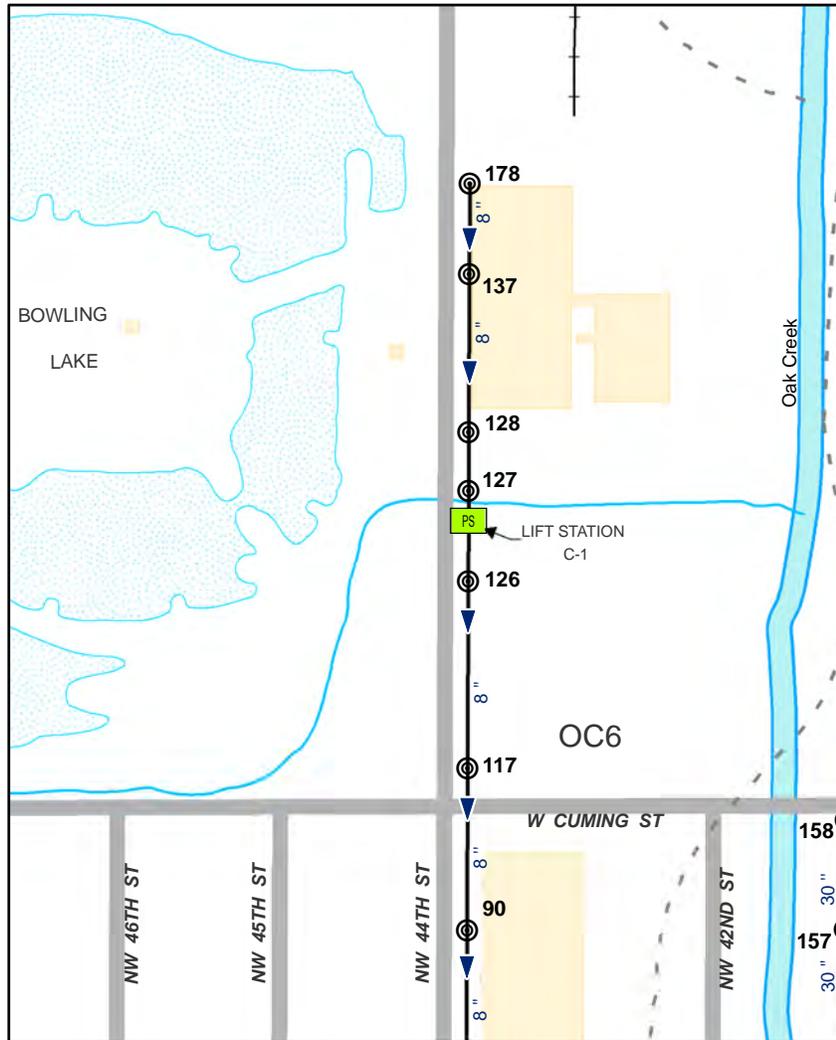


**Appendix A – Lift Station Information and Routine  
Maintenance Schedules**

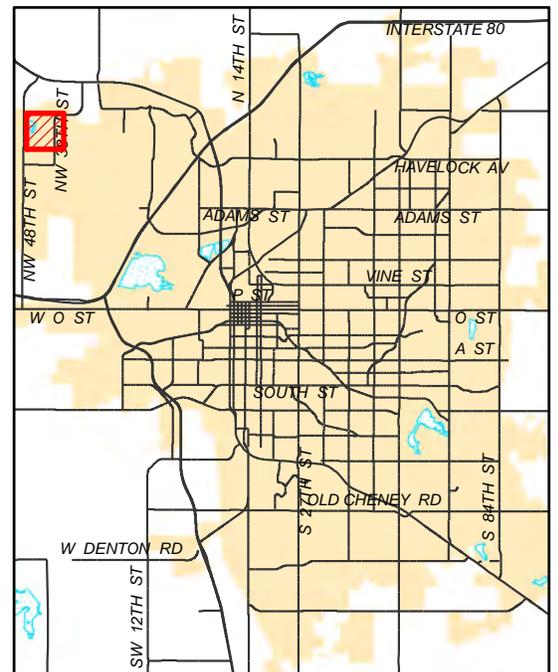
# Map Location for Lift Station C-1 NW 44th & West Cuming Street



**Aerial**



**Overview Map**



**Information Fact Sheet for Lift Station C-1**  
**Location: NW 44<sup>th</sup> & West Cummings**



**Description:** Lift Station C-1 is a small duplex submersible pump station. The station serves two warehouse facilities and a Police Dog Training facility located in the industrial park of the Lincoln Airport authority. Originally, the station was designed as a pneumatic ejector pumping system. It has been redesigned as a wetwell-mounted submersible station. This station is scheduled to have the pumps and check valves replaced in the near future. The Wastewater Division currently has this equipment in storage. The controls and control cabinet are in good condition.

**Deficiencies:** There are currently no significant deficiencies with this pumping station.

**Drainage Basin:** Oak Creek

**Current Service Area:** 7 acres

**Avg Daily Flow gpm/cfs/acre:** not available

**Peak Flow gpm/cfs/acre :** not available

**Configuration:** Duplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-C101	Flygt Model CP-3085.180	250 gpm, 20 TDH	2.5/230/7.4
RWPS-C102	Flygt Model CP-3085.180	250 gpm, 20 TDH	2.5/230/7.4
LC-1	Level Controller		
MBP-C101	Main Breaker Panel		
MCC-C101	Motor Control Center		
TM-C101	Telemetry Panel (OL-49-663)		

**Standby Power:** None

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit OL-49-663

## Scheduled Maintenance and Information

240V/3/30A Service    Connected HP-5.0

RWPS-C101 / Raw Wastewater Submersible Pump 2.5 HP 250 GPM @ 20' TDH  
 Flygt-CP-3085.182  
 Volts / Amps- [240]/480-[7.4]/3.7

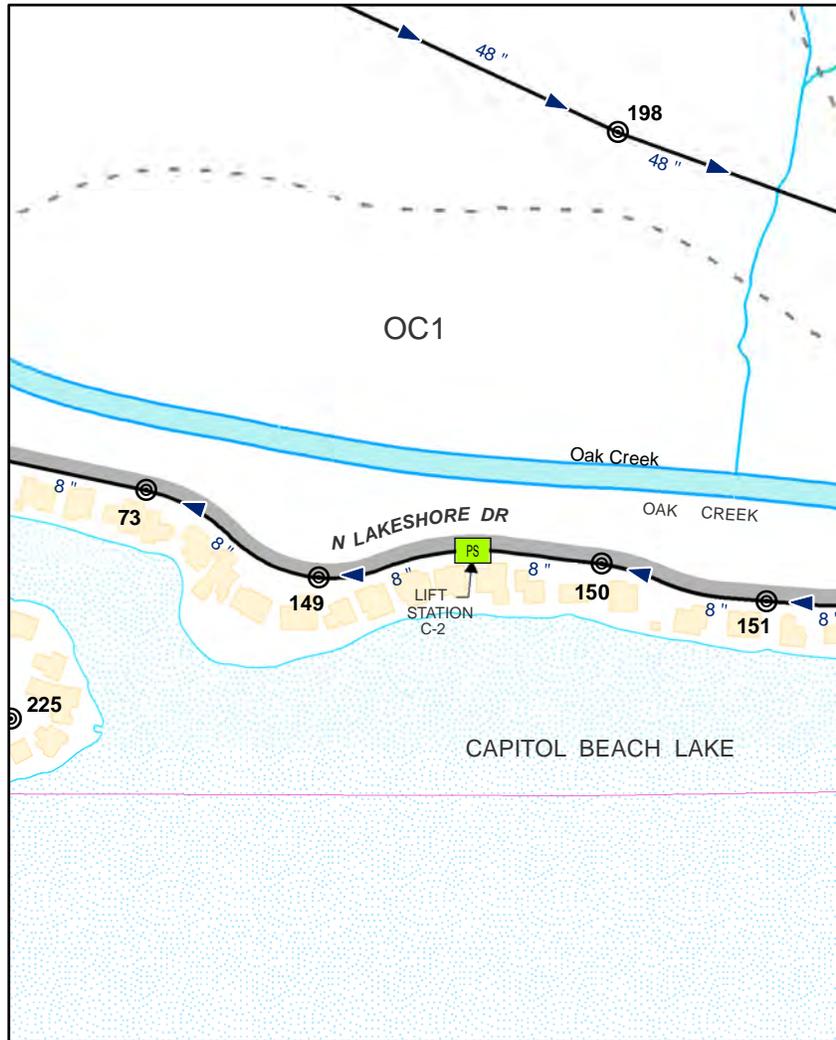
RWPS-C102 / Raw Wastewater Submersible Pump 2.5 HP 250 GPM @ 20' TDH  
 Flygt-CP-3085.182  
 Volts / Amps- [240]/480-[7.4]/3.7

Radio Communication ID # RCE-C101

C01 Base to AirPark Tower Base CM9 - 2.4GHz.

<b>C01</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C101	Motor Control Center	MCC-C101 / ANNUAL PANEL CLEANING
PLC-C101	PLC Cabinet at C01	PLC-C101 / ANNUAL PANEL CLEANING
PLC-C101	PLC Cabinet at C01	PLC-C101 / QUARTERLY TELEMETERING ALARM VARIFICATION
LC-C101	Level Controller	LC-C101 / MONTHLY BLOW DOWN & MAINTENANCE
RWPS-C101	Raw Wastewater Submersible Pump RWPS-9C	RWP-C101 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C101	Raw Wastewater Submersible Pump RWPS-9C	RWPS-C101 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C102	Raw Wastewater Submersible Pump RWPS-10C	RWPS-C102 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-1	Sanitary Lift Station (NW44 & W. Cumings)	C-1 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
FP-LS	Group of Fire Extinguishers, Liftstation	LIFTSTATION ANNUAL FIRE EXTINGUISHER INSPECTION
C-1	Sanitary Lift Station (NW44 & W. Cumings)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-1	Sanitary Lift Station (NW44 & W. Cumings)	WEEKLY BUILDING & EQUIPMENT INSPECTION

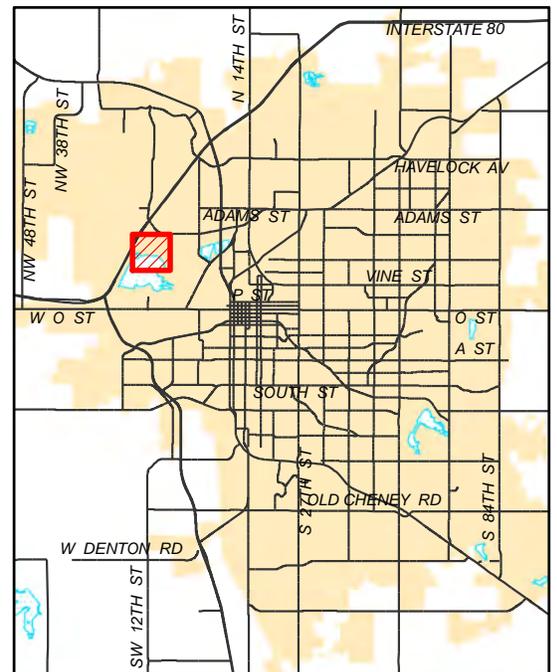
# Map Location for Lift Station C-2 952 North Lakeshore Drive



**Aerial**



**Overview Map**



**Information Fact Sheet for Lift Station C-2**  
**Location: 952 North Lakeshore Drive**



**Description:** Lift Station C-2 is located on the north side of Capital Beach Lake behind the south curb line of North Lakeshore Drive. The station serves approximately 12 homes located around the lake perimeter. A new access hatch was recently installed. The station is equipped with only one submersible pump (simplex) and the wetwell has an overflow pipe that allows wastewater to enter the downstream collection system if the wetwell level gets too high. Due to the location of this station, the potential for additional service area is limited.

**Deficiencies:** The station has been reliable and no service interruptions have been experienced. Plants and shrubbery around the station have been the only nuisance.

