

30% DESIGN PLANS FOR:  
**LOS OLIVOS**  
CALIFORNIA  
EFFLUENT SEWER WASTEWATER COLLECTION SYSTEM

DRAWING INDEX

SHEET  
NUMBER SHEET NAME

C000 TEMPORARY  
C101 COVER SHEET  
C102 SYSTEM OVERVIEW  
C103 ZONES 1-3  
C104 ZONES 4-5  
C105 ZONE 6  
C106 EXAMPLE OM LOT TANK DETAILS  
C107 EFFLUENT SEWER DETAILS  
C108 EFFLUENT SEWER DETAILS

LEGEND

CIVIL	
(ELEV.)	EXISTING ELEV.
ELEV.	NEW ELEV.
—	EXISTING WATER
—	EXISTING WATERMAIN
—	NEW WATER
—	EXISTING STORM SEWER (STS)
—	NEW STORM SEWER (STS)
—	EXISTING SANITARY SEWER (SS)
—	NEW SANITARY SEWER (SS)
—	EXISTING PRESSURE SEWER (PS)
—	NEW PRESSURE SEWER (PS)
—	EXISTING FORCEMAIN (FM)
—	NEW FORCEMAIN (FM)
—	KITCHEN WASTE LINE (KW)
—	NEW ELECTRICAL CONDUIT
○	CLEANOUT
⊗	EXISTING VALVE
□	NEW VALVE
○	EXISTING MANHOLE (MH)
⊗	NEW MANHOLE (MH)
MECHANICAL	
—	UNION
—	BALL VALVE
—	CHECK VALVE
—	PIPE BREAK
—	PIPE RISE
—	PIPE DROP
—	PIPE END CAP

CONTACT INFO

ENGINEERING FIRM:

ADDRESS:  
PHONE:  
CONTACT:

REGEN, PLLC

213 S 11TH STREET  
BOISE, ID 83702  
(541) 580-2280  
TRISTIAN BOUNDS

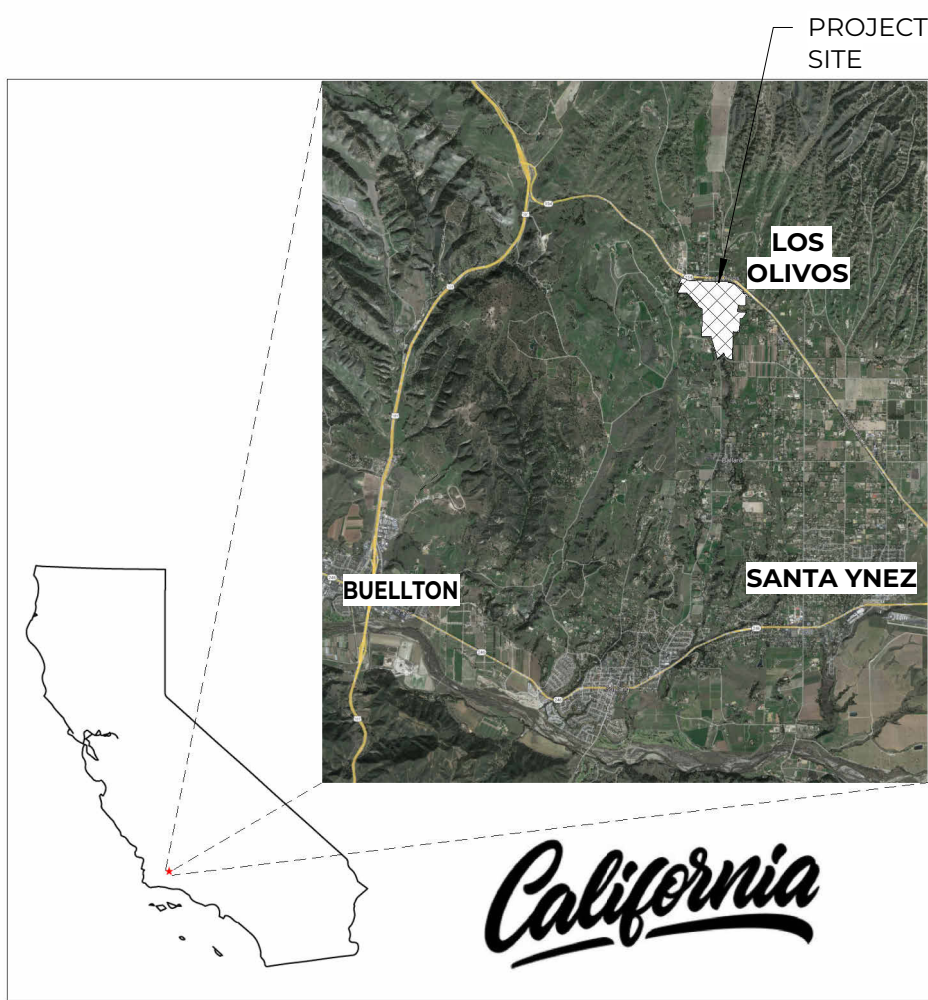
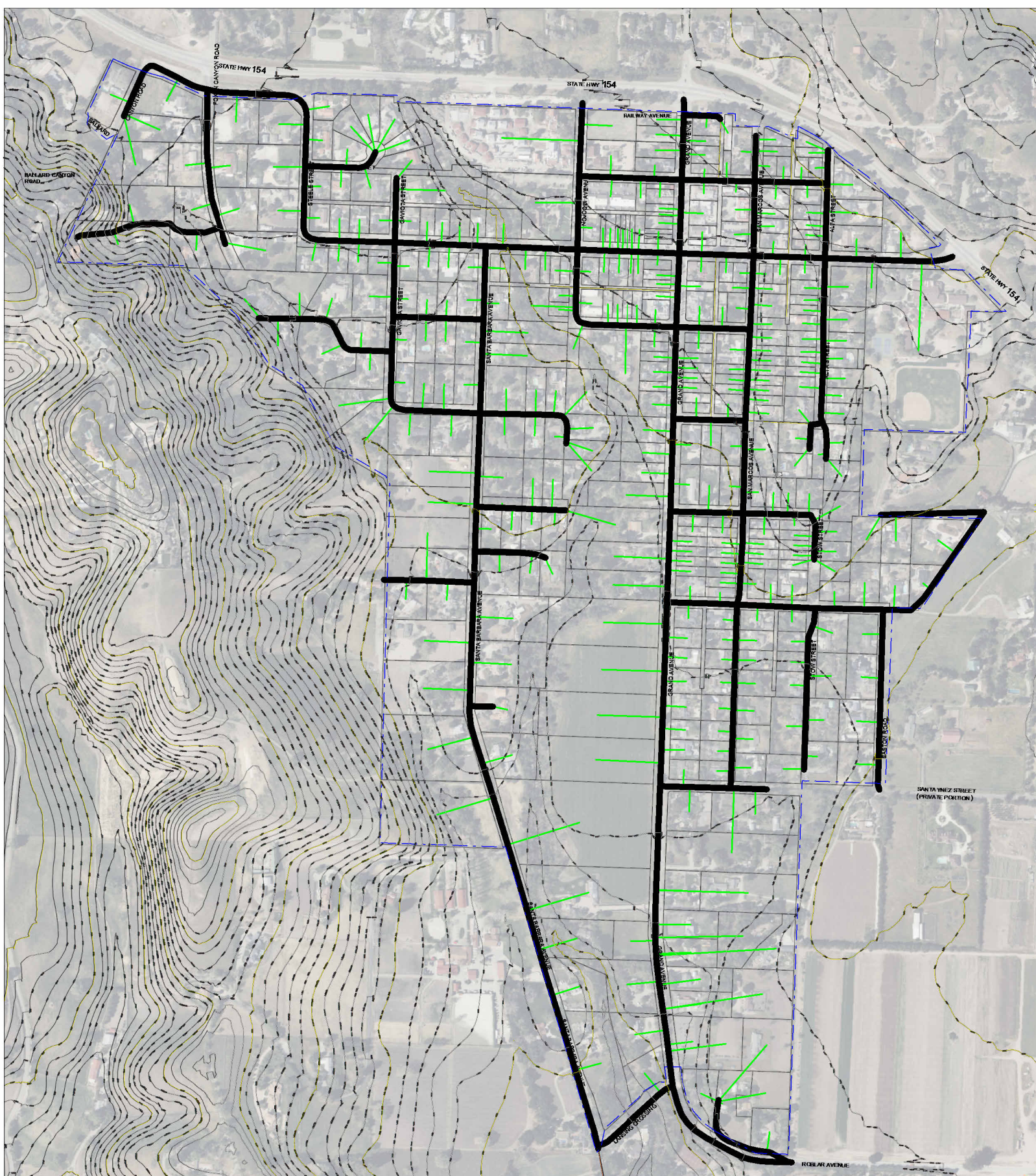
OWNER:

ADDRESS:  
PHONE:  
CONTACT:

LOS OLIVOS

LOS OLIVOS  
SERVICE DISTRICT  
(000) 000-0000  
GUY SAVAGE

OVERALL SITE PLAN



PLAN SPECIFICATIONS

SYSTEM DESCRIPTION:

THESE PLANS DEPICT THE PRELIMINARY DESIGN OF THE WASTEWATER COLLECTION AND TREATMENT SYSTEM SERVICING THE SPRING ROCK DEVELOPMENT, LOCATED IN ADA COUNTY, IDAHO STATE. SPRING ROCK DEVELOPMENT IS A PRIVATE COMMUNITY LOCATED ALONG TENMILE CREEK RD WITHIN THE CITY OF KUNA, ID.

COMPLIANCE:

THE SYSTEM DESIGN WILL ADHERE TO CALIFORNIA STATE AND SANTA BARBRA COUNTY REQUIREMENTS AS PRESCRIBED IN CALIFORNIA.

TOPOGRAPHIC SURVEY NOTES:

- LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORD INFORMATION.
- ALL ELEVATIONS DISTANCES ARE IN FEET.
- ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.



LOS OLIVOS  
30% DESIGN PLANS  
LOS OLIVOS, CA

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Revision		
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Project number	22031
Date	5.8.24
Drawn by	JS
Checked by	NTB

