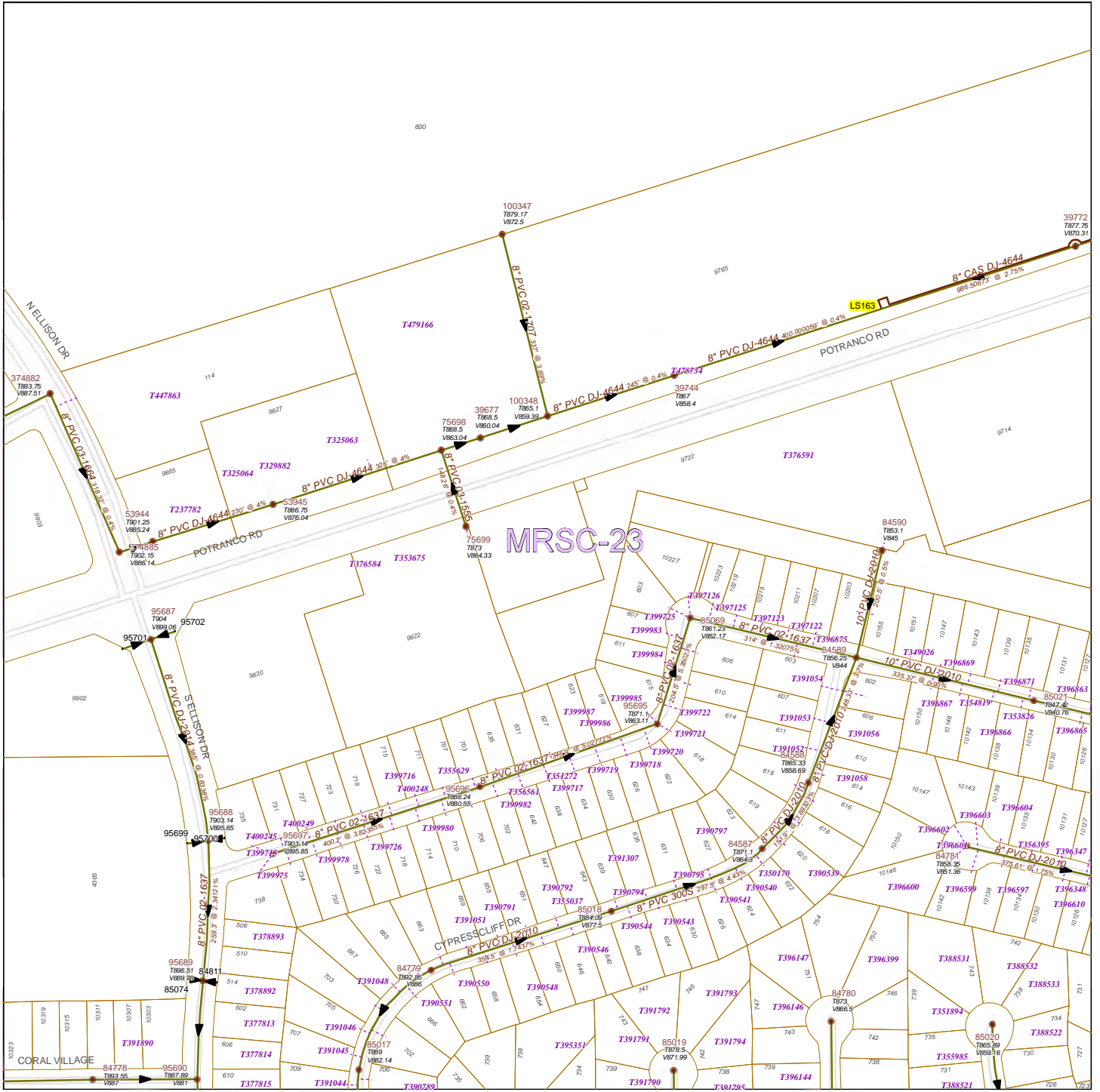


LIFT STATIONS REHABILITATION DESIGN - PHASE 3 PROJECT

Lift Station Number / Name	Lift Station Address	Block Map No.	Council District
163 Potranco #2	9765 Potranco Road	100-582	6
176 Southwest Middle School	9620 SW Loop 410	120-542	4
188 Valley Hi	874 New Valley Hi Dr	112-560	4
189 Threadneedle	9603 Ray Ellison Road	110-564	4
190 Alamo Dome	127 Hoefgen Ave	164-576	2
205 Carowinds	9803 Carowinds	100-596	6
207 Wood Glen	2401 Village Parkway	106-596	6
210 Horseshoe Bend	5622 S. Horseshoe Bend	128-594	7
211 Villa Espranza	2114 Calle Estrella	146-566	5
228 Southwest High School	11914 Dragon Lane	106-536	O.C.L.
237 Shaenfield	9011 Shaenwest	094-614	O.C.L.
239 Southside High School	1680 Martinez Losoya Road	168-510	O.C.L.
245 Harris Middle School	300 Cass Avenue	156-570	5
252 Heights of Stone Oak	25103 Estancia Circle	160-670	9
253 Palo Alto	3708 Twining	136-542	4
257 Ranch at Iron Horse	12903 Walking Horse	092-628	O.C.L.
258 Alamo Ranch	11860 Thoroughbred Trail	086-594	O.C.L.
263 Indian Springs	25658 Rabbit Brush	184-672	O.C.L.
264 Westwinds	12402 Alstroemeria	082-600	O.C.L.
265 The Villages of Bulverde	24514 Invitation Oak	184-666	O.C.L.
270 Champion Ridge	127 Champion View	164-664	9

O.C.L. = Outside City Limits

WASTEWATER BLOCK MAP

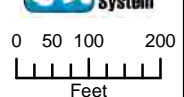


MAN HOLES	OTHER	MAINS
○ AIR RELEASE	▽ SIPHON INLET	● FORCE MAIN
⊞ BLOW OFF	▣ SIPHON OUTLET	● GRAVITY MAIN
○ BREAK NODE	● STANDARD	● OFFFALL MAIN
○ CLEAN OUT	● DROP MANHOLE	● SIPHON MAIN
○ JUNCTION BOX	○ STUB OUT	--- SEWER LATERALS
⊞ LIFT STATION	▲ SEWER ARV	○ SERVICE CENTER
○ MONOLITHIC		● PROP. SEWER MAIN

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120544

WASTEWATER BLOCK MAP

120542

118544

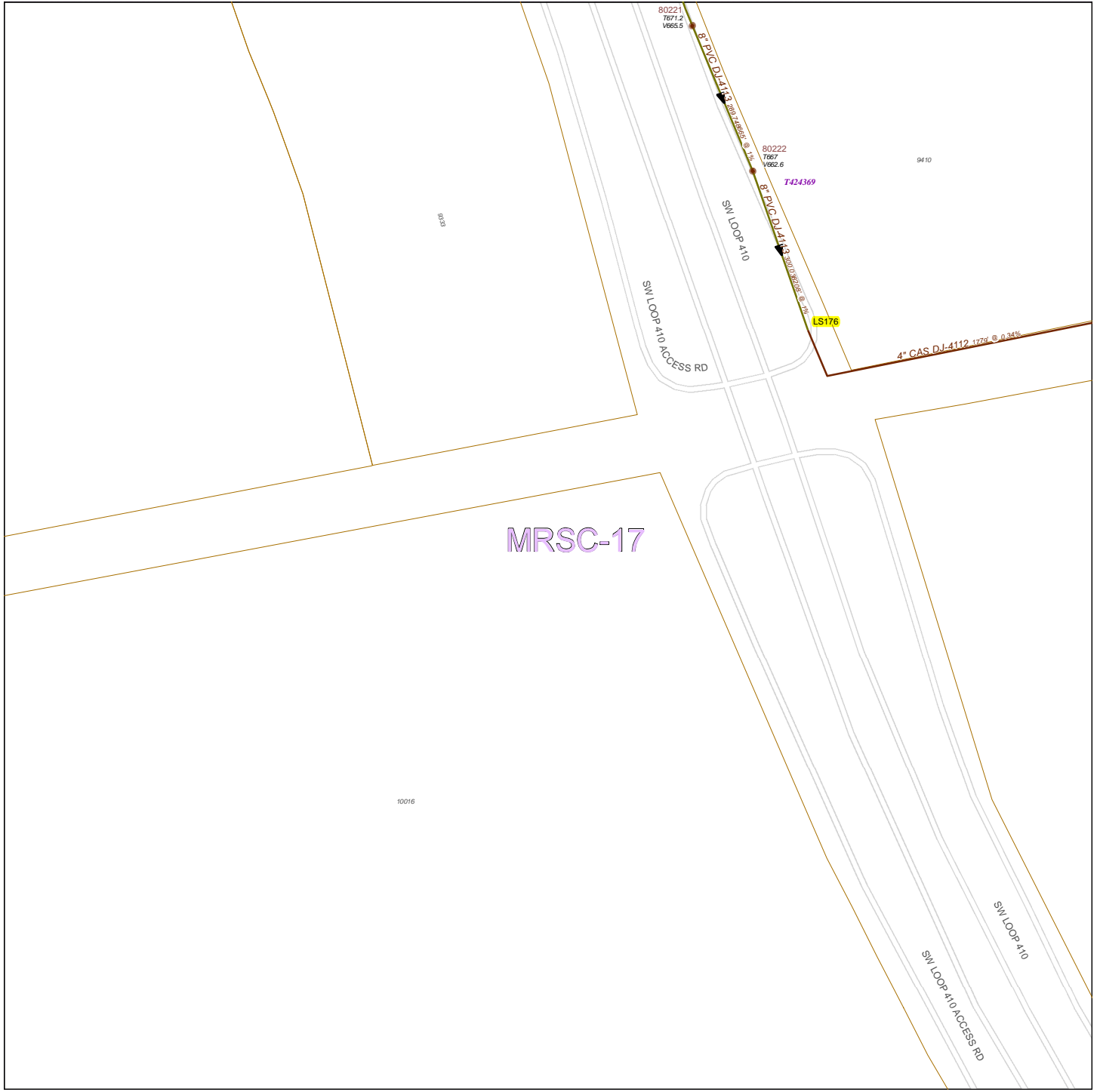
122544

118542

122542

118540

122540



120540

MAN HOLES

- ◻ AIR RELEASE
- ⊠ BLOW OFF
- BREAK NODE
- CLEAN OUT
- JUNCTION BOX
- ◻ LIFT STATION
- MONOLITHIC
- OTHER
- ▼ SIPHON INLET
- ▣ SIPHON OUTLET
- STANDARD
- ⊕ DROP MANHOLE
- STUB OUT
- ▲ SEWER ARV

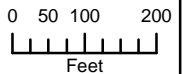
MAINS

- ▶ FORCE MAIN
- ▶ GRAVITY MAIN
- ▶ OUTFALL MAIN
- ▶ SIPHON MAIN
- SEWER LATERALS
- ◻ SERVICE CENTER
- ▶ PROP. SEWER MAIN

