OCONEE JOINT REGIONAL SEWER AUTHORITY

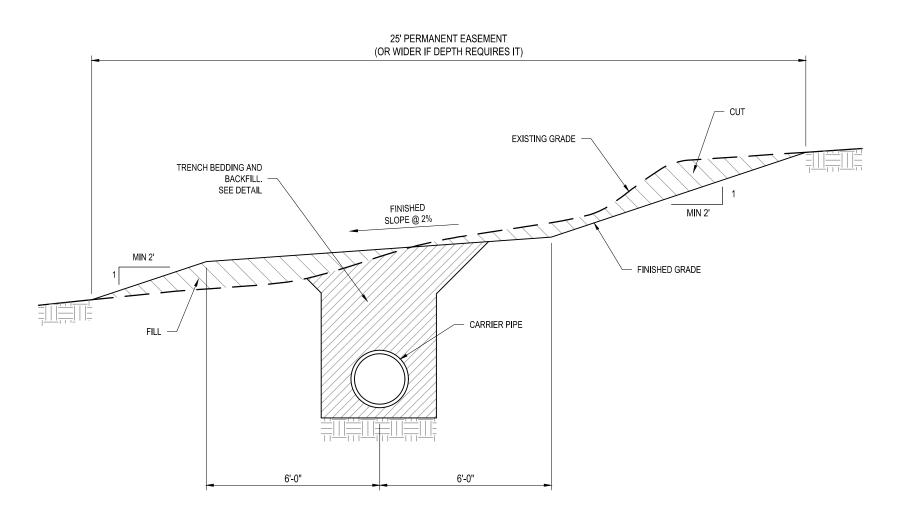


STANDARD DETAILS

Sheet List Table		
Sheet Number	Sheet Title	
	COVER	
D000	SHEET INDEX	
D001	EASEMENT GRADING	
D002	GRAVITY SEWER TRENCH & BEDDING	
D003	GRAVITY SEWER TRENCH & BEDDING - WET LOCATIONS	
D004	ASPHALT PAVEMENT REPLACEMENT AT PIPE TRENCH	
D005	STREAM CROSSING	
D006	LONG SPAN STREAM CROSSING	
D007	STREAM BANK PROTECTION	
D008	STANDARD MANHOLE	
D009	DOGHOUSE MANHOLE	
D010	INSIDE DROP MANHOLE	
D011	OUTSIDE DROP MANHOLE	
D012	PRECAST MANHOLE FOR AERIAL GRAVITY SEWER	
D013	SHALLOW PRECAST MANHOLE	
D014	PIPE CONNECTION AT MANHOLE	
D015	STANDARD MANHOLE FRAME & COVER	
D016	HEAVY DUTY MANHOLE COVER	
D017	HEAVY DUTY MANHOLE COVER WITH CAM LOCK	
D018	HEAVY DUTY MANHOLE FRAME	
D019	FORCE MAIN TRENCH & BEDDING	
D020	HORIZONTAL JOINT RESTRAINT	
D021	VERTICAL JOINT RESTRAINT	
D022	PIPE CASING UNDER PAVED AREAS	
D023	SEWER LINE CROSSING WATER LINE	
D024	SEWER LINE CROSSING STORM DRAINAGE	
D025	CONCRETE ENCASEMENT	

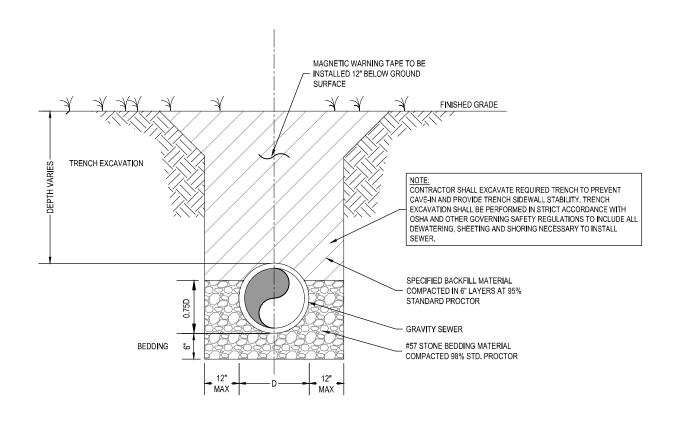
D026	VALVE BOX
D027	AIR RELEASE VALVE
D028	PIPELINE & VALVE MARKER
D029	FORCE MAIN CONNECTION AT MANHOLE
D030	SEWER LATERAL AND CLEAN OUT
D031	SEWER LATERAL ON EXISTING GRAVITY SEWER
D032	SADDLE CONNECTION FOR LIVE WASTE WATER MAINS
D033	SADDLE CONNECTION FOR LIVE STREAM WASTEWATER MAINS
D034	STEEL DOUBLE GATE FOR EASEMENTS
FOG-1	TYPICAL GREASE TRAP PLUMBING PLAN
FOG-2	FATS, OILS & GREASE INTERCEPTOR
FOG-3	OIL/WATER SEPARATOR
PS-1	TYPICAL SUBMERSIBLE PUMP STATION SITE PLAN
PS-2	TYPICAL SUCTION LIFT PUMP STATION SITE PLAN
PS-3	GRINDER PUMP STATION SITE PLAN
PS-4	SUBMERSIBLE PUMP STATION TOP PLAN & PIPING PLAN
PS-5	SUBMERSIBLE PUMP STATION ELEVATION
PS-6	SUCTION LIFT PUMP STATION PLAN
PS-7	SUCTION LIFT PUMP STATION ELEVATION
PS-8	MAGMETER VAULT
PS-9	TYPICAL BYPASS
PS-10	TYPICAL YARD HYDRANT
PS-11	STANDARD CHAIN LINK FENCING
S-1	CANOPY AND ELECTRICAL PAD PLAN AND ELEVATIONS
E-1	DUPLEX PUMP STATION ELECTRICAL STANDARDS
E-2	YARD LIGHT
E-3	PUMP STATION ONE-LINE DIAGRAM
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OCONEE JOINT REGIONAL SEWER AUTHORITY		
INDEX SHEET		
	DATE:	DRAWING NO.:
	06/2023	D 000
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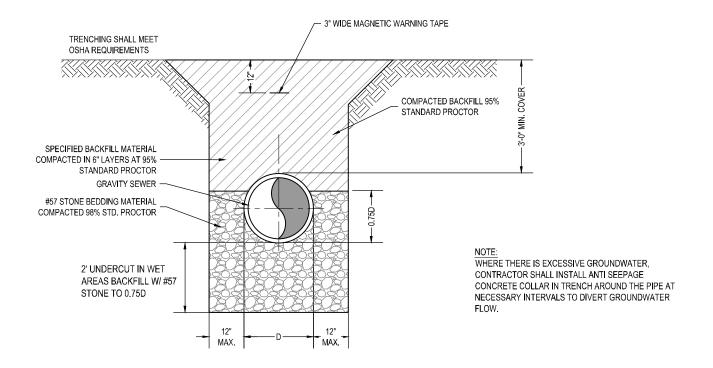
EASEMENT GRADING

OCONEE JOINT REGIONAL SEWER AUTHORITY		
EASEMENT GRADING		
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GRAVITY SEWER TRENCHING & BEDDING

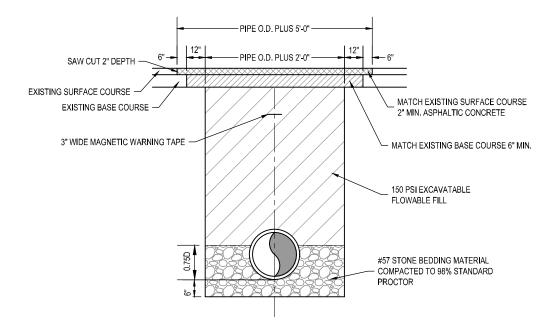




TRENCH BEDDING FOR PIPE IN WET LOCATIONS

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY GRAVITY SEWER TRENCHING & BEDDING - WET LOCATIONS DATE: 06/2020 D 003 REVISED: SCALE: NTS



ASPHALT PAVEMENT REPLACEMENT AT PIPE TRENCH

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

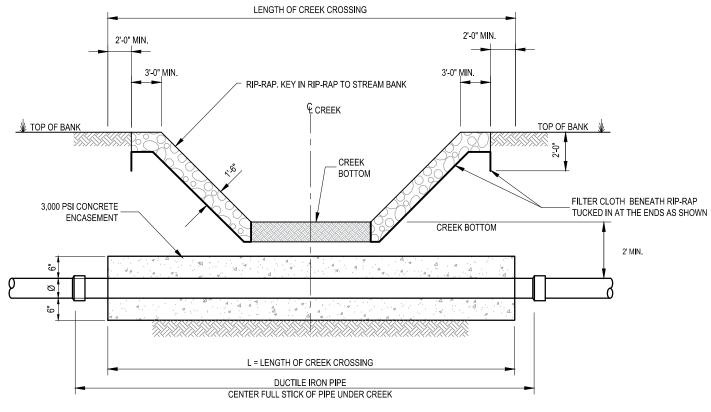
ASPHALT PAVEMENT REPLACEMENT AT PIPE TRENCH

DATE: DRAWING NO.:

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06/2020	D 004

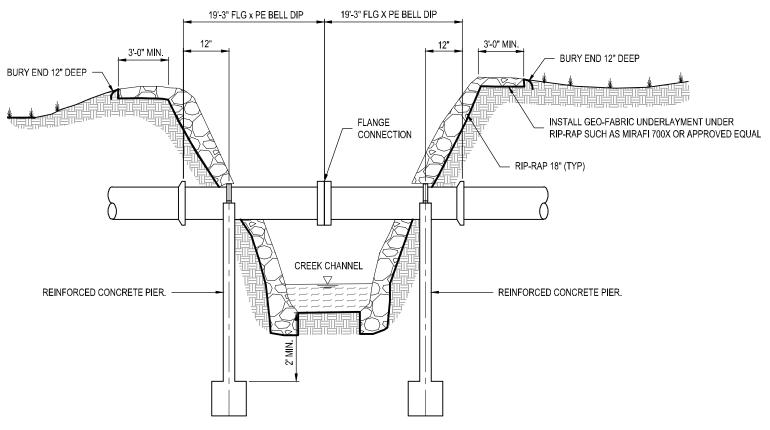
REVISED: SCALE:



1. PLACE MINIMUM 2" THICKNESS OF GRAVEL SUB-BASE BETWEEN FABRIC AND RIP-RAP.

STREAM CROSSING

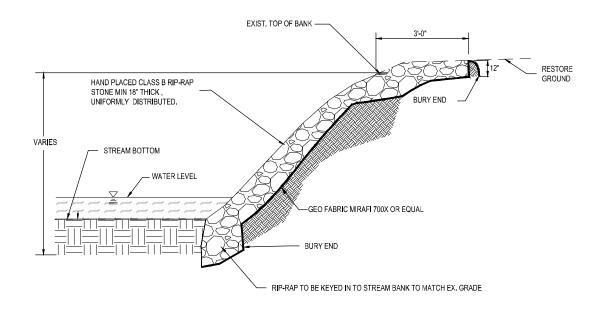
OCONEE JOINT REGIONAL SEWER AUTHORITY		
STREAM CROSSING		
	DATE:	DRAWING NO.:
	06/2020	D 005
OJRSA	REVISED:	SCALE: NTS



- 1. NO PIERS SHALL BE PLACED IN NORMAL FLOW OF CREEK.
- ANY DESIGNS DEVIATING FROM THIS DETAIL MUST BE SUBMITTED TO OJRSA FOR REVIEW AND APPROVAL.

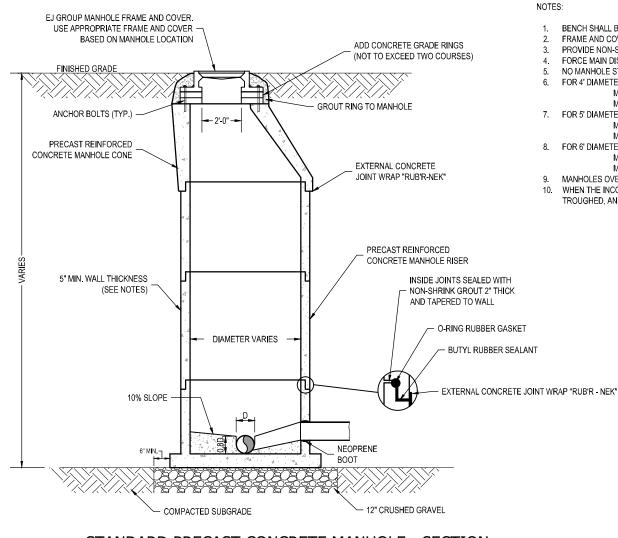
LONG SPAN CREEK CROSSING





STREAM BANK PROTECTION

OCONEE JOINT REGIONAL SEWER AUTHORITY		
STREAM BANK PROTECTION		
	DATE:	DRAWING NO.:
	06/2020	D 007
OJRSA	REVISED:	SCALE: NTS



STANDARD PRECAST CONCRETE MANHOLE - SECTION

STANDARD MANHOLE SCHEDULE				
PIPE SIZE	INSIDE DIAMETER	ANGLE (Δ)	'R'	'X'
8" - 15"	4'-0"	0° - 90°	2'-0"	0"
18" - 30"	5'-0"	0° - 90°	2'-0"	6"
36" & LARGER	6'-0"	0° - 60°	3'-0"	9"
36" & LARGER	6'-0"	60° - 90°	3'-0"	1'-2"

