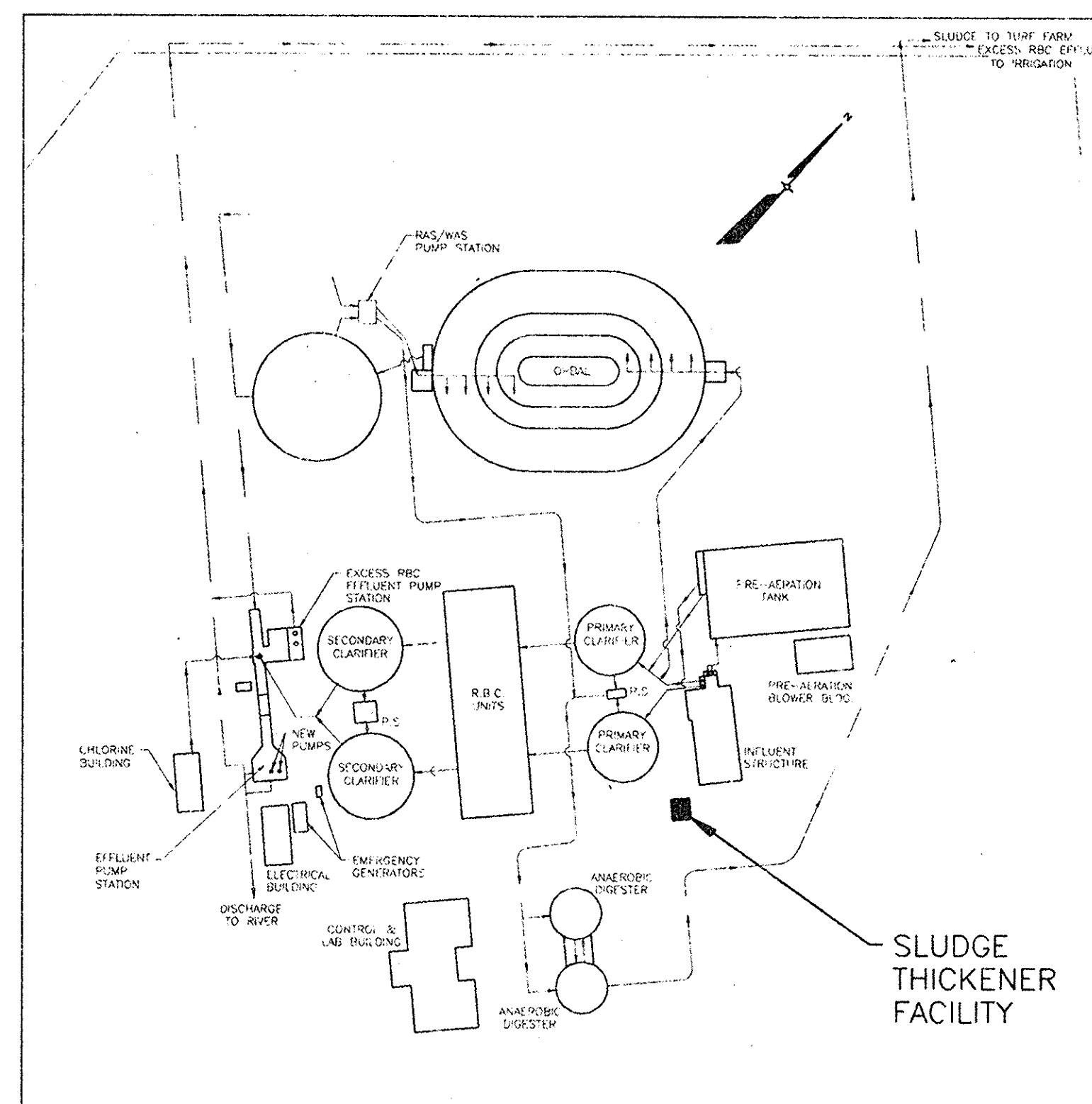


GRAND STRAND WATER & SEWER AUTHORITY SCHWARTZ WASTEWATER TREATMENT FACILITY SLUDGE THICKENER FACILITY

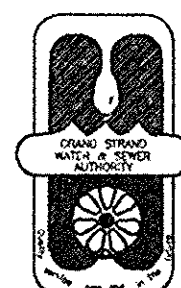
CONWAY, SOUTH CAROLINA
JUNE 1997



DRAWING INDEX

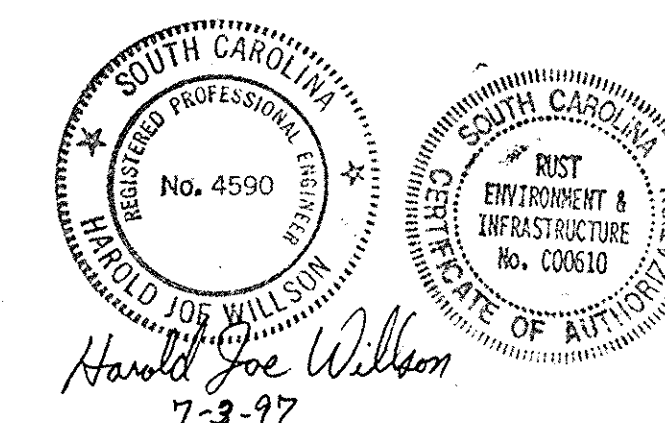
C-1	PROPOSED SLUDGE THICKENER SITE PLAN
C-2	PROPOSED SLUDGE THICKENER GRADING PLAN
C-3	PROPOSED SLUDGE THICKENER DETAILS
M-1	PROPOSED SLUDGE THICKENER BUILDING LAYOUT
AS-1	SLUDGE THICKENER BUILDING PLANS & DETAILS
AS-2	PROPOSED SLUDGE THICKENER BUILDING ELEVATIONS
AS-3	PROPOSED SLUDGE THICKENER GENERAL NOTES & DETAILS
HP-1	PLUMBING AND HVAC ABBREVIATIONS & SYMBOLS
HP-2	SLUDGE THICKENER BUILDING HVAC/PLUMBING PLAN
E-1	ELECTRICAL ABBREVIATIONS AND SYMBOLS
E-2	PROPOSED SLUDGE THICKENER BUILDING ELECTRICAL SITE PLAN
E-3	PROPOSED SLUDGE THICKENER BUILDING ELECTRICAL PLANS
E-4	EXISTING BUILDINGS ELECTRICAL PLANS
E-5	ONE-LINE DIAGRAM, SCHEDULES, RISER DIAGRAM AND DETAILS

PREPARED FOR



P.O. BOX 1537
CONWAY, SOUTH CAROLINA
(803) 650-8033

PREPARED BY

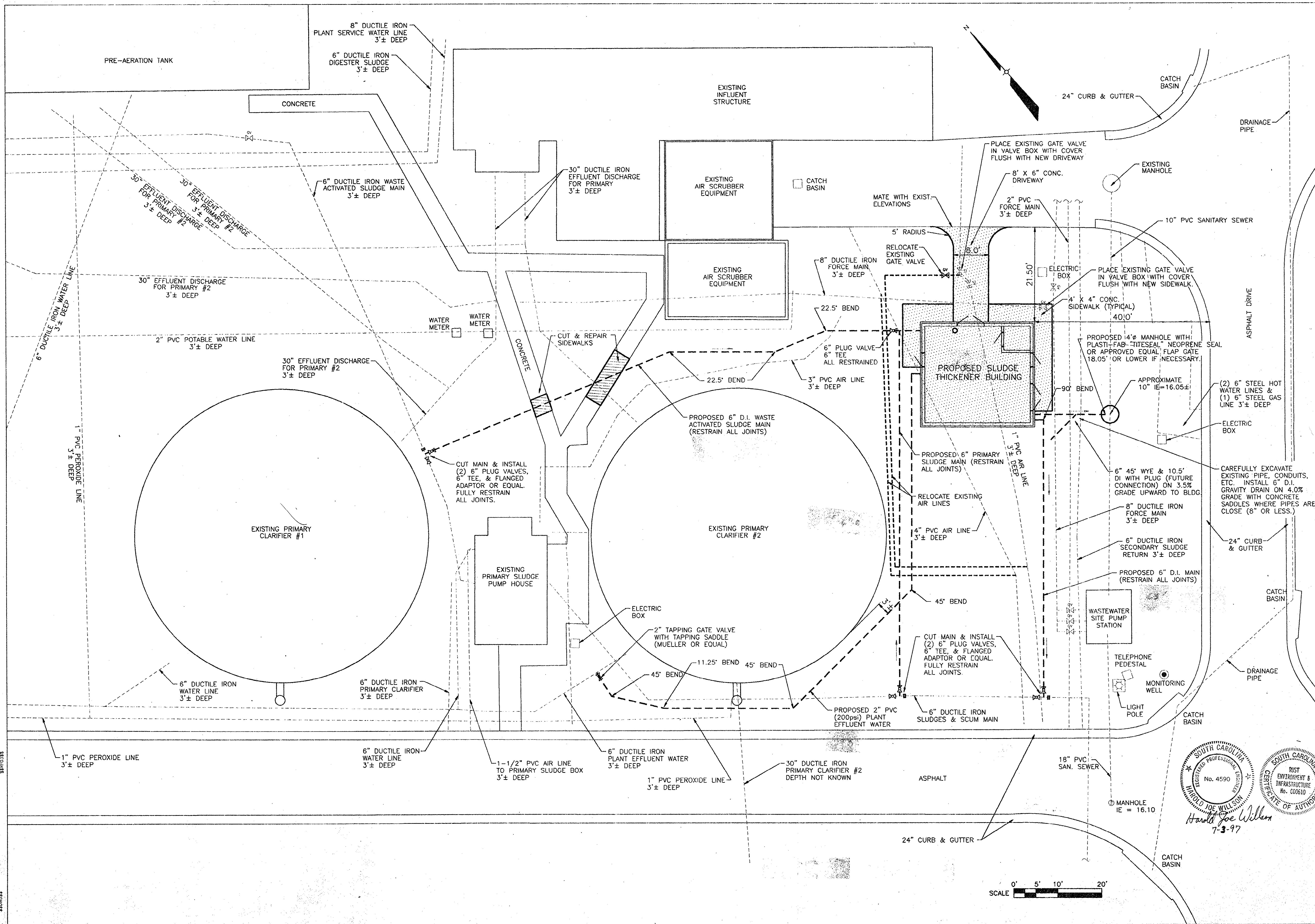


RUST

Rust Environment & Infrastructure Inc.

2694 LAKE PARK DRIVE
CHARLESTON, SOUTH CAROLINA
(803)572-5600

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GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER FACILITY CONWAY, SOUTH CAROLINA		RUST Rust Environment & Infrastructure Inc.		CHARLESTON																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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RUST
Rust Environment & Infrastructure Inc.

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 4590
Harold Joe Wilson
7-3-97

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 00610
Rust Environment & Infrastructure
No. 00610

SCALE 0' 5' 10' 20'

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\$\$\$B71055

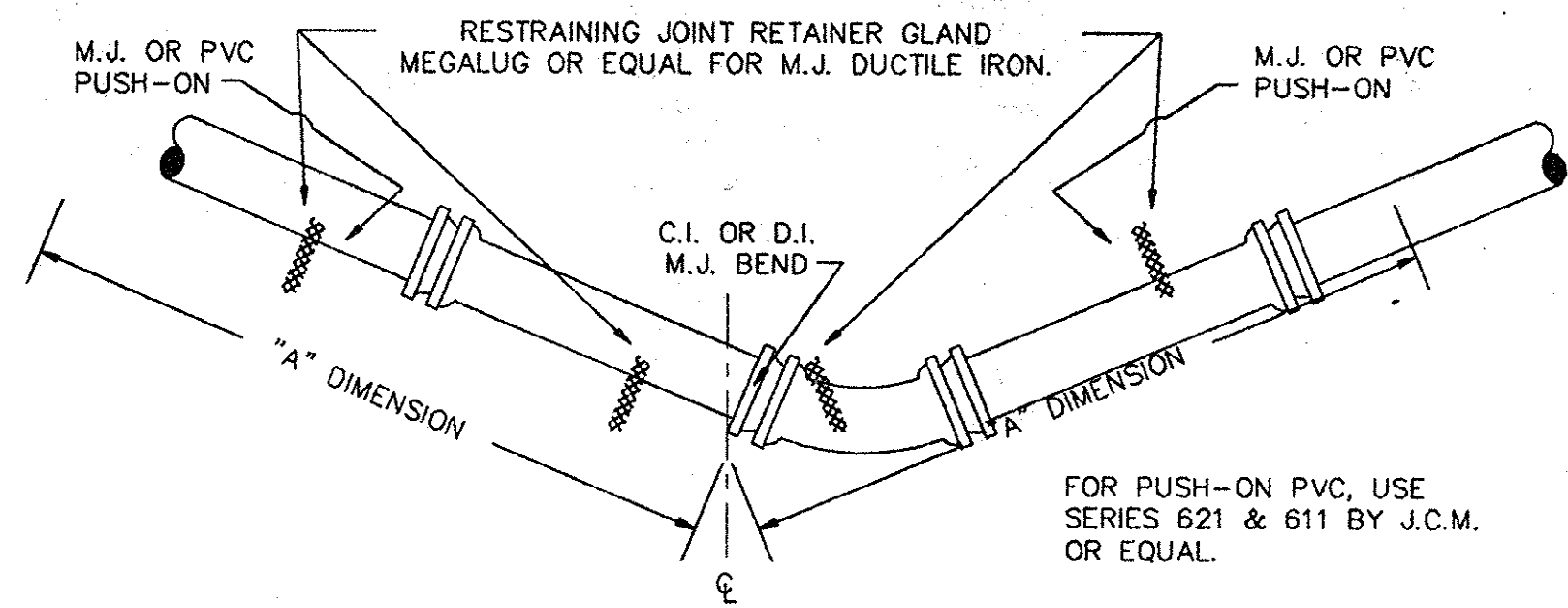
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THRUST RESTRAINT SYSTEM
FOR 4" & LARGER PIPE
PLAN VIEW
N. T. S.

THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE AND PVC PIPE TABLE B-6 *

SOIL TYPE: SAND-SILT *

SOIL PARAMETERS

φ = 30 Degrees

Cs = 0 psf

δ = 90 pcf

Sf = 1.5

* = 1984 DIPRA Publication

A21.50 - LAYING CONDITIONS

	2	3	4	5
f ₀ =	0.50	0.75	0.75	0.75
f _c =	0.00	0.00	0.00	0.00
Kn =	0.40	0.60	0.85	1.00

Values listed here are based on a 90 degree horizontal bend, Class 50 D.I.P. and an internal pressure of 100 psi.

For other pressures, multiply by ratio to 100 psi.

For other horizontal bends, multiply by the following coefficients: 45°-0.414, 22 1/2°-0.199, 11 1/4°-0.098.

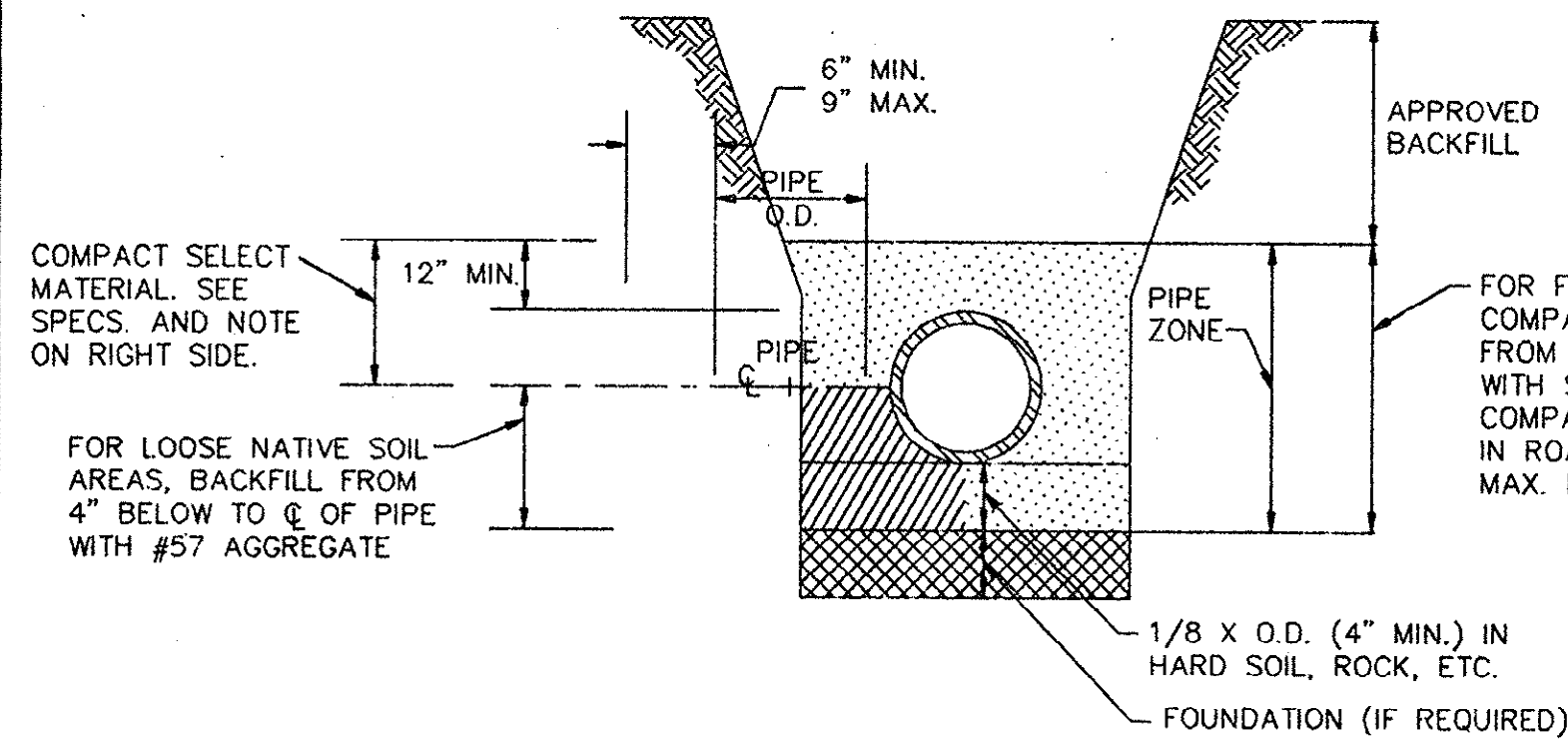
Use alternate method for other type fitting or dead end.

Values in parentheses are for pipe encased in polyethylene and for PVC pipe.

