### 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

03001776

PARCEL 2

03001777

603 E MILWAUKEE AVE

609 E MILWAUKEE AVE

PHONE: (248) 332-7931

EMAIL: GOSTROWSI@NFE-ENGR.COM

LOTS 1 AND 2, SUB OF LOTS 88-95, FRISBIE AND FOXEN'S SUB, CITY OF

LOT 3, ALSO THE WEST 10' OF LOT 4, SUB OF LOTS 88-95, FRISBIE AND

RECORDED IN LIBER 8, PAGE 78 OF PLATS, WAYNE COUNTY RECORDS.

FOXEN'S SUB, CITY OF DETROIT, WAYNE COUNTY, MICHIGAN, AS

DETROIT, WAYNE COUNTY, MICHIGAN, AS RECORDED IN LIBER 8, PAGE 78

LEGAL DESCRIPTION

OF PLATS, WAYNE COUNTY RECORDS.

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



# 603 E MILWAUKEE AVE DETROIT MI.

Project Name

### REVISIONS:

2021-12-03 ISSUED FOR OWNER REVIEW

### SHEET INDEX

C0 Cover Sheet

Boundary and Topographic Survey

**Demolition Plan** 

Engineering Plan Storm Profile

Soil Erosion Control and Drainage Area Plan

Notes and Details

Notes and Details

C8 Notes and Details

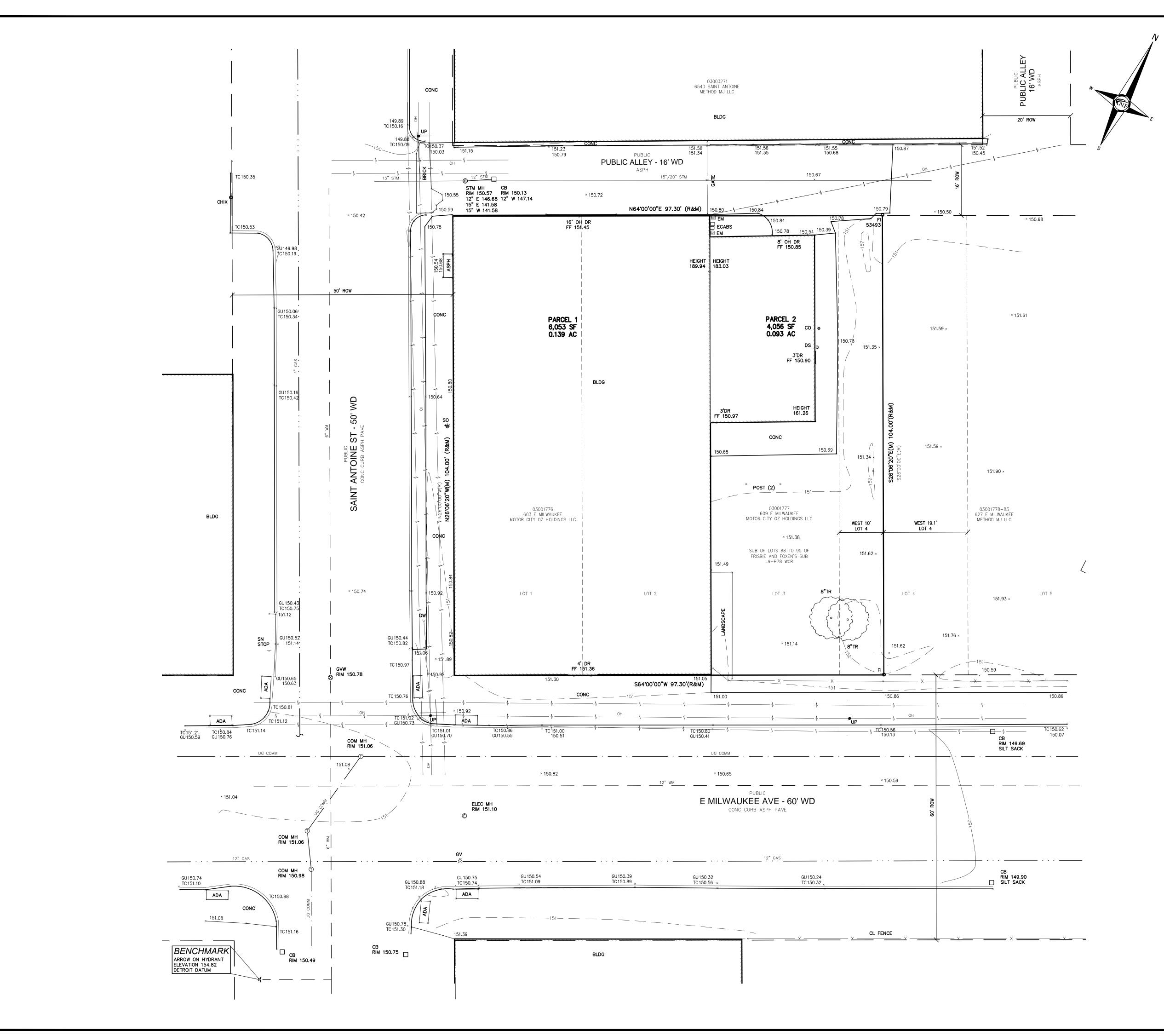
L1 Landscape Plan

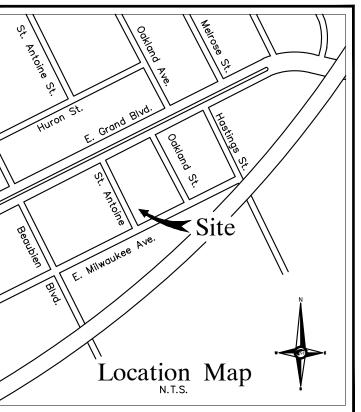
**ENGINEERS CIVIL ENGINEERS** LAND SURVEYORS LAND PLANNERS

N & F JOB #M262

Know what's **below Call** before you dig.

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





### LEGAL DESCRIPTION

PARCEL 1 03001776

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

### SURVEY NOTES

### **COVID-19 PANDEMIC CONDITION**

ALL SURVEYS BEING UTILIZED FOR DESIGN PURPOSES BY OTHERS; IT WILL BE THE CLIENT'S OBLIGATION TO UPDATE THE UTILITY INFORMATION

### 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

603 E MILWAUKEE AVE

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.

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED. 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.

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

AS IT BECOMES AVAILABLE. NFE IS NOT RESPONSIBLE FOR BURIED UTILITIES FOR WHICH PLANS WERE NOT FURNISHED OR CANNOT BE OBSERVED IN THE FIELD.



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



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

City of Detroit,

Wayne County, Michigan

SHEET Boundary and Topographic Survey



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 2022-10-25 REVISED PER CITY REVIEW 2022-10-26 REVISED PER OWNER

2022-11-08 REVISED PER CITY REVIEW

2022-11-30 REVISED PER CITY REVIEW

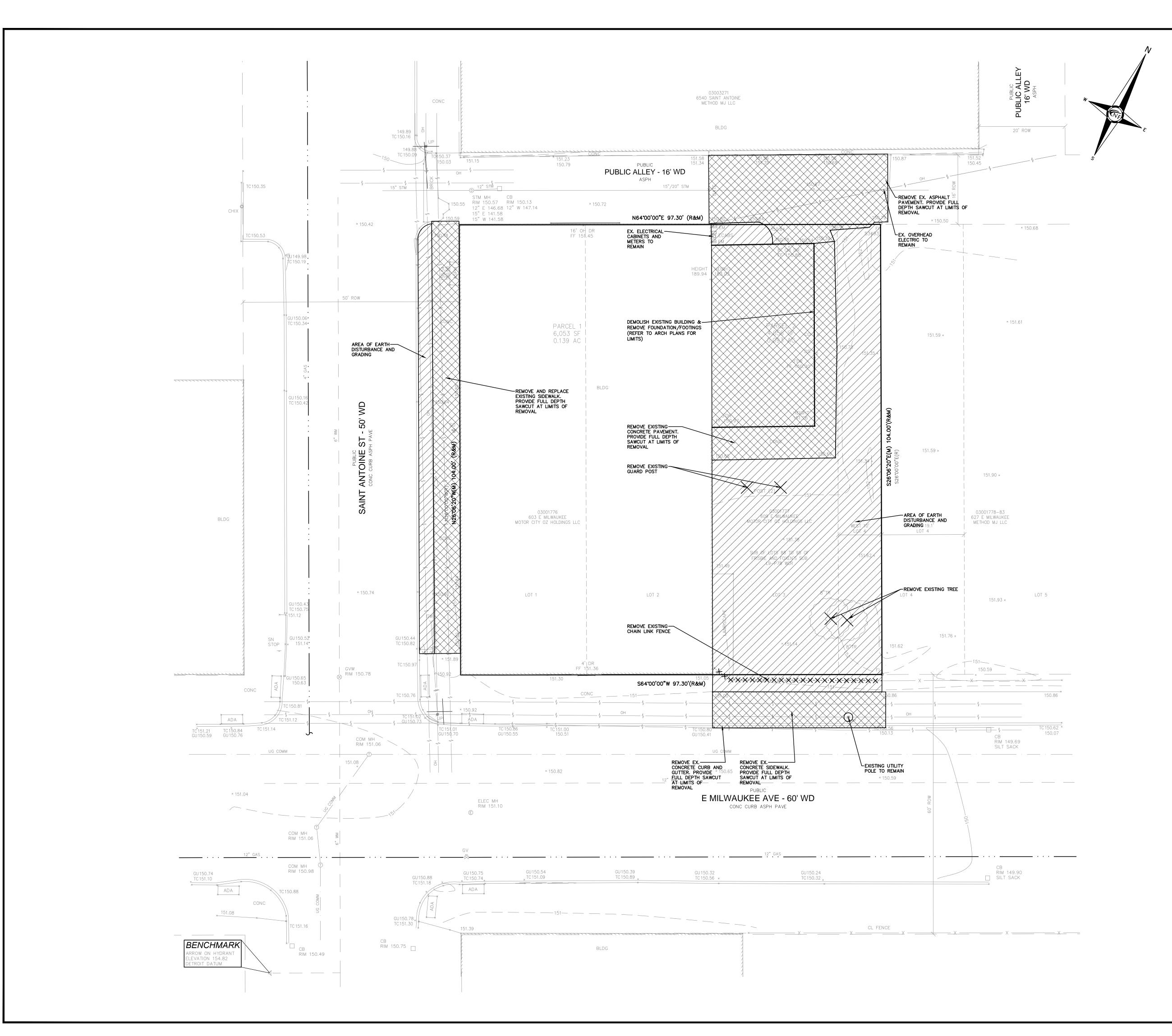
LEGEND	
MANHOLE ——	EXISTING SANITARY SEWER
HYDRANT OUTS WANTE	EXISTING SAN. CLEAN OUT
MANHOLE CATCH BASIN  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	EXISTING WATER MAIN
	EXISTING STORM SEWER
×	EX. R.Y. CATCH BASIN
UTILITY POLE GUY POLE  GUY WIRE	EXISTING BURIED CABLES
	OVERHEAD LINES
*	LIGHT POLE
٩	SIGN
	EXISTING GAS MAIN

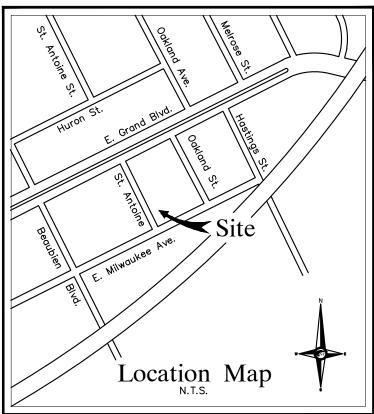
DRAWN BY: J. Nelson **DESIGNED BY:** 

APPROVED BY: J. Longhurst DATE:

December 1, 2021 SCALE: 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

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 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 APPROPRIATE GOVERNMENTAL AGENCY OR PRIVATE UTILITY COMPANY.

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 SITE DEMOLITION.

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.

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

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

INDICATED FOR REMOVAL ON THE PLANS.

OWNER'S REPRESENTATION.

WHERE EXISTING BUILDINGS PLANED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MDOT CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM

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).