- BENCH SHALL BE PRECAST.
- FRAME AND COVER SHALL BE SET ON BUTYL RUBBER AND SHALL BE BOLTED TO MANHOLE CONE.
- PROVIDE NON-SHRINK GROUT ON OUTSIDE OF GRADE RINGS AND MANHOLE FRAME OVERLAPPING CONE BY 6 INCHES.
- FORCE MAIN DISCHARGE MANHOLES SHALL BE COATED.
- NO MANHOLE STEPS WILL BE ALLOWED.
- FOR 4' DIAMETER MANHOLES:

MIN. WALL THICKNESS = 5"

MIN. BASE SLAB THICKNESS = 6"

7. FOR 5' DIAMETER MANHOLES:

MIN. WALL THICKNESS = 5"

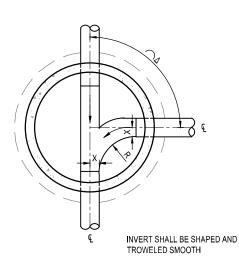
MIN. BASE SLAB THICKNESS = 8"

8. FOR 6' DIAMETER MANHOLES:

MIN. WALL THICKNESS = 6"

MIN. BASE SLAB THICKNESS = 8"

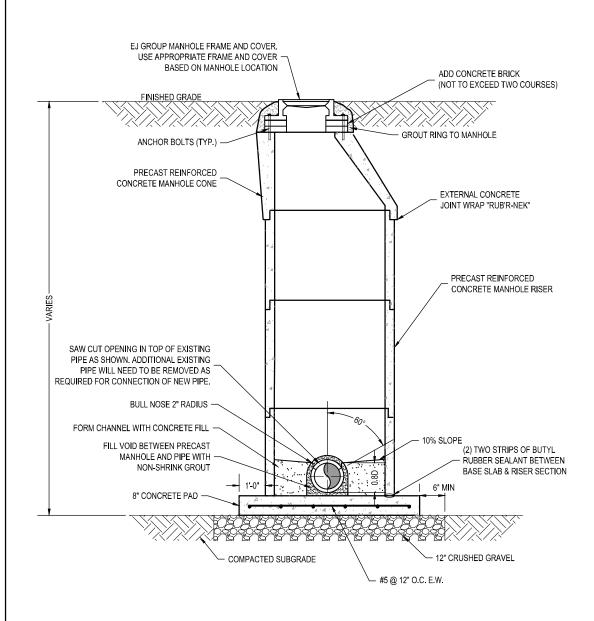
- MANHOLES OVER 8' DEEP SHALL HAVE A 60" MIN. INSIDE DIAMETER.
- WHEN THE INCOMING INVERT IS LESS THAN 24" ABOVE THE OUTGOING INVERT, THE LINE SHALL BE BENCHED. TROUGHED, AND MORTAR TROWELED SMOOTH TO ENTER AT THE MANHOLE INVERT.



STANDARD PRECAST CONCRETE MANHOLE - PLAN

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY STANDARD MANHOLE DATE: DRAWING NO.: 06/2020 D 008 REVISED: SCALE: NTS



DOGHOUSE MANHOLE - SECTION

Scale: NTS

NOTES:

- USE OF DOGHOUSE TYPE MANHOLE MUST BE APPROVED BY OJRSA.
- SEE STANDARD PRECAST MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.

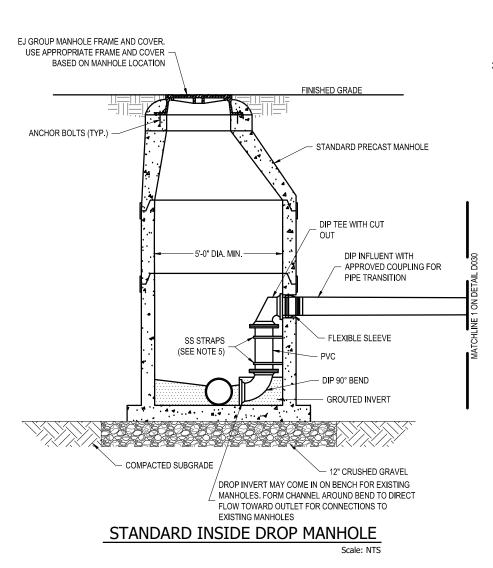
OCONEE JOINT REGIONAL SEWER AUTHORITY DOGHOUSE MANHOLE

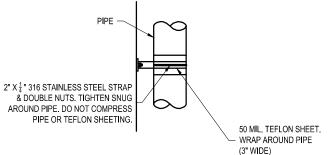
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D 009

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STAINLESS STEEL PIPE SUPPORT STRAP

Scale: NTS

NOTES:

- 1. PIPE SIZE FOR DROP TO EQUAL INFLOW SEWER PIPE SIZE.
- 2. MECHANICAL JOINT FITTINGS TO BE USED.
- 3. SAW-CUT OR DRILL ALL HOLES FOR PIPE AND BOLTS.
- DROP-MANHOLE MANDATORY WHEN DIFFERENTIAL BETWEEN INVERTS IS GREATER THAN 24". DROP-MANHOLES WILL BE ALLOWED ONLY WHEN IT IS NOT FEASIBLE TO STEEPEN SLOPE SO THAT THE DROP IS LESS THAN 24"
- INSTALL 316 STAINLESS STEEL STRAPS WITHIN 12" OF EACH PIPE JOINT AND AT 18" MAX SPACING.
- PVC TO BE C900.
- 7. FITTINGS SHALL BE STANDARD AWWA-C110 FITTINGS.
- 8. SEE STANDARD PRE-CAST MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 9. SEE DETAIL D030 FOR SEWER LATERAL AND CLEANOUT.

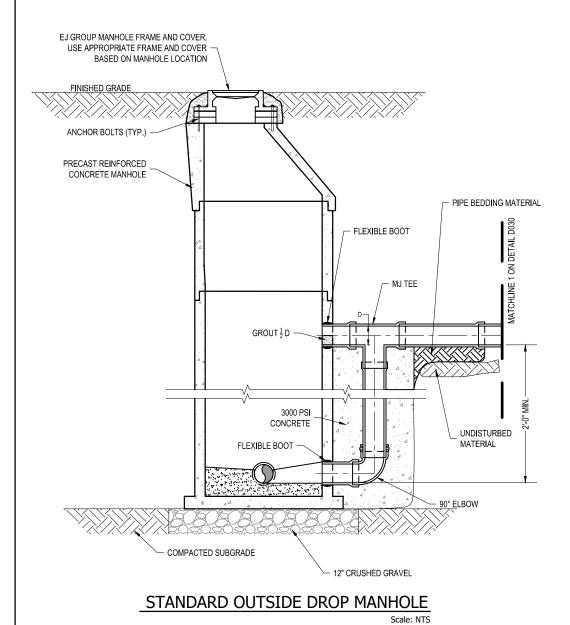
PIPE SIZE	MANHOLE CORE DIAMETER
4"	8"
6"	12"
8"	16"
10"	20"
12"	24"
15"	27"
18"	30"

OCONEE JOINT REGIONAL SEWER AUTHORITY

STANDARD INSIDE DROP MANHOLE

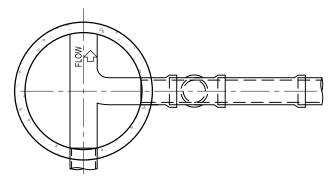


DATE:	DRAWING NO.:
11/2022	D 010
REVISED:	SCALE:
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- 1. A DROP MANHOLE IS REQUIRED FOR DROPS OVER 24".
- 2. DROP ASSEMBLY SHALL BE DIP PRESSURE CLASS 150 MINIMUM.
- 3. SEE STANDARD PRE-CAST MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 4. SEE DETAIL D030 FOR SEWER LATERAL AND CLEANOUT.

PIPE SIZE	MANHOLE CORE DIAMETER		
4"	8"		
6"	12"		
8"	16"		
10"	20"		
12"	24"		
15"	27"		
18"	30"		



OUTSIDE DROP MANHOLE - PLAN

Scale: NTS

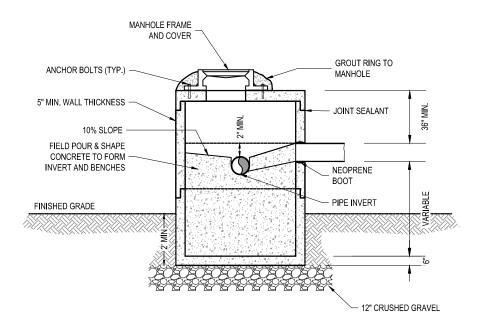
OCONEE JOINT REGIONAL SEWER AUTHORITY

OUTSIDE DROP MANHOLE



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11/2022	D 011

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PRECAST MANHOLE FOR AERIAL GRAVITY SEWER DETAIL

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

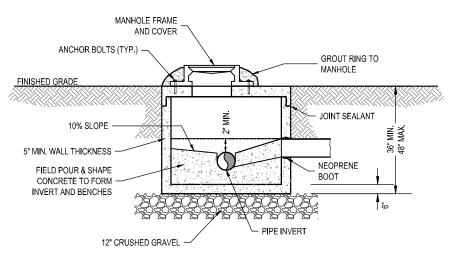
PRECAST MANHOLE FOR AERIAL GRAVITY SEWER

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REVISED: SCALE:

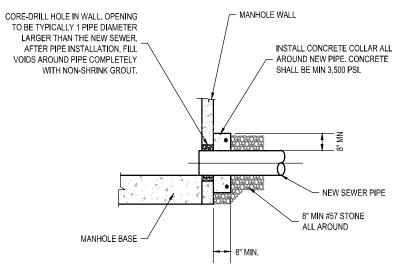


1. SHALLOW MANHOLE DETAIL APPLIES TO MANHOLES BETWEEN 36" AND 48" IN DEPTH. MANHOLES LESS THAN 36" SHALL BE PER AERIAL SEWER MANHOLE.

SHALLOW PRECAST MANHOLE

Scale: NTS

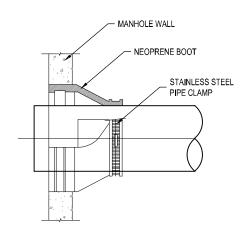
OCONEE JOINT REGIONAL SEWER AUTHORITY SHALLOW PRECAST MANHOLE DATE: 06/2020 D 013 REVISED: SCALE: NTS



- 1. REFER TO THIS DETAIL WHEN CONNECTING NEW SEWER PIPES TO EXISTING MANHOLES.
- 2. THIS DETAIL DEPICTS THE NEW SEWER ENTERING AT THE EXISTING INVERT ELEVATION. THIS WILL NOT BE THE CASE FOR ALL MAIN SEWERS, PROVIDE A SMOOTH TRANSITION AND INVERT CHANNEL FOR ANY INCOMING ELEVATION FOR SEWER LINES ENTERING MANHOLES ON TOP OF THE BENCH. PROVIDE AN INVERT CHANNEL ON THE BENCH, BY GROUTING NEW CHANNEL.

NEW PIPE CONNECTION AT EXISTING MANHOLE

Scale: NTS



NOTES:

1. NEOPRENE BOOTS TO BE
PROVIDED FOR ALL PIPE
CONNECTIONS TO NEW MANHOLES.

RUBBER BOOT PIPE CONNECTOR FOR NEW MANHOLE

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

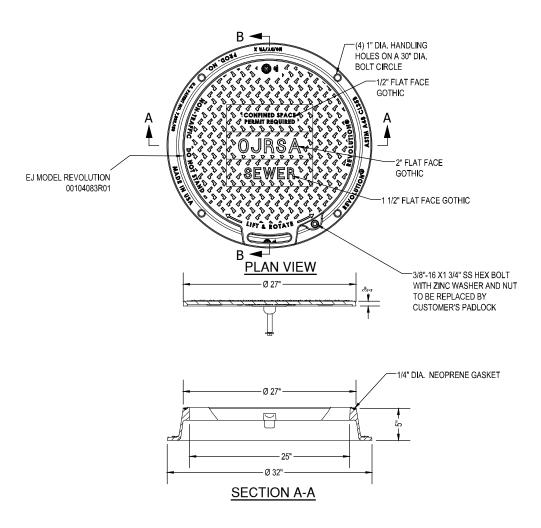
PIPE CONNECTION AT MANHOLE

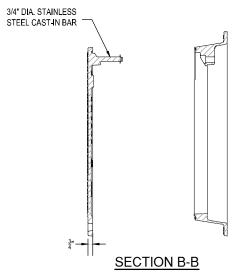


DATE: DRAWING NO.:
06/2020 D 014

REVISED:

