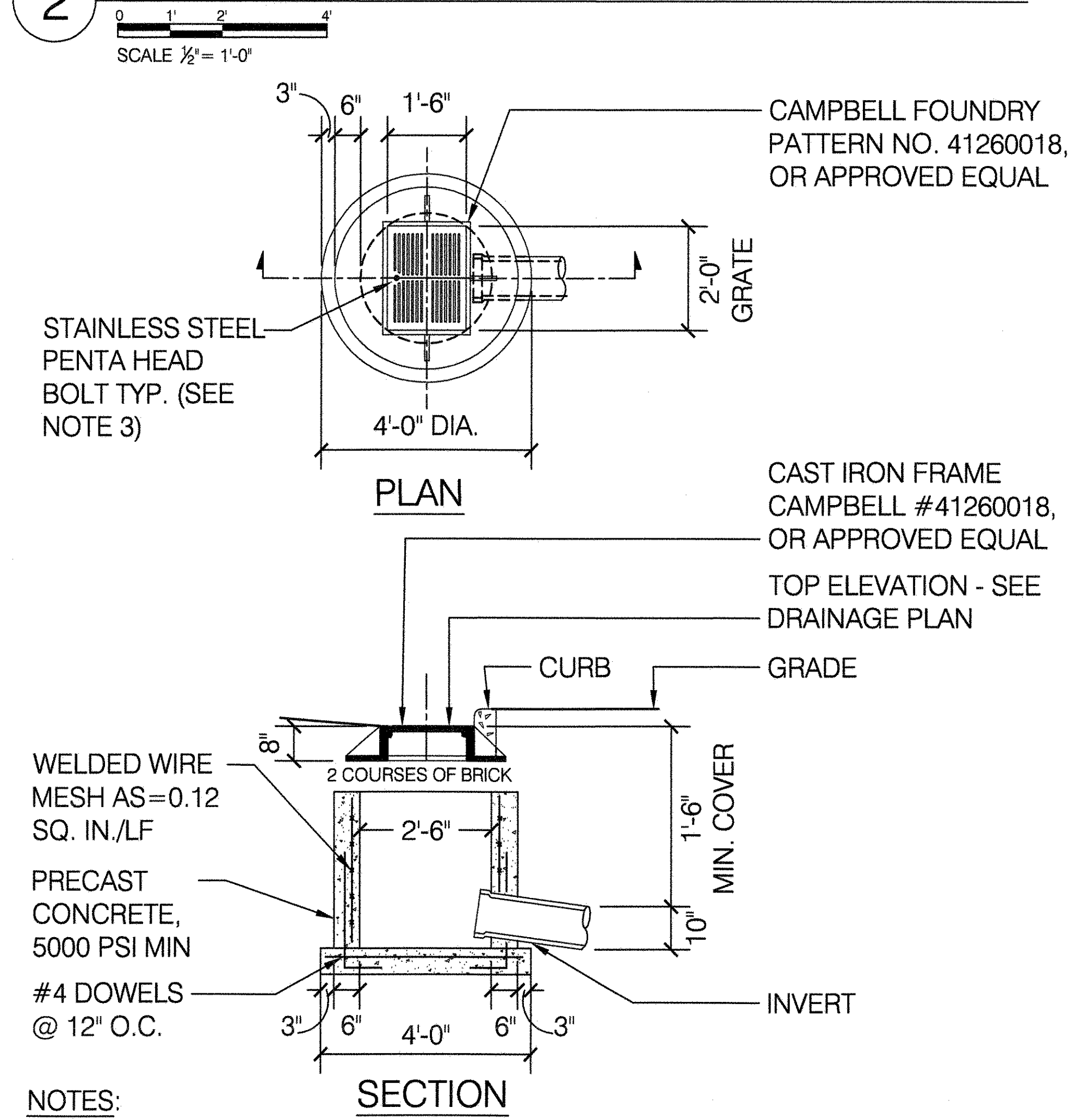


1 DROP INLET D-1



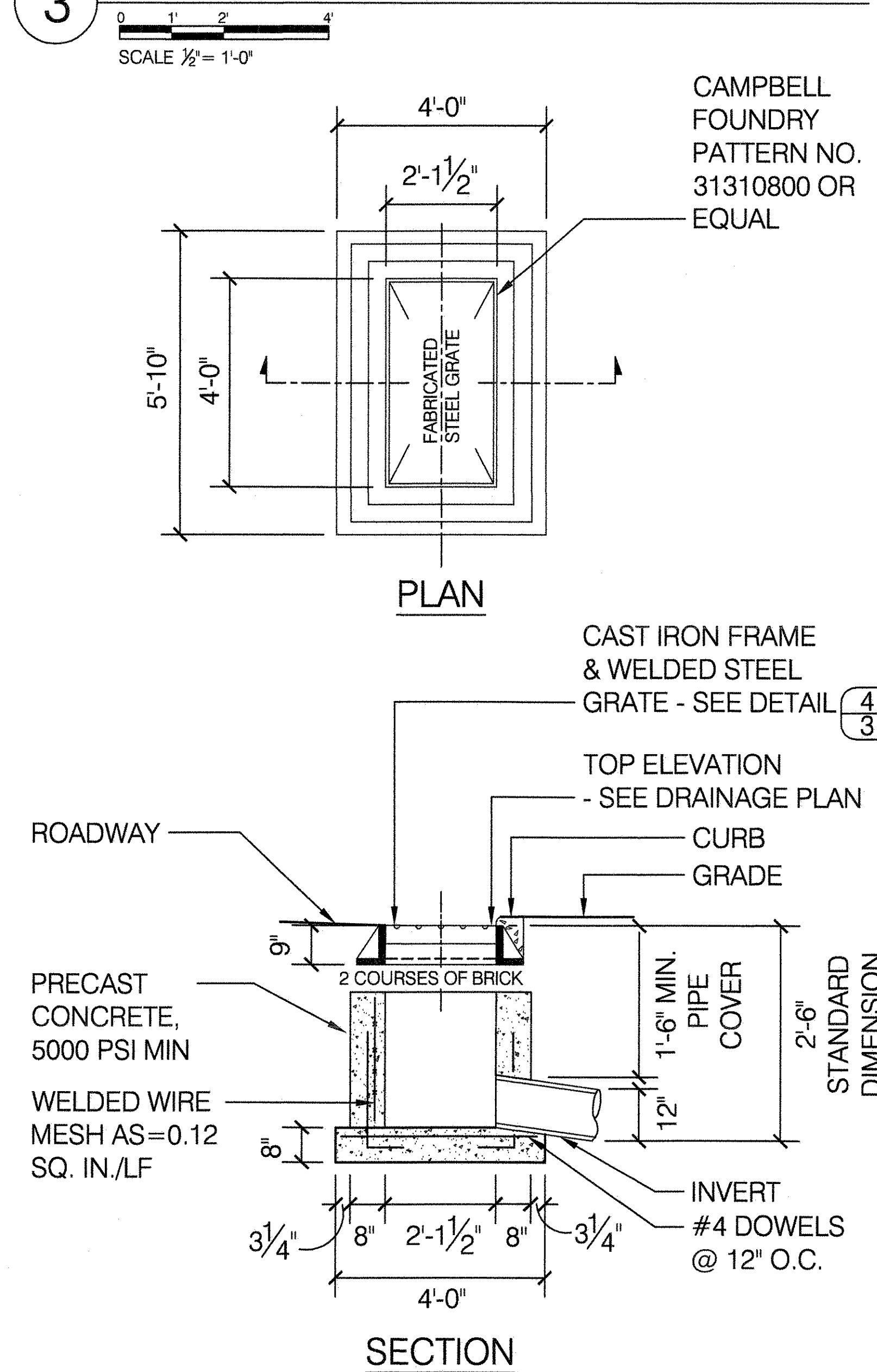
NOTE: FOR DROP INLETS D1, 10" PIPE PERMITTED ON RUNS OF 30 FEET OR LESS, OTHERWISE USE 12" DIAMETER PIPE AS THE MINIMUM SIZE.

2 DROP INLET D-2

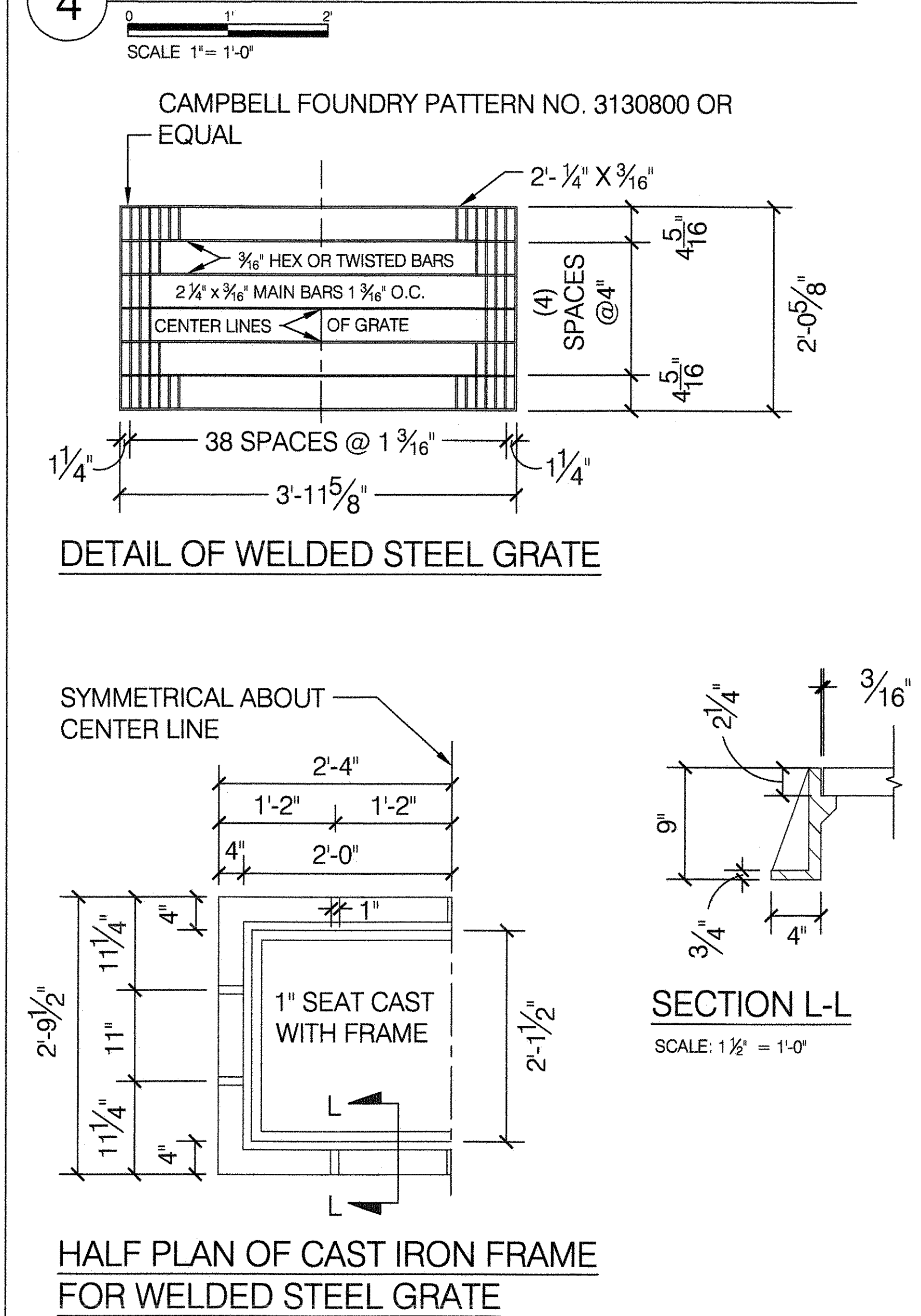


- NOTES:
- FOR DROP INLETS D2, 10" PIPE PERMITTED ON RUNS OF 30 FEET OR LESS, OTHERWISE USE 12" DIAMETER PIPE AS THE MINIMUM SIZE.
 - SEE SHEET 2, DETAIL 8 "ADA CATCH BASIN COVER" FOR PROVISIONS FOR ADA ROUTE APPLICATION.
 - PENTA-HEAD STAINLESS STEEL BOLT, 1/2" DIA., ONE (1) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO, 800 BERGEN ST, HARRISON, NJ 07029, (973) 483-5480, OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.

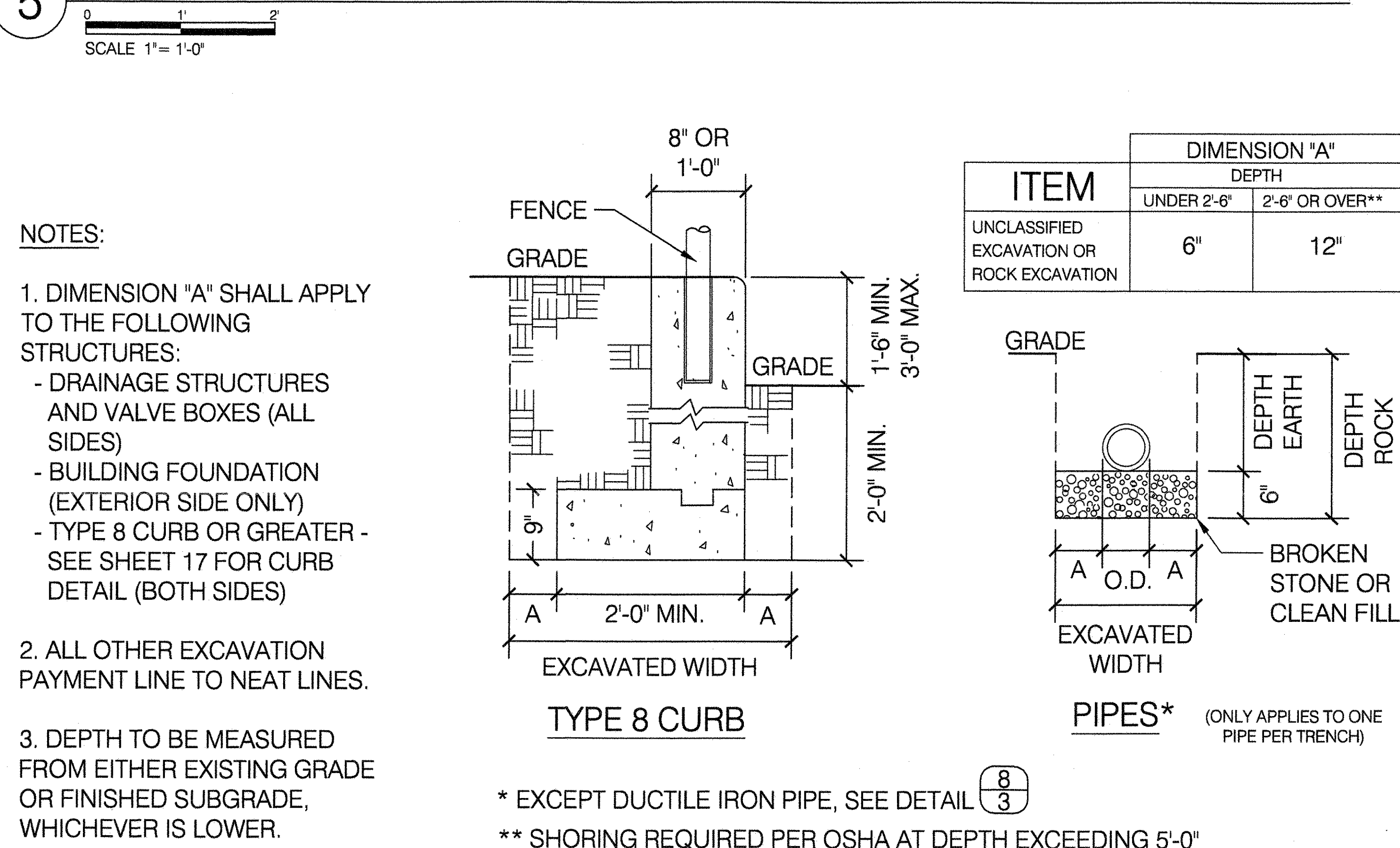
3 DROP INLET HIGHWAY DRAIN D-3



4 CAST IRON FRAME AND WELDED STEEL GRATE

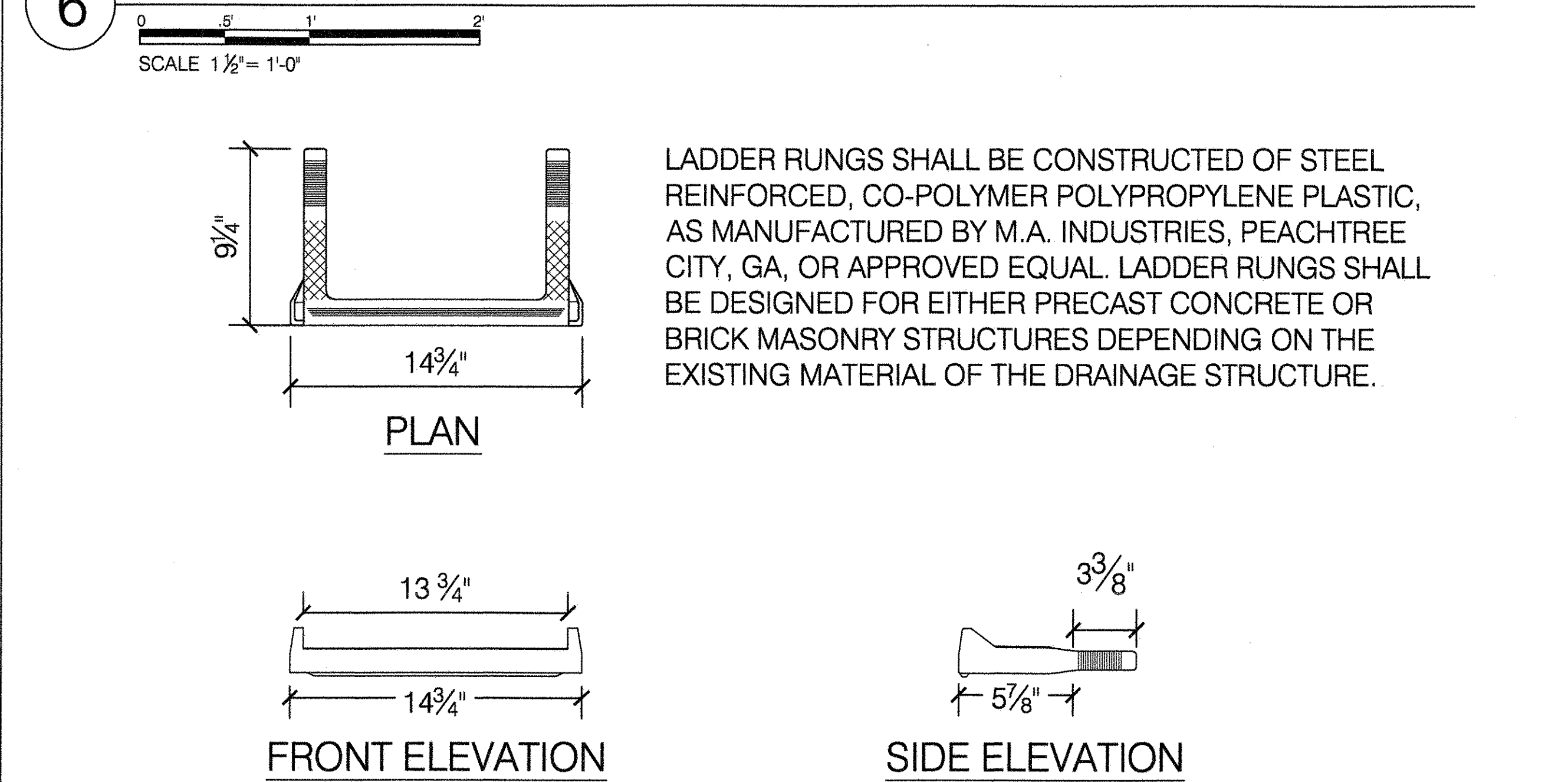


5 MAXIMUM PAYMENT LINES FOR EXCAVATION



- NOTES:
- DIMENSION "A" SHALL APPLY TO THE FOLLOWING STRUCTURES:
 - DRAINAGE STRUCTURES AND VALVE BOXES (ALL SIDES)
 - BUILDING FOUNDATION (EXTERIOR SIDE ONLY)
 - TYPE 8 CURB OR GREATER - SEE SHEET 17 FOR CURB DETAIL (BOTH SIDES)
 - ALL OTHER EXCAVATION PAYMENT LINE TO NEAT LINES.
 - DEPTH TO BE MEASURED FROM EITHER EXISTING GRADE OR FINISHED SUBGRADE, WHICHEVER IS LOWER.

6 STANDARD RUNGS FOR MANHOLES & CATCH BASINS

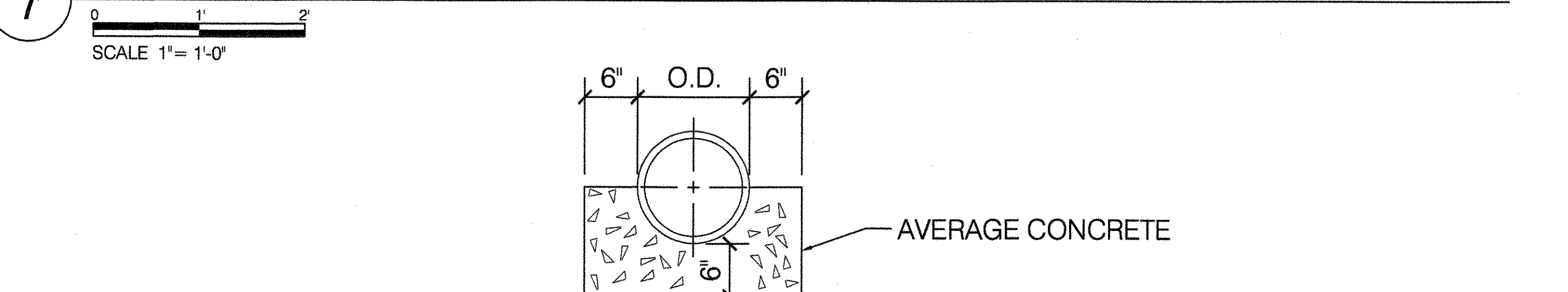


LADDER RUNGS SHALL BE CONSTRUCTED OF STEEL REINFORCED, CO-POLYMER POLYPROPYLENE PLASTIC, AS MANUFACTURED BY M.A. INDUSTRIES, PEACHTREE CITY, GA, OR APPROVED EQUAL. LADDER RUNGS SHALL BE DESIGNED FOR EITHER PRECAST CONCRETE OR BRICK MASONRY STRUCTURES DEPENDING ON THE EXISTING MATERIAL OF THE DRAINAGE STRUCTURE.

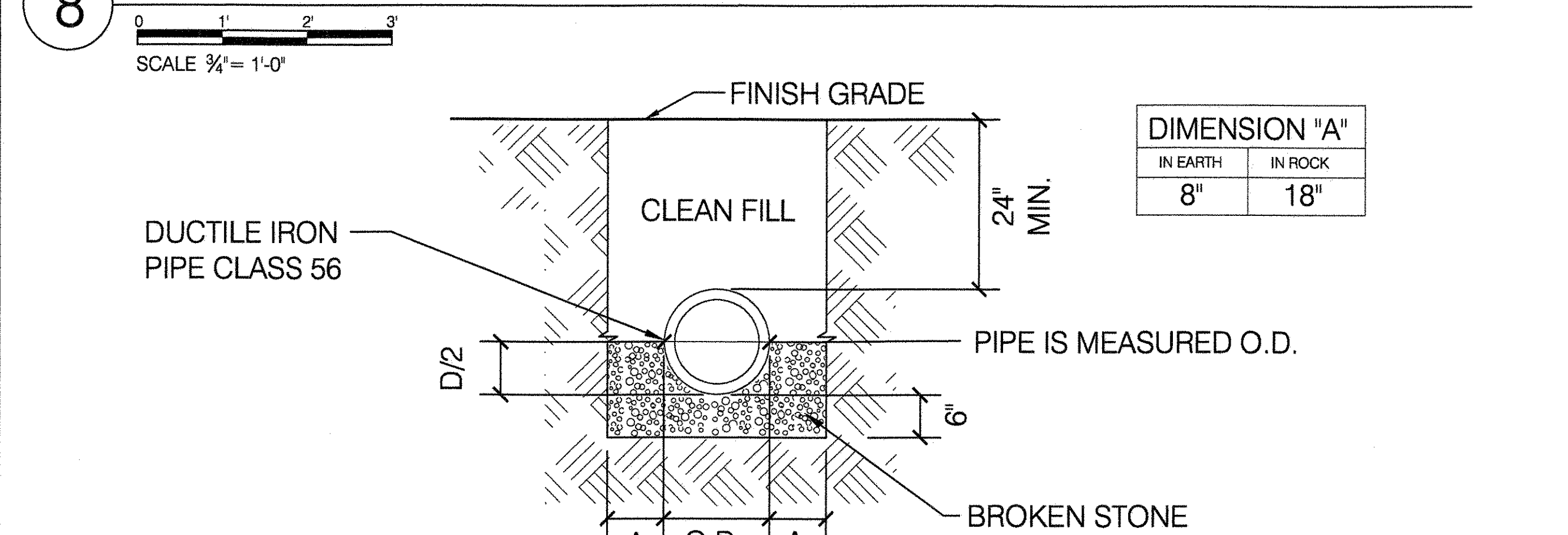
DRAINAGE, EXISTING UTILITIES & WATER SUPPLY NOTES

- LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. WHERE SEWER OR WATER LINES CROSS EXISTING UTILITIES, THE CONTRACTOR SHALL MAKE PRELIMINARY INVESTIGATIONS INCLUDING ALL NECESSARY EXCAVATION TO DETERMINE IF WORK CAN BE DONE AS DIRECTED BY THE ENGINEER.
- ALL EXISTING UTILITY LINES MAY NOT BE SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY UTILITY LINES HE MAY ENCOUNTER AND PROTECT ALL LINES.
- MINIMUM COVER FOR PIPE TO BE 1'-6" COMPUTED FROM FINISHED GRADE, EXCEPT WHERE OTHERWISE NOTED ON PLAN.
- MAXIMUM COVER TO BE DETERMINED BY DRAINAGE PITCH REQUIREMENTS AND THE LOCATION OF DRAINS.
- ALL WATER PIPE TO BE PITCHED 1/2 PERCENT MINIMUM, AS INDICATED BY ARROWS, WITHOUT POCKETS, TO DRY WELLS.
- EXACT LOCATIONS OF DRY WELLS TO BE AS DETERMINED BY THE ENGINEER.
- PROVIDE PIPE SUPPORTS UNDER WATER AND DRAIN PIPES IN UNSETTLED FILL AS DIRECTED BY THE ENGINEER.
- WHEN LAYING PIPE, WHEREVER POSSIBLE, AVOID ALL TREES, BENCHES AND FOOTINGS. WHERE NECESSARY, PROVIDE PIPE SLEEVES THROUGH WALLS, TREE PITS AND/OR FOOTINGS.
- ALL CONNECTIONS TO CITY WATER MAINS ARE TO BE MADE IN ACCORDANCE WITH PERMITS ISSUED BY THE DIVISION OF PERMITTING AND CONNECTION, BUREAU OF WATER AND SEWER OPERATION.
- THE LOCATION OF DRAINAGE BASINS TO BE AT THE LOW POINT OF THEIR RESPECTIVE AREAS AS DETERMINED IN THE FIELD. LOCATIONS ON PLAN ARE DIAGRAMATIC AND SHALL NOT BE SCALED.
- FOR DRAINAGE AND WATER SUPPLY SEE GRADING AND UTILITY PLAN.
- ALL CONCRETE SHOWN TO BE 'AVERAGE' (3,200 PSI) CONCRETE.

7 CONCRETE CRADLE



8 BEDDING FOR DUCTILE IRON PIPE



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NYC Parks

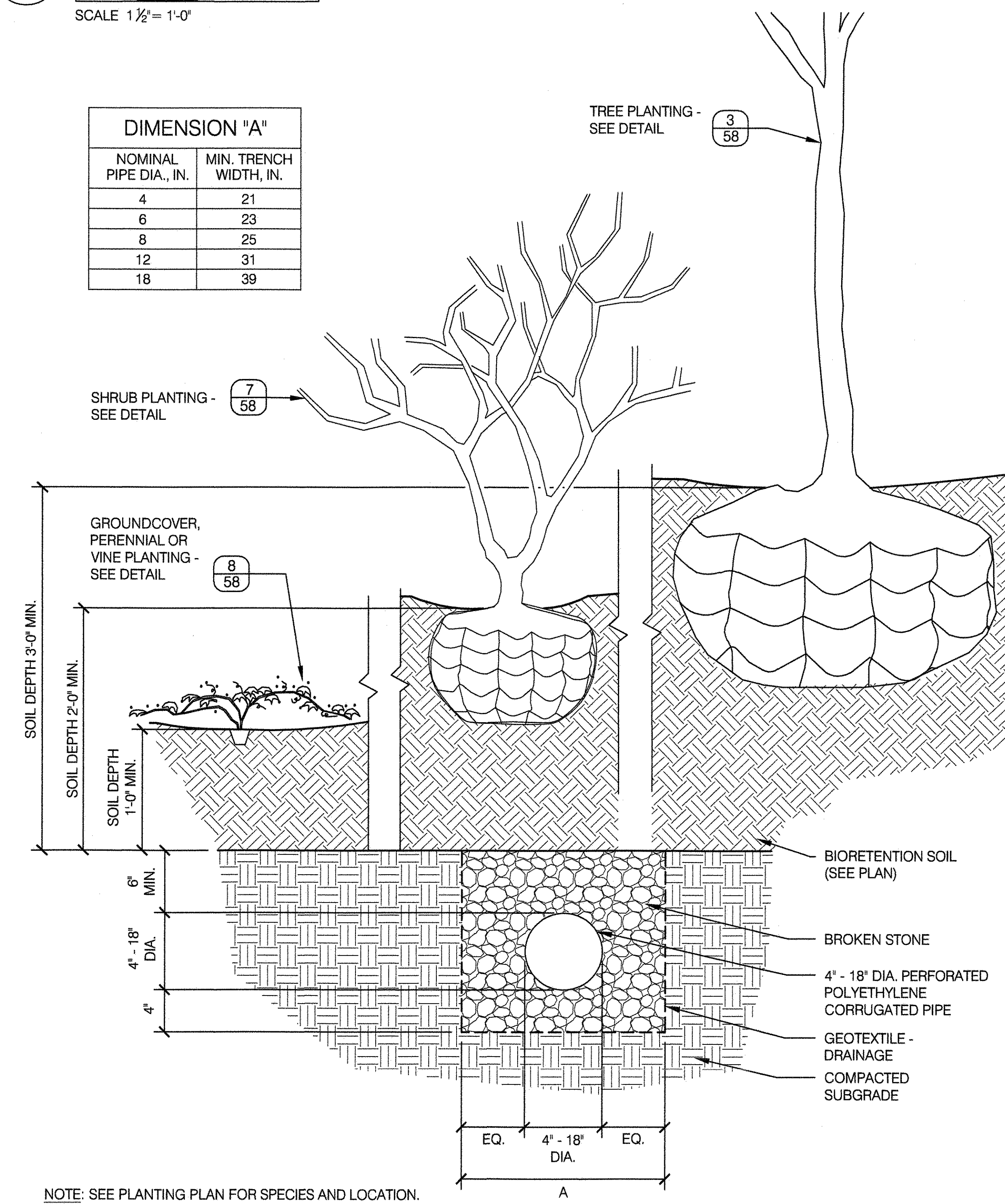
COPYRIGHT © 2020 NYC PARKS & RECREATION
 DRAWING TITLE
DRAINAGE DETAILS - NO. 2

DRAWN BY STAFF	CHECKED BY H. MASCHINO
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR 091042	SHEET NO. 3
DATE 09-01-2020	SCALE AS SHOWN

1 RAIN GARDEN WITH PERFORATED PIPE

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

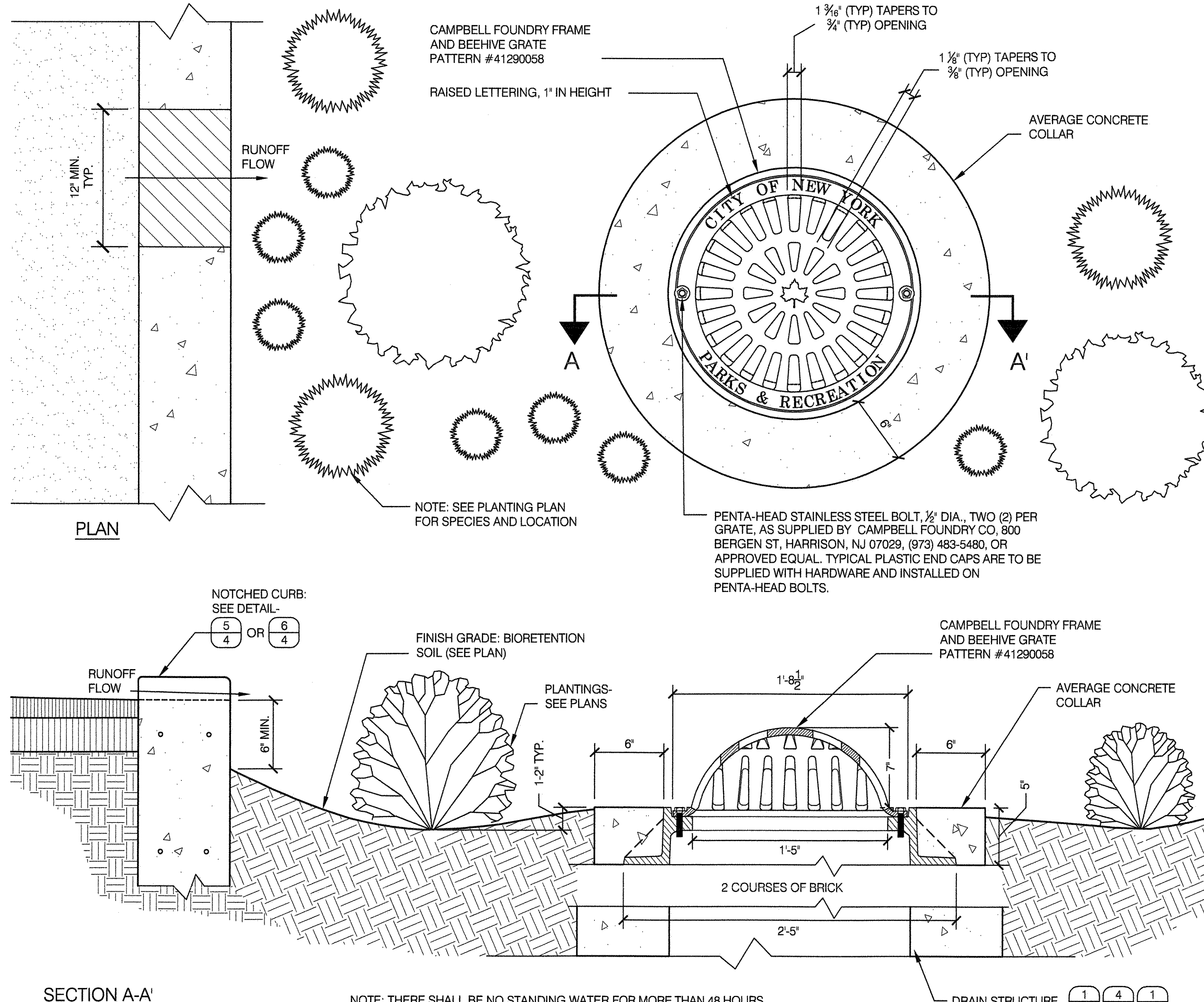
DIMENSION "A"	
NOMINAL PIPE DIA., IN.	MIN. TRENCH WIDTH, IN.
4	21
6	23
8	25
12	31
18	39



NOTE: SEE PLANTING PLAN FOR SPECIES AND LOCATION.

2 BEEHIVE GRATE

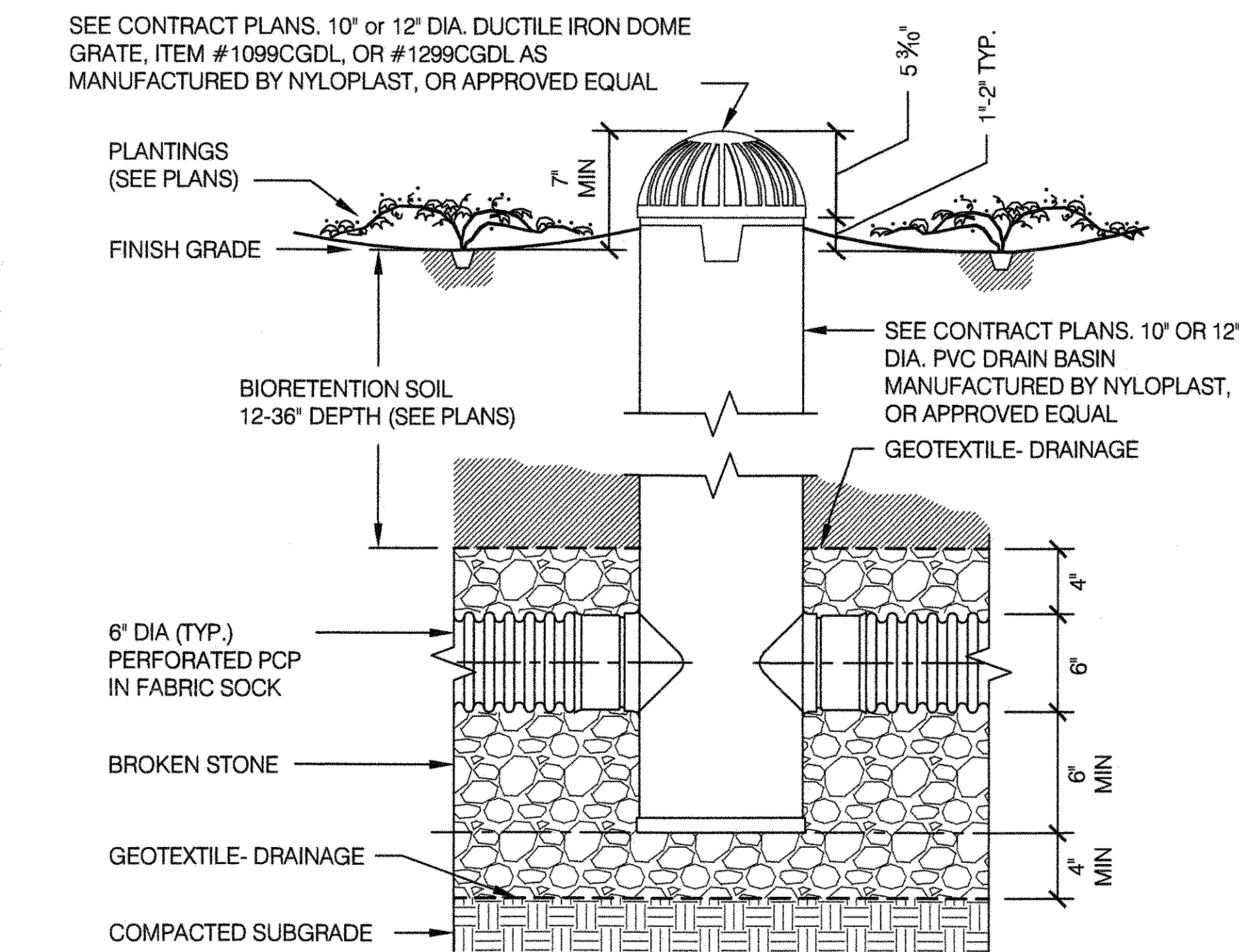
SCALE 2" = 1'-0"



NOTE: THERE SHALL BE NO STANDING WATER FOR MORE THAN 48 HOURS.

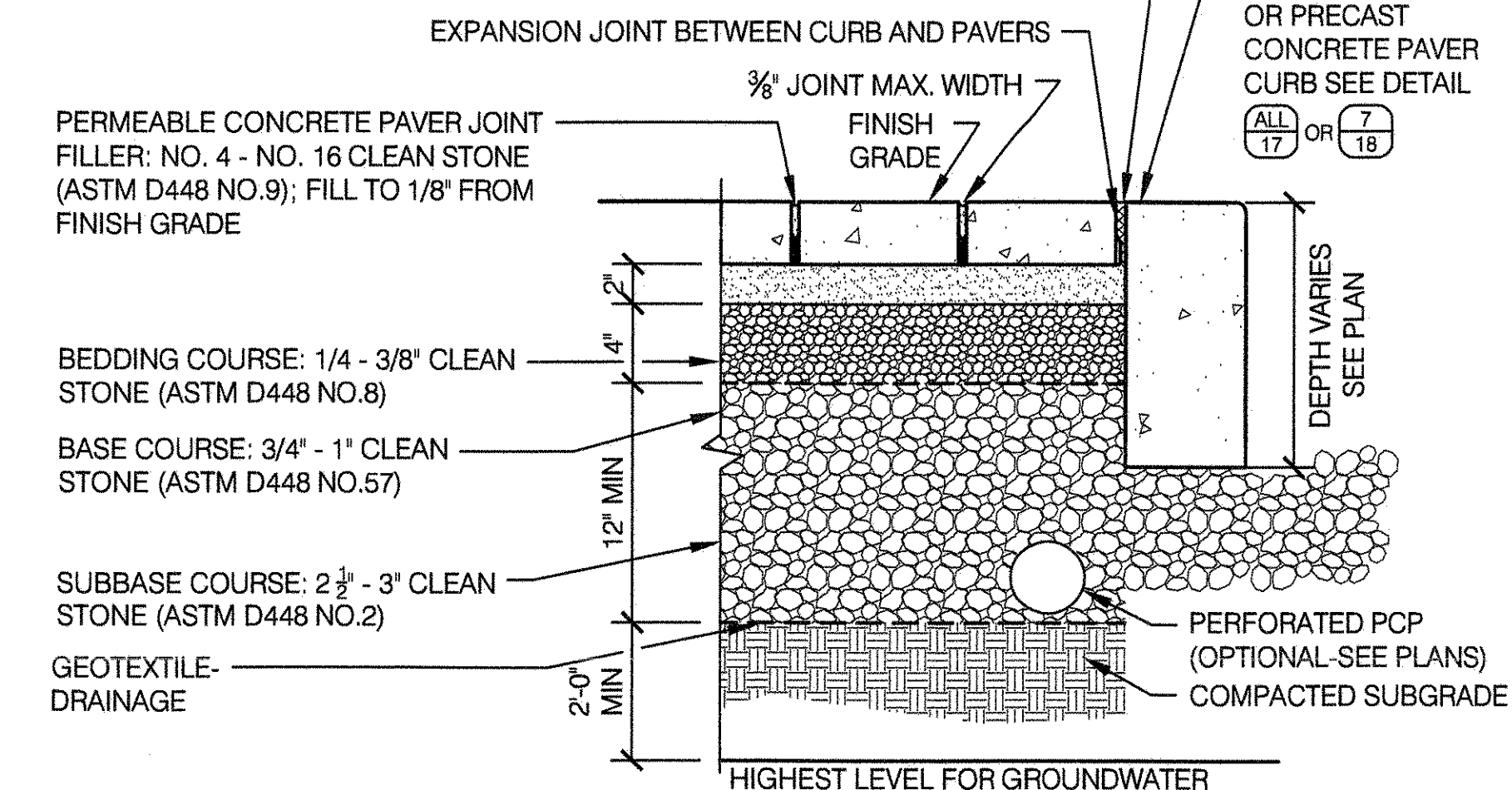
3 DRAIN BASIN WITH DOME GRATE

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



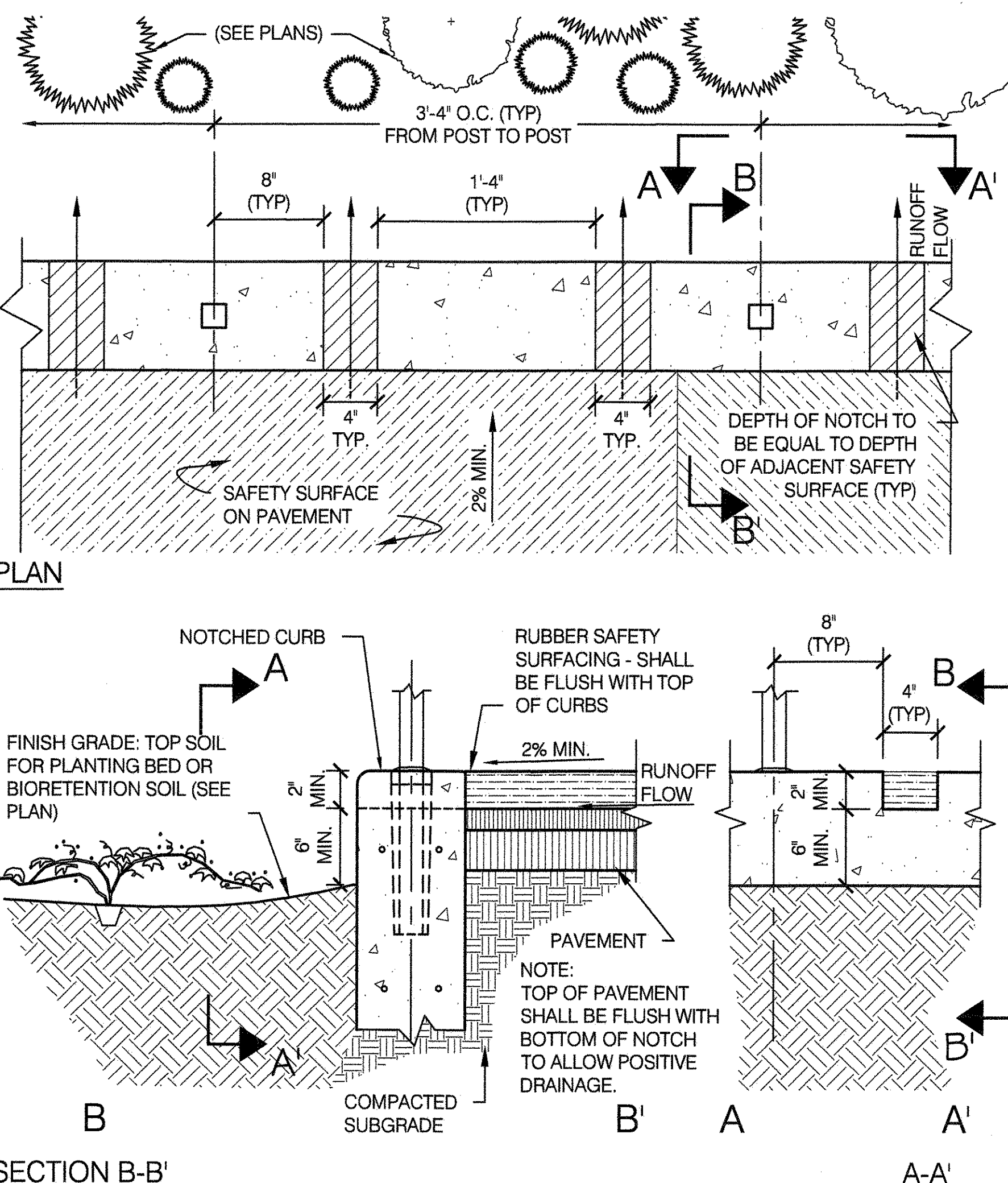
4 PERMEABLE CONC. PAVERS ON STONE BASE

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



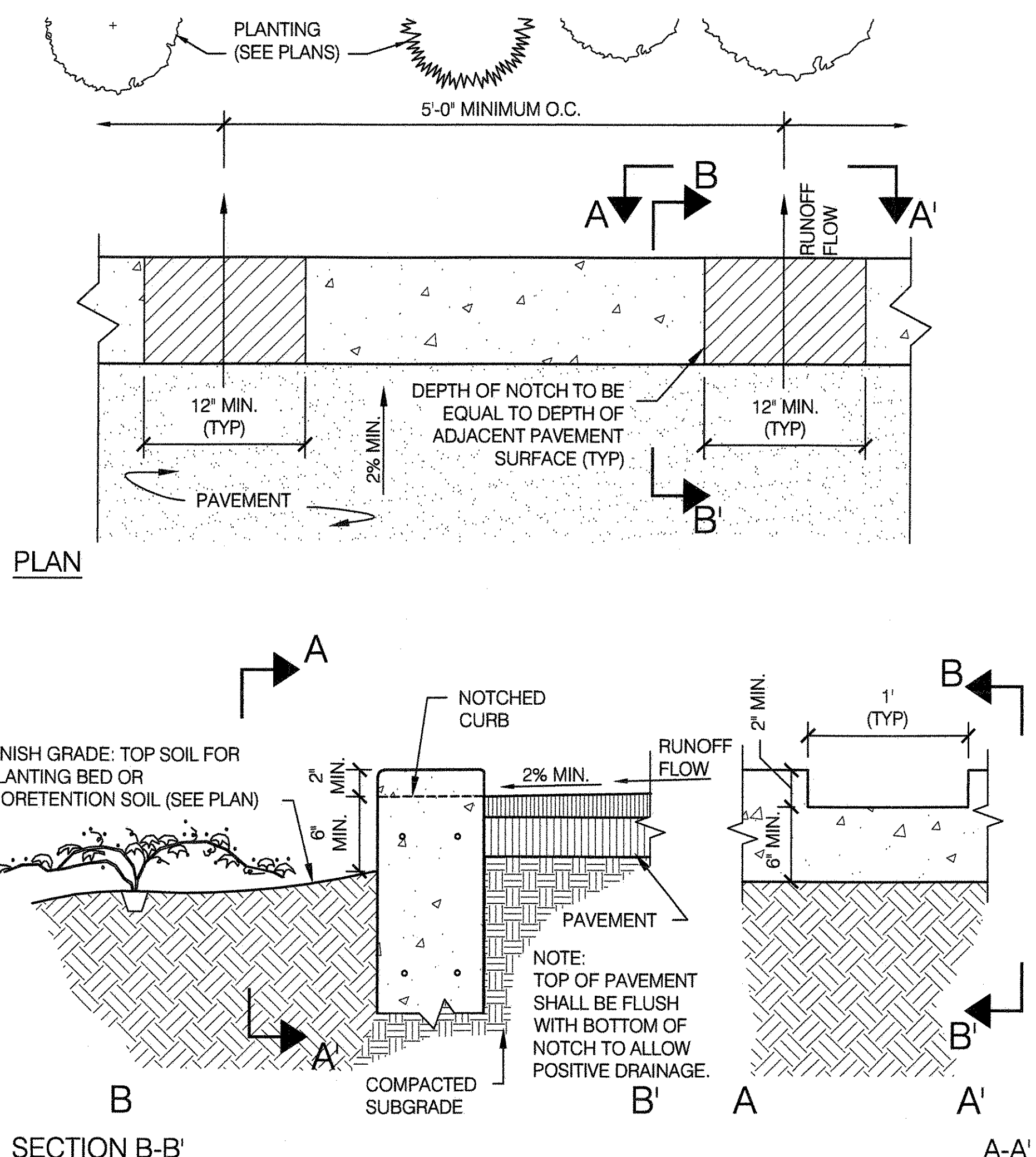
5 NOTCHED CURB ADJACENT TO SAFETY SURFACE

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



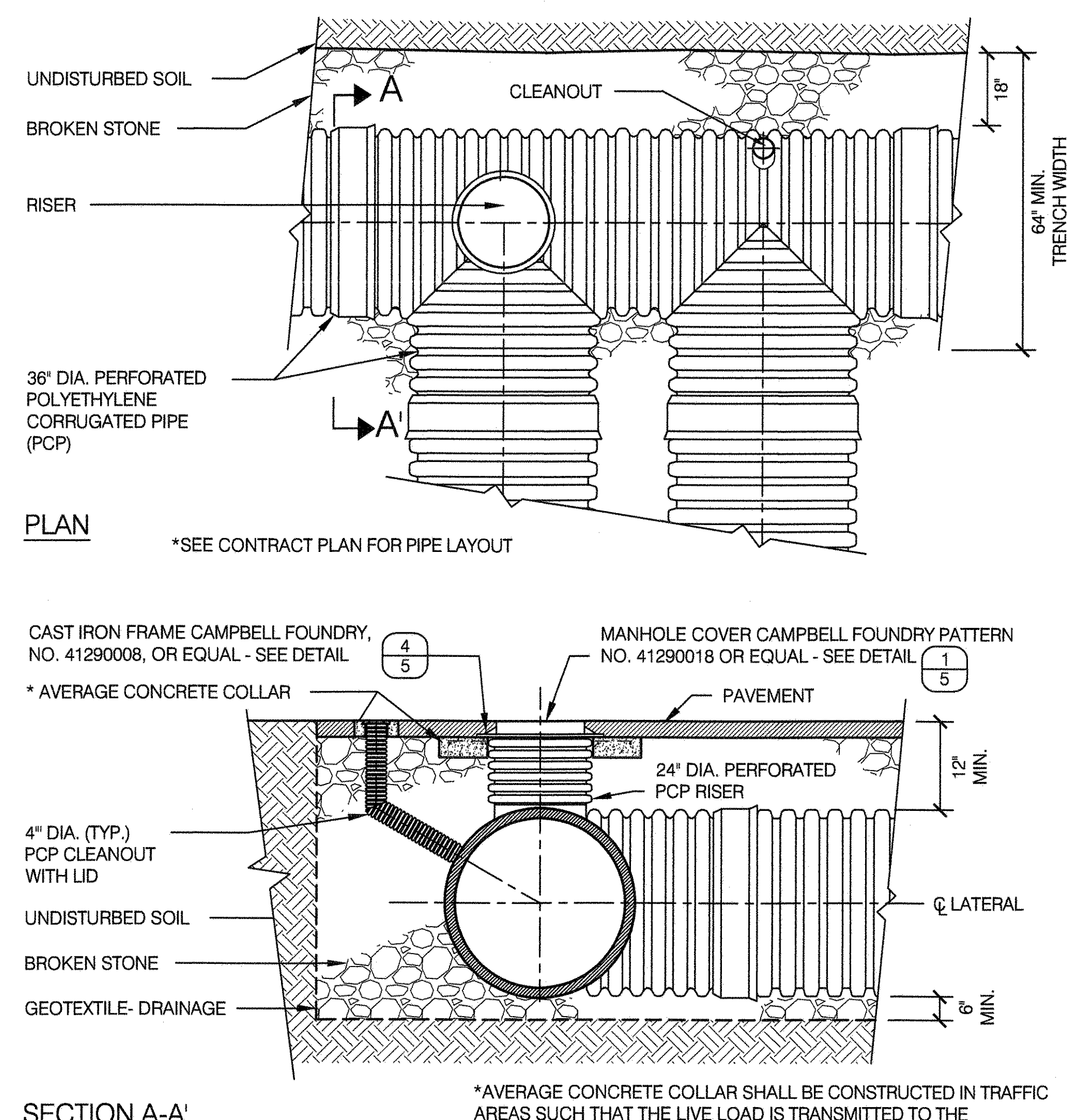
6 NOTCHED CURB ADJACENT TO PAVEMENT

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



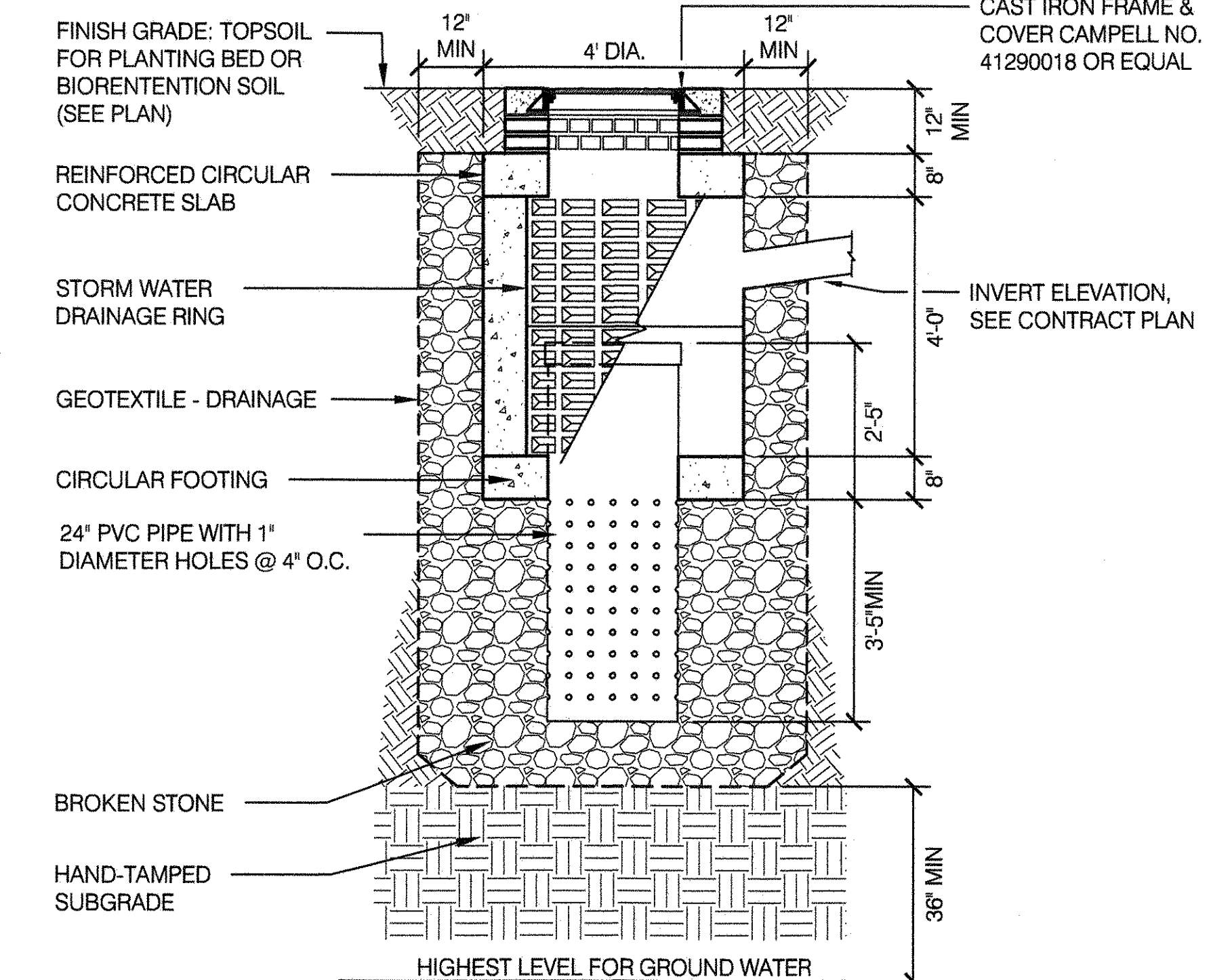
7 LARGE DIAMETER PERFORATED PIPE RETENTION

SCALE 1/2" = 1'-0"



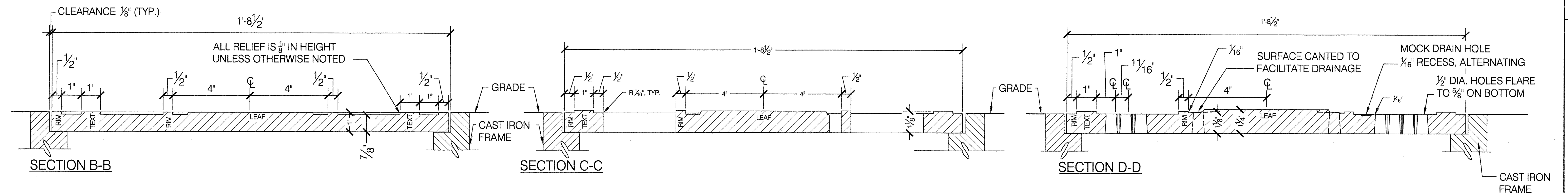
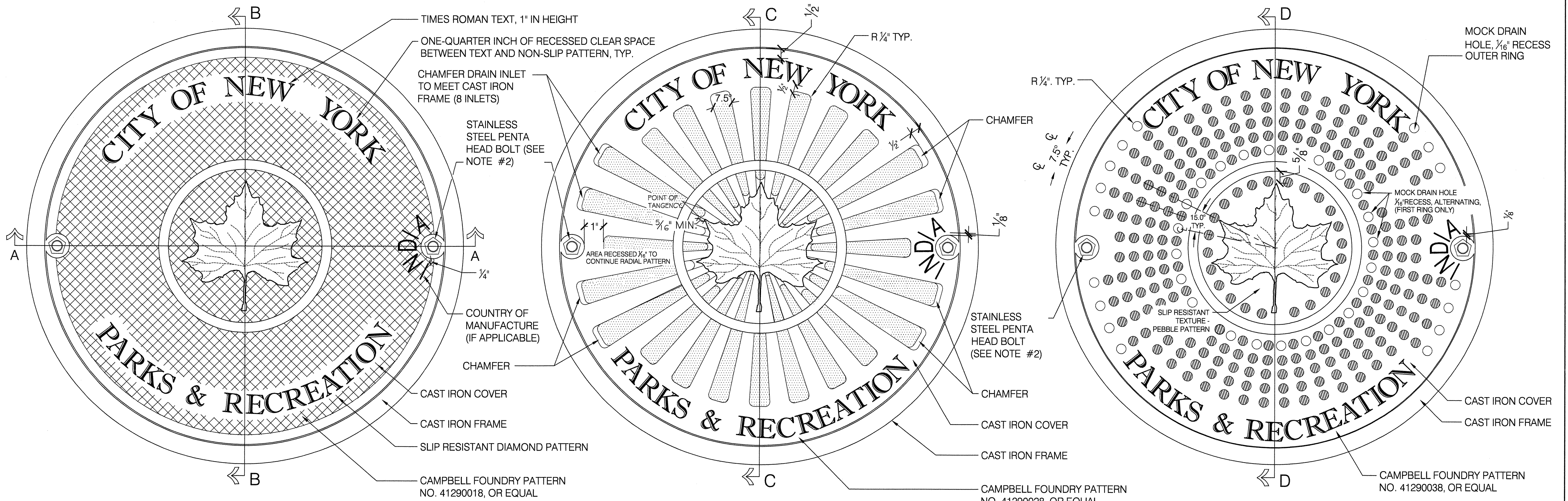
8 PRECAST CONCRETE DRYWELL

SCALE 1/2" = 1'-0"



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FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

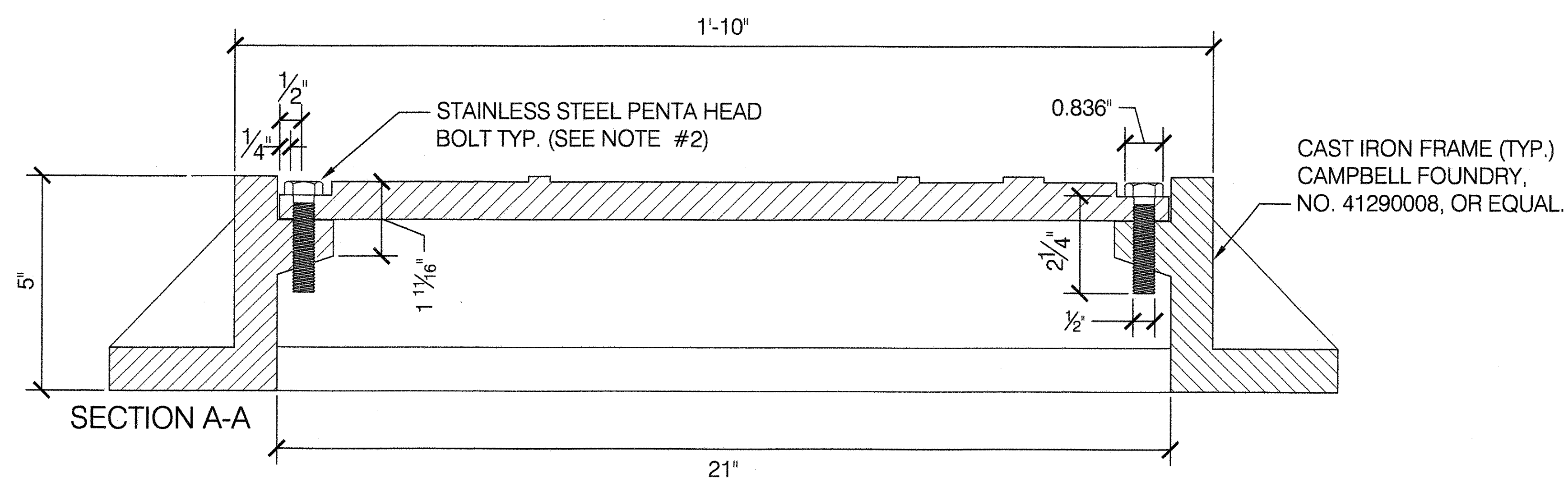
DRAWING TITLE STORMWATER MANAGEMENT DETAILS	
DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R.10
APPROVED BY DIRECTOR RUBY S. WEI, PE	SHEET NO. 4
DATE 09-01-2020	SCALE AS SHOWN



1 MANHOLE COVER
SCALE 1/2" = 1'-0"

2 CATCH BASIN COVER
SCALE 1/2" = 1'-0"

3 CATCH BASIN COVER FOR SPRAY AREA
SCALE 1/2" = 1'-0"



4 MANHOLE FRAME
SCALE 1/2" = 1'-0"

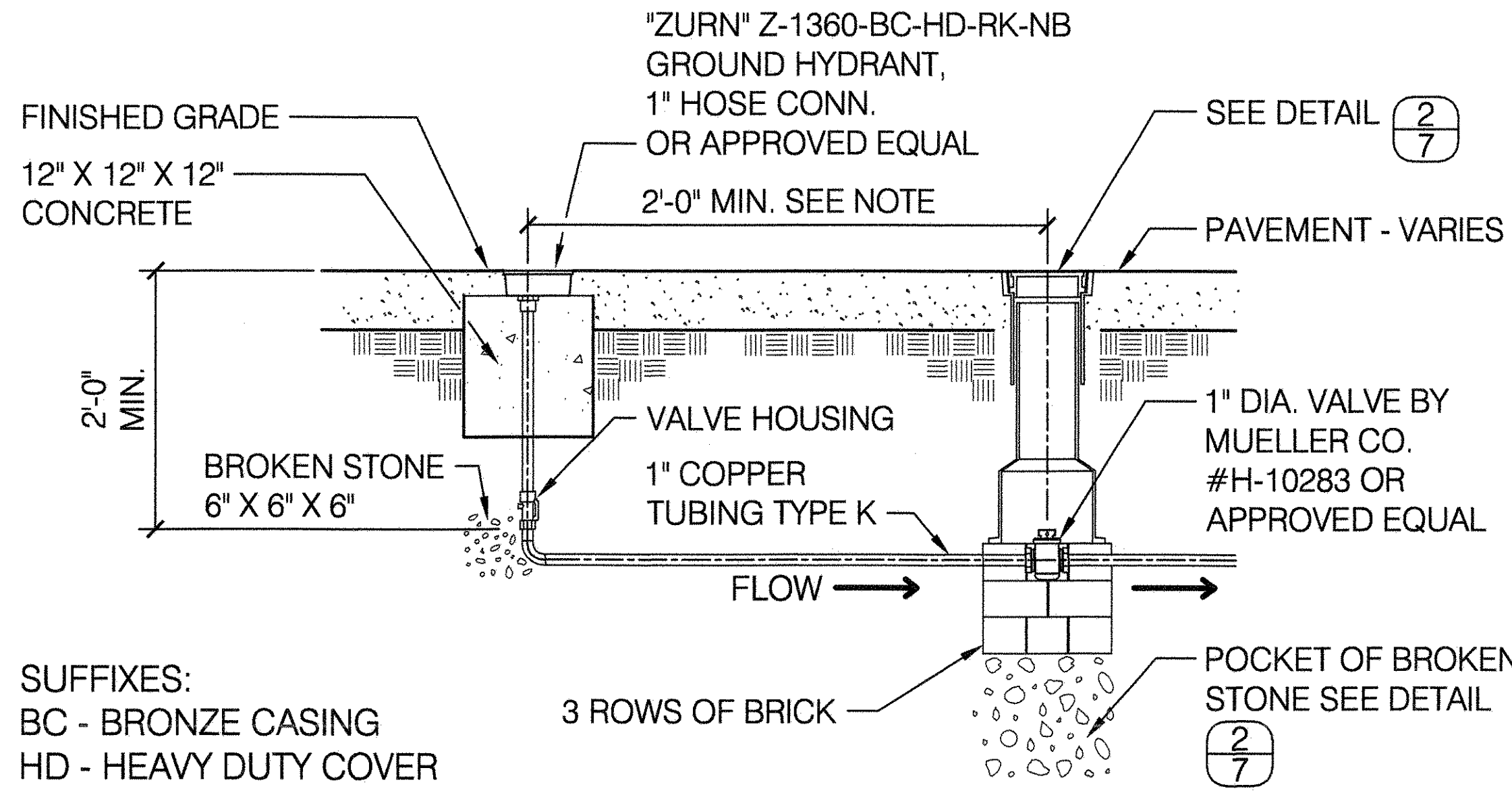
NOTES:

- ALL COVERS SHALL PASS REQUIREMENTS FOR H-20 HIGHWAY LOADING, AS PER AASHTO.
- PENTA-HEAD STAINLESS STEEL BOLT, 1/2" DIA. X 2-1/4" LENGTH, TWO (2) PER COVER, AS SUPPLIED BY CAMPBELL FOUNDRY CO, 800 BERGEN ST, HARRISON, NJ 07029, (973) 483-5480, OR APPROVED EQUAL. TYPICAL PLASTIC END CAPS ARE TO BE SUPPLIED WITH HARDWARE AND INSTALLED ON PENTA-HEAD BOLTS.
- SEE STANDARD DETAIL SHEETS "WATER SUPPLY DETAILS" AND "DRAINAGE DETAILS" FOR INSTALLATION DETAILS.

 CITY OF NEW YORK PARKS & RECREATION OLIMSTED CENTER FLUSHING MEADOWS CORONA PARK FLUSHING, NEW YORK 11368	
<small>COPYRIGHT © 2020 NYC PARKS & RECREATION</small> DRAWING TITLE PARKS LEAF MANHOLE AND CATCH BASIN COVERS	
DRAWN BY S. DAVENPORT	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10 SHEET NO. 5
DATE 09-01-2020	SCALE AS SHOWN

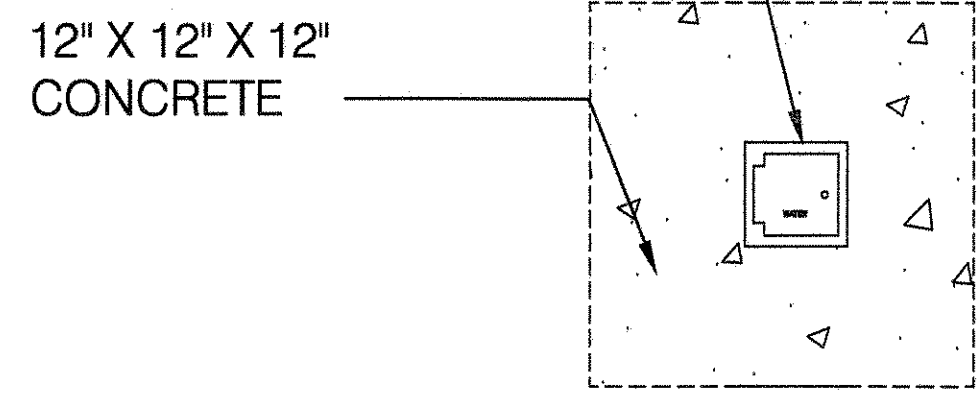
1 1" GROUND HYDRANT INSTALLATION

SCALE: NOT TO SCALE



SUFFIXES:
BC - BRONZE CASING
HD - HEAVY DUTY COVER
RK - HYDRANT PARTS REPAIR KIT
NB - POLISHED NICKEL BRONZE FACE

"ZURN" Z-1360-BC-HD-RK-NB
GROUND HYDRANT, " HOSE
CONN. OR APPROVED EQUAL



SECTION

PLAN

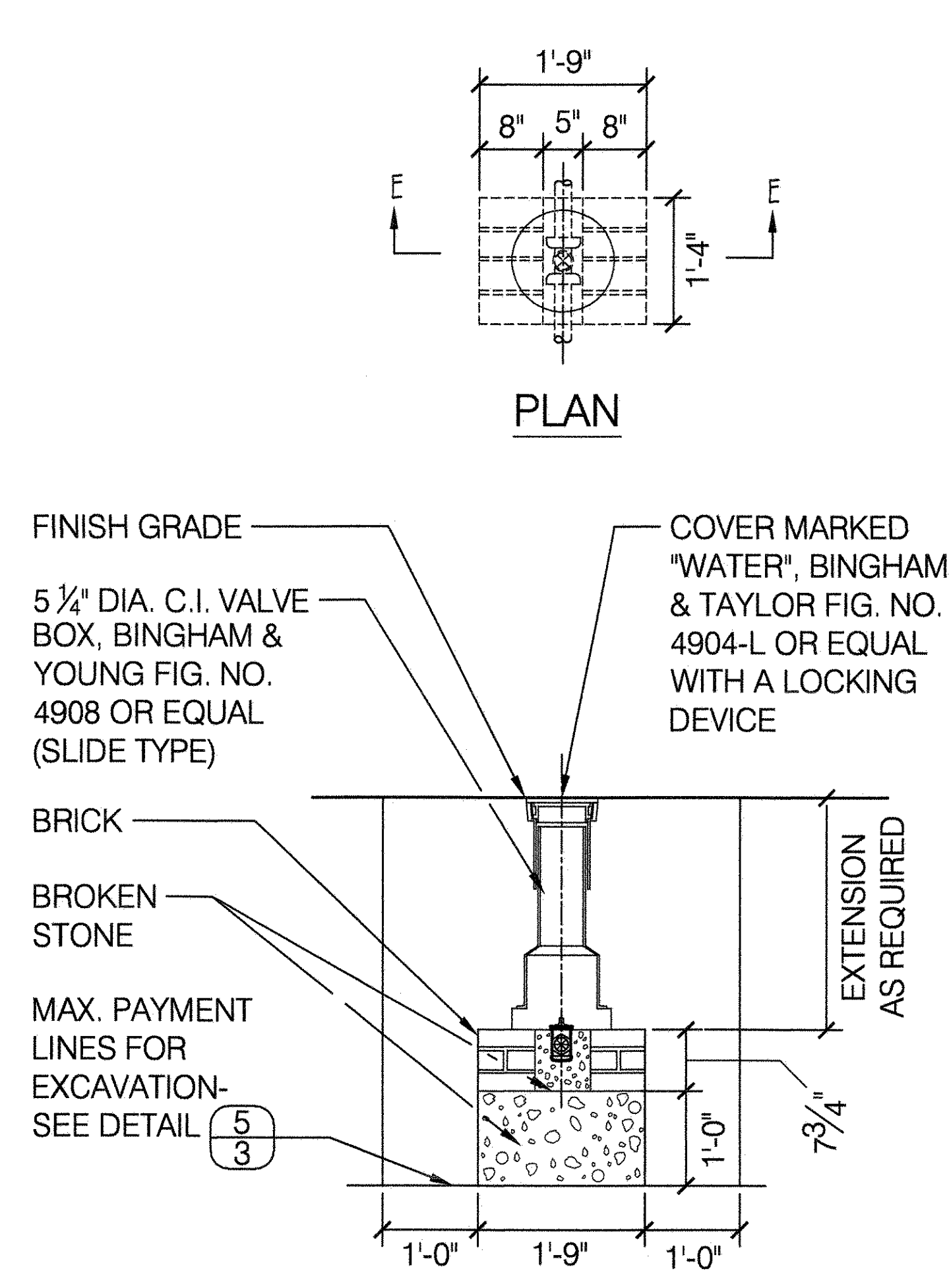
FOR LOCATION OF THE GROUND
HYDRANT, SEE LAYOUT PLAN.

NOTE:

1. THE VALVE BOX SHALL BE LOCATED ENTIRELY WITHIN THE PLANNED FINISHED PAVEMENT.
2. IN PLANTED AREAS, TOP OF 12" X 12" X 12" CONCRETE SHALL BE AT FINISHED GRADE.

2 CAST IRON VALVE INSTALLATION

SCALE: NOT TO SCALE



FINISH GRADE
COVER MARKED
"WATER", BINGHAM
& TAYLOR FIG. NO.
4904-L OR EQUAL
WITH A LOCKING
DEVICE

5 1/2" DIA. C.I. VALVE
BOX, BINGHAM &
YOUNG FIG. NO.
4908 OR EQUAL
(SLIDE TYPE)

BRICK

BROKEN STONE

MAX. PAYMENT
LINES FOR
EXCAVATION-
SEE DETAIL (5/3)

EXTENSION
AS REQUIRED

7 3/4"

1'-0"

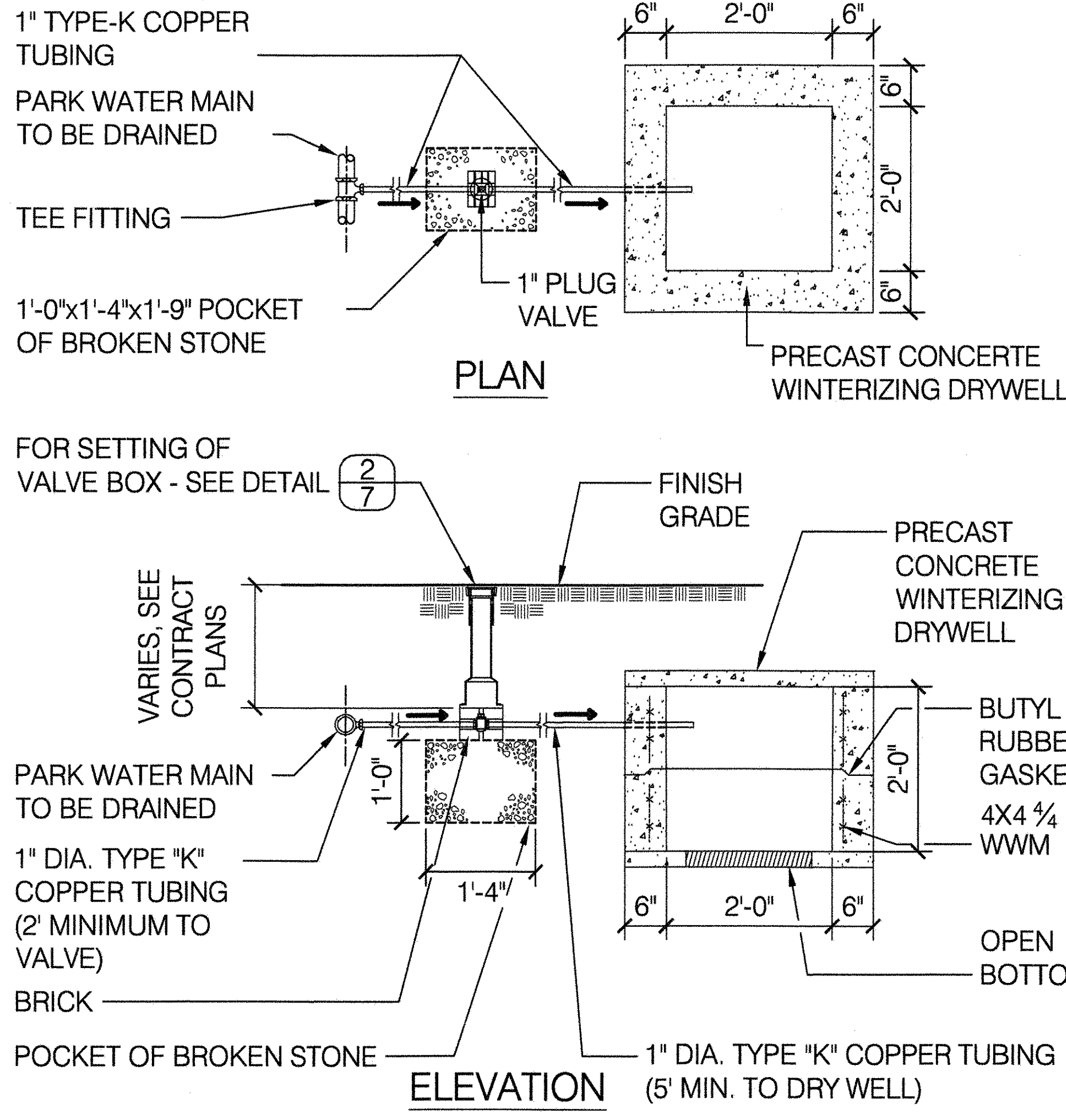
1'-9"

1'-0"

SECTION E-E

3 WINTERIZATION DRYWELL

SCALE 3/4" = 1'-0"



FOR SETTING OF
VALVE BOX - SEE DETAIL (2/7)

VARIABLES SEE
CONTRACT
PLANS

PARK WATER MAIN
TO BE DRAINED

1" DIA. TYPE "K"
COPPER TUBING
(2" MINIMUM TO
VALVE)

BRICK

POCKET OF BROKEN STONE

1" DIA. TYPE "K" COPPER TUBING
(5' MIN. TO DRY WELL)

FINISH GRADE

PRECAST
CONCRETE
WINTERIZING
DRYWELL

BUTYL
RUBBER
GASKET
4X4 1/2
WWM

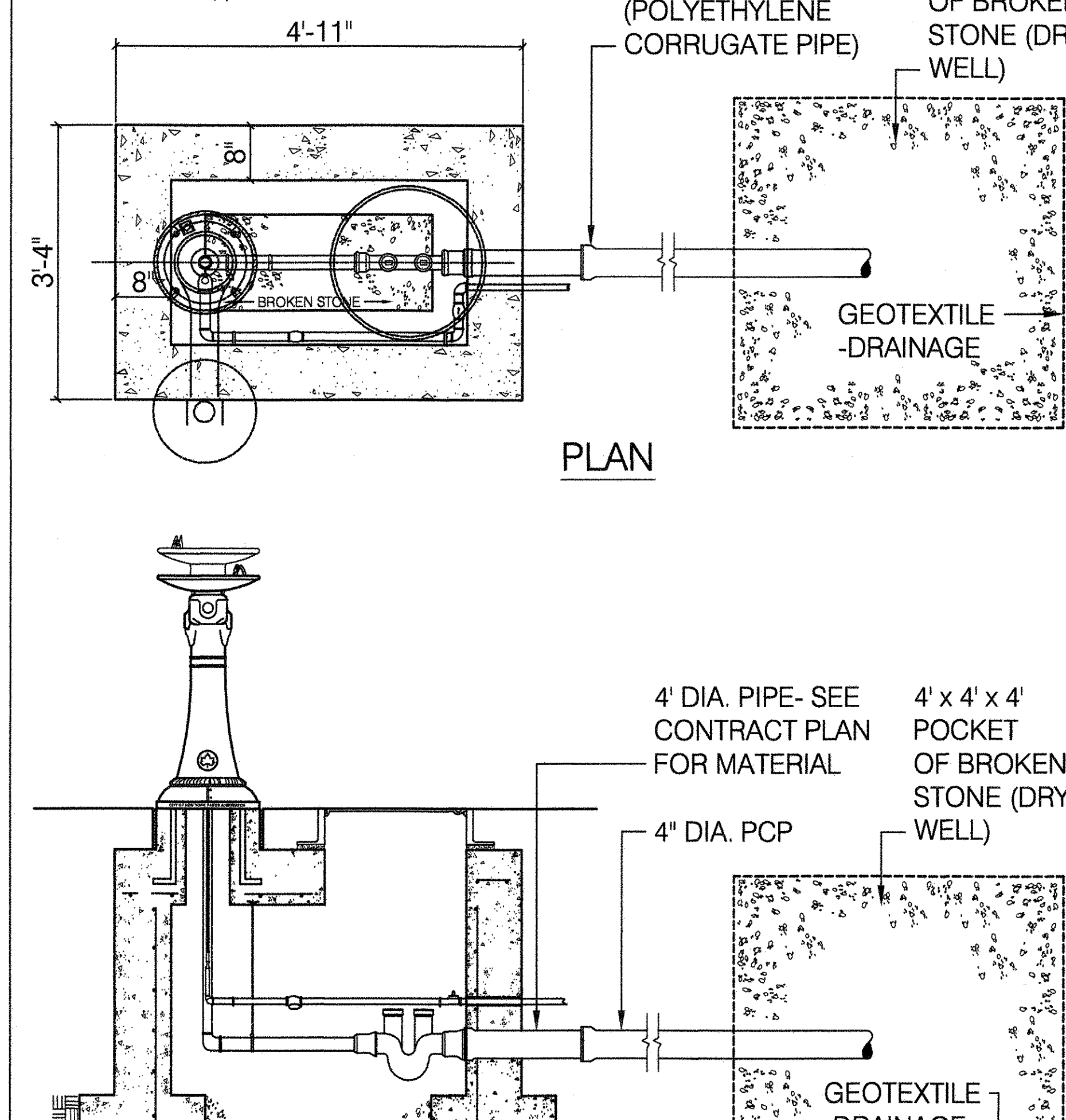
OPEN
BOTTOM

NOTE:

1. FOR ACCESSIBLE DRYWELL USE PARKS STANDARD MANHOLE COVER. FOR BURIED DRYWELL USE SOLID SLAB COVER.
2. WINTERIZATION CONCRETE DRYWELL SHALL BE PAID FOR UNDER THE ITEM "PRECAST CONCRETE FOR DRAINAGE STRUCTURE".

4 DRINKING FOUNTAIN DRYWELL

SCALE 3/4" = 1'-0"



4" DIA. PCP
(POLYETHYLENE
CORRUGATE PIPE)

4" x 4" x 4"
POCKET
OF BROKEN
STONE (DRY
WELL)

GEOTEXTILE
-DRAINAGE

FINISH GRADE

PRECAST
CONCRETE
WINTERIZING
DRYWELL

BUTYL
RUBBER
GASKET
4X4 1/2
WWM

OPEN
BOTTOM

4" DIA. PIPE-SEE
CONTRACT PLAN
FOR MATERIAL

4" x 4" x 4"
POCKET
OF BROKEN
STONE (DRY
WELL)

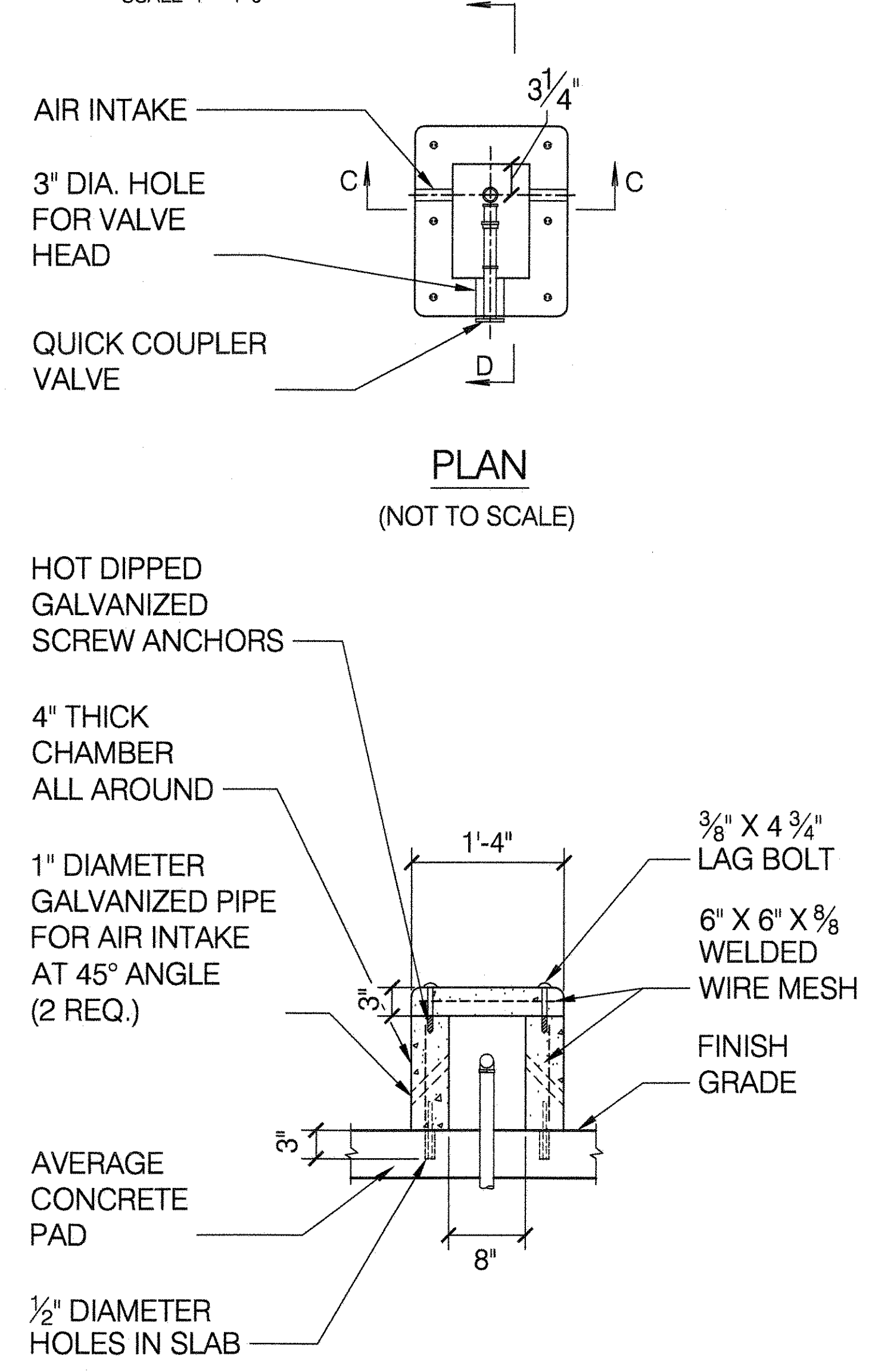
GEOTEXTILE
-DRAINAGE

NOTE:

1. FOR ACCESSIBLE DRYWELL USE PARKS STANDARD MANHOLE COVER. FOR BURIED DRYWELL USE SOLID SLAB COVER.
2. WINTERIZATION CONCRETE DRYWELL SHALL BE PAID FOR UNDER THE ITEM "PRECAST CONCRETE FOR DRAINAGE STRUCTURE".

5 QUICK COUPLING VALVE AND CHAMBER

SCALE 1" = 1'-0"



HOT DIPPED
GALVANIZED
SCREW ANCHORS

4" THICK
CHAMBER
ALL AROUND

1" DIAMETER
GALVANIZED PIPE
FOR AIR INTAKE
AT 45° ANGLE
(2 REQ.)

3/8" X 4 3/4"
LAG BOLT

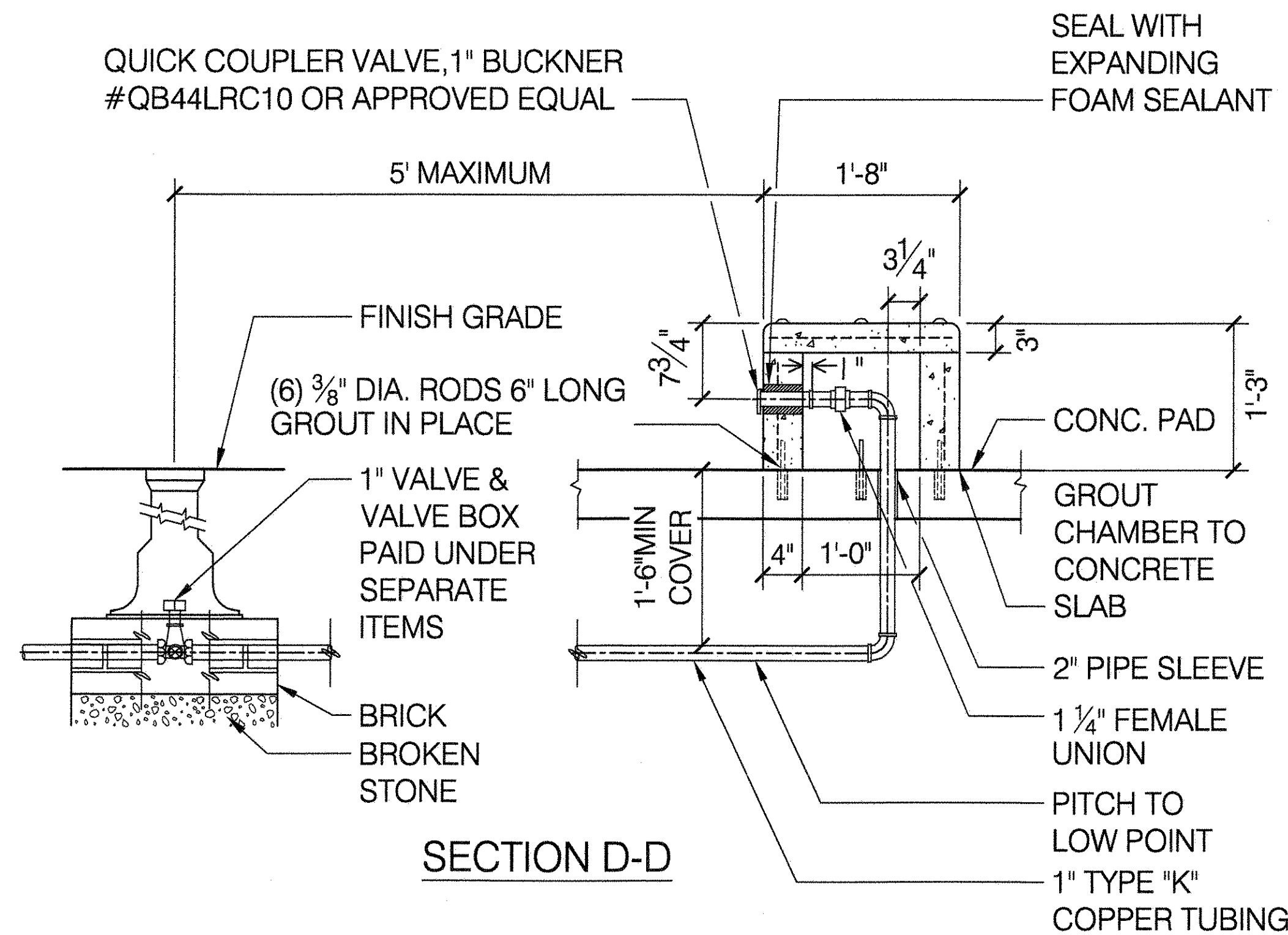
6" X 6" X 5/8"
WELDED

WIRE MESH

FINISH
GRADE

AVERAGE
CONCRETE
PAD

1/2" DIAMETER
HOLES IN SLAB



SEAL WITH
EXPANDING
FOAM SEALANT

5' MAXIMUM

1'-8"

3/4"

FINISH GRADE

(6) 3/8" DIA. RODS 6" LONG
GROUT IN PLACE

7 3/4"

CONC. PAD 1'-3"

GROUT
CHAMBER TO
CONCRETE
SLAB

2" PIPE SLEEVE

1 1/4" FEMALE
UNION

PITCH TO
LOW POINT

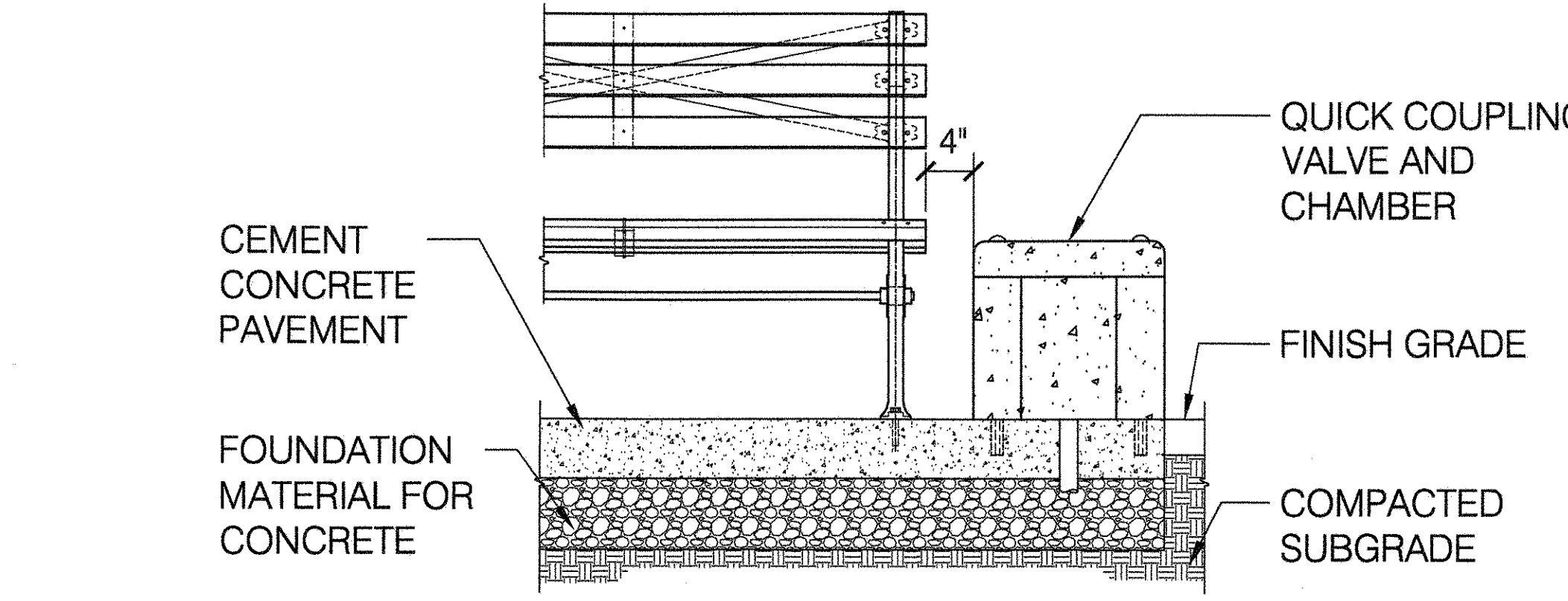
1" TYPE "K"
COPPER TUBING

1'-6" MIN
COVER

1" VALVE &
VALVE BOX
PAID UNDER
SEPARATE
ITEMS

BRICK
BROKEN
STONE

SECTION D-D

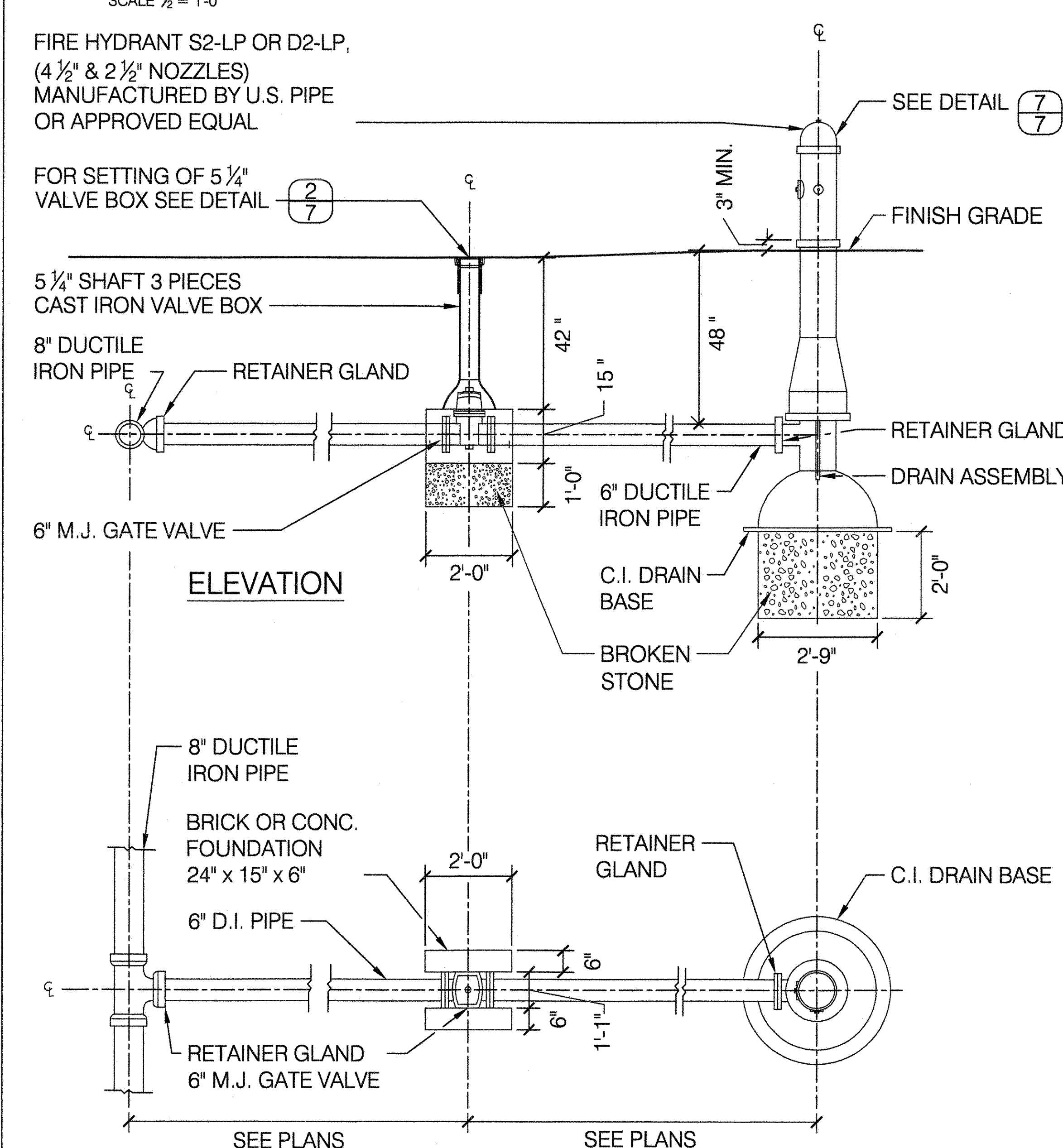


QUICK COUPLER ADJACENT TO STANDARD BENCH

NOTE: LAG BOLTS SHALL BE 18-8 STAINLESS STEEL BOLTS W/ SIDE SLOT TRUSS TYPE VANDAL PROOF HEAD BOLTS TO BE WELL OILED TO PREVENT ADHESION TO CONCRETE. COAT SURFACE OF BOLT HEADS WITH A PASTE OF WHITE LEAD & LINSEED OIL BEFORE DRIVING BOLTS.

6 TYPICAL HYDRANT INSTALLATION

SCALE 1/2" = 1'-0"



FIRE HYDRANT S2-LP OR D2-LP,
(4 1/2" & 2 1/2" NOZZLES)
MANUFACTURED BY U.S. PIPE
OR APPROVED EQUAL

FOR SETTING OF 5 1/4"
VALVE BOX SEE DETAIL (2/7)

5 1/4" SHAFT 3 PIECES
CAST IRON VALVE BOX

8" DUCTILE
IRON PIPE

RETAINER GLAND

6" M.J. GATE VALVE

6" DUCTILE
IRON PIPE

C.I. DRAIN
BASE

BROKEN
STONE

FINISH GRADE

3" MIN.

SEE DETAIL (7/7)

42"

48"

15"

1'-0"

2'-0"

2'-9"

2'-0"

RETAINER GLAND

DRAIN ASSEMBLY

RETAINER GLAND

6" D.I. PIPE

RETAINER GLAND

6" M.J. GATE VALVE

SEE PLANS

SEE PLANS

8" DUCTILE
IRON PIPE

BRICK OR CONC.
FOUNDATION
24" x 15" x 6"

6" D.I. PIPE

RETAINER GLAND

C.I. DRAIN BASE

QUICK COUPLING
VALVE AND
CHAMBER

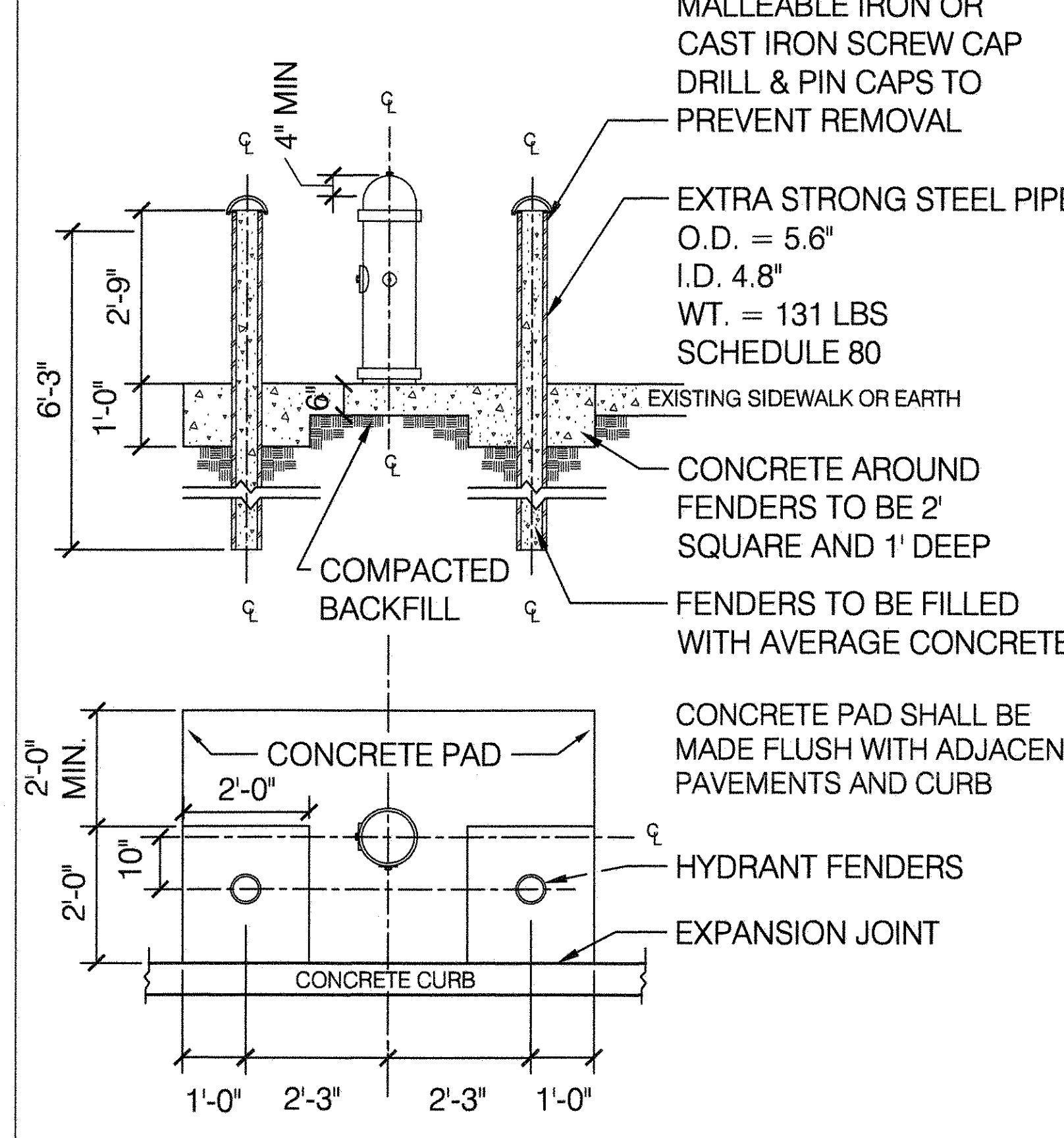
FINISH GRADE

COMPACTED
SUBGRADE

NOTE: THE INSTALLER OF FIRE HYDRANT
MUST BE APPROVED BY NYCDEP BWS

7 HYDRANT FENDER LAYOUT

SCALE: NOT TO SCALE



MALLEABLE IRON OR
CAST IRON SCREW CAP
DRILL & PIN CAPS TO
PREVENT REMOVAL

EXTRA STRONG STEEL PIPE
O.D. = 5.6"
I.D. 4.8"
WT. = 131 LBS
SCHEDULE 80

EXISTING SIDEWALK OR EARTH

CONCRETE AROUND
FENDERS TO BE 2'
SQUARE AND 1' DEEP

FENDERS TO BE FILLED
WITH AVERAGE CONCRETE

CONCRETE PAD SHALL BE
MADE FLUSH WITH ADJACENT
PAVEMENTS AND CURB

HYDRANT FENDERS

EXPANSION JOINT

CONCRETE CURB

1'-0"

2'-3"

2'-3"

1'-0"

6'-3"

1'-0"

2'-9"

4" MIN

FINISH GRADE

3" MIN.

CONCRETE PAD

2'-0"

2'-0"

10"

2'-0"

D.E.P. - B.W.S. STANDARD DETAIL 45161-Z-A

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FLUSHING, NEW YORK 11368

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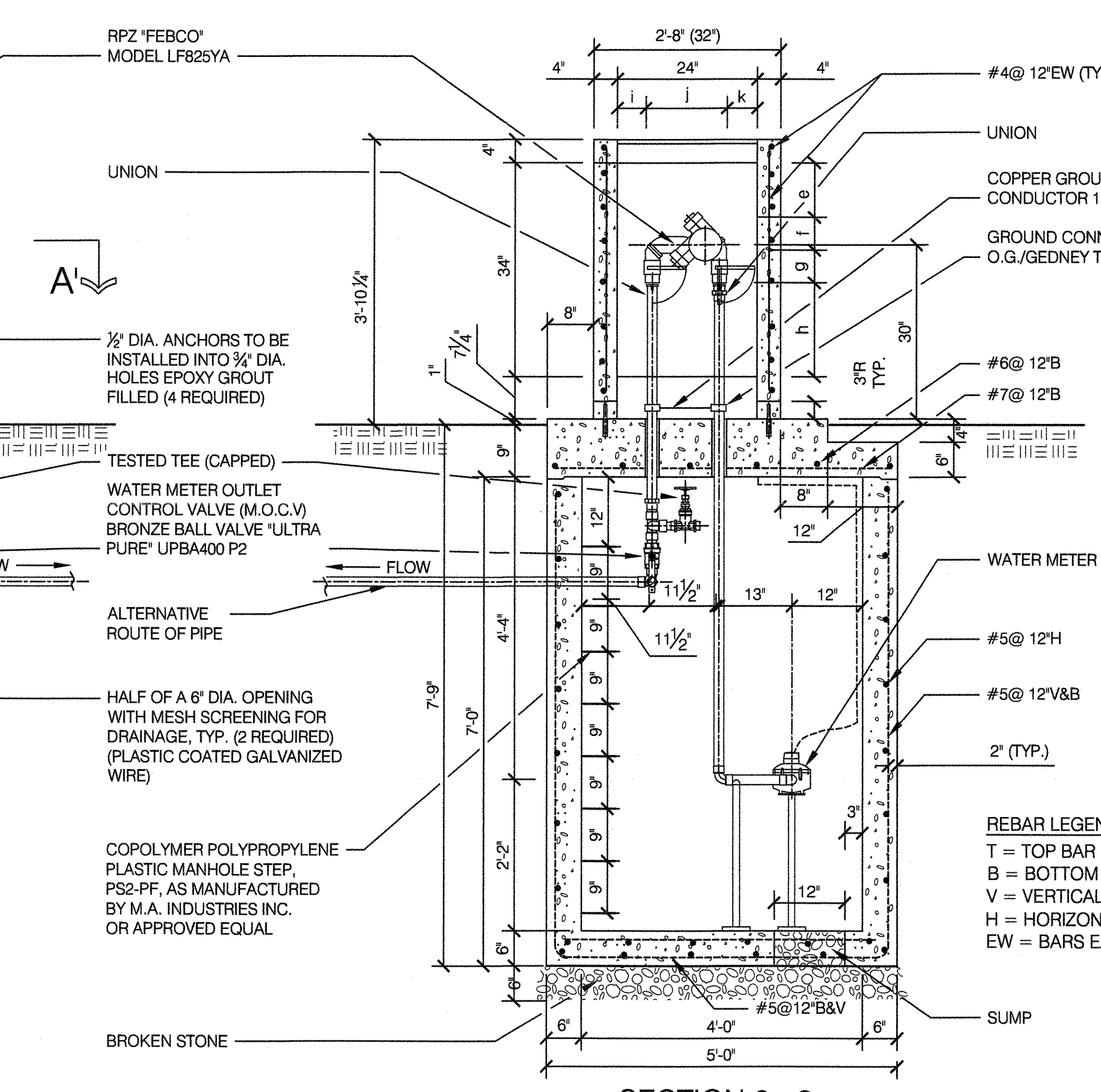
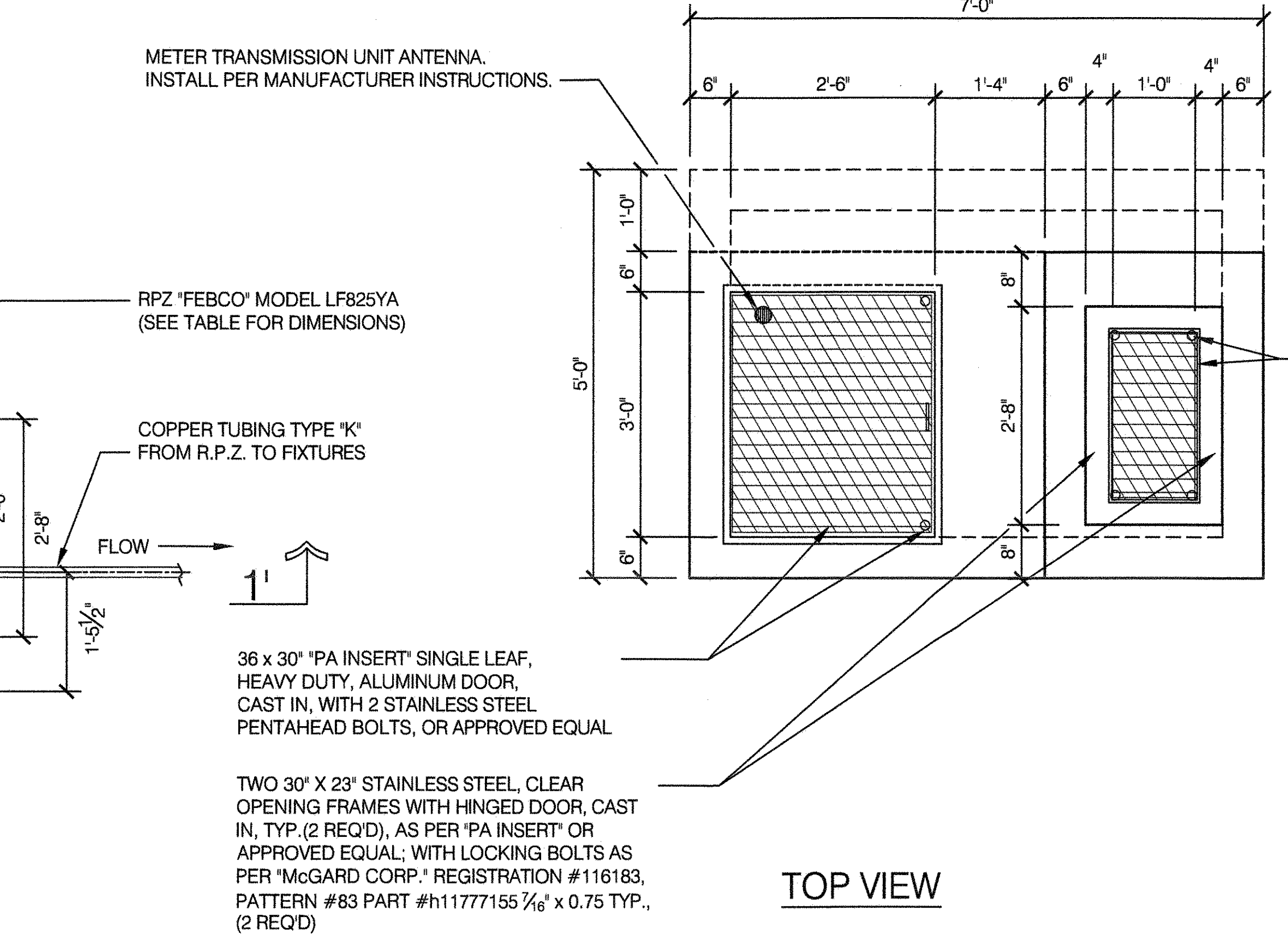
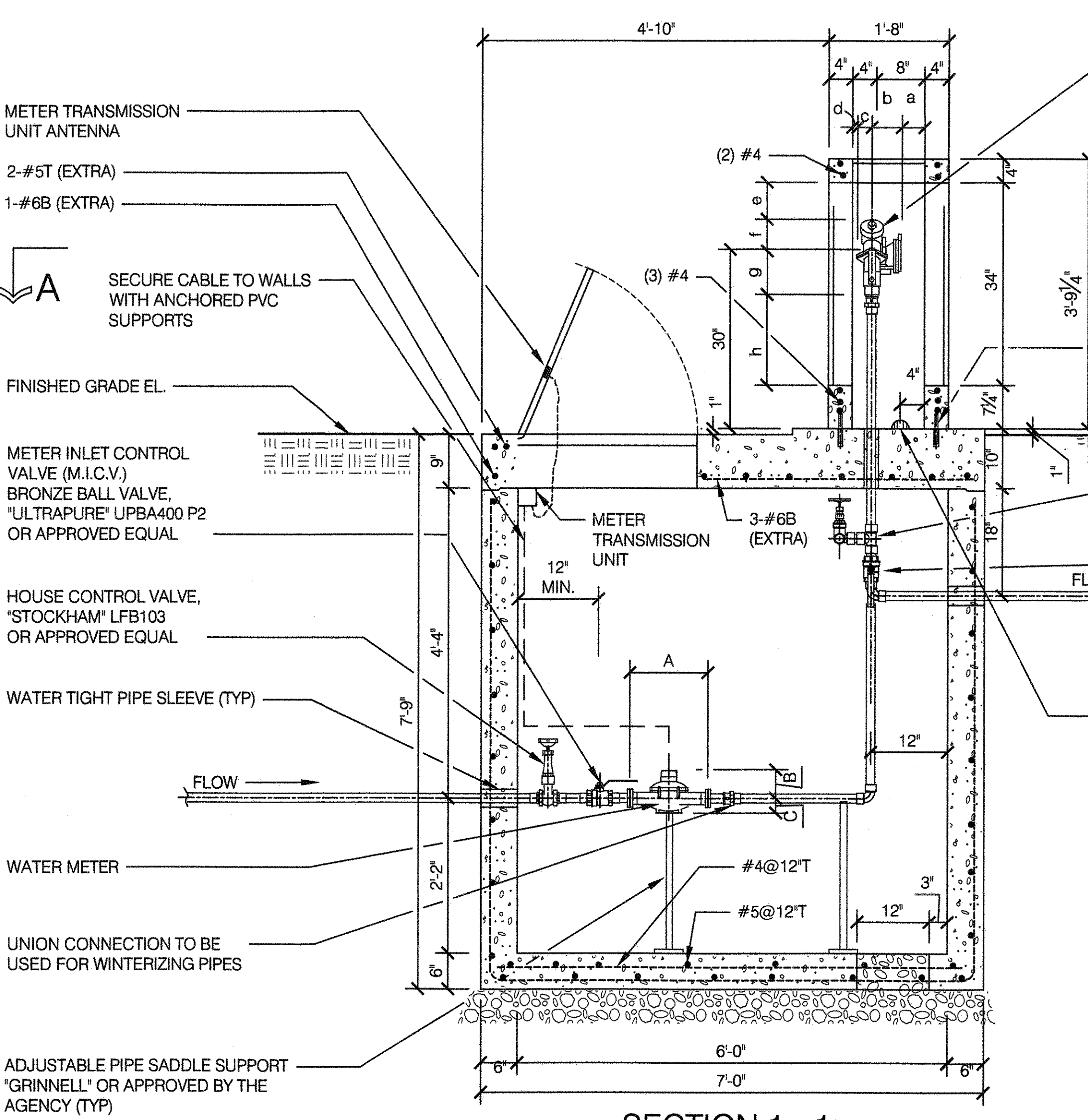
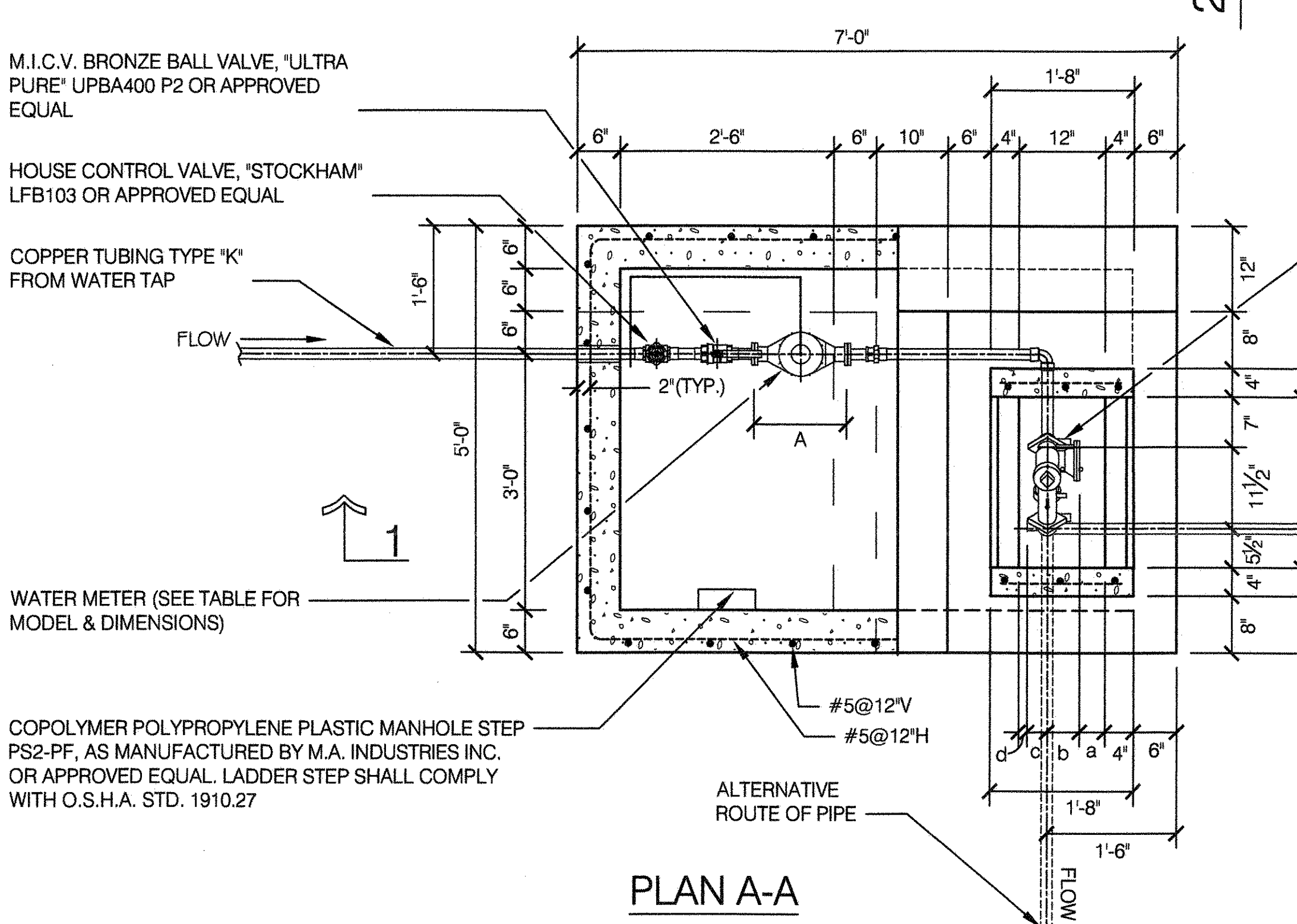
DRAWING TITLE
WATER SUPPLY DETAILS

DRAWN BY STAFF	CHECKED BY RUBY WEI, PE
APPROVED BY STANDARD D.P.R. DETAIL TYLA / 146-R10	SHEET NO. 7
APPROVED BY DIRECTOR RUBY WEI, PE	SCALE AS SHOWN
DATE 09-01-2020	

SIZE (INCH)	WATER METER (WM)			CONNECTION	REMOTE SYSTEM FOR PIT METER SETTING
	COMPANY	MODEL	DIMENSIONS (INCH) A B C		
1	NEPTUNE	T-10	10 3/4 3 2 1/2	THREADED	Proread ARB System
	SENSUS	ACCUSTREAM	6.3 6.9 2 1/2		ECR
1 1/2	NEPTUNE	T-10	13 6 2 1/2	OVAL FLANGE	Proread ARB System
	SENSUS	OMNI C ²	13 7 1/2 2 1/2		Full Electronic Register
2	METRON FARNIER	SPECTRUM 130D	9.78 4.28 2.02	OVAL FLANGE	Innov8 Register
	SENSUS	OMNI C ²	15 1/4 7 1/2 2 1/2		Full Electronic Register

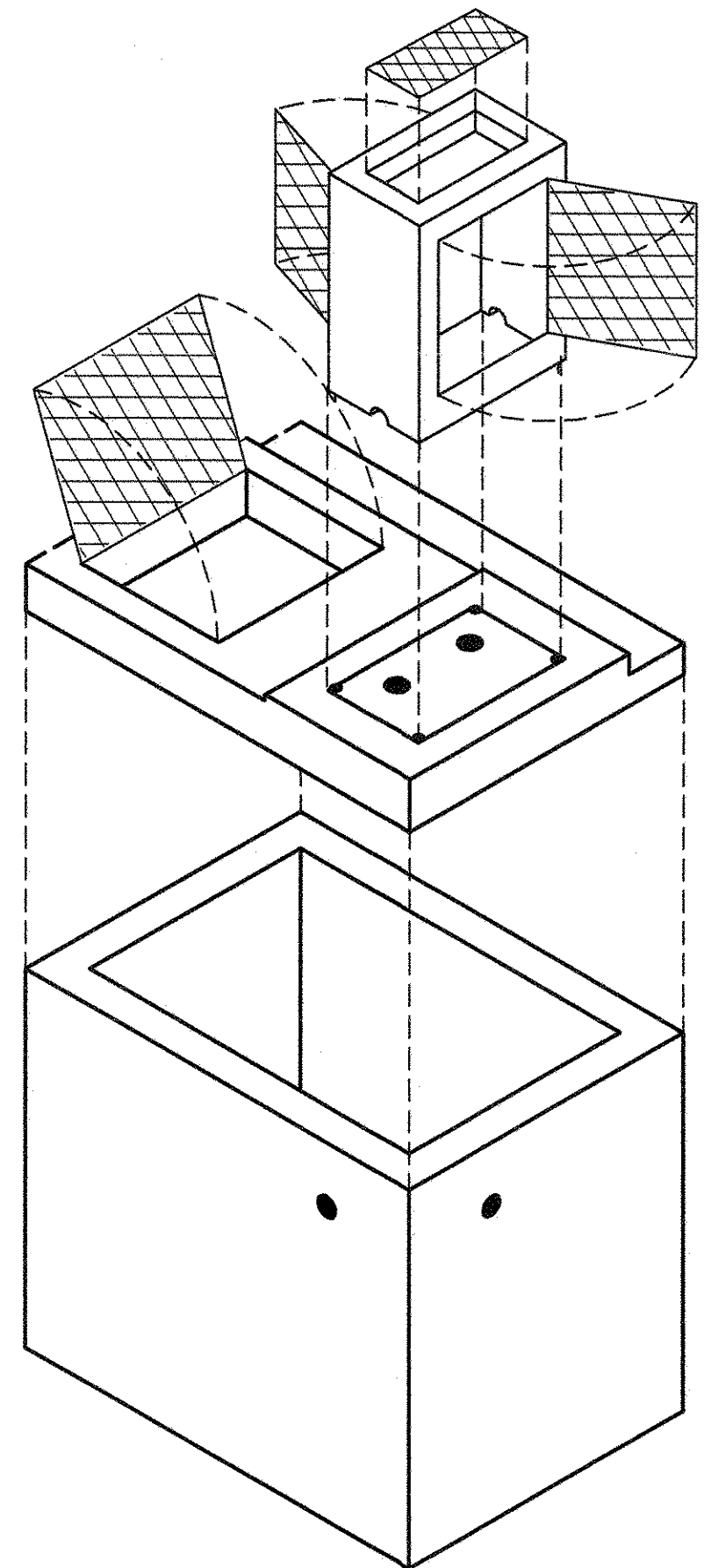
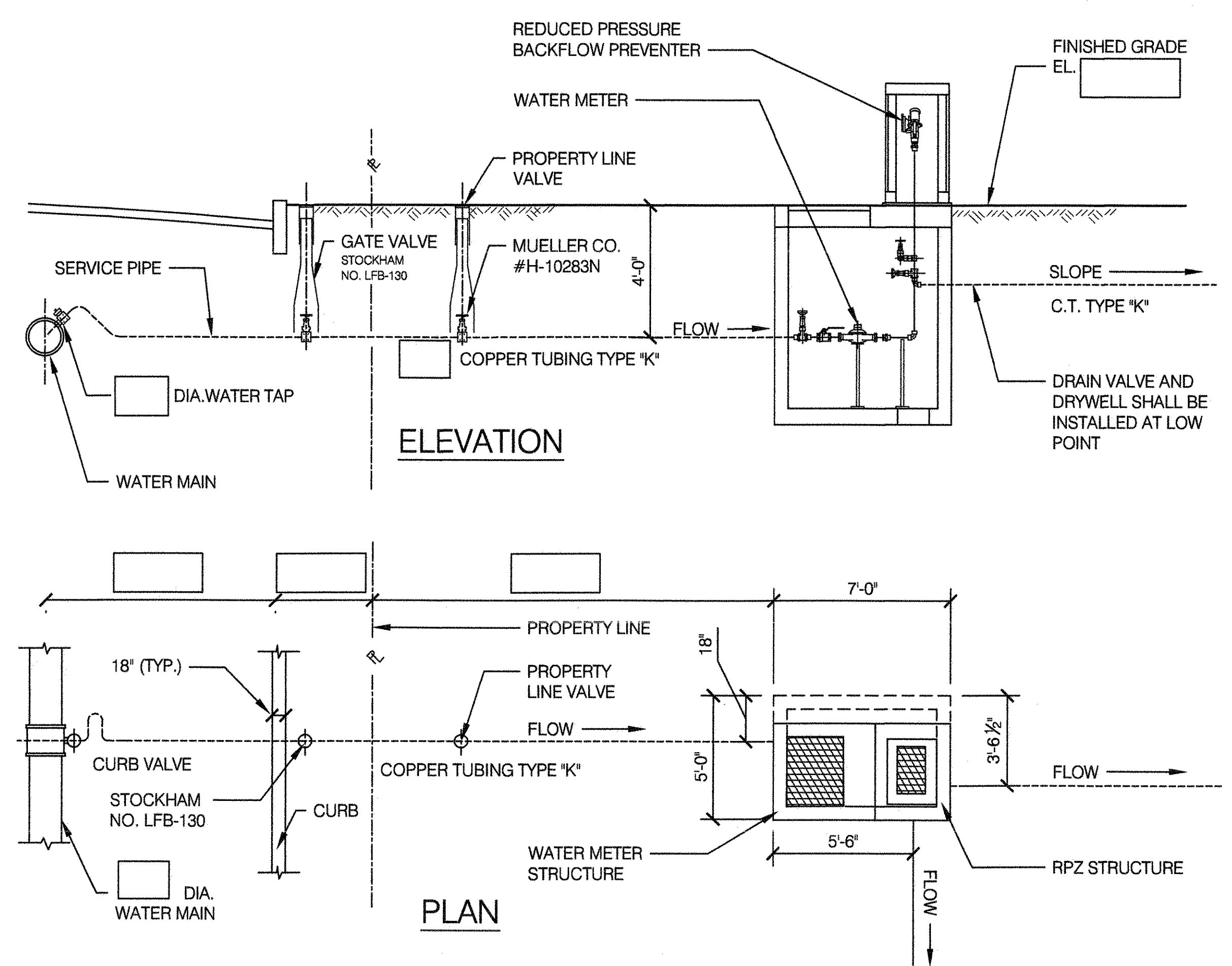
SIZE (INCH)	REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ)													
	COMPANY	MODEL	a	b	c	d	e	f	g	h	i	j	k	l
1	FEBCO	LF825YA	3 1/2	4 1/2	1 1/2	2 3/4	7 1/2	4 1/2	5 1/2	17 1/2	4 1/2	10 1/4	9 1/2	28 3/4
1 1/2	FEBCO	LF825YA	3	5	2 1/2	1 1/2	6	5 1/2	6 3/4	15 3/4	4 1/2	14 1/4	5 1/2	27 3/4
2	FEBCO	LF825YA	3	5	2 1/2	1 1/2	6	5 1/2	7 1/2	15 1/4	3 1/2	14 1/2	5 1/2	27 3/4

NOTES: 1. THE REMOTE READING DEVICE SHALL BE AN ACALA METER TRANSMISSION UNIT (MTU) WITH THROUGH-THE-LID ANTENNA, OR DEP APPROVED EQUAL.
2. SEE "LIST OF APPROVED METERS AND RELATED EQUIPMENT" FOR ALL WATER METER MODELS APPROVED BY DEP.



NOTES:

- THIS STANDARD DETAIL SHOWS THE MINIMUM REQUIREMENT FOR RPZ ASSEMBLY. ADDITIONAL CHECK VALVES MAYBE REQUIRED FOR SITES WITH HIGH WATER TABLE, THE RPZ BOX SUMP SHALL BE ELIMINATED AND WATER TIGHT SLEEVES SHALL PROVIDED AT ALL PIPE OPENINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CERTIFICATIONS NECESSARY TO COMPLY WITH N.Y.S. DEPARTMENT OF HEALTH REGULATIONS FOR B.F.P. (AFTER INSTALLATION) INCLUDING THE FOLLOWING:
 - CERTIFICATION BY BACKFLOW PREVENTION DEVICE TESTER.
 - CERTIFICATION OF MASTER PLUMBER RESPONSIBLE FOR SUCH INSTALLATION.
 - PROFESSIONAL ENGINEERS OR REGISTERED ARCHITECTS CERTIFICATION THAT THE INSTALLATION IS IN ACCORDANCE WITH THE APPROVED PLANS.
 - ALL OTHER REQUIREMENTS TO INSURE COMPLIANCE WITH N.Y.S.D.O.H., GEN. 215B.
- THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SHOP DRAWINGS AND CATALOG CUTS: SHOP DRAWINGS: a) WM & RPZ STRUCTURES, b) WM & RPZ INSTALLATION CATALOG CUTS: a) RPZ, b) VALVES, c) WATER METER, c) PIPING AND FITTINGS.
- WATER SERVICE INTO PARK SHALL BE SHUT OFF DURING WINTER MONTHS WITH ALL PIPING BEING PROPERLY DRAINED.
- THE CONTRACTOR MAY MAKE NECESSARY MODIFICATIONS TO THE PIPING AS MAY BE REQUIRED, AT NO EXTRA COST TO THE CITY OF NEW YORK. PROPOSED CHANGES MUST BE SUBMITTED FOR APPROVAL PRIOR TO THE START OF ANY CONSTRUCTION WORK. REROUTING OF PIPES WILL NOT BE CONSIDERED APPROPRIATE FOR CHANGE ORDERS.
- ALL CONCRETE TO BE 5,000 P.S.I. @ 28 DAYS.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFERS.
- PIPE LABELING: BETWEEN POINT OF ENTRY (PROPERTY LINE) AND R.P.Z. AND AT ALL WALL AND FLOOR PENETRATIONS IN B.F.P. (R.P.Z.) CHAMBER AND WATER METER PIT, THE PIPES MUST BE STENCILED 'FEED TO BACKFLOW PREVENTER, DO NOT TAP OR CONNECT TO THIS LINE' (1/2" GREEN COLORED LETTERING ON A WHITE BACKGROUND AT INTERVALS OF 5 FEET).
- DIAMETER OF PIPES AND VALVES SHOWN ON THE DRAWINGS IS EQUAL TO DIAMETER OF WATER METER AND RPZ.
- ALL WALL AND ROOF PENETRATIONS SHALL BE PROVIDED WITH PIPE SLEEVES.
- ALL PROPOSED INSTALLATIONS/ REPAIR OF BACK FLOW PREVENTER (BFP) DEVICES TO BE UTILIZED ON ALL DOMESTIC DRINKING WATER SERVICES FOR HUMAN CONSUMPTION, MUST BE LEAD-FREE IN COMPLIANCE WITH THE AMENDED FEDERAL LAW, SAFE DRINKING WATER ACT (SDWA).
- SEE THE CIVIL DRAWING FOR PLUMBING AFTER THE METER OUTLET VALVE.
- IF GROUND WATER IS ENCOUNTERED WITHIN 3 FEET BELOW THE ELEVATION OF THE STRUCTURE THEN THE STRUCTURE SHOULD BE MADE WATER TIGHT AND SUMP SHALL BE ELIMINATED.
- FOR LAYOUT OF WATER METER AND RPZ STRUCTURES, SEE GRADING AND UTILITY PLAN, SHEET #



2 TYPICAL WATER SERVICE LAYOUT NOT TO SCALE

NOTE: THIS STANDARD DETAIL DRAWING IS FOR BIDDING PURPOSES ONLY. PRIOR TO STARTING WORK, THE AGENCY SHALL FILE WITH D.E.P. A SITE SPECIFIC DRAWING DEPICTING ALL DIMENSIONS REQUIRED TO COMPLETE THE 'TYPICAL WATER SERVICE LAYOUT' (SHOWN ABOVE IN DETAIL 2) AND ALL RELEVANT INFORMATION IN THE TITLE BLOCK INCLUDING THE BLOCK & LOT NUMBERS. THE WORK SHALL COMMENCE ONLY AFTER APPROVAL IS OBTAINED FROM D.E.P.

THIS BOX FOR CONSULTANT USE ONLY

CONSULTING FIRM: _____

ADDRESS: _____

PHONE NUMBER: _____

CONTACT PERSON: _____

BLOCK # _____

LOT # _____

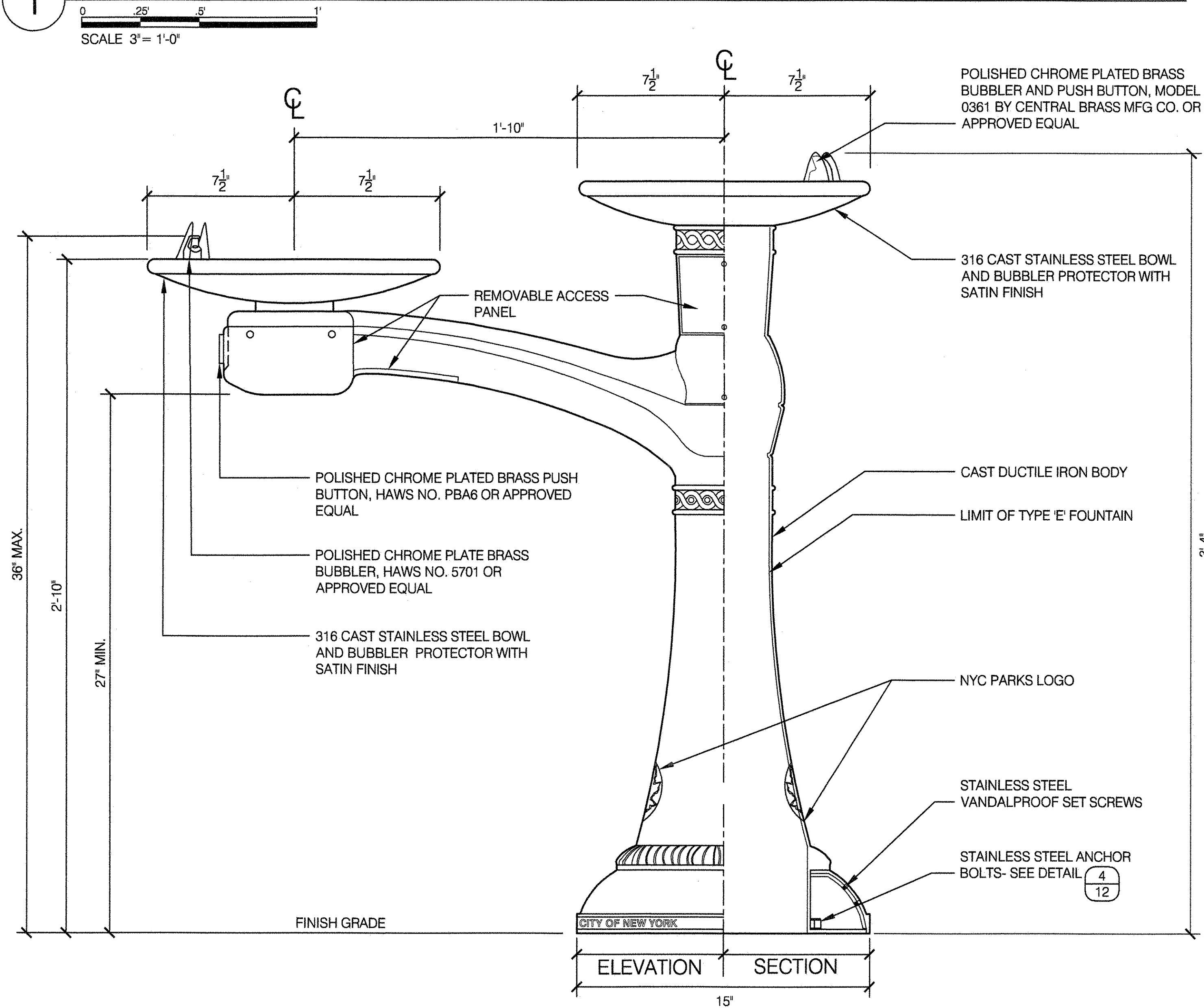
CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS CORONA PARK
FLUSHING, NEW YORK 11368

DRAWN BY: STAFF		CHECKED BY: R. WEI, PE	
APPROVED BY: RAY PALMARES, PE		STANDARD D.P.R. DETAIL TYLA / 146-R10	
APPROVED BY DIRECTOR: RUBY S. WEI, PE		SHEET NO. 8	
DATE: 09-01-2020		SCALE: AS SHOWN	

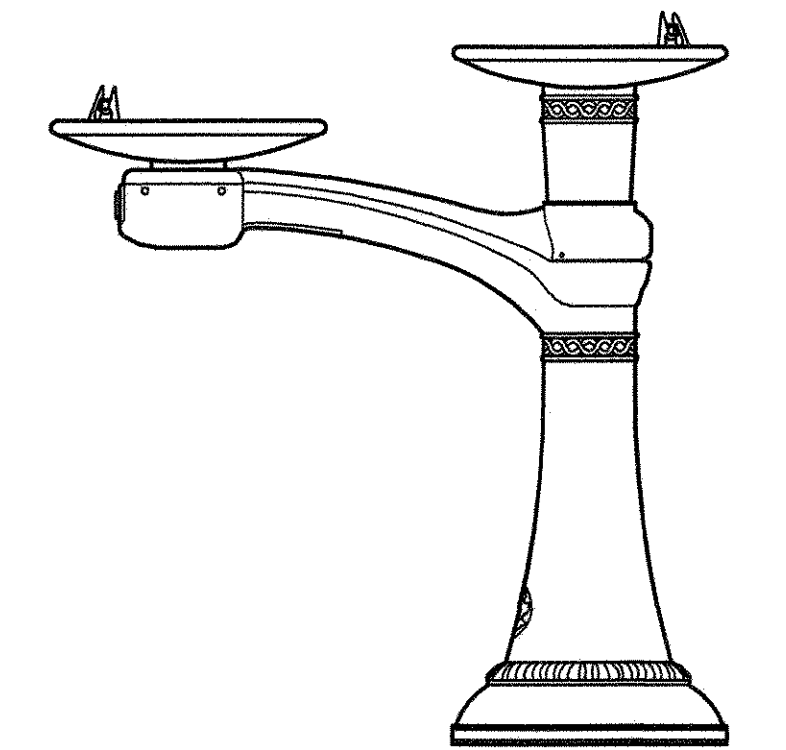
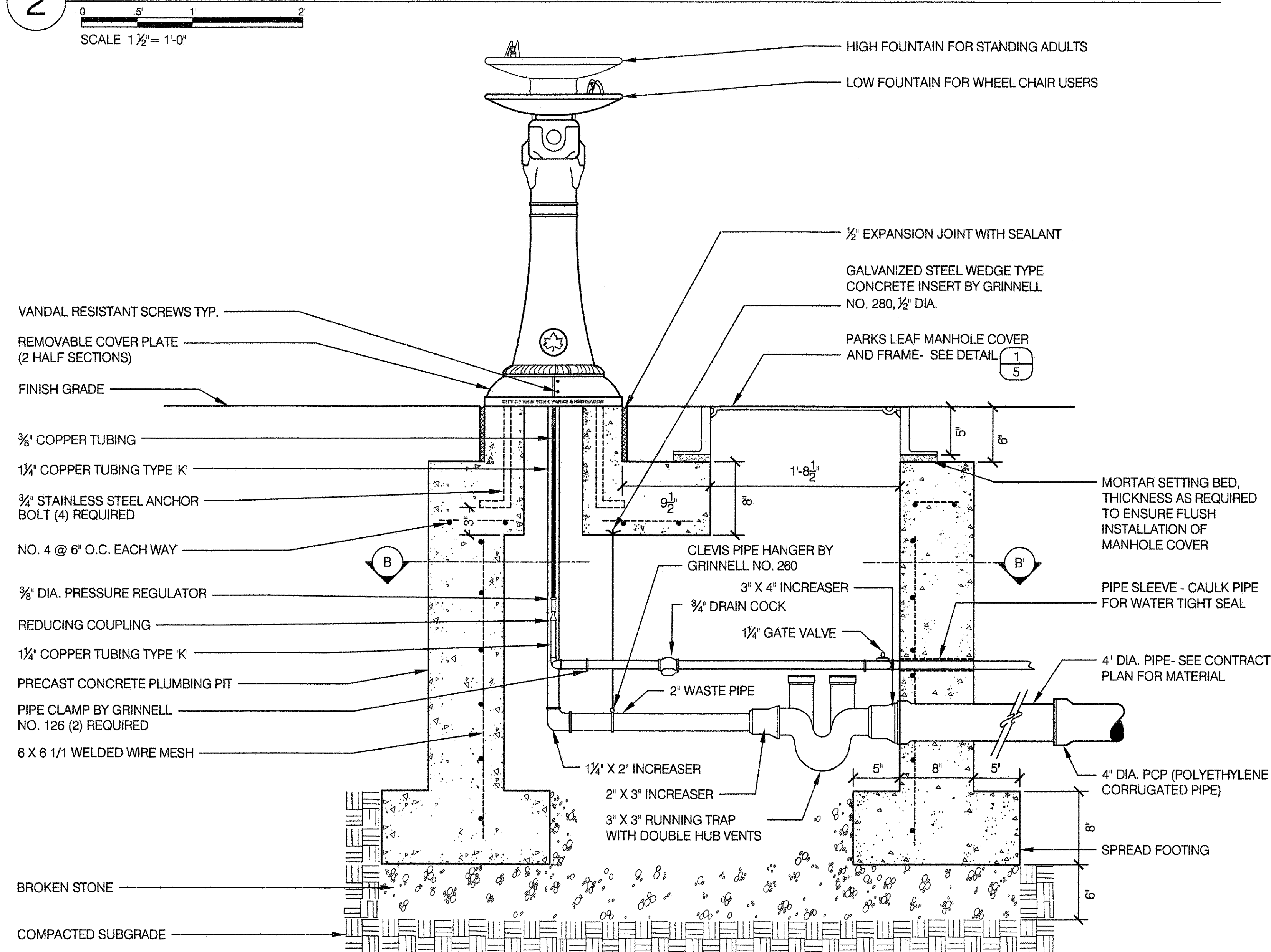
1 PRECAST CONCRETE WATER METER AND REDUCED PRESSURE ZONE BACKFLOW PREVENTER STRUCTURES WITH EQUIPMENT INSTALLATION AND DETAILS

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

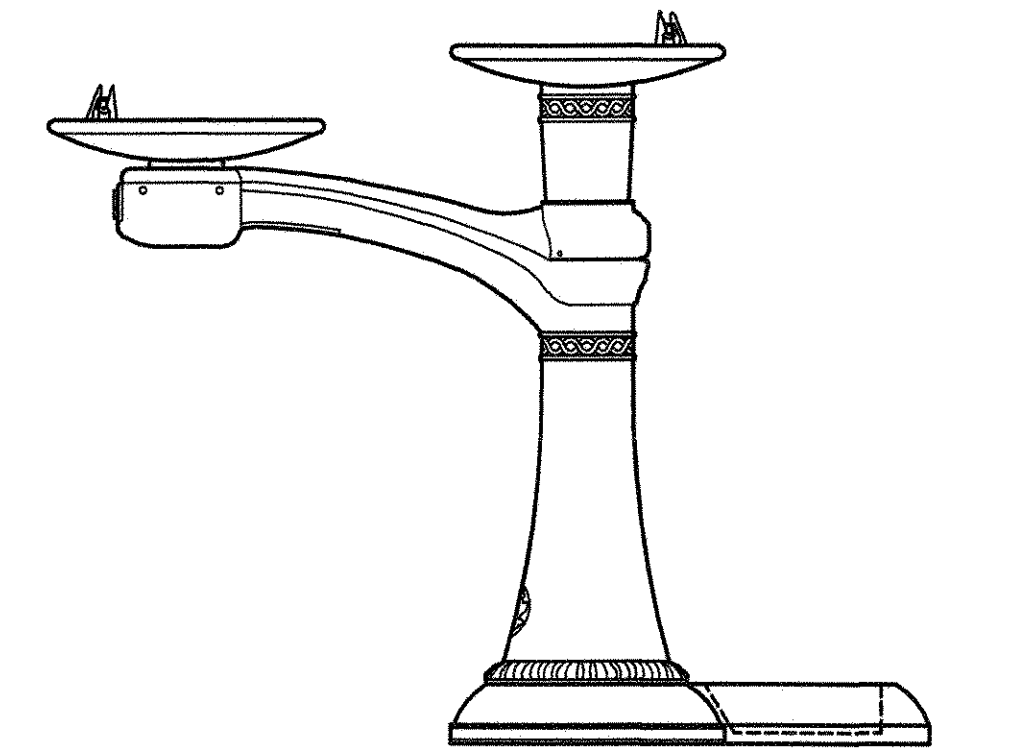
1 DRINKING FOUNTAIN TYPE 'E' (HI-LO) - SIDE ELEVATION/SECTION



2 FRONT VIEW ELEVATION/ SECTION

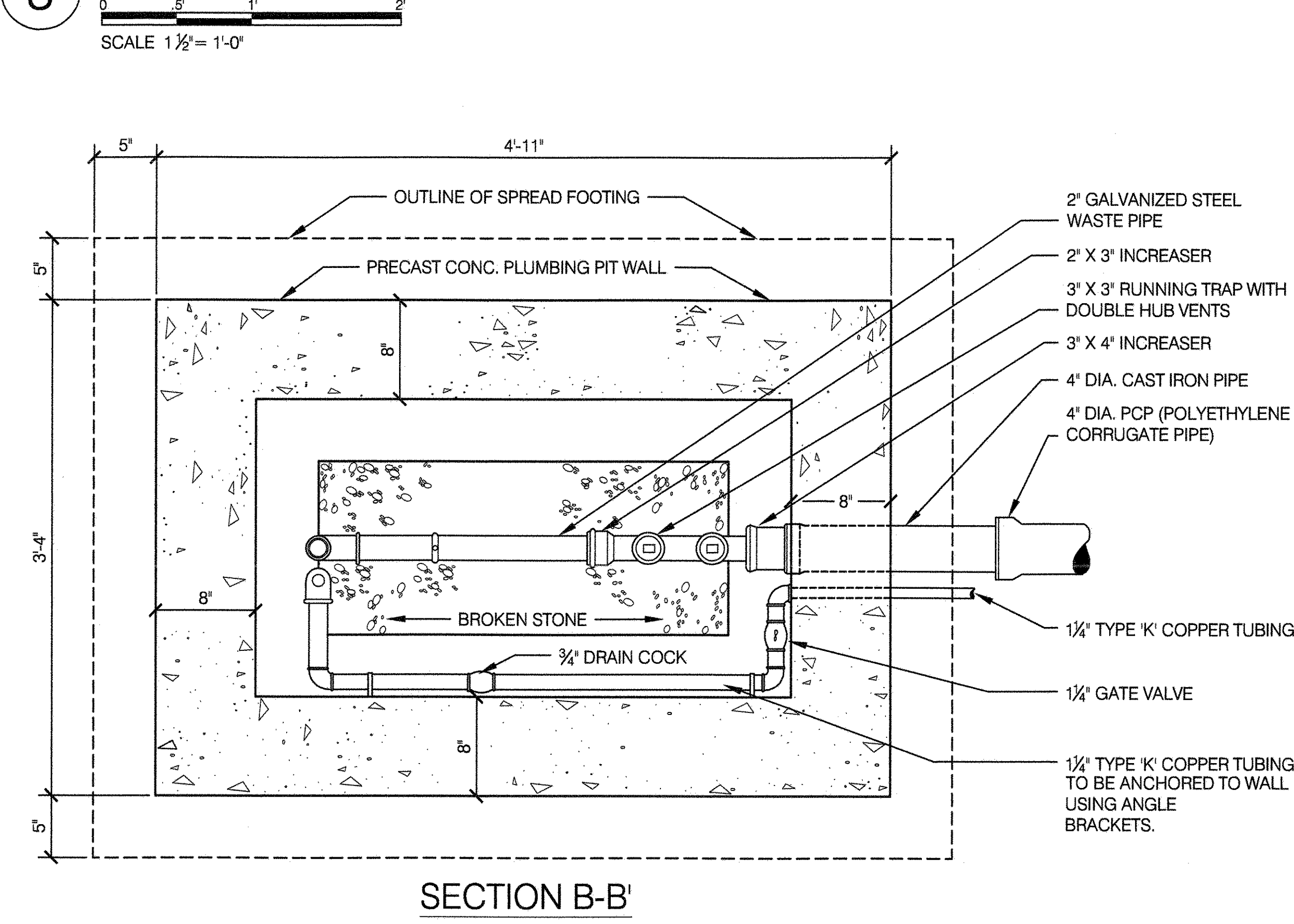


TYPE 'E' HI-LO
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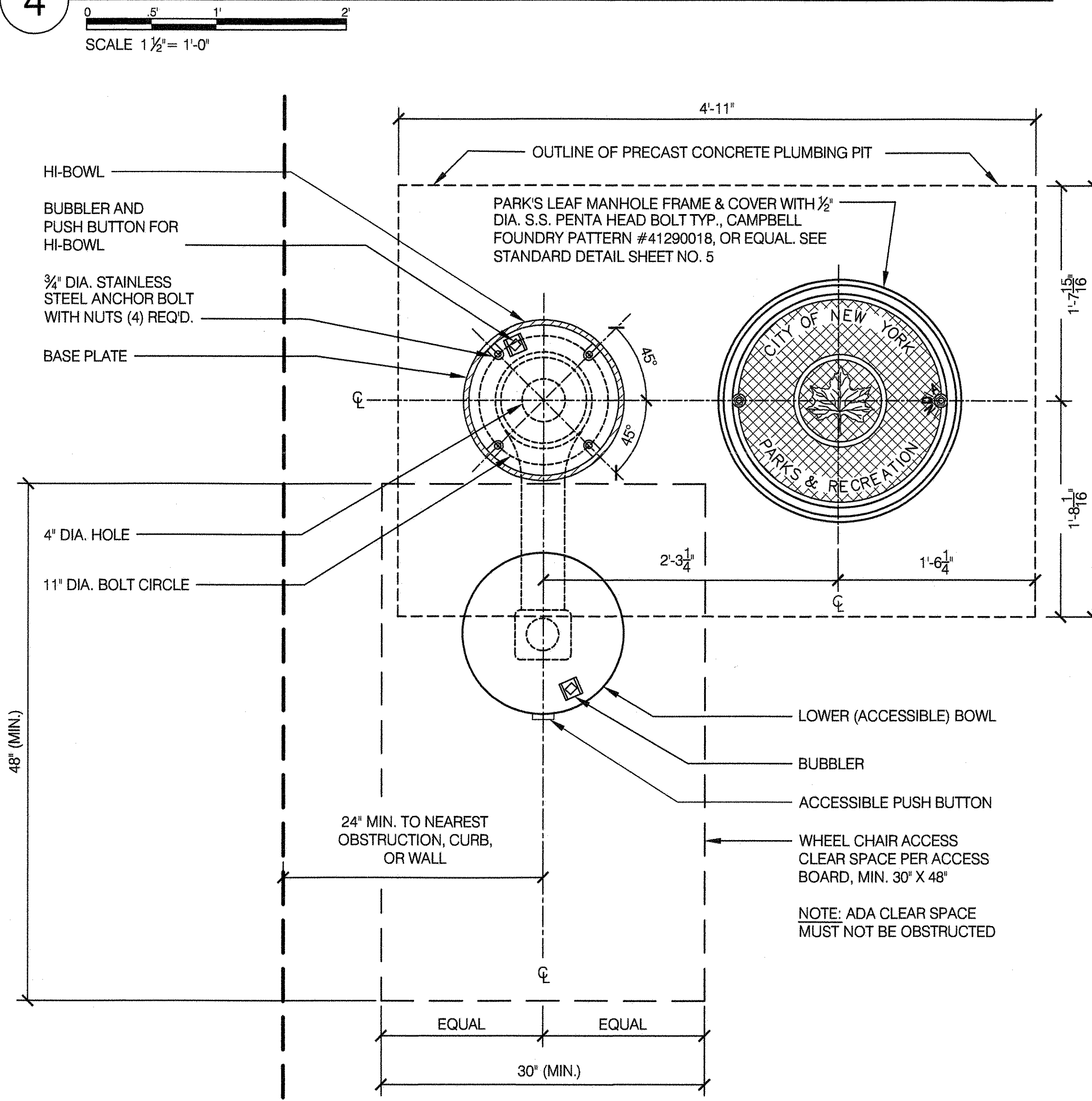


TYPE 'E' HI-LO WITH DOG BOWL
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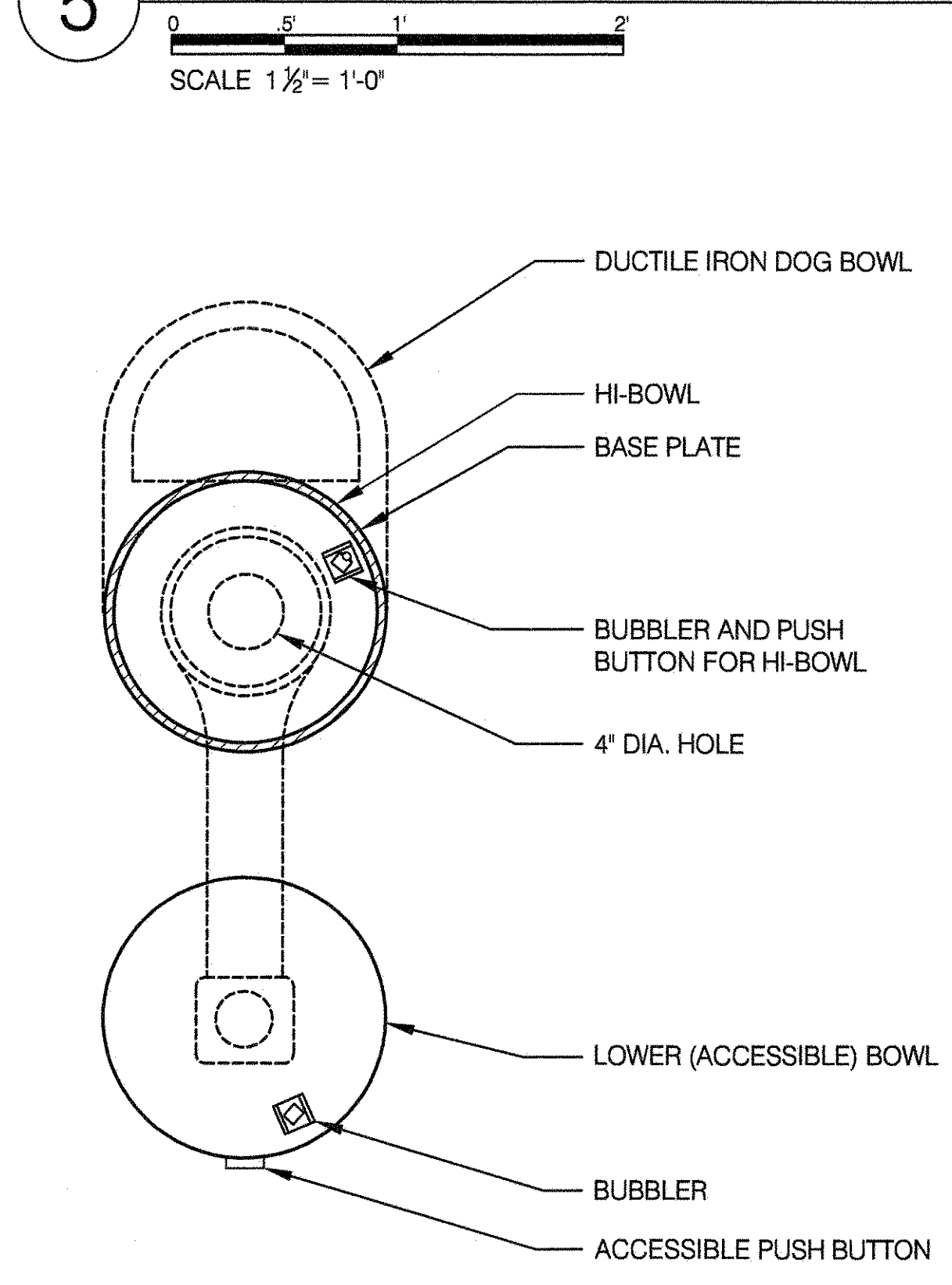
3 DRINKING FOUNTAIN PLUMBING PLAN



4 COMBINED TOP VIEW & BASE PLAN OF HI-LO DRINKING FOUNTAIN



5 PLAN OF HI-LO DRINKING FOUNTAIN W/ DOG BOWL



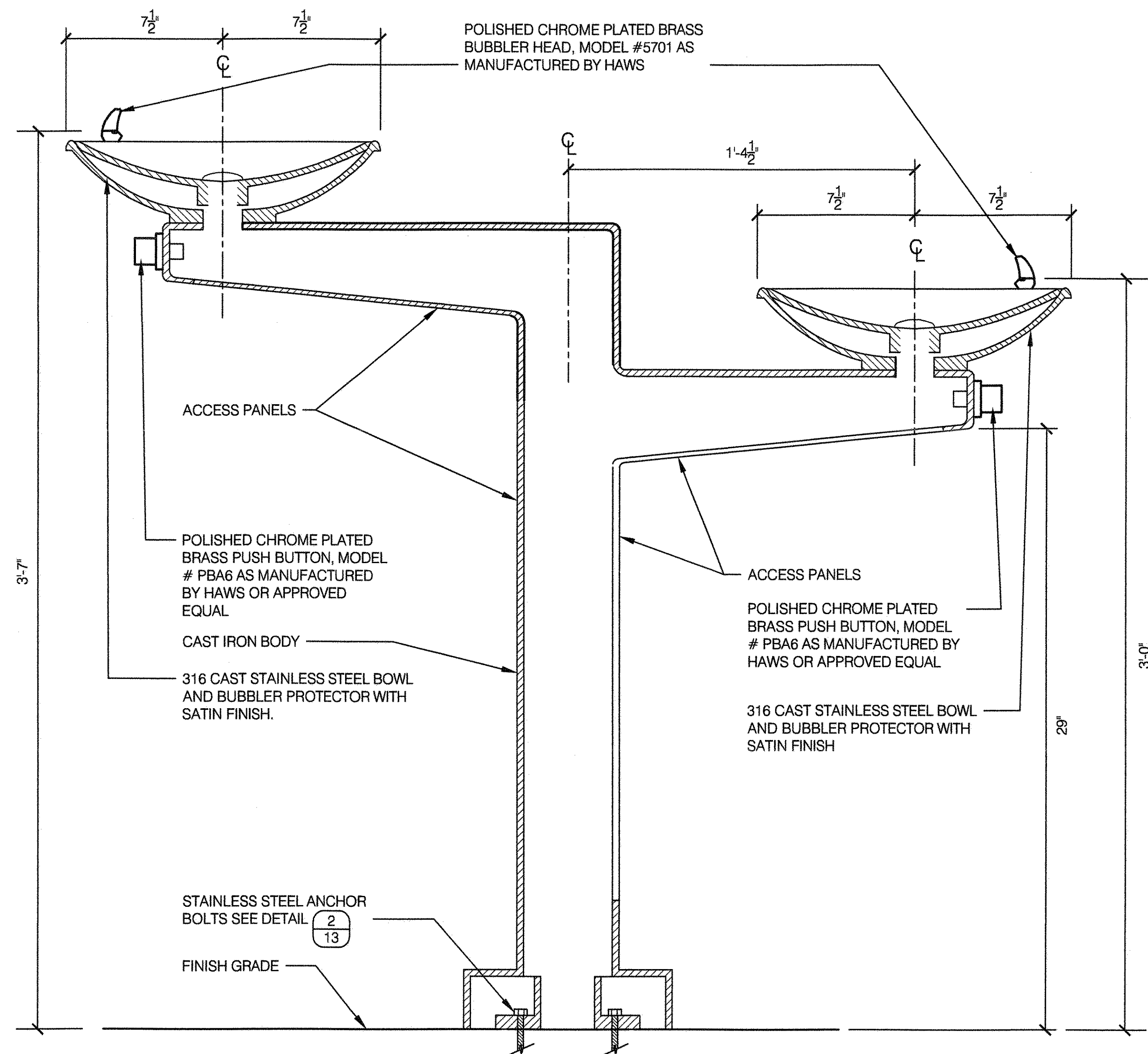
- NOTES:
- CAST DUCTILE IRON BODY, STAINLESS STEEL BOWL, BUBBLER, AND ALL INTERNAL MECHANICAL WORK TO BE SUPPLIED & FACTORY INSTALLED BY CANTERBURY DESIGNS, HUNTINGTON PARK, CA OR APPROVED EQUAL.
 - ALL EXTERNAL PLUMBING WORK AND CONNECTION TO WATER SERVICE WITHIN FIVE (5) FEET FROM THE FOUNDATION WALLS ARE PAID UNDER THE UNIT PRICE ITEM "DRINKING FOUNTAIN TYPE 'E'".
 - 1/2" GATE VALVE AND 1/2" DRAIN COCK ON SERVICE LINE SHALL BE AT A SLIGHT ANGLE AWAY FROM THE WALL TO ALLOW FREE OPERATION OF STANDARD VALVE KEY.
 - ACCESSIBLE DRINKING FOUNTAINS MUST BE PLACED ON PAVED SURFACES.

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DRAWING TITLE DRINKING FOUNTAIN - TYPE 'E'	
DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 12
	SCALE AS SHOWN

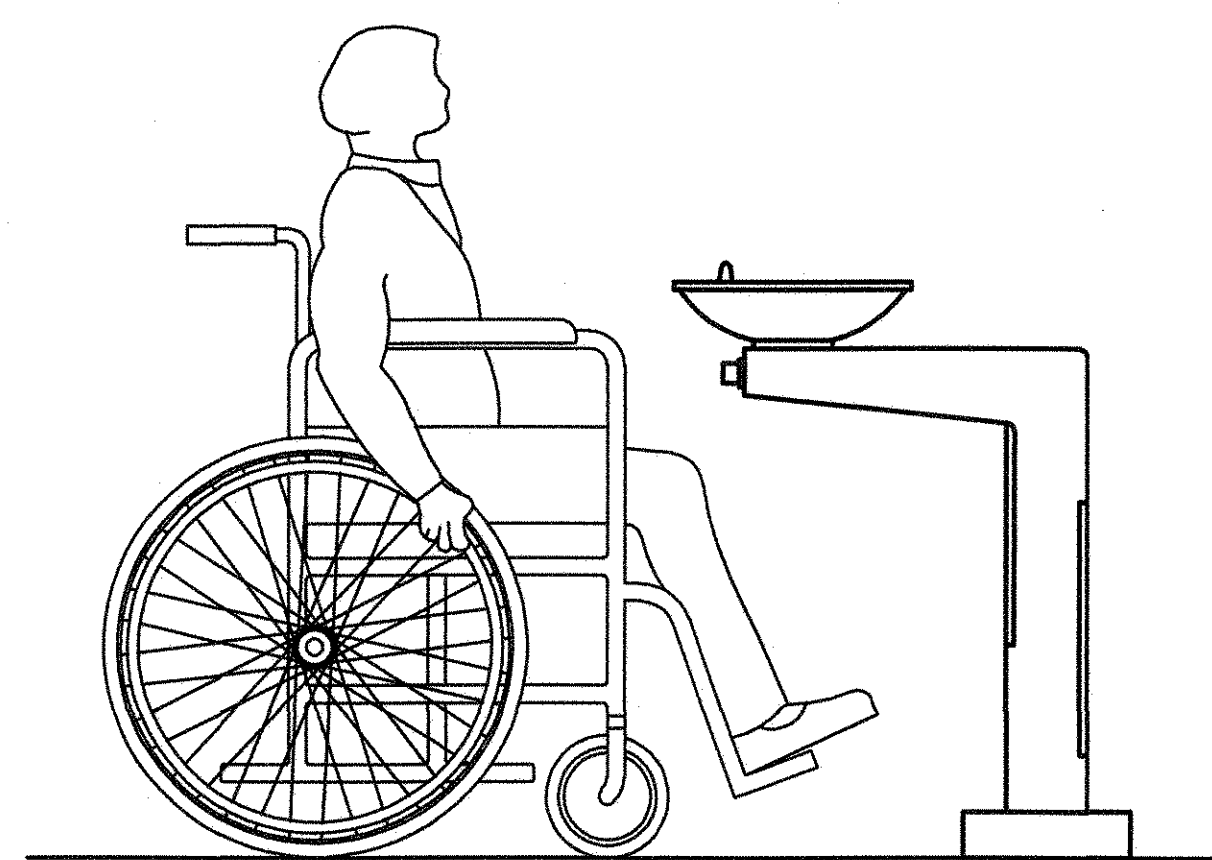
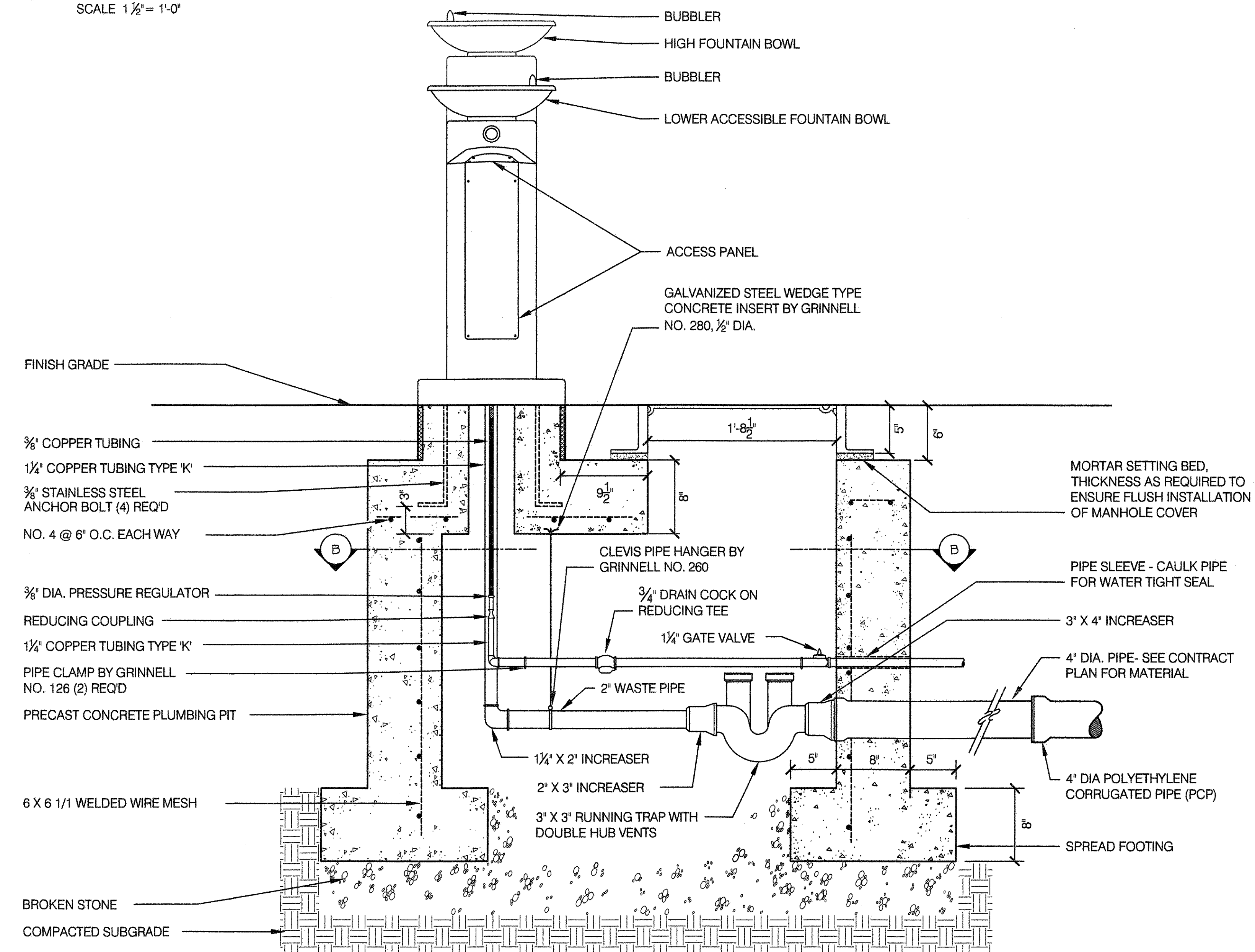
1 DRINKING FOUNTAIN - TYPE 'F' HI-LO

SCALE 3" = 1'-0"

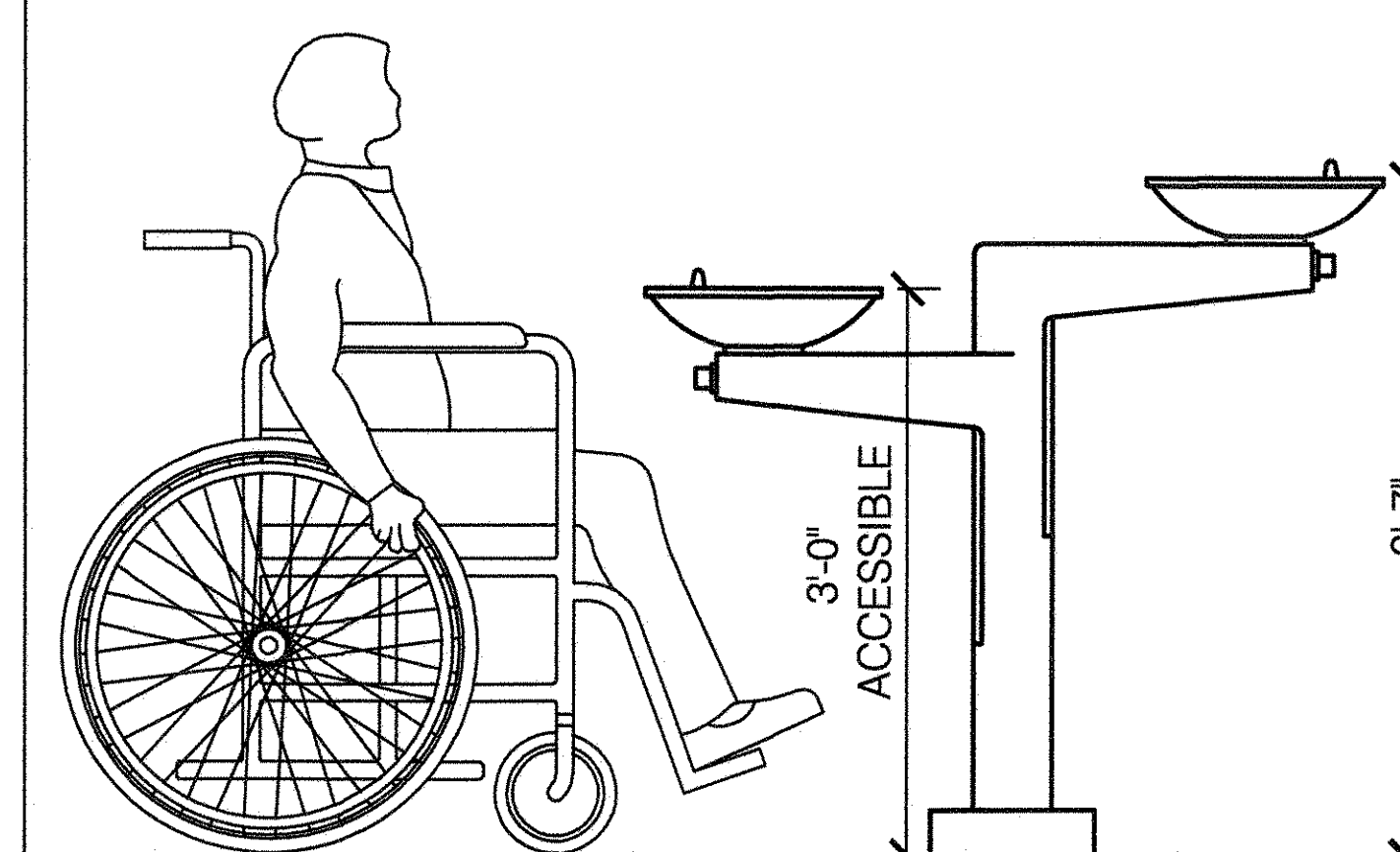


2 FRONT VIEW ELEVATION/ SECTION (HI-LO)

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



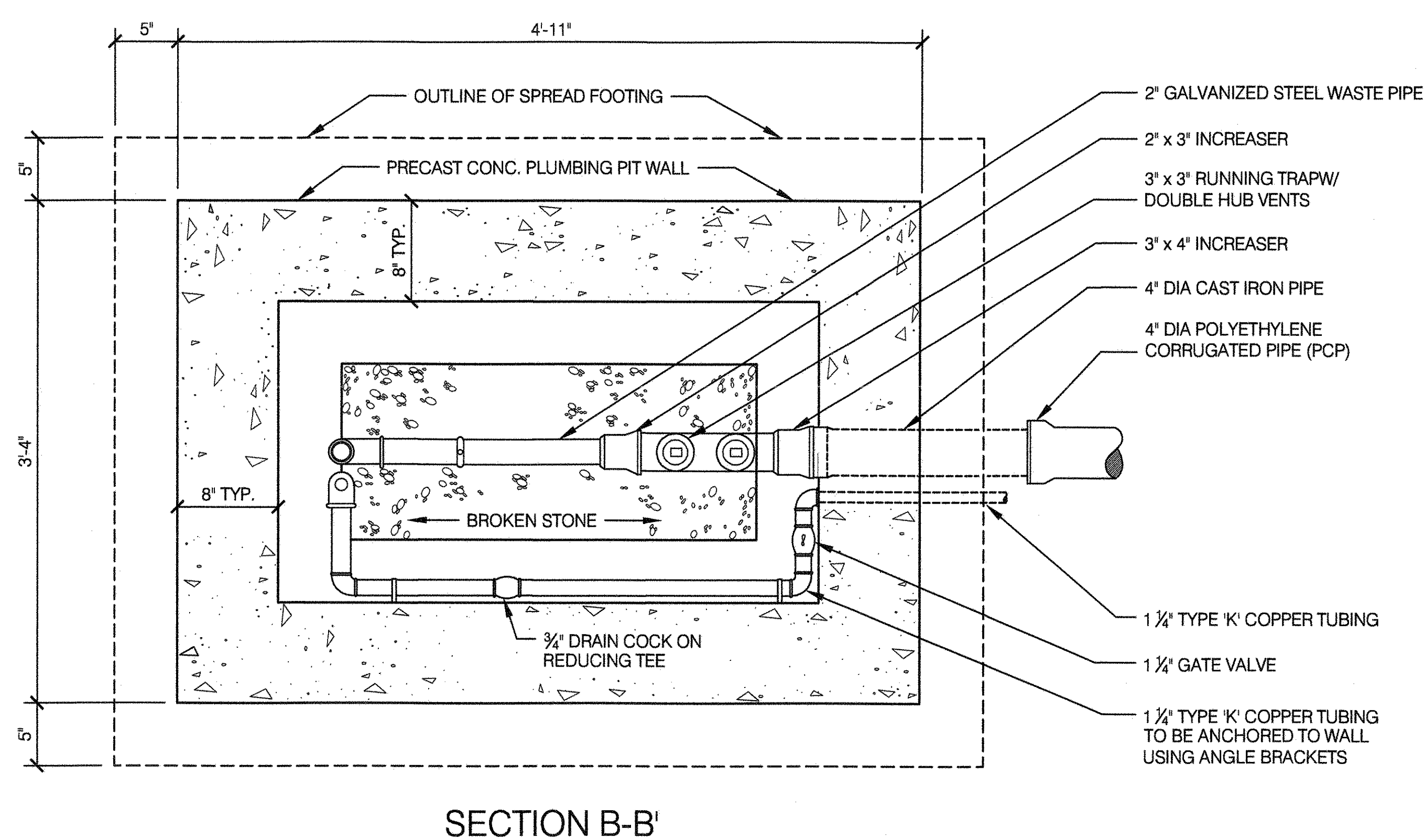
TYPE 'F'



TYPE 'F' HI-LO

3 DRINKING FOUNTAIN PLUMBING PLAN

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

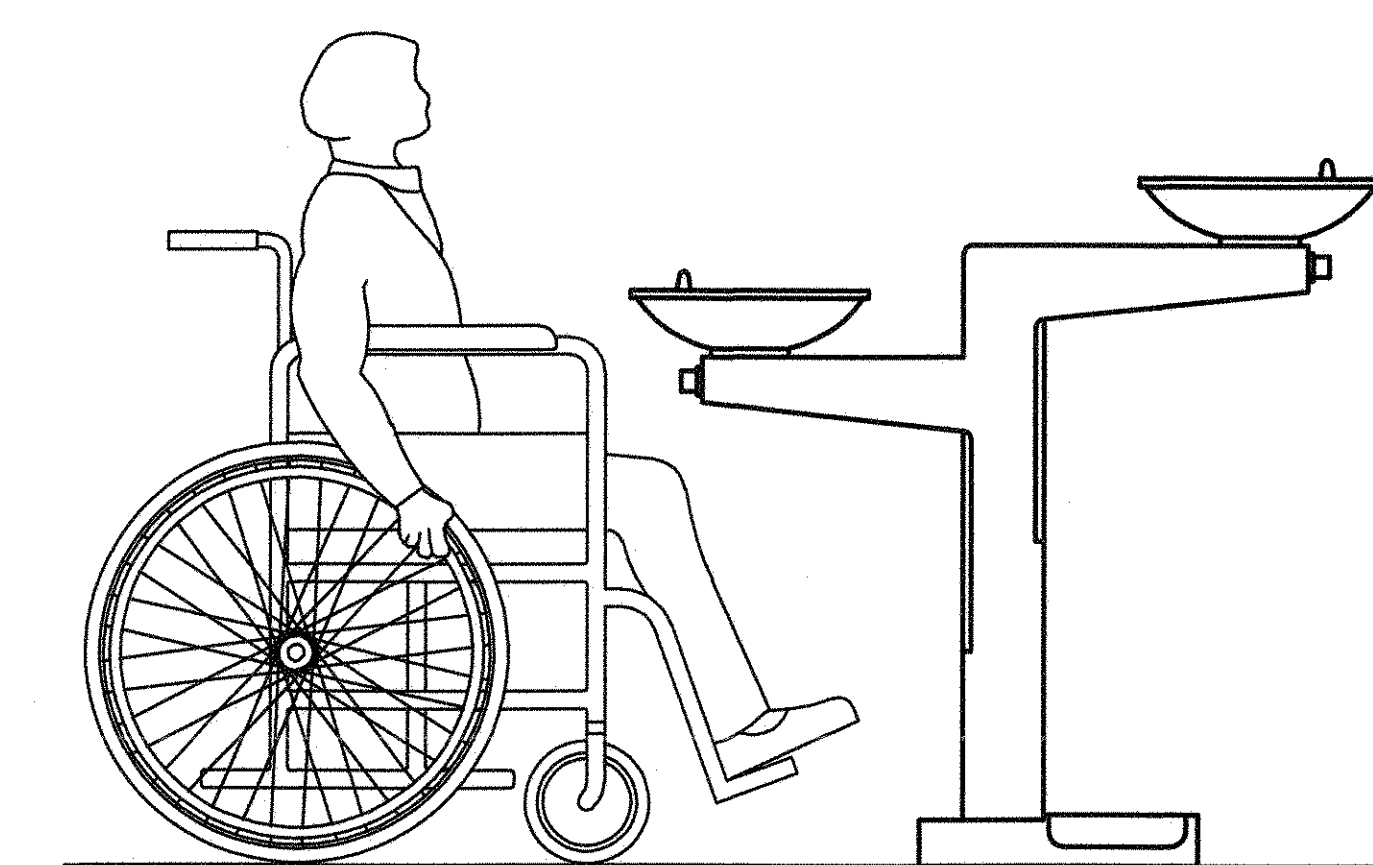
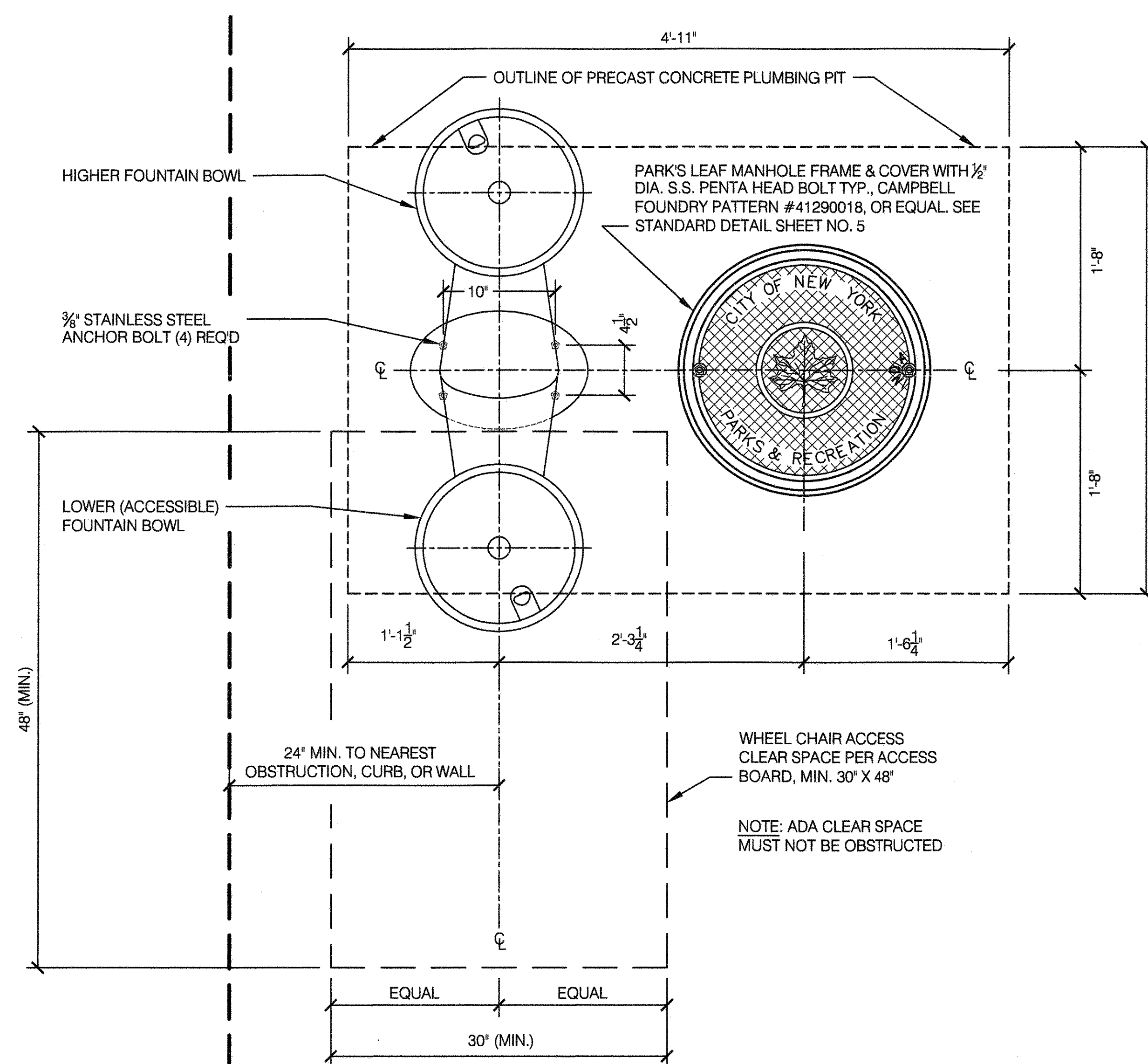


NOTES:

- CAST DUCTILE IRON BODY, CAST BRONZE OR STAINLESS STEEL BOWL (SEE SPEC), BUBBLER, AND ALL INTERNAL MECHANICAL WORK SUPPLIED & FACTORY INSTALLED BY MANUFACTURER. FOUNTAIN SHALL BE THE LOS ANGELES FOUNTAIN, AS MANUFACTURED BY CANTERBURY DESIGNS, HUNTINGTON PARK, CA OR APPROVED EQUAL.
- ALL EXTERNAL PLUMBING WORK AND CONNECTION TO WATER SERVICE WITHIN FIVE (5) FEET FROM THE FOUNDATION WALLS ARE PAID UNDER THE UNIT PRICE ITEM 'DRINKING FOUNTAIN TYPE 'F'.
- 1 1/4" GATE VALVE AND 3/4" DRAIN COCK ON SERVICE LINE SHALL BE AT A SLIGHT ANGLE AWAY FROM THE WALL TO ALLOW FREE OPERATION OF STANDARD VALVE KEY.
- ACCESSIBLE DRINKING FOUNTAINS MUST BE PLACED ON PAVED SURFACES.

4 COMBINED TOP VIEW & BASE PLAN (HI-LO)

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



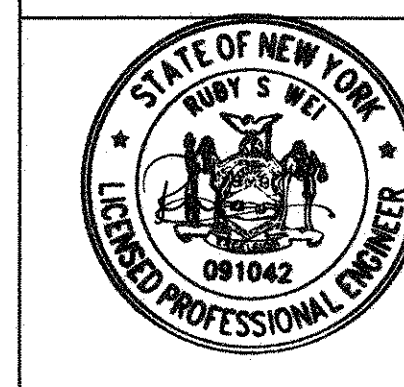
TYPE 'F' HI-LO WITH DOG BOWL



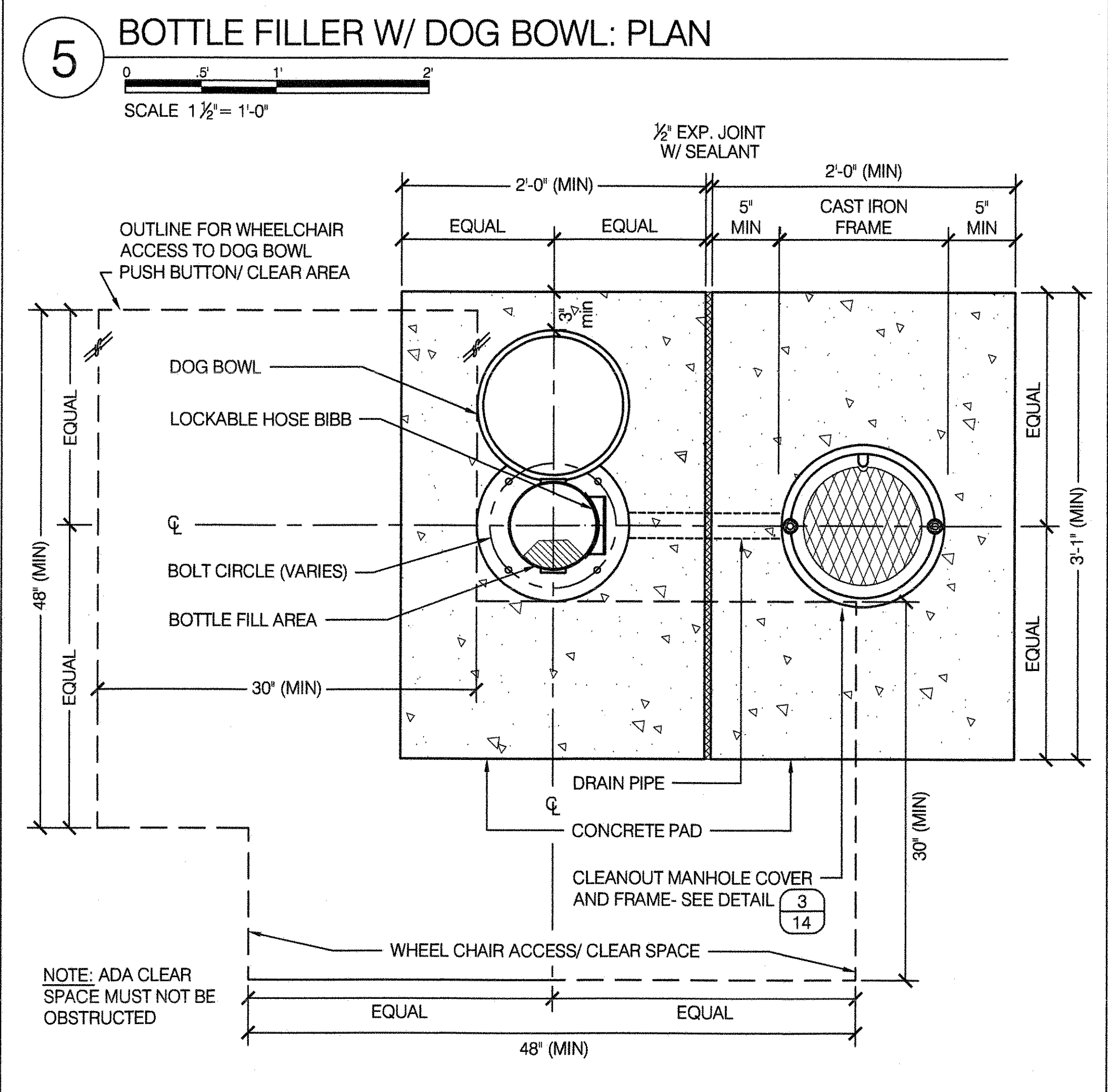
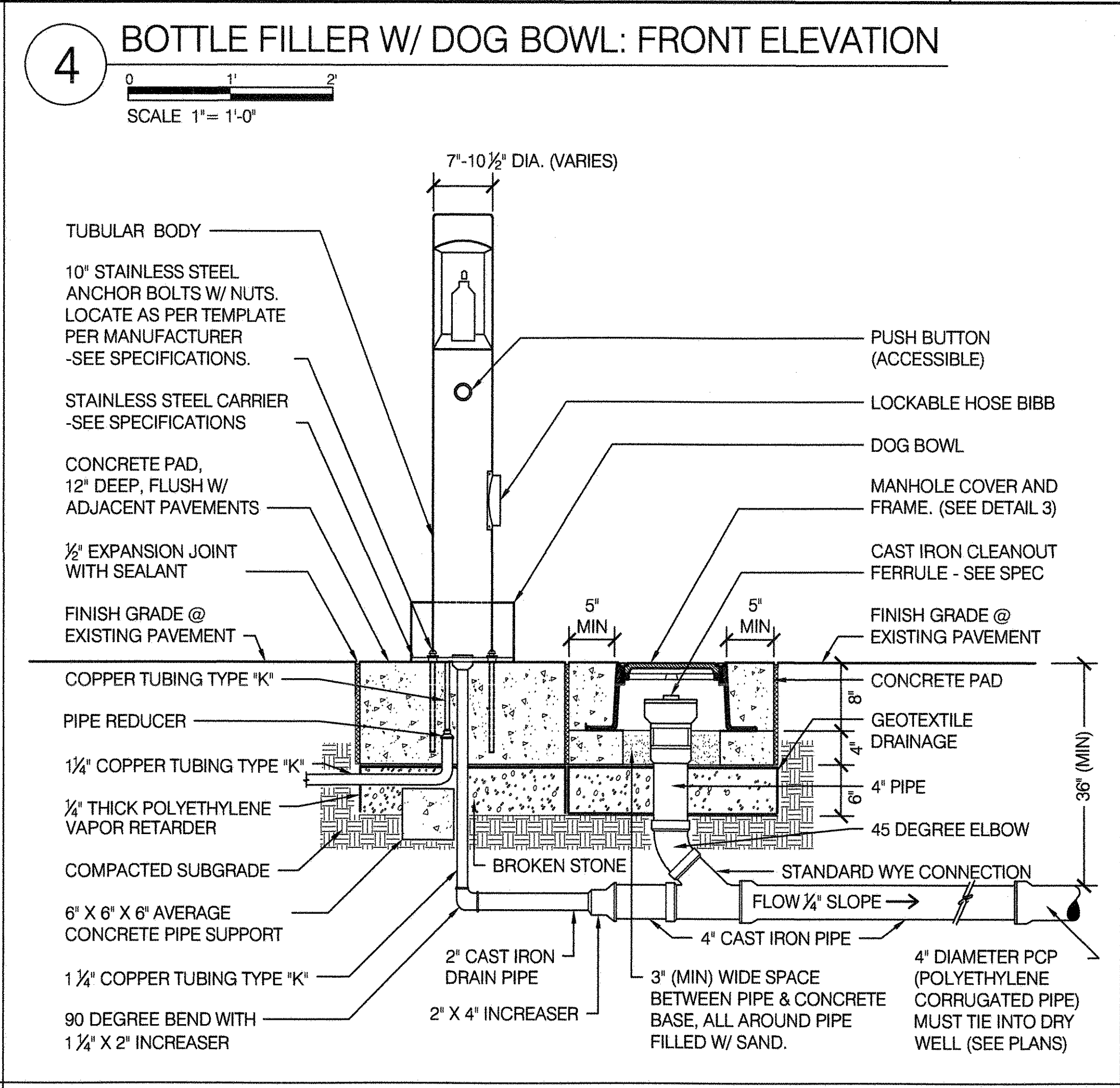
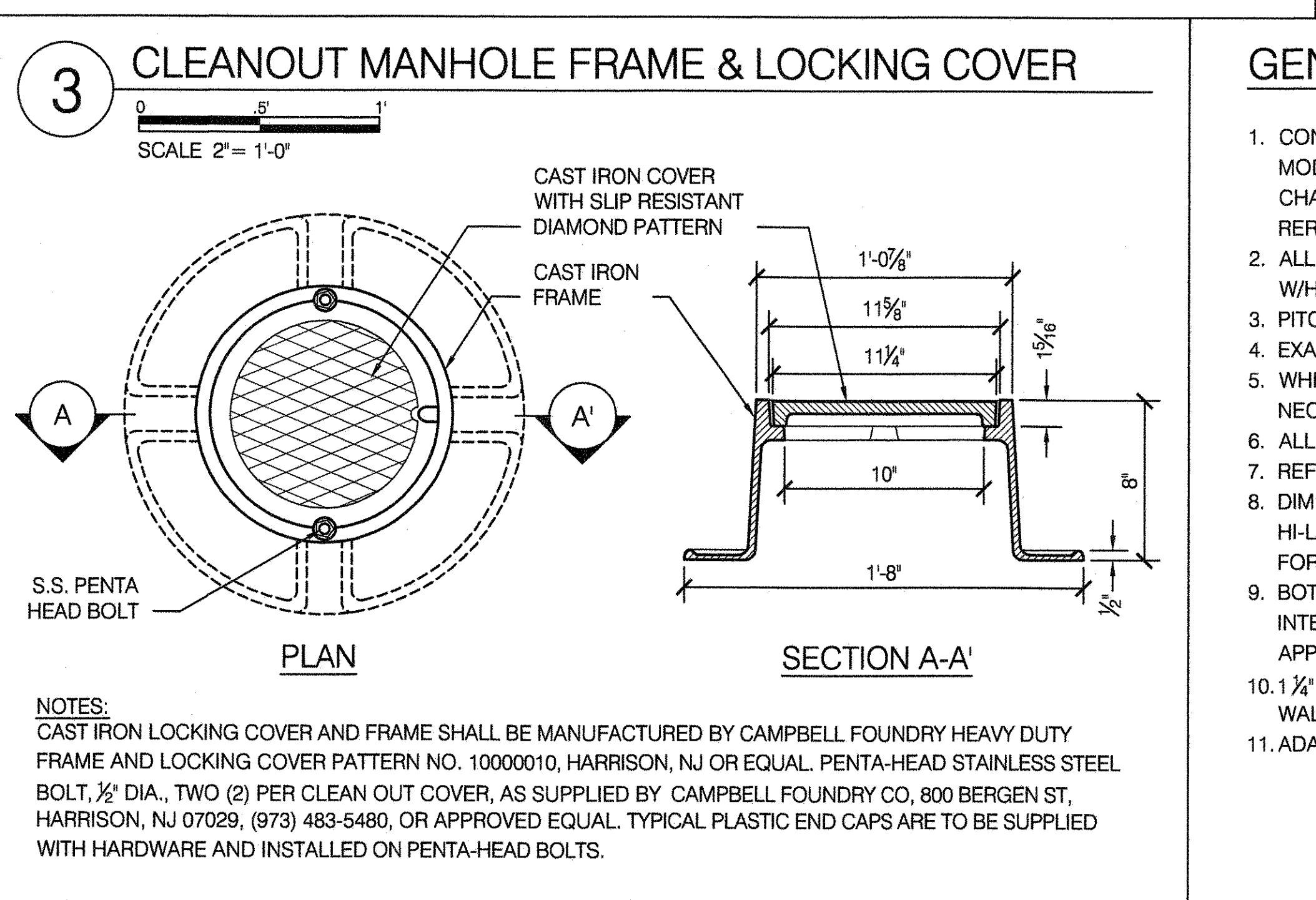
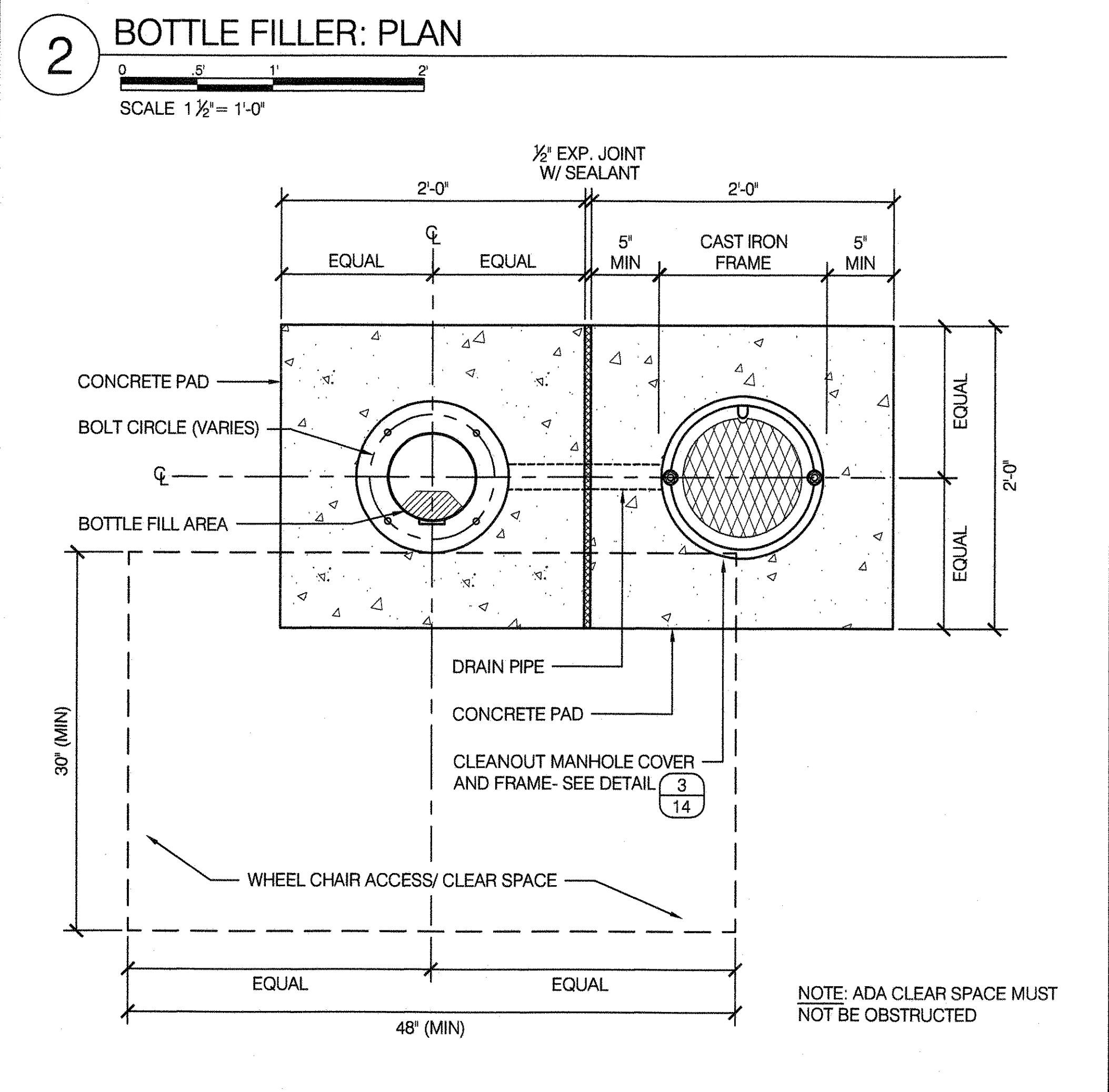
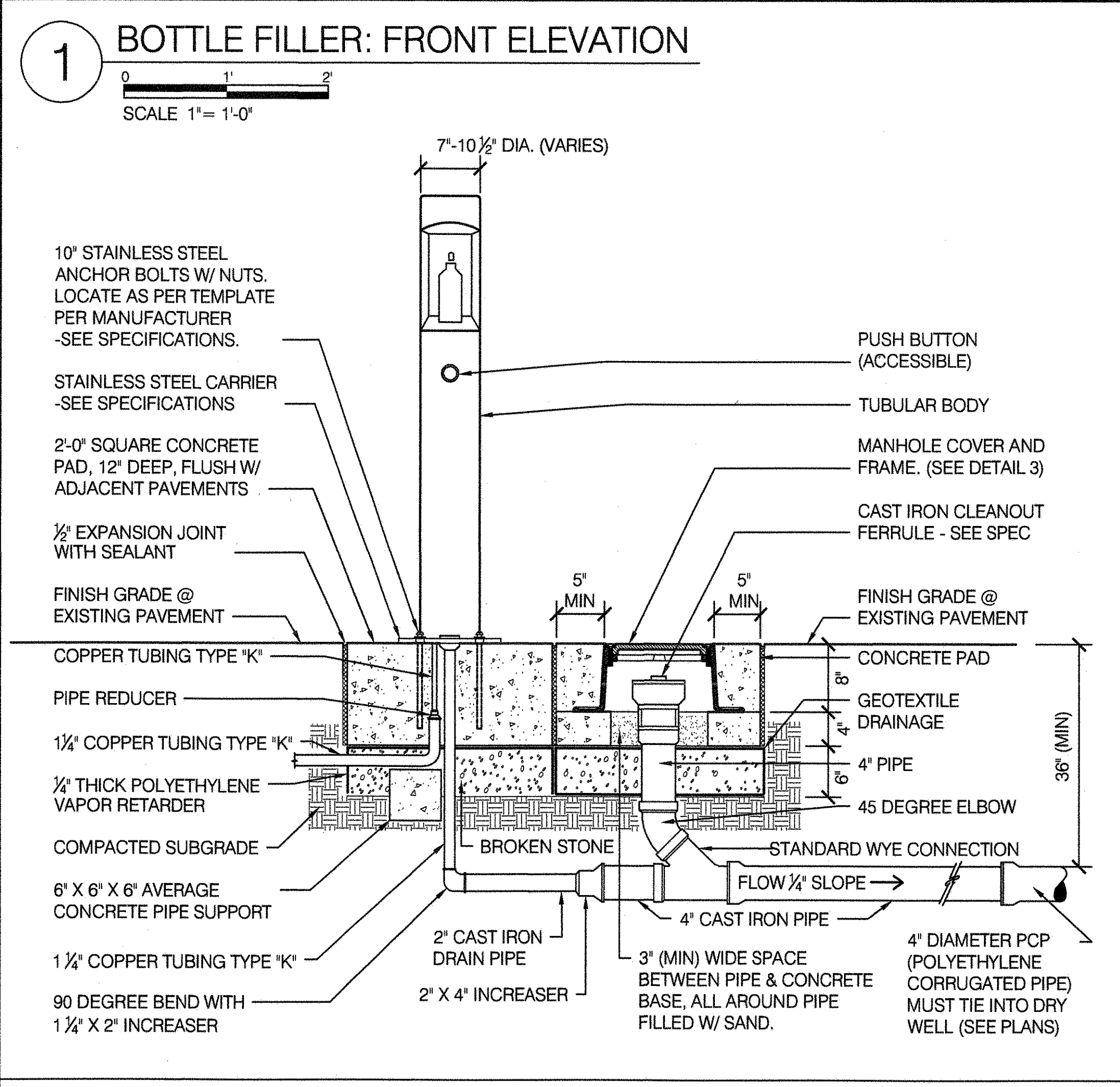
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DRAWING TITLE
DRINKING FOUNTAIN - TYPE 'F'

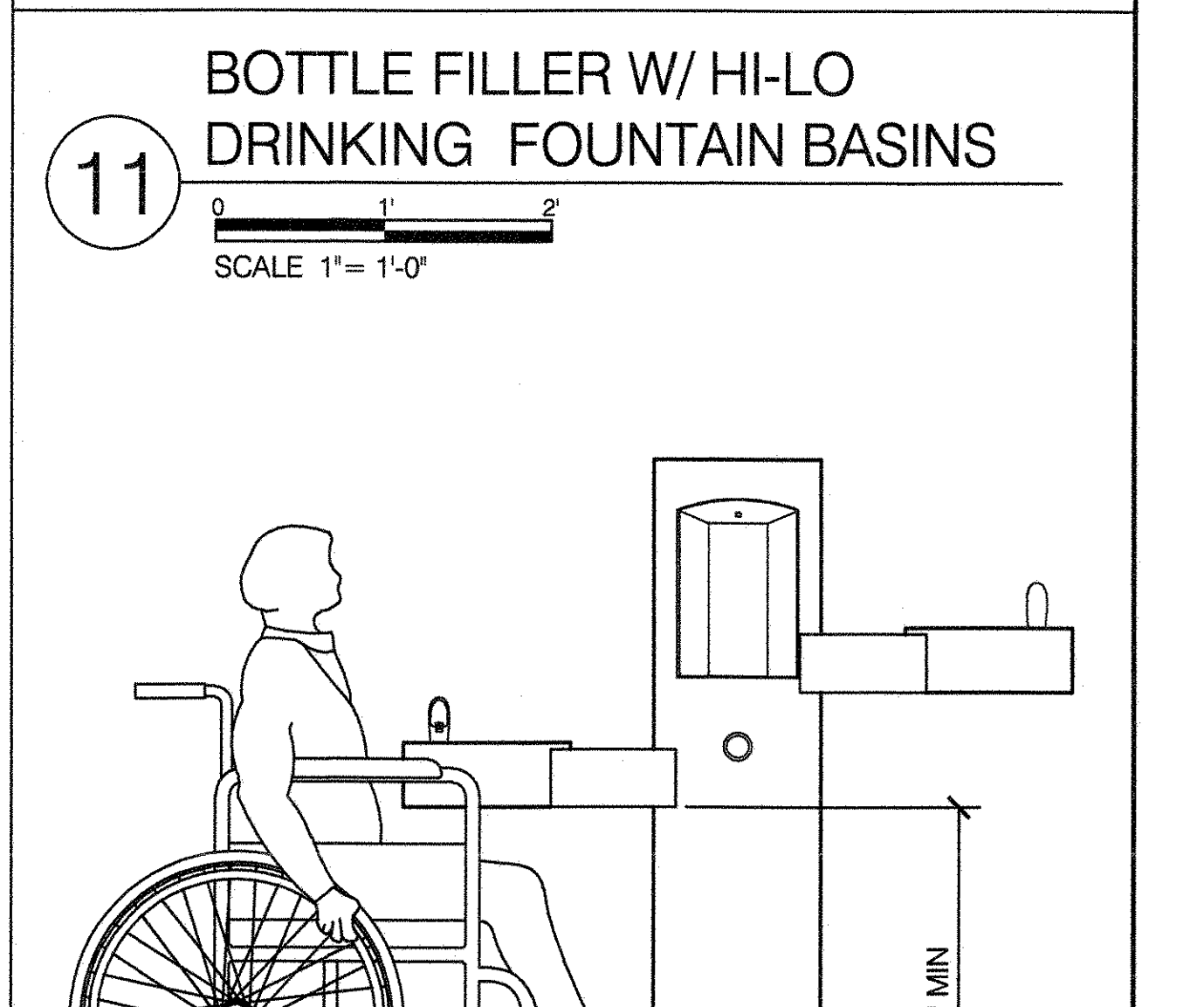
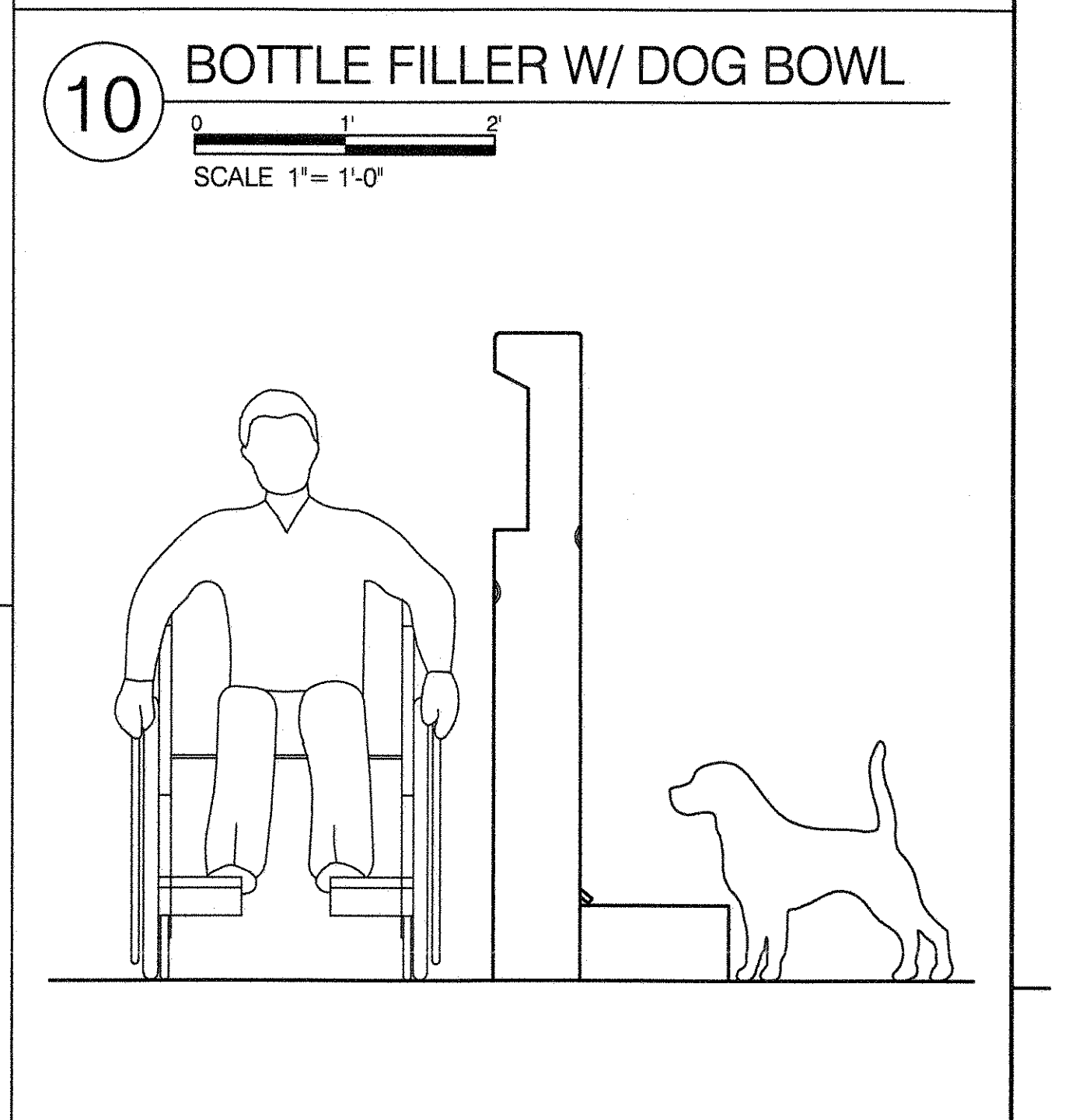
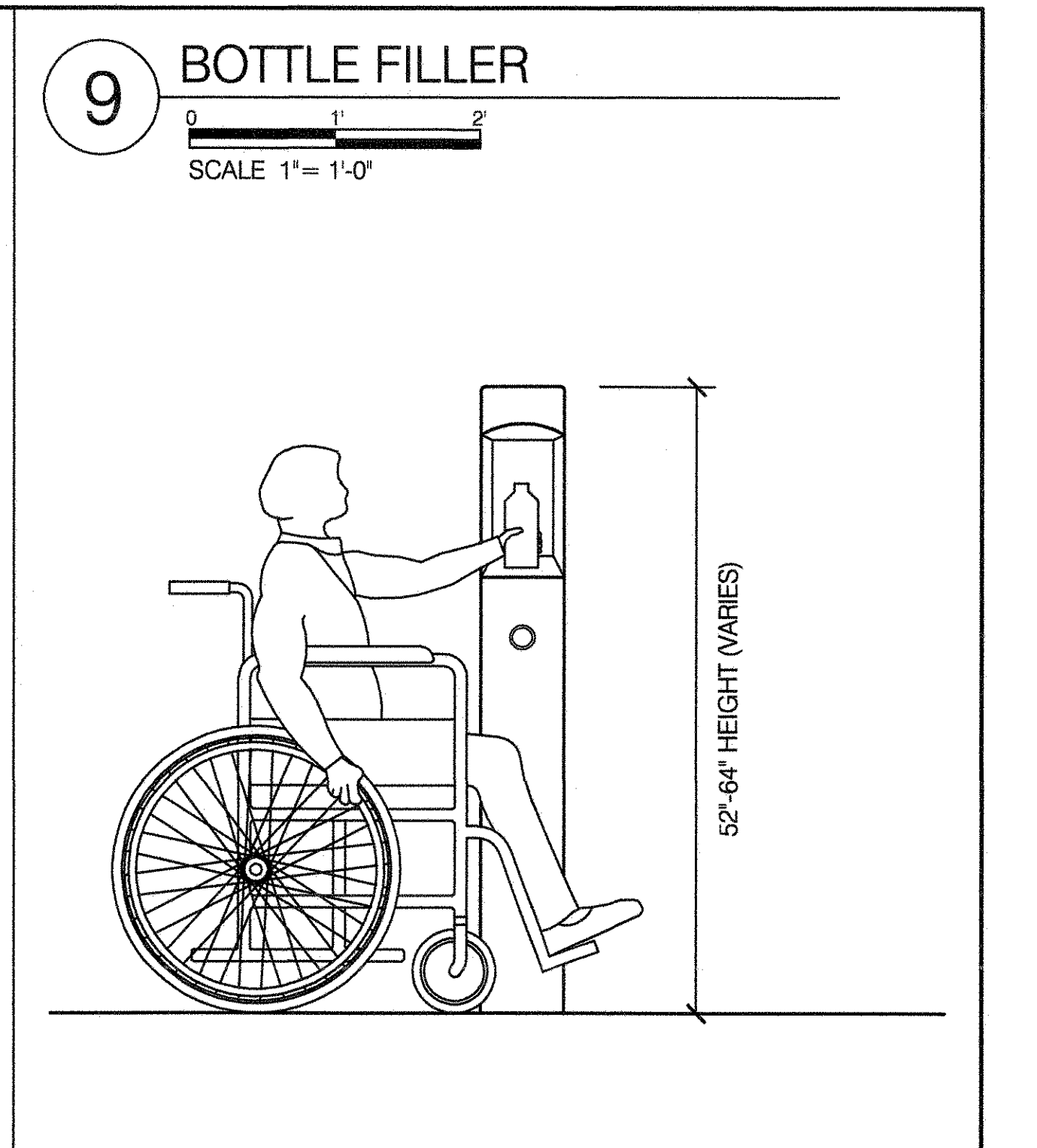
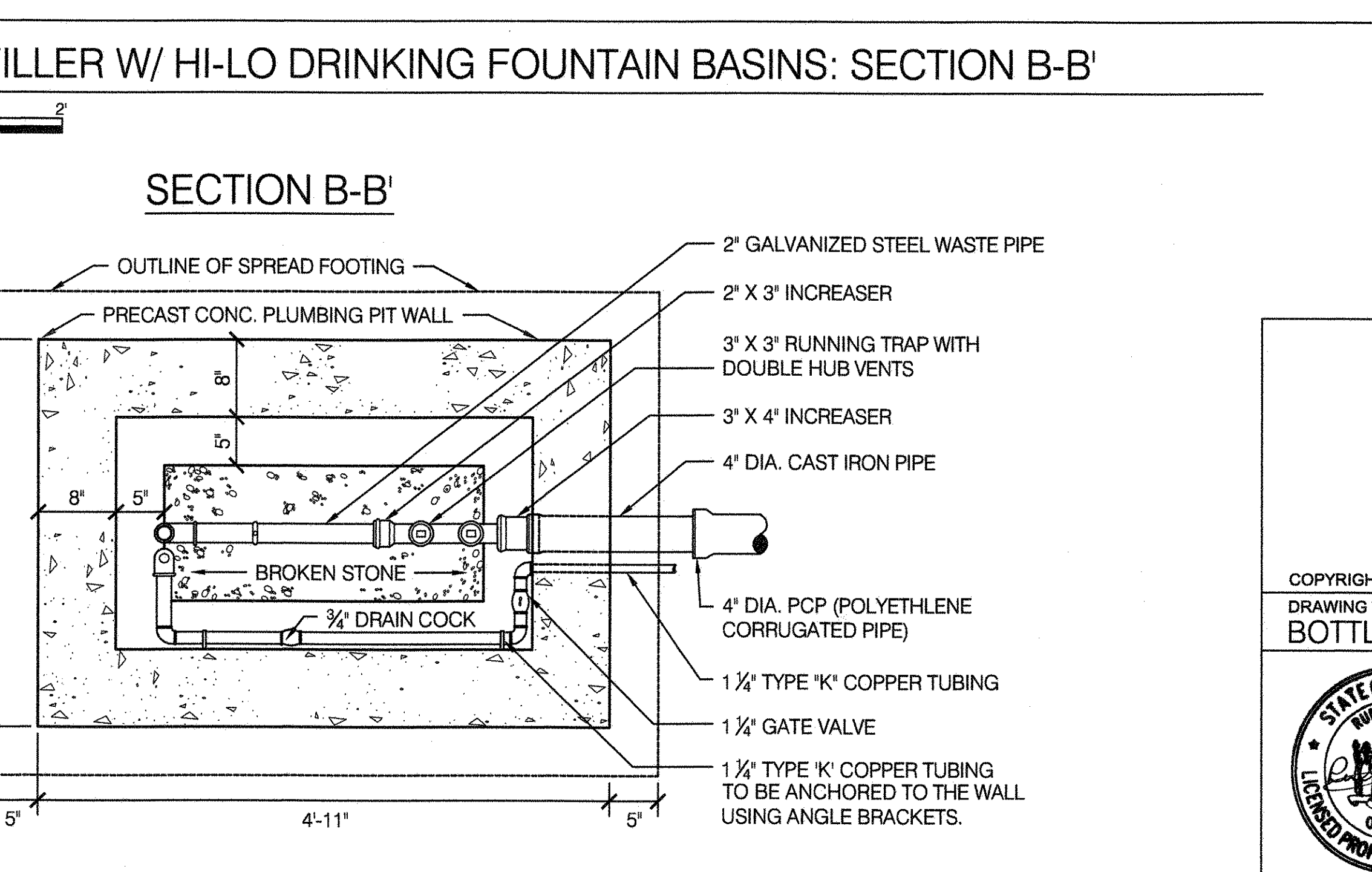
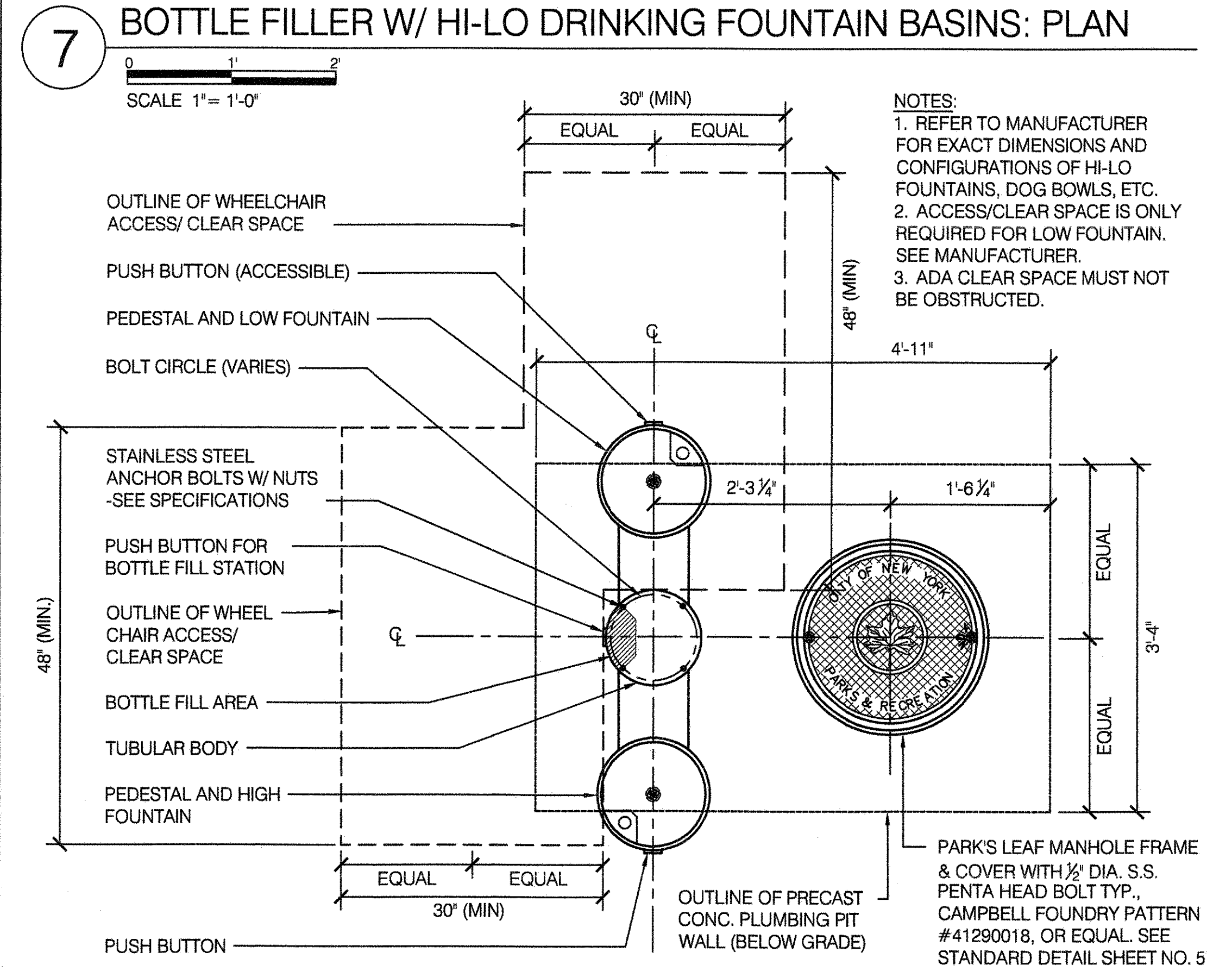
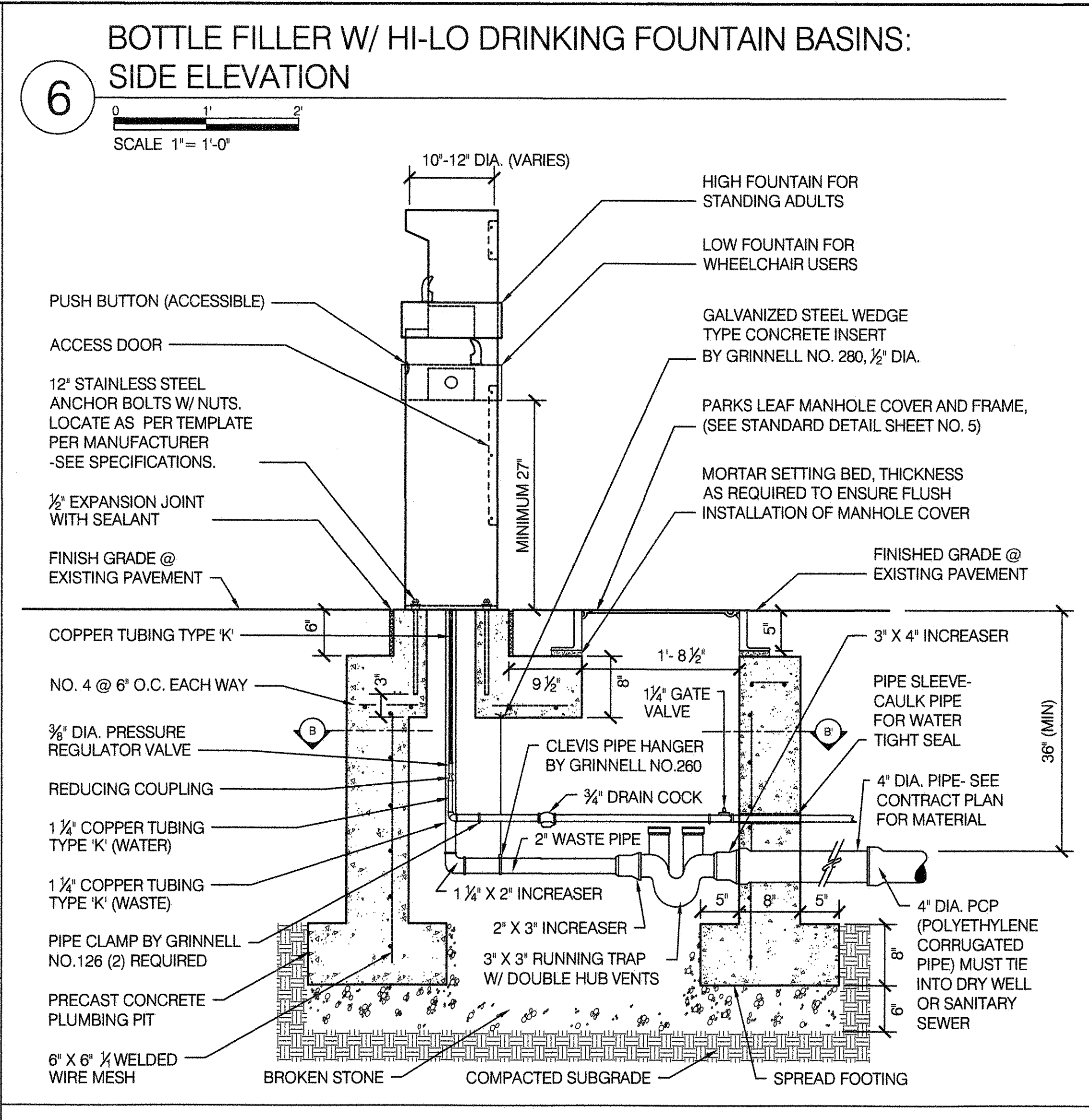


DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 13
	SCALE AS SHOWN



GENERAL NOTES:

- CONTRACTOR TO VERIFY LOCATION OF WATER AND OTHER PIPING ON-SITE, AND MAKE MODIFICATIONS AS NECESSARY AT NO EXTRA COST TO THE CITY OF NEW YORK. PROPOSED CHANGES MUST BE SUBMITTED FOR APPROVAL PRIOR TO THE START OF ANY CONSTRUCTION WORK. REROUTING OF PIPES WILL NOT BE CONSIDERED APPROPRIATE FOR CHANGE ORDERS.
- ALL WHEELCHAIR ACCESSIBLE 'BOTTLE FILLER', 'BOTTLE FILLER W/ DOG BOWL', & 'BOTTLE FILLER W/ HI-LO DRINKING FOUNTAIN BASINS' MUST BE PLACED ON PAVED SURFACES.
- PITCH PAVEMENT SURFACES AWAY FROM BOTTLE FILLERS.
- EXACT LOCATIONS OF DRY WELLS SHOWN ON CONTRACT DRAWINGS.
- WHEN LAYING PIPE, WHEREVER POSSIBLE, AVOID ALL TREES, BENCHES AND FOOTINGS. WHERE NECESSARY, PROVIDE PIPE SLEEVES THROUGH WALLS, TREE PITS AND/OR FOOTINGS.
- ALL CONCRETE SHOWN SHALL BE 3200 PSI AVERAGE CONCRETE.
- REFER TO SHEET 3, STANDARD DETAIL 8 FOR BEDDING FOR DUCTILE IRON PIPE.
- DIMENSIONS OF ALL 'BOTTLE FILLERS', 'BOTTLE FILLERS W/ DOG BOWLS', AND 'BOTTLE FILLER W/ HI-LO DRINKING FOUNTAIN BASINS' VARIES ACCORDING TO MANUFACTURER. SEE MANUFACTURER FOR SPECIFIC DIMENSIONS & DETAILS.
- BOTTLE FILLER TUBULAR BODY, STAINLESS STEEL BOWL, BUBBLER, ACCESS DOORS AND ALL INTERNAL MECHANICAL WORK TO BE SUPPLIED & FACTORY INSTALLED BY MANUFACTURER OR APPROVED EQUAL. SEE SPECIFICATIONS.
- 1 1/2" GATE VALVE AND 3/4" DRAIN COCK SERVICE LINE SHALL BE AT A SLIGHT ANGLE AWAY FROM THE WALL TO ALLOW FREE OPERATION OF STANDARD VALVE KEY. (DETAILS 6 & 8)
- ADA CLEAR SPACE MUST NOT BE OBSTRUCTED.



