

MYRTLE BEACH WWTP PIPING MODIFICATIONS

HORRY COUNTY, SOUTH CAROLINA



RECORD DRAWING

OCTOBER 2012

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Version: 5



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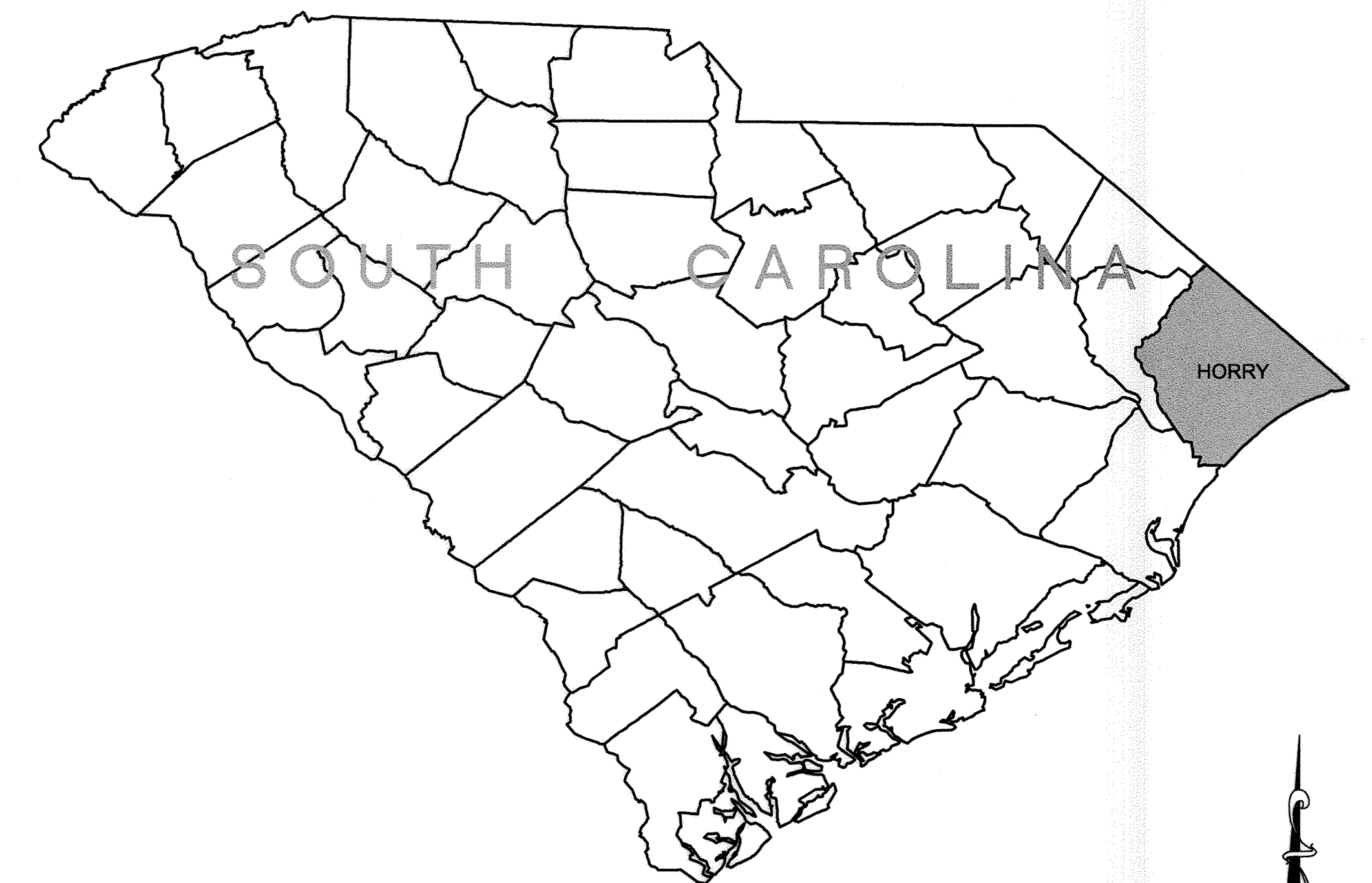
1300 SECOND AVENUE • SUITE 211 • CONWAY, SC 29526
Phone: 843.488.0124 Fax: 843.488.0129

OCTOBER 2012

JOB NO. 31001

11x17 DWGS. ARE
TRUE HALF SCALE

AS-BUILT



LOCATION MAP
N.T.S.

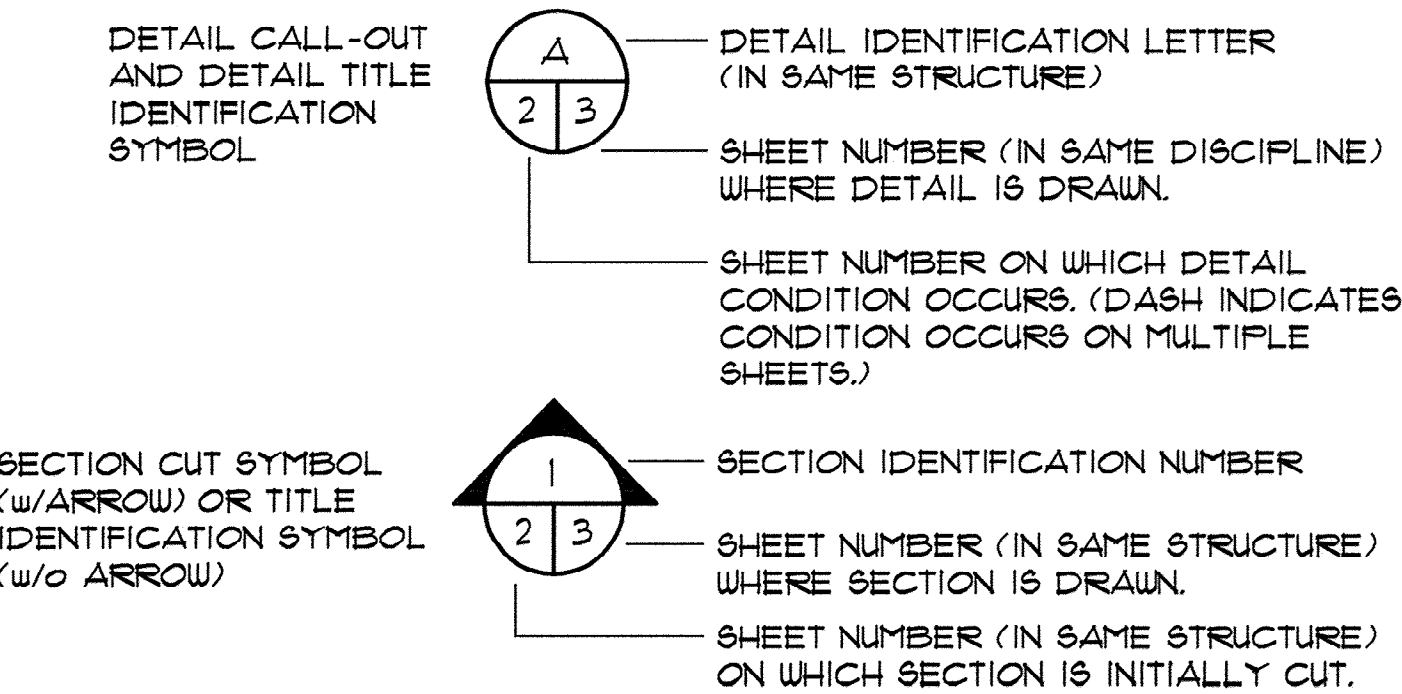


51-014-001/17

GENERAL CONSTRUCTION ABBREVIATIONS

#	NUMBER OR FOUND	INFL	INFLUENT
⌀	DIAMETER	INS.	INSIDE
&	AND	INV.	INVERT
<	LESS THAN	JT.	JOINT
<=	LESS THAN OR EQUAL TO	JTS	JOINTS
>	GREATER THAN	L.L.O.	LONG LEG OUT
@	AT	LB	FOUND
A.B.	ANCHOR BOLT	LG	LONG
AFF.	ABOVE FINISHED FLOOR	L.P.	LOW POINT
ADDL.	ADDITIONAL	M.J.	MECHANICAL JOINT
ALUM	ALUMINUM OR ALUM	MATL.	MATERIAL
APPROX	APPROXIMATE(LY)	MAS	MASONRY
ARCH	ARCHITECTURAL	MAX	MAXIMUM
BM	BENCH MARK OR BEAM	MECH	MECHANICAL
BOTT.	BOTTOM	MFR	MANUFACTURER
B.W.	BLOCK WALL	MH	MANHOLE
C.I.	CAST IRON	MIN	MINIMUM
C/C	CENTER TO CENTER	MNTG	MOUNTING
CAP	CAPACITY	N.P.W.	NONPOTABLE WATER
CIRCUM	CIRCUMFERENCE	N.T.S.	NOT TO SCALE
CL	CLAY	NO.	NUMBER
CLR.	CLEARANCE	O.C.	ON CENTER
CL2	CHLORINE	O/O	OUTSIDE TO OUTSIDE
CLARIF	CLARIFIER	OPNG	OPENING
CHEM.	CHEMICAL	OX	OXIDATION
COL	COLUMN	P.E.	PLAIN END
CONC.	CONCRETE	FED	FEDESTAL
CONST	CONSTRUCTION	FL	PLATE
CONT	CONTINUOUS	PLCS.	PLACES
CONTR	CONTRACTOR	PROJ	PROJECTION
CU	COPPER	P.S.	PUMP STATION
C.W.	CONCRETE WALL	P.V.C.	POLYVINYL CHLORIDE
D	DIAMETER	R.C.P.	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RAD.	RADIUS
D.I.P.	DUCTILE IRON PIPE	RAS	RETURN ACTIVATED SLUDGE
DISCH.	DISCHARGE	RED	REDUCER
DP	DEEP	REF	REFERENCE
DWLS.	DOWELS	REINF	REINFORCING OR REINFORCED
E.F.	EACH FACE	REQ'D	REQUIRED
E.J.	EXPANSION JOINT	S.S.	STAINLESS STEEL
EA	EACH	SCH.	SCHEDULE
EFF.	EFFLUENT	SHT	SHEET
EL	ELEVATION	SIM	SIMILAR
ELEV	ELEVATION	SO2	SULFUR DIOXIDE
EQ	EQUAL	SPA	SPACES
EQUIP	EQUIPMENT	SQ.	SQUARE
EXIST.	EXISTING	STD.	STANDARD
EXP.	EXPANSION	STL	STEEL
F.E.S.	FLARED END SECTION	STN	STAINLESS
FRP.	FIBERGLASS	S.W.	SLAB WIDTH
	REINFORCED PLASTIC	S.W.D.	SIDE WALL DEPTH
FIG	FIGURE	T/	TOP OF
FIN	FINISHED	TCJ/CJ	TYP. CONTROL JOINT,
FL	FLANGE		CONSTRUCTION JOINT
FLR	FLOOR	THRD	THREAD(S) (ED)
FTG	FOOTING	TRICK	TRICKLING
GALV	GALVANIZED	TYP	TYPICAL
HDWE	HARDWARE	U.O.N.	UNLESS OTHERWISE NOTED
HK	HOOK	VERT	VERTICAL
HORIZ.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC
H.P.	HIGH POINT	W/	WITH
HYD	HYDRANT	W/O	WITHOUT
I.D.	INSIDE DIAMETER	WAS	WASTE ACTIVATED SLUDGE
O.D.	OUTSIDE DIAMETER	W/L	WATER LEVEL

SECTION/DETAIL LEGEND



GENERAL NOTES

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AS-BUILT

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OCTOBER 2012

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GENERAL NOTES & INDEX

MYRTLE BEACH WWTP

PIPING MODIFICATIONS

HORRY COUNTY, SOUTH CAROLINA

Scale: AS SHOWN

Date: OCT 2012

Drawn: ALR

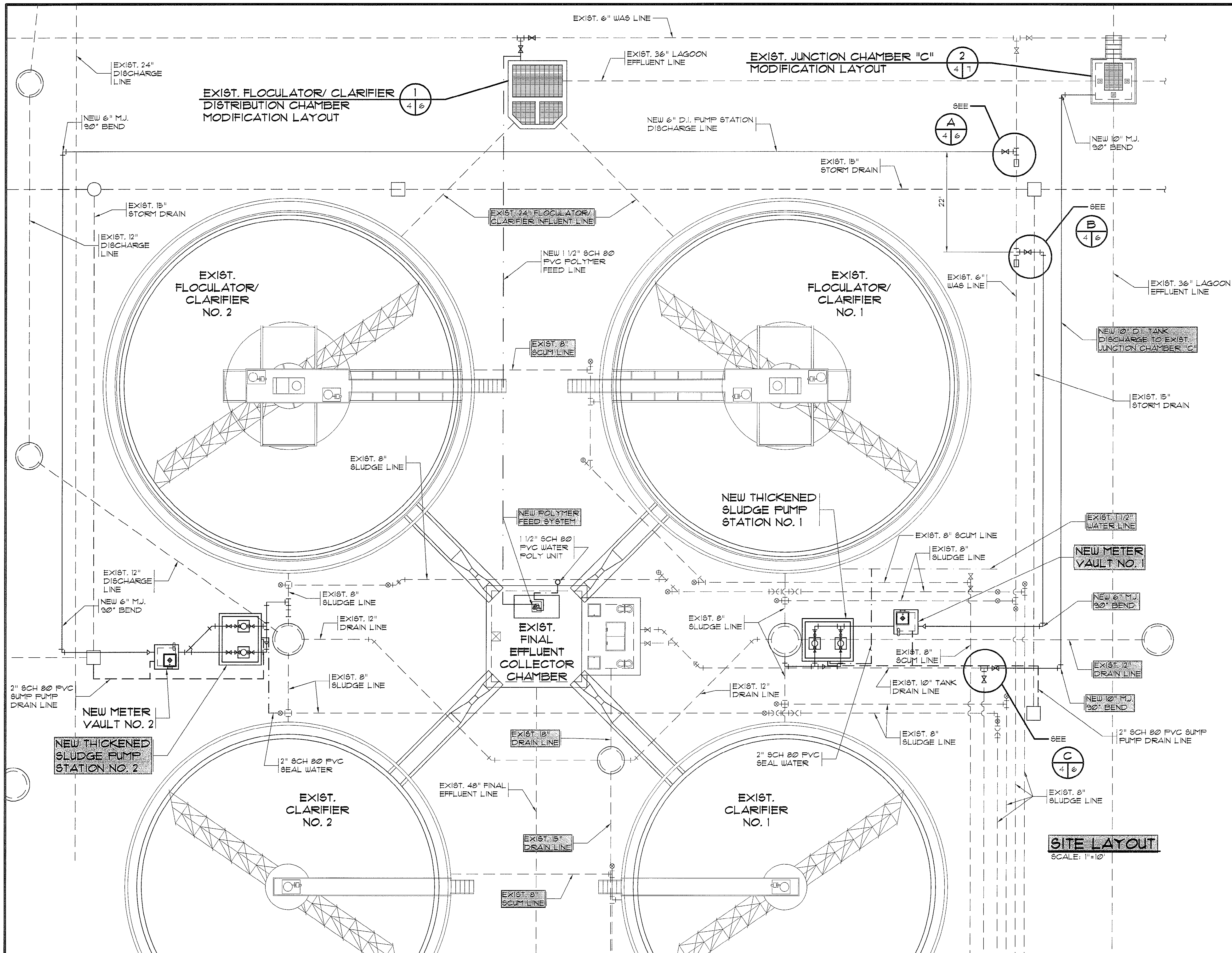
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Job No.: 31001

Sheet No.: G-2

Of: 5 Version: 5

51-014-002/17



SITE LAYOUT
SCALE: 1"=10'

