#### Owner

FERRY STREET VENTURES, LLC 1520 NORTH JOHNSON STREET ARLINGTON, VA 22201 CONTACT: MR. EDMUND J. FISH

EMAIL: FISH.EDMUNDJ@GMAIL.COM

#### **Architect**

DS ARCHITECTS, INC 7300 DIXIE HIGHWAY SUITE 600 CLARKSTON, MI 48346 CONTACT: MR. DEREK SLUPKA, AIA, LEED, AP

PHONE: (248)605-2030 EMAIL: DEREK@DSARCHITECTS.COM

### Civil Engineer

**NOWAK & FRAUS ENGINEERS** 46777 WOODWARD AVENUE PONTIAC, MICHIGAN 48342 CONTACT:

MR. JASON R. LONGHURST, P.E. PHONE: (248) 332-7931

EMAIL: JLONGHURST@NFE-ENGR.COM

#### Landscape Architect

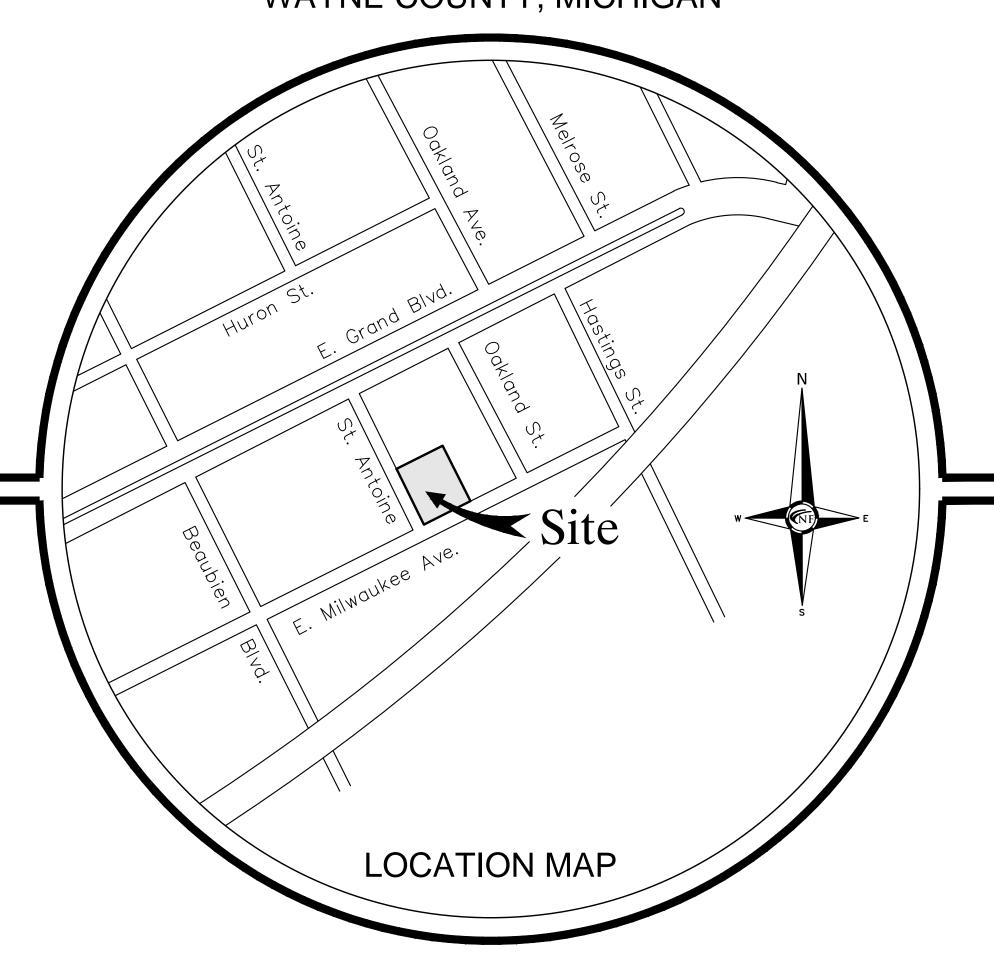
NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVENUE PONTIAC, MICHIGAN 48342 CONTACT: MR. GEORGE OSTROWSKI

PHONE: (248) 332-7931

EMAIL: GOSTROWSI@NFE-ENGR.COM

## City of Detroit, Wayne County, Michigan CONSTRUCTION DOCUMENTS Prepared For Ferry Street Ventures, LLC

PART OF THE NE 1/4 OF SECTION 31, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN



#### SHEET INDEX

- Boundary and Topographic Survey
- **Demolition Plan**
- **Engineering Plan**
- Storm Profile
- Soil Erosion Control and Drainage Area Plan
- Notes and Details
- Notes and Details

**REVISIONS:** 

- Notes and Details
- L1 Landscape Plan

2021-12-03 ISSUED FOR OWNER REVIEW

2022-08-18 REVISED PER ROW REVIEW

2022-11-30 REVISED PER CITY REVIEW

2023-09-11 REVISED REPLOWNER 2023-09-28 REVISED PER OWNER

2022-05-11 REVISED PER OWNER

#### LEGAL DESCRIPTION

03001776

603 E MILWAUKEE AVE

LOTS 1 AND 2, SUB OF LOTS 88-95, FRISBIE AND FOXEN'S SUB, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN, AS RECORDED IN LIBER 8, PAGE 78 OF PLATS, WAYNE COUNTY RECORDS.

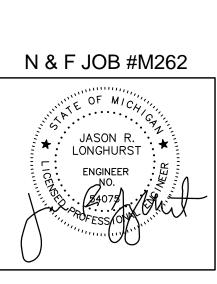
PARCEL 2 03001777 609 E MILWAUKEE AVE

LOT 3, ALSO THE WEST 10' OF LOT 4, SUB OF LOTS 88-95, FRISBIE AND FOXEN'S SUB, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN, AS RECORDED IN LIBER 8, PAGE 78 OF PLATS, WAYNE COUNTY RECORDS.

Project Name

# 603 E MILWAUKEE AVE DETROIT MI.

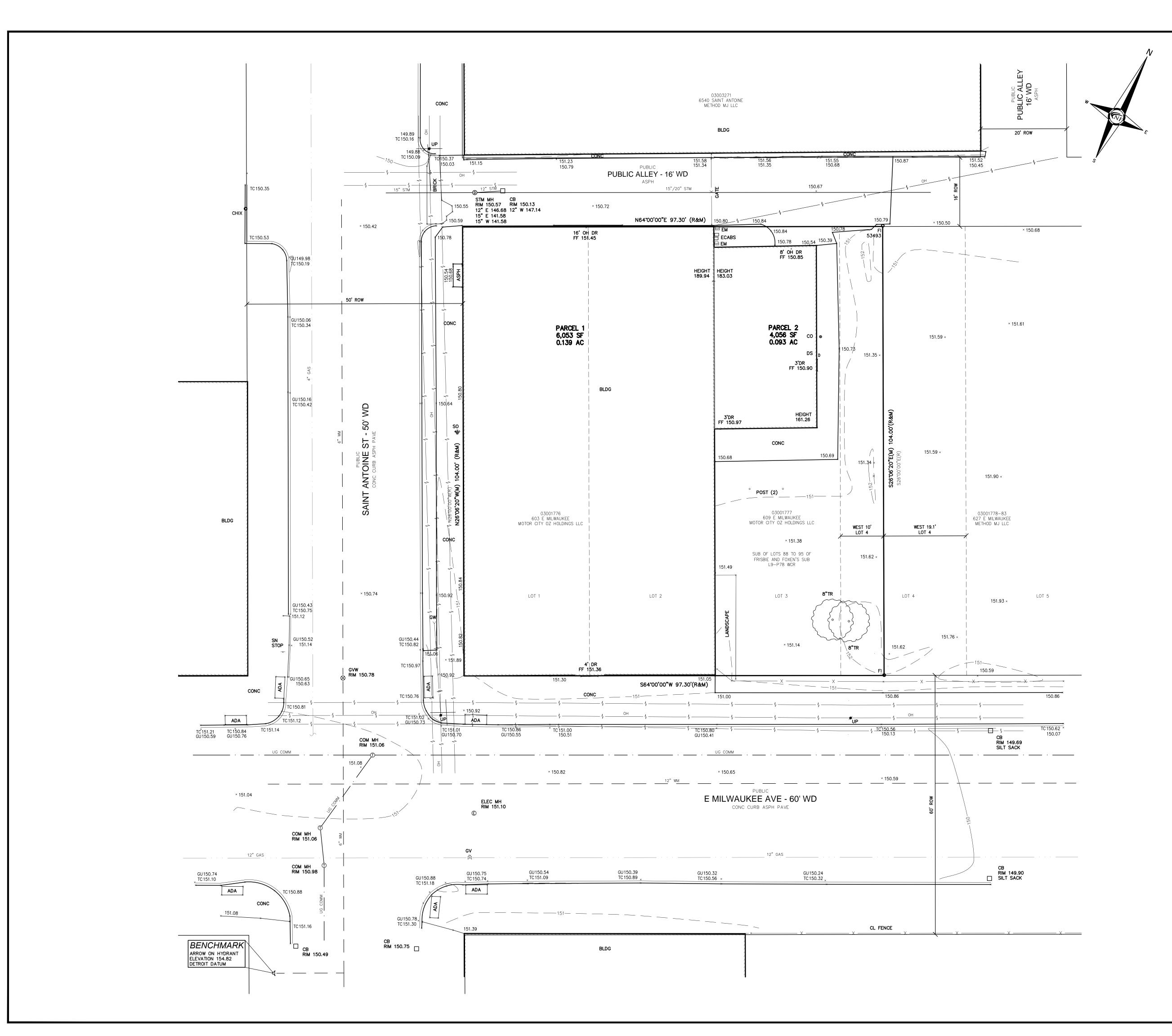


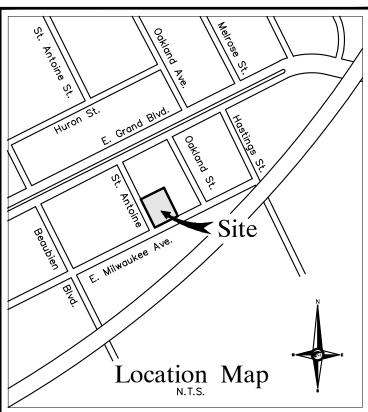


**ENGINEERS** 

**CIVIL ENGINEERS** LAND SURVEYORS LAND PLANNERS

**NOWAK & FRAUS ENGINEERS** 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

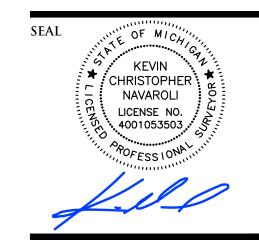






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LAND PLANNERS



PROJECT 603 E Milwaukee Ave Detroit, Michigan

CLIENT

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

#### LEGAL DESCRIPTION

PARCEL 1 03001776 603 E MILWAUKEE AVE

LOTS 1 AND 2, SUB OF LOTS 88-95, FRISBIE AND FOXEN'S SUB, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN, AS RECORDED IN LIBER 8, PAGE

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SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED. Boundary and UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

**COVID-19 PANDEMIC CONDITION** 

DUE TO THE UNPRECEDENTED COVID—19 PANDEMIC CONDITION AND RESTRICTIONS THE STANDARD DATA WHICH IS OBTAINED FROM MISS DIG / CALL 811 HAS BEEN RESTRICTED TO CRITICAL INFRASTRUCTURE ONLY. NFE WILL MAKE EVERY EFFORT TO OBTAIN CURRENT REFERENCE DATA FROM THE GOVERNING AGENCIES; HOWEVER, THIS DATA MAY BE PARTIAL OR INCOMPLETE. NFE WILL ISSUE THIS SURVEY WITH THE BEST AVAILABLE INFORMATION FROM OUR FIELD SURVEY AND OTHER AVAILABLE REFERENCE DATA. NFE WILL NOT BE RESPONSIBLE FOR INCOMPLETE OR PARTIAL DATA PROVIDED BY THIRD PARTY FACILITY

ALL SURVEYS BEING UTILIZED FOR DESIGN PURPOSES BY OTHERS; IT WILL BE THE CLIENT'S OBLIGATION TO UPDATE THE UTILITY INFORMATION AS IT BECOMES AVAILABLE. NFE IS NOT RESPONSIBLE FOR BURIED UTILITIES FOR WHICH PLANS WERE NOT FURNISHED OR CANNOT BE

#### MISS DIG / UTILITY DISCLAIMER NOTE

A MISS DIG TICKET NUMBER A093430171, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY. DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS, THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON 2-24-21. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DEPICTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATION.