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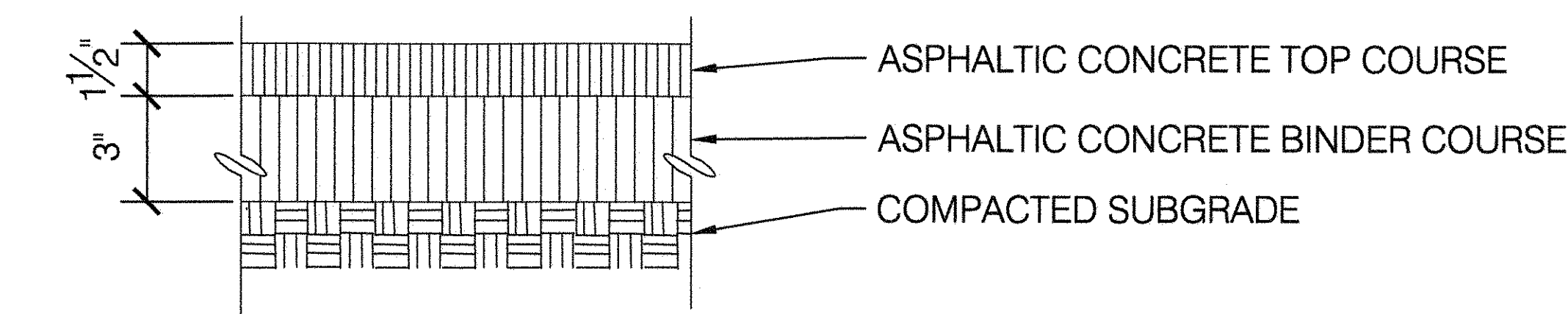
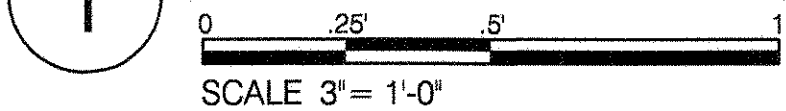
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DRAWING TITLE
BOTTLE FILLER

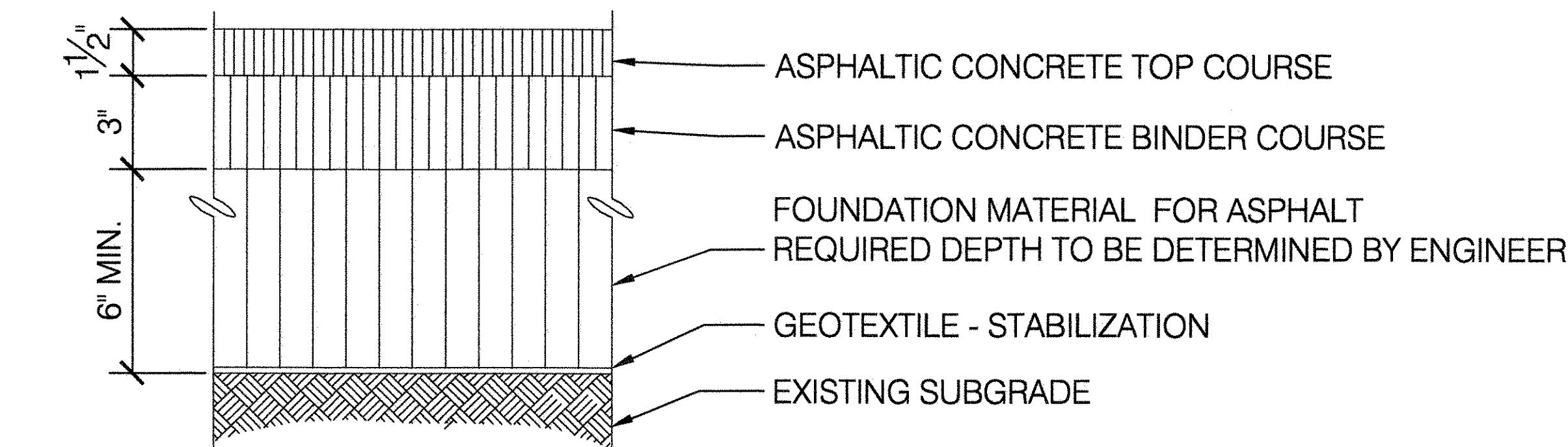
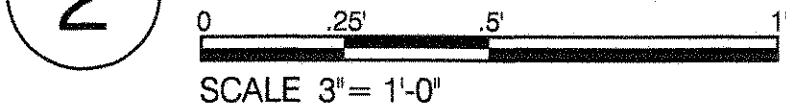
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APPROVED BY	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY S. WEI, PE	SHEET NO. 14
DATE 09-01-2020	SCALE AS SHOWN

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091042

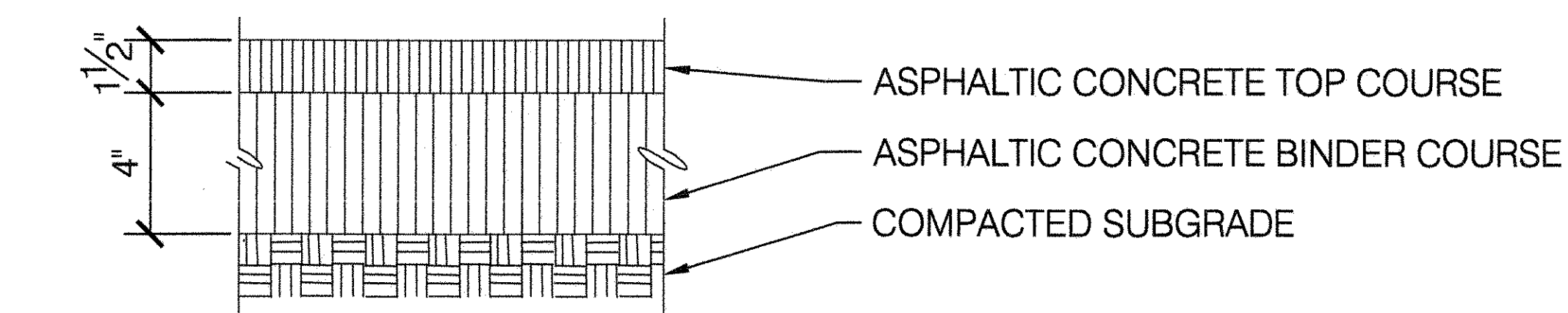
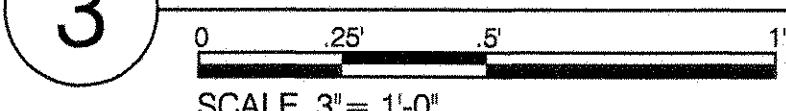
1 FULL DEPTH ASPHALT PAVEMENT



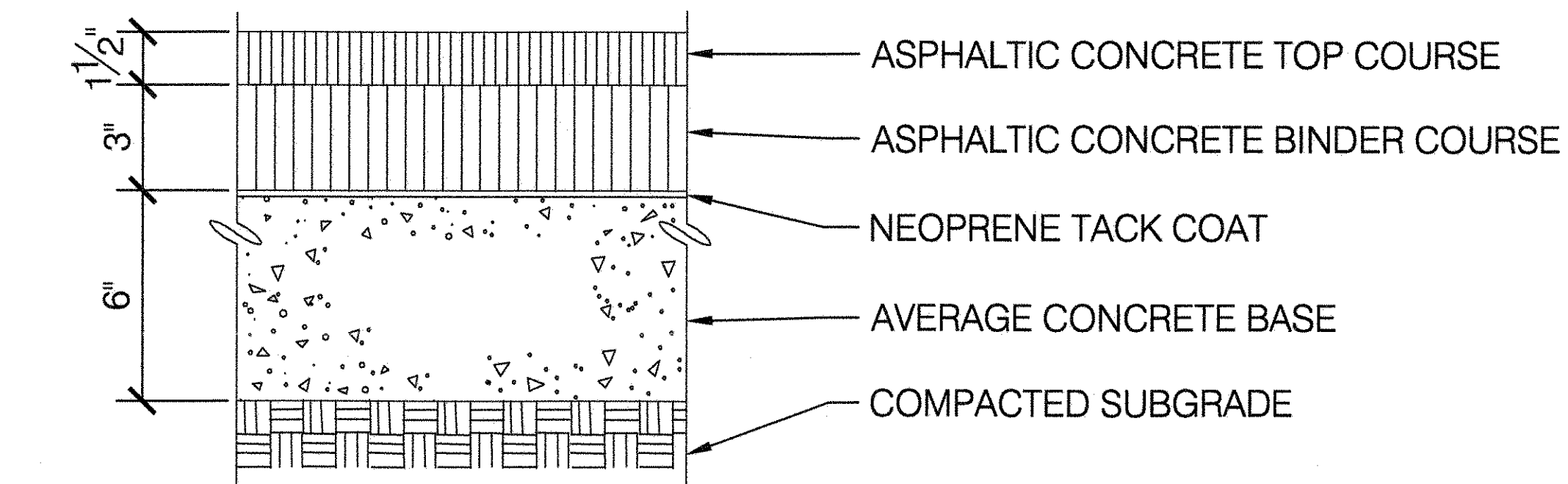
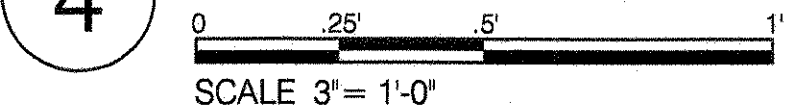
2 ASPHALT PAVEMENT ON POOR SUBGRADE



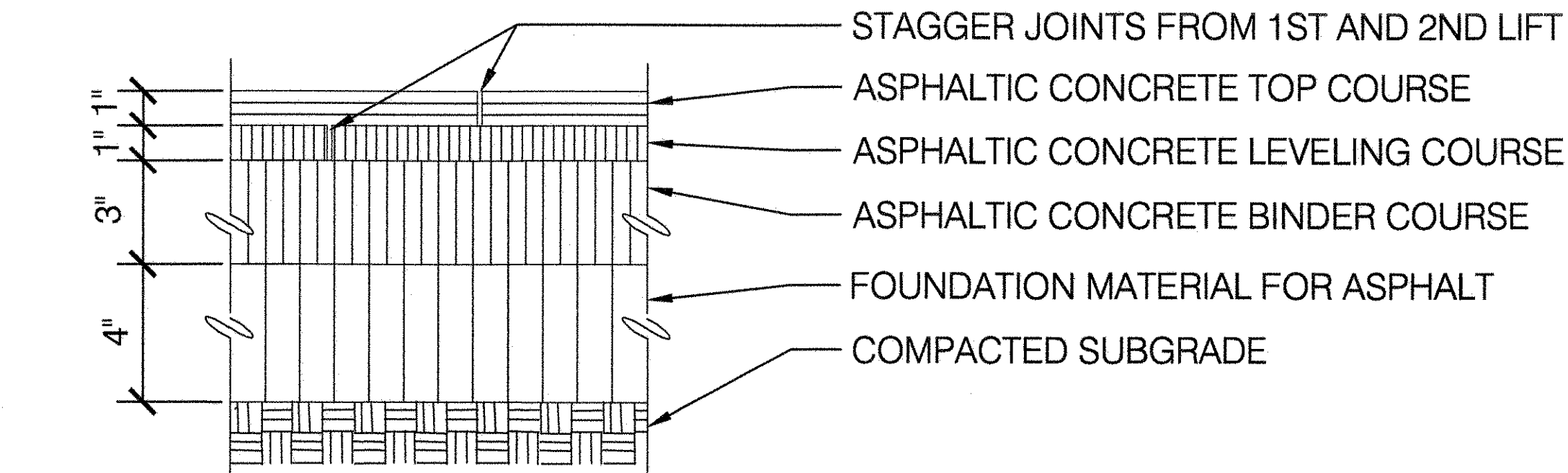
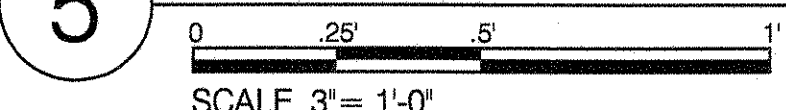
3 ASPHALT PAVEMENT FOR PARKING LOTS AND MINOR PAVED ROADS



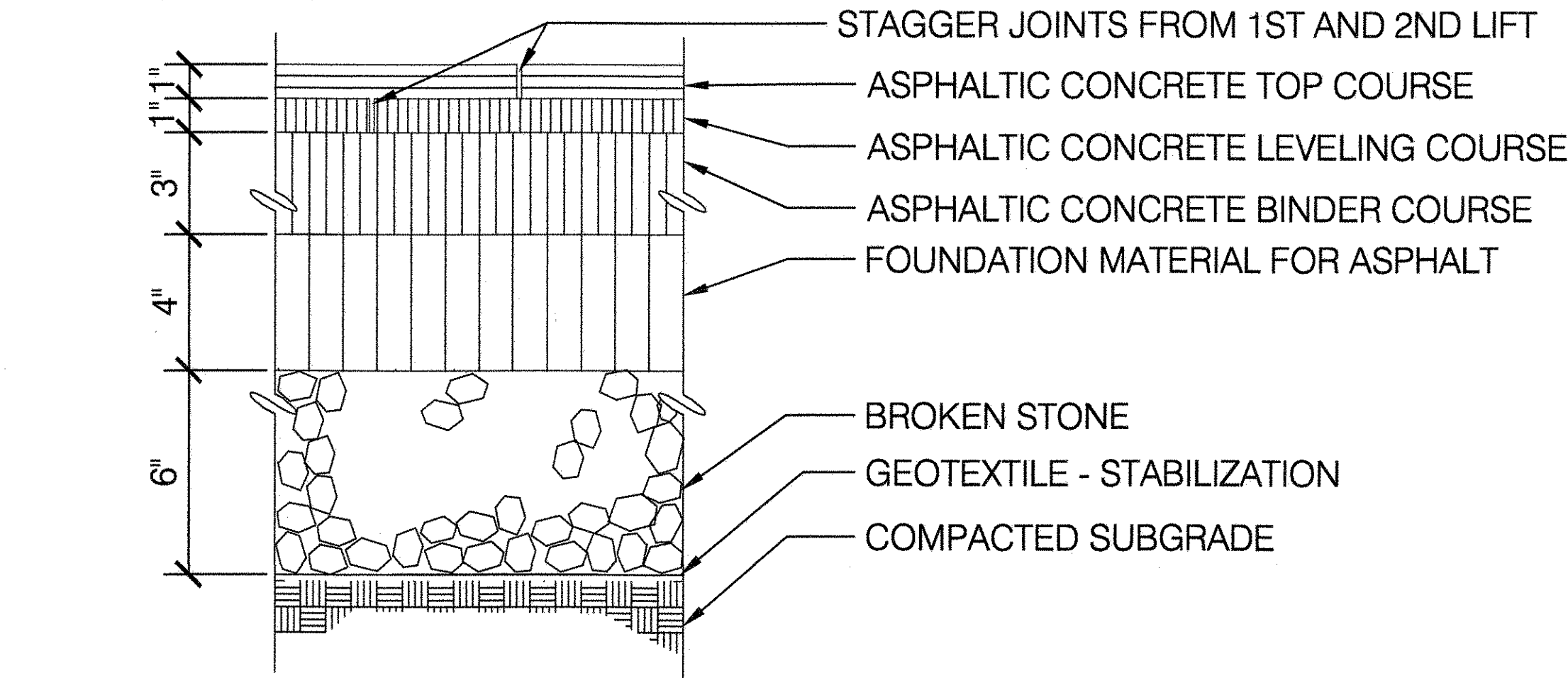
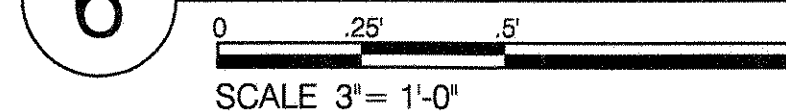
4 ASPHALT PAVEMENT FOR PARK ROADS AND PATHS



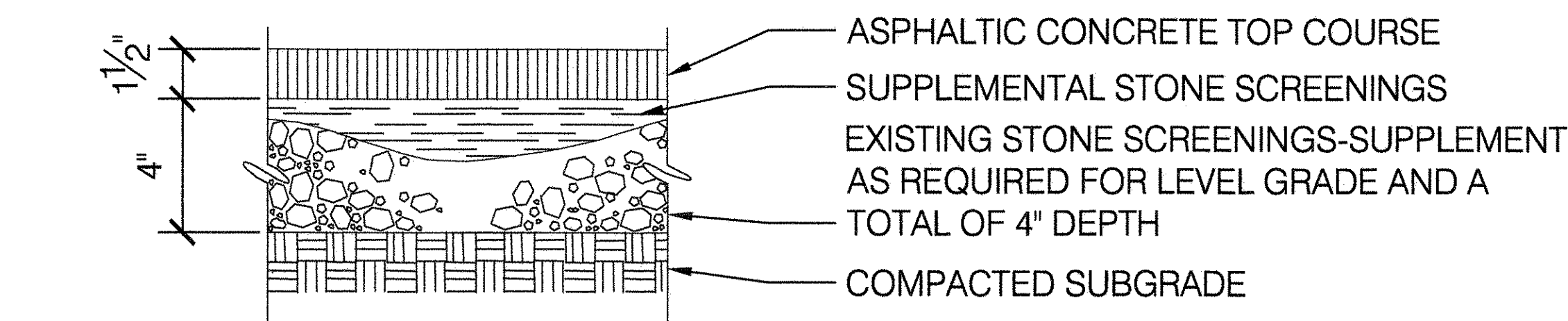
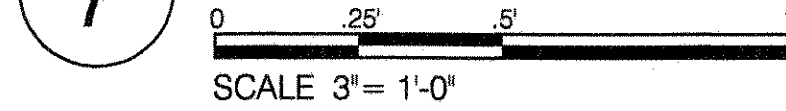
5 ASPHALT PAVEMENT FOR TENNIS COURTS & RUNNING TRACKS



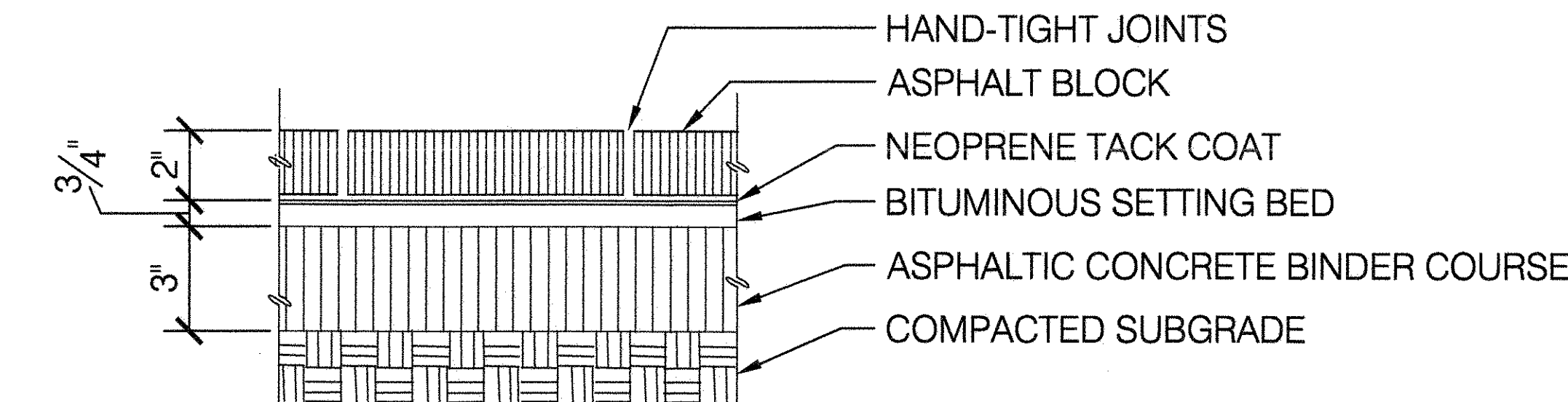
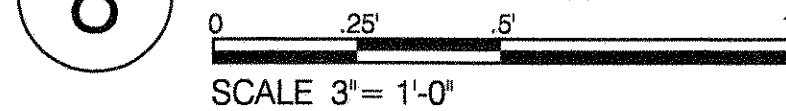
6 ASPHALT FOR TENNIS COURTS ON POOR SUBGRADE



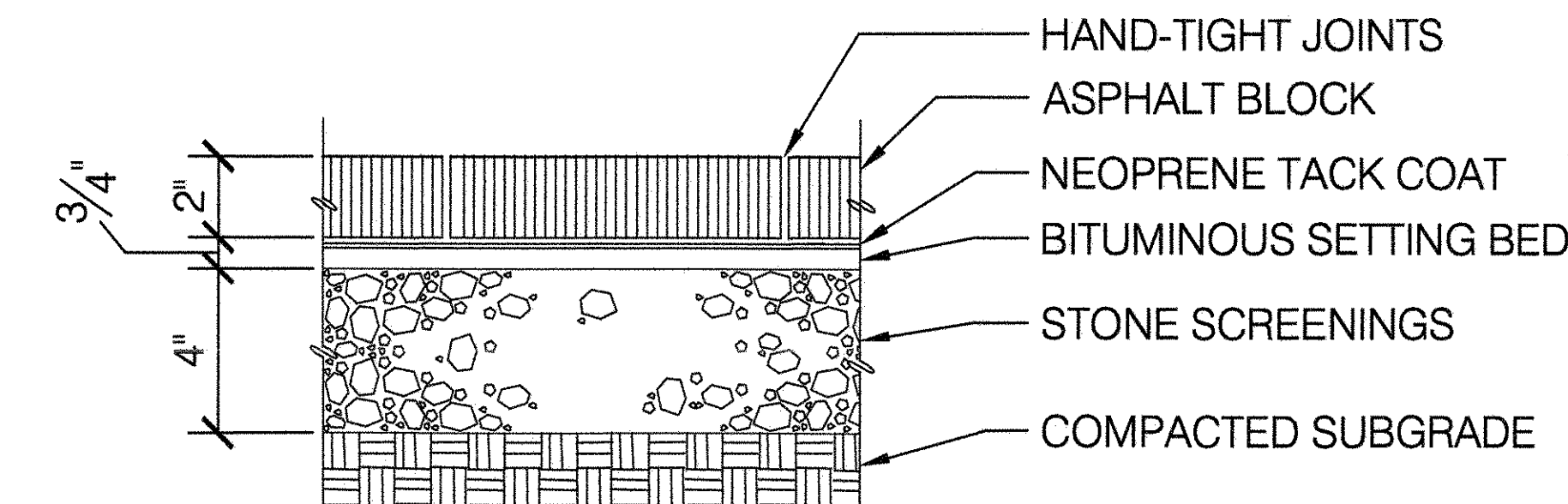
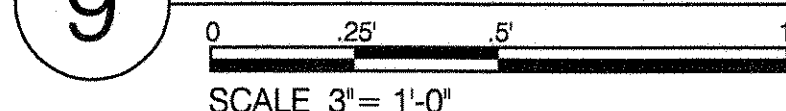
7 ASPHALT TOP COURSE ON EX. STONE SCREENINGS



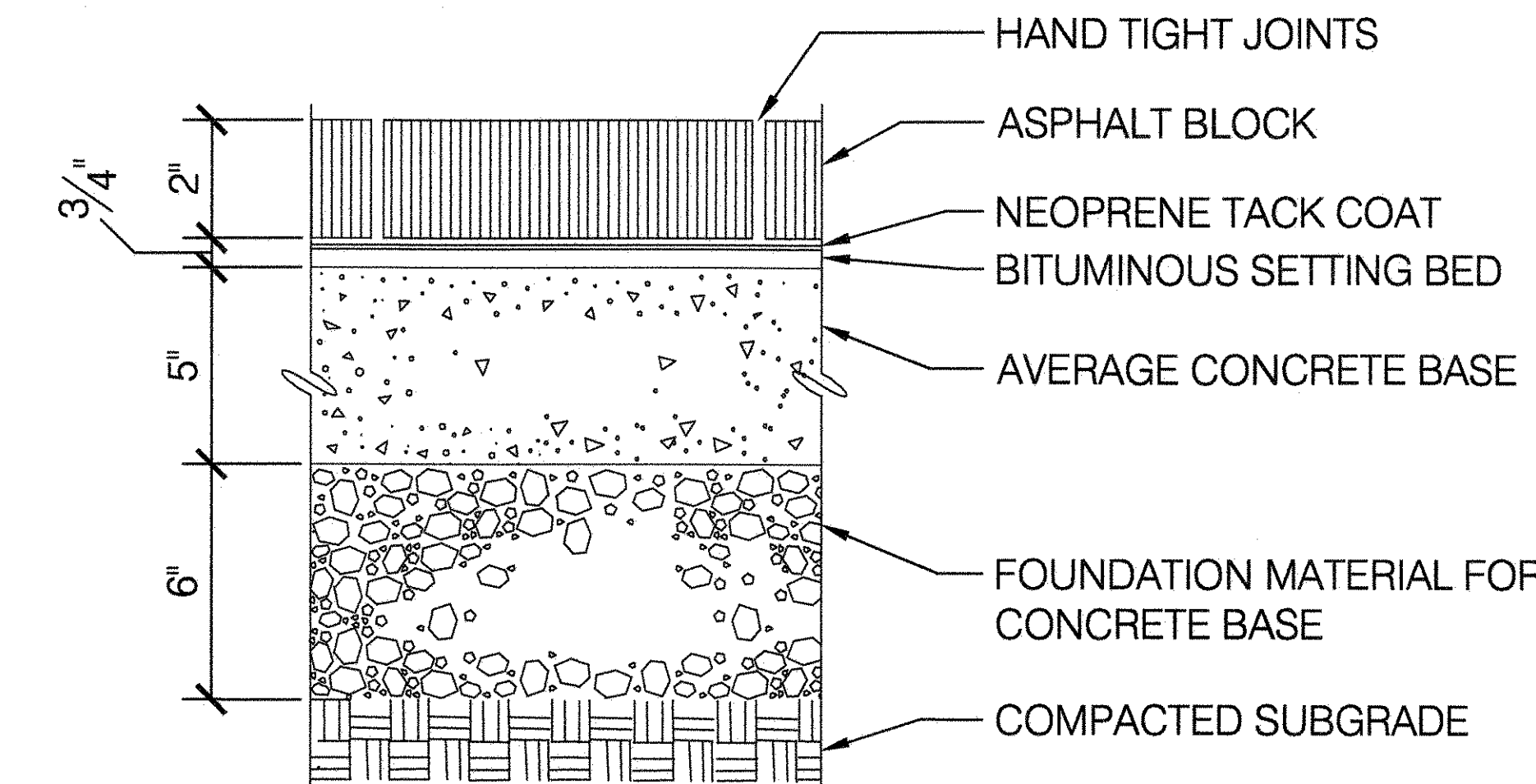
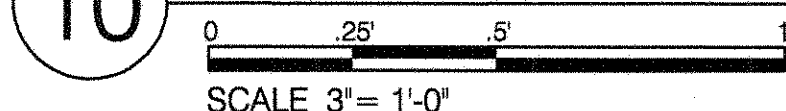
8 ASPHALT BLOCK ON ASPHALT CONCRETE BASE



9 ASPHALT BLOCK ON STONE SCREENINGS

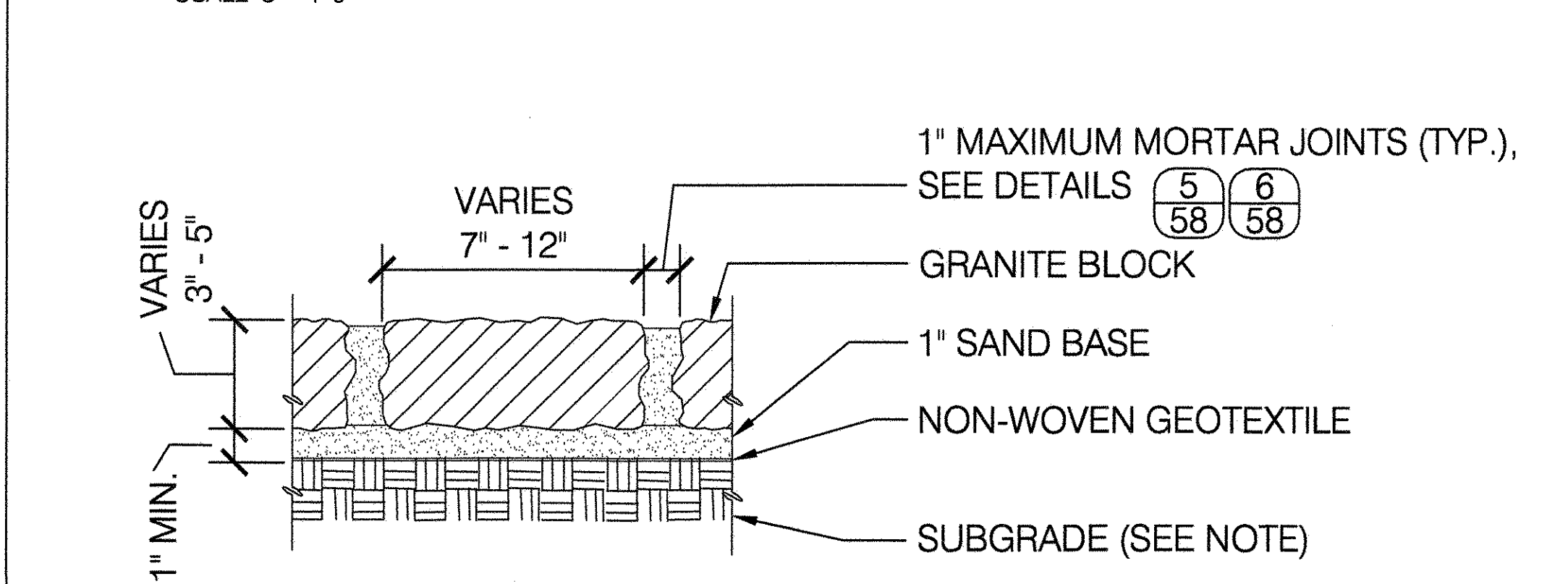
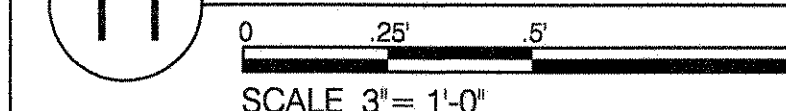


10 ASPHALT BLOCK ON CONCRETE BASE



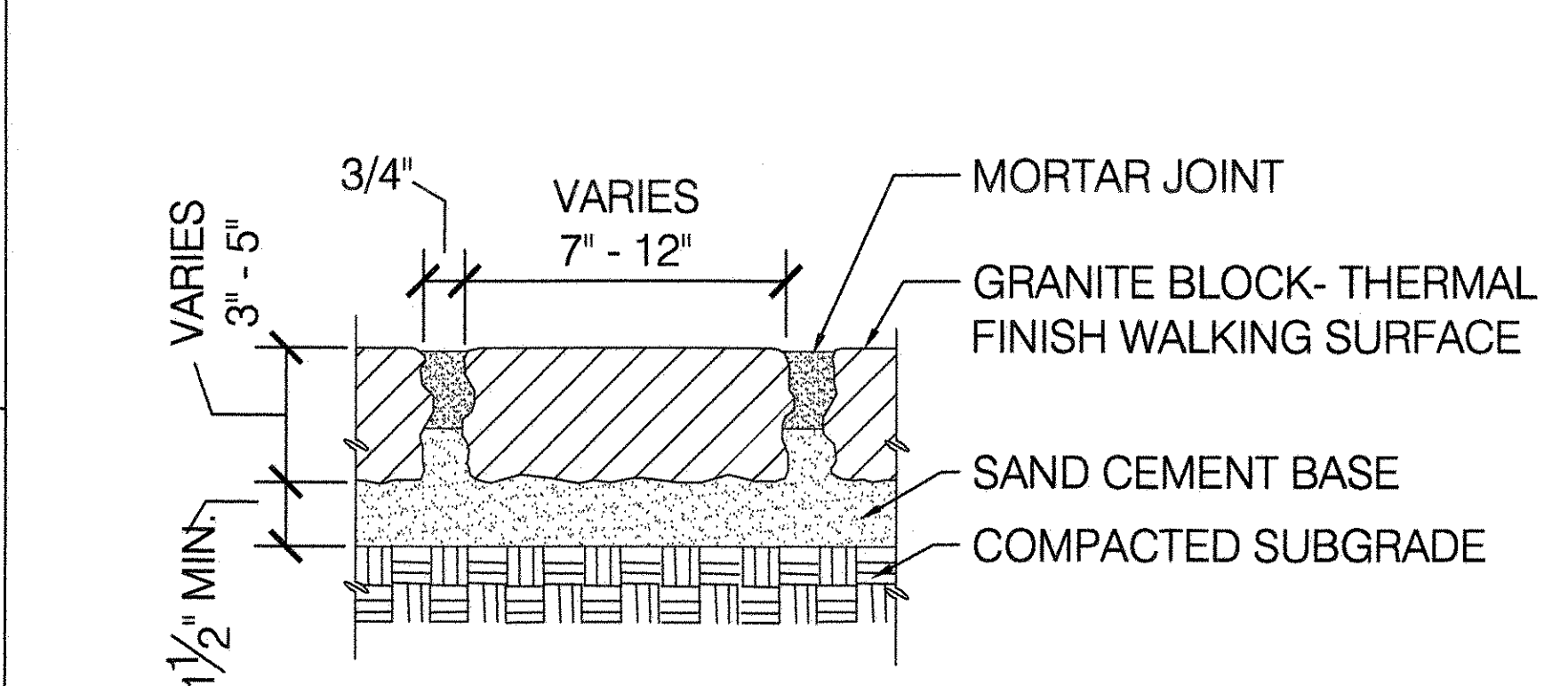
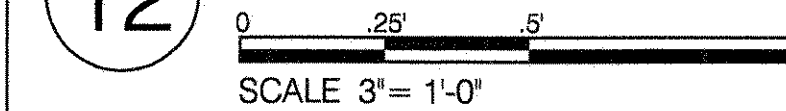
NOTE: 3" THICK ASPHALT BLOCK REQUIRED FOR ROADS.

11 GRANITE BLOCK ON SAND FOR TREE PITS

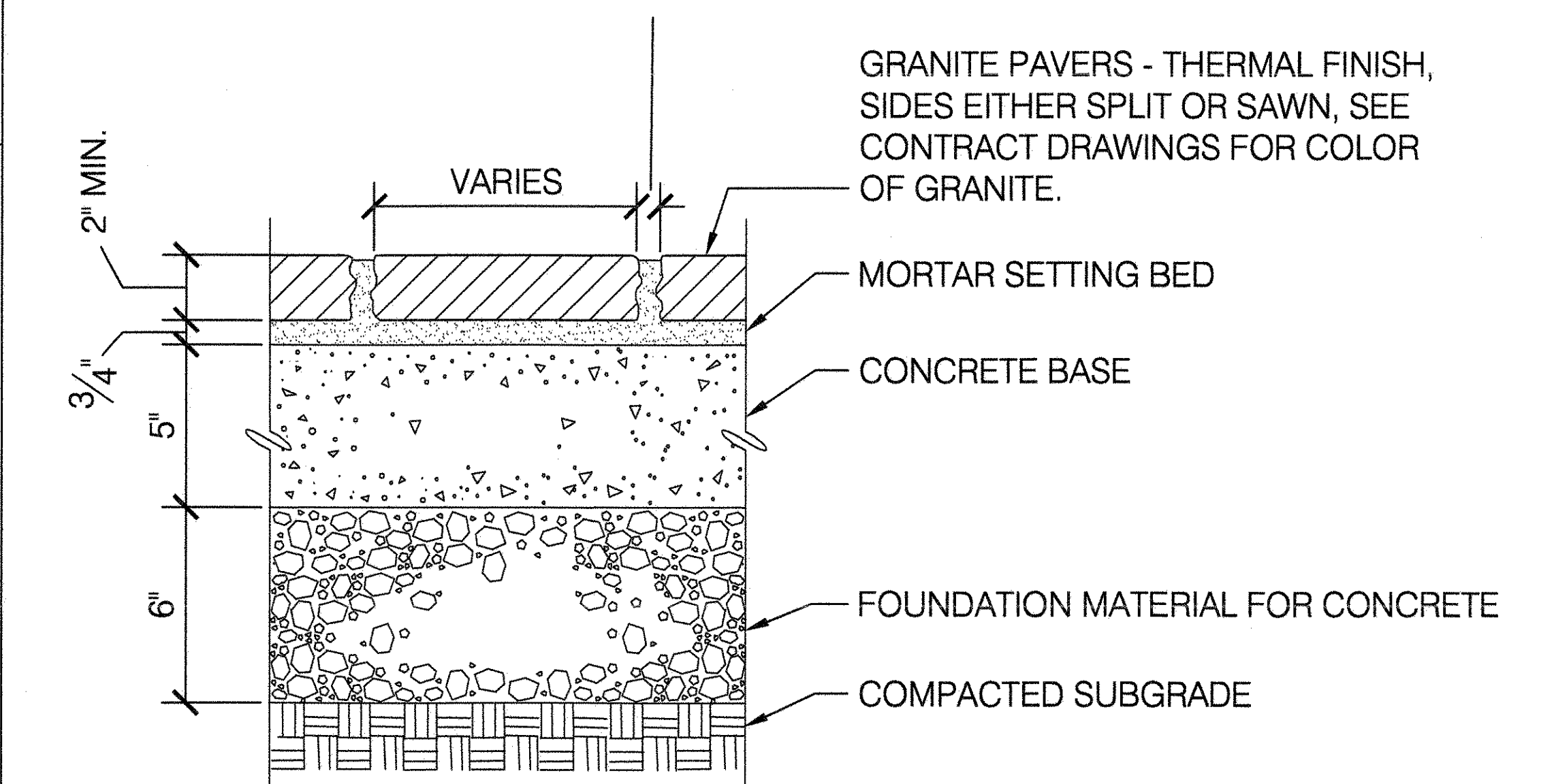
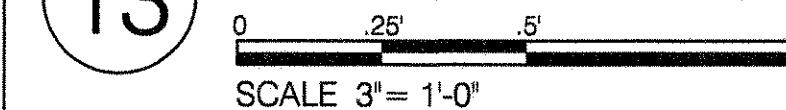


- NOTES:
- FOR TREE PITS SEE STD. DETAIL SHEET "PLANTING DETAILS".
 - AROUND NEW TREES SUBGRADE TO BE COMPACTED.
 - AROUND EXISTING TREES; MIN. EXCAVATION. MIN. COMPACTION.
 - SEE SECTION C, ARTICLE 14.

12 GRANITE BLOCK PAVEMENT ON SAND- ACCESSIBLE



13 GRANITE PAVERS ON CONCRETE



NOTE: GRANITE PAVERS SHALL BE 3" THICK MINIMUM FOR ROADS.



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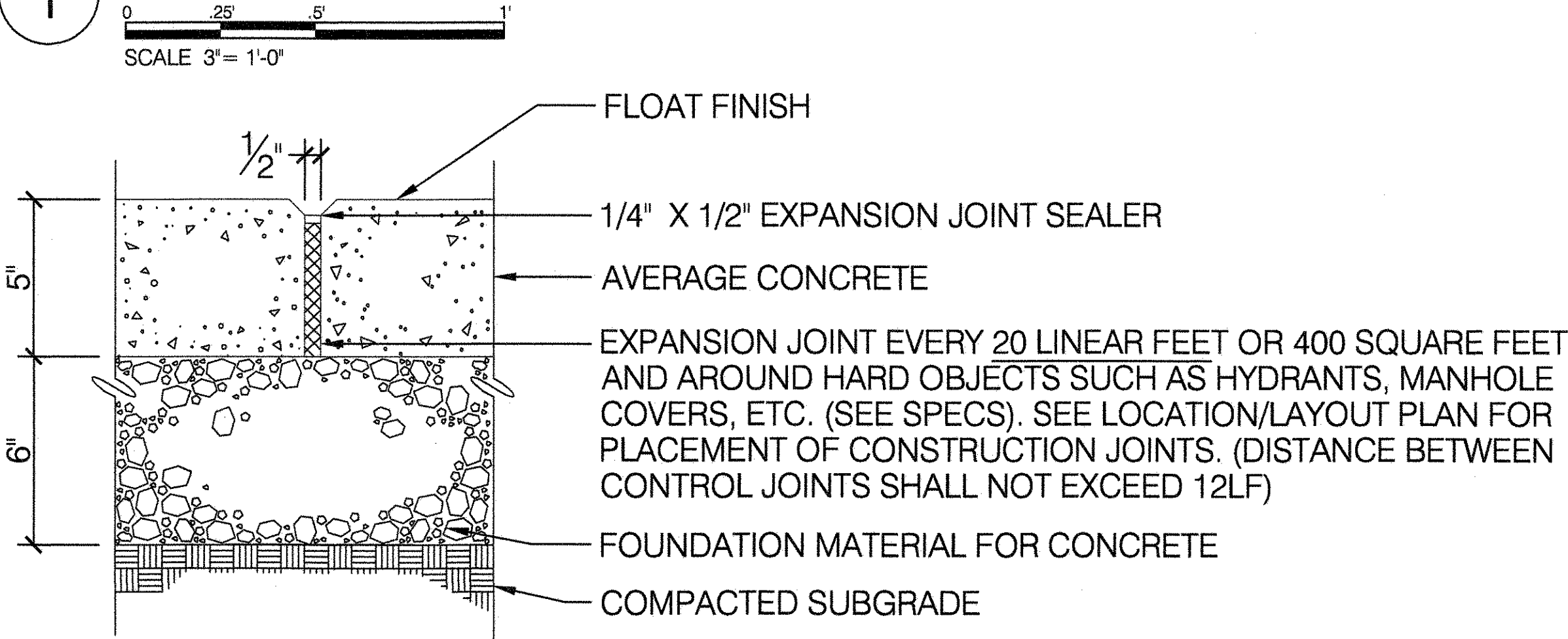
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DRAWING TITLE
PAVEMENT DETAILS - NO.1

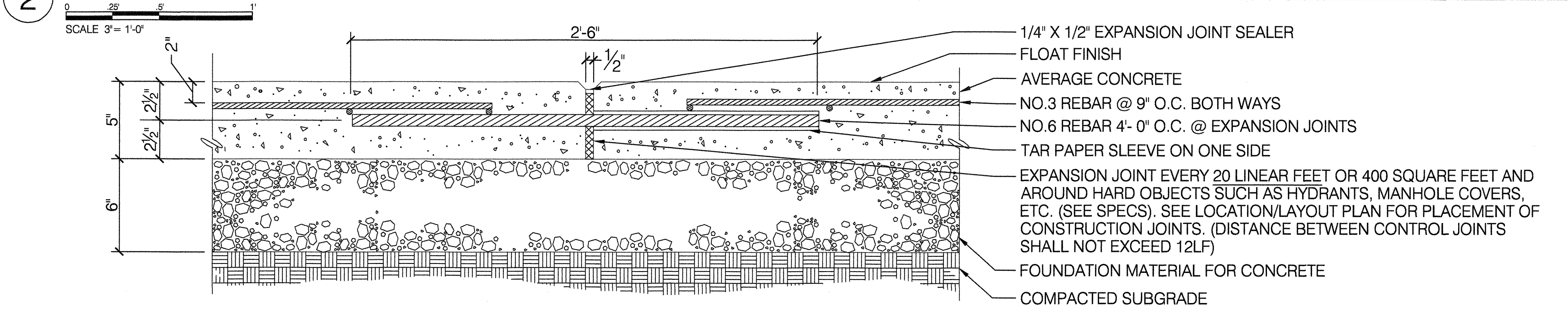


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DATE 09-01-2020	SHEET NO. 15
	SCALE AS SHOWN

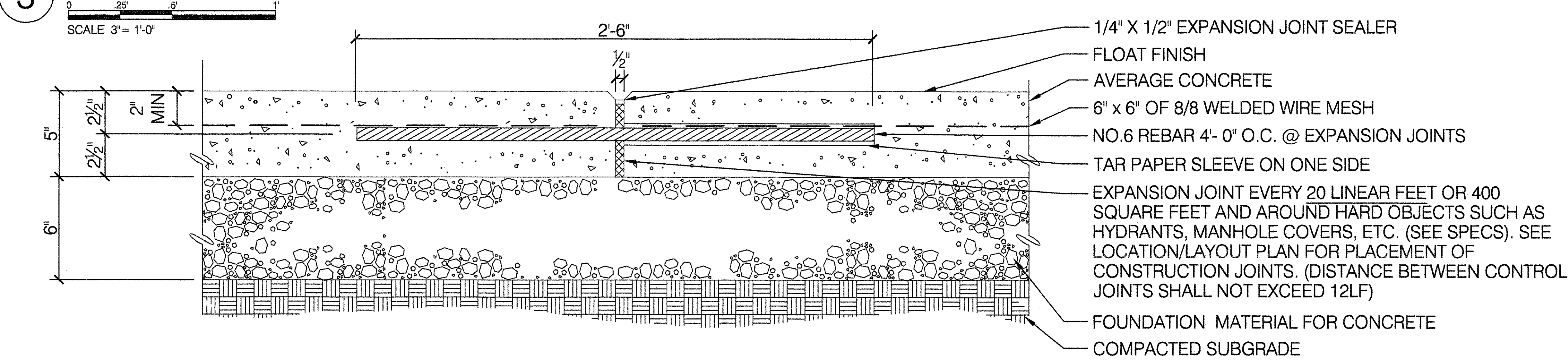
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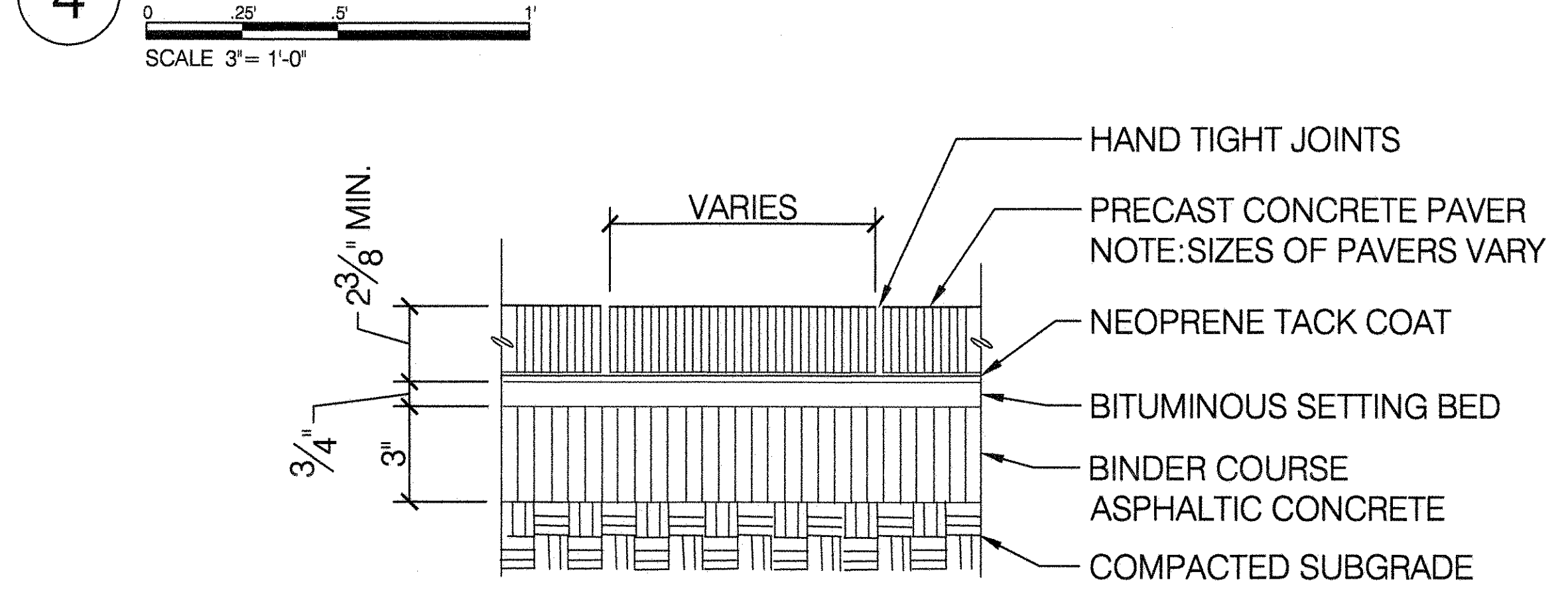
2 REINFORCED CONCRETE PAVEMENT WITH STEEL BAR REINFORCEMENT



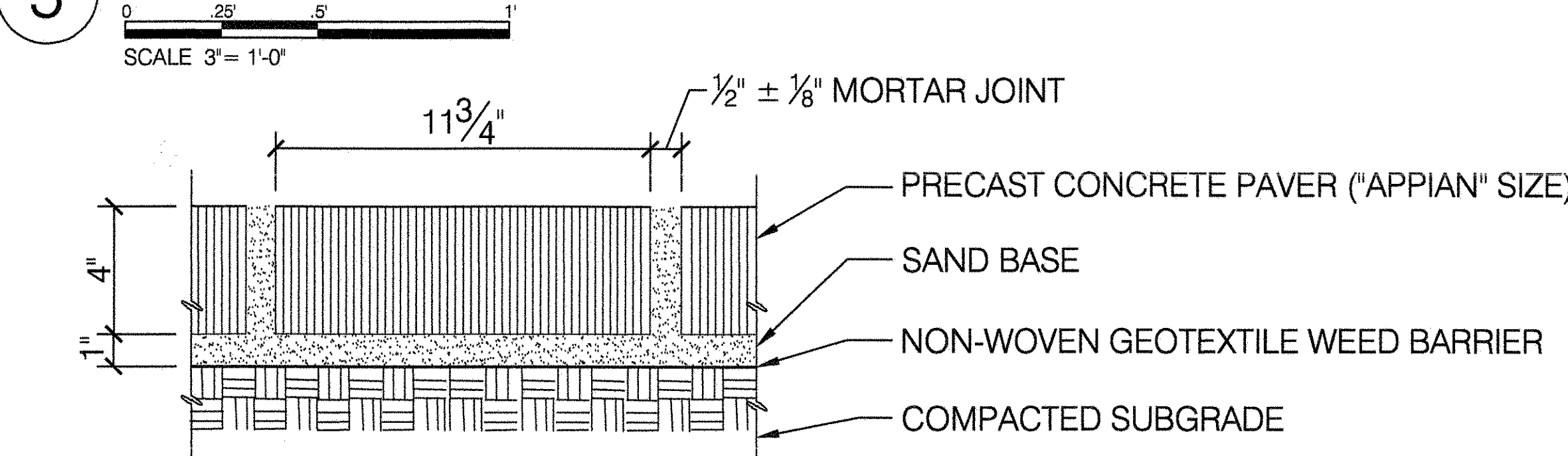
3 REINFORCED CONCRETE PAVEMENT WITH STEEL FABRIC REINFORCEMENT



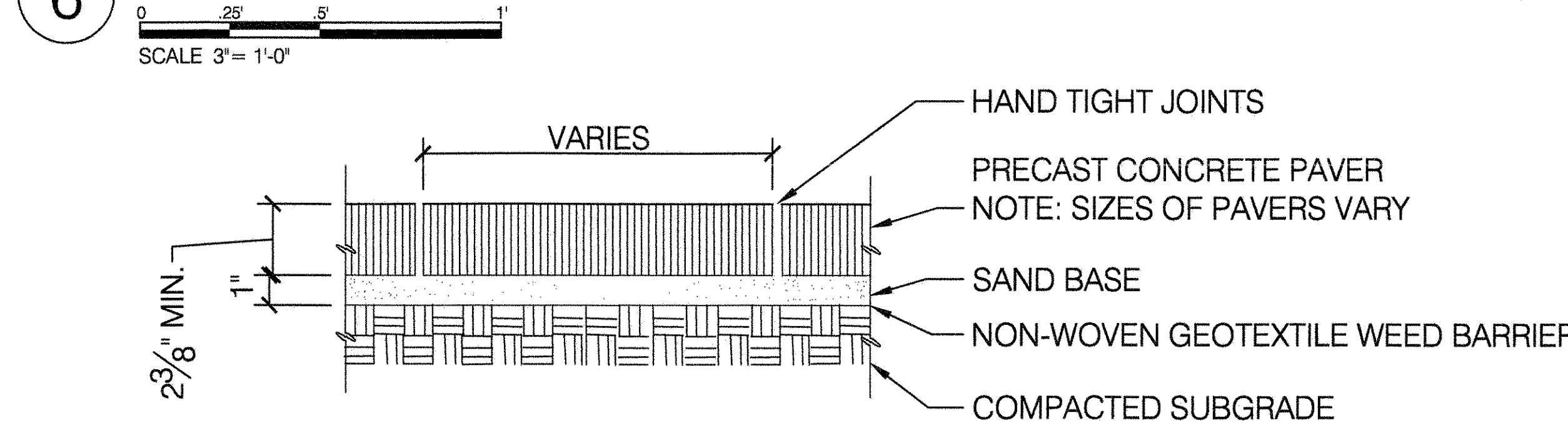
4 CONCRETE PAVERS ON ASPHALT BASE



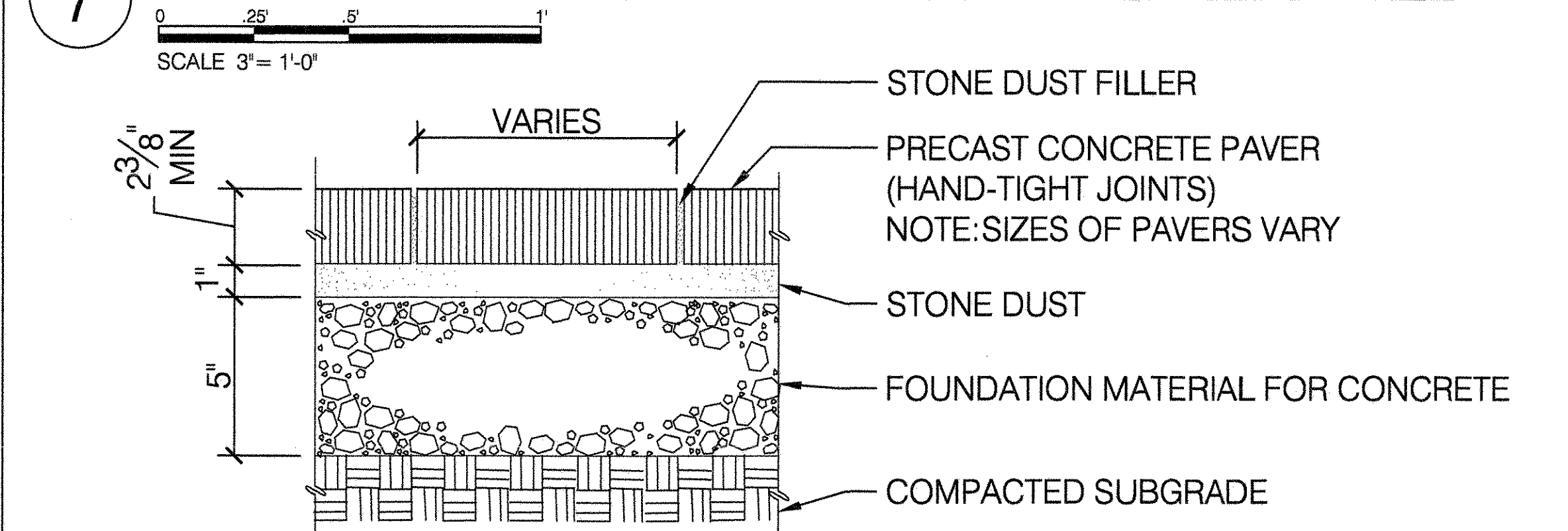
5 CONCRETE PAVERS FOR TREE PITS



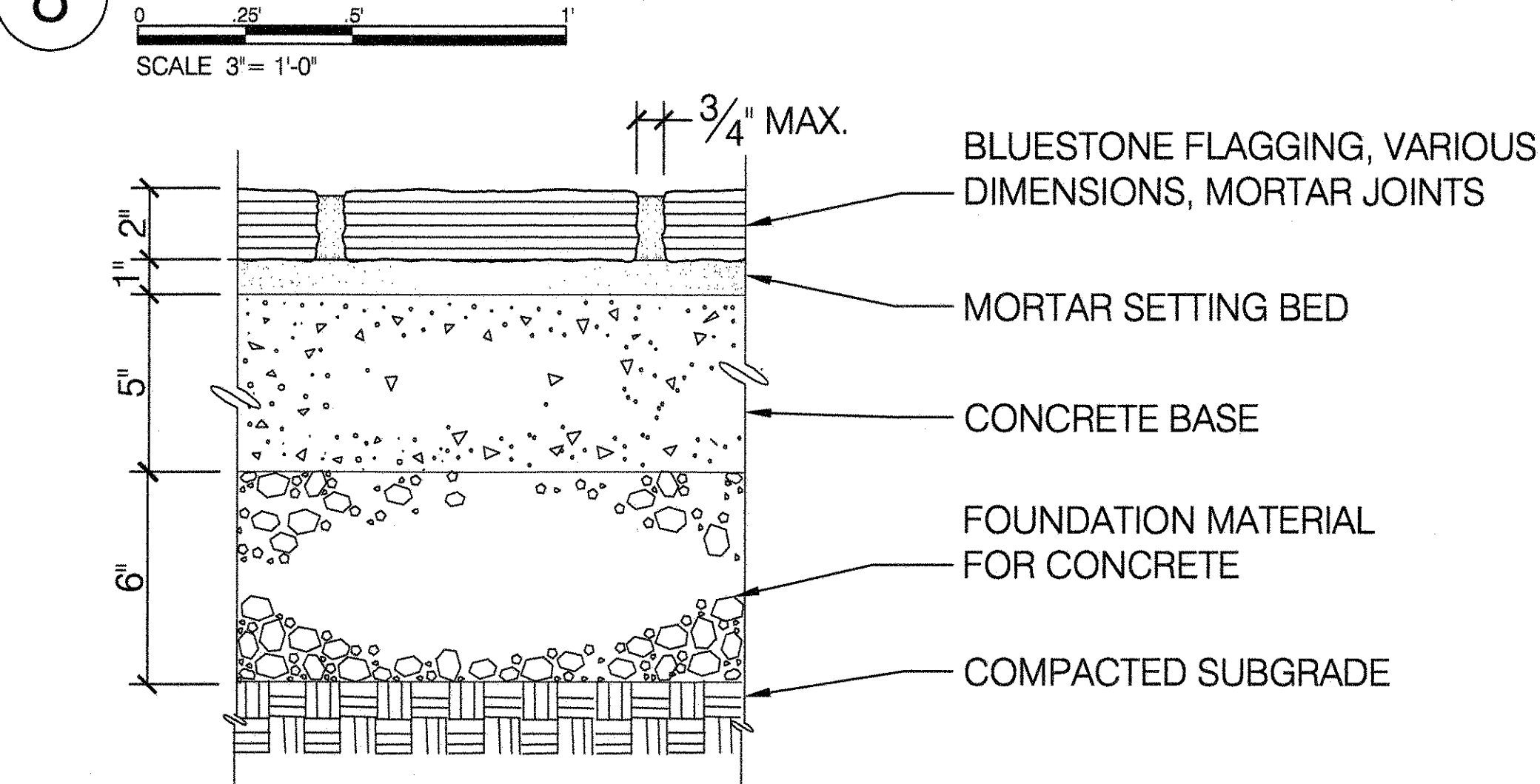
6 CONCRETE PAVERS ON SAND BASE



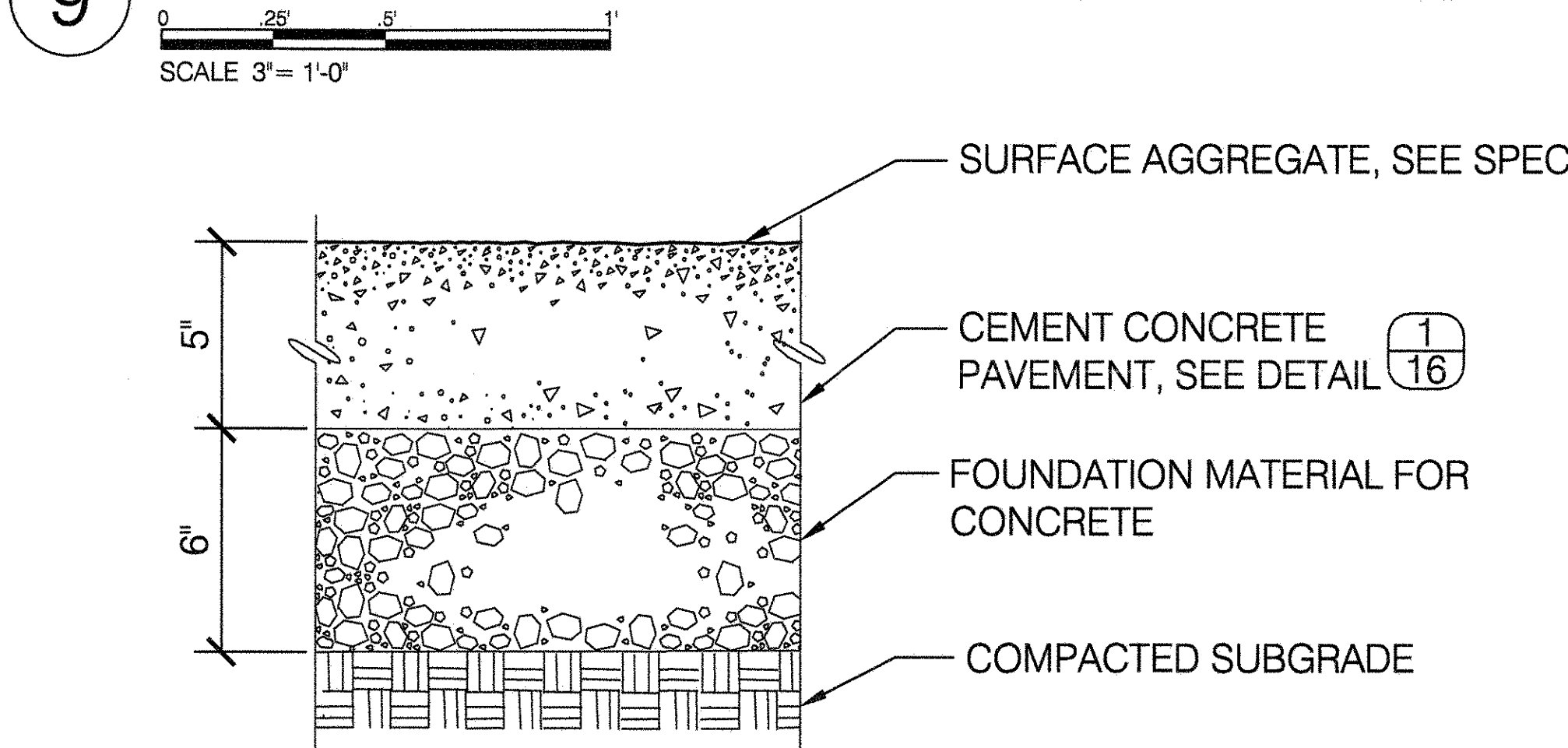
7 CONCRETE PAVERS ON STONE DUST BASE



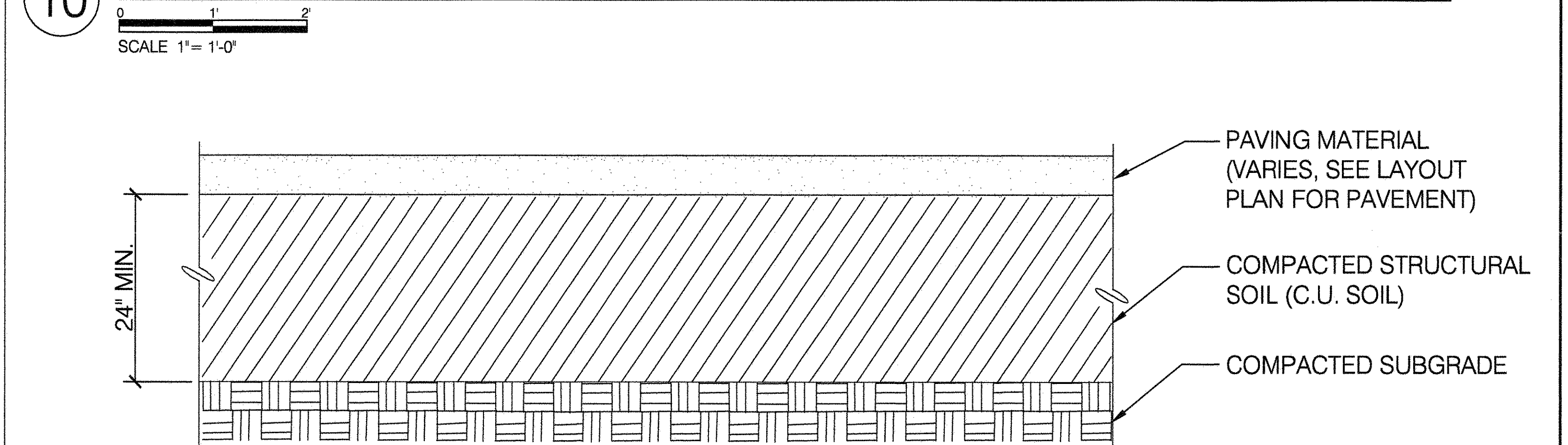
8 BLUESTONE PAVEMENT ON CONCRETE



9 EXPOSED AGGREGATE ON CONCRETE BASE



10 STRUCTURAL SOIL FOUNDATION MATERIAL



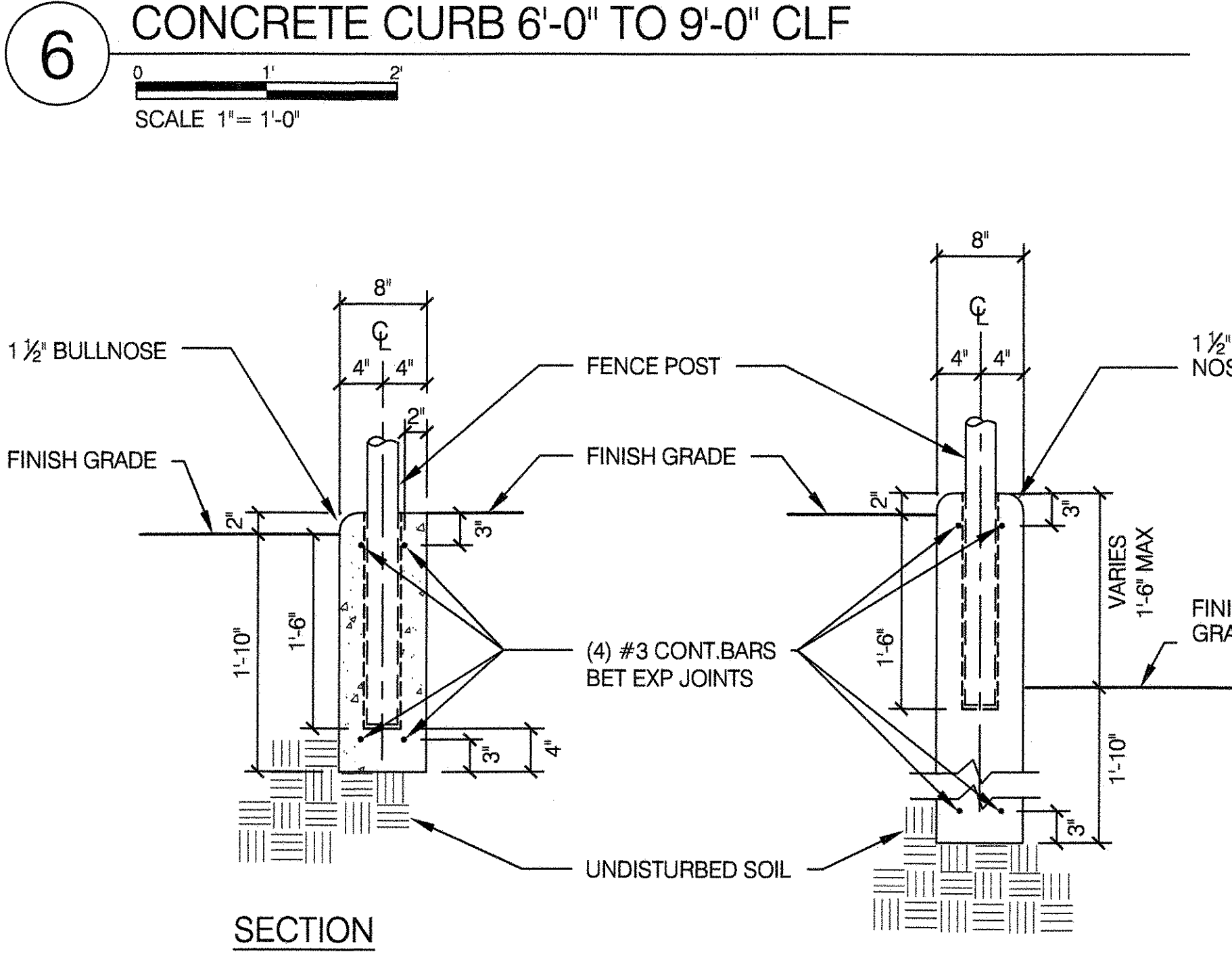
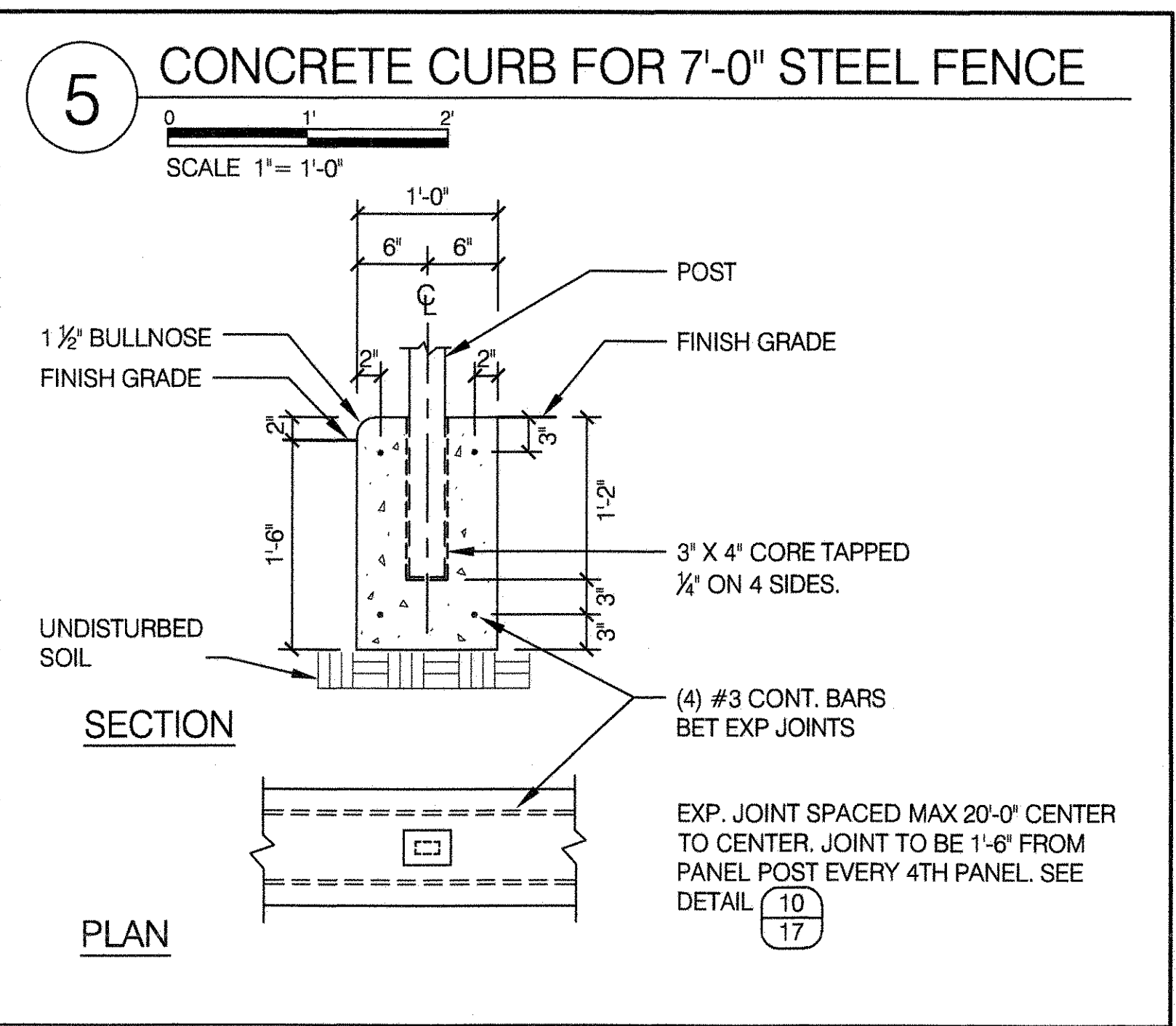
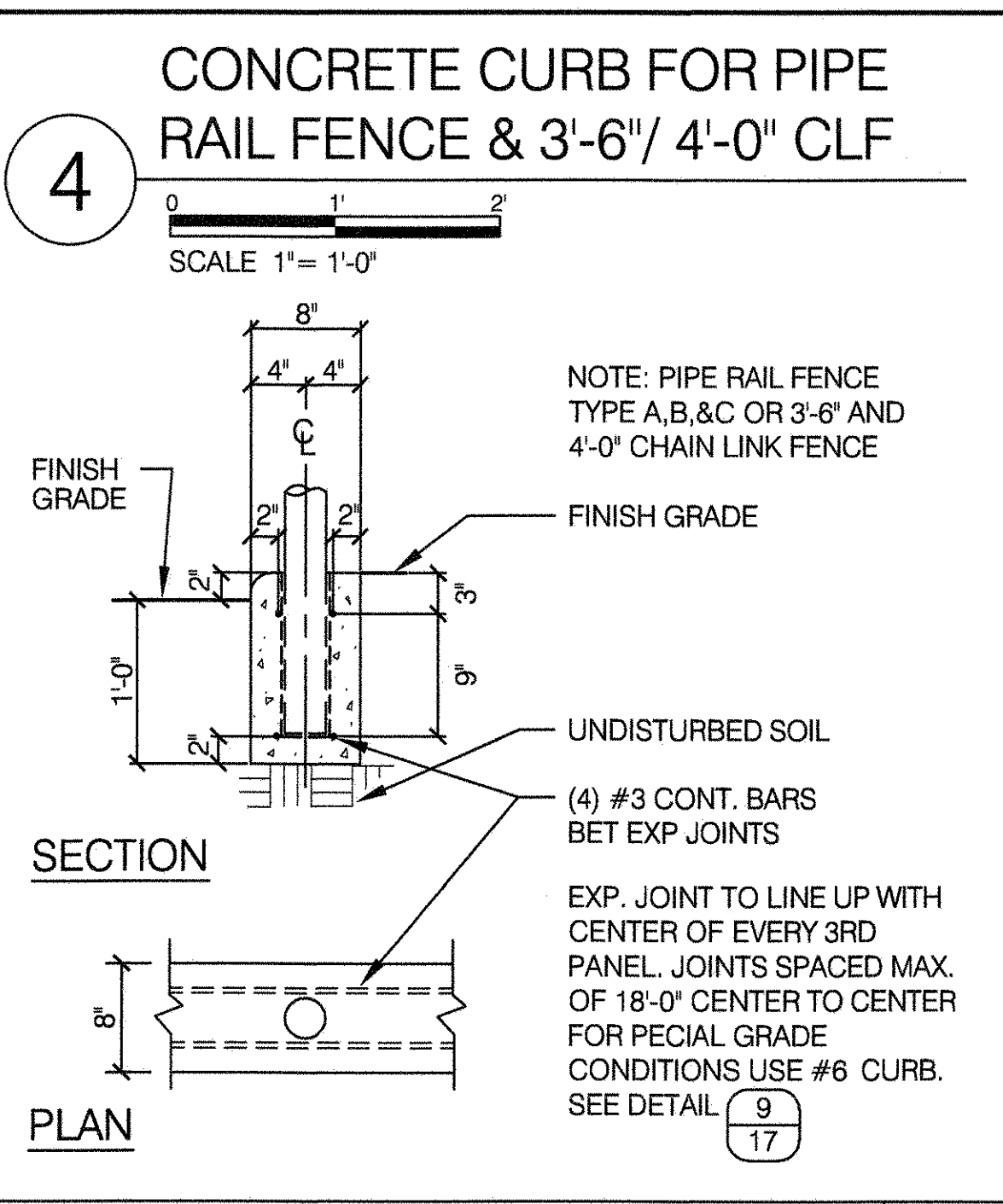
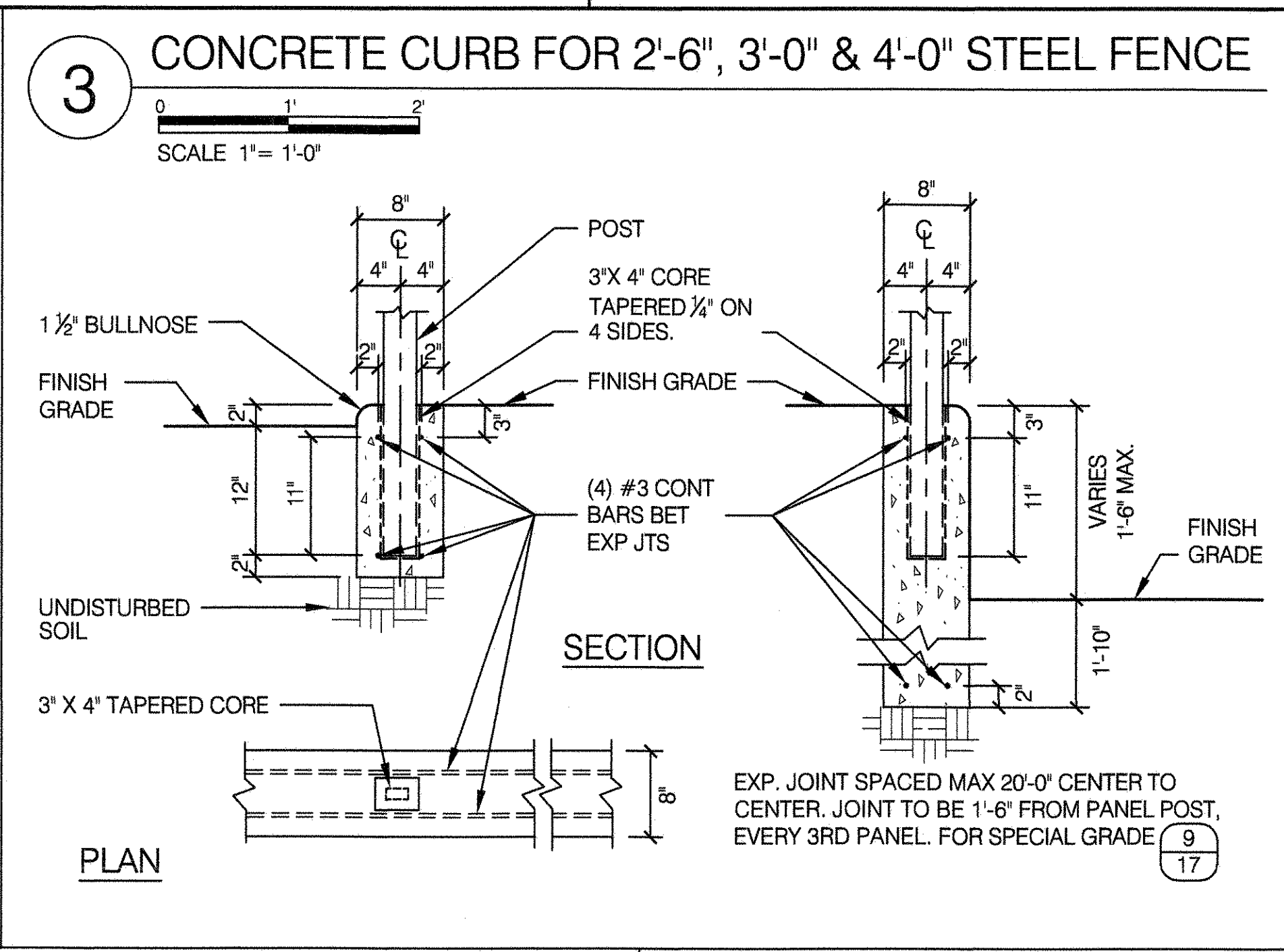
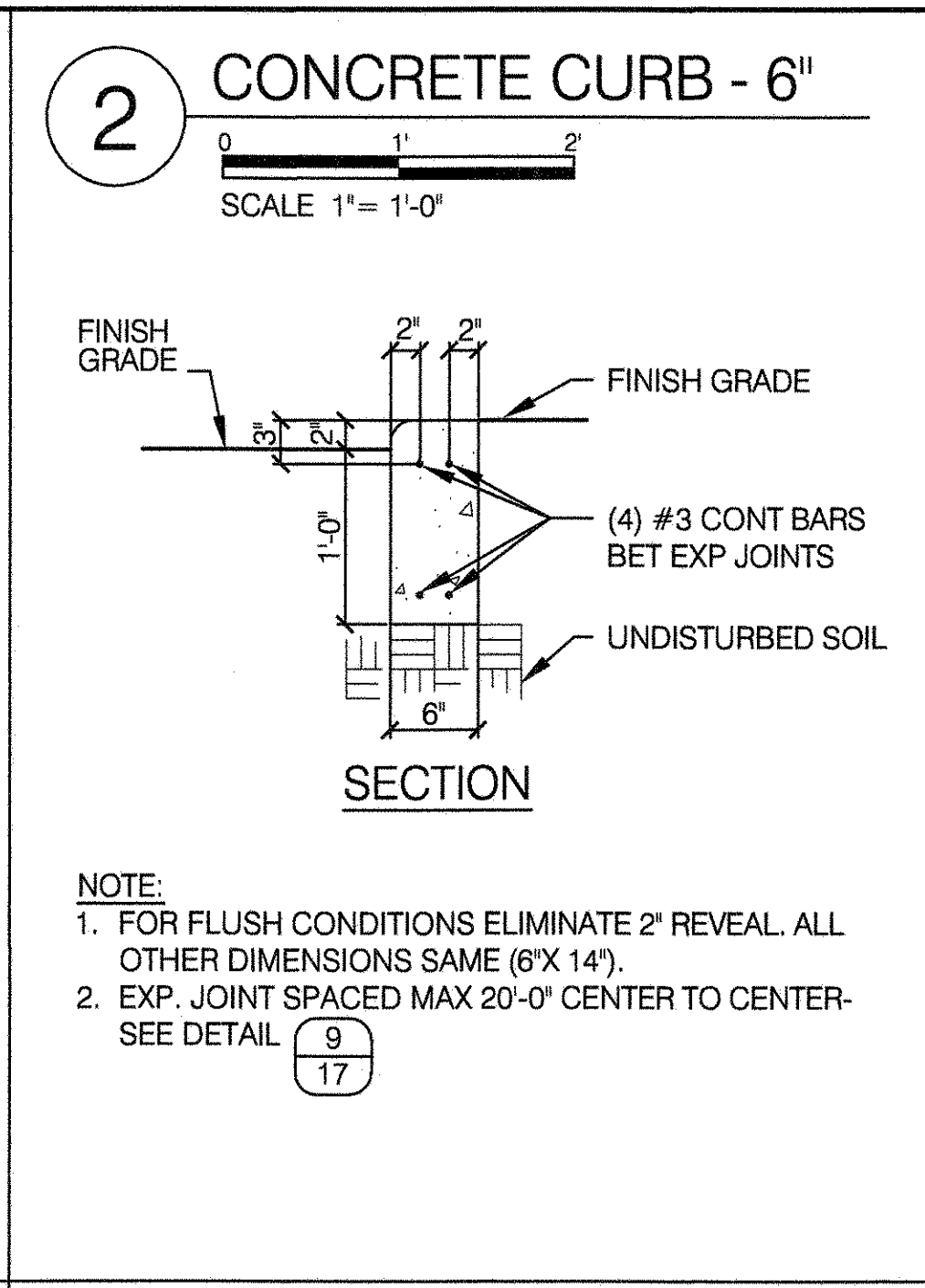
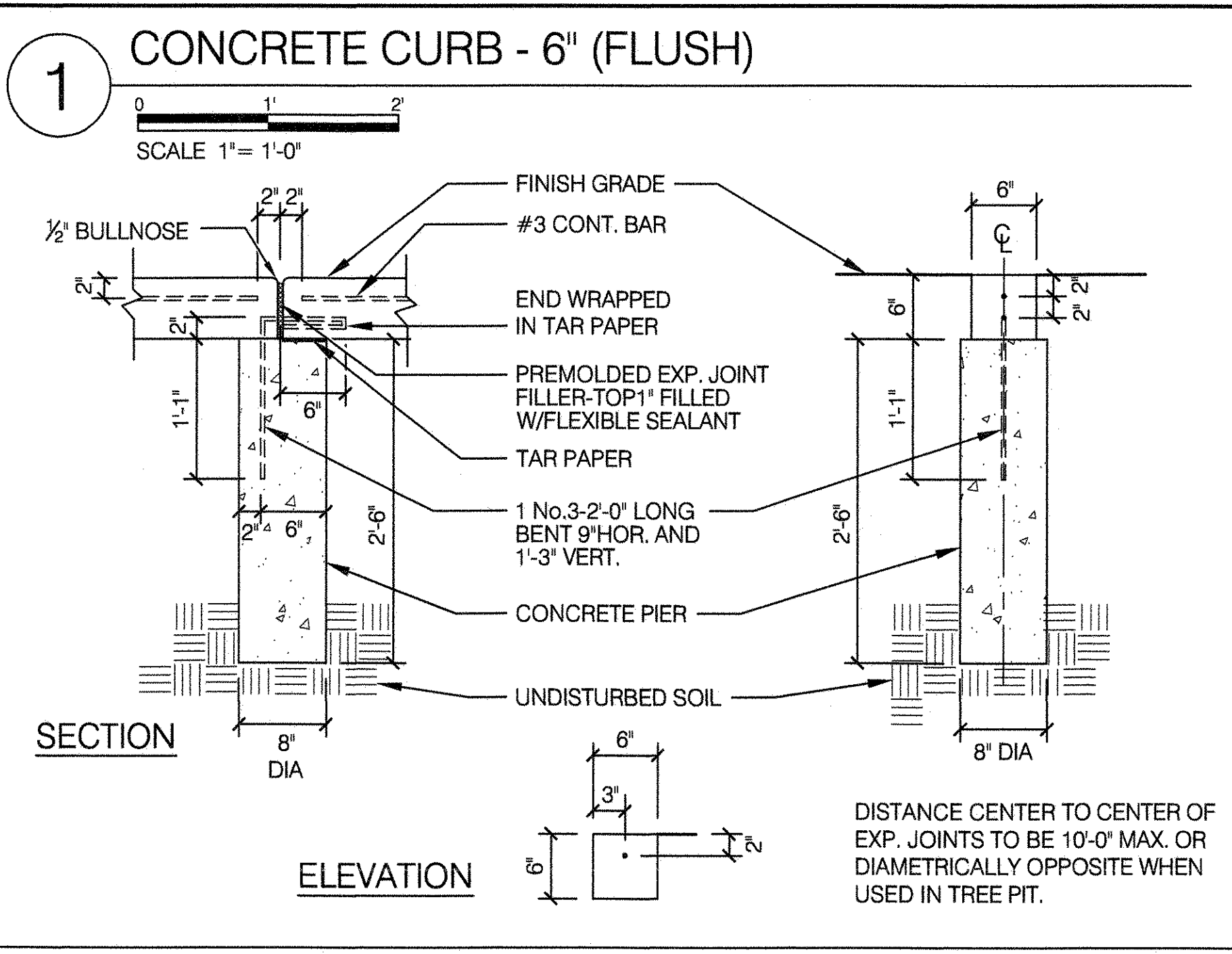
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FLUSHING, NEW YORK 11368

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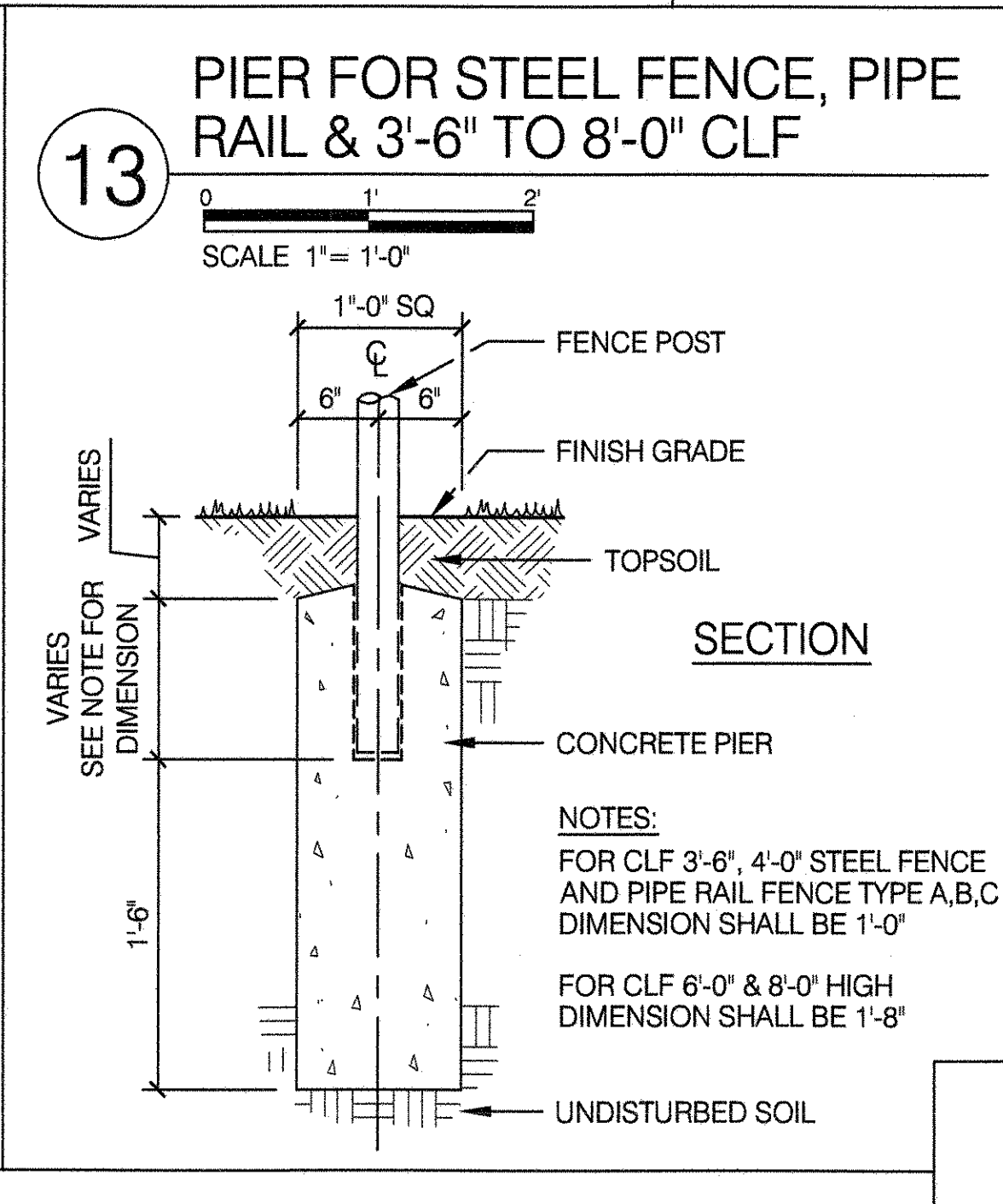
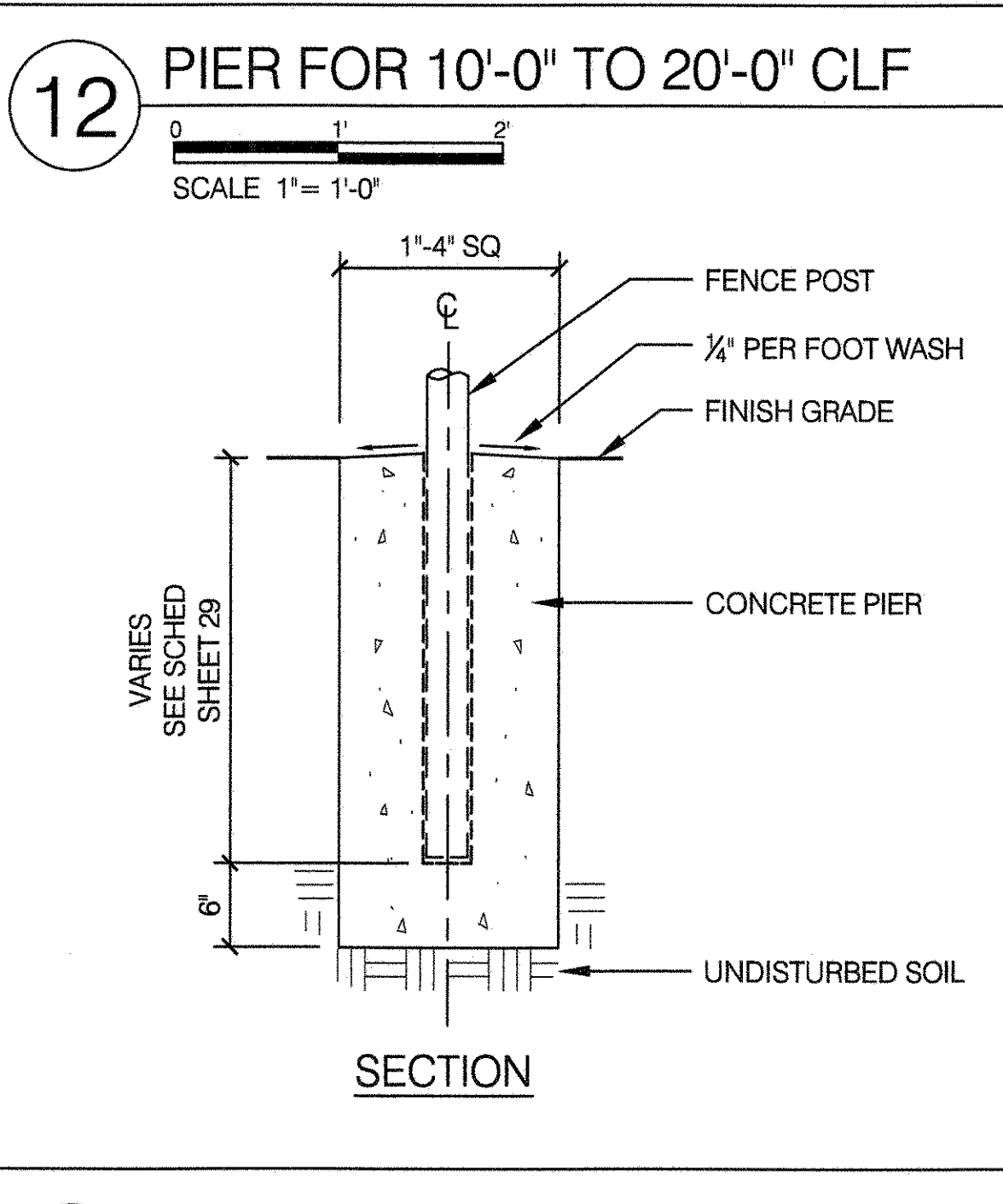
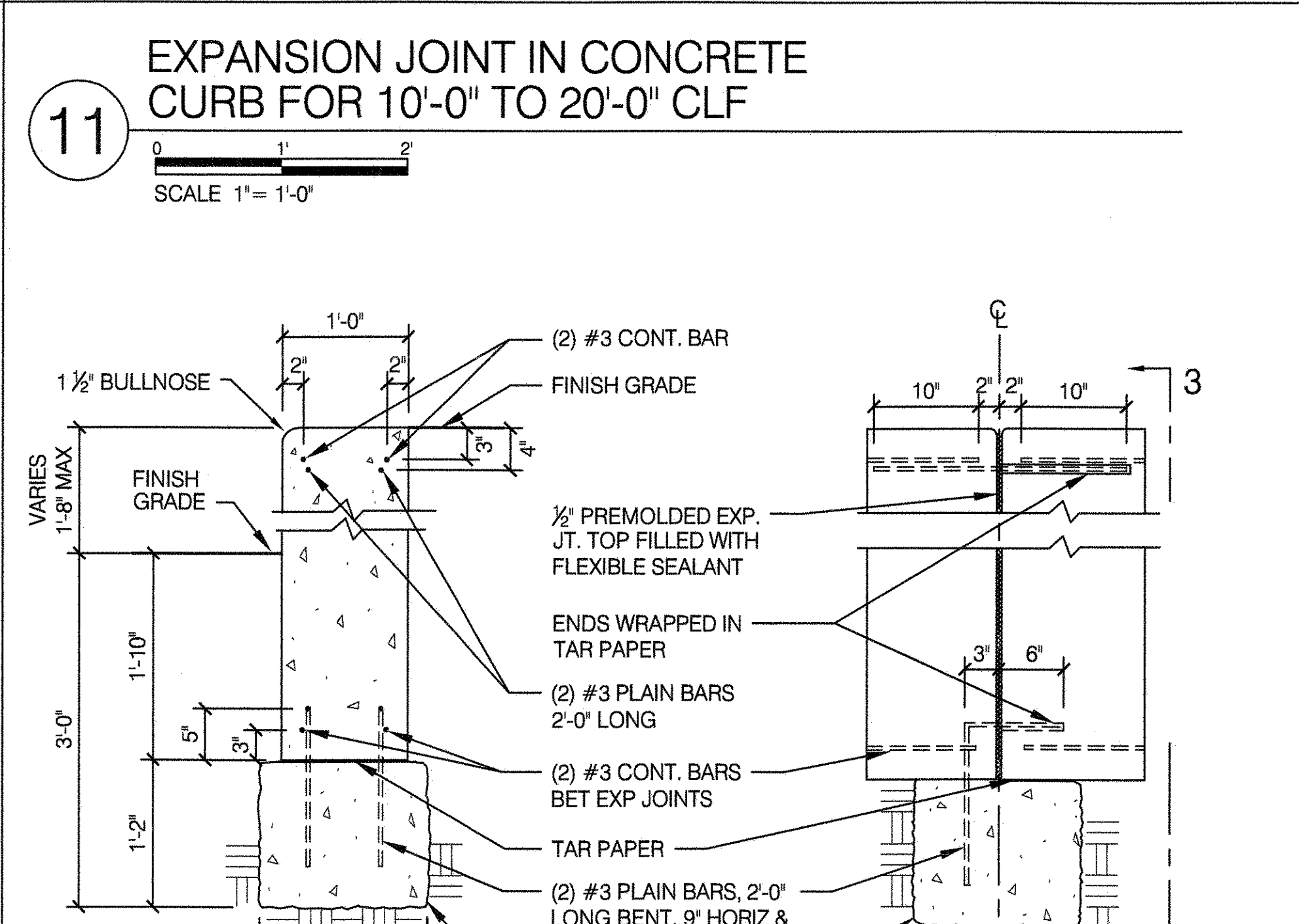
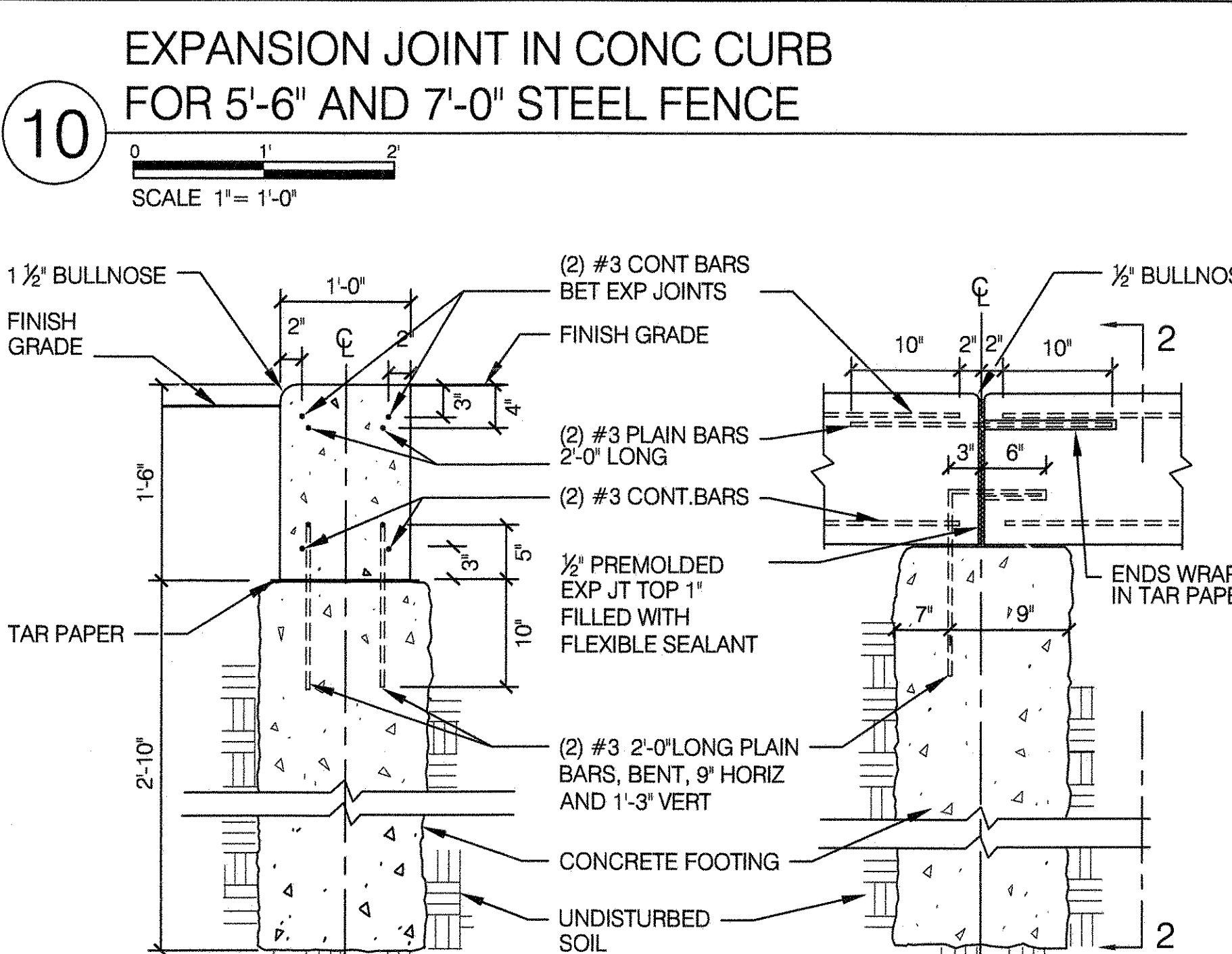
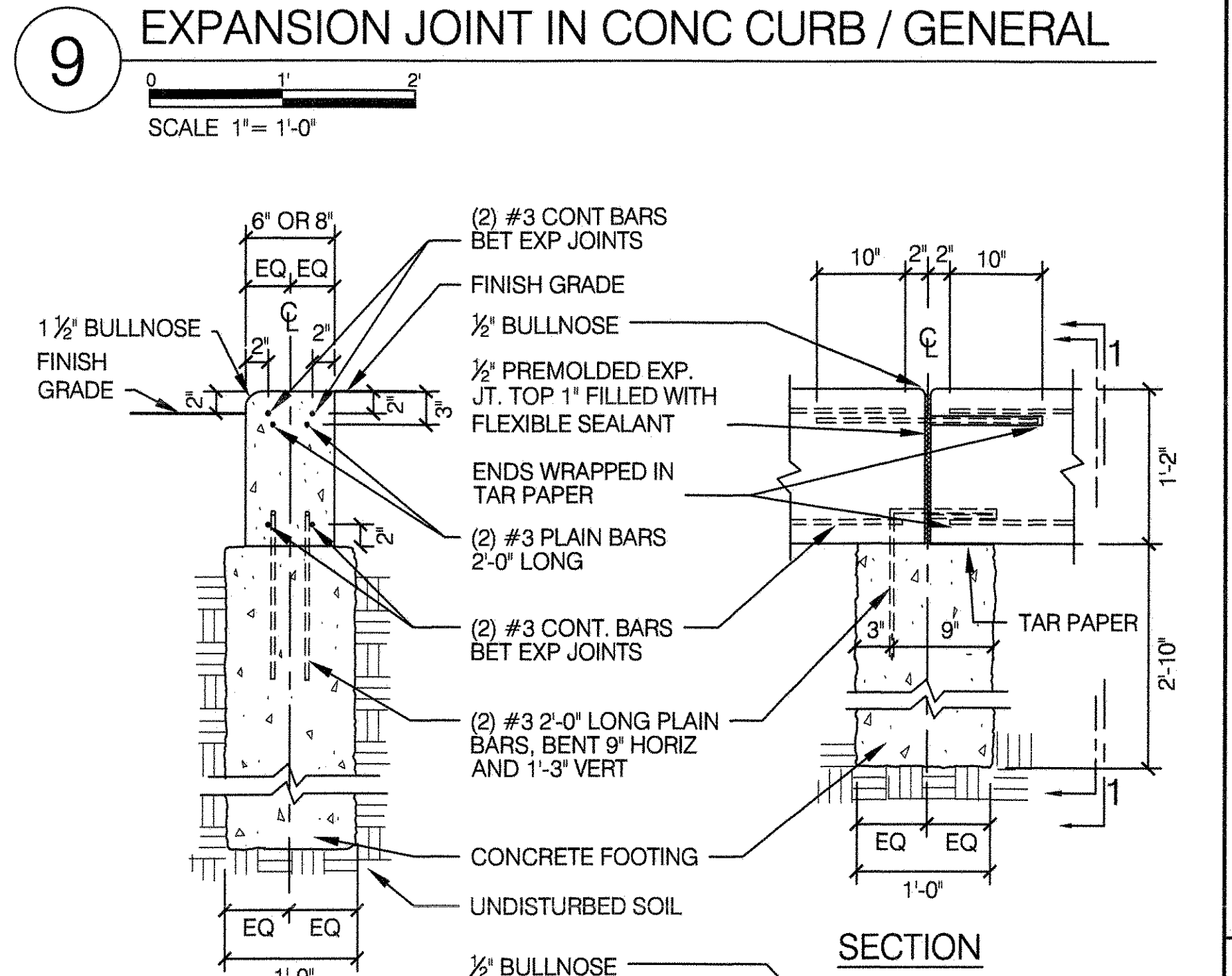
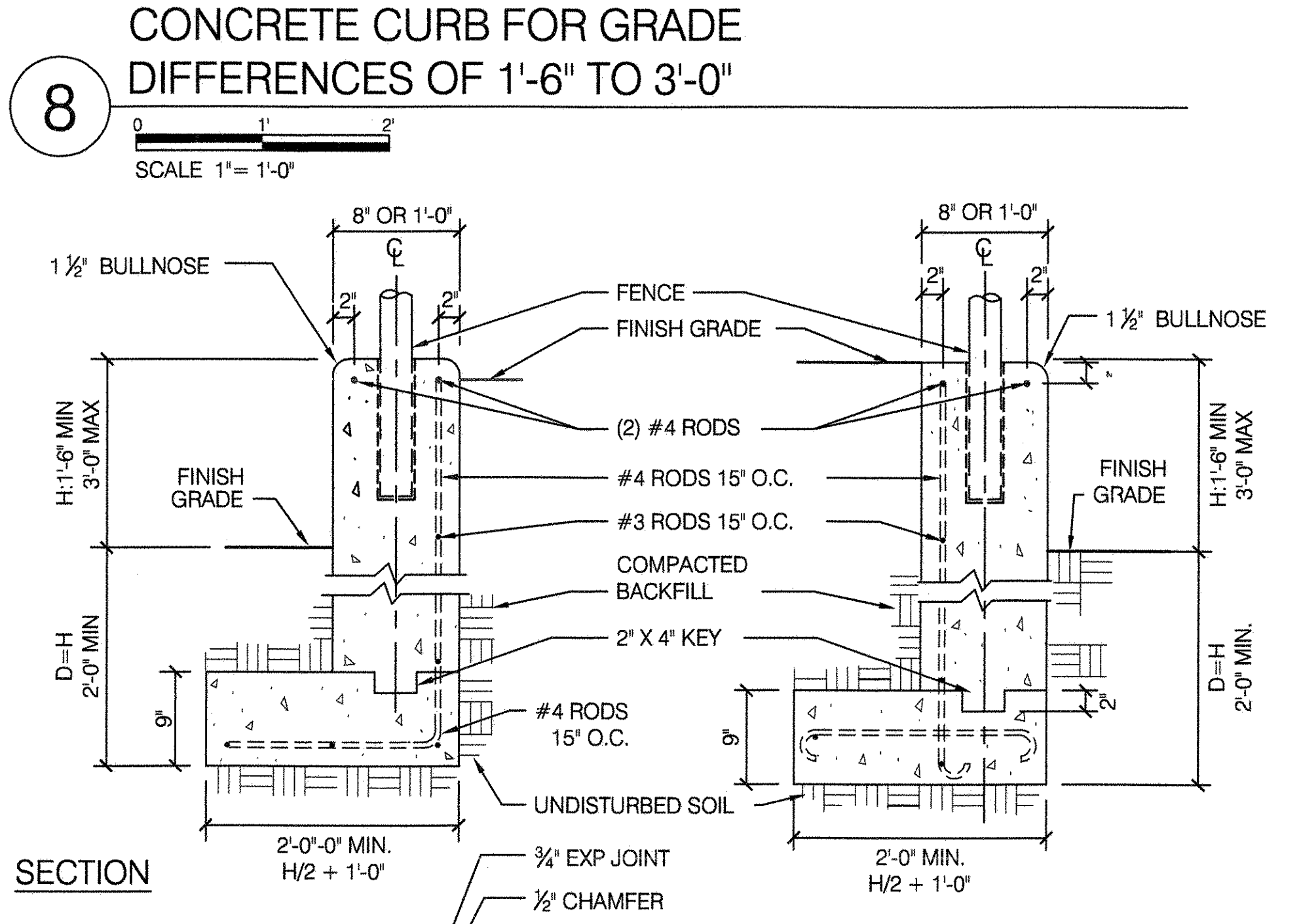
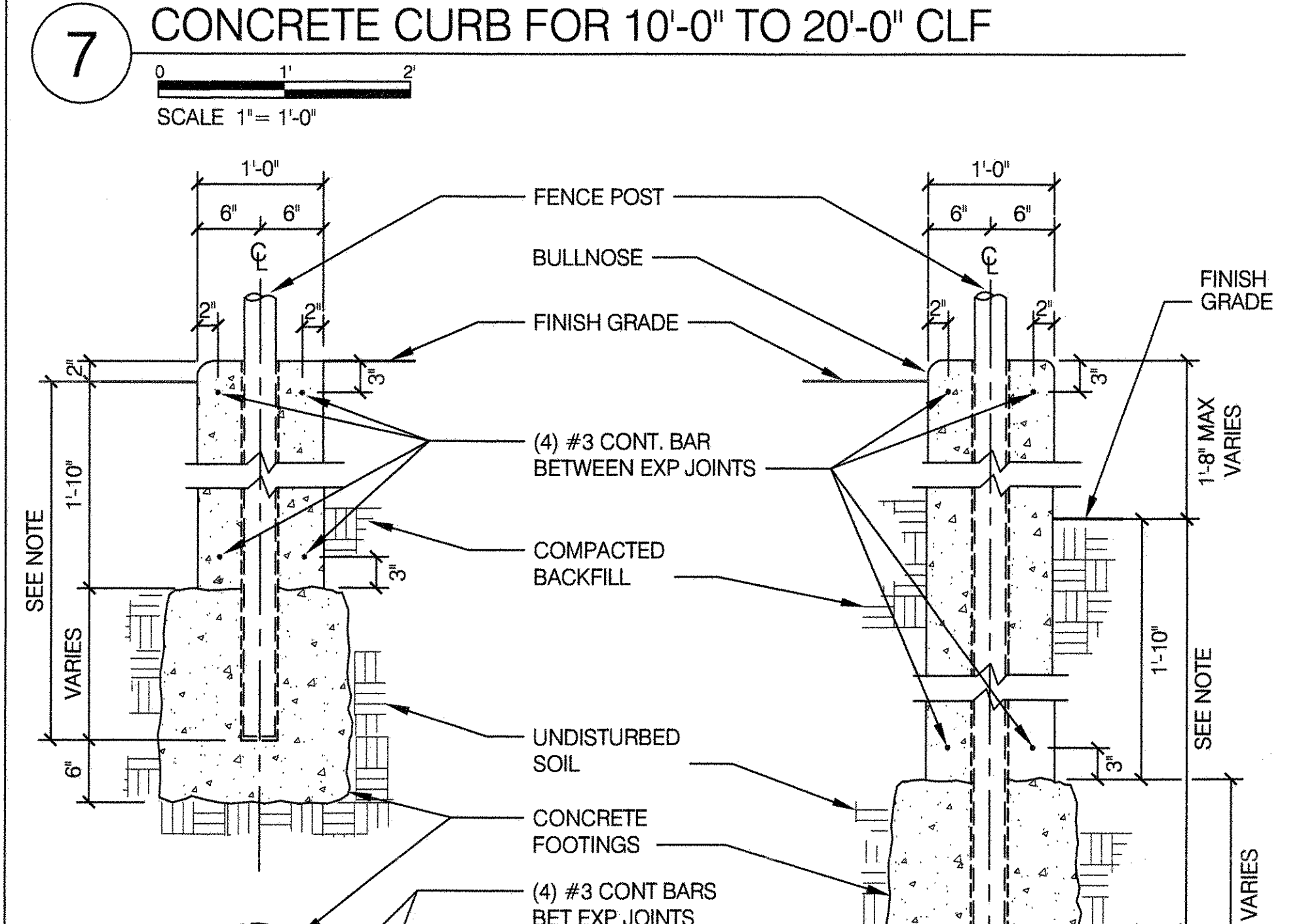
DRAWING TITLE
PAVEMENT DETAILS - NO. 2



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APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 16
DATE 09-01-2020	SCALE AS SHOWN



NOTE: EXP. JOINT SPACED 16'-0" MAX TO LINE UP W/ CENTER OF EVERY OTHER PANEL FOR 6'-0" TO 9'-0" CLF AND SPACED 18'-0" CENTER TO CENTER MAX TO LINE UP WITH CENTER OF EVERY THIRD PANEL FOR 6'-0" CLF- SEE DETAIL (9)



14 GENERAL NOTES

WHERE CONCRETE CURB MEETS AN ADJACENT CURB OF DIFFERENT WIDTH, TYPICAL CURB TRANSITIONS, DETAIL (15) WILL APPLY.

DEPTHS OF FOOTINGS MAY VARY AND SHALL BE DETERMINED BY THE RESIDENT ENGINEER.

FOOTINGS FOR CURBS AND FOOTINGS FOR FENCE POSTS IN CURBS WILL BE PAID FOR UNDER ITEM "CONCRETE CURB". PIERS FOR FENCE WILL BE PAID FOR UNDER ITEM "AVERAGE CONCRETE" 3200 PSI.

WHEREVER THE GRADE ADJACENT TO CURB IS FLUSH WITH TOP OF CURB, BULLNOSE IS TO BE OMITTED ON THAT SIDE AND EDGE FINISHED WITH A REGULAR CORNER TOOL.

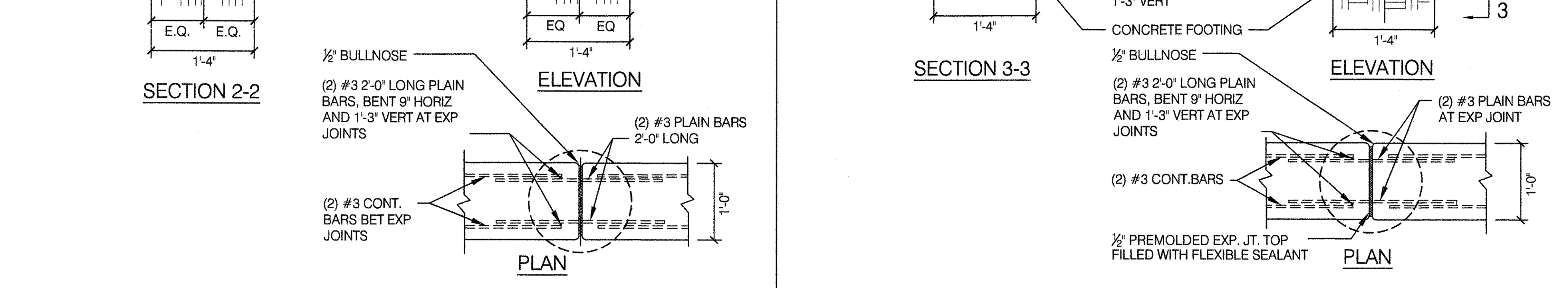
ALL FENCE POSTS ARE TO BE SET IN GROUT. FOR SPACING OF FENCE POSTS, SEE CHAIN LINK FENCE DETAILS.

FOR SPACING OF EXPANSION JOINTS SEE EACH CURB DETAIL.

USE ROUGH FLOAT FINISH ON ALL EXPOSED CURBS AND WALLS ALONG PROPERTY LINE FACING THE STREET.

ALL REBARS SHALL BE DEFORMED, EXCEPT AS NOTED.

REBARS SHALL BE SUPPORTED WITH CONCRETE BRICKS AT BOTTOM OF FORM WORK.



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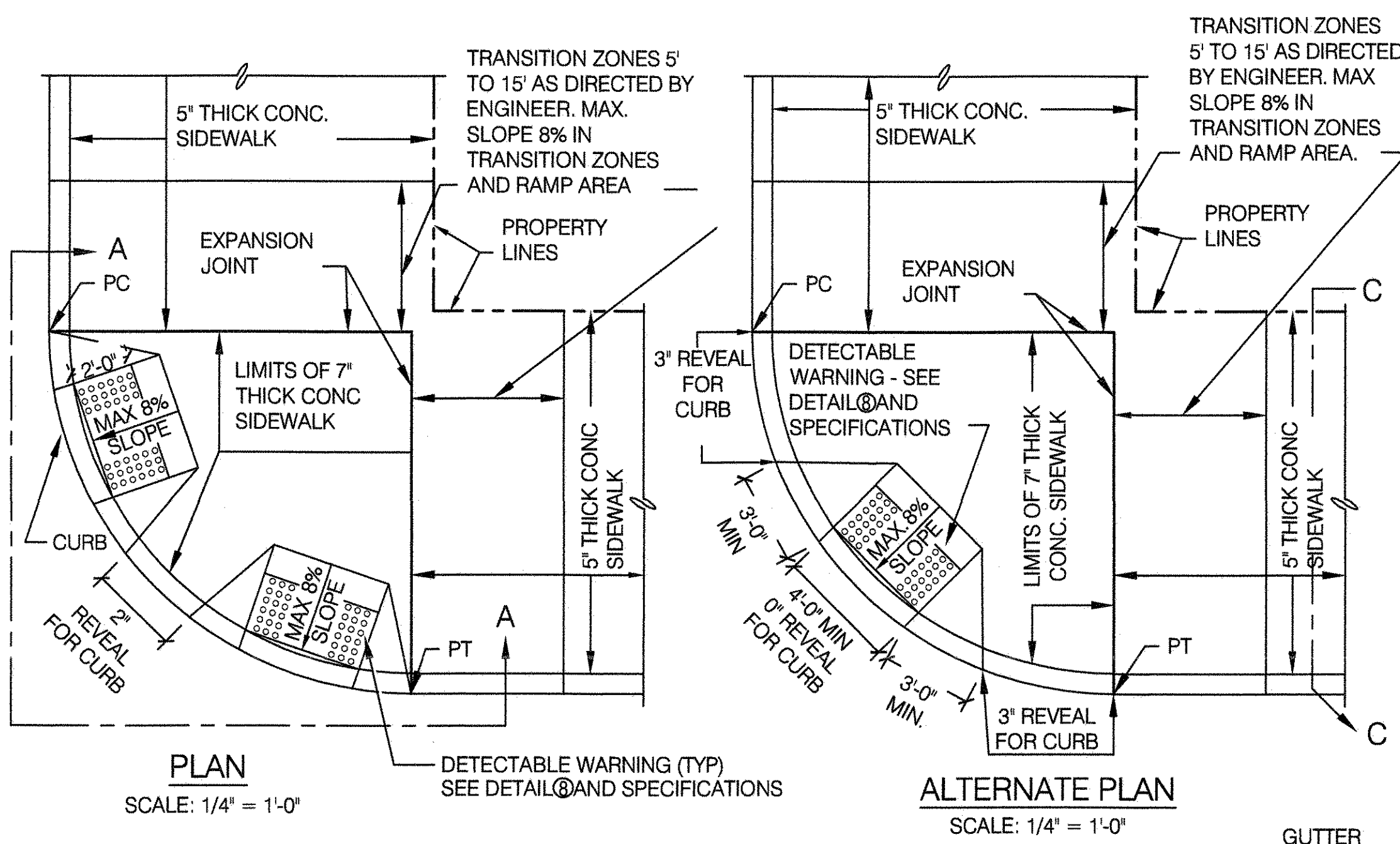
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 DRAWING TITLE
CURBS AND PIERS

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DATE 09-01-2020	SCALE AS SHOWN

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1 D.O.T. SIDEWALK PEDESTRIAN RAMPS

SCALE: NOT TO SCALE



NOTES:
 1. CURB DETAILS NOT SHOWN ARE THE SAME AS THOSE SHOWN ON NYC DOT STANDARD DETAILS OF CONSTRUCTION SHEET H-1010. ALL MATERIALS AND CONSTRUCTION METHODS USED ARE TO CONFORM TO SECTIONS #4.08/4.09/4.13 OF THE STANDARD SPECIFICATIONS, LATEST EDITION, AS AMENDED.

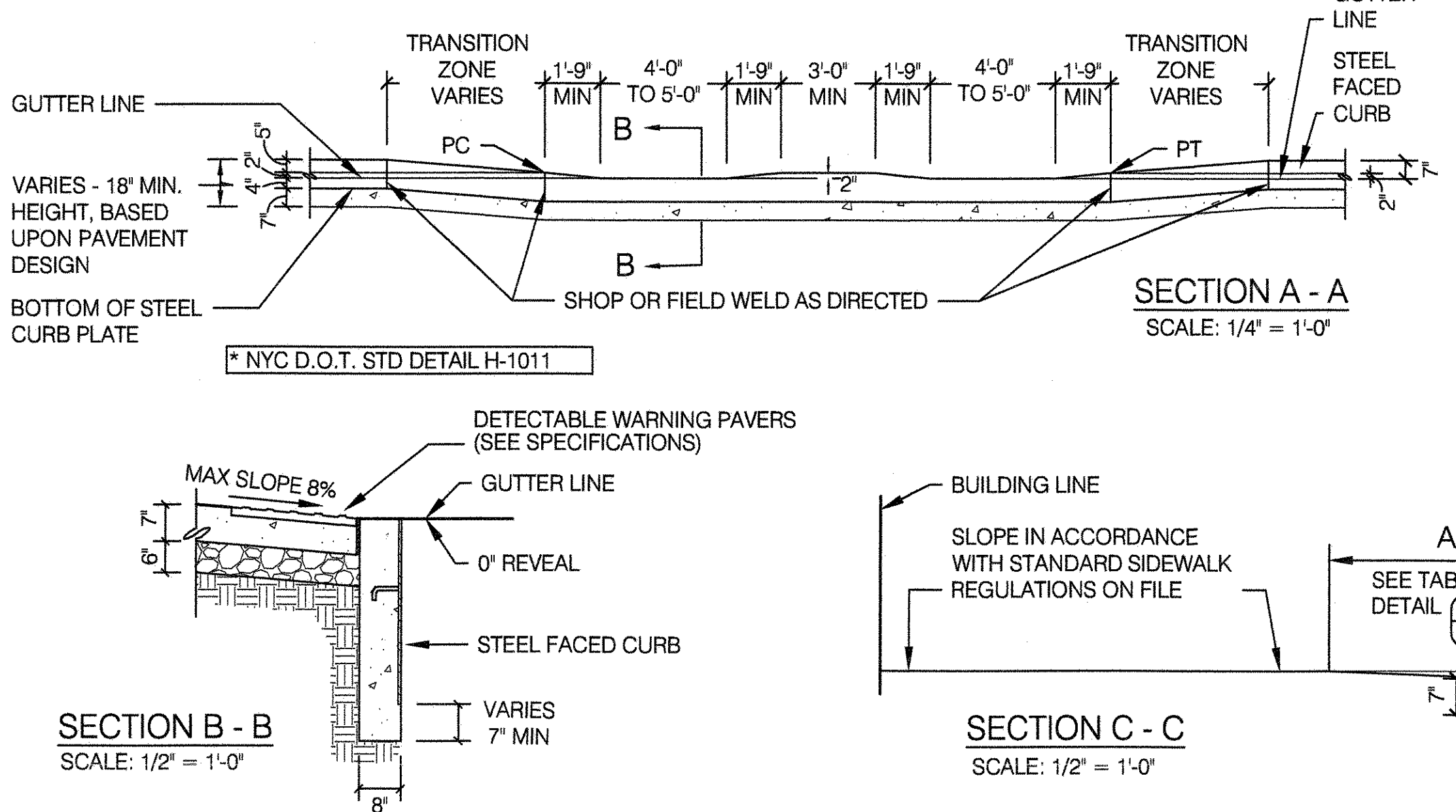
2. THE CONDITIONS AND RAMP DIMENSIONS SHOWN ARE FOR A 12' RADIUS CORNER. THEREFORE THE ACTUAL LOCATIONS OF SIDEWALK PEDESTRIAN RAMPS ARE TO BE DETERMINED BY INCREASING THE 3' MINIMUM CENTER ROUND ARC BETWEEN THE TWO RAMPS. WHEN INSTALLING PEDESTRIAN RAMPS ON A REQUIREMENT CONTRACT, ALLOWANCE SHALL BE MADE FOR EXISTING CONDITIONS SO LONG AS THE SLOPE OF THE RAMP DOES NOT EXCEED 8% AND THE ZERO INCH REVEAL IS OBTAINED. TO INSURE THAT SOUND ENGINEERING JUDGEMENT IS USED IN MEETING EXISTING CONDITIONS, ANY AND ALL VARIATIONS FROM THESE DETAILS OF CONSTRUCTION MUST HAVE THE JOINT APPROVAL OF THE ASSISTANT COMMISSIONER OF DESIGN AND THE ASSISTANT COMMISSIONER OF CONSTRUCTION OF THE NYC DOT.

3. ALTERNATE PLAN SHALL BE USED ONLY WHERE EXPLICITLY DIRECTED BY THE ENGINEER AND APPROVED BY THE COMMISSIONER.

4. THE LANDING BETWEEN THE PROPERTY LINES AND THE BACK EDGE OF THE RAMPS SHALL BE AT LEAST 4' WIDE.

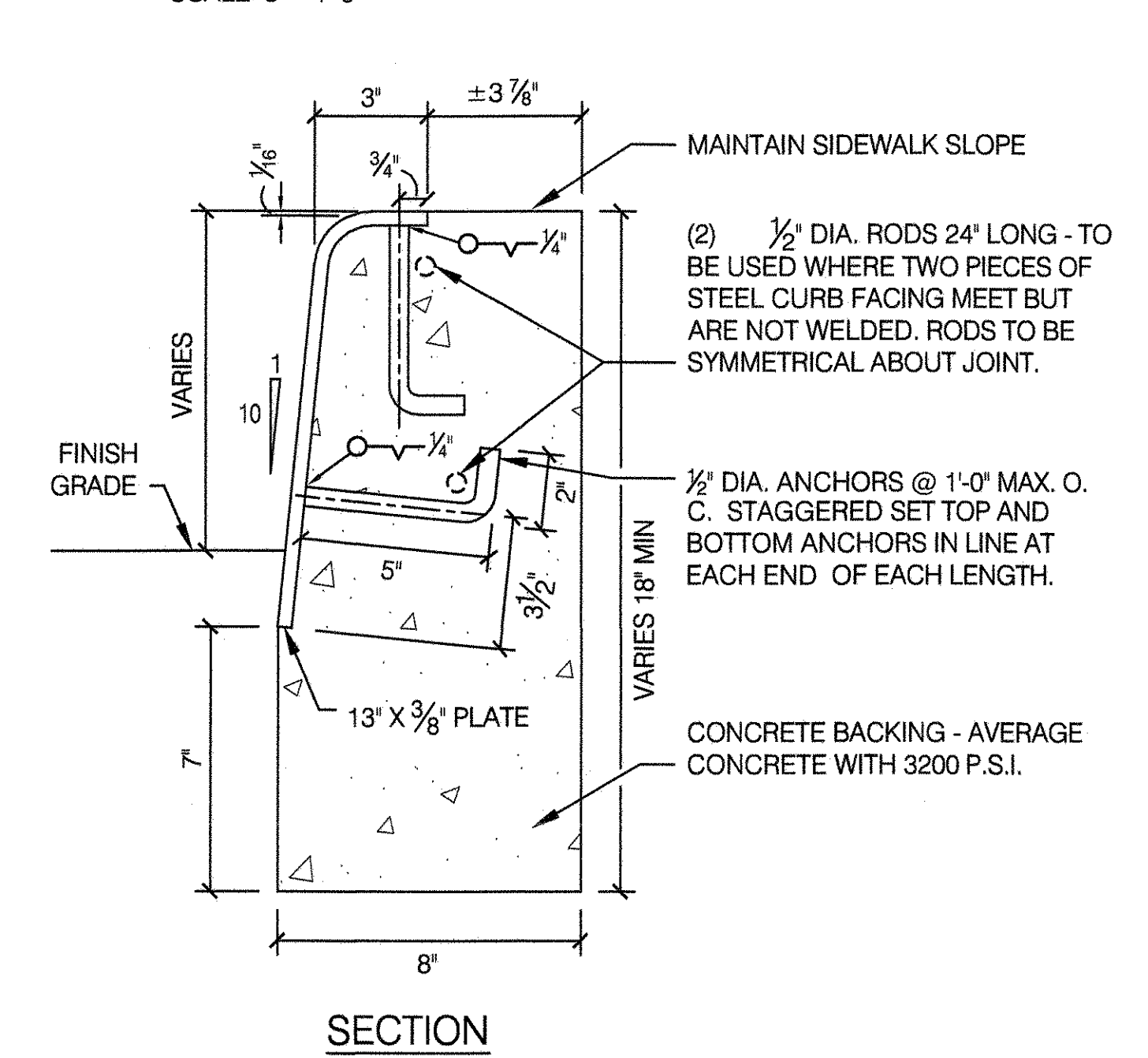
5. ALL EXPOSED STEEL SURFACES SHALL BE GROUND SMOOTH.

6. ON FULL WIDTH SIDEWALKS, EXPANSION JOINTS TO BE PLACED AT BUILDING FACES AND STRUCTURES, AS WELL AS AT BACK FACE OF CURB.



2 D.O.T. STEEL FACED STREET CURB

SCALE 3" = 1'-0"

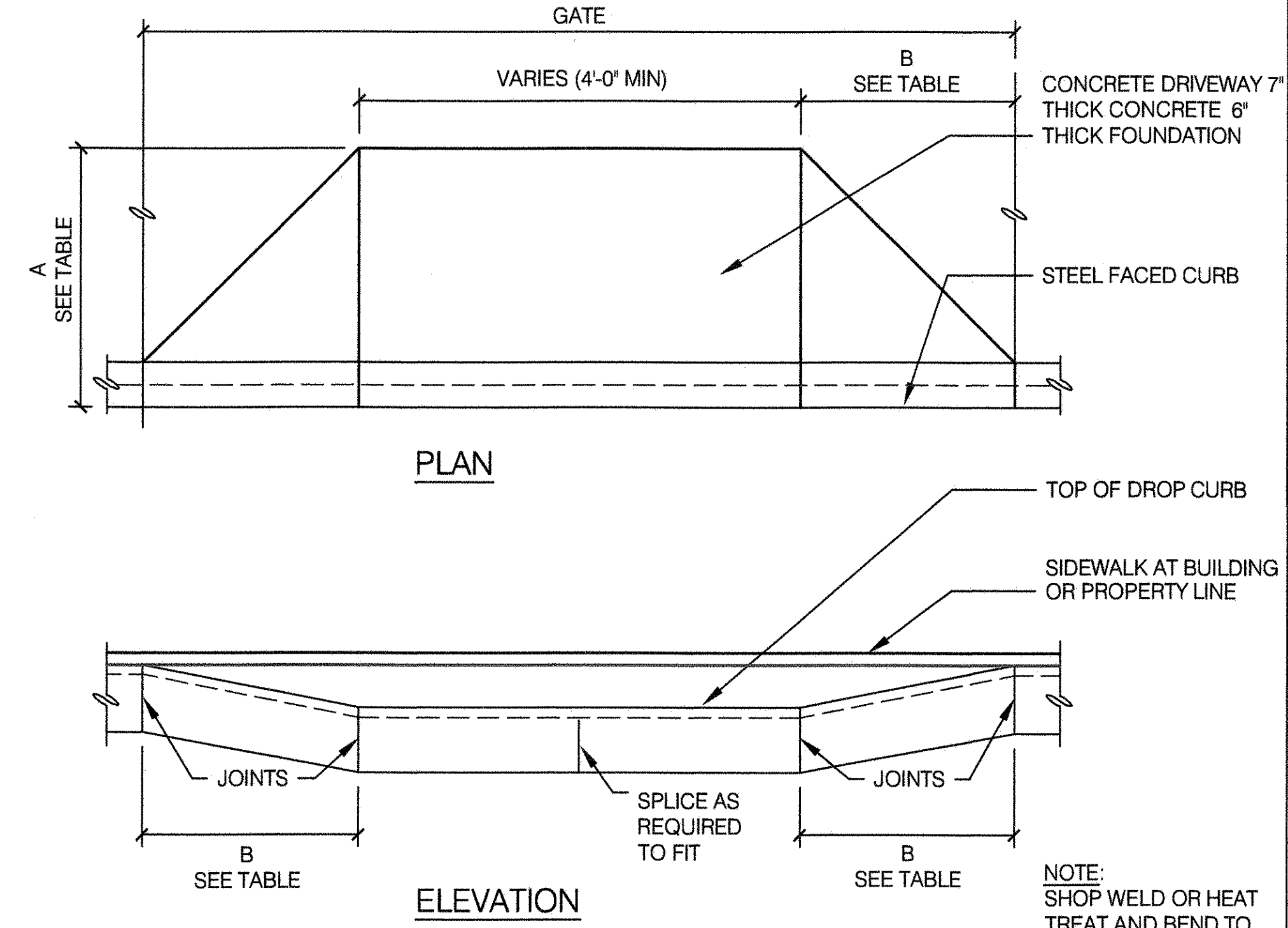


NOTES:
 1. EXPANSION JOINTS IN THE STEEL CURB FACING AND CONCRETE BACKING SHALL BE AT A MAXIMUM SPACING OF 24 FEET.
 2. THE EXPANSION JOINTS OF THE CURB AND STEEL CURB FACING SHALL LINE UP WITH THE EXPANSION JOINTS OF THE CONCRETE SIDEWALKS, WHEREVER POSSIBLE.
 3. NO PIECE OF STEEL CURB FACING HAVING LESS THAN TWO (2) WELDED DOWELS MAY BE INSTALLED UNLESS IT IS WELDED TO THE ADJACENT STEEL CURB FACING.
 4. 1/2" DIA. X 6" HEADED ANCHOR STUDS (GRANULAR OR SOLID FLUX FILLED) MAY BE SUBSTITUTED.
 5. STRUCTURAL STEEL (A.S.T.M. DESIGNATION A36)
 6. SURFACE TO BE CLEANED AND PAINTED AS PER NYCDOT STANDARD HIGHWAY SPECIFICATIONS, SECTION 2.13. COLOR OF TOP COAT SHALL BE GRAY AS APPROVED BY THE ENGINEER.
 7. WHERE TWO (2) PIECES OF STEEL CURB FACING ARE JOINED BUT NOT WELDED, TWO (2) ONE-HALF (1/2) INCH RODS, TWENTY FOUR (24) INCHES LONG SHALL BE INSERTED INTO THE CONCRETE BACKING. ONE-HALF (1/2) THE LENGTH AT EACH SIDE OF THE JOINT.
 8. CONCRETE TO BE DOT CLASS B-32, AIR-ENTRAINED.
 9. CORNER CURB: VERTICAL FACE WILL BE ACCEPTABLE FOR CORNER CURBS PROVIDING THE ENDS ARE WARPED TO FORM A TRANSITION WITH ADJACENT BATTERED FACE CURBS.

* NYC D.O.T. STD DETAIL H-1010

3 D.O.T. STEEL FACED DROP CURB - DRIVEWAYS

SCALE: NOT TO SCALE



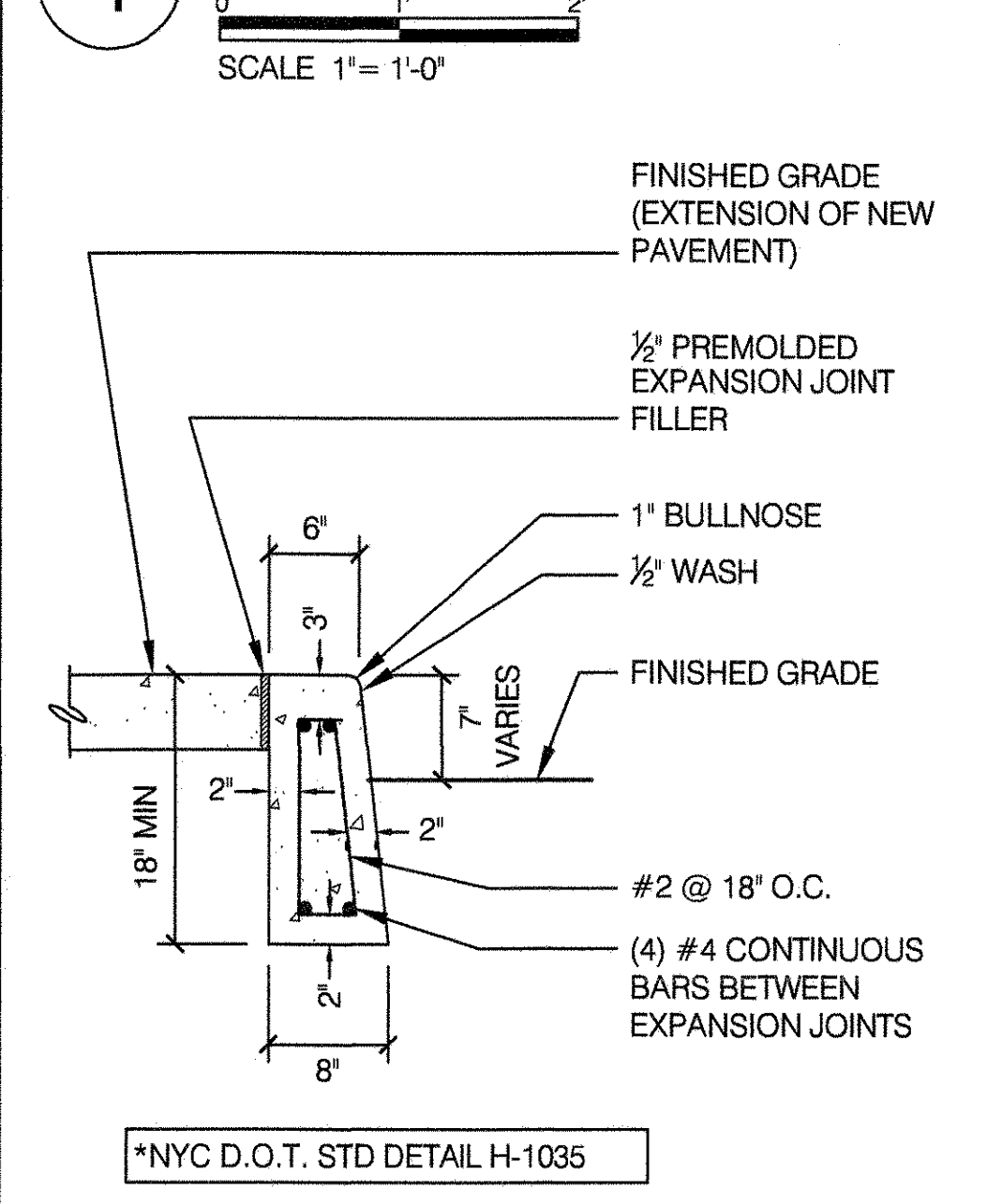
GUTTER REVEAL (INCHES)	A	B
4 1/2"	2'-0"	1'-6"
5"	2'-3"	1'-8"
5 1/2"	2'-6"	1'-11"
6"	2'-9"	2'-1"
6 1/2"	3'-1"	2'-4"
7"	3'-4"	2'-6"
7 1/2"	3'-7"	2'-9"
8"	3'-11"	2'-11"
8 1/2"	4'-2"	3'-2"
9"	4'-6"	3'-4"

NOTES:
 1. 1/2" Ø X 5" HEADED ANCHOR STUDS (GRANULAR OR SOLID FLUX FILLED) MAY BE SUBSTITUTED.
 2. STRUCTURAL STEEL AS PER ASTM A-36.
 3. CONCRETE SHALL BE 3,200 P.S.I. AVERAGE CONCRETE
 4. SURFACE TO BE PAINTED SHALL BE THOROUGHLY CLEANED THEN PAINTED WITH ONE SHOP COAT.

* NYC D.O.T. STD DETAIL H-1015

4 D.O.T. REINFORCED CONCRETE STREET CURB

SCALE 1" = 1'-0"

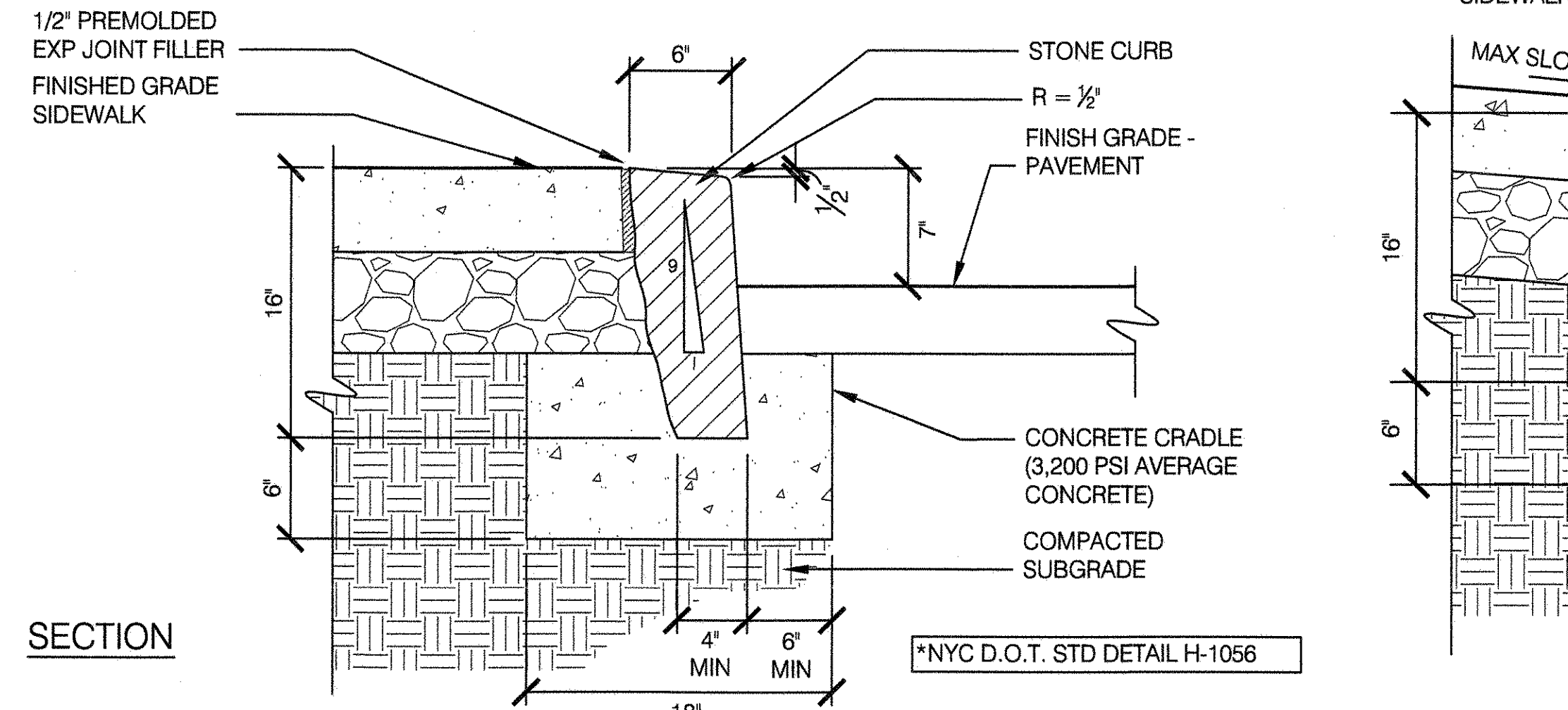


NOTES:
 1. WHERE RAISED CURB MEETS ADJACENT CURBS OF DIFFERENT WIDTH, USE CURB TRANSITION DETAIL NO. 15 ON STANDARD SHEET NO. 17.
 2. DEPTH OF FOOTING MAY VARY DUE TO FIELD CONDITIONS AND SHALL BE DETERMINED BY ENGINEER IN FIELD. 2'-10" MIN.
 3. FOOTING FOR CURBS WILL BE PAID FOR UNDER ITEM 'CONCRETE CURB'.
 4. ALL REBARS SHALL BE DEFORMED, EXCEPT AS NOTED.
 5. DISTANCE CENTER TO CENTER OF EXPANSION JOINTS TO BE 20'-0" MAXIMUM. REFER TO STANDARD DETAIL SHEET NO. 16.
 6. THE EXPANSION JOINTS OF THE CURB SHOULD LINE UP WITH THE EXPANSION JOINTS IN THE CONCRETE SIDEWALK.
 7. THE SLOPE OF THE CURB SHALL CONFORM TO THE SLOPE OF THE SIDEWALK.

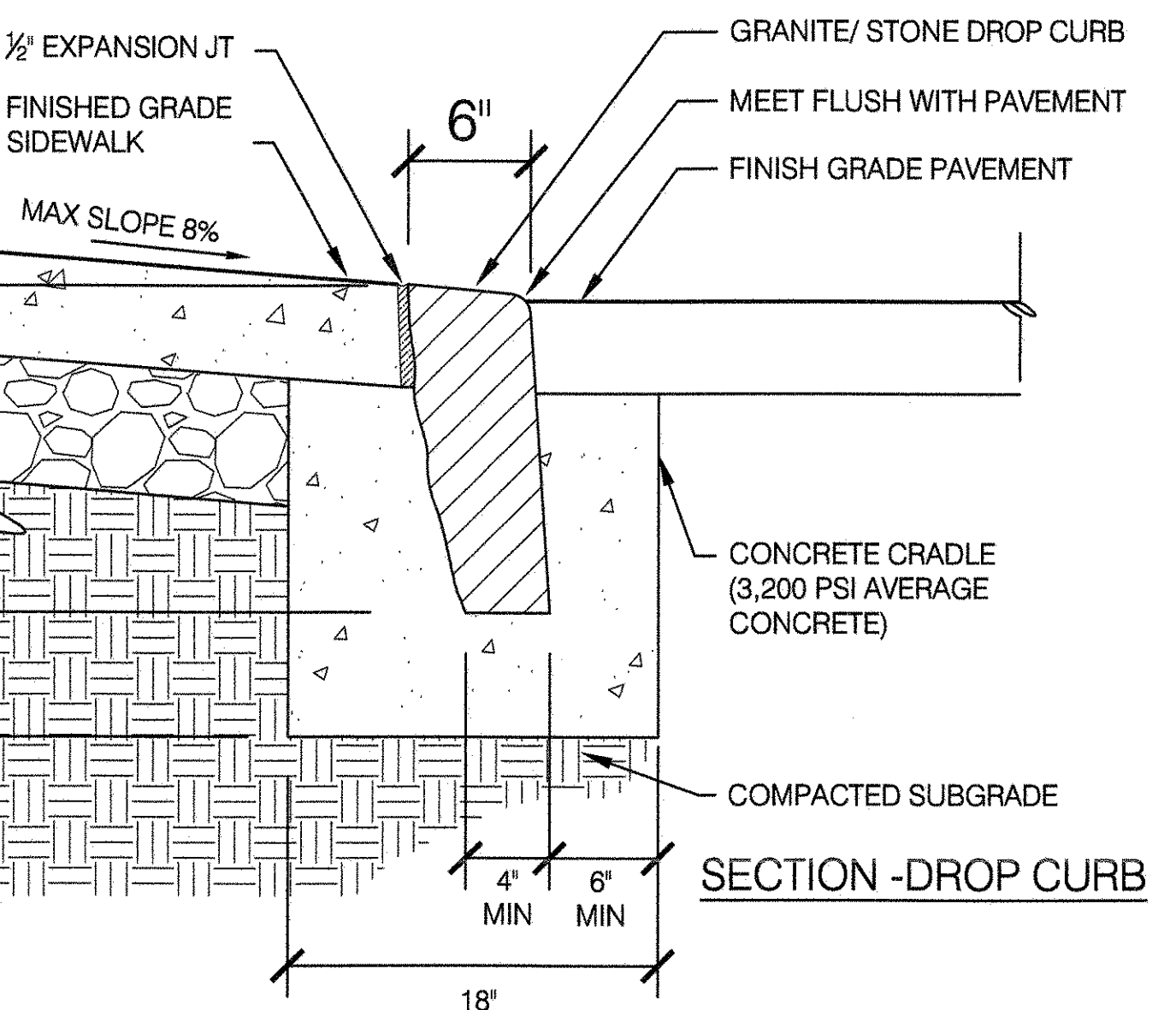
* NYC D.O.T. STD DETAIL H-1035

5 D.O.T. STONE CURB AND DROP CURB

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



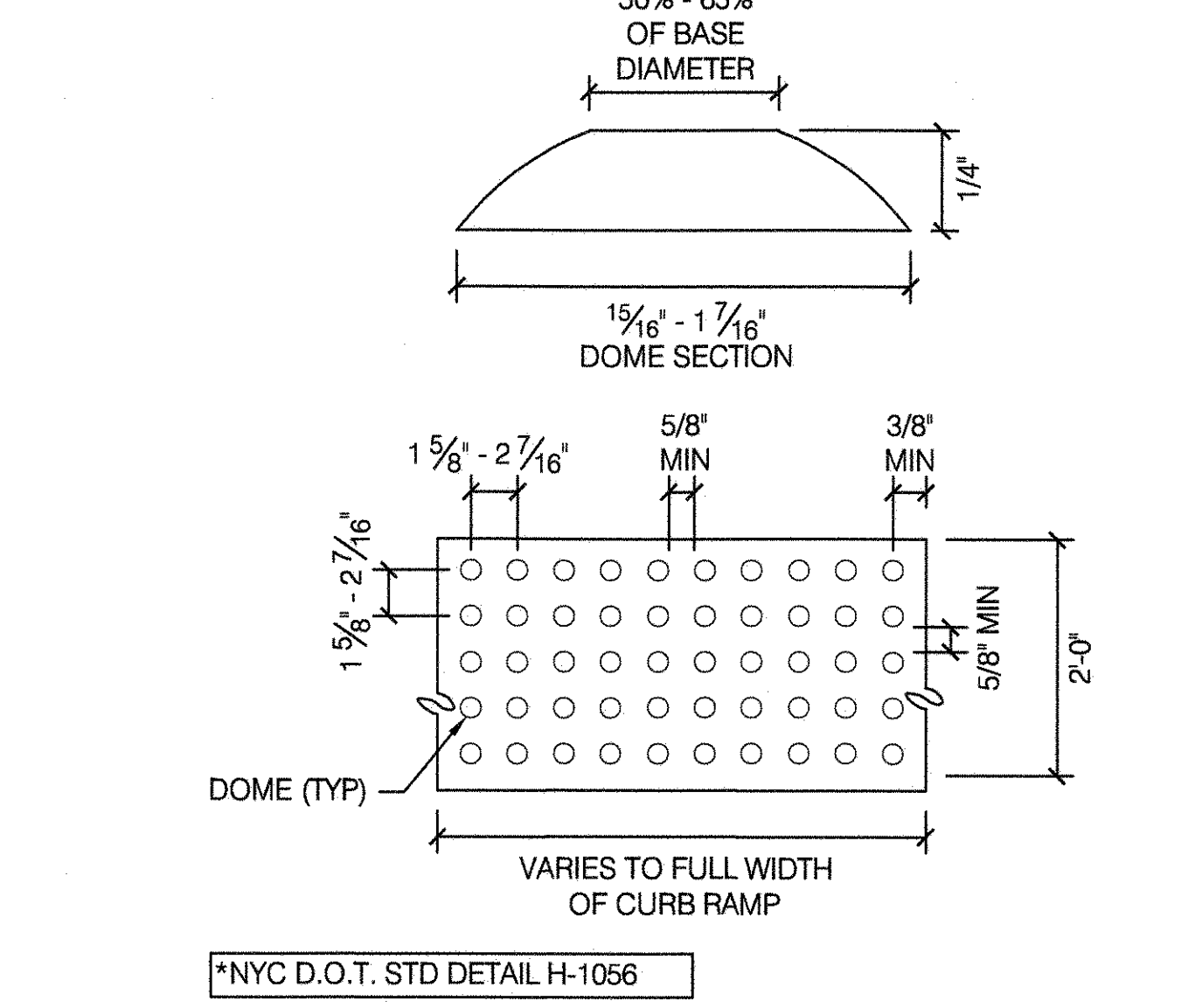
* NYC D.O.T. STD DETAIL H-1056



NOTES:
 A. LENGTHS OF STRAIGHT STONE CURB SHALL RANGE FROM 4 FT TO 12 FT LONG, 80% SHALL BE 6 FT OR GREATER.
 B. LENGTHS OF CORNER STONE CURB SHALL RANGE FROM 3 FT TO 8 FT LONG, 80% SHALL BE 4 FT OR GREATER.
 C. LENGTH OF TRANSITION CURB (STRAIGHT OR CURVED) AT CORNERS SHALL BE 5 FT LONG.
 D. IF GRANITE IS USED, EXPOSED SURFACES OF THE CURB SHALL HAVE BUSH HAMMERED OR THERMAL FINISH, WITH NO DRILL HOLES. SEE SPECIFICATION FOR ALL OTHER STONE FINISHES.

8 DETECTABLE WARNING DETAILS

SCALE: NOT TO SCALE

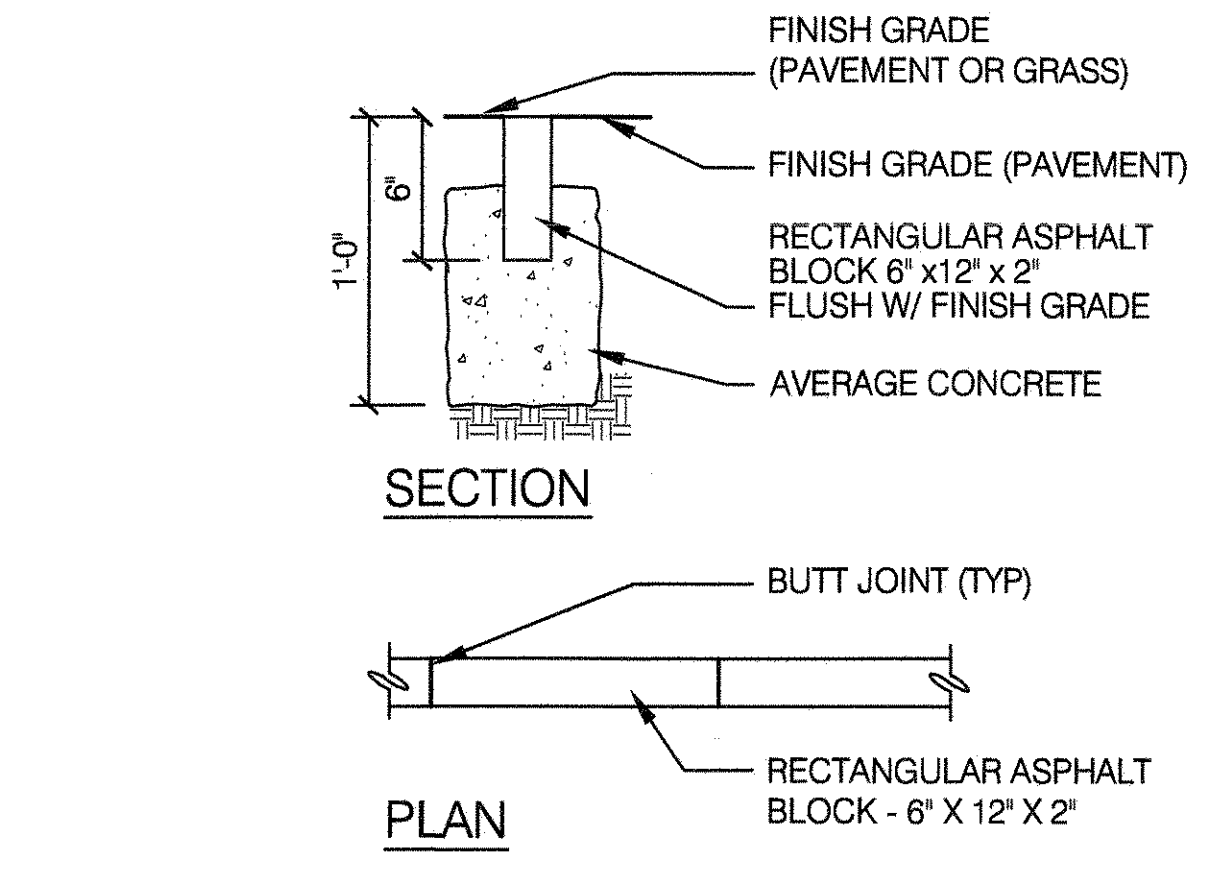


NOTES:
 1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE, THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING FIELD (THE DOMES AND THE ENTIRE 2 FOOT LEVEL SURFACE) ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE SPECIFICATION FOR PRODUCT INFORMATION.
 2. DOME ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL.
 3. COLOR REQUIREMENTS. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR SHALL VISUALLY CONTRAST WITH THE ADJOINING CURB RAMP. OTHER ADJACENT WALKWAY SURFACES WHERE THERE IS NO CURB RAMP, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT AS DEFINED IN THE AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES (ADAAG).

* NYC D.O.T. STD DETAIL H-1056

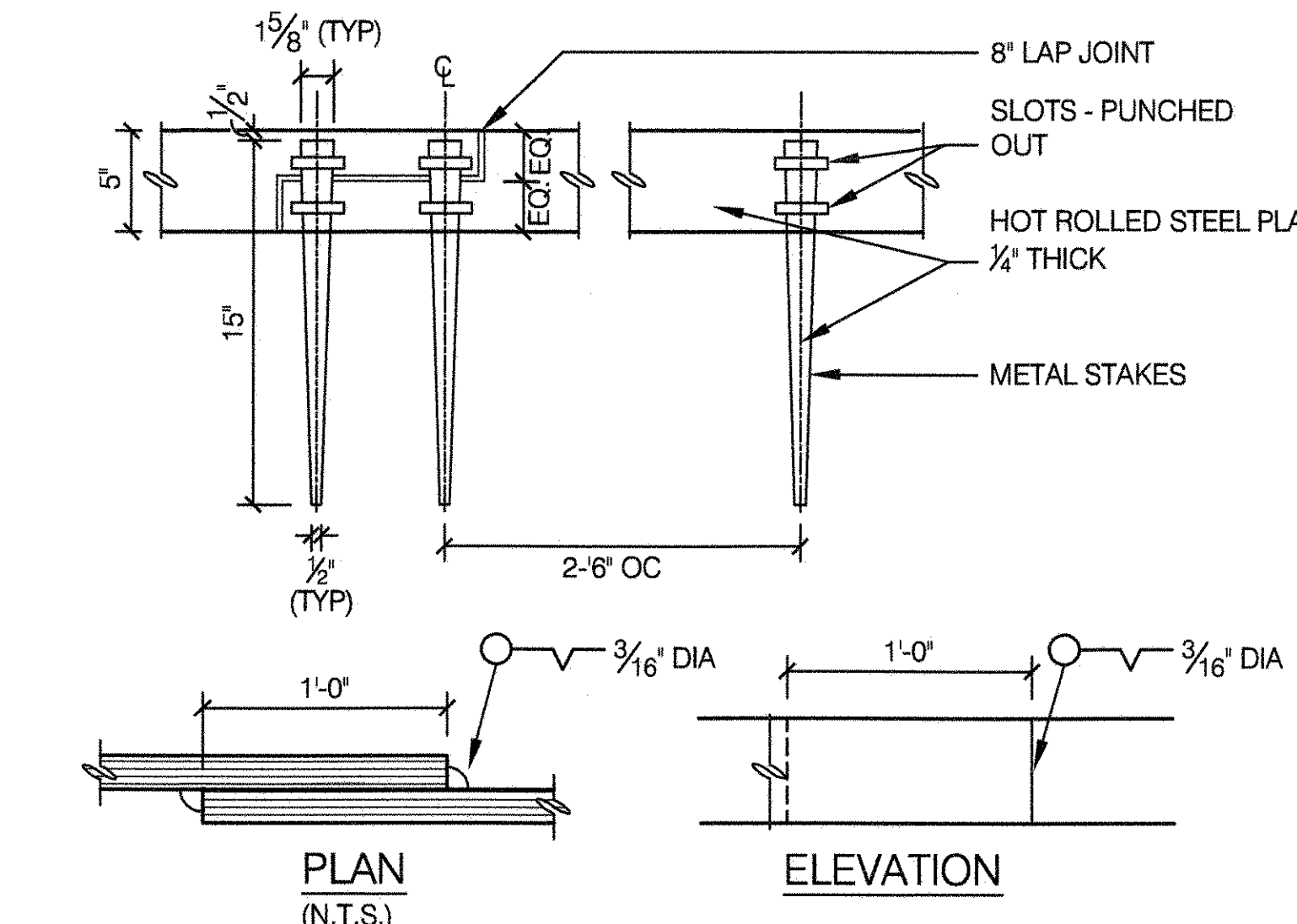
9 ASPHALT BLOCK CURB

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



10 STEEL EDGING

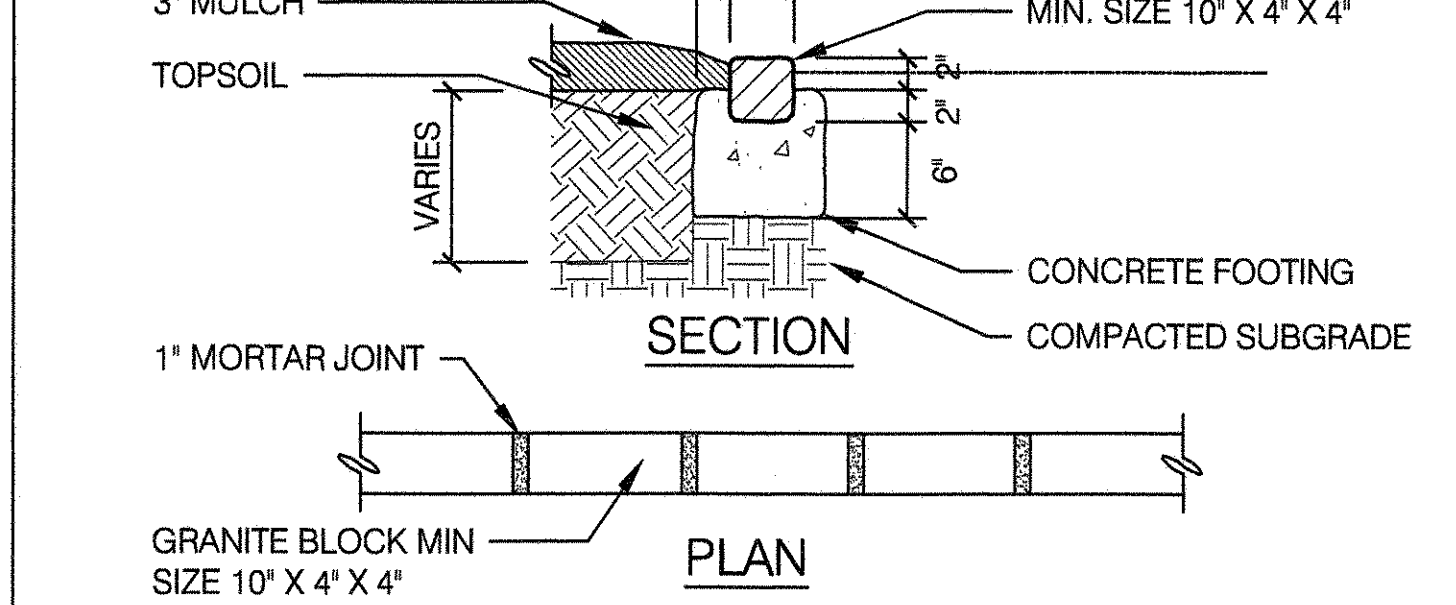
SCALE 1 1/2" = 1'-0"



NOTES:
 1. ALL ANGLES, ARCS, AND RADII SHALL BE MECHANICALLY BENT.
 2. ALL WELDS TO BE PAINTED TO MATCH PAINTED EDGING.

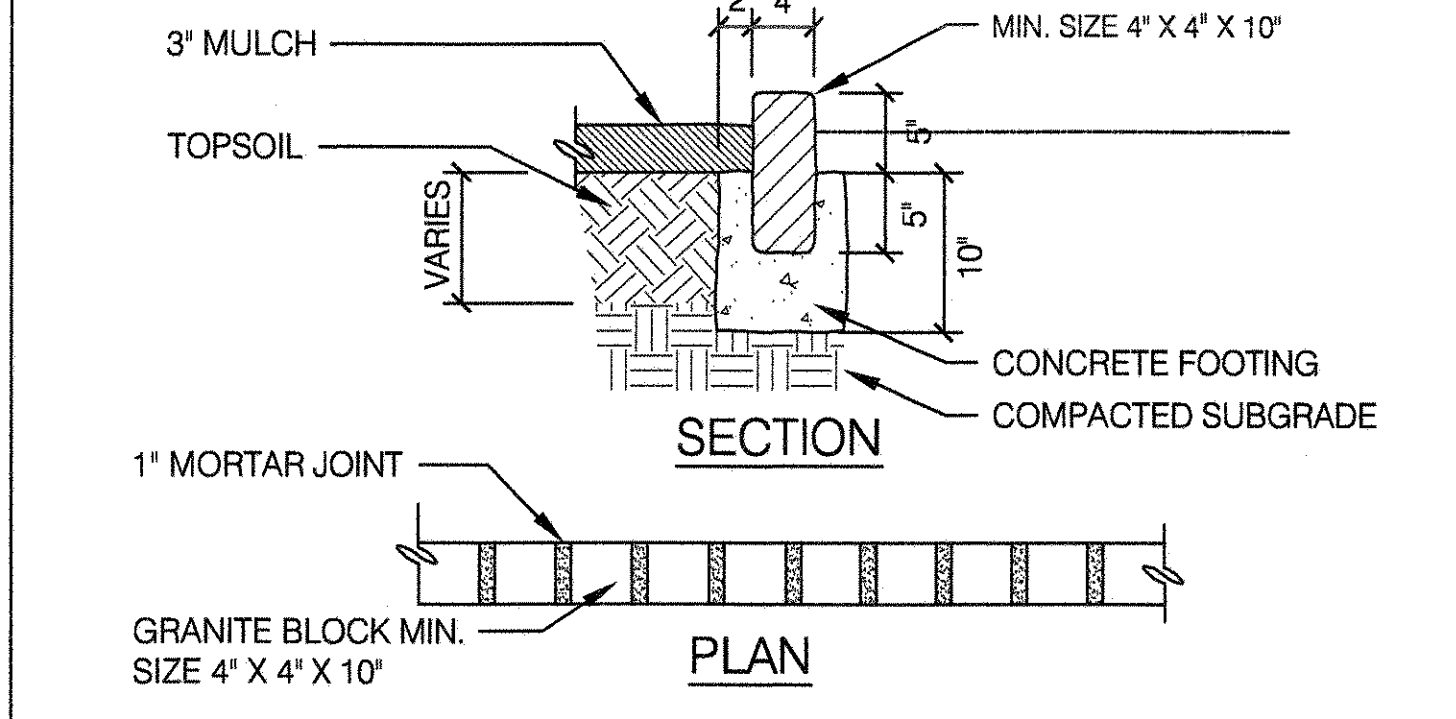
11 GRANITE BLOCK LANDSCAPE EDGING

SCALE 1" = 1'-0"



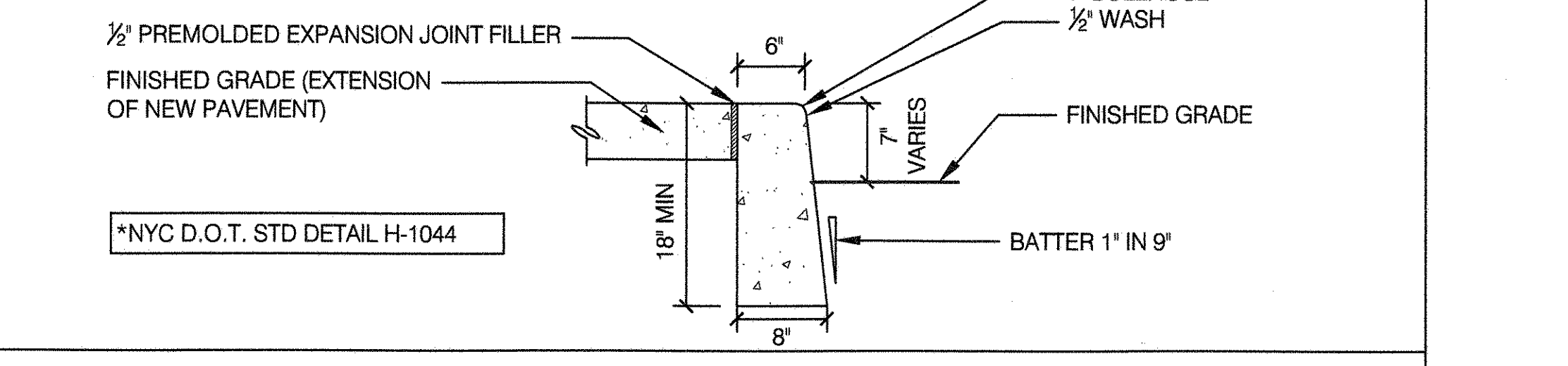
12 SOLDIER GRANITE BLOCK LANDSCAPE EDGING

SCALE 1" = 1'-0"



6 D.O.T. CONCRETE STREET CURB

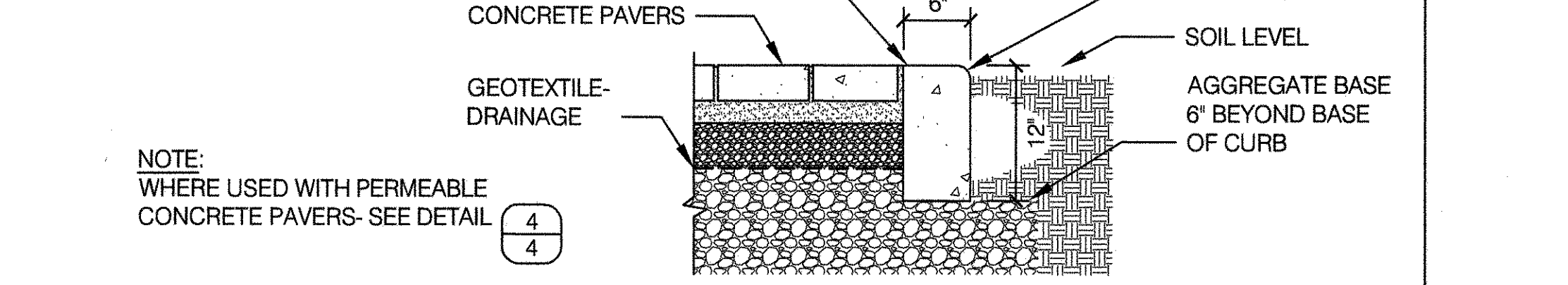
SCALE 1" = 1'-0"



* NYC D.O.T. STD DETAIL H-1044

7 PRECAST CONCRETE PAVER CURB

SCALE 1" = 1'-0"



NOTE: WHERE USED WITH PERMEABLE CONCRETE PAVERS- SEE DETAIL 4

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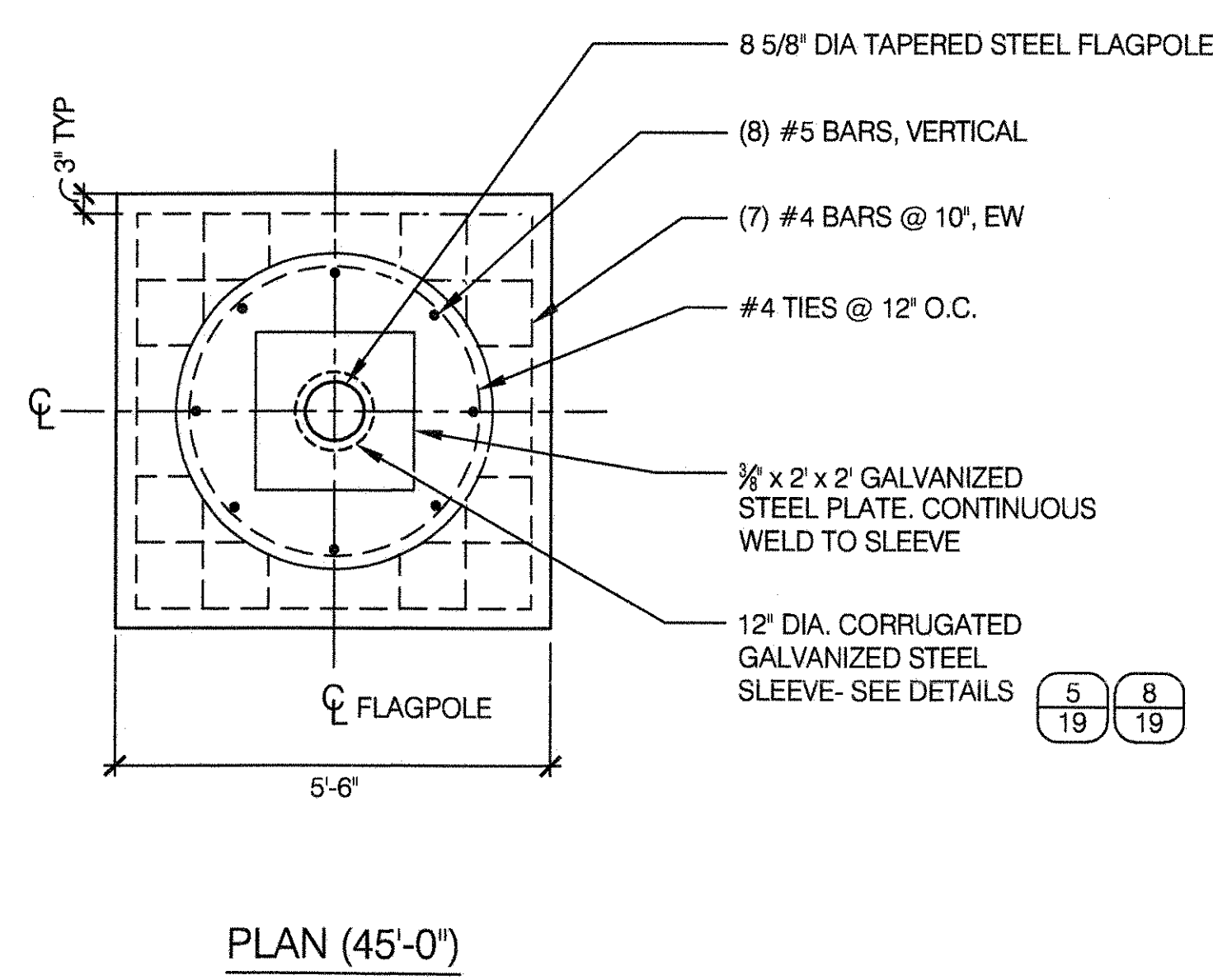
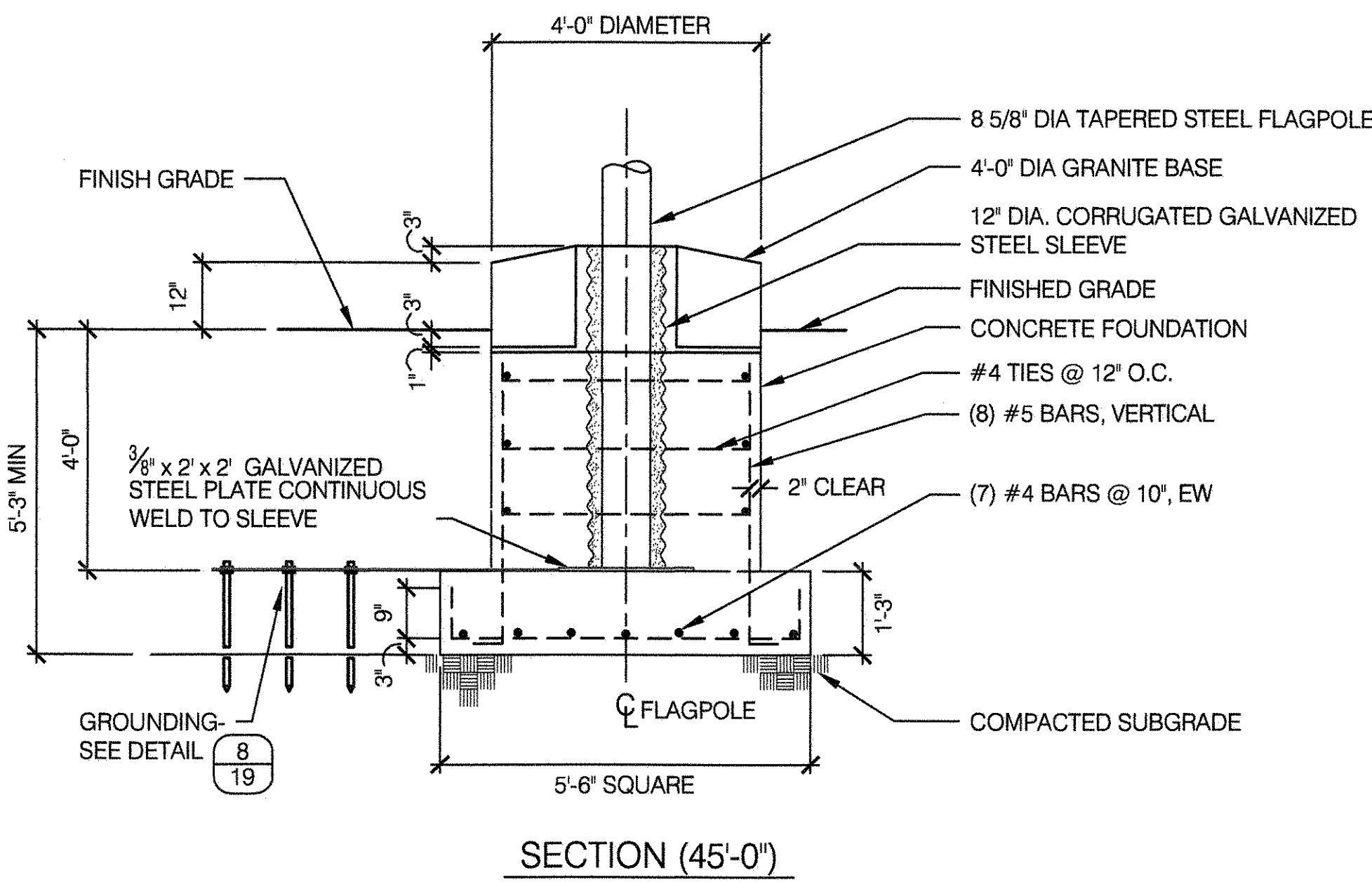
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 DRAWING TITLE: CURBS, RAMPS, AND MISCELLANEOUS DETAILS

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APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 18
DATE 09-01-2020	SCALE AS SHOWN

1 STANDARD FOUNDATION FOR 45' FLAGPOLE

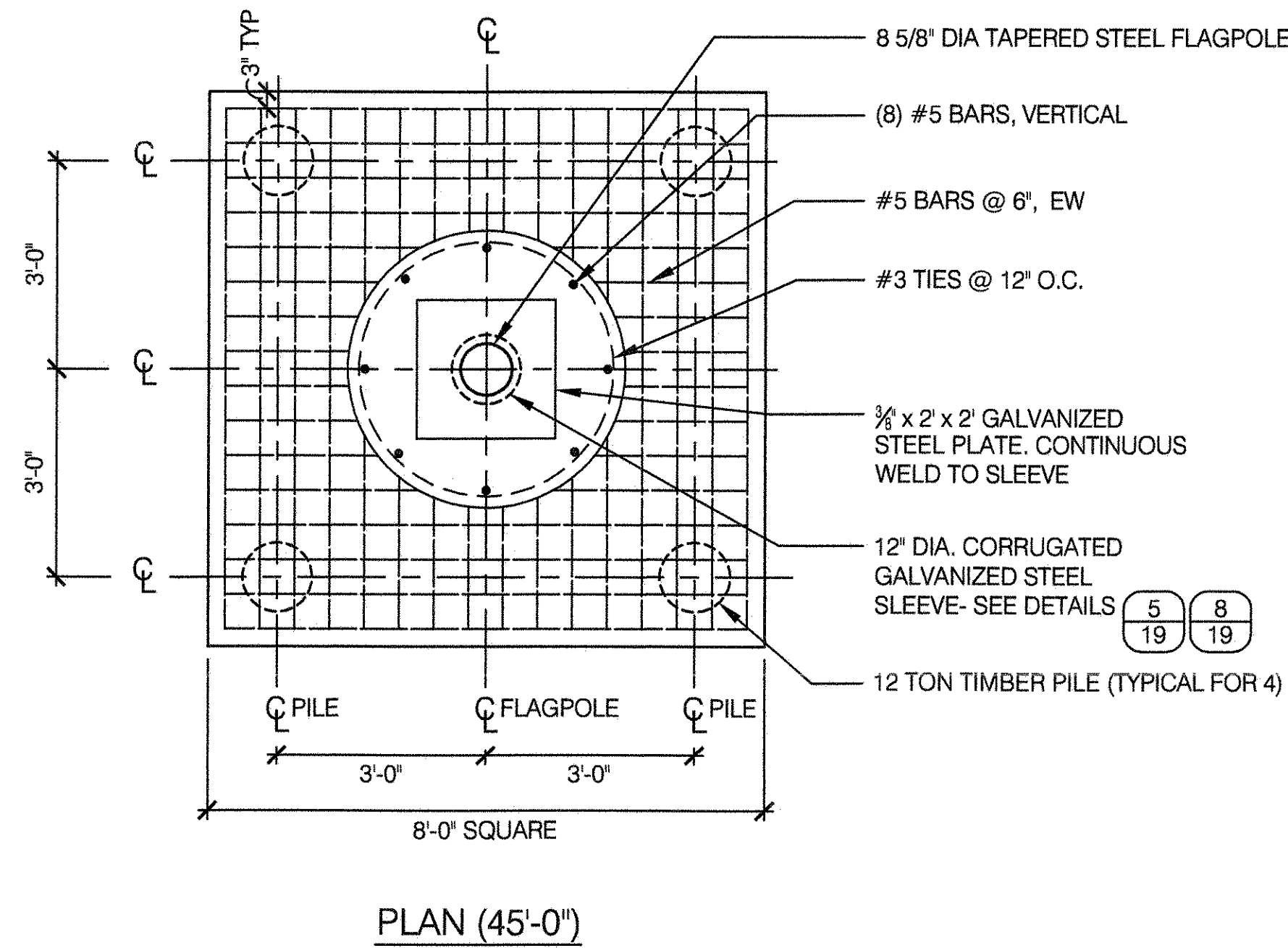
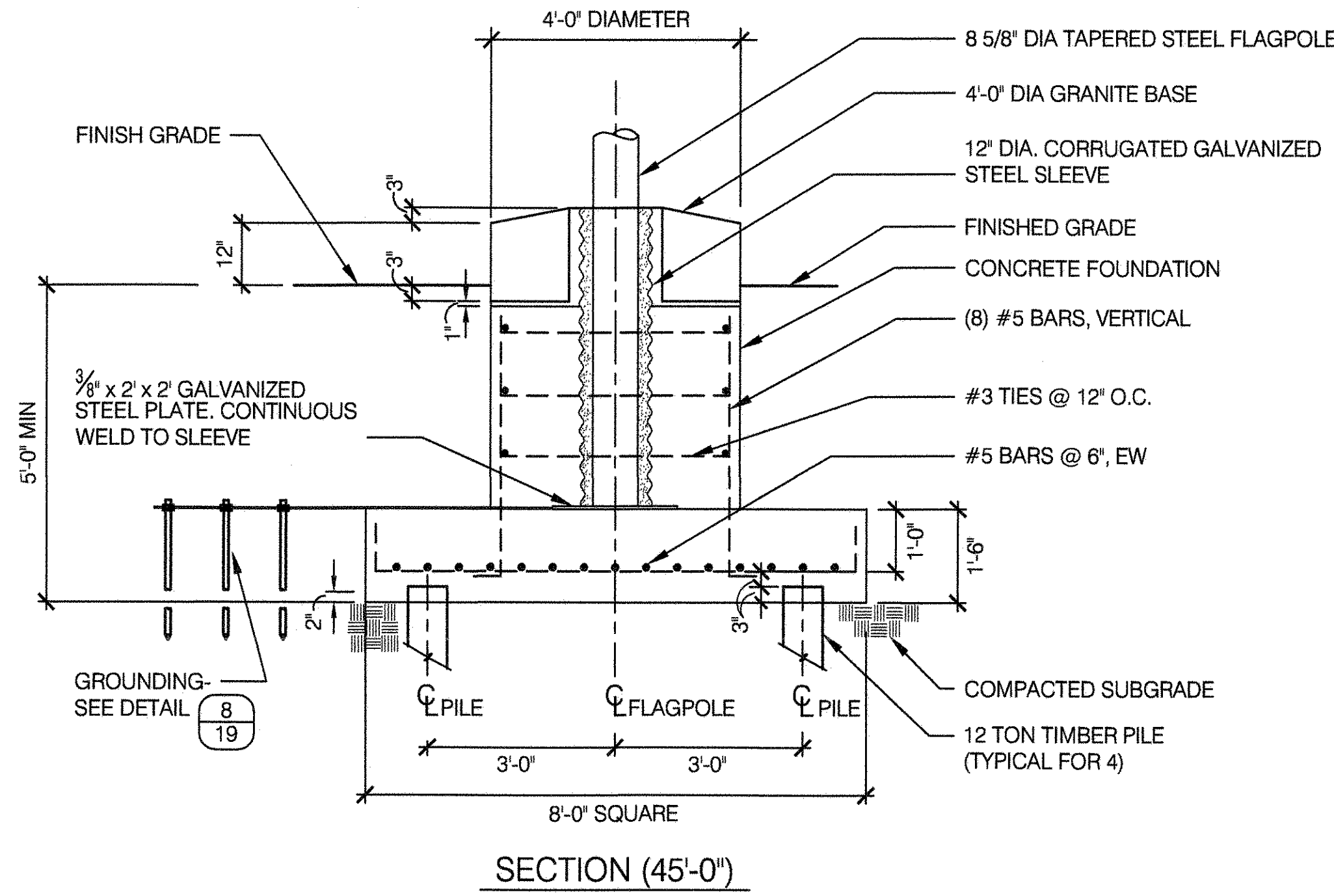
SCALE 1/2" = 1'-0"



- NOTES:**
- FOR STEEL FLAGPOLE DETAILS SEE DPR STD DETAIL SHEET FOR "STEEL FLAGPOLE - 45' HIGH."
 - FOR SOILS WITH (2) TONS OR 4,000 PSF OR BETTER BEARING CAPACITY.

2 FOUNDATION ON TIMBER PILES FOR 45' FLAGPOLE

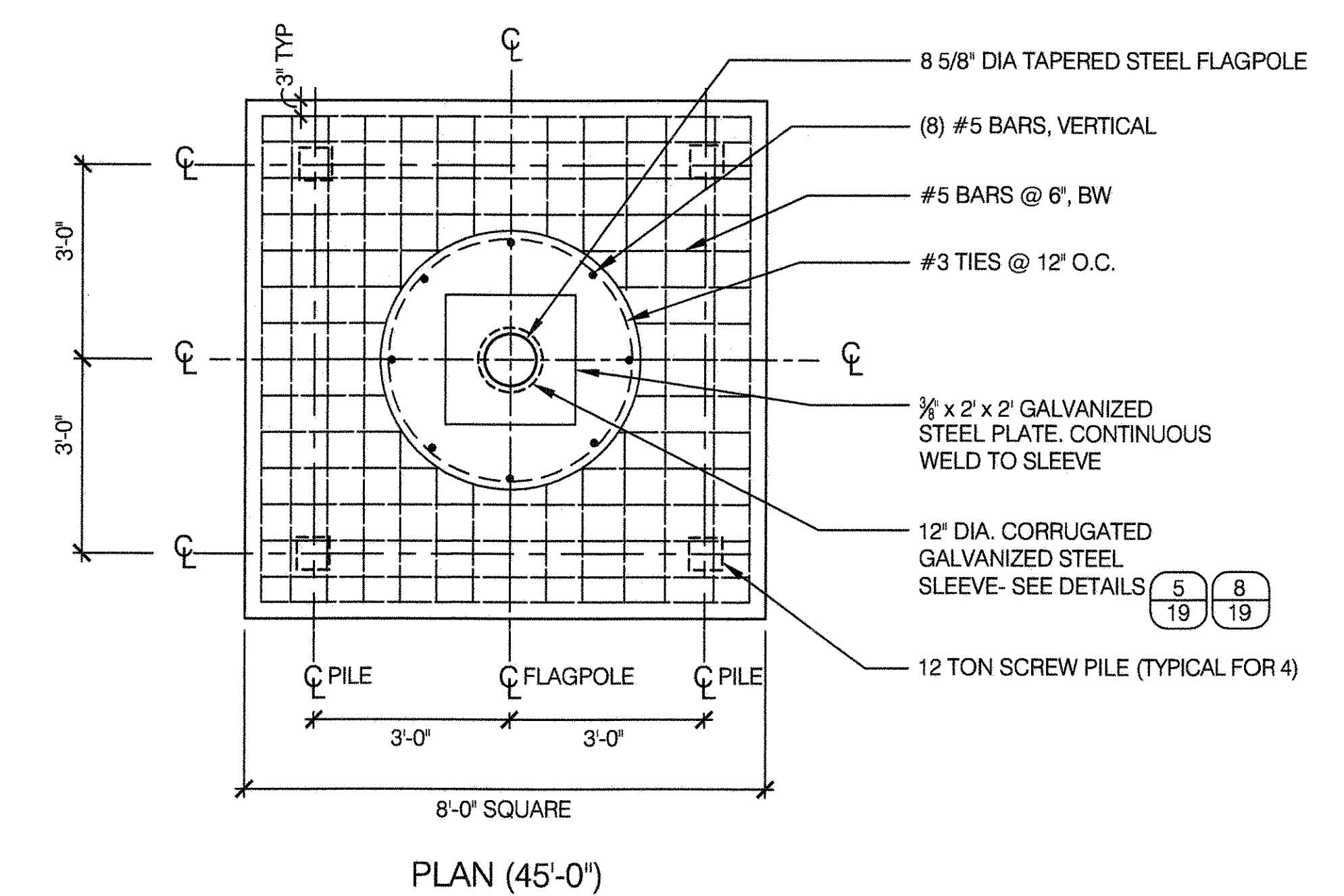
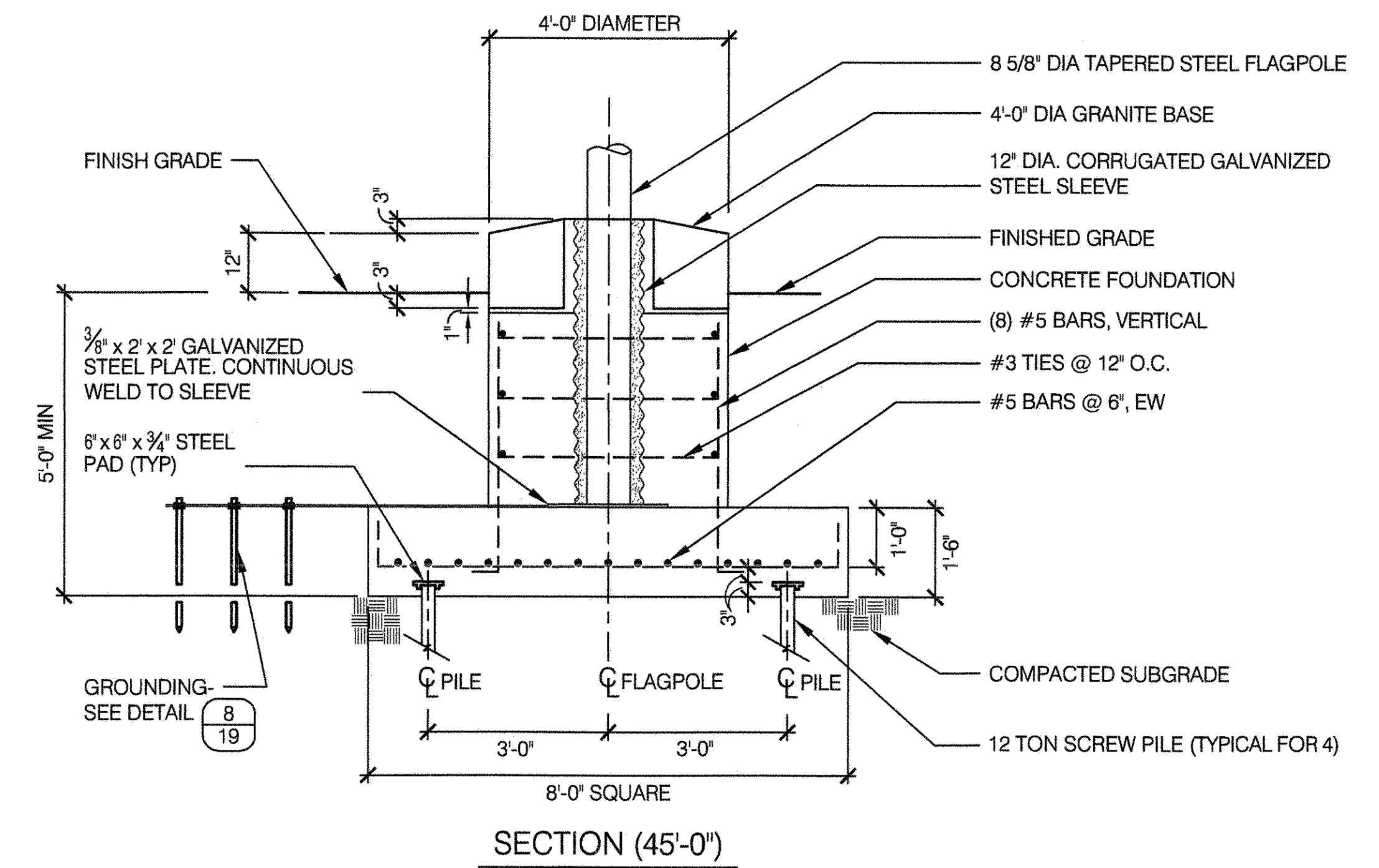
SCALE 1/2" = 1'-0"



- NOTES:**
- FOR STEEL FLAGPOLE DETAILS SEE DPR STD DETAIL SHEET FOR "STEEL FLAGPOLE - 45' HIGH."

3 FOUNDATION ON HELICAL SCREW PILES FOR 45' FLAGPOLE

SCALE 1/2" = 1'-0"



- NOTES:**
- FOR STEEL FLAGPOLE DETAILS SEE DPR STD DETAIL SHEET FOR "STEEL FLAGPOLE - 45' HIGH."
 - HELICAL SCREW PILES SHALL ONLY BE USED UNDER SPECIAL CIRCUMSTANCES, IN ACCORDANCE WITH NYC BUILDING CODE SECTION BC1808.2.3. CONSULT WITH ENGINEERING UNIT.

GENERAL NOTES:

- REINFORCED CONCRETE FOR FOUNDATION SHALL BE CONTROLLED AIR-ENTRAINED CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL ALSO CONFORM TO ACI 318.
- ALL REINFORCING STEEL SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- STANDARD FOUNDATION DETAIL ① DESIGNED FOR A SOIL BEARING CAPACITY OF (2) TSF OR 4,000 PSF, OR GREATER. FOR FOOTING OF LESS THAN 4,000 PSF. SEE DETAILS ② AND ③ UNDER PROFESSIONAL ENGINEER'S CONSULTATION.
- FOR REQUIREMENT TYPE CONTRACTS PLEASE CONSULT ENGINEER OF RECORD FOR SELECTION OF TYPE OF FOUNDATION. PROJECT MANAGER MUST FURNISH BORING DATA AND SOIL ANALYSIS FOR ENGINEER'S REVIEW.
- FOUNDATION SELECTION IS BASED ON SOIL CLASSIFICATION, BORING DATA, AND SOIL CAPACITY.
- UNIT BID PRICE FOR EACH FLAGPOLE SHALL REFLECT COST OF CONCRETE, STEEL ANDEXCAVATION FOR STANDARD FOUNDATION ① (SHOWN ABOVE). EXTEND FOOTING AS DIRECTED BY THE ENGINEER IN ORDER TO ACHIEVE SATISFACTORY BEARING. ADDITIONAL CONCRETE, EXCAVATION OR STEEL BEYOND STANDARD FOUNDATION ① TO BE PAID FOR UNDER ITEMS 'CONTROLLED CONCRETE', 'STEEL BAR REINFORCEMENT' AND 'UNCLASSIFIED EXCAVATION'. PILES PAID FOR SEPARATELY, UNDER ITEMS 'TIMBER PILES' OR 'HELICAL SCREW PILES'.
- BUILDINGS DEPARTMENT FILING REQUIRED FOR ALL FLAGPOLE FOUNDATIONS.
- SPECIAL INSPECTIONS SHALL BE PERFORMED FOR SOIL, CONCRETE AND STEEL WORK IN ACCORDANCE WITH NYC DOB REQUIREMENTS.



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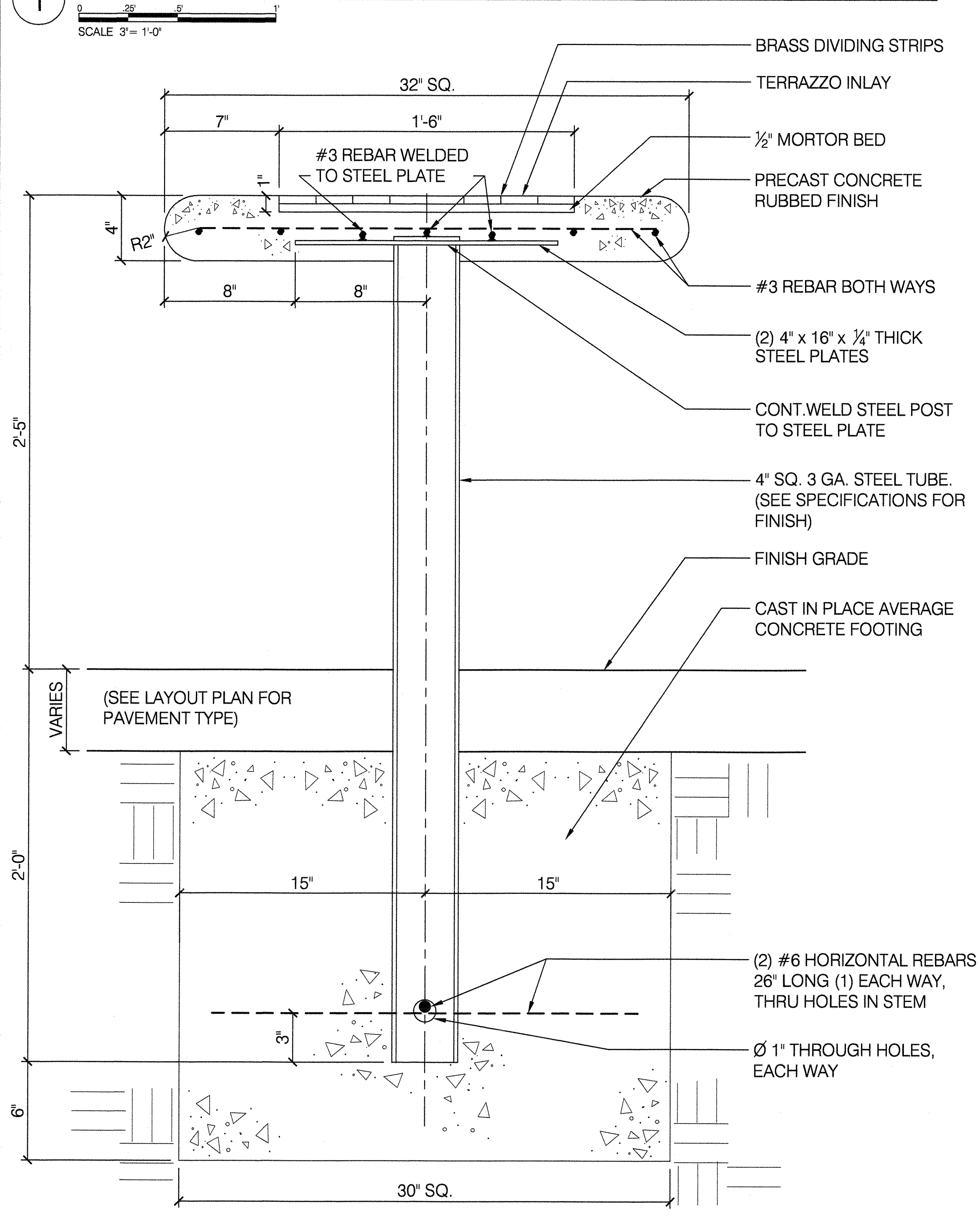
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DRAWING TITLE
FLAGPOLE FOUNDATIONS

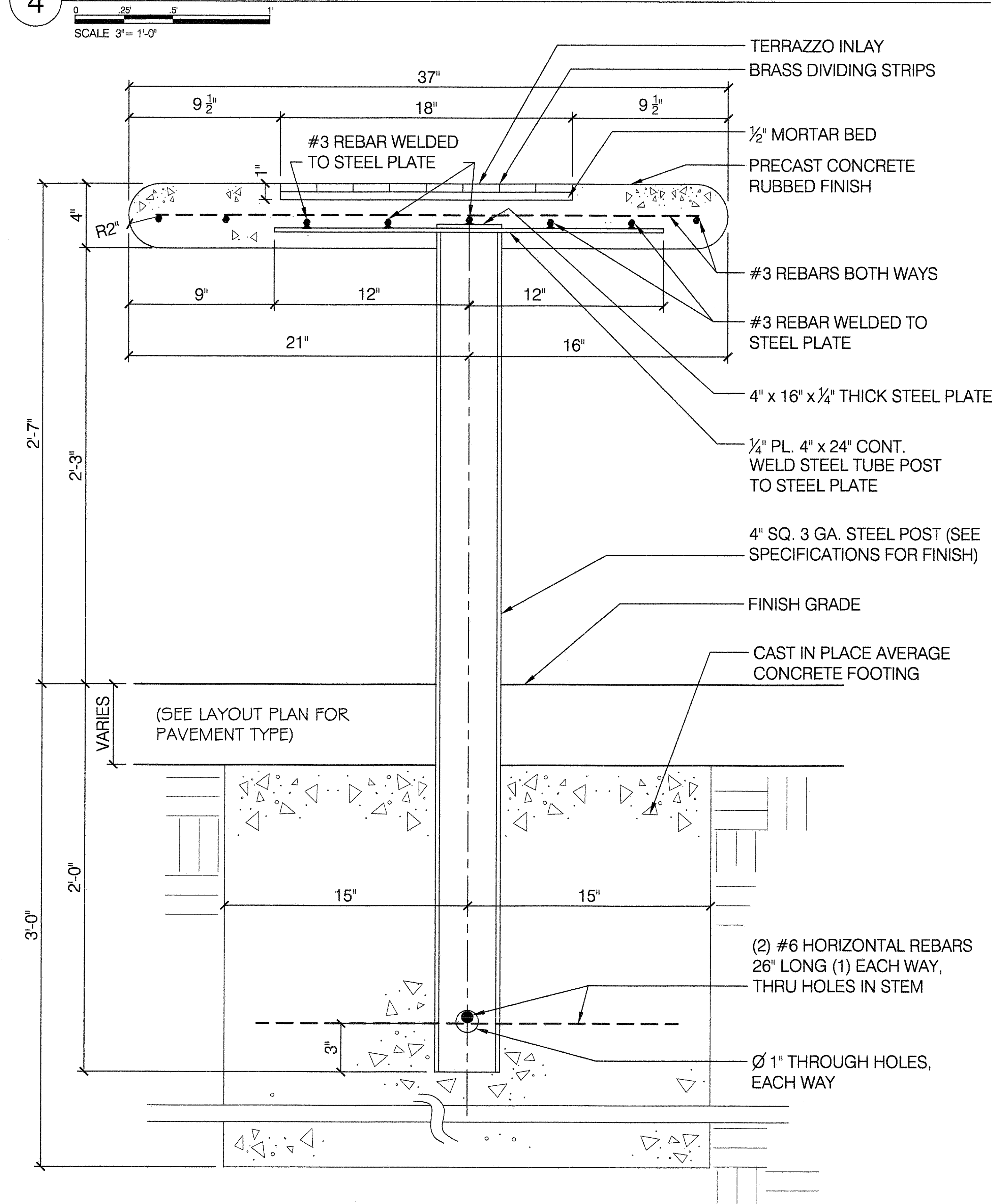
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APPROVED BY DIRECTOR RUBY S. WEI, PE	SHEET NO. 20
DATE 09-01-2020	SCALE AS SHOWN



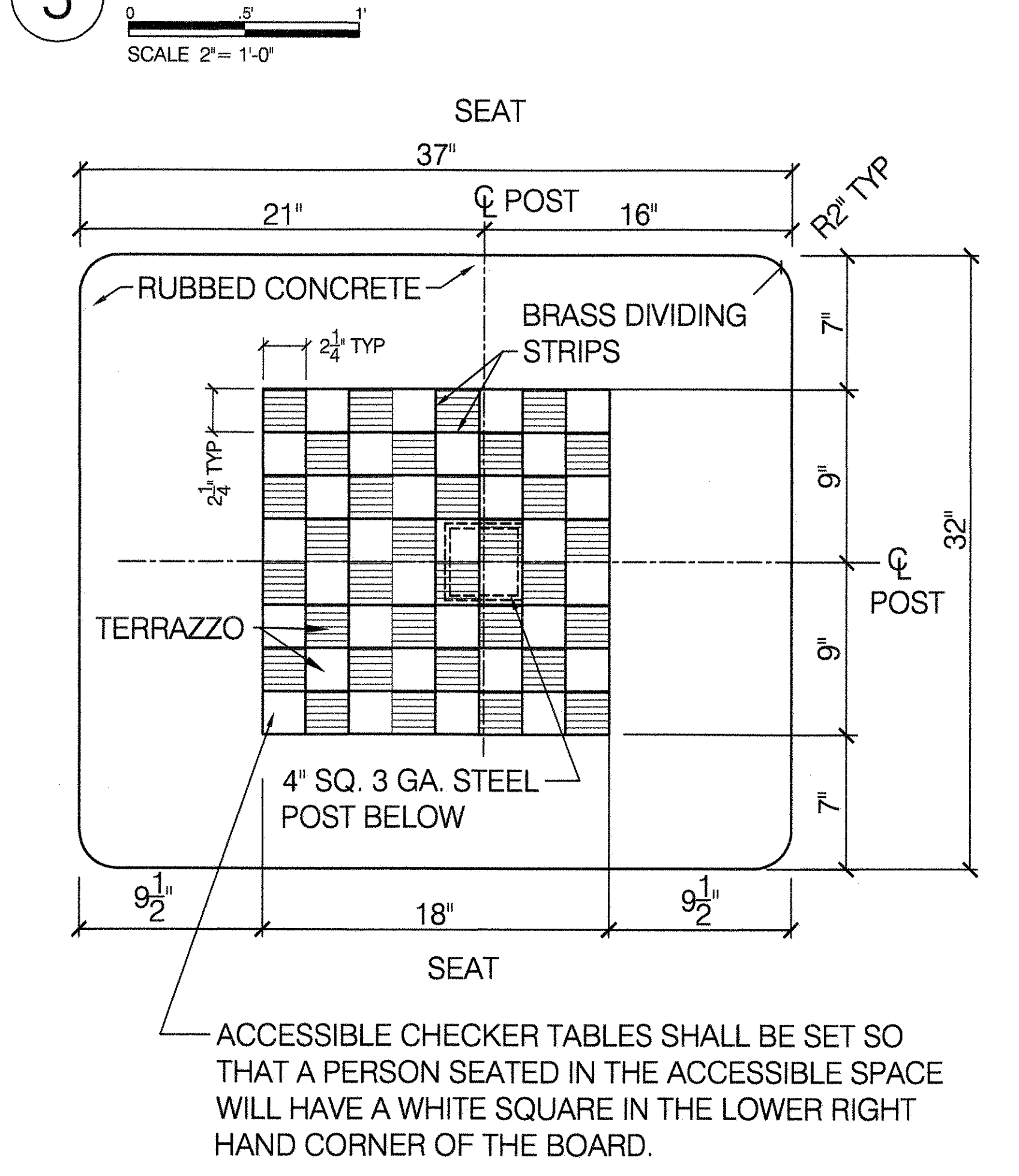
1 CONCRETE AND STEEL GAME TABLE - SECTION



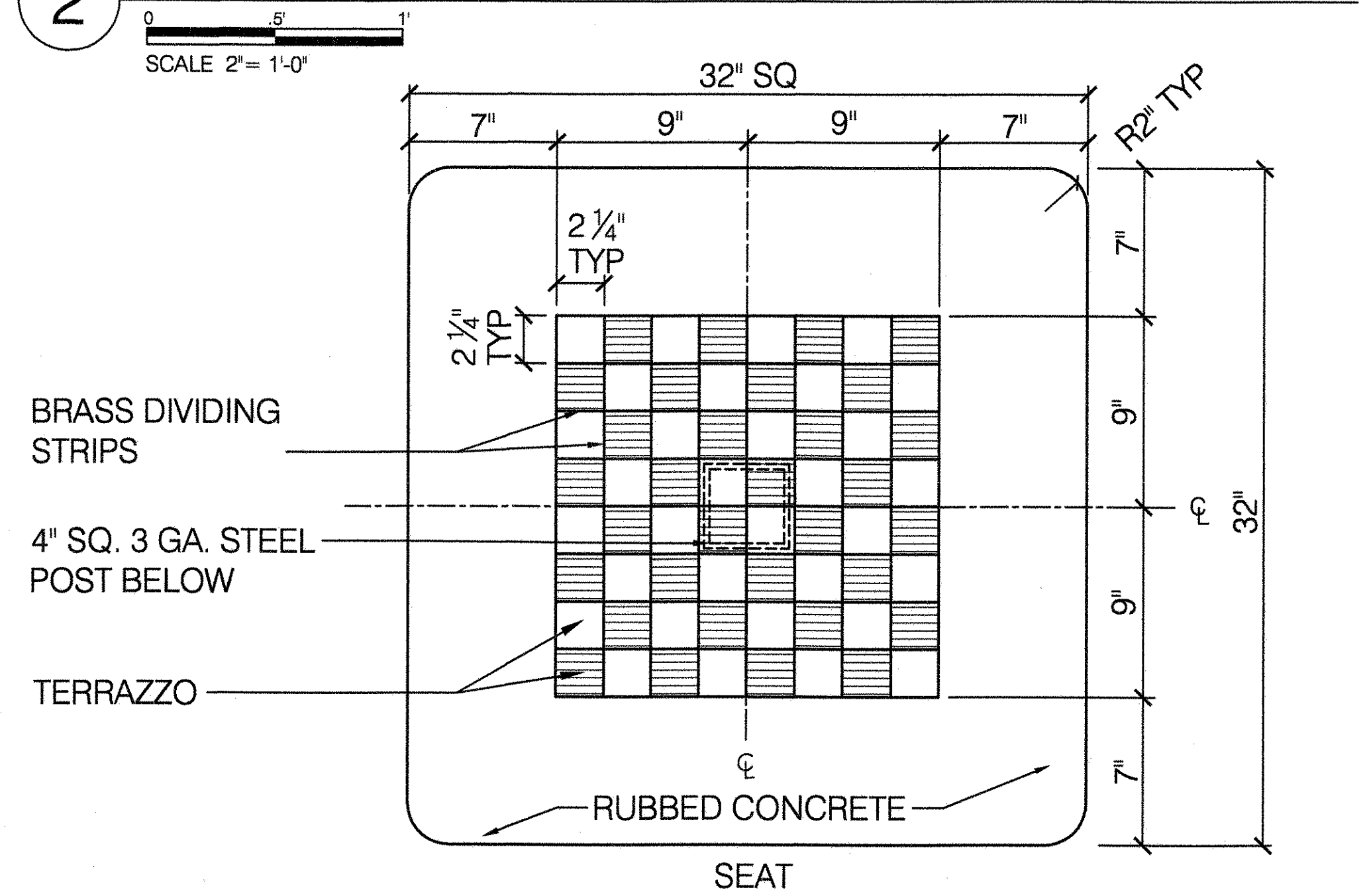
4 ACCESSIBLE CONCRETE AND STEEL TABLE WITH GAME - SECTION



5 CHECKER BOARD PLAN ON ACCESSIBLE TABLE

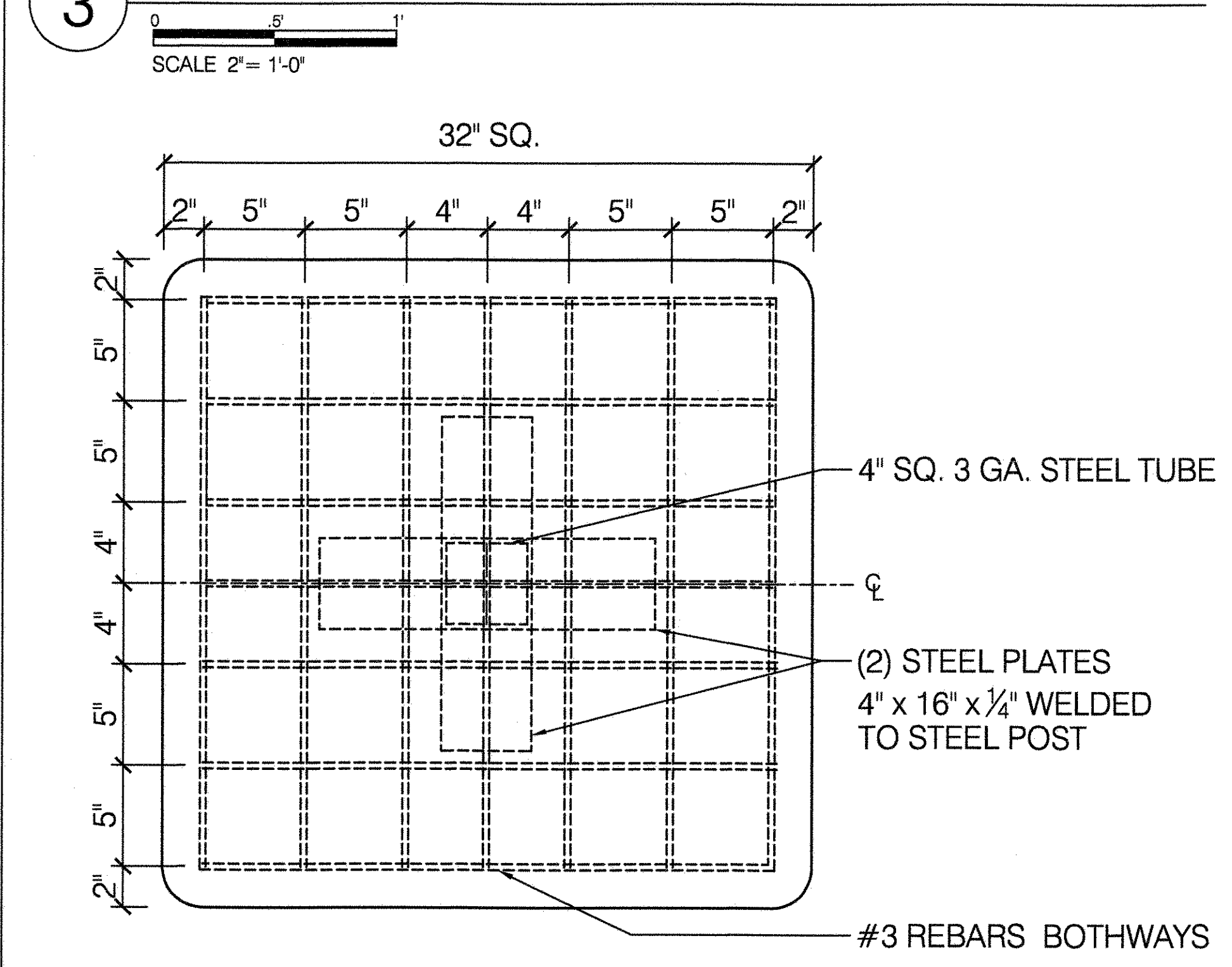


2 CHECKER BOARD PLAN ON GAME TABLE

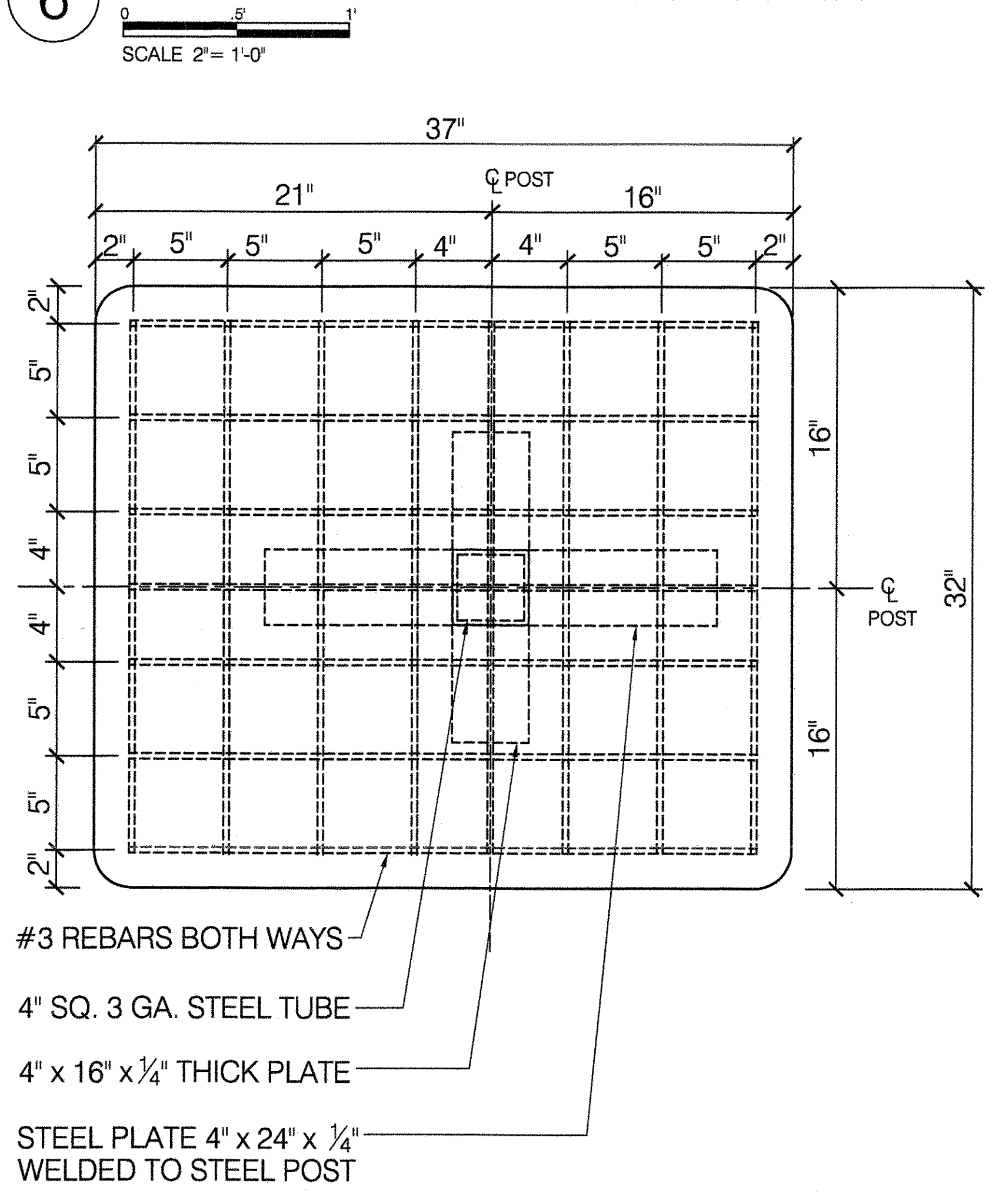


NOTE: CHECKER TABLES SHALL BE SET SO THAT A PERSON SEATED ON THE BENCH WILL HAVE A WHITE SQUARE IN THE LOWER RIGHT HAND CORNER OF THE BOARD.