**Drainage Basin:** Oak Creek

**Current Service Area:** 4 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Simplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-1C	Flygt Model CP-3085.181	100 gpm, 20 TDH	2/230/6.4
MCC-C201	Motor Control Center		
MTF-1	Mercury Tilt Float Switch		
SG-1	Electrical Switch Gear		
TM-C201	Telemetry Panel (OL-49-694)		

**Standby Power:** None

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit OL-49-694

**Planned Capital Improvements:** None planned. Future improvements funded through capital outlay budget(s).

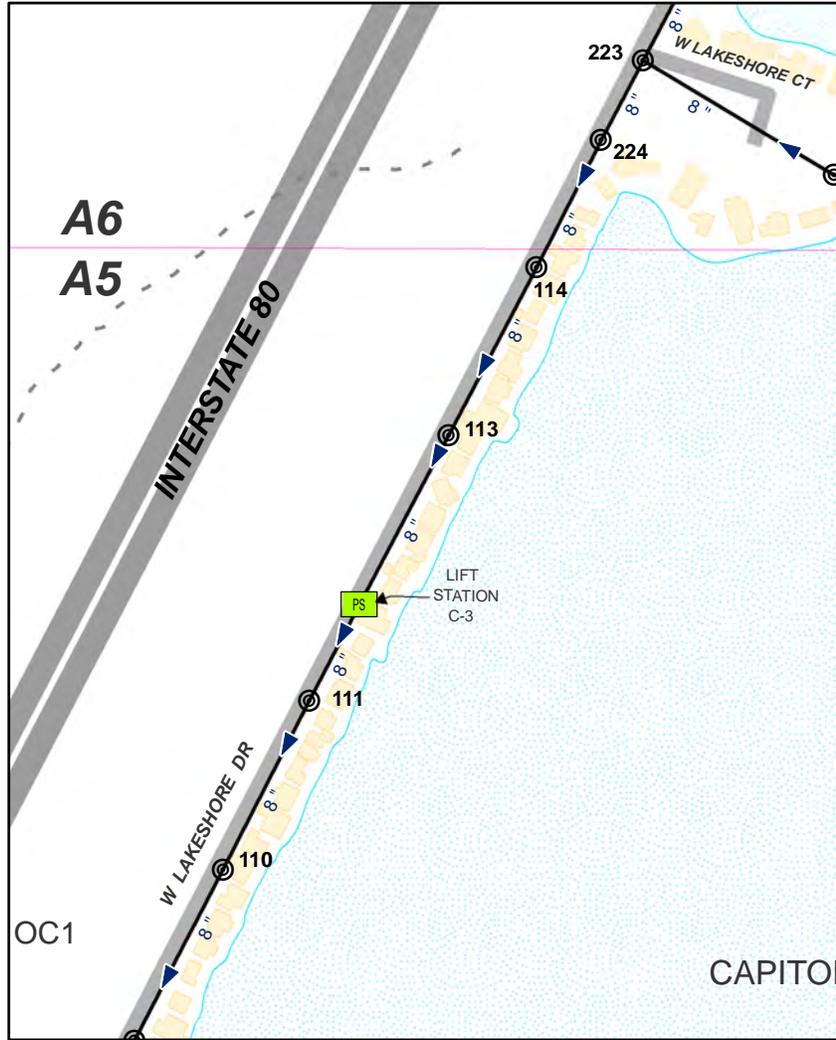
## Scheduled Maintenance and Information

240V/3/30A Service                      Connected HP-2.0  
 RWPS-C201 / Raw Wastewater Submersible Pump              2.0 HP 100 @ 20' TDH  
 Flygt-CP-3 085.181  
 Volts / Amps- [240]/480-[6.4]/3.2

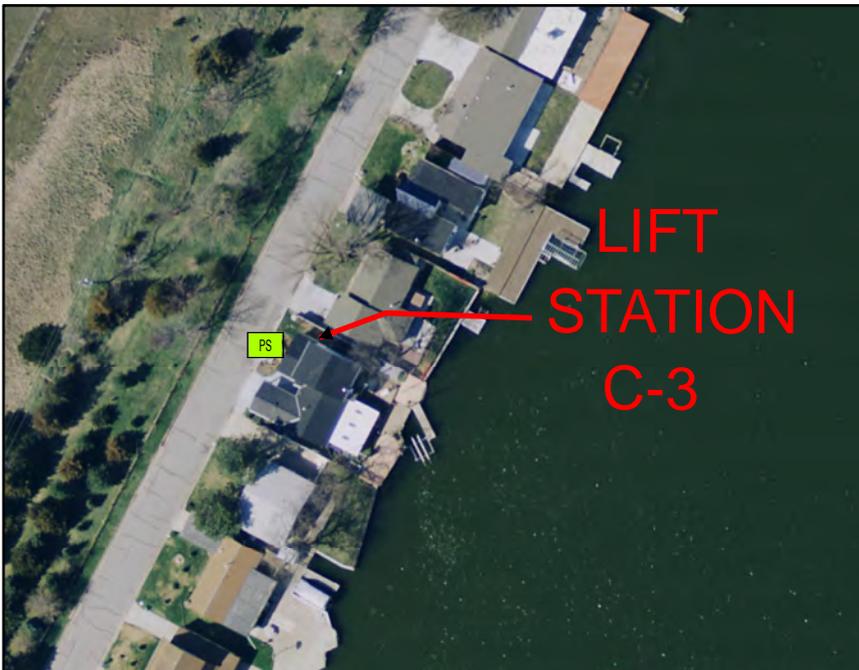
Radio Communication ID# RCE-C201                      C02 Base/Relay to AirParkTower Base                      CM9 - 5.0MHz.  
 CM9 - 2.4GHz / SR9 - 900MHz.

<b>C02</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C201	Motor Control Center	MCC-C201 / ANNUAL PANEL CLEANING
PLC-C201	PLC Cabinet at C02	PLC-C201 / ANNUAL PANEL CLEANING
PLC-C201	PLC Cabinet at C02	PLC-C201 / QUARTERLY TELEMETERING ALARM VARIFICATION
RWPS-C201	Raw Wastewater Submersible Pump RWPS-1C	RWPS-C201 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-2	Sanitary Lift Station (952 N. Lakeshore)	C-2 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-2	Sanitary Lift Station (952 N. Lakeshore)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-2	Sanitary Lift Station (952 N. Lakeshore)	WEEKLY BUILDING & EQUIPMENT INSPECTION

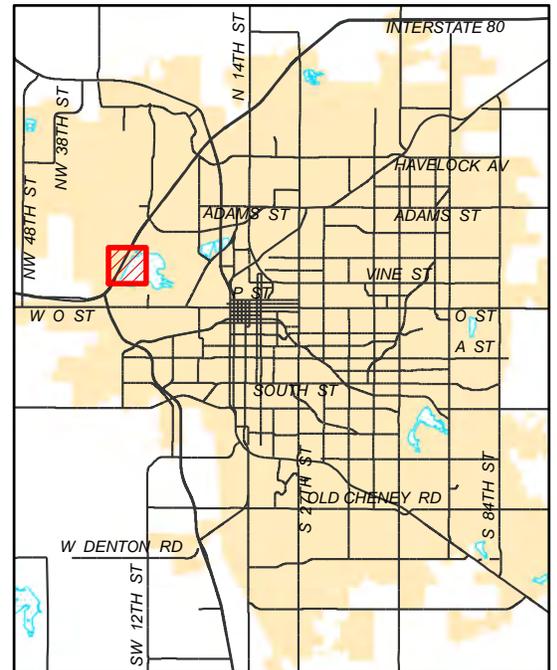
# Map Location for Lift Station C-3 412 West Lakeshore Drive



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-3

**Location:** 412 West Lakeshore Drive



**Description:** Lift Station C-3 is a submersible simplex pump station located on the west side of Capital Beach Lake behind the east curblin. The lower portion of the station is made of precast concrete while the upper portion, above the operating water level is made of steel.

**Deficiencies:** The station is experiencing corrosion problems in the control panel and the access hatch. There is a large maple tree adjacent to the station and the roots from this tree have intruded into the surrounding vitrified clay sewer line. These roots have been responsible for plugging of the sewer line and property damage to the house shown in the background of the photograph above. The Wastewater Division is currently working with the home owner to have the tree removed so that rehabilitation of the station can occur.

**Drainage Basin:** Oak Creek

**Current Service Area:** 20 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Simplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-2C	Flygt Model CP-3085.181	120 gpm, 10 TDH	2/230/6.6
MCC-C301	Motor Control Center		
MTF-2	Mercury Tilt Float Switch		
SG-2	Electrical Switch Gear		
TM-C301	Telemetry Panel (OL-49-693)		

**Standby Power:** None.

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry  
Circuit OL-49-693

## Scheduled Maintenance and Information

240V/3/30A Service Connected HP-2.0

RWPS-C101 / Raw Wastewater Submersible Pump 2.0 HP 120 @ 10' TDH

Flygt-CP-3085.183-2260

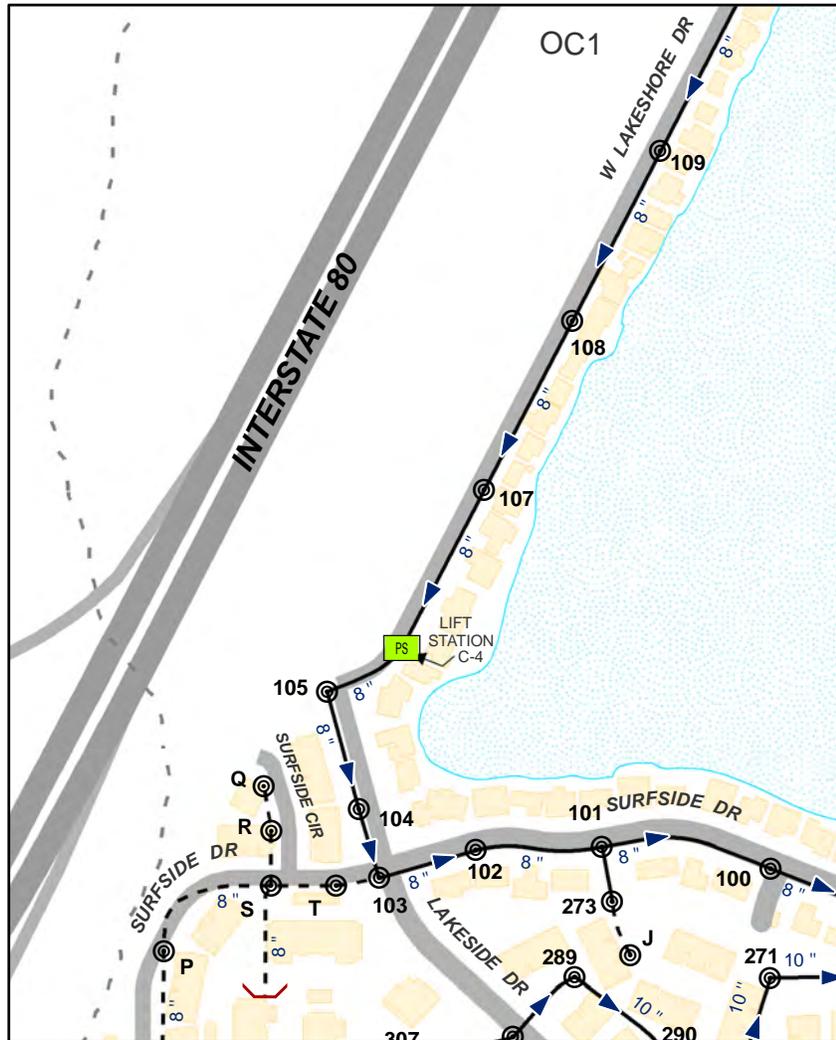
Volts / Amps- [240]/480-[6.6]/3.3

Radio Communication ID # RCE-C301

C03 Base to C02 Base/Relay CM9 – 2.4 GHz

<b>C03</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C301	Motor Control Center	MCC-C301 / ANNUAL PANEL CLEANING
PLC-C301	PLC Cabinet at C01	PLC-C301 / ANNUAL PANEL CLEANING
PLC-C301	PLC Cabinet at C01	PLC-C301 / QUARTERLY TELEMETERING ALARM VARIFICATION
RWPS-C301	Raw Wastewater Submersible Pump RWPS-2C	RWPS-C301 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-3	Sanitary Lift Station (412 W. Lakeshore)	C-3 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-3	Sanitary Lift Station (412 W. Lakeshore)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-3	Sanitary Lift Station (412 W. Lakeshore)	WEEKLY BUILDING & EQUIPMENT INSPECTION

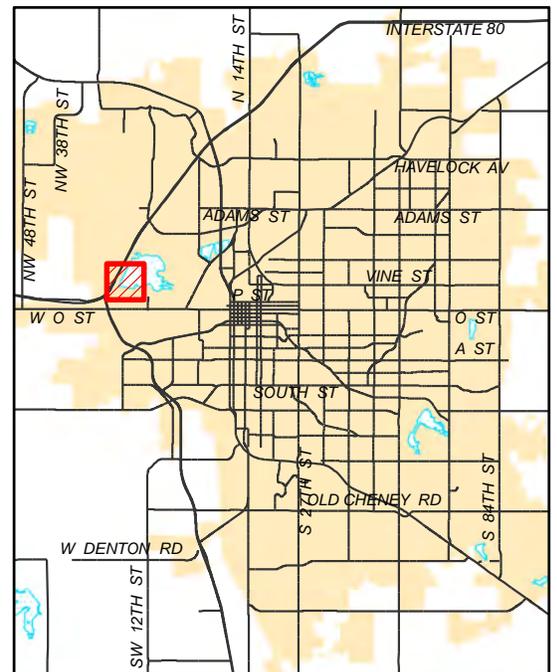
# Map Location for Lift Station C-4 52 West Lakeshore Drive



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-4

### Location: 52 West Lakeshore Drive



**Description:** Lift Station C-4 is a simplex pumping station located on the west side of Capital Beach Lake behind the east curb of West Lakeshore Drive. The station is scheduled to have the pump and check valve replaced in the fall of 2006. The access hatch, control panel and vault cover are relatively new.

