

DRAWING NOT TO SCALE

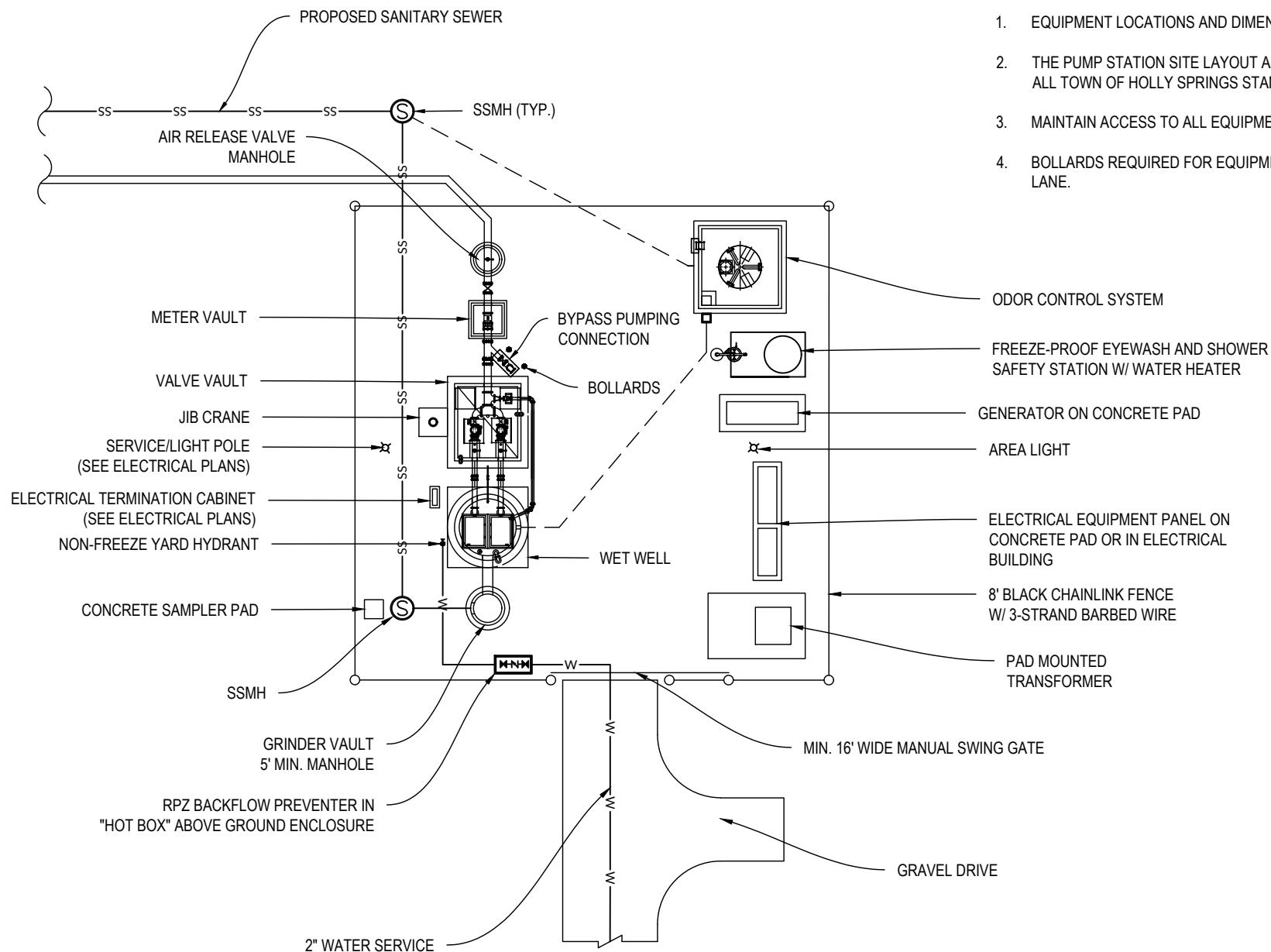
## PUMP STATION ACCESS AND BUFFERS

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1301

DATE	REVISIONS
7/24/09	
6/11/24	
11/19/24	





NOTES:

1. EQUIPMENT LOCATIONS AND DIMENSIONS MAY VARY.
2. THE PUMP STATION SITE LAYOUT AND DESIGN SHALL MEET ALL TOWN OF HOLLY SPRINGS STANDARD REQUIREMENTS.
3. MAINTAIN ACCESS TO ALL EQUIPMENT AND STRUCTURES.
4. BOLLARDS REQUIRED FOR EQUIPMENT IN THE TRAVEL LANE.

1 OF 2

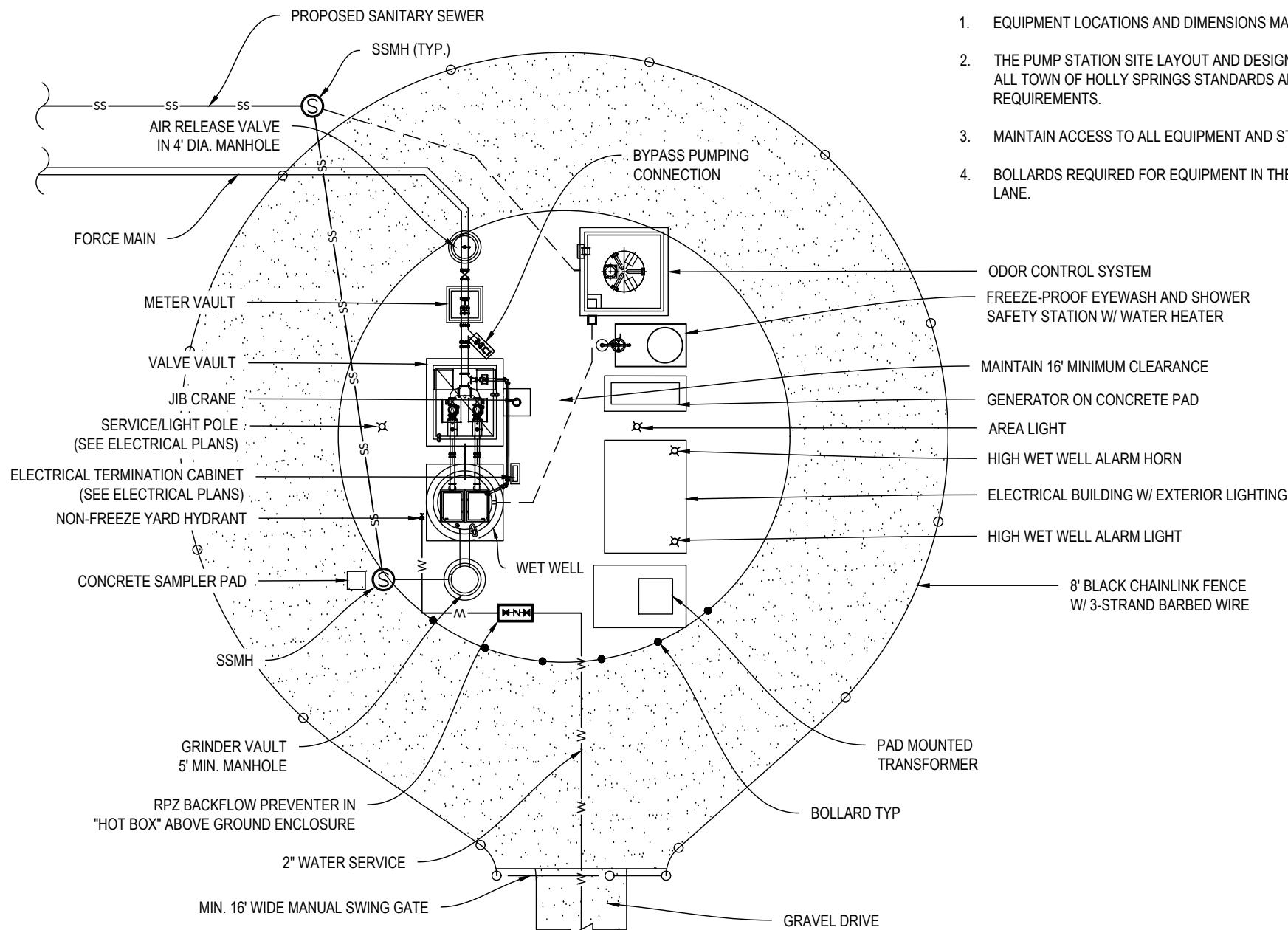
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PUMP STATION LAYOUT  $< 10$  HP

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1302	
DATE	REVISIONS
6/11/24	
11/19/24	





2 OF 2

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## TYPICAL PUMP STATION SITE LAYOUT