3 REBAR LAYOUT ON GAME TABLE



6 REBAR LAYOUT ON ACCESSIBLE TABLE



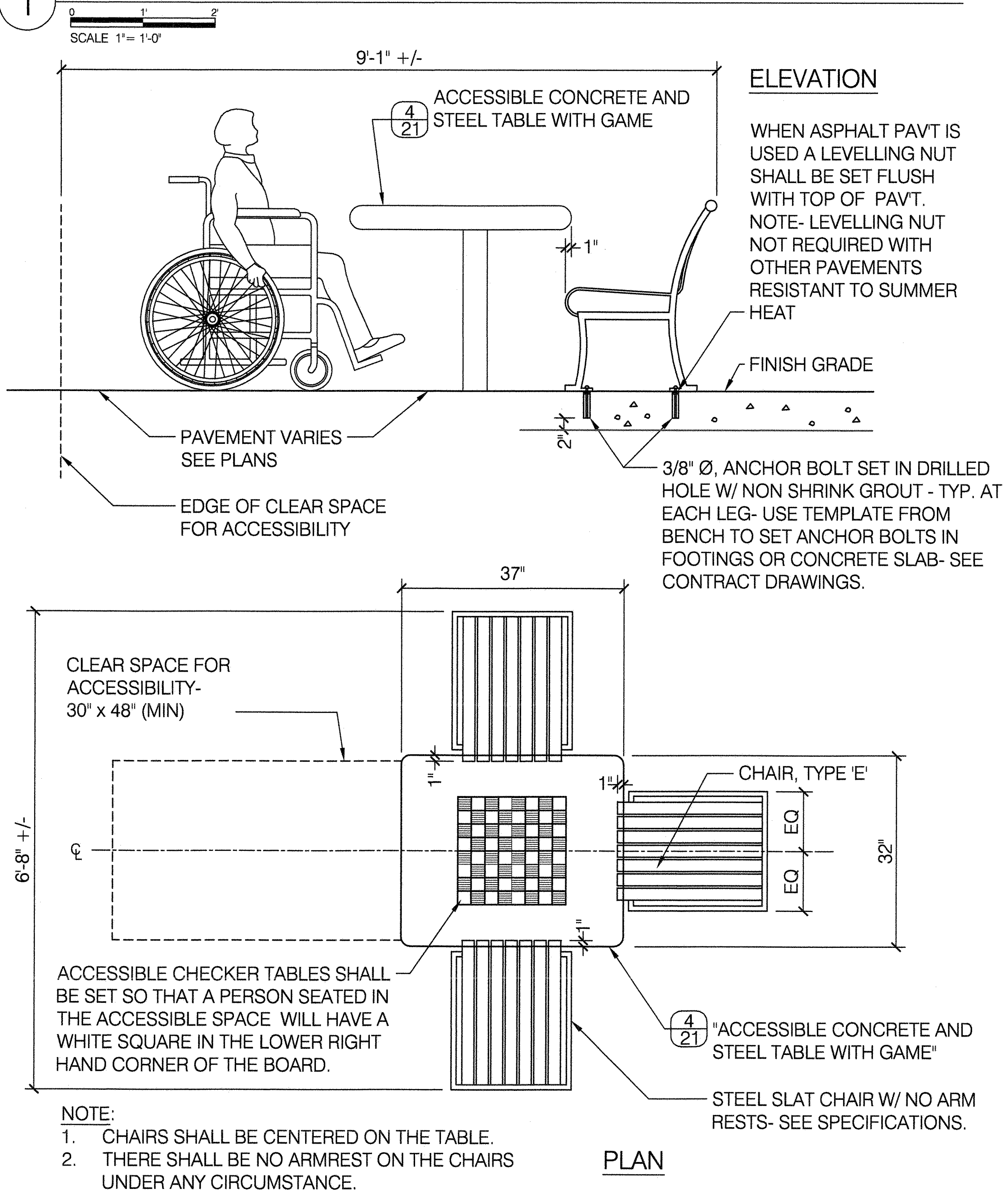
- NOTES:**
- ALL STEEL REINFORCEMENT SHALL CONFORM TO A.S.T.M. A615, GRADE 40.
 - SEE SPECS FOR TERRAZZO COLORING.
 - FOR LAYOUT RELATIONSHIPS BETWEEN GAME TABLE AND BENCH/CHAIRS, SEE STANDARD DETAIL SHEET #22 "GAME TABLE LAYOUT & BIKE RACK"

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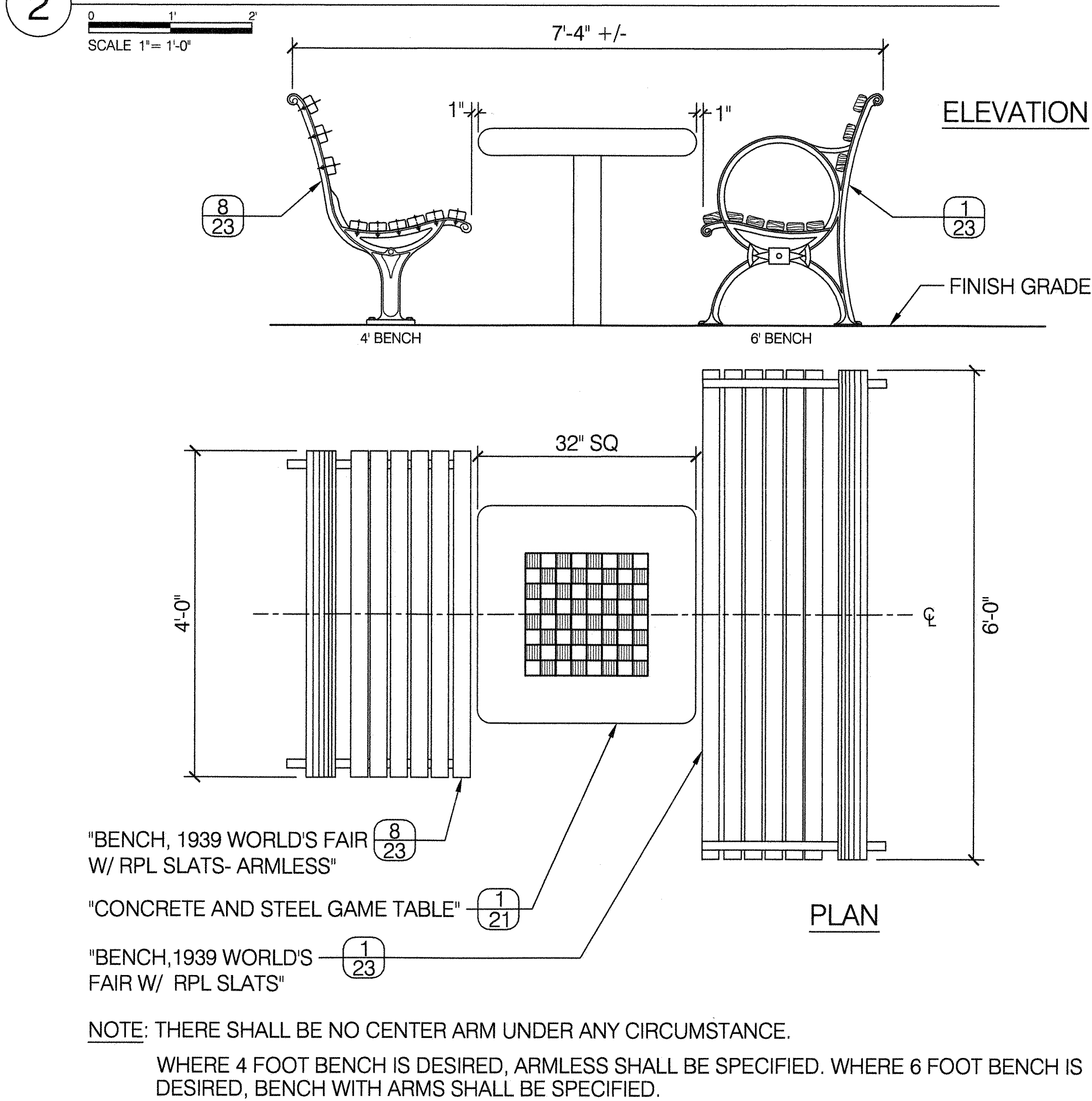
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DRAWING TITLE
CONCRETE AND STEEL GAME TABLE

	DRAWN BY STAFF	CHECKED BY K. MOULTHROP
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	APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 21
	DATE 09-01-2020	SCALE AS SHOWN

1 ACCESSIBLE TABLE TO CHAIR RELATIONSHIP



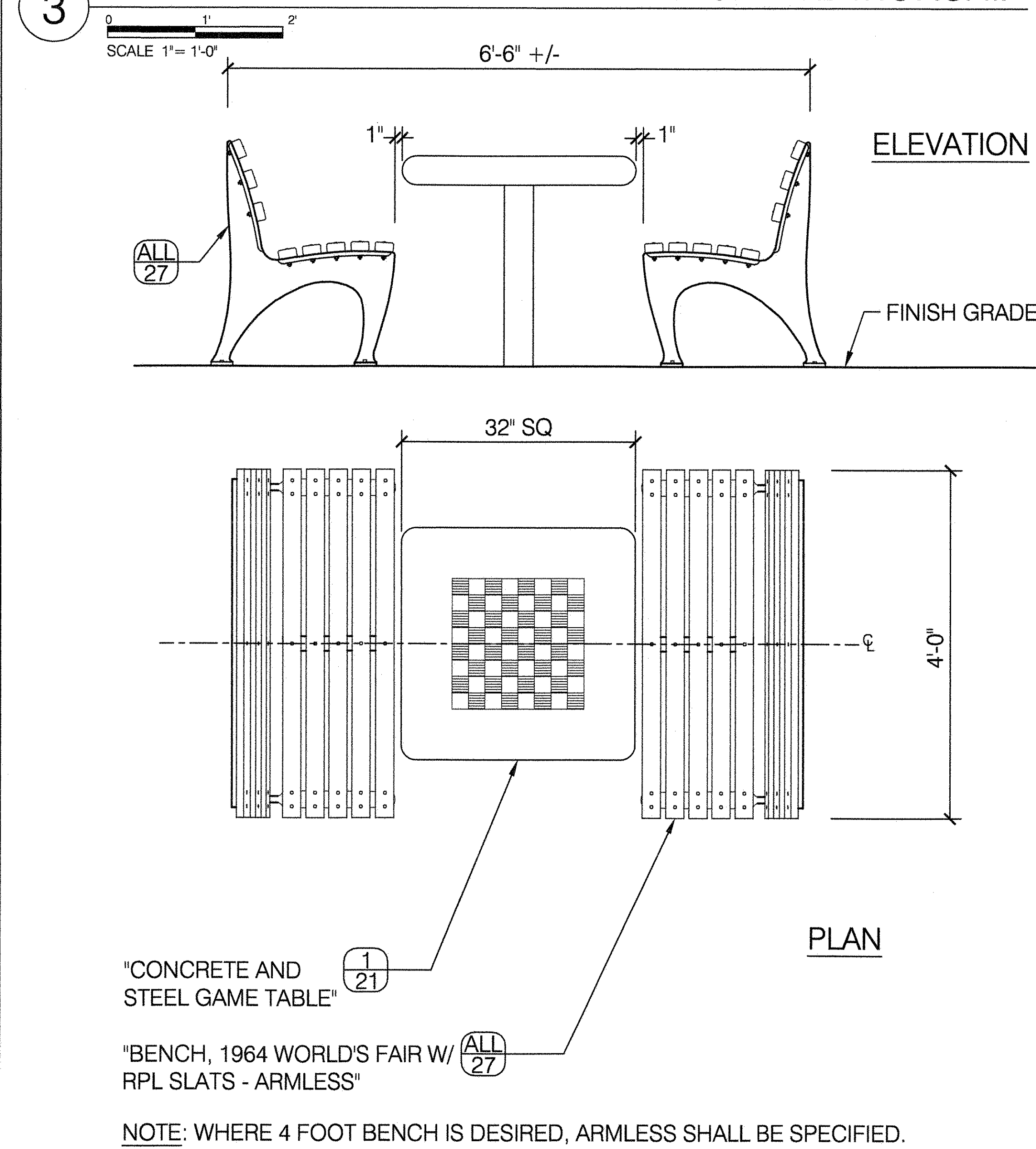
2 TABLE TO 1939 WORLD'S FAIR BENCH RELATIONSHIP



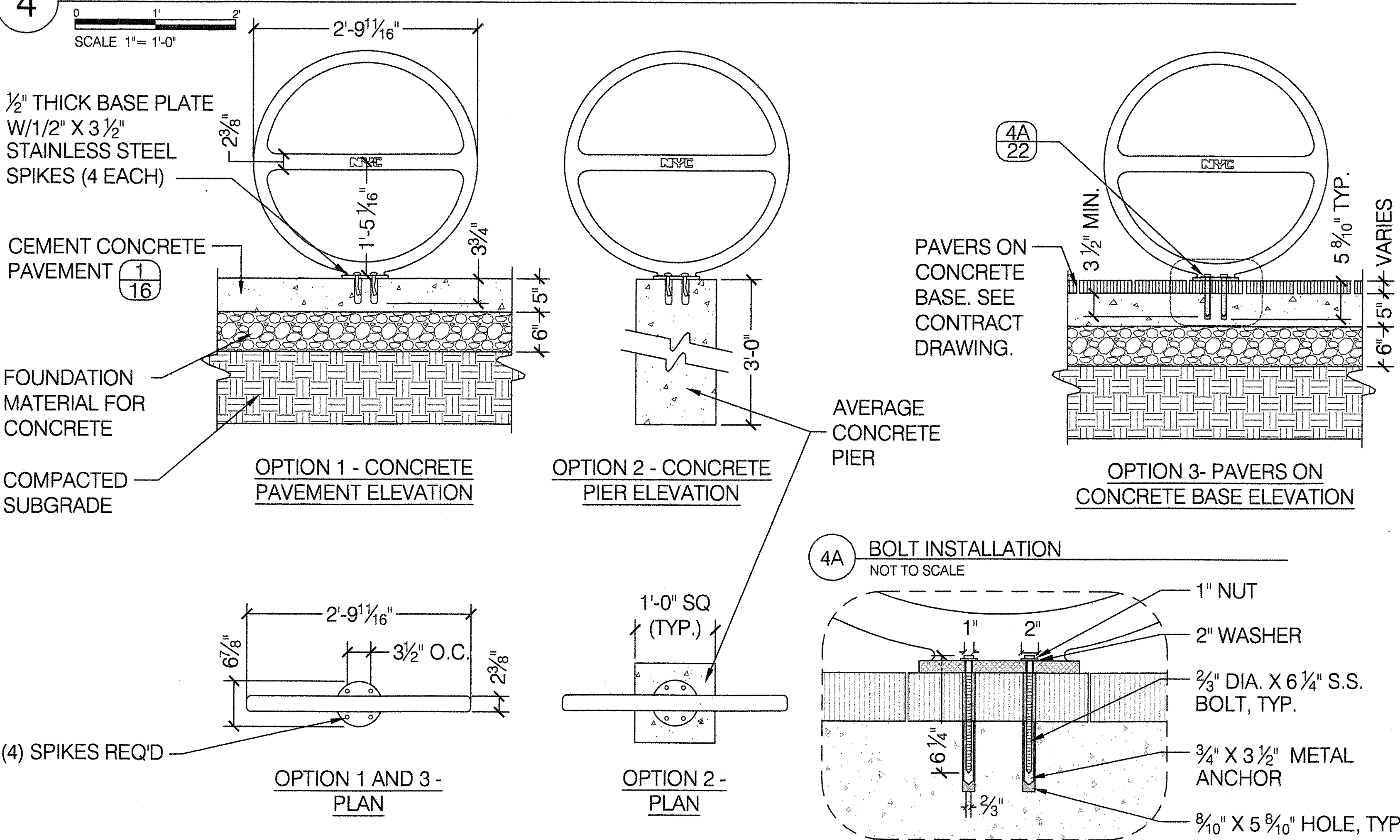
GAME TABLE NOTES:

- ALL STEEL REINFORCEMENT SHALL CONFORM TO A.S.T.M. A615, GRADE 40.
- SEE SPECS FOR TERRAZZO COLORING.
- FOR CHECKER BOARD PLAN, SEE DPR STANDARD DETAIL SHEET #21 "CONCRETE AND STEEL GAME TABLE".
- CHECKER TABLES SHALL BE SET SO THAT A PERSON SEATED ON THE BENCH OR CHAIR WILL HAVE A WHITE SQUARE IN THE LOWER RIGHT HAND CORNER OF THE BOARD.

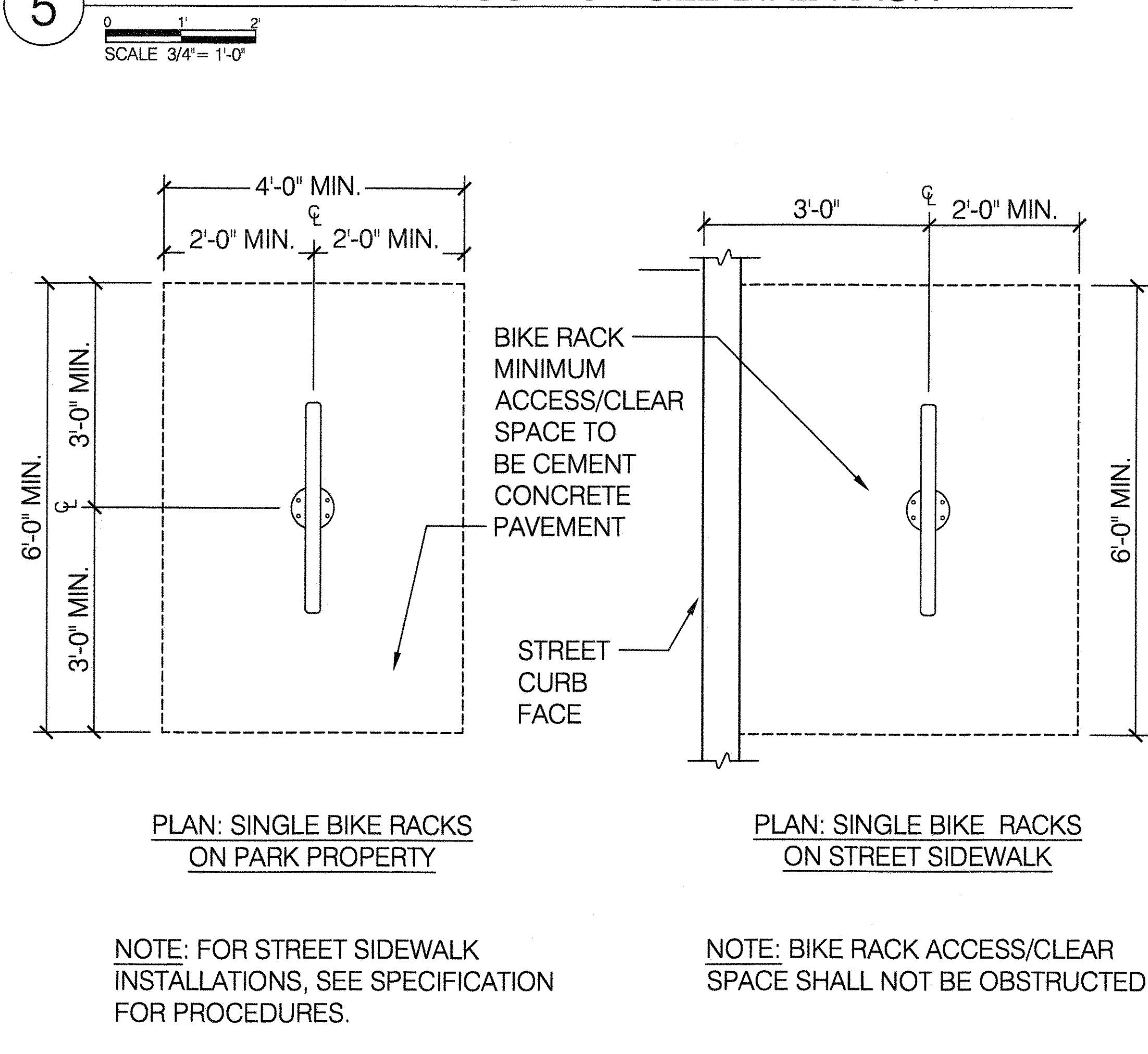
3 TABLE TO 1964 WORLD'S FAIR BENCH RELATIONSHIP



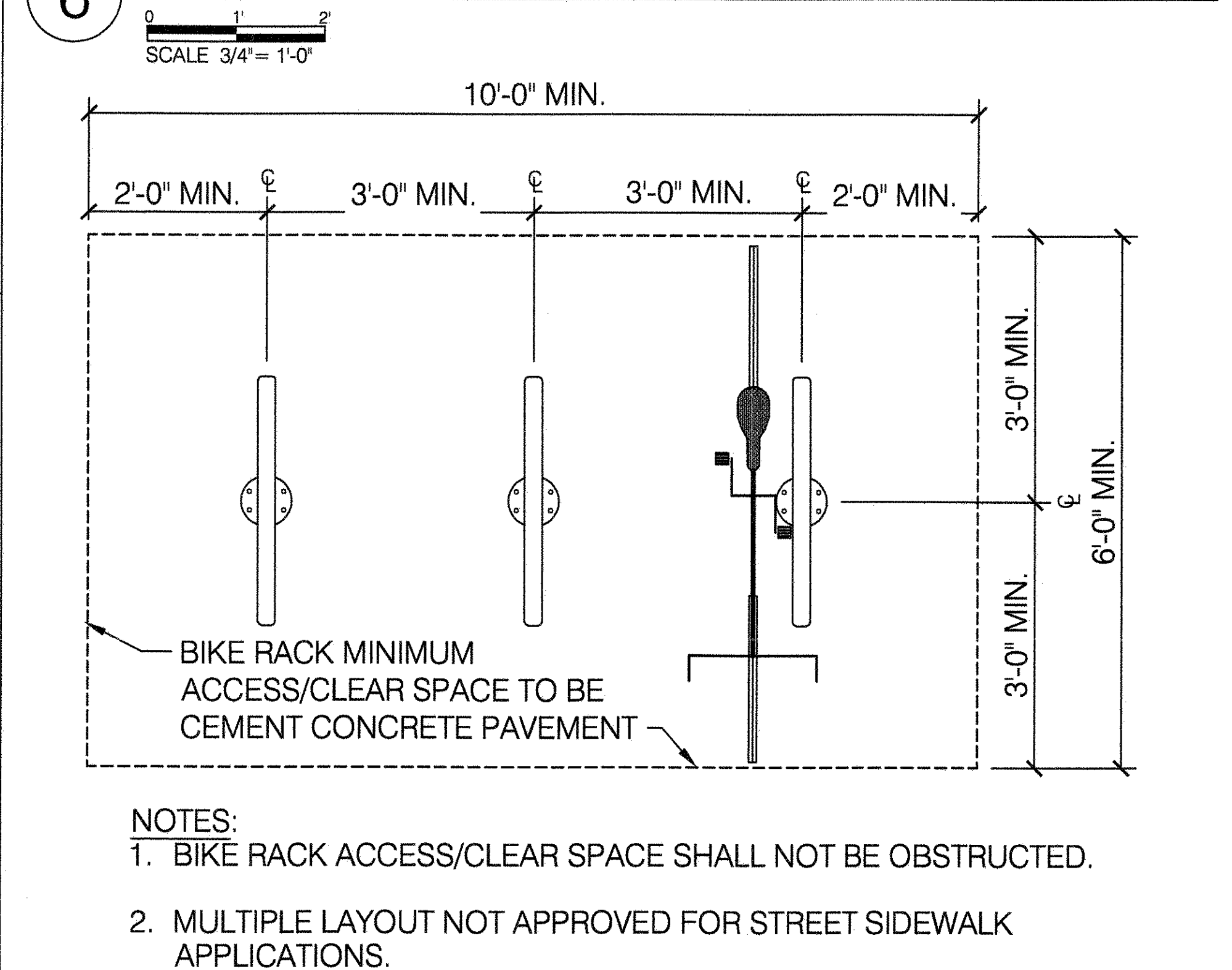
4 BICYCLE RACK - "HOOP"



5 BICYCLE RACK LAYOUT- SINGLE BIKE RACK



6 BICYCLE RACK LAYOUT- MULTIPLE BIKE RACKS

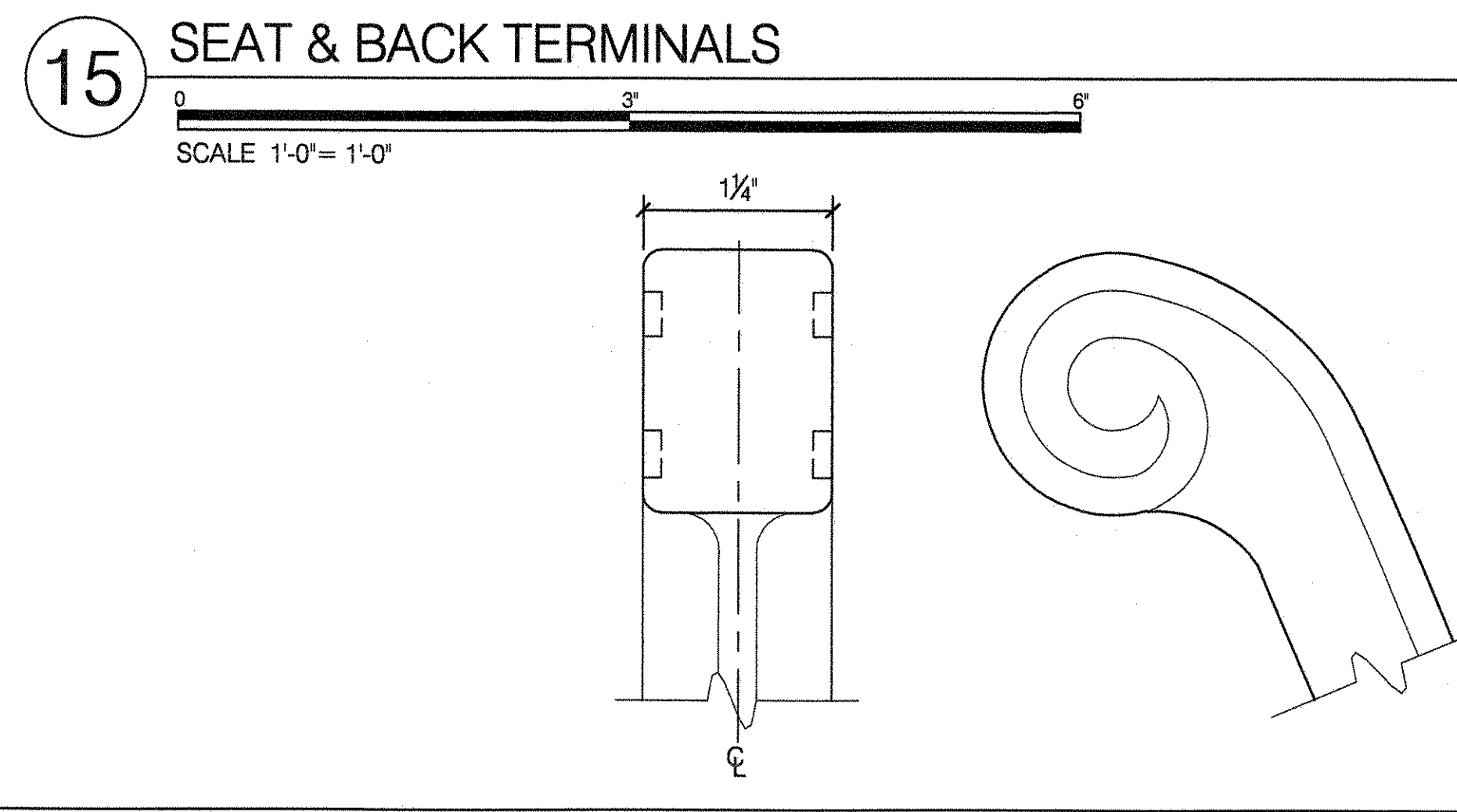
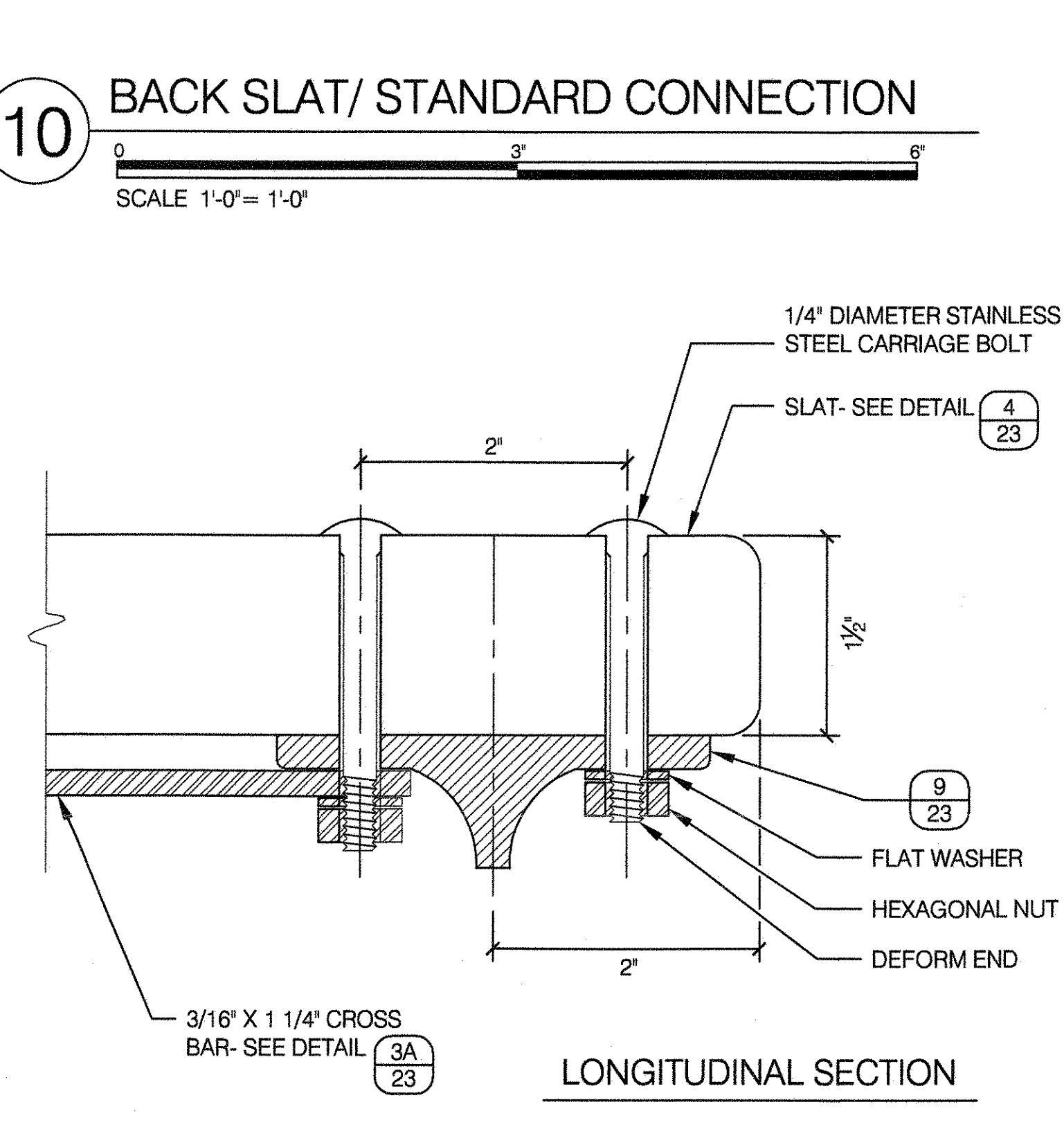
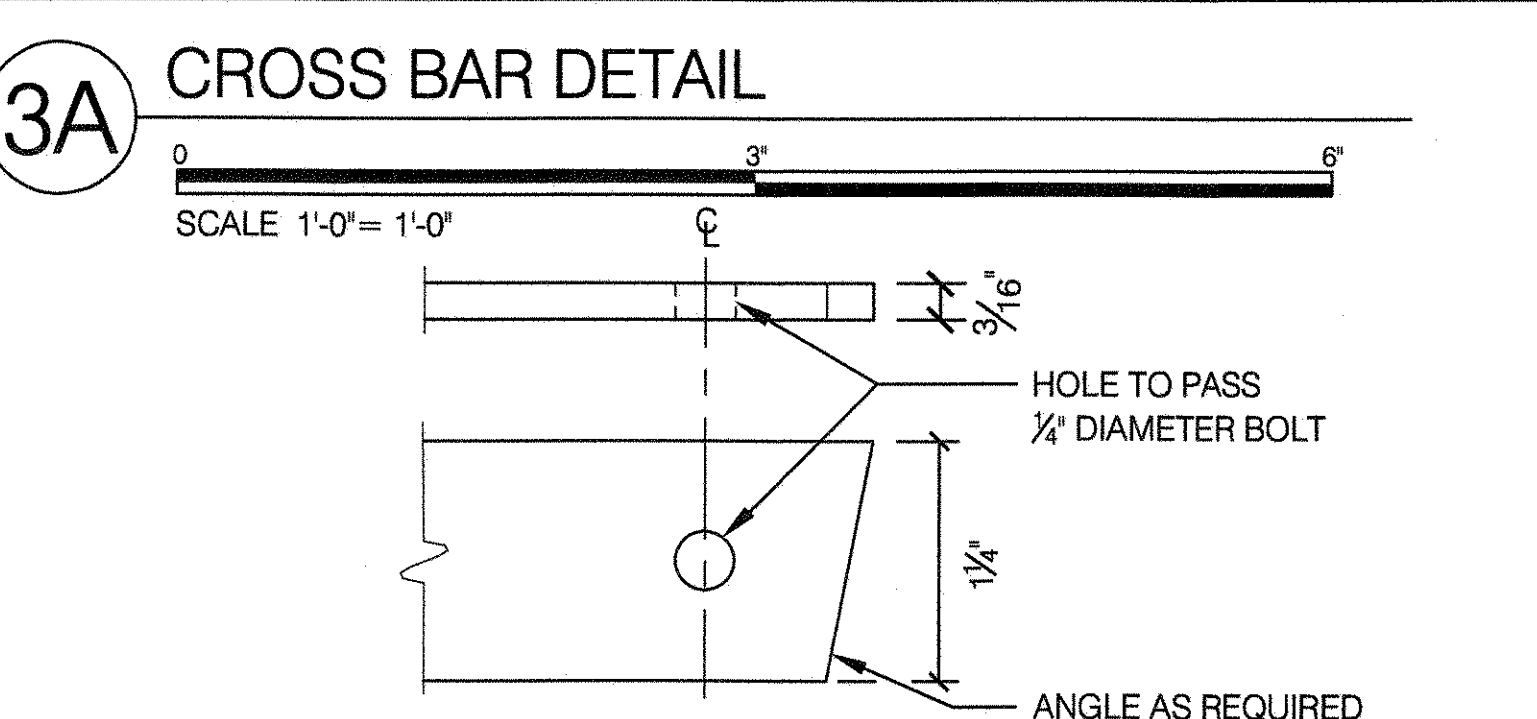
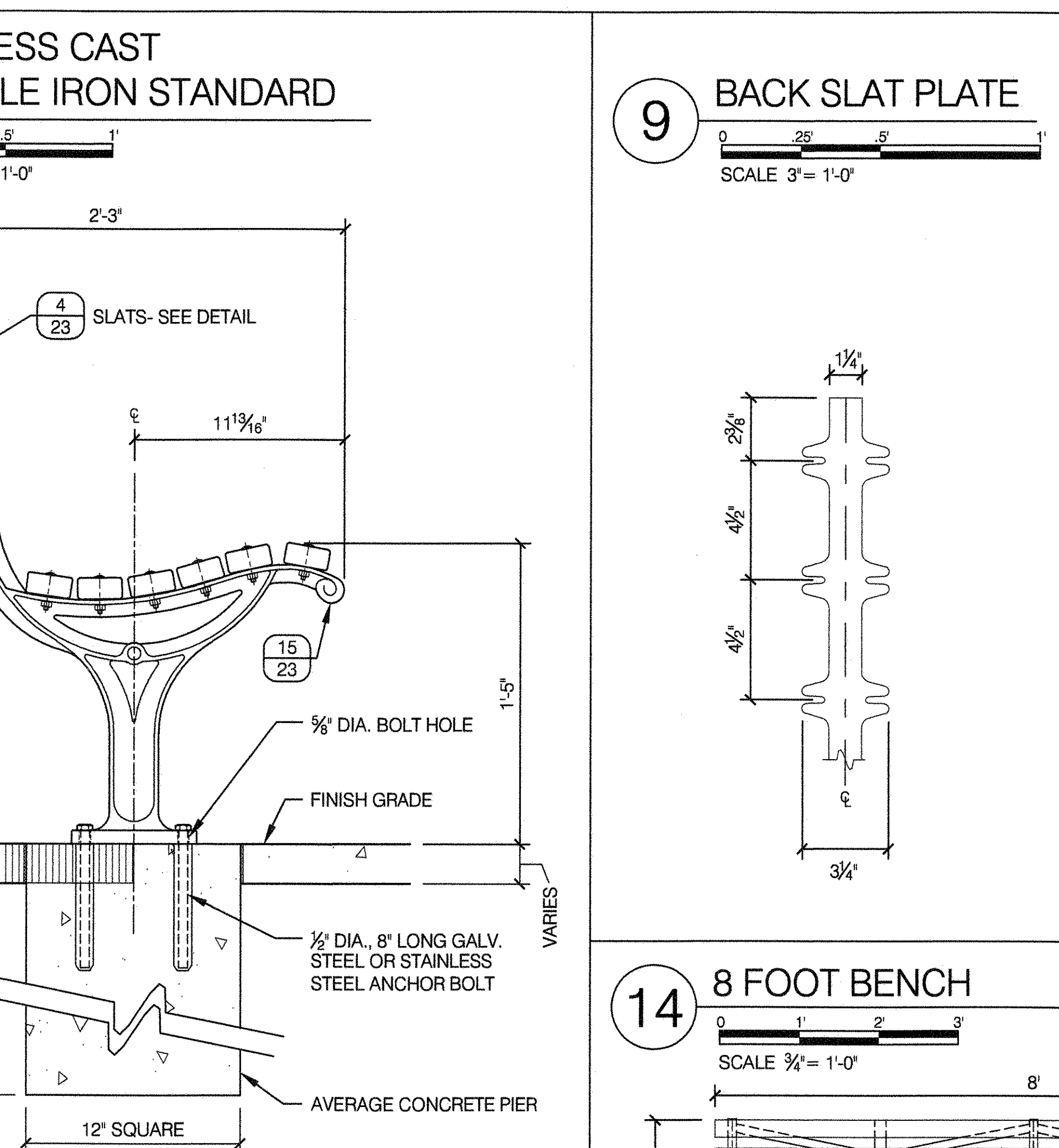
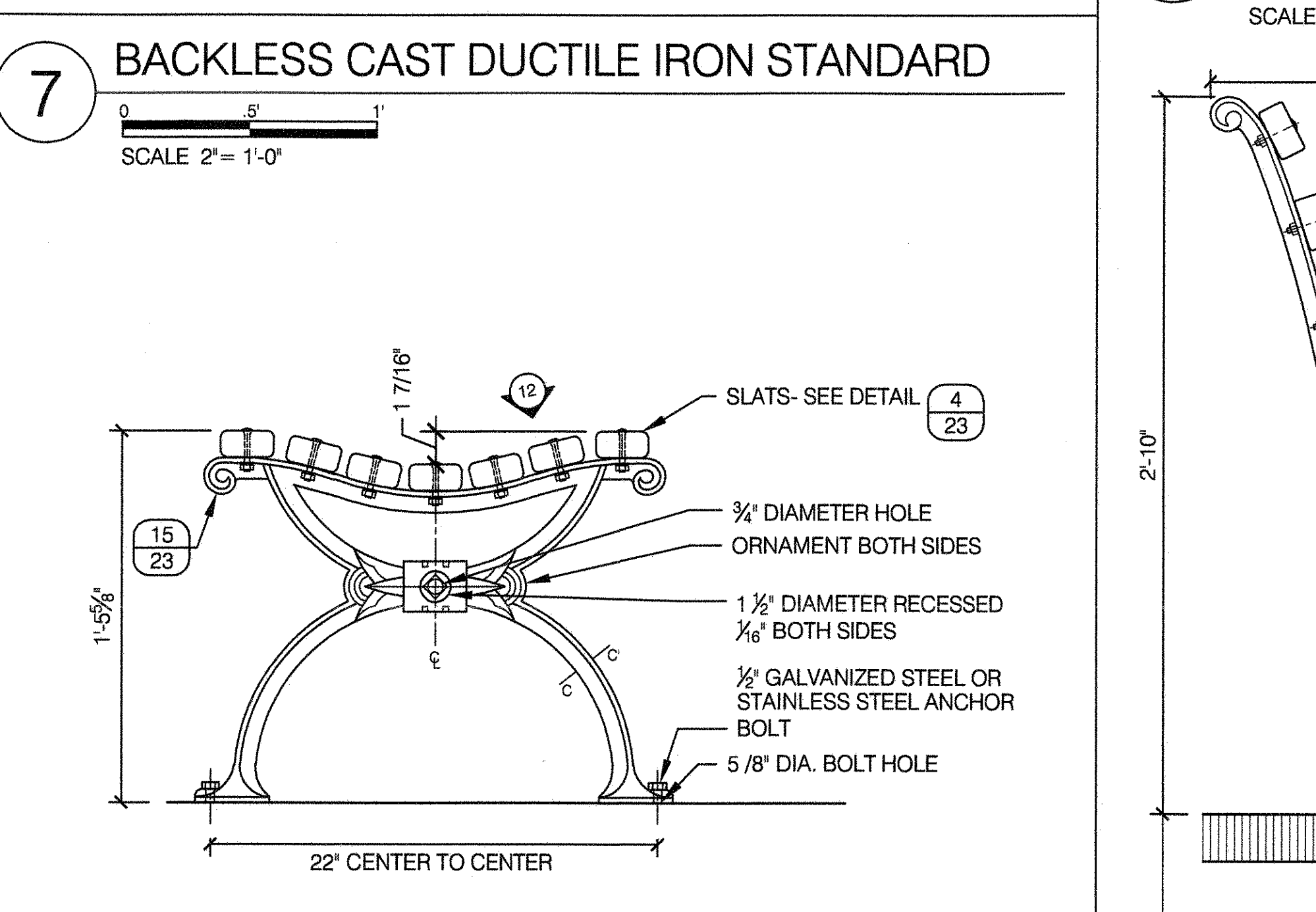
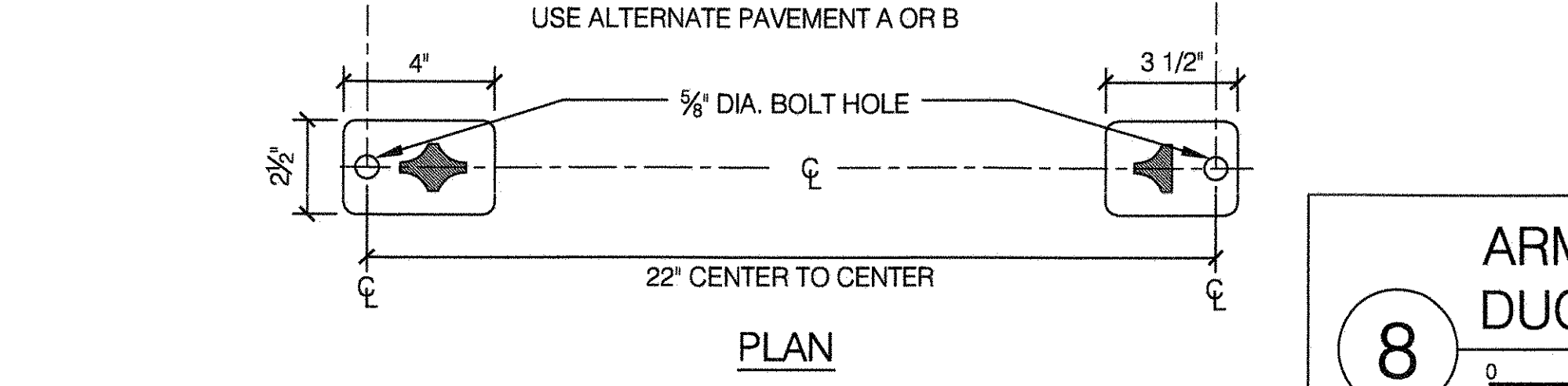
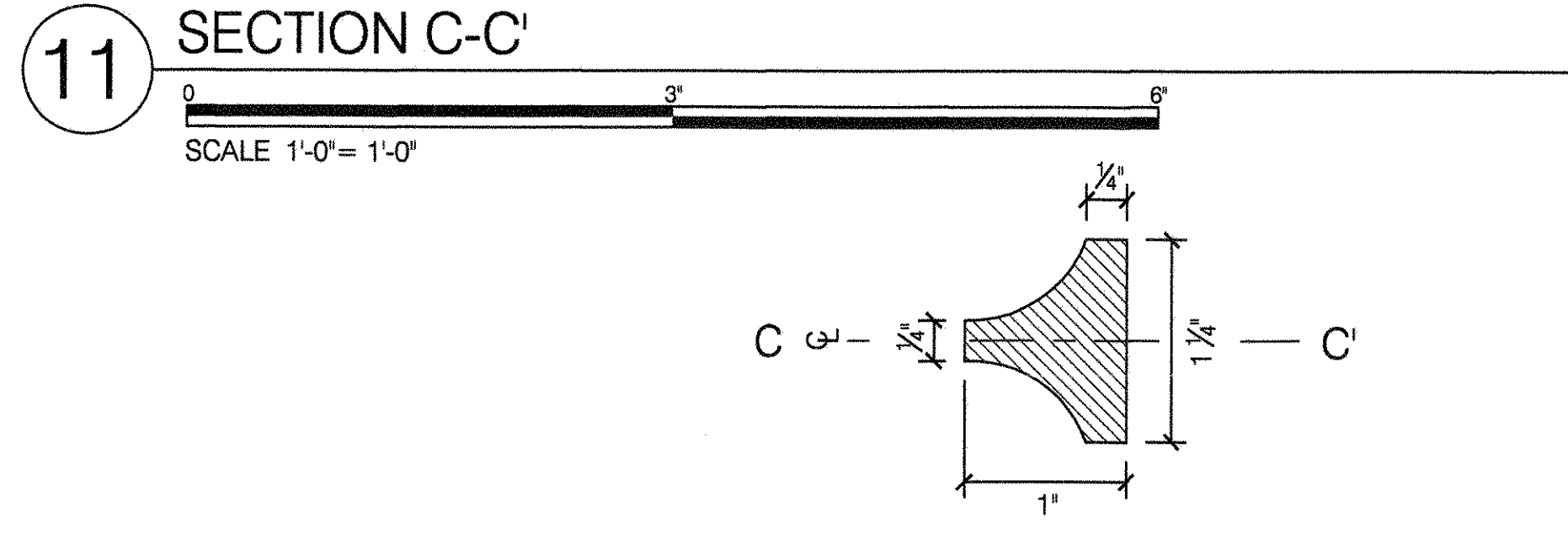
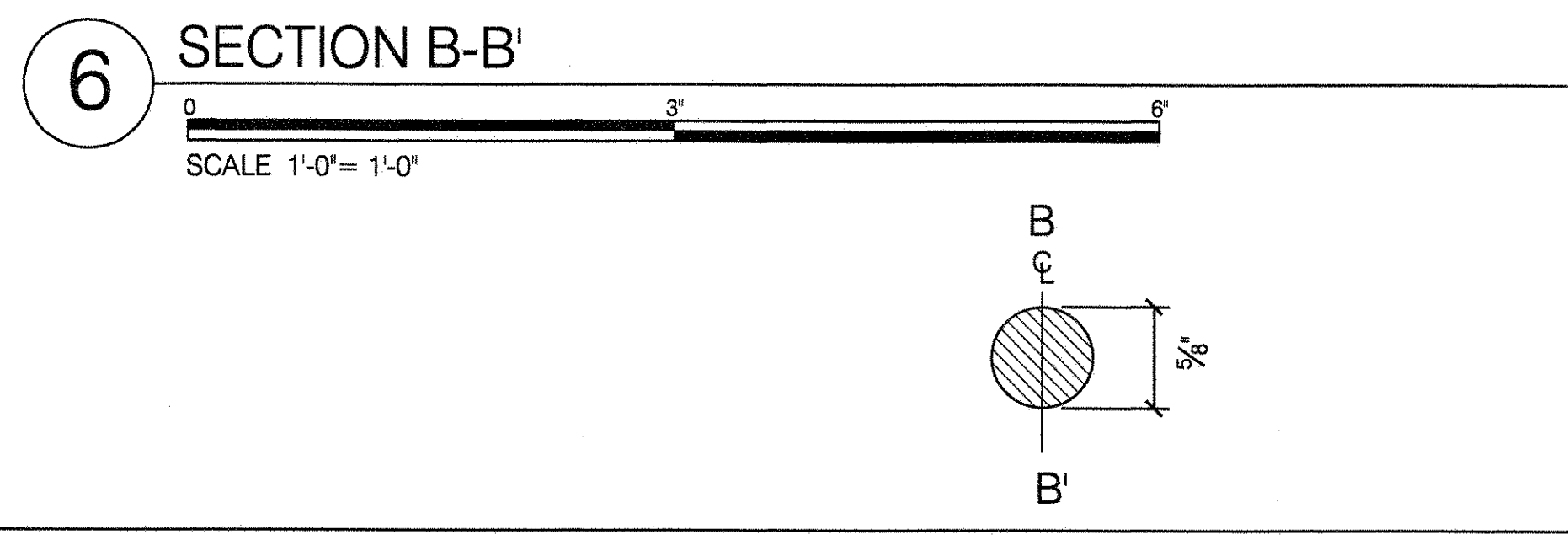
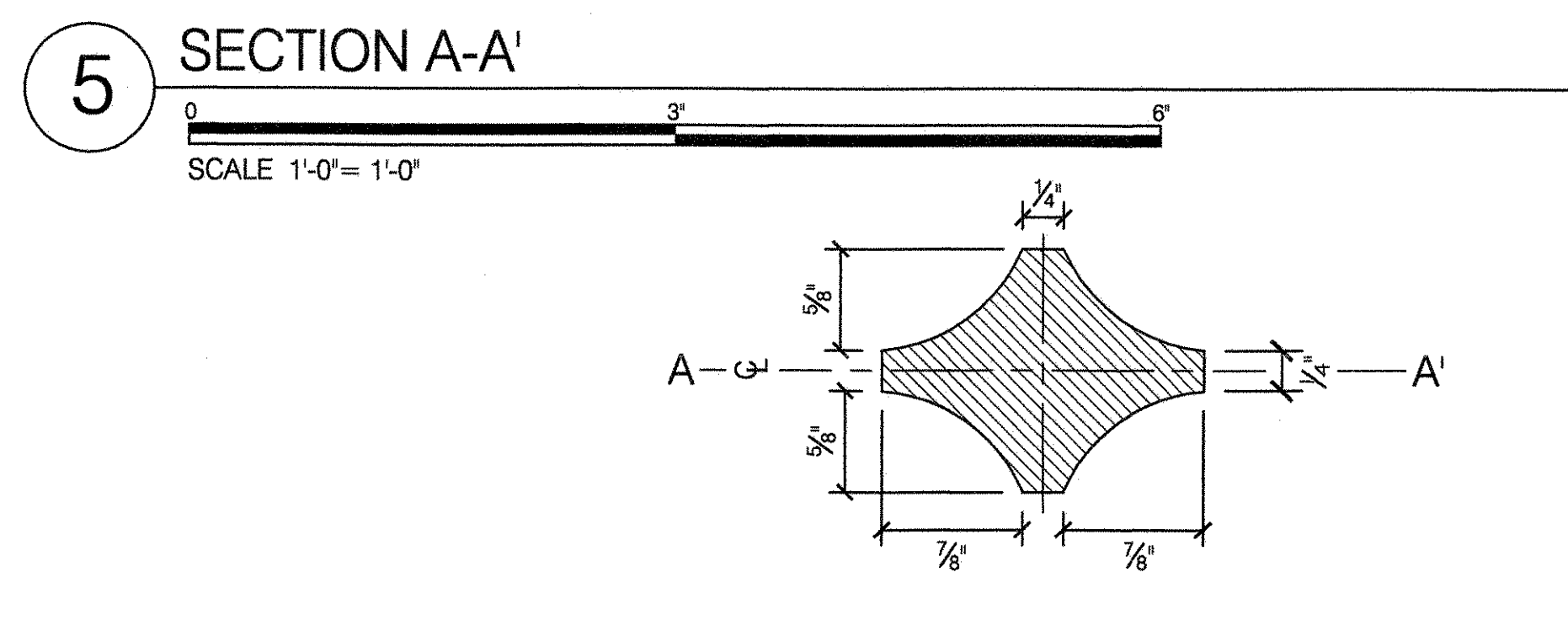
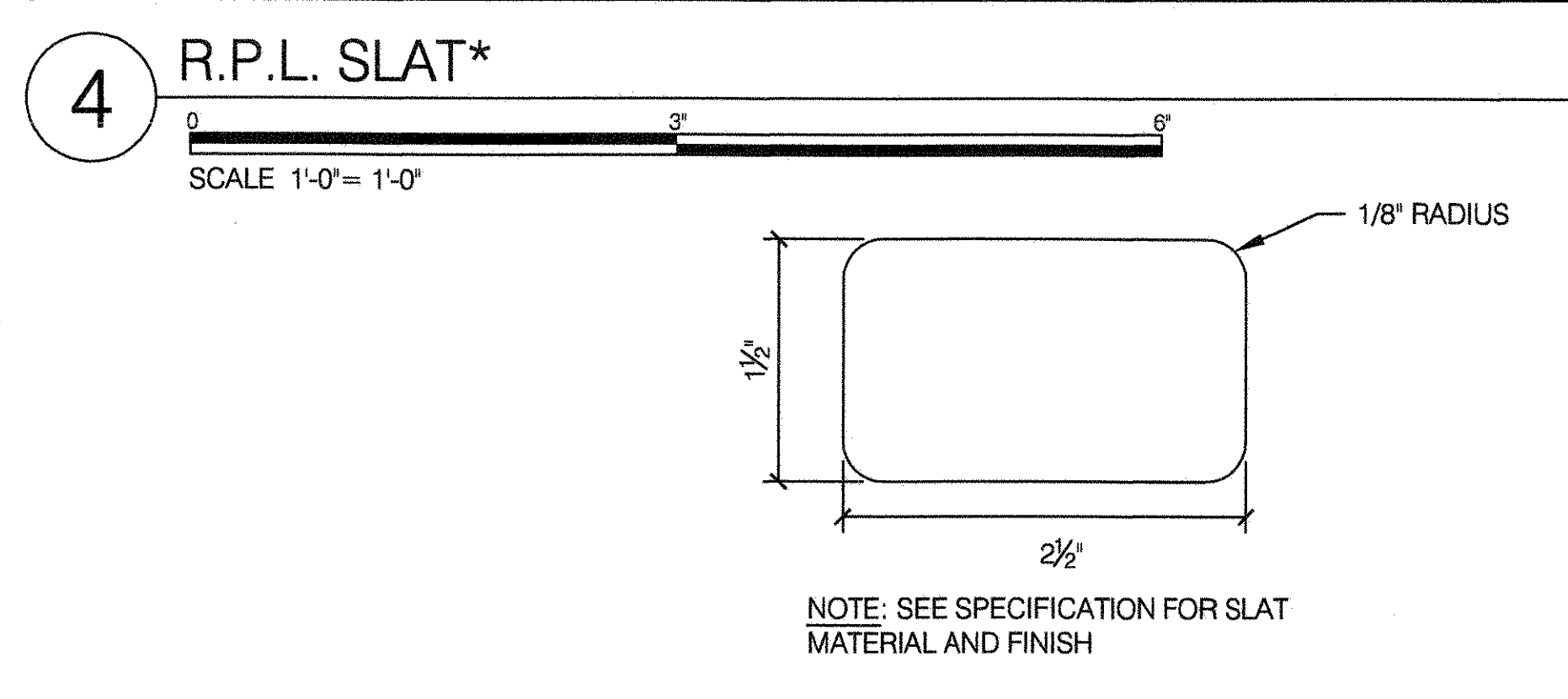
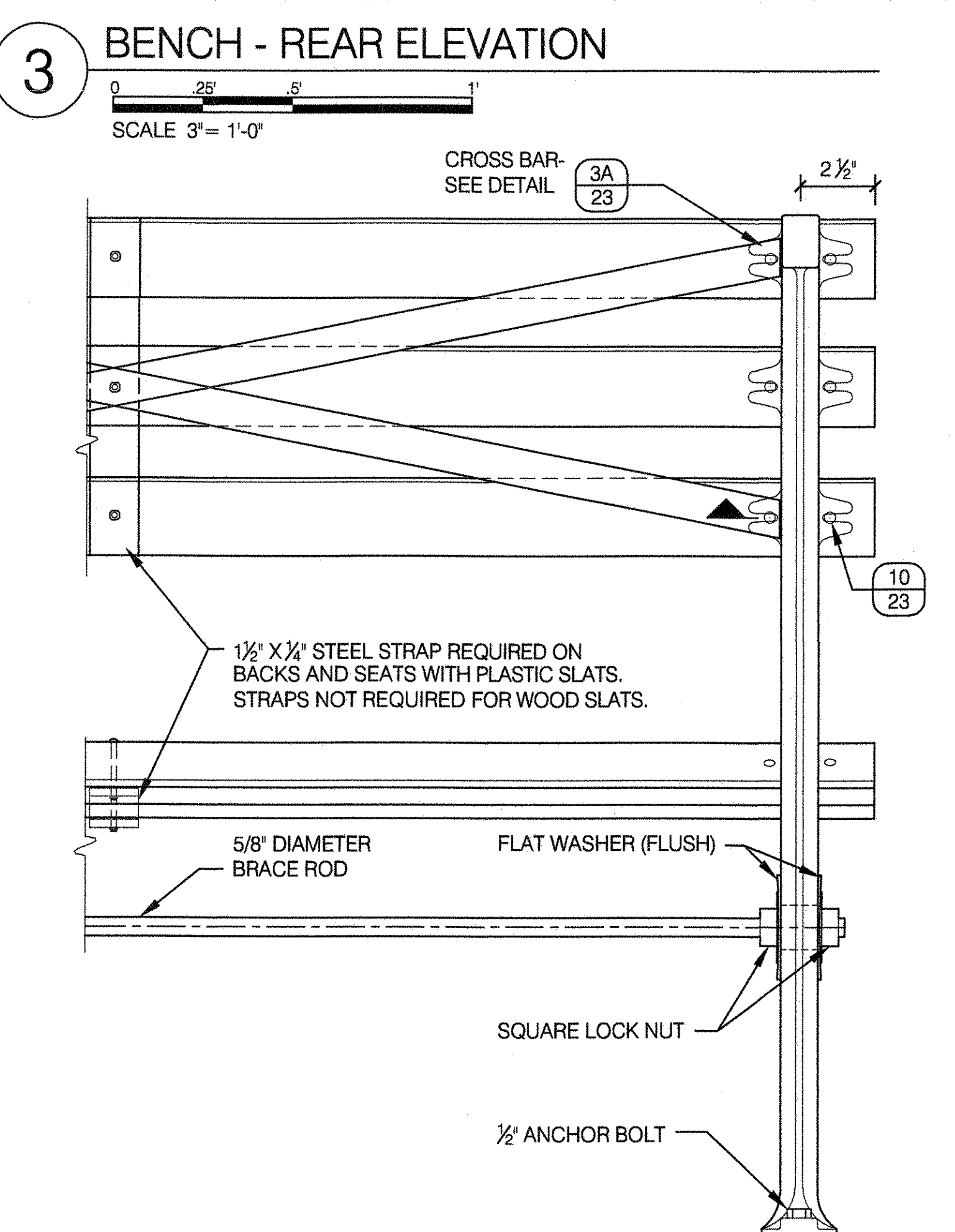
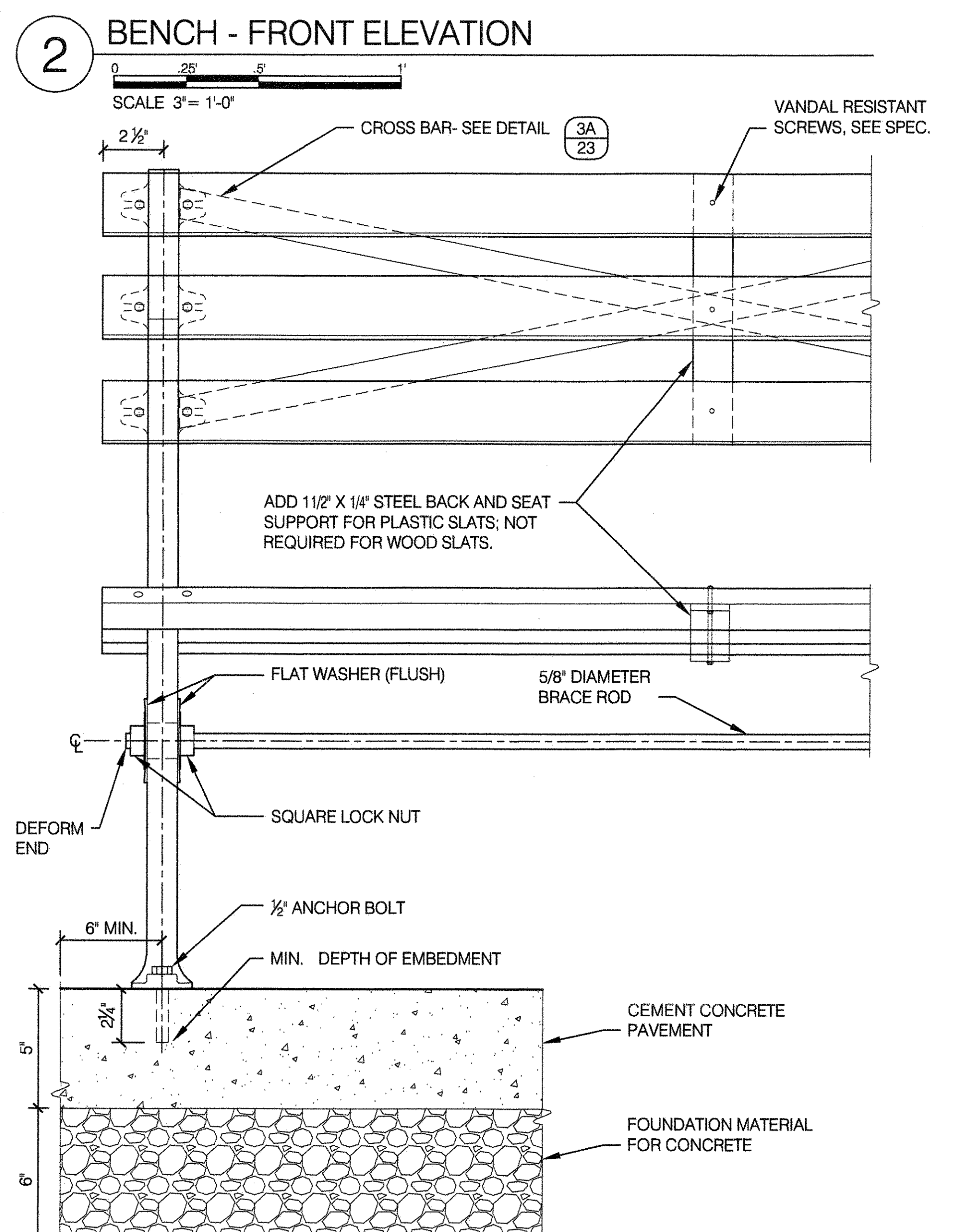
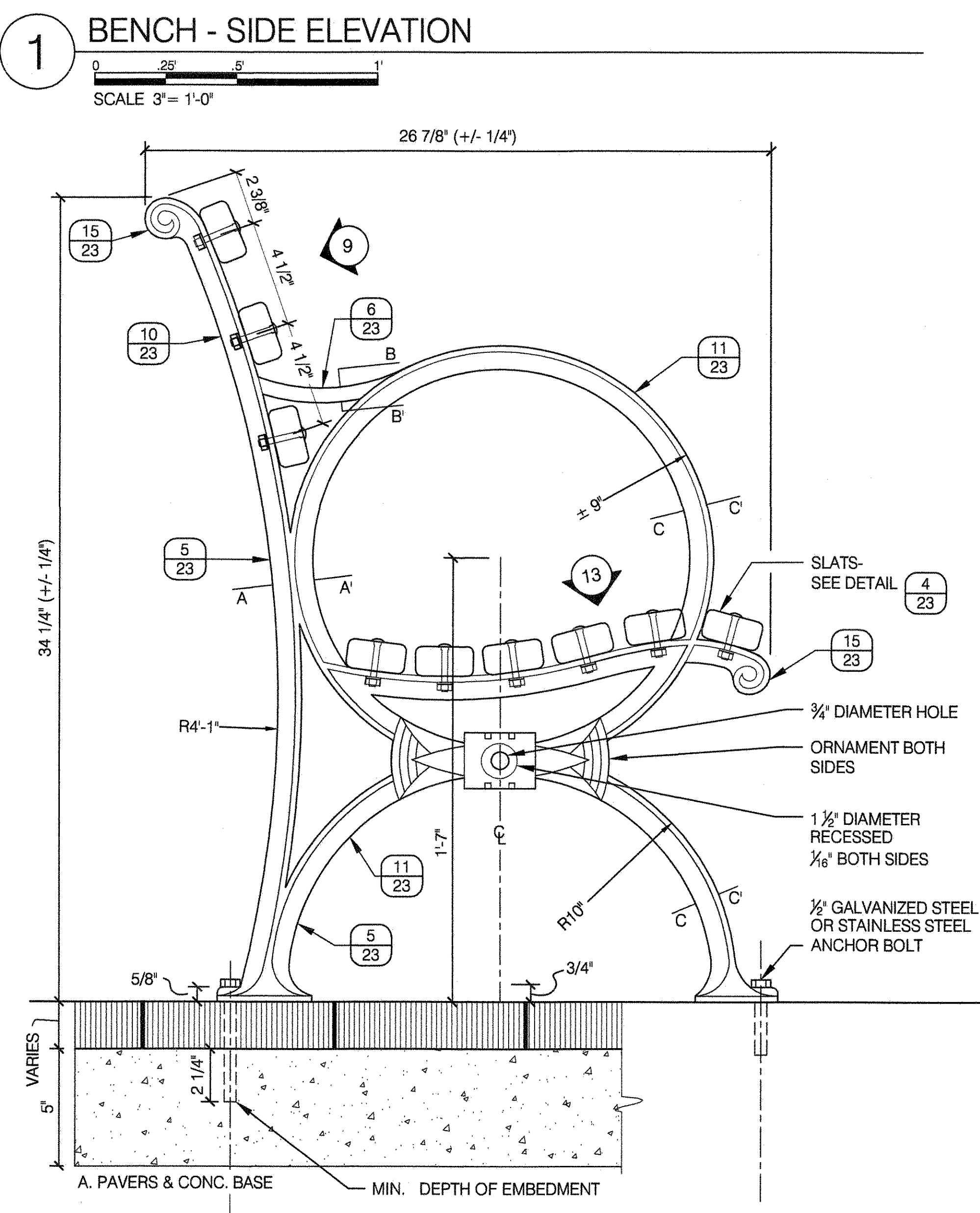


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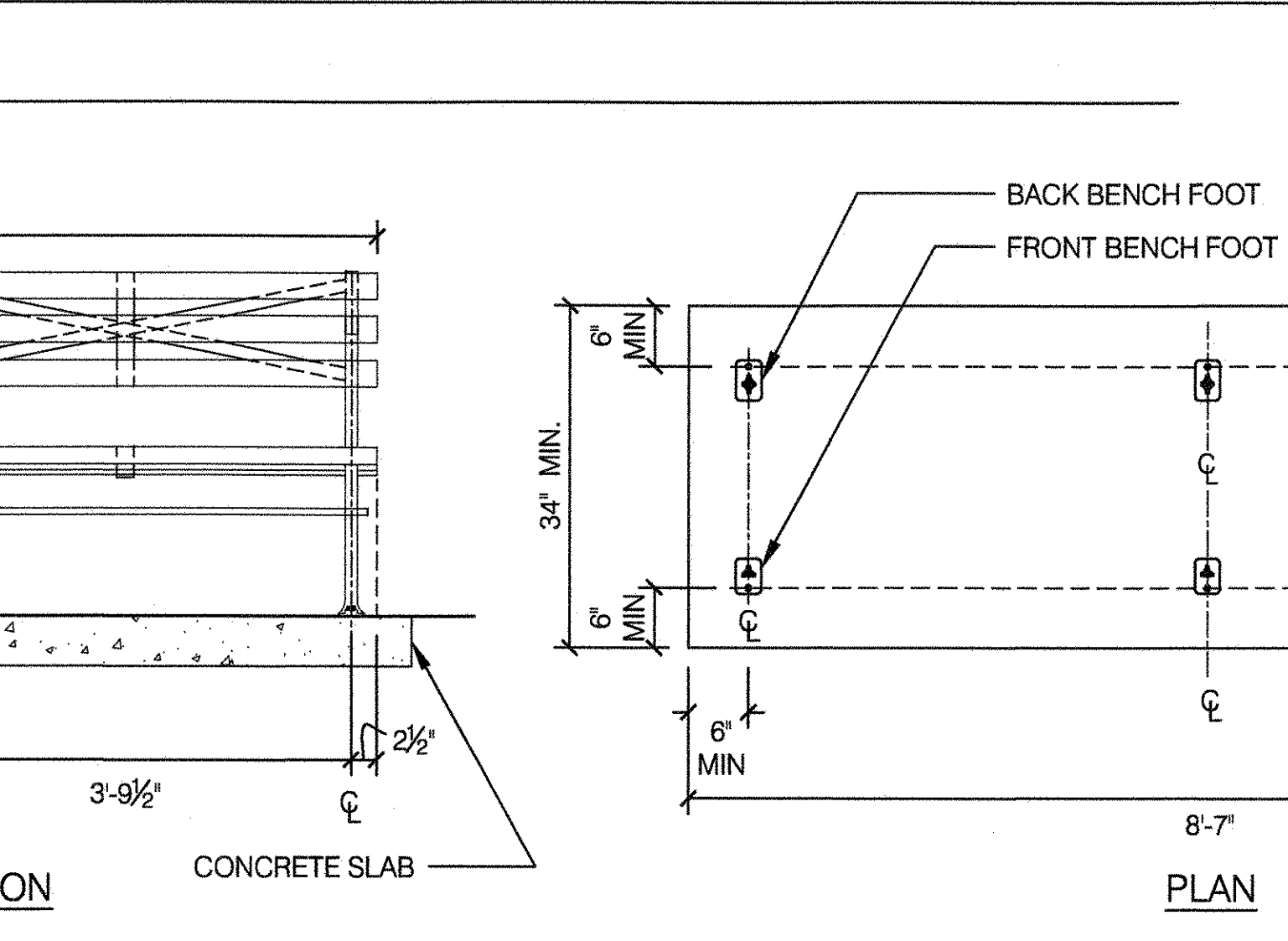
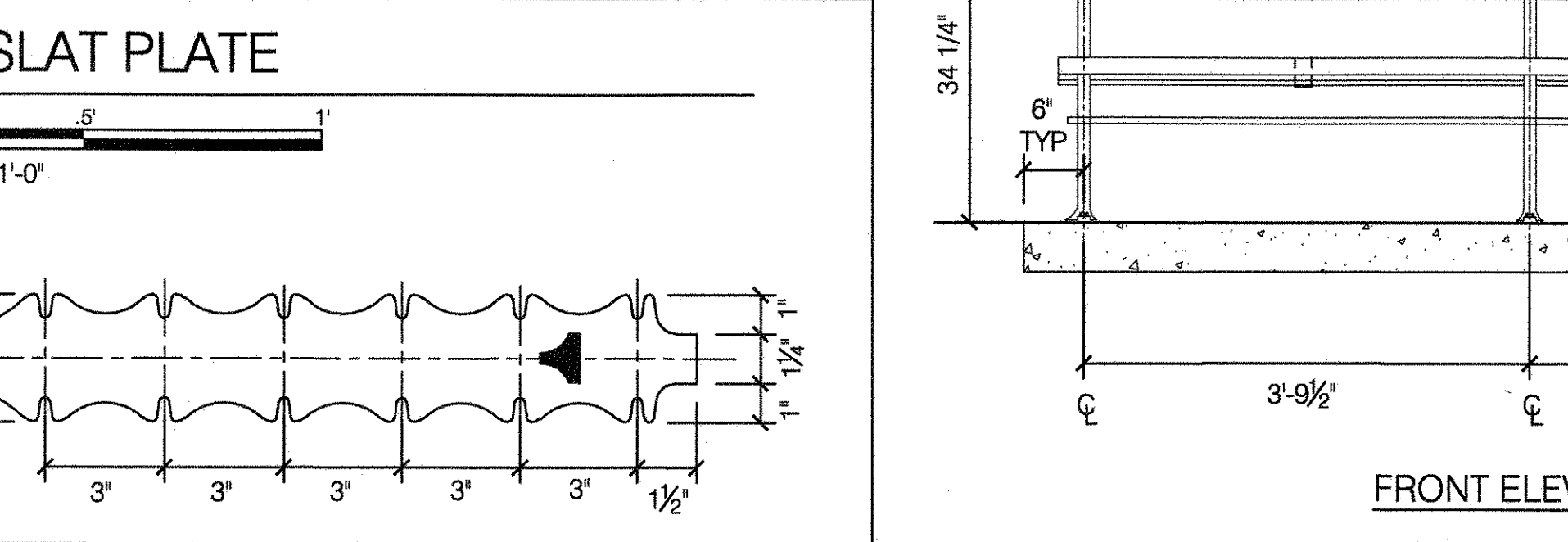
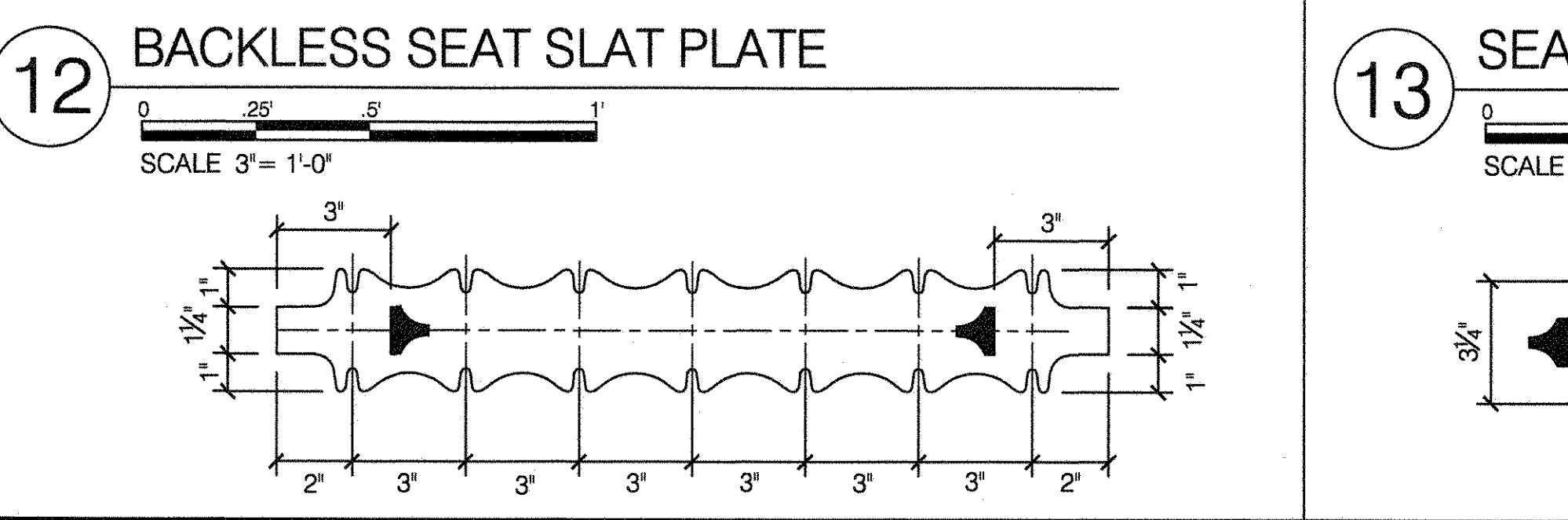
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 DRAWING TITLE
CONCRETE GAME TABLE LAYOUT AND BICYCLE RACK

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DATE 09-01-2020	SCALE AS SHOWN



16 SCHEDULE FOR REQUIRED STANDARDS (LEGS)

BENCH LENGTH	NO. OF STANDARDS (LEGS)
4'-0"	2
6'-0"	2
8'-0"	3



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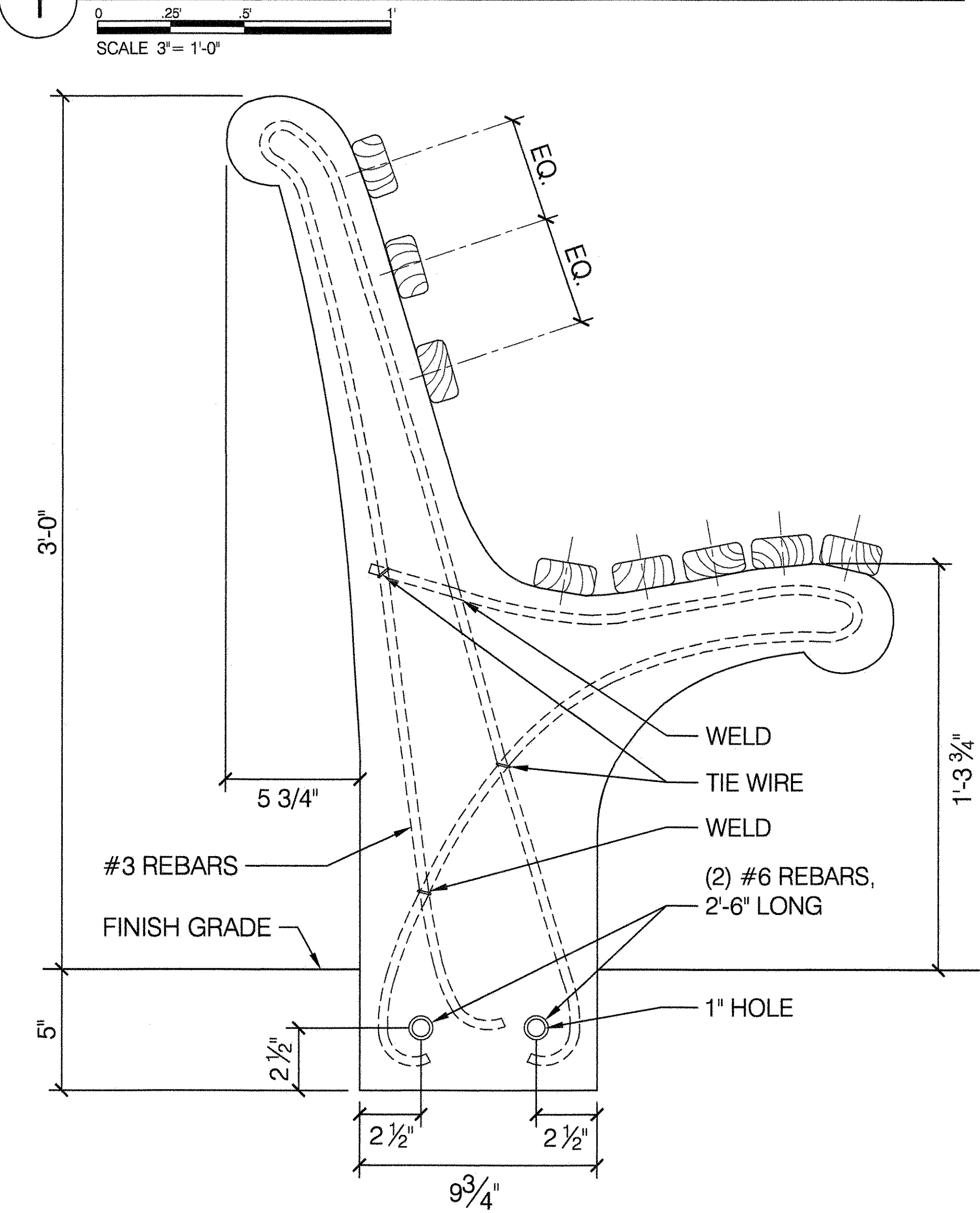
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 DRAWING TITLE
BENCH, 1939 WORLD'S FAIR

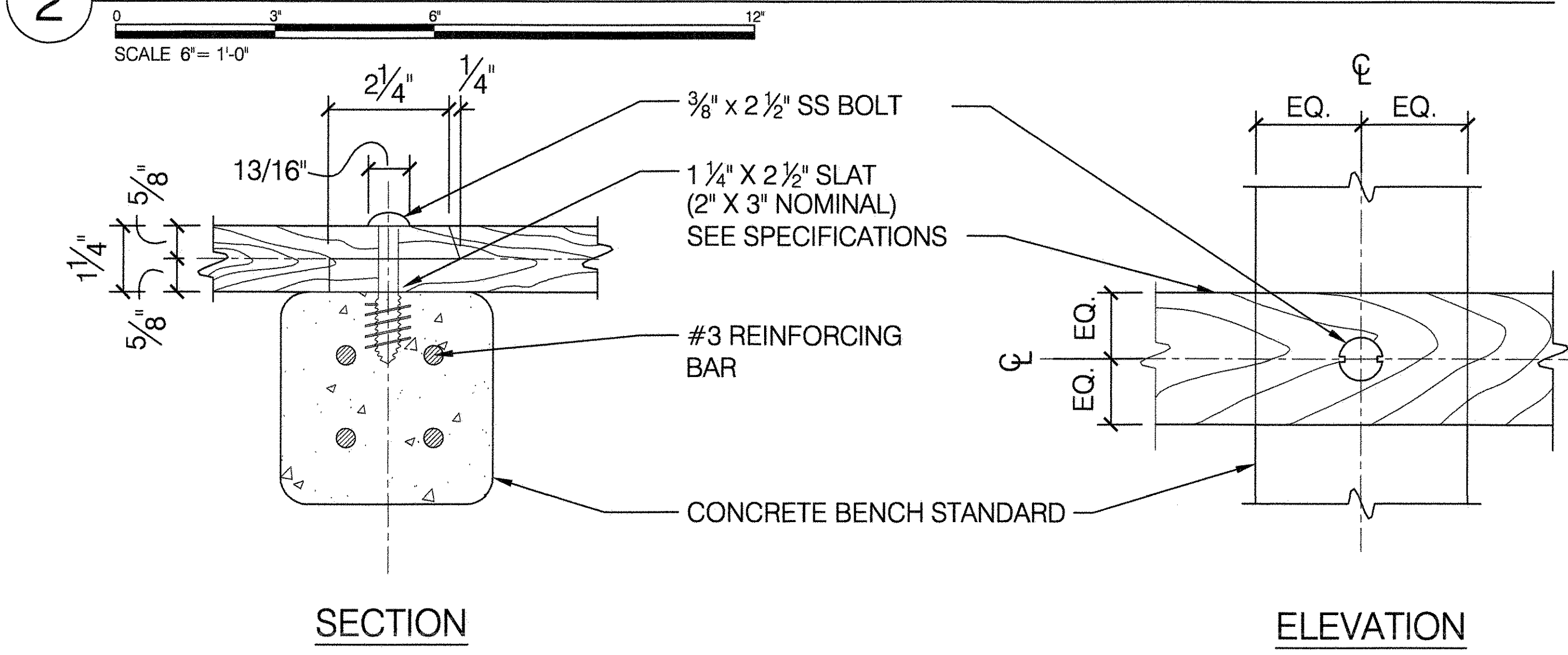
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APPROVED BY DIRECTOR	SHEET NO. 23
DATE 09-01-2020	SCALE AS SHOWN

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 091042
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1 CONCRETE BENCH STANDARD - SECTION

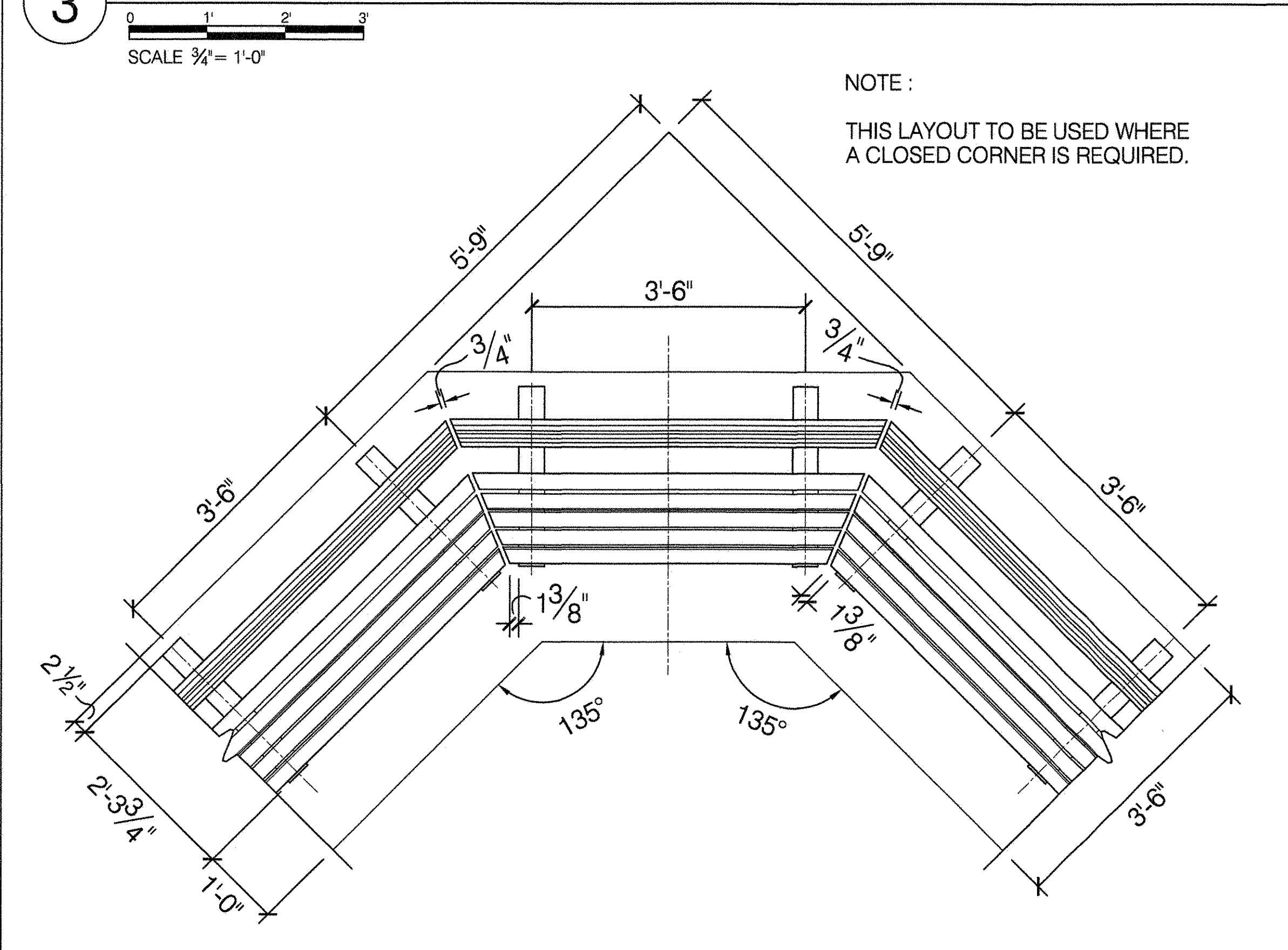


2 DETAIL OF SPLICE FOR CONTINUOUS BENCH

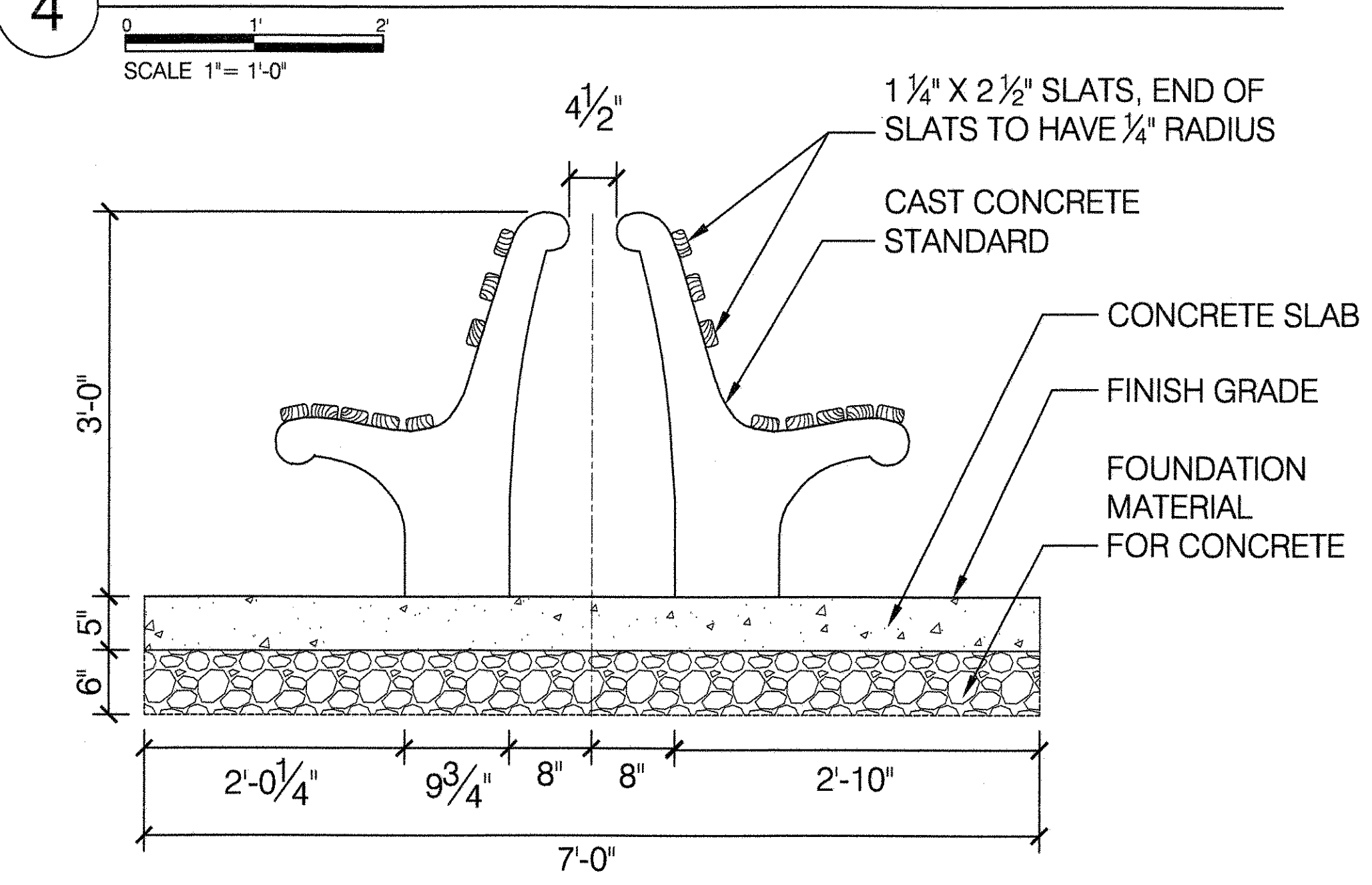


- NOTES:
1. GALVANIZED STEEL ANCHORS AND 18-8 STAINLESS STEEL TRUSS TYPE VANDAL- RESISTANT BOLTS WITH SIDE SLOTS OR APPROVED EQUAL.
 2. NOT MORE THAN 4 SLATS (ONE HALF OF TOTAL) TO BE SPLICED AT ANY ONE CONTINUOUS BENCH SUPPORT.
 3. SLATS FOR CONTINUOUS BENCHES TO BE MIN. 8'-0" LENGTHS - STAGGERED JOINTS.

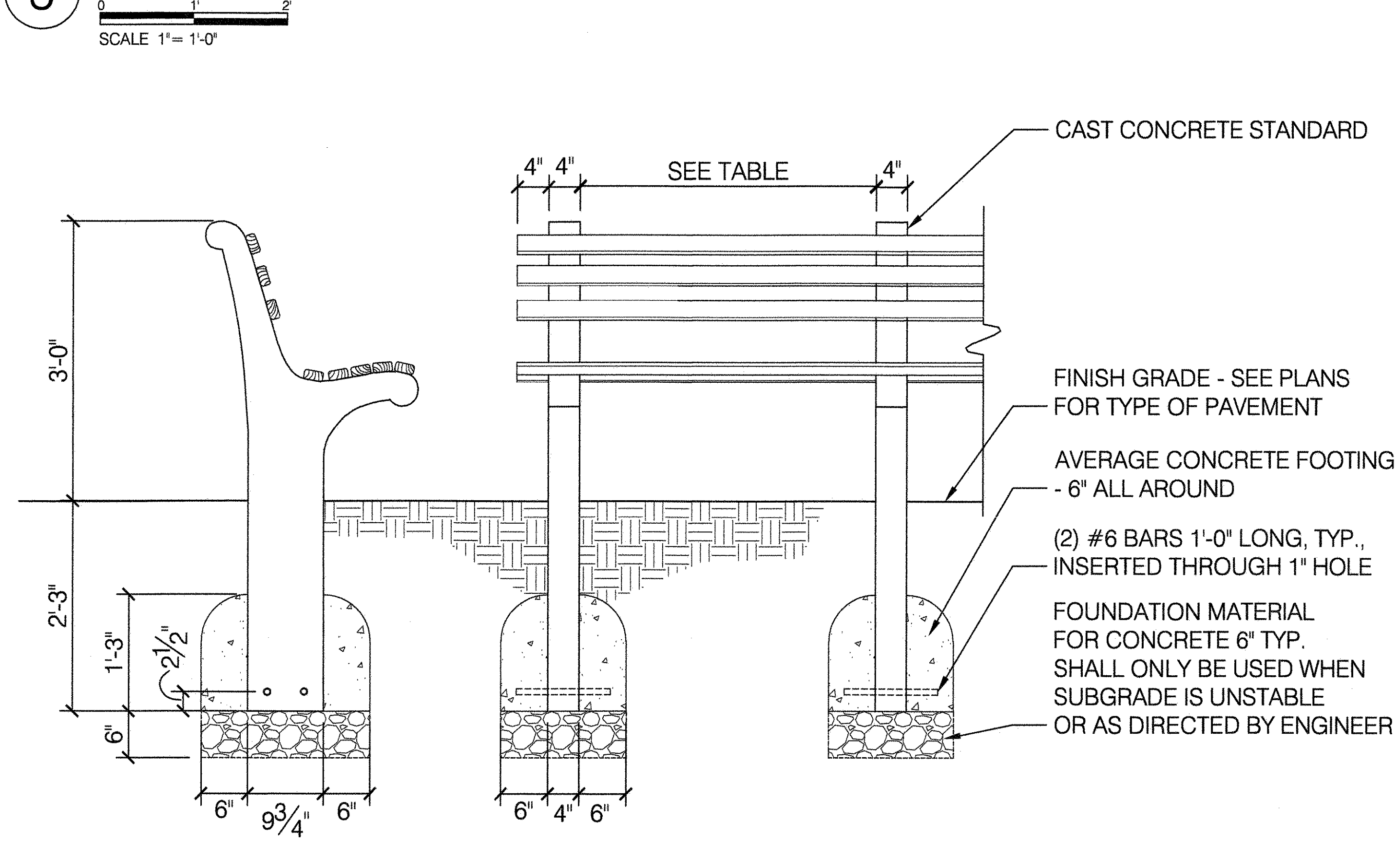
3 BENCHES SET ON A RIGHT ANGLE



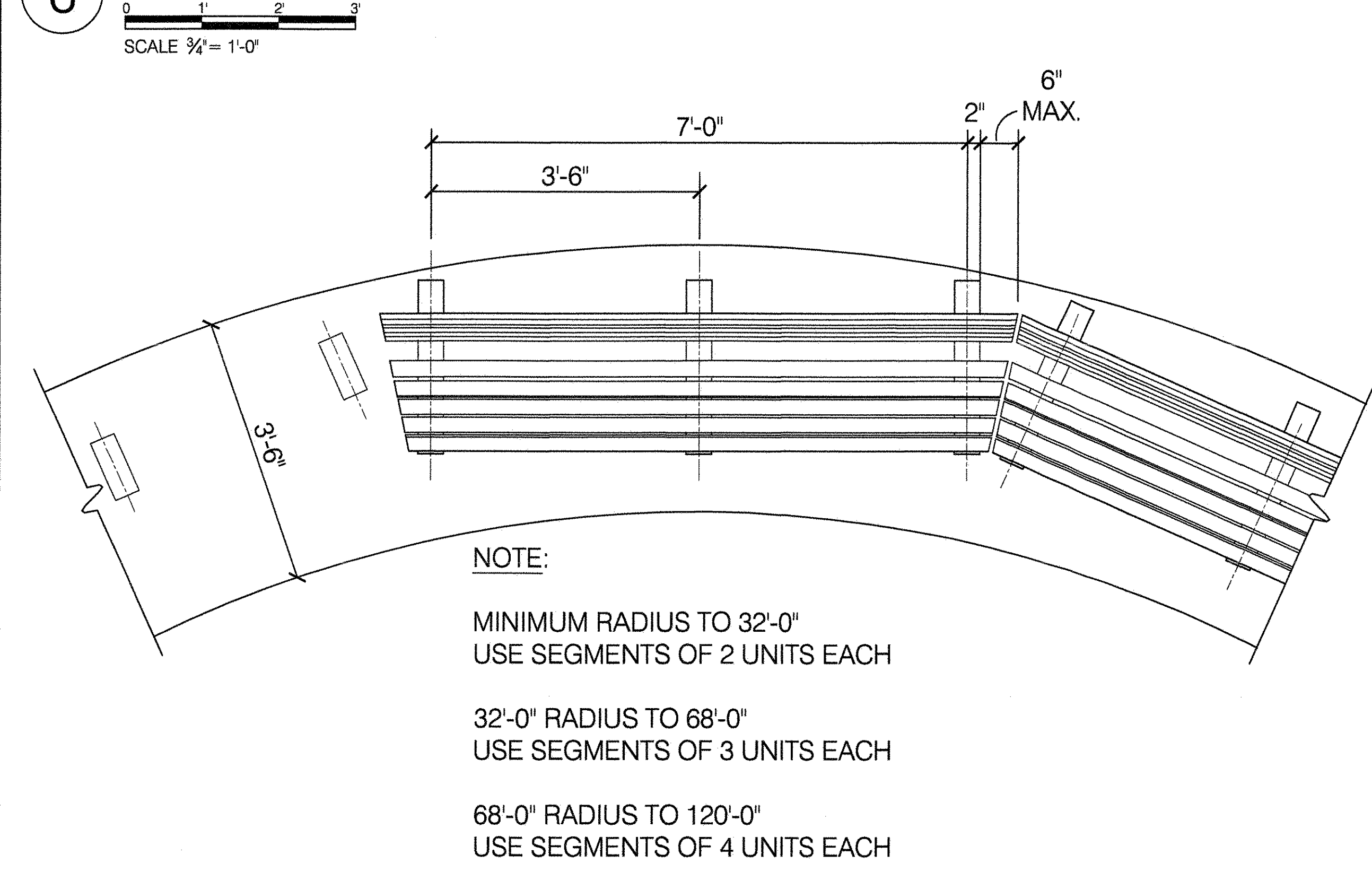
4 DOUBLE ROW BENCHES



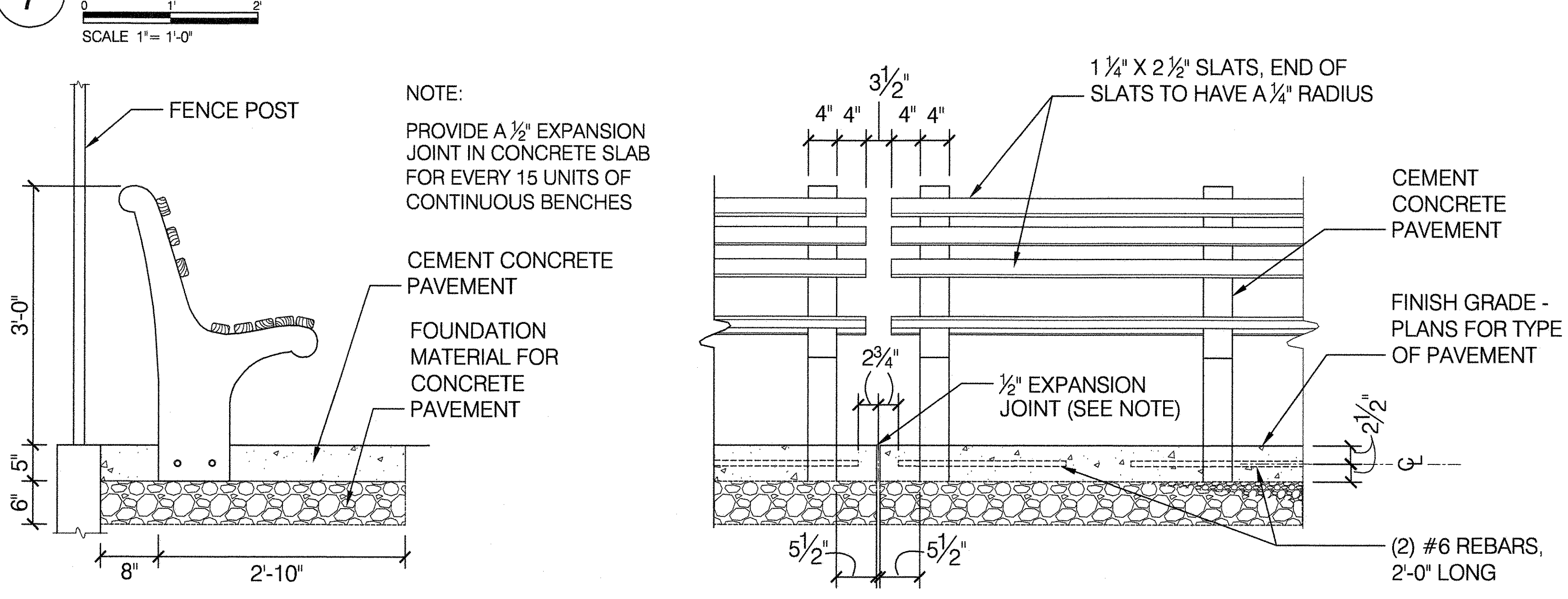
5 BENCH ON PIERS



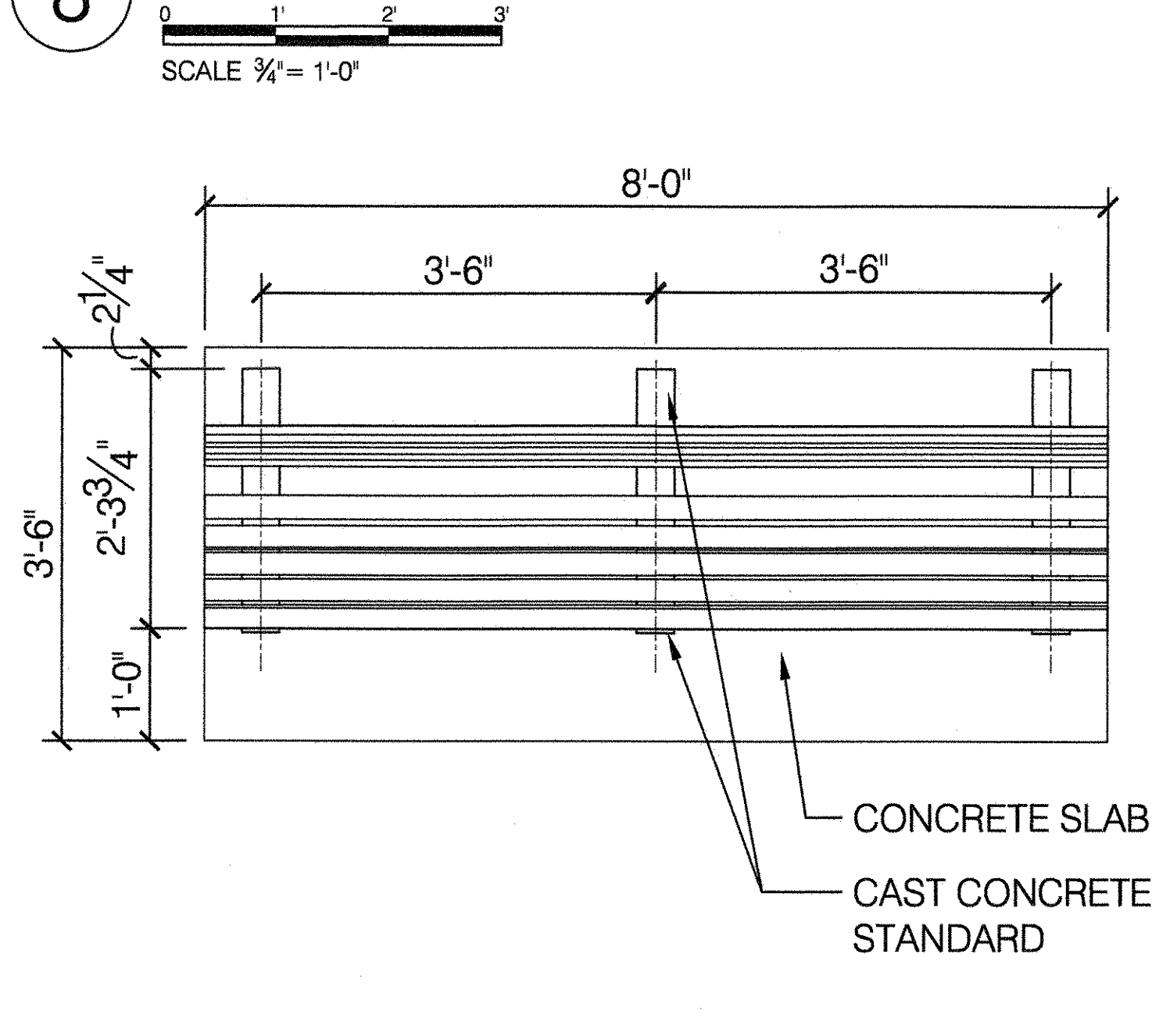
6 BENCHES SET ON A CURVE - TYPICAL PLAN



7 BENCH ON SLAB AT EXPANSION JOINT



8 BENCH ON SLAB - PLAN



9 GENERAL NOTES

1. CONCRETE SLAB OR PIERS POURED AFTER STANDARDS ARE SET IN PLACE.
2. ON ALL SLOPES UP TO 2%, SET BENCHES PARALLEL TO SLOPES. ON SLOPES BETWEEN 2% AND 4%, SET BENCHES AT 2%.
3. NO BENCHES SHALL BE PLACED ON SLOPES EXCEEDING 4%.
4. A UNIT IS 3'-6" (C. TO C. OF STANDARDS) ALL EDGES AND CORNERS OF STANDARDS TO HAVE 1/4" RADIUS.
5. WHEN UNIT PAVERS ARE USED AS THE PAVEMENT FINISHING MATERIAL UNDER BENCH, THE CAST CONCRETE BENCH STANDARD SHALL BE PIER TYPE.
6. SLATS SHALL BE WOOD. SEE SPECIFICATIONS FOR WOOD INFORMATION. BENCH NOT DESIGNED FOR RECYCLED PLASTIC LUMBER.

TABLE OF BENCH LENGTHS

BENCH LENGTH	NUMBER OF LEGS	CENTER TO CENTER CONC. STANDARDS	OVERHANG (EACH END)
4'-0"	2	3'-0"	4"
5'-0"	2	4'-0"	4"
6'-0"	3	2'-5"	4"
7'-0"	3	3'-0"	4"
8'-0"	3	3'-6"	4"

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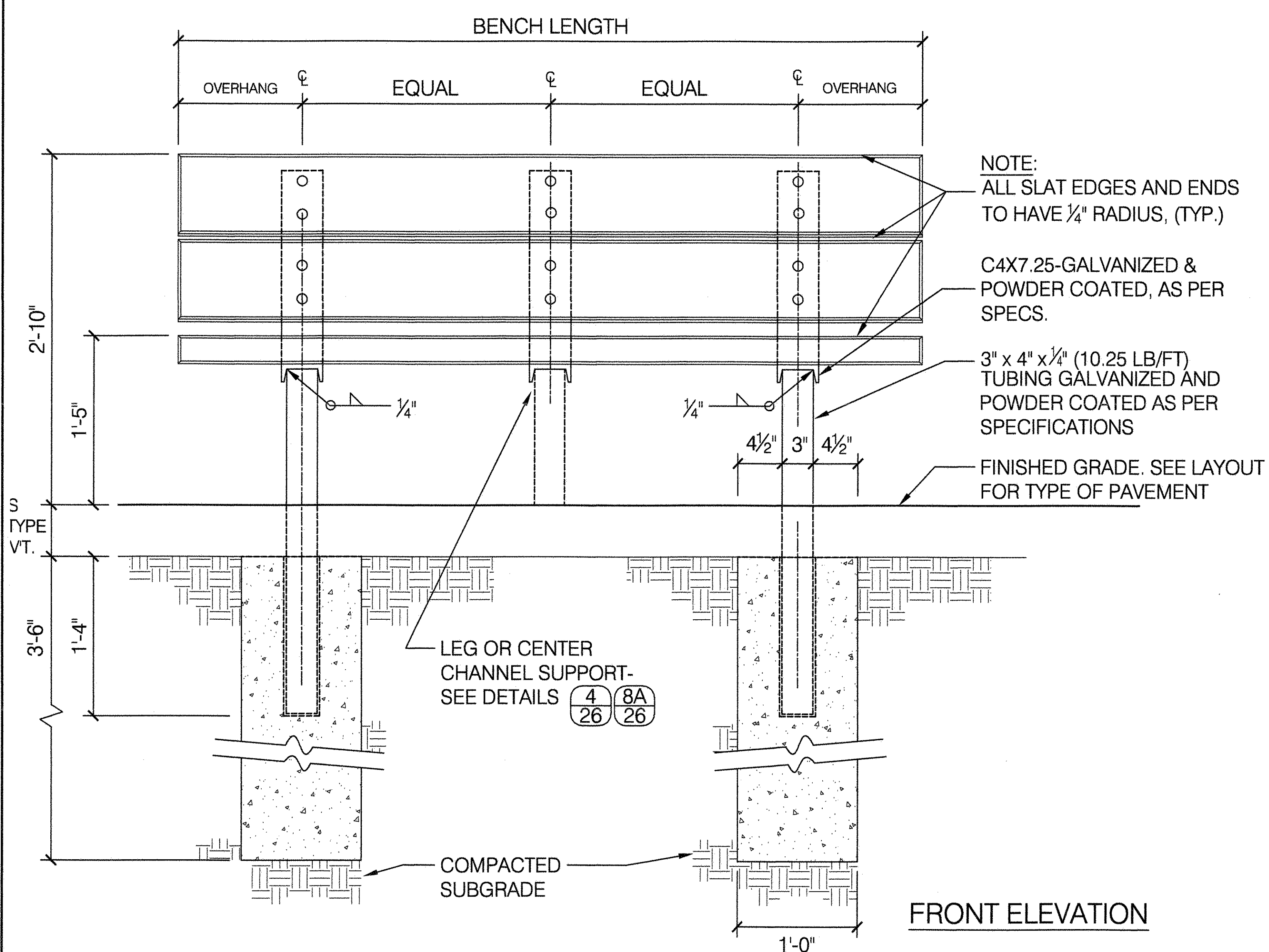
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DRAWING TITLE
BENCH, TYPE 'B'

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DATE 09-01-2020	SCALE AS SHOWN

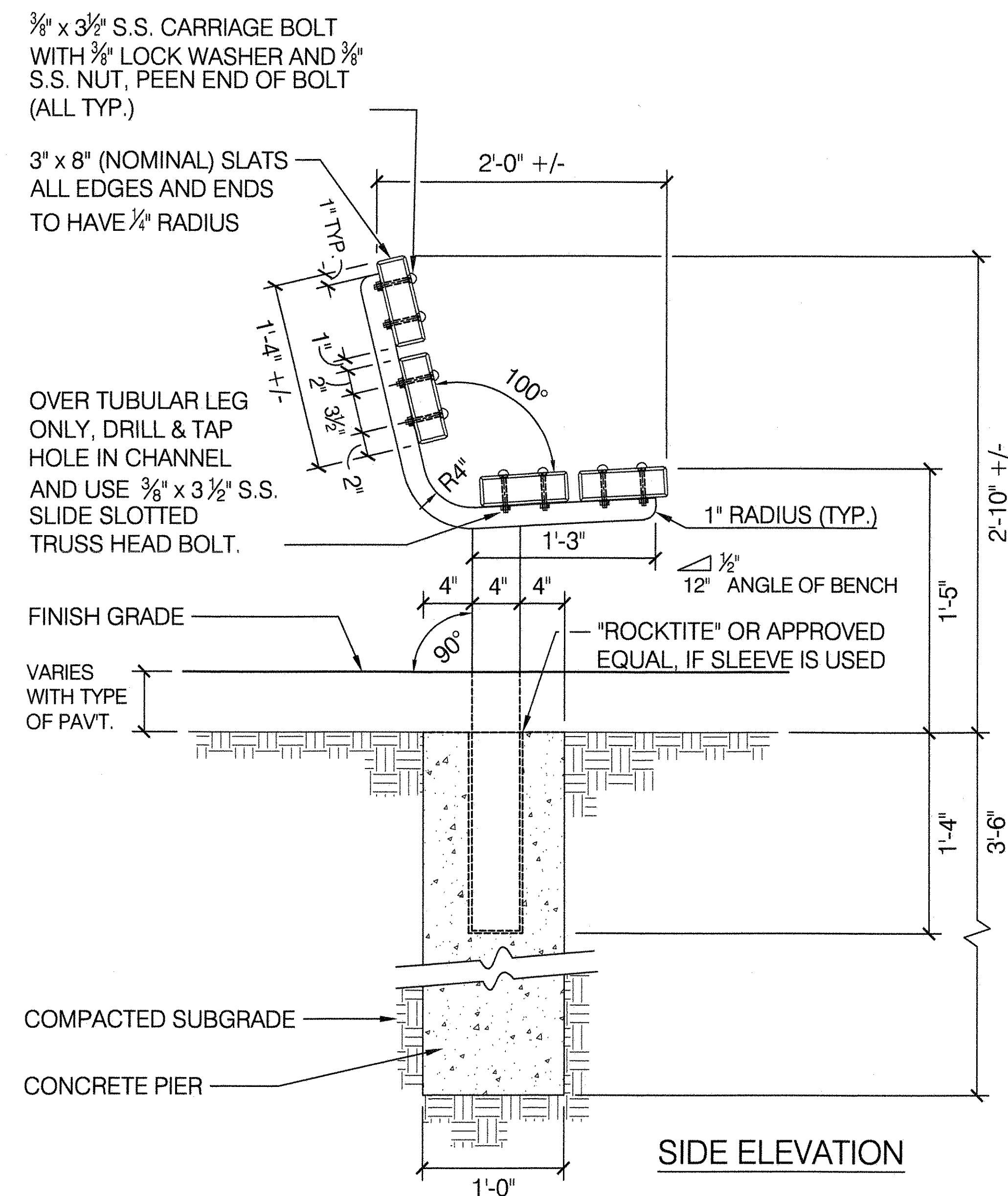
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091042

1 TYPE 'C' BENCH ON CONCRETE PIERS

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



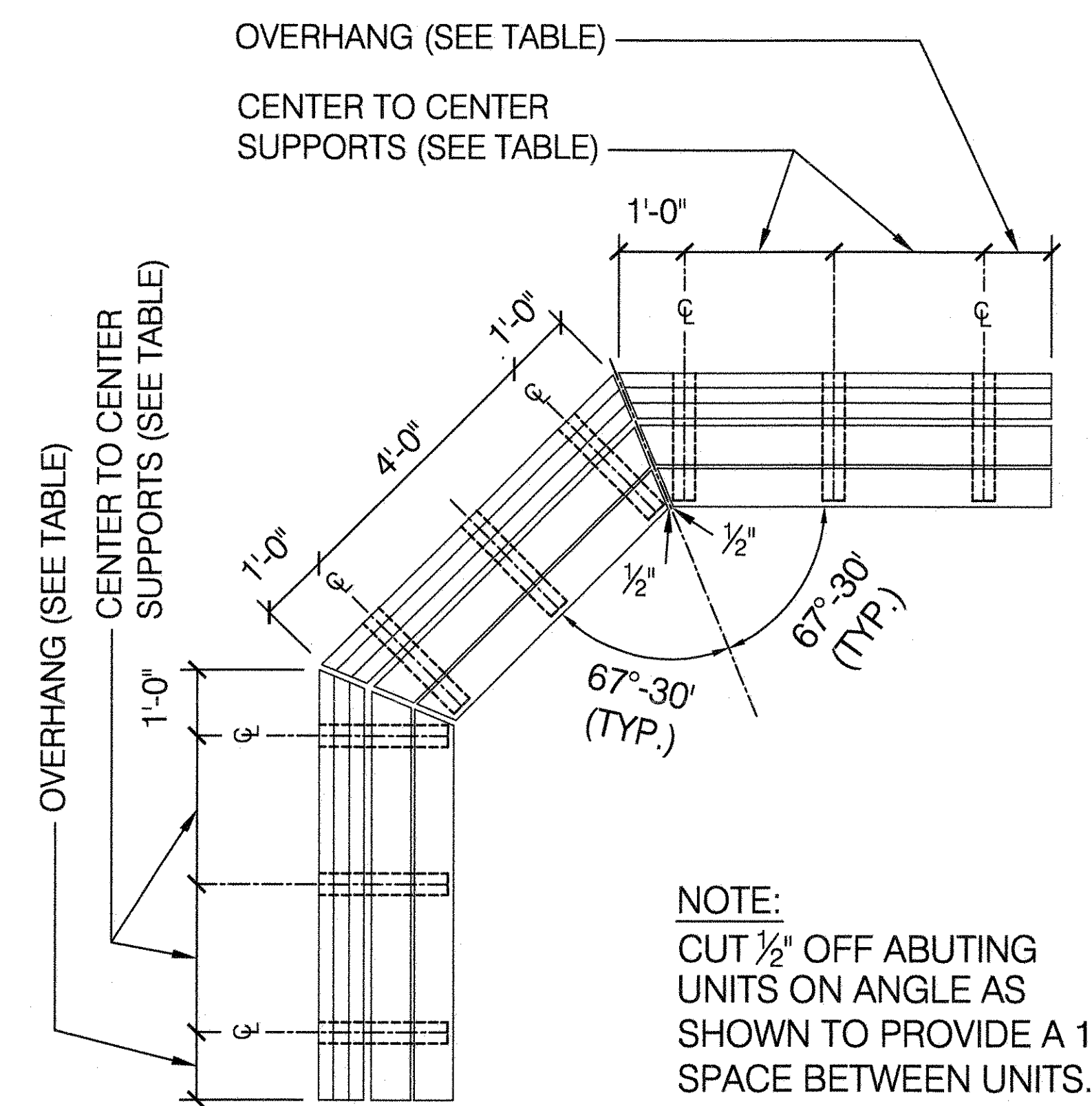
FRONT ELEVATION



SIDE ELEVATION

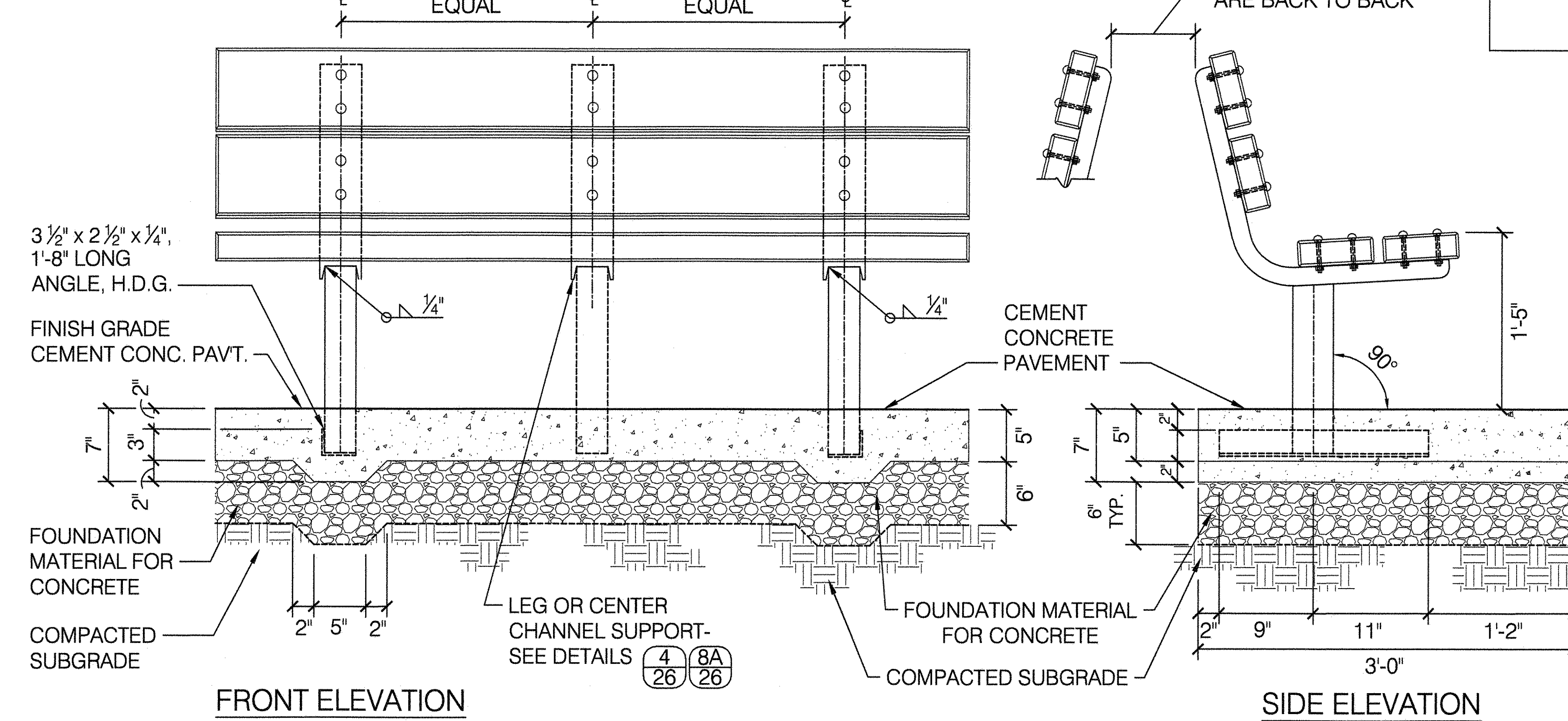
2 PLAN OF RIGHT ANGLE TURN

SCALE 1/2" = 1'-0"



3 TYPE 'C' BENCH ON CONCRETE SLAB

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

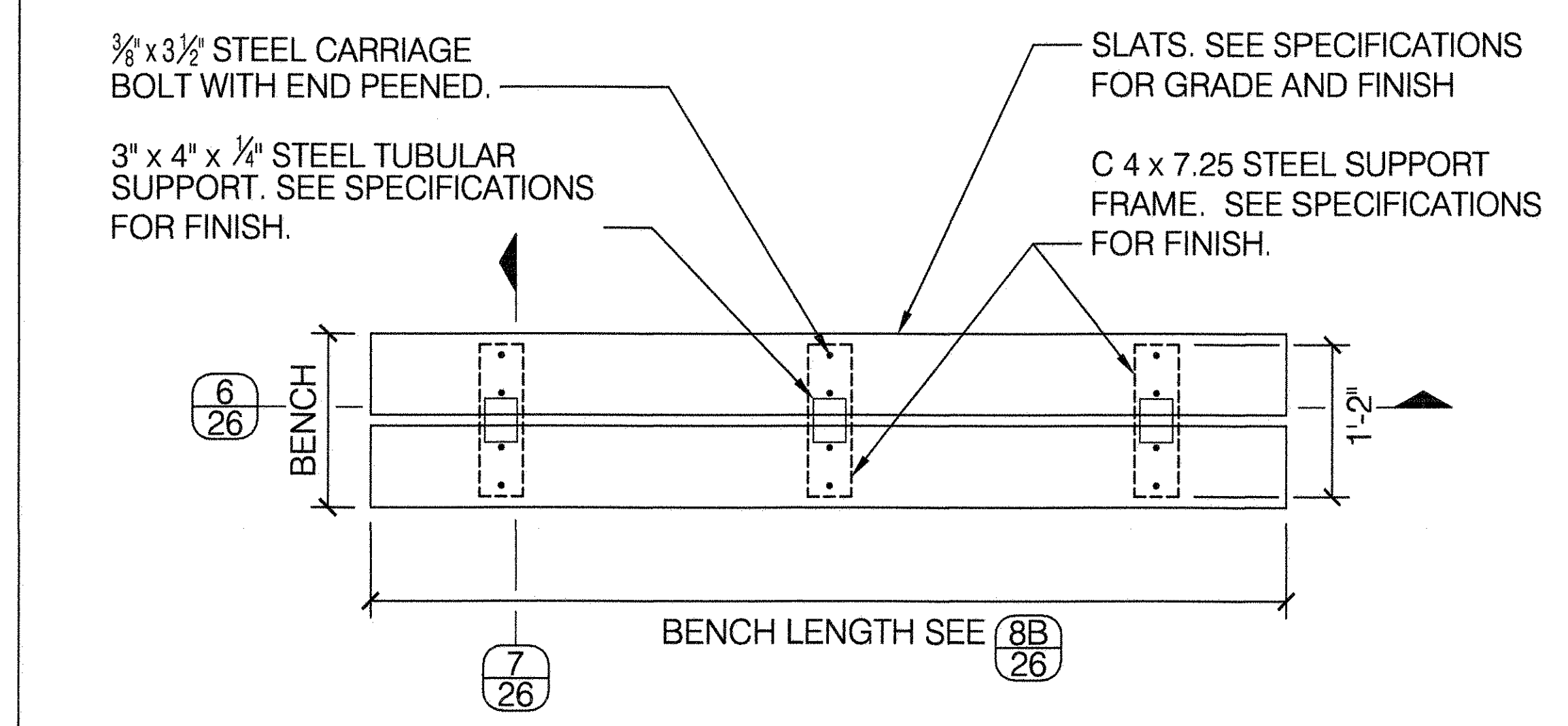


FRONT ELEVATION

SIDE ELEVATION

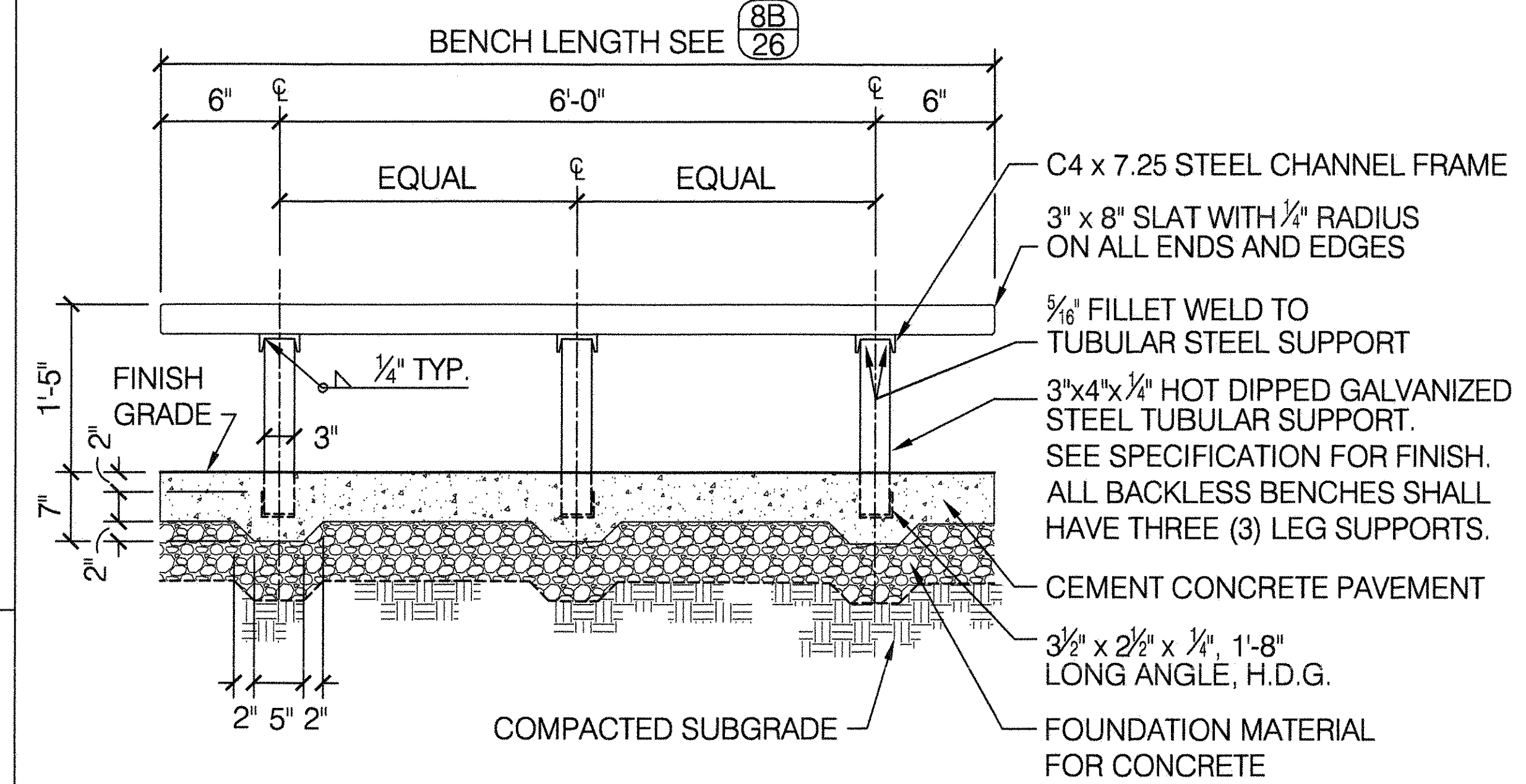
5 TYPE 'C' BACKLESS BENCH ON SLAB - PLAN

SCALE 1" = 1'-0"



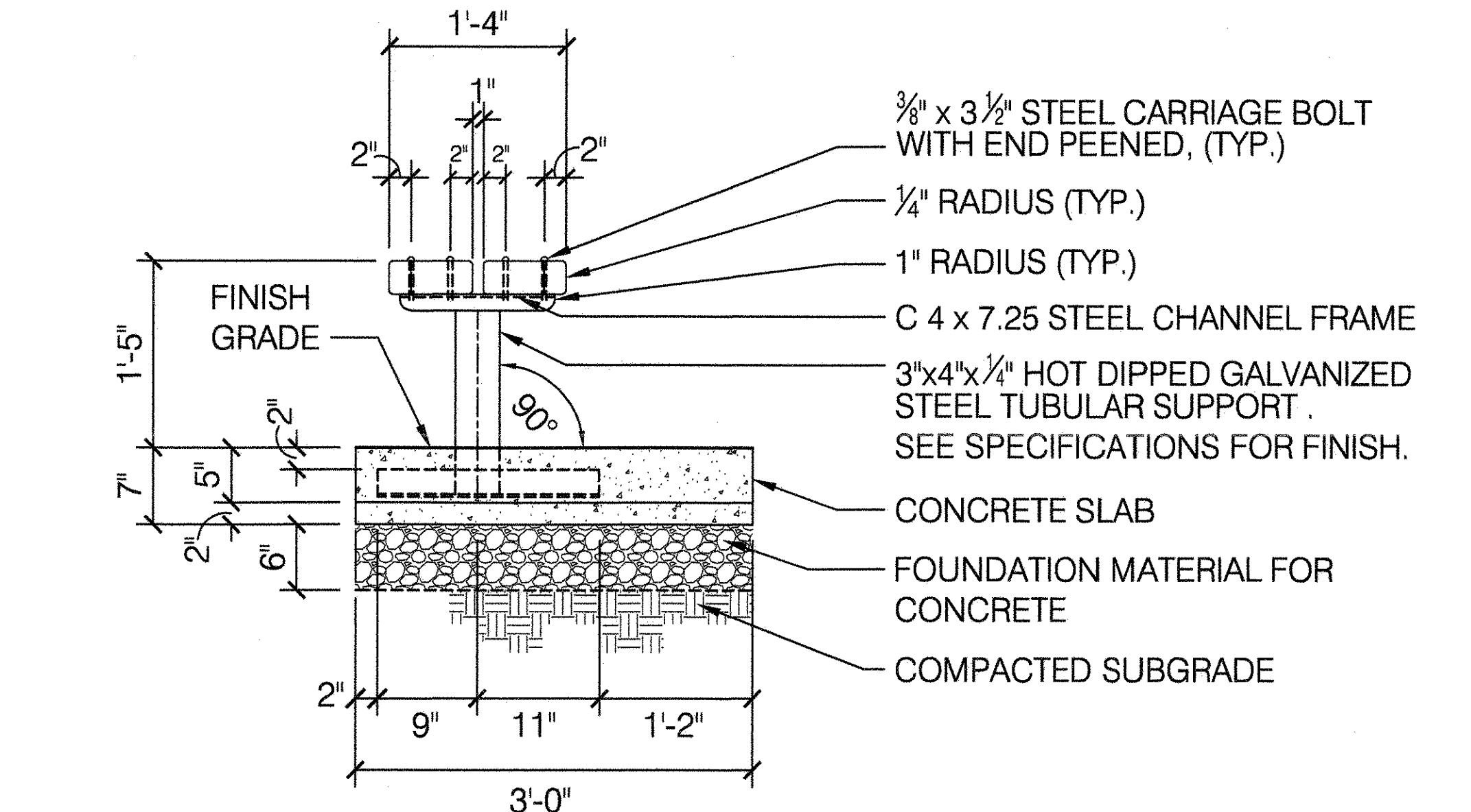
6 BACKLESS - SECTION

SCALE 1" = 1'-0"



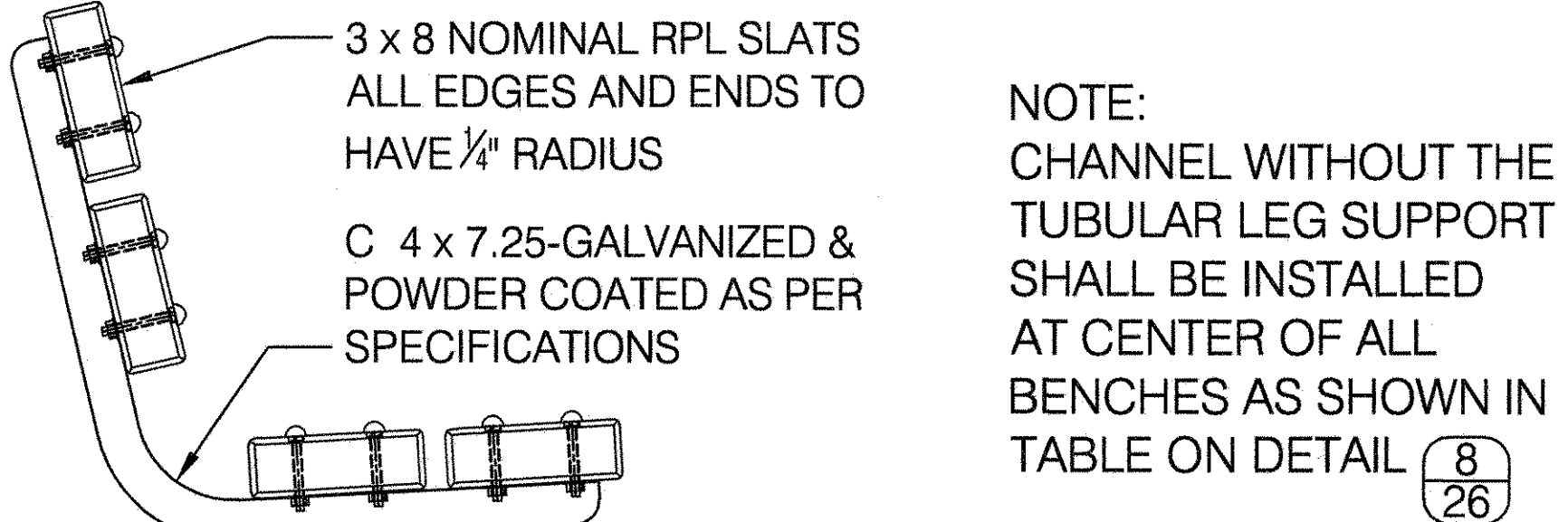
7 BACKLESS - SECTION

SCALE 1" = 1'-0"



4 CENTER CHANNEL SUPPORT

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



8 TABLE OF BENCH LENGTHS

A BENCH WITH BACK

BENCH LENGTH	CENTER TO CENTER SUPPORTS AND LEGS	OVERHANG (EACH END)	# OF LEGS WITH BACK	# OF CENTER CHANNEL SUPPORTS
4'-0"	3'-0"	0'-6"	2	0
5'-0"	2'-0"	0'-6"	2	1
6'-0"	2'-6"	0'-6"	2	1
7'-0"	3'-0"	0'-6"	3	0

NOTE: MAXIMUM 7' BENCH LENGTH

B BACKLESS

BENCH LENGTH	CENTER TO CENTER SUPPORTS AND LEGS	OVERHANG (EACH END)	# OF LEGS BACKLESS	# OF CENTER CHANNEL SUPPORTS
4'-0"	3'-0"	0'-6"	2	0
5'-0"	2'-0"	0'-6"	3	0
6'-0"	2'-6"	0'-6"	3	0
7'-0"	3'-0"	0'-6"	3	0

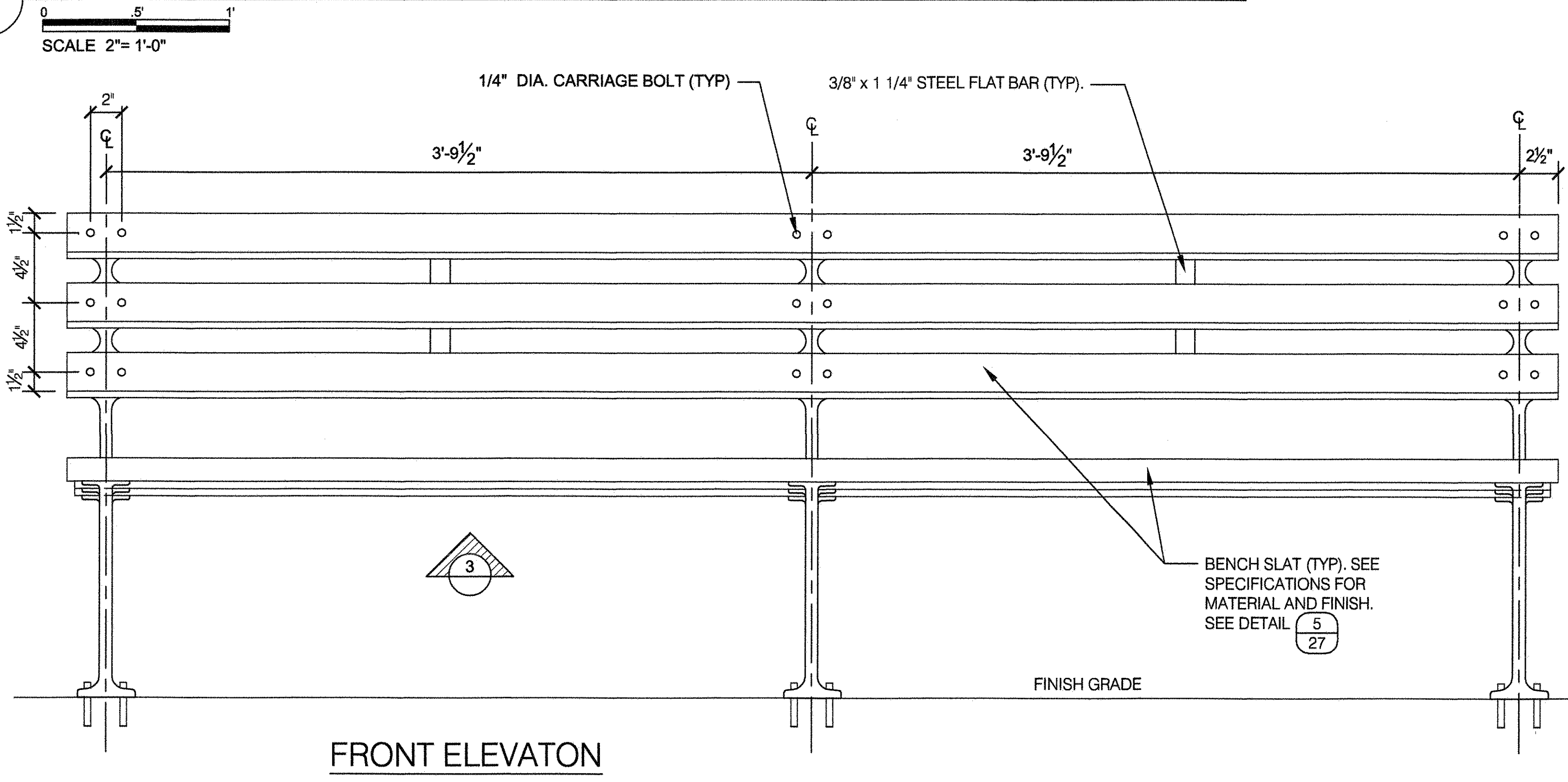


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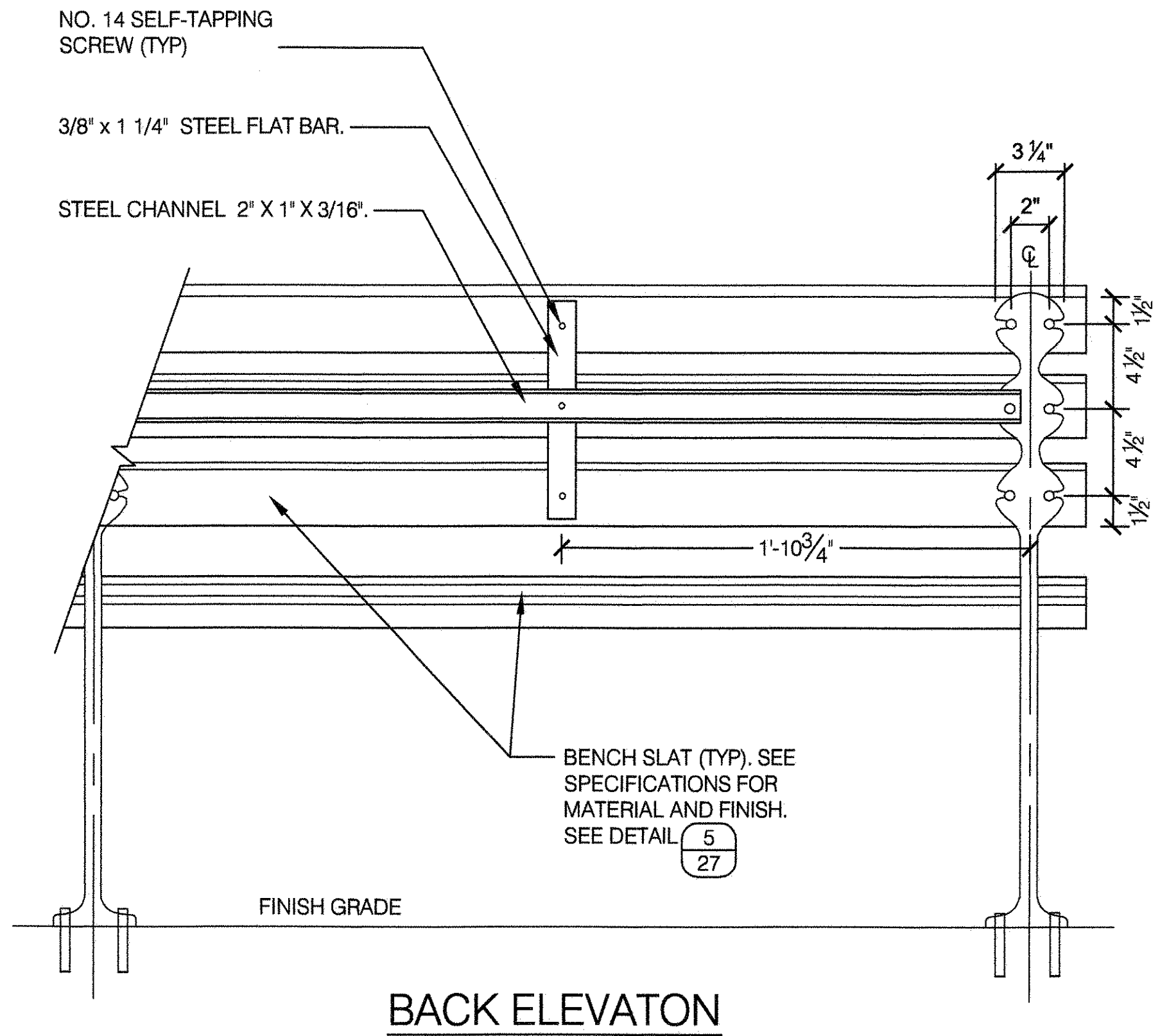
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DRAWING TITLE
BENCH, TYPE "C" (SPORTS) W/ RPL SLATS

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APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 26
	SCALE AS SHOWN

1 BENCH ELEVATION - 8'-0" LENGTH (ARMLESS)

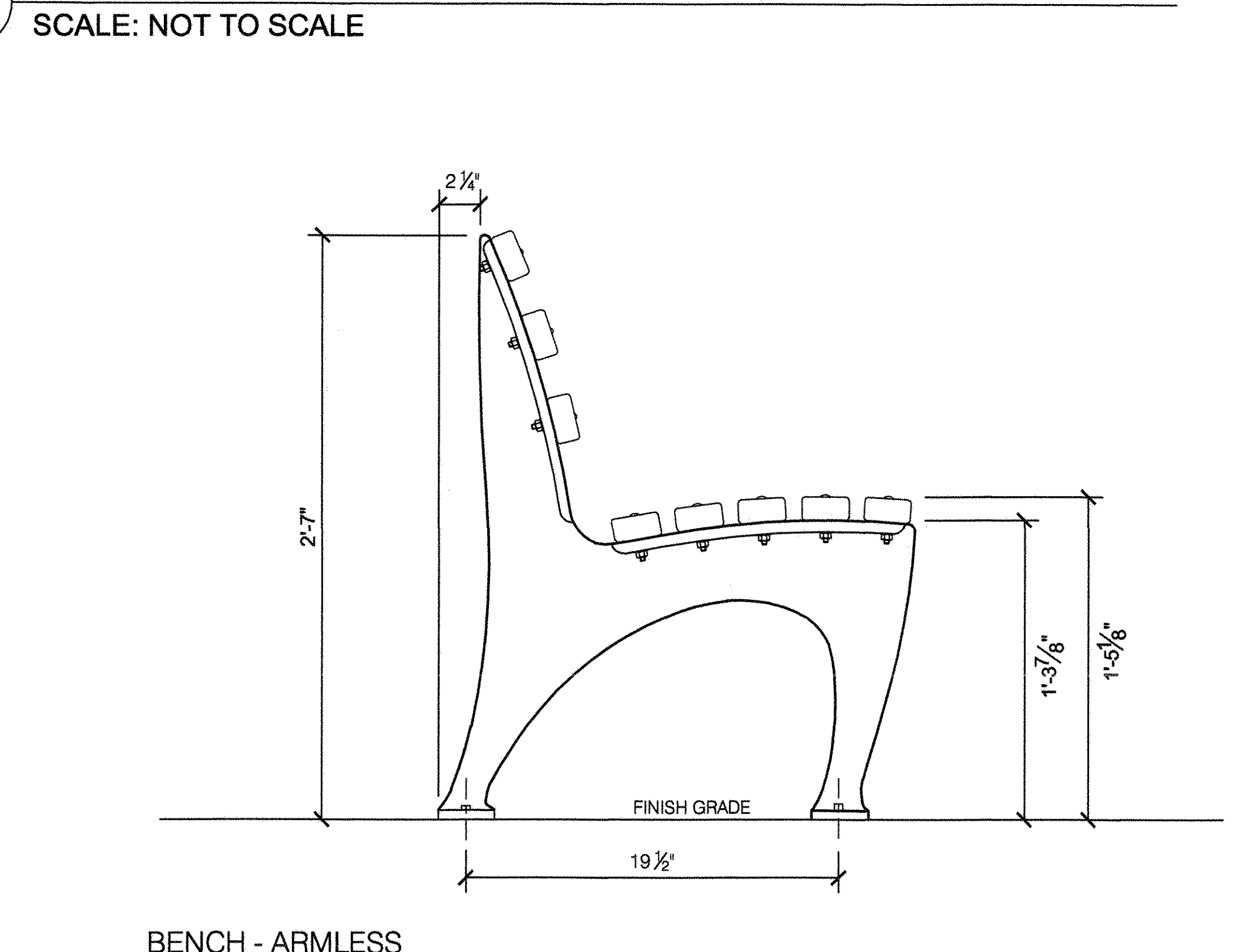


FRONT ELEVATION



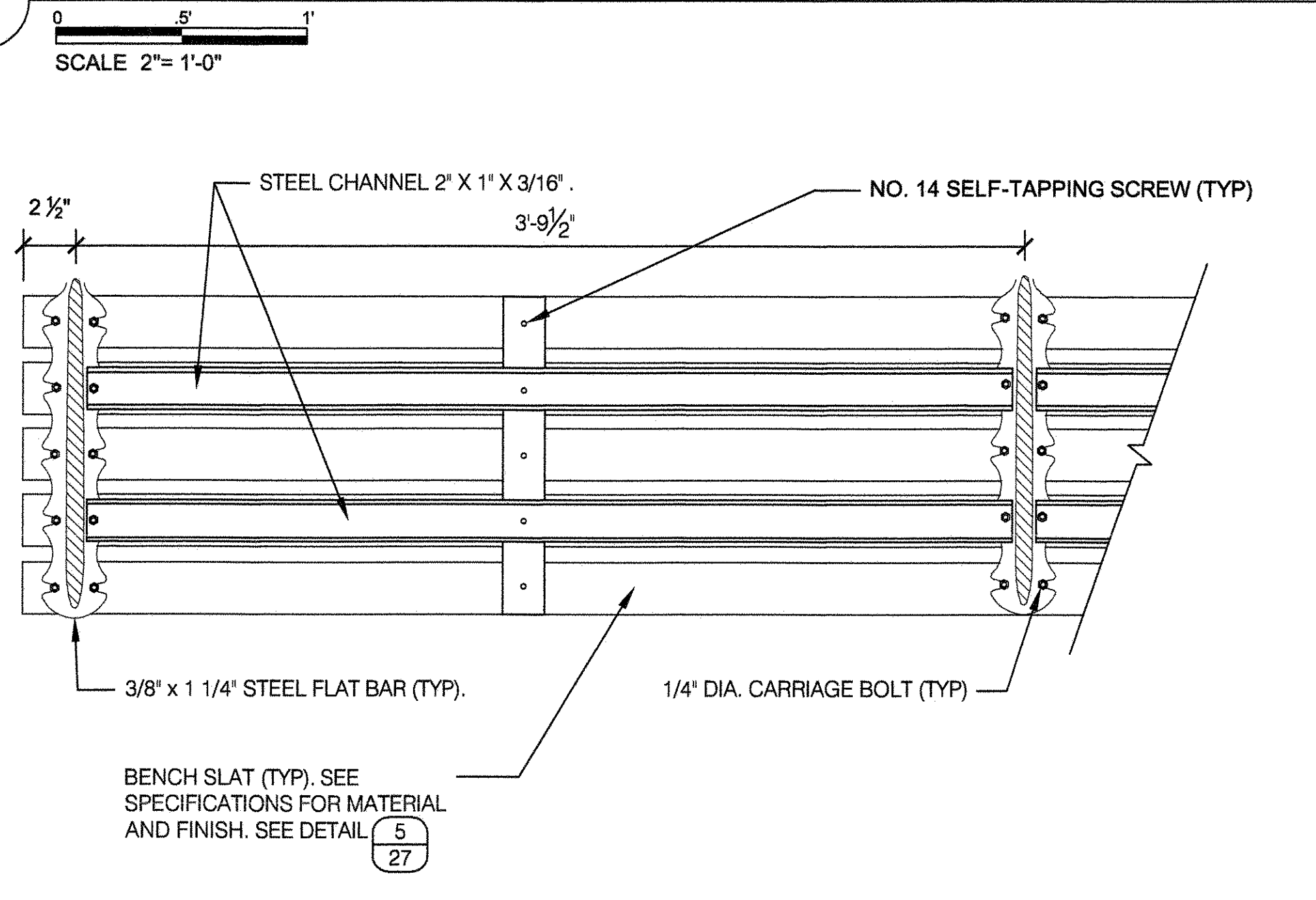
BACK ELEVATION

2 BENCH SIDE ELEVATIONS

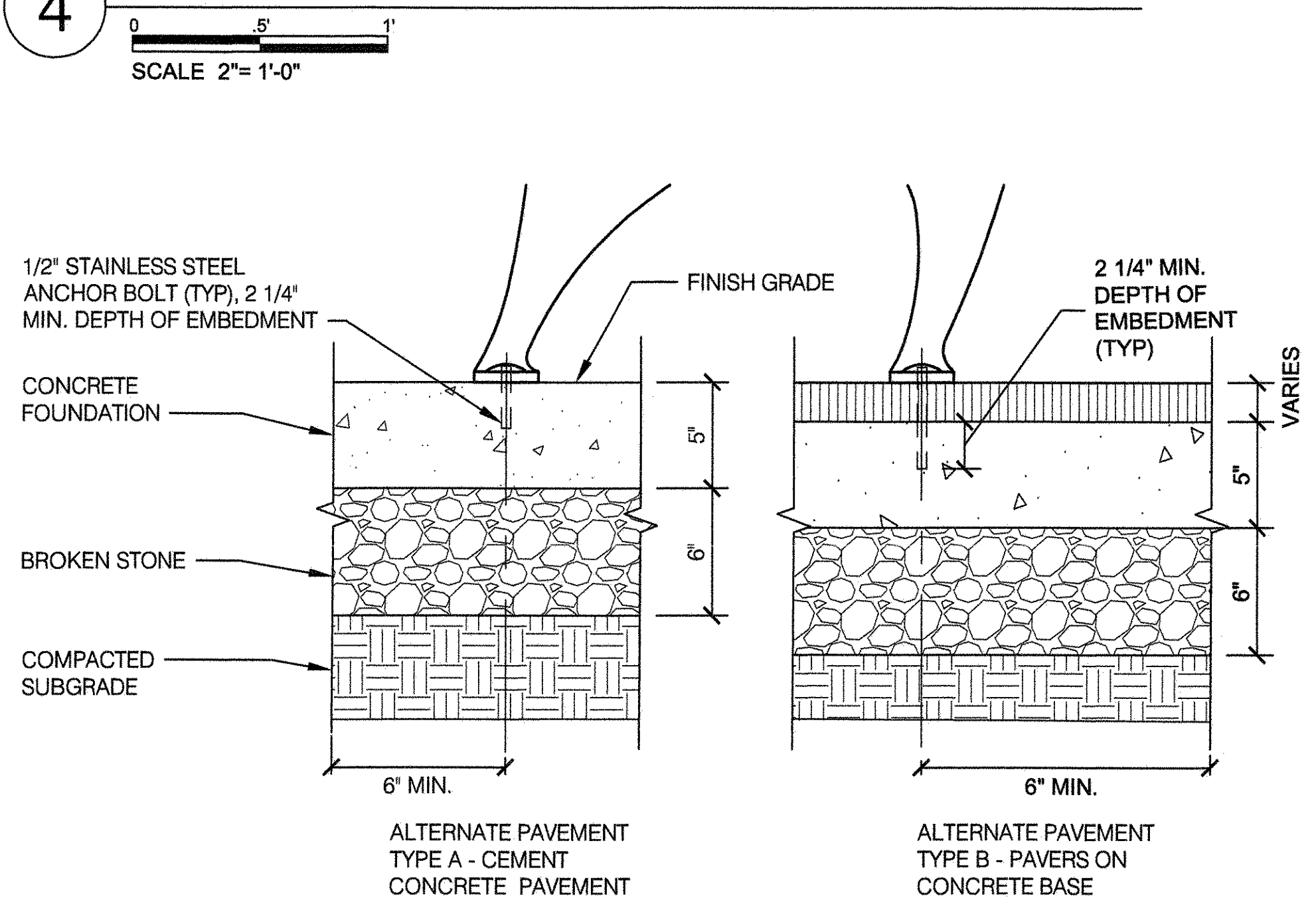


BENCH - ARMLESS

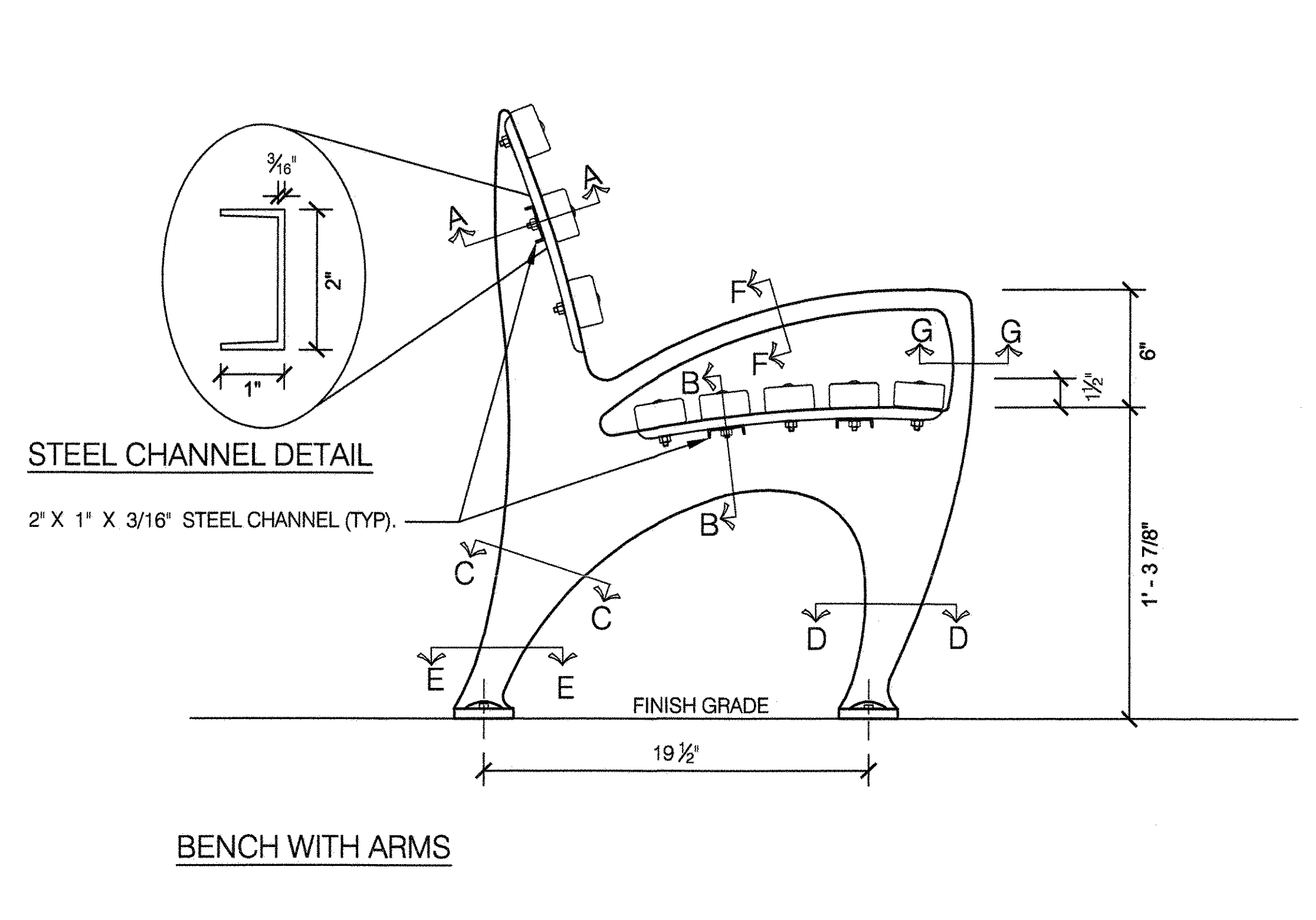
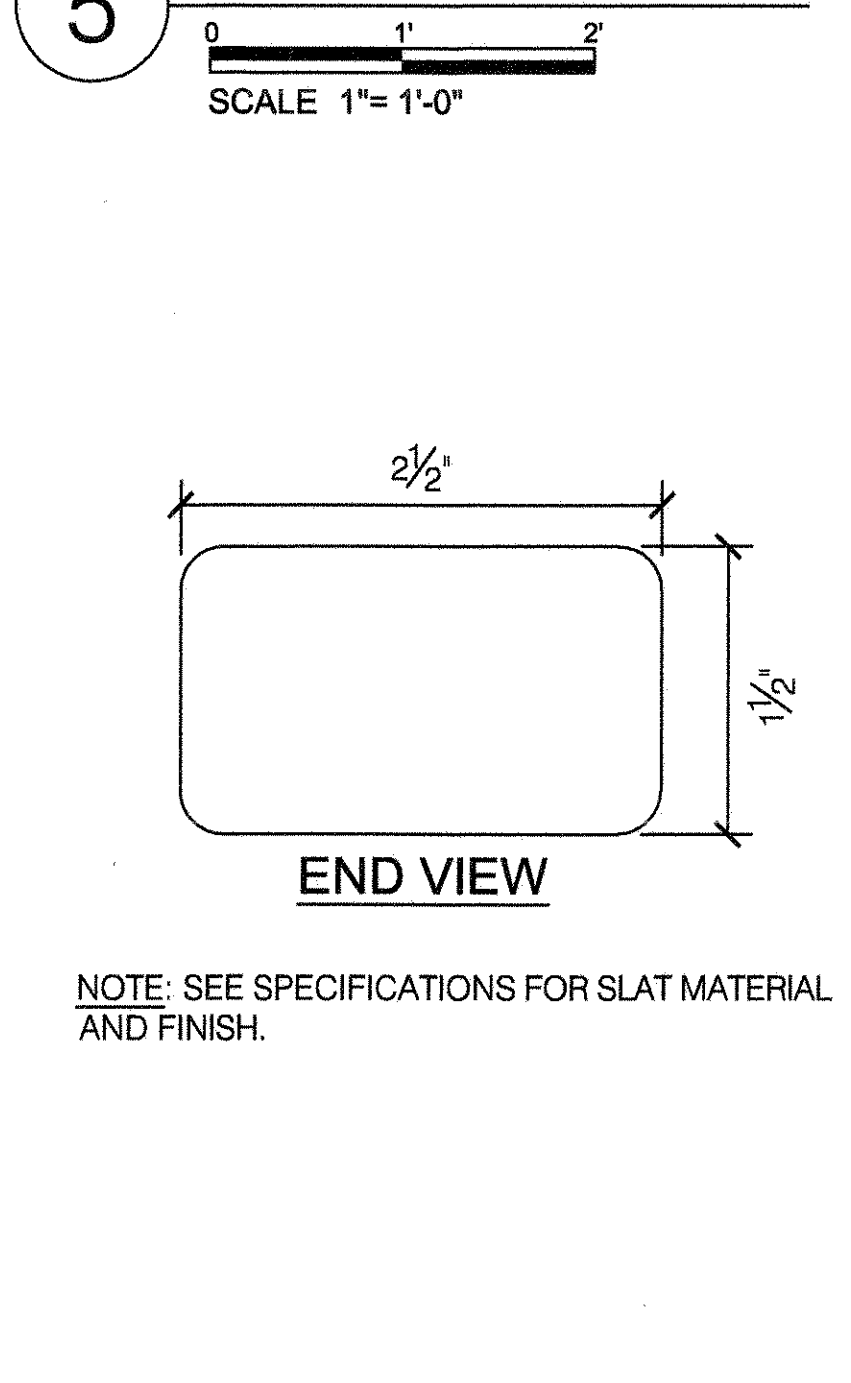
3 BENCH - BOTTOM ELEVATION



4 BENCH - ATTACHMENT TO PAVEMENT

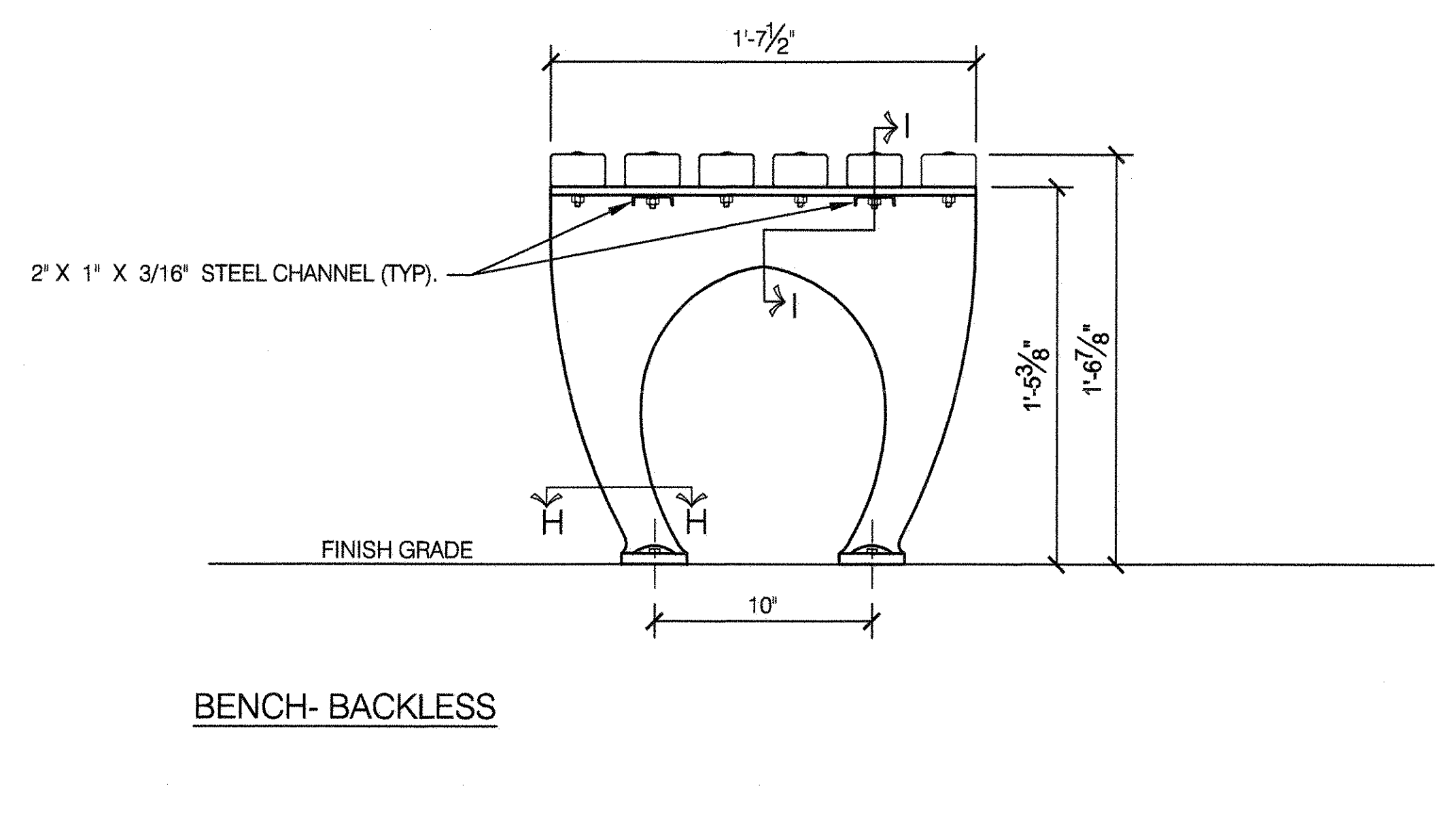
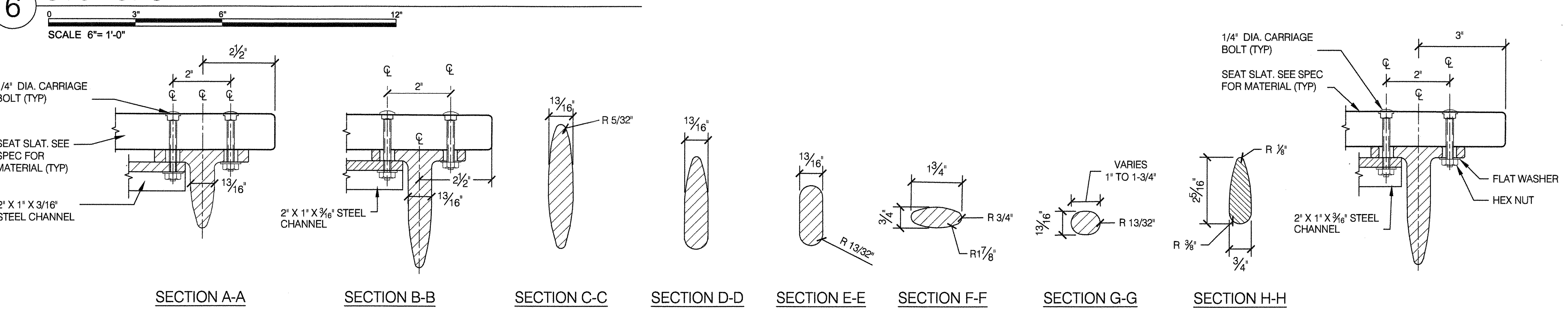


5 BENCH SLAT



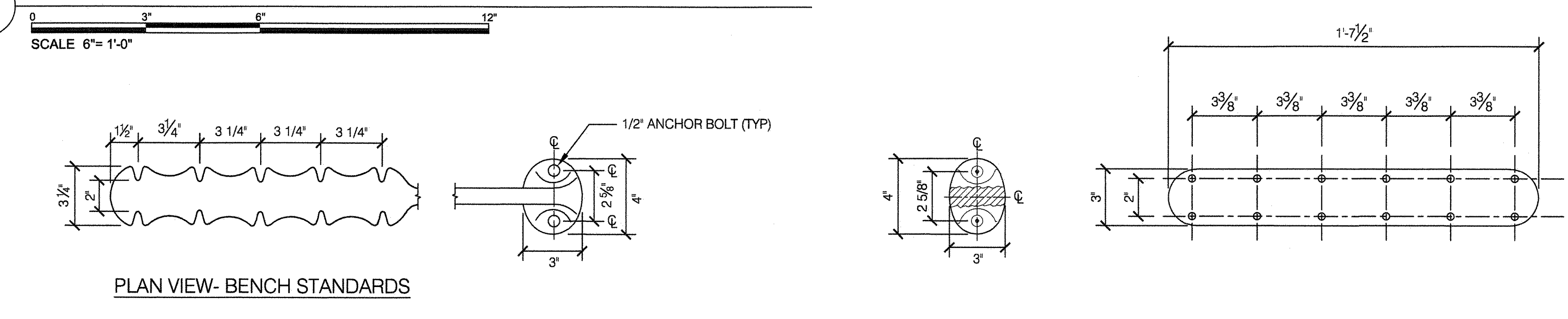
BENCH WITH ARMS

6 SECTIONS



BENCH- BACKLESS

7 SEAT SLAT SUPPORT



PLAN VIEW- BENCH STANDARDS

SCHEDULE FOR REQUIRED STANDARDS (LEGS)

BENCH LENGTH	# OF LEGS	CENTER TO CENTER LEG SUPPORT
4'-0"	2	3'-7"
6'-0"	2	5'-7"
8'-0"	3	3'-9 1/2"

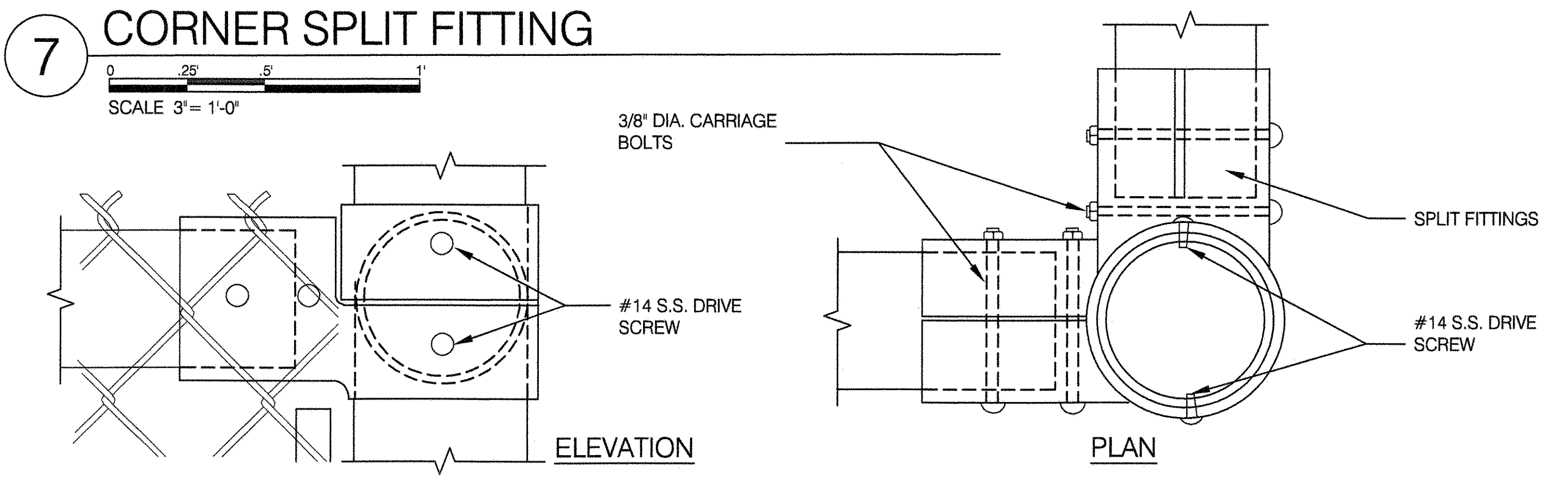
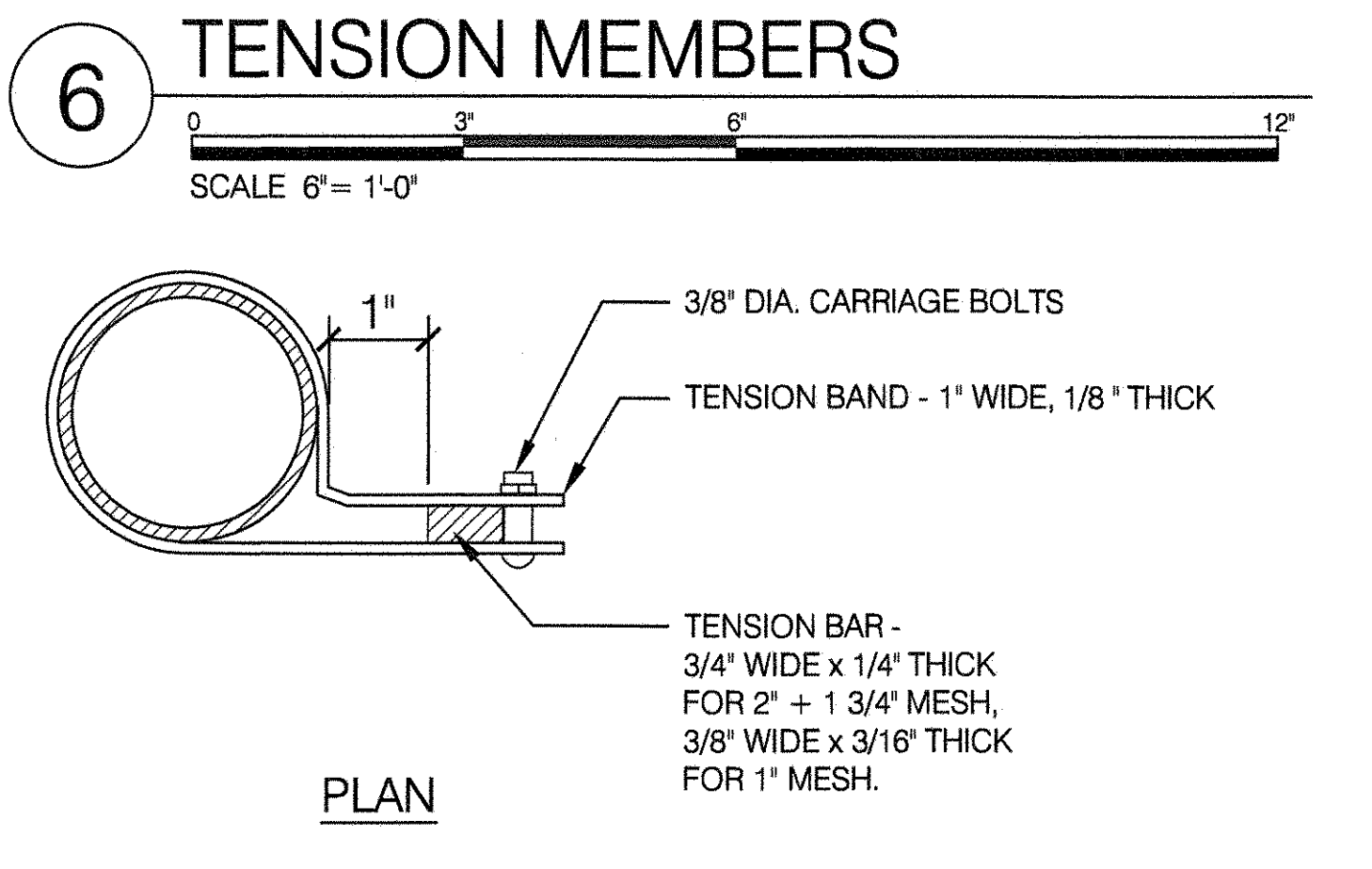
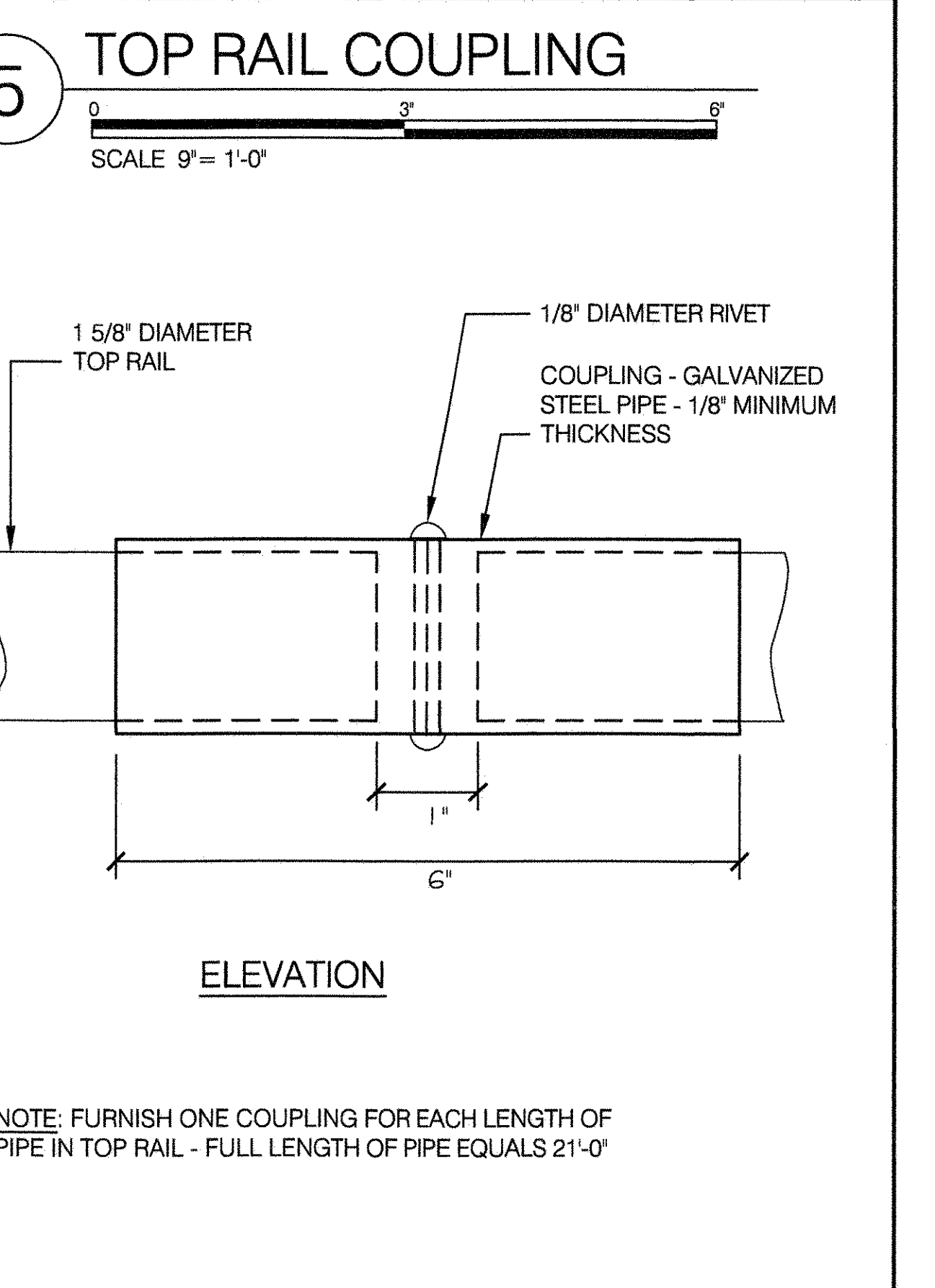
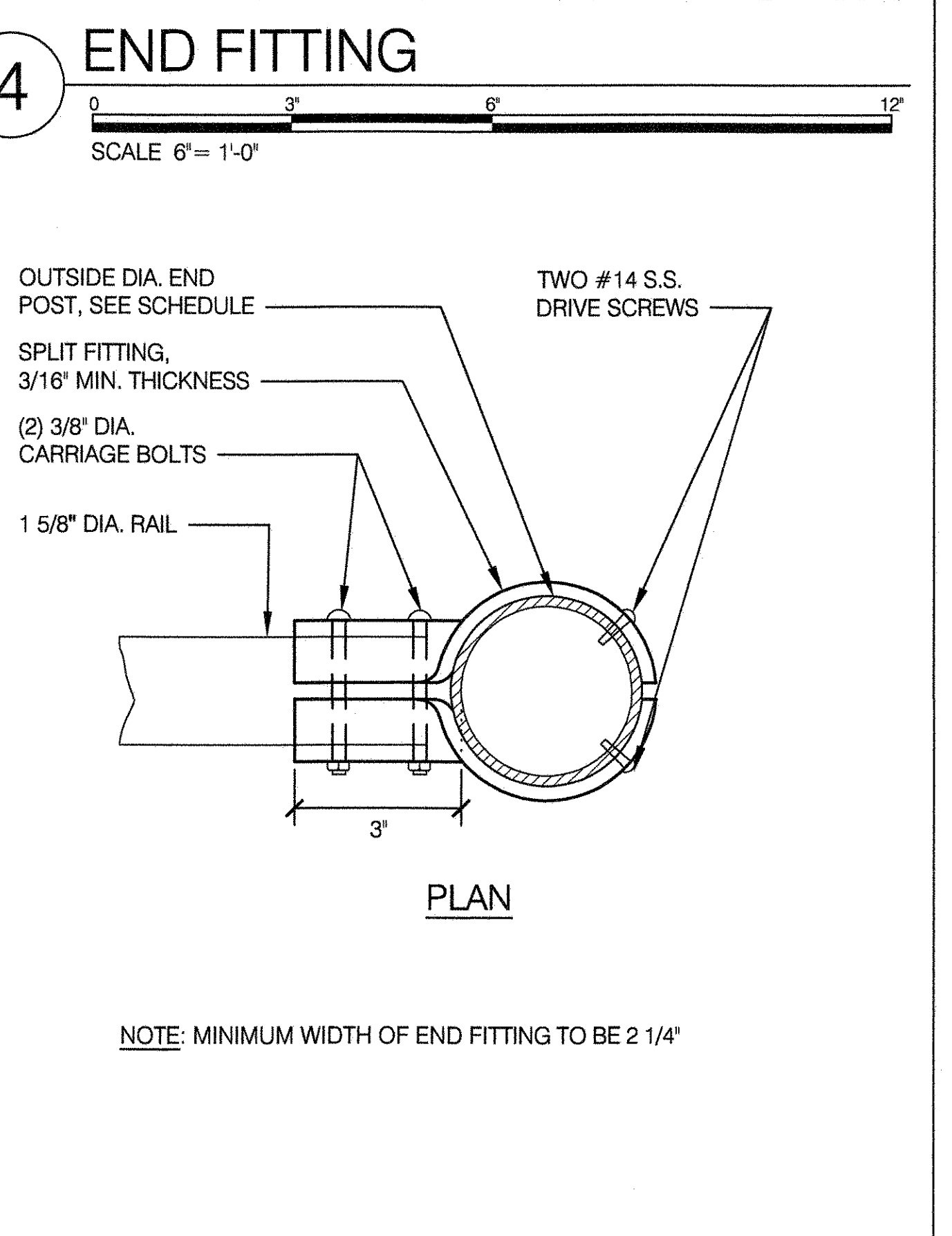
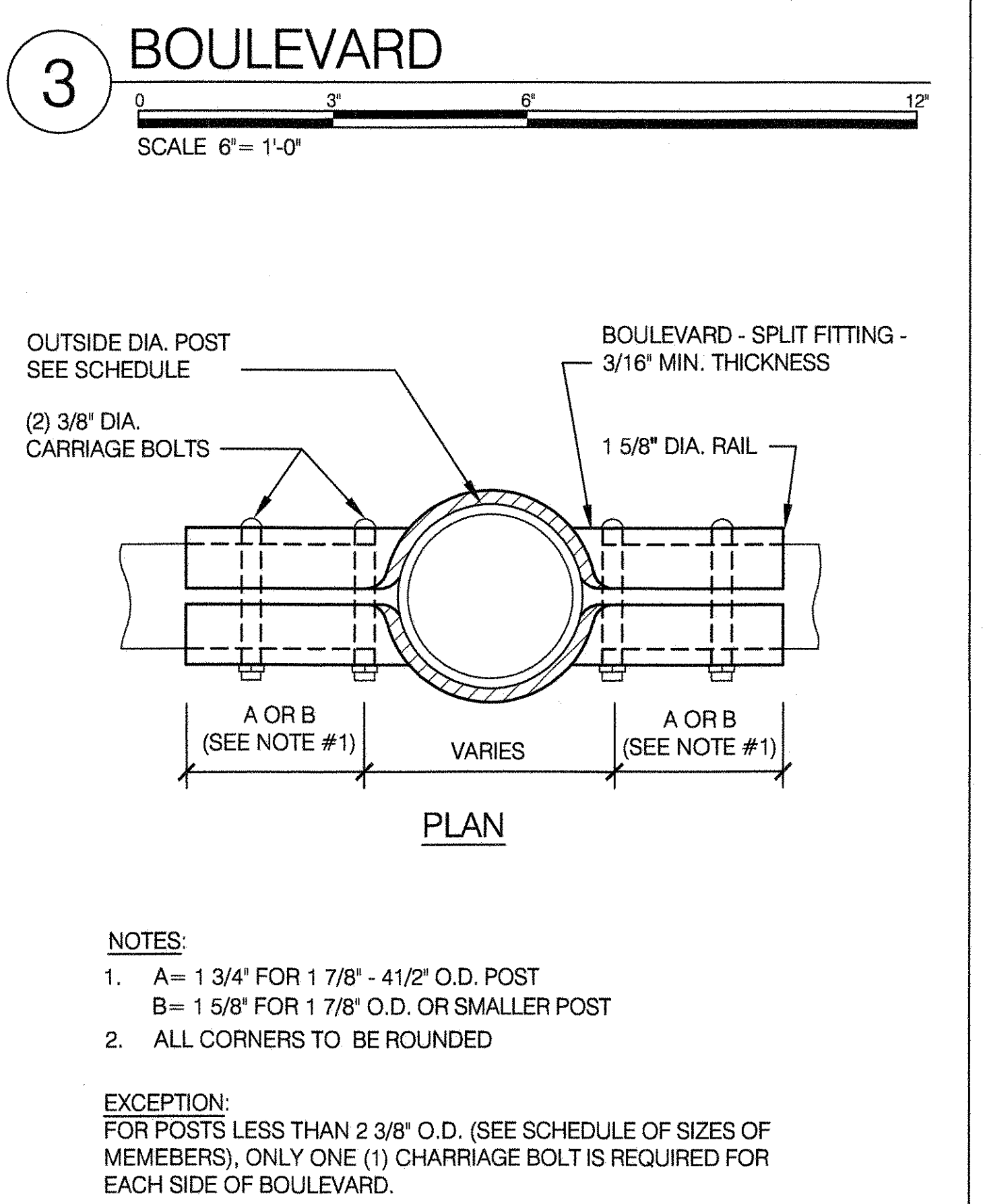
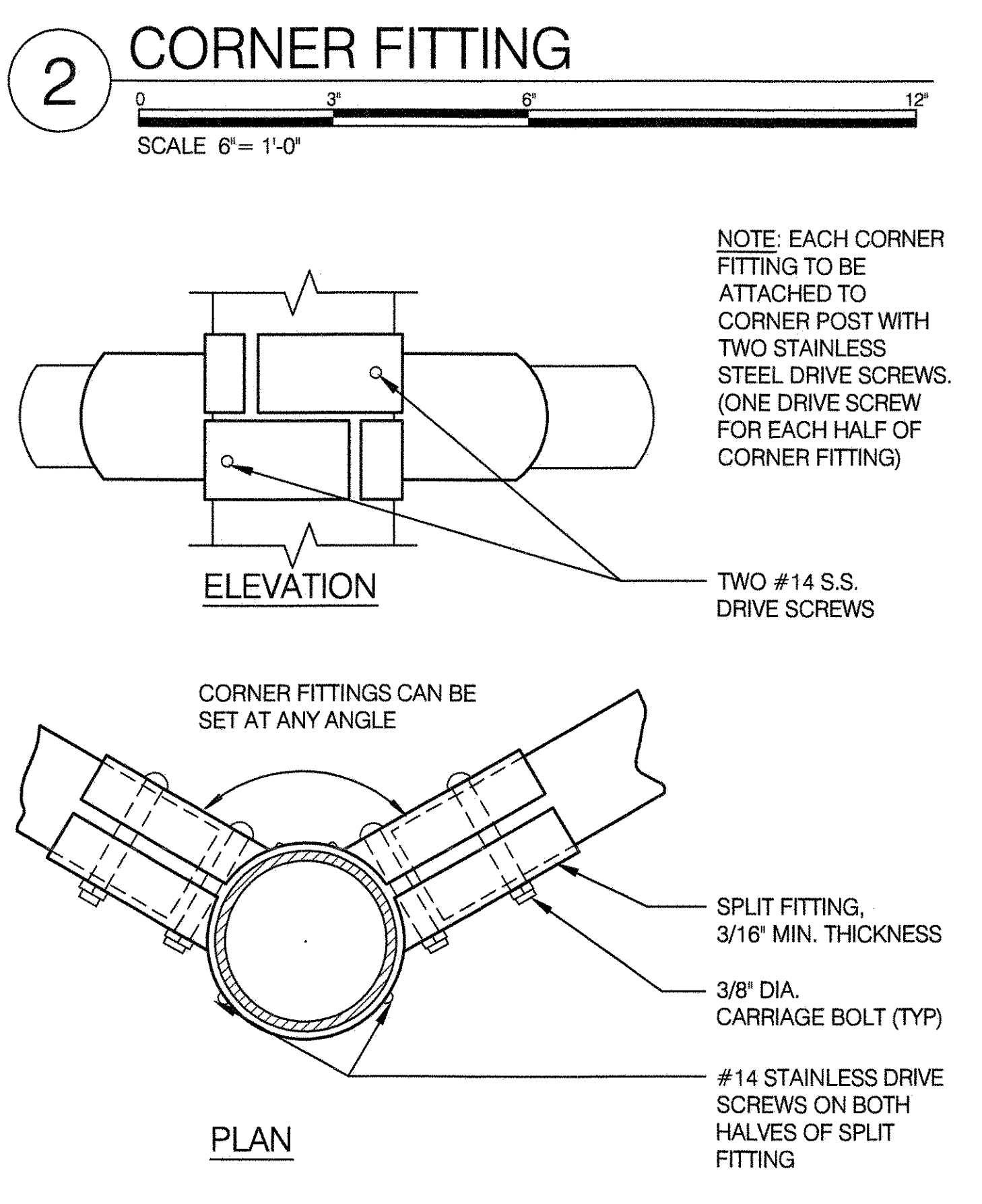
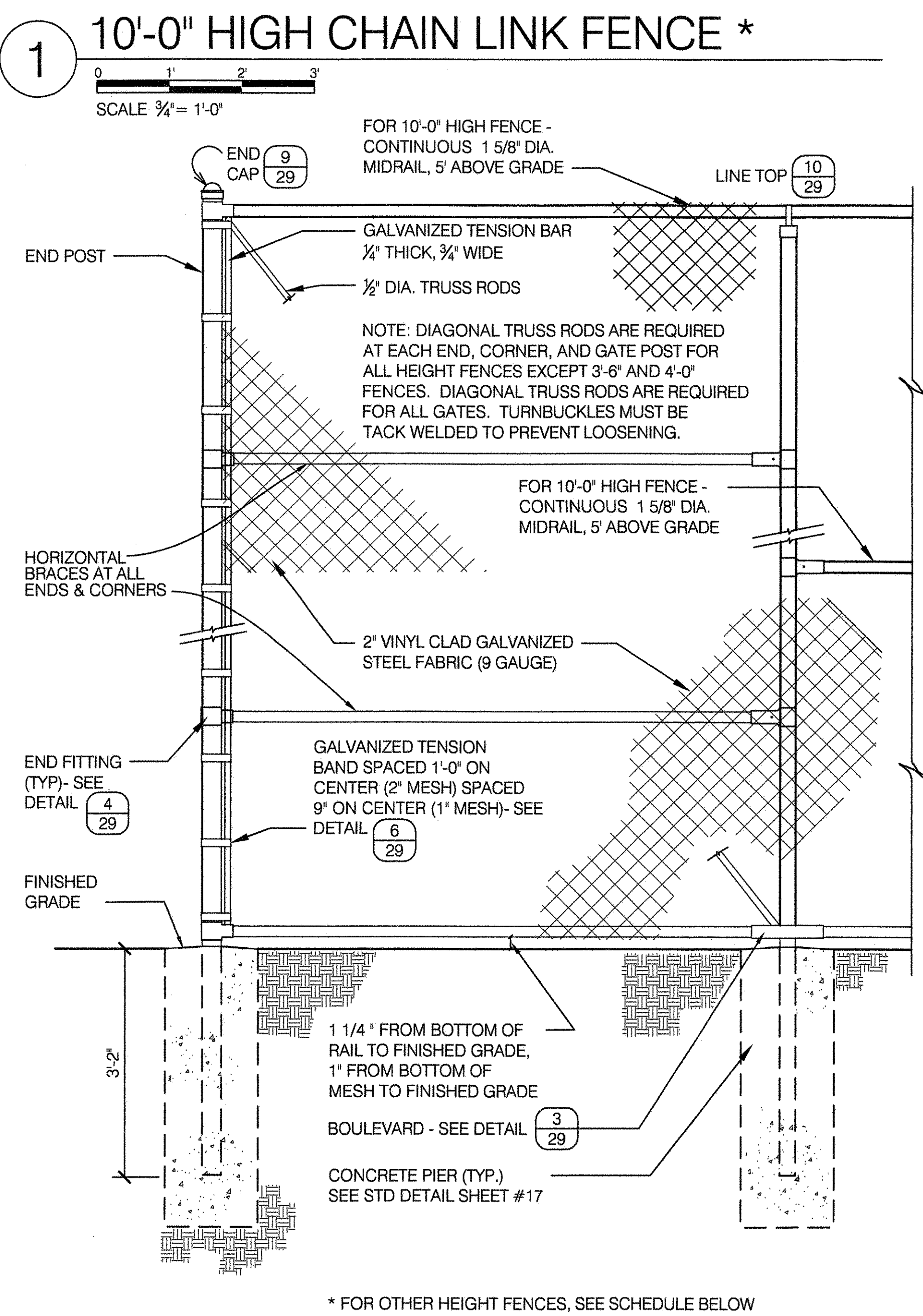
- NOTES:**
- BENCH STANDARDS AND ARMS TO BE OF CAST DUCTILE IRON. SEE SPECIFICATIONS FOR FINISH.
 - ALL FASTENERS SUCH AS BOLTS, NUTS, WASHERS AND SCREWS TO BE OF VANDAL-PROOF STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL.
 - COLOR OF STEEL CHANNEL AND STEEL SUPPORT SHALL MATCH COLOR OF BENCH STANDARDS.

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 DRAWING TITLE
BENCH, 1964 WORLD'S FAIR

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APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA/146-R10
DATE 09-01-2020	SHEET NO. 27
	SCALE AS SHOWN



BOLT AND FABRIC NOTES

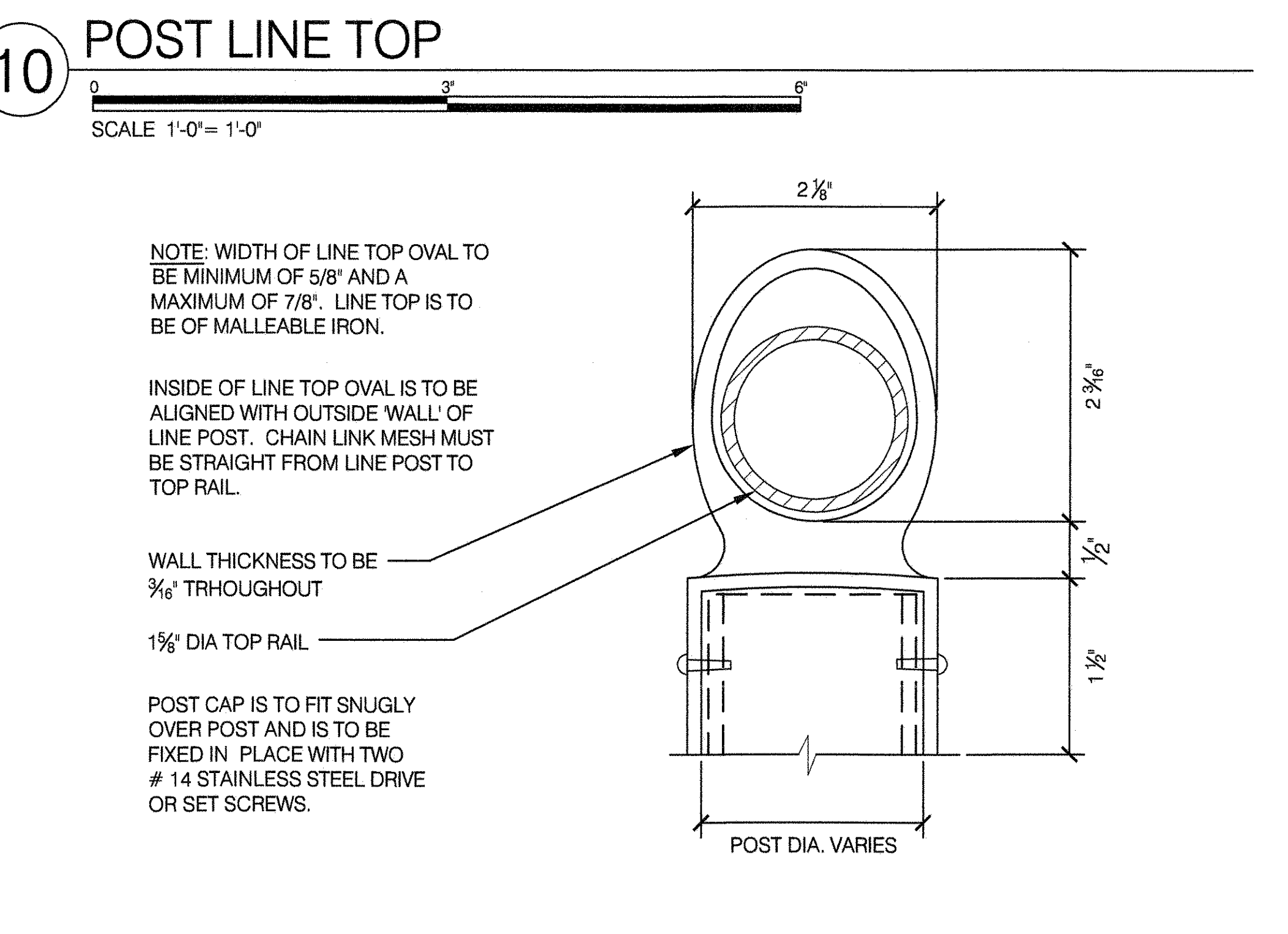
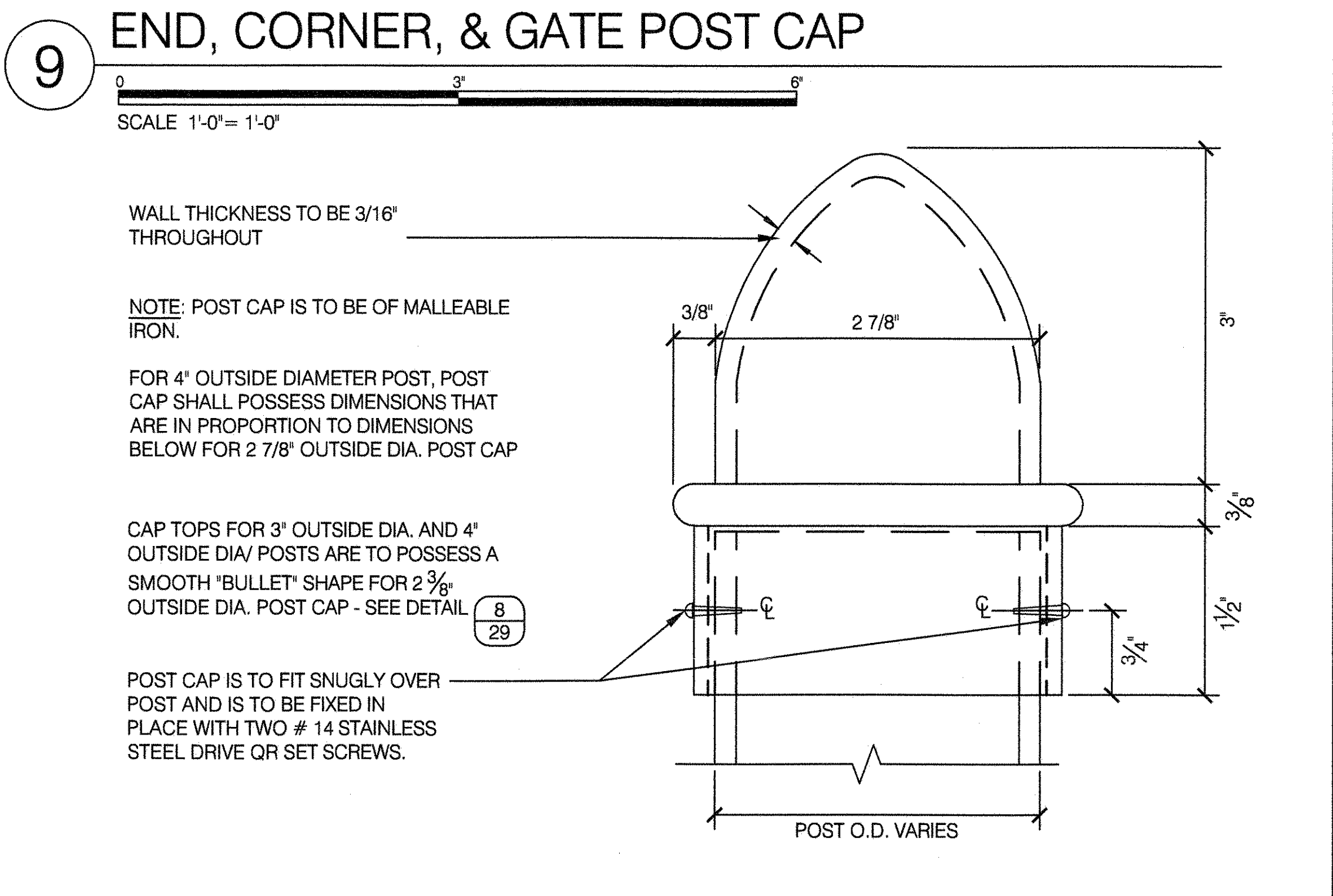
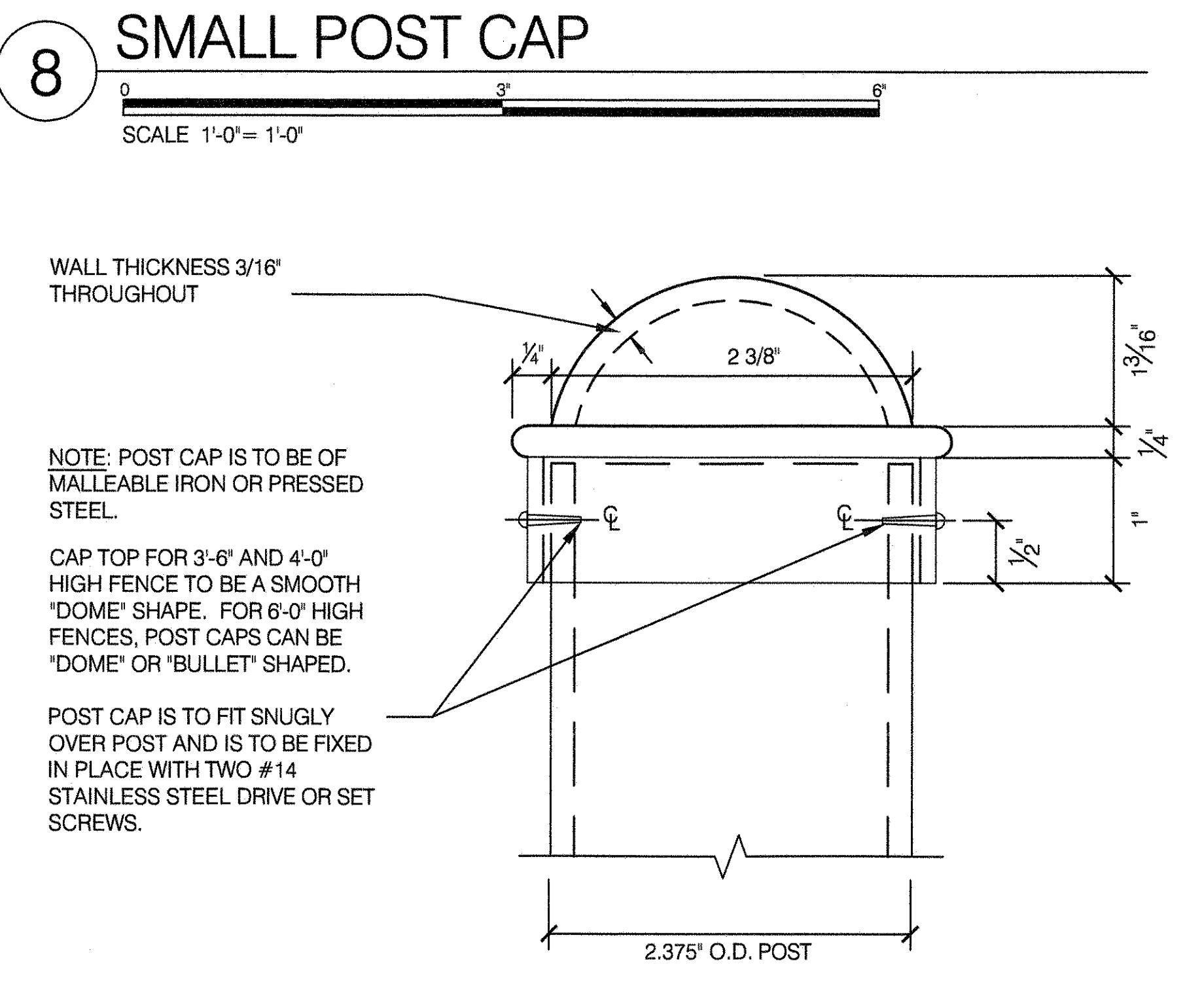
PEEN END OF ALL BOLTS.

BOLTS WHICH ARE INSTALLED 6" OR LESS ABOVE GRADE SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND THE NUT AFTER TIGHTENING. ALL ROUGH EDGES SHALL BE FILED SMOOTH TO THE SATISFACTION OF THE ENGINEER.

ON FENCES OVER 12 FEET HIGH WHERE THE TWO WIDTHS OF FABRIC ARE REQUIRED, THE BOTTOM PIECE SHALL BE KNUCKLED TOP AND BOTTOM AND THE TOP PIECE KNUCKLED AT BOTTOM AND BARBED AT TOP.

THE TWO PIECES SHALL BE SPLICED IN SUCH A WAY AS TO GIVE A FINISHED NEAT APPEARANCE.

FABRIC TO BE KNUCKLED AT TOP AND BOTTOM RAILS ON FENCES UP TO AND INCLUDING 6'-0" HIGH AND BARBED AT TOP RAIL ON FENCES OVER 6'-0" HIGH.



WIRE FABRIC NOTES

THE MESH SHALL BE PLACED ON THE OUTSIDE OF THE POSTS OF ALL EXTERIOR CHAINLINK FENCES INCLUDING HOODED BACKSTOPS AND HANDBALL COURT FENCES WHERE THESE ARE AN INTEGRAL PART OF THE EXTERIOR FENCE.

WHERE HOODED BACKSTOPS, HANDBALL COURT FENCES, AND SKATEPARKS ARE IN INTERIOR AREAS, THE MESH SHALL BE PLACED ON THE INSIDE OF THE POSTS.

SCHEDULE OF SIZES OF MEMBERS*

HEIGHT OF FENCE	DIAMETER OF LINE POSTS*	POST SPACING MAX.	CORNER & END POST	TOP RAIL	MID RAILS	BOTTOM RAIL	DEPTH OF POST INTO CURB AND FTG AT:		HORIZONTAL BRACES AT CORNER & END POST	DIAGONAL BRACES
							LINE POST	END/CORNER/GATE POST		
3'-6" & 4'-0"	1 7/8"	6'-0"	2 3/8"	1 5/8"	0	1 5/8"	1'-0"	1'-6"	0	0
6'-0"	1 7/8"	6'-0"	2 3/8"	1 5/8"	0	1 5/8"	1'-8"	2'-0"	0	1/2" DIA.
8'-0"	2 3/8"	8'-0"	2 7/8"	1 5/8"	0	1 5/8"	1'-8"	2'-0"	1 AT 1 5/8"	1/2" DIA.
10'-0"	2 7/8"	10'-0"	4"	1 5/8"	(1)-1 5/8"	1 5/8"	3'-2"	3'-2"	2 AT 1 5/8"	1/2" DIA.
12'-0"	2 7/8"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
14'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
16'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
18'-0"	3 1/2"	10'-0"	4"	1 5/8"	(2)-1 5/8"	1 5/8"	3'-2"	4'-2"	2 AT 1 5/8"	1/2" DIA.
20'-0"	4 1/2"	10'-0"	4 1/2"	1 5/8"	(3)-1 5/8"	1 5/8"	4'-2"	4'-6"	3 AT 1 5/8"	1/2" DIA.

*ALL PIPE DIAMETERS ARE TRADE SIZE DIAMETERS AS SPECIFIED IN ASTM F1043, TABLE 1. SEE "PIPE THICKNESS CHARTS" FOR ACTUAL O.D. AND THICKNESS OF PIPE.

FABRIC WIDTHS

HEIGHT OF FENCE	WIDTH OF BOTTOM FABRIC	WIDTH OF TOP FABRIC
3'-6" - 4'-0"	3'-6" - 4'-0"	0
6'-0"	6'-0"	0
8'-0"	8'-0"	0
10'-0"	10'-0"	0
12'-0"	10'-0"	4'-0"
14'-0"	10'-0"	4'-0"
16'-0"	10'-0"	6'-0"
18'-0"	10'-0"	8'-0"
20'-0"	10'-0"	10'-0"

PIPE THICKNESS CHARTS

SS-40				
TRADE SIZE DIAMETER	ACTUAL O.D. SIZE	ACTUAL I.D. SIZE	PIPE WALL THICKNESS	WEIGHT (LBS/FOOT)
1 5/8"	1.660	1.438	0.111	1.84
1 7/8"	1.900	1.660	0.120	2.28
2 3/8"	2.375	2.115	0.130	3.12
2 7/8"	2.875	2.555	0.160	4.64
3 1/2"	3.500	3.180	0.160	5.71
4"	4.000	3.680	0.160	6.56

SCHEDULE 40				
TRADE SIZE DIAMETER	ACTUAL O.D. SIZE	ACTUAL I.D. SIZE	PIPE WALL THICKNESS	WEIGHT (LBS/FOOT)
1 5/8"	1.660	1.380	0.140	2.27
1 7/8"	1.900	1.610	0.145	2.72
2 3/8"	2.375	2.067	0.154	3.65
2 7/8"	2.875	2.469	0.203	5.79
3 1/2"	3.500	3.068	0.216	7.58
4"	4.000	3.548	0.226	9.11

POST & RAIL NOTES

FENCE POSTS AND RAILS SHALL BE EITHER TYPE I OR TYPE II:

TYPE I - ROUND MEMBERS SHALL BE HOT DIPPED GALVANIZED CONFORMING TO ASTM F1083 STANDARD WEIGHT SCHEDULE 40.

TYPE II - ROUND MEMBERS SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1011/A1011M COLD ROLLED WELDED AND HAVE TENSILE STRENGTH OF 50,000 PSI AND GIVEN CORROSION PROTECTION PER ASTM F1043 TYPE B FOR EXTERNAL COATING AND TYPE D FOR INTERNAL COATING, SUCH AS SS-40.