**Deficiencies:** There have been no operating problems associated with this station.

**Drainage Basin:** Oak Creek

**Current Service Area:** 54 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Simplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-3C	Flygt Model CP-3085.181	150 gpm, 14 TDH	2/230/6.8
MCC-C401	Motor control Center		
MTF-3	Mercury Tilt Float Switch		
SG-3	Electrical Switch Gear		
TM-C401	Telemetry Panel (OT-49-692)		

**Standby Power:** None

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit OL-49-692

## Scheduled Maintenance and Information

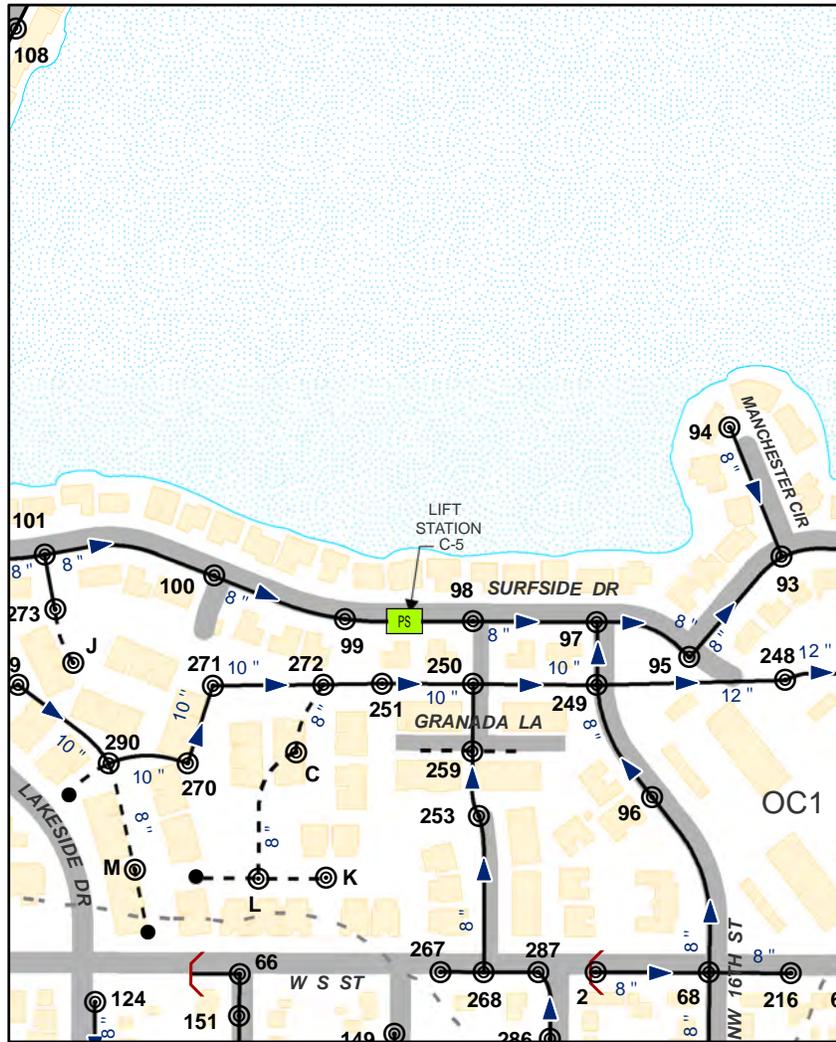
240V/3/60A Service    Connected HP-2.0

RWPS-C401 / Raw Wastewater Submersible Pump      2.0 HP 150 @ 14' TDH  
 Flygt-CP-3 085.181  
 Volts / Amps- [240]/480-[6.4]/3.2

Radio Communication ID# RCE-C401      C04 Base to C05 Base/Relay CM9 – 2.4 Ghz

<b>C04</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C401	Motor Control Center	MCC-C401 / ANNUAL PANEL CLEANING
PLC-C401	PLC Cabinet at C04	PLC-C401 / ANNUAL PANEL CLEANING
PLC-C401	PLC Cabinet at C04	PLC-C401 / QUARTERLY TELEMETERING ALARM VARIFICATION
RWPS-C401	Raw Wastewater Submersible Pump RWPS-3C	RWPS-C401 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-4	Sanitary Lift Station (52 W. Lakeshore)	C-4 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-4	Sanitary Lift Station (52 W. Lakeshore)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-4	Sanitary Lift Station (52 W. Lakeshore)	WEEKLY BUILDING & EQUIPMENT INSPECTION

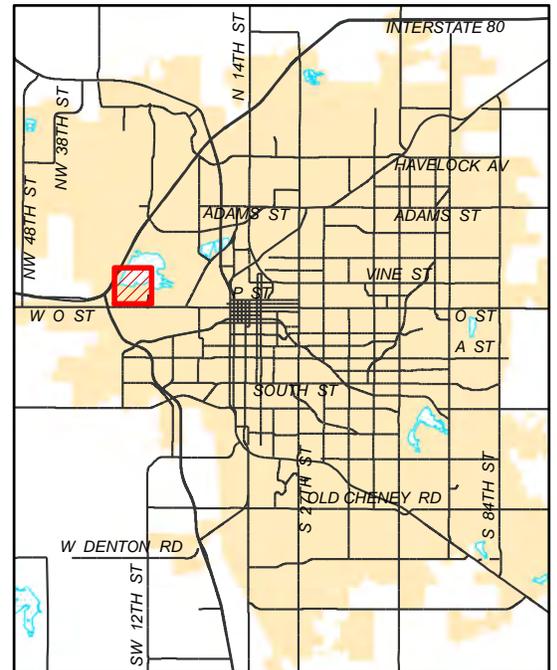
# Map Location for Lift Station C-5 1721 Surfside Drive



**Aerial**



**Overview Map**



**Information Fact Sheet for Lift Station C-5**  
**Location: 1721 Surfside Drive**



**Description:** Lift Station C-5 is a duplex pumping station located on the south curblane of Surfside Drive adjacent to Capital Beach Lake. It is the only pump station equipped with a retractable below-grade control panel which provides for a nice unobtrusive appearance. The station has provided reliable service.

**Deficiencies:** The station tends to get covered with snow and ice from street snowplowing during the winter months which can create extra work when station entry is required.

**Drainage Basin:** Oak Creek

**Current Service Area:** 70 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Duplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-C501	Flygt Model CP-3085.092-0007U	150 gpm, 15 TDH	3/230/8.7
RWPS-C502	Flygt Model CP-3085.092-0007U	150 gpm, 15 TDH	3/230/8.7
LC-5	Level Controller		
MCC-C501	Motor Control Center		
MTF-4	Mercury Tilt Float Switch		
SC-4	Electrical Switch Gear		
TM-C501	Telemetry Panel (OL-49-691)		

**Standby Power:** None

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, High Sump, Telemetry Circuit  
 OL-49-691

## Scheduled Maintenance and Information

240V/3/60A Service    Connected HP-6.0

RWPS-C501 / Raw Wastewater Submersible Pump            3.0 HP 150 GPM @ 15' TDH

Flygt-CP-3085.092-0007U

Volts / Amps- [240]/480-[8.7]/4.4

RWPS-C502 / Raw Wastewater Submersible Pump 3.0 HP 150 HP @ 15'

Flygt-CP-3085.092-0475

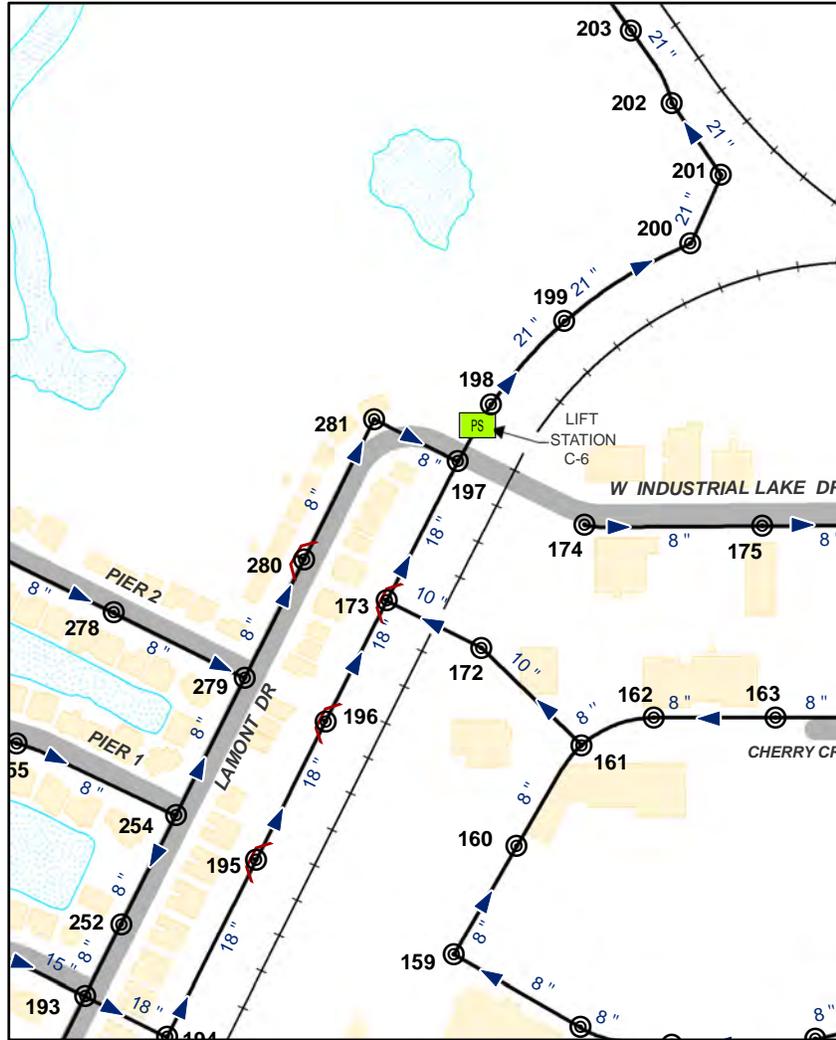
Volts / Amps- [240]/480-[8.7]/4.4

Radio Communication ID # RCE-C501,    C05 Base/Relay to C02 Base/Relay,

CM9 2.4GHz / SR9-900MHz

<b>C05</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C501	Motor Control Center	MCC-C501 / ANNUAL PANEL CLEANING
PLC-C501	PLC Cabinet at C05	PLC-C501 / ANNUAL PANEL CLEANING
PLC-C501	PLC Cabinet at C05	PLC-C501 / QUARTERLY TELEMETERING ALARM VARIFICATION
RWPS-C501	Raw Wastewater Submersible Pump	RWPS-C502 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C502	Raw Wastewater Submersible Pump	RWPS-C502 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-5	Sanitary Lift Station (1721 Surfside)	C-5 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-5	Sanitary Lift Station (1721 Surfside)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-5	Sanitary Lift Station (1721 Surfside)	WEEKLY BUILDING & EQUIPMENT INSPECTION

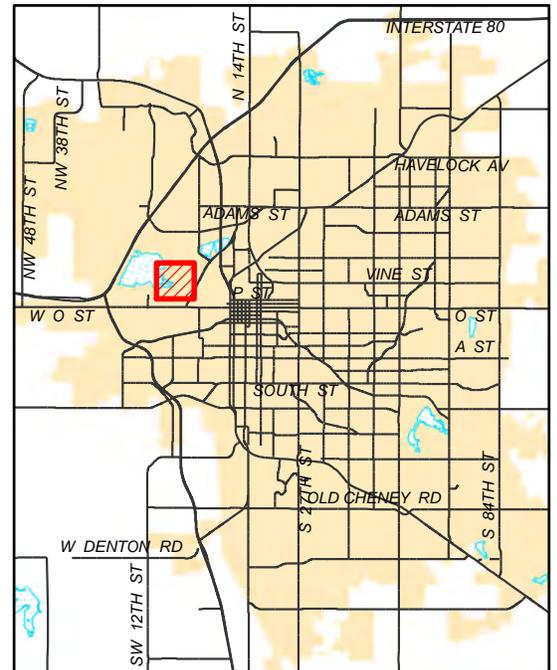
# Map Location for Lift Station C-6 550 West Industrial Lake Drive



**Aerial**



**Overview Map**



## **Information Fact Sheet for Lift Station C-6**

**Location: 550 West Industrial Lake Drive**



**Description:** Lift Station C-6 was constructed in 1978 and is located on the east side of Capital Beach Lake on West Industrial Lake Drive. The station is equipped with a separate drywell accommodating 2 dry pit submersible pumps. Standby generation is also provided. Lift Stations C-2, C-3, C-4, and C-5 are all located in a sequential manner around Capital Beach upstream of Lift Station C-6. The 8” forcemain from Station C-6, in turn, pumps directly to Lift Station C-7. The wastewater pumps are currently being replaced. The wetwell is equipped with a mixer.

**Deficiencies:** The main priority at the present time is to repair exterior deficiencies in the lift station structure such as masonry, exposed metals, and a large sinkhole on the north side of the building. There have been a few complaints associated with generator noise when in operation.