PRELIMINARY DESIGN

COVER  
SHEET

C101

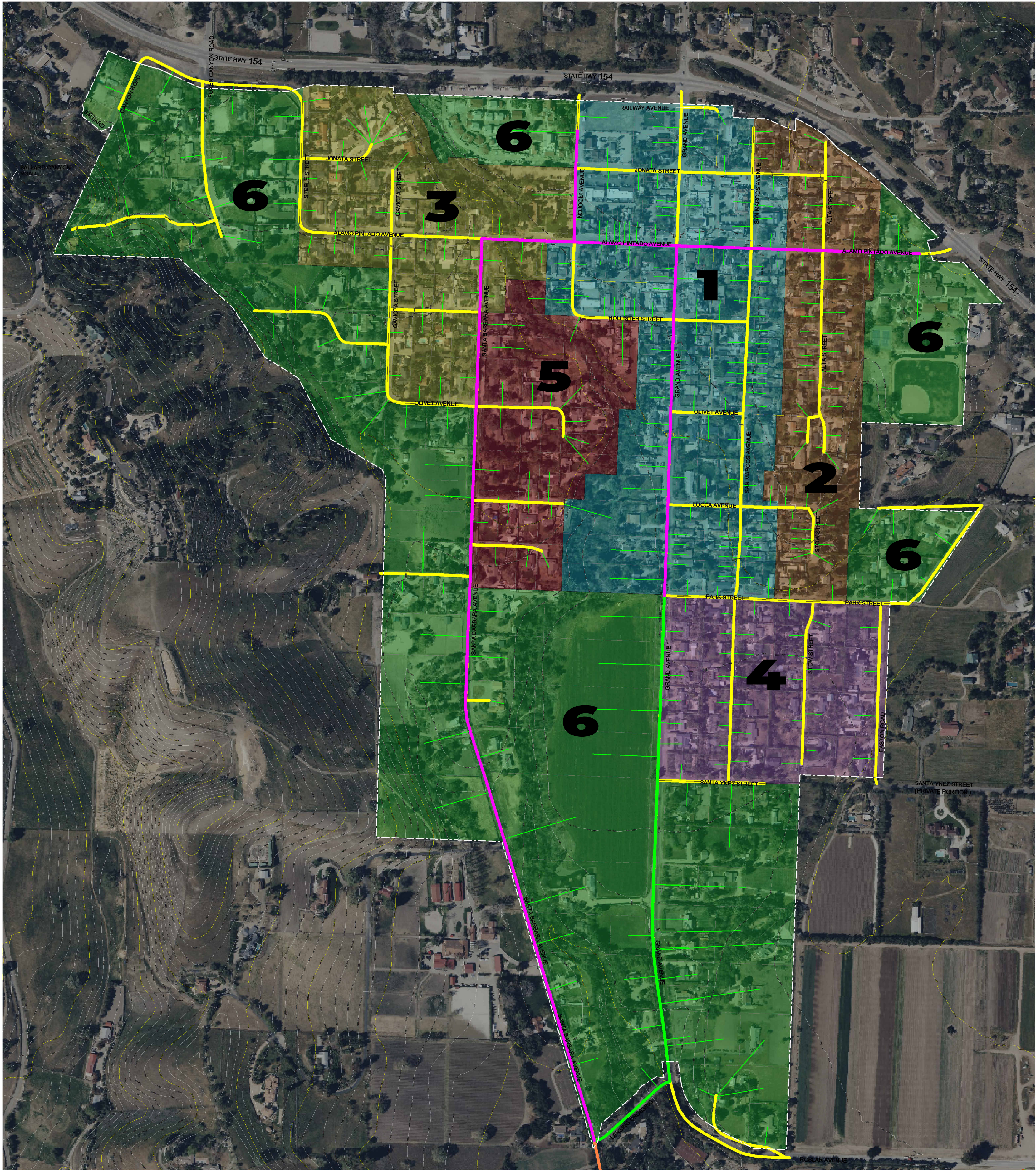
DRY UTILITIES NOTE:

DRY UTILITIES (ELECTRICITY, TELEPHONE, GAS, CABLE TV) SHOWN HEREON ARE APPROXIMATE. DESIGN SHALL BE BY THE SURVEYORS, AND INSTALLATION PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY COMPANIES IN THE TIMING AND INSTALLATION OF UTILITIES.

BEFORE YOU DIG, CALL



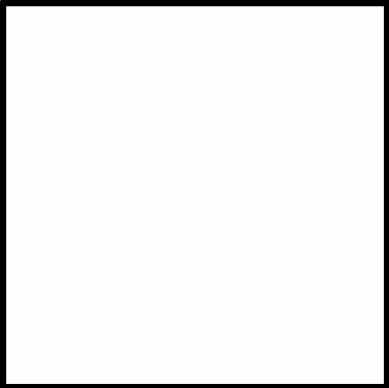




OVERALL LEGEND

- 2' Ø PIPE
- 3' Ø PIPE
- 4' Ø PIPE
- 6' Ø PIPE
- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- ZONE 5
- ZONE 6

1 OVERALL SITE PLAN  
1" = 300'-0"



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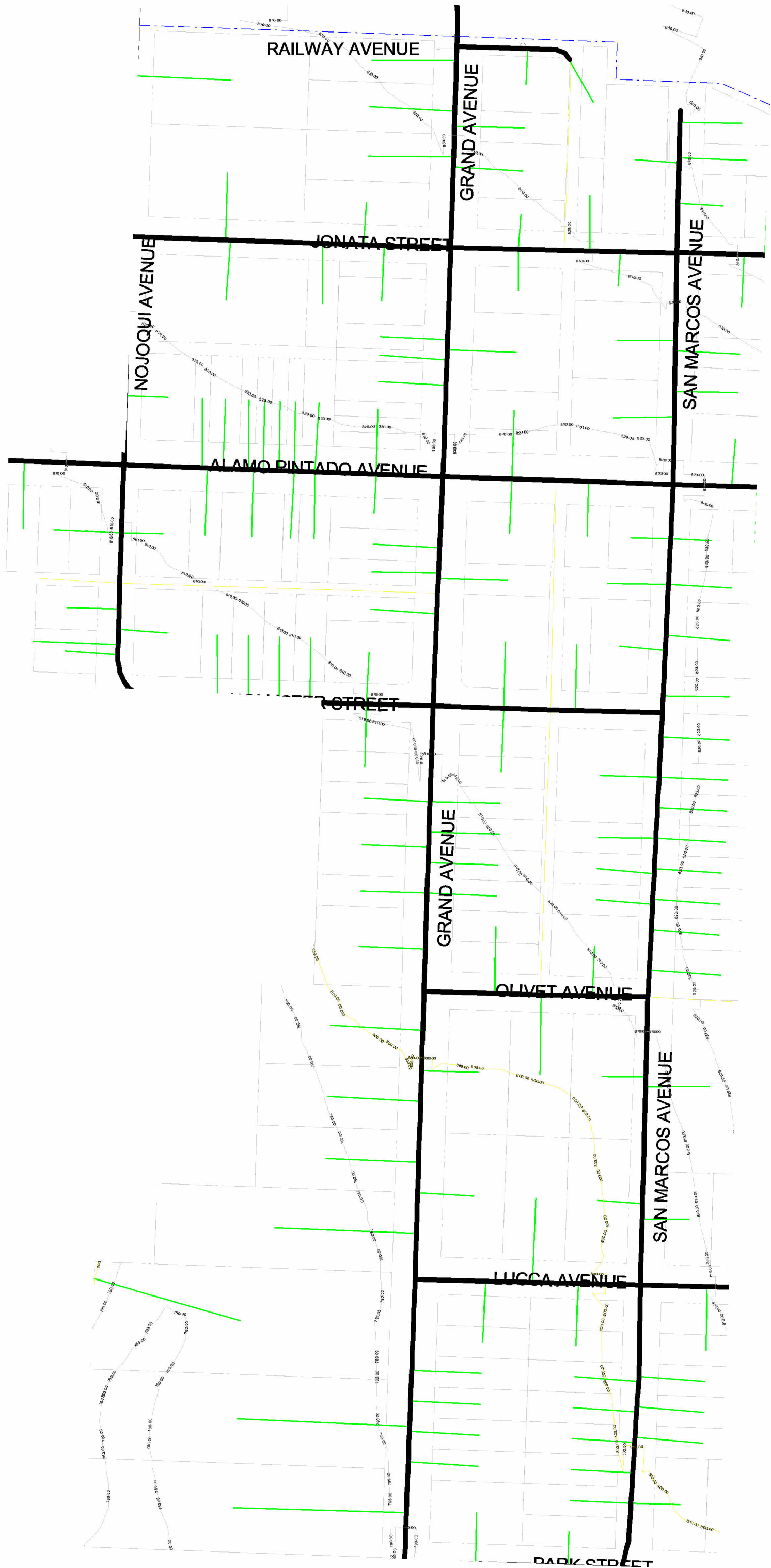
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PRELIMINARY DESIGN