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 CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR

PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUSPICIOUS MATERIAL

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







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

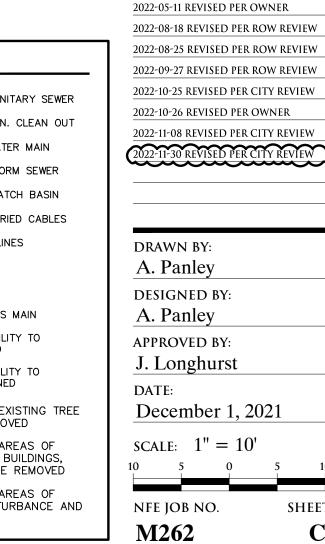
Demolition Plan

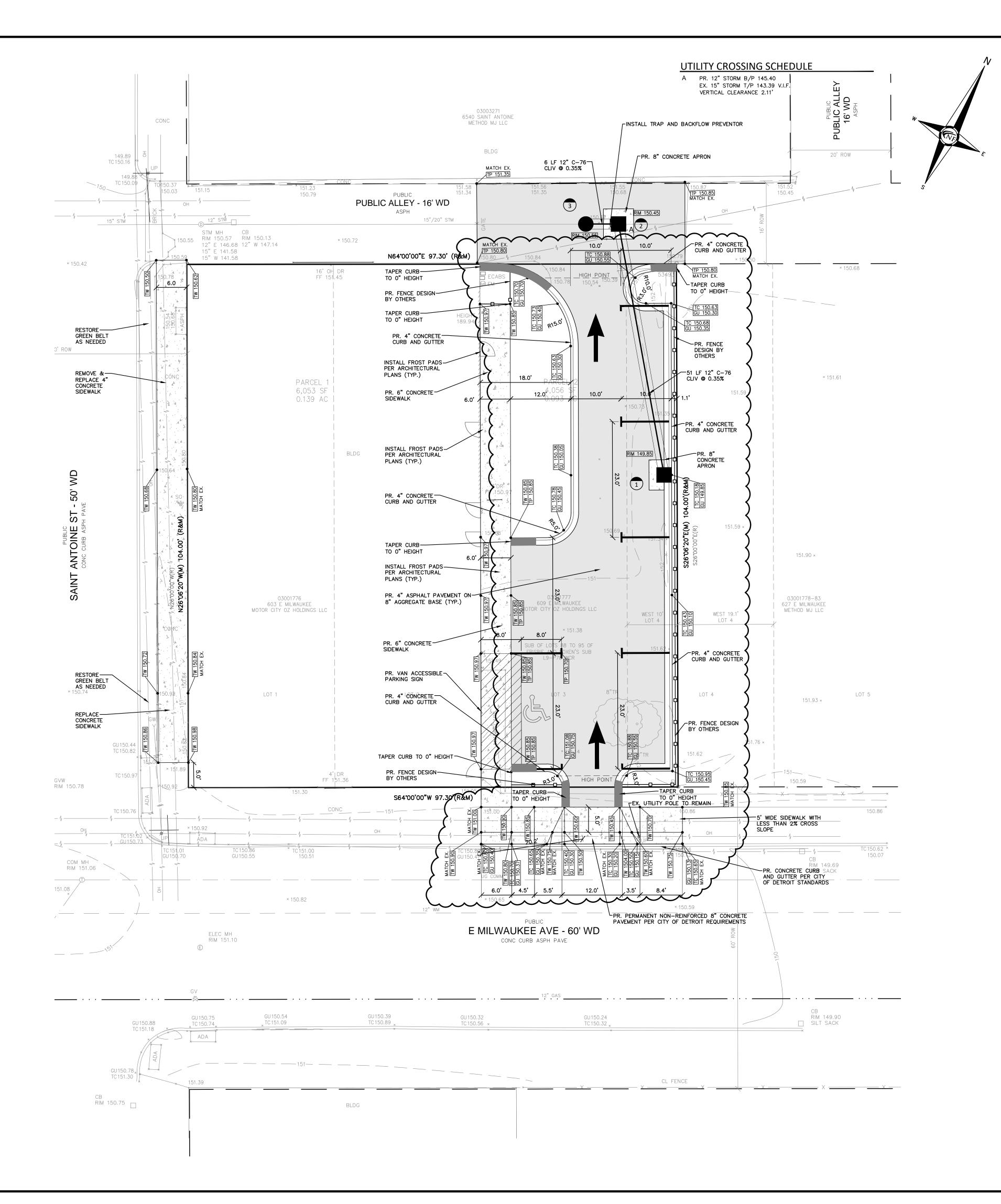


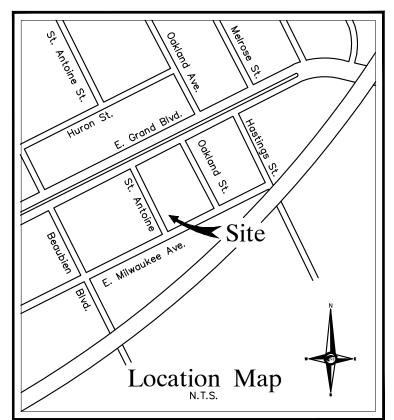
DATE ISSUED/REVISED

SHEET NO.

		2021-12-03 ISSUED FOR OWNER REVIEW
		2022-05-11 REVISED PER OWNER
		2022-08-18 REVISED PER ROW REVIEW
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LEGEND		2022-09-27 REVISED PER ROW REVIEW
MANHOLE S	EXISTING SANITARY SEWER	2022-10-25 REVISED PER CITY REVIEW
	EXISTING SAN. CLEAN OUT	2022-10-26 REVISED PER OWNER
HYDRANT GATE VALVE		2022-11-08 REVISED PER CITY REVIEW
MANHOLE CATCH BASIN	EXISTING WATER MAIN	2022-11-30 REVISED PER CITY REVIEW
0	EXISTING STORM SEWER	
<u> </u>	EX. R. Y. CATCH BASIN	
UTILITY POLE GUY POLE  GUY WIRE	EXISTING BURIED CABLES	
	OVERHEAD LINES	DRAWN BY:
**	LIGHT POLE	A. Panley
٩	SIGN	DESIGNED BY:
<del></del>	EXISTING GAS MAIN	A. Panley
$\cdot \times \cdot \times$	EXISTING UTILITY TO BE REMOVED	APPROVED BY:
. //. //. //. //.	EXISTING UTILITY TO	J. Longhurst
12" MAPLE	BE ABANDONED	DATE:
TZ MAI LL	INDICATES EXISTING TREE TO BE REMOVED	<u>December 1, 2021</u>
	INDICATES AREAS OF PAVEMENT, BUILDINGS, ETC. TO BE REMOVED	SCALE: 1" = 10'
	INDICATES AREAS OF EARTH DISTURBANCE AND GRADING	NFE JOB NO. SHEET







**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

JASON R.

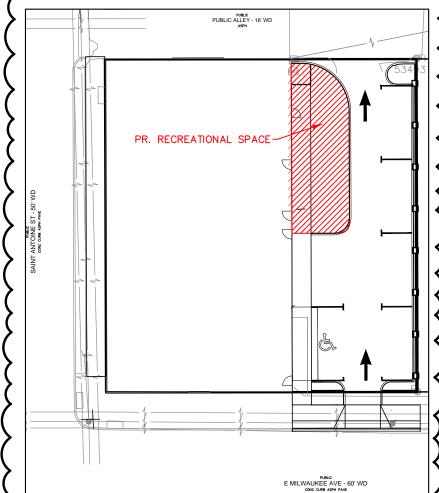
LONGHURST

ENGINEER

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 907 SF



PROJECT

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

CLIENT

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

RECREATIONAL SPACE RATIO EXHIBIT

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

City of Detroit,

Wayne County, Michigan

SHEET

Engineering Plan



**PAVING LEGEND** PROPOSED CONCRETE PAVEMENT

**ESTIMATED QUANTITIES** 

8" NON-REINFORCED CONCRETE ROW PAVEMEN

12" DIA. CLIV C-76 STORM SEWER PIPE

2' DIA. CATCH BASIN (CATCH BASIN A)

BUILD 4' DIA. MANHOLE OVER EX. PIPE

TP 600.00

FG 600.00

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

DESCRIPTION

4" ASPHALT ON 8" 21AA BASE

4" CONCRETE CURB & GUTTER

4" CONCRETE SIDEWALK

6" CONCRETE SIDEWALK

8" CONCRETE APRON

(CATCH BASIN B)

SCALE 1"=30'

PAVING

STORM

PROPOSED ASPHALT PAVEMENT

790

12

262

S.Y.

		•	
LEGEND			
MANHOLE S	EXISTING SANITARY SEWER		
HYDRANT	SAN. CLEAN OUT		
GATE VALVE —	EXISTING WATERMAIN		
MANHOLE CATCH BASIN	EXISTING STORM SEWER		
<u>X</u>	EX. R. Y. CATCH BASIN		
UTILITY POLE GUY POLE GUY WIRE	EXISTING BURIED CABLES	(	
	OVERHEAD LINES		
	LIGHT POLE		
4	SIGN		
 CO MANHOLE	EXISTING GAS MAIN		
——————————————————————————————————————	PR. SANITARY SEWER		
	PR. WATER MAIN		
NLET C.B. MANHOLE	PR. STORM SEWER		
<b>*</b>	PR. R. Y. CATCH BASIN		
	PROPOSED LIGHT POLE		
TC 600.00	PR. TOP OF CURB ELEVATION		
[GU 600.00]			
TW 600.00	PR. GUTTER ELEVATION		
[1W 000.00]	PR. TOP OF WALK ELEVATION	1	

PR. TOP OF PVMT. ELEVATION

FINISH GRADE ELEVATION

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

2022-10-25 REVISED PER CITY REVIEW 2022-10-26 REVISED PER OWNER 2022-11-08 REVISED PER CITY REVIEW 2022-11-30 REVISED PER CITY REVIEW DRAWN BY: A. Panley

**DESIGNED BY:** A. Panley APPROVED BY: J. Longhurst DATE: December 1, 2021 SCALE: 1'' = 10' / 1'' = 1'10 5 0 5 10

NFE JOB NO. SHEET NO.

FENCING AND LANDSCAPING WILL BE PART OF A DEFERRED SUBMITTAL.

FENCING AND LANDSCAPING

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

UTILITY CROSSING NOTE AT LOCATIONS WHERE THERE ARE CROSSING WITH EXISTING UTILITIES AND 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 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

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

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

IN SEPARATE TRENCHES.

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.

**GENERAL PAVING NOTES** 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 YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF

3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES. ASPHALT: BASE COURSE - MDOT HMA 4E1, 20AA; SURFACE COURSE - MDOT HMA 5F1, 20AA: ASPHALT CEMENT PENETRATION GRADE 58-22, BOND COAT - MDOT SS-1H EMULSION AT 0.10 GALLON PER

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 PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

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

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.

THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION. ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH

SHALL BE INSTALLED AS INDICATED ON THE PLANS. 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.

CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

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

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

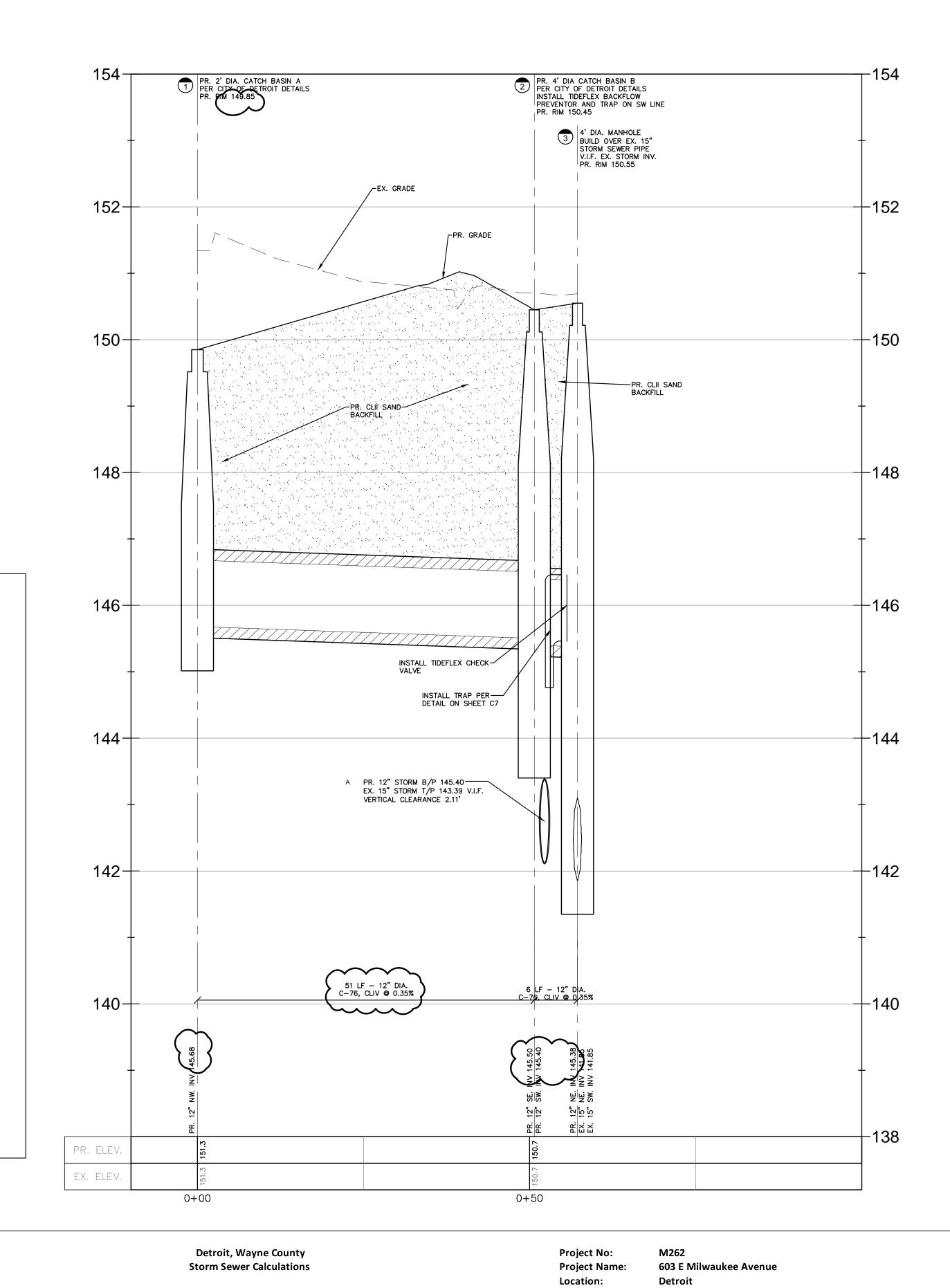
EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND RÉMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL

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.

ALL PAVEMENT AREAS SHALL BE PROOF—ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

Storm Drainage Structure Schedule					
Structure Name	Structure Details				
#1 PR. 2' DIA. CATCH BASIN A PER CITY OF DETROIT DETAILS	PR. RIM 149.85 PR. 12" NW. INV. 145.68				
#2 PR. 4' DIA CATCH BASIN B PER CITY OF DETROIT DETAILS INSTALL TIDEFLEX BACKFLOW PREVENTOR AND TRAP ON SW LINE	PR. RIM 150.45 PR. 12" SE. INV. 145.50 PR. 12" SW. INV. 145.40				
#3 4' DIA. MANHOLE BUILD OVER EX. 15" STORM SEWER PIPE V.I.F. EX. STORM INV.	PR. RIM 150.55 PR. 12" NE. INV. 145.38 EX. 15" NE. INV. 141.85 EX. 15" SW. INV. 141.85				
BUILD OVER EX. 15" STORM SEWER PIPE	EX. 15" NE. INV. 141.8				



12/1/2021

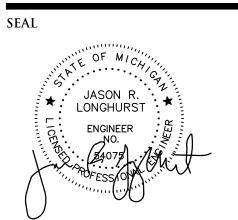
11/30/2022

Dated:

Revised:



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



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

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 2022-09-27 REVISED PER ROW REVIEW 2022-10-25 REVISED PER CITY REVIEW

2022-10-26 REVISED PER OWNER 2022-11-08 REVISED PER CITY REVIEW 2022-11-30 REVISED PER CITY REVIEW

DRAWN BY: A. Panley **DESIGNED BY:** 

A. Panley APPROVED BY:

J. Longhurst DATE: December 1, 2021

SCALE: 1'' = 10' / 1'' = 1'10 5 0 5 10

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

Head Loss Structure Hm=Km(V^2 / 2g) Drainage Drainage From Rainfall Actual Pipe Pipe Pipe Flow Full Time of Full Pipe H. G. Elev. H. G. Elev. H. G. Runoff Equivalent Total Head Loss Head Loss Theoretical Rim Change in Invert Elev. Invert Elev. COVER RIM TO HG Km Area Structure Structure Concentration Intensity Discharge Size Slope Length Velocity Flow Capacity Upper End Lower End Slope Table 5-7 at Str Friction Velocity Elevation Elevation Upper End Lower End Area (Location) Number Number (C \* A) (Sum C \* A) (Minutes) (Inches/Hr.) (CFS) (Inches) (% Slope) (Feet) (Ft / Sec) (Minutes) (CFS) (Feet) (% Slope) (Feet) (Feet) (Feet) (Acres) 0.09 0.086 12 0.35 51 2.91 0.29 2.28 146.21 146.20 0.02 0.00 0.01 0.61 149.85 145.68 145.50 3.00 0.01 0.00 0.61 150.45 0.02 145.40 145.38 3.88 4.26

ITEM QTY.

SEE NOTE #1

18.00" [457.2mm

\* PATENT PENDING \*

PROPRIETARY NOTICE

T min= 5 Minutes

n (Conc.)

n (Pvc)

PIPE I.D.

SEE NOTE #2

2.00" [51mm] —

PIN PER NOTE #4

RECOMMENDED PINNING CONFIGURATION

(SUPPLIED BY CUSTOMER) (SEE I.O.M.)

NOT TO SCALE

CUSTOMER: XXX

ORDER No: XXX

HÉX HEAD BÖLTS

BILL NOTCH

2 1 CLAMP

DESCRIPTION

1 | 1 | ULTRAFLEX CHECKMATE CHECK VALVE | MUST BE SUPPLIED

**GROOVES** 

BILL NOTCH -

**GROOVES** 

BILL NOTCH

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF TIDEFLEX TECHNOLOGIES.

IT PRODUCT: 10" ULTRAFLEX CHECKMATE CHECK VALVE

THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD

THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD

THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD.

38.4164\*(10^0.2082)/((12.3258 + D)^0.8405)

Head Loss Friction Hf=L(Qn/(0.46D^2.67))^2

1. PIPE INSIDE DIAMETER - MUST BE SUPPLIED

DEPENDING ON INSTALLATION ORIENTATION

TO PIPE AS SHOWN, 4 PLACES 90° APART

(MINIMUM ALLOWABLE PIPE DIAMETER - 9.50 INCHES) 2. CLAMP INSTALLED IN UPSTREAM OR DOWNSTREAM CUFF

3. MAXIMUM ALLOWABLE BACK PRESSURE - 71.0 FEET

4. IT IS RECOMMENDED TO BOLT OR PIN CHECKMATE

MUST BE SUPPLIED

PRELIMINARY DRAWING

Time of Concentration

10 Year Storm Event Intensity

Manning's Roughness Coefficient

Manning's Roughness Coefficient

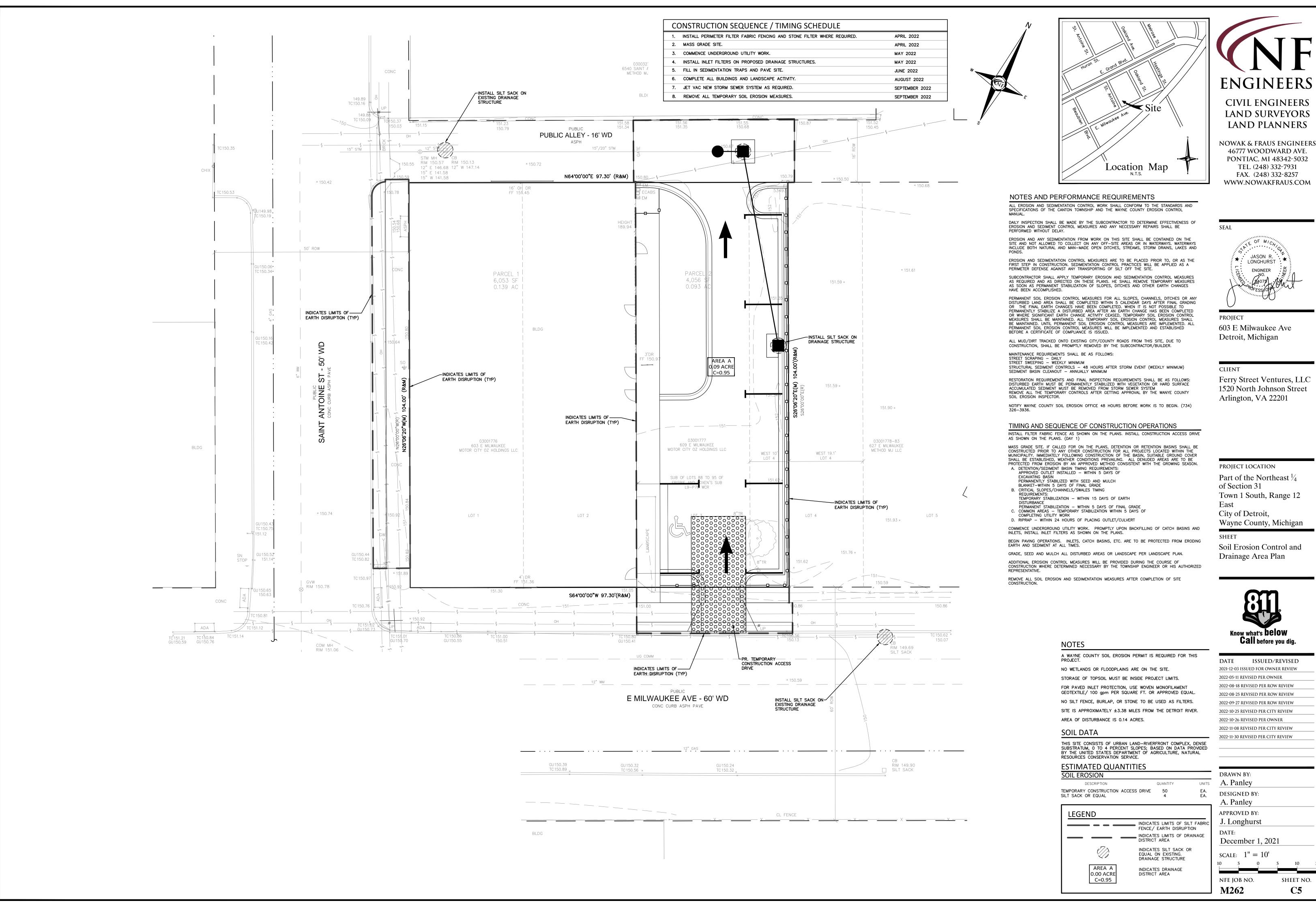
OPPORTUNITY No: XXXXX | SALES ORDER No: TXX-XXXX

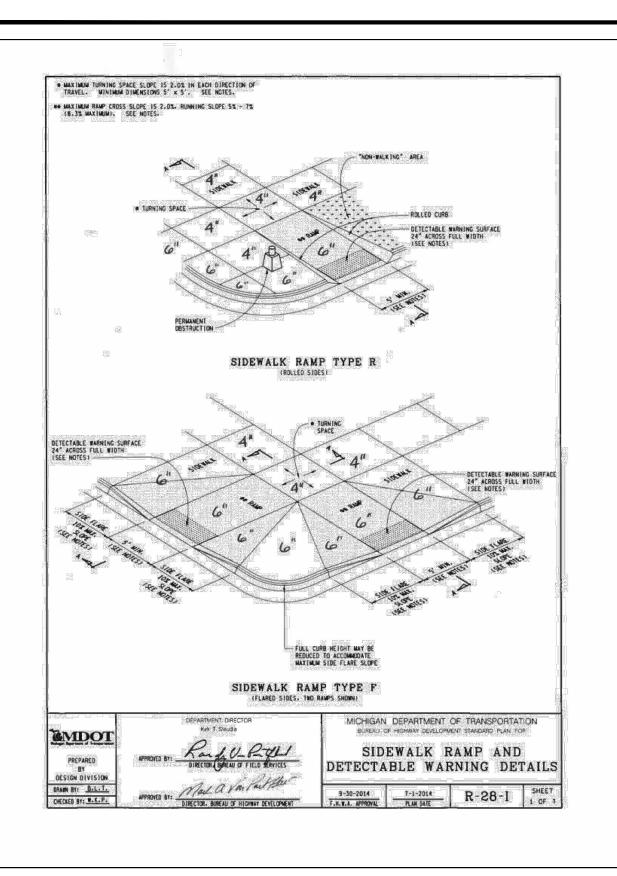
Technologies

NOT FOR APPROVAL PURPOSES

info@tideflex.com 412.279.0044

fax 412.279.5410





PLAN VIEW OF COVER

SECTION A-A

EAST TORDAN 00104050L01 ERGO COVER AND FRAME OR APPROVED EQUAL.

