



CITY OF STURGEON BAY BOARD OF PUBLIC WORKS AGENDA

TUESDAY, JANUARY 2, 2018

12:00 P.M.

**COUNCIL CHAMBERS, CITY HALL – 421 MICHIGAN STREET
STEWART FETT, CHAIRPERSON**

1. Call to order.
2. Roll call.
3. Adoption of agenda.
4. Consideration of: Approval of Five Year Capital Plan and 2018 Capital Roadway Improvements.
5. Adjourn.

NOTE: DEVIATION FROM THE AGENDA ORDER SHOWN MAY OCCUR.

Posted:

Date: 12.29.17

Time: 12:00 pm

By: JM

EXECUTIVE SUMMARY

DATE: December 27, 2017

TITLE: 5 Year Capital Plan and 2018 Capital Roadway Improvements

BACKGROUND: Using the PASER Rating System projects have been identified for 2018 through 2022. The five year capital plan is revised and approved each year to adjust for levels of funding, unanticipated deterioration of specific roadways, coordination with SB Utilities, and other issues that warrant the delay or acceleration of various planned roadway projects. For 2018 the proposed capital roadway improvement projects include:

- 1) N 4th Ave (from Delaware Street to 710' North of Delaware Street): Full reconstruction of the roadway. This project will include all new curbing and the replacement of the sanitary sewer & water mains and laterals. In addition, the roadway width (from face of curb to face of curb) will be reduced by 9'-0" from 39'-0" to 30'-0". This roadway currently has very poor drainage and the reduction of the width allows for adjustments to the curbing height to help improve the drainage of the roadway.
- 2) Texas Street (from S 9th Ave to S 10th Ave): Full reconstruction of the roadway. This roadway will have minimal changes but the project will include all new curbing, replacement of the storm sewer at S 10th Ave, and replacement of the sanitary sewer & water mains and laterals.
- 3) N 12th Ave (from Egg Harbor Road to Georgia Street): Mill & pave. This project will include replacement of the pavement, spot replacement of the curbing on the West side of the roadway, all new curbing on the East side of the roadway, storm sewer modifications near Georgia Street, and the addition of sidewalks & street trees on the East side of the roadway. Due to utility conflicts and grade issues the roadway will be narrowed approximately 8'-0" along the majority of the roadway to allow for the addition of the new sidewalks. At the reduced width areas the roadway width (from face of curb to face of curb) will be 31'-0" vs. 39'-0". However, the roadway will remain its current width near Georgia Street (to allow for transitioning down to the reduced width) and Egg Harbor Road (to allow for both a left and right turn lane onto Egg Harbor Road).
Typically the City has assessed the abutting property Owners for the cost of new sidewalks while the City pays for the remainder of the restoration work (driveway repairs, apron installations, etc.) to complete the project. The 2018 Capital Roadway Improvements include an estimated special assessment of \$39,629.50. This special assessment would be applied to 7 parcels and an estimated breakdown is attached.
- 4) N 12th Ave (from Georgia Street to Louisiana Street): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing & sidewalks.
- 5) N 3rd Ave (from Jefferson Street to Iowa Street): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing & sidewalks.
- 6) Georgia Street (from N 18th Ave to N 19th Ave): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing.
- 7) S 18th Ave (from Rhode Island Street to Utah Street): Pulverize and pave. This roadway will have minimal changes but the project will include pulverizing the existing asphalt pavement in place, replacement of the pavement, and replacement of the culvert at Utah Street.
- 8) Intersection of S Madison Ave & Pine Street: This project will include misc. concrete sidewalk, curbing, and roadway repairs. The intersection will have to be closed down during the repairs but the specifications will require this project to be completed prior to Memorial Day weekend.

- 9) Duluth Ave / CTH C (from Hwy 42/57 to W Elm Street): Full reconstruction of the roadway. This project is a County project that involves a Federal grant. In May of 2011 the City of Sturgeon Bay entered into an Intermunicipal Agreement with the County to share in the costs of the project due to the fact that many of the improvements being implemented are above and beyond the typical standards of a County highway. This project will include:
- Replacement of the pavement.
 - New concrete curbing along the entire roadway (including areas that currently do not have concrete curbing).
 - New sidewalks and bike lanes on both sides of the roadway. In addition, the sidewalk along the North side of West Maple Street that currently ends at the driveway entrance to St. John Bosco School will be extended to the West to tie into the new sidewalks along Duluth Ave / CTH C.
 - Reconstruction and realignment of the intersection at W Maple Street so that W Maple Street is no longer staggered on the East and West sides of the roadway.
 - New storm sewer along the majority of the roadway including a new storm sewer main along W Hickory Street from Duluth Ave / CTH C to the Bay of Green Bay.
- 10) W Hickory Street (from N Duluth Ave / CTH C to N Joliet Ave): Mill & pave. This project will include replacement of the pavement (spot replacement of the curbing was completed in 2017). The N Duluth Ave / CTH C project will include adding a new storm sewer main down W Hickory Street. When the storm sewer main is completed the project grant only allows for repaving the 10' wide trench for the new storm sewer main. Due to the condition of the roadway the City will be paying to repave the remaining 21' of the roadway in order to avoid a dramatic difference in driving surfaces and multiple roadway patches.

FISCAL IMPACT: The proposed capital roadway improvements are expected to use approximately \$1,524,265.00 of the \$1,536,607.00 budgeted for the 2018 capital roadway improvements. Therefore, if the bids come in favorably all of the projects should be able to be completed as proposed. If not, modifications to the plan may be needed in order to stay within the overall 2018 capital budgets.

RECOMMENDATION: Staff recommends the approval of the 2018 five year capital plan including the authorization for the preparation of bid documents for the 2018 capital roadway improvement projects as described above.

SUBMITTED BY: Chad Shefchik

Chad Shefchik, City Engineer

REVIEWED BY: JV

Joshua VanLieshout, City Administrator

REVIEWED BY: Marty Olejniczak

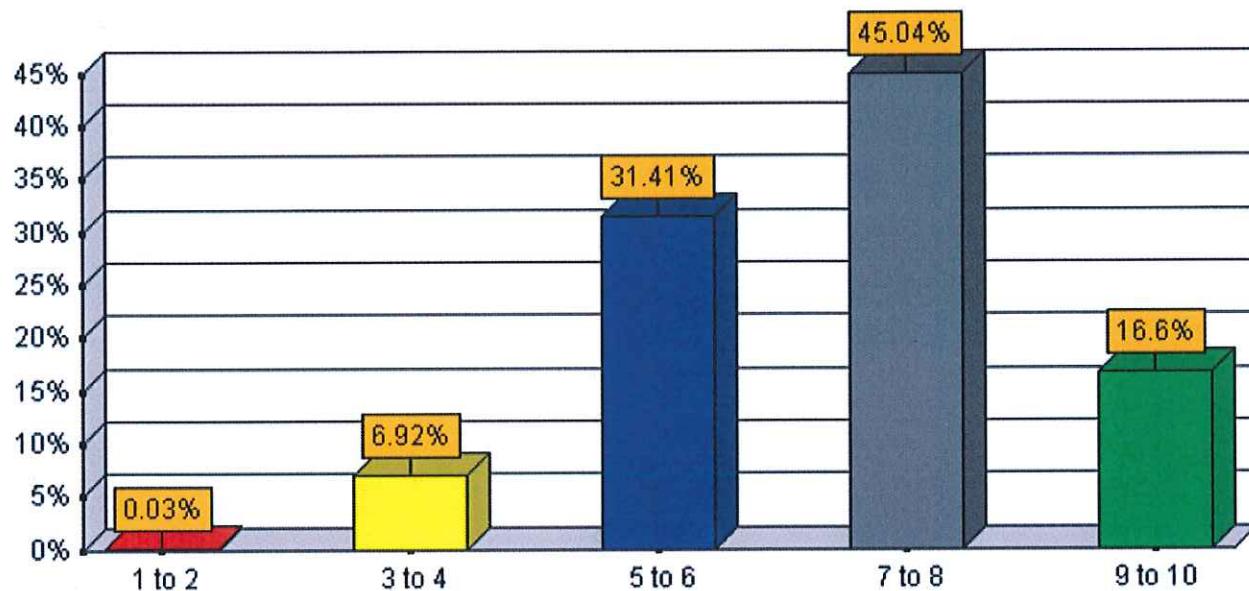
Marty Olejniczak, Community Development Director

Parcel Number	Last Name	First Name	Property Address	4" Sidewalk (SF)	4" Sidewalk Cost	6" Sidewalk - Typ. (SF)	6" Sidewalk - Typ. Cost	6" Sidewalk - HE (SF)	6" Sidewalk - HE Cost	Total Cost
2816215000111A	Parsons	William & Elizabeth	1019 N 12th Ave	\$ 1796.00	\$ 9,429.00	\$ 135.00	\$ 843.75	\$ 0.00	\$ -	\$ 10,272.75
2816215000116	Ehlers	Steven & Lori	664 N 12th Ave	\$ 1699.00	\$ 8,919.75	0.00	\$ -	\$ 136.00	\$ 884.00	\$ 9,803.75
2816215000123	Koutnik	Edward & Cynthia	636 N 12th Ave	\$ 628.00	\$ 3,297.00	0.00	\$ -	\$ 124.00	\$ 806.00	\$ 4,103.00
2816215000124	Nick	William	620 N 12th Ave	\$ 642.00	\$ 3,370.50	0.00	\$ -	\$ 103.00	\$ 669.50	\$ 4,040.00
2816215000117	Rentals, LLC	Handy	606 N 12th Ave	\$ 274.00	\$ 1,438.50	0.00	\$ -	\$ 76.00	\$ 494.00	\$ 1,932.50
2816215000113	Premier	Sturgeon Bay, LLC	514 N 12th Ave	\$ 985.00	\$ 5,171.25	0.00	\$ -	\$ 154.00	\$ 1,001.00	\$ 6,172.25
2814616050101	Arneman	Kevin	1210 Georgia Street	\$ 561.00	\$ 2,945.25	0.00	\$ -	\$ 0.00	\$ -	\$ 2,945.25
			Totals	\$ 6585.00	\$ 34,571.25	\$ 135.00	\$ 843.75	\$ 593.00	\$ 3,854.50	\$ 39,269.50