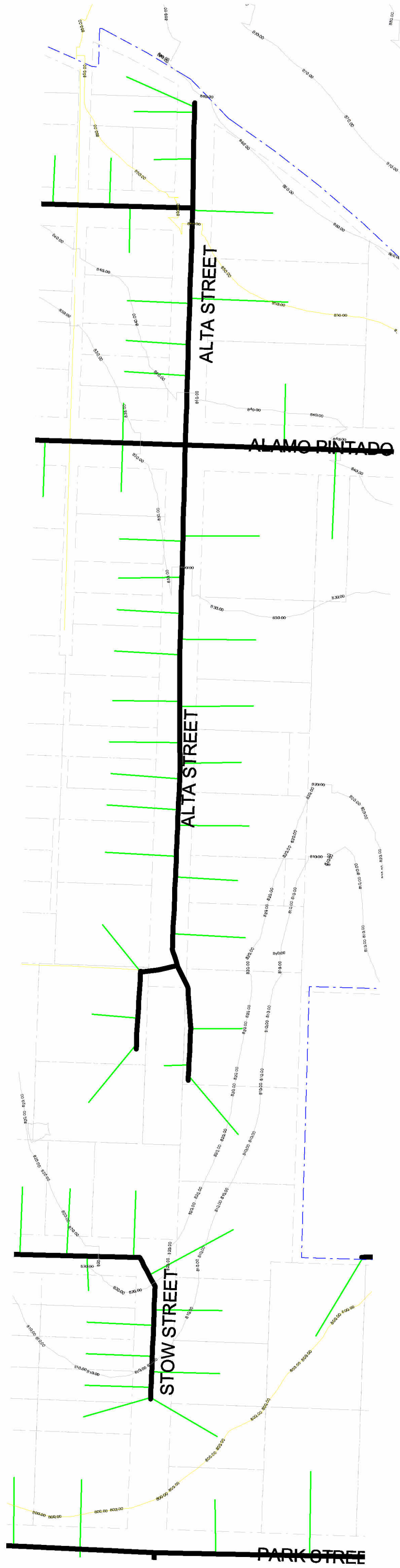
SYSTEM  
OVERVIEW

C102





**1 ZONE 1**  
1" = 160'-0"

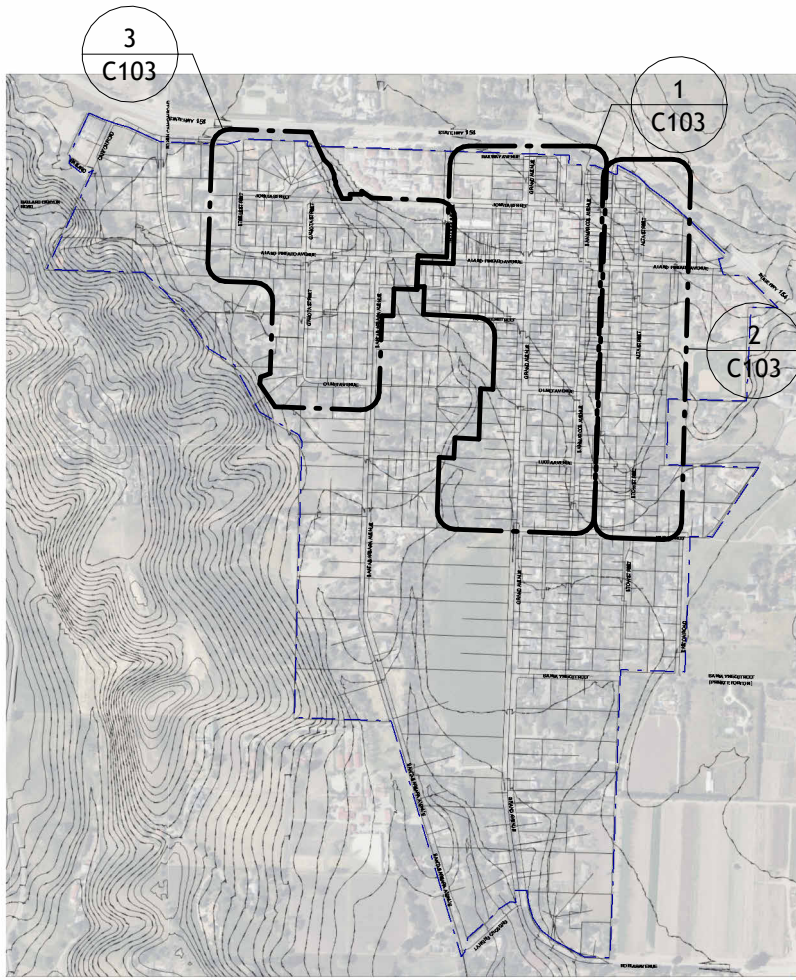


**2 ZONE 2**  
1" = 160'-0"



**3 ZONE 3**  
1" = 160'-0"

**KEY PLAN**



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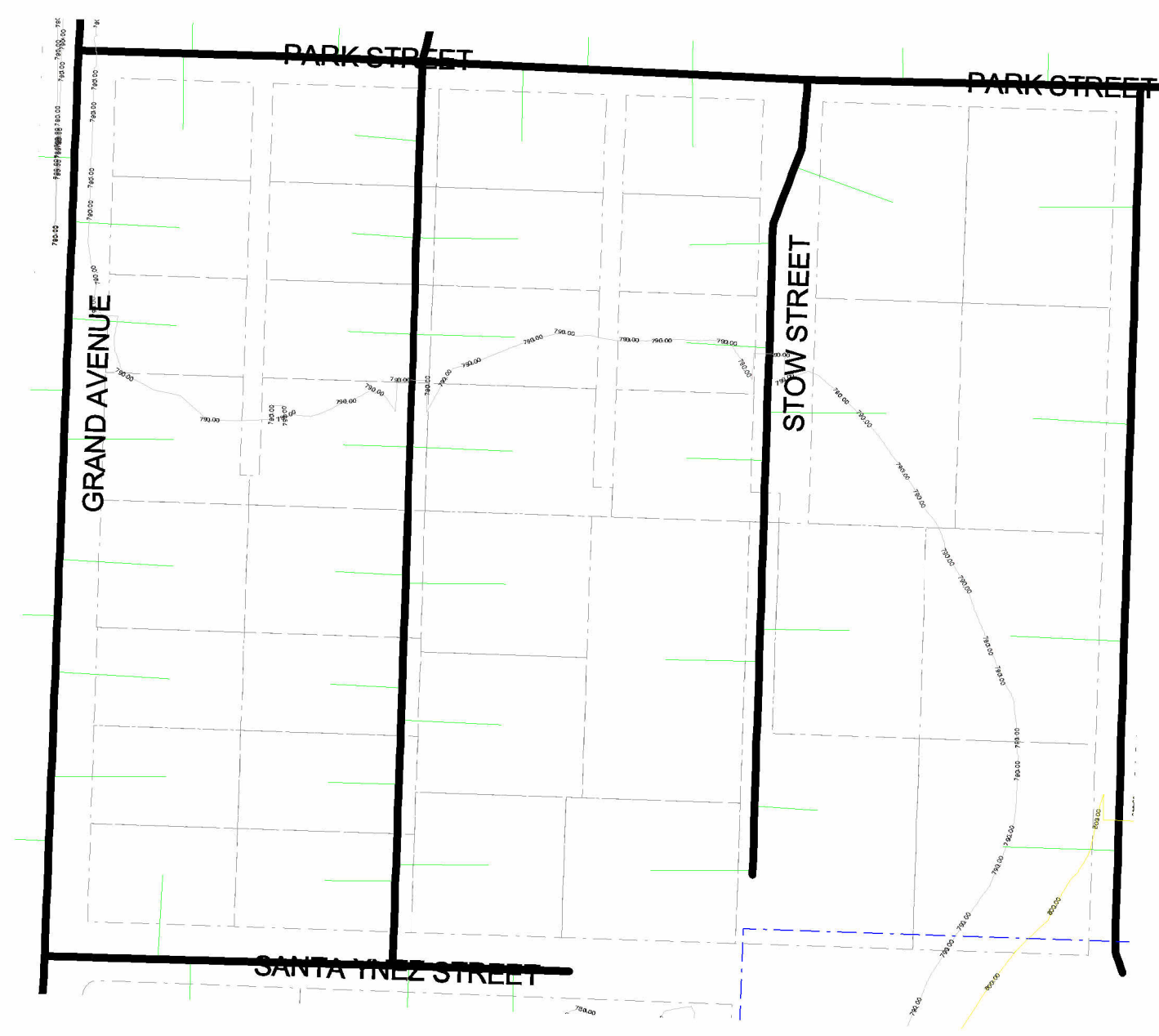
Project number 22031  
Date 5.824  
Drawn by JS  
Checked by NTB

PRELIMINARY DESIGN

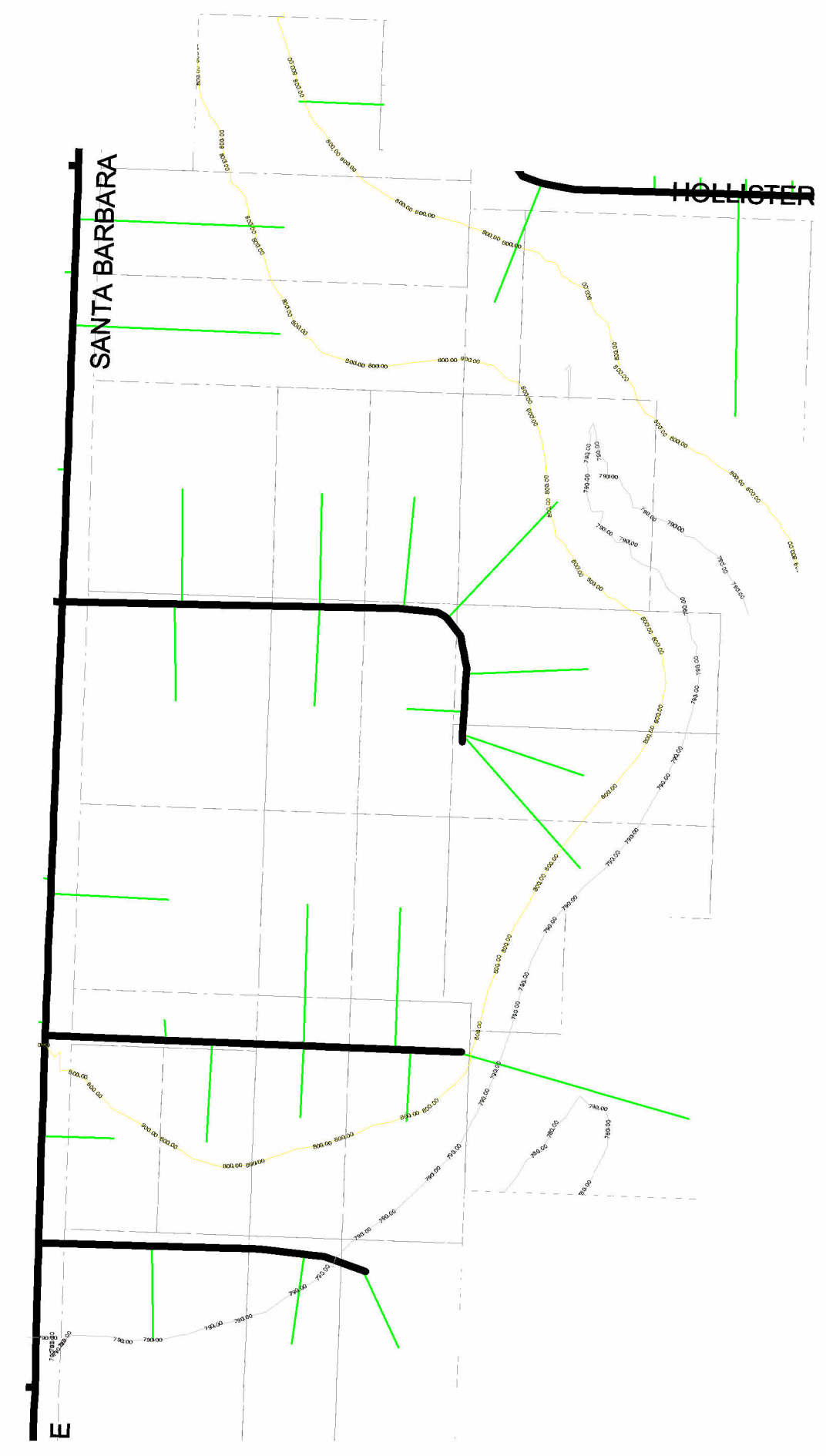
ZONES 1-3

**C103**



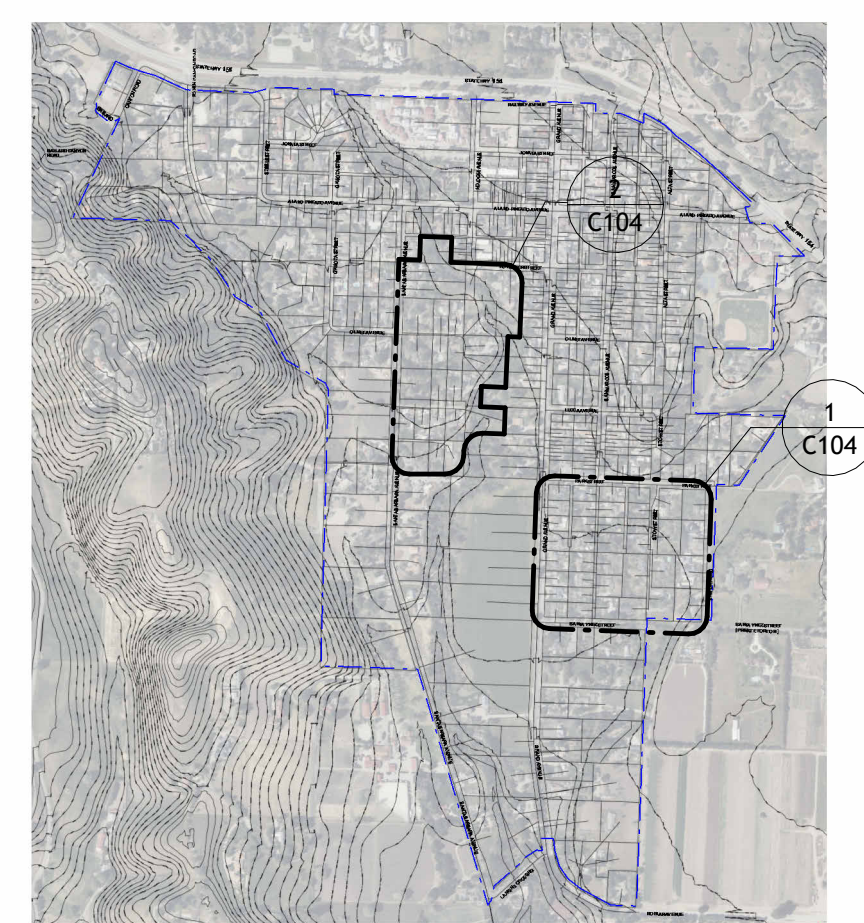


1 **ZONE 4**  
1" = 160'-0"



2 **ZONE 5**  
1" = 160'-0"