SCALE: NTS





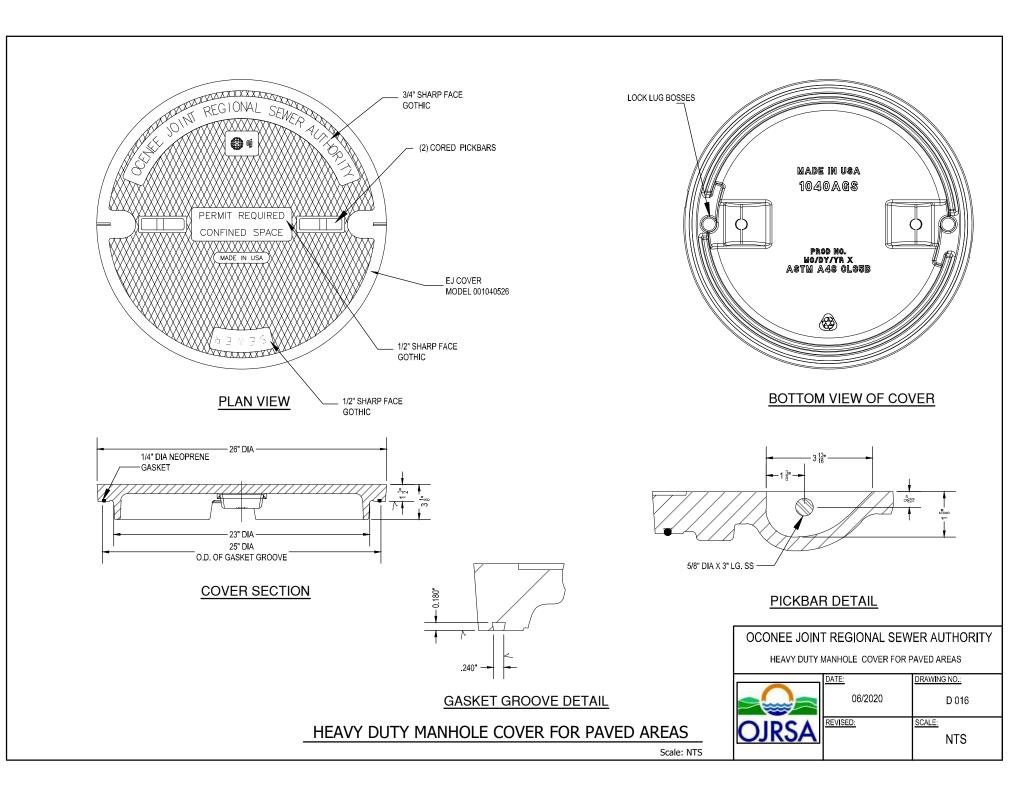
STANDARD MANHOLE FRAME & COVER MIN. 2' ABOVE GRADE

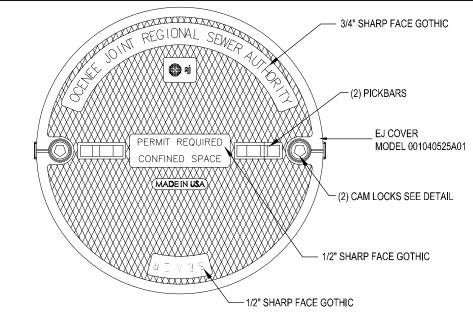
Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

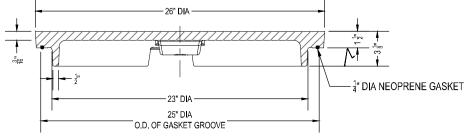
STANDARD MANHOLE FRAME & COVER. MIN. 2' ABOVE GRADE

	DATE:	DRAWING NO.:
	06/2020	D 015
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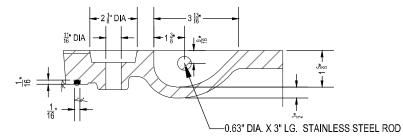




PLAN VIEW

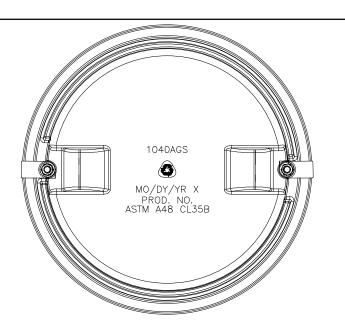


SECTION VIEW

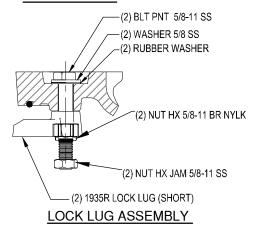


PICKBAR & LOCKLUG HOLE DETAIL

HEAVY DUTY MANHOLE COVER WITH CAM LOCK FOR NON-PAVED AREAS LESS THAN 2' ABOVE GROUND Scale: NTS



BOTTOM VIEW



OCONEE JOINT REGIONAL SEWER AUTHORITY

HEAVY DUTY MANHOLE COVER WITH CAM LOCK

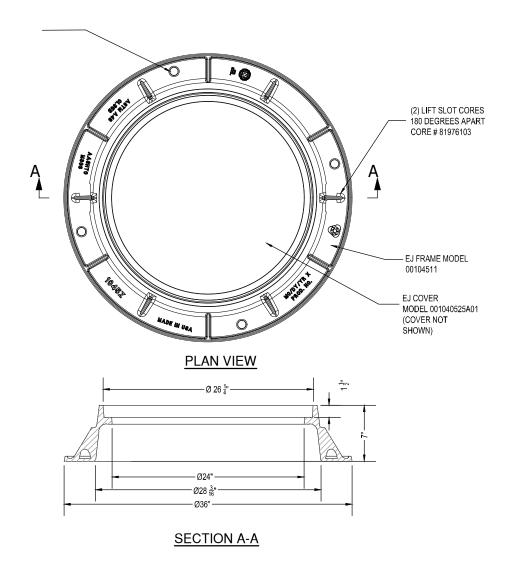


DRAWING NO.: 06/2020 D 017

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SCALE:

(4) 1" Ø BOLT HOLES EQUALLY SPACED ON A 32 ²" Ø BOLT CIRCLE



HEAVY DUTY MANHOLE FRAME FOR PAVED AREAS &

MANHOLES LESS THAN 2' ABOVE GRADE

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

HEAVY DUTY MANHOLE FRAME

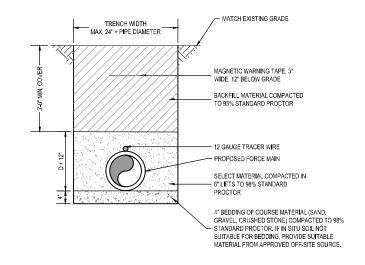
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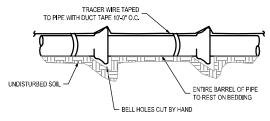
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FORCE MAIN TRENCHING & BEDDING

Scale: NTS

NOTES:

- REFER TO SCDOT, CITY, OR COUNTY PERMITS FOR ADDITIONAL REQUIREMENTS.
- 2.IF UNSUITABLE MATERIAL BENEATH FINAL PIPE GRADE IS ENCOUNTERED, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH CRUSHED STONE AND COMPACTED TO PROPER GRADE.
- 3. ANY DEBRIS ENCOUNTERED IN THE TRENCH EXCAVATION SHALL BE REMOVED.
- 4.AT APPURTENANCES, VALVES, OR WHERE PIPE ENTERS STRUCTURES, CONTRACTOR TO BRING TRACER WIRE TO A POINT ABOVE GROUND ELEVATION. LOCATION ABOVE GROUND ELEVATION WILL BE CONSPICUOUS AND EASY TO ACCESS.

OCONEE JOINT REGIONAL SEWER AUTHORITY

FORCE MAIN TRENCHING & BEDDING



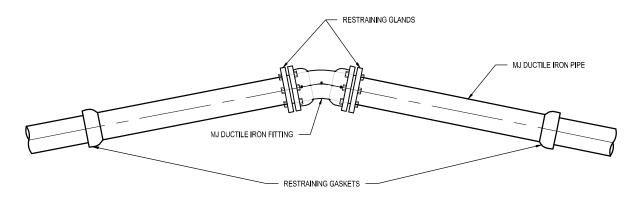
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	06/2020	D 019
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	DIP PIPE RESTRAINT JOINT TABLE							
RESTR	RAIN ALL J	JOINTS W	ITH THES	E LENGT	HS (IN L.F	EACH S	IDE OF	
			FITT	ING)				
SIZE (INCH)	11 ½°	22 ½°	45°	90°	TEE BRANCH	DEAD END	REDUCER	
4	1	2	4	10	1	18	6	
6	2	3	6	14	3	25	13	
8	2	4	8	18	4	33	14	
10	3	5	9	21	13	40	14	
12	3	5	11	25	13	47	25	
16	4	7	14	32	27	61	36	
20	4	8	16	39	40	74	47	
24	5	9	19	45	27	87	48	

^{*} RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) STANDARDS FOR ALL FITTINGS, FITTINGS OF OTHER SIZES, CHANGES IN CONDITIONS, ETC. NOT IN THIS TABLE SHALL BE IN ACCORDANCE WITH DIPRA STANDARDS.

PVC RESTRAINT JOINT TABLE							
RESTR	RESTRAIN ALL JOINTS WITH THESE LENGTHS (IN L.F. EACH SIDE OF FITTING)						
SIZE (INCH)	11 ½°	22 ½°	45°	90°	TEE BRANCH	DEAD END	REDUCER
4	2	3	5	12	1	34	13
6	2	4	7	17	1	47	13
8	3	5	9	22	1	62	24
10	3	6	11	26	1	75	25
12	3	7	13	31	1	89	25
16	4	8	17	40	1	115	36
20	5	10	20	48	11	141	50
24	6	12	23	56	34	165	50

^{*} RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) STANDARDS FOR ALL FITTINGS. FITTINGS OF OTHER SIZES, CHANGES IN CONDITIONS, ETC. NOT IN THIS TABLE SHALL BE IN ACCORDANCE WITH DIPRA STANDARDS.



RESTRAINED JOINT FITTING (HORIZONTAL PIPE ONLY)

Scale: NTS

NOTES

- THE FOLLOWING CONDITIONS WERE USED TO CALCULATE THE RESTRAINED LENGTHS SHOWN IN THE TABLE:
 - * LAYING CONDITION IS TYPE 4.
 - * SOIL DESIGNATED AS SANDY-CLAY.
 - * DEPTH IS 3 FT.
 - * DESIGN PRESSURE (TEST) IS 150 P.S.I..
 - * SAFETY FACTOR IS 1.5.

FOR THE TEE BRANCH AND REDUCER, LENGTHS ARE BASED ON BRANCHING AND REDUCING FROM THE NEXT LARGER SIZE IN THE TABLE. TEE BRANCH LENGTH BASED ON RUN LENGTH TO FIRST JOINT OF 10 FT. DEVIATIONS FROM THESE CONDITIONS MUST BE BASED ON THE ABOVE PARAMETERS.

OCONEE JOINT REGIONAL SEWER AUTHORITY

HORIZONTAL RESTRAINED JOINT FITTING



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DIP VERTICAL RESTRAINT JOINT TABLE RESTRAIN ALL JOINTS (UPPER & LOWER) WITH THESE LENGTHS (IN L.F. EACH SIDE OF FITTING)

SIZE (INCH)	11 ½°		11 ½° 22 ½°		45°	
RESTRAINT	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
4	3	1	5	1	10	2
6	4	1	7	2	14	3
8	5	1	9	2	18	4
10	6	1	11	2	22	4
12	6	2	13	3	26	5
16	8	2	16	3	33	7
20	10	3	20	4	40	8
24	12	3	23	5	47	9

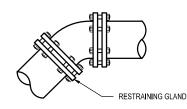
 RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) STANDARDS FOR ALL FITTINGS. FITTINGS OF OTHER SIZES, CHANGES IN CONDITIONS, ETC. NOT IN THIS TABLE SHALL BE IN ACCORDANCE WITH DIPRA STANDARDS.



RESTRAIN ALL JOINTS (UPPER & LOWER) WITH THESE LENGTHS (IN L.F. EACH SIDE OF FITTING)

SIZE (INCH)	11 ½°		E (INCH) 11 ½ 22 ½		1.1°	4	5°
RESTRAINT	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	
4	5	1	9	2	18	3	
6	6	2	13	2	26	4	
8	8	2	16	2	34	4	
10	10	2	20	3	40	5	
12	12	3	23	3	47	6	
16	15	3	30	4	61	8	
20	18	3	36	5	74	10	
24	21	3	42	6	87	11	

* RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) STANDARDS FOR ALL FITTINGS. FITTINGS OF OTHER SIZES, CHANGES IN CONDITIONS, ETC. NOT IN THIS TABLE SHALL BE IN ACCORDANCE WITH DIPRA STANDARDS.





18" MIN.

STORM WATER CULVERT OR DITCH BOTTOM AS DETERMINED BY CULVERT FLOW LINES.

Scale: NTS

NOTES

- THE FOLLOWING CONDITIONS WERE USED TO CALCULATE THE RESTRAINED LENGTHS SHOWN IN THE TABLE:
 - * LAYING CONDITION IS TYPE 4.
 - * SOIL DESIGNATED AS SANDY-CLAY.
 - * DEPTH IS 3 FT.
 - * DESIGN PRESSURE (TEST) IS 150 P.S.I..
 - * SAFETY FACTOR IS 1.5.

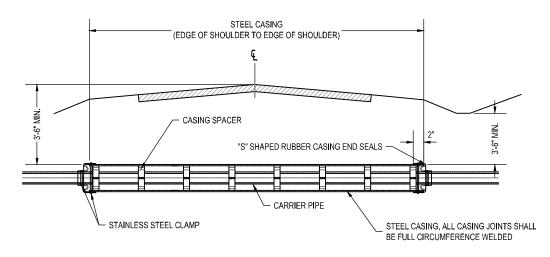
FOR THE TEE BRANCH AND REDUCER, LENGTHS ARE BASED ON BRANCHING AND REDUCING FROM THE NEXT LARGER SIZE IN THE TABLE. TEE BRANCH LENGTH BASED ON RUN LENGTH TO FIRST JOINT OF 10 FT. DEVIATIONS FROM THESE CONDITIONS MUST BE BASED ON THE ABOVE PARAMETERS.

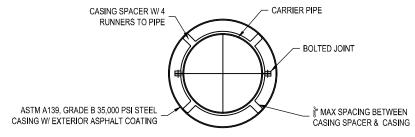
OCONEE JOINT REGIONAL SEWER AUTHORITY

VERTICAL RESTRAINED JOINT FITTING



DATE:	DRAWING NO.:
06/2020	D 021
REVISED:	SCALE:





SECTION

- NOTES:
 1. STAINLESS STEEL CASING SPACERS SHALL BE CASCADE CCS MODEL OR EQUAL, SPACED ALONG THE PIPE AT 10'-0" OC.
- 2. RUBBER CASING END SEALS SHALL BE "TYPE KG" WITH 316 STAINLESS STEEL BANDS. INSULATORS, END SEALS AND BANDS SHALL BE MANUFACTURED BY: PIPELINE SEAL AND INSULATOR, INC. HOUSTON, TEXAS 77021 OR APPROVED EQUAL.