#### DTE DISCLAIMER NOTE

PLEASE NOTE THAT DTE HAS NEW REGULATIONS THAT MAY IMPACT DEVELOPMENT OUTSIDE THEIR EASEMENT OR THE PUBLIC RIGHT OF WAY. CLIENT SHALL CONTACT DTE TO DETERMINE THE "NEW STRUCTURES AND POWER LINE" REQUIREMENTS AS THEY MAY APPLY TO ANY FUTURE BUILDING OR RENOVATION OF A STRUCTURE. DTE ENERGY CAN BE

CONTACTED AT 800-477-4747.					
LEGEND					
MANHOLE S	EXISTING SANITARY SEWER				
——————————————————————————————————————	EXISTING SAN. CLEAN OUT				
MANHOLE CATCH BASIN  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	EXISTING WATER MAIN				
	EXISTING STORM SEWER				
X	EX. R.Y. CATCH BASIN				
UTILITY POLE GUY POLE  GUY VWIRE	EXISTING BURIED CABLES				
	OVERHEAD LINES				
禁	LIGHT POLE	1			
ď	SIGN				
· · · ·	EXISTING GAS MAIN				

Part of the Northeast  $\frac{1}{4}$ 

of Section 31 Town 1 South, Range 12 City of Detroit,

Wayne County, Michigan

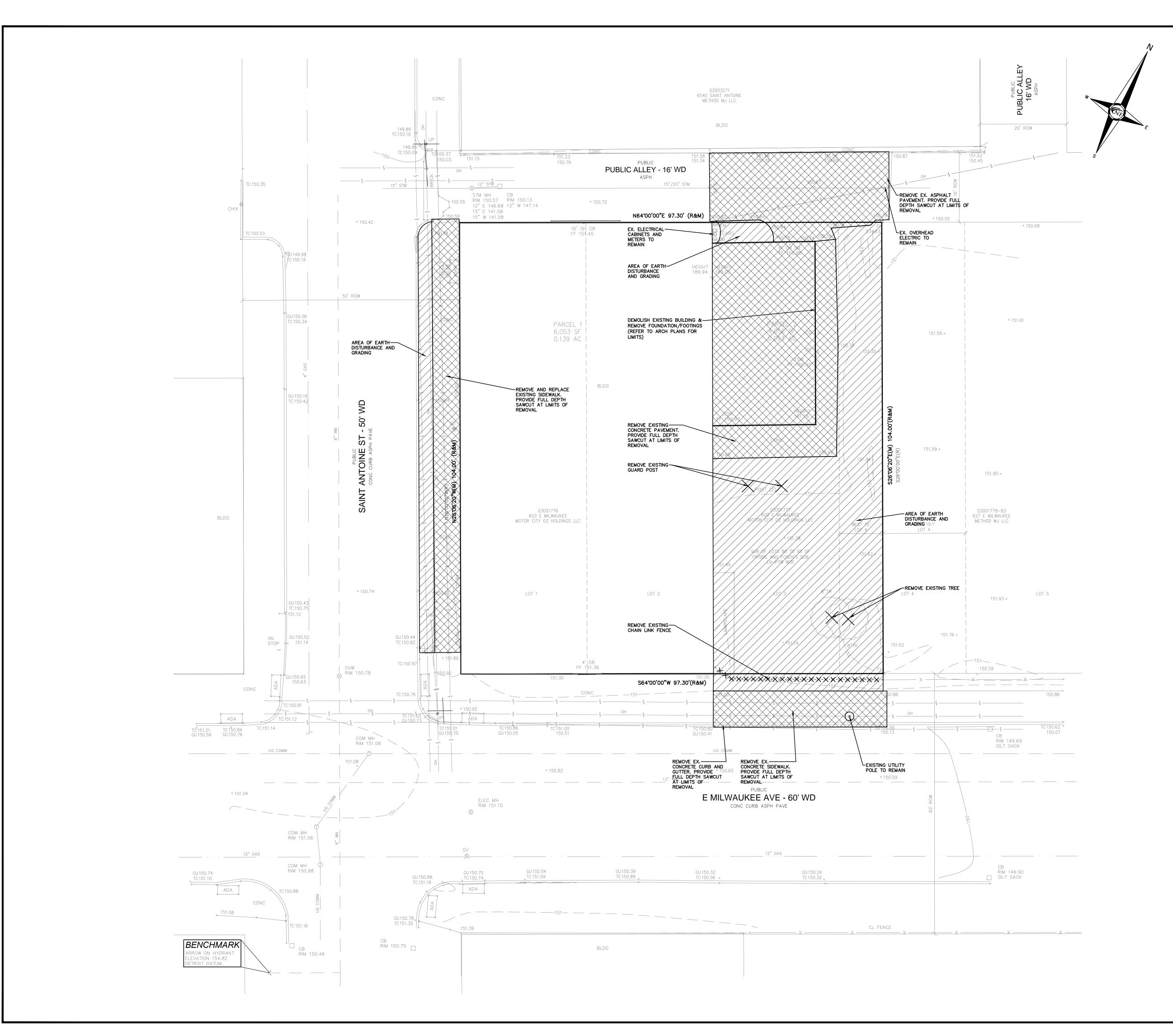


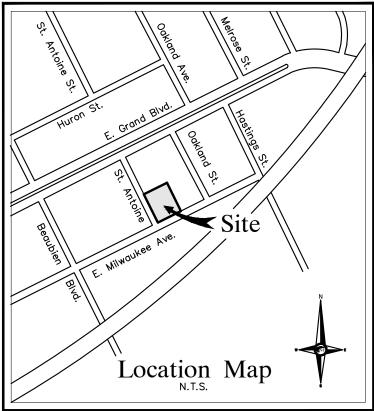
DATE	ISSUED/REVISED	
021-12-03	ISSUED FOR OWNER REVIEW	
022-05-11	REVISED PER OWNER	
022-08-18	REVISED PER ROW REVIEW	
022-08-25	REVISED PER ROW REVIEW	
022-09-27	REVISED PER ROW REVIEW	
022-10-25	REVISED PER CITY REVIEW	
022-10-26	REVISED PER OWNER	
022-11-08	REVISED PER CITY REVIEW	
022-11-30	REVISED PER CITY REVIEW	
023-08-07	7 REVISED PER OWNER	

D 2023-09-11 REVISED PER OWNER 2023-09-28 REVISED PER OWNER

CAN BE	2023-09-28 REVISED PER OWNER			
	DRAWN BY:			
	J. Nelson			
DEWED.	DESIGNED BY:			
SEWER	J. Nelson			
N OUT	APPROVED BY:			
N	J. Longhurst			
ÆR	DATE:			
N	December 1, 2021			
BLES				
	SCALE: $1'' = 10'$			
	10 5 0 5			
	NFE JOB NO.			

1'' = 10'SHEET NO.





#### **DEMOLITION NOTES**

DEMOLITION OF SITE IMPROVEMENTS SHALL BE ALLOWED ONLY AFTER

FOR ANY DEMOLITION WITHIN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR, AND SECURE, ALL NECESSARY PERMITS

SITE DEMOLITION INCLUDES THE COMPLETE REMOVAL OF SITE IMPROVEMENTS AND OFF-SITE DISPOSAL. DEBRIS SHALL BE TRANSPORTED TO AN APPROPRIATE DISPOSAL FACILITY THAT IS

THE CONTRACTOR SHALL COORDINATE TRUCK ROUTES WITH THE MUNICIPALITY PRIOR TO COMMENCEMENT OF SITE DEMOLITION. ALL TRUCKS SHALL BE TARPED OR PROPERLY SECURED TO CONTAIN DEMOLITION DEBRIS PRIOR TO LEAVING SITE.

EXISTING ON—SITE UNDERGROUND UTILITIES AND BUILDING SERVICES HAVE BEEN INDICATED BASED UPON THE BEST AVAILABLE UTILITY THE DESIGN ENGINEER. AS TO THE COMPLETENESS OR ACCURACY OF NO GUARANTEE NOR ASSUMES ANY LIABILITY AS TO THE

MUST DETERMINE IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE. IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE/ACTIVE THE CONTRACTOR MUST TAKE ALL THE NECESSARY STEPS TO GUARANTEE THAT THE UTILITY LINE OR BUILDING SERVICE IS RECONNECTED WITHOUT AN INTERRUPTION IN SERVICE. THE RECONNECTION OF THE UTILITY LINE OR BUILDING SERVICE MUST BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO SITE DEMOLITION. \* THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-482-7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF THE

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SÉRVICES WITH UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES ELECTRICAL SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANY GAS SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH

THE APPROPRIATE CABLE MEDIA COMPANY. REMOVAL OF CABLE SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE CABLE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT

ALL UTILITY METERS SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY. ANY ON-SITE STORM SEWER FACILITIES LOCATED DURING DEMOLITION

SHALL BE REMOVED AND BULK HEADED AT THE PROPERTY LINE IF

IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUSPICIOUS MATERIAL

OWNER'S REPRESENTATION. WHERE EXISTING BUILDINGS PLANED FOR DEMOLITION FALL WITHIN

LEGEND

HYDRANT

MANHOLE

MANHOLE CATCH BASIN

UTILITY POLE GUY POLE

12" MAPLE

AN APPROVED PERMIT HAS BEEN SECURED FROM THE PUBLIC AGENCY HAVING JURISDICTION OVER SAID DEMOLITION.

AND LIKEWISE SHALL ARRANGE FOR ALL SITE INSPECTIONS.

LICENSED FOR THAT TYPE OF DEBRIS.

RECORDS AND OR ON-SITE INSPECTION. NO GUARANTEE IS MADE BY UTILITY DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY INFORMATION (THE DESIGN ENGINEER MAKES COMPLETENESS AND/OR ACCURACY OF UTILITY DATA).

PRIOR TO THE REMOVAL OR ABANDONMENT OF ANY EXISTING UNDERGROUND UTILITY OR BUILDING SERVICE LINES CALLED FOR IN THE PLANS OR DISCOVERED DURING EXCAVATION, THE CONTRACTOR APPROPRIATE GOVERNMENTAL AGENCY OR PRIVATE UTILITY COMPANY.

SITE DEMOLITION.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH

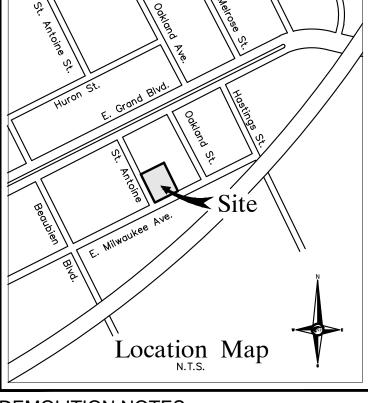
THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES COMMUNICATION SERVICES SHALL BE IN ACCORDANCE WITH THE

OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR

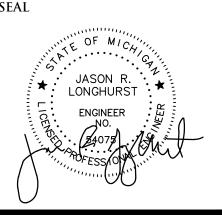
INDICATED FOR REMOVAL ON THE PLANS. PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL

WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BULK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE

PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MOOT CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM







**ENGINEERS** 

CIVIL ENGINEERS

LAND SURVEYORS LAND PLANNERS

**NOWAK & FRAUS ENGINEERS** 

46777 WOODWARD AVE.

PONTIAC, MI 48342-5032

TEL. (248) 332-7931

FAX. (248) 332-8257

PROJECT

603 E Milwaukee Ave Detroit, Michigan

#### CLIENT

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

PROJECT LOCATION

Part of the Northeast  $\frac{1}{4}$ of Section 31 Town 1 South, Range 12

City of Detroit,

Wayne County, Michigan

SHEET

Demolition Plan

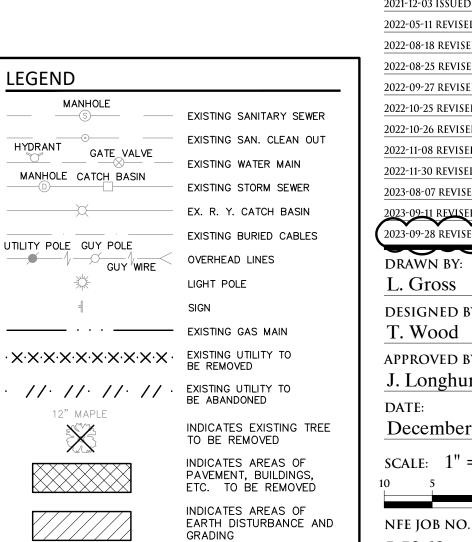


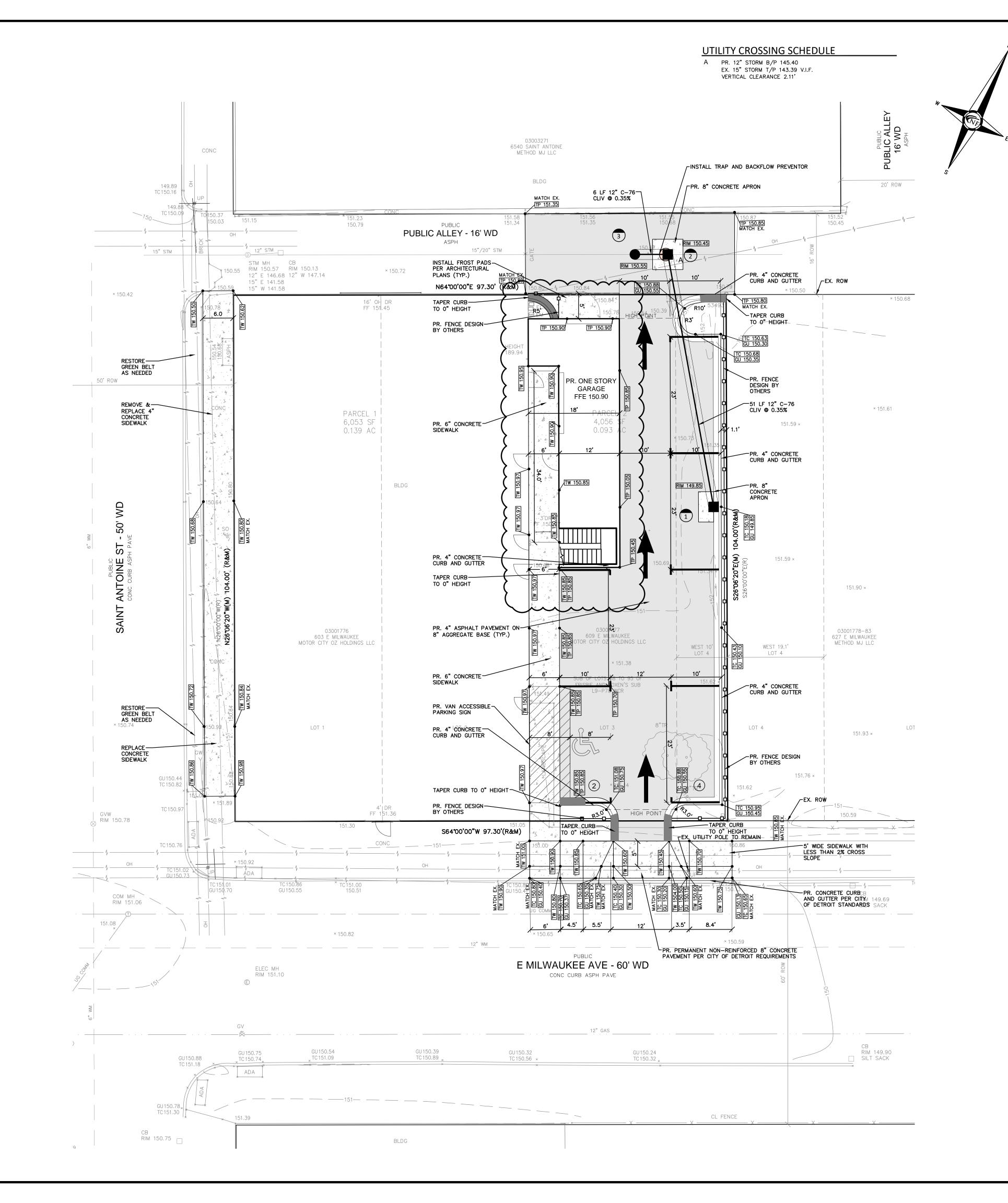
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SHEET NO.

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	2022-05-11 REVISED PER OWNER				
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Y SEWER	2022-10-25 REVISED PER CITY REVIEW				
	2022-10-26 REVISED PER OWNER				
EAN OUT	2022-11-08 REVISED PER CITY REVIEW				
IAIN	2022-11-30 REVISED PER CITY REVIEW				
SEWER	2023-08-07 REVISED PER OWNER				
BASIN	2023-09-11 revised per owner				
CABLES	2023-09-28 REVISED PER OWNER				
	DRAWN BY:				
	drawn by: L. Gross				
N	L. Gross				
N TO	L. Gross  DESIGNED BY:				
го	L. Gross  DESIGNED BY: T. Wood  APPROVED BY:				
	L. Gross  DESIGNED BY: T. Wood  APPROVED BY: J. Longhurst				
ro -o	L. Gross  DESIGNED BY: T. Wood  APPROVED BY: J. Longhurst  DATE:				
го	L. Gross  DESIGNED BY: T. Wood  APPROVED BY: J. Longhurst				
TO  NG TREE  S OF	L. Gross  DESIGNED BY: T. Wood  APPROVED BY: J. Longhurst  DATE:				
TO TO NG TREE	L. Gross  DESIGNED BY: T. Wood  APPROVED BY: J. Longhurst  DATE: December 1, 2021				

DATE





FENCING AND LANDSCAPING

UTILITY CROSSING NOTE

IN SEPARATE TRENCHES.

NOTES

FENCING AND LANDSCAPING WILL BE PART OF A DEFERRED SUBMITTAL.

RESTORE DAMAGED PUBLIC SIDEWALKS ADJACENT TO THE PROPERTY PER DETAIL C-4462 AS DIRECTED BY THE CITY INSPECTOR.

ROW SIDEWALK REPLACEMENT NOTE

THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT

OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE

CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

THE DESIGN WORKMANSHIP AND CONSTRUCTION MATERIALS SHALL BE IN GENERAL CONFORMANCE WITH THE CITY OF DETROIT WATER AND SEWAGE DEPARTMENT STORMWATER MANAGEMENT DESIGN MANUAL, LATEST ADDITION.

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC

BASE COURSE - MDOT HMA 4E1, 20AA;

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT

IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE

CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993,

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED

FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL

CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL

BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT

ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT

(MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE

PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE

AND LIKEWISE ARRANGE FOR ALL INSPECTION.

PLACEMENT OF BASE MATERIALS.

INTERSECTION RADII.

POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND

SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

SHALL BE INSTALLED AS INDICATED ON THE PLANS.

YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF

SURFACE COURSE - MDOT HMA 5E1, 20AA; ASPHALT CEMENT PENETRATION GRADE 58-22, BOND

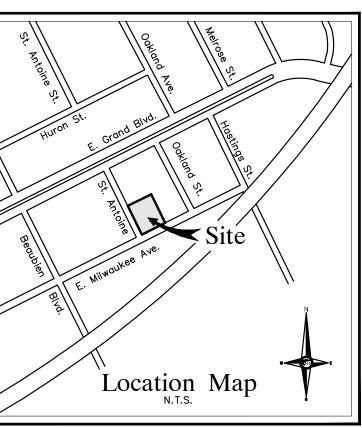
COAT - MDOT SS-1H EMULSION AT 0.10 GALLON PER

3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT.

GENERAL PAVING NOTES

AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED





NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

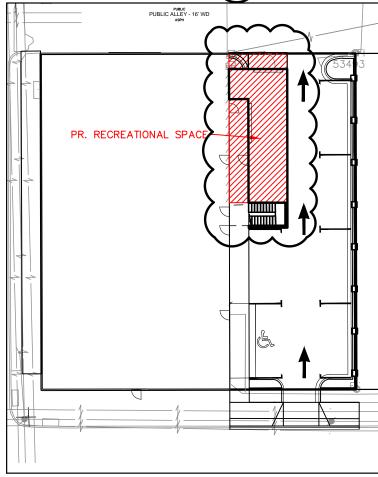
WWW.NOWAKFRAUS.COM

LAND SURVEYORS

LAND PLANNERS

RECREATIONAL SPACE FIRST FLOOR IS A 6,023 S.F. MULTIFAMILY RESIDENTIAL

SECOND FLOOR IS A 5,732 S.F. SINGLE FAMILY RESIDENTIAL TOTAL SQUARE FOOTAGE IS 6,023 + 5,732 = 11,755 S.F. REQUIRED RECREATIONAL SPACE AREA IS 0.07 \* 11,755 S.F. = 823 S.F. PROVIDED RECREATIONAL SPACE AREA IS 835 SF



RECREATIONAL SPACE RATIO EXHIBIT

600

QUANTITY

PROPOSED CONCRETE PAVEMENT

PROPOSED ASPHALT PAVEMENT

S.F.

S.Y.

EA.

EA.

SCALE 1"=30'

PAVING

**ESTIMATED QUANTITIES** 

DESCRIPTION

8" NON-REINFORCED CONCRETE ROW PAVEMENT

4" ASPHALT ON 8" 21AA BASE

4" CONCRETE CURB & GUTTER

DESCRIPTION

12" DIA. CLIV C-76 STORM SEWER PIPE

2' DIA. CATCH BASIN (CATCH BASIN A)

BUILD 4' DIA. MANHOLE OVER EX. PIPE

PAVING LEGEND

4' DIA. CATCH BASIN WITH TRAP AND 2' SUMP

4" CONCRETE SIDEWALK

6" CONCRETE SIDEWALK

8" CONCRETE APRON

(CATCH BASIN B)