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1302

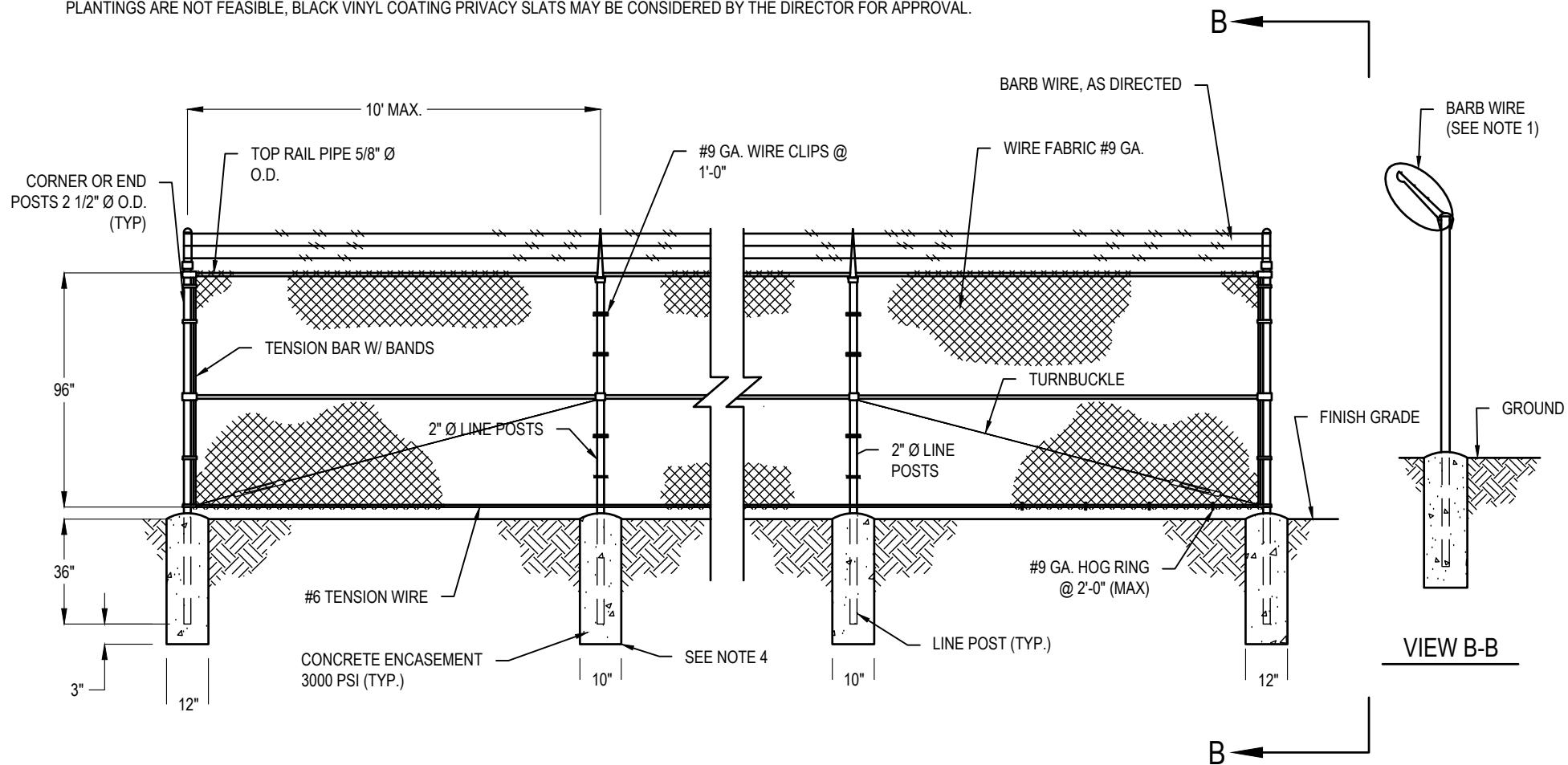
DATE REVISIONS

6/11/24 11/19/24



NOTES:

1. ADD 3 STRANDS OF BARB WIRE ALONG THE TOP OF FENCE AS DIRECTED (SEE SPECS).
2. ALL RAILS AND POSTS TO BE SCH. 40 GALV. STEEL PIPE WITH BLACK VINYL COATING.
3. POSTS TO BE SET IN CONCRETE.
4. IF ROCK IS ENCOUNTERED WHEN SETTING POSTS, DRILL HOLES 4-INCHES LARGER IN DIAMETER THAN POSTS AND BACKFILL TO GRADE WITH CLASS "B" CONCRETE.
5. PERIMETER OF FENCE SHALL BE SCREENED WITH PLANTINGS IN ACCORDANCE WITH TOWN ORDINANCES AND STANDARDS REQUIREMENTS. IF PLANTINGS ARE NOT FEASIBLE, BLACK VINYL COATING PRIVACY SLATS MAY BE CONSIDERED BY THE DIRECTOR FOR APPROVAL.



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**TYPICAL CHAIN LINK FENCE**

*TOWN OF HOLLY SPRINGS*

**STANDARD DETAIL NUMBER: HS1303**

**DATE**

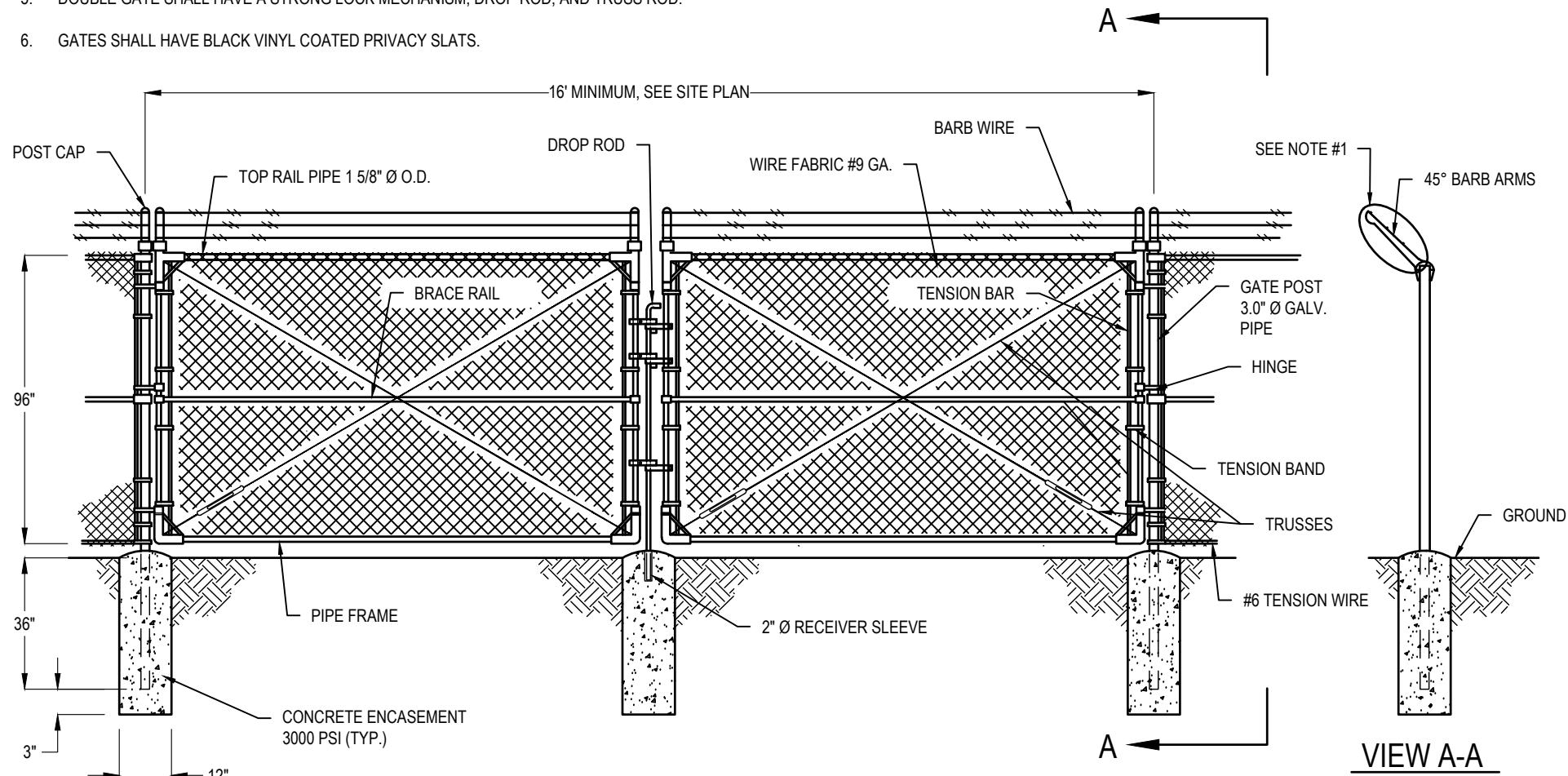
**REVISIONS**

*6/11/24*



NOTES:

1. ADD 3 STRANDS OF BARB WIRE ALONG THE TOP OF FENCE AS DIRECTED (SEE SPECS).
2. ALL RAILS AND POSTS TO BE SCH. 40 GALV. STEEL PIPE WITH BLACK VINYL COATING.
3. POSTS TO BE SET IN CONCRETE
4. IF ROCK IS ENCOUNTERED WHEN SETTING POSTS, DRILL HOLES 4-INCHES LARGER IN DIAMETER THAN POSTS AND BACKFILL TO GRADE WITH CLASS "B" CONCRETE.
5. DOUBLE GATE SHALL HAVE A STRONG LOCK MECHANISM, DROP ROD, AND TRUSS ROD.
6. GATES SHALL HAVE BLACK VINYL COATED PRIVACY SLATS.



