

**LOCAL AUTHORITY APPROVAL**

CITY OF DETROIT  
 CITY ENGINEERING DIVISION  
 DEPARTMENT OF PUBLIC WORKS  
 COLEMAN A. YOUNG MUNICIPAL CENTER  
 2 WOODWARD AVENUE  
 DETROIT, MICHIGAN 48226

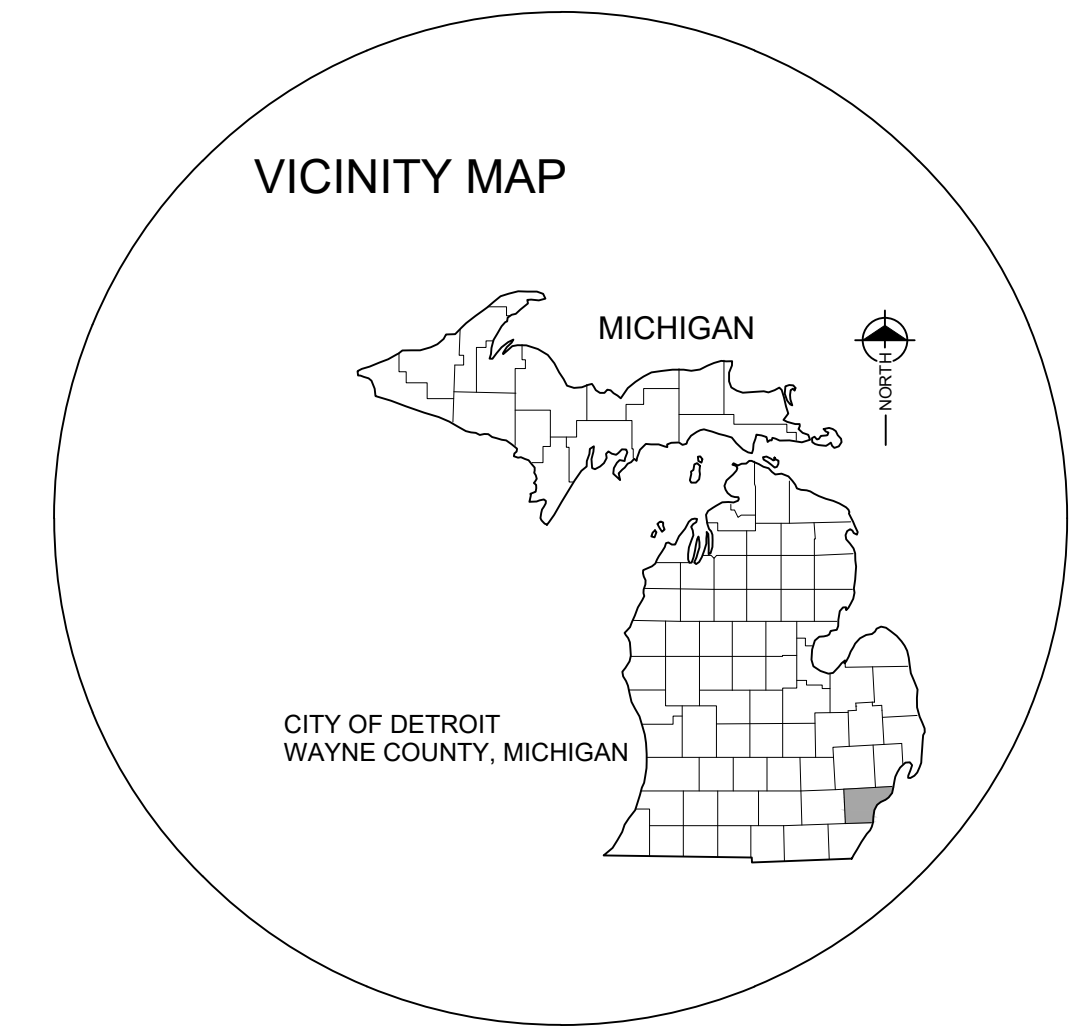
Speed Data  
 Posted 30 mph  
 Design 30 mph

**CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS**

**DEXTER AVENUE  
 STREETScape**

CITY OF DETROIT  
 WAYNE COUNTY, MICHIGAN  
 PROJECT NUMBER: PW-7010

ISSUED FOR 100% REVIEW  
 07/21/2023



LOCATION MAP  
 NORTH

THESE PLANS WERE PREPARED FOR  
 CITY OF DETROIT, DEPARTMENT OF PUBLIC WORKS BY:  
 FISHBECK

*Katerina Kollar*  
 KATERINA KOLLAR, P.E.  
 FISHBECK  
 10001 WOODWARD AVENUE, SUITE 860  
 DETROIT, MI 48226  
 (313) 293-3550

7/21/2023  
 DATE

**APPROVALS**

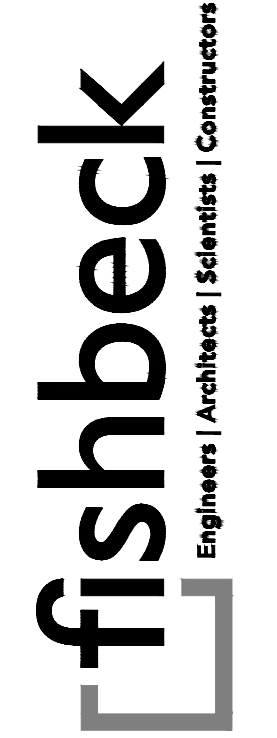
RECOMMENDED FOR APPROVAL BY:

\_\_\_\_\_  
 RICHARD DOHERTY, P.E. - CITY ENGINEER      DATE

**CITY OF DETROIT**

MILES: 1.0  
 CONTRACT FOR:  
 THE DEXTER AVENUE STREETScape PROJECT BEGINS AT THE INTERSECTION OF DEXTER AVENUE AND LAWRENCE ST AND CONTINUES NORTHWEST ALONG DEXTER AVENUE UNTIL IT INTERSECTS WITH W GRAND ST. THE PROJECT PROVIDES BIKE LANES AND STREETScape IMPROVEMENTS AND WILL INCLUDE THE FOLLOWING ELEMENTS: COLD MILLING AND HMA OVERLAY, 12 FT WIDE PROTECTED BIKE CYCLE TRACK, BUS ISLANDS, DRAINAGE STRUCTURE REHABILITATION, HARDScape, SIGNAGE, SIGNAL UPGRADES, PAVEMENT MARKINGS, SITE FURNISHINGS, ADA ACCESSIBILITY, IMPROVED LIGHTING AND LANDSCAPING.

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_TITLE\_001.DWG LAYOUT: TITLE001 DATE: 7/17/2023 TIME: 8:00:17 PM USER: AOPRANCON



**SMITHGROUP**  
 500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.983.3600  
 www.smithgroup.com



**City of Detroit**  
 Dexter Avenue Streetscape

REVISIONS	
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DPE  
 Manager: KKS

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**1**

**TITLE001**

© Copyright 2023  
 All Rights Reserved

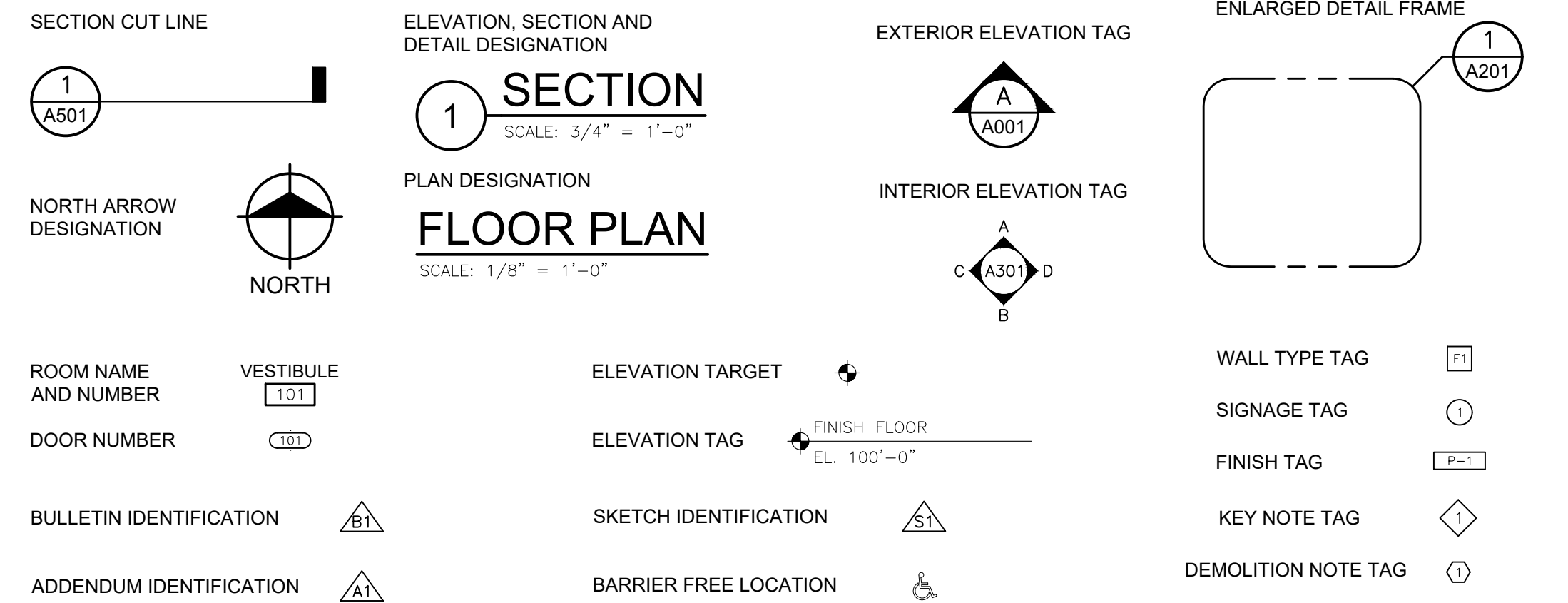


GENERAL ABBREVIATIONS

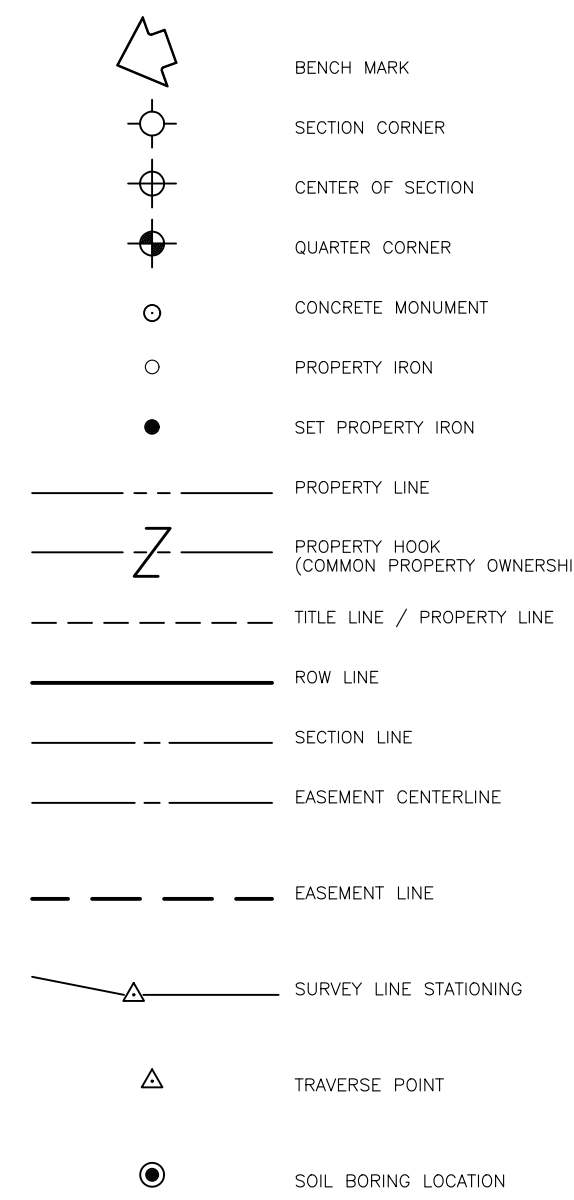
Table listing general abbreviations such as AFF (ABOVE FINISH FLOOR), ALU (ALUMINUM), ALT (ALTERNATE), BF (BARRIER FREE), BRG (BEARING), BVCS (VERTICAL TANGENT-CURVE INTERSECT STATION), CJ (CONTROL JOINT), CL (CENTERLINE), CLG (CEILING), CMU (CONCRETE MASONRY UNIT), CO (CLEANOUT), CONC (CONCRETE), CONST (CONSTRUCTION), CONT (CONTINUOUS), DIA (DIAMETER), DN (DOWN), DS (DOWNSPOUT), EF (EXHAUST FAN), EL (ELEVATION), EJ (EXPANSION JOINT), EQ (EQUAL), EVCS (VERTICAL CURVE-TANGENT INTERSECT STATION), EWC (ELECTRIC WATER COOLER), EX (EXISTING), FD (FLOOR DRAIN), FFE (FINISHED FLOOR ELEVATION), FRT (FIRE RETARDANT TREATED), FT (FOOT/FEET), GA (GAUGE/GAGE), GALV (GALVANIZED), GC (GENERAL CONTRACTOR), GR (GROUND), HB (HOSE BIBB), HP (HIGH POINT), HORIZ (HORIZONTAL), HVAC (HEATING VENTILATING AIR CONDITIONING), ID (INSIDE DIAMETER), IE (INVERT ELEVATION), IN (INCH/INCHES), INSUL (INSULATION), LAV (LAVATORY), LED (LIGHT EMITTING DIODE), LLH (LONG LEG HORIZONTAL), LLV (LONG LEG VERTICAL), LP (LOW POINT), MFR (MANUFACTURER), MAX (MAXIMUM), MEZZ (MEZZANINE), MIN (MINIMUM), MO (MASONRY OPENING), MTD (MOUNTED), N/A (NOT APPLICABLE), NC (NOISE CRITERIA), NIC (NOT IN CONTRACT), NO (NUMBER), NRC (NOISE REDUCTION COEFFICIENT), NTS (NOT TO SCALE), OC (ON CENTER), OD (OUTSIDE DIAMETER), OH (OVERHEAD), OPP (OPPOSITE), ORD (OVERFLOW ROOF DRAIN), PERP (PERPENDICULAR), PG (PLAN GRADE), PL (PLATE), POB (POINT OF BEGINNING), PR (PROPOSED), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PVC (POLYVINYL CHLORIDE), LP (LOW POINT), PVI (POINT OF VERTICAL INTERSECTION), R (RADIUS), REQD (REQUIRED), RD (ROOF DRAIN), RIM (STRUCTURE CASTING EL), RO (ROUGH OPENING), SCH (SCHEDULE), SF (SQUARE FOOT), SIM (SIMILAR), SP (SPACE/SPACING), SQ (SQUARE), SS (STAINLESS STEEL), STD (STANDARD), TAN (TANGENT), TC (TOP OF CURB), ORD (TOP OF PAVEMENT), TS (TOP OF SIDEWALK), TYP (TYPICAL), UL (UNDERWRITERS LABORATORY), UNO (UNLESS NOTED OTHERWISE), VERT (VERTICAL), VTR (VENT THROUGH ROOF), W (WITH), WC (WATER CLOSET), WH (WATER HEATER), W/O (WITHOUT), WP (WEATHERPROOF), WT (WEIGHT).

SYMBOL LEGEND

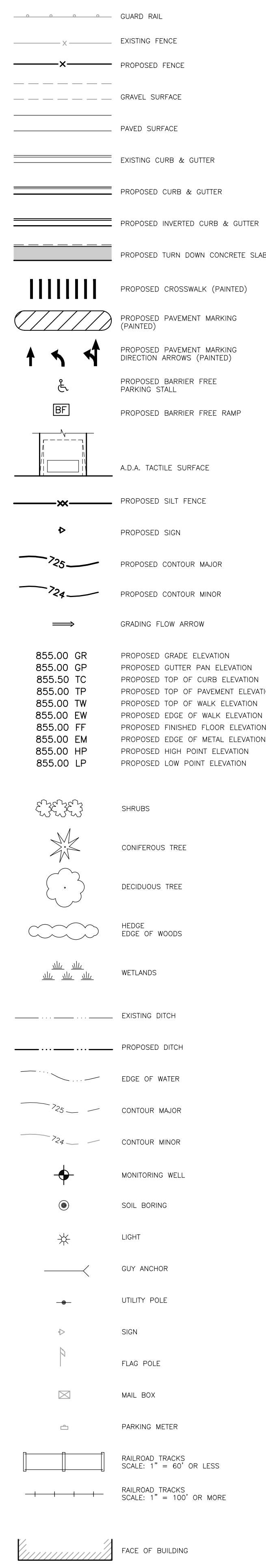
GRAPHIC SYMBOLS



SURVEY

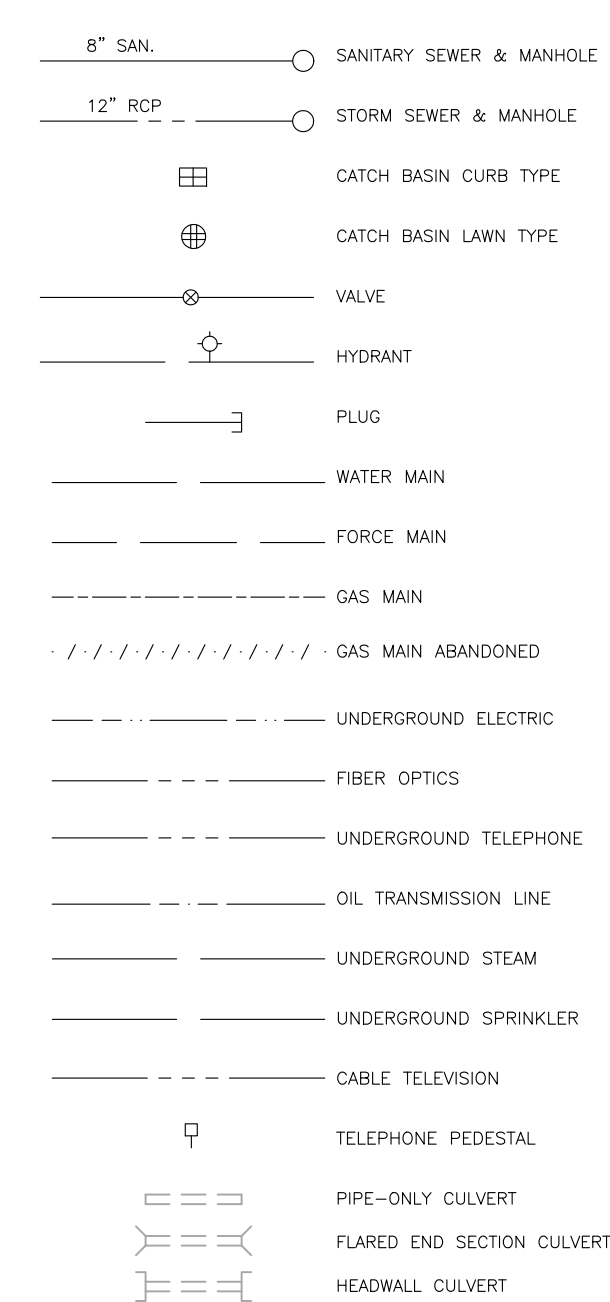


TOPOGRAPHY - PLAN

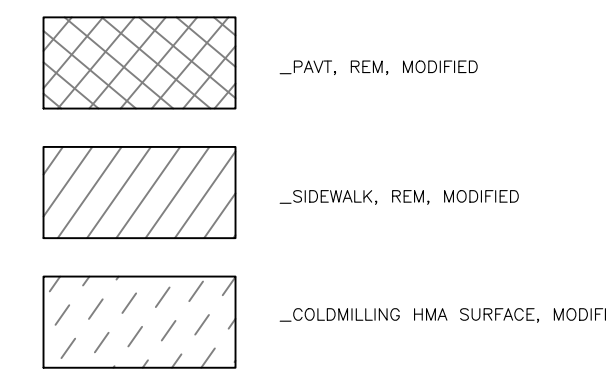


ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

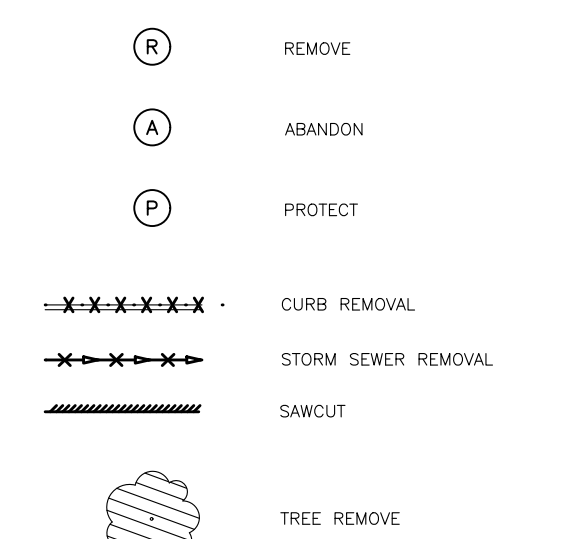
EXISTING UTILITIES



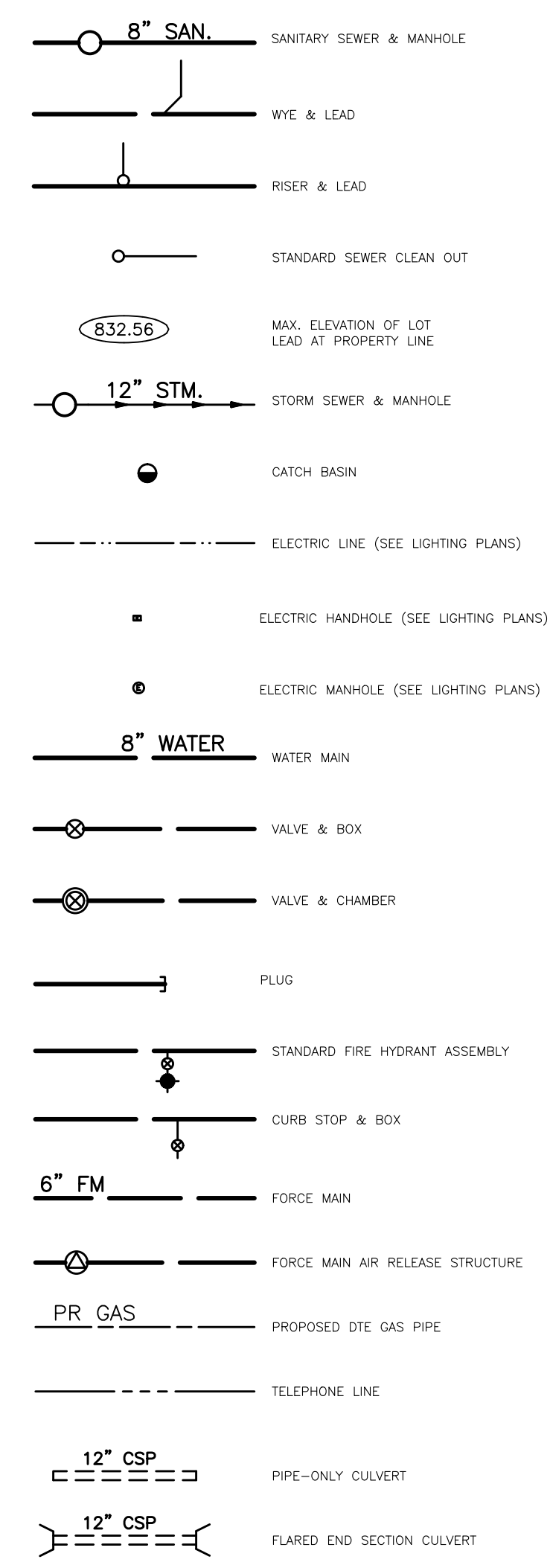
SURFACING REMOVAL



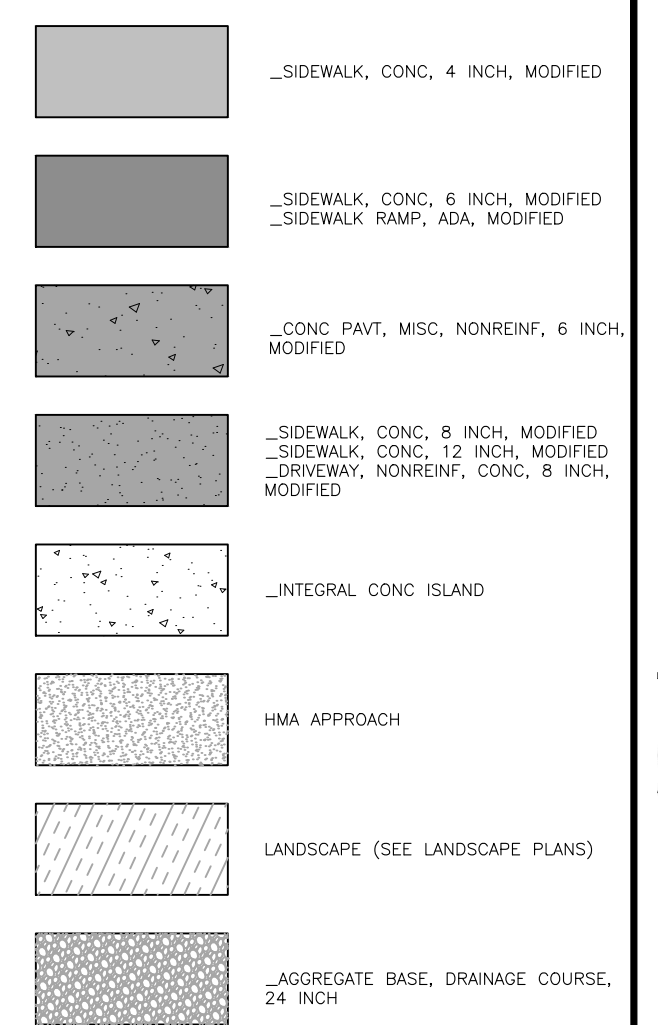
REMOVAL



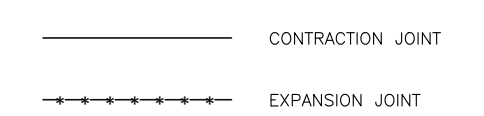
PROPOSED UTILITIES



SURFACING PROPOSED



PROPOSED JOINTS



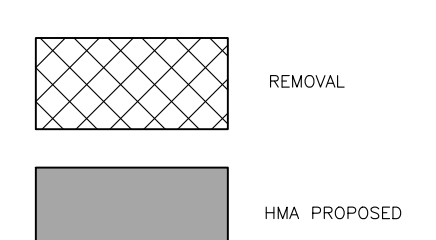
PROPOSED SIDEWALK RAMP



PROPOSED FURNISHING



TYPICAL SECTION



SMITHGROUP
500 GRISWOLD SUITE 1700
DETROIT, MI 48266
313.993.3600
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

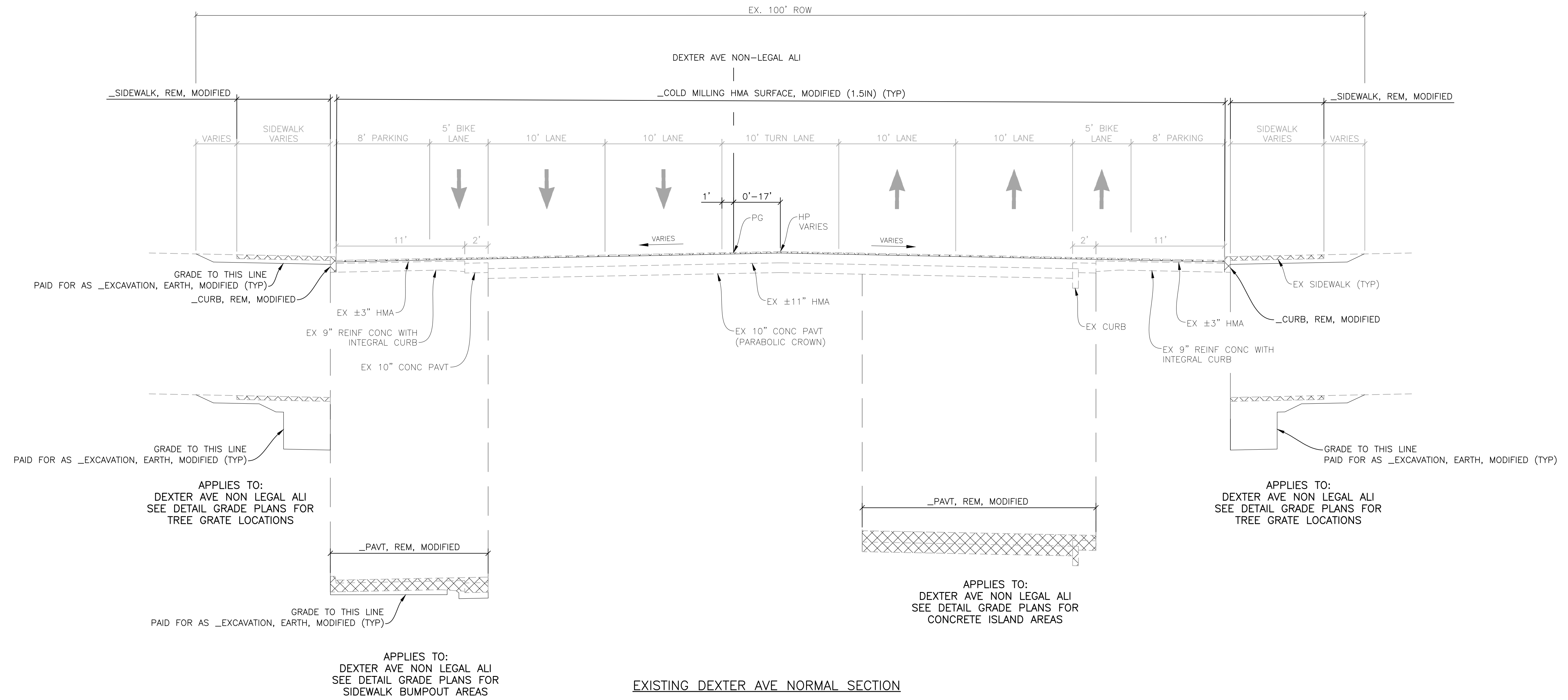
Table with 2 columns: Date and Description. Revisions include 07/21/2023 100% CD, 06/09/2023 90% CD, 04/28/2023 60% CD, and 03/10/2023 30% CD.

Table with 2 columns: Role and Name. Includes Drawn By AOF, Designer AOF, Reviewer SJP/DPE, and Manager KK3.

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO. 191190
SHEET NO. 3
LEG001





**EXISTING DEXTER AVE NORMAL SECTION**

APPLIES TO:  
DEXTER AVE NON LEGAL ALI  
STA 5+86.00 (POB) TO STA 47+61.30 (POE)

**EXISTING TYPICALS**

SCALE: NO SCALE

REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

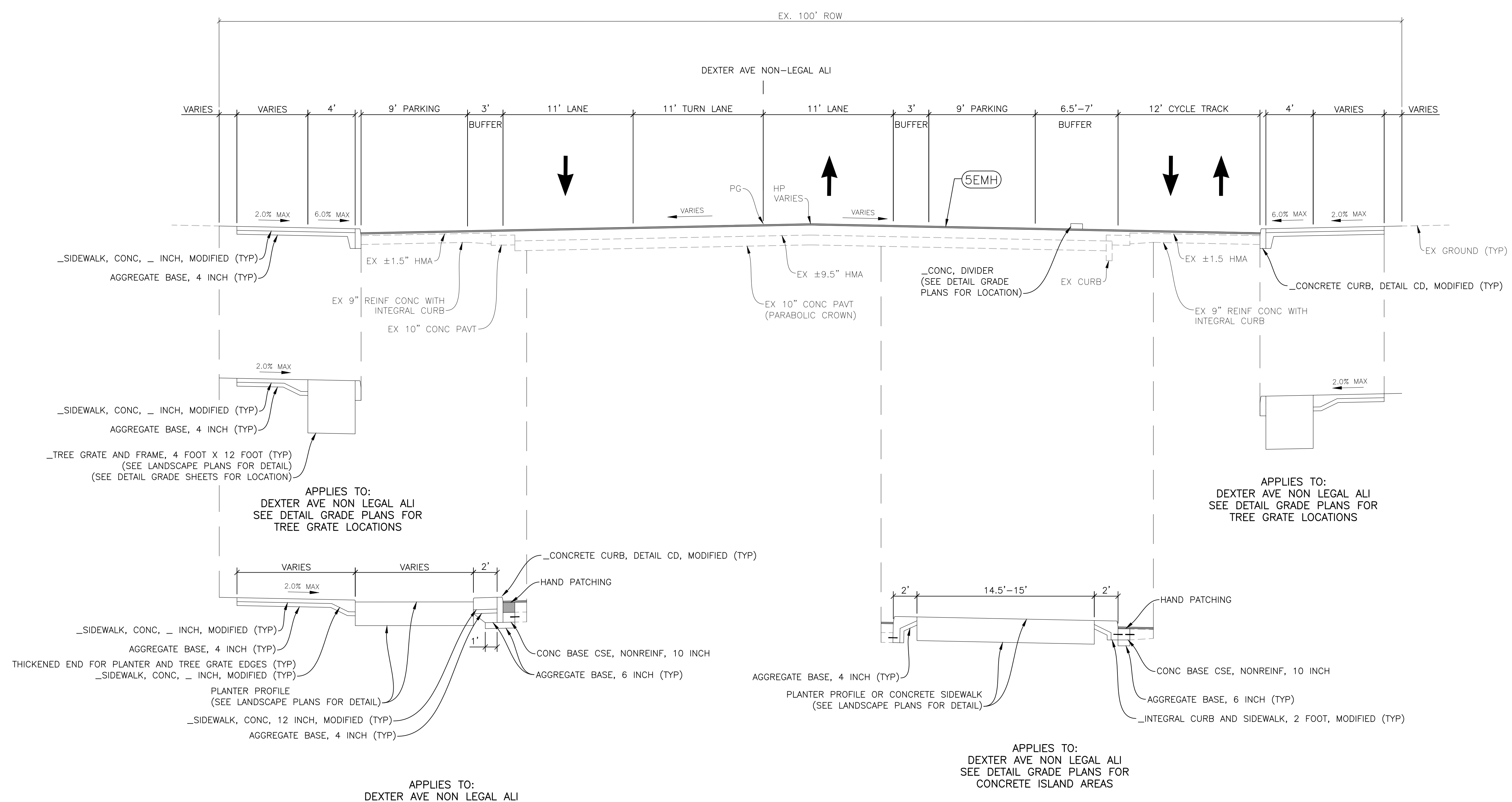
PROJECT NO.

191190

SHEET NO.

5

EXTYP001



**PROPOSED DEXTER AVE NORMAL SECTION**

APPLIES TO:  
DEXTER AVE NON LEGAL ALI  
STA 5+86.00 (POB) TO STA 47+61.30 (POE)

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
SEMh	HMA, 5EMh	165	64-22	TOP COURSE (AWI = 260)
APPR	HMA, APPROACH	165	64-22	USE HMA, 5EMh
HP	HAND PATCHING	165-550	64-22	USE HMA, 5EMh
	*BOND COAT	0.05-0.15 GAL		

- NOTES:**
- THE CONTRACTOR SHALL PLACE ADDITIONAL HMA MIXTURE AT VARIOUS LOCATIONS WHERE NEEDED, IN ORDER TO MAKE A UNIFORM CROSS-SECTION. AN ADDITIONAL 15% OF HMA, 5EMh HAS BEEN ESTIMATED TO PROVIDE MATERIAL TO RE-ESTABLISH THE PAVEMENT CROSS-SECTION AND FOR WEDGING AT MILLED STREET INTERSECTIONS.
  - "\_COLD MILLING HMA SURFACE, MODIFIED" SHALL APPLY ACROSS THE FULL PAVEMENT WIDTH AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
  - IF EXISTING HMA OVERLAY IS LESS THAN 1 1/2", COLD MILL THE FULL DEPTH OR AS DIRECTED BY THE ENGINEER.
  - AGGREGATE BASE TO BE MDOT 21AA.

**PROJECT SUMMARY:**  
COLD MILL 1 1/2 INCHES, AS DIRECTED BY THE ENGINEER, OF EXISTING HMA SURFACE AND REPLACE WITH 1 1/2" OF 5EMh HMA TOP COURSE MIXTURE WITH A YIELD OF 165 LBS PER SQUARE YARD. COLD MILL UP TO 3 INCHES AS NEEDED AT SIDE STREETS TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS. THE PROJECT ALSO INCLUDES CONCRETE CURB, SIDEWALK, CURB RAMPS, DRIVE APPROACHES, DRAINAGE STRUCTURES, EXCAVATION, PAVEMENT REMOVAL, LANE TIES, PAVEMENT MARKINGS, SIGNAGE AND MISCELLANEOUS CONSTRUCTION.

**REVISIONS**

DATE	DESCRIPTION	BY
07/21/2023	100% CD	
06/09/2023	50% CD	
04/28/2023	60% CD	
03/10/2023	30% CD	

Drawn By: AOF  
Designer: AOF  
Reviewer: SJP/DPE  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

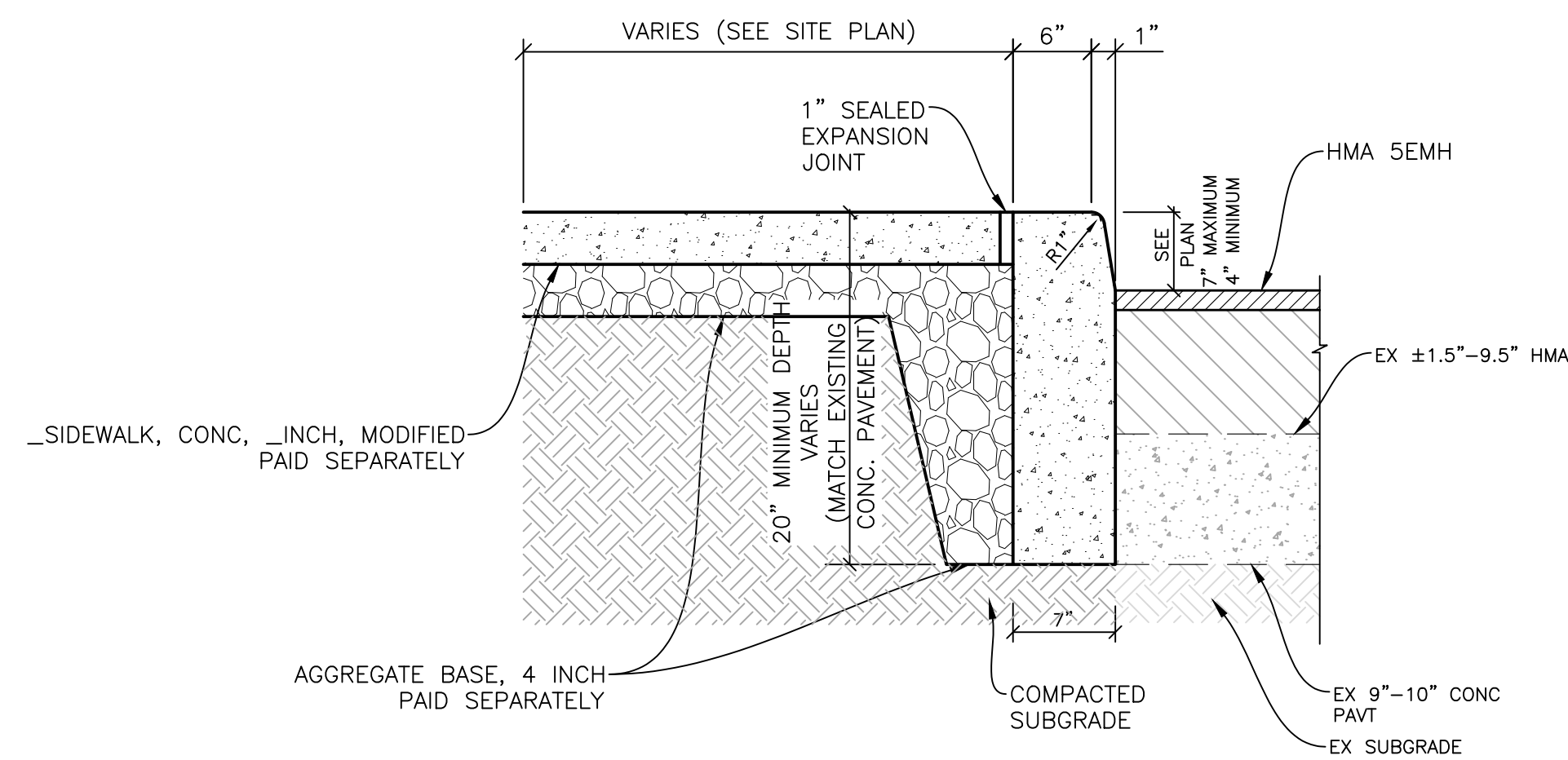
PROJECT NO.  
**191190**

SHEET NO.  
**6**

**PRTYP001**

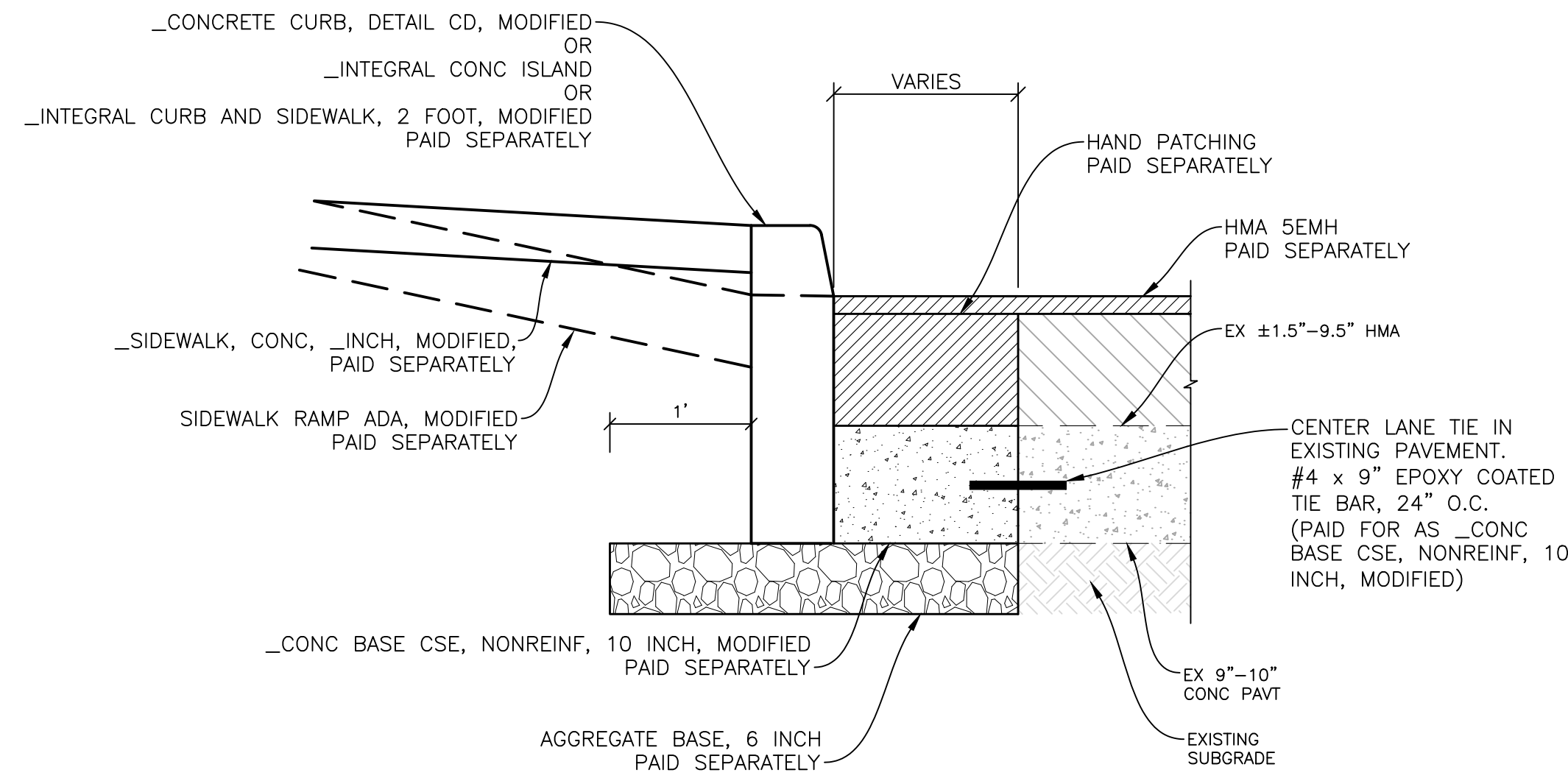
**PROPOSED TYPICALS**

SCALE: NO SCALE

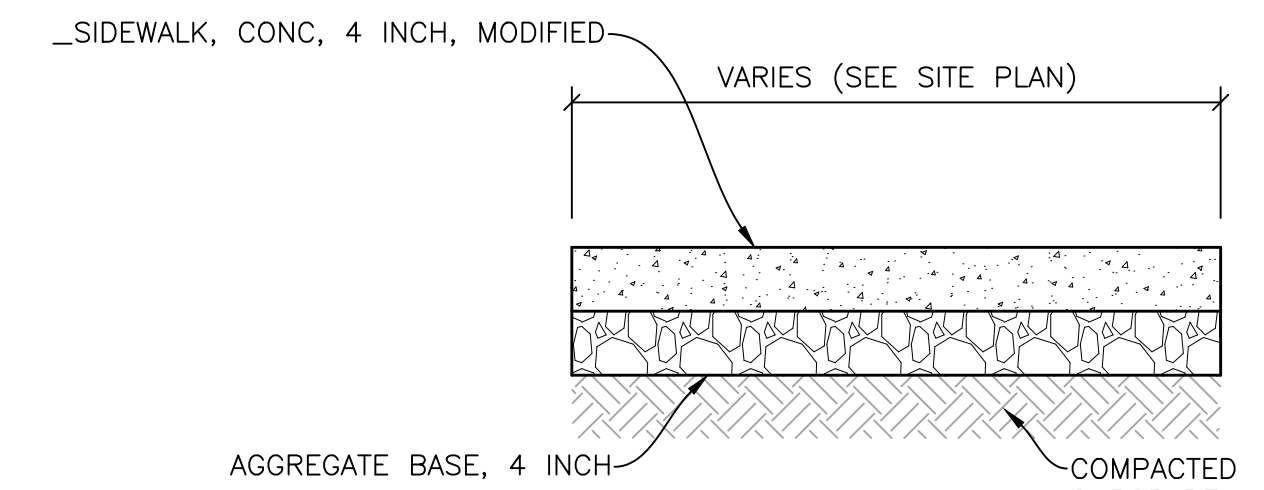


**CONCRETE CURB, DETAIL CD, MODIFIED**  
NO SCALE

NOTE: SEE DETAIL GRADE SHEETS FOR CURB HEIGHTS AND TRANSITIONS.