## PROJECT 603 E Milwaukee Ave Detroit, Michigan

JASON R. LONGHURST

SEAL

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

PROJECT LOCATION Part of the Northeast  $\frac{1}{4}$ 

Town 1 South, Range 12 City of Detroit,

of Section 31

Wayne County, Michigan

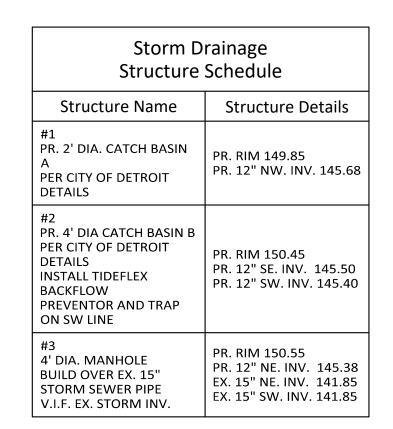
Engineering Plan

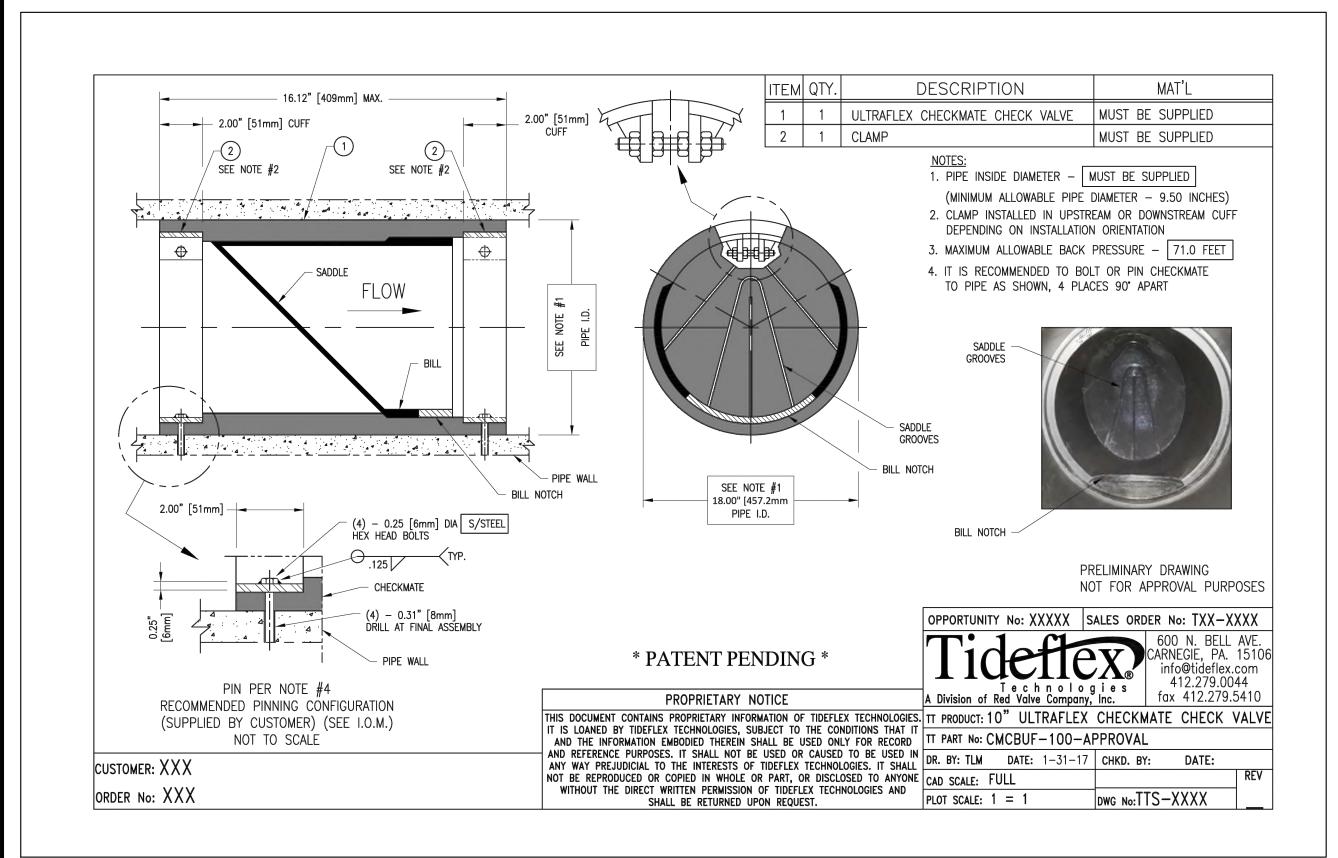


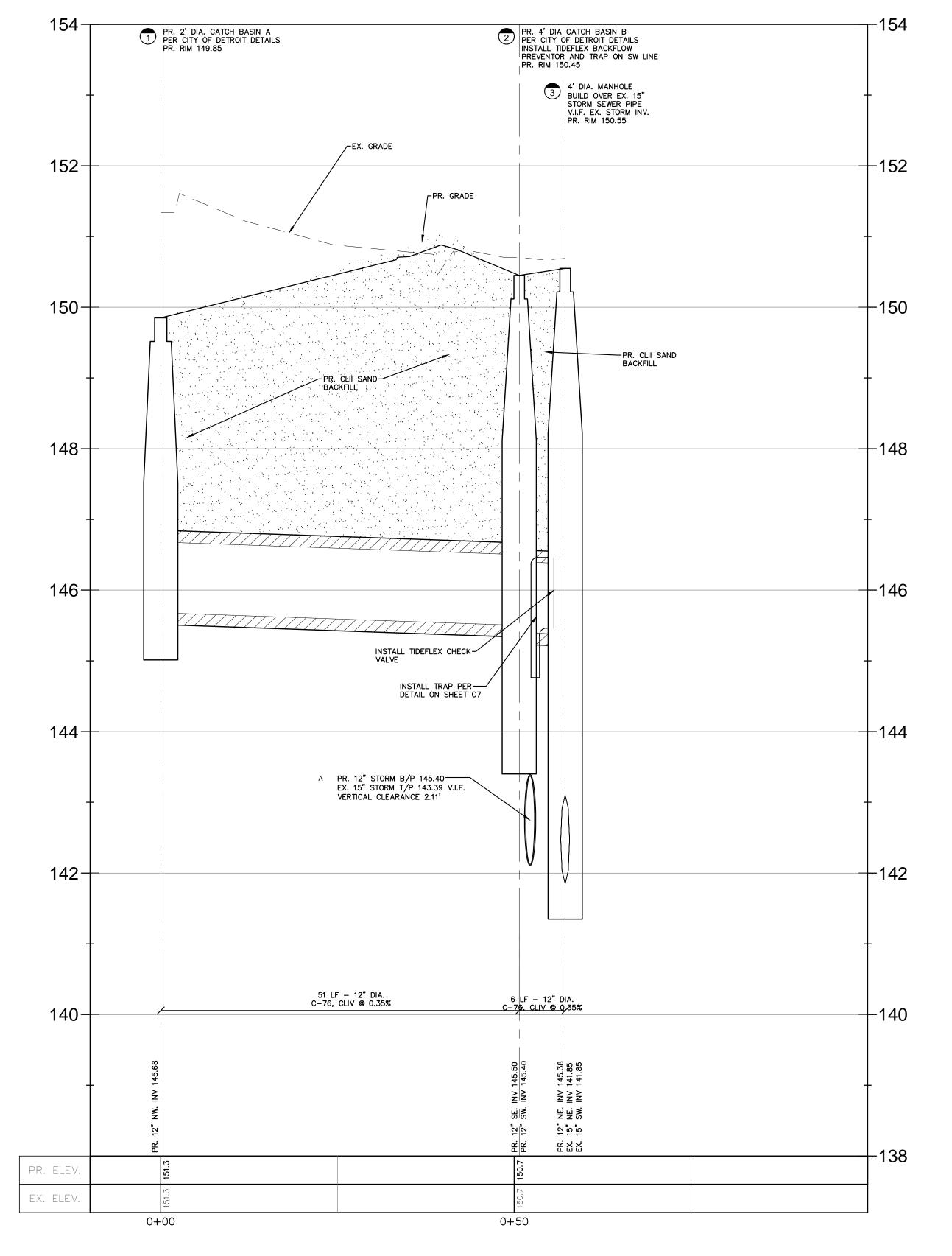
		DATE IS	SSUED/REVISED
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LEGEND		2022-05-11 REVISED	) PER OWNER
MANHOLE		2022-08-18 REVISED PER ROW REVIEW	
	- EXISTING SANITARY SEWER	2022-08-25 REVISEI	D PER ROW REVIEW
HYDRANT 0.75	SAN. CLEAN OUT	2022-09-27 REVISED PER ROW REVIEW	
MANHOLE CATCH BASIN	EXISTING WATERMAIN	2022-10-25 REVISED PER CITY REVIEW	
	EXISTING STORM SEWER	2022-10-26 REVISED PER OWNER	
X	EX. R. Y. CATCH BASIN	2022-11-08 REVISED PER CITY REVIEW	
	- EXISTING BURIED CABLES	2022-11-30 REVISED PER CITY REVIEW	
UTILITY POLE GUY POLE	OVERHEAD LINES	2023-08-07 REVISEI	D PER OWNER
GUY WIRE	•	2023-09-11 REVISED	) PER OWNER
	LIGHT POLE		D PER OWNER
4	SIGN	DRAWN BY:	
C.O. MANHOLE  HYDRANT GATE VALVE	- EXISTING GAS MAIN	L. Gross  DESIGNED BY: T. Wood	
	PR. SANITARY SEWER		
	- PR. WATER MAIN		
INLET C.B. MANHOLE	- PR. STORM SEWER	APPROVED BY	
<del></del>	PR. R. Y. CATCH BASIN	J. Longhur	
**	PROPOSED LIGHT POLE	DATE:	<u> </u>
TC 600.00		December December	1 2021
<del></del>	PR. TOP OF CURB ELEVATION	December	1, 2021
GU 600.00	PR. GUTTER ELEVATION	SCALE: 1" =	= 10'
TW 600.00	PR. TOP OF WALK ELEVATION	10 5 0 5 10	
TP 600.00	PR. TOP OF PVMT. ELEVATION		
FG 600.00	FINISH GRADE ELEVATION	NFE JOB NO.	SHEET NO
		1 770/0	~-

**M262** 

**C3** 





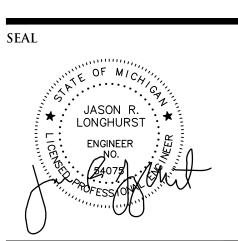


Time of Concentration M262 T min= 5 Minutes **Detroit, Wayne County** Project No: 38.4164\*(10^0.2082)/((12.3258 + D)^0.8405) 10 Year Storm Event Intensity **Storm Sewer Calculations** 603 E Milwaukee Avenue Project Name: n (Conc.) Manning's Roughness Coefficient Detroit Location: n (Pvc) Manning's Roughness Coefficient Dated: 12/1/2021 Head Loss Friction Hf=L(Qn/(0.46D^2.67))^2 11/30/2022 Revised: Head Loss Structure Hm=Km(V^2 / 2g) Drainage Runoff Equivalent Total Rainfall Actual Pipe Pipe Pipe Flow Full Time of Full Pipe H. G. Elev. H. G. Elev. H. G. Change in Invert Elev. Invert Elev. COVER RIM TO HG Head Loss Head Loss Theoretical Drainage From Km Elevation Elevation Upper End Lower End Area Structure Concentration Intensity Discharge Size Slope Length Velocity Flow Capacity Upper End Lower End Slope Table 5-7 at Str Friction Velocity Structure Area Number (C \* A) (Sum C \* A) (Minutes) (Inches/Hr.) (CFS) (Inches) (% Slope) (Feet) (Ft / Sec) (Minutes) (CFS) (Feet) (Feet) (% Slope) (Feet) (Feet) (Feet) (Feet) (Location) Number (Acres) 12 0.35 51 2.91 0.29 2.28 146.21 146.20 0.02 0.09 0.086 0.00 0.01 0.61 149.85 0.18 145.68 145.50 3.00 0.01 0.00 0.61 150.45 0.02 145.40 145.38 3.88 4.26



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LAND SURVEYORS
LAND PLANNERS



PROJECT
603 E Milwaukee Ave
Detroit, Michigan

CLIENT

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

PROJECT LOCATION

Part of the Northeast \(^{1}\)\_4

of Section 31

Town 1 South, Range 12

East

City of Detroit,

Wayne County, Michigan

SHEET
Storm Profile



DATE ISSUED/REVISED

2021-12-03 ISSUED FOR OWNER REVIEW

2022-05-11 REVISED PER OWNER

2022-08-18 REVISED PER ROW REVIEW

2022-08-25 REVISED PER ROW REVIEW

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2022-11-30 REVISED PER CITY REVIEW

#### 2023-09-11 REVISED PER OWNER 2023-09-28 REVISED PER OWNER

2023-08-07 REVISED PER OWNER

DRAWN BY:

A. Panley

DESIGNED BY:

A. Panley

APPROVED BY:

J. Longhurst

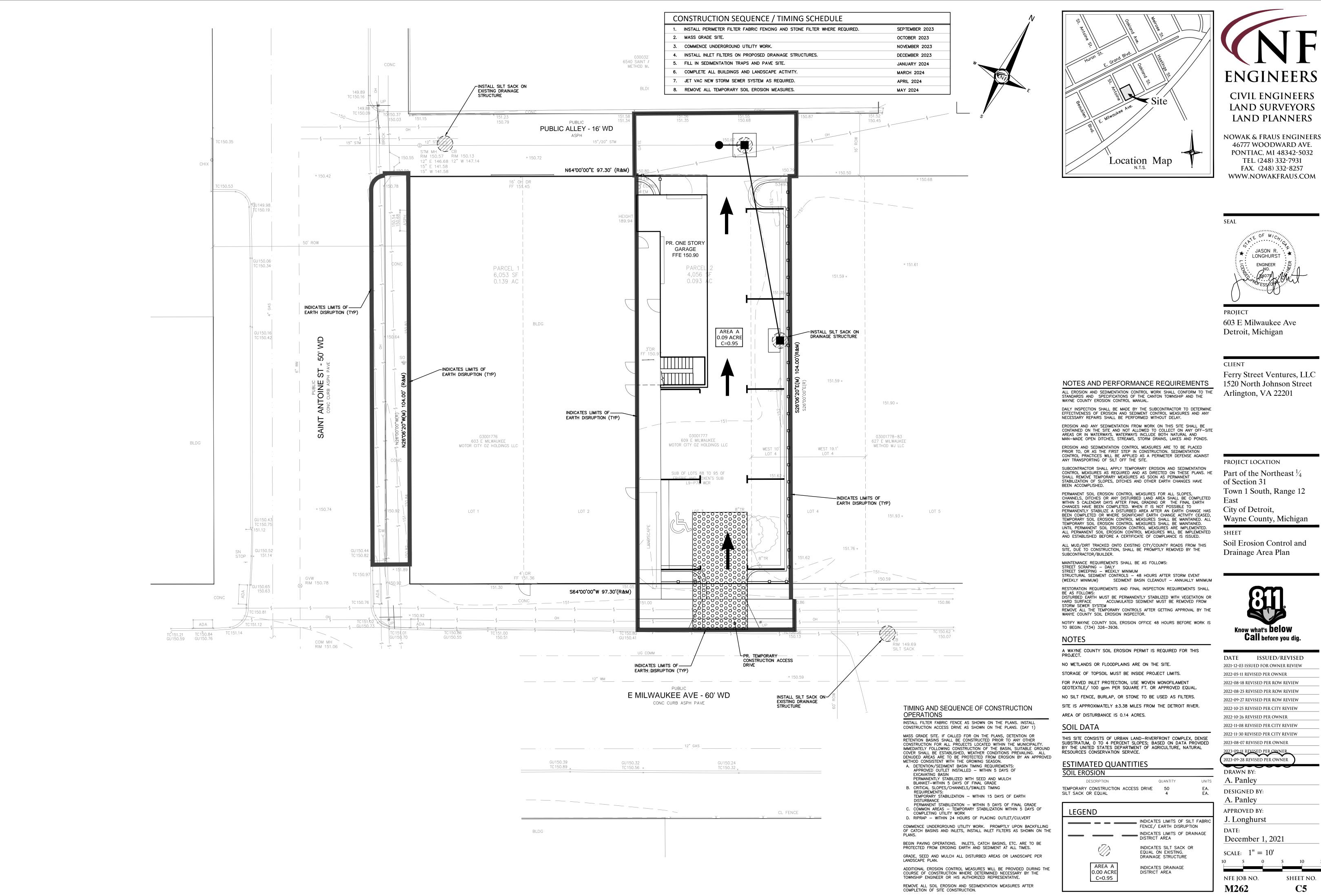
DATE:

DATE:
December 1, 2021

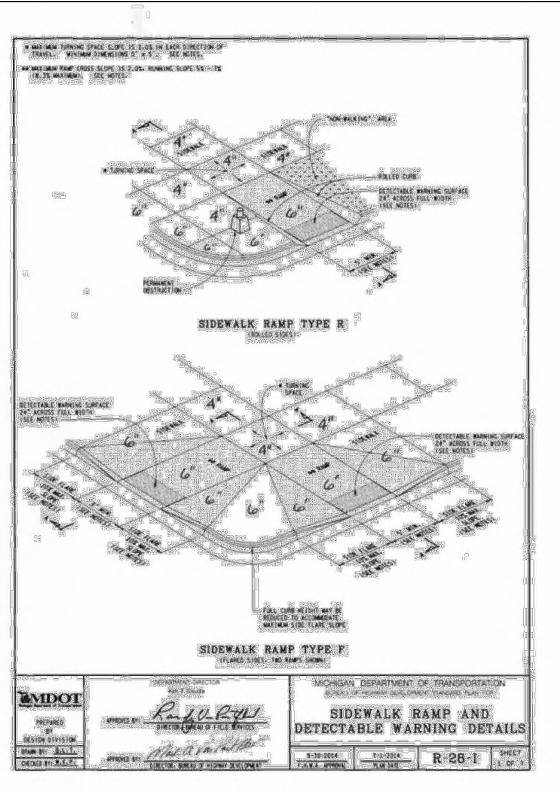
SCALE: 1" = 10' / 1"=

SCALE: 1'' = 10' / 1'' = 1'

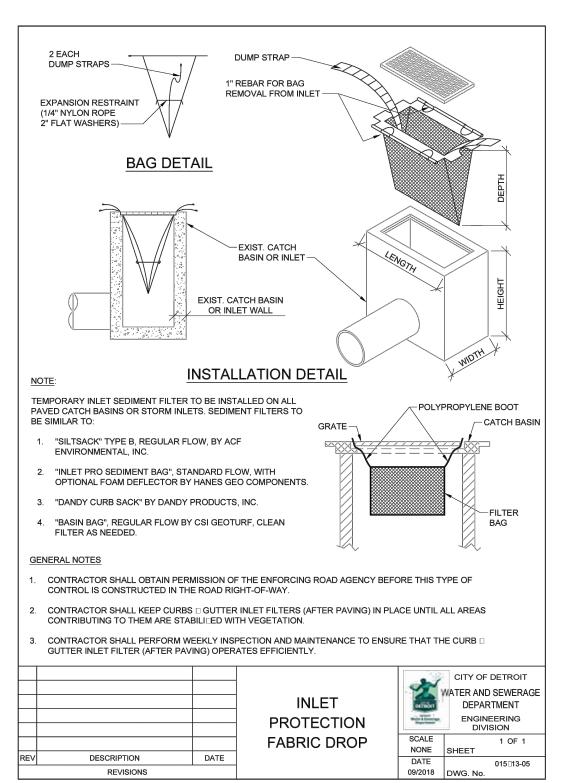
NFE JOB NO. SHEET NO. **M262 C4** 

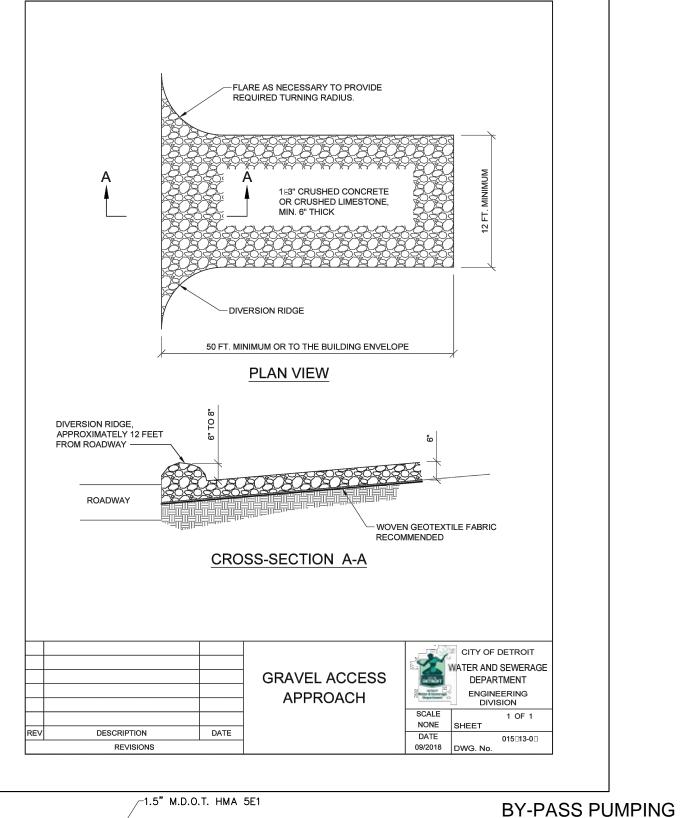


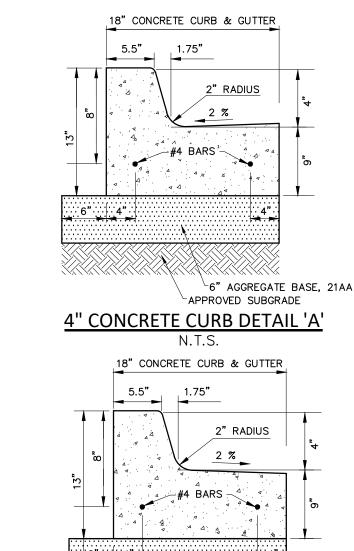












LAPPROVED SUBGRADE

4" CONCRETE CURB DETAIL '

FROM TIME TO TIME IT MAY BE NECESSARY FOR THE CONTRACTOR TO BY-PASS PUMP TO

MEANS AND METHODS FOR PIPE CONSTRUCTION

OUT ON THE PLANS OR NOT

SATISFACTORILY COMPLETE THE CONSTRUCTION.

REFLECT THE PAVEMENT THICKNESS ON THE PROJECT.

MAINTENANCE OF TRAFFIC

PAVEMENT REMOVAL

GOVERNMENTAL AGENCIES.

**IRRIGATION** 

COMPLETE THE WORK INDICATED ON THE PLANS. THE COST OF BY-PASS PUMPING, THE METHODS, EQUIPMENT AND MEANS OF PROVIDING THAT WORK ARE THE RESPONSIBILITY OF THE

CONTRACTOR AND SHALL BE CONSIDERED PART OF THE WORK WHETHER SPECIFICALLY CALLED

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR

CONSTRUCTING THE UNDERGROUND PIPE SYSTEMS PROPOSED ON THE PLANS, INCLUDING BUT

NOT LIMITED TO THE NEED FOR SHORING/BRACING OF TRENCHES, DEWATERING OF TRENCHES,

SCHEDULING THE WORK AT OFF PEAK HOURS. AND/OR MAINTAINING EXISTING FLOWS THAT MAY

BE ENCOUNTERED VIA PUMPING, BY—PASS PIPING OR OTHER MEANS. THE CONTRACTOR SHALL

NOT BE PAID ANY ADDITIONAL COMPENSATION TO IMPLEMENT ANY MEANS AND METHODS TO

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESS OF THE PAVEMENT

DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL ACCOMMODATE BOTH

VEHICULAR AND PEDESTRIAN TRAFFIC IN THE ROAD RIGHTS OF WAY. THE CONTRACTOR'S

THE INFLUENCE OF THE ROAD OR PEDESTRIAN RIGHT OF WAY, THE CONTRACTOR SHALL

EQUIPMENT AND OPERATIONS ON PUBLIC STREETS SHALL BE GOVERNED BY ALL APPLICABLE

LOCAL, COUNTY AND STATE ORDINANCES, REGULATIONS AND LAWS. THE CONTRACTOR SHALL

OBTAIN AND SATISFY ANY AND ALL PERMIT REQUIREMENTS BY THE LOCAL, COUNTY AND STATE

IN ADDITION, WHERE THE WORK REQUIRES THE CLOSURE OF ONE OR MORE LANES OR IS WITHIN

PROVIDE ALL SIGNS, BARRICADES, FLAG PERSONS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED BY MDOT, THE COUNTY, OR THE COMMUNITY HAVING JURISDICTION OF THE ROAD

AND IN CONFORMANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

COMPENSATION FOR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE CONTRACT

THE CONTRACTOR SHALL MAINTAIN OR REPAIR ANY EXISTING IRRIGATION SYSTEMS WITHIN THE

PROJECT AREA UNLESS THE DRAWINGS CALL FOR THE IRRIGATION SYSTEM TO BE REMOVED.

THE OWNER AND NFE MAKE NO REPRESENTATIONS. WARRANTY OR GUARANTY AS TO THE

COMPENSATION FOR MAINTAINING OR REPAIRING EXISTING IRRIGATIONS SYSTEMS SHALL BE

CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC IRRIGATION SYSTEM

REPAIR ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

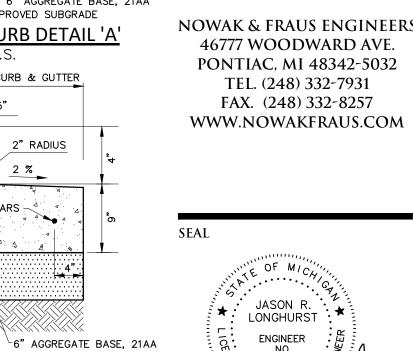
SUB-SOIL CONDITIONS

LOCATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE IRRIGATION SYSTEM DURING CONSTRUCTION ACTIVITIES.

PRICE(S) UNLESS SPECIFIC TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ACCEPTED BID

REMOVAL. PAVEMENT CORE SAMPLES ARE FOR INFORMATIONAL PURPOSES ONLY AS TO THE

THICKNESS OF THE PAVEMENT AT THE LOCATION OF THE SAMPLE. THE OWNER AND ENGINEER MAKE NO REPRESENTATION, WARRANTY OR GUARANTY THAT THE SAMPLES ACCURATELY



**PROJECT** 603 E Milwaukee Ave Detroit, Michigan

CLIENT

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

**ENGINEERS** 

**CIVIL ENGINEERS** 

LAND SURVEYORS

LAND PLANNERS

Part of the Northeast  $\frac{1}{4}$ of Section 31 Town 1 South, Range 12

City of Detroit,

Wayne County, Michigan

SHEET Notes and Details

ANY SOIL BORING PROVIDED BY THE OWNER AND/OR ENGINEER IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THIS INFORMATION IS NOT OFFERED AS EVIDENCE OF GROUND CONDITIONS THROUGHOUT THE PROJECT AND ONLY REFLECT THE GROUND CONDITIONS AT THE LOCATION OF THE BORING ON THE DATE THEY WERE TAKEN. THE ACCURACY AND RELIABILITY OF THE SOIL LOGS AND REPORT ARE NOT WARRANTED OR GUARANTEED IN ANY WAY BY THE OWNER OR ENGINEER AS TO THE SUB-SOIL CONDITIONS FOUND ON THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION AND SUB-SOIL INVESTIGATION AND SECURE OTHER SUCH INFORMATION AS THE CONTRACTOR

CONSIDERS NECESSARY TO DO THE WORK PROPOSED AND IN PREPARATION OF THEIR BID. SUBGRADE UNDERCUTTING AND PREPARTION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SOILS WHICH DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SUBGRADE IN CONFORMANCE WITH THE PROJECT PLANS AND/OR SPECIFICATIONS. THE MEANS AND METHODS USED TO ACHIEVE THE REQUIRED RESULT SHALL REST SOLELY WITH THE CONTRACTOR.

ANY AREAS OF UNDERCUTTING THAT RESULT IN ADDITIONAL OR EXTRA WORK BECAUSE THEY COULD NOT BE IDENTIFIED BY THE CONTRACTOR'S PRE-BID SITE OBSERVATION OR ARE NOT SET FORTH IN THE PLANS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE ANY EXTRA WORK IS PERFORMED. THE CONTRACTOR SHALL MAKE A REQUEST FOR ANY ADDITIONAL COMPENSATION FOR THE UNDERCUTTING IN WRITING AND THE REQUEST SHALL CONFORM TO THE CONTRACT'S CHANGE ORDER PROVISIONS. STRUCTURE BACKFILL

STRUCTURAL BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PROJECT PLANS, SPECIFICATIONS OR AS REQUIRED BY THE COMMUNITY, GOVERNMENT AGENCY OR UTILITY THAT HAS JURISDICTION OVER THE WORK.