MANHOLE FRAME

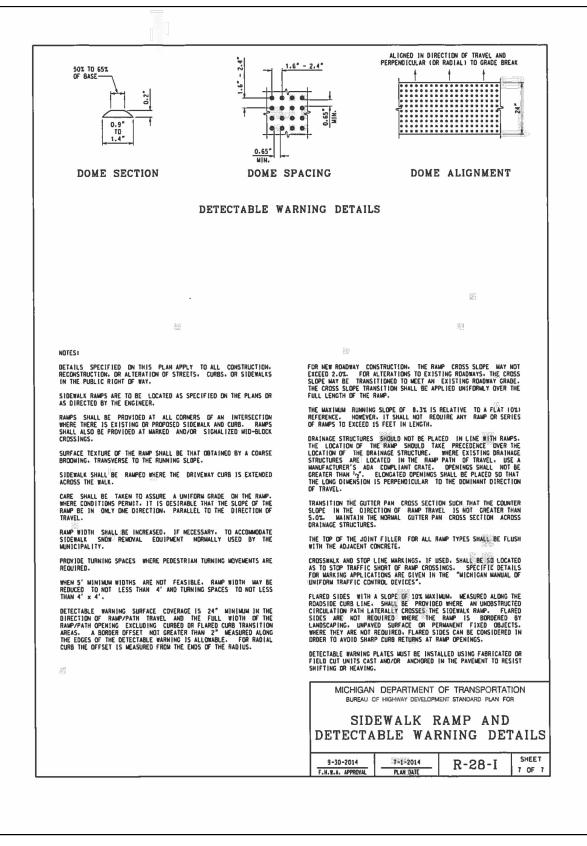
AND COVER

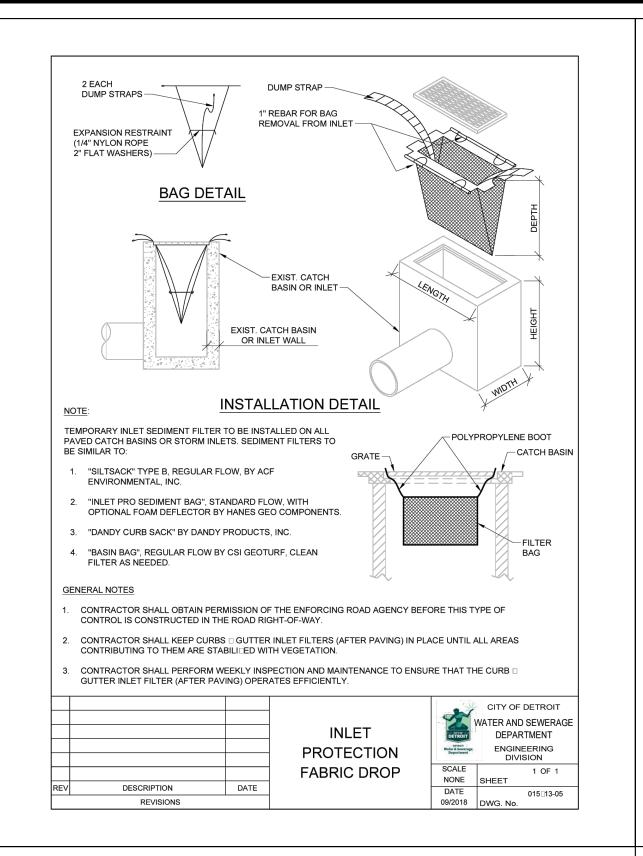
WITH LOGO

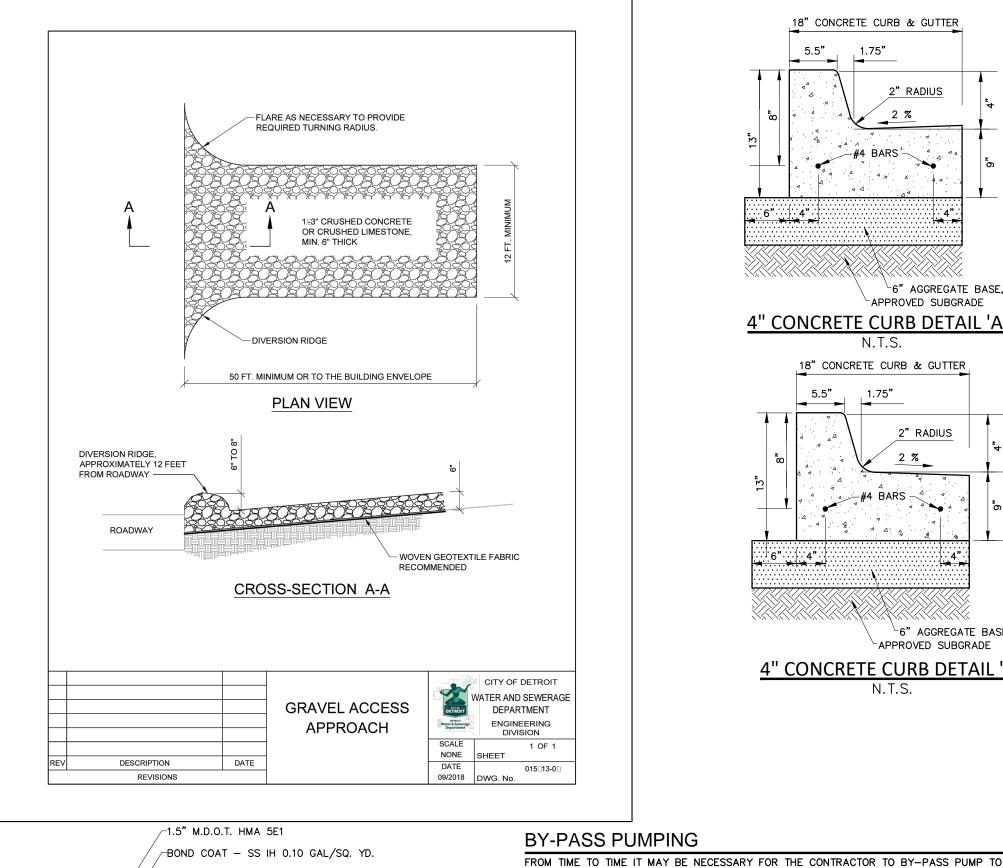
- SEWER

**FULLY OPENED** 

REMOVAL POSITION @ 120°







 $^-$ 2.5" M.D.O.T. HMA 4E1 or LVSP BASE

<sup>∼</sup>8" AGGREGATE BASE, 21AA

**ASPHALT PAVEMENT SECTION** 

√8" AGGREGATE BASE, 21AA

PROOF-ROLLED SUB BASE

WALK WIDTH AS CALLED FOR ON PLANS

∨ PROOF-ROLLED SUB BASE

EXISTING/PROPOSED

ASPHALT PAVEMENT

1/4" PER FOOT TOWARD STREET

CONCRETE SIDEWALK SECTION

DRAINAGE STRUCTURE PER-

MUNICIPALITY STANDARD

CURB & GUTTER SECTION

DEPARTMENT

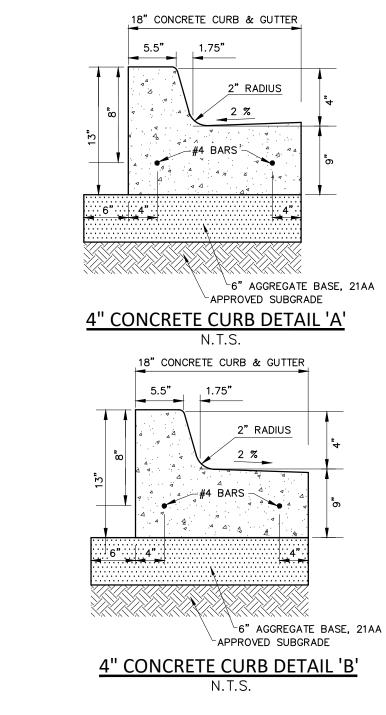
DIVISION

330561-02

ENGINEERING

CONCRETE PAVEMENT SECTION

-8" CONCRETE PAVEMENT (3500 PSI MIN.)



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

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** 

- CLASS A CONCRETE

(3500 PSI MIN.)

- M.D.O.T. CLASS II

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

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

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

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

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

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.

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

TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PLANS AND/OR

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER THE SITE

THE CASE OF CONFLICTING REQUIREMENTS. THE MORE STRINGENT SHALL APPLY.

SOIL EROSION / SEDIMENTATION CONTROL

SPECIFICATIONS. TRENCH BACKFILL SHALL ALSO BE INSTALLED IN CONFORMANCE WITH THE

COMMUNITY REQUIREMENTS OR AGENCY/UTILITY GOVERNING SAID TRENCH CONSTRUCTION. IN

EARTHWORK BALANCES OR NOT. ANY EXCESS CUT MATERIAL SHALL BE DISPOSED OF BY THE

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

REGULATORY REQUIREMENTS FOR CONTROLLING SOIL EROSION AND SEDIMENT TRANSPORT. THE

CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS. THE ENGINEER AND OWNER AR

WITH SATISFYING THE SOIL EROSION PERMIT REQUIREMENTS UNLESS SPECIFICALLY STATED IN

NOT RESPONSIBLE FOR INSPECTION OR APPROVAL OF THE CONTRACTOR'S WORK IN CONNECTION

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

THE CONTRACTOR SHALL OBTAIN THE REQUIRED SOIL EROSION PERMIT AND SATISFY ALL

CONTRACTOR. IN A LIKE MANNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT

SUB-SOIL INVESTIGATION AND SECURE OTHER SUCH INFORMATION AS THE CONTRACTOR

SUBGRADE UNDERCUTTING AND PREPARTION

TO PROVIDE A SUBGRADE IN CONFORMANCE WITH THE PROJECT PLANS AND/OR

REPAIR ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

AT THE LOCATION OF THE BORING ON THE DATE THEY WERE TAKEN.

SUB-SOIL CONDITIONS

STRUCTURE BACKFILL

EARTH BALANCE / GRADING

HAS JURISDICTION OVER THE WORK.

TRENCH BACKFILL

EARTHWORK IS BALANCED.

THE CONTRACT DOCUMENTS.

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

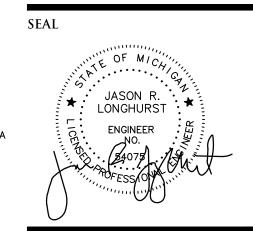
PRICE(S) UNLESS SPECIFIC TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ACCEPTED BID

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



TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



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

CLIENT

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

of Section 31 Town 1 South, Range 12 East

Part of the Northeast 1/4

City of Detroit, Wayne County, Michigan

SHEET

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2022-11-08 REVISED PER CITY REVIEW 2022-11-30 REVISED PER CITY REVIEW

DRAWN BY:

**DESIGNED BY:** 

APPROVED BY:

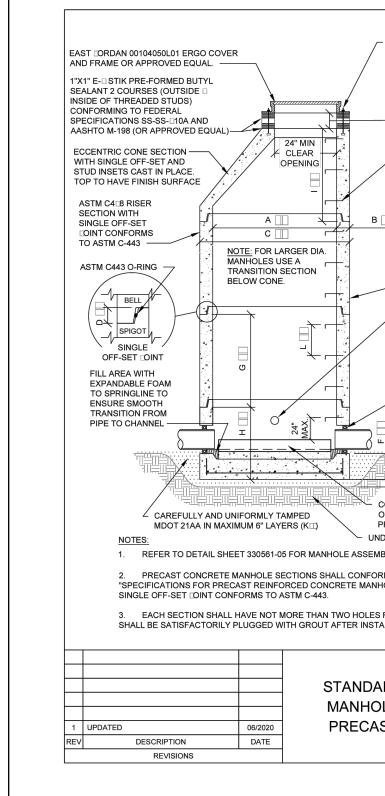
J. Longhurst December 1, 2021

SCALE: N.T.S.

NFE JOB NO. SHEET NO.