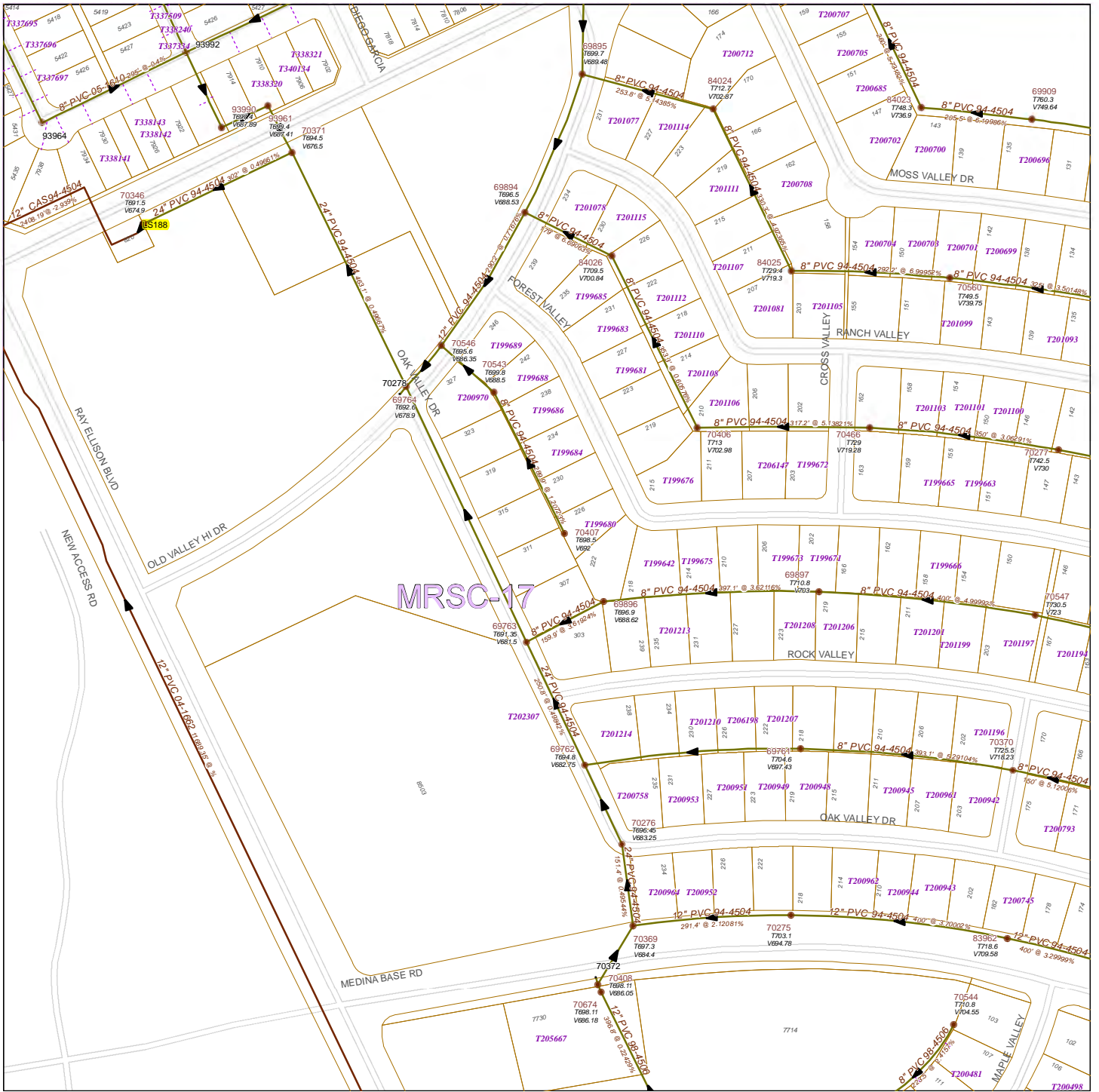
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WASTEWATER BLOCK MAP

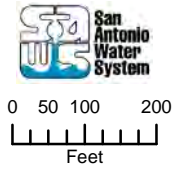


MAN HOLES	OTHER	MAINS
• AIR RELEASE	• SIPHON INLET	• FORCE MAIN
• BLOW OFF	• SIPHON OUTLET	• GRAVITY MAIN
• BREAK NODE	• STANDARD	• OUTFALL MAIN
• CLEAN OUT	• DROP MANHOLE	• SIPHON MAIN
• JUNCTION BOX	• STUB OUT	• SEWER LATERALS
• LIFT STATION	• SEWER ARV	• SERVICE CENTER
• MONOLITHIC		• PROP. SEWER MAIN

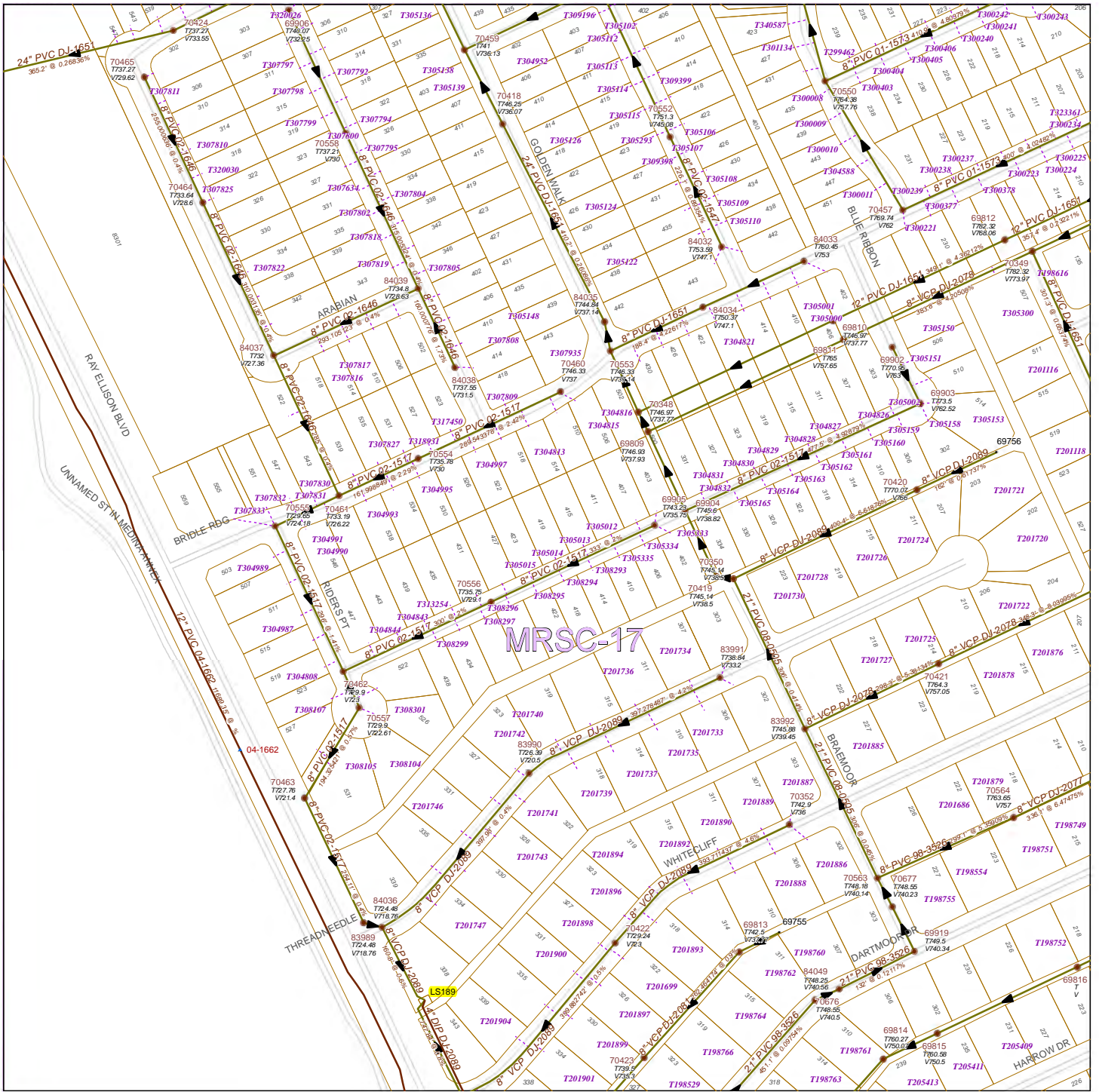
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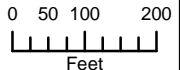


MRSC-17

LS169

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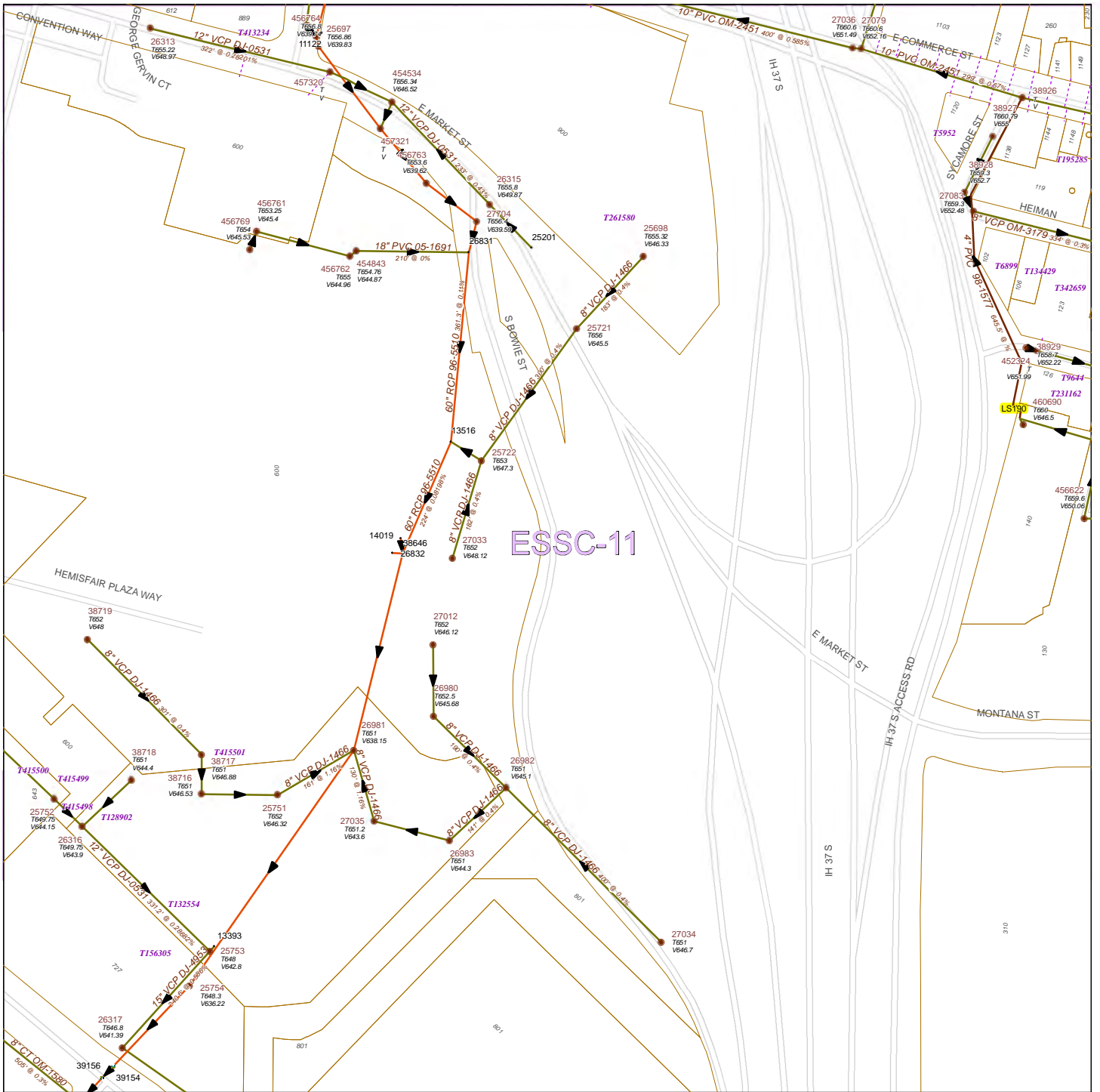
Mar 25, 2011