AS-BUILT

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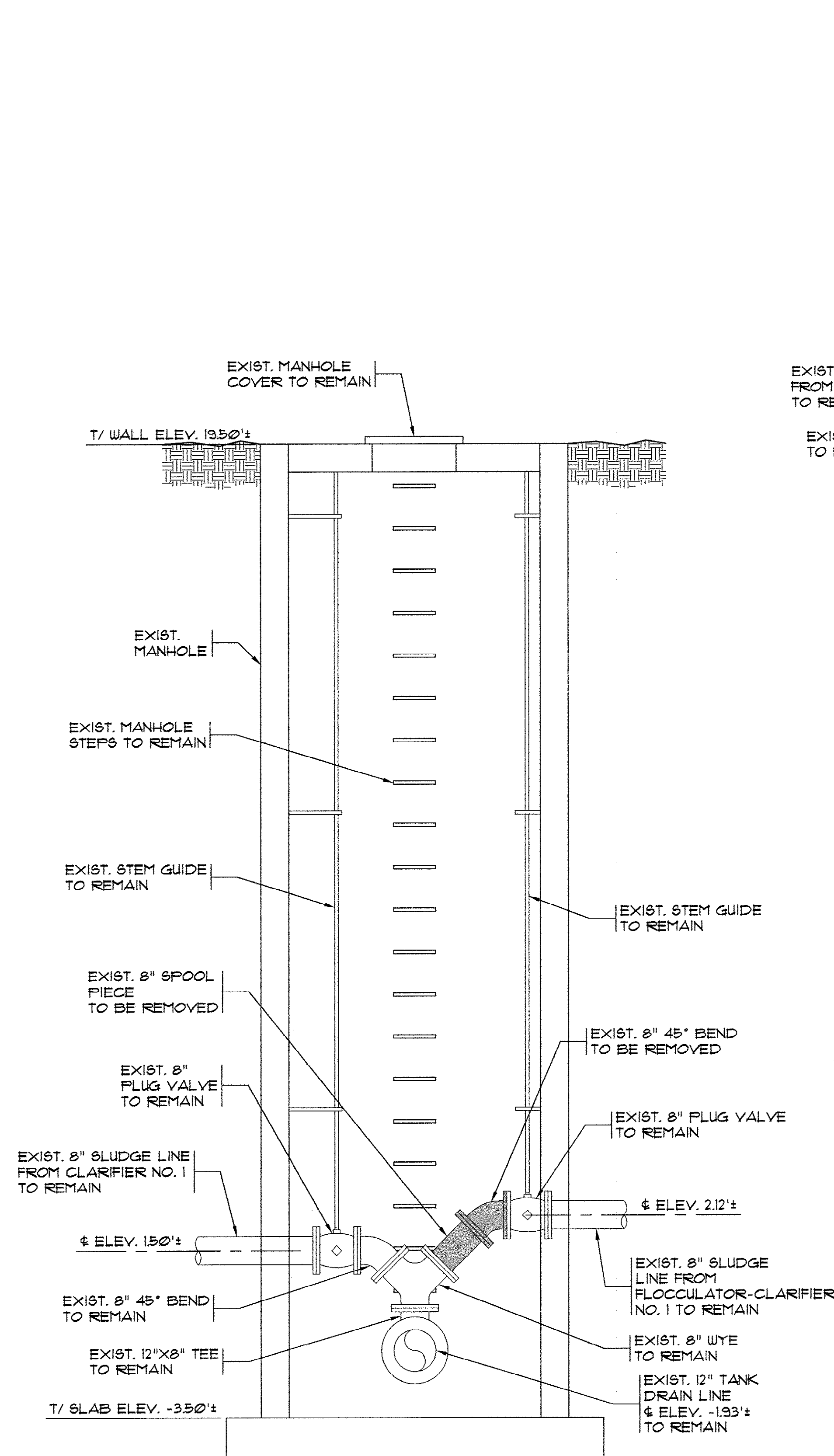
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CIVIL ENGINEERS
1000 SECOND AVENUE, SUITE 201 • CONWAY, SC 29536
Phone: 843-486-0324 Fax: 843-486-0329

SITE LAYOUT

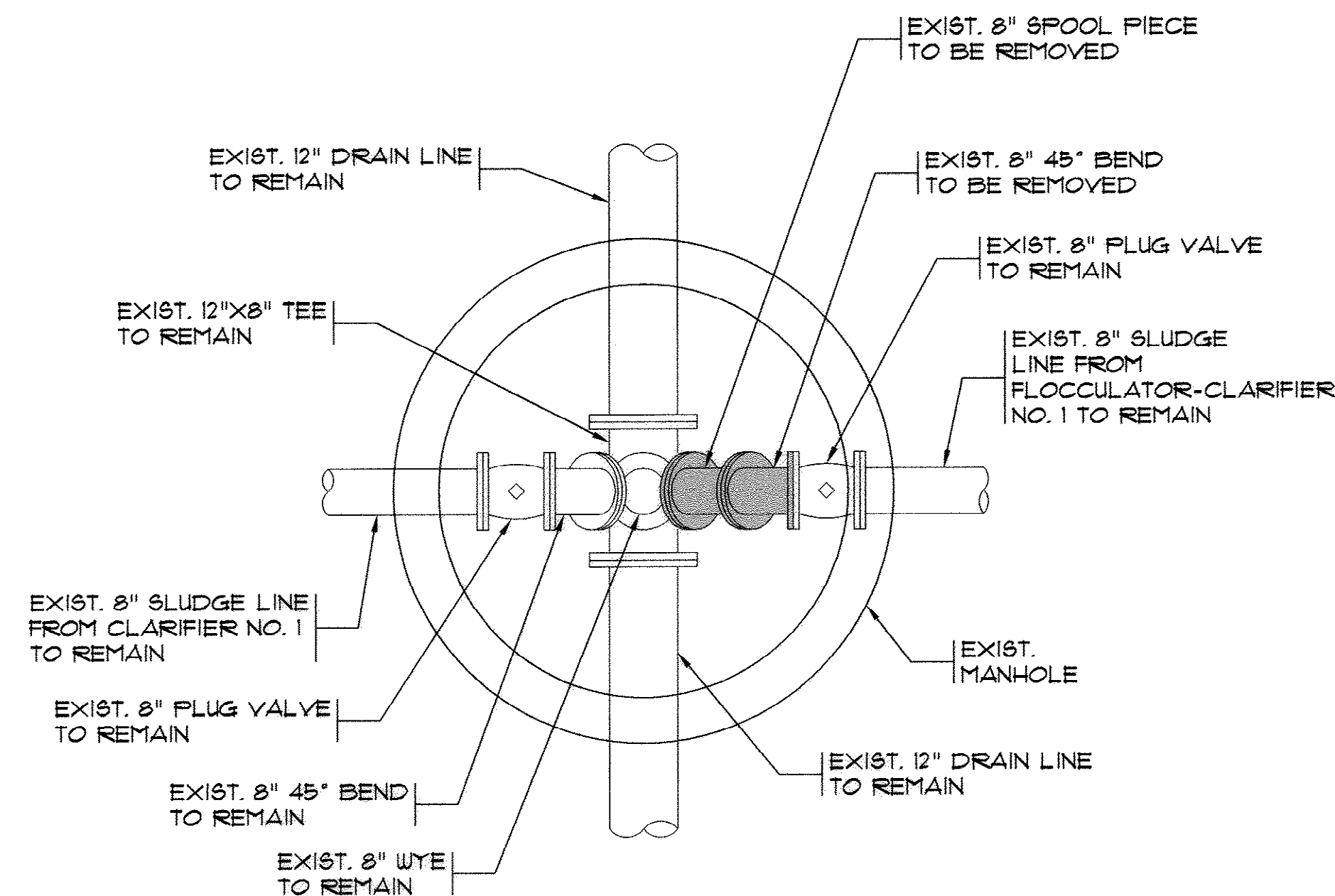
**MYRTLE BEACH WWTP
PIPING MODIFICATIONS**
HORRY COUNTY, SOUTH CAROLINA

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Sheet No.: **G-4**
Of: 5 Version: 5

51-014-004/17

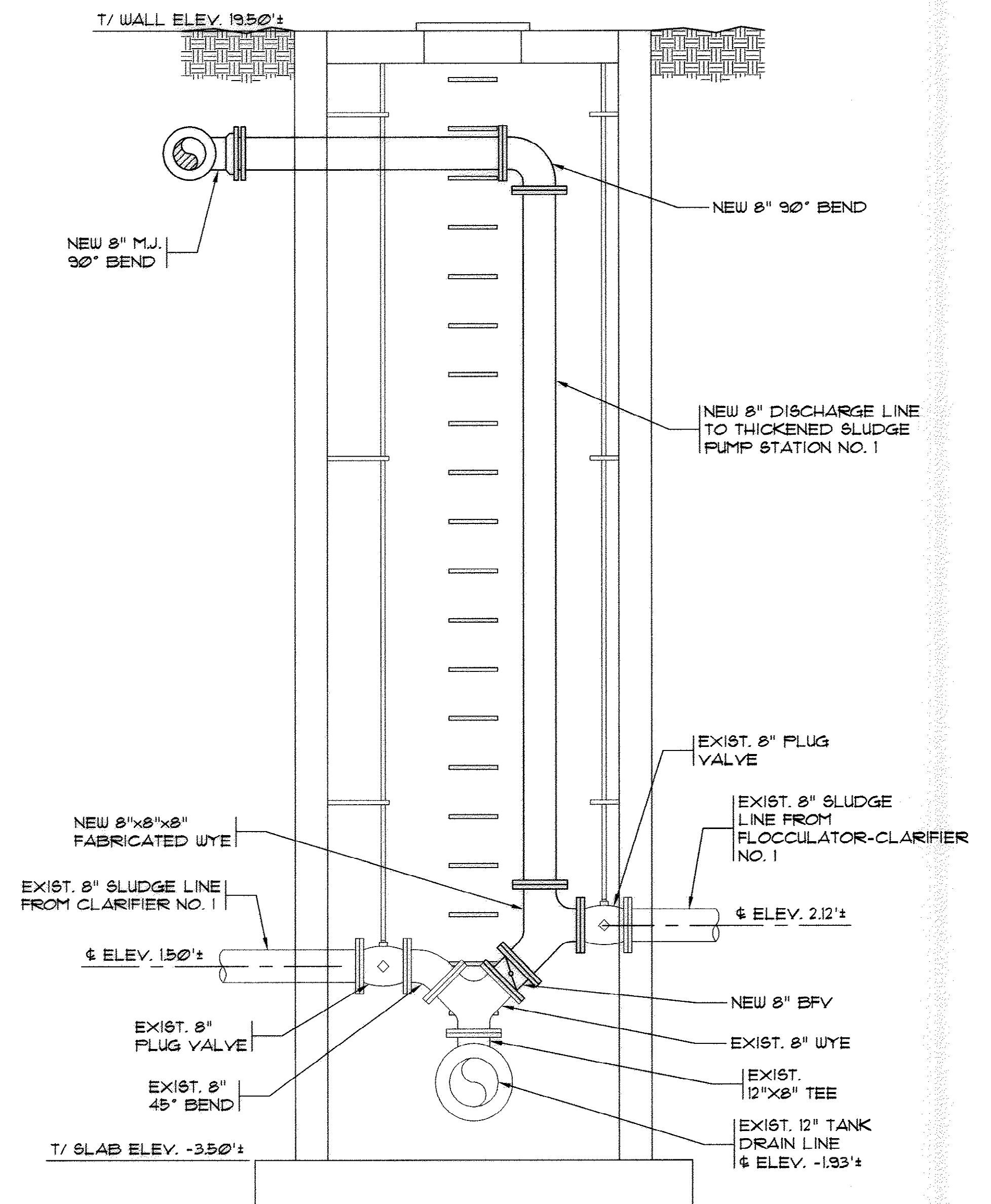


DEMOLITION SECTION
SCALE: 1/2"=1'-0"



EXIST. MANHOLE "A" DEMOLITION LAYOUT
SCALE: 1/2"=1'-0"

INDICATES PORTIONS
TO BE REMOVED OR
RELOCATED



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

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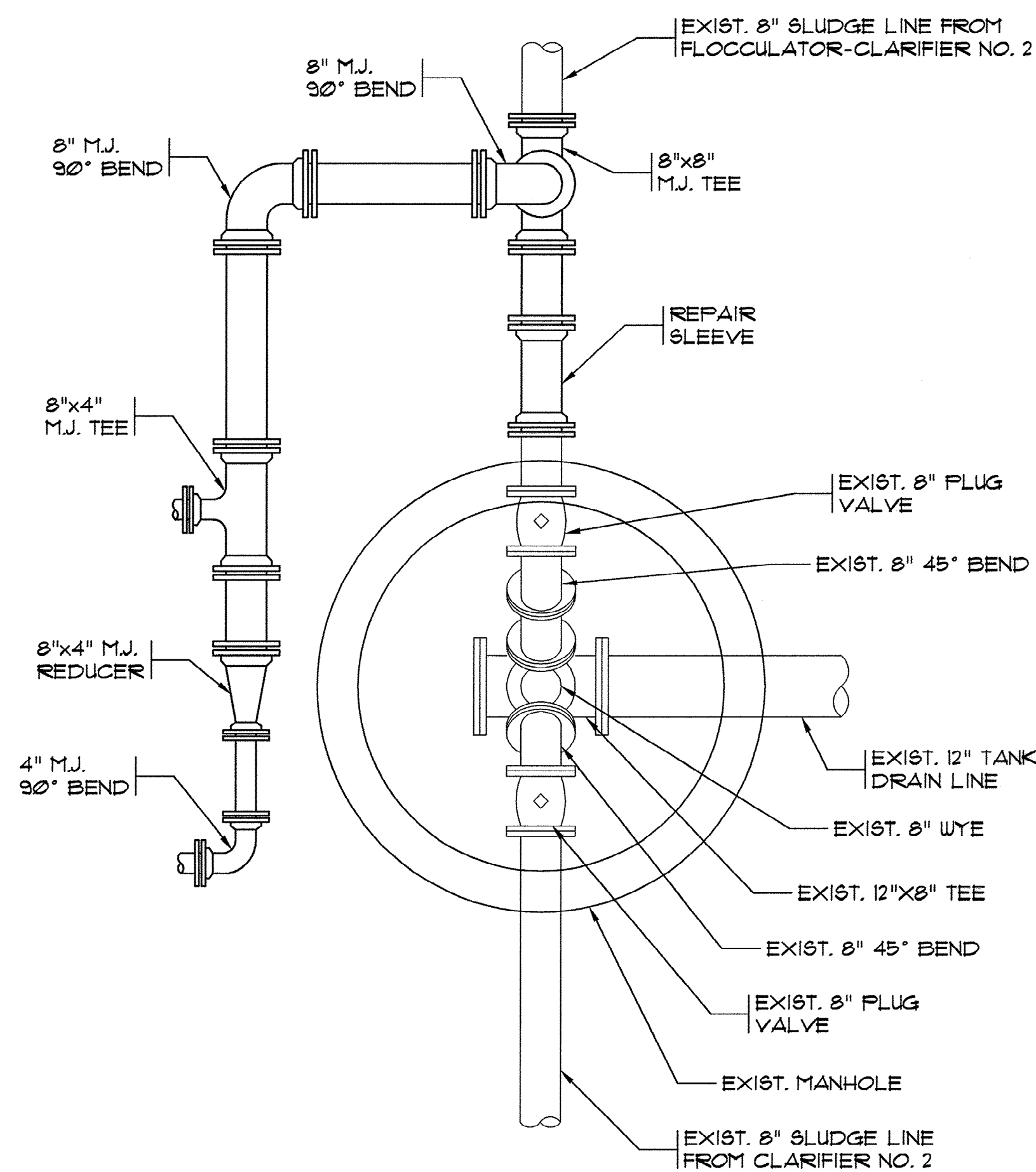
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CONSULTING ENGINEERS
UNION AVENUE • SUITE 201 • CHARLOTTE, NC 28206
PHONE: 704.488.0829 FAX: 704.488.0829

EXIST. MANHOLE "A"
DEMOLITION
LAYOUT & SECTION &
MODIFICATION SECTION

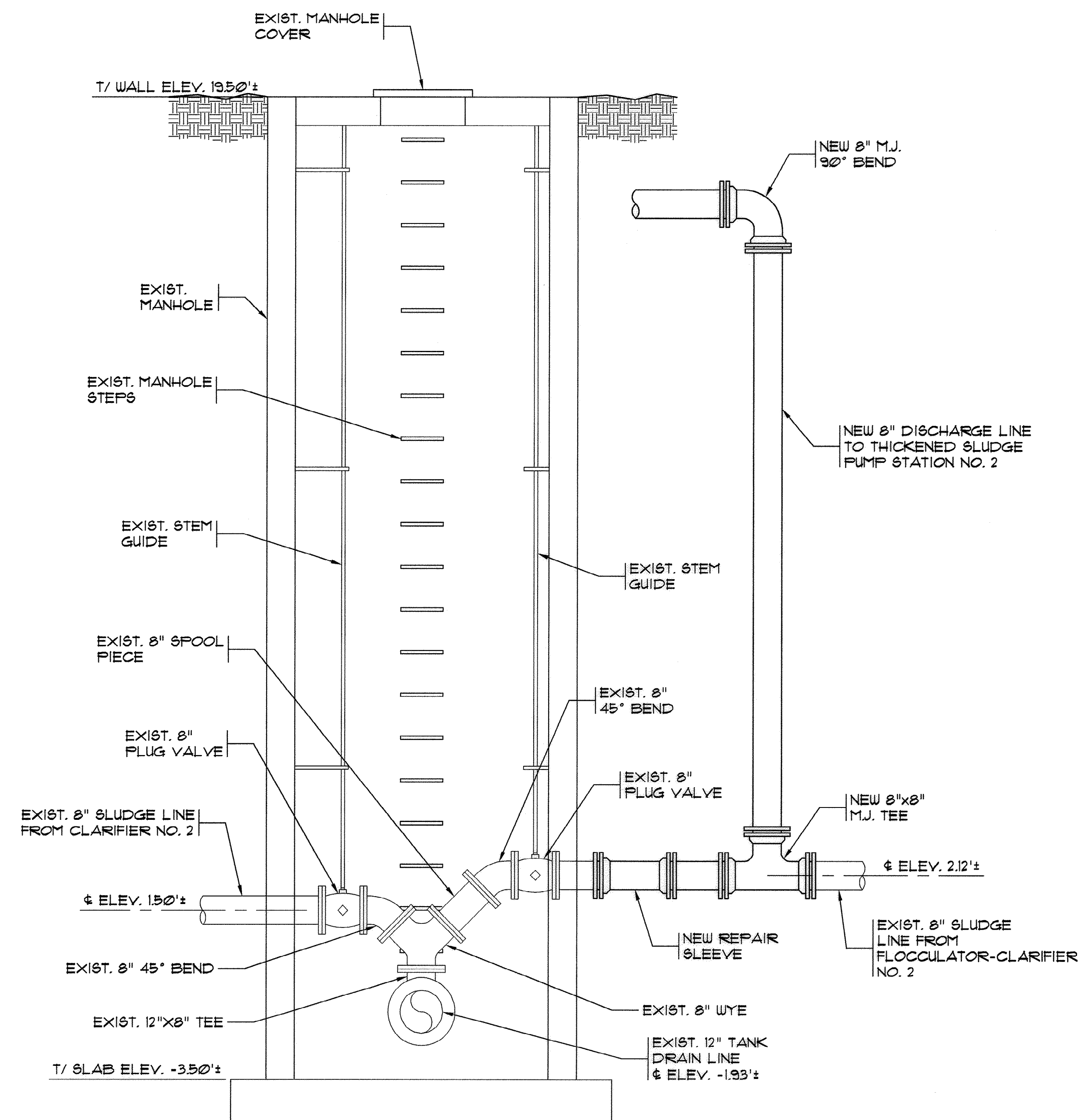
MYRTLE BEACH WWTP
PIPING MODIFICATIONS
Horry County, South Carolina