**KEY PLAN**



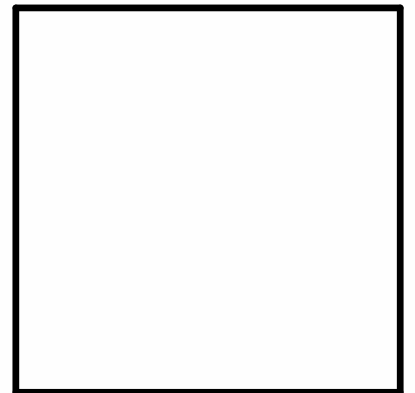
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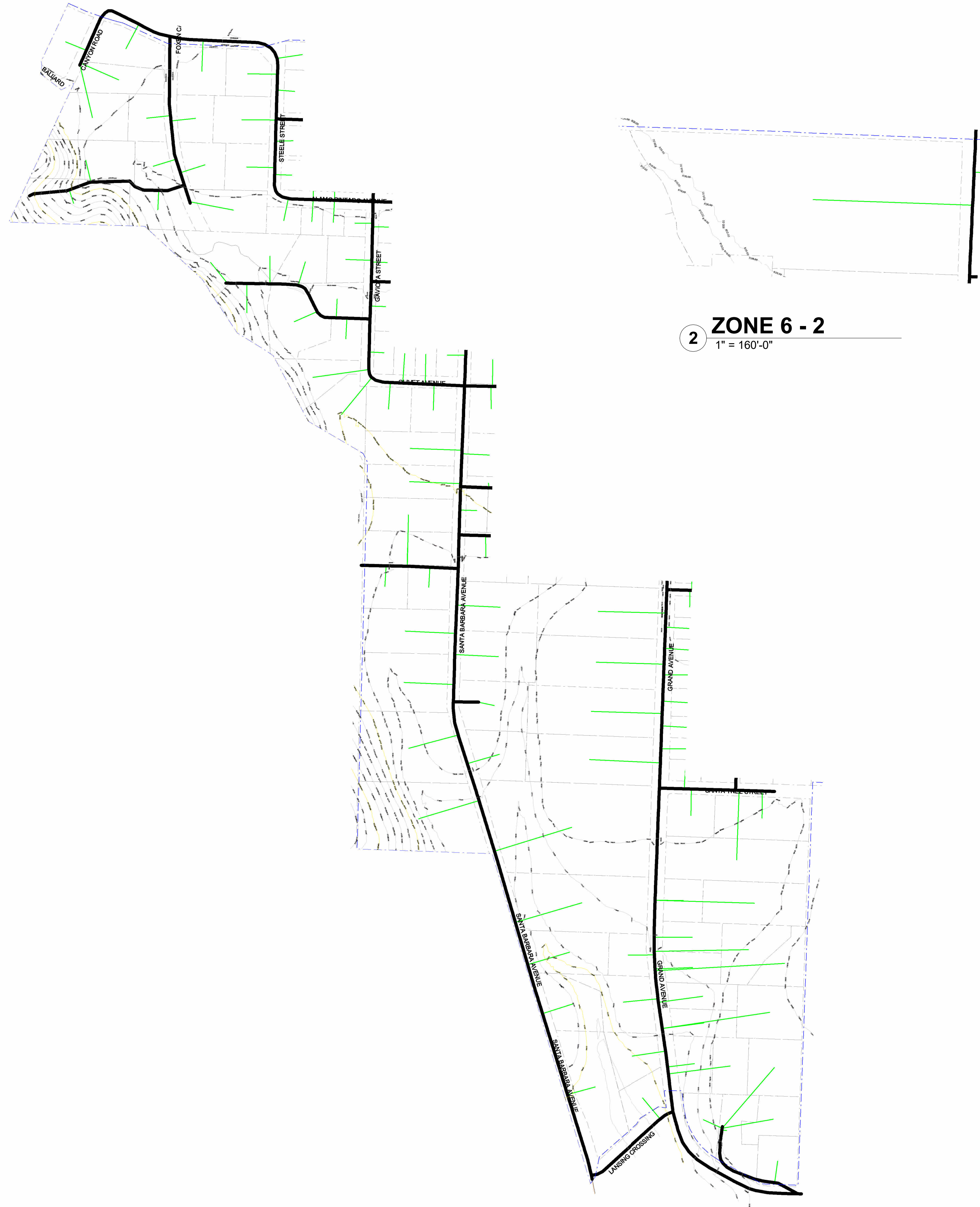
PRELIMINARY DESIGN

**ZONES 4-5**  
**C104**



**LOS OLIVOS**  
30% DESIGN PLANS  
LOS OLIVOS, CA



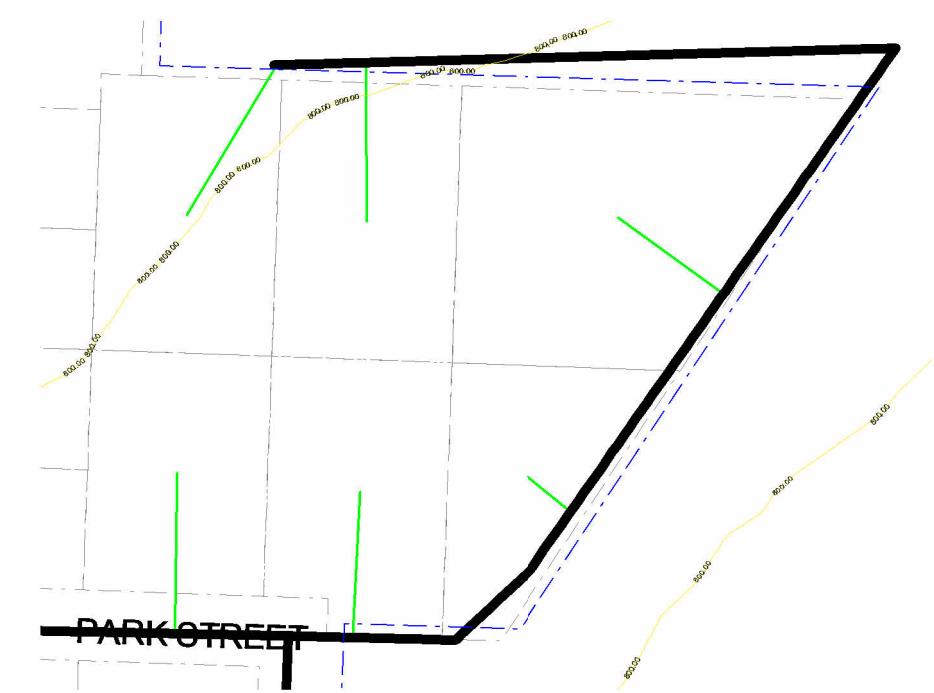


1 ZONE 6 - 1  
1" = 300'-0"

2 ZONE 6 - 2  
1" = 160'-0"

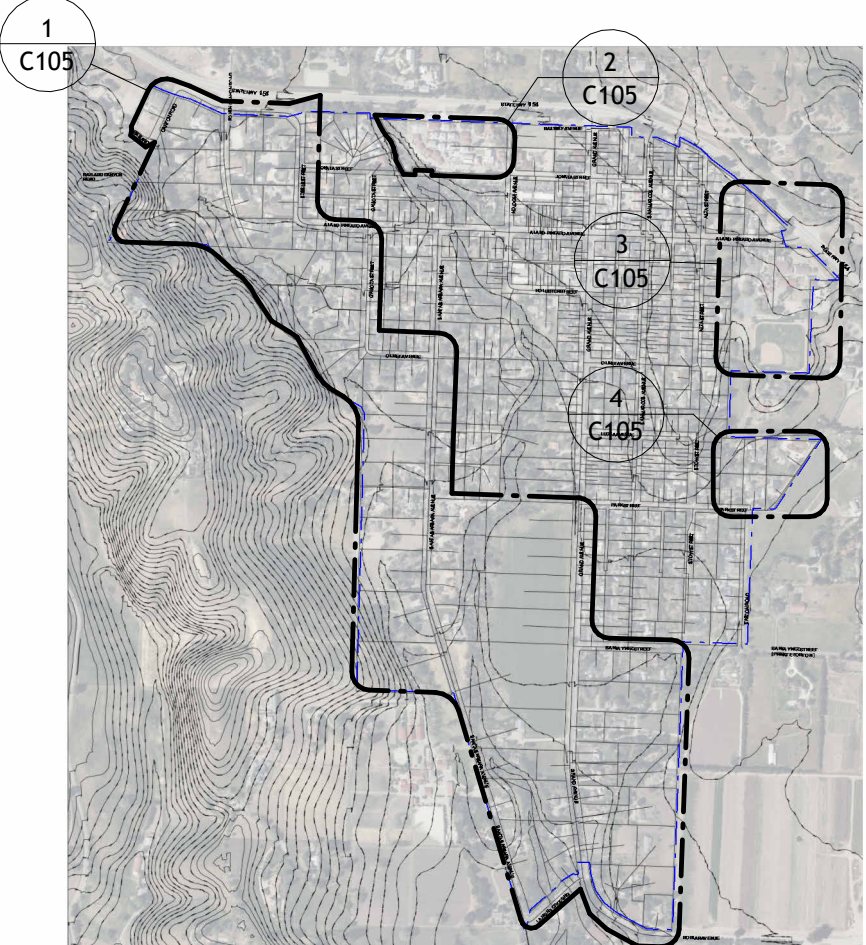


3 ZONE 6 - 3  
1" = 160'-0"



4 ZONE 6 - 4  
1" = 160'-0"

KEY PLAN



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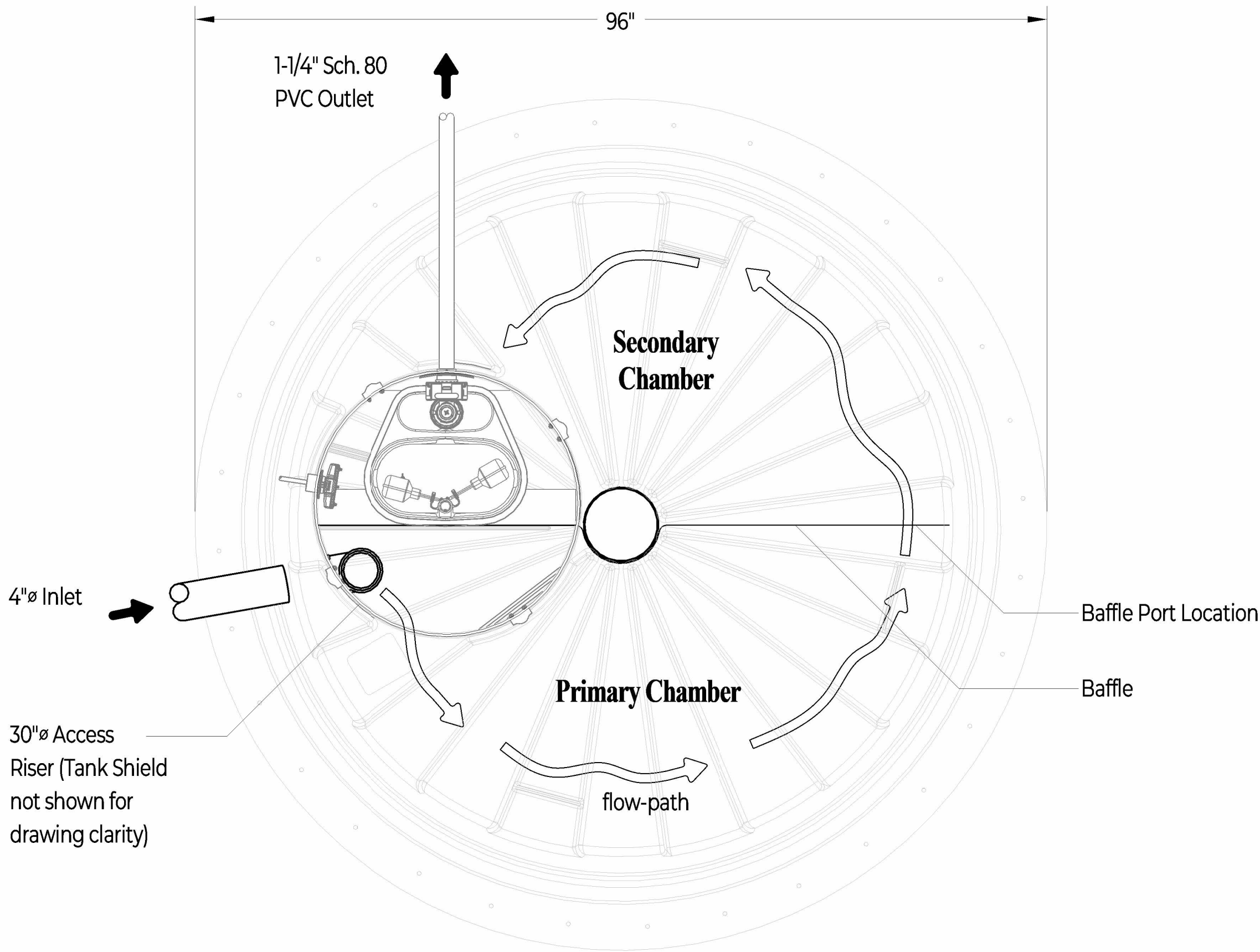
PRELIMINARY DESIGN