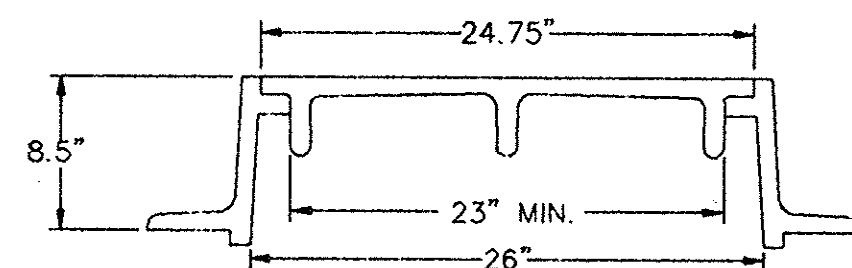
TABLE OF MIN. RESTRAINED LENGTH "A"		A21.50-LAYING CONDITIONS			
		2	3	4	5
SIZE IN.	DEPTH FT.	RESTRAINED LENGTH, FT.	RESTRAINED LENGTH, FT.	RESTRAINED LENGTH, FT.	RESTRAINED LENGTH, FT.
6	2.5	34 (40)	22 (26)	18 (21)	17 (19)
6	3.0	29 (34)	19 (22)	16 (18)	14 (16)
6	4.0	22 (26)	15 (17)	12 (14)	11 (12)
6	6.0	15 (18)	10 (12)	8 (9)	7 (8)
6	8.0	12 (13)	8 (9)	6 (7)	6 (6)
6	10.0	9 (11)	6 (7)	5 (6)	5 (5)
12	2.5	61 (70)	40 (46)	33 (37)	29 (33)
12	3.0	52 (60)	34 (40)	28 (32)	25 (28)
12	4.0	40 (47)	27 (31)	22 (25)	20 (22)
12	6.0	28 (33)	18 (21)	15 (17)	14 (15)
12	8.0	21 (25)	14 (16)	12 (13)	10 (12)
12	10.0	17 (20)	11 (13)	9 (11)	8 (9)
16	2.5	76 (88)	50 (58)	41 (46)	37 (41)
16	3.0	66 (76)	43 (50)	35 (40)	32 (36)
16	4.0	52 (60)	34 (40)	28 (31)	25 (28)
16	6.0	36 (42)	24 (28)	19 (22)	18 (20)
16	8.0	28 (32)	18 (21)	15 (17)	14 (15)
16	10.0	23 (26)	15 (17)	12 (14)	11 (12)

Use Condition 4 with sand-silt as pipe zone material

Use Condition 5 with aggregate to pipe centerline

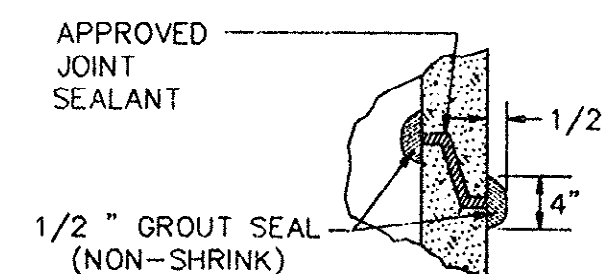


TYPICAL BEDDING DETAIL
N. T. S.



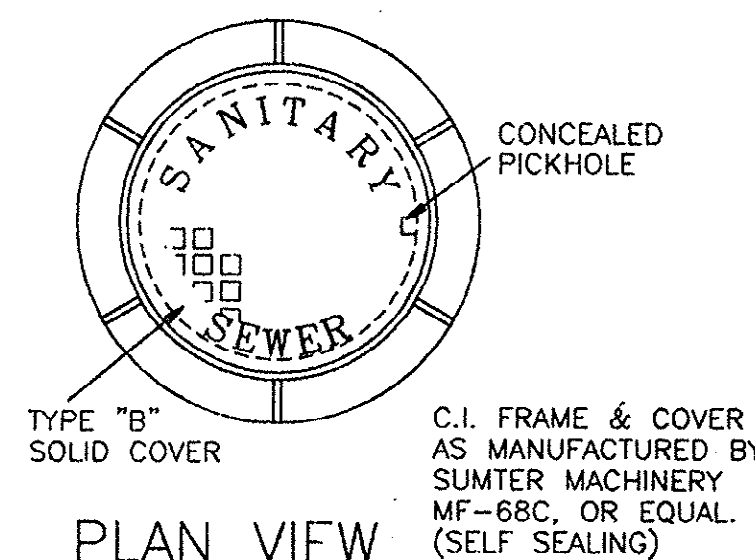
SECTION VIEW
MANHOLE FRAME
N. T. S.

MANHOLE DETAIL
N.T.S.

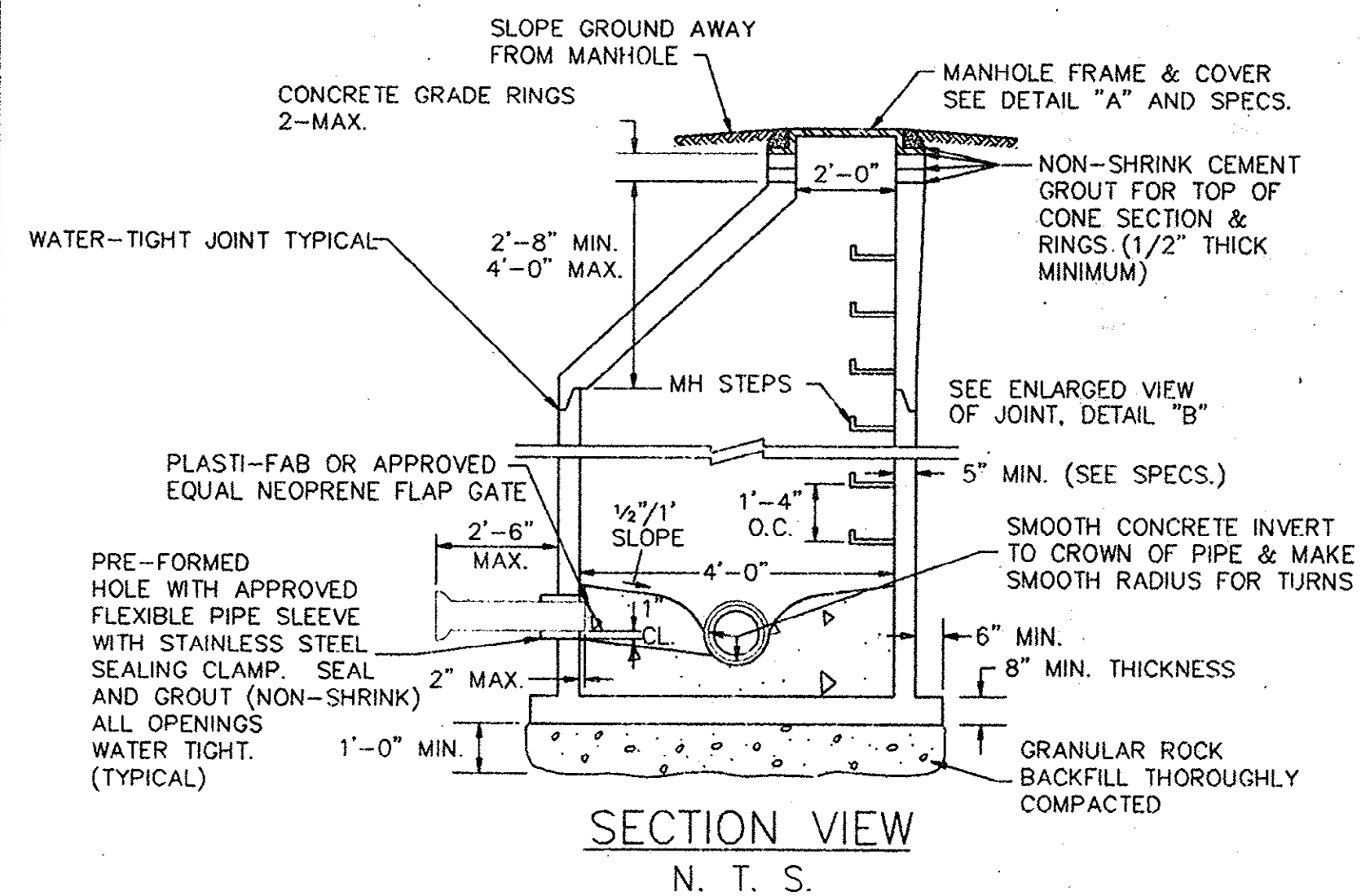


ENLARGED
VIEW OF JOINT
N. T. S.

SEE SPECS. FOR REQUIREMENTS ON "O" RING RUBBER AND ROPE MASTIC BUTYL RUBBER SEALANT FOR M.H. JOINTS.

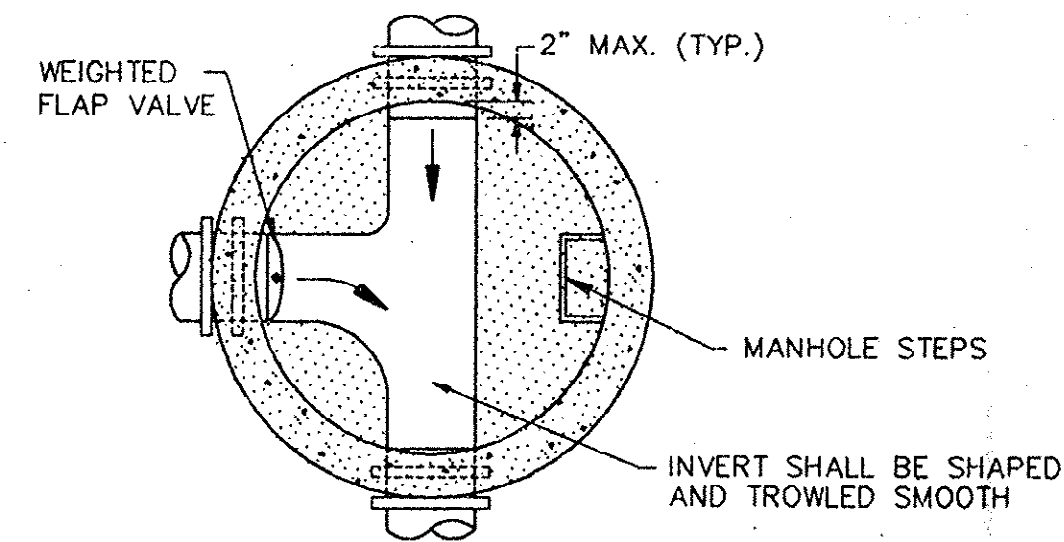


PLAN VIEW
MANHOLE COVER

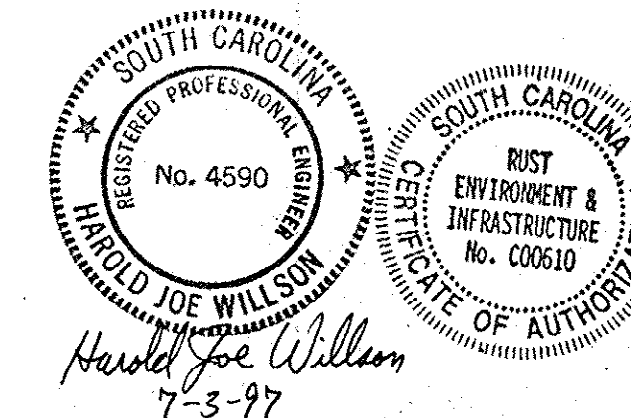


SECTION VIEW
N. T. S.

USE FLEXIBLE MANHOLE SLEEVE FOR ALL 18 inch AND SMALLER PIPES (SEE SPECS.). FOR LARGER PIPES, USE FLEXIBLE MANHOLE ENTRANCE JOINTS OR SLEEVES.

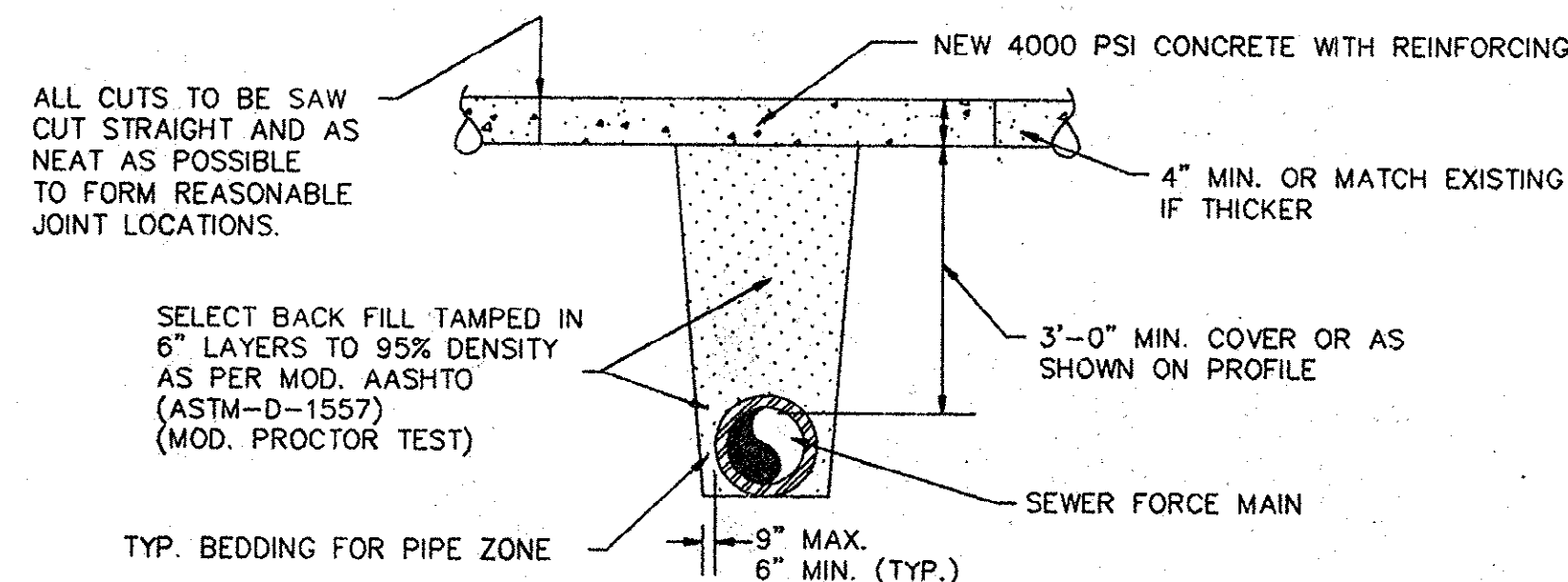


PLAN VIEW
N. T. S.



NOTES

- NUMBER OF PIPES AND DIAMETERS, INVERTS AND OTHER PARAMETERS VARY. SEE PLAN AND PROFILE SHEET FOR ADDITIONAL INFORMATION.
- INSTALL ACCORDING TO MANUFACTURES RECOMMENDATIONS. COMPACT BACKFILL AROUND MANHOLE TO 90-95% OF MODIFIED PROCTOR DENSITY FOR THE FILL.
- RIM ELEVATION SHALL BE SET AS NOTED ON PROFILE OR SHALL BE SET AT OR ABOVE EXISTING GRADE, AS APPROVED BY THE ENGINEER.
- MANHOLE INVERT SHALL BE 3000 PSI CONCRETE. CONC. BRICK MAY BE USED TO FORM CHANNEL BENCH ONLY. PLASTERED WITH A MIN. OF 1 inch OF CEMENT MORTAR 1:2 MIX (1 PART CEMENT TO 2 PARTS SAND.)
- STEPS SHALL BE NO. 4 RE-BAR COVERED WITH POLYPROPYLENE OR APPROVED EQUAL. DRIVEN INTO PRE-FORMED HOLES.



SIDEWALK CUT AND
REPAIR DETAIL
N.T.S.

CHARLESTON	100-00-0000	DES HW	100-00-0000	CHK HW	100-00-0000	APP HW	100-00-0000	NO
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RUST
Rust Environment & Infrastructure Inc.

GRAND STRAND WATER & SEWER AUTHORITY
SLUDGE THICKENER FACILITY
CONWAY, SOUTH CAROLINA

PROPOSED SLUDGE THICKENER
DETAILS

DATE	JUNE 1997
PROJECT NO	200243.10100
FILENAME	20024307.DWG
SHEET NO	4 of 15
DRAWING NO	

C-3

07-013-004/15-



\$\$\$REV122
\$\$\$REV133
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\$\$\$REV136
\$\$\$REV137