2017 - 2019

Condition Frequency Report - Paved City of Sturgeon Bay

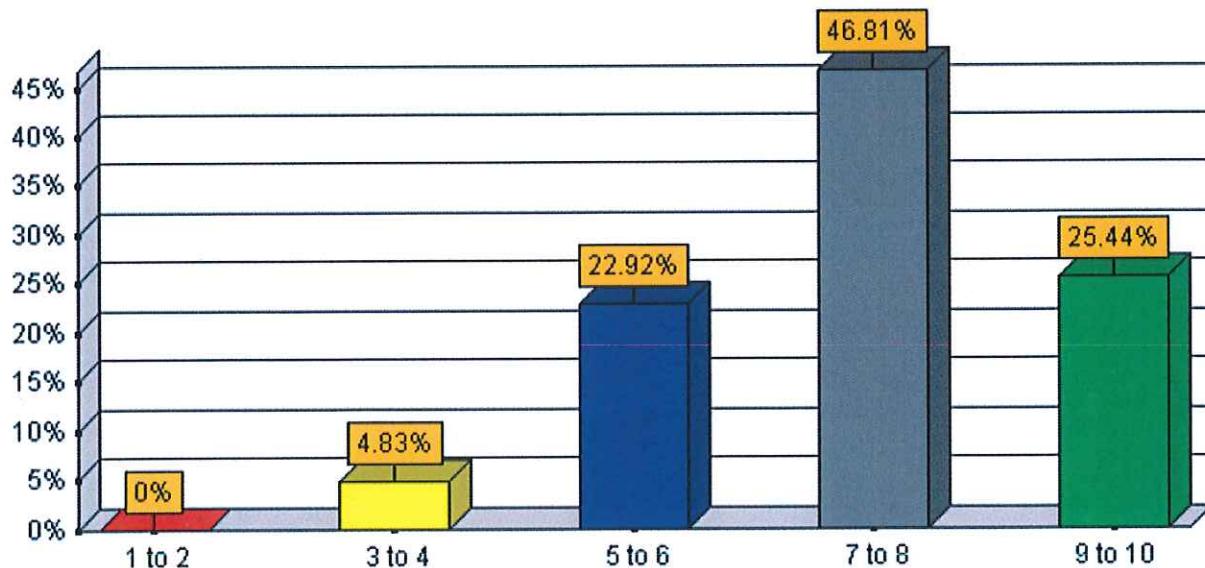
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2015 - 2017

Condition Frequency Report - Paved City of Sturgeon Bay

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Asphalt pavement distress

PASER uses visual inspection to evaluate pavement surface conditions. The key to a useful evaluation is identifying different types of pavement distress and linking them to a cause. Understanding the cause for current conditions is extremely important in selecting an appropriate maintenance or rehabilitation technique.

There are four major categories of common asphalt pavement surface distress:

Surface defects

Raveling, flushing, polishing.

Surface deformation

Rutting, distortion—rippling and shoving, settling, frost heave.

Cracks

Transverse, reflection, slippage, longitudinal, block, and alligator cracks.

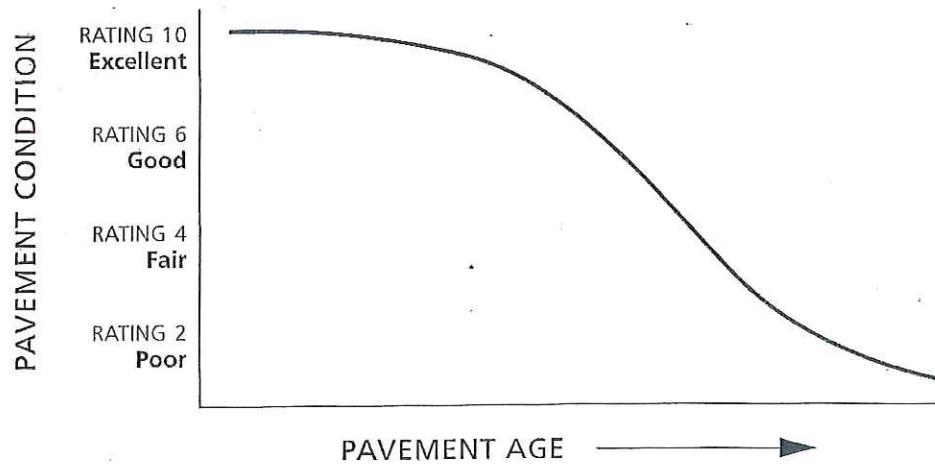
Patches and potholes

Deterioration has two general causes: environmental due to weathering and aging, and structural caused by repeated traffic loadings.

Obviously, most pavement deterioration results from both environmental and structural causes. However, it is important to try to distinguish between the two in order to select the most effective rehabilitation techniques.

The rate at which pavement deteriorates depends on its environment, traffic loading conditions, original construction quality, and interim maintenance procedures. Poor quality materials or poor construction procedures can significantly reduce the life of a pavement. As a result, two pavements constructed at the same time may have significantly different lives, or certain portions of a pavement may deteriorate more rapidly than others. On the other hand, timely and effective maintenance can extend a pavement's life. Crack sealing and seal coating can reduce the effect of moisture in aging of asphalt pavement.

RIDE



Year	Street Name	Start	End	Paser Rating	Paser Rating	Improvement Type	Notes	
							Total Reconstruction With SBU Participation (30' / 22' Face to Face)	Total Reconstruction With SBU Participation (34' Face to Face)
2018	N 4th Ave	Delaware Street	710' North	4	4	4	Full Reconstruct (See Estimate)	Adds Sidewalk on East Side & 8' Less Width (39' to 31' Face to Face) - Special Assess Needed = \$39,629.50 (7 Parcels)
2018	Texas Street	S 9th Ave	S 10th Ave	4	4	4	Full Reconstruct (See Estimate)	
2018	N 12th Ave	Georgia Street	Egg Harbor Road	5	5	4	Mill & Pave	
2018	N 12th Ave	Louisiana Street	Georgia Street	5	5	4	Mill & Pave	
2018	N 3rd Ave	Jefferson Street	Iowa Street	5	5	5	Mill & Pave	
2018	Georgia Street	N 18th Ave	N 19th Ave		6	5	Mill & Pave	
2018	S 18th Ave	Rhode Island Street	Utah Street	5	5	4	Mill & Pave	Repair similar to existing rural cross section
2018	S Madison Ave Intersection	With Pine Street			Misc - Concrete Roadway Repairs		Concrete Roadway Repairs	
						\$732,178	Total Expenses - All Proposed Projects	
						\$732,762	Total Capital Roadway Improvement Available Budgets	
2018	Duluth Ave	Hwy 42/57	W Elm Street		Full Reconstruct (Grant)		Adds storm sewer along with sidewalks and bike lanes on both sides of roadway	
2018	W Hickory Street	N Duluth Ave	N Joliet Ave	6	6	Mill & Pave	Mill & Pave roadway areas not covered by the Duluth Ave project patching areas	
						\$792,087	Total Expenses - All Proposed Projects	
						\$803,845	Total Capital Roadway Improvement Available Budgets	

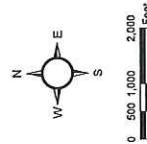
Year	Street Name	Start	End	2013			2015			2017			Notes
				Paser Rating	Improvement Type								
2019	E Pine Street	S Madison Ave	S Neenah Ave		5	5	5	5	5	Full Reconstruct (See Estimate)	Total Reconstruction With SBU Participation		
2019	Georgia Street	N 3rd Ave	N 4th Ave	5	5	5	5	5	5	Full Reconstruct (See Estimate)	Total Reconstruction With SBU Participation (29' Face to Face)		
2019	Georgia Street	N 5th Ave	585' East of N 5th Ave	5	5	5	5	5	5	Full Reconstruct (See Estimate)	Total Reconstruction With SBU Participation (34' Face to Face)		
2019	Georgia Street	585' East of N 5th Ave	N 7th Ave	5	5	5	5	5	5	Mill & Pave	Adds sidewalk on West side of N 7th Ave to Georgia St - Special Assess Needed		
2019	Georgia Street	N 7th Ave	N 8th Ave	5	5	5	5	5	5	Mill & Pave			
2019	N 3rd Ave	Delaware Street	Alabama Street	5	5	5	4	4	4	Mill & Pave			
2019	Alabama Street	N 3rd Ave	250' West of N 3rd Ave		3	3	3	3	3	Mill & Pave	Do with N 3rd Ave due to changed entry / intersection		
2019	Florida Street	N 18th Ave	N 19th Drive	6	5	5	5	5	5	Mill & Pave			
2019	S 14th Ave	Rhode Island Street	Quincy Street + 180' North		6	4	4	4	4	Mill & Pave			
										\$743,437	Total Expenses - All Proposed Projects		
										\$745,000	Total Capital Roadway Improvement Available Budgets		

Year	Street Name	Start	End	2013		2015		2017		Improvement Type	Notes
				Paser Rating							
2020	E Walnut Drive	E Walnut Place	S Tomahawk Ave	4	4	4	4	4	4	Full Reconstruct (See Estimate)	Total Reconstruction - may need to include new utilities - SBU to verify
2020	W Pine Street	S Lansing Ave	S Hudson Ave	5	4	4	4	4	4	Mill & Pave	Includes extending North side sidewalk to S Hudson Ave - Special Assess Needed
2020	S Kendale Ave	W Pine Street	South end of cul-de-sac		4	3	3	3	3	Mill & Pave	
2020	S Ridgeway Drive	Tacoma Beach Road	E Binnacle Place			5	5	5	5	Mill & Pave	
2020	E Binnacle Place	S Ridgeway Drive	S Ridgeway Ave			5	5	5	5	Mill & Pave	
2020	S Neenah Ave	E Oak Street	E Redwood Street	6	6	6	6	6	6	Mill & Pave	
2020	S Neenah Ave	S Oxford Ave	Hwy 42/57		6	6	6	6	6	Mill & Pave	
2020	Utah Street	S 15th Ave + 100'	S 18th Ave	5	4	4	4	4	4	Mill & Pave	
										\$752,554	Total Expenses - All Proposed Projects
										\$765,000	Total Capital Roadway Improvement Available Budgets