Scale: AS SHOWN
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51-014-005/17



EXIST. MANHOLE "B" LAYOUT
SCALE: 1/2"=1'-0"



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

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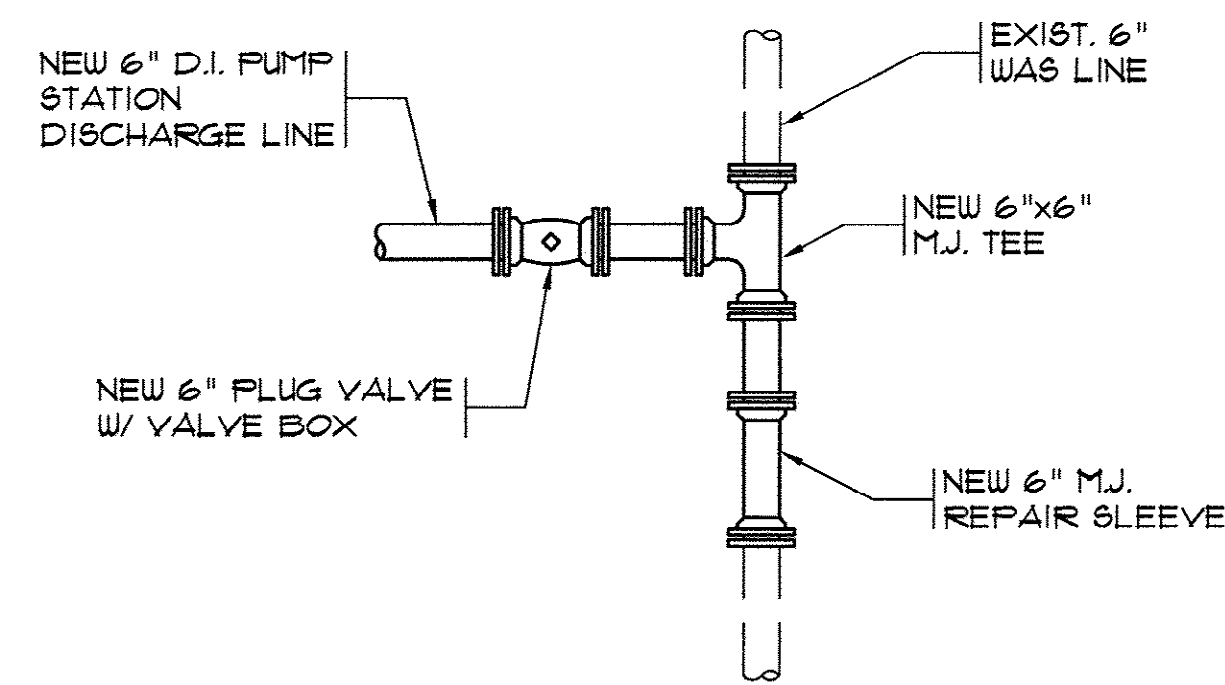
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PHONE: 843.685.0125 FAX: 843.685.0126

EXIST. MANHOLE "B"
LAYOUT &
MODIFICATION SECTION

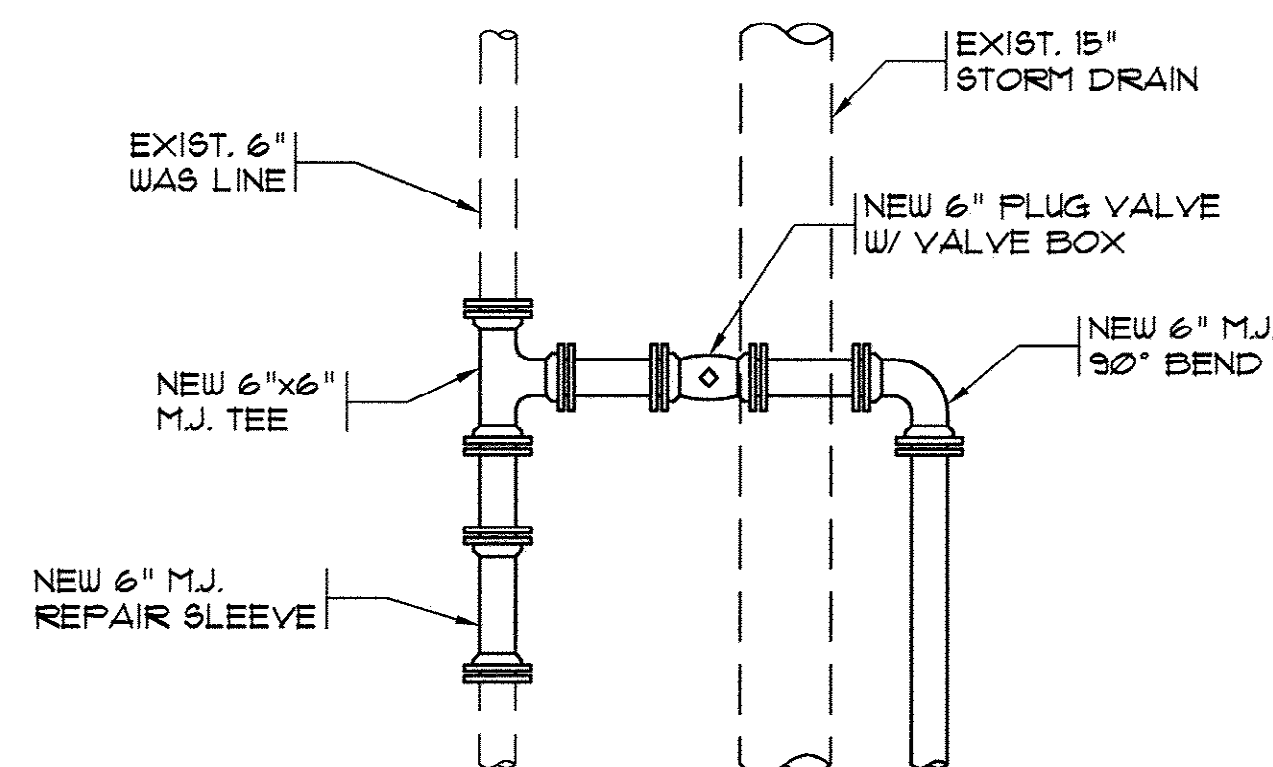
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PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA

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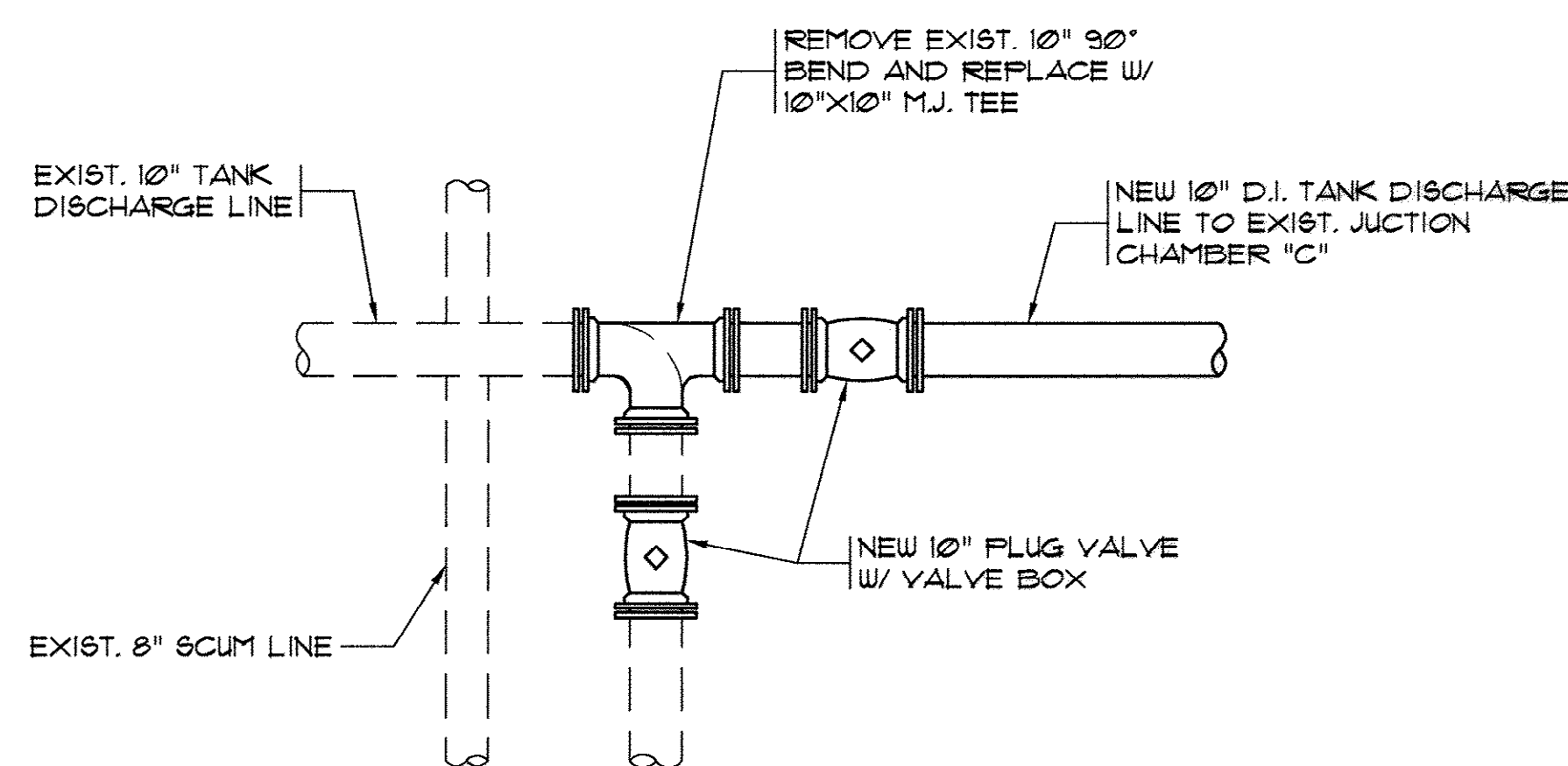
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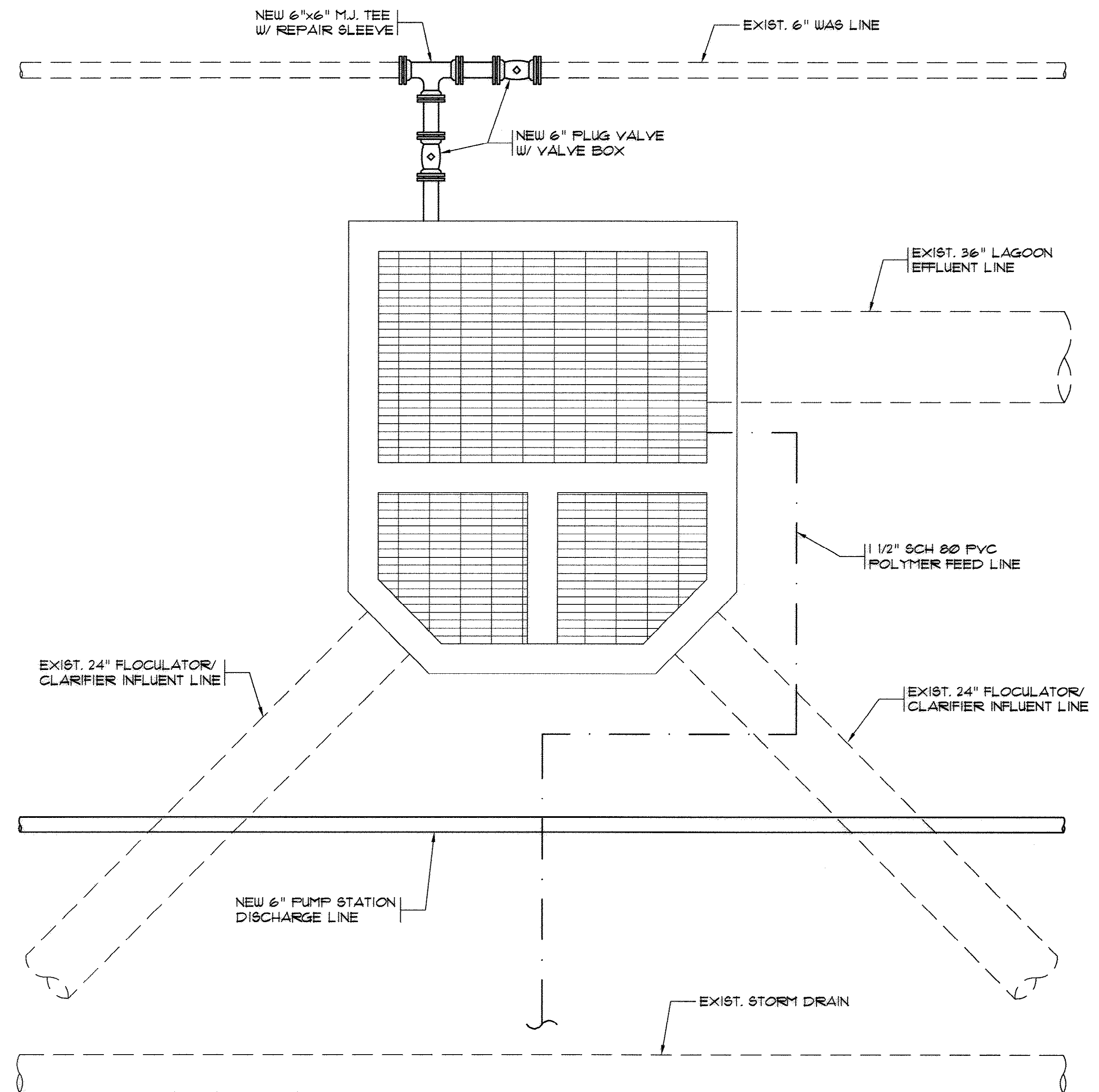
A PIPING DETAIL
SCALE: 3/8"=1'-0"



B PIPING DETAIL
SCALE: 3/8"=1'-0"



C PIPING DETAIL
SCALE: 3/8"=1'-0"



1 EXIST. FLOCCULATOR/ CLARIFIER DISTRIBUTION CHAMBER LAYOUT
SCALE: 3/8"=1'-0"

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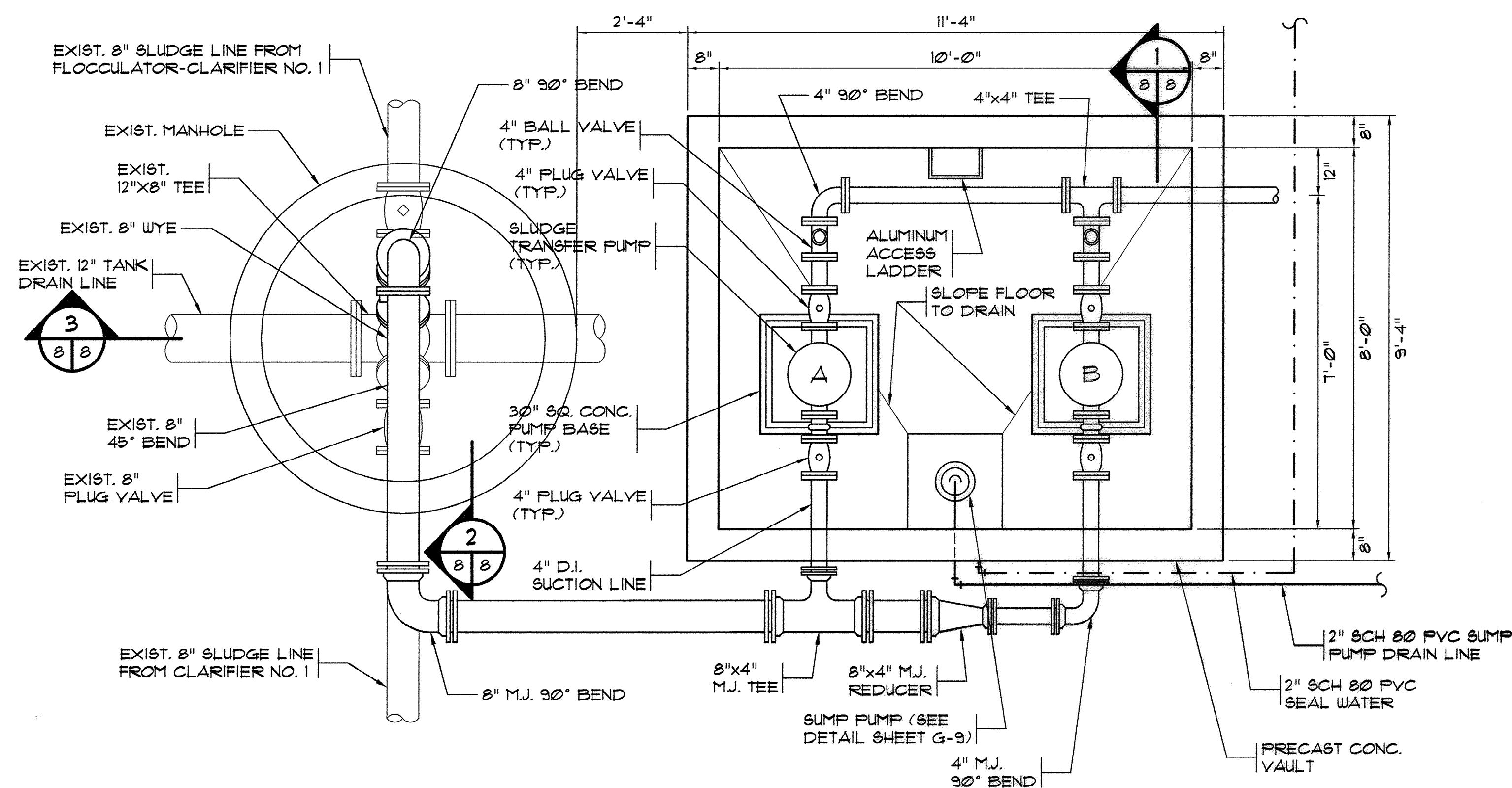
EXIST. FLOCCULATOR/
CLARIFIER DISTRIBUTION
CHAMBER LAYOUT
& PIPING DETAILS

