

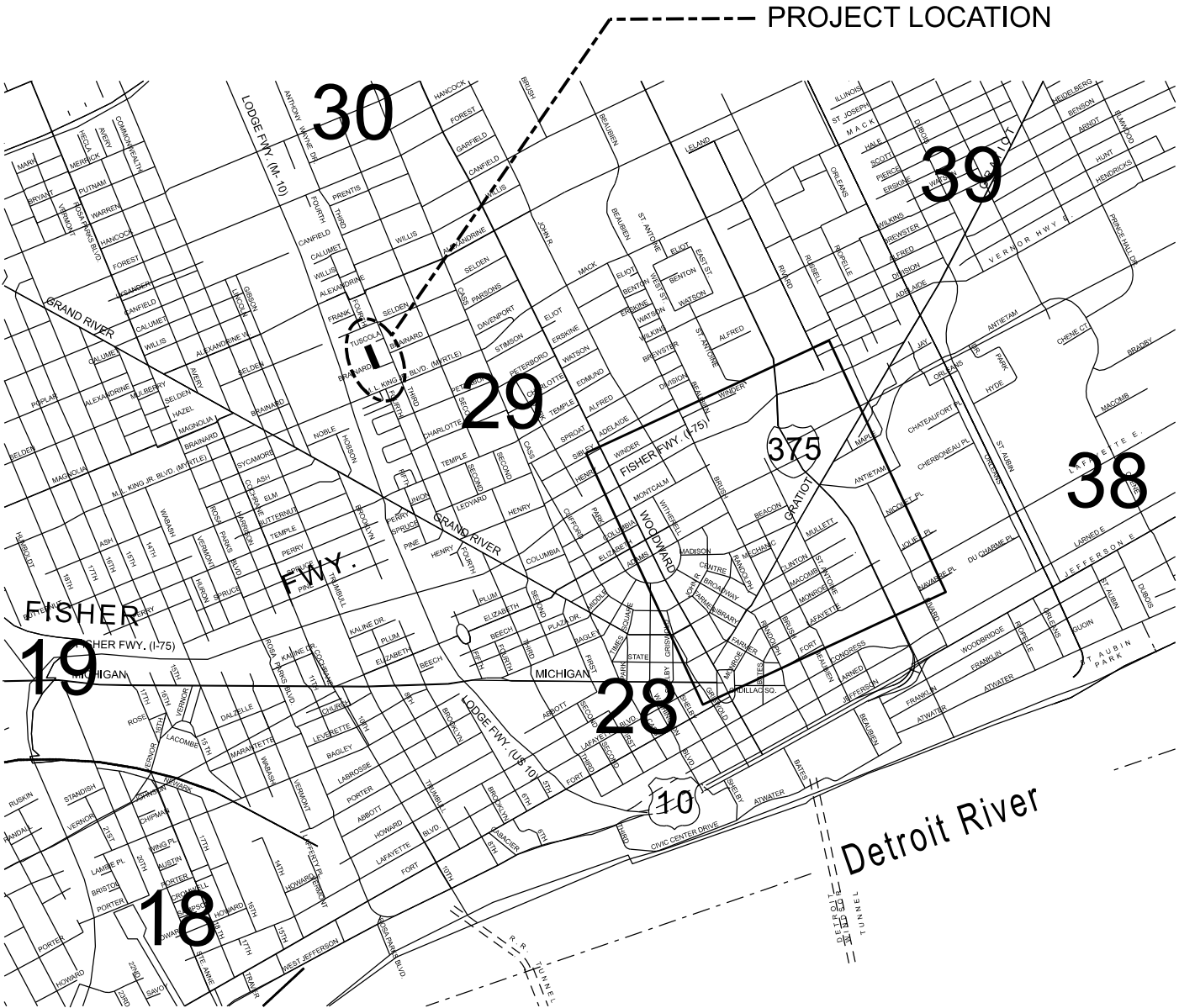
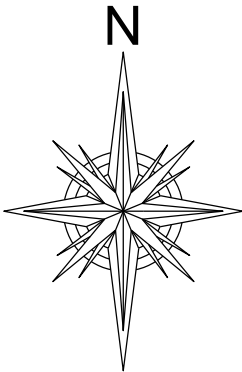
INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	REMOVAL PLAN
3	CONSTRUCTION PLAN AND SECTION
4	GRADING AND UTILITY PLAN
5	PROFILES
6	CONSTRUCTION DETAILS
7	CONSTRUCTION DETAILS
8	CONSTRUCTION DETAILS

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE. THIS IS NOT ALEGAL SURVEY.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND ORDINANCES OF THE CITY OF DETROIT, WAYNE COUNTY, AND THE STATE OF MICHIGAN, WHERE APPLICABLE.
3. THE CONTRACTOR SHALL ADHERE TO ALL SITE, LOCAL, COUNTY, AND STATE ORDINANCES GOVERNING HOURS OF OPERATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING HIS OWN HEALTH AND SAFETY PLAN.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE WORK. PERMITS TO BE OBTAINED INCLUDE, BUT ARE NOT LIMITED TO, WAYNE COUNTY, AS APPLICABLE, PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND CONTACT MISS DIG A MINIMUM OF 3 WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT THE OWNER TO HAVE UTILITIES OUTSIDE OF THE PUBLIC RIGHT- OF- WAY IDENTIFIED AND LOCATED. THE CONTRACTOR SHALL NOT BEGIN UNDERGROUND WORK UNTIL THE SITE HAS BEEN MARKED BY REPRESENTATIVES OF ALL AFFECTED UTILITIES.
7. THE CONTRACTOR SHALL PROTECT, OR HAVE RELOCATED, ANY UTILITIES THAT INTERFERE WITH THE CONSTRUCTION. UTILITIES AND ASSOCIATED STRUCTURES SHALL NOT BE REMOVED UNLESS SPECIFIED ON PLANS.
8. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL AND SIGNAGE, PER LOCAL UNIFORM TRAFFIC CONTROL REGULATIONS, TO MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES THROUGHOUT CONSTRUCTION. PROVIDE APPROPRIATE BARRICADES AROUND WORK AREAS FOR PEDESTRIAN AND VEHICULAR SAFETY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY CONSTRUCTION STAKING AND GRADE ALIGNMENT CONTROLS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT GRADE AND ALIGNMENT REFERENCES BY MEANS OF STAKES, STRINGLINES, OR OTHER APPROPRIATE MEANS.
10. THE CONTRACTOR SHALL USE APPROPRIATE MEANS, METHODS, AND EQUIPMENT AND TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SITE FEATURES, SUCH AS, BUT NOT LIMITED TO, ROAD SIGNS, DRIVES, PAVEMENT, DITCHES, MANHOLES, UNDERGROUND UTILITIES, OVERHEAD UTILITIES, CULVERTS, GATES, FENCES, UTILITY POLES, OR UTILITY MARKERS, PUBLIC OR PRIVATE. ANY SITE FEATURE DAMAGE OR DISTURBANCE THAT OCCURS AS A RESULT OF THE CONTRACTOR'S MEANS, METHODS, OR EQUIPMENT SHALL BE REPAIRED AND/OR RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER OR THE OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF ANY SUCH REPAIRS OR REPLACEMENTS.
11. CONTRACTOR SHALL PROVIDE SUBMITTALS ON MATERIALS AND EQUIPMENT TO BE INCLUDED IN THE CONSTRUCTION PRIOR TO THE PRE-CONSTRUCTION MEETING. THE ENGINEER SHALL REVIEW SUBMITTALS TO VERIFY THAT THE MATERIALS ARE IN ACCORDANCE WITH THE SPECIFICATIONS. SUBMITTALS INCLUDE SUCH ITEMS AS PERMITS, SHOP DRAWINGS, CALCULATIONS, CUT SHEETS, AND QUALITY CONTROL CERTIFICATES.
12. ALL CONSTRUCTION SHALL BE COMPLETED TO THE ELEVATIONS AS NOTED ON THE PLANS. TOLERANCES OF ±0.1 FT ARE ACCEPTABLE IN LANDSCAPED/GRAVEL AREAS. TOLERANCES OF ±0.01 FT ARE ACCEPTABLE FOR PAVEMENT AND SEWER CONSTRUCTION.

CITY OF DETROIT
4TH STREET EXTENSION - PHASE 2
FROM TUSCOLA ST. TO BRAINARD ST.
PW-7045

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, THE PROPOSAL, AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2020 EDITION.



CONTRACT FOR RECONSTRUCTION OF 4TH ST.
FROM TUSCOLA ST. TO BRAINARD ST.



LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS

APPROVED BY **RICHARD DOHERTY**
CITY ENGINEER

DATE

APPROVED BY **STEVEN BANNASCH**
ENGINEER SERVICES
COORDINATOR

DATE

PREPARED UNDER THE SUPERVISION OF

Pamela Lemme
LICENSED PROFESSIONAL ENGINEER

DATE

CITY OF DETROIT
ORGANIZATION

CITY ENGINEERING DIVISION, D.P.W.
2 WOODWARD AVE. SUITE 601 DETROIT MI 48216
ADDRESS

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 06 / 21 / 21)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DESIGNED BY: **PAMELA LEMME**
DRAWN BY: **SARMAD AL TAMEEMI**
CHECKED BY: **STEVEN BANNASCH**

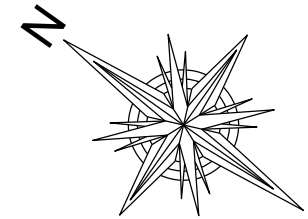
APPROVED BY:
DATE: 05 / 06 / 2022

CS:
JN: **PW-7045**

4TH STREET EXTENSION - PHASE 2
FROM TUSCOLA ST. TO BRAINARD ST.
TITLE SHEET

DRAWING	SHEET
1	1 OF 8

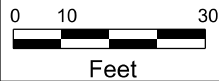
FILE NAME: WEST 4TH STREET EXTENSION - PHASE 2 DRAWN BY: SA DATE: APRIL 26, 2022



LEGEND

- | | | | |
|--|--|---|---------------------------|
|  | EXISTING ELECTRIC & LIGHT POLE |  | EXISTING ELECTRIC LINE |
|  | EXISTING LIGHT HANDHOLE |  | EXISTING SANITARY SEWER |
|  | EXISTING ELECTRICAL MANHOLE |  | EXISTING WATER MAIN |
|  | EXISTING STORM SEWER CATCH BASIN |  | EXISTING NATURAL GAS LINE |
|  | EXISTING WATER GATE WELL MANHOLE |  | EXISTING FENCE |
|  | EXISTING FIRE HYDRANT |  | WORKING AND CLEARING AREA |
|  | EXISTING GAS LINE, PETROLEUM OR FIBER OPTIC MARKER | | |

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 06 / 21 / 21)						
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH



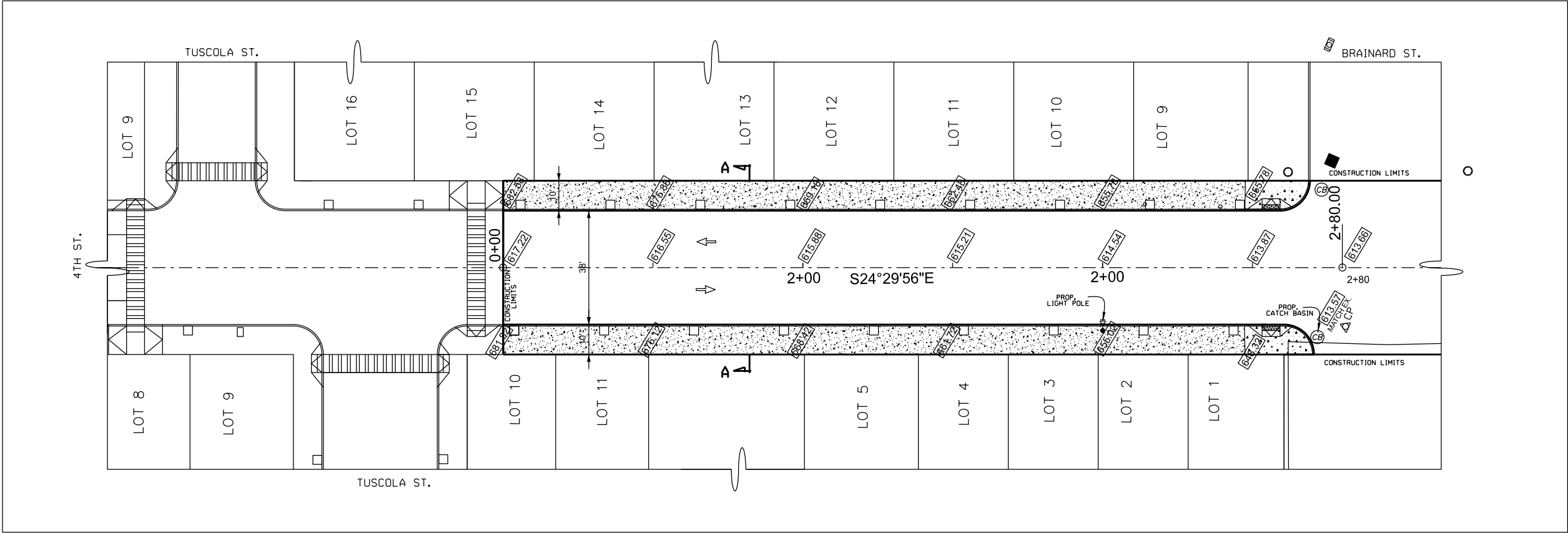
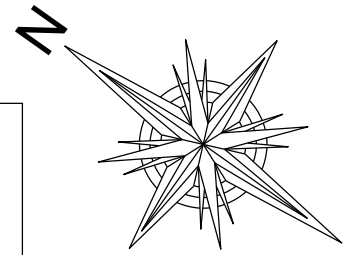
DESIGNED BY :	PAMELA LEMME
DRAWN BY :	SARMAD AL TAMEEMI
CHECKED BY :	STEVEN BANNASCH

APPROVED BY :	
DATE:	05 / 06 / 2022

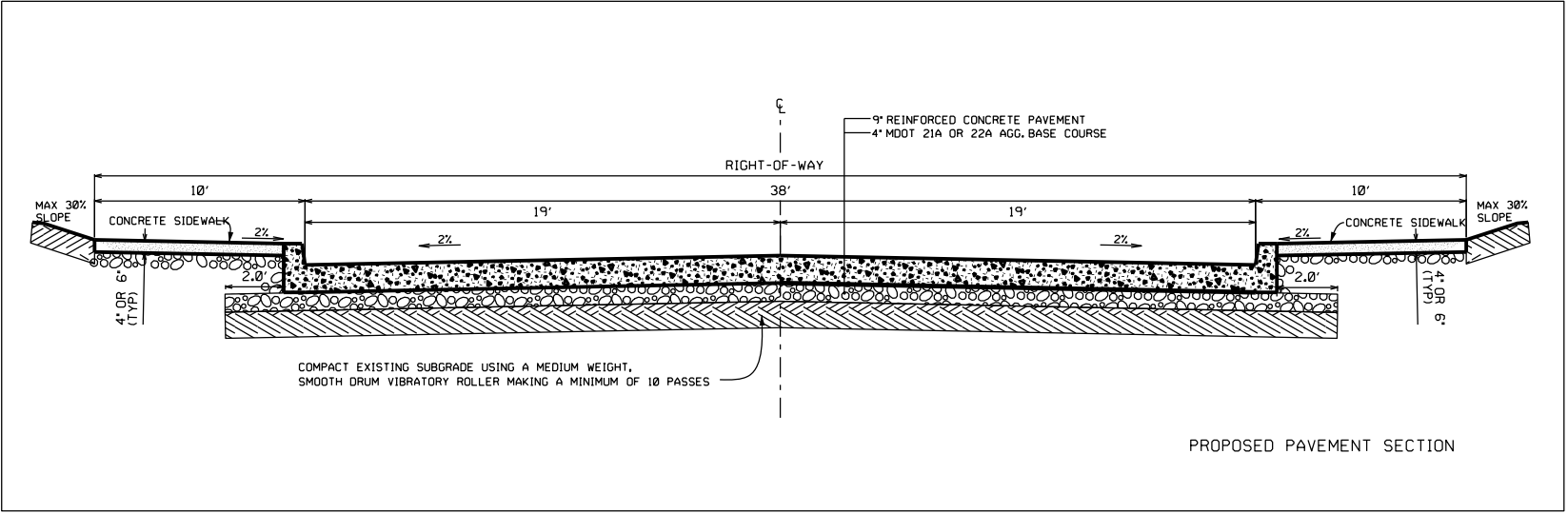
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JN:	PW-7045

4TH STREET EXTENSION - PHASE 2
FROM TUSCOLA ST. TO BRAINARD ST.
REMOVAL PLAN

DRAWING	SHEET
1	2 OF 8



CONSTRUCTION PLAN
SCALE / 1"=40'



SECTION A-A
NO SCALE

LEGEND

-  PROPOSED 4' CONCRETE SIDEWALK
-  PROPOSED 6' CONCRETE SIDEWALK
-  PROPOSED CONCRETE PAVEMENT WITH INTEGRAL CURB REINFORCED 9 INCH
-  PROPOSED TREE PIT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 06 / 21 / 21)								DRAWING		SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	1	3	OF	8



