

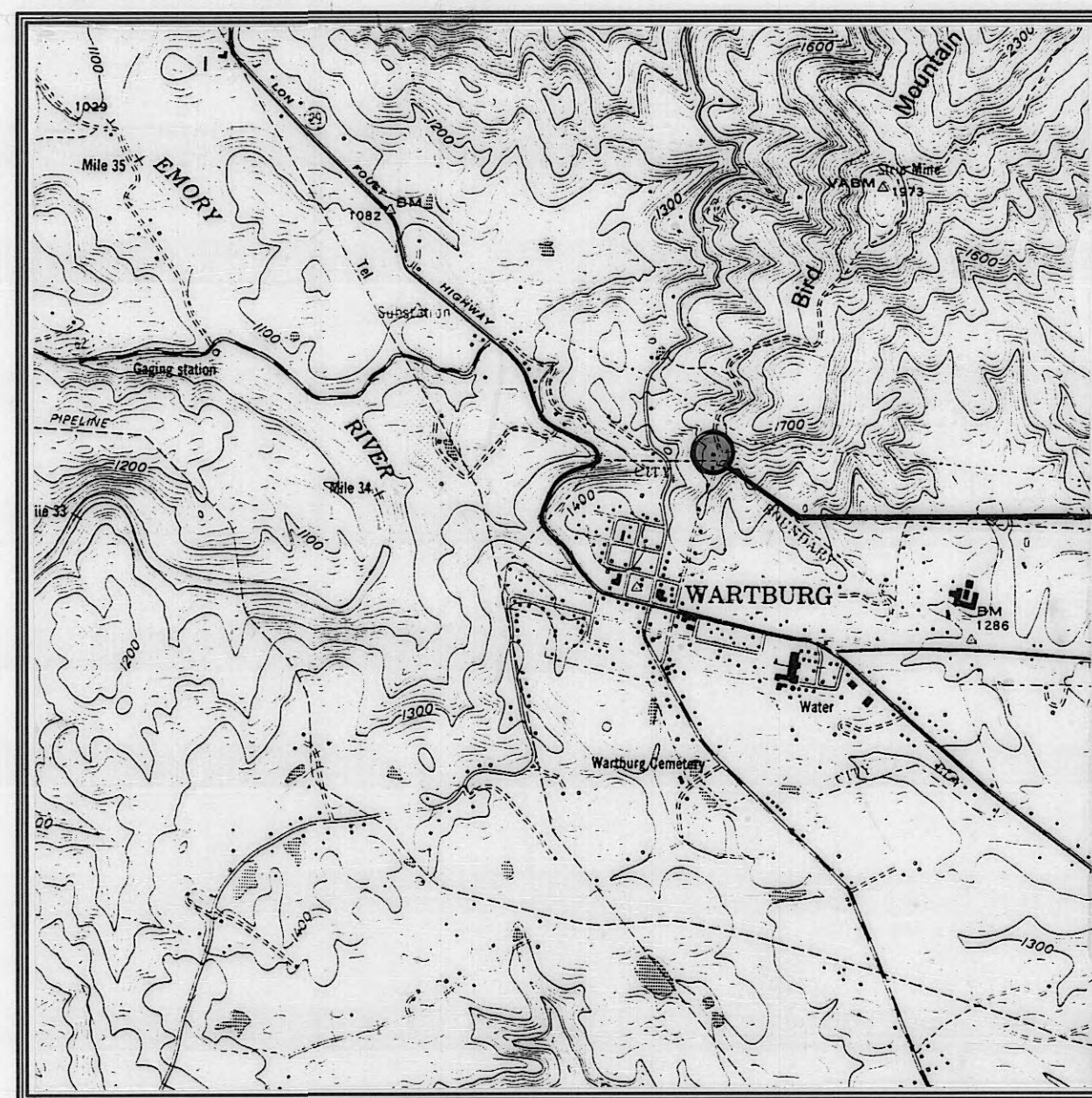
PLATEAU UTILITY DISTRICT

Morgan County, Tennessee

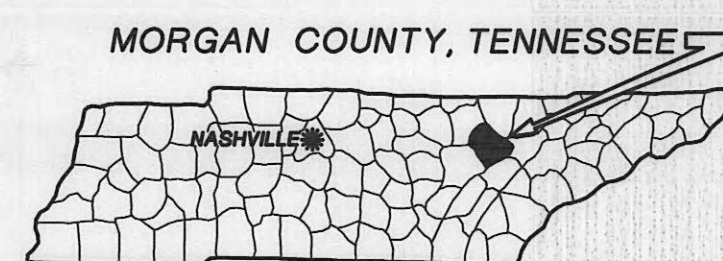
BIRD MOUNTAIN WATER STORAGE TANK 1.0 MILLION GALLON

CONTRACT 299

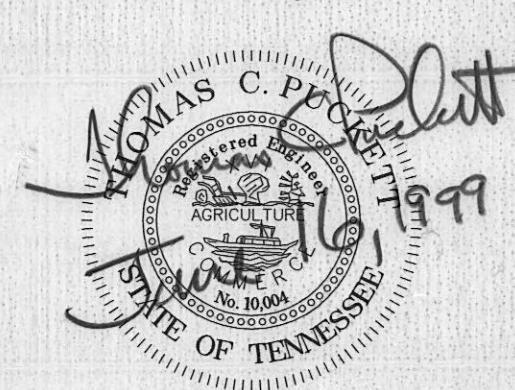
LOCATION MAP



PROJECT LOCATION



Project Engineer



SHEET INDEX

TITLE SHEET	
PROPOSED CONSTRUCTION GRADING PLAN-----	1
PROPOSED FINAL GRADING PLAN-----	2
CONCRETE WATER STORAGE TANK----- PLAN, SECTION & ELEVATION	3
CONCRETE WATER STORAGE TANK----- SECTIONS & DETAILS	4
CONCRETE WATER STORAGE TANK----- DETAILS	5

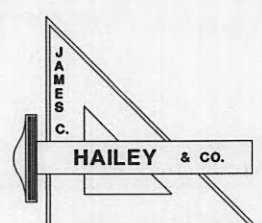
PLANS REVIEWED & APPROVED BY PLATEAU UTILITY DISTRICT

Ronnie Diden
RONNIE DIDEN, DISTRIBUTION SUPT.

DATE: 6-18-99

SET NUMBER _____

JCH PROJECT NO. 96205



JAMES C. HAILEY & CO. 2622 OLD LEBANON ROAD - SUITE 200 NASHVILLE, TENNESSEE

INSIDE DIAMETER = 70.00 FT.
DEPTH OF WATER = 34 FT. 9 IN.
OVERFLOW ELEV. = 1564.50
TOP OF FLOOR ELEV. = 1529.75

- 1.) ALL PIPING SHALL MEET APPLICABLE PROVISIONS OF THE "TECHNICAL SPECIFICATIONS - WATER SUPPLY FACILITIES". ALL YARD PIPING TO BE CLASS 51 DUCTILE IRON.
- 2.) ACTUAL ORIENTATION OF ALL ACCESSORIES TO BE APPROVED BY ENGINEER.
- 3.) PROVIDE CRUSHED STONE ACCESS ROAD 12' WIDE AROUND TANK AND FROM PAVED STREET TO TANK AS DIRECTED BY ENGINEER. ACCESS ROAD TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 4.) ENGINEERS REPRESENTATIVE WILL BE PRESENT DURING EXCAVATION OPERATION AND WILL DETERMINE THE FINAL LIMITS TO WHICH EXCAVATION MUST BE CARRIED. FINAL GRADE TO BE APPROVED BY ENGINEER IN FIELD.
- 5.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES FOR CONSTRUCTION.
- 6.) ALL SURPLUS EXCAVATION SHALL BE REMOVED FROM THE SITE.
- 7.) CARE SHALL BE GIVEN TO PROTECT ANY TREES WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES.
- 8.) DISTURBED AREAS TO BE GRADED TO DRAIN.



APARTMENT
BUILDING

IRON PIN ELEV. = 1539.25
(AS PER OLMSTEAD SURVEY 1-12-99)

MEASURED OVERFLOW
ELEV. = 1564.358

TANK "A"
0.3 MG STAND PIPE

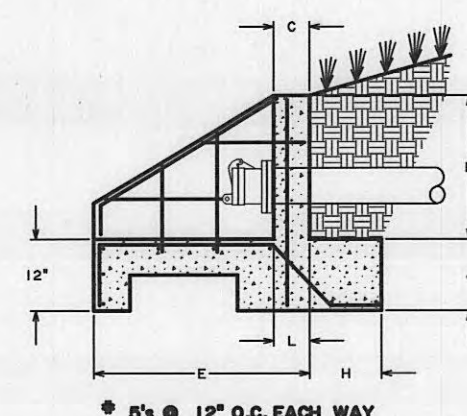
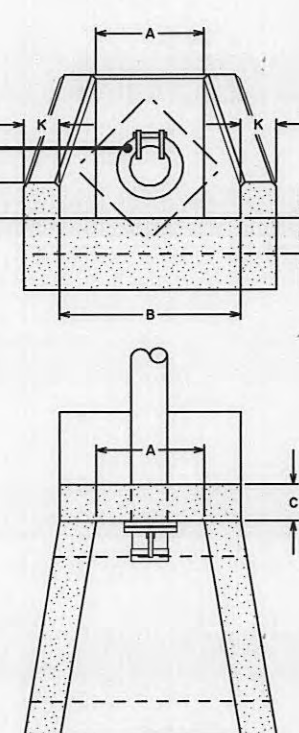
T.B.M. "X" ON
CONCRETE BOTTOM OF
TANK (FOOTER)
ELEV. = 1534.36
(AS PER OLMSTEAD SURVEY)

NOMINAL O.F.
ELEV. = 1565 FT.
TANK "B"
0.1 MG STAND PIP

HEADWALL DETAILS

CLOW F-3012
FLAP VALVE OR
APPROVED EQUAL

ELEVATION TO BE APPROVED
BY ENGINEER IN FIELD



A	2'-0"
B	3'-0"
C	6"
E	3'-0"
F	2'-0"
G	6"
H	1'-0"
J	1'-0"
K	6"
L	6"

REFERENCE:
BOUNDARY & TOPOGRAPHIC INFORMATION BASED ON SURVEYS
BY C. EUGENE OLMSTEAD, R.L.S. NO. 288, DATED JANUARY 6, 1998
AND JANUARY 12, 1999.