**Drainage Basin:** Oak Creek

**Current Service Area:** 300 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Wetwell/Drywell

**Equipment:**



## Auxiliary Power Generator

APG-C601

Olympian/Caterpillar D40P3

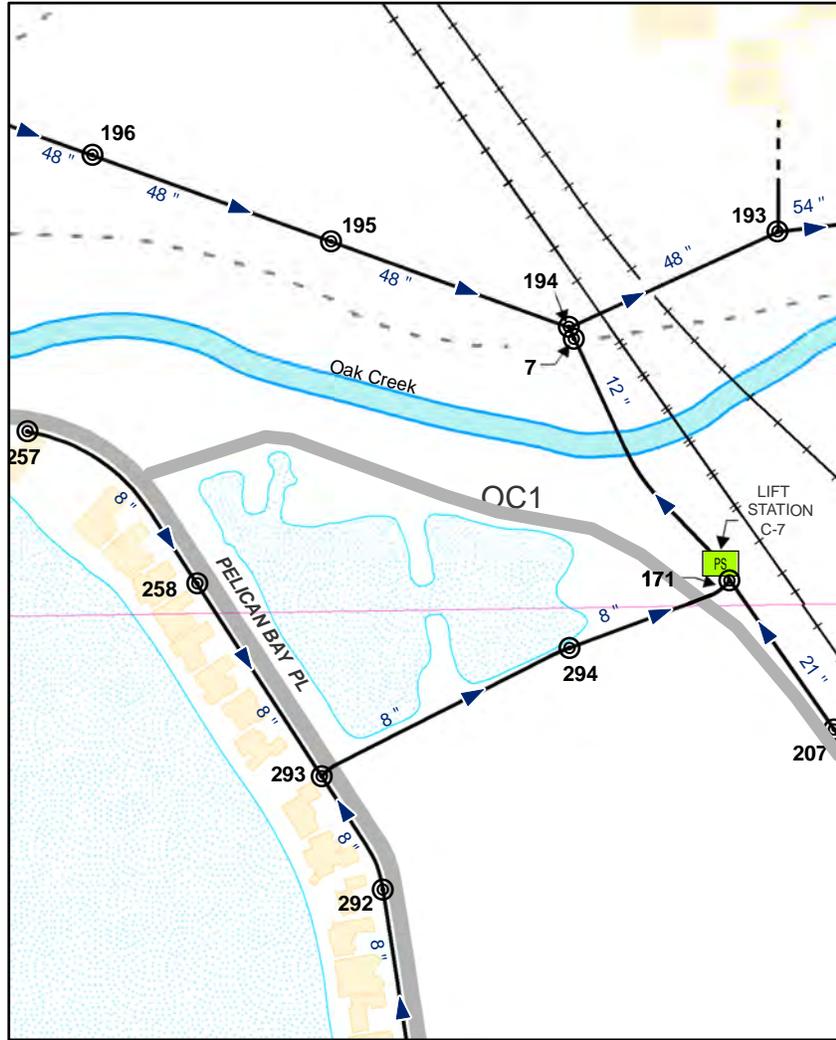
40 kW .8PF / 62.5kVA/[50]kVA / 277/[480]

Fuel – Diesel Fuel @ 3.8 Gal./Hr.

Tank Capacity – 300Gal. / 79 Hrs.

<b><u>C06</u></b>	<b>Scheduled Maintenance Tasks</b>	
APG-C601	Auxiliary Power Generator	APG-C601 / ANNUAL PANEL CLEANING
MCC-C601	Motor Control Center	MCC-C601 / ANNUAL PANEL CLEANING
PLC-C601	PLC Cabinet at C07	PLC-C601 / ANNUAL PANEL CLEANING
PLC-C601	PLC Cabinet at C07	PLC-C601 / QUARTERLY TELEMETERING ALARM VERIFICATION
APG-C601	Auxiliary Power Generator	APG-C601 / ANNUAL ENGINE MAINTENANCE
AHU-C601	Air Handling Unit	AHU-C601 / MONTHLY VENTILATOR MAINTENANCE
AHU-C602	Air Handling Unit	AHU-C602 / MONTHLY VENTILATOR MAINTENANCE
UH-C601	Unit Heater	UH-C601 / ANNUAL HEATER START UP
LC-C601	Level Controller	LC-C601 / MONTHLY BLOW DOWN & MAINTENANCE
RWP-C601	Raw Wastewater Pump (RWP-3C)	RWP-C601 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C601	Raw Wastewater Pump (RWP-3C)	RWP-601 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWP-C602	Raw Wastewater Pump	RWP-C601 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C602	Raw Wastewater Pump	RWP-601 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
SUP-C601	Sump Pump	SUP-C601 / ANNUAL SUMP PUMP MAINTENANCE/OIL CHANGE
SUPP-C601	Sump Pump Pit	SUPP-C601 / QUARTERLY PUMP & PIT INSPECTION
C-6A	Sanitary Lift Station (550 W. Industrial)	C-6A / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-6	Sanitary Lift Station (550 W. Industrial)	C-6 / STRUCTURE ROOF INSPECTION
C-6	Sanitary Lift Station (550 W. Industrial)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-6	Sanitary Lift Station (550 W. Industrial)	WEEKLY BUILDING & EQUIPMENT INSPECTION
FST-C601	Fuel Storage Tank (Diesel)	FST-C601 / DIESEL FUEL TANK INSPECTION & MAINTENANCE

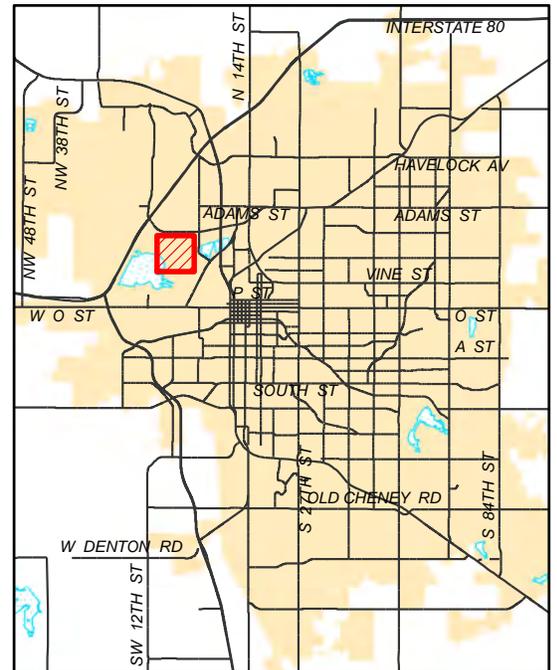
# Map Location for Lift Station C-7 1598 East Lakeshore Drive



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-7

**Location:** 1598 East Lakeshore Drive



**Description:** Lift Station C-7 (C-6 is an identical design) was built in the early 70's. Lift Station C-6 pumps directly to lift station C-7 which in turn pumps all flows across Oak Creek to the interceptor. This station is a duplex station with separate drywell and wetwell housing 2 dry pit submersible pumps rated at 350 gpm each. Standby power (50 KW) is provided at this station.

**Deficiencies:** The lift station is in good condition and performing satisfactorily. The wetwell was provided with a dividing wall. This dividing wall essentially reduces the operating volume of the lift station. It is recommended that this dividing wall be removed. There has been some concern about vagrants who camp or sleep outdoors near the station and possible vandalism that could occur.

**Drainage Basin:** Oak Creek

**Current Service Area:** 300 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Configuration:** Wetwell/Drywell

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWP-C701	Flygt Model CT 3102.180	350 gpm, 18 TDH	6.8/460/5
RWP-C702	Flygt Model CT 3102.180	350 gpm, 18 TDH	6.8/460/5
AHU-C701	Air Handling Unit (wetwell)		
AHU-C702	Air Handling Unit		
APG-C701	Auxiliary Power Generator	50kw (62.5KVA)	
ETS-2	Electric Transfer Switch		
FS-2	Fuel Storage Tank	300 gal. (diesel)	
HWH-2C	Hot Water Heater		
LC-7	Level Controller		
MCC-C701	Motor Control Center		
MXR-C701	Mechanical Mixer		
PPMS-2	Power Panel Metering Station		
SG-6	Electrical Switch Gear		
SUP-C701	Sump Pump		
TF-C701	Tube Fan		
TM-C701	Telemetry Panel (OL-49-695)		
UH-C701	Unit Heater		
UH-C702	Heating Ventilating Unit		

**Standby Power:** Yes, EquipID APG-C701, 50KW, Olympian Model: D40P-40kw/50kw, Caterpillar Diesel, Fuel Tank 300 gal.

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, High Sump, Alternate Power, Telemetry Circuit OL-49-695

**Planned Capital Improvements:** No capital improvements are currently planned.

### **Scheduled Maintenance and Information**

480V/3/225A Service Connected HP-6.8

RWP-C701 / Raw Wastewater Pump    3.7 HP HP 350 @ 18' TDH  
 Flygt-NT-3102.181-1725  
 Volts / Amps- 240/[480]-10/[5]

RWP-C702 / Raw Wastewater Pump    3.4 HP HP 350 @ 18' TDH  
 Flygt-NT-3102.181  
 Volts / Amps- 240/[480]-10/[5]

Radio Communication ID # RCE-C701

C07 Base to Airpark Tower Base CM9 – 9.5GHz.

## Auxiliary Power Generator

APG-C701

Olympian/Caterpillar D40P3

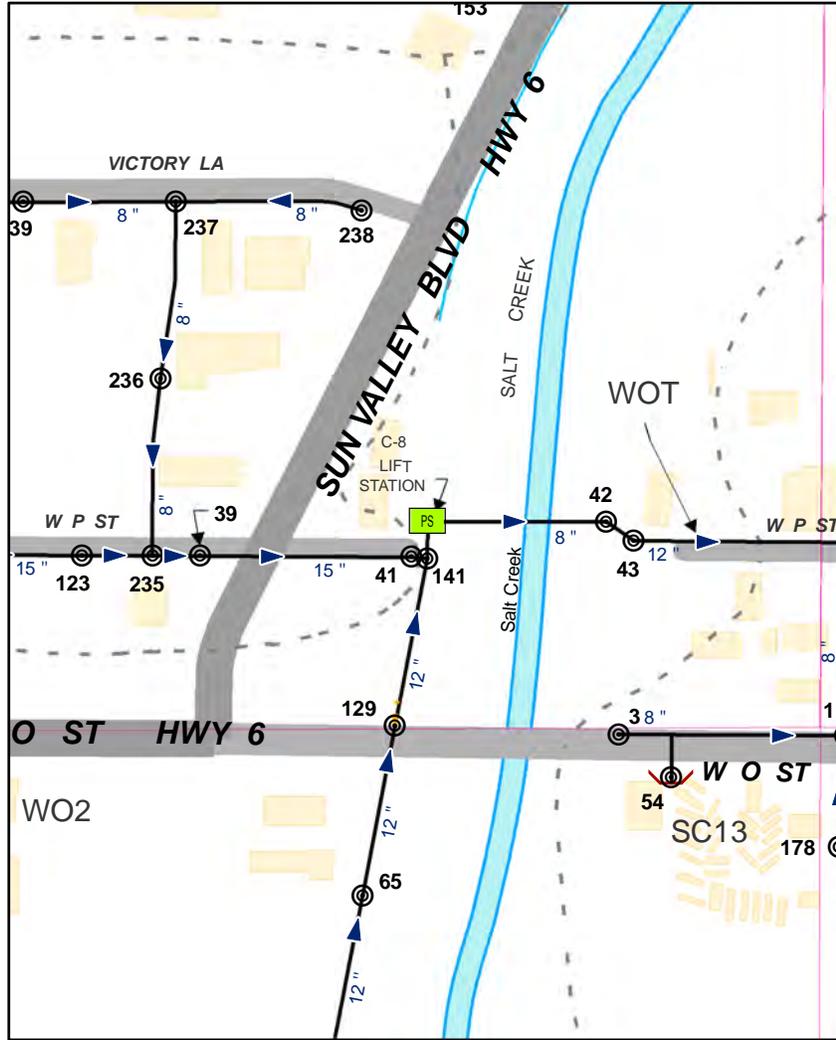
40 kW .8PF / 62.5kVA/[50]kVA / 277/[480]

Fuel – Diesel Fuel @ 3.8 Gal./Hr.

Tank Capacity – 300Gal. / 79 Hrs.

<b><u>C07</u></b>	<b>Scheduled Maintenance Tasks</b>	
APG-C701	Auxiliary Power Generator	APG-C701 / ANNUAL PANEL CLEANING
MCC-C701	Motor Control Center	MCC-C701 / ANNUAL PANEL CLEANING
PLC-C701	PLC Cabinet at C07	PLC-C701 / ANNUAL PANEL CLEANING
PLC-C701	PLC Cabinet at C07	PLC-C701 / QUARTERLY TELEMETERING ALARM VERIFICATION
APG-C701	Auxiliary Power Generator	APG-C701 / ANNUAL ENGINE MAINTENANCE
AHU-C701	Air Handling Unit	AHU-C701 / MONTHLY VENTILATOR MAINTENANCE
AHU-C702	Air Handling Unit	AHU-C701 / MONTHLY VENTILATOR MAINTENANCE
UH-C702	Heating Ventilating Unit	UH-C701 / ANNUAL HEATER START UP
UH-C702	Heating Ventilating Unit	UH-C702 / ANNUAL HEATER START UP
LC-C701	Level Controller	LC-C701 / MONTHLY BLOW DOWN & MAINTENANCE
MXR-C701	Mechanical Mixer (MM-2C)	MXR-C701 / SEMI-ANNUAL MIXER MAINTENANCE
RWP-C701	Raw Wastewater Pump	RWP-C701 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C701	Raw Wastewater Pump	RWP-C701 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWP-C702	Raw Wastewater Pump (RWP-6C)	RWP-C702 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C702	Raw Wastewater Pump (RWP-6C)	RWP-C702 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
SUP-C701	Sump Pump	SUP-C701 / ANNUAL SUMP PUMP MAINTENANCE/OIL CHANGE
SUPP-C701	Sump Pump Pit	SUPP-C701 / QUARTERLY PUMP & PIT INSPECTION
C-7A	Station Wetwell	C-7A / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-7	Sanitary Lift Station (1598 E. Lakeshore)	C-7A / STRUCTURE ROOF INSPECTION
C-7	Sanitary Lift Station (1598 E. Lakeshore)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-7	Sanitary Lift Station (1598 E. Lakeshore)	WEEKLY BUILDING & EQUIPMENT INPSECTION
FST-C701	Fuel Storage Tank (Diesel)	FST-C701 / DIESEL FUEL TANK INSPECTION & MAINTENANCE

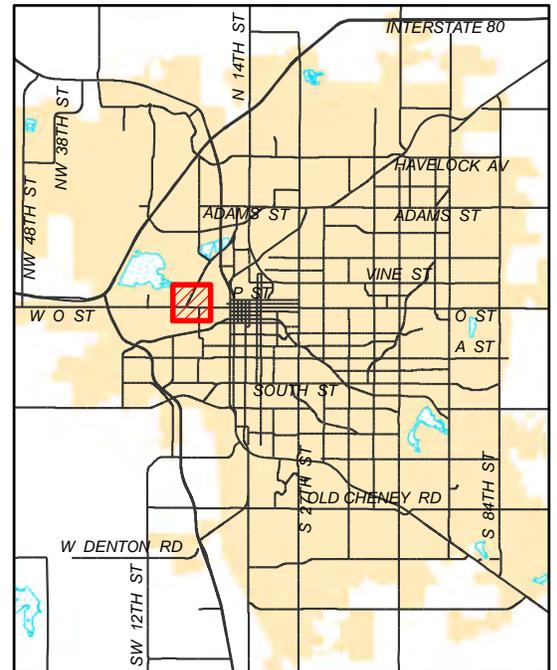
# Map Location for Lift Station C-8 Sun Valley Blvd & West P Street



**Aerial**



**Overview Map**



## **Information Fact Sheet for Lift Station C-8**

**Location: Sun Valley Blvd & West “P” Street**



**Description:** Lift Station C-8 was built in 1964 and is located on the west bank of Salt Creek, just north of west “O” Street. It serves the West “O” street and Burlington Northern Railroad Yards. The station has a separate drywell housing 2 pumps. The original wetwell was too small and a larger wetwell was installed using circular pre-cast concrete risers. Much of the discharge piping in the drywell has been replaced with reinforced fiberglass pipe. The pumps are suction-lift pumps. Mechanically, the station is in good condition. In 199x, the 8” discharge force main across Salt Creek was reconstructed due to corrosion of the original pipe. A standby power generator was installed in 1997.