DEPARTMENT OF PUBLIC WORKS
DPW
CITY ENGINEERING DIVISION
CITY OF DETROIT
2 WOODWARD AVENUE
DETROIT, MI 48226

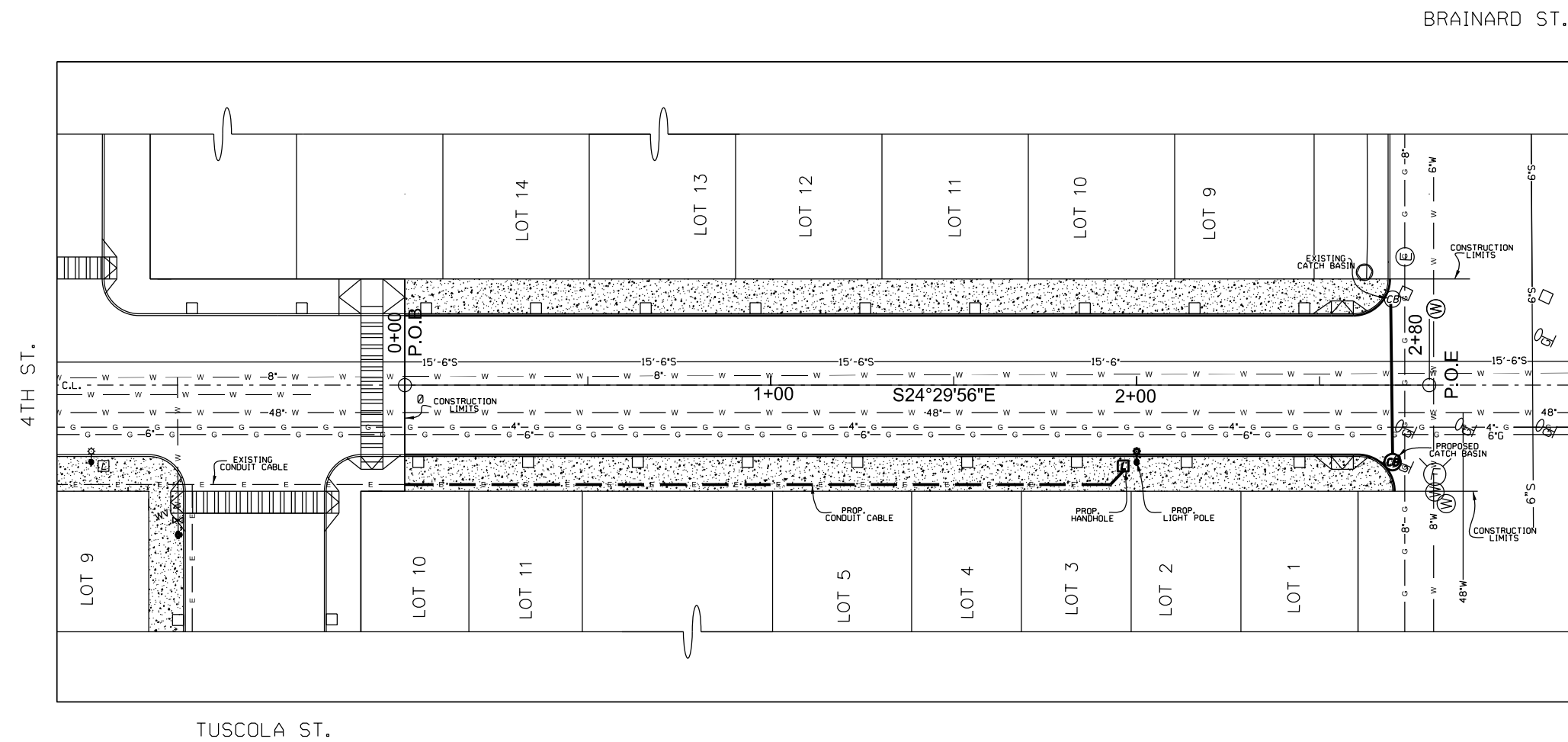
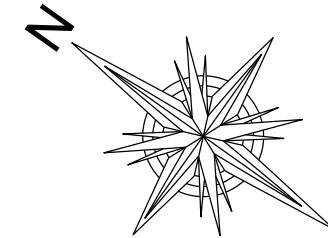
0 10 30
Feet

DESIGNED BY : PAMELA LEMME
DRAWN BY : SARMAD AL TAMEEMI
CHECKED BY : STEVEN BANNASCH

APPROVED BY :
DATE: 05 / 06 / 2022

CS:
JN: PW-7045

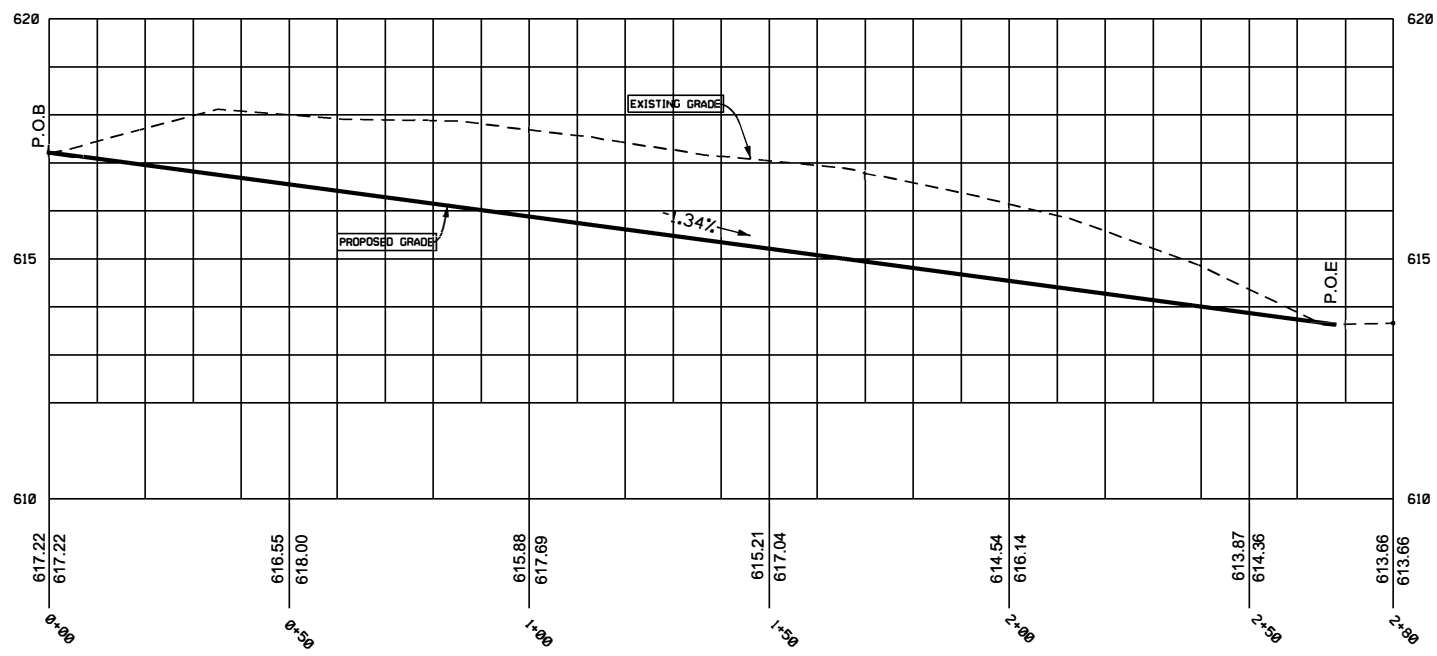
4TH STREET EXTENSION - PHASE 2
FROM TUSCOLA ST. TO BRAINARD ST.
CONSTRUCTION PLAN AND SECTION