Year	Street Name	Start	End	Paser Rating	Paser Rating	Improvement Type	Notes	2013	2015	2017
								Paser	Paser	Paser
2021	E Walnut Place	E Walnut Drive	S Tomahawk Ave	5	4	4	Mill & Pave			
2021	S Ridgeway Drive	E Walnut Place - 250'	Circle Ridge Place	6	6	6	Mill & Pave			
2021	Circle Ridge Place	S Ridgeway Drive	Quarter Deck Lane		3	3	Mill & Pave			
2021	S Ridgeway Drive	E Binnacle Place	Termination		5	5	Mill & Pave			
2021	S Ridgeway Ave	E Binnacle Place	Termination		5	5	Mill & Pave			
2021	S Fulton Ave & W Spruce Place	W Spruce Drive	S Geneva Ave		5	5	Mill & Pave			
2021	S Baraboo Ave	W Maple Street	W Oak Street		5	5	Mill & Pave			
2021	Louisiana Street	N 4th Ave	N 5th Ave		5	5	Mill & Pave			
2021	Alabama Street	N 3rd Ave	N 4th Ave		3	3	Mill & Pave			
2021	Alabama Street	N 4rd Ave	N 5th Ave		3	3	Mill & Pave			
2021	N 4th Ave	Alabama Street	490' South	4	4	3	Mill & Pave			
2021	N 6th Ave	Delaware Street	Belmar Street	4	4	4	Mill & Pave			
2021	Bluebird Street	N 12th Place	N 14th Ave		5	5	Mill & Pave			
2021	N 12th Place	Bluebird Street	700' North of Bluebird Street		5	5	Mill & Pave			
2021	N 10th Place	Louisiana Street	N 11th Place		6	6	Mill & Pave			
2021	Huron Street	N 14th Place	N 15th Place		3	3	Mill & Pave			
							\$782,620	Total Expenses - All Proposed Projects		
							\$785,000	Total Capital Roadway Improvement Available Budgets		

Year	Street Name	Start	End	Rating	Paser Rating	Paser	Paser	Improvement Type	Notes	2013	2015	2017
										Paser	Paser	Paser
2022	Cherry Court	Delaware Street	N 8th Place	4	4	4	4	Mill & Pave				
2022	N 8th Place	Delaware Street	North to Termination	4	4	4	4	Mill & Pave				
2022	Florida Street	N 3rd Ave	N 3rd Ave + 200' West	5	5	5	5	Mill & Pave				
2022	S Hudson Ave	W Walnut Drive	Termination	5	5	5	5	Mill & Pave				
2022	Shiloh Road	E Yew Street	450' South	7	6	6	6	Mill & Pave				
2022	Shiloh Road	E Yew Street -450'	E Deck Street	7	6	6	6	Mill & Pave				
2022	Georgia Street	N 4th Ave	N 5th Ave	5	5	5	5	Mill & Pave				
2022	N 6th Place	Florida Street	Erie Street	6	3	3	3	Mill & Pave				
2022	N 17th Drive	Erie Street	Florida Street	4	4	4	4	Mill & Pave				
2022	N 15th Place	Georgia Street	Florida Street	4	4	4	4	Mill & Pave				
2022	N 18th Ave	Michigan Street	Florida Street		5		5	Mill & Pave				
2022	S 15th Ave	Michigan Street	Memorial Drive		5/6		5/6	Mill & Pave				
2022	Memorial Drive	S 3rd Ave	Utopia Circle		5/6		5/6	Mill & Pave				
2022	Division Road	CNTY U	Shiloh Road		6		6	Mill & Pave				
2022	W Walnut Drive	S Hudson Ave	S Duluth Ave		5		5	Mill & Pave				
									\$1,674,045	Total Expenses - All Proposed Projects		
									\$805,000	Total Capital Roadway Improvement Available Budgets		

**City of Sturgeon Bay
2018
5 Year C.I.P. Map**

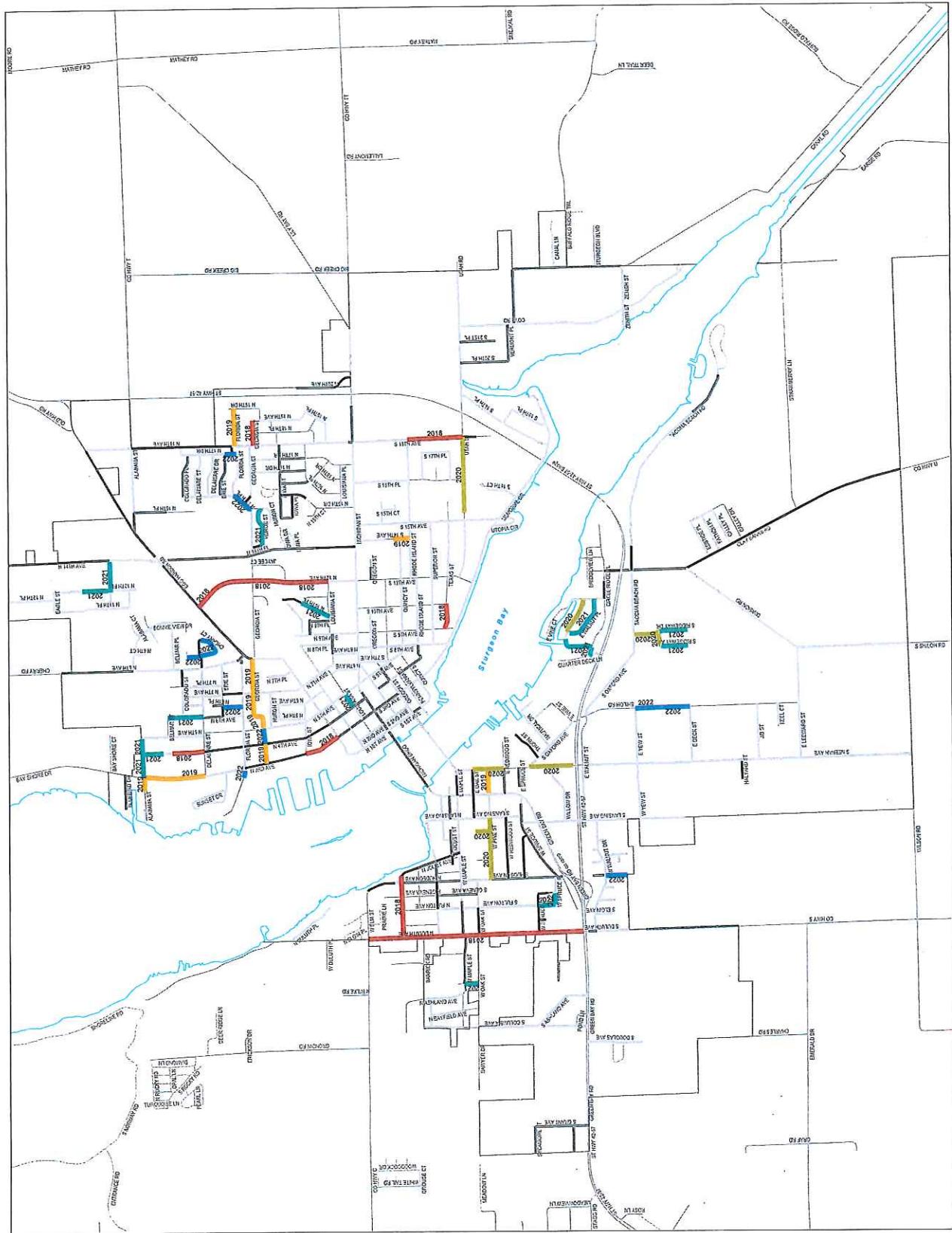


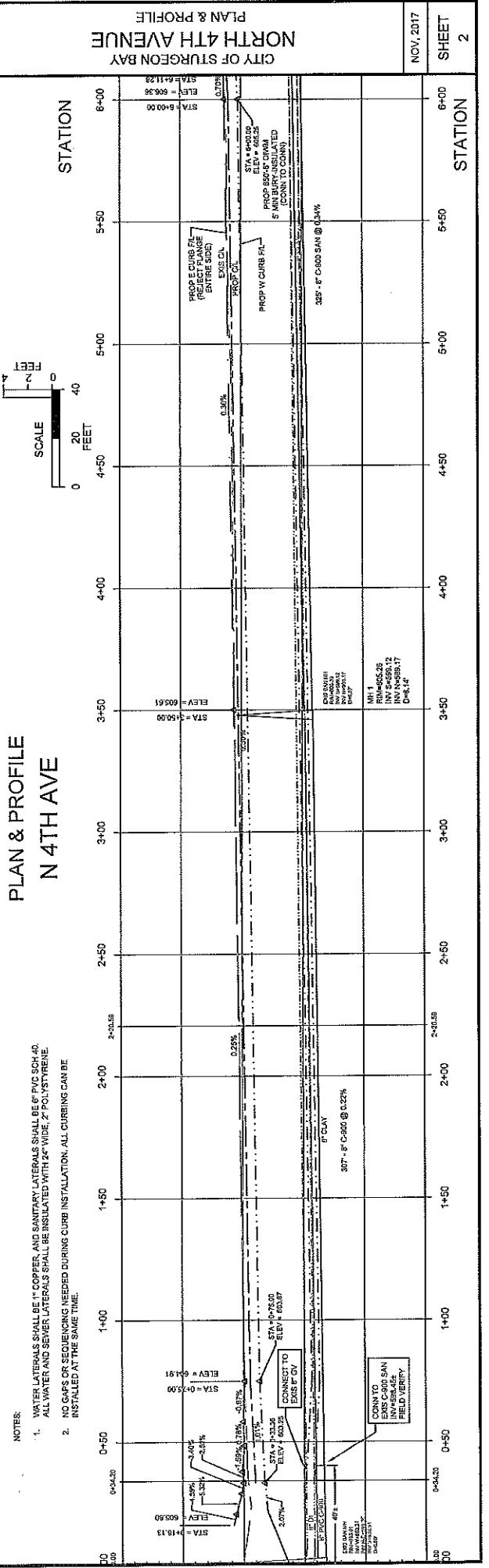
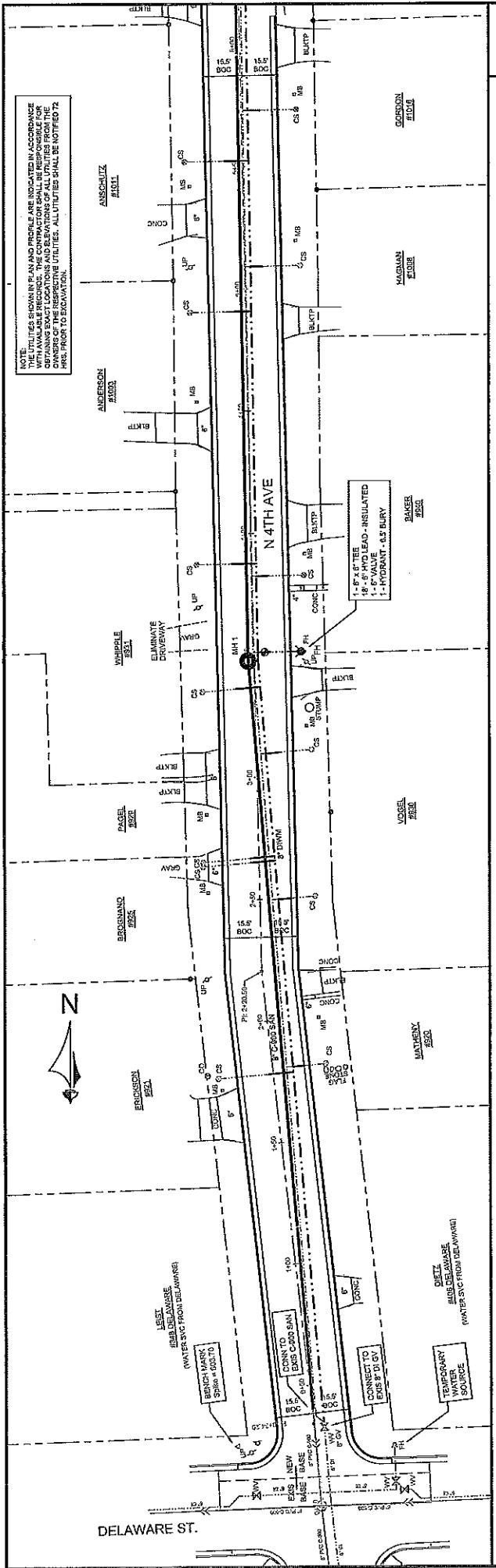
0 500 1,000 2,000 Feet