MYRTLE BEACH WWTP
PIPING MODIFICATIONS
Horry County, South Carolina

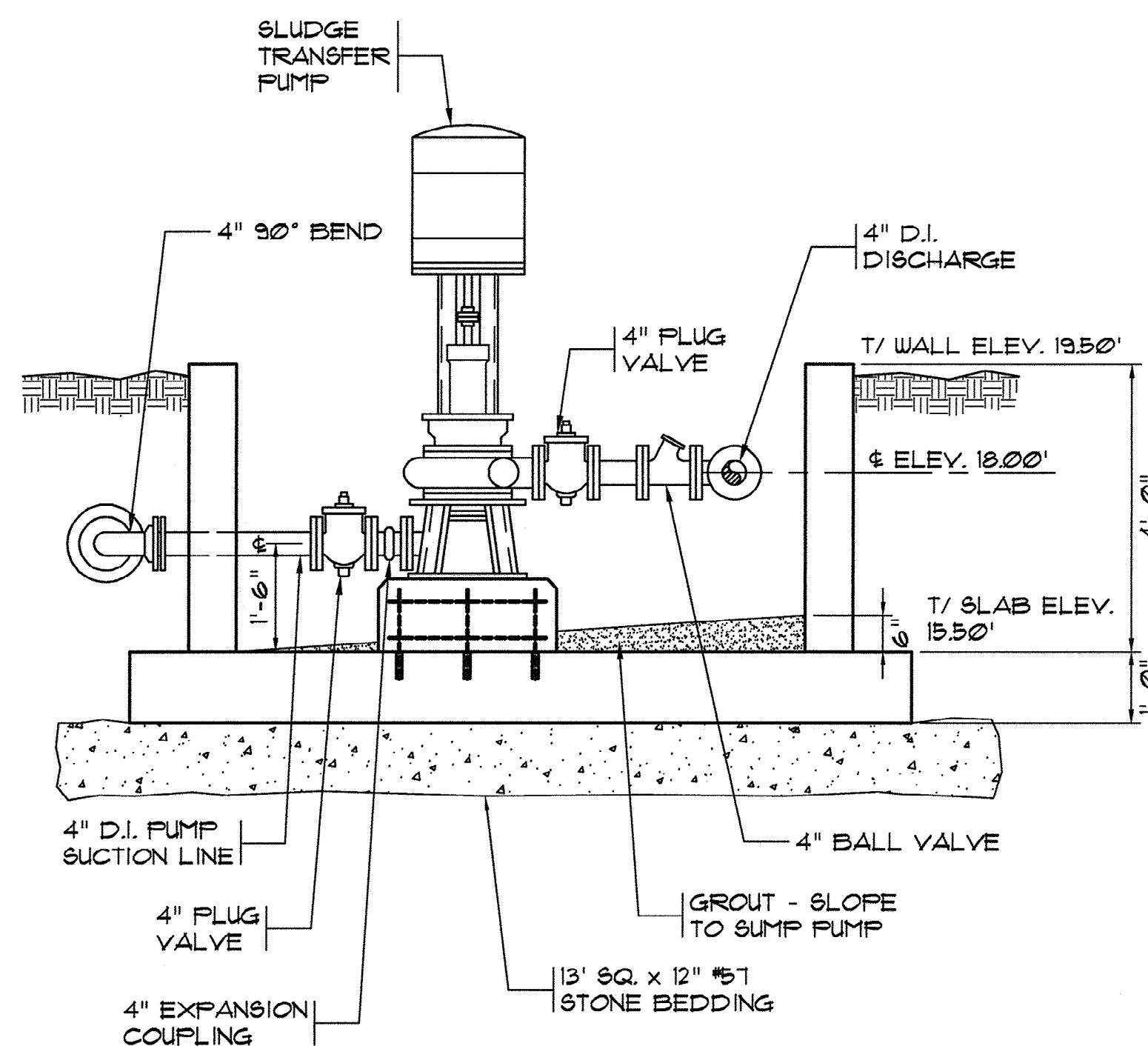
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51-014-007/17

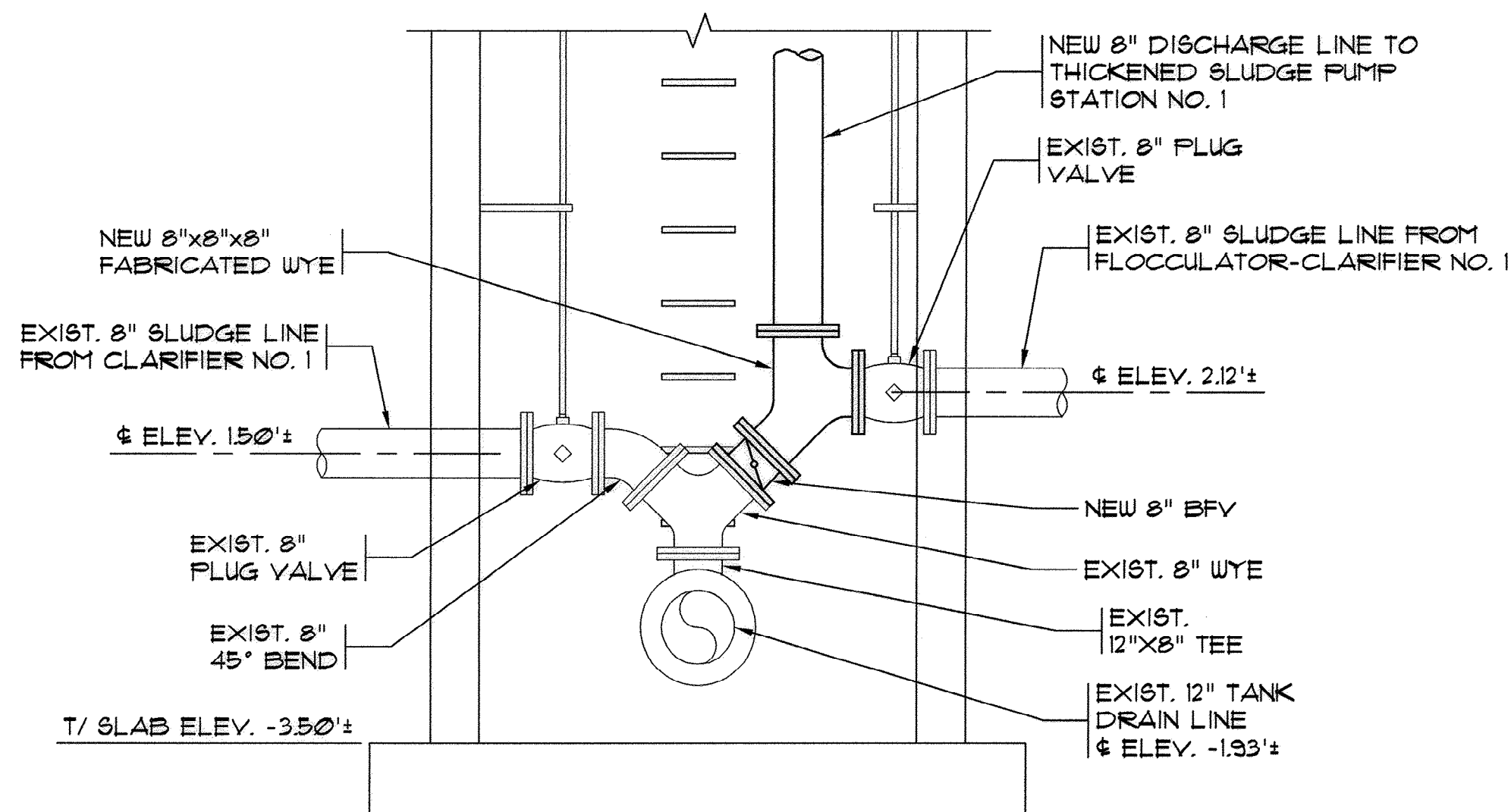
51-014-008117



THICKENED SLUDGE PUMP STATION NO. 1
LAYOUT
 SCALE: 1/2"=1'-0"



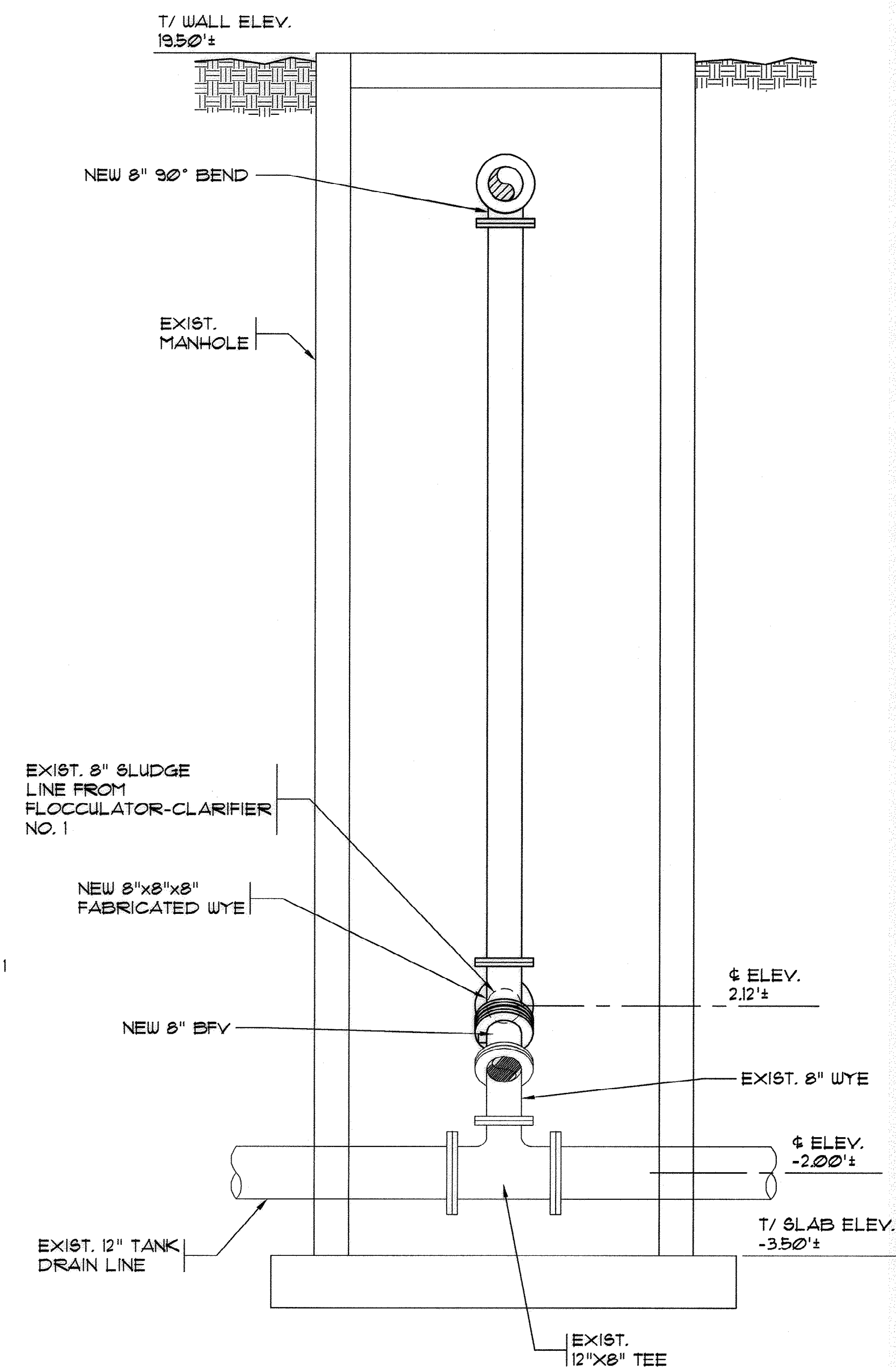
SECTION 1
 SCALE: 1/2"=1'-0"



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

NOTE:

ACCESS LADDER & SUMP PUMP NOT SHOWN FOR CLARITY IN SECTION.



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

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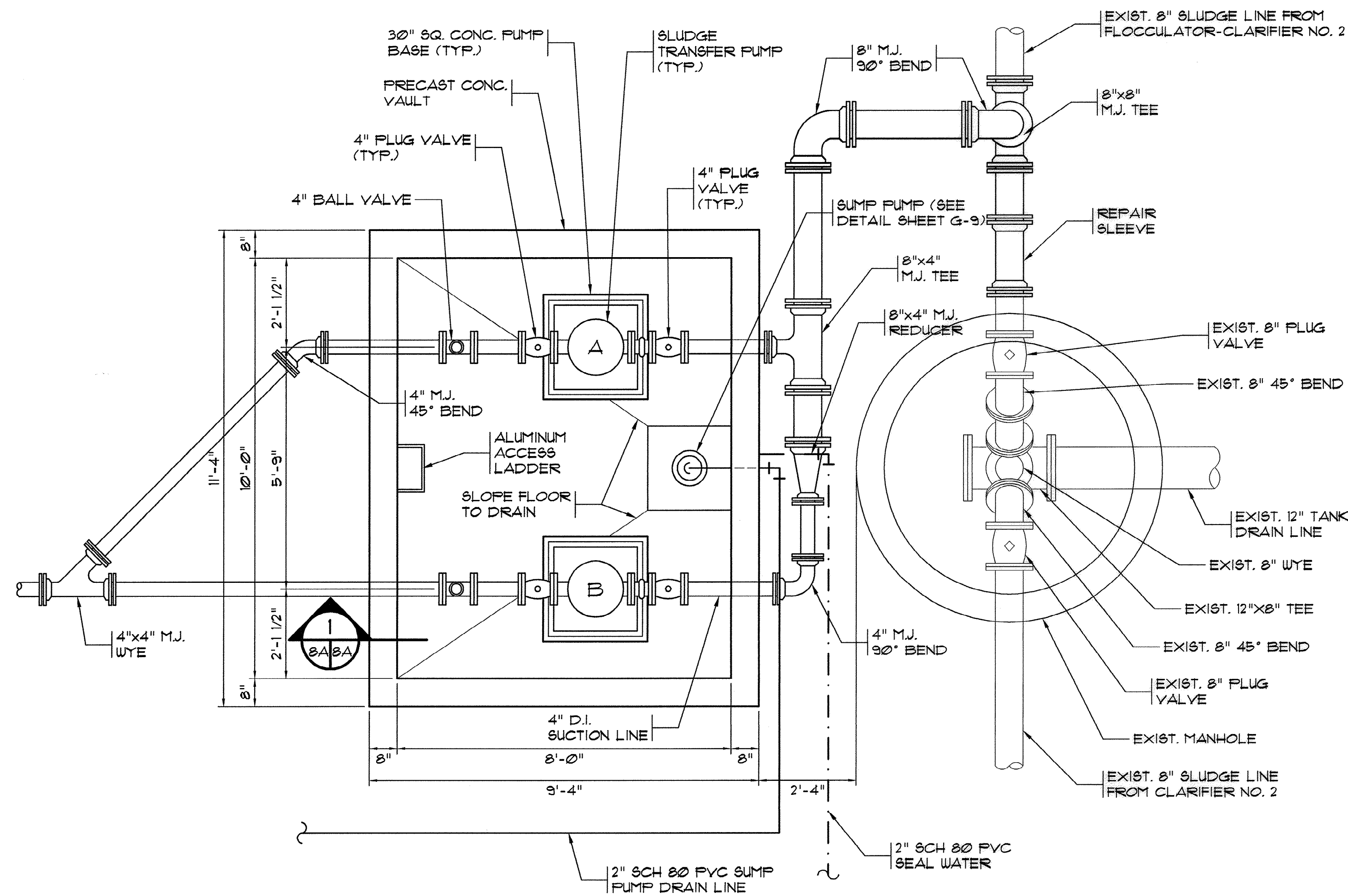
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THICKENED SLUDGE PUMP STATION NO. 1
LAYOUT & DETAILS