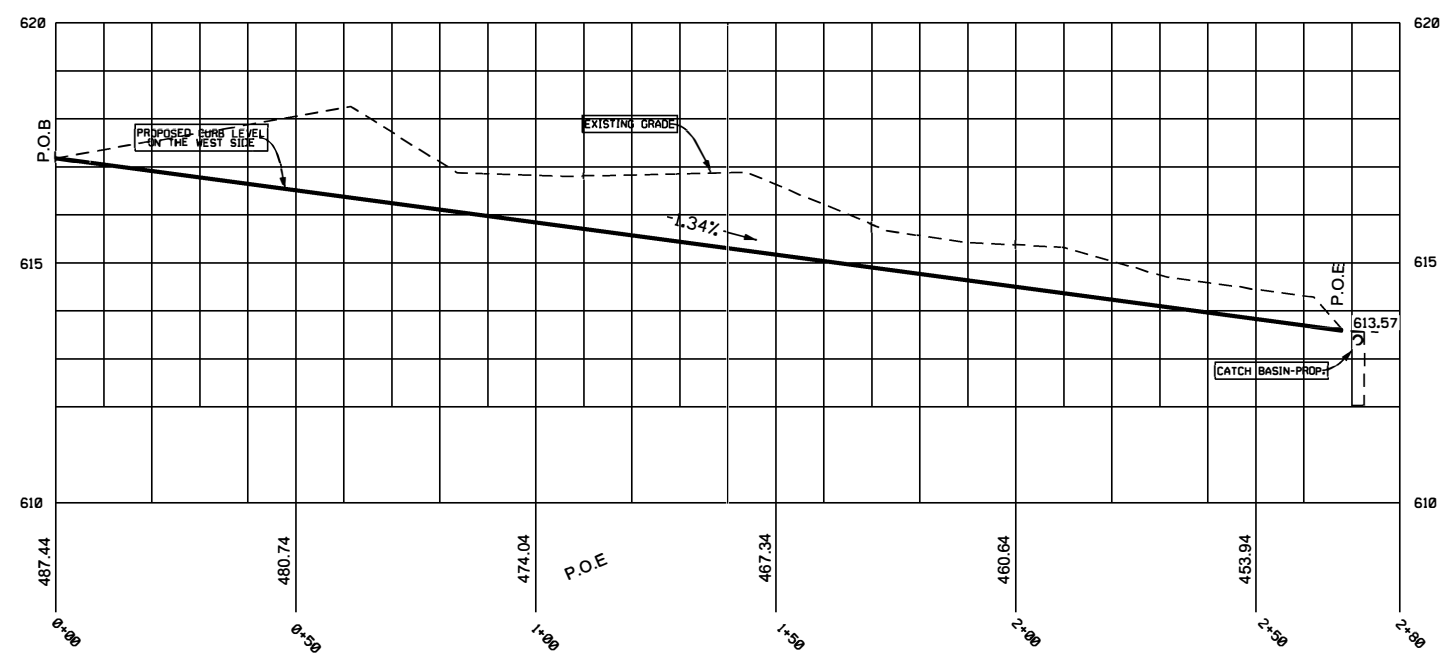
LEGEND

- | | | | |
|--|--|--|--|
| | EXISTING ELECTRIC & LIGHT POLE | | PROPOSED ELECTRIC & LIGHT POLE |
| | EXISTING LIGHT HANDHOLE | | PROPOSED LIGHT HANDHOLE |
| | EXISTING ELECTRICAL MANHOLE | | PROPOSED ELECTRICAL MANHOLE |
| | EXISTING STORM SEWER CATCH BASIN | | PROPOSED STORM SEWER CATCH BASIN |
| | EXISTING WATER GATE WELL MANHOLE | | PROPOSED WATER GATE WELL MANHOLE |
| | EXISTING FIRE HYDRANT | | PROPOSED FIRE HYDRANT |
| | EXISTING GAS LINE, PETROLEUM OR FIBER OPTIC MARKER | | PROPOSED GAS LINE, PETROLEUM OR FIBER OPTIC MARKER |
| | EXISTING ELECTRIC LINE | | PROPOSED ELECTRIC LINE |
| | EXISTING SANITARY SEWER | | PROPOSED SANITARY SEWER |
| | EXISTING WATER MAIN | | PROPOSED WATER MAIN |
| | EXISTING NATURAL GAS LINE | | PROPOSED NATURAL GAS LINE |

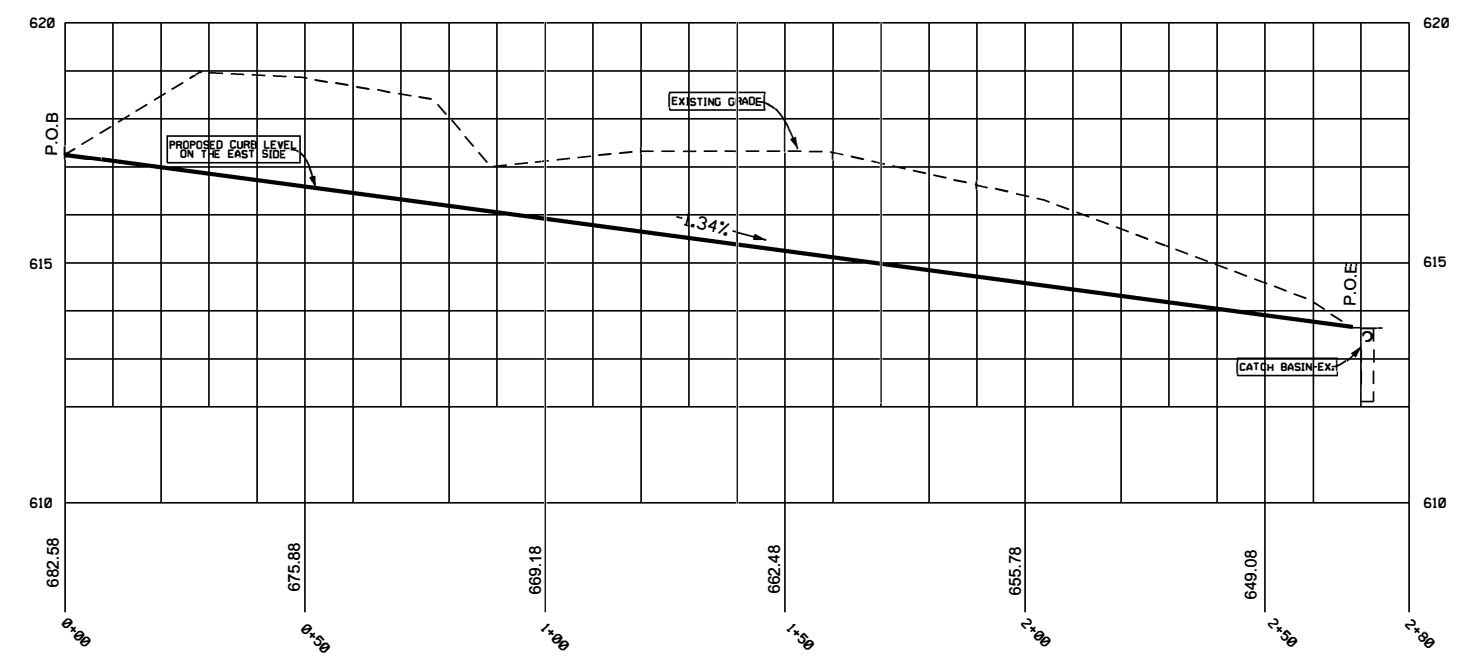
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 06 / 21 / 21)								 DEPARTMENT OF PUBLIC WORKS DPW CITY ENGINEERING DIVISION CITY OF DETROIT 2 WOODWARD AVENUE DETROIT, MI 48226	01030 Feet		DESIGNED BY: PAMELA LEMME		APPROVED BY:		CS:		4TH STREET EXTENSION - PHASE 2 FROM TUSCOLA ST. TO BRAINARD ST. GRADING AND UTILITY PLAN	DRAWING	SHEET		
NO.	DATE	AUTH	DESCRIPTION				NO.				DATE	AUTH	DESCRIPTION					DATE: 05 / 06 / 2022		JN: PW-7045	