BIRD MOUNTAIN WATER STORAGE TANK
(1.0 MILLION GALLON)
PLATEAU UTILITY DISTRICT
Morgan County, Tennessee

PROPOSED
CONSTRUCTION GRADING
PLAN

DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
TCP	BCF	TCP	JUNE 1999	1" = 10'-0"	96205

SHE

—

CAD 20

PROPOSED 1.0 MG TANK

INSIDE DIAMETER = 70.00 FT.
 DEPTH OF WATER = 34 FT. 9 IN.
 OVERFLOW ELEV. = 1564.50
 TOP OF FLOOR ELEV. = 1529.75

PROPOSED
 6'-0" CHAIN LINK FENCE
 AT PERIMETER OF TANK SITE

ACCESS ROAD
 (SEE DETAIL SHEET 1)

PROPOSED
 1.0 MILLION GALLON
 WATER STORAGE TANK

PROPOSED
 12' DOUBLE LEAF GATE

APPROXIMATE LOCATION
 OF EXISTING WATERLINE

POWER
 POLE

PAVED STREET

APARTMENT
 BUILDING

IRON PIN ELEV. = 1539.25
 (AS PER OLMSTEAD SURVEY 1-12-99)

MEASURED OVERFLOW
 ELEV. = 1564.358

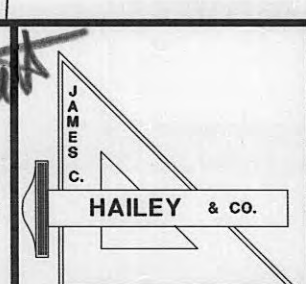
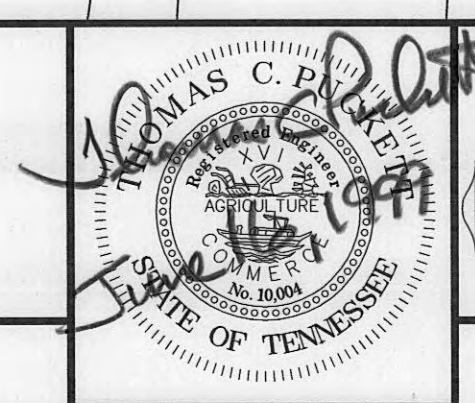
TANK "A"
 0.3 MG STAND PIPE

T.B.M. "X" ON
 CONCRETE BOTTOM OF
 TANK (FOOTER)
 ELEV. = 1534.36
 (AS PER OLMSTEAD SURVEY)

NOMINAL O.F.
 ELEV. = 1565 FT.

TANK "B"
 0.1 MG STAND PIPE

REFERENCE:
 BOUNDARY & TOPOGRAPHIC INFORMATION BASED ON SURVEYS
 BY C. EUGENE OLMSTEAD, R.L.S. NO. 288, DATED JANUARY 6, 1998
 AND JANUARY 12, 1999.



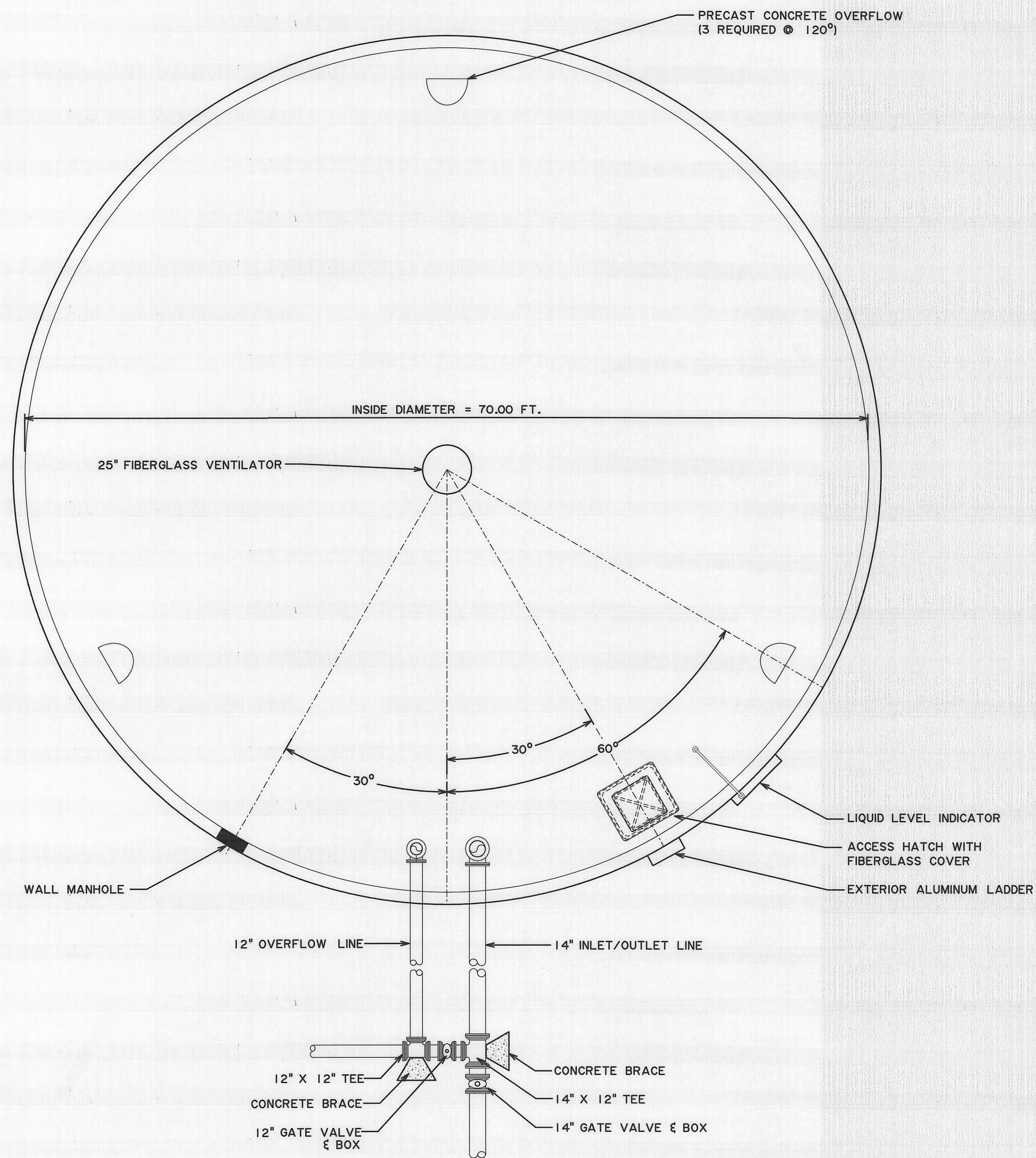
BIRD MOUNTAIN WATER STORAGE TANK
 (1.0 MILLION GALLON)
 PLATEAU UTILITY DISTRICT
 Morgan County, Tennessee

PROPOSED
 FINAL GRADING PLAN

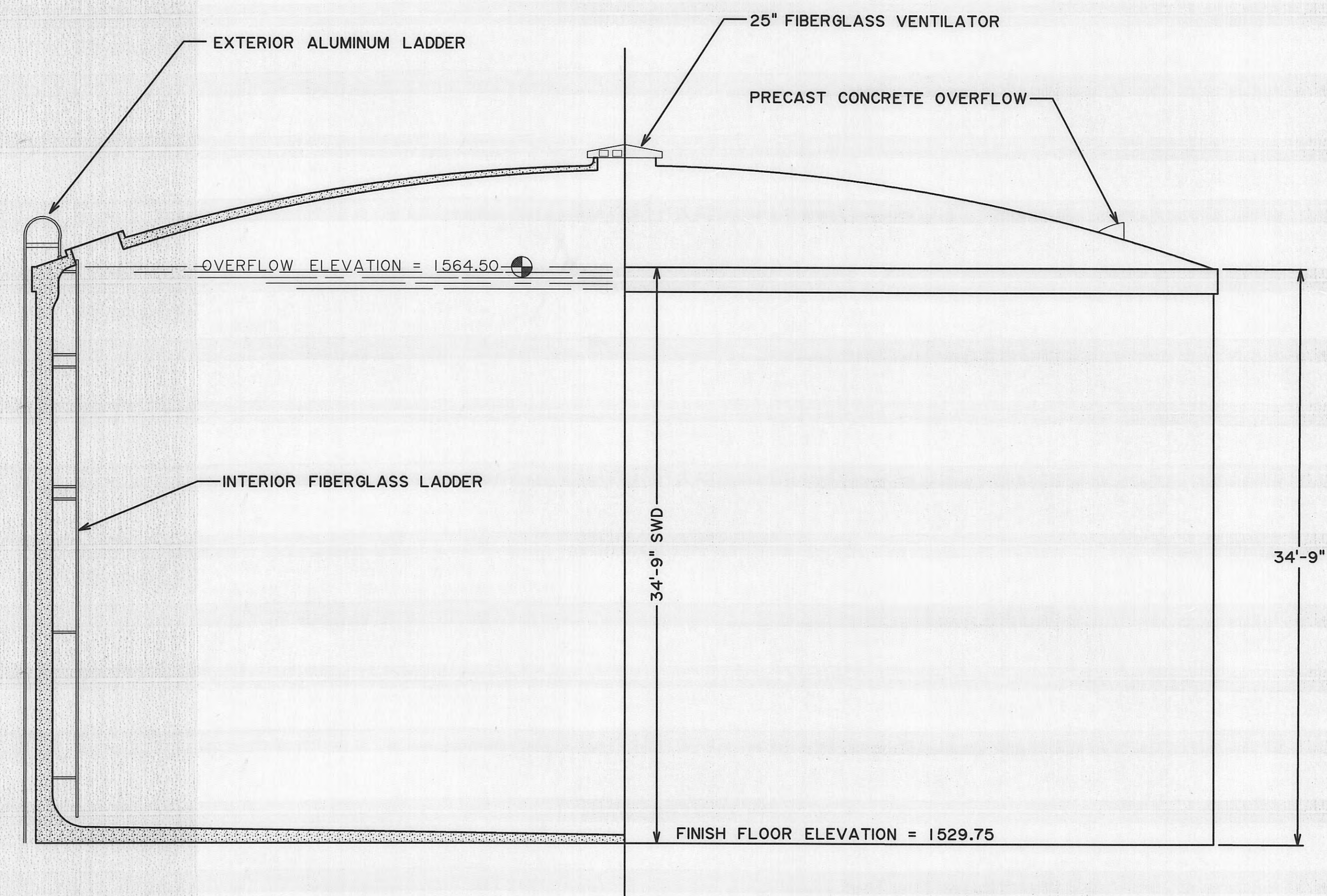
DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
TCP	BCF	TCP	JUNE 1999	1" = 10'-0"	96205