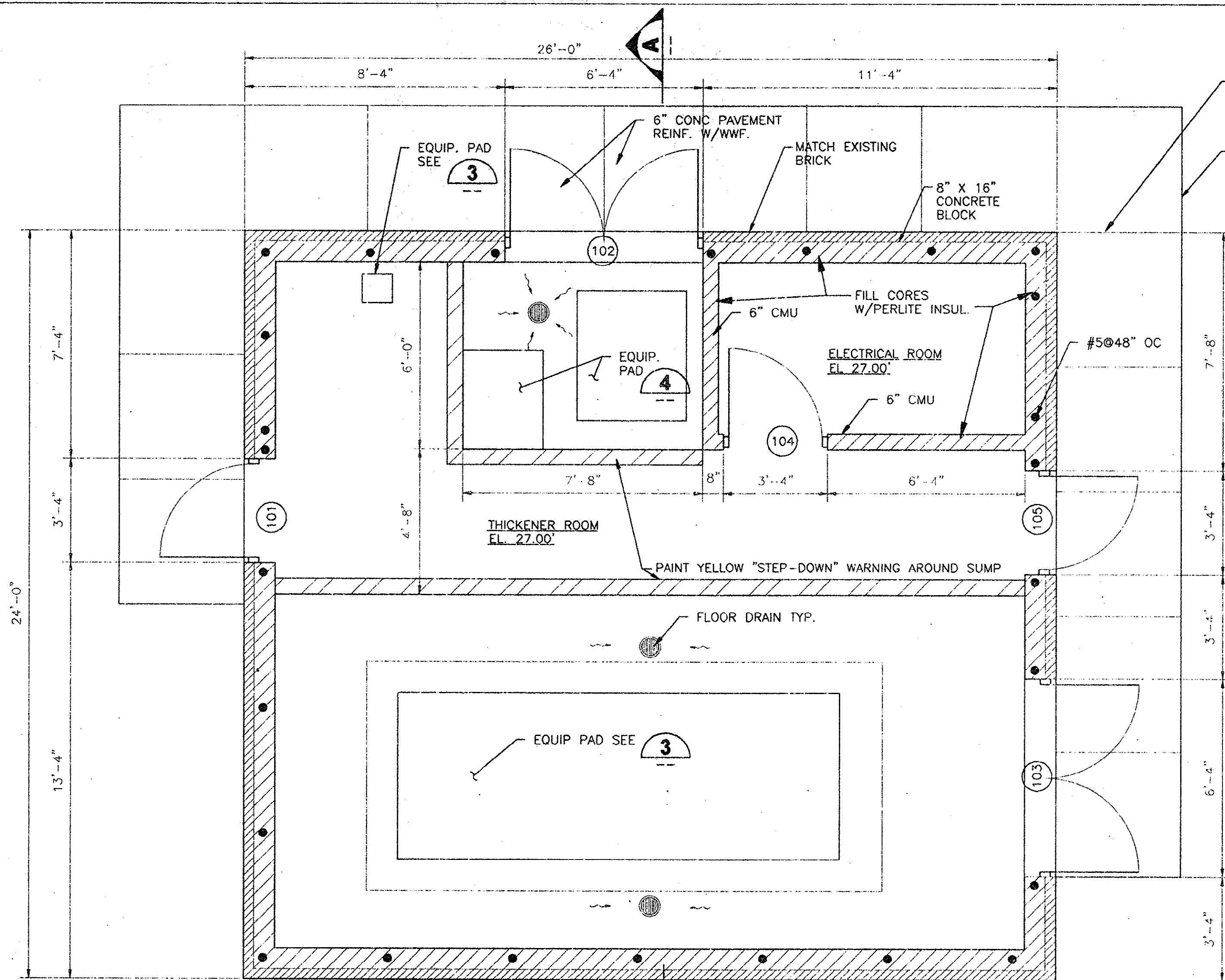
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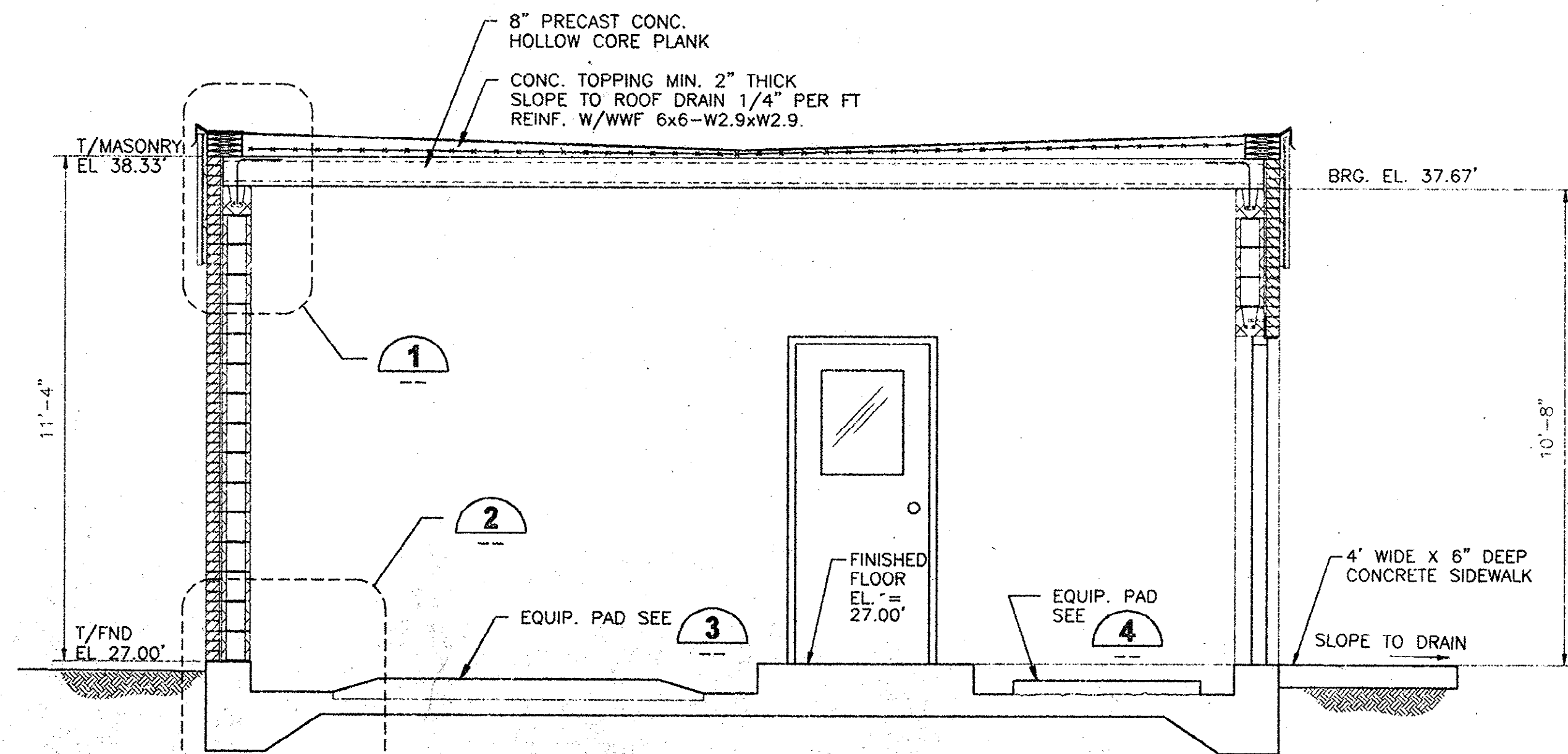


NOTE:

--- INDICATES DIRECTION TO
SLOPE FLOOR TO DRAIN
1/8" PER 1' MIN.

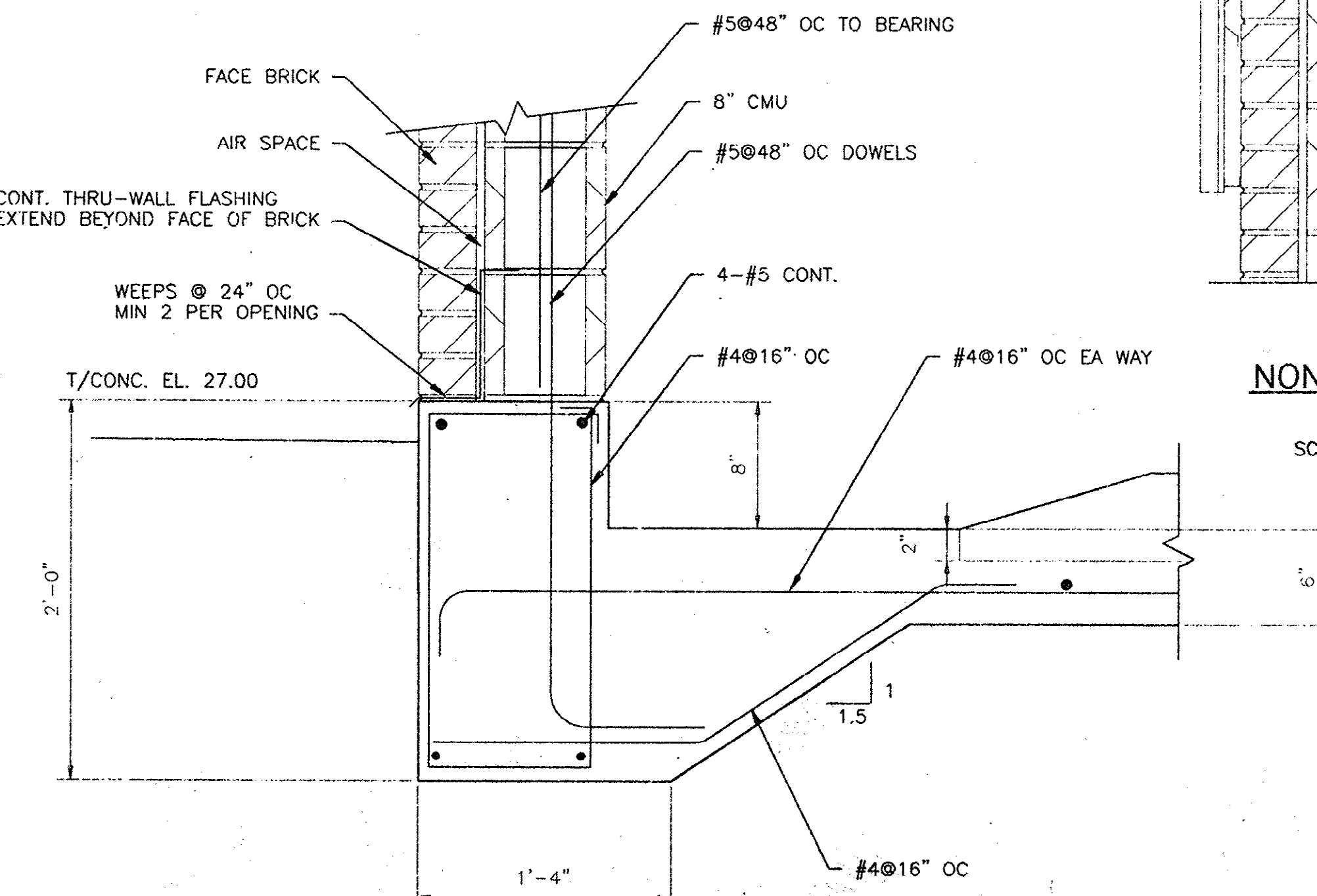
PLAN VIEW

SCALE 0' 4' 8'



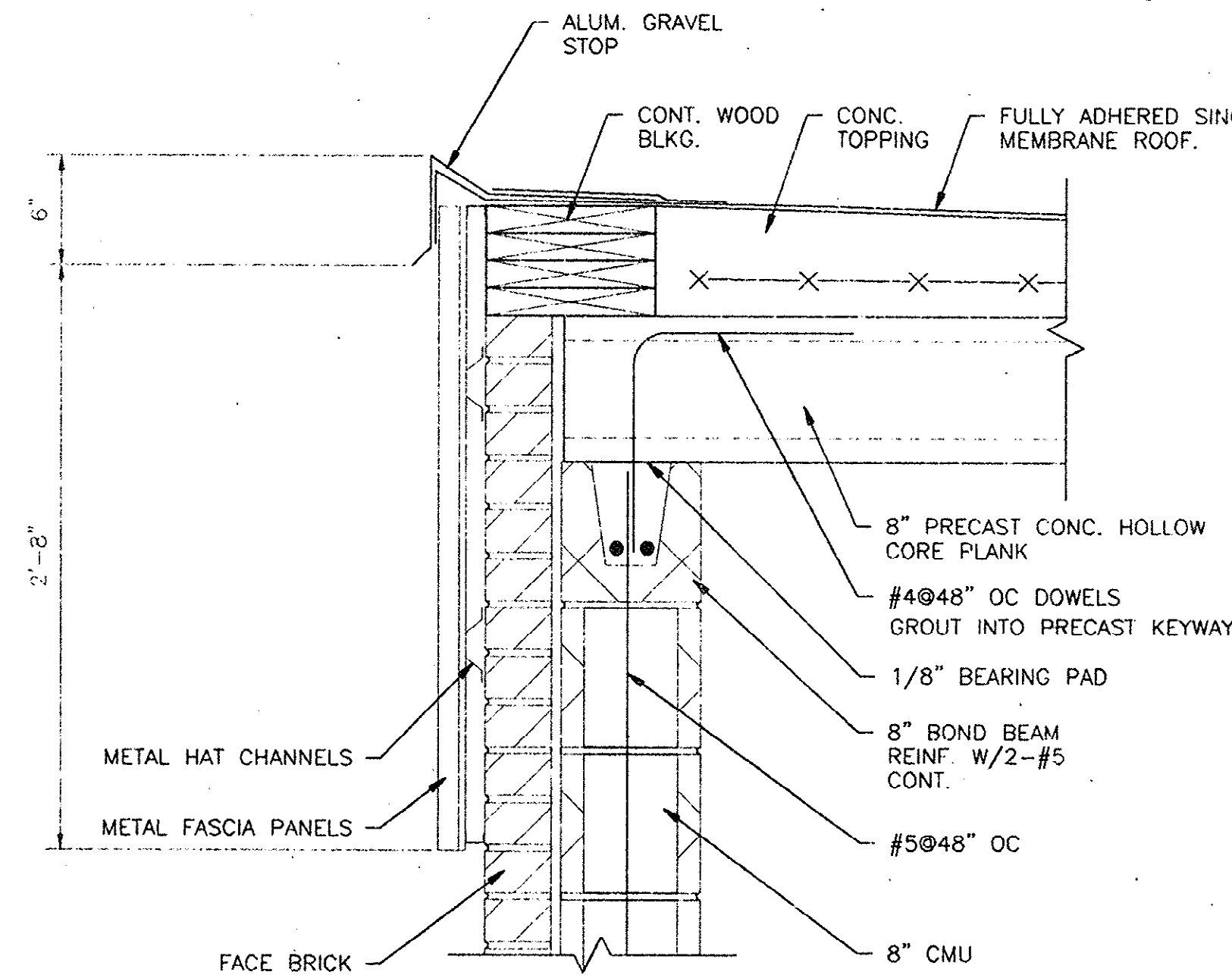
SECTION A-A

SCALE 0' 4' 8'



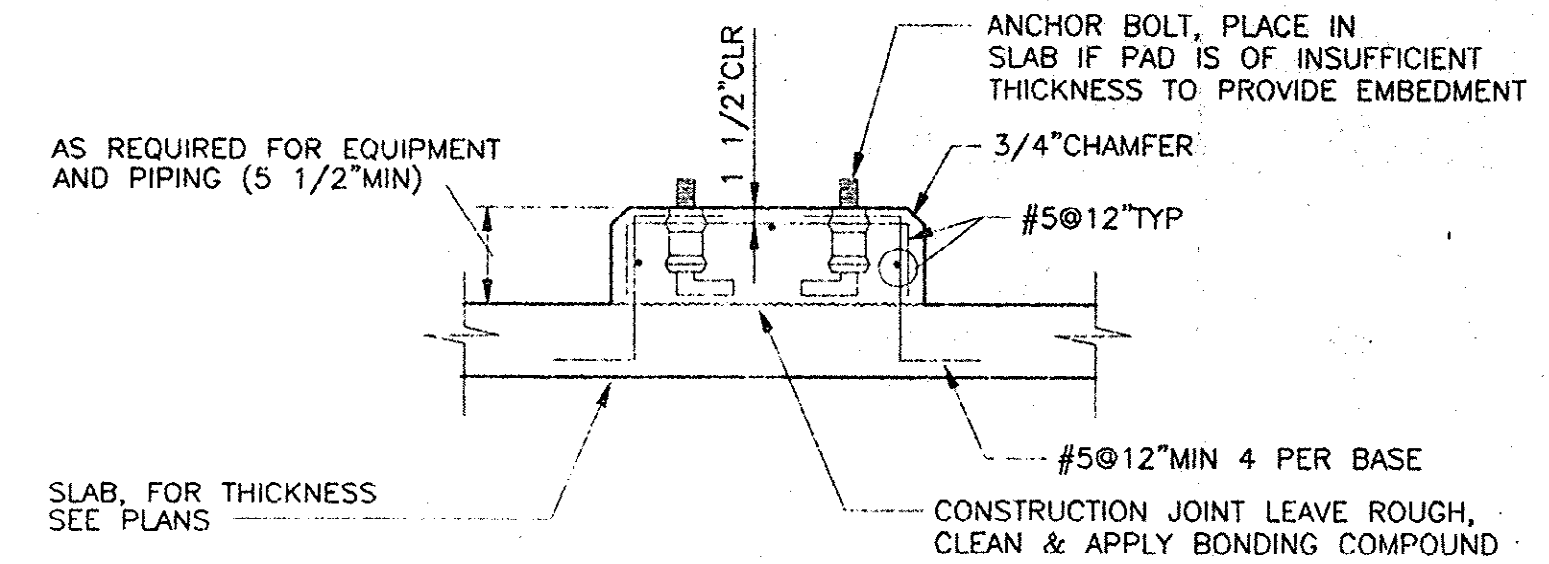
DETAIL 2

SCALE 0' 1' 2'



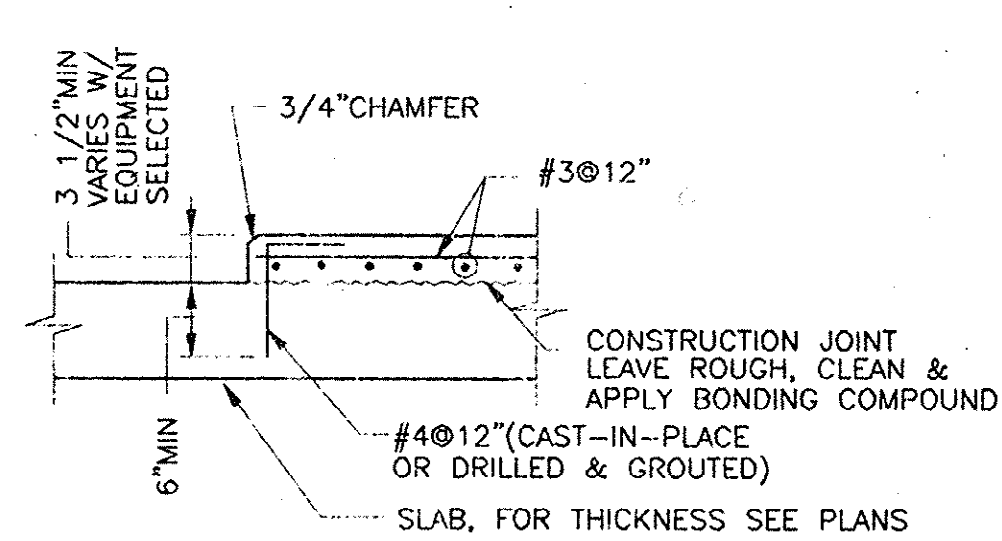
BEARING DETAIL 1

SCALE 0' 1' 2'