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**TYPICAL SECURITY DOUBLE GATE**

*TOWN OF HOLLY SPRINGS*

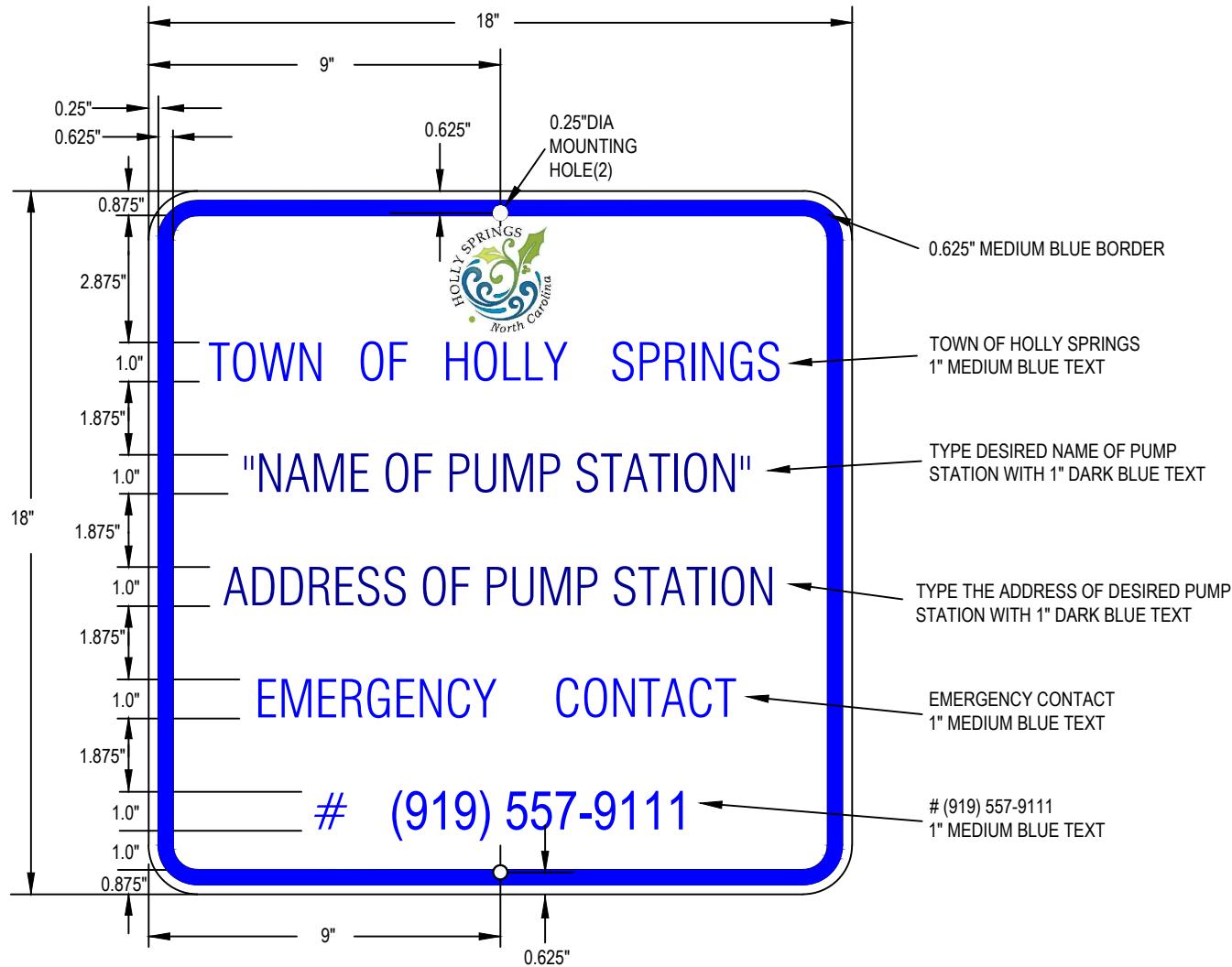
**STANDARD DETAIL NUMBER: HS1304**

**DATE**

**REVISIONS**

**6/11/24**





NOTES:

1. 18" x 18" NON-REFLECTIVE 18 GAUGE STEEL
2. TEXT TO BE CENTERED ON SIGN

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STANDARD PUMP STATION LOCATION SIGN

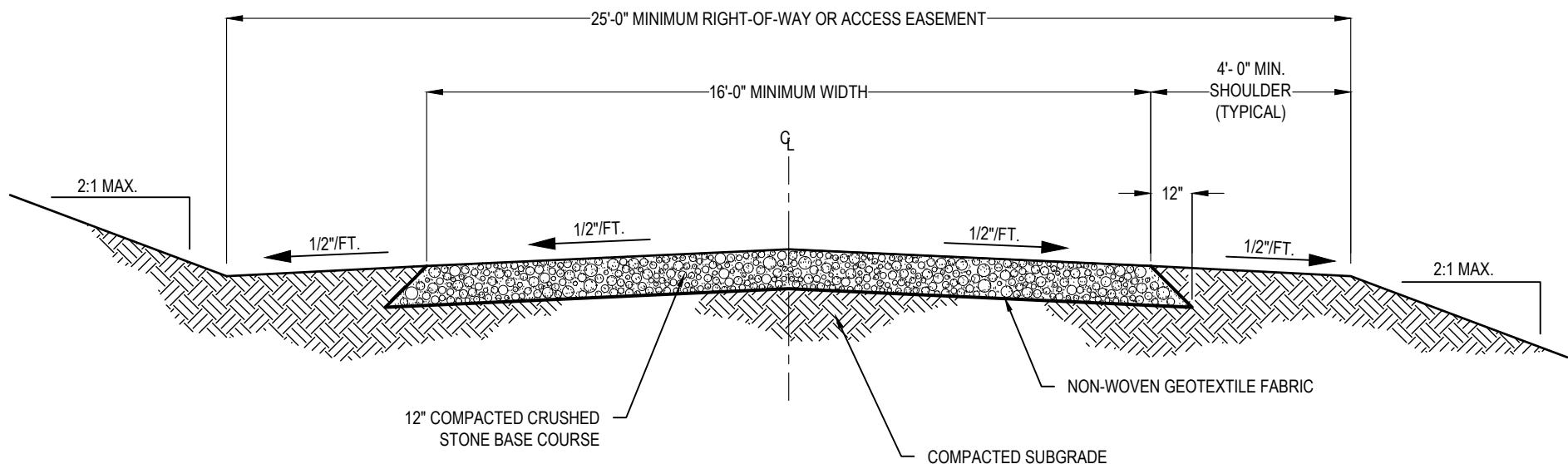
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1305

DATE      REVISIONS

7/24/09
6/11/24





NOTES:

1. MAXIMUM ROADWAY SHALL BE 10%.
2. THE SITE SHALL FEATURE ADEQUATE TURN AROUND AREAS FOR SERVICE VEHICLES IN ACCORDANCE WITH SPECIFICATION SECTION 13.
3. MUST HAVE POSITIVE DRAINAGE.