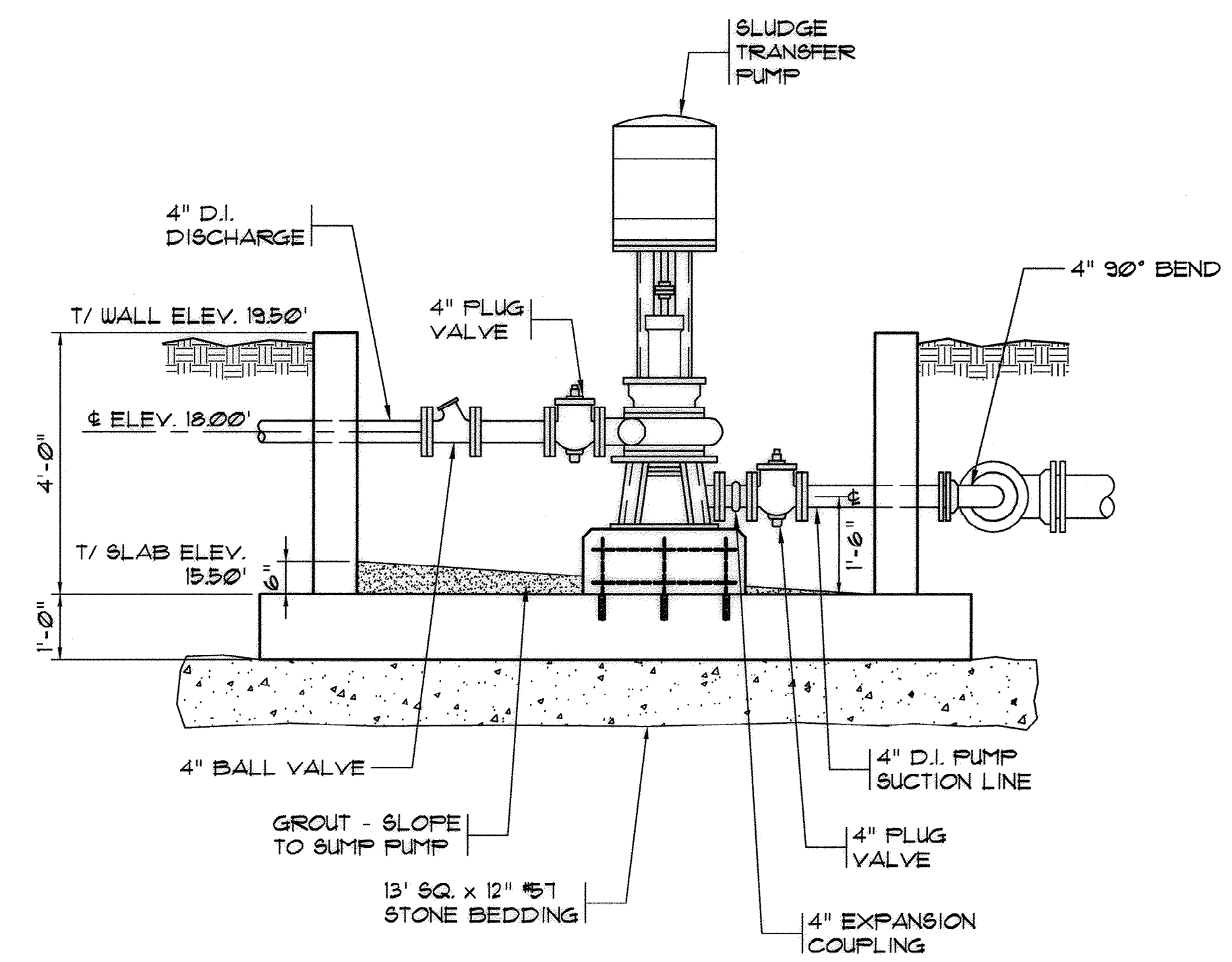
MYRTLE BEACH WWTP
PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA

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51-014-009|17



THICKENED SLUDGE PUMP STATION NO. 2
LAYOUT
 SCALE: 1/2"=1'-0"



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

NOTE:
 ACCESS LADDER & SUMP PUMP NOT
 SHOWN FOR CLARITY IN SECTION.

AS-BUILT

51-014-010/17

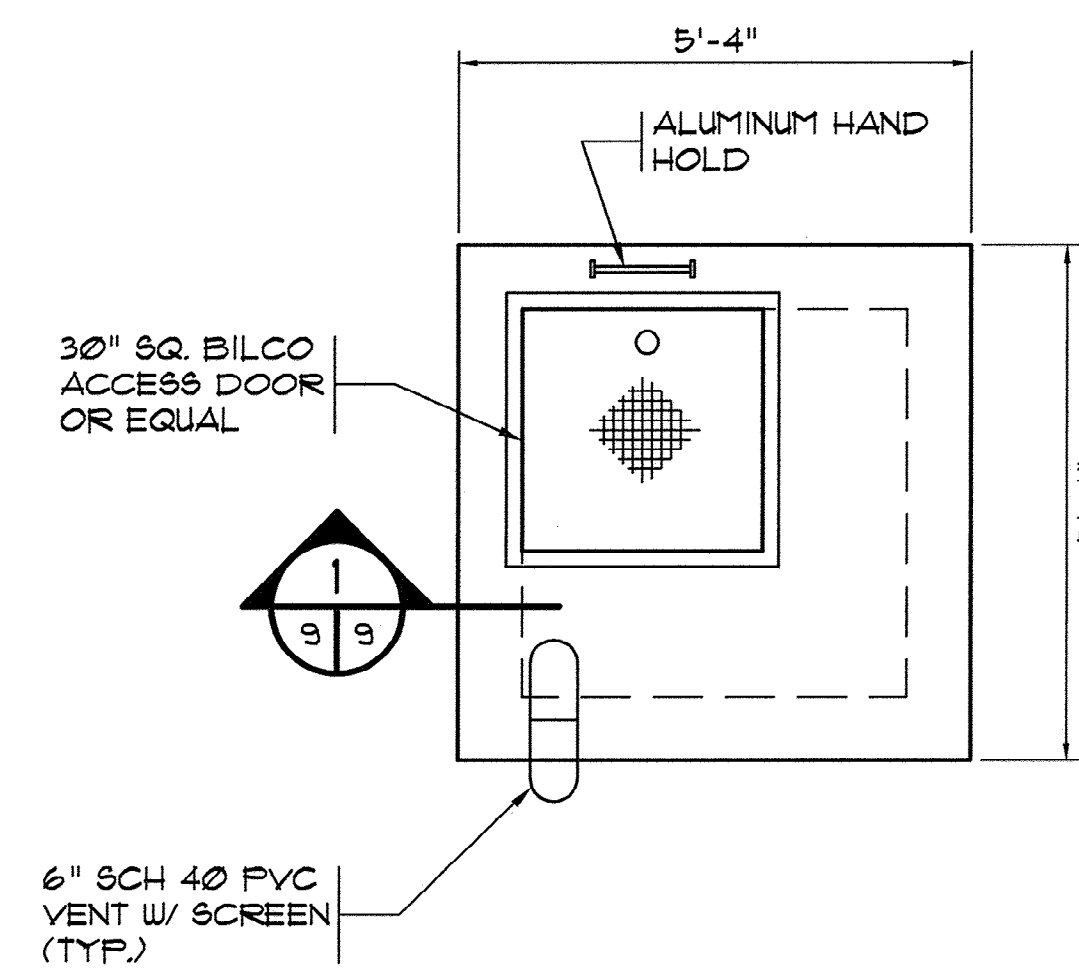
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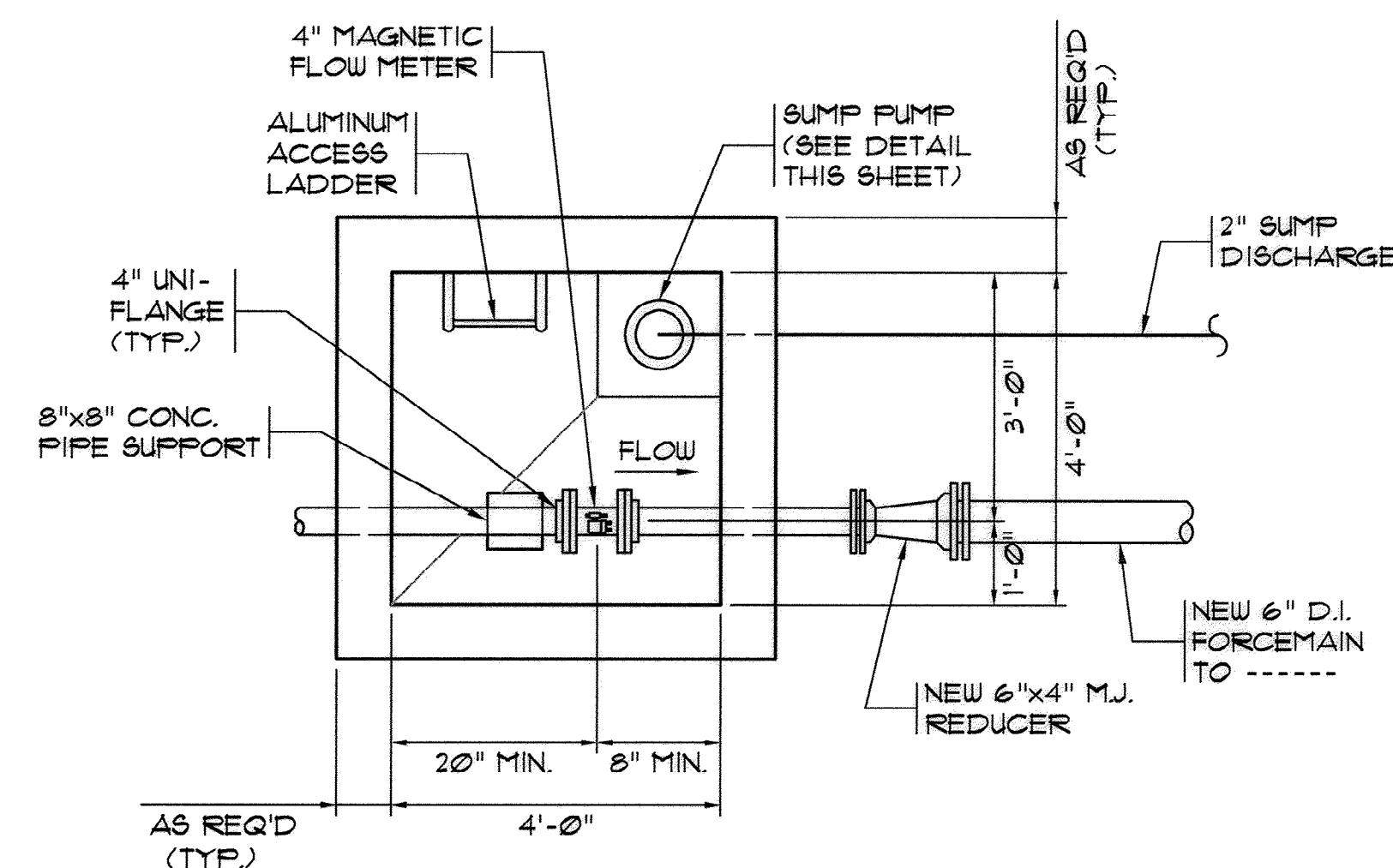
THICKENED SLUDGE PUMP STATION NO. 2
LAYOUT & DETAILS

MYRTLE BEACH WWTP
PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA

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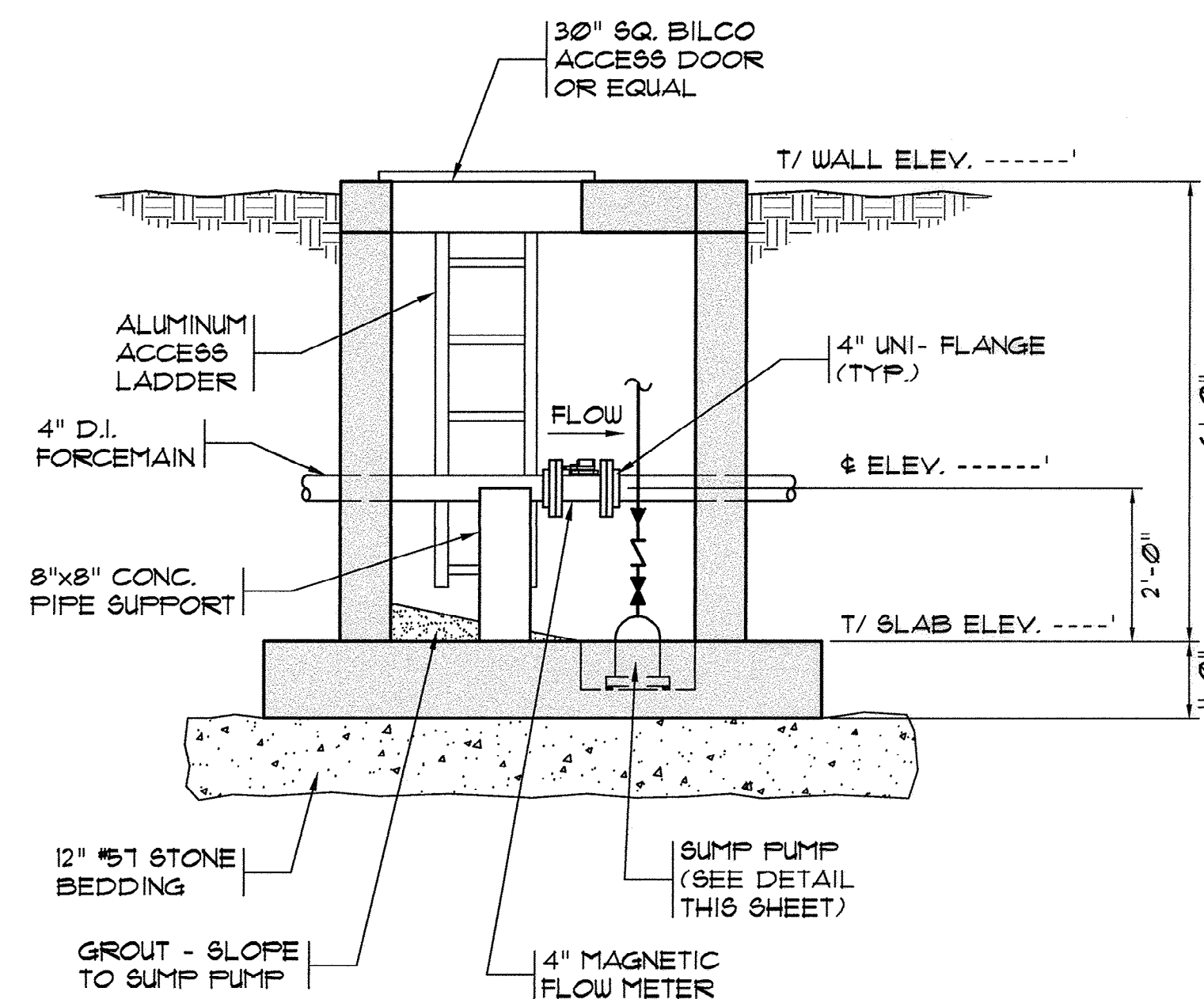


METER VAULT NO. 1
UPPER LAYOUT
SCALE: 1/2"=1'-0"

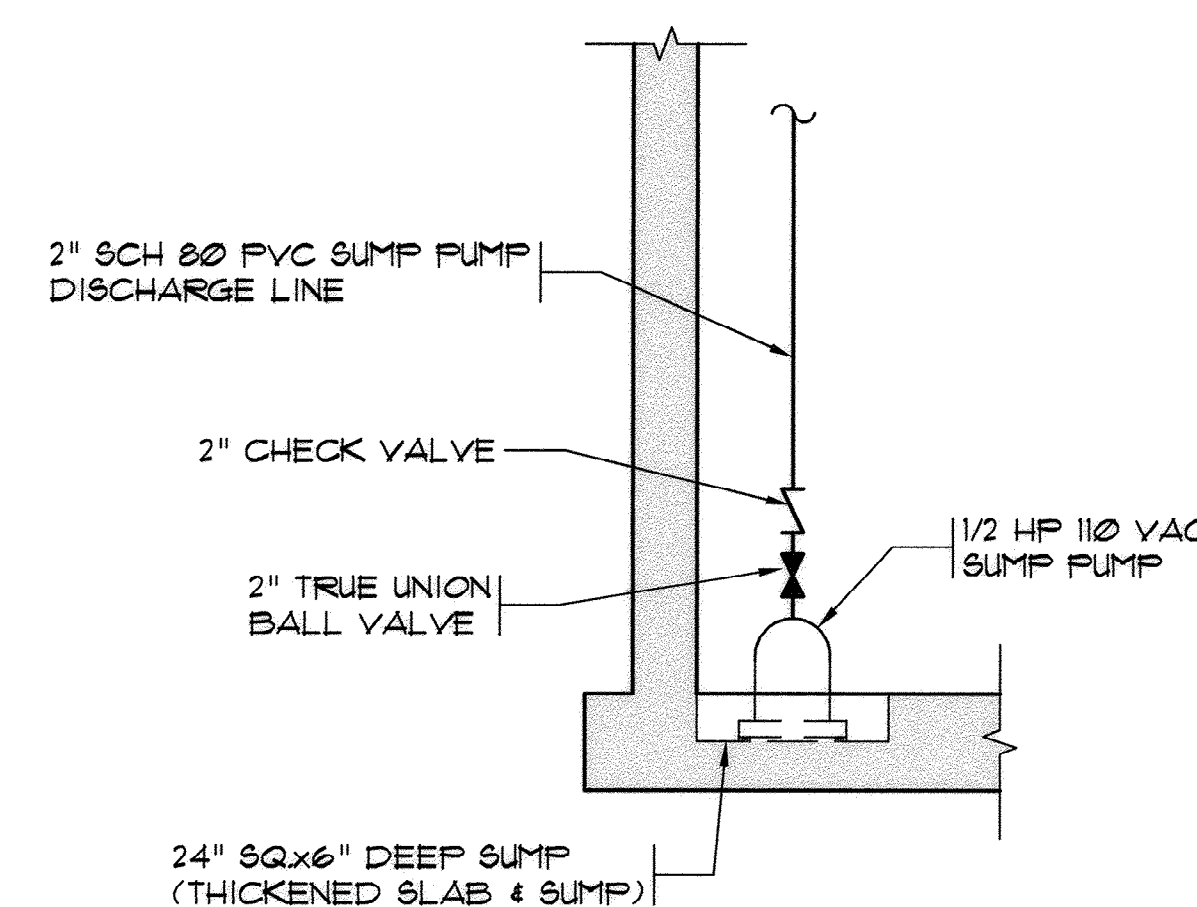


METER VAULT NO. 1
LOWER LAYOUT
SCALE: 1/2"=1'-0"

NOTE:
METER VAULT NO. 2 IS A
MIRROR IMAGE OF NO. 1. SEE
SITE PLAN FOR ORIENTATION.