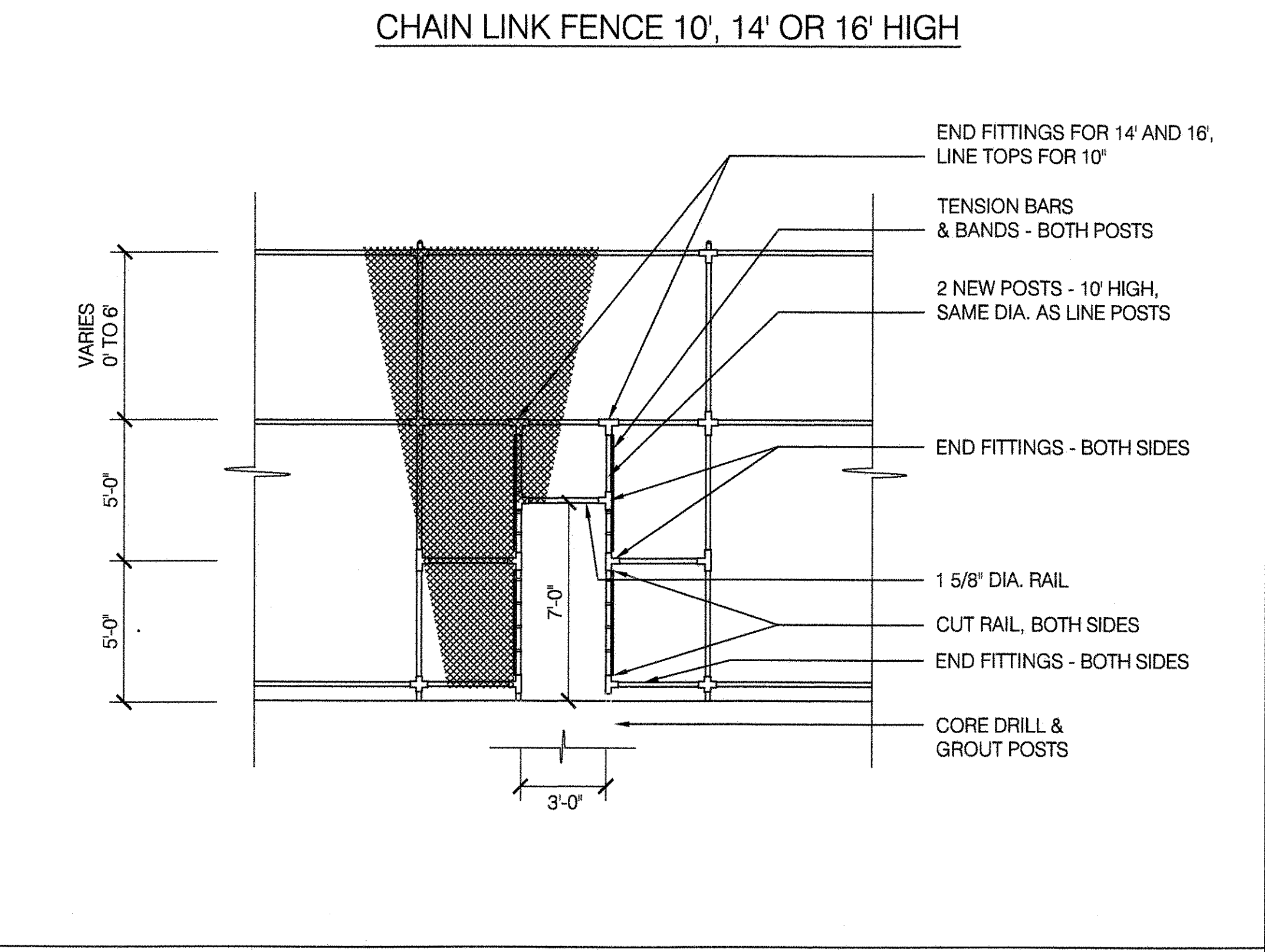
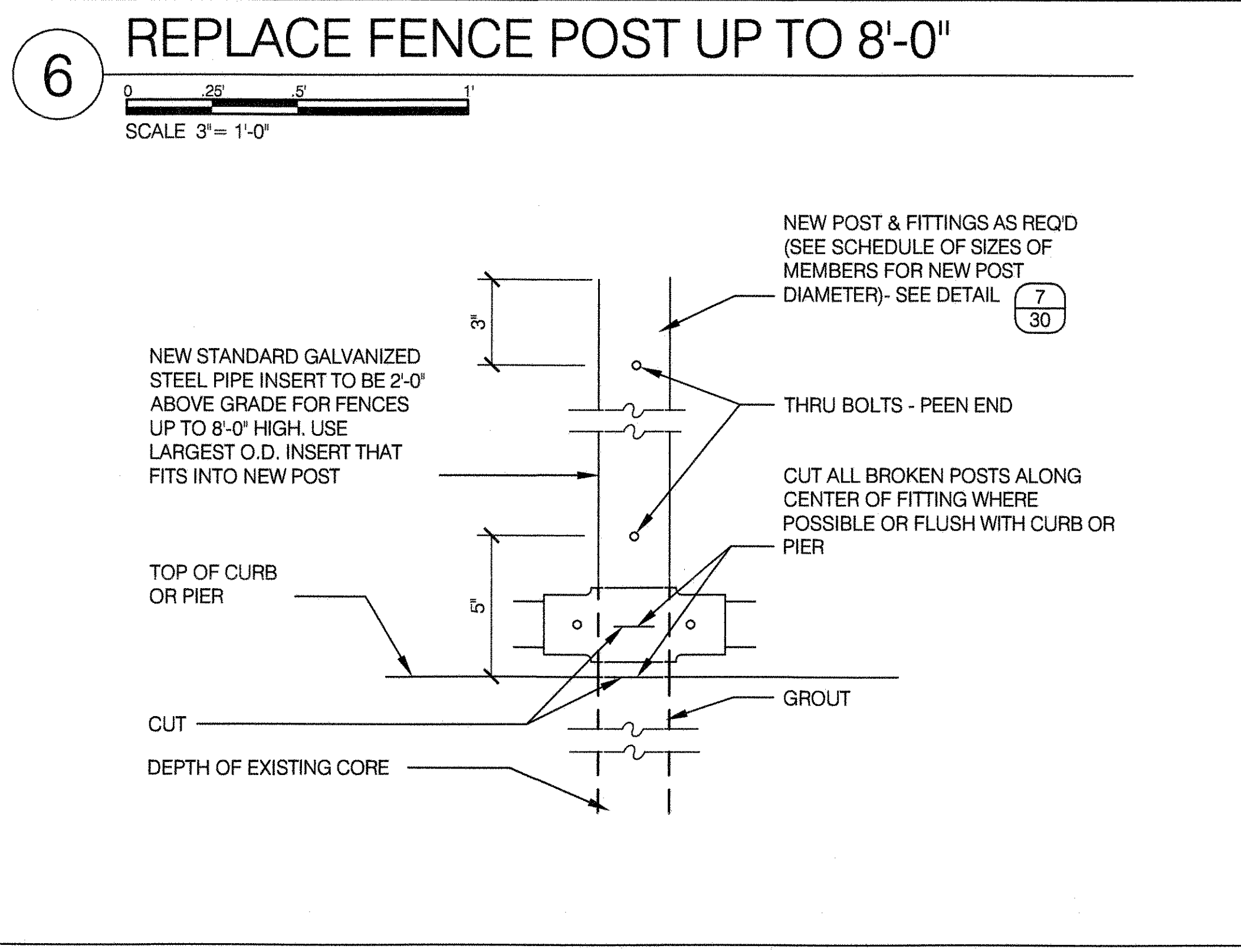
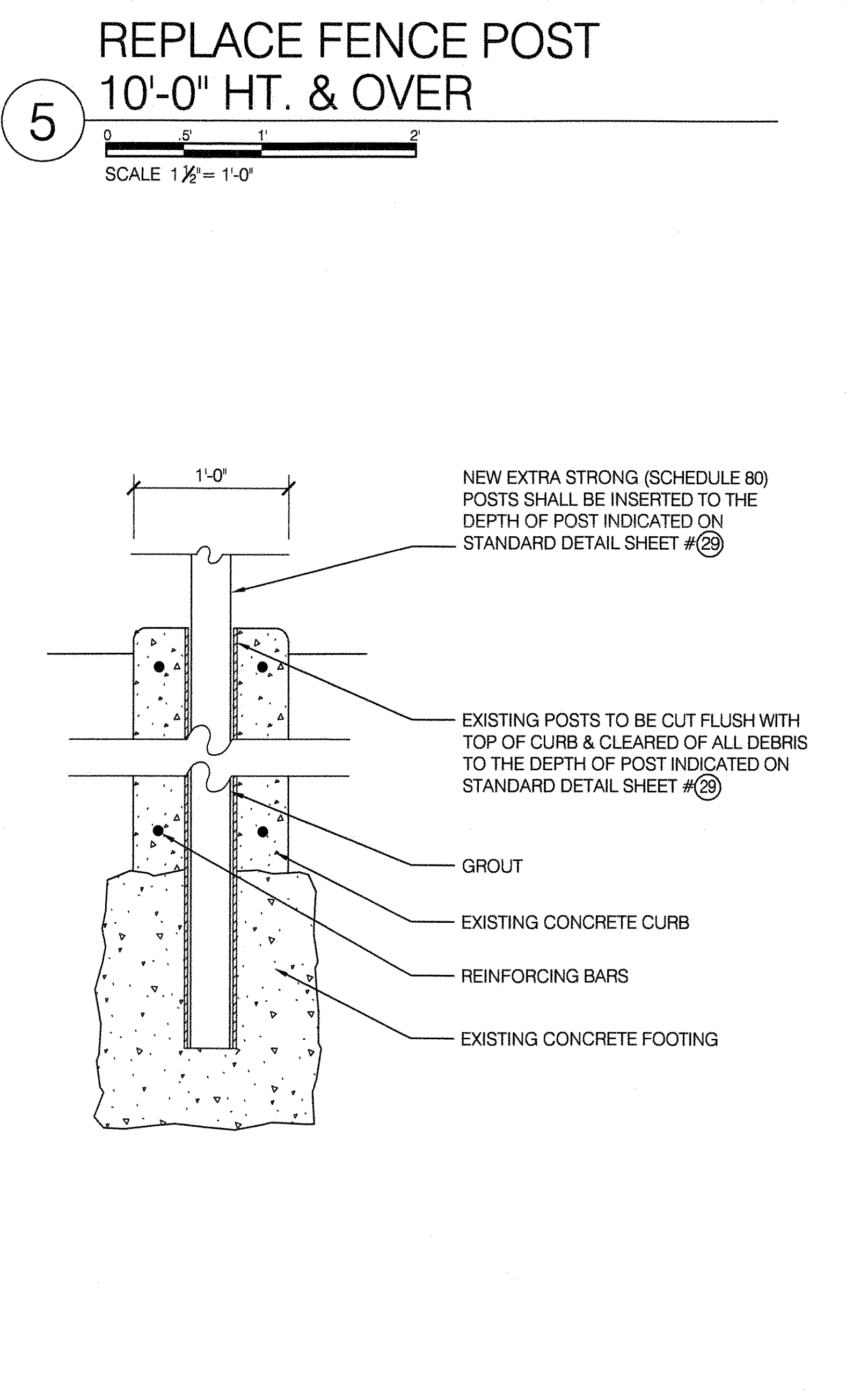
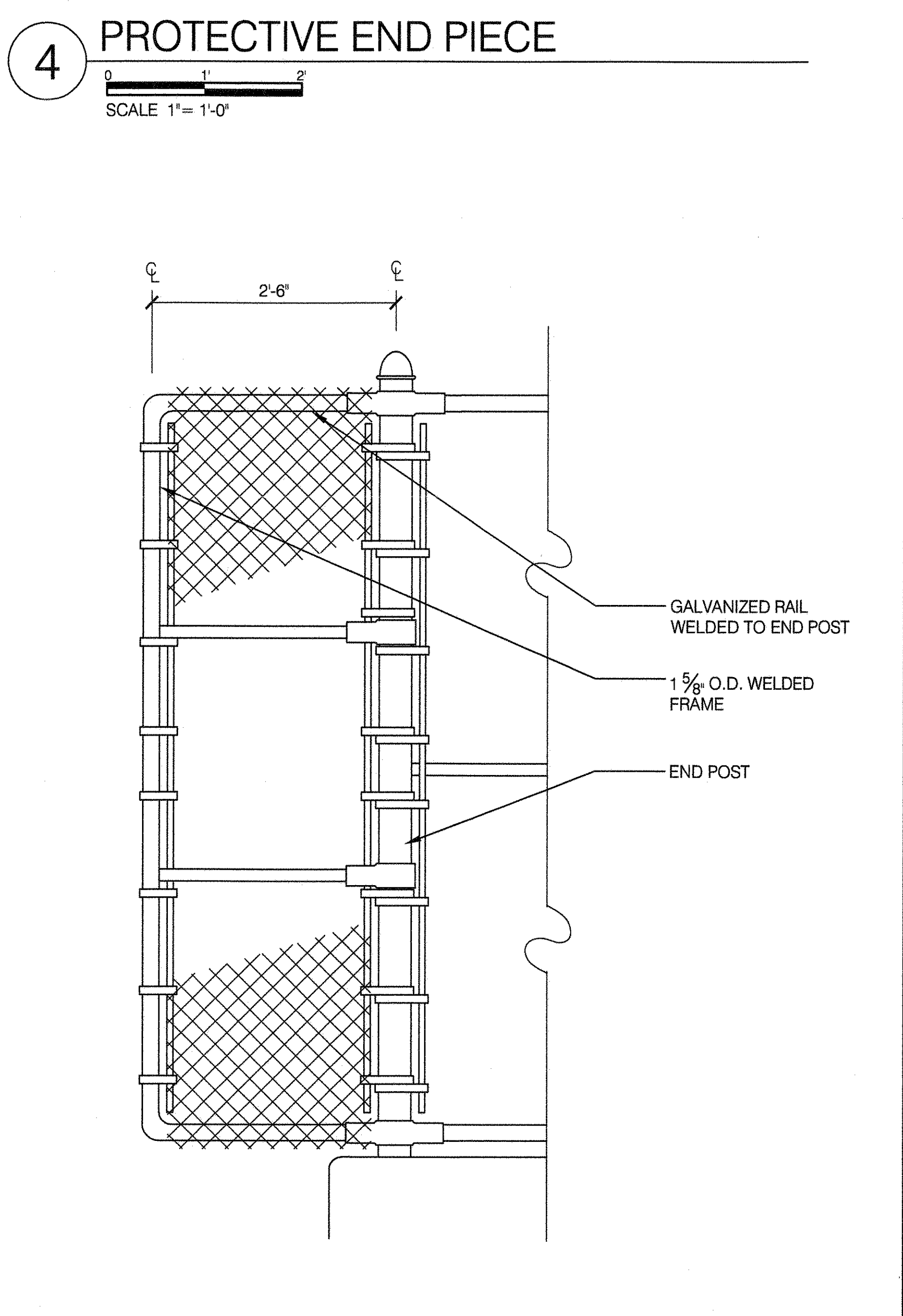
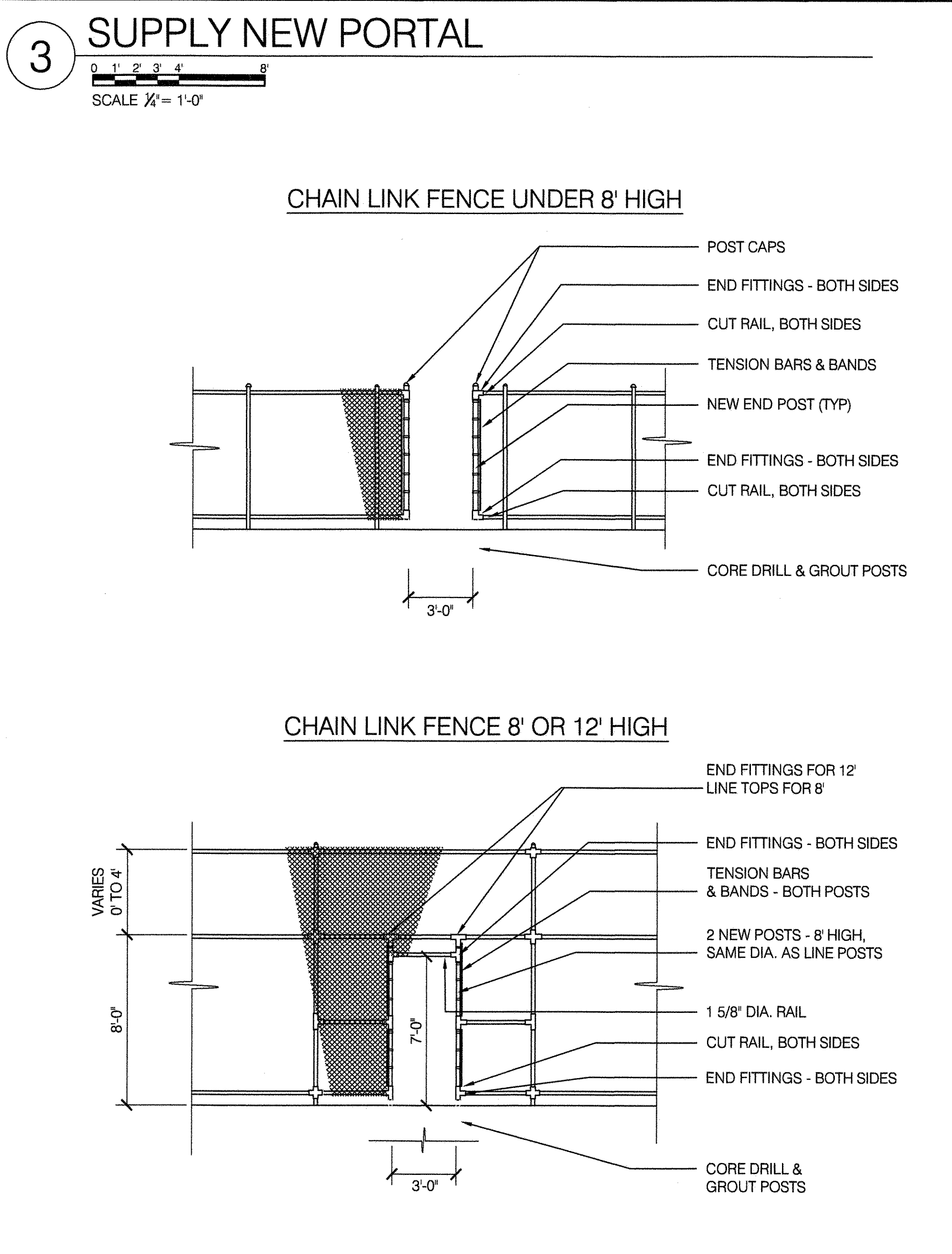
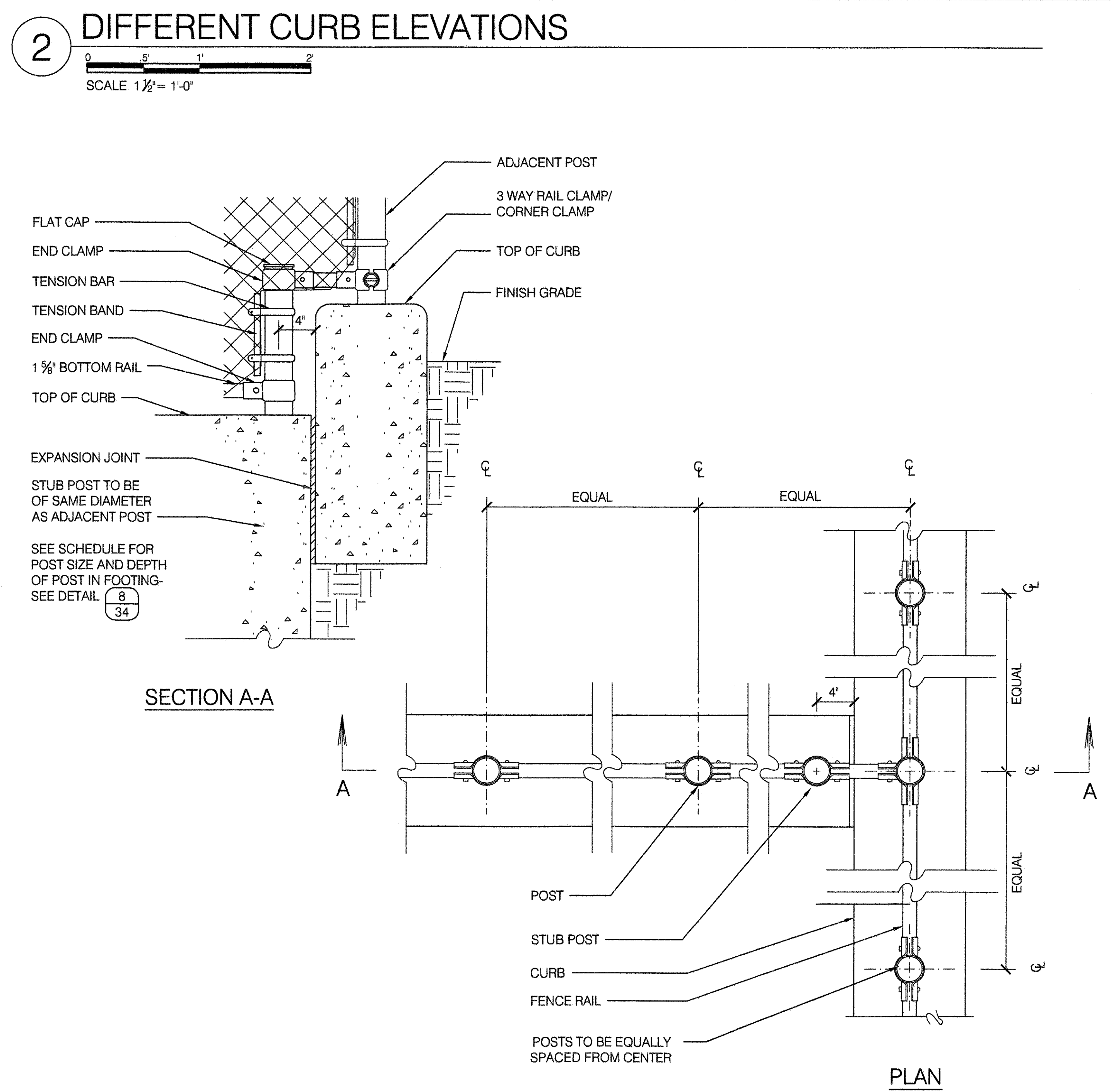
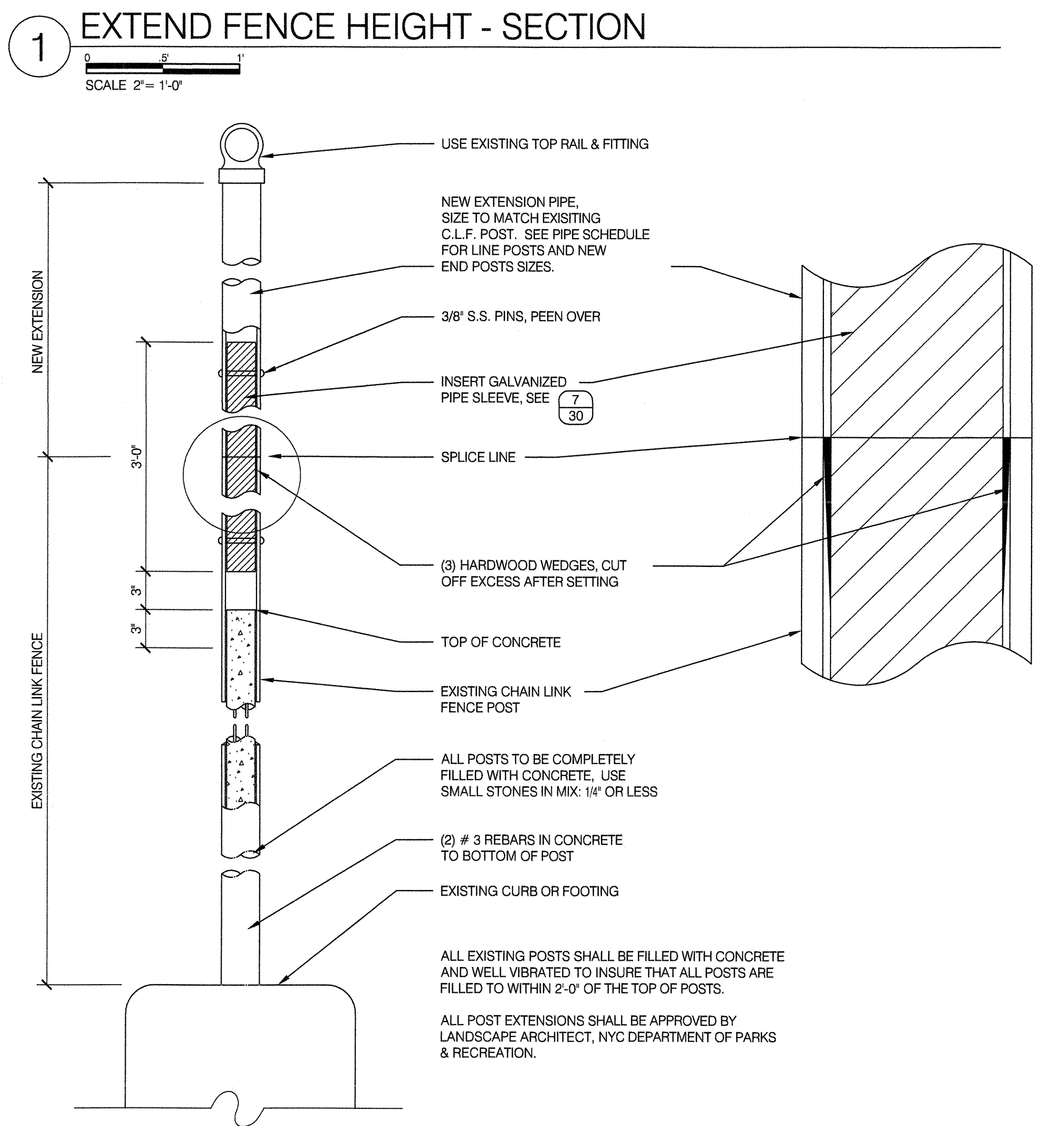
PROVIDE ADDITIONAL RAIL IN LOWER THIRD OF FENCE AT BASKETBALL BACKSTOPS, AT EACH END OF BASKETBALL COURTS AND ALL AROUND HANDBALL COURTS.

SEE STANDARD DETAIL SHEETS #44, #45 AND #48.

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DRAWING TITLE
CHAIN LINK FENCE - DETAILS

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APPROVED BY	STANDARD D.P.R. DETAIL TLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 29
DATE 09-01-2020	SCALE AS SHOWN



7 SCHEDULE FOR POST INSERTS

EXISTING POST DIAMETER	POST SIZE	1 7/8"	2 3/8"	2 7/8"	3 1/2"	4"
	ACTUAL O.D. PIPE SIZE	1.9"	2.375"	2.875"	3.5"	4"
ACTUAL I.D. PIPE SIZE	1.610"	2.067"	2.469"	3.068"	3.548"	
SLEEVE DIAMETER REQUIRED	POST SLEEVE SIZE	SLEEVE METHOD NOT POSSIBLE FOR 1 7/8" PIPE	1 7/8"	2 3/8"	2 7/8"	3 - 1/2"
	ACTUAL O.D. PIPE SLEEVE	1.9"	2.375"	2.875"	3.5"	

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DRAWING TITLE
CHAIN LINK FENCE - SPECIAL CONDITIONS

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 M. MERIC

CHECKED BY
 R. WEI, PE

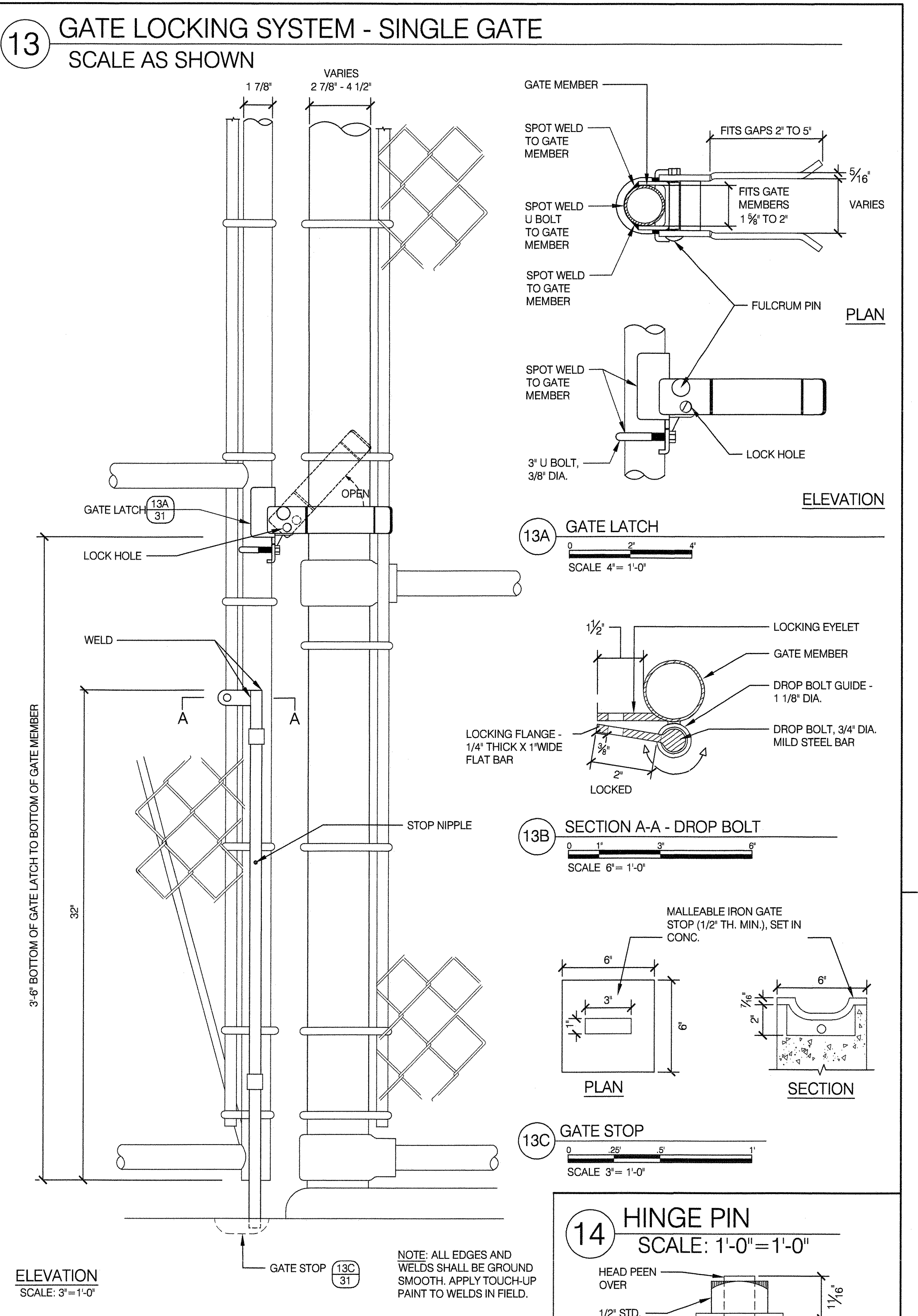
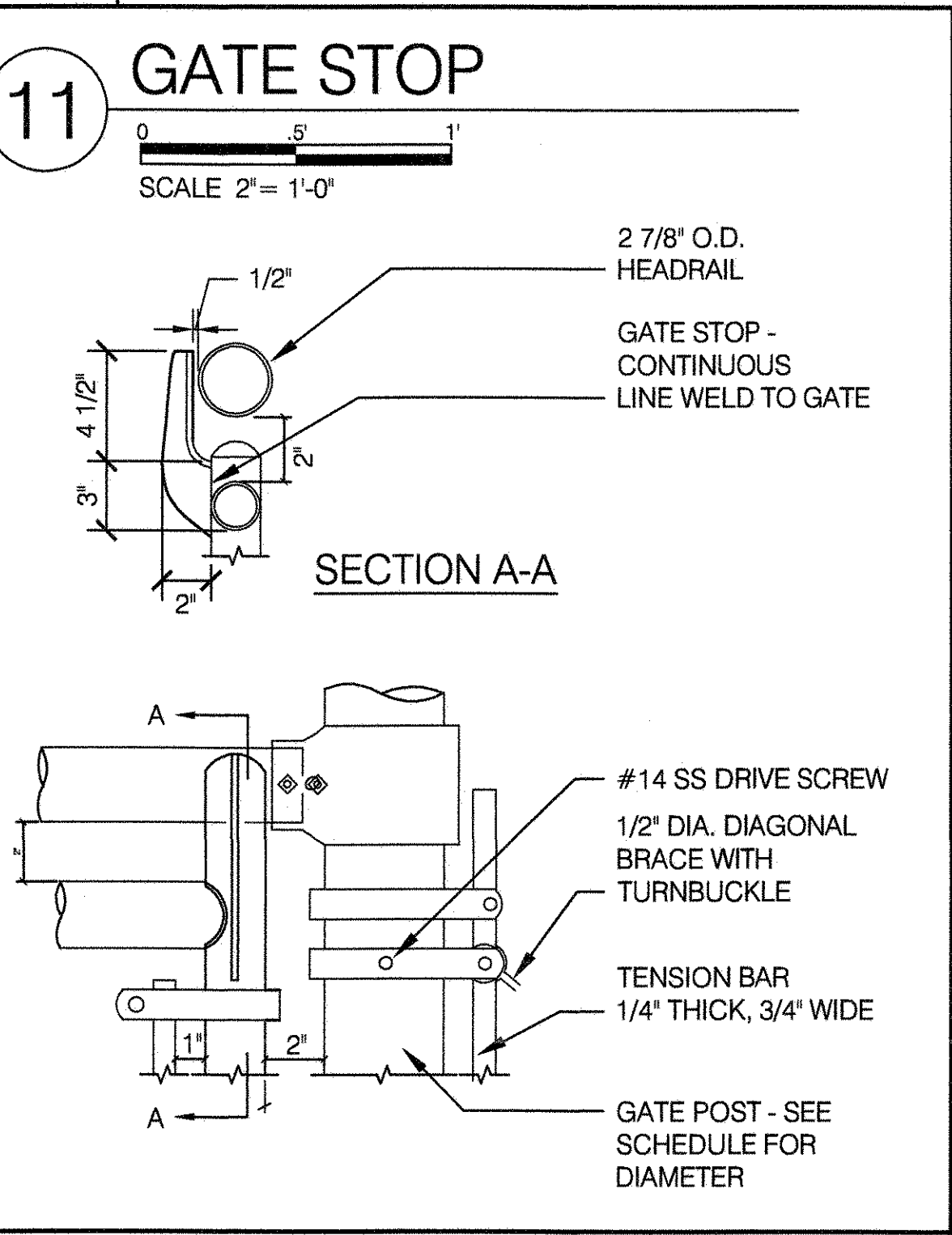
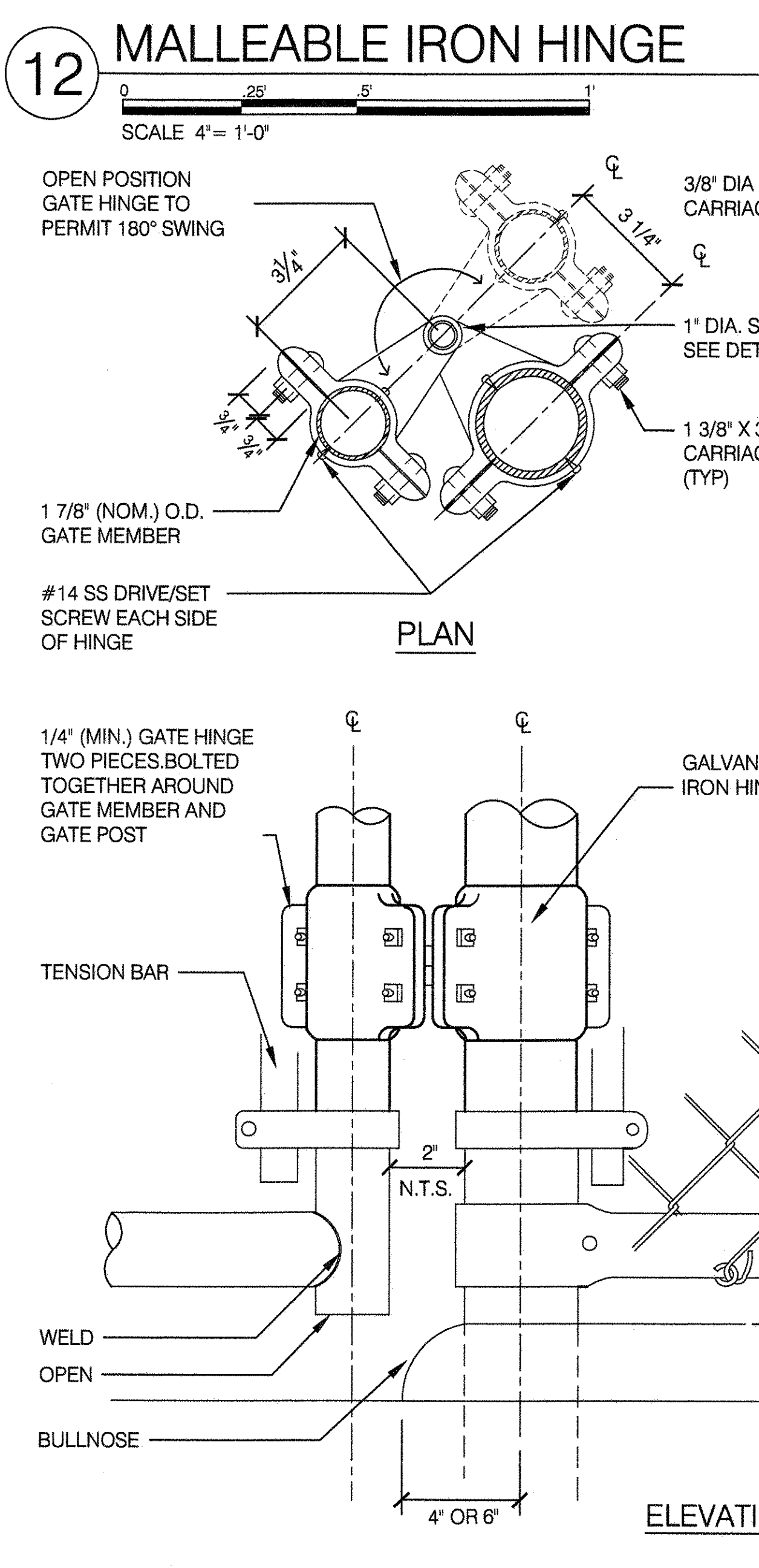
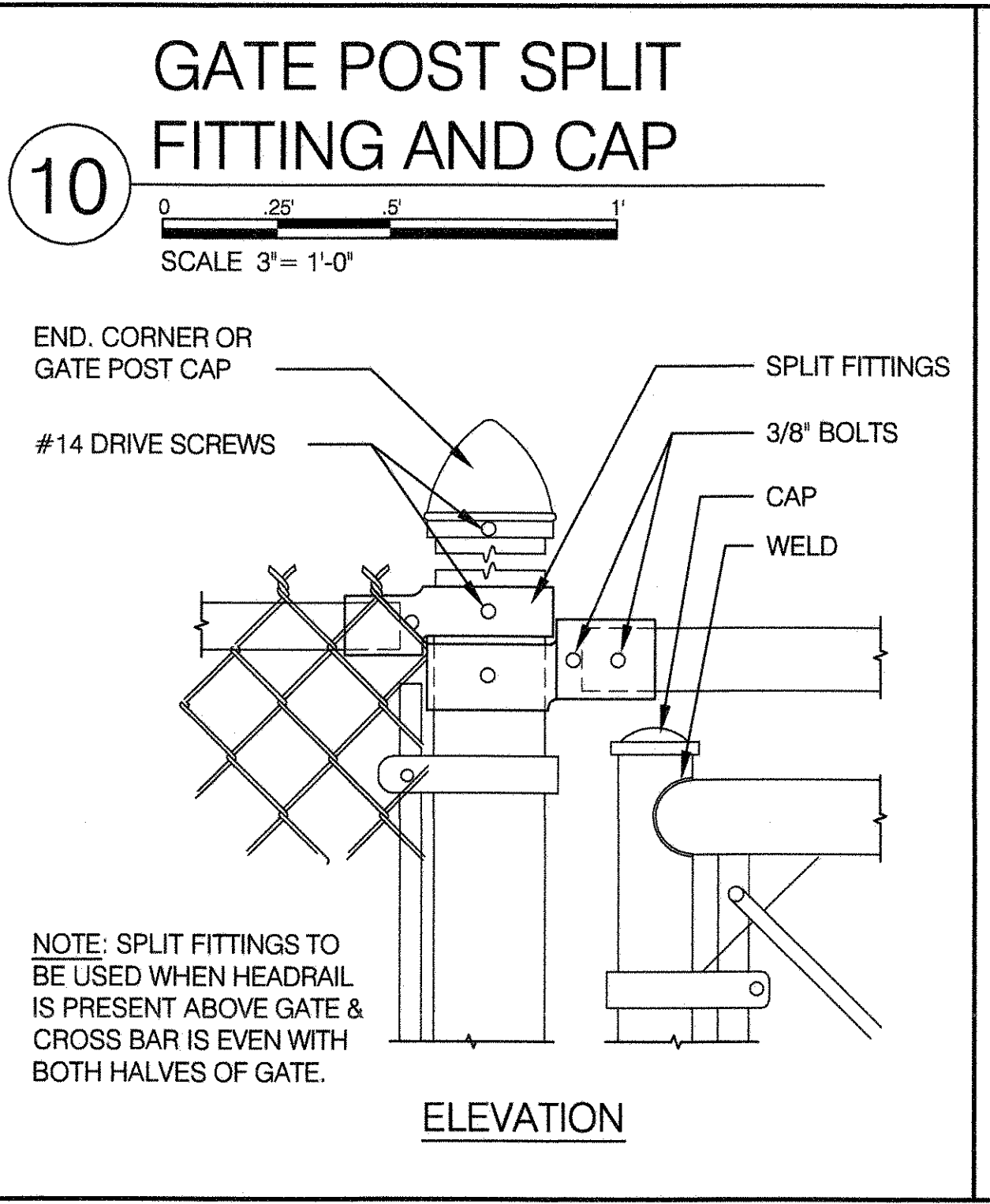
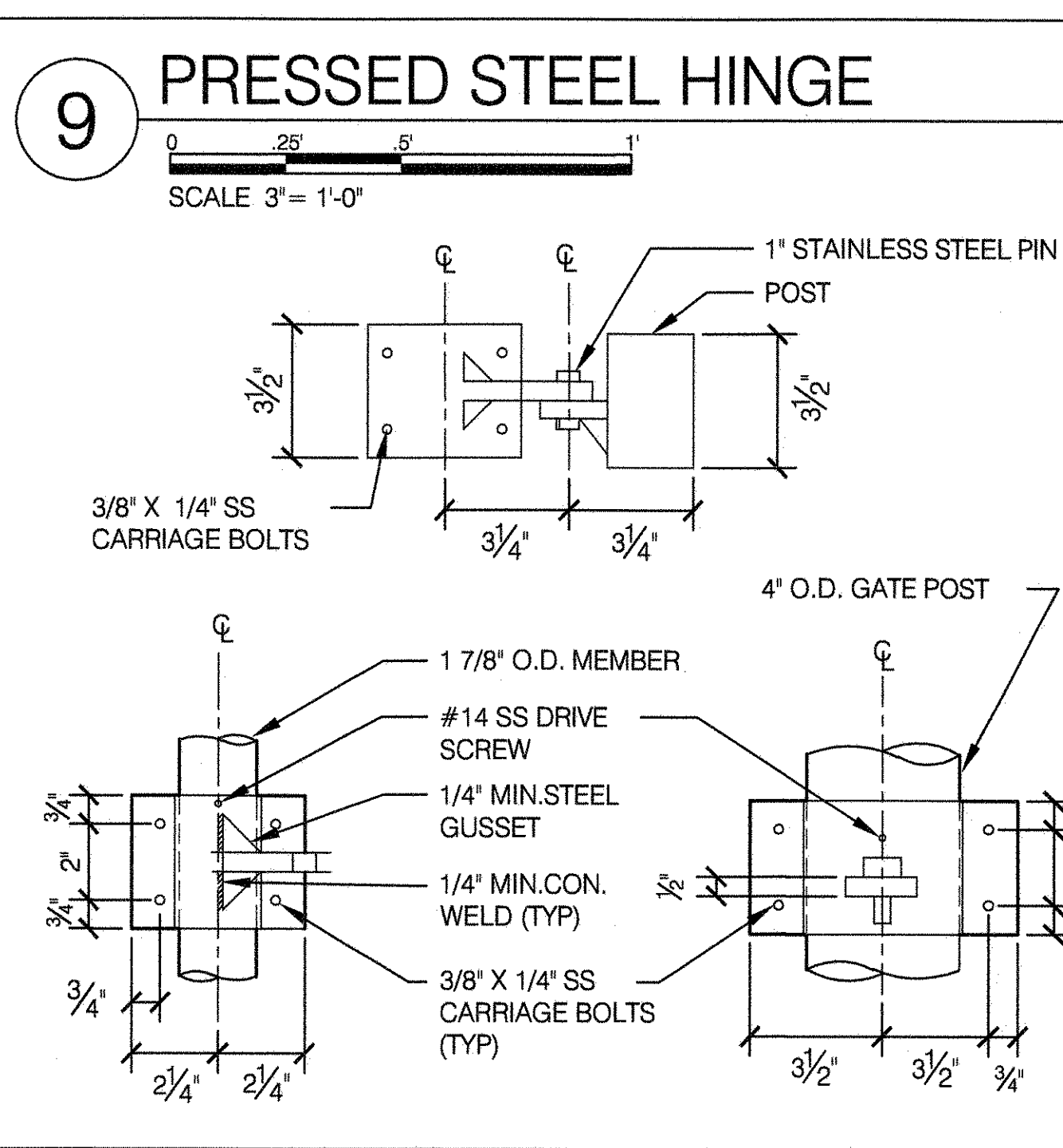
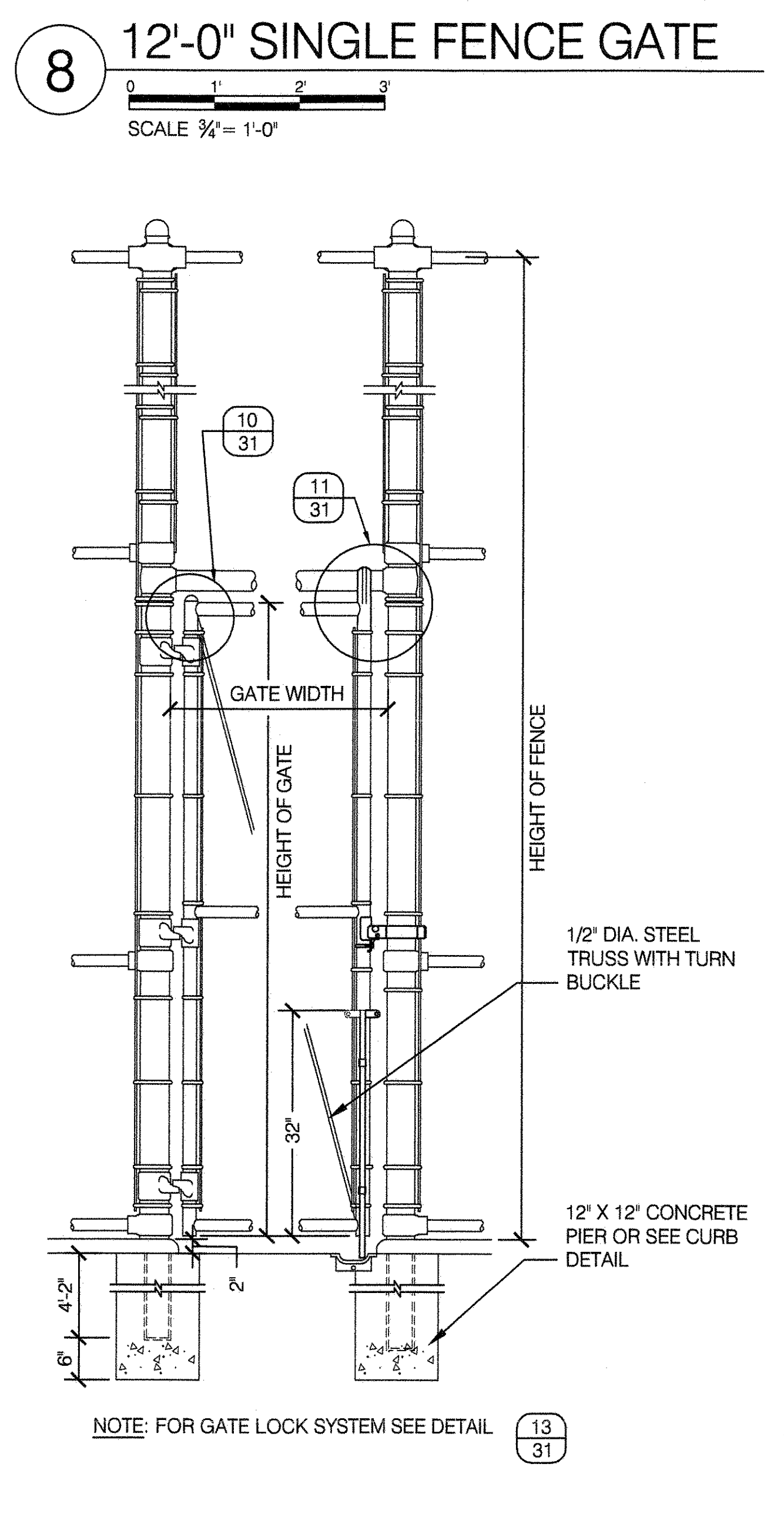
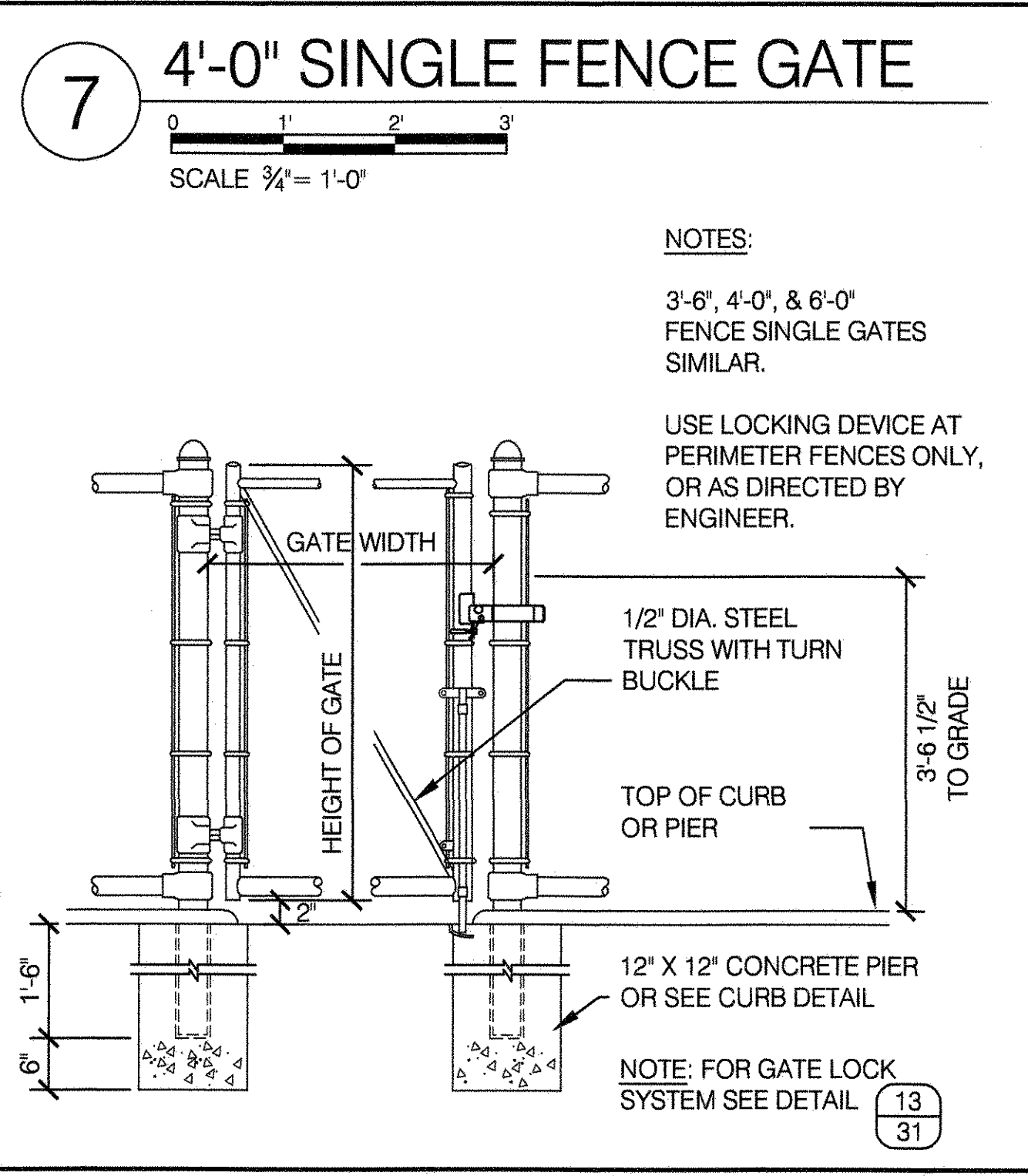
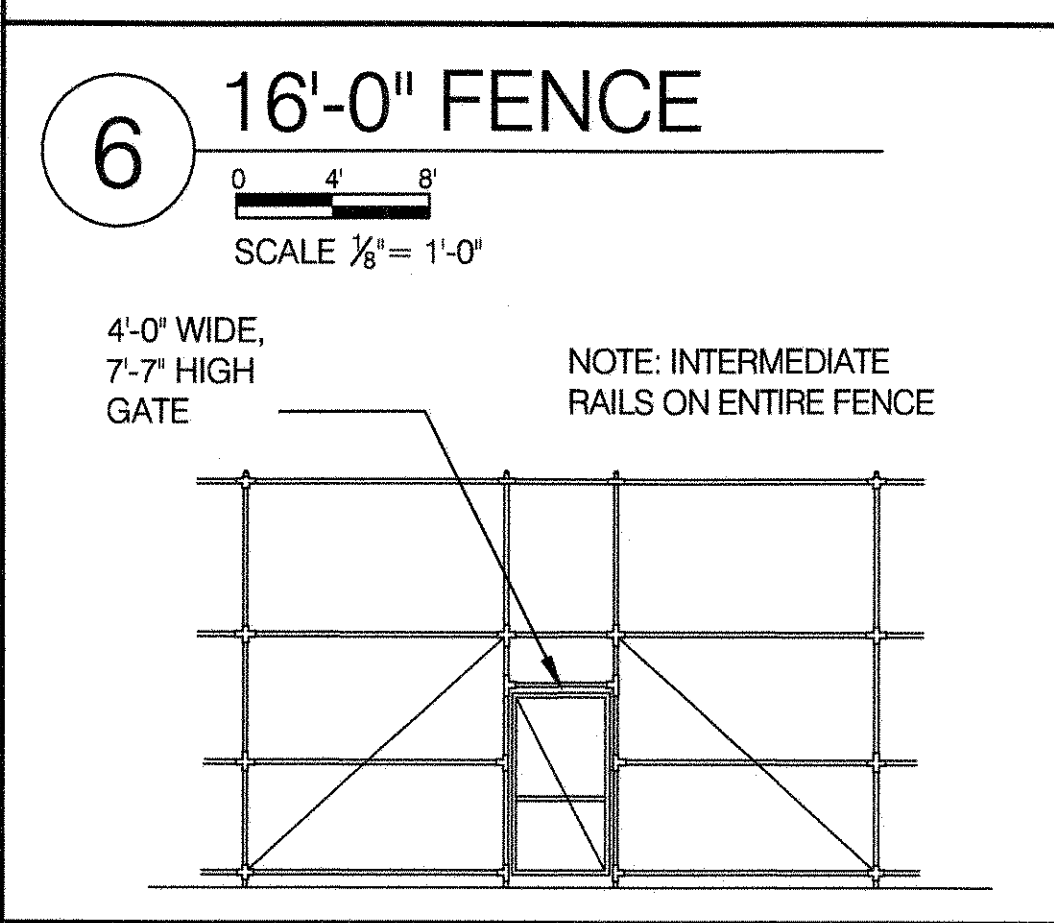
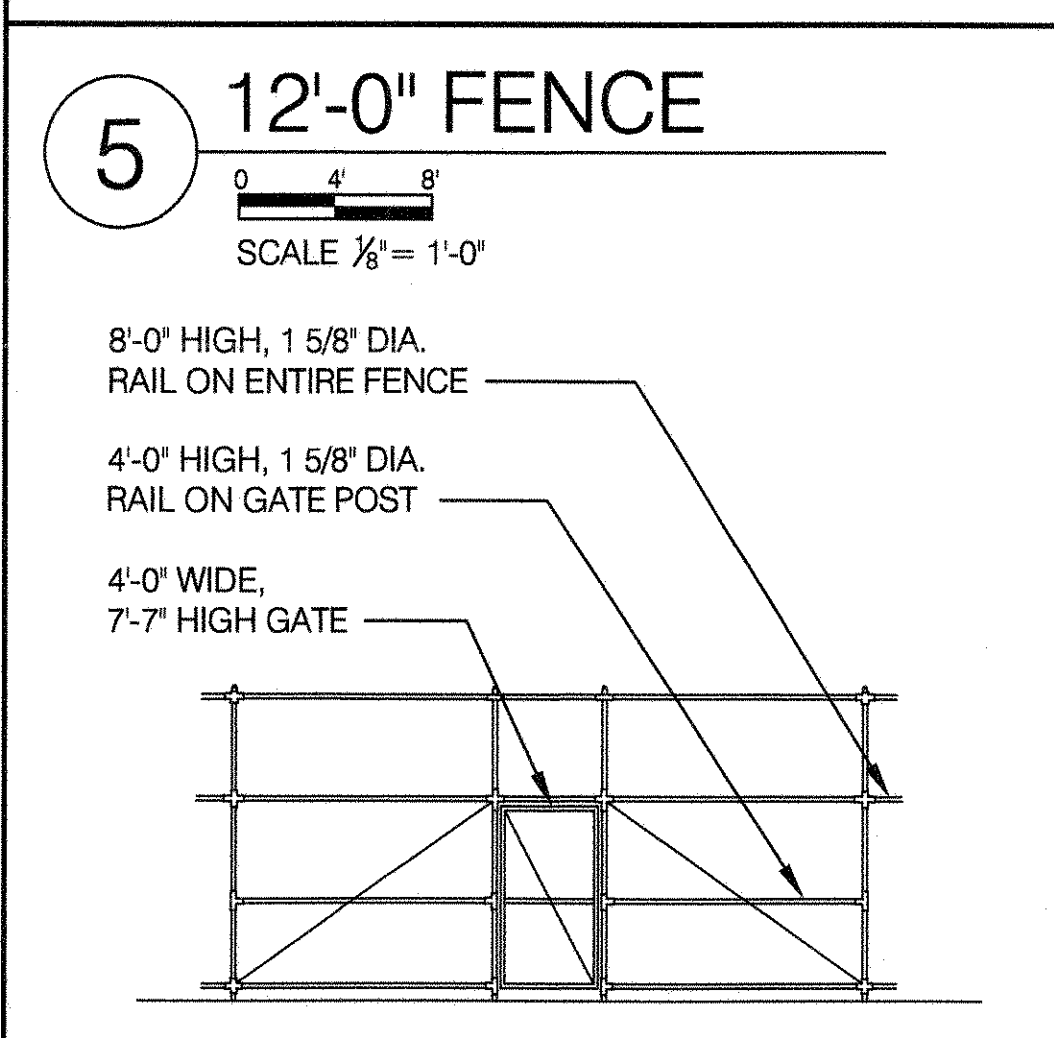
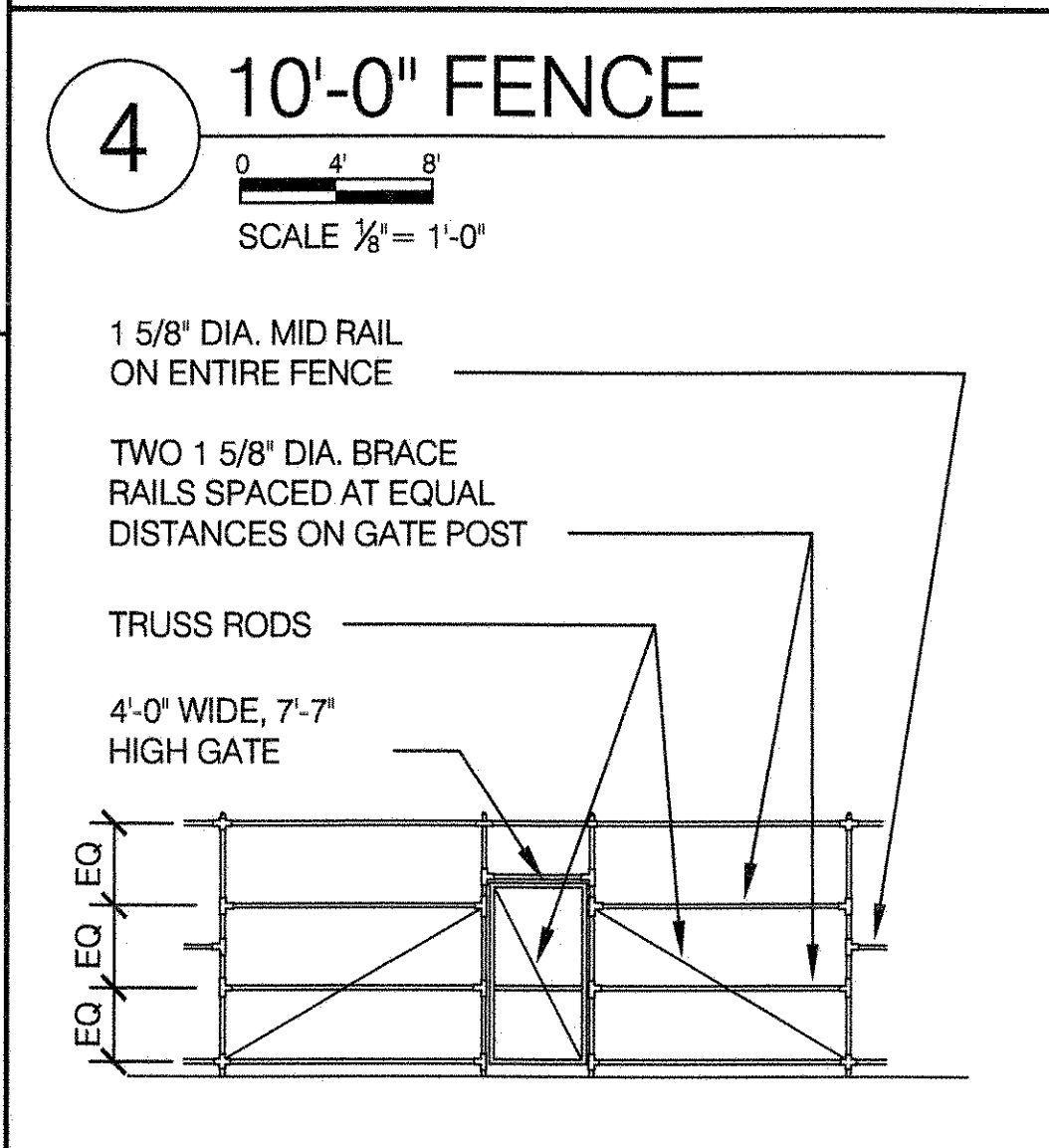
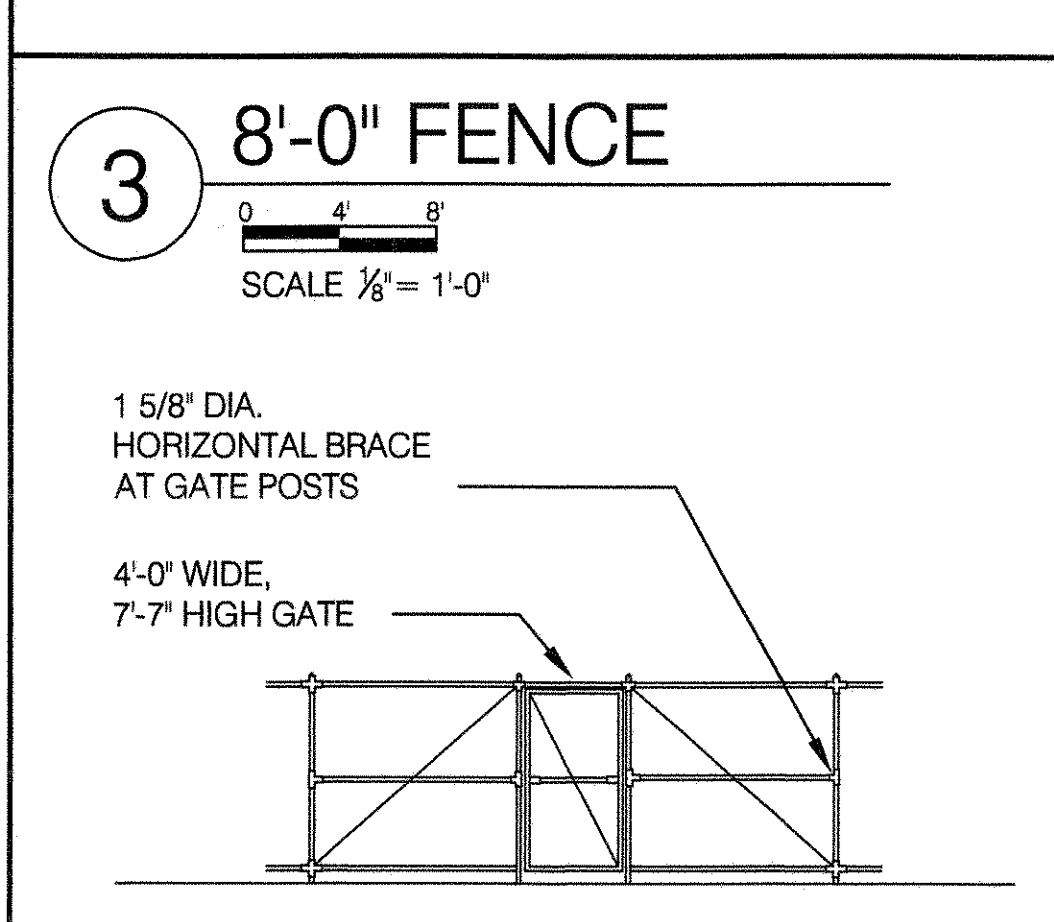
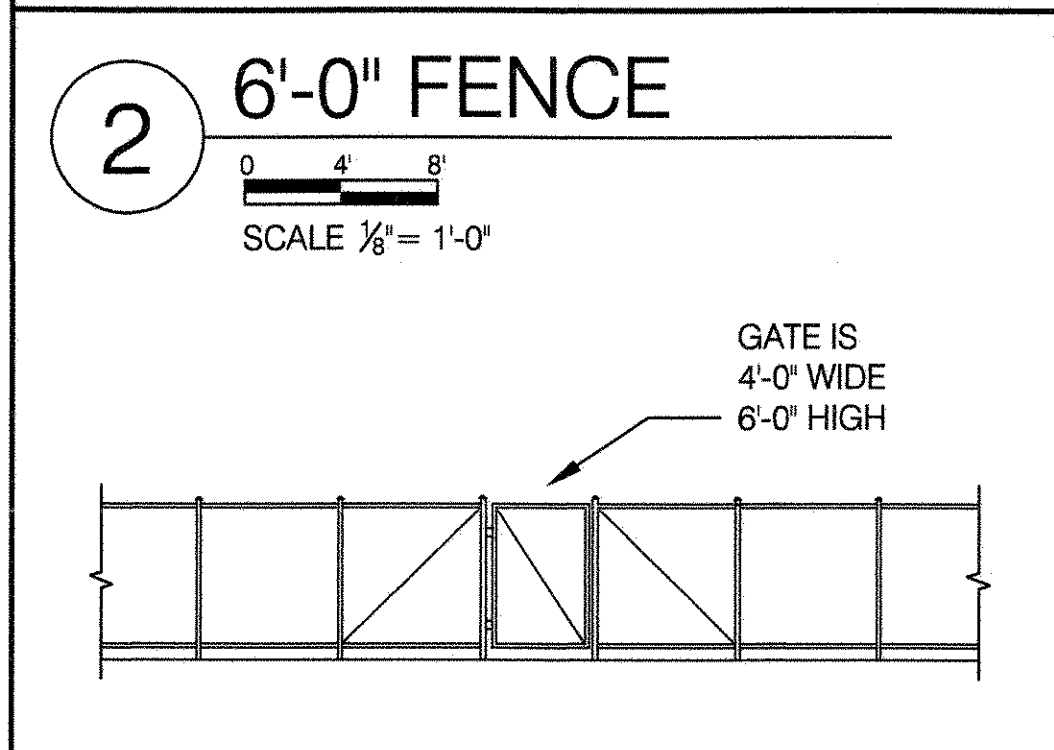
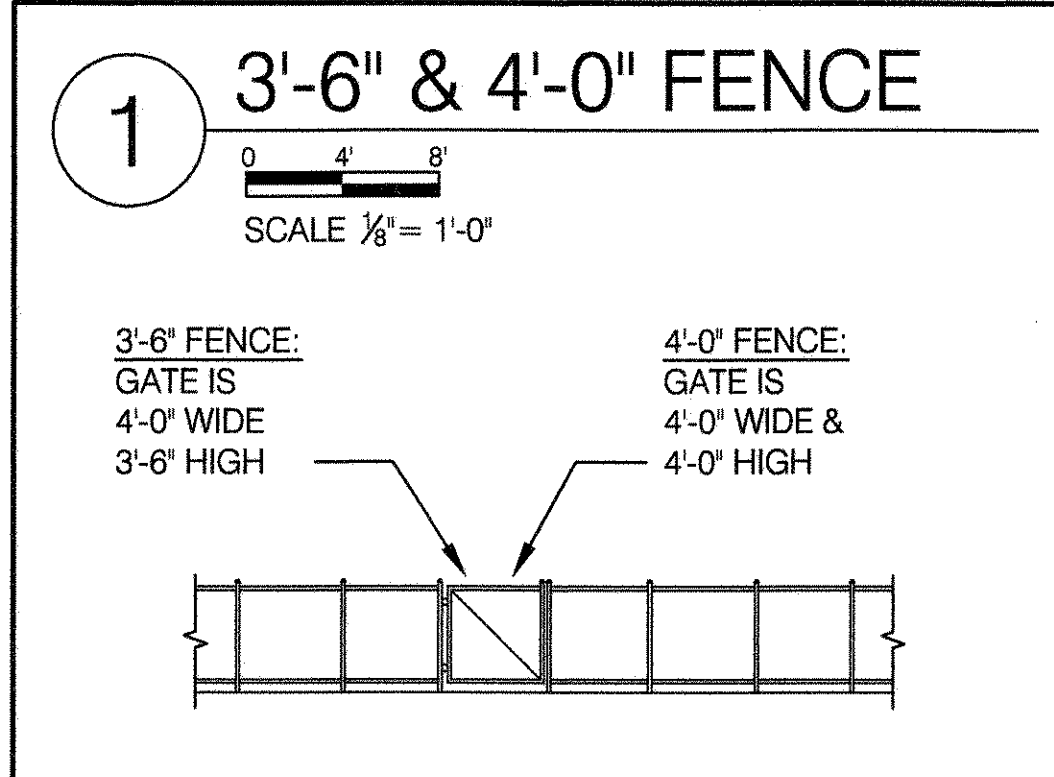
APPROVED BY
 STANDARD D.P.R. DETAIL
 TYLA / 146-R10

APPROVED BY DIRECTOR
 R. WEI, PE

SHEET NO.
 30

DATE
 09-01-2020

SCALE
 AS SHOWN



SCHEDULE OF MEMBER SIZES*

PIPE POSTS & RAILS SHALL BE TYPE I OR TYPE II

TYPE I: ROUND MEMBERS SHALL BE HOT DIPPED GALVANIZED CONFORMING WITH ASTM F1083 STANDARD WEIGHT SCHEDULE 40.

TYPE II: ROUND MEMBERS SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM-A1011/A1011M COLD ROLLED WELDED, HAVE A TENSILE STRENGTH OF 50,000 P.S.I. AND BE GIVEN CORROSION PROTECTION PER ASTM F1043 EXTERNAL COATING AND TYPE D FOR INTERNAL COATING.

HEIGHT OF FENCE	DIAMETER LINE POST	POST SPACING MAXIMUM	GATE POST	HORIZ BRACE AT GATE POST	SIZE OF GATE MEMBERS	HORIZ BRACE ON GATES	SINGLE GATE HEIGHT	SINGLE GATE WIDTH	DIAG. TRUSS ON GATE	DIAG. TRUSS-FENCE PANELS	PORTAL	HEAD RAIL	DEPTH OF POST FOOTING
3'-6"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	3'-6"	4'-0"	1/2" DIA.	0	NO	0	1'-6"
4'-0"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	4'-0"	4'-0"	1/2" DIA.	0	NO	0	1'-6"
6'-0"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	6'-0"	4'-0"	1/2" DIA.	1/2" DIA.	NO	0	2'-0"
8'-0"	2 3/8"	8'-0"	2 7/8"	(1) - 1 5/8"	1 7/8"	1 5/8"	7'-7"	4'-0"	1/2" DIA.	1/2" DIA.	NO	0	2'-0"
10'-0"	2 7/8"	10'-0"	4"	(2) - 1 5/8"	1 7/8"	1 5/8"	7'-7"	4'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	3'-2"
12'-0"	2 7/8"	10'-0"	4"	(2) - 1 5/8"	1 7/8"	1 5/8"	7'-7"	4'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-2"
14', 16', 18"	3 1/2"	10'-0"	4"	(2) - 1 5/8"	1 7/8"	1 5/8"	7'-7"	4'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-2"
20'	4 1/2"	10'-0"	4 1/2"	(3) - 1 5/8"	1 7/8"	1 5/8"	7'-7"	4'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-6"

*ALL PIPE DIAMETERS ARE TRADE SIZE DIAMETERS AS SPECIFIED IN ASTM F1043, TABLE 1. SEE "THICKNESS CHART" ON SHEET NO. 29 FOR ACTUAL O.D. AND THICKNESS OF PIPE.

NOTES:
 1. INSTALL DROP BOLTS TO FACE THE FENCED IN AREA.
 2. CUT DROP BOLTS IN FIELD AS REQUIRED TO ENSURE CORRECT ELEVATION AT GATE STOPS.
 3. GATE LATCH SHALL BE STRONG ARM LATCH BY DAC INDUSTRIES, GRAND RAPIDS, MI, OR APPROVED EQUAL.

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DRAWING TITLE
CHAIN LINK FENCE - SINGLE GATE

DRAWN BY
FERN LAN SEW

APPROVED BY
R. WEI, PE

APPROVED BY DIRECTOR
R. WEI, PE

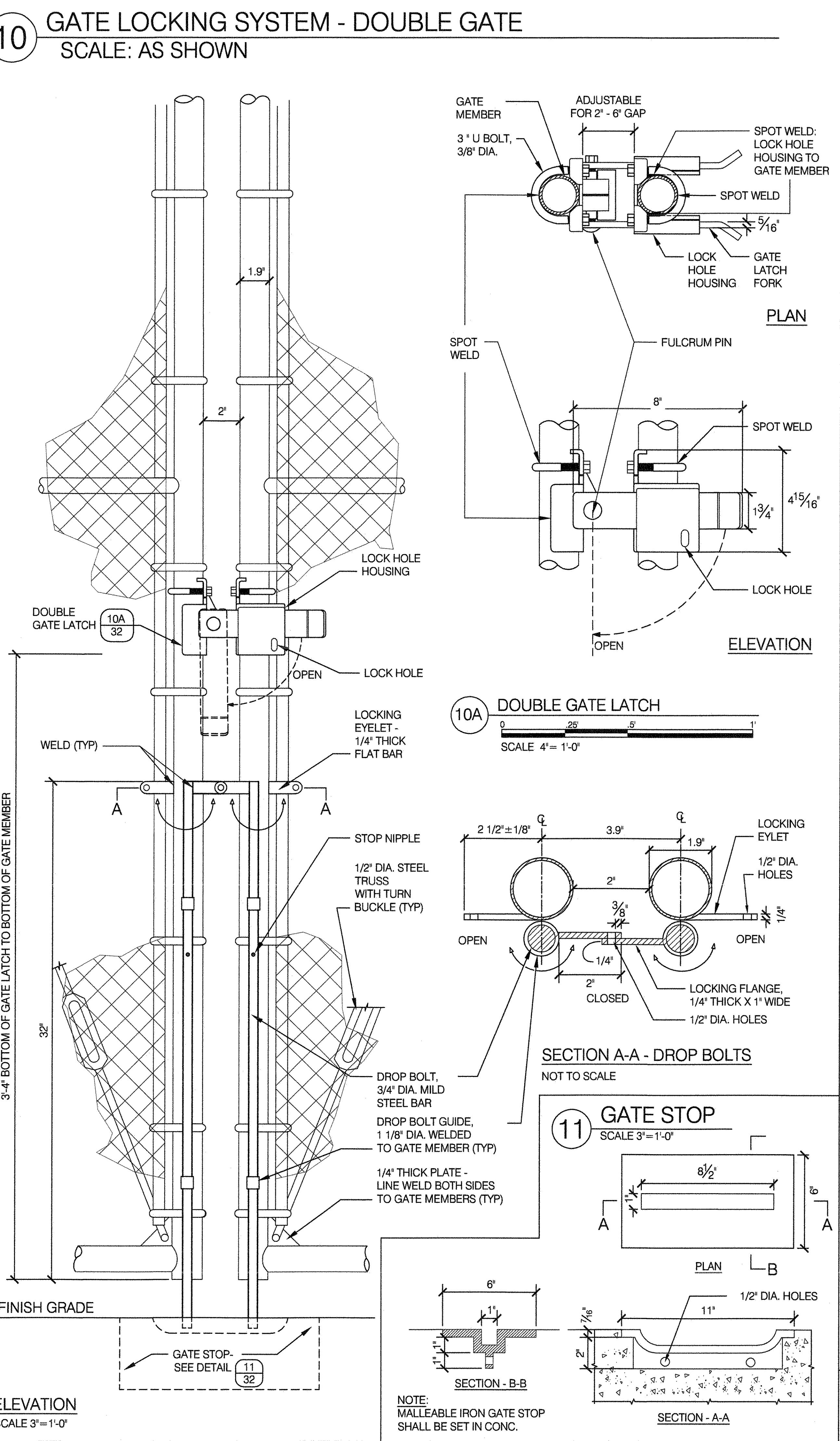
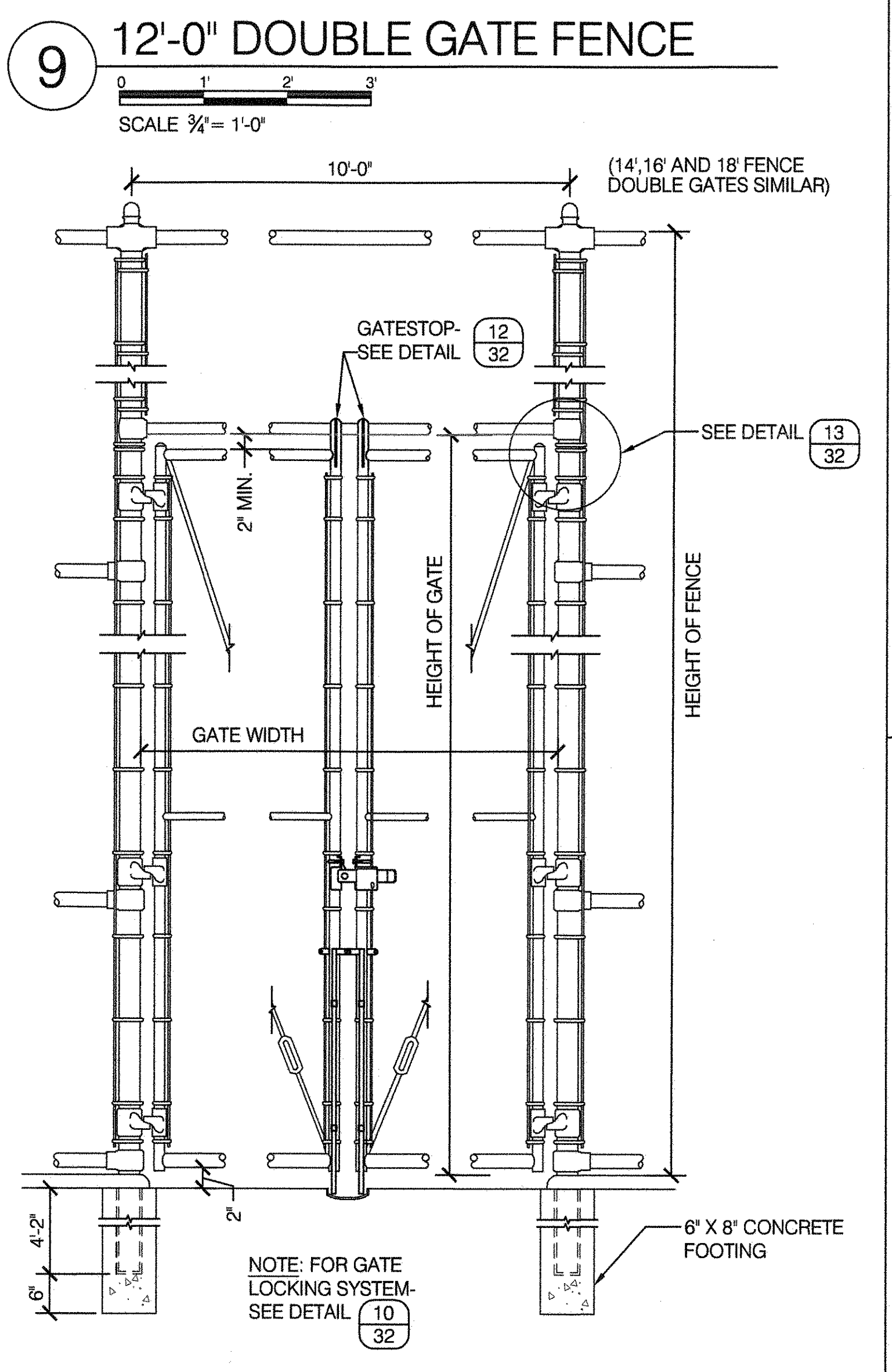
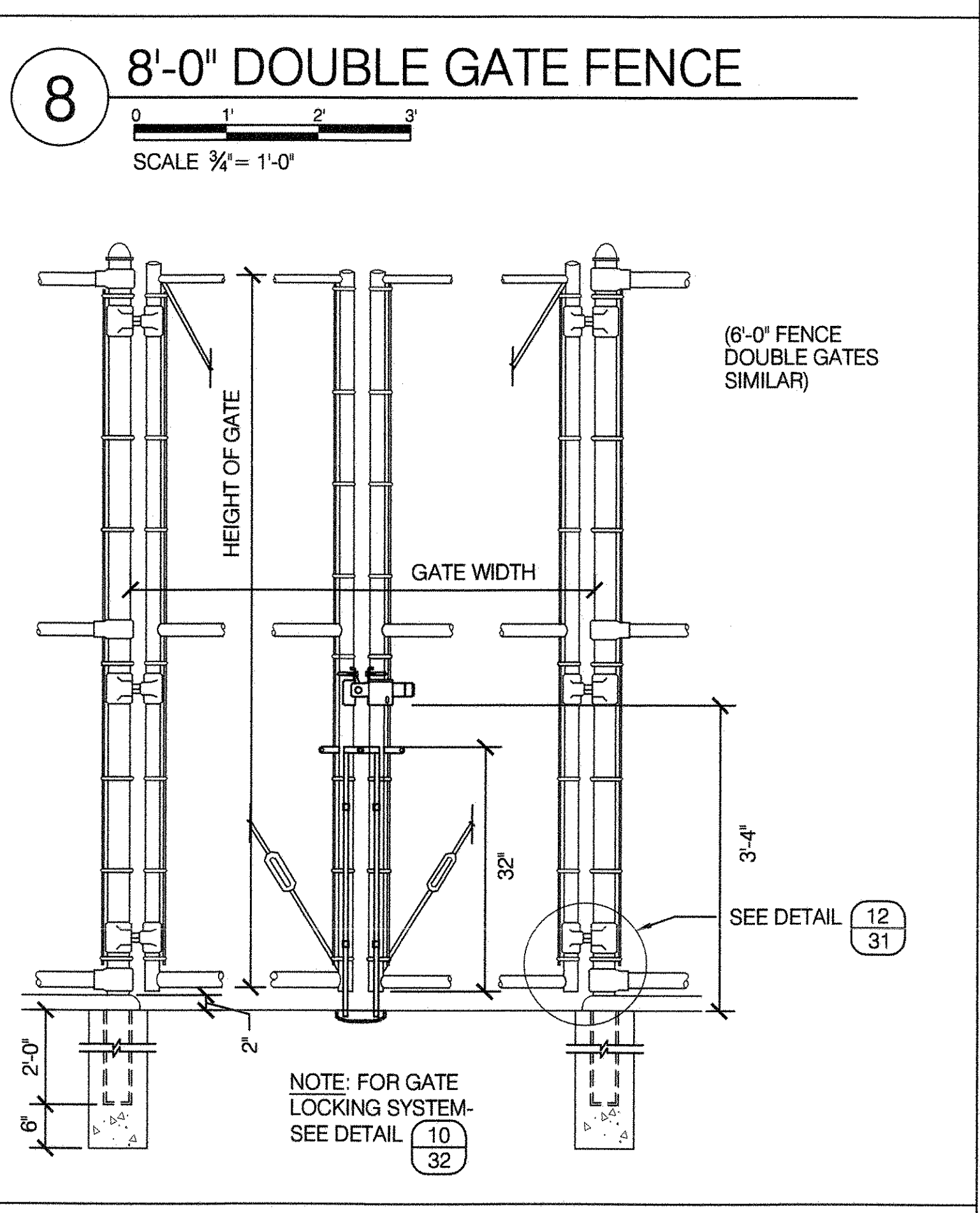
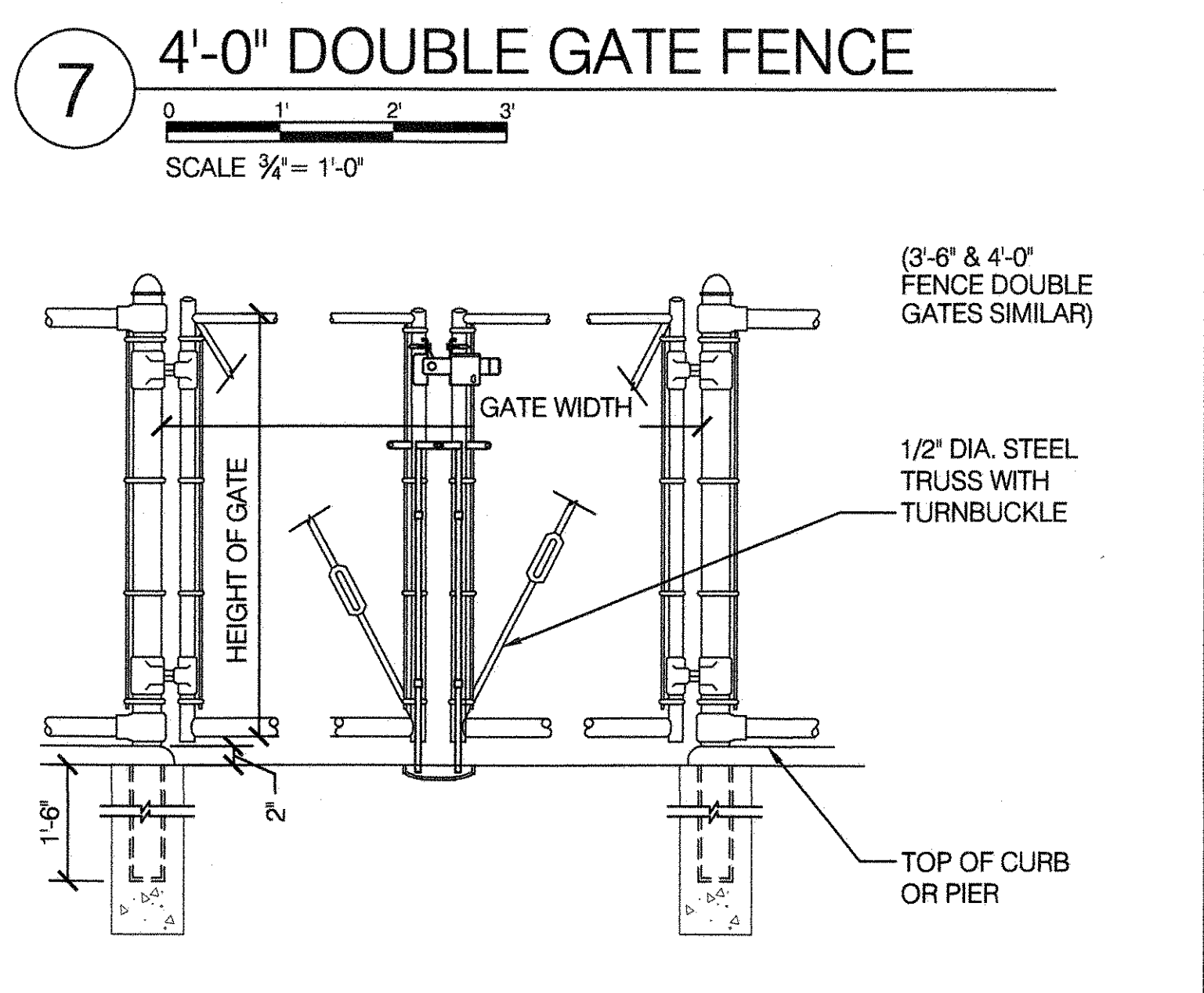
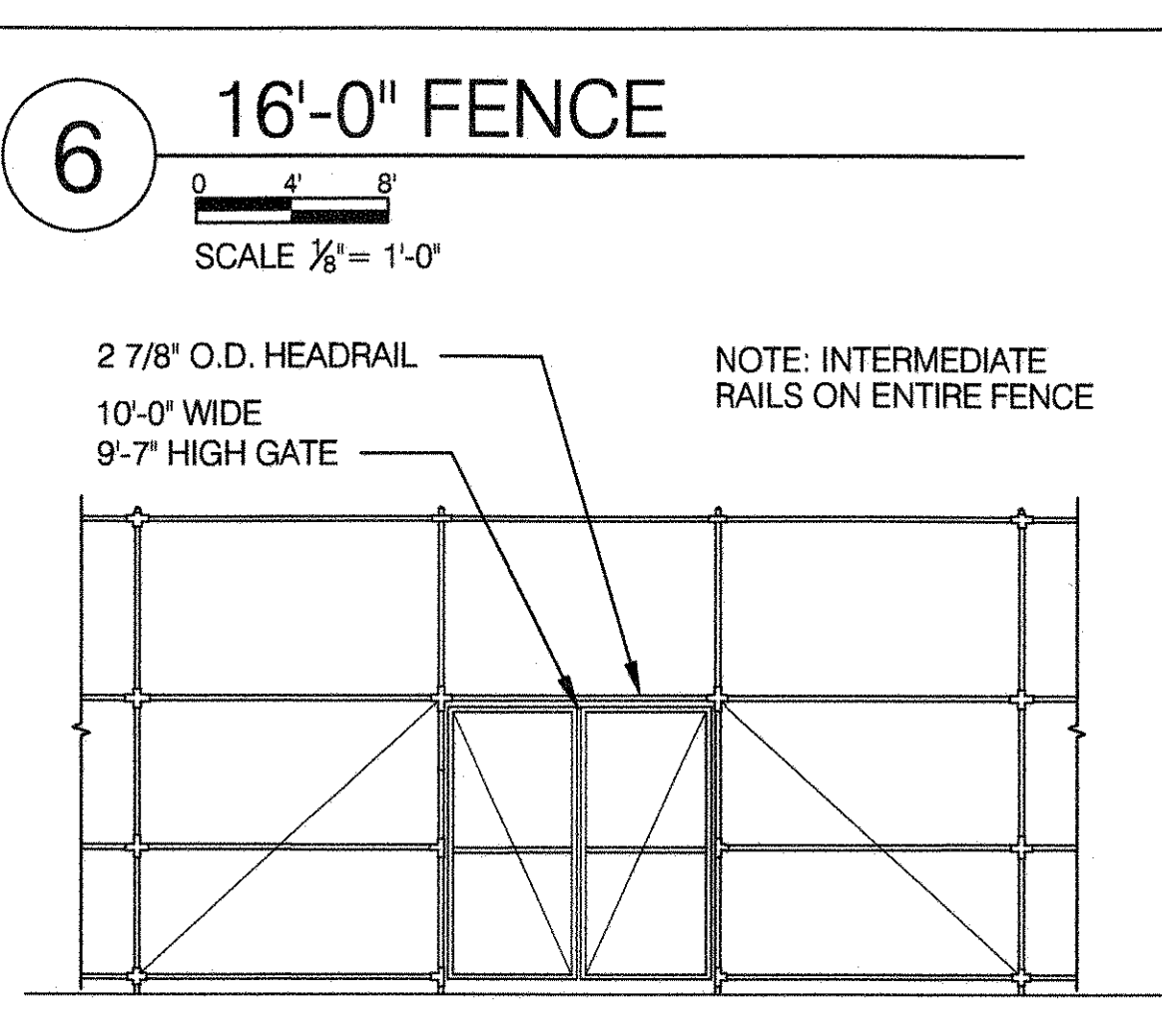
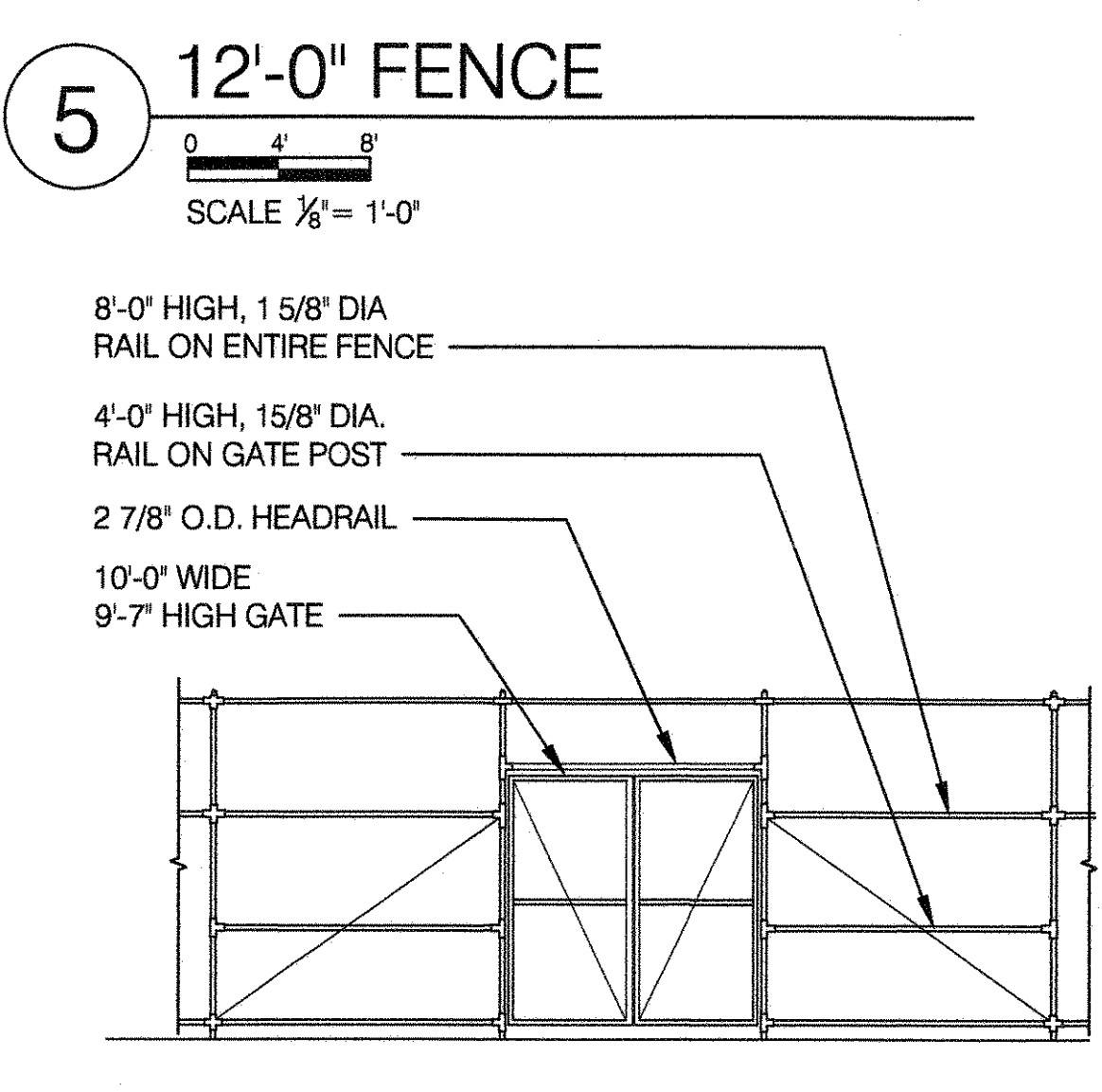
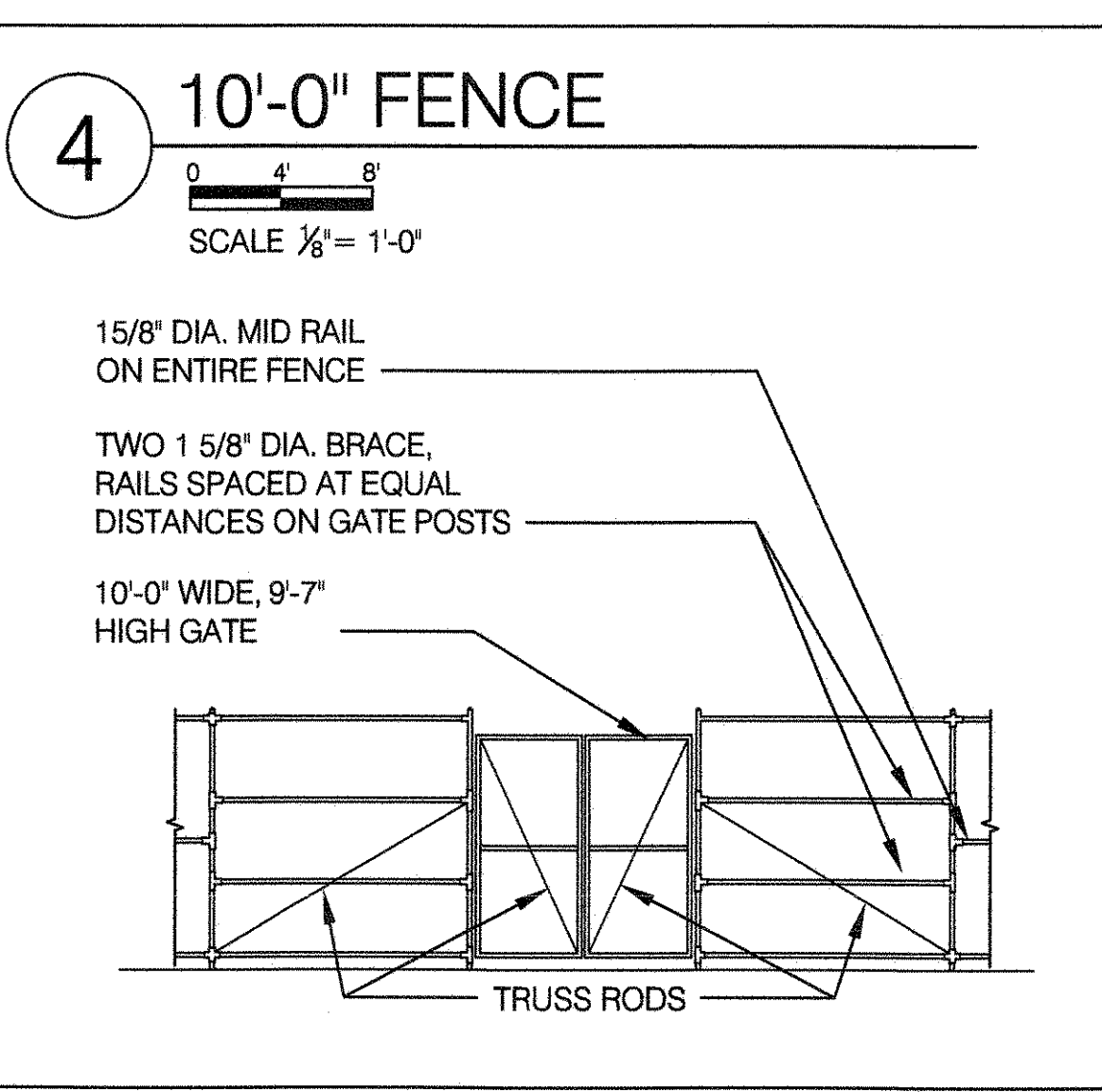
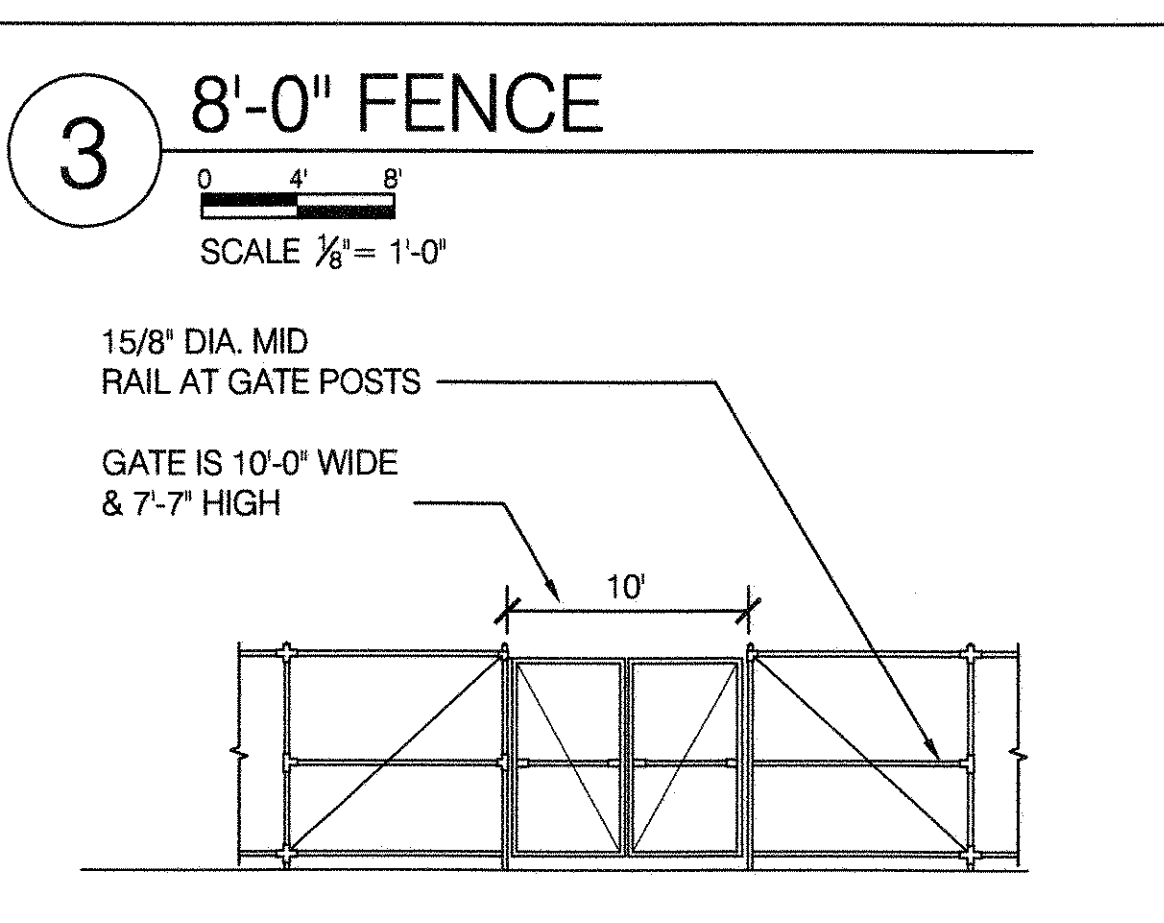
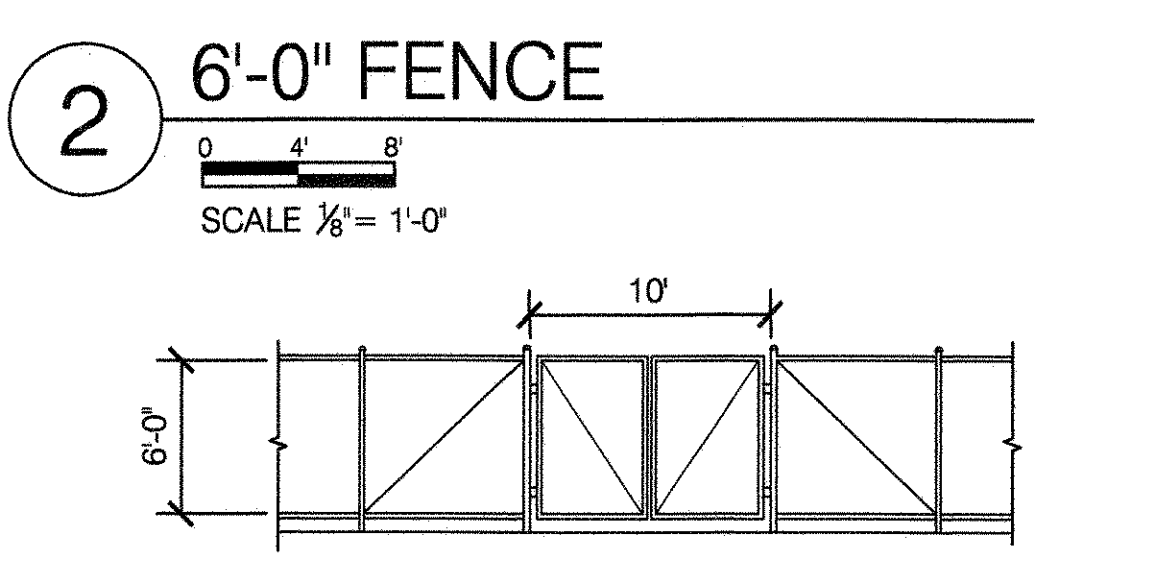
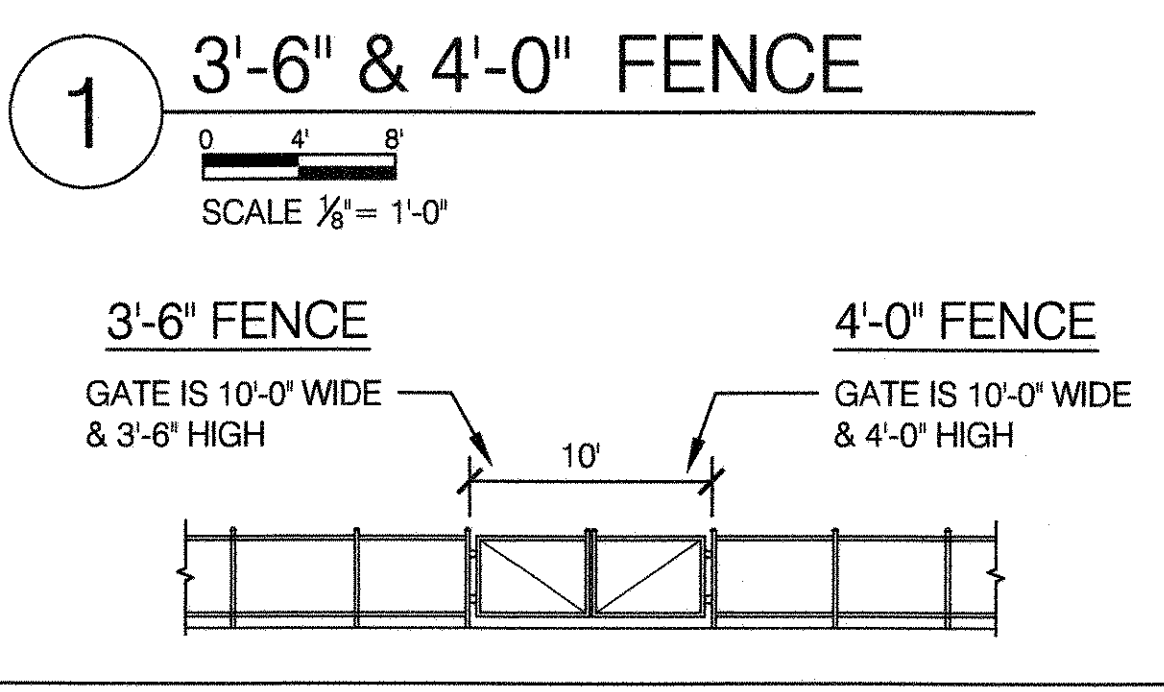
DATE
09-01-2020

CHECKED BY
R. WEI, PE

STANDARD D.P.R. DETAIL
TYLA / 146-R10

SHEET NO.
31

SCALE
AS SHOWN



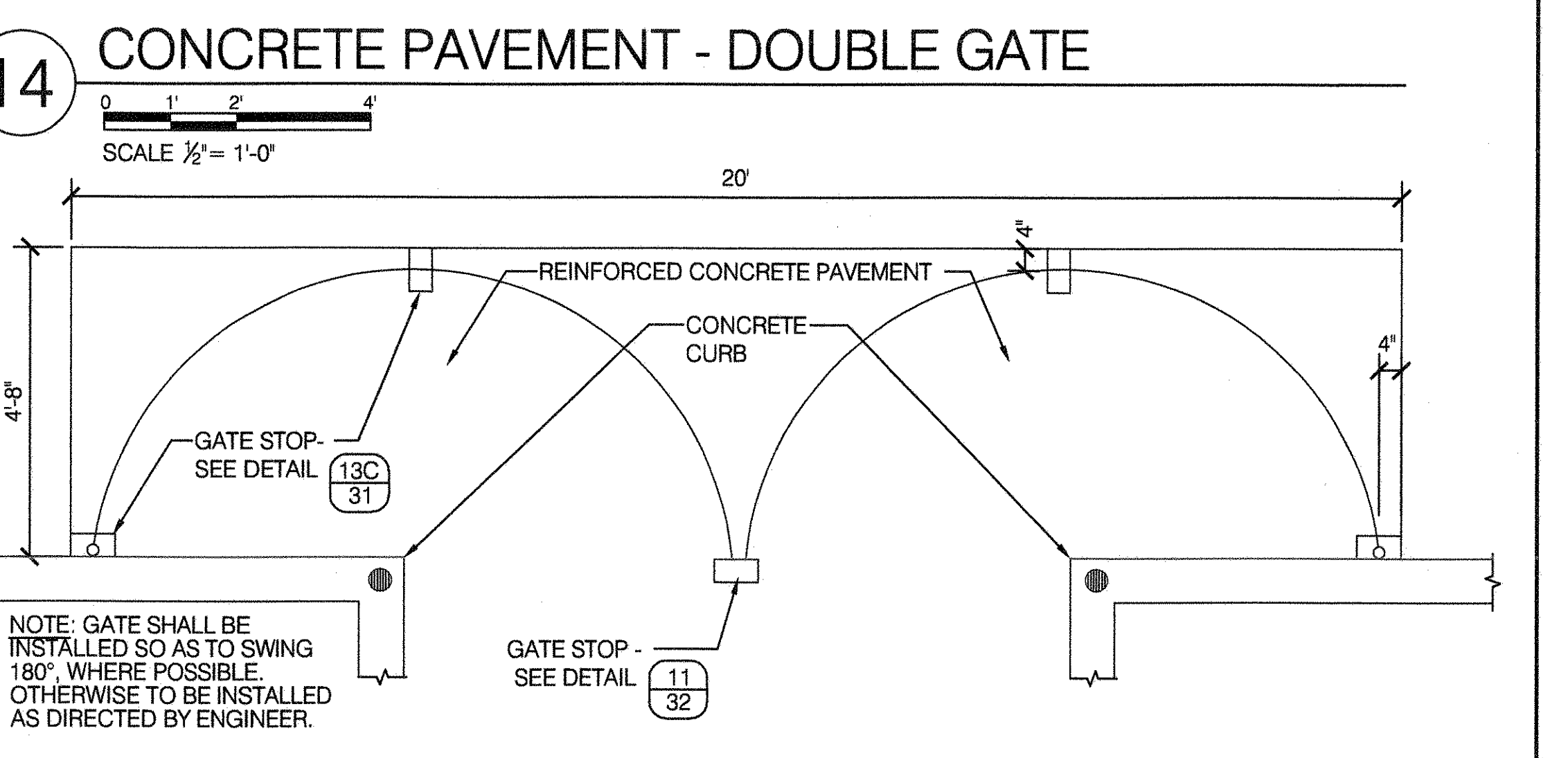
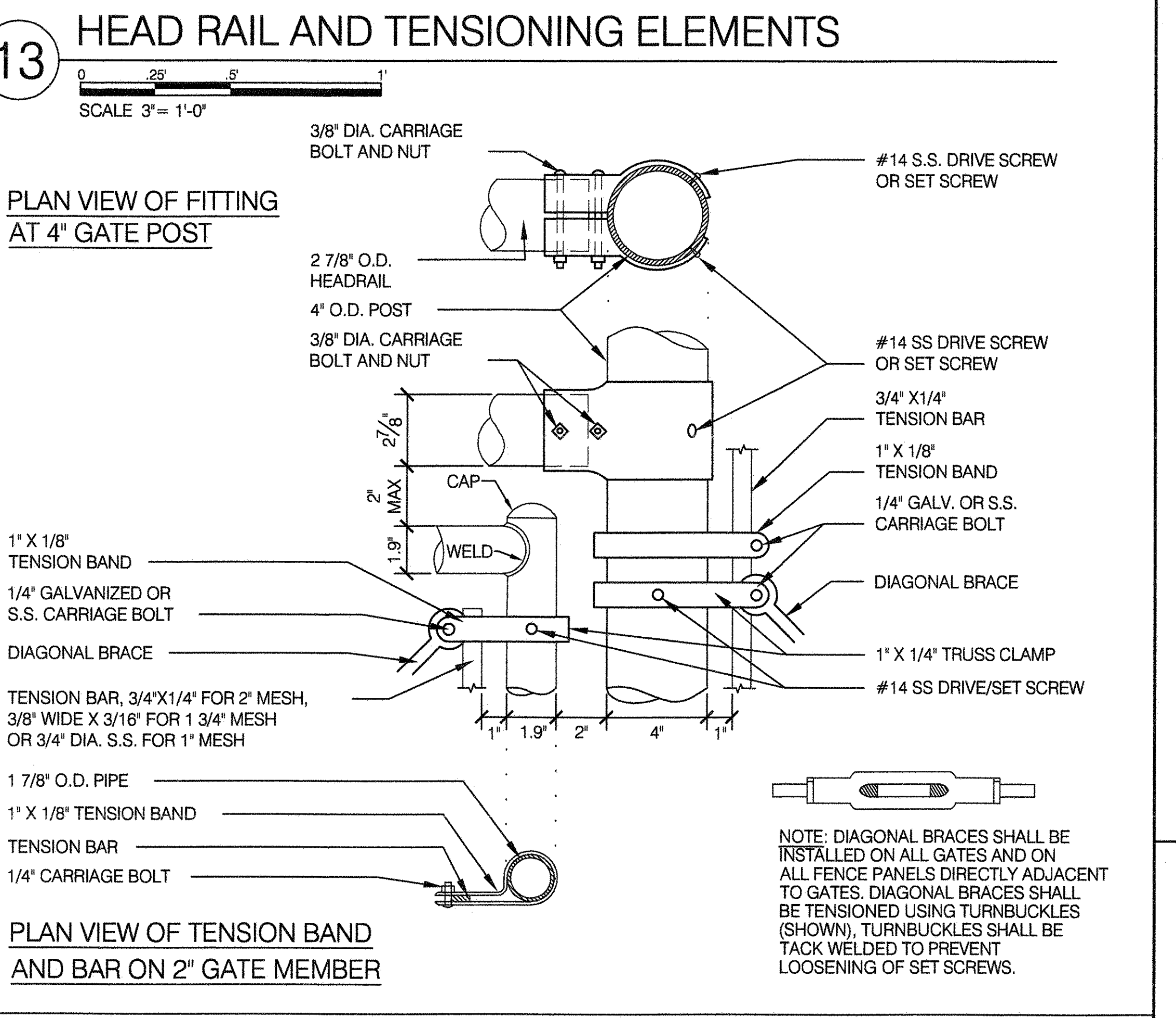
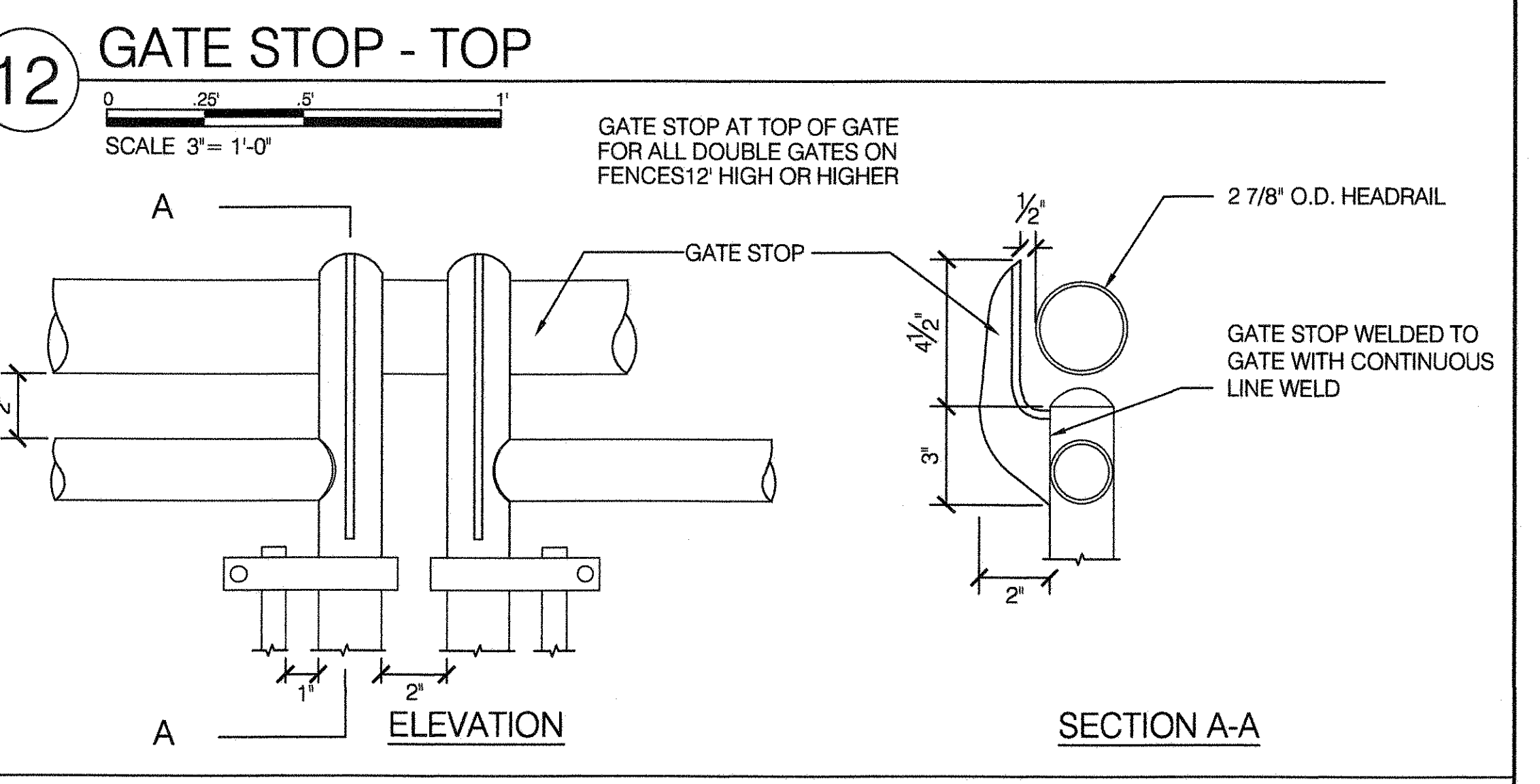
SCHEDULES OF MEMBER SIZES*

PIPE POSTS & RAILS SHALL BE TYPE I OR TYPE II

HEIGHT OF FENCE	DIAMETER OF LINE POSTS	POST SPACING MAXIMUM	GATE POST	HORIZ BRACE AT GATE POST	SIZE OF GATE MEMBERS	HORIZ BRACE ON GATES	DOUBLE GATE HEIGHT	DOUBLE GATE WIDTH	DIAG. TRUSS ON GATE	DIAG. TRUSS-FENCE PANELS	PORTAL	HEAD RAIL	DEPTH OF POST FOOTING
3'-6"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	3'-6"	10'-0"	0	0	NO	0	1'-6"
4'-0"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	4'-0"	10'-0"	0	0	NO	0	1'-6"
6'-0"	1 7/8"	6'-0"	2 7/8"	0	1 7/8"	0	6'-0"	10'-0"	1/2" DIA.	1/2" DIA.	NO	0	2'-0"
8'-0"	2 3/8"	8'-0"	2 7/8"	(1) -1 5/8"	1 7/8"	1 5/8"	7'-7"	10'-0"	1/2" DIA.	1/2" DIA.	NO	0	2'-0"
10'-0"	2 7/8"	10'-0"	4"	(2) -1 5/8"	1 7/8"	1 5/8"	9'-7"	10'-0"	1/2" DIA.	1/2" DIA.	NO	0	3'-2"
12'-0"	2 7/8"	10'-0"	4"	(2) -1 5/8"	1 7/8"	1 5/8"	9'-7"	10'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-2"
14', 16', 18"	3 1/2"	10'-0"	4"	(2) -1 5/8"	1 7/8"	1 5/8"	9'-7"	10'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-2"
20'-0"	4 1/2"	10'-0"	4 1/2"	(3) -1 5/8"	1 7/8"	1 5/8"	9'-7"	10'-0"	1/2" DIA.	1/2" DIA.	YES	2 7/8"	4'-6"

*ALL PIPE DIAMETERS ARE TRADE SIZE DIAMETERS AS SPECIFIED IN ASTM F1043, TABLE 1. SEE "PIPE THICKNESS CHARTS" ON SHEET NO. 29 FOR ACTUAL O.D. AND THICKNESS OF PIPE.

TYPE I: ROUND MEMBERS SHALL BE HOT DIPPED GALVANIZED CONFORMING WITH ASTM F1083 STANDARD WEIGHT SCHEDULE 40.
 TYPE II: ROUND MEMBERS SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM-A1011/A1011M COLD ROLLED WELDED, HAVE A TENSILE STRENGTH OF 80,000 P.S.I. AND BE GIVEN CORROSION PROTECTION PER ASTM F1043 EXTERNAL COATING AND TYPE D FOR INTERNAL COATING.



NOTE: GATE SHALL BE INSTALLED SO AS TO SWING 180°, WHERE POSSIBLE. OTHERWISE TO BE INSTALLED AS DIRECTED BY ENGINEER.

NOTES:
 1. ALL EDGES AND WELDS SHALL BE GRIND SMOOTH. APPLY TOUCH-UP PAINT TO WELDS IN FIELD.
 2. INSTALL DROP BOLTS TO FACE THE FENCED IN AREA.
 3. CUT DROP BOLTS IN FIELD AS REQUIRED TO ENSURE CORRECT ELEVATION AT GATE STOPS.
 4. GATE LATCH SHALL BE COMMERCIAL DOUBLE GATE LATCH BY DAC INDUSTRIES, GRAND RAPIDS, MI, OR APPROVED EQUAL.

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 FLUSHING, NEW YORK 11368

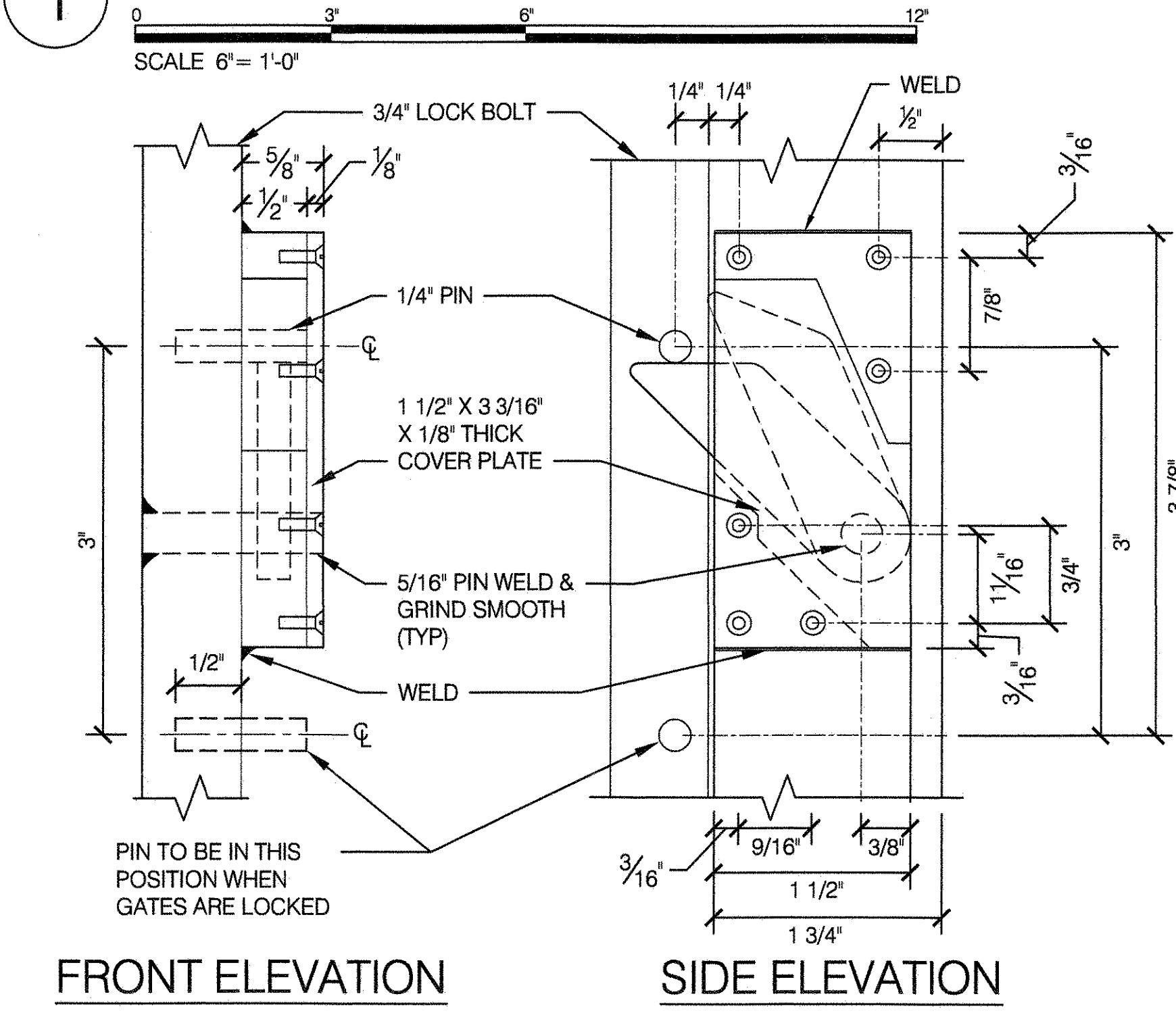
NYC Parks

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 DRAWING TITLE: CHAIN LINK FENCE - DOUBLE GATE

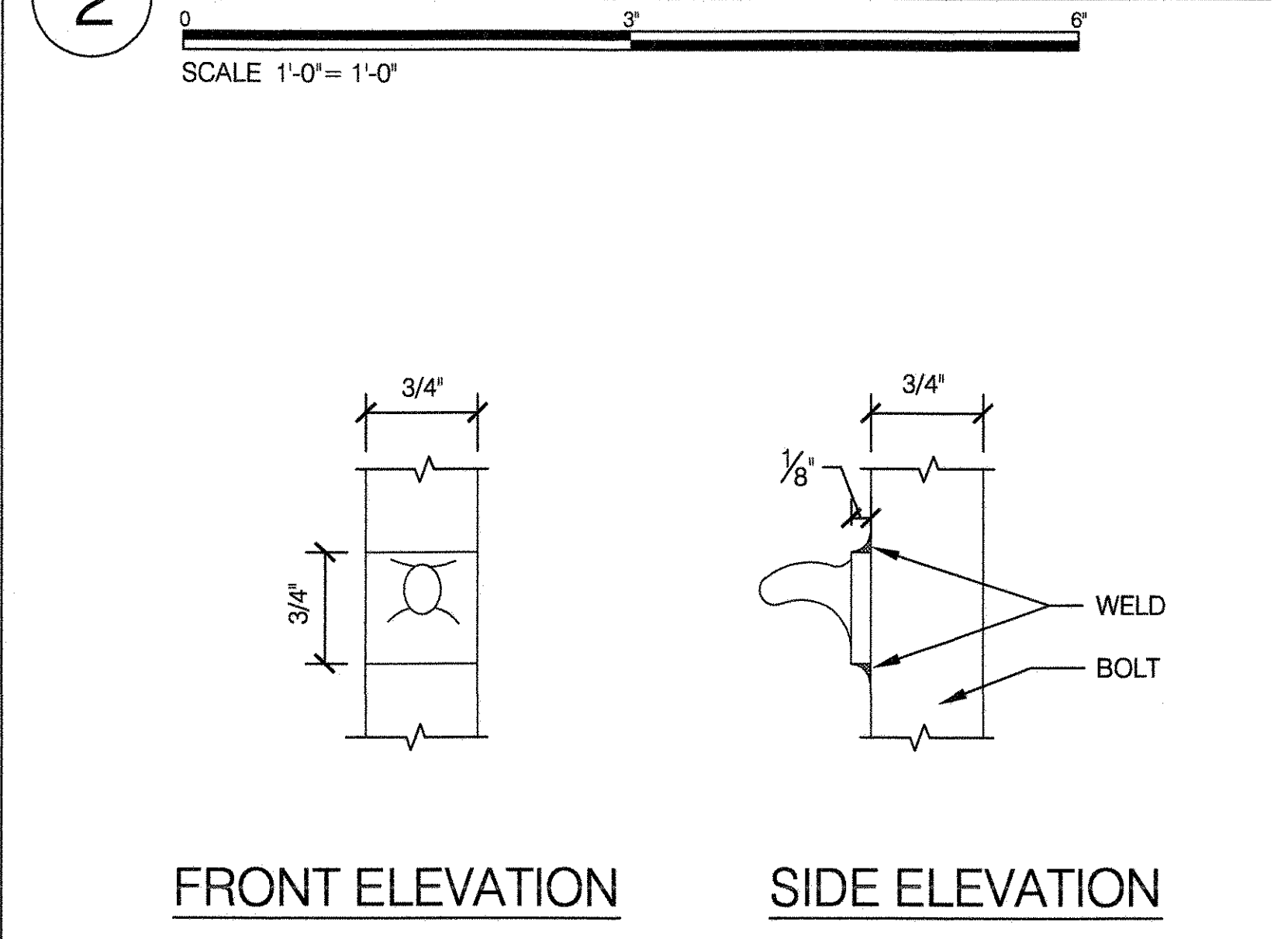
DRAWN BY: F. SIEW
 APPROVED BY: R. WEI, PE
 APPROVED BY DIRECTOR: RUBY S. WEI, PE
 DATE: 09-01-2020

CHECKED BY: R. WEI, PE
 STANDARD D.P.R. DETAIL: TYLA / 146-R10
 SHEET NO.: 32
 SCALE: AS SHOWN

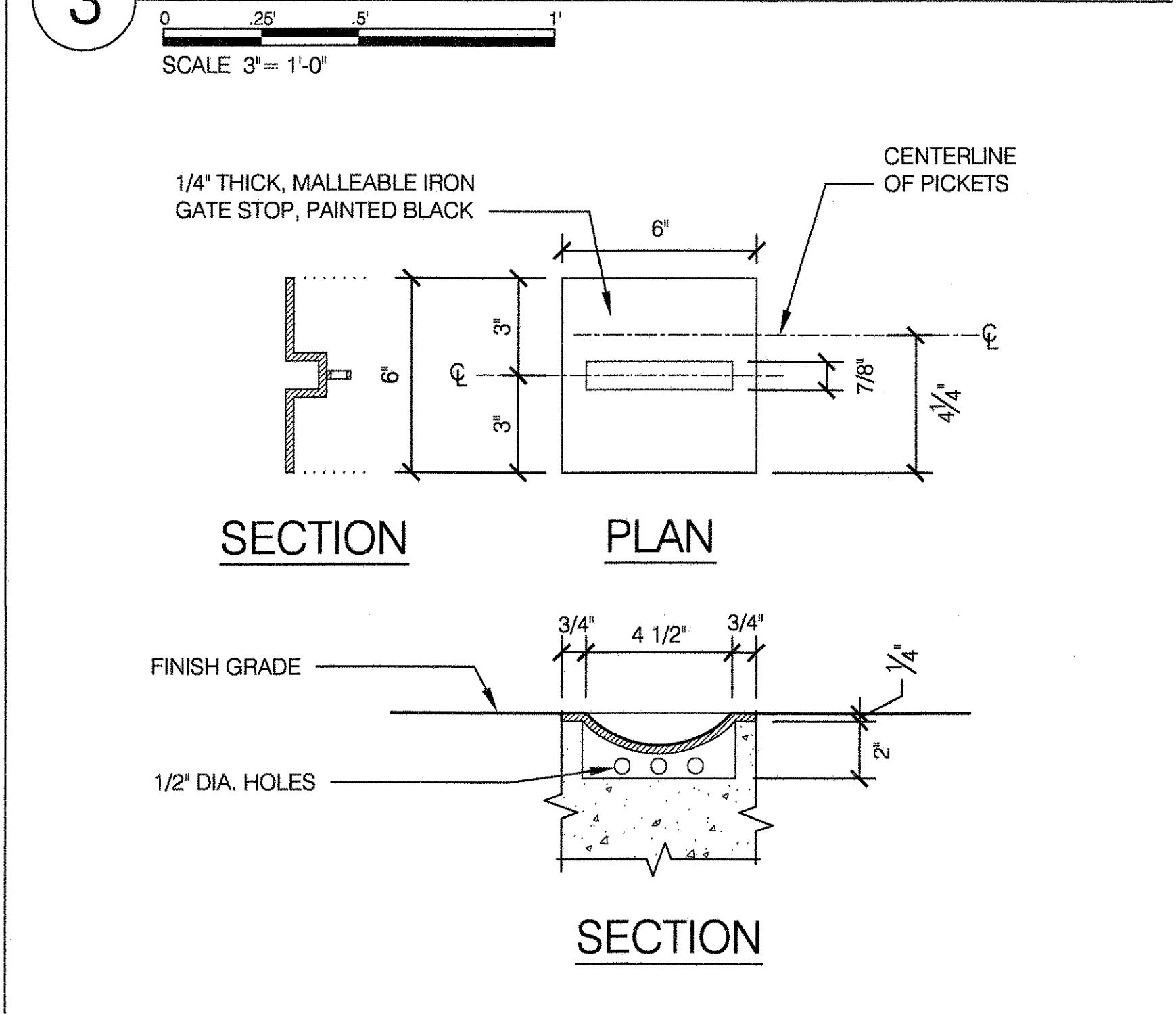
1 BOLT CATCH FOR DOUBLE GATES



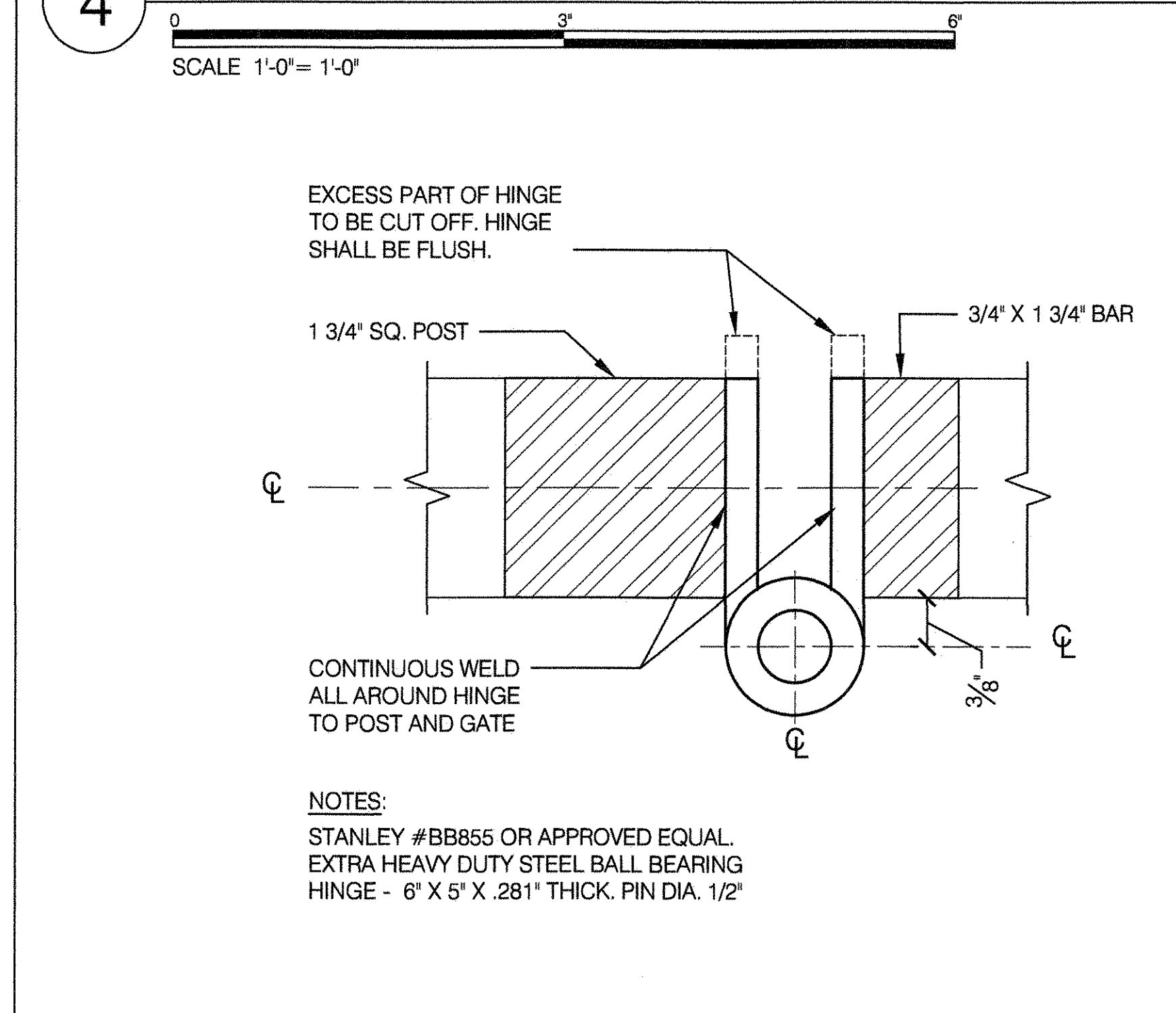
2 BOLT LIFT FOR DOUBLE GATES



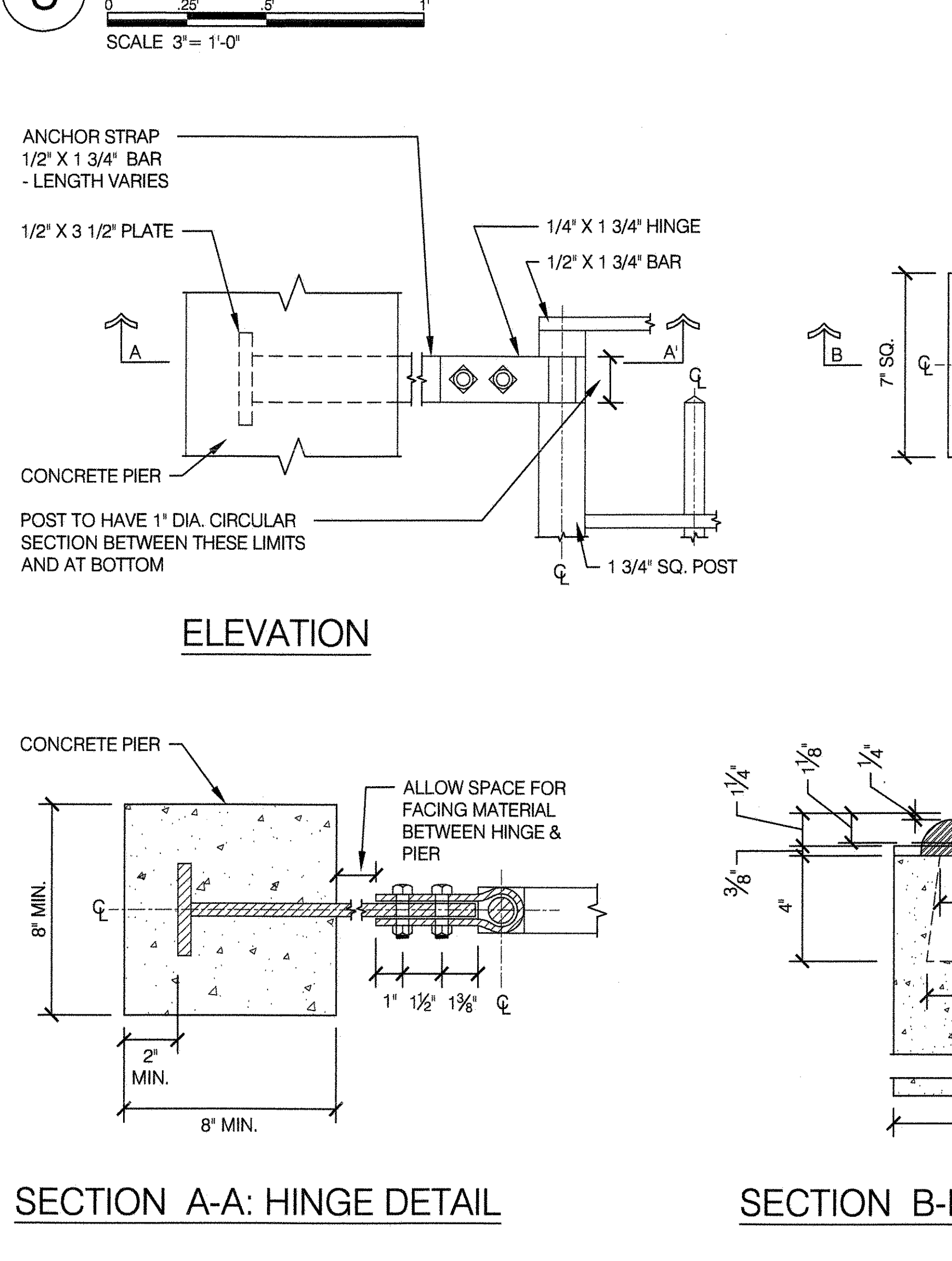
3 GATE STOP FOR DOUBLE GATES



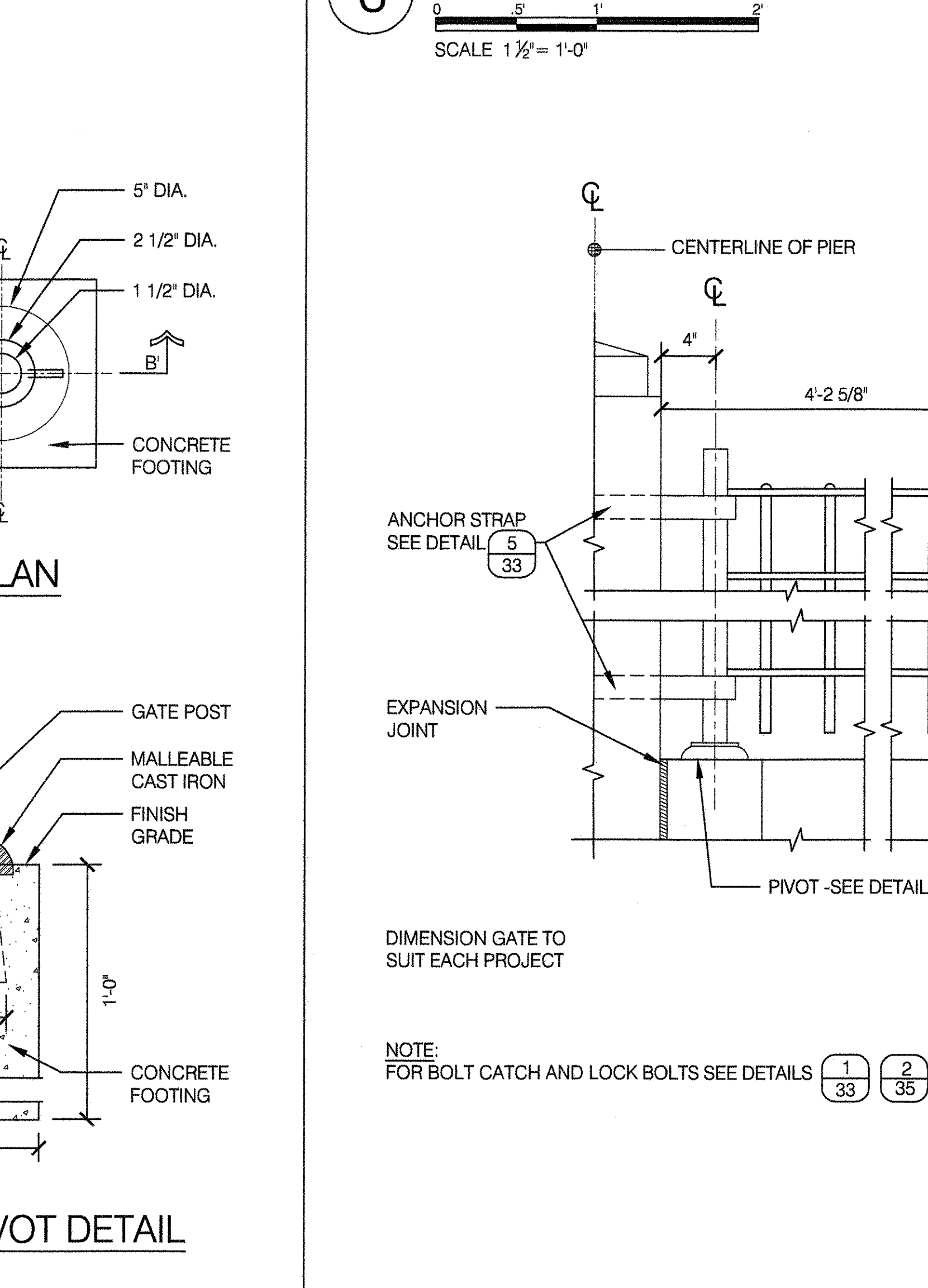
4 HINGE DETAIL FOR DOUBLE GATES



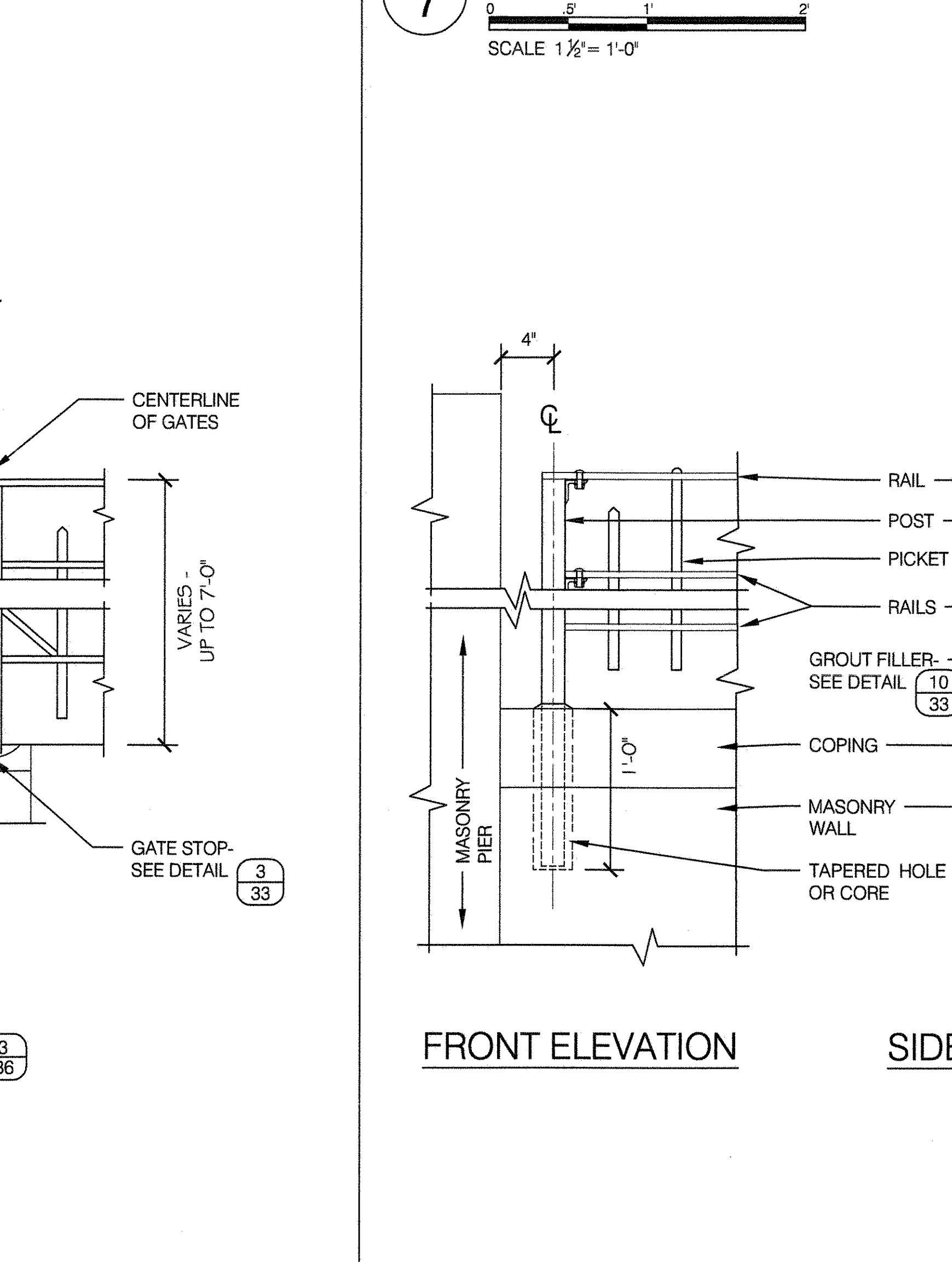
5 PIVOT GATE HINGE FOR DOUBLE GATES AT MASONRY PIER



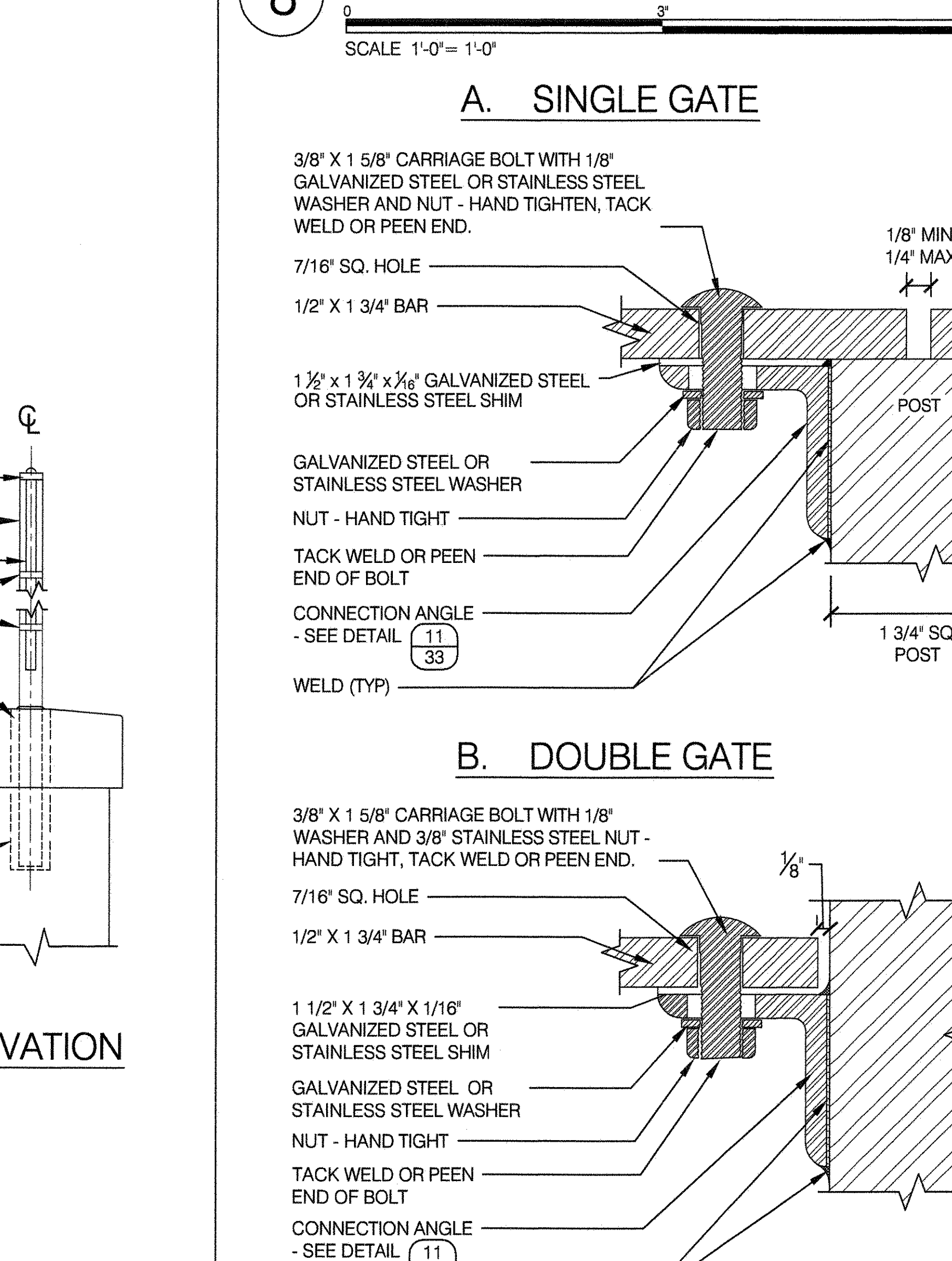
6 SINGLE & DOUBLE GATES AT MASONRY PIER



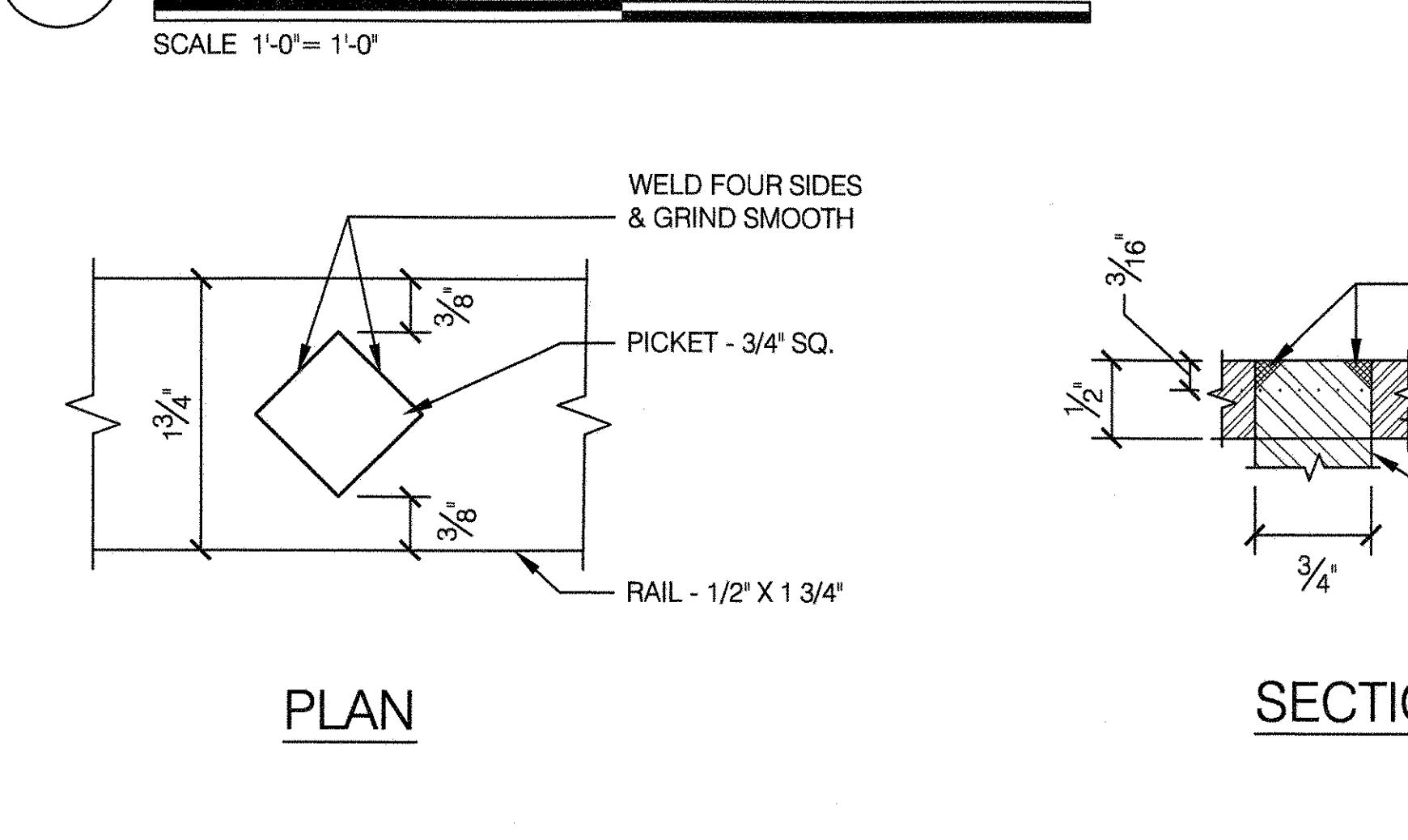
7 SINGLE & DOUBLE FENCE ON MASONRY WALL



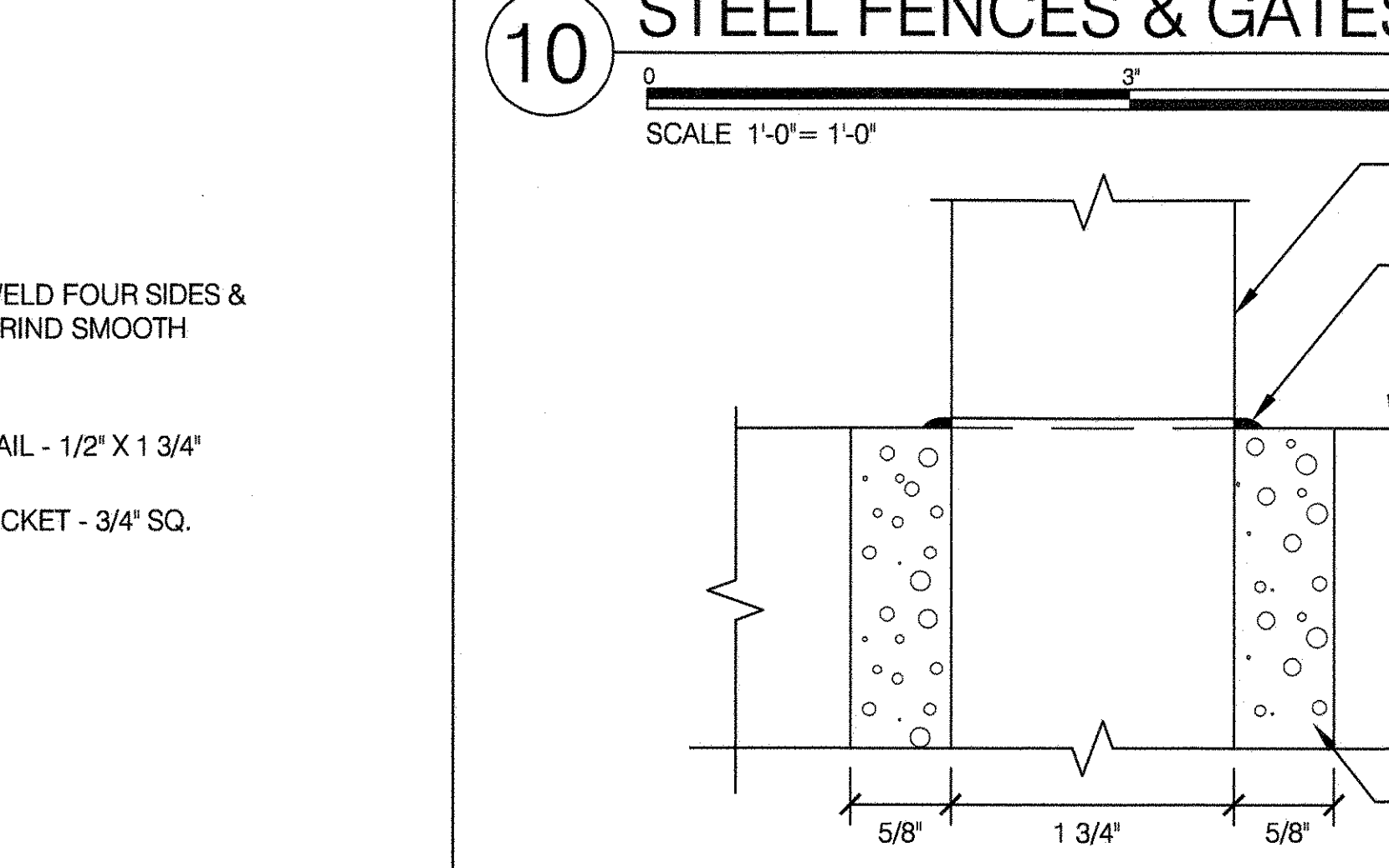
8 PANEL TO POST DETAIL STEEL FENCES & GATES



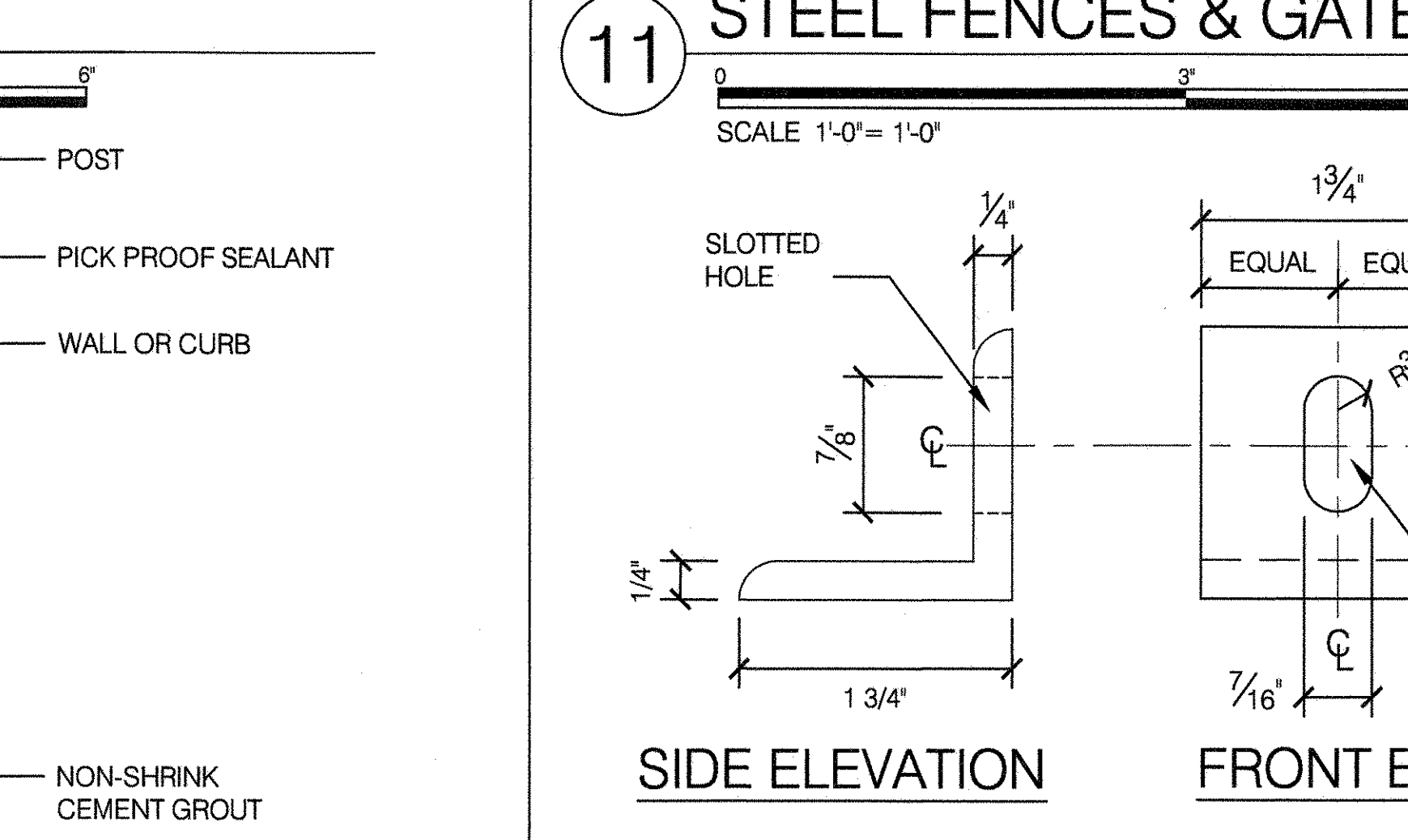
9 WELD - 2'-6" HT. STEEL FENCES & GATES



10 GROUT FILLER FOR STEEL FENCES & GATES



11 CONNECTION ANGLE - ALL STEEL FENCES & GATES



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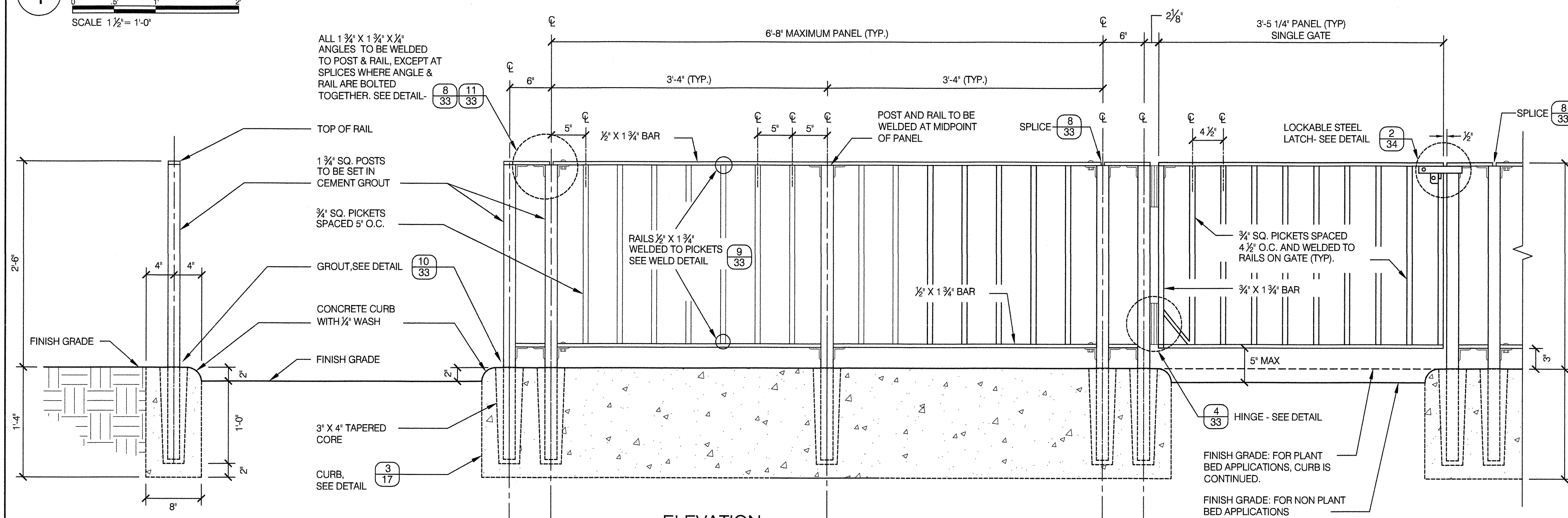
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DRAWING TITLE: STEEL FENCE DETAILS

DRAWN BY: M. MERIC	CHECKED BY: R. WEI, PE
APPROVED BY: R. WEI, PE	STANDARD D.P.R. DETAIL: TYLA / 146-R10
APPROVED BY DIRECTOR: R. WEI, PE	SHEET NO.: 33
DATE: 09-01-2020	SCALE: AS SHOWN

STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER

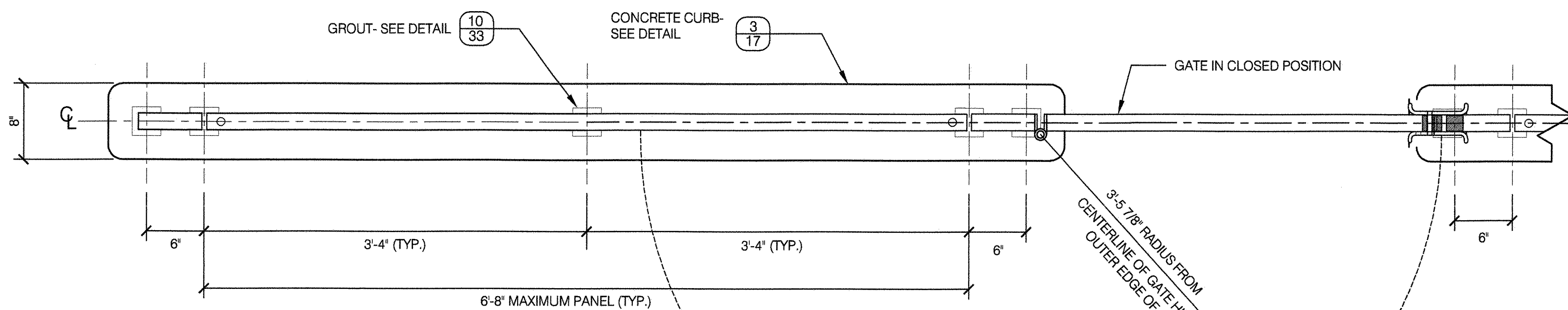
1 2'-6" HT. STEEL FENCE AND GATE

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



SECTION

ELEVATION

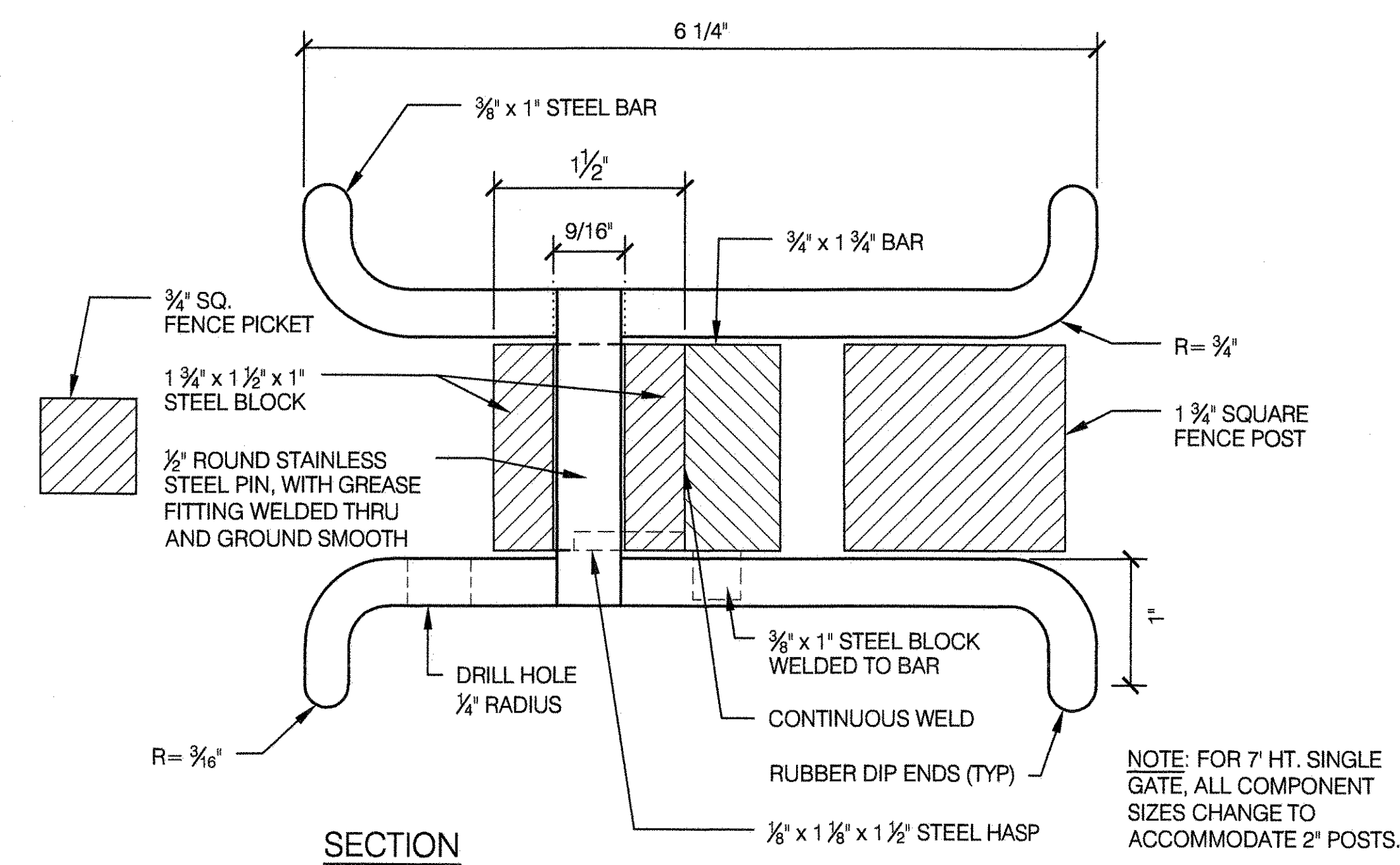


PLAN

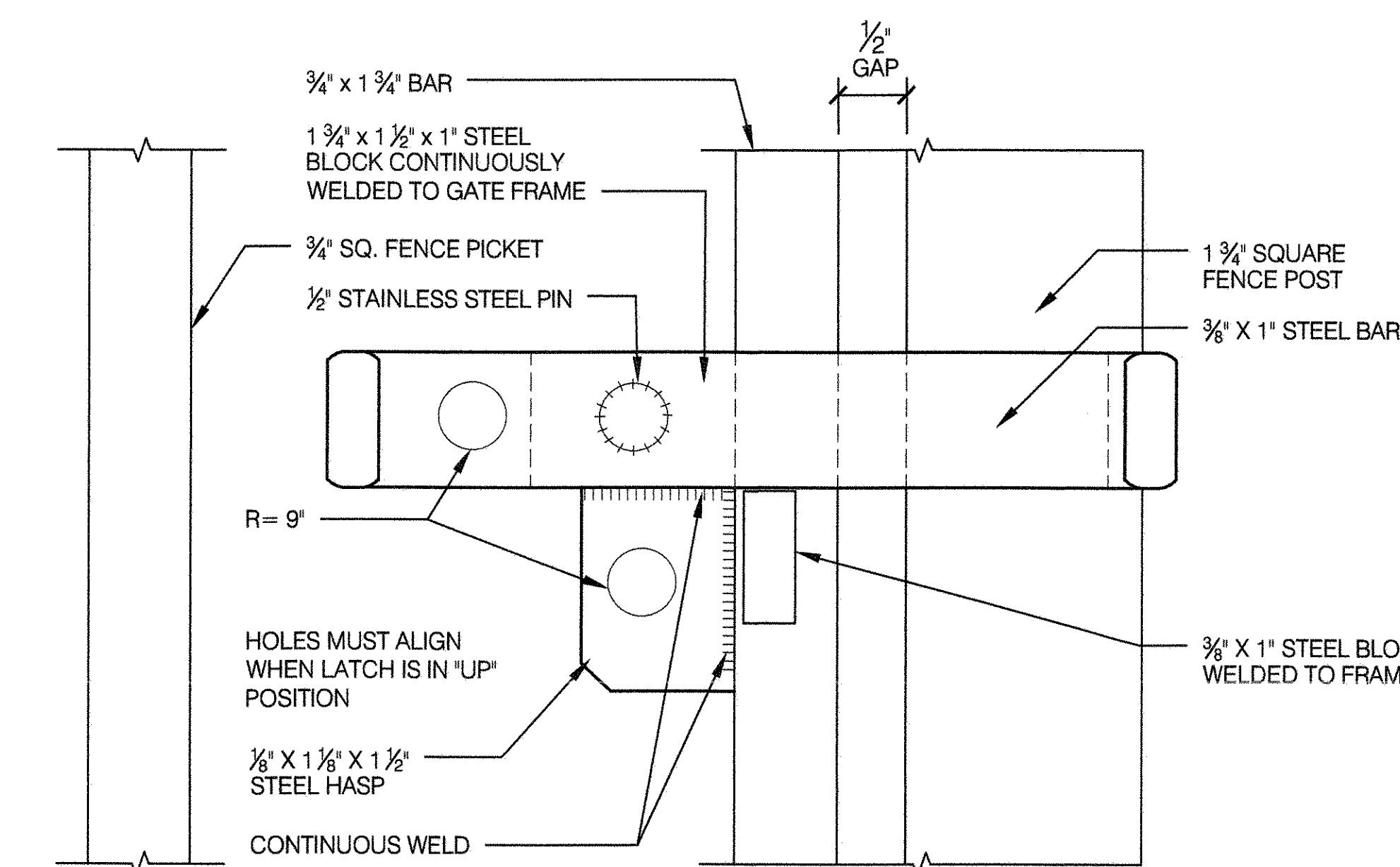
- NOTES:
- ALL JOINTS AND CONNECTIONS TO BE WELDED AND GROUND SMOOTH UNLESS OTHERWISE NOTED. ALL WELDS TO BE LINE WELDS AND ALL FILLET WELDS TO BE 3/16".
 - CONTRACTOR SHALL SUPPLY SHOP DRAWINGS DETAILING FABRICATION AND INSTALLATION

2 STEEL LATCH - LOCKABLE

SCALE 1'-0" = 1'-0"



SECTION

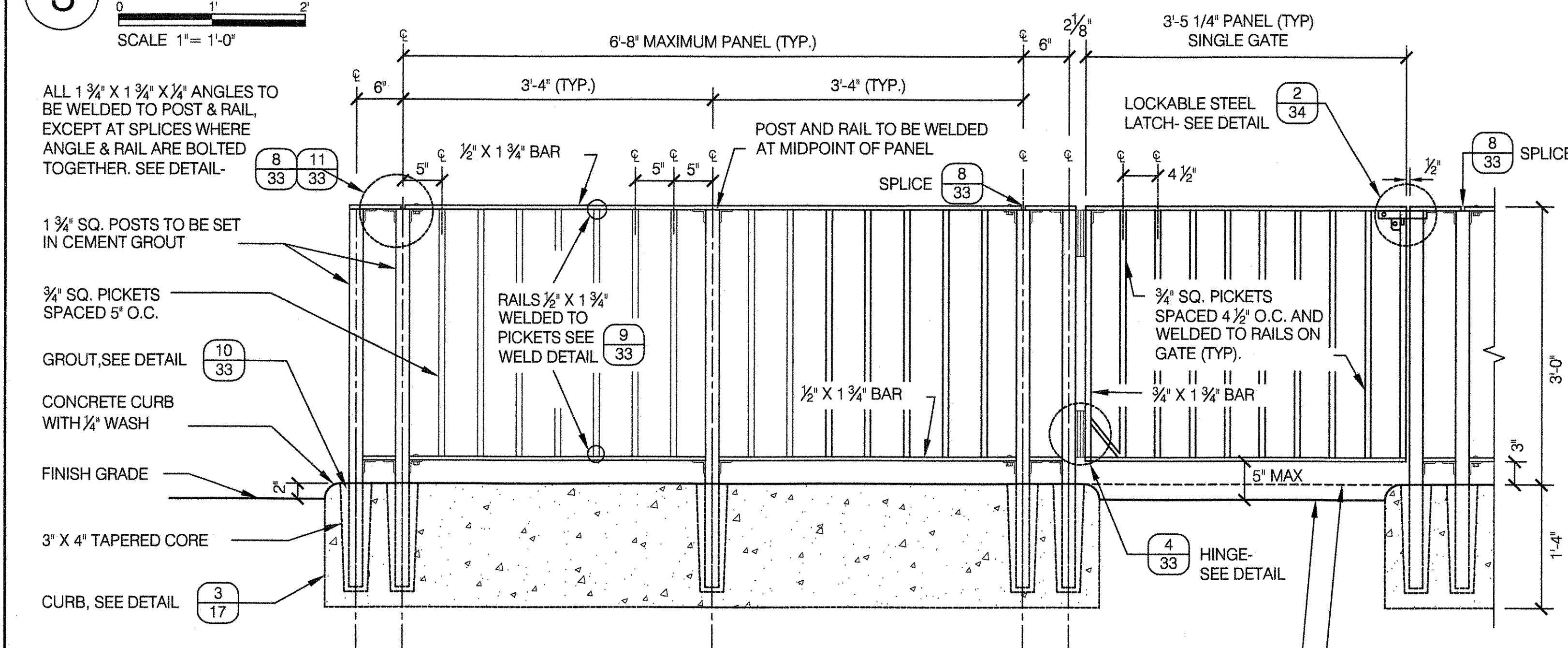


ELEVATION

NOTE: FOR PERIMETER GATES OR OTHER AREAS WHERE GATES MUST REMAIN LOCKED.

3 3'-0" HT. STEEL FENCE AND GATE

SCALE 1" = 1'-0"

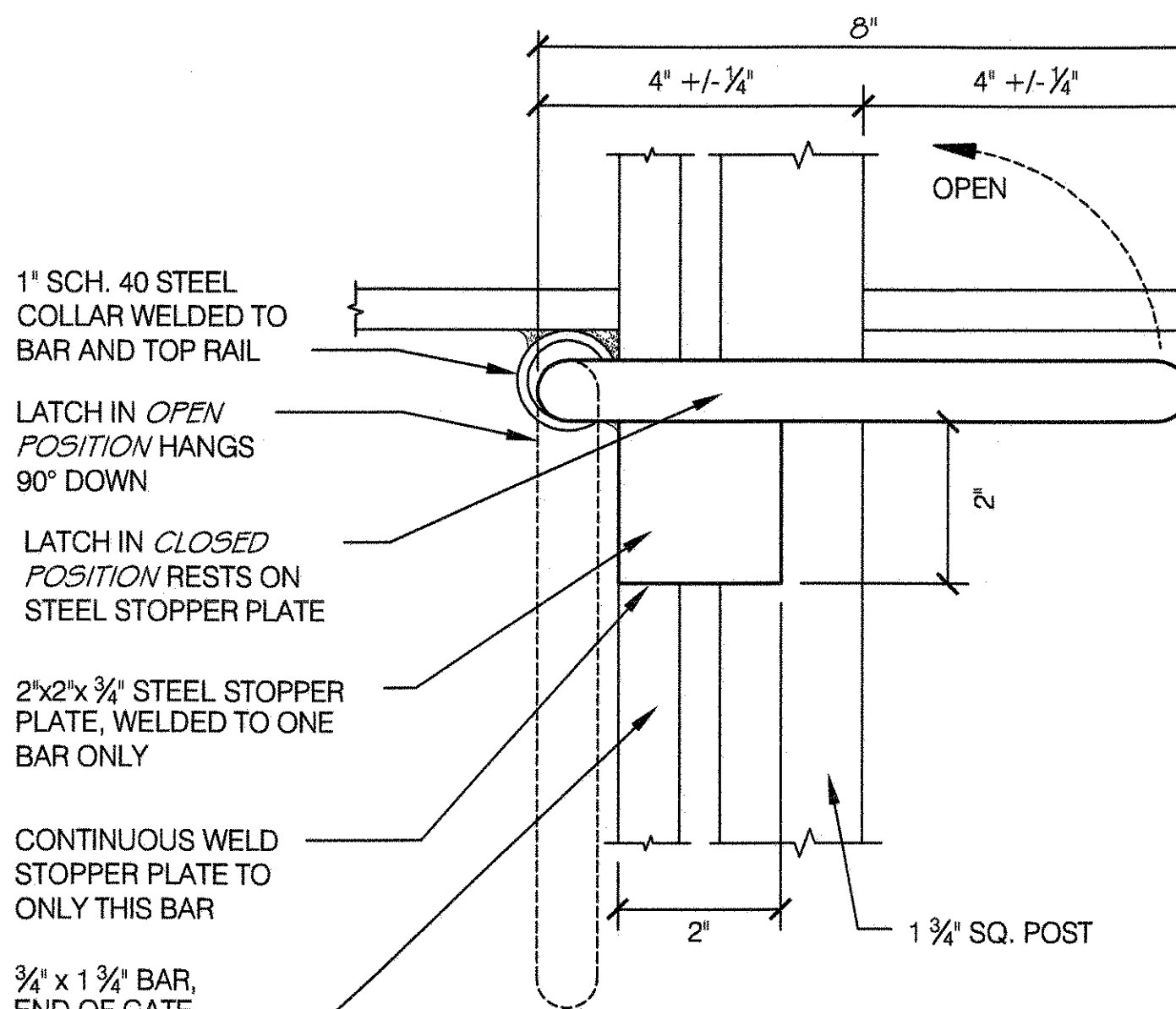


ELEVATION

- NOTES:
- ALL JOINTS AND CONNECTIONS TO BE WELDED AND GROUND SMOOTH UNLESS OTHERWISE NOTED. ALL WELDS TO BE LINE WELDS AND ALL FILLET WELDS TO BE 3/16".
 - CONTRACTOR SHALL SUPPLY SHOP DRAWINGS DETAILING FABRICATION AND INSTALLATION
 - WHEN FENCE IS INSTALLED IN LINE WITH PLAY PANELS OR WHEN CURB REVEAL IS GREATER THAN 12" ON EITHER SIDE OF THE CURB IN A PLAYGROUND, SPACING BETWEEN PICKETS SHALL BE ADJUSTED TO 3 1/2" MAXIMUM. ADJUSTED PICKET SPACING SHALL EXTEND A MINIMUM OF 6 FEET ON BOTH SIDES OF THE PLAY PANEL OR CURB REVEAL.

4 STEEL LATCH

SCALE 6" = 1'-0"



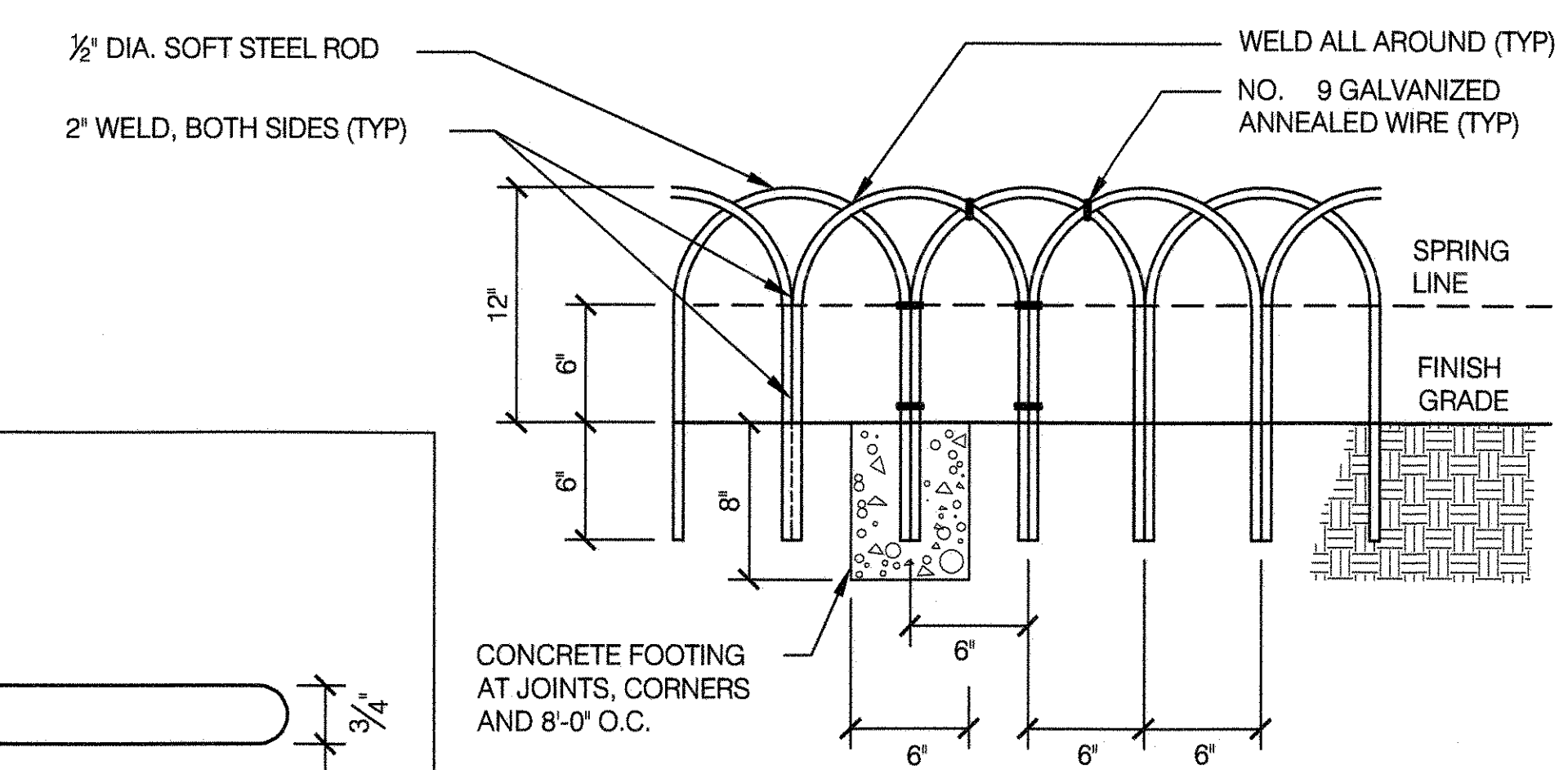
ELEVATION VIEW

- NOTES:
- FOR INTERNAL GATES AROUND PLAY AREAS OR OTHER AREAS WHERE GATES MUST REMAIN CLOSED, BUT NOT LOCKED.
 - LATCH SHALL HAVE SMOOTH EDGES, PAINT TO MATCH FENCE.

5 WICKET FENCE - 12" HEIGHT

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

NOTE: ASSEMBLE IN 16'-0" LENGTHS



PLAN VIEW

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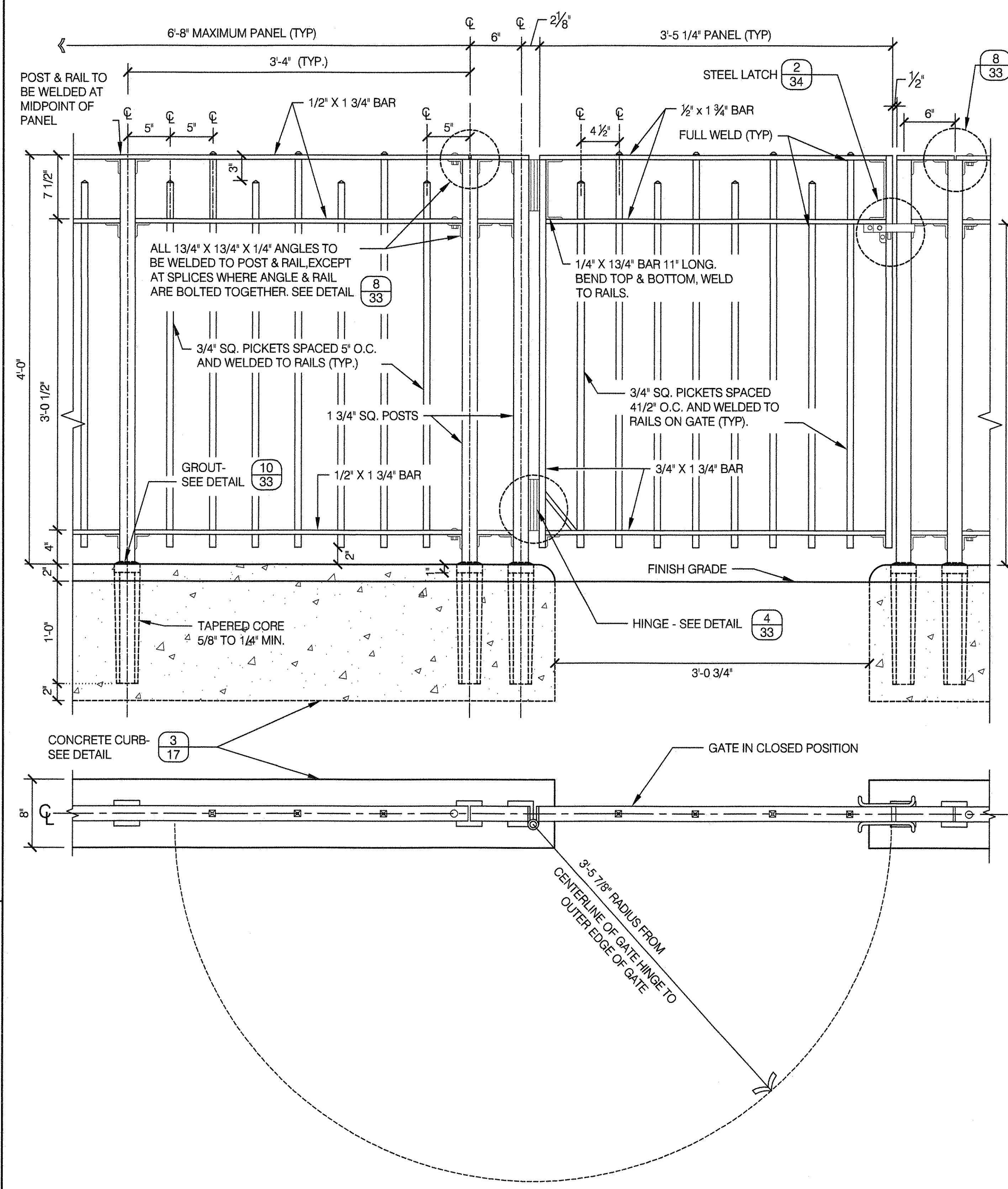
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DRAWING TITLE
2'-6" HT. / 3'-0" HT. STEEL FENCE AND WICKET FENCE

DRAWN BY M. KRALOVICH	CHECKED BY R. WEI, PE
APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 34
	SCALE AS SHOWN

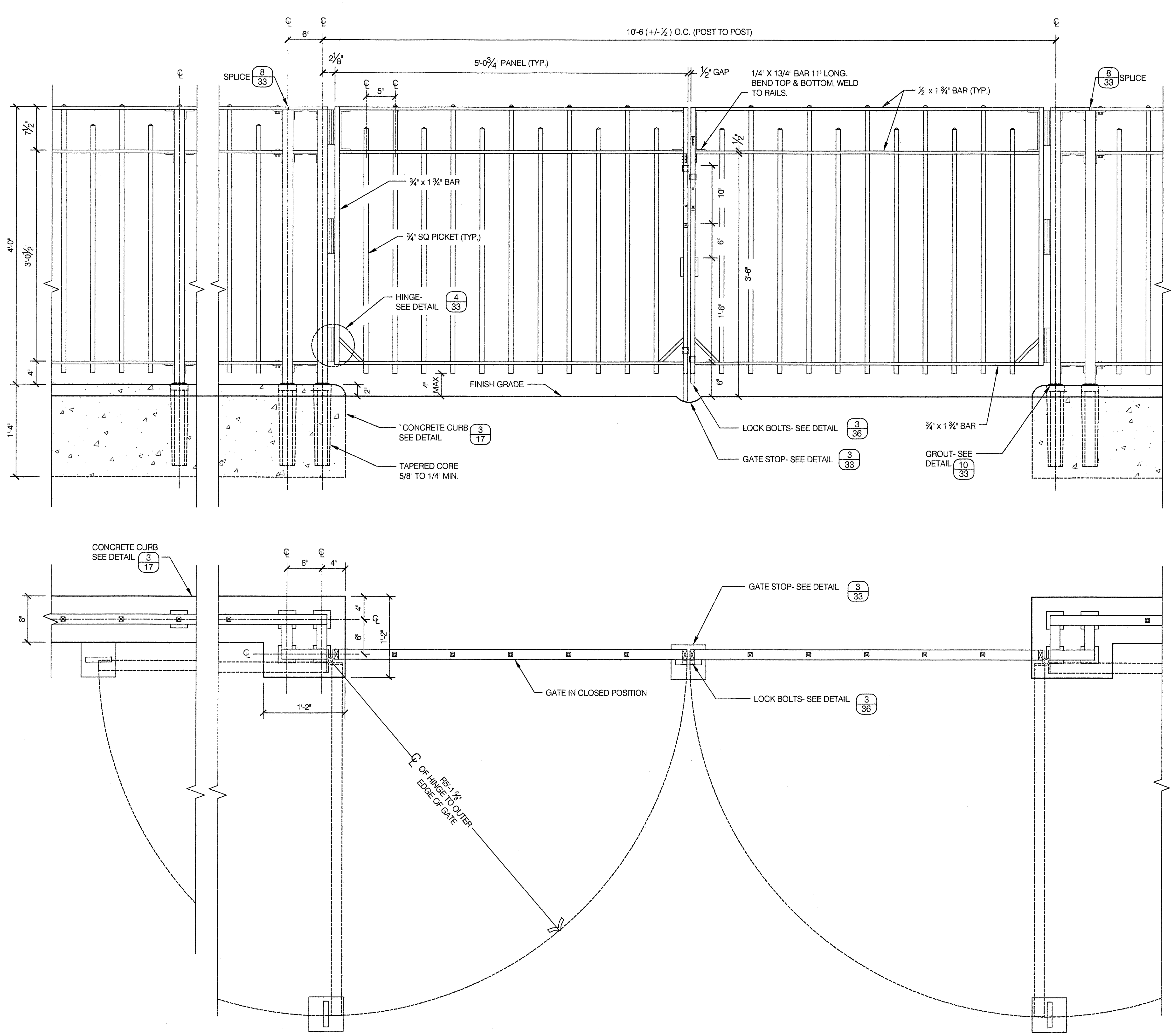
1 SINGLE GATE FOR STEEL FENCE 4'-0" HT

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



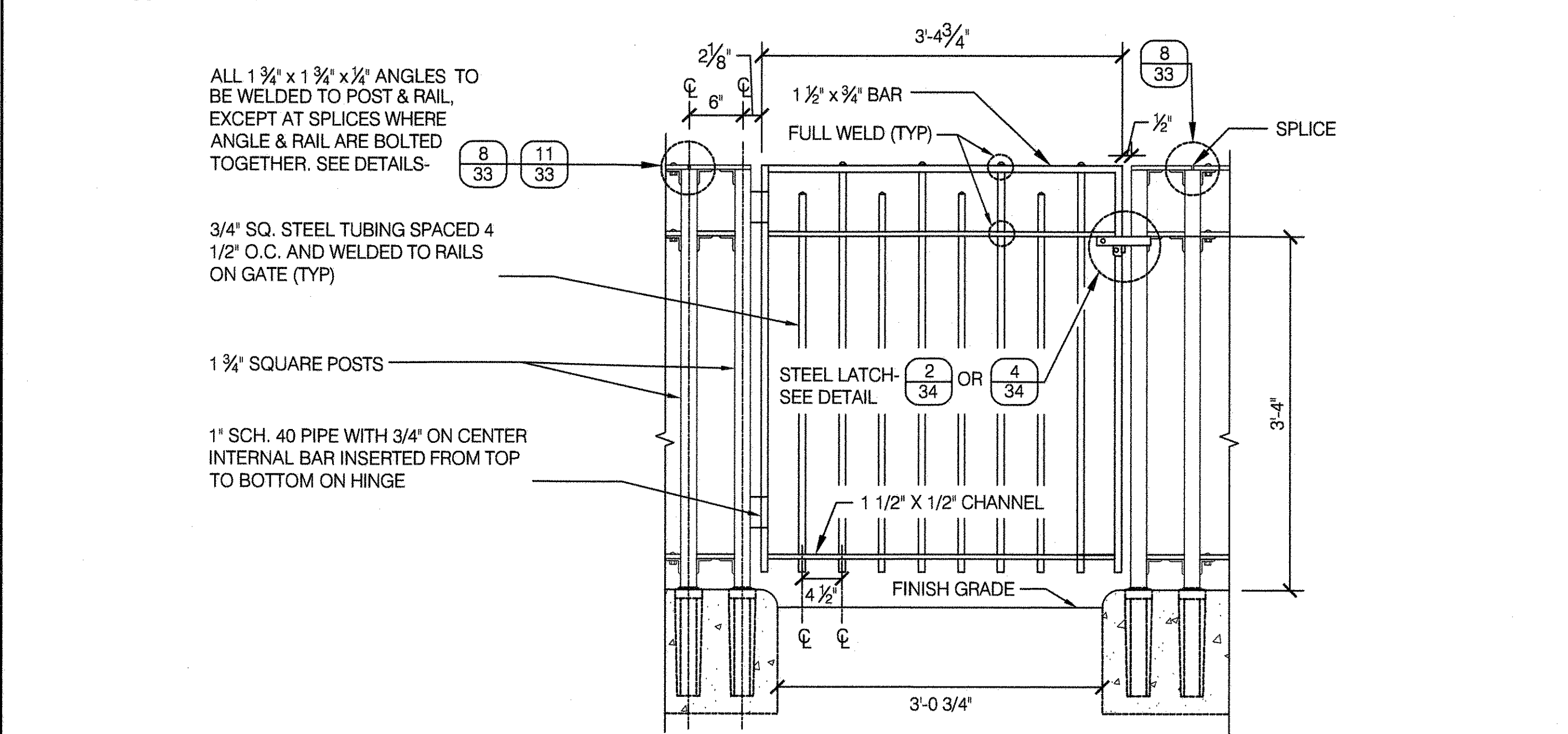
2 DOUBLE GATE FOR STEEL FENCE 4'-0" HT-VEHICULAR ACCESS

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



3 LIGHTWEIGHT SINGLE GATE 4'-0" HT.

SCALE 1" = 1'-0"



NOTE:

1. ALL JOINTS AND CONNECTIONS TO BE WELDED AND GROUND SMOOTH UNLESS OTHERWISE NOTED. ALL WELDS TO BE LINE WELDS AND ALL FILLET WELDS TO BE 3/16".
2. WHEN FENCE IS INSTALLED IN LINE WITH PLAY PANELS OR WHEN CURB REVEAL IS GREATER THAN 12" ON EITHER SIDE OF THE CURB IN A PLAYGROUND, SPACING BETWEEN PICKETS SHALL BE ADJUSTED TO 3 1/2" MAX. ADJUSTED PICKET SPACING SHALL EXTEND A MINIMUM OF 6 FEET ON BOTH SIDES OF THE PLAY PANEL OR CURB REVEAL.



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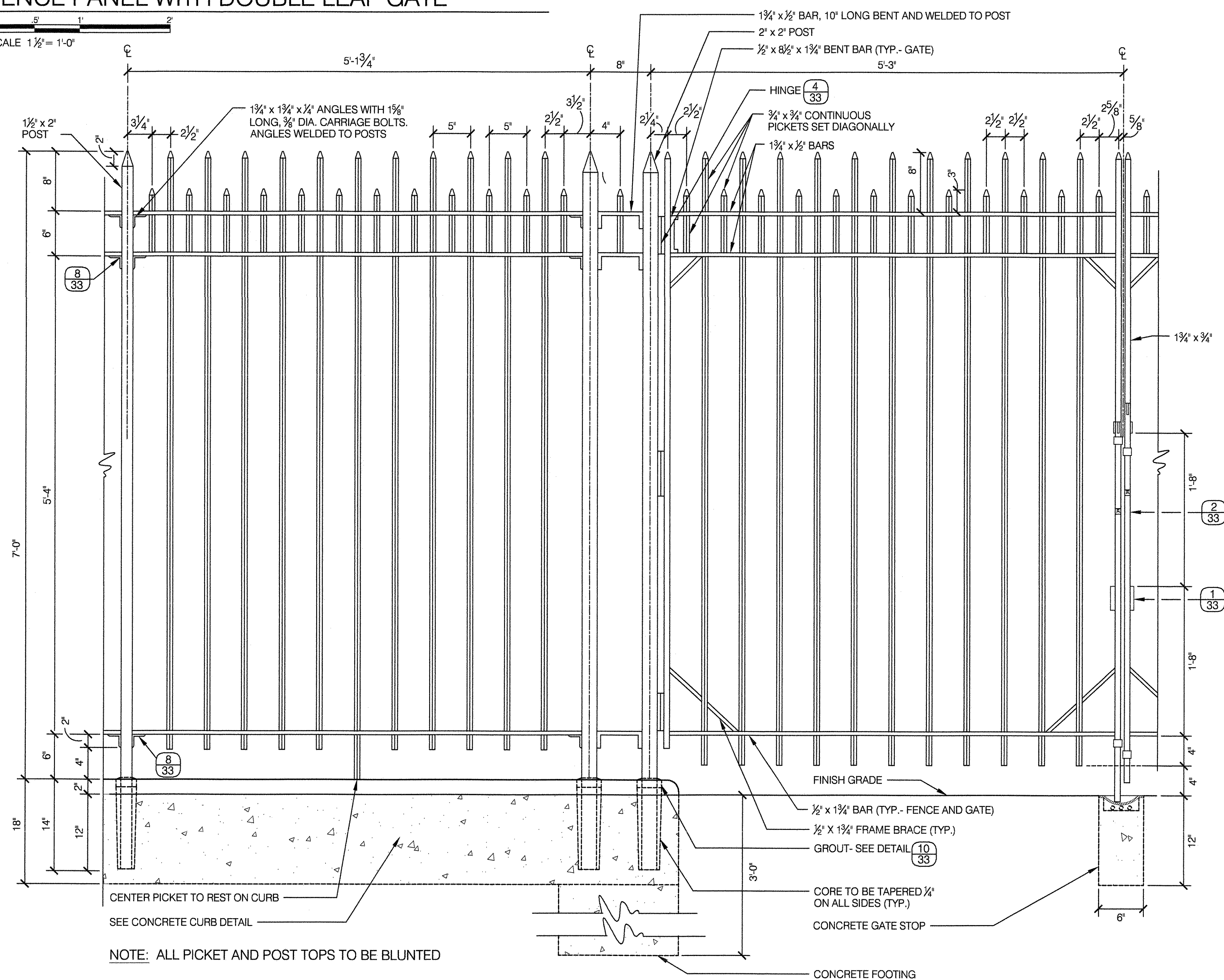
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DRAWING TITLE
4'-0" HT. STEEL FENCE



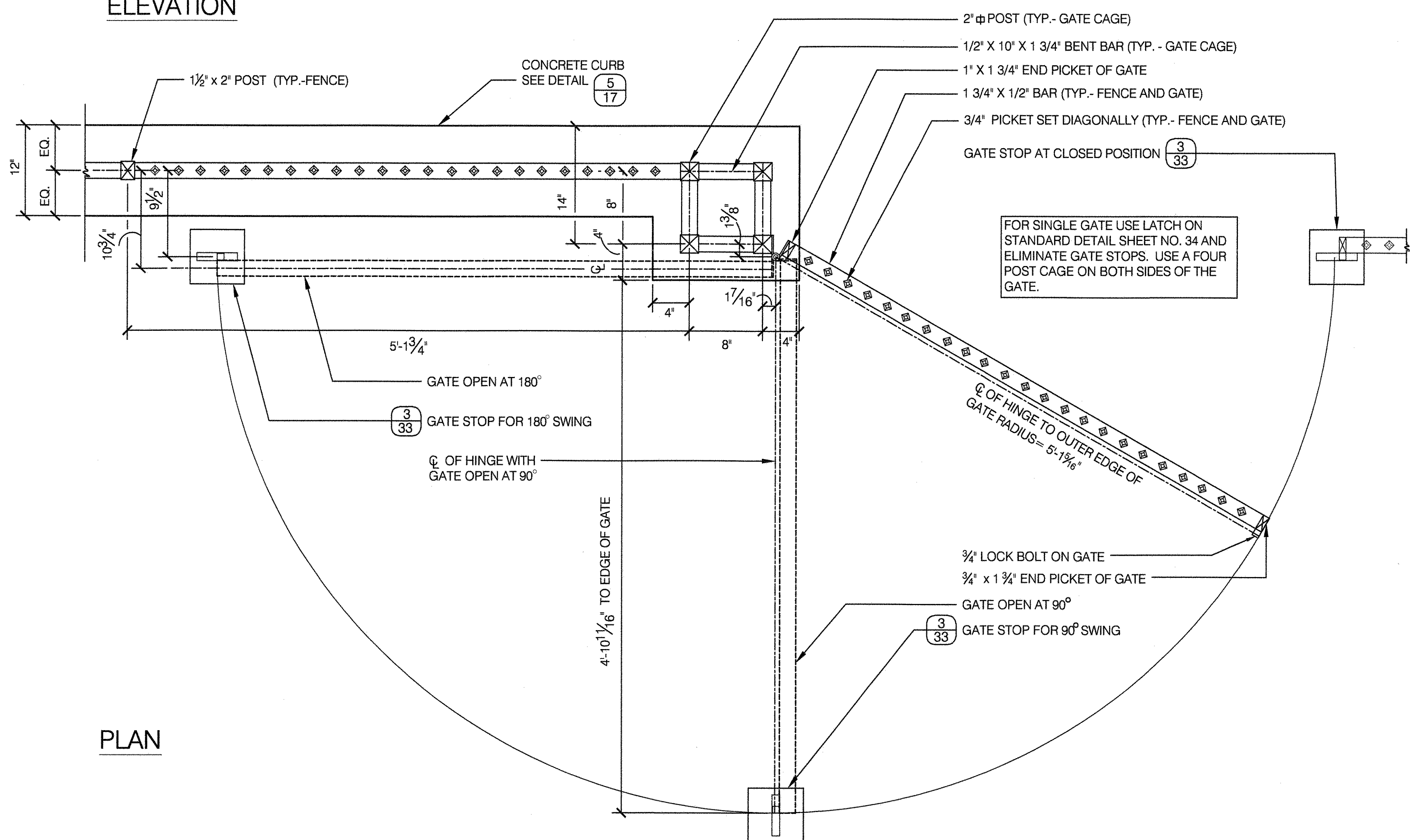
DRAWN BY K. MOULTHROP	CHECKED BY R. WEI, PE
APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR	SHEET NO. 35
DATE 09-01-2020	SCALE AS SHOWN

1 FENCE PANEL WITH DOUBLE LEAF GATE

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



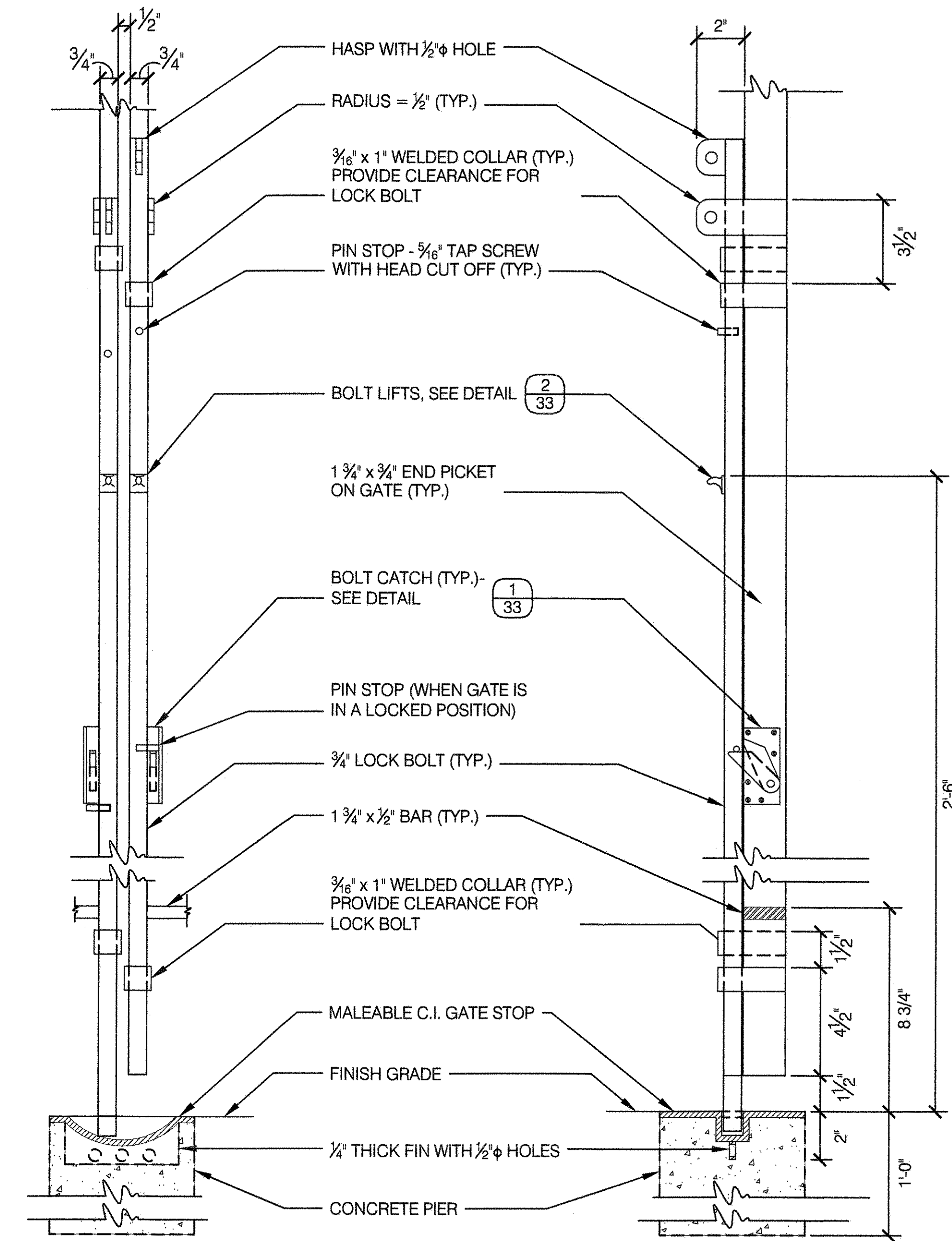
ELEVATION



PLAN

2 LOCK BOLTS ON DOUBLE GATES

SCALE 3" = 1'-0"



FRONT ELEVATION

SIDE ELEVATION

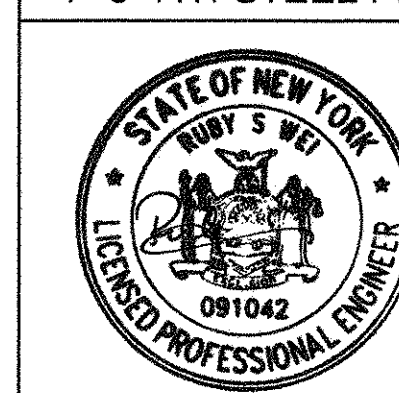
NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE NEW 7'-0" HT. STEEL PICKET FENCE IN ACCORDANCE WITH DPR STANDARD DETAILS. ALL HARDWARE AND CONNECTIONS SHALL BE CONSISTENT WITH DPR STANDARDS.
2. TOPS OF PICKETS SHALL BE BLUNTED.



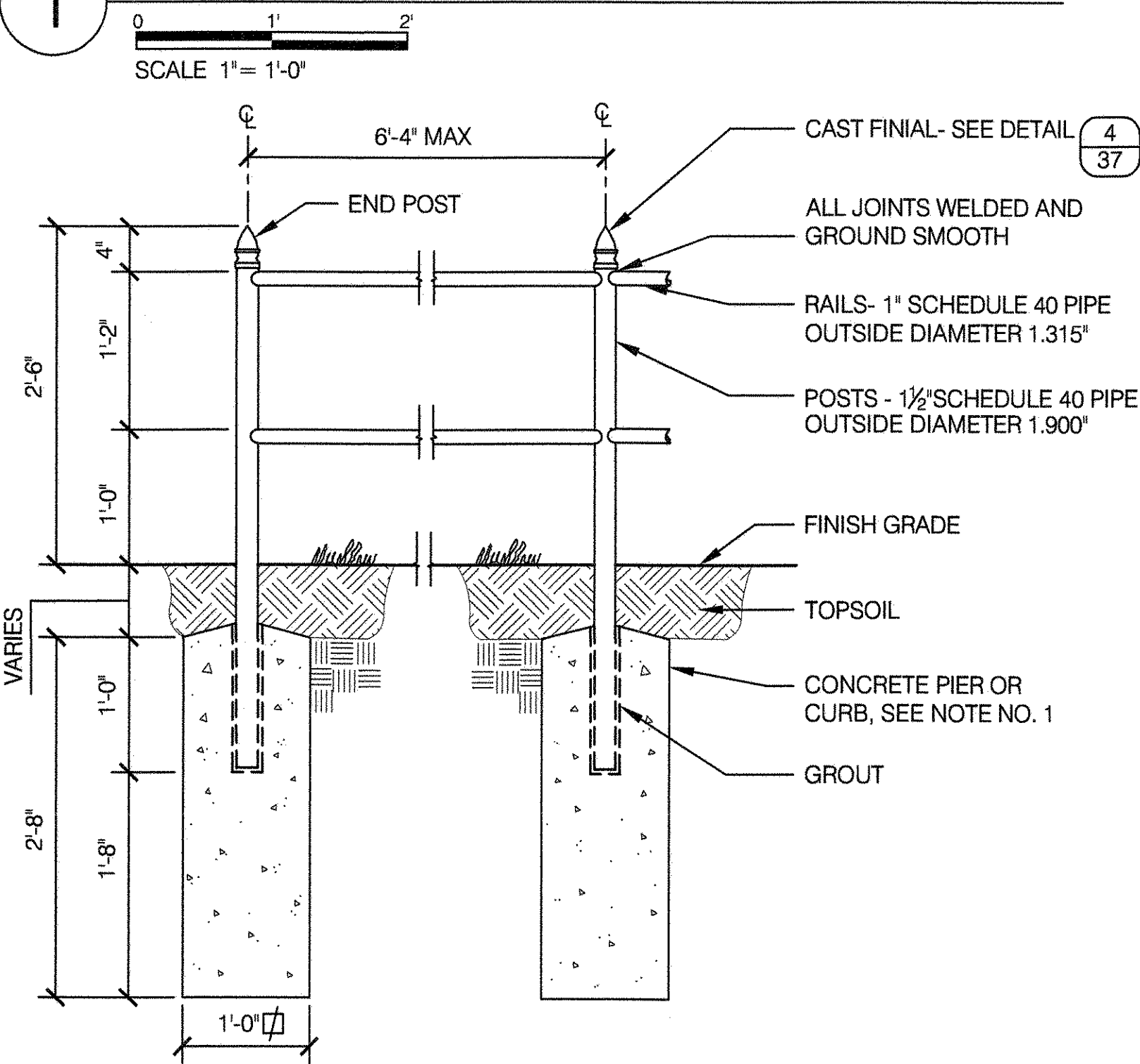
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DRAWING TITLE
7'-0" HT. STEEL FENCE AND GATES

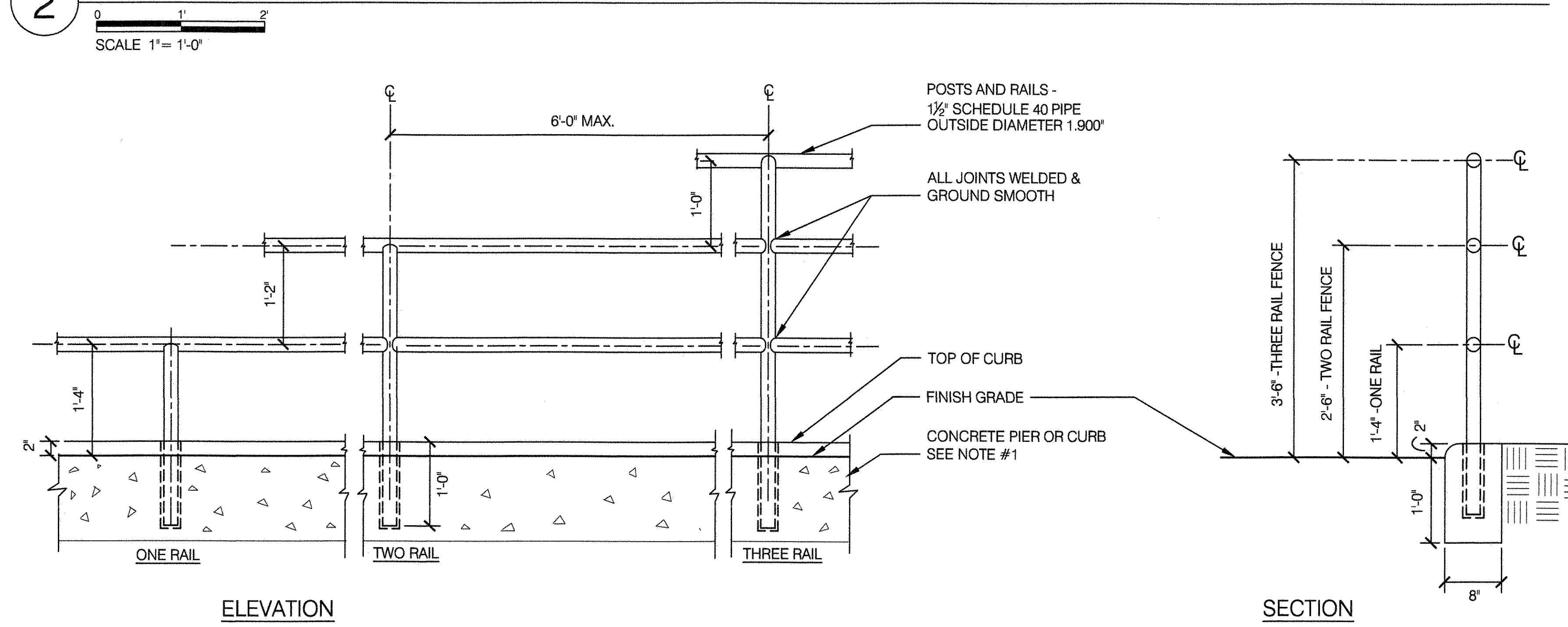


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APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 36
	SCALE AS SHOWN

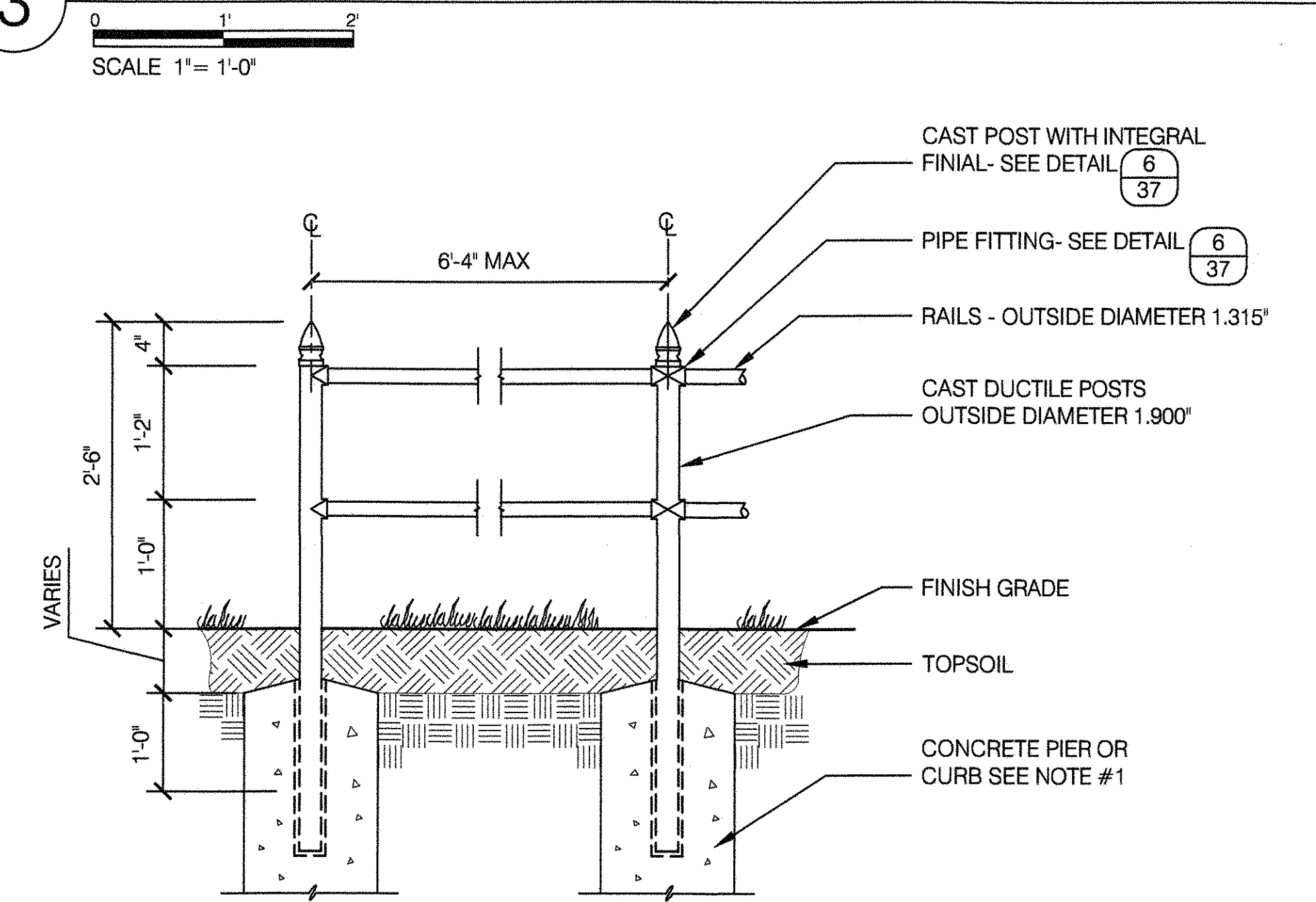
1 PIPE RAIL FENCE TYPE A



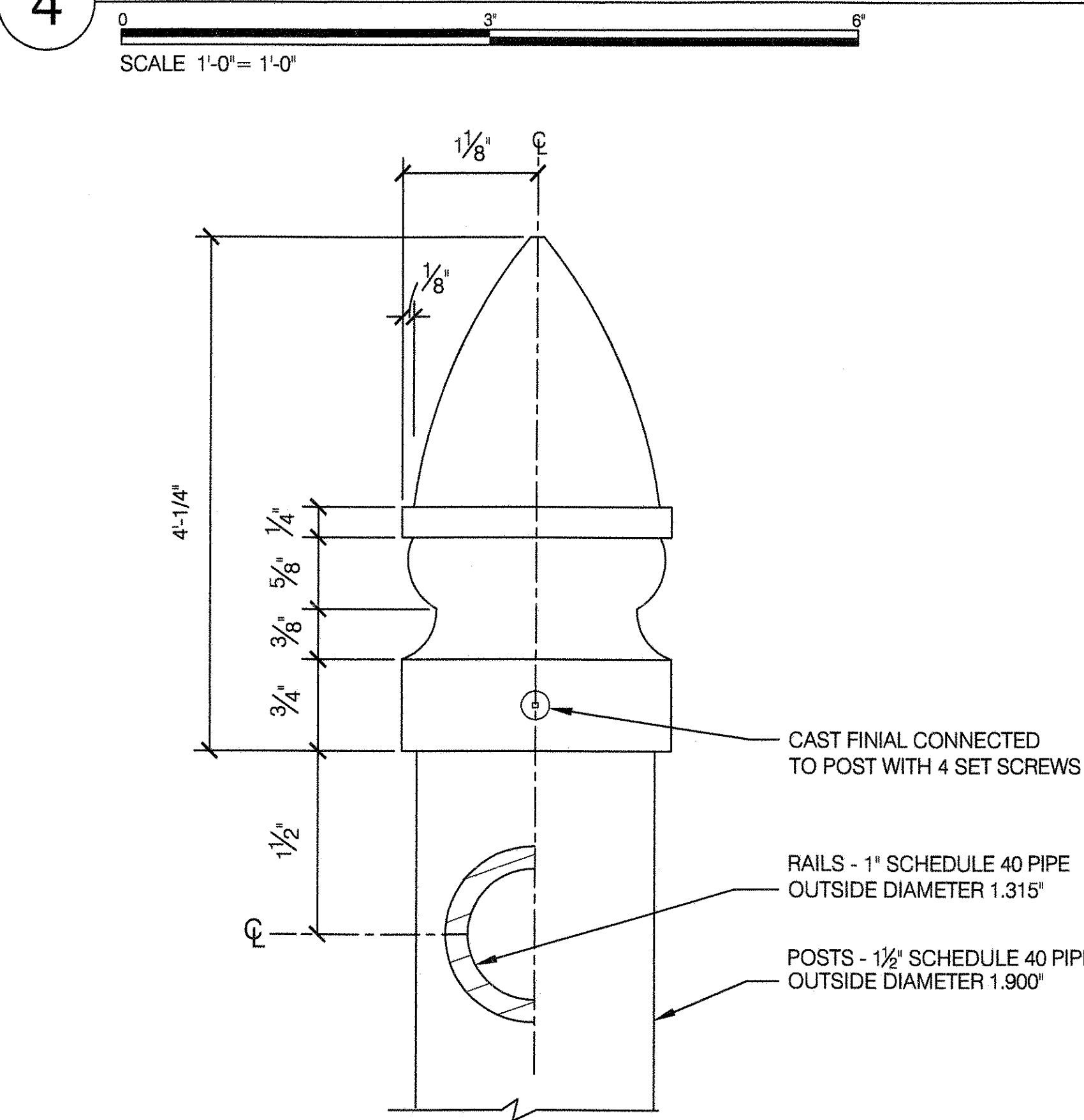
2 PIPE RAIL FENCE- TYPE B (ONE, TWO OR THREE RAIL)



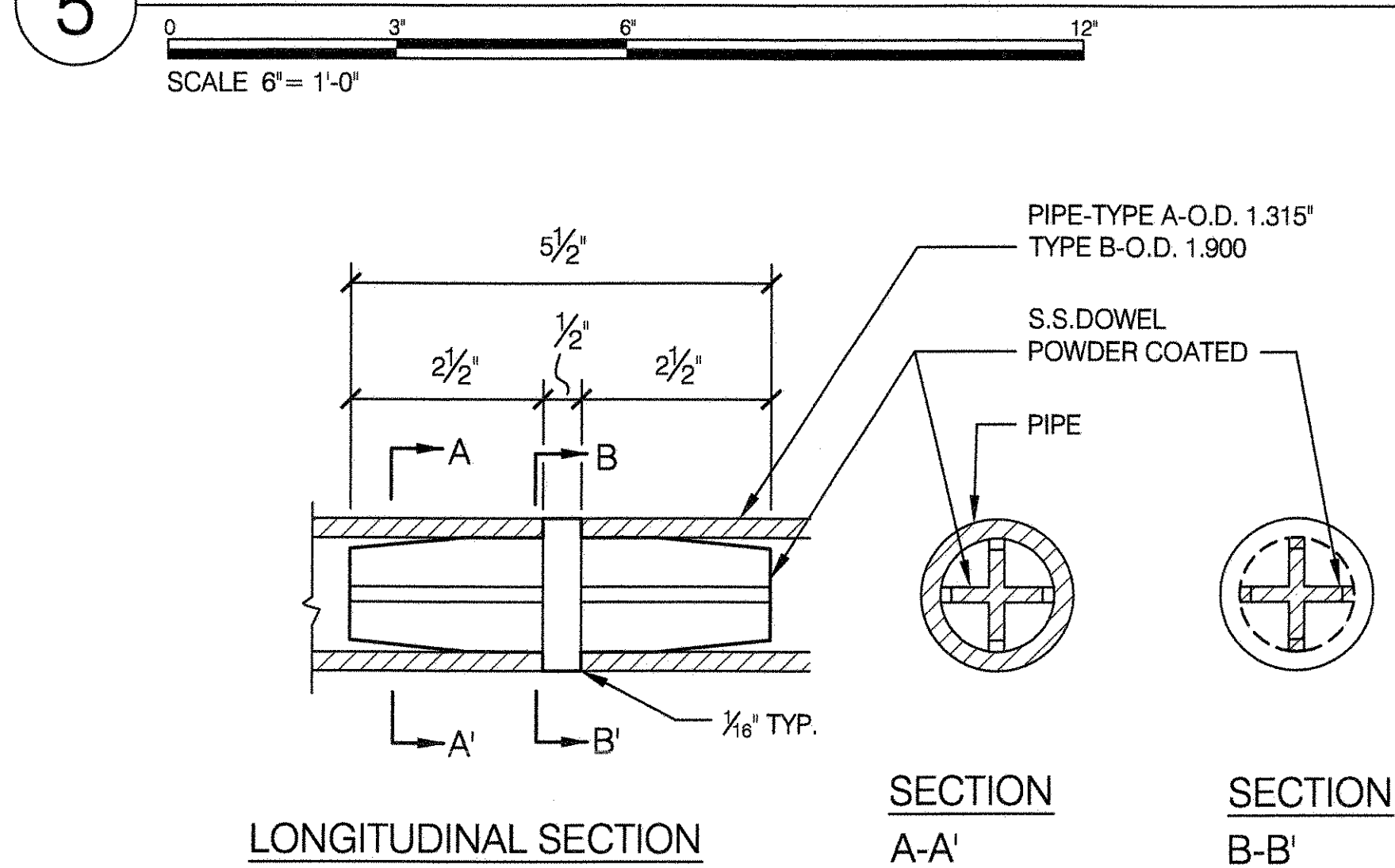
3 PIPE RAIL FENCE - TYPE C CAST DUCTILE IRON POST WITH FINIAL



4 CAST FINIAL FOR TYPE A

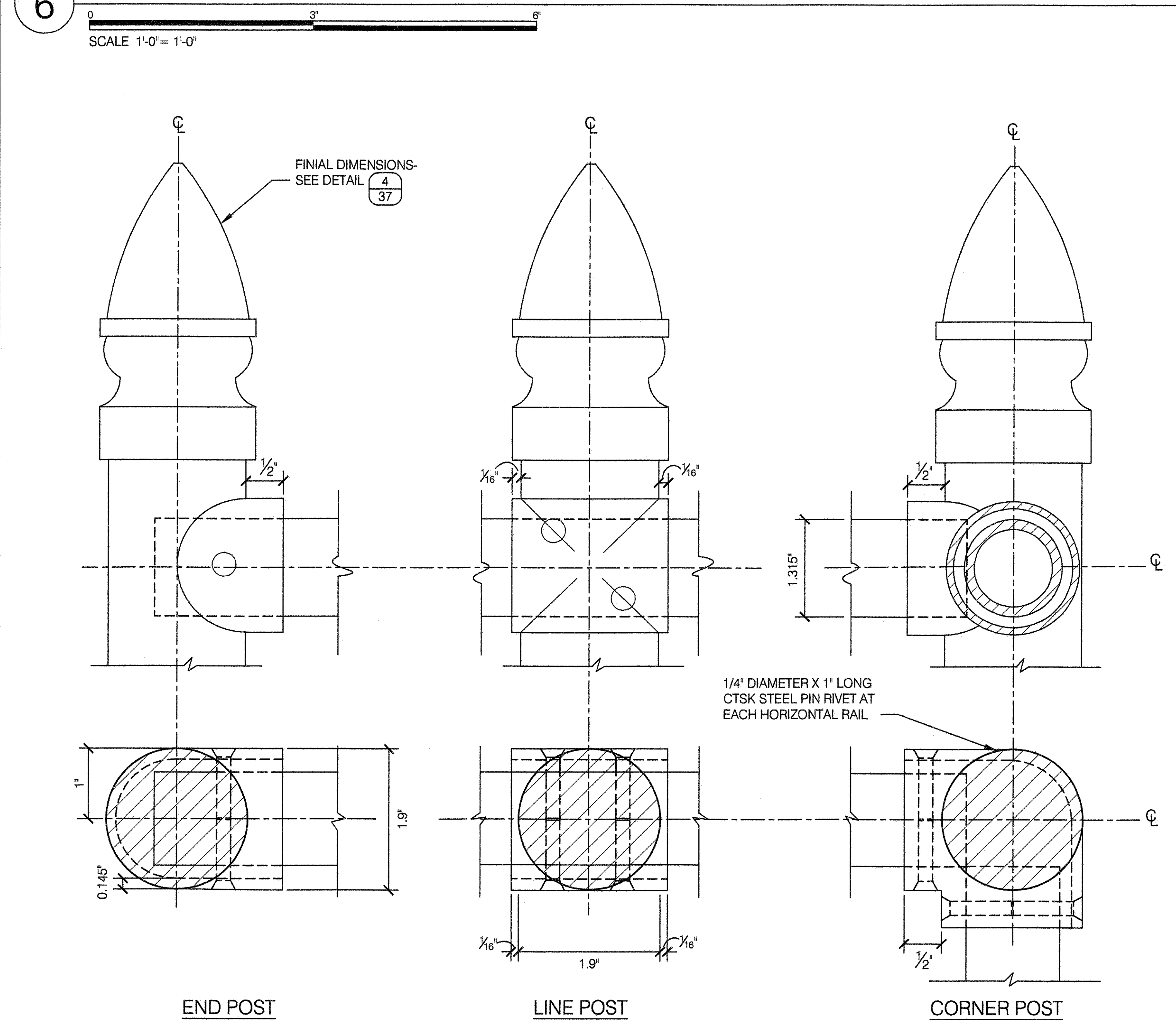


5 SPLICE DETAIL

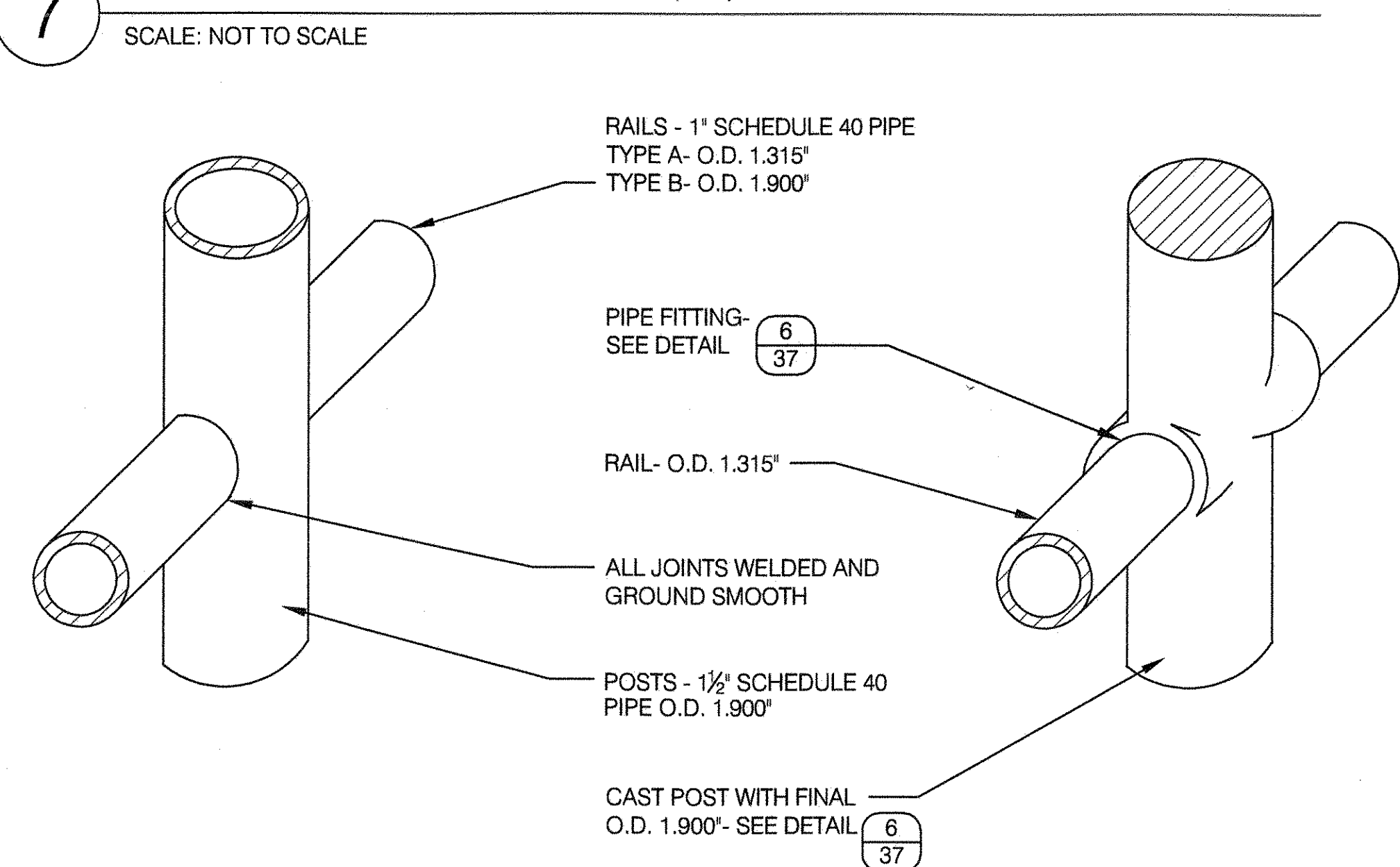


NOTE: DOWELS TO BE PLACED AT MAX. 20' INTERVALS

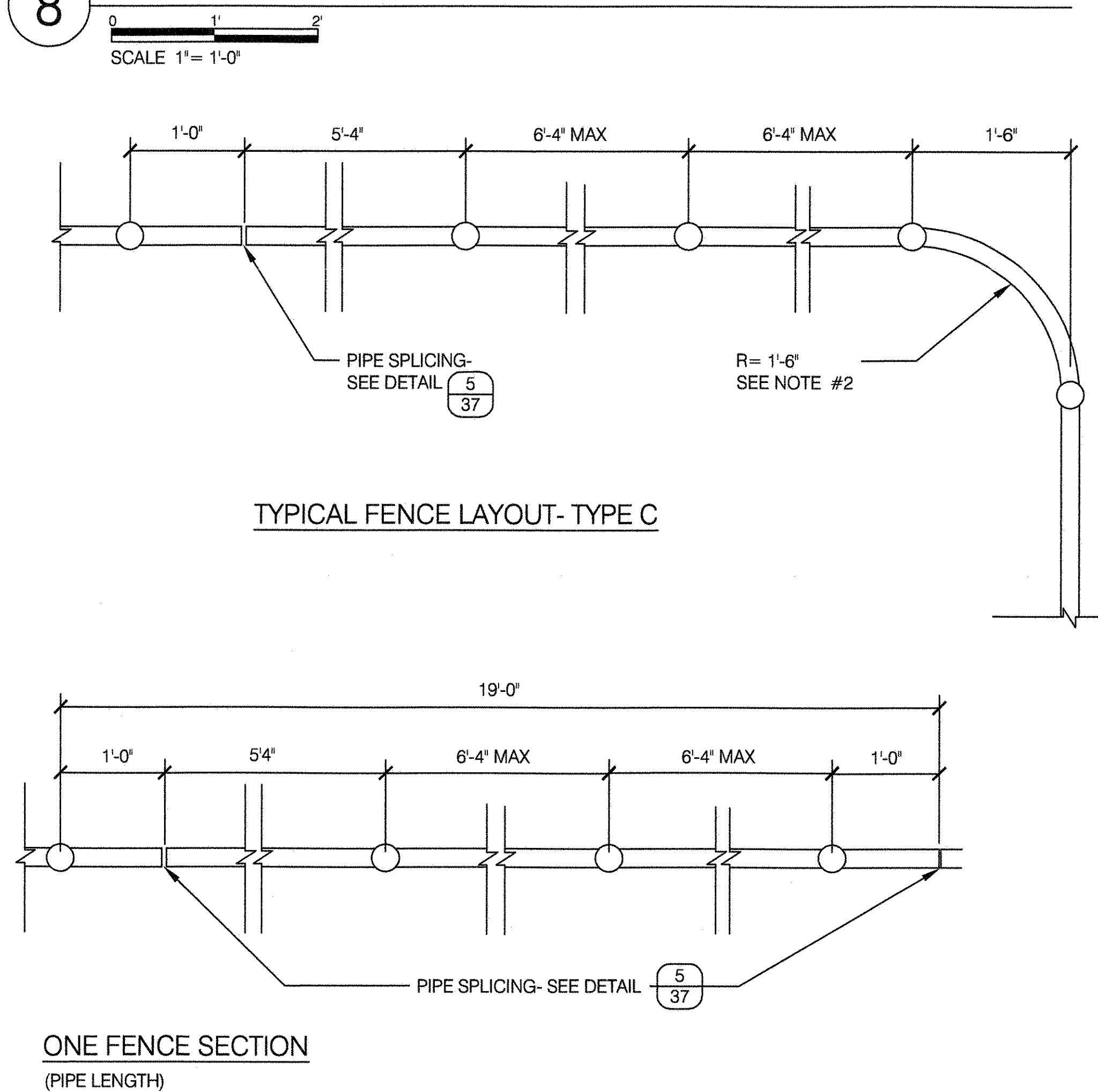
6 PIPE RAIL FENCE C - PIPE RAIL FITTING PLAN



7 PIPE FITTING ISOMETRIC FOR PIPE RAIL FENCE - TYPE A,B,C



8 TYPICAL FENCE LAYOUT- TYPE C SPLICING AND CORNER CONDITION



a PIPE POST (A & B) **b** CAST POST (C)

NOTES:

- SEE STANDARD DETAILS SHEET No.17 FOR CONCRETE CURB OR PIER DETAIL.
- SPLICE SHALL NOT OCCUR ON CURVE UNLESS OTHERWISE NOTED ON THE PLANS.