MAN HOLES	OTHER	MAINS
○ AIR RELEASE	▽ SIPHON INLET	▲ FORCE MAIN
⊠ BLOW OFF	▣ SIPHON OUTLET	▣ GRAVITY MAIN
● BREAK NODE	● STANDARD	▣ OUTFALL MAIN
○ CLEAN OUT	● DROP MANHOLE	▣ SIPHON MAIN
⊠ JUNCTION BOX	● STUB OUT	▣ SEWER LATERALS
⊠ LIFT STATION	▲ SEWER ARV	▣ SERVICE CENTER
● MONOLITHIC		▣ PROP. SEWER MAIN

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WASTEWATER BLOCK MAP

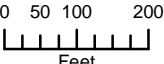


MAN HOLES	OTHER	MAINS
• AIR RELEASE	• SIPHON INLET	• FORCE MAIN
• BLOW OFF	• SIPHON OUTLET	• GRAVITY MAIN
• BREAK NODE	• STANDARD	• OUTFALL MAIN
• CLEAN OUT	• DROP MANHOLE	• SIPHON MAIN
• JUNCTION BOX	• STUB OUT	• SEWER LATERALS
• LIFT STATION	• SEWER ARV	• SERVICE CENTER
• MONOLITHIC		• PROP. SEWER MAIN

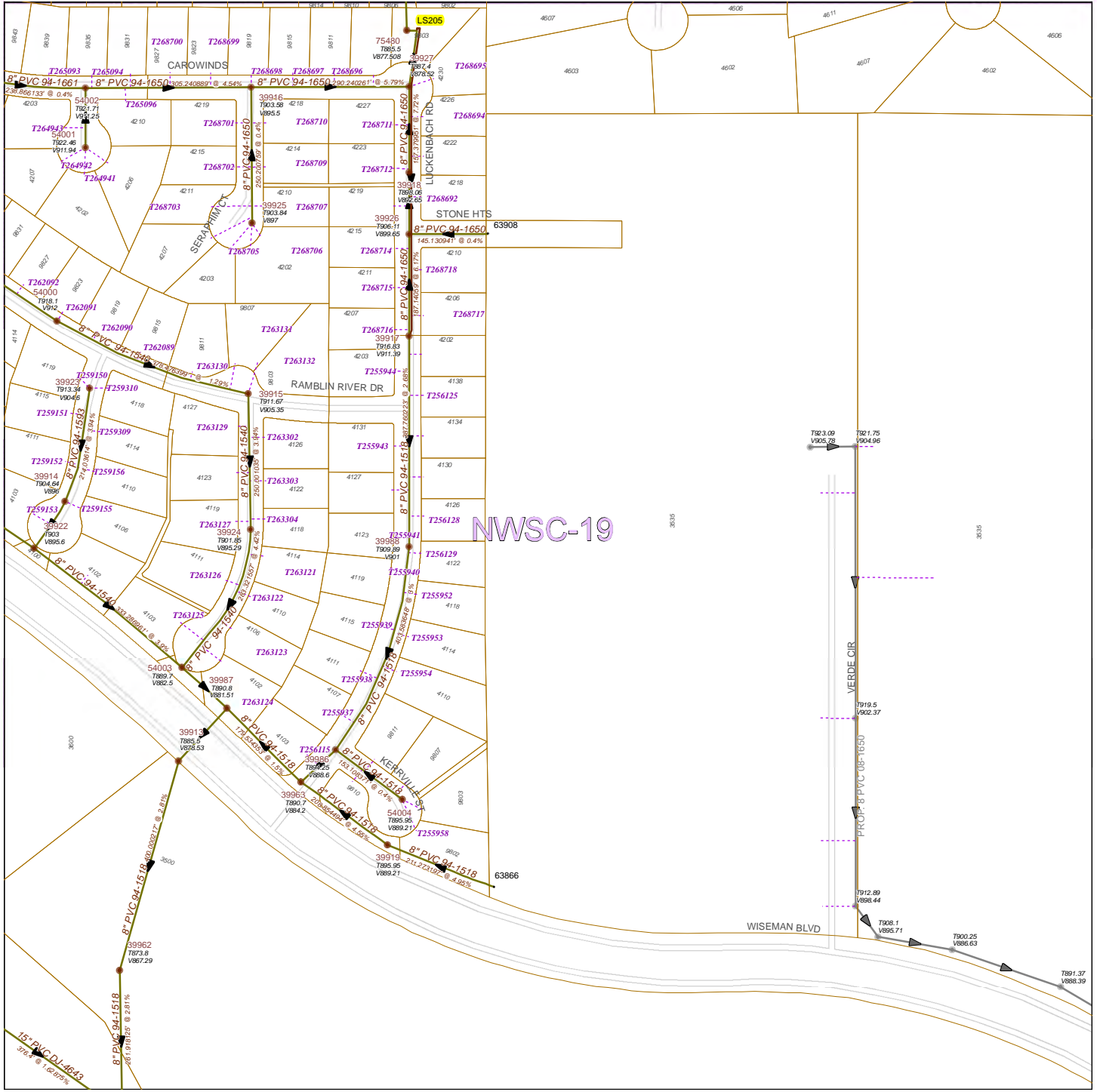
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WASTEWATER BLOCK MAP



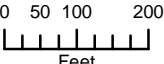
NWSC-19

- | | | |
|------------------|-----------------|--------------------|
| MAN HOLES | OTHER | MAINS |
| • AIR RELEASE | • SIPHON INLET | • FORCE MAIN |
| • BLOW OFF | • SIPHON OUTLET | • GRAVITY MAIN |
| • BREAK NODE | • STANDARD | • OFFFALL MAIN |
| • CLEAN OUT | • DROP MANHOLE | • SIPHON MAIN |
| • JUNCTION BOX | • STUB OUT | • SEWER LATERALS |
| • LIFT STATION | • SEWER ARV | • SERVICE CENTER |
| • MONOLITHIC | | • PROP. SEWER MAIN |

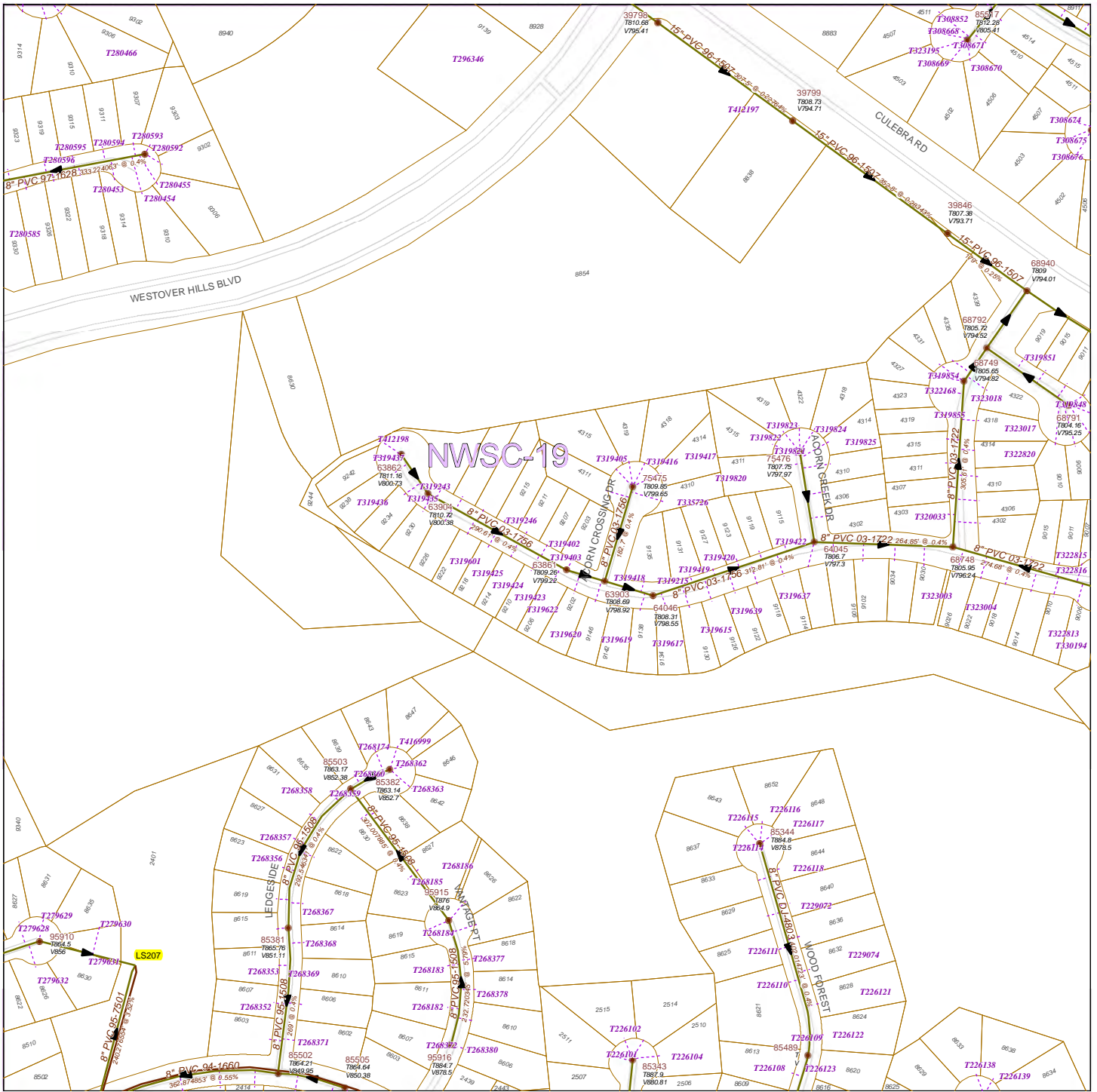
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WASTEWATER BLOCK MAP



MAN HOLES	OTHER	MAINS
○ AIR RELEASE	▽ SIPHON INLET	▲ FORCE MAIN
■ BLOW OFF	▣ SIPHON OUTLET	▲ GRAVITY MAIN
• BREAK NODE	● STANDARD	▲ OUTFALL MAIN
• CLEAN OUT	● DROP MANHOLE	▲ SIPHON MAIN
• JUNCTION BOX	• STUB OUT	— SEWER LATERALS
□ LIFT STATION	▲ SEWER ARV	— SERVICE CENTER
• MONOLITHIC		— PROP. SEWER MAIN