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



SUMP PUMP DETAIL
N.T.S.

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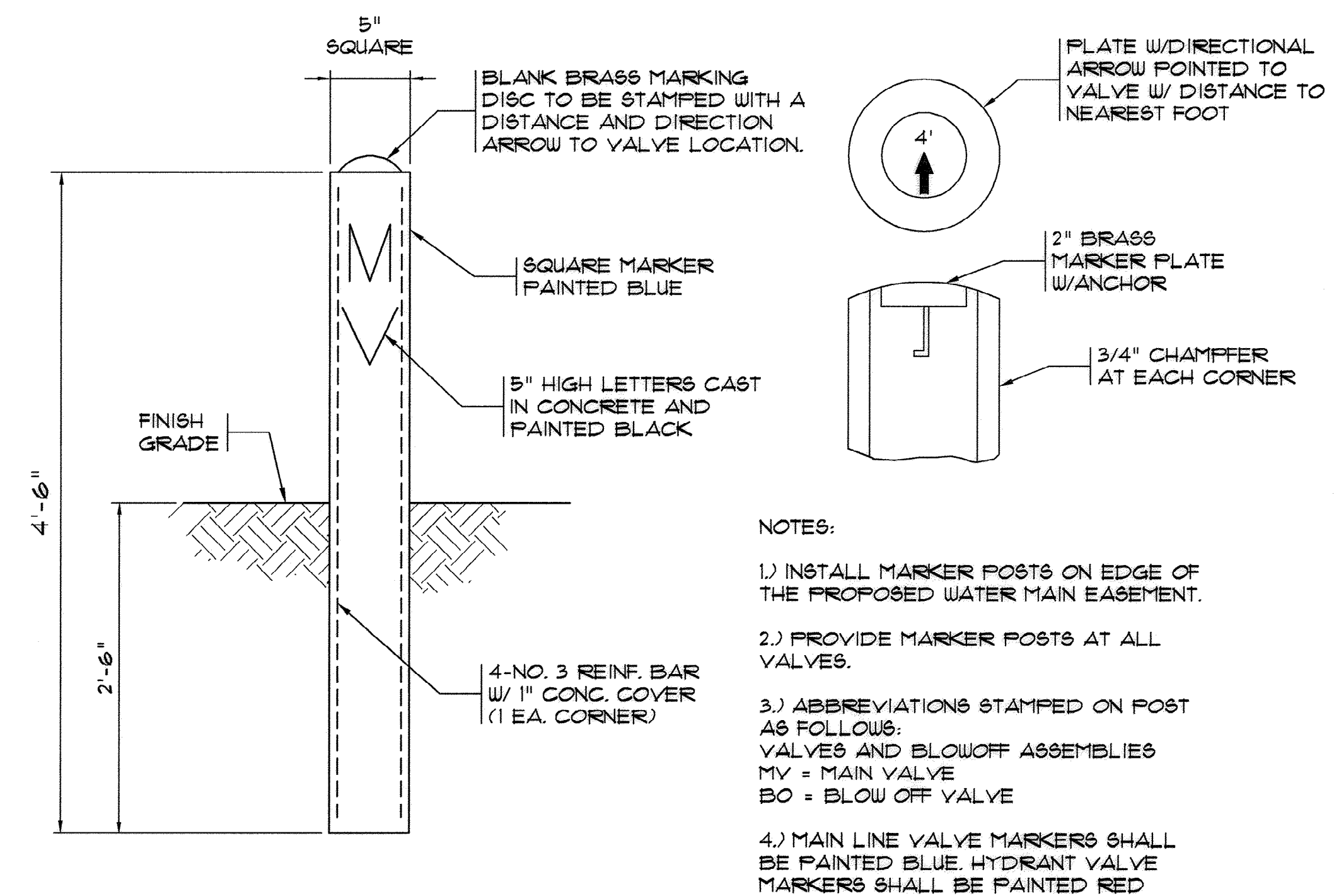
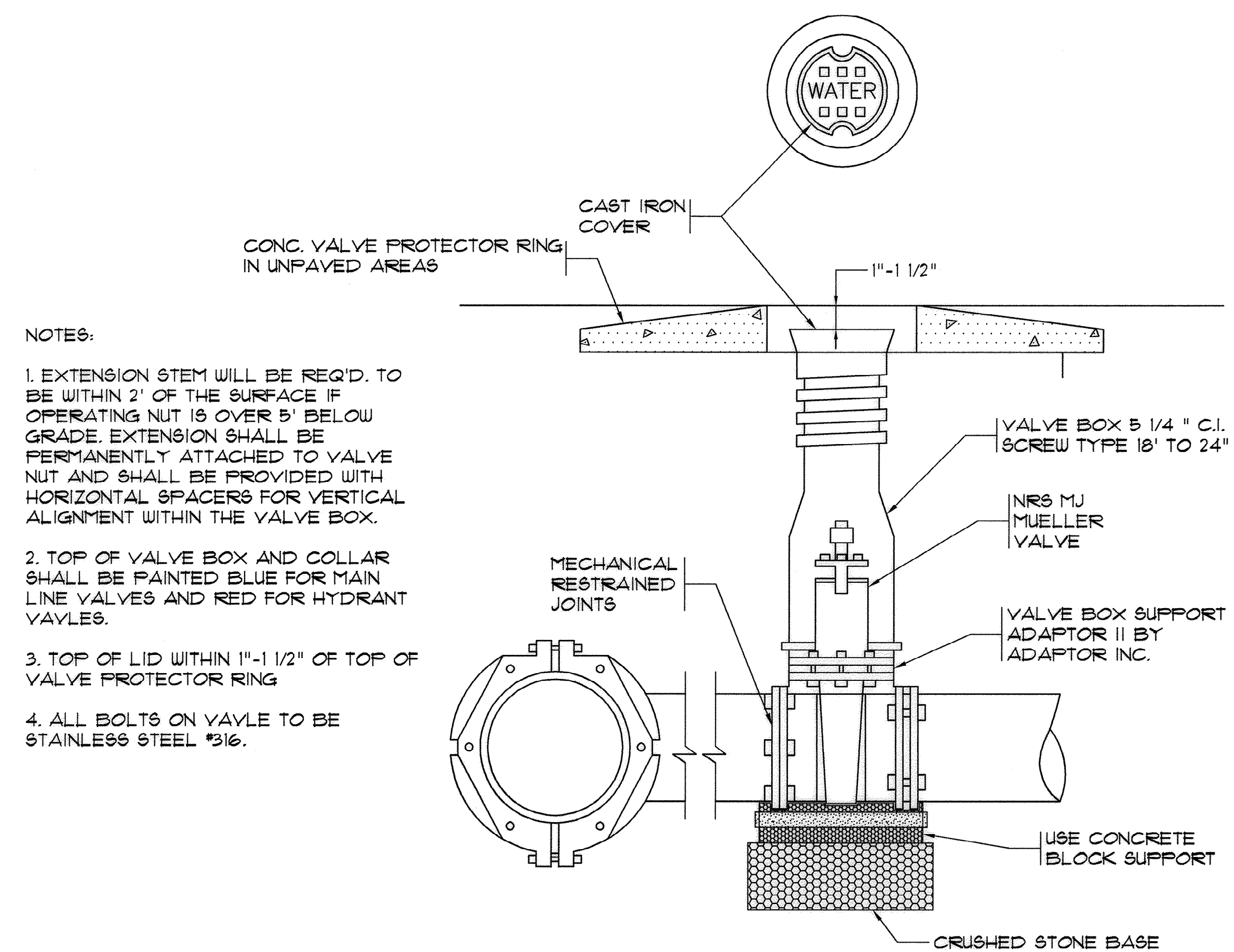
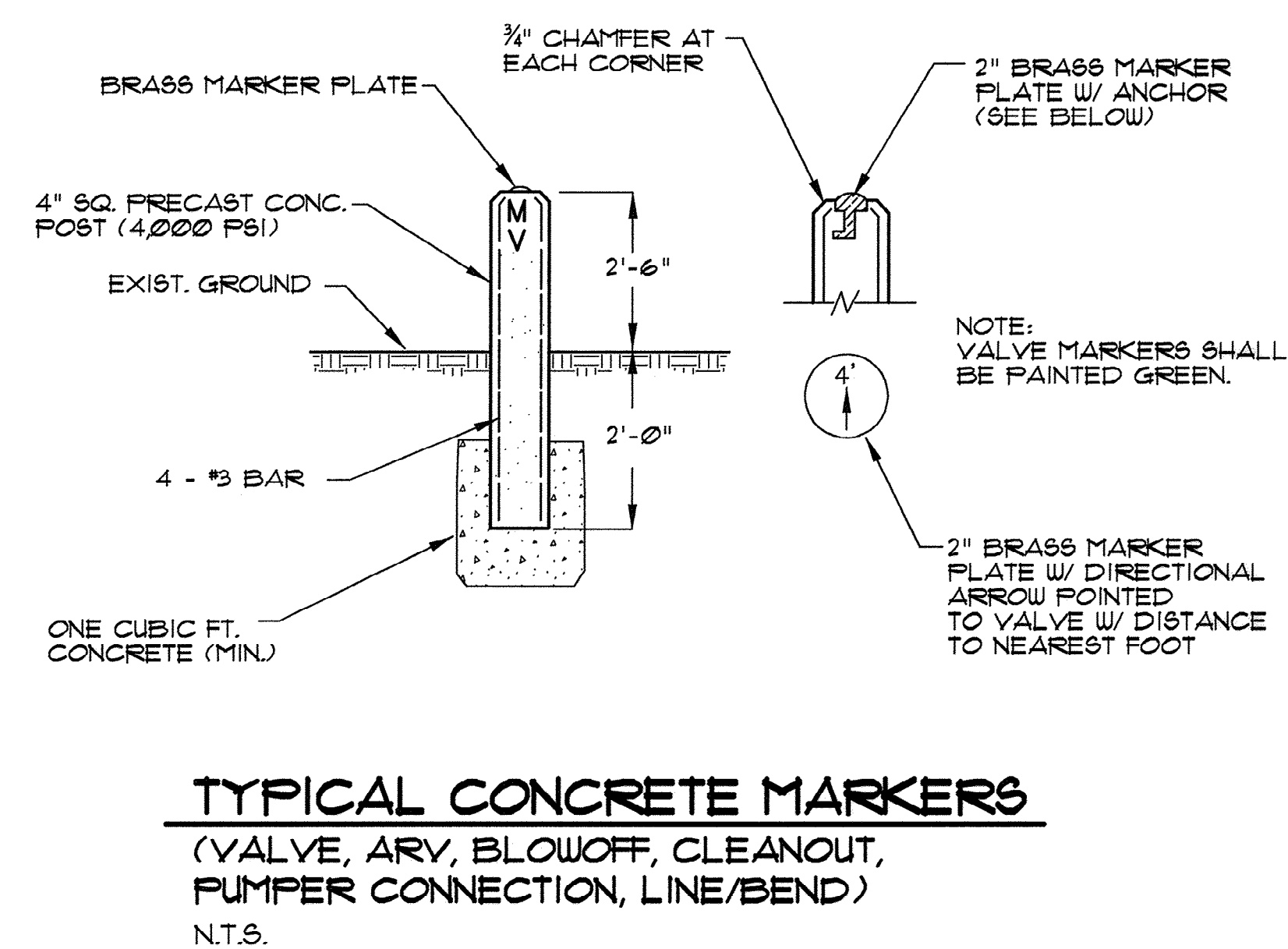
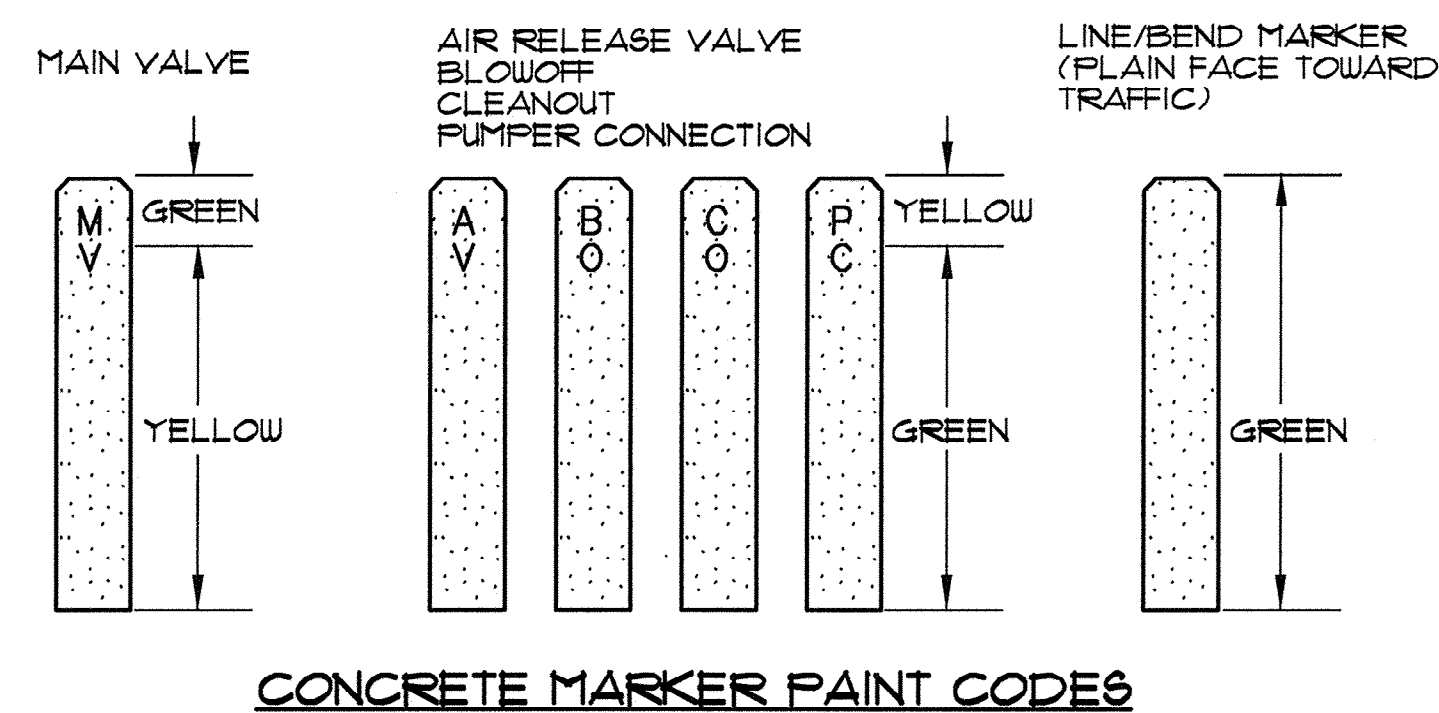
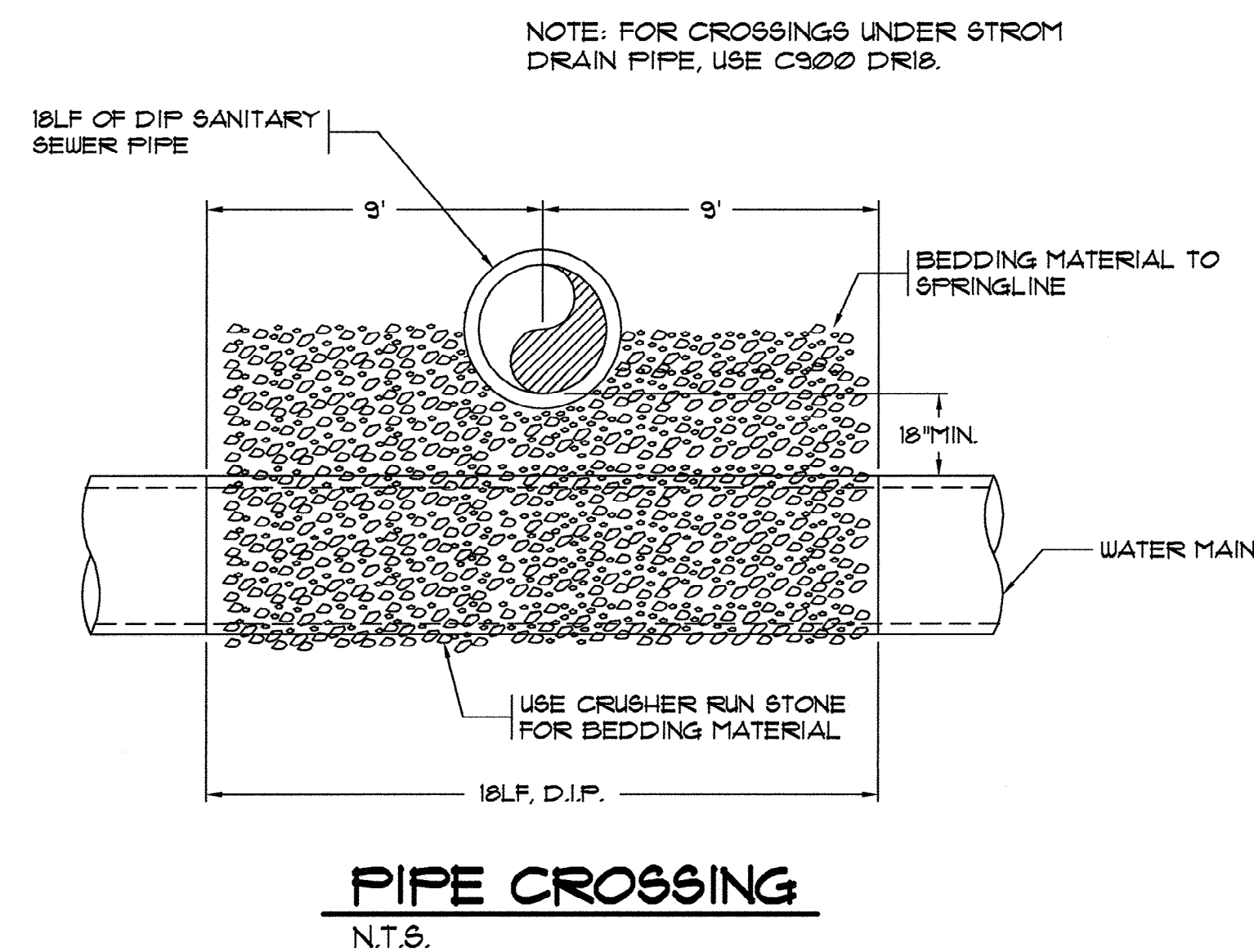
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METER VAULT NO. 1
LAYOUT & DETAILS