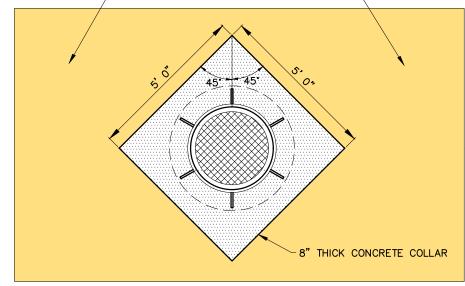
**C6** 

FOUR CADMIUM COATED 5/8" DIA. THREADED STUDS WITH 3/4" X 2" X 1/8" THICK METAL WASHER, 3/4" X 2" X 1/16" THICK NEOPRENE AND FRAME OR APPROVED EQUAL. — SEALING WASHER AND NUTS, STUDS TO BE DOG HOUSE OPENING 1"X1" E- STIK PRE-FORMED BUTYL INSTALLED IN FOUR THREADED INSERTS PLACED WHEN CASTING ON CONE SECTION SEALANT 2 COURSES (OUTSIDE I MANHOLE SI□ING INSIDE OF THREADED STUDS) SEWER SI□E | MAX OPENIN SEWER MANHOLE " (MIN.) OR 6" CONCRETE GRADE RINGS WITH CONFORMING TO FEDERAL SPECIFICATIONS SS-SS-□10A AND FINISH TOP AND BOTTOM SURFACES (8" DEEP). MAX. AD USTMENT 🗆 18" FOR OTHER DETAILS OF AASHTO M-198 (OR APPROVED EQUAL) 20" MANHOLE, SEE STANDAF 18" - 24" 30" ANHOLE DETAIL 330561-ECCENTRIC CONE SECTION -MANHOLE STEPS TO BE PLASTIC WITH SINGLE OFF-SET AND COATED STEEL MEETING THE STUD INSETS CAST IN PLACE REQUIREMENTS IN ASTM D4101, TYPE TOP TO HAVE FINISH SURFACE II, GRADE 49108, MA. INDUSTRIES P.S. POLYPROPYLENE, (OR APPROVED EQUAL). STEPS TO BE INSTALLED ASTM C4 8 RISER DURING MANHOLE MANUFACTURE PLACE AT 16" CEN. TO CEN. 45° FROM DOG HOUSE OPENING FOR SINGLE OFF-SET SEWER PIPE SHALL BE CENTERLINE OF SEWER. FIRST STEP TO BE PLACED AT A MAXIMUM I.D. OF MANHOLE TO ASTM C-443 -SECTION. AFTER PLACING NOTE: FOR LARGER DIA. DISTANCE OF 21" FROM THE FINISHED RIM ELEVATION ASTM C443 O-RING TRANSITION SECTION NON-SHRINK MORTAR -BELOW CONE. MANHOLES ASTM C4⊡8 CONCRETE FLOW MANHOLE MANUFACTURER SHALL CHANNEL UP TO INSTALL 1" DIA. GALVANI TED STEEL PIPE WITH 3/4" TO WITH OUTSIDE WALL AND EXTENDING 1 1/4" GAP AT PIPI ENDS PROVIDED AFTER COMPLETION OF TESTS. TO MAINTAIN FILL AREA WITH OINT FLEXIBILITY EXPANDABLE FOAM 3500 P.S.I. CONCRETE - KOR-N-SEAL BOOT WITH ENSURE SMOOTH STAINLESS STEEL KORBAND FLEXIBLE RUBBER COINTS, C-LOK PIPE TO CHANNEL OR APPROVED EQUAL (TYP.) MIN. 4" MDOT 21AA BEDDING UNDER MANHOLE BASE - 3500 P.S.I. CONCRETE CAST IN 6" MDOT 21AA BEDDING-CONCRETE FLOW CHANNEL UP TO SPRING LIN OF PIPE WITH 3/4" TO 1 1/4" GAP AT PIPE ENDS PRECAST CONFORM TO ASTM C478 CAREFULLY AND UNIFORMLY TAMPED PROVIDED TO MAINTAIN COINT FLEXIBILITY MDOT 21AA IN MAXIMUM 6" LAYERS (K□) - PRECAST OR CAST IN PLACE BASE 1. REFER TO DETAIL SHEET 330561-05 FOR MANHOLE ASSEMBLY TABLE  $\Box$ PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ALL THE REQUIREMENTS OF SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE RISERS AND TOPS" ASTM C-413 WITH 1. DOG HOUSE MAY BE USED OVER EXISTING SEWER PIPE. NEW PIPE OPENINGS SHALL BE MANUFACTURED WITH SINGLE OFF-SET COINT CONFORMS TO ASTM C-443. 3. EACH SECTION SHALL HAVE NOT MORE THAN TWO HOLES FOR HANDLING PURPOSES. THESE HOLES SHALL BE SATISFACTORILY PLUGGED WITH GROUT AFTER INSTALLATION. CITY OF DETROIT CITY OF DETROIT MANHOLE, WATER AND SEWERAGE WATER AND SEWERAGE **OVER EXISTING** STANDARD DEPARTMENT ENGINEERING **SEWER** MANHOLE DIVISION SCALE **PRECAST** NONE SHEET
DATE NONE SHEET
DATE 330561-08 REVISIONS 09/2018 DWG. No

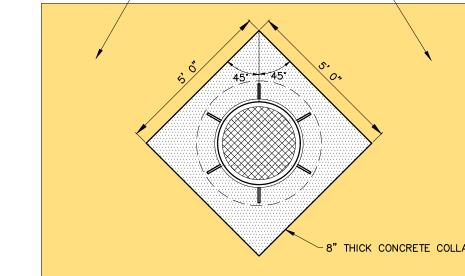


DRAINAGE STRUCTURE BOXOUT DETAIL I

-EXISTING/ PROPOSED ASPHALT PAVEMENT-



8" THICK CONC. COLLAR



DRAINAGE STRUCTURE BOXOUT DETAIL II

# UTILITIES

ENGINEERING

NONE SHEET
DATE

DIVISION

330561-03

AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY MISS DIG AND THE LOCAL COMMUNITY (WHERE APPLICABLE) TO STAKE LOCATIONS OF EXISTING UTILITIES.

8" - 10"

12" - 15"

CAST IN MANHOLE

PIPE ON BASE FILL

AROUND PIPE WITH

(SEE NOTE 1)

UNDISTURBED GROUND

MDOT 21AA OR FLOWABLE

BACKFILL TO 12" ABOVE

HIGHEST OPENING —

THE CONTRACTOR SHALL EXPOSE AND VERIFY EXISTING UTILITIES FOR LOCATION, SIZE, DEPTH, MATERIAL AND CONFIGURATION PRIOR TO CONSTRUCTION. COSTS FOR EXPLORATORY EXCAVATION IS AN INCIDENTAL COST AND SHALL NOT BE CONSIDERED AN EXTRA TO THE

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

UTILITY DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR, IN CONFORMANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY PROVIDER.

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE. ANY SERVICE OR

# DAMAGE TO PRIVATE PROPERTY

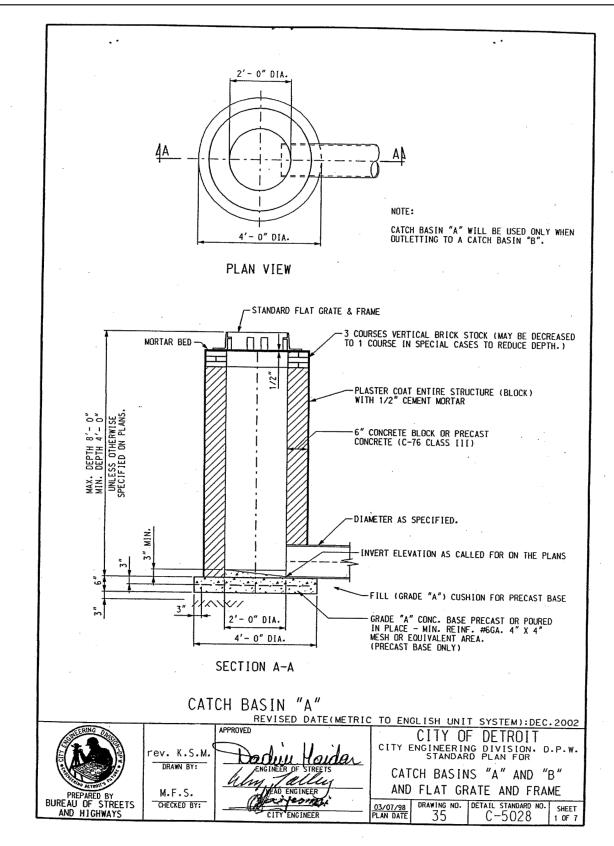
NOTE:

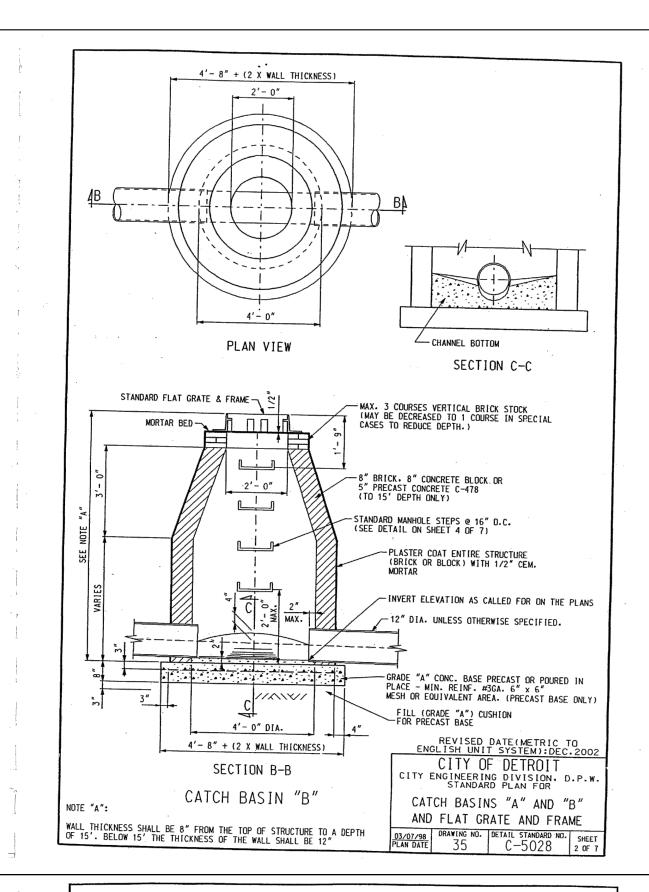
ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING, ETC., THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND SHALL NOT BE AN EXTRA TO THE CONTRACT. THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS

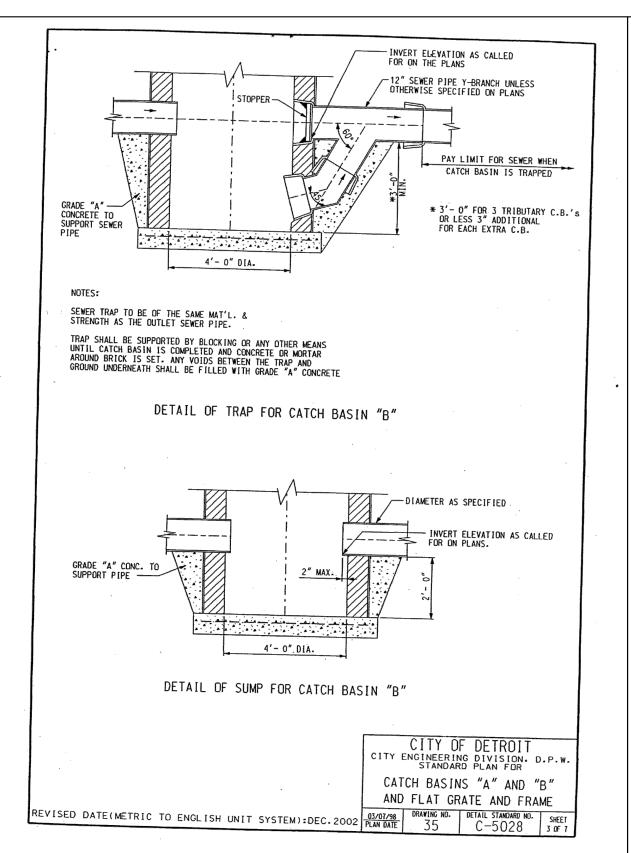
PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE

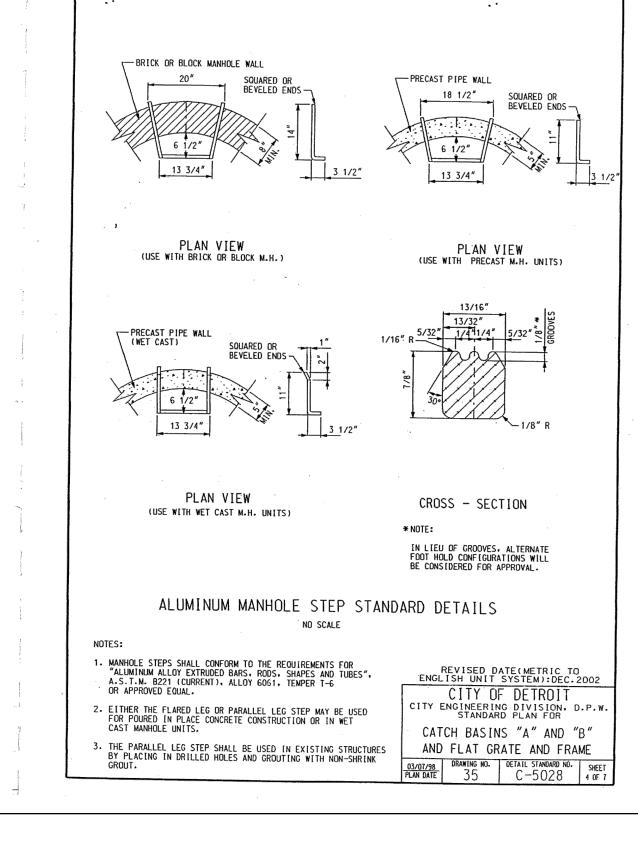
ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS. DEWATERING OF TRENCH AND EXCAVATIONS IF NOT SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION DESIGN DOCUMENTS, THE DESIGN OR QUALITATIVE ANALYSIS OF GROUND WATER DEWATERING SYSTEMS IS BEYOND THE SCOPE OF DESIGN FOR THESE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND PROVIDING APPROPRIATE EXCAVATION DEWATERING SYSTEMS FOR USE DURING

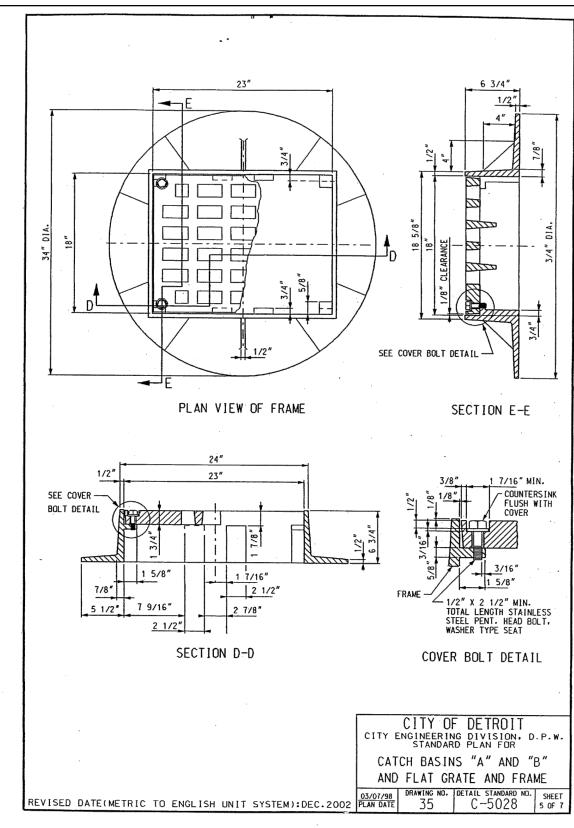
THE DEWATERING METHOD SELECTED BY THE CONTRACTOR WILL NOT ADVERSELY AFFECT ADJACENT PAVEMENTS OR STRUCTURES PRIOR TO BEGINNING DEWATERING CONDITIONS. MEANS AND METHODS OF DEWATERING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF DEWATERING WILL BE CONSIDERED INCLUDED IN THE WORK OF CONSTRUCTING THE UNDERGROUND UTILITIES UNLESS SPECIFICALLY INDICATED OTHERWISE.

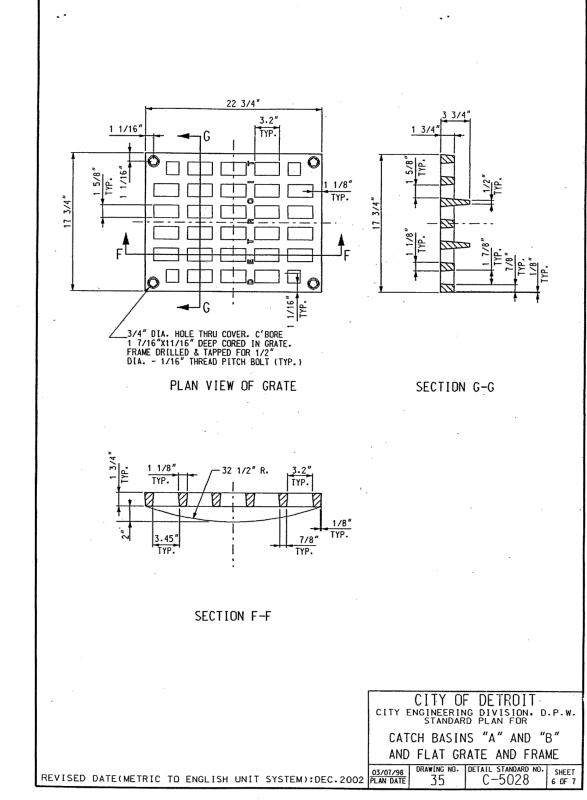


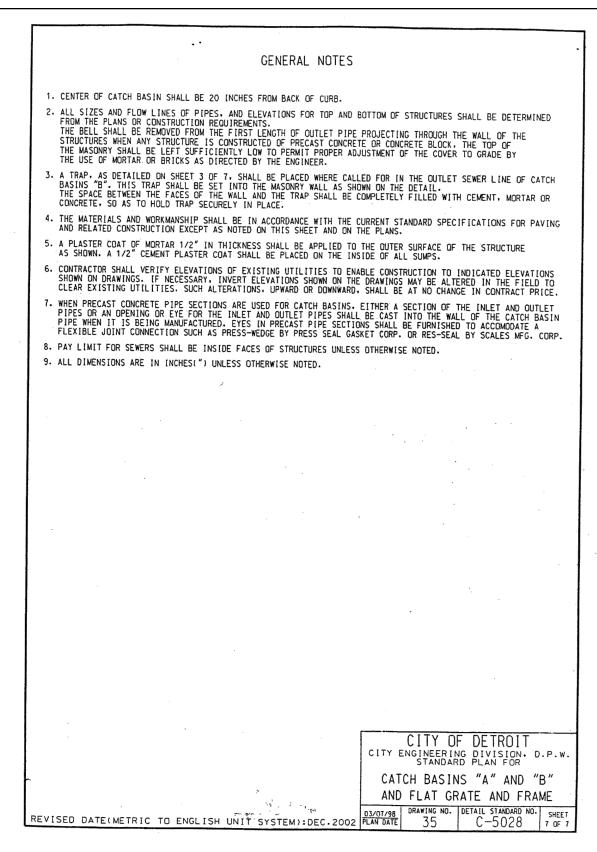


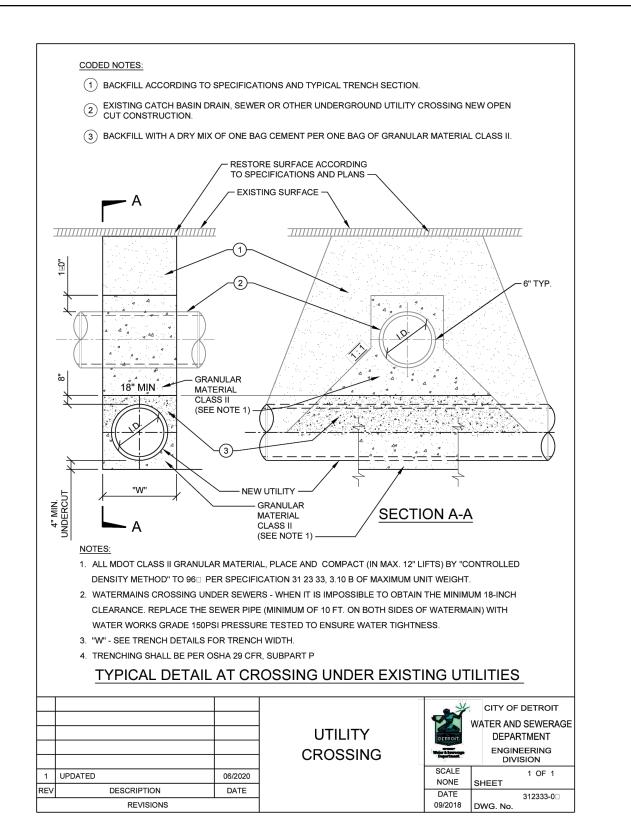


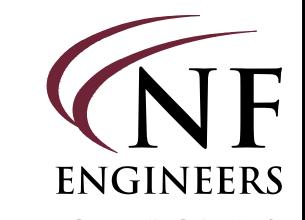












CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

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



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

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2022-11-30 REVISED PER CITY REVIEW

DRAWN BY:

**DESIGNED BY:** 

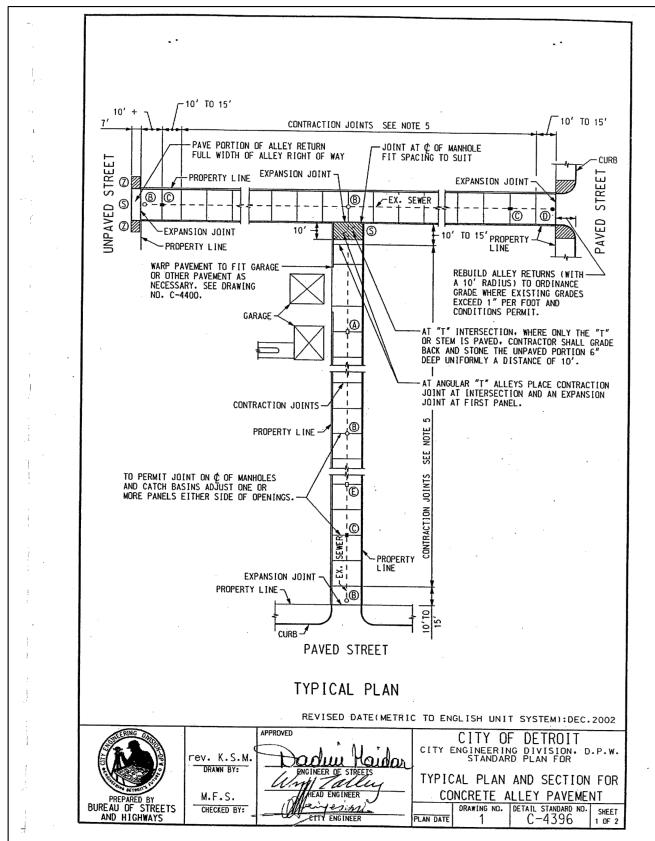
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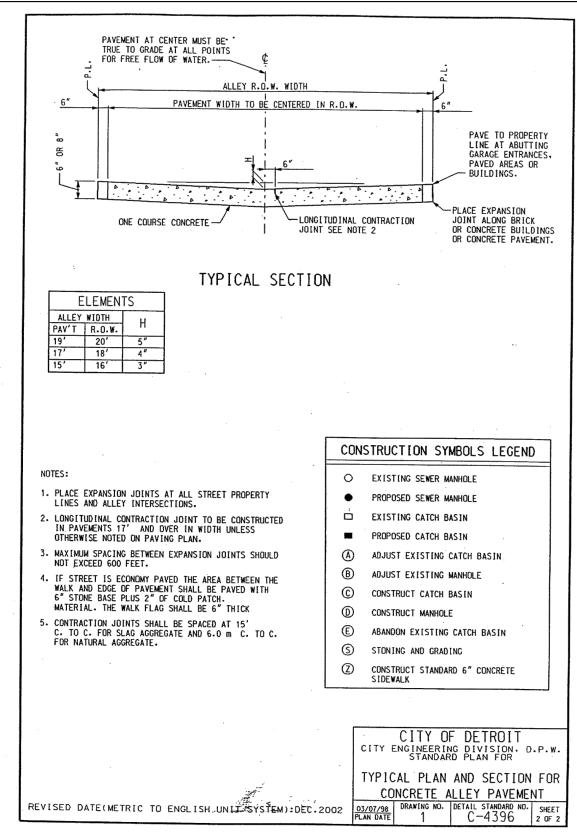
J. Longhurst December 1, 2021

SCALE: N.T.S.