PIPE CASING UNDER PAVED AREAS

CARRIER PIPE	CASING PIPE	
	DIA.	WALL
36" DIP	48"	0.688"
30" DIP	42"	0.625"
24" DIP	36"	0.532"
20" DIP	36"	0.532"
18" DIP	30"	0.469"
16" DIP	30"	0.469"
12" DIP	24"	0.375"
10" DIP	20"	0.344"
8" DIP	20"	0.344"
6" DIP	16"	0.281"

OCONEE JOINT REGIONAL SEWER AUTHORITY

PIPE CASING UNDER PAVED AREAS

	<u>DA</u>
OJRSA	RE

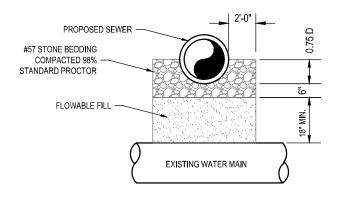
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06/2020	D 022

SCALE:

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NOTES FOR SEWER OVER WATER MAIN:

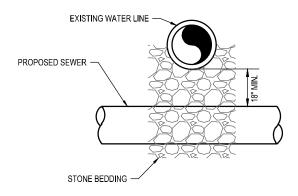
- INSTALL A FULL JOINT OF PIPE FOR WHICHEVER MAIN IS LAID SECOND. IT IS TO BE CENTERED AT CROSSING.
- IF THE WATER IS EXISTING AND THE MINIMUM CLEARANCE IS NOT MET, THE SEWER SHALL BE DUCTILE IRON PIPE. PROVIDE RESTRAINED JOINT FITTINGS WHEN TRANSITIONING FROM DIP TO PVC. PLACE FLOWABLE FILL BETWEEN TOP OF WATER MAIN AND BOTTOM OF SEWER.
- 3. IF THE SEWER IS EXISTING, THE WATER MAIN SHALL MEET THE MINIMUM CLEARANCE.



SEWER CROSSING ABOVE WATER MAIN

NOTES FOR SEWER UNDER WATER MAIN:

- 1. REPLACE SOIL UNDER THE WATER MAIN WITH STONE BEDDING.
- IF CLEARANCE IS LESS THAN 18" DUCTILE IRON SHALL BE USED. PROVIDE RESTRAINED JOINT FITTINGS WHEN TRANSITIONING FROM DIP TO PVC. PLACE STONE BETWEEN TOP OF SEWER AND BOTTOM OF WATER MAIN.
- 3. INSTALL A FULL LENGTH OF PIPE FOR WHICHEVER MAIN IS LAID SECOND. IT IS TO BE CENTERED AT CROSSING.



SEWER CROSSING UNDER WATER MAIN

OCONEE JOINT REGIONAL SEWER AUTHORITY

SEWER LINE CROSSING WATER LINE

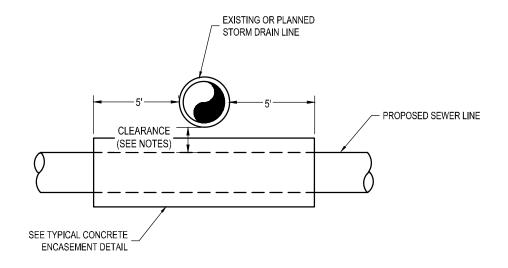
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06/2020	D 023

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SCALE:



- USE DUCTILE IRON IF CLEARANCE IS LESS THAN 18". CENTER FULL JOINT OF PIPE ON STORM DRAIN LINE. PROVIDE RESTRAINED JOINT FITTINGS WHEN TRANSITIONING FROM DIP TO PVC.
- IF CLEARANCE IS LESS THAN 18", USE CONCRETE ENCASEMENT ON PIPE. USE POLYWRAP ON DUCTILE IRON PIPE PRIOR TO POURING CONCRETE.
- WHERE SEWER LINE CROSSES ABOVE A STORM DRAINAGE PIPE OR STRUCTURE WITH LESS THAN 18" VERTICAL SEPARATION, USE DUCTILE IRON PIPE.

SEWER LINE CROSSING UNDER STORM DRAINAGE

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

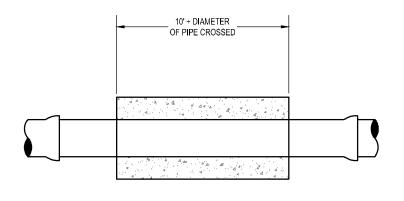
SEWER LINE CROSSING STORM DRAINAGE

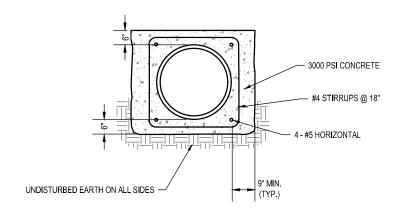


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SCALE: NTS





<u>PROFILE</u> <u>SECTION</u>

TYPICAL CONCRETE ENCASEMENT Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

CONCRETE ENCASEMENT

DATE:

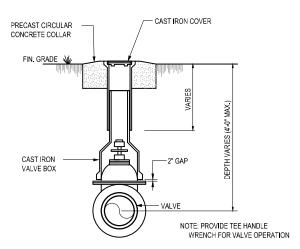
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D 025

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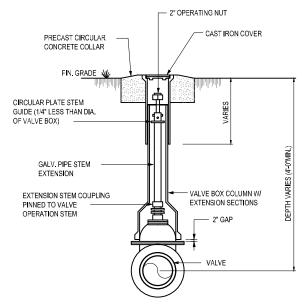
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NOTE: VALVES SHALL BE MECHANICAL JOINT WITH MEGALUG RESTRAINTS

VALVE BOX - DEPTH - LESS THAN 4'-0"



NOTE: VALVES SHALL BE MECHANICAL JOINT WITH MEGALUG RESTRAINTS

VALVE BOX - GREATER THAN 4'-0"

DETAIL - VALVE BOX INSTALLATION Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

VALVE BOX

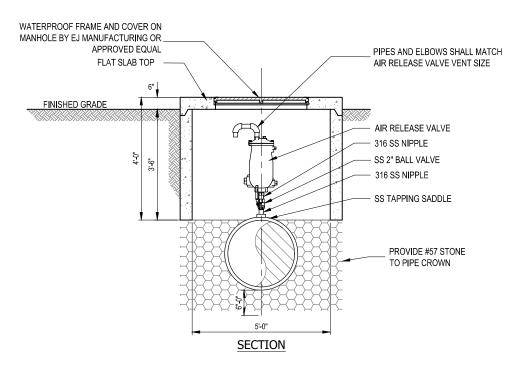
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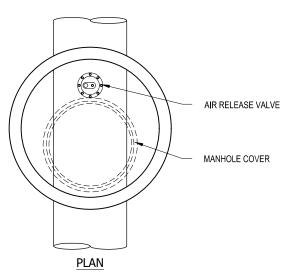
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AIR RELEASE VALVE

cale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

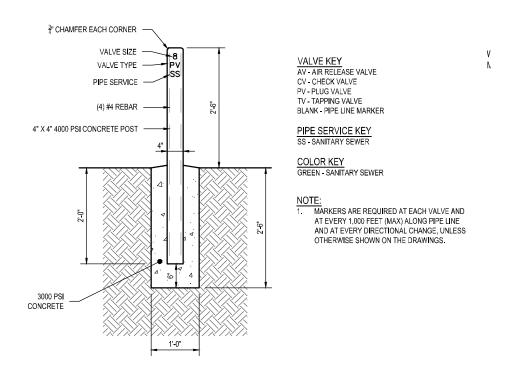
AIR RELEASE VALVE



DATE:	DRAWING NO.:

03/2022 D 027

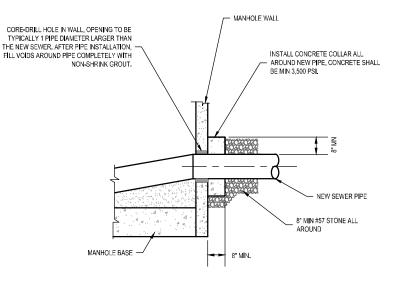
REVISED: SCALE:



PIPELINE & VALVE MARKER

Scale: NT:

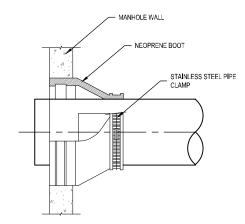
OCONEE JOINT REGIONAL SEWER AUTHORITY PIPELINE & VALVE MARKER DRAWING NO.: 06/2020 D 028 REVISED: NTS



- 1. REFER TO THIS DETAIL WHEN CONNECTING NEW SEWER FORCE MAIN TO EXISTING MANHOLES.
- 2. PROVIDE A SMOOTH TRANSITION AND INVERT CHANNEL FOR ANY INCOMING ELEVATION, FOR SEWER FORCE MAINS ENTERING MANHOLES ON TOP OF THE BENCH, PROVIDE AN INVERT CHANNEL ON THE BENCH BY GROUTING NEW CHANNEL
- 3. FORCE MAIN CONNECTION TO EXISTING MANHOLE SHALL INCLUDE COATING MANHOLE WITH MAINSTAY SOLIDS EPOXY.
- 4. FORCE MAIN CONNECTIONS TO NEW MANHOLES SHALL BE POLYMER CONCRETE MANHOLES.

NEW FORCE MAIN CONNECTION AT EXISTING MANHOLE

Scale: NTS



RUBBER BOOT PIPE CONNECTOR FOR NEW MANHOLE

Scale: NT9

OCONEE JOINT REGIONAL SEWER AUTHORITY

FORCE MAIN CONNECTION AT MANHOLE



DATE:	DRAWING NO.:
06/2020	D 029

SCALE:

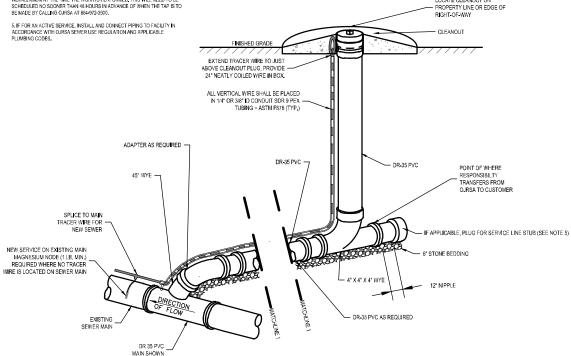
REVISED:

1. OJRSA NOT RESPONSIBLE FOR OPERATION AND MAINTENANCE BEYOND THE CLEANOUT WYE.

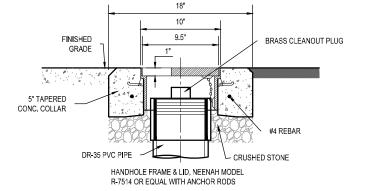
2, DETAIL APPLIES ONLY TO 4-INCH AND 6-INCH CONNECTIONS PER OJRSA

3. CLEANOUT IS TO BE INSTALLED AT THE EDGE OF OURSA, SCDOT, OR OTHER EASEMENT AS APPROPRIATE, CONTACT OURSA AT 864-972-3900 FOR INFORMATION.

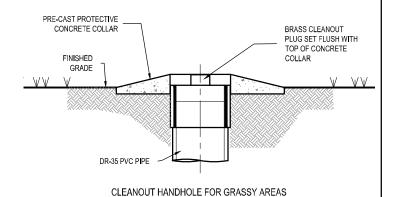
4. THE OJRSA WILL PERFORM AN INSPECTION OF THE TAP AND CLEANOUT INSTALLATION AT THE TIME THE WORK IS PERFORMED, THIS WILL NEED TO BE SCHEDULED NO SOONER THAN 48 HOURS IN ADVANCE OF WHEN THE TAP IS TO BE MADE BY CALLING GURSA AT 864-972-3900.



LOCATE CLEANOUT ON



CLEANOUT HANDHOLE FOR CONCRETE OR ASPHALT AREAS



SEWER CLEANOUT

OCONEE JOINT REGIONAL SEWER AUTHORITY

SEWER LATERAL AND CLEAN OUT



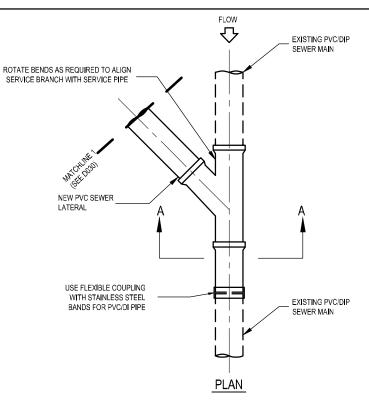
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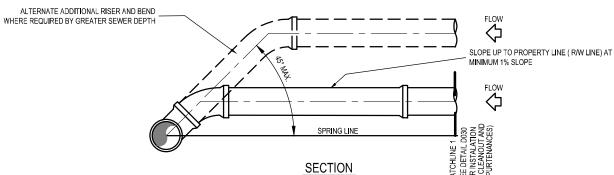
REVISED:

NTS 08/2024

SCALE:

TYPICAL SEWER SERVICE LATERAL





- 1. INSTALL CLEANOUT AND APPURTENANCES ON PROPERTY LINE OR EDGE OF RIGHT-OF-WAY PER DETAIL D030 (SEE MATCHLINE 1)
- 2. SERVICE CONNECTIONS SHALL USE 4" OR 6" DR 35 PVC PIPE AND FITTINGS.
- 3. SERVICE CONNECTIONS BELOW 12 FEET DEPTH SHALL BE C-900 PVC PIPE AND FITTINGS UNTIL SERVICE IS LESS THAN 12 FEET DEEP.
- 4. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS MORE THAN 7'-0" DEEP.
- 5. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.
- 6. RIGID COUPLINGS MAY BE USED IN LIEU OF FLEXIBLE COUPLINGS.
- 7. MAINTAIN 36" MINIMUM COVER FROM TOP OF SERVICE TO FINISH GRADE. WHERE NOT TECHNICALLY FEASIBLE CONTACT OJRSA.
- 8. PVC SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARDS OF THE UNI-BELL HANDBOOK OF PVC PIPE DESIGN AND CONSTRUCTION, LATEST EDITION.

