

PROJECT DESCRIPTION/NOTES

Homes along Nelda St and Elsik St are at risk for flooding during the 25-year storm event. Proposed improvements include the following, presented in the order they should be implemented:

1. Create ditches/channels in the alley behind the houses at Elsik St and Nelda St, with an inlet and lateral pipe connecting into the existing storm drain flowing south along Short Ave. (PHASE I)
2. Install a proposed lateral pipe at Elsik St connecting into the existing storm drain trunkline at Short Ave. If needed, the following solutions can be included, as well. (PHASE I)
3. Create a ditch within the Nelda St ROW from Short Ave to Stratton Ave with inlets and laterals connecting into the existing storm drain system along Nelda St. Install detention center, or centers, in locations along S Saunders and west along Nelda St. (PHASE II)
4. Raise existing road elevations from S Austin St to 330 ft west of Stratton and Nelda St. Upsize existing storm drain network under Nelda St. (PHASE III)

ALT Channel:

Proposed southern channel along Nelda may extend south along Boenig St to discharge into a proposed conduit at Golf and Boenig St, and outfall into the Guadalupe River.

BENEFITS

- Reduces flood risk for homes along Elsik and Nelda St
- Reduces flood risk within Nelda St for traffic flow improvement during storm events

CHALLENGES

- Possible downstream impacts
- Downstream storm drain systems will need to be analyzed for capacity
- Construction impacts to homeowners
- Adverse impacts to elevating existing roadway will need to be assessed
- Alternative channel and culvert along Boenig will require property acquisition

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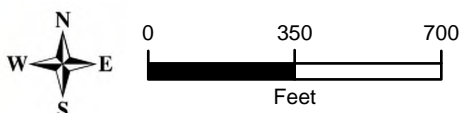
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City of Seguin Drainage Master Plan
Risk Area K & X
Nelda St from Boenig St to Legette St



100 NE Loop 410, Suite 701
San Antonio, TX 78216



57484.001
Seguin Master Drainage Plan

Engineer's Opinion of Probably Cost

City of Seguin, TX

Risk Area K&X - Nelda St from Boenig St to Legette St - Phase 1, Phase II, Phase III, and Alt 2

TxDOT Bid Item	Pay Item	Description	Unit	Quantity	Unit Price	Total
500-7001	1	MOBILIZATION (10%)	L.S.	1.0	\$160,600.00	\$ 160,600.00
502-7001	2	BARRICADES, SIGNS AND TRAFFIC HANDLING (3%)	L.S.	1.0	\$ 48,200.00	\$ 48,200.00
110-7002	3	EXCAV (CHANNEL)	CY	778.0	\$ 22.85	\$ 17,777.30
110-7003	4	EXCAV (SPECIAL)	CY	7,615.0	\$ 16.25	\$ 123,743.75
530-7006	5	DRIVEWAYS (CONC)	SY	100.0	\$ 130.00	\$ 13,000.00
104-7017	6	REMOV CONC (CURB & GUTTER)	LF	750.0	\$ 7.92	\$ 5,940.00
105-7003	7	REMOVING STAB BASE AND ASPH PAV (includes driveway)	SY	7,613.0	\$ 5.19	\$ 39,511.47
COS-CRB3	8	CONCRETE CURB AND GUTTER	LF	750.0	\$ 50.00	\$ 37,500.00
COS-SW1	9	CONCRETE SIDEWALK (including ramps)	SY	0.0	\$ 100.00	\$ -
COSA-205.4	10	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)(PG 70-22)	SY	7,513.0	\$ 20.00	\$ 150,260.00
110-7001	11	EXCAV (ROADWAY)	CY	0.0	\$ 9.55	\$ -
464-7005	12	RC PIPE (CL III)(24 IN)	LF	245.0	\$ 125.11	\$ 30,651.95
464-7012	13	RC PIPE (CL III)(54 IN)	LF	2,000.0	\$ 556.12	\$ 1,112,240.00
402-7001	14	TRENCH EXCAVATION PROTECTION	LF	2,230.0	\$ 4.86	\$ 10,837.80
465-7158	15	INLET (COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT	EA	4.0	\$ 5,429.01	\$ 21,716.04
496-7007	16	REMOV STR (PIPE)	LF	2,000.0	\$ 20.96	\$ 41,920.00
506-7040	17	TEMP SDMT CONT FENCE (INLET PROTECTION)	LF	48.0	\$ 2.81	\$ 134.88
506-7041	18	TEMP SDMT CONT FENCE (REMOVE)	LF	48.0	\$ 1.10	\$ 52.80
160-7002	16	FURNISHING AND PLACING 4" TOPSOIL	SY	1,524.0	\$ 1.71	\$ 2,606.04
COSA-516.2	20	ST. AUGUSTINE SODDING	SY	4,570.0	\$ 12.00	\$ 54,840.00
Construction subtotal						\$ 1,814,085.99
Bond and Insurance (3%)						\$ 54,422.58
Material testing (2%)						\$ 36,281.72
Contingency (40%)						\$ 725,634.40
Construction Total						\$ 2,630,424.69
Utility Adjustments (5% of construction)						\$ 131,521.23
ROW Costs (5% of construction)						\$ 131,521.23
Preliminary Engineering Report (10% of construction)						\$ 263,042.47
Engineering Costs (15% of construction)						\$ 394,563.70
Grand Total						\$ 3,551,074.00
Bid items are from City details or TxDOT 2024 specifications						