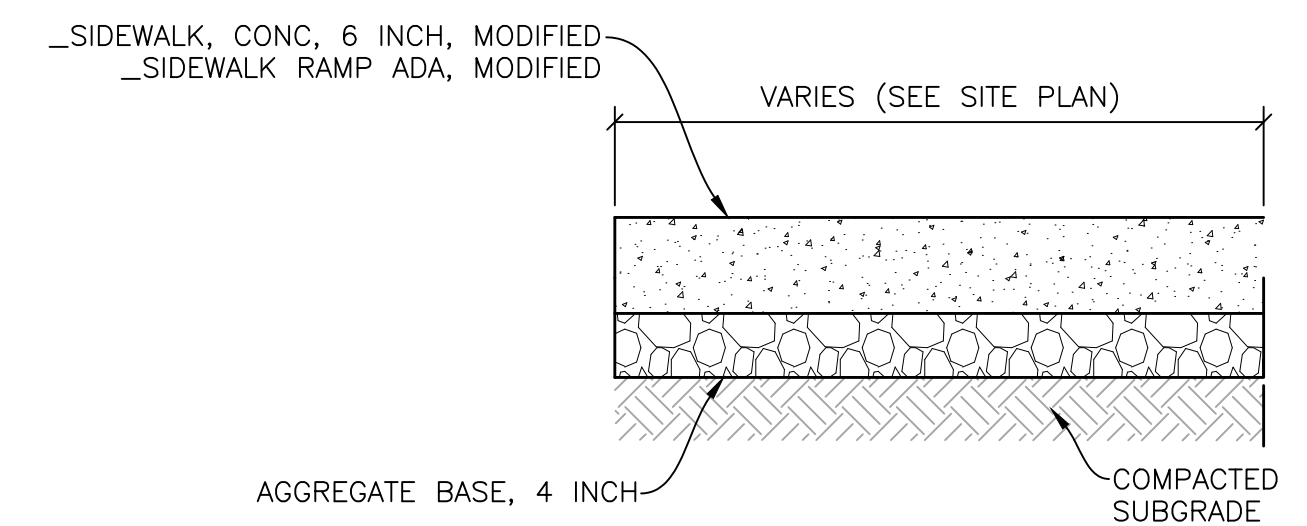


**FULL DEPTH PAVEMENT REPAIR DETAIL**  
NO SCALE



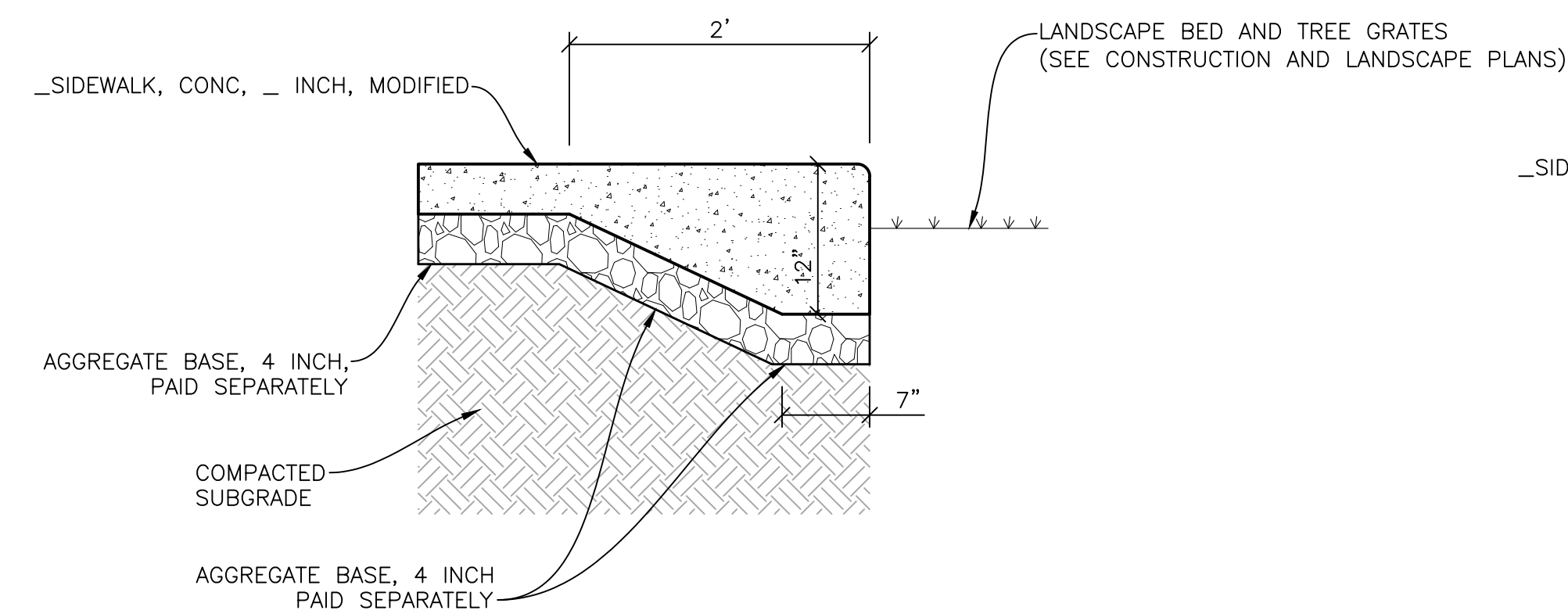
**4 INCH SIDEWALK**  
SCALE: 1"=1

NOTE: REFER TO JOINTING PLANS FOR PAVEMENT JOINT TYPES AND LOCATIONS.



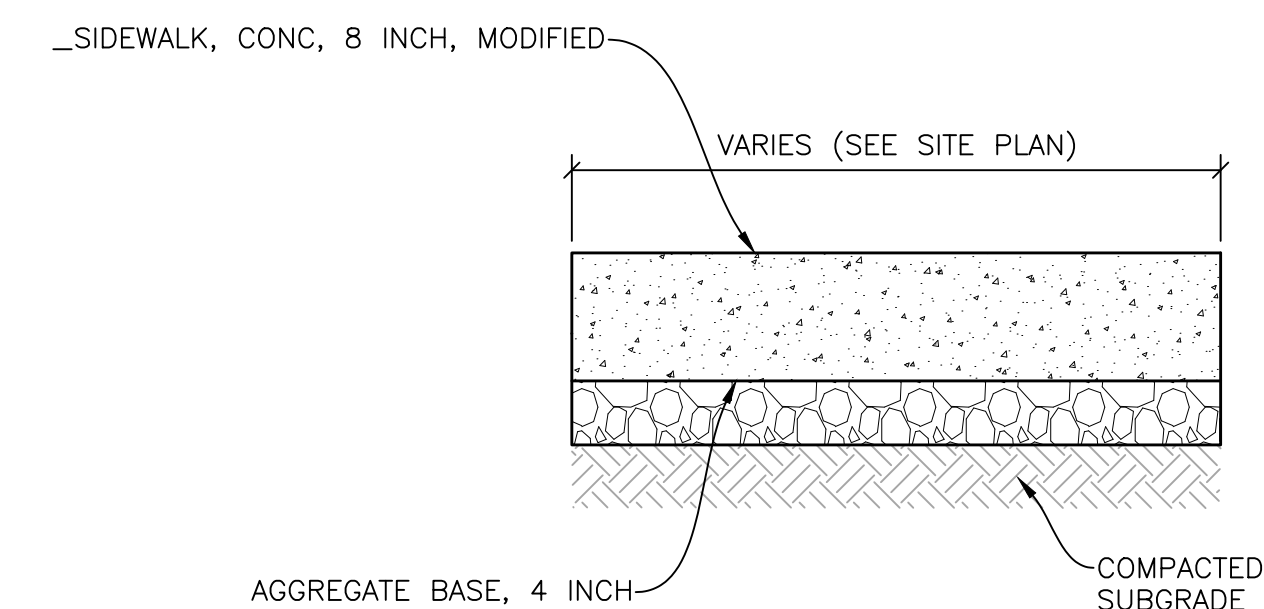
**6 INCH SIDEWALK**  
SCALE: 1"=1

NOTE: ALL SIDEWALK TO BE 6" AT ADA SIDEWALK RAMPS AND AT BUS SHELTER LOCATIONS. REFER TO JOINTING PLANS FOR PAVEMENT JOINT TYPES AND LOCATIONS.



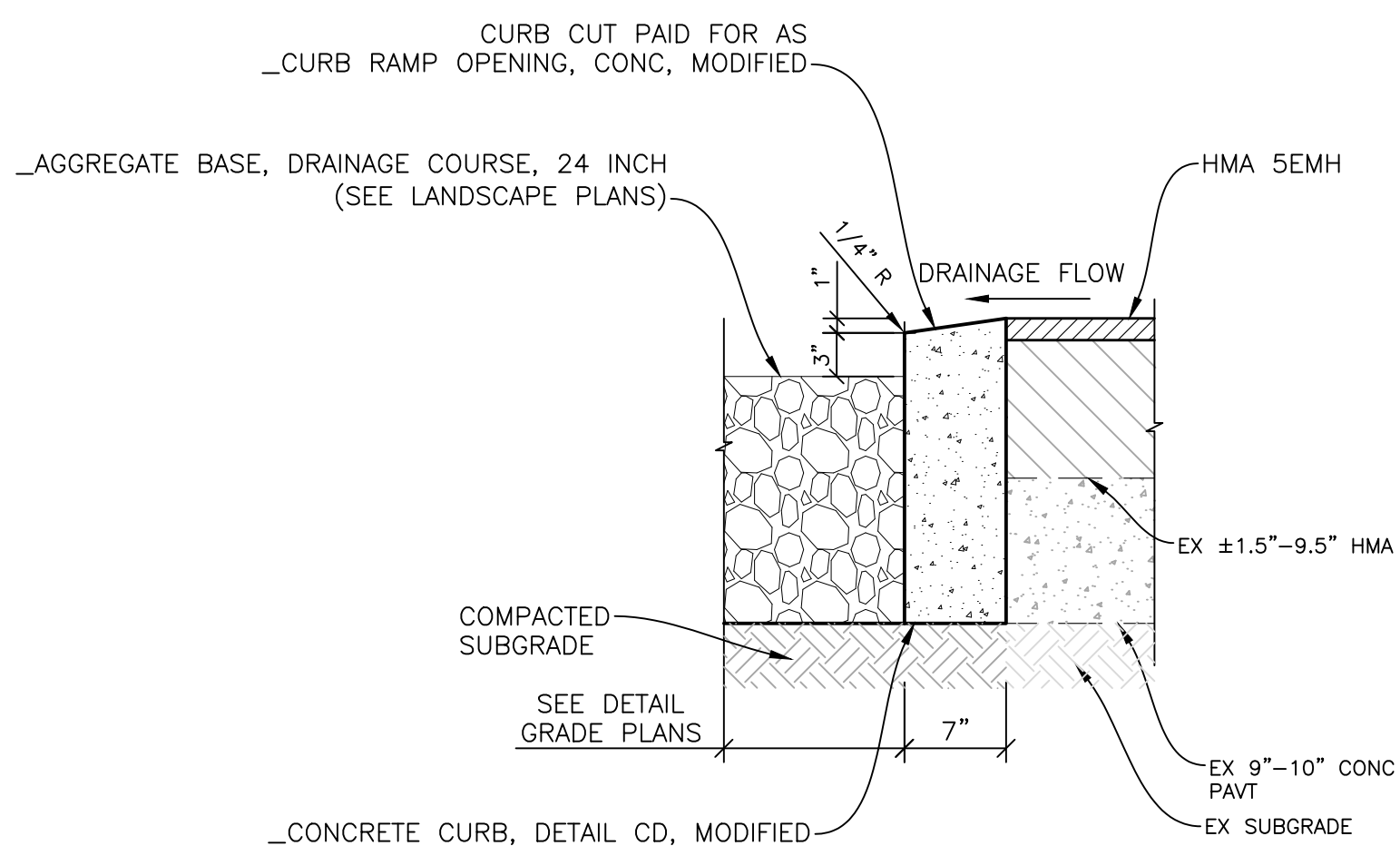
**NOTES:**  
1. THICKENED END OF SIDEWALK TO BE PAID FOR AS SIDEWALK, CONC, 12 INCH, MODIFIED  
2. SIDEWALK TO BE THICKENED AT THE LANDSCAPE BED EDGE AND AT TREE GRATES. (SEE LANDSCAPE PLANS FOR DETAIL)

**12 INCH SIDEWALK (THICKENED END DETAIL)**  
NO SCALE



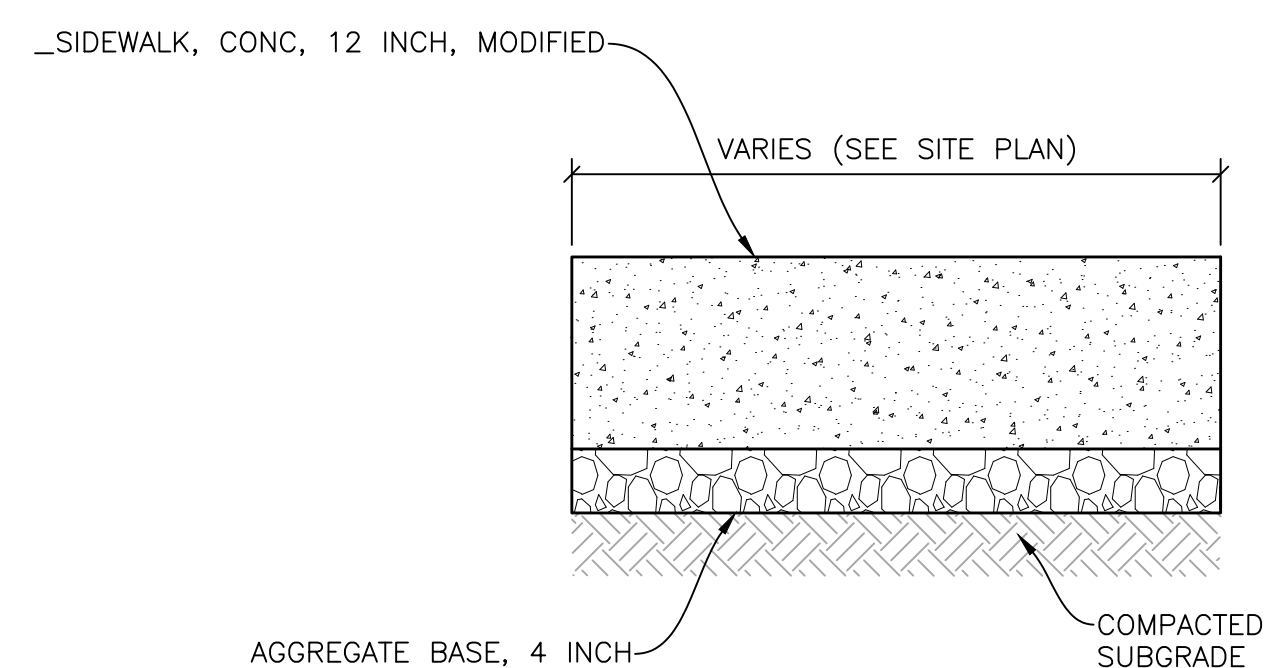
**8 INCH SIDEWALK**  
SCALE: 1"=1

NOTE: REFER TO JOINTING PLANS FOR PAVEMENT JOINT TYPES AND LOCATIONS.



**CURB OPENING AT RAIN GARDEN DETAIL**  
NO SCALE

**NOTES:**  
1. SEE DETAIL GRADE SHEETS FOR LOCATIONS



**12 INCH SIDEWALK**  
SCALE: 1"=1

NOTE: REFER TO JOINTING PLANS FOR PAVEMENT JOINT TYPES AND LOCATIONS.

**MISCELLANEOUS DETAILS**

**REVISIONS**

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

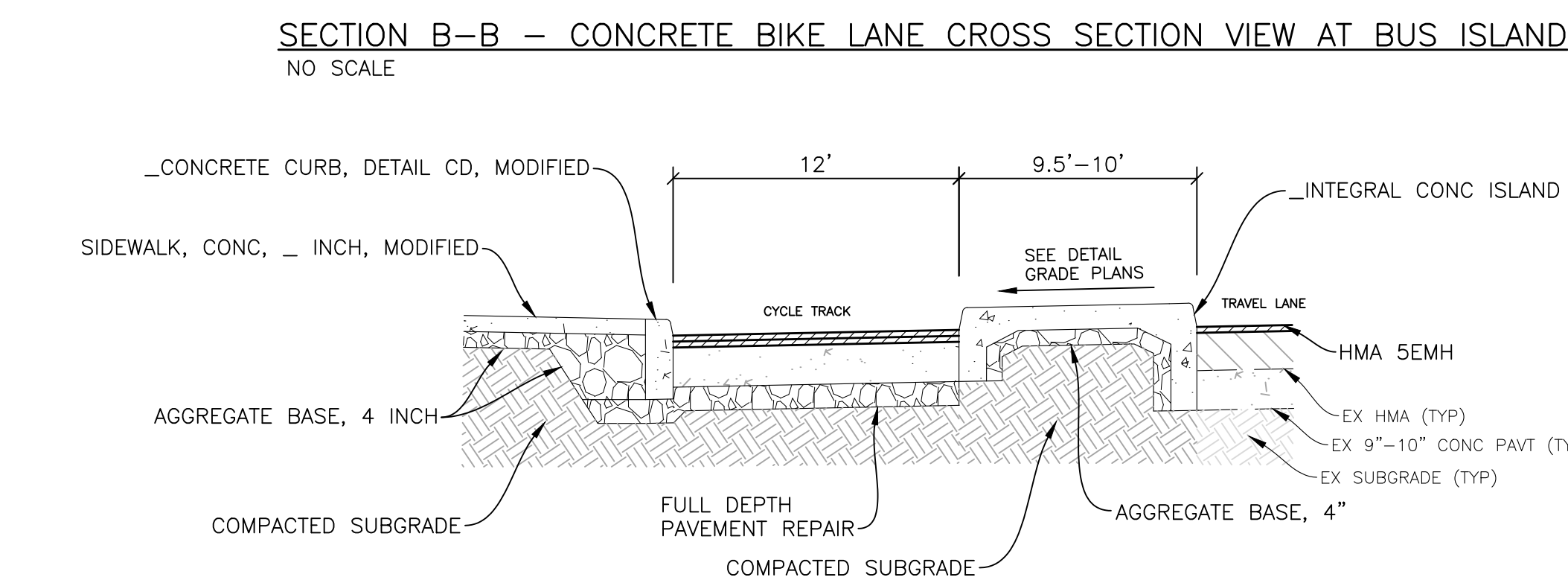
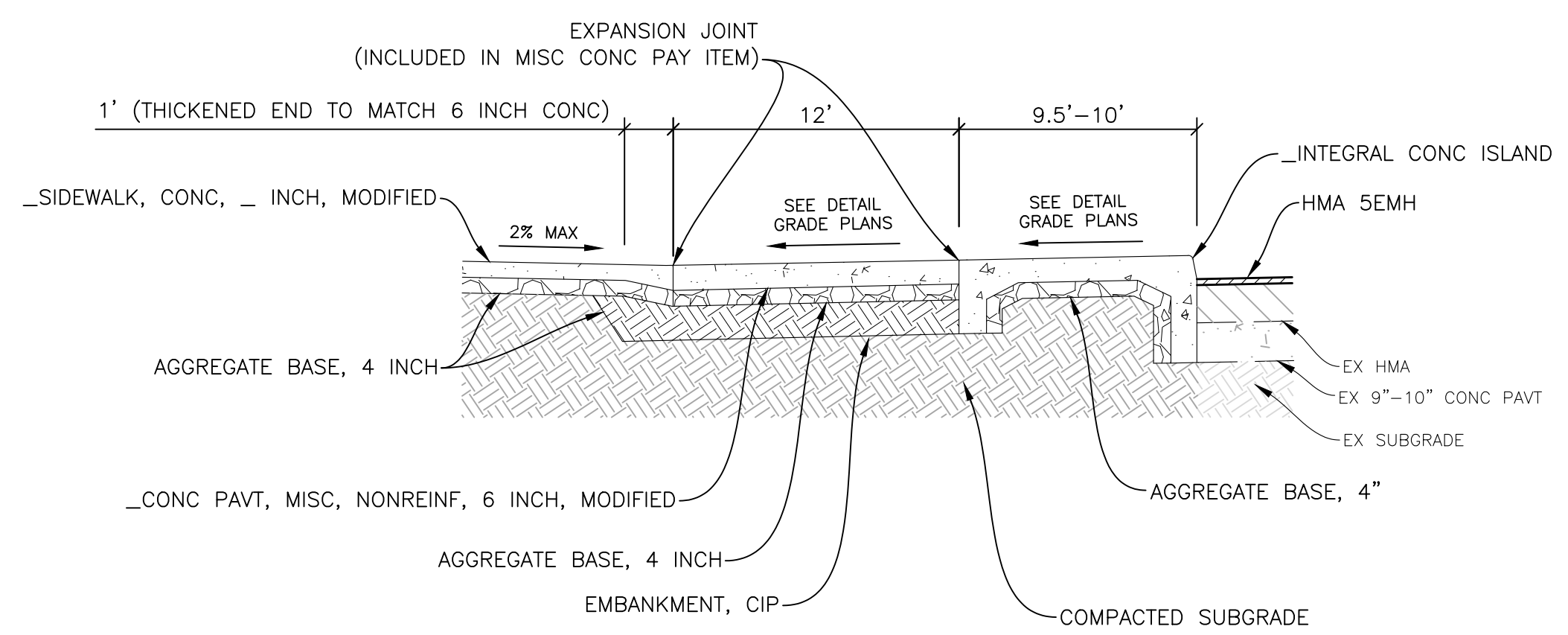
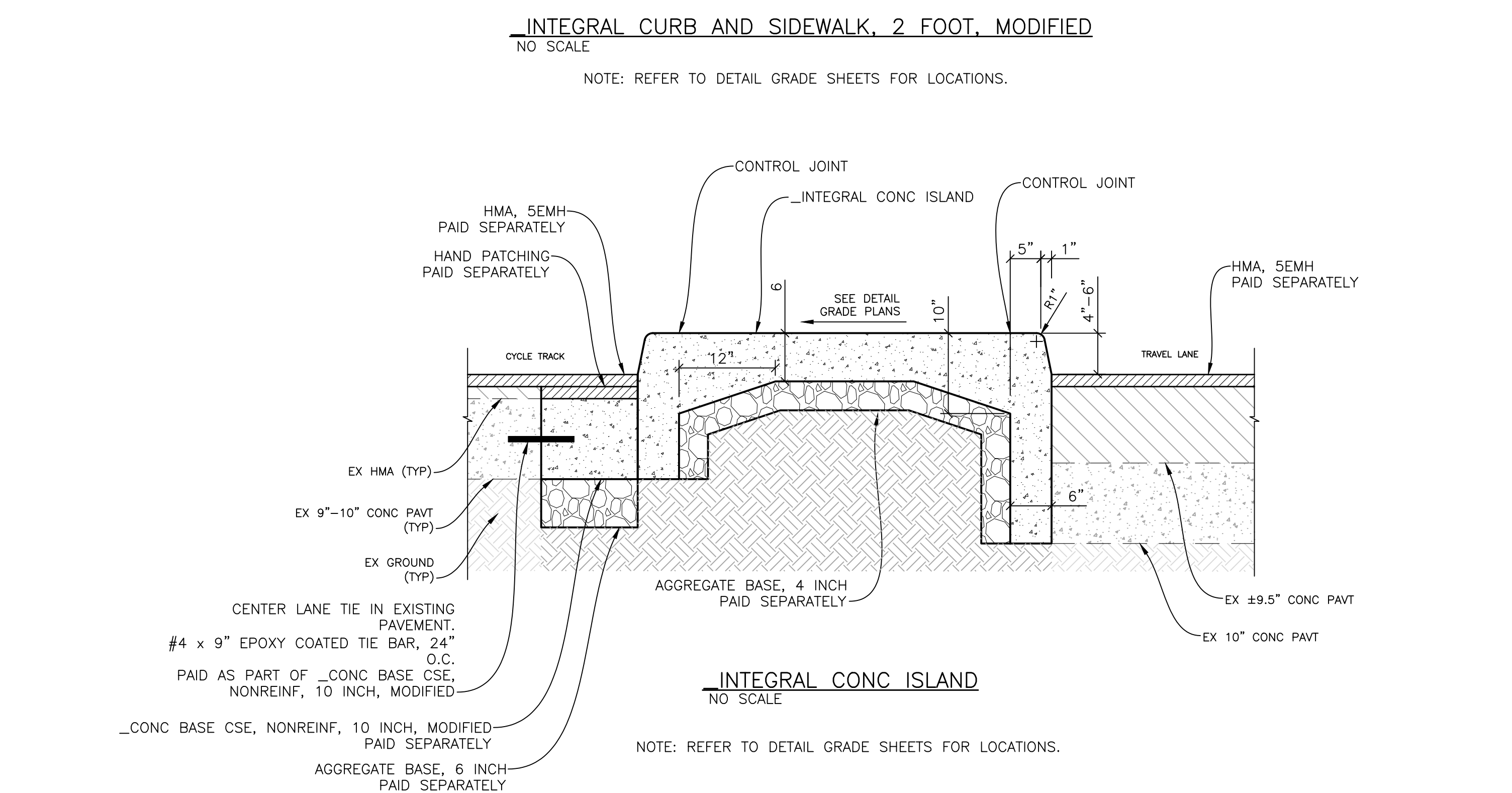
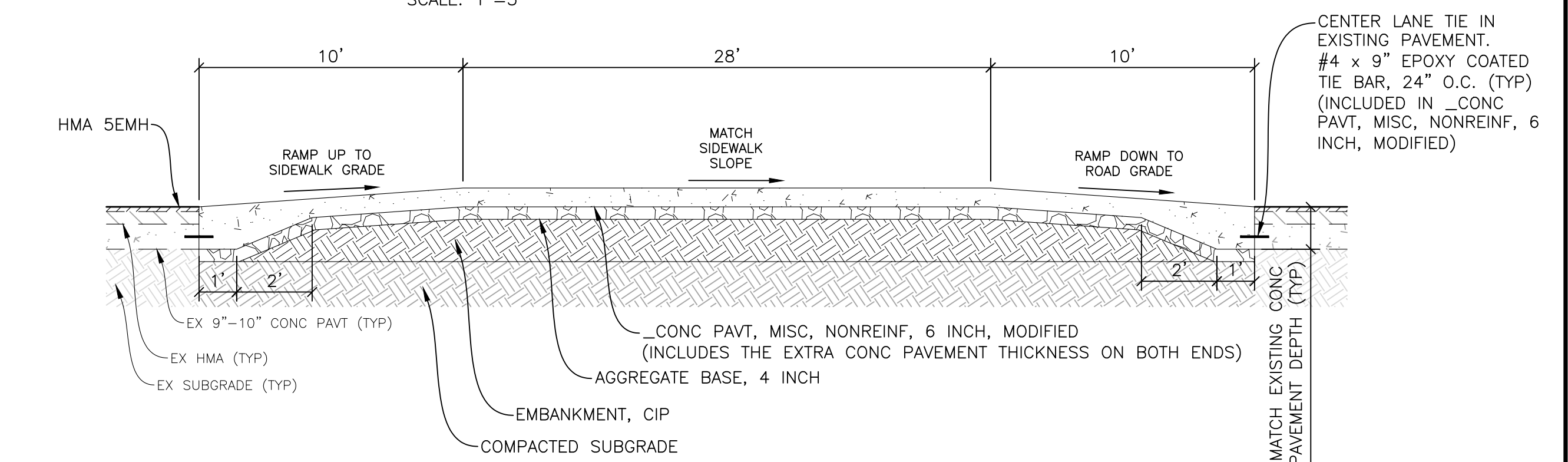
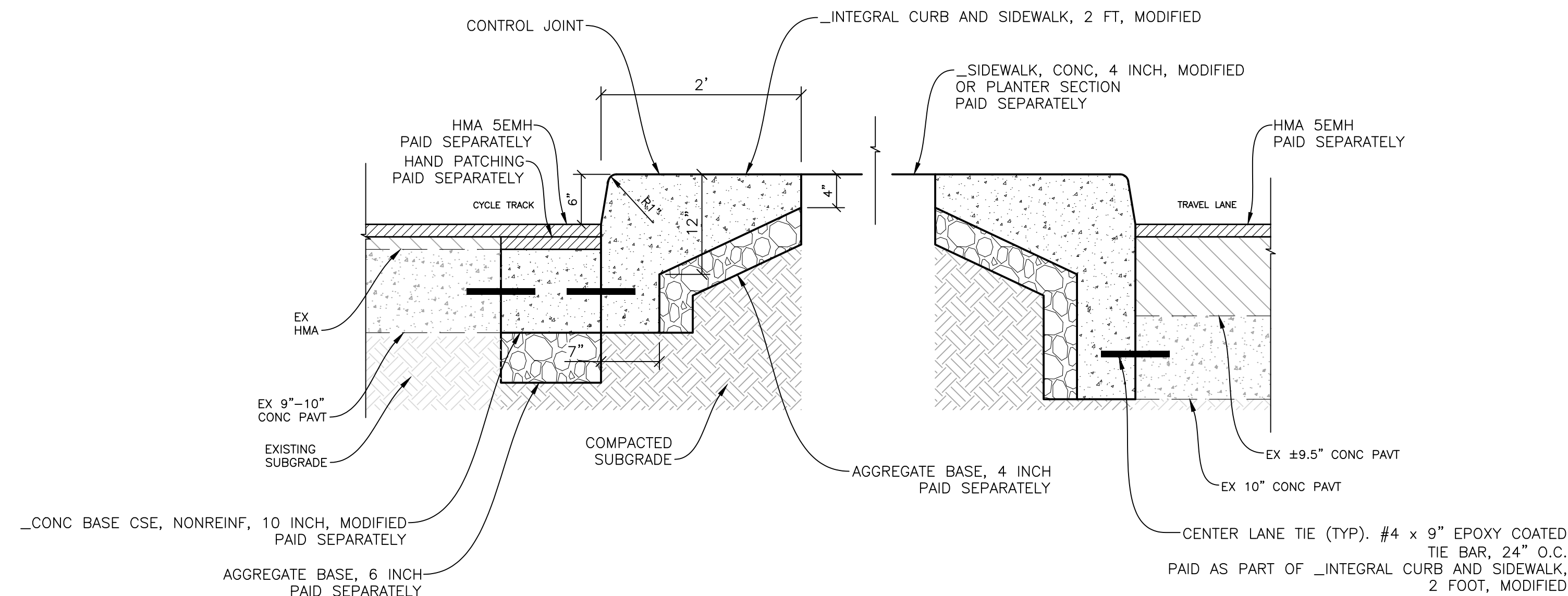
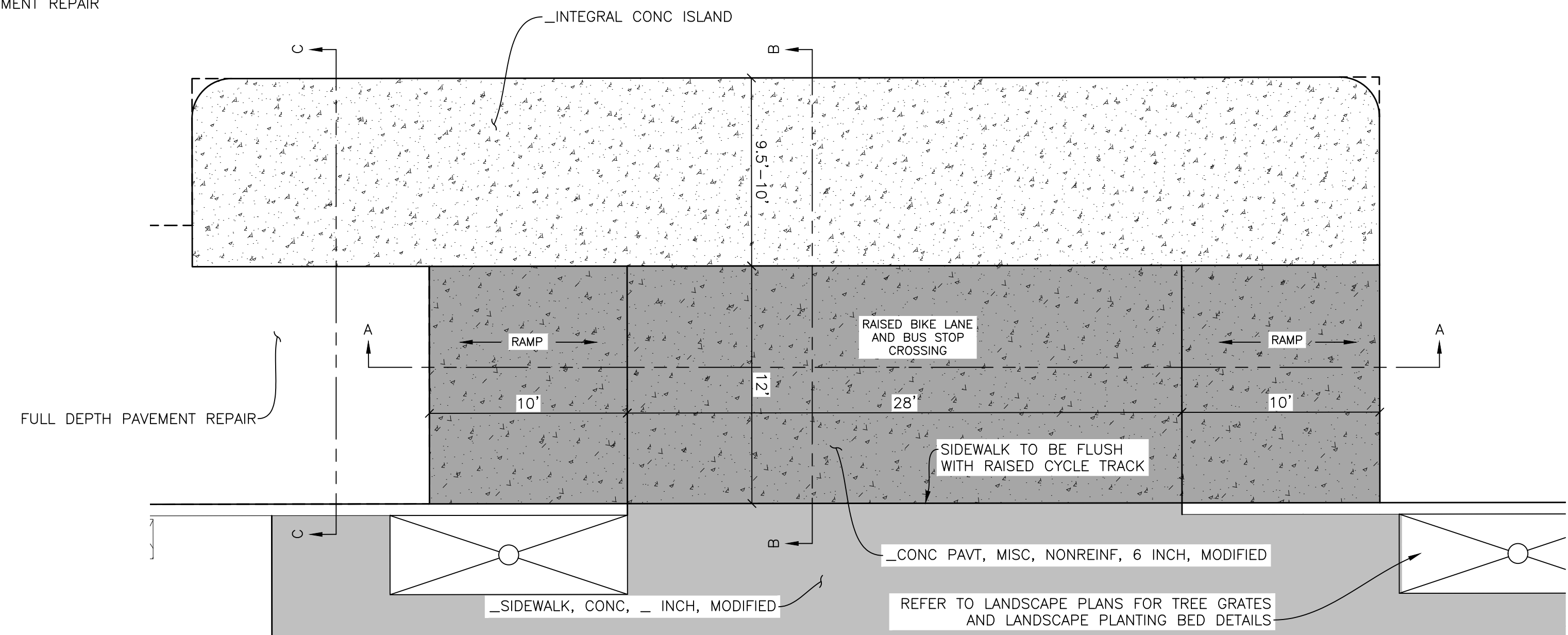
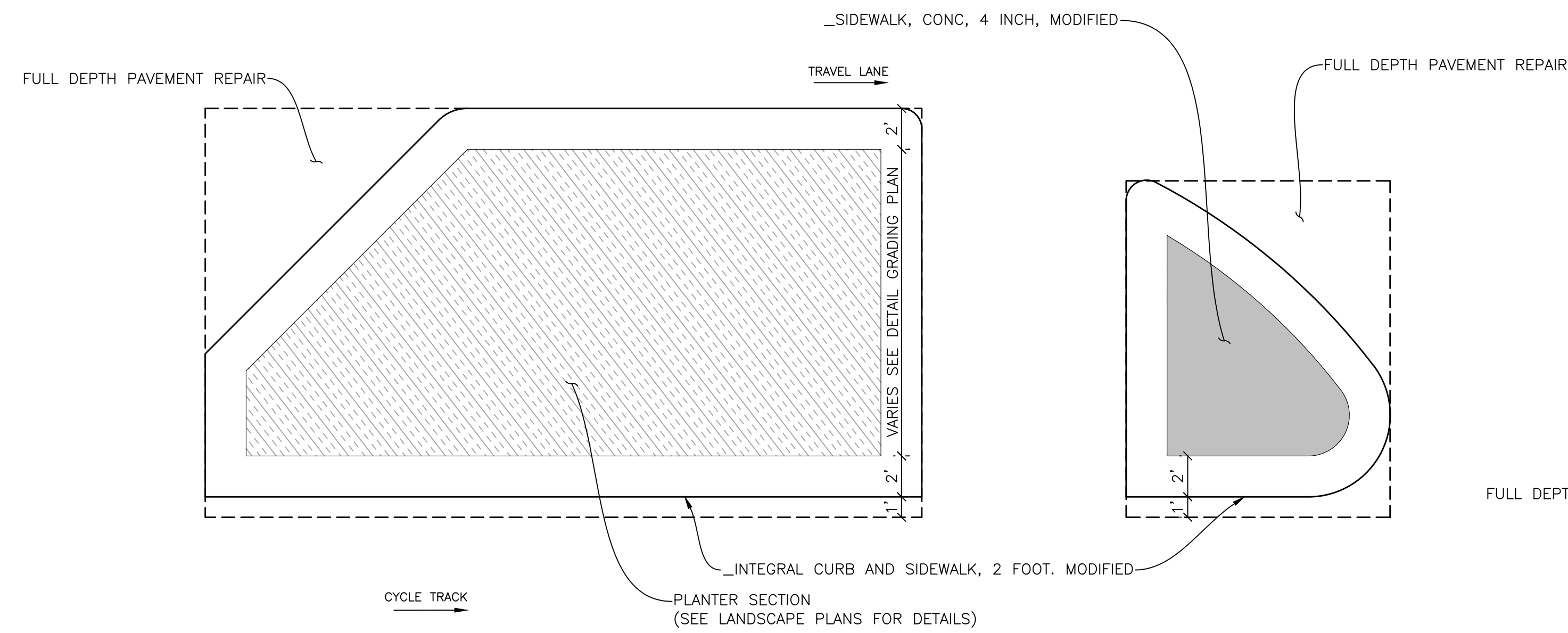
Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**7**

**MSCDET001**



MISCELLANEOUS DETAILS

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MSCDET\_002.DWG LAYOUT: MSCDET002 DATE: 7/17/2023 TIME: 8:04:41 PM USER: AOPRANZON



REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

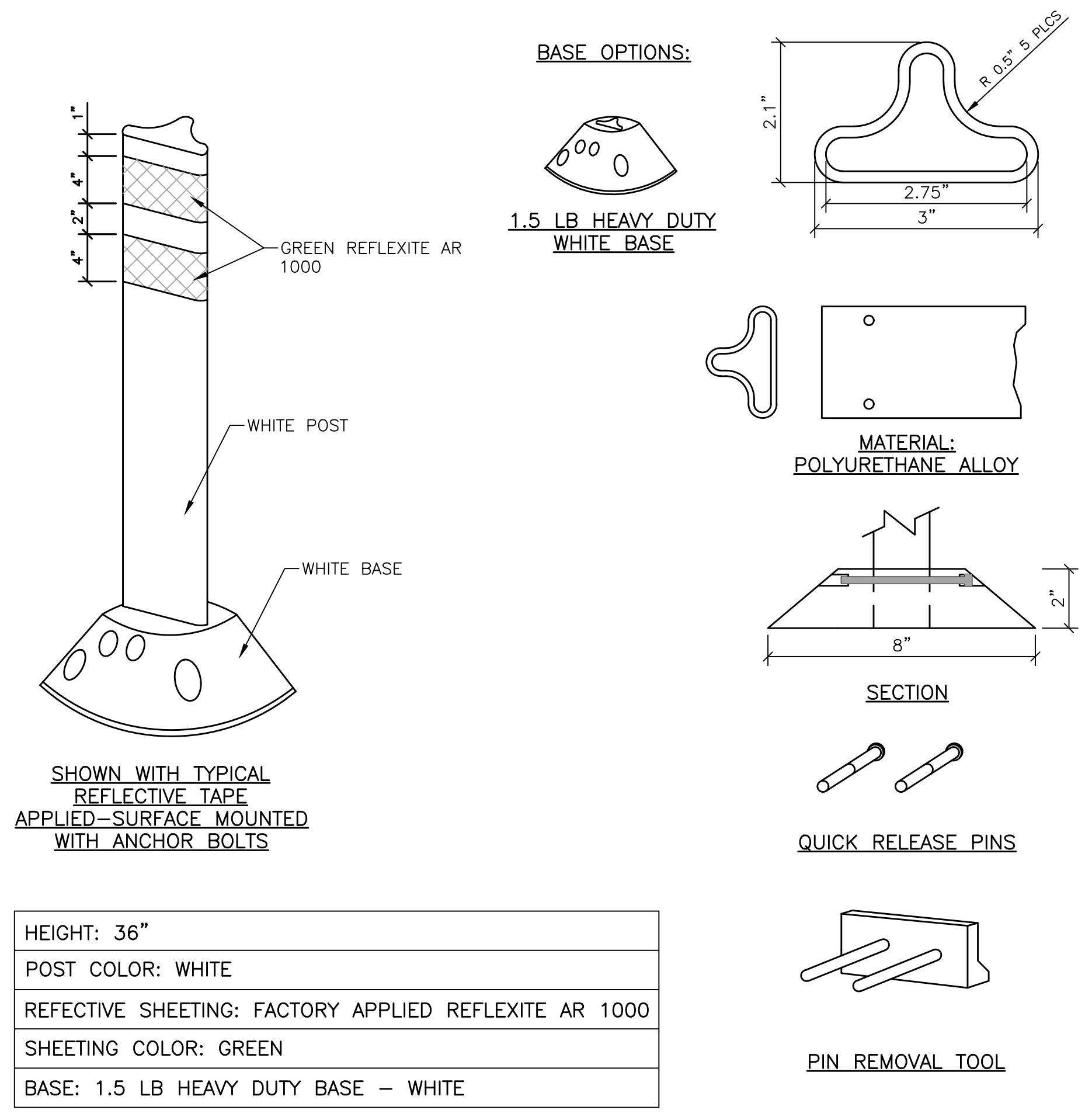
Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DPE  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**  
 SHEET NO.  
**8**

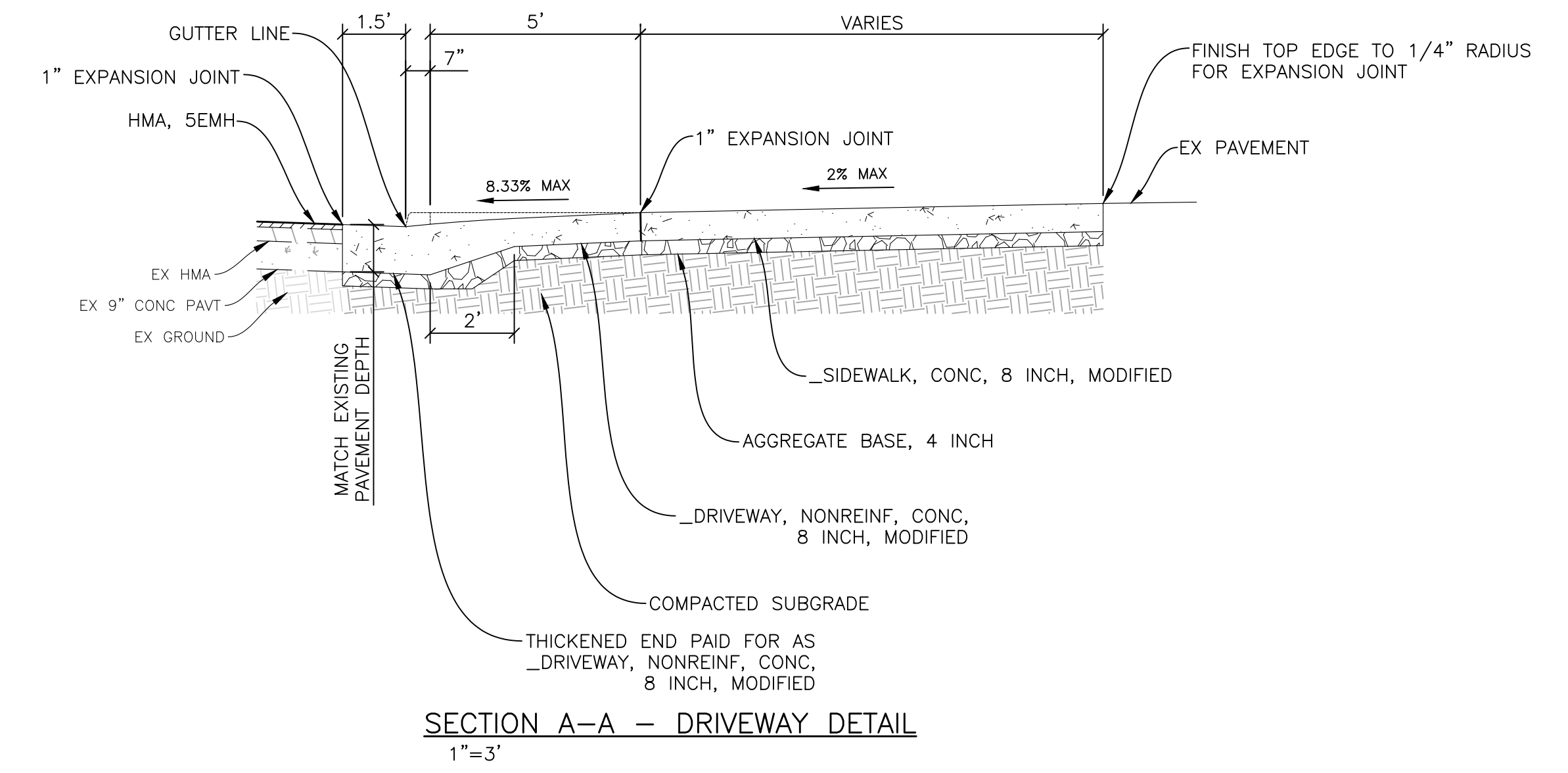
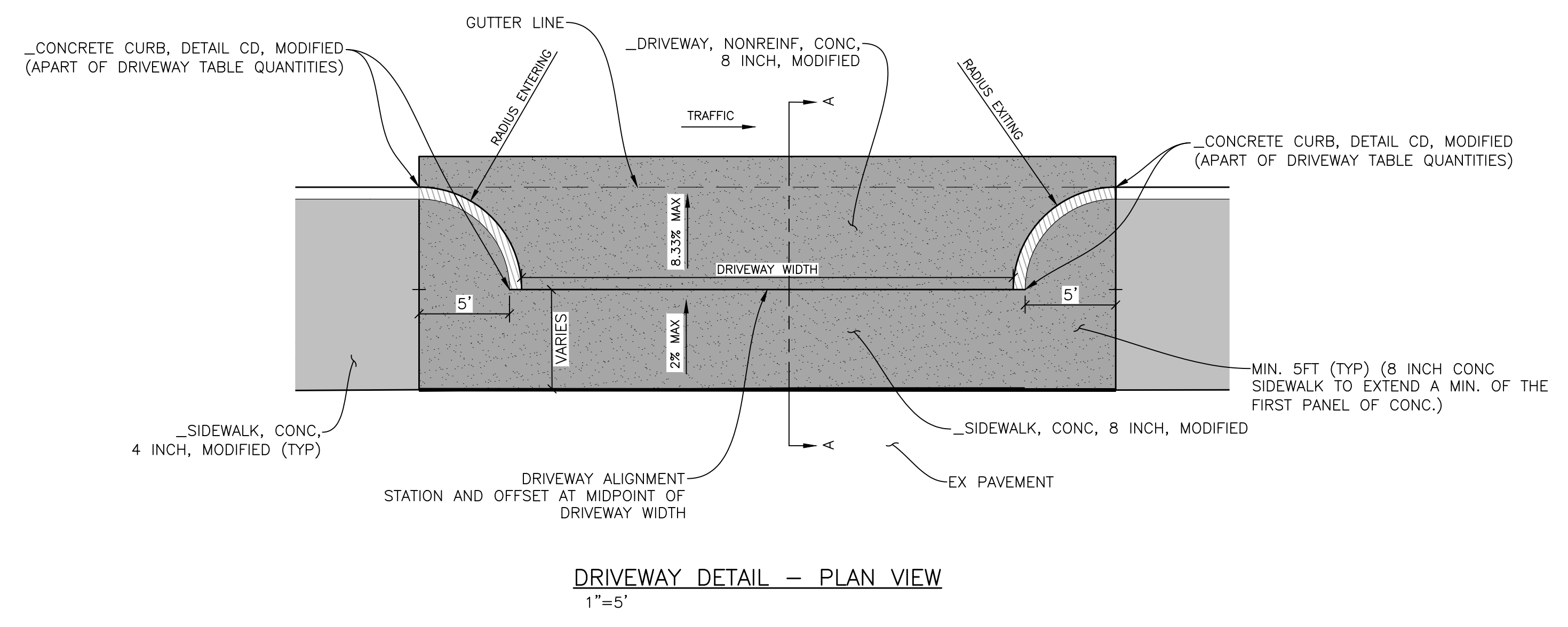
**MSCDET002**





**NOTES:**  
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

POST, DELINEATOR, 36 INCH, WHITE  
 NO SCALE



MISCELLANEOUS DETAIL

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MSCDET\_003.DWG LAYOUT: MSCDET003 DATE: 7/17/2023 TIME: 8:05:26 PM USER: AOF/ANZON



REVISIONS	
07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DPE  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.	191190
SHEET NO.	9
MSCDET003	

HUMPHREY STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



SMITHGROUP

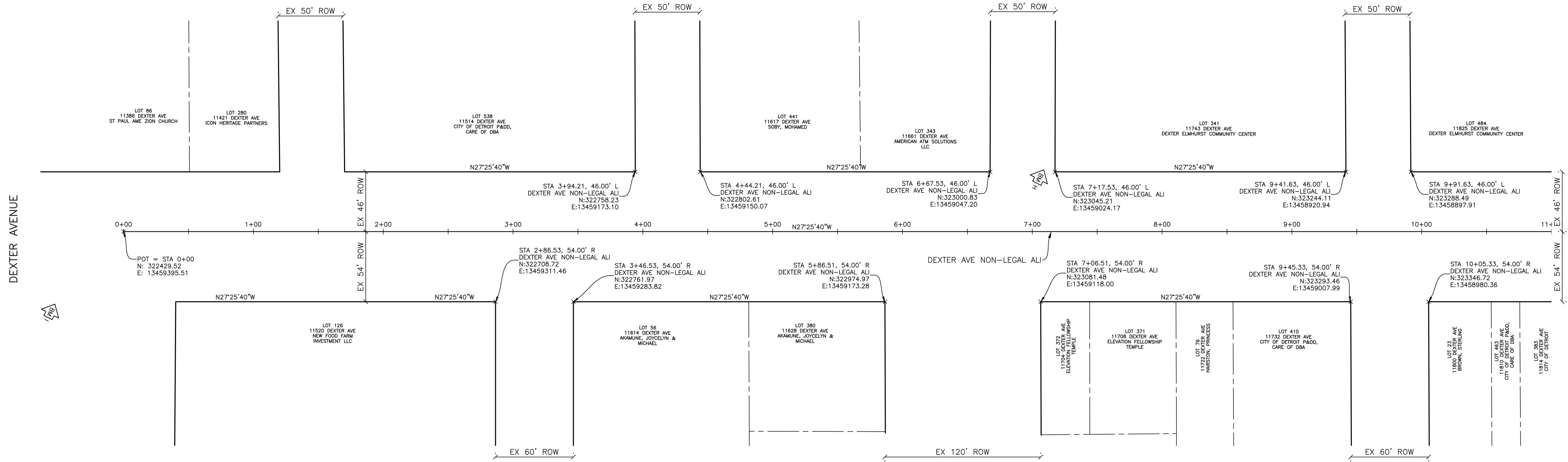
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00



BENCHMARKS

HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88

BENCHMARK H ELEV. 637.61  
CHISELED X ON NORTHEASTERLY UPPER FLANGE  
BOLT ON HYDRANT AT NORTHWEST CORNER OF  
DEXTER AND WEBB

BENCHMARK I ELEV. 638.43  
CHISELED X ON NORTHWESTERLY UPPER FLANGE  
BOLT ON HYDRANT AT SOUTHEAST CORNER OF  
DEXTER AND LAWRENCE

SURVEYED BY:

SURVEY PROVIDED BY: FISHBEEK ON SEPTEMBER 12,  
2019 AND JULY 26TH 2022 AND REFLECT CONDITIONS  
AT THAT TIME

ALIGNMENT AND SURVEY PLAN

SCALE: 1" = 40'  
0 20 40 80

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_ALIGN\_001.DWG LAYOUT: ALIGN001 DATE: 7/17/2023 TIME: 6:08:47 PM USER: ACFRANZON

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KKS

Hard copy is intended to be  
24"x36" when plotted. Scale(s)  
indicated and graphic quality may  
not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

10

ALIGN001

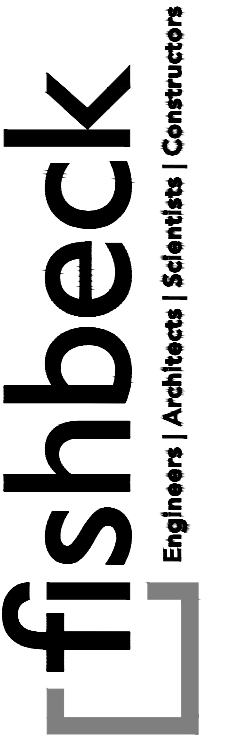
© Copyright 2023  
All Rights Reserved

ELMHURST STREET

DUANE STREET

MONTEREY STREET

RICHTON STREET



SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com

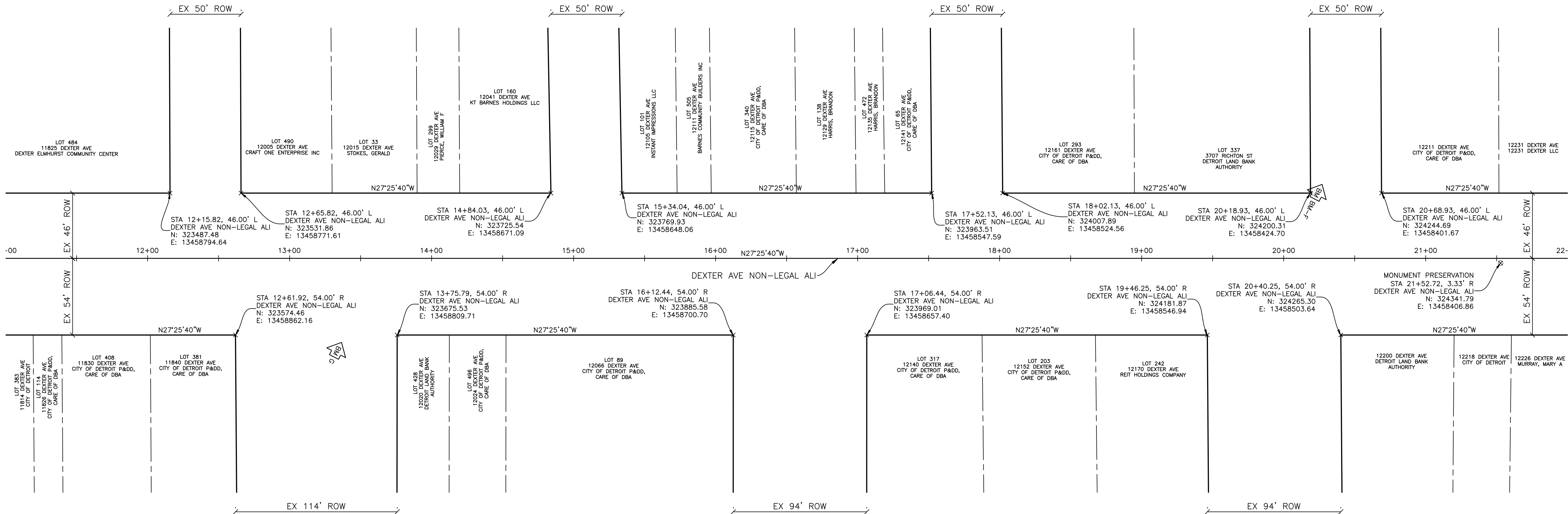


City of Detroit

Dexter Avenue Streetscape

DEXTER AVENUE

DEXTER AVENUE



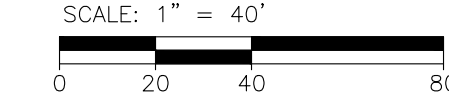
BENCHMARKS

HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88  
  
BENCHMARK F ELEV. 639.76  
CHISELED X ON SOUTHWESTERLY UPPER FLANGE  
BOLT ON HYDRANT AT NORTHWEST CORNER OF  
DEXTER AND STURTEVANT  
  
BENCHMARK G ELEV. 640.28  
CHISELED X ON EASTERLY UPPER FLANGE  
BOLT ON HYDRANT AT NORTHEAST CORNER OF  
DEXTER AND ELMHURST

SURVEYED BY:

SURVEY PROVIDED BY: FISHED ON SEPTEMBER 12,  
2019 AND JULY 26, 2022 AND REFLECT CONDITIONS  
AT THAT TIME

ALIGNMENT AND SURVEY PLAN



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KKS

Hard copy is intended to be  
24"x36" when plotted. Scale(s)  
indicated and graphic quality may  
not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
11  
ALIGN002

© Copyright 2023  
All Rights Reserved

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_ALIGN\_002.DWG LAYOUT: ALIGN002 DATE: 7/17/2023 TIME: 8:12:15 PM USER: ACFRANZON

ELMHURST STREET

MONTEREY STREET

RICHTON STREET

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



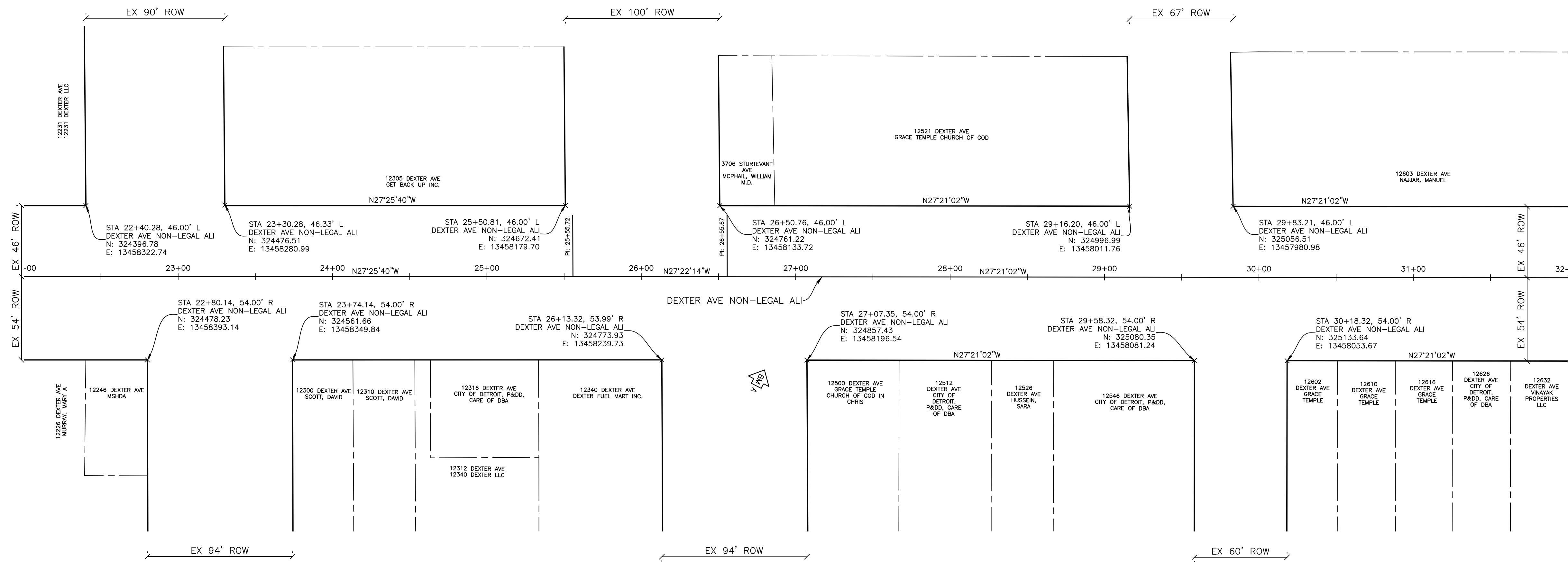
SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape



DEXTER AVENUE

DEXTER AVENUE

BENCHMARKS

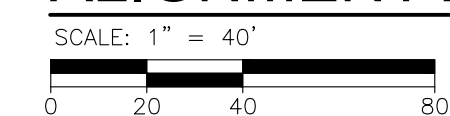
HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88

BENCHMARK A ELEV: 641.79  
CHISELED X ON SOUTHWESTERLY UPPER FLANGE  
BOLT ON HYDRANT AT NORTHWEST CORNER OF  
DEXTER AND STURTEVANT

SURVEYED BY:

SURVEY PROVIDED BY: FISHBEEK ON SEPTEMBER 12,  
2019 AND REFLECT CONDITIONS AT THAT TIME

ALIGNMENT AND SURVEY PLAN



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_ALIGN\_000.DWG LAYOUT: ALIGN003 DATE: 7/17/2023 TIME: 8:15:26 PM USER: ACFRANZON

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be  
 24"x36" when plotted. Scale(s)  
 indicated and graphic quality may  
 not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

12

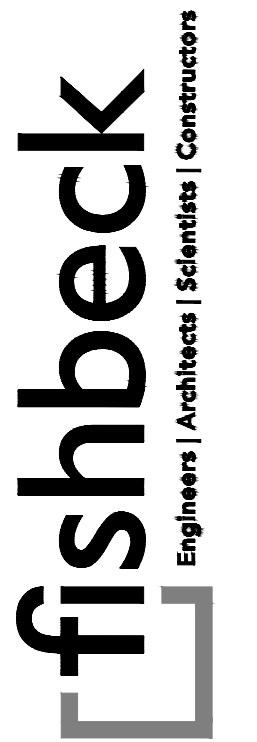
ALIGN003

© Copyright 2023  
All Rights Reserved

LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



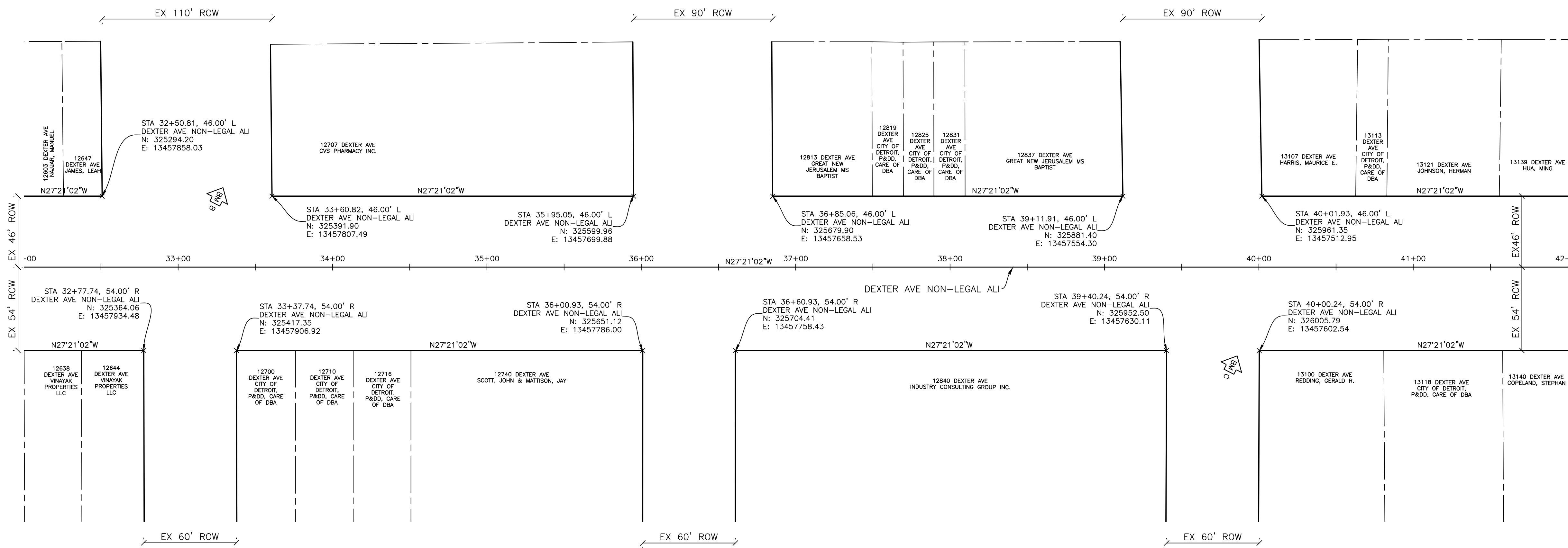
SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape



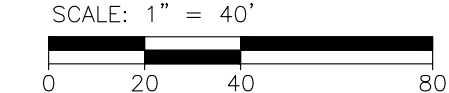
BENCHMARKS

HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88  
  
BENCHMARK B ELEV. 641.93  
CHISELED X ON NORTHEASTERLY UPPER FLANGE  
BOLT ON HYDRANT AT SOUTHWEST CORNER OF  
DEXTER AND LESLIE  
  
BENCHMARK C ELEV. 644.33  
ARROW ON HYDRANT AT NW CORNER OF  
DEXTER AND BUENA VISTA

SURVEYED BY:

SURVEY PROVIDED BY: FISHBEEK ON SEPTEMBER 12,  
2019 AND REFLECT CONDITIONS AT THAT TIME

ALIGNMENT AND SURVEY PLAN



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_ALIGN\_004.DWG LAYOUT: ALIGN004 DATE: 7/17/2023 TIME: 8:18:37 PM USER: ACFRANZON

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DPE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190  
SHEET NO.  
13  
ALIGN004

LESLIE STREET

GLENDALE AVENUE

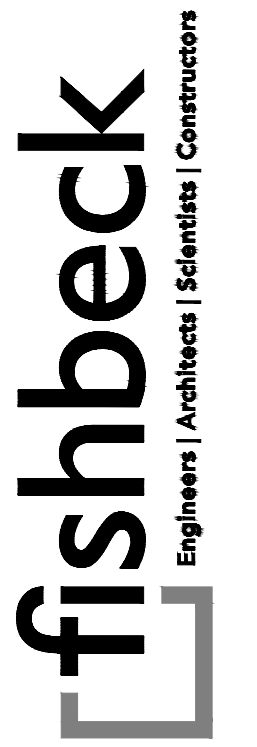
BUENA VISTA STREET

TYLER STREET

WAVERLY STREET

W DAVISON STREET (M-8)

CLEMENTS ST



SMITHGROUP

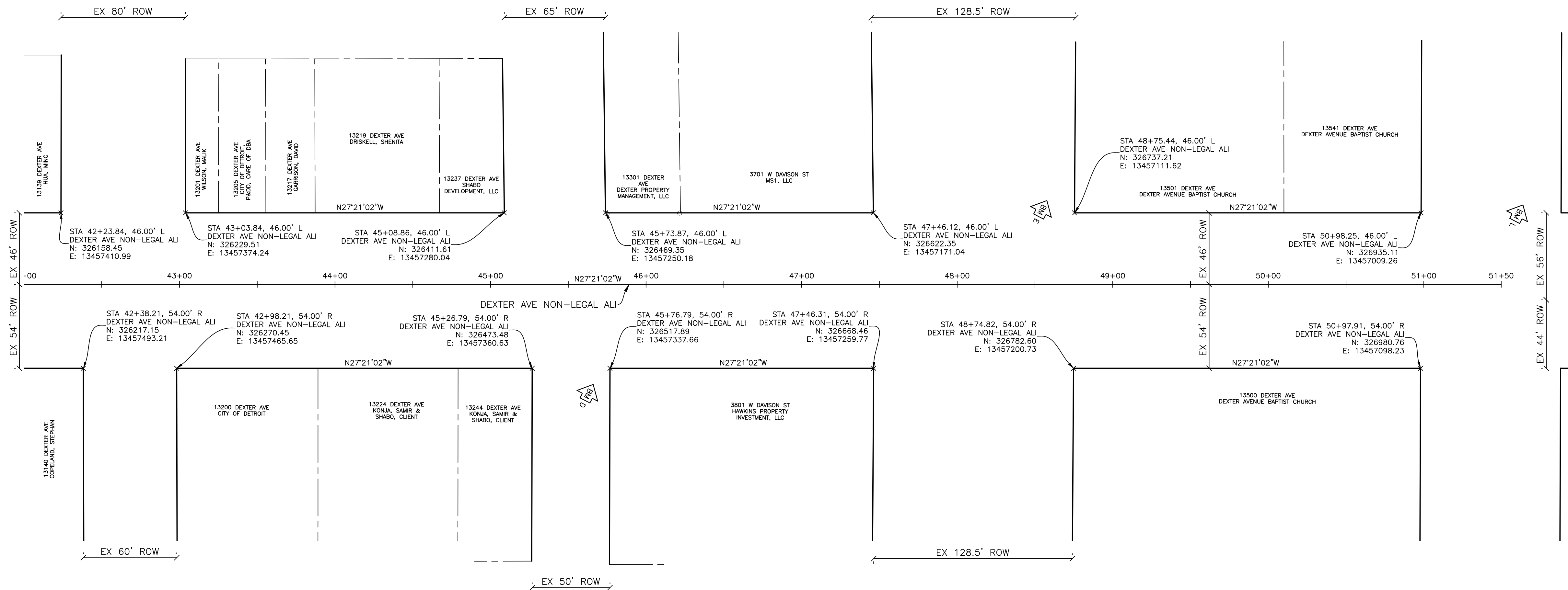
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

PROJECT NUMBER PW-XXX2  
DEXTER AVENUE STREETScape  
POE (DEXTER AVE NON-LEGAL ALI)  
STA: 47+61.30



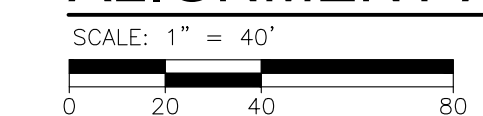
BENCHMARKS

HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88  
  
BENCHMARK D ELEV. 644.78  
ARROW ON HYDRANT AT NORTHWEST CORNER  
OF DEXTER AND WAVERLY  
  
BENCHMARK E ELEV. 644.86  
MAG SPIKE ON EAST SIDE OF UTILITY POLE AT  
THE SOUTHWEST CORNER OF DEXTER AND DAVISON  
  
BENCHMARK L ELEV. 645.41  
CHISELED X ON NORTHEASTERLY UPPER FLANGE  
BOLT ON HYDRANT AT NORTHWEST CORNER OF  
DEXTER AND CLEMENTS

SURVEYED BY:

SURVEY PROVIDED BY: FISHBEEK ON SEPTEMBER 12,  
2019 AND REFLECT CONDITIONS AT THAT TIME

ALIGNMENT AND SURVEY PLAN



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_ALIGN\_005.DWG LAYOUT: ALIGN005 DATE: 7/17/2023 TIME: 8:21:20 PM USER: ACFRANZON

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DE  
Manager KKS

Hard copy is intended to be  
24"x36" when plotted. Scale(s)  
indicated and graphic quality may  
not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
14  
ALIGN005

© Copyright 2023  
All Rights Reserved

TYLER STREET

WAVERLY STREET

W DAVISON STREET (M-8)

CLEMENTS ST

HUMPHREY STREET

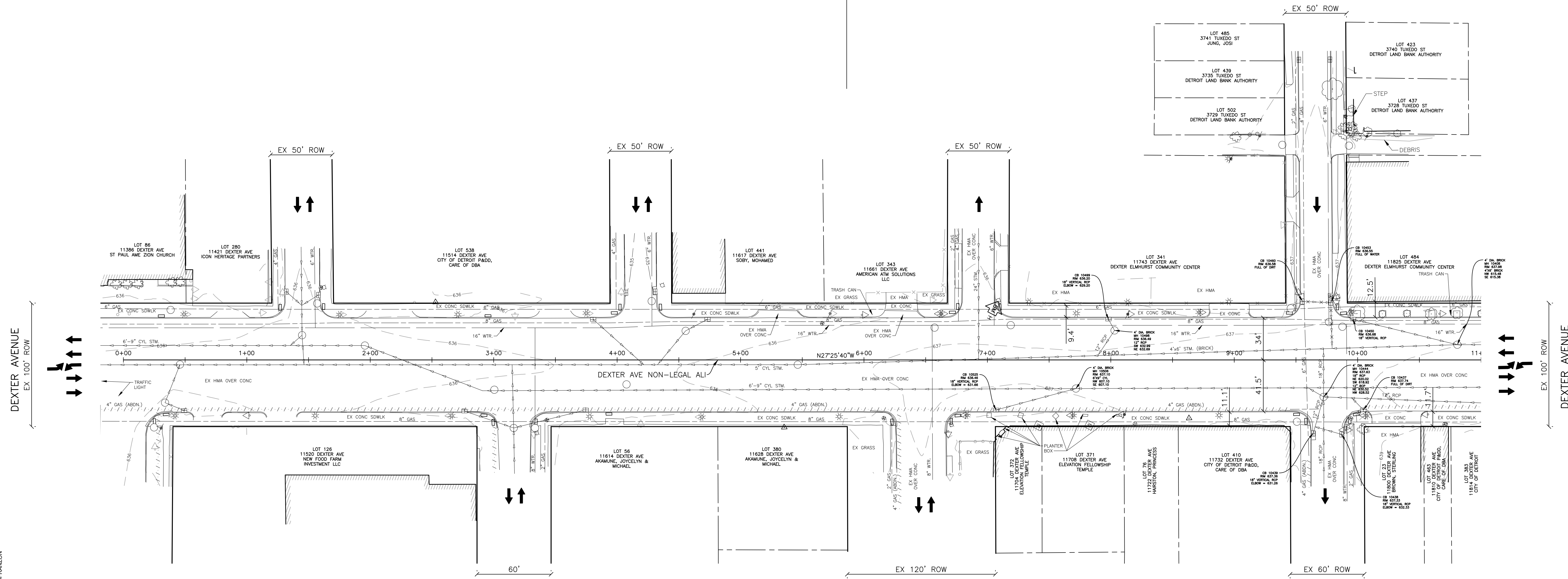
BURLINGAME STREET

WEBB STREET

TUXEDO STREET



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00



DEXTER AVENUE  
EX 100' ROW

DEXTER AVENUE  
EX 100' ROW

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_EXIST\_001.DWG LAYOUT: EXIST001 DATE: 7/17/2023 TIME: 6:24:52 PM USER: AOF\RAMAZON

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be  
24"x36" when plotted. Scale(s)  
indicated and graphic quality may  
not be accurate for any other size.

PROJECT NO.

191190

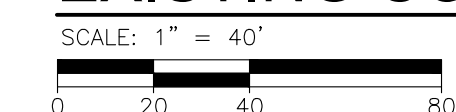
SHEET NO.

15

EXIST001

© Copyright 2023  
All Rights Reserved

**EXISTING CONDITIONS**



HUMPHREY STREET

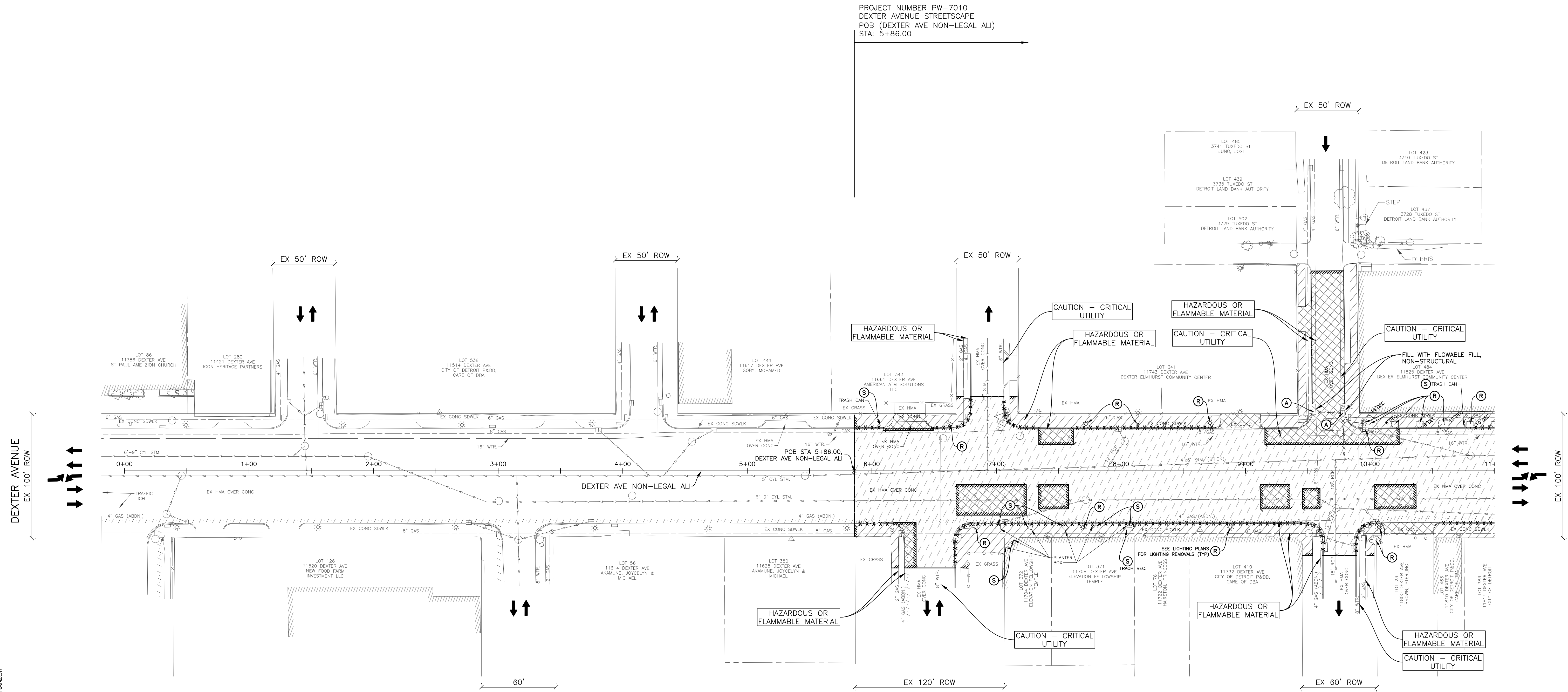
BURLINGAME STREET

WEBB STREET

TUXEDO STREET



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00



**NOTES**

- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN ON LANDSCAPE PLANS.
- FOR EXISTING LIGHT POLES REMOVALS REFER TO LIGHTING PLANS.
- DWSD CASTINGS REMOVED TO BE SALVAGED AND RETURNED TO DWSD.

**QUANTITIES THIS SHEET**

JN PW-7010		CAT 0001	
5	Ea	Tree, Rem, 6 inch to 18 inch	
2	Ea	Dr Structure, Abandon	
1	Ea	Dr Structure, Rem	
789	Ft	Curb, Rem, Modified	
1217	Syd	Sidewalk, Rem, Modified	
7	Ea	Planter, Rem and Salvage	
3	Ea	Trash Receptacle, Ex, Salv and Relocate	
3	Cyd	Flowable Fill, Non-Structural	
273	Cyd	Excavation, Earth, Modified	
4646	Syd	Cold Milling HMA Surface, Modified	

**REMOVAL PLAN**

SCALE: 1" = 40'  
0 20 40 80

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

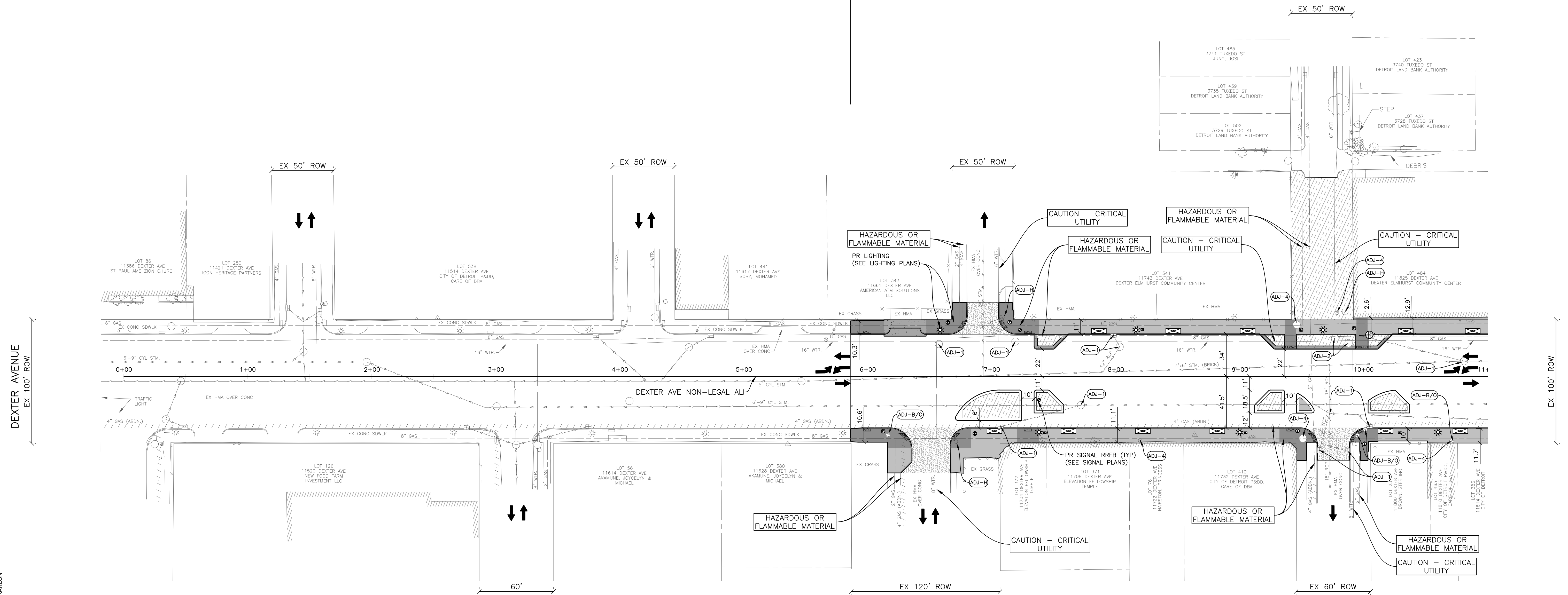
16

REM001





PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETSCAPE  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00



NOTES

- FOR LANDSCAPE AND SITE FURNISHING DETAILS SEE LANDSCAPE PLANS.
- FOR LIGHTING DETAILS SEE LIGHTING PLANS.
- CONCRETE PAVEMENT TO BE BROOM FINISH EXCEPT WHERE NOTED OTHERWISE. REFER TO LANDSCAPE PLANS FOR CONCRETE FINISH TYPE.

DRIVEWAY TABLE							Aggregate Base, 4 inch	_Driveway, Nonreinf, Conc, 8 inch, Modified	_Concrete Curb, Detail CD, Modified	_Sidewalk, Conc, 8 inch, Modified	
ALIGNMENT	STATION	BACK OFFSET FROM CL	PROP DRIVEWAY SLOPE %	PROP DRIVEWAY WIDTH FT	RADIUS ENTERING FT	RADIUS EXITING FT					
Dexter Ave	06+29.93 LT	39.0	--	24.0	5.0	5.0	Syd	Syd	Ft	Sft	
TOTAL							53	21	16	273	

QUANTITIES THIS SHEET

JN PW-7010	CAT	QTY	UNIT	DESCRIPTION
0001	135	Cyd	Embankment, CIP	
	1507	Syd	Aggregate Base, 4 inch	
	190	Syd	Aggregate Base, 6 inch	
	11	Ea	_Dr Structure Cover, Adj, Case 1, Modified	
	2	Ea	_Dr Structure Cover, Adj, Case 2, Modified	
	20	Ton	Hand Patching	
	370	Ton	HMA, 5EMH	
	30	Ton	_HMA Approach, Modified	
	150	Syd	Conc Base Case, Nonreinf, 10 inch	
	1080	Ft	_Concrete Curb, Detail CD, Modified	
	436	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified	
	202	Ft	_Curb Ramp Opening, Conc, Modified	
	103	Ft	_Detectable Warning Surface Tile, Modified	
	3431	Sft	_Sidewalk Ramp, ADA, Modified	
	8027	Sft	_Sidewalk, Conc, 4 inch, Modified	
	239	Sft	_Sidewalk, Conc, 12 inch, Modified	
	5	Ea	_Water Shutoff, Adj, Case 2, Modified	
	3	Ea	_Hydrant, Adj	
	18	Ea	_Conc. Divider	

CONSTRUCTION PLAN

SCALE: 1" = 40'



SMITHGROUP

500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
17  
CON001

HUMPHREY STREET

BURLINGAME STREET

WEBB STREET

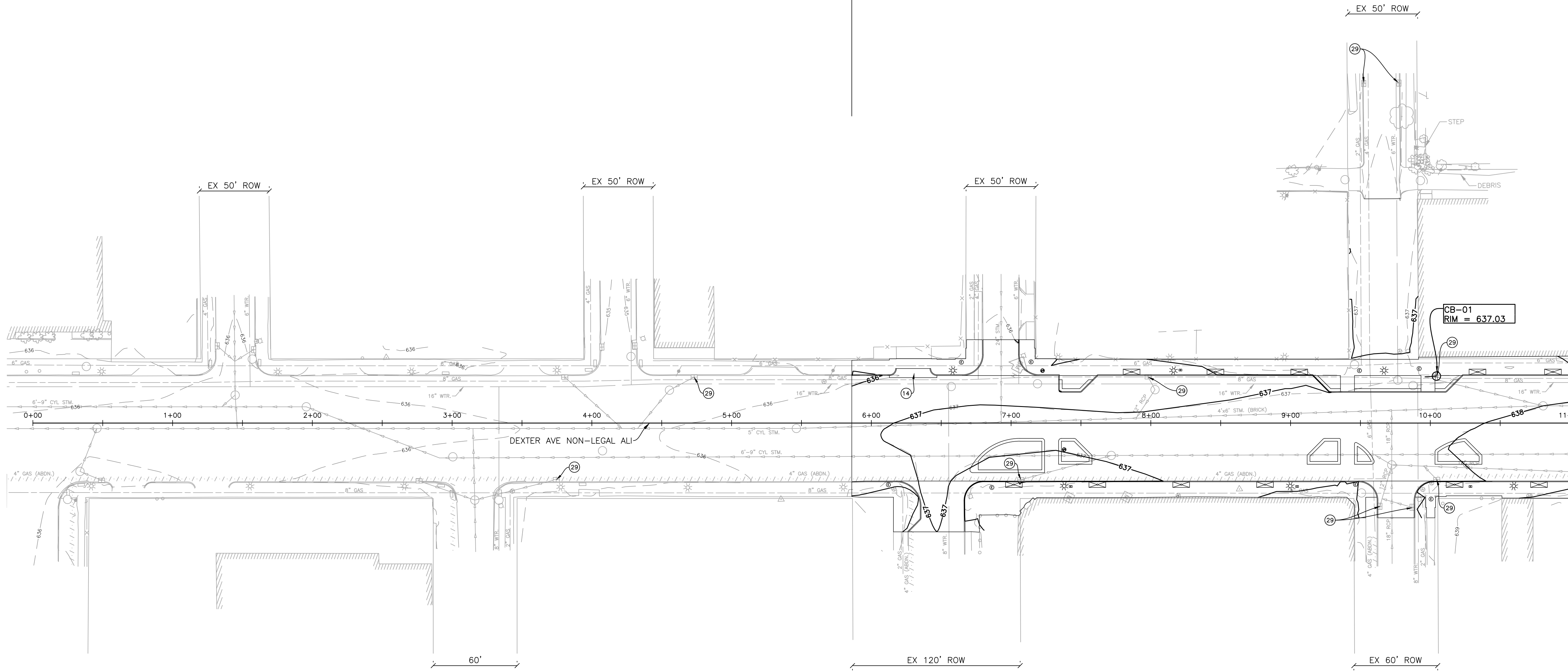
TUXEDO STREET



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00

DEXTER AVENUE  
EX 100' ROW

DEXTER AVENUE  
EX 100' ROW



DRAINAGE STRUCTURE AND SEWER TABLE					Overflow Inlet, Planter
STRUCT NO.	ALIGNMENT	STATION	OFFSET		Ea
			FT	FT	
CB-01	DEXTER AVE	10+04.38	33.58 LT	637.03	1
TOTAL					1

QUANTITIES THIS SHEET		
JN PW-7010		
CAT 0001		
1	Ea	Erosion Control, Gravel Access Approach
8	Ea	Erosion Control, Inlet Protection, Sediment Trap
20	Ft	_Dr Structure Lead, Cleaning, Modified
2	Ea	_Dr Structure Cleaning, Modified

**DRAINAGE AND SESC PLAN**

SCALE: 1" = 40'  
0 20 40 80

**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
18  
DRN001

© Copyright 2023  
All Rights Reserved

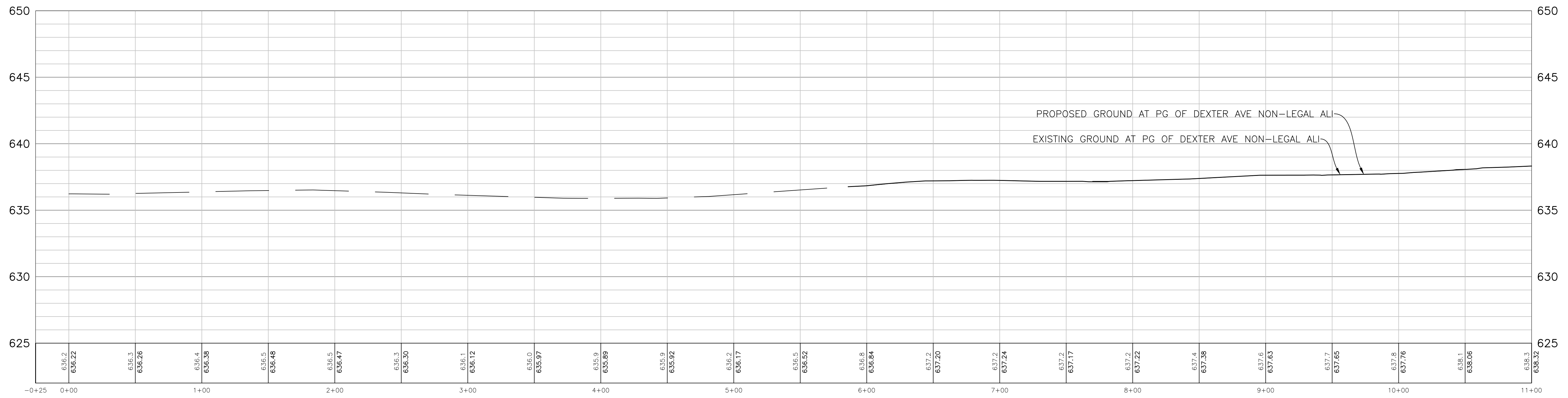
LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_PROF\_001.DWG LAYOUT: PROF001 DATE: 7/17/2023 TIME: 02:53 PM USER: ADFRANZON



**PROFILE**  
 SCALE: 1" = 40'  
 VERT SCALE: 1" = 4'



**SMITHGROUP**  
 500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.993.3600  
 www.smithgroup.com



**City of Detroit**  
 Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DPE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
19  
PROF001

ELMHURST STREET

DUANE STREET

MONTEREY STREET

RICHTON STREET



SMITHGROUP

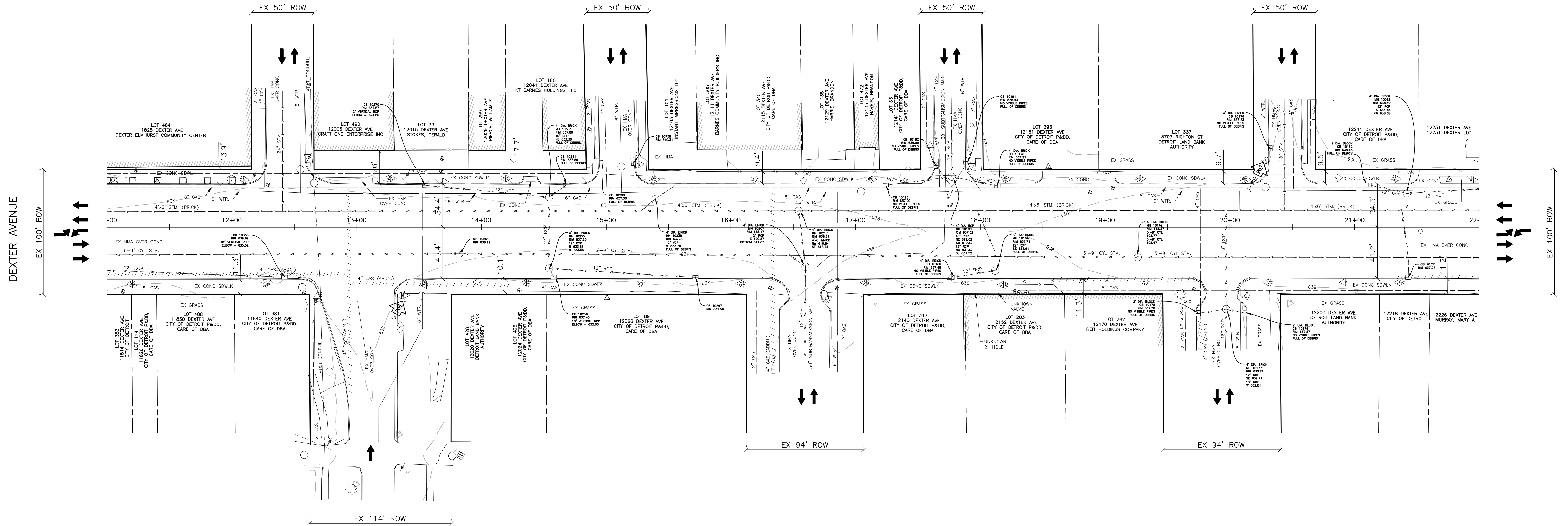
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



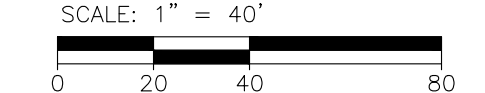
City of Detroit

Dexter Avenue Streetscape

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_EXIST\_002.DWG LAYOUT: EXIST002 DATE: 7/17/2023 TIME: 2:28:52 PM USER: AOF\RAMAZON



EXISTING CONDITIONS



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DFE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
20  
EXIST002

© Copyright 2023  
All Rights Reserved

ELMHURST STREET

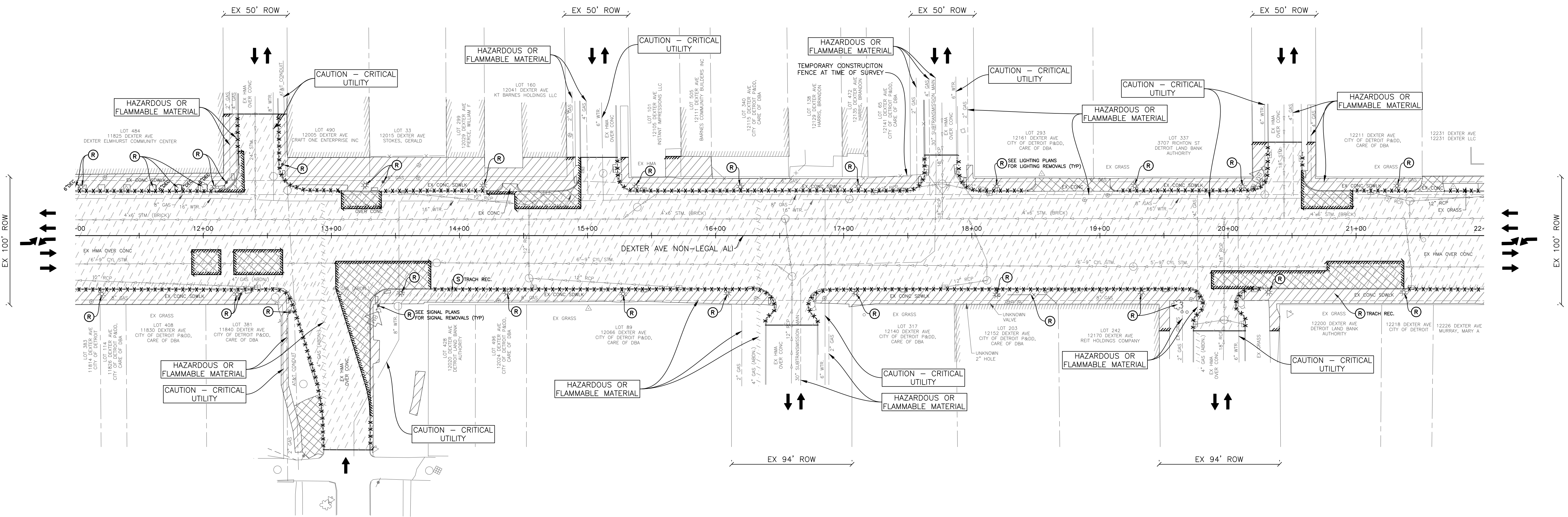
MONTEREY STREET

RICHTON STREET



DEXTER AVENUE

DEXTER AVENUE



NOTES

- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN ON LANDSCAPE PLANS.
- FOR EXISTING LIGHT POLES REMOVALS REFER TO LIGHTING PLANS.
- DWS2 CASTINGS REMOVED TO BE SALVAGED AND RETURNED TO DWS2.

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
4	Ea	Tree, Rem, 6 inch to 18 inch
2004	Ft	Curb, Rem, Modified
1166	Syd	Pavt, Rem, Modified
2908	Syd	Sidewalk, Rem, Modified
2	Ea	Trash Receptacle, Ex, Salv and Relocate
663	Cyd	Excavation, Earth, Modified
10656	Syd	Cold Milling HMA Surface, Modified

REMOVAL PLAN

SCALE: 1" = 40'  
0 20 40 80

REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

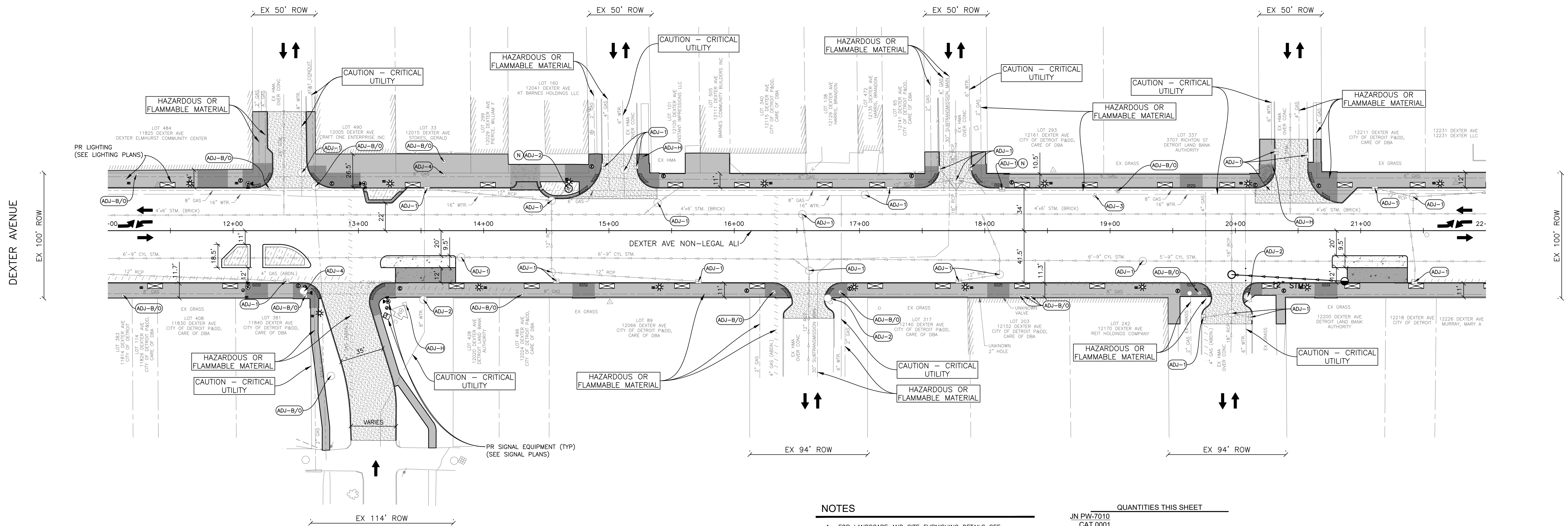
SHEET NO.

21

REM002



DRIVEWAY TABLE							Aggregate Base, 4 inch	Driveway, Nonreinf. Conc., 8 inch, Modified	Concrete Curb, Detail CD, Modified	Sidewalk, Conc. 8 inch, Modified
ALIGNMENT	STATION	BACK OFFSET FROM CL	PROP DRIVEWAY SLOPE	PROP DRIVEWAY WIDTH	RADIUS ENTERING	RADIUS EXITING	Syd	Syd	Ft	Sft
Dexter Ave	14+34.40 LT	39.0	--	16.0	15.0	5.0	50	14	15	315
TOTAL							50	14	15	315



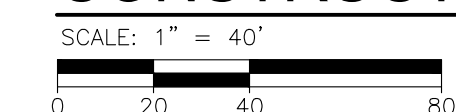
NOTES

- FOR LANDSCAPE AND SITE FURNISHING DETAILS SEE LANDSCAPE PLANS.
- FOR LIGHTING DETAILS SEE LIGHTING PLANS.
- CONCRETE PAVEMENT TO BE BROOM FINISH EXCEPT WERE NOTE OTHERWISE, REFER TO LANDSCAPE PLANS FOR CONCRETE FINISH TYPE.