SEWER LATERAL ON EXISTING GRAVITY SEWER

Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY

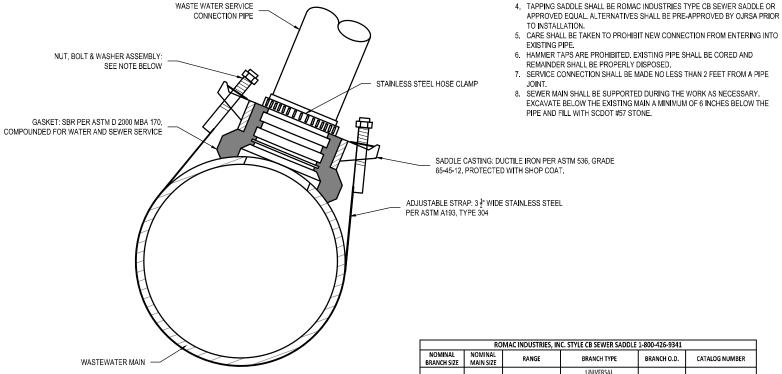
SEWER LATERAL ON EXISTING GRAVITY SEWER



DATE:	DRAWING NO.:
06/2020	D 031

REVISED: SCALE:

09/2024 NTS



NUT, BOLT & WASHER ASSEMBLY:
NUTS TO BE STAINLESS STEEL PER ASTM A 194, TYPE 304. BOLTS TO
BE \$\frac{1}{2}\text{ UNC ROLLED TREAD, LUBRICANT COATED, STAINLESS STEEL PER
ASTM A 193, TYPE 304. WASHERS TO BE STAINLESS STEEL PER ASTM
A 240, TYPE 304 AND PLASTIC LUBRICATING WASHERS.

ROMAC INDUSTRIES, INC. STYLE CB SEWER SADDLE 1-800-426-9341						
NOMINAL NOMINA BRANCH SIZE MAIN SI		RANGE	BRANCH TYPE	BRANCH O.D.	CATALOG NUMBER	
	6"-12"		6.27 - 14.40 (REGULAR GASKET)	UNIVERSAL (PVC SDR 35 & SCH. 40)	4.20 - 4.63	CB-4.63UN
4"	(HO SINAL)	(REGOEAR GASKET)	DUCTILE IRON PIPE	4.80	CB-4.80	
4	14"-2 4" (96" STRAP)	14.40 - 25.80 (LARGE O.D. GASKET)	UNIVERSAL (PVC SDR 35 & SCH. 40)	4.20 - 4.63	CB-4.63UNLS	
		(90 STRAF) (LANGE C.D. GASKET)	DUCTILE IRON PIPE	4.80	CB-4.80L5	
	6" (48" STRAP) (REGULAR GAS 14"-24" 14.40 - 25.8		UNIVERSAL (PVC SDR 35 & SCH. 40)	6.27 - 6.66	CB-6.66UN	
c"		(NEGOEAN GASKET)	DUCTILE IRON PIPE	6.90	CB-6.90LS	
b		14.40 - 25.80 (LARGE O.D. GASKET)	UNIVERSAL (PVC SDR 35 & SCH. 40)	6.277 - 6.66	CB-6.66UNLS	
	(50 311041)	(EMINUL O.D. GASKET)	DUCTILE IRON PIPE	6.90	CB-6.90LS	

ALL WORK TO BE COMPLETED IN ACCORDANCE WITH OJRSA SPECIFICATIONS.
 ALL SERVICE CONNECTIONS SHALL BE INSPECTED BY OJRSA INSECTOR.
 THE APPLICATION SHOWN HERE IS ONLY FOR TAPPING EXISTING LIVE

WASTEWATER MAINS.

SADDLE CONNECTION FOR LIVE WASTEWATER MAINS

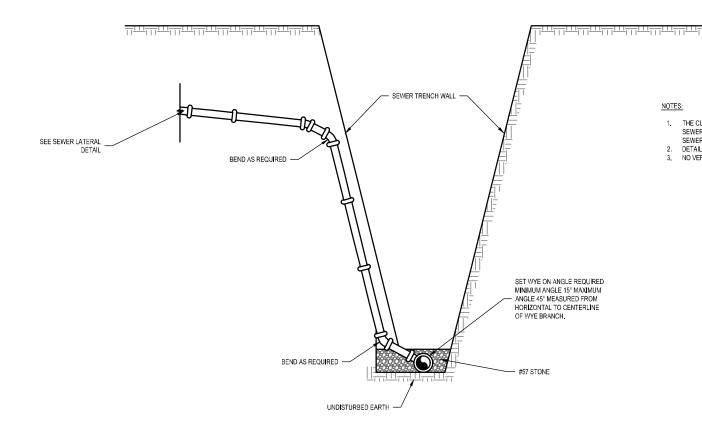
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OCONEE JOINT REGIONAL SEWER AUTHORITY

SADDLE CONNECTION FOR LIVE WASTEWATER MAINS



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- 1. THE CUSTOMER SHALL OWN AND BE RESPONSIBLE FOR THE SEWER LATERAL FROM THE POINT OF CONNECTION WITH THE SEWER MAIN.
- DETAIL APPLIES TO SEWER OVER 12' DEEP TO INVERT.
 NO VERTICAL STACKING WILL BE ALLOWED.

DEEP SEWER SERVICE LINE

OCONEE JOINT REGIONAL SEWER AUTHORITY DEEP SEWER SERVICE LINE

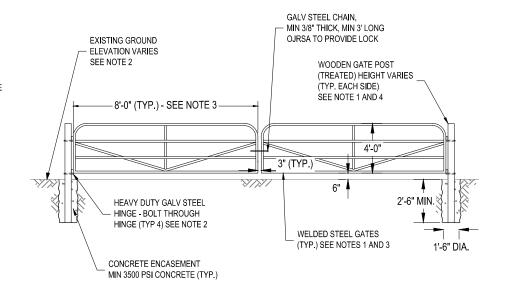
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D 033

	DATE:
	06/2020
OJRSA	REVISED:

- 1. DOUBLE STEEL GATES WILL BE REQUIRED UNDER A VARIETY OF CIRCUMSTANCES AND SITUATIONS TO PROVIDE ACCESS TO SEWERS AND TO PREVENT UNAUTHORIZED PERSONNEL FROM ACCESSING THE SEWERS AND RIGHT-OF-WAY. OJRSA AND / OR THE INDIVIDUAL PROPERTY OWNER SHALL APPROVE THE LOCATION OF ALL GATES. GATES MAY BE INSTALLED IN AN EXISTING FENCE OR OVER NEW SEWER RIGHT-OF-WAY WHERE NO FENCE CURRENTLY EXISTS, WHEN INSTALLING GATES IN AN EXISTING FENCE, THE CONTRACTOR SHALL NEATLY CUT THE EXISTING FENCE AND CONNECT THE FENCE TO THE NEW GATE POSTS IN A MANNER APPROVED BY OJRSA. THE CONNECTION SHALL BE SECURE AND PERMANENT. EXISTING FENCES MAY BE WIRE, BARBED WIRE, WOOD, OR A COMBINATION OF SUCH, WHEN INSTALLING A GATE OVER A NEW SEWER RIGHT-OF-WAY, THE GATE WILL BE TYPICALLY CENTERED OVER RIGHT-OF-WAY. THE CONTRACTOR WILL BE REQUIRED TO INSTALL NEW FENCE ON EACH SIDE OF GATE TO A LOCATION DETERMINED BY OJRSA TO BLOCK USE OF THE RIGHT-OF-WAY BY UNAUTHORIZED VEHICLES. THE EXTENT OF THE NEW FENCE WILL VARY WITH EACH INSTALLATION. THE NEW FENCE MATERIAL WILL BE DETERMINED BY OJRSA BASED ON EACH INSTALLATION AND / OR DESIRES OF PROPERTY OWNERS. FENCE MAY WIRE. BARBED WIRE. WOOD OR A COMBINATION OF SUCH. NEW FENCE POSTS SHALL BE 6"X6" TREATED WOOD POSTS OR APPROVED EQUAL INSTALLED AND ANCHORED AS SPECIFIED FOR THE GATE POSTS.
- GROUND ELEVATIONS WILL VARY AND WILL TYPICALLY NOT BE LEVEL. CONTRACTOR TO ADJUST GATE ELEVATION AND HINGE LOCATIONS TO ACCOMMODATE THE EXISTING GROUND ELEVATIONS TO PROVIDE 6" OF CLEARANCE. DOUBLE GATE INSTALLATION MAY BE REQUIRED IN MANY SITUATIONS DUE TO SIGNIFICANT GROUND ELEVATION CHANGES AT THE GATE.
- GATES TO BE FABRICATED FROM 1-1/2" DIA MIN HIGH-STRENGTH STEEL TUBING WITH ALL WELDED JOINTS. GATES TO BE SAND-BLASTED AND PRIME COATED AT FACTORY AND FINISH COATED AFTER INSTALLATION. COLOR SHALL BE STANDARD PRIMER RED. EACH GATE TO BE 8'-0" WIDE UNLESS OTHERWISE APPROVED BY OJRSA.
- 4. WOODEN GATE POSTS TO BE 6" NOM X 6" NOM TREATED POSTS OR APPROVED EQUAL. THE HEIGHT OF POSTS WILL VARY WITH EACH INSTALLATION BUT SHOULD BE AT LEAST EQUAL TO THE TOP OF THE GATE UNLESS OTHERWISE APPROVED BY OJRSA. WHEN DETERING THE HEIGHT OF THE GATE POSTS, CONSIDERATION MUST BE GIVEN TO THE EXISTING GROUND ELEVATIONS, THE LOCATIONS AND ELEVATIONS OF EXISTING OR NEW FENCES THAT WILL CONNECT TO THE GATE POSTS, AND PROPERTY OWNER CONCERNS. THE HEIGHT OF THE POSTS SHALL BE APPROVED BY OJRSA.



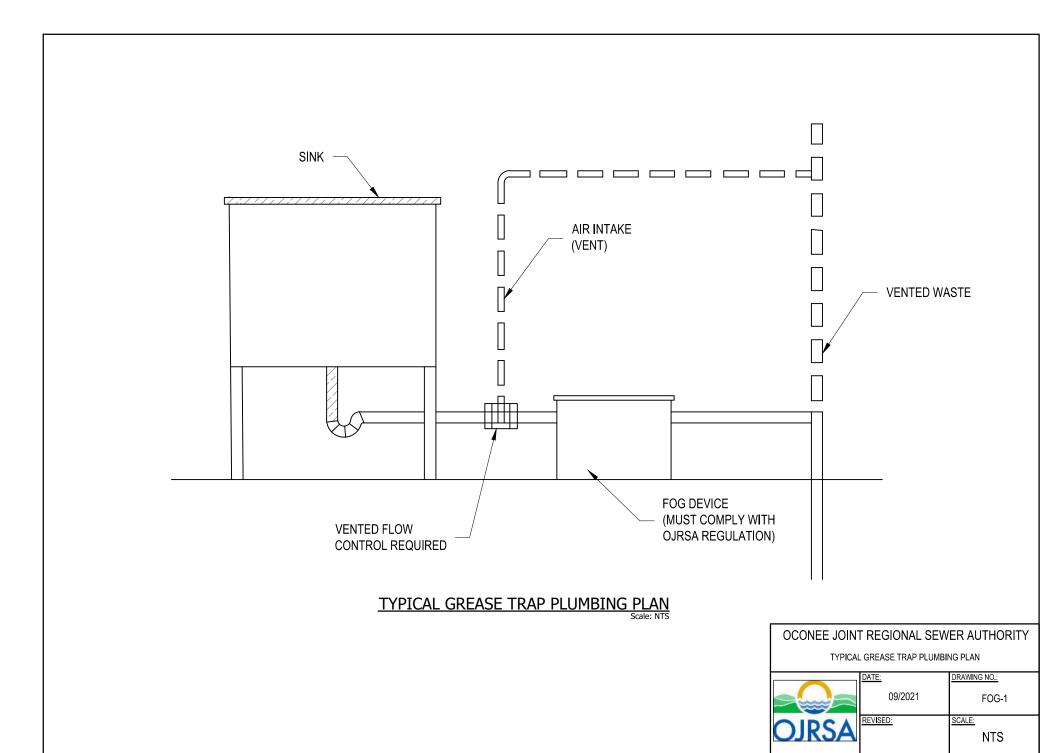
OCONEE JOINT REGIONAL SEWER AUTHORITY STEEL DOUBLE GATE FOR EASEMENTS LDATE: LDRAWING NO:

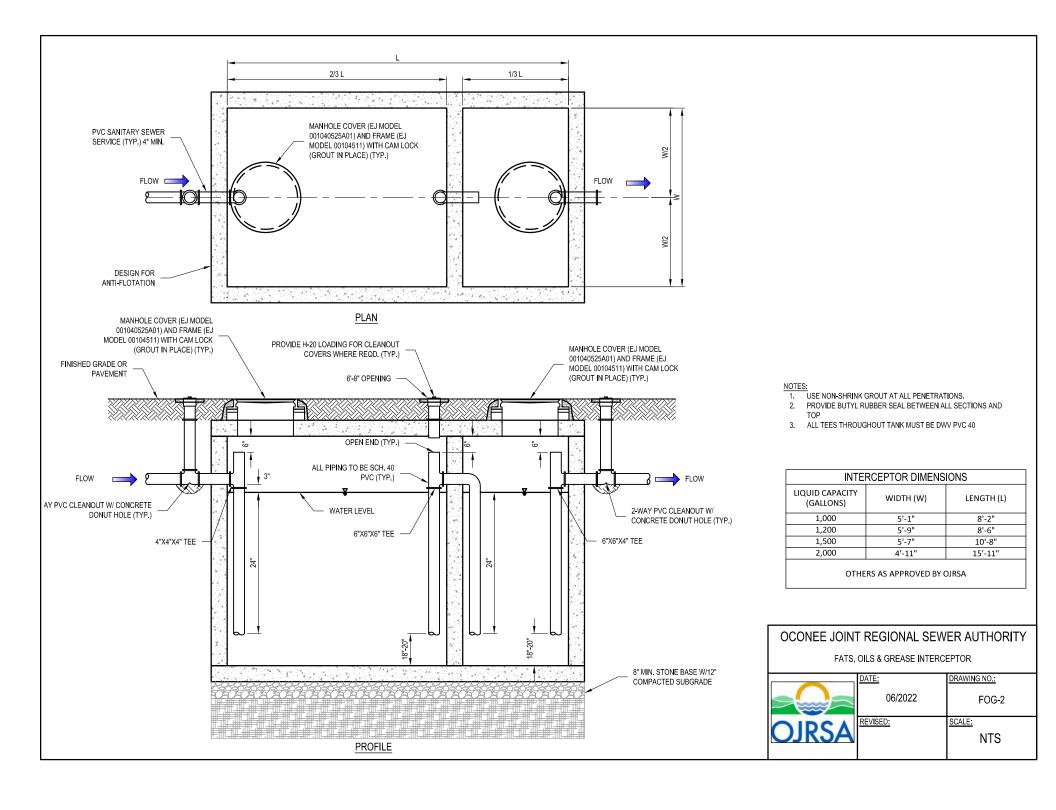
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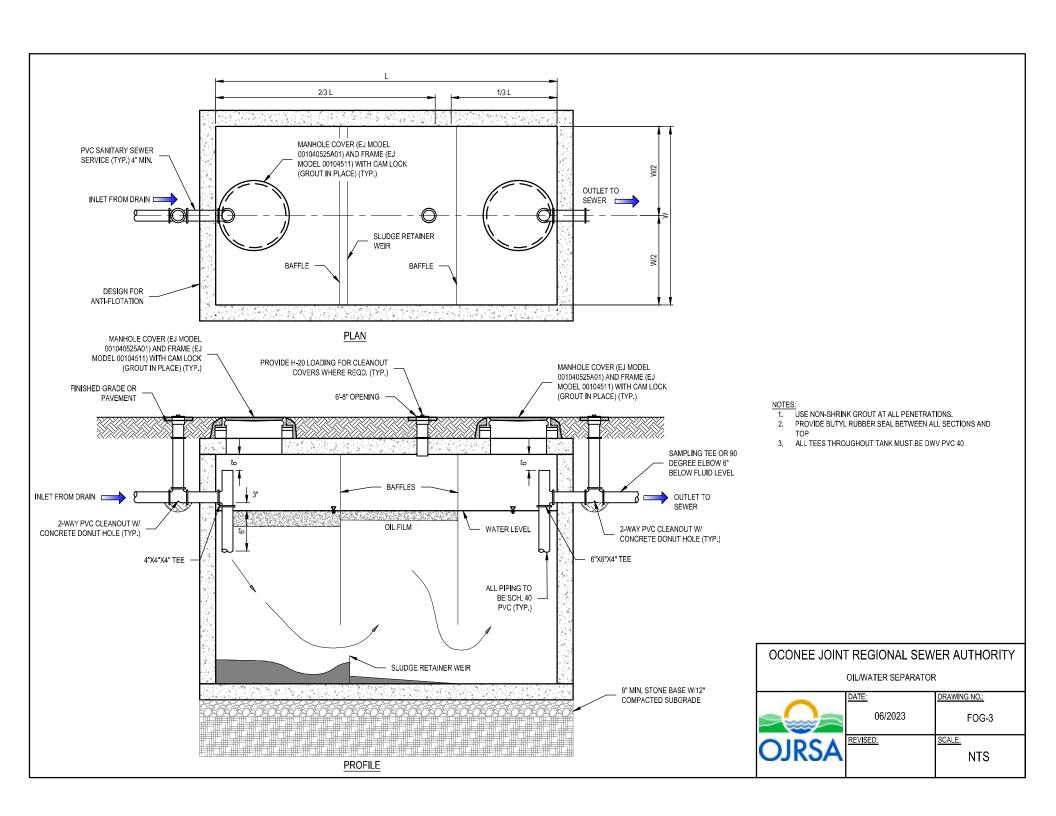
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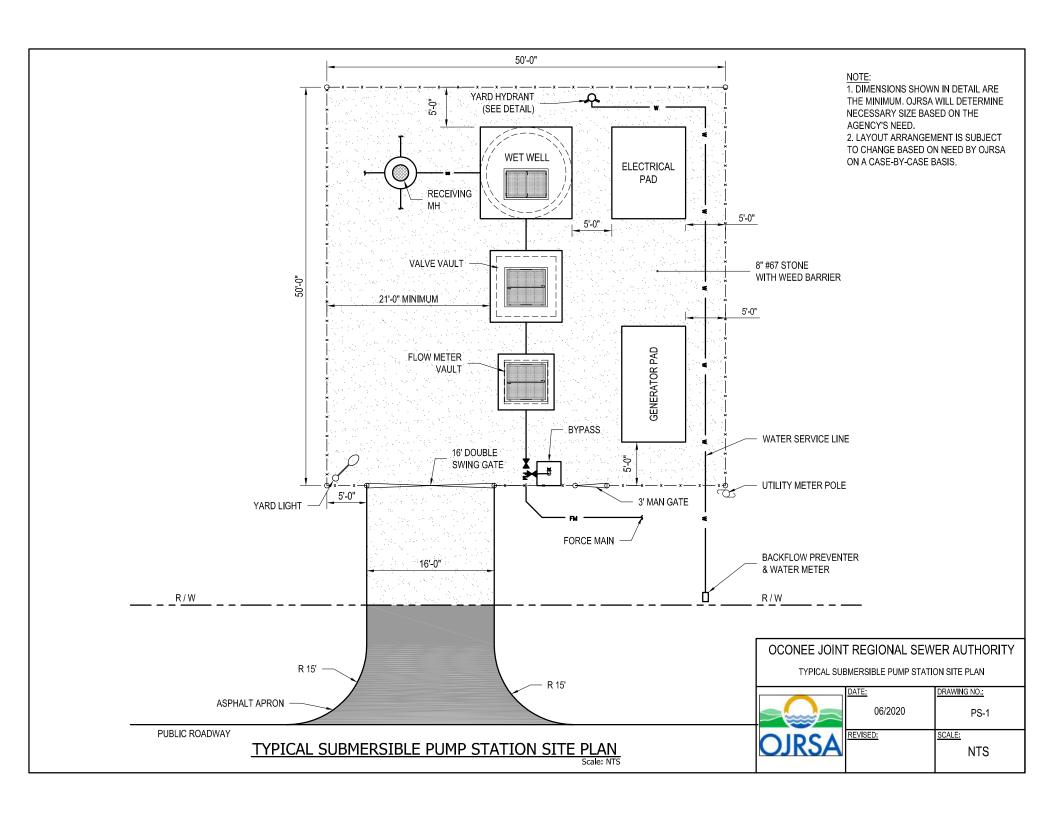
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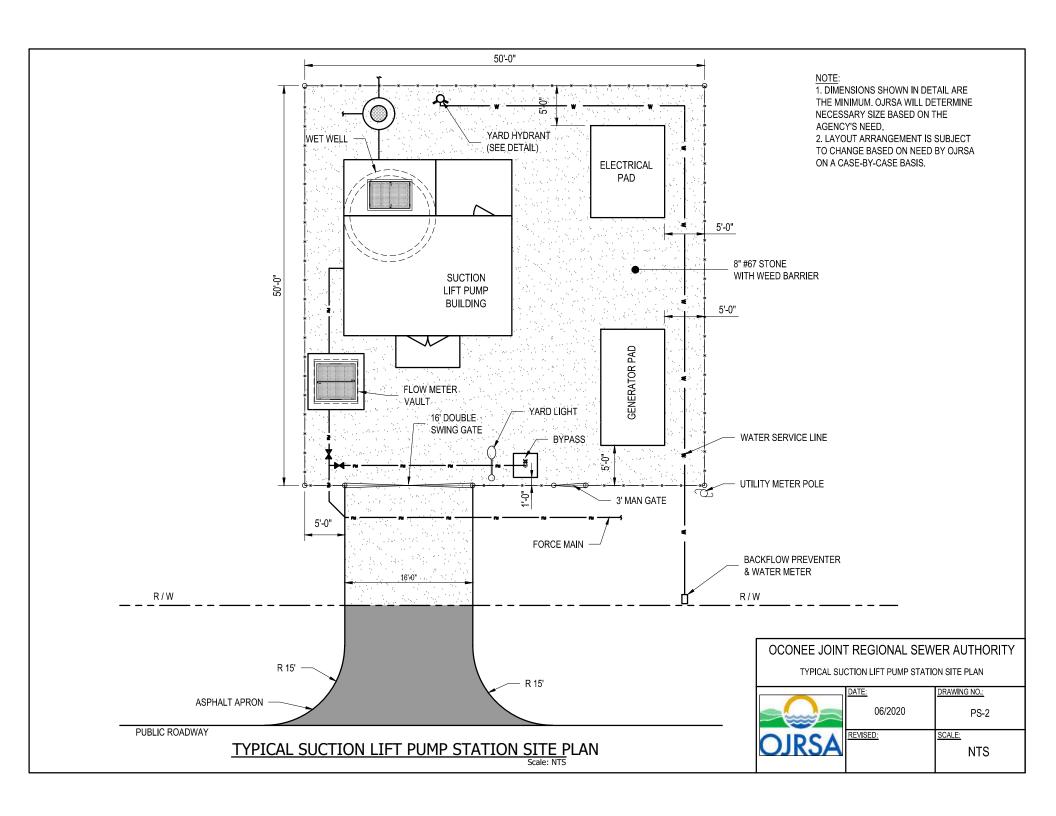
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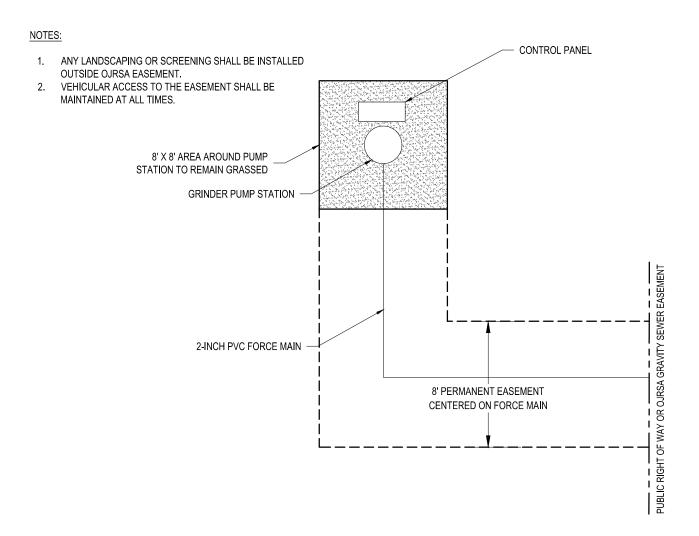