TRENCH BACKFILL TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PLANS AND/OR SPECIFICATIONS. TRENCH BACKFILL SHALL ALSO BE INSTALLED IN CONFORMANCE WITH THE COMMUNITY REQUIREMENTS OR AGENCY/UTILITY GOVERNING SAID TRENCH CONSTRUCTION. IN THE CASE OF CONFLICTING REQUIREMENTS. THE MORE STRINGENT SHALL APPLY.

EARTH BALANCE / GRADING IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER THE SITE EARTHWORK BALANCES OR NOT. ANY EXCESS CUT MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. IN A LIKE MANNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT APPROVED FILL MATERIAL AND PLACE IT AS REQUIRED TO ATTAIN THE SITE GRADE AND

COMPACTION REQUIREMENTS PER THE ENGINEER'S PLAN AND ALL APPLICABLE GOVERNMENTAL STANDARDS. THE ENGINEER AND OWNER MAKE NO REPRESENTATION AS TO THE QUANTITIES THAT MAY BE NEEDED TO CREATE A BALANCED EARTHWORK CONDITION OR THAT THE SITE EARTHWORK IS BALANCED.

SOIL EROSION / SEDIMENTATION CONTROL

THE CONTRACTOR SHALL OBTAIN THE REQUIRED SOIL EROSION PERMIT AND SATISFY ALL REGULATORY REQUIREMENTS FOR CONTROLLING SOIL EROSION AND SEDIMENT TRANSPORT. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS. THE ENGINEER AND OWNER AR NOT RESPONSIBLE FOR INSPECTION OR APPROVAL OF THE CONTRACTOR'S WORK IN CONNECTION WITH SATISFYING THE SOIL EROSION PERMIT REQUIREMENTS UNLESS SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS.



DATE ISSUED/REVISED 2021-12-03 ISSUED FOR OWNER REVIEW 2022-05-11 REVISED PER OWNER 2022-08-18 REVISED PER ROW REVIEW 2022-08-25 REVISED PER ROW REVIEW 2022-09-27 REVISED PER ROW REVIEW

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2023-09-11 REVISED PER OWNER 2023-09-28 REVISED PER OWNER

DRAWN BY:

L. Gross

**DESIGNED BY:** T. Wood

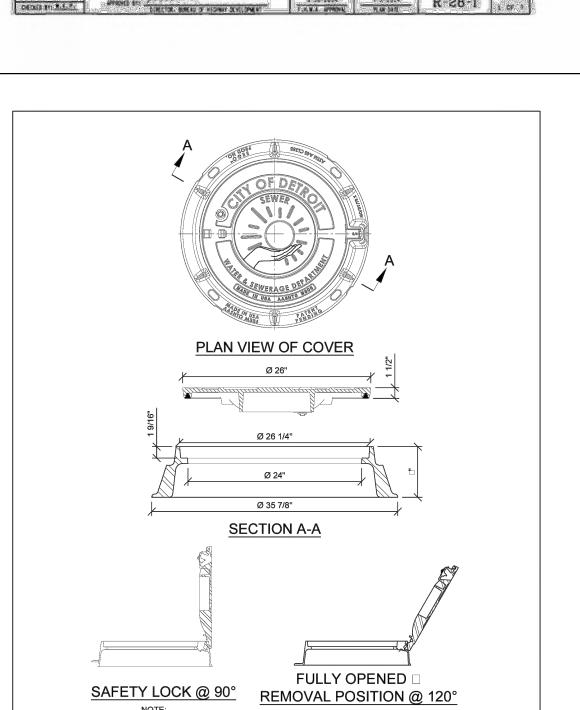
APPROVED BY: J. Longhurst

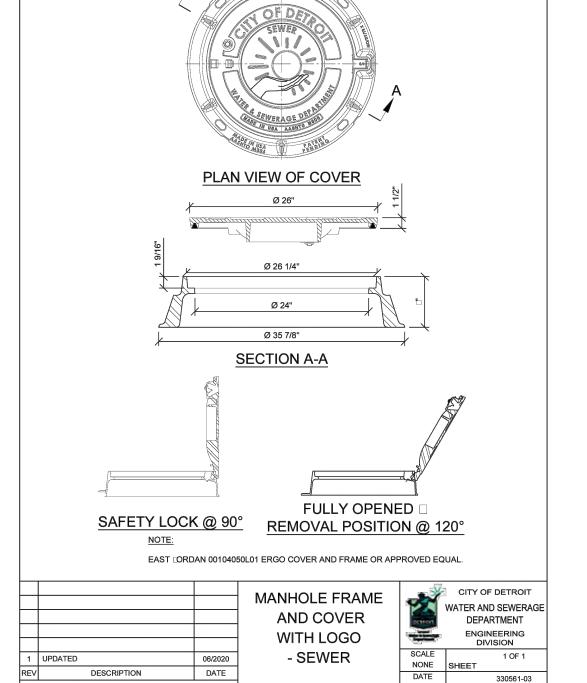
December 1, 2021

SCALE: N.T.S.

NFE JOB NO.

SHEET NO. **C6** 





DAMAGE TO PRIVATE PROPERTY

SHALL NOT BE AN EXTRA TO THE CONTRACT.

ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING, ETC., THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND

OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS

THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE

DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND

ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS.

IF NOT SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION DESIGN DOCUMENTS, THE DESIGN

OR QUALITATIVE ANALYSIS OF GROUND WATER DEWATERING SYSTEMS IS BEYOND THE SCOPE OF DESIGN FOR THESE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING

ADJACENT PAVEMENTS OR STRUCTURES PRIOR TO BEGINNING DEWATERING CONDITIONS. MEANS

AND METHODS OF DEWATERING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE

COST OF DEWATERING WILL BE CONSIDERED INCLUDED IN THE WORK OF CONSTRUCTING THE

DEWATERING OF TRENCH AND EXCAVATIONS

AND PROVIDING APPROPRIATE EXCAVATION DEWATERING SYSTEMS FOR USE DURING

UNDERGROUND UTILITIES UNLESS SPECIFICALLY INDICATED OTHERWISE.

THE DEWATERING METHOD SELECTED BY THE CONTRACTOR WILL NOT ADVERSELY AFFECT

#### UTILITIES

AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION, THE

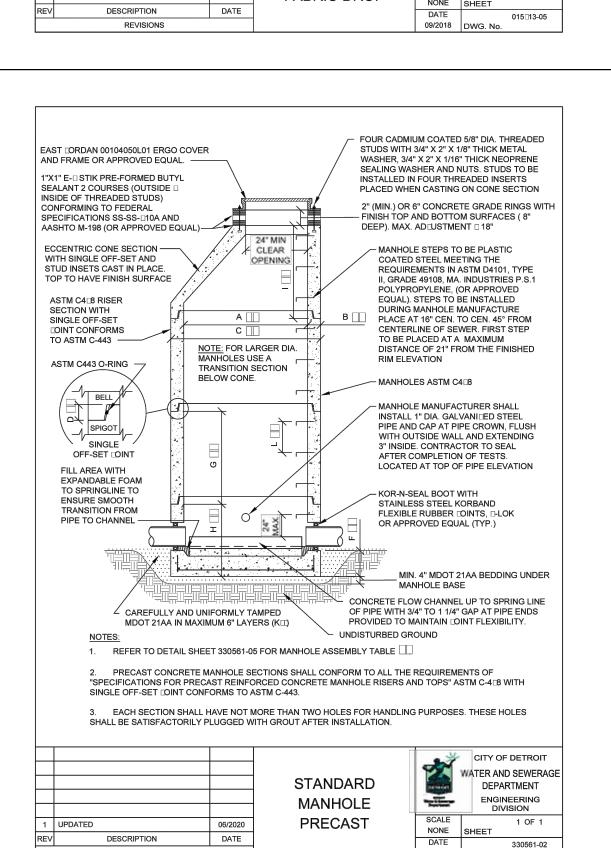
MATERIAL AND CONFIGURATION PRIOR TO CONSTRUCTION. COSTS FOR EXPLORATORY EXCAVATION IS AN INCIDENTAL COST AND SHALL NOT BE CONSIDERED AN EXTRA TO THE

THE EXPENSE OF THE CONTRACTOR, IN CONFORMANCE WITH THE REQUIREMENTS OF THE

#### CONTRACTOR SHALL NOTIFY MISS DIG AND THE LOCAL COMMUNITY (WHERE APPLICABLE) TO STAKE LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL EXPOSE AND VERIFY EXISTING UTILITIES FOR LOCATION, SIZE, DEPTH,

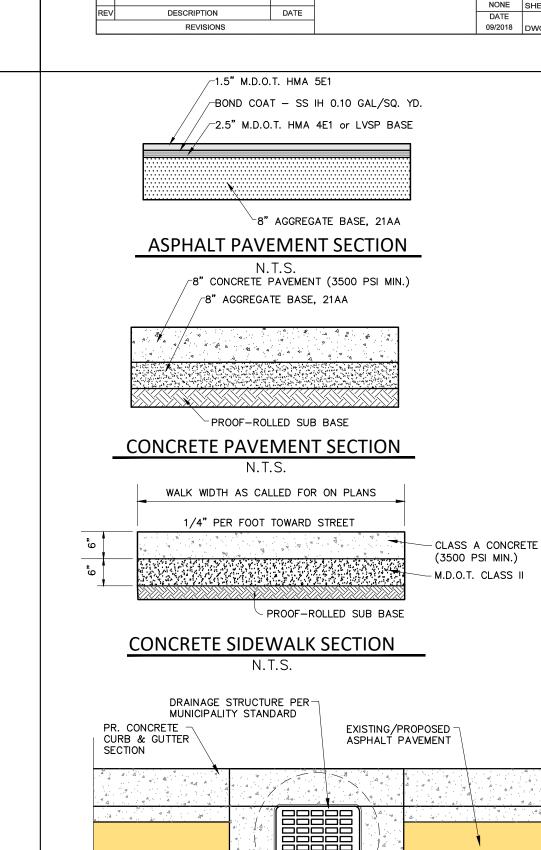
THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING UTILITIES WHICH DO NOT MATCH THE PLANS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. ANY FIELD CHANGES OF THE PROPOSED UTILITIES SHALL BE APPROVED BY THE OWNER AND ENGINEER BEFORE THE

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE. ANY SERVICE OR UTILITY DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT UTILITY COMPANY PROVIDER.