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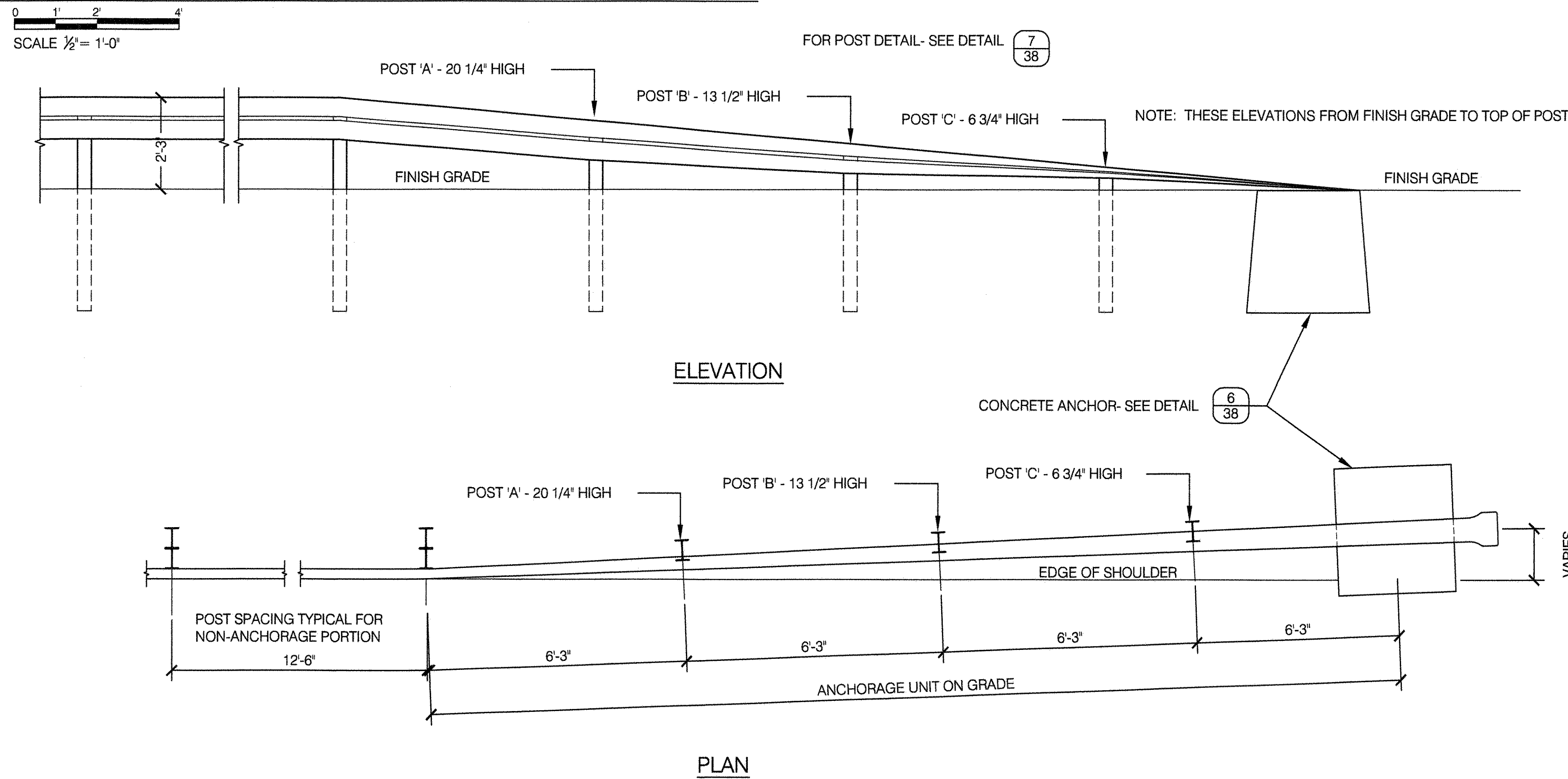
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DRAWING TITLE
PIPE RAIL FENCE

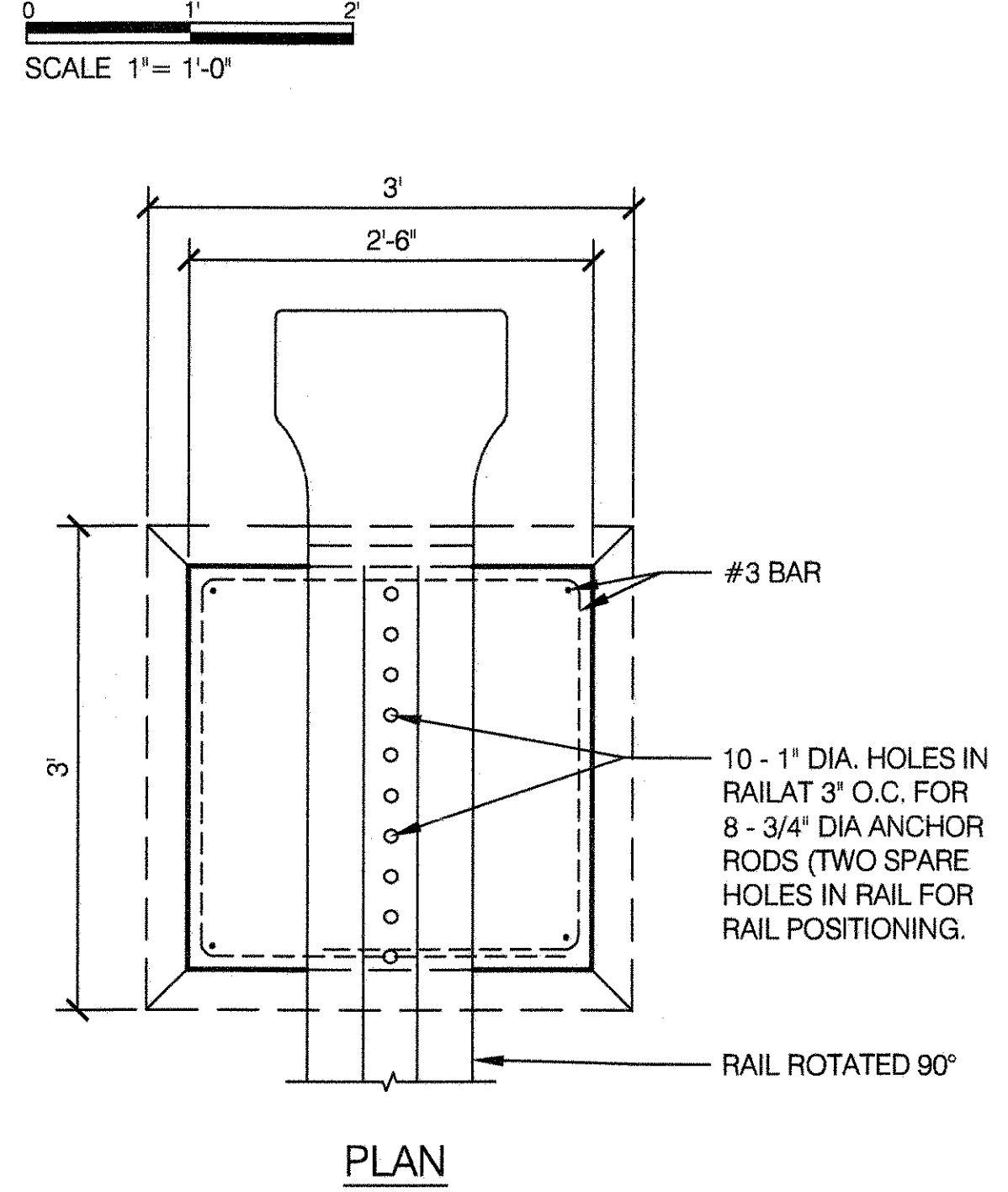


DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 37
DATE 09-01-2020	SCALE AS SHOWN

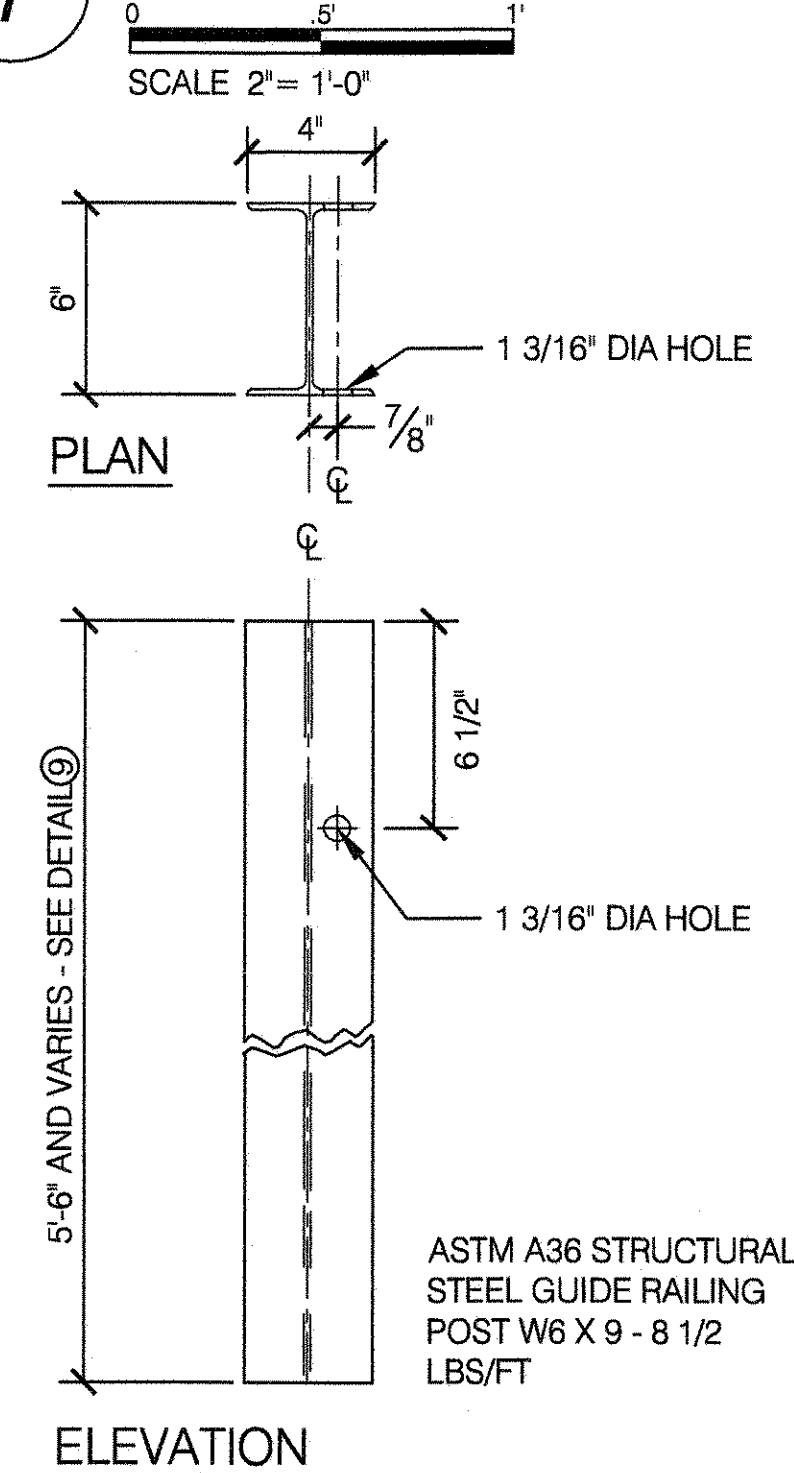
1 GUIDE RAIL ANCHORAGE UNIT



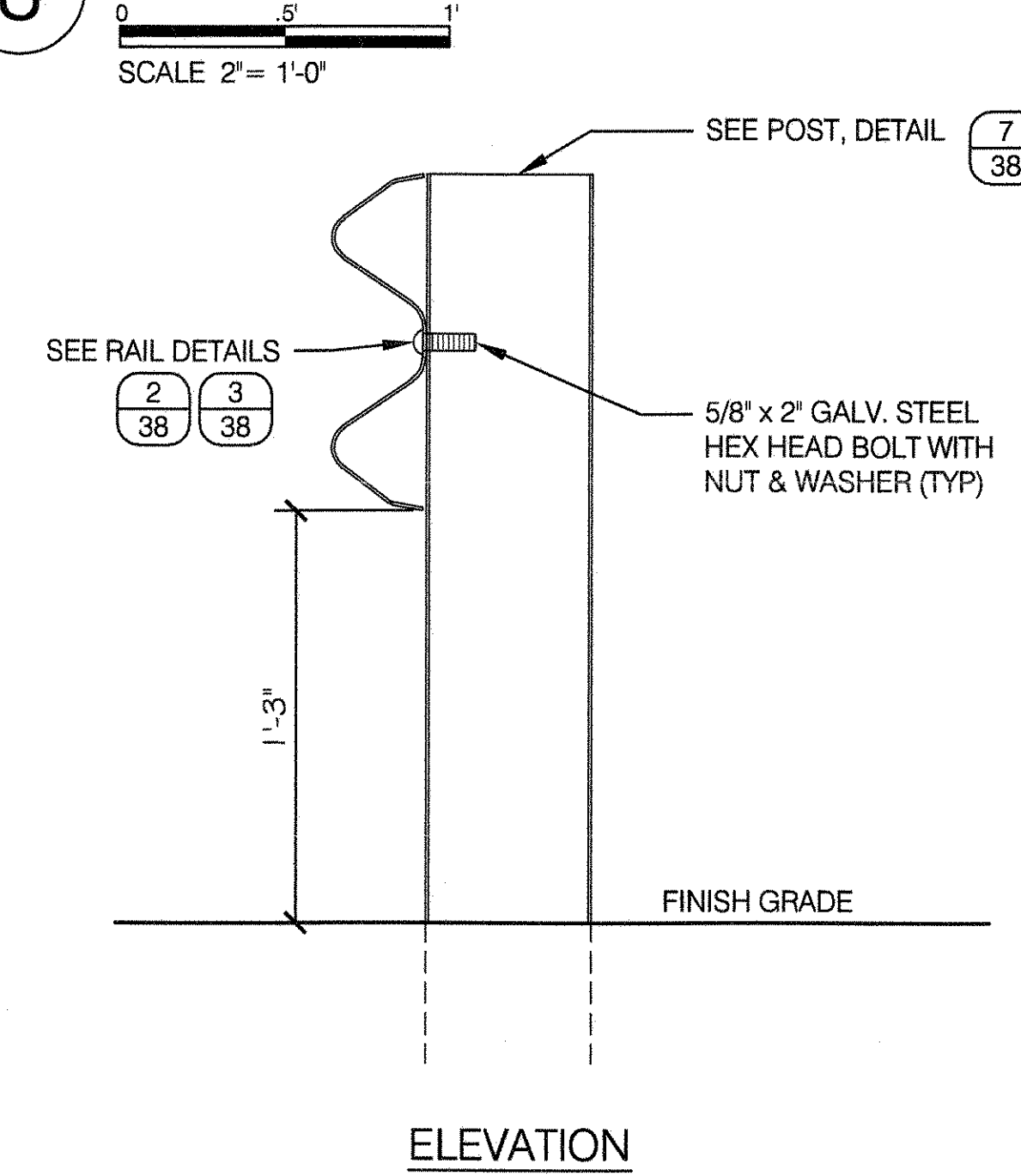
6 CONCRETE ANCHOR



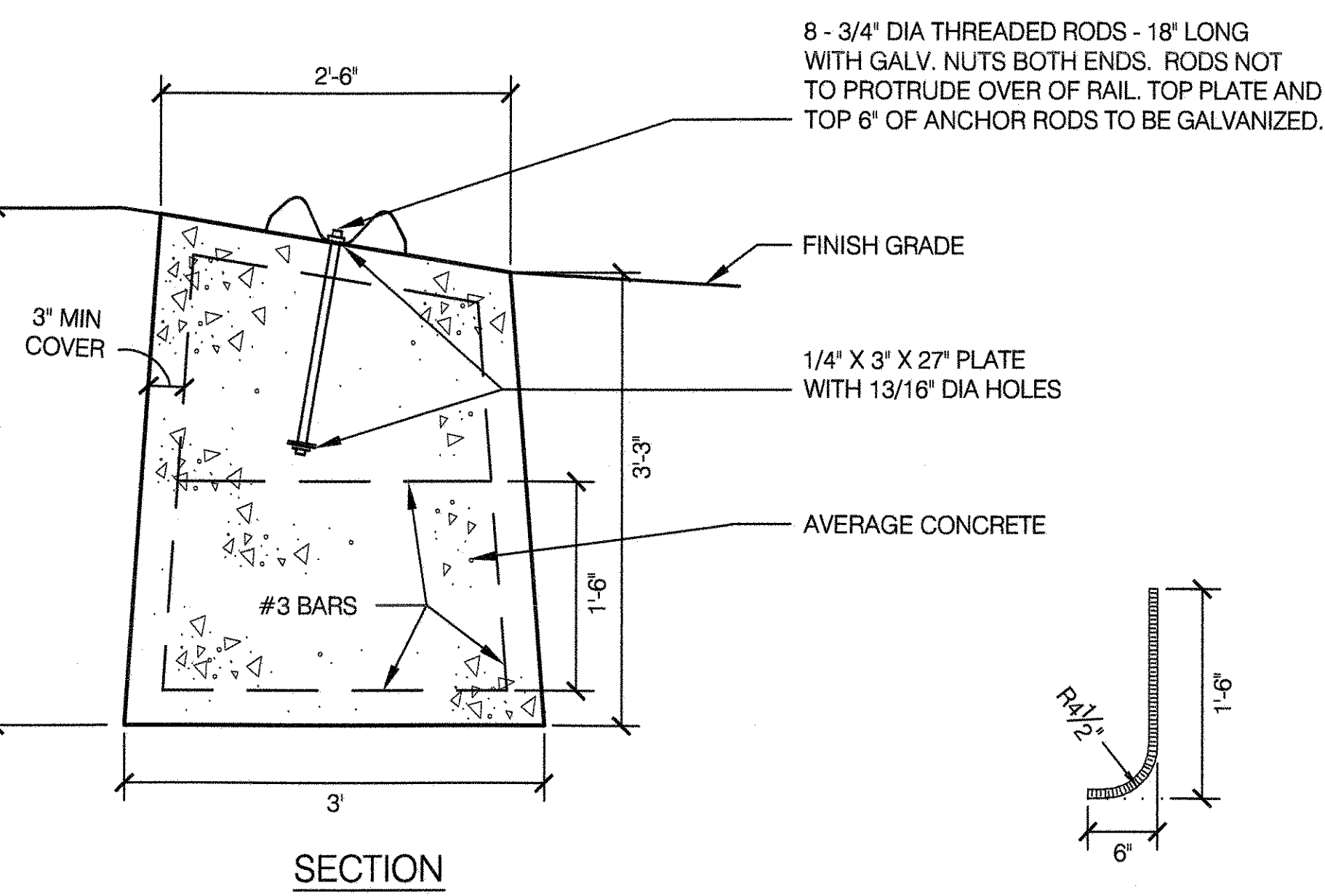
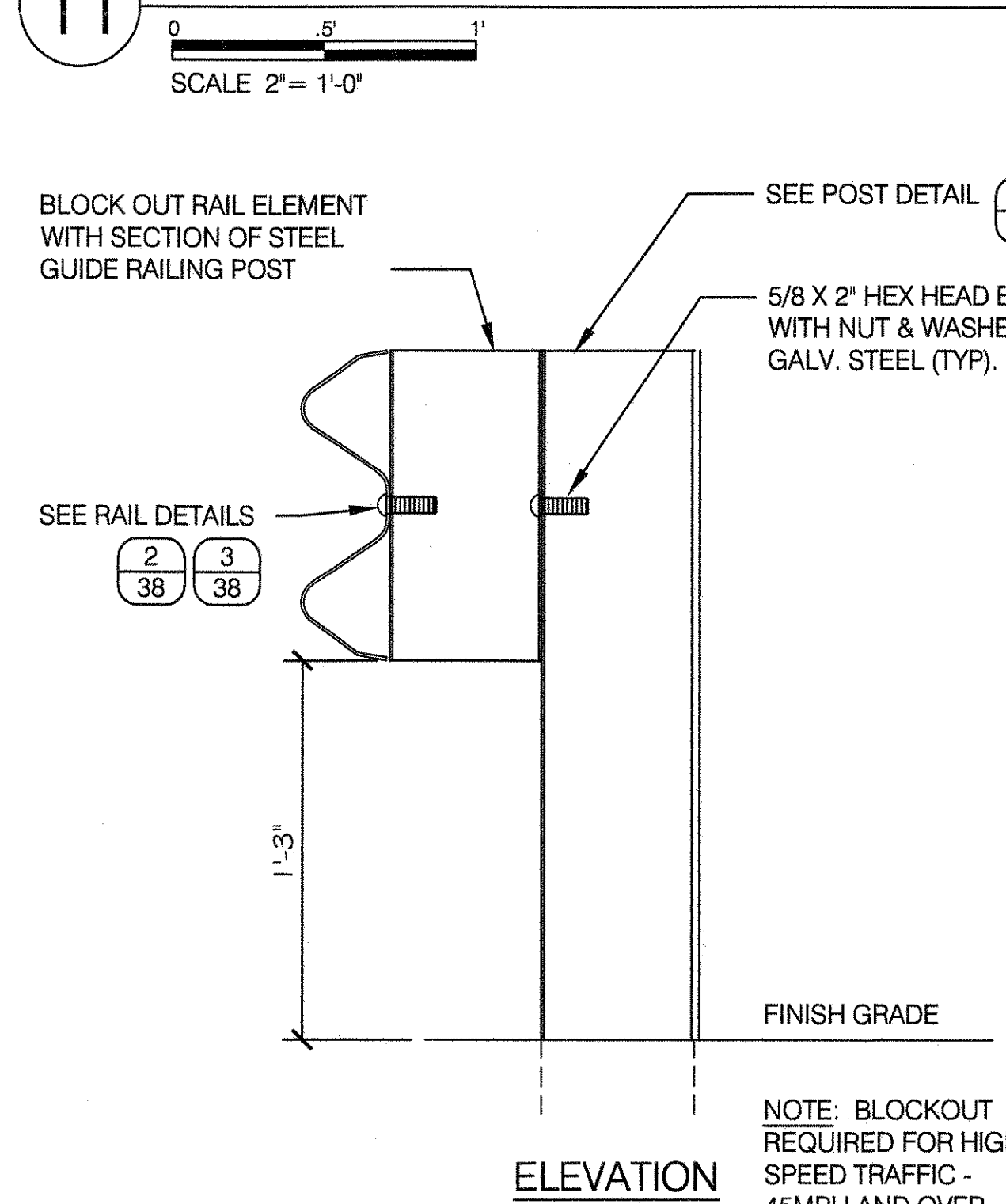
7 POST DETAIL



8 TRANSVERSE SECTION



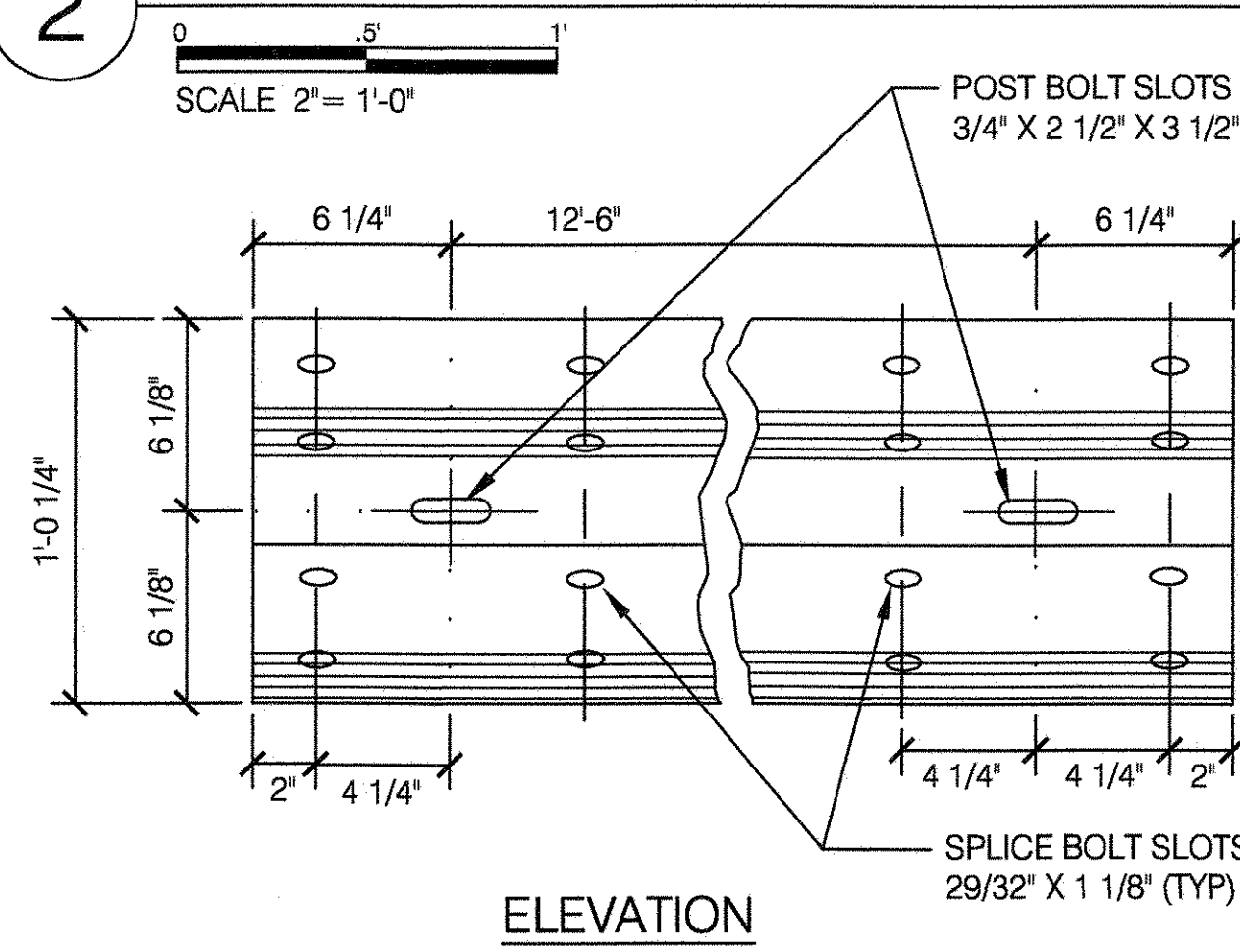
11 TRANSVERSE SECTION BLOCKED OUT



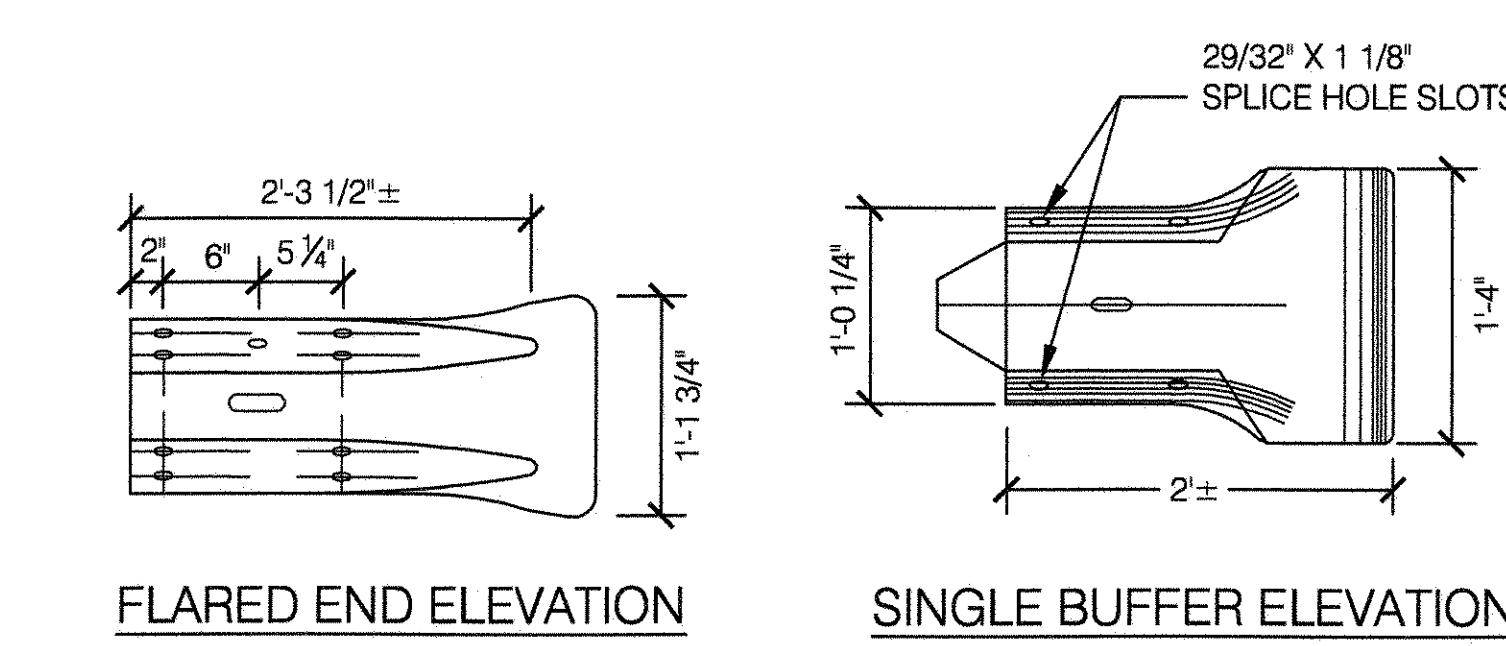
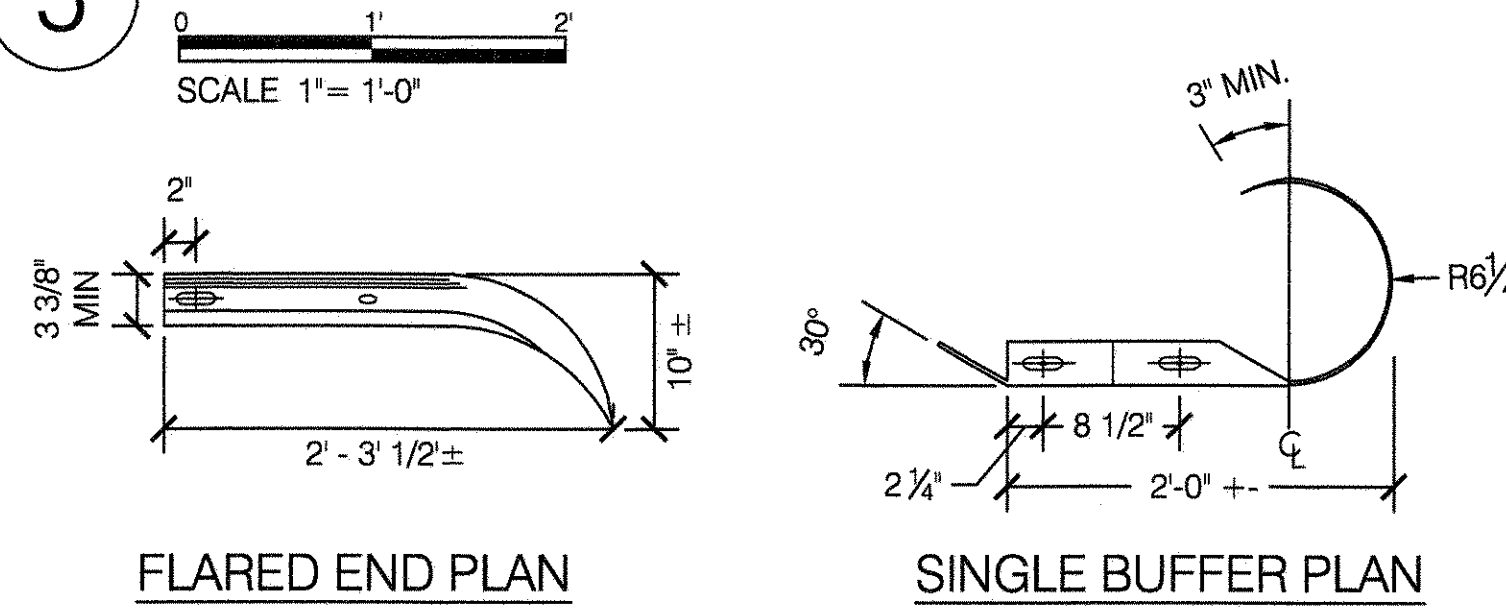
- NOTES:**
- ALTERNATE 3/4\"/>
 - ENTIRE ANCHOR STUD SHALL BE THREADED.

ALTERNATE 3/4\"/>

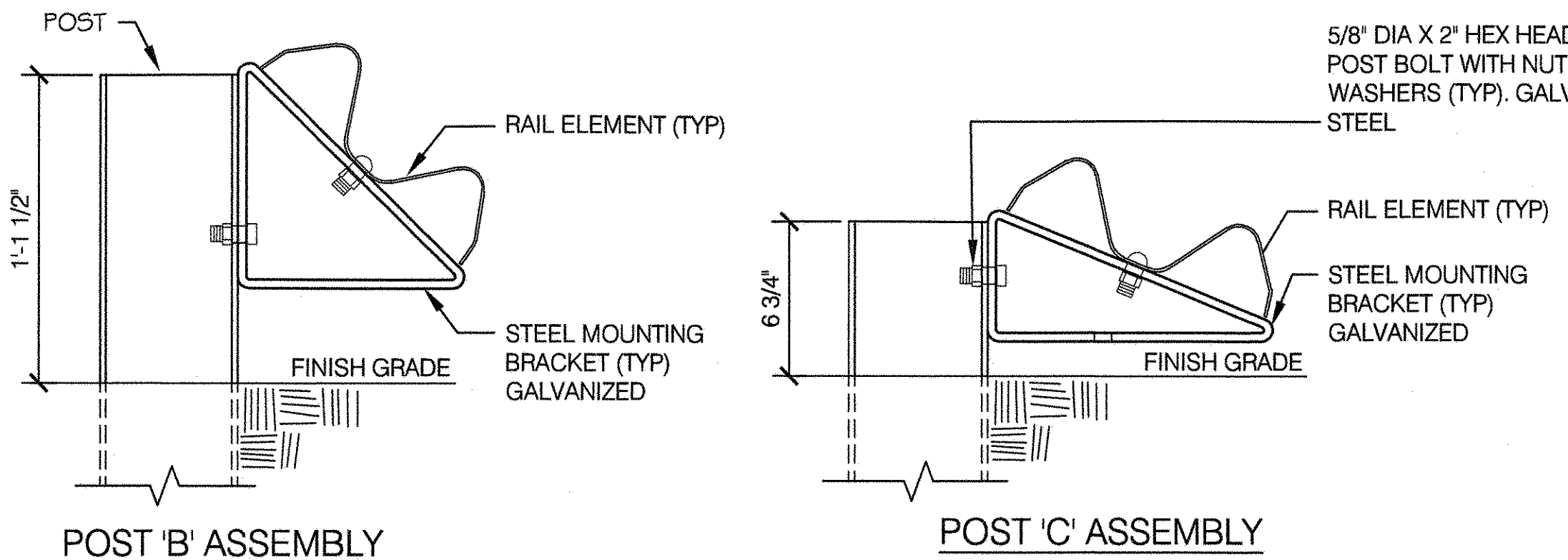
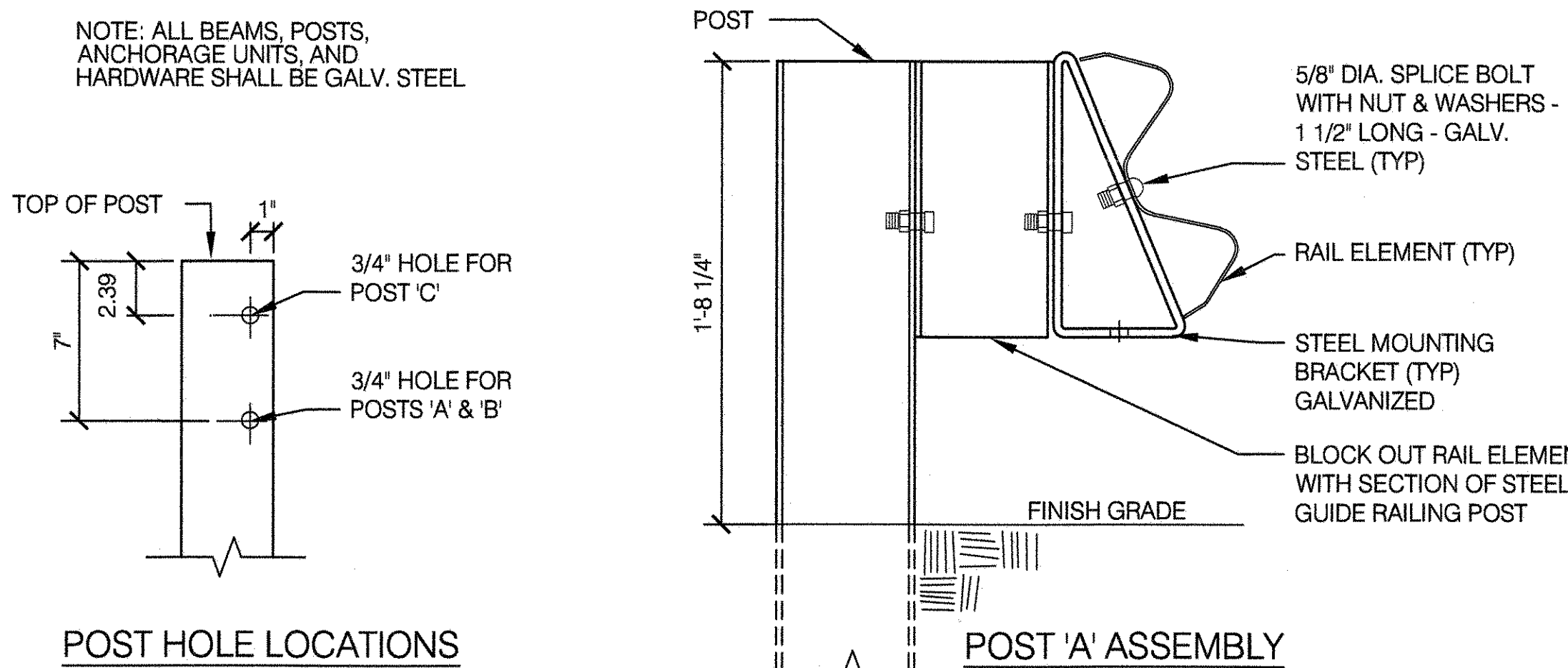
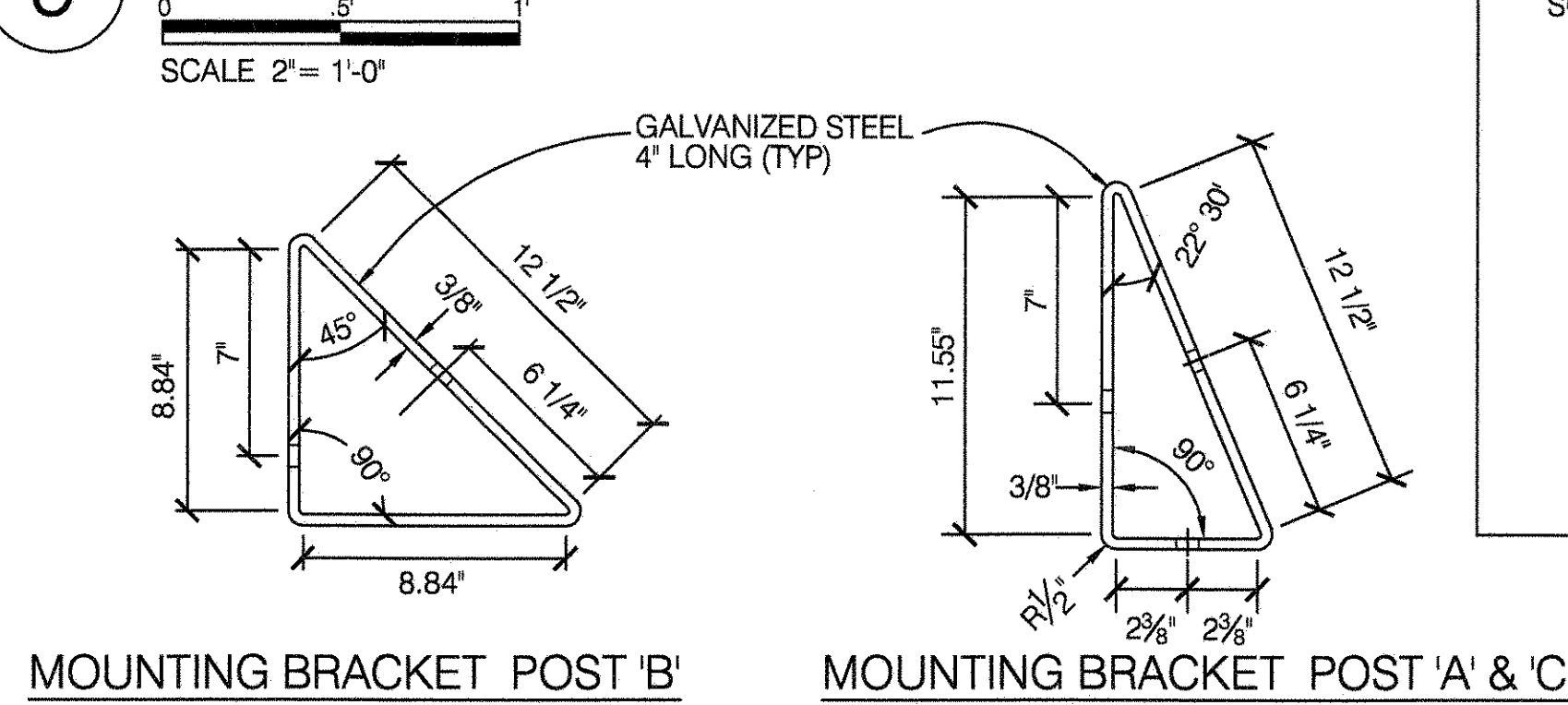
2 RAIL DETAIL



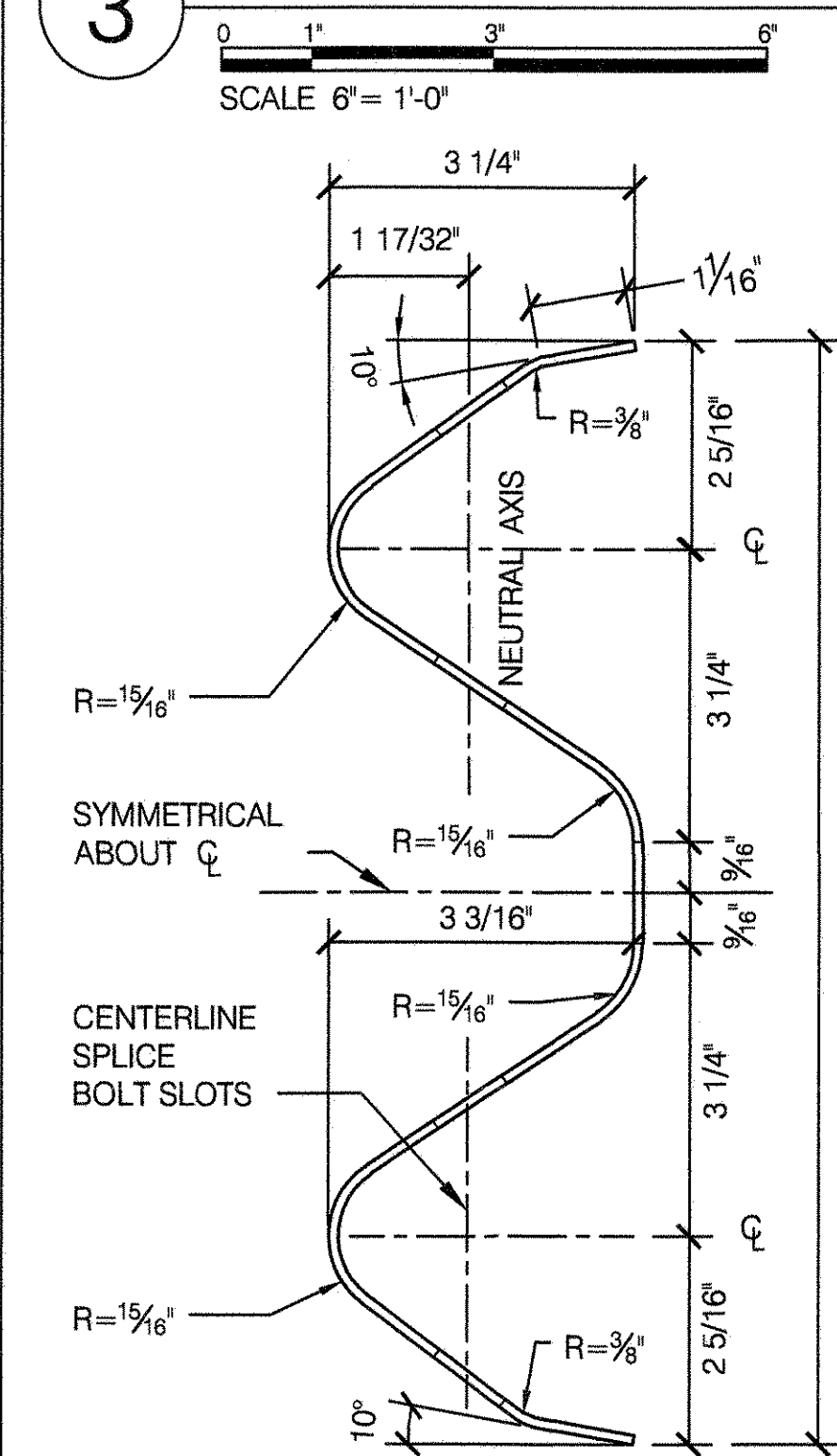
5 TERMINAL SECTIONS



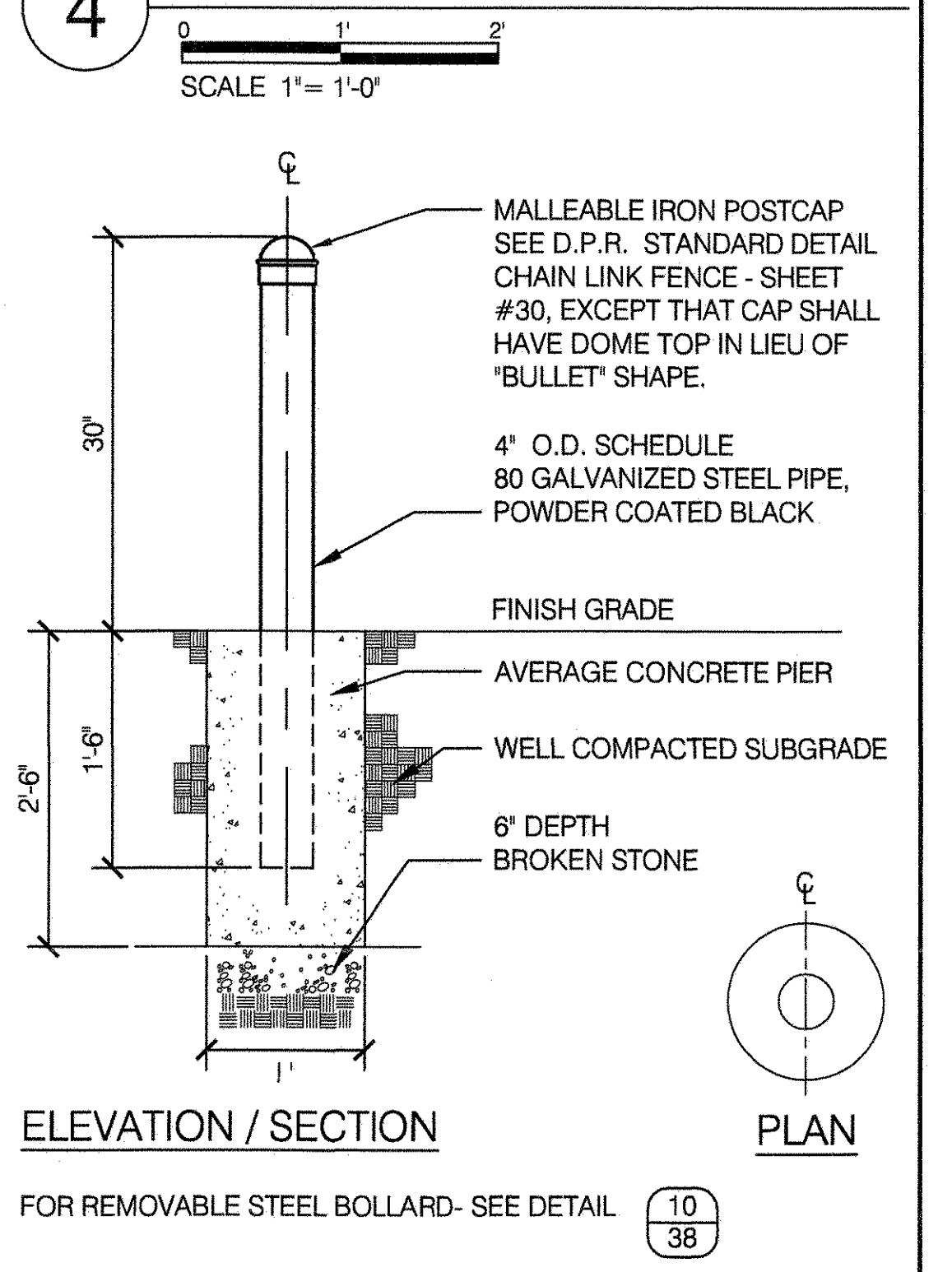
9 RAIL ASSEMBLY FOR ANCHORAGE UNIT



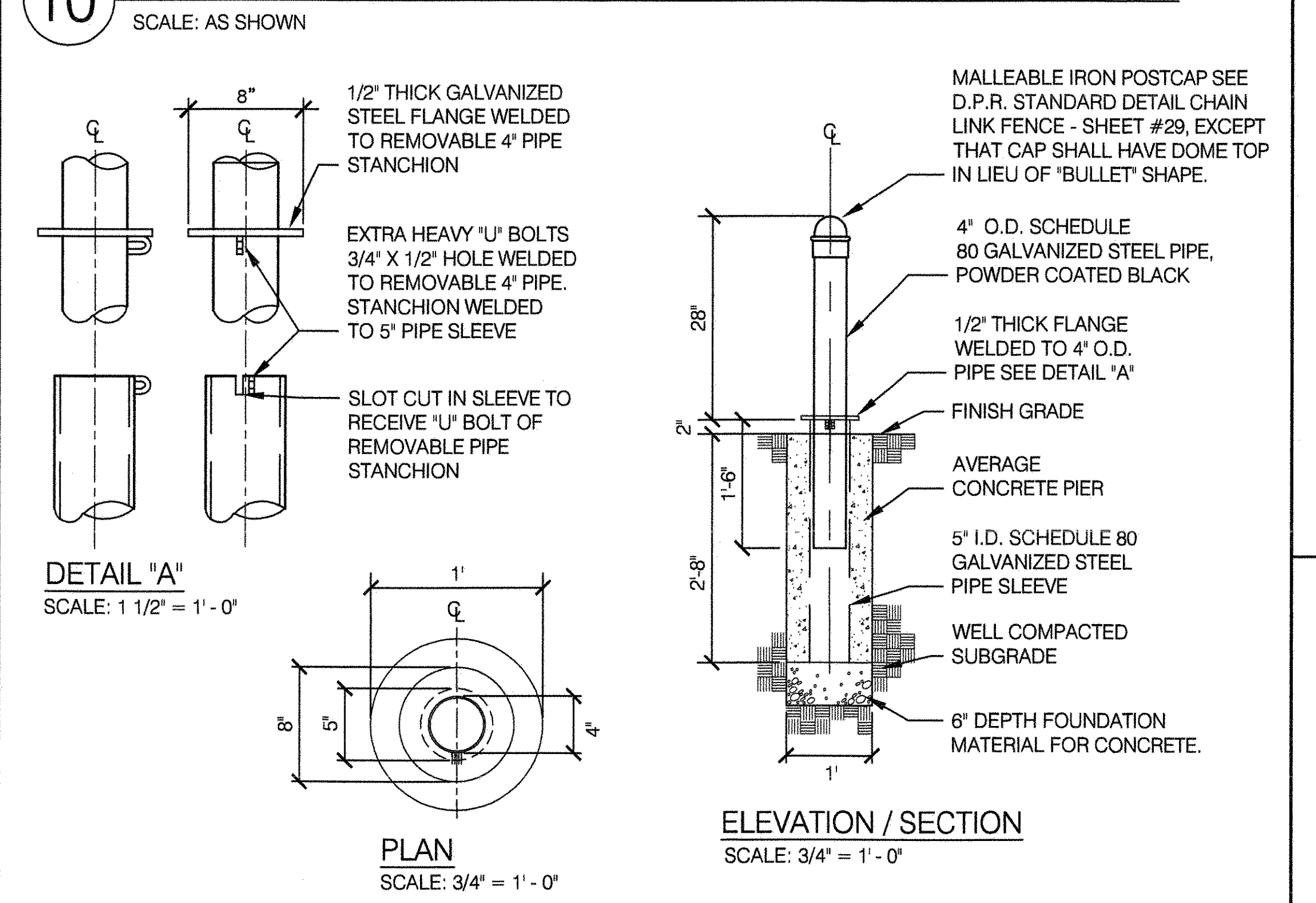
3 RAIL ELEMENT



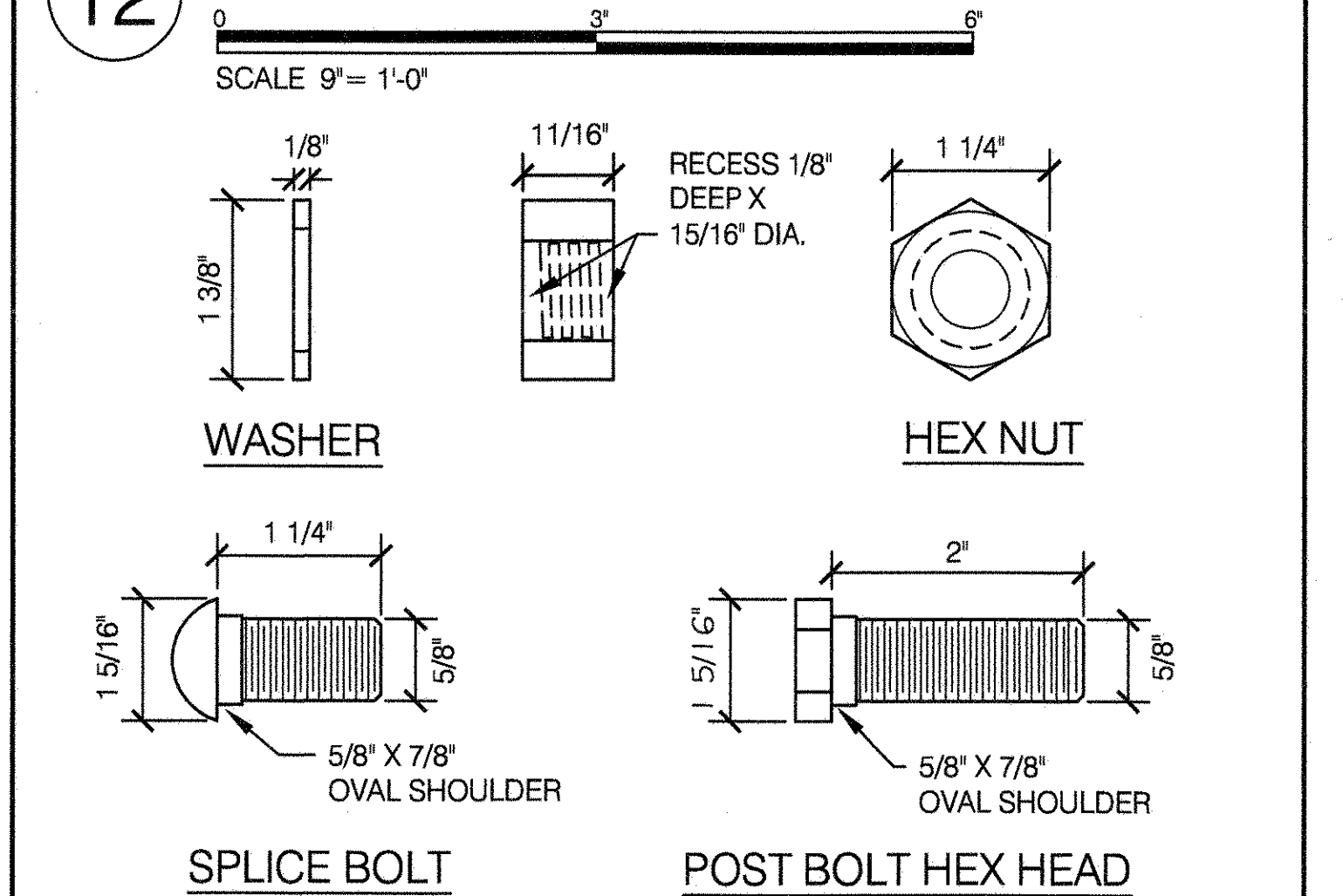
4 FIXED STEEL BOLLARD



10 REMOVABLE STEEL BOLLARD



12 HARDWARE

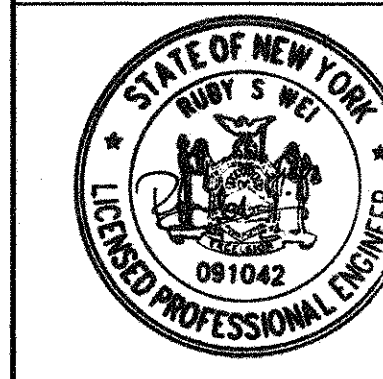


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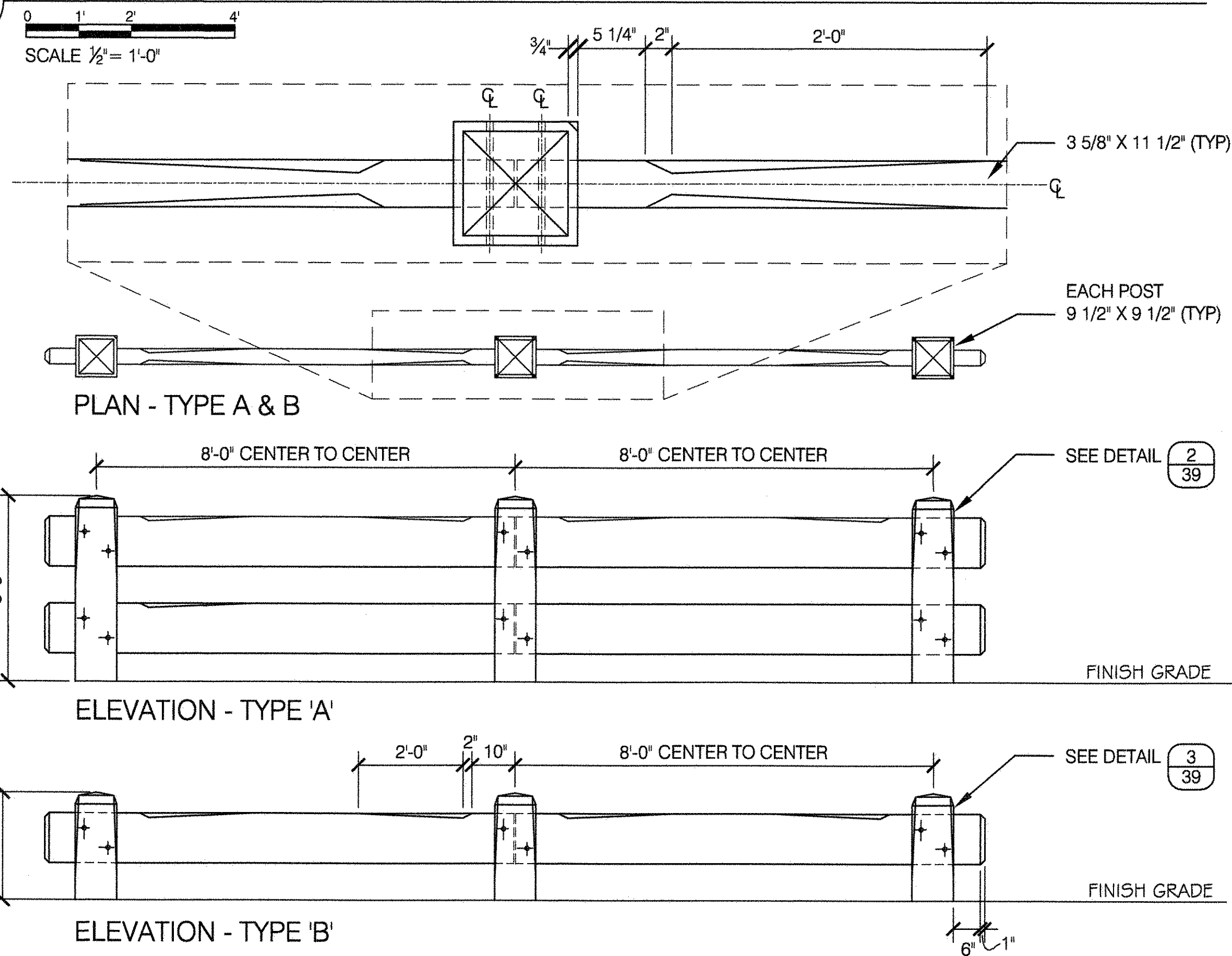
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DRAWING TITLE
STEEL GUIDE RAIL / BOLLARD DETAILS

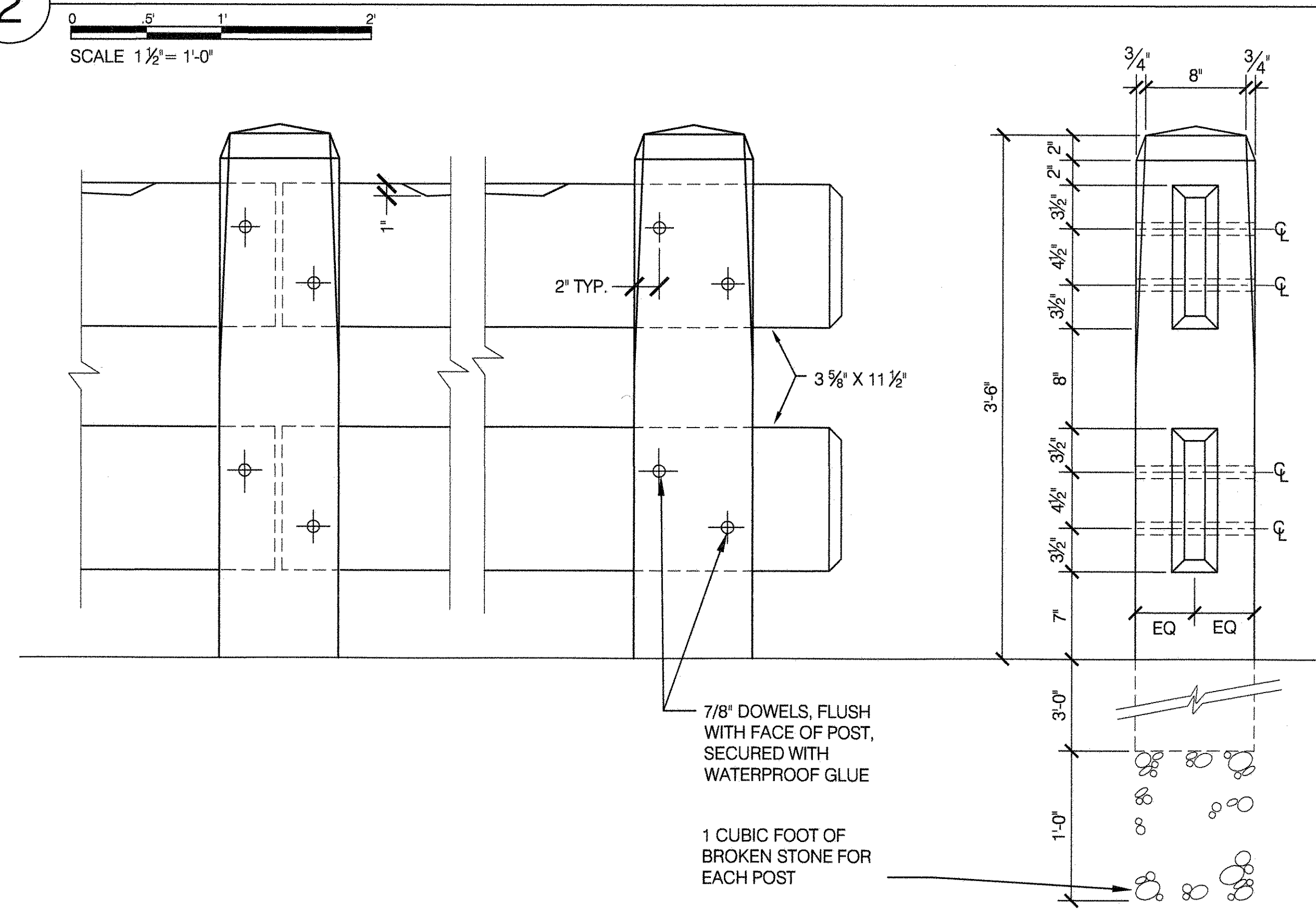
DRAWN BY M. MERIC	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 38
DATE 09-01-2020	SCALE AS SHOWN



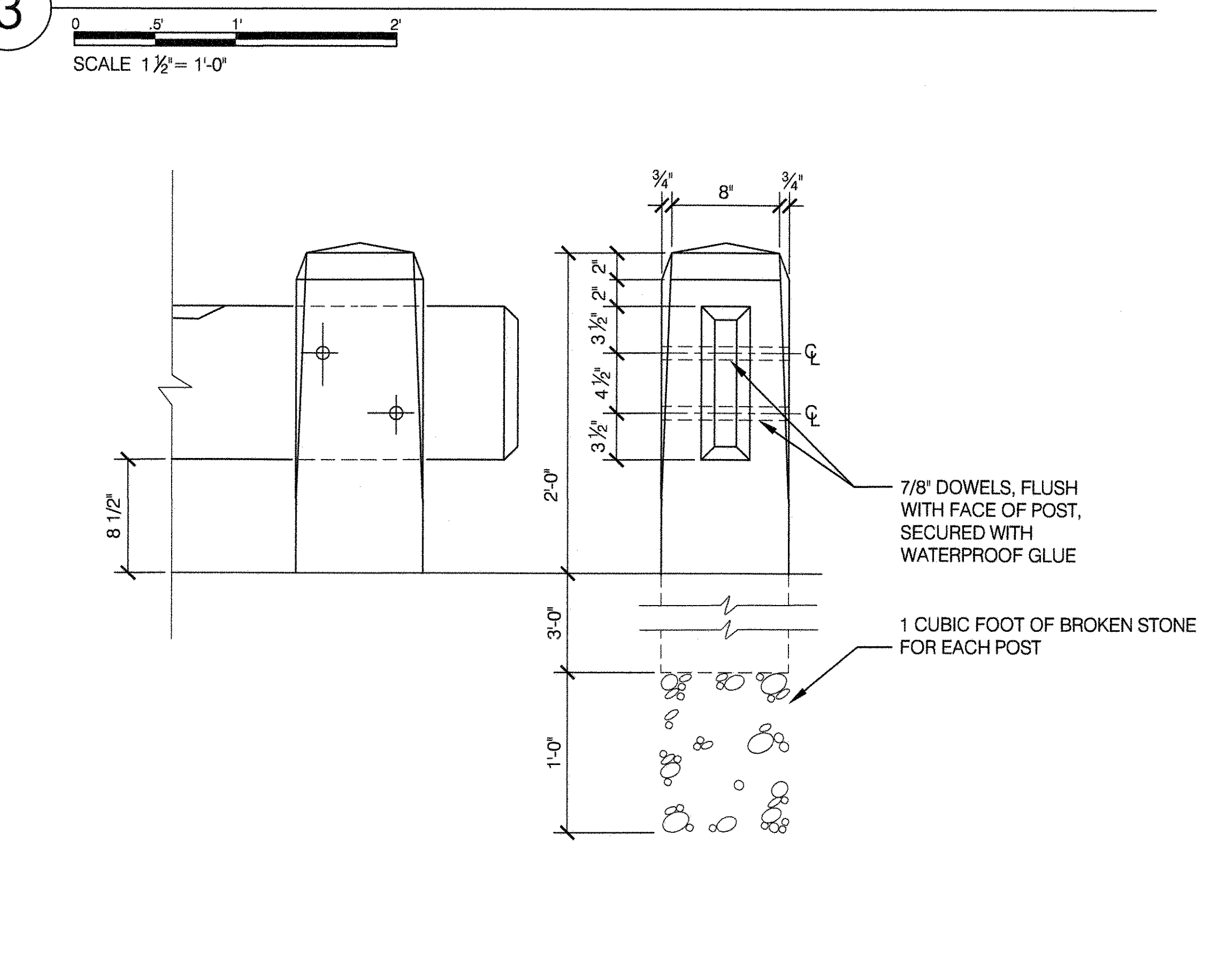
1 BARRIER RAIL - TYPE 'A' & 'B'



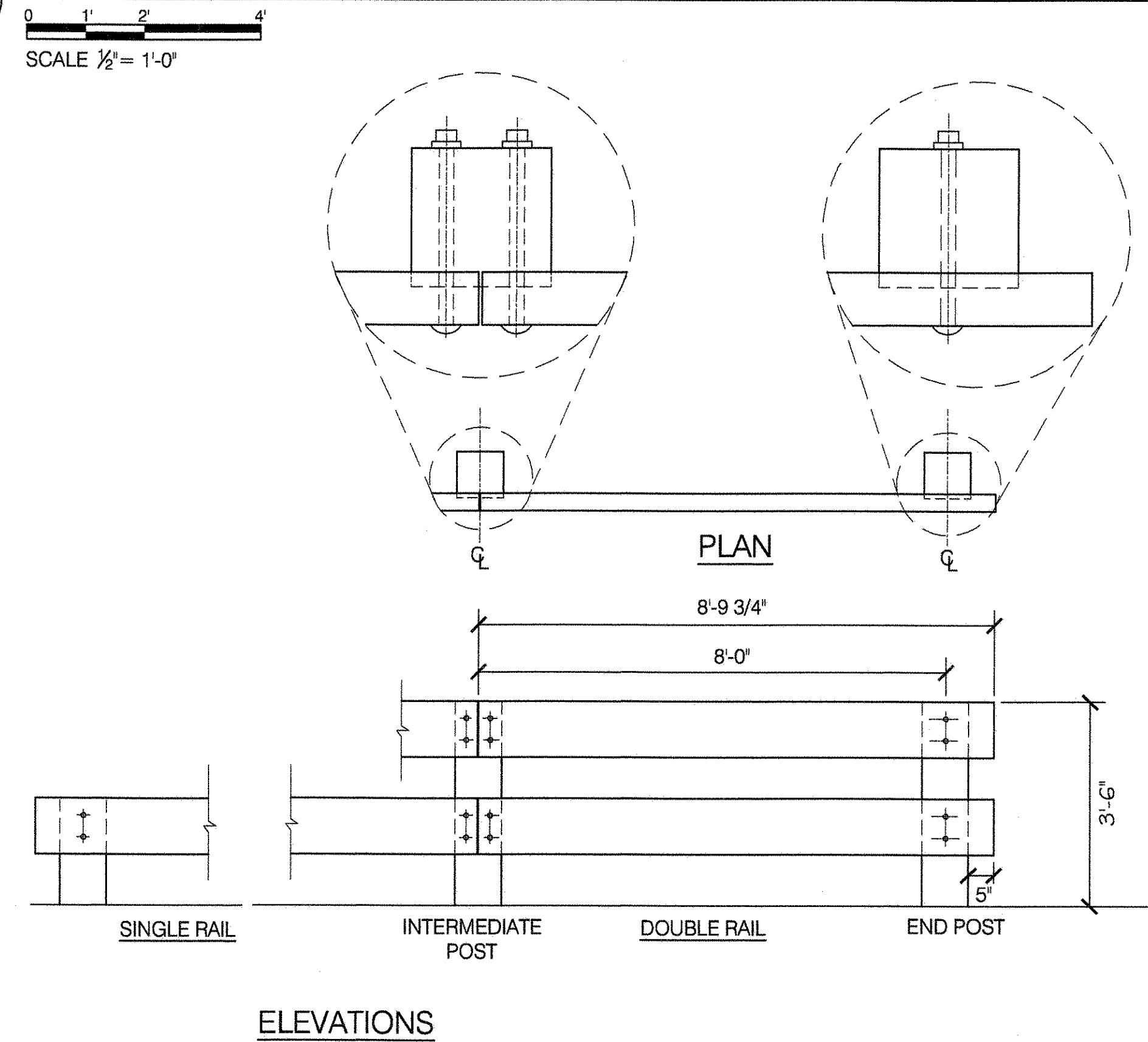
2 BARRIER RAIL - TYPE 'A'



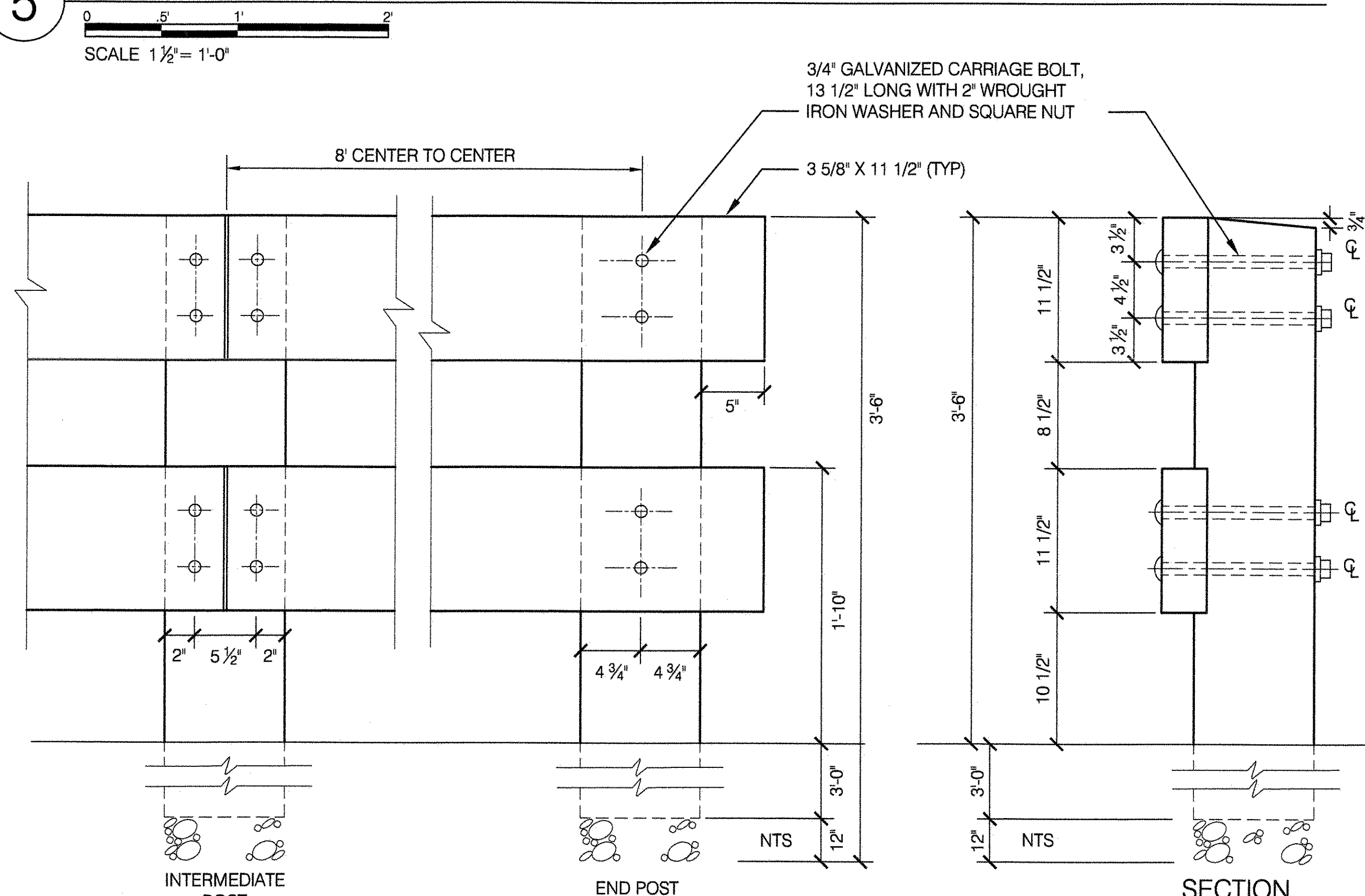
3 BARRIER RAIL - TYPE 'B'



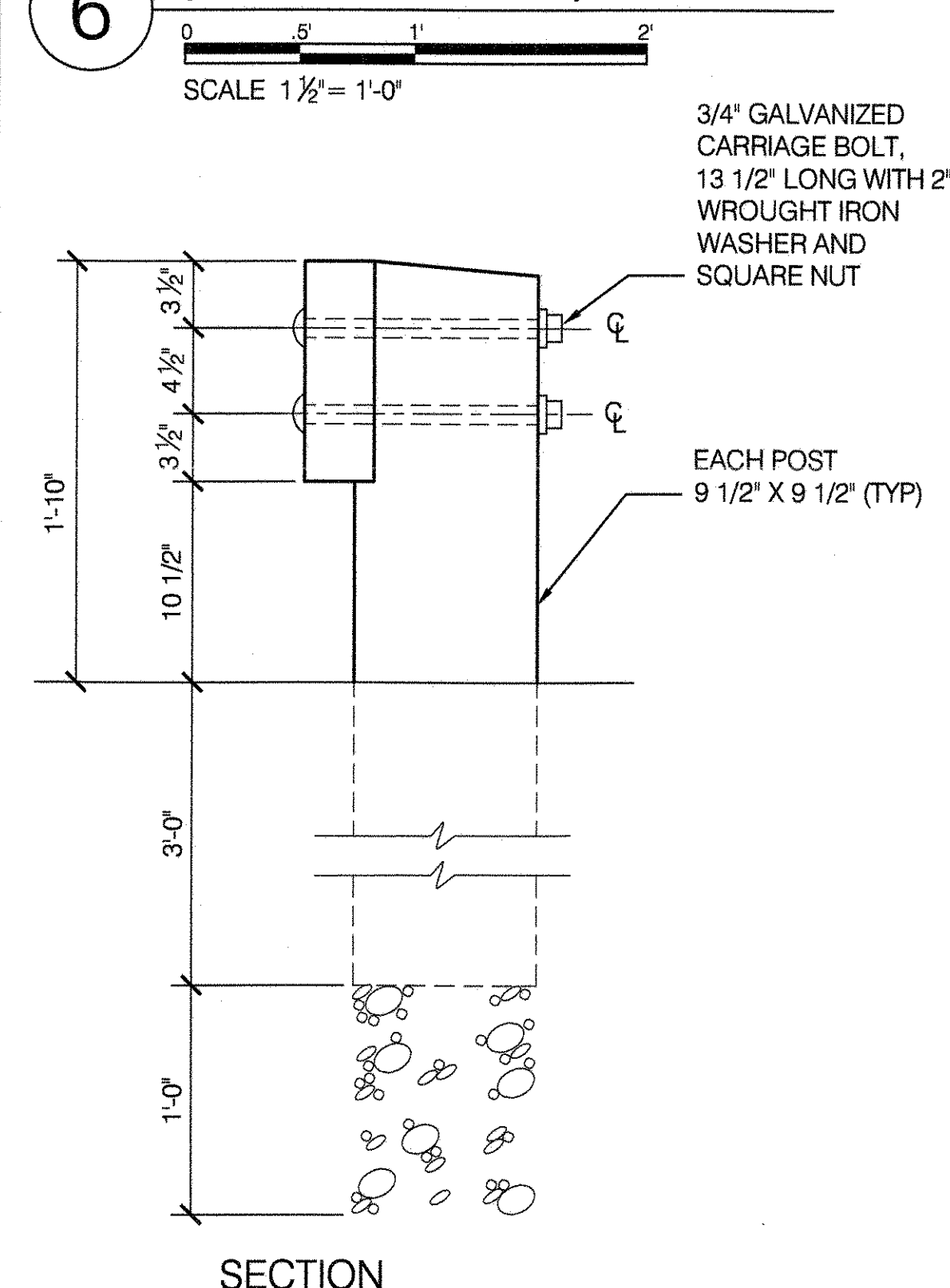
4 BARRIER RAIL - TYPE 'C'



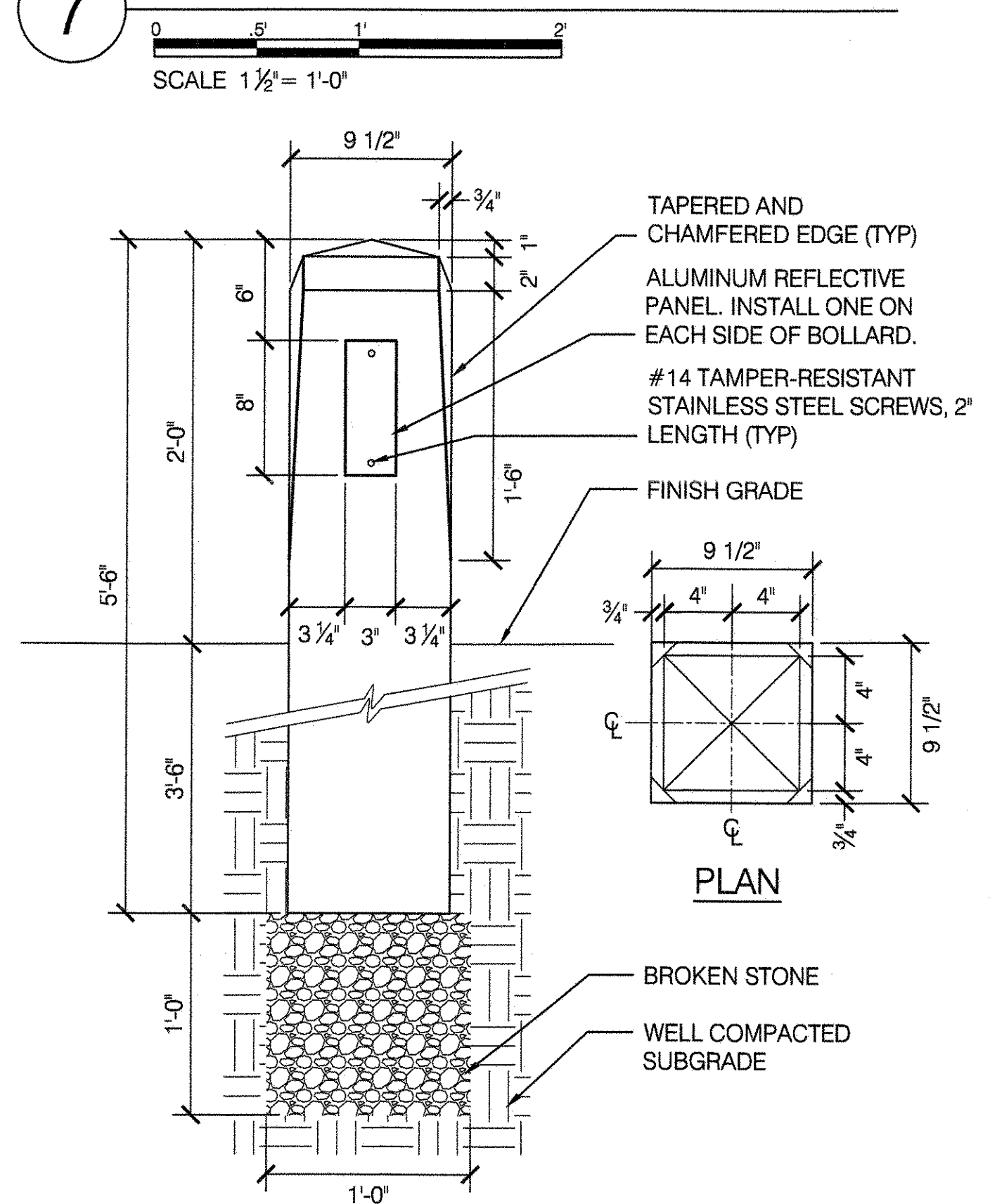
5 BARRIER RAIL - TYPE 'C' (DOUBLE RAIL)



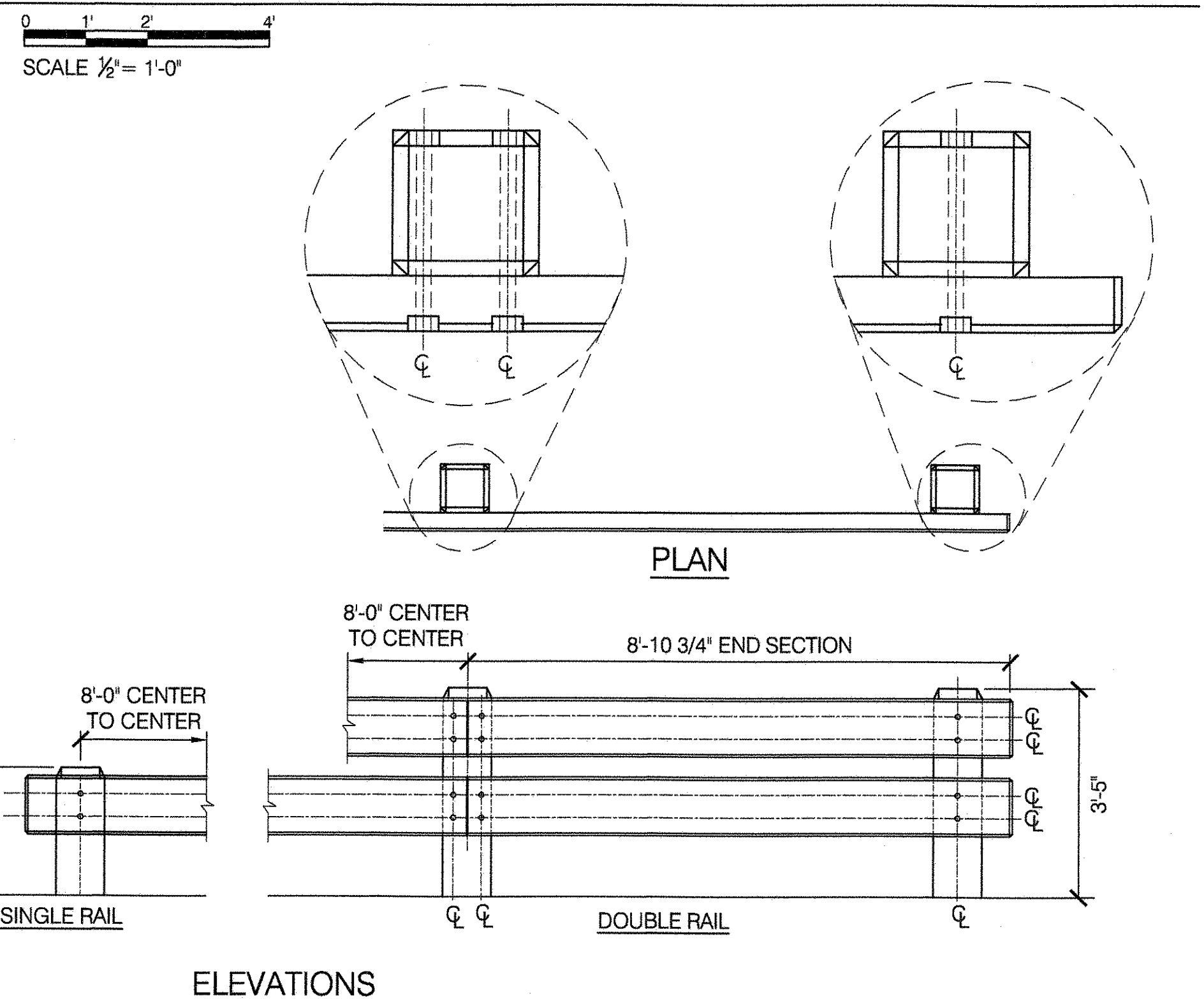
6 BARRIER RAIL - TYPE 'C' (SINGLE RAIL)



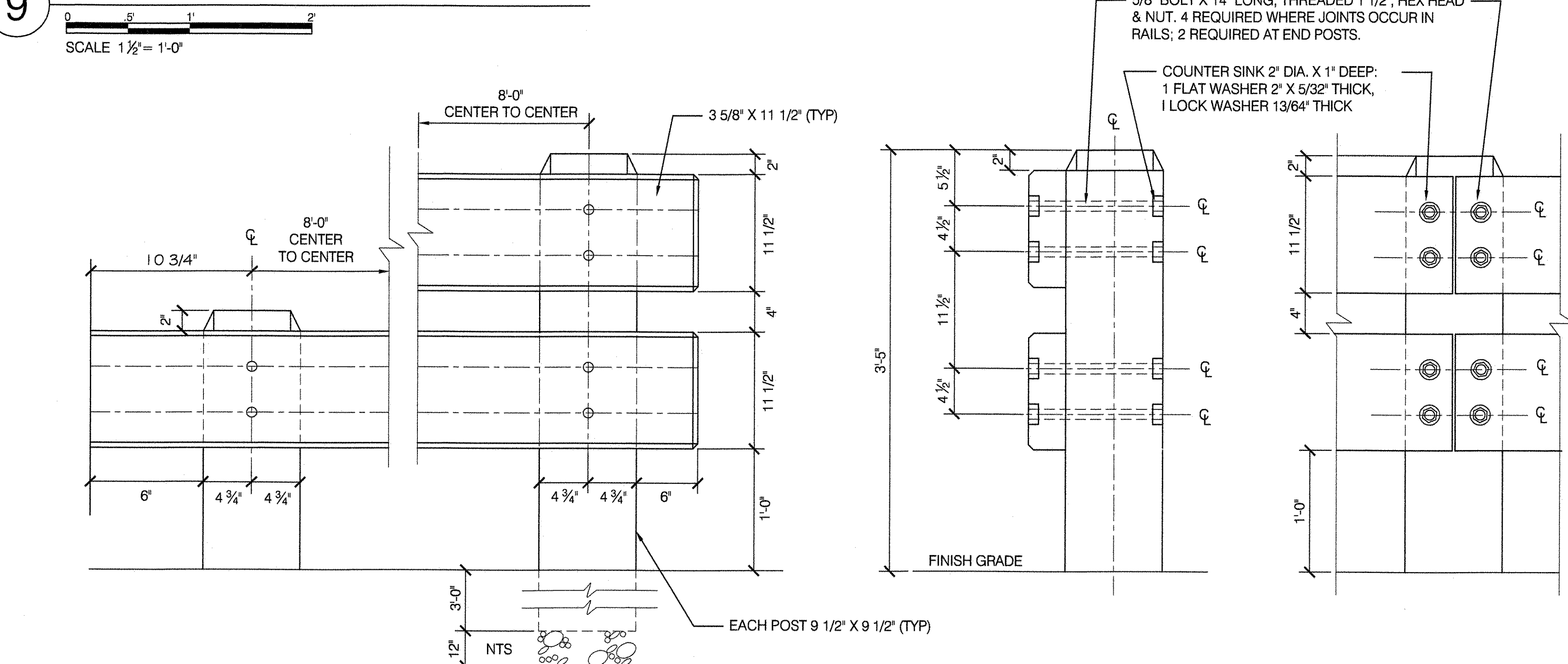
7 FIXED WOOD BOLLARD



8 BARRIER RAIL - TYPE 'D'



9 BARRIER RAIL - TYPE 'D'



NOTE:
ALL BOLTS SHALL BE CUT AND PEENED TO 1/4" AFTER INSTALLATION



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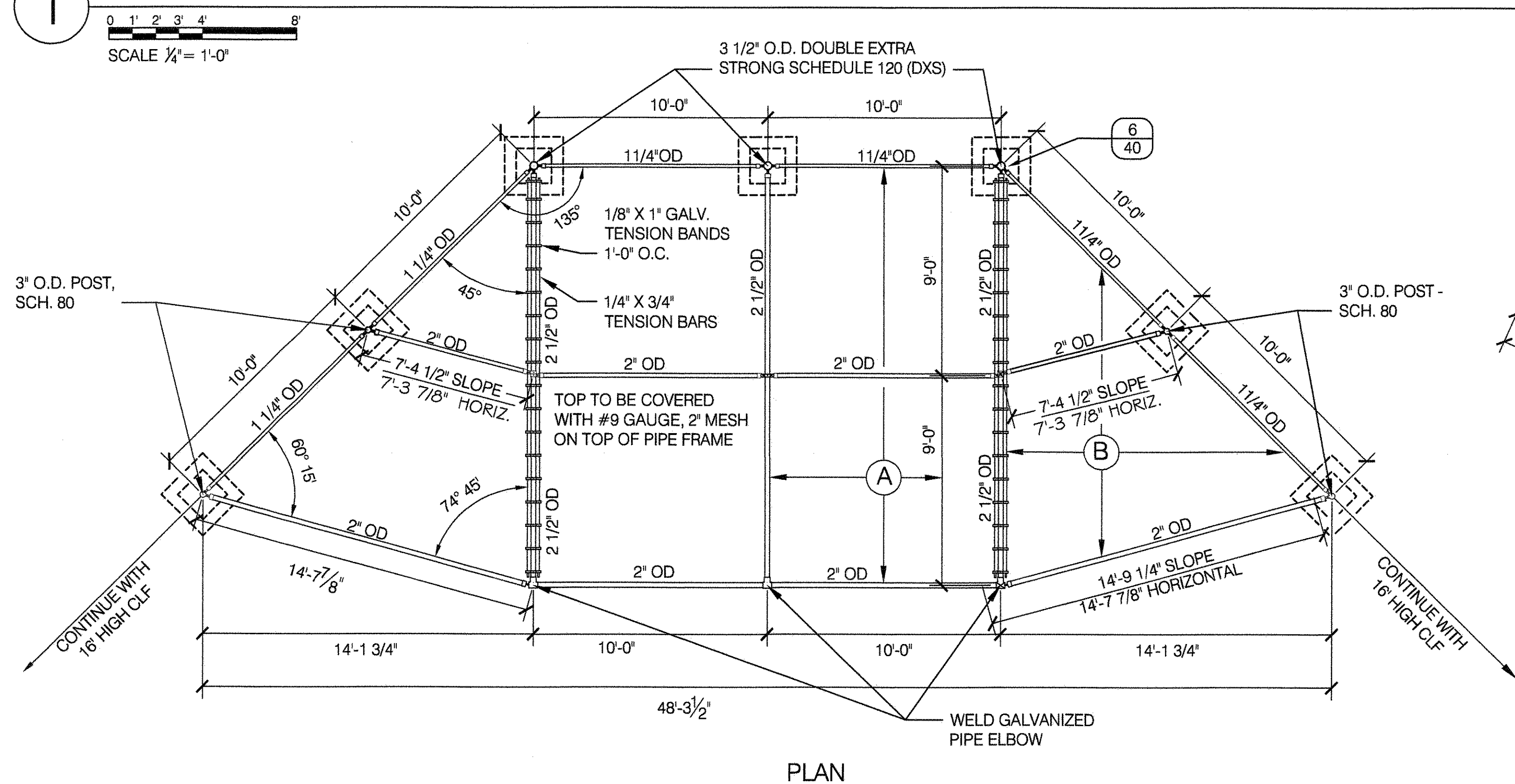
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DRAWING TITLE
TIMBER BARRIER RAIL/ BOLLARD DETAILS

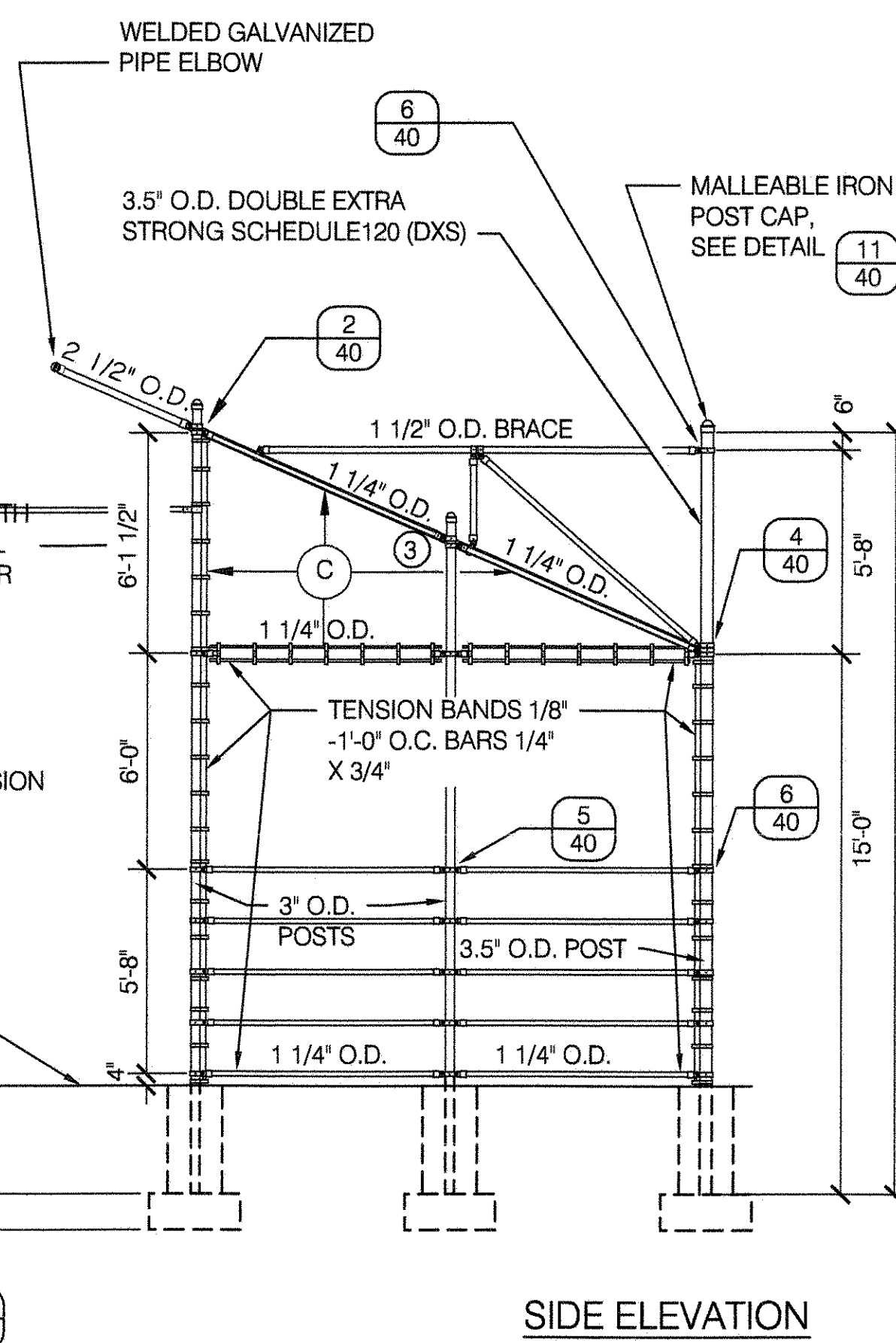
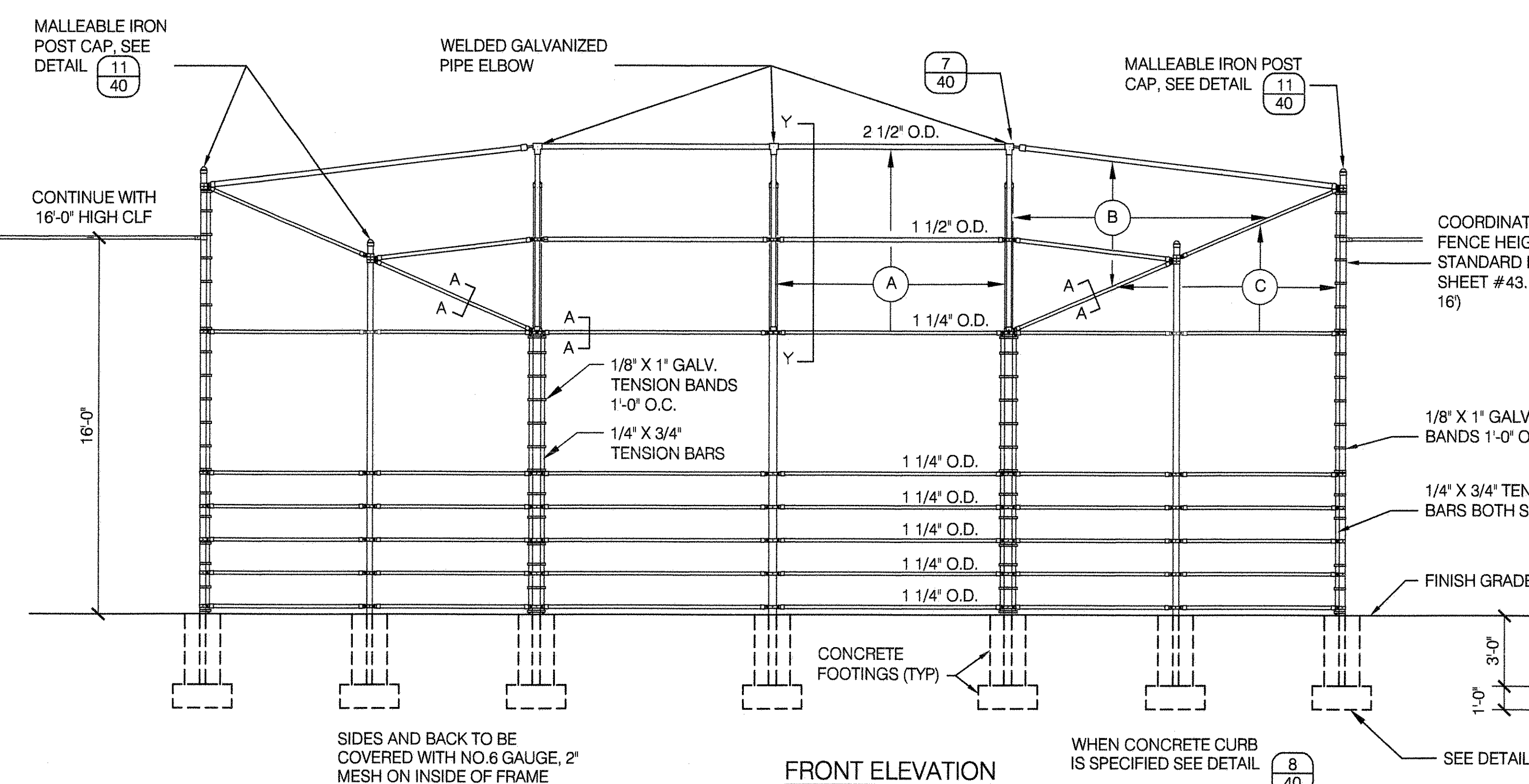
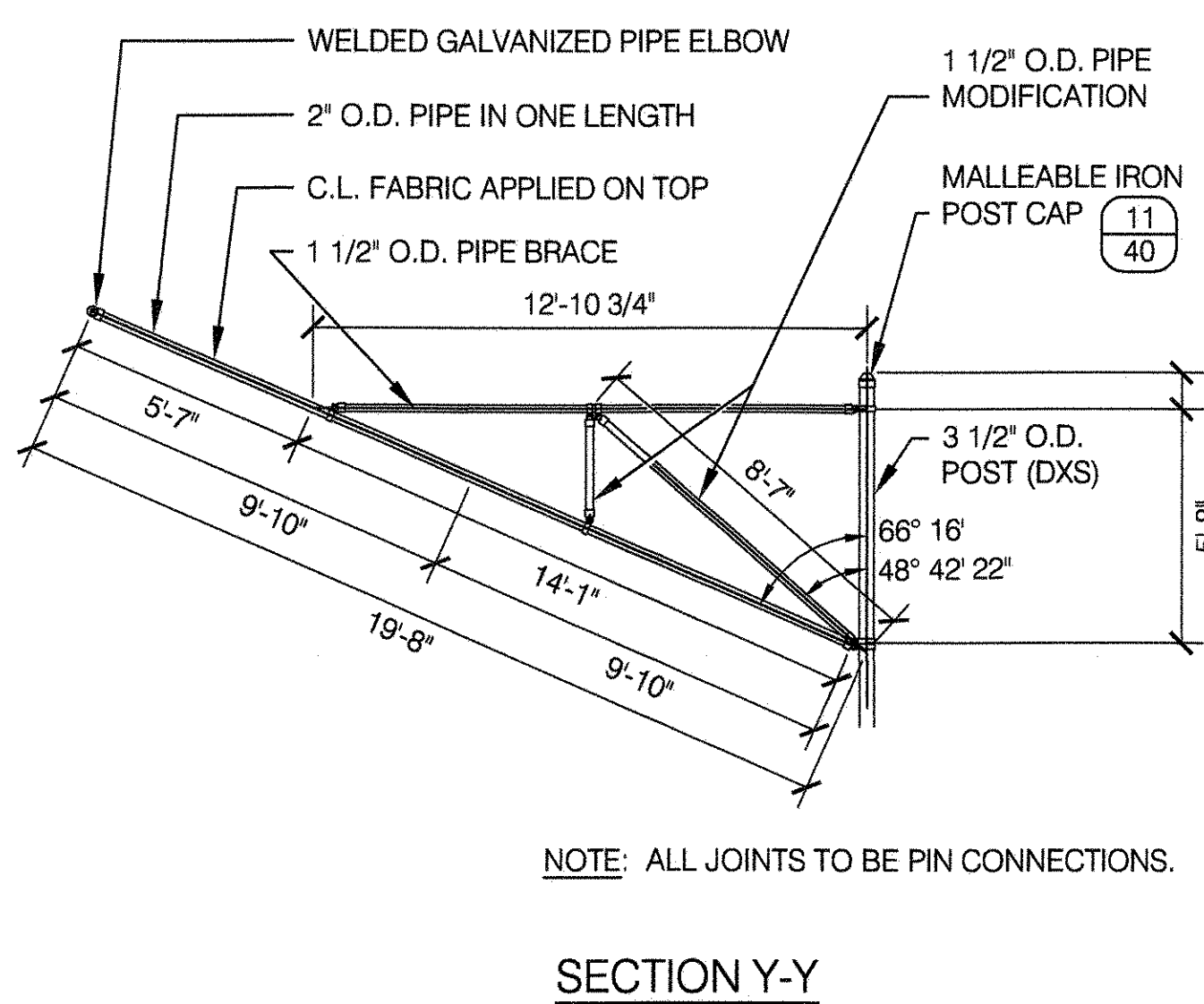


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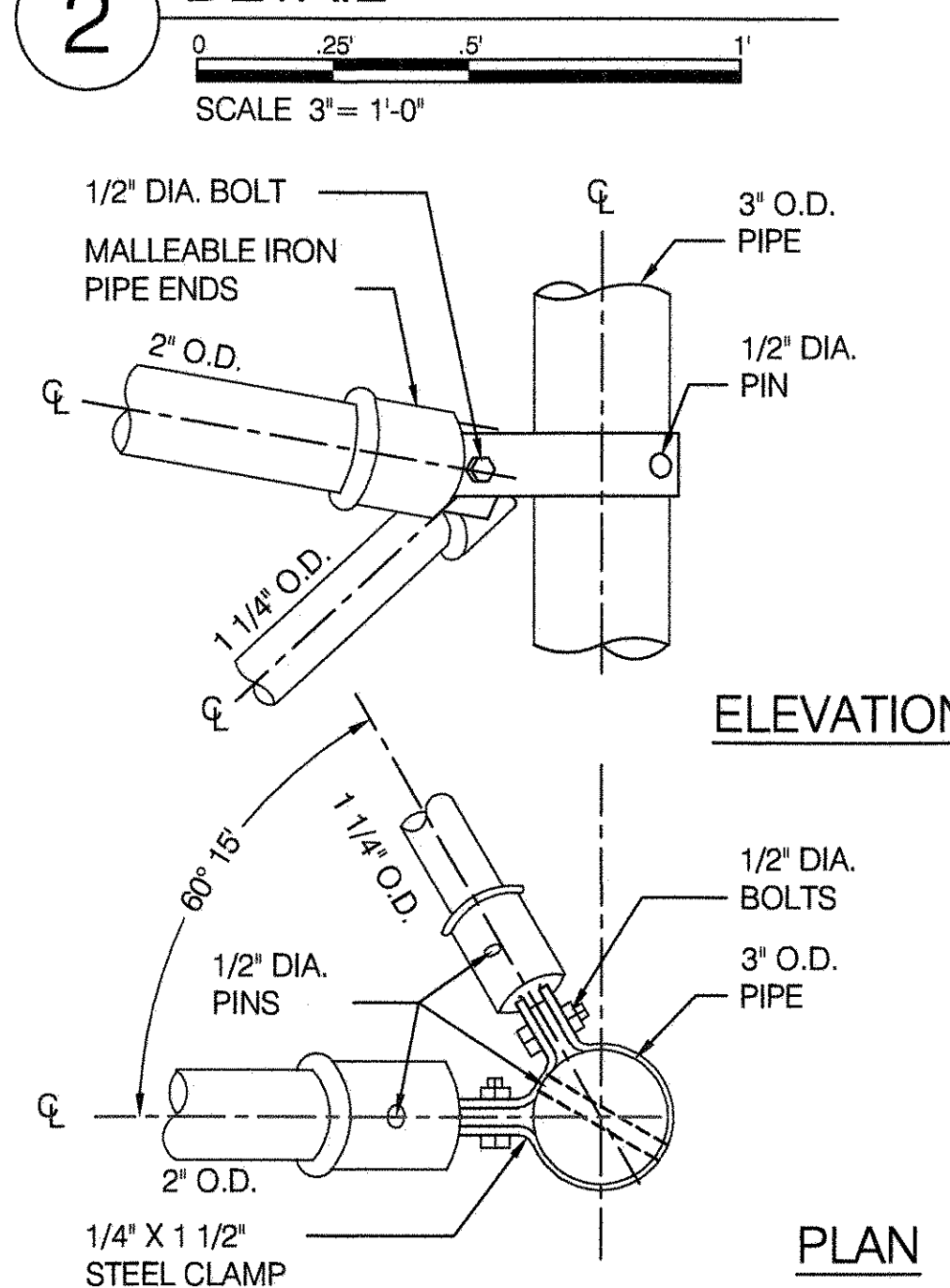
1 PLAN, ELEVATIONS AND SECTION OF HOODED BACKSTOP



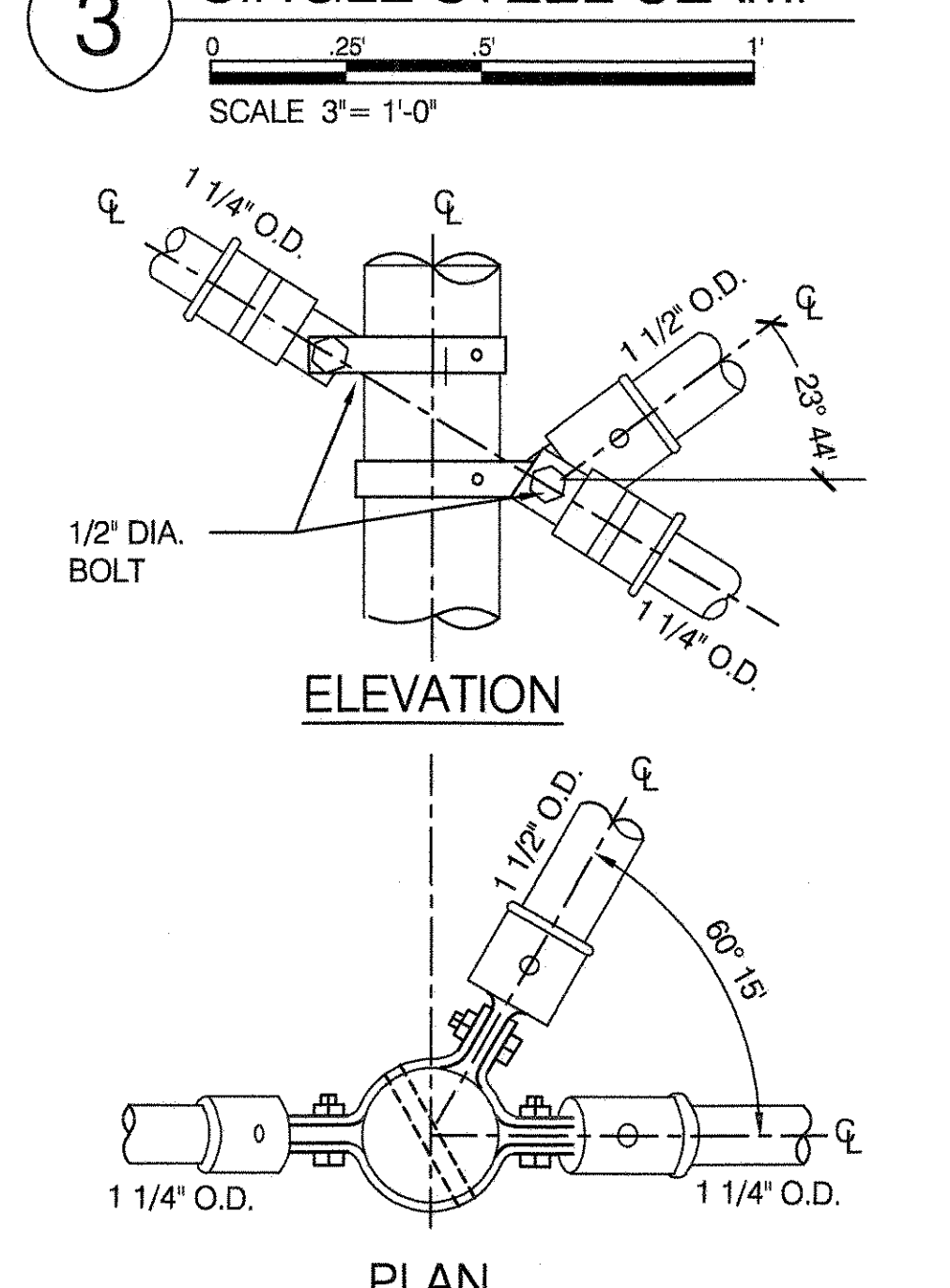
HOOD BRACE AND MODIFICATION



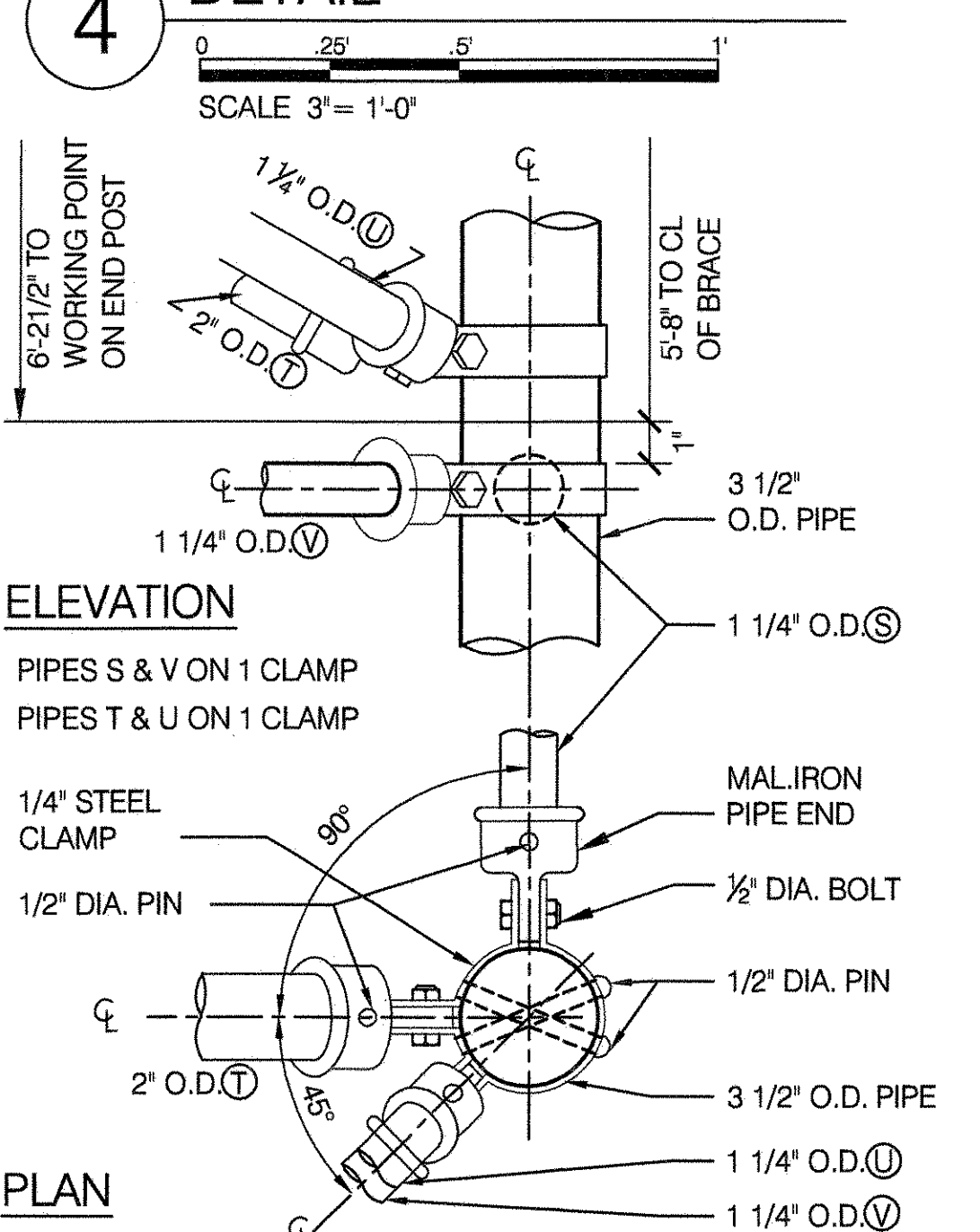
2 DETAIL



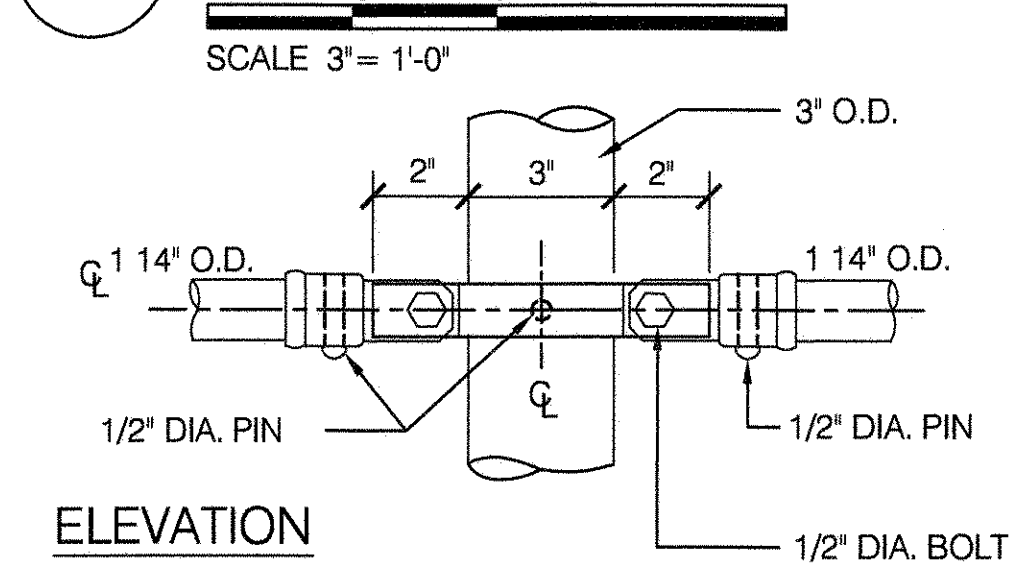
3 SINGLE STEEL CLAMP



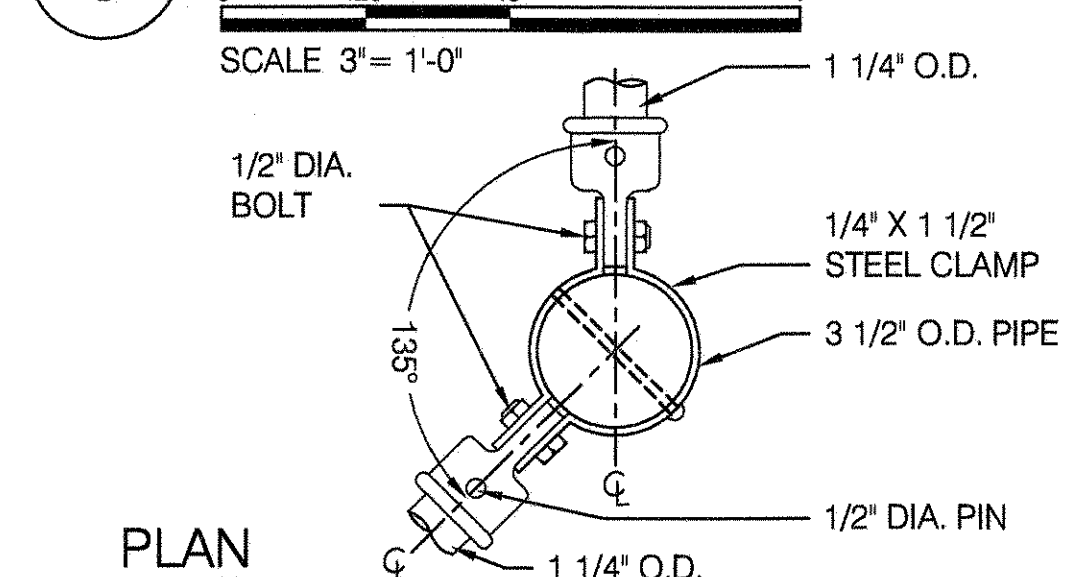
4 DETAIL



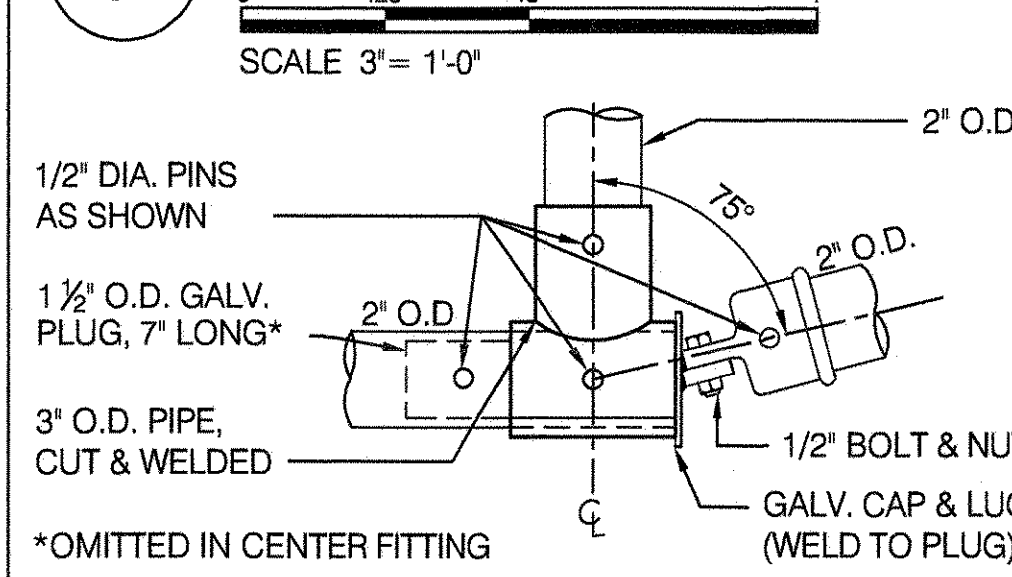
5 DOUBLE STEEL CLAMP-ELV



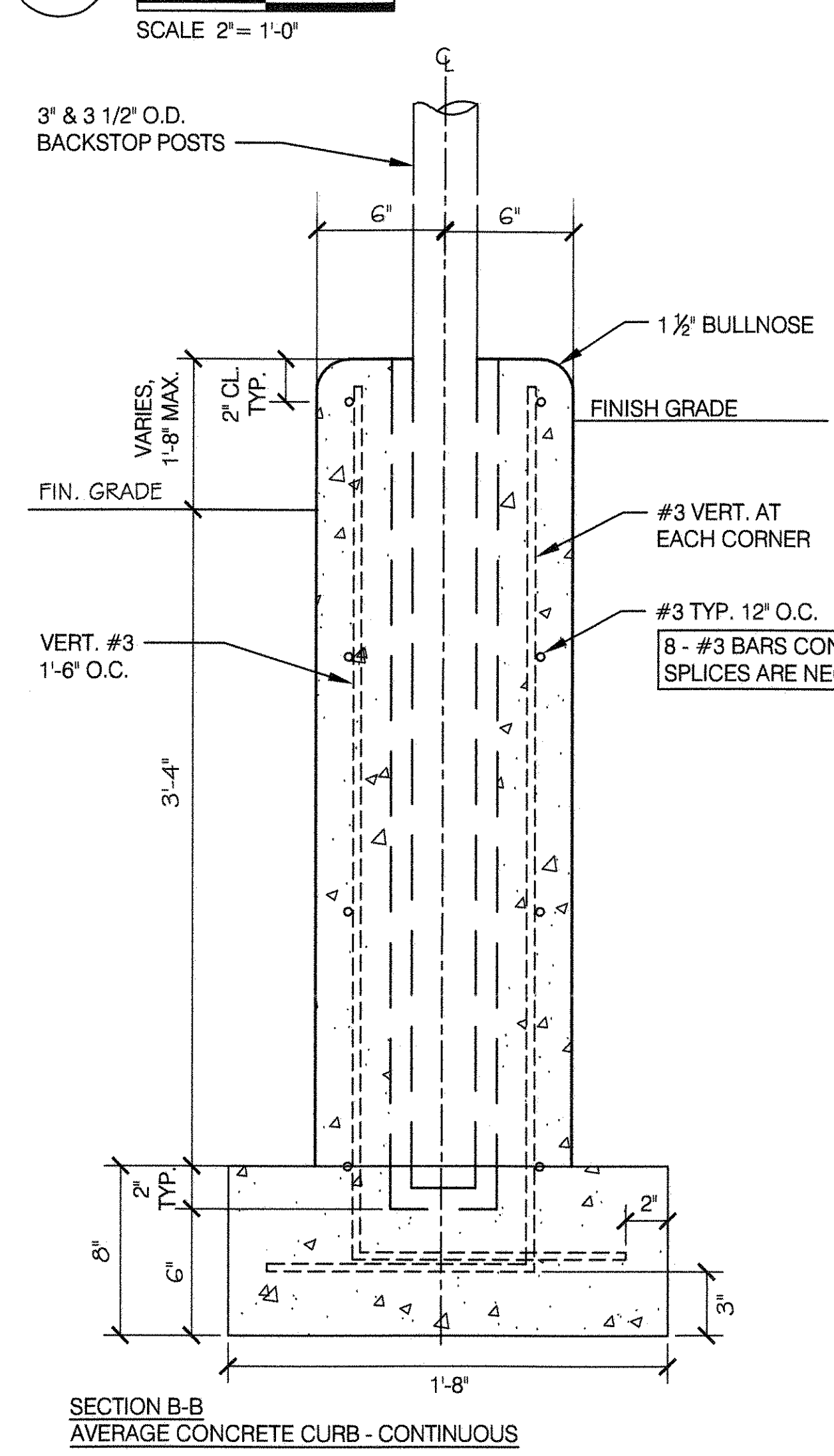
6 DOUBLE STEEL CLAMP-PLAN



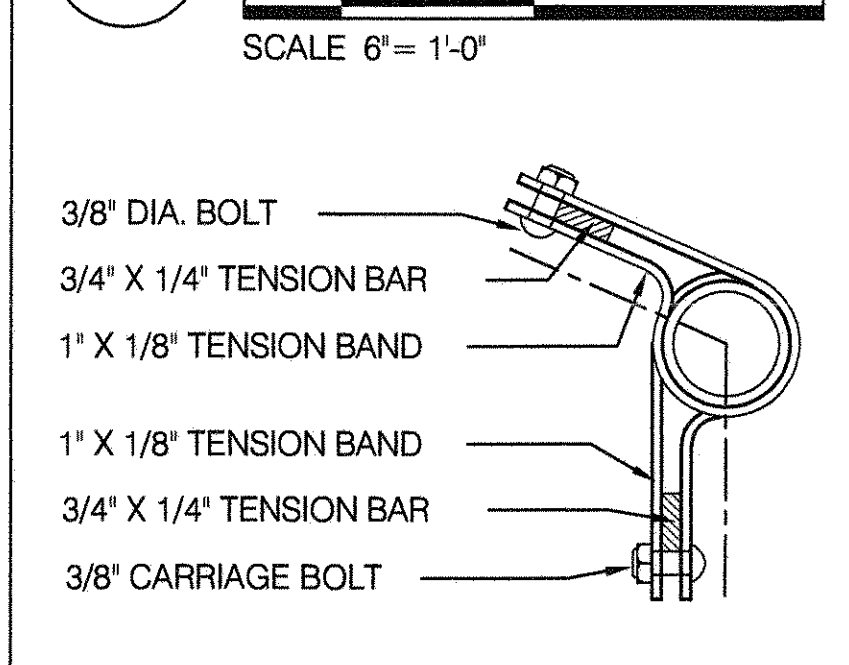
7 GALV STEEL PIPE ELBOW



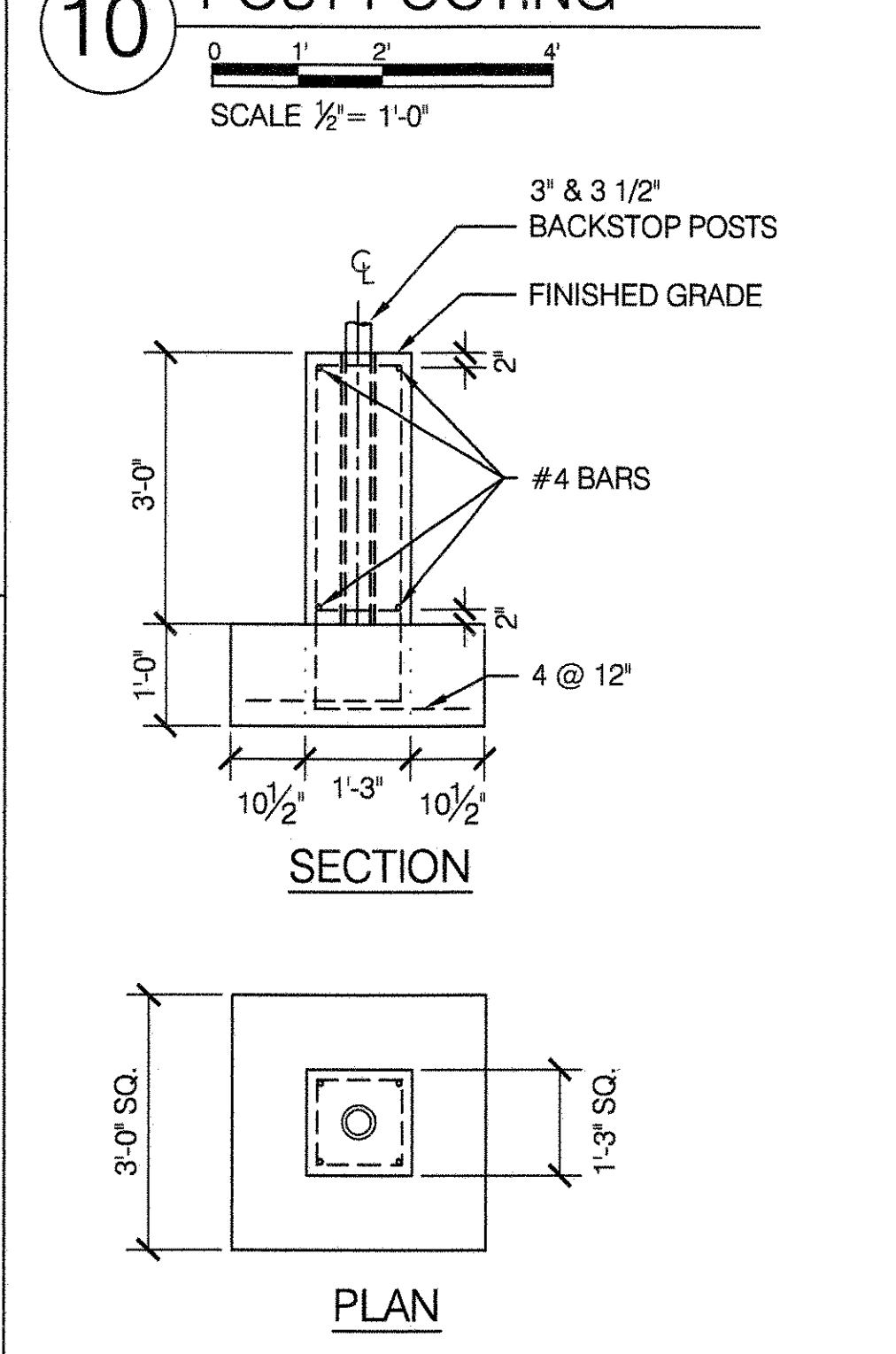
8 CONCRETE CURB



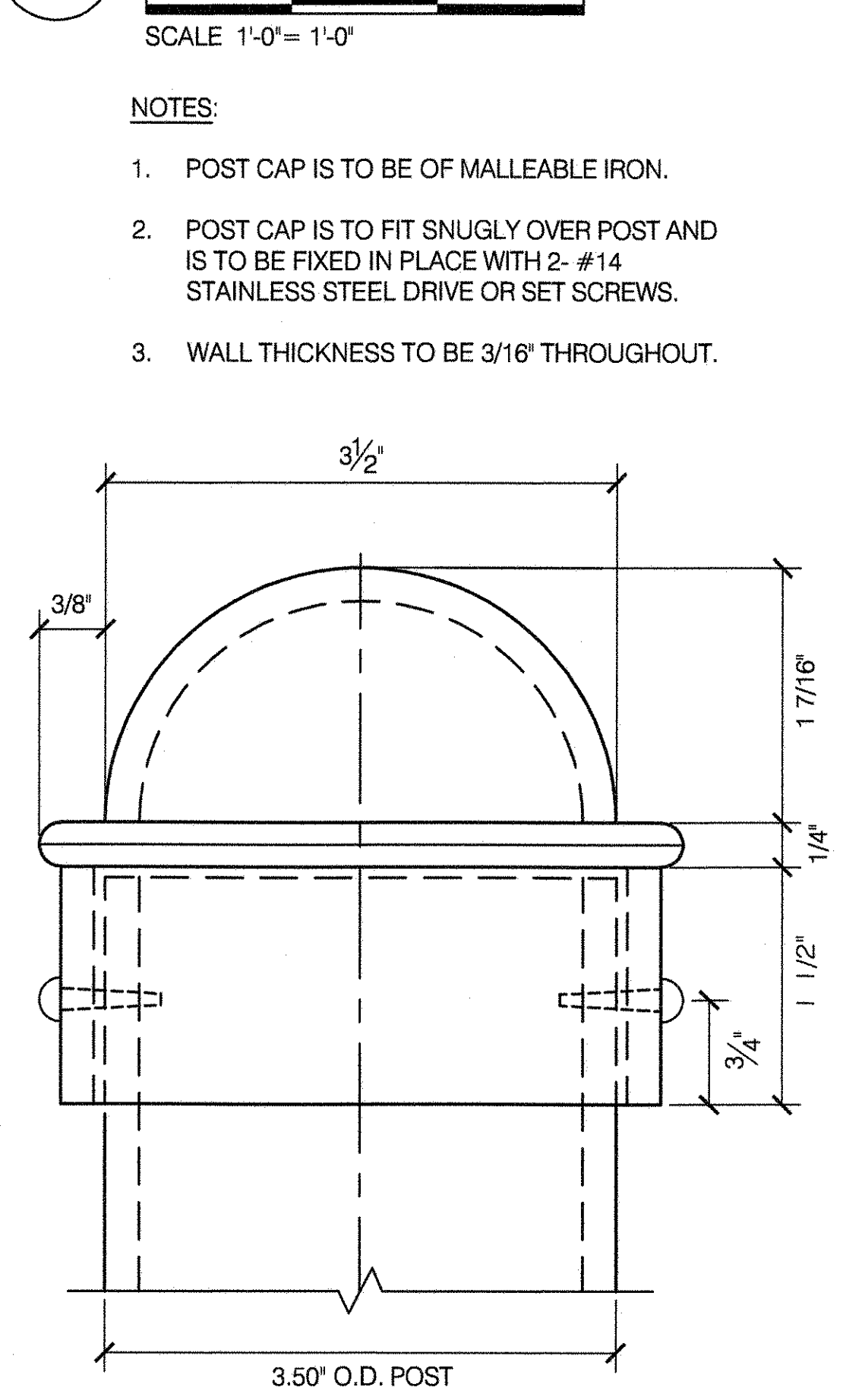
9 SECTION A-A



10 CONCRETE POST FOOTING



11 IRON CAP



NPS PIPE SCHEDULE				
NOMINAL O.D.	ACTUAL I.D.	ACTUAL O.D.	WEIGHT LBS/FT	SCHEDULE
1 1/4"	1.380"	1.660"	2.27	40
1 1/2"	1.610"	1.900"	2.72	40
2"	2.067"	2.375"	3.66	40
3"	2.9"	3.500"	10.20	80
3 1/2"	2.728"	4.000"	23.00	120

NOTE: THE PERMISSIBLE VARIATION IN WEIGHT & DIMENSIONS SHALL CONFORM TO ASTM A-53

MESH SCHEDULE			
GAUGE #	WIRE	THICKNESS OF VINYL	TOTAL
#9	0.148"	0.022"	0.192"
#6	0.192"	0.022"	0.236"

- NOTES:
- HOODED BACKSTOP SHALL BE FABRICATED WITH STANDARD WEIGHT GALVANIZED STEEL POSTS, RAILS AND FITTINGS (EXCEPT 4" O.D. PIPE WHICH SHALL BE DOUBLE EXTRA STRONG - D.X.S. AND 3.5" O.D. PIPE WHICH SHALL BE EXTRA STRONG) CONNECTIONS TO BE PINNED OR BOLTED AS INDICATED. ALL PINS TO BE 1/2" DIA. WITH COUNTER SUNK HEADS AND UPSET ENDS. ALL BOLTS TO BE 1/2" DIA. HEX HEAD WITH LOCK WASHERS AND NUTS.
 - CHAIN LINK FABRIC SHALL BE GALVANIZED STEEL WITH POLYVINYL CHLORIDE POWDER COATING AND 2" MESH. WIRE DIAMETER SHALL BE AS SHOWN ON THE PLAN.
 - FABRIC TO BE FASTENED TO PIPES WITH GALVANIZED STEEL TENSION BARS AND BANDS WHERE SHOWN ON THE PLANS AND FASTENED TO ALL OTHER PIPES BY MEANS OF 9 GAUGE PVC COATED ALUMINUM ALLOY TIE WIRES, SPACED 1'-0" O.C. ON POSTS AND 15" O.C. ON RAILS.
 - ALL PINS, BOLTS AND NUTS TO BE GALVANIZED STEEL; DRIVE AND SET SCREWS TO BE STAINLESS STEEL.
 - THE MESH SHALL BE PLACED ON THE OUTSIDE OF THE POSTS OF ALL EXTERIOR, CHAIN LINK FENCES INCLUDING HOODED BACKSTOPS AND HANDBALL COURT FENCES WHERE THESE ARE AN INTEGRAL PART OF THE EXTERIOR FENCE.
 - WHERE HOODED BACKSTOPS AND HANDBALL COURT FENCES ARE IN INTERIOR AREAS, THE MESH SHALL BE PLACED ON THE INSIDE OF THE POSTS.
 - ALL BOLTS TO BE PEENED OR TACK WELDED.
 - SECTION Y-Y SHOWING PIPE BRACE AND MODIFICATION IS TYPICAL FOR ALL THREE 4" (D.X.S.) POSTS.
 - ALL DIMENSIONS NOMINAL NPS UNLESS OTHERWISE NOTED.

- NOTES:
- WHERE ADJACENT CURBS OF DIFFERENT WIDTH MEET, TYPICAL CURB TRANSITION DETAIL WILL APPLY. SEE STD. DETAIL SHEET #17.
 - DEPTH OF FOOTING MAY VARY DUE TO FIELD CONDITIONS AND SHALL BE DETERMINED BY ENGINEER IN FIELD.
 - WHEREVER GRADE ADJACENT TO CURB IS FLUSH WITH TOP OF CURB, BULLNOSE SHALL BE OMITTED ON THAT SIDE AND EDGE FLUSH WITH CORNER TOOL.
 - ALL REINFORCEMENT BARS SHALL BE DEFORMED EXCEPT WHERE NOTED.
 - ALL POSTS OF CHAIN LINK FENCE TO BE SET IN SLEEVES AND CEMENT GROUT.
 - SEE LAYOUT DRAWING FOR CURB LENGTH.
 - ALL #3 BARS SHALL LAP 1'-6" WHERE SPLICE ARE NECESSARY.

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 DRAWING TITLE
HOODED BASEBALL BACKSTOP

DRAWN BY
 M. MERIC

APPROVED BY
 R. WEI, PE

APPROVED BY DIRECTOR
 R. WEI, PE

DATE
 09-01-2020

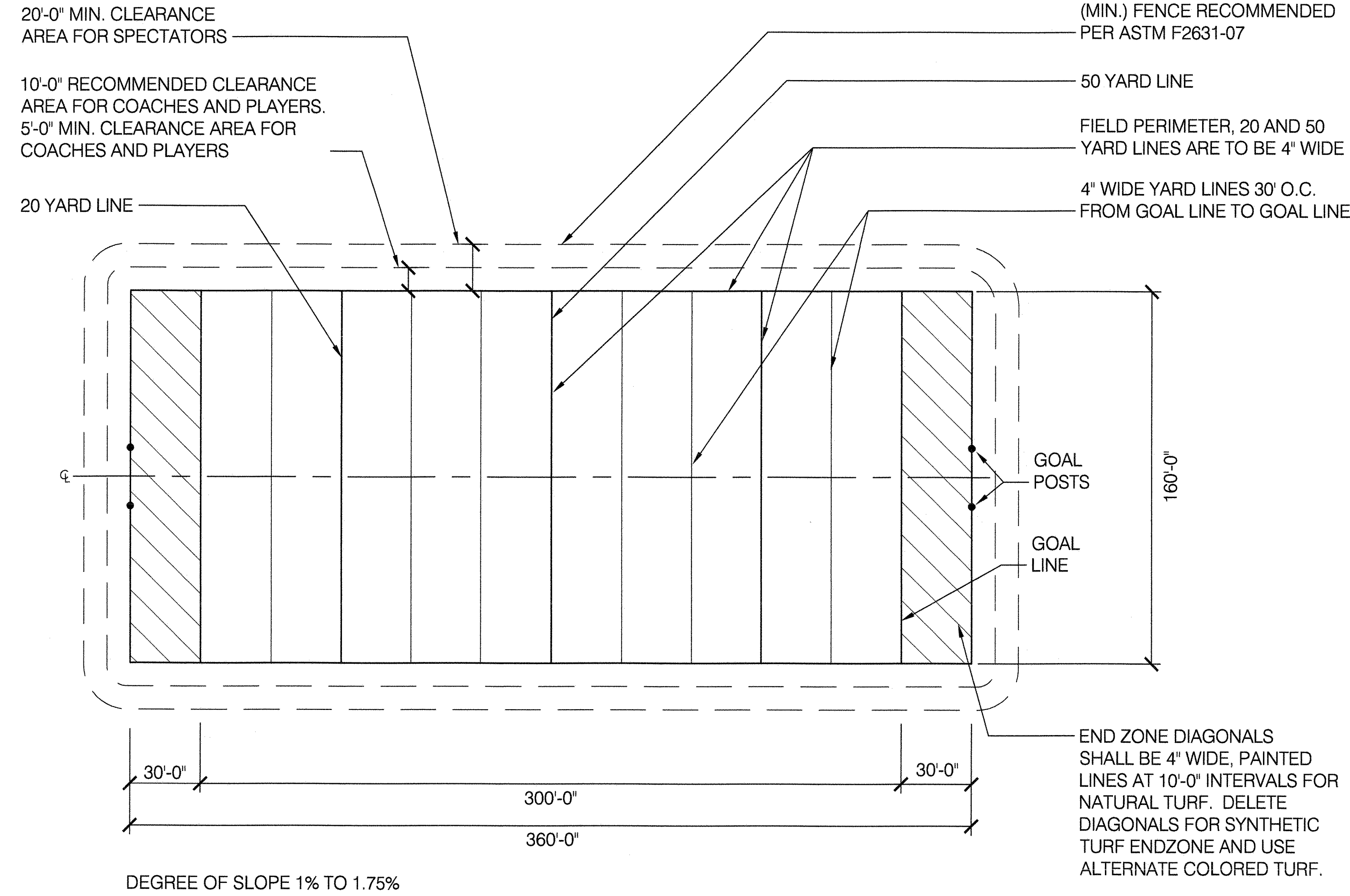
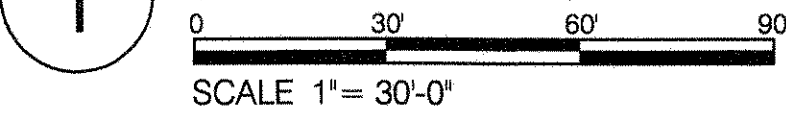
CHECKED BY
 R. WEI, PE

STANDARD D.P.R. DETAIL
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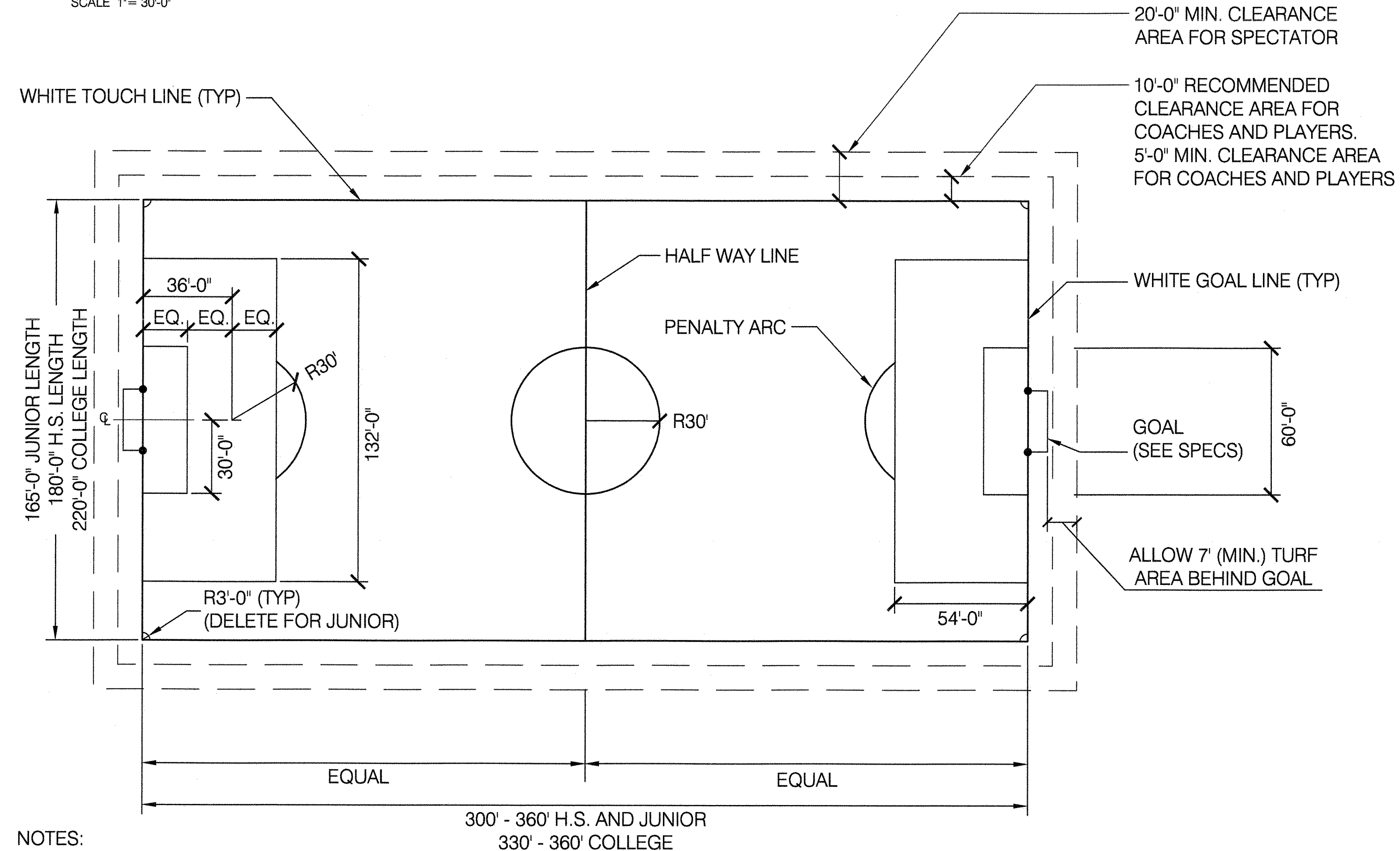
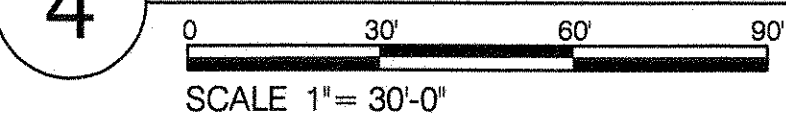
SHEET NO.
 40

SCALE
 AS SHOWN

1 FOOTBALL FIELD LINES

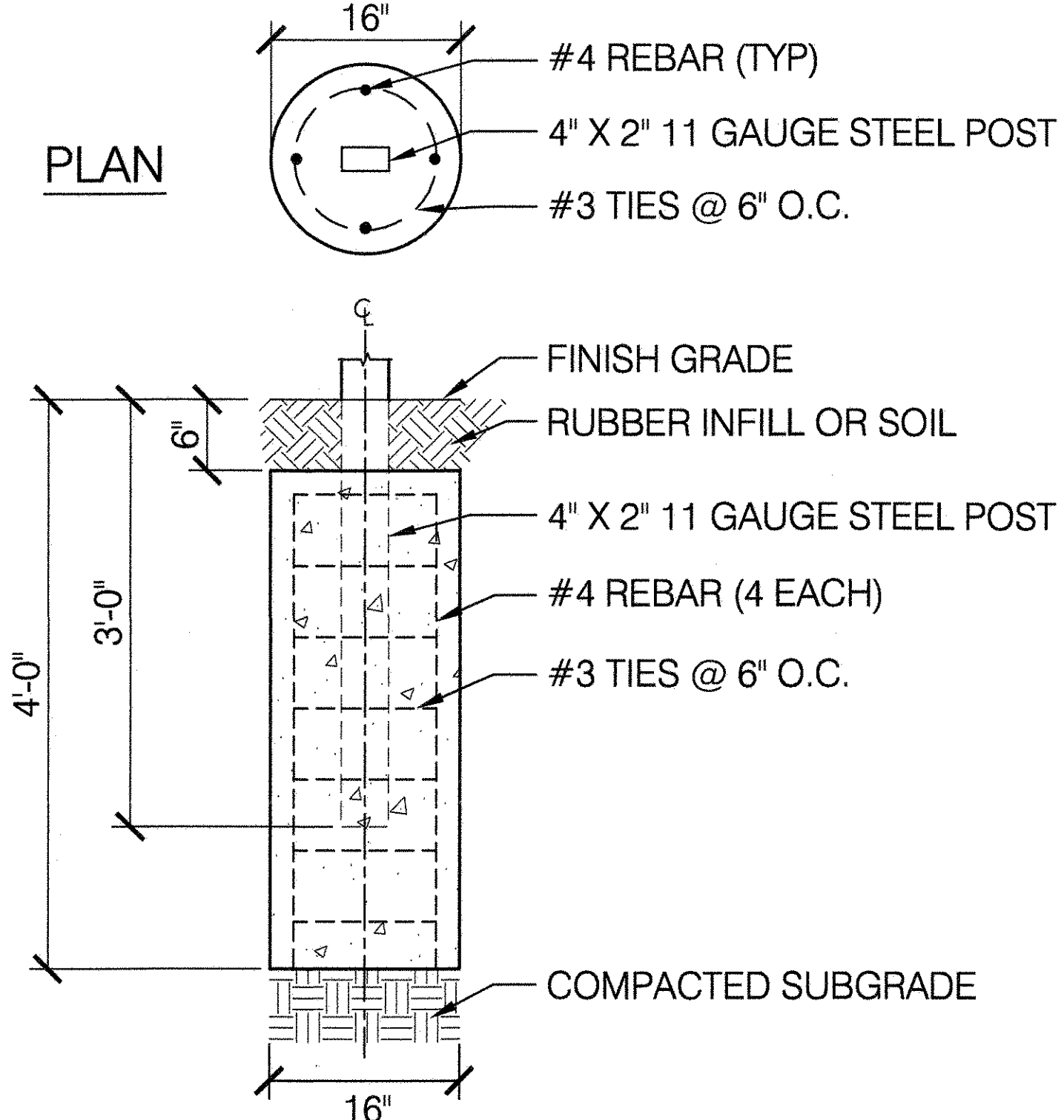
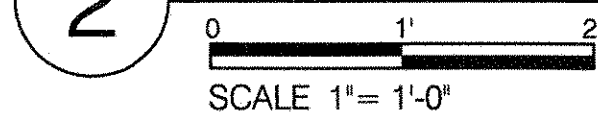


4 SOCCER FIELD LINES

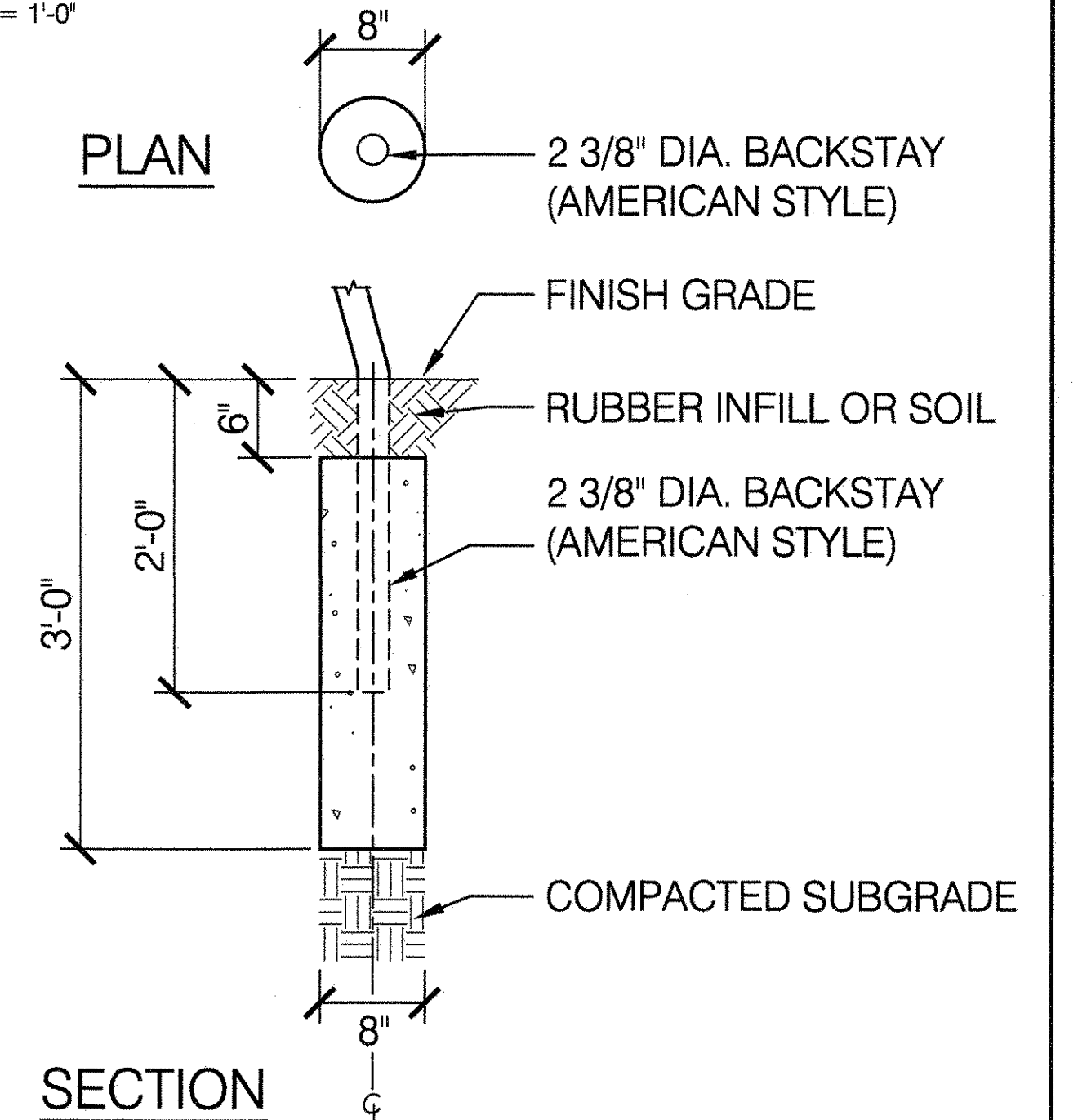
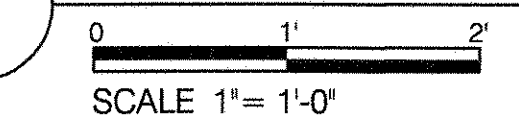


NOTES:
 1) ALL SOCCER FIELD LINES SHALL BE 4" WIDE;
 2) DEGREE OF SLOPE WITHOUT DRAINAGE SYSTEM 1%-1.75%

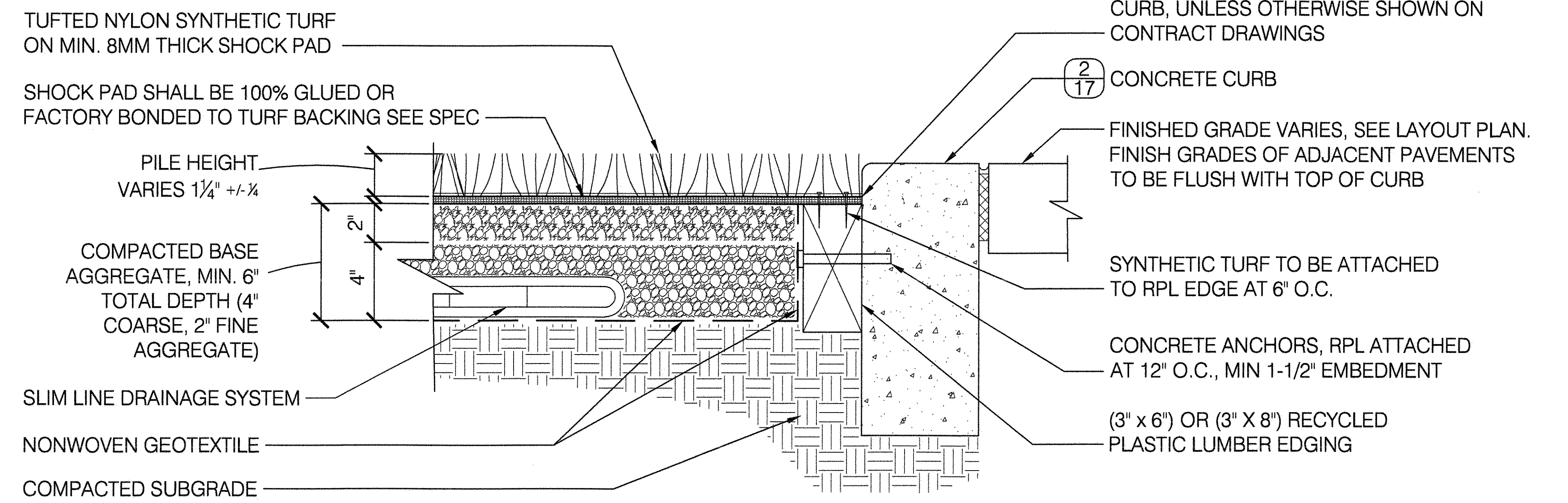
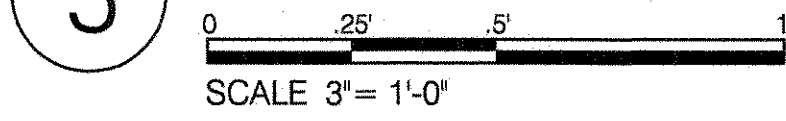
2 CONCRETE FOOTING FOR SOCCER GOAL MAIN POSTS



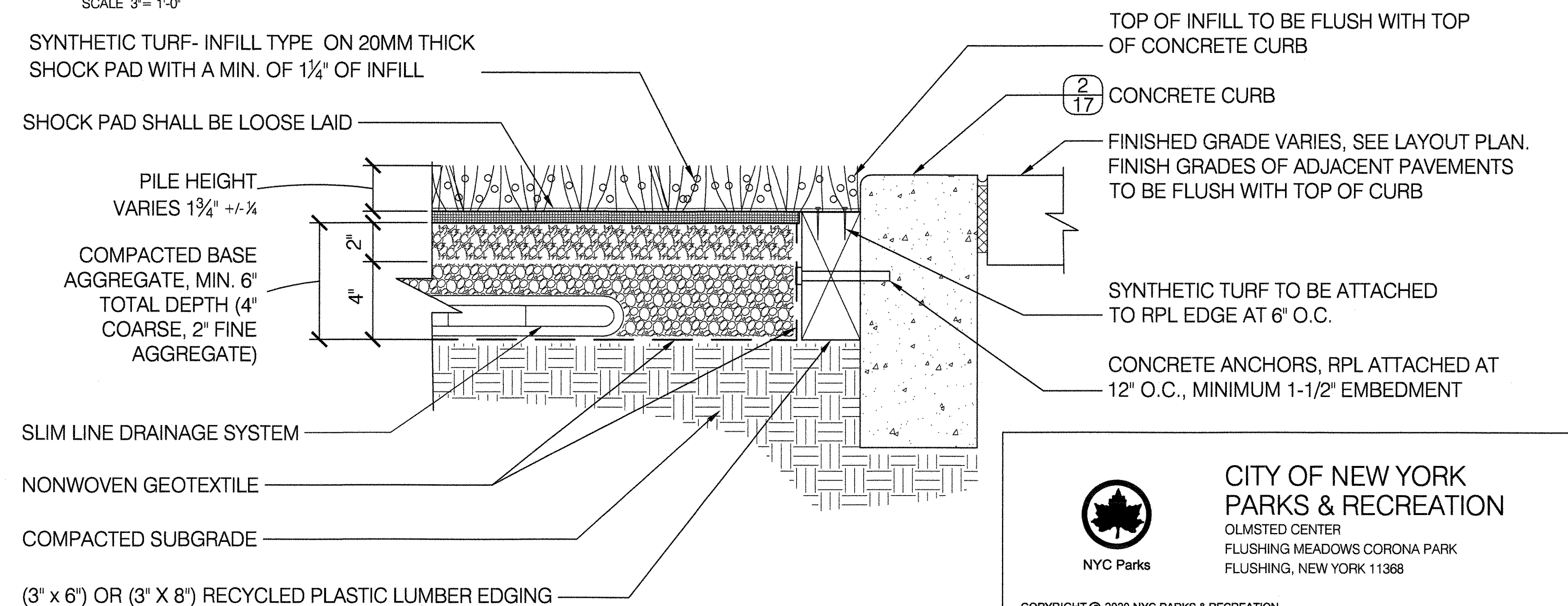
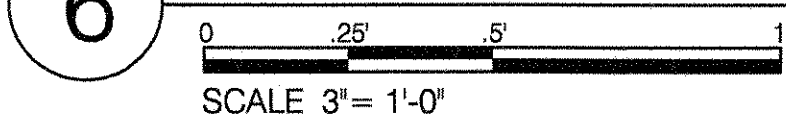
3 CONCRETE FOOTING FOR SOCCER GOAL BACKSTAYS



5 SYNTHETIC TURF- TUFTED NYLON ON STONE BASE



6 SYNTHETIC TURF- INFILL TYPE ON STONE BASE



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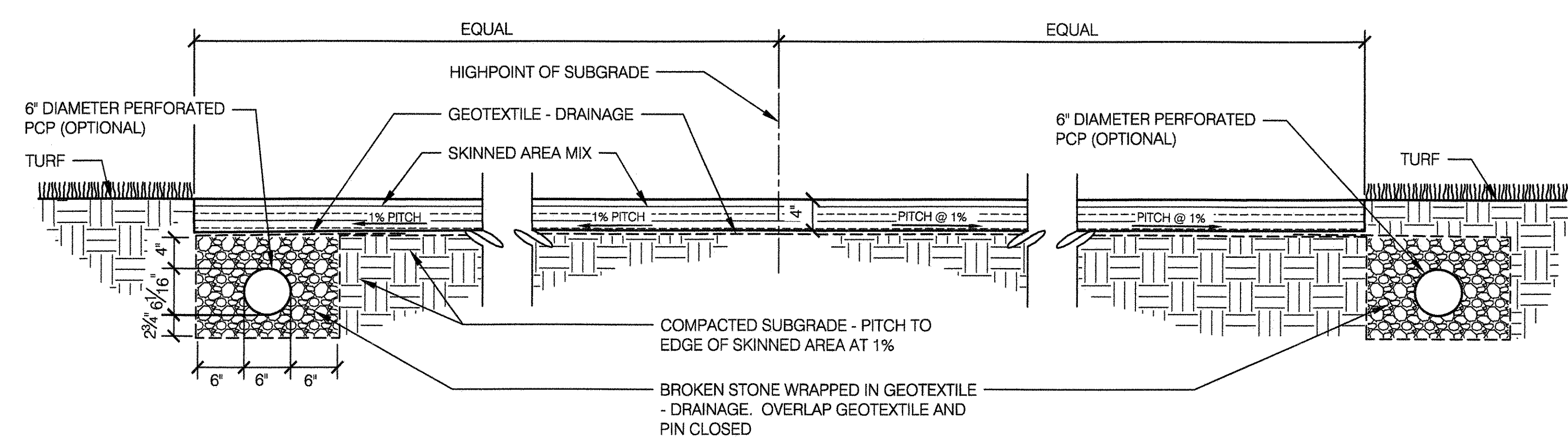
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DRAWING TITLE
 ATHLETIC FIELD DETAILS

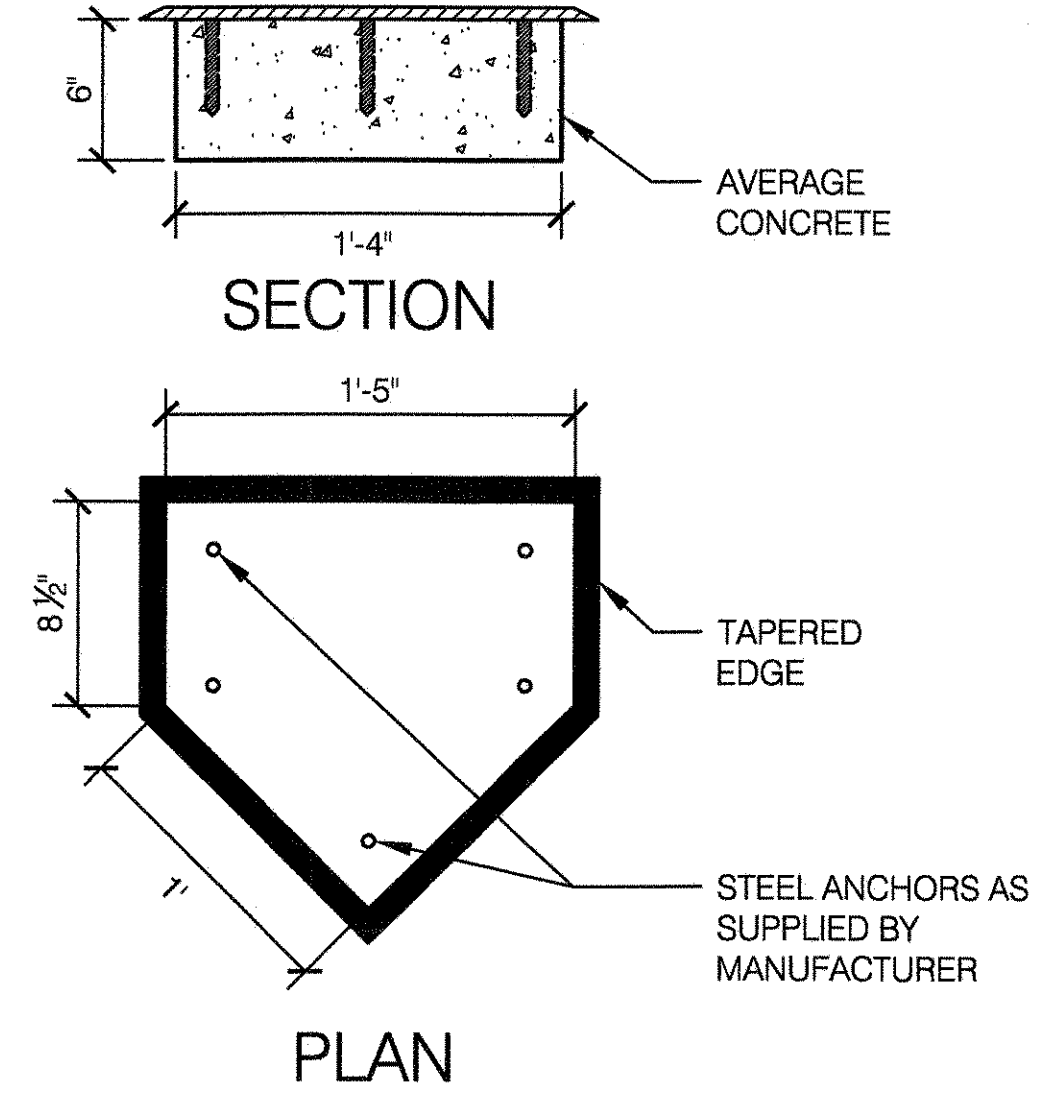


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APPROVED BY DIRECTOR RUBY S. WEI, PE	SHEET NO. 41
DATE 09-01-2020	SCALE AS SHOWN

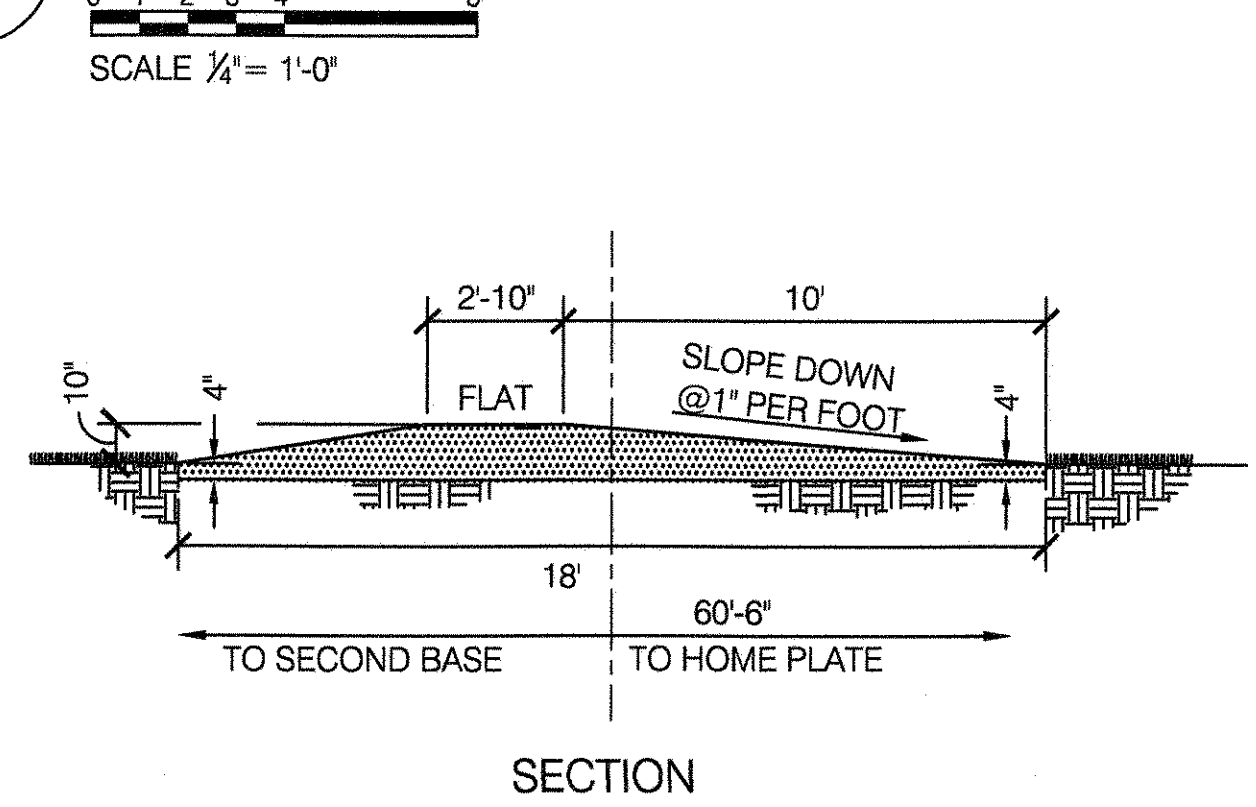
1 INFIELD SECTION A-A
SCALE 1" = 1'-0"



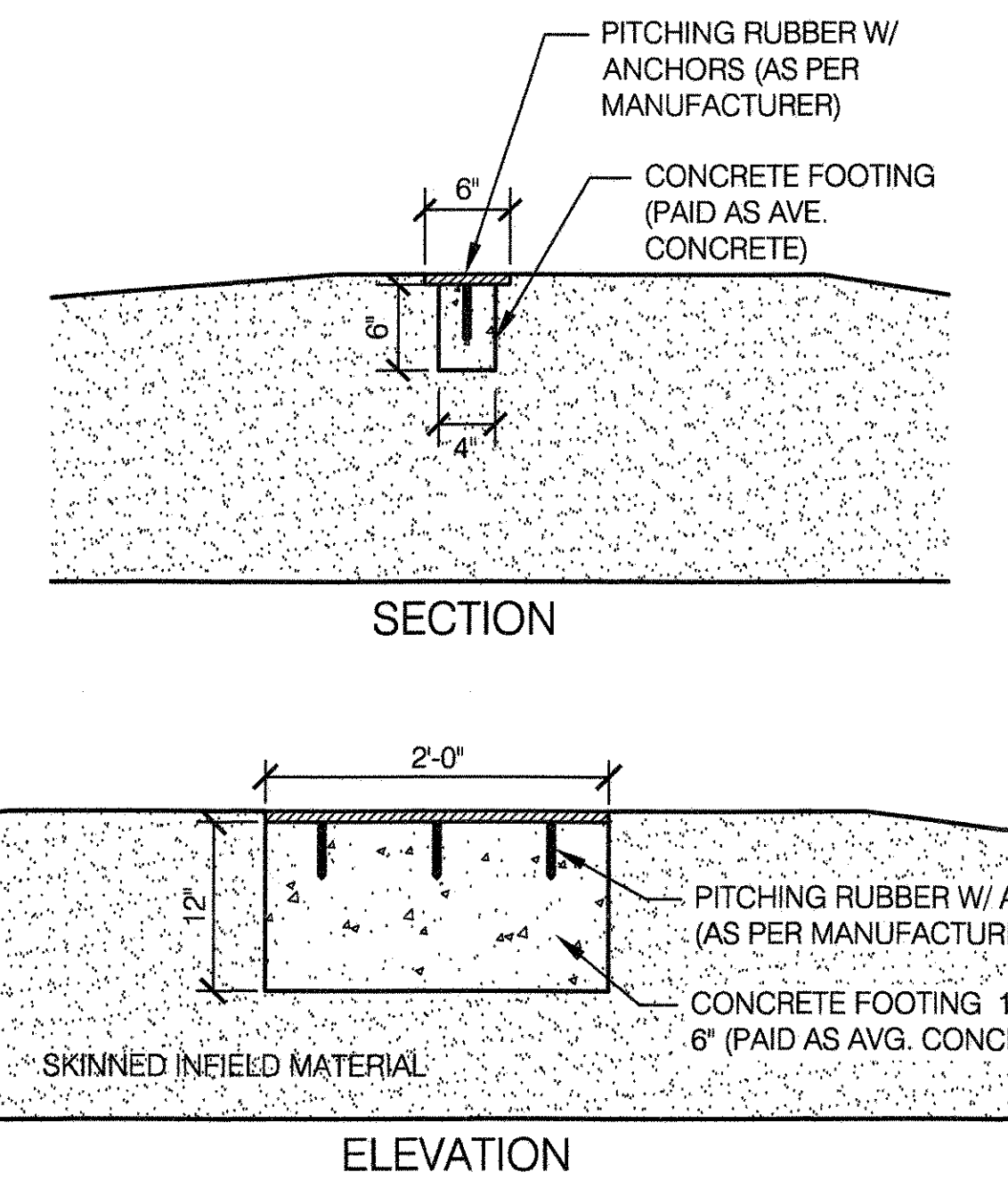
3 HOME PLATE DETAIL
SCALE 1 1/2" = 1'-0"



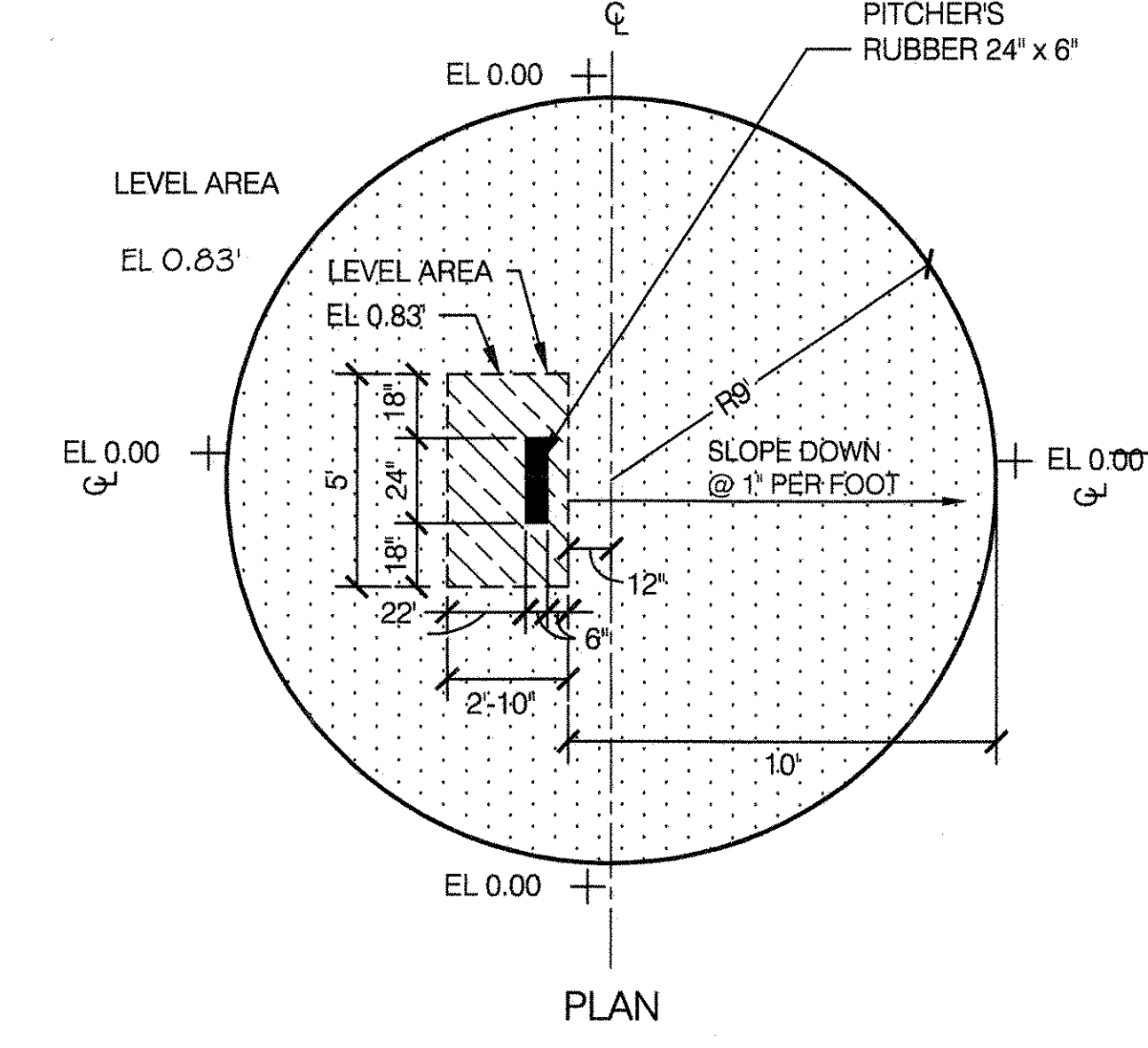
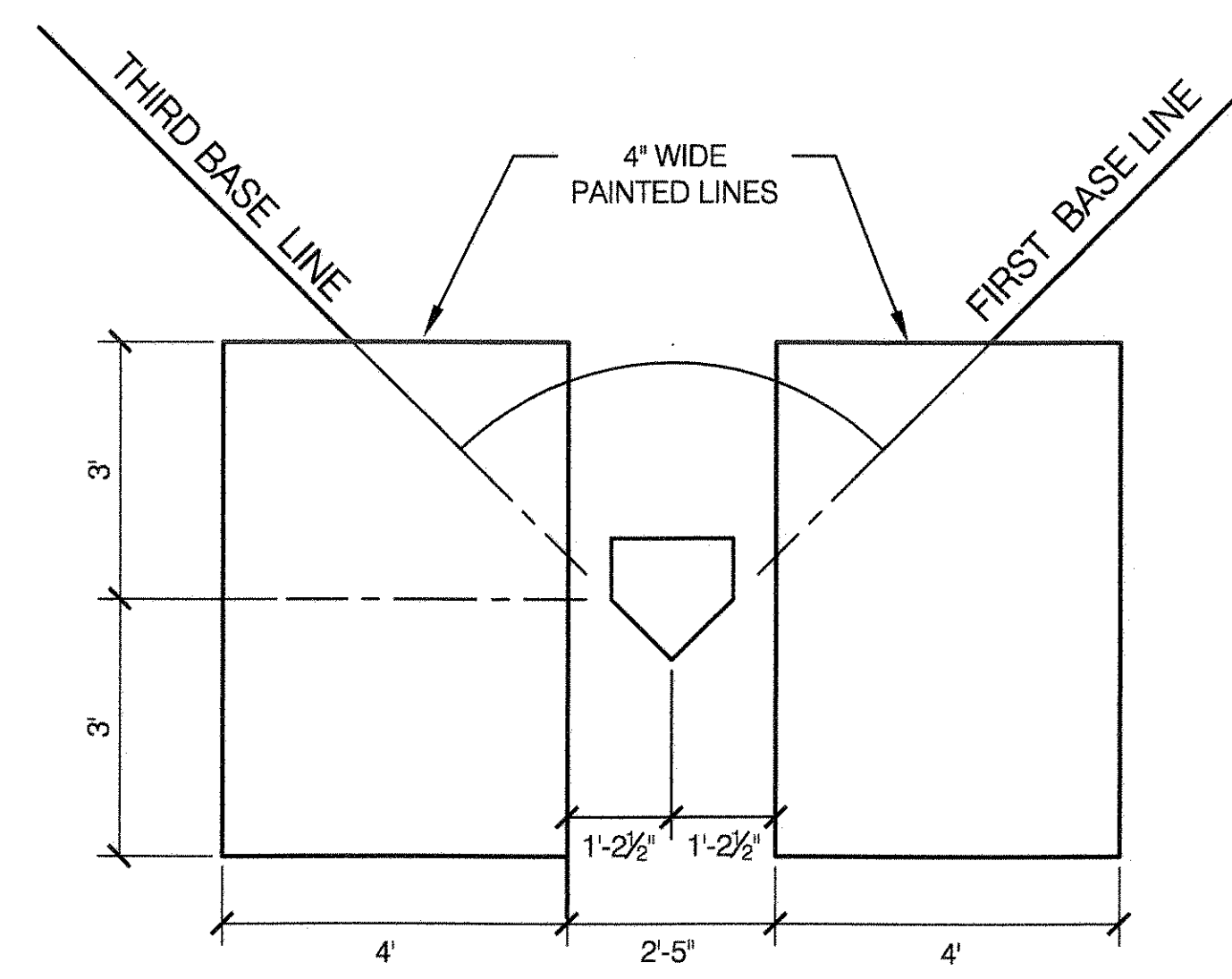
4 BASEBALL PITCHER'S MOUND DETAIL
SCALE 1/2" = 1'-0"



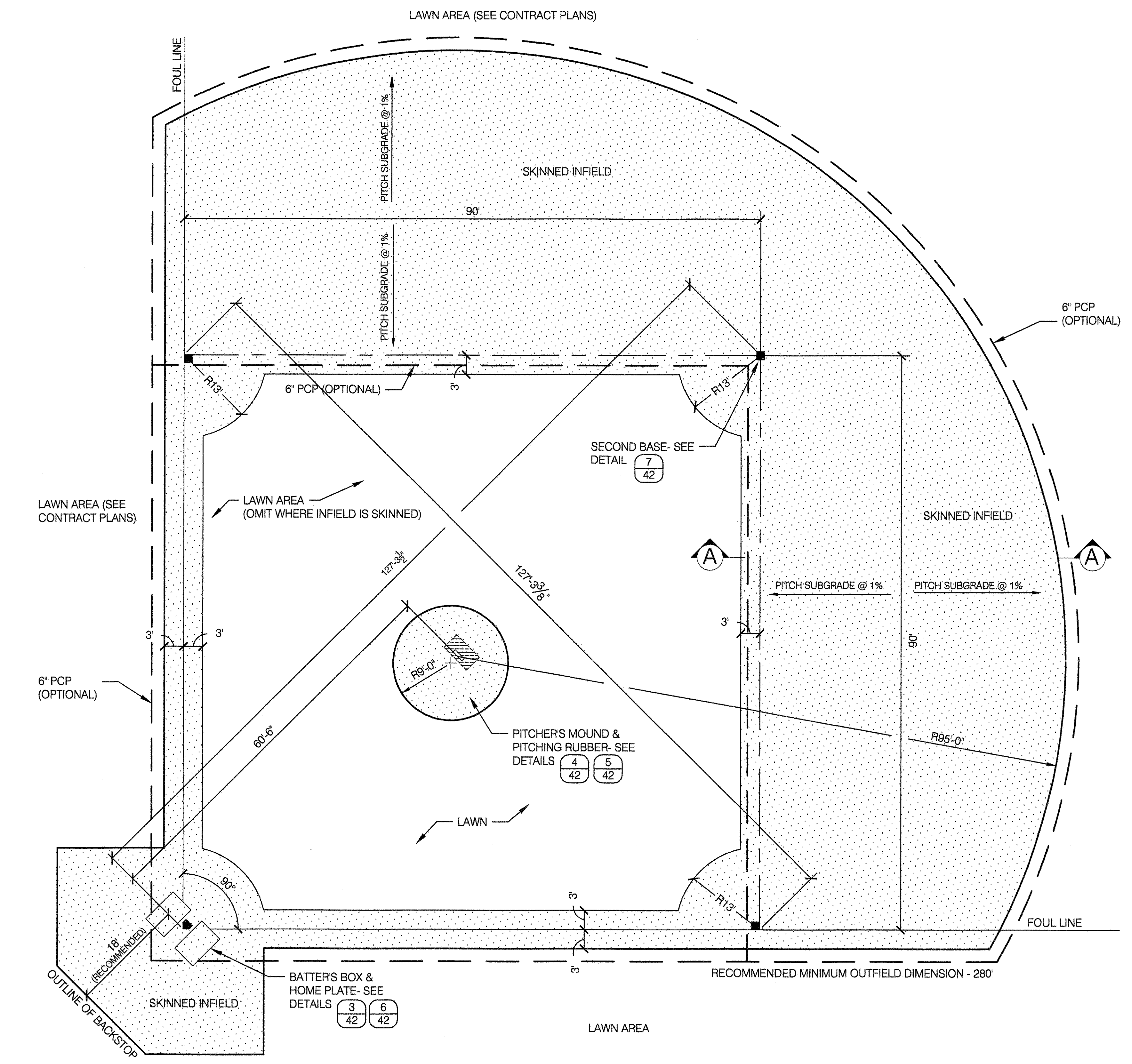
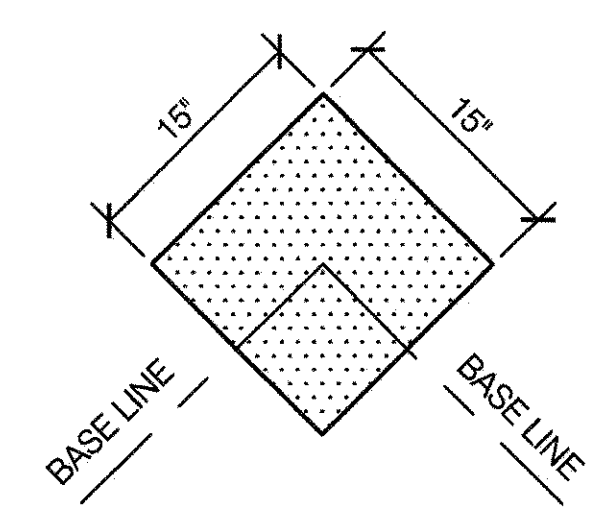
5 PITCHING RUBBER DETAIL
SCALE 1" = 1'-0"



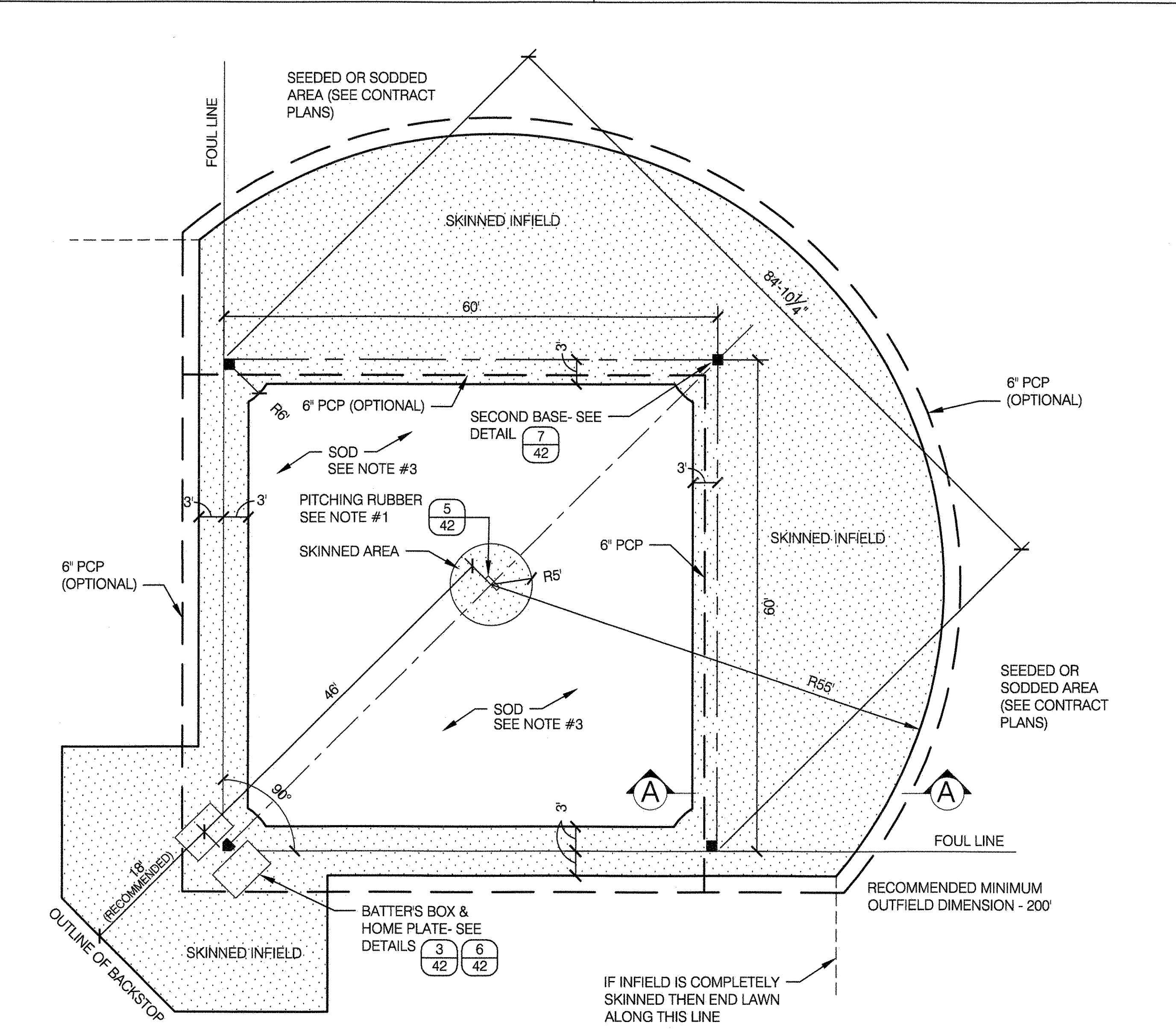
6 BASEBALL BATTER'S BOX
SCALE 1/2" = 1'-0"



7 SECOND BASE DETAIL
SCALE 1" = 1'-0"



2 BASEBALL FIELD LAYOUT - 90' BASE PATHS
SCALE 1" = 10'-0"



8 LITTLE LEAGUE/SOFTBALL FIELD LAYOUT - 60' BASE PATHS
SCALE 1" = 10'-0"

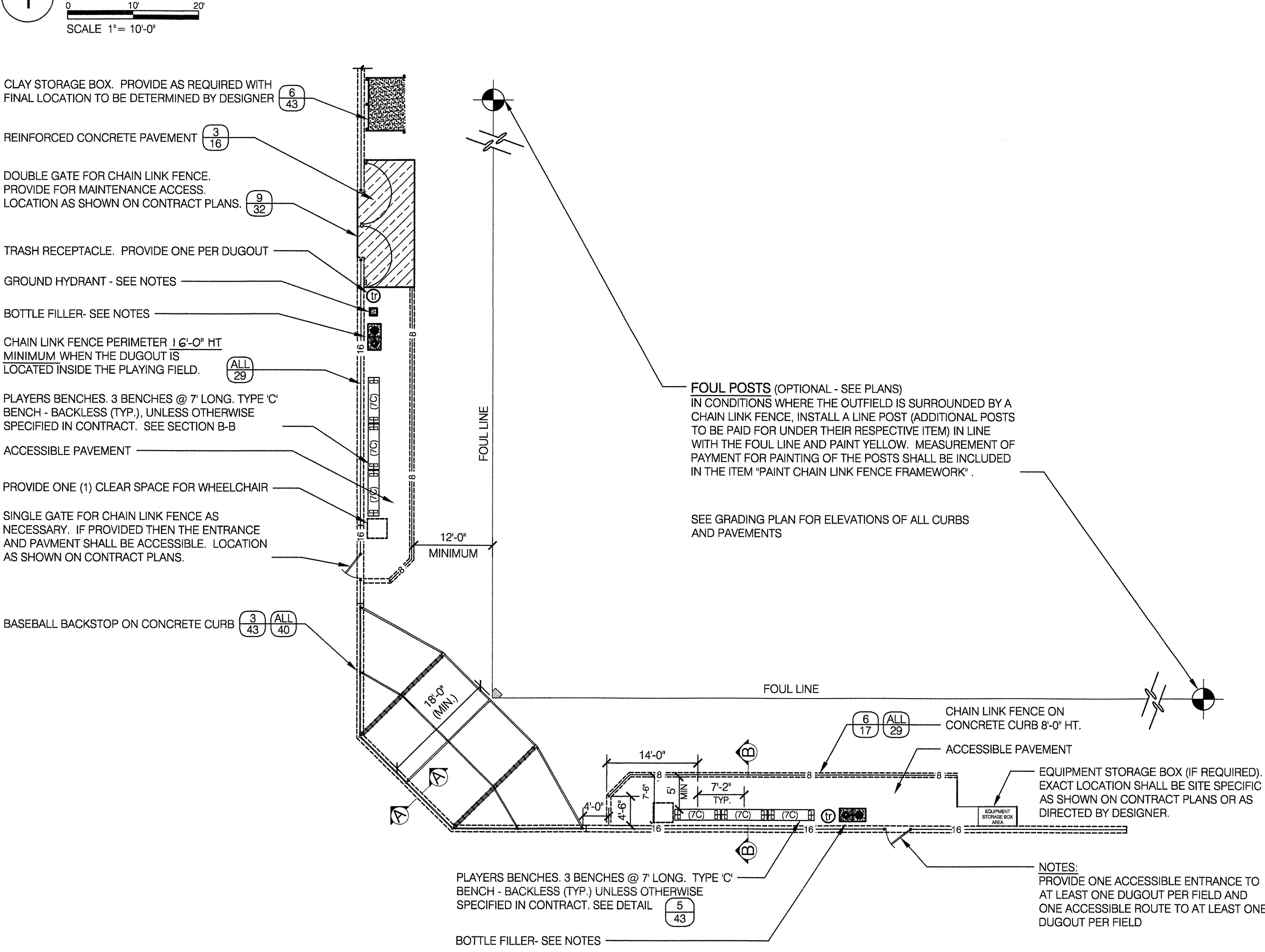
- NOTES:**
1. A SYNTHETIC TURF 90 FOOT BASE PATH MAY REQUIRE A PORTABLE PITCHER'S MOUND. CHECK WITH THE BOROUGH AS WELL AS THE LOCAL LEAGUE TO CONFIRM IF ONE IS NEEDED. A SYNTHETIC TURF LITTLE LEAGUE FIELD DOES NOT REQUIRE A PORTABLE PITCHERS MOUND.
 2. WHERE THE LITTLE LEAGUE FIELD WILL BE USED FOR BOTH BASEBALL AND SOFTBALL THEN THE PITCHERS AREA SHALL BE FLAT.
 3. INFIELD MAY BE SKINNED WHERE USED FOR SOFTBALL, SOD WHERE USED FOR LITTLE LEAGUE PLAY. SEE CONTRACT PLANS.
 4. ALL PAINTED LINES SHALL BE 4" WIDTH

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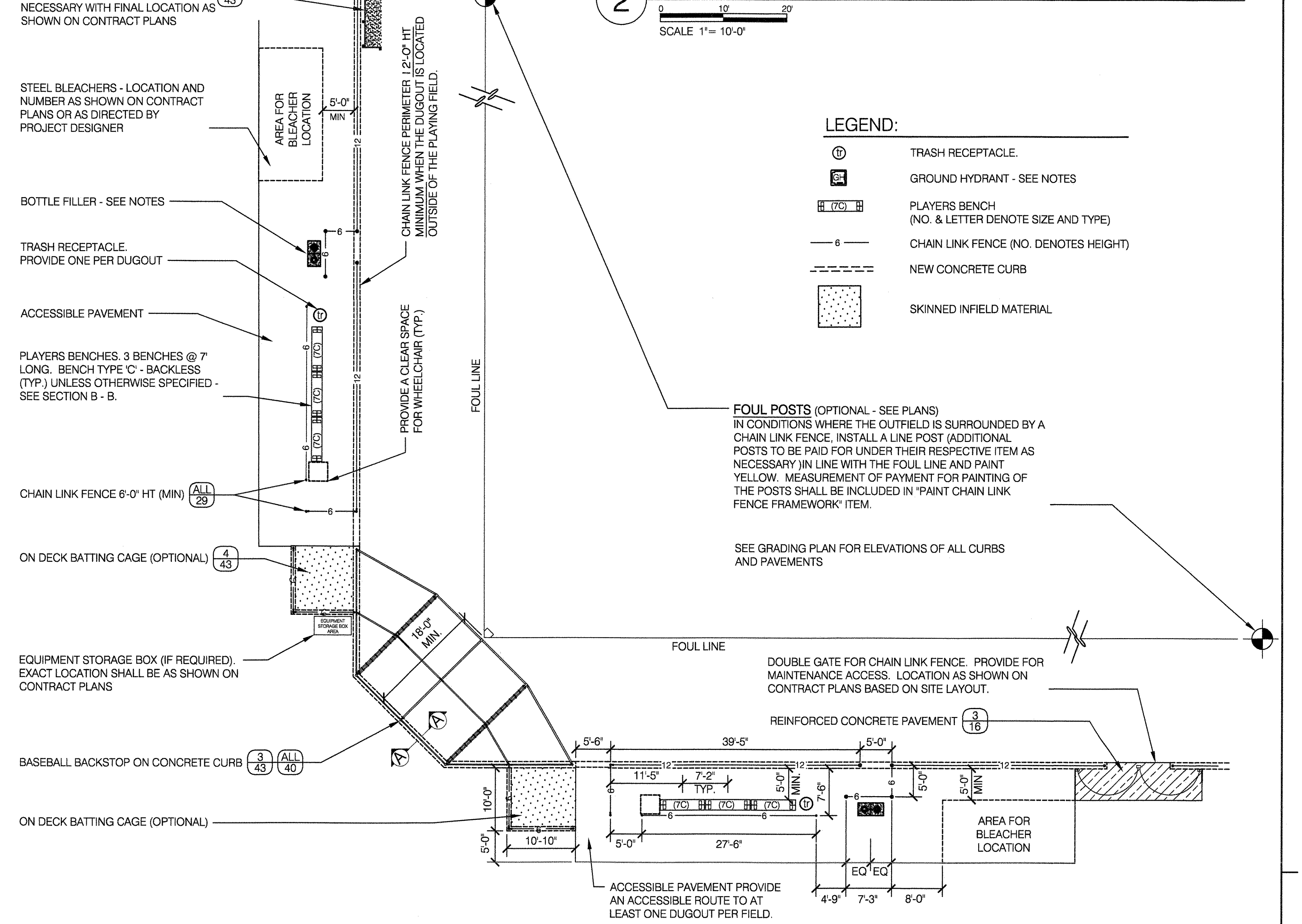
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DRAWING TITLE: **BALLFIELD LAYOUTS - NATURAL TURF**

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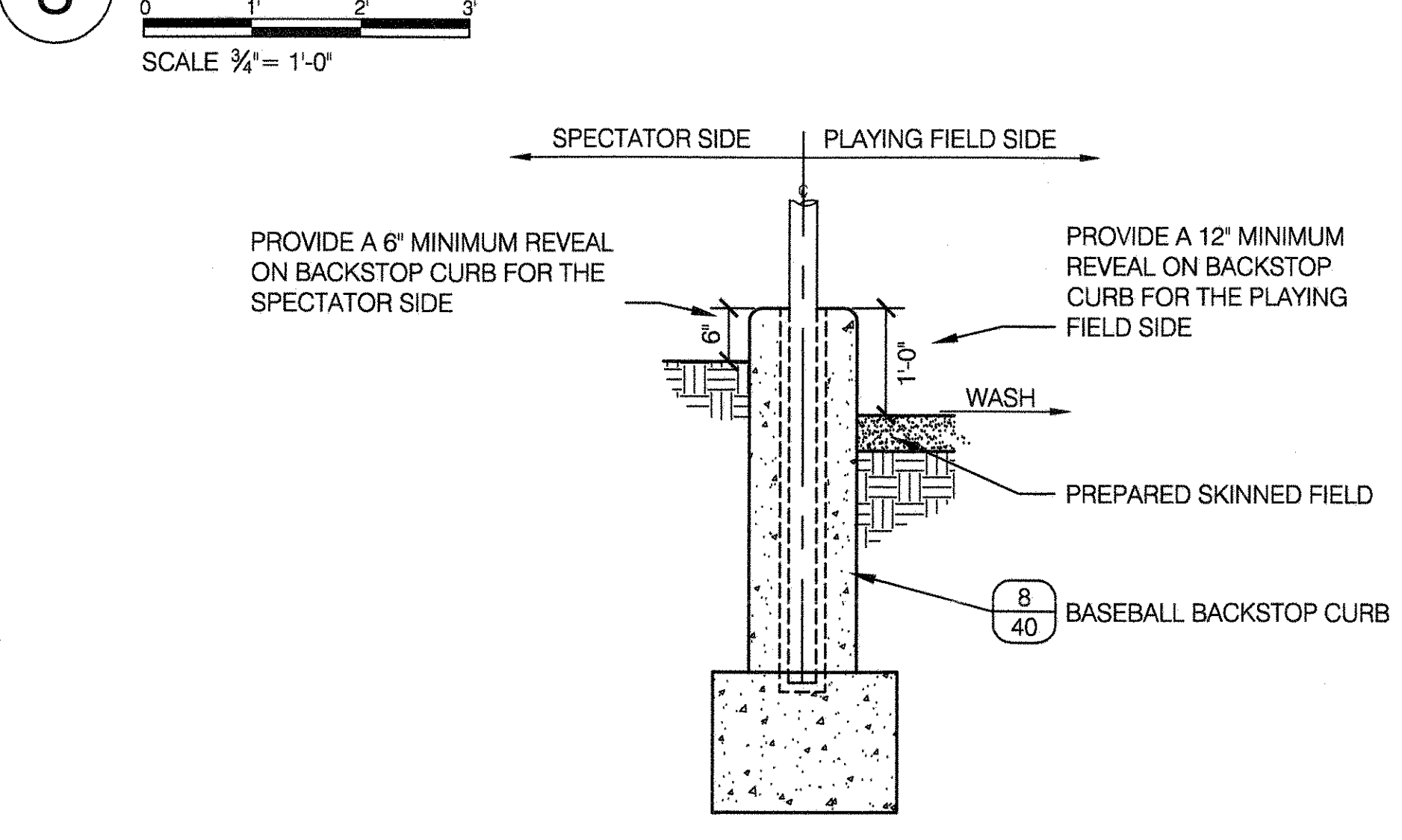
1 DUGOUT LAYOUT - INSIDE PLAYING FIELD



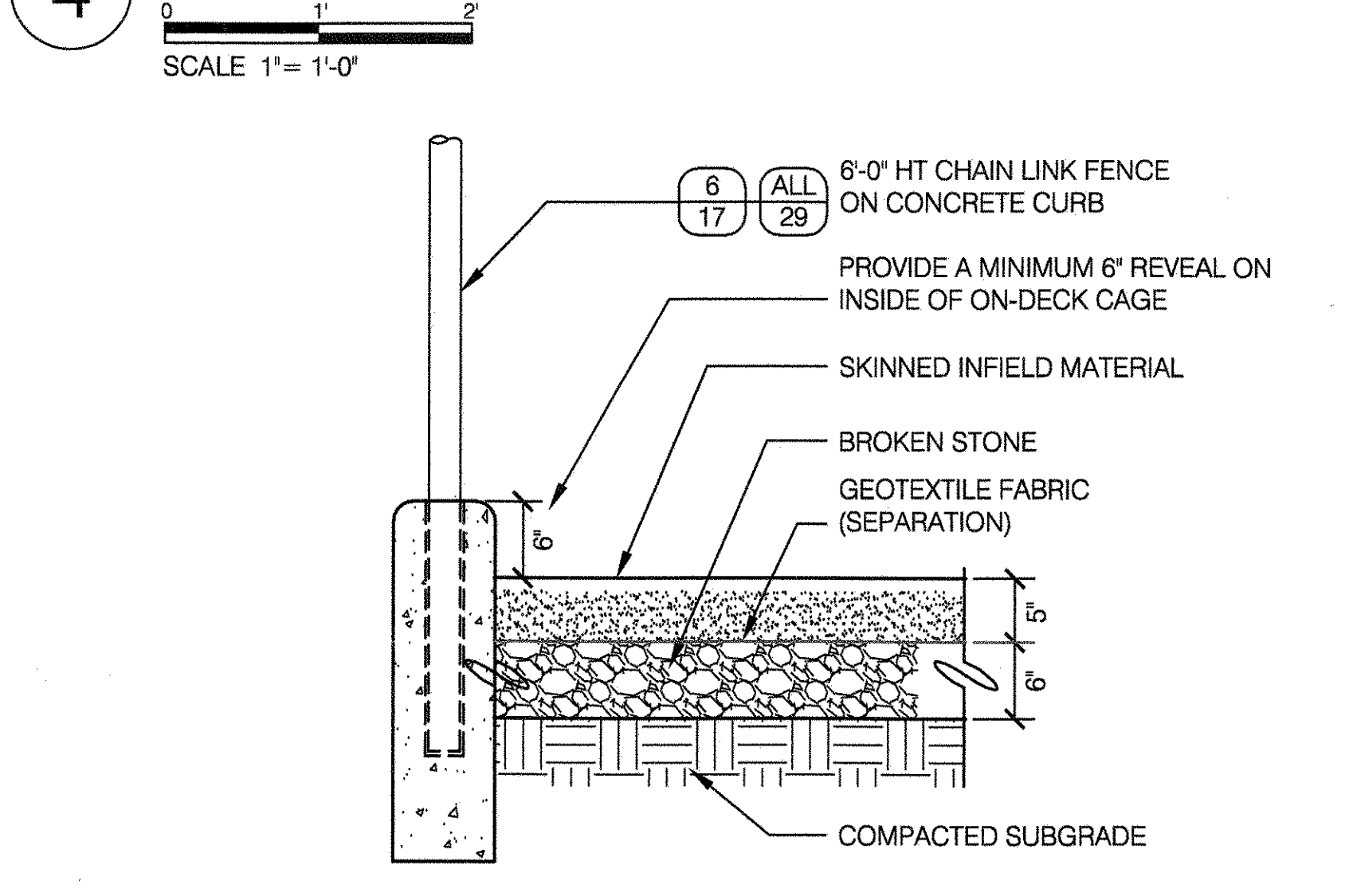
2 DUGOUT LAYOUT - OUTSIDE PLAYING FIELD



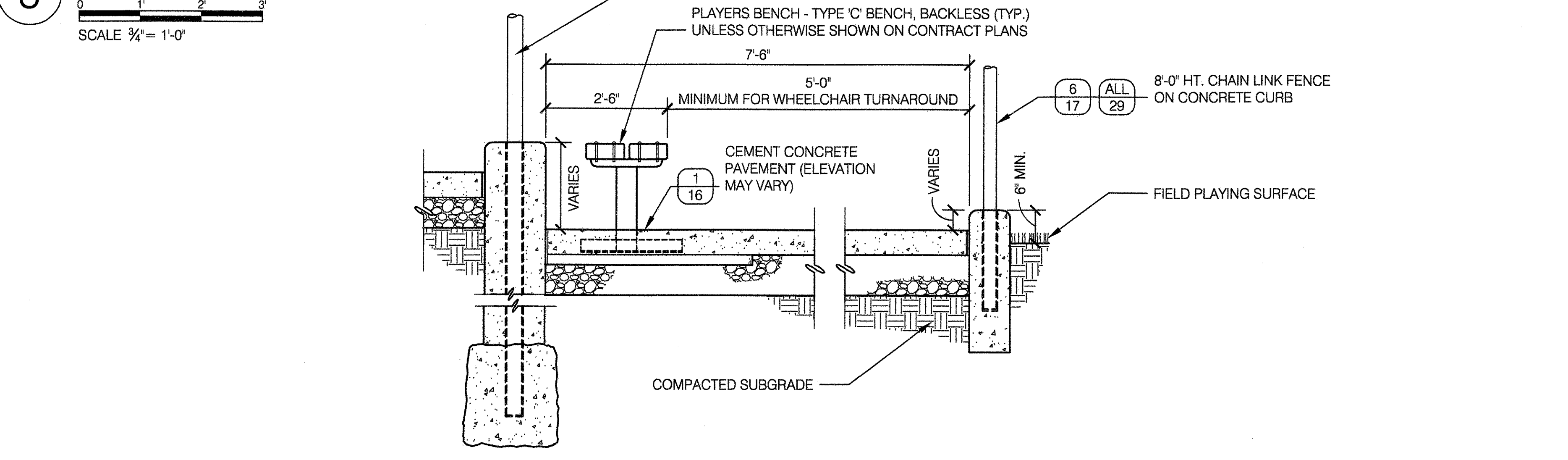
3 SECTION A-A



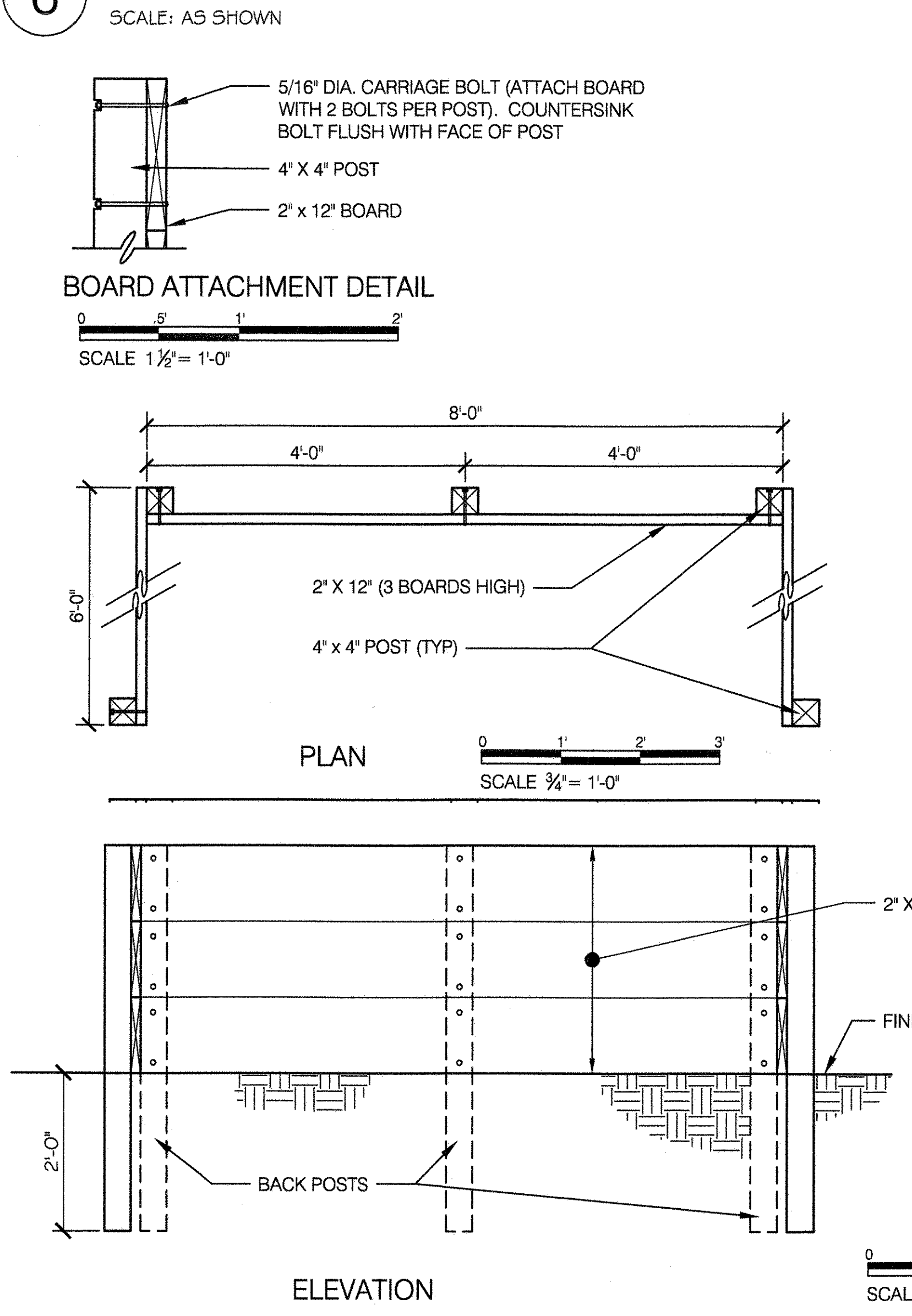
4 ON DECK BATTERS CAGE DETAIL



5 SECTION B-B



6 CLAY STORAGE BOX



- NOTES:**
1. PROVIDE ONE WHEELCHAIR ACCESSIBLE BOTTLE FILLER OR DRINKING FOUNTAIN PER FIELD. BE SURE TO MAINTAIN 3'-0" MINIMUM CLEARANCE BETWEEN DRINKING FOUNTAIN AND DUGOUT FENCE. MAKE SURE THE FOUNTAIN IS ALIGNED CORRECTLY TO ALLOW WHEEL CHAIR ACCESS CLEAR FLOOR SPACE (SEE STANDARD DETAIL FOR BOTTLE FILLER/DRINKING FOUNTAIN).
 2. IF POSSIBLE PROVIDE ONE BOTTLE FILLER OR DRINKING FOUNTAIN PER DUGOUT, (TWO PER FIELD).
 3. USE QUICK COUPLERS INSTEAD OF GROUND HYDRANTS WHEN AN RPZ IS NOT AVAILABLE ON SITE. PROVIDE A MINIMUM OF ONE PER FIELD.
 4. EACH BALL FIELD SHALL PROVIDE AT LEAST ONE DUGOUT WITH AN ACCESSIBLE ROUTE.
 5. DETAILS AND LAYOUTS SHOWN ARE MINIMUM DESIGN GUIDELINES. THE DESIGNER SHALL ADJUST LAYOUT AS NECESSARY BASED ON SAFETY AND SITE CONDITIONS.
 6. OUTFIELD FENCE (IF NEEDED) SHALL BE 8'-0" MINIMUM HEIGHT.