OCONEE JOINT REGIONAL SEWER AUTHORITY

GRINDER PUMP STATION SITE PLAN



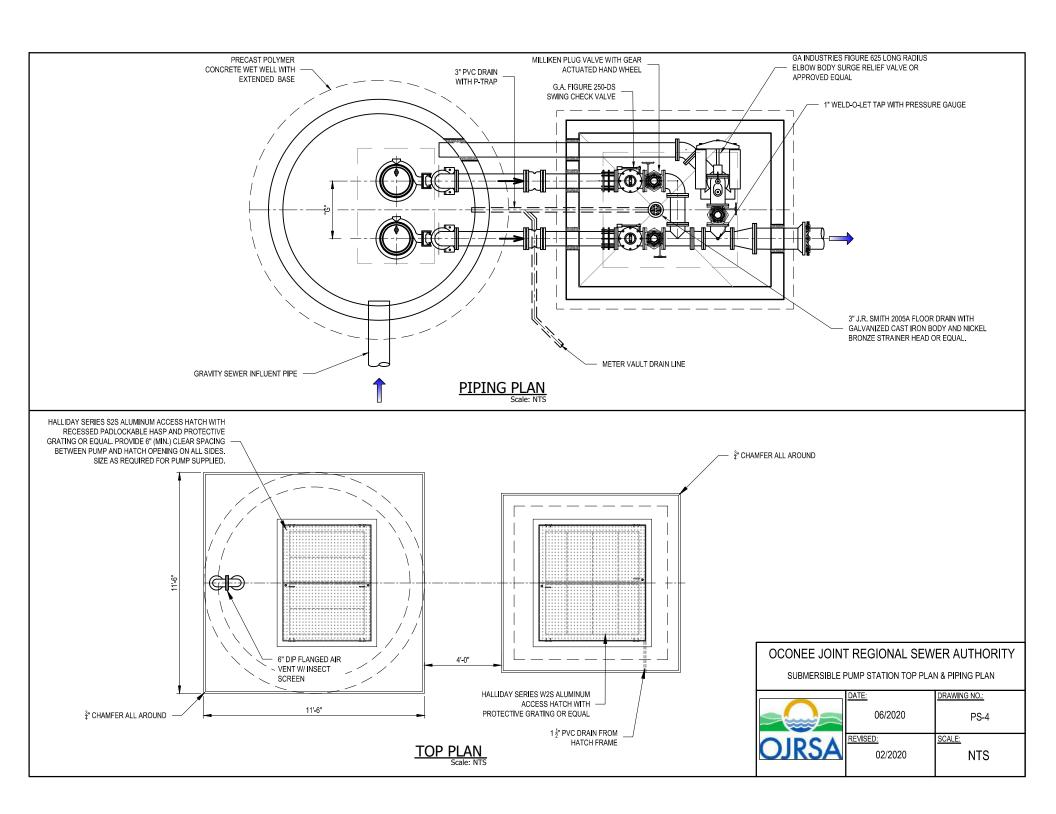
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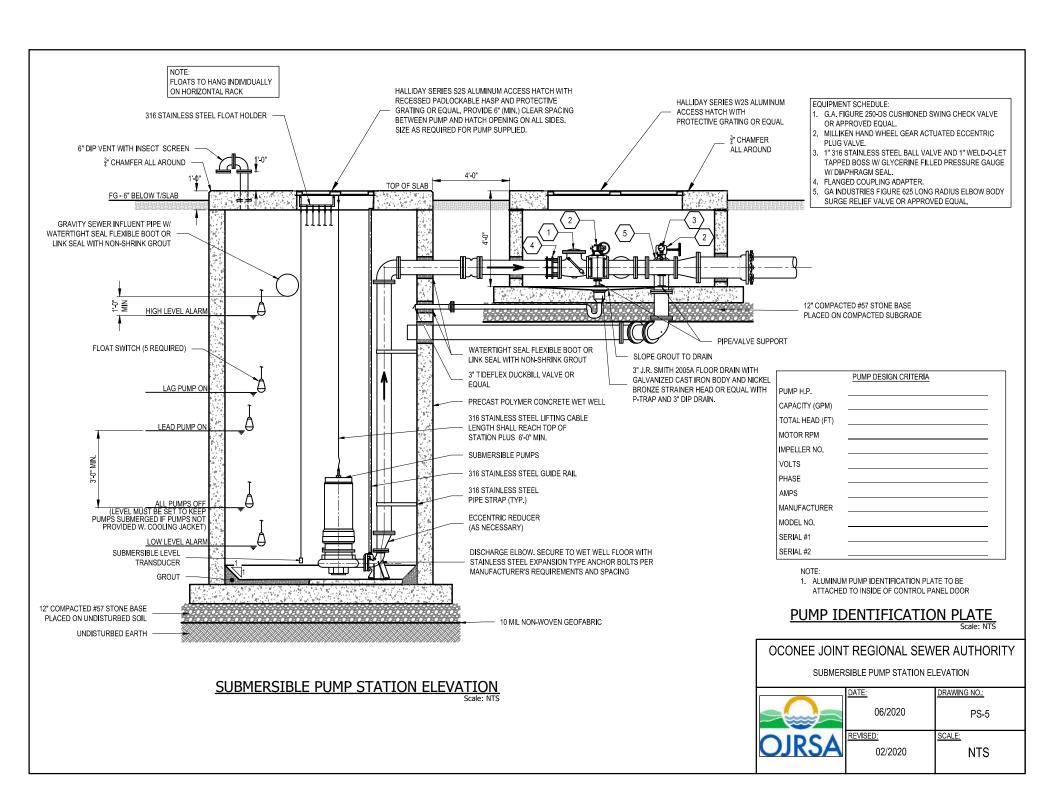
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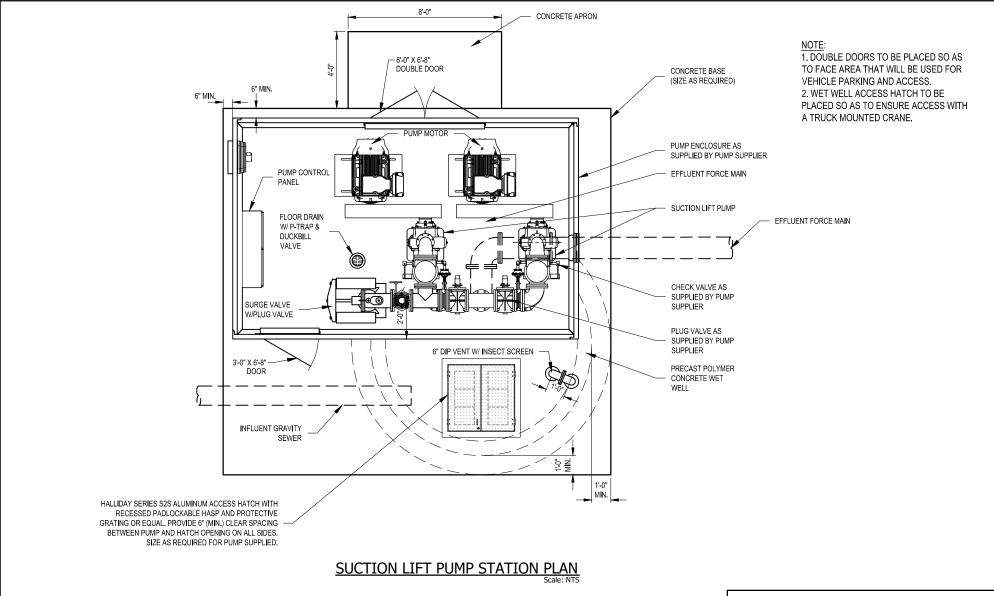
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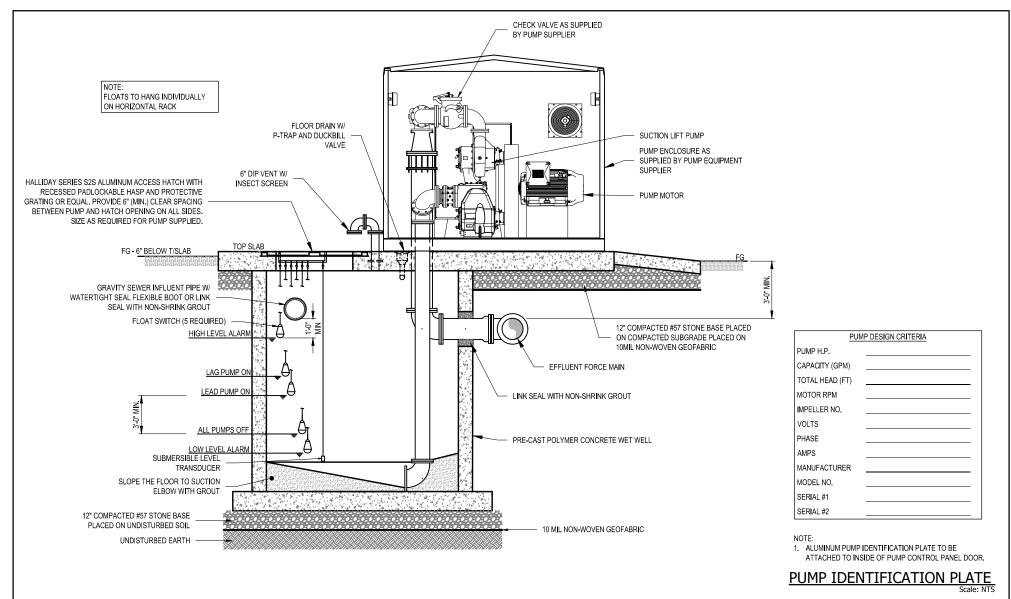
OCONEE JOINT REGIONAL SEWER AUTHORITY SUCTION LIFT PUMP STATION PLAN

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SUCTION LIFT PUMP STATION SECTION

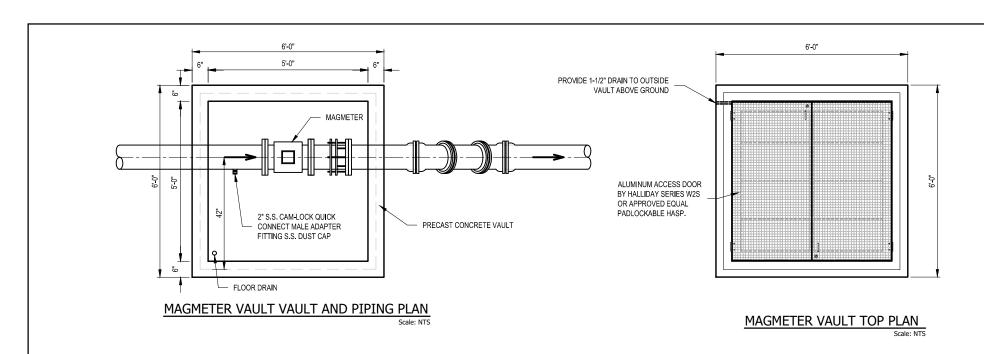
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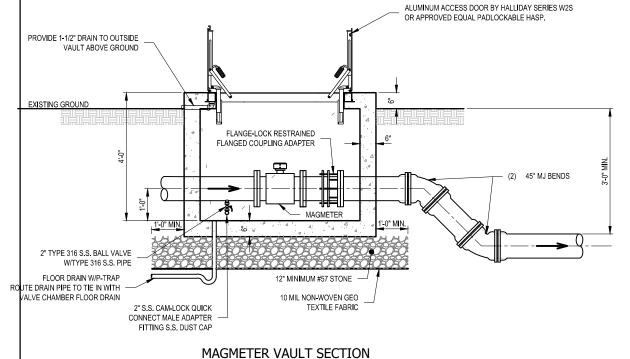
SUCTION LIFT PUMP STATION SECTION



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OCONEE JOINT REGIONAL SEWER AUTHORITY

MAGMETER VAULT

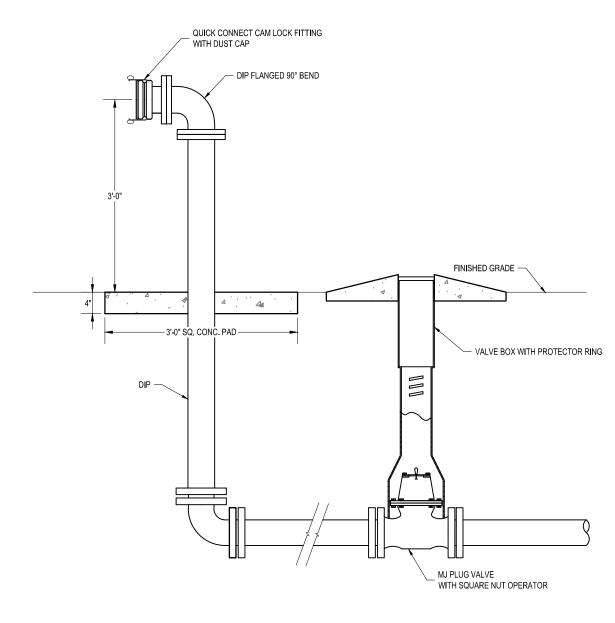
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TYPICAL BYPASS
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OCONEE JOINT REGIONAL SEWER AUTHORITY

TYPICAL BYPASS

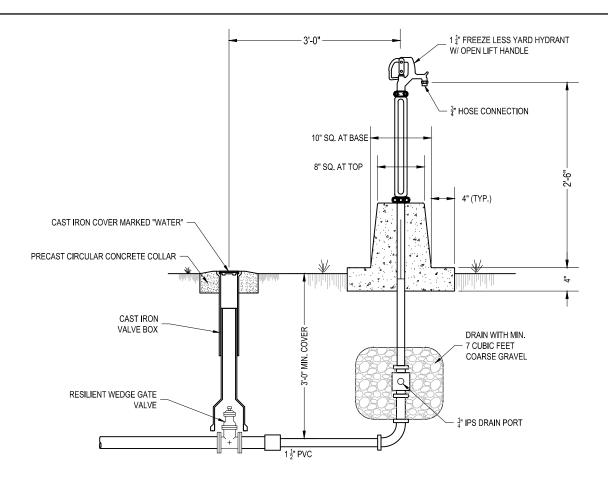
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NOTES:

- YARD HYDRANT SHALL HAVE 1 1/4" INLET AND 3/4" HOSE BIB CONNECTION. OPERATING PARTS OF THE HYDRANT SHALL BE SERVICEABLE OR REPLACEABLE WITHOUT DIGGING UP THE HYDRANT OR DISTURBING THE SUPPLY LINE CONNECTION.
- YARD HYDRANT SHALL BE MANUALLY OPERATED BY PERMANENTLY MOUNTED OPEN LIFT HANDLE.
 POST HYDRANT SHALL CLOSE AGAINST THE PRESSURE AND SHALL BE SELF-DRAINING, NON-FREEZE, COMPRESSION TYPE.
- 3. YARD HYDRANT SHALL PREVENT BACKFLOW WHEN OPEN BY AUTOMATIC ACTION OF THE NOZZLE VACUUM BREAKER AND THROUGH THE DRAIN BY THE BALL CHECK VALVES. THE BACKFLOW PREVENTION SYSTEM SHALL NOT INTERFERE WITH THE NORMAL SELF-DRAINING, NON-FREEZE OPERATION OF THE HYDRANT.