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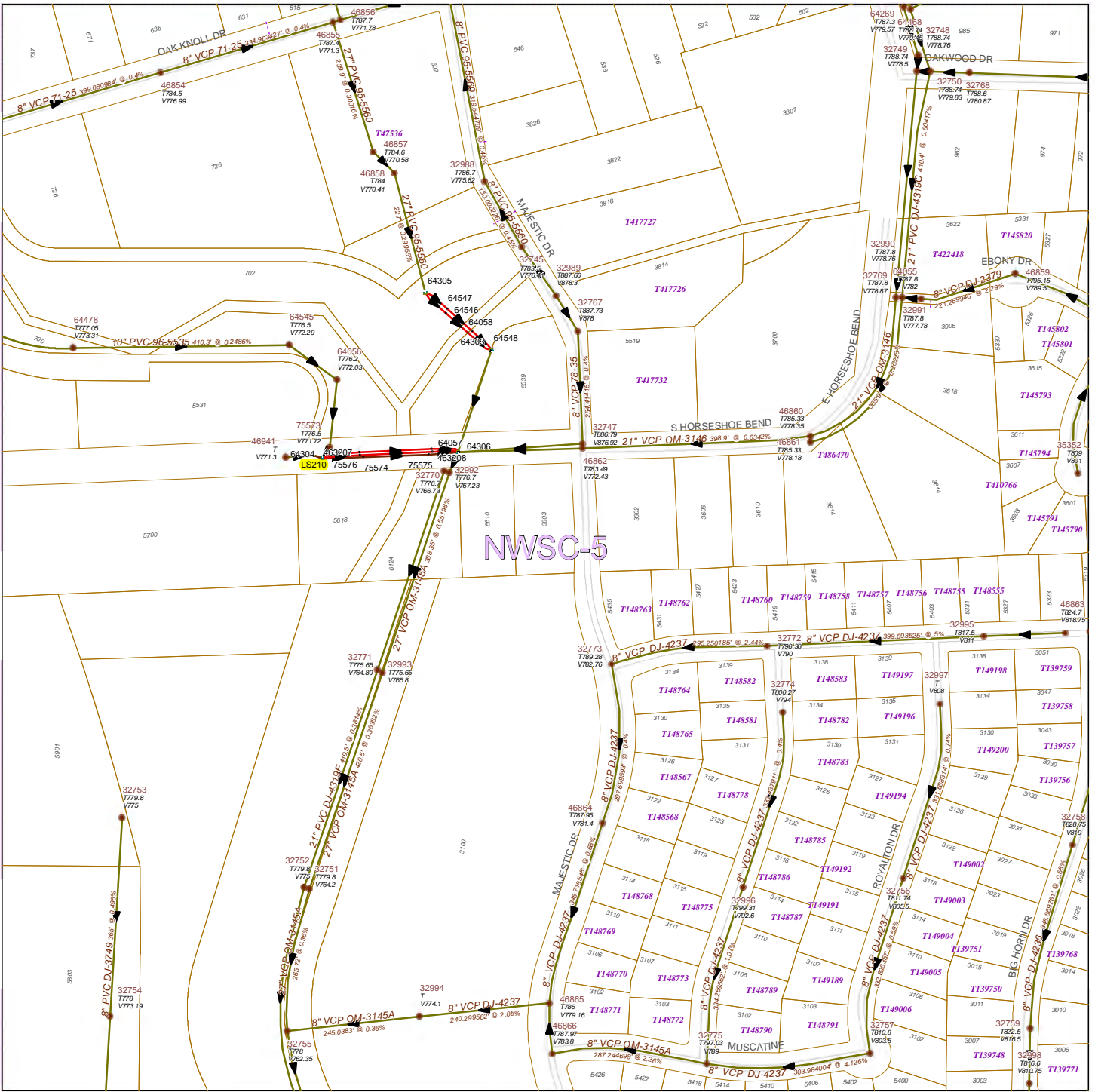
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WASTEWATER BLOCK MAP

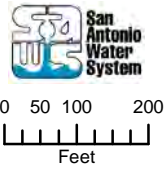


MAN HOLES	OTHER	MAINS
AIR RELEASE	SIPHON INLET	FORCE MAIN
BLOW OFF	SIPHON OUTLET	GRAVITY MAIN
BREAK NODE	STANDARD	OUTFALL MAIN
CLEAN OUT	DROP MANHOLE	SIPHON MAIN
JUNCTION BOX	STUB OUT	SEWER LATERALS
LIFT STATION	SEWER ARV	SERVICE CENTER
MONOLITHIC		PROP. SEWER MAIN

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WASTEWATER BLOCK MAP

144568

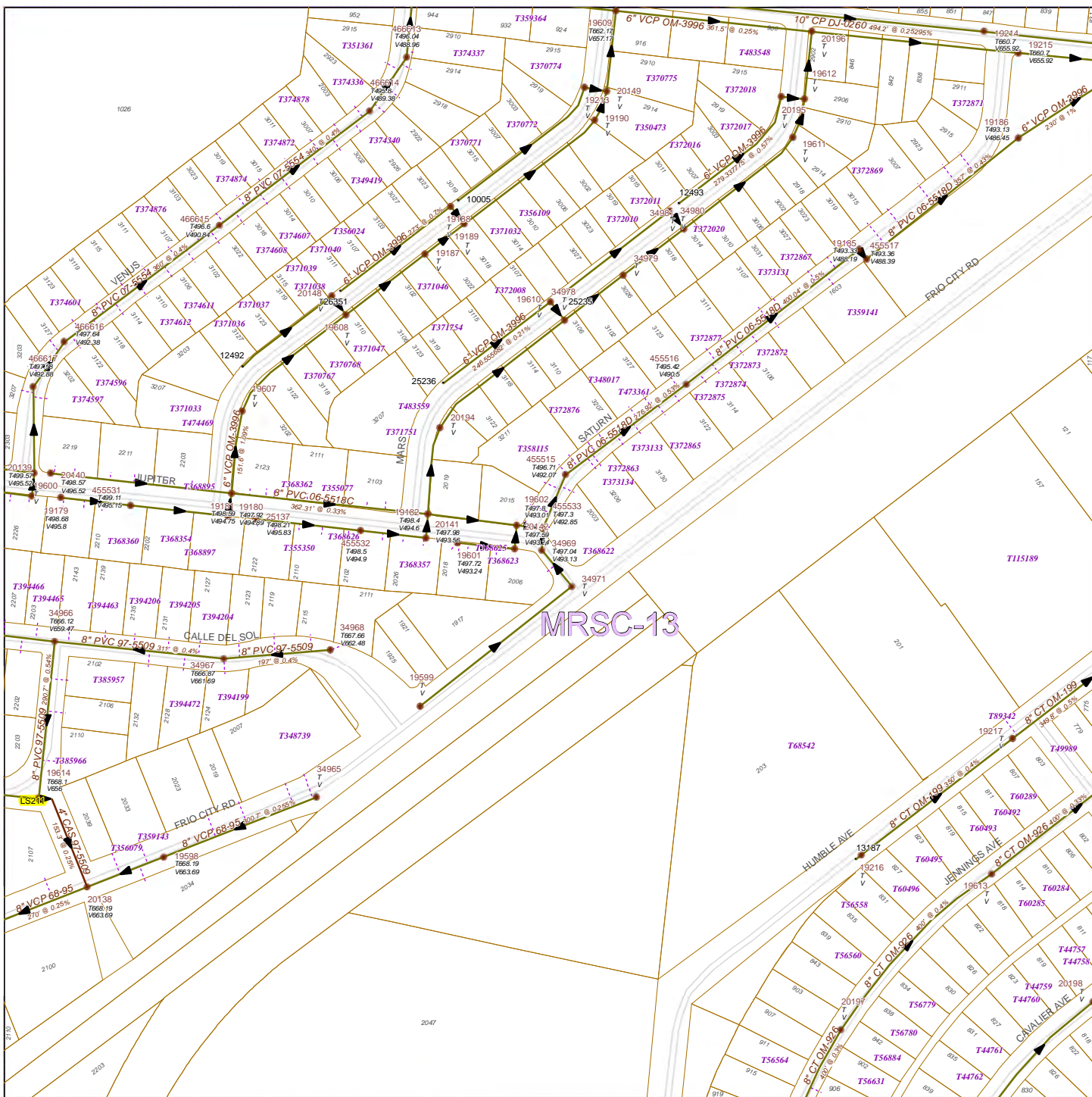
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144566

148566

144564

148564

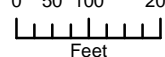


MAN HOLES	OTHER	MAINS
○ AIR RELEASE	▼ SIPHON INLET	▶ FORCE MAIN
■ BLOW OFF	▲ SIPHON OUTLET	▶ GRAVITY MAIN
● BREAK NODE	● STANDARD	▶ OUTFALL MAIN
● CLEAN OUT	● DROP MANHOLE	▶ SIPHON MAIN
● JUNCTION BOX	● STUB OUT	--- SEWER LATERALS
□ LIFT STATION	▲ SEWER ARV	■ SERVICE CENTER
● MONOLITHIC		▶ PROP. SEWER MAIN

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Mar 25, 2011



106538

WASTEWATER BLOCK MAP

106536

104538

108538

104536

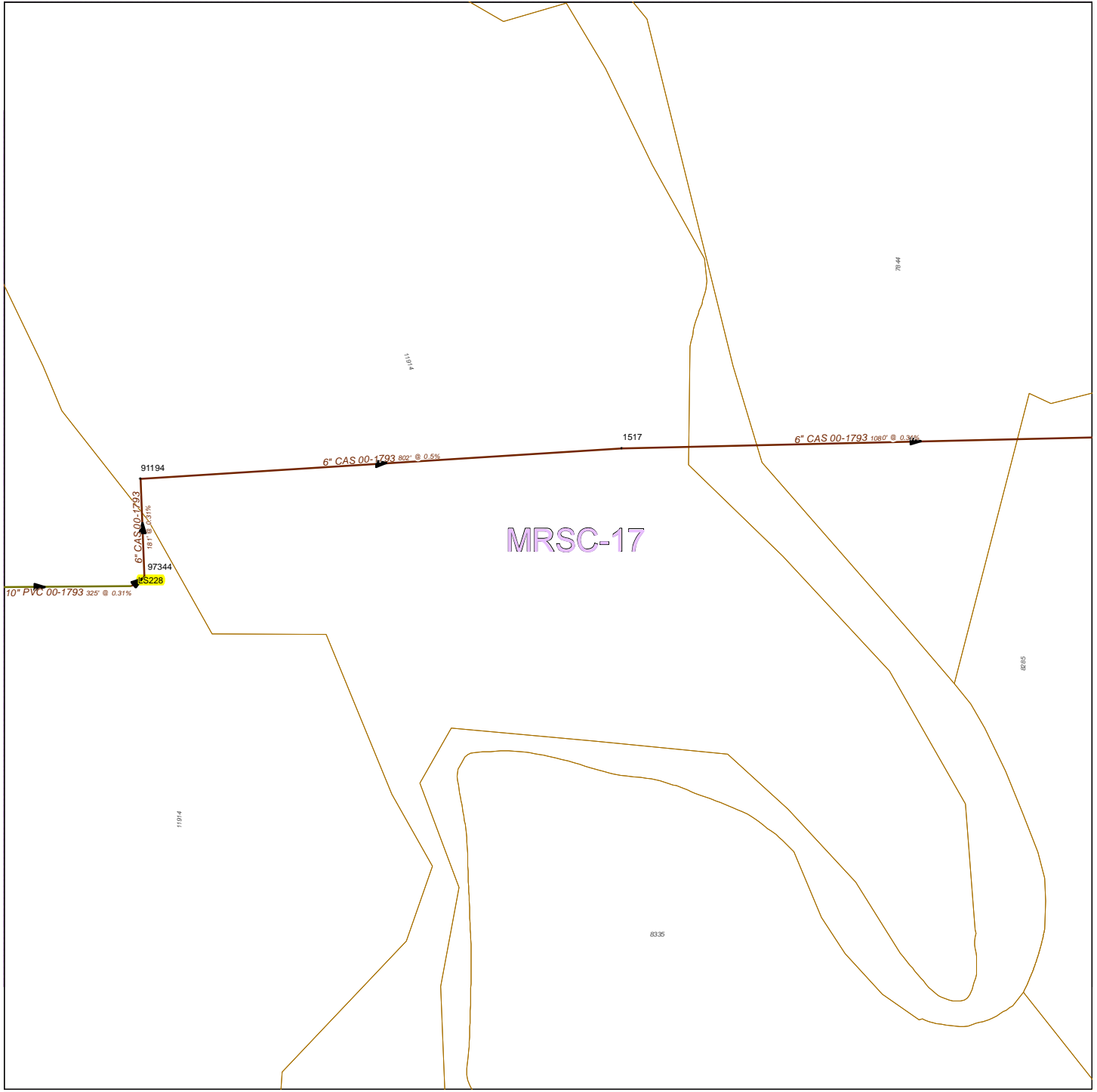
108536

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108534

106534

MRSC-17



MAN HOLES

- ◻ AIR RELEASE
- ⊠ BLOW OFF
- BREAK NODE
- CLEAN OUT
- JUNCTION BOX
- ◻ LIFT STATION
- MONOLITHIC

OTHER

- ◻ SIPHON INLET
- ◻ SIPHON OUTLET
- STANDARD
- ◻ DROP MANHOLE
- STUB OUT
- SEWER ARV

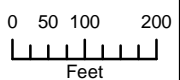
MAINS

- ◻ FORCE MAIN
- ◻ GRAVITY MAIN
- ◻ OUTFALL MAIN
- ◻ SIPHON MAIN
- SEWER LATERALS
- ◻ SERVICE CENTER
- ◻ PROP. SEWER MAIN