Legend**2018 5 Yr Capital Plan
YEAR OF PROPOSED WORK**

- 2018
- 2019
- 2020
- 2021
- 2022

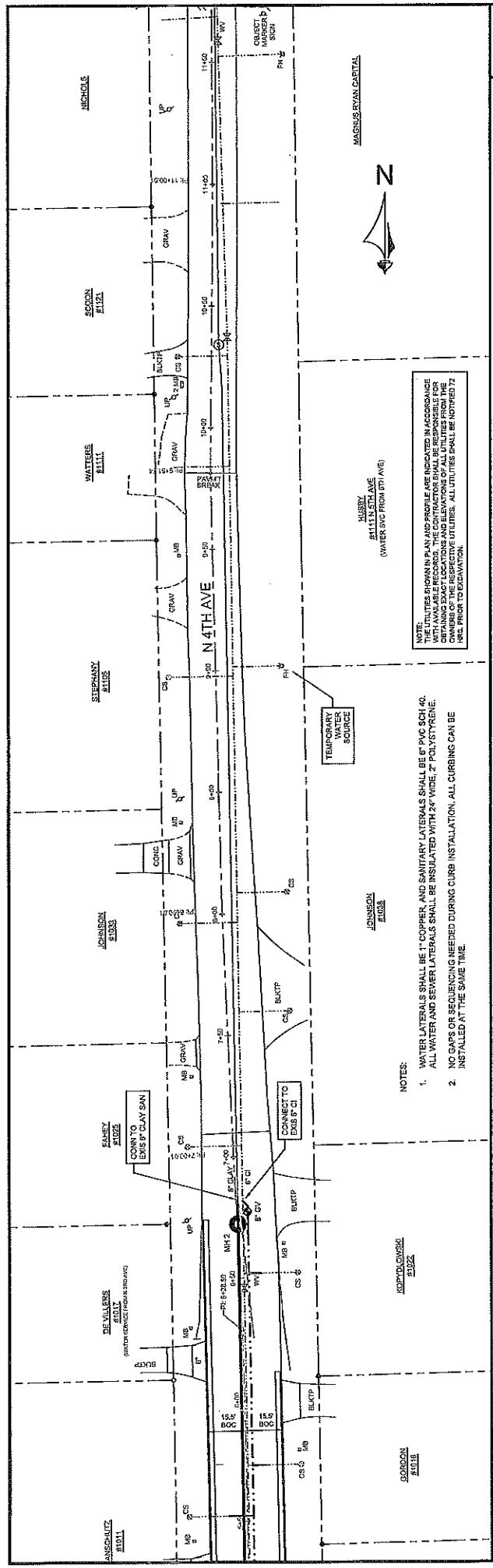
- 1989-2007
- 2008 - 2012
- 2013 - 2017
- PUBLIC STREET
- PRIVATE STREET



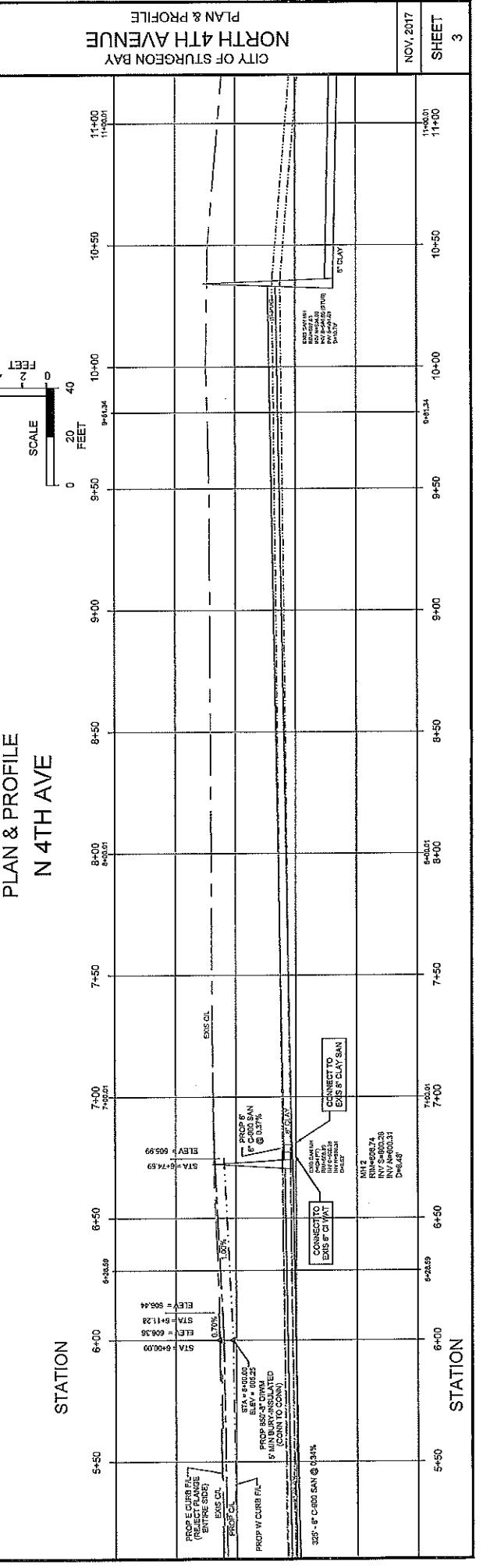


CITY OF STURGEON BAY
NORTH 4TH AVENUE

PLAN & PROFILE
NOV. 2017
SHEET 3



PLAN & PROFILE
N 4TH AVE



NORTH 4TH AVENUE

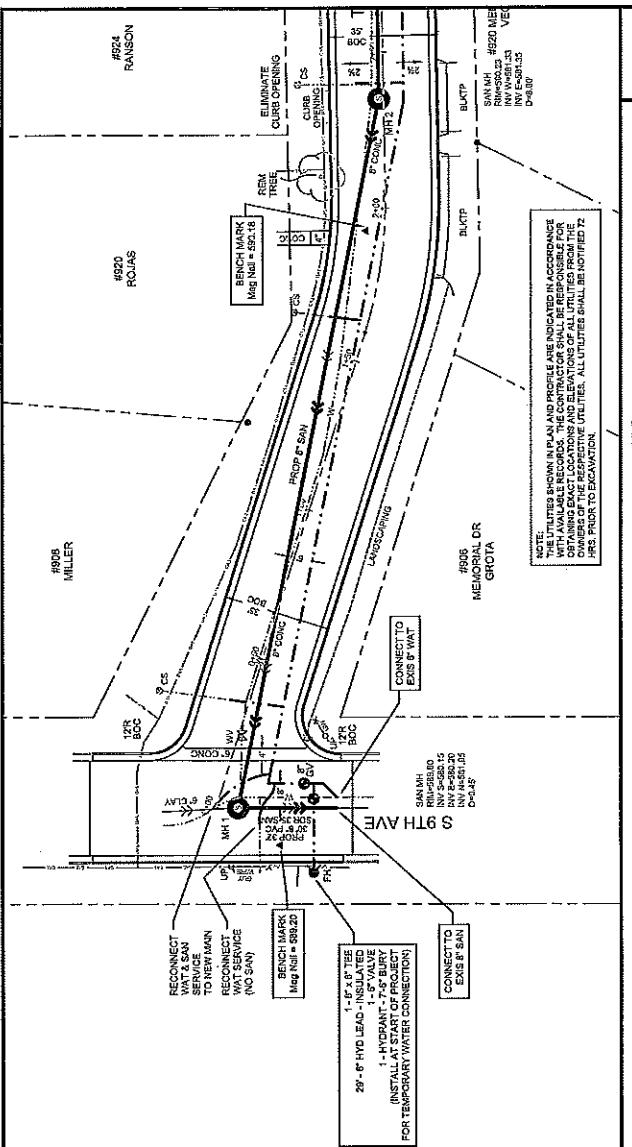
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PROP

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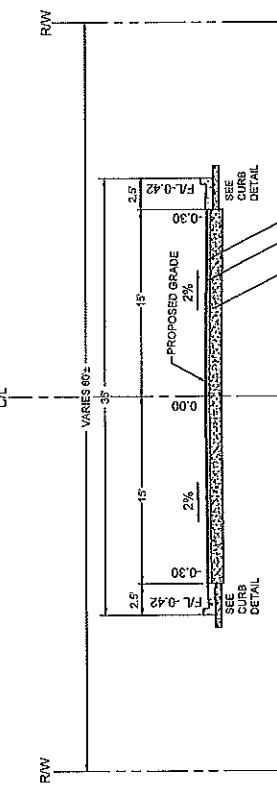
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PLAN & PROFILE
TEXAS ST

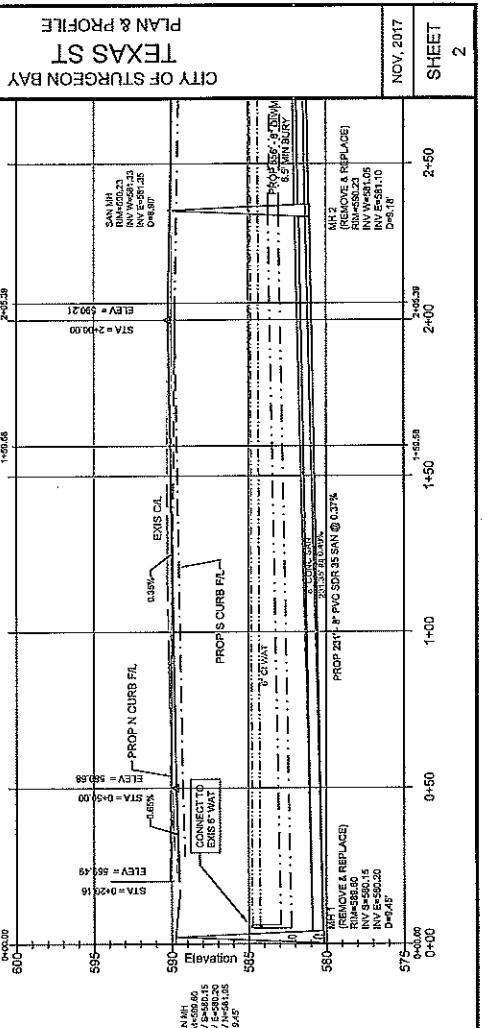
1. WATER LATERALS SHALL BE 1" COPPER, AND SANITARY LATERALS SHALL BE 6" PVC SCH 40. ALL WATER AND SEWER LATERALS SHALL BE INSULATED WITH 2" WOOL POLYSTYRENE.