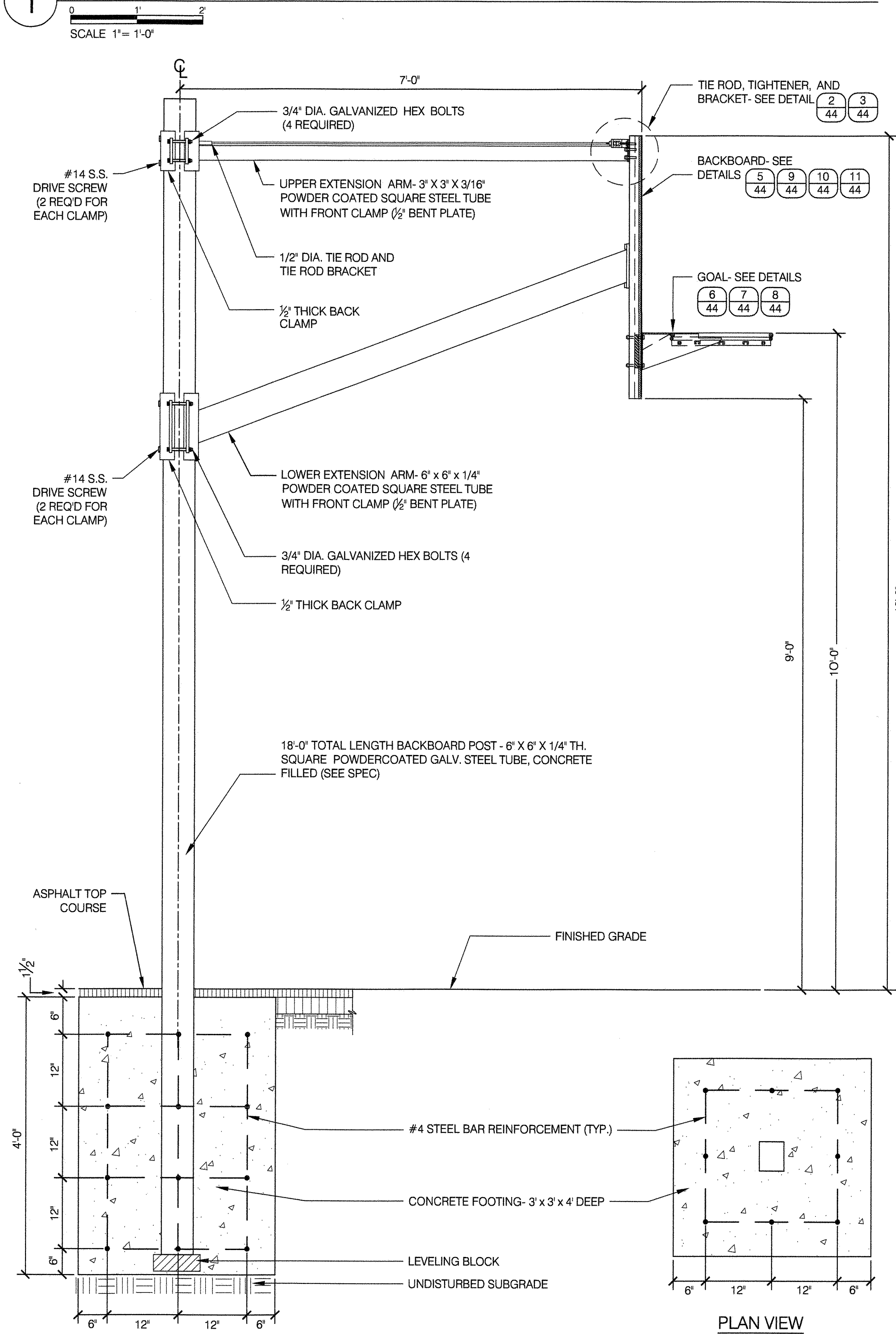
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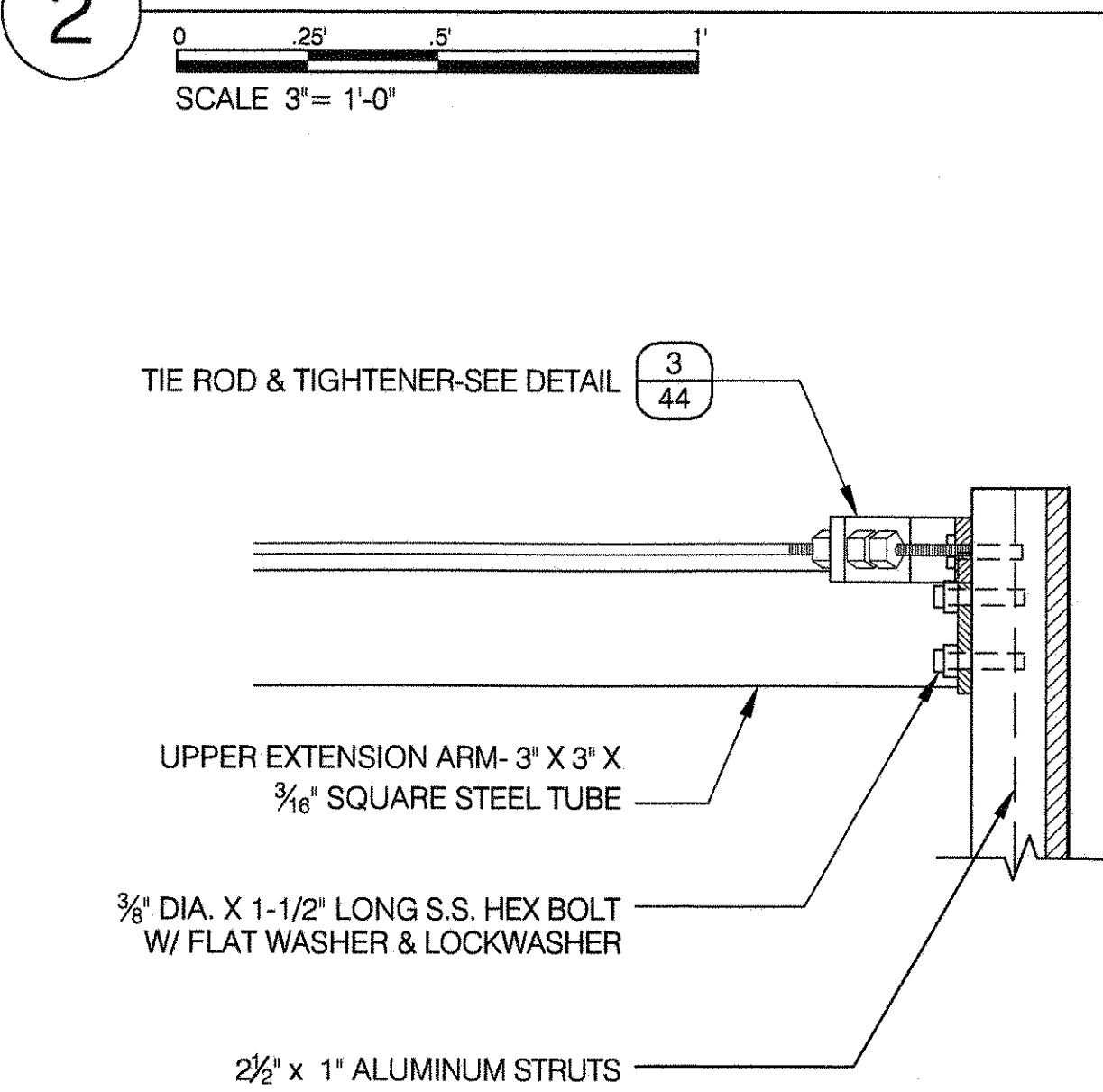
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 DRAWING TITLE: **BALLFIELD DETAILS**

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APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 43
DATE 09-01-2020	SCALE AS SHOWN

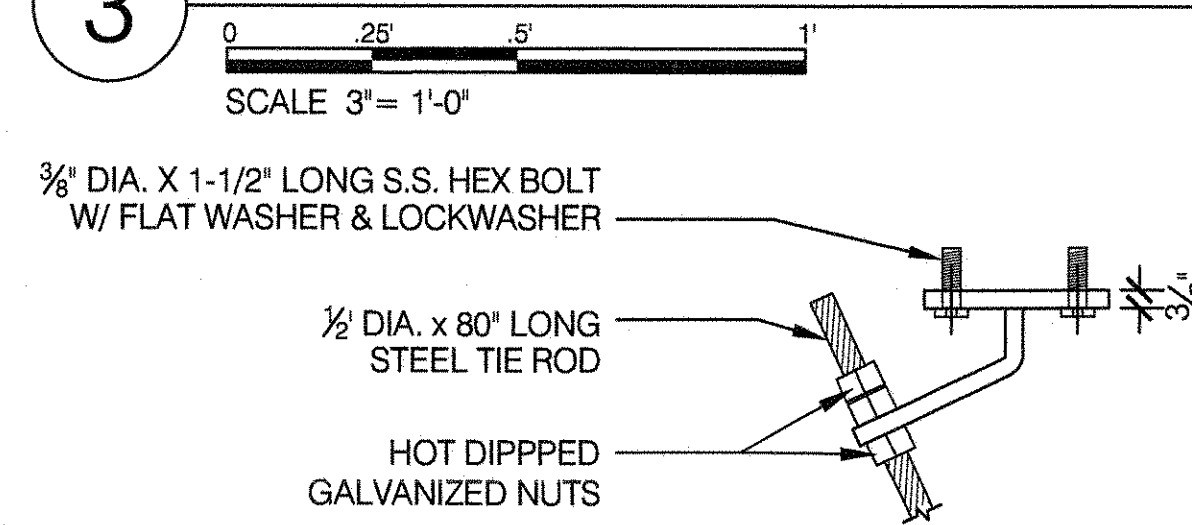
1 SIDE ELEVATION OF BASKETBALL BACKSTOP



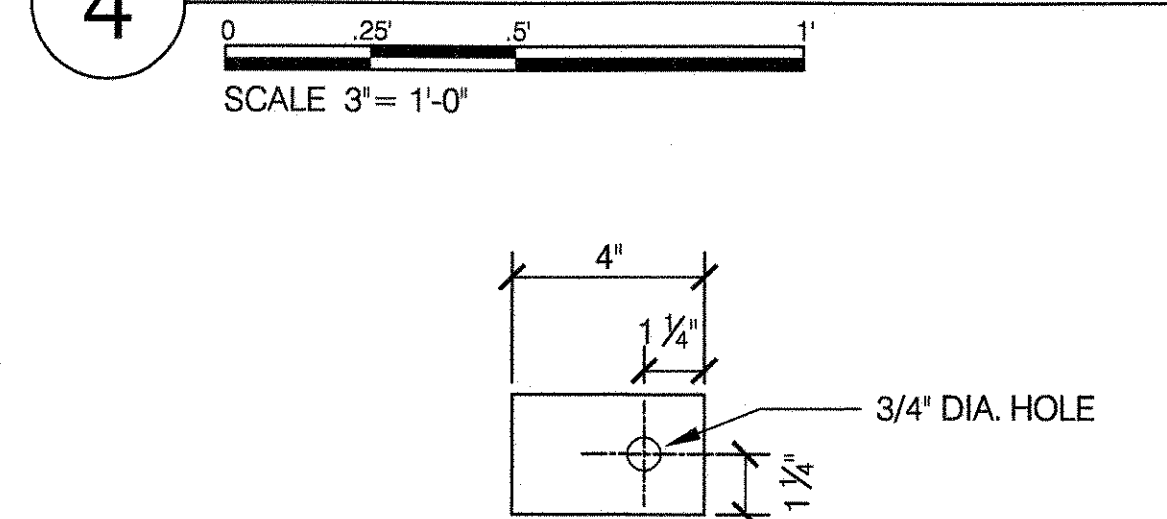
2 TIE ROD, TIGHTENER AND BRACKET



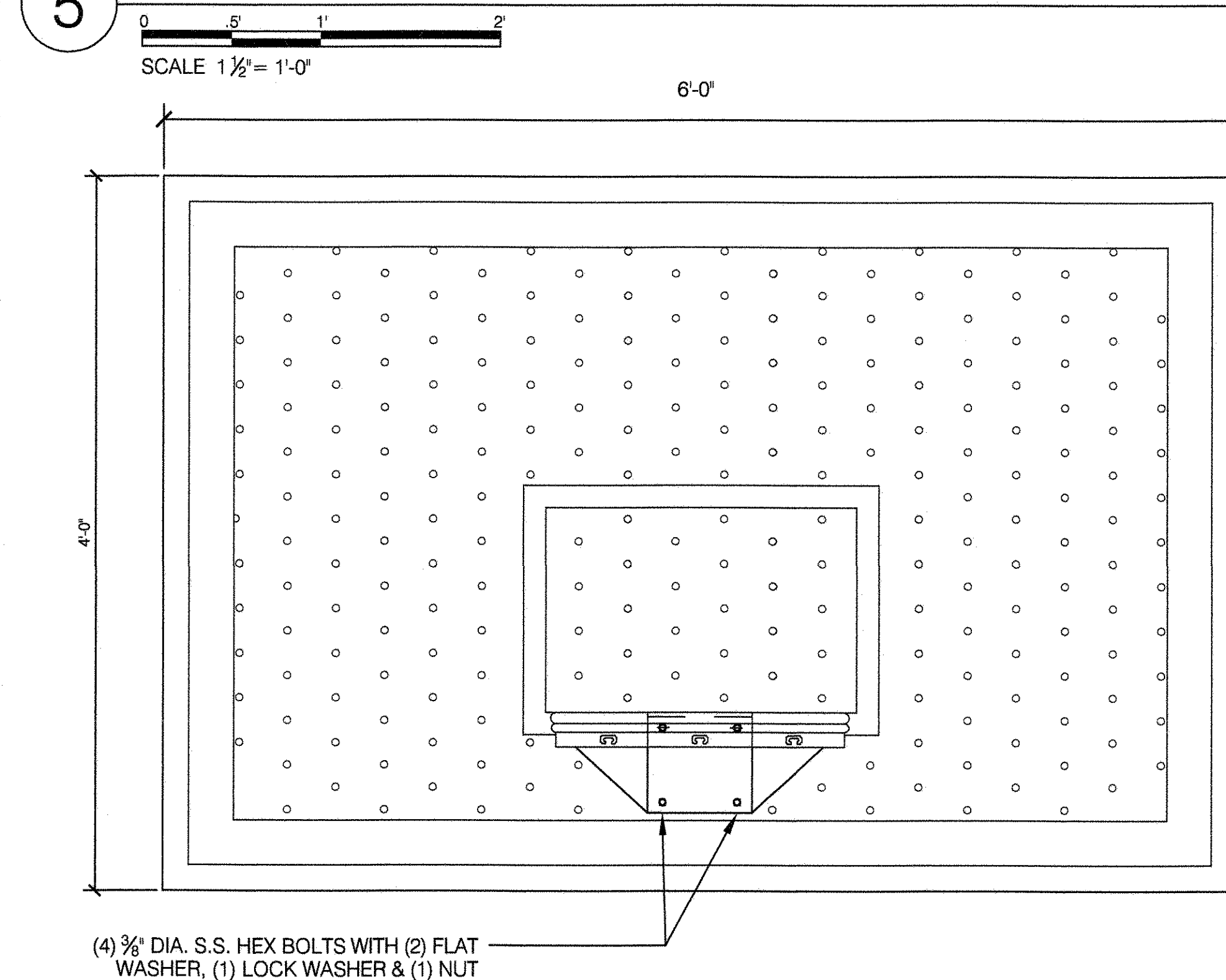
3 TIE ROD AND TIGHTENER



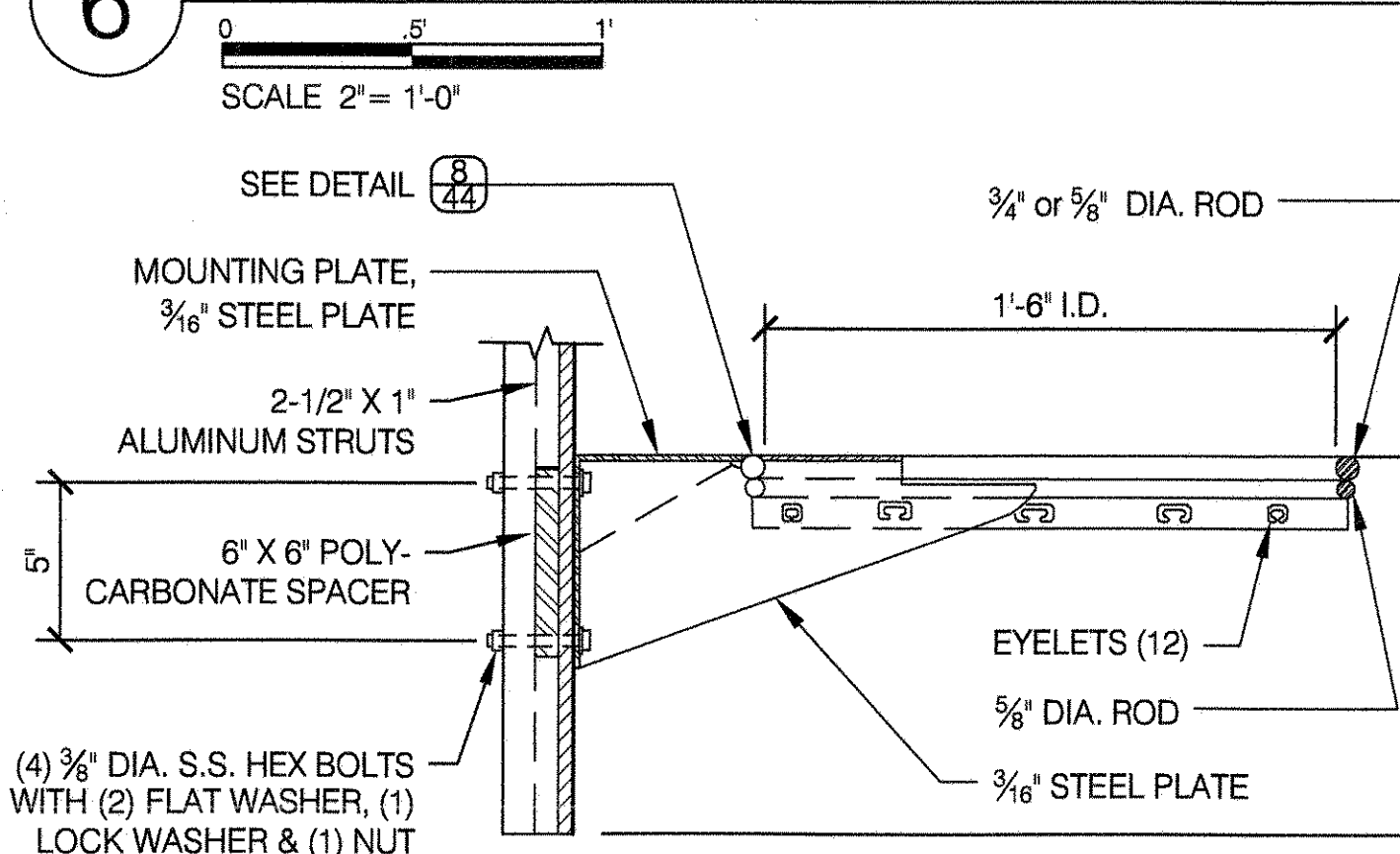
4 RECT. TIE ROD BRACKET



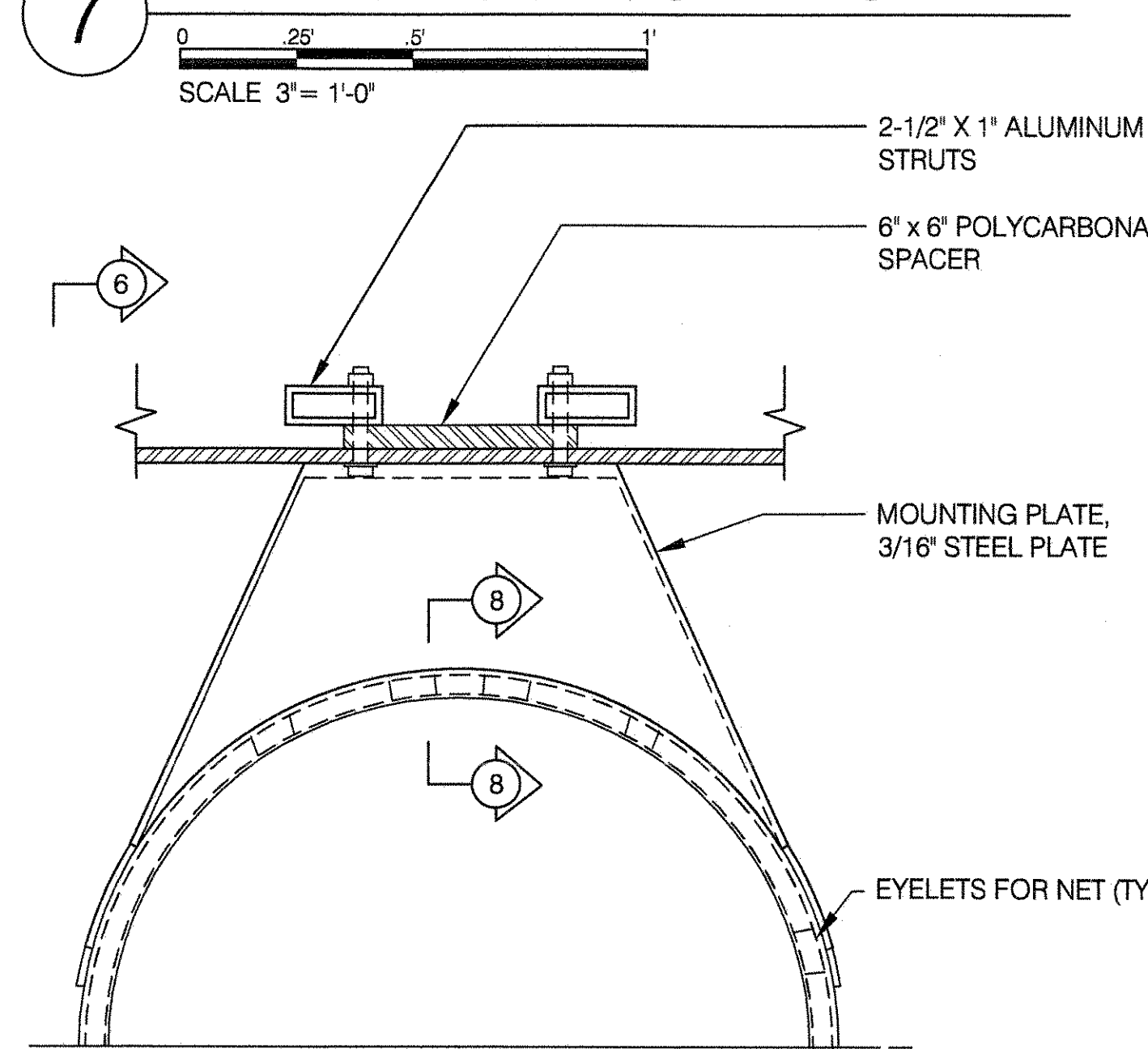
5 FRONT ELEVATION OF BASKETBALL BACKBOARD



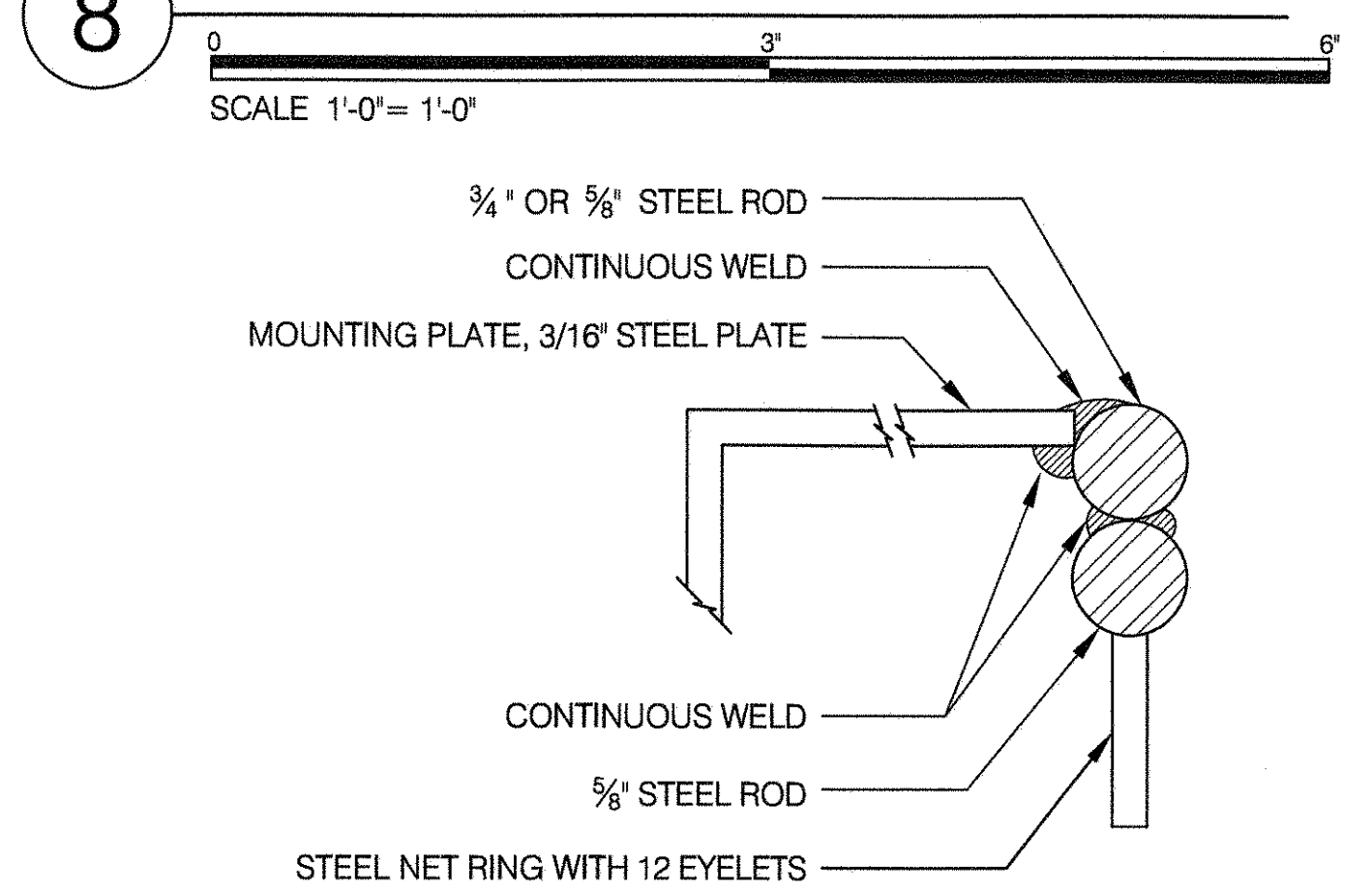
6 SECTION OF GOAL & BRACKET



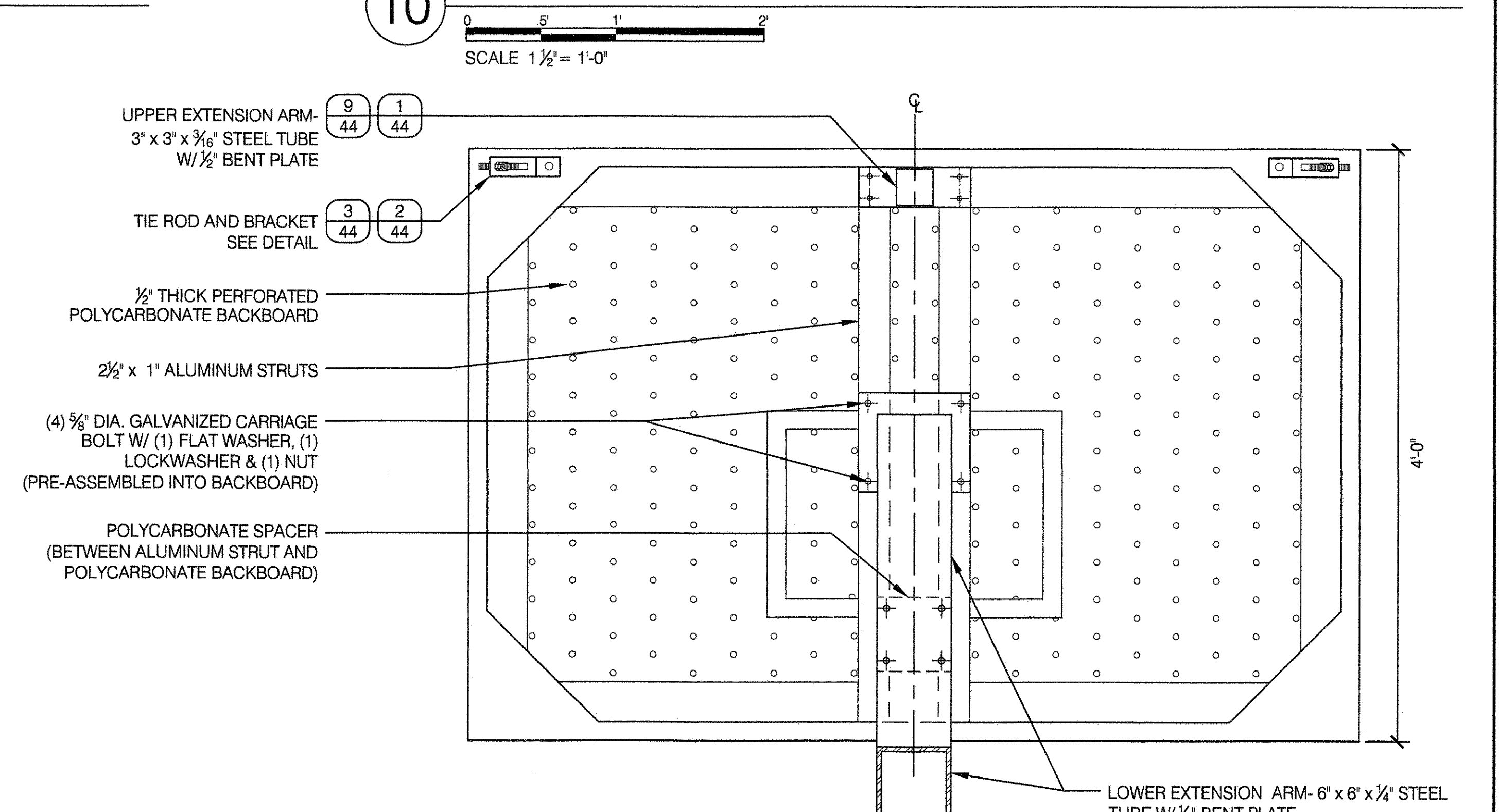
7 PLAN OF GOAL & BRACKET



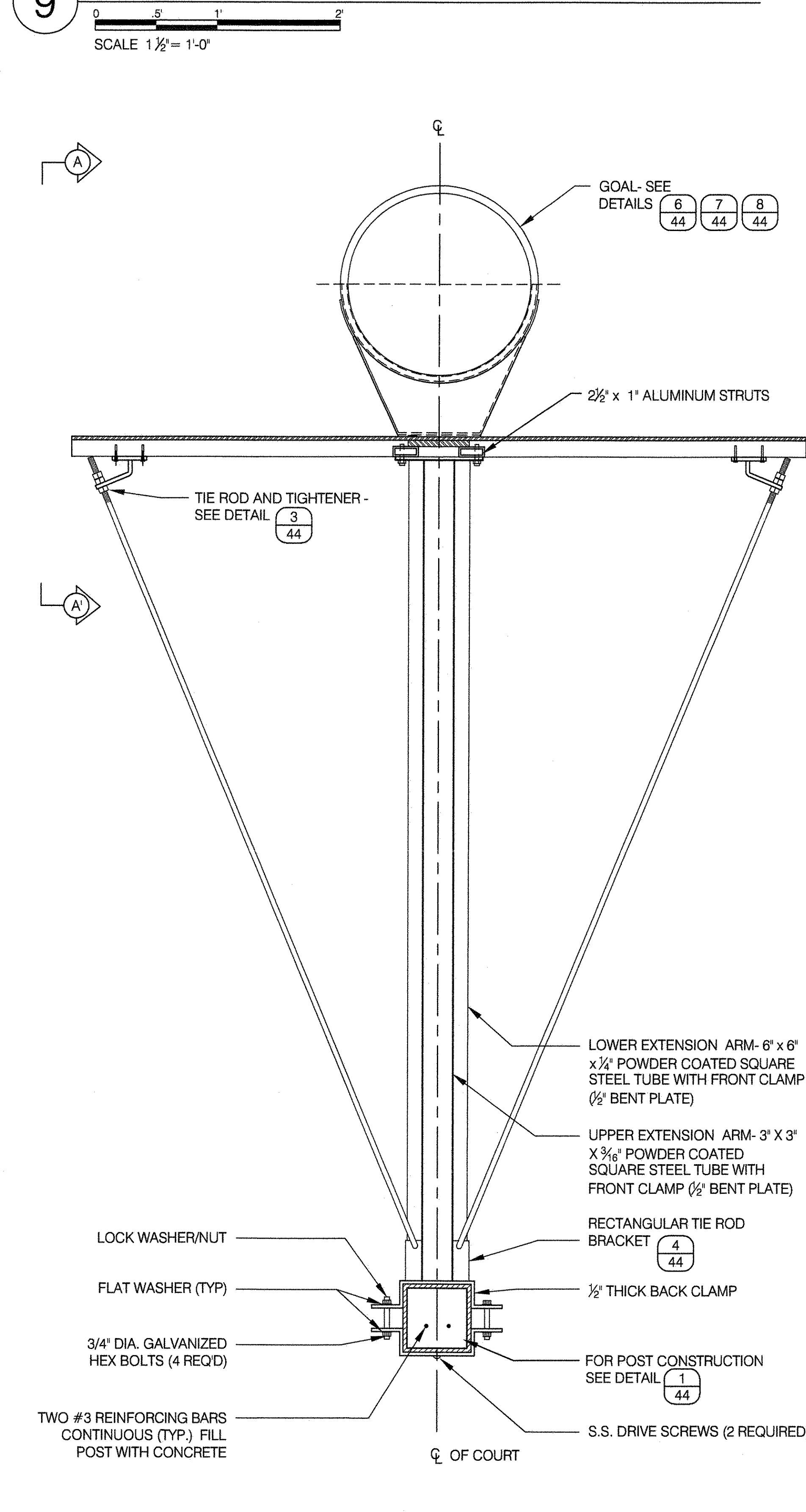
8 DETAIL OF RIM WELDING



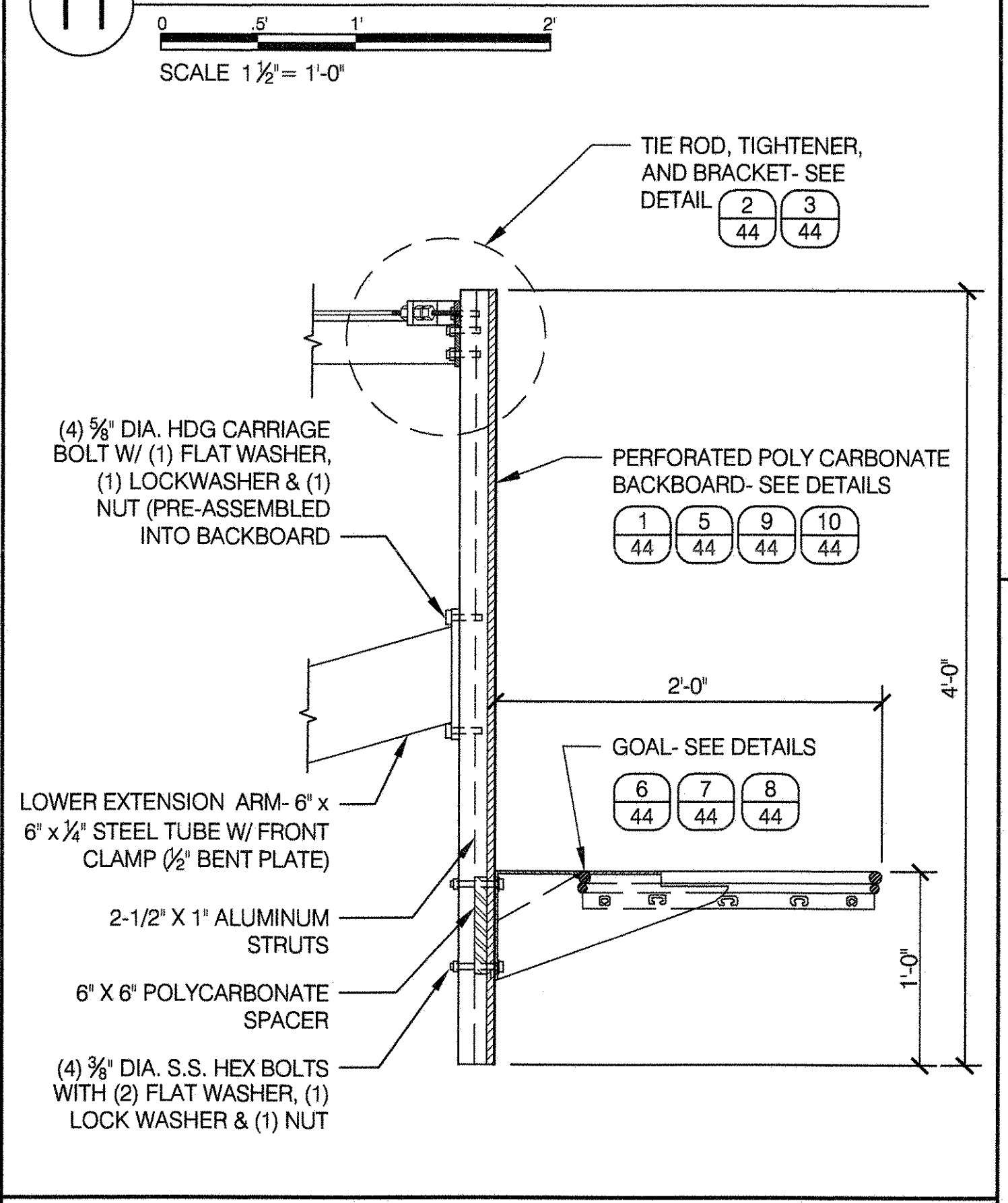
10 BACK ELEVATION OF BASKETBALL BACKBOARD



9 PLAN OF BASKETBALL BACKSTOP



11 SECTION A-A: BACKBOARD



- NOTES:**
- POSTS FOR BASKETBALL BACKSTOP SHALL BE POWDERCOATED STEEL.
 - ALL BOLTS AND NUTS SHALL BE GALVANIZED STEEL. DRIVE SCREWS SHALL BE STAINLESS STEEL.
 - ALL FASTENING SHALL BE COATED WITH HIGH LOCKING ADHESIVE IMMEDIATELY PRIOR TO TIGHTENING. SEE SPEC.
 - DIMENSIONS MAY VARY BETWEEN MANUFACTURERS. SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL.
 - FOR LAYOUT SEE STANDARD DETAIL 'BASKETBALL COURT LAYOUT' SHEET 45A.

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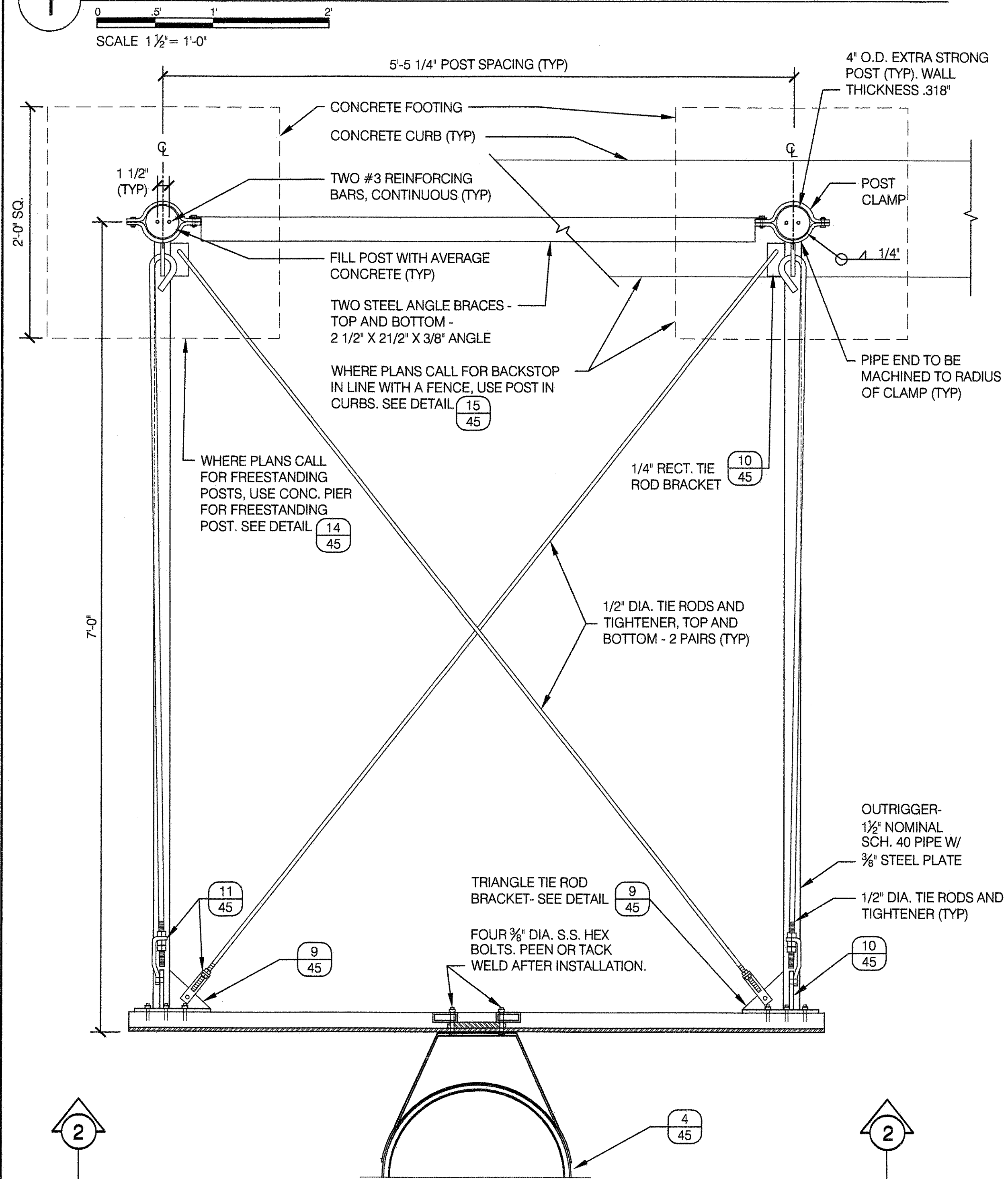
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DRAWING TITLE: BASKETBALL BACKSTOP - SINGLE POST

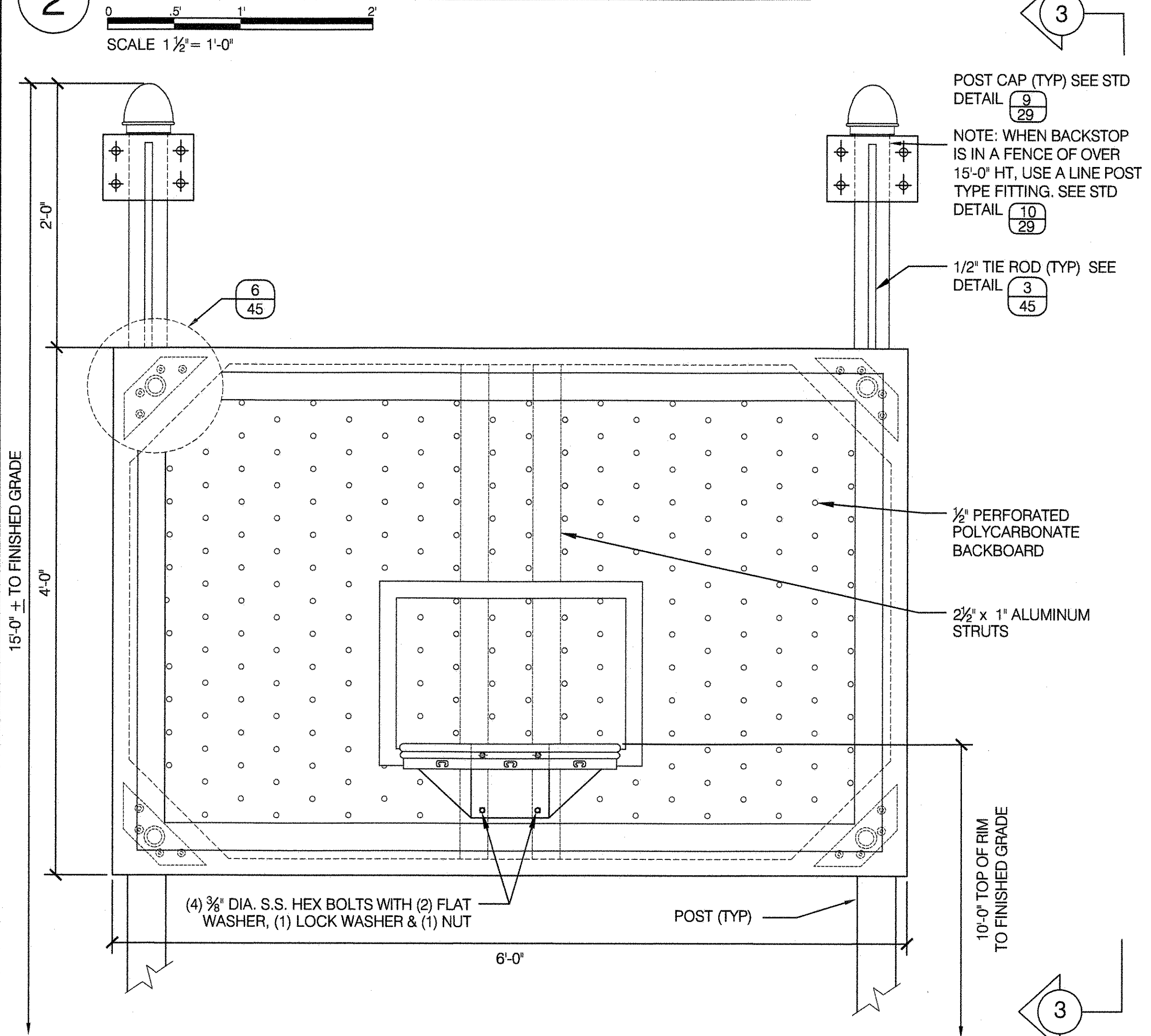
DRAWN BY: KEVIN MOUTHROP	CHECKED BY: R. WEI, PE
APPROVED BY: R. WEI, PE	STANDARD D.P.R. DETAIL: TYLA / 146-R10
APPROVED BY DIRECTOR: R. WEI, PE	SHEET NO.: 44
DATE: 09-01-2020	SCALE: AS SHOWN

Professional Engineer Seal: STATE OF NEW YORK, RUBY S. WEI, LICENSE NO. 091042

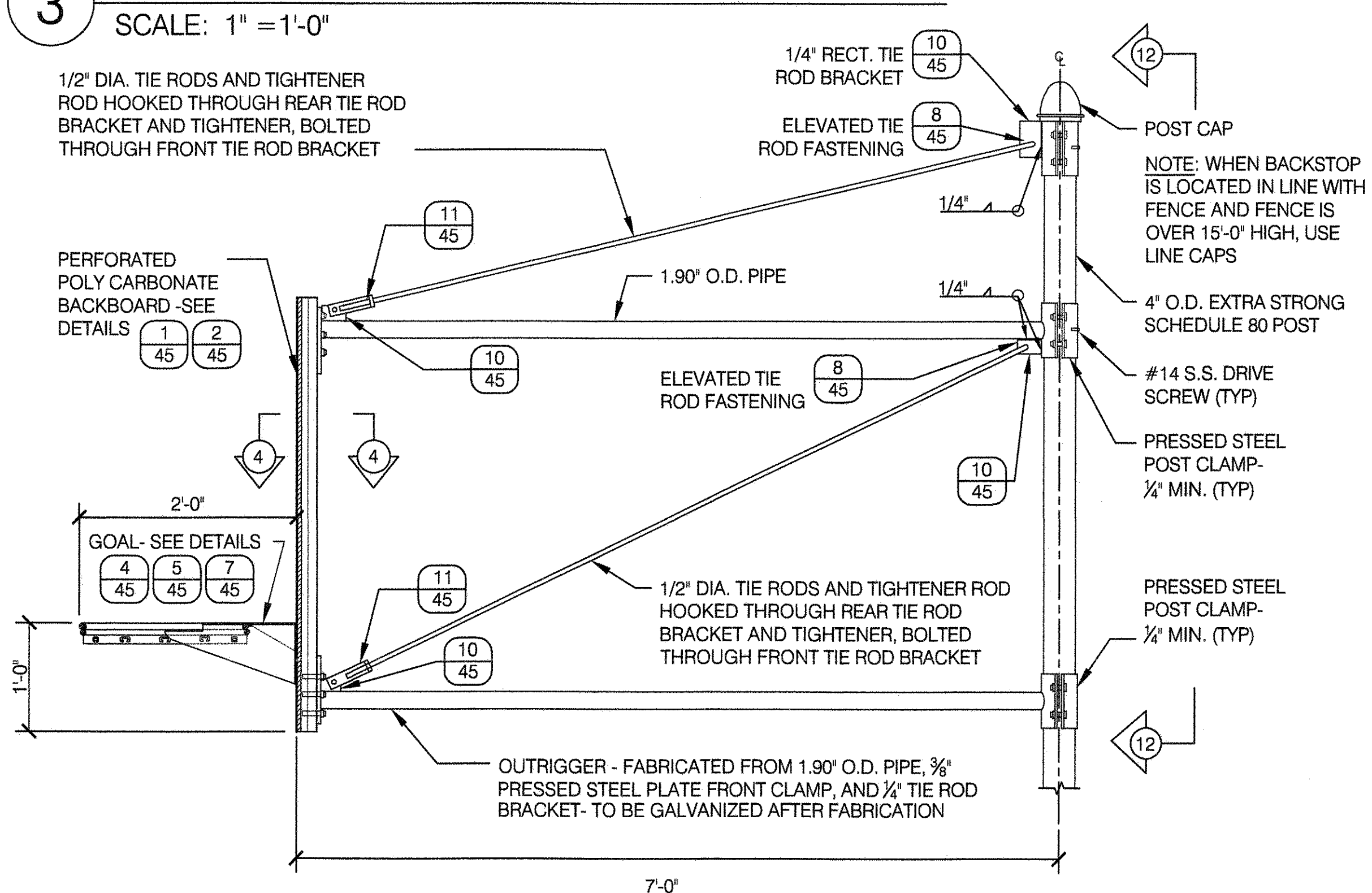
1 PLAN OF BASKETBALL BACKSTOP (FREESTANDING OR AT FENCE)



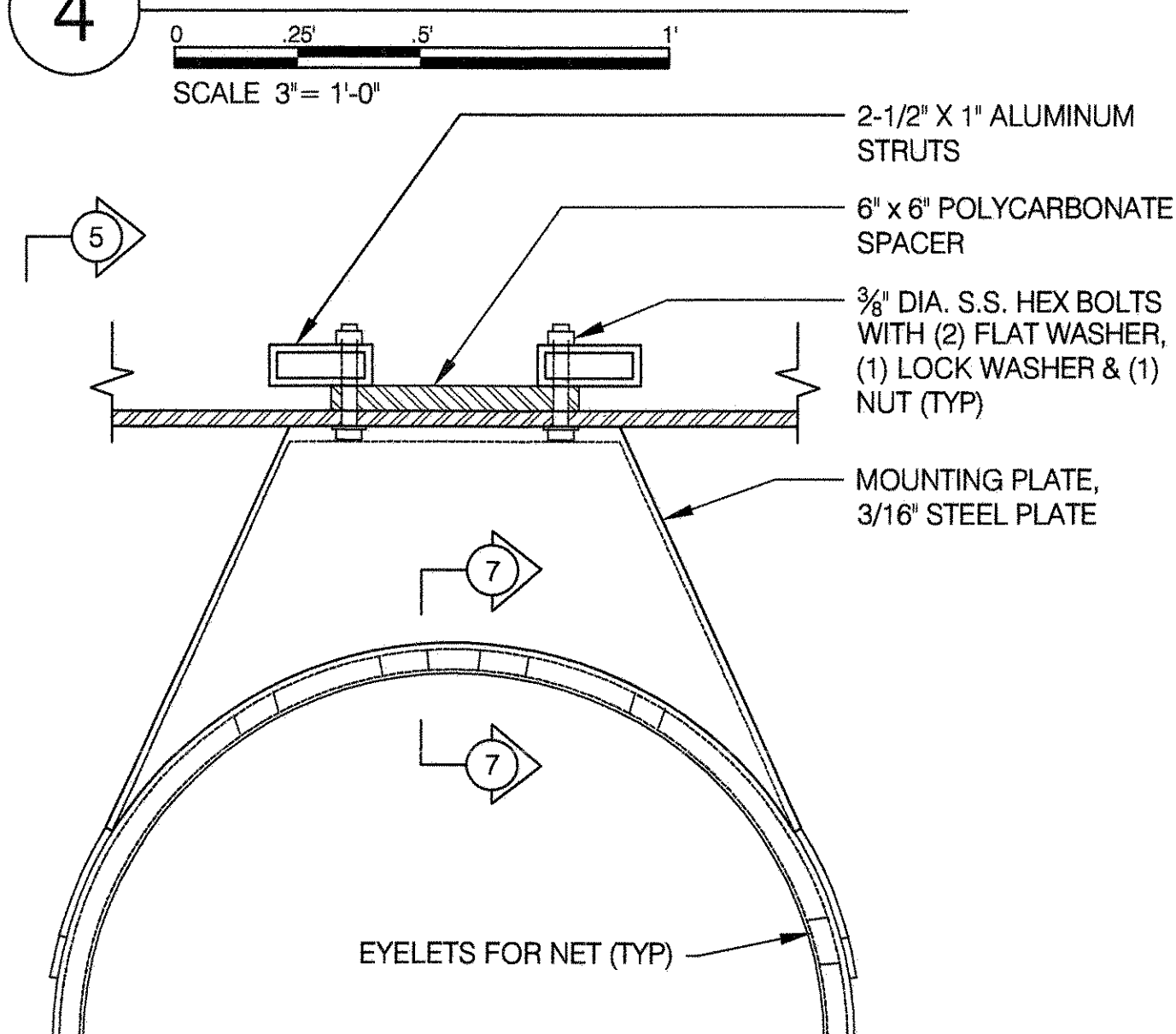
2 FRONT ELEVATION OF BASKETBALL BACKSTOP



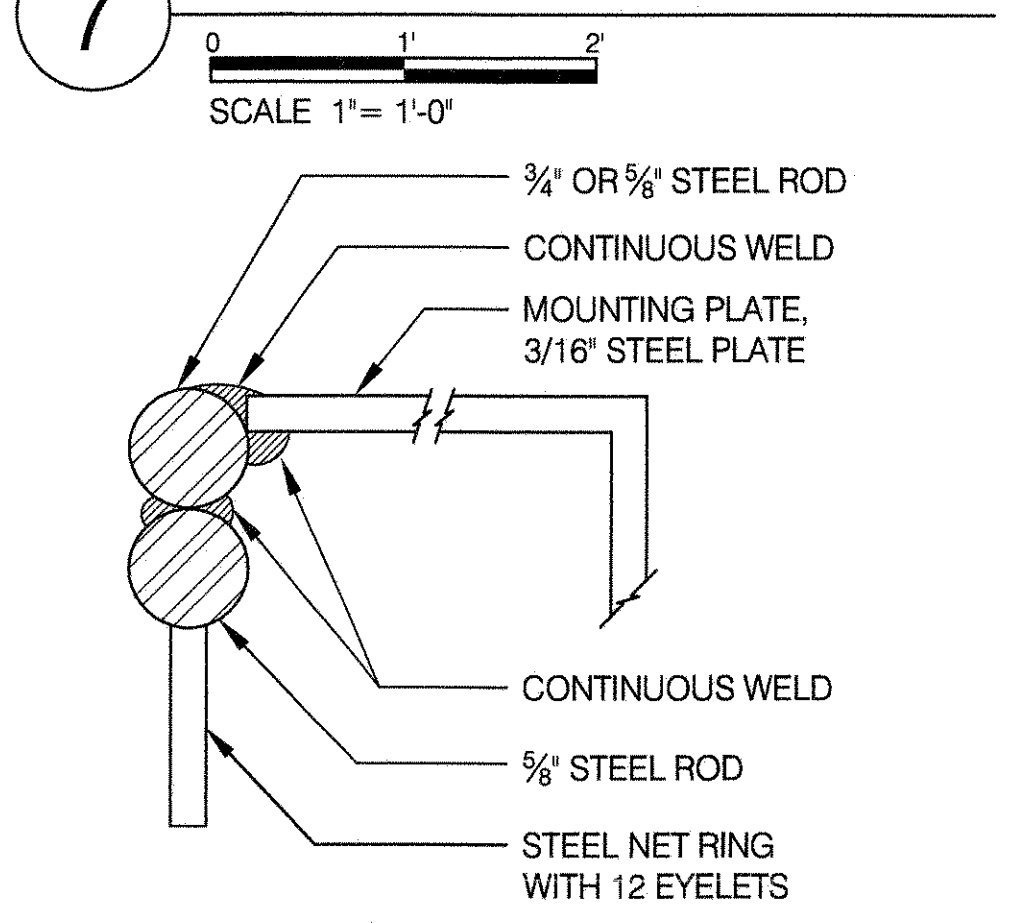
3 SIDE ELEVATION OF BASKETBALL BACKSTOP



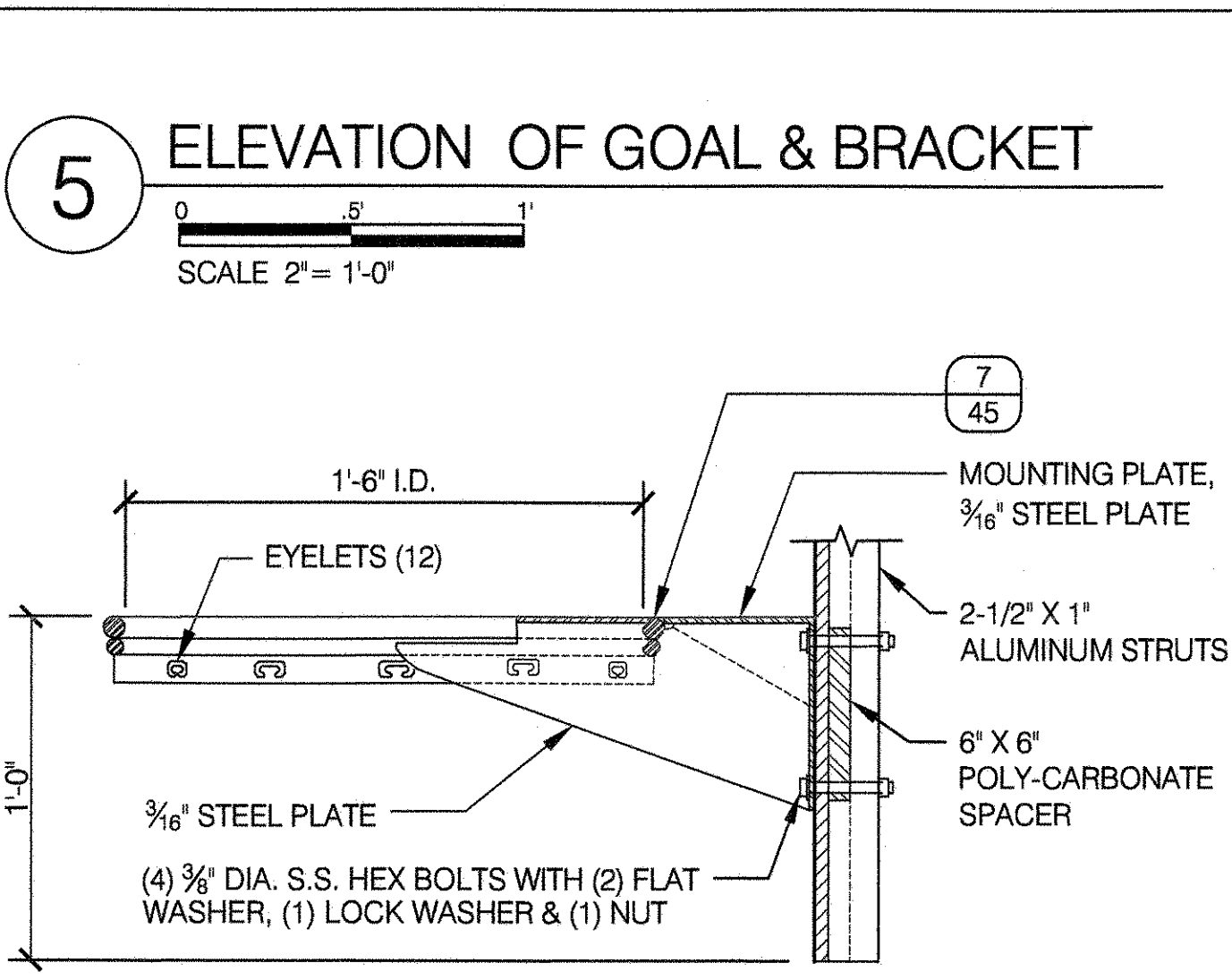
4 PLAN OF GOAL & BRACKET



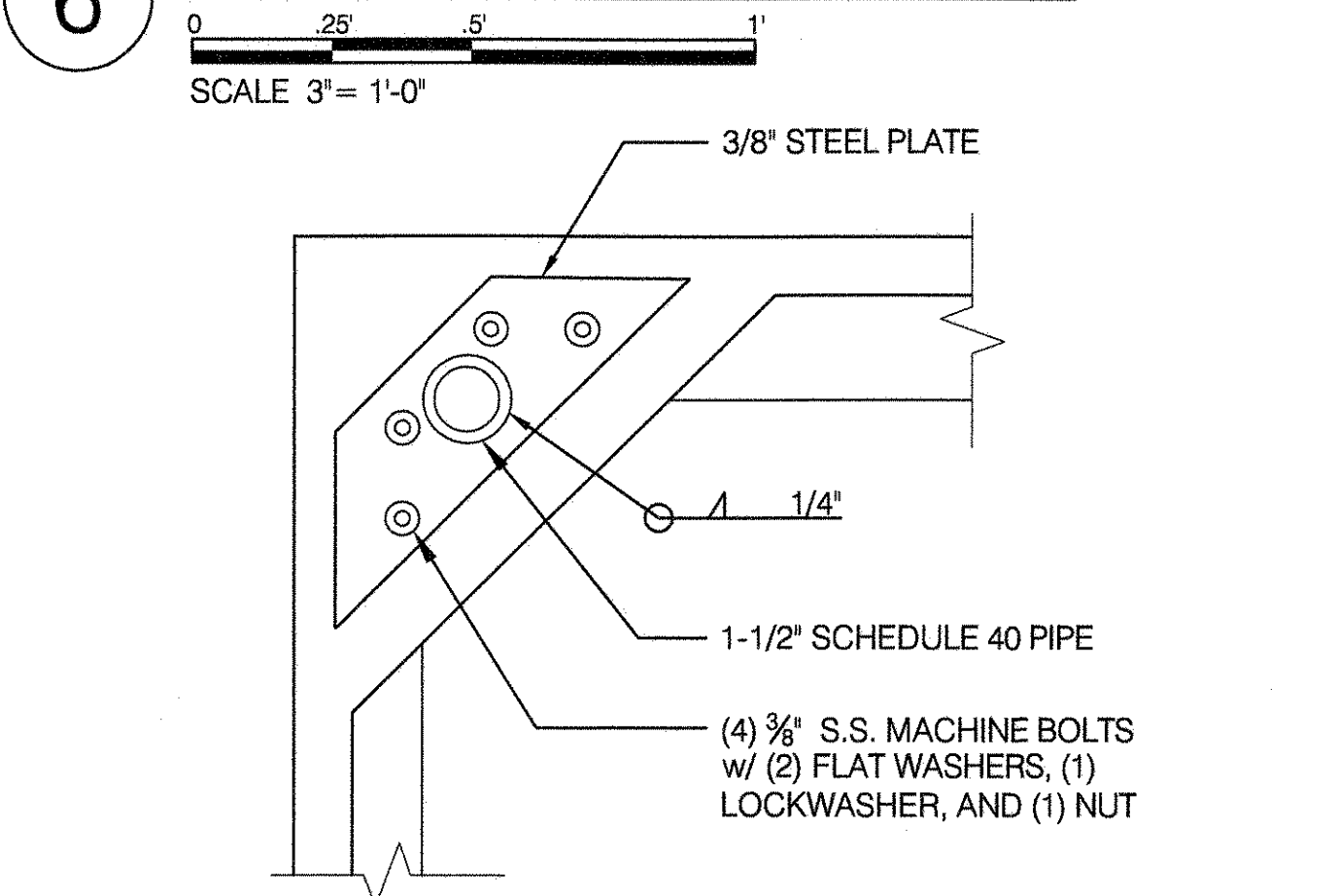
7 DETAIL OF RIM WELDING



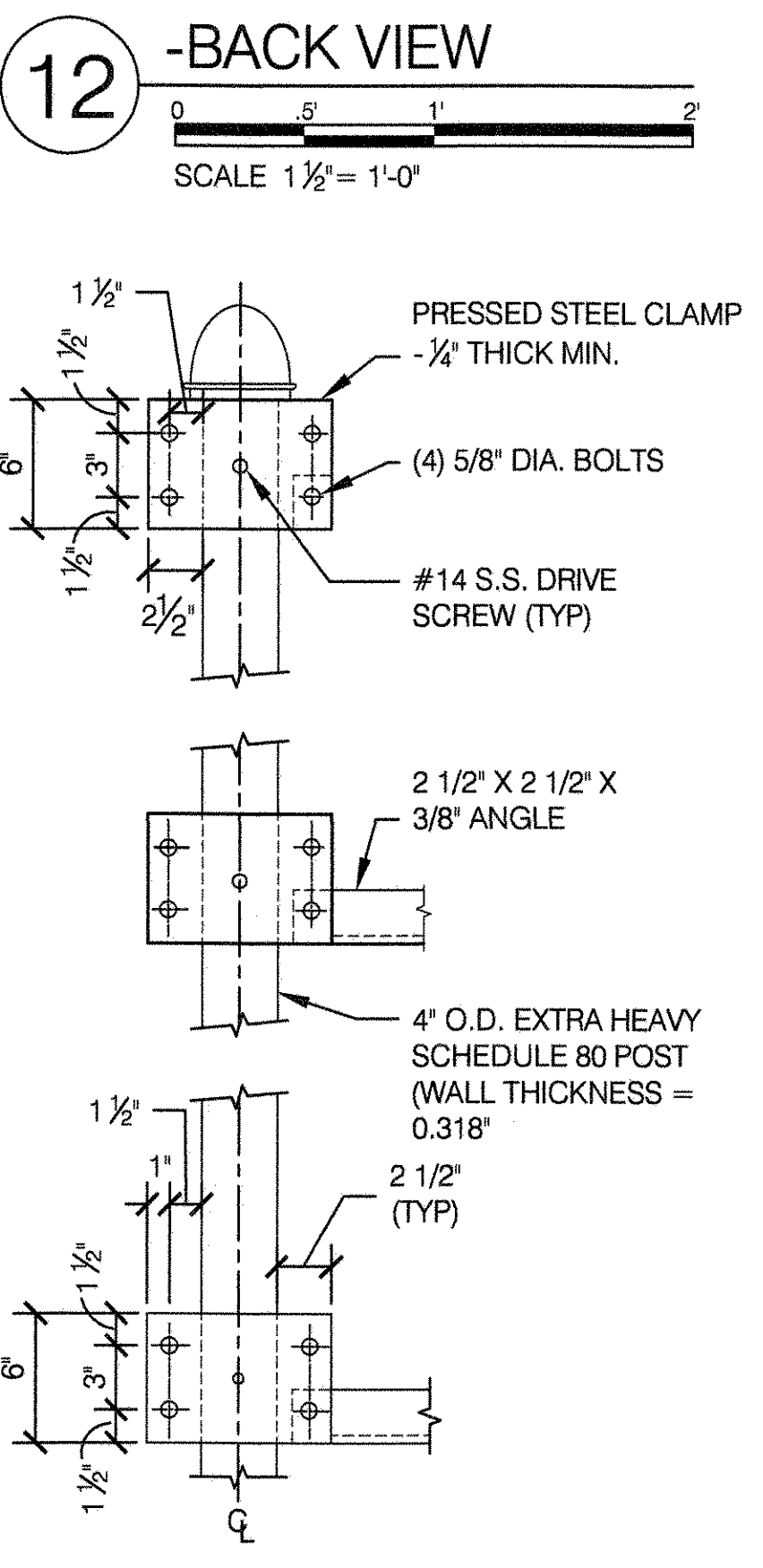
5 ELEVATION OF GOAL & BRACKET



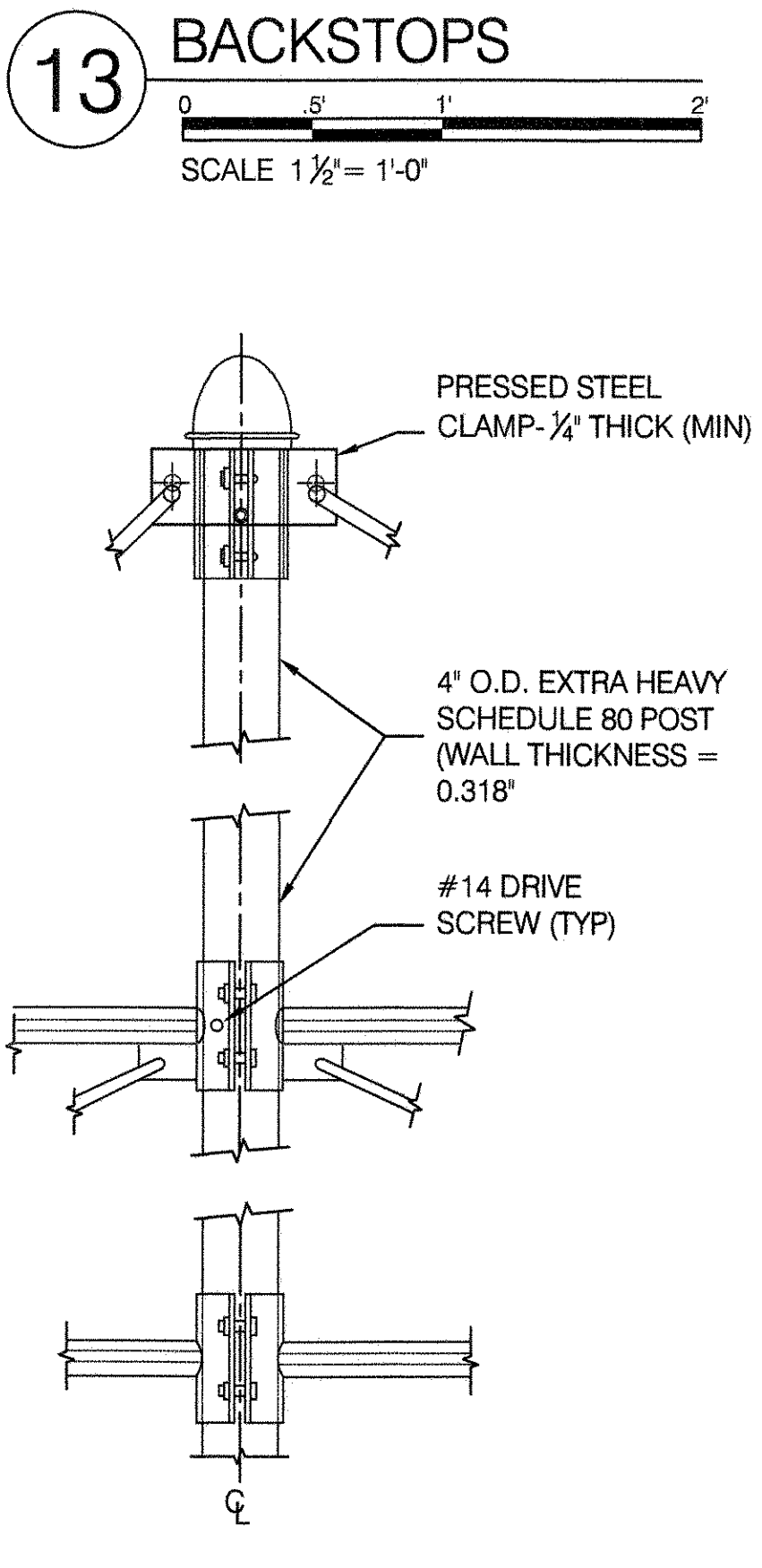
6 BACKBOARD CORNER ENLARGEMENT - REAR VIEW



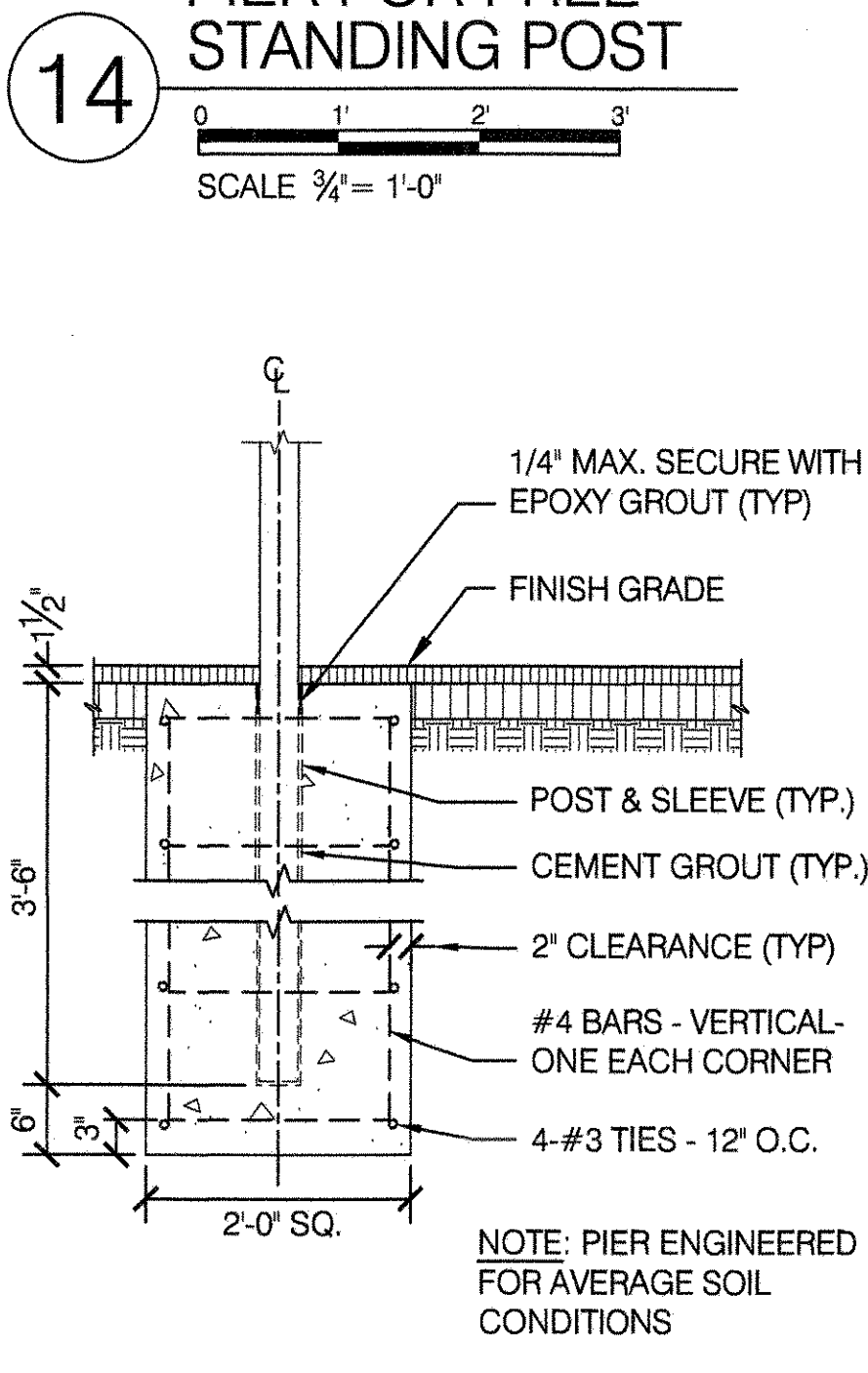
12 POST CONNECT - BACK VIEW



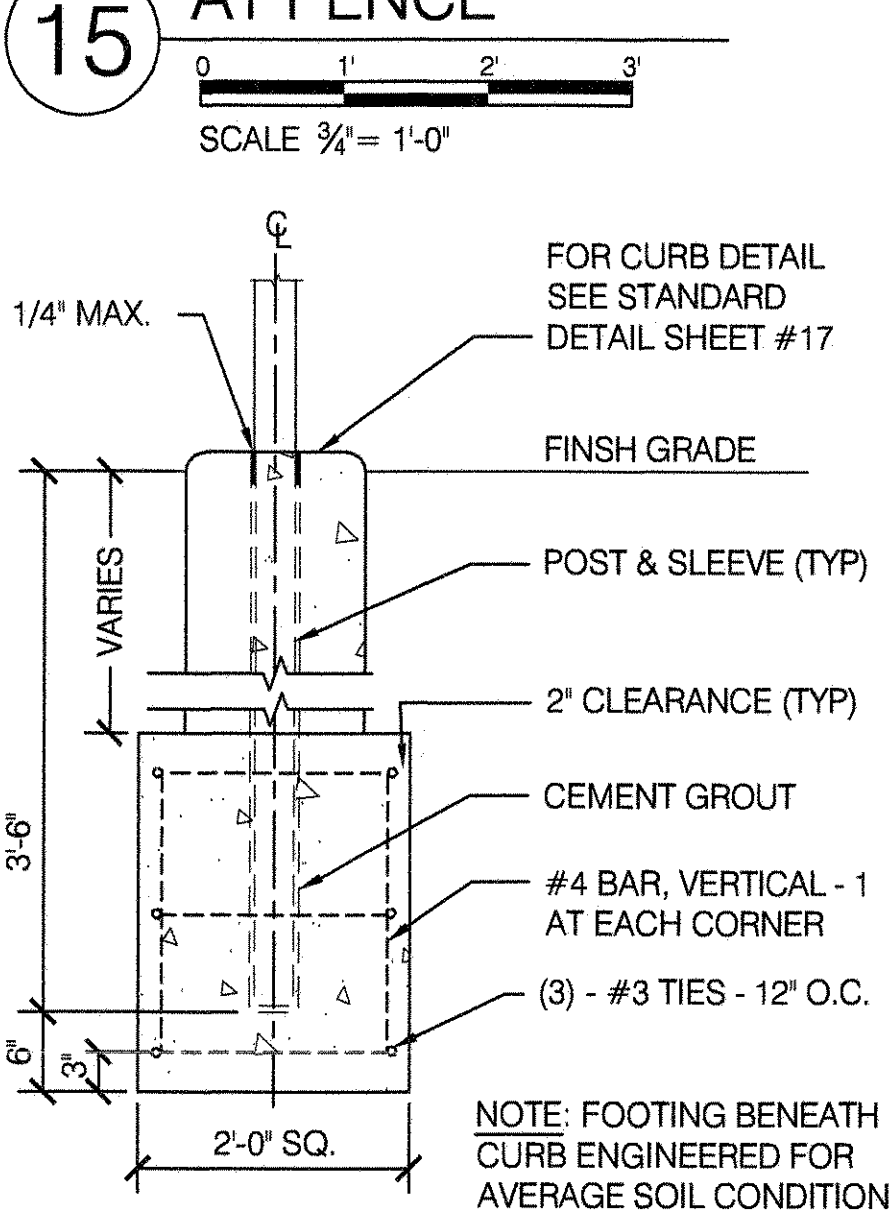
13 BACK-TO-BACK BACKSTOPS



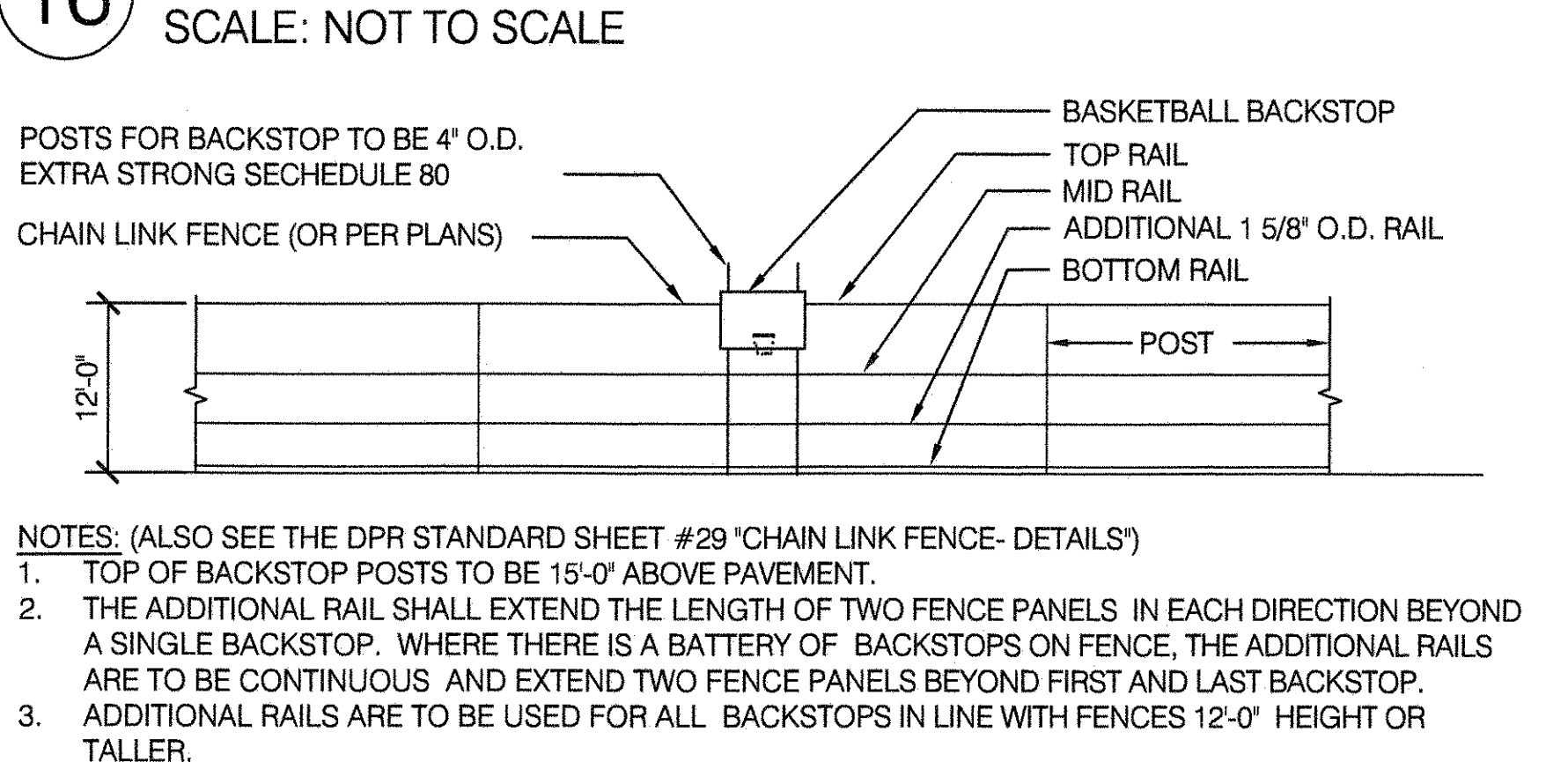
14 PIER FOR FREE STANDING POST



15 POST IN CURB AT FENCE



16 BACKSTOP ELEVATION IN LINE WITH FENCE

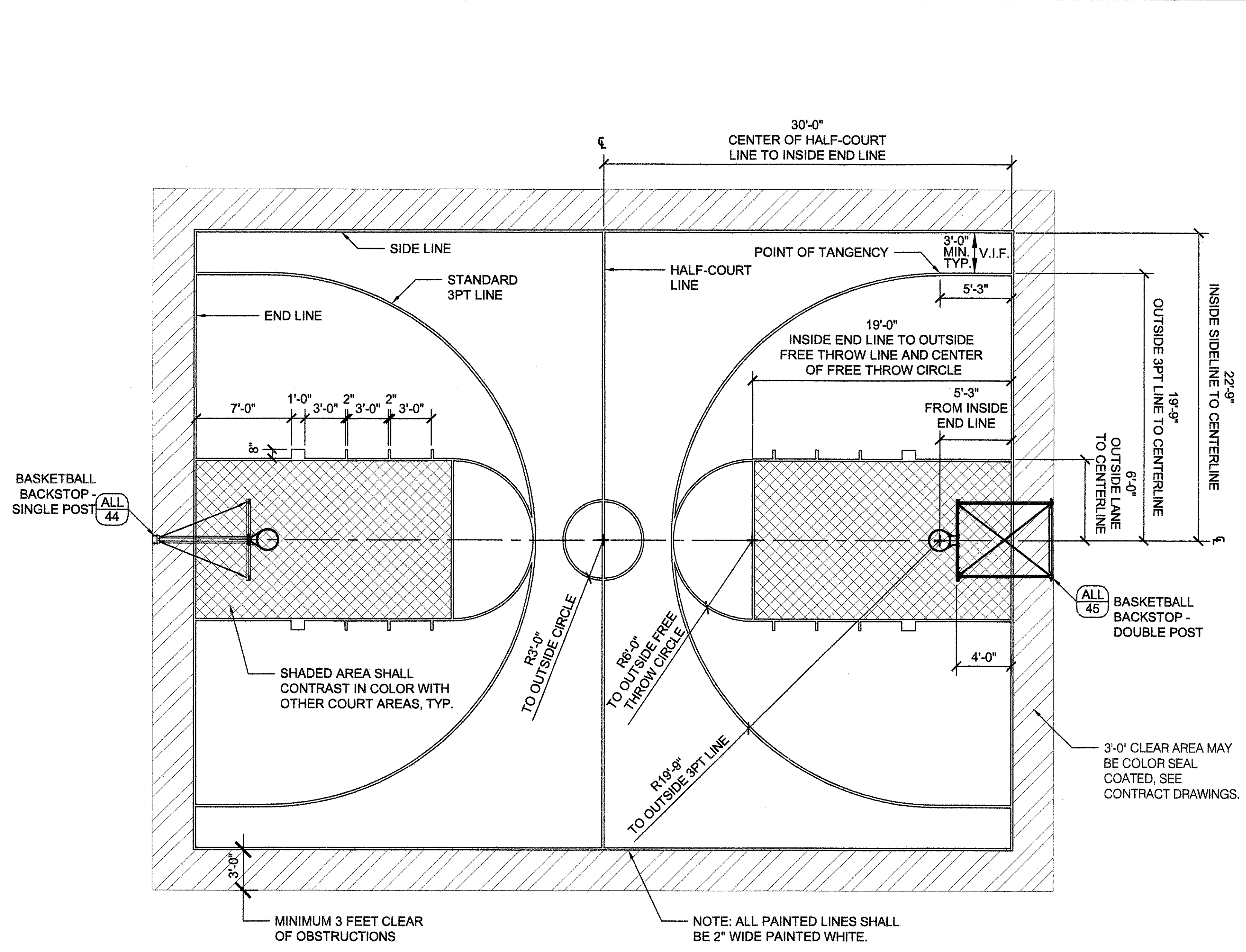


- NOTES:**
1. ALL PIPE MEASUREMENTS ARE OUTSIDE DIAMETER, FOR OTHER DIMENSIONS SEE ASTM A-53.
 2. POSTS FOR BASKETBALL BACKSTOP AND ALL BOLTS AND NUTS SHALL BE GALVANIZED STEEL;
 3. DRIVE SCREWS SHALL BE STAINLESS STEEL.
 4. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED STEEL; OUTRIGGERS SHALL BE GALVANIZED AFTER FABRICATION;
 5. ALL GALVANIZED STEEL COMPONENTS SHALL BE POWDERCOATED PER SPECIFICATION, EXCEPT BACKBOARD AND HARDWARE;
 6. ALL FASTENING SHALL BE COATED WITH HIGH LOCKING ADHESIVE IMMEDIATELY PRIOR TO TIGHTENING, SEE SPEC.
 7. FOR LAYOUT SEE STANDARD DETAIL "BASKETBALL COURT LAYOUTS".
 8. STANDARD ARC AND GAS WELDING IS SHOWN AS FOLLOWS:

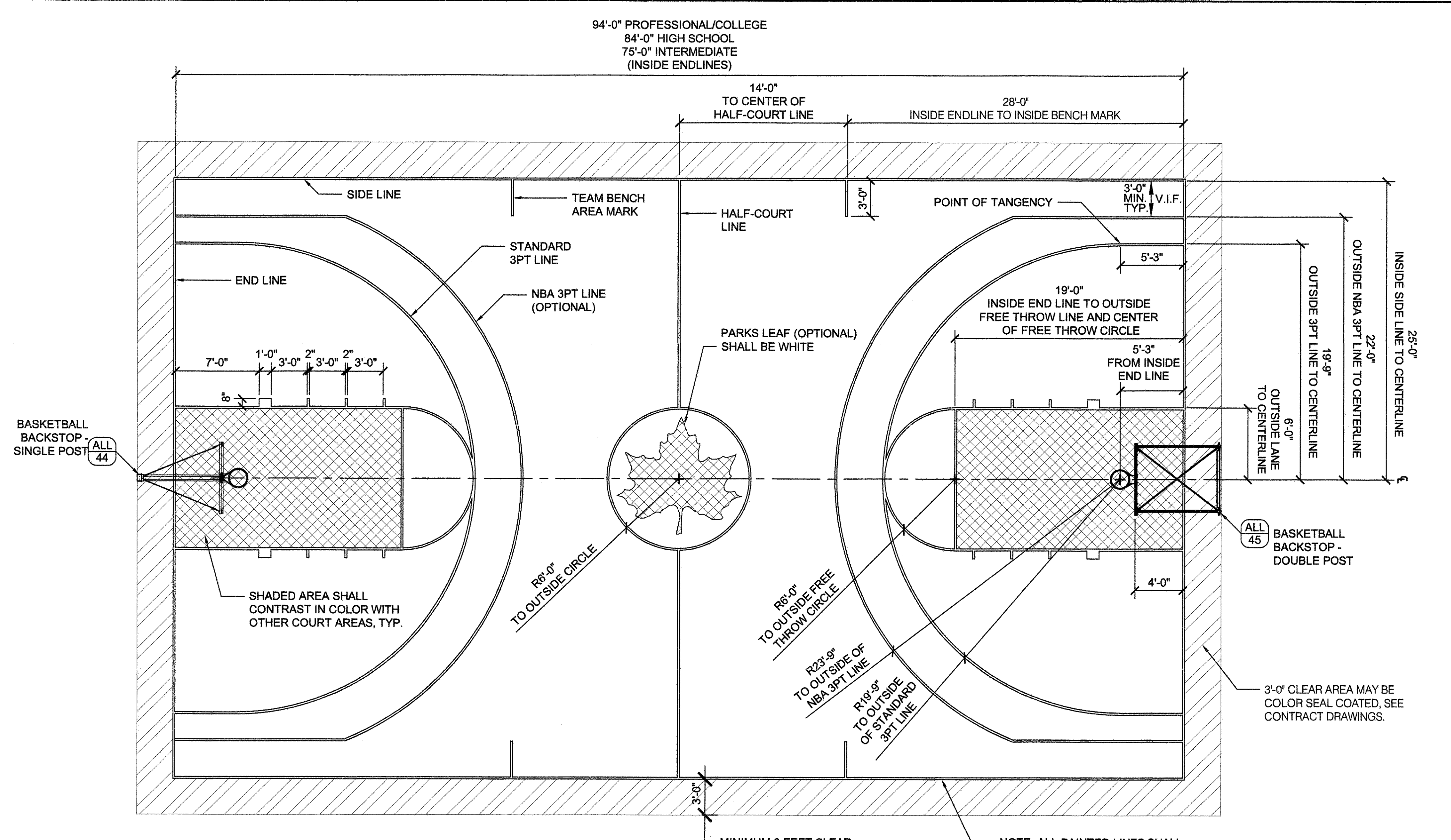
THE ADJACENT SYMBOL INDICATES A 1/4 INCH FILLET WELD. THE NUMBER (1/4") EQUALS THE LENGTH OF SIDE AND FACE OF WELD. THIS Δ SYMBOL MEANS FILLET WELD. THE WELD IS ALSO ASSUMED TO HAVE 45-DEGREE ANGLE UNLESS OTHERWISE SPECIFIED. CIRCLE MEANS "WELD ALL AROUND".

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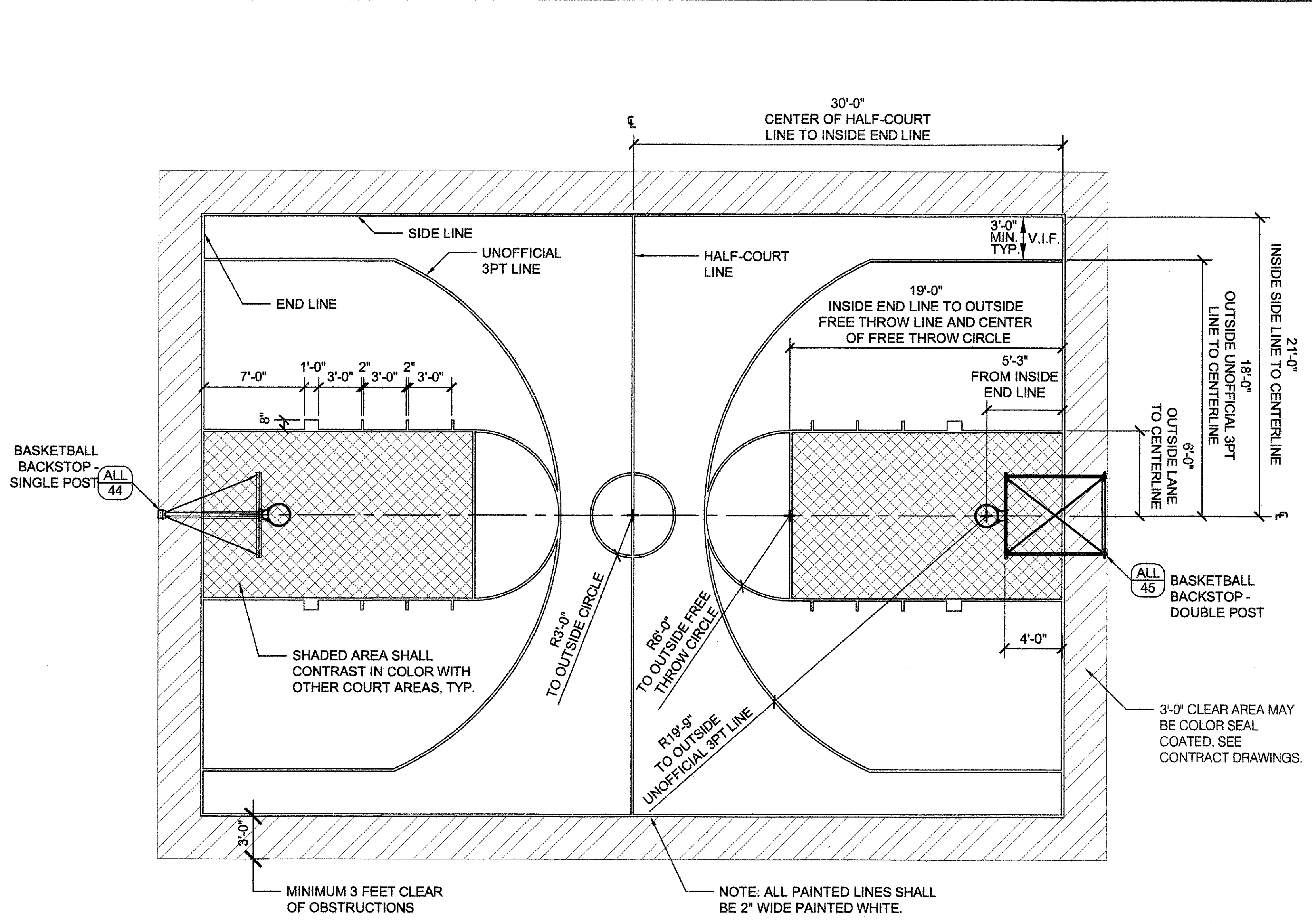
COPYRIGHT © 2020 NYC PARKS & RECREATION	
DRAWING TITLE BASKETBALL BACKSTOP - DOUBLE POST	
DRAWN BY K. MOULTHROP	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA/186-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 45
DATE 09-01-2020	SCALE AS SHOWN



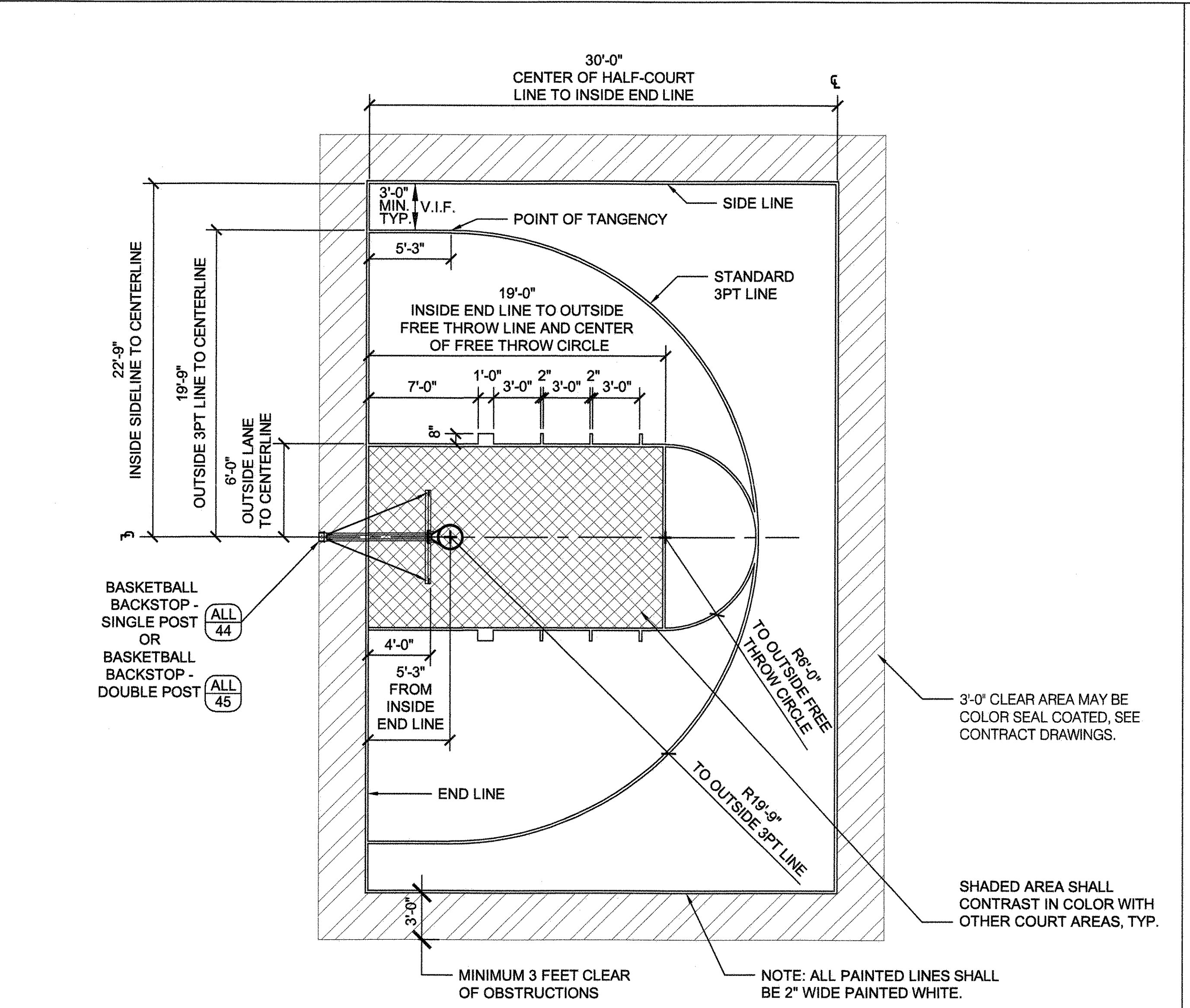
1 LAYOUT OF JUNIOR BASKETBALL COURT
SCALE 3/16" = 1'-0"



2 LAYOUT OF FULL WIDTH BASKETBALL COURT
SCALE 3/16" = 1'-0"



3 LAYOUT OF UNOFFICIAL BASKETBALL COURT FOR SMALL SPACES
SCALE 3/16" = 1'-0"



4 LAYOUT OF BASKETBALL HALF-COURT
SCALE 3/16" = 1'-0"

OVERALL BASKETBALL COURT LAYOUT DIMENSIONS (LENGTH x WIDTH)

1. PROFESSIONAL/COLLEGE	94'-0" x 50'-0"
2. HIGH SCHOOL	84'-0" x 50'-0"
3. INTERMEDIATE	75'-0" x 50'-0"
4. JUNIOR	60'-0" x 45'-6"
5. UNOFFICIAL	60'-0" x 42'-0"
6. HALF-COURT	30'-0" x 45'-6"

NOTES:

- SEE CONTRACT DRAWINGS FOR COLOR AND AREAS TO BE SEAL COATED.
- ALL PAINTED LINES SHALL BE WHITE AND 2" WIDE, UNLESS OTHERWISE NOTED.
- BASKETBALL BACKSTOPS MAY BE SINGLE OR DOUBLE POSTS, SEE CONTRACT DRAWINGS FOR TYPE.
- COURT SURFACE RECOMMENDED GRADE RANGE: 0.5% - 1.5%
- NBA 3PT LINE IS OPTIONAL FOR 50'-0" WIDE COURTS, SEE CONTRACT DRAWINGS.

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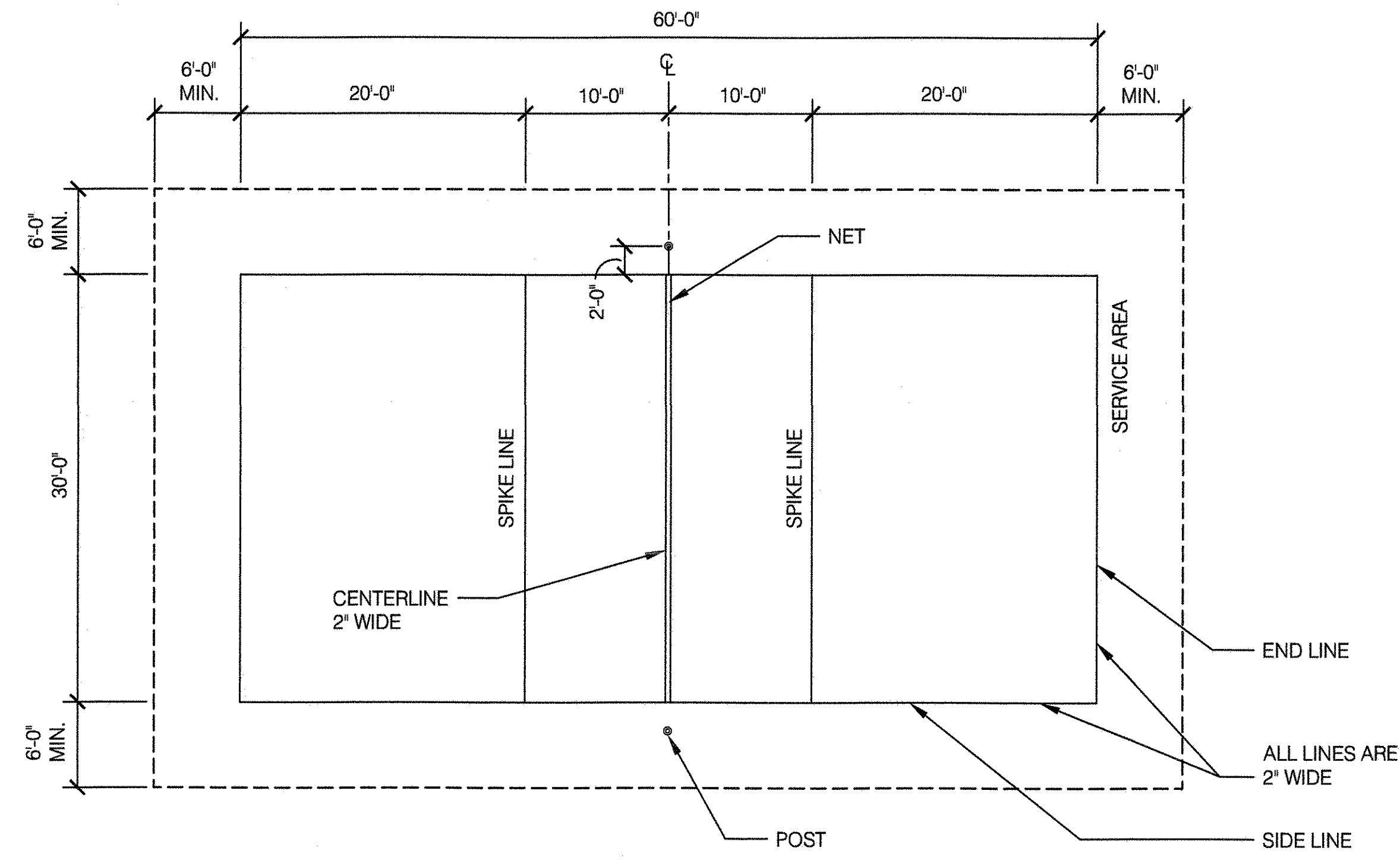
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DRAWING TITLE
BASKETBALL COURT LAYOUTS

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APPROVED BY NANCY PRINCE, RLA	STANDARD D.P.R. DETAIL TYLA/186-R10
APPROVED BY DIRECTOR 091042	SHEET NO. 45A
DATE 09-01-2020	SCALE AS SHOWN

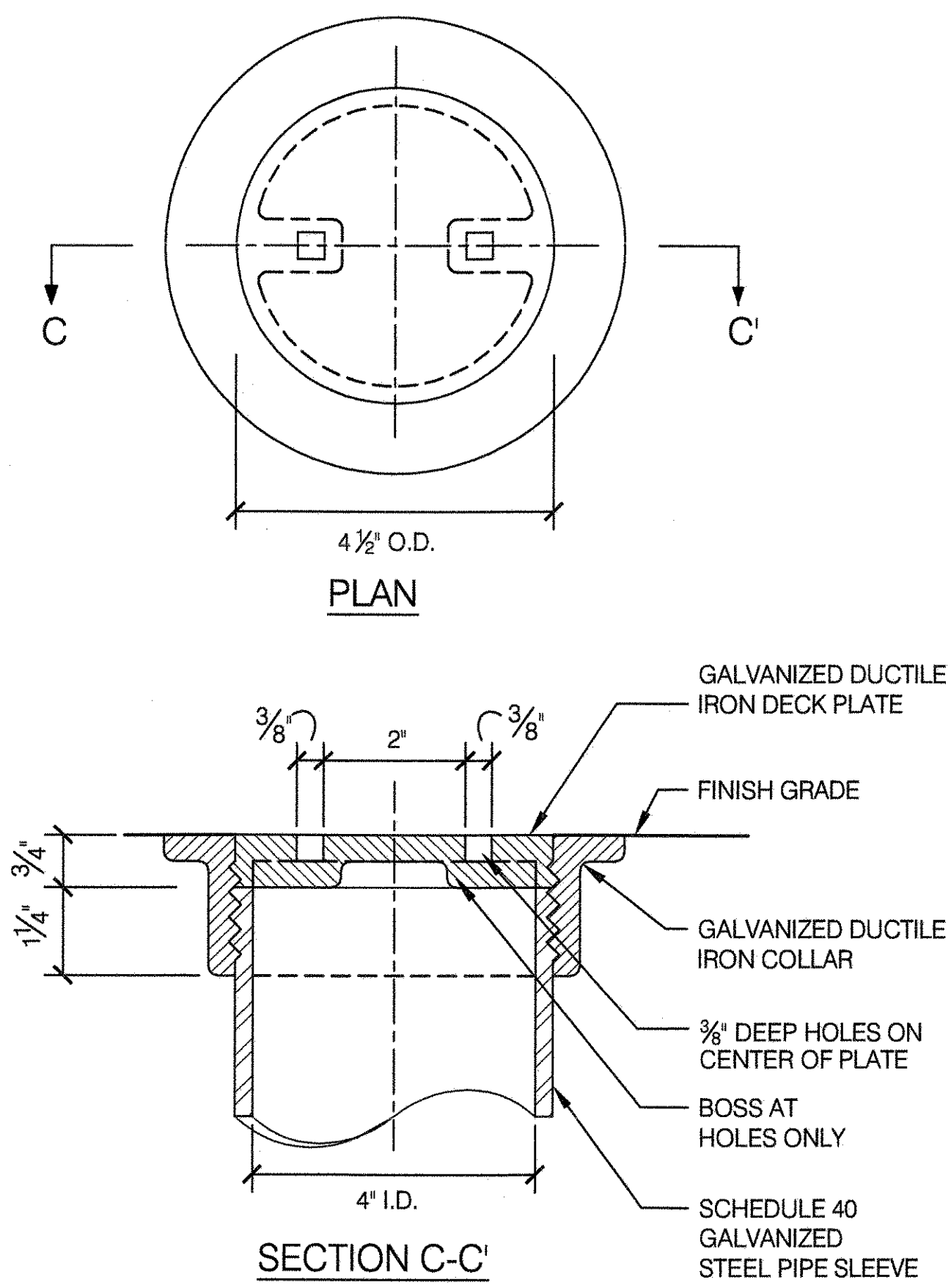
1 VOLLEYBALL COURT - PLAN

SCALE 1/8" = 1'-0"



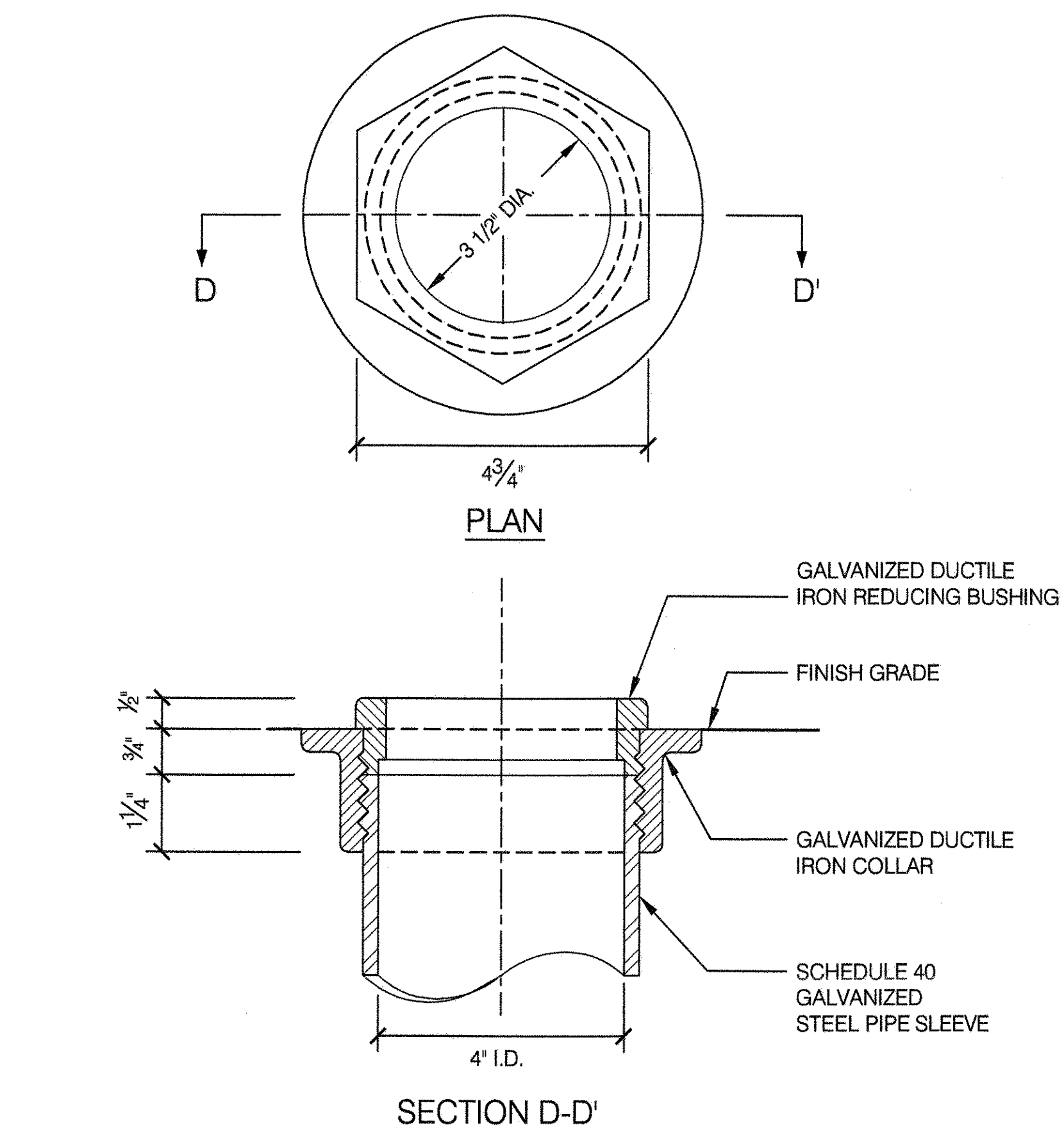
3 DECK PLATE

SCALE 6" = 1'-0"



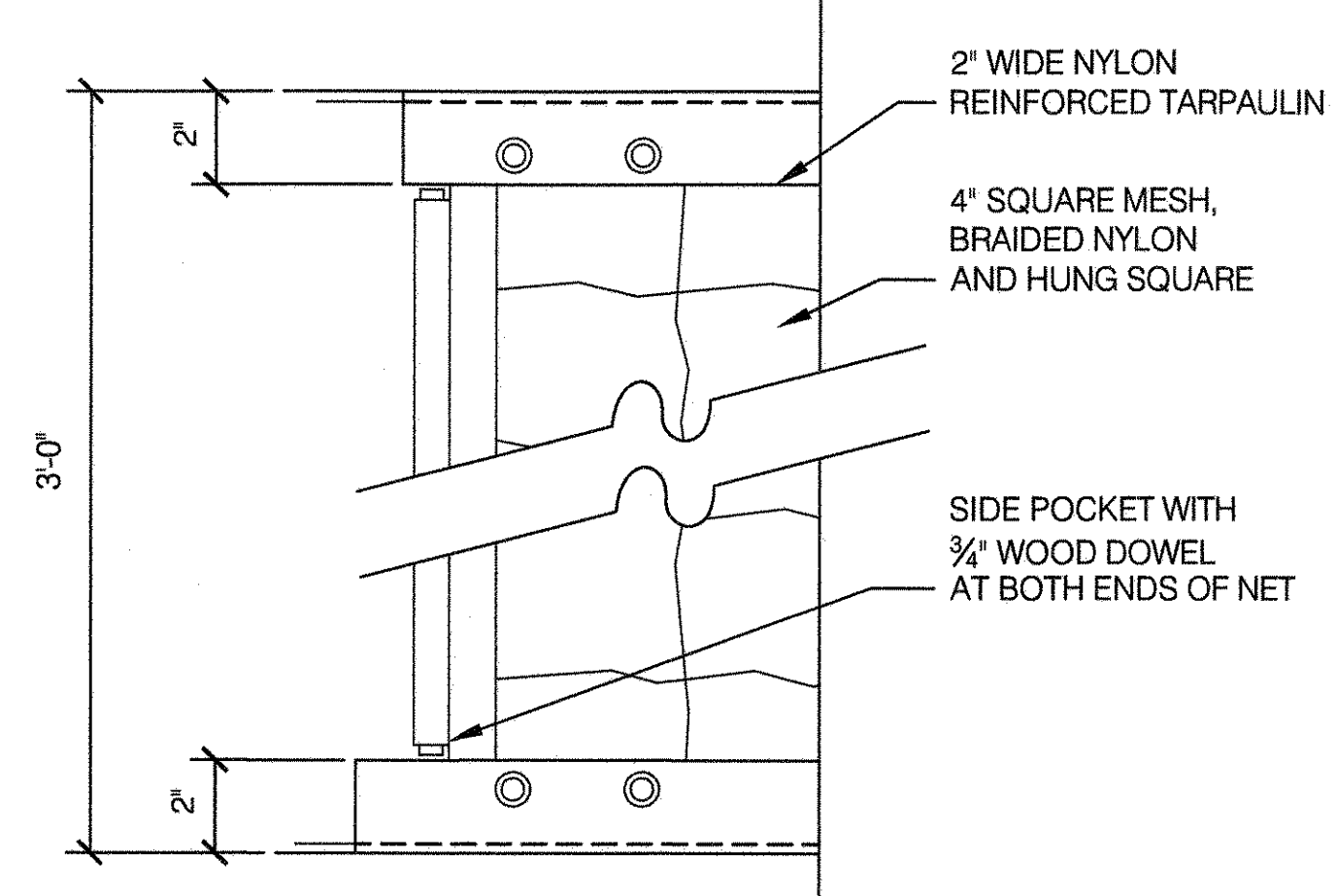
4 REDUCING BUSHING

SCALE 6" = 1'-0"



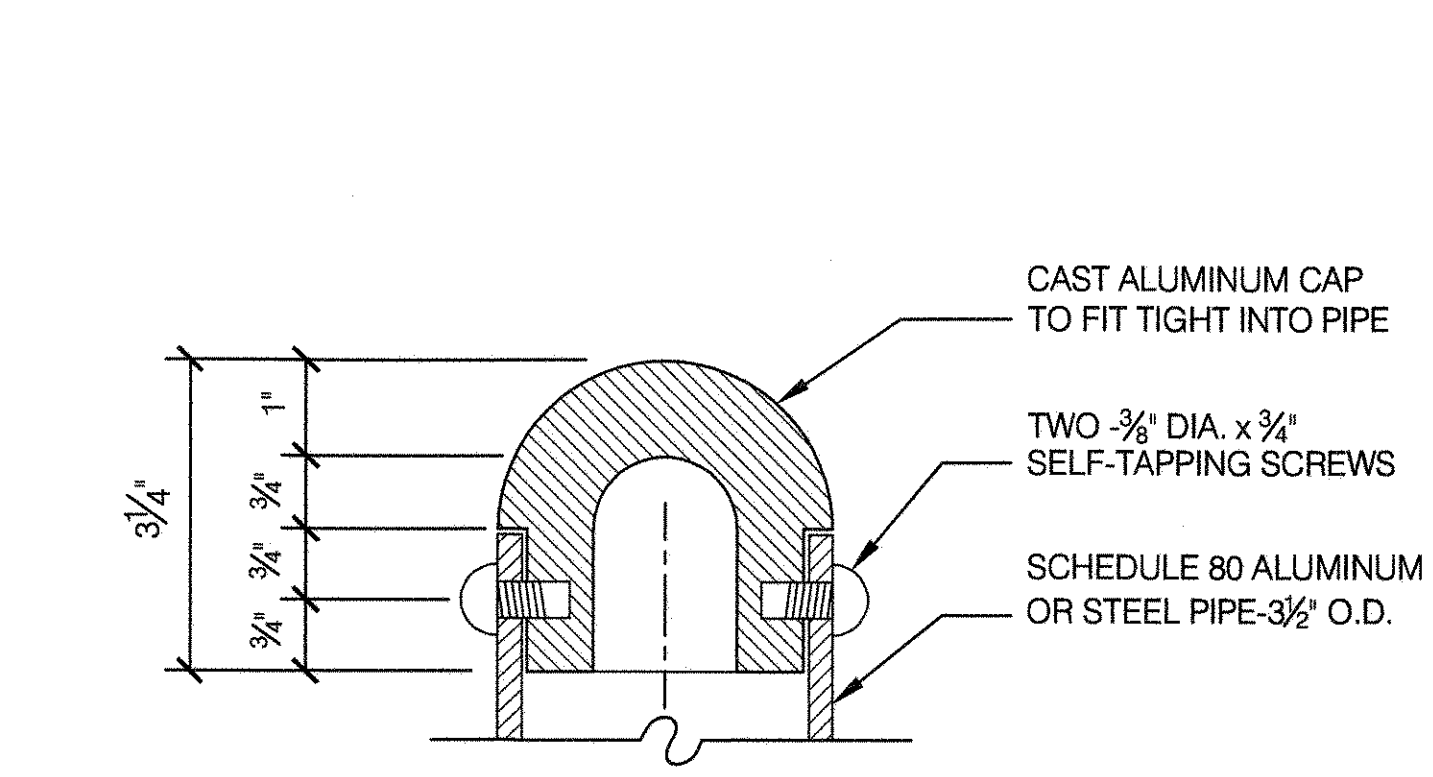
5 NET

SCALE 3" = 1'-0"



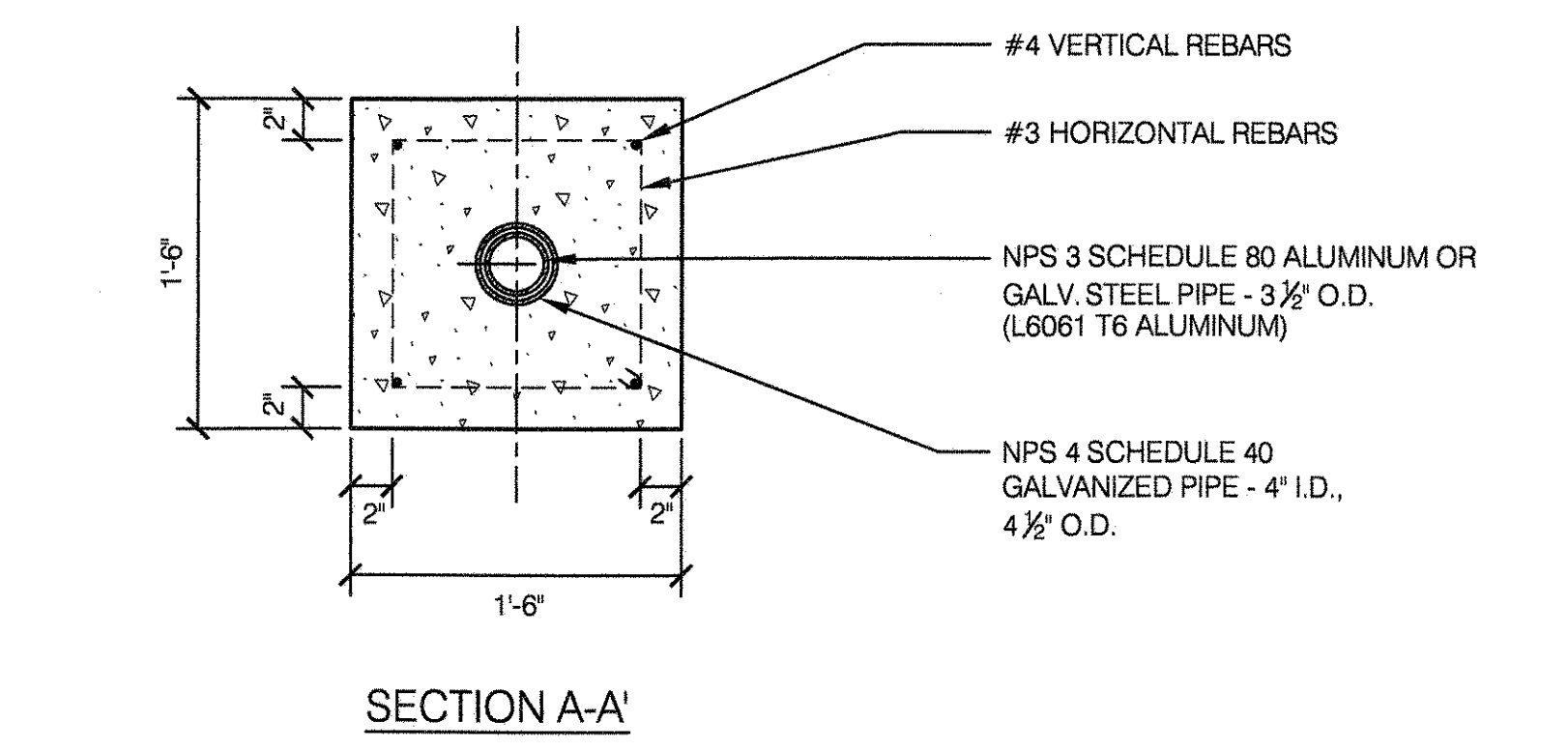
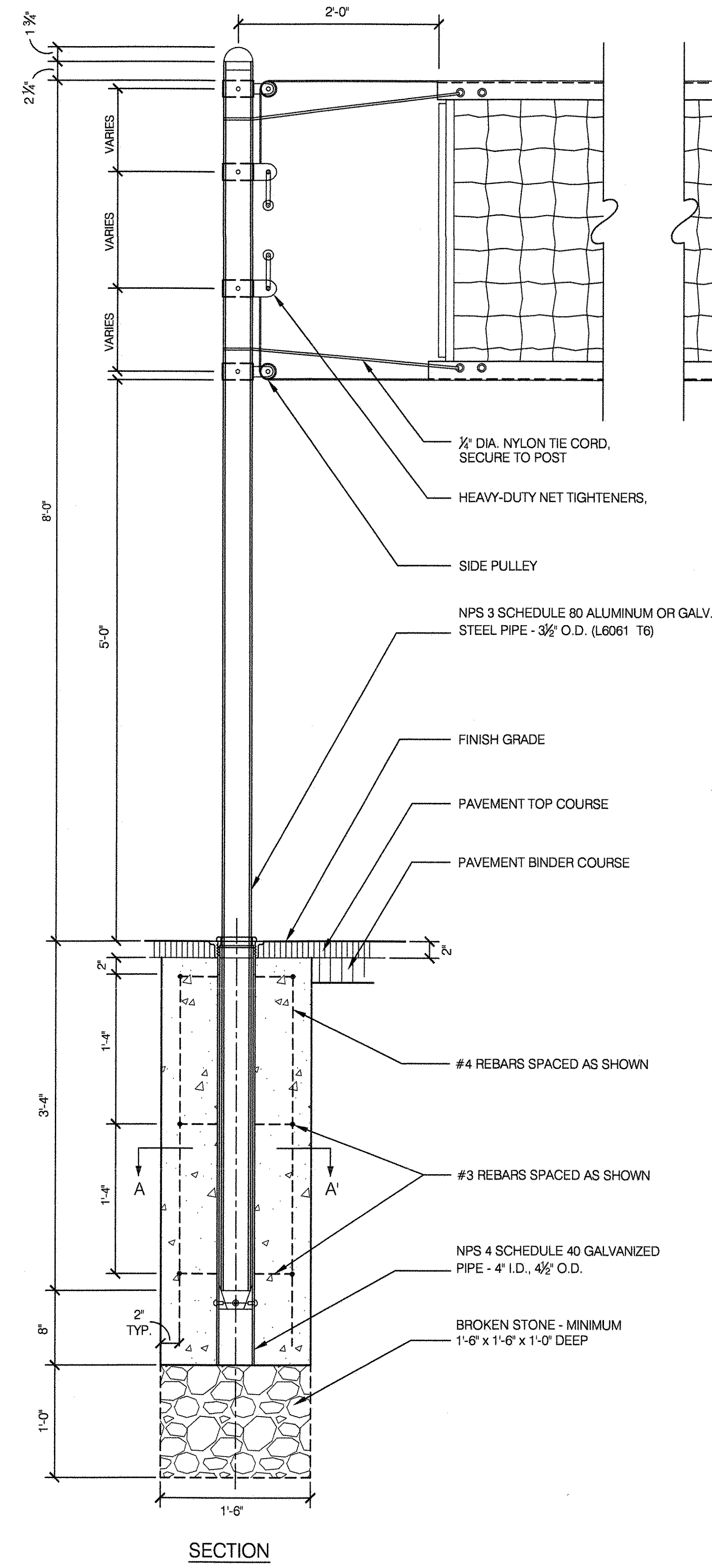
6 POST CAP

SCALE 6" = 1'-0"



2 VOLLEYBALL NET & POST

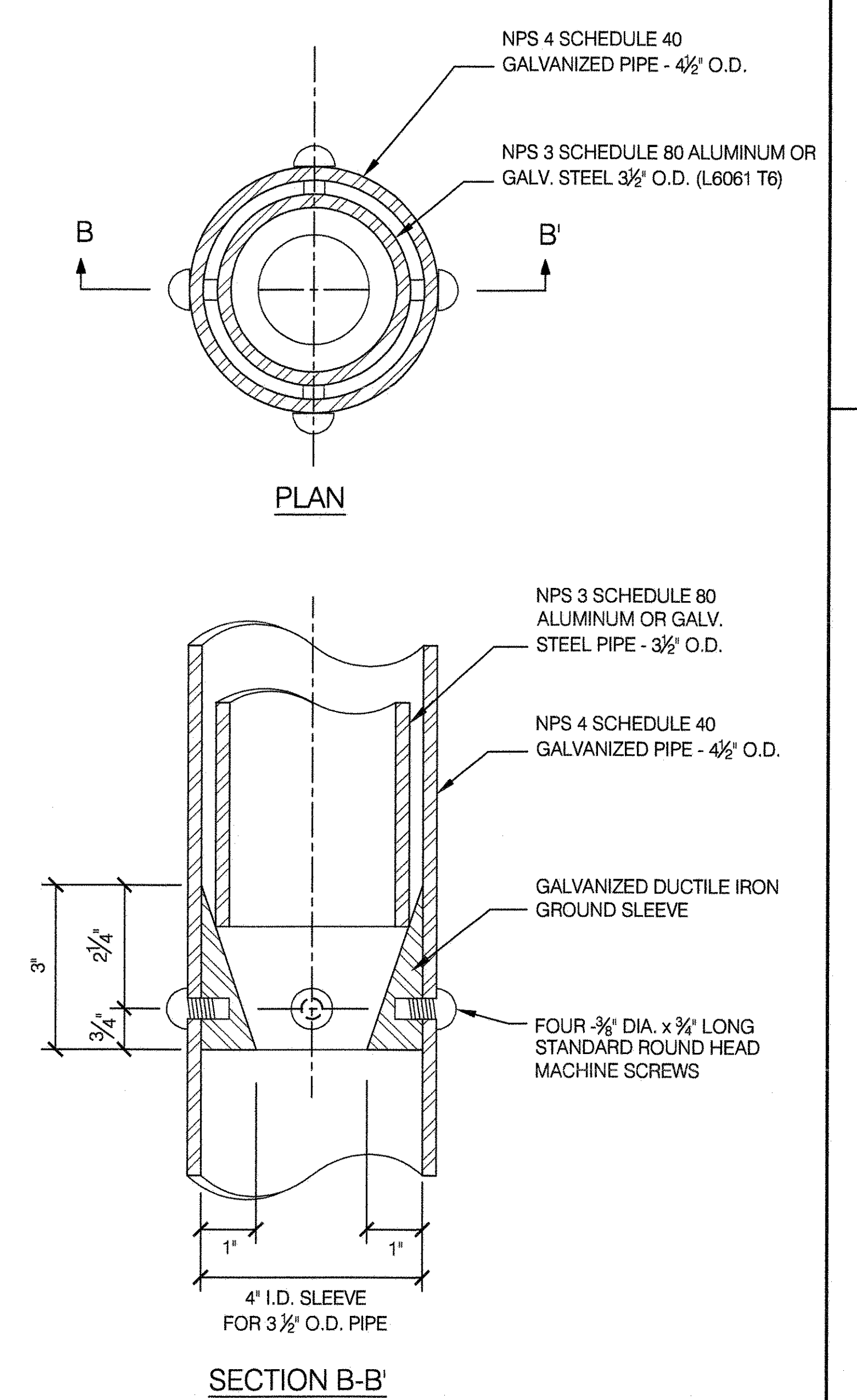
SCALE 1 1/2" = 1'-0"



NOTE:
 TAMP BACKFILL SOLIDLY AROUND CONCRETE FOOTING

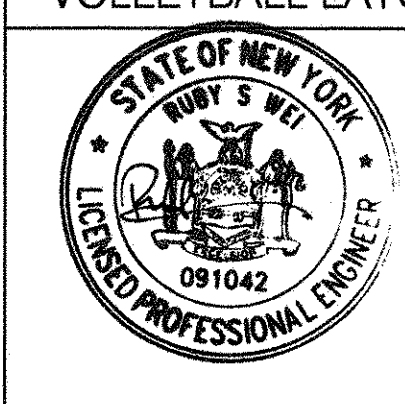
7 TAPERED RING

SCALE 6" = 1'-0"



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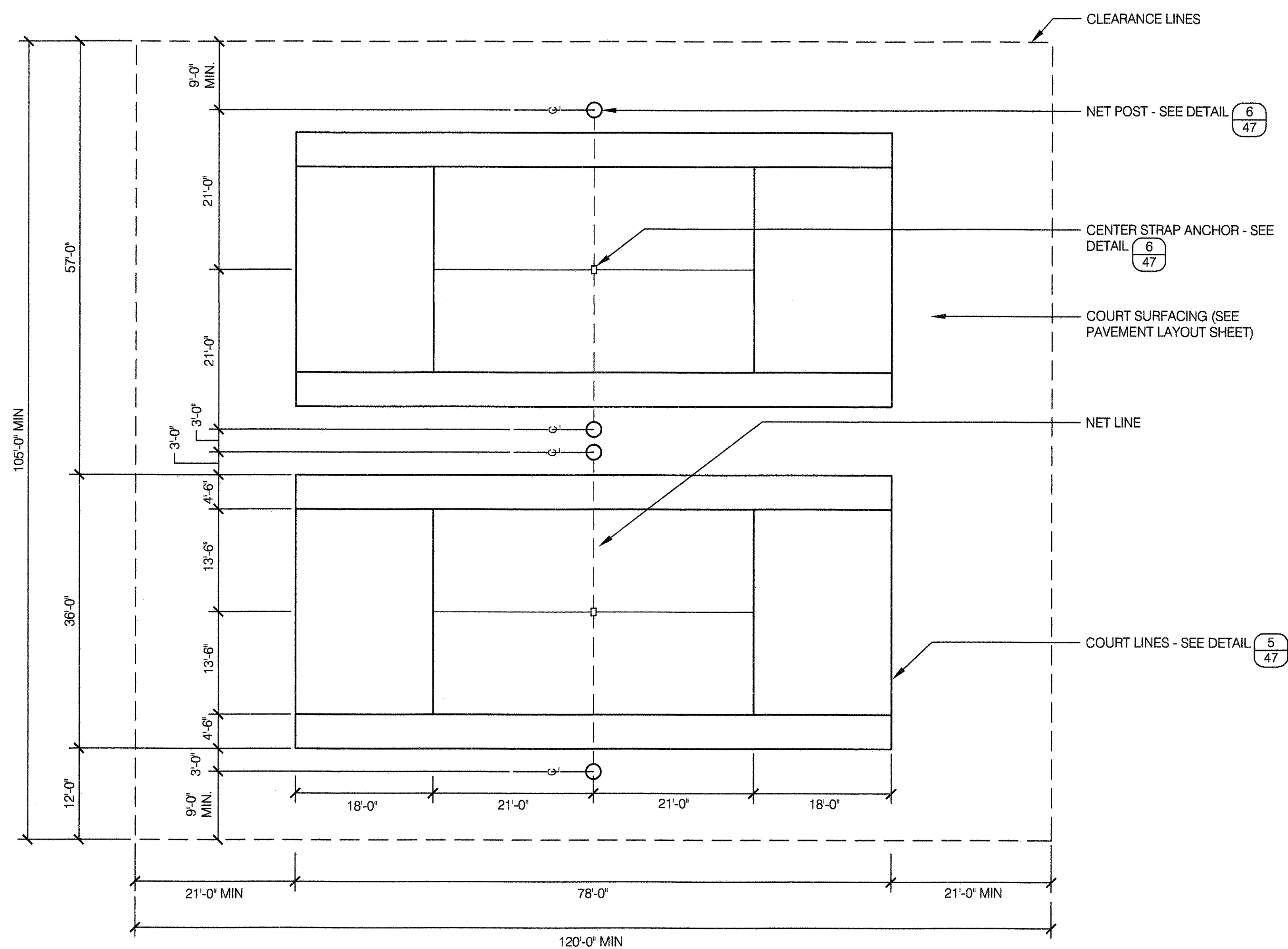
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 DRAWING TITLE
 VOLLEYBALL LAYOUT & DETAILS



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APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 46
DATE 09-01-2020	SCALE AS SHOWN

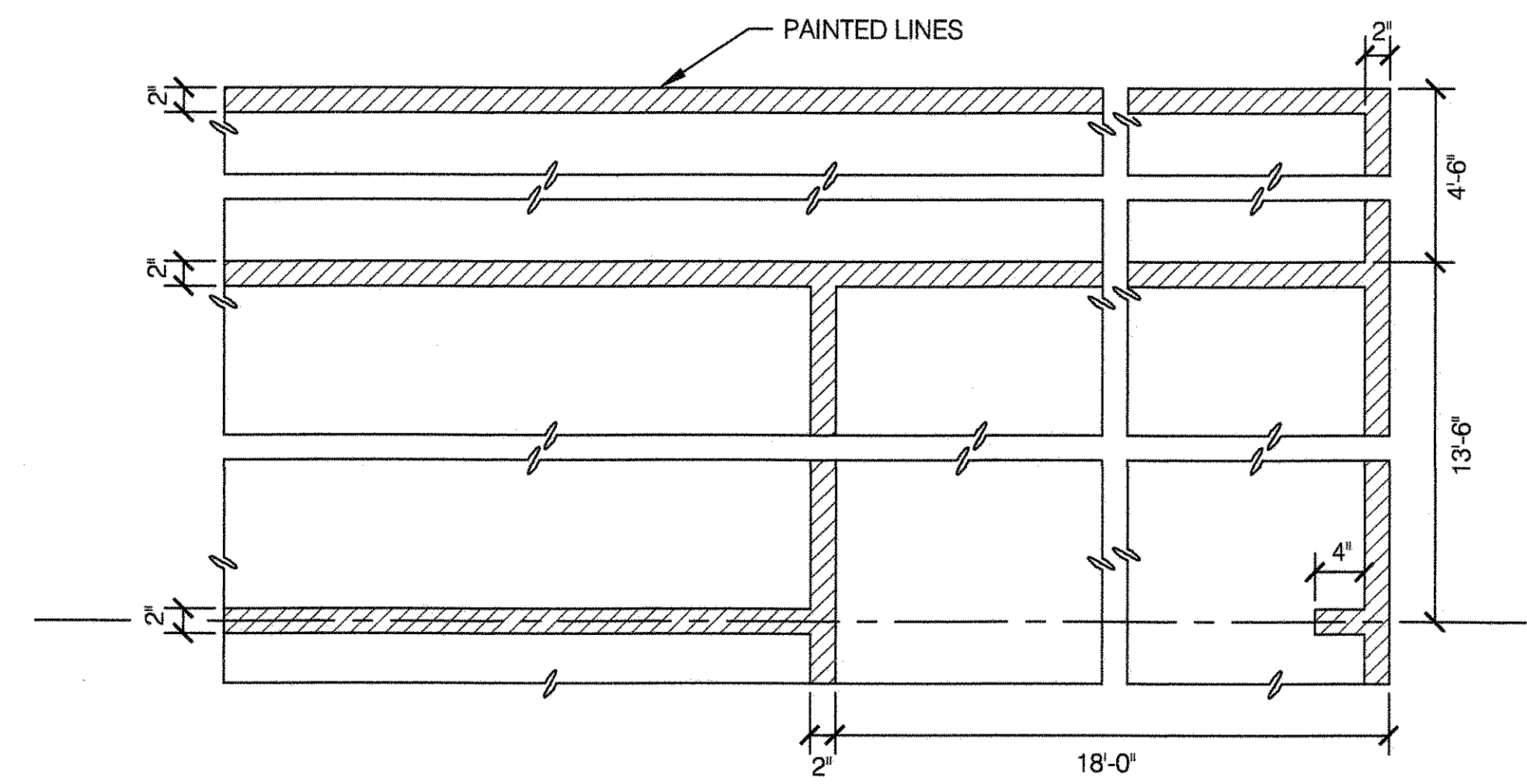
1 PLAN - BATTERY OF TENNIS COURTS

SCALE 1" = 10'-0"



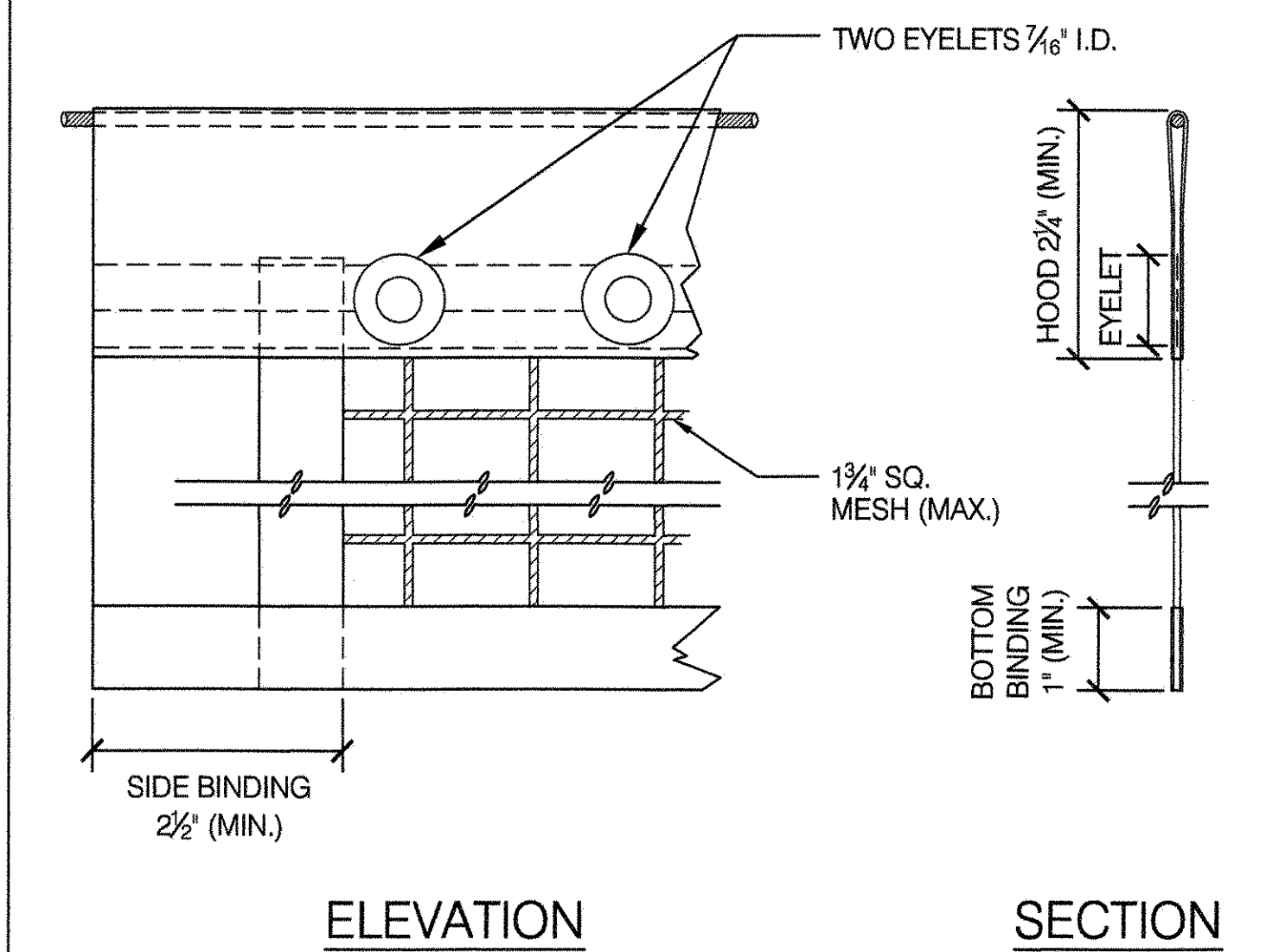
5 DIMENSIONING OF COURT LINES

SCALE 1" = 1'-0"



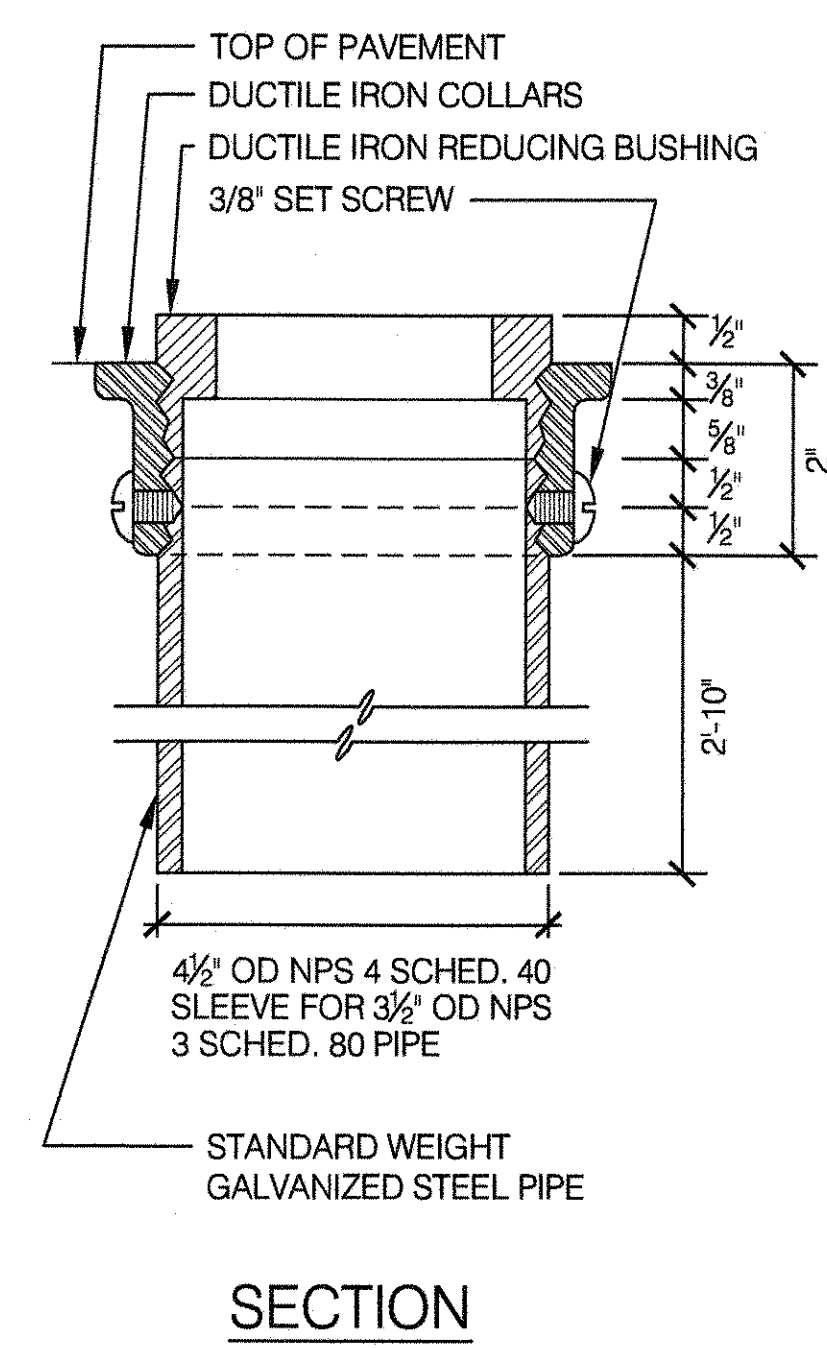
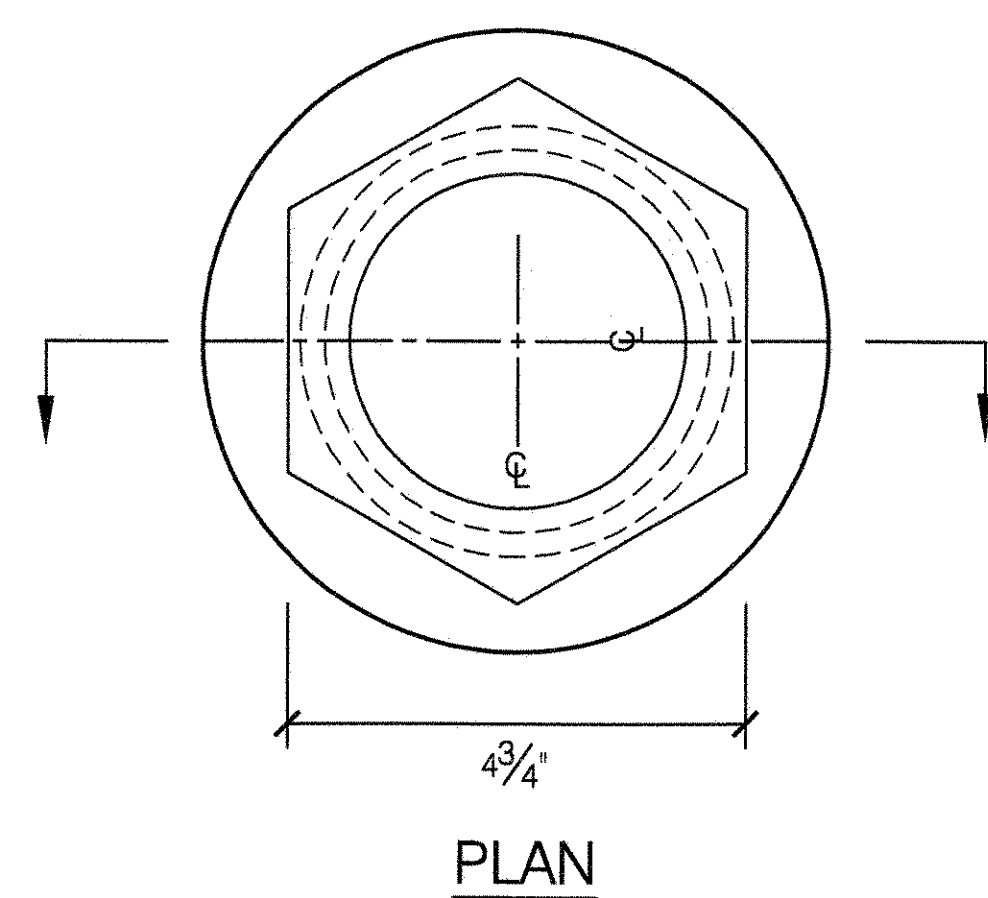
7 DETAIL OF HOOD AND NET

SCALE 6" = 1'-0"



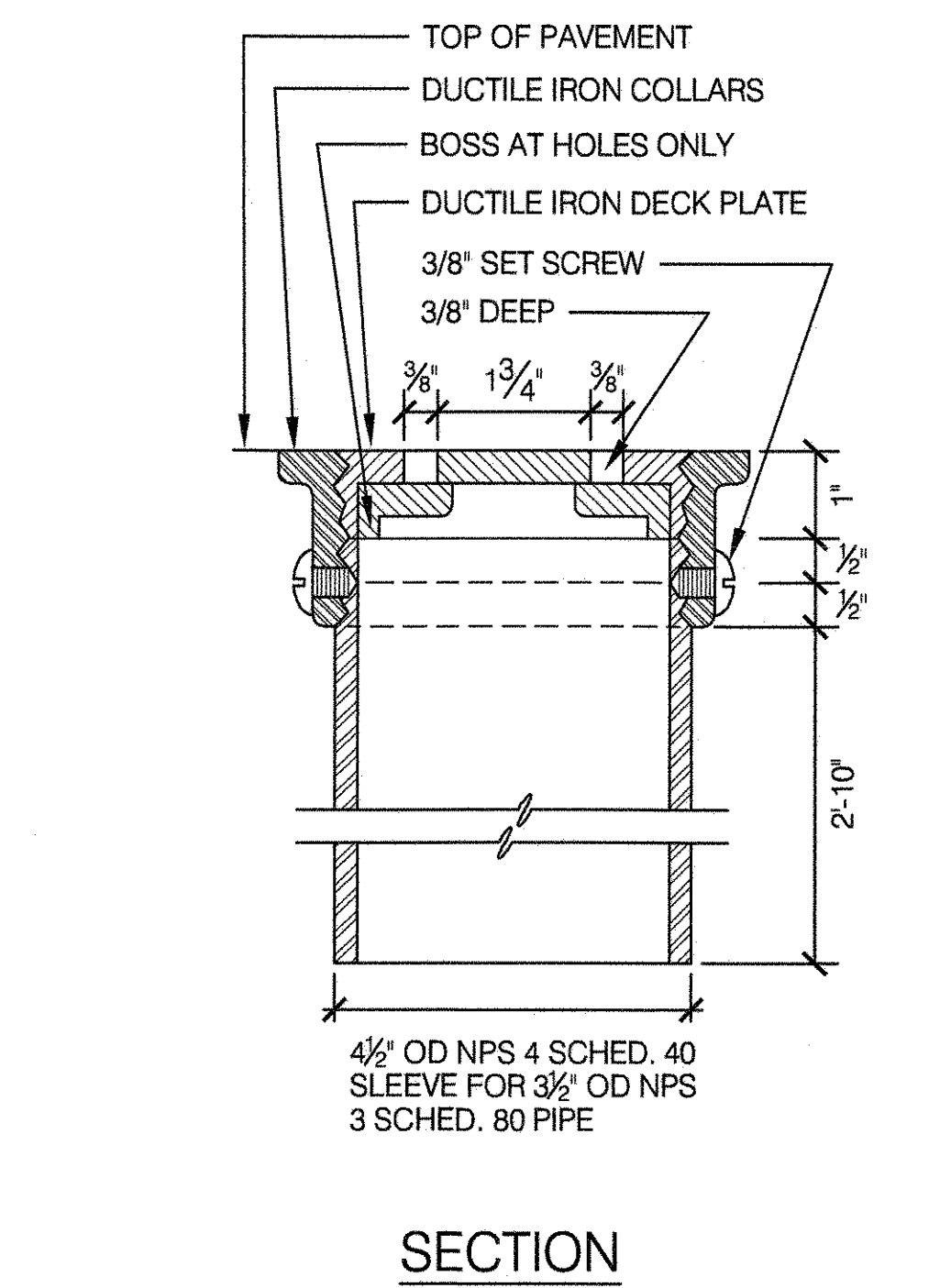
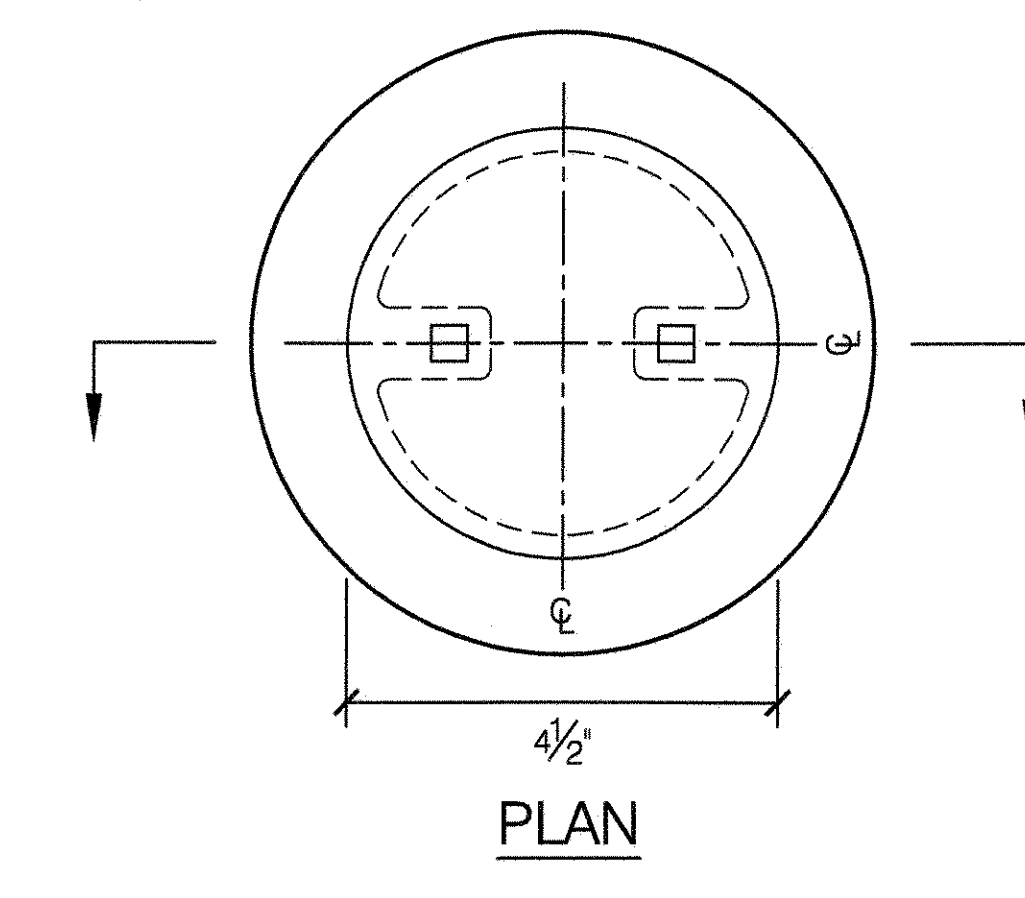
2 REDUCING BUSHING

SCALE 6" = 1'-0"



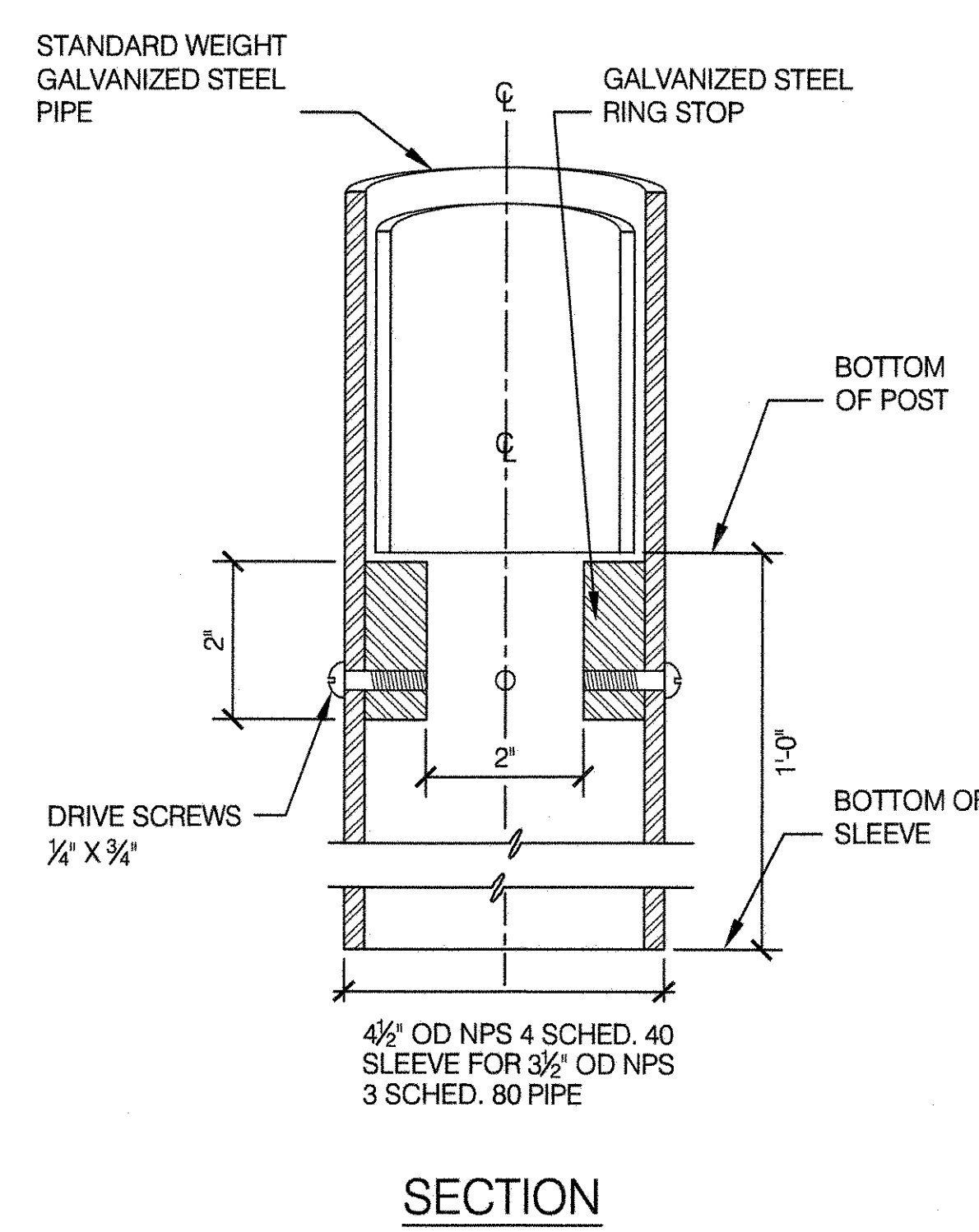
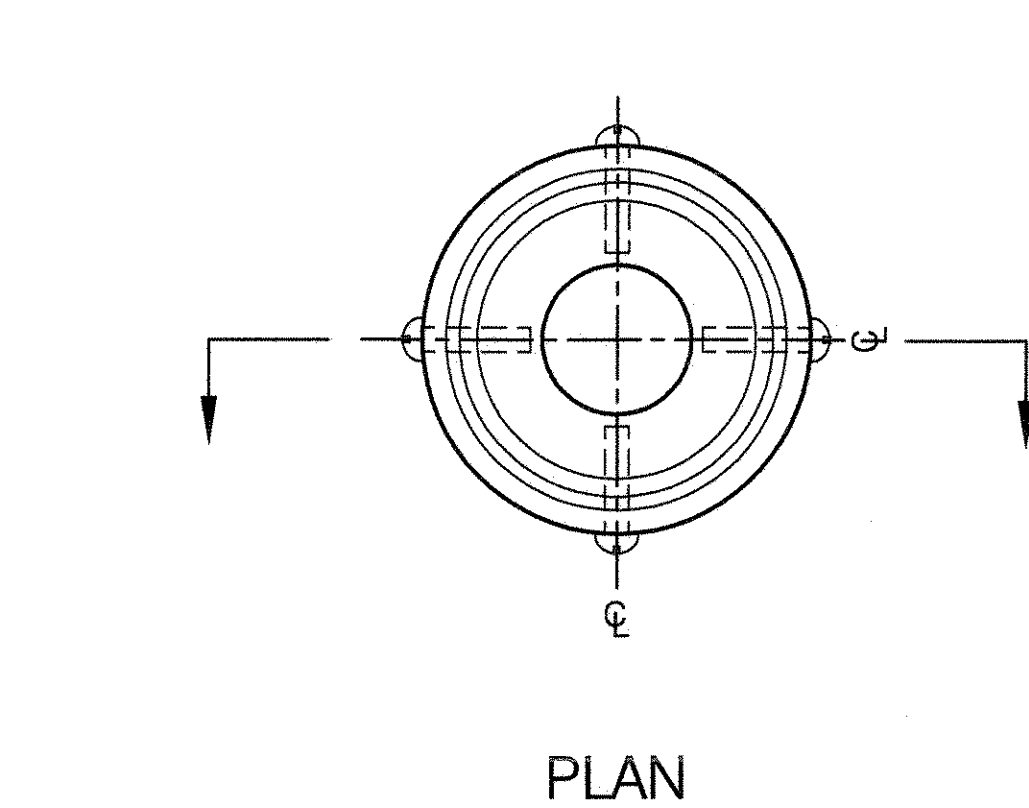
3 DECK PLATE

SCALE 6" = 1'-0"



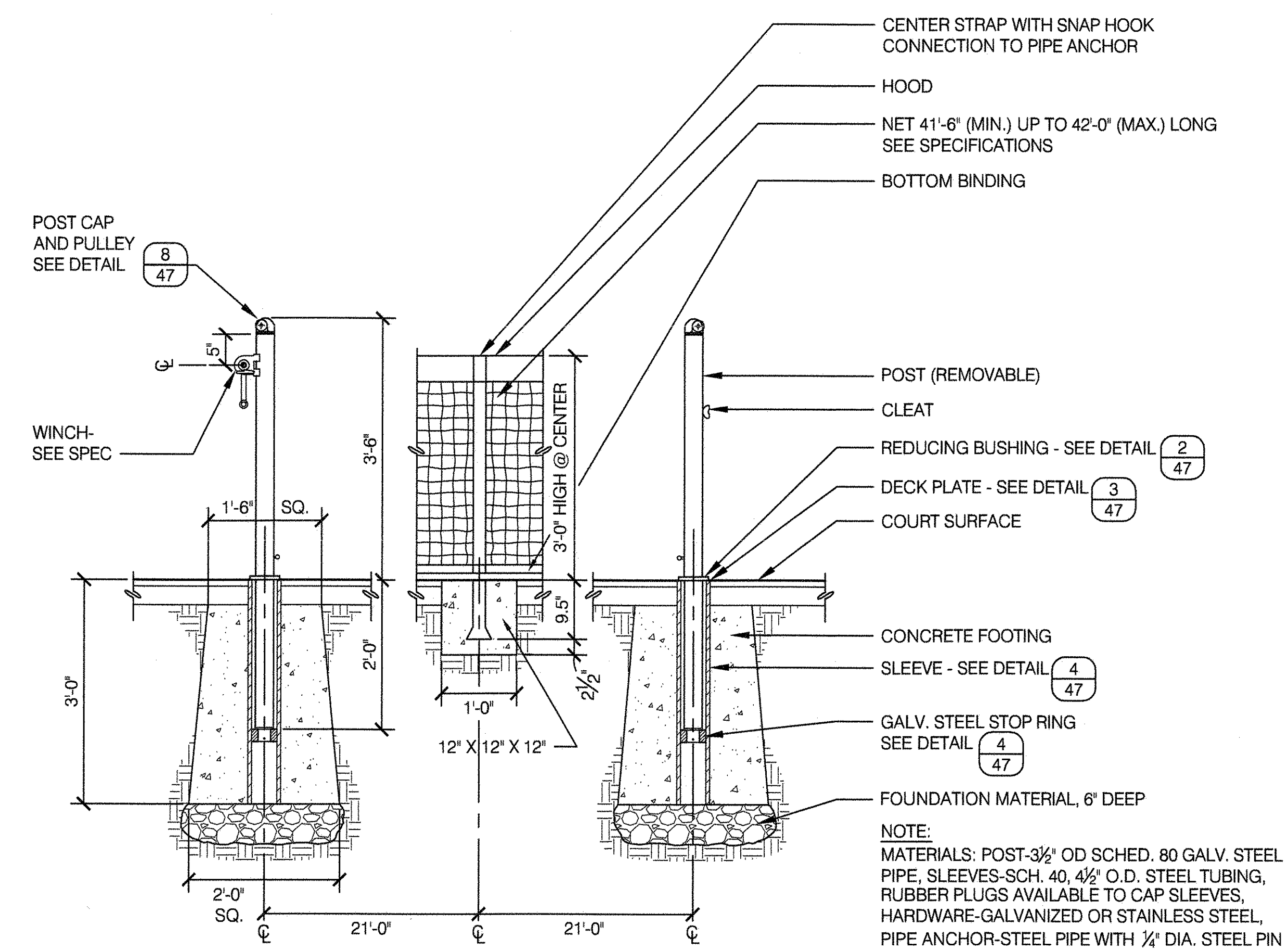
4 RING STOP FITTING

SCALE 6" = 1'-0"



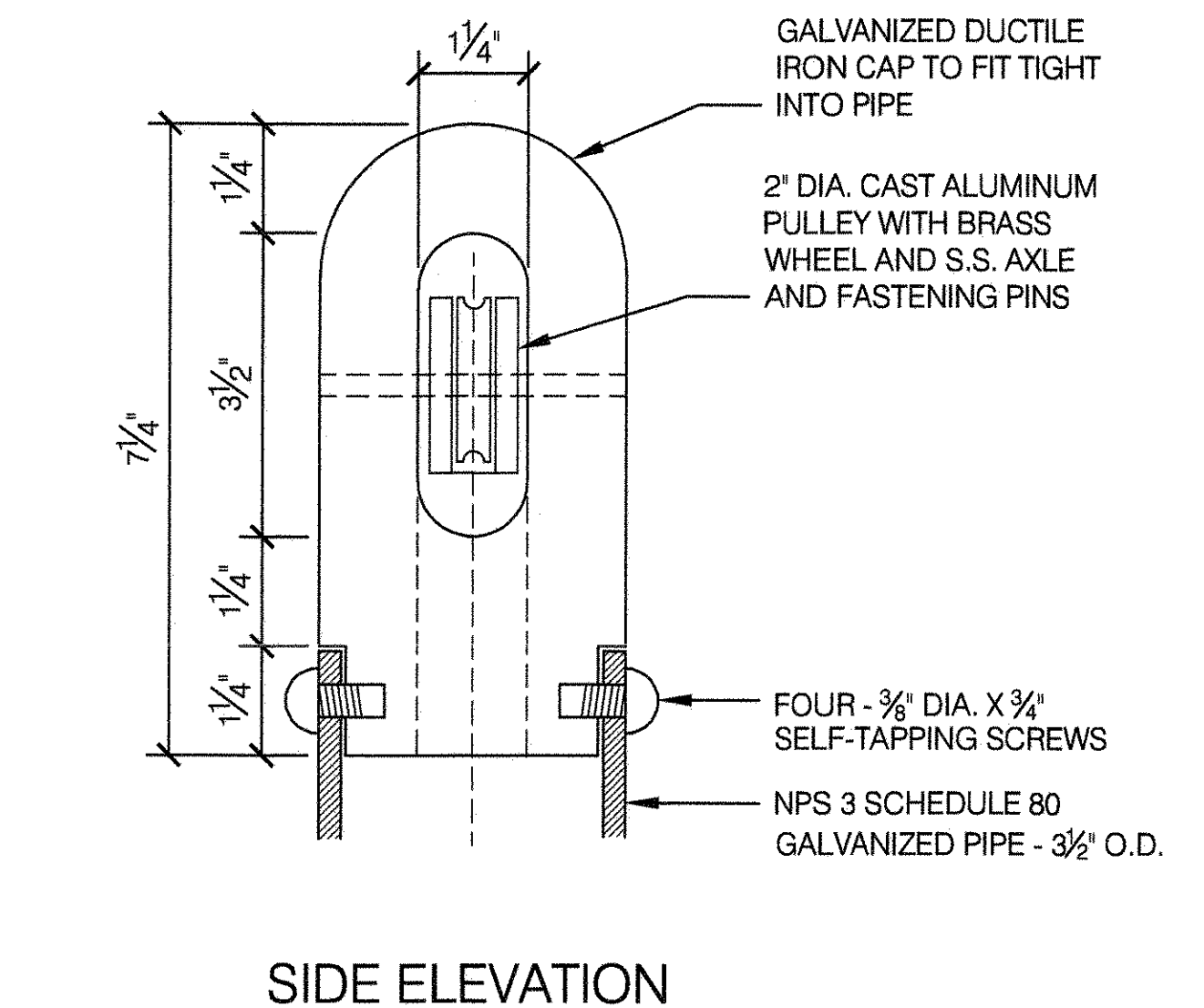
6 TENNIS NET POST AND CENTER STRAP ANCHOR-FRONT ELEVATION

SCALE 3/4" = 1'-0"



8 POST CAP AND PULLEY

SCALE 6" = 1'-0"



NOTE: HEIGHT OF POST SHALL BE MEASURED FROM FINISHED GRADE TO TOP OF PULLEY

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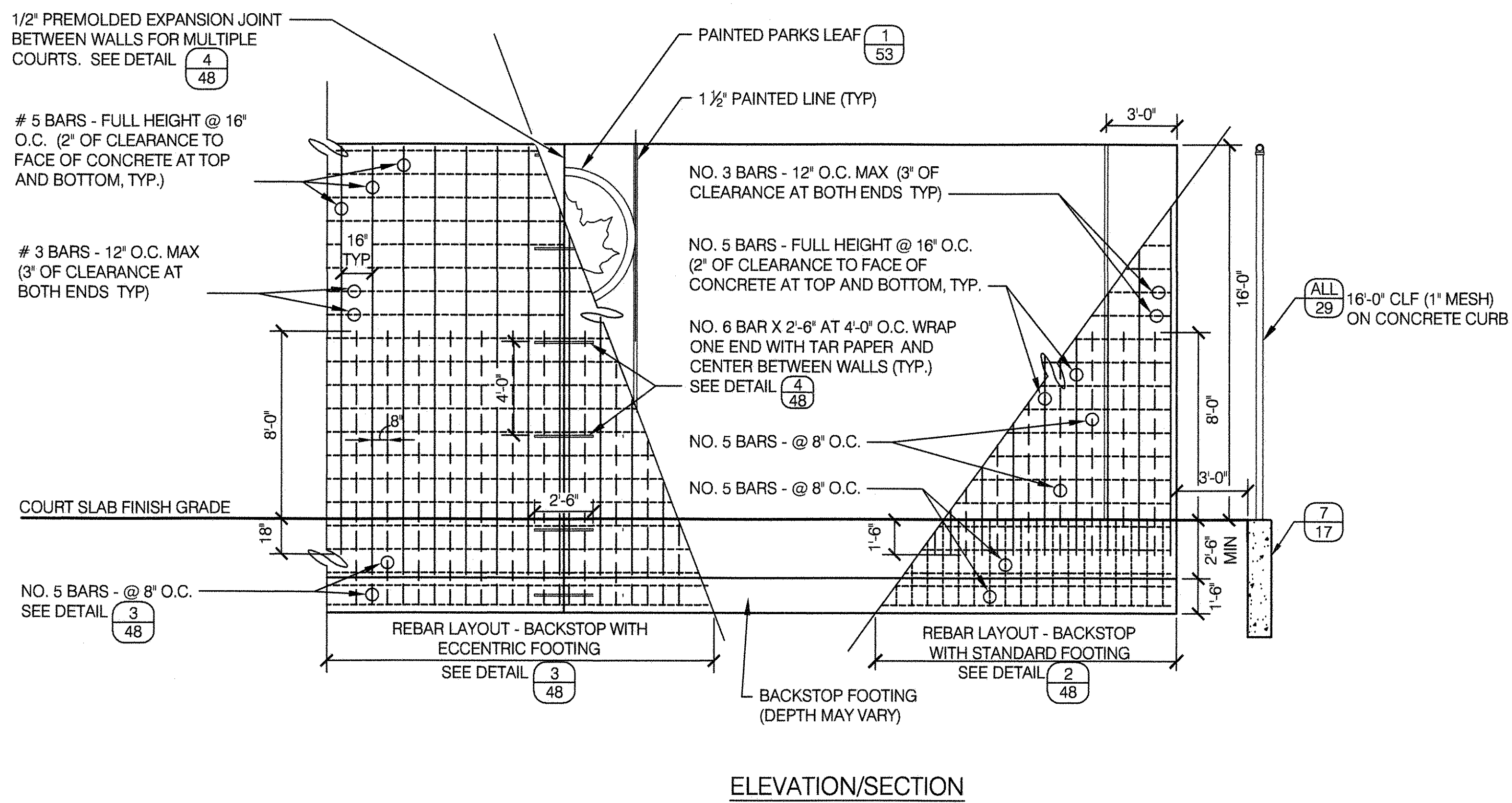
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DRAWING TITLE
TENNIS COURT LAYOUT AND DETAILS

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APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 47
	SCALE AS SHOWN

1 HANDBALL WALL AND COURT DETAIL

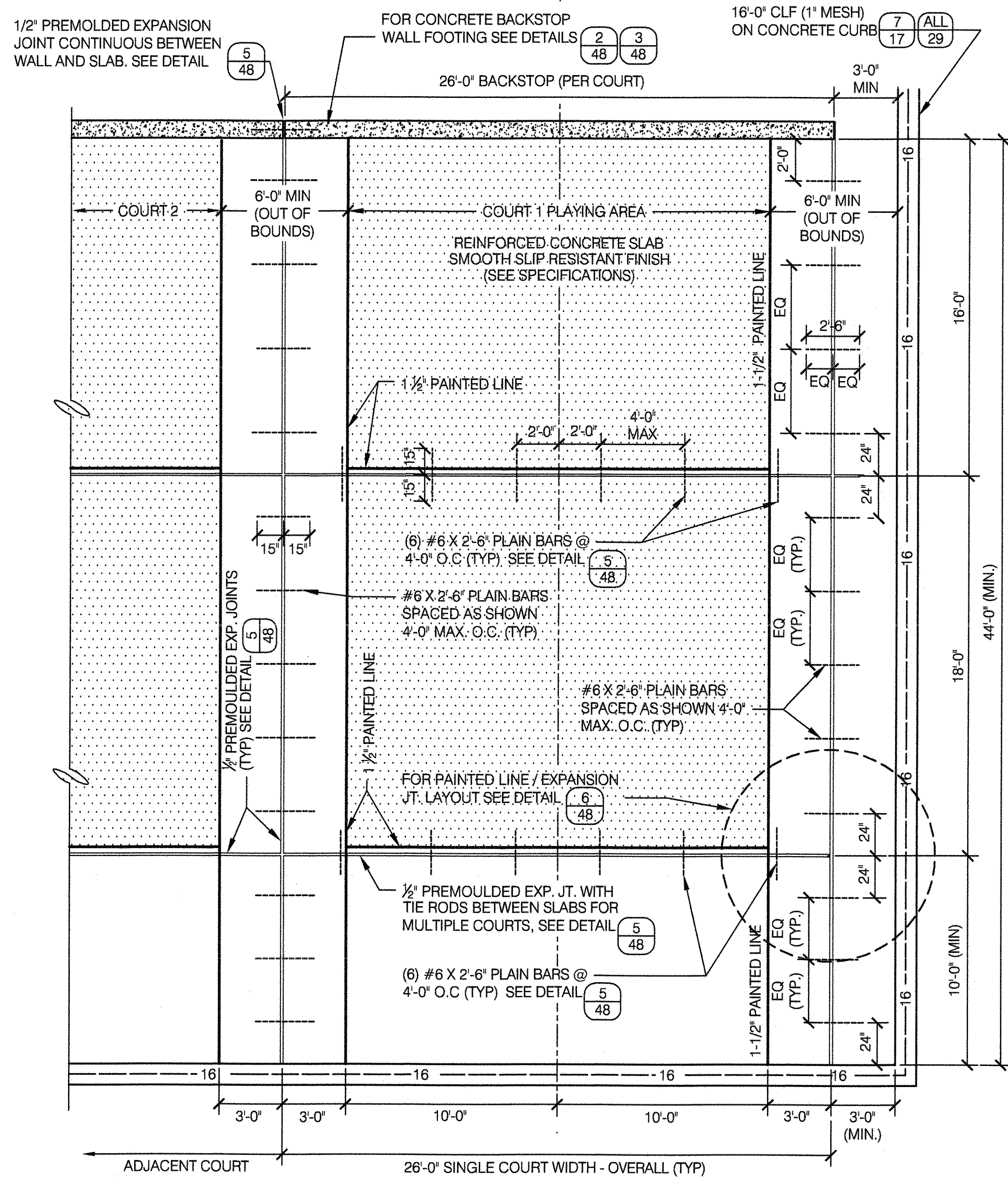
SCALE 1/2" = 1'-0"



ELEVATION/SECTION

NOTES:

1. ALL FENCE DETAILS SHALL BE AS PER DPR STANDARD DETAILS AND SPECIFICATIONS.
2. DISTANCES TO 16'-0" HT. CLF SHOWN ARE MINIMUM DIMENSIONS. SEE CONTRACT PLANS FOR EXACT LOCATION.
3. INSTALL PORTAL IN CLF AT LOCATIONS SHOWN ON CONTRACT PLANS. SEE DETAIL (30)



PLAN

2 BACKSTOP W/ STANDARD FOOTING- SECTION

SCALE 1" = 1'-0"

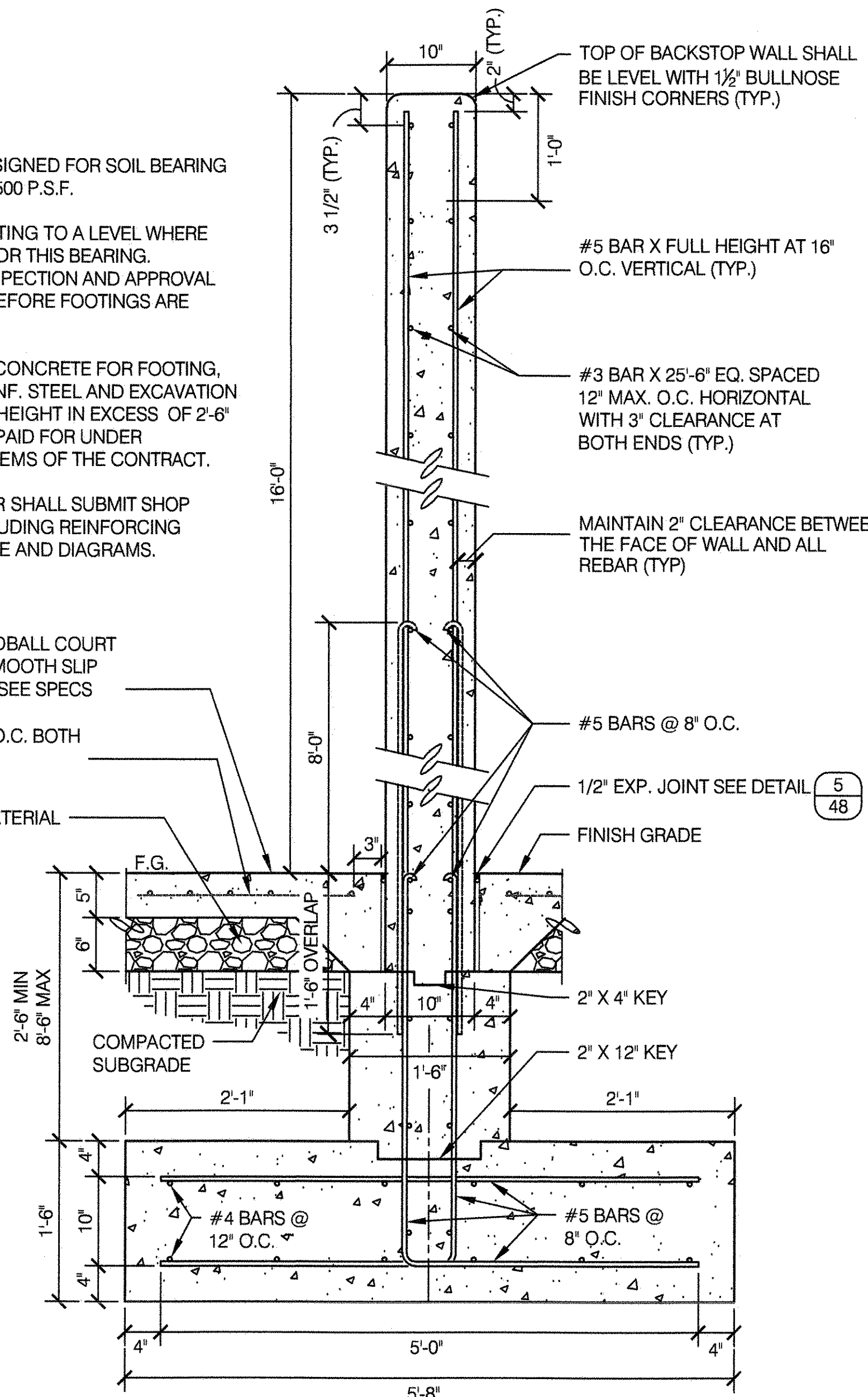
NOTES:

1. FOOTING DESIGNED FOR SOIL BEARING CAPACITY OF 2,500 P.S.F.
2. EXTEND FOOTING TO A LEVEL WHERE SOIL IS GOOD FOR THIS BEARING. SUBJECT TO INSPECTION AND APPROVAL OF ENGINEER BEFORE FOOTINGS ARE POURED.
3. ADDITIONAL CONCRETE FOR FOOTING, CONCRETE, REINF. STEEL AND EXCAVATION REQUIRED FOR HEIGHT IN EXCESS OF 2'-6" DEPTH WILL BE PAID FOR UNDER APPROPRIATE ITEMS OF THE CONTRACT.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING REINFORCING STEEL SCHEDULE AND DIAGRAMS.

CONCRETE HANDBALL COURT PAVEMENT W/ SMOOTH SLIP RESIST. FINISH - SEE SPECS

#3 REBAR @ 9" O.C. BOTH DIRECTIONS

FOUNDATION MATERIAL FOR CONCRETE



4 ADJOINING WALLS- SECTION

SCALE 1" = 1'-0"

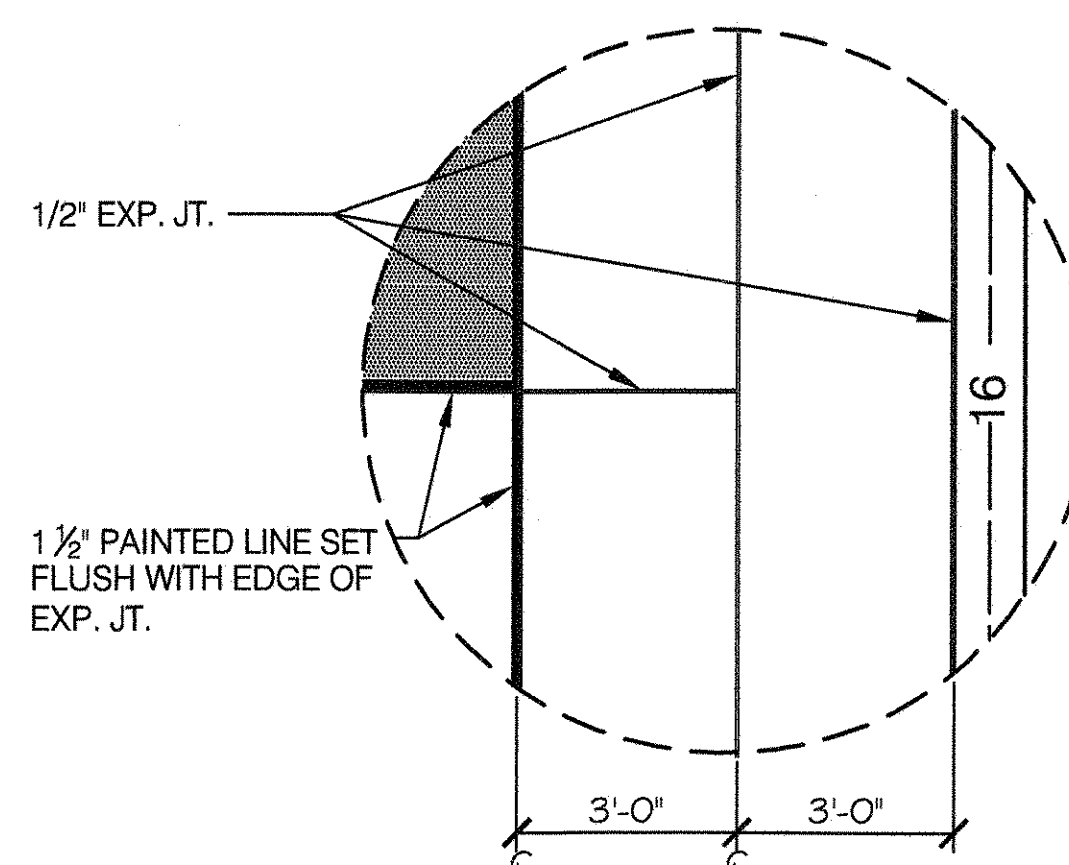
TYPICAL 1/2" EXP. JOINT WITH BACKER ROD & SEALANT- SEE DETAIL (5)

#6 X 2'-6" AT 4'-0" O.C. WRAP ONE END WITH TAR PAPER AND CENTER BETWEEN SLABS (TYP.)

BACKSTOP WALL (TYP.) SEE APPLICABLE INFO. DETAILS (1), (2), (3)

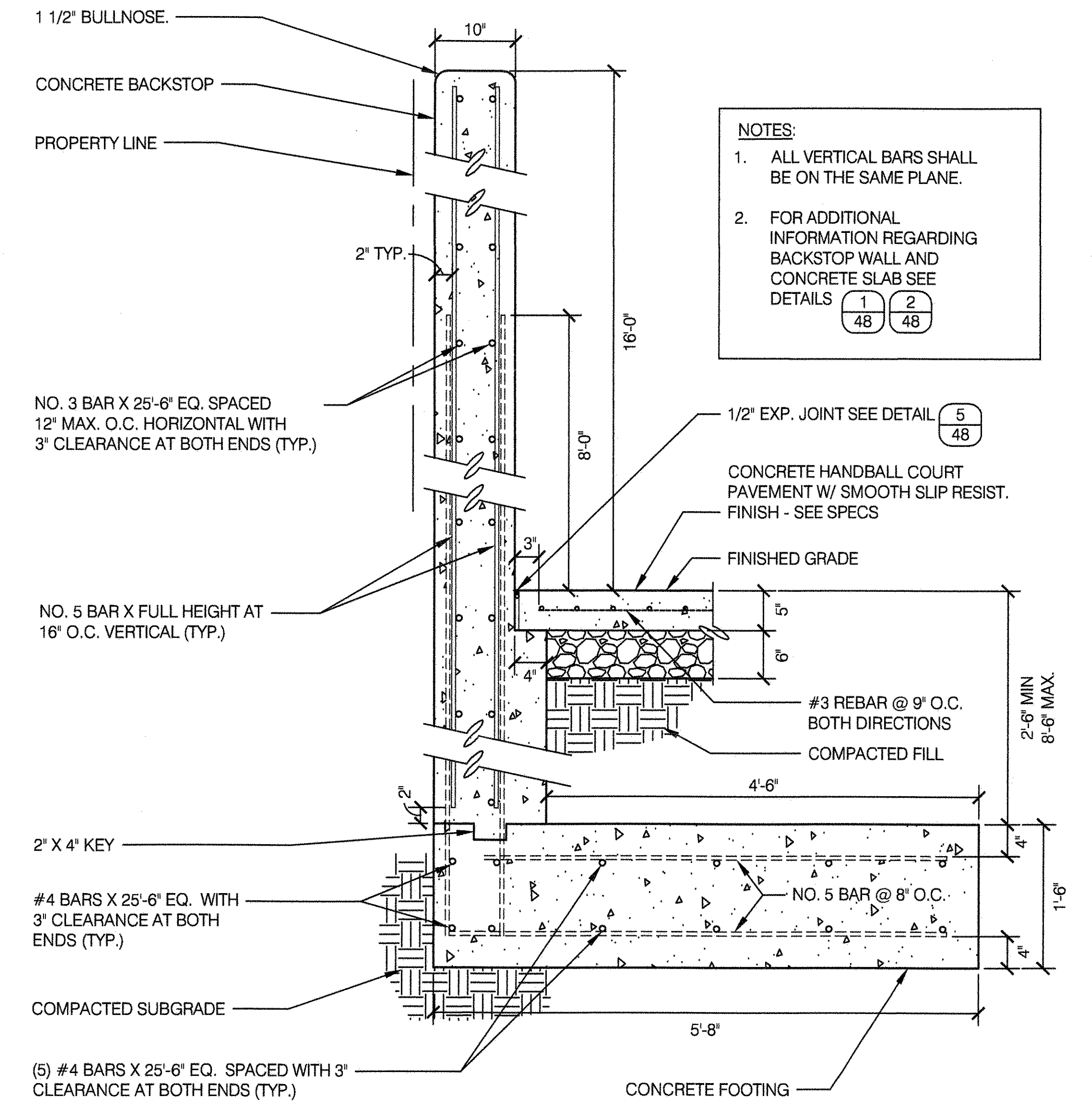
6 PAVEMENT STRIPING DETAIL

SCALE 1'-0" = 1'-0"



3 BACKSTOP W/ ECCENTRIC FOOTING- SECTION

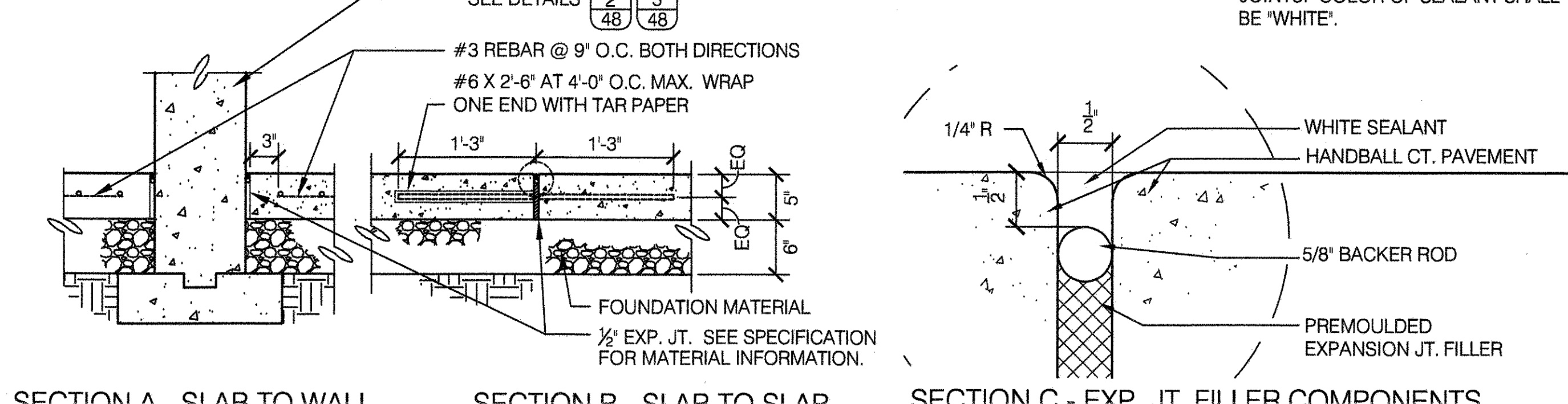
SCALE 1" = 1'-0" (FOR BACKSTOP LOCATED AT PROPERTY LINE)



- NOTES:**
1. ALL VERTICAL BARS SHALL BE ON THE SAME PLANE.
 2. FOR ADDITIONAL INFORMATION REGARDING BACKSTOP WALL AND CONCRETE SLAB SEE DETAILS (1), (2), (48)

5 EXPANSION JOINT DETAILS

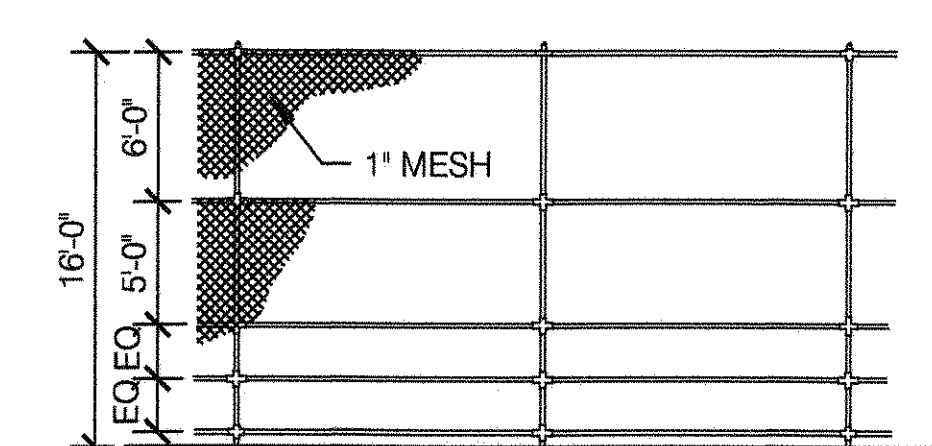
SCALE 1" = 1'-0"



NOTE: FILLER COMPONENTS APPLY TO ALL JOINTS. COLOR OF SEALANT SHALL BE 'WHITE'.

7 16'-0" CHAIN LINK FENCE

SCALE 1/8" = 1'-0"



- NOTES:**
1. PROVIDE ADDITIONAL RAIL ON LOWER THIRD OF FENCE, AROUND ENTIRE HANDBALL COURT.
 2. SEE STANDARD DETAIL SHEET #29 AND DPR SPECIFICATIONS.

NOTES:

1. CONCRETE SHALL BE AIR ENTRAINED CONTROLLED CONCRETE (FC) = 4,000 PSI WITH A MINIMUM OF 6 BAGS OF CONCRETE PER CUBIC YARD OF CONCRETE AS PER METHOD 1 OF C26-1004.3 OF N.Y.C. BUILDING CODE AS AMENDED TO DATE.
2. COARSE AGGREGATE FOR BACKSTOP WALL AND FOOTINGS SHALL BE 1/2" AND 1 1/2" RESPECTIVELY. CONCRETE SHALL BE POURED IN ONE CONTINUOUS OPERATION, WELL PUDDLED AND FORMS VIBRATED.
3. PLAYING SURFACES TO BE TRUE TO LINE. FREE OF VOIDS AND FINISHED BY RUBBING DOWN WITH WATER AND CARBORUNDUM BRICK. CEMENT WASH WILL NOT BE PERMITTED.
4. ALL REINFORCING BARS TO BE DEFORMED BARS, INTERMEDIATE GRADE BILLET STEEL.
5. CONCRETE PLAYING SLAB TO BE LIGHT GRAY CONCRETE.
6. ALL EDGES OF CONCRETE SHALL BE EASED AT EXP. JOINTS AND BULLNOSED AT TOP CORNERS OF BACKSTOP WALLS.
7. MIN 2" CLEARANCE REQUIRED FROM REINFORCING BARS TO FACE OF CONCRETE UNLESS OTHERWISE INDICATED.