**Deficiencies:** The lift station is too small, both structurally and equipment wise. There is only room for two pumps and in general the floor plan is so small that future expansion is not possible. There is high potential for growth in the service area and ultimately this facility will not meet the needs for providing reliable service. The station is experiencing long run pump times even during dry diurnal flow periods. At times, the waste characteristics involve petroleum grease, petroleum vapors, plastic pop bottles, and sticks. This wastewater often plugs the suction lift pipes to the pumps. Due to the potential for growth in the West “O” street basin and the station’s relatively small size, this station will not be able to provide reliable service.

**Drainage Basin:** West “O” Street

**Current Service Area:** 1,042 acres

**Avg Daily Flow gpm/cfs/acre:** 264 gpm, 0.00132 cfs/acre

**Peak Flow gpm/cfs/acre :** 944 gpm, 0.00472 cfs/acre

**Configuration:** Wetwell/Drywell

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWP-7C	Gorman Rupp Model T6A3S-B	900 gpm, 35 TDH	20/230/54
RWP-8C	Gorman Rupp Model T6A3S-B	900 gpm, 35 TDH	20/230/54
APG-C801	Auxiliary Power Unit	100KW/125KVA	240V
LC-8	Level Controller		
MCC-C801	Motor Control Center		
MCC-C802	Motor Control Center		
PV-2	Power Ventilator		
SG-7	Electrical Switch Gear		
SUP-C801	Sump Pump		
TM-C801	Telemetry Panel (OT-49-666)		
UH-C801	Unit Heater		

**Standby Power:** Yes, EquipID APG-C801, 100 KW, Cummins/Onan 100ENBA Generator Set, Natural Gas, fuel rate 1,482 CF/Hr.

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, High Sump, Alternate Power, Telemetry Circuit OL-49-666

**Planned Capital Improvements:** There is some discussion and planning efforts to consider construction of a new lift station which would serve both the Middle Creek and West "O" Street drainage basins. The project is identified in the Capital Improvements Program in later years. As the service area in west Lincoln increases, it may be more economical to serve this area with one larger station. This would be located in what is now the Burlington RR Yards.

## Scheduled Maintenance and Information

240V/3/200A Service Connected HP-40

RWP-C801 / Raw Wastewater Pump 20 HP 900 @ 35' TDH  
 Gorman-Rupp-T6A3-A  
 Volts / Amps- [240]/480-[54]/27

RWP-C802 / Raw Wastewater Pump 20 HP 900 @ 35' TDH  
 Gorman-Rupp-T6A3-A  
 Volts / Amps- [240]/480-[54]/27

Radio Communication ID # RCE-C801

C08 Base to 531 Westgate Base CM9 - 5GHz.

### Auxiliary Power Generator

APG-C801

Olympian/Oman 100ENBA

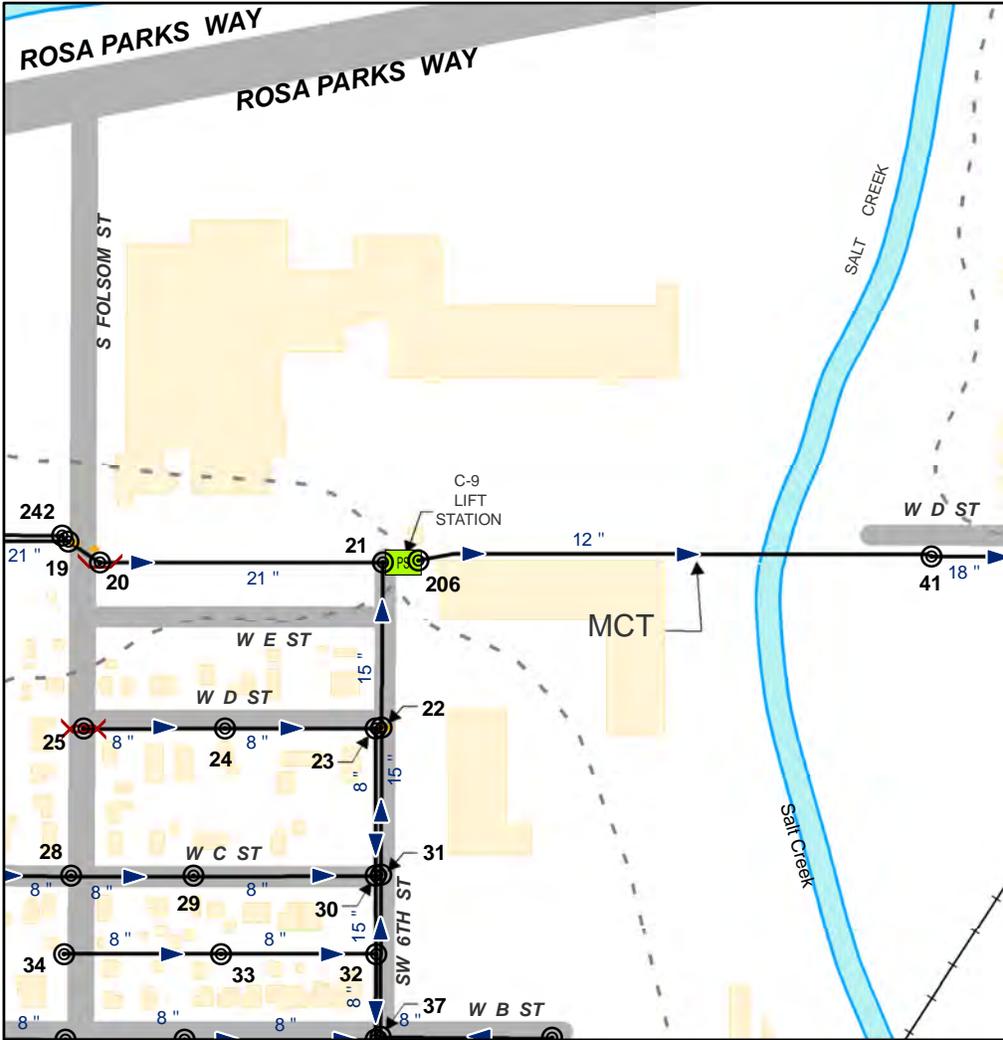
100 kW .8PF /125kVA/[100]kVA / 120/[240]

Fuel – Natural Gas @ 1482 CuFt./Hr.

Tank Capacity

<b>C08</b>	<b>Scheduled Maintenance Tasks</b>	
APG-C801	Auxiliary Power Generator	APG-C801 / ANNUAL PANEL CLEANING
MCC-C801	Motor Control Center	MCC-C801 / ANNUAL PANEL CLEANING
MCC-C802	Motor Control Center	MCC-C802 / ANNUAL PANEL CLEANING
PLC-C801	PLC Cabinet at C08	PLC-C801 / ANNUAL PANEL CLEANING
PLC-C801	PLC Cabinet at C08	PLC-C801 / QUARTERLY TELEMETERING ALARM VERIFICATION
APG-C801	Auxiliary Power Generator	APG-C801 / ANNUAL ENGINE MAINTENANCE
PV-C801	Power Ventilator	PV-C801 / MONTHLY VENTILATOR MAINTENANCE
UH-C801	Unit Heater (E)	UH-C801 / ANNUAL HEATER START UP
LC-C801	Level Controller	LC-C801 / MONTHLY BLOW DOWN & MAINTENANCE
RWP-C801MO	Raw Wastewater Pump Motor	RWP-C801MO / ANNUAL MOTOR INSPECTION AND LUBE
RWP-C802MO	Raw Wastewater Pump Motor	RWP-C802MO / ANNUAL MOTOR INSPECTION AND LUBE
RWP-C801	Raw Wastewater Pump (RWP-7C)	RWP-C801 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C801	Raw Wastewater Pump (RWP-7C)	RWP-C801 / ANNUAL PUMP IMPELLER CHECK & INSPECTION
RWP-C802	Raw Wastewater Pump (RWP-8C)	RWP-C802 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C802	Raw Wastewater Pump (RWP-8C)	RWP-C802 / ANNUAL PUMP IMPELLER CHECK & INSPECTION
SUP-C801	Sump Pump	SUP-C801 / ANNUAL SUMP PUMP MAINTENANCE/OIL CHANGE
SUPP-C801	Sump Pump Pit	SUPP-C801 / QUARTERLY PUMP & PIT INSPECTION
C-8A	Station Wetwell	C-8A / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-8	Sanitary Lift Station (W.P. & Salt Creek)	C-8 / STRUCTURE ROOF INSPECTION
C-8	Sanitary Lift Station (W.P. & Salt Creek)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-8	Sanitary Lift Station (W.P. & Salt Creek)	WEEKLY BUILDING & EQUIPMENT INSPECTION

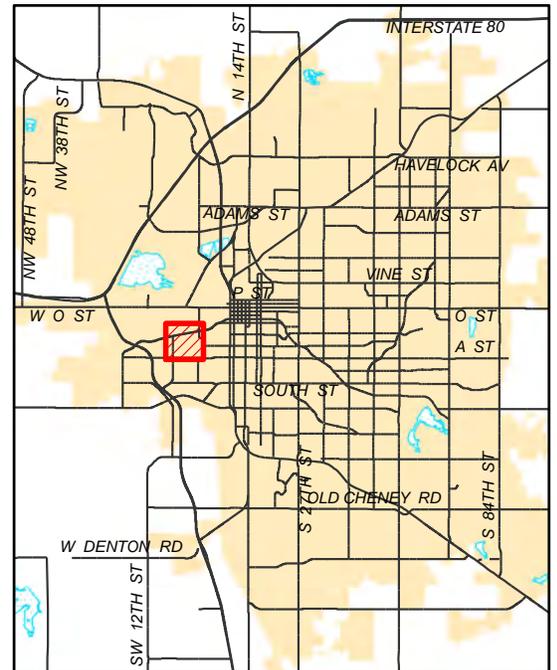
# Map Location for Lift Station C-9 West E Street & SW 6th Street



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-9

Location: West "E" Street & SW 6<sup>th</sup> Street



**Description:** Lift Station C-9 was built in 1964 and is located on the west bank of Salt Creek. The station has a separate drywell housing 3 pumps. Much of the discharge piping in the drywell has been replaced with reinforced fiberglass pipe. The HVAC system, electrical control wiring, and valves have also been replaced. The original 150 KW standby diesel driven generator housed interior to the building has been replaced with a 40 KW unit in 1998. Mechanically, the station is in good condition. Staff are currently in the process of replacing the last remaining Fairbanks model pump with a Flygt model CT. The 12" discharge force main (approx. xxx L.F.) which crosses Salt Creek, was reconstructed in 1990's using HDPE pipe material.

**Deficiencies:** The predominant operating problem has been clogging of the suction piping on the pumps. The plugging problems have been attributed to excessive debris discharged into the collection system from the NE. State Correctional Center on West Pioneers Ave. To help prevent pump plugging from debris, a grinder system is scheduled to be installed later this year (2006). This project will also involve restoration of concrete walls (hydrogen sulfide corrosion) in the station wetwell. This station is too small for the future needs of the drainage basin as development continues to move west along the West "A" Street corridor. There is little room in the station for installing higher capacity pumps, valves, and piping. Installation of variable frequency drives and a larger wetwell is needed.