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WASTEWATER BLOCK MAP

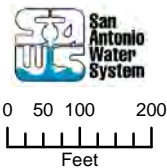


- | | | |
|------------------|-----------------|--------------------|
| MAN HOLES | OTHER | MAINS |
| • AIR RELEASE | • SIPHON INLET | • FORCE MAIN |
| • BLOW OFF | • SIPHON OUTLET | • GRAVITY MAIN |
| • BREAK NODE | • STANDARD | • OUTFALL MAIN |
| • CLEAN OUT | • DROP MANHOLE | • SIPHON MAIN |
| • JUNCTION BOX | • STUB OUT | • SEWER LATERALS |
| • LIFT STATION | • SEWER ARV | • SERVICE CENTER |
| • MONOLITHIC | | • PROP. SEWER MAIN |

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168512

WASTEWATER BLOCK MAP

168510

166512

170512

166510

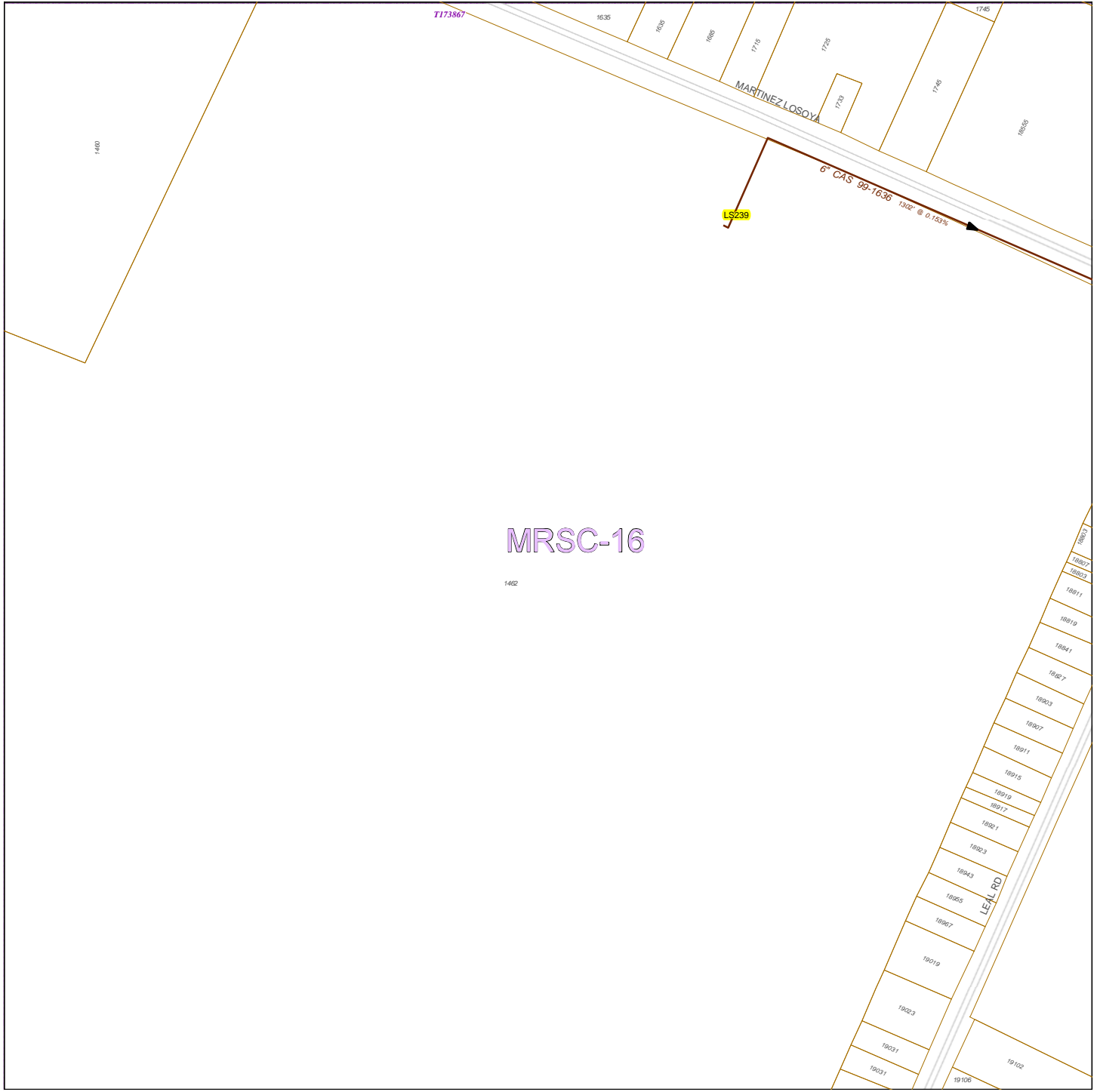
170510

166508

170508

MRSC-16

1402



168508

MAN HOLES

- ◻ AIR RELEASE
- ⊞ BLOW OFF
- BREAK NODE
- CLEAN OUT
- JUNCTION BOX
- ◻ LIFT STATION
- MONOLITHIC

OTHER

- ◻ SIPHON INLET
- ◻ SIPHON OUTLET
- STANDARD
- ◻ DROP MANHOLE
- STUB OUT
- ▲ SEWER ARV

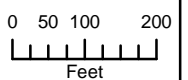
MAINS

- ▶ FORCE MAIN
- ▶ GRAVITY MAIN
- ▶ OUTFALL MAIN
- ▶ SIPHON MAIN
- SEWER LATERALS
- ◻ SERVICE CENTER
- ▶ PROP. SEWER MAIN

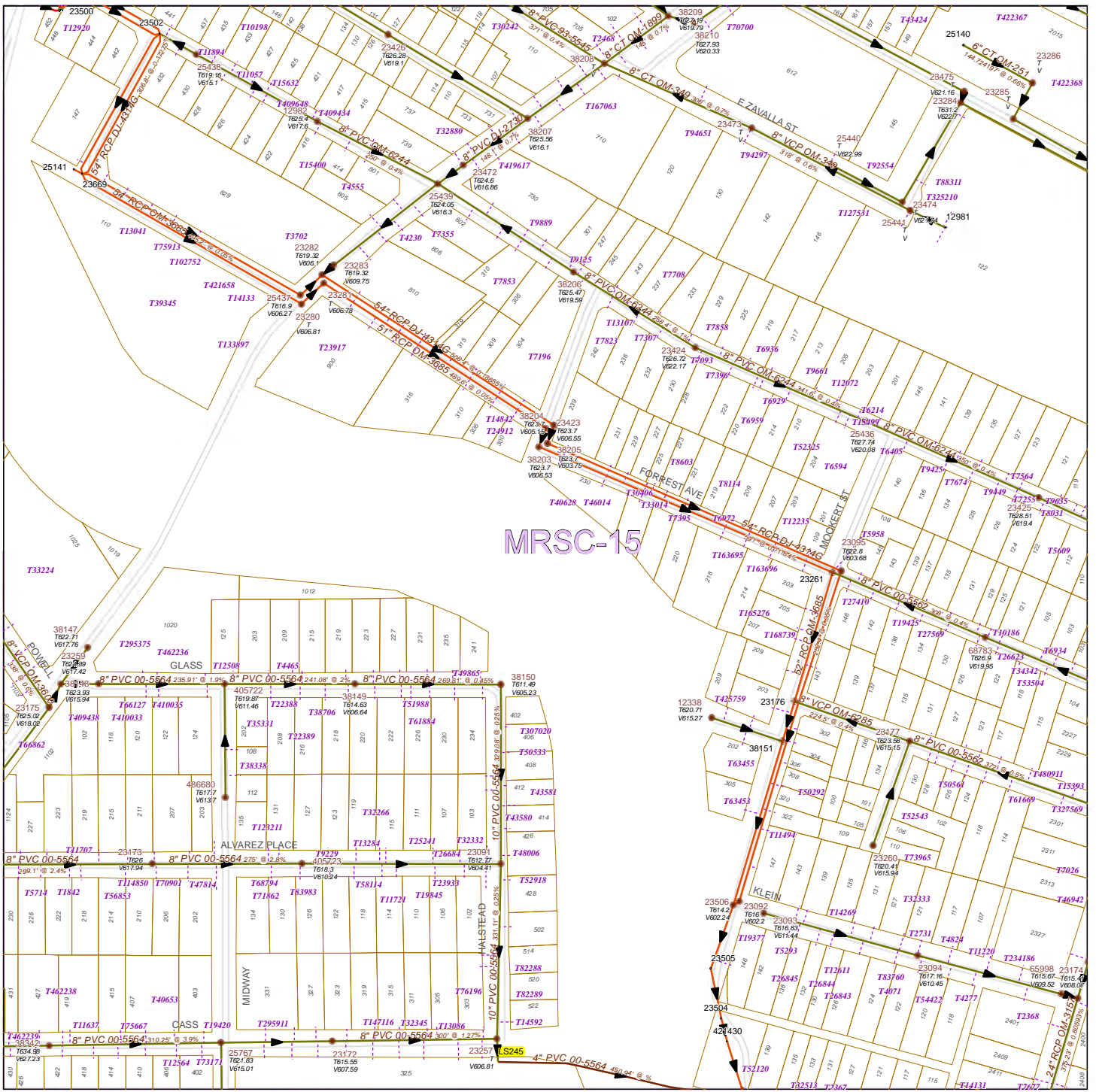
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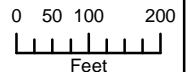
WASTEWATER BLOCK MAP



- | | | |
|------------------|-----------------|--------------------|
| MAN HOLES | OTHER | MAINS |
| • AIR RELEASE | • SIPHON INLET | • FORCE MAIN |
| • BLOW OFF | • SIPHON OUTLET | • GRAVITY MAIN |
| • BREAK NODE | • STANDARD | • OUTFALL MAIN |
| • CLEAN OUT | • DROP MANHOLE | • SIPHON MAIN |
| • JUNCTION BOX | • STUB OUT | • SEWER LATERALS |
| • LIFT STATION | • SEWER ARV | • SERVICE CENTER |
| • MONOLITHIC | | • PROP. SEWER MAIN |