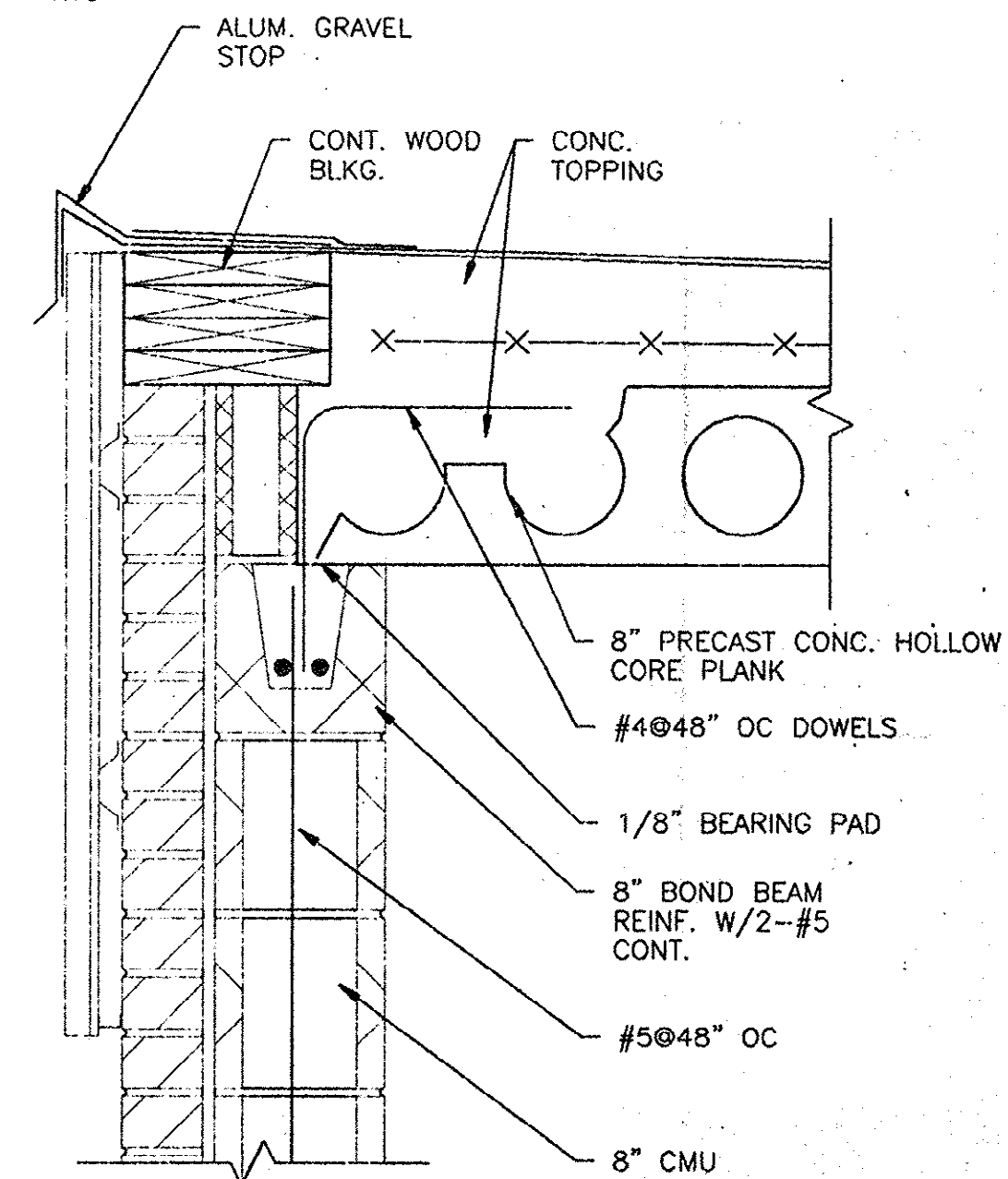
EQUIPMENT PAD DETAIL 3

NTS



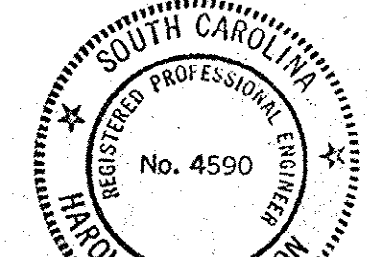
EQUIPMENT PAD DETAIL 4

NTS



NON-BEARING DETAIL 1

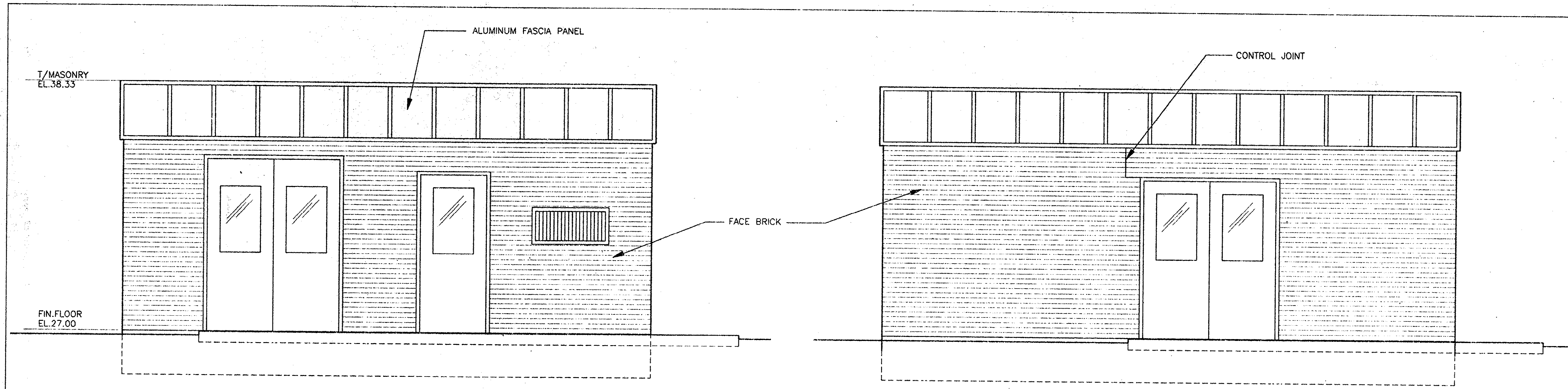
SCALE 0' 1' 2'



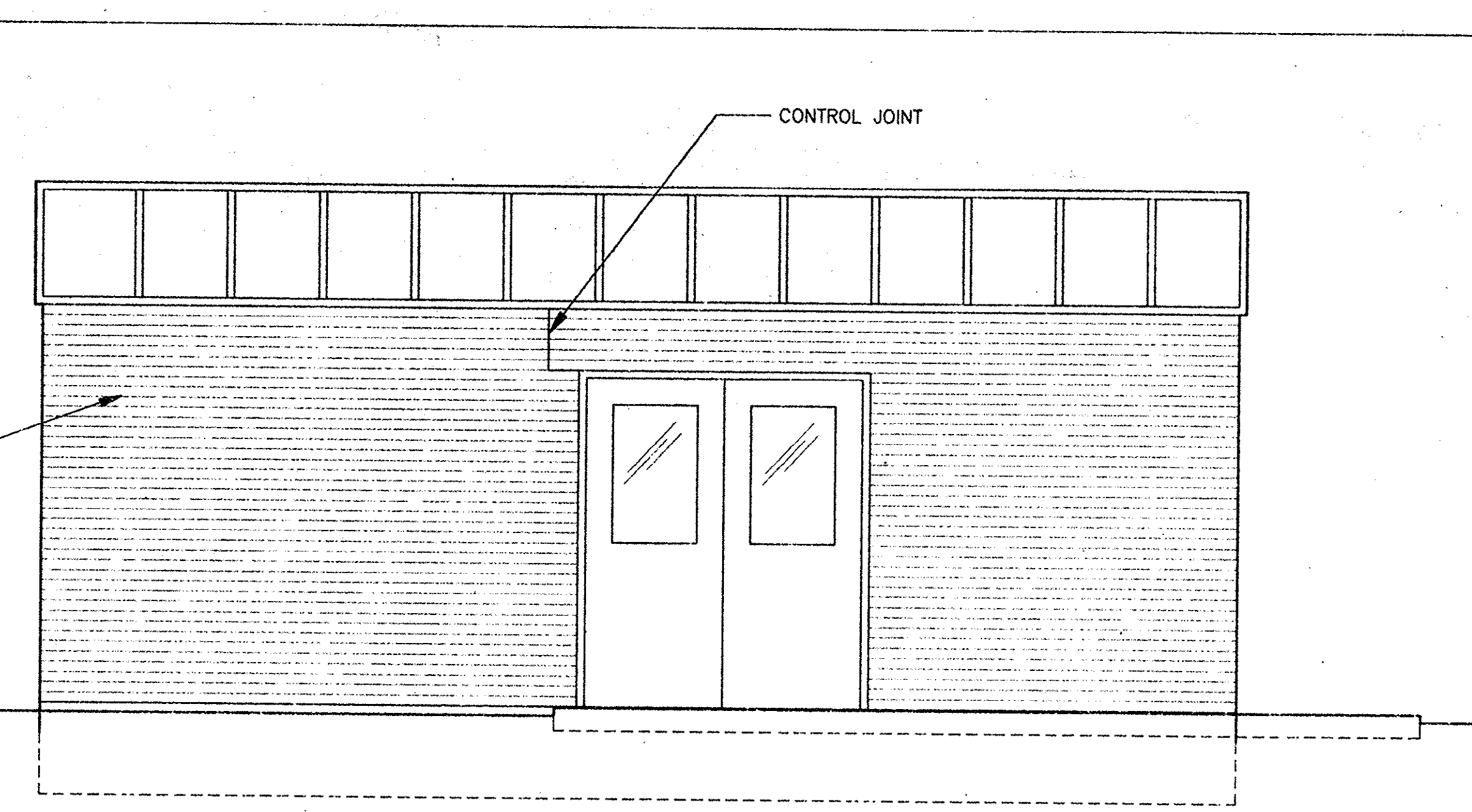
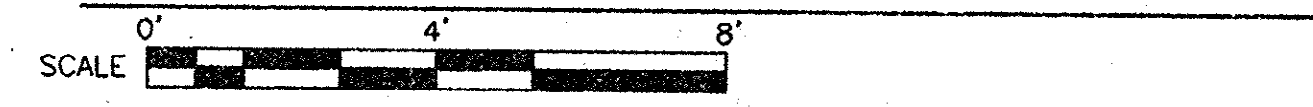
Harold Joe Willson
7-3-97

REVISIONS		DRN	CHK	DATE
0	NO			
Rust Environment & Infrastructure Inc.				
GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER BUILDING CONWAY, SOUTH CAROLINA				
PLANS & DETAILS				
DATE: JUNE 1997				
PROJECT NO: 200243.10000				
FILENAME: 243AS1.DWG				
SHEET NO: 6 of 15				
DRAWING NO:				
AS-1				

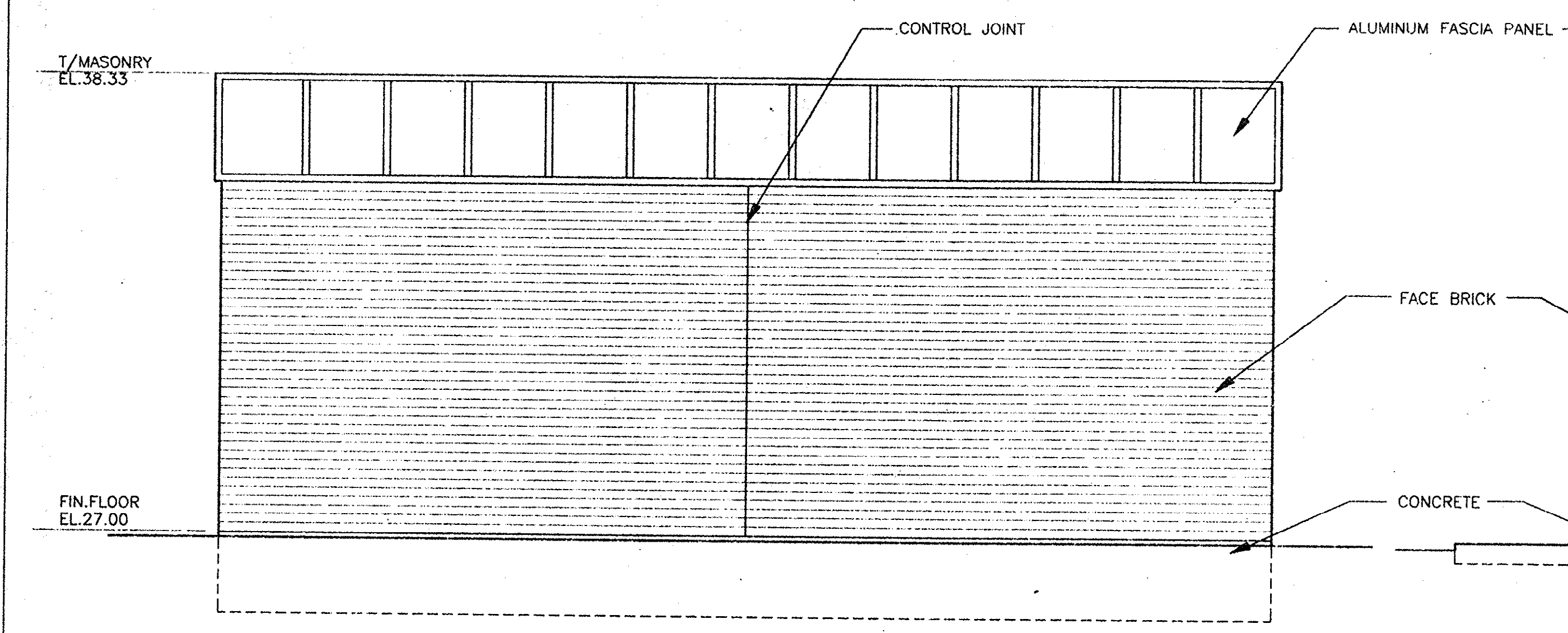
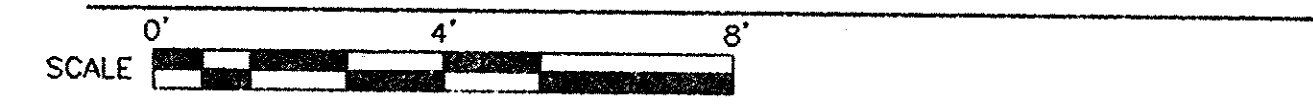
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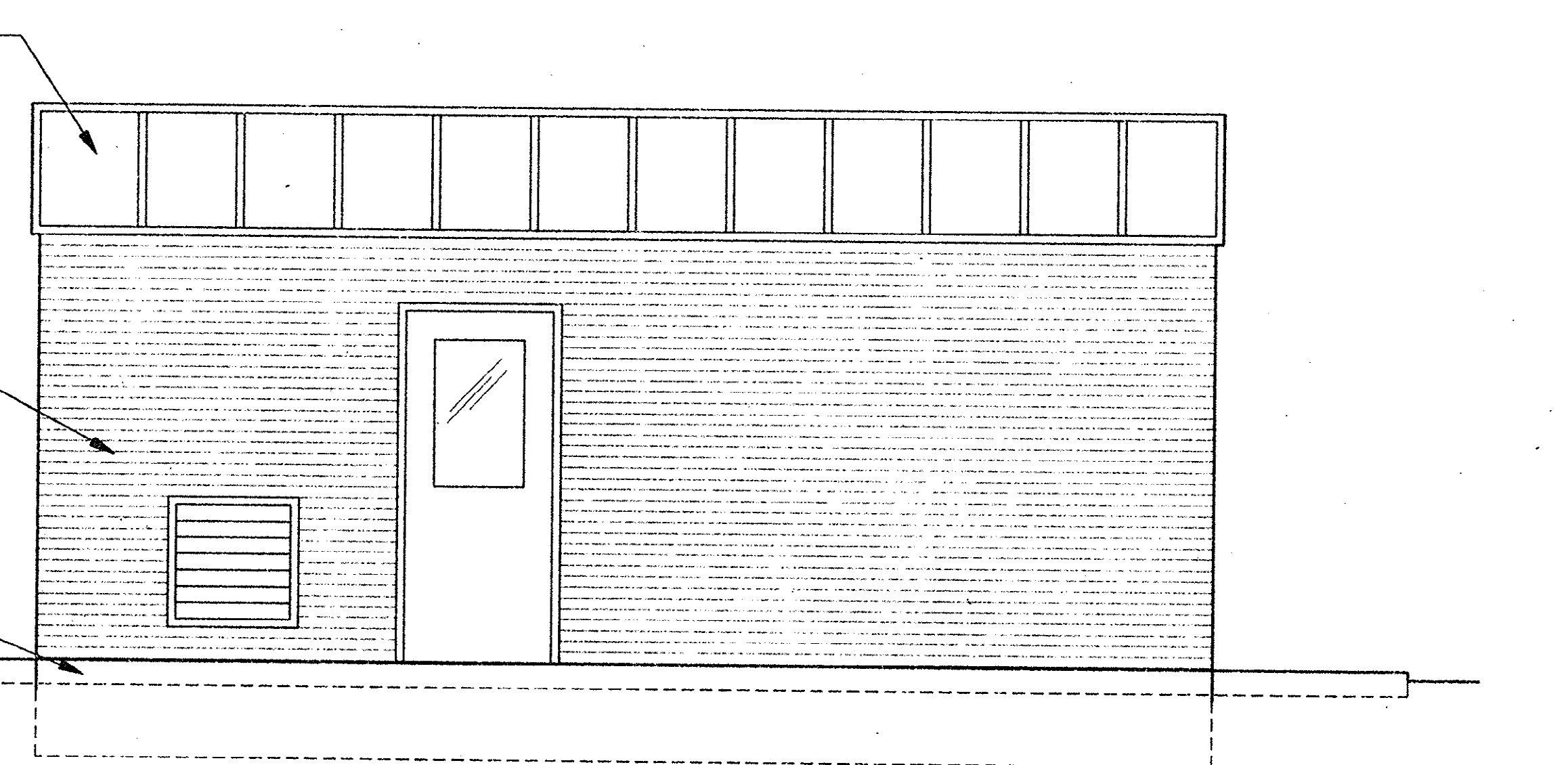
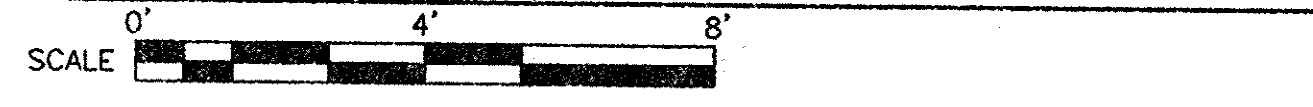
EAST ELEVATION



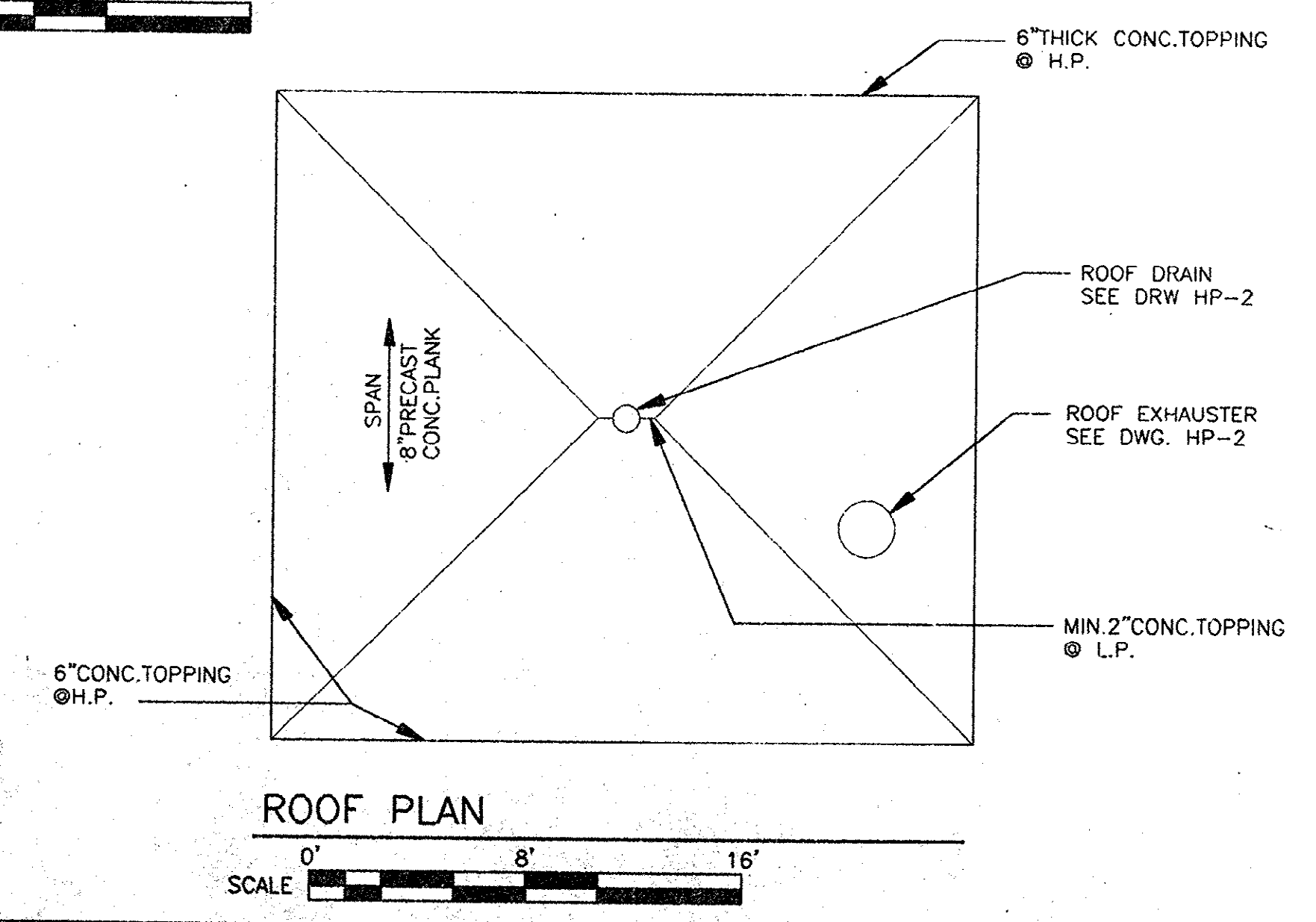
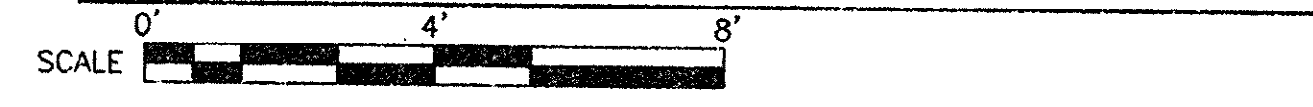
NORTH ELEVATION



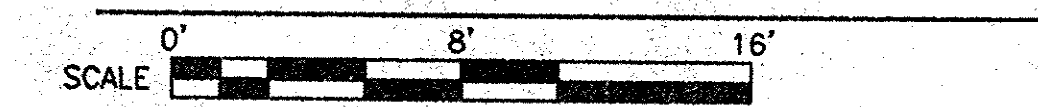
SOUTH ELEVATION



WEST ELEVATION



ROOF PLAN



CHARLESTON						
DRN	CLF	04-29-1997				
DES	HUW	00-00-0000				
CHK	HUW	00-00-0000				
APP	HUW	00-00-0000				
Copyright, 	Q	Revision Description	AAA	AAA	00-00-0000	
REST Environment & Infrastructure, Inc. 10/97	NO	REVISIONS	DRN	CHK	DATE	

RUST
Rust Environment & Infrastructure Inc.

GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER FACILITY CONWAY, SOUTH CAROLINA		PROPOSED SLUDGE THICKENER BUILDING ELEVATIONS
DATE	JUNE 1997	
PROJECT NO	200243.10000	
FILENAME	AS2.DWG	
SHEET NO	7 of 15	
DRAWING NO	AS-2	

A circular professional engineer seal for the State of South Carolina. The outer ring contains the text "SOUTH CAROLINA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. In the center, the text "No. 4590" is printed. Below the number, the name "HAROLD JOE WILLSON" is written in a curved path following the inner edge of the seal. Below the seal, the name "Harold Joe Willson" is handwritten in cursive, and the date "7-3-97" is handwritten in the center.



07-013-007/15

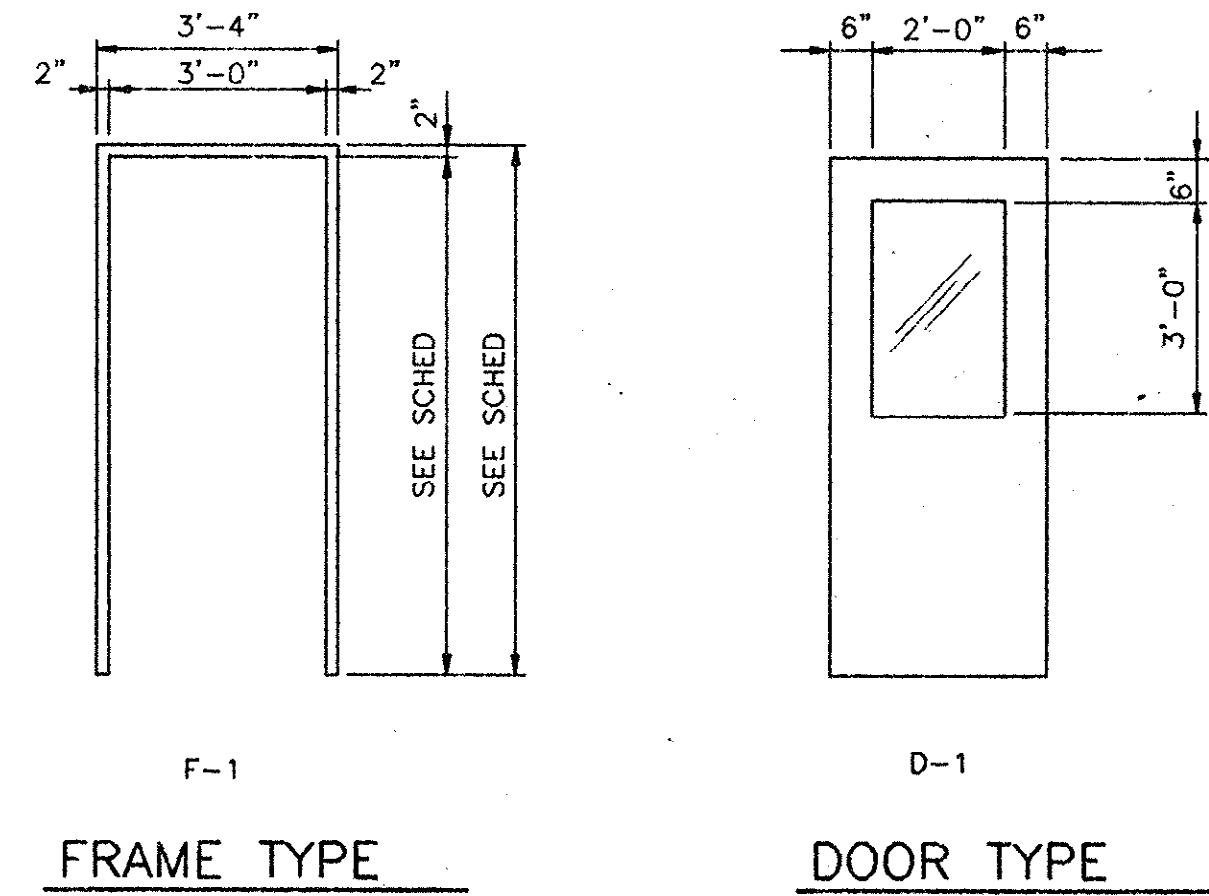
GENERAL NOTES

1. FINISH SCHEDULE:

- A. FLOOR AND BASE: _____ CONCRETE SEALER
B. WALLS: _____ CONCRETE MASONRY -- COATING
C. CEILING: _____ PRECAST CONCRETE PLANK -- COATING
D. MISC. STRUCTURAL STEEL: _____ STEEL -- COATING
E. SEE SECTION 9805 FOR ADDITIONAL REQUIREMENTS.

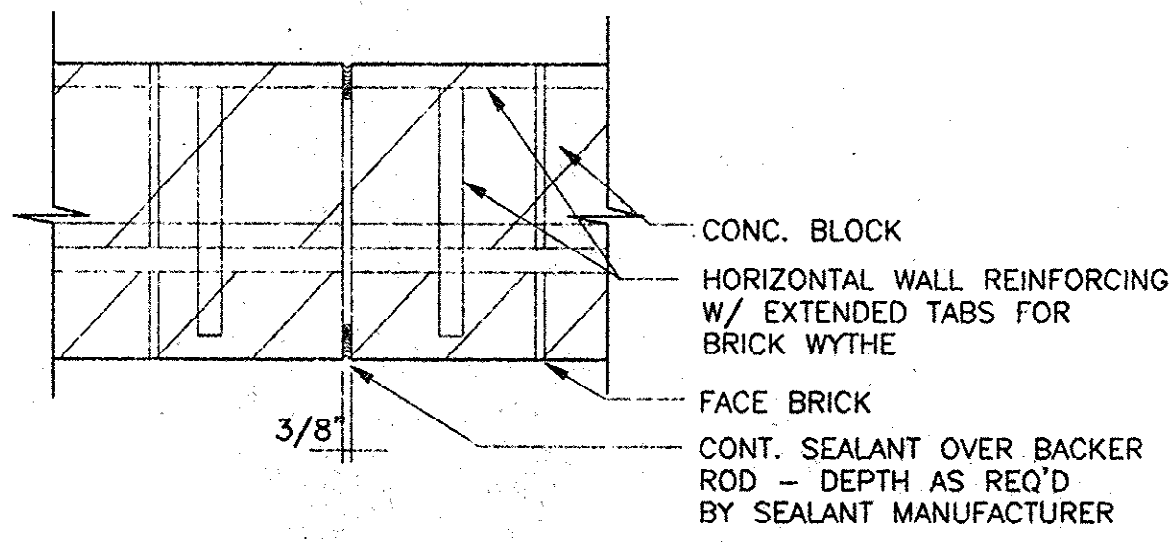
2. DOOR SCHEDULE:

- A. DOOR 101 & 105
- 3'-0"x7'-2"x1 3/4" FIBERGLASS
 - FRAME TYPE F-1 2"x5-3/4"(2"HEAD)FIBERGLASS FRAME
 - DOOR STYLE D-1 W/1/4"TEMPERED PLATE GLASS (TINTED)
 - HARDWARE GROUP 1
- B. DOOR 102 & 103
- 2'-3'-0"x7'-2"x1 3/4" FIBERGLASS (DOOR 102)
 - 2'-3'-0"x7'-10"x1 3/4" FIBERGLASS (DOOR 103)
 - FRAME TYPE F-1 2"x5-3/4"(2"HEAD)FIBERGLASS FRAME
 - DOOR STYLE D-1 W/1/4"TEMPERED PLATE GLASS (TINTED)
 - HARDWARE GROUP 2
- C. DOOR 104
- 3'-0"x7'-2"x1 3/4" FIBERGLASS
 - FRAME TYPE F-1 2"x5-3/4"(2"HEAD)FIBERGLASS FRAME
 - DOOR STYLE D-1 W/1"INSULATING TEMPERED GLASS (TINTED)
 - HARDWARE GROUP 3



FRAME TYPE

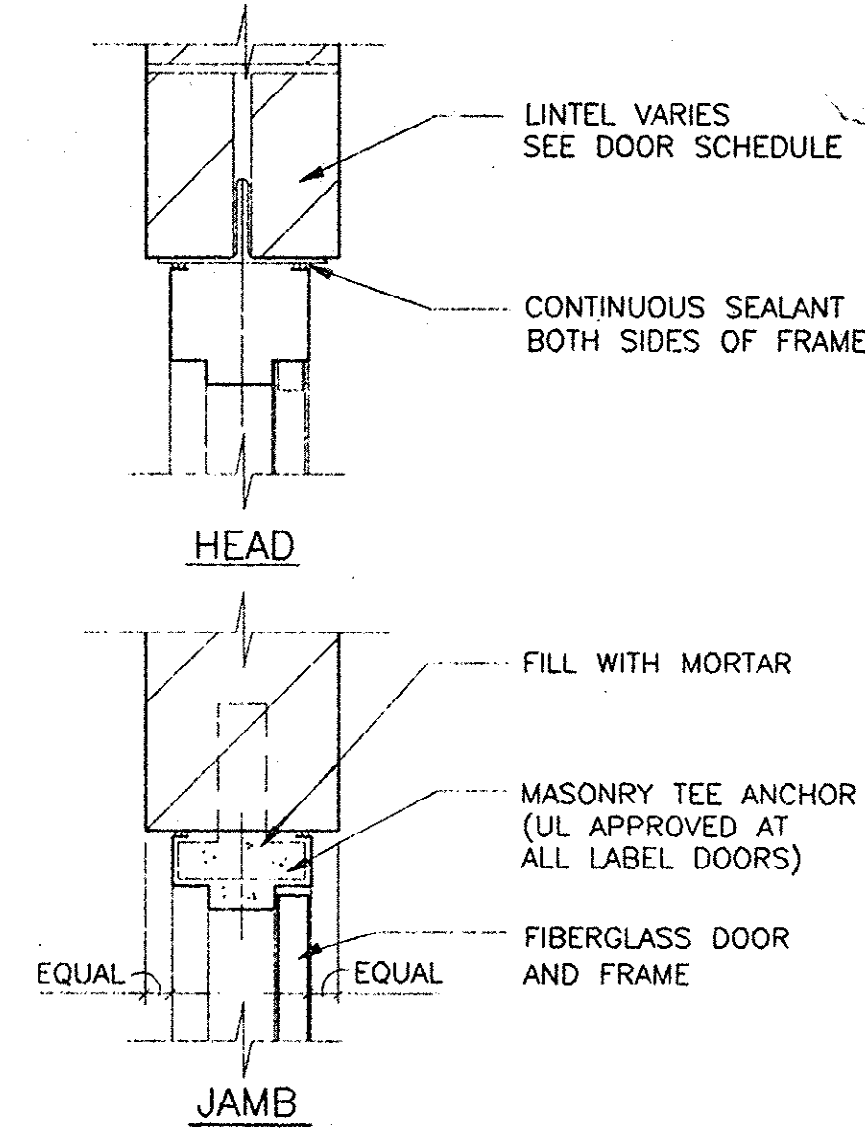
DOOR TYPE



CONTROL JOINT DETAIL

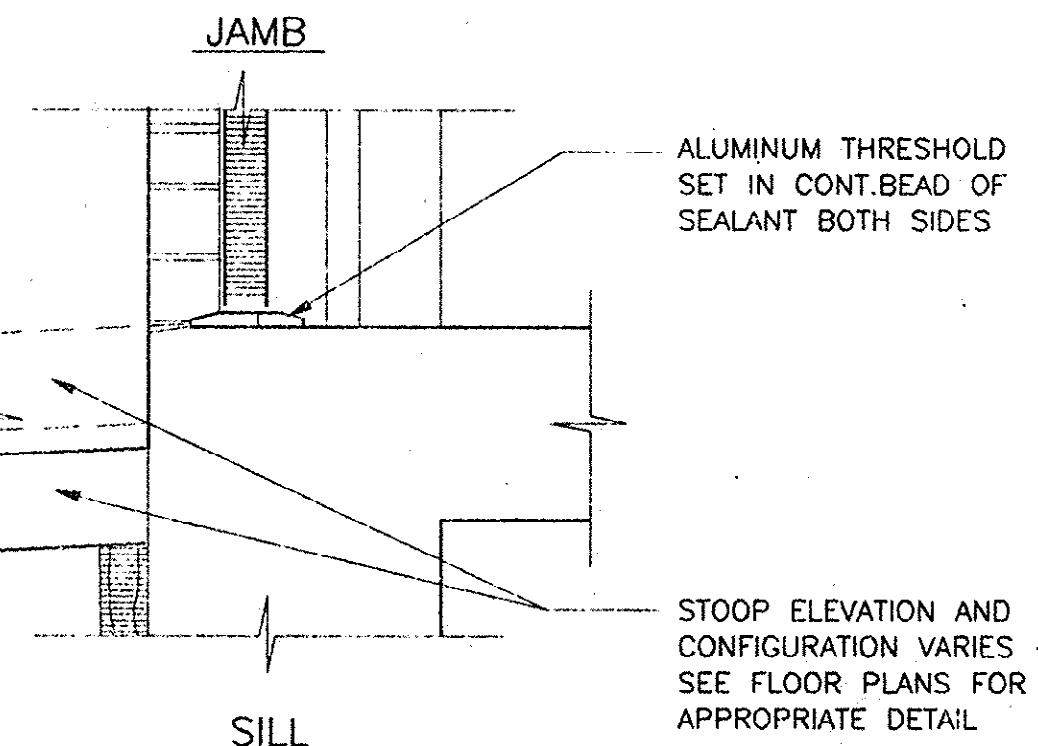
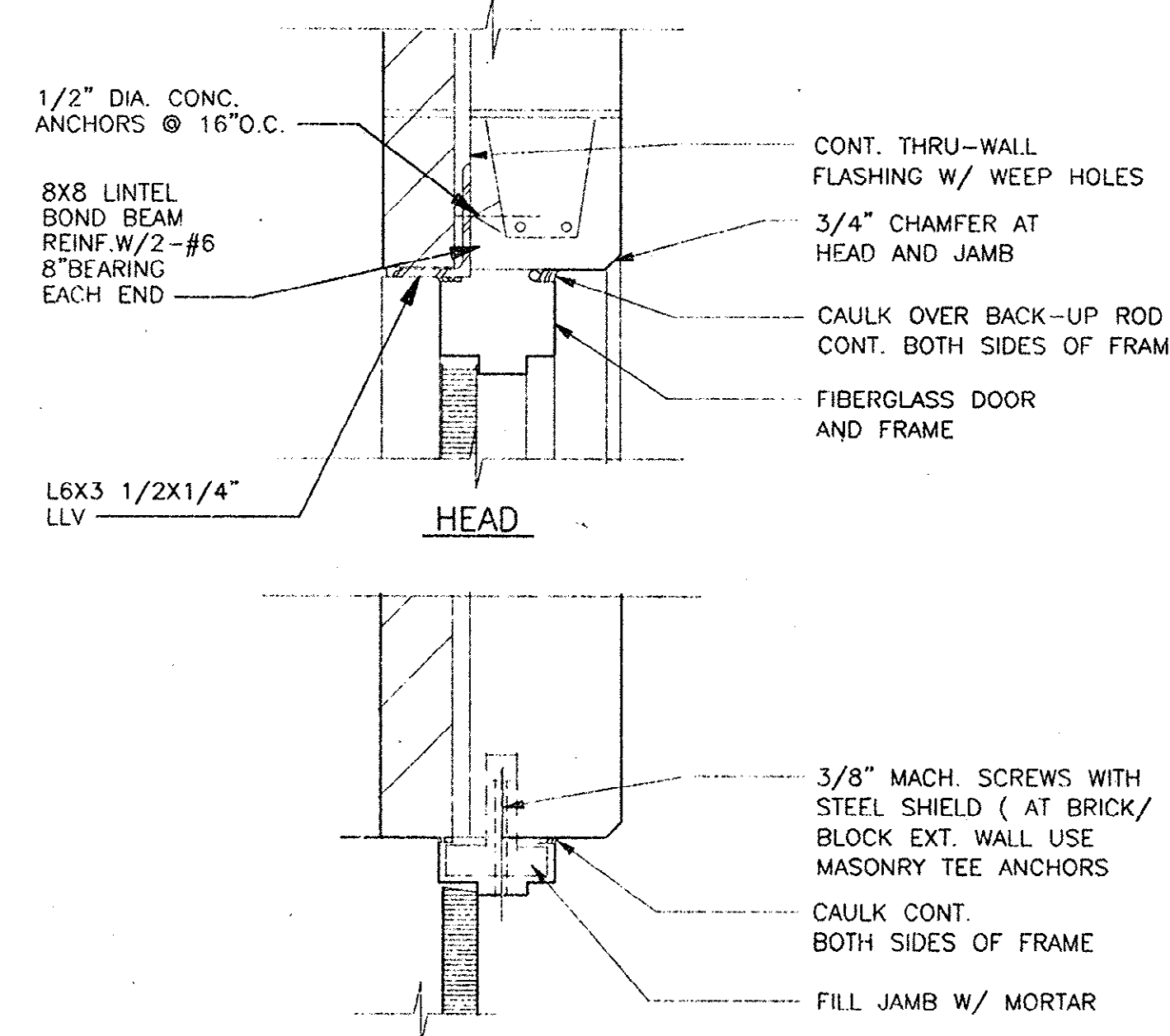
07-101