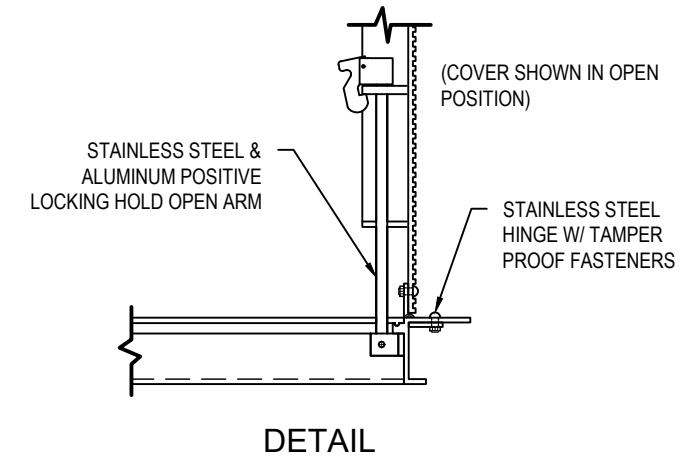
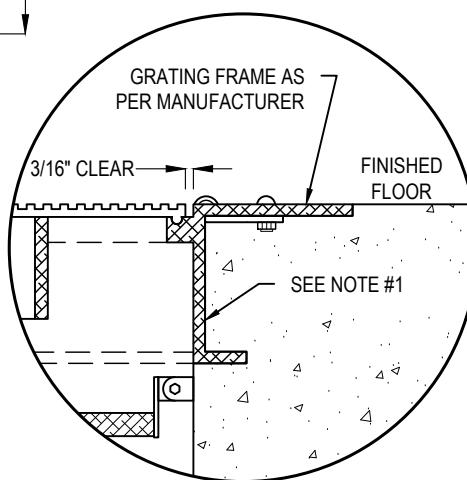
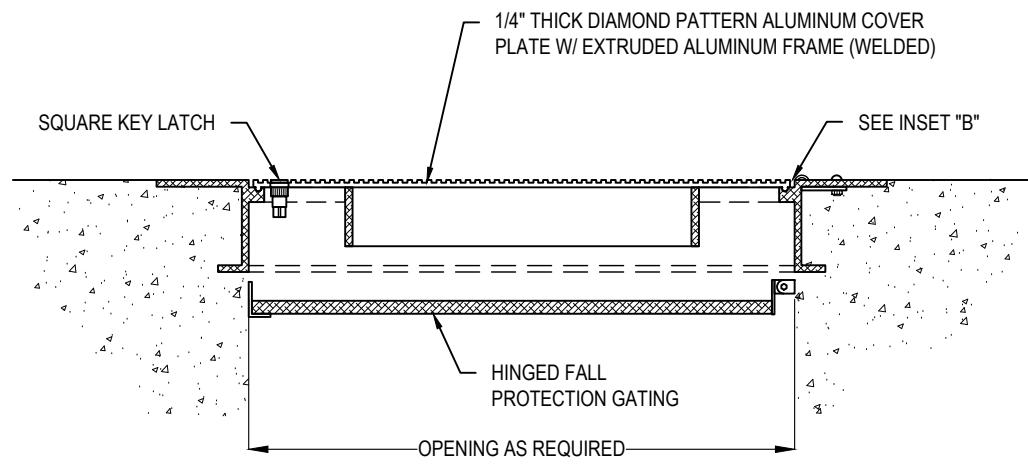
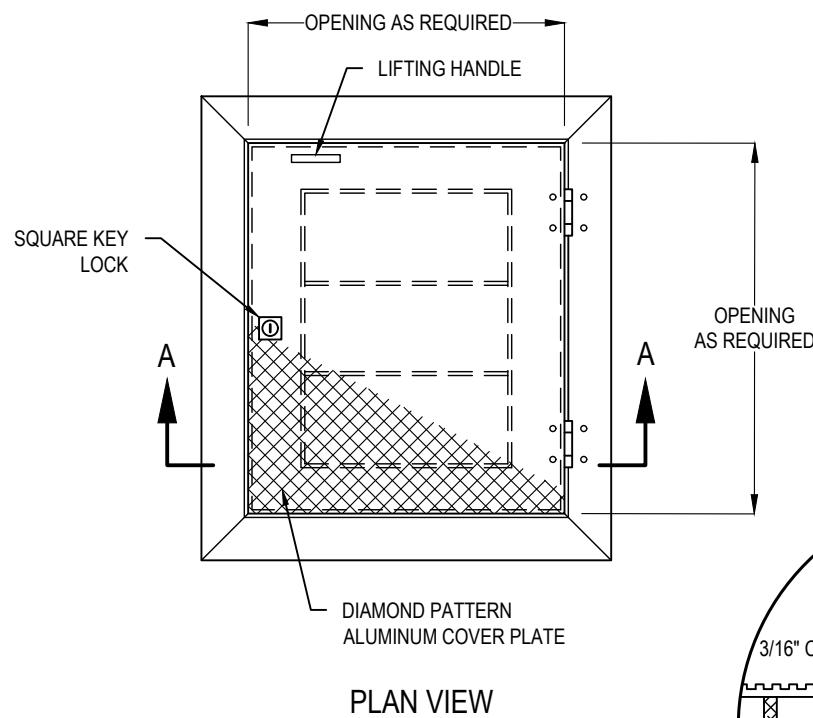
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PUMP STATION ACCESS ROAD

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1306	
DATE	REVISIONS
6/11/24	





NOTES:

1. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE OR GROUT SHALL BE COATED WITH BITUMINOUS MATERIAL FOR PROTECTION.
2. HATCHES SHALL BE SINGLE OR DOUBLE HATCH DEPENDING ON OPENING SIZE AND MANUFACTURER'S RECOMMENDATIONS.

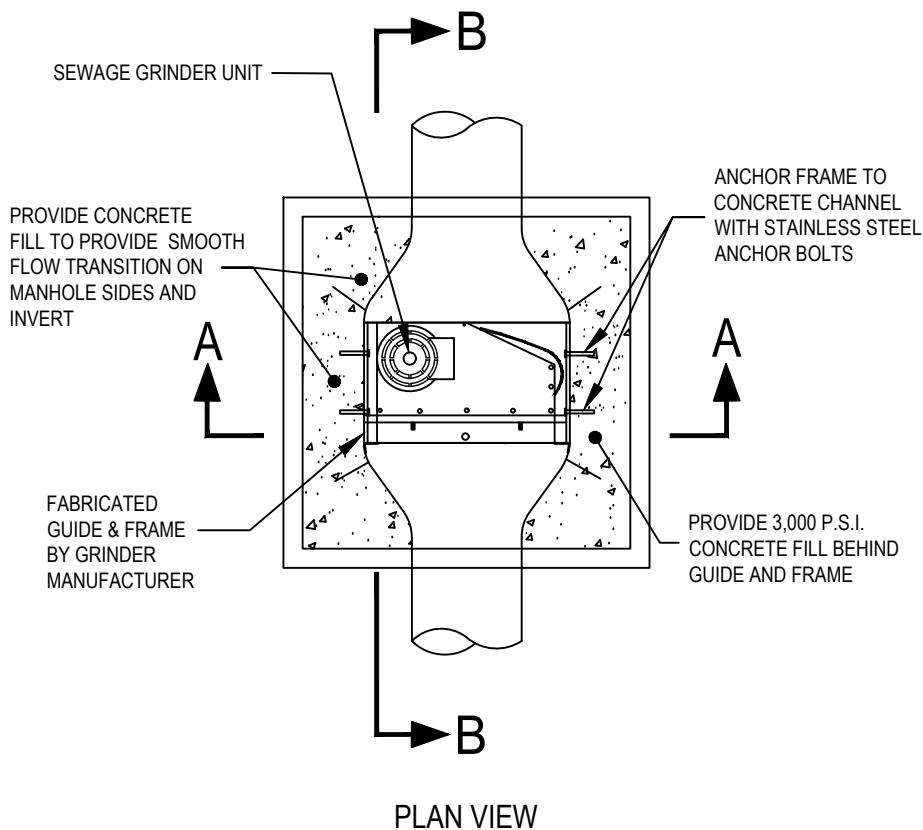
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WET WELL HATCH

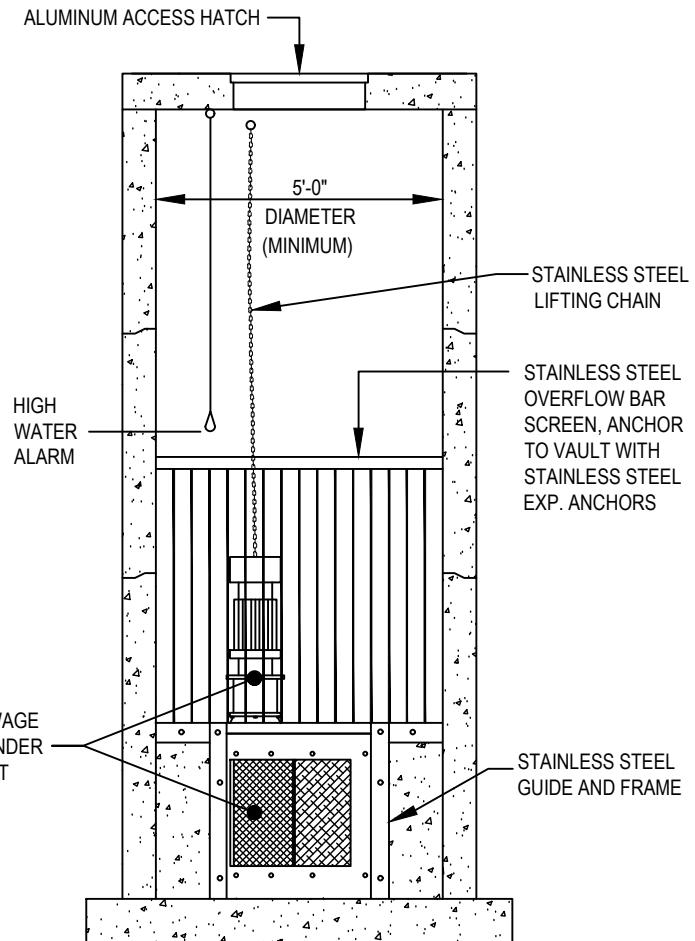
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1307	
DATE	REVISIONS
6/11/24	