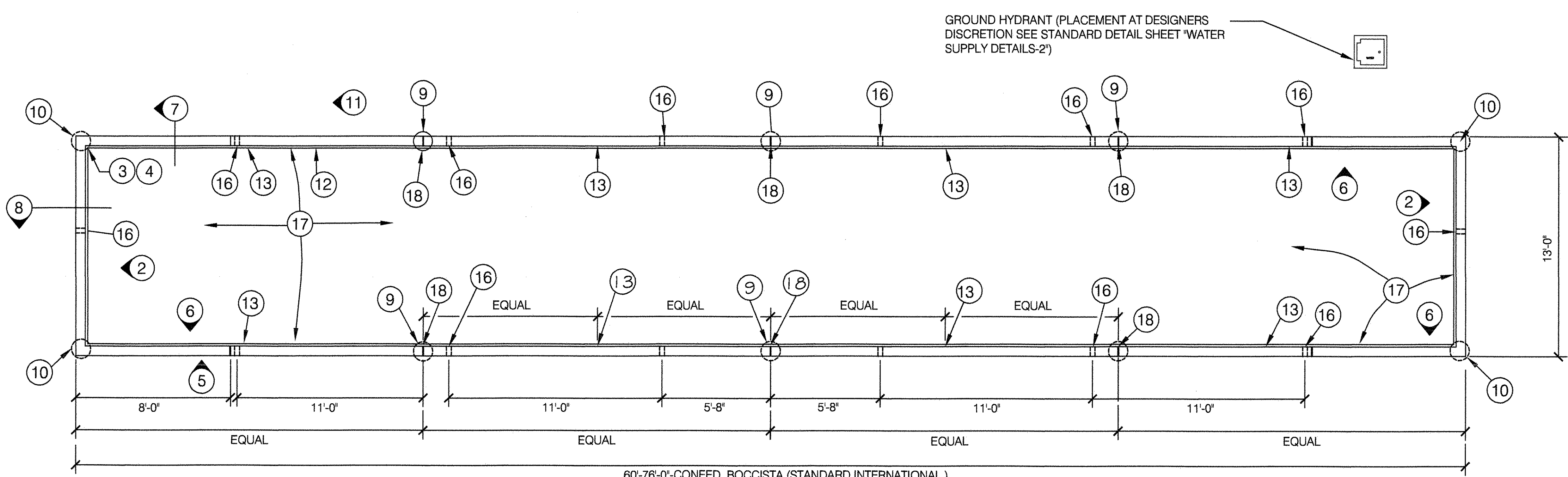
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HANDBALL COURT AND BACKSTOP DETAILS

DRAWN BY D. FLYNN	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 48
DATE 09-01-2020	SCALE AS SHOWN

1 PLAN OF BOCCIE

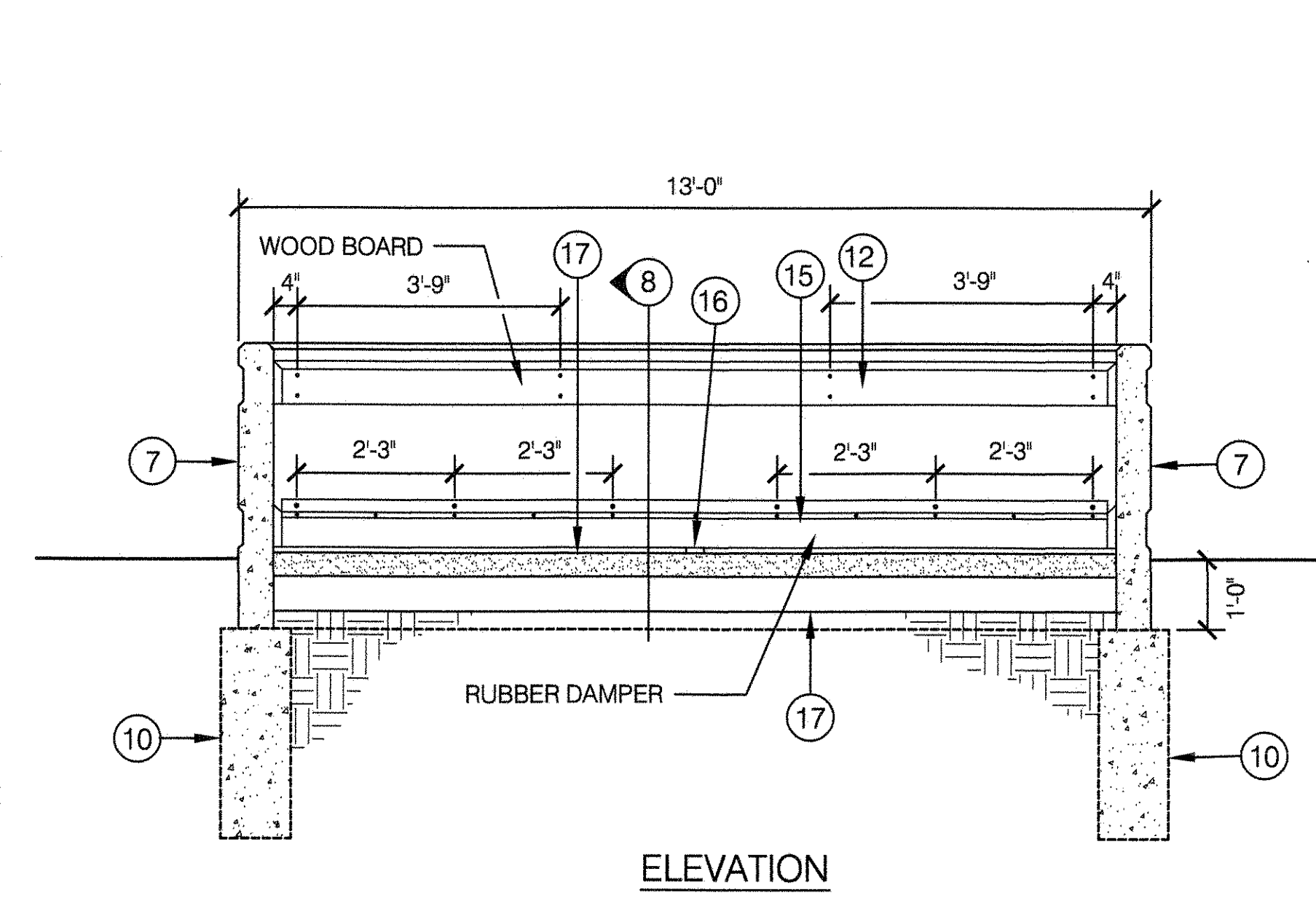
SCALE 1/2" = 1'-0"



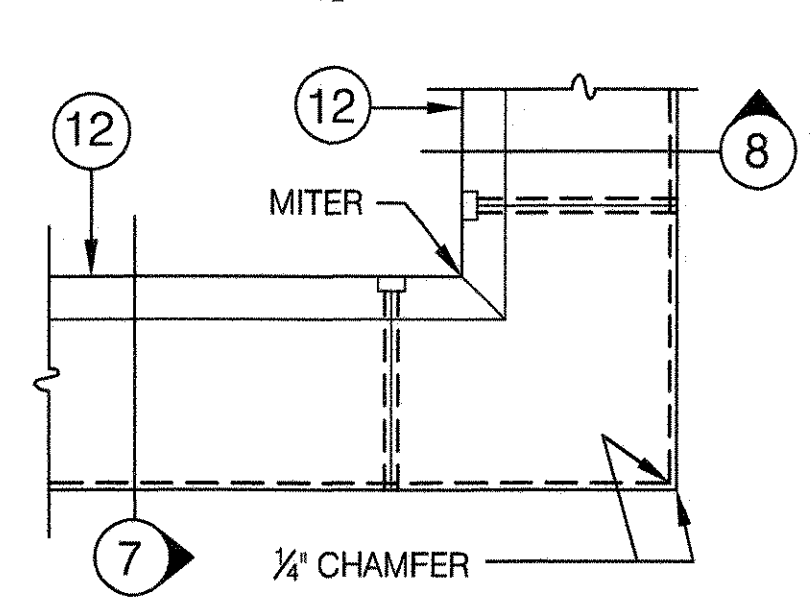
GROUND HYDRANT (PLACEMENT AT DESIGNERS DISCRETION SEE STANDARD DETAIL SHEET "WATER SUPPLY DETAILS-2")

2 3'-0" HIGH END WALL

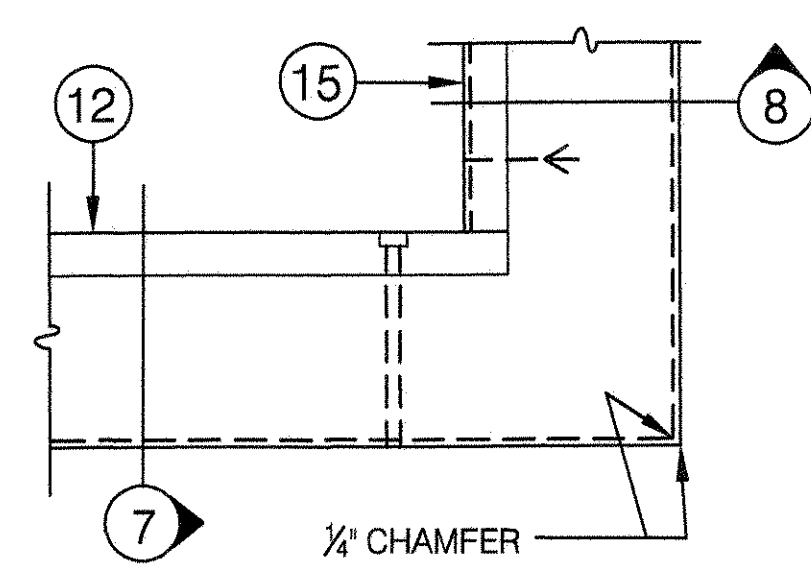
SCALE 1/2" = 1'-0"

**3 PLAN**

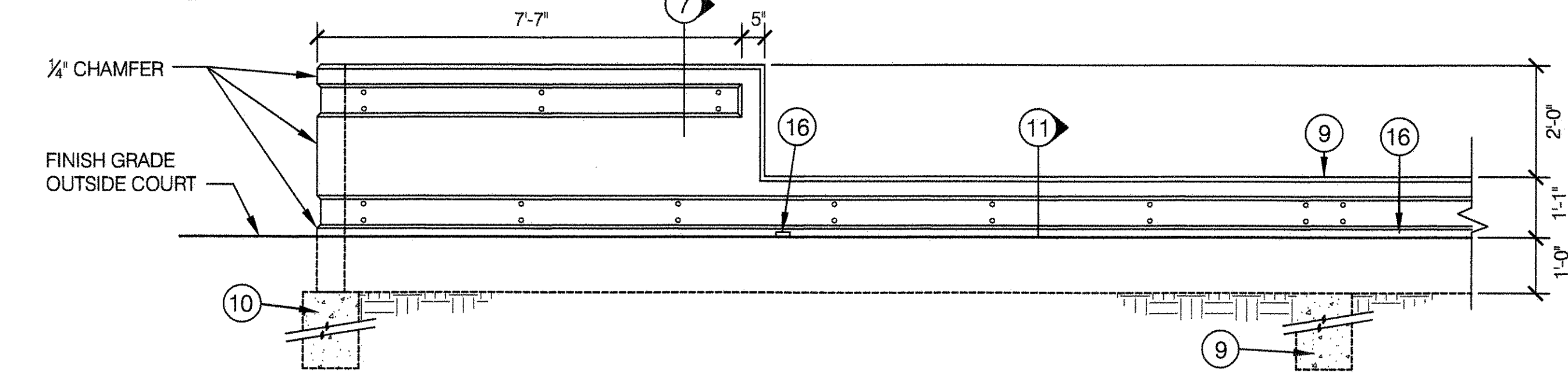
SCALE 1/2" = 1'-0"

**4 PLAN**

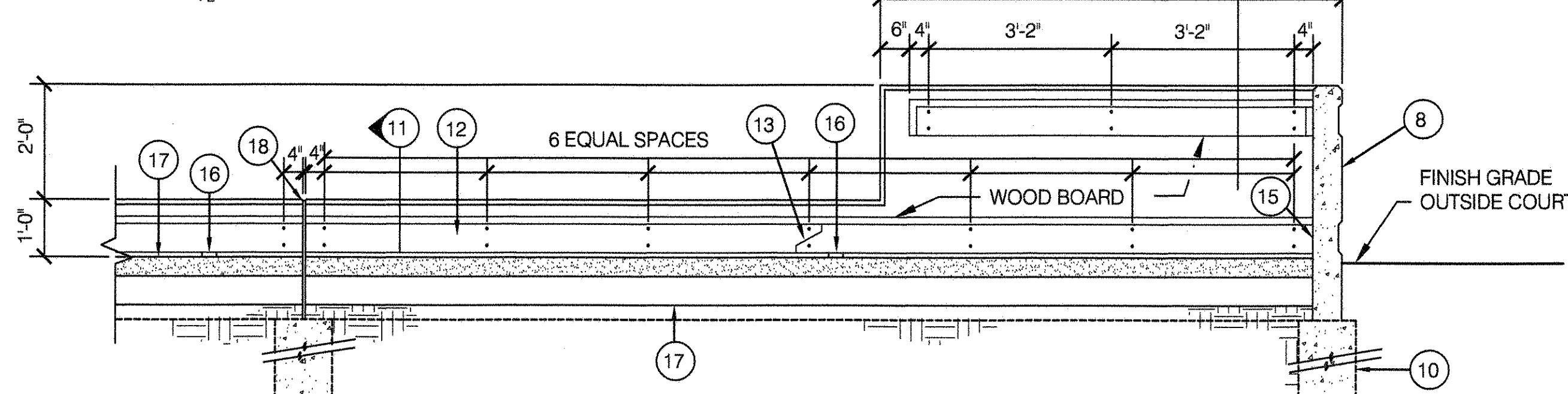
SCALE 1/2" = 1'-0"

**5 ELEVATION - OUTSIDE**

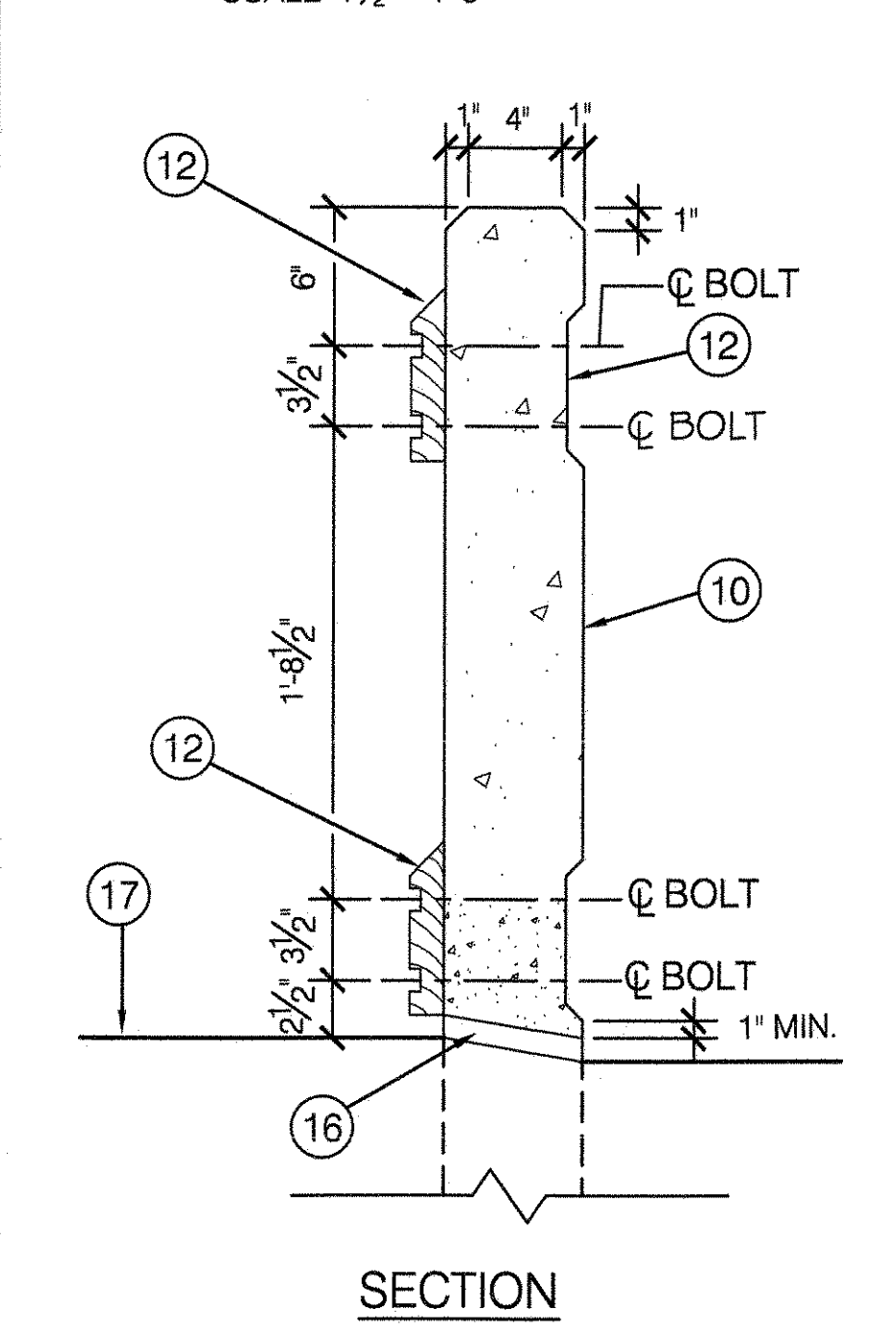
SCALE 1/2" = 1'-0"

**6 ELEVATION - INSIDE**

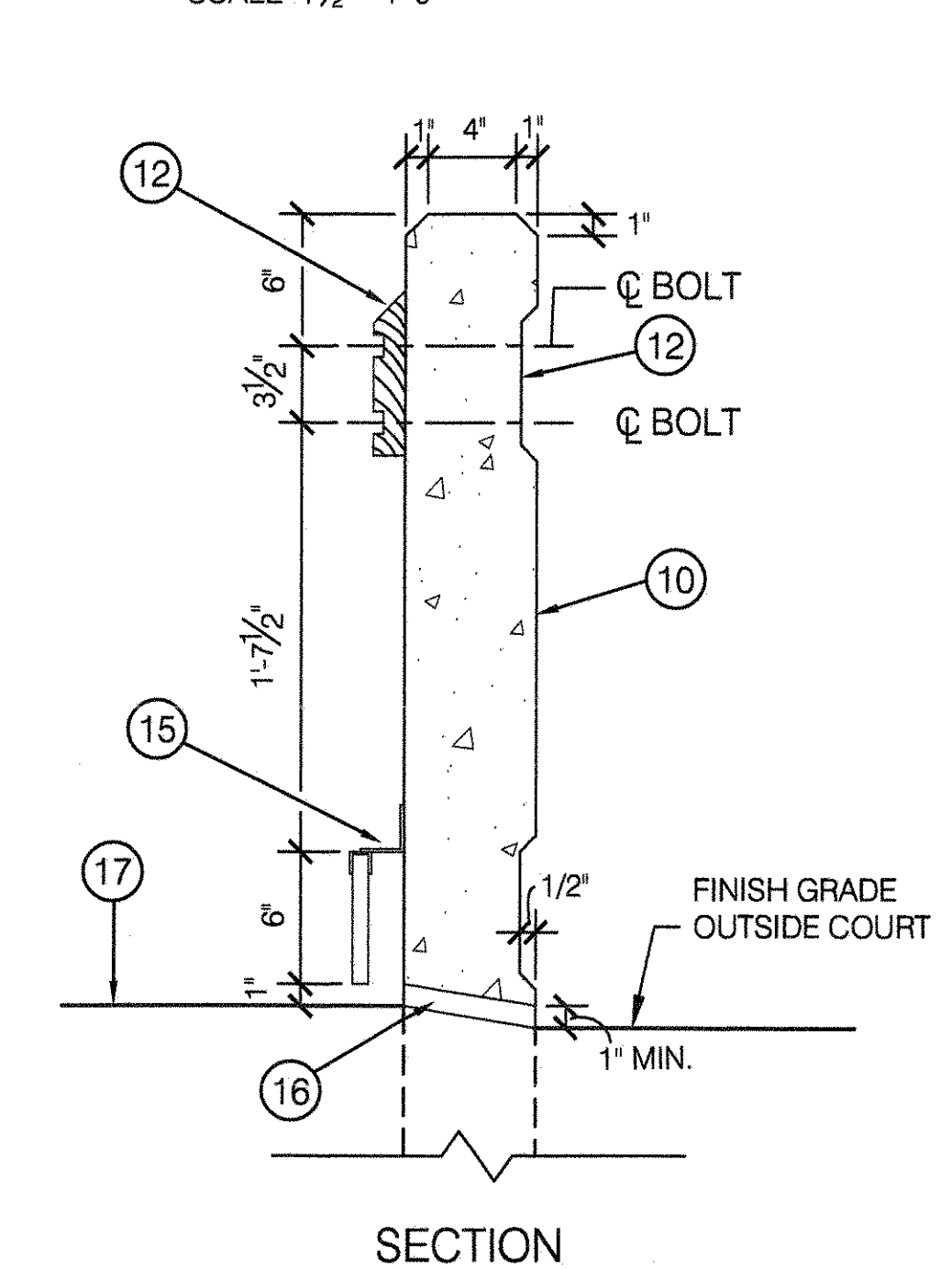
SCALE 1/2" = 1'-0"

**7 3'-0" HIGH SIDE WALL**

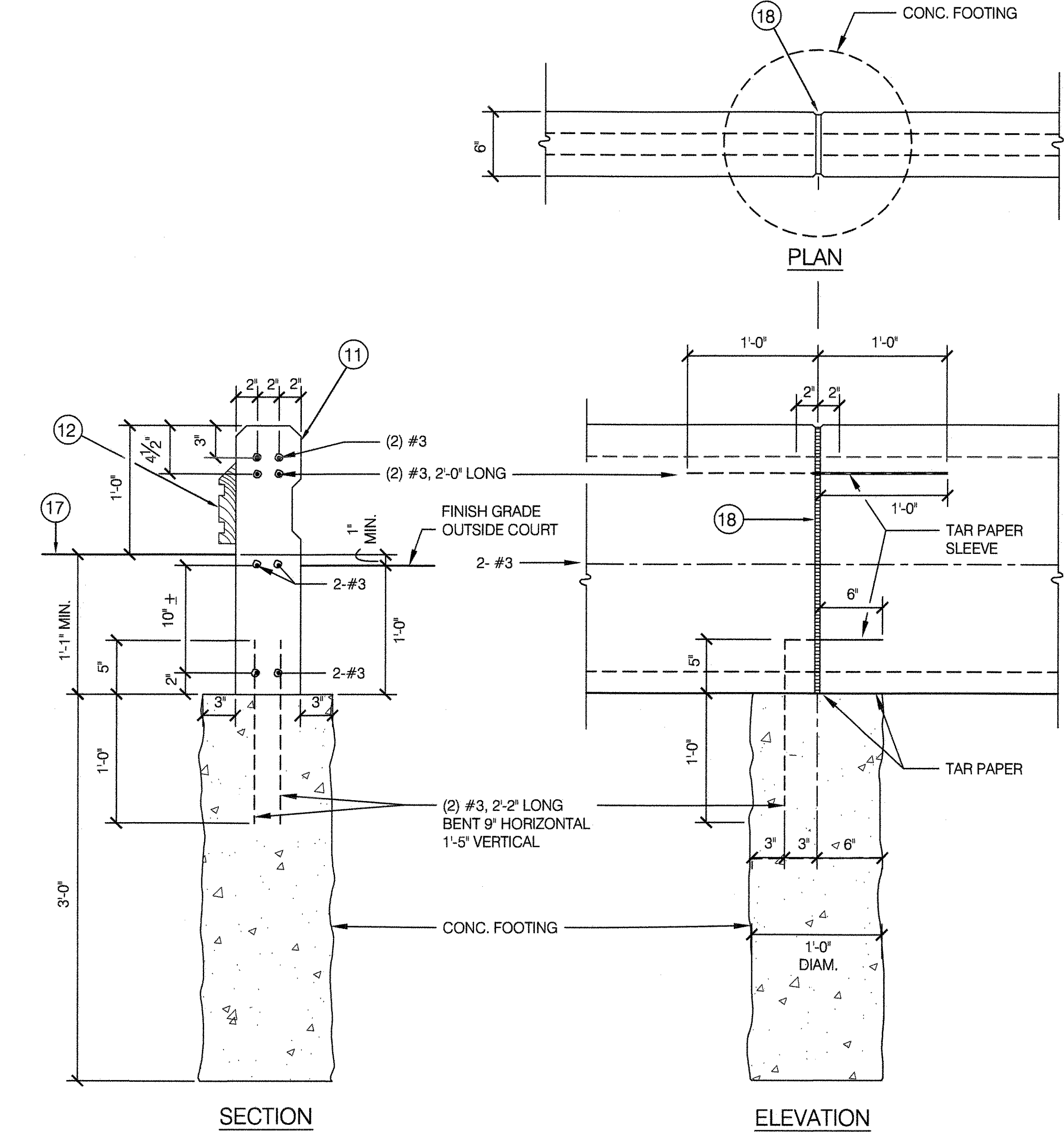
SCALE 1/2" = 1'-0"

**8 3'-0" HIGH SIDE WALL**

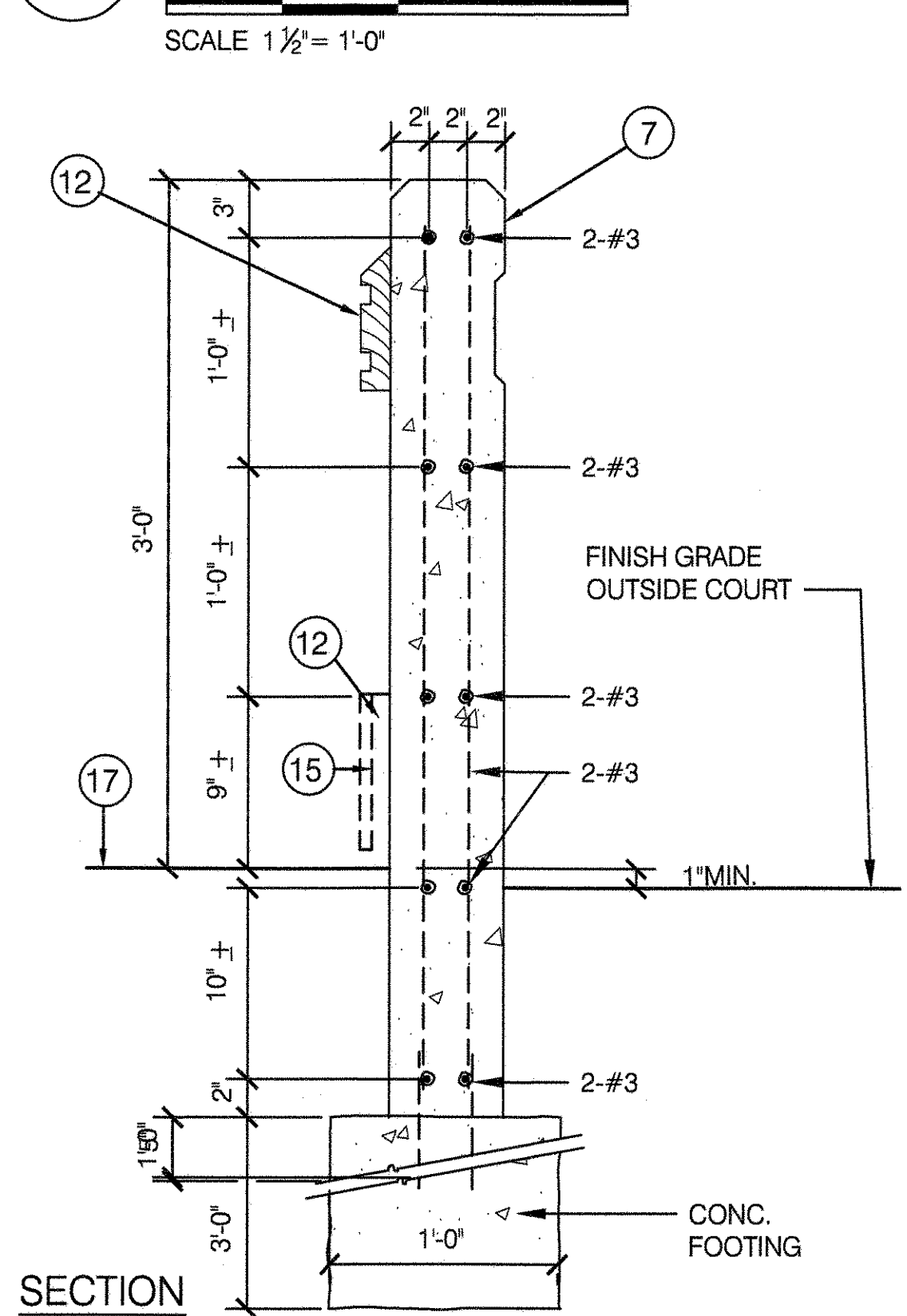
SCALE 1/2" = 1'-0"

**9 REINF. FOR 1'-0" HIGH WALL WITH FOUNDATION**

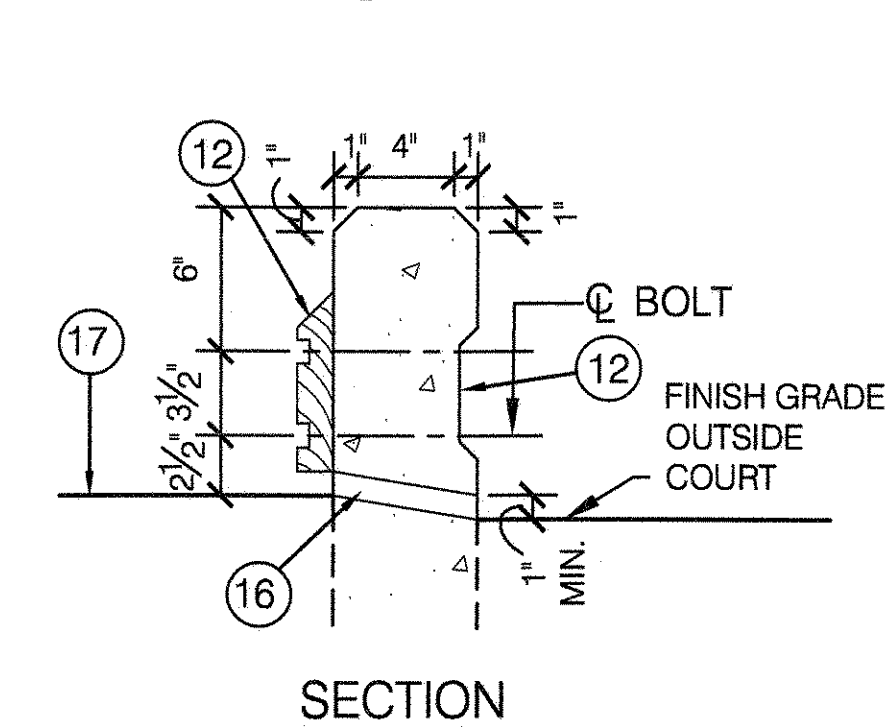
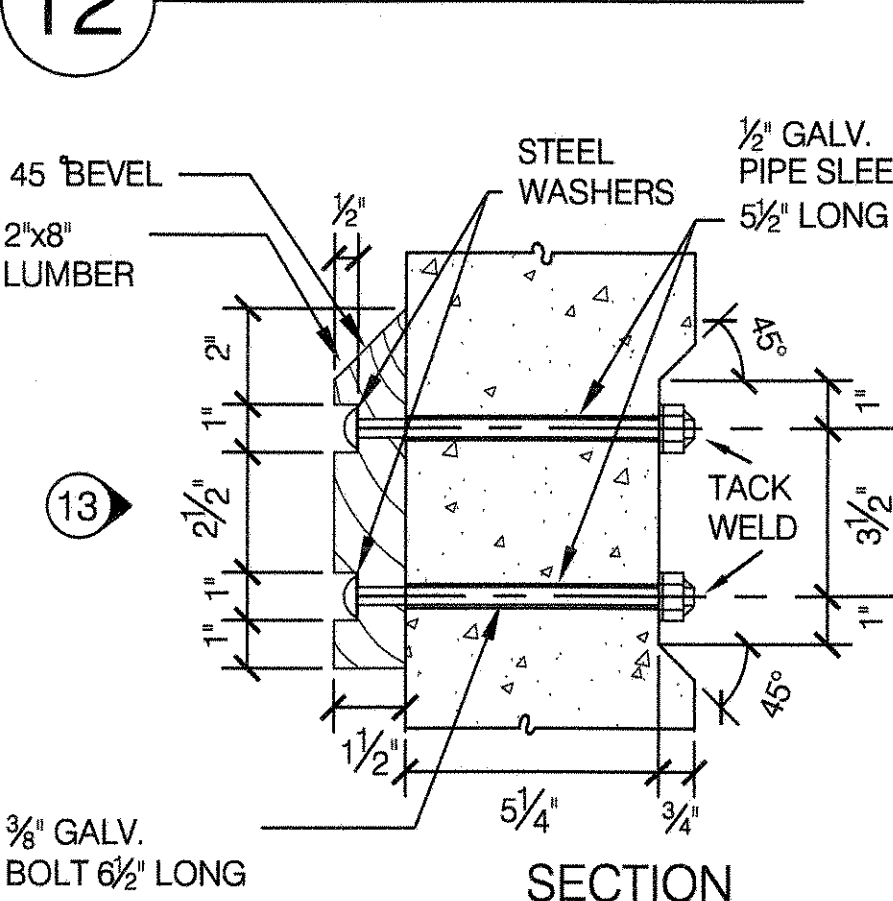
SCALE 1/2" = 1'-0"

**10 REINF. FOR 3'-0" HIGH WALL WITH FOUNDATION**

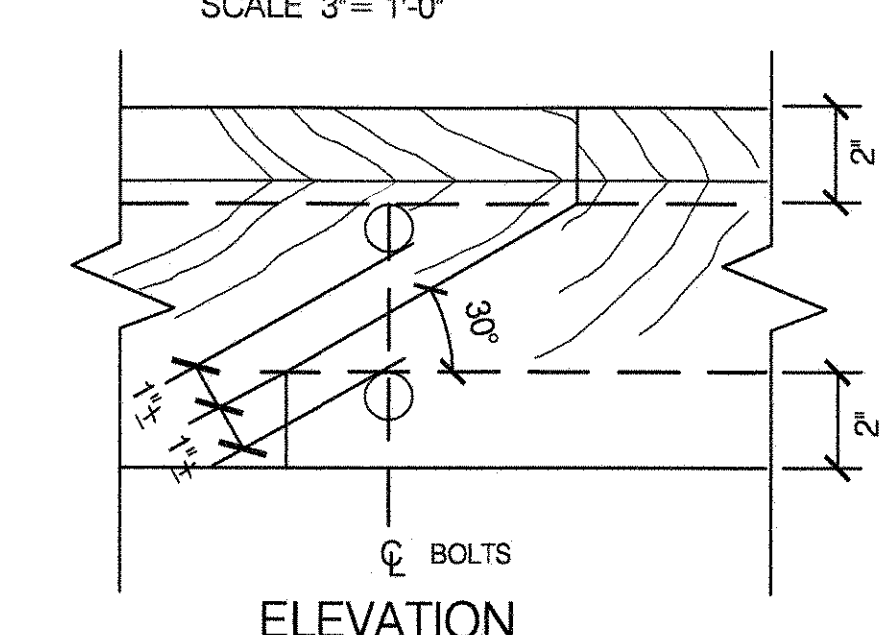
SCALE 1/2" = 1'-0"

**11 1'-0" HIGH WALL**

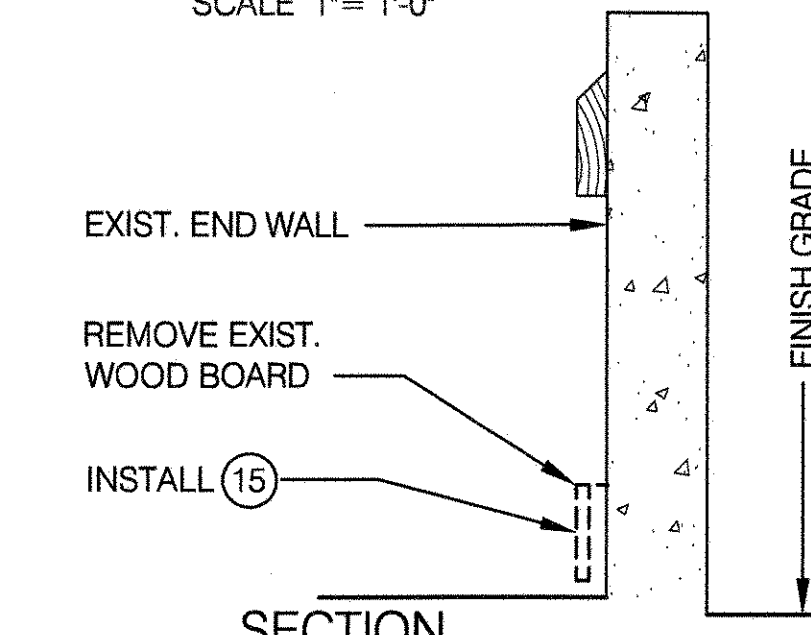
SCALE 1/2" = 1'-0"

**12 WOOD BOARD****13 SCARF JOINT**

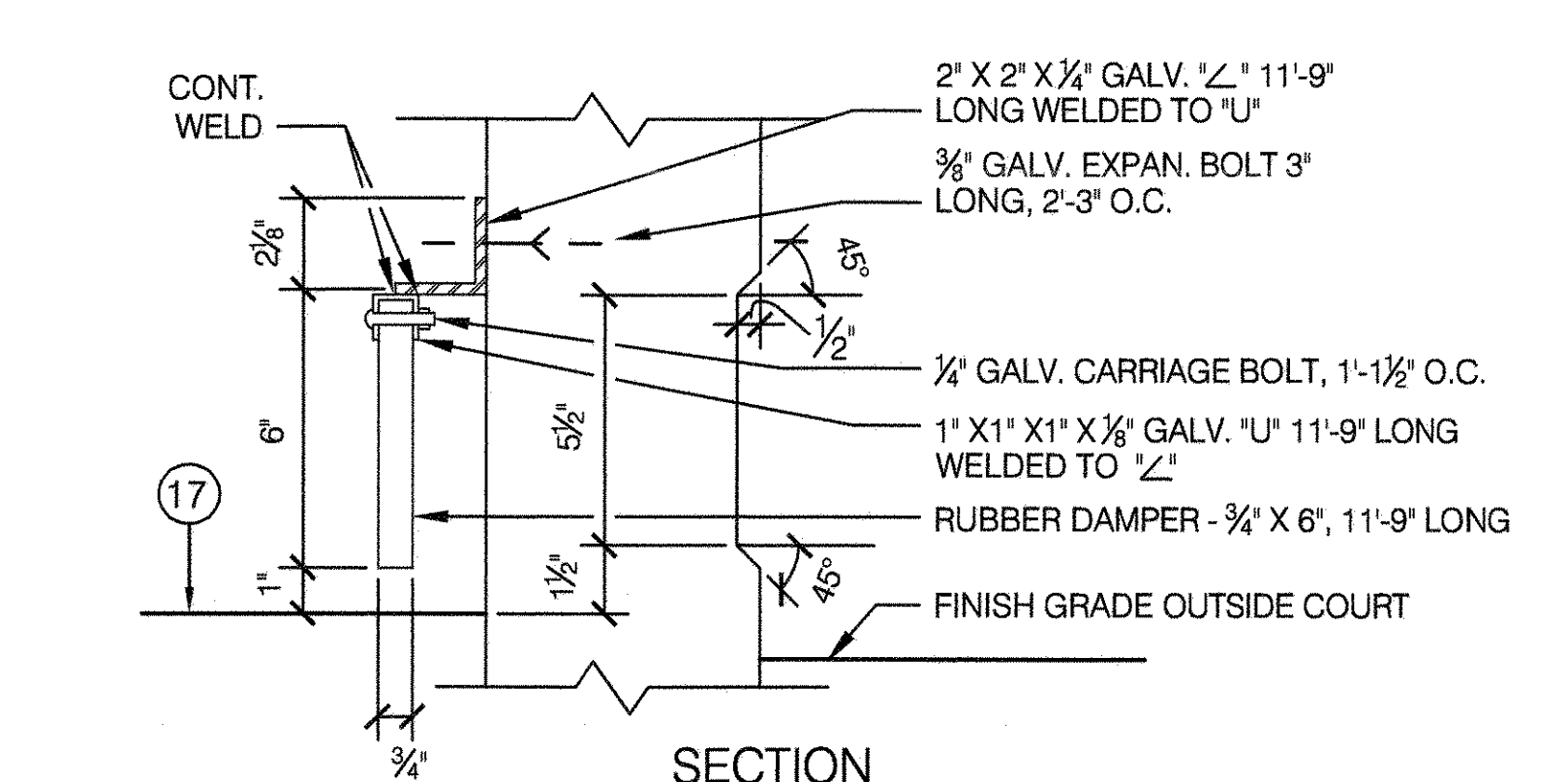
SCALE 3/4" = 1'-0"

**14 EXIST. BOCCIE**

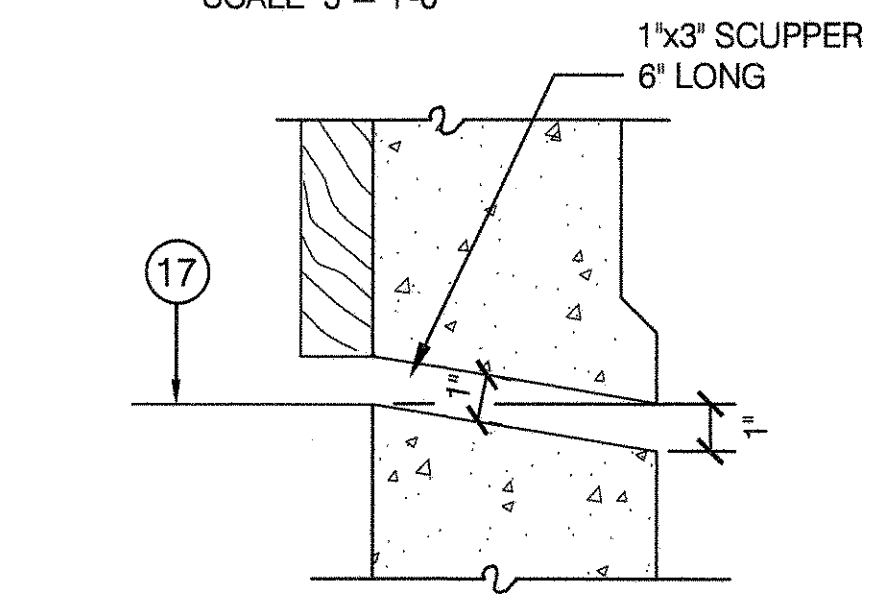
SCALE 1" = 1'-0"

**15 RUBBER DAMPER**

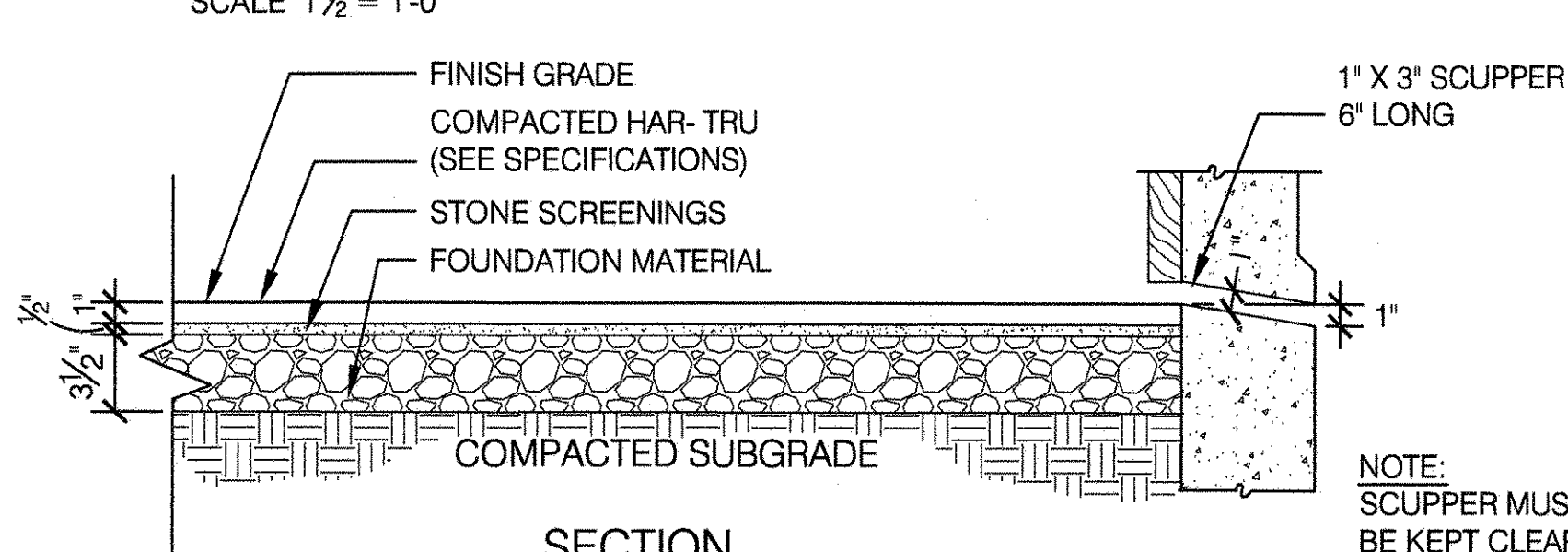
SCALE 3/4" = 1'-0"

**16 SCUPPER**

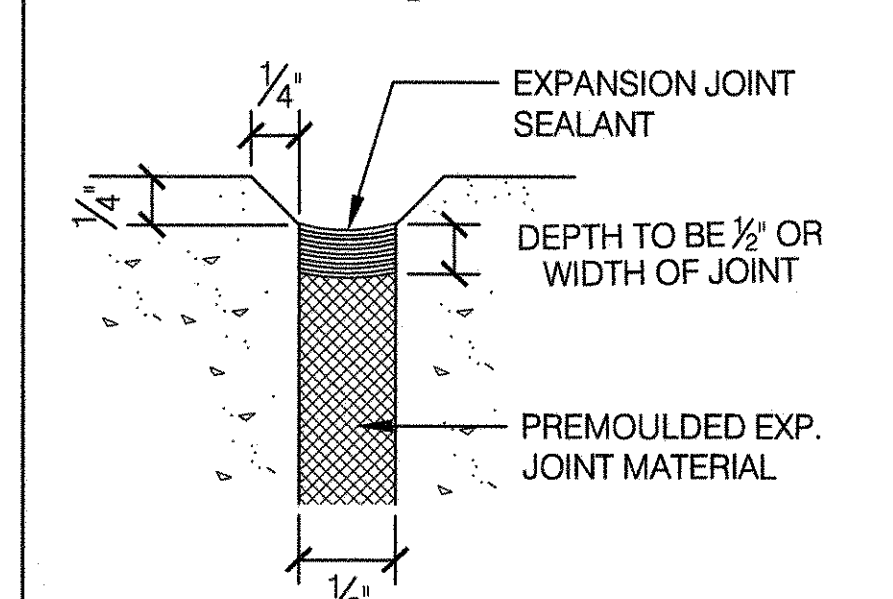
SCALE 3/4" = 1'-0"

**17 PLAYING SURFACE**

SCALE 1/2" = 1'-0"

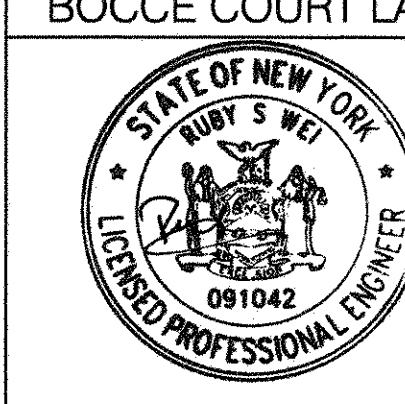
**18 EXPANSION JOINT**

SCALE 1/2" = 1'-0"

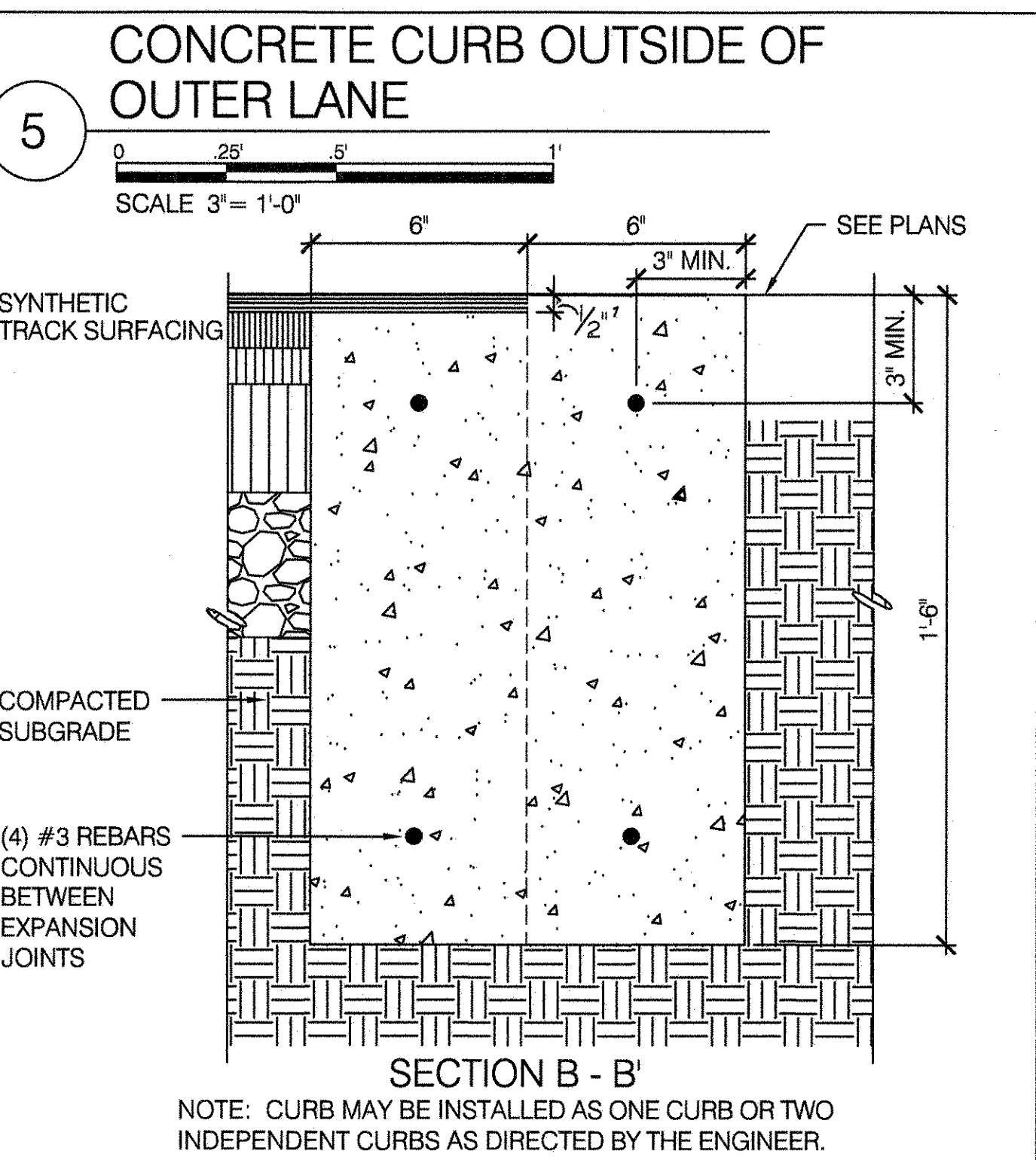
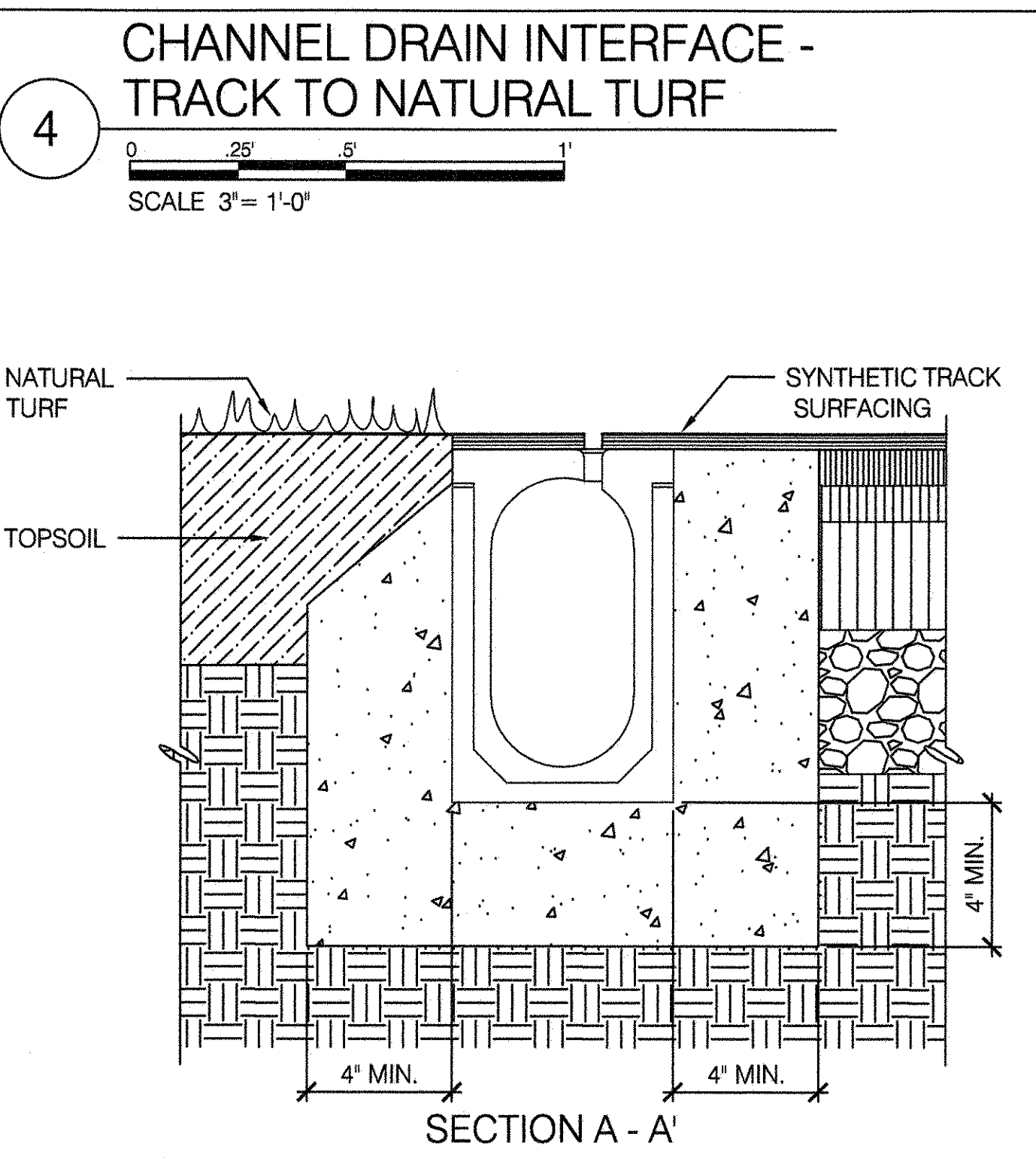
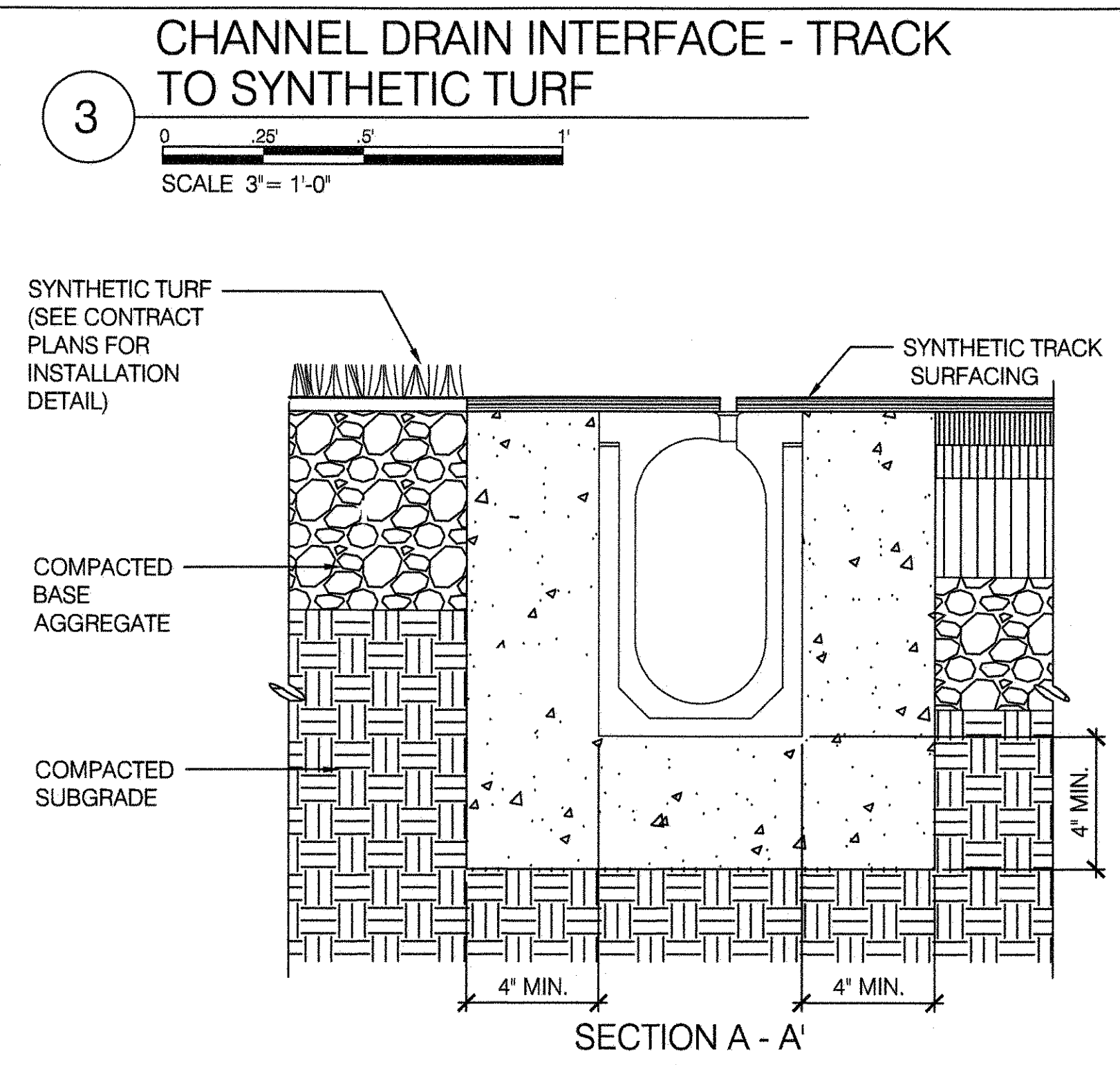
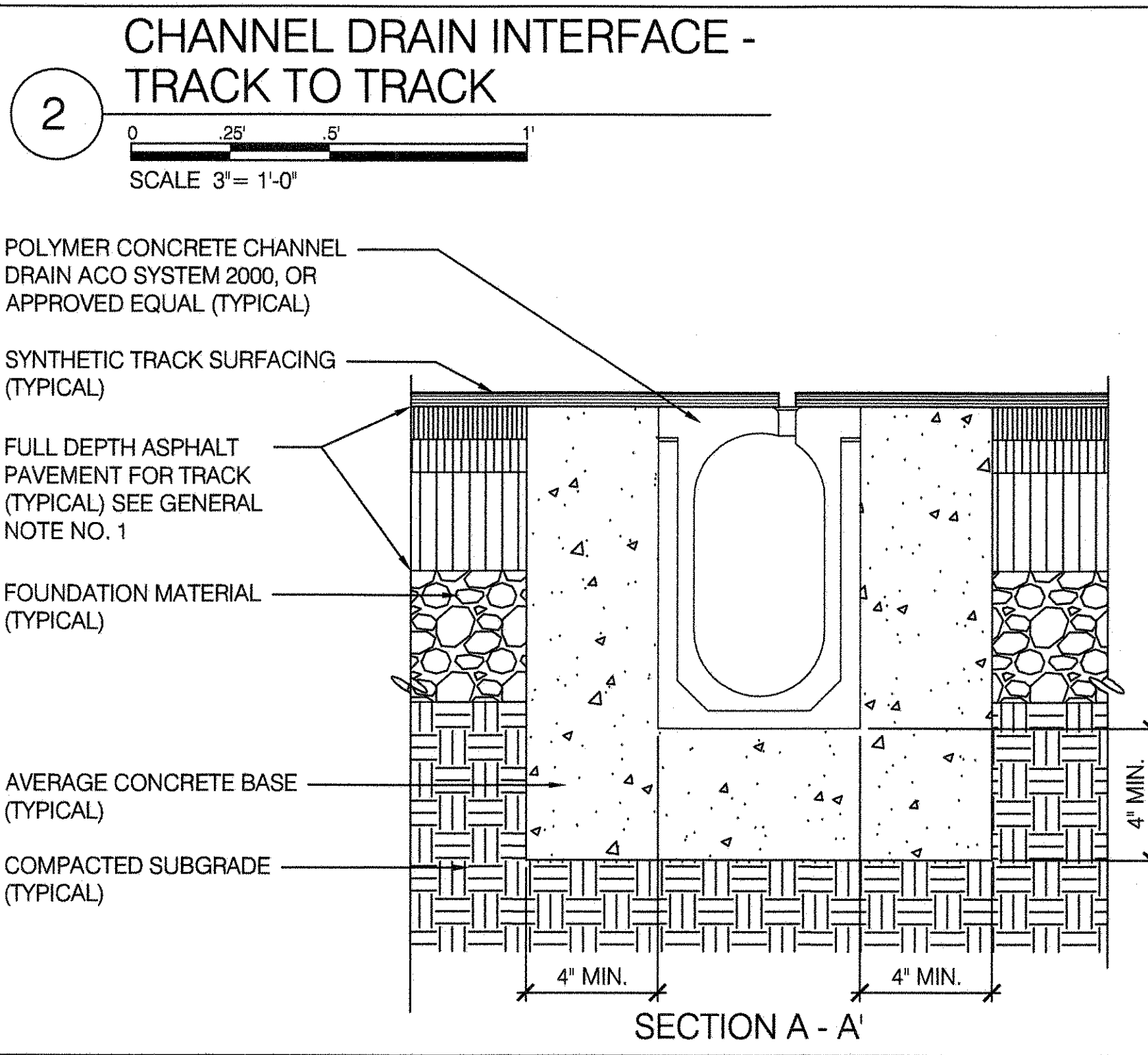
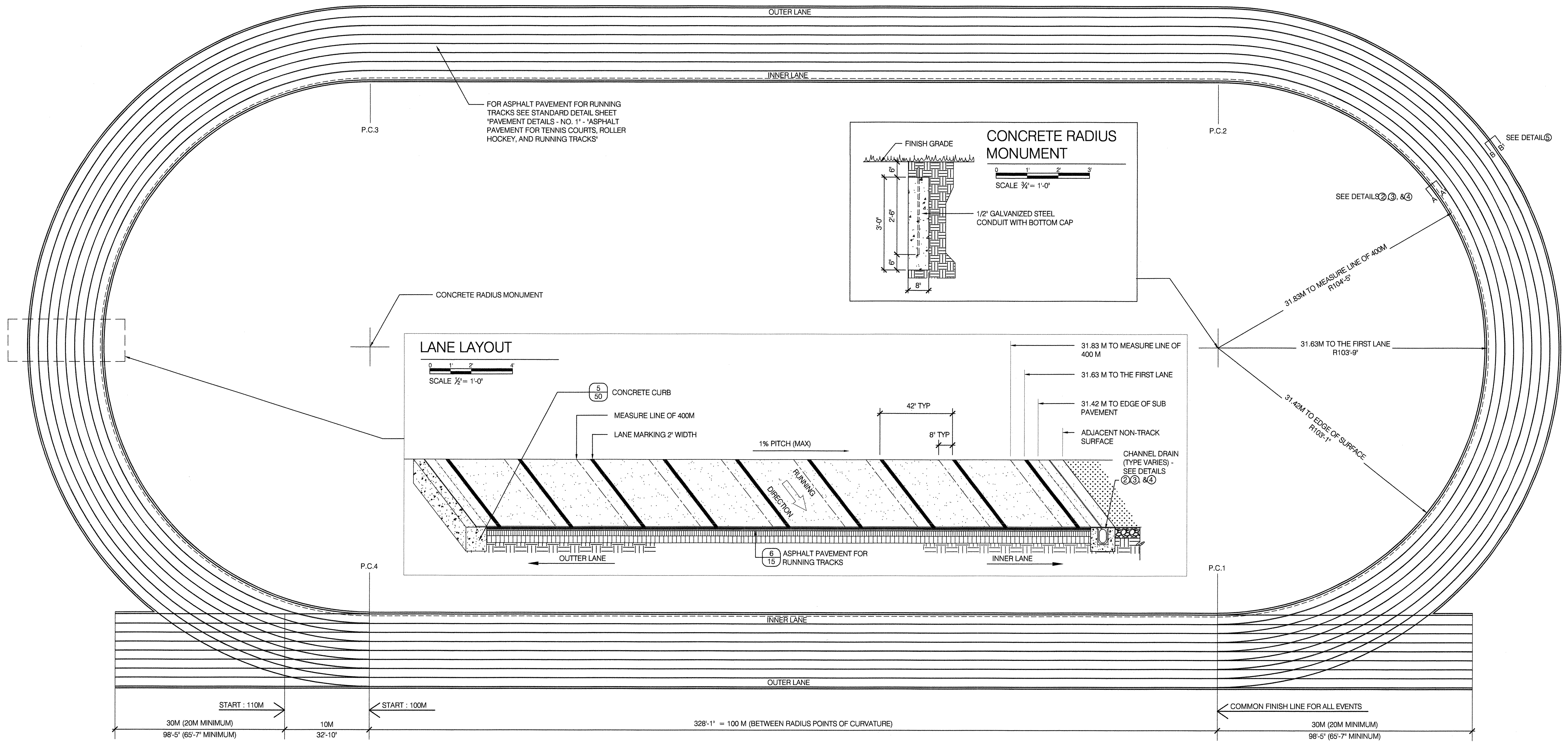


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DRAWING TITLE
BOCCIE COURT LAYOUT AND DETAILS



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APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 49
DATE 09-01-2020	SCALE AS SHOWN



GENERAL NOTES:

- FOR ASPHALT PAVEMENT FOR RUNNING TRACKS SEE STANDARD DETAIL SHEET "PAVEMENT DETAILS - NO. 1."
- FOR EXPANSION JOINT SEE STANDARD DETAIL SHEET "CURBS AND PIERS", DETAIL (9)
- FOR CHANNEL DRAIN DIMENSIONS SEE SPECIFICATIONS.

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FLUSHING, NEW YORK 11368

NYC Parks

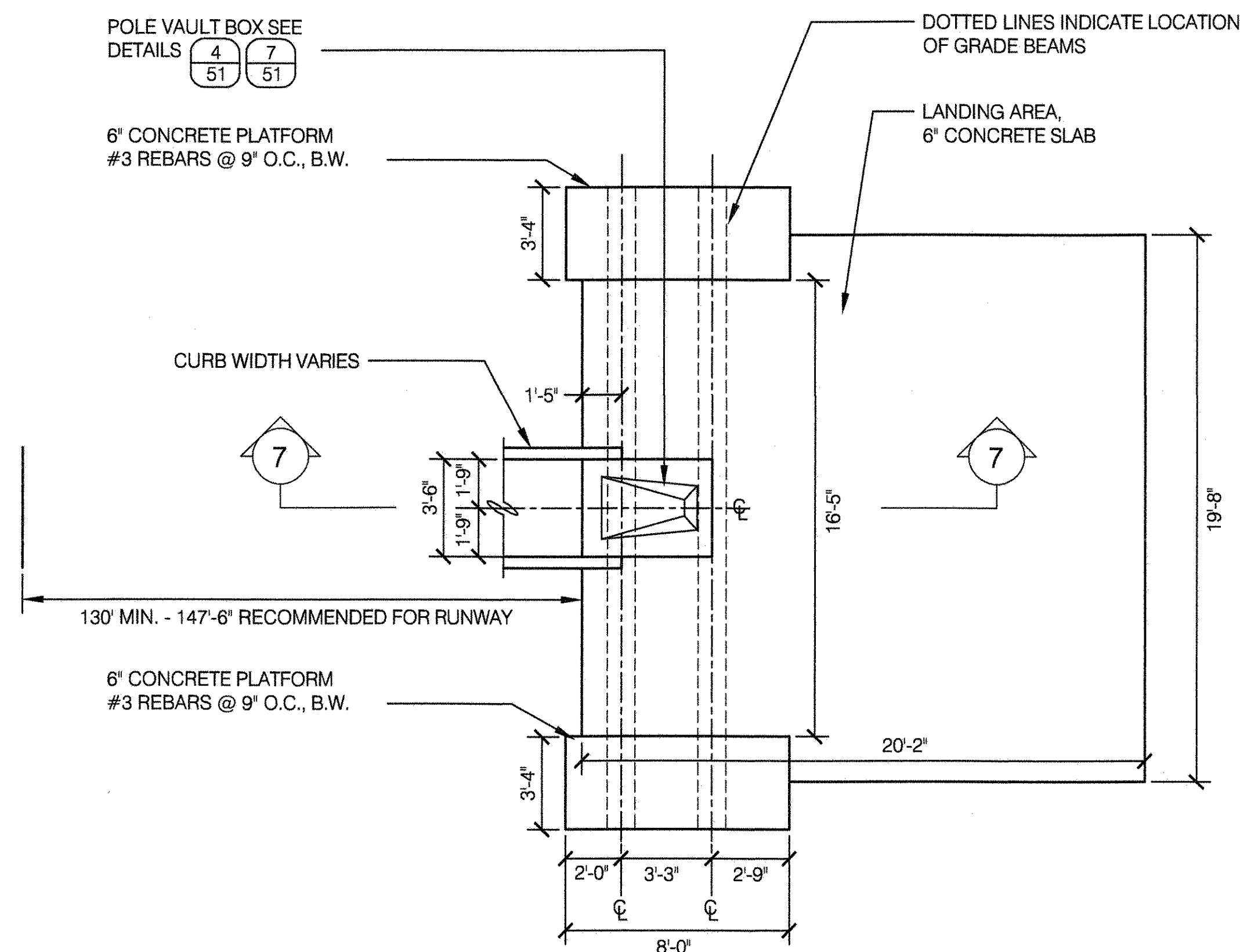
COPYRIGHT © 2020 NYC PARKS & RECREATION
DRAWING TITLE
RUNNING TRACK AND FIELD

DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY R. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 50
DATE 09-01-2020	SCALE AS SHOWN

STATE OF NEW YORK
REGISTERED PROFESSIONAL ENGINEER
091042

1 POLE VAULT - PLAN

SCALE 1/4" = 1'-0"



2 DISCUS / SHOT PUT CIRCLE - PLAN

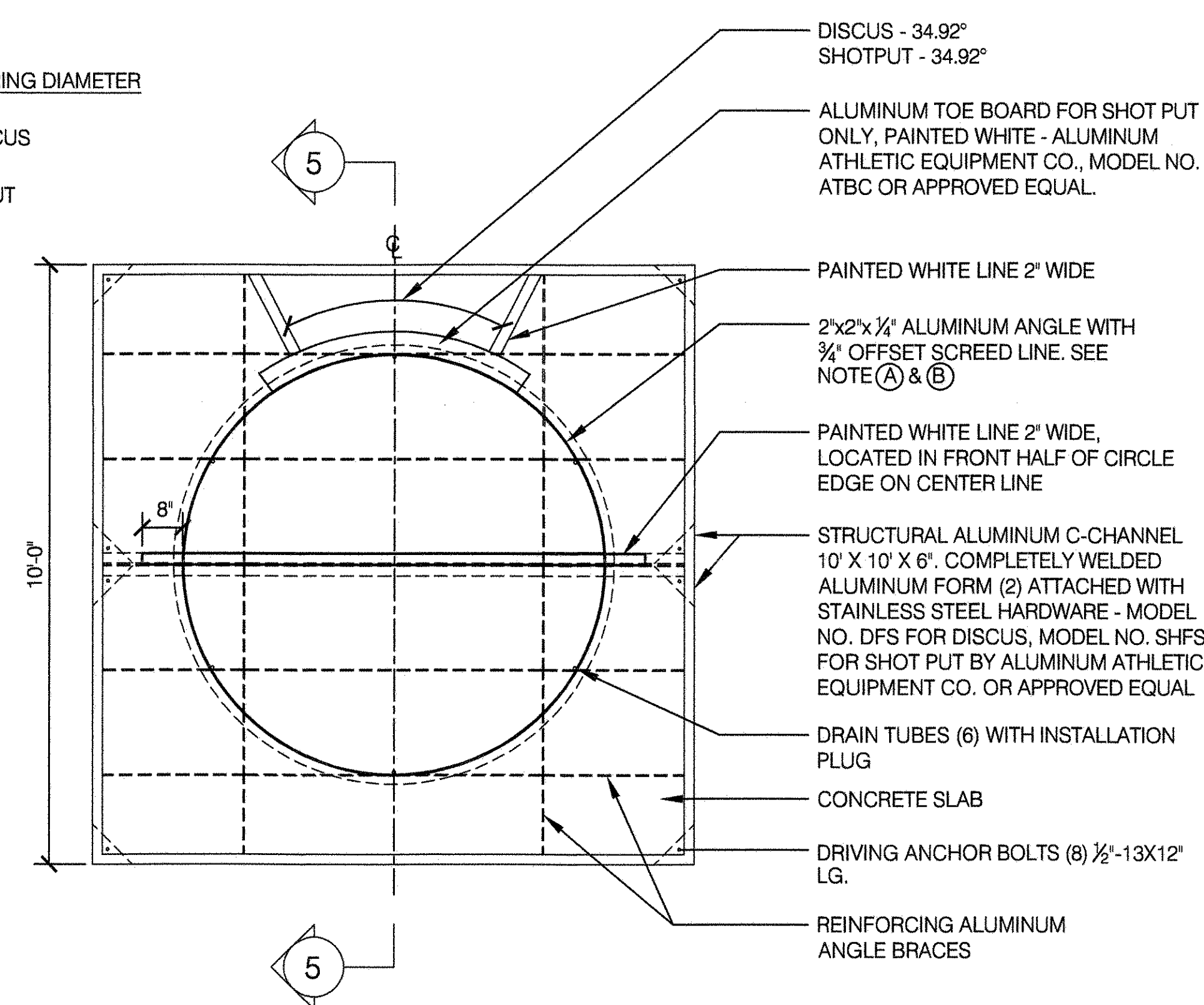
SCALE 1/2" = 1'-0"

NOTE:

ALUMINUM 'L' SHAPED RING DIAMETER

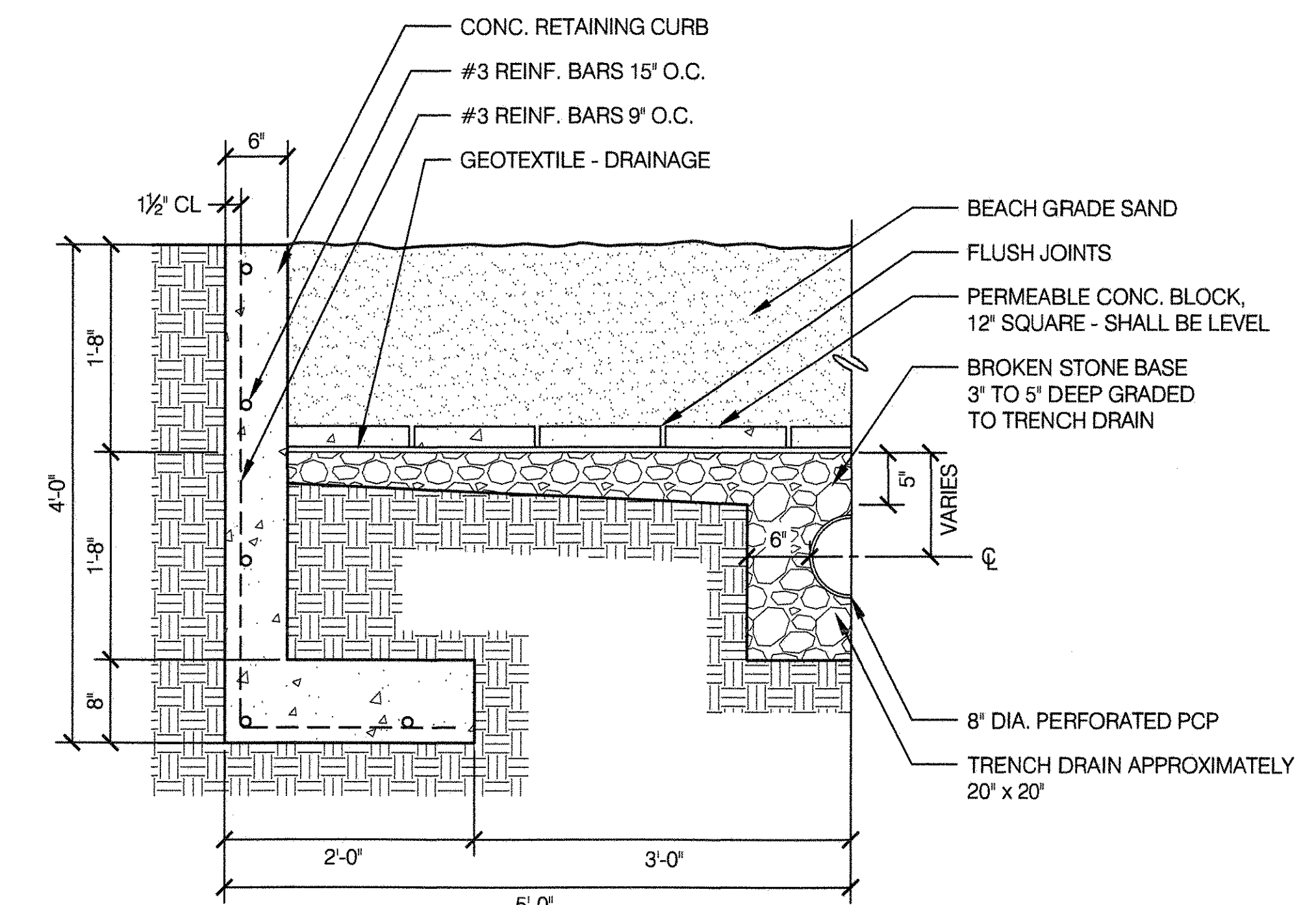
(A) 8'-2 1/2" I.D. FOR DISCUS

(B) 7'-0" I.D. FOR SHOT PUT



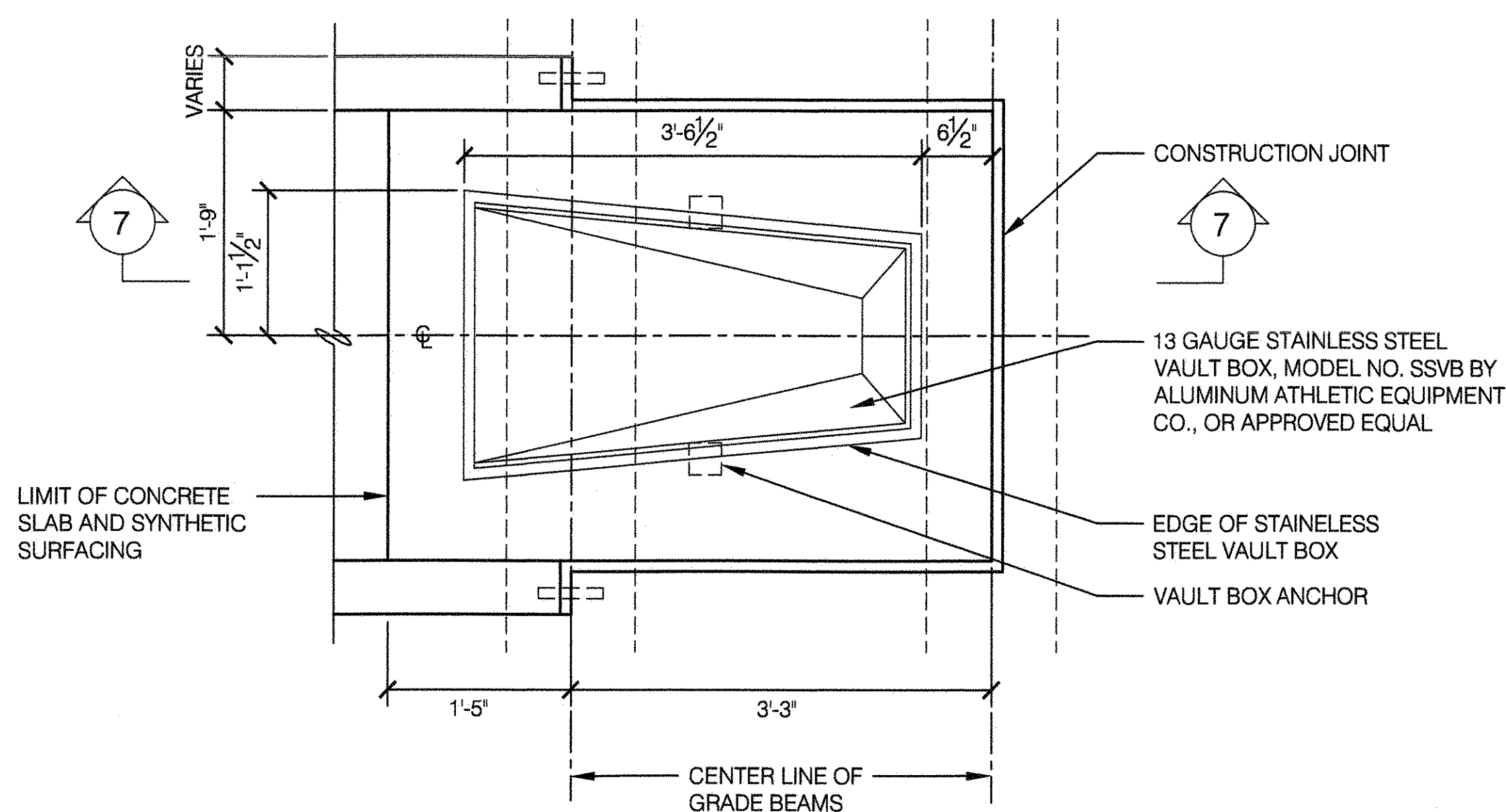
3 SAND LANDING AREA - SECTION

SCALE 1" = 1'-0"



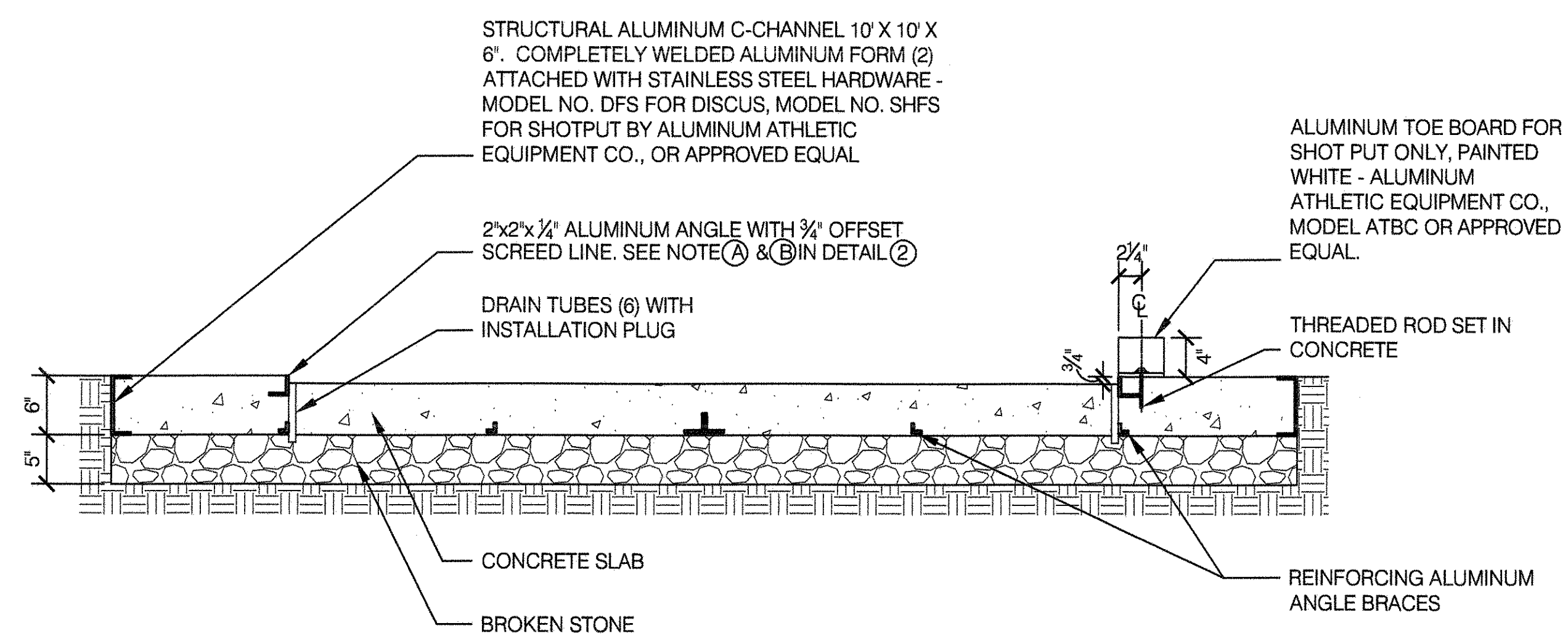
4 POLE VAULT BOX - PLAN

SCALE 1" = 1'-0"



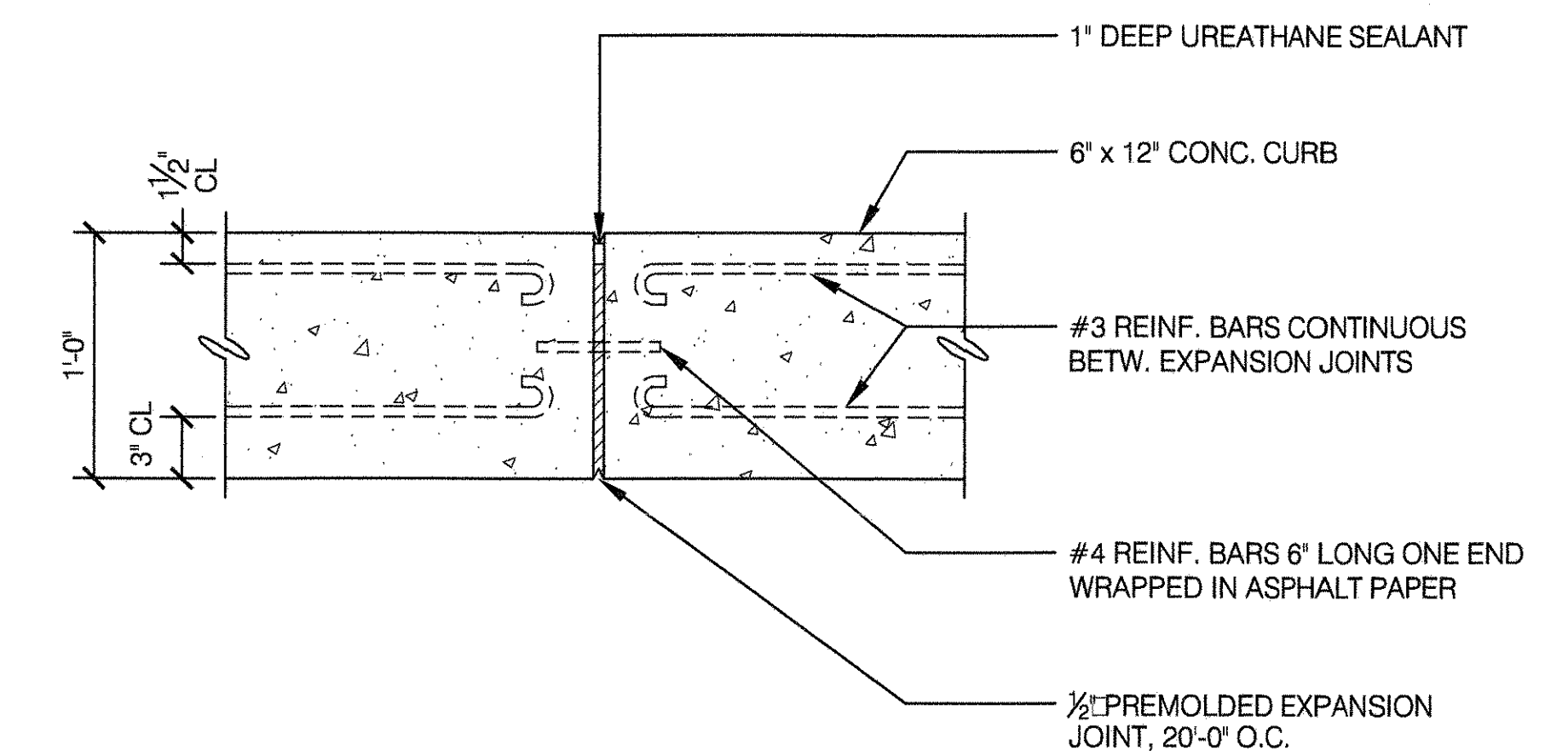
5 DISCUS / SHOT PUT CIRCLE - SECTION

SCALE 1" = 1'-0"



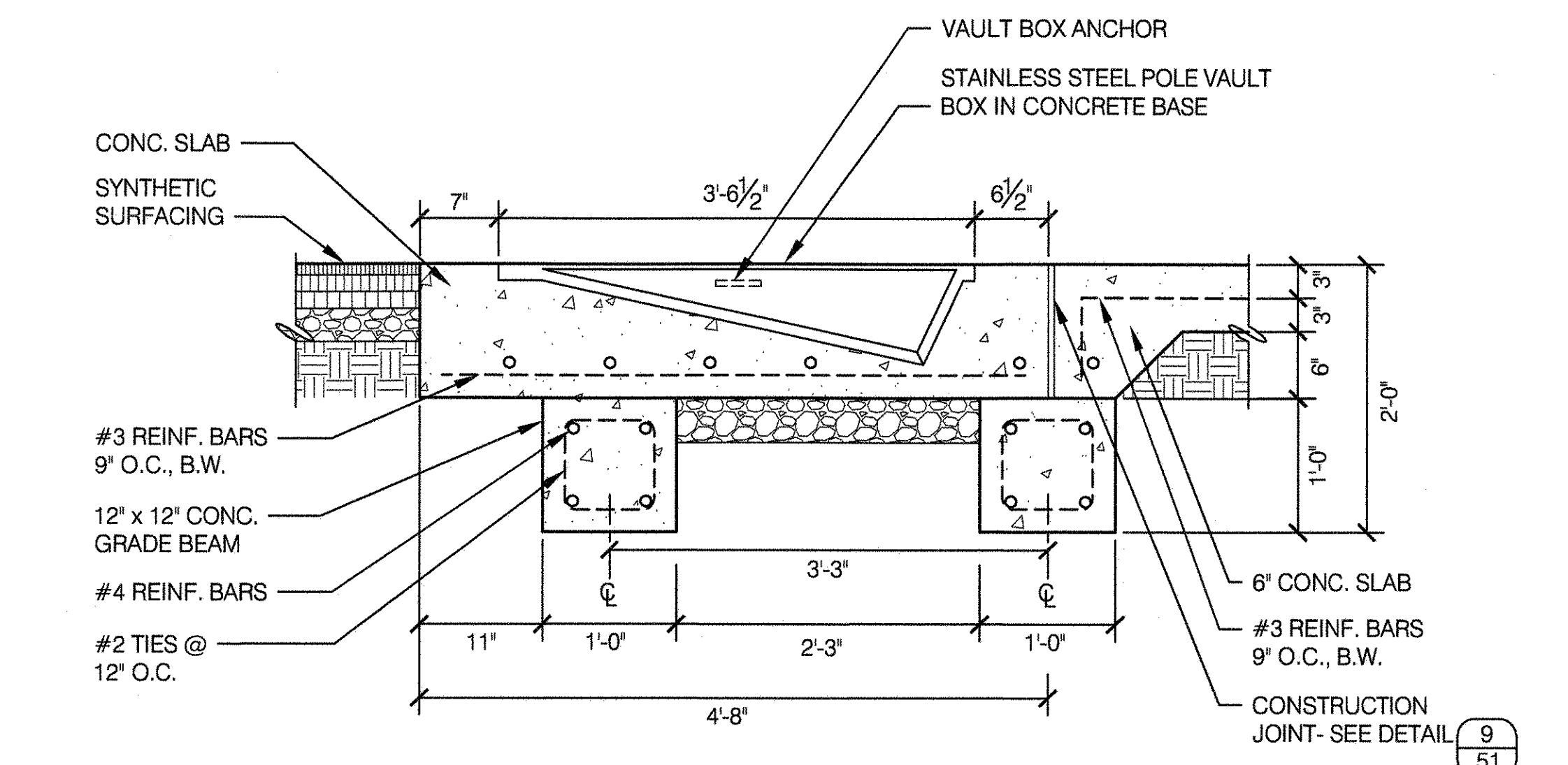
6 CONCRETE CURB - DETAIL

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



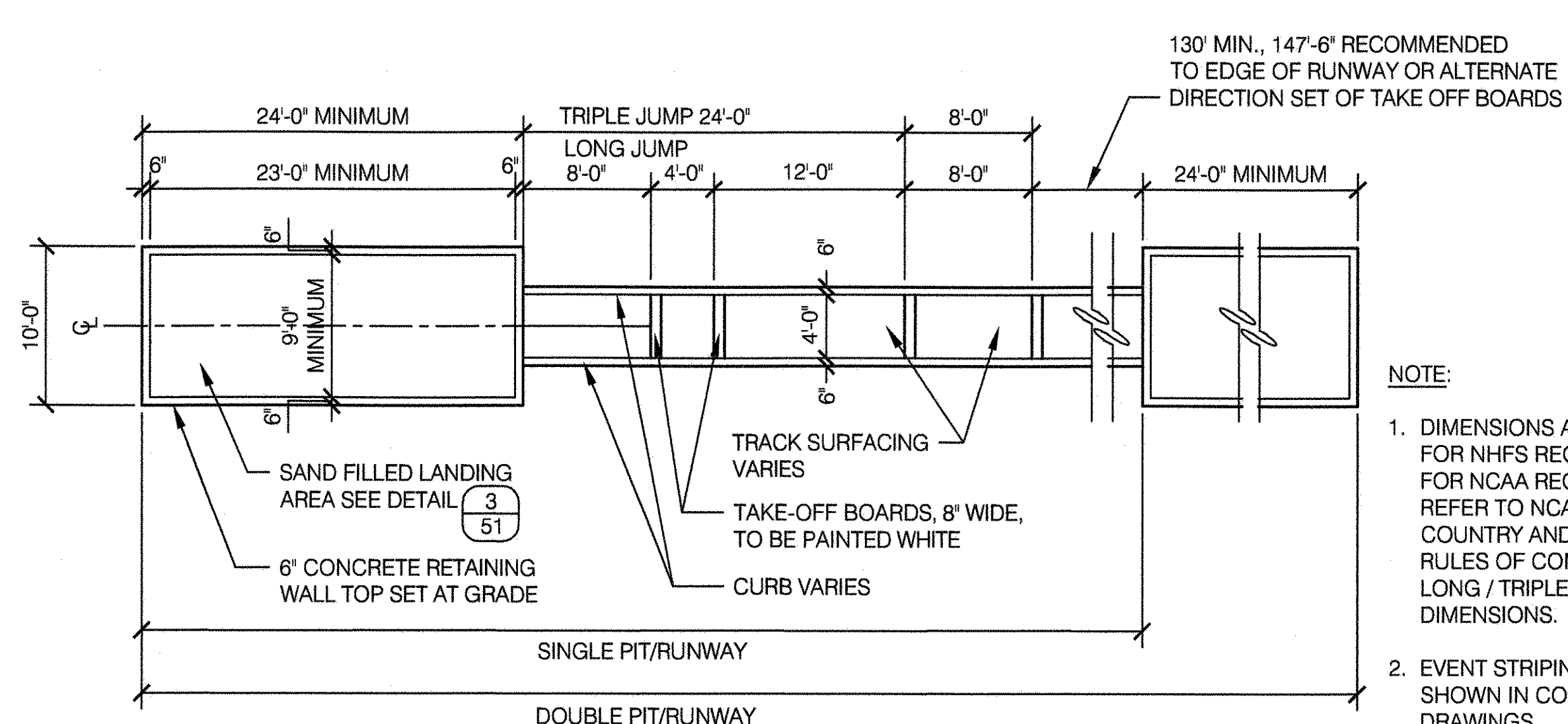
7 POLE VAULT BOX - SECTION

SCALE 1" = 1'-0"



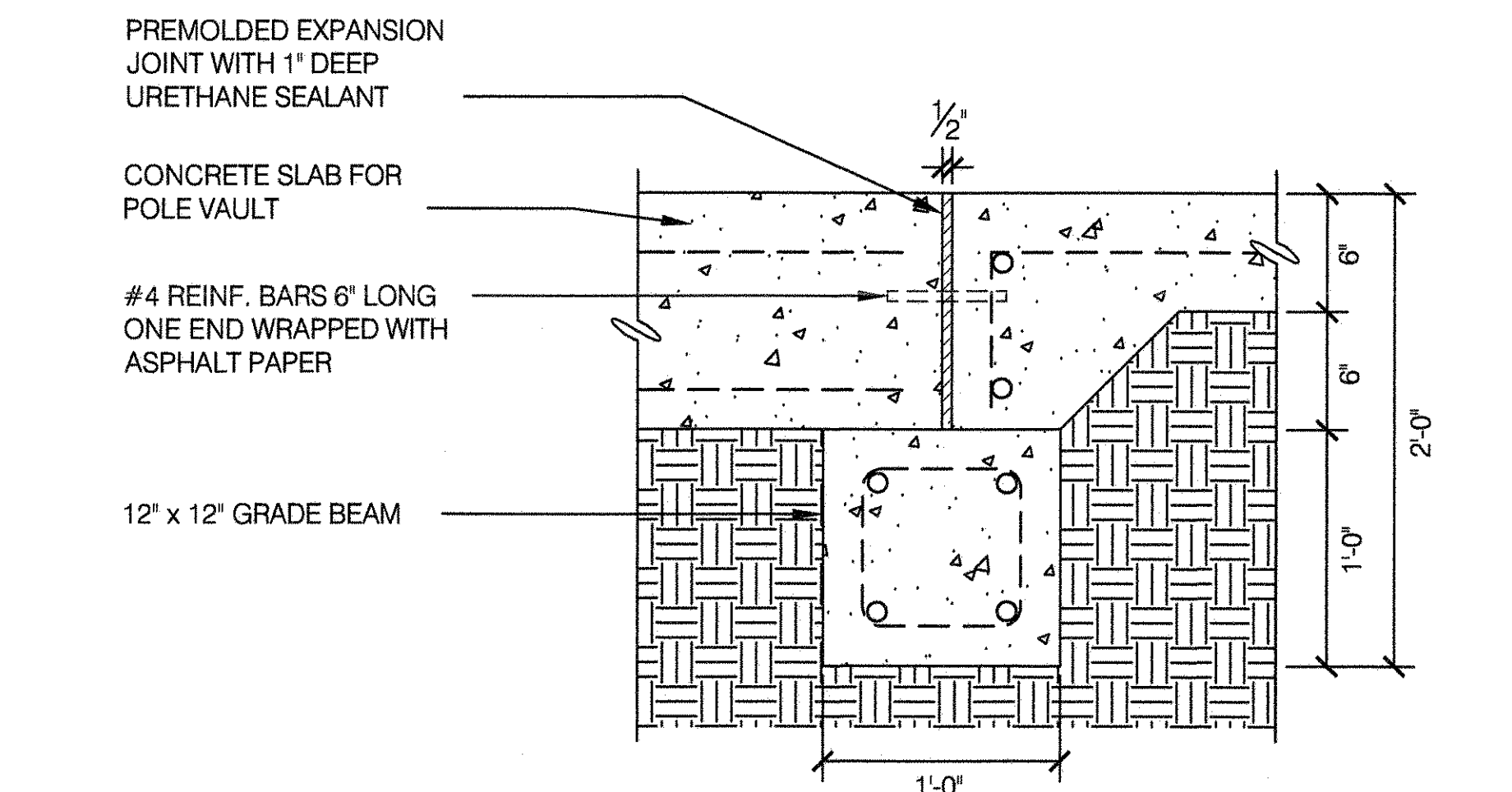
8 LONG JUMP / TRIPLE JUMP - PLAN

SCALE 1/2" = 1'-0"



9 CONCRETE CURB - DETAIL

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



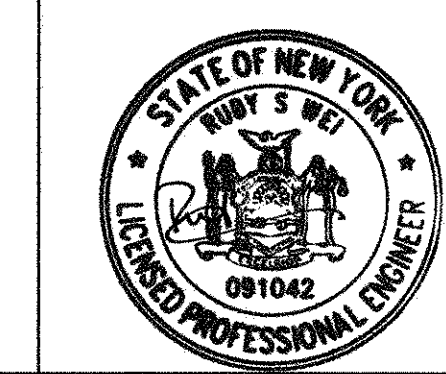
NOTE:

- DIMENSIONS AS SHOWN ARE FOR NIHS REGULATIONS. FOR NCAA REGULATIONS, REFER TO NCAA 'CROSS COUNTRY AND TRACK FIELD RULES OF COMPETITION' FOR LONG / TRIPLE JUMP - PLAN DIMENSIONS.
- EVENT STRIPING SHALL BE AS SHOWN IN CONTRACT DRAWINGS.



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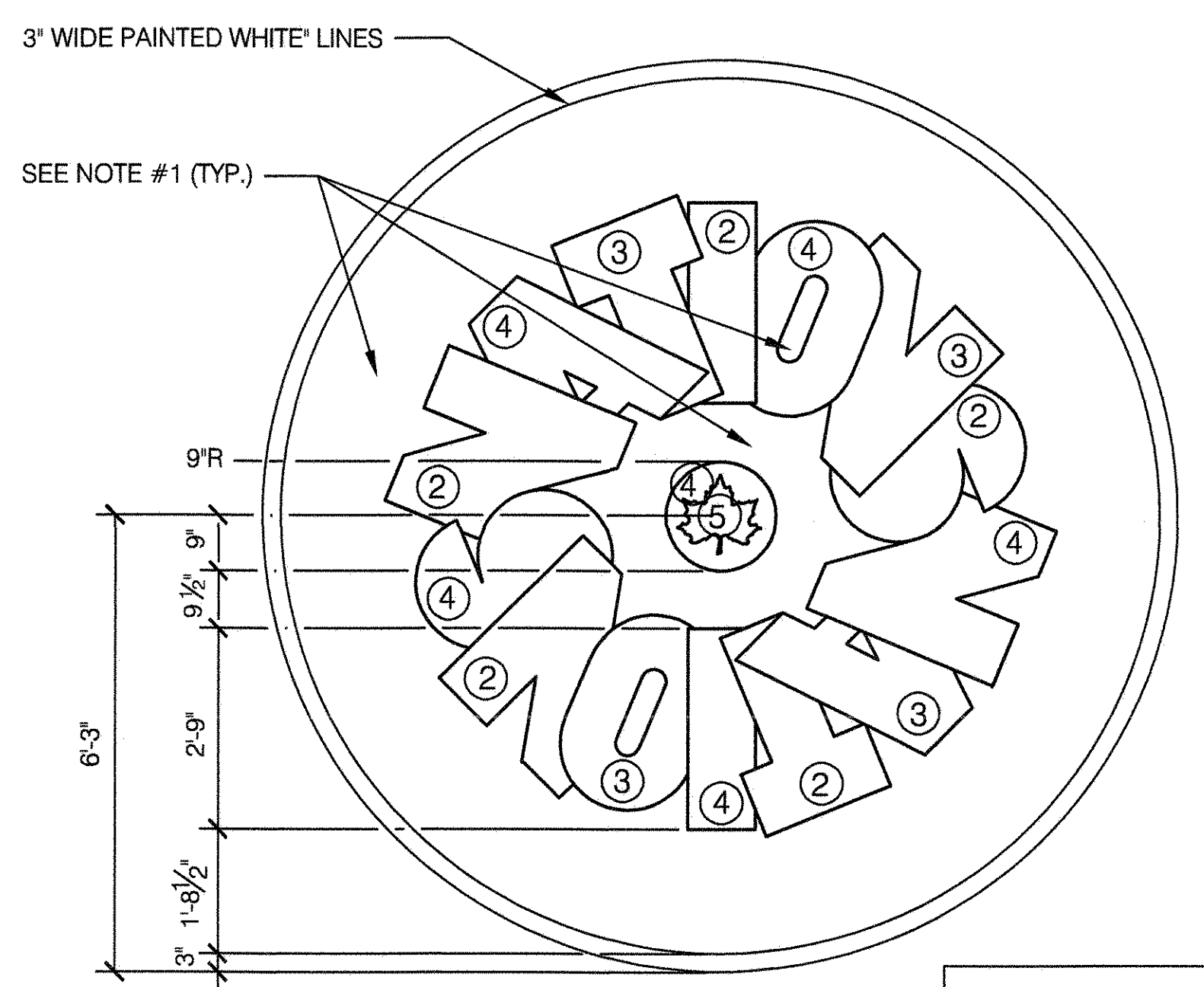
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DRAWING TITLE
FIELD EVENTS



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APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 51
	SCALE AS SHOWN

1 NATIONS

SCALE 1/2" = 1'-0"

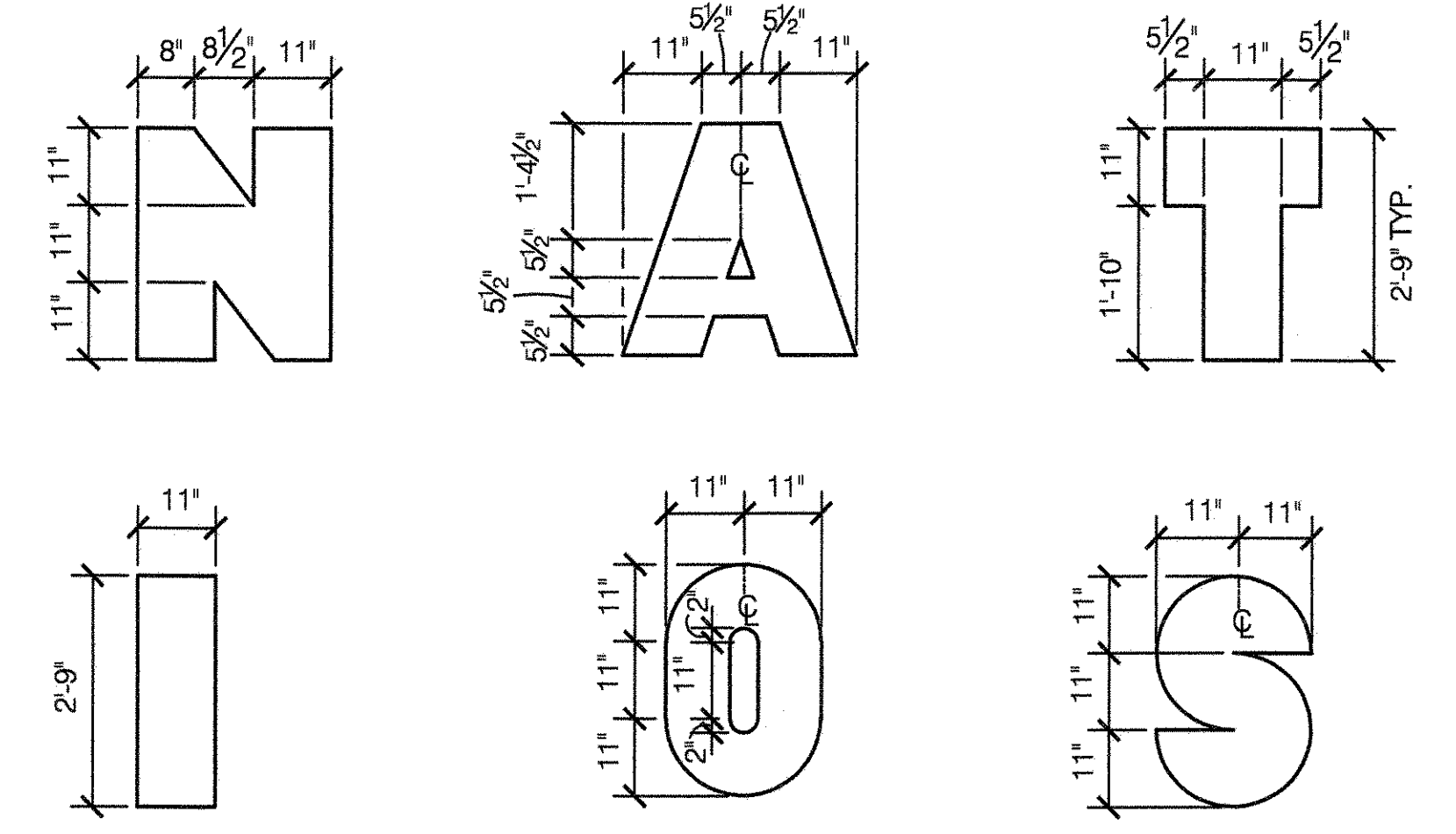


LINE PAINT COLORS

- ① WHITE
- ② RED
- ③ BLUE
- ④ YELLOW
- ⑤ GREEN

- NOTES:**
- BACKGROUND COLOR IS TO BE COLOR SEAL COAT 'LIGHT GREEN' OR AS DESIGNATED BY THE DESIGNER.
 - CONTRACTOR SHALL SUBMIT PAINT SAMPLES FOR APPROVAL PRIOR TO PAINTING.
 - ALL NUMERALS ARE TO BE PATTERNED AFTER 'HELVETICA MEDIUM' STYLE. SAMPLE TO BE SUBMITTED TO D.P.R. PRIOR TO PAINTING.

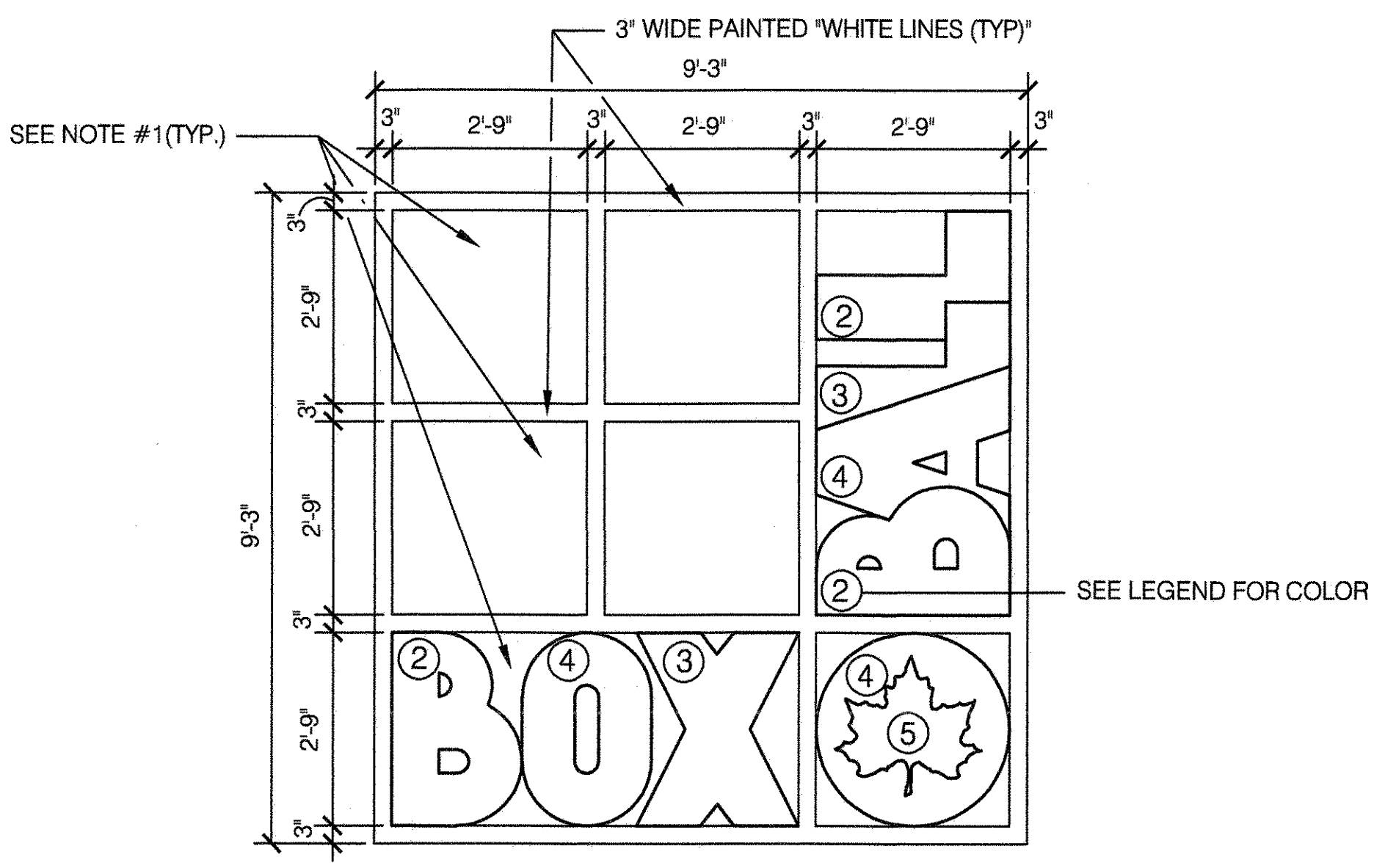
A MINIMUM OF 25'-0" ON ALL SIDES IS SUGGESTED FOR PLAYING THIS GAME



DIMENSIONS FOR LETTERS

2 BOX BALL

SCALE 1/2" = 1'-0"

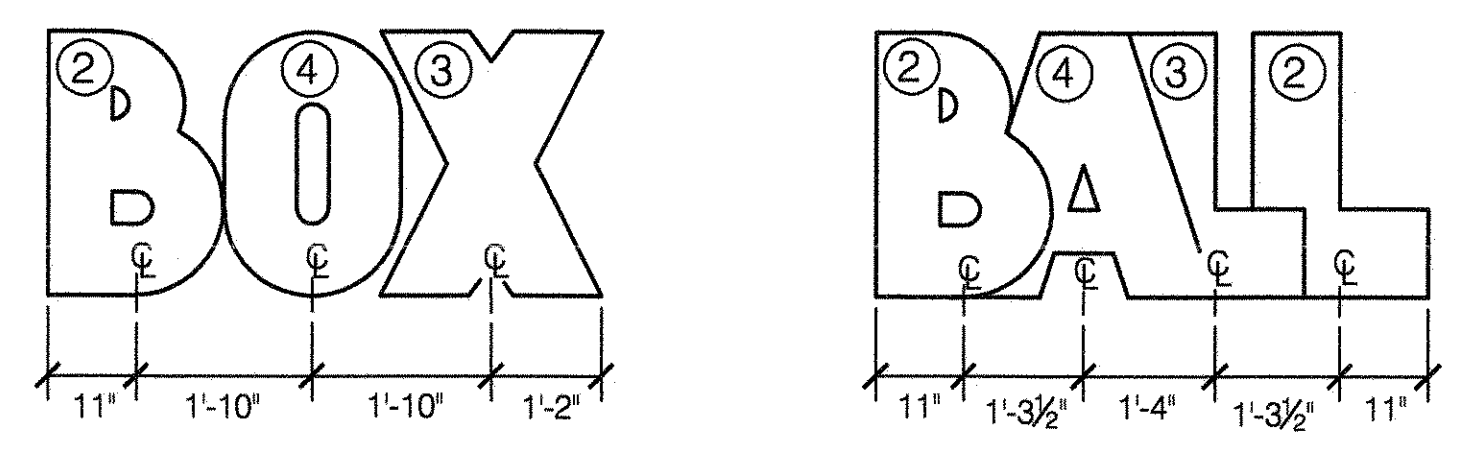


LINE PAINT COLORS

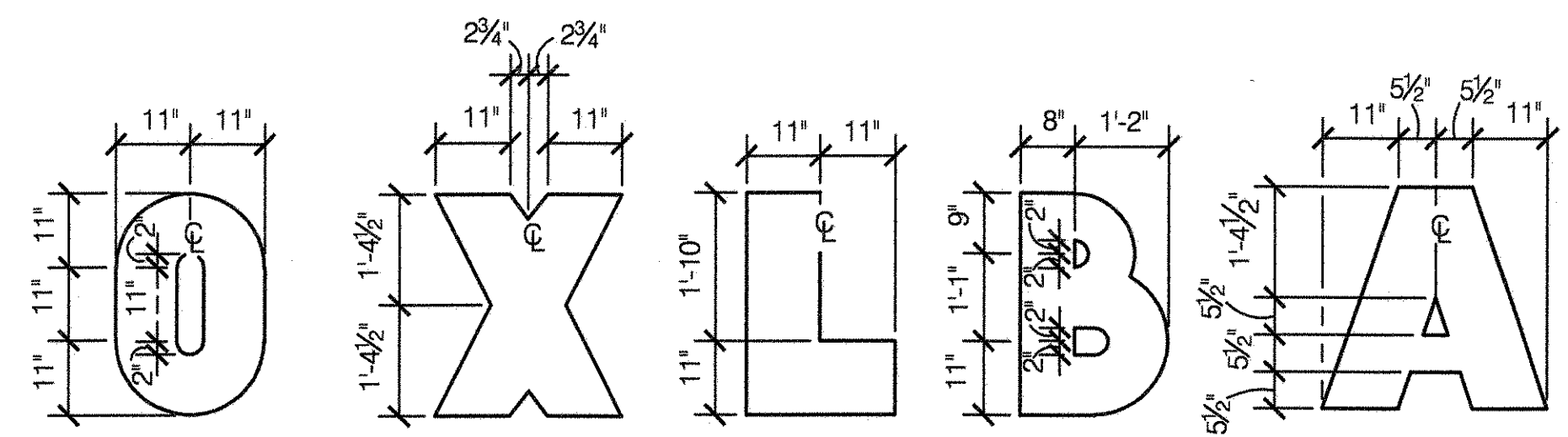
- ① WHITE
- ② RED
- ③ BLUE
- ④ YELLOW
- ⑤ GREEN

- NOTES:**
- BACKGROUND COLOR IS TO BE COLOR SEAL COAT 'LIGHT GREEN' OR AS DESIGNATED BY THE DESIGNER.
 - CONTRACTOR SHALL SUBMIT PAINT SAMPLES FOR APPROVAL PRIOR TO PAINTING.
 - ALL NUMERALS ARE TO BE PATTERNED AFTER 'HELVETICA MEDIUM' STYLE. SAMPLE TO BE SUBMITTED TO D.P.R. PRIOR TO PAINTING.

A MINIMUM OF 25'-0" ON ALL SIDES IS SUGGESTED FOR PLAYING THIS GAME



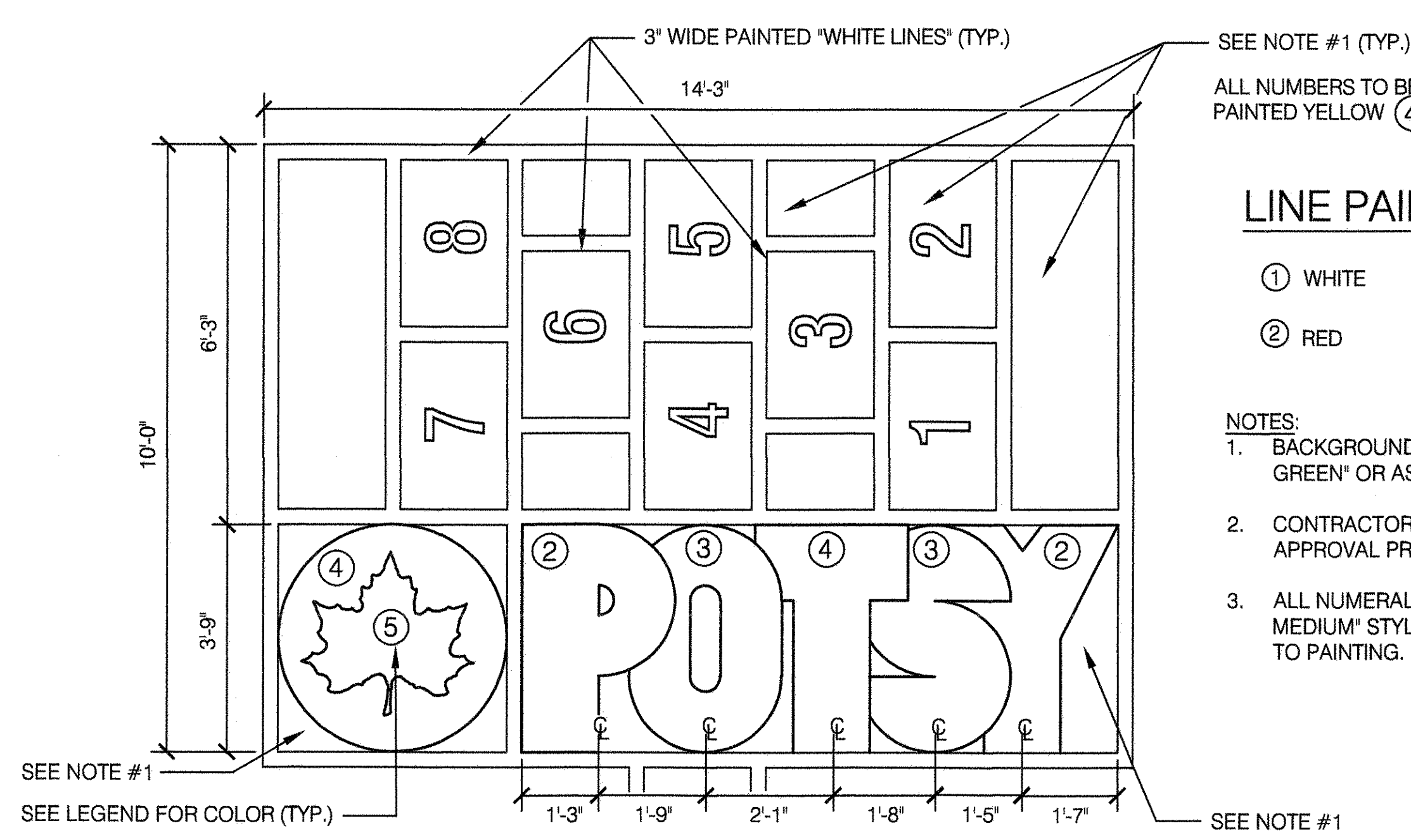
LAYOUT OF TEXT



DIMENSIONS FOR LETTERS

3 POTSY

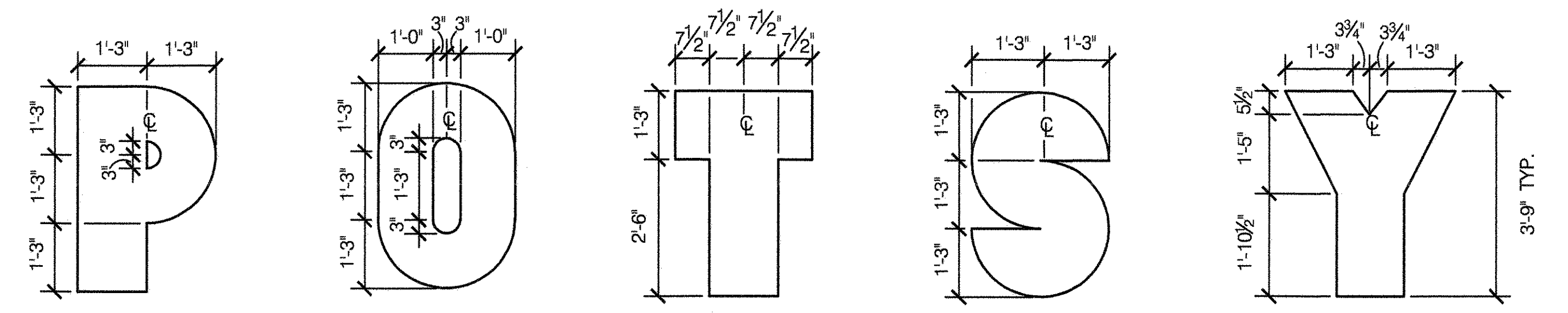
SCALE 1/2" = 1'-0"



LINE PAINT COLORS

- ① WHITE
- ② RED
- ③ BLUE
- ④ YELLOW
- ⑤ GREEN

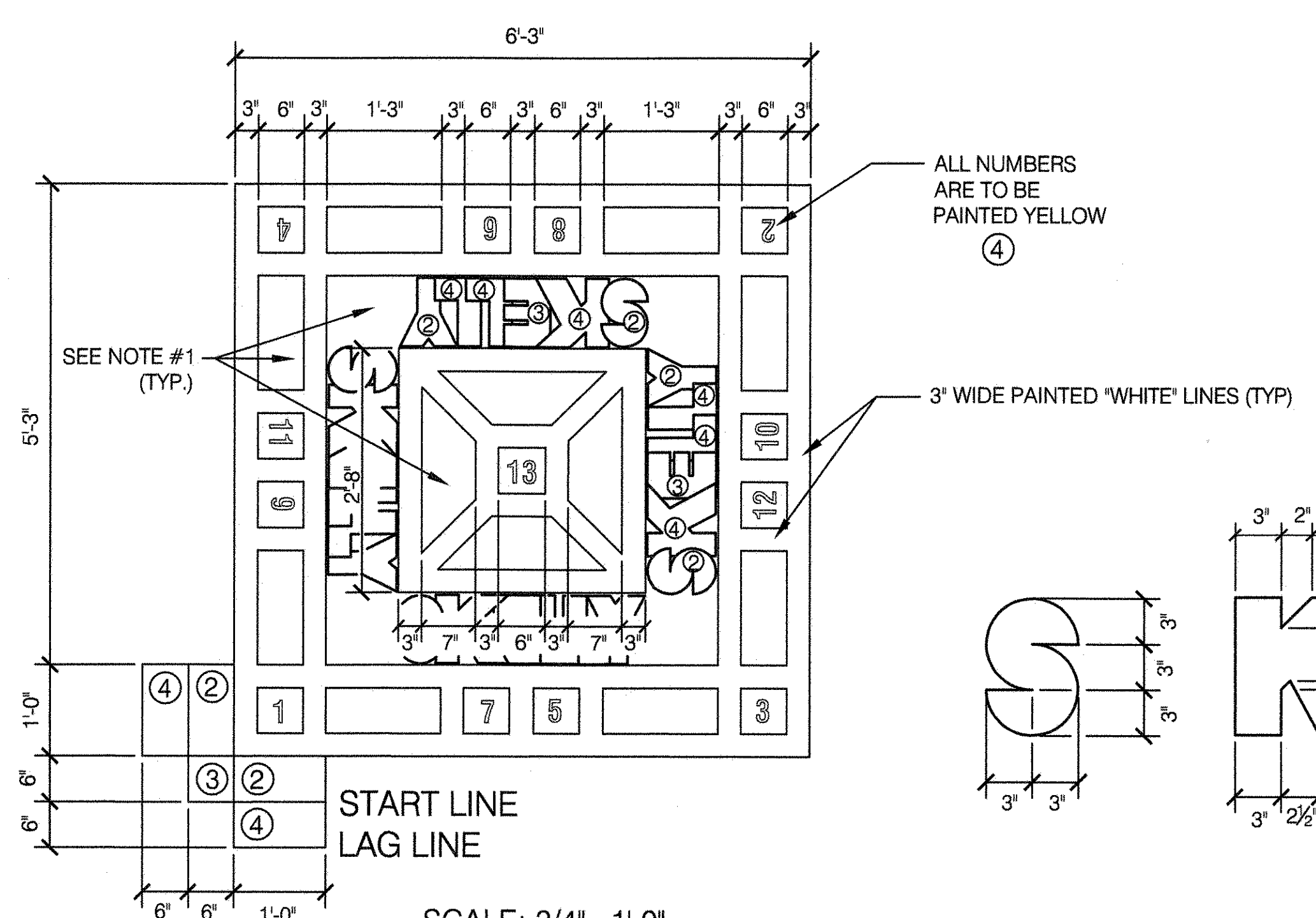
- NOTES:**
- BACKGROUND COLOR IS TO BE COLOR SEAL COAT 'LIGHT GREEN' OR AS DESIGNATED BY THE DESIGNER.
 - CONTRACTOR SHALL SUBMIT PAINT SAMPLES FOR APPROVAL PRIOR TO PAINTING.
 - ALL NUMERALS ARE TO BE PATTERNED AFTER 'HELVETICA MEDIUM' STYLE. SAMPLE TO BE SUBMITTED TO D.P.R. PRIOR TO PAINTING.



DIMENSIONS FOR LETTERS

4 SKELLY

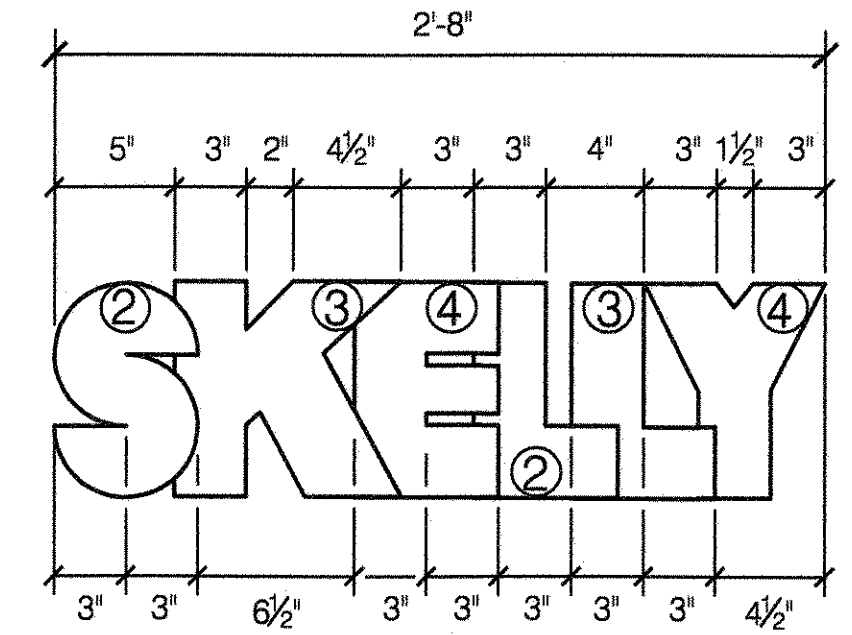
SCALE: AS SHOWN



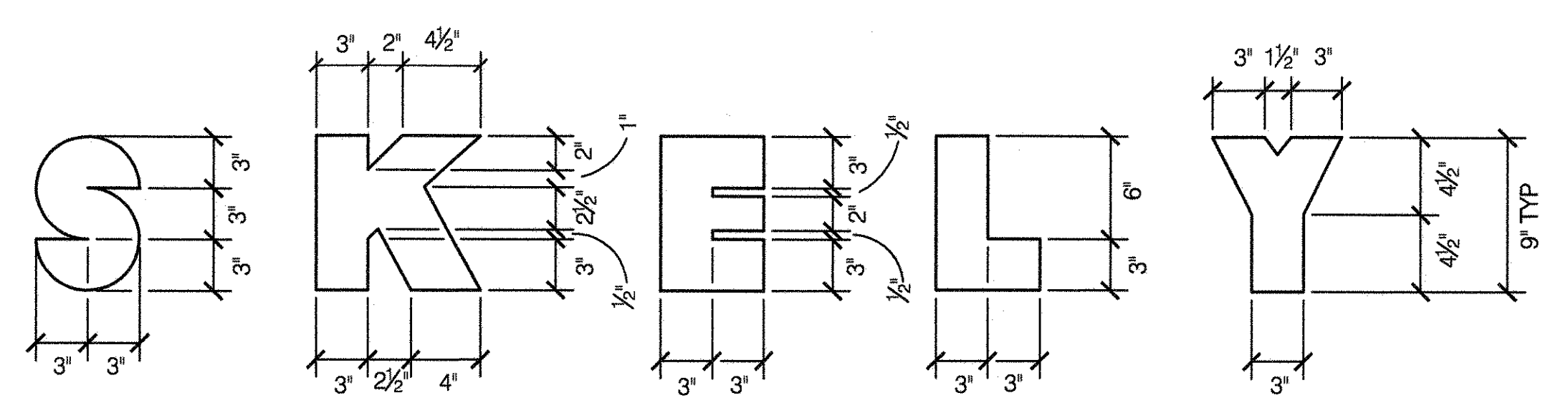
LINE PAINT COLORS

- ① WHITE
- ② RED
- ③ BLUE
- ④ YELLOW

- NOTES:**
- BACKGROUND COLOR IS TO BE COLOR SEAL COAT 'LIGHT GREEN' OR AS DESIGNATED BY THE DESIGNER.
 - CONTRACTOR SHALL SUBMIT PAINT SAMPLES FOR APPROVAL PRIOR TO PAINTING.
 - ALL NUMERALS ARE TO BE PATTERNED AFTER 'HELVETICA MEDIUM' STYLE. SAMPLE TO BE SUBMITTED TO D.P.R. PRIOR TO PAINTING.



LAYOUT OF TEXT
SCALE: 1/2" = 1'-0"



DIMENSIONS FOR LETTERS
SCALE: 1/2" = 1'-0"

NOTES:

- LINE PAINT SHALL BE AS MANUFACTURED BY CALIFORNIA PRODUCTS CORP, OR APPROVED EQUAL
- COLOR SEAL COAT SYSTEM CONSISTS OF MULTIPLE RESURFACER COATS, TWO (2) INTERMEDIATE COATS AND TWO (2) WEARING COATS, COLOR 'LIGHT GREEN', OR AS SPECIFIED BY DESIGNER. ALL AS MANUFACTURED BY CALIFORNIA PRODUCTS CORP., OR APPROVED EQUAL. SEE SPEC. FOR ADDITIONAL DETAILS.



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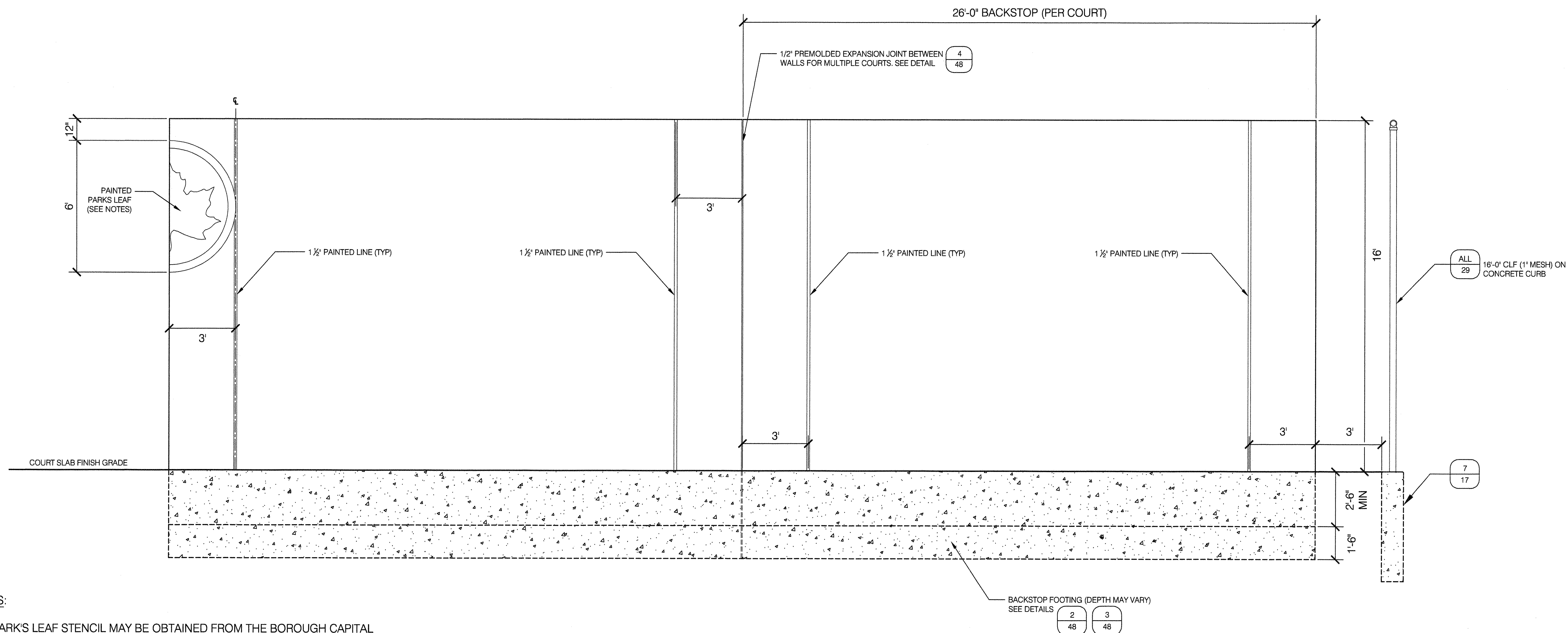
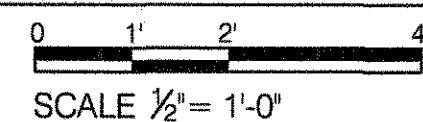
DRAWING TITLE
PAINTED GAME LAYOUT



DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
DATE 09-01-2020	SHEET NO. 52
	SCALE AS SHOWN

1

PAINTED PARK LEAF - HANDBALL BACKSTOP



NOTES:

1. PARK'S LEAF STENCIL MAY BE OBTAINED FROM THE BOROUGH CAPITAL LIAISON.
2. PLAYING LINES SHALL BE PAINTED FIRST BEFORE PAINTING OF PARK'S LEAF.
3. COLOR OF PARK'S LEAF SHALL BE SHERWIN WILLIAM SW6921 (ELECTRIC LIME) OR APPROVED EQUAL, COLOR MATCHING PMS 3868C.
4. ONLY ONE LEAF IS REQUIRED FOR EACH SIDE OF THE WALL WHEN THERE ARE MULTIPLE ATTACHED COURTS.
5. SEE SHEET 48 FOR REINFORCEMENT AND FOOTING DETAILS.



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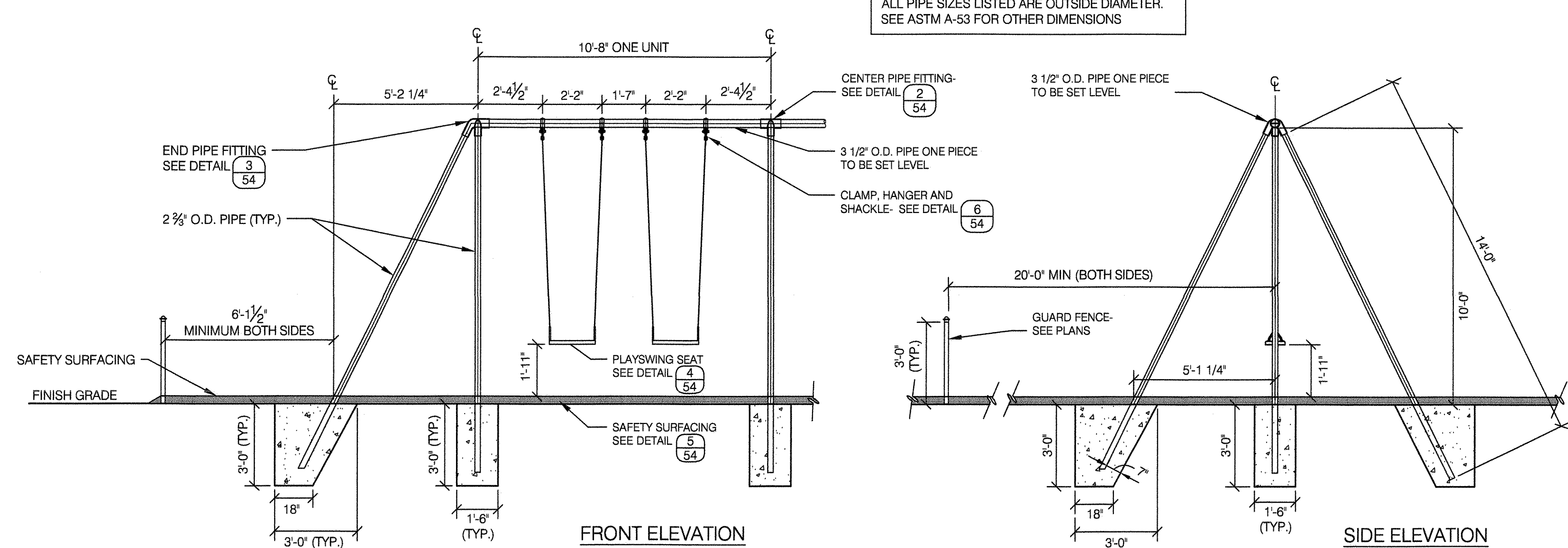
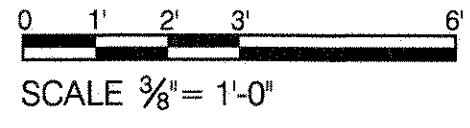
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DRAWING TITLE PAINTED PARK LEAF - HANDBALL BACKSTOP	
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APPROVED BY	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 53
DATE 09-01-2020	SCALE AS SHOWN



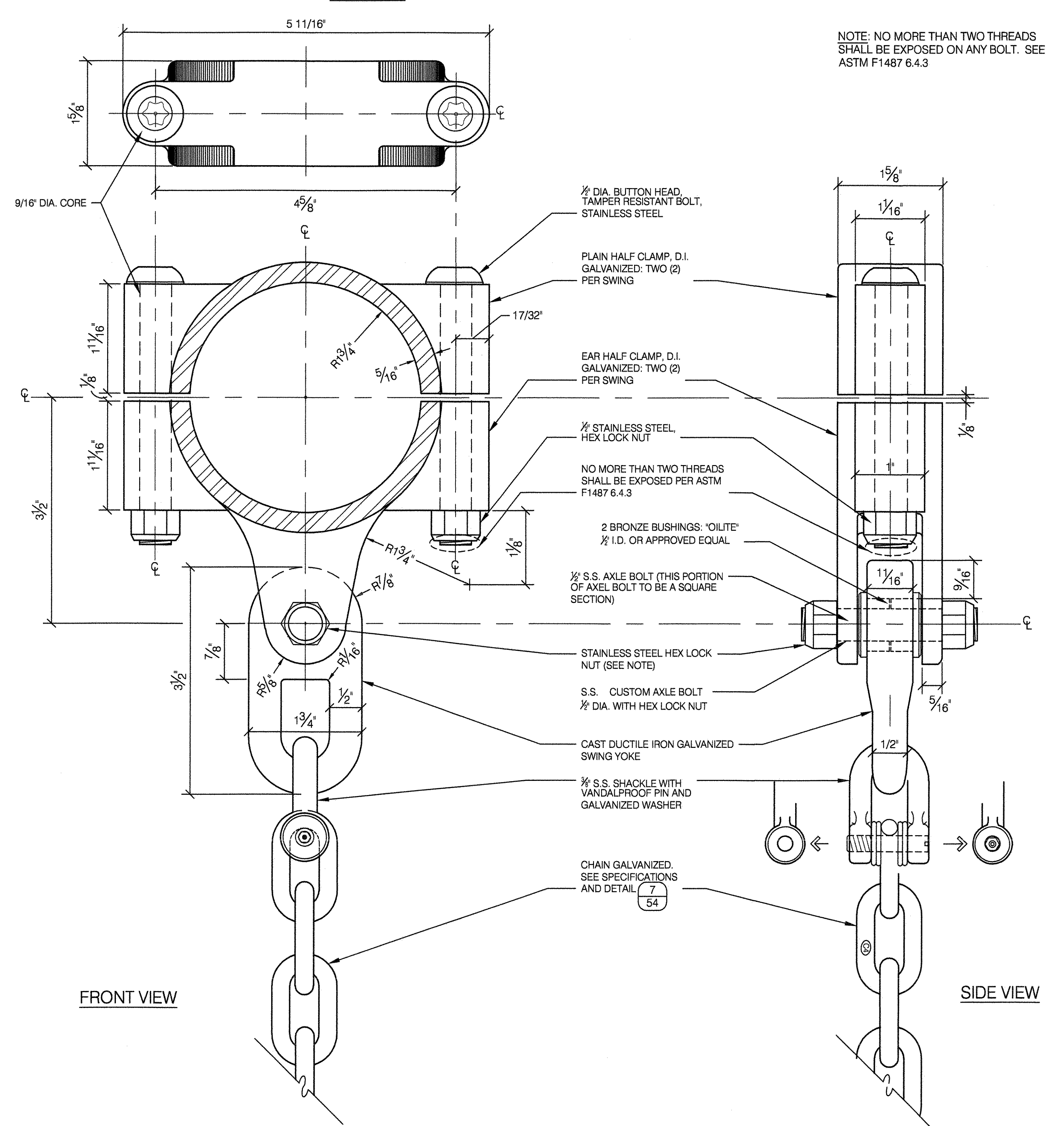
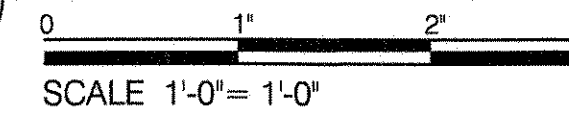
STATE OF NEW YORK
RUBY WEI
LICENSED PROFESSIONAL ENGINEER
091042

1 PLAY SWING FRAME 10'-0" HIGH



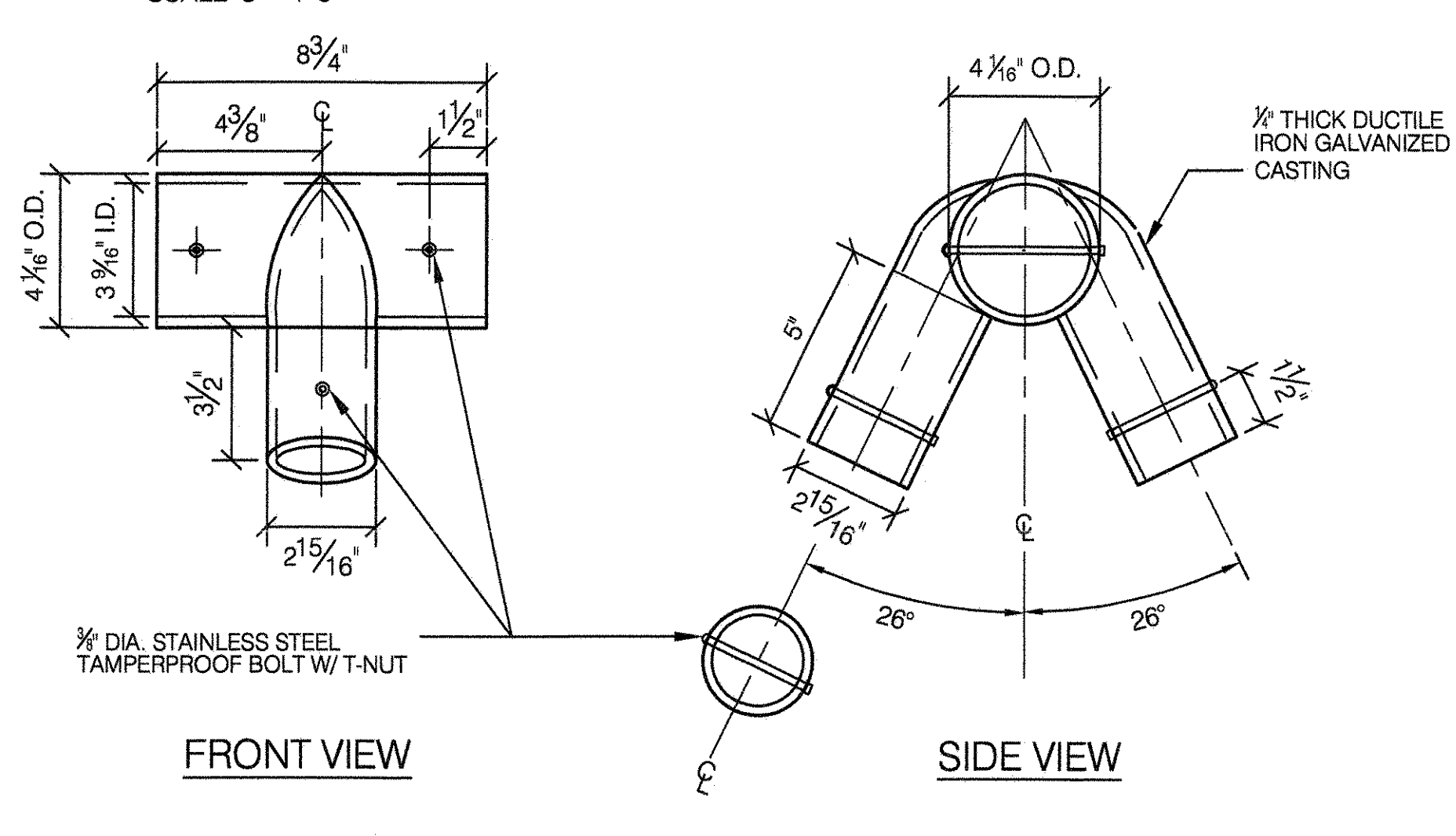
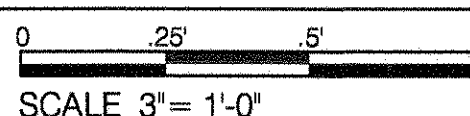
ALL PIPE SIZES LISTED ARE OUTSIDE DIAMETER. SEE ASTM A-53 FOR OTHER DIMENSIONS

6 CLAMP, HANGER AND SHACKLE

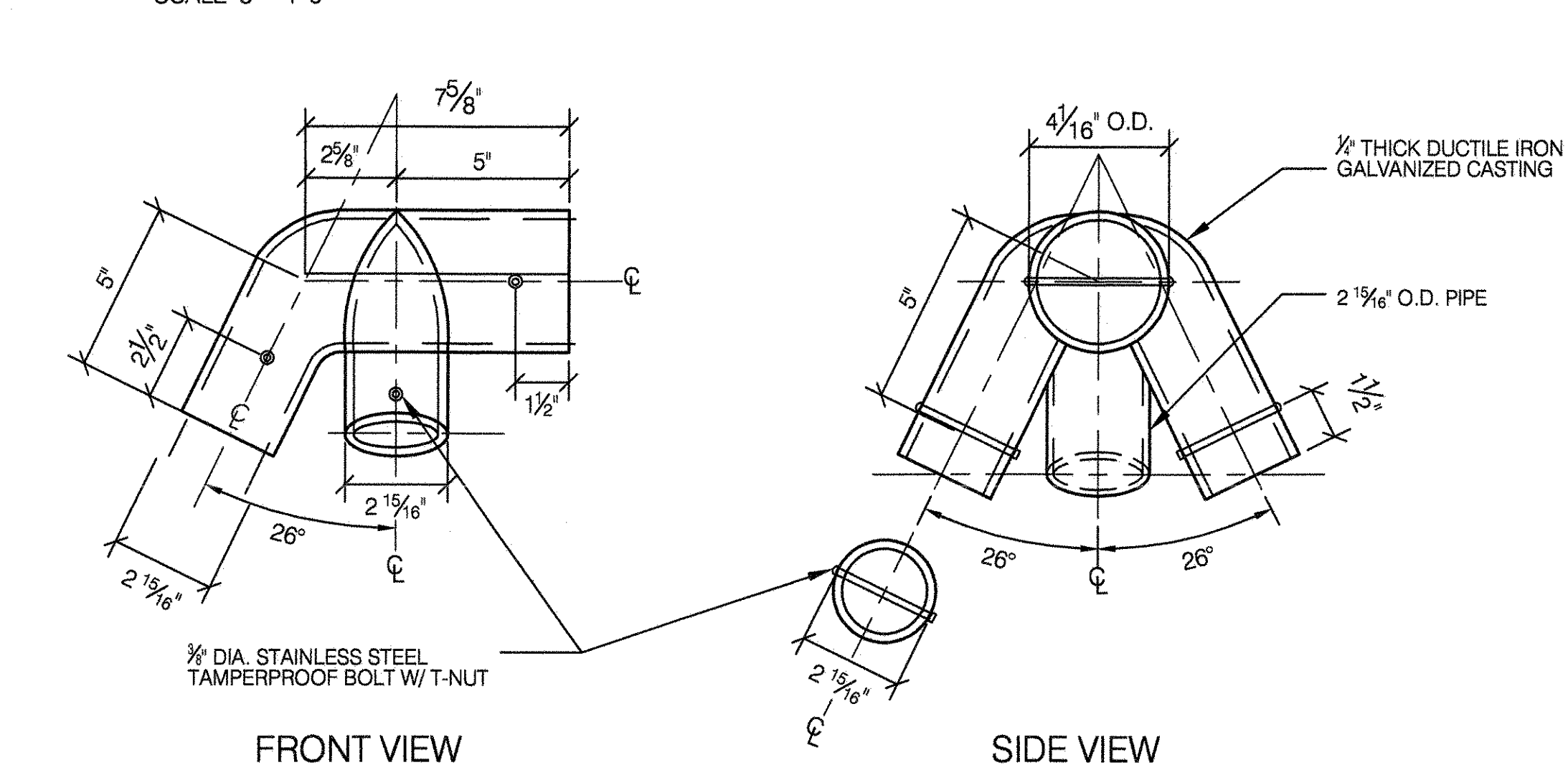
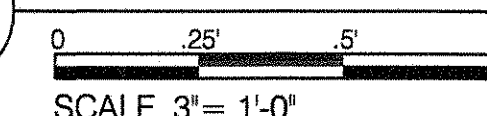


NOTE: NO MORE THAN TWO THREADS SHALL BE EXPOSED ON ANY BOLT. SEE ASTM F1487 6.4.3

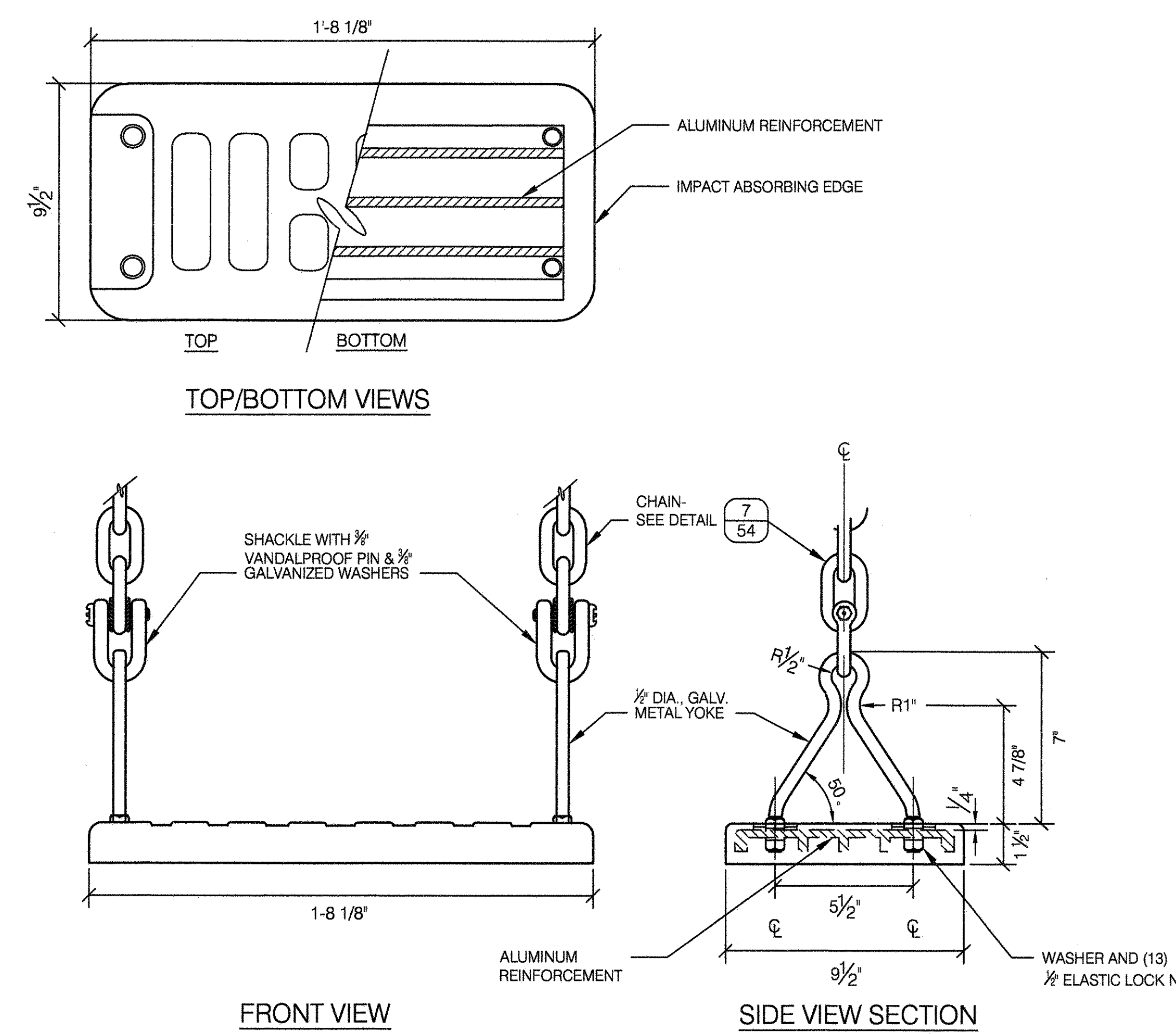
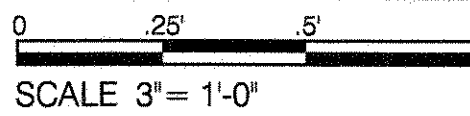
2 CENTER PIPE FITTING, D.I. GALVANIZED



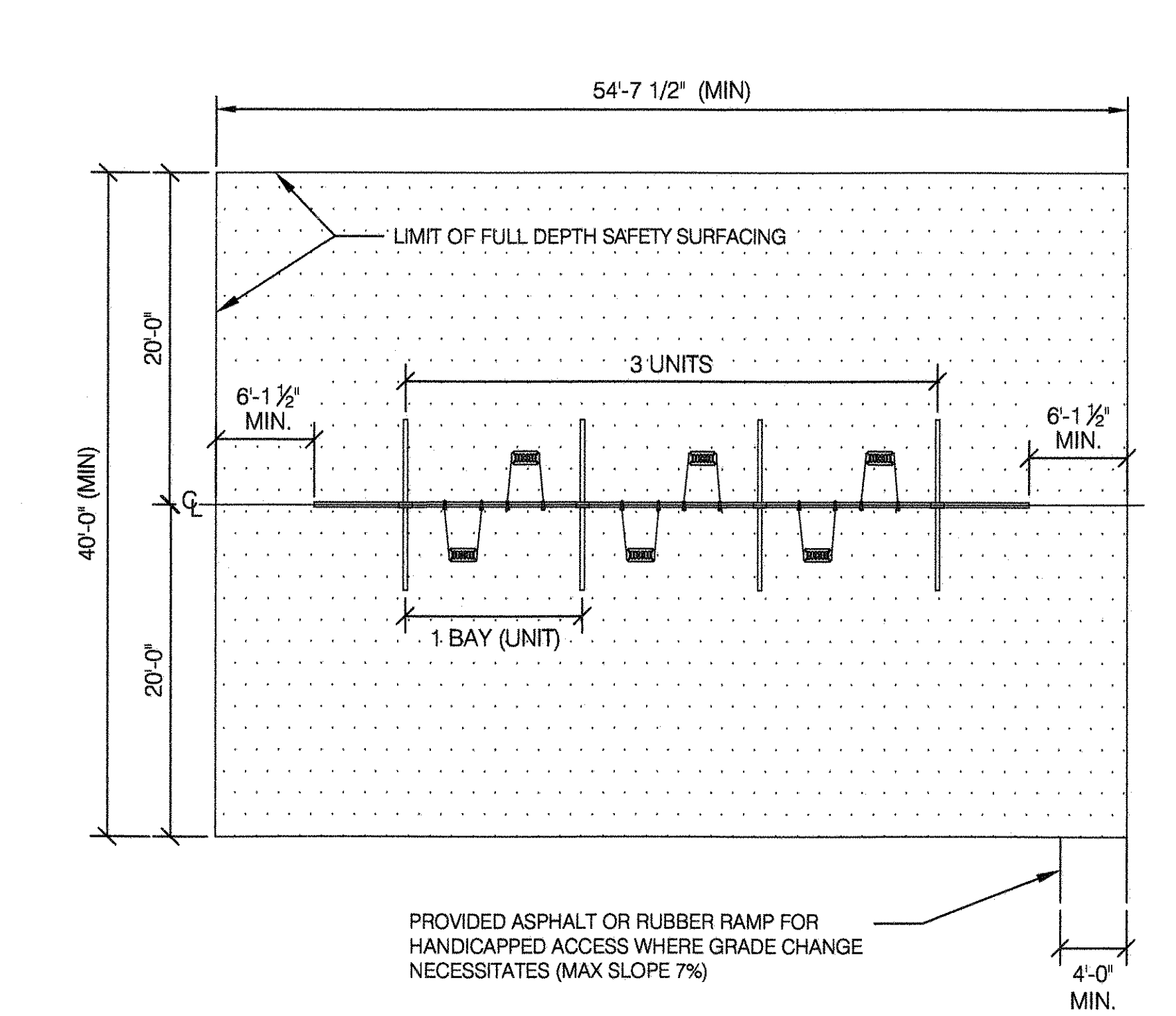
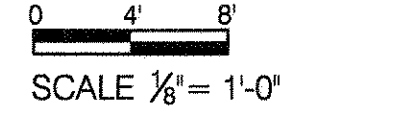
3 END PIPE FITTING, D.I. GALVANIZED



4 PLAY SWING SEAT

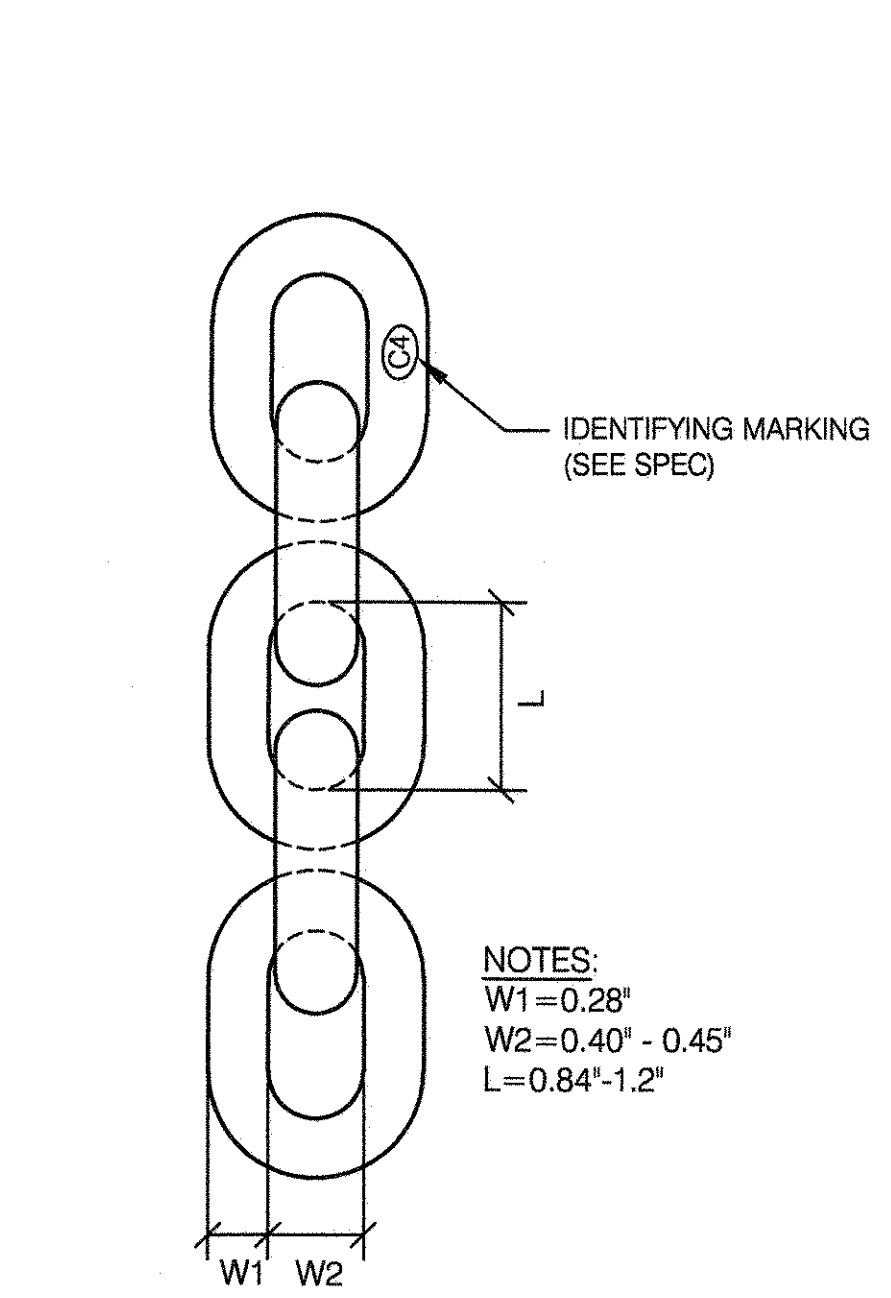
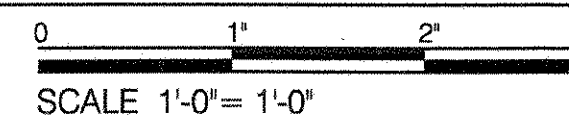


5 SAFETY SURFACE LAYOUT 10'-0" HIGH PLAYSWING



NOTES:
 1. 10' HIGH P-SWING FRAME TWO (2) SWINGS PER BAY (UNIT). DIMENSIONS SHOWN ARE FOR THREE (3) UNITS.
 2. THESE ARE MINIMUM LAYOUT REQUIREMENTS. SAFETY SURFACING MUST MEET 10'-0" DROP HEIGHT REQUIREMENTS (MINIMUM). SEE STANDARD DETAIL SHEET FOR SAFETY SURFACE.

7 CHAIN- 1/4" SIZE



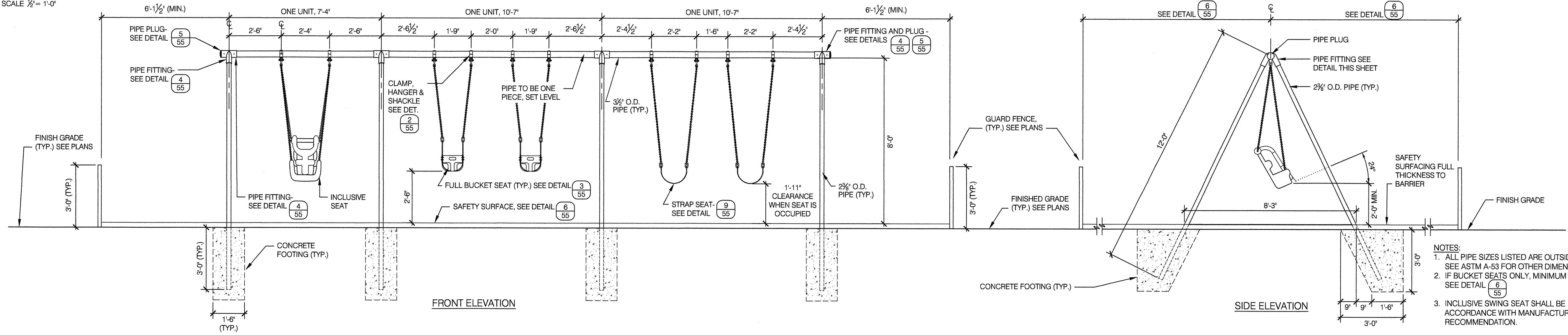
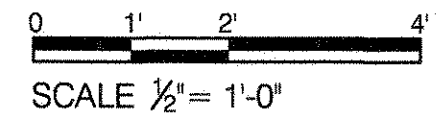
NOTES:
 W1=0.28"
 W2=0.40" - 0.45"
 L=0.84"-1.2"



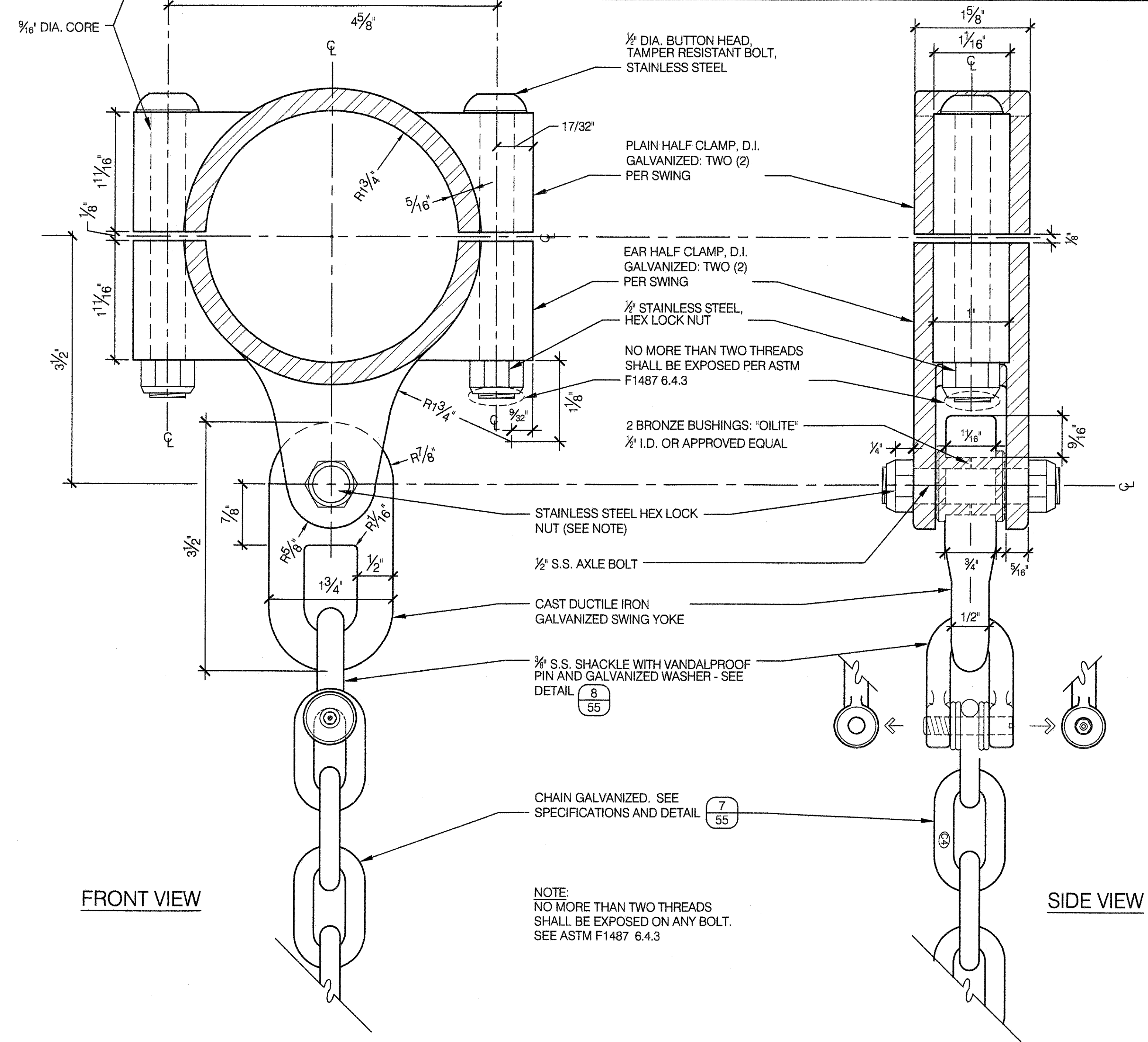
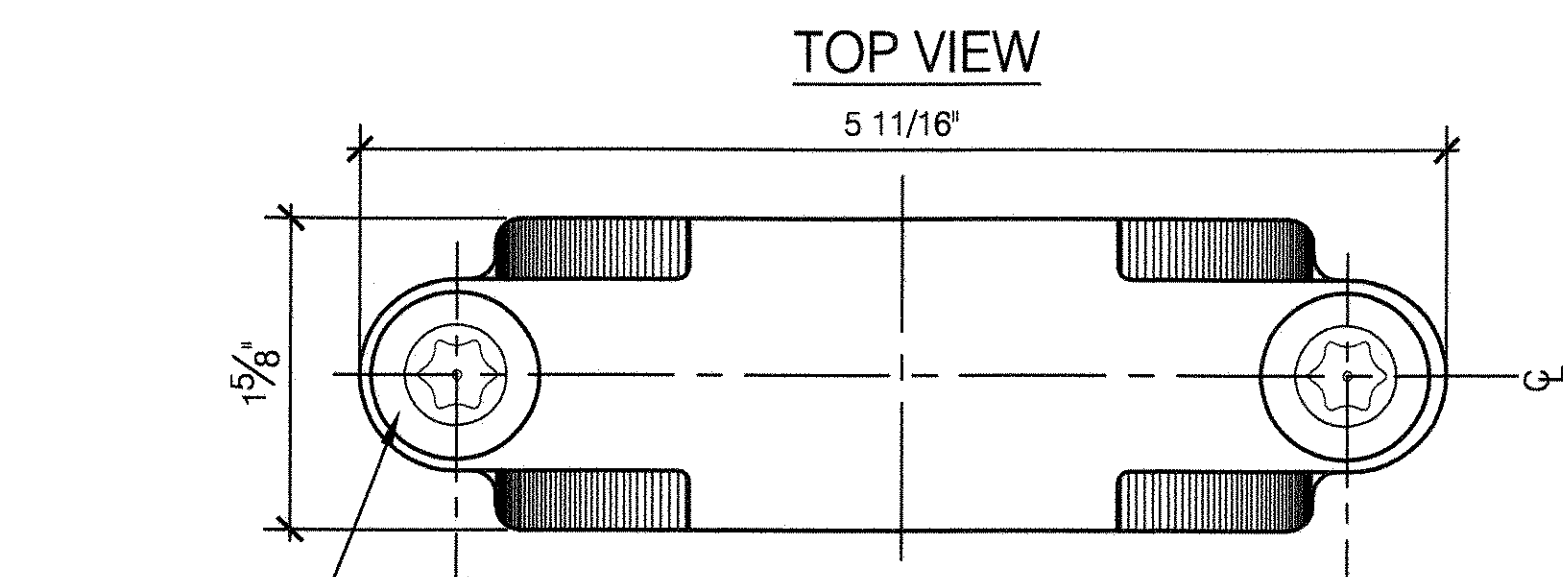
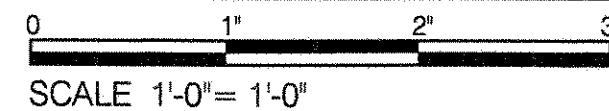
CITY OF NEW YORK
 PARKS & RECREATION
 OLMSTED CENTER
 FLUSHING MEADOWS CORONA PARK
 FLUSHING, NEW YORK 11368

DRAWING TITLE PLAY SWING - 10'-0" HIGH		CHECKED BY R. WEI, PE	
DRAWN BY D. FLYNN		APPROVED BY TYLA / 146-R10	
APPROVED BY DIRECTOR R. WEI, PE		SHEET NO. 54	
DATE 09-01-2020		SCALE AS SHOWN	

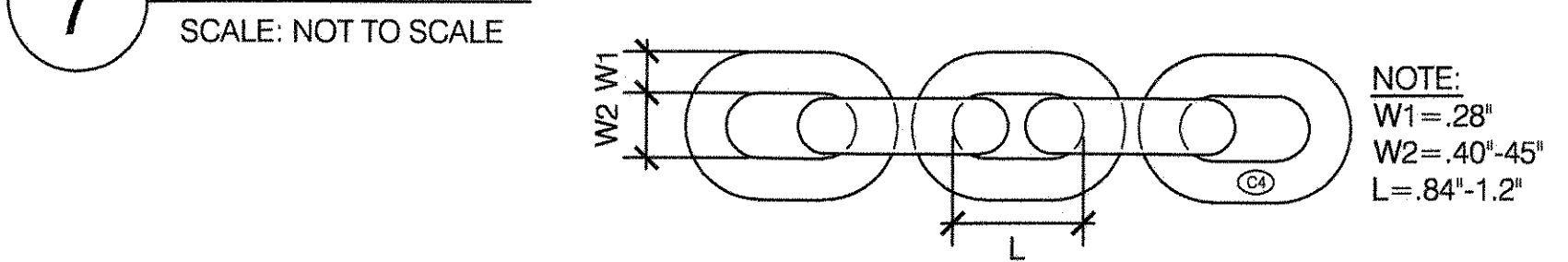
1 SWING FRAME 8'-0" HIGH



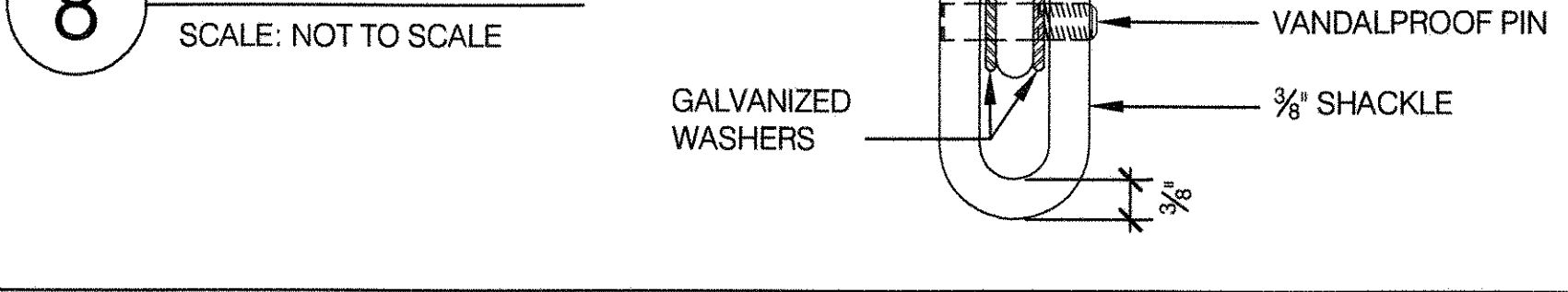
2 CLAMP, HANGER AND SHACKLE



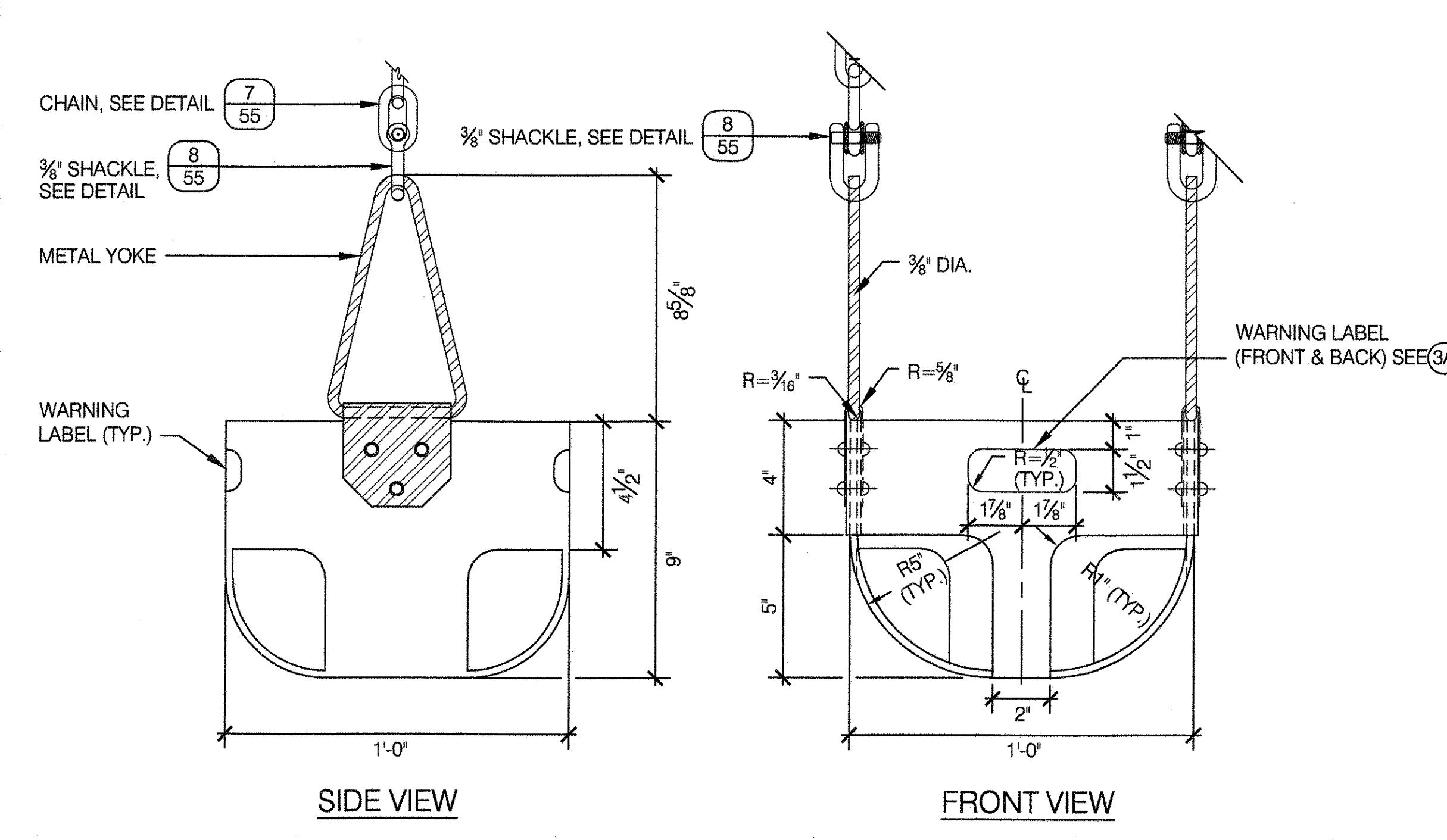
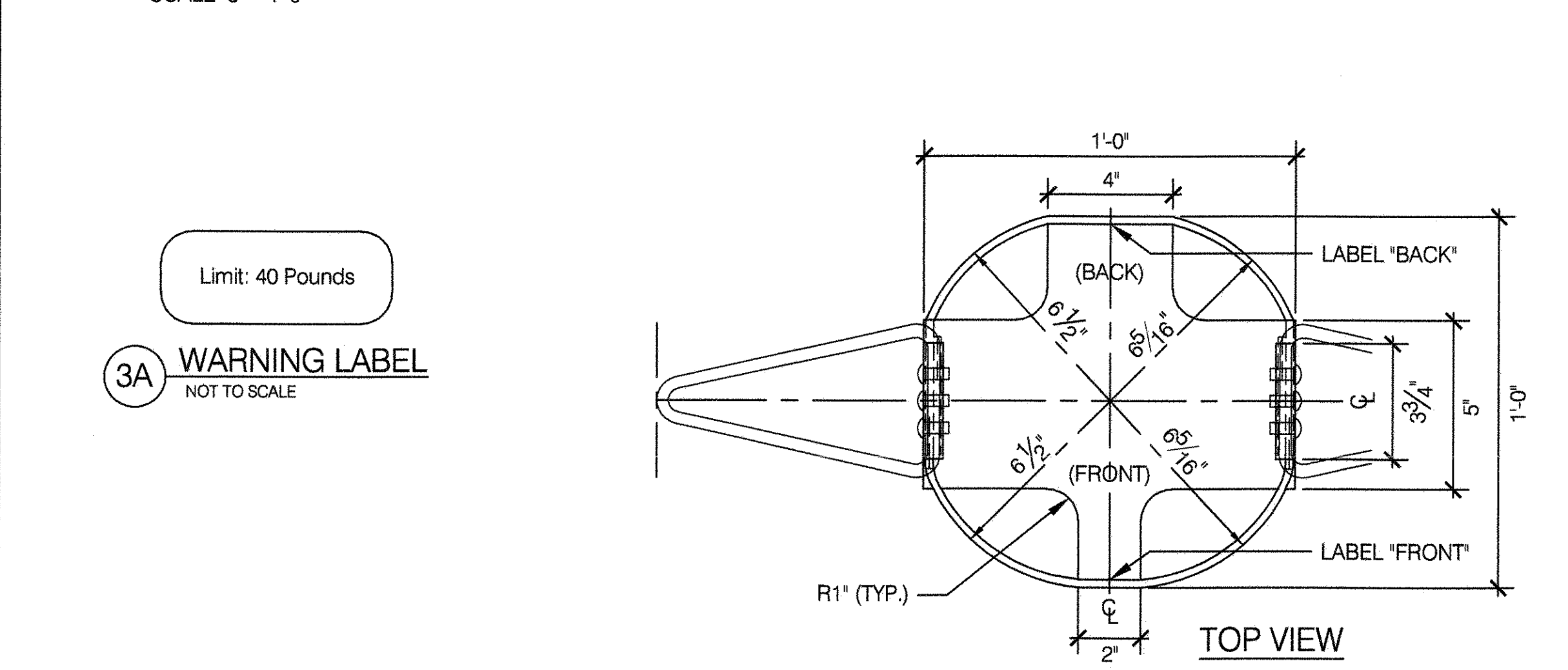
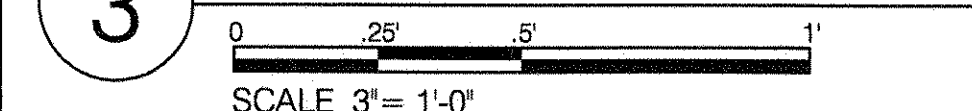
7 CHAIN - 1/4"



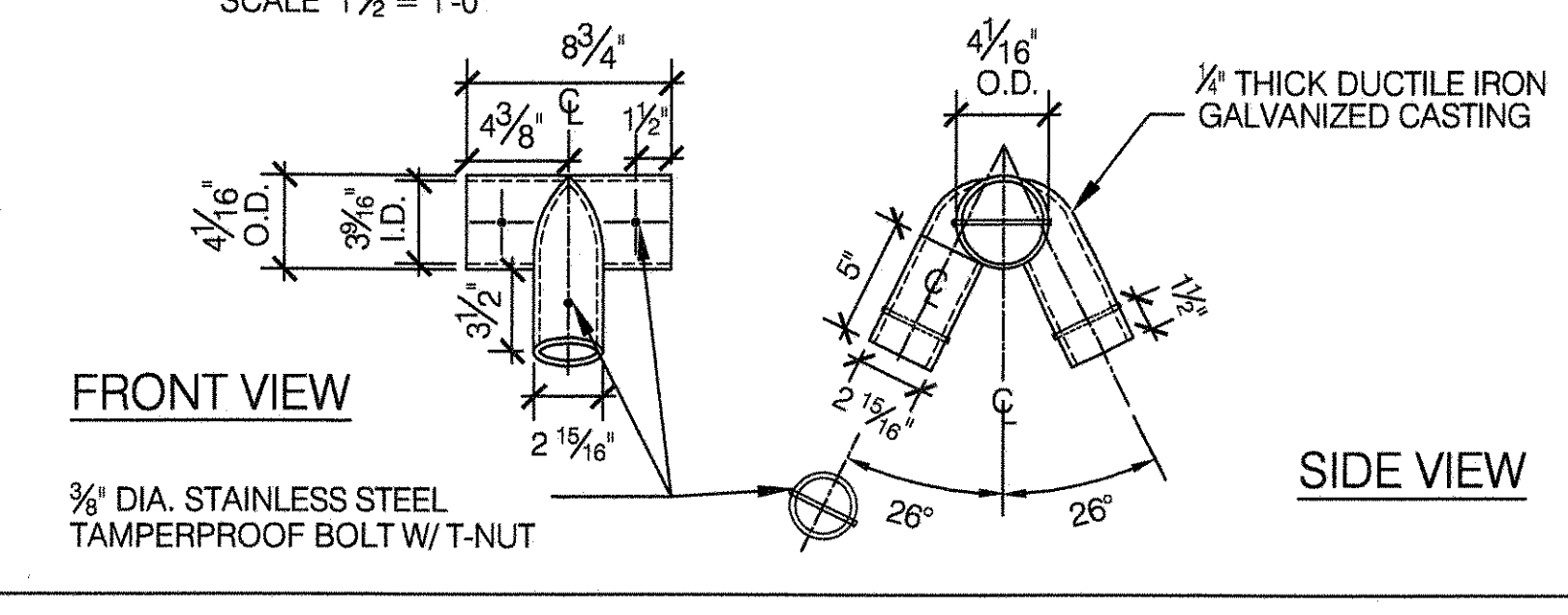
8 SHACKLE - 3/8"



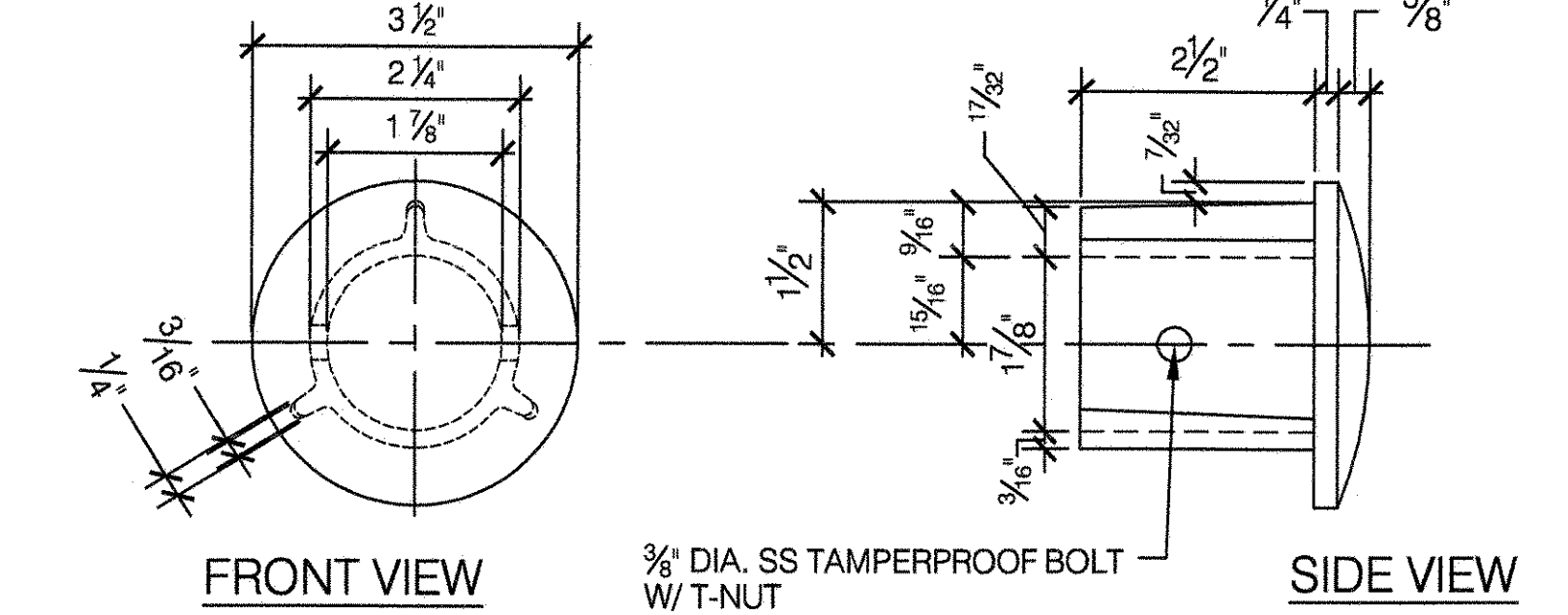
3 FULL BUCKET TOT SEAT



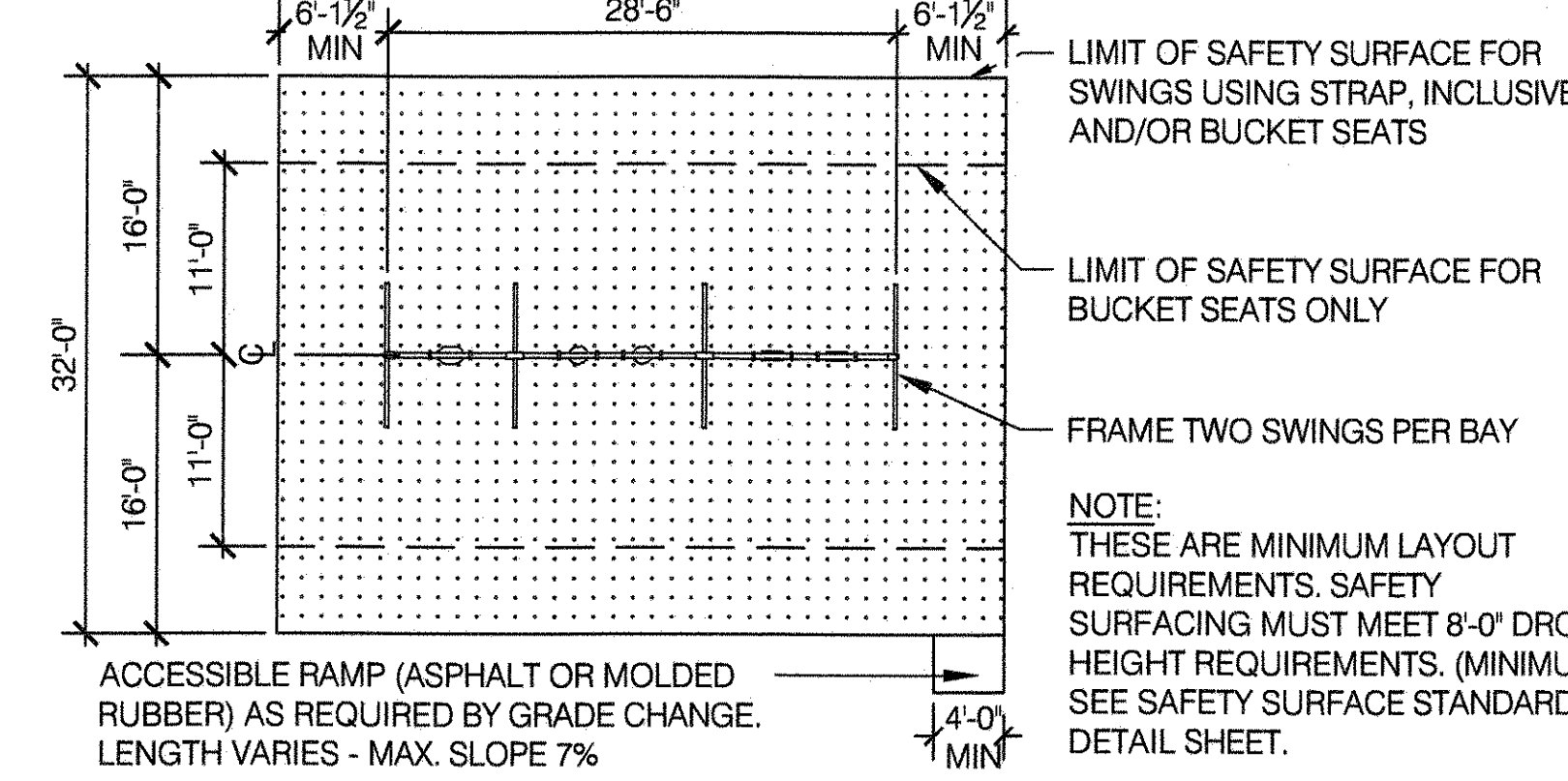
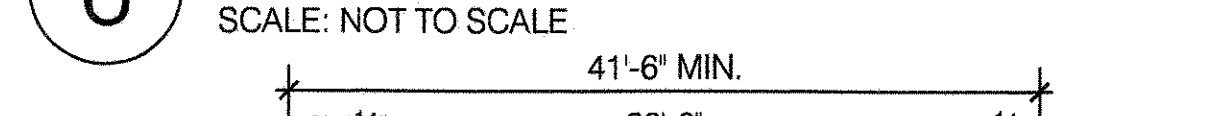
4 CENTER PIPE FITTING, D.I. GALV.



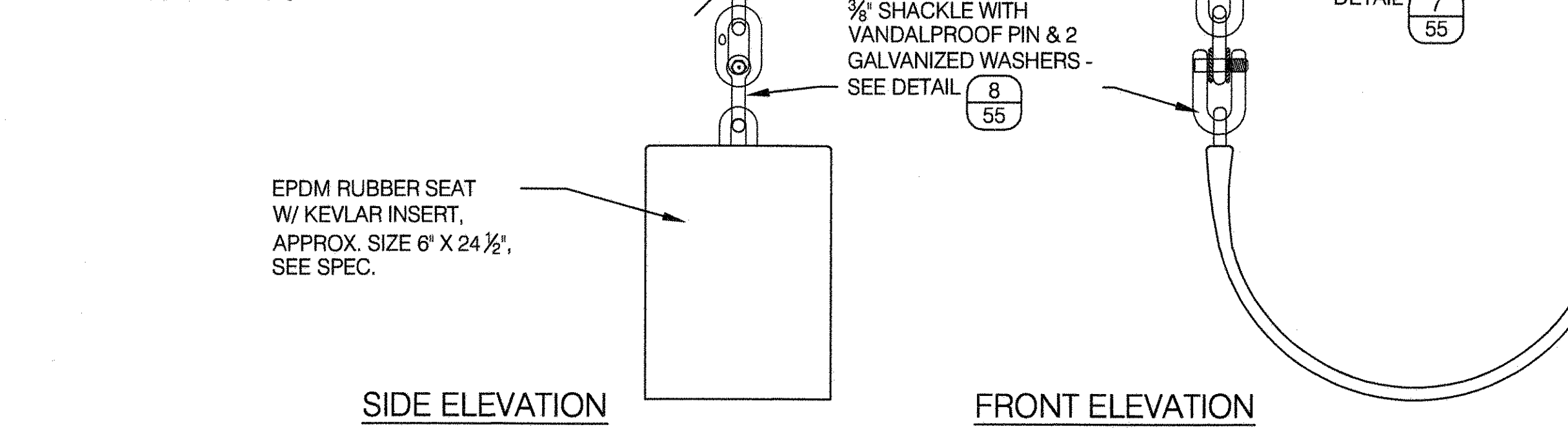
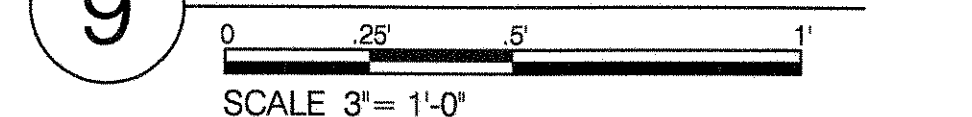
5 END PIPE FITTING, D.I. GALV.



6 SAFETY SURFACE LAYOUT



9 STRAP SEAT



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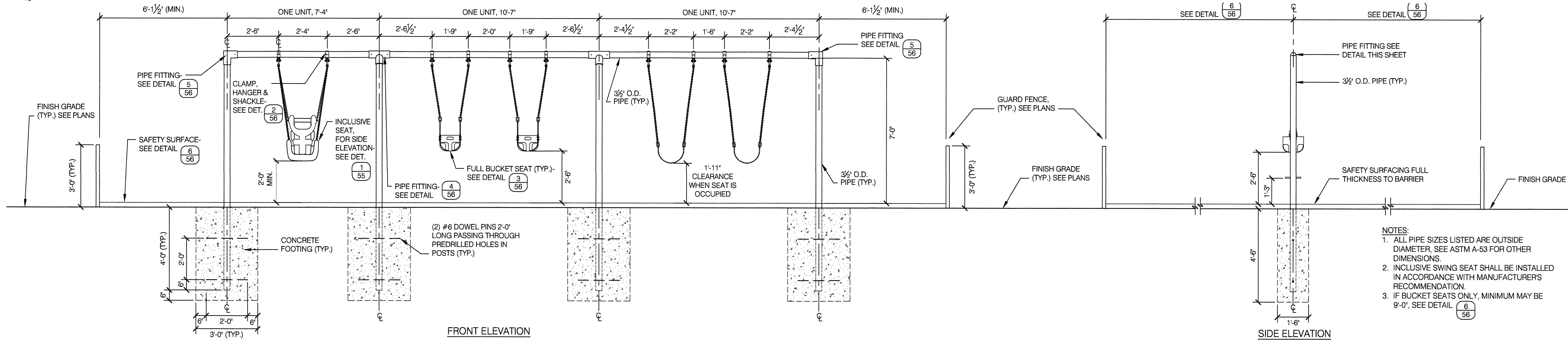
DRAWING TITLE
SWING - 8' - 0" HIGH

DRAWN BY STAFF	CHECKED BY RUBY WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 55
DATE 09-01-2020	SCALE AS SHOWN

STATE OF NEW YORK
 LICENSED PROFESSIONAL ENGINEER
 091042

1 SWING FRAME 7'-0"

SCALE 1/2" = 1'-0"



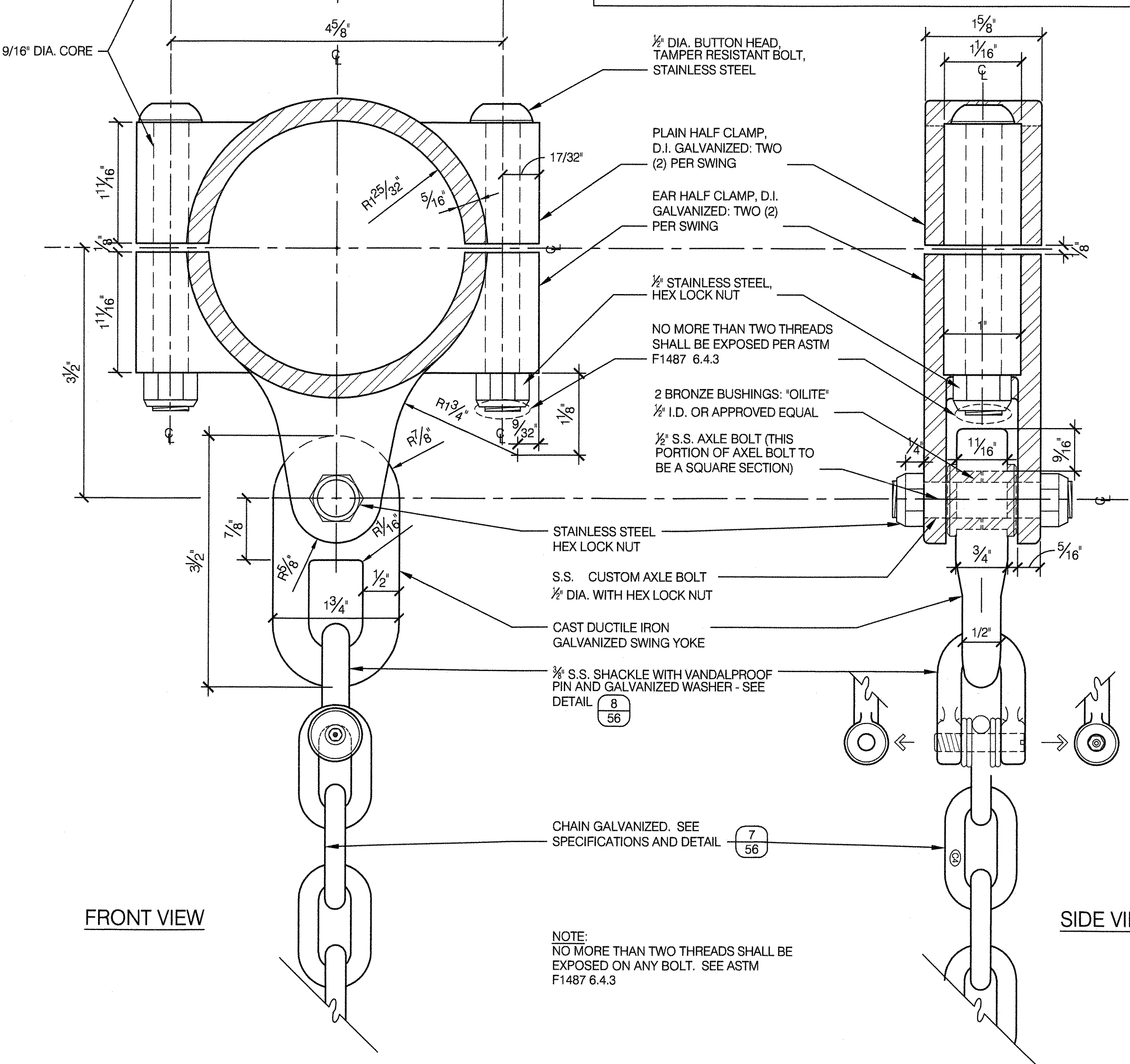
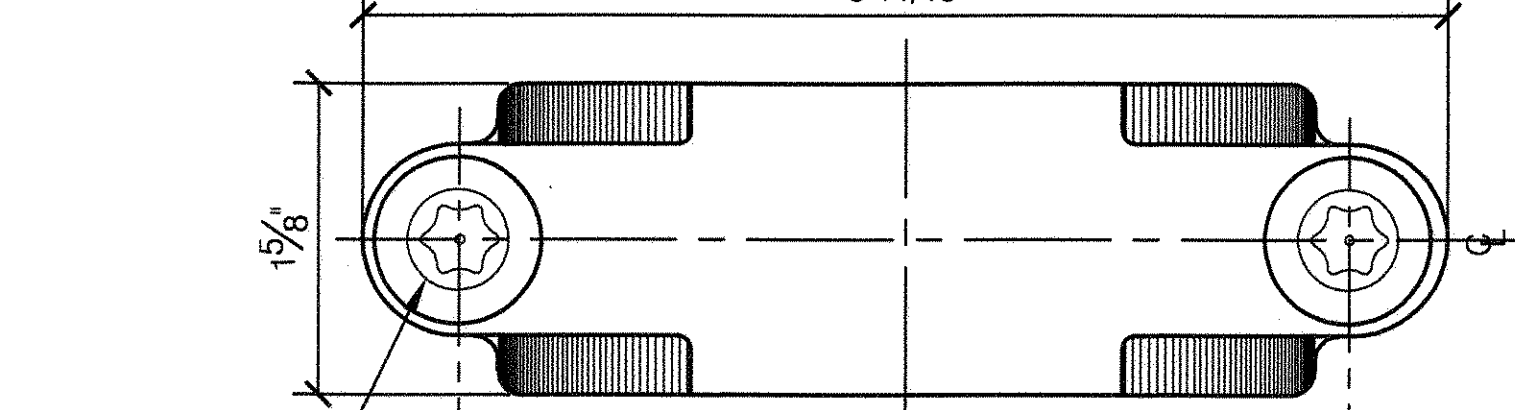
- NOTES:**
1. ALL PIPE SIZES LISTED ARE OUTSIDE DIAMETER, SEE ASTM A-53 FOR OTHER DIMENSIONS.
 2. INCLUSIVE SWING SEAT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
 3. IF BUCKET SEATS ONLY, MINIMUM MAY BE 9'-0", SEE DETAIL (6/56)

2 CLAMP, HANGER AND SHACKLE

SCALE 1'-0" = 1'-0"

TOP VIEW

5 11/16"

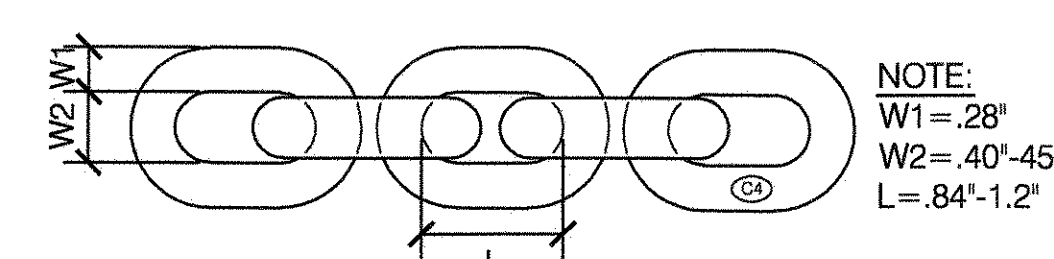


FRONT VIEW

SIDE VIEW

7 CHAIN - 1/4"

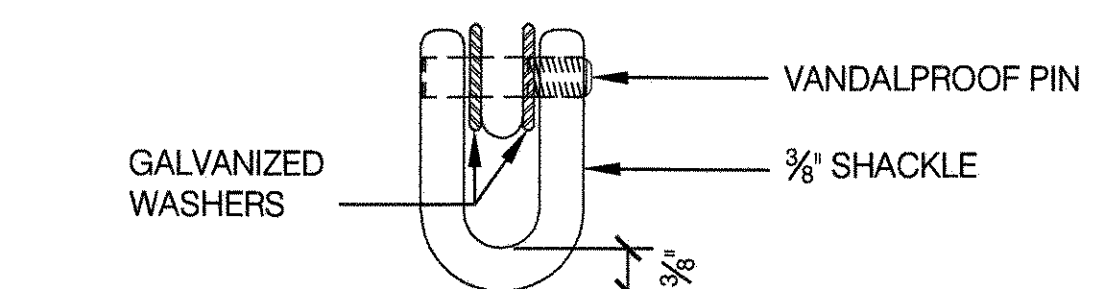
SCALE: NOT TO SCALE



NOTE:
W1=28
W2=40-45
L=84-1.2

8 SHACKLE - 3/8"

SCALE: NOT TO SCALE

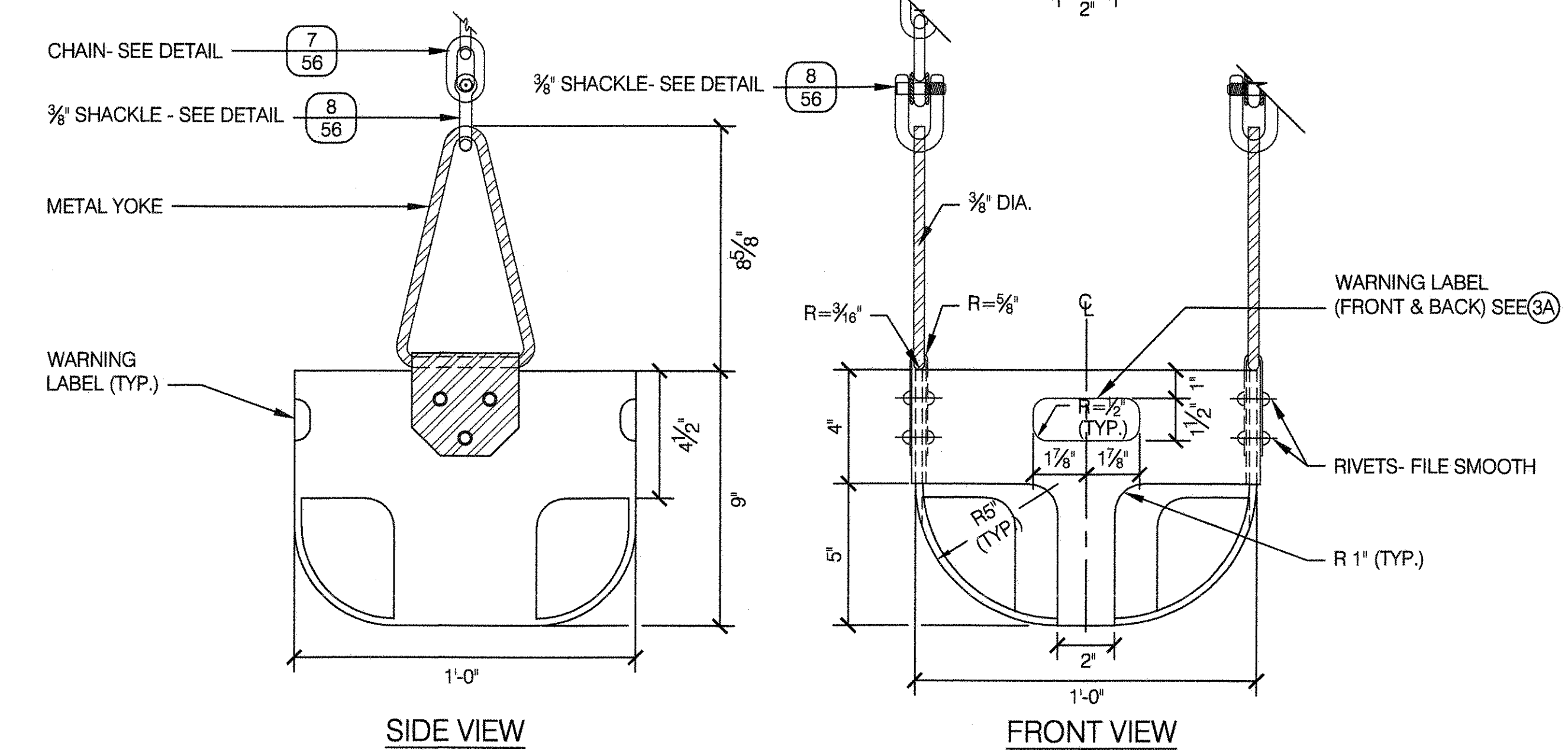


3 FULL BUCKET TOT SEAT

SCALE 3" = 1'-0"

Limit: 40 Pounds

3A WARNING LABEL
NOT TO SCALE

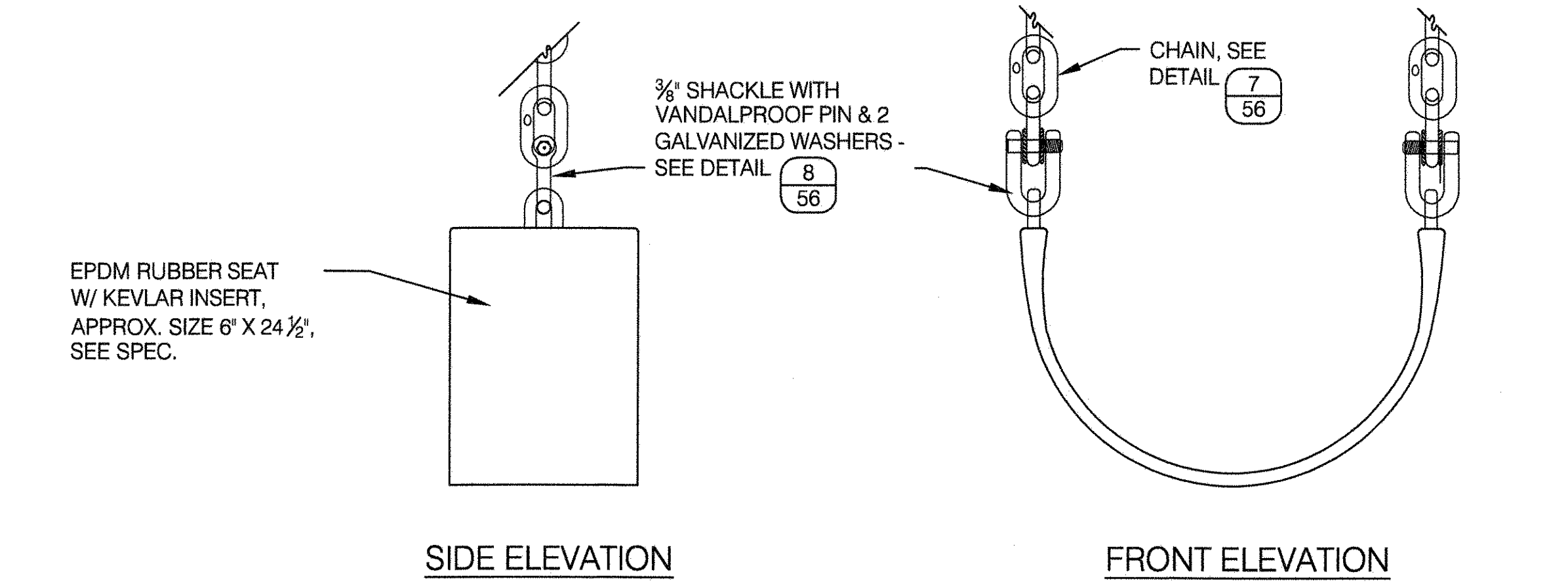


SIDE VIEW

FRONT VIEW

9 STRAP SEAT

SCALE 3" = 1'-0"

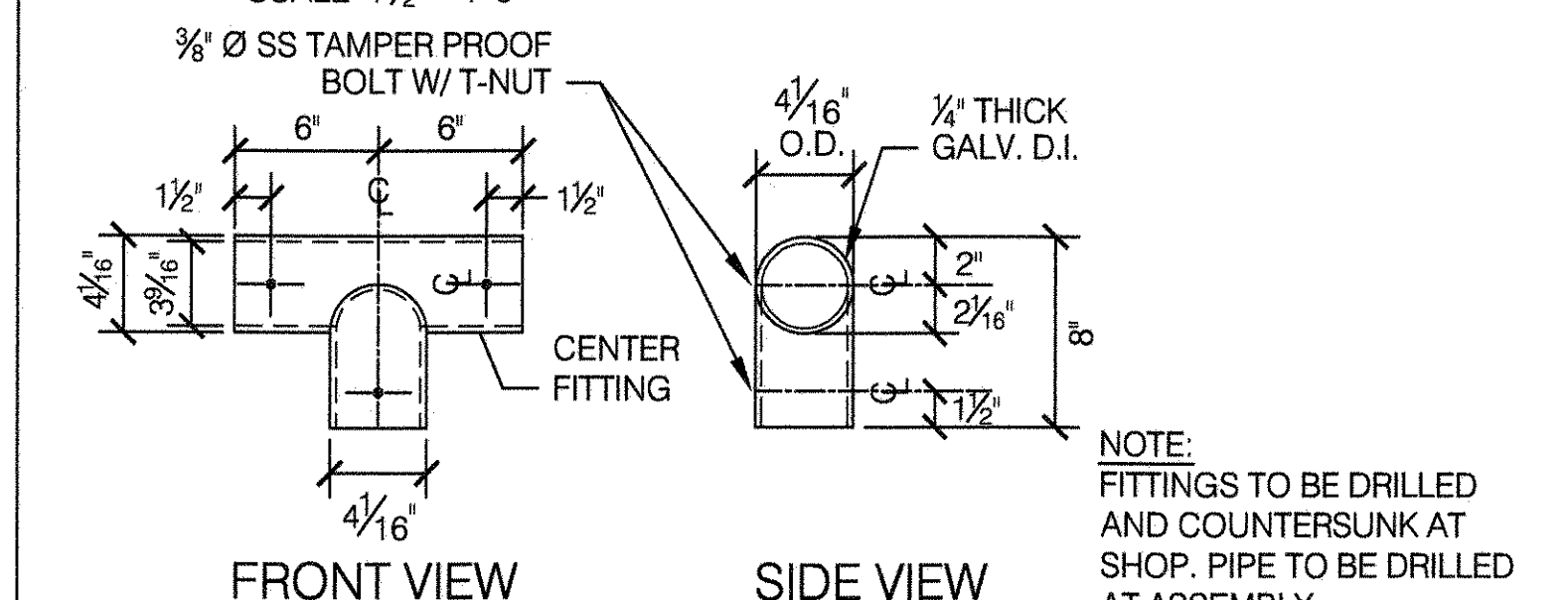


SIDE ELEVATION

FRONT ELEVATION

4 CENTER PIPE FITTING, D.I. GALV.

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

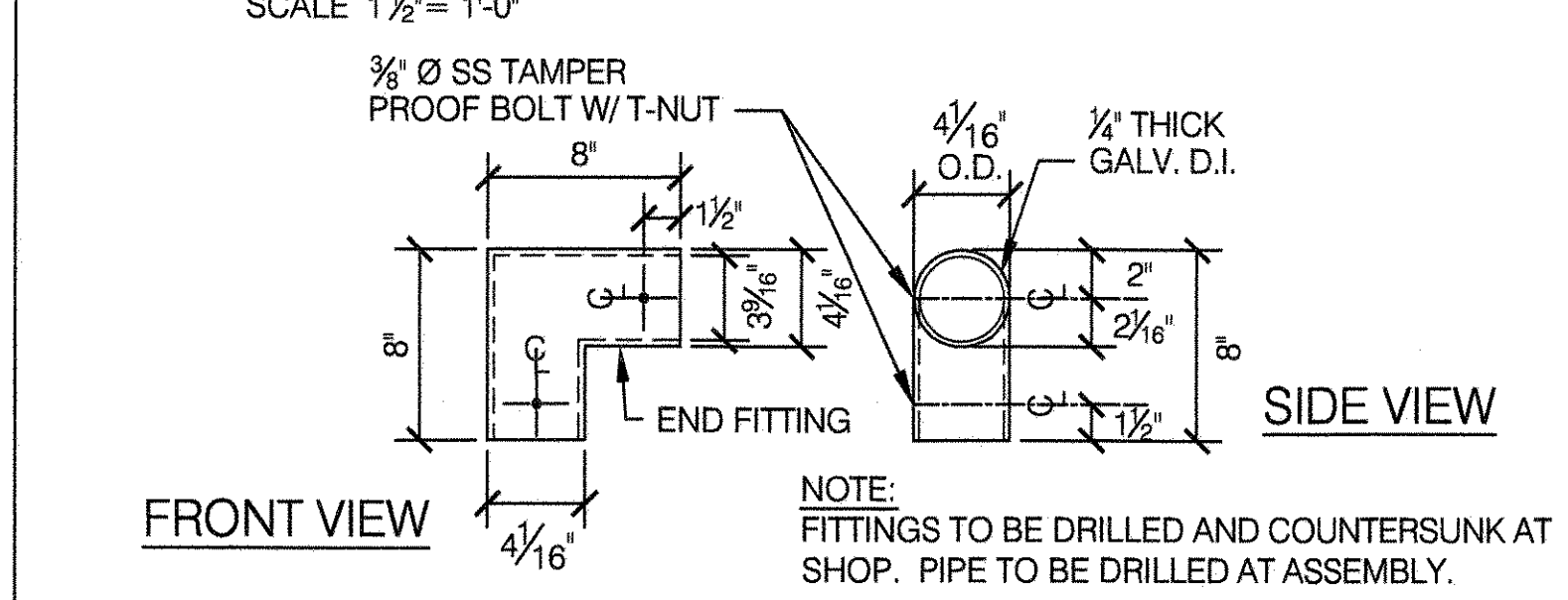


FRONT VIEW

SIDE VIEW

5 END PIPE FITTING, D.I. GALV.

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

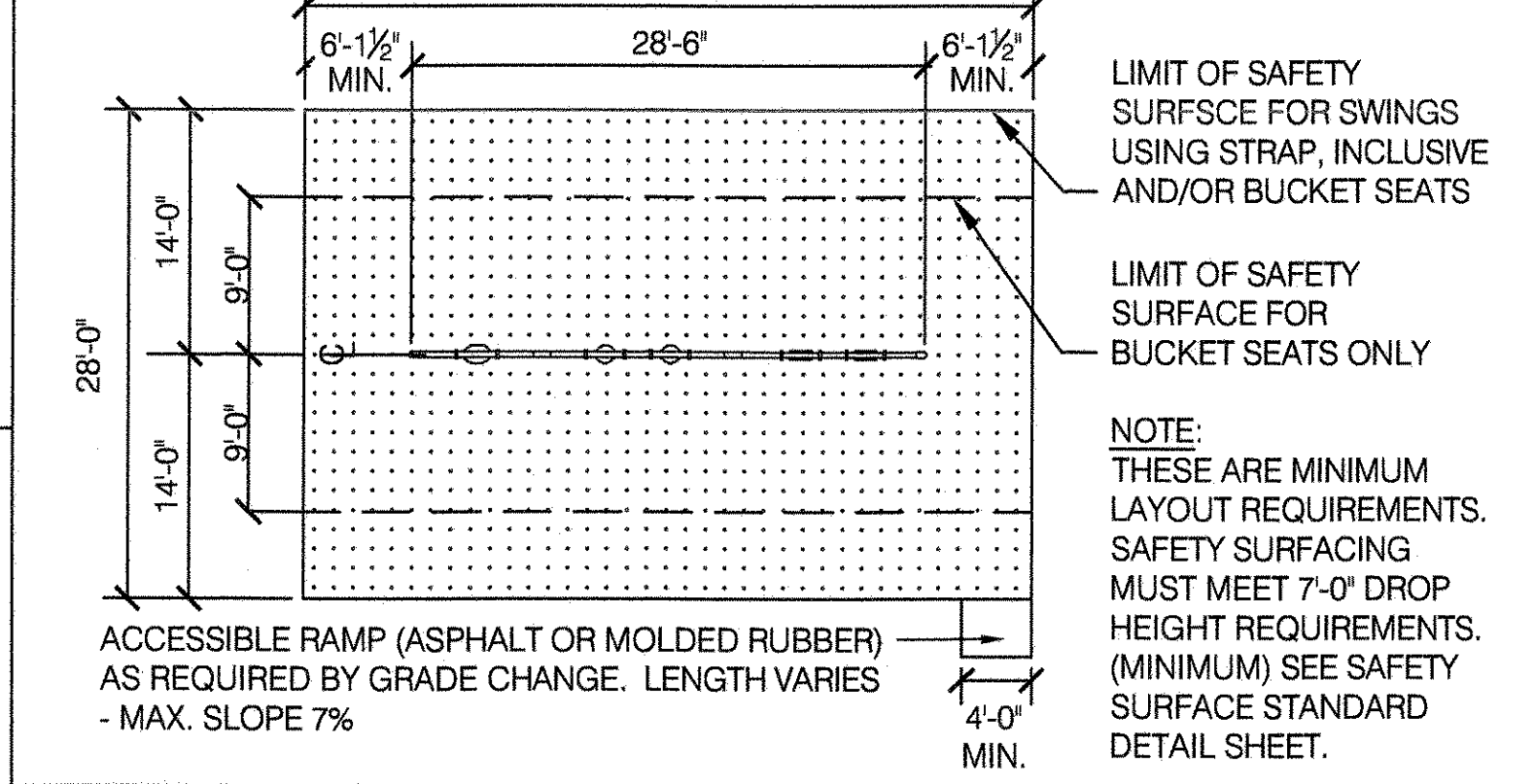


FRONT VIEW

SIDE VIEW

6 SAFETY SURFACE LAYOUT

SCALE: NOT TO SCALE



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DRAWING TITLE
SWING - 7'-0" HIGH

DRAWN BY STAFF	CHECKED BY RUBY WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 56
DATE 09-01-2020	SCALE AS SHOWN

1 RUBBER WAFFLE TYPE SAFETY SURFACE

NOT TO SCALE

LAYOUT REQUIREMENTS FOR PLAY EQUIPMENT EXCEPT SWINGS AND SLIDES

MITCHELL RUBBER - EZ FALL					
CRITICAL HEIGHT	USE ZONE	TRANSITION ZONE	* NO ENCROACHMENT ZONE	THICKNESS	DIMENSIONS
5' DROP HT.	6 LF	1 LF	3 LF	1.75"	4' x 4'
8' DROP HT.	6 LF	2 LF	3 LF	2.75"	4' x 4'
10' DROP HT.	⊙	⊙	⊙	3.33"	2' x 2'

PLAYSAFE - SPECTRALOCK					
CRITICAL HEIGHT	USE ZONE	TRANSITION ZONE	* NO ENCROACHMENT ZONE	THICKNESS	DIMENSIONS
5' DROP HT.	6 LF	1 LF	3 LF	1.75"	2' x 3'
8' DROP HT.	6 LF	2 LF	3 LF	2.75"	2' x 3'
10' DROP HT.	⊙	⊙	⊙	3.33"	2' x 2'

SUTCLIFFE PLAY - SAFERZONE					
CRITICAL HEIGHT	USE ZONE	TRANSITION ZONE	* NO ENCROACHMENT ZONE	THICKNESS	DIMENSIONS
5' DROP HT.	6 LF	6'	3 LF	1.77" (45mm)	19.7' x 19.7' (50cm x 50cm)
8' DROP HT.	6 LF	8'	3 LF	2.36" (60mm)	
10' DROP HT.	⊙	⊙	⊙	3.55" (90mm)	

* STRONGLY RECOMMENDED, BUT NOT REQUIRED

⊙ ALL SWINGS REQUIRE SPECIFIC USE ZONE LAYOUT - SEE STANDARD DETAILS FOR SWING - 7 HEIGHT, SWING - 8' HEIGHT AND PLAY SWINGS. FOR SLIDES, SEE ASTM F1487-LATEST REVISION

DEFINITIONS

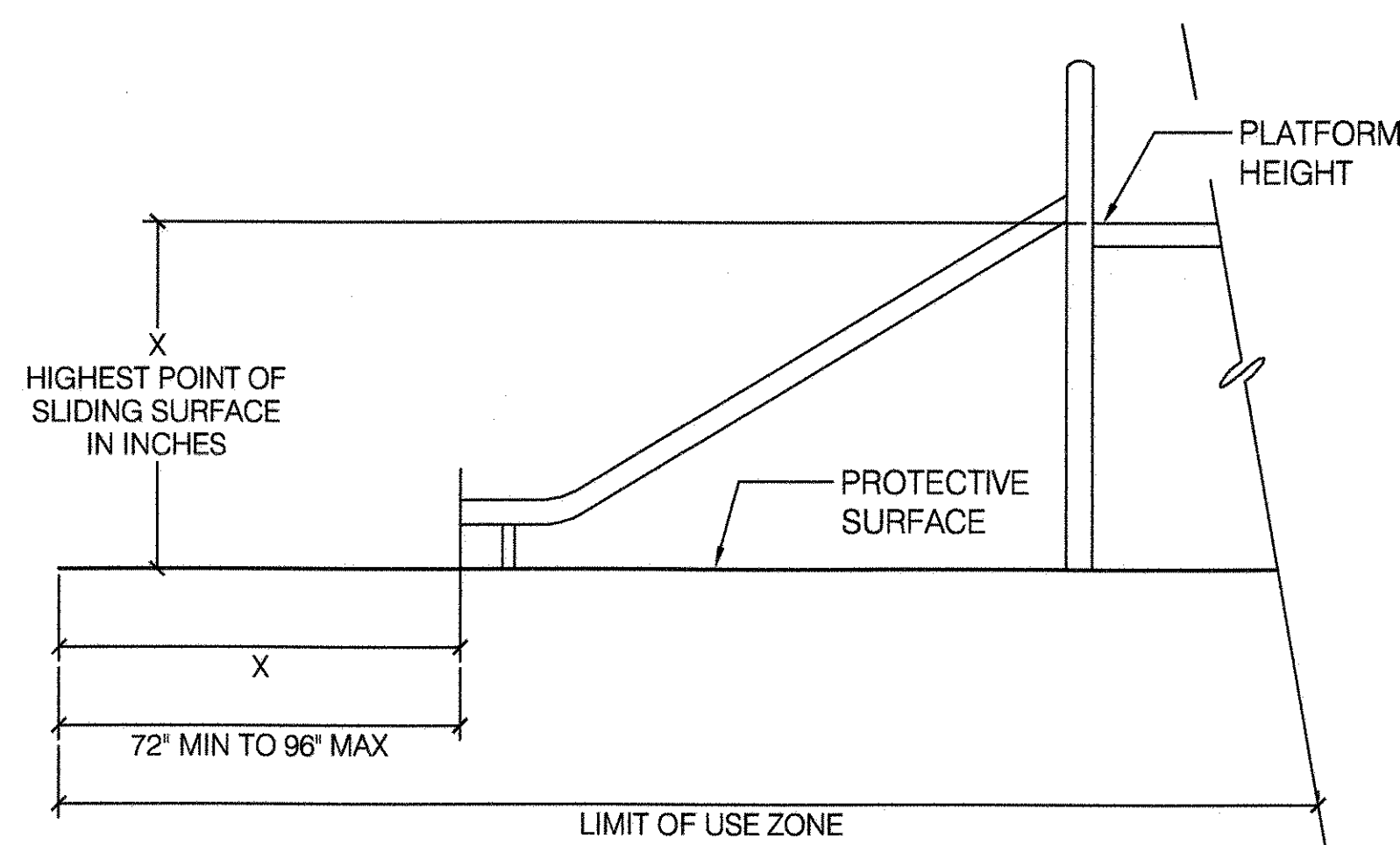
- CRITICAL HEIGHT:** THE FALL HEIGHT BELOW WHICH A LIFE-THREATENING HEAD INJURY WOULD NOT BE EXPECTED TO OCCUR. SEE CPSC GUIDELINES FOR SPECIFIC INFORMATION.
- USE ZONE:** THE SURFACE UNDER AND AROUND A PIECE OF EQUIPMENT ONTO WHICH A CHILD FALLING FROM OR EXITING FROM THE EQUIPMENT WOULD BE EXPECTED TO FALL. IN GENERAL, THE USE ZONE SHOULD EXTEND IN ALL DIRECTIONS FROM THE PERIMETER OF THE EQUIPMENT.
- TRANSITION ZONE:** THE AREA OF SAFETY SURFACE WHICH TRANSITIONS FROM FULL DEPTH TO FINISHED GRADE.
- NO-ENCROACHMENT ZONE:** AN ADDITIONAL AREA BEYOND THE USE AND/OR TRANSITION ZONE WHICH IS NOT COVERED WITH SAFETY SURFACE, AND FREE FROM OBSTRUCTIONS. THIS IS OPTIONAL, AND NOT A REQUIREMENT OF THE CPSC GUIDELINES.

NOTES:

- ADDITIONAL DRAWINGS OF RUBBER SAFETY SURFACING ARE AVAILABLE FROM THE MANUFACTURER.
- IN GENERAL, LAYOUT REQUIREMENTS ARE PER CPSC AND ASTM OFFICIAL GUIDELINES.

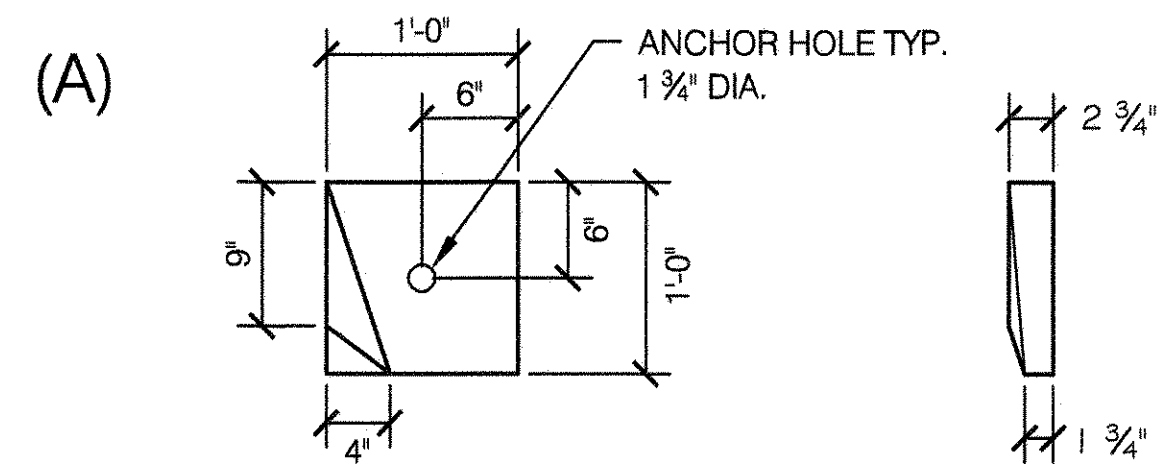
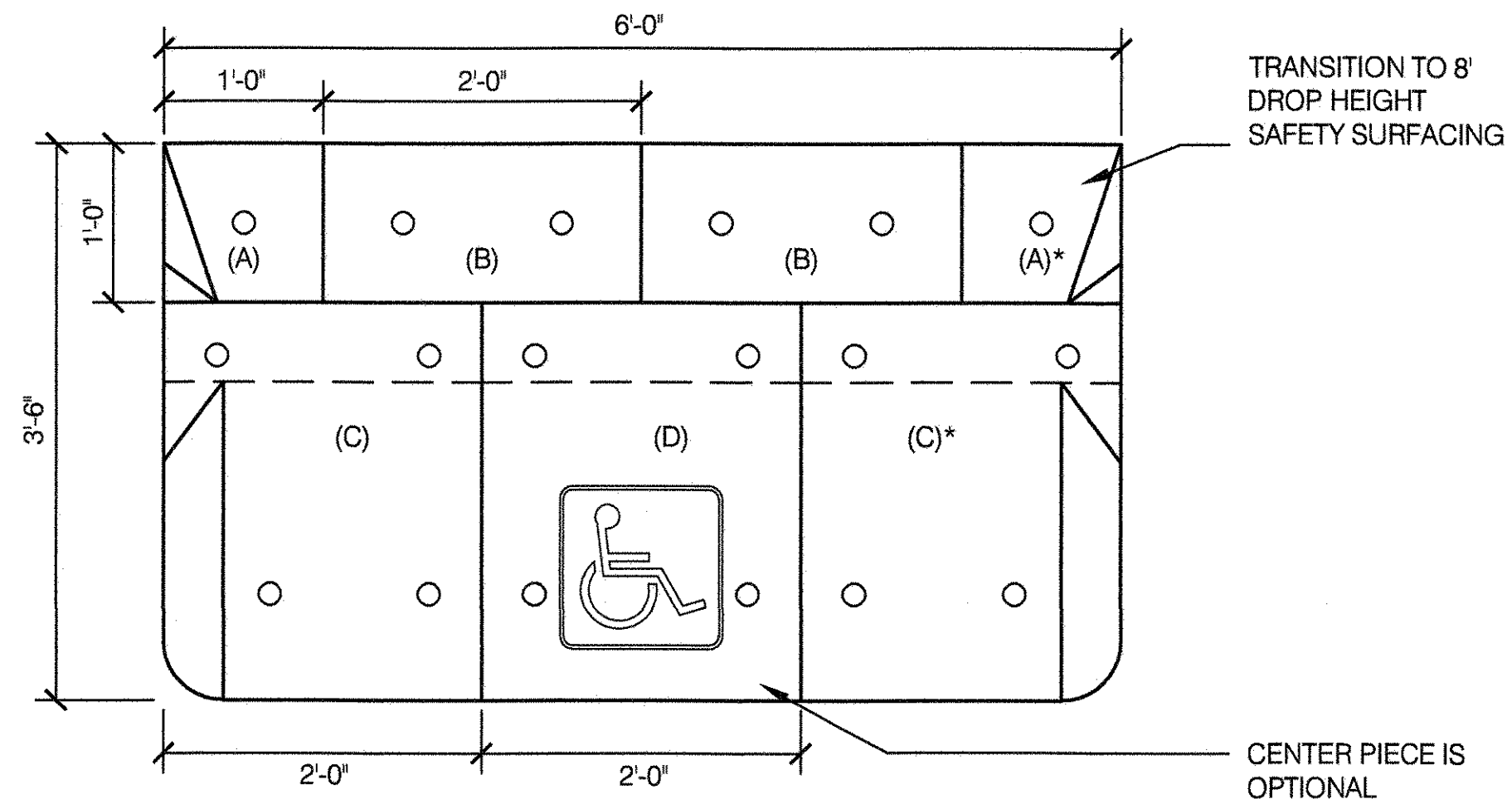
2 USE ZONES FOR SLIDES

NOT TO SCALE



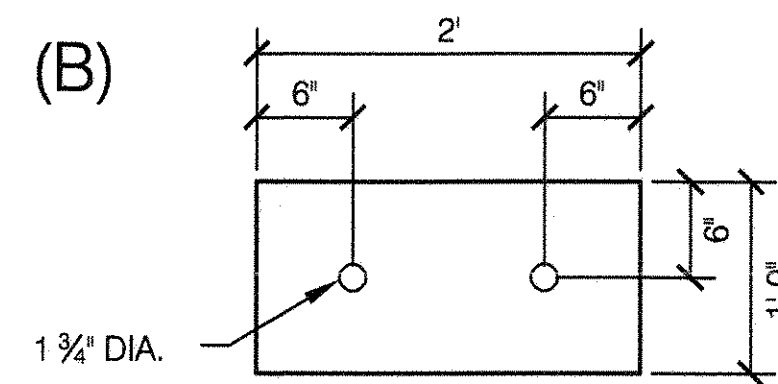
3 ACCESSIBLE RAMP - MITCHELL RUBBER

SCALE 1"= 1'-0"

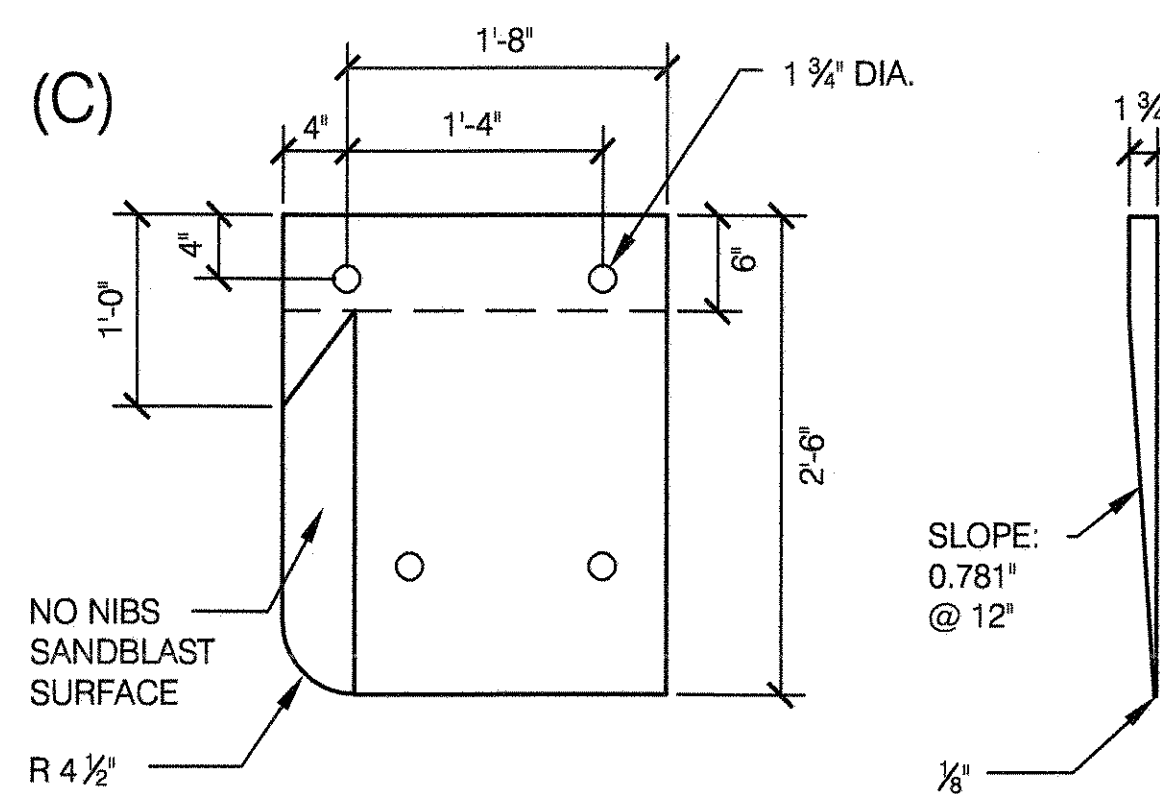


LEFT TRANSITIONAL HANDICAP RAMP (FROM 8' DROP HT. S.S. TO 5' DROP HT. S.S.)

* RIGHT TRANSITIONAL HANDICAP RAMP IS A MIRROR IMAGE OF THE LEFT RAMP

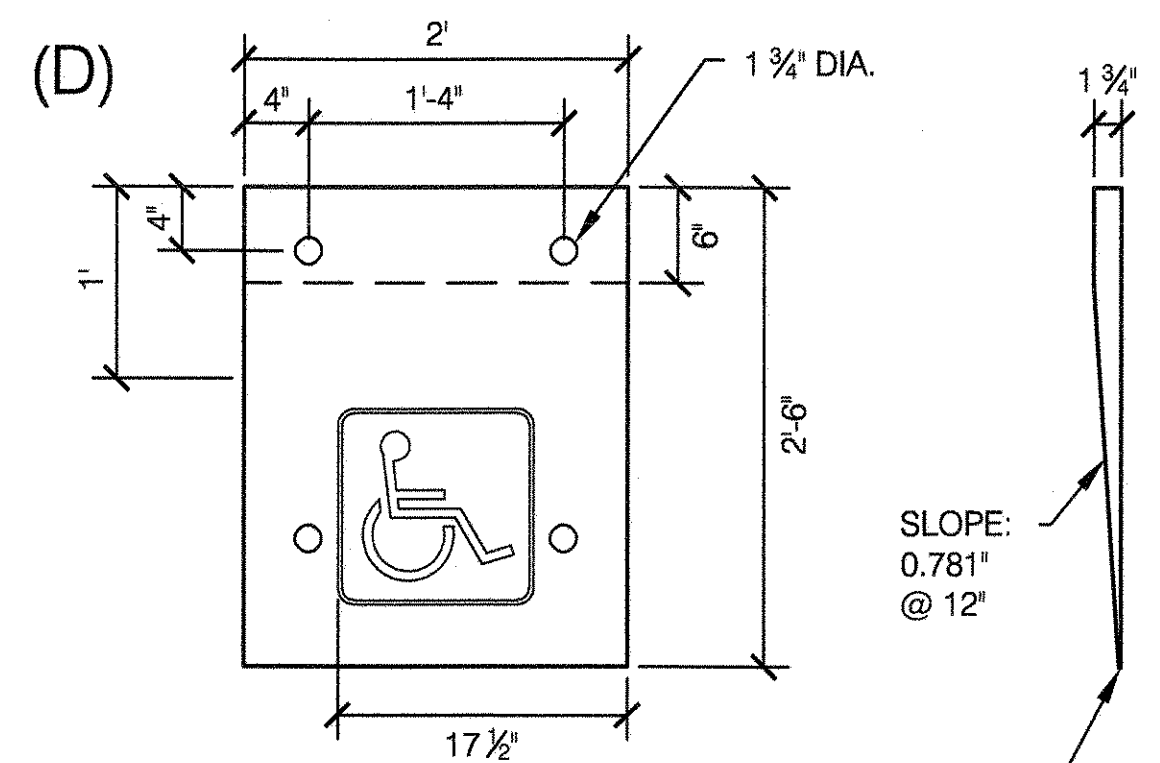


CENTER TRANSITIONAL HANDICAP RAMP (FROM 8' DROP HT. S.S. TO 5' DROP HT. S.S.)



LEFT TRANSITIONAL HANDICAP RAMP (FROM 5' DROP HT. S.S. TO FINISH GRADE)

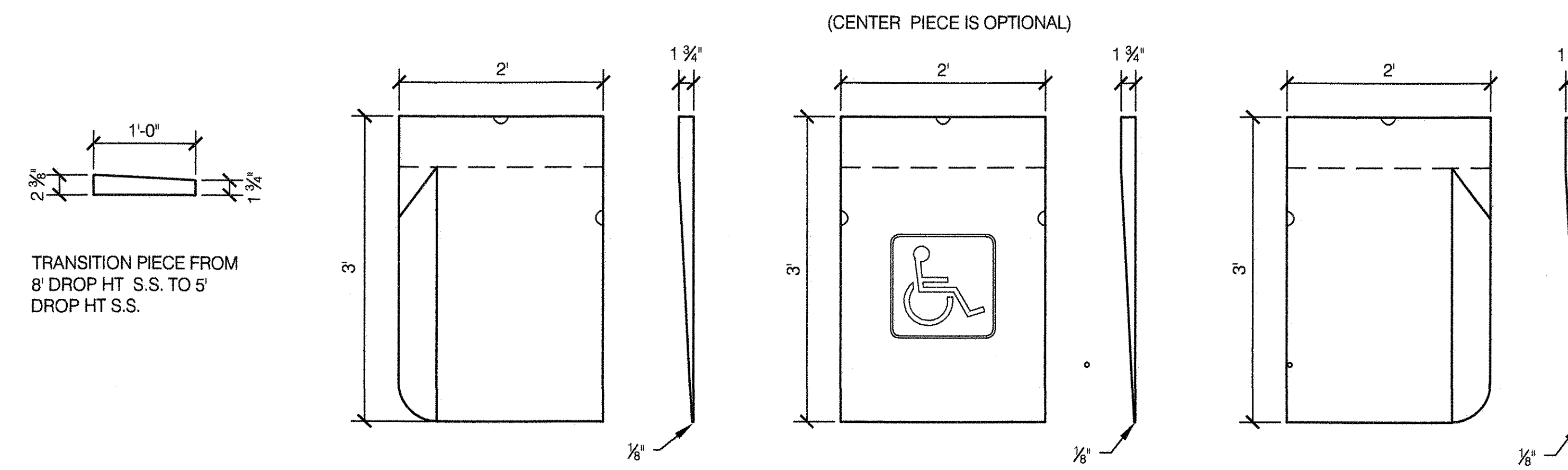
* RIGHT TRANSITIONAL HANDICAP RAMP IS A MIRROR IMAGE OF LEFT RAMP



CENTER HANDICAP RAMP (FROM 5' DROP HT. S.S. TO FINISH GRADE)

4 ACCESSIBLE RAMP - SPECTRALOCK

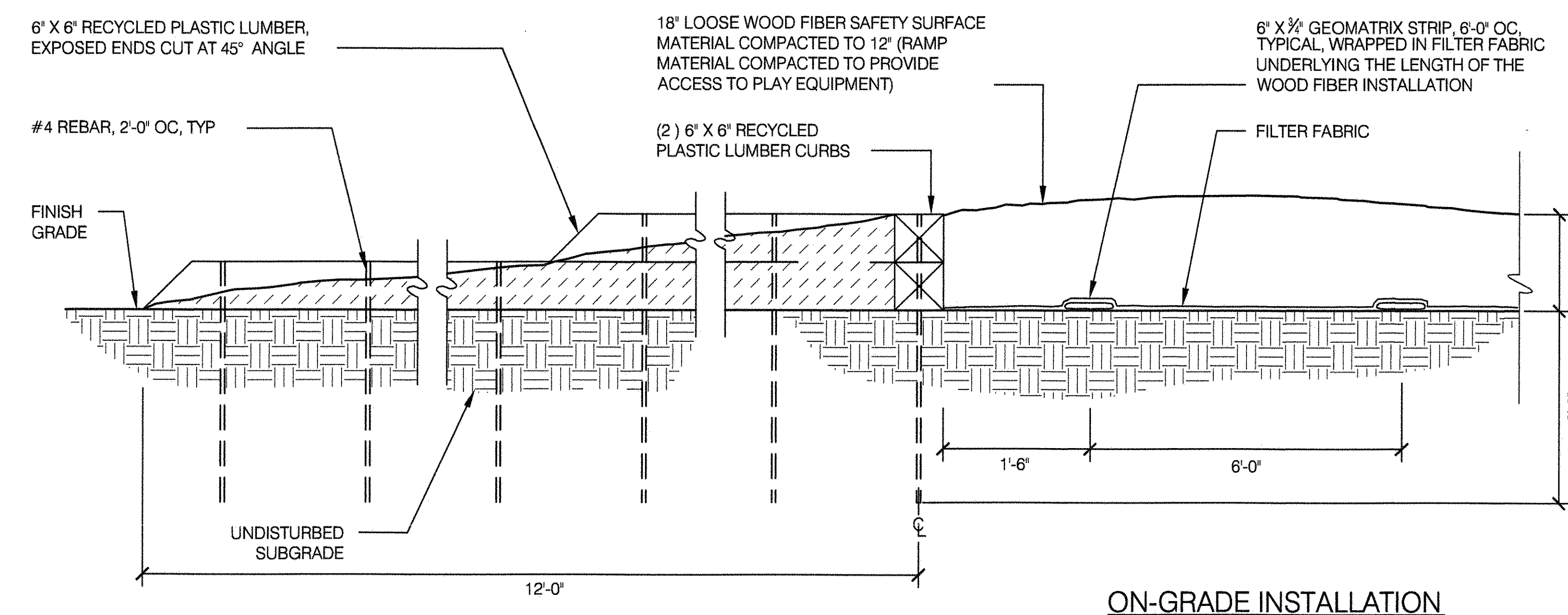
SCALE 1"= 1'-0"



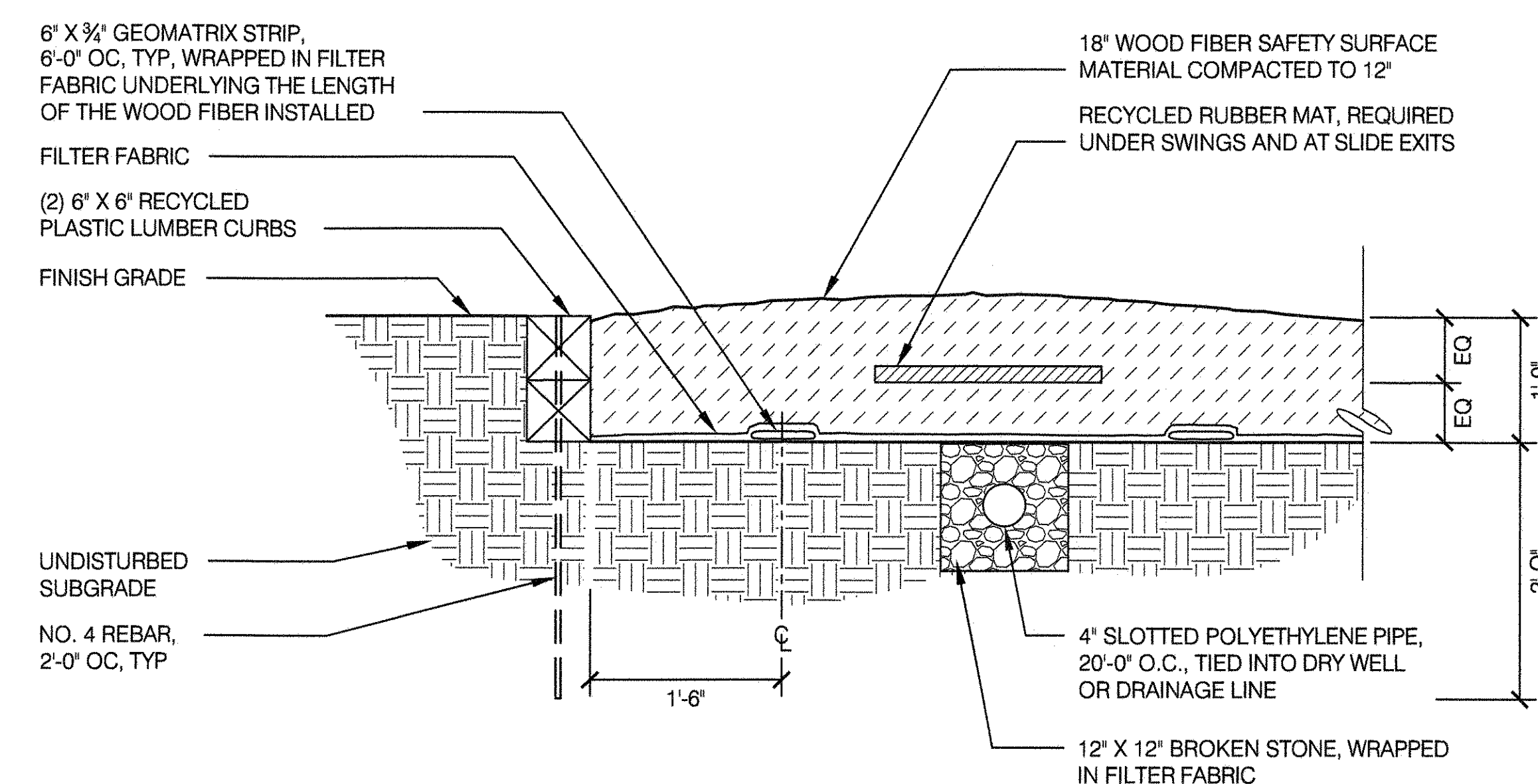
TRANSITION PIECE FROM 8' DROP HT. S.S. TO 5' DROP HT. S.S.

5 WOOD FIBER SAFETY SURFACE

NOT TO SCALE




ON-GRADE INSTALLATION



BELOW-GRADE INSTALLATION


NOTE: ALL FILTER FABRIC SHALL BE NON-WOVEN.