1 1/2"=1'-0"



INTERIOR DOOR DETAIL 07-102

1 1/2"=1'-0"



EXT. DOOR AT CAVITY WALL 07-103

1 1/2"=1'-0"

GENERAL STRUCTURAL NOTES

GENERAL

1. THE GENERAL STRUCTURAL NOTES AND STANDARD STRUCTURAL DETAILS APPLY TO THE ENTIRE PROJECT UNLESS SPECIFICALLY STATED OTHERWISE

DESIGN CRITERIA

1. DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE THE STANDARD BUILDING CODE, 1994 EDITION.
2. SUPERIMPOSED DESIGN LOADS:
- A. WIND LOAD
1. BASIC WIND SPEED: 100 MPH
2. EXPOSURE CLASSIFICATION: C
3. IMPORTANCE FACTOR: 1.00
- B. SEISMIC ACCELERATION: 0.15 g
- C. LIVE LOAD 20 PSF
- D. MECHANICAL EQUIPMENT: VERIFY WITH EQUIPMENT SUPPLIER. (SEE EQUIPMENT SCHEDULES)

FOUNDATIONS

1. NET SOIL BEARING CAPACITIES ASSUMED: 2000 PSF
2. PLACE FOOTINGS ON NATURAL UNDISTURBED EARTH OR STRUCTURAL FILL.

CONCRETE

1. REINFORCING STEEL:
- A. DEFORMED BARS ASTM A615--GRADE 60
- B. WELDED WIRE FABRIC (WWF) ASTM A185
2. UNLESS OTHERWISE SHOWN PROVIDE COVER FOR REINFORCEMENT AS FOLLOWS:
- A. CAST AGAINST
1. EARTH 3 INCHES
- B. EXPOSED TO EARTH, WEATHER OR WATER:
1. SLABS AND JOISTS:
- A. #5 BARS AND SMALLER 1 1/2 INCHES
- B. #6 THRU #11 BARS 2 INCHES
3. PLACE DOWELS BEFORE PLACING CONCRETE.
4. DO NOT WELD OR FIELD BEND REINFORCING BARS, EXCEPT AS APPROVED BY ENGINEER.
5. CONCRETE: MINIMUM 28-DAY STRENGTH F'c=4000 PSI
- MINIMUM CEMENT CONTENT: 6 BAGS/CU YD.
- AIR CONTENT: 6% ±1%
- MAXIMUM SLUMP: 4 INCHES
6. UNLESS OTHERWISE NOTED, CONSTRUCTION JOINTS SHOWN ARE OPTIONAL. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY ENGINEER.
7. CONSTRUCTION JOINTS SHALL HAVE KEYS OR ROUGHENED SURFACES. WHERE ROUGHENED SURFACE IS USED, THE SURFACE SHALL HAVE AN AMPLITUDE OF 1/4" MIN.
8. PITCH ALL FLOORS TO FLOOR DRAINS AND GUTTERS A MINIMUM OF 1/8"/FT. OR AS SHOWN ON THE DRAWINGS. MINIMUM THICKNESS OF SLABS AND DEPTH OF BEAMS SHALL BE AS DIMENSIONED ON THE DRAWINGS. PITCH THE BOTTOM OF THE SLAB OR BEAM TO MATCH THE TOP SLOPE OF THE SLAB OR BEAM TO MAINTAIN THE THICKNESS OR DEPTH NOTED. AS AN ALTERNATE, BOTTOM OF THE SLAB OR BEAM MAY BE POURED LEVEL PROVIDED THAT THE MINIMUM THICKNESS OR DEPTH IS MAINTAINED.
9. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
10. EQUIPMENT PAD AND CURB LOCATIONS, DIMENSIONS AND HEIGHTS TO BE COORDINATED BY CONTRACTOR. VERIFY WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

MASONRY

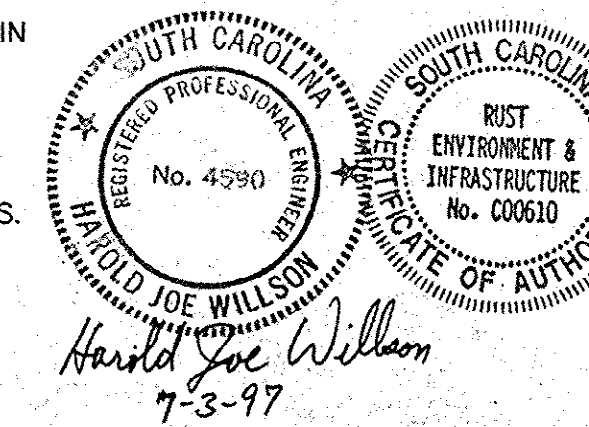
1. MASONRY OPENINGS LESS THAN 4'-0" IN WIDTH THAT DO NOT HAVE A LINTEL SCHEDULED SHALL HAVE A BOND BEAM WITH 2-#5 BARS
2. PROVIDE A MINIMUM OF 8" BEARING AT EACH END FOR BOND BEAM LINTELS
3. PROVIDE A CONTINUOUS BOND BEAM AROUND THE TOP OF BUILDINGS, REINFORCED WITH 2-#5 BARS.
4. PROVIDE HORIZONTAL MASONRY REINFORCEMENT IN WALLS AT 16" O.C.
5. FILL JAMB CORES OF OPENINGS OVER 3'-0" WIDE WITH MASONRY GROUT FROM BOTTOM OF LINTEL TO BOTTOM OF WALL. REINFORCE CORES WHERE NOTED.
6. BRACE MASONRY WALLS UNTIL ROOF OR FLOOR SYSTEM IS IN PLACE.

METALS

1. STEEL:
- A. STRUCTURAL STEEL ASTM A36
- B. MISCELLANEOUS STEEL ASTM A36
2. ALUMINUM:
- A. SHAPES AND PLATES ALLOY 6061-T6 OR 6063-T6
3. WELD STRUCTURAL STEEL WITH E70 ELECTRODES IN ACCORDANCE WITH A.W.S. REQUIREMENTS.
4. PROTECT ALUMINUM SURFACES IN CONTACT WITH OTHER MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS.

MISCELLANEOUS

1. FOR ADDITIONAL OPENINGS, ANCHORS AND EMBEDDED ITEMS SEE ARCHITECTURAL, PROCESS, PLUMBING, HVAC & ELECTRICAL DRAWINGS.
2. VERIFY PERTINENT EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR FABRICATION.



CHARLESTON				Revision Description				NO		DRN CHK		DATE	
DRN	CLF	DES	HJW	04-29-1997	00-00-0000	00-00-0000	00-00-0000	0	0	AAA	AAA	00-00-0000	
APP	HJW	CHK	HJW	00-00-0000	00-00-0000	00-00-0000	00-00-0000						
Copyright © Rust Environment & Infrastructure, Inc.													
Rust Environment & Infrastructure Inc.													
PROPOSED SLUDGE THICKENER													
GENERAL NOTES & DETAILS													
GRAND STRAND WATER & SEWER AUTHORITY													
SLUDGE THICKENER FACILITY													
CONWAY, SOUTH CAROLINA													
DATE													
JUNE 1997													
PROJECT NO													
200243.10000													
FILENAME													
AS3.DWG													
SHEET NO													
8 of 15													
DRAWING NO													
AS-3													

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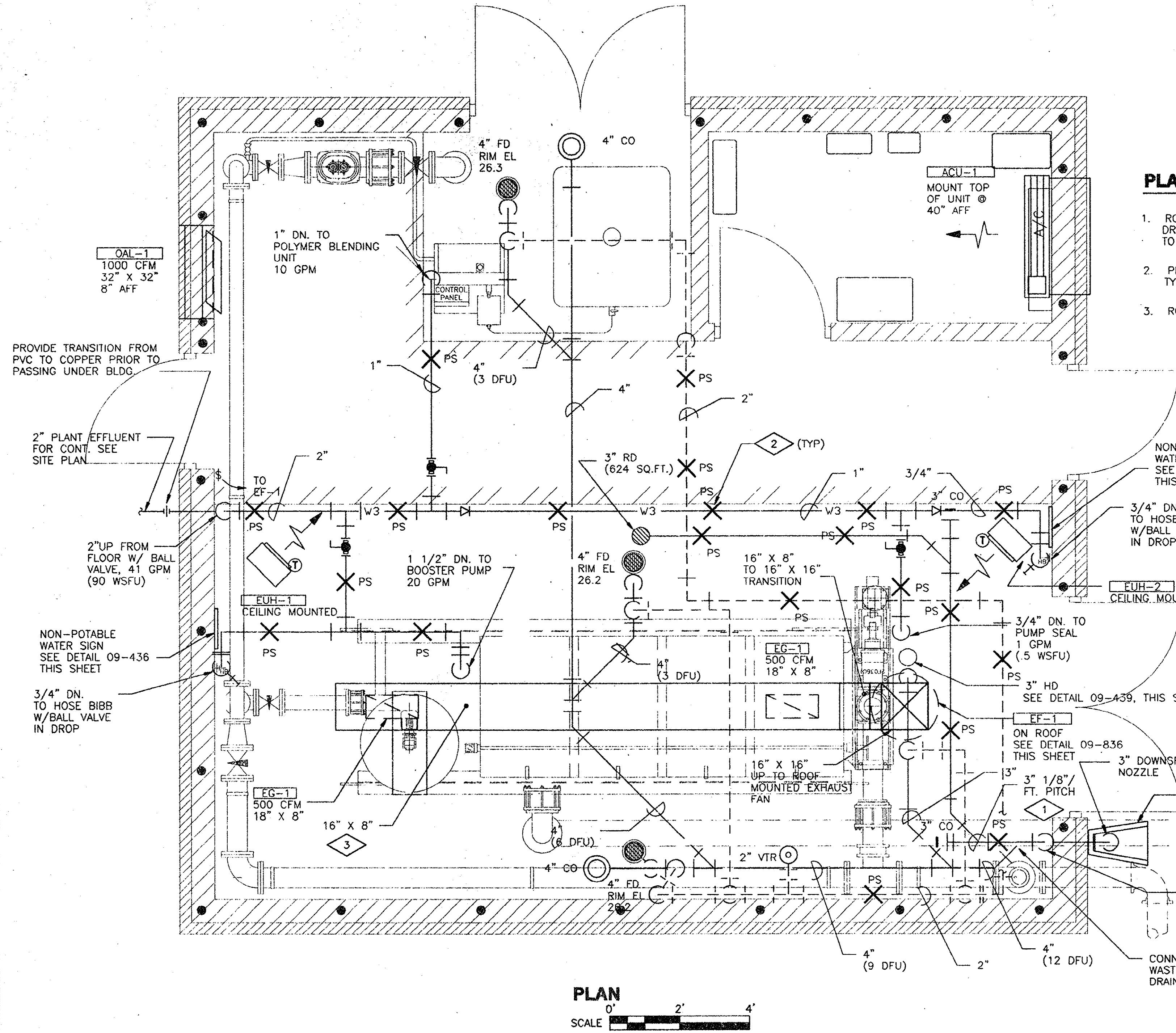
WSFU WATER SUPPLY FIXTURE UNITS

F-O-H FAN-OFF-HEAT

NOTE:
1. THIS LIST OF ABBREVIATIONS SHOWN IS
A STANDARD LIST. NOT ALL ABBREVIATIONS
AND SYMBOLS ARE USED IN THESE CONTRACT
DRAWINGS.

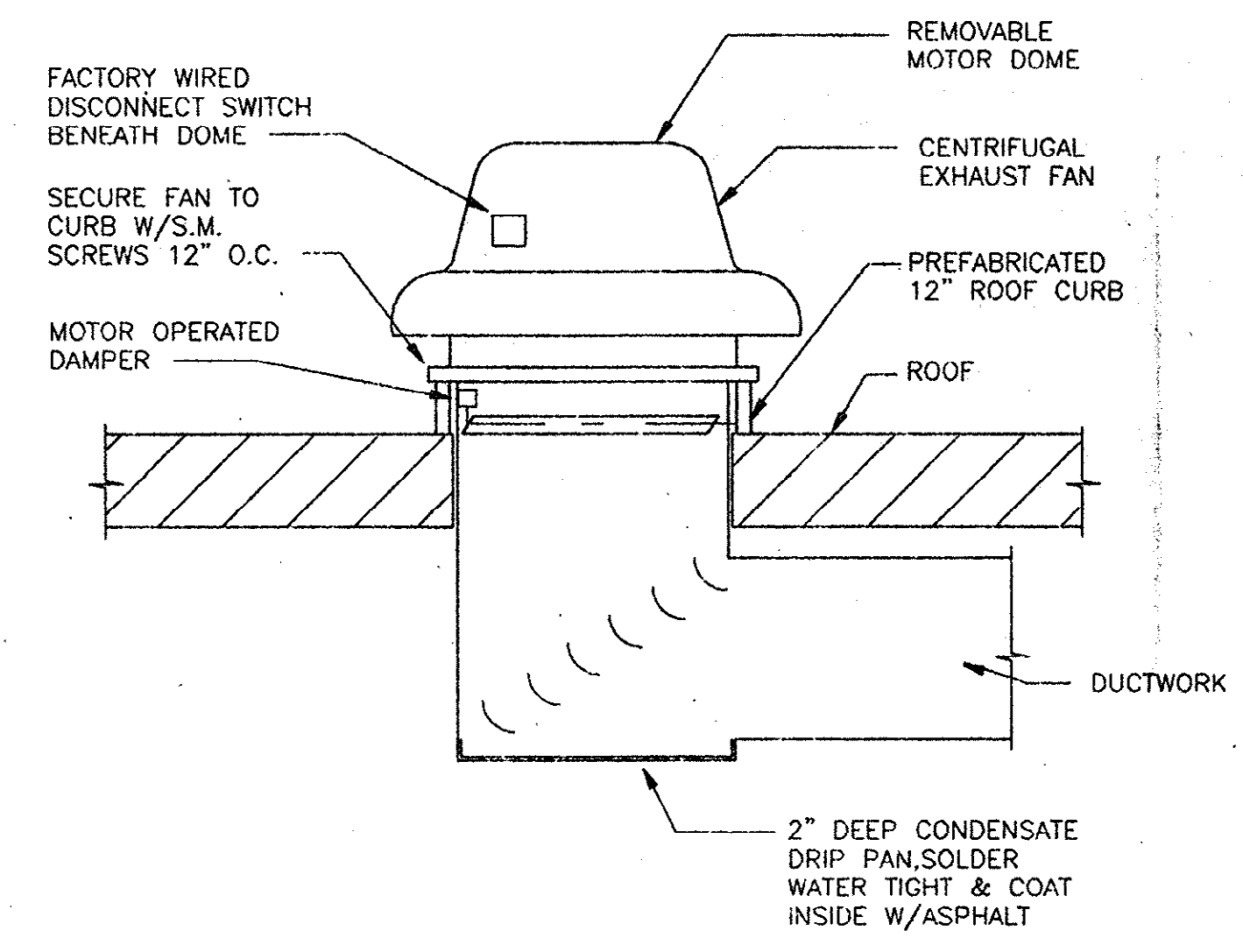
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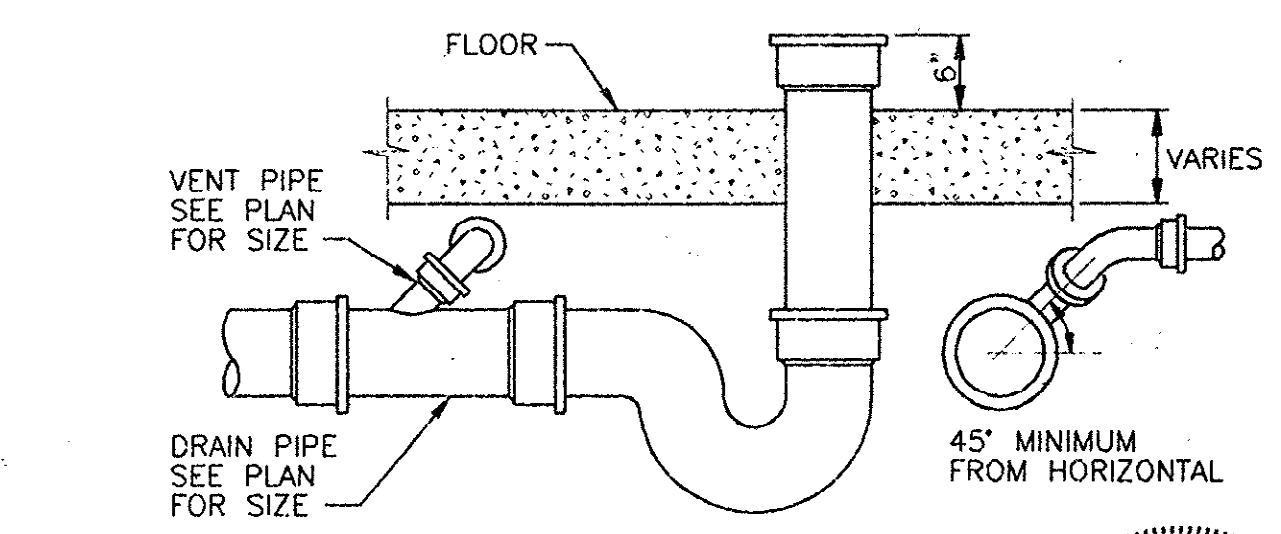


PLAN NOTES

- 1. ROUTE 3-INCH ROOF DRAIN PIPING FROM ROOF DRAIN, ALONG UNDERSIDE OF CEILING, AND DOWN TO DOWNSPOUT NOZZLE AS SHOWN.
- 2. PROVIDE PIPE SUPPORT WHERE INDICATED OF TYPE AS SPECIFIED IN SPEC. SECTION 15140.
- 3. ROUTE DUCT TIGHT AGAINST CEILING.