SEE SHEET 2 OF 2 FOR SECTION "B-B"



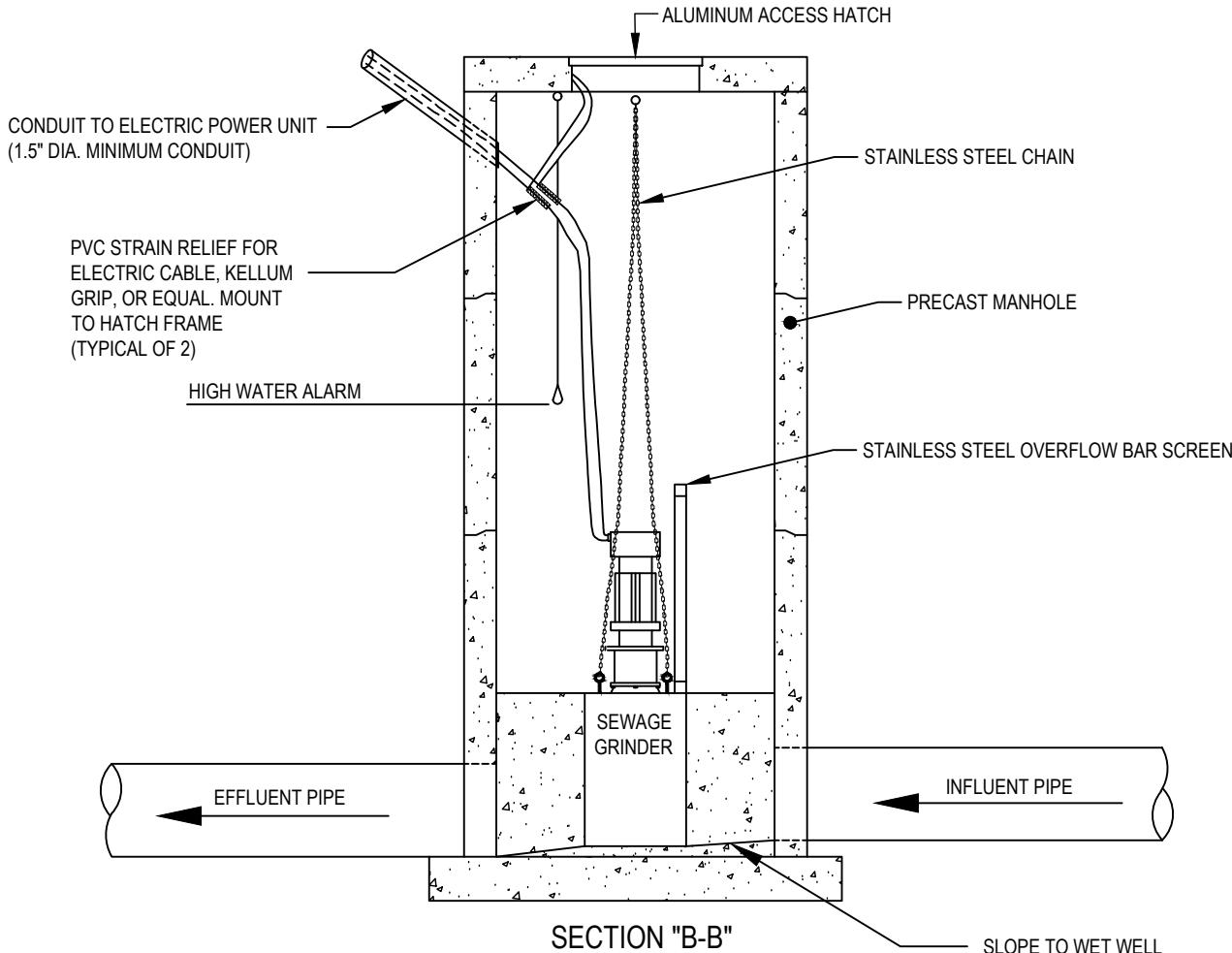
NOTES:

1. THERE SHALL ONLY BE A SINGLE INFLUENT LINE INTO THE GRINDER VAULT.
2. ALUMINUM ACCESS HATCH SHALL BE SIZED TO ALLOW INSTALLATION AND REMOVAL OF GRINDER UNIT.
3. COAT INTERIOR OF VAULT WITH APPROVED EPOXY OR POLYURETHANE COATING APPLIED PER THE MANUFACTURER'S SPECIFICATIONS. COATINGS SHALL CONFORM TO TOWN OF HOLLY SPRINGS STANDARDS SECTION 13.

**SEWAGE GRINDER VAULT**

*TOWN OF HOLLY SPRINGS*

STANDARD DETAIL NUMBER: HS1308	
DATE	REVISIONS
8/30/19	
8/17/23	RJR/TF
6/11/24	



SEE SHEET 1 OF 2 FOR SECTION "A-A"

NOTES:

1. ALUMINUM ACCESS HATCH SHALL BE SIZED TO ALLOW INSTALLATION AND REMOVAL OF GRINDER UNIT.

2 OF 2

DRAWING NOT TO SCALE

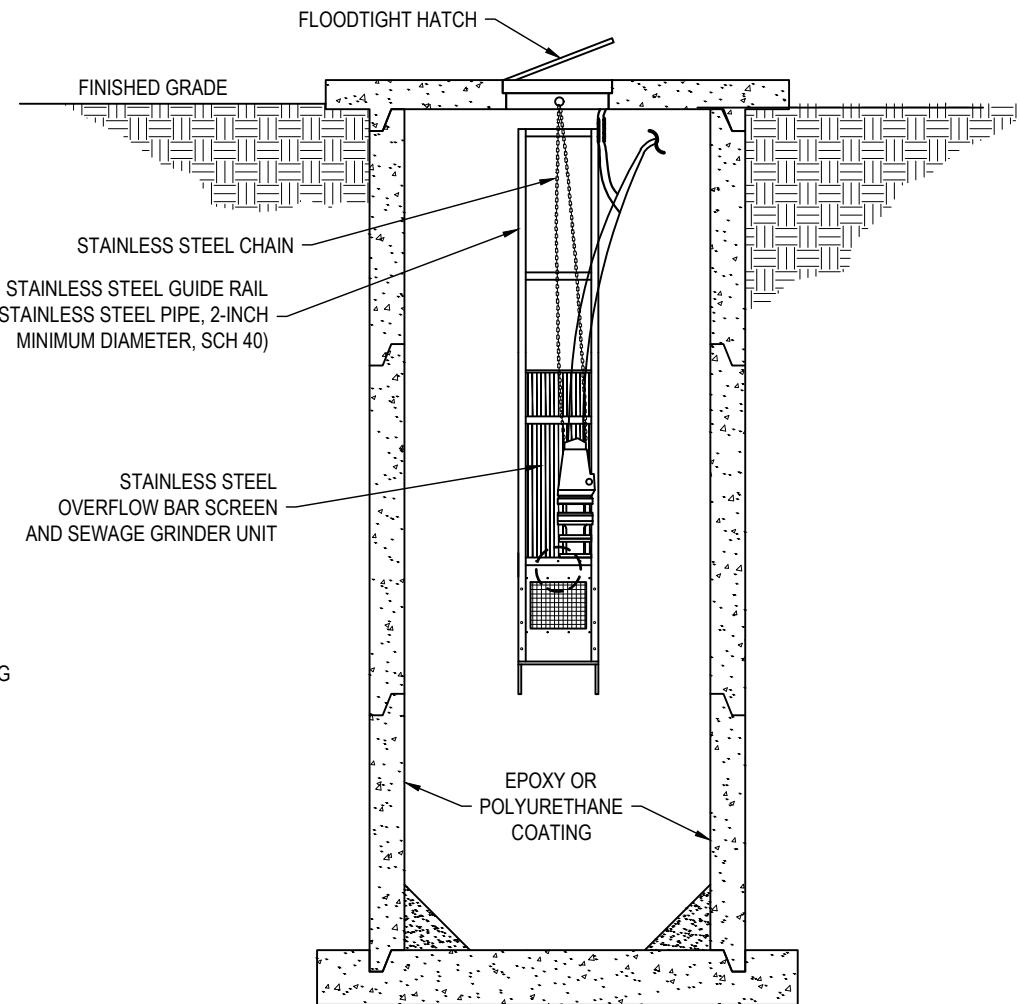
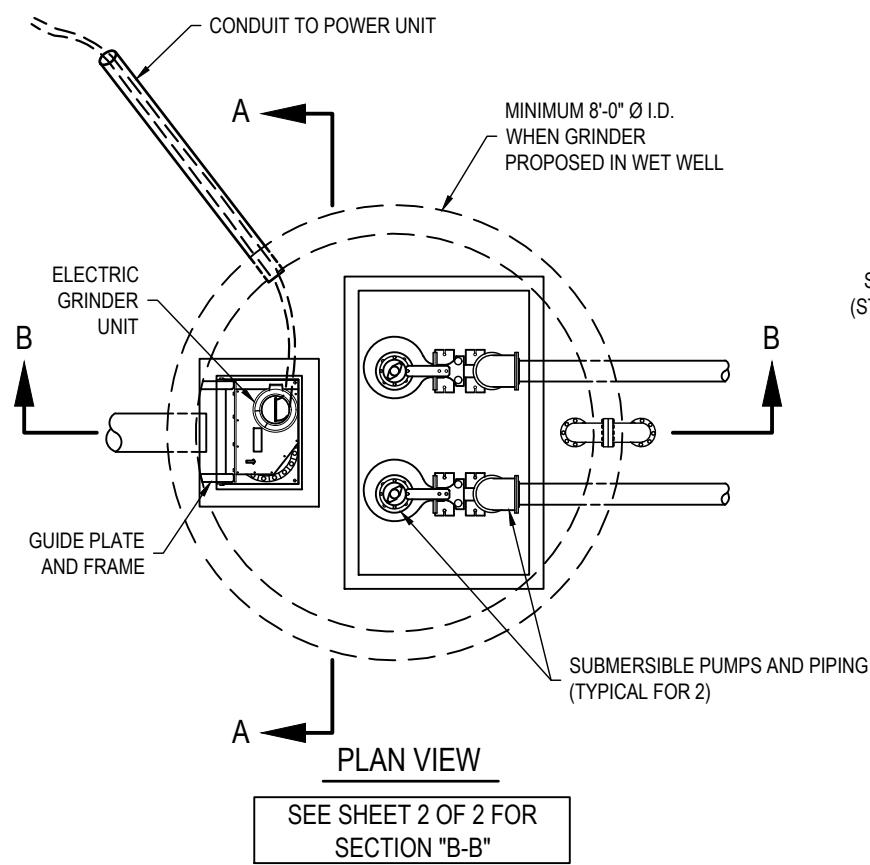
SEWAGE GRINDER VAULT