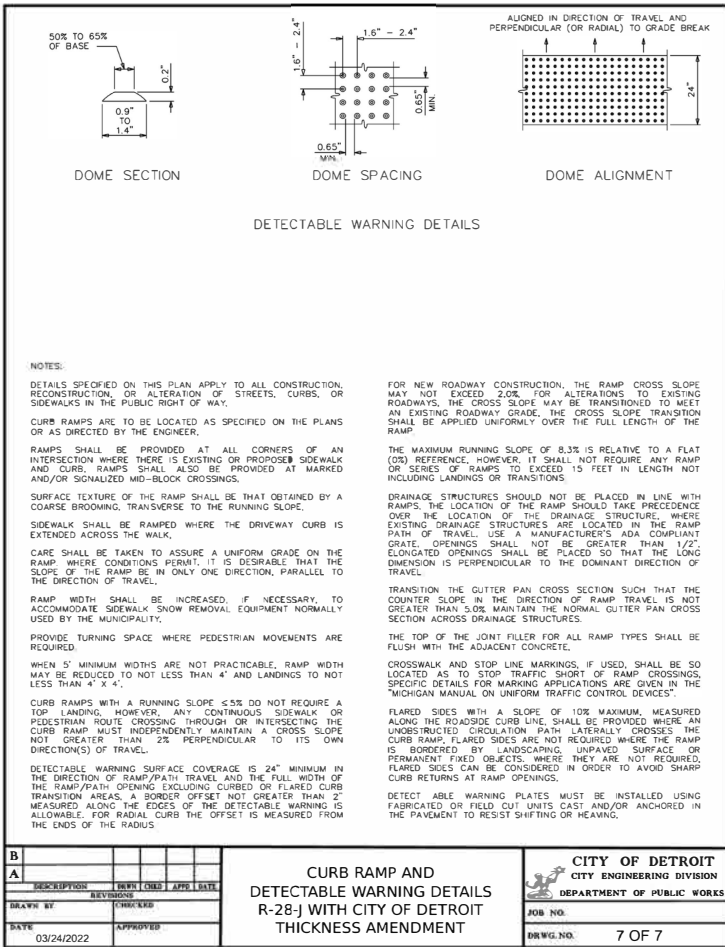
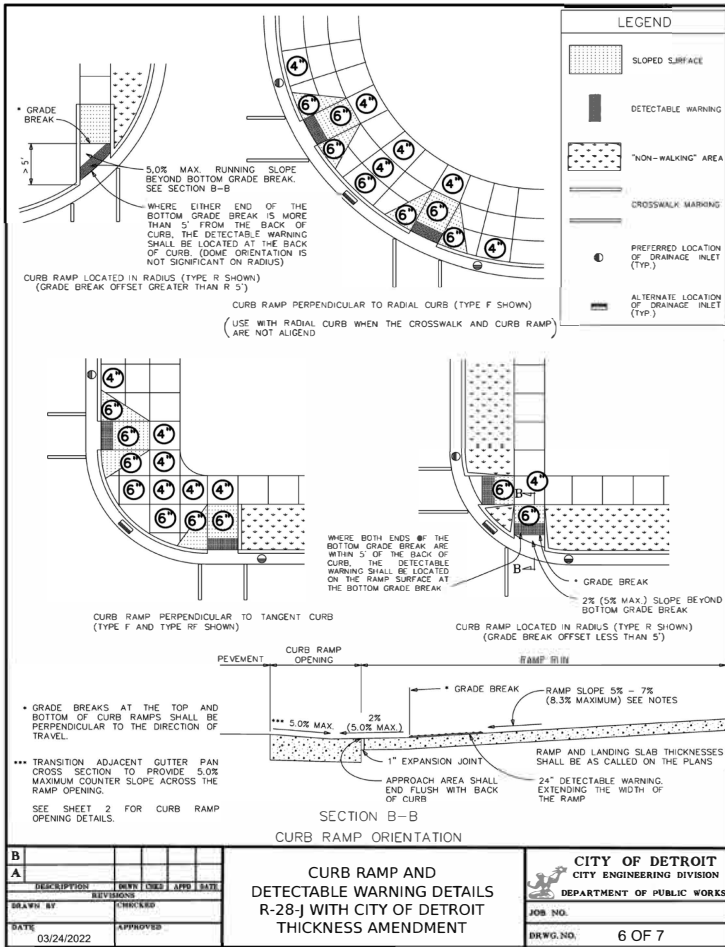
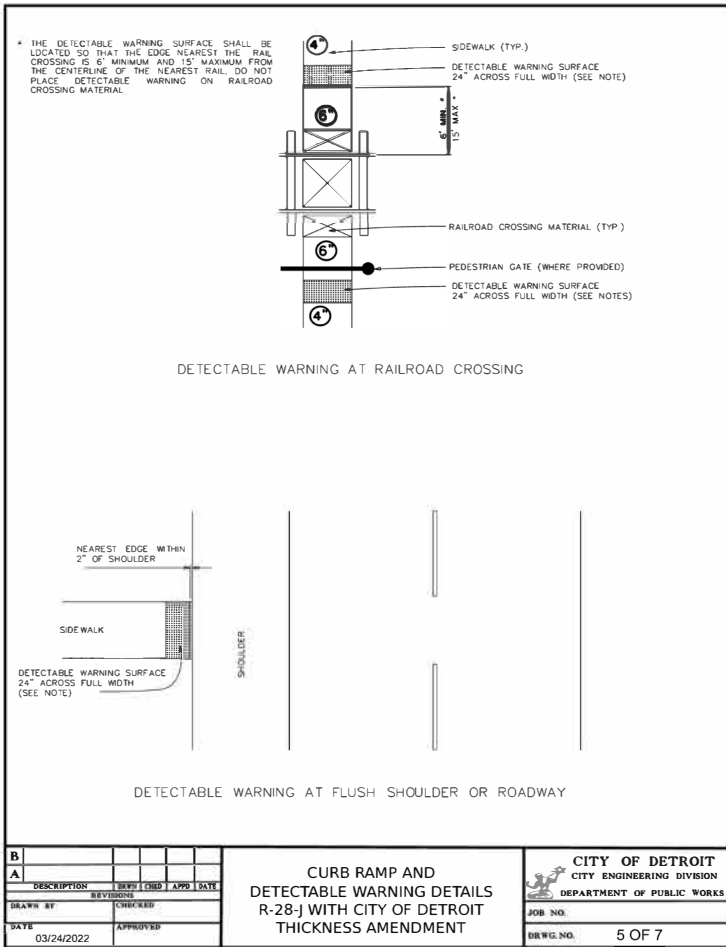
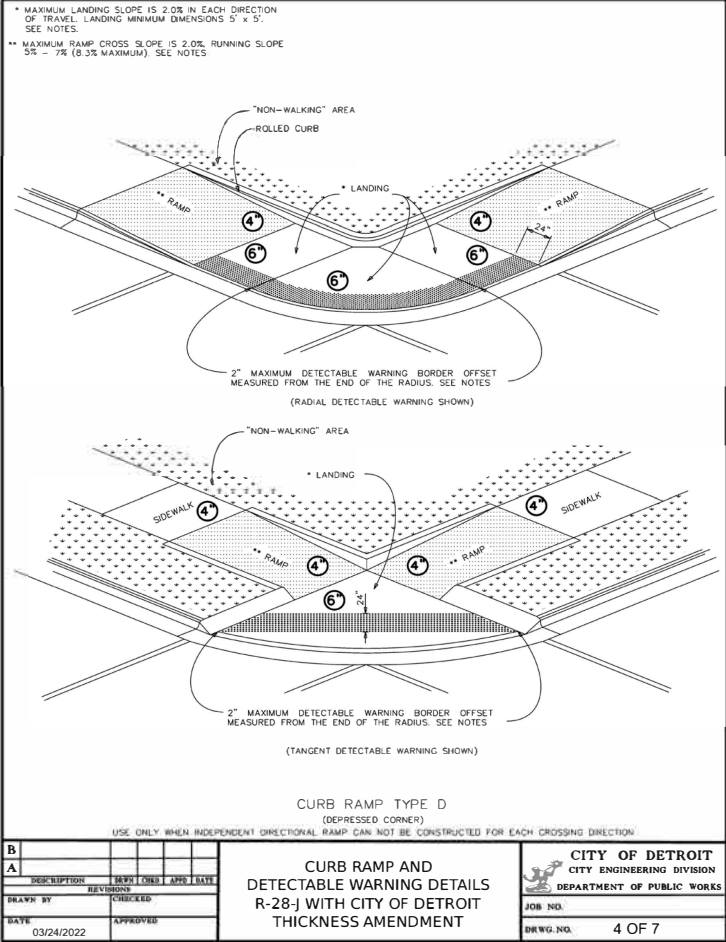
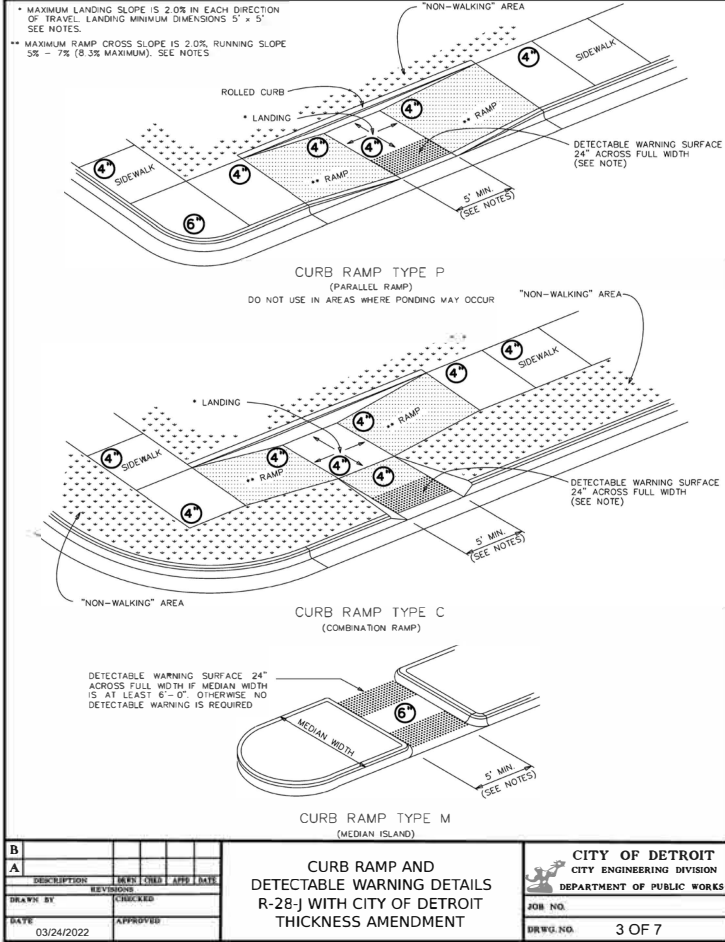
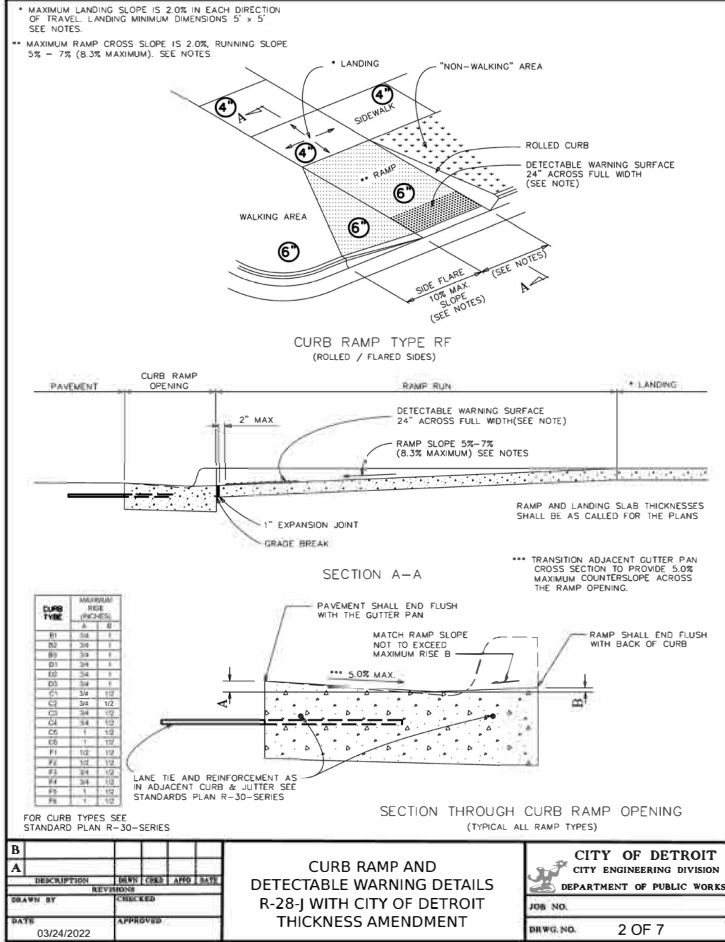
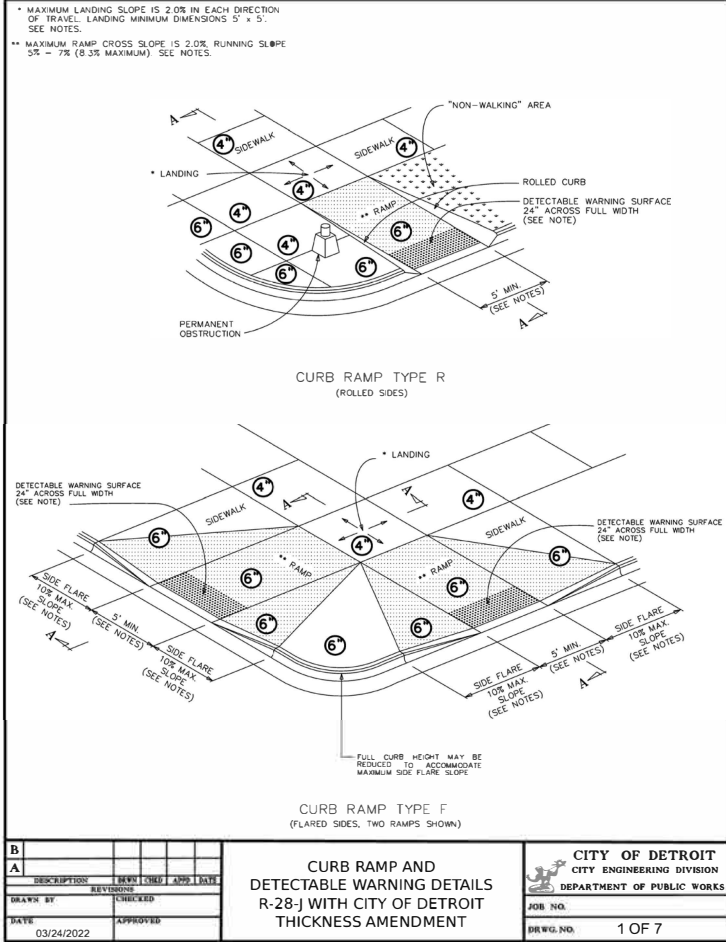
CENTER LINE