MYRTLE BEACH WWTP
PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA

Scale: AS SHOWN
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Drawn: ALR
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G-9
Of: Version: 5

51-014-011/17



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51-014-012/17

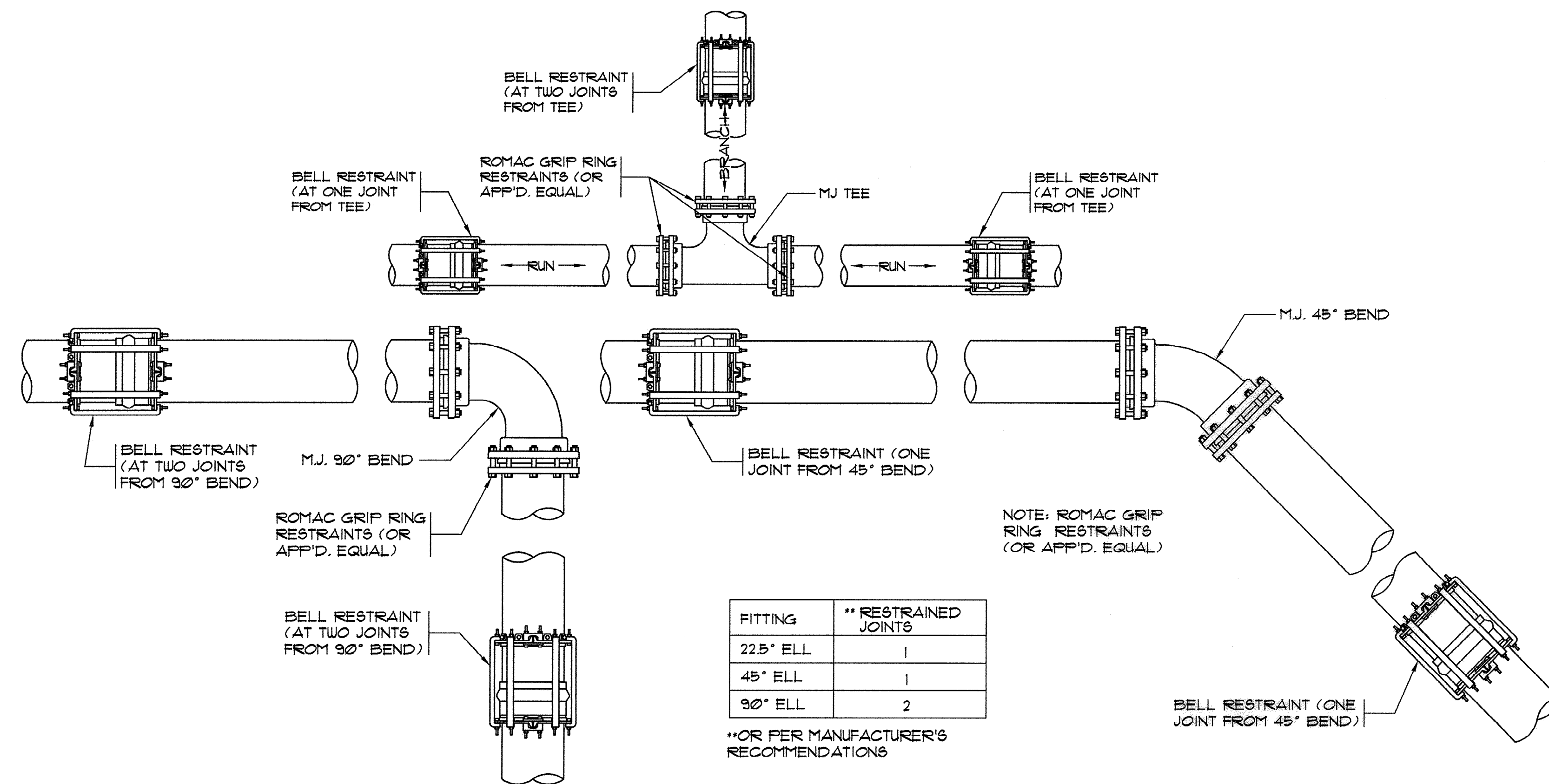
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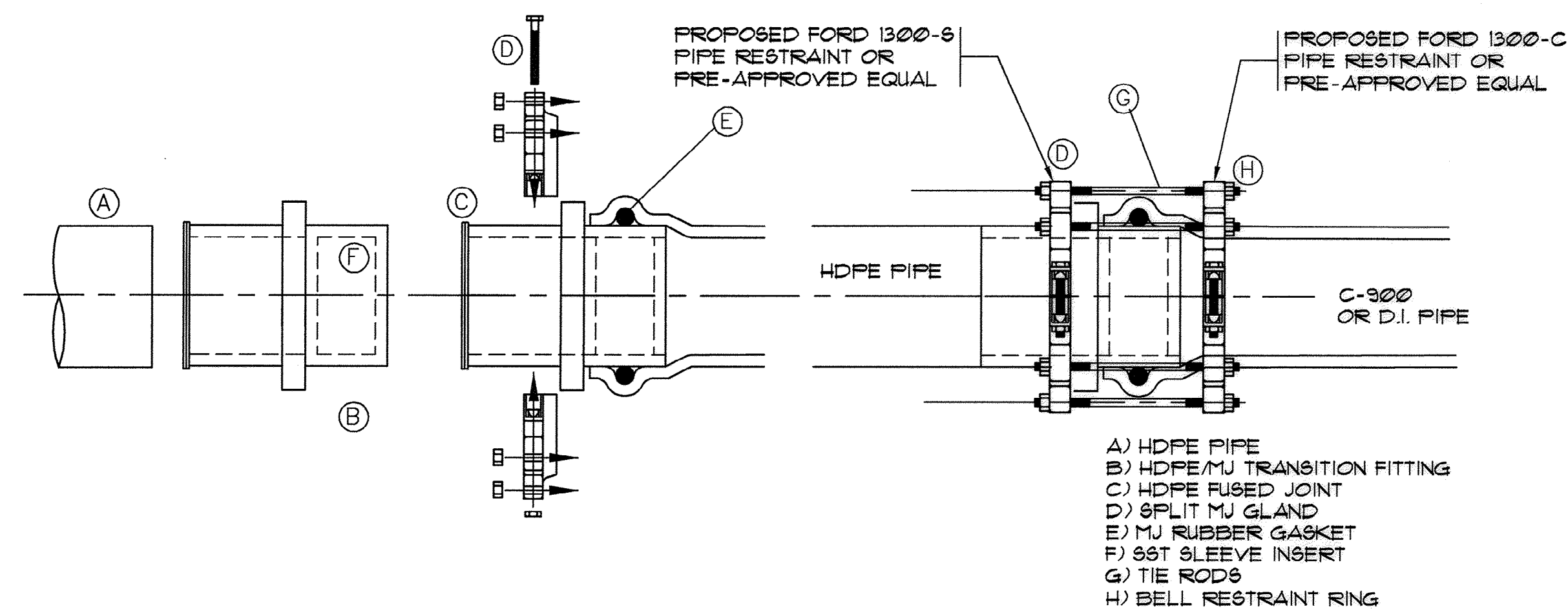
MISCELLANEOUS DETAILS

**MYRTLE BEACH WWTP
PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA**

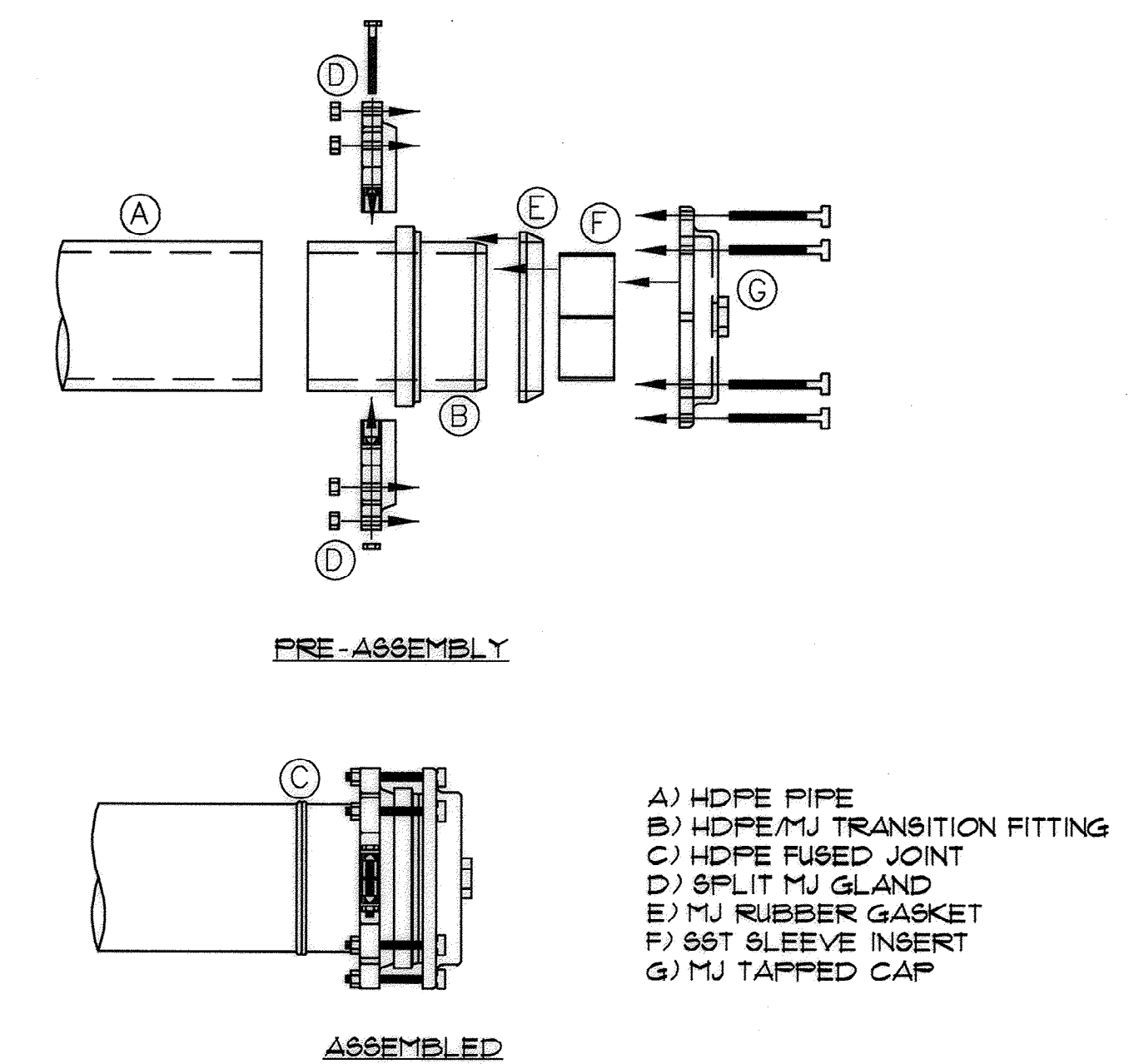
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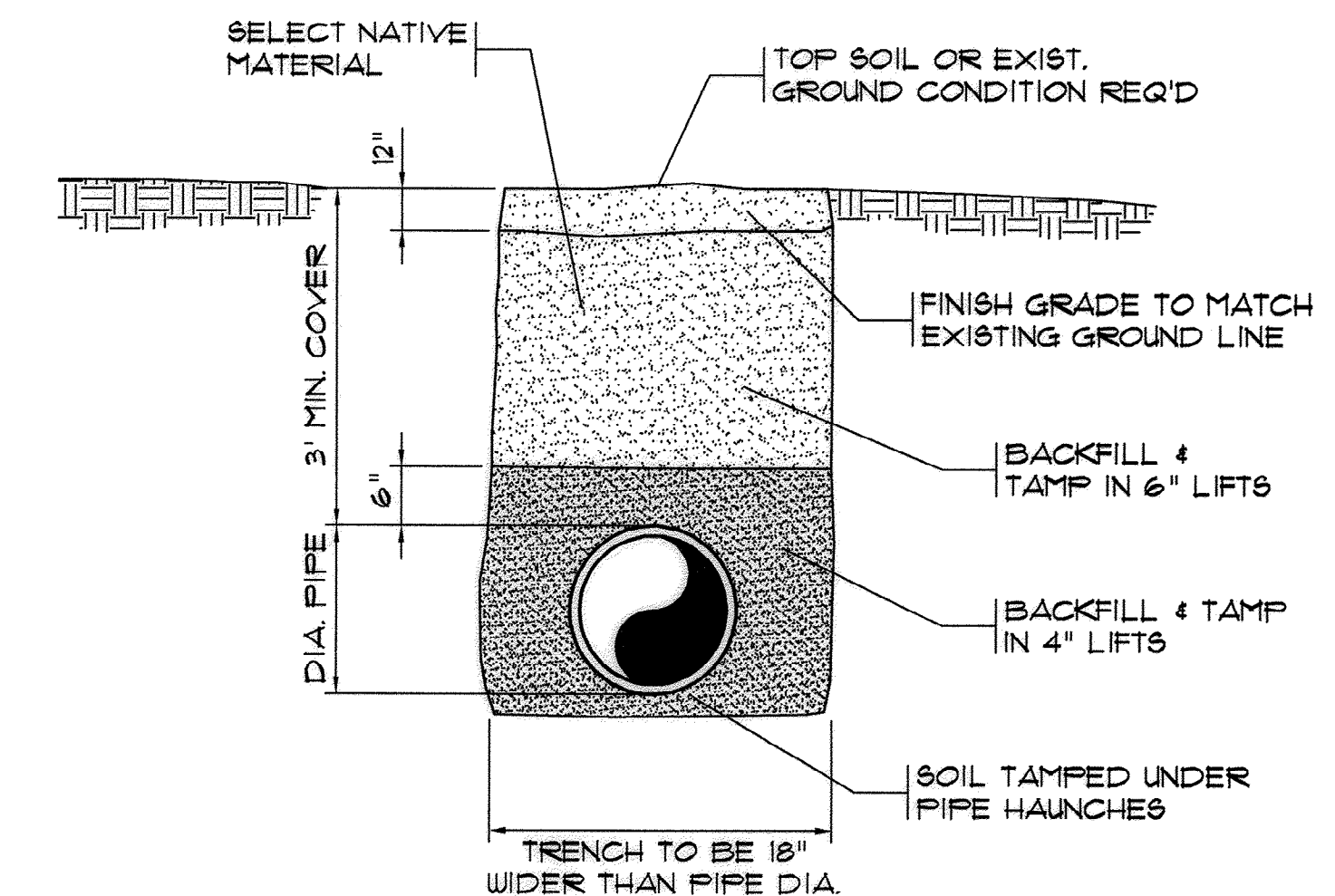
TYPICAL FITTING AND JOINT RESTRAINT
N.T.S.



HDPE/PVC TRANSITION ASSEMBLY
N.T.S.



PEMJ CAP ASSEMBLY
N.T.S.



TYPICAL PIPE BEDDING DETAIL
N.T.S.