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1308

DATE	REVISIONS
8/30/19	
8/17/23	RJ/RJ/TF
6/11/24	





NOTE:

1. ACCESS HATCH SHALL BE SIZED TO ALLOW FOR INSTALLATION AND REMOVAL OF GRINDER UNIT.
2. ALL BOLTED CONNECTION (INCLUDING PIPE FLANGES) INSIDE THE WETWELL SHALL BE MADE USING STAINLESS STEEL BOLTS, NUTS, AND WASHERS.
3. ALL WETWELLS MUST BE CONCENTRIC.
4. ENGINEER SHALL ENSURE WETWELL HAS SUFFICIENT CONCRETE FOR ANCHORING. BUOYANCY CALCULATIONS SHALL BE SUBMITTED.
5. STATION SHALL MEET REQUIREMENTS IN THE TOWN'S STANDARD RELATED TO ELEVATION AND/OR PROTECTION FROM FLOODING.

**SECTION "A-A"**

SEE SHEET 2 OF 2 FOR  
SECTION "B-B"

**SEWAGE GRINDER UNIT (WET WELL INSTALLATION)**

**TOWN OF HOLLY SPRINGS**

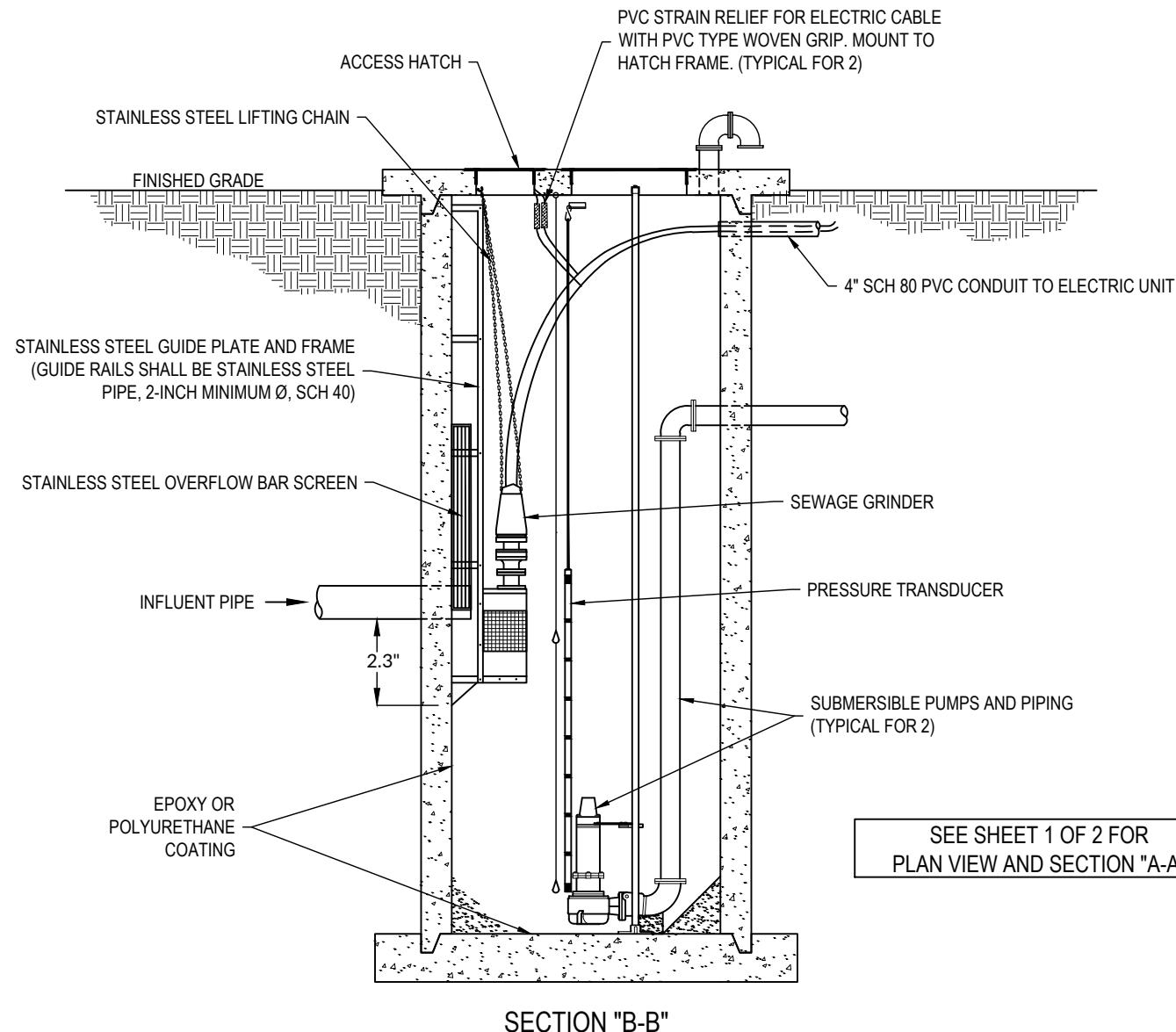
**STANDARD DETAIL NUMBER: HS1309**

**DATE** **REVISIONS**

3/23/21

6/11/24

1 OF 2  
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SECTION "B-B"

2 OF 2

DRAWING NOT TO SCALE

SEWAGE GRINDER UNIT (WET WELL INSTALLATION)