ZONE 6  
**C105**



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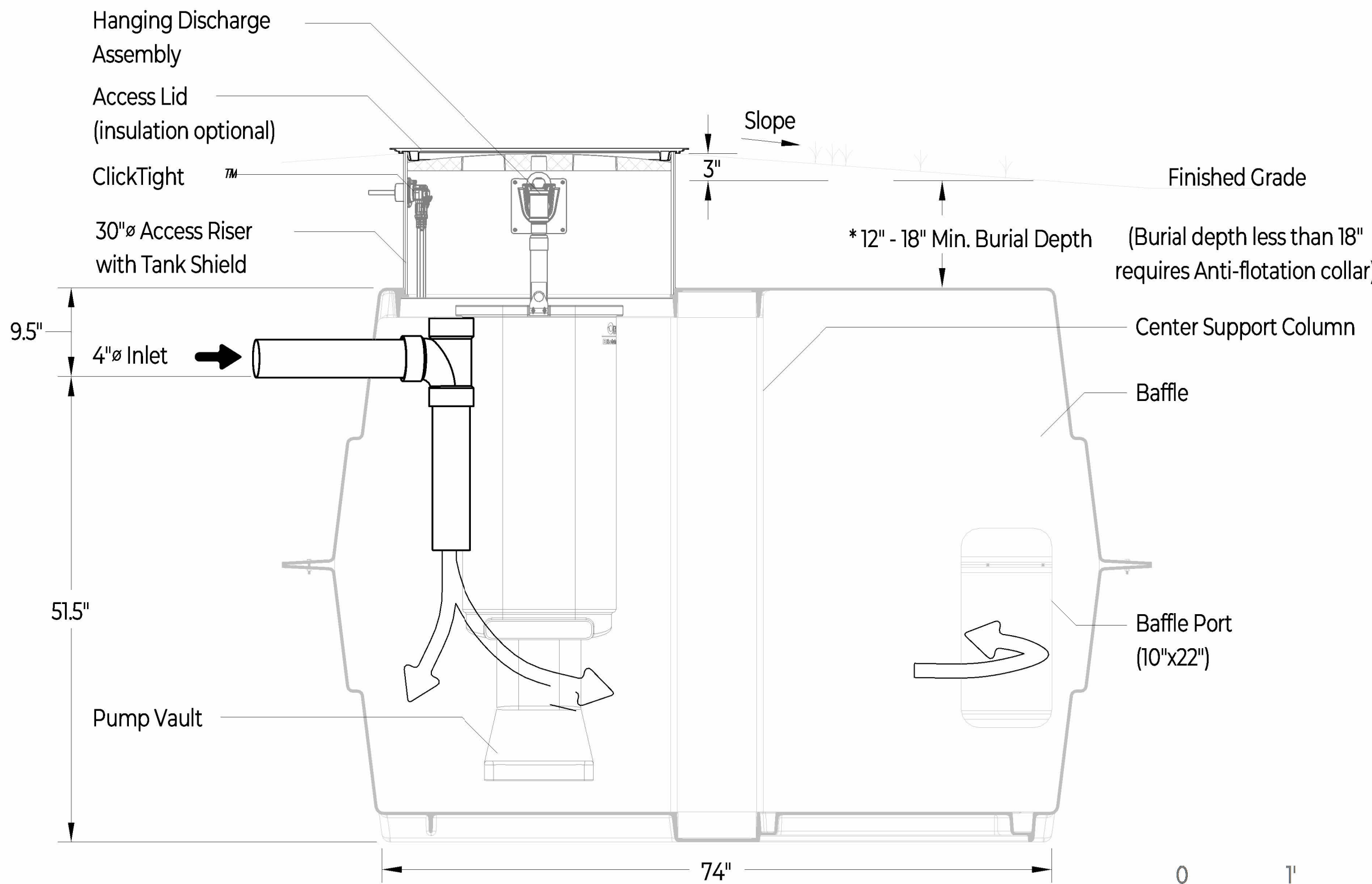




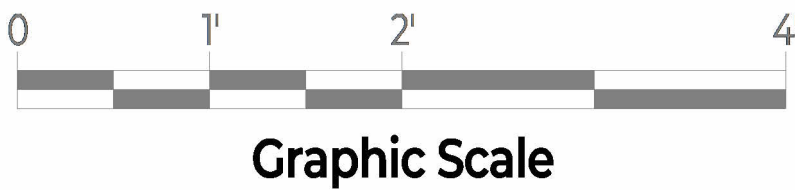
M1000 Tank Top Detail

TANK NOTES:

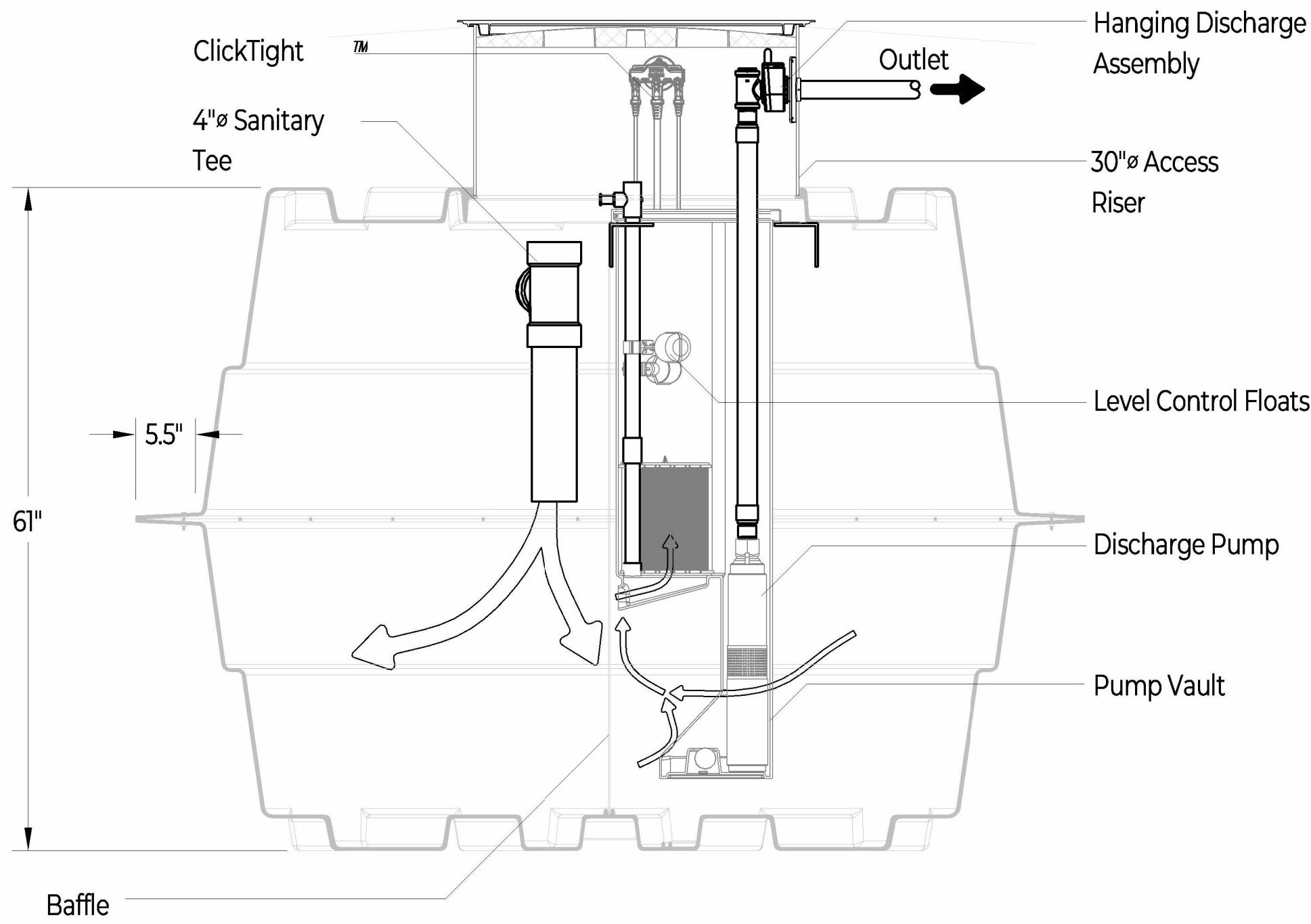
- TANK VOLUMES:** Total Volume: 1220 gal+  
Nominal Volume: 1000 gal+ @ 48"  
Unit volume at typical Operating Depth : 20 gal/in.+
- LOADS:** Top = 500 psf minimum  
Lateral Load = 62.4 pcf, EFP  
Concentrated Wheel Load = 2500 lb.  
The septic tank shall be capable of withstanding long-term hydrostatic loading, in addition to the soil loading, due to a water table maintained at ground surface.  
Soil Bearing = 1000 psf (re-evaluate support base if soil bearing is less or unequal)
- INSTALLATION:** Installation, bedding, compaction, etc., shall be in "strict" compliance with the manufacturers standards and state or local rules and or guidelines. All tanks shall be set level on a minimum 4 inch thick compacted sand or approved granular bedding overlying a firm uniform base. The base shall be stable and uniform in order to ensure equal bearing across the tank bottom. Installations with 18 inches or less of ground cover may require additional buoyancy considerations as described in the manufacturers instructions. A minimum cover of 12 inches is required over the tank in areas subject to occasional light wheel loads. Refer to installation instructions Document NIM-LOS-1.