QUANTITIES THIS SHEET

JN PW-7010		CAT 0001	
48	Cyd	Embankment, CIP	
3729	Syd	Aggregate Base, 4 inch	
456	Syd	Aggregate Base, 6 inch	
32	Ea	_Dr Structure Cover, Adj, Case 1, Modified	
3	Ea	_Dr Structure Cover, Adj, Case 2, Modified	
1	Ea	_Dr Structure Cover, Type ADA, Modified	
1	Ea	_Dr Structure Cover, Type BH, Modified	
40	Ton	Hand Patching	
823	Ton	HMA, SEMH	
134	Ton	_HMA Approach, Modified	
390	Syd	Conc Base Case, Nonreinf., 10 inch	
130	Syd	_Conc Pavt, Misc, Nonreinf. 6 inch, Modified	
2568	Ft	_Concrete Curb, Detail CD, Modified	
178	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified	
374	Ft	_Curb Ramp Opening, Conc, Modified	
187	Ft	_Detectable Warning Surface Tile, Modified	
1130	Sft	_Integral Conc Island	
5272	Sft	_Sidewalk Ramp, ADA, Modified	
2223	Sft	_Sidewalk, Conc, 4 inch, Modified	
339	Sft	_Sidewalk, Conc, 6 inch, Modified	
147	Sft	_Sidewalk, Conc, 12 inch, Modified	
1	Ea	_Monument Preservation, Vertical, Modified	
1	Ea	_Water Shutoff, Adj, Case 1, Modified	
2	Ea	_Water Shutoff, Adj, Case 2, Modified	
3	Ea	_Hydrant, Adj	
63	Ea	_Conc, Divider	

CONSTRUCTION PLAN



REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DFE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

22

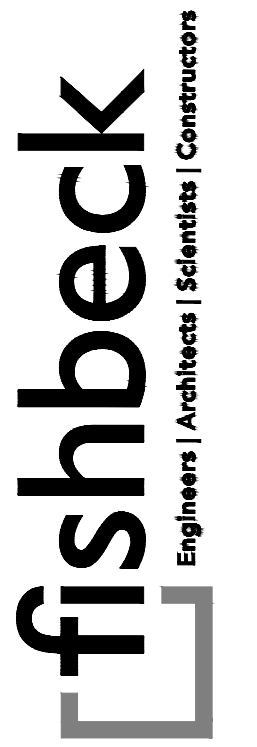
CON002

ELMHURST STREET

DUANE STREET

MONTEREY STREET

RIGHTON STREET



SMITHGROUP

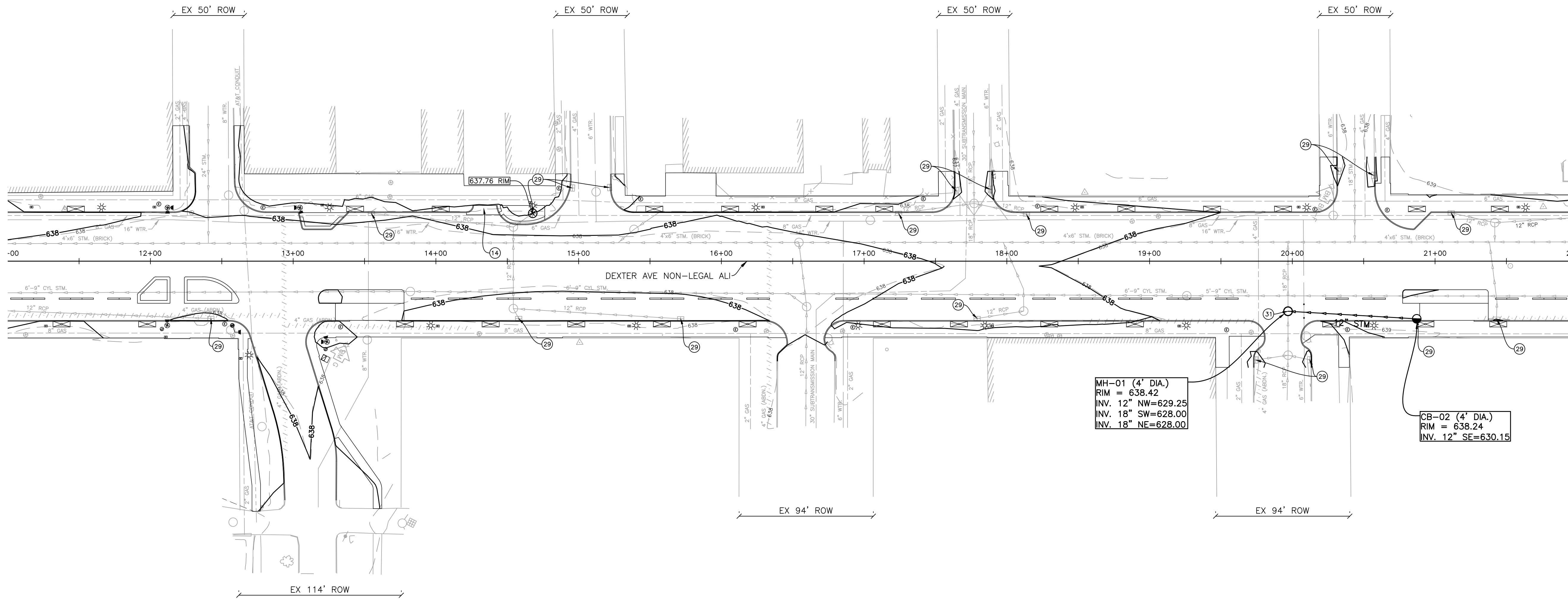
500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com



City of Detroit Dexter Avenue Streetscape

DEXTER AVENUE

DEXTER AVENUE



DRAINAGE STRUCTURE AND SEWER TABLE					Sewer, CI IV, 12 inch, Tr Det B	Sewer Tap, 18 inch	Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	Dr Structure Cover, Type CB, Modified	Dr Structure Cover, Type MH, Modified	Dr Structure, 48 inch dia, Modified	
STRUCT NO.	ALIGNMENT	STATION	OFFSET		RIM ELEV	Ft	Ea	Ft	Ea	Ea	
			FT	FT							
CB-02	DEXTER AVE	20+87.17	40.40	RT	638.24	90	--	2	1	--	1
MH-01	DEXTER AVE	19+96.99	35.07	RT	638.42	--	1	3	--	1	1
TOTAL						90	1	5	1	1	2

QUANTITIES THIS SHEET		
JN PW-7010		
CAT 0001		
1	Ea	Erosion Control, Gravel Access Approach
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
19	Ea	Erosion Control, Inlet Protection, Sediment Trap
90	Ft	Video Taping Sewer and Culv Pipe
20	Ft	_Dr Structure Lead, Cleaning, Modified
2	Ea	_Dr Structure Cleaning, Modified

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
23  
DRN002

© Copyright 2023 All Rights Reserved

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DRN\_002.DWG LAYOUT: DRN002 DATE: 7/20/2023 TIME: 2:14:48 PM USER: ACFRANZON

ELMHURST STREET

MONTEREY STREET

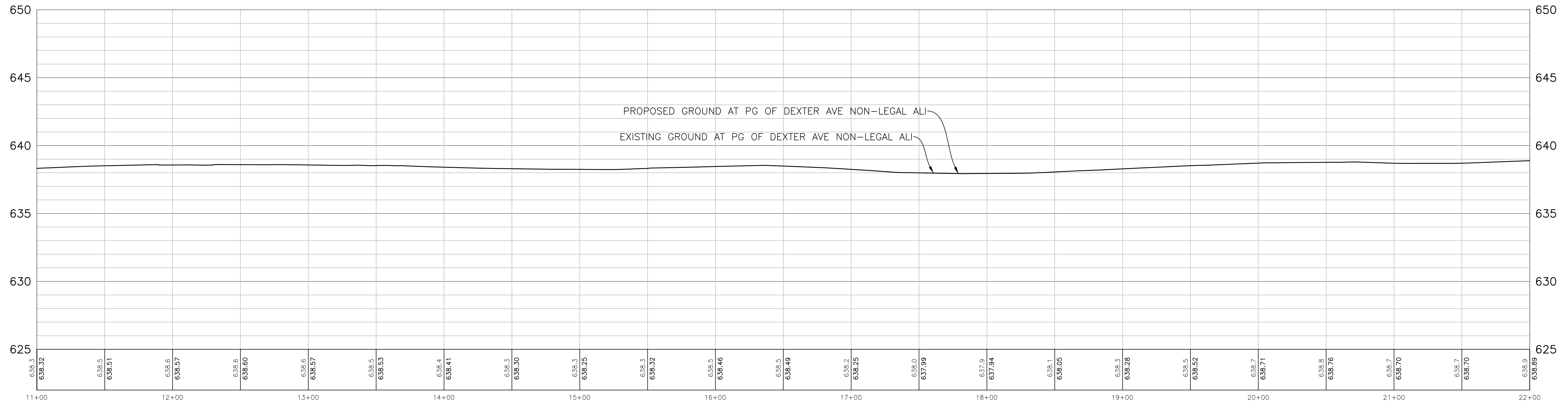
RIGHTON STREET



DRAINAGE AND SESC PLAN

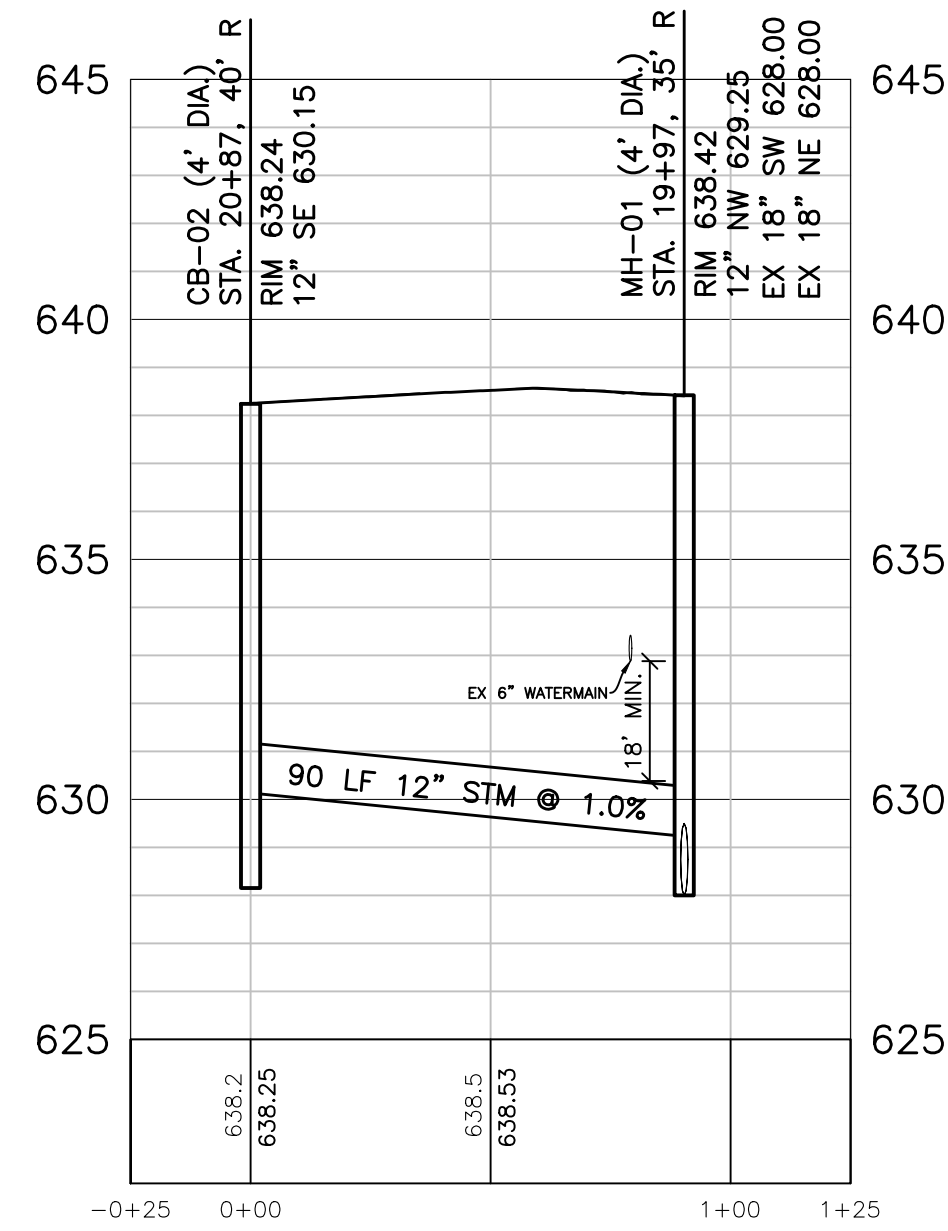
SCALE: 1" = 40'





**ROAD PROFILE**

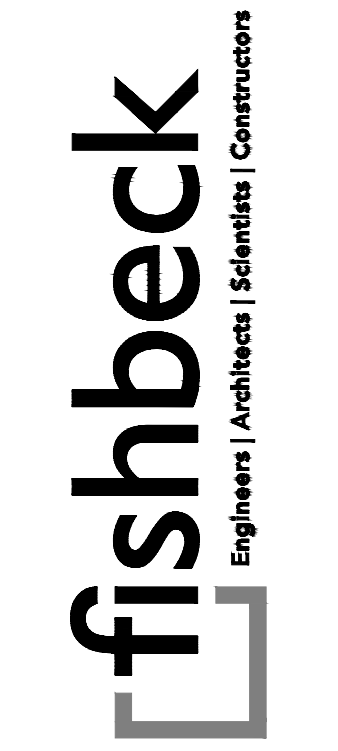
SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'



**CB-02 TO MH-01 STORM PROFILE**

SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PROF\_02.DWG LAYOUT: PROF002 DATE: 7/17/2023 TIME: 5:05:11 PM USER: ADFRANZON



**SMITHGROUP**

500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.993.3600  
 www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**24**  
**PROF002**



CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

DEXTER AVENUE

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

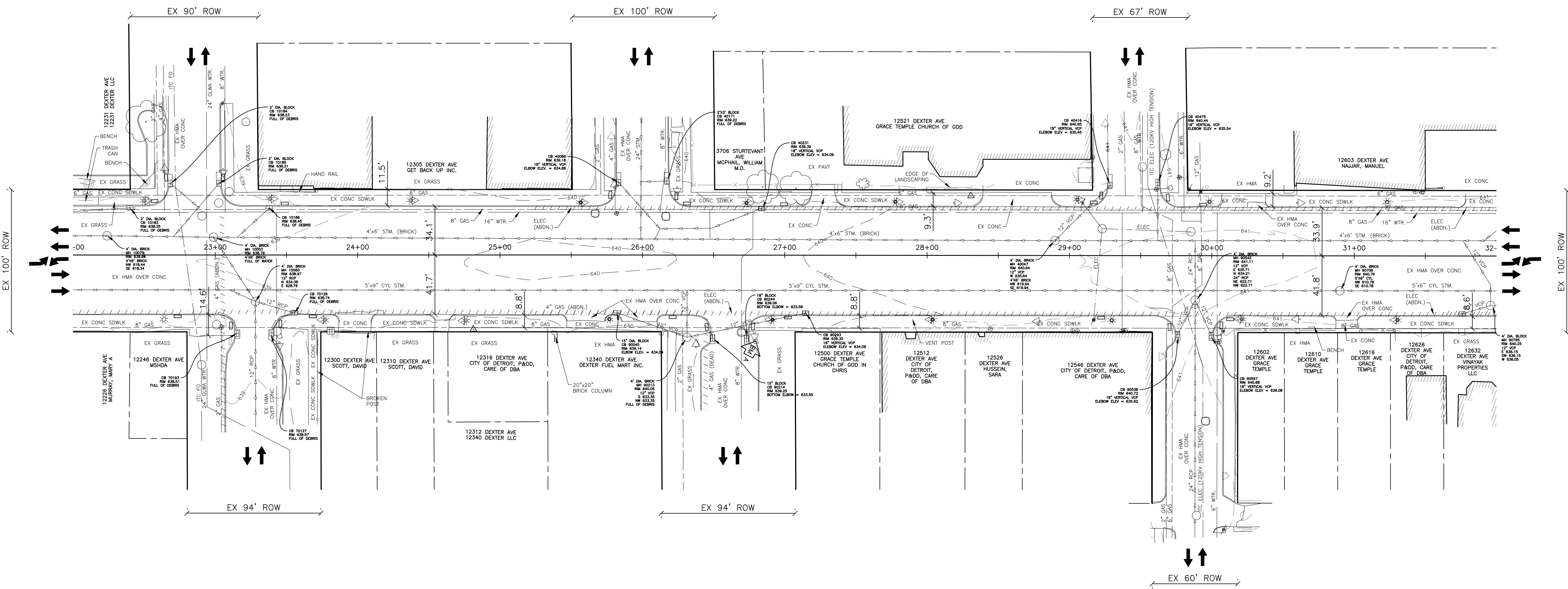
191190

SHEET NO.

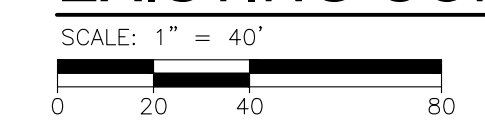
25

EXIST003

© Copyright 2023  
All Rights Reserved



EXISTING CONDITIONS



CORTLAND STREET

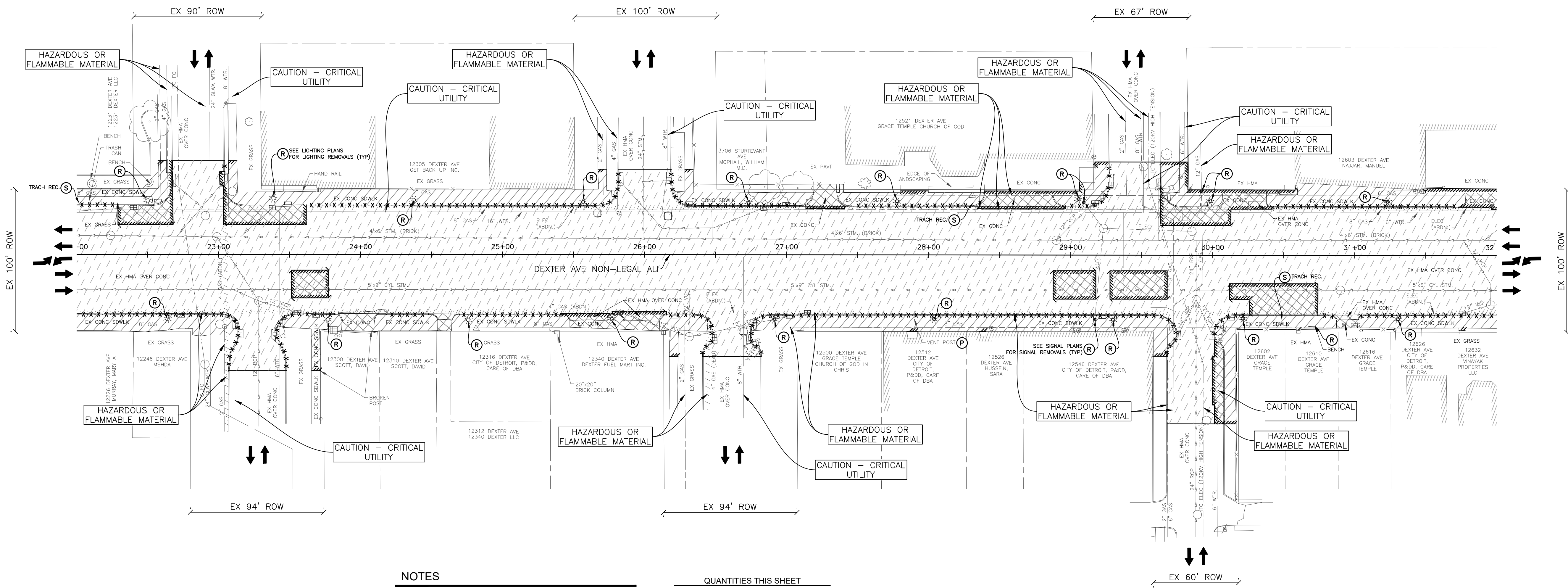
STURTEVANT AVENUE

FULLERTON AVENUE



DEXTER AVENUE

DEXTER AVENUE



**NOTES**

- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN ON LANDSCAPE PLANS.
- FOR EXISTING LIGHT POLES REMOVALS REFER TO LIGHTING PLANS.
- DWSD CASTINGS REMOVED TO BE SALVAGED AND RETURNED TO DWSD.

**QUANTITIES THIS SHEET**

QTY	UNIT	DESCRIPTION
156	Ft	Fence, Rem, Modified
1565	Ft	Curb, Rem, Modified
1005	Syd	Pavt, Rem, Modified
2014	Syd	Sidewalk, Rem, Modified
1	Ea	Bench, Rem
3	Ea	Trash Receptacle, Ex, Salv and Relocate
500	Cyd	Excavation, Earth, Modified
9327	Syd	Cold Milling HMA Surface, Modified

**REMOVAL PLAN**

SCALE: 1" = 40'



**REVISIONS**

DATE	DESCRIPTION	SCALE
07/21/2023	100% CD	
06/09/2023	90% CD	
04/28/2023	60% CD	
03/10/2023	30% CD	

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

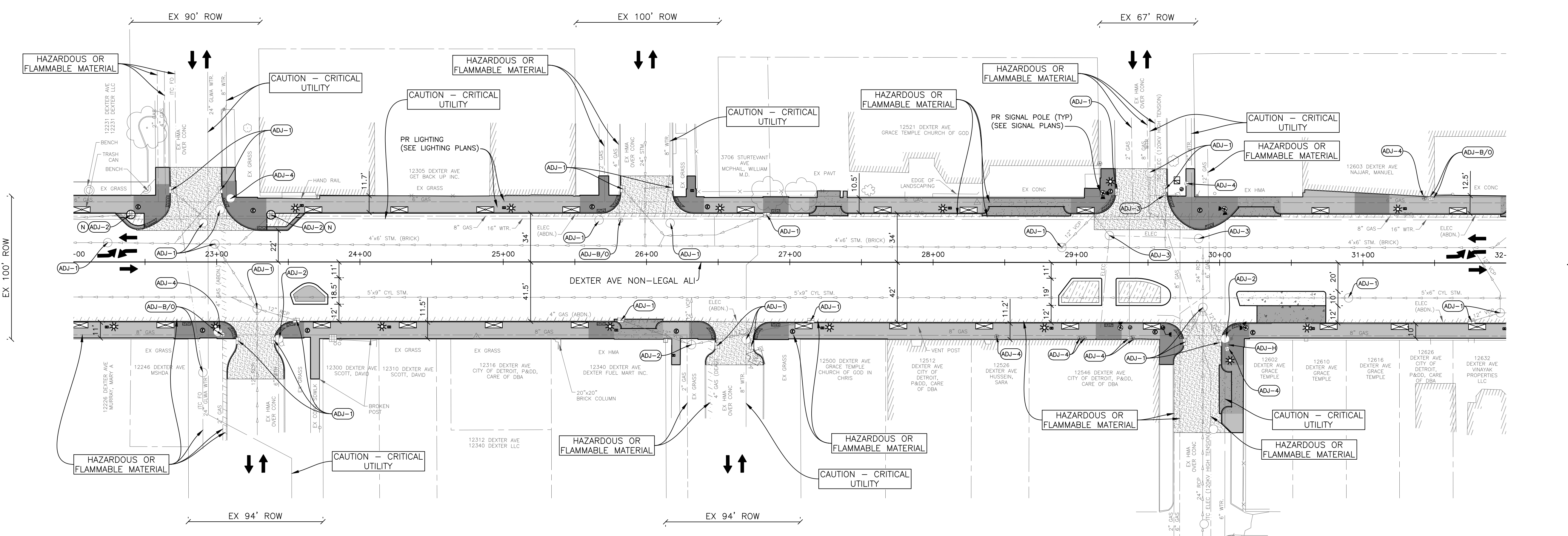
PROJECT NO.  
**191190**

SHEET NO.  
**26**  
**REM003**

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_REM\_003.DWG LAYOUT: REM003 DATE: 7/20/2023 TIME: 10:48:16 AM USER: ADFRANZON



ALIGNMENT	STATION	DRIVEWAY TABLE					Aggregate Base, 4 inch	Driveway, Nonreinf, Conc, 8 inch, Modified	Concrete Curb, Detail CD, Modified	Sidewalk, Conc, 8 inch, Modified
		BACK OFFSET FROM CL	PROP DRIVEWAY SLOPE	PROP DRIVEWAY WIDTH	RADIUS ENTERING	RADIUS EXITING				
		Ft	%	Ft	Ft	Syd	Syd	Ft	Sft	
Dexter Ave	25+94.47 RT	46.5	--	24.0	5.0	54	21	16	286	
Dexter Ave	27+27.01 LT	39.0	--	17.0	5.0	48	16	16	271	
Dexter Ave	28+65.10 LT	39.0	--	52.0	5.0	88	41	16	408	
Dexter Ave	30+08.41 RT	88.4	--	24.0	5.0	74	36	20	331	
Dexter Ave	30+25.41 LT	39.0	--	24.0	5.0	46	21	17	224	
TOTAL						310	135	85	1520	



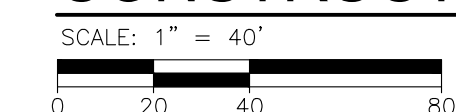
NOTES

- FOR LANDSCAPE AND SITE FURNISHING DETAILS SEE LANDSCAPE PLANS.
- FOR LIGHTING DETAILS SEE LIGHTING PLANS.
- CONCRETE PAVEMENT TO BE BROOM FINISH EXCEPT WERE NOTE OTHERWISE. REFER TO LANDSCAPE PLANS FOR CONCRETE FINISH TYPE.

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
2511	Syd	Aggregate Base, 4 inch
212	Syd	Aggregate Base, 6 inch
30	Ea	_Dr Structure Cover, Adj, Case 1, Modified
5	Ea	_Dr Structure Cover, Adj, Case 2, Modified
1	Ea	_Dr Structure Cover, Type ADA, Modified
2	Ea	_Dr Structure Cover, Type BH, Modified
20	Ton	Hand Patching
742	Ton	HMA, 5EMH
90	Ton	_HMA Approach, Modified
169	Syd	Conc Base Cse, Nonreinf, 10 inch
65	Syd	_Conc Pavn, Misc, Nonreinf, 6 inch, Modified
1992	Ft	_Concrete Curb, Detail CD, Modified
269	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified
304	Ft	_Curb Ramp Opening, Conc, Modified
167	Ft	_Detectable Warning Surface Tile, Modified
613	Sft	_Integral Conc Island
5616	Sft	_Sidewalk Ramp, ADA, Modified
14147	Sft	_Sidewalk, Conc, 4 inch, Modified
84	Sft	_Sidewalk, Conc, 12 inch, Modified
2	Ea	_Water Shutoff, Adj, Case 1, Modified
10	Ea	_Water Shutoff, Adj, Case 2, Modified
1	Ea	_Hydrant, Adj
53	Ea	_Conc, Divider

CONSTRUCTION PLAN



REVISIONS

DATE	DESCRIPTION	BY	APP
07/21/2023	100% CD		
06/09/2023	90% CD		
04/28/2023	60% CD		
03/10/2023	30% CD		

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

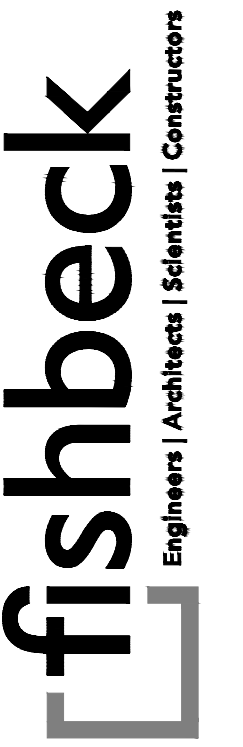
PROJECT NO.  
191190

SHEET NO.  
27  
CON003

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



SMITHGROUP

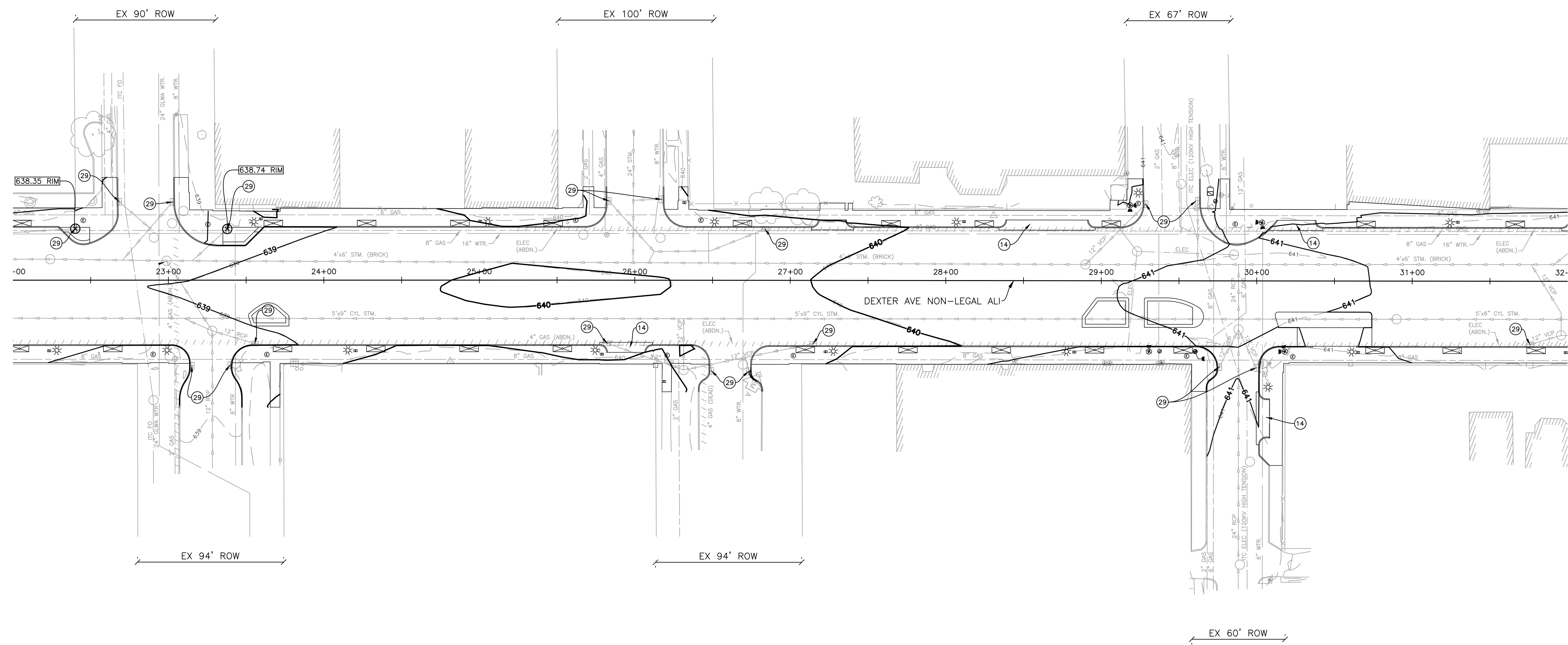
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit  
Dexter Avenue Streetscape

DEXTER AVENUE

DEXTER AVENUE



QUANTITIES THIS SHEET

JN PW-7010		
CAT 0001		
4	Ea	Erosion Control, Gravel Access Approach
19	Ea	Erosion Control, Inlet Protection, Sediment Trap
20	Ft	_Dr Structure Lead, Cleaning, Modified
2	Ea	_Dr Structure Cleaning, Modified



DRAINAGE AND SESC PLAN

SCALE: 1" = 40'



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DPE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

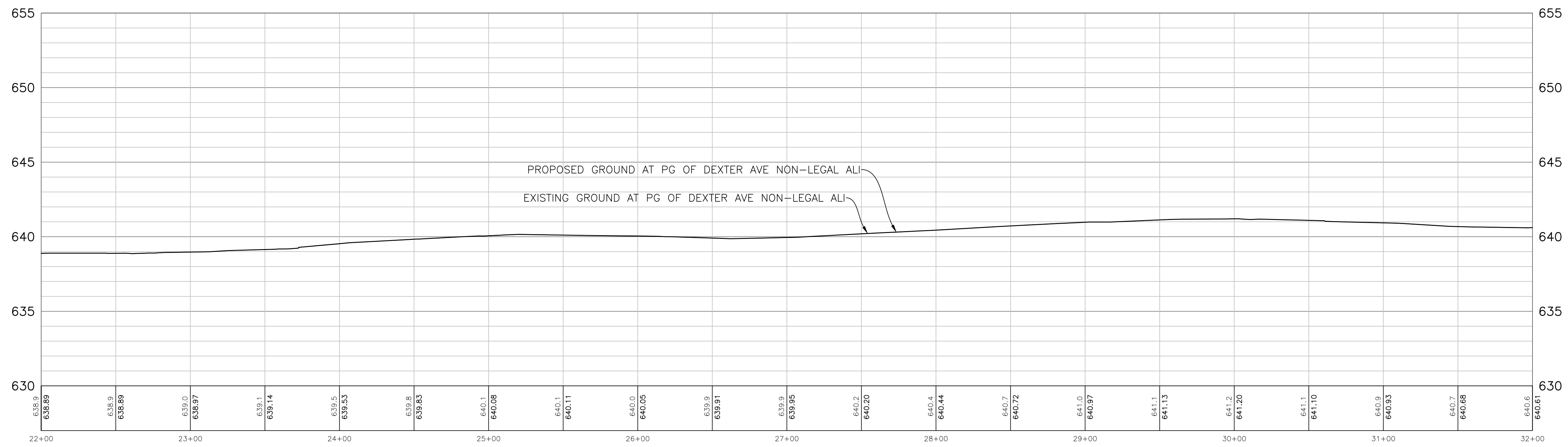
SHEET NO.  
28  
DRN003

© Copyright 2023  
All Rights Reserved

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



**PROFILE**  
 SCALE: 1" = 40'  
 VERT SCALE: 1" = 4'



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

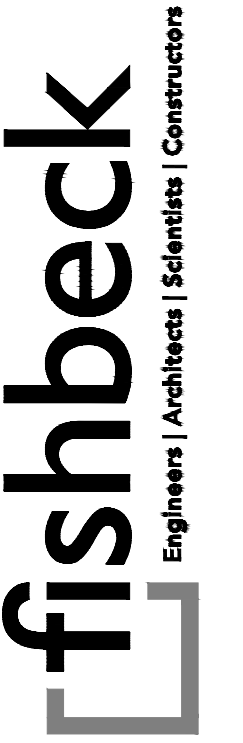
PROJECT NO.  
 191190

SHEET NO.  
 29  
 PROF003

LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



SMITHGROUP

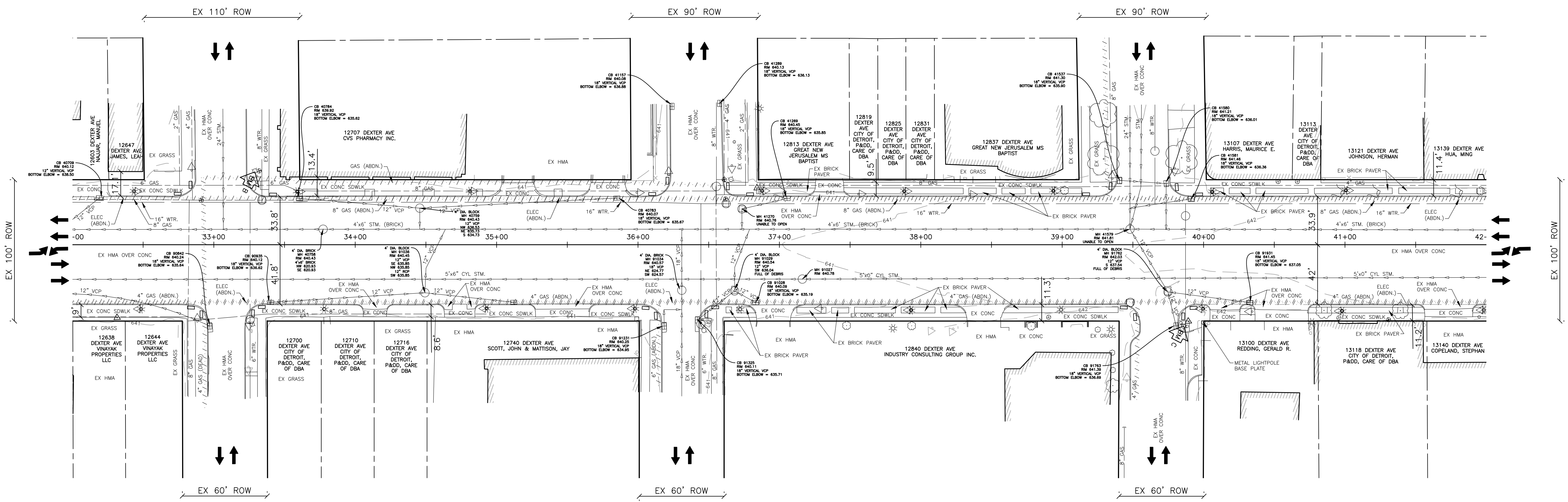
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

DEXTER AVENUE



LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_EXIST\_004.DWG LAYOUT: EXIST004 DATE: 7/17/2023 TIME: 6:36:02 PM USER: ACFRANZON

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

30

EXIST004

© Copyright 2023  
All Rights Reserved

EXISTING CONDITIONS

SCALE: 1" = 40'  
0 20 40 80



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DPE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

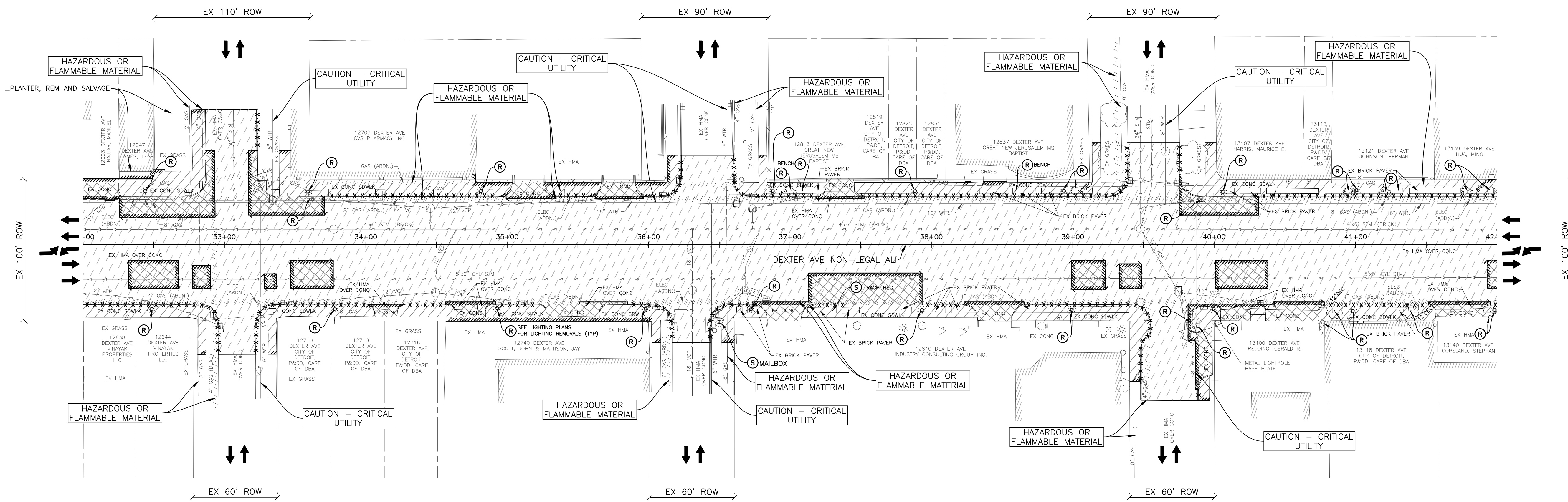
PROJECT NO.

191190

SHEET NO.

31

REM004



NOTES

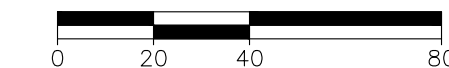
- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN ON LANDSCAPE PLANS.
- FOR EXISTING LIGHT POLES REMOVALS REFER TO LIGHTING PLANS.
- DWSD CASTINGS REMOVED TO BE SALVAGED AND RETURNED TO DWSD.

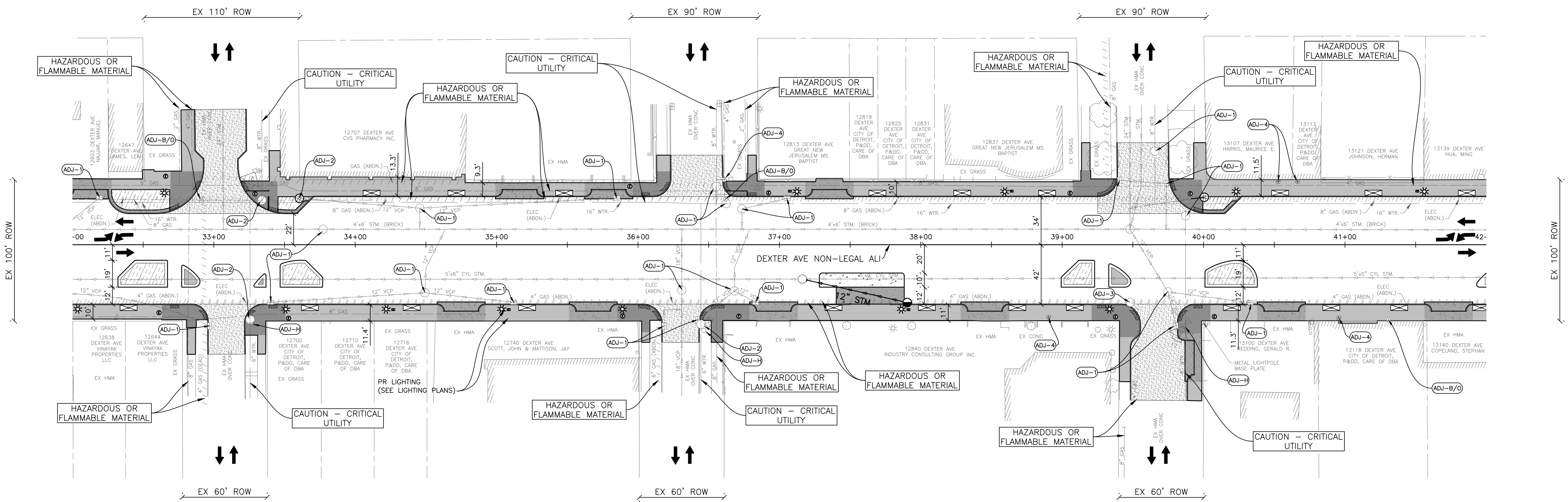
QUANTITIES THIS SHEET

JN PW-7010			
CAT 0001			
4	Ea	Tree, Rem, 6 inch to 18 inch	
4	Ea	Stump, Rem, 6 inch to 18 inch	
1	Ea	Dr Structure, Rem	
1386	Ft	_Curb, Rem, Modified	
1457	Syd	_Pavt, Rem, Modified	
1630	Syd	_Sidewalk, Rem, Modified	
2	Ea	_Bench, Rem	
1	Ea	_Mailbox, Rem, Salv and Install	
3	Ea	_Bollard, Rem	
5	Ea	_Planter, Rem and Salvage	
1	Ea	_Trash Receptacle, Ex, Salv and Relocate	
426	Cyd	_Excavation, Earth, Modified	
9449	Syd	_Cold Milling HMA Surface, Modified	

REMOVAL PLAN

SCALE: 1" = 40'





NOTES

- FOR LANDSCAPE AND SITE FURNISHING DETAILS SEE LANDSCAPE PLANS.
- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN THE LANDSCAPE PLAN.
- FOR LIGHTING DETAILS SEE LIGHTING PLANS.
- CONCRETE PAVEMENT TO BE BROOM FINISH EXCEPT WERE NOTE OTHERWISE. REFER TO LANDSCAPE PLANS FOR CONCRETE FINISH TYPE.

DRIVEWAY TABLE							Aggregate Base, 4 inch	Driveway, Nonreinf, Conc, 8 inch, Modified	Concrete Curb, Detail CD, Modified	Sidewalk, Conc, 8 inch, Modified
ALIGNMENT	STATION	BACK OFFSET FROM CL	PROP DRIVEWAY SLOPE	PROP DRIVEWAY WIDTH	RADIUS ENTERING	RADIUS EXITING	Syd	Syd	Ft	Sft
		Ft	%	Ft	Ft	Ft				
Dexter Ave	32+13.09 LT	39.0	--	24.0	15.0	5.0	48	19	15	245
Dexter Ave	34+74.93 RT	47.0	--	24.0	5.0	5.0	52	21	16	269
Dexter Ave	35+15.25 LT	39.0	--	24.0	5.0	5.0	44	21	16	196
Dexter Ave	35+68.32 RT	47.0	--	24.0	5.0	5.0	52	21	16	269
Dexter Ave	35+79.30 LT	39.0	--	24.0	5.0	5.0	44	21	16	196
Dexter Ave	36+95.96 RT	47.0	--	24.0	5.0	5.0	52	21	16	267
Dexter Ave	37+35.38 LT	39.0	--	24.0	5.0	5.0	52	21	16	266
Dexter Ave	38+45.31 RT	47.0	--	24.0	5.0	5.0	52	21	16	265
Dexter Ave	39+93.33 RT	79.8	--	24.0	5.0	5.0	48	19	23	244
Dexter Ave	40+55.00 RT	47.0	--	24.0	5.0	5.0	52	21	16	264
Dexter Ave	41+73.32 RT	47.0	--	24.0	5.0	5.0	52	21	16	263
TOTAL							548	227	182	2746

QUANTITIES THIS SHEET

JN PW-7010		CAT 0001	
2	Ea	Bollard, Rem	
2519	Syd	Aggregate Base, 4 inch	
377	Syd	Aggregate Base, 6 inch	
25	Ea	Dr Structure Cover, Adj, Case 1, Modified	
3	Ea	Dr Structure Cover, Adj, Case 2, Modified	
4	Ea	Dr Structure Cover, Type ADA, Modified	
1	Ea	Dr Structure Cover, Type BH, Modified	
30	Ton	Hand Patching	
733	Ton	HMA, 5EMH	
108	Ton	HMA Approach, Modified	
317	Syd	Conc Base Cse, Nonreinf, 10 inch	
65	Syd	Conc Pavt, Misc, Nonreinf, 6 inch, Modified	
1927	Ft	Concrete Curb, Detail CD, Modified	
500	Ft	Integral Curb and Sidewalk, 2 Foot, Modified	
288	Ft	Curb Ramp Opening, Conc, Modified	
170	Ft	Detectable Warning Surface Tile, Modified	
599	Sft	Integral Conc Island	
4757	Sft	Sidewalk Ramp, ADA, Modified	
13766	Sft	Sidewalk, Conc, 4 inch, Modified	
201	Sft	Sidewalk, Conc, 12 inch, Modified	
1	Ea	Water Shutoff, Adj, Case 1, Modified	
5	Ea	Water Shutoff, Adj, Case 2, Modified	
3	Ea	Hydrant, Adj	
26	Ea	Conc Divider	

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

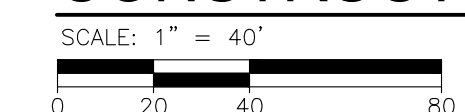
191190

SHEET NO.