WEST SIDE LINE

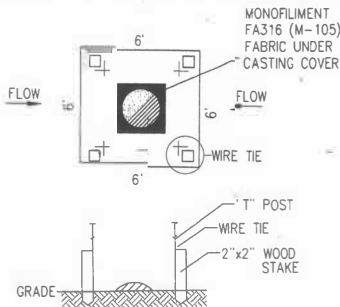


EAST SIDE LINE

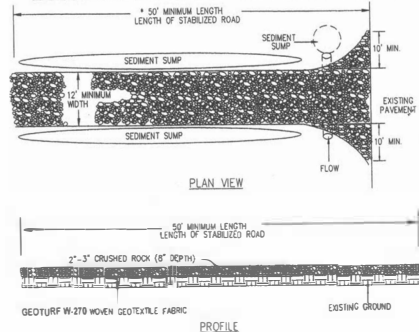


REAR YARD GUARD

3' MDOOT SILT FENCE WITH 2"x2" STAKES
TRENCHED 10" TO 12" INTO THE GROUND.
4 "T" FENCE POSTS DRIVEN INTO GROUND AND
TIE TO WOOD POST WITH WIRE TIE FOR SUPPORT.

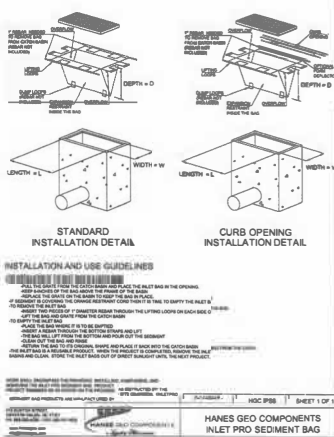


STABILIZED CONSTRUCTION ACCESS



STABILIZED CONSTRUCTION ACCESS DETAIL

NOT TO SCALE



CSI Geoturf®

Down to Earth Solutions
Professional Construction, Turf, and Landscape Supplies
• CIVIL SITE IMPROVEMENTS • EROSION & SEDIMENT CONTROL • STORMWATER MANAGEMENT • LANDSCAPE ENHANCEMENTS

Geoturf® Filter Bag

Whenever accumulated water on a construction site must be pumped, utilize filter bags to ensure the water is properly filtered of silt and sediment prior to discharge into receiving bodies. Filter bags are constructed of strong, high quality nonwoven geotextile filter fabric with a fill port to accommodate a pump discharge hose. The filter bags permit a controlled outflow of water, while retaining harmful pollutants.

Size 15' x 20' x 8"
Spout Size 8"
Holding Capacity 15 Cubic Yds.

Meets the requirements of MDOT Item 208
Erosion Control Filter Bag

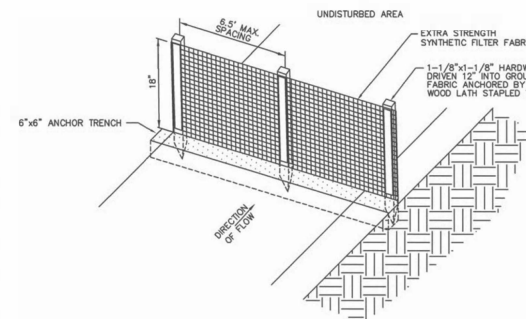


INLET FILTER DETAIL

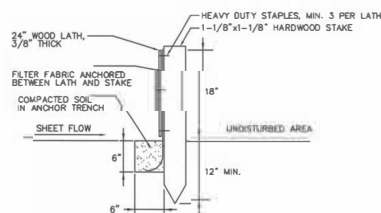
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CSIGeoturf®

Highland • Byron Center • Traverse City
(800) 621-7007 • (888) 208-5772 • (231) 943-4002
www.geoturf.com



SILT FENCE - PLAN VIEW



SILT FENCE - SECTIONAL VIEW

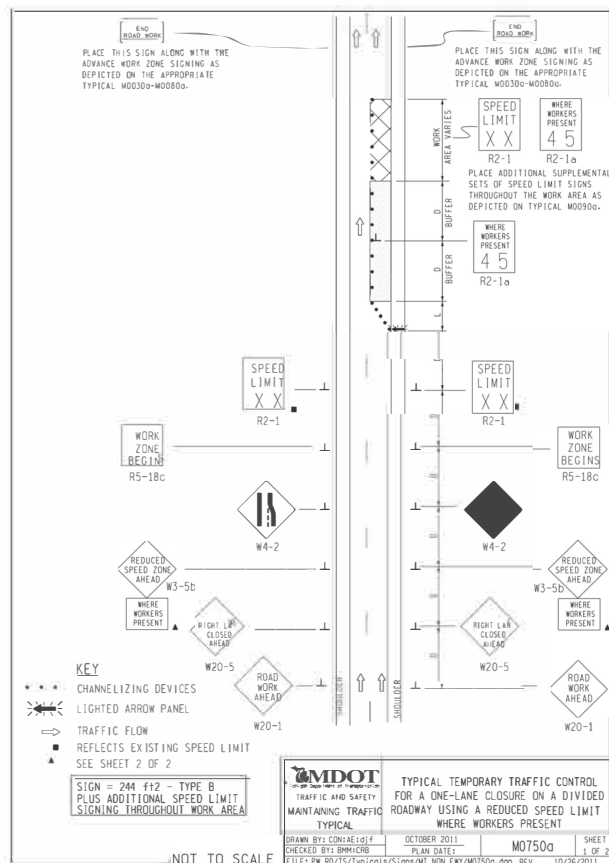
GEOTURF™
24" SILT FENCE
6.5 FT. POST SPACING