SHEET
 2

CAD
 1/24



TANK PLAN
SCALE: $\frac{3}{16}" = 1'-0"$

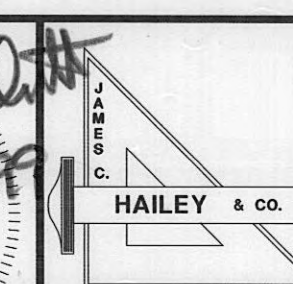
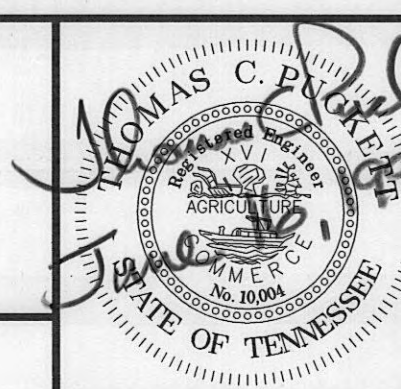


TANK SECTION / ELEVATION

SCALE: $\frac{3}{16}" = 1'-0"$

NOTES:

1. PRESTRESSED CONCRETE TANK CONTRACTOR TO PROVIDE STRUCTURAL DESIGN OF TANK AND FOUNDATION.
2. CONTRACTOR SHALL PERFORM TEST DRILLINGS AS PER PRELIMINARY SITE EVALUATION IN THE PRESENCE OF GEOTECHNICAL ENGINEER. PRELIMINARY SITE EVALUATION CAN BE OBSERVED IN TECHNICAL SPECIFICATIONS.



PLATEAU
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Morgan County, Tennessee

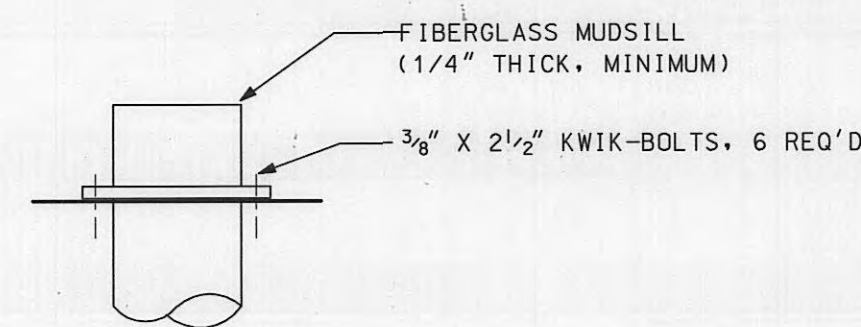
DESIGN: TCP
DRAWN: BCF
CHECKED: TCP

CONCRETE
WATER STORAGE TANK
PLAN, SECTION & ELEVATION

DATE: JUNE 1999
SCALE: AS NOTED
PROJECT NO.: 96205

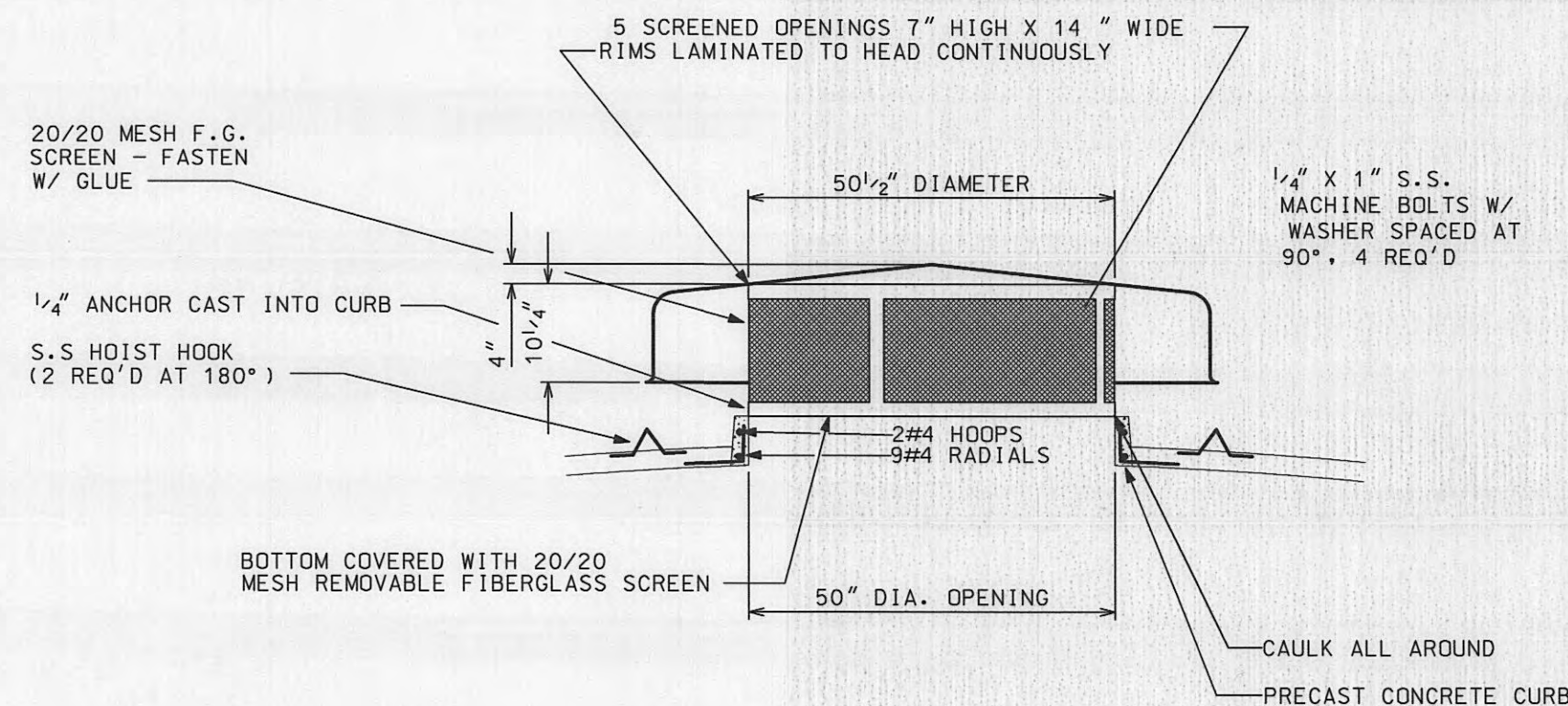
SHEET
3

100
100



FIBERGLASS MUDSILL

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



50" FIBERGLASS VENTILATOR

NOT TO SCALE

DOME SHELL THICKNESS 3" AT 4'-0" FROM WALL
1 1/2" BOLSTER WITH PLASTIC TIPS (ALL AROUND) AT 3'
& 5' FROM DOME EDGE TO SUPPORT RESTEEL
FIELD BEND OUTSIDE VERTICAL RESTEEL TO PROVIDE
1" MINIMUM AND 2" MAXIMUM COVER

TOP OF STEEL
SHELL DIAPHRAGM
SPRINGLINE

LIMIT OF DOME BAND
PRESTRESSING WIRES

SHOOT MIN. OF 1" COVER COAT OVER
PRESTRESSING WIRES

OUTSIDE VERTICAL RESTEEL

CORE WALL

4X4 W4.0 X W4.0
WIRE MESH EXTEND OVER
DIAPHRAGM TO WITHIN
1 1/2" OF DOME EDGE

4 #4's CIRCUMFERENTIALLY AT 6"

#3 AT 48" 3' 2'-0"

6 - #4's CIRCUMFERENTIALLY (3 OUTSIDE, 3 INSIDE)