**Drainage Basin:** Middle Creek

**Current Service Area:** 1,389 acres

**Avg Daily Flow gpm/cfs/acre:** 646 gpm, 0.00119 cfs/acre

**Peak Flow gpm/cfs/acre :** 3,229 gpm, 0.00594 cfs/acre

**Configuration:** Wetwell/Drywell

**Equipment:**



# Auxiliary Power Generator

APG-C901

Olympian/Oman CD040

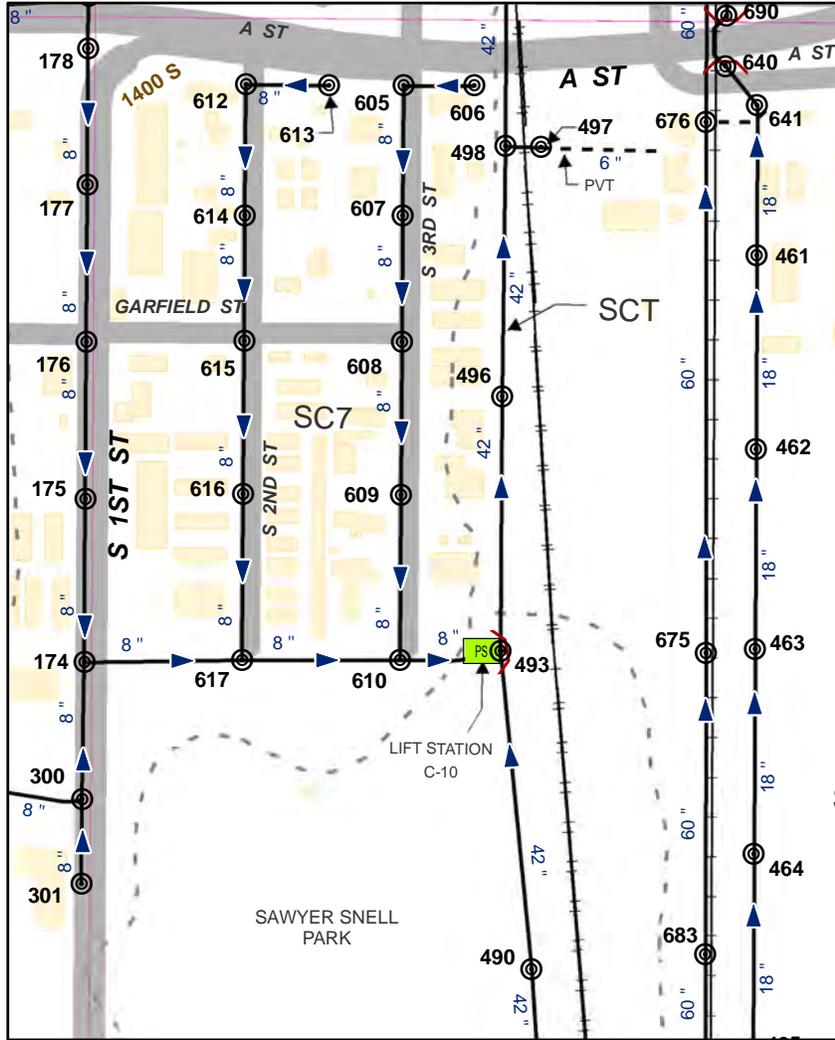
40 kW / 75kVA/[50]kVA / 120/[240]

Fuel – Diesel Fuel @ 3.6 Gal./Hr.

Tank Capacity – 125Gal. / 34.8 Hrs.

<b>C09</b>	<b>Scheduled Maintenance Tasks</b>	
AC-C901	Air Compressor Unit	AC-C901 / ANNUAL AIR COMPRESSOR OIL CHANGE / INSPECTION/LS
APG-C901	Auxiliary Power Generator	APG-C901 / ANNUAL PANEL CLEANING
GNDR-C901EL	C-9A Channel Monster Control Panel	GNDR-C901EL / ANNUAL PANEL CLEANING
MCC-C901	Motor Control Center	MCC-C901 / ANNUAL PANEL CLEANING
PLC-C901	PLC Cabinet and PLC	PLC-C901 / ANNUAL PLC CLEANING & MAINTENANCE
PLC-C903	PLC Cabinet at C09	PLC / QUARTERLY TELEMETERING ALARM VERIFICATION
APG-C901	Auxiliary Power Generator	APG-C901 / ANNUAL ENGINE MAINTENANCE
PRV-C901	Power Roof Ventilator	PRV-C901 / MONTHLY VENTILATOR MAINTENANCE
PRV-C902	Power Roof Ventilator	PRV-C902 / MONTHLY VENTILATOR MAINTENANCE
UH-C901	Unit Heater (E)	UH-C901 / ANNUAL ENGINE MAINTENANCE
-C901	Level Controller	LC-C901 / MONTHLY BLOW DOWN & MAINTENANCE
FIT-C901	Lift Station Flow Meter	LSFM-C901 / LIFT STATION ANNUAL FLOW METER CALIBRATION
RWP-C901	Raw Wastewater Pump (RWP-9C)	RWP-C901 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C901	Raw Wastewater Pump (RWP-9C)	RWP-C901 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWP-C902	Raw Wastewater Pump (RWP-10C)	RWP-C902 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C902	Raw Wastewater Pump (RWP-10C)	RWP-C902 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWP-C903	Raw Wastewater Pump (RWP-13C)	RWP-C903 / SEMI-ANNUAL PUMP INSPECTION & MAINTENANCE
RWP-C903	Raw Wastewater Pump (RWP-13C)	RWP-C903 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
SUP-C901	Sump Pump	SUP-C901 / ANNUAL SUMP PUMP MAINTENANCE/OIL CHANGE
SUPP-C901	Sump Pump Pit	SUPP-C901 / QUARTERLY PUMP & PIT INSPECTION
GNDR-C901	C-9A Wetwell Channel Monster Grinder	GNDR-C901 / QUARTERLY MAINTENANCE
C-9A	Station Wetwell	C-9A / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-9	Sanitary Lift Station (400 W. "D")	C-9 / STRUCTURE ROOF INSPECTION
C-9	Sanitary Lift Station (400 W. "D")	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
PWBFP-C901	Backflow Preventer (1")	PWBFP-C901 / ANNUAL BACK FLOW PREVENTER MAINTENANCE
C-9	Sanitary Lift Station (400 W. "D")	WEEKLY BUILDING & EQUIPMENT INSPECTION
FST-C901	Fuel Storage Tank (Diesel)	FST-C901 / DIESEL FUEL TANK INSPECTION & MAINTENANCE
ARV-C901	Air Relief Valve for Discharge Manifold	ARV-C901 / SEMI ANNUAL CLEAN & INSPECTION

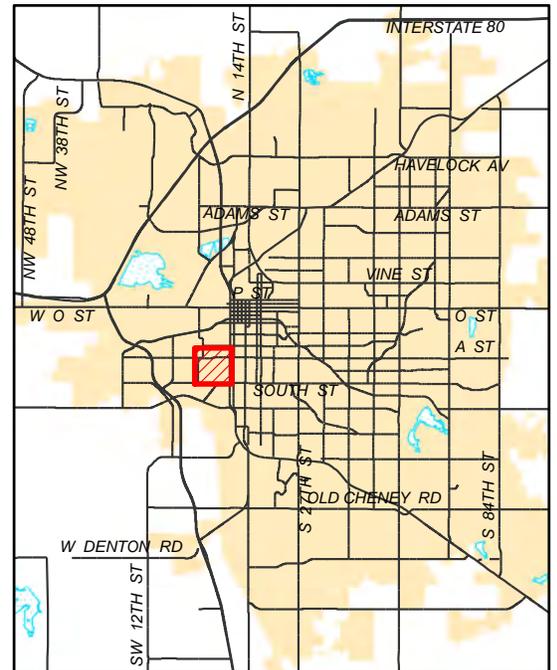
# Map Location for Lift Station C-10 S. 3rd & Rose Street



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-10

Location: 3<sup>rd</sup> & Rose Street



**Description:** Lift Station C-10 is a duplex pumping station located just south of 3<sup>rd</sup> & “A” Street and serves several square block area of largely industrial/commercial buildings. The wastewater pumps have recently been replaced and the control panel is scheduled to be replaced soon.

**Deficiencies:** No significant deficiencies have been identified.

**Drainage Basin:** Salt Creek

**Current Service Area:** 43 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Duplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-4C	Flygt Model CP-3085.180	170 gpm, 20 TDH	3/230/9.6
RWPS-5C	Flygt Model CP-3085.180	170 gpm, 20 TDH	3/230/9.6
MCC-C1001	Motor Control Center		
MTF-5	Mercury Tilt Float Switch		
SG-9	Electrical Switch Gear		
TM-C1001	Telemetry Panel (OT-49-667)		

**Standby Power:** No

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit  
OL-49-667

## Scheduled Maintenance and Information

240V/3/20A Service    Connected HP-4.4

RWPS-C1001 / Raw Wastewater Submersible Pump 2.2 HP 170 @ 20' TDH

Flygt-CP-3085.181

Volts / Amps- [240]/480-[9.6]/4.8

RWPS-C1002 / Raw Wastewater Submersible Pump 2.2 HP 170 @ 20' TDH

Flygt-CP-3085.181

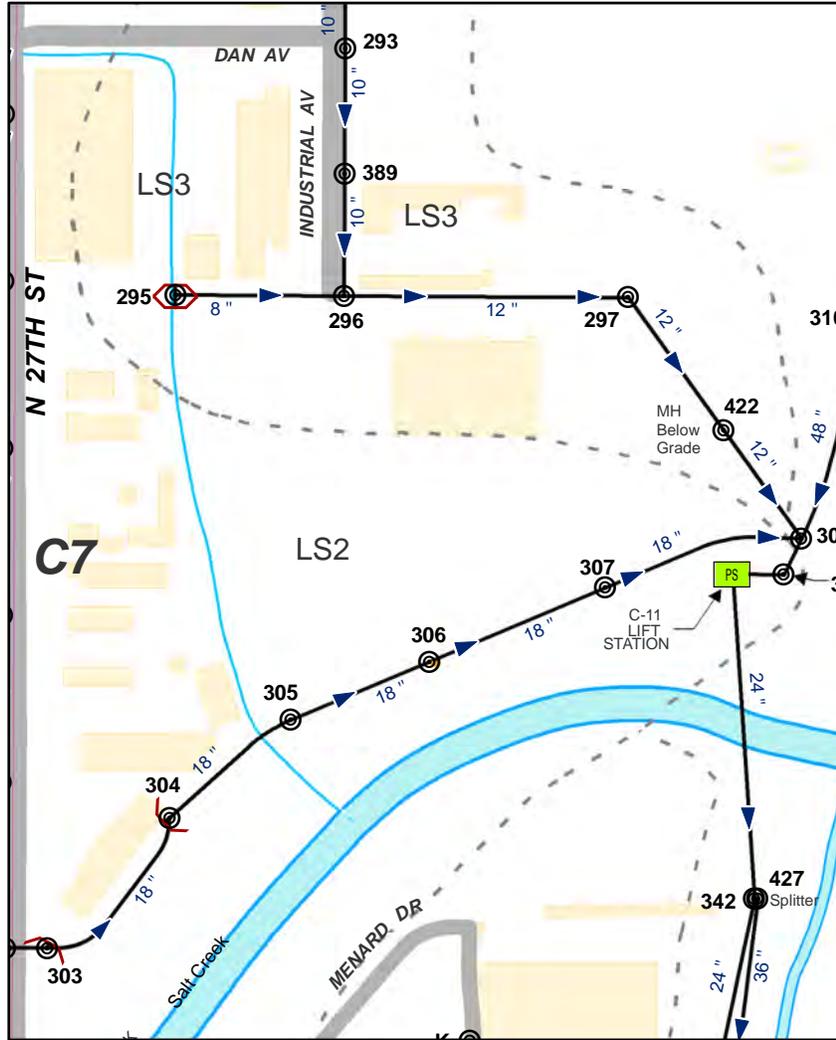
Volts / Amps- [240]/480-[9.6]/4.8

Radio Communication ID # RCE-C1001, C10 Base to South Street Fire Station, to IS Radio CM9 -2.4GHz

(Fire maintains patch cord to IS radio)

<b><u>C01</u></b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C1001	Motor Control Center	MCC-C1001 / ANNUAL PANEL CLEANING
PLC-C1001	PLC Cabinet and PLC	PLC-C1001 / ANNUAL PLC CLEANING & MAINTENANCE
PLC-C1001	PLC Cabinet at C10	PLC-C1001 / QUARTERLY TELEMETERING ALARM VERIFICATION
LC-C1001	Level Controller	LC-C1001 / MONTHLY BLOW DOWN & MAINTENANCE
RWPS-C1001	Raw Wastewater Submersible Pump RWPS-4C	RWPS-C1001 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C1002	Raw Wastewater Submersible Pump RWPS-5C	RWPS-C1002 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-10	Sanitary Lift Station (3rd & Rose)	C-10 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-10	Sanitary Lift Station (3rd & Rose)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-10	Sanitary Lift Station (3rd & Rose)	WEEKLY BUILDING & EQUIPMENT INSPECTION

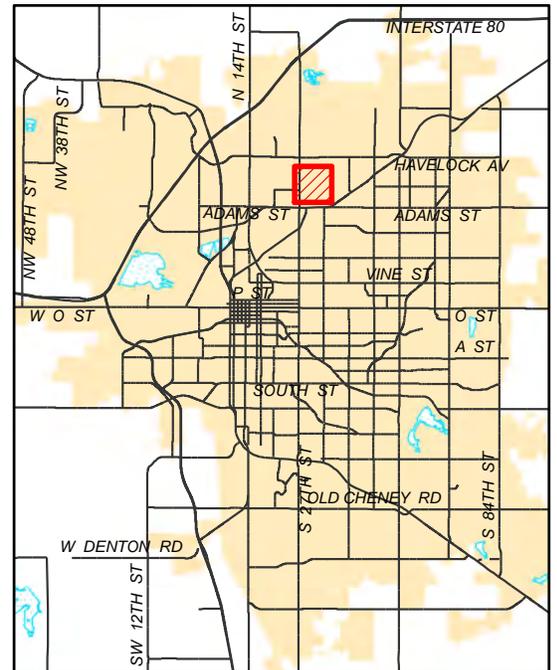
# Map Location for Lift Station C-11 3700 N. 31st Street & Salt Creek



**Aerial**



**Overview Map**



**Information Fact Sheet for Lift Station C-11**  
**Location: 3700 North 31st Street & Salt Creek**



**Description:** Lift station C-11 was constructed in 1997 and is the largest remote wastewater pumping station. The station has a separate drywell housing 2 pumps with provisions to add two additional pumps. Mechanically the station is in good condition. A 200 kw generator and automatic transfer switch were installed in 1997 for emergency standby power. Recently a new flow metering structure and 36” outlet sanitary sewer have been constructed to accommodate increased flows and provide capacity for the future. Currently a project is underway to replace the existing pumps with VFD driven, dry pit submersible pumps, which will increase capacity. Additionally, motor control center equipment, pump control, and HVAC systems are being replaced. The service area for this station is rapidly growing to the north and the potential for additional growth is high.