CS/GEOTURF, INC.
1000 ALLOY PARKWAY
HIGHLAND, MI 48302
SHEET 1 OF 1

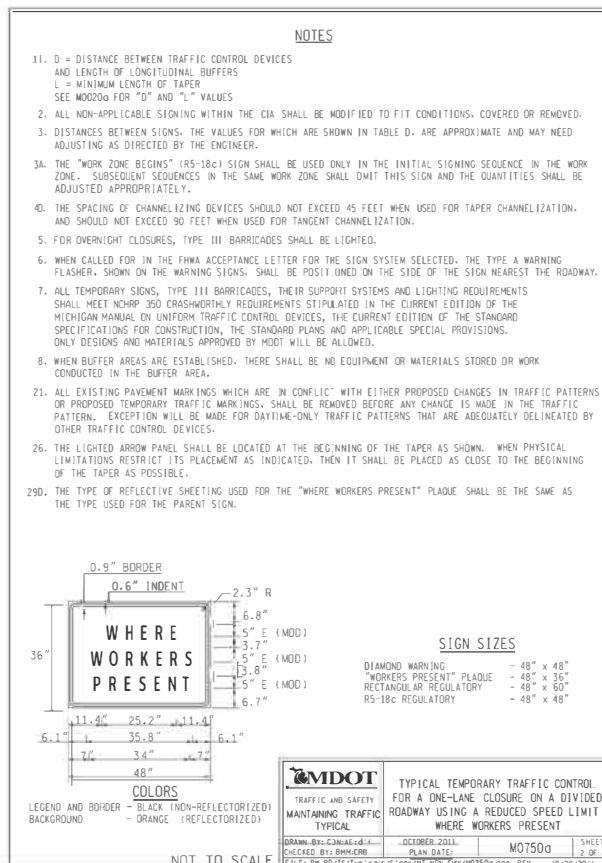
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SILT FENCE DETAIL

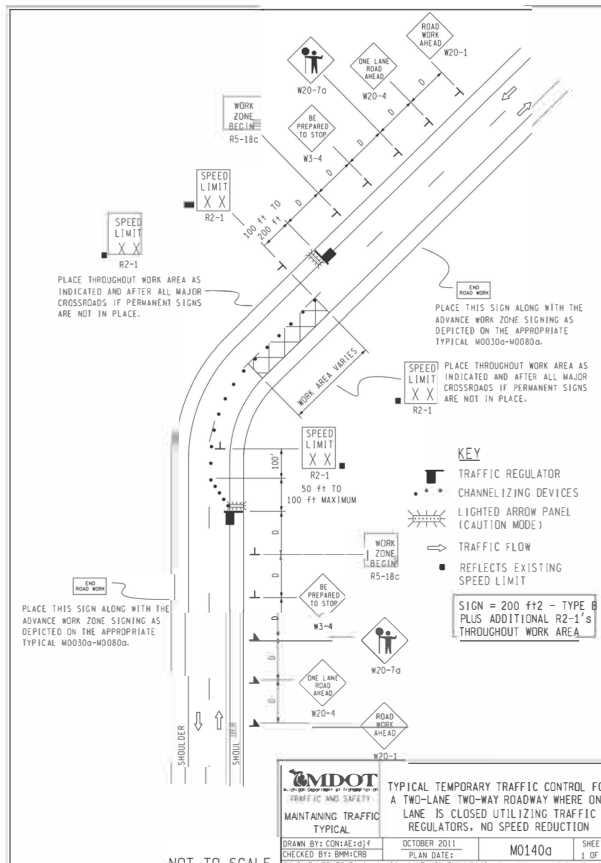
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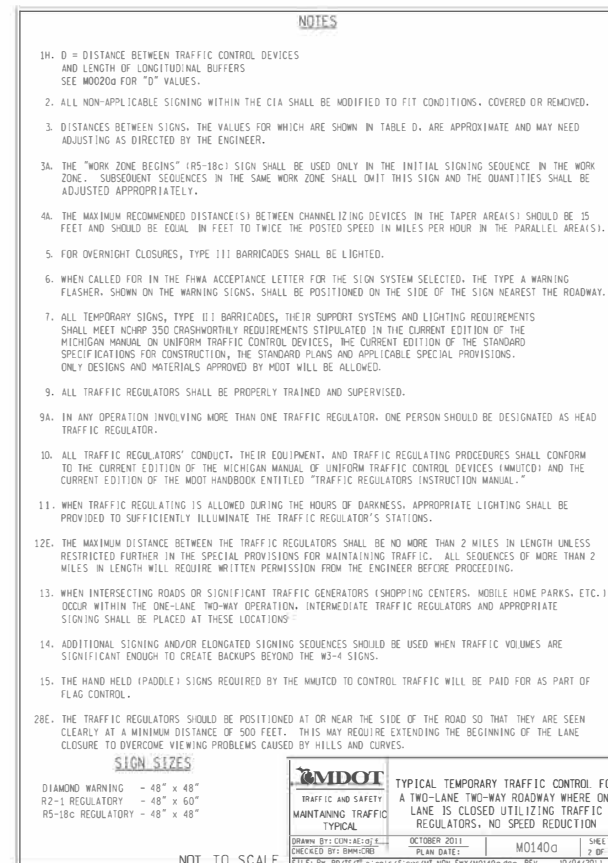
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NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

TRAFFIC CONTROL DETAILS

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)						 CITY OF DETROIT MICHIGAN	SCALE	DESIGNED BY : PAMELA LEMME	APPROVED BY :	TITLE : CONSTRUCTION DETAILS	PW -7045		DRAWING	SHEET	
REV.	DATE	DESCRIPTION	APP.	REV.	DATE			DESCRIPTION	APP.		DATE: 05 / 06 / 2022	WEST 4TH STREET EXTENSION - PHASE 2		1	7 OF 8
												FROM TUSCOLA ST. TO BRAINARD ST.			