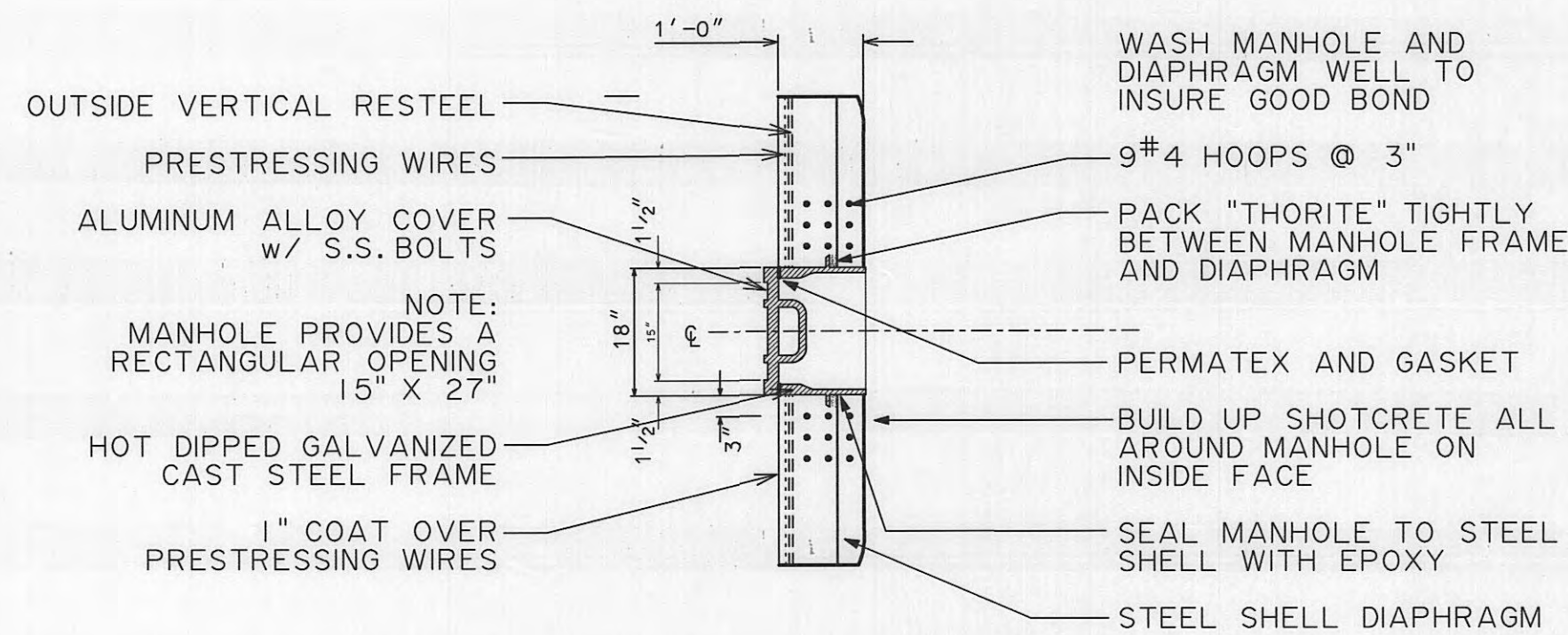
NOTE: SEAL DOME RIB BRACKET
ANCHORS WITH "THORITE"

NOTE: PRIOR TO CASTING DOME, SANDBLAST
TOP OF WALL AND IMMEDIATELY PRIOR
TO CASTING, COAT WITH BONDING EPOXY (580)

26 GAUGE STEEL SHELL DIAPHRAGM

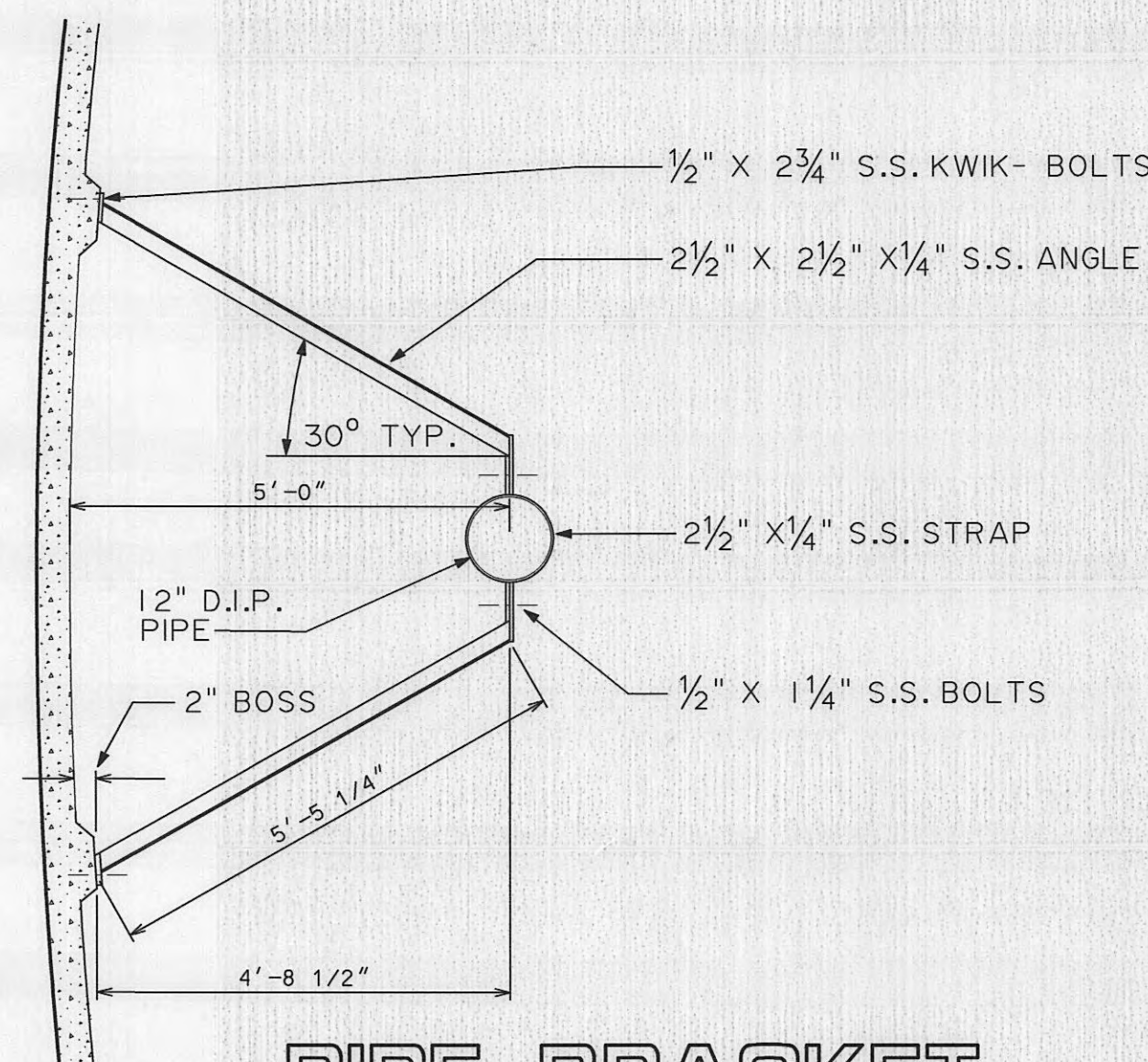
DOME RING DETAIL

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



WALL MANHOLE

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



PIPE BRACKET

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

SHOOT MIN. 1" COVER COAT OVER
PRESTRESSING WIRES
PRESTRESSING WIRES
OUTSIDE VERTICAL RESTEEL:
#5's @ 10" O.C.

SHOOT MINIMUM 1/2" COVER BETWEEN
VERTICAL BARS AND PRESTRESSING WIRES
AND BETWEEN EACH LAYER OF PRESTRESSING
WIRES

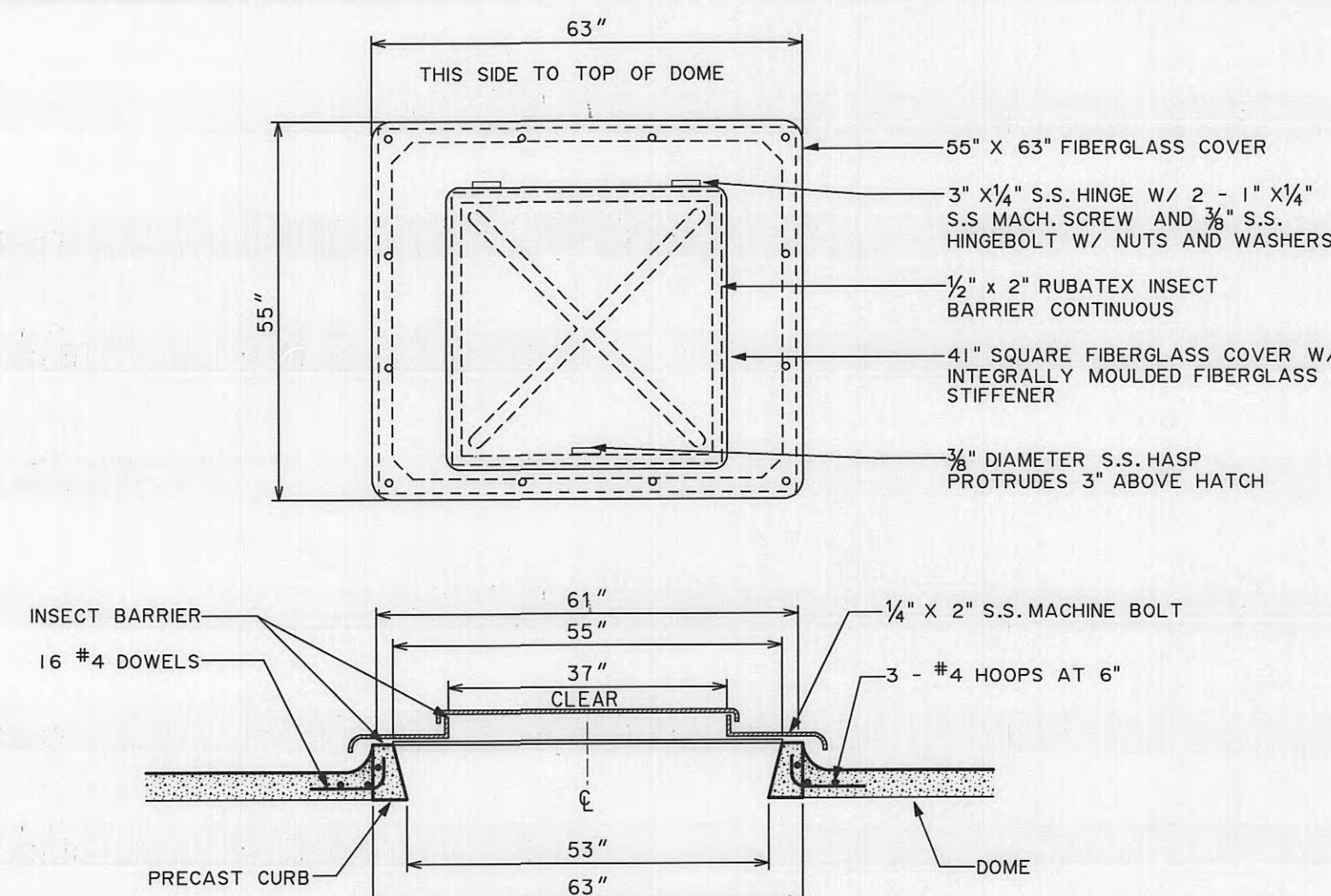
1" COVER OVER DIAPHRAGM
RIPPLE PATTERN ACCEPTABLE