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160672

WASTEWATER BLOCK MAP

160670

158672

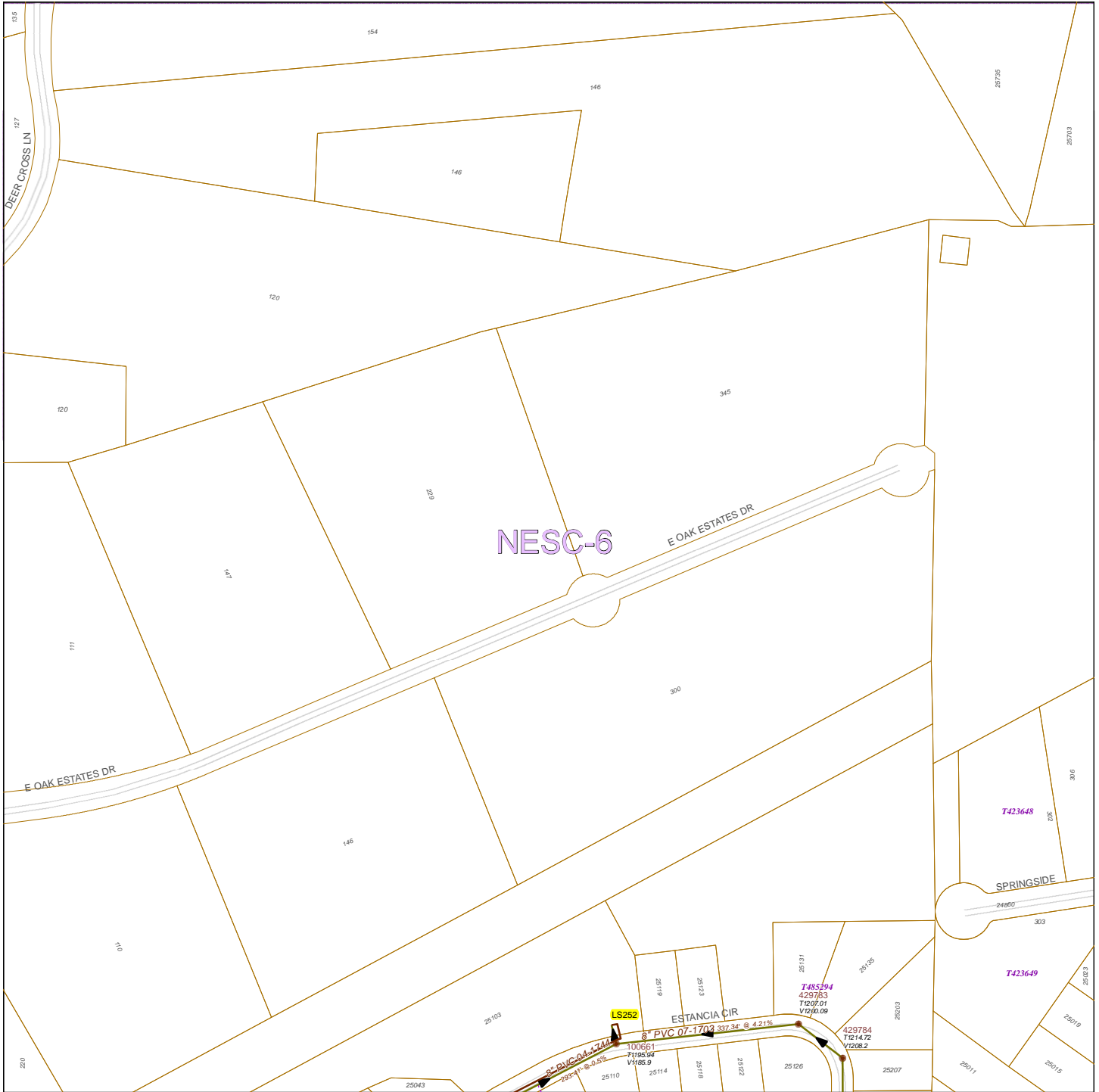
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158670

162670

158668

162668



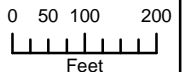
160668

MAN HOLES		OTHER		MAINS	
□	AIR RELEASE	▼	SIPHON INLET	▲	FORCE MAIN
■	BLOW OFF	▣	SIPHON OUTLET	▲	GRAVITY MAIN
•	BREAK NODE	•	STANDARD	▲	OUTFALL MAIN
•	CLEAN OUT	•	DROP MANHOLE	▲	SIPHON MAIN
•	JUNCTION BOX	•	STUB OUT	---	SEWER LATERALS
□	LIFT STATION	•	SEWER ARV	□	SERVICE CENTER
•	MONOLITHIC			▲	PROP. SEWER MAIN

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136544

WASTEWATER BLOCK MAP

136542

134544

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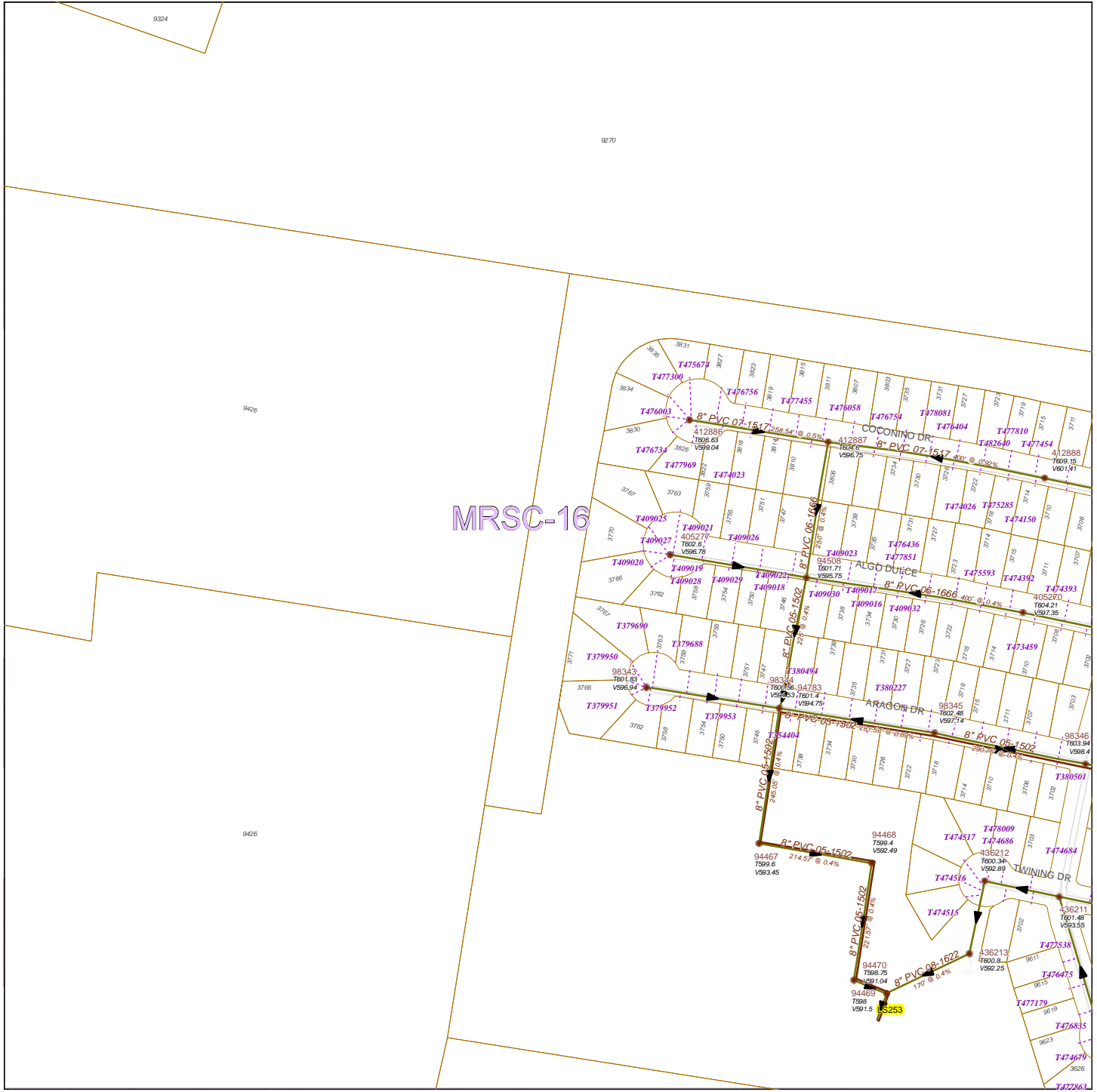
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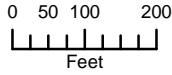


MAN HOLES		OTHER		MAINS	
○	AIR RELEASE	▼	SIPHON INLET	⬇	FORCE MAIN
⊠	BLOW OFF	▣	SIPHON OUTLET	⬇	GRAVITY MAIN
•	BREAK NODE	●	STANDARD	⬇	OUTFALL MAIN
•	CLEAN OUT	•	DROP MANHOLE	⬇	SIPHON MAIN
•	JUNCTION BOX	•	STUB OUT	---	SEWER LATERALS
⊠	LIFT STATION	•	SEWER ARV	□	SERVICE CENTER
•	MONOLITHIC			⬇	PROP. SEWER MAIN

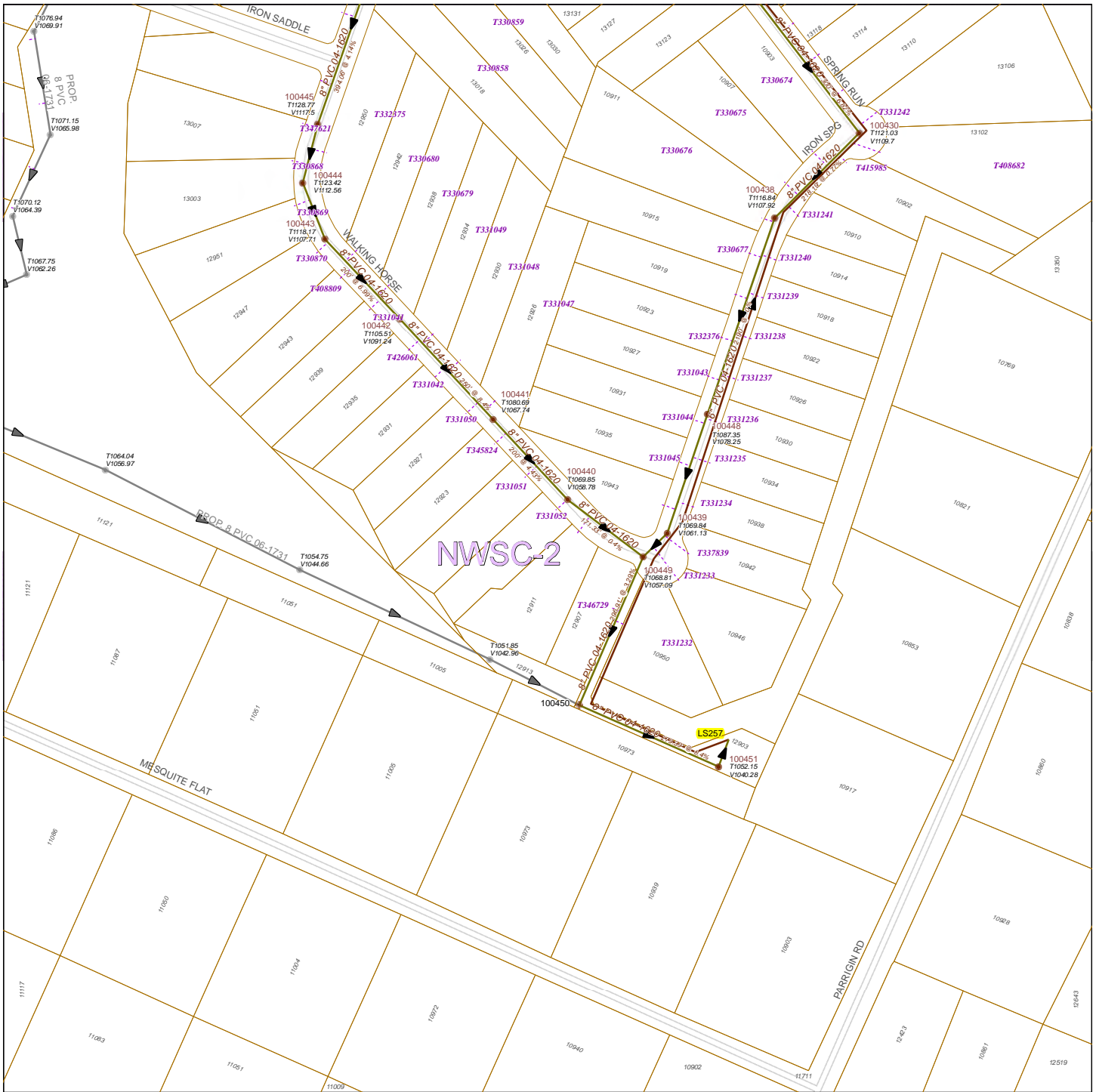
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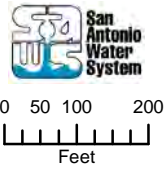
WASTEWATER BLOCK MAP