32

CON004

CONSTRUCTION PLAN





LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



SMITHGROUP

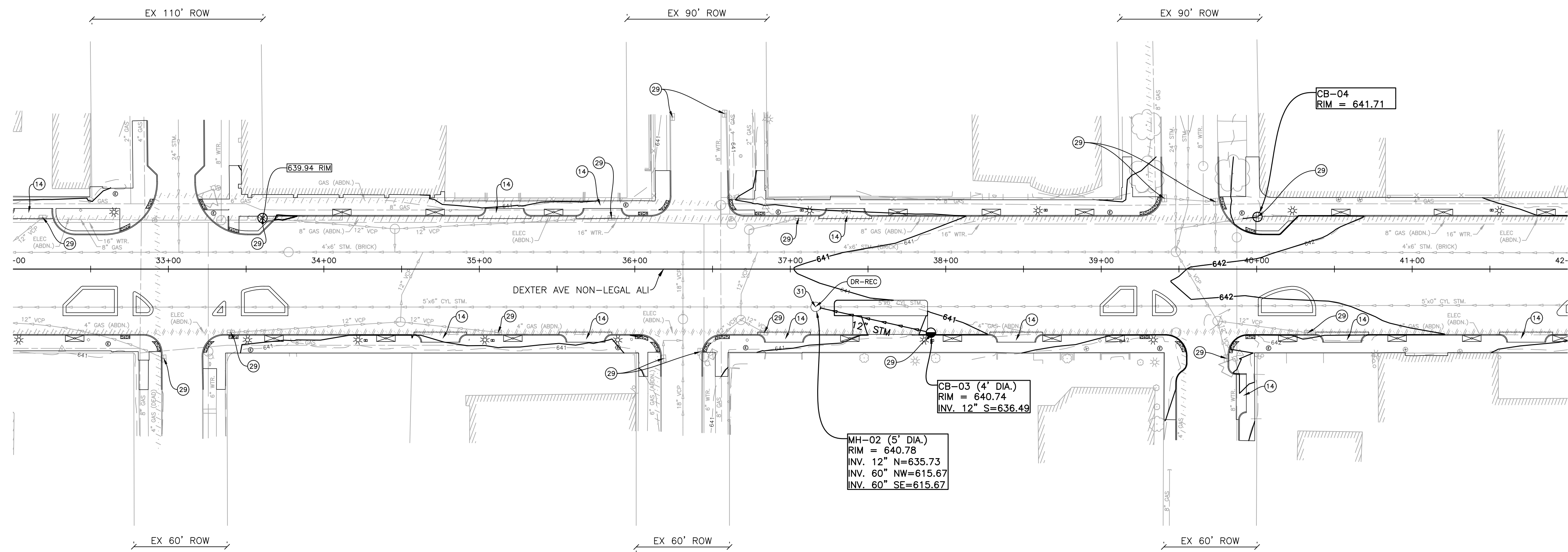
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

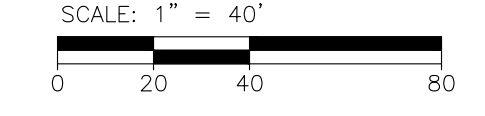
DEXTER AVENUE



DRAINAGE STRUCTURE AND SEWER TABLE					Sewer, CI IV, 12 inch, Tr Det B	Dr Structure, Reconstruct, Modified	_Dr Structure Cover, Type CB, Modified	_Dr Structure Cover, Type MH, Modified	_Dr Structure, 48 inch dia, Modified	_Overflow Inlet, Planter
STRUCT NO.	ALIGNMENT	STATION	OFFSET	RIM ELEV						
			FT	FT	Ft	Ft	Ea	Ea	Ea	Ea
CB-03	DEXTER AVE	37+90.42	40.90 RT	640.74	76	--	1	--	1	--
CB-04	DEXTER AVE	40+00.48	33.58 LT	641.71	--	--	--	--	--	1
MH-02	DEXTER AVE	37+16.22	24.32 RT	640.78	--	6	--	1	--	--
TOTAL					76	6	1	1	1	1

- JN PW-7010  
CAT 0001
- 11 Ea Erosion Control, Gravel Access Approach
  - 1 Ea Erosion Control, Inlet Protection, Fabric Drop
  - 18 Ea Erosion Control, Inlet Protection, Sediment Trap
  - 76 Ft Video Taping Sewer and Culv Pipe
  - 20 Ft \_Dr Structure Lead, Cleaning, Modified
  - 2 Ea \_Dr Structure Cleaning, Modified

DRAINAGE AND SESC PLAN



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KKS

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

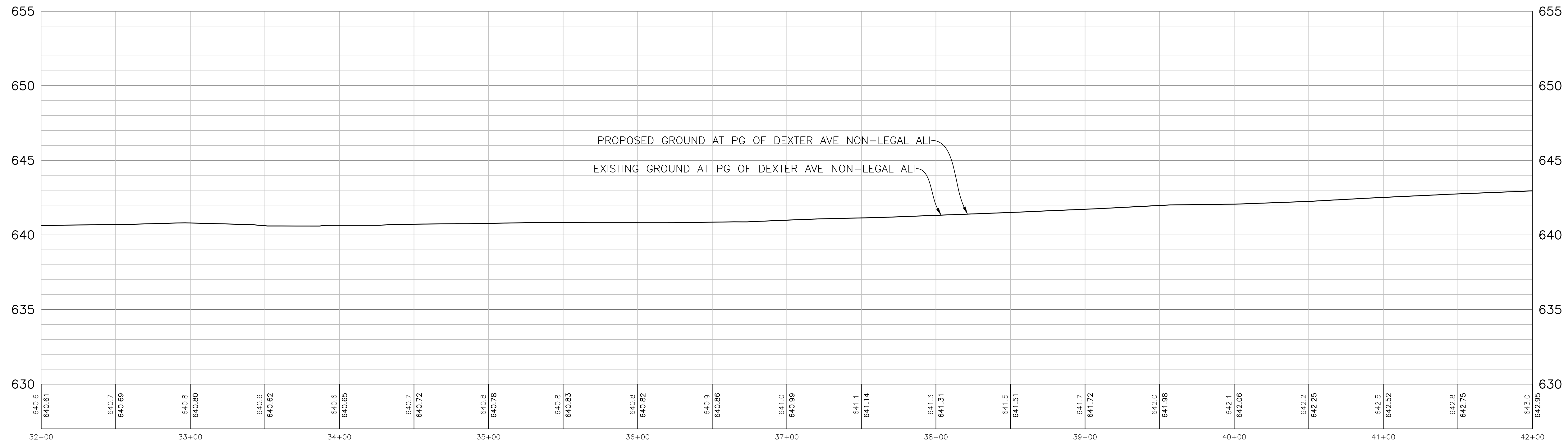
PROJECT NO.  
191190  
SHEET NO.  
33  
DRN004

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DRN\_004.DWG LAYOUT: DRN004 DATE: 7/20/2023 TIME: 2:20:35 PM USER: ACFRANZON

LESLIE STREET

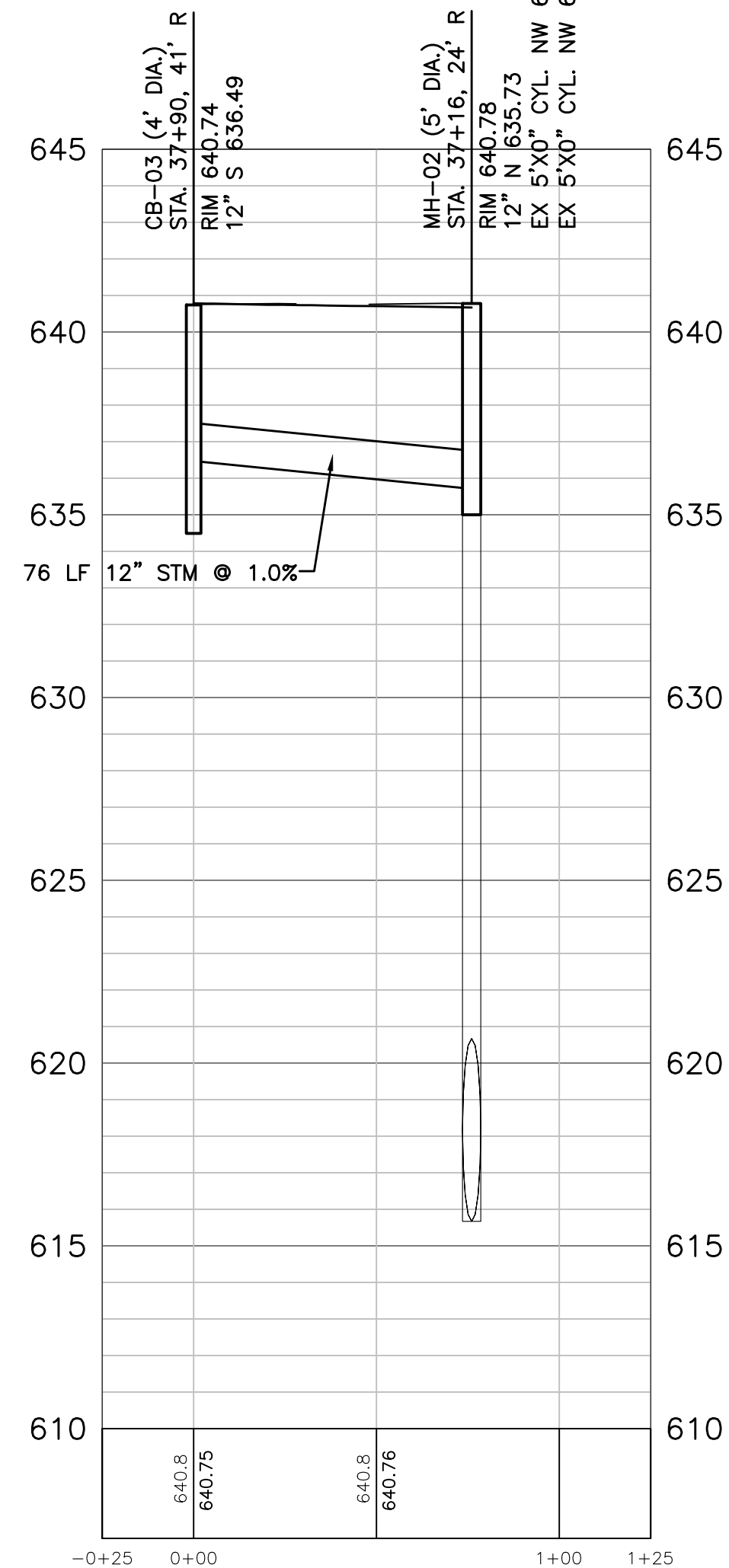
GLENDALE AVENUE

BUENA VISTA STREET



**ROAD PROFILE**

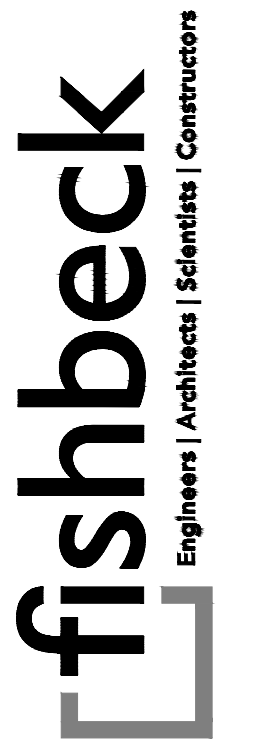
SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'



**CB-03 TO MH-02  
 STORM PROFILE**

SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PROF\_04.DWG LAYOUT: PROF004 DATE: 7/17/2023 TIME: 6:37:12 PM USER: ADFRANZON



**SMITHGROUP**

500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.993.3600  
 www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
 191190

SHEET NO.  
 34  
 PROF004

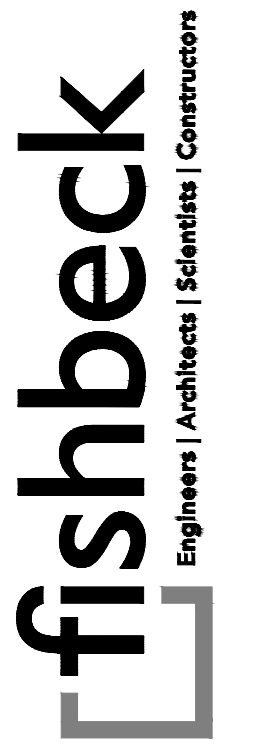
© Copyright 2023  
 All Rights Reserved

TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS ST



SMITHGROUP

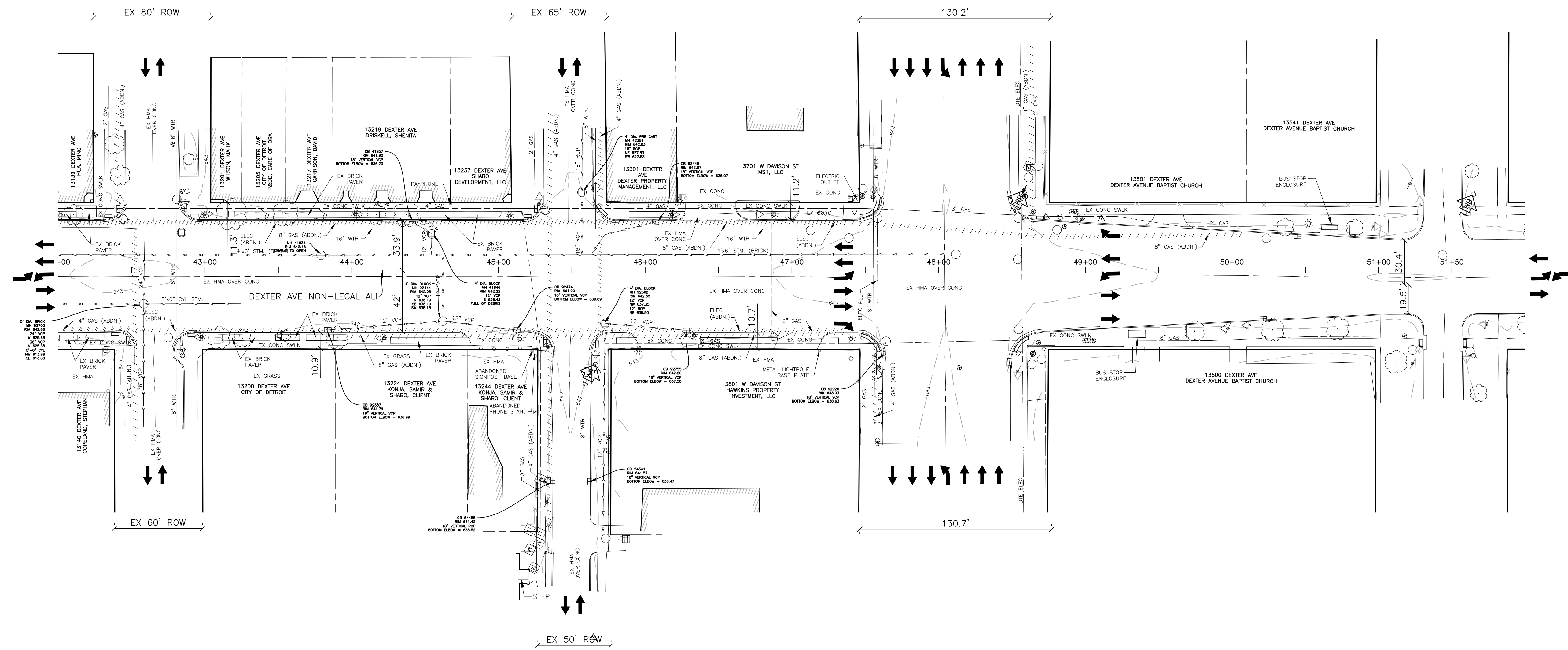
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



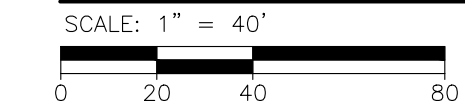
City of Detroit

Dexter Avenue Streetscape

PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POE (DEXTER AVE NON-LEGAL ALI)  
STA: 47+61.30



EXISTING CONDITIONS



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

35

EXIST005

© Copyright 2023  
All Rights Reserved

TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS ST

TYLER STREET

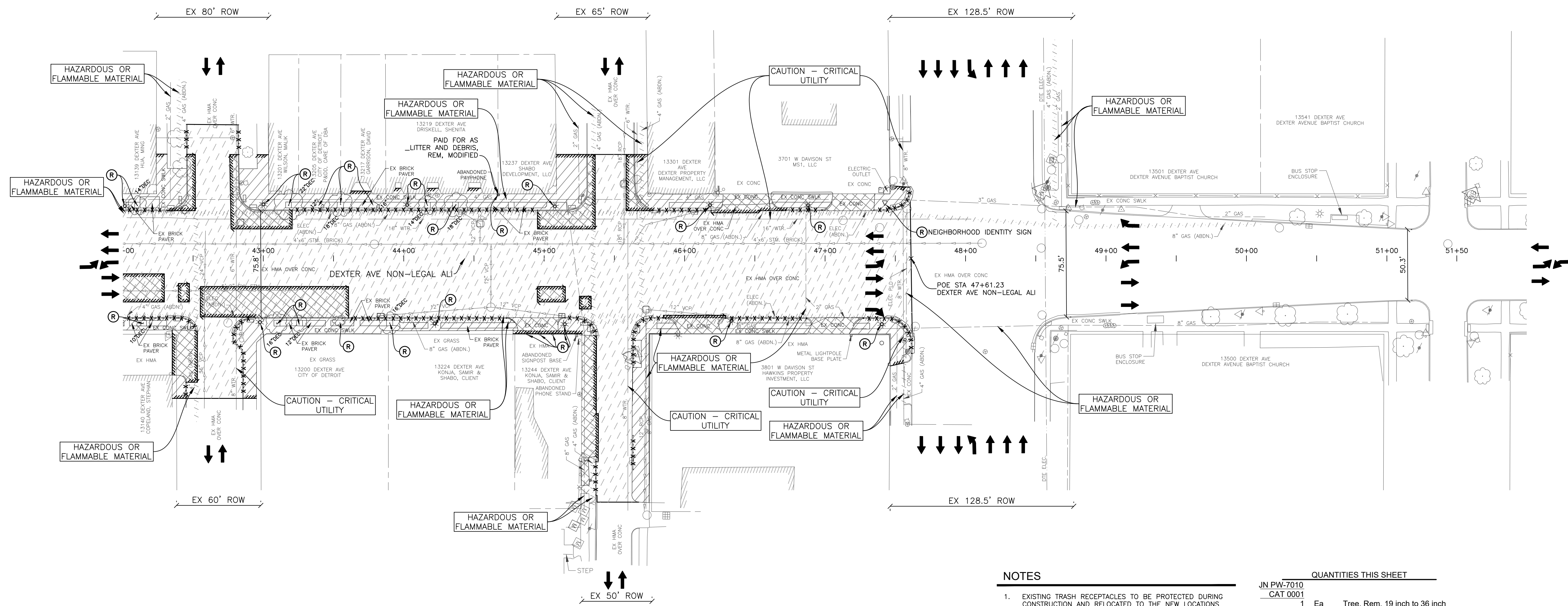
WAVERLY STREET

W DAVISON STREET

CLEMENTS ST



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETSCAPE  
POE (DEXTER AVE NON-LEGAL ALI)  
STA: 47+61.30



NOTES

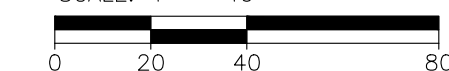
- EXISTING TRASH RECEPTACLES TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED TO THE NEW LOCATIONS SHOWN ON LANDSCAPE PLANS.
- FOR EXISTING LIGHT POLES REMOVALS REFER TO LIGHTING PLANS.
- DWSO CASTINGS REMOVED TO BE SALVAGED AND RETURNED TO DWSO.

QUANTITIES THIS SHEET

JN PW-7010		CAT 0001	
1	Ea	Tree, Rem, 19 inch to 36 inch	
8	Ea	Tree, Rem, 6 inch to 18 inch	
2	Ea	Stump, Rem, 6 inch to 18 inch	
799	Ft	_Curb, Rem, Modified	
1050	Syd	_Pavt, Rem, Modified	
1353	Syd	_Sidewalk, Rem, Modified	
4	Ea	_Bollard, Rem	
1	Ea	_Neighborhood Identity Sign, Rem	
318	Cyd	_Excavation, Earth, Modified	
5718	Syd	_Cold Milling HMA Surface, Modified	

REMOVAL PLAN

SCALE: 1" = 40'



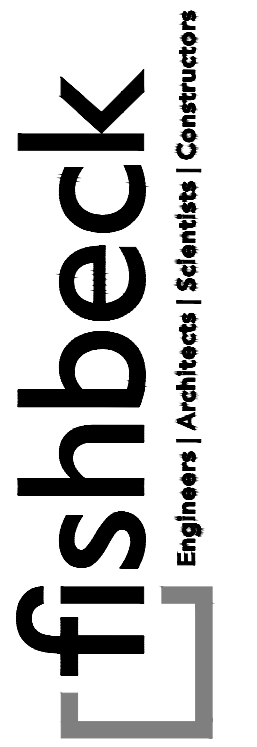
PLOT INFO: Z:\2018\191190\CADD\CD\191190\_REM\_005.DWG LAYOUT: REM005 DATE: 7/20/2023 TIME: 10:44:17 AM USER: ADFRANZON

TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS ST



SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

36

REM005

© Copyright 2023  
All Rights Reserved

TYLER STREET

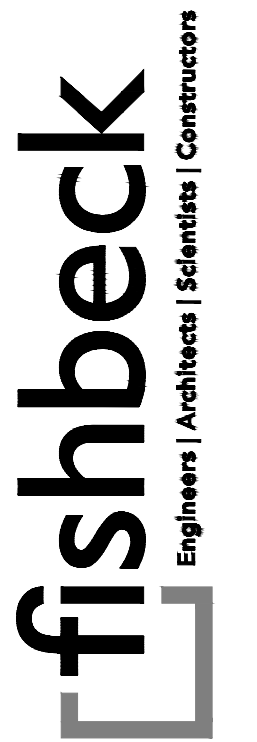
WAVERLY STREET

W DAVISON STREET

CLEMENTS ST



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETScape  
POE (DEXTER AVE NON-LEGAL ALI)  
STA: 47+61.30



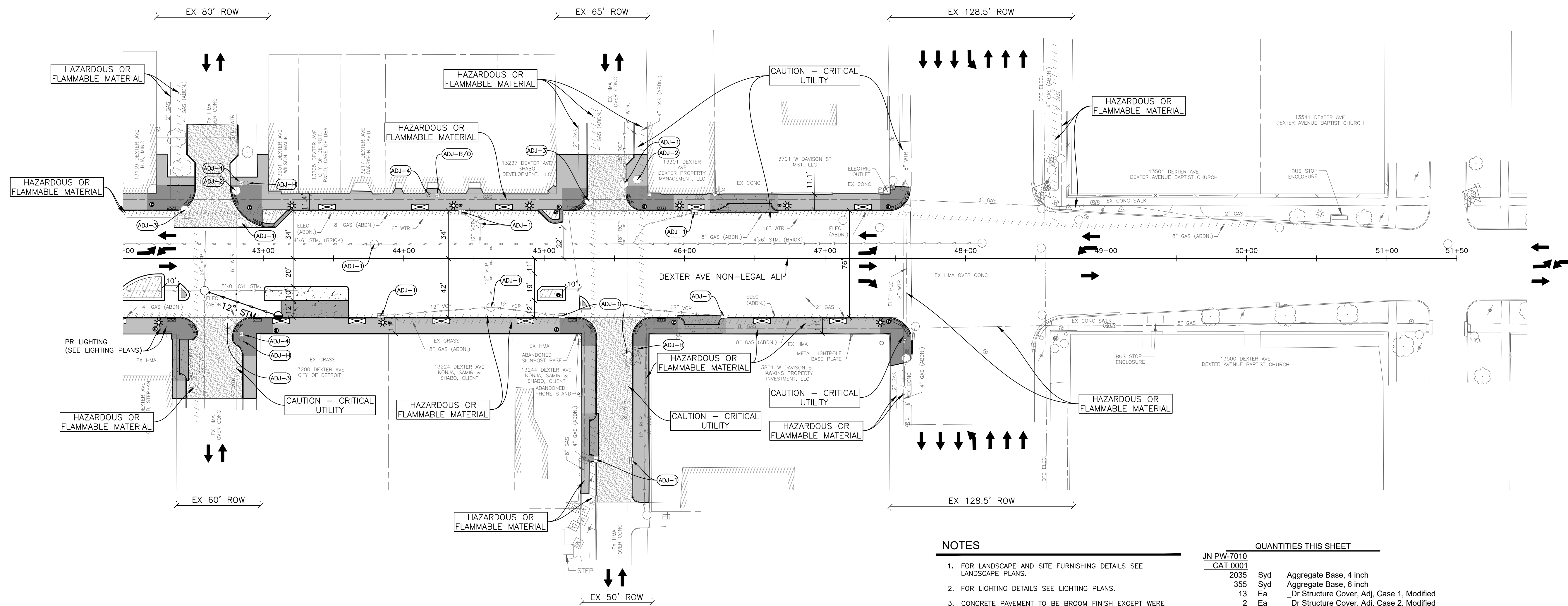
SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape



NOTES

- FOR LANDSCAPE AND SITE FURNISHING DETAILS SEE LANDSCAPE PLANS.
- FOR LIGHTING DETAILS SEE LIGHTING PLANS.
- CONCRETE PAVEMENT TO BE BROOM FINISH EXCEPT WHERE NOTE OTHERWISE. REFER TO LANDSCAPE PLANS FOR CONCRETE FINISH TYPE.

QUANTITIES THIS SHEET

JN PW-7010		CAT 0001	
2035	Syd	Aggregate Base, 4 inch	
355	Syd	Aggregate Base, 6 inch	
13	Ea	_Dr Structure Cover, Adj, Case 1, Modified	
2	Ea	_Dr Structure Cover, Adj, Case 2, Modified	
30	Ton	Hand Patching	
411	Ton	HMA, 5EMH	
101	Ton	_HMA Approach, Modified	
303	Syd	Conc Base Cse, Nonreinf, 10 inch	
65	Syd	_Conc Pavt, Misc, Nonreinf, 6 inch, Modified	
1440	Ft	_Concrete Curb, Detail CD, Modified	
236	Ft	_Integral Curb and Sidewalk, 2 Foot, Modified	
301	Ft	_Curb Ramp Opening, Conc, Modified	
154	Ft	_Detectable Warning Surface Tile, Modified	
599	Sft	_Integral Conc Island	
3943	Sft	_Sidewalk Ramp, ADA, Modified	
10831	Sft	_Sidewalk, Conc, 4 inch, Modified	
100	Sft	_Sidewalk, Conc, 12 inch, Modified	
4	Ea	_Water Shutoff, Adj, Case 1, Modified	
3	Ea	_Water Shutoff, Adj, Case 2, Modified	
3	Ea	_Hydrant, Adj	
12	Ea	_Conc, Divider	

DRIVEWAY TABLE							Aggregate Base, 4 inch	_Driveway, Nonreinf, Conc, 6 inch, Modified	Concrete Curb, Detail CD, Modified	Sidewalk, Conc, 8 inch, Modified
ALIGNMENT	STATION	BACK OFFSET FROM CL	PROP DRIVEWAY SLOPE	PROP DRIVEWAY WIDTH	RADIUS ENTERING	RADIUS EXITING				
Dexter Ave	42+40.34 RT	70.0	--	24.0	5.0	5.0	Syd	Syd	Ft	Sft
Dexter Ave	45+32.09 RT	127.5	--	24.0	5.0	5.0	39	19	15	167
Dexter Ave	46+12.20 RT	47.0	--	24.0	5.0	5.0	47	21	16	218
Dexter Ave	46+46.32 LT	39.0	--	30.0	5.0	20.0	50	21	16	249
TOTAL							72	28	23	384
							208	89	70	1018

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

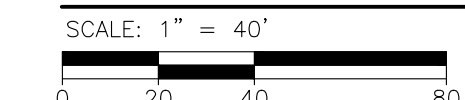
191190

SHEET NO.

37

CON005

CONSTRUCTION PLAN



TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS ST

TYLER STREET

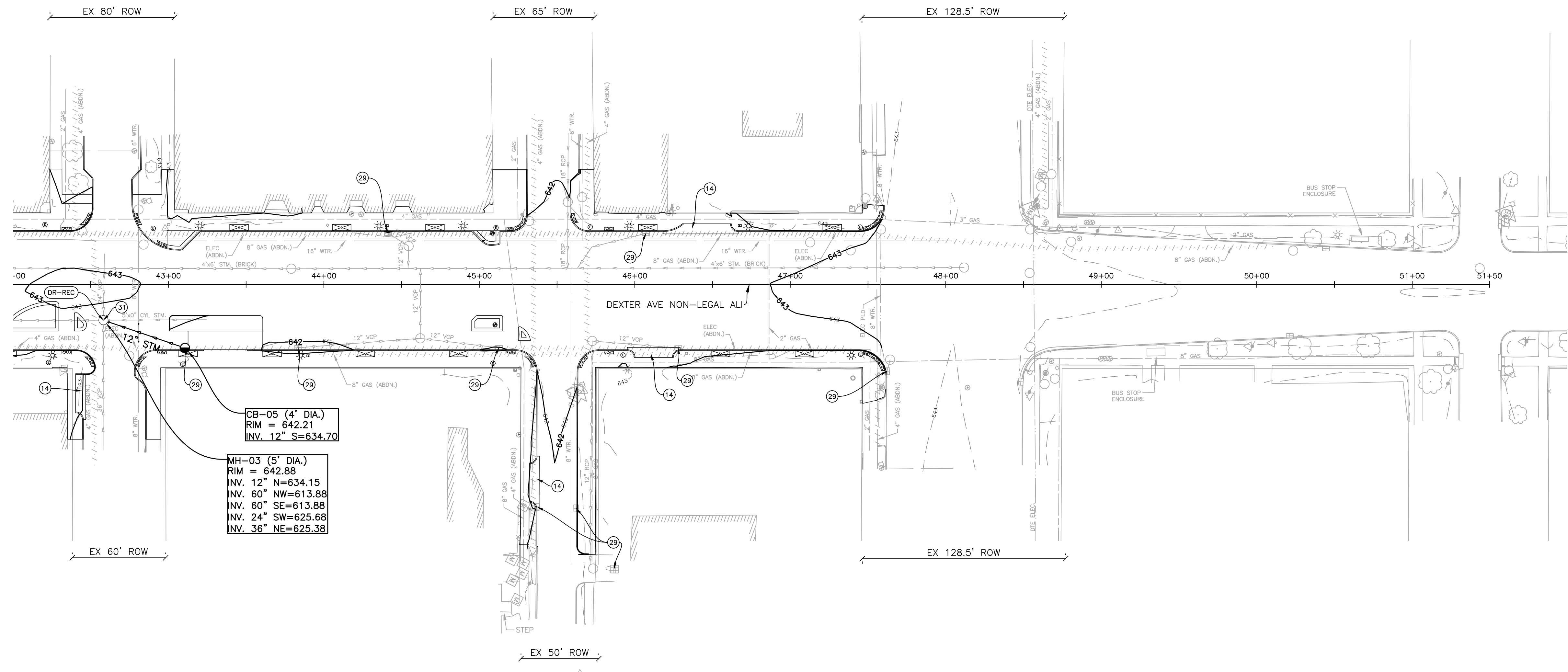
WAVERLY STREET

W DAVISON STREET

CLEMENTS ST



PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETSCAPE  
POE (DEXTER AVE NON-LEGAL ALI)  
STA: 47+61.30



CB-05 (4' DIA.)  
RIM = 642.21  
INV. 12" S=634.70

MH-03 (5' DIA.)  
RIM = 642.88  
INV. 12" N=634.15  
INV. 60" NW=613.88  
INV. 60" SE=613.88  
INV. 24" SW=625.68  
INV. 36" NE=625.38

DRAINAGE STRUCTURE AND SEWER TABLE					Sewer, CI IV, 12 inch, Tr Det B	_Dr Structure, Reconstruct, Modified	_Dr Structure Cover, Type CB, Modified	_Dr Structure Cover, Type MH, Modified	_Dr Structure, 48 inch dia, Modified
STRUCT NO.	ALIGNMENT	STATION	OFFSET		RIM ELEV	Ft	Ea	Ea	Ea
			FT	FT					
CB-05	DEXTER AVE	43+10.69	40.90 RT		642.21	55	--	1	--
MH-03	DEXTER AVE	42+58.20	23.00 RT		642.88	--	10	--	1
TOTAL						55	10	1	1

- JN PW-7010  
CAT 0001
- 4 Ea Erosion Control, Gravel Access Approach
  - 1 Ea Erosion Control, Inlet Protection, Fabric Drop
  - 10 Ea Erosion Control, Inlet Protection, Sediment Trap
  - 55 Ft Video Taping Sewer and Culv Pipe
  - 2 Ft Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot
  - 20 Ft \_Dr Structure Lead, Cleaning, Modified
  - 2 Ea \_Dr Structure Cleaning, Modified

DEXTER AVENUE

DEXTER AVENUE

City of Detroit

Dexter Avenue Streetscape

SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be  
24"x36" when plotted. Scale(s)  
indicated and graphic quality may  
not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

38

DRN005

DRAINAGE AND SESC PLAN

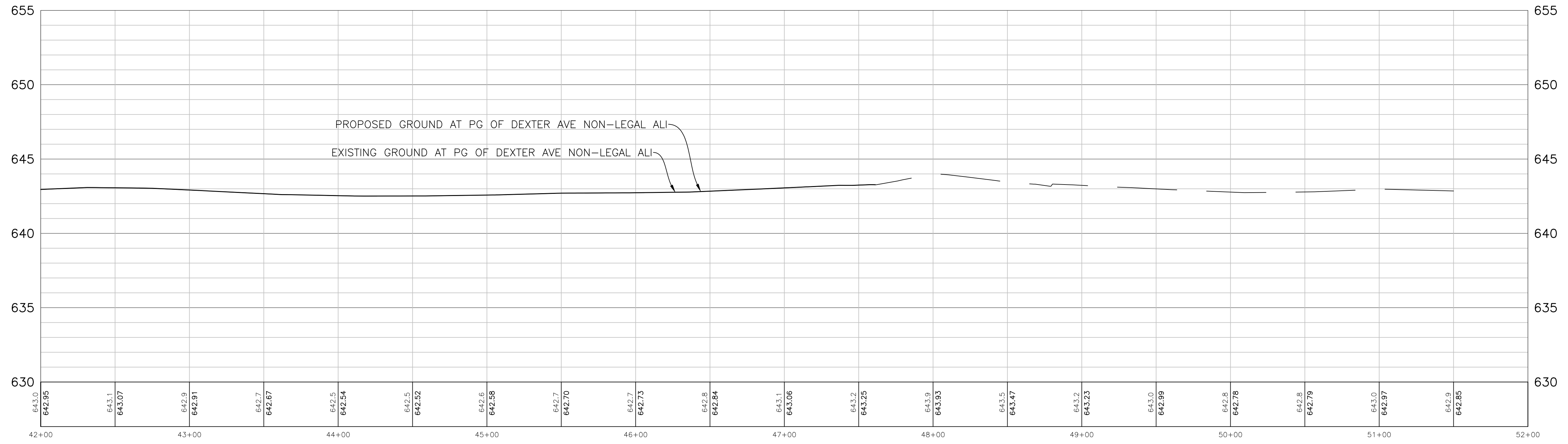
SCALE: 1" = 40'  
0 20 40 80

TYLER STREET

WAVERLY STREET

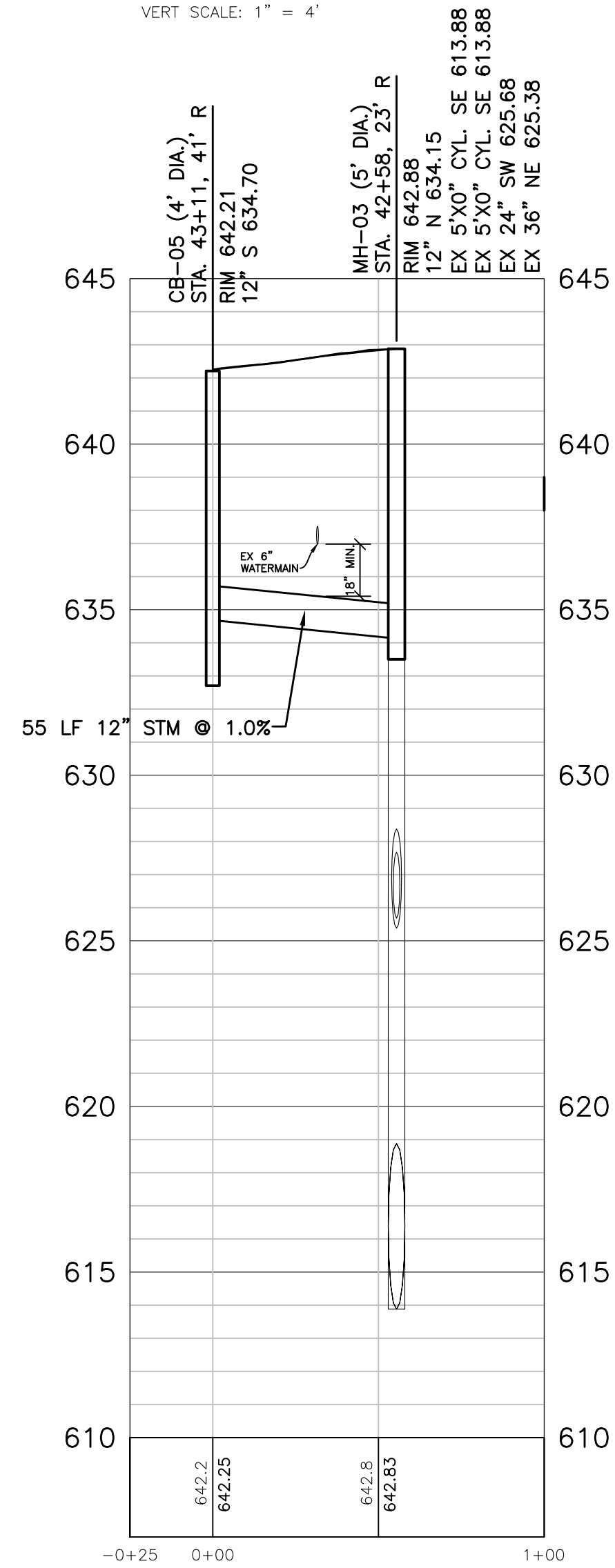
W DAVISON STREET

CLEMENTS ST



**ROAD PROFILE**

SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'



**CB-05 TO MH-03  
 STORM PROFILE**

SCALE: 1" = 40'  
 0 20 40 80  
 VERT SCALE: 1" = 4'

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PROF\_05.DWG LAYOUT: PROF005 DATE: 7/17/2023 TIME: 6:40:53 PM USER: ADFRANZON



**SMITHGROUP**

500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.983.3600  
 www.smithgroup.com



**City of Detroit**

**Dexter Avenue Streetscape**

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**39**  
**PROF005**

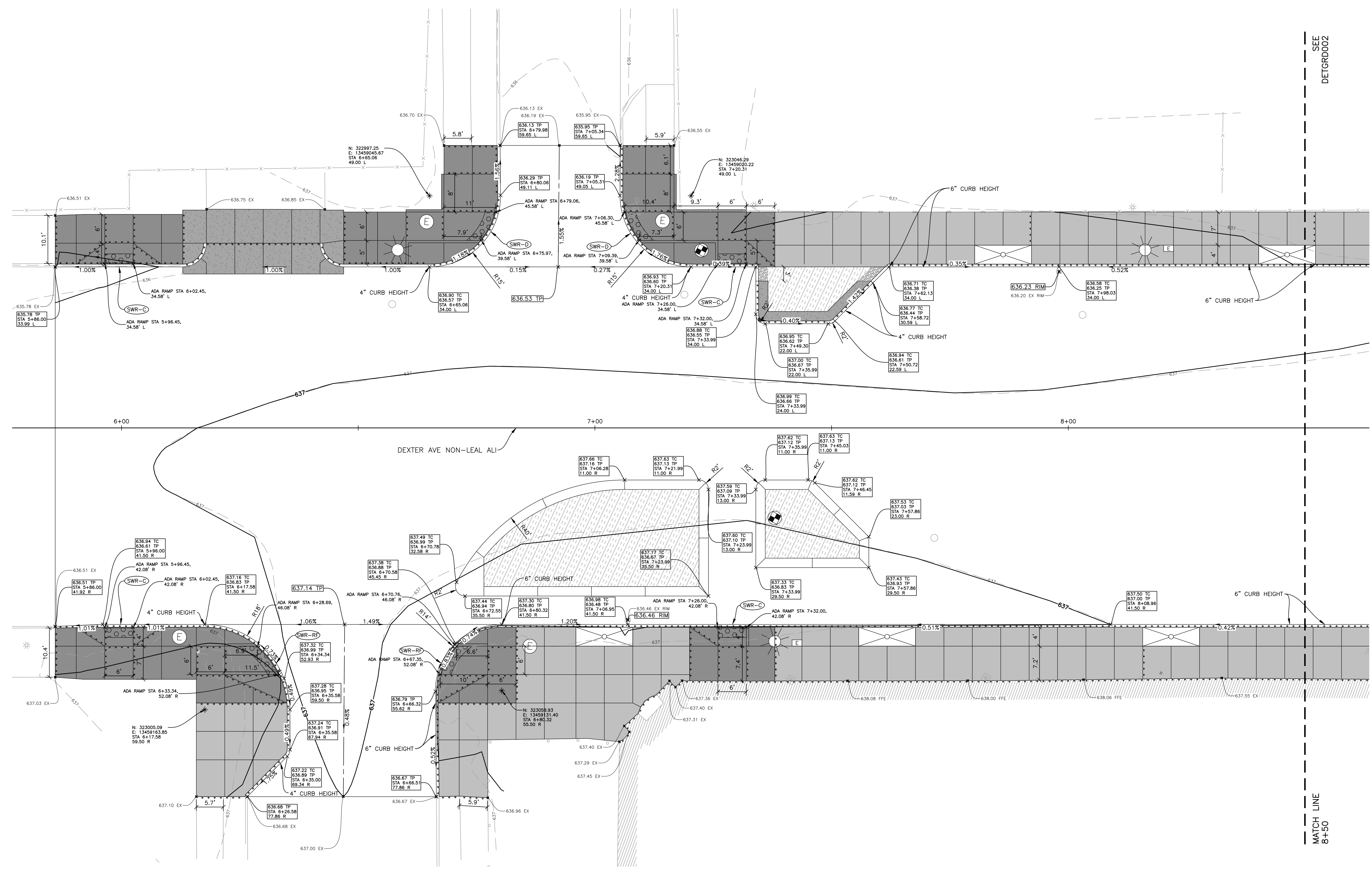
© Copyright 2023  
 All Rights Reserved

WEBB STREET



DEXTER AVENUE

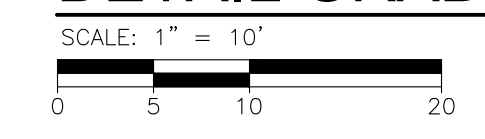
DEXTER AVENUE



SEE  
DETGRD002

MATCH LINE  
8+50

**DETAIL GRADE**



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_001.DWG LAYOUT: DETGRD001 DATE: 7/20/2023 TIME: 2:36:43 PM USER: ADFRANZONI

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
Designer: AOF  
Reviewer: SJP/DPE  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**40**

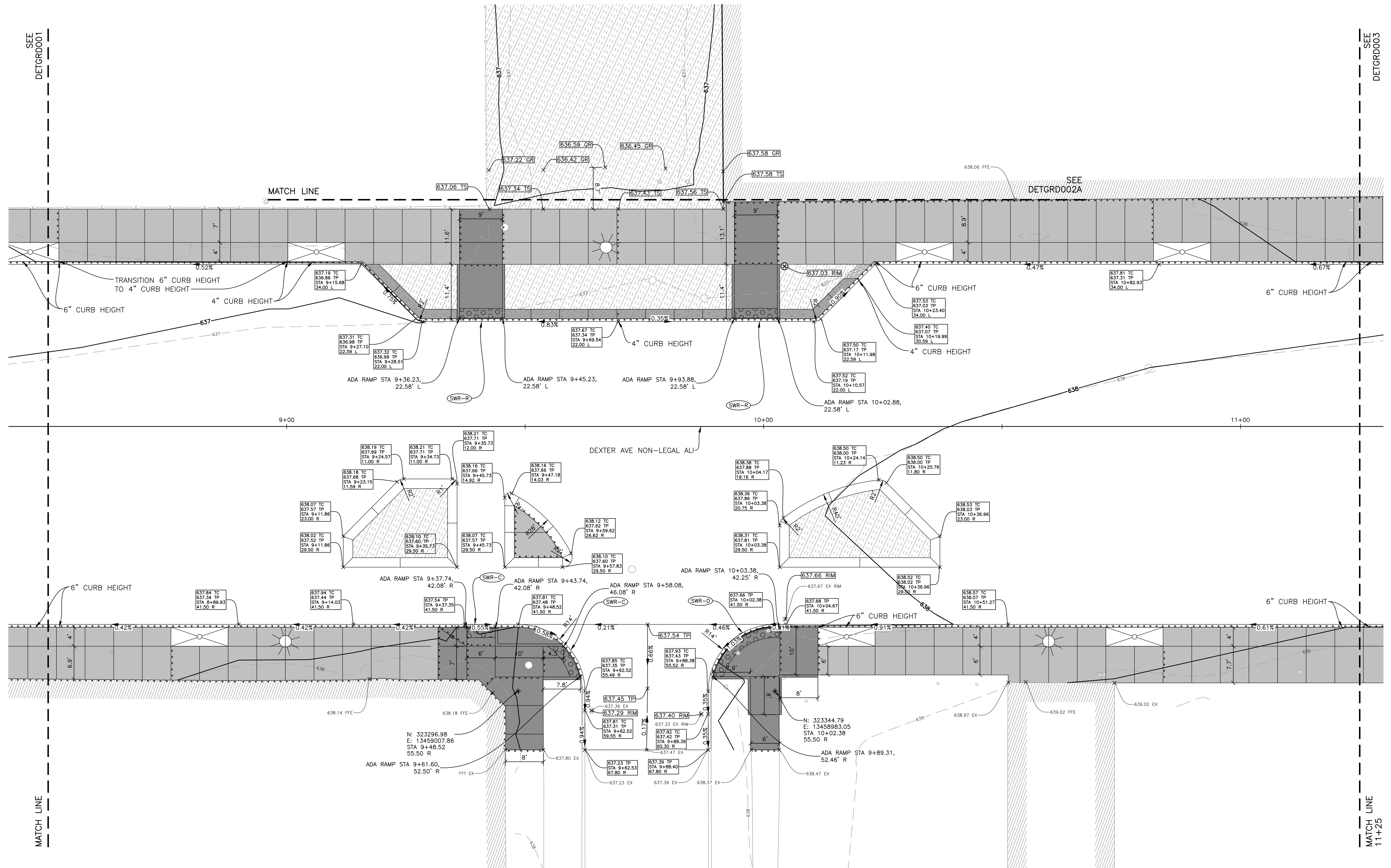
**DETGRD001**





DEXTER AVENUE

DEXTER AVENUE



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_002.DWG LAYOUT: DETGRD002 DATE: 7/20/2023 TIME: 12:51:07 PM USER: AOFFRANZON

**DETAIL GRADE**

SCALE: 1" = 10'



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
Designer: AOF  
Reviewer: SJP/DPE  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

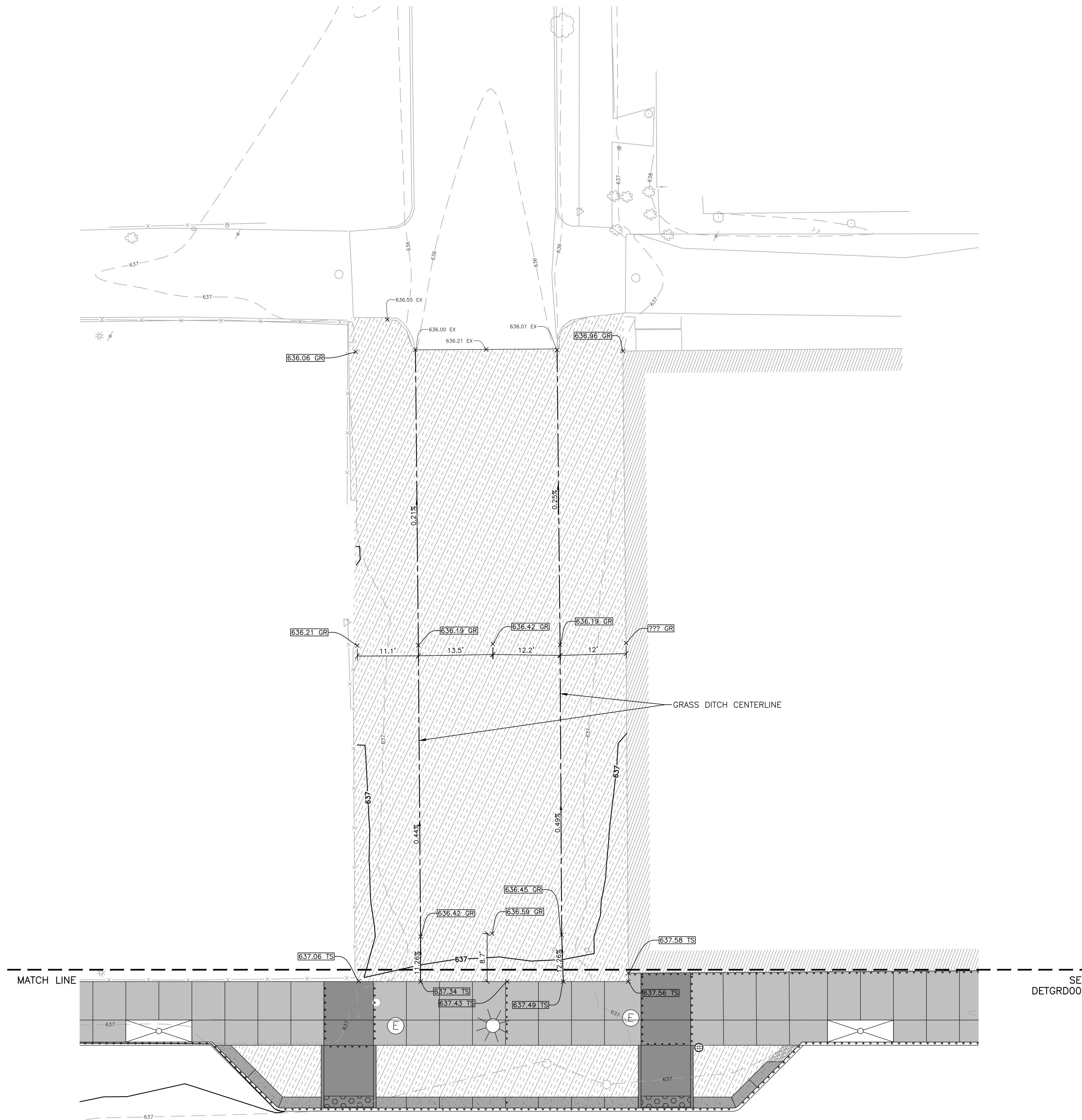
PROJECT NO.  
**191190**

SHEET NO.  
**41**

**DETGRD002**

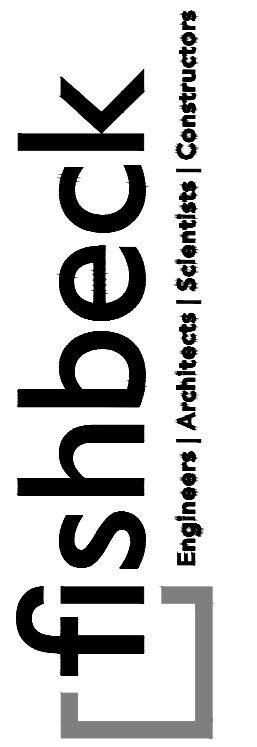
PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_002.DWG LAYOUT: DETGRD002A DATE: 7/20/2023 TIME: 12:51:41 PM USER: AOPRANZON

TUXEDO STREET



DETAIL GRADE

SCALE: 1" = 10'  
0 5 10 20



SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

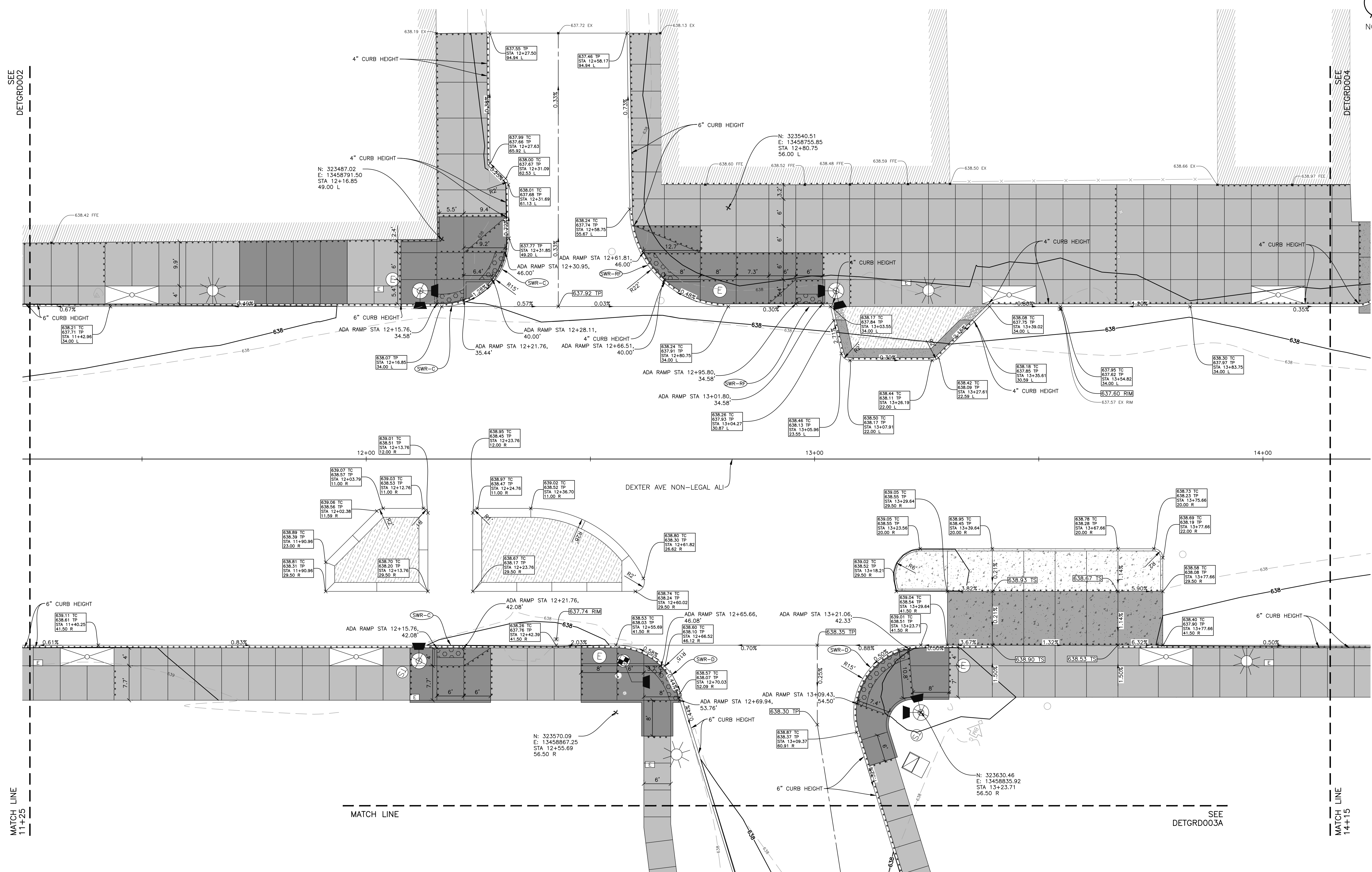
SHEET NO.