09/2018 DWG. No

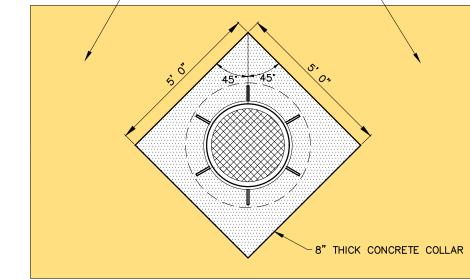
REVISIONS



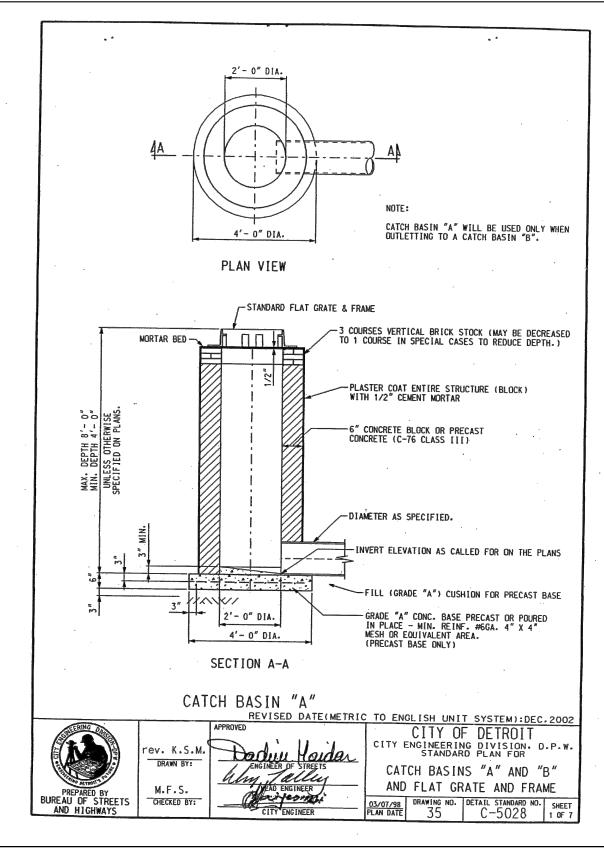
## DRAINAGE STRUCTURE BOXOUT DETAIL I

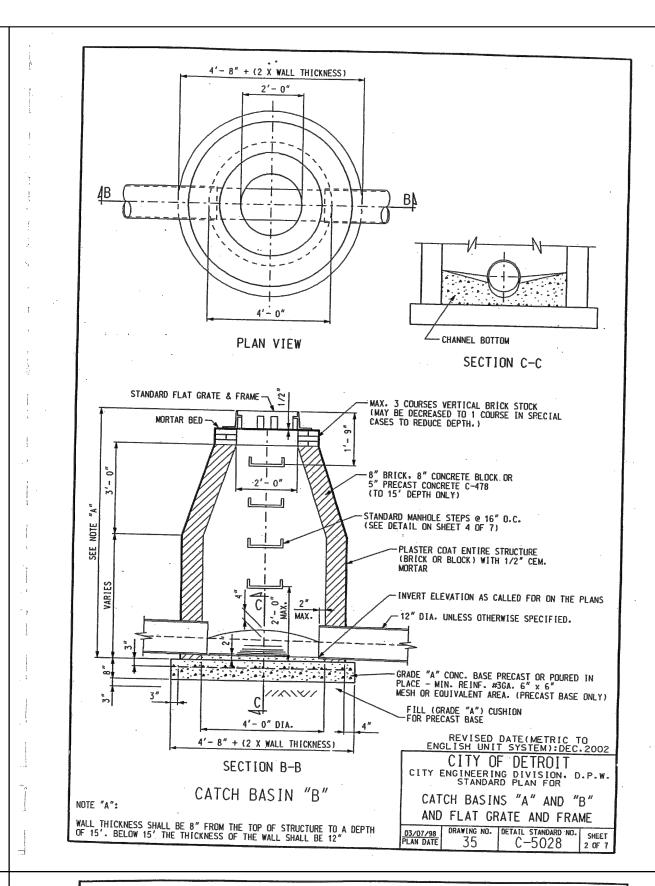
8" THICK CONC. COLLAR

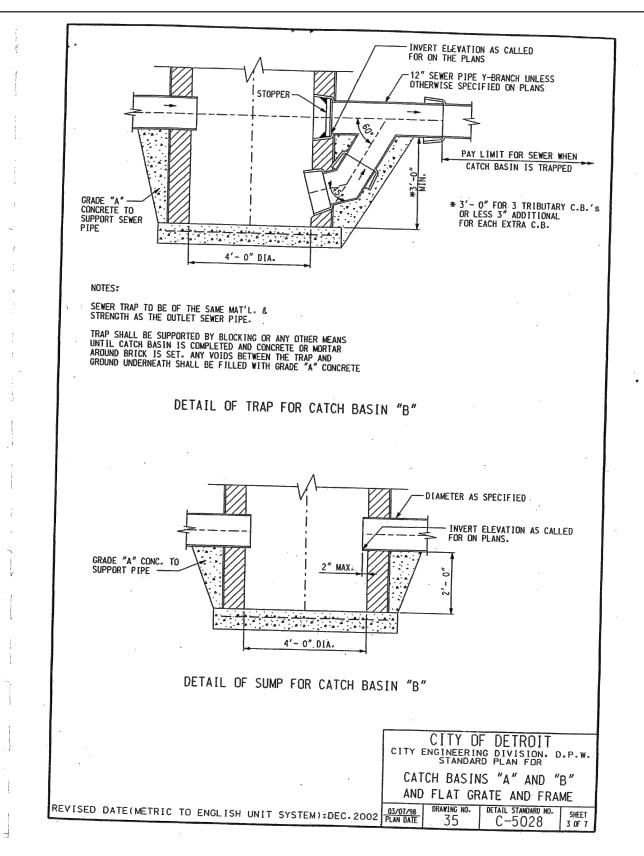
-EXISTING/ PROPOSED ASPHALT PAVEMENT-

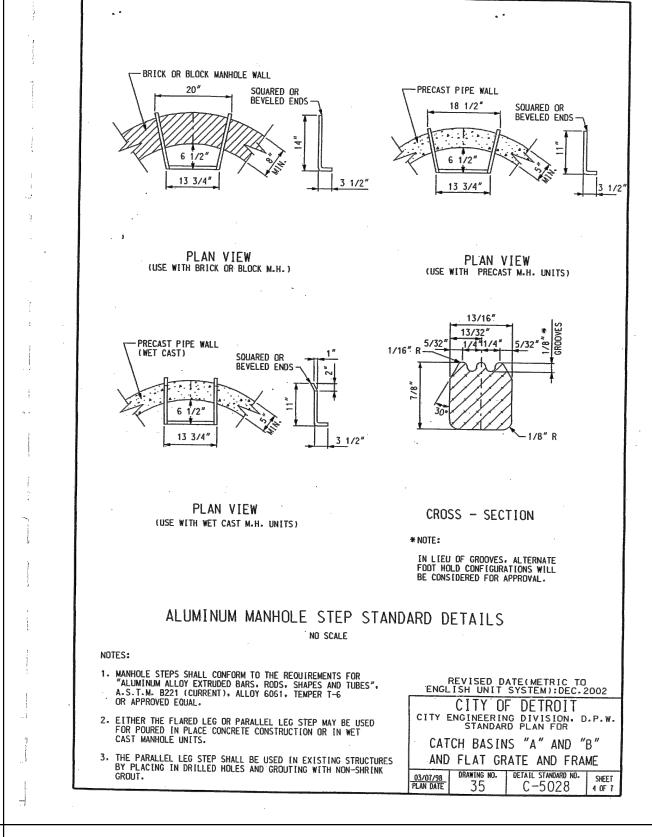


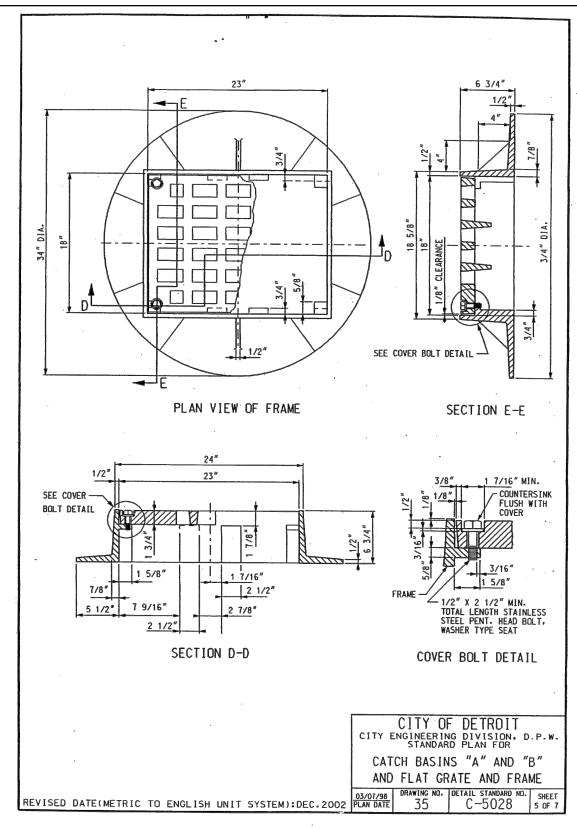
DRAINAGE STRUCTURE BOXOUT DETAIL II

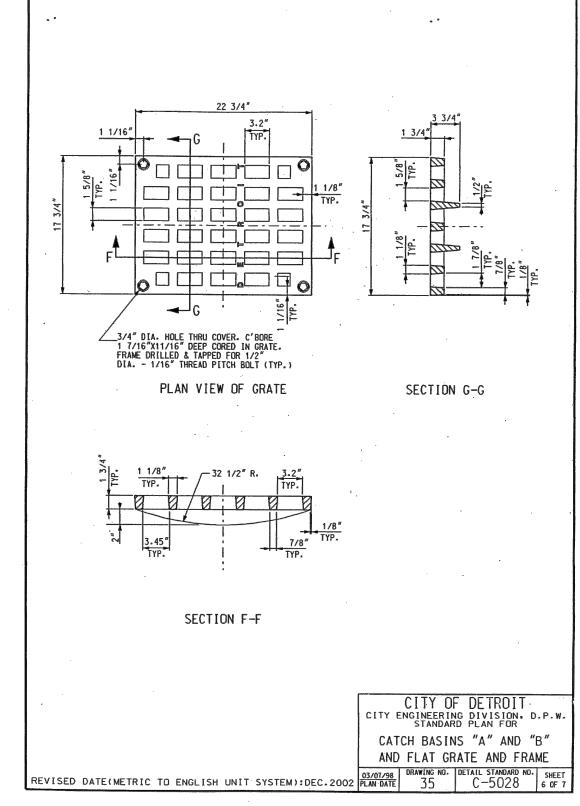


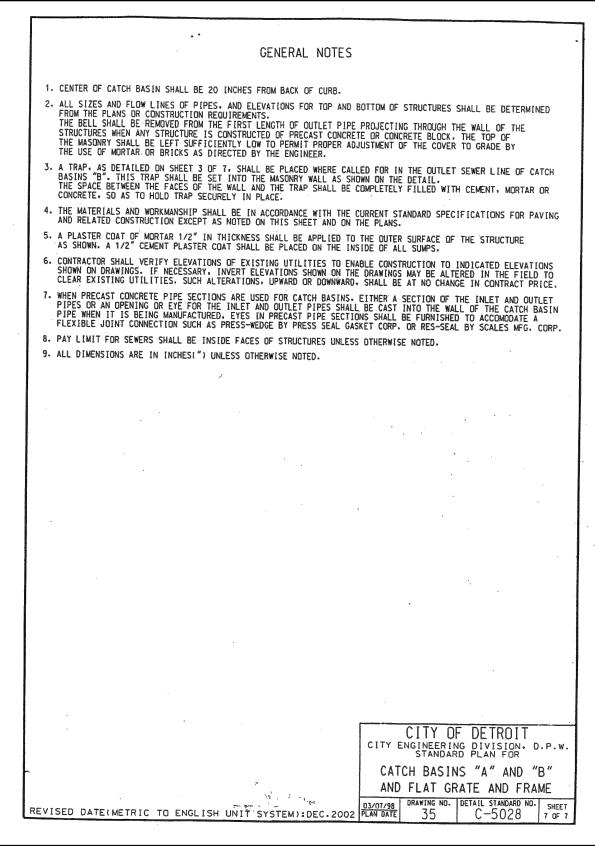


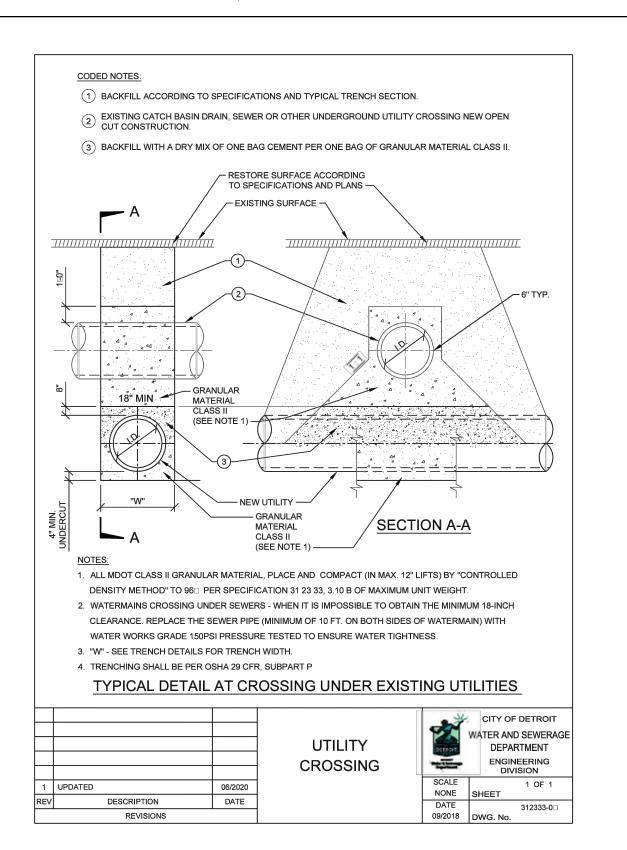


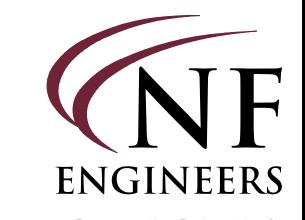






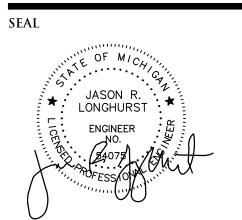






**CIVIL ENGINEERS** LAND SURVEYORS LAND PLANNERS

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PROJECT 603 E Milwaukee Ave Detroit, Michigan