26 GAUGE STEEL SHELL
DIAPHRAGM SEALED WATER-
TIGHT BY EPOXY INJECTION (16-26)
NO HORIZONTAL JOINTS ALLOWED

INSIDE VERTICAL RESTEEL
#4 AT 12"

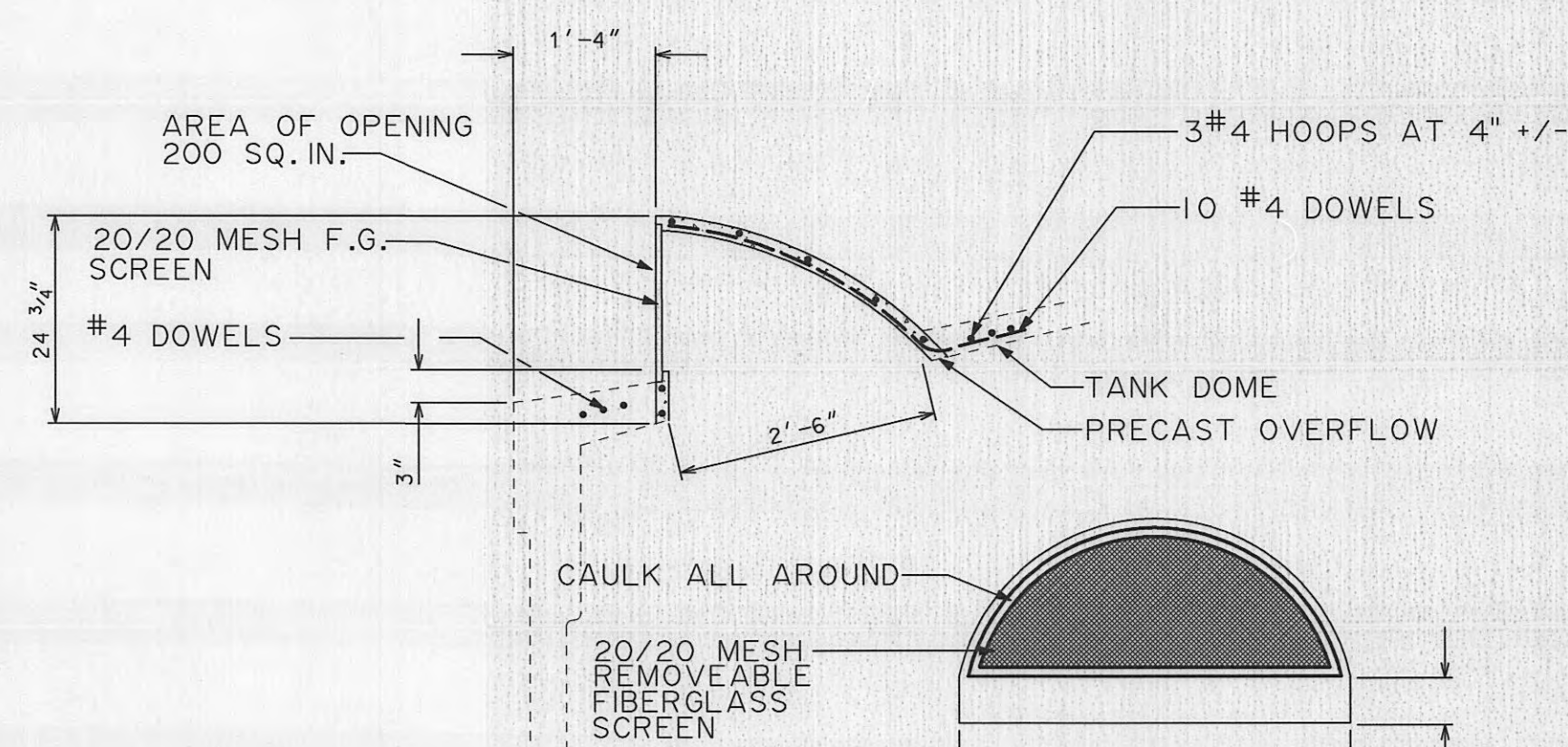
HORIZONTAL WALL SECTION

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



HATCH COVER AND CURB

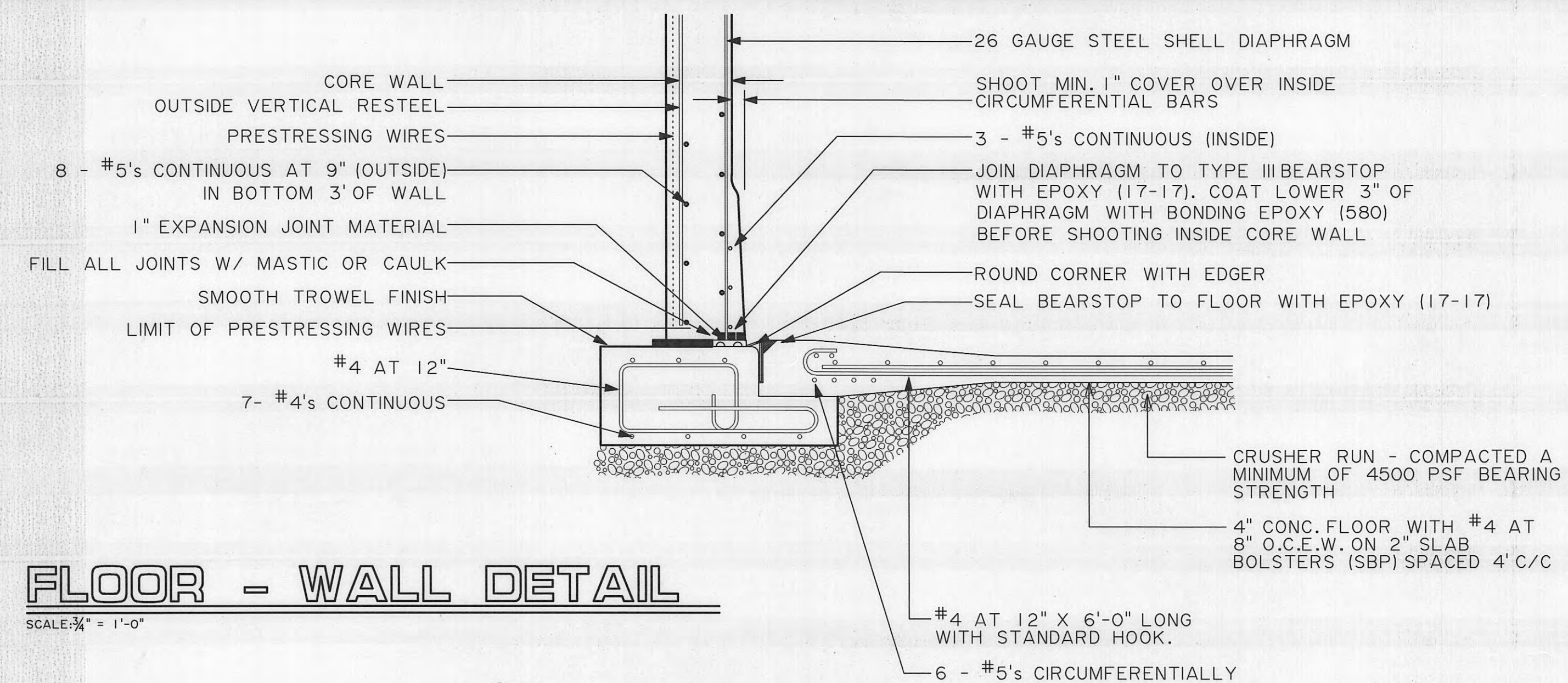
SCALE: 1/2" = 1'-0"



NOTE: KEEP SHOTCRETE REBOUND CLEANED OFF OVERFLOW. LEAVE PLY-
WOOD COVER IN PLACE UNTIL ALL SHOTCRETING IS COMPLETE.