2. NO GAPS OR SEQUENCING NEEDED DURING CURB INSTALLATION. ALL CURBING CAN BE INSTALLED AT THE SAME TIME.



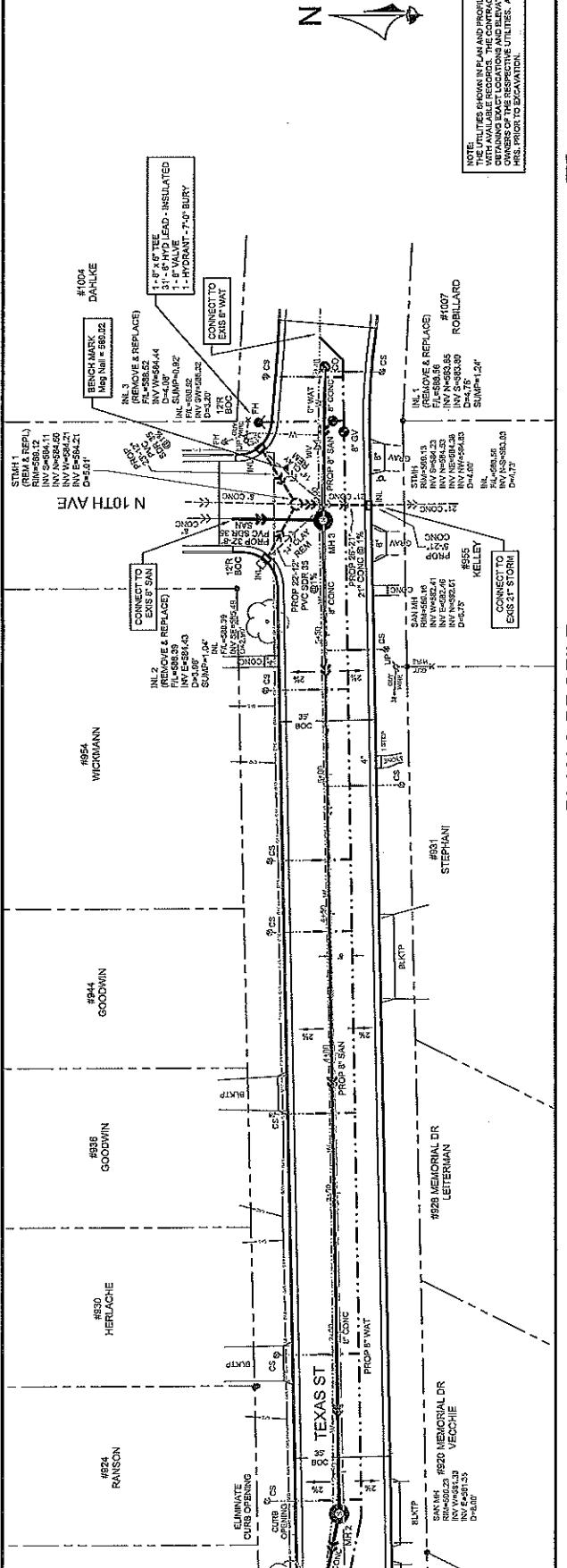
**PROPOSED
TYPICAL SECTION
2+00 TO 5+50**

NO SCALE
PROCTOR DENSITY PRIOR TO PLACEMENT OF
AGGREGATE. WHEN DIRECTED BY ENGINEER,
UNSTABLE SUBGRADE SOILS SHALL BE REMOVED
AND REPLACED W/ CRUSHED AGGREGATE OR
BREAKER RUN.



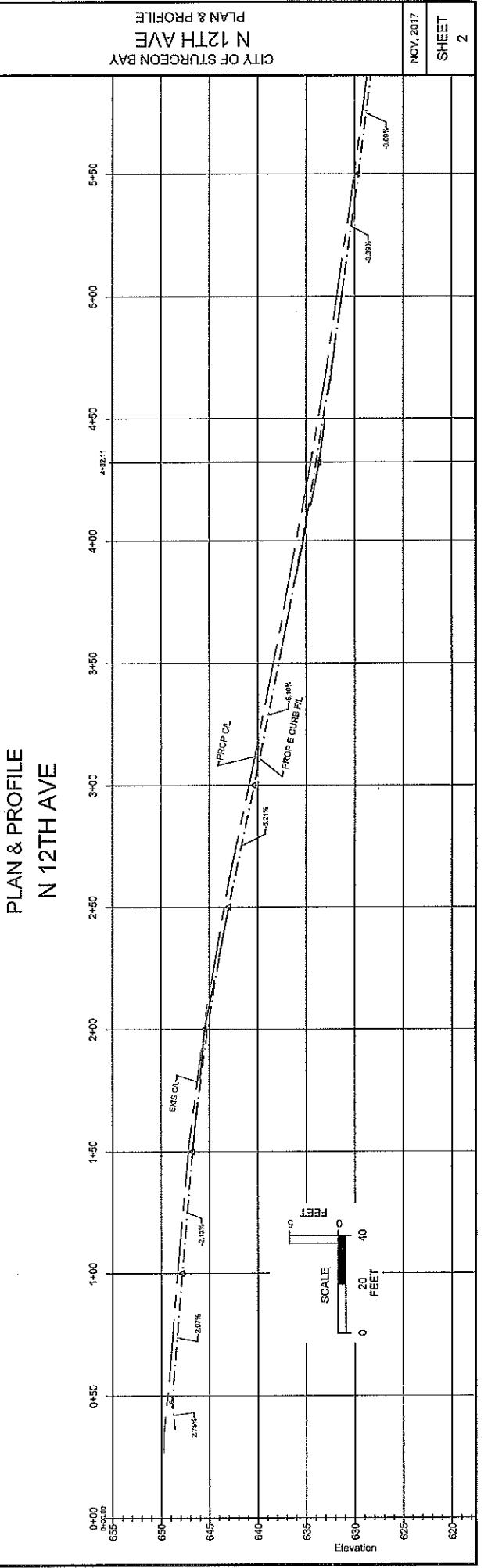
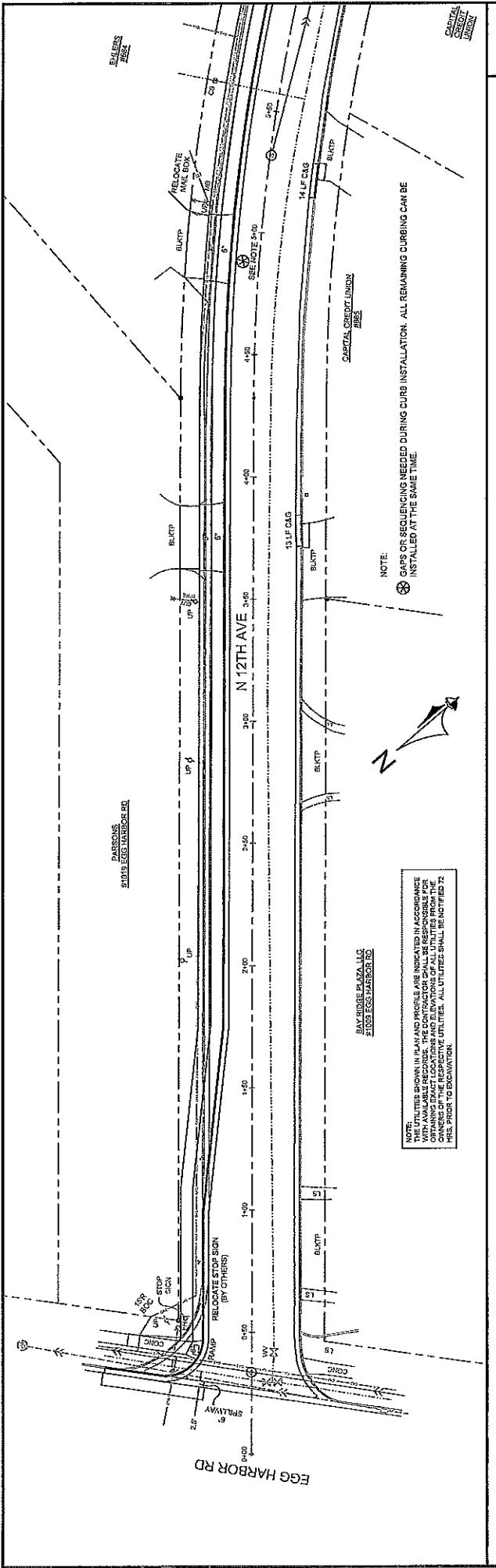
PLAN & PROFILE
TEXAS ST
CITY OF STURGEON BAY

SHEET 3



PLAN & PROFILE
TEXAS ST

1. WATER LATERALS SHALL BE 1" COPPER, AND SANITARY LATERALS SHALL BE 3/4" PVC SCH. 40. ALL WATER AND SEWER LATERALS SHALL BE INSULATED WITH 2"-WIDE, 2" POLYSTYRENE. NO GAPS OR SEQUENCING NEEDED DURING CURB INSTALLATION. ALL CURBING CAN BE INSTALLED AT THE SAME TIME.



CITY OF STURGEON BAY
N 12TH AVE

PLAN & PROFILE

NOV. 2017
SHEET
3

NOTE:
GAPS OR SEQUENCING NEEDED DURING CURB INSTALLATION. ALL REMAINING CURBING CAN BE
INSTALLED AT THE SAME TIME.