**Deficiencies:** The wetwell has experienced accumulation of grease and debris. A wetwell mixer needs to be installed in the near future.

**Drainage Basin:** Little Salt Creek

**Current Service Area:** 2,900 acres

**Avg Daily Flow gpm/cfs/acre:** gpm, 0.00119 cfs/acre

**Peak Flow gpm/cfs/acre :** gpm, 0.00594 cfs/acre

**Configuration:** Wetwell/Drywell

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWP-11C	Aurora Model 75-8761-2	2500 gpm, 19 TDH	25/460/47.4
RWP-12C	Fairbanks Model 5-B5433	2500 gpm, 19 TDH	25/460/47.4
AC-C1101	Air Compressor Unit		
AC-C1102	Air Compressor Unit		
APG-C1101	Auxiliary Power Unit	200KW/250KVA	480V
AT-1C	Air Compressor Tank		
ELT-1	Emergency Line Transfer		
ETS-4	Electric Transfer Switch		
FS-4	Fuel Storage Tank (diesel)	200 gal.	
HVU-C1101	Heating Ventilating Unit		
LC-11	Level Controller		
LSFM-C1101	Flow Meter		
LSTC-C1101	Traveling Crane		
MCC-C1101	Motor Control Center		
MXR-C1101	Mechanical Mixer		
PRV-3C	Power Roof Ventilator		
PRV-4C	Power Roof Ventilator		
PRV-5C	Power Roof Ventilator		
PRV-6C	Power Roof Ventilator		
PRV-7C	Power Roof Ventilator		
SG-C1101	Sluice Gate		
SG-C1102	Sluice Gate		
SWGR-C1101	Electrical Switch Gear		
SUP-C1101	Sump Pump		
SUP-C1102	Sump Pump		
TM-C1101	Telemetry Panel (OT-49-697)		

**Standby Power:** Yes, EquipID APG-C1101, 200KW, Cummins/Onan Model: 200DGFC, Diesel, Fuel Tank 200 gal.

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, High Sump, Alternate Power, Telemetry Circuit OL-49-697

**Planned Capital Improvements:** Following the installation of the new dry-pit submersible pumps and controls, the lift station will be adequately upgraded for the foreseeable future.

### **Scheduled Maintenance and Information**

480V/3/400A Service Connected HP-120.0

RWP-C1101 / Raw Waste Pump Flygt 3202 60 HP 3000 @ 19' TDH  
 Flygt-CP-3085.182  
 Volts / Amps- [240]/480-[7.4]/3.7

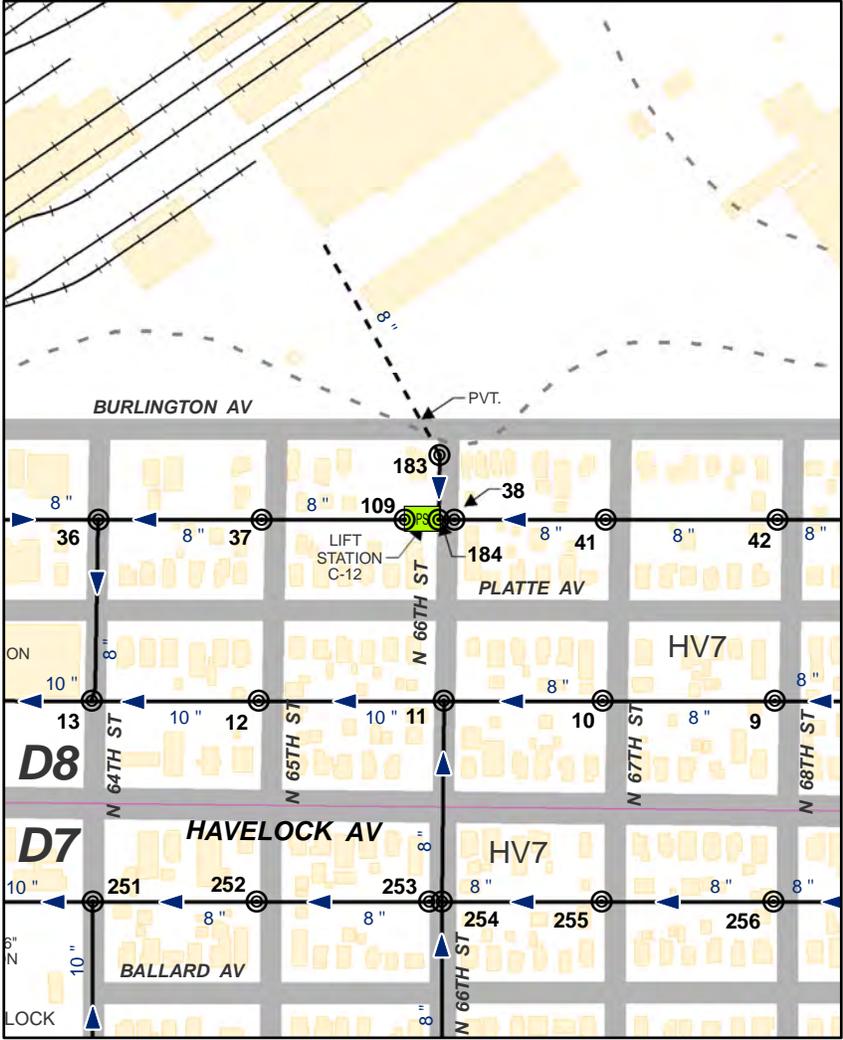
RWP-C1103 / Raw Waste Pump Flygt 3202 60 HP 3000 @ 19' TDH  
 Flygt-CP-3085.182  
 Volts / Amps- [240]/480-[7.4]/3.7

Radio Communication ID # RCE-C1101

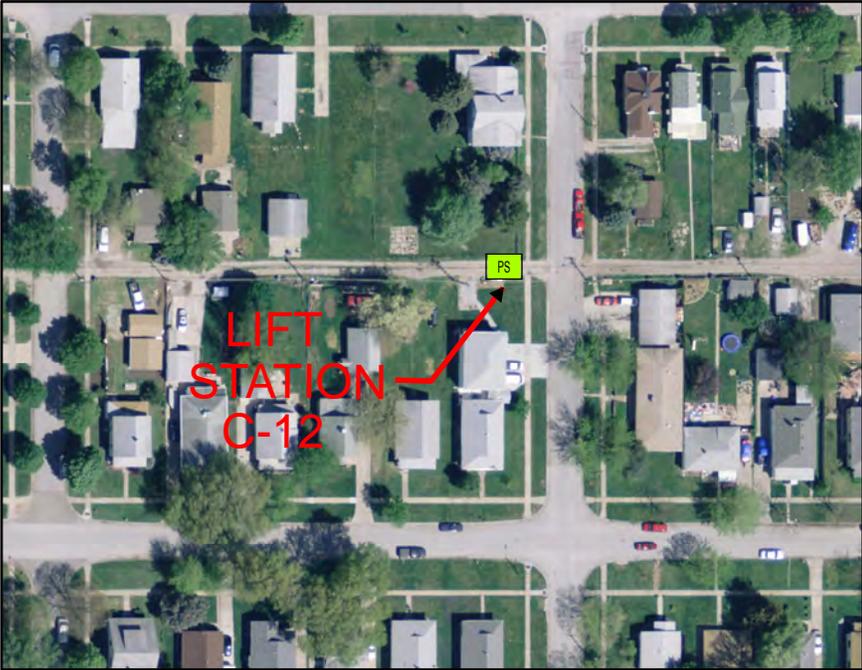
C11 Base to Kingston Drive Base CM9 - 5GHz.

<u>C11</u>	Scheduled Maintenance Tasks	
AC-C1101	Air Compressor Unit	AC-C1101 / ANNUAL AIR COMPRESSOR OIL CHANGE
AC-C1102	Air Compressor Unit	AC-C1102 / ANNUAL AIR COMPRESSOR OIL CHANGE
OHC-C1101	Traveling Crane	LSTC-C1101 / ANNUAL MAINTENANCE FOR CRANE
APG-C1101	Auxiliary Power Generator	APG-C1101 / ANNUAL PANEL CLEANING
HCU-C1101	Harmonic Correction Unit	HCU-C1101 / ANNUAL PANEL CLEANING
MCC-C1101	Motor Control Center	MCC-C1101 / ANNUAL PLC CLEANING & MAINTENANCE
PLC-C1101	PLC Cabinet and PLC	PLC-C1101 / ANNUAL PLC CLEANING & MAINTENANCE
PLC-C1101	PLC Cabinet at C11	PLC-C1101 / QUARTERLY TELEMETERING ALARM V
RWP-C1101DR	Raw Waste Pump-1 VFD	RWP-C1101DR/MONTHLY VFD CABINET FILTER CLE
RWP-C1103DR	Raw Waste Pump-3 VFD	RWP-C1103DR/MONTHLY VFD CABINET FILTER CLE
UPS-C1101	UPS battery back-up SCADA PLC	UPS-C1101 / REPLACE BACK-UP BATTERIES
APG-C1101	Auxiliary Power Generator	APG-C1101 / ANNUAL ENGINE MAINTENANCE
AMU-C1101	Air Makeup Unit (storage room)	AMU-C1101 / MONTHLY FILTER CHANGE MAINTENANCE
HVU-C1101	Heating Ventilating Unit	HVU-C1101 / MONTHLY FILTER CHANGE MAINTENANCE
HVU-C1101	Heating Ventilating Unit	HVU-C1101 / ANNUAL HEATER START UP
PRV-C1101	Power Roof Ventilator (OP Floor)	PRV-C1101 / MONTHLY FILTER CHANGE MAINTENANCE
PRV-C1101	Power Roof Ventilator (OP Floor)	PRV-C1101 / ANNUAL VENTILATOR MAINTENANCE
PRV-C1102	Power Roof Ventilator (OP Floor)	PRV-C1102 / MONTHLY VENTILATOR MAINTENANCE
PRV-C1102	Power Roof Ventilator (OP Floor)	PRV-C1102 / ANNUAL VENTILATOR MAINTENANCE
PRV-C1103	Power Roof Ventilator (Wetwell)	PRV-C1103 / MONTHLY VENTILATOR MAINTENANCE
PRV-C1103	Power Roof Ventilator (Wetwell)	PRV-C1103 / ANNUAL VENTILATOR MAINTENANCE
PRV-C1104	Power Roof Ventilator (West)	PRV-C1104 / MONTHLY VENTILATOR MAINTENANCE
PRV-C1104	Power Roof Ventilator (West)	PRV-C1104 / ANNUAL VENTILATOR MAINTENANCE
PRV-C1105	Power Roof Ventilator (Bathroom)	PRV-C1105 / MONTHLY VENTILATOR MAINTENANCE
PRV-C1105	Power Roof Ventilator (Bathroom)	PRV-C1105 / ANNUAL VENTILATOR MAINTENANCE
PWV-C1101	Power Wall Ventilator/Control Room	PWV-C1101 / MONTHLY INSPECTION AND MAINTENANCE
PWV-C1102	Power Wall Ventilator /Storage Room	PWV-C1102 / MONTHLY INSPECTION AND MAINTENANCE
MMS-C1101	Methane Monitoring System (CH4MS)	MMS-C1101 / BI-MONTHLY METHANE MONITORING
RWP-C1101	Raw Waste Pump Flygt 3202	RWP-C1101 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWP-C1103	Raw Waste Pump Flygt 3202	RWP-C1103 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
SUP-C1101	Sump Pump	SUP-C1101 / ANNUAL SUMP PUMP MAINTENANCE
SUP-C1102	Sump Pump	SUP-C1102 / ANNUAL SUMP PUMP MAINTENANCE
SUP-C1101	Sump Pump Pit	SUPP-C1101 / QUARTERLY PUMP & PIT INSPECTION
C-11A	Station Wetwell	C-11A / REMOVE DEBRIS & GRIT BUILDUP IN STATION
C-11	Sanitary Lift Station (3700 N. 31st)	C-11 / STRUCTURE ROOF INSPECTION
C-11	Sanitary Lift Station (3700 N. 31st)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECT
PWBFP-C1101	Backflow Preventer (1-1/2")	PWBFP-C1101 / ANNUAL BACK FLOW PREVENTER
C-11	Sanitary Lift Station (3700 N. 31st)	WEEKLY BUILDING & EQUIPMENT INSPECTION
FST-C1101	Fuel Storage Tank (Diesel)	FST-C1101 / DIESEL FUEL TANK INSPECTION & MA
ARV-C1101	Air Relief Valve for Discharge Manifold	ARV-C1101 / SEMI ANNUAL CLEAN & INSPECTION
SG-C1101	Raw Wastewater Sluice Gate	SG-C1101 / ANNUAL SLUICE GATE MAINTENANCE
SG-C1102	Raw Wastewater Sluice Gate	SG-C1102 / ANNUAL SLUICE GATE MAINTENANCE
SG-C1103	Flow Diversion Gate	SG-C1103 / ANNUAL SLUICE GATE MAINTENANCE

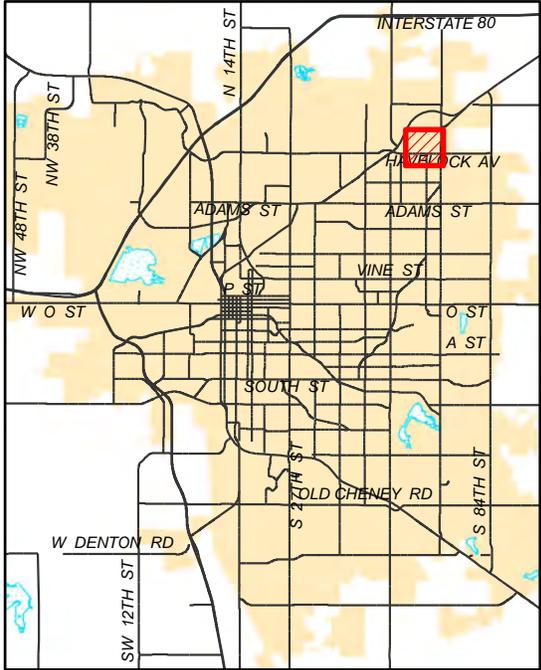
# Map Location for Lift Station C-12 66th & Burlington Ave



**Aerial**



**Overview Map**



## Information Fact Sheet for Lift Station C-12

### Location: 66<sup>th</sup> & Burlington Avenue



**Description:** Lift Station C-12 is located in a Havelock alley near 66<sup>th</sup> & Burlington Avenue. This station has a very small 3 block service area. New pumps and controls were installed in 2002.

