

## **SASD 2010 SYSTEM CAPACITY PLAN EXPANSION TRUNK SHEDS**

### **NN GREENBRIAR TRUNK SHED**

#### **Area Description**

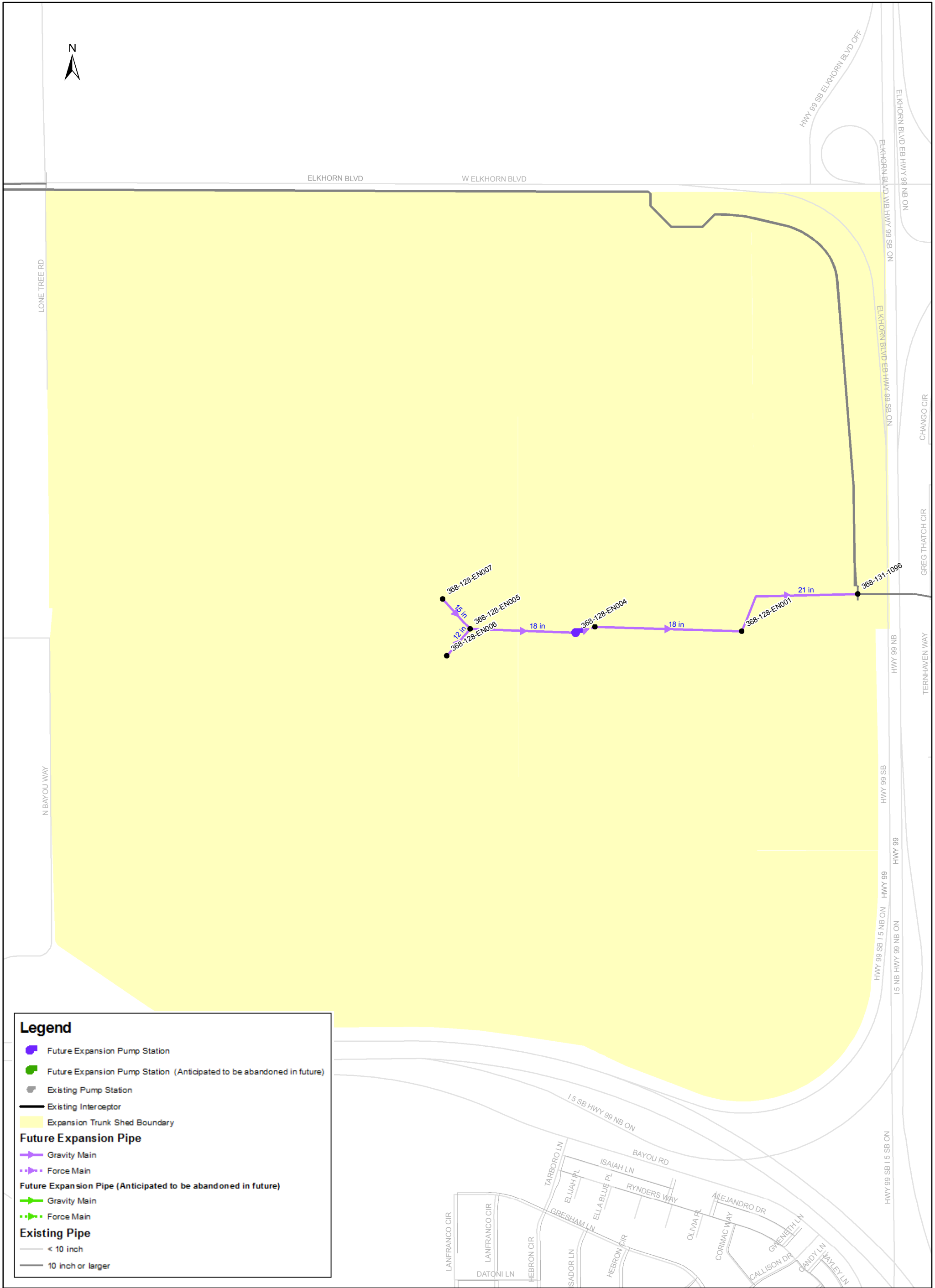
The NN Greenbriar Trunk Shed is located west of Highway 99, north of Interstate 5, east of Metro Air Park, and south of West Elkhorn Boulevard.

#### **Trunk System Facilities**

One primary trunk sewer and one trunk pump station would serve the Greenbriar trunk shed. The pump station will serve a majority of the shed and it will be located in the central-eastern portion of the trunk shed. It will utilize a short forcemain to allow additional connections to the trunk sewer downstream of the pump station. The Greenbriar trunk would connect to existing trunk sewer manhole 368-131-1096 which is located near the eastern boundary of the shed, just west of Highway 99.