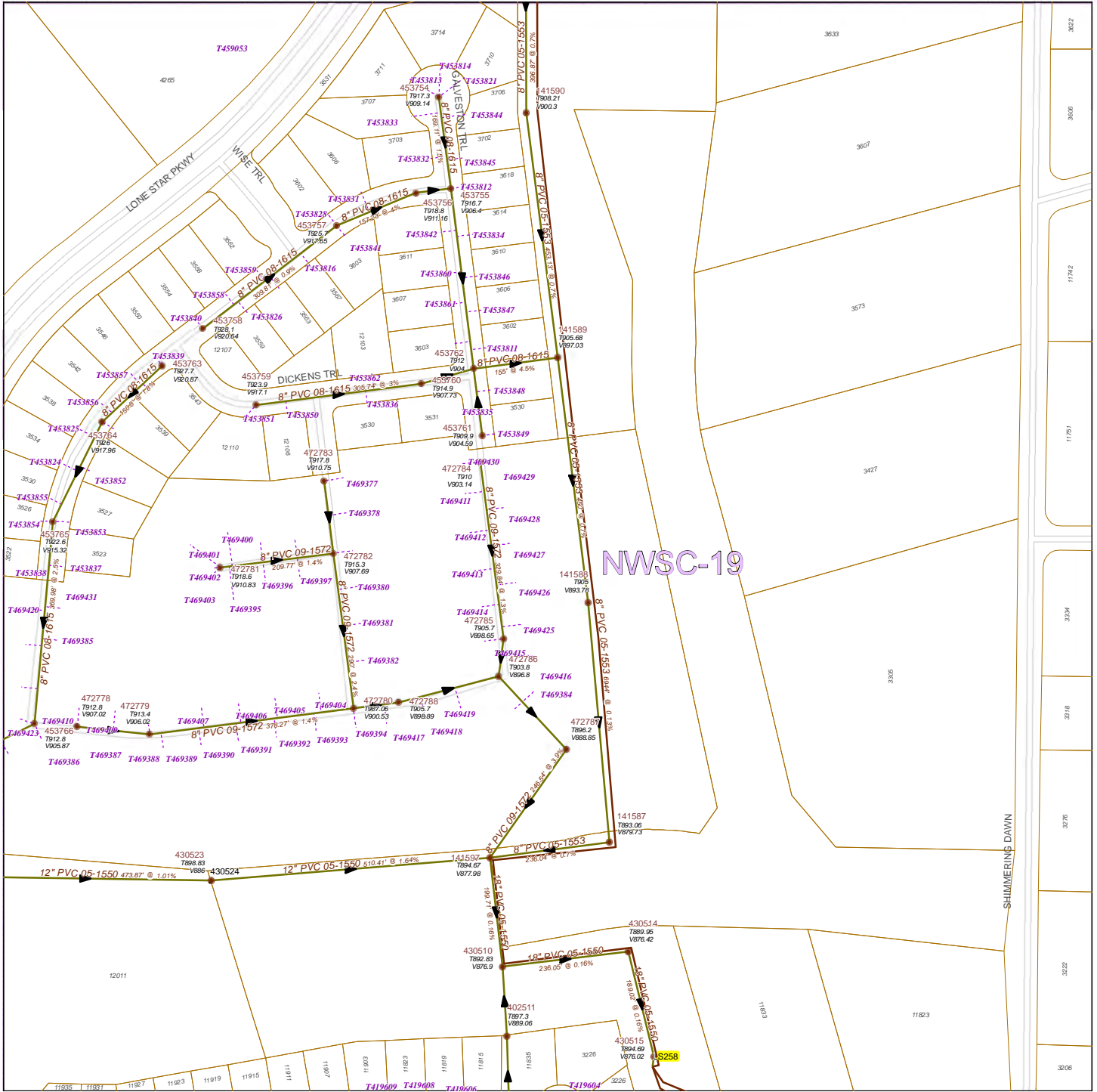
MAN HOLES	OTHER	MAINS
□ AIR RELEASE	▽ SIPHON INLET	▬ FORCE MAIN
■ BLOW OFF	▬ SIPHON OUTLET	▬ GRAVITY MAIN
• BREAK NODE	● STANDARD	▬ OUTFALL MAIN
• CLEAN OUT	● DROP MANHOLE	▬ SIPHON MAIN
• JUNCTION BOX	• STUB OUT	▬ SEWER LATERALS
□ LIFT STATION	▲ SEWER ARV	▬ SERVICE CENTER
• MONOLITHIC		▬ PROP. SEWER MAIN

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WASTEWATER BLOCK MAP

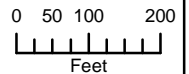


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| MAN HOLES | OTHER | MAINS |
| • AIR RELEASE | • SIPHON INLET | • FORCE MAIN |
| • BLOW OFF | • SIPHON OUTLET | • GRAVITY MAIN |
| • BREAK NODE | • STANDARD | • OUTFALL MAIN |
| • CLEAN OUT | • DROP MANHOLE | • SIPHON MAIN |
| • JUNCTION BOX | • STUB OUT | • SEWER LATERALS |
| • LIFT STATION | • SEWER ARV | • SERVICE CENTER |
| • MONOLITHIC | | • PROP. SEWER MAIN |

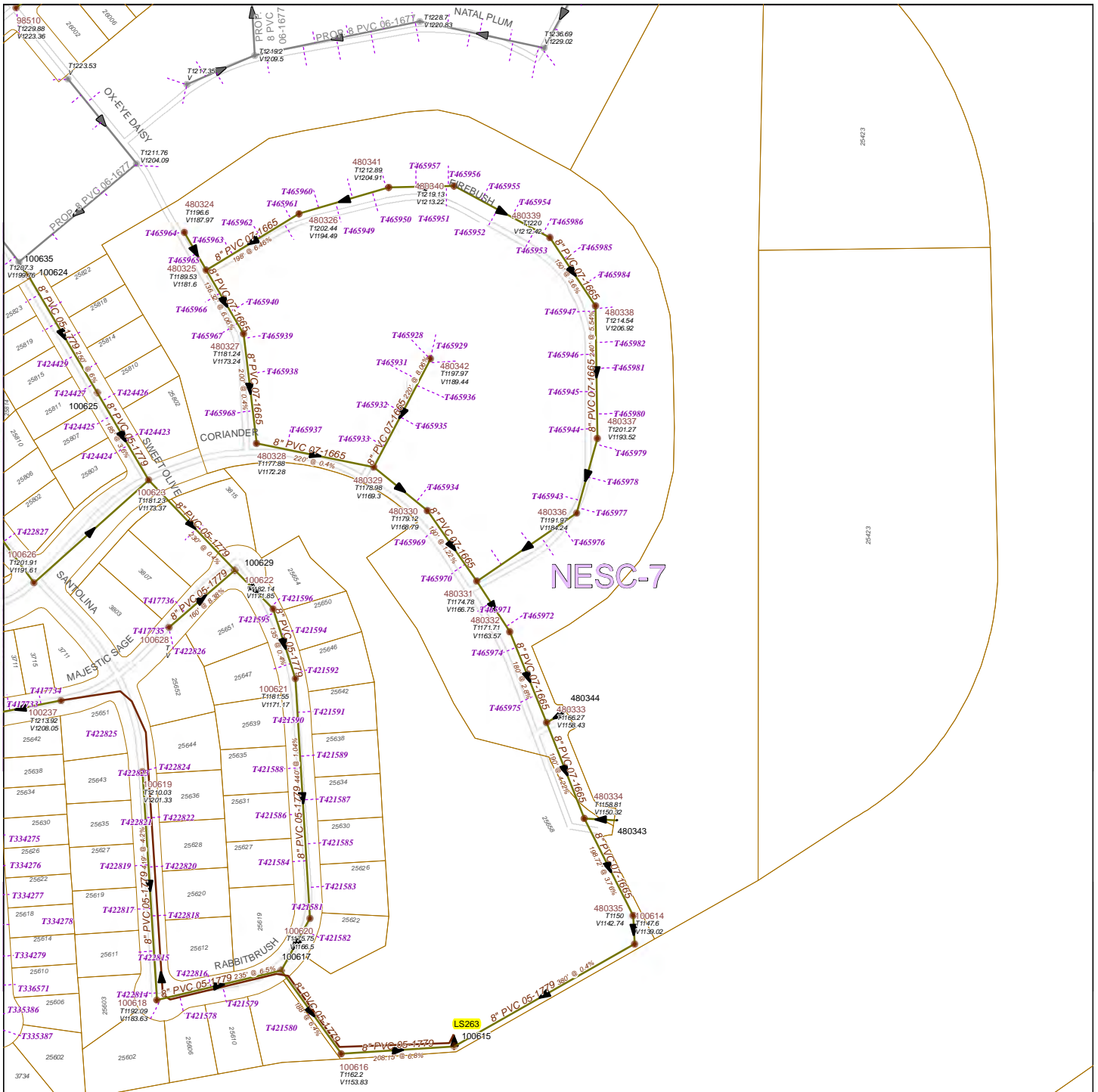
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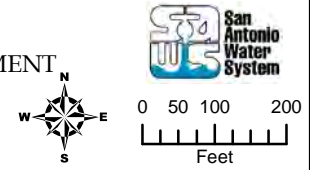


MAN HOLES	OTHER	MAINS
○ AIR RELEASE	▽ SIPHON INLET	▲ FORCE MAIN
⊞ BLOW OFF	▣ SIPHON OUTLET	▲ GRAVITY MAIN
● BREAK NODE	● STANDARD	▲ OFFFALL MAIN
○ CLEAN OUT	● DROP MANHOLE	▲ SIPHON MAIN
⊞ JUNCTION BOX	● STUB OUT	--- SEWER LATERALS
⊞ LIFT STATION	▲ SEWER ARV	□ SERVICE CENTER
● MONOLITHIC		▲ PROP. SEWER MAIN