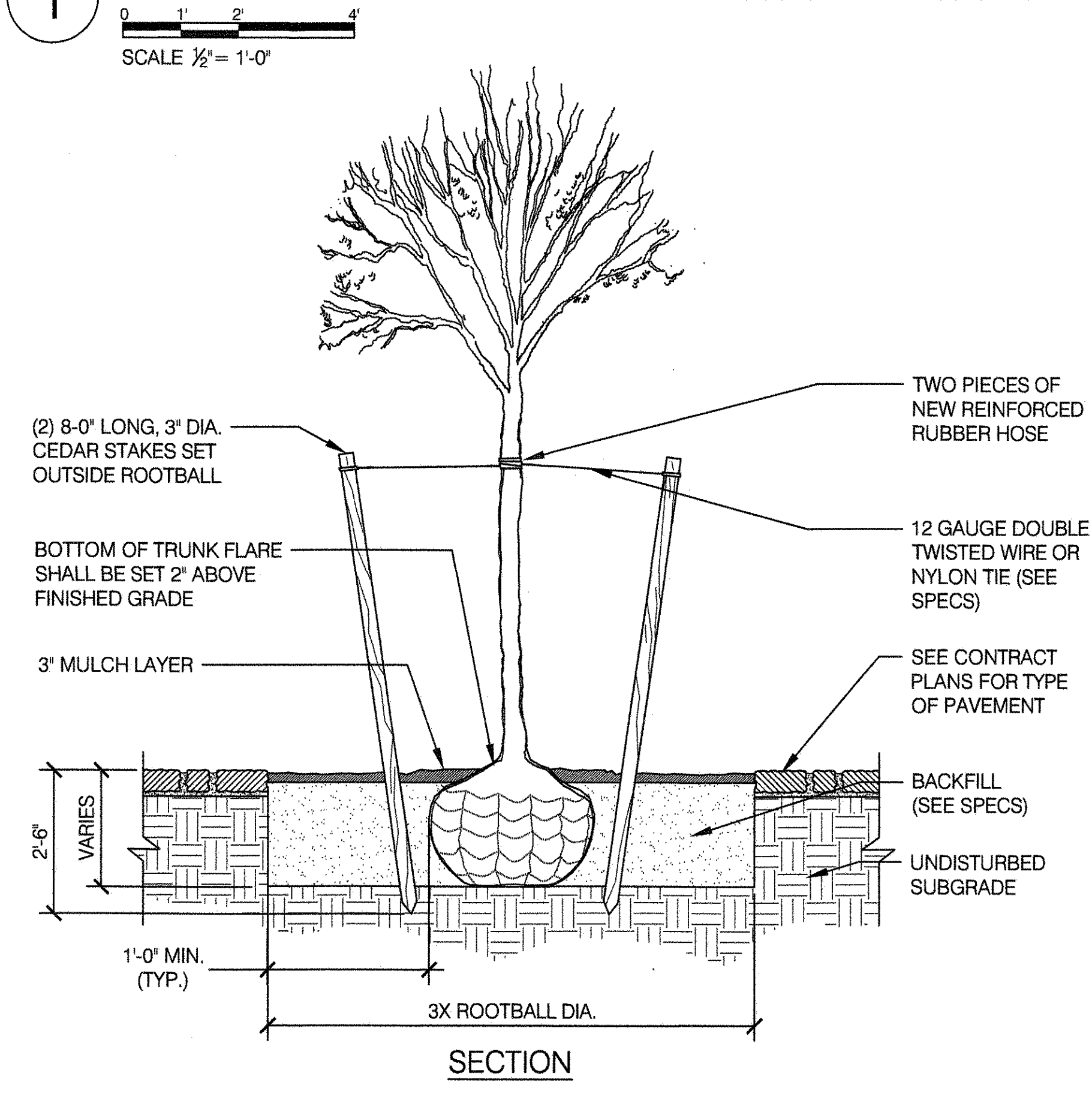
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FLUSHING, NEW YORK 11368

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DRAWING TITLE
SAFETY SURFACE DETAILS

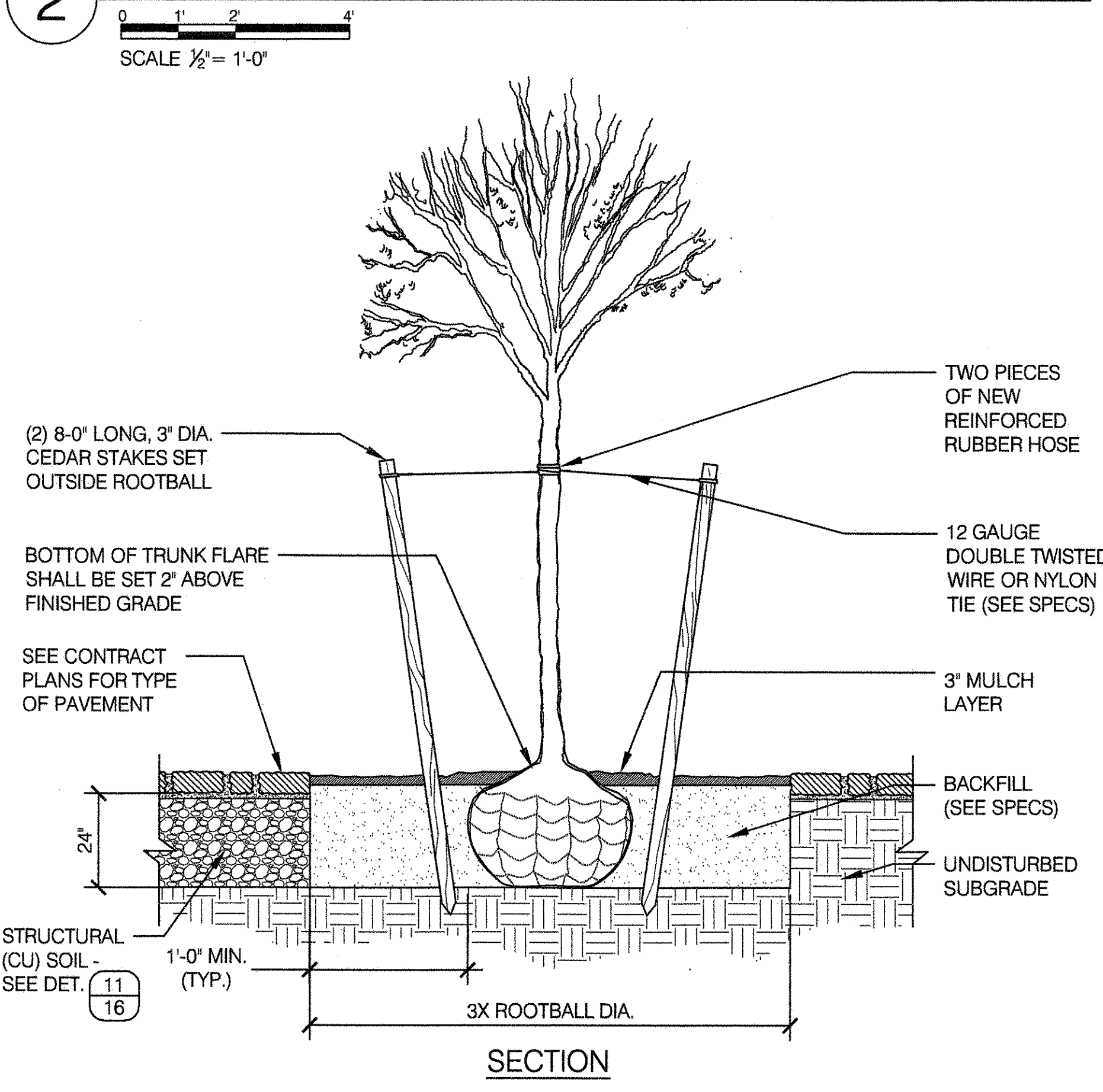
DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY STANDARD D.P.R. DETAIL	TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 57
DATE 09-01-2020	SCALE AS SHOWN



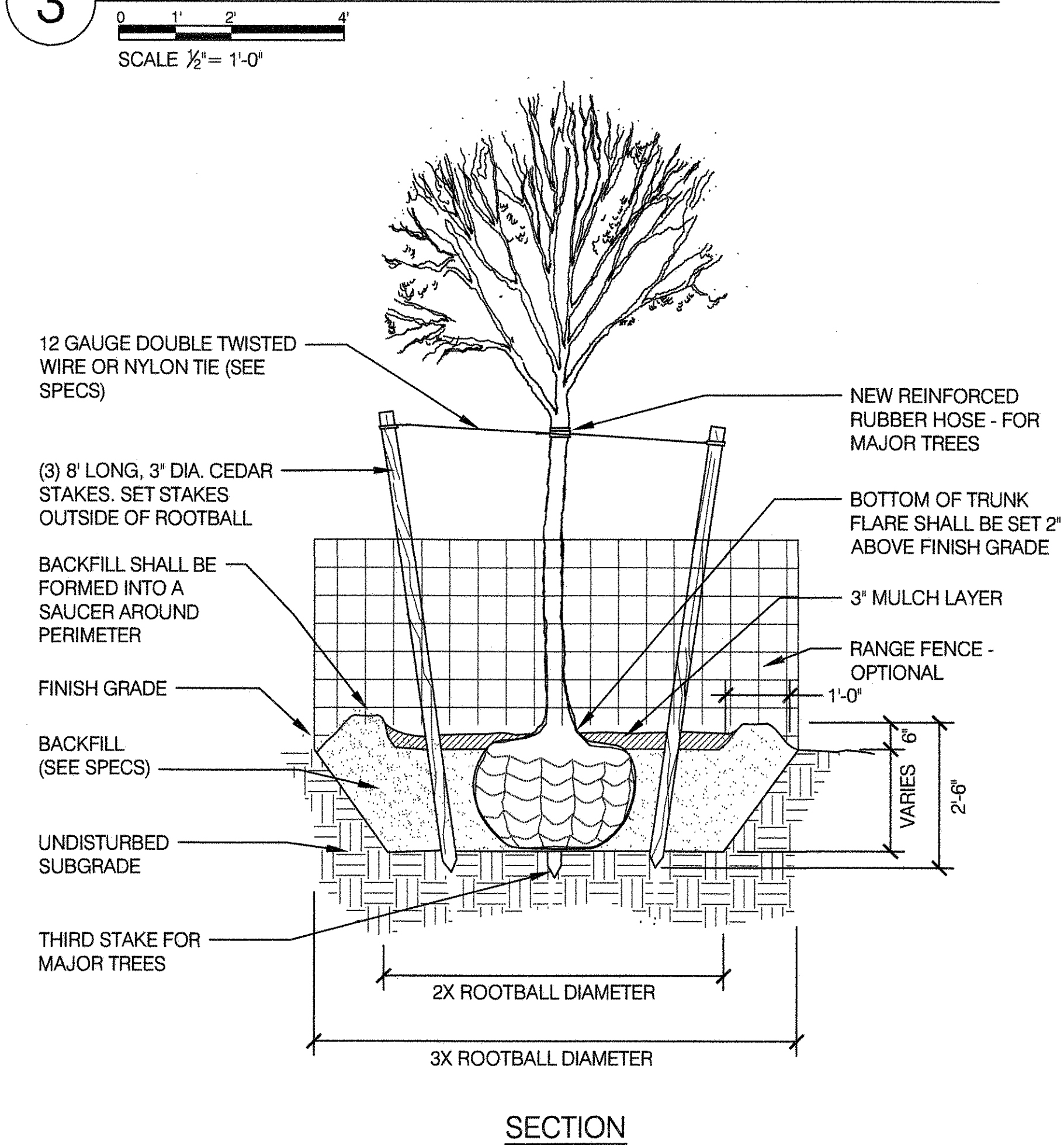
1 MAJOR TREE IN PAVED AREA



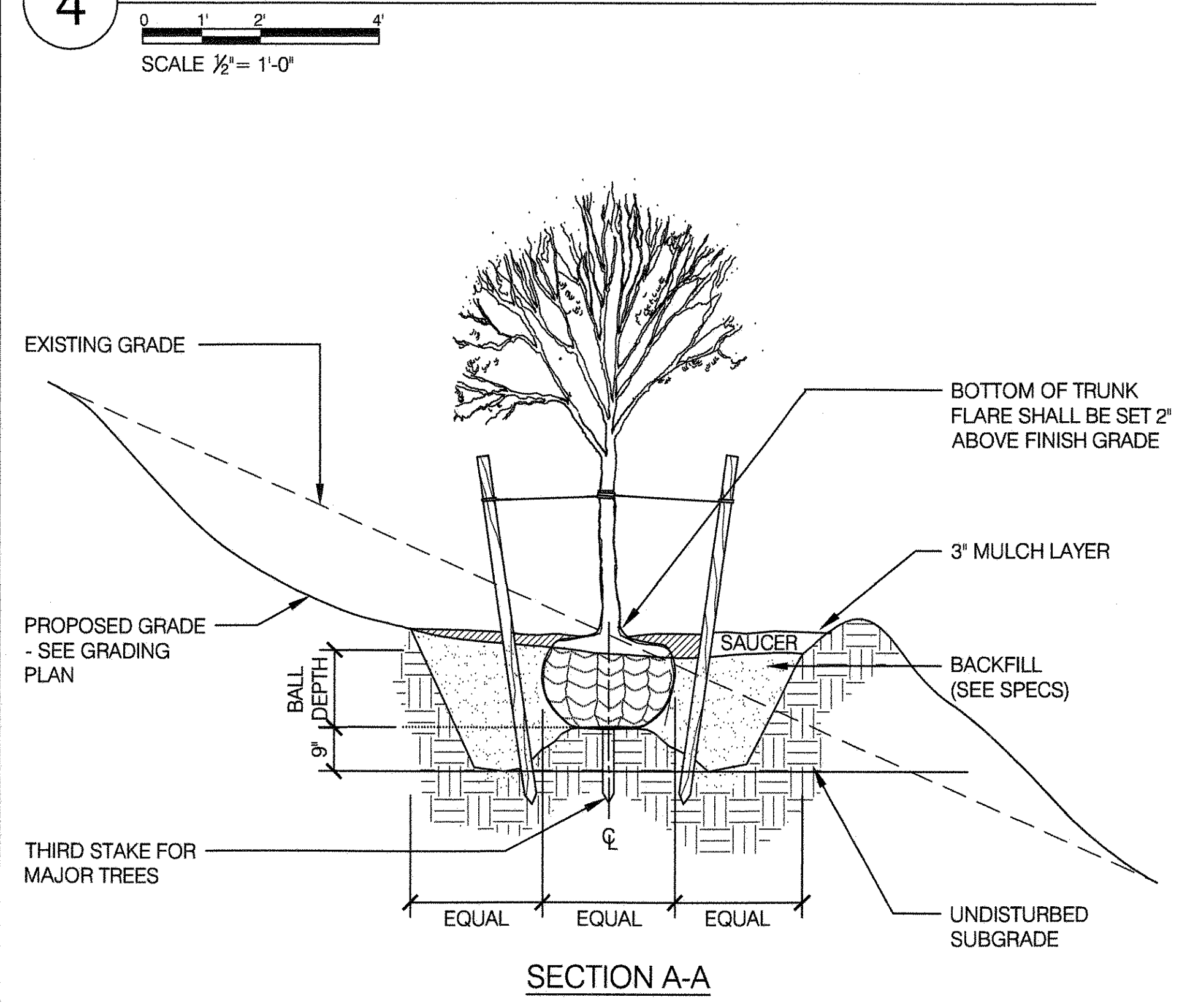
2 MAJOR TREE IN PAVED AREA IN STRUCTURAL SOIL



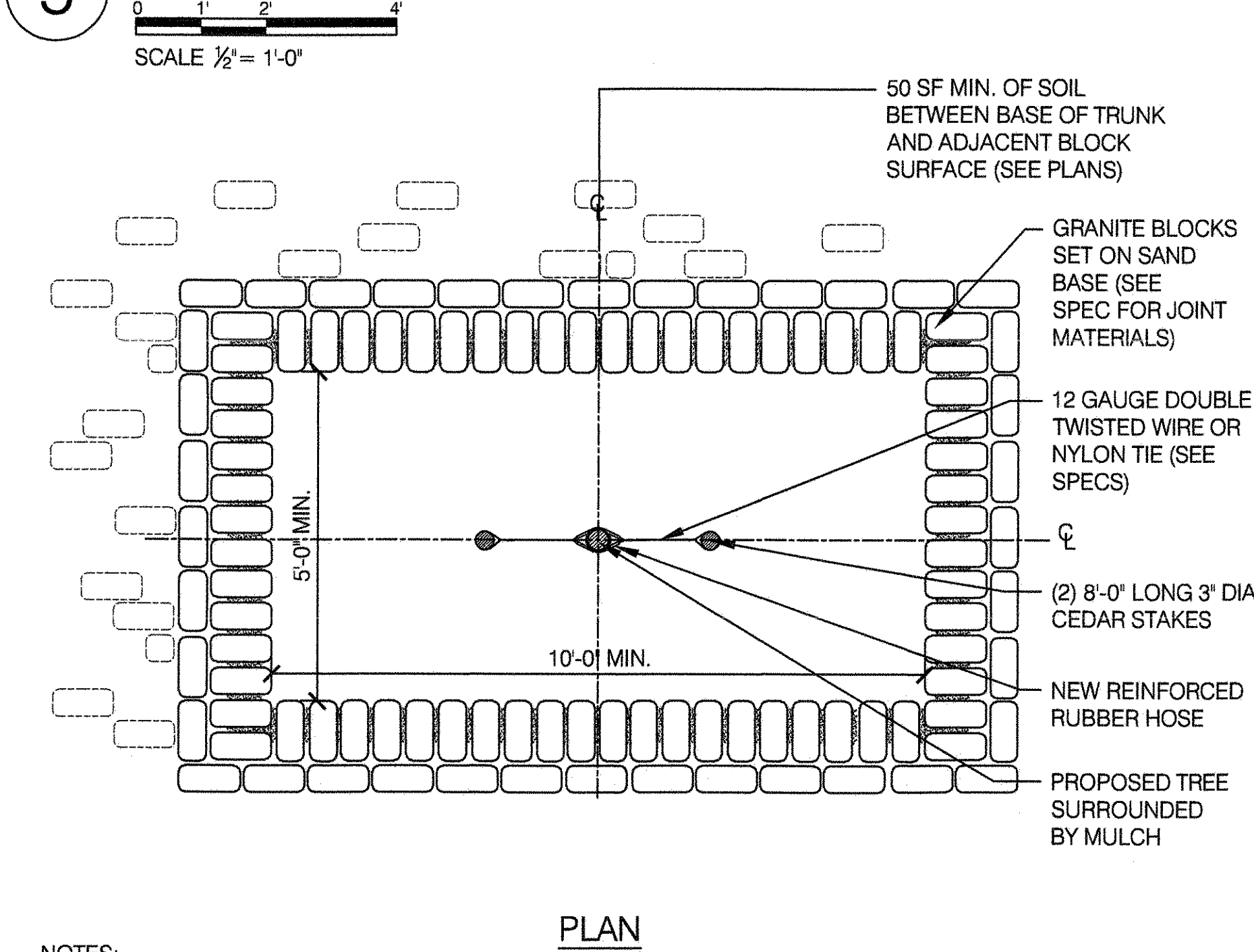
3 MAJOR OR MINOR TREE IN NON-PAVED AREA



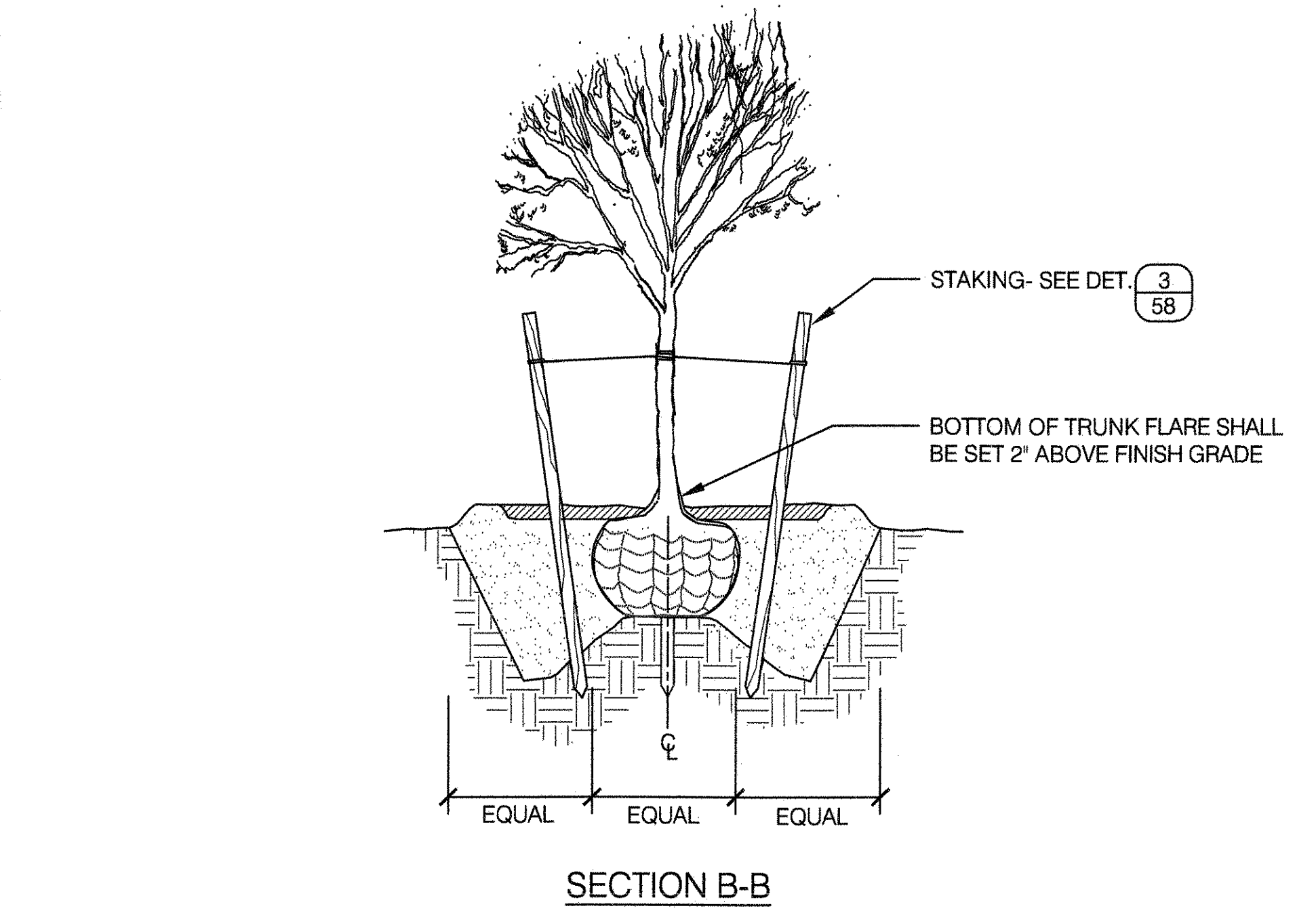
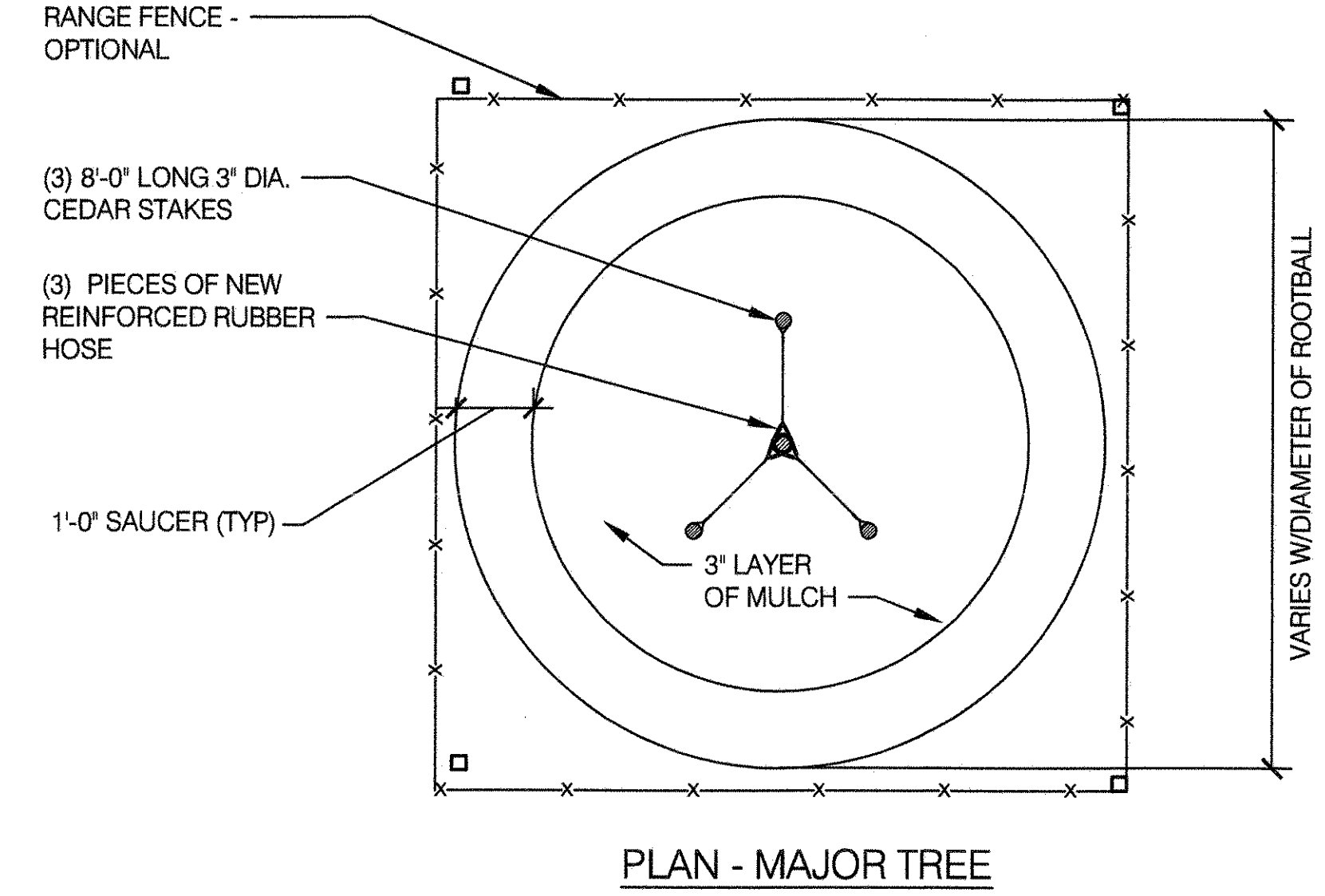
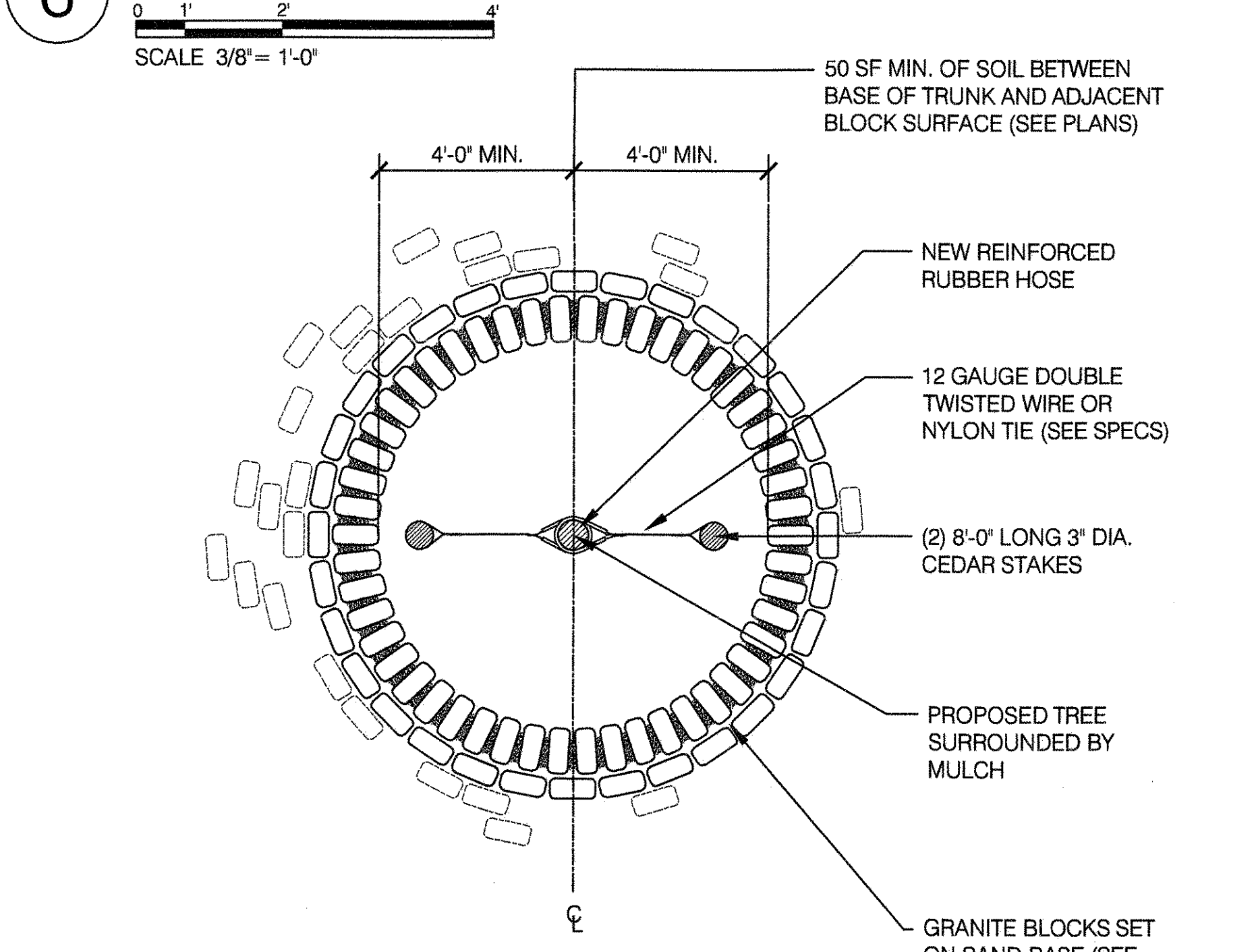
4 TREE PIT ON SLOPE - 1:2 MAX



5 RECTANGULAR TREE PIT WITH GRANITE BLOCK

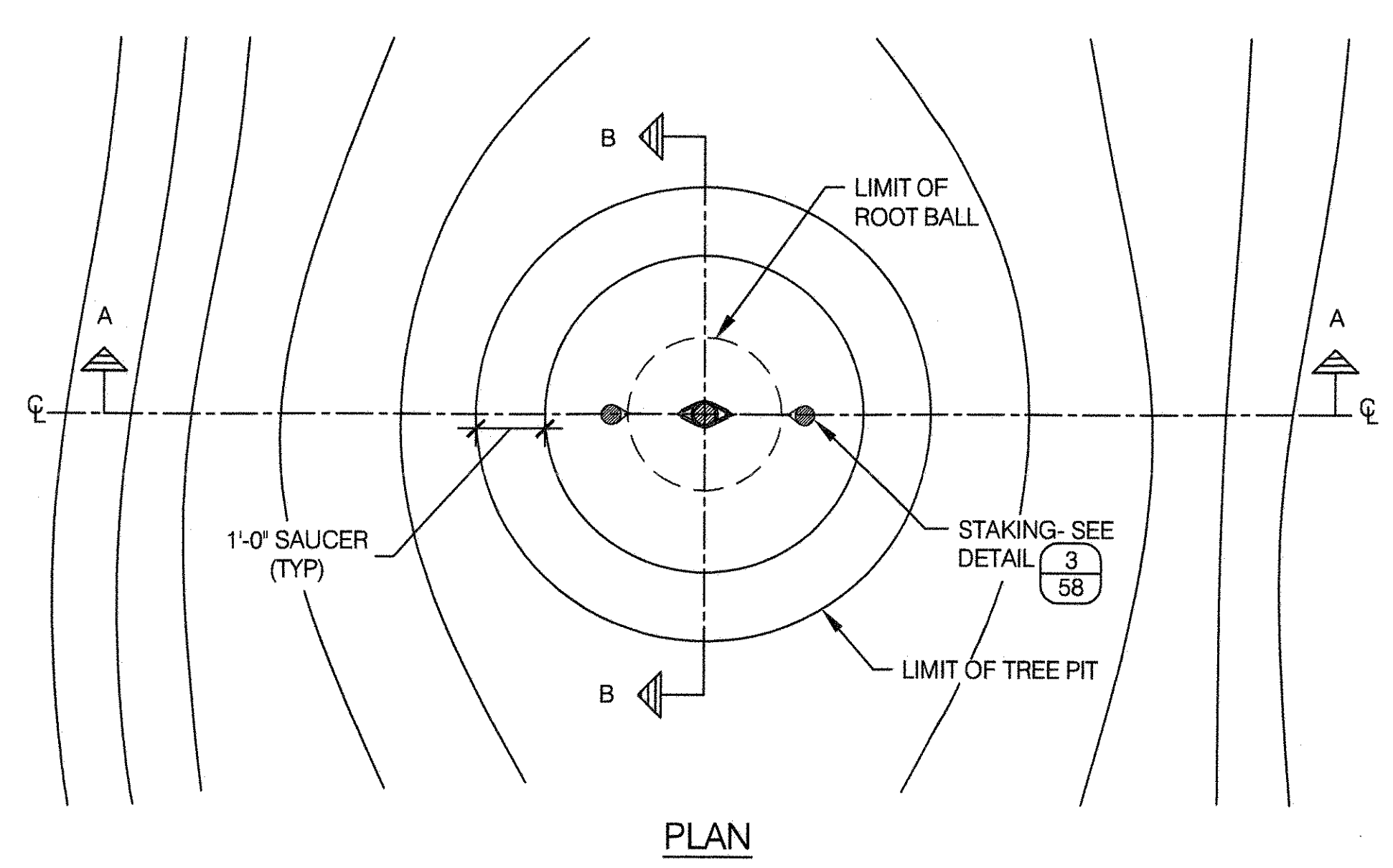
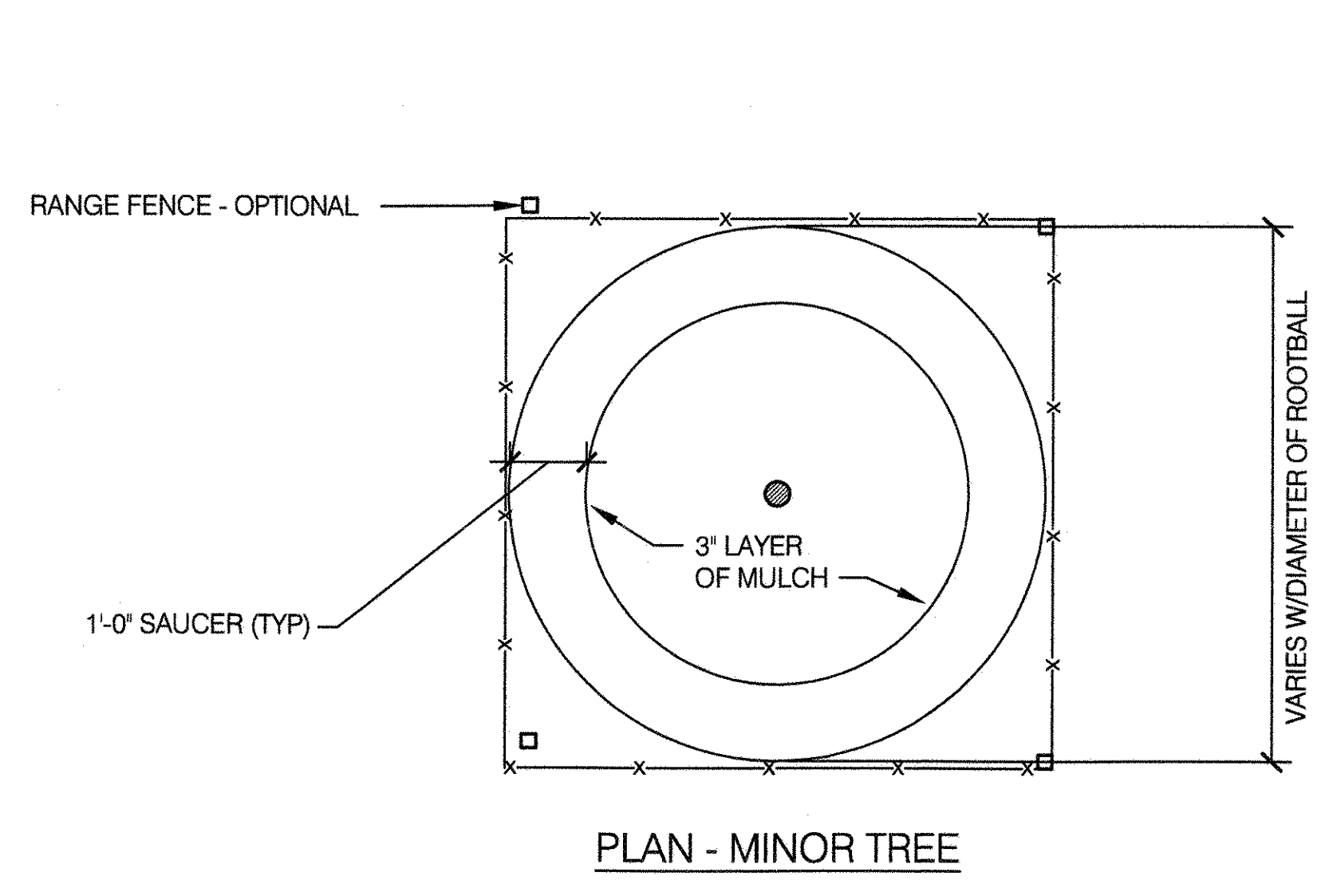


6 ROUND TREE PIT WITH GRANITE BLOCK

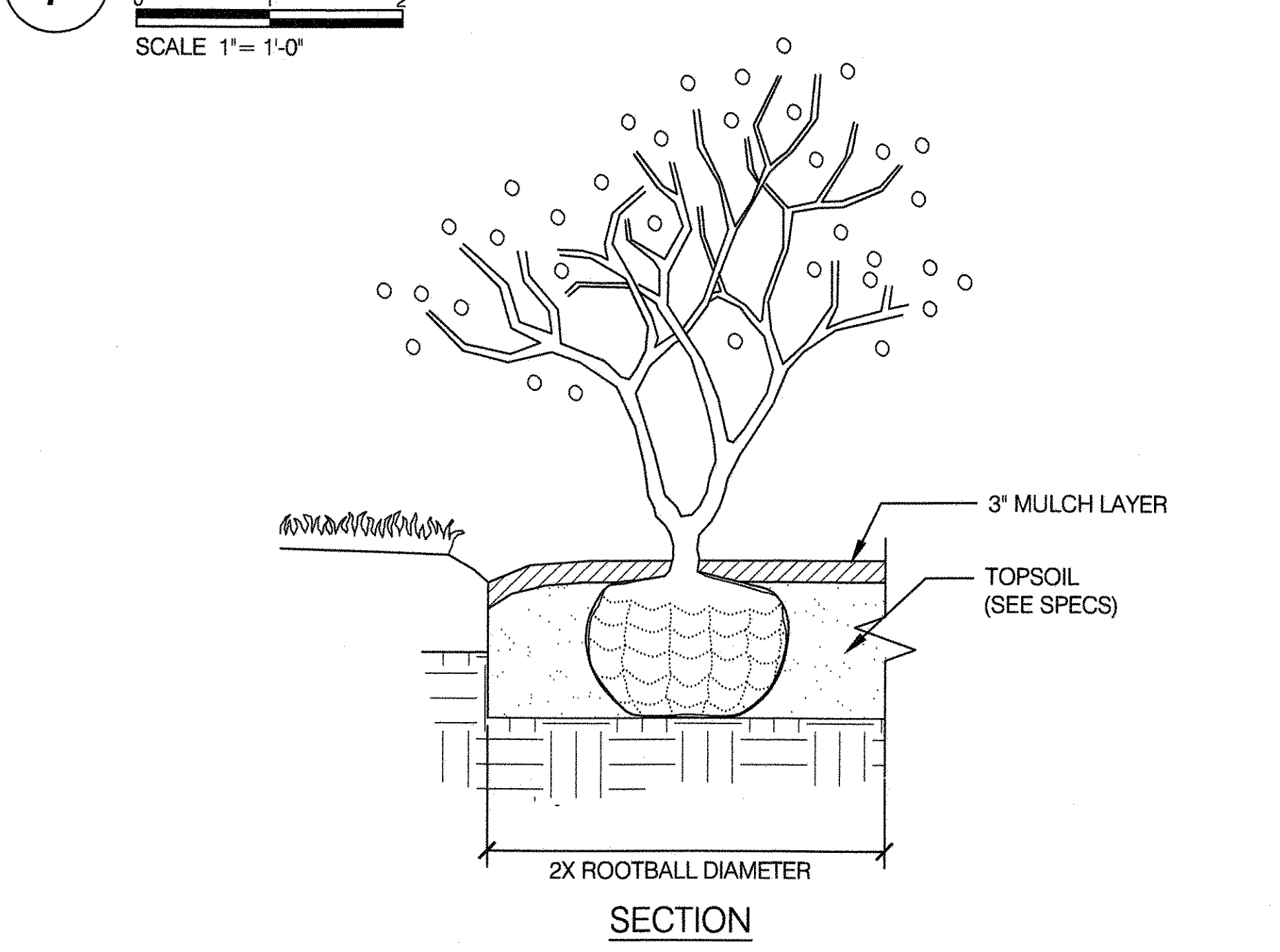


NOTES:
 1. THIS DETAIL SHOWS A TYPICAL LAYOUT FOR GRANITE BLOCK; FOR MATERIALS REQUIRED OR PAVER LAYOUT, SEE CONTRACT DETAIL.
 2. FOR GRANITE BLOCK INSTALLATION - SEE DET. (12/15) OR (13/15)

NOTES:
 1. THIS DETAIL SHOWS A TYPICAL LAYOUT FOR GRANITE BLOCK; FOR MATERIALS REQUIRED OR PAVER LAYOUT, SEE CONTRACT DETAIL.
 2. FOR GRANITE BLOCK INSTALLATION - SEE DET. (12/15) OR (13/15)

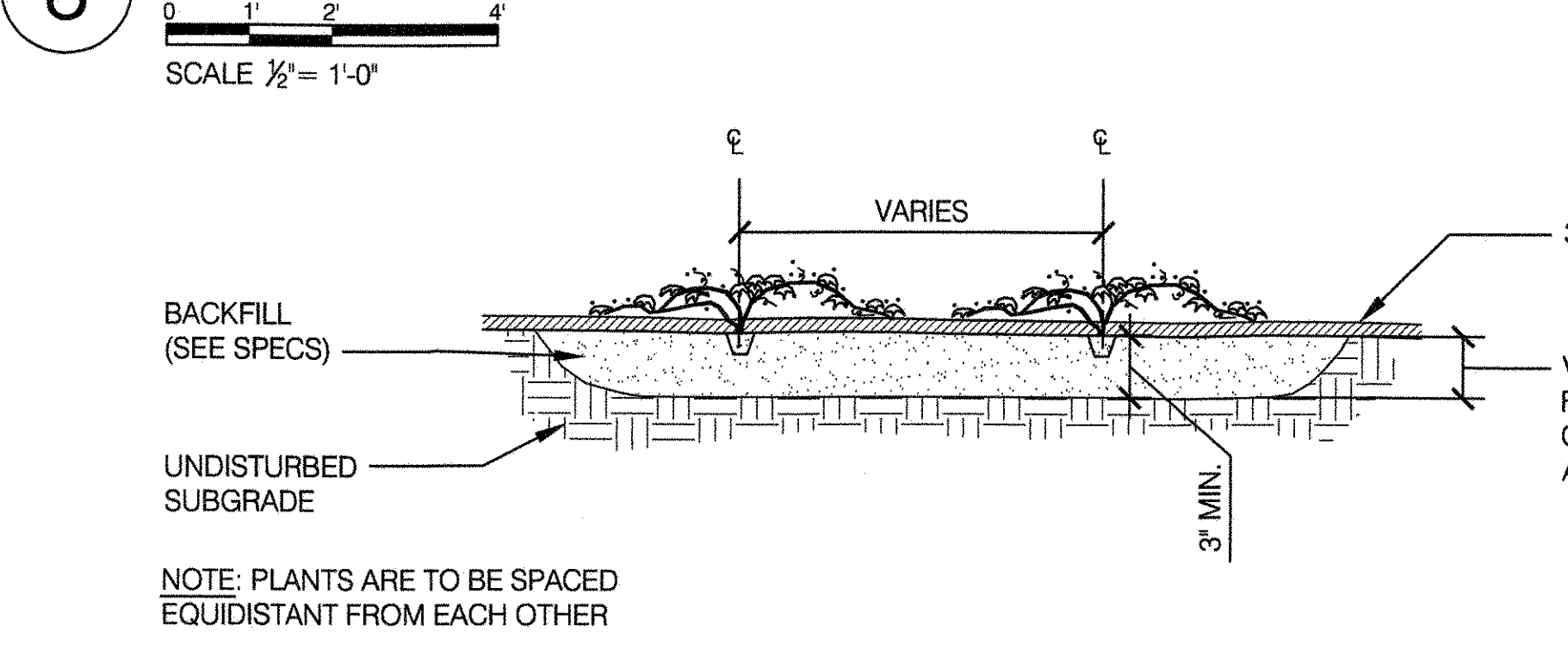


7 SHRUB PLANTING DETAIL



- GENERAL PLANTING NOTES:**
- REMOVE TOP TWO THIRDS OF WIRE BASKET AND WRAP;
 - INSTALL OR CUT STAKES TO WITHIN 4 INCHES OF TOP OF GUYING WIRE OR TIE;
 - CONCRETE CURB AND GRANITE BLOCK DETAILS ARE DIAGRAMMATIC - SEE PLANS;
 - DETAILS DO NOT PERTAIN TO EXISTING TREES. NEW TREES ONLY;
 - BACKFILL MATERIAL FOR TREE AND SHRUB PLANTING SHALL BE EXISTING SOIL UNLESS OTHERWISE DIRECTED;
 - PERENNIAL AND GROUND COVER PLANTING BEDS SHALL CONSIST OF A MINIMUM OF 9 INCHES OF NEW TOPSOIL FOR PLANTING PITS AND BEDS;
 - MAJOR TREES SHALL BE DEFINED AS TYPE 1 OR TYPE 2 SHADE TREES, MINOR TREES SHALL BE DEFINED AS TYPE 3, TYPE 4 SHAPE TREES WITH MULTIPLE STEMS AS DESCRIBED BY AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1
 - STAKING IS REQUIRED FOR MAJOR TREES. STAKING IS NOT REQUIRED FOR MINOR TREES, CONIFERS, BROADLEAF EVERGREENS, OR SHRUBS.
 - THE DETAILS ON THIS SHEET ARE INTENDED FOR INSTALLATION WITHIN PARK INTERIOR. FOR STREET TREE PLANTING STANDARDS, SEE - <https://www.nycgovparks.org/pagefiles/53/Tree-Planting-Standards.pdf>

8 PERENNIAL AND GROUND COVER PLANTING



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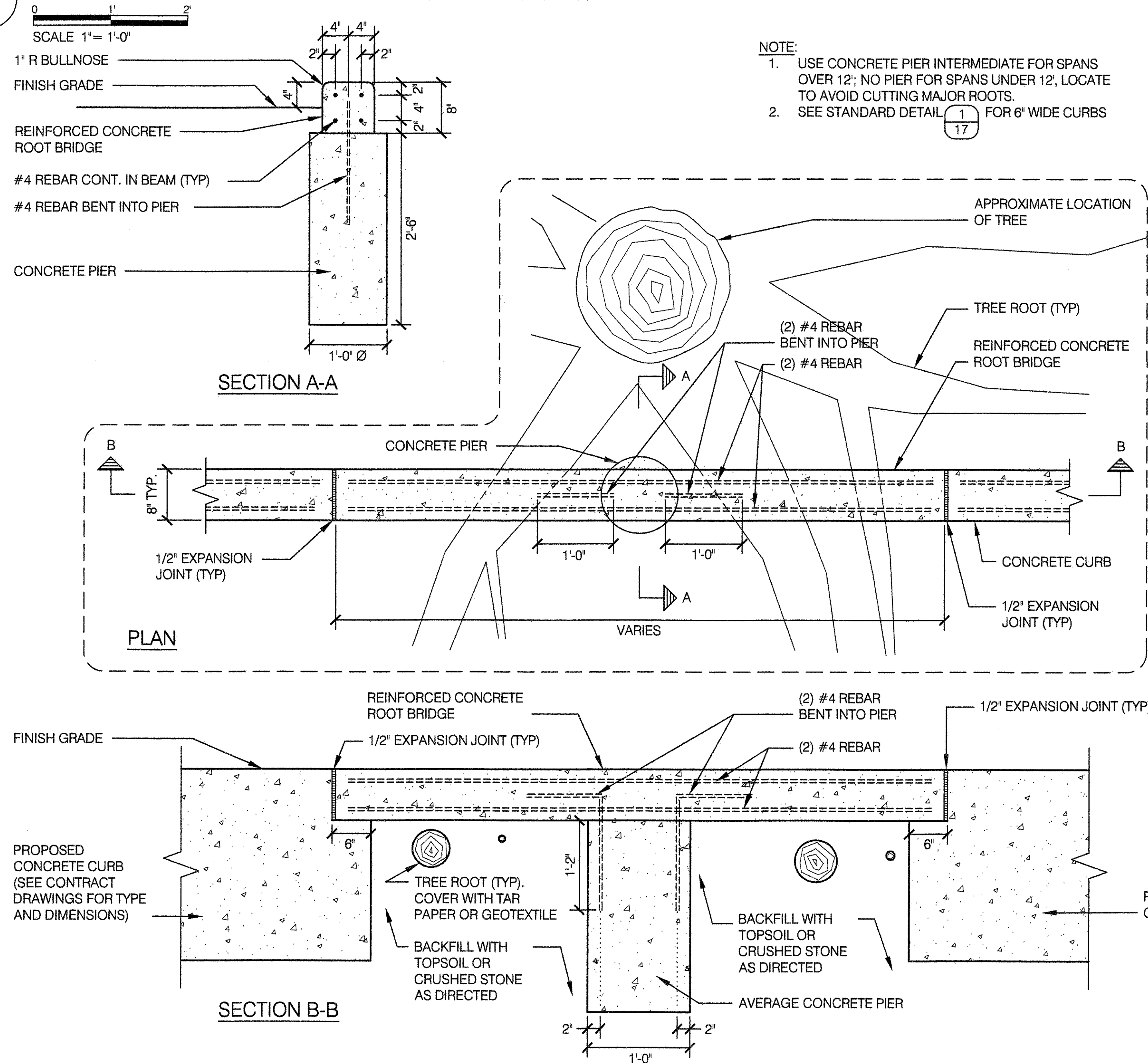
NYC Parks

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 DRAWING TITLE
 PLANTING DETAILS

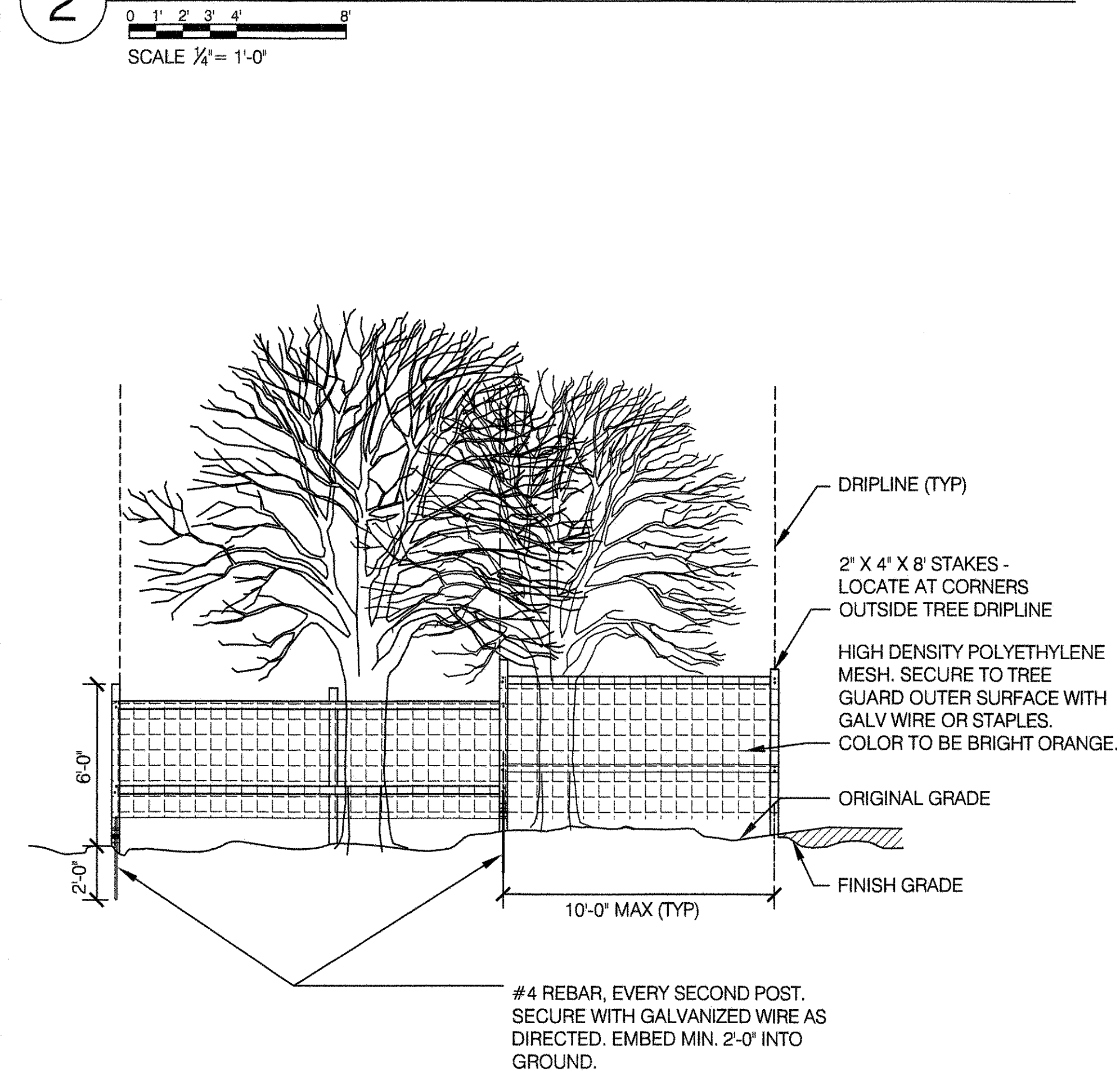
DRAWN BY STAFF	CHECKED BY R. WEI, PE
APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY S. WEI, PE	SHEET NO. 58
DATE 09-01-2020	SCALE AS SHOWN

STATE OF NEW YORK
 RUBY S. WEI
 091042
 LICENSED PROFESSIONAL ENGINEER

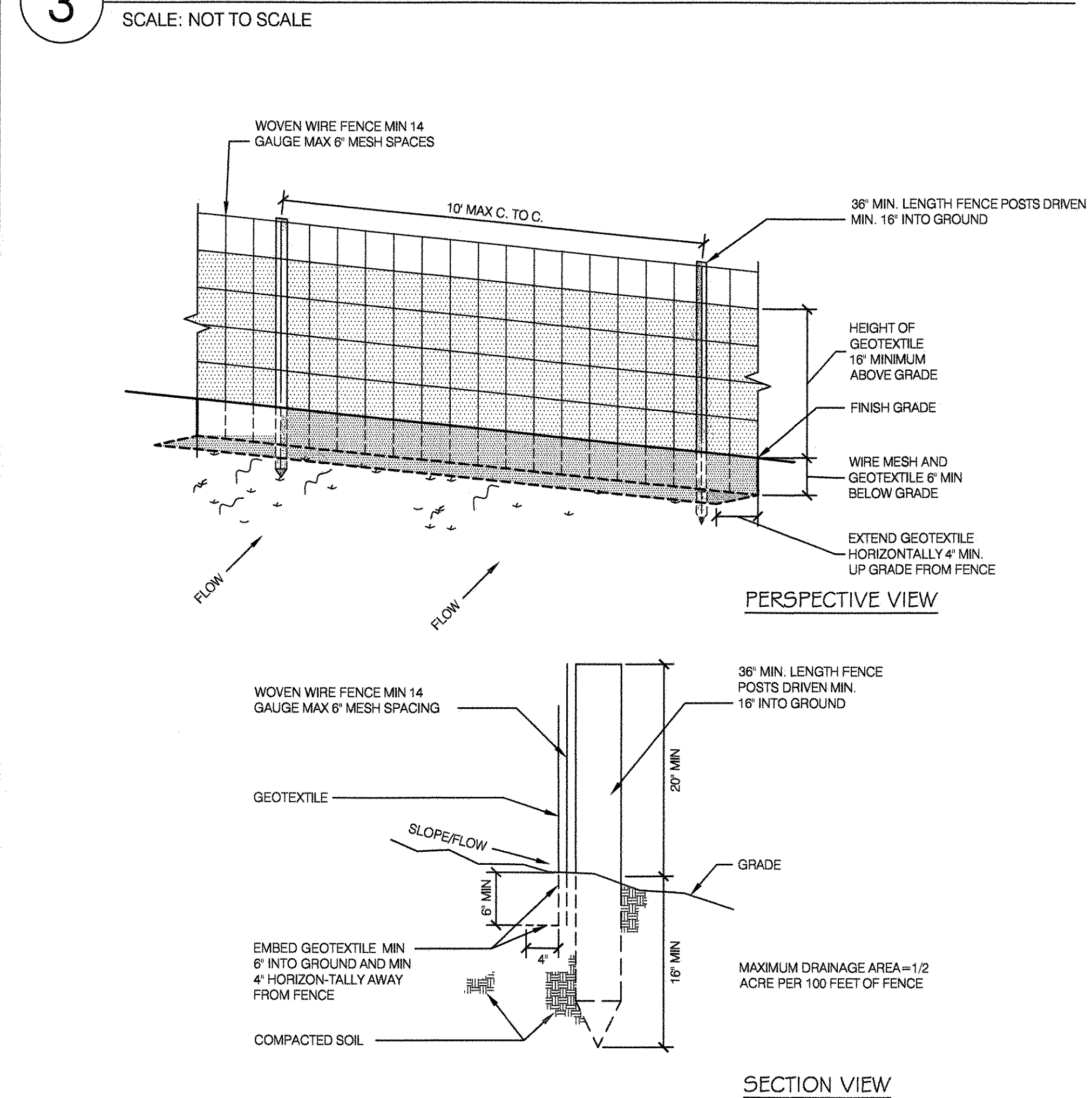
1 TREE ROOT BRIDGE



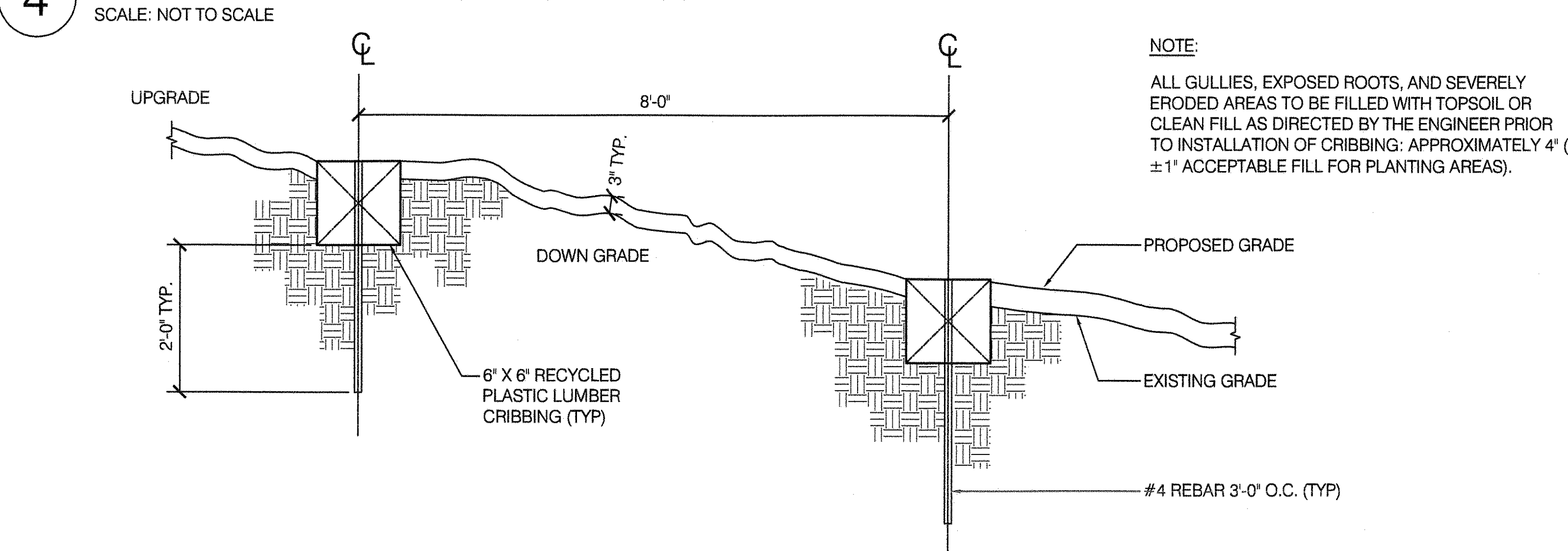
2 TREE GUARD FOR GROVES



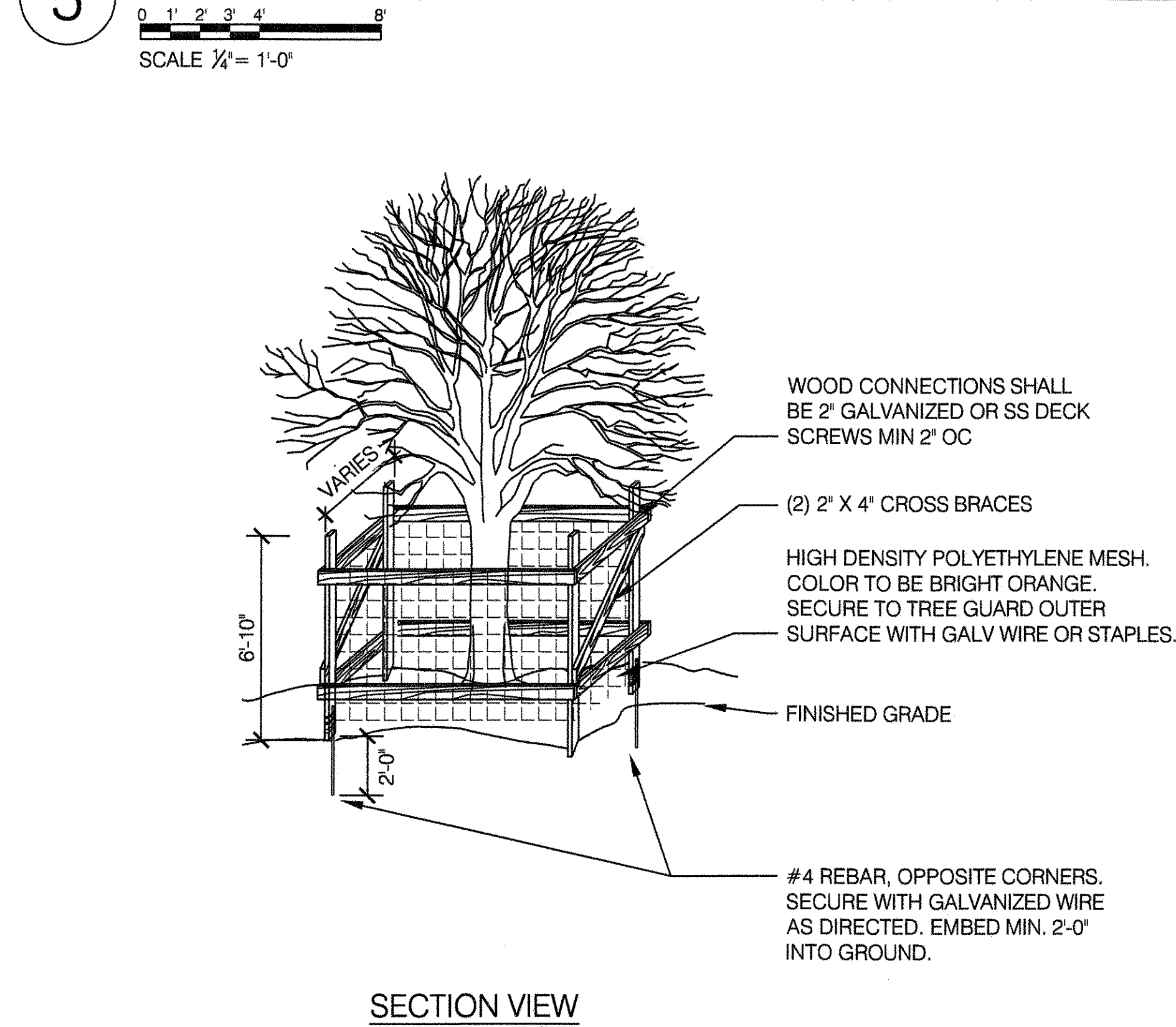
3 SILT FENCE DETAILS



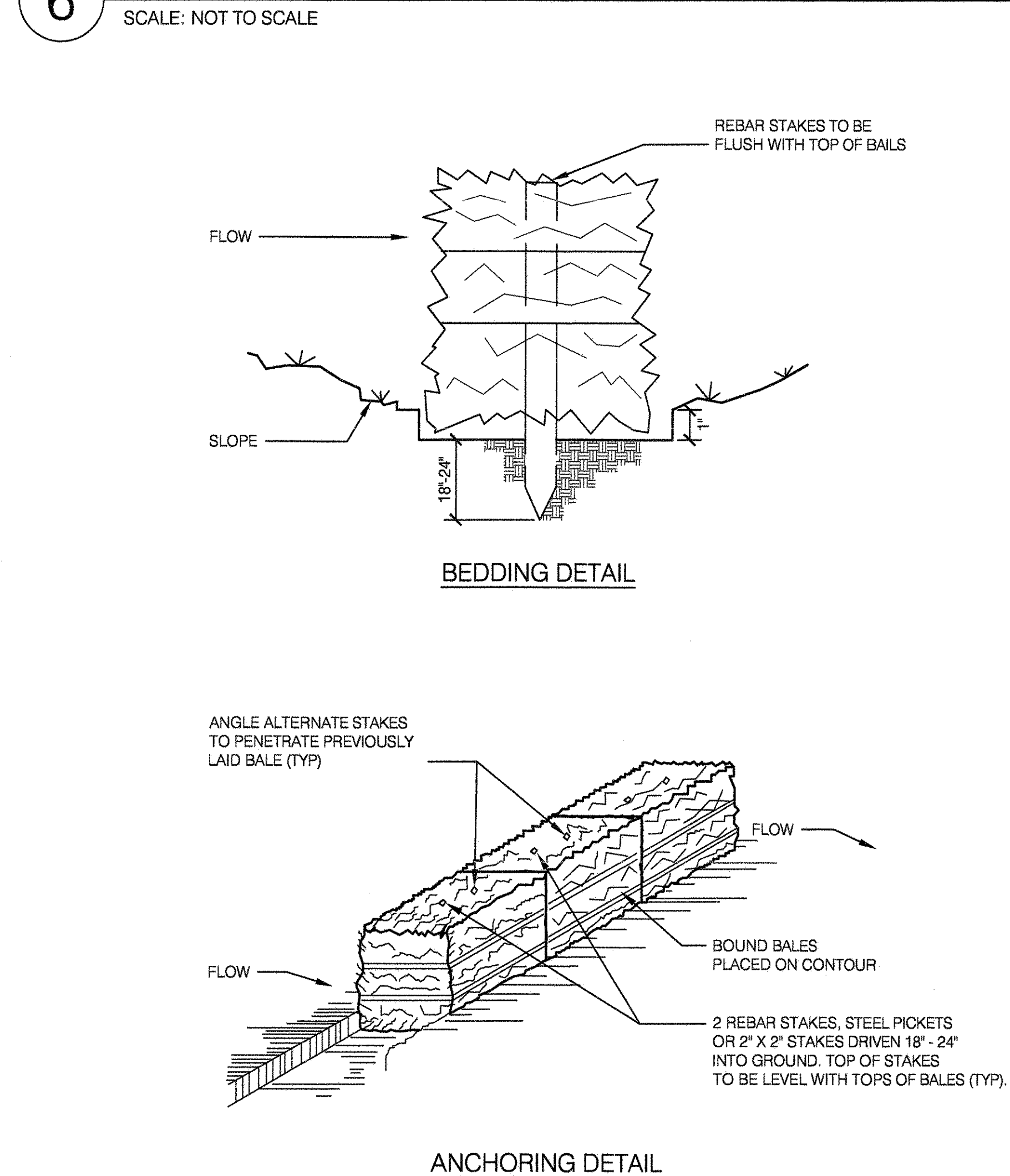
4 TYPICAL CRIBBING



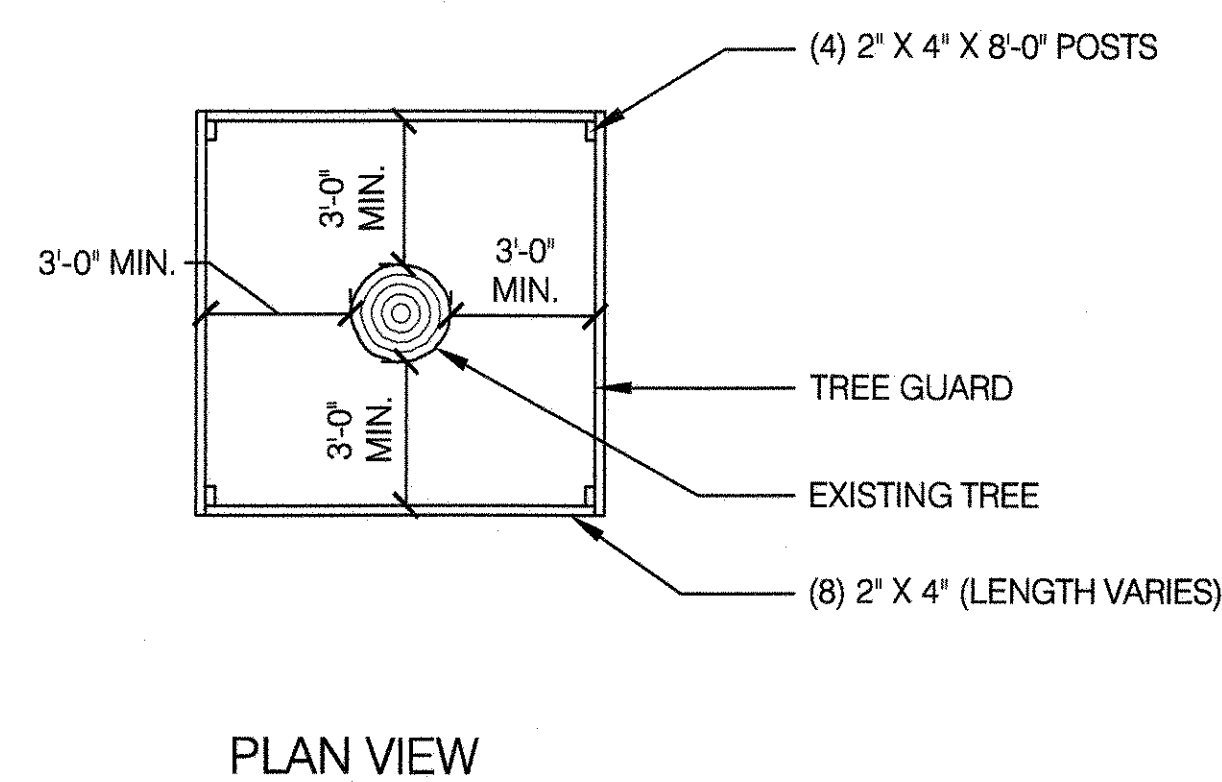
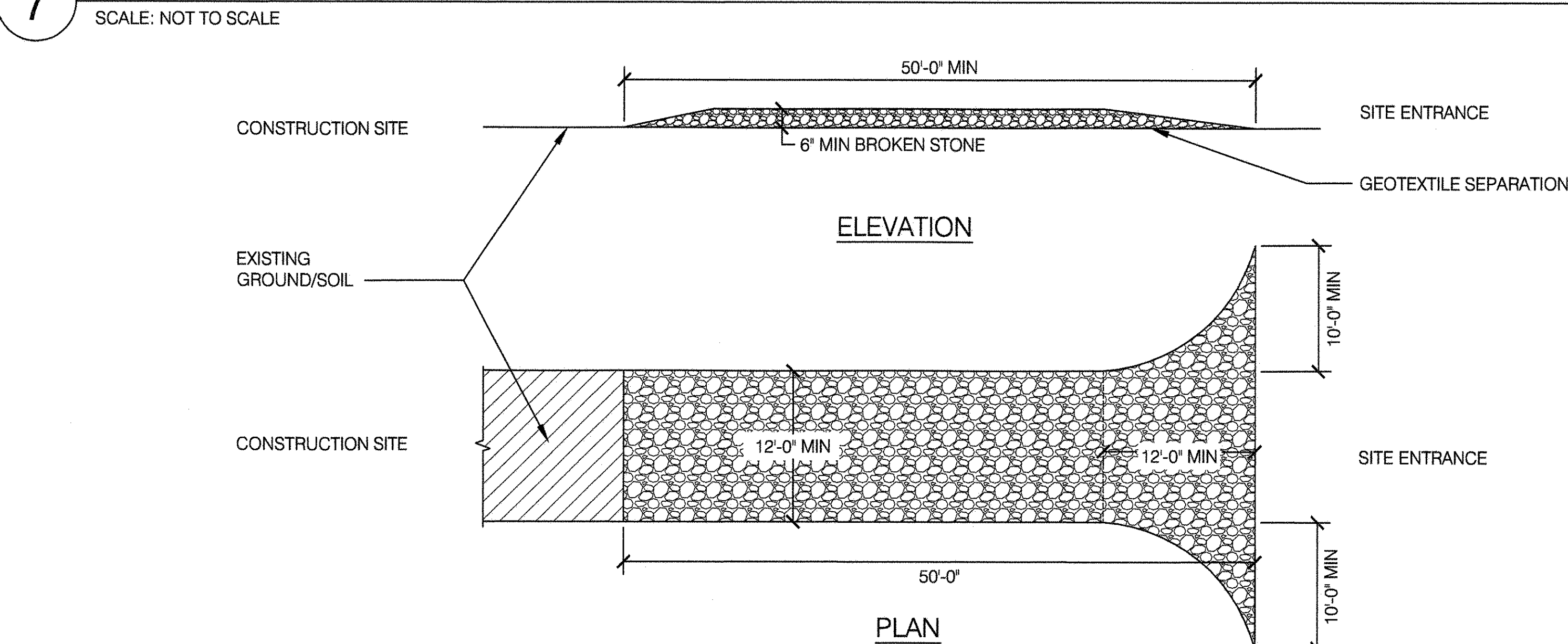
5 TREE GUARD



6 STRAW BALE DIKE DETAILS



7 STABILIZED CONSTRUCTION ENTRANCE



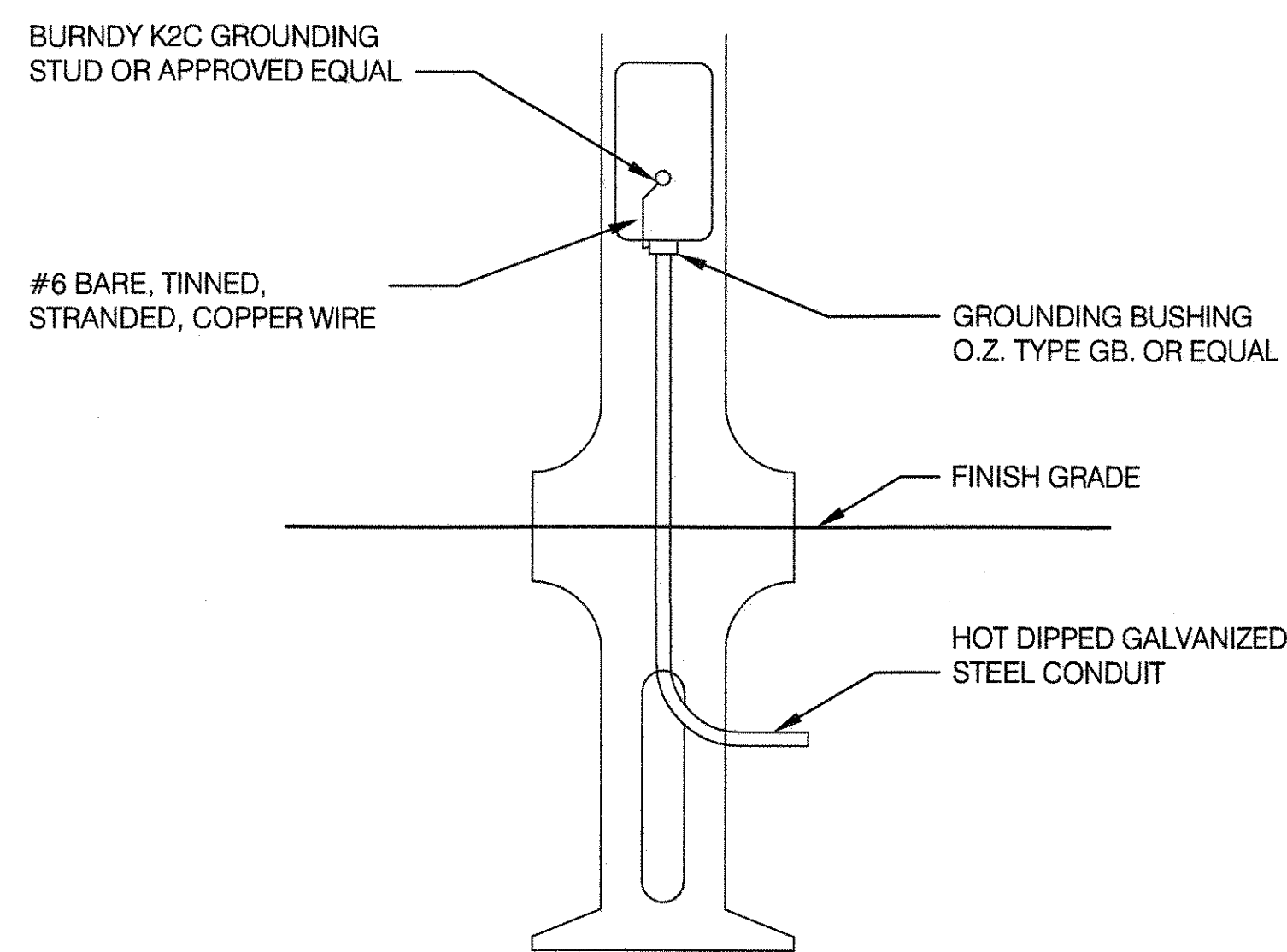
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 FLUSHING, NEW YORK 11368

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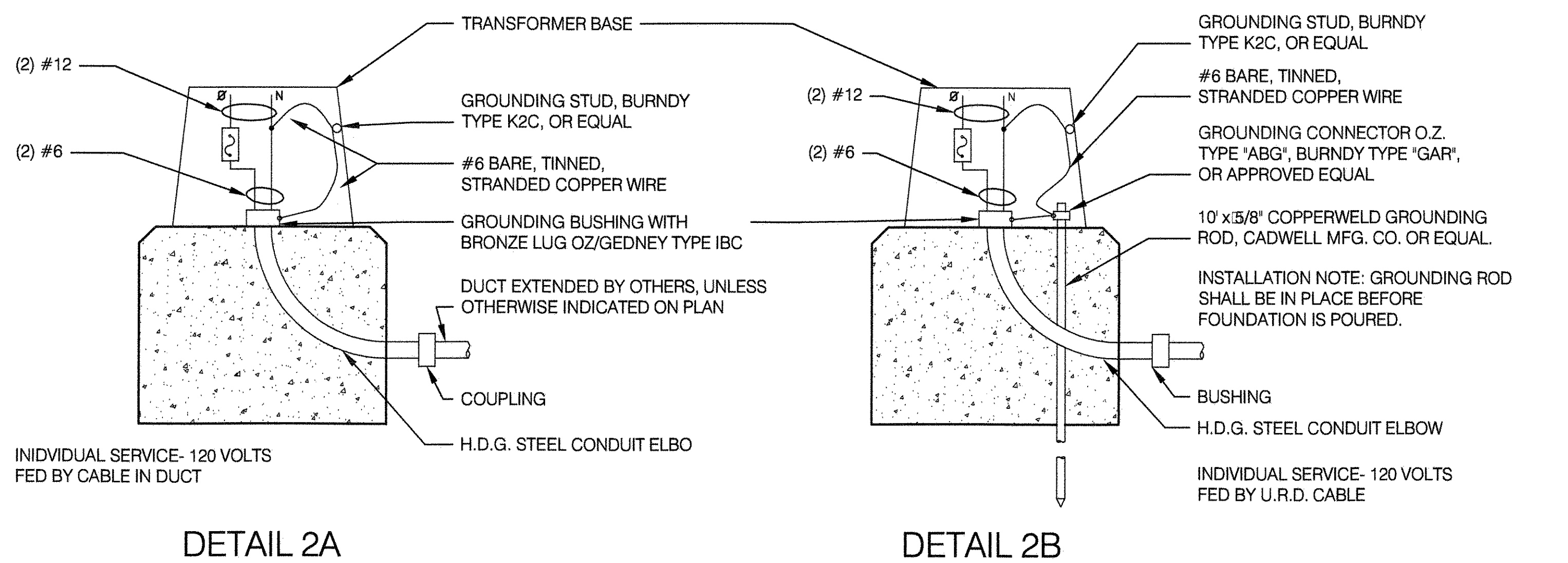
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 DRAWING TITLE
TREE PROTECTION AND SEDIMENT CONTROL

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APPROVED BY RUBY S. WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR	SHEET NO. 59
DATE 09-01-2020	SCALE AS SHOWN

1 TYPE "B" LAMP POST (TYPE WF LAMP POST SIMILAR)

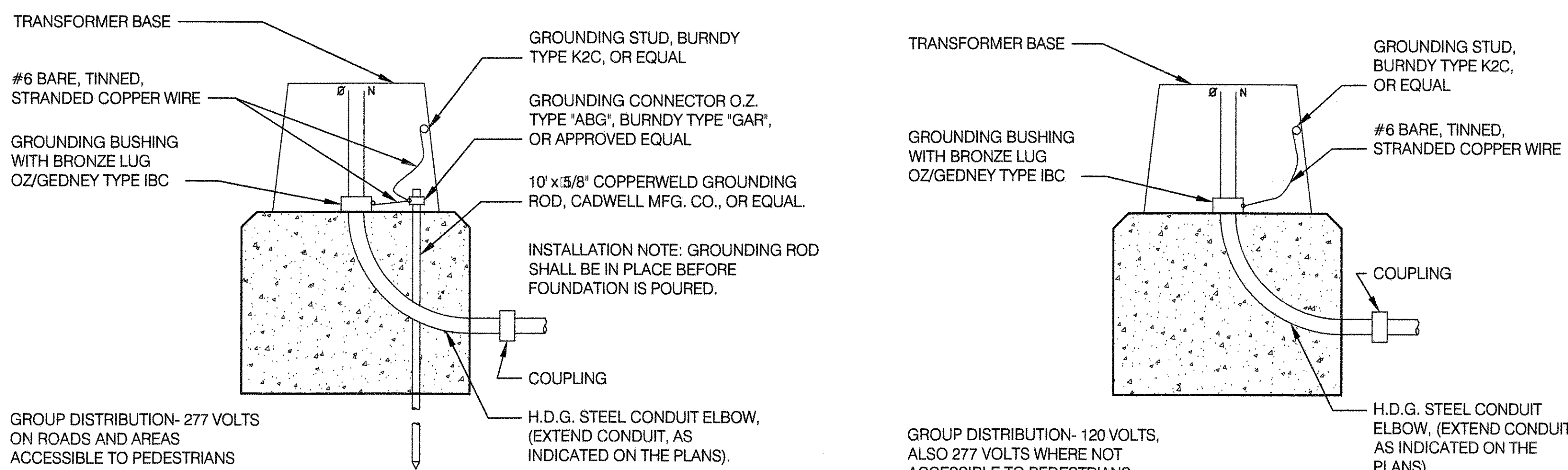


2 DETAIL 2



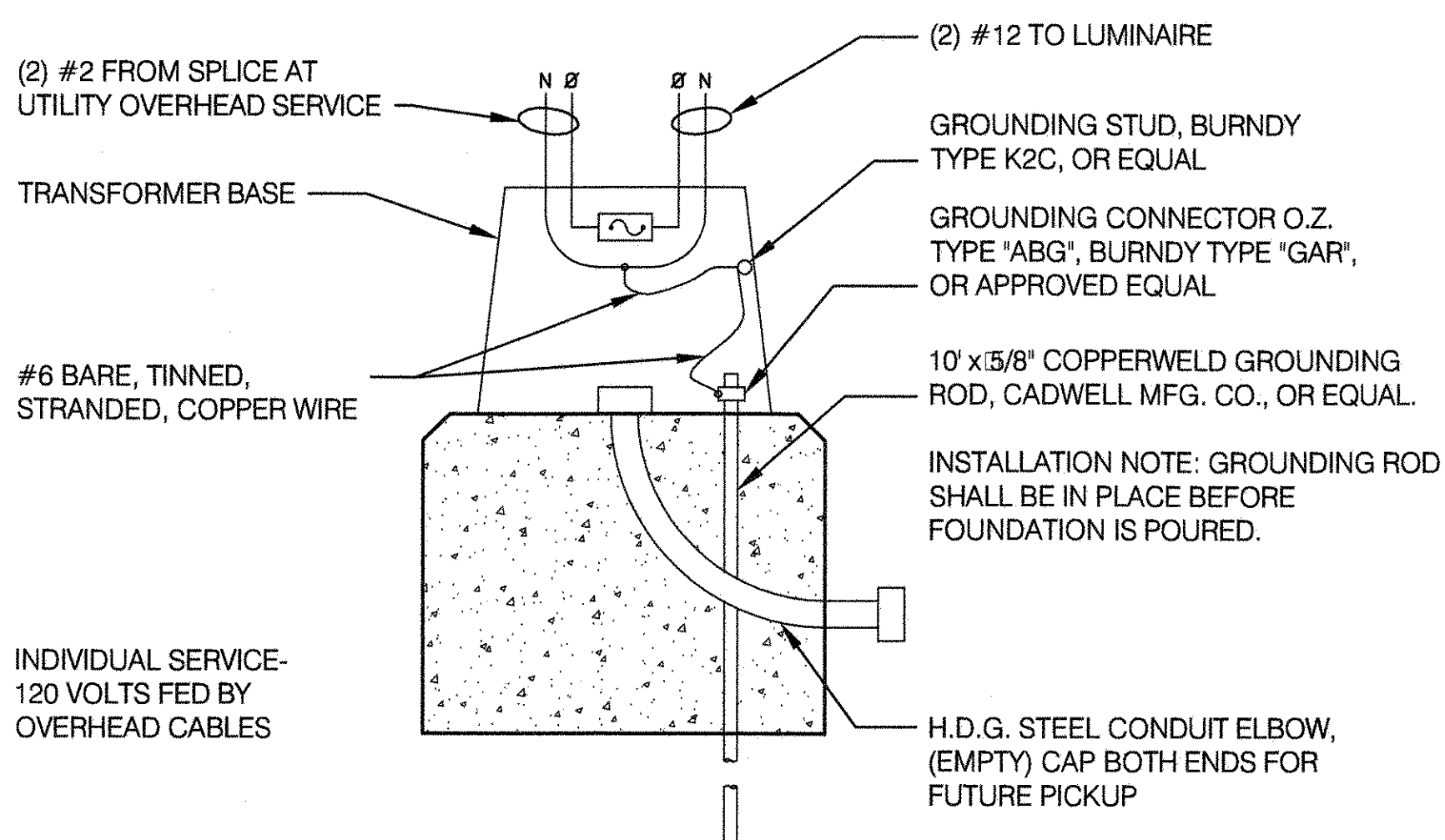
DETAIL 2A

DETAIL 2B



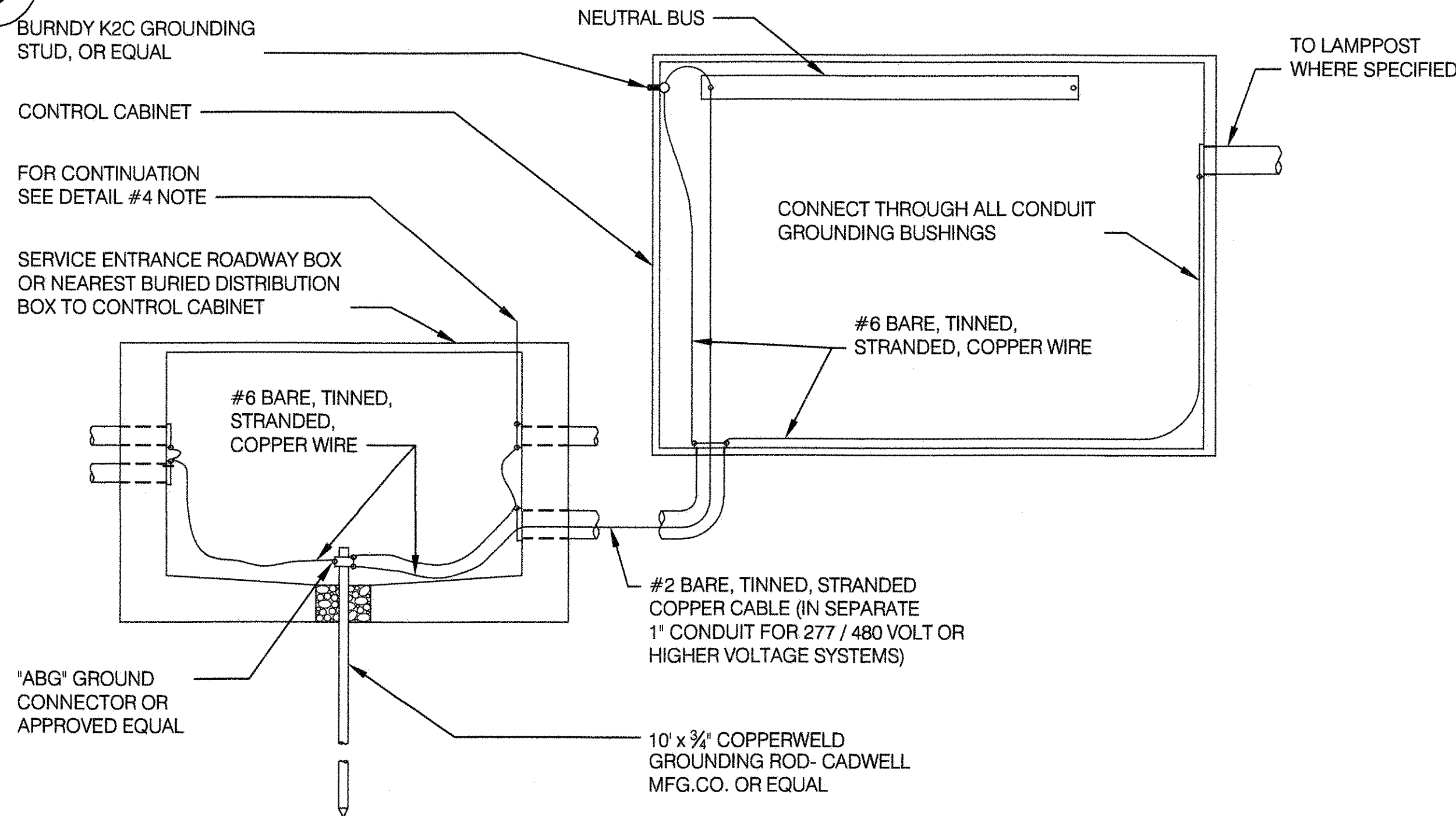
DETAIL 2C

DETAIL 2D

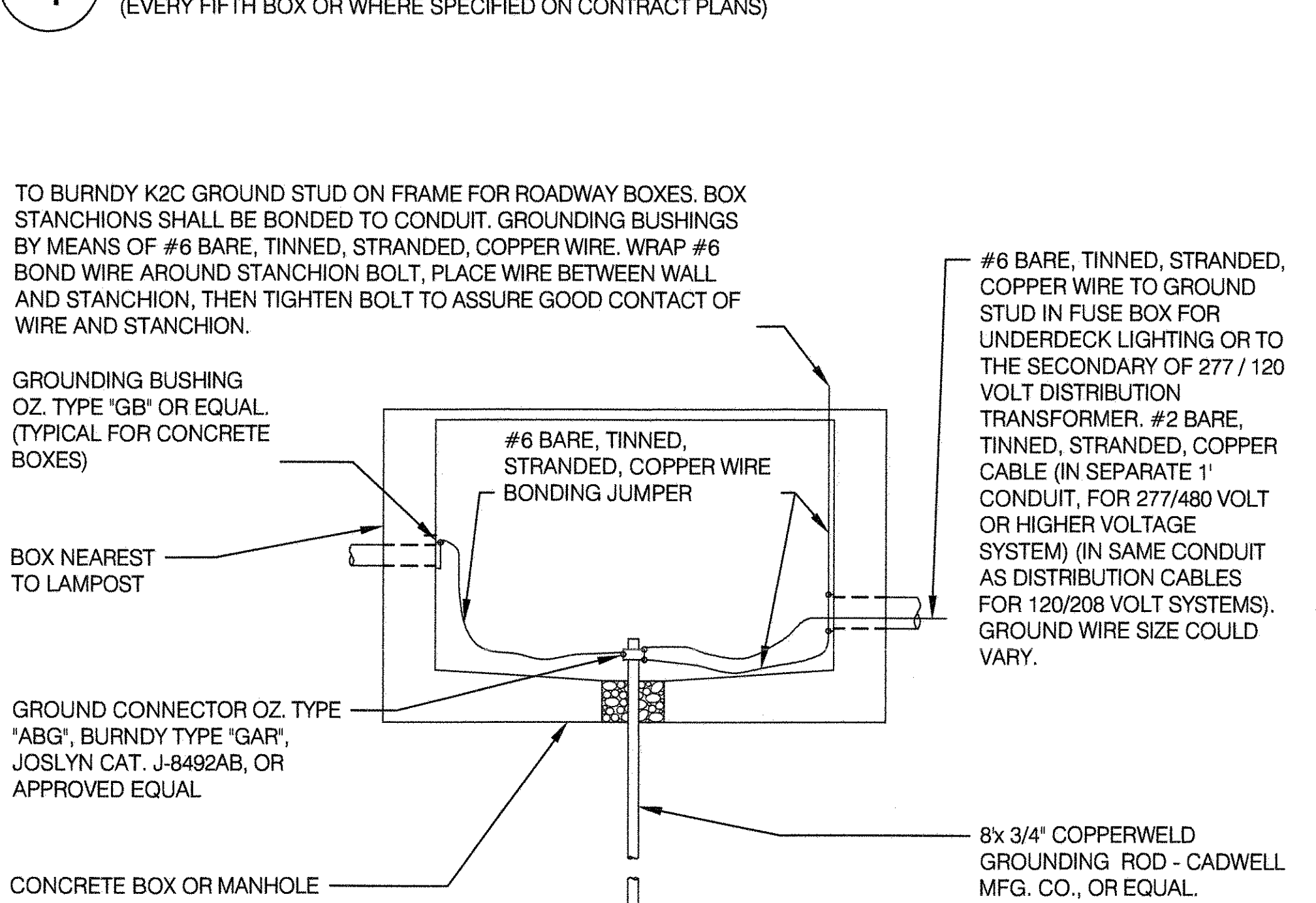


DETAIL 2E

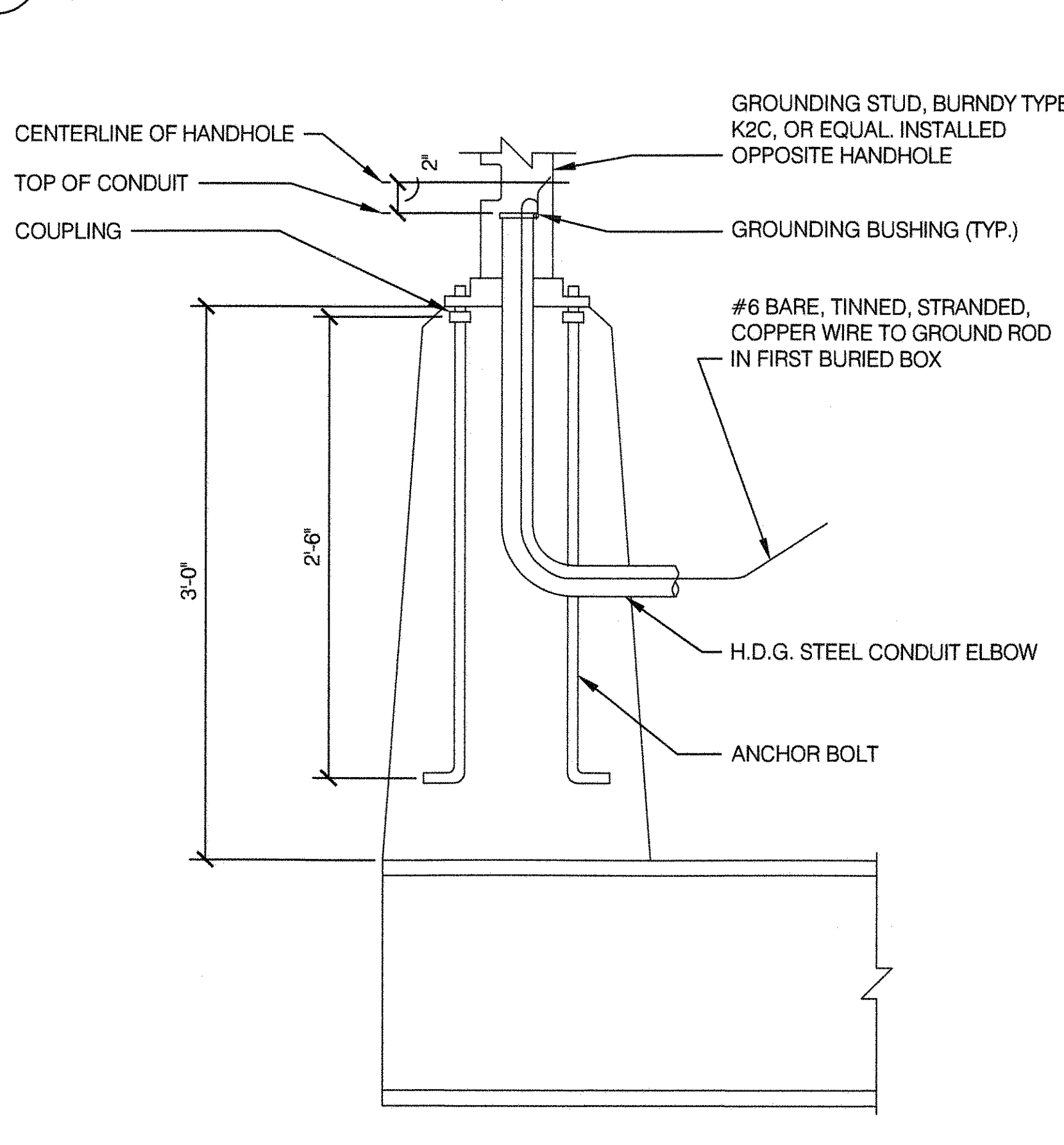
3 SERVICE ENTRANCE GROUNDING



4 BOX DETAIL (EVERY FIFTH BOX OR WHERE SPECIFIED ON CONTRACT PLANS)



5 LAMP POST ON STRUCTURE (WIRING IN TRAFFIC SIGN SUPPORT SIMILAR)



NOTES:

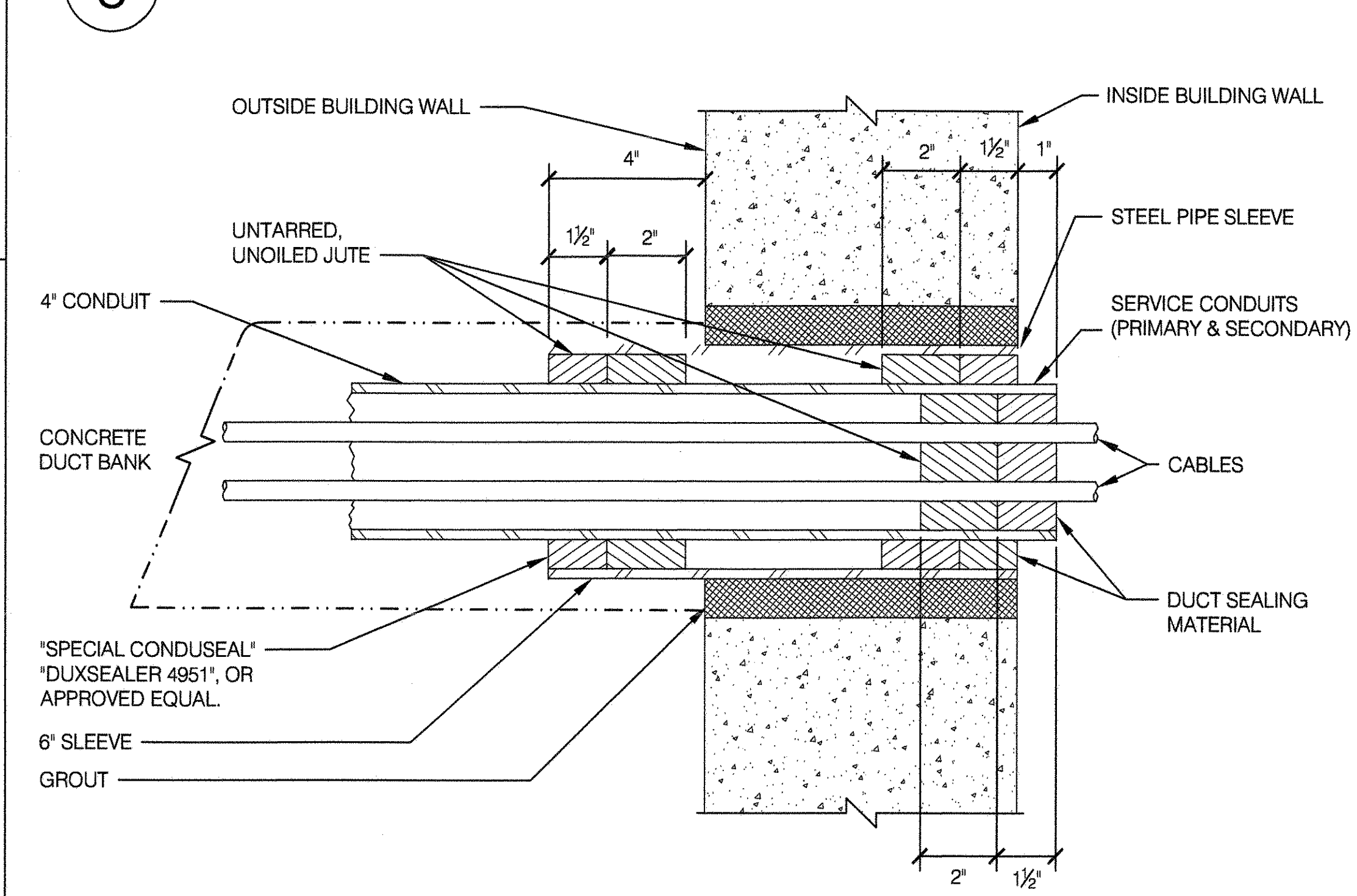
GROUNDING OF METALLIC BOXES:

1. PROVIDE DOUBLE LOCKNUTS AND GROUNDING BUSHING, OZ. TYPE "GB" OR EQUAL, AT ALL CONDUIT ENTRANCES. CONNECT ALL GROUNDING BUSHINGS TO BURNDY TYPE K2C GROUND STUD, OR APPROVED EQUAL, IN WALL OF BOX WITH A #6 BARE, TINNED, STRANDED, COPPER WIRE. WHEN CONDUITS ARE INSTALLED WITH A SLIPFIT CONNECTION TO BOX, DUE TO EXPANSION AND CONTRACTION, PROVIDE A GROUNDING BUSHING, OZ. TYPE "GB" OR EQUAL AT ALL CONDUIT ENTRANCES. LOCKNUTS NOT REQUIRED. CONNECT GROUNDING BUSHINGS TO BURNDY TYPE K2C GROUND STUD OR EQUAL IN WALL OF BOX WITH A #6 BARE, TINNED, STRANDED COPPER WIRE. WHEN CONDUITS PASS THROUGH AN EXPANSION JOINT, A BONDING JUMPER SHALL BE INSTALLED.
2. FOR ROADWAY TYPE BOXES, SEE DPR STANDARD DRAWING SHEET NO. 61 "ROADWAY TYPE BOXES".
3. CONTRACTOR SHALL ADD AN RFID NUMBER TO EACH BOX, USING 3M BALL MARKERS, "NO. 3M ID BALL MARKER 1428-XRID", OR APPROVED EQUAL. CONTRACTOR SHALL ADD SERIAL NUMBER FOR EACH BOX OF USED MARKER IN THE AS-BUILT PLANS.

METHOD OF SEALING SERVICE CABLES AND CONDUITS FOR BUILDING WALLS AND MANHOLES (SEE DETAIL #6):

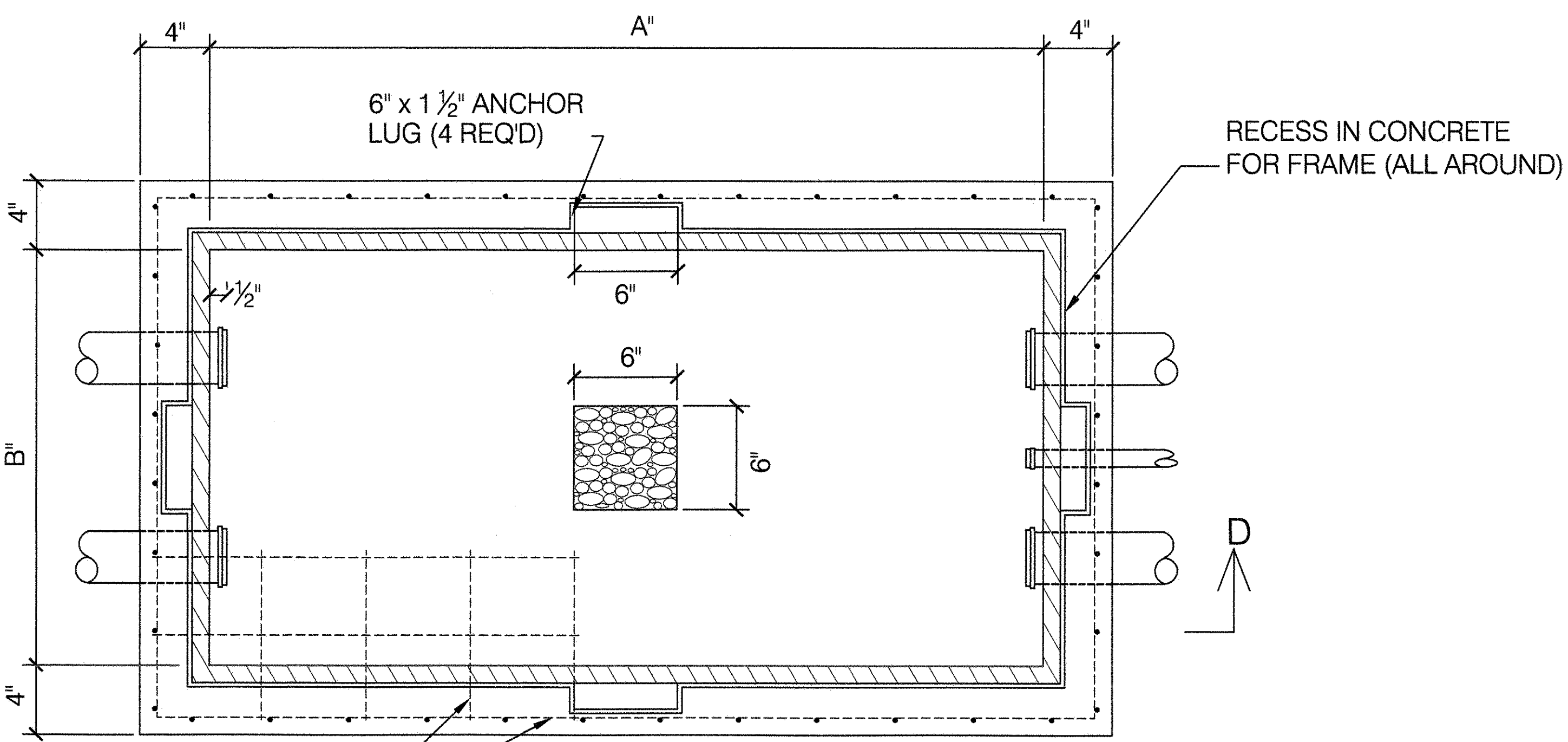
1. TO SEAL CABLES INSIDE CONDUIT, FIRST APPLY UNTARRED, UNOILED JUTE PACKING AROUND THE OUTSIDE OF & IN THE CROTCH BETWEEN THE CABLES, IN SUCH A MANNER AS TO COMPLETELY FILL THE DUCT. USE SHORT PIECES OF THIS JUTE (2" to 6" LONG) & PACK THEM TIGHTLY. INSERT APPROVED DUCT SEALING MATERIAL TAKING CARE TO SECURE A PERFECT BOND AROUND EDGE OF CONDUIT & CABLES. CABLES SHALL BE KEPT APART AND AWAY FROM EDGE OF CONDUIT BY SEALING MATERIAL.
2. TO SEAL SERVICE CONDUIT IN SLEEVE, APPLY UNTARRED, UNOILED JUTE PACKING BETWEEN CONDUIT AND SLEEVE IN SUCH A MANNER AS TO COMPLETELY FILL THE SPACE. PACK TIGHTLY. INSERT APPROVED DUCT SEALING MATERIAL, TAKING CARE TO SECURE A PERFECT BOND BETWEEN CONDUIT & SLEEVE.
3. TO GROUT SLEEVE IN WALL, THE MORTAR FOR SEALING THE SLEEVE IN THE WALL SHALL BE A 1:3 MIXTURE CONSISTING OF ONE PART PORTLAND CEMENT AND THREE PARTS CLEAN SAND WITH A MINIMUM OF WATER. THE SLEEVE SHALL BE FREE FROM MILL SCALE, RUST, OR GREASE. CARE SHOULD BE TAKEN TO HAVE THE CONCRETE IN PERFECT CONTACT WITH THE ENTIRE SURFACE OF THE SLEEVE PASSING THROUGH THE WALL.
4. TO SEAL EMPTY DUCTS IN MANHOLES, FIRST PREPARE A JUTE PLUG AT LEAST 2 INCHES DEEP AND THEN INSERT IT TIGHTLY IN DUCT OR SERVICE PIPE, THEN APPLY APPROVED DUCT SEALING MATERIAL AGAINST THE JUTE PLUG AS ABOVE.

6 DETAIL 6



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DRAWING TITLE GROUNDING AND SEALING METHODS	
DRAWN BY STAFF	CHECKED BY N. MANSOUR
APPROVED BY TERENCE MCCORMICK, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 60
DATE 09-01-2020	SCALE AS SHOWN

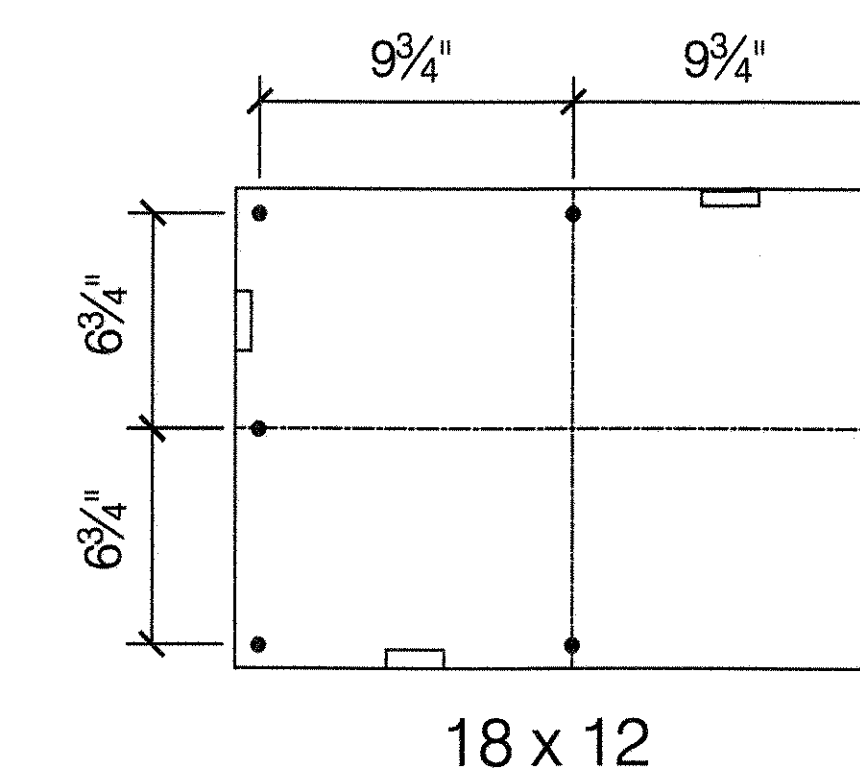
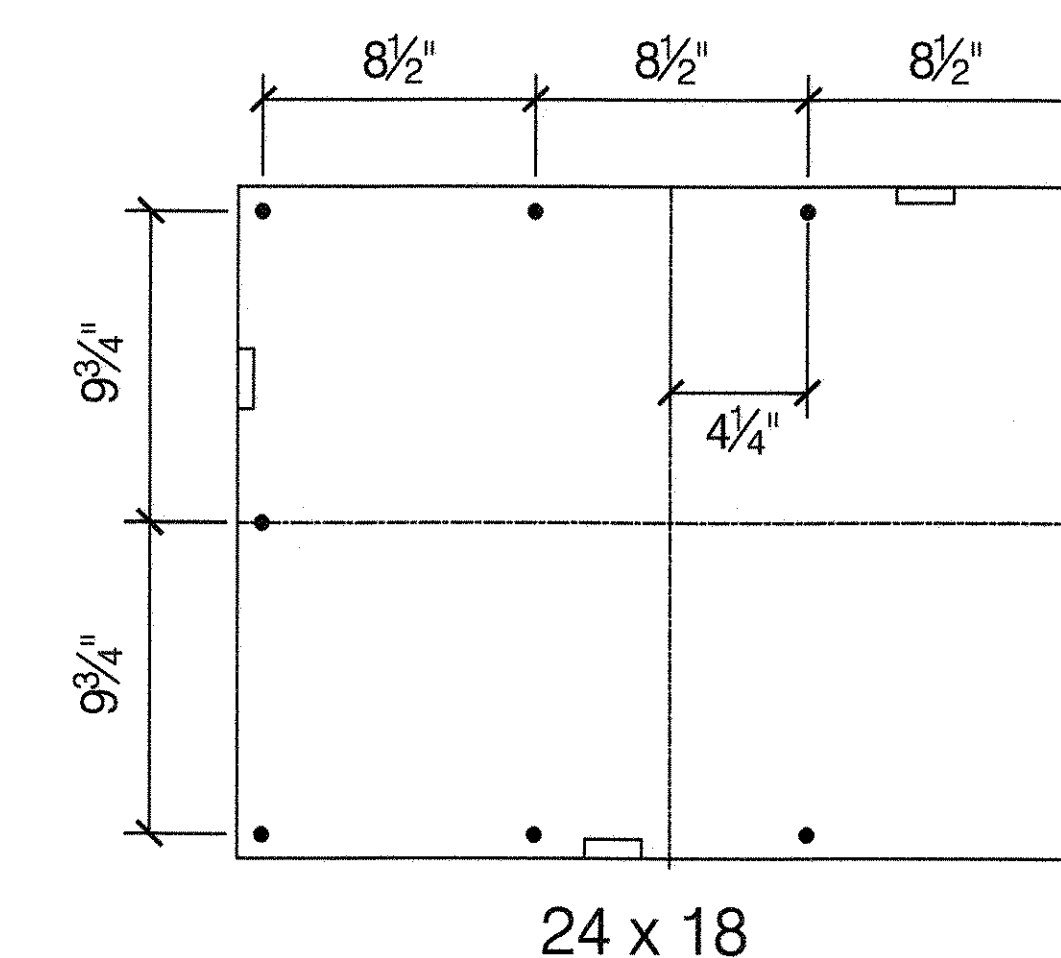
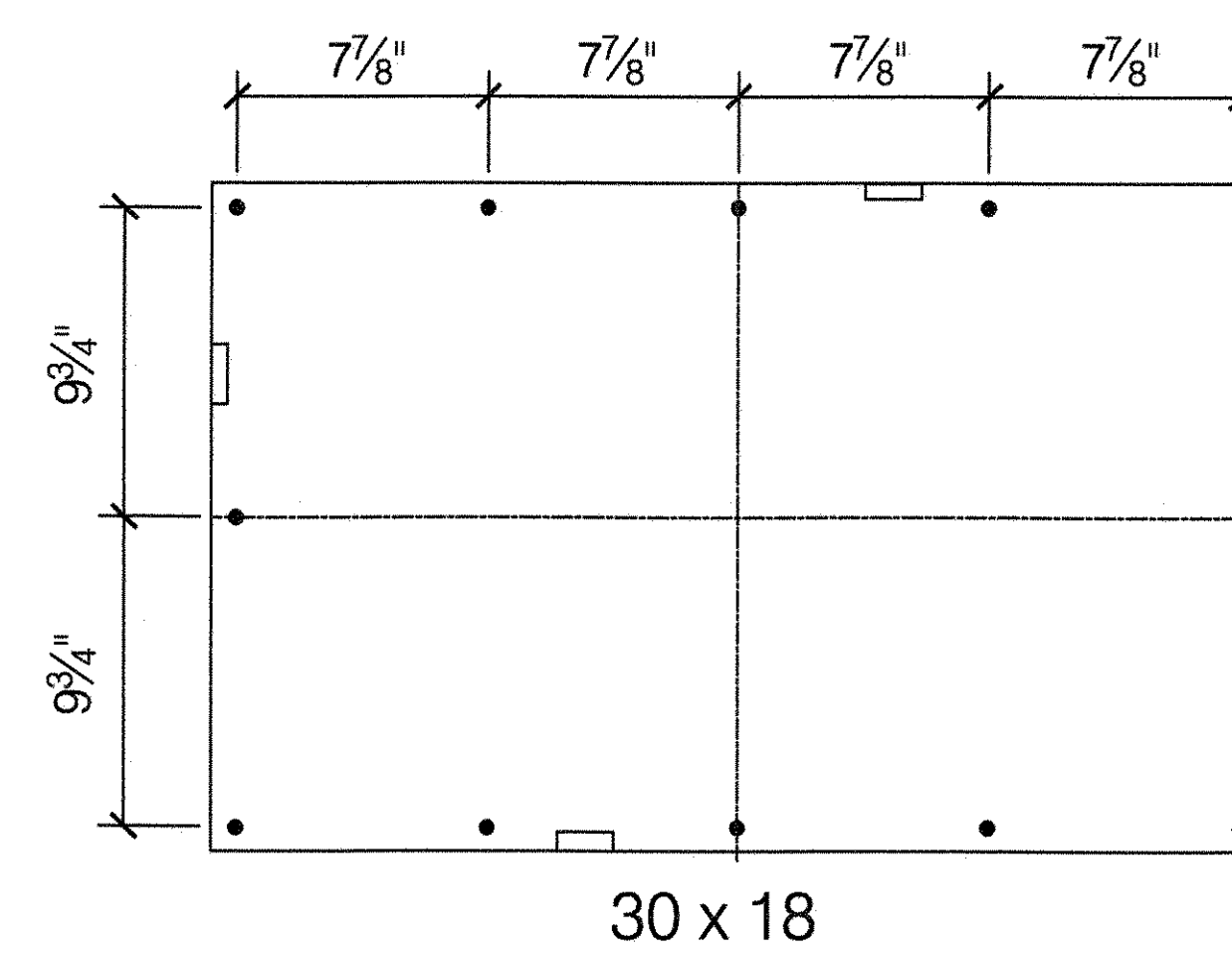
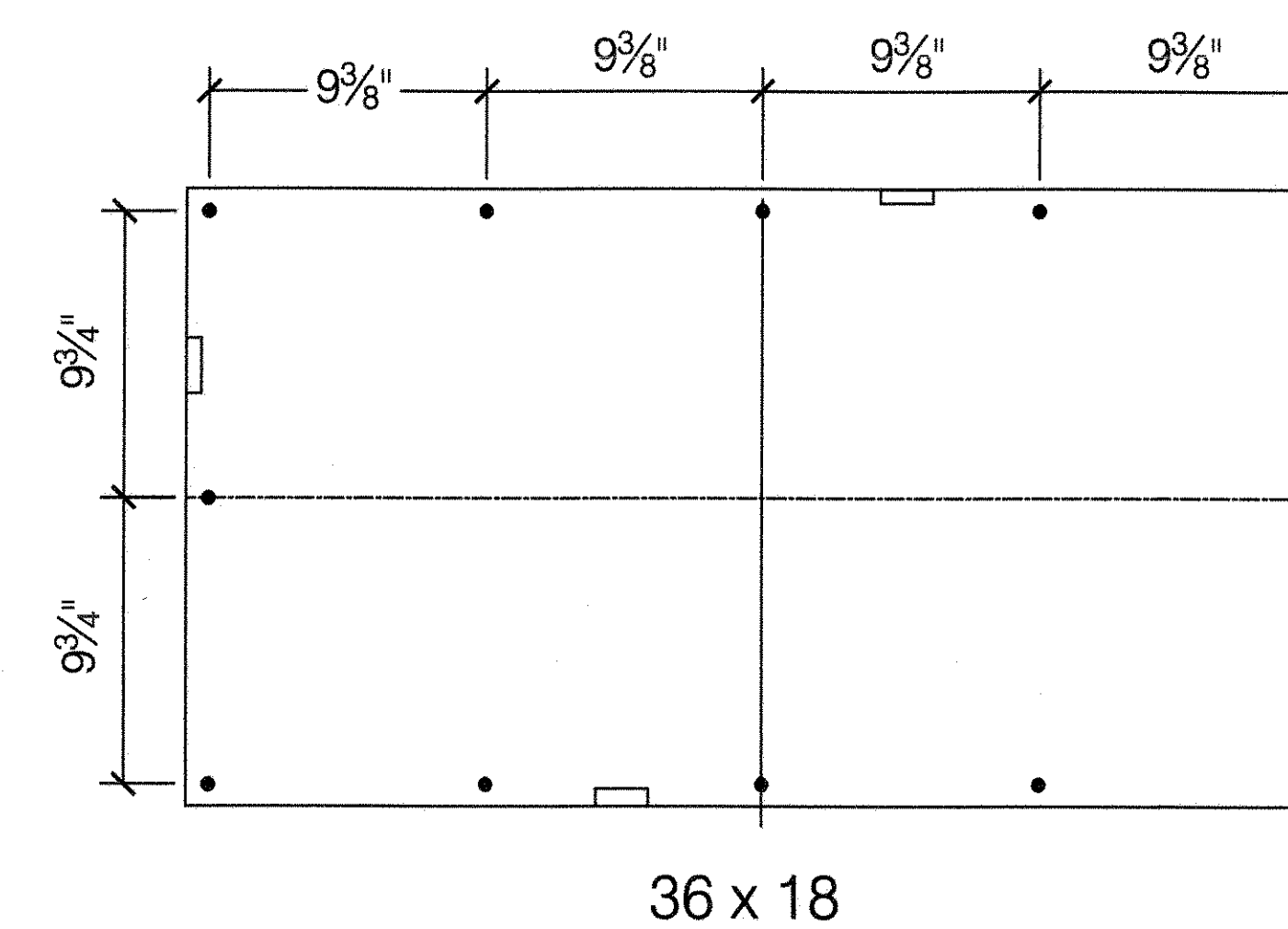
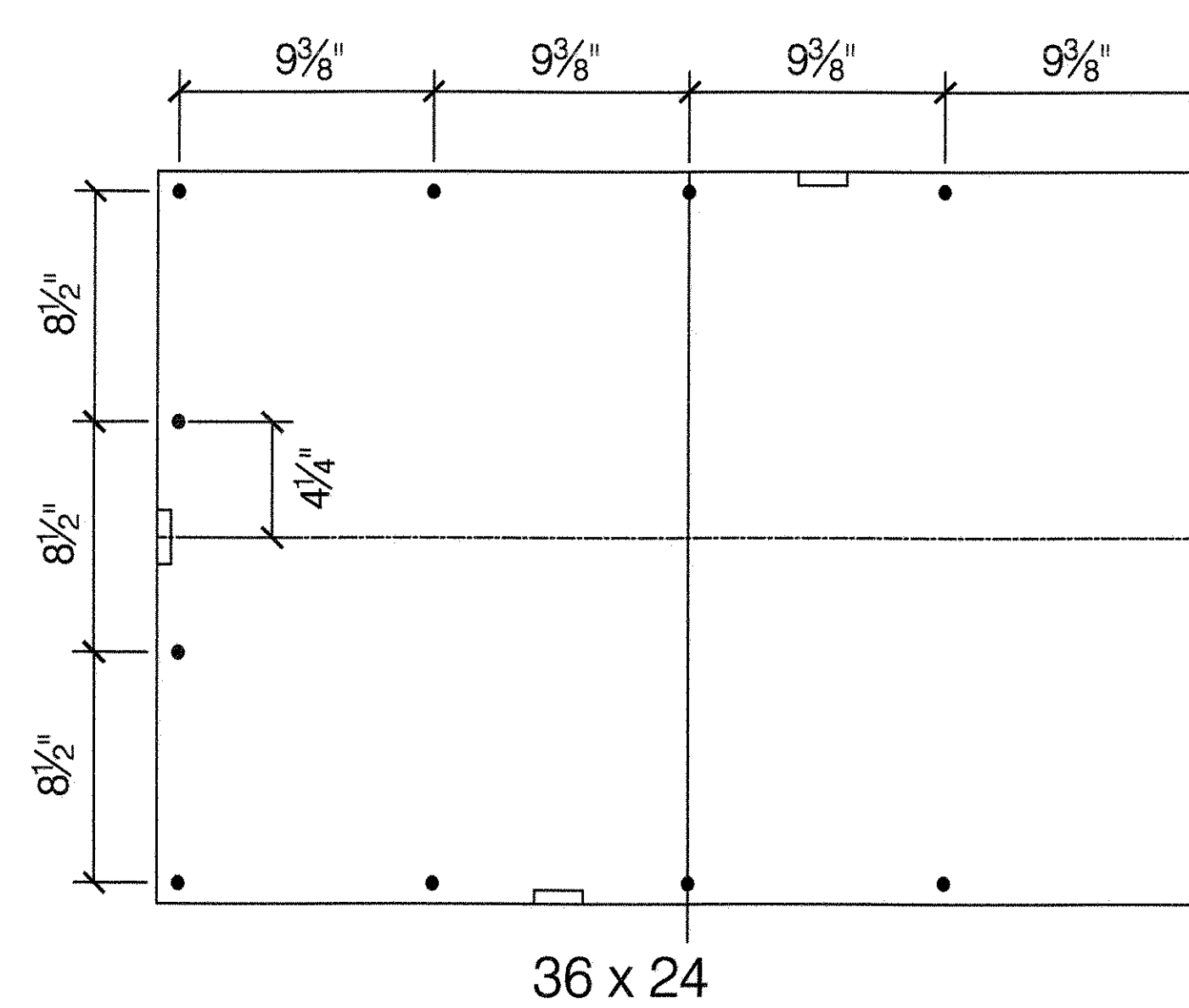
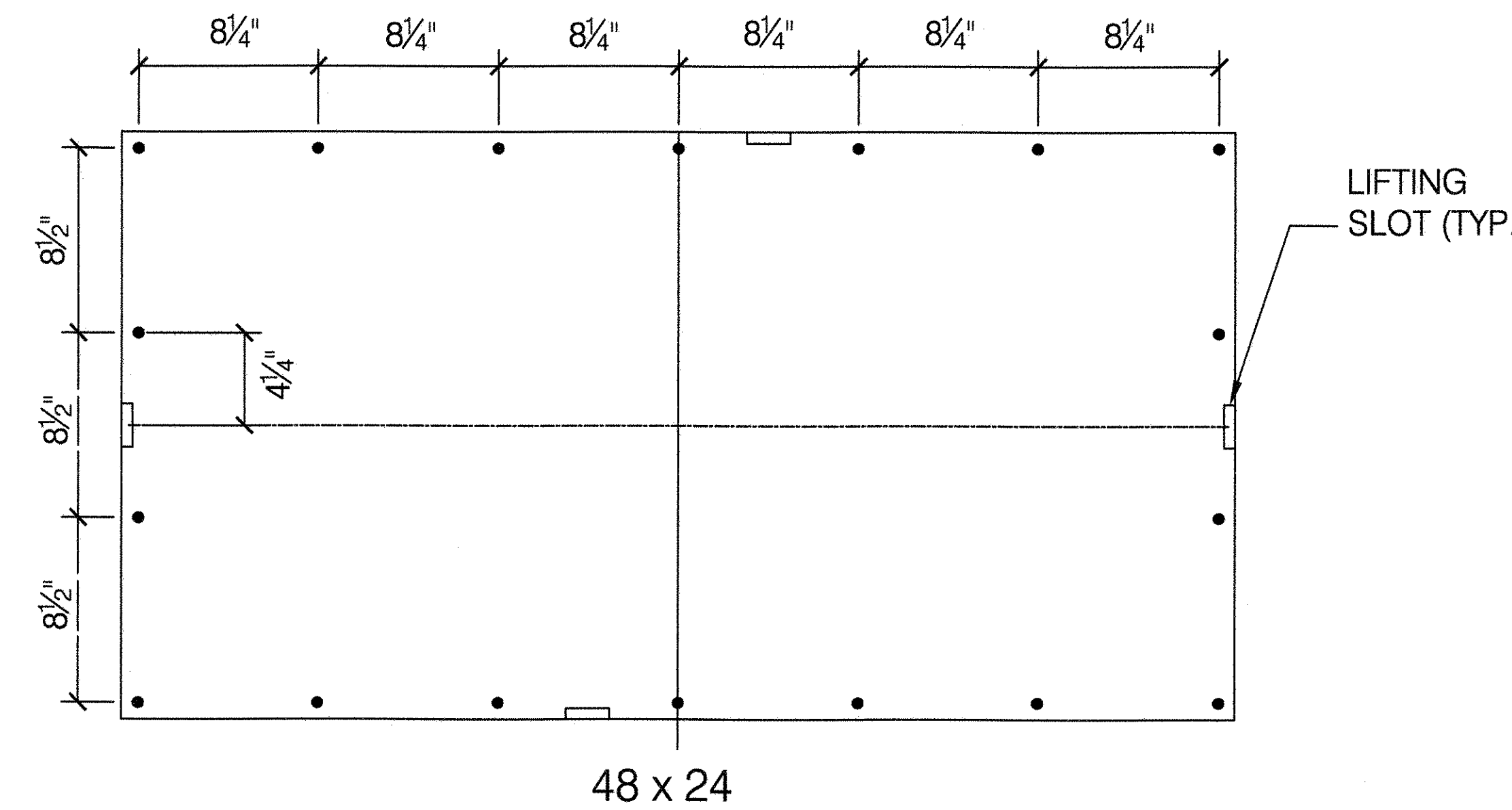


SECTION A-A

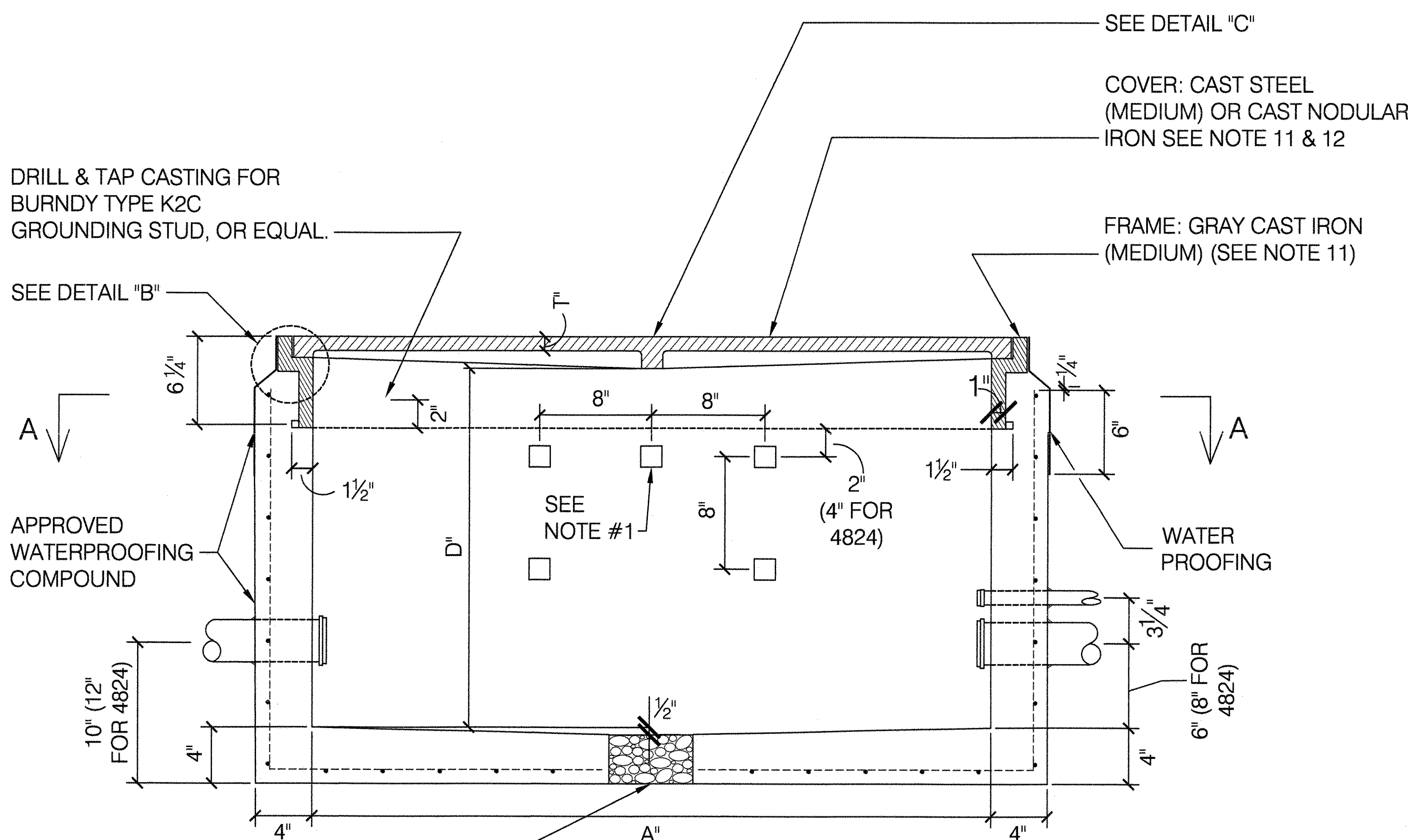
BOX NO.	TYPE	LENGTH A	WIDTH B	DEPTH D	CABLE SUPPORT DEVICES	"T"
1-R	1812	18"	12"	2'-2"	MANUFACTURED BY UNDERGROUND DEVICES OR APPROVED EQUAL	3/4"
2-R	2418	24"	18"	2'-2"		1"
3-R	3018	30"	18"	2'-2"		1"
4-R	3618	36"	18"	2'-2"		1"
5-R	3624	36"	24"	2'-2"		1 1/8"
6-R	4824	48"	24"	2'-6"		1 1/4"

NOTES:

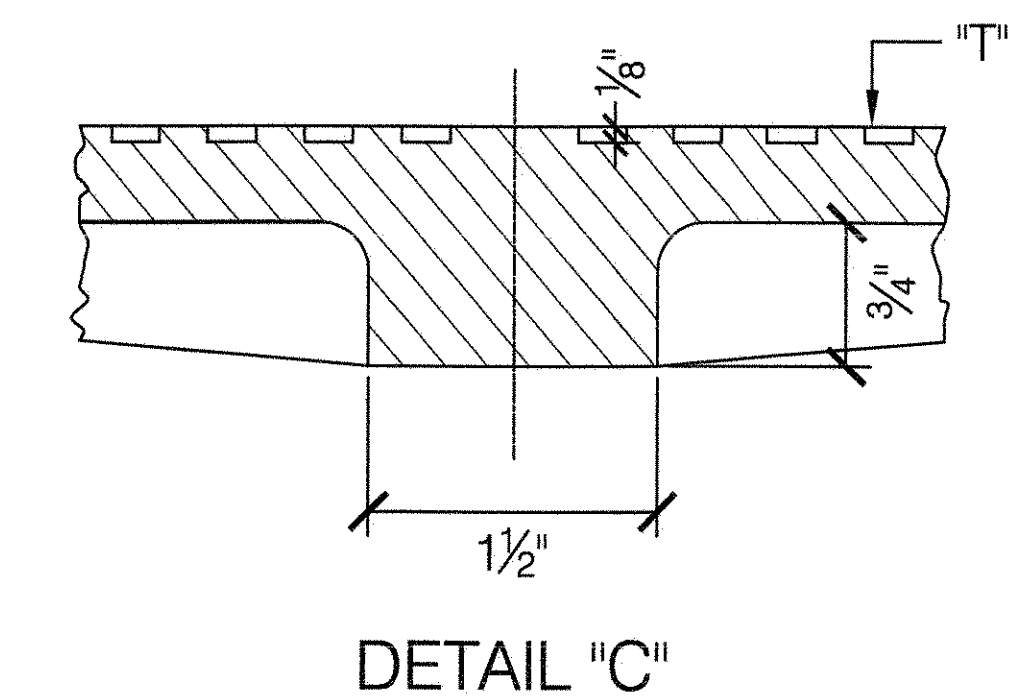
- ONLY ONE STANCHION IN CENTER OF EACH SIDE OF BOX FOR 24" x 18" BOX.
- CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
- CONCRETE SHALL CONSIST OF 1 PART OF HIGH GRADE PORTLAND CEMENT, 2 PARTS FINE AGGREGATE OR CLEAN NATURAL SAND OR SCREENINGS FROM TRAP, GRANITE OR GRAVEL, 4 PARTS COARSE AGGREGATE OF HARD CRUSHED ROCK OR GRAVEL TO PASS 1" CIRCULAR OPENING IN SCREEN, AND CLEAN FRESH WATER.
- FRAME AND COVER SHALL BE HOT DIPPED GALVANIZED.
- FOR SIZE AND NUMBER OF CONDUITS ENTERING BOX, SEE CONTRACT PLANS.
- ALL NUTS, BOLTS, SCREWS, ETC. SHALL BE STAINLESS STEEL. TYPE MCGARD INC. PART NO 117089, OR INNER TITLE CORP, PART NO. TRS-01.
- FRAME AND COVER SHALL BE NEATLY FINISHED. THE THICKNESSES, AS GIVEN, SHALL BE UNIFORM THROUGHOUT FOR BOTH FRAME AND COVER. ACCEPTANCE OF COMPLETE ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THIS DEPARTMENT.
- A 1 CU. FT. BROKEN STONE DRY WELL SHALL BE PROVIDED UNDER BOX DRAIN BEFORE IT IS INSTALLED.
- A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
- MANUFACTURER'S UNUSED KNOCKOUTS SHALL BE PLUGGED.
- CAST STEEL COVER SPEC. SHALL BE ASTM A-27-62, GRADE 70-40. CAST IRON FRAME SPEC. SHALL BE ASTM A-48-60T, CLASS 30.
- AS AN ALTERNATIVE, COVER MAY BE CAST NODULAR IRON PER. ASTM A536-65T, GRADE 65-45-12.
- DRY WELL SHALL BE INSTALLED BEFORE BOX IS INSTALLED.
- CONDUITS SHALL PROJECT INTO BOX BETWEEN 1" & 2".
- FOR GROUNDING AND SEALING METHODS, SEE DPR STANDARD DETAIL, SHEET #60 "GROUNDING AND SEALING METHODS".
- FRAME AND COVER SHALL BE EQUAL TO THOSE MANUFACTURED BY BERRI ROCCI, INC., SPRING CITY ELECT. MFG. CO., OR CAMPBELL FOUNDRY CO.
- CONCRETE SHALL HAVE A CERTIFIED DESIGN MIX WITH MINIMUM STRENGTH OF 4000 PSI.



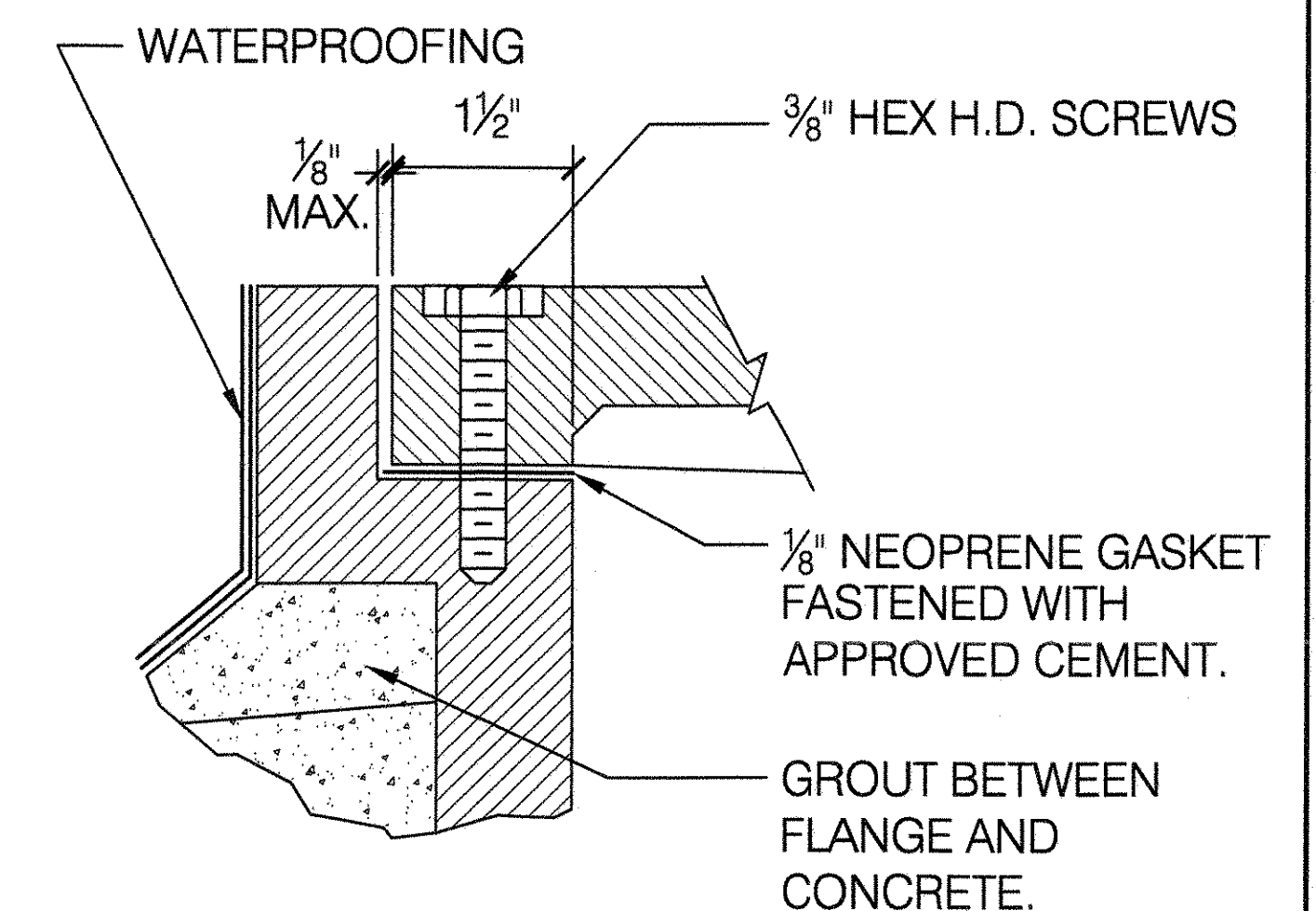
PLAN LAYOUTS OF COVERS SHOWING BOLT SPACING AND LIFTING SLOT LOCATION



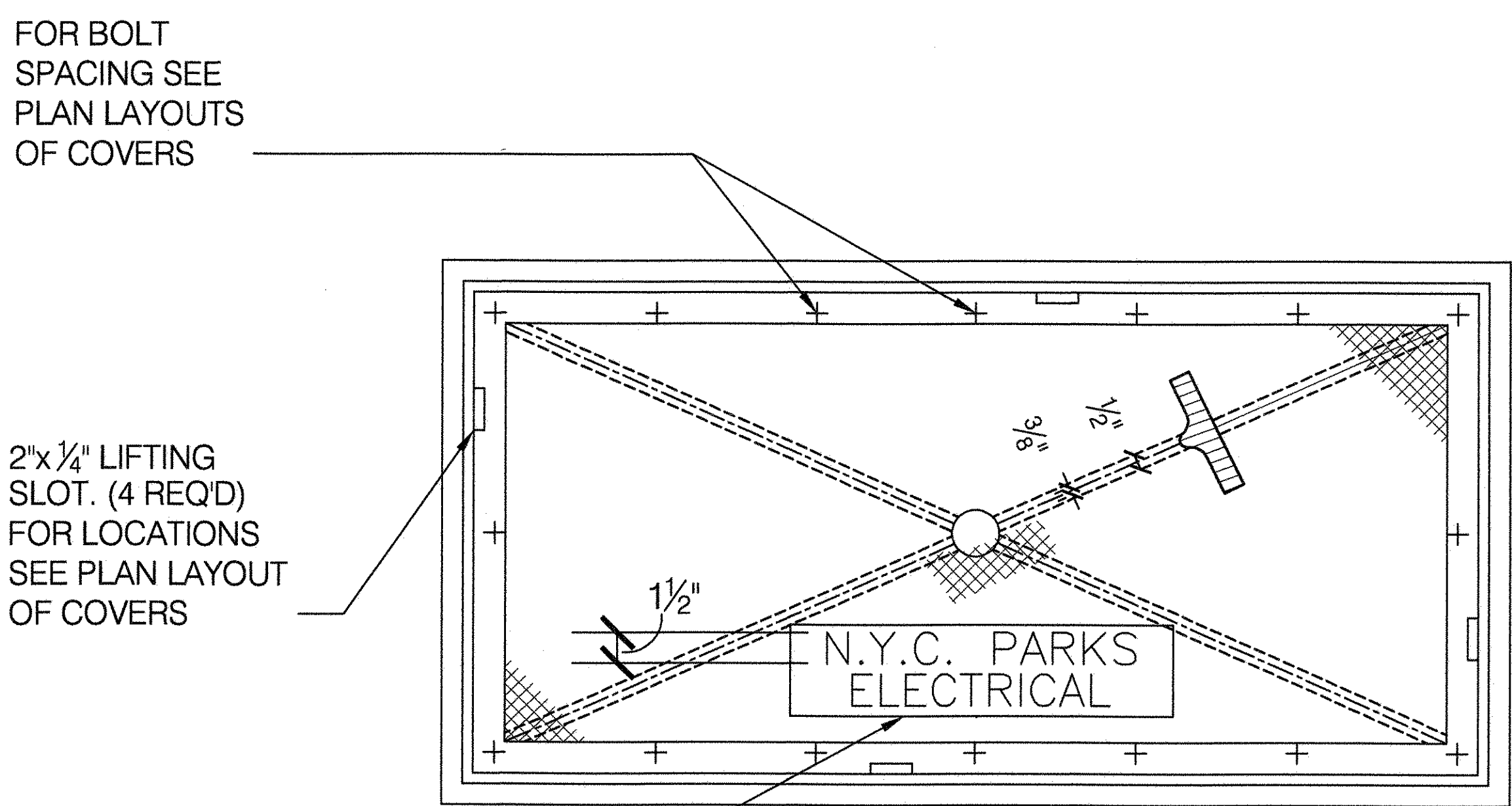
SECTION D-D



DETAIL "C"



DETAIL "B"



RAISED LETTERS 1/8" HIGH CAST INTEGRAL WITH COVER IN RECTANGULAR RECESS 1/8" DEEP.

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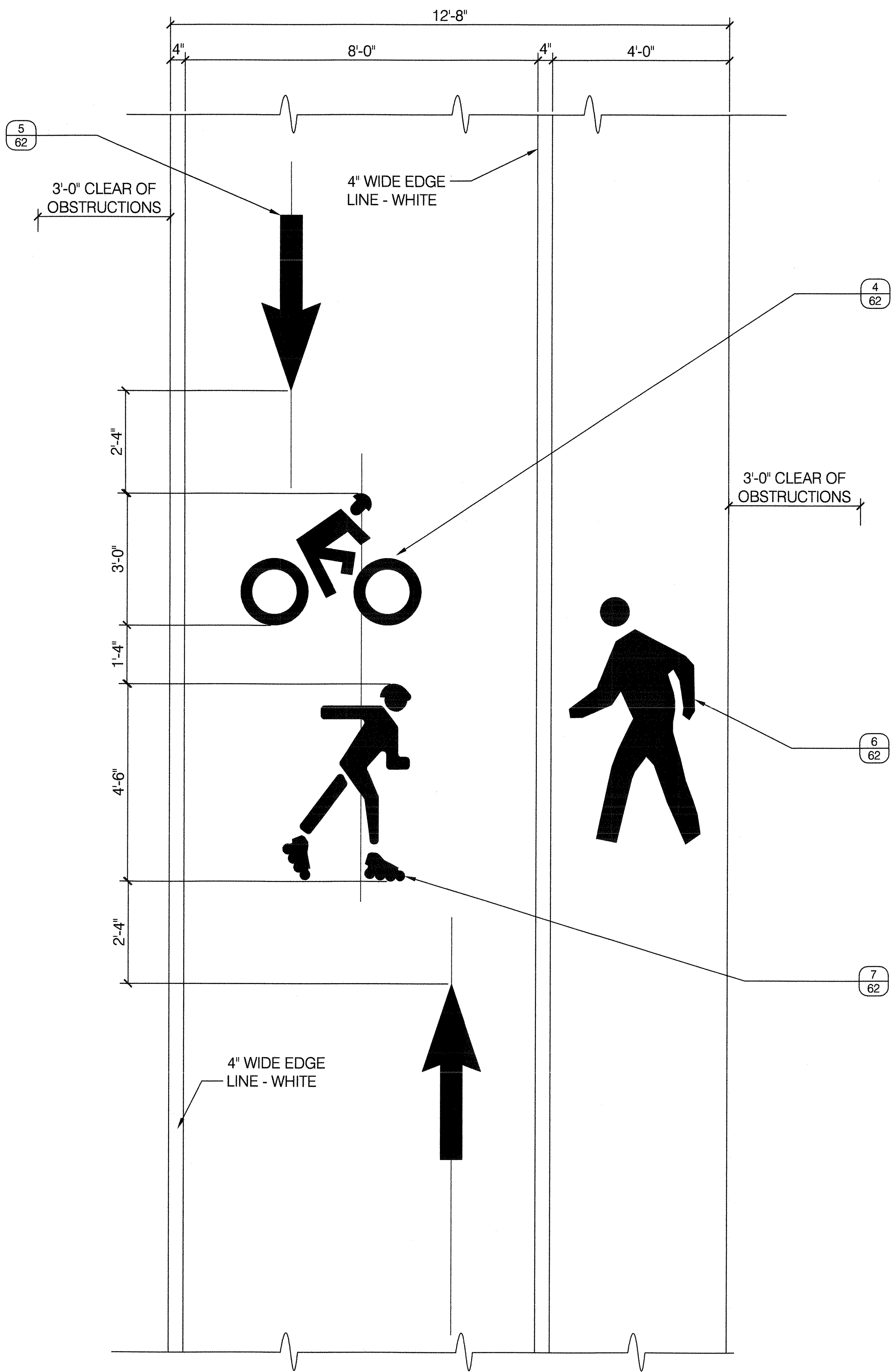
NYC Parks

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 DRAWING TITLE: ROADWAY TYPE BOXES

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APPROVED BY: TERENCE MCCORMICK, PE	STANDARD D.P.R. DETAIL: TYLA / 146-R10
APPROVED BY DIRECTOR: RUBY WEI, PE	SHEET NO. 61
DATE: 09-01-2020	SCALE: AS SHOWN

1 TYPICAL STRIPING DETAIL

SCALE 3/4" = 1'-0"

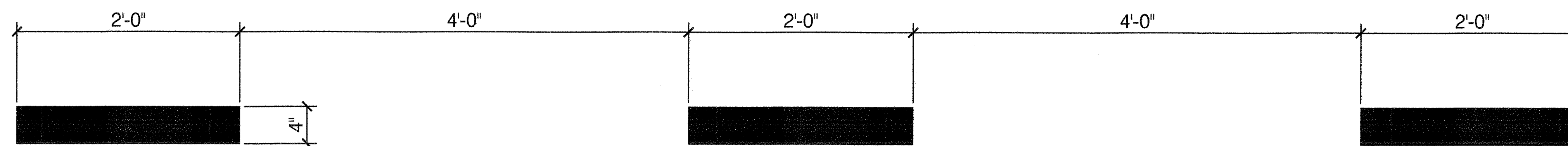


NOTES:

1. ALL SYMBOLS AND ARROWS SHALL BE THERMOPLASTIC HEAT FUSED PREFORMED REFLECTIVE MARKINGS (HFPRM).
2. ALL LINES SHALL BE THERMOPLASTIC EXTRUDED MATERIAL.

2 DASHED LINE

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

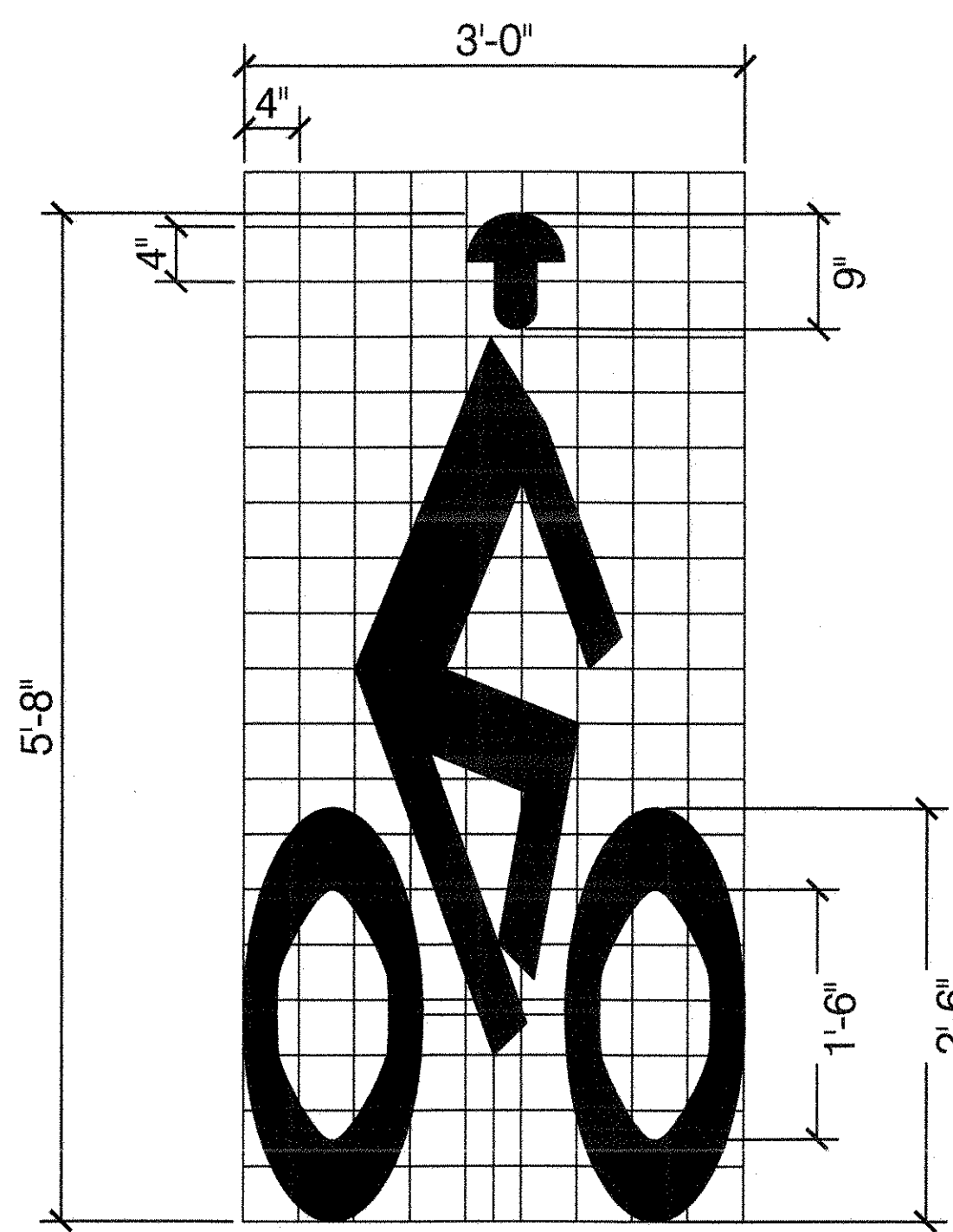


WHITE DASHED LINE TO BE USED ON TWO-WAY PARK PATHS WHERE THERE IS JUST A CENTER LINE, WITHOUT SEPARATION OF USES.

3 DESIGNATED BICYCLE LANE SYMBOL - CLASS II

NYC DOT - TSS-1

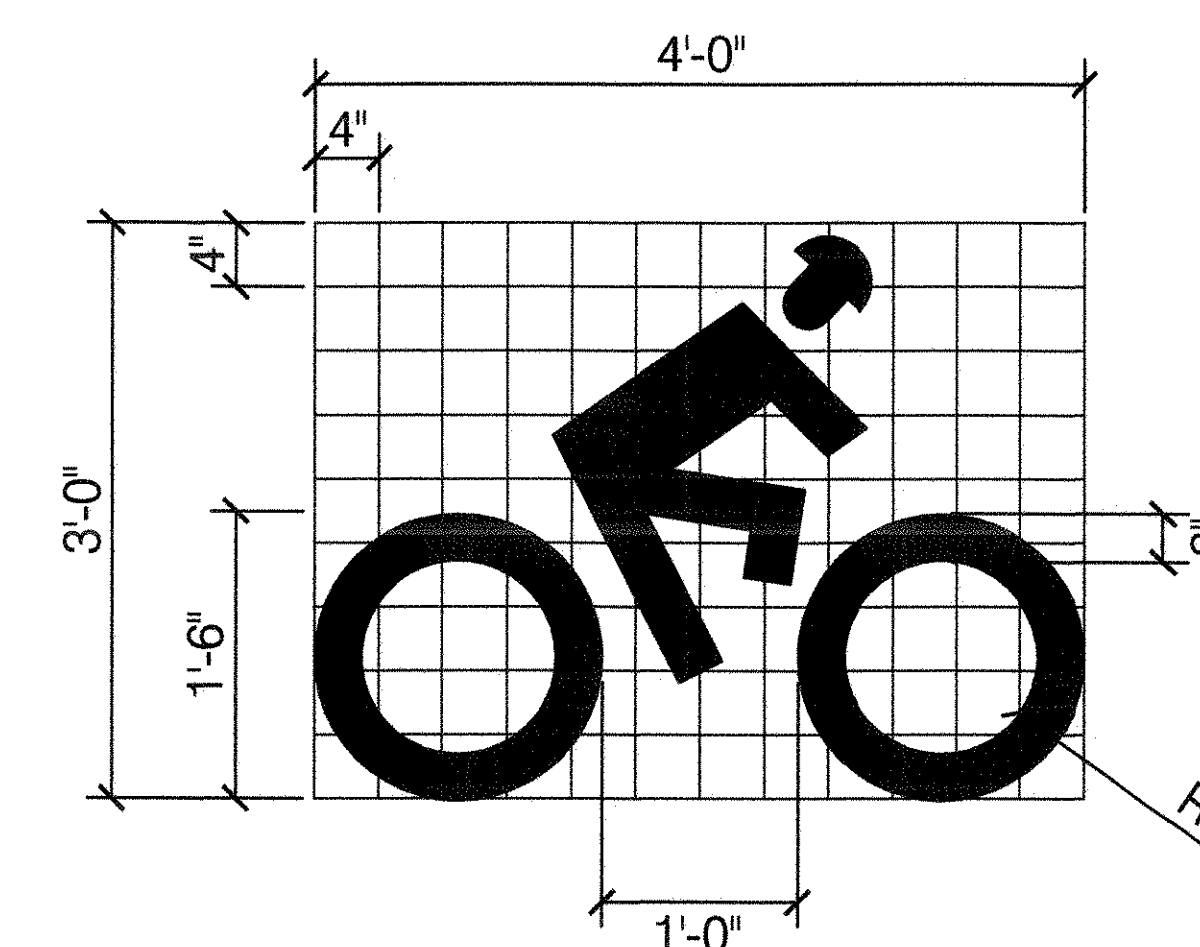
SCALE 1" = 1'-0"



4 BICYCLE TRAIL LANE SYMBOL - CLASS 1

NYC DOT - TSS-1

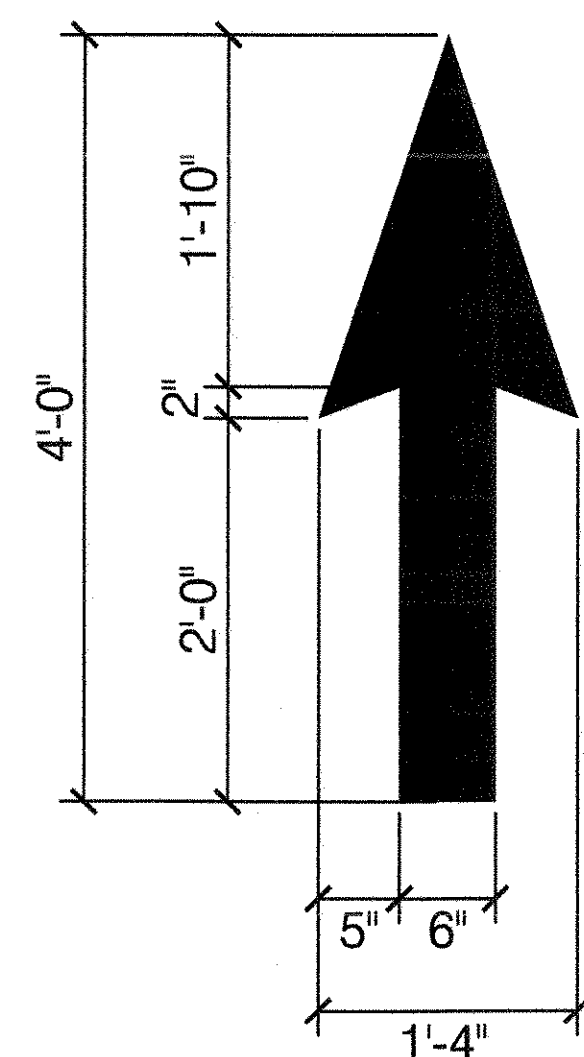
SCALE 1" = 1'-0"



5 BIKE LANE PAVEMENT ARROW (TYPICAL)

NYC DOT - TSS-1

SCALE 1" = 1'-0"



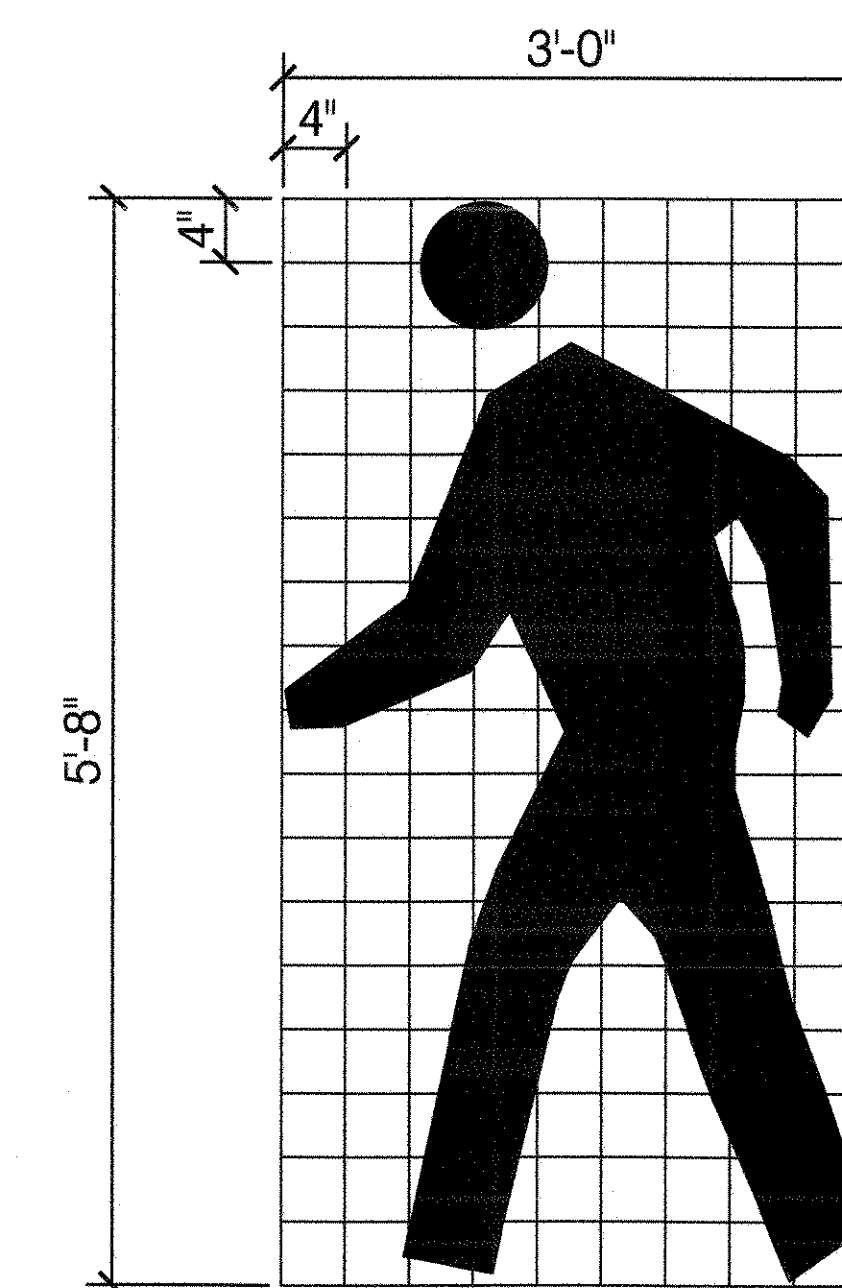
EQUIVALENT FOOTAGE 4" LINE = 8'-0"

EQUIVALENT FOOTAGES ARE FOR REFERENCE ONLY. ACTUAL QUANTITIES MUST BE OBTAINED IN THE FIELD.

6 PEDESTRIAN SYMBOL

NYC DOT - TSS-1

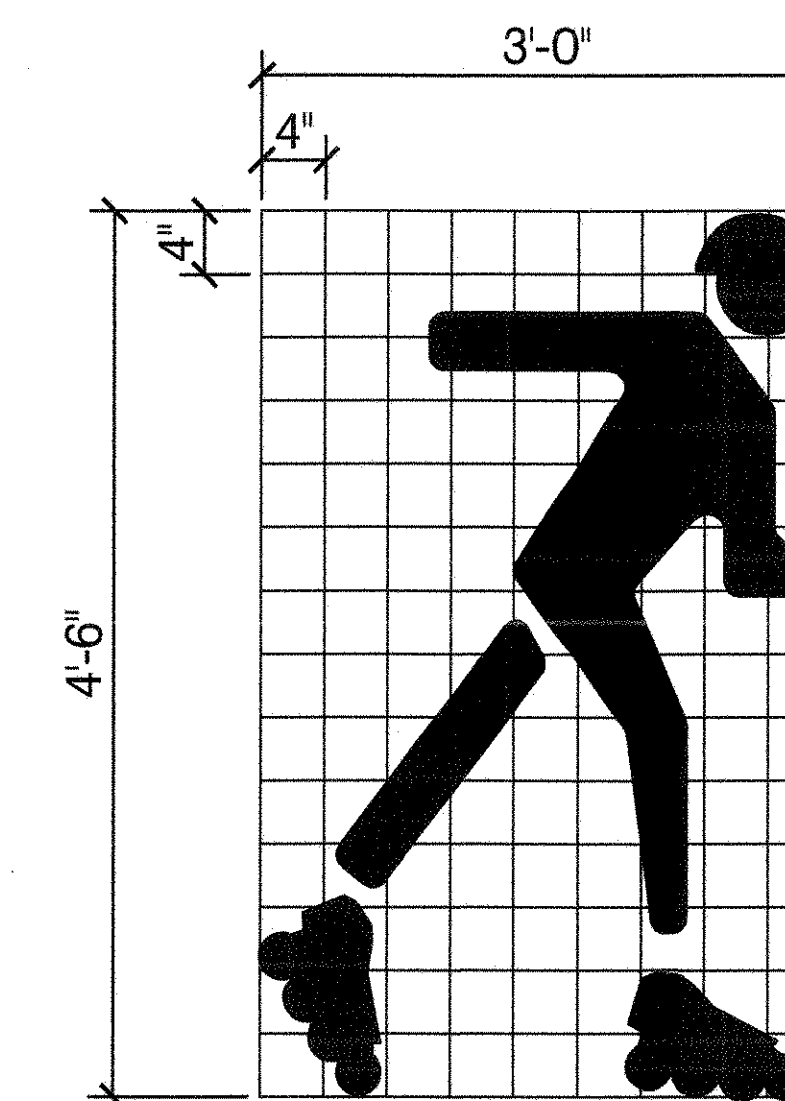
SCALE 1" = 1'-0"



7 SKATER SYMBOL (TYPICAL)

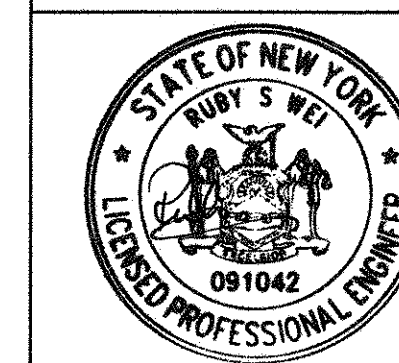
NYC DOT - TSS-1

SCALE 1" = 1'-0"



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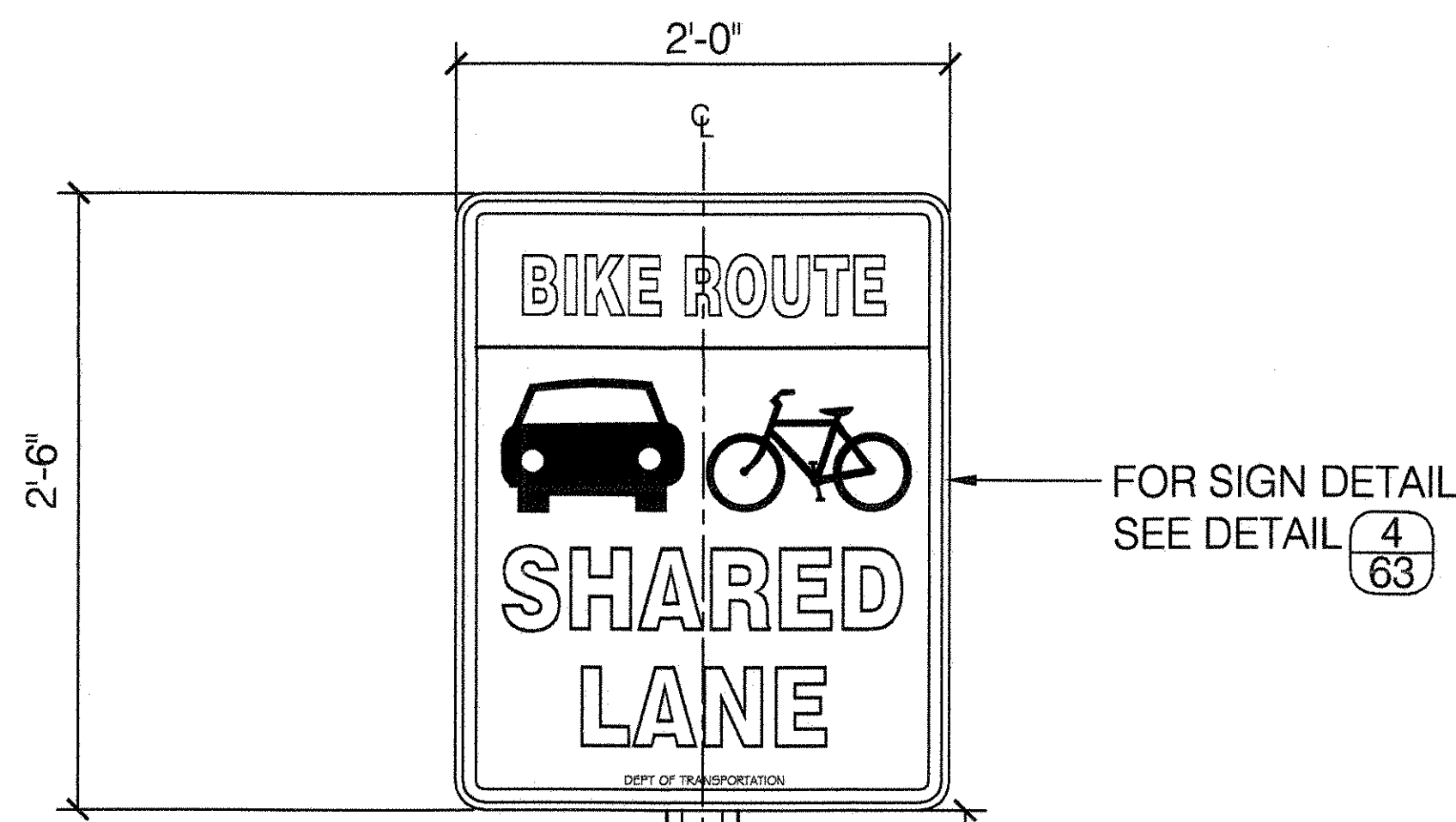
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DRAWING TITLE
GREENWAY PAVEMENT MARKINGS



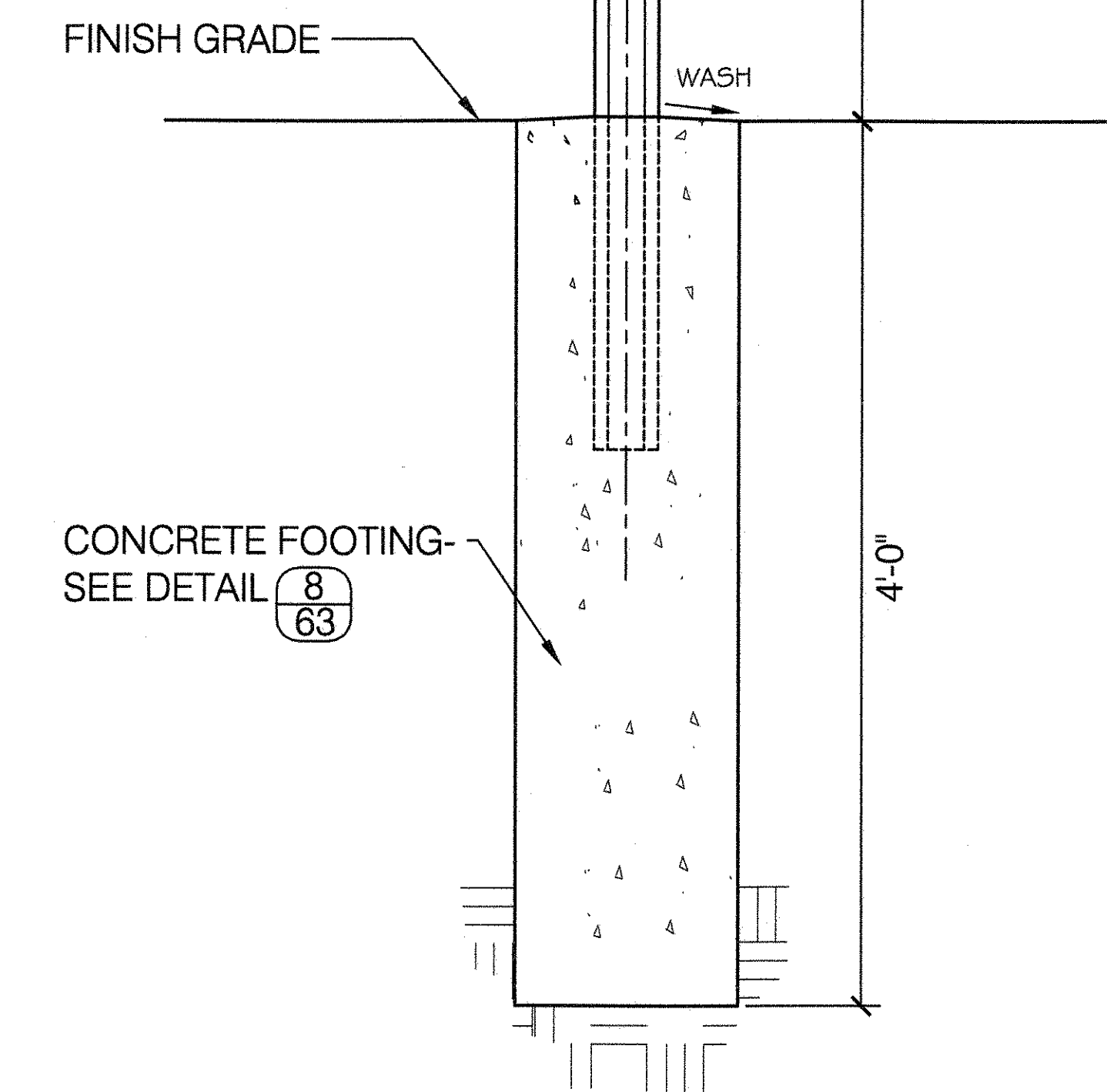
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DATE 09-01-2020	SCALE AS SHOWN

1 TYPICAL SIGN MOUNTING

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

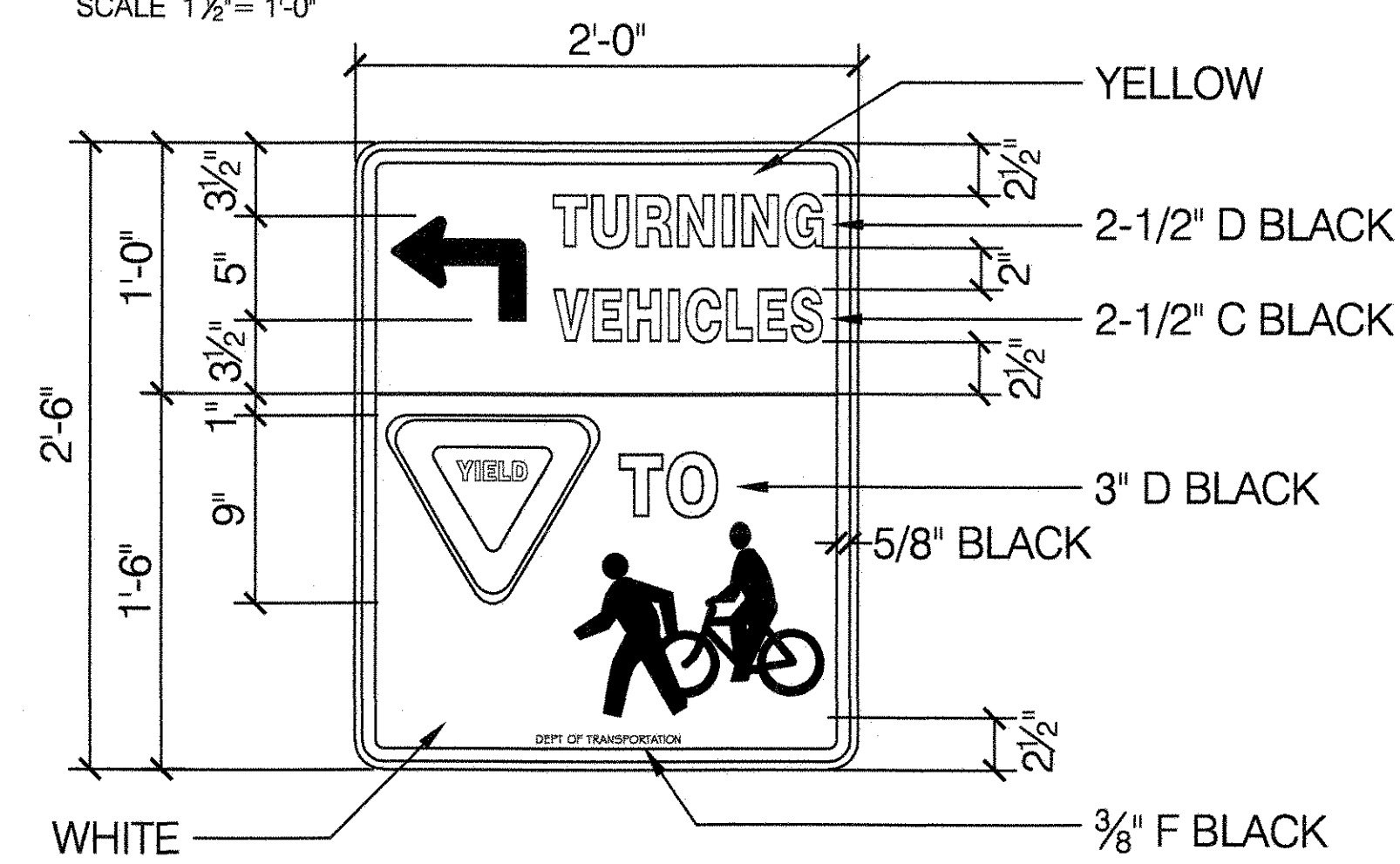


POST OR DRIVE RAIL SEE SPECS AND NOTE #4.



2 NYC DOT SIGN SW - 746

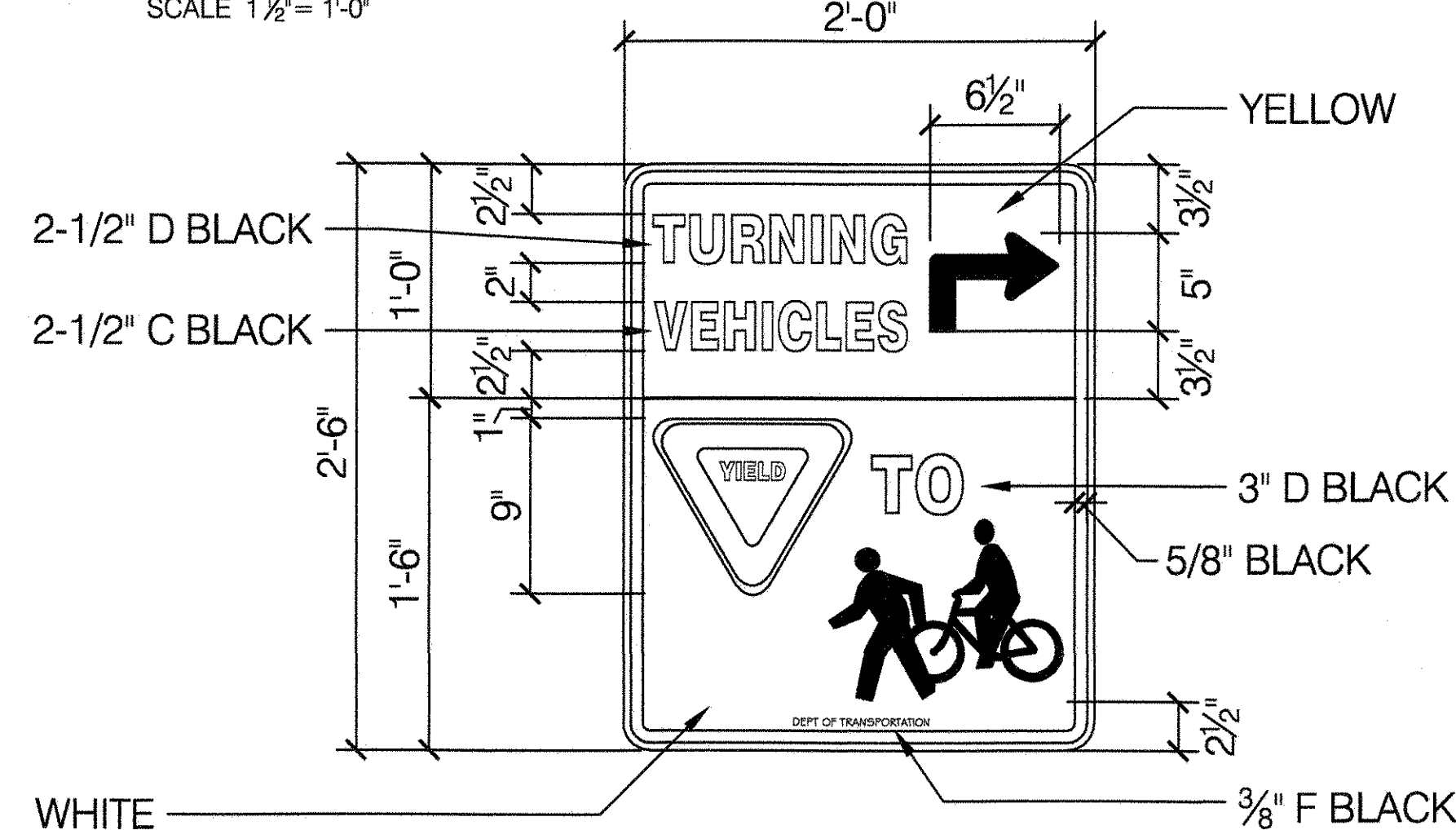
SCALE 1 1/2" = 1'-0"



- NOTES:
 1. LEFT HOOK ARROW (3-1/2" ARROW HEAD/STEM 1-1/2" THICK) STANDARD BLACK.
 2. YIELD SYMBOL (9" X 9" X 9") STANDARD RED.
 3. PEDESTRIAN & BIKER COMBO SYMBOL (12" X 9-1/2") STANDARD BLACK.

3 NYC DOT SIGN SW - 747

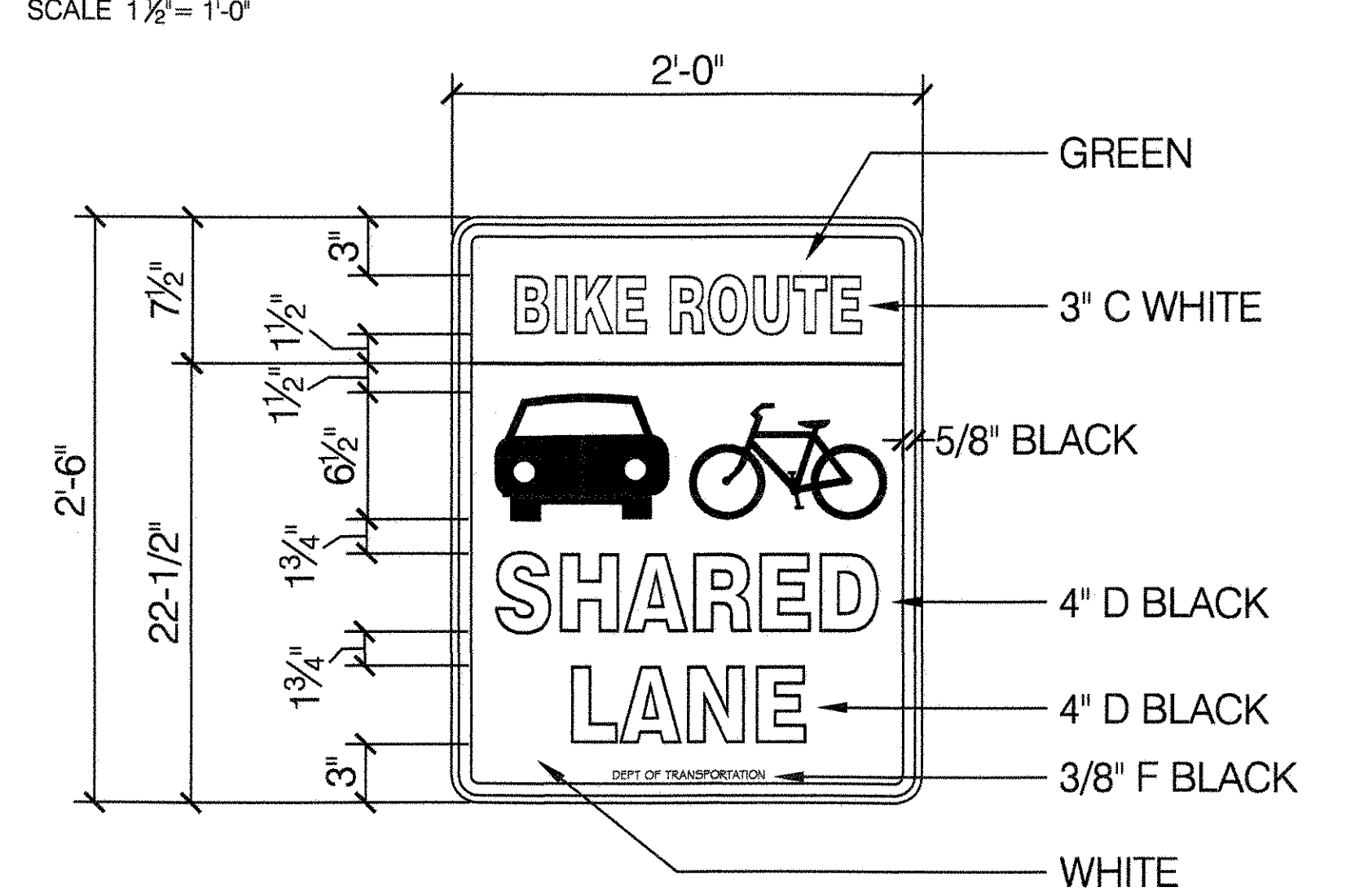
SCALE 1 1/2" = 1'-0"



- NOTES:
 1. RIGHT HOOK ARROW (3-1/2" ARROW HEAD/STEM 1-1/2" THICK) STANDARD BLACK.
 2. YIELD SYMBOL (9" X 9" X 9") STANDARD RED.
 3. PEDESTRIAN & BIKER COMBO SYMBOL (12" X 9-1/2") STANDARD BLACK.

4 NYC DOT SIGN SR - 1756

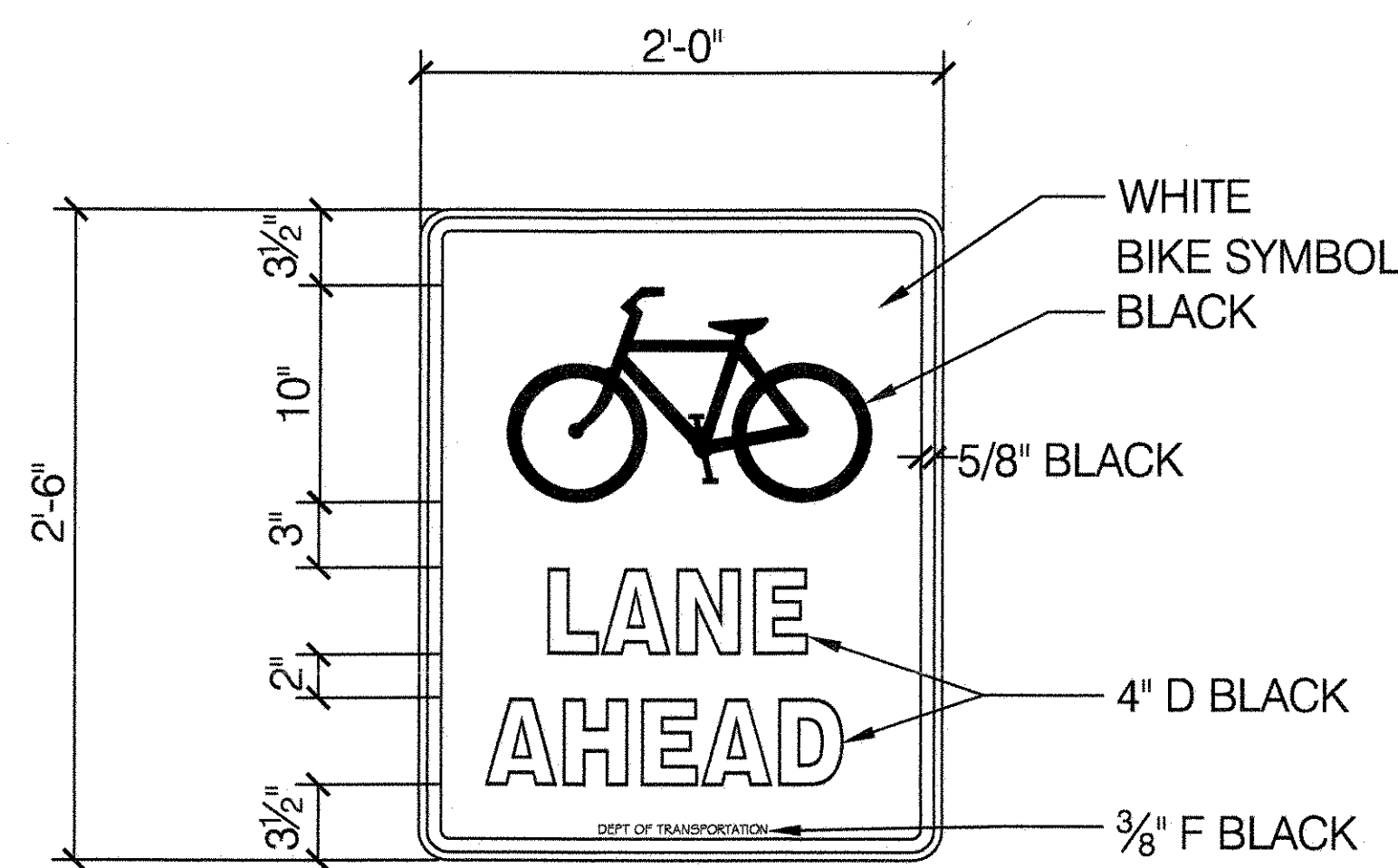
SCALE 1 1/2" = 1'-0"



- NOTES:
 1. CAR SYMBOL (9" X 6-1/2") STANDARD BLACK.
 2. BIKE SYMBOL (9" X 5-3/8") STANDARD BLACK.

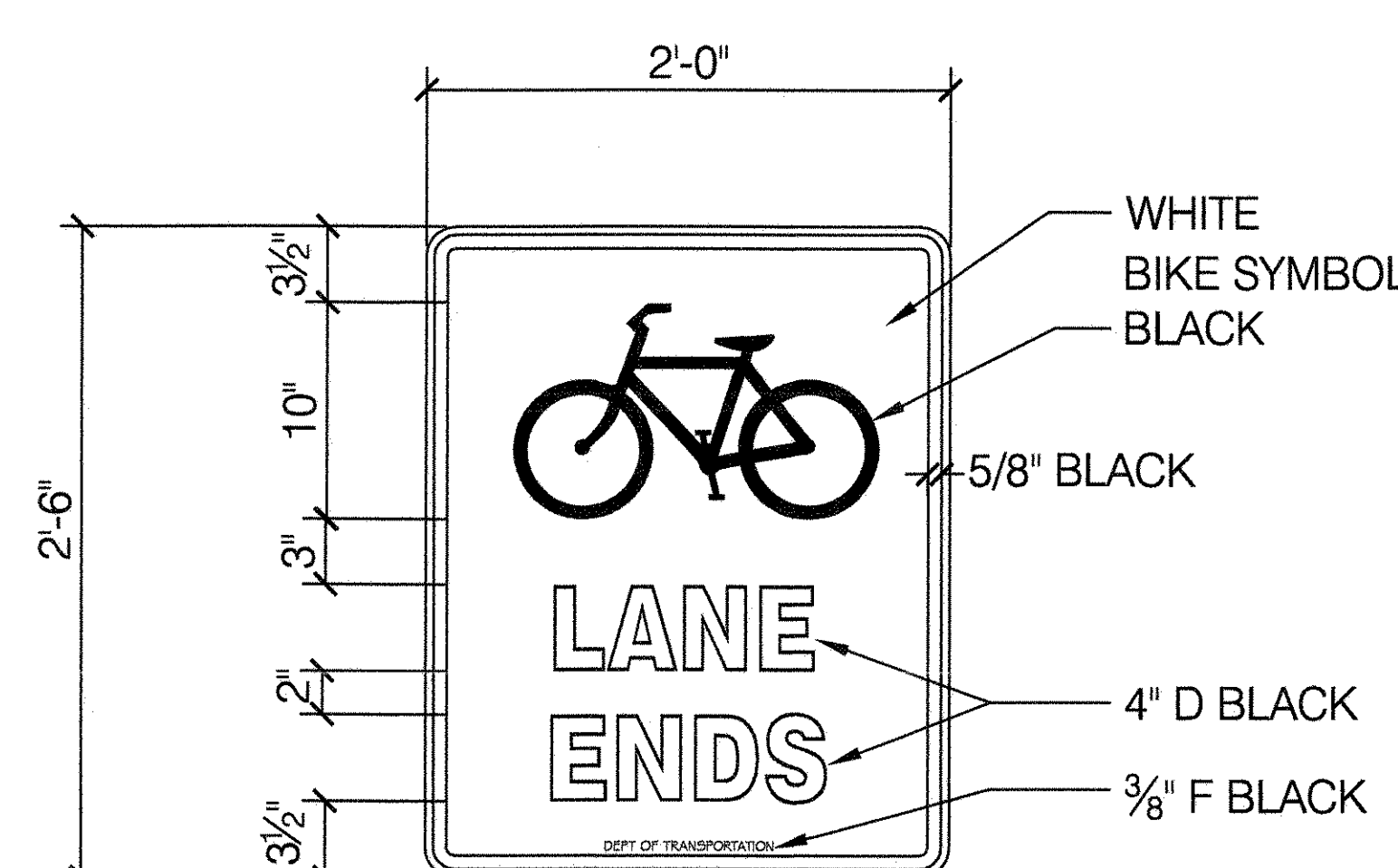
5 NYC DOT SIGN SR - 1437

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



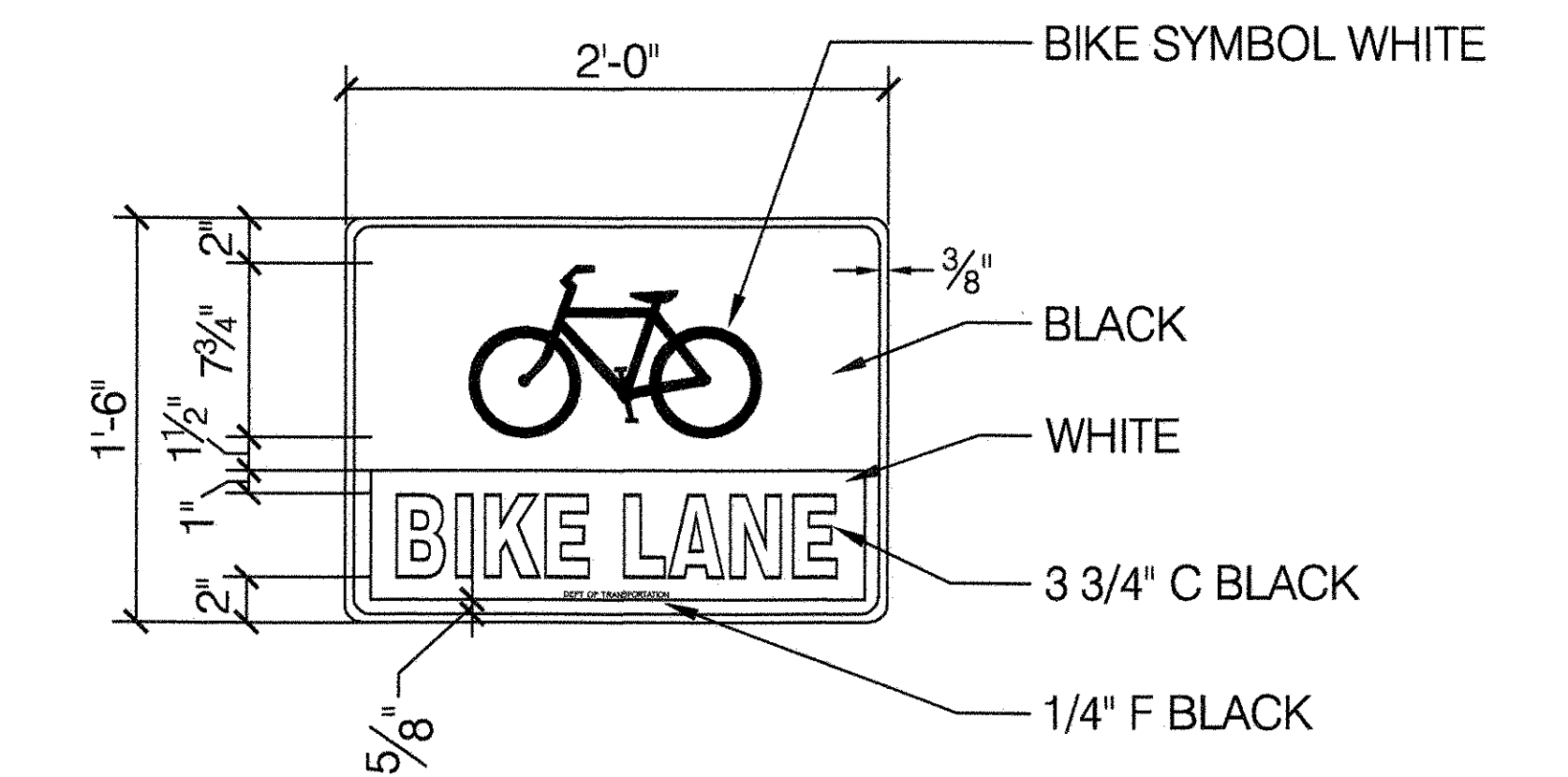
6 NYC DOT SIGN SR - 1438

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



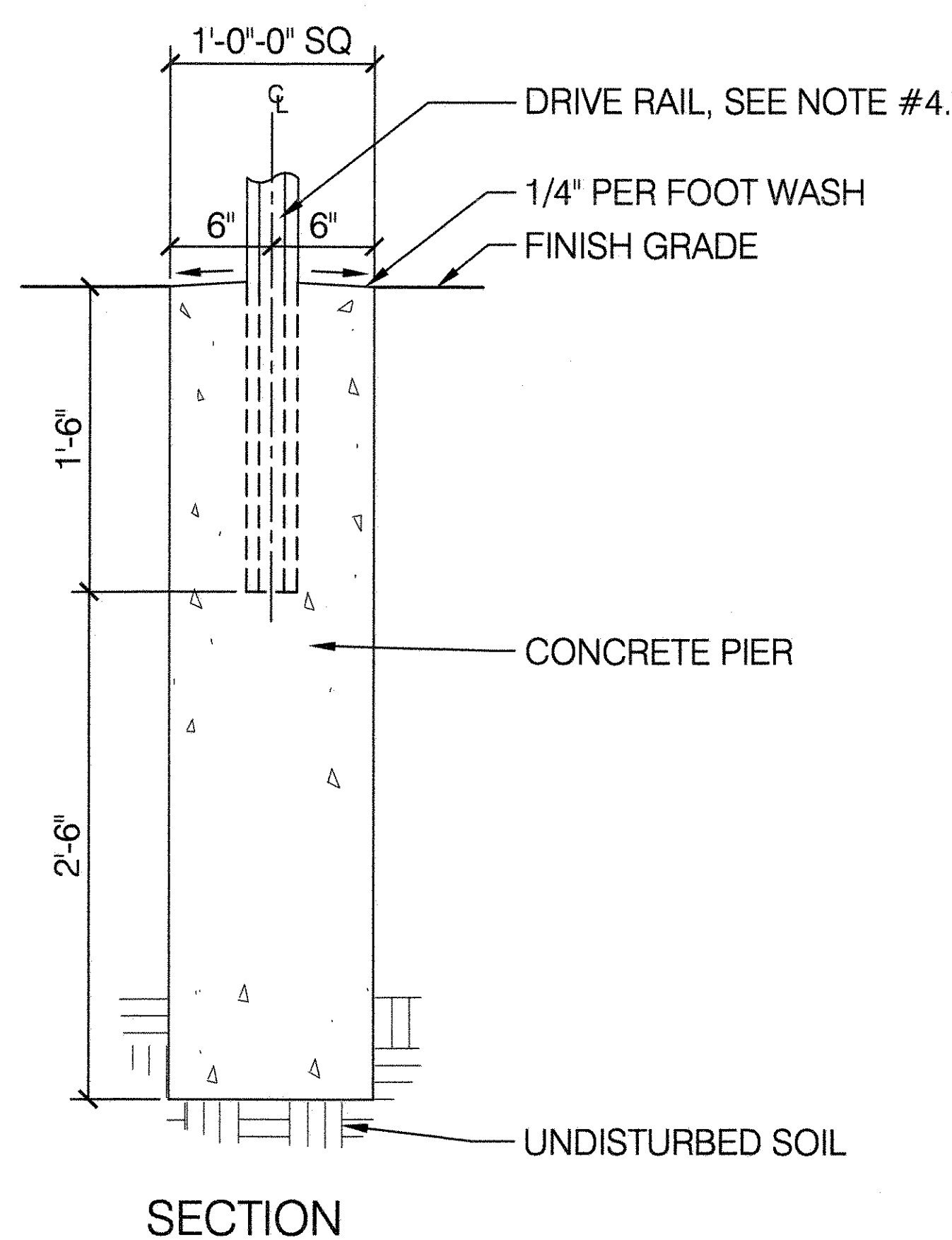
7 NYC DOT SIGN SR - 1438

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



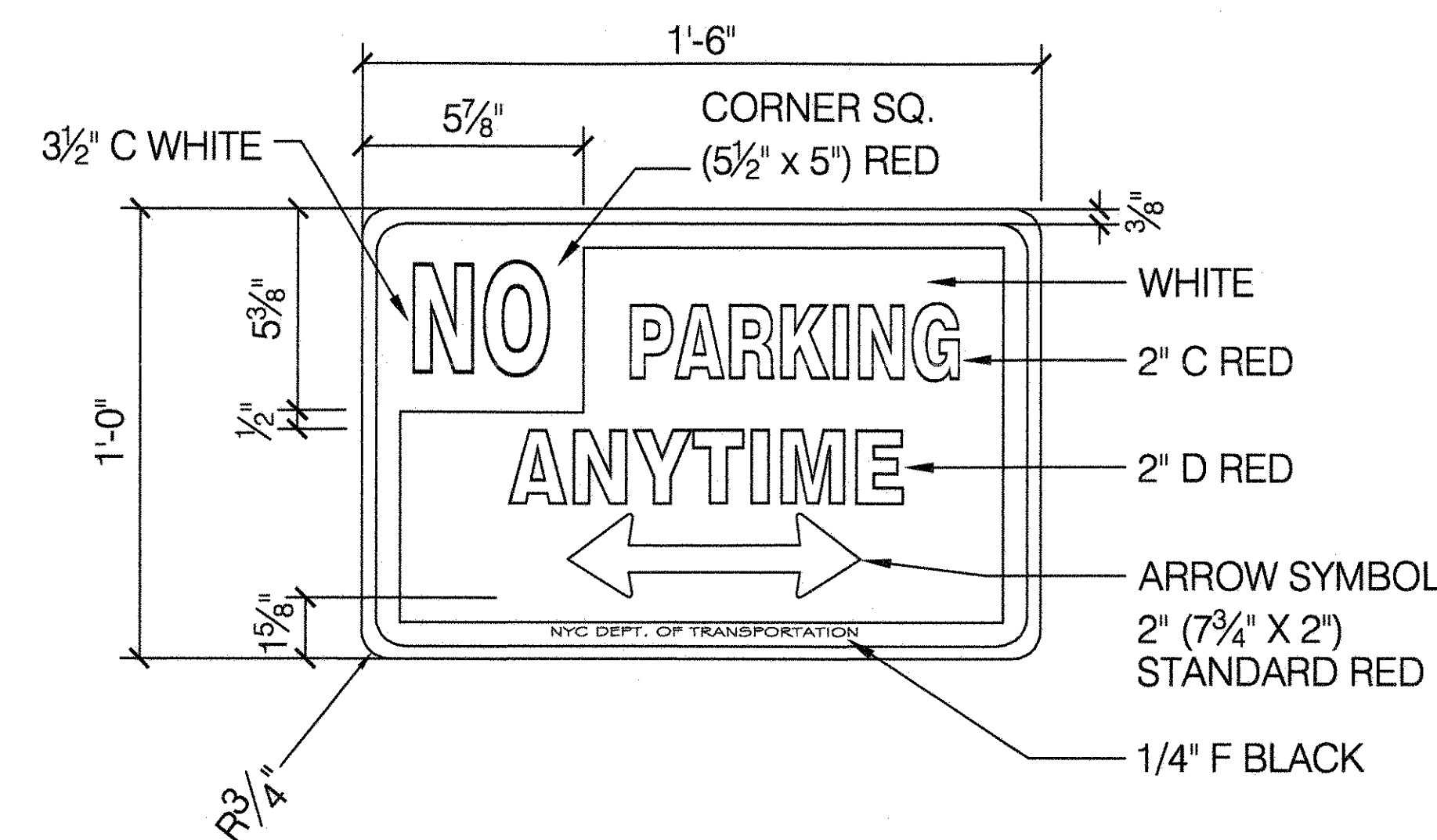
8 PIER FOR DRIVE RAIL

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



9 NYC DOT SIGN R7 - 40R

SCALE 3" = 1'-0"

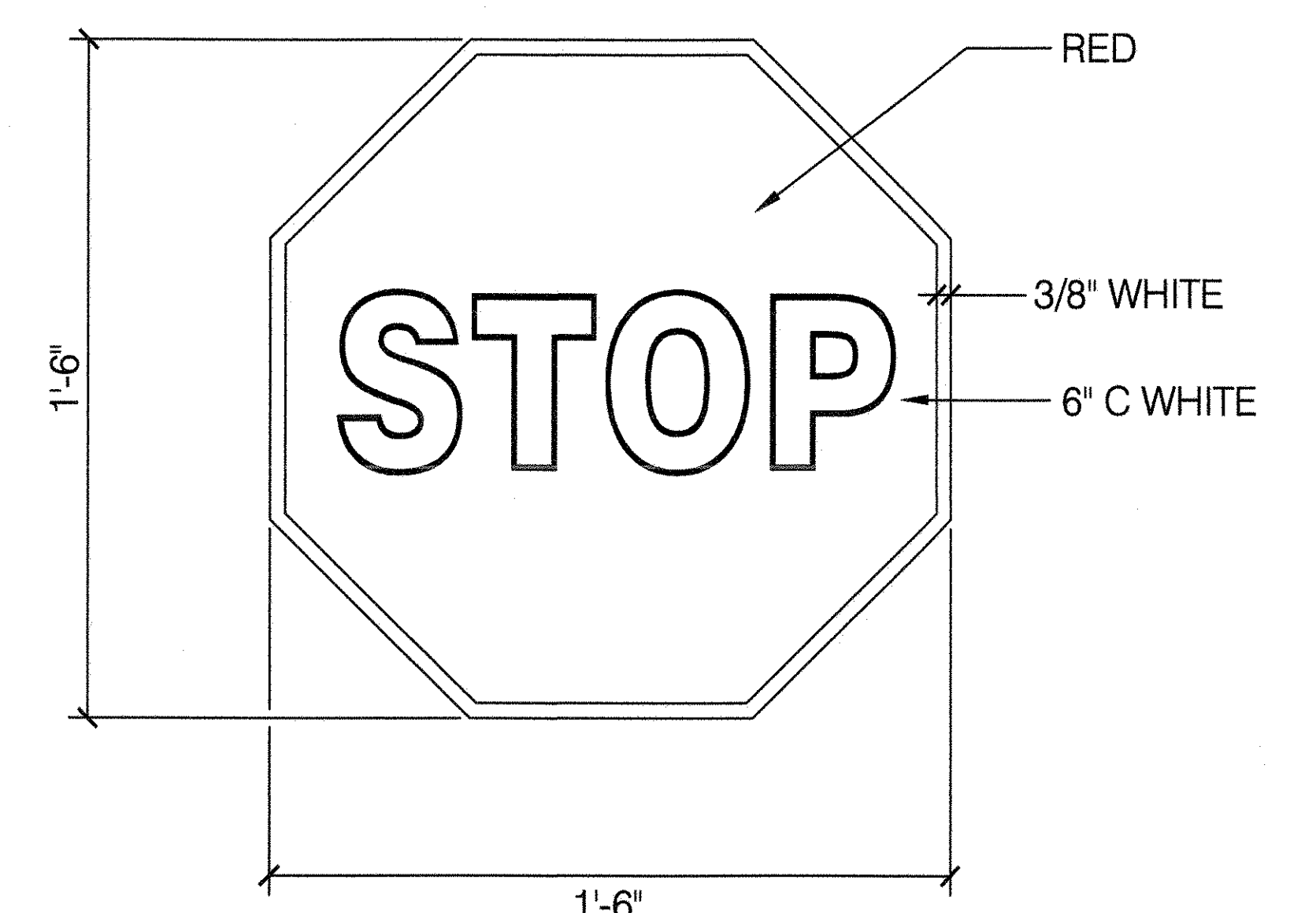


NOTES:

- SEE SPECIFICATION FOR INSTALLATION INSTRUCTIONS.
- ALL SIGNS SHALL MEET THE REQUIREMENTS OF NYC DOT BUREAU OF TRAFFIC OPERATIONS.
- LETTERS AND NUMBERS REFER TO BUREAU OF TRAFFIC CONTROL DESIGNATIONS.
- FOR SIGN SUPPORTS TO BE INSTALLED AT ROADSIDE LOCATIONS WHERE VEHICULAR SPEED MAY EXCEED 45MPH, BREAK-AWAY SIGN SUPPORTS SIMILAR TO NY STATE DEPARTMENT OF TRANSPORTATION DETAIL FOR "TYPE A SIGN SUPPORTS" SHALL APPLY.

10 NYC DOT SIGN SR - 1263

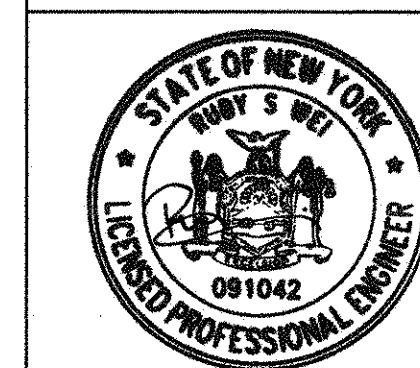
SCALE 3" = 1'-0"



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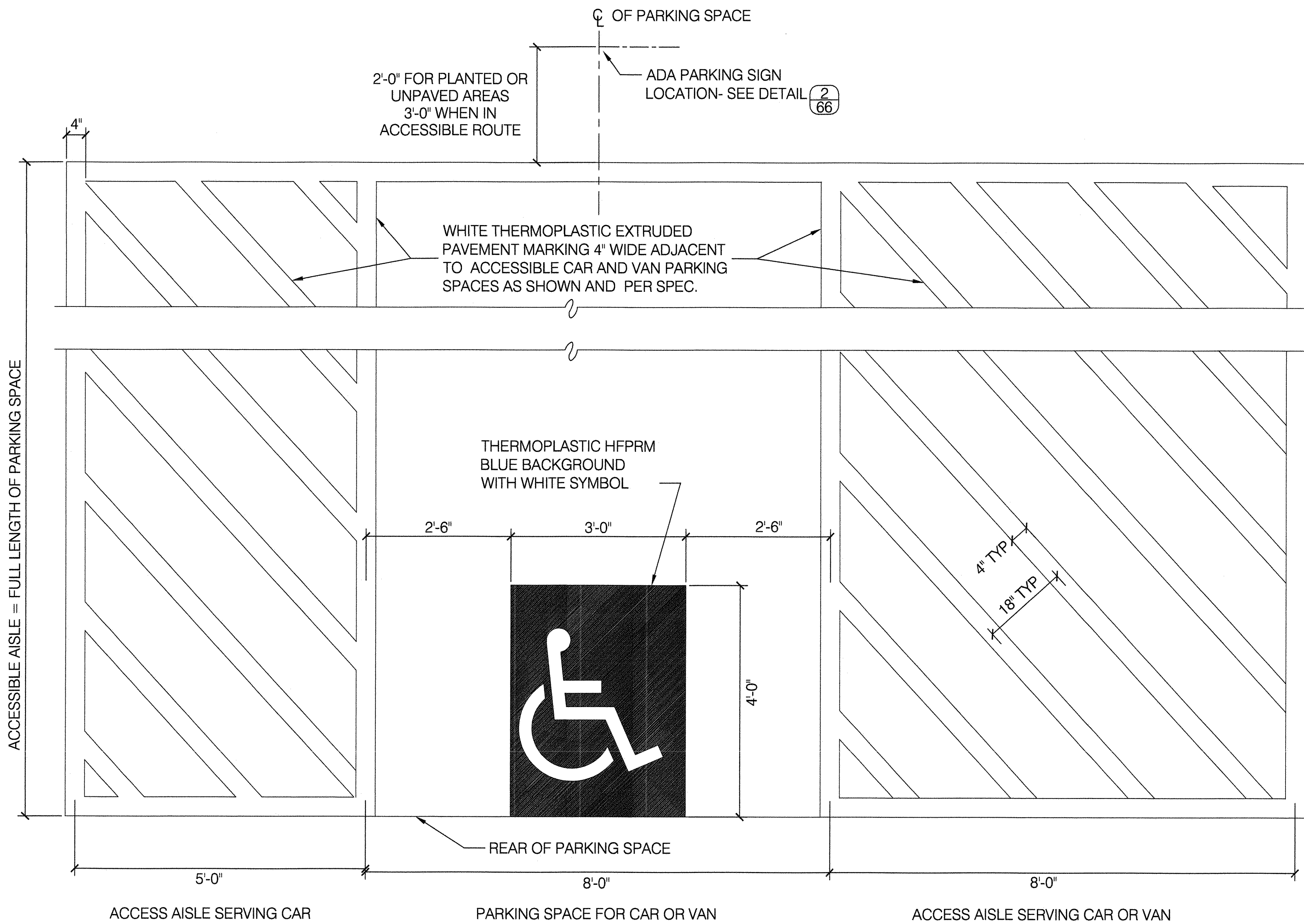
DRAWING TITLE
 GREENWAY NYC DOT (MUTCD) SIGNAGE



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APPROVED BY	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR R. WEI, PE	SHEET NO. 63
DATE 09-01-2020	SCALE AS SHOWN

1 ADA PARKING SPACE WITH CAR AND VAN ACCESS AISLES

SCALE: NOT TO SCALE



PLAN

- NOTES:
1. SEE TABLE 1 FOR ADA PARKING SPACE REQUIREMENTS
 2. THERMOPLASTIC HFPRM (HEAT FUSED PREFORMED PAVEMENT REFLECTIVE MARKING) SYMBOL SHALL BE STANDARD NYC DOT ADA MARKING FOR ACCESSIBLE PARKING

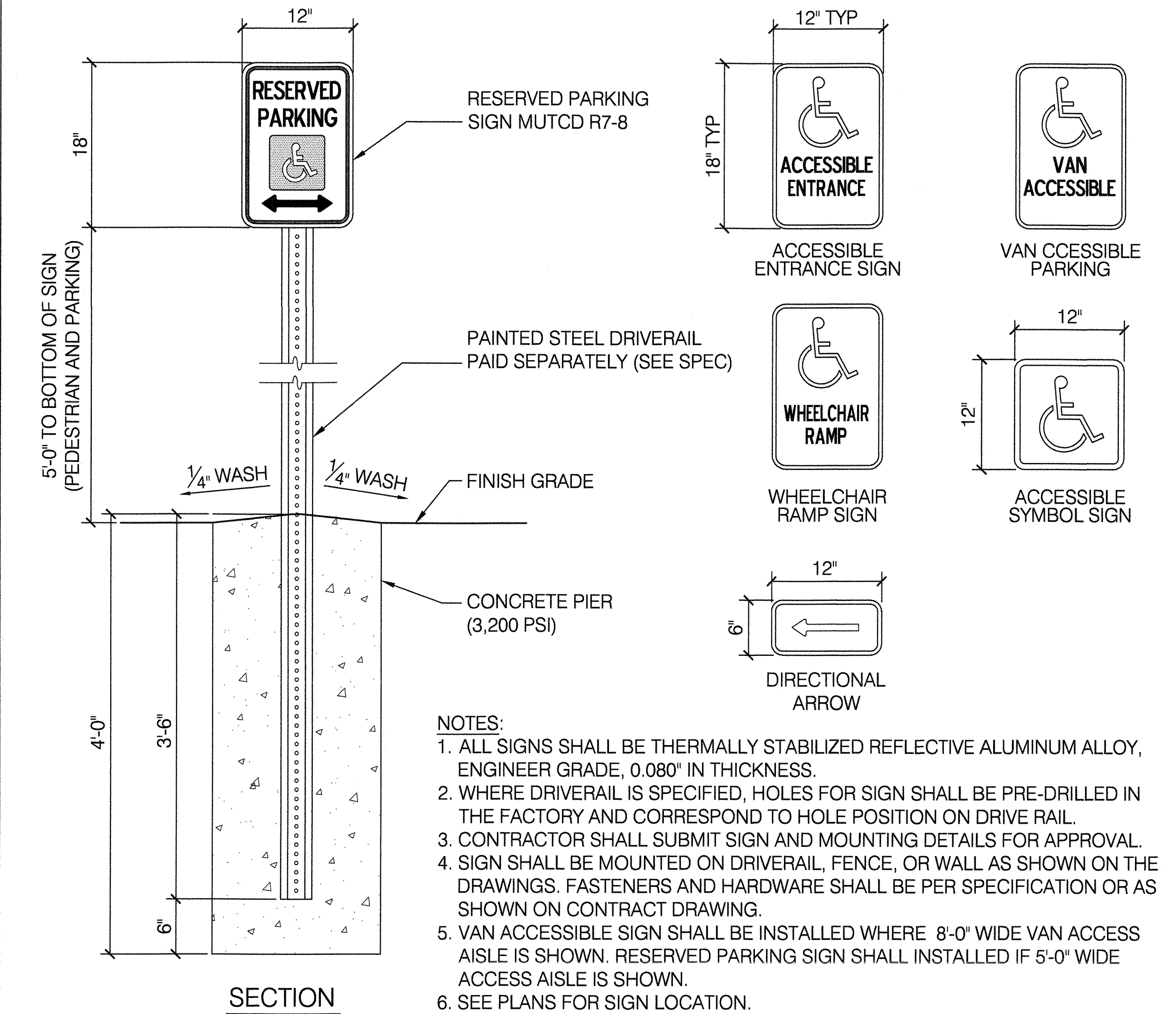
3 TABLE 1

MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES			
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 208.2.4			
TOTAL NUMBER OF PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES (CARS AND VANS)	NUMBER OF VAN SPACES WITH 8'-0" ACCESS AISLE	NUMBER OF CAR SPACES WITH 5'-0" ACCESS AISLE
1 TO 25	1	1	0
26 TO 50	2	1	1
51 TO 76	3	1	2
76 TO 100	4	1	3
101 TO 150	5	1	4
151 TO 200	6	1	5
201 TO 300	7	2	5
301 TO 400	8	2	6
401 TO 500	9	2	7
501 TO 1000	2% OF TOTAL PARKING SPACES PROVIDED IN EACH LOT	1/6 OF COLUMN A *	5/6 OF COLUMN A **
501 TO 1000	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000	1/6 OF COLUMN A *	5/6 OF COLUMN A **

* 1 OUT OF EVERY 6 SPACES ** 5 OUT OF EVERY 6 SPACES

2 ADA SIGNS AND DRIVERAIL

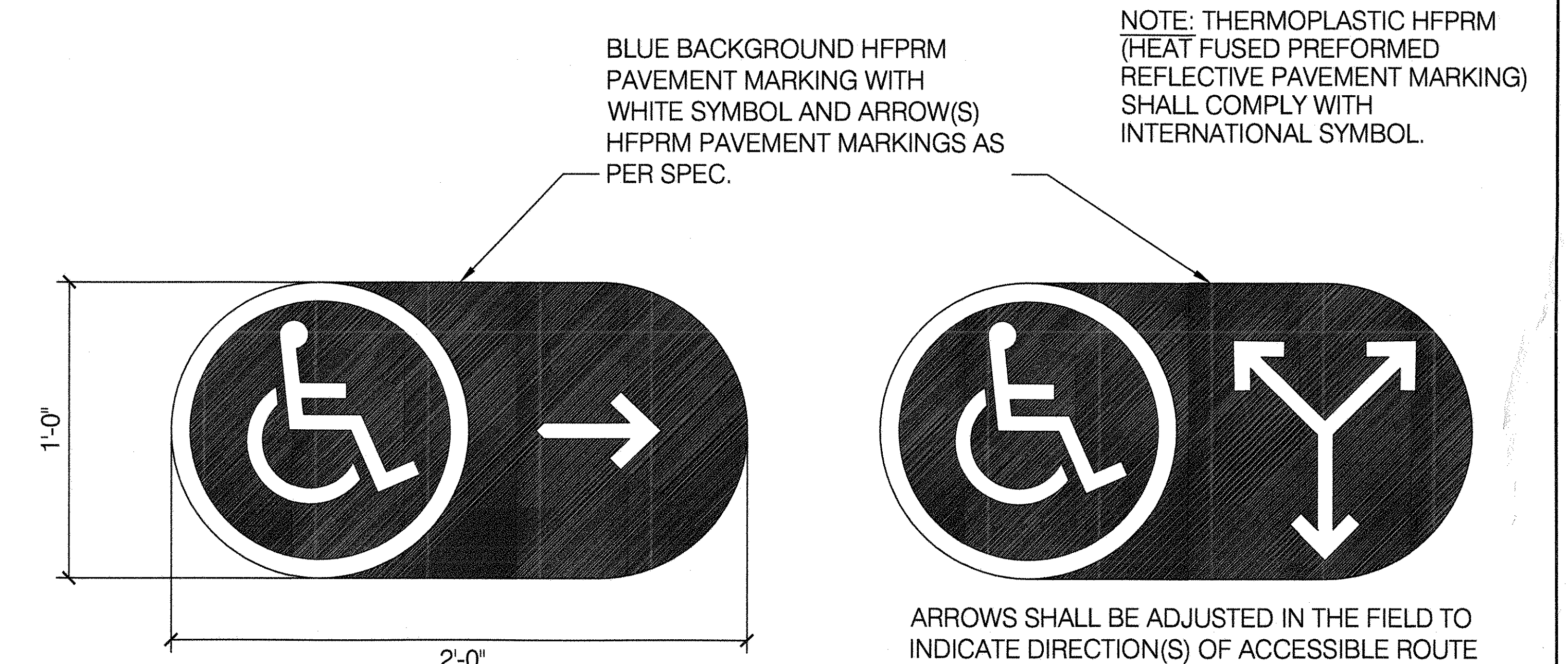
SCALE: NOT TO SCALE



SECTION

4 THERMOPLASTIC HFPRM A.D.A. ROUTE SYMBOL

SCALE 3" = 1'-0"



ARROWS SHALL BE ADJUSTED IN THE FIELD TO INDICATE DIRECTION(S) OF ACCESSIBLE ROUTE

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ADA SIGNAGE AND PAVEMENT MARKINGS

DRAWN BY S. MARCIONA	CHECKED BY R. WEI, PE
APPROVED BY RUBY WEI, PE	STANDARD D.P.R. DETAIL TYLA / 146-R10
APPROVED BY DIRECTOR RUBY WEI, PE	SHEET NO. 64
DATE 09-01-2020	SCALE AS SHOWN

NOTE:
ADA REFERS TO THE AMERICANS WITH DISABILITIES ACT OF 1991.