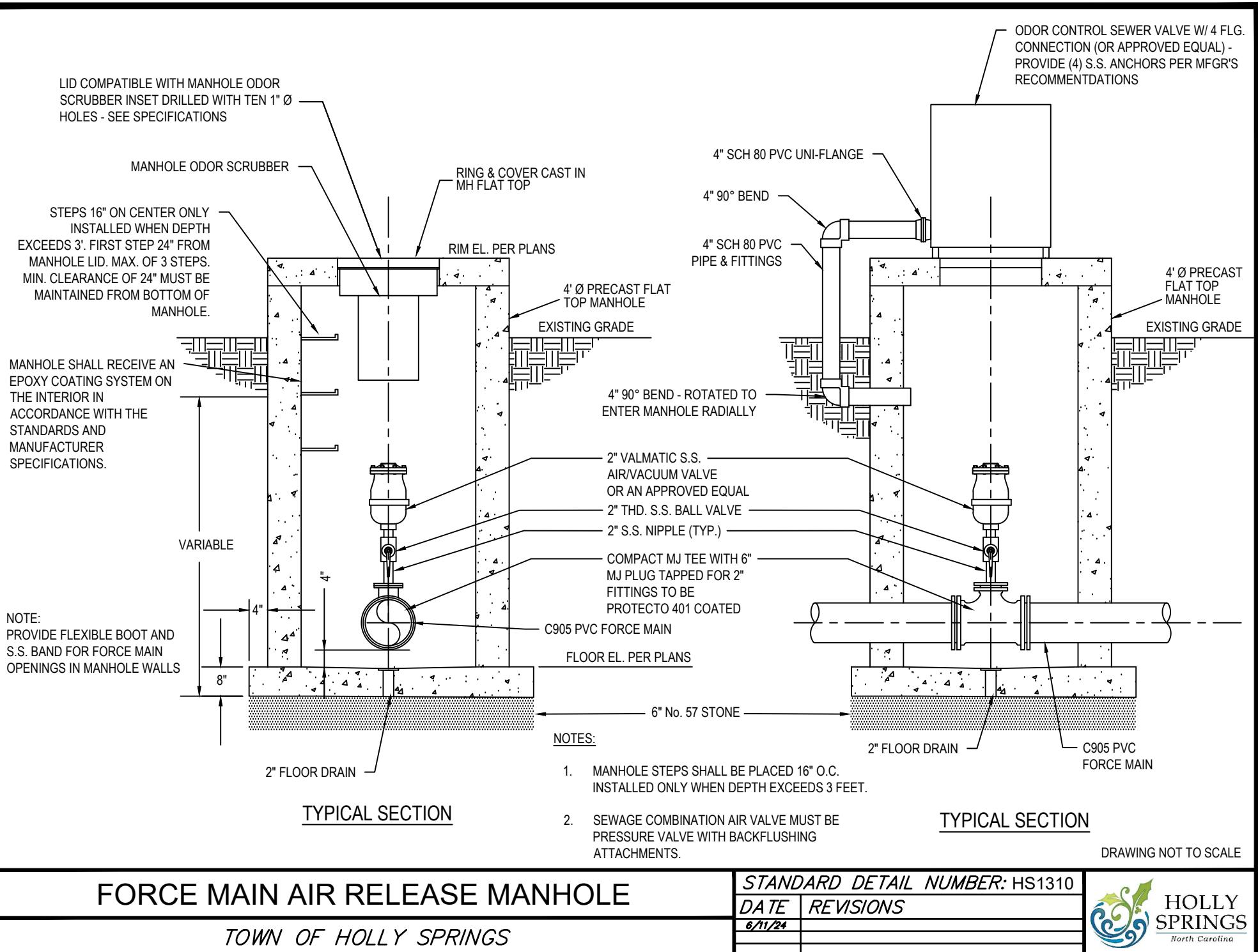
TOWN OF HOLLY SPRINGS

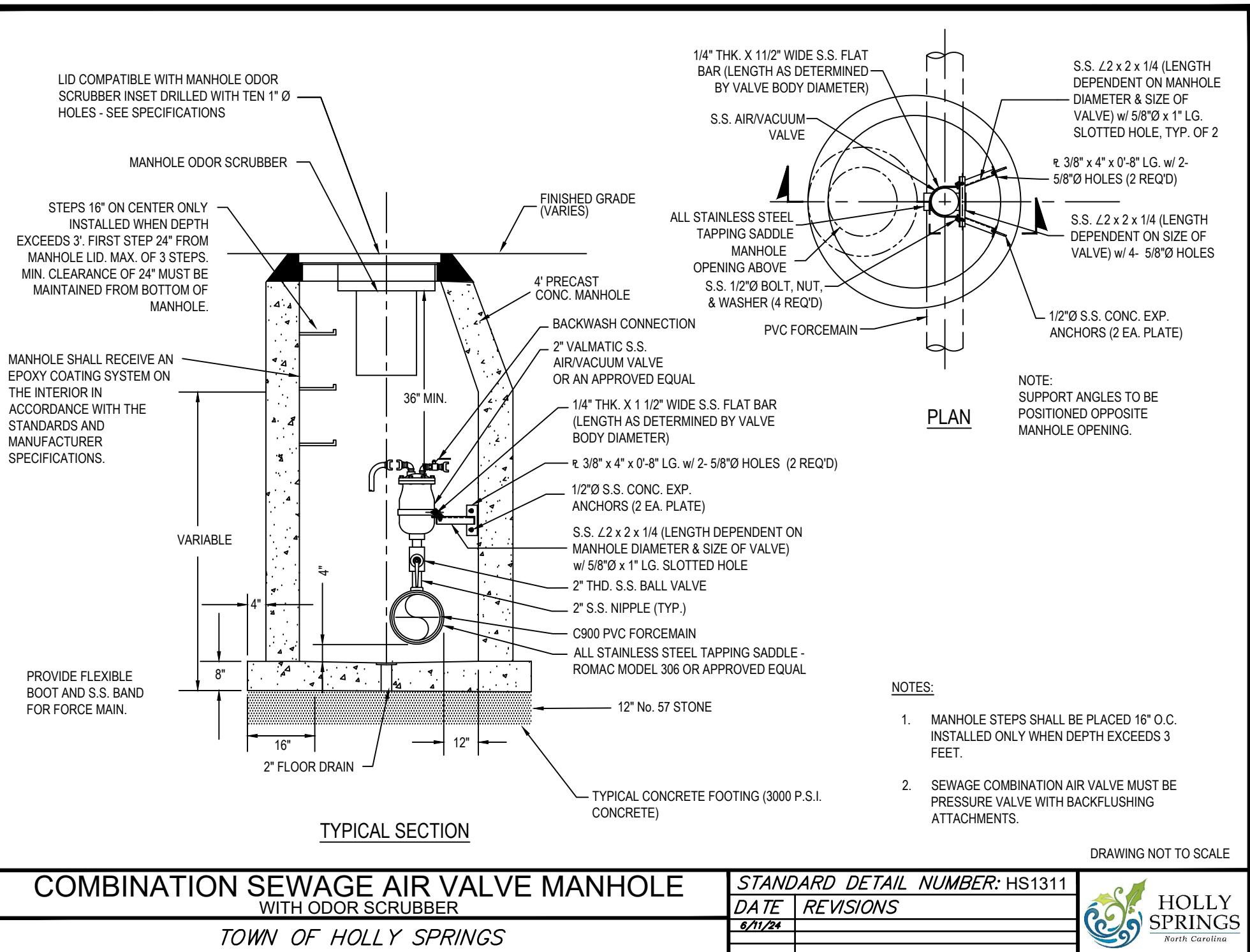
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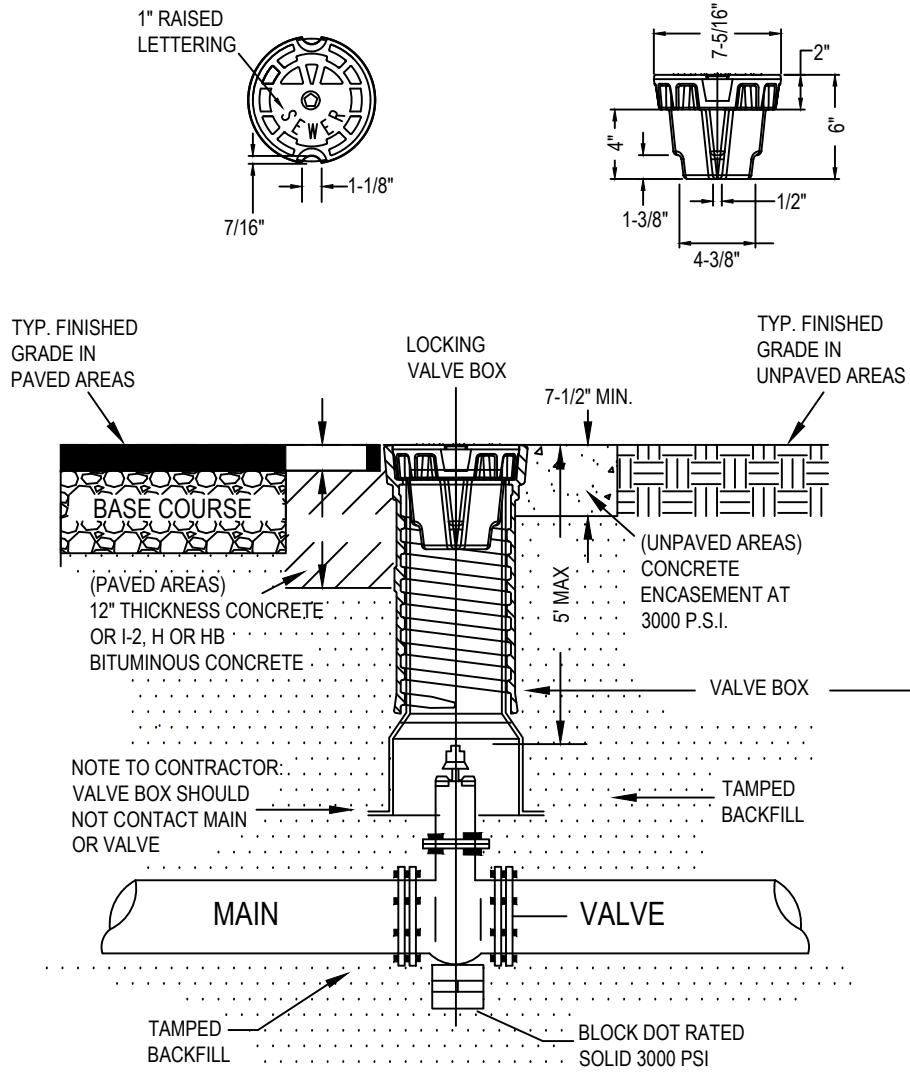
DATE REVISIONS