NOTE:
THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE
WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
COVERAGE OF THE RELOCATE COSTS AND REMOVING OF ALL UTILITIES THAT ARE NOT LISTED
HERE PRIOR TO EXCAVATION.

PLAN & PROFILE
N 12TH AVE

CAPITAL
CONSTRUCTION
COMPANY

CREW
SCHEDULE

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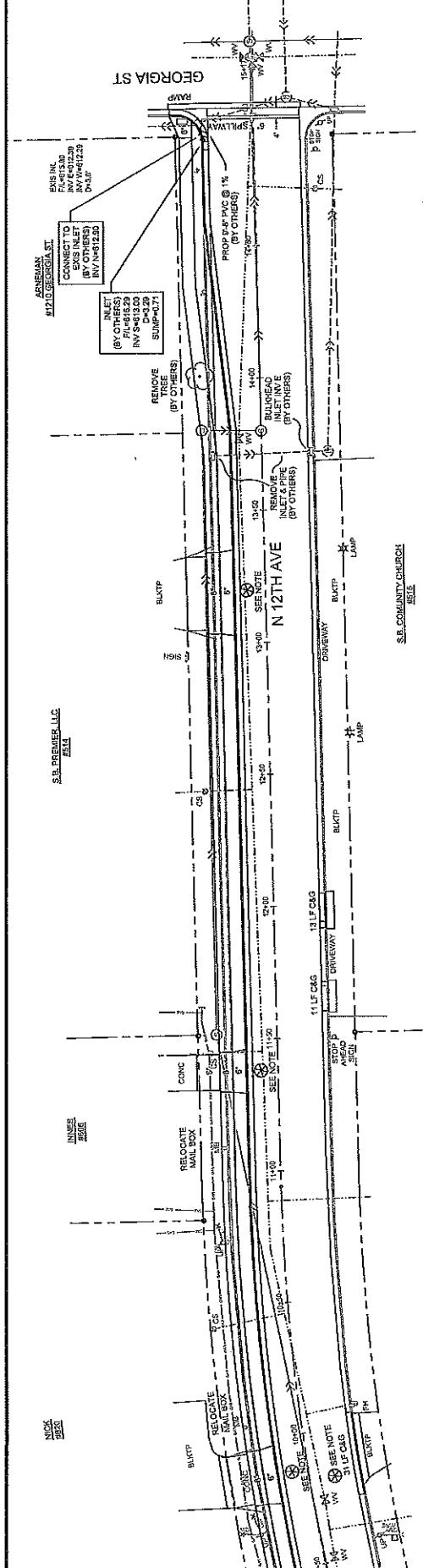
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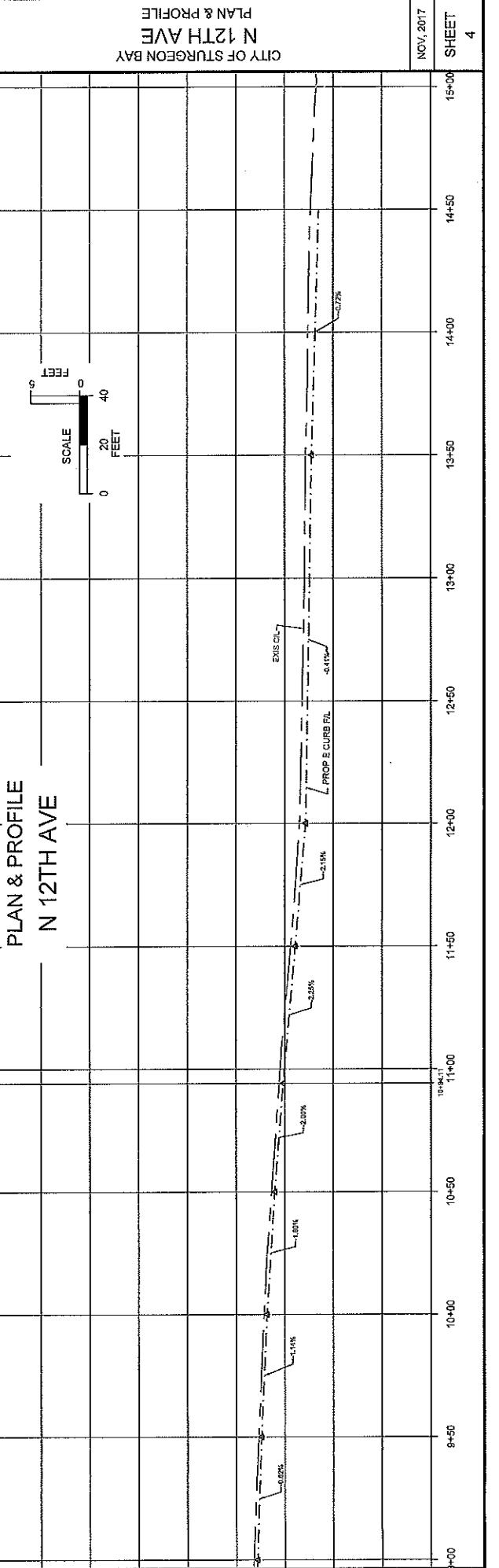
CITY OF STURGEON BAY
N 12TH AVE
PLAN & PROFILE

NOV, 2011
SHEET 4



NOTE: GAPS OR SEQUENCING NEEDED DURING CURB INSTALLATION. ALL REMAINING CURBING CAN BE INSTALLED AT THE SAME TIME.

NOTE: THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.



CITY OF STURGEON BAY

N 12TH AVE

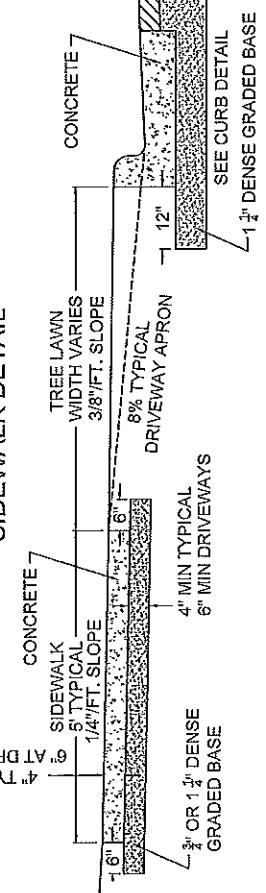
TYPICAL SECTION, CURB, SIDEWALK & DRIVEWAY DETAILS