CLIENT

Ferry Street Ventures, LLC 1520 North Johnson Street Arlington, VA 22201

Part of the Northeast  $\frac{1}{4}$ of Section 31 Town 1 South, Range 12 East City of Detroit,

Wayne County, Michigan SHEET

Notes and Details



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DRAWN BY: L. Gross **DESIGNED BY:** 

T. Wood APPROVED BY:

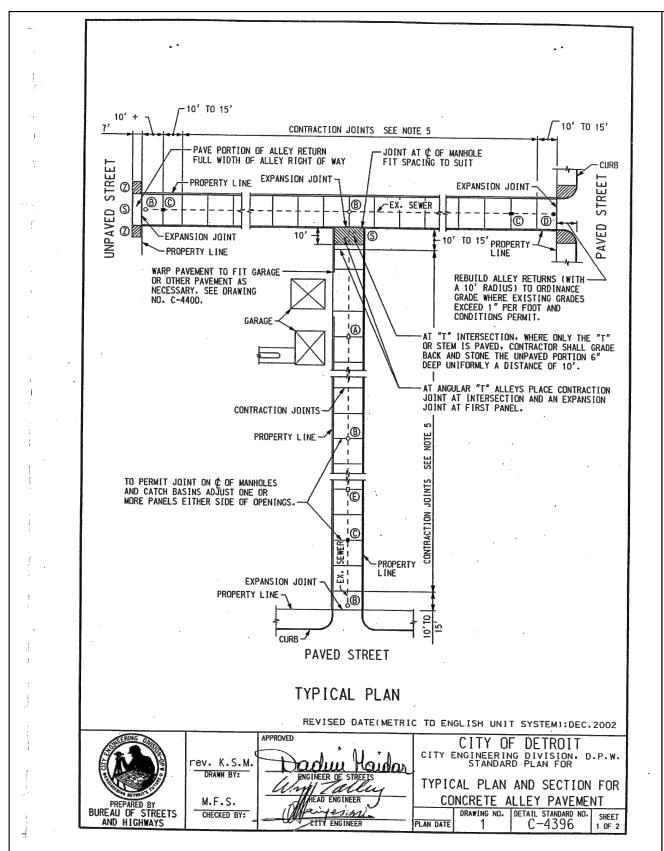
J. Longhurst DATE: December 1, 2021

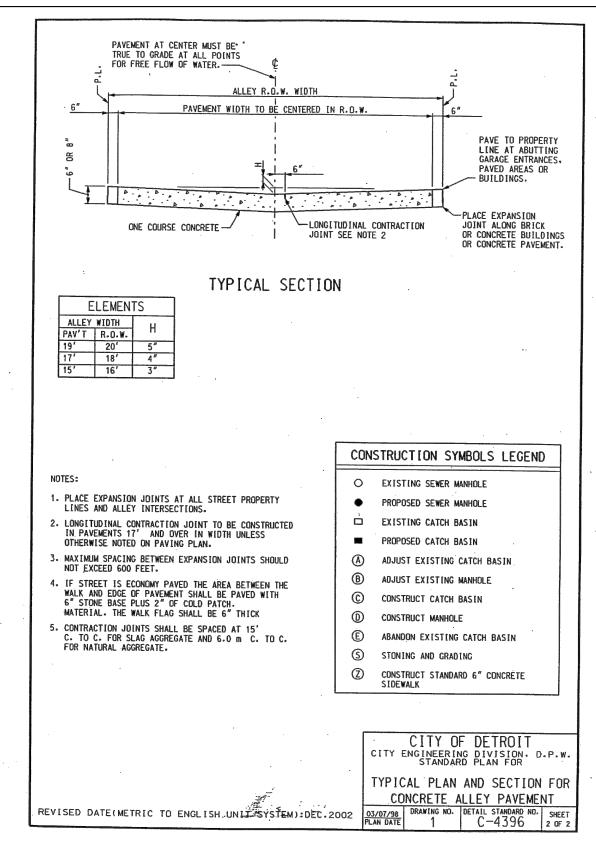
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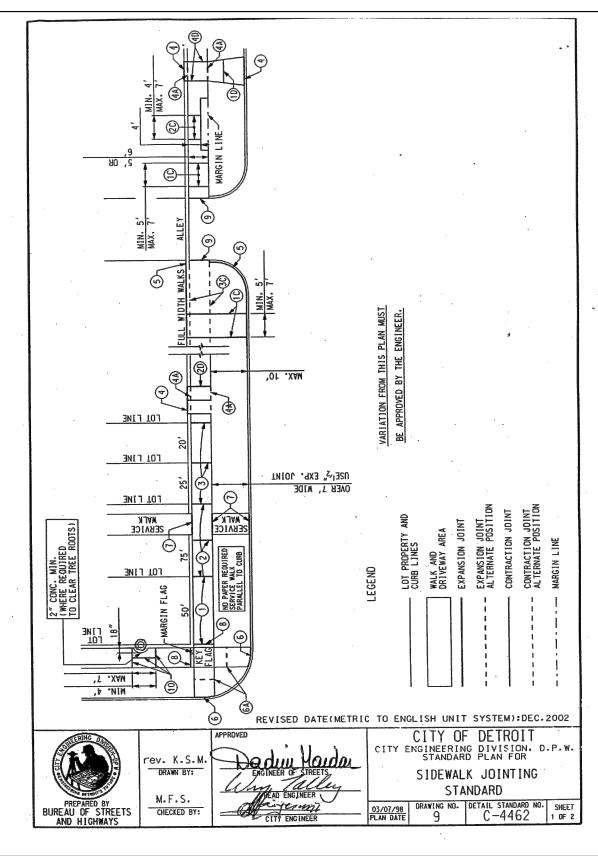
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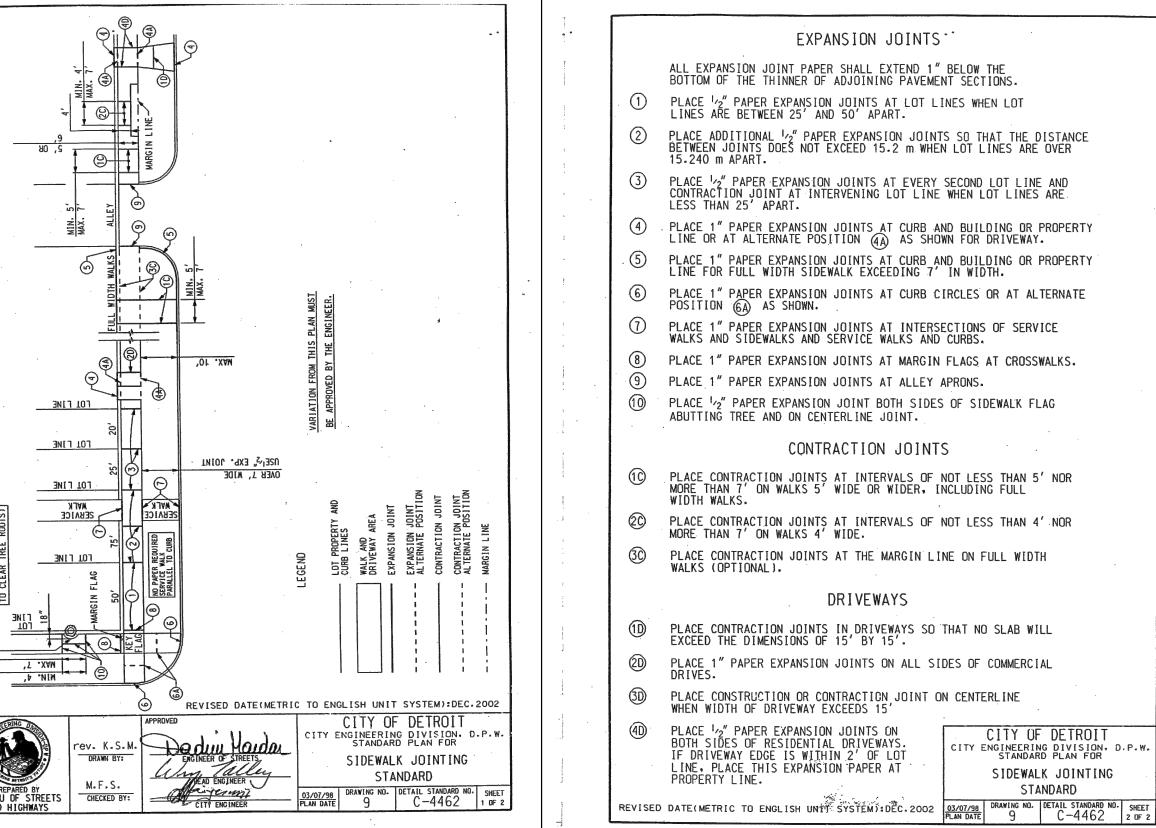
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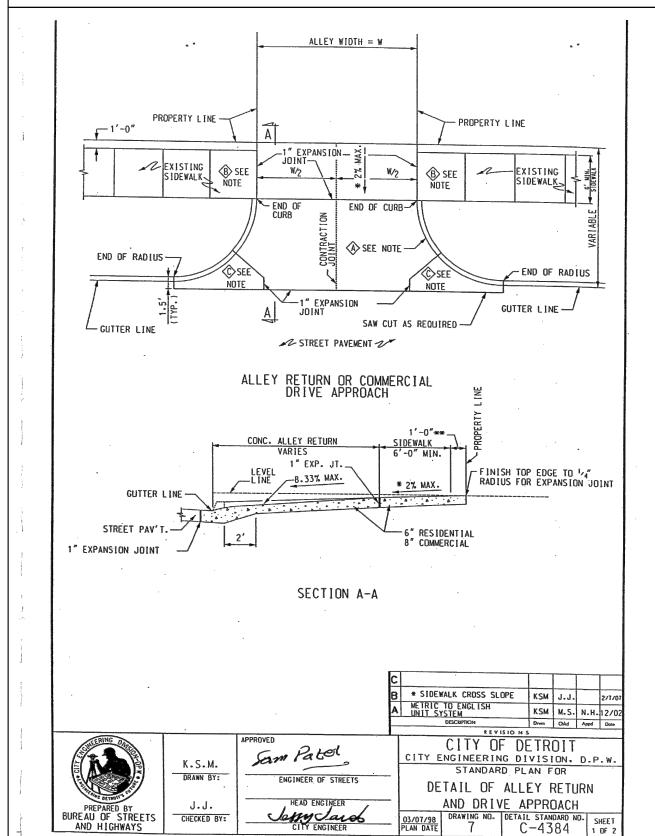
SHEET NO. **C7** 

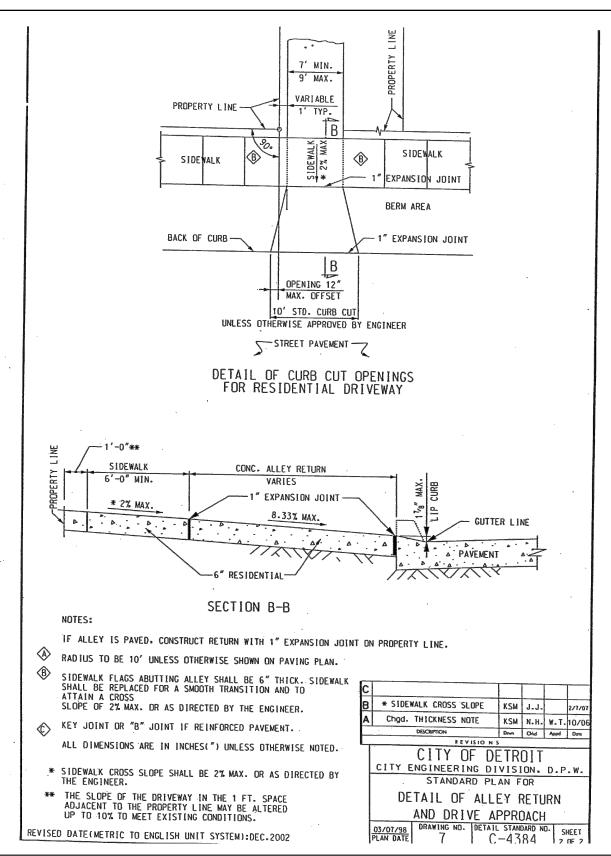


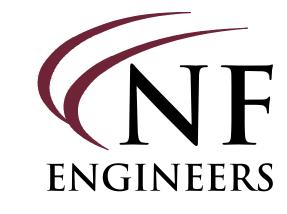












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2023-08-07 REVISED PER OWNER

DRAWN BY: L. Gross **DESIGNED BY:** T. Wood APPROVED BY: J. Longhurst

DATE: December 1, 2021

NFE JOB NO.

SCALE: N.T.S.

SHEET NO. **C8** 

**M262**