**NN Greenbriar  
Trunk Sewer Data and Model Results  
Buildout 10-Year Design Storm**

US Manhole	DS Manhole	Link Suffix	Link Type	Diameter (in)	Length (ft)	US Rim Elev. (ft)	US Invert Elev. (ft)	DS Rim Elev. (ft)	DS Invert Elev. (ft)	Slope, %	Full Capacity (mgd)	Peak Flow (mgd)	% Full Capacity	d/D
368-128-EN007	368-128-EN005	1	Gravity Main	15	246	18.3	-13.6	18.5	-14.1	0.180	1.77	1.16	66	0.6
368-128-EN005	368-128-EN004	1	Gravity Main	18	644	18.5	-14.3	20.4	-15.2	0.140	2.54	2.04	80	0.7
368-128-EN004	368-128-EN002	1	Pump									2.04		0.0
368-128-EN002	368-128-EN003	1	Force Main	10	113	20.4	-14.7	20.5	6.5	-18.740		2.04		1.0
368-128-EN003	368-128-EN001	1	Gravity Main	18	886	20.5	6.9	21.9	5.7	0.140	2.54	2.52	99	0.8
368-128-EN001	368-131-1096	1	Gravity Main	21	842	21.9	5.4	21.7	4.4	0.120	3.55	2.84	80	0.7



**Legend**

- Future Expansion Pump Station
- Future Expansion Pump Station (Anticipated to be abandoned in future)
- Existing Pump Station
- Existing Interceptor
- Expansion Trunk Shed Boundary
- Future Expansion Pipe**
- Gravity Main
- Force Main
- Future Expansion Pipe (Anticipated to be abandoned in future)**
- Gravity Main
- Force Main
- Existing Pipe**
- < 10 inch
- 10 inch or larger