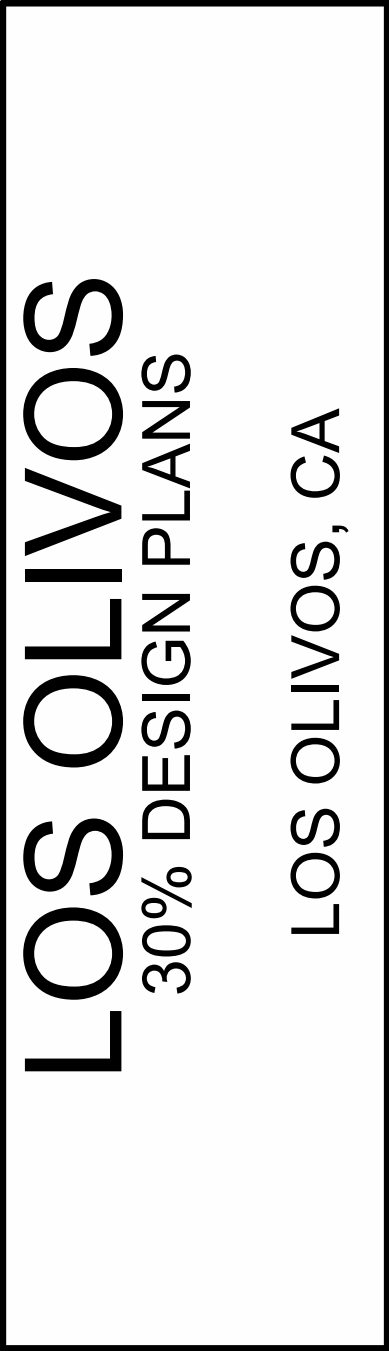
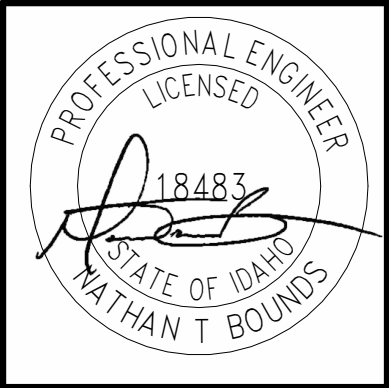
M1000 Tank Side Detail



Inside Height Inches	Total Gallons
60	1217
54	1124
48	1006
42	881
36	744
30	601
24	460
18	324
12	200
6	83
0	0



M1000 Tank End Detail



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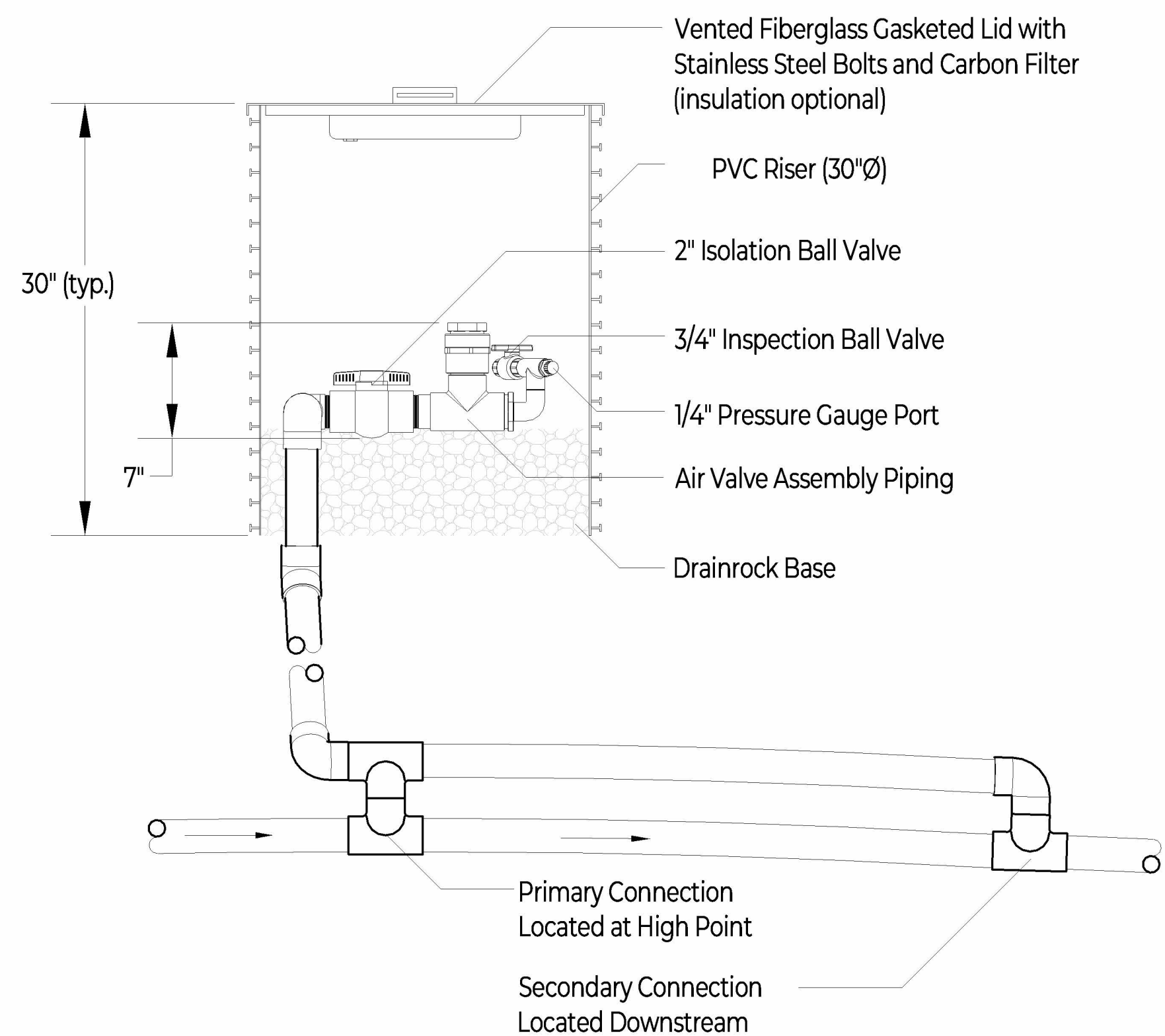
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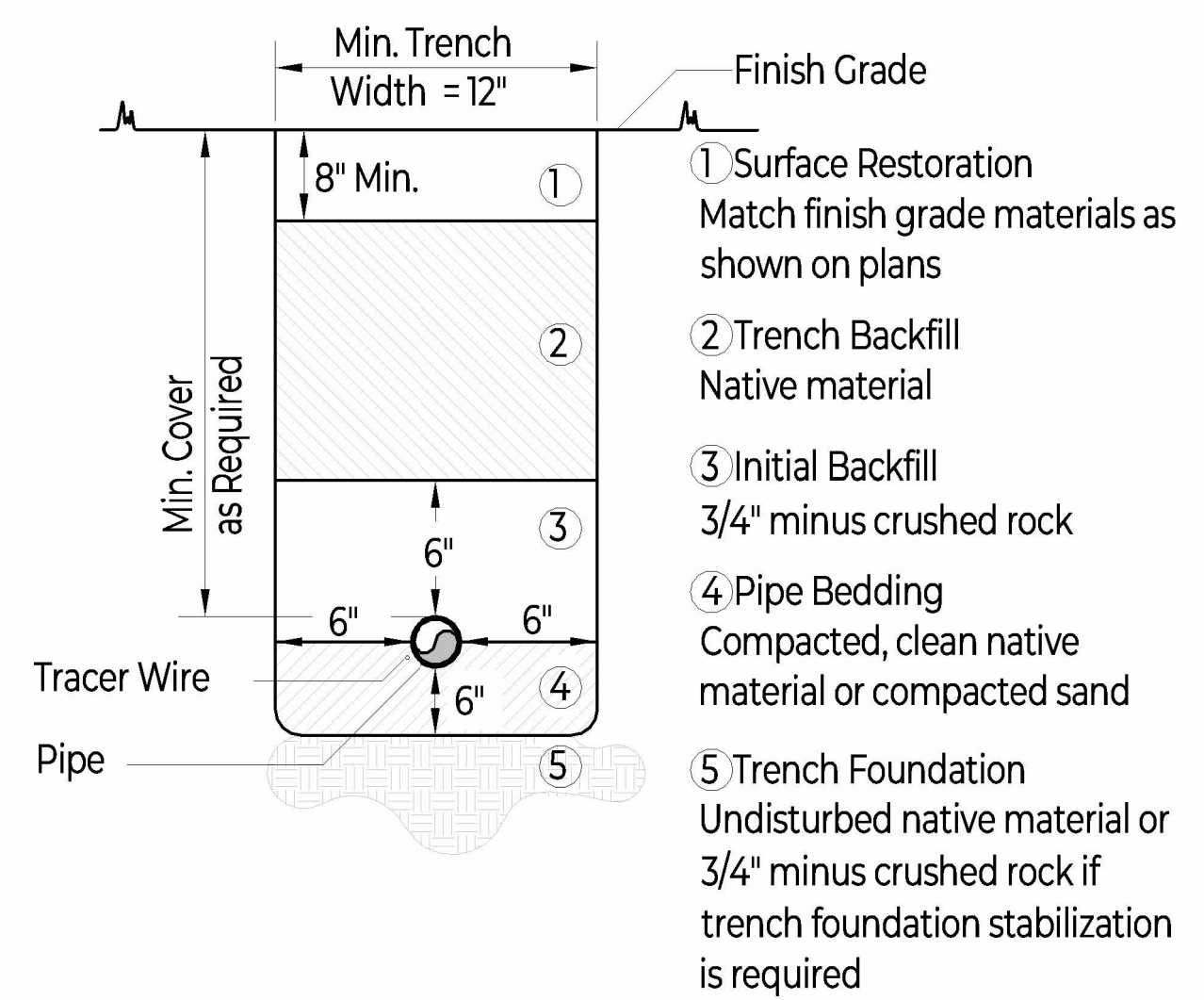
EXAMPLE OM LOT TANK DETAILS