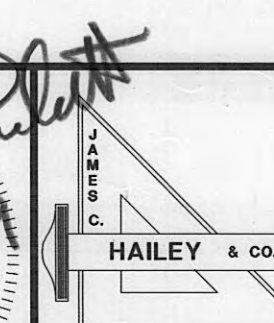
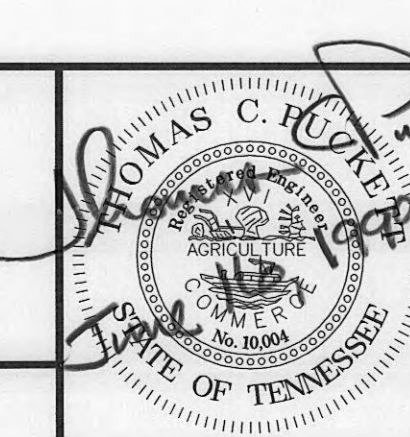
PRECAST CONCRETE OVERFLOW

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



FLOOR - WALL DETAIL

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



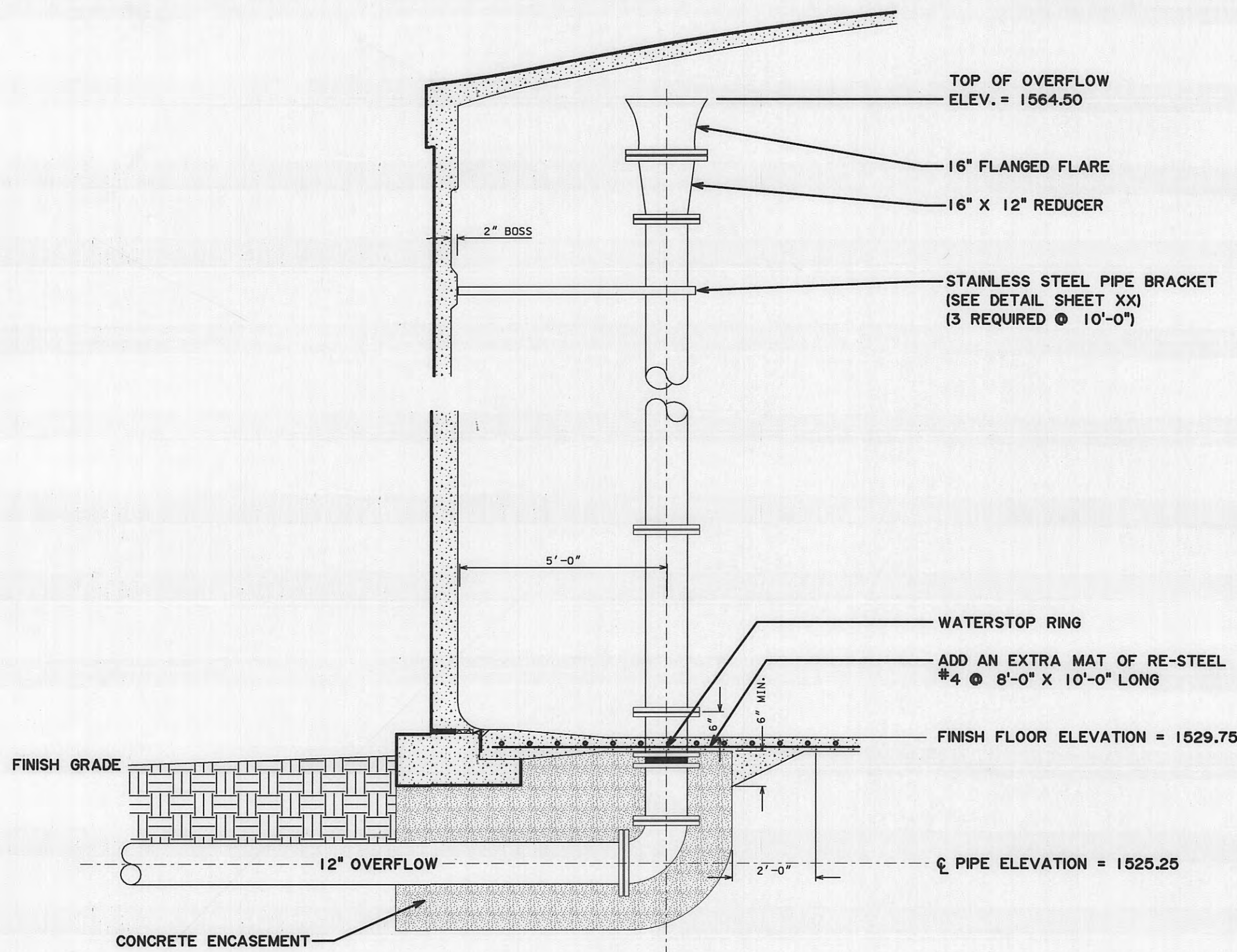
PLATEAU
UTILITY DISTRICT
Morgan County, Tennessee

CONCRETE
WATER STORAGE TANK
SECTIONS & DETAILS

DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
TCP	BCF	TCP	JUNE 1999	AS NOTED	96205