42

DETGRD002A

© Copyright 2023  
All Rights Reserved

ELMHURST STREET



SEE  
DETGRD002

SEE  
DETGRD004

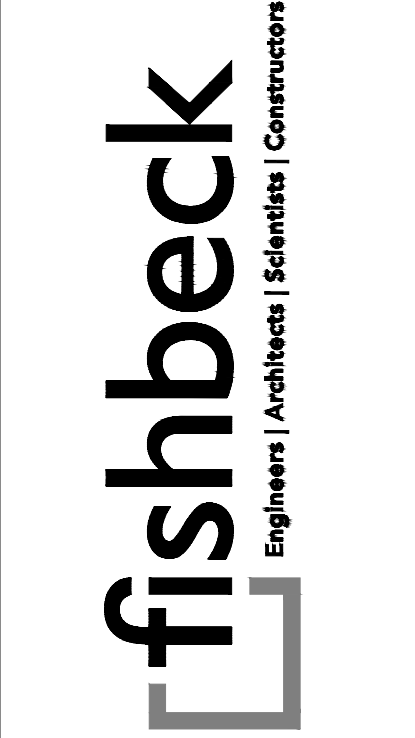
DEXTER AVENUE

DEXTER AVENUE

MATCH LINE  
11+25

MATCH LINE  
14+15

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_DETGRD\_004.DWG LAYOUT: DETGRD003 DATE: 7/20/2023 TIME: 9:41:33 AM USER: ADFRANZON



**SMITHGROUP**  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**  
Dexter Avenue Streetscape

REVISIONS	
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**43**

**DETGRD003**

© Copyright 2023  
All Rights Reserved

**DETAIL GRADE**  
SCALE: 1" = 10'  
0 5 10 20

ELMHURST STREET



DEXTER AVENUE

**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

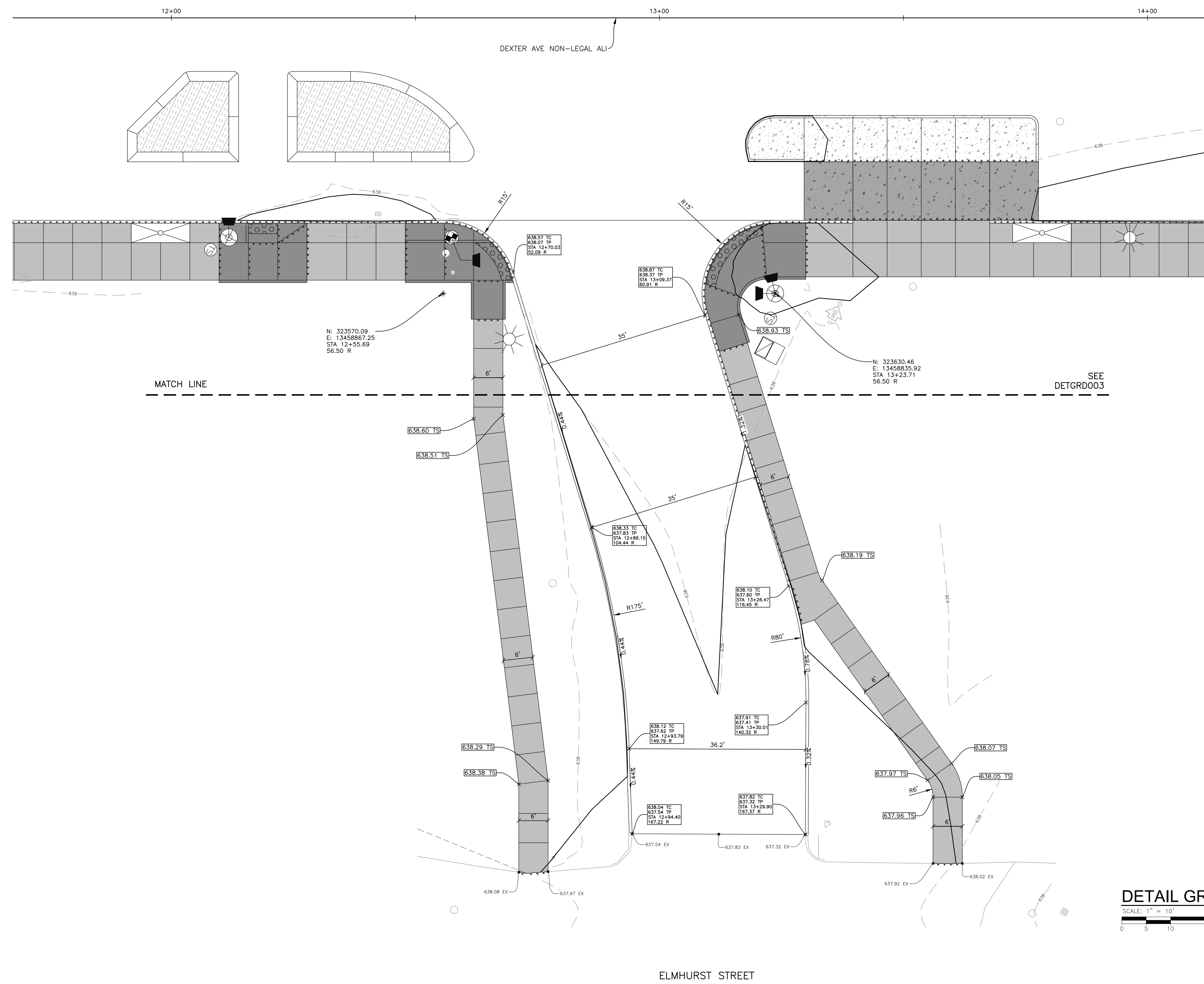
Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**44**

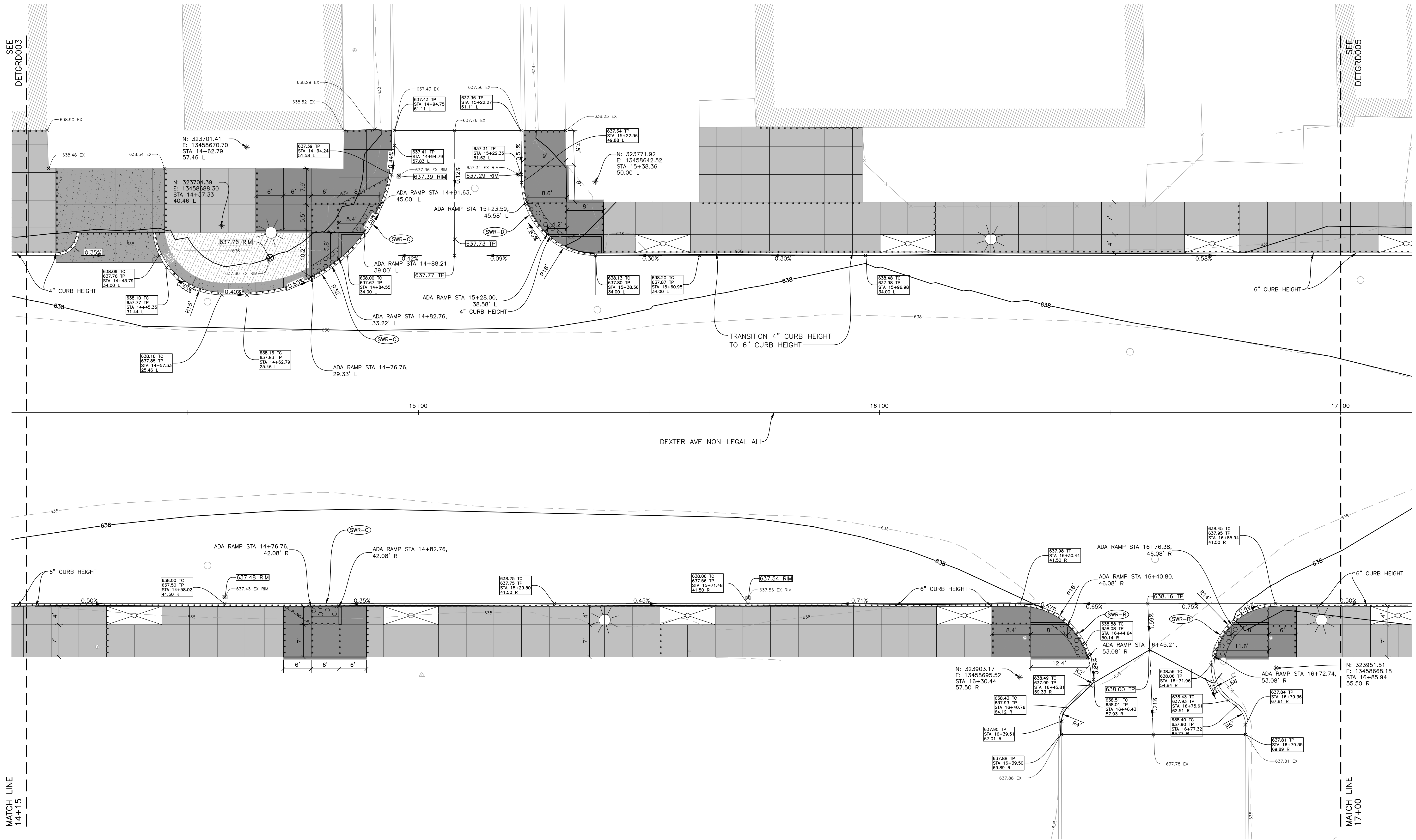
**DETGRD003A**



**DETAIL GRADE**  
 SCALE: 1" = 10'  
 0 5 10 20

DEXTER AVENUE

ELMHURST STREET



**DETAIL GRADE**

SCALE: 1" = 10'



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_DETGRD\_005.DWG LAYOUT: DETGRD004 DATE: 7/20/2023 TIME: 10:03 PM USER: ADFRANZON

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

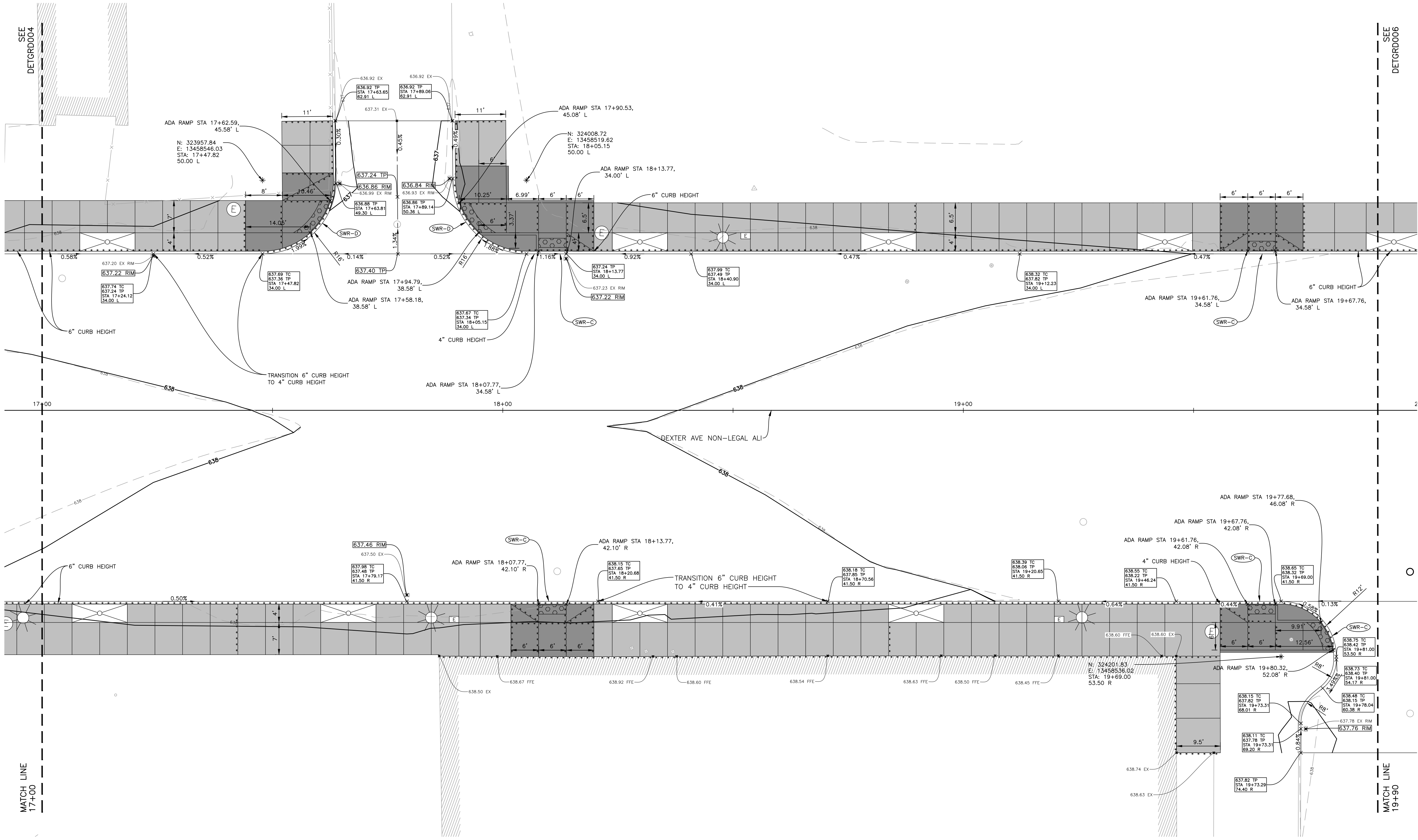
Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DFE  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**45**

**DETGRD004**



**DETAIL GRADE**

SCALE: 1" = 40'



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DFE  
 Manager KK3

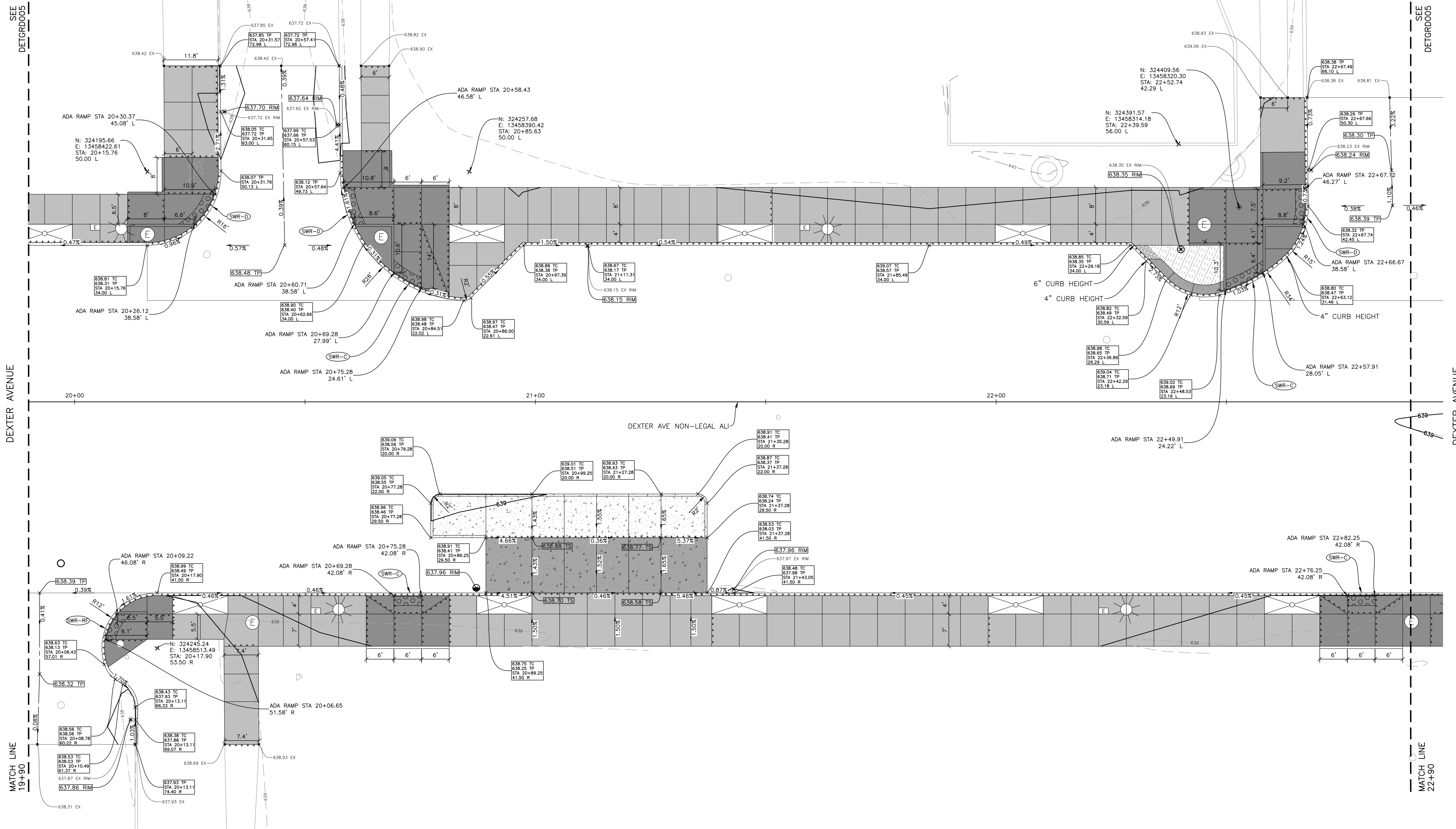
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
46

DETGRD005

RICHTON STREET



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_007.DWG LAYOUT: DETGRD006 DATE: 7/20/2023 TIME: 1:06:47 PM USER: ADFRANZON

RICHTON STREET

DETAIL GRADE

SCALE: 1" = 10'



SMITHGROUP

500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com



City of Detroit  
Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

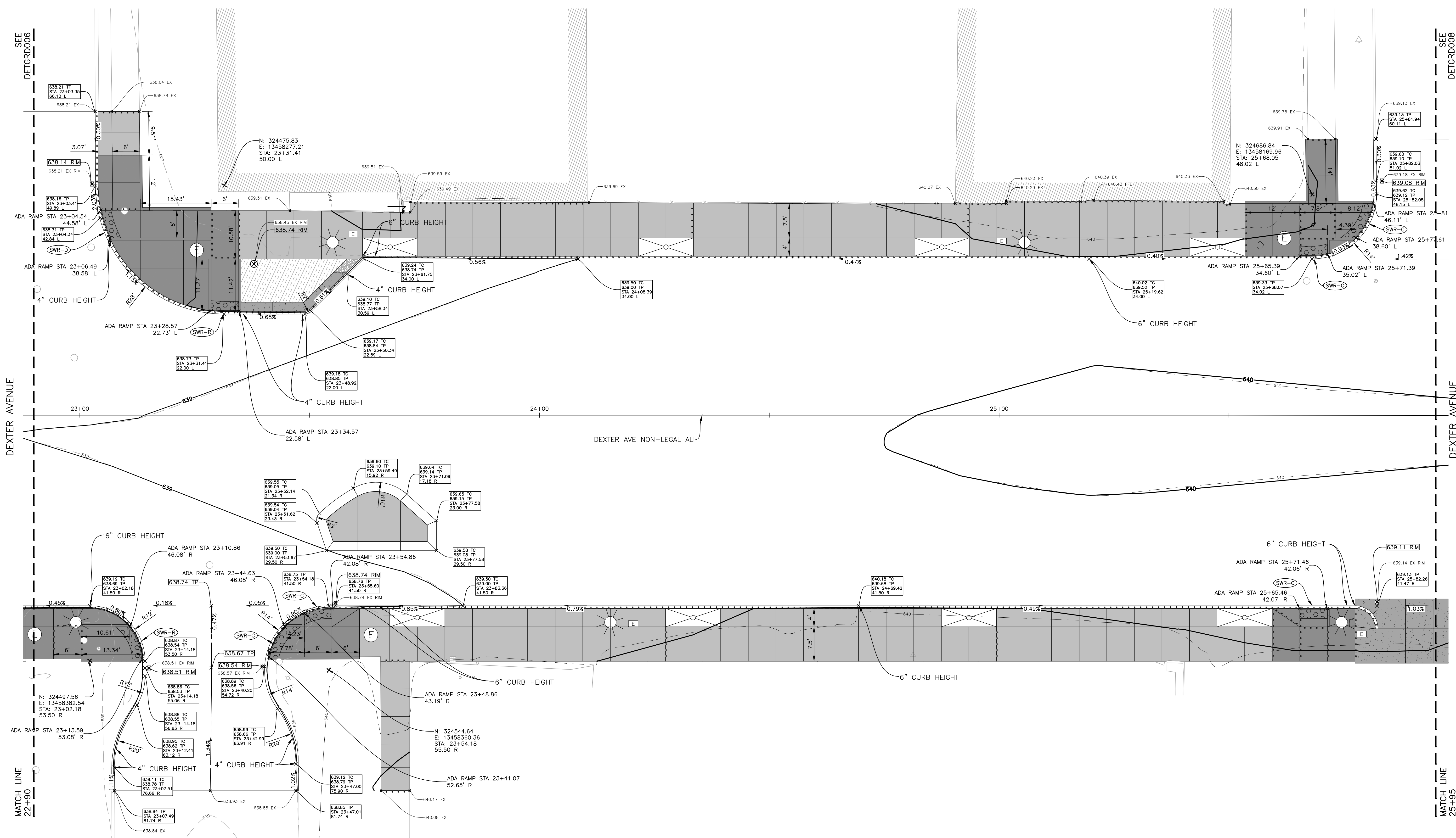
Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DFE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
47

DETGRD006



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_DETGRD\_088.DWG LAYOUT: DETGRD007 DATE: 7/20/2023 TIME: 9:44:17 AM USER: ADFRANZON



**SMITHGROUP**  
 500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.993.3600  
 www.smithgroup.com



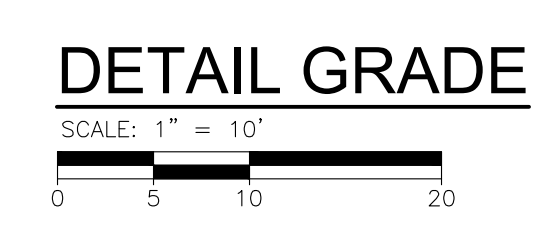
**City of Detroit**  
 Dexter Avenue Streetscape

REVISIONS	
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

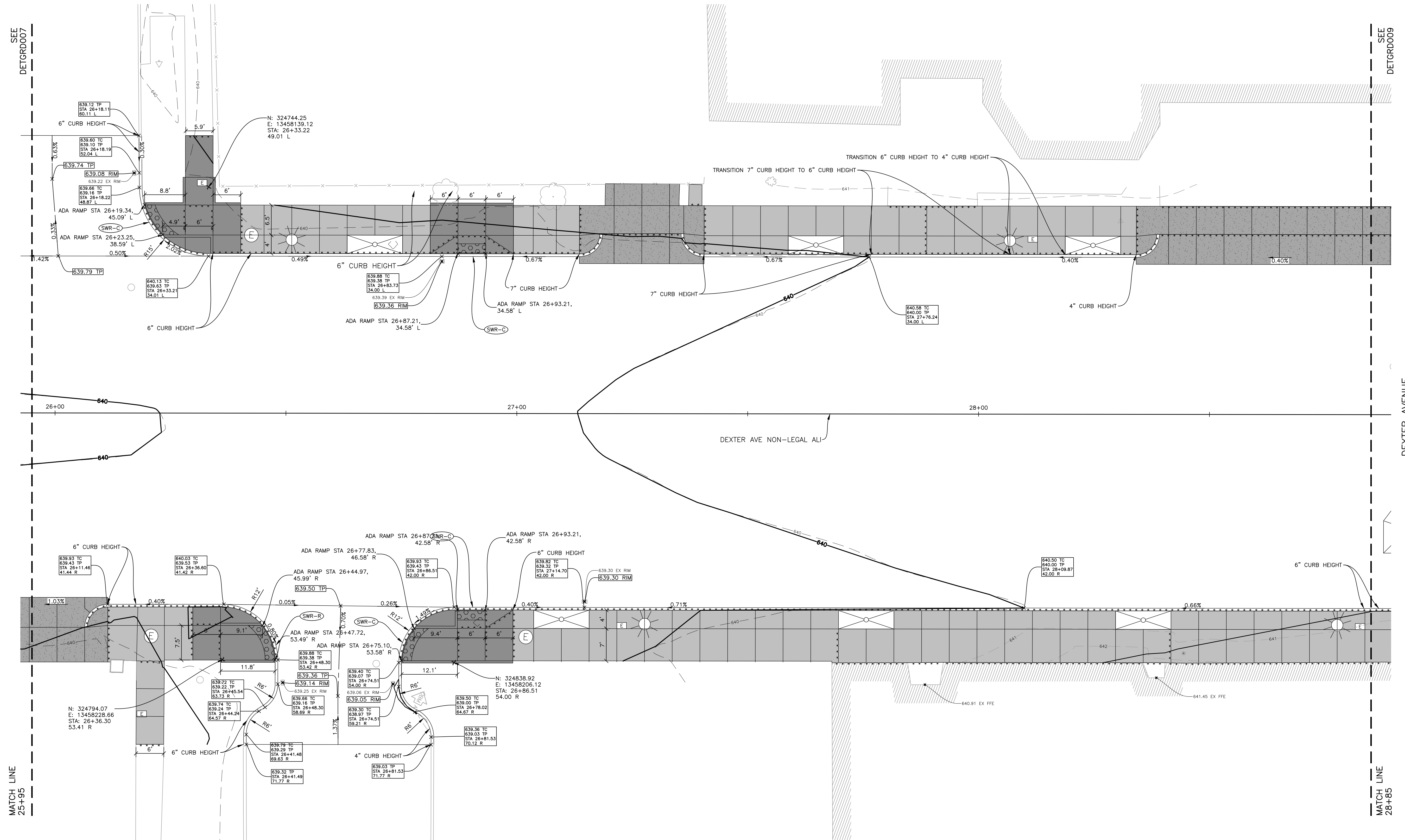
Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DPE  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**  
 SHEET NO.  
**48**  
**DETGRD007**







PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_089.DWG LAYOUT: DETGRD008 DATE: 7/20/2023 TIME: 9:44:51 AM USER: ADFRANCON

MATCH LINE  
25+95

MATCH LINE  
28+85

**DETAIL GRADE**

SCALE: 1" = 10'  
0 5 10 20



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

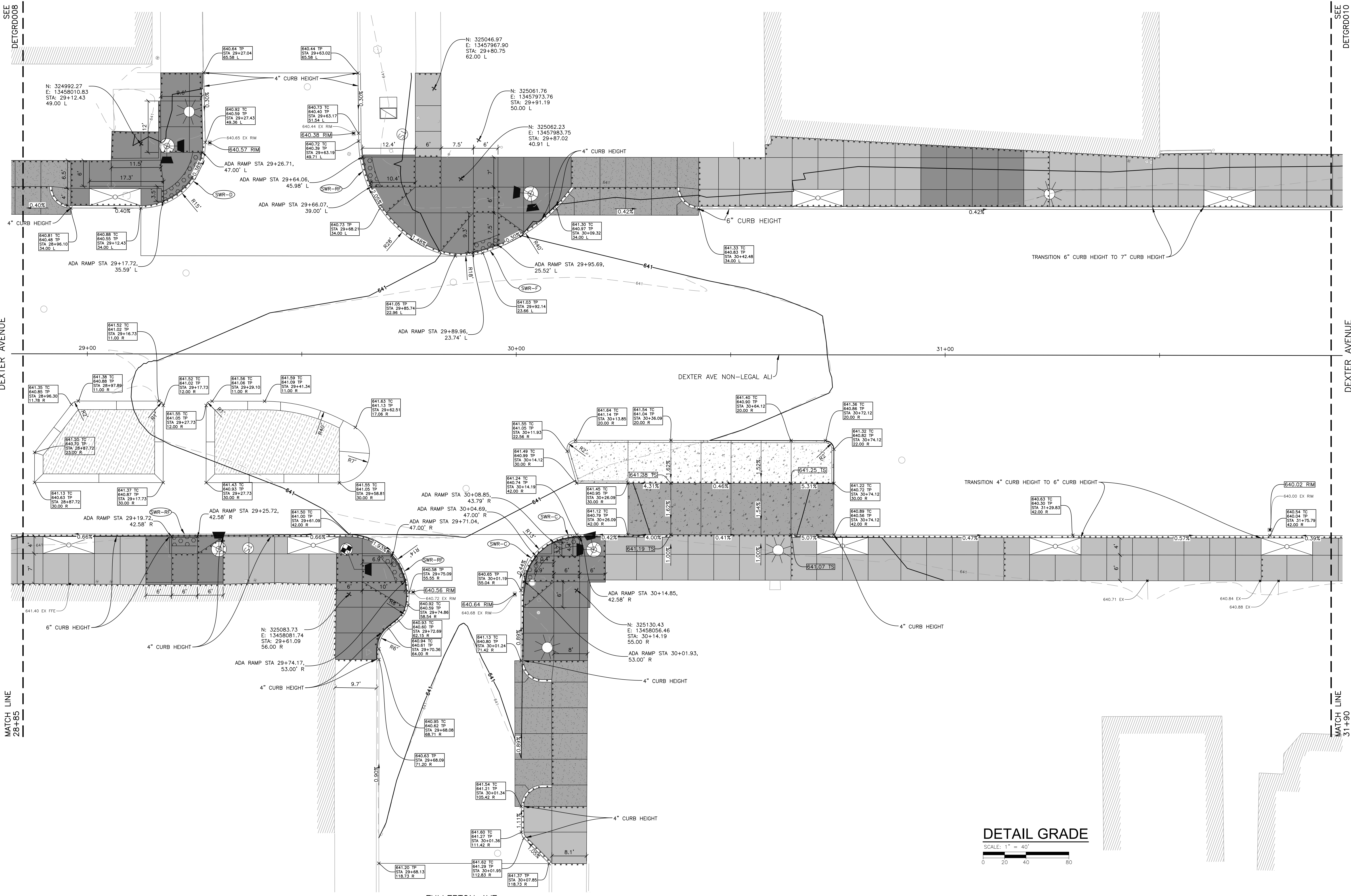
PROJECT NO.

191190

SHEET NO.

49

DETGRD008



SEE DETGRD008

SEE DETGRD010

DEXTER AVENUE

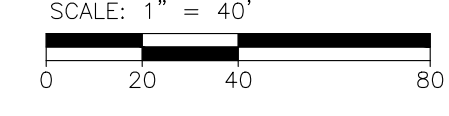
DEXTER AVENUE

MATCH LINE 28+85

MATCH LINE 31+90

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_DETGRD\_010.DWG LAYOUT: DETGRD009 DATE: 7/20/2023 TIME: 1:08:59 PM USER: ACFRANZONI

**DETAIL GRADE**



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

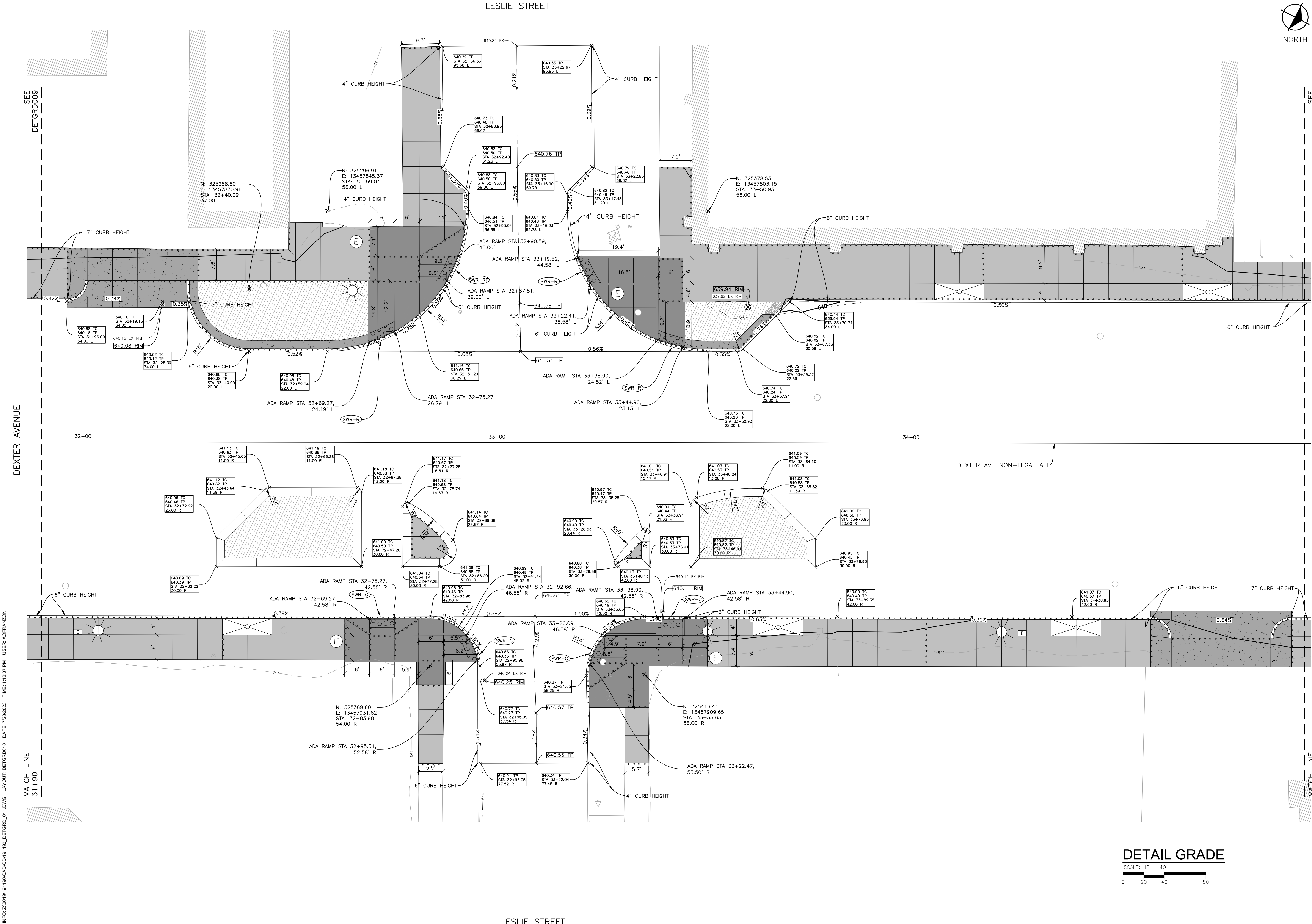
Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**50**

**DETGRD009**



PLOT INFO: Z:\2019\191190\CAD\CD\191190\_DETGRD\_011.DWG LAYOUT: DETGRD010 DATE: 7/20/2023 TIME: 1:12:07 PM USER: ADFRANZON

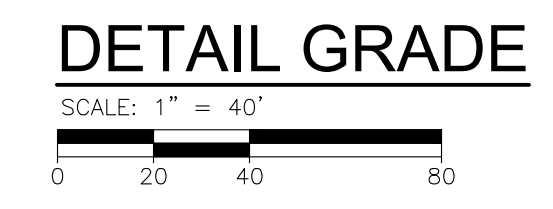


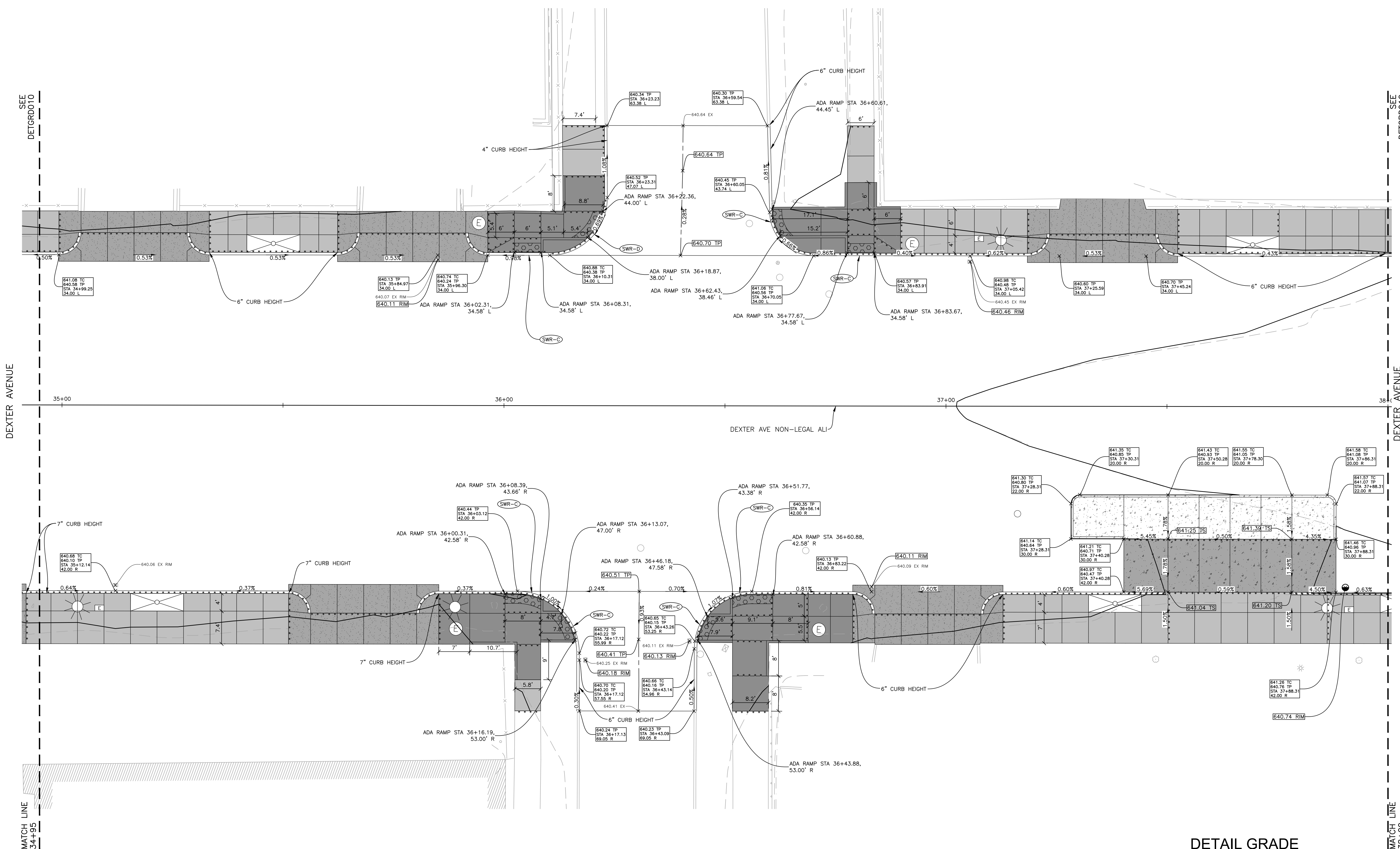
REVISIONS	
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DFE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**  
 SHEET NO.  
**51**  
**DETGRD010**





**DETAIL GRADE**

SCALE: 1" = 40'



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

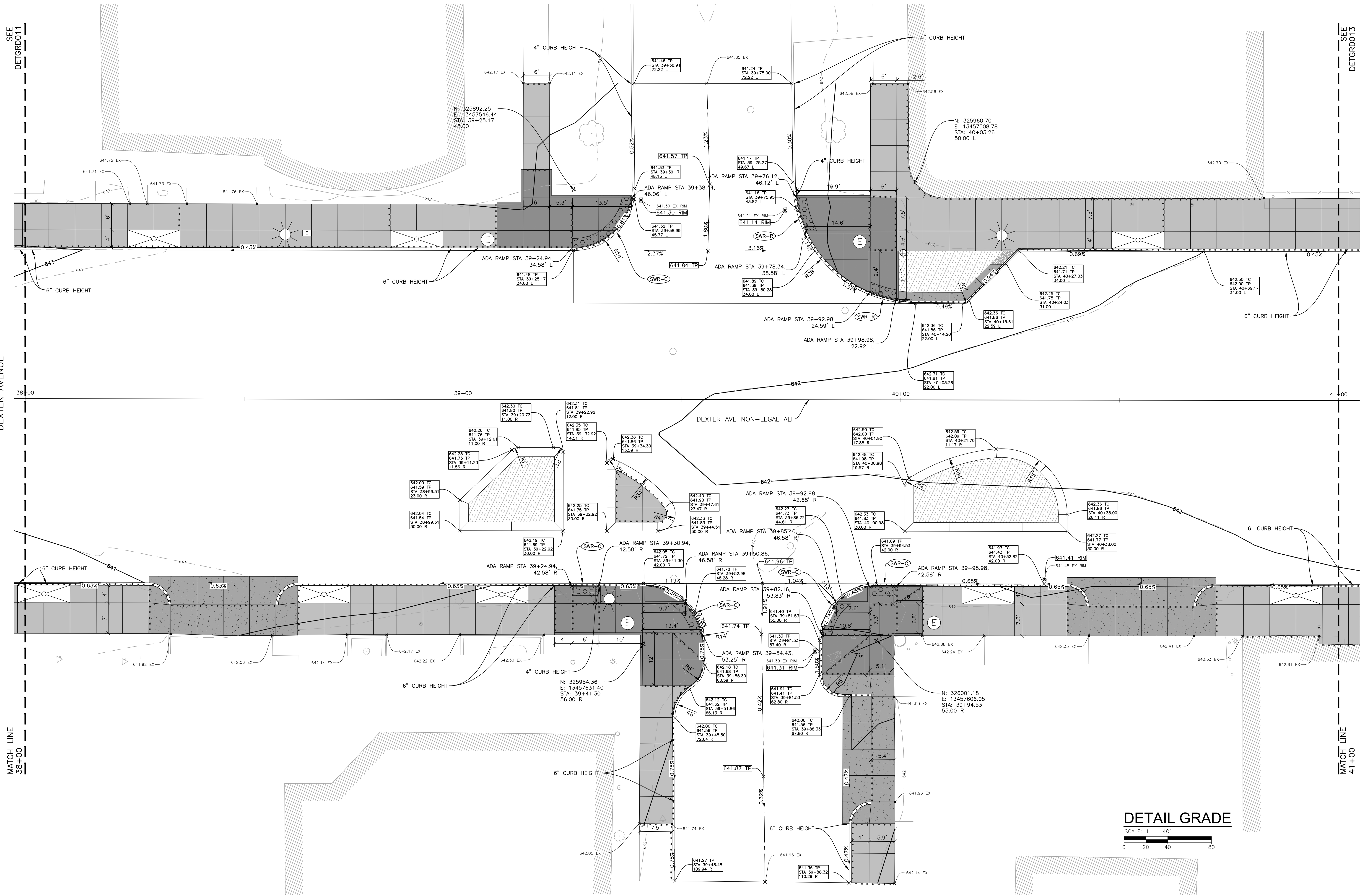
PROJECT NO.  
191190

SHEET NO.  
52

DETGRD011

PLOT INFO: Z:\2019\191190\CD\CD191190\_DETGRD\_012.DWG LAYOUT: DETGRD011 DATE: 7/20/2023 TIME: 1:21:45 PM USER: AOF/ANZON

BUENA VISTA STREET



**DETAIL GRADE**  
SCALE: 1" = 40'

PLOT INFO: Z:\2018\191190\CAD\CD\191190\_DETGRD\_013.DWG LAYOUT: DETGRD012 DATE: 7/20/2023 TIME: 9:47:02 AM USER: ADFRANZON