C106





Air Valve Assembly - Manual Configuration

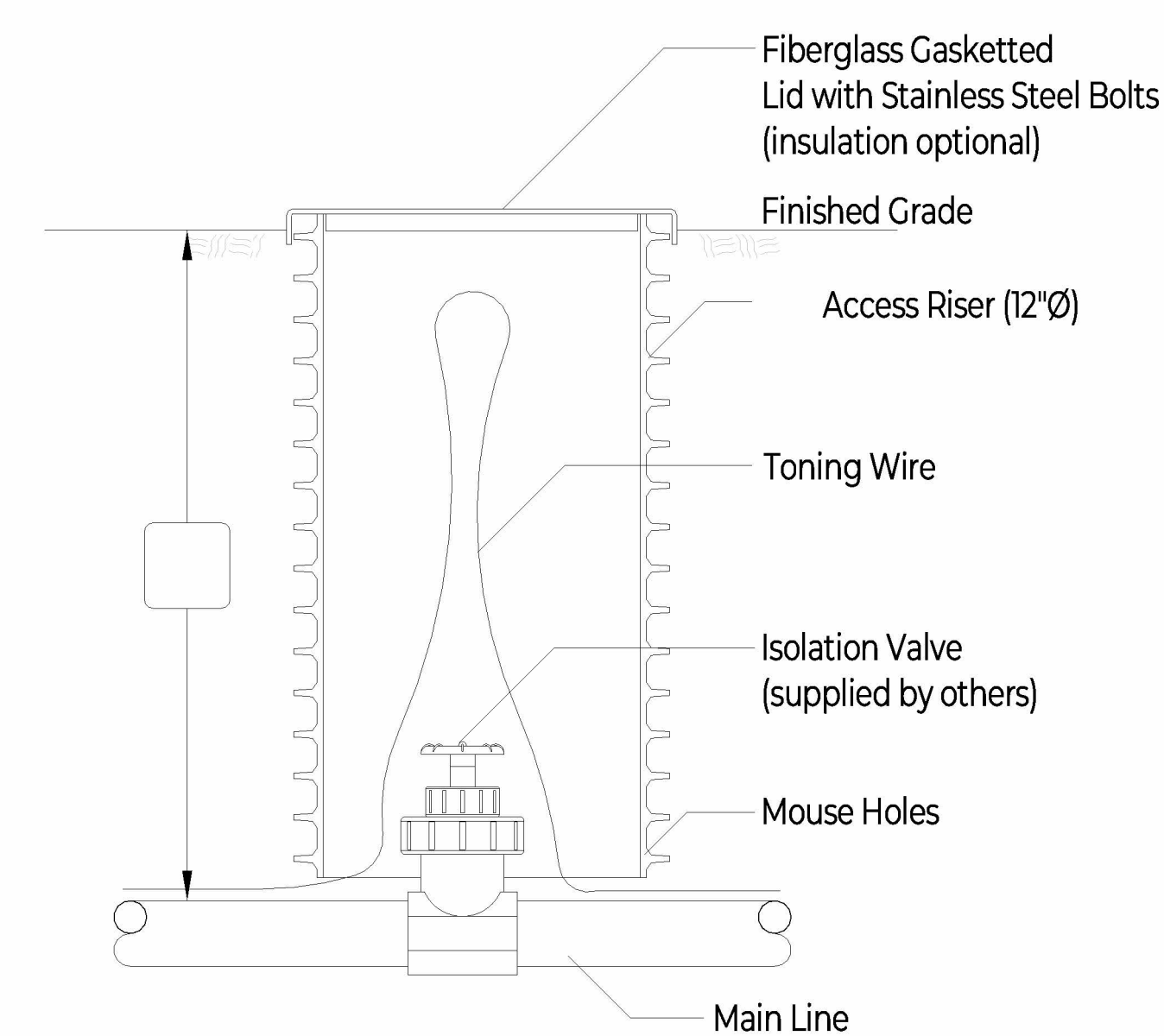


Typical Sewer Trench Details

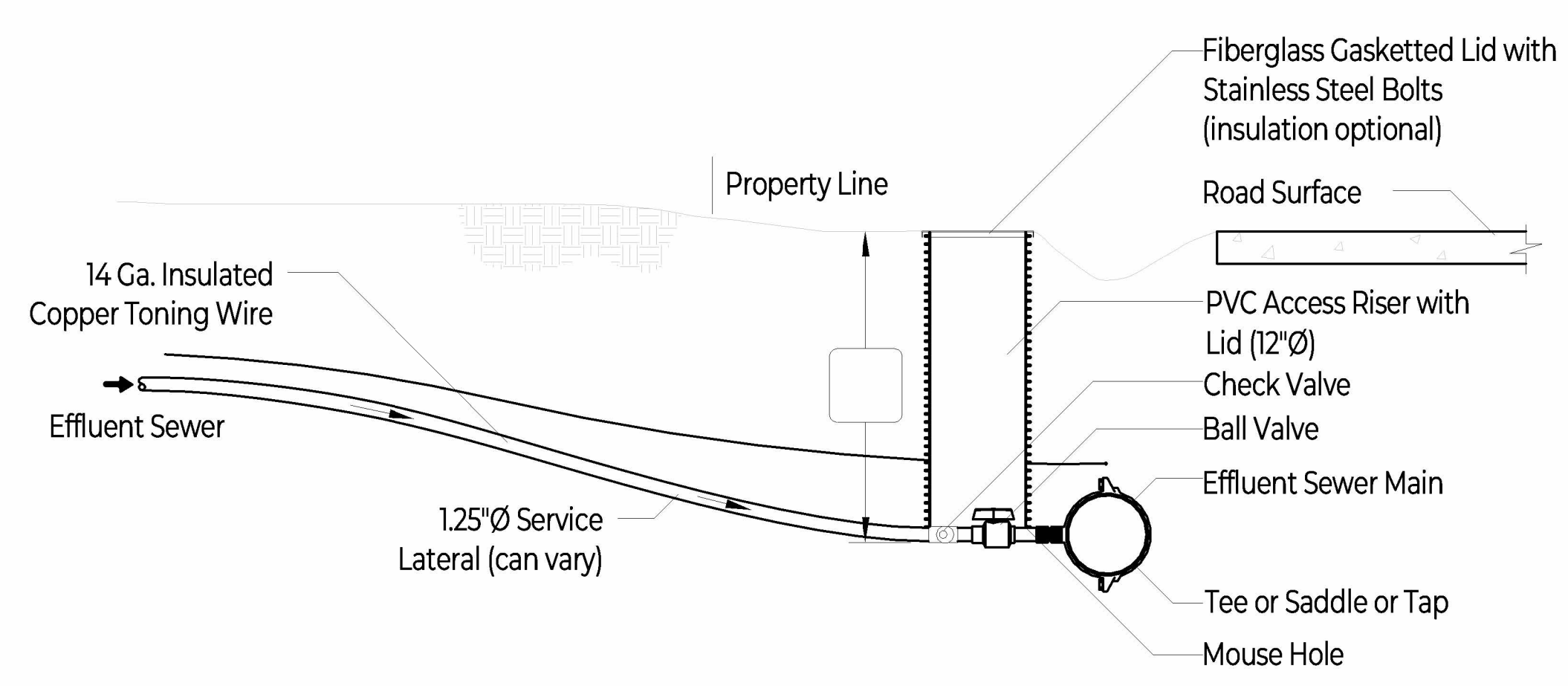
**Note:**  
All dimensions shown are minimum and relative to outside of pipe bell.

**Mainline Testing:**  
Allowable Loss Gal/hr/1000ft

Test Pressure	3 in	4 in	6 in
150 psi	0.23	0.37	0.55
125 psi	0.25	0.34	0.50
100 psi	0.23	0.30	0.45



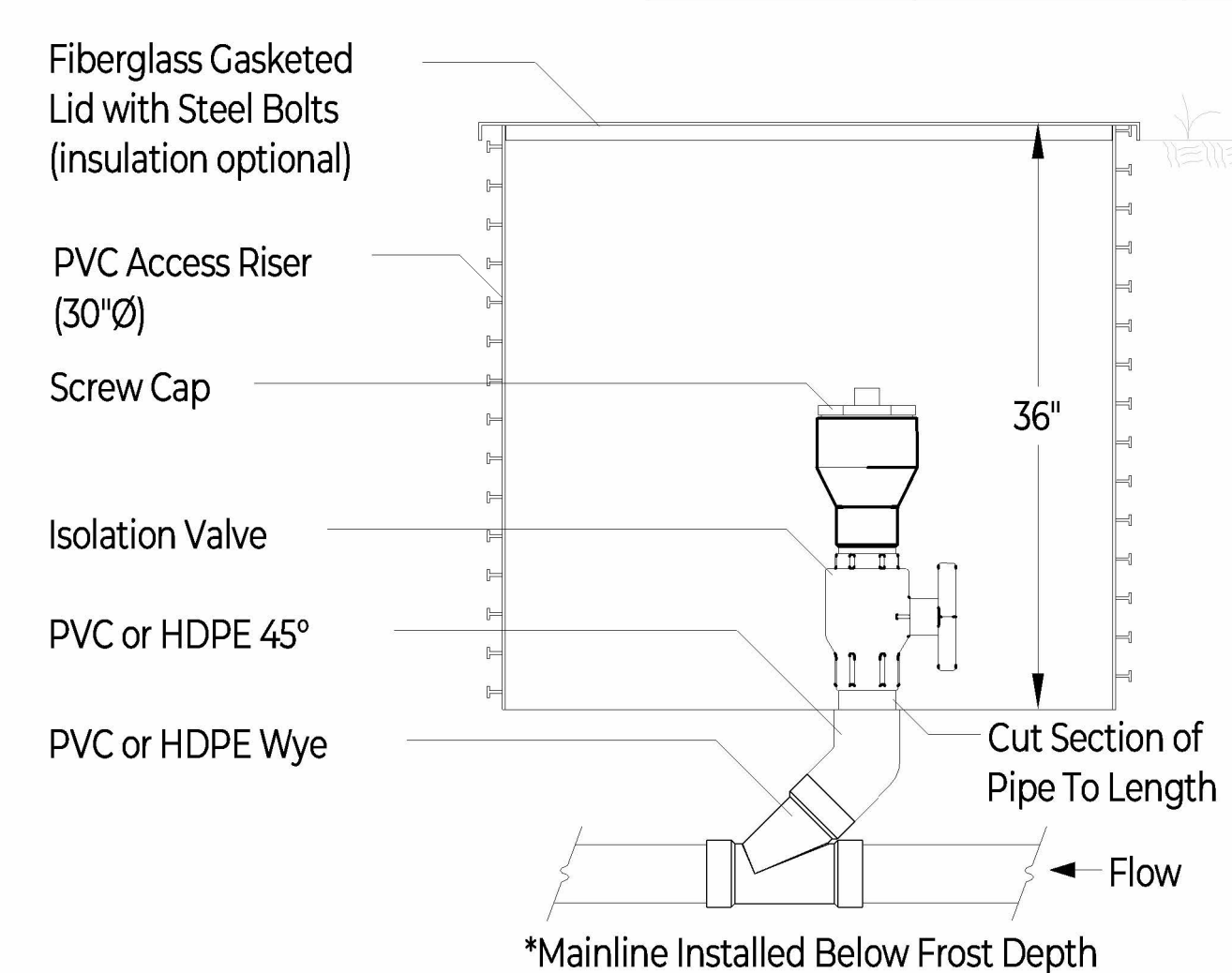
Isolation Valve Detail



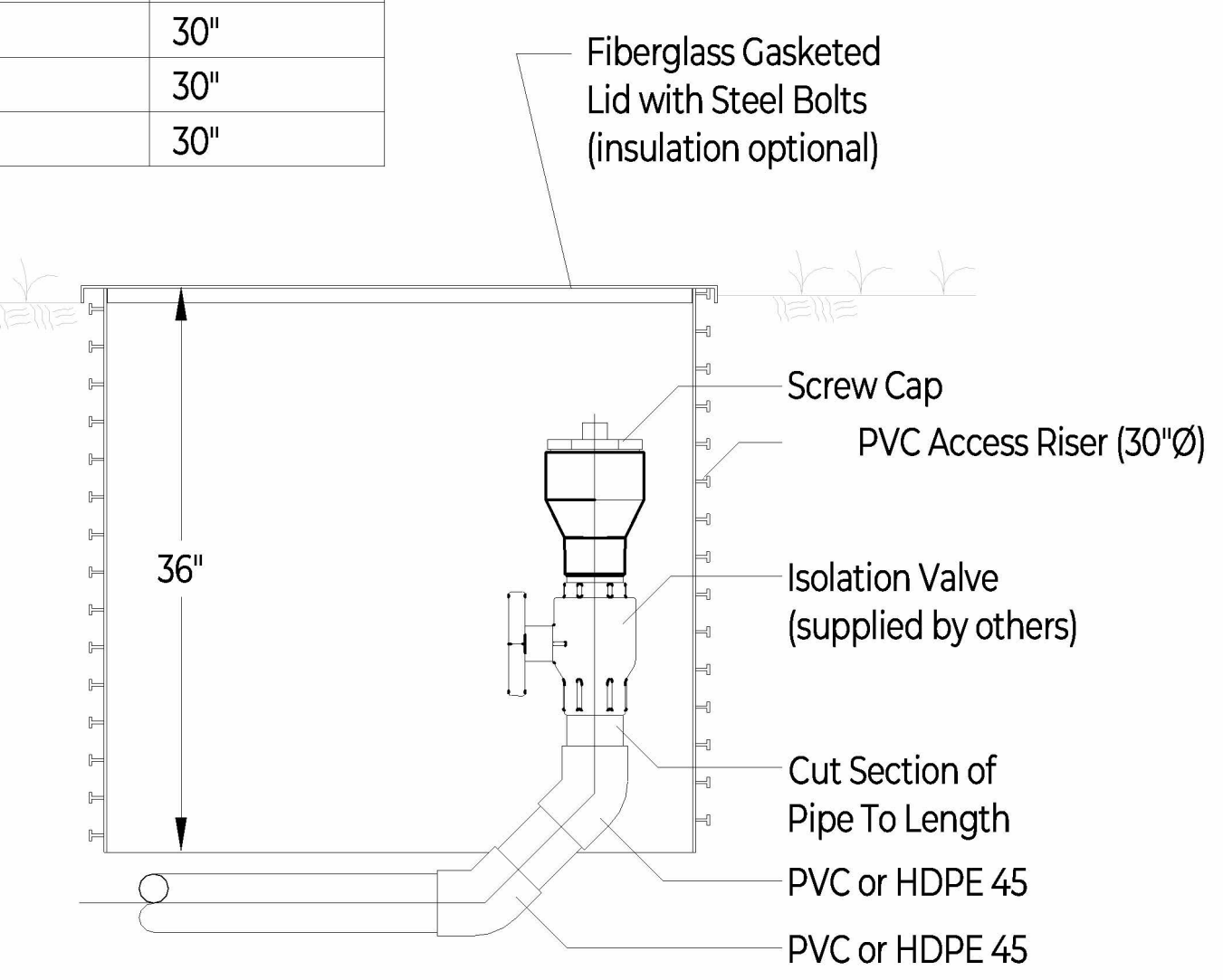
Note: All service laterals from the effluent sewer main to the property line shall be pressure tested prior to any backfilling. Typically tested with air compressor with ≈ zero loss at 60 seconds. Typically installed below frost depth. Access risers shall not be located in vehicular traffic areas. Alternative HDPE valve box as an option for warmer climates.