**2010 SASD SYSTEM CAPACITY PLAN**

**NN Greenbriar  
Year 2020 Expansion Plan**

**FIGURE A.16-1**



ELKHORN BLVD

W ELKHORN BLVD

ELKHORN BLVD EB HWY 99 NB ON

ELKHORN BLVD WB HWY 99 SB ON

ELKHORN BLVD EB HWY 99 SB ON

CHANGO CIR

GREG THATCH CIR

SEATUCK CT

TERNHAVEN WAY

HWY 99 NB

HWY 99 SB

HWY 99

HWY 99 SB 1.5 NB ON

HWY 99 NB 1.5 NB ON

HWY 99 SB 1.5 SB ON

HWY 99 SB 1.5 SB ON

HWY 99 SB 1.5 SB OFF

HWY 99 SB 1.5 SB ON

LONE TREE RD

N BAYOU WAY

1.5 NB

1.5 SB HWY 99 NB ON

BAYOU RD

TARBORO LN

ISAIAH LN

RYNDERS WAY

OLIVIA PL

ALEJANDRO DR

CORMAC WAY

GWENETH LN

CALLISON DR

CANDY LN

JAYLEY LN

LANFRANCO CIR

LANFRANCO CIR

DATONI LN

HEBRON CIR

ISADOR LN

HEBRON CIR

ZELLER PL

GRESHAM LN

ELLA BLUE PL

RYNDERS WAY

OLIVIA PL

ALEJANDRO DR

CORMAC WAY














GWENETH LN

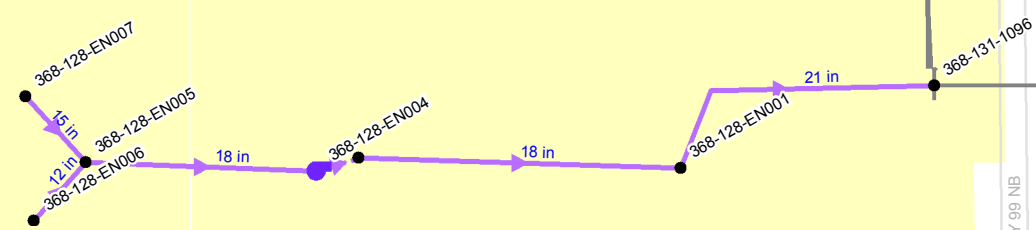
CALLISON DR

CANDY LN

JAYLEY LN

**Legend**

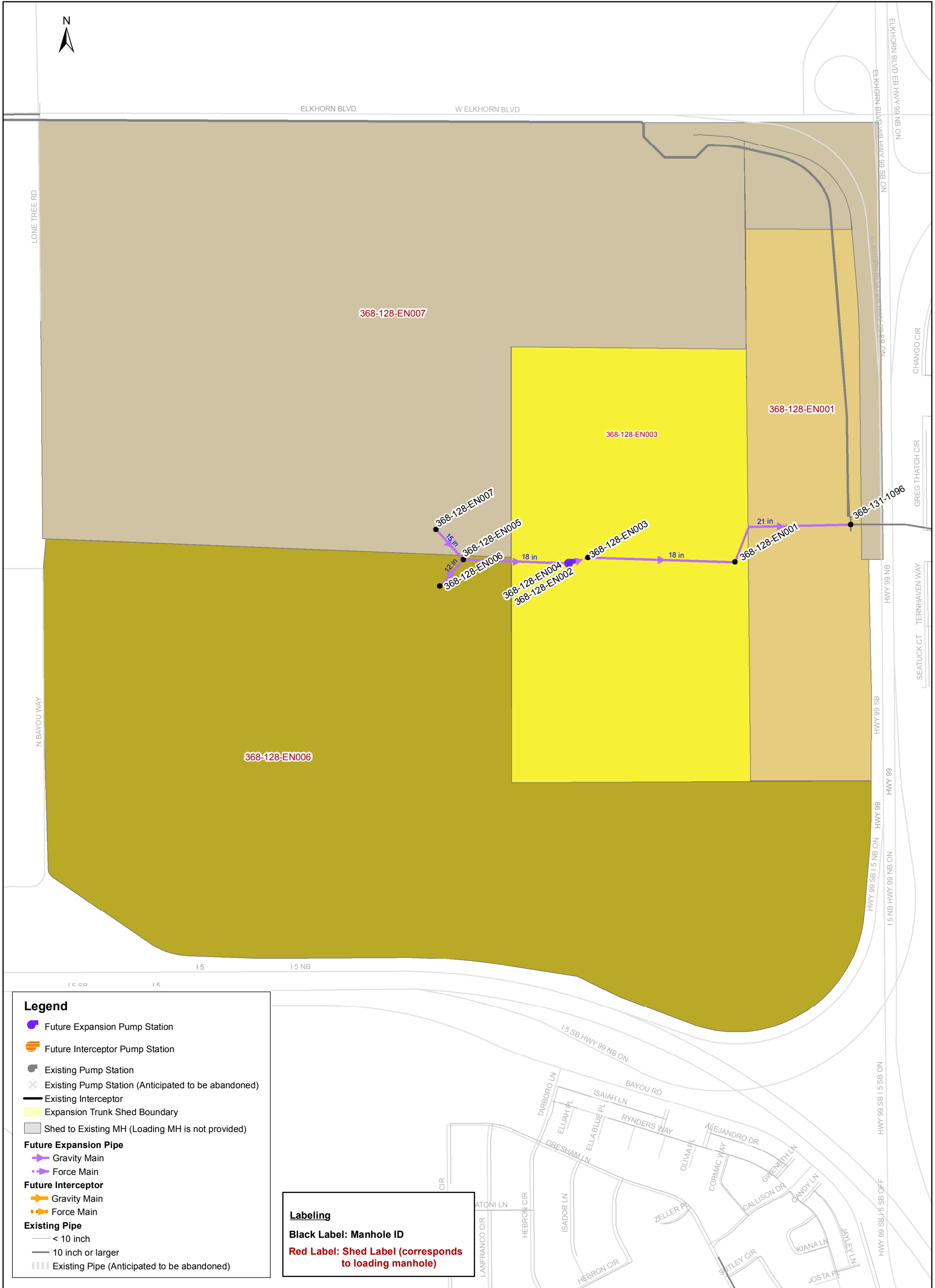
-  Future Expansion Pump Station
-  Future Interceptor Pump Station
-  Existing Pump Station
-  Existing Pump Station (Anticipated to be abandoned)
-  Existing Interceptor
-  Expansion Trunk Shed Boundary
- Future Expansion Pipe**
-  Gravity Main
-  Force Main
- Future Interceptor**
-  Gravity Main
-  Force Main
- Existing Pipe**
-  < 10 inch
-  10 inch or larger
-  Existing Pipe (Anticipated to be abandoned)



**2010 SASD SYSTEM CAPACITY PLAN**

**NN Greenbriar  
Buildout Expansion Plan**

**FIGURE A.16-2**



- Legend**
- Future Expansion Pump Station
  - Future Interceptor Pump Station
  - Existing Pump Station
  - Existing Pump Station (Anticipated to be abandoned)
  - Existing Interceptor
  - Expansion Trunk Shed Boundary
  - Shed to Existing MH (Loading MH is not provided)
  - Future Expansion Pipe**
    - Gravity Main
    - Force Main
  - Future Interceptor**
    - Gravity Main
    - Force Main
  - Existing Pipe**
    - < 10 inch
    - 10 inch or larger
    - Existing Pipe (Anticipated to be abandoned)

**Labeling**  
**Black Label: Manhole ID**  
**Red Label: Shed Label (corresponds to loading manhole)**



**2010 SASD SYSTEM CAPACITY PLAN**  
**NN Greenbriar**  
**Sewer Shed Map**  
**Buildout Expansion Plan**  
**FIGURE A.16-3**