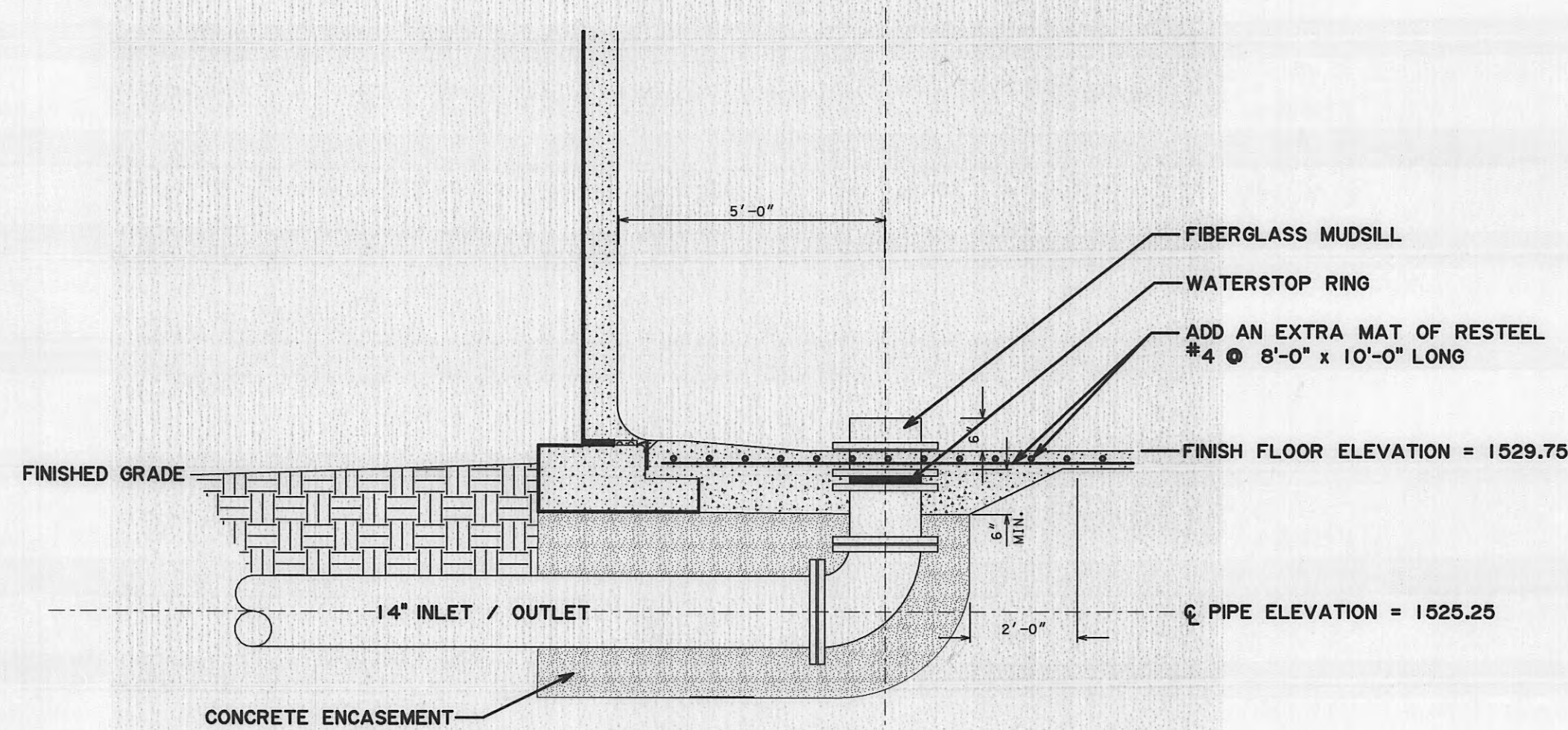
SHEET

4



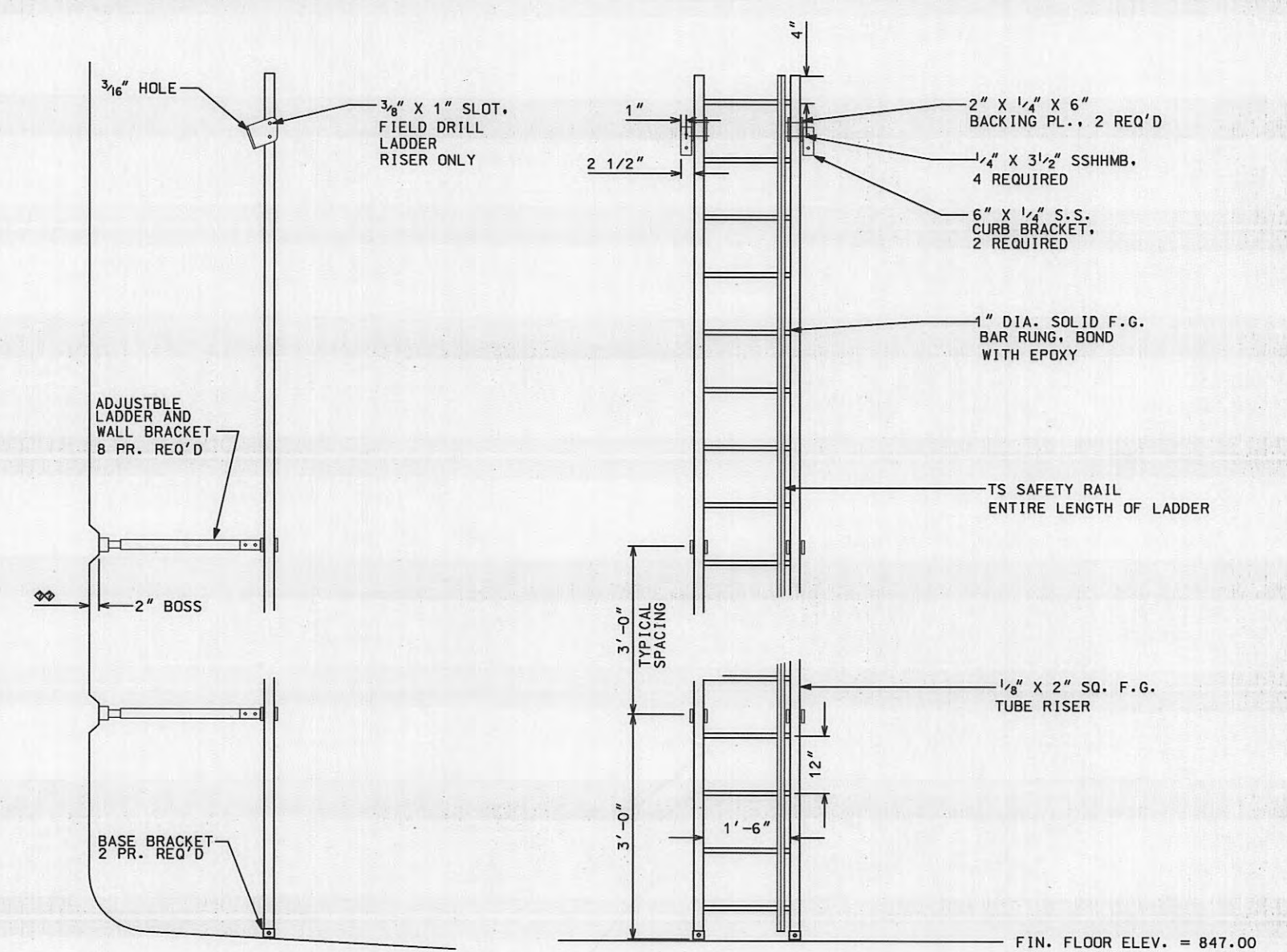
OVERFLOW DETAIL

NOT TO SCALE



INLET - OUTLET DETAIL

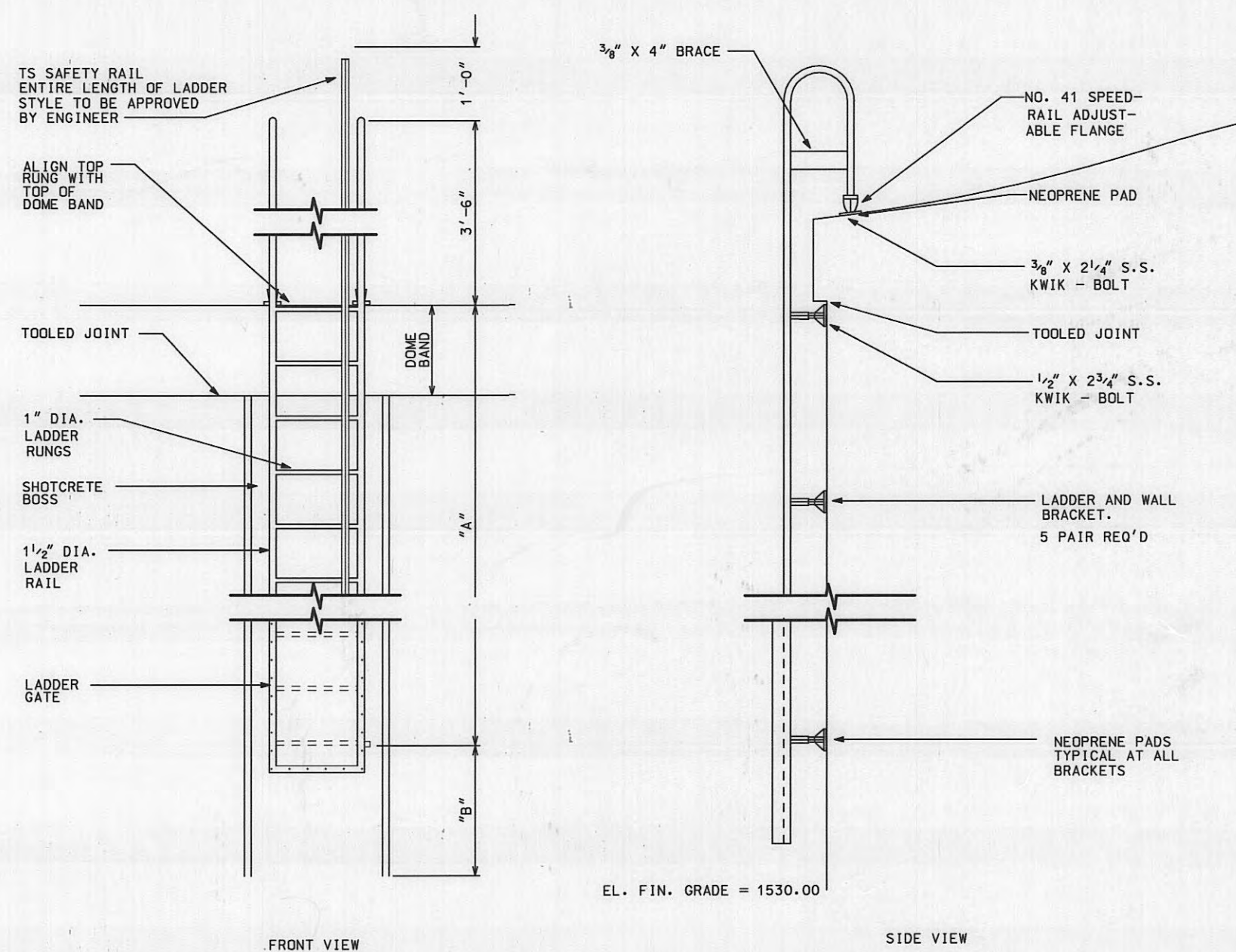
NOT TO SCALE



NOTE: 1/4" X 2" FLAT BAR FIBERGLASS CROSS-BRACE TO BE PROVIDED FOR BRACING WALL BRACKET SUPPORTS ON LADDERS OVER 20'-0" TALL. INSTALL ON EVERY OTHER BRACKET.

INTERIOR LADDER DETAIL

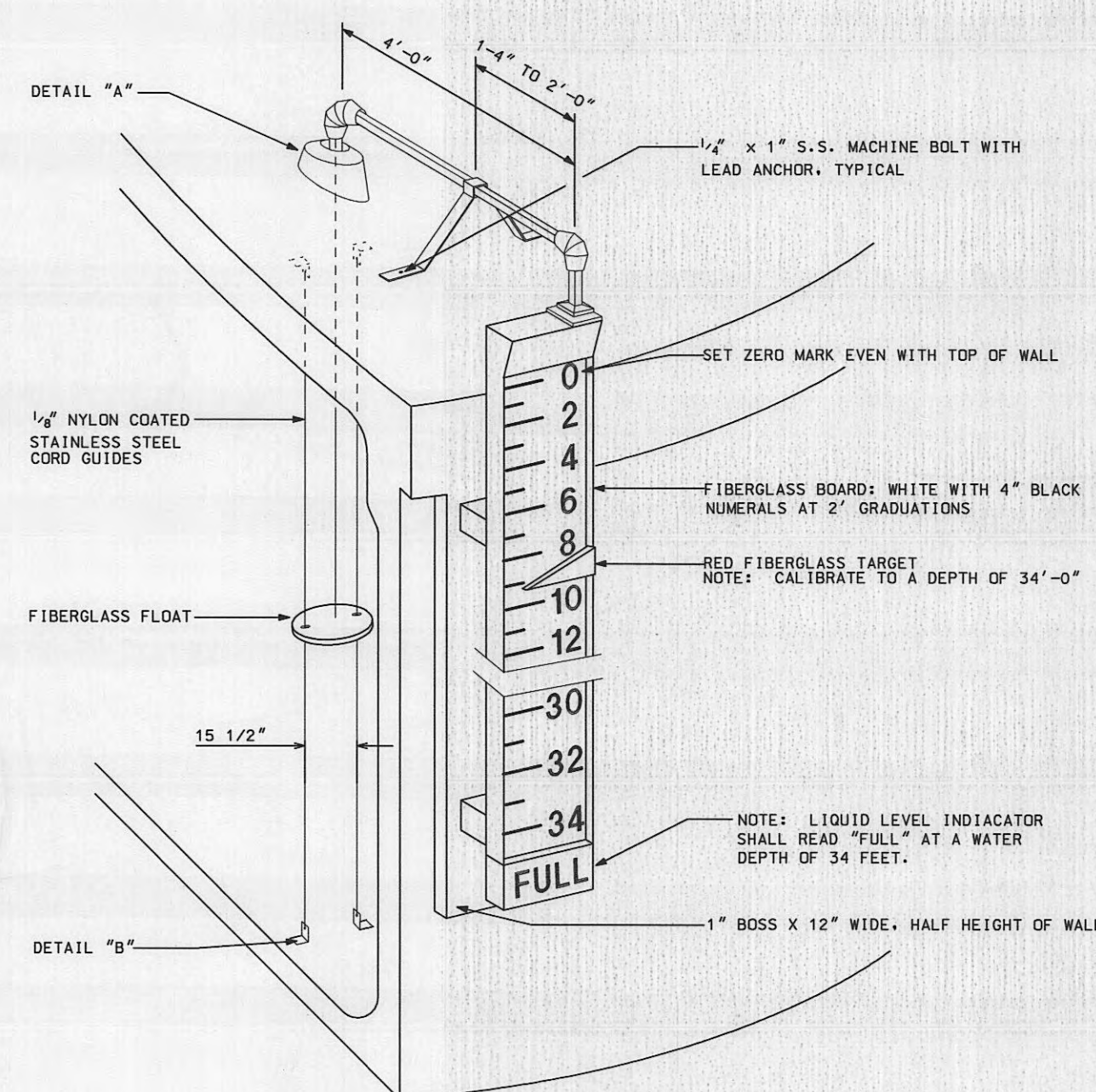
SCALE: 3/8" = 1'-0"



NOTES: 1. ALL TUBULAR MATERIAL TO BE NOMINAL DIAMETER SCHEDULE 40 ALUMINUM PIPE 6061-T6.
2. PLATES AND GUSSETS TO BE STRUCTURAL GRADES ALUMINUM 6061-T6.