**SMITHGROUP**  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48226  
313.993.3600  
www.smithgroup.com



**City of Detroit**  
Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
Designer: AOF  
Reviewer: SJP/DPE  
Manager: KK3

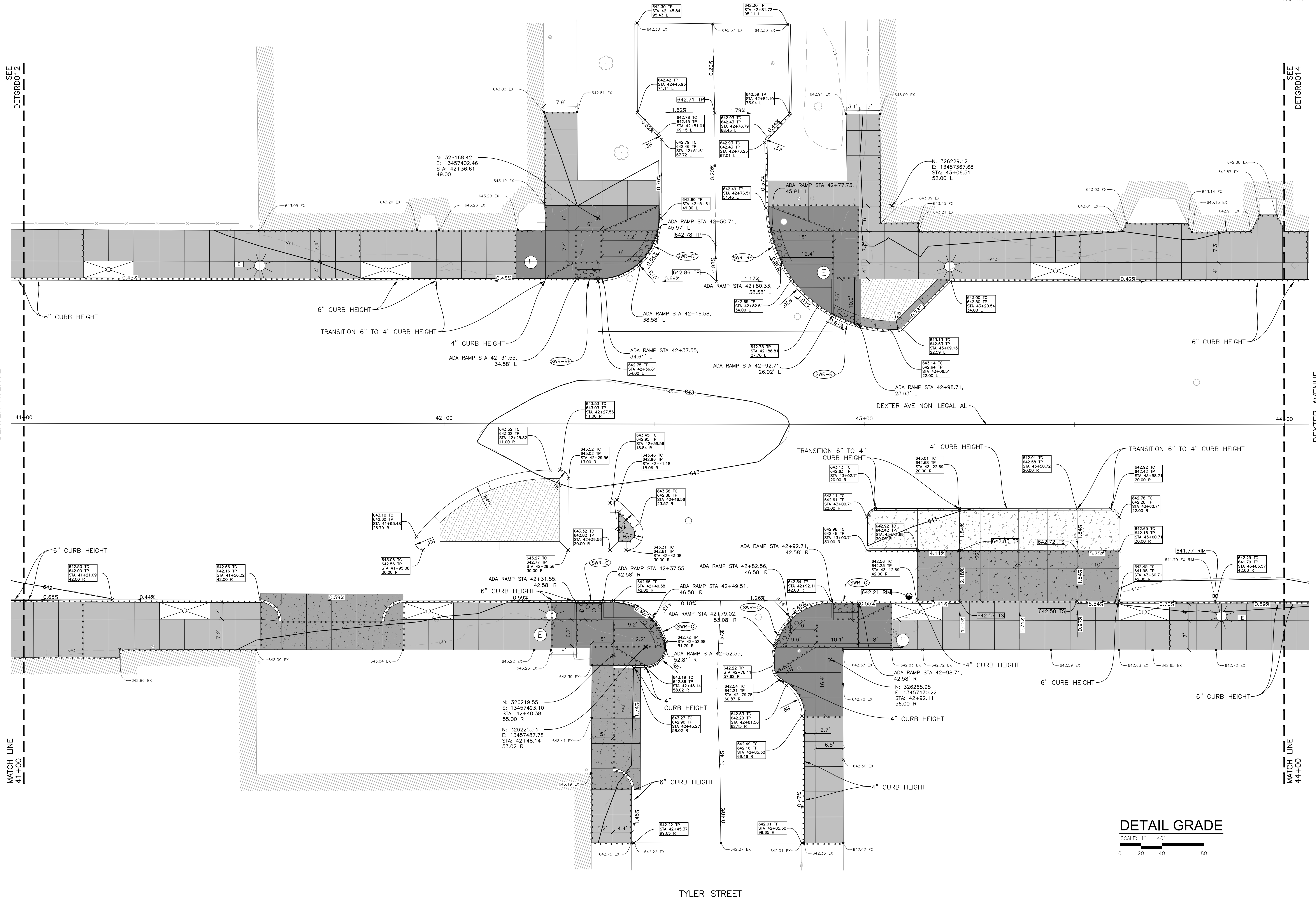
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**53**

**DETGRD012**

TYLER STREET



**DETAIL GRADE**

SCALE: 1" = 40'



PLOT INFO: Z:\2019\191190\CADD\CD191190\_DETGRD\_014.DWG LAYOUT: DETGRD013 DATE: 7/20/2023 TIME: 2:26:25 PM USER: ADFRANZONI



**SMITHGROUP**  
 500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48266  
 313.993.3600  
 www.smithgroup.com



**City of Detroit**  
 Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: AOF  
 Designer: AOF  
 Reviewer: SJP/DPE  
 Manager: KK3

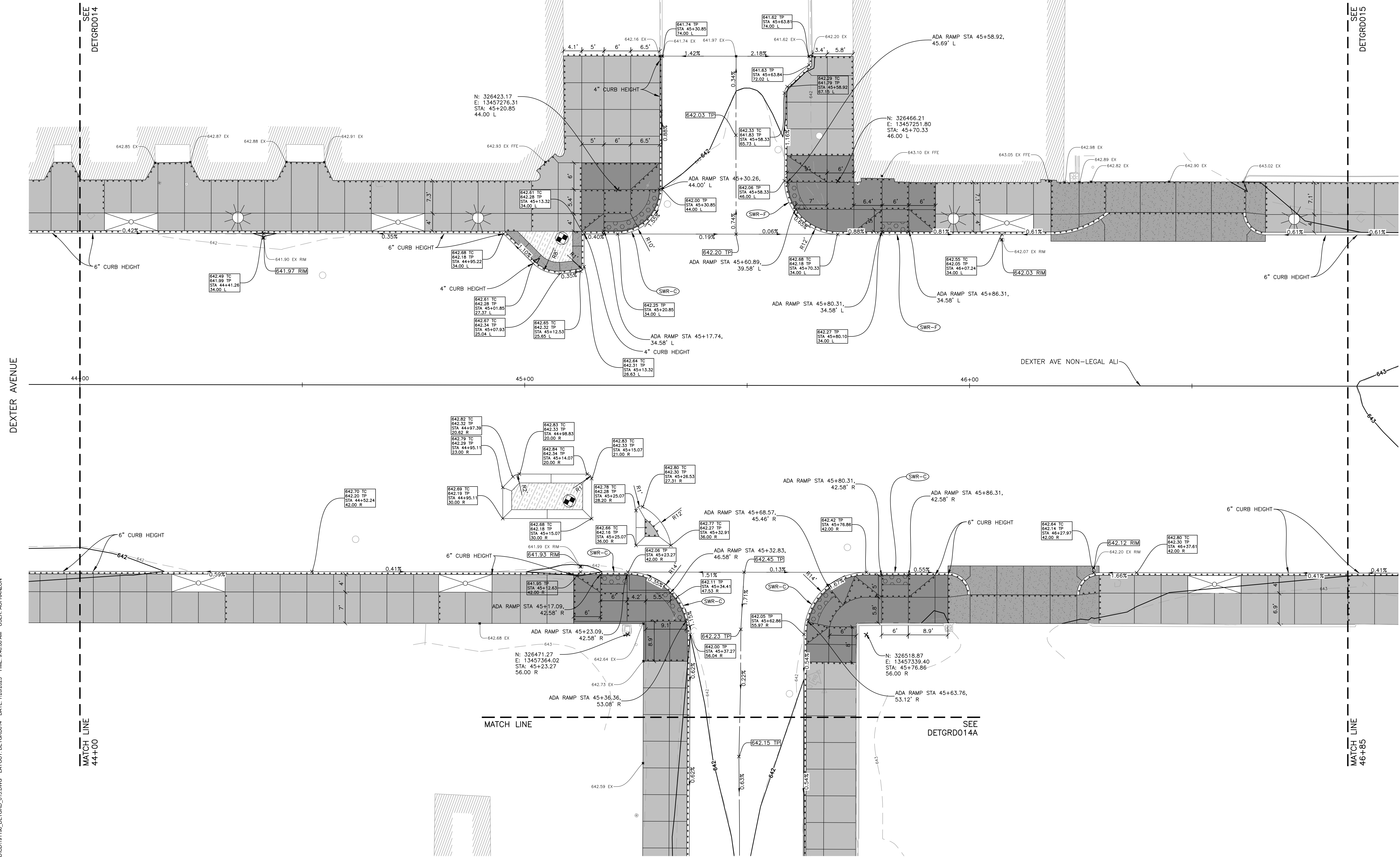
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**54**

DETGRD013

WAVERLY STREET



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_DETGRD\_015.DWG LAYOUT: DETGRD014 DATE: 7/20/2023 TIME: 9:48:08 AM USER: AOF/FRANZON



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48226  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
Designer AOF  
Reviewer SJP/DPE  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**55**  
**DETGRD014**

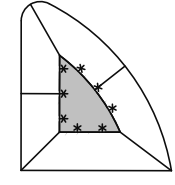
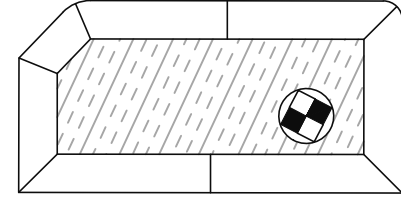
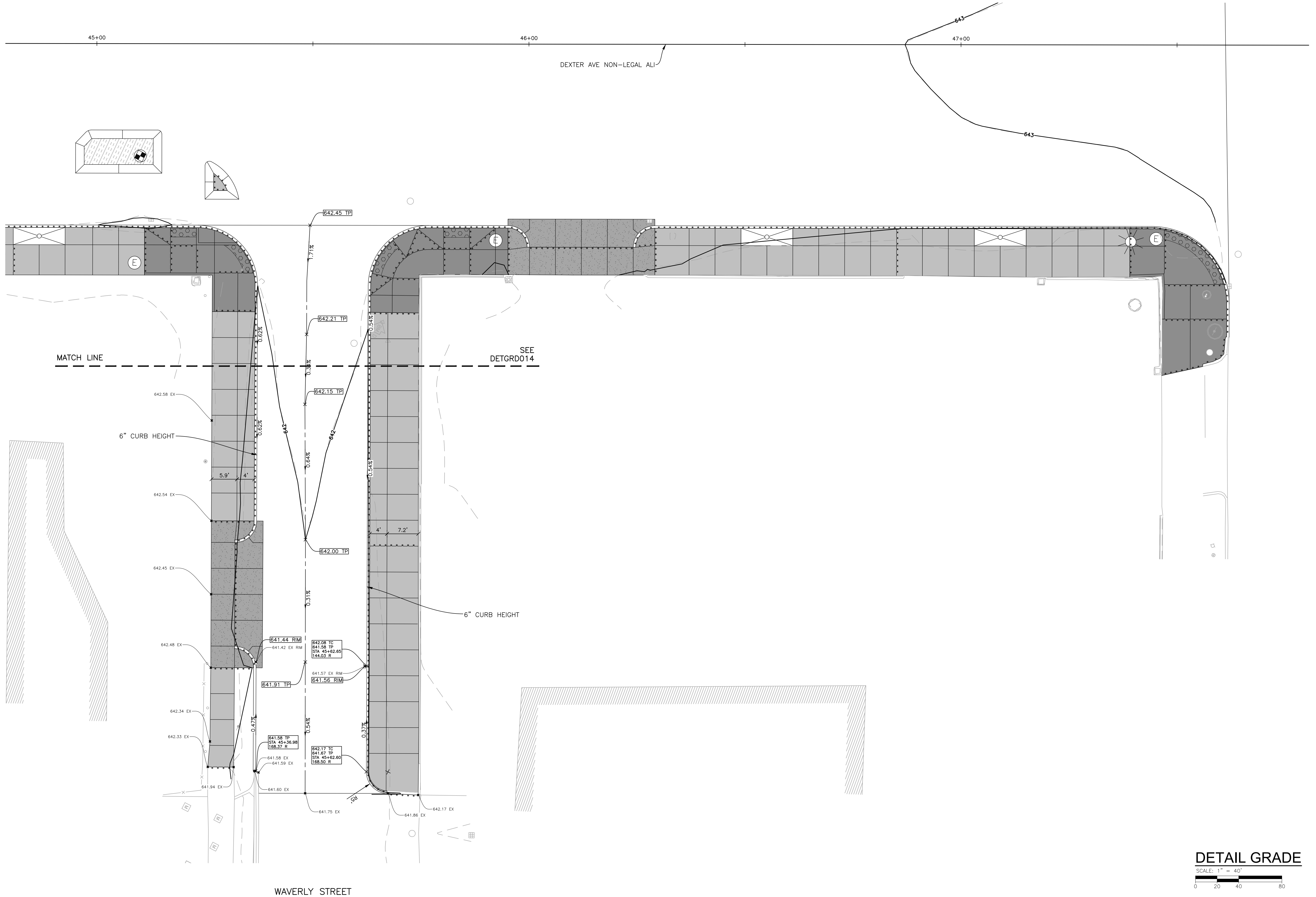
**DETAIL GRADE**

SCALE: 1" = 40'  
0 20 40 80

DEXTER AVENUE



DEXTER AVENUE



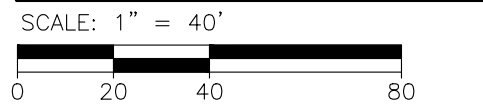
MATCH LINE

SEE  
DETGRD014

6" CURB HEIGHT

6" CURB HEIGHT

**DETAIL GRADE**



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_DETGRD\_014A.DWG LAYOUT: DETGRD014A DATE: 7/20/2023 TIME: 9:48:39 AM USER: AOFRANZON



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By AOF  
 Designer AOF  
 Reviewer SJP/DPE  
 Manager KK3

Hard copy is intended to be  
 24"x36" when plotted. Scale(s)  
 indicated and graphic quality may  
 not be accurate for any other size.

PROJECT NO.

191190

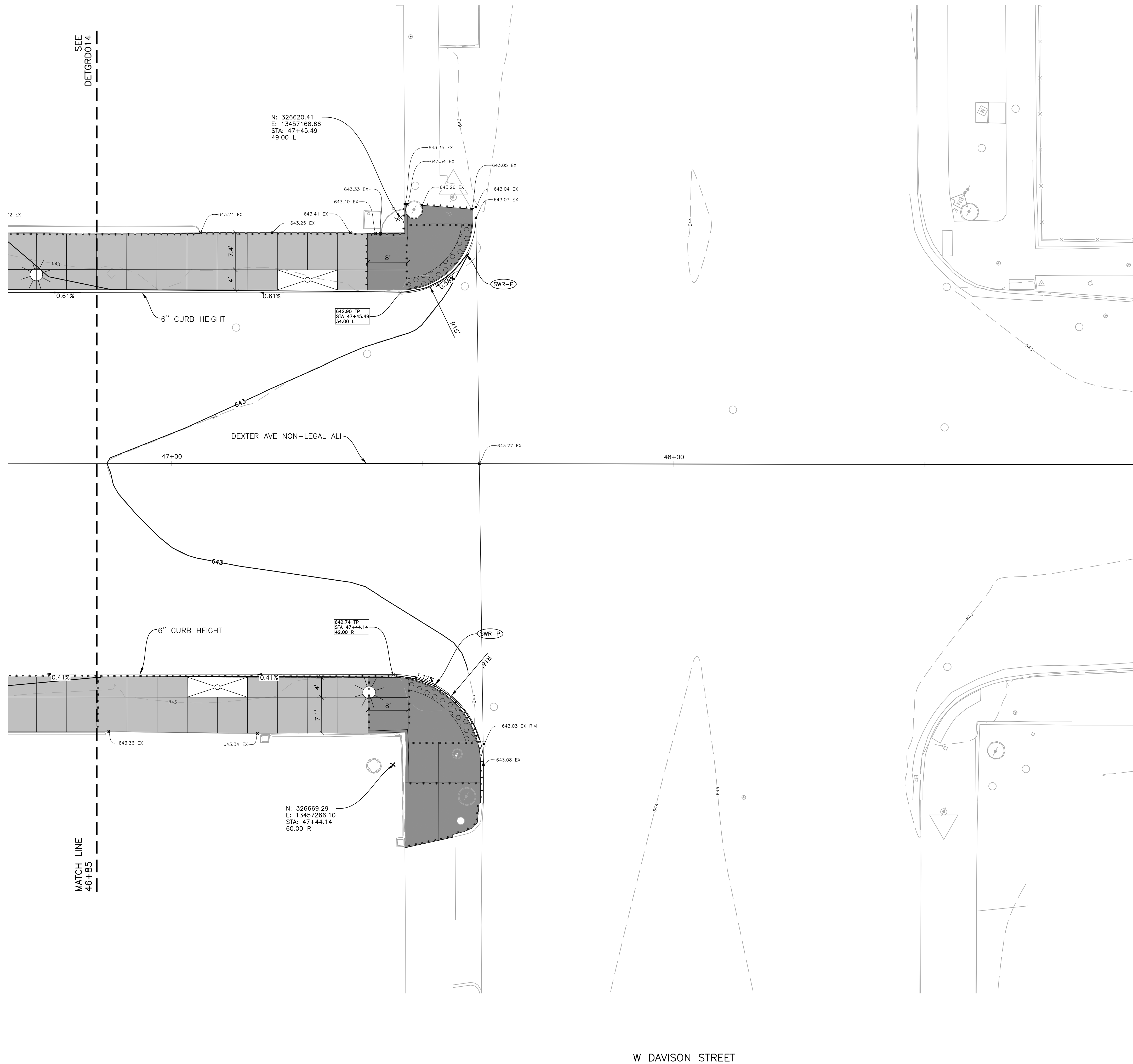
SHEET NO.

56

DETGRD014A

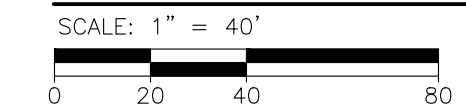
© Copyright 2023  
All Rights Reserved





W DAVISON STREET

**DETAIL GRADE**



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	AOF
Designer	AOF
Reviewer	SJP/DPE
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

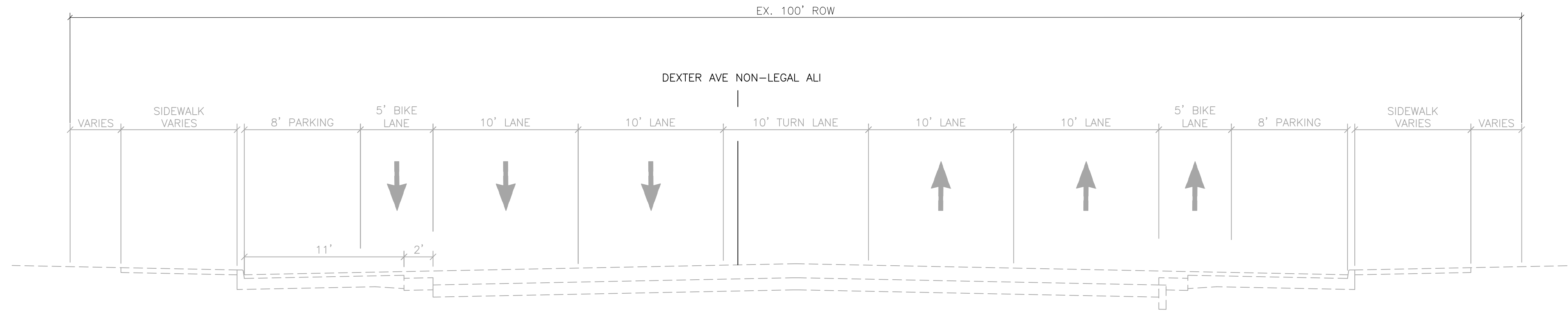
PROJECT NO.

191190

SHEET NO.

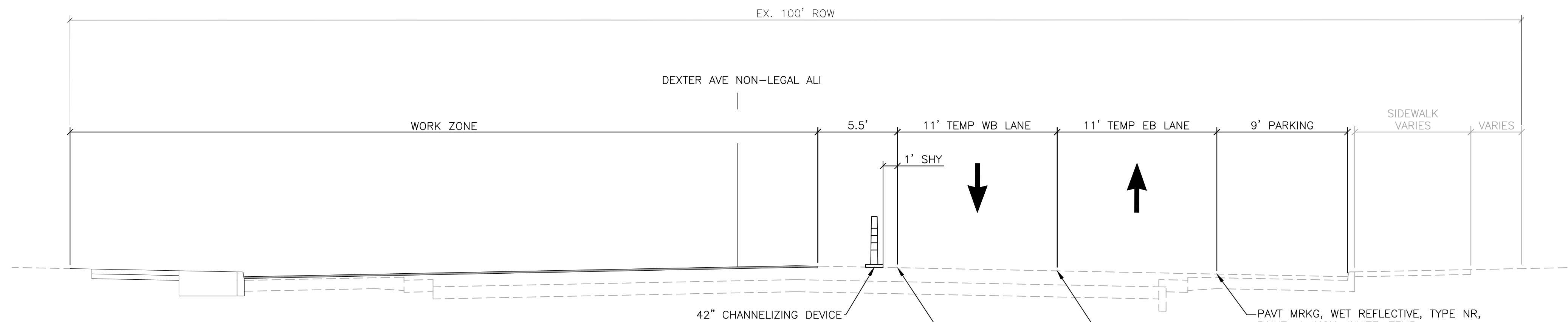
57

DETGRD015



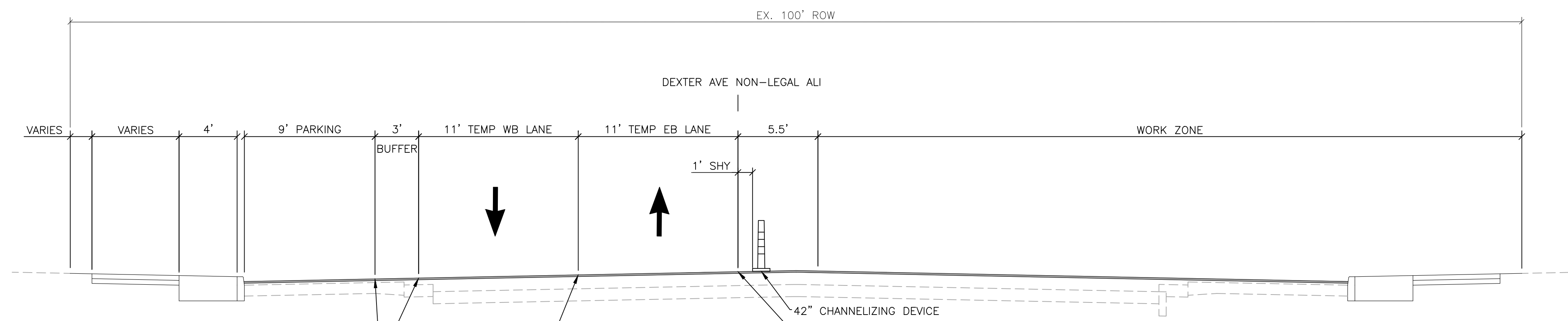
**EXISTING DEXTER AVE NORMAL SECTION**

APPLIES TO:  
DEXTER AVE NON LEGAL ALI  
STA 5+86.00 (POB) TO STA 47+61.30 (POE)



**STAGE 1**

APPLIES TO:  
DEXTER AVE NON LEGAL ALI  
STA 5+86.00 (POB) TO STA 47+61.30 (POE)



**STAGE 2**

APPLIES TO:  
DEXTER AVE NON LEGAL ALI  
STA 5+86.00 (POB) TO STA 47+61.30 (POE)

**MAINTAINING TRAFFIC TYPICALS**

SCALE: NO SCALE

**REVISIONS**

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

58

MTTYP001

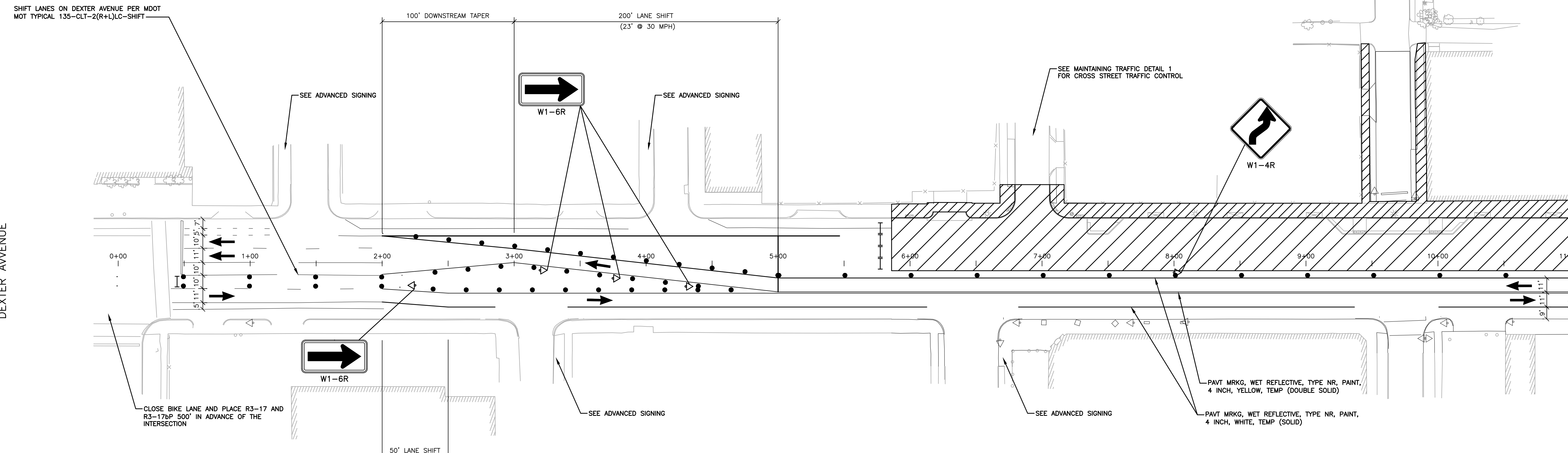
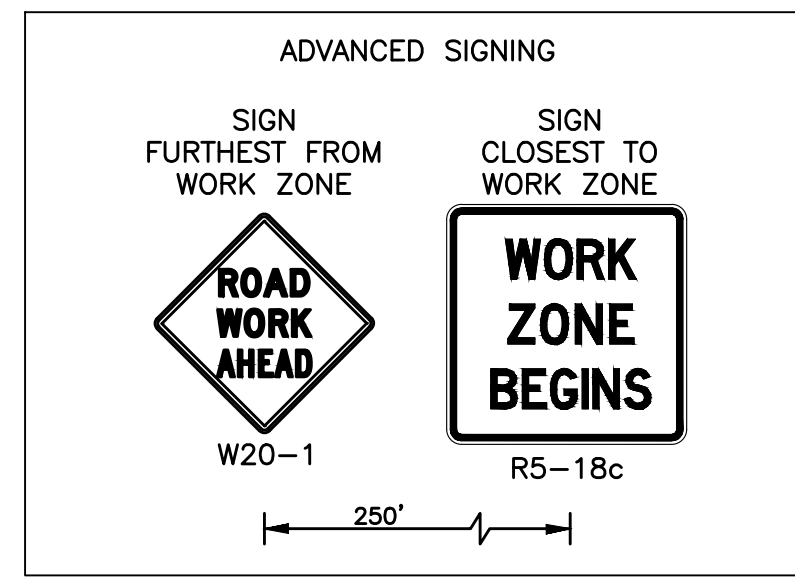


HUMPHREY STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



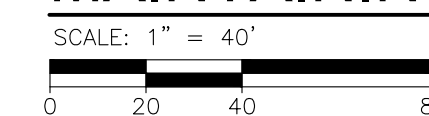
NOTES

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTD001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

MAINTAINING TRAFFIC - STAGE 1



PLOT INFO: Z:\2018\191190\CADD\CD191190\_MTS1G\_001.DWG LAYOUT: MTS1G101 DATE: 7/20/2023 TIME: 2:40:57 PM USER: MSWALSH

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



SMITHGROUP

500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

59

MTSTG1001

© Copyright 2023 All Rights Reserved

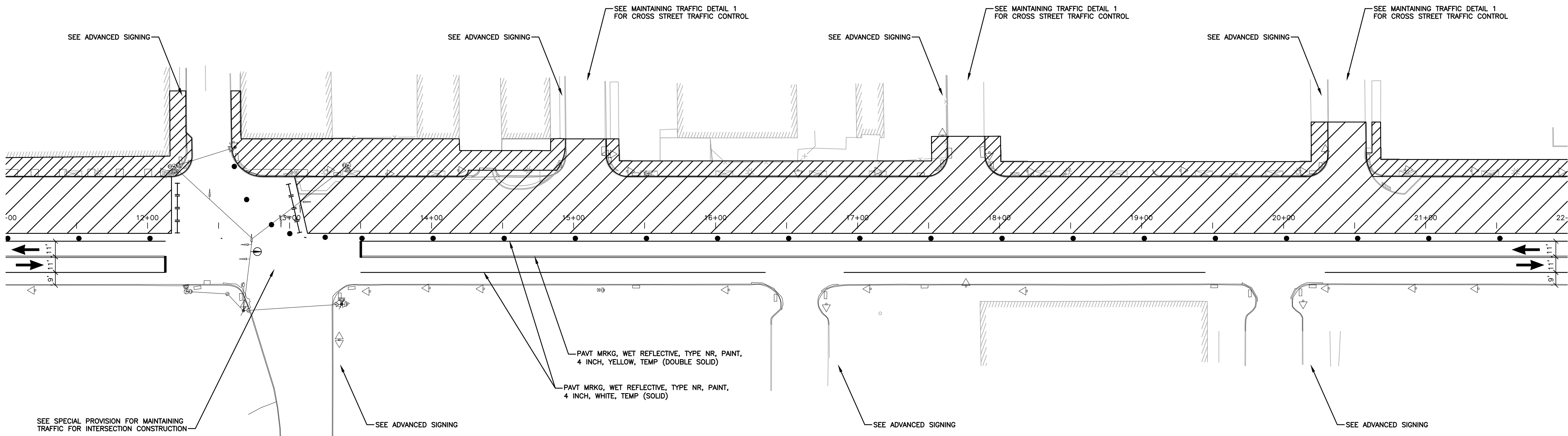
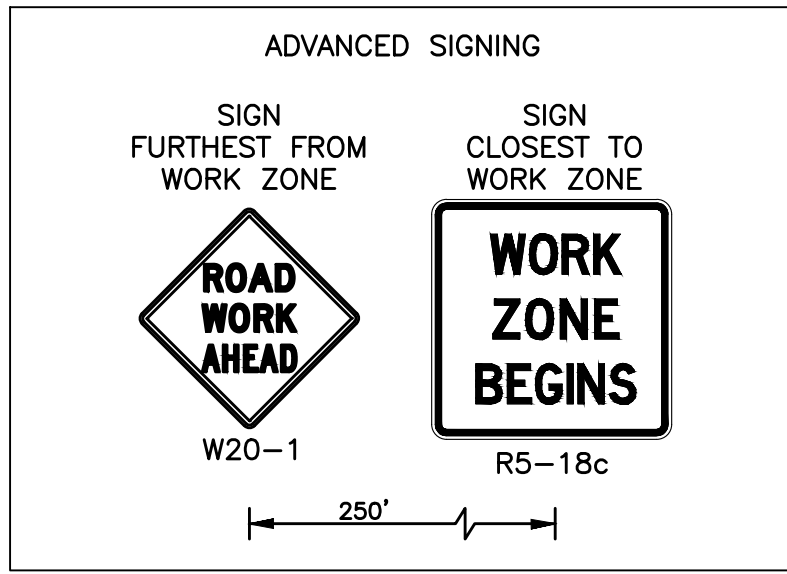


ELMHURST STREET

DUANE STREET

MONTEREY STREET

RIGHTON STREET



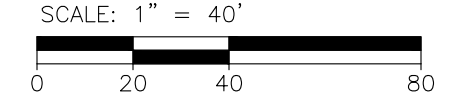
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTD001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 1**



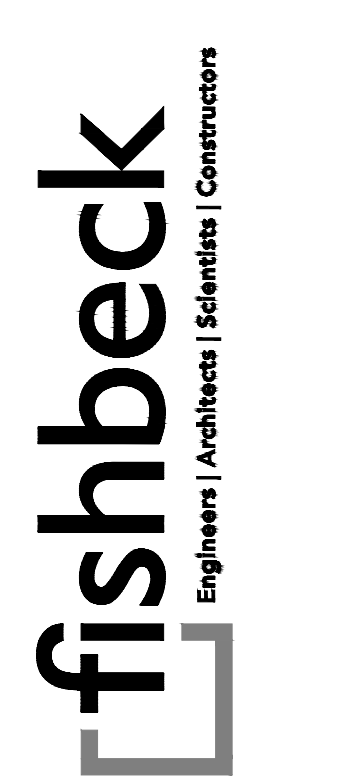
DEXTER AVENUE

DEXTER AVENUE

ELMHURST STREET

MONTEREY STREET

RIGHTON STREET



**SMITHGROUP**  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**  
Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**60**

**MTSTG1002**

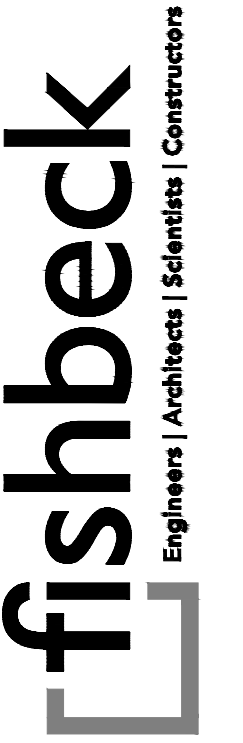
PLOT INFO: Z:\2018\191190\CADD\CD\191190\_MTS1G\_002.DWG LAYOUT: MTS1G1002 DATE: 7/20/2023 TIME: 2:41:26 PM USER: MSW\ASH



CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



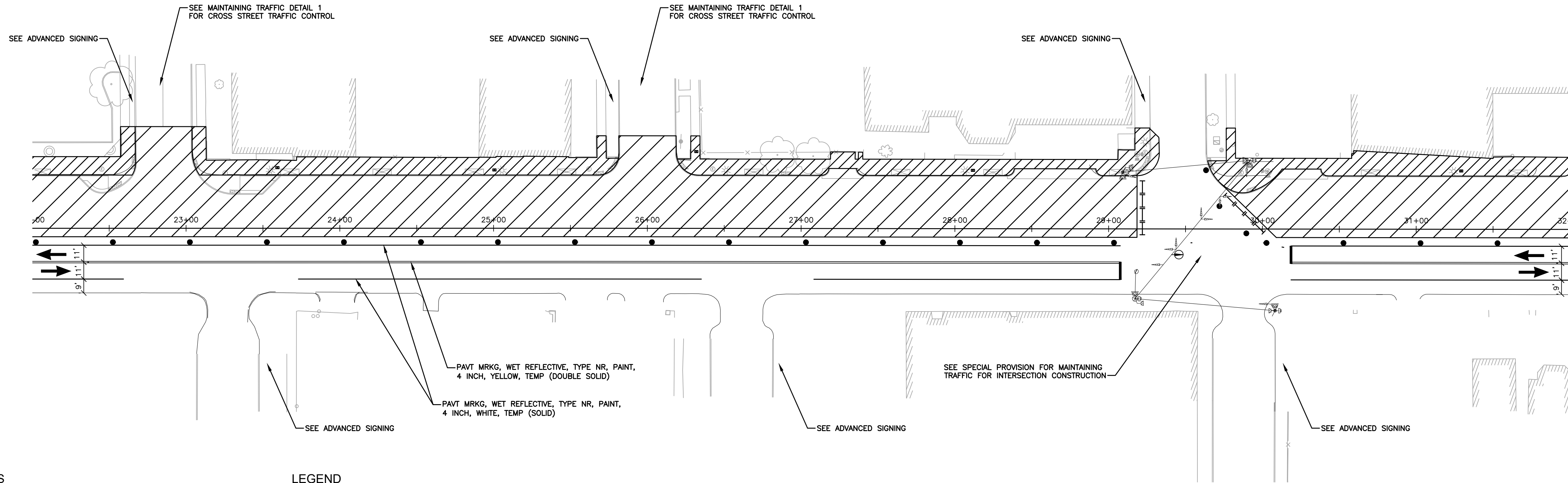
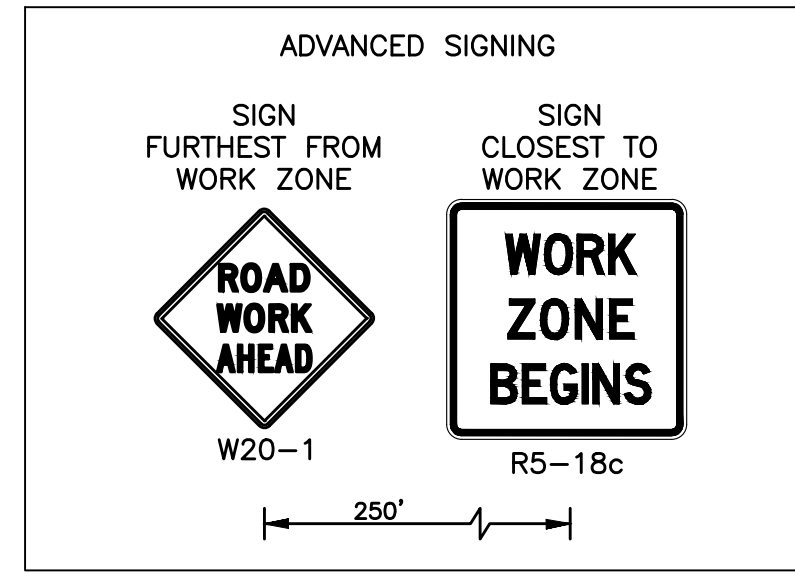
**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape



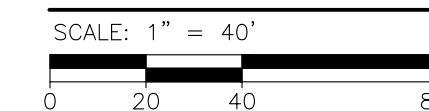
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTD001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 1**



PLOT INFO: Z:\2018\191190\CADD\CD191190\_MTS1G\_003.DWG LAYOUT: MTS1G1003 DATE: 7/20/2023 TIME: 2:42:00 PM USER: MSWALSH

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

61

MTSTG1003

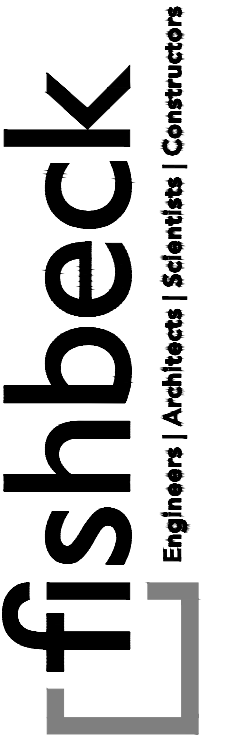
© Copyright 2023  
All Rights Reserved



LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



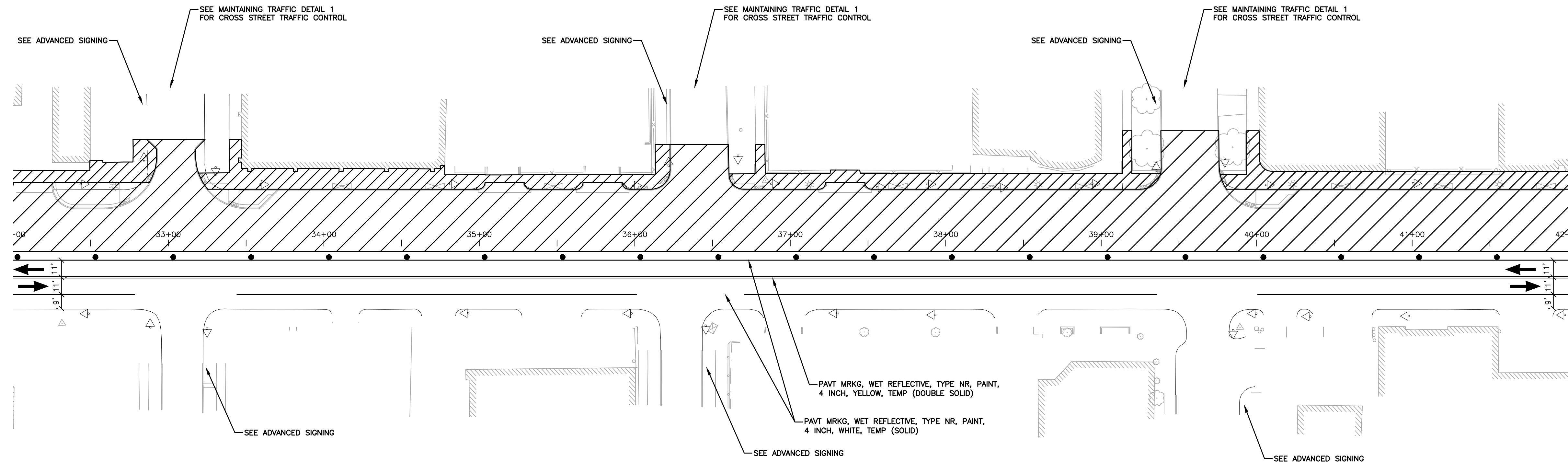
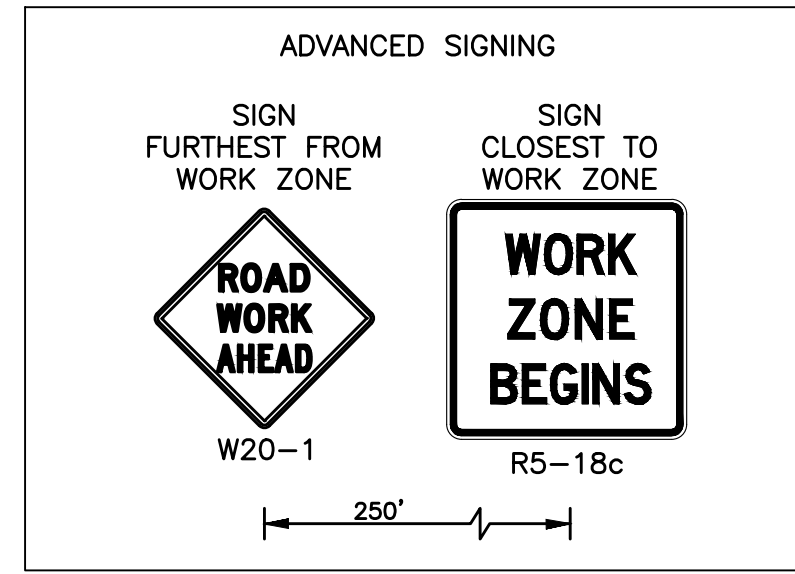
**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape



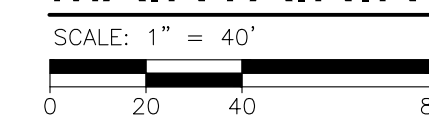
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTDET001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 1**



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_MTS1G\_004.DWG LAYOUT: MTS1G1004 DATE: 7/20/2023 TIME: 2:42:25 PM USER: MSW\ASH

LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

62

MTSTG1004

© Copyright 2023  
All Rights Reserved

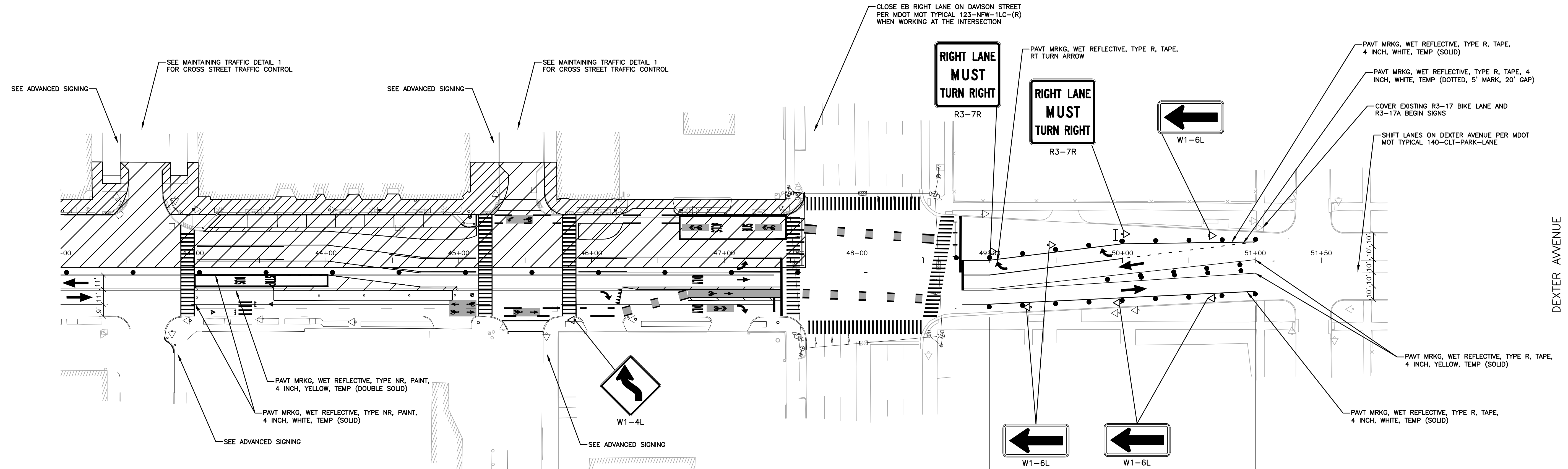
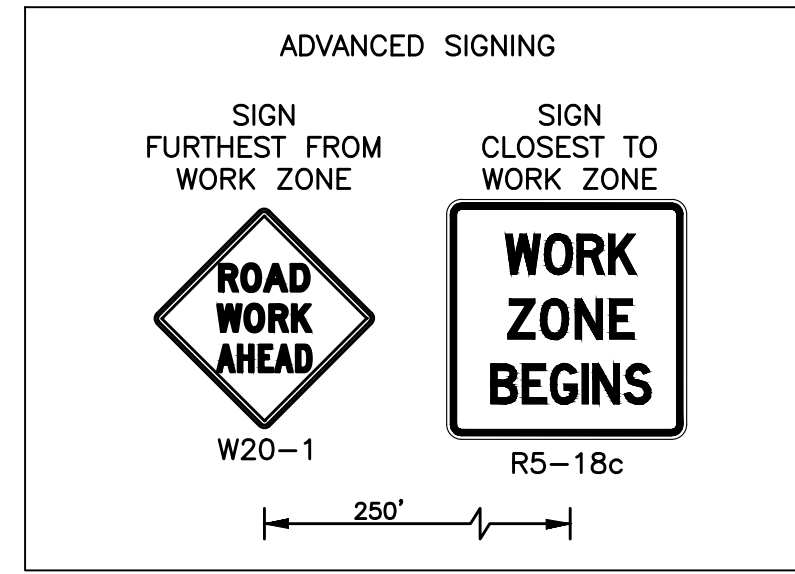


TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS STREET



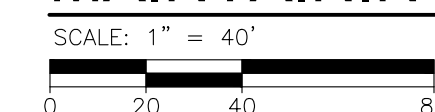
NOTES

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTD001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

MAINTAINING TRAFFIC - STAGE 1



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_MTS1G\_005.DWG LAYOUT: MTS1G1005 DATE: 7/20/2023 TIME: 2:42:54 PM USER: MSW\ASH