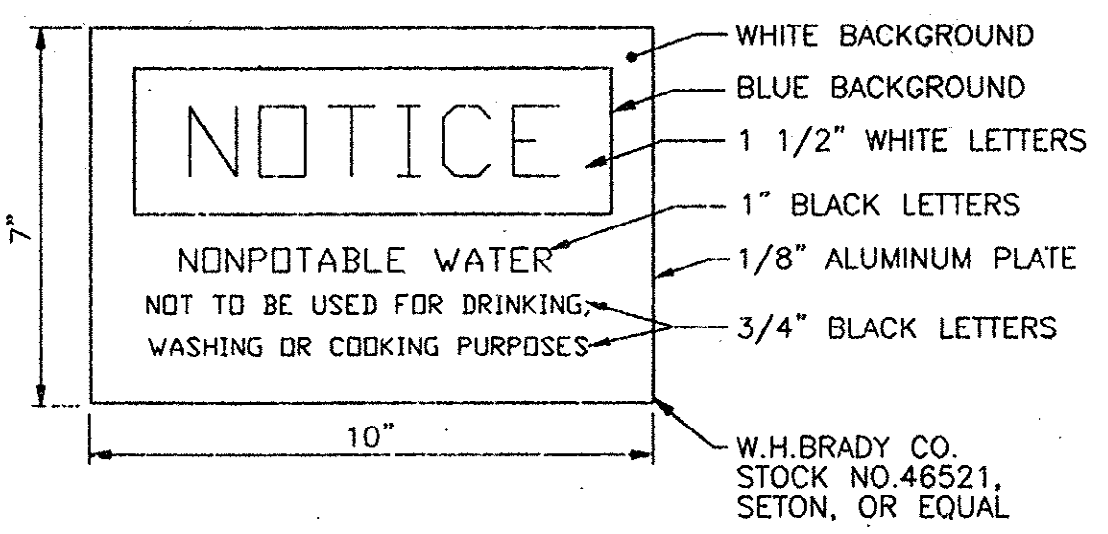


POWER ROOF EXHAUST FAN WITH DUCTWORK 09-836



HUB DRAIN 09-439

NOTE: PROVIDE NON-POTABLE SIGN AT EACH SERVICE WATER (W2) OR FLUSHING WATER (W3) HOSE BIBB, WALL HYDRANT AND HOSE REEL (SEE SPECS.)



NON-POTABLE WATER SIGN 09-436

CONCRETE SPLASH PAD 09-435

PRECAST CONCRETE SPLASH PAD SEE DETAIL 09-435 THIS SHEET

TERMINAL AIR CONDITIONING UNIT SCHEDULE

TAG NO.	MANUF.	MODEL	TYPE	SCFM	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	SEN. CAP.	LAT. CAP.	TOTAL CAP.	HEAT KW	HEAT VOLT	HEAT PHASE	VOLT	PHASE	AMPS	REMARKS
ACU-1	TRANE	PTB-09	WALL UNIT	215	74DegF	63DegF	51DegF	49DegF	5.4 MBH	3.1 MBH	8.5 MBH	1.5	208	1	208	1	10.9	IT,TF

IT = INTEGRAL THERMOSTAT
TF = THROWAWAY AIR FILTER

ELECTRIC UNIT HEATER SCHEDULE

TAG NO.	MANUF.	MODEL	TYPE	OUTPUT(MBH)	MOUNT. HGHT (FT)	CFM	THROW	TEMP RISE	KW	VOLT	PHASE	AMPS	MTR H	MTR RPM	REMARKS
EUH-1	QMARK	MUH-05	PROP.	17	CEILING	350	12	45	5	480	3	6	1/100	1600	IT, ID, MB
EUH-2	QMARK	MUH-03	PROP.	10.2	CEILING	350	12	27	3	480	3	3.6	1/100	1600	IT, ID, MB

IT = INTEGRAL THERMOSTAT
ID = INTEGRAL DISCONNECT
MB = MOUNTING BRACKET

EXHAUST FAN SCHEDULE

TAG NO.	MANU	MODEL	TYPE	MOUNTING	SCFM	ESP(IN.WC.)	BHP	FRPM	DRIVE	HP	VOLT	PHASE	DAMPER	REMARKS
EF-1	GREENHECK	GB-140-4	CENTRI.	ROOF	1000	.25	.09	741	BELT	1/4	120	1	BDD	ID, RC, BS

ID = INTEGRAL DISCONNECT
RC = ROOF CURB
BS = BIRD SCREEN

AIR INLET AND OUTLET SCHEDULE

TAG NO.	MANUF.	MODEL	SERVICE	MAX APD	MAX NC	PATTERN	MATERIAL	FINISH	DAMPER	REMARKS
EG-1	ANEMOSTA	X3VS	EXHAUST	.03	22	VERTICAL	ALUM.	BE	OB	
EG-1	ANEMOSTA	X3VS	EXHAUST	.03	22	VERTICAL	ALUM.	BE	OB	

BE = BAKED ENAMEL
OB = OPPOSED BLADE

WALL LOUVER SCHEDULE

TAG NO.	MANUF.	MODEL	SERVICE	CFM	WIDTH	HEIGHT	DEPTH	MAX. APD	MFAV	REMARKS
OAL-1	GREENHECK	ESD-401	OUTSIDE	1000	32	32	4	.05	400	BIRDSCREEN (1/2\"/>

Rust
Rust Environment & Infrastructure Inc.

GRAND STRAND WATER & SEWER AUTHORITY
SLUDGE THICKENER FACILITY
CONWAY, SOUTH CAROLINA

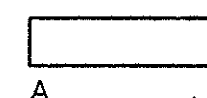
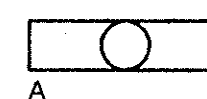
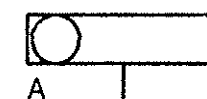
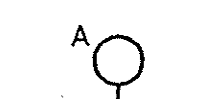
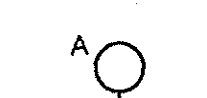
SLUDGE THICKENER BUILDING
HVAC/PLUMBING PLAN & DETAILS

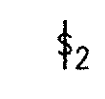
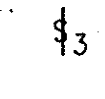
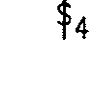
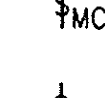
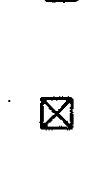
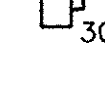
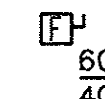
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PROJECT NO: 200243.10000
FILENAME: 001HP.DWG
SHEET NO: 10 of 15
DRAWING NO: HP-2
07-013-010/15

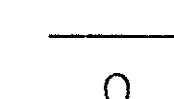
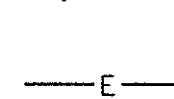
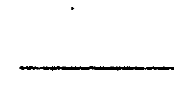
ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFG	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
BWE	BAKED WHITE ENAMEL
C	CONTACTOR/CONDUIT/COIL
CB	CIRCUIT BREAKER
CKT, CCT	CIRCUIT
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DWG	DRAWING
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
I&C	INSTRUMENTATION & CONTROL
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LCP	LOCAL CONTROL PANEL
LP	LIGHTING PANEL
M	METER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MTR, M	MOTOR
MTD	MOUNTED
MTG	MOUNTING
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE (ANSI/NFPA-70)
NEUT, N	NEUTRAL
NF	NON FUSED
NO	NORMALLY OPEN
OL	OVERLOAD RELAY
PB	PUSHBUTTON/PULLBOX
PC	PHOTOCELL
PNL	PANEL
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE
SB	SPLICEBOX
SEL	SELECTOR SWITCH
SOL	SOLENOID VALVE
SW	SWITCH
V	VOLTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

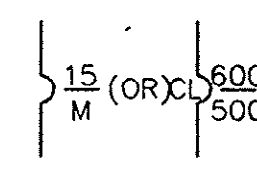
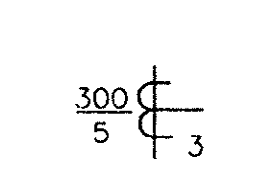
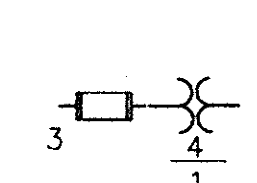
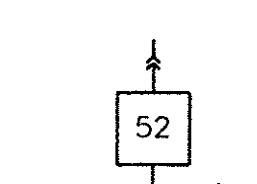
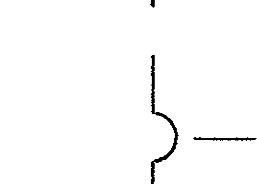
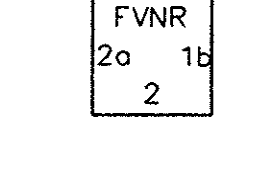
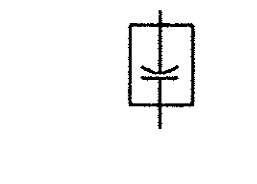
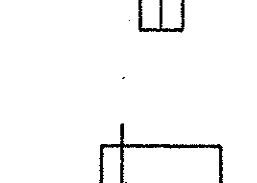
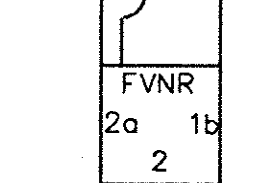
PLAN SYMBOLS

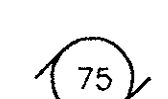
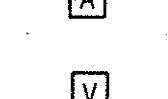
	FLUORESCENT FIXTURE - RECESSED (LETTER DENOTES TYPE)
	FLUORESCENT FIXTURE - SURFACE OR SUSPENDED (LETTER DENOTES TYPE)
	FLUORESCENT FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
	INCANDESCENT OR HID FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
	POLE MOUNTED FIXTURE (LETTER DENOTES TYPE)
	EMERGENCY BATTERY LIGHT

	REMOTE HEAD FOR EMERGENCY BATTERY LIGHT
	EXIT LIGHT WITH INDICATING DIRECTIONAL ARROW
	SINGLE POLE SWITCH
	TWO POLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	MOMENTARY CONTACT SWITCH - CENTER OFF
	SWITCH / PILOT LIGHT
	DOOR SWITCH
	DUPLEX GROUNDED RECEPTACLE - 120V
	DUPLEX GROUNDED RECEPTACLE - 120V MOUNTED 6" ABOVE COUNTER
	DUPLEX GROUNDED RECEPTACLE FURNISHED UNDER DIVISION 11. INSTALL AND WIRED UNDER DIVISION 16
	CONNECTION TO EQUIPMENT
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AND AMPERE RATING AS INDICATED
	TELEPHONE OUTLET, WALL MOUNT WITH 3/4" CONDUIT TO TELEPHONE TERMINAL CABINET (W - INDICATES 54" MOUNTING HEIGHT FOR PHONE) (B - INDICATES 96" MOUNTING HEIGHT FOR BELL UNLESS NOTED OTHERWISE)
	MANUAL STARTER WITH PILOT LIGHT
	THREE PHASE MAGNETIC STARTER
	THREE PHASE COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
	SINGLE PHASE MAGNETIC STARTER
	NON-FUSED DISCONNECT SWITCH (NUMERAL INDICATES SWITCH RATING)
	FUSED DISCONNECT SWITCH - 3 POLE UNLESS OTHERWISE INDICATED (UPPER NUMERAL INDICATES SWITCH RATING) (LOWER NUMERAL INDICATES FUSE RATING)
	LIGHTING PANEL
	TRANSFORMER
	POWER PANEL
	TERMINAL CABINET (ITC - INDICATES INSTRUMENTATION) (TTC - INDICATES TELEPHONE)
	MOTOR
	DAMPENER MOTOR

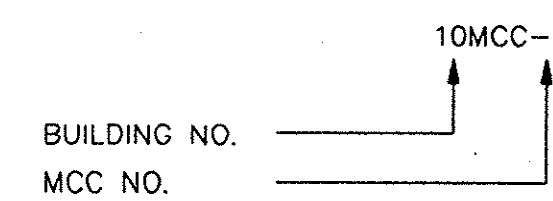
	JUNCTION BOX
	HANDHOLE
	MANHOLE
	GROUND ROD
	CONDUIT STUB
	CONDUIT TURNING UP OR TO OBSERVER
	CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
	FLEXIBLE CONDUIT CONNECTION
	HOMERUN CIRCUIT OR CONDUCTORS
	DIRECT BURIAL CABLE
	UNDERGROUND ELECTRICAL DUCT, CONCRETE ENCASED.

ONE-LINE SYMBOLS

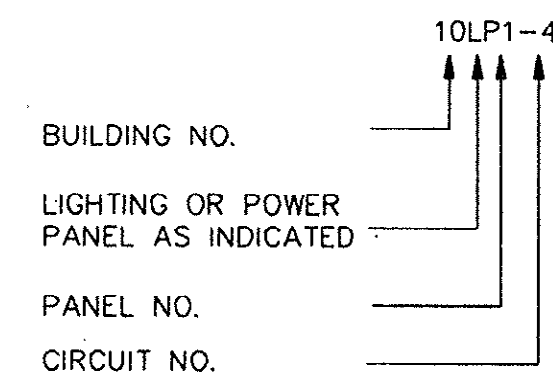
	MOLDED CASE CIRCUIT BREAKER (UPPER NUMERAL INDICATES FRAME SIZE) (LOWER NUMERAL INDICATES TRIP SETTING) (CL - INDICATES CURRENT LIMITING CIRCUIT BREAKER) (M - INDICATES MOTOR CIRCUIT PROTECTOR)
	CURRENT TRANSFORMER ($\frac{300}{5}$ INDICATES TURNS RATIO) (3 - INDICATES QUANTITY)
	POTENTIAL TRANSFORMER ($\frac{4}{1}$ INDICATES TURNS RATIO) (3 - INDICATES QUANTITY)
	DRAWOUT CIRCUIT BREAKER
	MAGNETIC STARTER AND MOLDED CASE CIRCUIT BREAKER (FVNR - INDICATES FULL VOLTAGE NON-REVERSING) (RVNR - INDICATES REDUCED VOLTAGE NON-REVERSING) (2SPD - INDICATES TWO SPEED) (AUXILIARY CONTACTS - (2a TWO N.O.)(1b ONE N.C.) (NUMERAL INDICATES NEMA SIZE)
	POWER FACTOR CORRECTION CAPACITOR SIZE AS INDICATED
	TRANSFORMER
	COMBINATION MAGNETIC STARTER WITH MOLDED CASE CIRCUIT BREAKER
	GROUND

	MOTOR (NUMERAL INDICATES HORSEPOWER)
	GENERATOR
	THREE PHASE WYE CONNECTION
	THREE PHASE DELTA CONNECTION
	AMMETER SELECTOR SWITCH
	VOLTMETER SELECTOR SWITCH
	AMMETER
	VOLTMETER
	CONTROL STATION SOME ABBREVIATIONS THAT MAY BE USED:
AM	AUTO-MANUAL
CAM	COMPUTER-AUTO-MANUAL
CM	COMPUTER-MANUAL
DS	DOOR SWITCH
ETM	ELAPSED TIME METER
FR	FORWARD-REVERSE
HLO	HIGH-LOW-OFF SWITCH
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
LOS	LOCK-OUT-STOP
LR	LOCAL-REMOTE
MA	MANUAL-REMOTE
OC	OPEN-CLOSED
OCA	OPEN-CLOSED-AUTO
OCS	OPEN-CLOSED-STOP
OO	ON-OFF MAINTAINED CONTACT
OOA	ON-OFF-AUTO
PB	PUSHBUTTON
SF	SLOWER-FASTER
SS	START-STOP MOMENTARY CONTACT
USG	ULTRA SONIC GENERATOR
ZS	LIMIT SWITCH

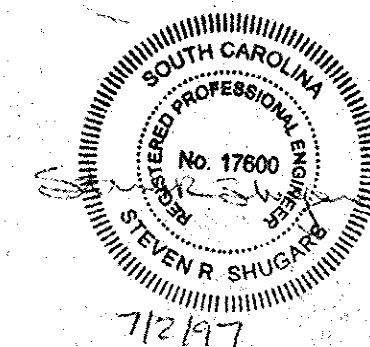
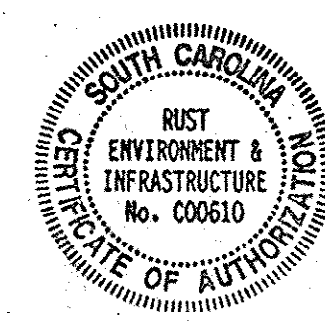
MOTOR CONTROL CENTER



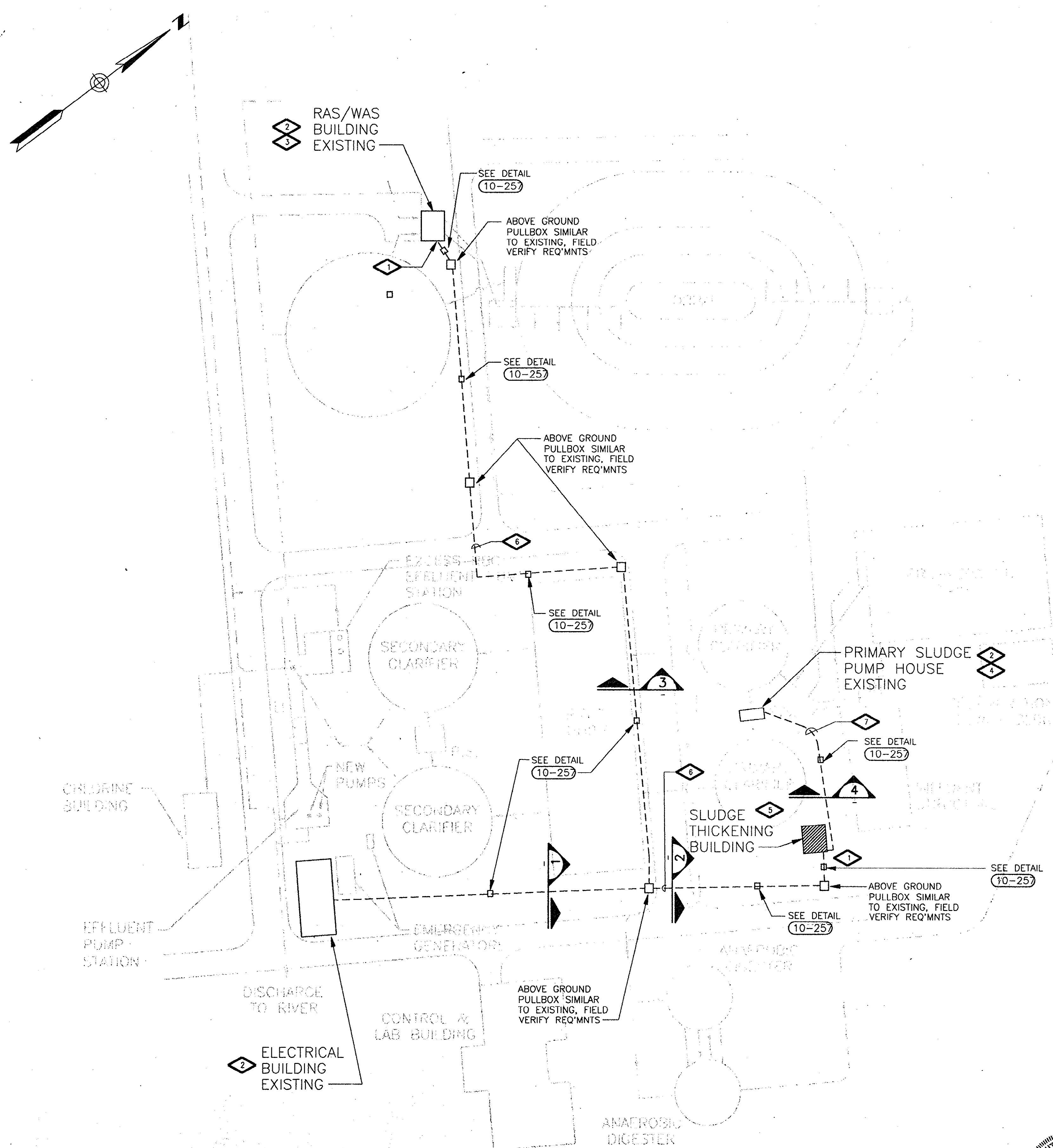
PANEL BOARDS



NOTE:
1. THIS LIST OF ABBREVIATIONS SHOWN IS
A STANDARD LIST. NOT ALL ABBREVIATIONS
AND SYMBOLS ARE USED IN THESE CONTRACT
DRAWINGS.