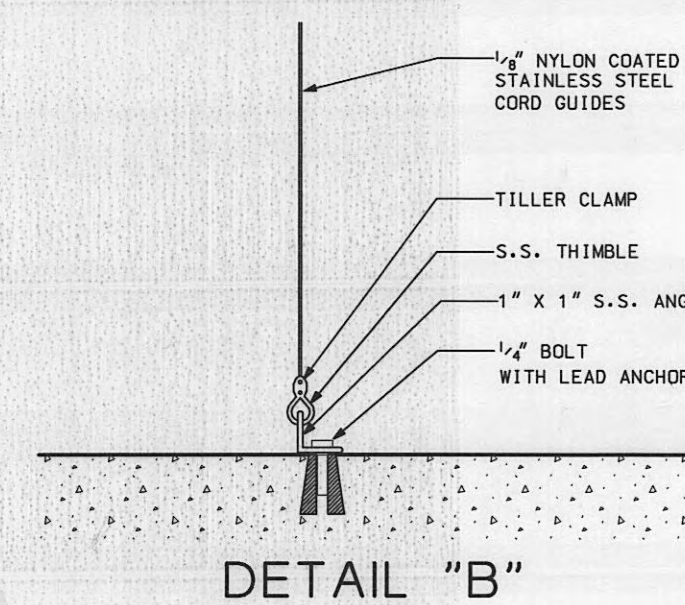
EXTERIOR LADDER DETAIL

SCALE: 3/8" = 1'-0"

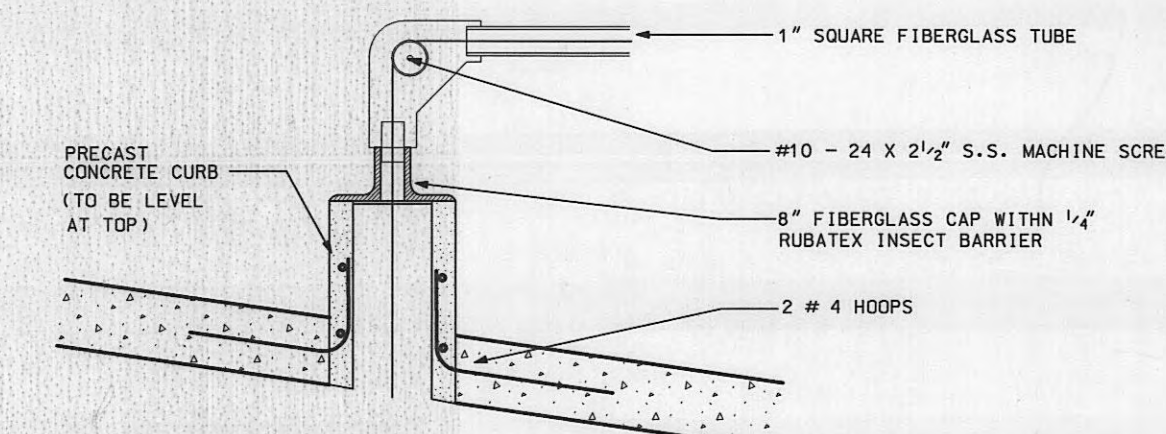


LIQUID LEVEL INDICATOR

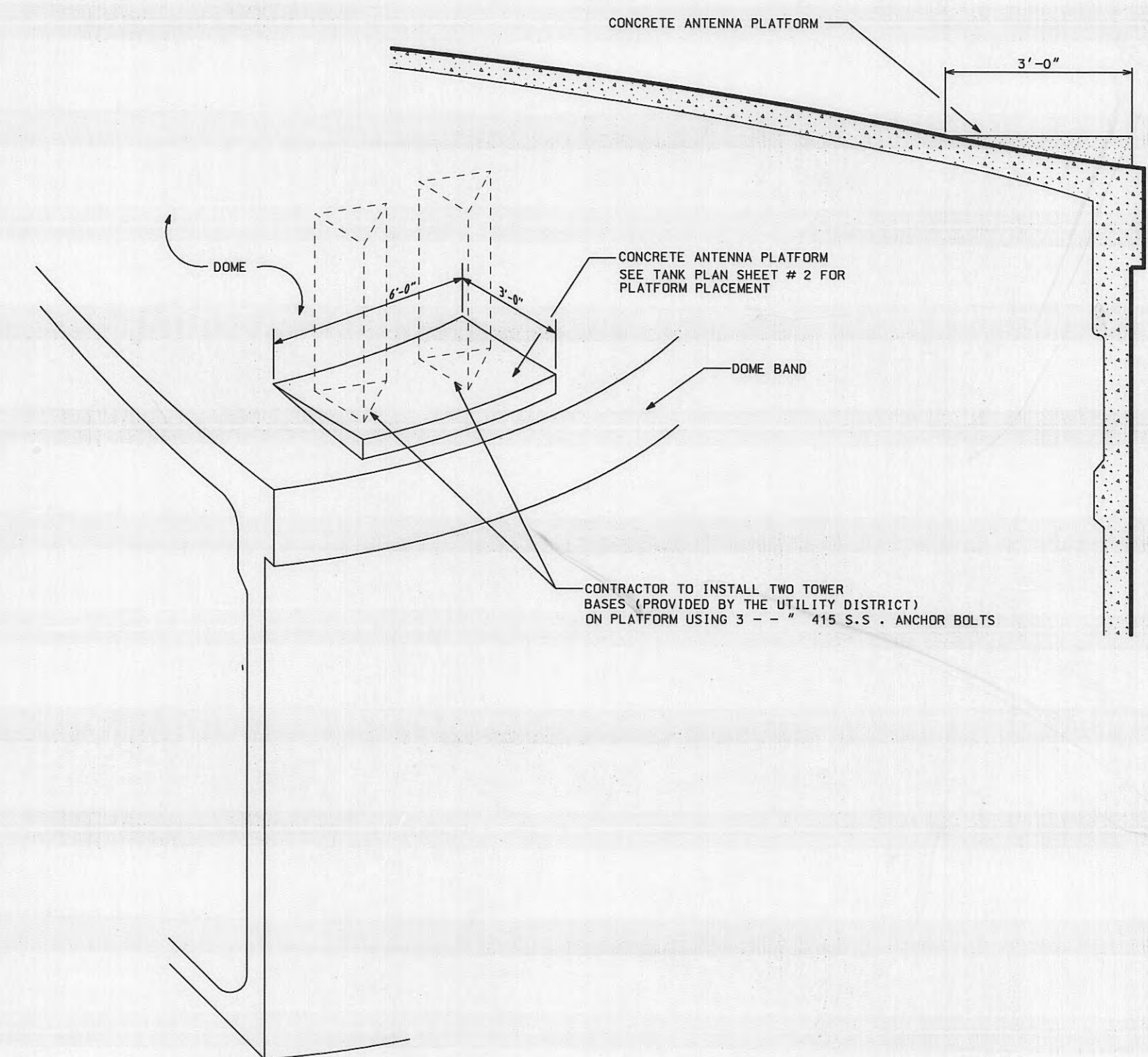
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DETAIL "B"

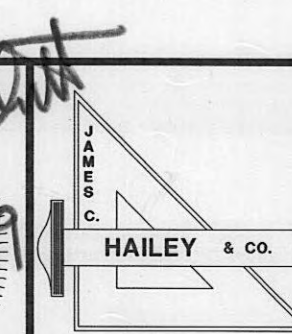
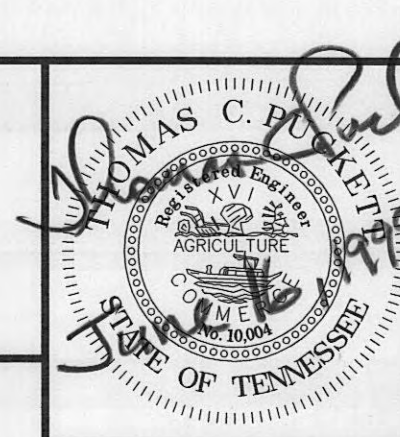


DETAIL "A"



ANTENNA PLATFORM DETAIL

NOT TO SCALE



PLATEAU
UTILITY DISTRICT
Morgan County, Tennessee

CONCRETE
WATER STORAGE TANK
DETAILS

DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
TCP	BCF	TCP	JUNE 1999	AS NOTED	96205

SHEET

5

CAD
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