NFE JOB NO. **M262** 

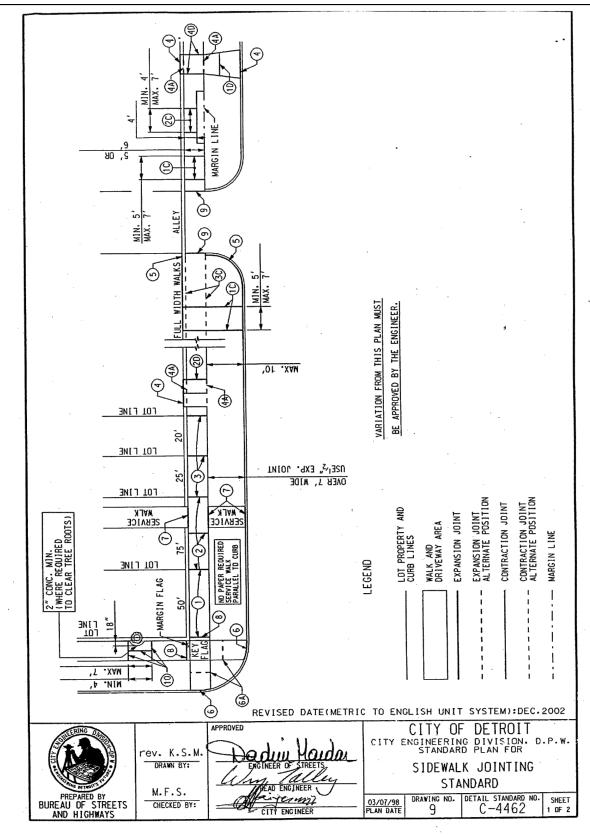
SHEET NO. **C7** 

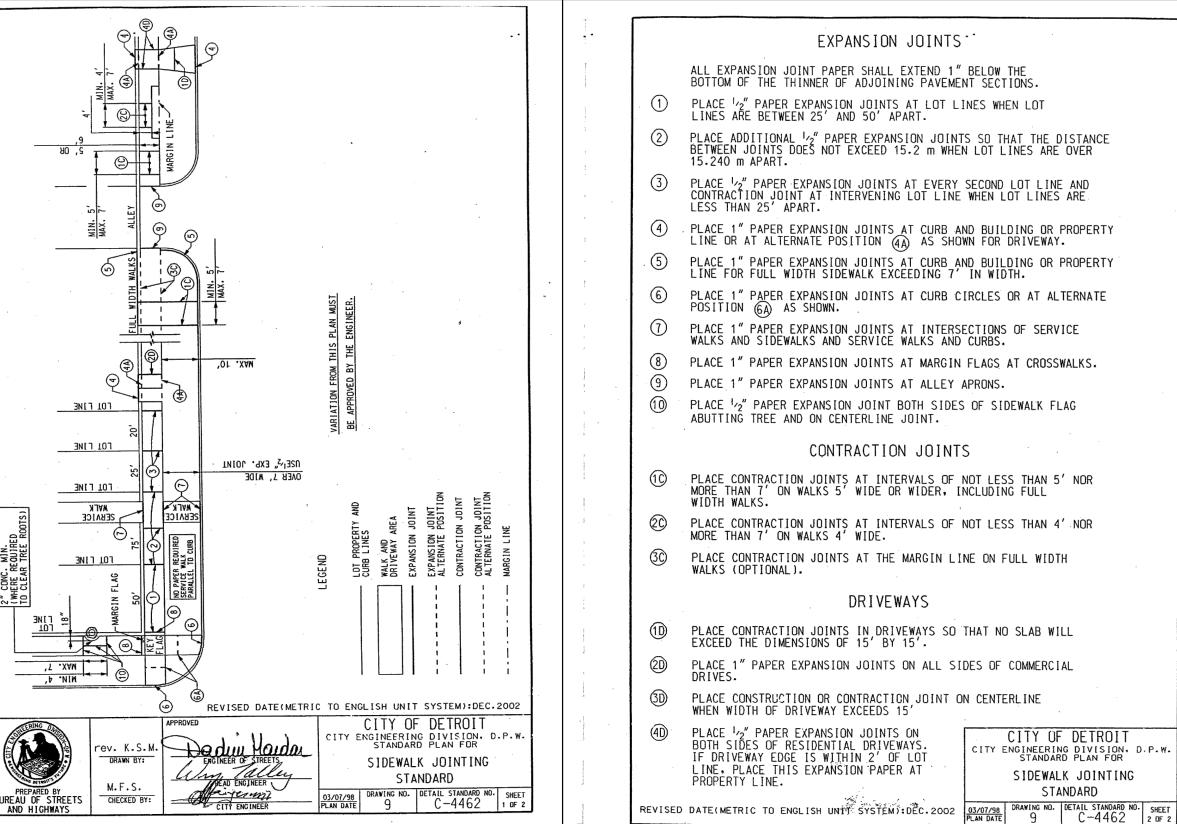


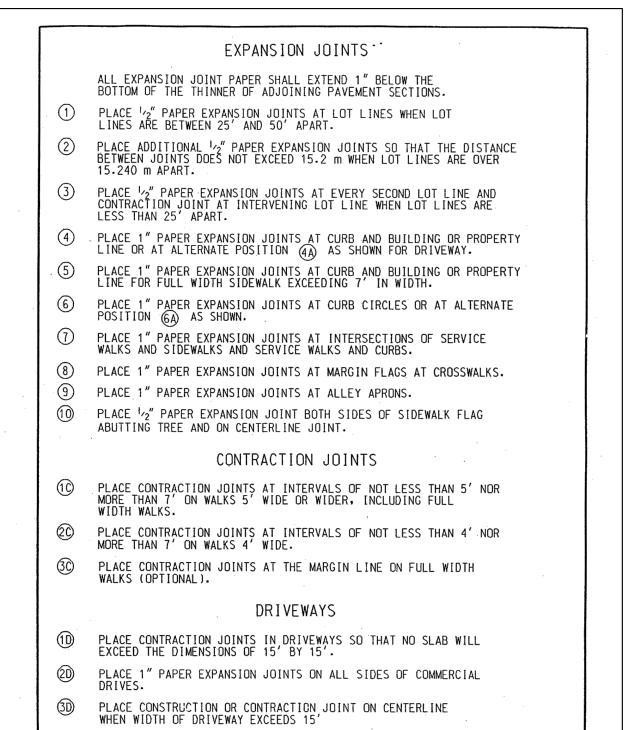


AND DRIVE APPROACH

03/07/98 DRAWING NO. DETAIL STANDARD NO. SHEET 7 C-4384 2 DF 2







CITY OF DETROIT
CITY ENGINEERING DIVISION, D.P.W.
STANDARD PLAN FOR

SIDEWALK JOINTING

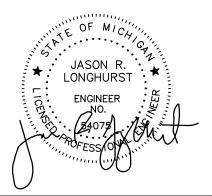
STANDARD



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LAND SURVEYORS

LAND PLANNERS



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2022-11-30 REVISED PER CITY REVIEW

DRAWN BY:

**DESIGNED BY:** 

APPROVED BY: J. Longhurst

DATE: December 1, 2021

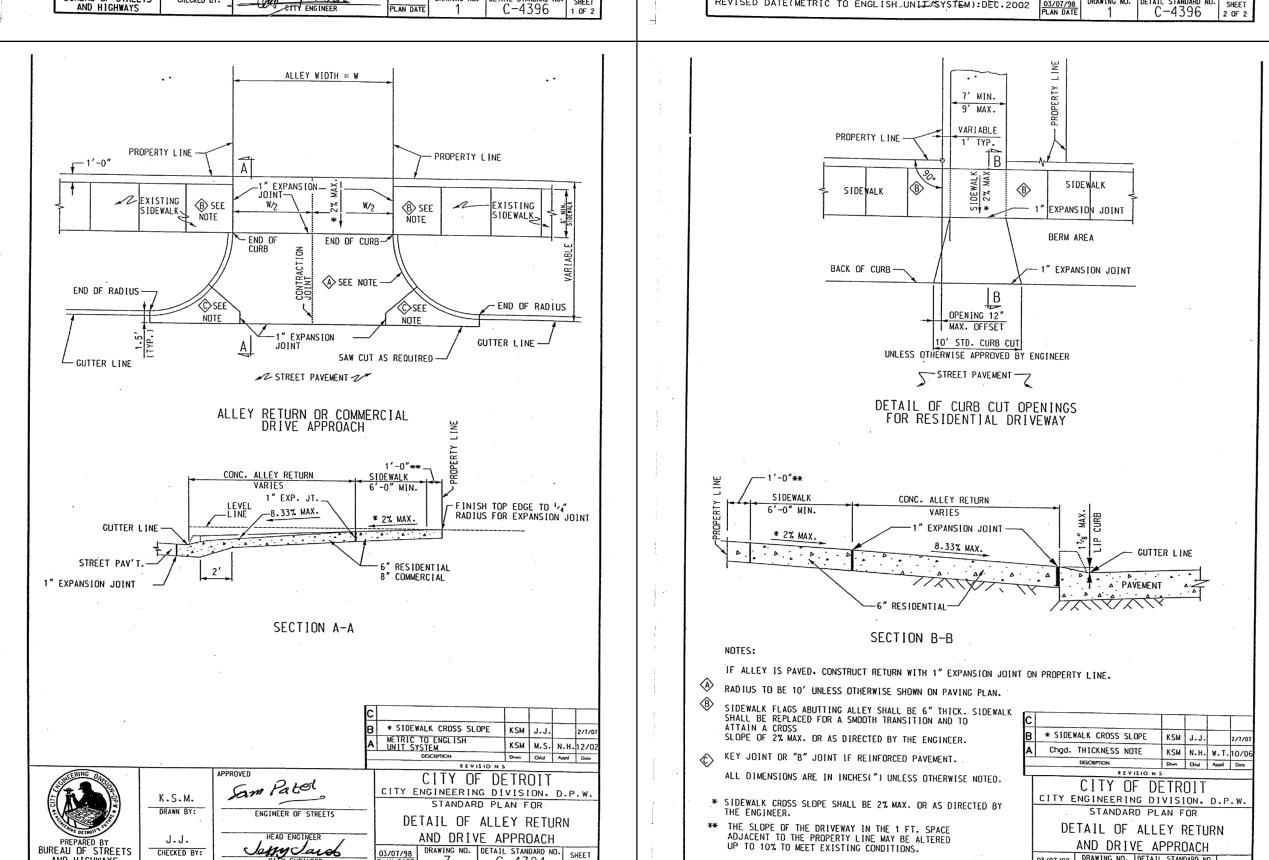
SCALE: N.T.S.

NFE JOB NO.

SHEET NO.