NOV. 2017

SHEET 5

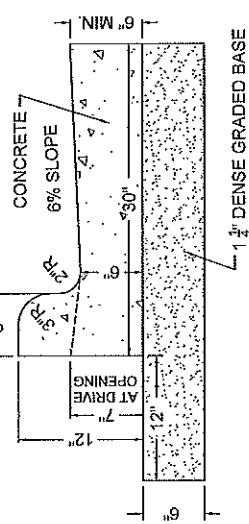
SIDEWALK DETAIL

4" AT DRIVEWAYS



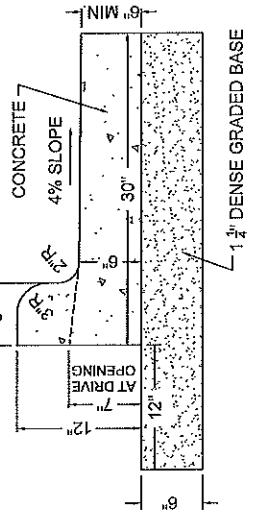
CURB DETAIL

NO SCALE



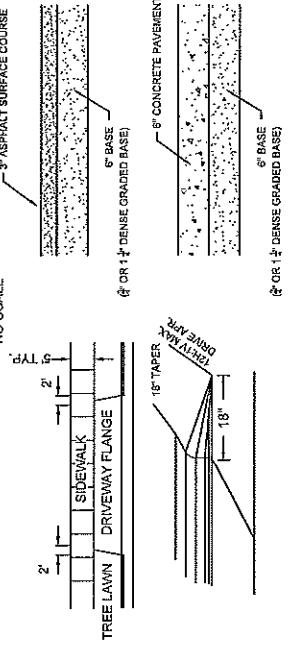
RECESS CURB DETAIL

NO SCALE



DRIVEWAY DETAILS

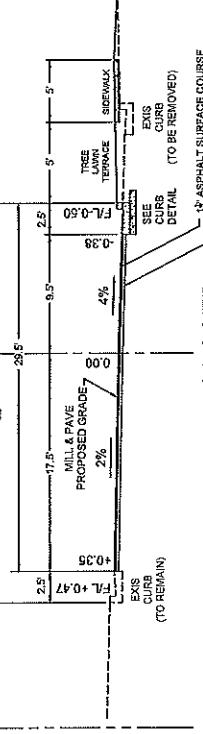
NO SCALE



ROW

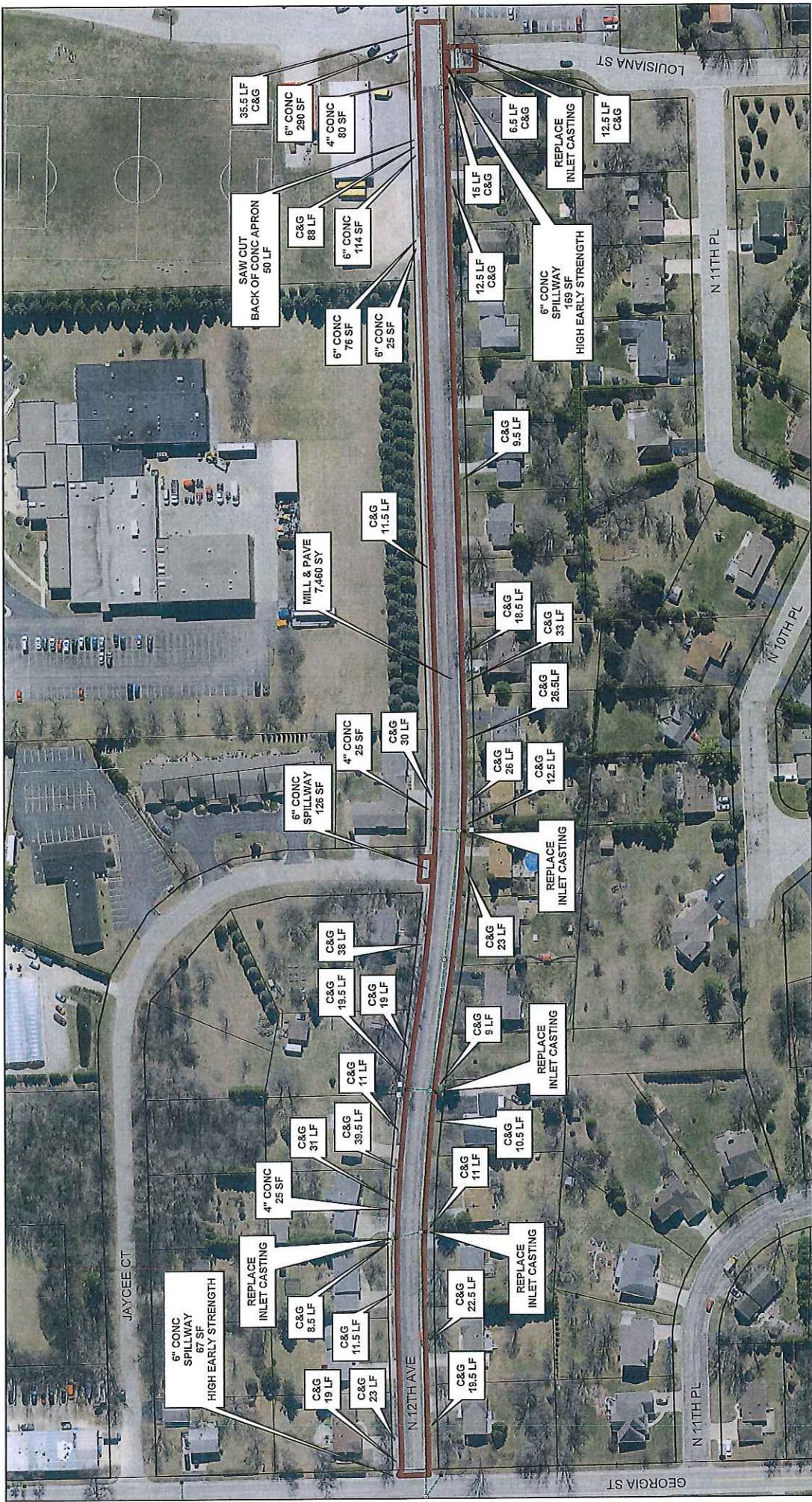
CLL

ROW

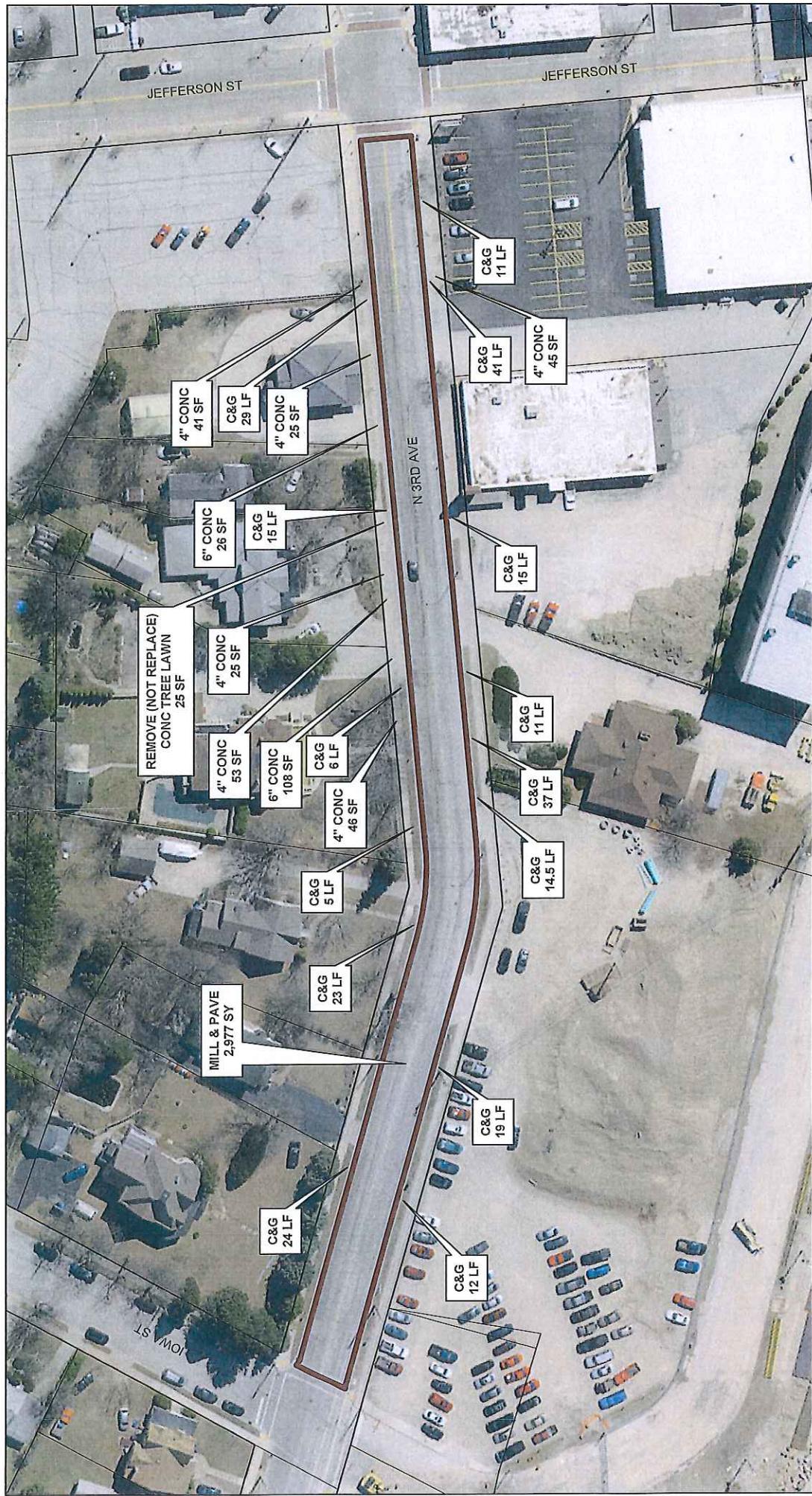


**PROPOSED
TYPICAL SECTION
0+50 TO 13+80**

NO SCALE

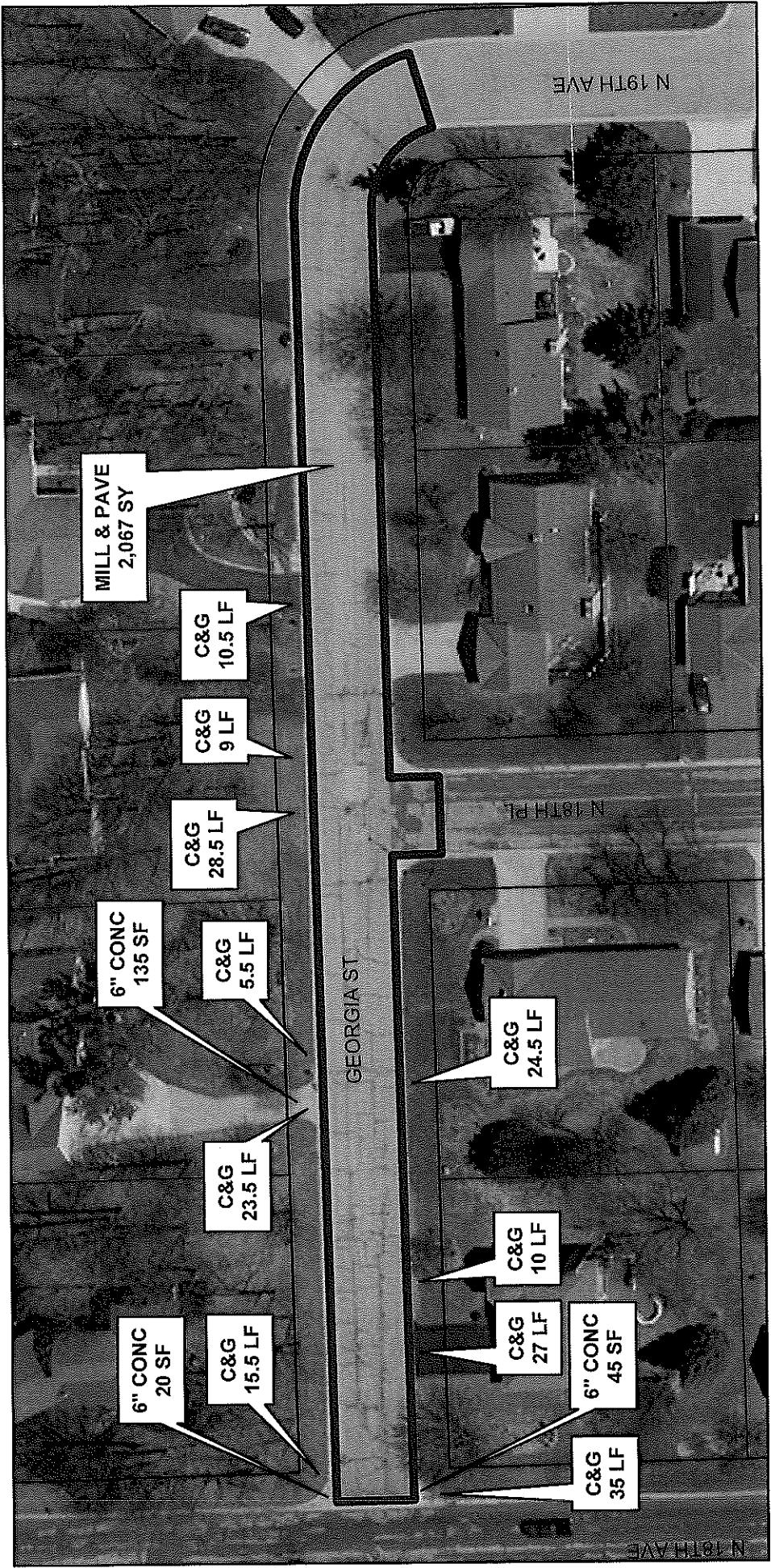


2018
N 12th Ave



2018
N 3rd Ave

0 30 60 120
Feet



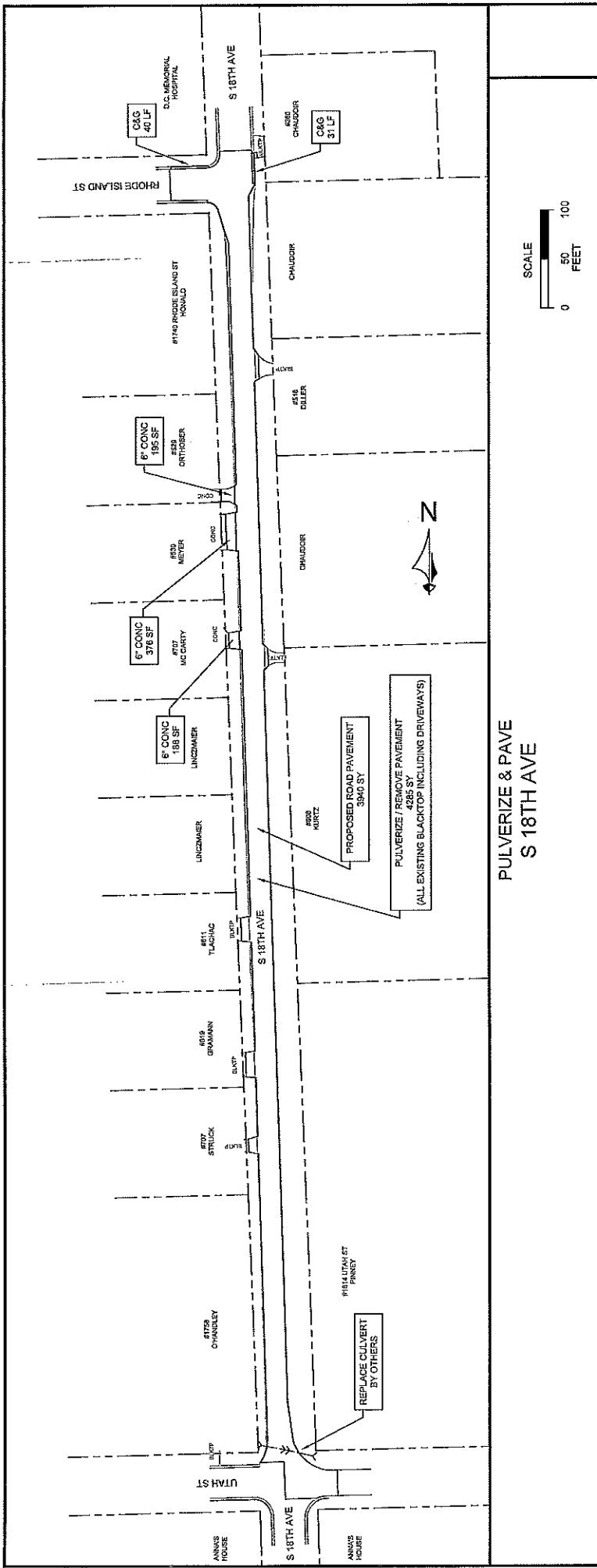
2018
Georgia St

0 30 60 Feet



CITY OF STURGEON BAY
S 18TH AVE
PULVERIZE & PAVE

SHEET
1 OF 1



CITY OF STURGEON BAY
MADISON AVE & PINE ST

STREET REPAIR

NOV. 2017
SHEET
1 OF 1