**Deficiencies:** Alley access only and access cover rated for truck loads.

**Drainage Basin:** Havelock

**Current Service Area:** 10 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Simplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-6C	Flygt Model DP-3085	157 gpm, 14 TDH	3/230/6.8
MCC-C1201	Motor Control Center		
MTF-6	Multi-Trode Level Sensor		
SG-11	Electrical Switch Gear		
TM-C1201	Telemetry Panel		

**Standby Power:** No

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Telemetry Circuit  
NEBANA-043-656

## Scheduled Maintenance and Information

240V/3/30A Service Connected HP-3.0

RWPS-C1201 / Raw Wastewater Submersible Pump 3.0 HP 157 @ 14' TDH

Flygt-3085.182.0455

Volts / Amps- [240]/480-[8.7]/4.4

Radio Communication ID # RCE-C1201

C12 Base to Russell Drive Base SR-9 – 900MHz

<b>C12</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C1201	Motor Control Center	MCC-C101 / ANNUAL PANEL CLEANING
PLC-C1201	PLC Cabinet at C01	PLC-C101 / ANNUAL PANEL CLEANING
PLC-C1201	PLC Cabinet at C01	PLC-C101 / QUARTERLY TELEMETERING ALARM VARIFICATION
LIT-C1201	Level Controller	LC-C101 / MONTHLY BLOW DOWN & MAINTENANCE
RWPS-C1201	Raw Wastewater Submersible Pump RWPS-9C	RWP-C101 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-12	Sanitary Lift Station (66 & Burlington)	C-12 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-12	Sanitary Lift Station (66 & Burlington)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-12	Sanitary Lift Station (66 & Burlington)	WEEKLY BUILDING & EQUIPMENT INSPECTION



**Information Fact Sheet for Lift Station C-13**  
**Location: NW 3<sup>rd</sup> & West Charleston**



**Description:** Lift Station C-13 is a duplex station located near Oak Lake on West Charleston Street. The station serves a complex of apartments. The station has recently undergone improvements with new pumps, piping, and control panel. The precast barrel of the station has also been raised.

**Deficiencies:** There is some concern about station capacity with the potential of additional apartment complexes in the area.

**Drainage Basin:** Oak Creek

**Current Service Area:** 10 acres

**Avg Daily Flow gpm/cfs/acregpm,** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Duplex

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-7C	Flygt Model NP-3127.180.7861	281 gpm, 63.4 TDH	10/230/26
RWPS-8C	Flygt Model NP-3127.180.7861	281 gpm, 63.4 TDH	10/230/26
MCC-C1301	Motor Control Center		
MTF-9	Mercury Tilt Float Switch		
SG-12	Electrical Switch Gear		
TM-C1301	Telemetry Panel (OL-49-690)		

**Standby Power:** No

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit  
 OL-49-690

## Scheduled Maintenance and Information

480V/3/30A Service Connected HP-20.0

RWPS-C1301 / Raw Wastewater Submersible Pump 10 HP 281 @ 63.4' TDH  
 Flygt - 3127.180.7861  
 Volts / Amps- 240/[480]-26/[13]

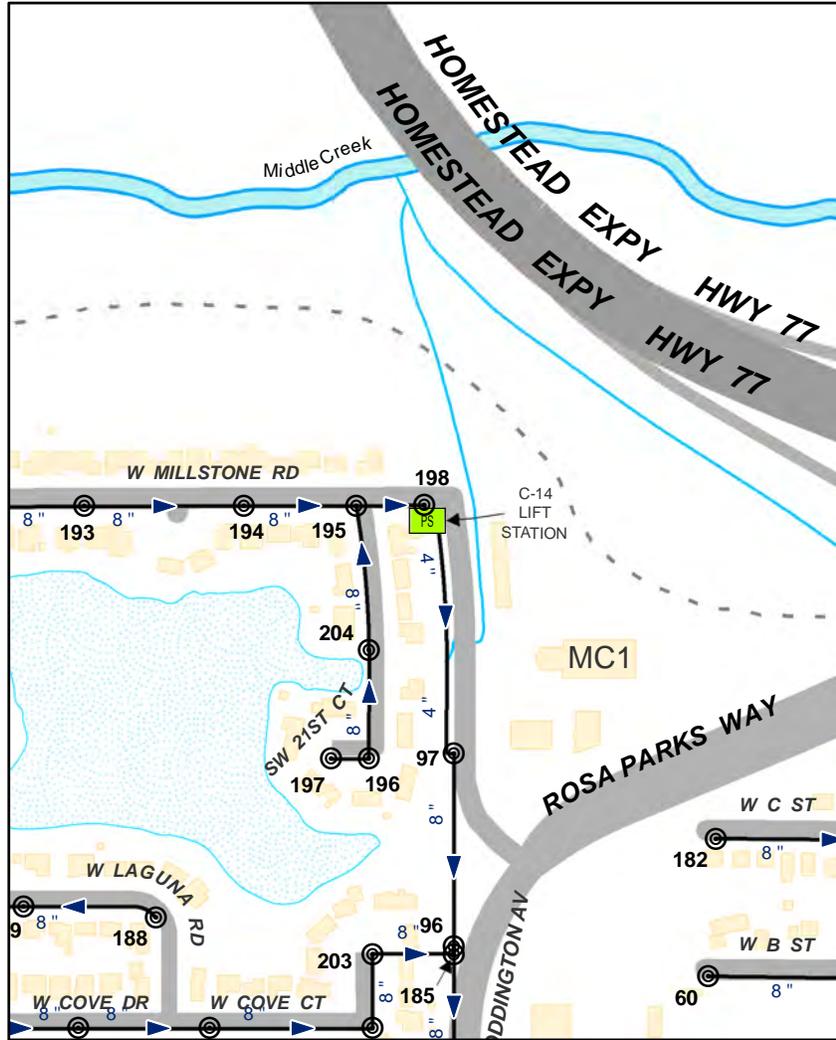
RWPS-C1302 / Raw Wastewater Submersible Pump 10 HP 281 @ 63.4' TDH  
 Flygt – 3127.180.7861  
 Volts / Amps- 240/[480]-26/[13]

Radio Communication ID # RCE-C1301

C13 Base to “K” Street Base CM9 - 5GHz

<b>C13</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C1301	Motor Control Center	MCC-C101 / ANNUAL PANEL CLEANING
PLC-C1301	PLC Cabinet at C13	PLC-C101 / ANNUAL PANEL CLEANING
PLC-C1301	PLC Cabinet at C13	PLC-C101 / QUARTERLY TELEMETERING ALARM VARIFICATION
LIT-C1301	Wetwell Level Sensing Probe	LC-C101 / MONTHLY BLOW DOWN & MAINTENANCE
RWPS-C1301	Raw Wastewater Submersible Pump	RWP-C1301 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C1302	Raw Wastewater Submersible Pump	RWP-C1302 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-13	Sanitary Lift Station (3 & W. Charleston)	C-13 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-13	Sanitary Lift Station (3 & W. Charleston)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-13	Sanitary Lift Station (3 & W. Charleston)	WEEKLY BUILDING & EQUIPMENT INSPECTION

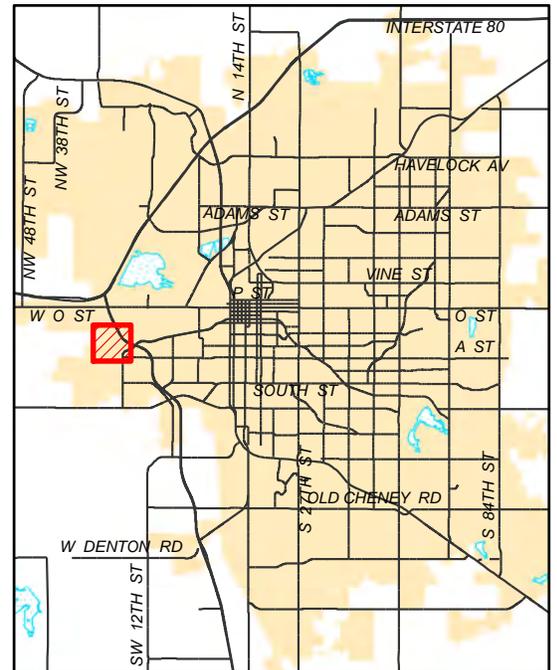
# Map Location for Lift Station C-14 Coddington Mills, SW 21st & W. Milestone Road



**Aerial**



**Overview Map**



# Information Fact Sheet for Lift Station C-14

## Location: Coddington Mills



**Description:** Operation and maintenance of lift station C-14 was assumed by the Lincoln Wastewater system in 1999. The station was privately built to serve the Coddington Mills housing development which surrounds a small lake (originally a sand pit). Equipment in the duplex station has been totally replaced since take-over by City staff. At the present time, the station is adequately sized for service area.

**Deficiencies:** The station is prone to receiving relatively high amounts of biodegradable grease and constant background infiltration from the collection system. Cracked vitrified clay pipe is common around the circumference of the lake. There are no other known deficiencies at this time

**Drainage Basin:** Middle Creek

**Current Service Area:** 37 acres

**Avg Daily Flow gpm/cfs/acre:** Not available

**Peak Flow gpm/cfs/acre :** Not available

**Configuration:** Duplex Submersible

**Equipment:**

EquipId	Manufacturer/Description	Rated Capacity	HP/Volts/Amps
RWPS-14C	Flygt Model CP 3085.182-436	100 gpm, 22.8 TDH	2.2/230/6.7
RWPS-15C	Flygt Model CP 3085.182-436	100 gpm, 22.8 TDH	2.2/230/6.7
MCC-C1401	Motor Control Center		
TM-C1401	Telemetry Panel (OL-49-403)		

**Standby Power:** None

**Remote Monitoring:** Yes, Power Off, Pump Overload, High Level, Seal Failure, Telemetry Circuit OL-49-403

**Planned Capital Improvements:** None identified at this time.

## Scheduled Maintenance and Information

240V/3/30A ServiceConnected HP-4.4

RWPS-C1401 / Raw Wastewater Submersible Pump 2.2 HP 100 @ 22.8' TDH

Flygt - 3085.182.1975

Volts / Amps- [240]/480-[6.7]/3.4

Radio Communication ID # RCE-C1401, C14 Base to Rosa Park relay to "K", CM9 - 5GHz / SR5 – 5Ghz

<b>C14</b>	<b>Scheduled Maintenance Tasks</b>	
MCC-C1401	Motor Control Center	MCC-C1401 / ANNUAL PANEL CLEANING
PLC-C1401	PLC Cabinet at C14	PLC-C1401 / ANNUAL PANEL CLEANING
PLC-C1401	PLC Cabinet at C14	PLC-C1401 / QUARTERLY TELEMETERING ALARM VERIFICATION
LIT-C1401	Wetwell Level Sensing Probe	LIT-C1401 / MONTHLY CALIBRATION AND CLEANING
RWPS-C1401	Raw Wastewater Submersible Pump RWPS-14C	RWPS-C1401 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
RWPS-C1402	Raw Wastewater Submersible Pump RWPS-15C	RWPS-C1401 / ANNUAL SUBMERSIBLE PUMP MAINTENANCE
C-14	Sanitary Lift Station (Coddington Mills)	C-14 / REMOVE DEBRIS & GRIT BUILDUP IN STATION WETWELL
C-14	Sanitary Lift Station (Coddington Mills)	LIFT STATION SYSTEM ROUNDS/WEEKLY INSPECTION
C-14	Sanitary Lift Station (Coddington Mills)	WEEKLY BUILDING & EQUIPMENT INSPECTION