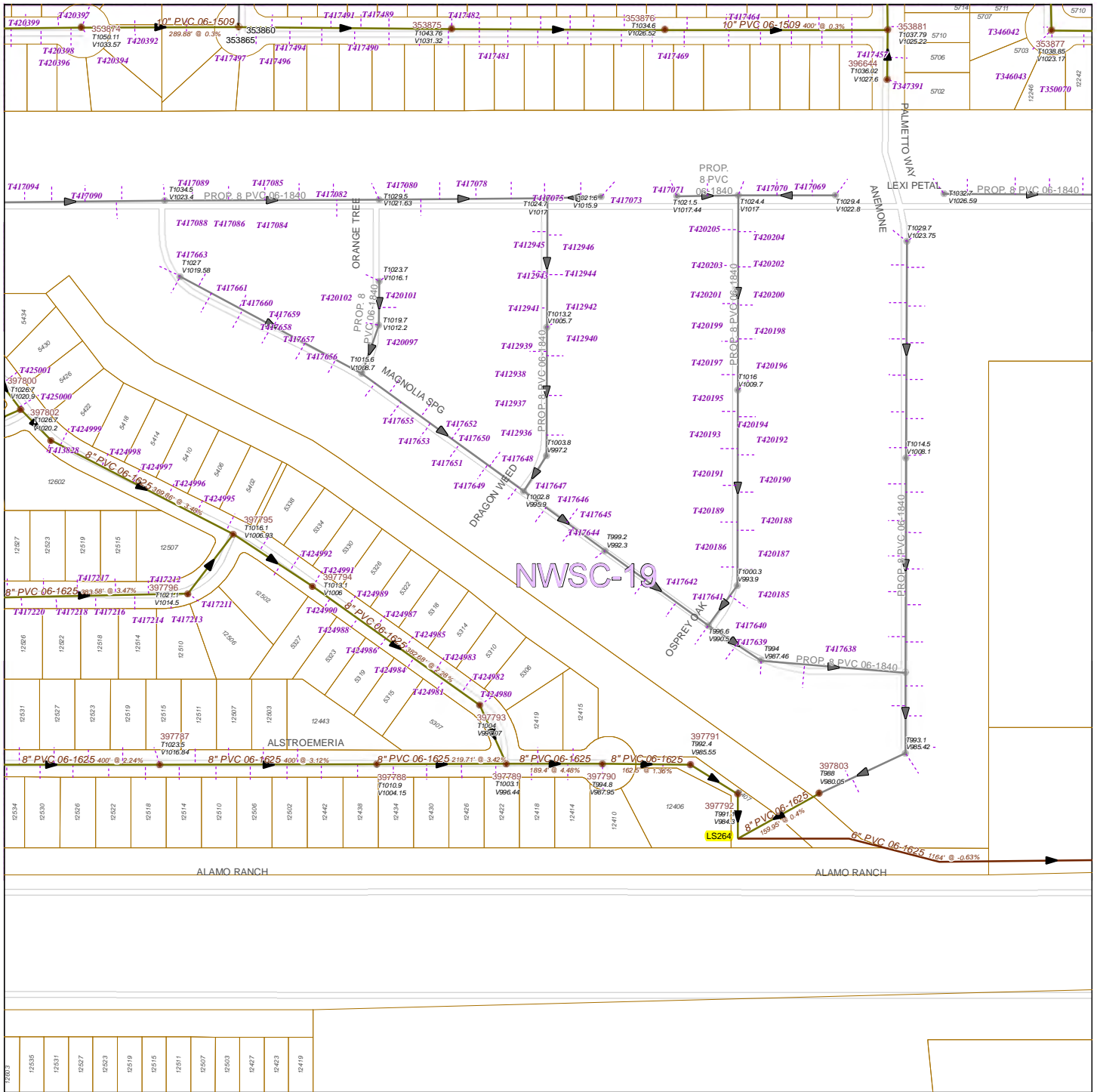
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WASTEWATER BLOCK MAP

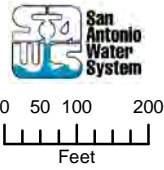


- | | | |
|------------------|-----------------|--------------------|
| MAN HOLES | OTHER | MAINS |
| • AIR RELEASE | • SIPHON INLET | • FORCE MAIN |
| • BLOW OFF | • SIPHON OUTLET | • GRAVITY MAIN |
| • BREAK NODE | • STANDARD | • OFFFALL MAIN |
| • CLEAN OUT | • DROP MANHOLE | • SIPHON MAIN |
| • JUNCTION BOX | • STUB OUT | • SEWER LATERALS |
| • LIFT STATION | • SEWER ARV | • SERVICE CENTER |
| • MONOLITHIC | | • PROP. SEWER MAIN |

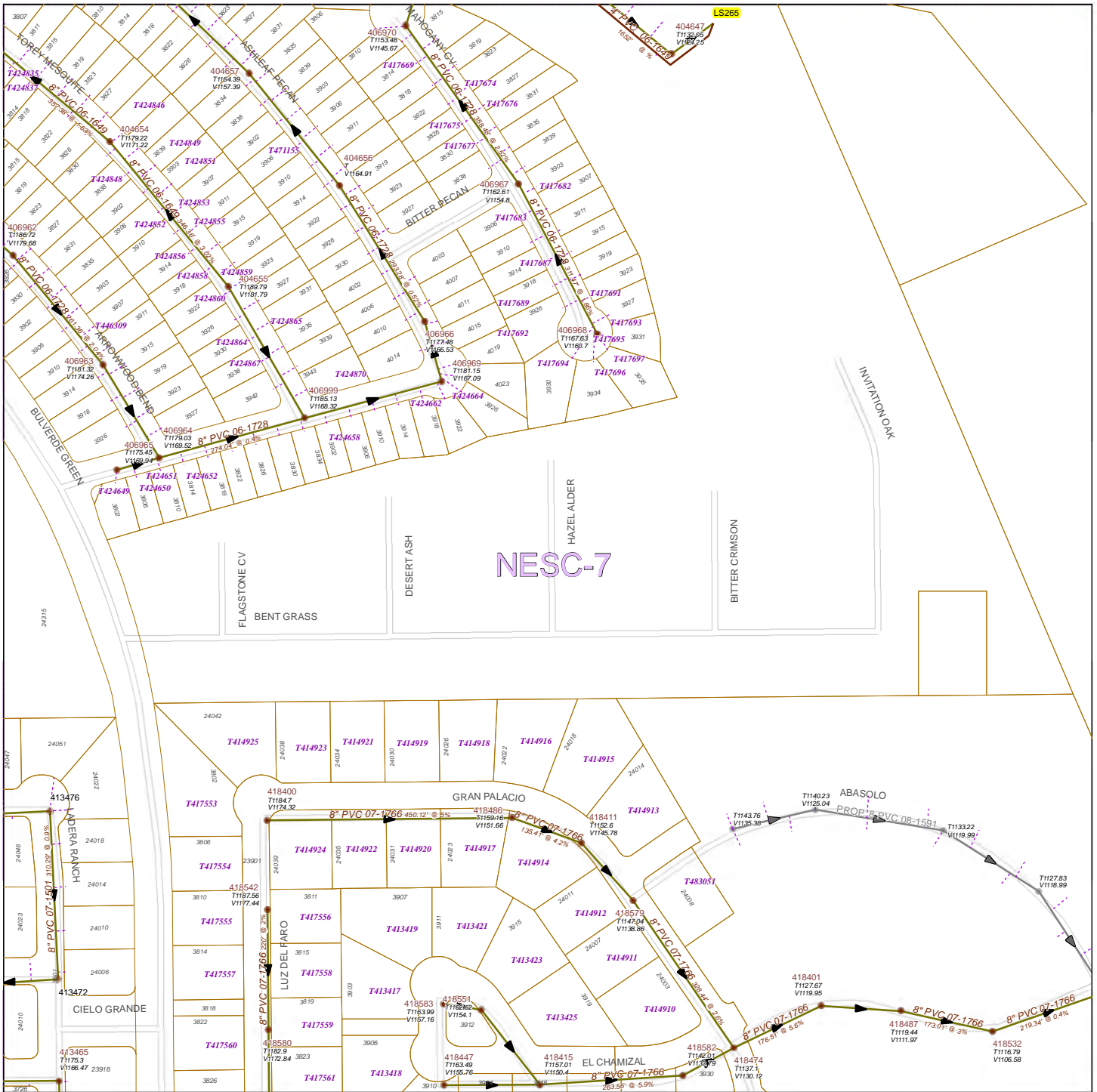
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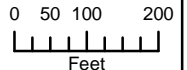
WASTEWATER BLOCK MAP



MAN HOLES	OTHER	MAINS
□ AIR RELEASE	▼ SIPHON INLET	● FORCE MAIN
■ BLOW OFF	▬ SIPHON OUTLET	● GRAVITY MAIN
● BREAK NODE	● STANDARD	● OUTFALL MAIN
● CLEAN OUT	● DROP MANHOLE	● SIPHON MAIN
● JUNCTION BOX	● STUB OUT	— SEWER LATERALS
□ LIFT STATION	▲ SEWER ARV	— SERVICE CENTER
● MONOLITHIC		— PROP. SEWER MAIN

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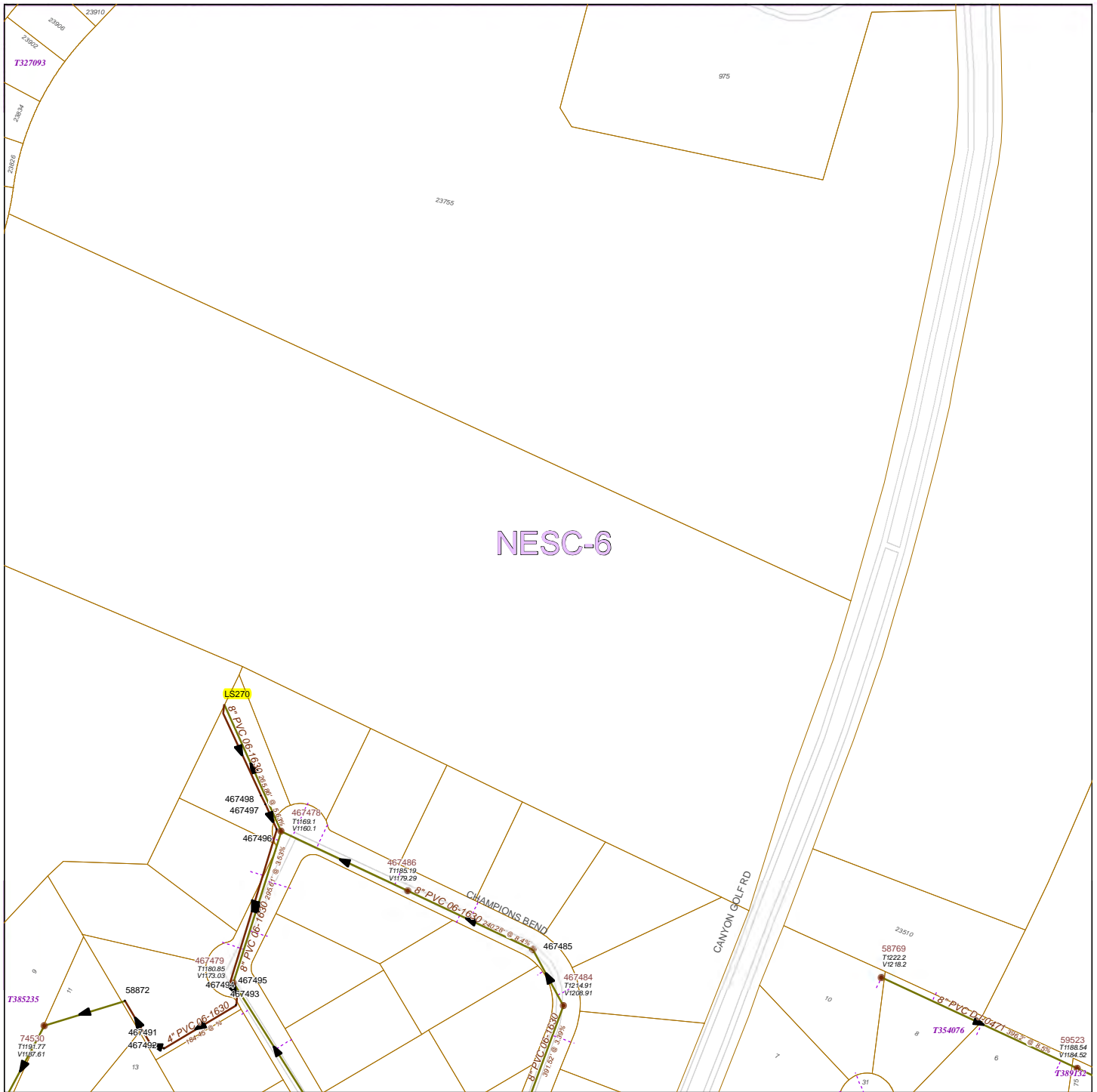
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WASTEWATER BLOCK MAP

NESC-6



MAN HOLES		OTHER		MAINS	
□	AIR RELEASE	▽	SIPHON INLET	▶	FORCE MAIN
■	BLOW OFF	▣	SIPHON OUTLET	▶	GRAVITY MAIN
•	BREAK NODE	•	STANDARD	▶	OUTFALL MAIN
•	CLEAN OUT	•	DROP MANHOLE	▶	SIPHON MAIN
•	JUNCTION BOX	•	STUB OUT	---	SEWER LATERALS
□	LIFT STATION	•	SEWER ARV	□	SERVICE CENTER
•	MONOLITHIC			▶	PROP. SEWER MAIN

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