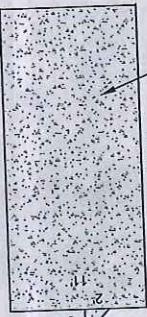
SITE PLAN

N

SCALE
0 5 10
FEET

NOTE:
8 $\frac{1}{2}$ " CONCRETE PAVEMENT TO BE DOWELED.
8 $\frac{1}{2}$ " TRANSVERSE JOINTS TO BE 1 $\frac{1}{4}$ " SMOOTH BARS, 18" LONG,
PLACED 12" ON CENTER, LONGITUDINAL JOINTS TO BE #6
BARS, 15" LONG, PLACED 32" ON CENTER.

24.25'



8 $\frac{1}{2}$ " CONC
267 SF

MADISON AVE

24.25'

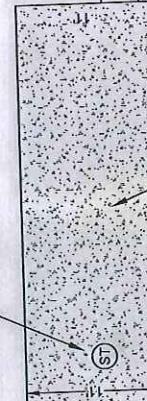
8 $\frac{1}{2}$ " CONC
2 SF

PINE ST

ADJUST
MANHOLE

C&G
13.5 LF

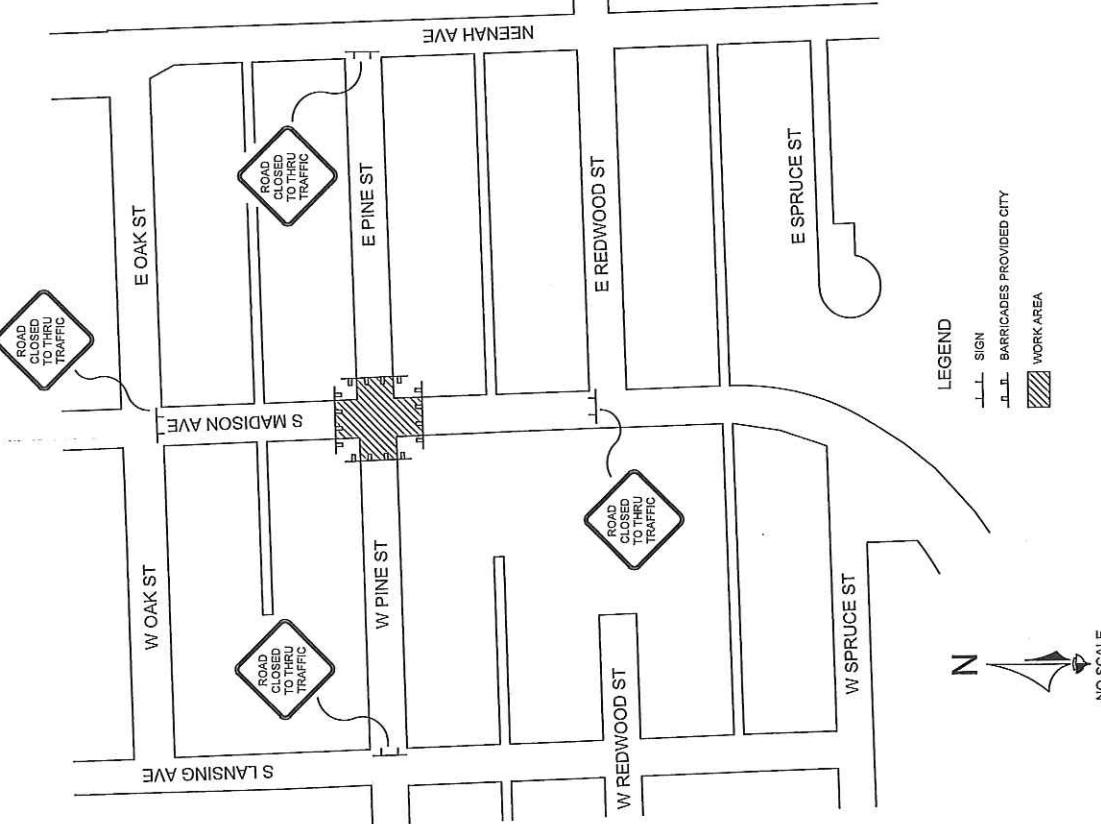
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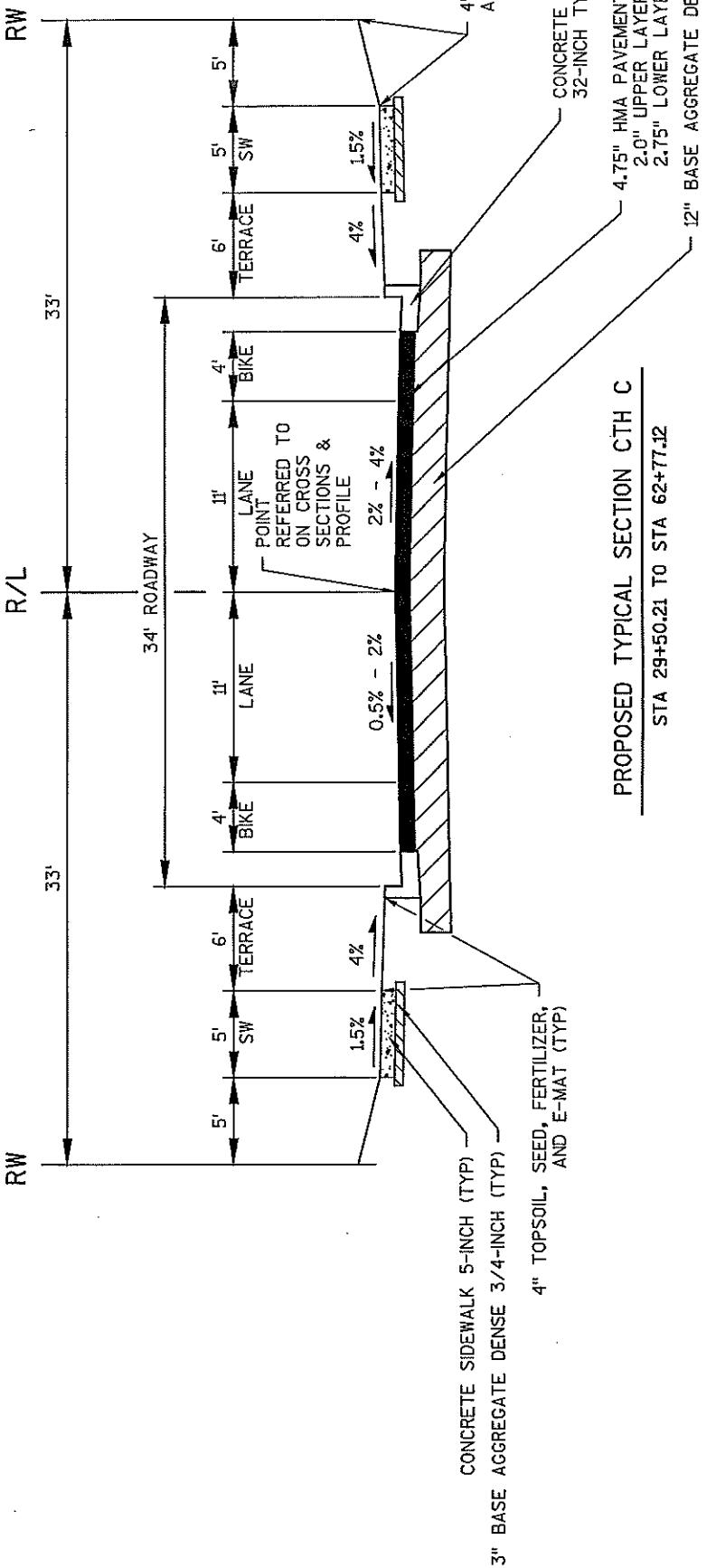


8 $\frac{1}{2}$ " CONC
365 SF

REPLACE
INLET
CASTING

4" CONC
72.5 SF





2018
HICKORY ST
MILL & PAVE

CITY OF STURGEON BAY
HICKORY ST
MILL & PAVE

NOV. 2017
SHEET
1 OF 1