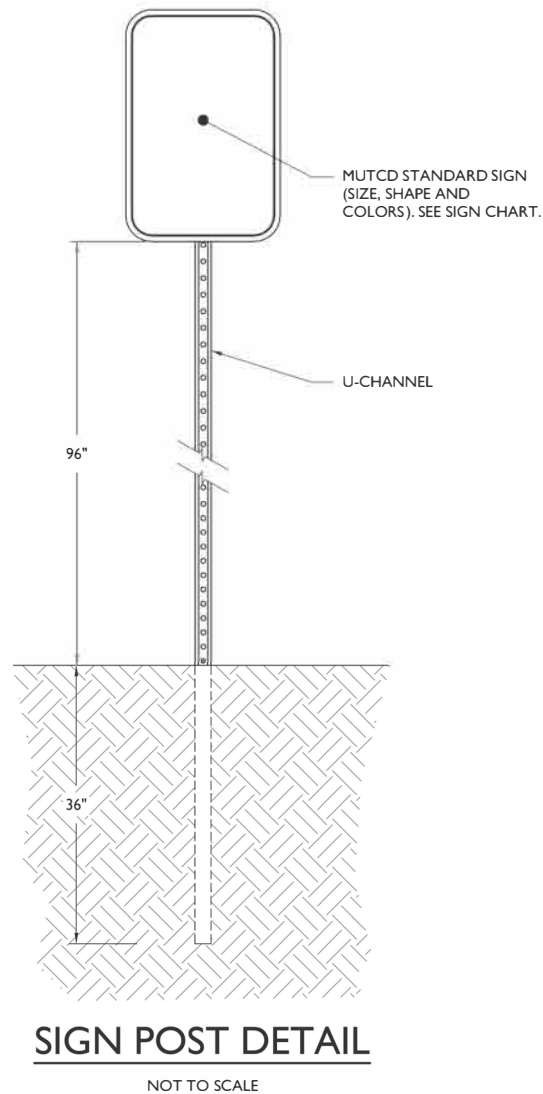
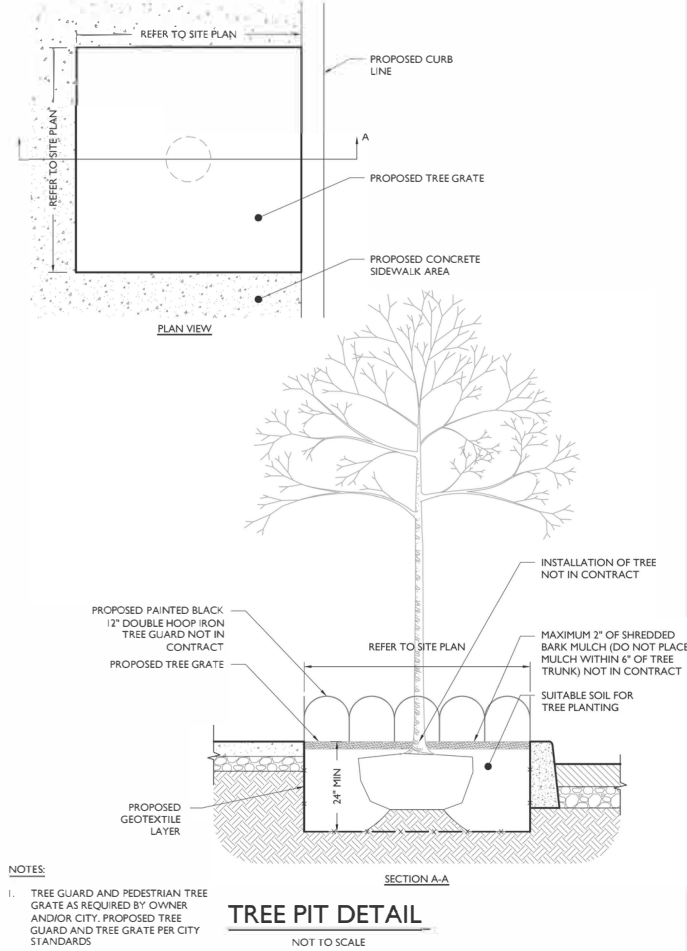
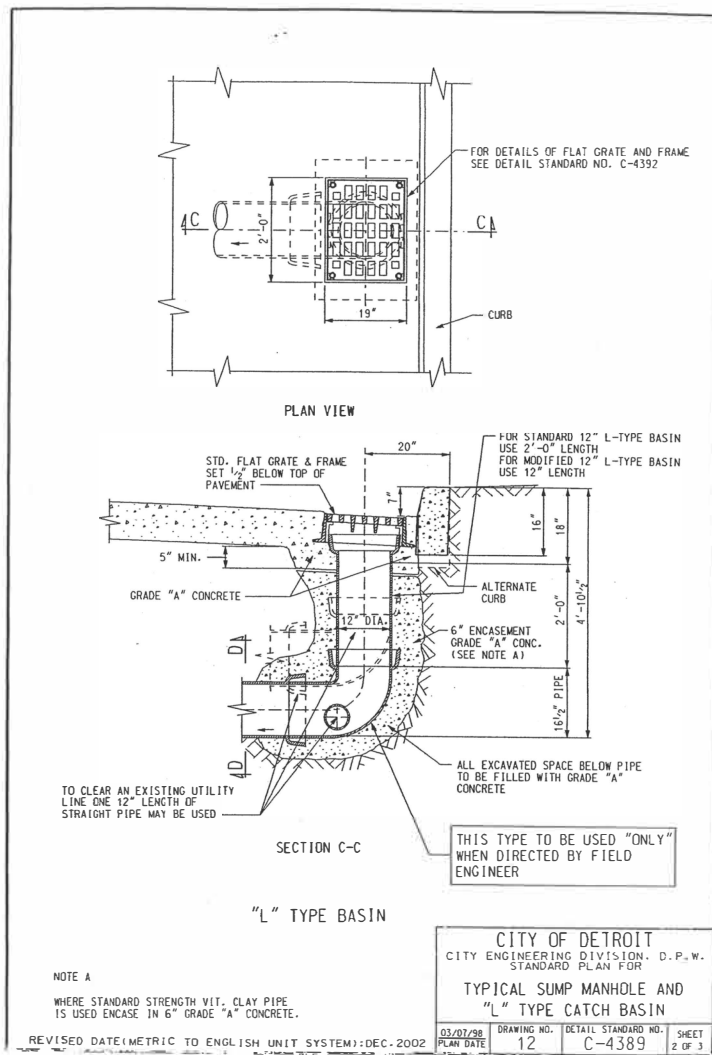


DRAWN BY : SARMAD AL TAMEEMI
CHECKED BY : STEVEN BANNASCH

DATE: 05 / 06 / 2022

PLAN DATE: 10/04/2011

10/04/2011



8853 SUNRAY Tree Grate Set

NOTE! COMPONENTS ARE SHIPPED LOOSE. (NOT ASSEMBLED)



Product Number
00885331C02
Design Features
-Materials
Tree Grate
Gray Iron (CL35B)

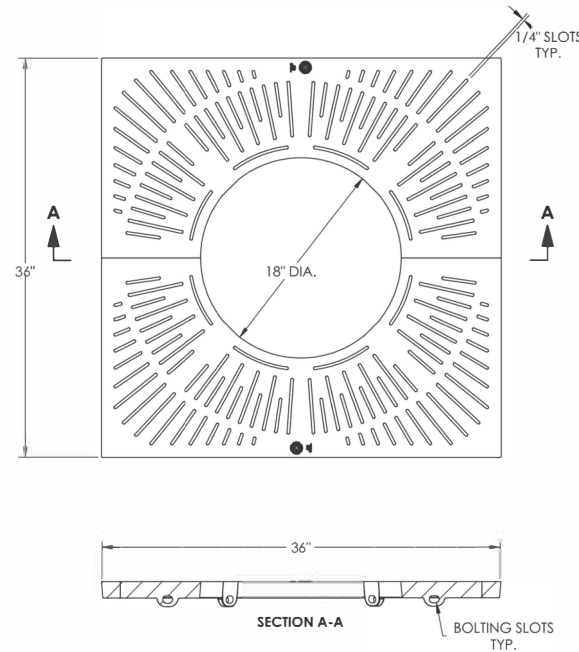
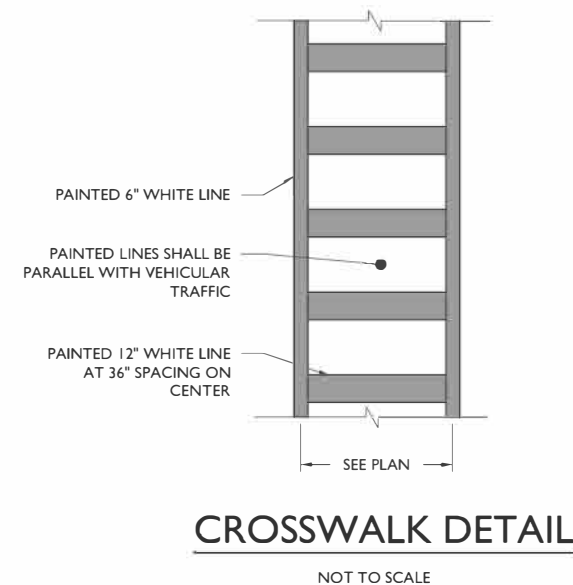
-Design Load
Non-Traffic
-Open Area
140 sq. inches
-Coating
Undipped
-√ Designates Machined Surface

Certification
-ASTM A48
-ADA
-Country of Origin: USA

Major Components
(2) 00885331

Drawing Revision
06/19/2014 Designer: CGY
Revised By:

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.
CONFIDENTIAL: This drawing is the property of EJ Group, Inc. and embodies confidential information, registered marks, patents, trade secret information, and/or know-how that is the property of EJ Group, Inc. Copyright © 2014 EJ Group, Inc. All rights reserved.
Contact
800 626 4653
ejco.com



M.U.T.C.D. NUMBER	TEXT	COLOR		SIZE OF SIGN (WIDTH X HEIGHT)	TYPE OF MOUNT
		LEGEND	BACKGROUND		
STOP SIGN (R1-1)		RED	WHITE	36"x36"	GROUND
NO PARKING (R7-202)		RED	WHITE	24"x30"	GROUND
DO NOT ENTER (R5-1)		YIELD: RED PEDESTRIAN: BLACK	WHITE	18"x24"	GROUND

NOTE:
1. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EXCEPT AS NOTED.
2. ALL SIGNS SHALL BE MOUNTED AS TO NOT OBSTRUCT THE SHAPE OF "STOP" (R1-1) AND "YIELD" (R1-2) SIGNS.

SIGN DATA TABLE

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							 CITY OF DETROIT MICHIGAN	SCALE	DESIGNED BY : PAMELA LEMME	APPROVED BY :	TITLE :	PW -7045		DRAWING	SHEET	
REV.	DATE	DESCRIPTION	APP.	REV.	DATE	DESCRIPTION						APP.	WEST 4TH STREET EXTENSION - PHASE			
													2FROM TUSCOLA ST. TO BRAINARD ST.			
								NO SCALE	DRAWN BY : SARMAD AL TAMEEMI	DATE: 05 / 06 / 2022	CONSTRUCTION DETAILS		1	8 OF 8		
									CHECKED BY : STEVEN BANNASCH							