**C8** 

**M262** 



REVISED DATE(METRIC TO ENGLISH UNIT SYSTEM):DEC.2002

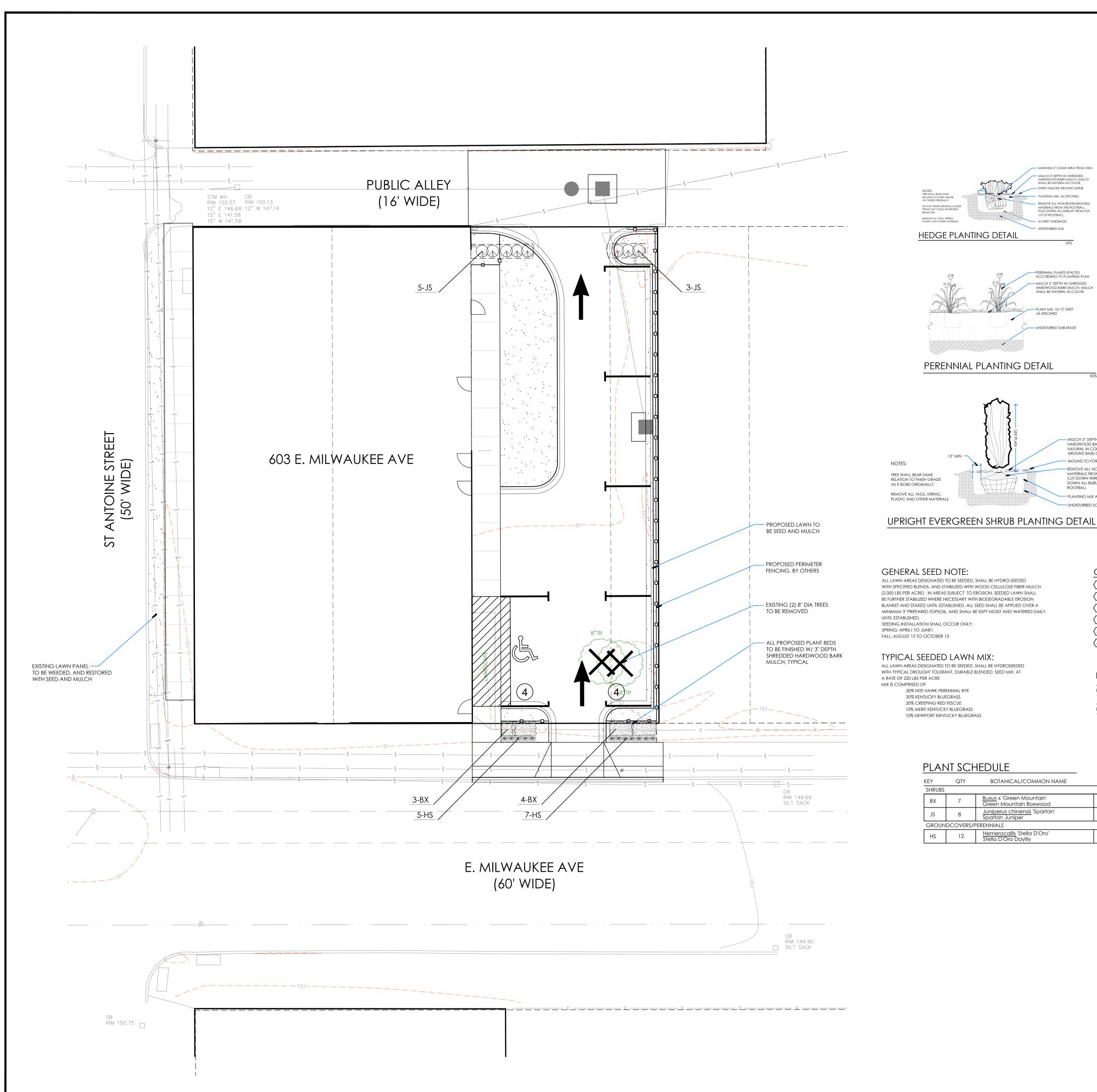
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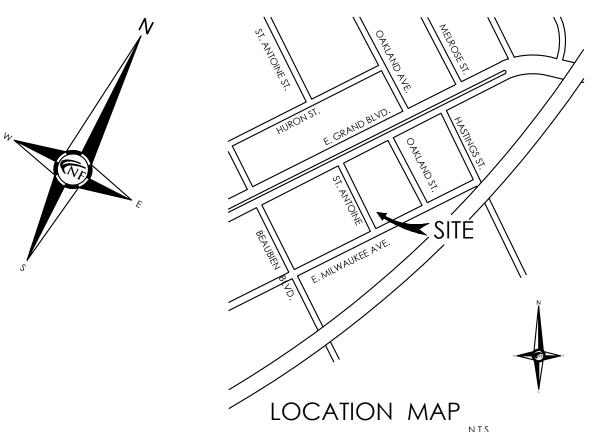
O3/07/98 DRAWING ND. DETAIL STANDARD NO. SHEET C-4384 1 DF 2

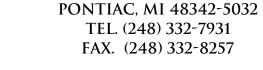
Jessy Jacob CITY ENGINEER

PREPARED BY
BUREAU OF STREETS
AND HIGHWAYS

CHECKED BY:







PROJECT

CLIENT

603 E Milwaukee Ave

Ferry Street Ventures, LLC

1520 North Johnson Street

Arlington, VA 22201

PROJECT LOCATION

of Section 31

City of Detroit,

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

Town 1 South, Range 12

Wayne County, Michigan

Detroit, Michigan

**ENGINEERS** 

**CIVIL ENGINEERS** 

LAND SURVEYORS

LAND PLANNERS

**NOWAK & FRAUS ENGINEERS** 

46777 WOODWARD AVE.

### GENERAL LANDSCAPE NOTES

- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, THE PLAN SHALL GOVERN QUANTITIES. CONTACT THE LANDSCAPE ARCHITECT WITH ANY
- CONCERNS.
  2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES
- 2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK, ANY DAMAGE OR INTERUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

  3. THE CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES, AND SHALL REPORT ANY UNACCEPTACBLE SITE CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT.

  4. PLANTS SHALL BE FULL, WELL-BRANCHED, AND IN HEALTHY VIGOROUS CEPTAINS OF CONDITIONS.
- 4. PLANTS SHALL BE FULL, WELL-BRANCHED, AND IN HEALTHY VIGOROUS GROWING CONDITION.
  5. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE.
  6. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) YEAR FOLLOWING PLANTING.
  7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN THE MOST PECFOR PULLIPOL OF THE "MAREYICAN STANDARDS FOR MURSTED STOCK"
- 7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN THE MOST RECENT EDITION OF THE "AMERICAN STANDARDS FOR NURSERY STOCK".

  8. CONTRACTOR WILL SUPPLY FINISHED GRADE AND EXCAVATE AS NECESSARY TO SUPPLY PLANT MIX DEPTH IN ALL PLANTING BEDS AS INDICATED IN PLANT DETAILS AND A DEPTH OF 4" IN ALL LAWN AREAS.

  9. PROVIDE CLEAN BACKFILL SOIL, USING MATERIAL STOCKPILED ON-SITE. SOIL SHALL BE SCREENED AND FREE OF DEBRIS, FOREIGN MATERIAL, AND STONE.

  10. SLOW-RELEASE FERTILIZER SHALL BE ADDED TO THE PLANT PITS BEFORE
- BEING BACKFILLED. APPLICATION SHALL BE AT THE MANUFACTURERS RECOMMENDED RATES.

  11. AMENDED PLANT MIX (PREPARED TOPSOIL) SHALL CONSIST OF 1/3 SCREENED TOPSOIL,
- AMENDED PLANT MIX (PREPARED TOPSOIL) SHALL CONSIST OF 1/3 SCREENED TOPSOIL, 1/3 SAND, AND 1/3 "DAIRY DOO" COMPOST, MIXED WELL AND SPREAD TO A DEPTH AS INDICATED IN PLANTING DETAILS.
   ALL PLANTINGS SHALL BE MULCHED WITH SHREDDED HARDWOOD BARK, SPREAD TO A DEPTH OF 3" FOR TREES AND SHRUBS, AND 2" ON ANNUALS, PERENNIALS, AND GROUNDCOVER PLANTINGS. MULCH SHALL BE FREE FROM DEBRIS AND FOREIGN MATERIAL, AND PIECES ON INCONSISTENT SIZE.
   NO SUBSTITUTIONS OR CHANGES OF LOCATION, OR PLANT TYPE SHALL BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.
   THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS PRIOR TO INSTALLATION.
   THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT MATERIAL IN A VERTICAL CONDITION THROUGHOUT THE GUARANTEED PERIOD.
- IHE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINLAINING ALL PLANI MATERIAL IN A VERTICAL CONDITION THROUGHOUT THE GUARANTEED PERIOD.

  THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS AND/OR SPECIFICATIONS.

  THE LANDSCAPE CONTRACTOR SHALL SEED AND MULCH OR SOD (AS INDICATED ON PLANS) ALL AREAS DESIGNATED AS SUCH ON THE PLANS, THROUGHOUT THE CONTRACT LIMITS. FURTHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AREAS DISTURBED DUBBLE, CONSTRUCTION MORE AND THE CONTRACT OF SHALL BE RESPONSIBLE FOR RESTORING AREAS
- DISTURBED DURING CONSTRUCTION, NOT IN THE CONTRACT LIMITS, TO EQUAL OR GREATER CONDITION.

  18. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESSIVE WATER FROM PONDING ON LAWN AREAS OR AROUND TREES AND SHRUBS.

  19. ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND SYSTEM.

### GENERAL SEED NOTE:

NOTES:

TREE SHALL BEAR SAME RELATION TO FINISH GRADE

REMOVE ALL TAGS, STRING,

PLASTIC AND OTHER MATERIALS

AS IT BORE ORIGINALLY.

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDRO-SEEDED WITH SPECIFIED BLENDS, AND STABILIZED WITH WOOD CELLULOSE FIBER MULCH (2,000 LBS PER ACRE). IN AREAS SUBJECT TO EROSION, SEEDED LAWN SHALL BE FURTHER STABILIZED WHERE NECESSARY WITH BIODEGRADABLE EROSION BLANKET AND STAKED UNTIL ESTABLISHED. ALL SEED SHALL BE APPLIED OVER A MINIMUM 3" PREPARED TOPSOIL, AND SHALL BE KEPT MOIST AND WATERED DAILY UNTIL ESTABLISHED. SEEDING INSTALLATION SHALL OCCUR ONLY: SPRING: APRIL1 TO JUNE1

HEDGE PLANTING DETAIL

PERENNIAL PLANTING DETAIL

### TYPICAL SEEDED LAWN MIX:

10% NEWPORT KENTUCKY BLUEGRASS

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDROSEEDED WITH TYPICAL DROUGHT TOLERANT, DURABLE BLENDED SEED MIX, AT A RATE OF 220 LBS PER ACRE MIX IS COMPRISED OF 30% NITE HAWK PERENNIAL RYE 30% KENTUCKY BLUEGRASS

20% CREEPING RED FESCUE 10% MERIT KENTUCKY BLUEGRASS

### GROUNDCOVER KEY

- $\langle 1 \rangle$  TYPICAL SOD LAWN AREAS, SOWN ON 3" TOPSOIL
- 2 RESTORE EXISTING LAWN AREAS W/ HYDROSEED AND MULCH
- 4 3" DEPTH DOUBLE SHREDDED HARDWOOD BARK MULCH
- $\langle 5 \rangle$  3/4" 1 1/2" STONE MULCH, 3-4" DEPTH ON WEED BARRIER
- POSSIBLE SNOW DEPOSITION AREA, TO BE COORDINATED WITH REMOVAL SERVICE

ALL LANDSCAPE AREAS, INCLUDING THOSE WITHIN THE R.O.W. SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL OPERATE IN COMPLIANCE WITH LOCAL STANDARDS AND SEASONAL RESTRICTIONS, SEPARATE ZONES SHALL BE PROVIDED FOR LAWN AREAS AND PLANTING BEDS. IRRIGATION SHALL BE DESIGNED IN THE

### LANDSCAPE REQUIREMENTS

LANDSCAPE ABUTTING A R.O.W. 1 DECIDUOUS TREE PER 30 L.F. AND HEDGE VAN DYKE AVE: 111.04 L.F. REQUIRED: 111.04 L.F. / 30 L.F. = 3.7 OR 4 TREES REQUIRED PROVIDED: 4 TREES & EVERGREEN HEDGE (ORNAMENTAL TREES PROVIDED DUE TO OVERHEAD UTILITY LINES) GRINNELL AVENUE: 118.18 L.F. REQUIRED: 118.18 L.F. / 30 L.F. = 3.9 OR 4 TREES REQUIRED PROVIDED: 4 TREES & EVERGREEN HEDGE

PARKING LOT LANDSCAPE REQUIREMENTS 18 SPACES REQUIRE NO INTERIOR PARKING LANDSCAPE

(ORNAMENTAL TREES PROVIDED DUE TO OVERHEAD UTILITY LINES)

SHEET Landscape Plan

**REVISIONS** 

22-11-30 Revised Per City Review

DRAWN BY: G. Ostrowski

**DESIGNED BY:** G. Ostrowski APPROVED BY:

DATE: 11-28-2022

G. Ostrowski

SCALE: 1'' = 10'

**M262** 

SHEET NO.

HARDWOOD BARK, MULCH SHALL BE NATURAL IN COLOR. LEAVE 3" CLEAR AROUND BASE OF TREE.

REMOVE ALL NON-BIODEGRADABLE

MATERIALS FROM THE ROOTBALL.
CUT DOWN WIRE BASKET AND FOL

DOWN ALL BURLAP FROM 1/3 OF

PLANTING MIX AS SPECIFIED

MATERIALS FROM THE ROOTBALL. FOLD DOWN ALL BURLAP FROM TOP

SCARIFY SUBGRADE

- 3 3-4' DIA SPADE CUT EDGE W/ 3" SHREDDED BARK MULCH

**IRRIGATION NOTE:** THE MOST EFFICIENT MANNER NECESSARY TO FULLY IRRIGATE ALL PLANTING AREAS.

# PLANT SCHEDULE

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT
SHRUBS						
ВХ	7	<u>Buxus</u> x 'Green Mountain' Green Mountain Boxwood	30" HT	30" OC	B&B	maintain as hedge
JS	8	Juniperus chinensis 'Spartan' Spartan Juniper	5' HT	30" OC	B&B	
GROUN	DCOVERS/F	PERENNIALS				
HS	12	Hemerocallis 'Stella D'Oro' Stella D'Oro Daylily	2 GAL	18" OC	CONT	