AS-BUILT

MYRTLE BEACH WWTP
PIPING MODIFICATIONS
HORRY COUNTY, SOUTH CAROLINA

MISCELLANEOUS DETAILS

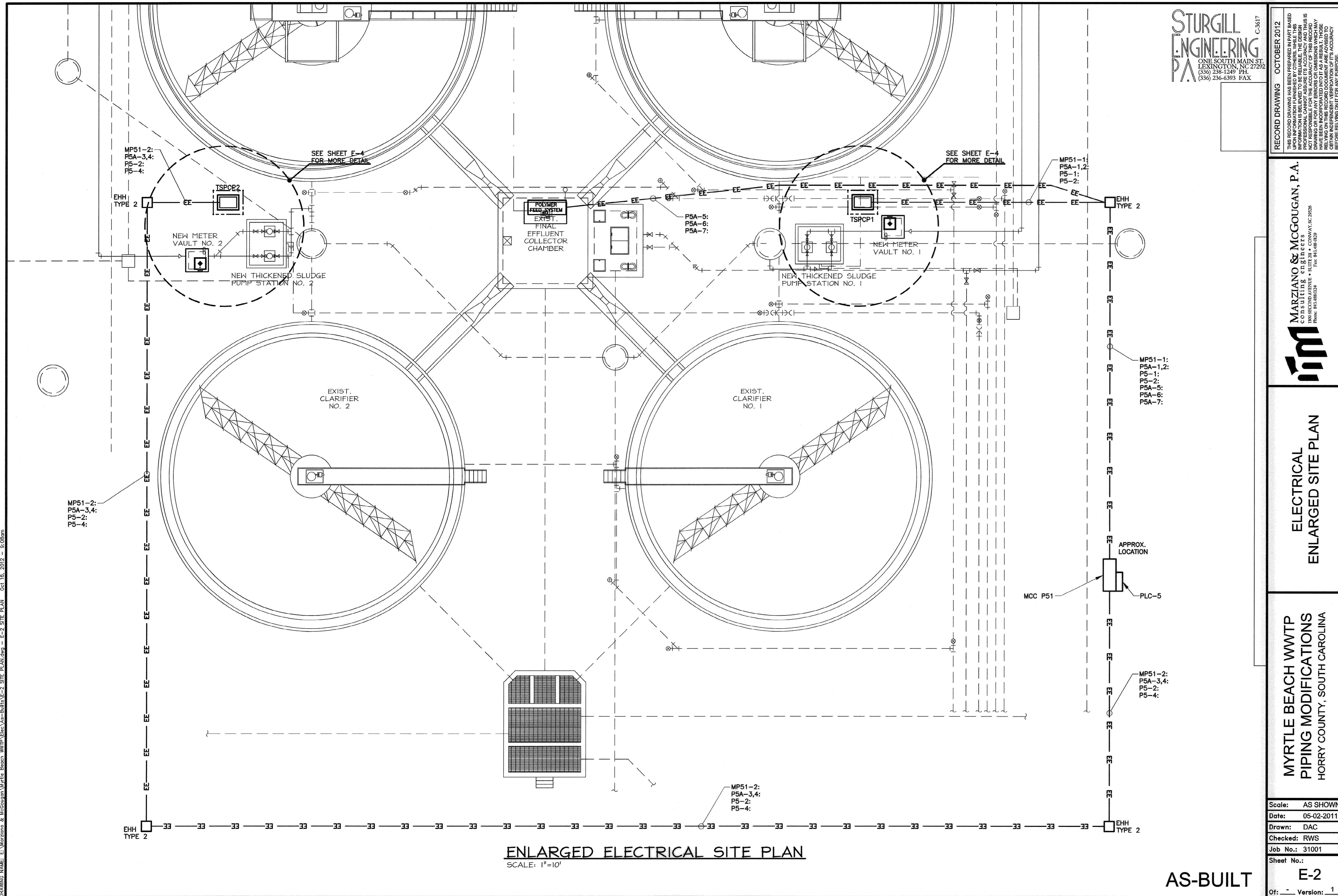
im MARZIANO & MCGOUGHAN, P.A.
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Drawn: ALR
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Job No.: 31001
Sheet No.:
G-11
Of: Version: 5

51-014-013|17

DRAWING NAME: E: Marziano & McGougan, Myrtle Beach, WWTP Elec, As-Built E-2 SITE PLAN.dwg - E-2 SITE PLAN - Oct 16, 2012 - 9:08am



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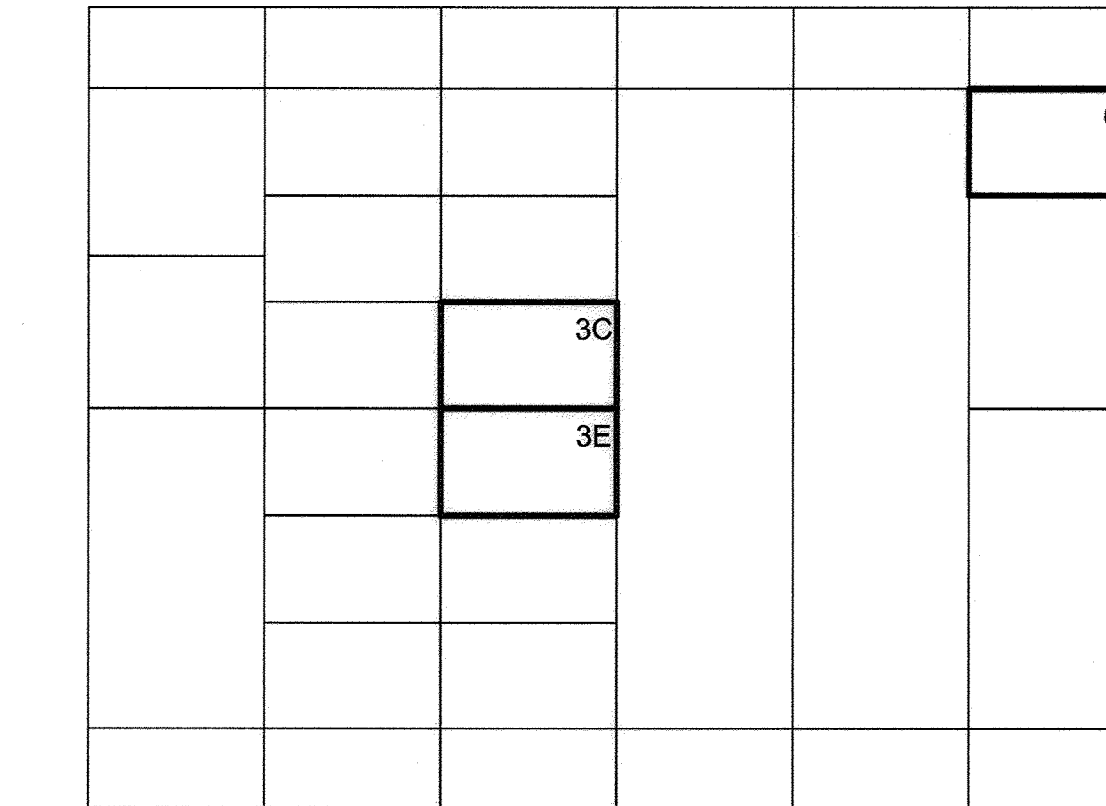
**ELECTRICAL
ENLARGED SITE PLAN**

**MYRTLE BEACH WWTP
PIPING MODIFICATIONS
Horry County, South Carolina**

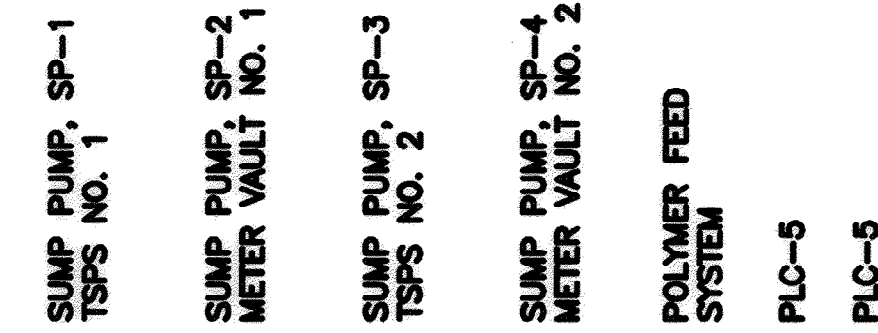
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Date:	05-02-2011
Drawn:	DAC
Checked:	RWS
Job No.:	31001
Sheet No.:	E-2
Of: -	Version: 1

AS-BUILT

51-014-015/17



EXISTING MCC P51 FRONT ELEVATION
NOT TO SCALE



EXISTING MOTOR CONTROL CENTER, MCC P51 (PARTIAL)
NOT TO SCALE



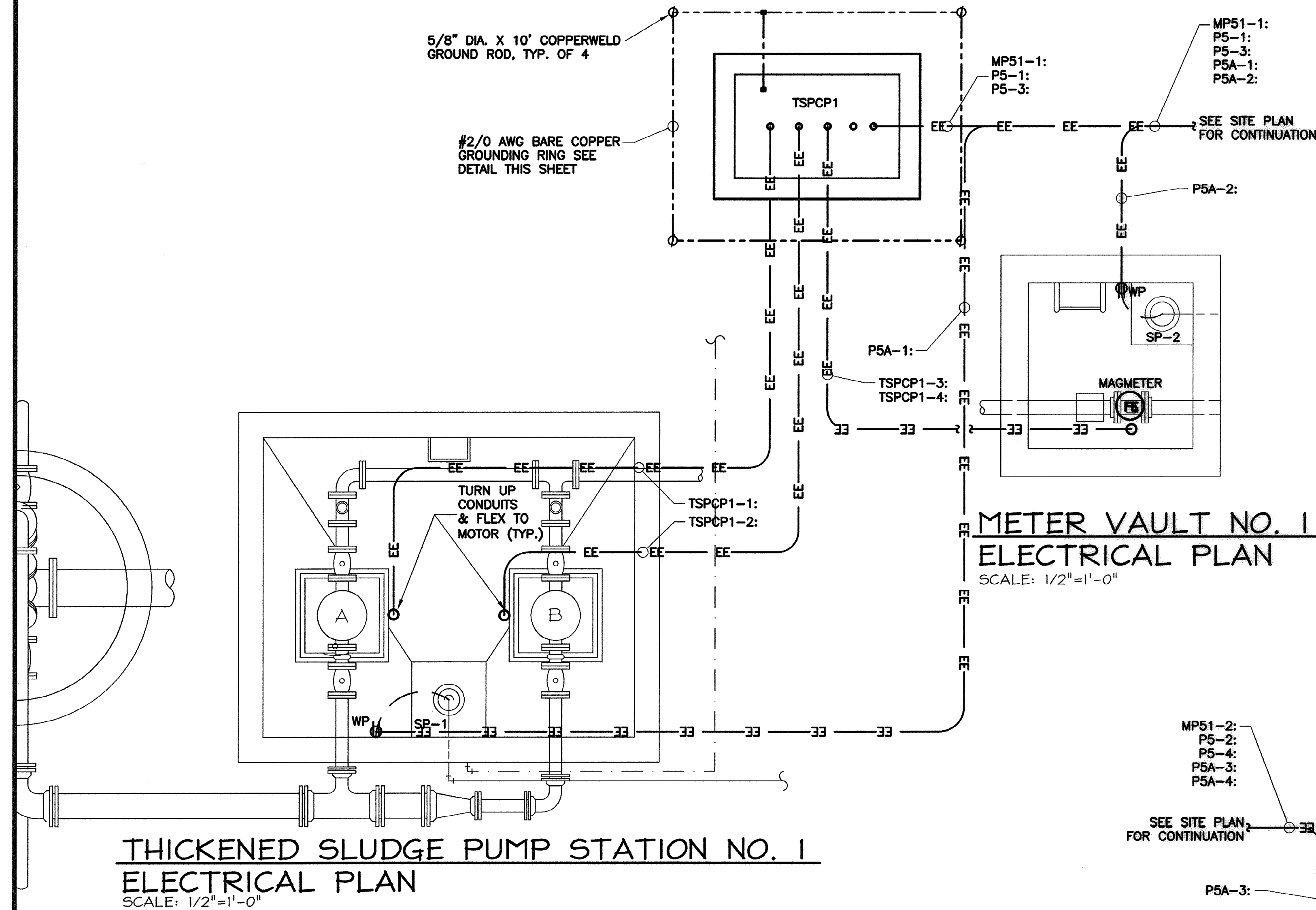
- NOTES:**
1. SEE SHEET E-1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
 2. CONTRACTOR TO VERIFY PAD SIZE WITH PANEL SUPPLIER PRIOR TO POURING PAD.

- NOTES:**
- 1. SEE SHEET E1.0 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.**
 - 2. MCC P51 IS A GENERAL ELECTRIC 8000 LINE CAT. NO. 474X0291602, DIAG. NO. 229B71142.**
 - 3. CONTRACTOR SHALL PROVIDE NEW 3P-60A 42 KAIC CIRCUIT BREAKERS IN THE MCC P51. MODIFY DOOR AND OPERATING HANDLE AS REQUIRED.**
 - 4. COORDINATE EXACT LOCATIONS OF NEW BREAKERS IN MCC WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.**
 - 5. ALL EXISTING EQUIPMENT NOT INDICATED.**
 - 6. COORDINATE CONNECTION OF SUMP PUMPS AND POLYMER SYSTEM IN PANEL 5A WITH OWNER. CONTRACTOR MAY USE EXISTING UNUSED CIRCUIT BREAKERS.**

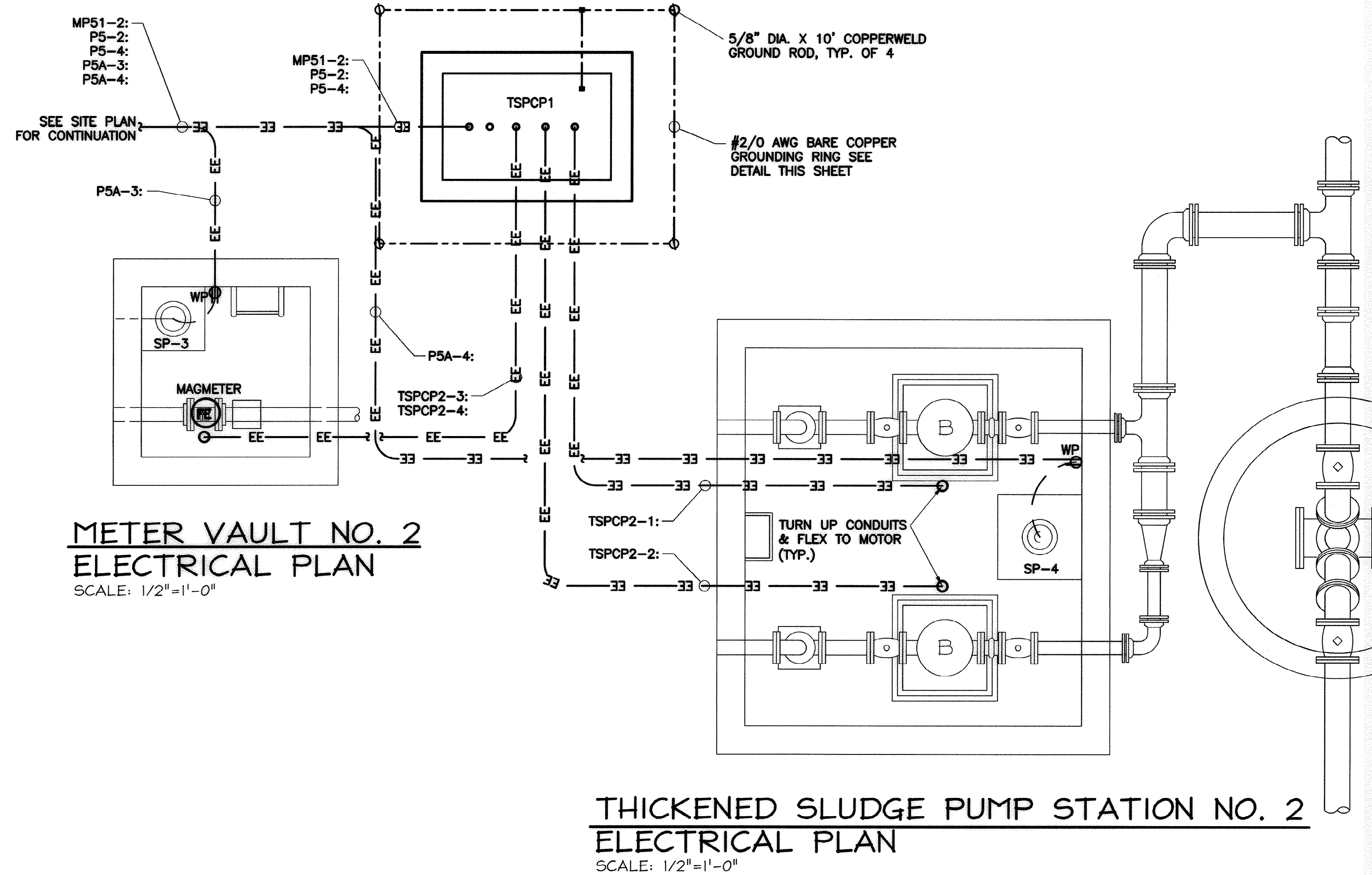
AS-BUILT

51-014-016117

DRAWING NAME: E:\Marziano & McGougan\Myrtle Beach WWTP\Elec\As-Built\A-E-4TSPS1-METER VAULT.dwg - E-4 Oct 16, 2012 - 9:02am



NOTES:
1. SEE SHEET E-1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.



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ELECTRICAL
THICKENED SLUDGE P.S. NO. 1
METER VAULT NO. 1
AND MISC. DETAILS

MYRTLE BEACH WWTP
PIPING MODIFICATIONS
Horry County, South Carolina

Scale: AS SHOWN
Date: 05-02-2011
Drawn: DAC
Checked: RWS
Job No.: 31001
Sheet No.:
E-4
Of: - Version: 1

AS-BUILT

51-014-017/17