3/23/21  
6/11/24

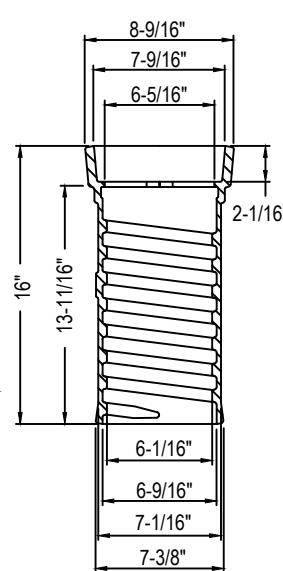
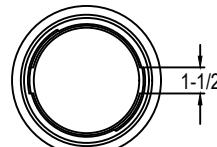
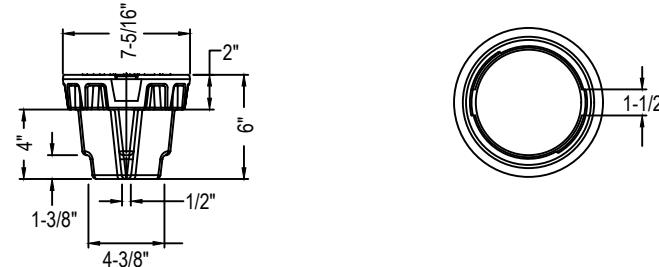




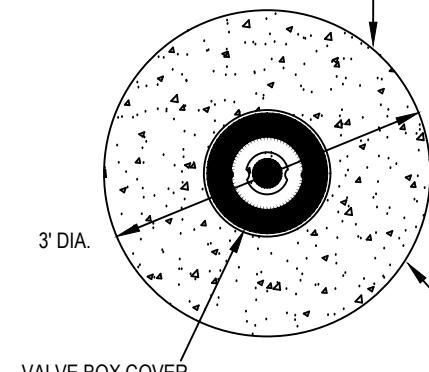




SECTION



(PAVED AREAS)  
12" THICKNESS I-2, H OR HB  
BITUMINOUS CONCRETE



CONCRETE  
ENCASEMENT  
AT 3000 P.S.I.

PLAN

NOTES:

1. D.I.P. SHALL BE USED FOR VALVE BOX EXTENSIONS, PVC MAY BE SUBSTITUTED IN NON-TRAFFIC AREAS.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.
4. DOMESTIC MADE IN USA.

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SEWER VALVE BOX INSTALLATION

TOWN OF HOLLY SPRINGS

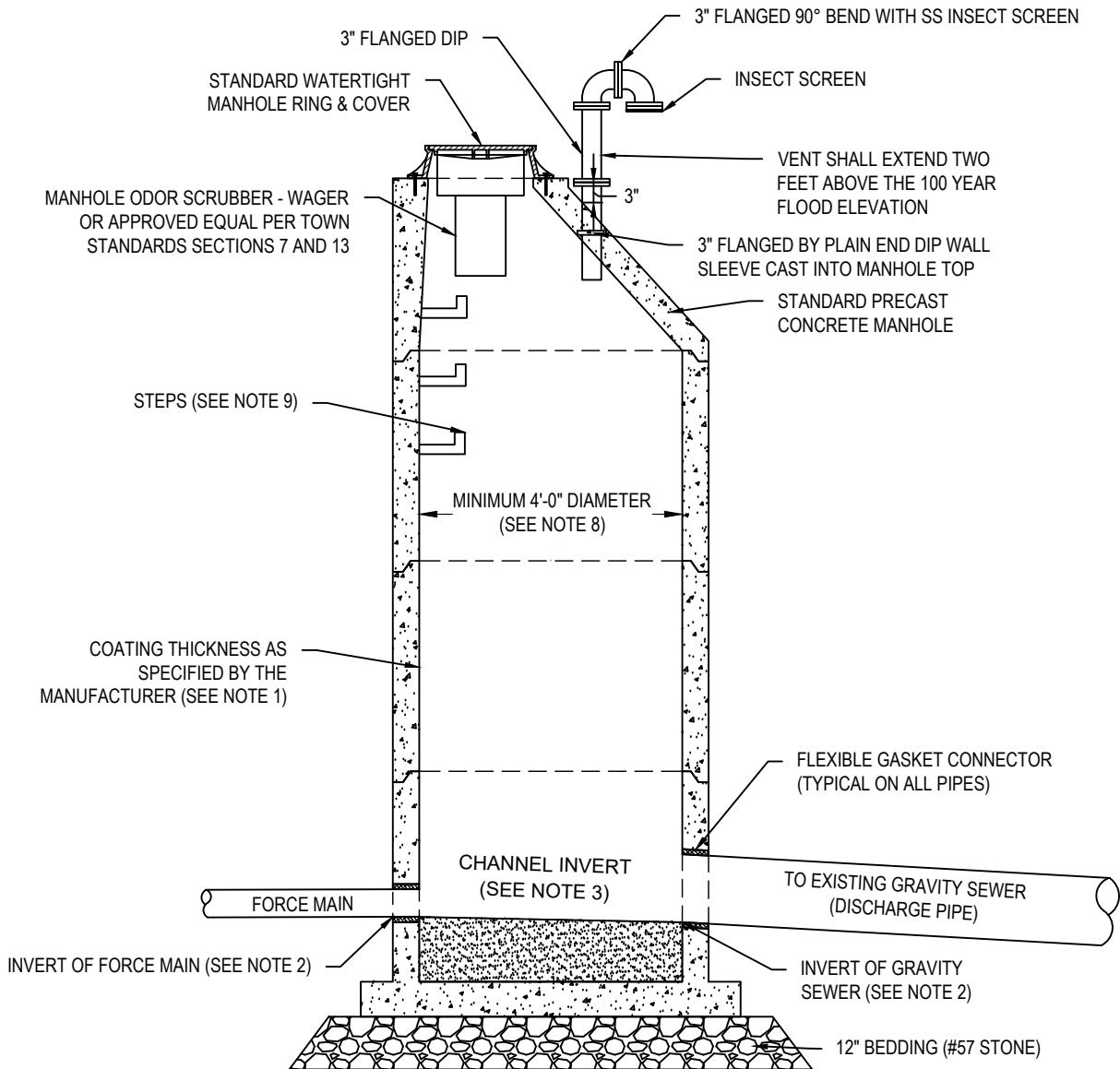
STANDARD DETAIL NUMBER: HS1312

DATE	REVISIONS
8/30/19	
9/22/23	RJ/RJ
6/11/24	



NOTES:

1. COAT INTERIOR OF MANHOLE WITH APPROVED EPOXY OR POLYURETHANE COATING APPLIED PER THE MANUFACTURER'S SPECIFICATIONS. COATINGS SHALL CONFORM TO TOWN OF HOLLY SPRINGS STANDARDS SECTION 13.
2. ELEVATION OF FORCE MAIN INVERT SHALL BE 1/10 OF A FOOT HIGHER THAN GRAVITY DISCHARGE INVERT ELEVATION. INSTALLATIONS GREATER THAN 10-FT WILL REQUIRE APPROVAL BY THE DIRECTOR.
3. PROVIDE SMOOTH CHANNEL FROM FORCE MAIN TO GRAVITY SEWER.
4. FORCE MAINS SHALL BE CONSTRUCTED OF C900 PVC PIPE AND SHALL CONFORM TO TOWN STANDARDS SECTION 13.
5. ANY DUCTILE IRON PIPE SHALL BE LINED WITH PROTECTO 401 AND CONFIRM TO ALL CRITERIA IN TOWN STANDARDS SECTION 13.
6. ALL FORCE MAINS SHALL BE SUBJECTED TO A HYDROSTATIC TEST ACCORDING TO THE PROVISIONS OF TOWN STANDARDS SECTION 13.
7. A CHECK VALVE AND PLUG VALVE SHALL BE PROVIDED FOR THE DISCHARGE LINE OF EACH PUMP.
8. MANHOLE DIAMETER SHALL BE CAPABLE OF RECEIVING FLOW WITHOUT EXCEEDING 50% SURCHARGE CONDITIONS IN THE EXISTING GRAVITY SEWER.
9. STEPS 16" ON CENTER ONLY INSTALLED WHEN DEPTH EXCEEDS 3'. FIRST STEP 24" FROM MANHOLE LID. MAXIMUM OF 3 STEPS. MINIMUM CLEARANCE OF 24" MUST BE MAINTAINED FROM BOTTOM OF MANHOLE.



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## FORCE MAIN DISCHARGE MANHOLE

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS1313

DATE	REVISIONS
8/30/19	
6/21/23	RJ
6/11/24	