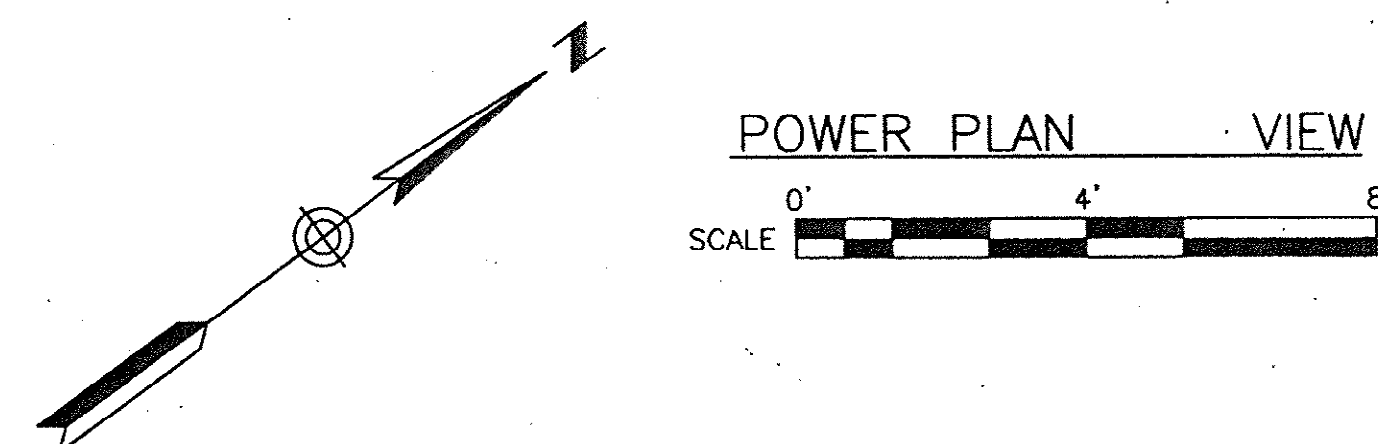
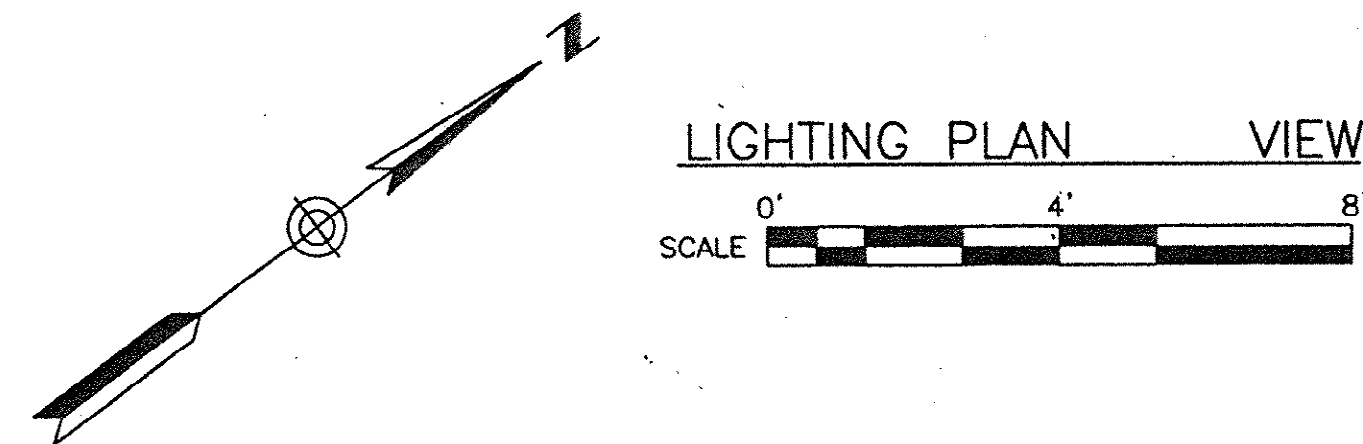


CHARLESTON	05-30-97	05-30-97	07-01-97	07-02-97	NO	REVISIONS	DRN CHK	DATE
DRN SRS								
DES SRS								
CHK DK								
APP HWJ								
Copyright © Rust Environment & Infrastructure, Inc.								
GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER FACILITY CONWAY, SOUTH CAROLINA								
ELECTRICAL ABBREVIATIONS AND SYMBOLS								
DATE	APRIL 1997							
PROJECT NO	200243.10000							
FILENAME	E-1.DWG							
SHEET NO	11 of 15							
DRAWING NO	E-1							



A circular professional engineer seal for the State of South Carolina. The outer ring contains the text "SOUTH CAROLINA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The center of the seal features the text "No. 17800" and the name "STEVEN R. SHUGARS" below it. The seal is stamped in black ink on a white background.

GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER FACILITY CONWAY, SOUTH CAROLINA PROPOSED SLUDGE THICKENER BUILDING ELECTRICAL SITE PLAN		 Rust Environment & Infrastructure Inc.		CHARLESTON						
				DRN SRS	05-30-97					
		DES SRS	05-30-97							
		CHK DK	07-01-97							
		APP HW	07-02-97							
		Copyright © Rust Environment & Infrastructure, Inc.								
				NO	REVISIONS	DRN/CHK	DATE			



DRN	SRS		05-30-97
DES	SRS		05-30-97
CHK	DK		07-01-97
APP	HJW		07-02-97

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GRAND STRAND WATER & SEWER AUTHORITY
SLUDGE THICKENER FACILITY
CONWAY, SOUTH CAROLINA

PROPOSED SLUDGE THICKENER
BUILDING ELECTRICAL PLANS

DATE	APRIL 1997
PROJECT NO	200243.10000
FILENAME	E3.DWG
SHEET NO	13 of 15
DRAWING NO	E-3

NO	
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DATE

07-013-013/15

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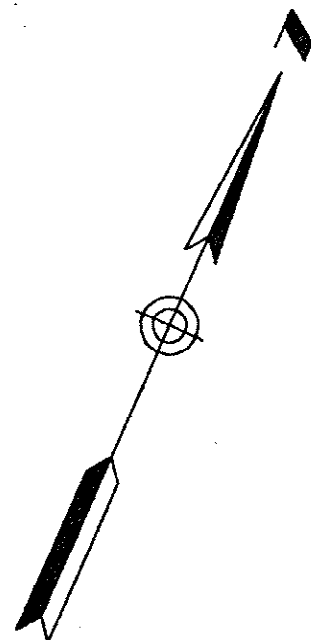
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REFERENCE FILE 4 = no ref name*
Levels On= no ref levels*
REFERENCE FILE 5 = no ref name*
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REFERENCE FILE 1 = no ref name*
Levels On= no ref levels*
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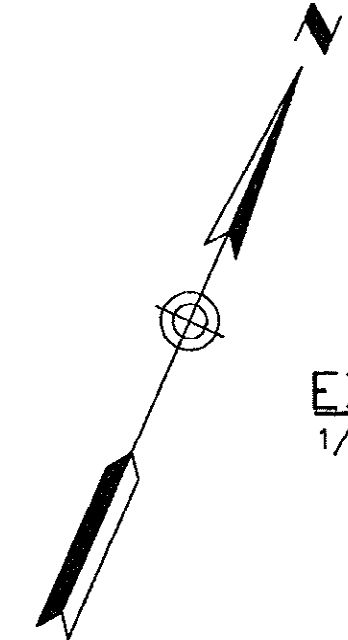
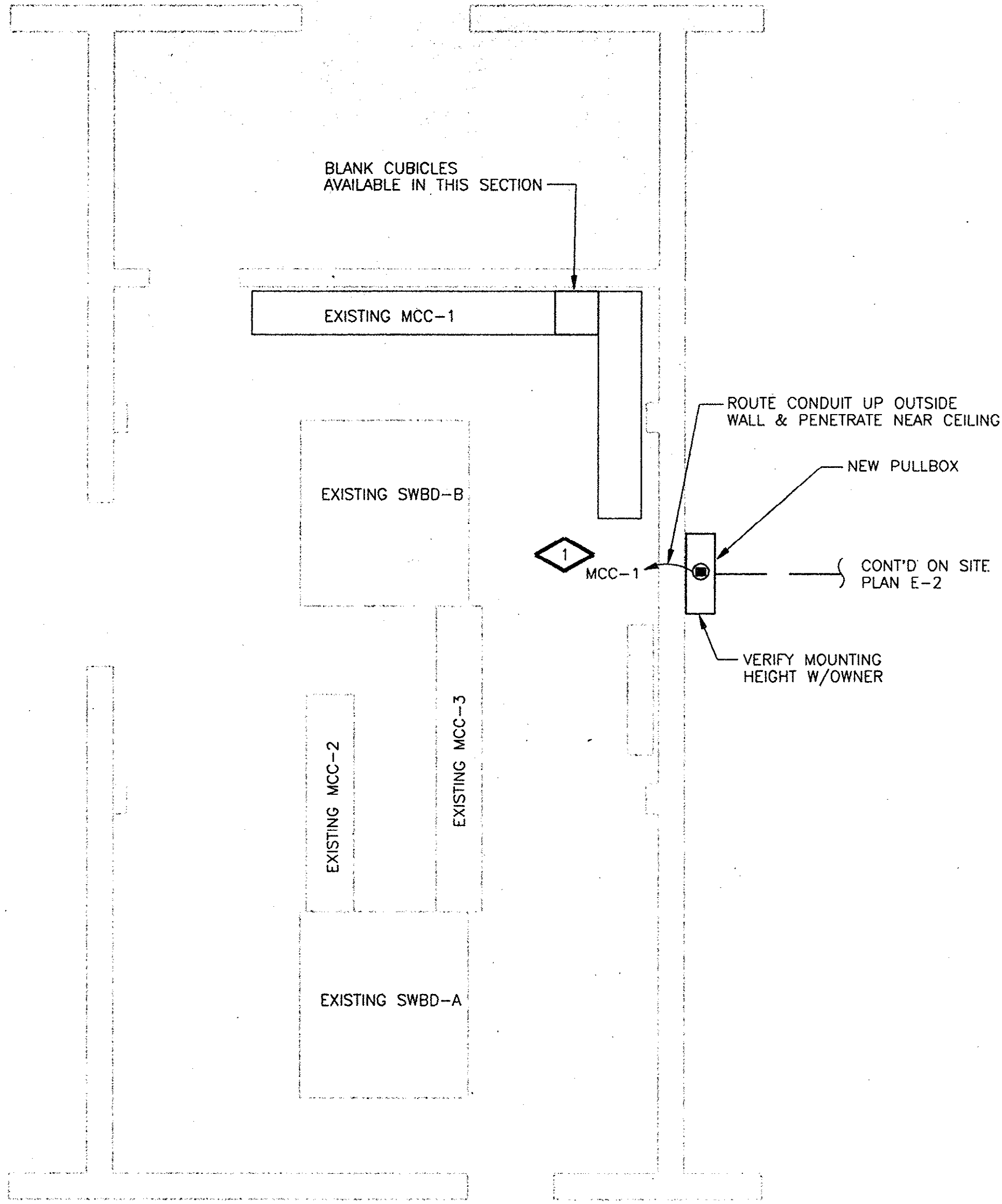
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EXISTING ELECTRICAL BUILDING PLAN
1/4" = 1'-0"

PLAN NOTES:

1. PROVIDE NEW 200AT CIRCUIT BREAKER IN EXISTING MCC-1 IN AVAILABLE BLANK SECTION. CIRCUIT BREAKER SHALL MATCH MAKE, MODEL AND RATINGS OF EXISTING MCC. PROVIDE NEW NAMEPLATE "SLUDGE THICKENER BUILDING FEEDER"

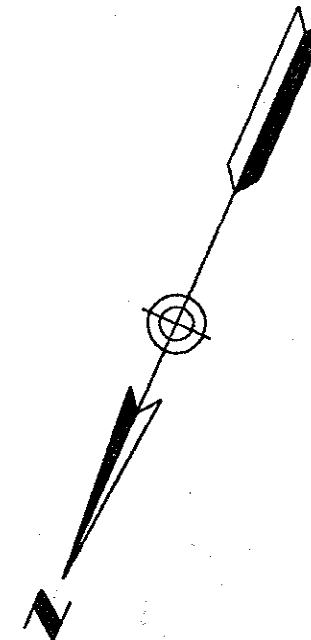
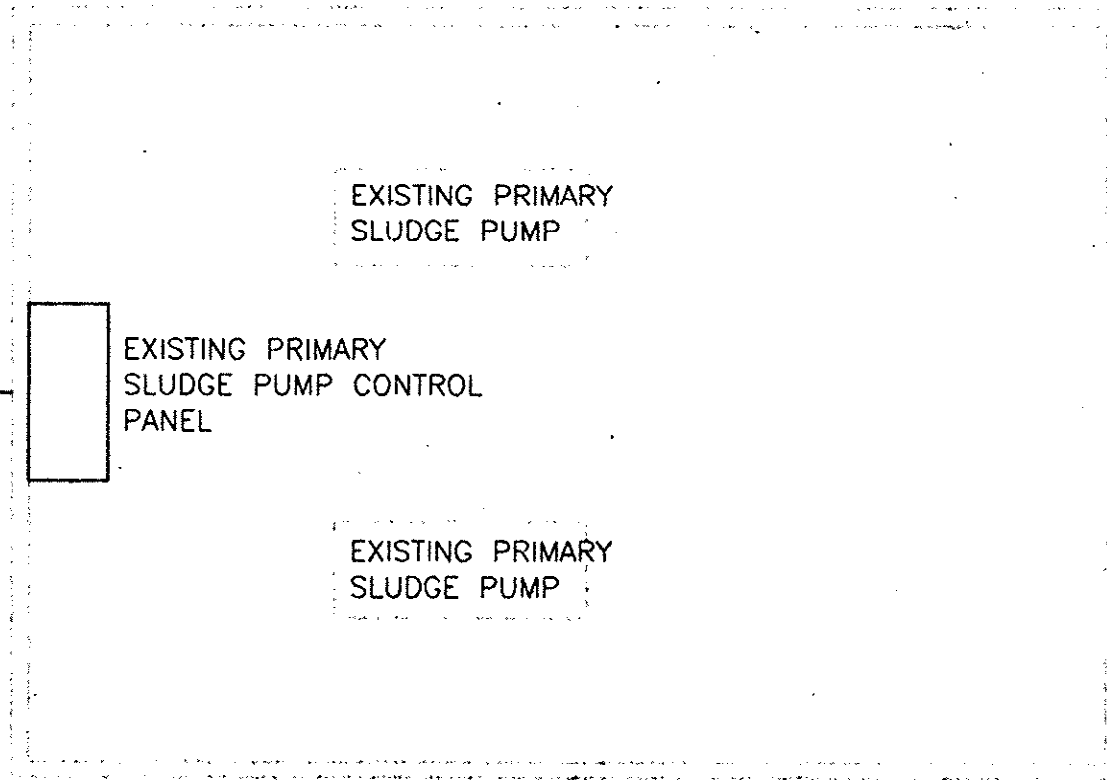


EXISTING RAS/WAS BUILDING PLAN
1/4" = 1'-0"

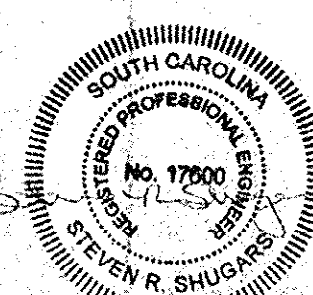
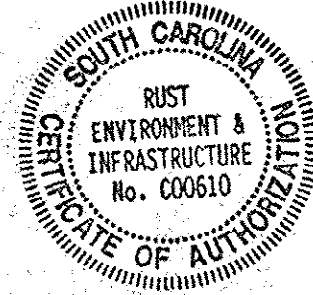
EXISTING MCC SECTION FOR WAS PUMPS
EXISTING MCC
TO WAS PUMP STARTERS

CONT'D ON SITE PLAN E-2

CONT'D ON SITE PLAN E-2



EXISTING PRIMARY SLUDGE PUMP HOUSE PLAN
1/4" = 1'-0"



GRAND STRAND WATER & SEWER AUTHORITY SLUDGE THICKENER FACILITY CONWAY, SOUTH CAROLINA	
EXISTING BUILDINGS ELECTRICAL PLANS	
DATE	APRIL 1997
PROJECT NO	200243.10000
FILENAME	E-4.DWG
SHEET NO	14 of 15
DRAWING NO	E-4

07-013-014/15

RUST
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CHARLESTON	05-30-97
DRN SRS	05-30-97
DES SRS	07-01-97
CHK DK	07-02-97
APP HW	

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NO

REVISIONS

DRN CHK

DATE

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$SRF13$
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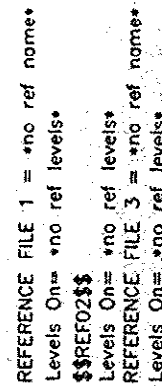
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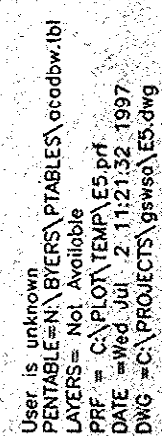
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NTS



NTS

Diagram illustrating the assembly of a Unistrut bracket to a concrete wall:

- CONCRETE ANCHOR (TYP)
- 1/4" BOLT (TYP)
- UNISTRUT BRACKET #P1944
KINDORF OR EQUAL (2 REQ'D PER FIXTURE)
- 3/16" NUT AND BOLT (TYP)

NTS



NTS

CHARLESTON

05-30-	
--------	--

05-30-		
07-01-		

07-01-	
07-02-	

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A. A. Mikhlin

Rust Environment & Infrastructure Inc.

GRAND STRAND WATER & SEWER AUTHORITY
SLUDGE THICKENER FACILITY
CONWAY, SOUTH CAROLINA

ONE-LINE DIAGRAM, SCHEDULES, RISER DIAGRAM AND DETAILS

DATE APRIL 1997

PROJECT NO 00001710000

FILENAME

SHEET NO

DRAWING NO

E-5

07-013-015/15