TYPICAL YARD HYDRANT

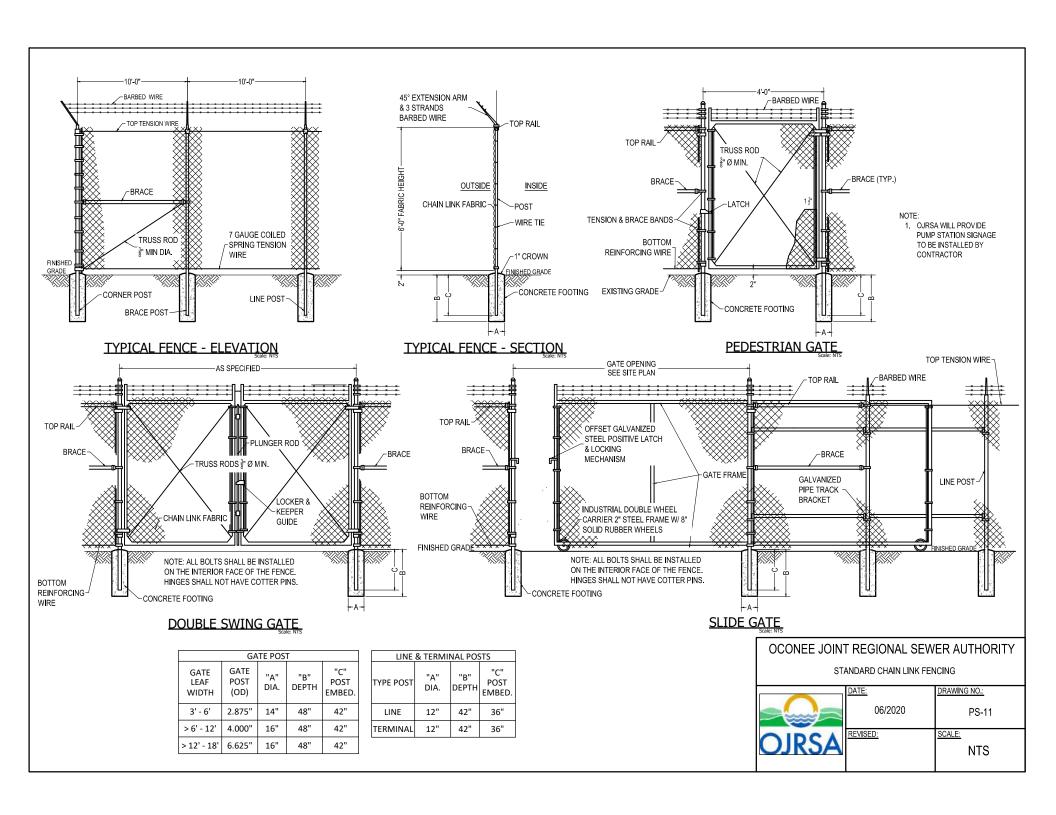
OCONEE JOINT REGIONAL SEWER AUTHORITY TYPICAL YARD HYDRANT

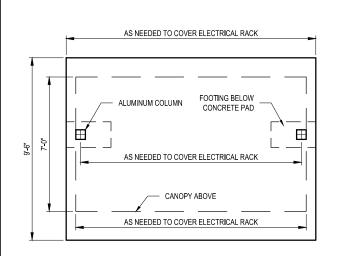
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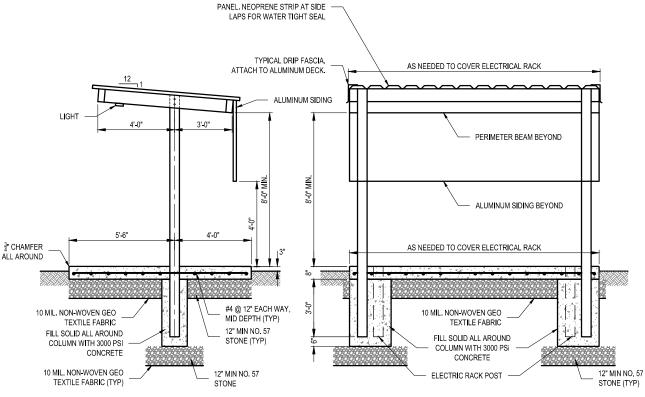
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EXTRUDED ALUMINUM ROOF

CANOPY & ELECTRICAL PAD PLAN

CANOPY & ELECTRICAL PAD SIDE ELEVATION

CANOPY & ELECTRICAL PAD FRONT ELEVATION

- 1. ALL NUTS, BOLTS, AND MISC. HARDWARE SHALL BE 316 STAINLESS STEEL PRIMED AND PAINTED WITH INDUSTRIAL GRADE ENAMEL TO MATCH CANOPY.
- 2. ALUMINUM CANOPY SHALL HAVE FACTORY COATED BAKED ENAMEL FINISH. COLOR TO BE MEDIUM BRONZE.
- 3. MINIMUM DESIGN LOADS:
 - a). 90 MPH WIND LOAD.
 - b). 20 LB/FT 2 LIVE LOAD.
 - c). ACTUAL DEAD LOAD.
 - d). 10 LB/FT2 SNOW LOAD.
 - e). SEISMIC LOAD BASED ON SITE GEOTECHNICAL CONDITIONS AND IN ACCORDANCE WITH ASCE 7
- 4. CANOPY DESIGN SHALL BE STAMPED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER.

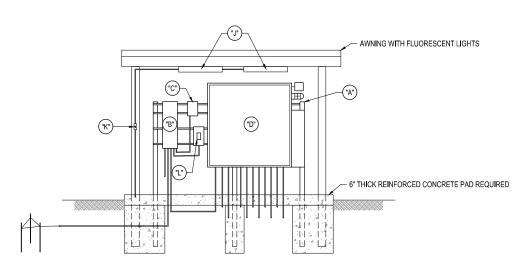
OCONEE JOINT REGIONAL SEWER AUTHORITY

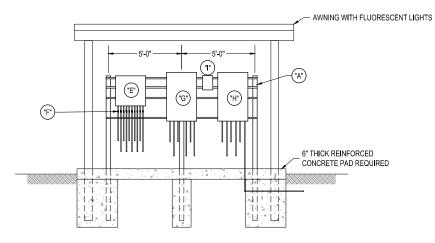
CANOPY AND ELECTRICAL PAD PLAN AND ELEVATIONS

02/2020



DATE: DRAWING NO.: 06/2020 S-1 SCALE: NTS





FRONT ELECTRICAL RACK RISER

ELECTRICAL NOTES

- 1. ALL MATERIALS AND WORK SHALL COMPLY WITH NFPA 70-NEC (LATEST EDITION), NATIONAL ELECTRICAL SAFETY CODE, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE LOCAL CODES AND
- 2. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES INC., AMERICAN NATIONAL STANDARDS INSTITUTE, NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION, INSULATED CABLE ENGINEERS ASSOCIATION, AND INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS IN EVERY CASE WHERE A STANDARD HAS BEEN ESTABLISHED.
- 3. ALL ELECTRICAL EQUIPMENT SHALL BE LOCATED 2 FEET (MINIMUM) ABOVE THE 100 YEAR FLOOD ELEVATION.
- 4. ELECTRICAL SYSTEM SHALL BE DESIGNED TO HANDLE THE LOAD OF BOTH PUMPS RUNNING AT THE SAME TIME.

RTU I/O SCHEDULE		
1/0	SIGNAL DESCRIPTION	
DI-01	POWER (PHASE) FAILURE	
DI-02	UTILITY POWER FAILURE	
DI-03	HIGH LEVEL ALARM (FLOAT)	
DI-04	PUMP #1 RUNNING	
DI-05	PUMP #1 FAILURE (OVERTEMPERATURE ALARM, SEAL FAILURE ALARM, OVERLOAD ALARM, VFD FAULT ALARM)	
DI-06	PUMP #2 RUNNING	
DI-07	PUMP #2 FAILURE (OVERTEMPERATURE ALARM, SEAL FAILURE ALARM, OVERLOAD ALARM, VFD FAULT ALARM)	
DI-08	GENERATOR RUN	
DI-09	GENERATOR FAULT ALARM	
DI-10	GENERATOR FUEL TANK LOW LEVEL ALARM	
D - 11	ATS IN EMERGENCY POSITION	
AI-01	WET WELL LEVEL	
A F 02	PUMP #1 AMPS	
AI-03	PUMP #2 AMPS	
AI-04	PUMP STATION FLOW	

- 5. SHOW CONDUIT/CONDUCTOR SIZES AND RUNS ON PUMP STATION ELECTRICAL PLANS.
- 6. ALL WIRING SHALL BE IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3 AND MINIMUM CONDUCTOR SIZES SHALL BE #12 FOR POWER CONNECTIONS AND #14 FOR CONTROL WIRING.
- 7. ALL BURIED CONDUIT SHALL BE SCH.40 PVC. ALL EXPOSED CONDUIT AND CONDUIT INSIDE THE WET WELL SHALL BE PVC-COATED GRC.
- 8. ALL EQUIPMENT SUBJECT TO VIBRATION SHALL BE CONNECTED WITH A SECTION OF SEALTITE FLEXIBLE CONDUIT.
- 9. PANEL LAYOUT IS SCHEMATIC ONLY. ADJUST LAYOUT WITH OJRSA'S APPROVAL, TO ACCOMMODATE EQUIPMENT PROVIDED. MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PANELS.
- 10. ALL ENCLOSURES SHALL BE NEMA 4X RATED 316 STAINLESS STEEL AND SHALL BE LOCKABLE, UNLESS OTHERWISE NOTED.
- 11. ALL CONDUIT PENETRATIONS SHALL BE MADE THROUGH THE BOTTOM OF PANELS.
- 12. THE PUMP STATION SHALL BE PROVIDED WITH A MISSION RTU FOR REMOTE MONITORING OF ALL PUMP STATION EQUIPMENT.

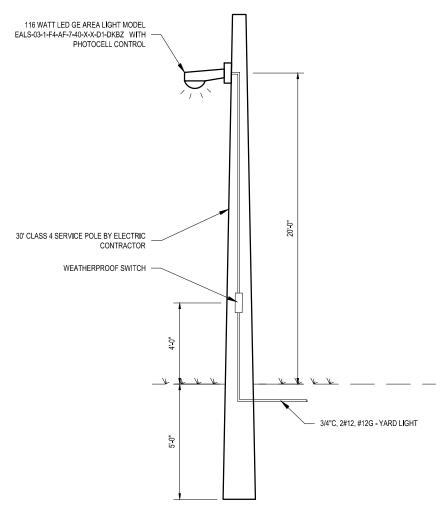
ELECTRICAL EQUIPMENT SCHEDULE		
I.D.	DESCRIPTION	NOTES
А	ELECTRICAL RACK	4" DIAMETER 316 SS POSTS AT 5' (MAX.). 12 GAUGE 316 SS UNISTRUT FOR MOUNTING PANELS. ALL HARDWARE TO BE 316 SS.
В	MAIN DISCONNECT	NON-FUSED, 3-POLE MAIN DISCONNECT IN LOCKABLE 316 SS NEMA 4X ENCLOSURE.
С	TVSS	EATON PTX-160 TVSS WITH INTEGRAL DISCONNECT IN 316 SS NEMA 4X ENCLOSURE.
D	PUMP CONTROL PANEL	PROVIDED BY PUMP SUPPLIER. (APPLIES TO SUBMERSIBLE PUMPS ONLY . PUMP CONTROL PANEL FOR SUCTION LIFT PUMPS SHALL BE IN PUMP ENCLOSURE)
E	JUNCTION BOX	30"(H) x 30"(W) x 8"(D) 316 SS NEMA 4X ENCLOSURE WITH 3-PT LOCKING LATCH, PROVIDE TEXMINAL BLOCKS FOR POWER AND CONTROL CONDUCTORS. INSTALL RUBBER CORD CONNECTIONS ON END OF CONDUITS FROM WET WELL.
F	SEAL-OFF	INSTALL ON CONDUITS AS SHOWN.
G	MANUAL TRANSFER SWITCH	3-POLE MTS IN 316 SS NEMA 4X ENCLOSURE, SEE SPECIFICATIONS
Н	AUTOMATIC TRANSFER SWITCH	3-POLE ATS IN 316 SS NEMA 4X ENCLOSURE. SEE SPECIFICATIONS
1	PORTABLE GENERATOR RECEPTACLE	SEE SPECIFICATIONS FOR MODEL NUMBER
J	CANOPY LIGHTING	4' LED LIGHT (H.E. WILLIAMS 96-4-L62/850-HIAFR-DRV-UNV OR EQUAL)
К	CANOPY LIGHTING SWITCH	PROVIDE WEATHERPROOF ENCLOSURE, MOUNT ON CANOPY COLUMN 48" ABOVE CONCRETE PAD.
L	RECEPTACLE	20A, 120V GFI WITH WEATHERPROOF ENCLOSURE

REAR ELECTRICAL RACK RISER Scale: NTS

- 13. ALL PUMP STATION CONTROL PANELS SHALL HAVE TERMINAL BLOCKS WITH DRY CONTACTS FOR CONNECTION TO SCADA RTU.
- 14. EXTEND CONDUITS INSIDE WET WELL TO HATCH OPENING FOR EASE OF ACCESS. PROVIDE STRAIN RELIEF GRIPS ON ALL CABLES INSIDE WET WELL HANGING ON CABLE RACK.

OCONEE JOINT REGIONAL SEWER AUTHORITY DUPLEX PUMP STATION ELECTRICAL STANDARDS DRAWING NO.: DATE: 06/2020 E-1

REVISED: SCALE: NTS



YARD LIGHT DETAIL Scale: NTS

OCONEE JOINT REGIONAL SEWER AUTHORITY			
YARD LIGHT			
	DATE:	DRAWING NO.:	
	06/2020	E-2	
OJRSA	REVISED:	SCALE: NTS	