Effluent Sewer Service Connection

In-Line Pig Port + Clean-Out Component Sizing			
Force Main Dia.	Screw Cap Dia.	Valve & Fittings Dia.	Access Riser & Lid Dia.
2"	3"	2"	30"
3"	4"	3"	30"
4"	6"	4"	30"
6"	8"	6"	30"



In-Line Pig Port



Clean-Out Detail

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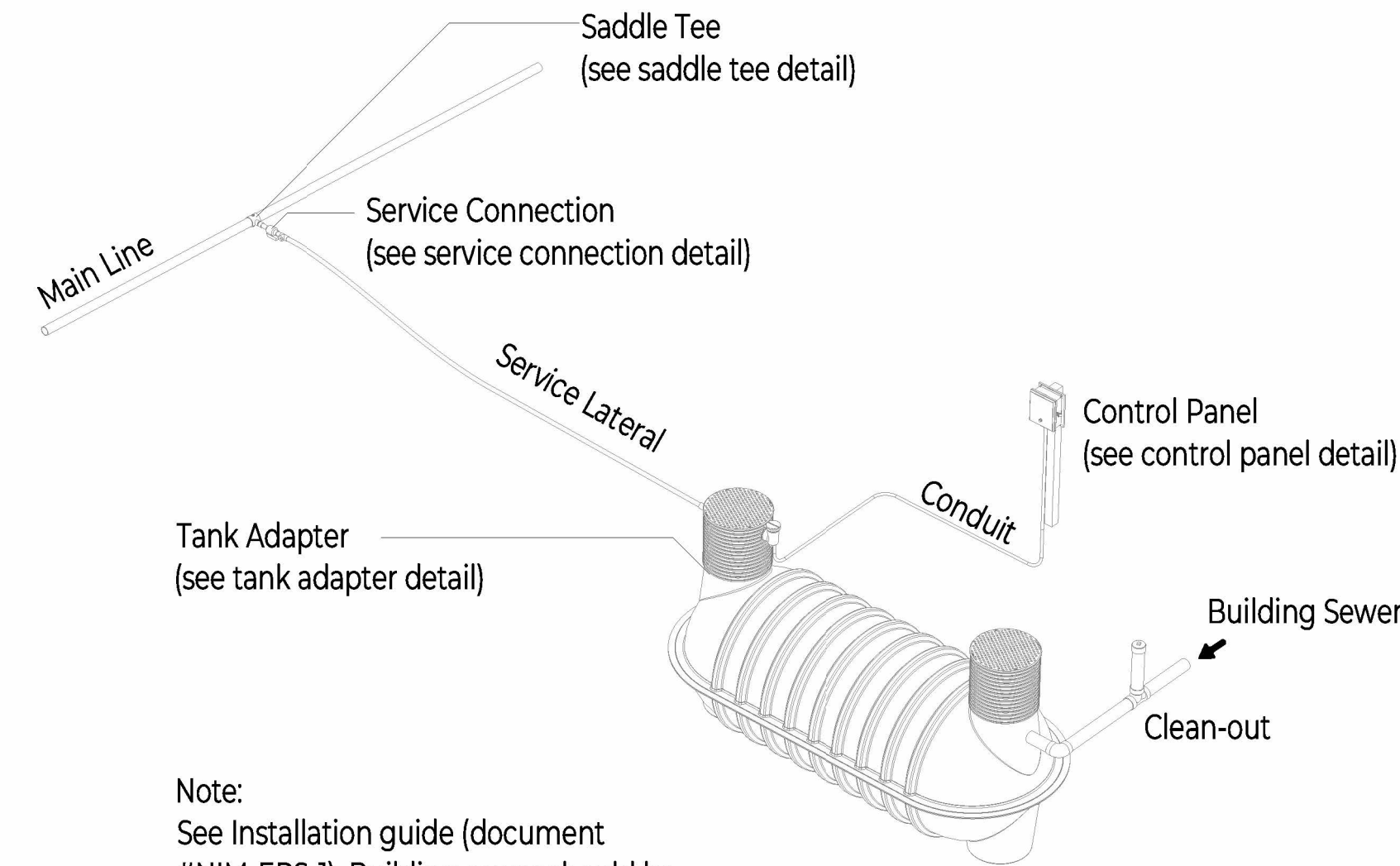
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PRELIMINARY DESIGN

**EFFLUENT  
SEWER  
DETAILS**

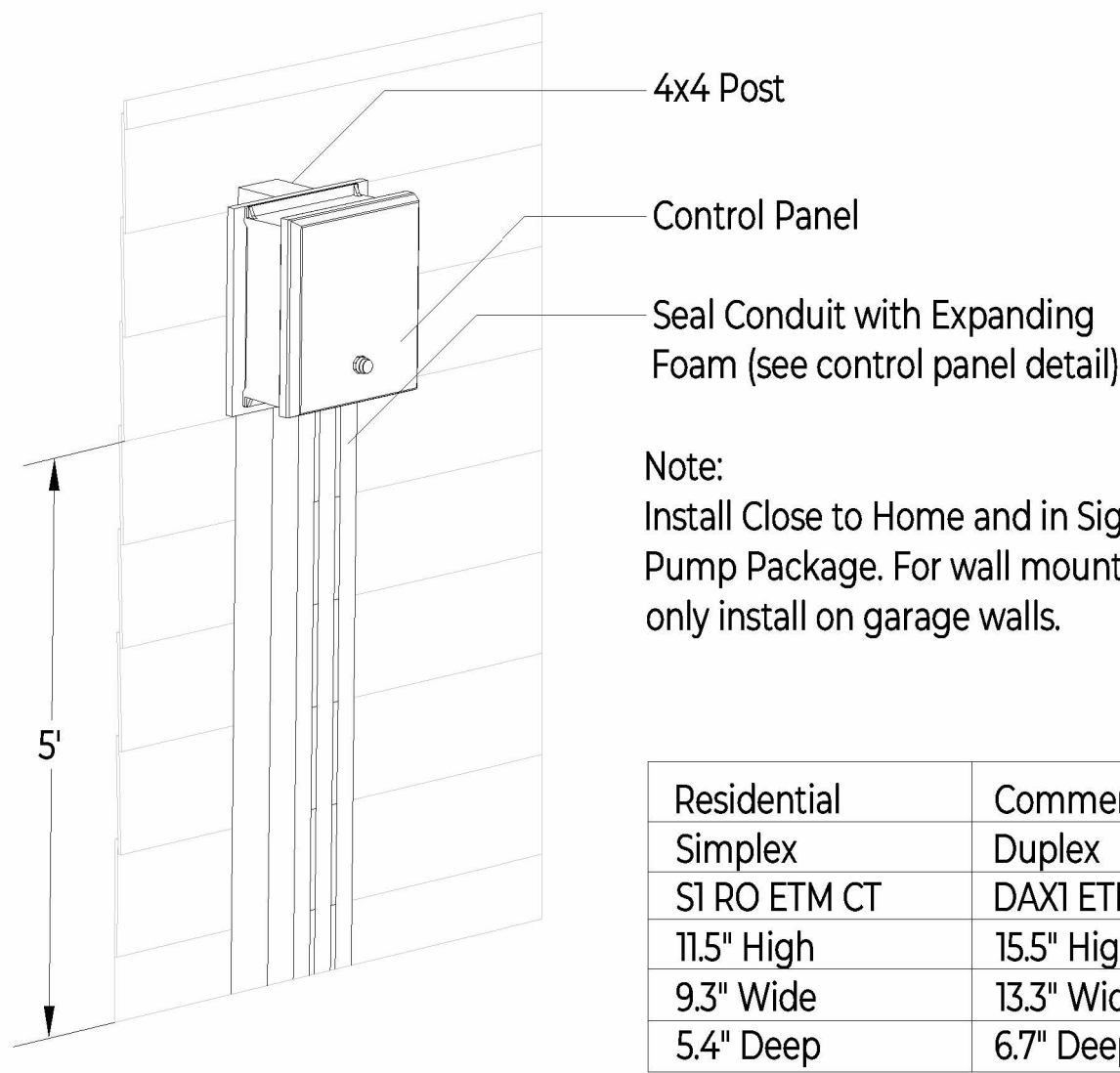
**C107**





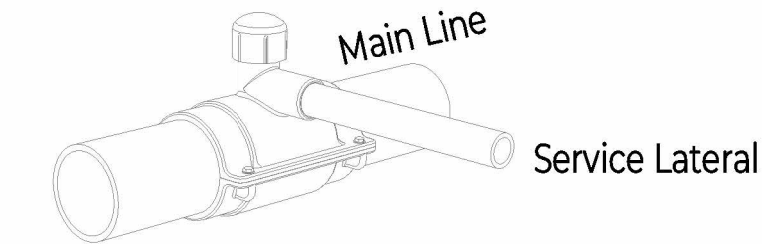
Note:  
See Installation guide (document #NIM-EPS-1). Building sewer should be inspected to eliminate illegal connections & confirm pipe & fitting integrity. No storm sewer connections allowed.

Typical Effluent Sewer Detail

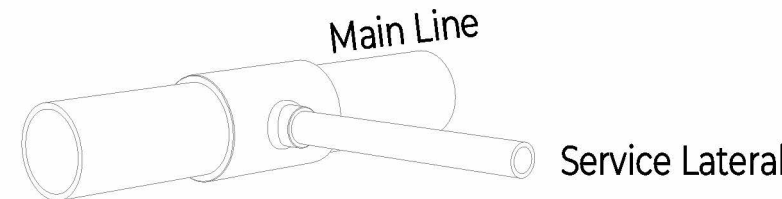


Residential	Commercial
Simplex	Duplex
S1 RO ETM CT	DAX1 ETM CT
11.5" High	15.5" High
9.3" Wide	13.3" Wide
5.4" Deep	6.7" Deep

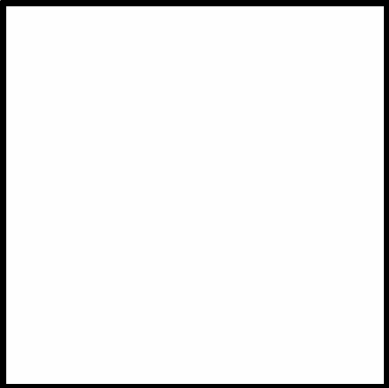
Control Panel Detail  
(Wall or 4x4 Post Mount)



Hot Tap Saddle Detail



Tee Saddle Detail



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30% DESIGN PLANS  
LOS OLIVOS, CA

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EFFLUENT  
SEWER  
DETAILS  
  
**C108**