SMITHGROUP

500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
63

MTSTG1005

© Copyright 2023 All Rights Reserved

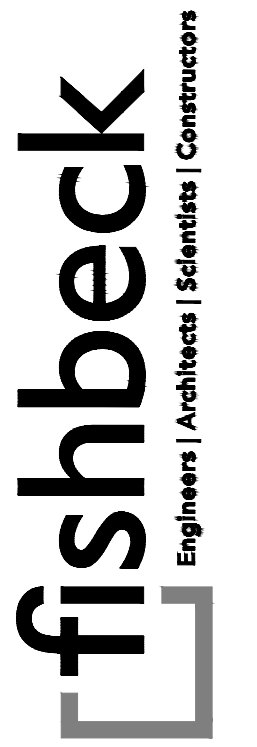


HUMPHREY STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



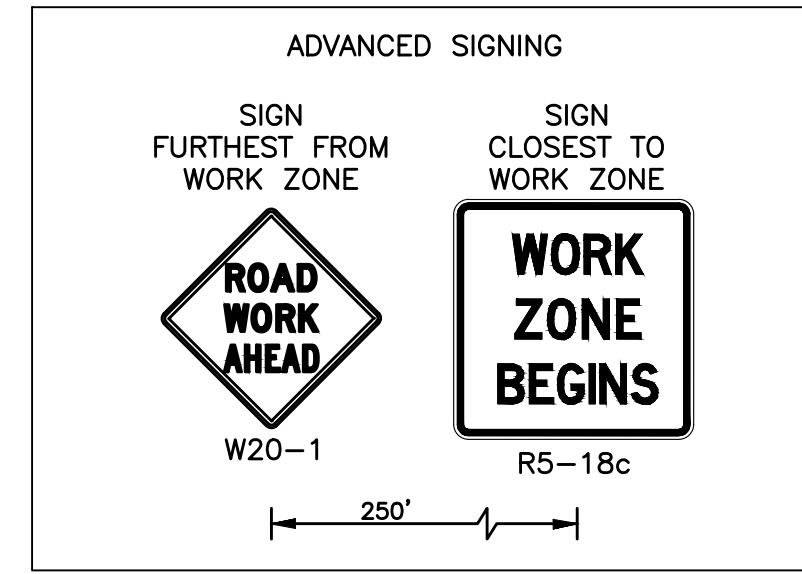
SMITHGROUP

500 GRISWOLD SUITE 1700 DETROIT, MI 48266 313.993.3600 www.smithgroup.com

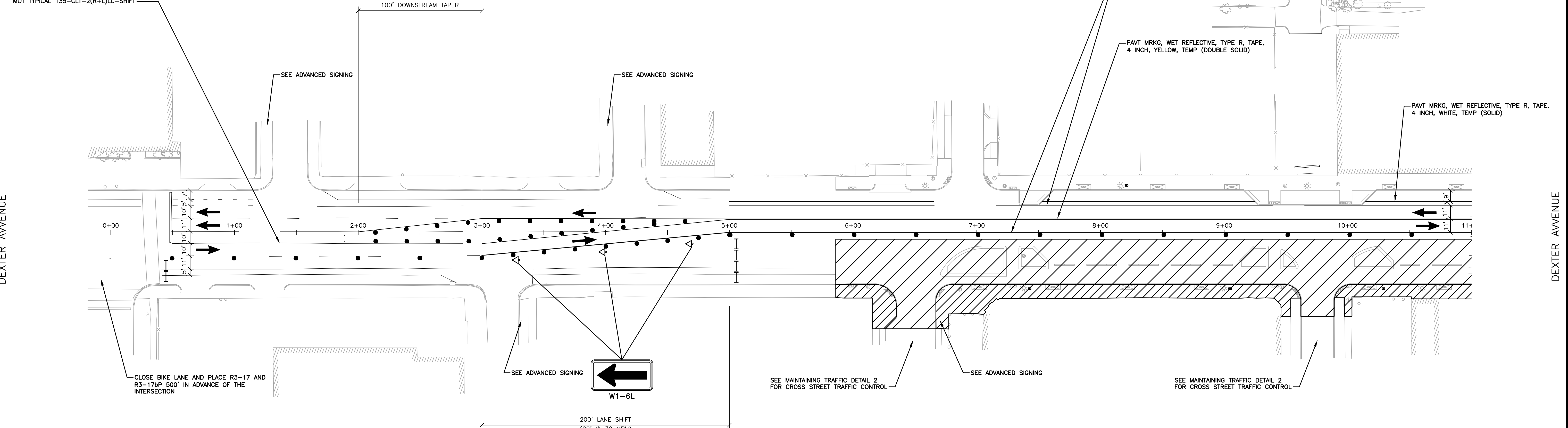


City of Detroit

Dexter Avenue Streetscape



SHIFT LANES ON DEXTER AVENUE PER MDOT MOT TYPICAL 135-CLT-2(R+L)LC-SHIFT



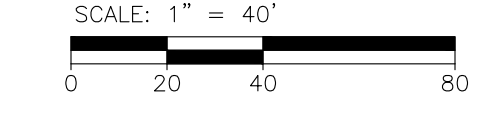
NOTES

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTD001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

MAINTAINING TRAFFIC - STAGE 2



PLOT INFO: Z:\2016\191190\CADD\CD\191190\_MTS1G2\_001.DWG LAYOUT: MTS1G2001 DATE: 7/20/2023 TIME: 2:43:52 PM USER: MSW\LSH

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO. 191190

SHEET NO. 64

MTSTG2001

© Copyright 2023 All Rights Reserved



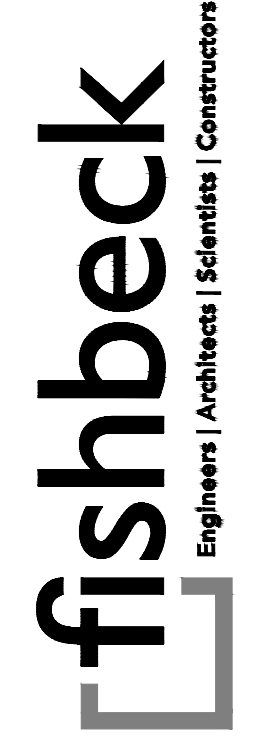


ELMHURST STREET

DUANE STREET

MONTEREY STREET

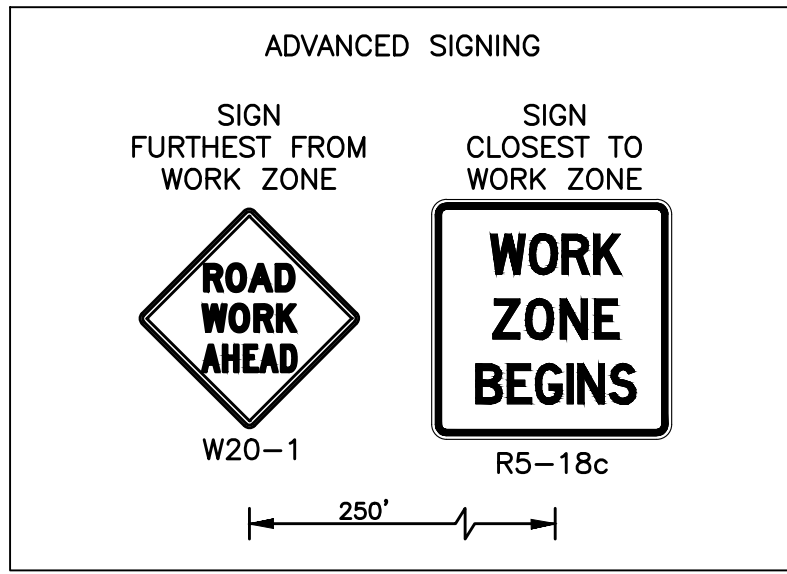
RIGHTON STREET



**SMITHGROUP**  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com

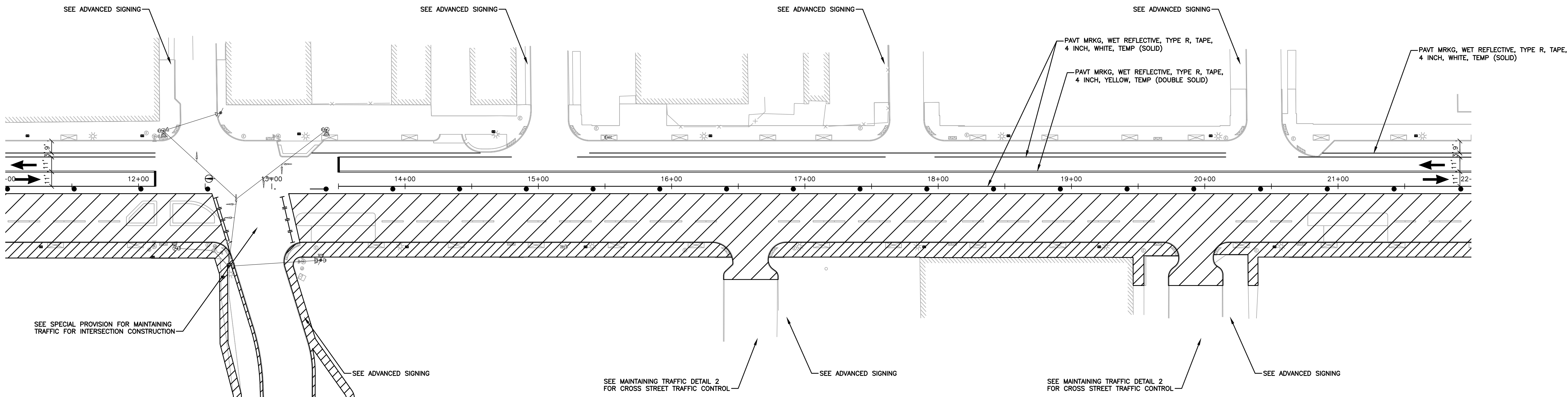


**City of Detroit**  
Dexter Avenue Streetscape



DEXTER AVENUE

DEXTER AVENUE



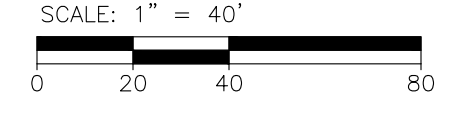
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTDET001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 2**



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_MTS1G2\_002.DWG LAYOUT: MTS1G2002 DATE: 7/20/2023 TIME: 2:43:55 PM USER: MSW\LSH

ELMHURST STREET

MONTEREY STREET

RIGHTON STREET

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**65**

**MTSTG2002**

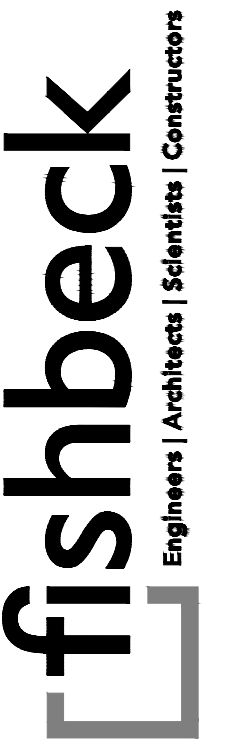
© Copyright 2023  
All Rights Reserved



CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



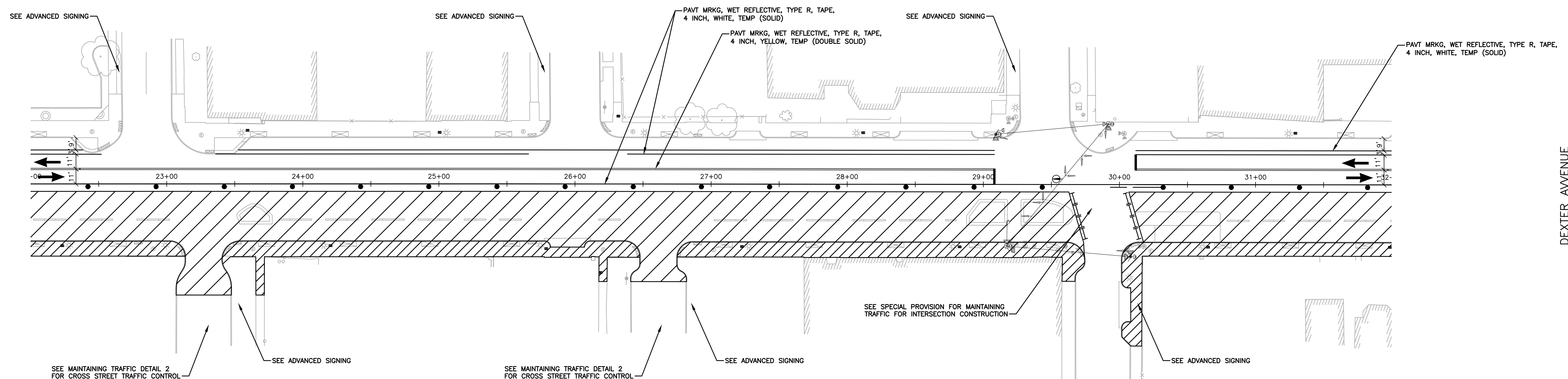
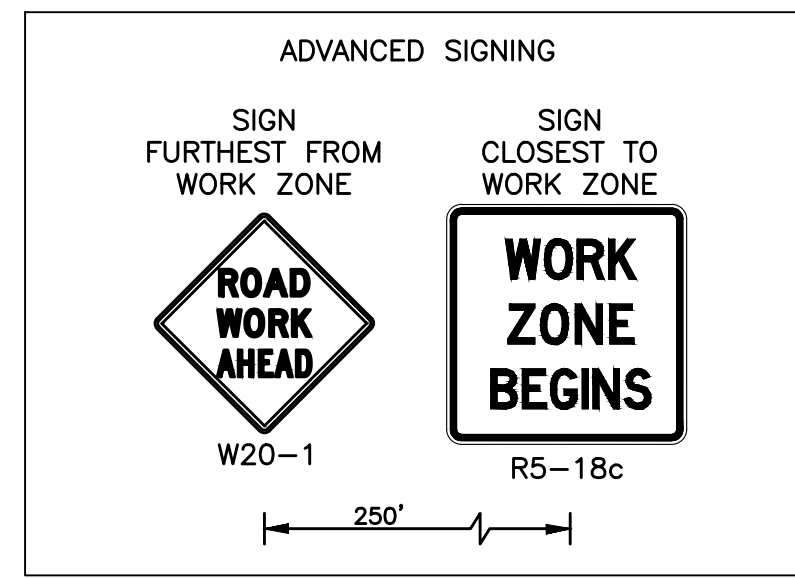
**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape



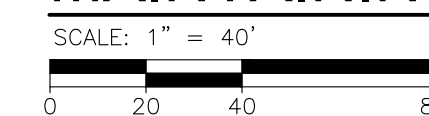
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTDET001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP."
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 2**



PLOT INFO: Z:\2018\191190\CADD\CD191190\_MTS1G2\_005.DWG LAYOUT: MTS1G2003 DATE: 7/20/2023 TIME: 2:44:21 PM USER: MSW\LSH

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

66

MTSTG2003

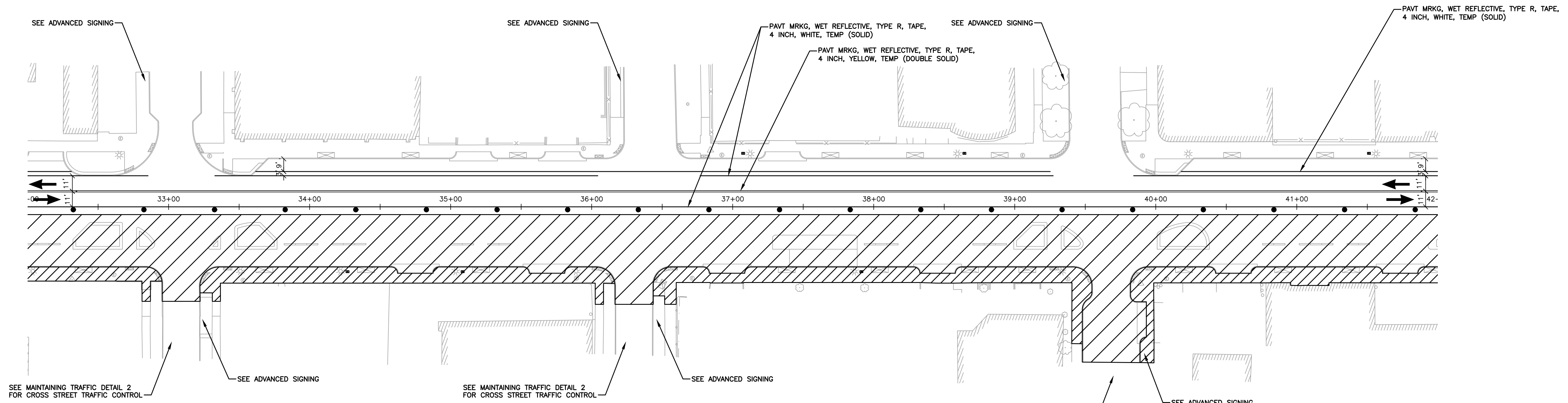
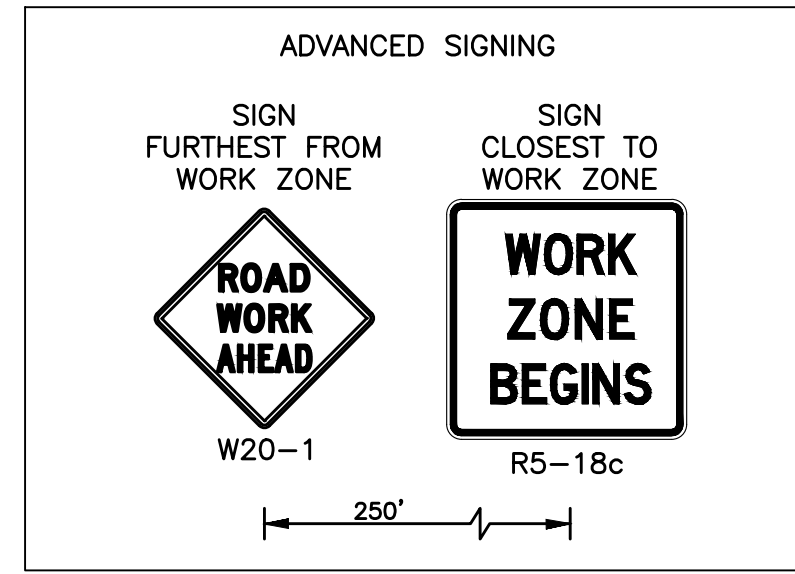
© Copyright 2023  
All Rights Reserved



LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



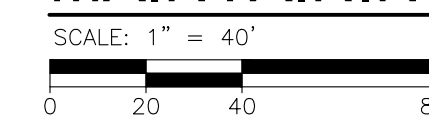
**NOTES**

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTDET001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTY001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

**LEGEND**

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

**MAINTAINING TRAFFIC - STAGE 2**



DEXTER AVENUE

DEXTER AVENUE

LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

67

MTSTG2004

© Copyright 2023  
All Rights Reserved

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MTSIG\_004.DWG LAYOUT: MTSIG2004 DATE: 7/20/2023 TIME: 2:44:53 PM USER: MSW\LSH

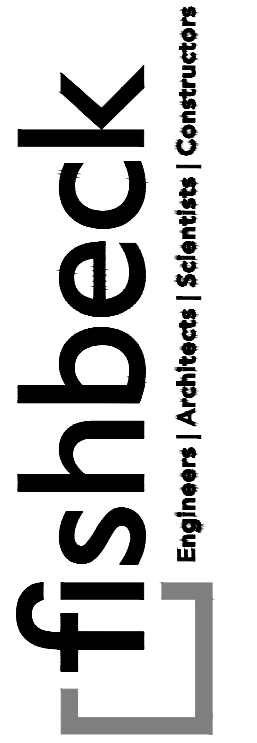


TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS STREET



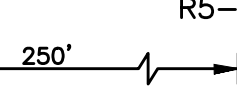
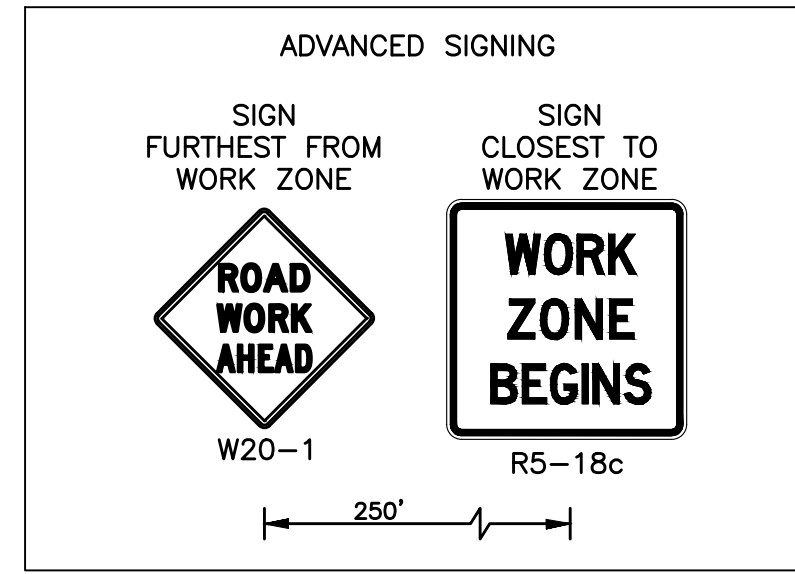
SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape



SEE ADVANCED SIGNING

SEE ADVANCED SIGNING

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (DOUBLE SOLID)

CLOSE EB RIGHT LANE ON DAVISON STREET PER MDOT MOT TYPICAL 123-NW-1LC-(R) WHEN WORKING AT THE INTERSECTION

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, RT TURN ARROW

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (DOTTED, 5" MARK, 20' GAP)

COVER EXISTING R3-17 BIKE LANE AND R3-17A BEGIN SIGNS

SHIFT LANES ON DEXTER AVENUE PER MDOT MOT TYPICAL 140-CLT-PARK-LANE

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID)

NOTES

1. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
2. WORK SHALL CONFORM TO THE CURRENT MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, MDOT STANDARD PLANS, MDOT SPECIAL PROVISIONS, AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
3. PROTECT EXISTING TRAFFIC SIGNS WITHIN PROJECT LIMITS. SIGNS REQUIRING REMOVAL DUE TO CONSTRUCTION ARE TO BE SALVAGED AND REINSTALLED IN ACCORDANCE WITH CURRENT MDOT SPECIFICATIONS. WORK TO BE INCLUDED IN THE COST OF THE PROJECT.
4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN THE MAINTAINED TRAFFIC LANES UNLESS NOTED OTHERWISE.
5. SEE SHEET MTDET001 FOR SIDE STREET CLOSURE SIGNING.
6. SEE SHEET MTTYP001 FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.
7. MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES.
8. STOP BARS PAID FOR AS "PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP".
9. SEE SHEET NOTE001 FOR MAINTAINING TRAFFIC QUANTITIES.
10. SEE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR SEQUENCE OF WORK.
11. MAINTAIN ACCESS TO ALL BUS STOPS IN ACCORDANCE WITH THE "CITY OF DETROIT TEMPORARY BUS STOP" SPECIAL PROVISION. IF BUS STOP CLOSURES ARE NEEDED AT ANY TIME DURING CONSTRUCTION, COORDINATE WITH THE ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF THE CLOSURE DATE.

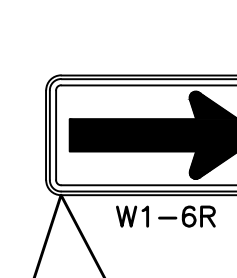
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- TYPE III BARRICADE
- CHANNELIZING DEVICE, 42 INCH, SPACED AT 50' ON TANGENTS, 25' ON TAPERS, AND 10' WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED
- TEMP CONSTRUCTION SIGN
- LIGHTED ARROW, TYPE C

SEE MAINTAINING TRAFFIC DETAIL 2 FOR CROSS STREET TRAFFIC CONTROL

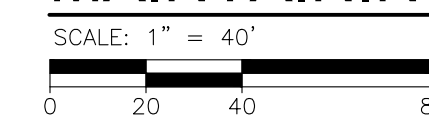
SEE MAINTAINING TRAFFIC DETAIL 2 FOR CROSS STREET TRAFFIC CONTROL

SEE ADVANCED SIGNING



200' LANE SHIFT (22' @ 30 MPH)

MAINTAINING TRAFFIC - STAGE 2



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MTS1G2\_005.DWG LAYOUT: MTS1G2005 DATE: 7/20/2023 TIME: 2:45:18 PM USER: MSW\LSH

TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS STREET

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

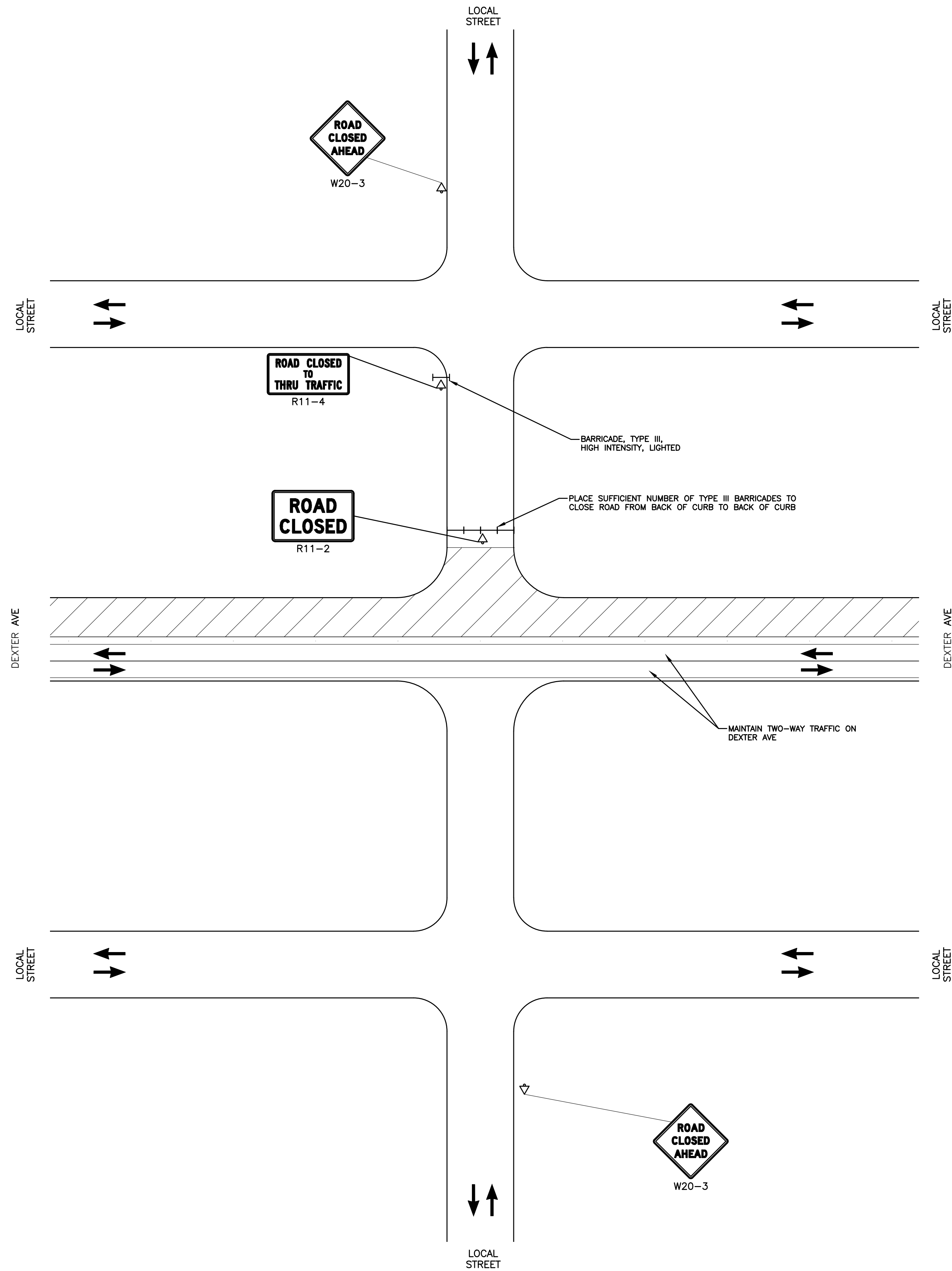
191190

SHEET NO.

68

MTSTG2005

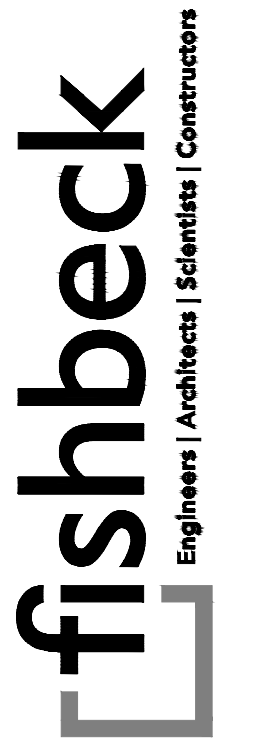
© Copyright 2023 All Rights Reserved



DETAIL 1  
NO SCALE

**MAINTAINING TRAFFIC DETAILS**  
SCALE: NO SCALE

PLOT INFO: Z:\2019\191190\CADD\191190\_MTDET\_001.DWG LAYOUT: MTDET001 DATE: 7/20/2023 TIME: 2:45:25 PM USER: MSWALSH



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.983.3600  
www.smithgroup.com



**City of Detroit**

Dexter Avenue Streetscape

REVISIONS

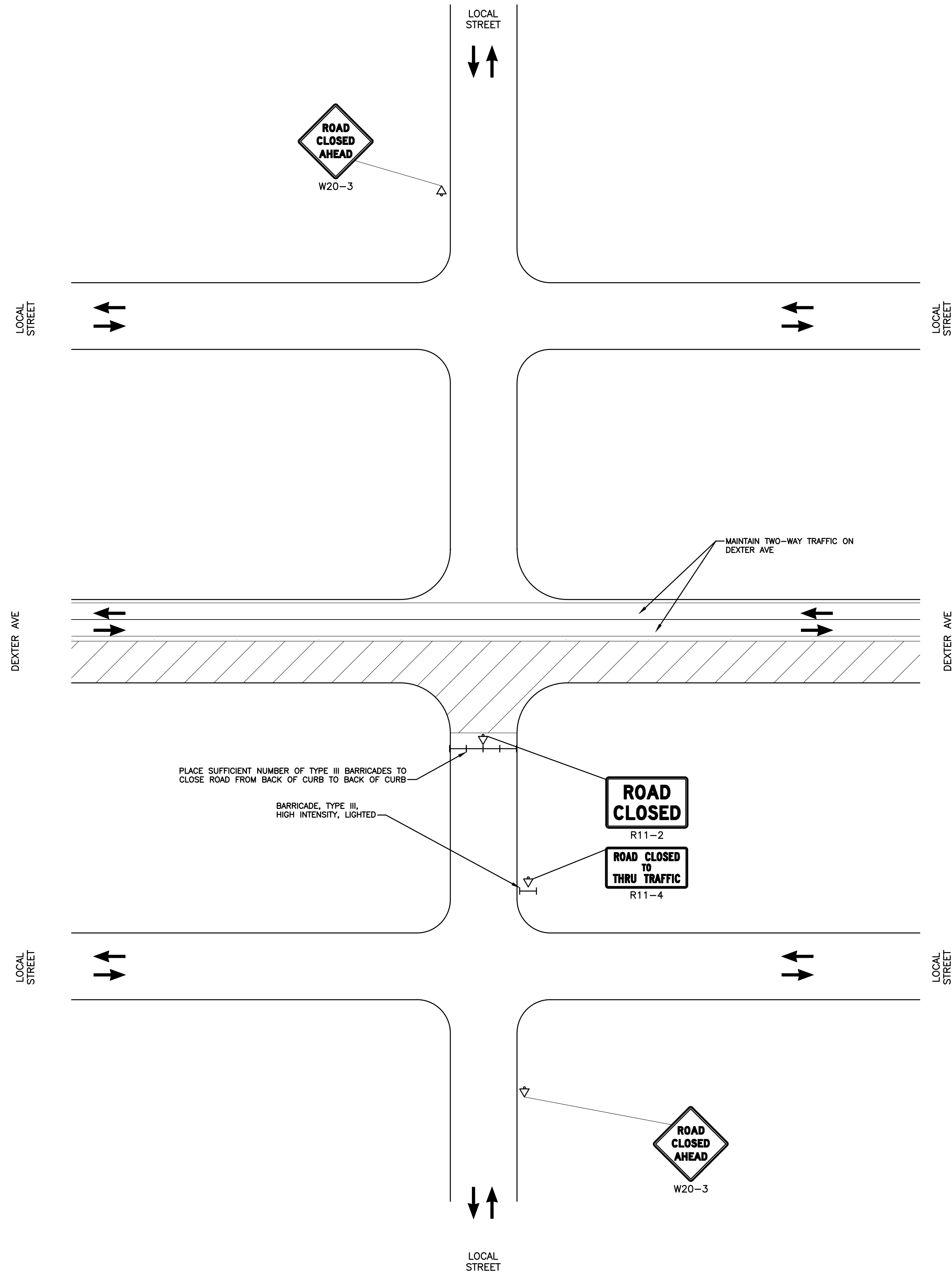
07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

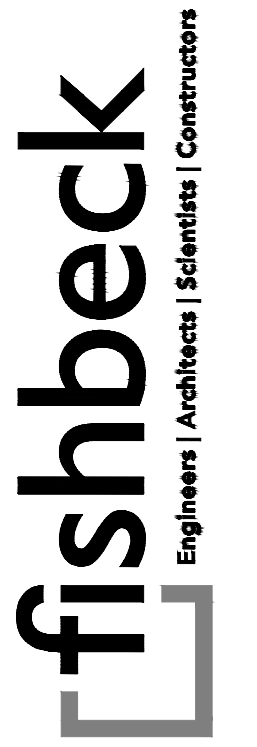
SHEET NO.  
**69**  
**MTDET001**



DETAIL 2  
NO SCALE

**MAINTAINING TRAFFIC DETAILS**  
SCALE: NO SCALE

PLOT INFO: Z:\2019\191190\CADD\191190\_MTDET\_002.DWG LAYOUT: MTDET002 DATE: 7/20/2023 TIME: 2:45:35 PM USER: MSWALSH



**SMITHGROUP**  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.983.3600  
www.smithgroup.com



**City of Detroit**  
Dexter Avenue Streetscape

REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

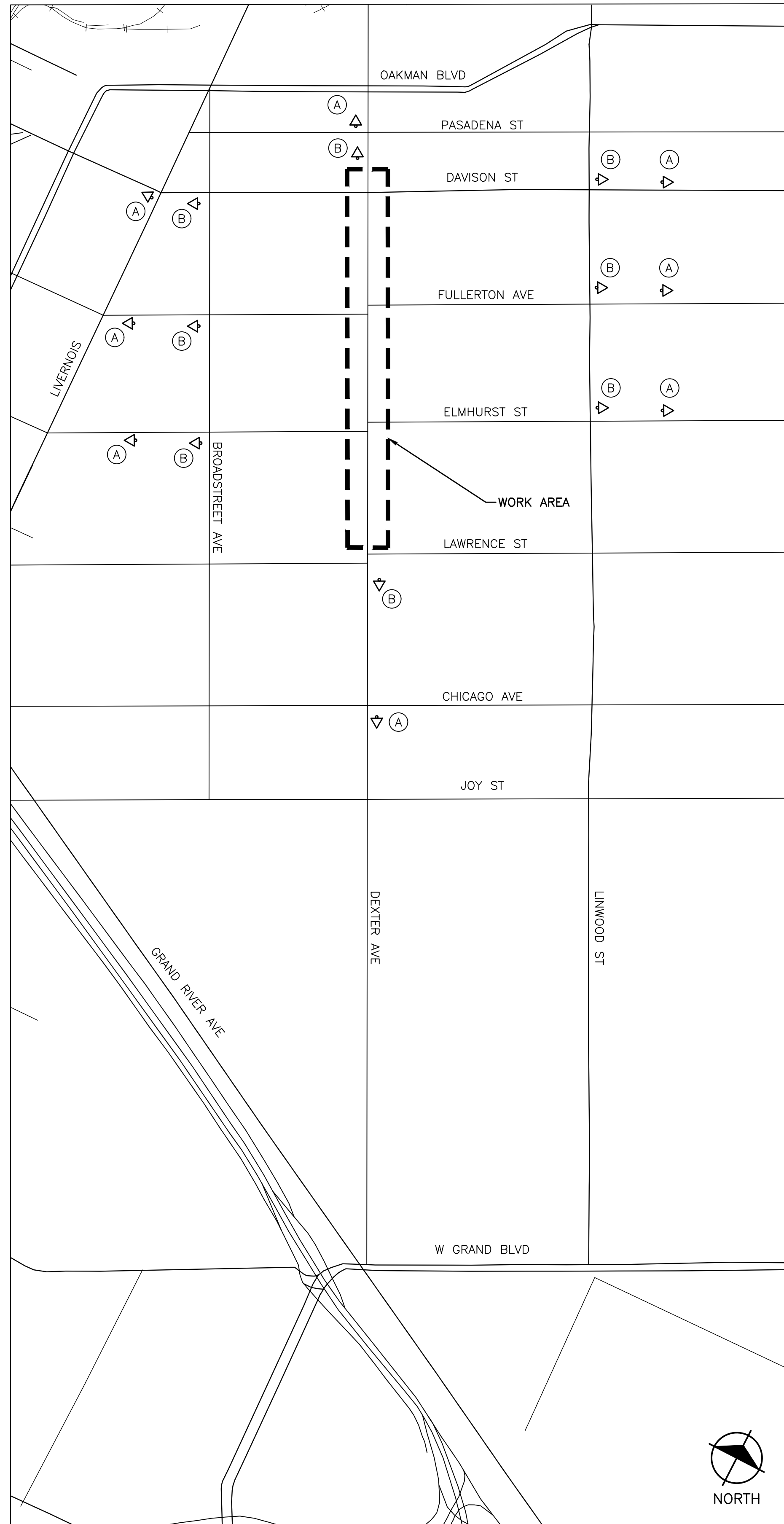
Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

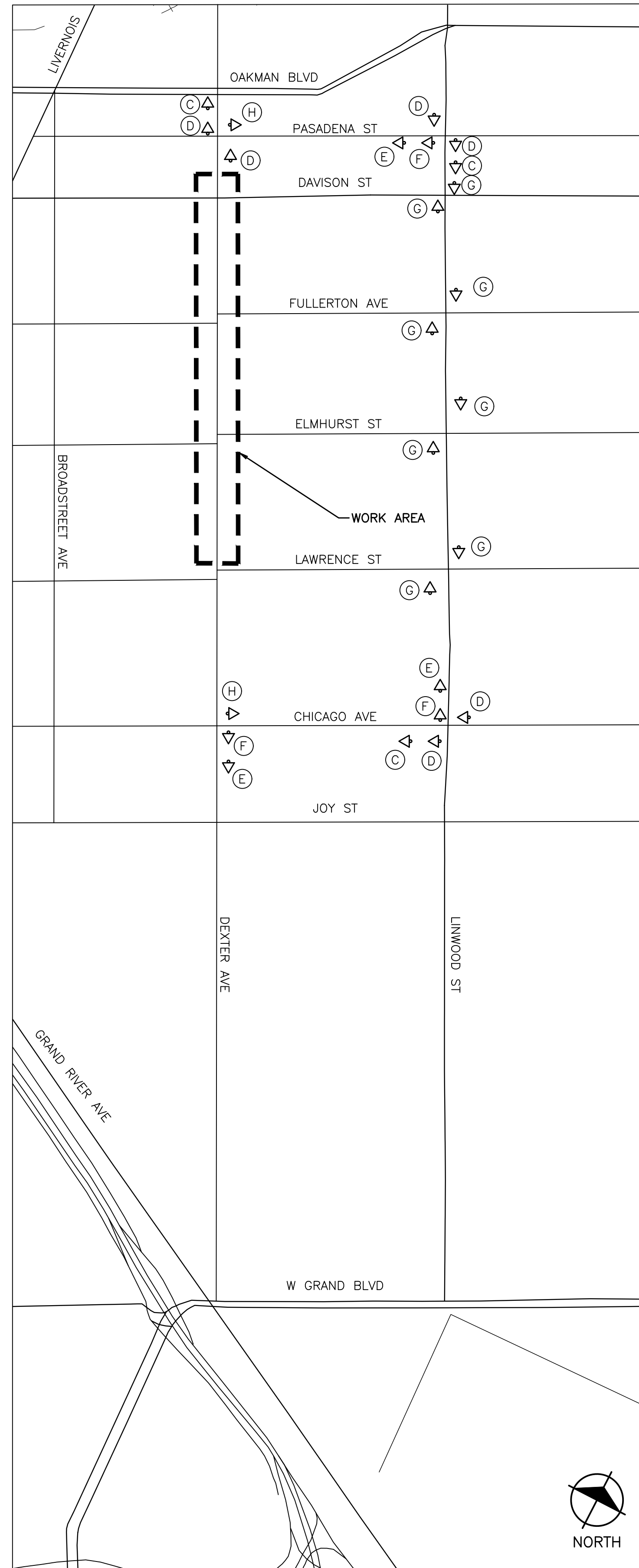
PROJECT NO.  
**191190**

SHEET NO.  
**70**  
**MTDET002**

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MTDET003\_LAYOUT.MXD DATE: 7/20/2023 TIME: 2:46:53 PM USER: MSW\LSH



DETAIL 3 - ADVANCED SIGNING  
NO SCALE



DETAIL 4 - ALTERNATE ROUTE SIGNING  
NO SCALE

**DEXTER  
ROAD WORK  
CLEMENTS TO  
HUMPHREY**

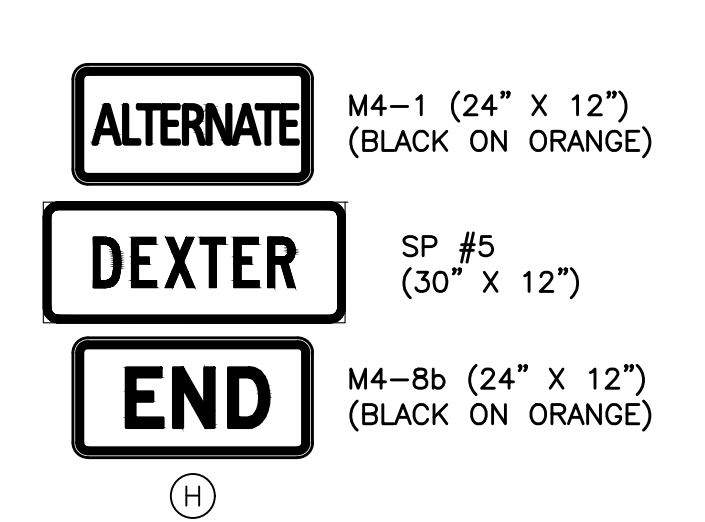
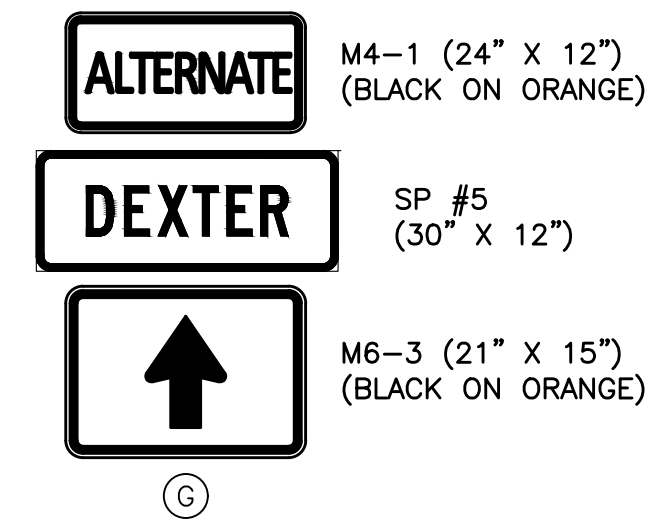
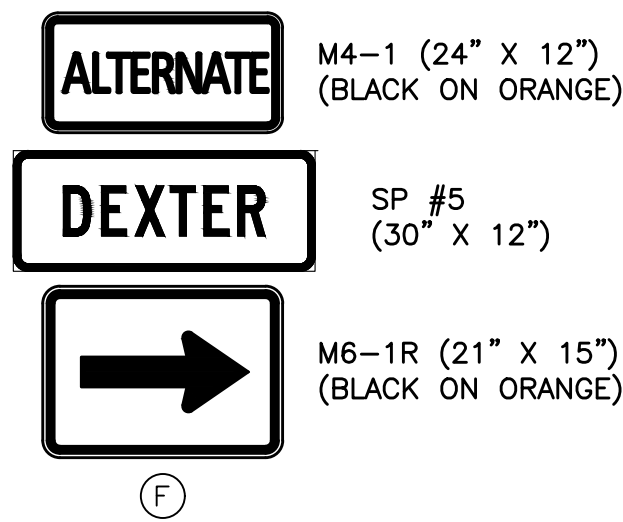
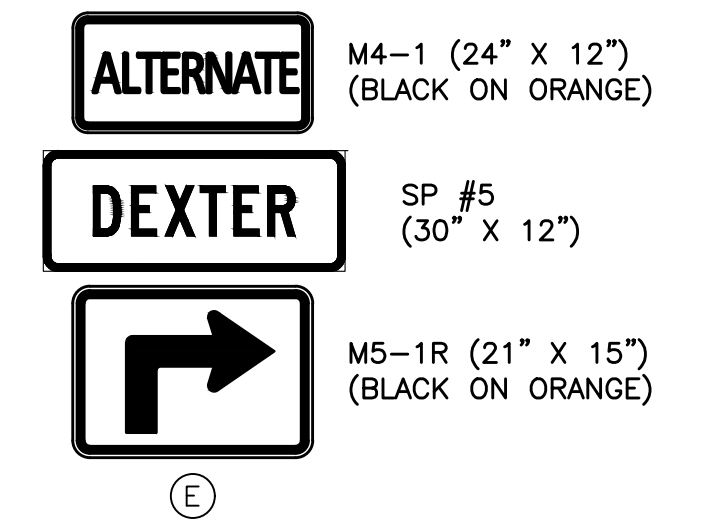
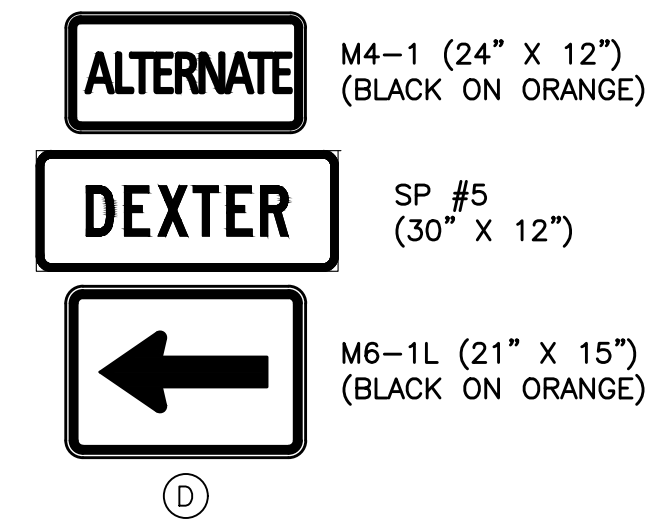
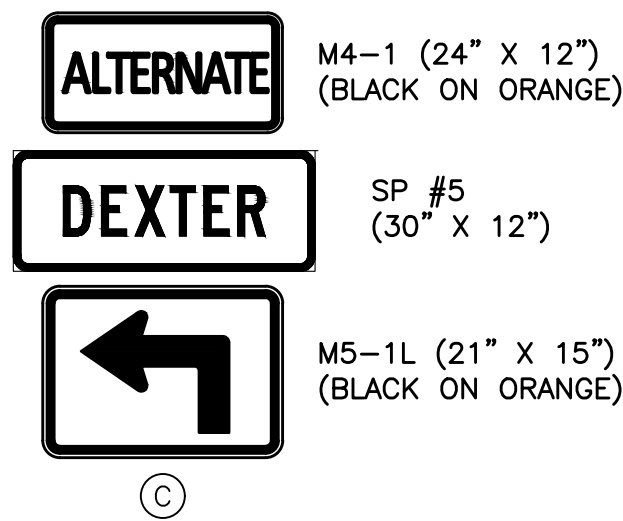
SP #3  
(48" X 36")

(A)

**ALL DEXTER  
BUSINESSES  
OPEN DURING  
CONSTRUCTION**

SP #4  
(48" X 36")

(B)



MAINTAINING TRAFFIC DETAILS  
NOT TO SCALE



REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

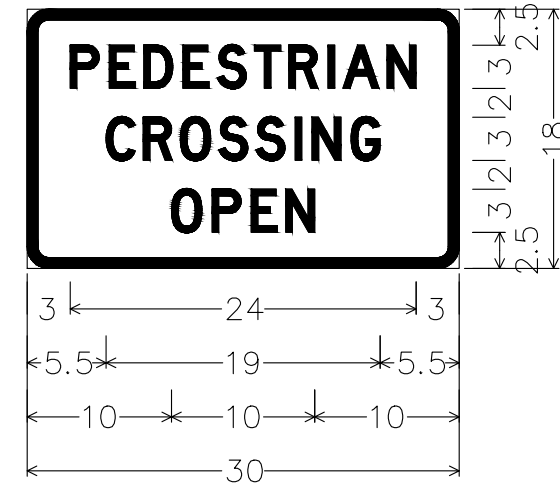
PROJECT NO.

191190

SHEET NO.

71

MTDET003



1.5" Radius, 0.8" Border, Black on Orange;

"PEDESTRIAN", D;

"CROSSING", D;

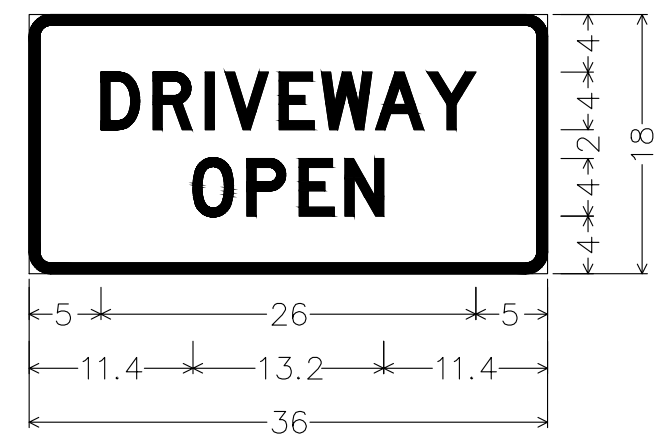
"OPEN", D;

Table of widths and spaces

P	E	D	E	S	T	R	I	A	N								
3.0	2.0	0.7	1.8	0.6	2.0	0.7	1.8	0.6	2.0	0.7	1.8	0.6	2.0	0.7	3.0		
C	R	O	S	S	I	N	G	A	N	C	O	S	S	I	N		
5.5	2.0	0.6	2.0	0.5	2.1	0.6	2.0	0.6	2.0	0.7	0.5	0.7	2.0	0.7	2.0	0.5	5.5
O	P	E	N	O													
10.0	2.1	0.7	2.1	0.7	1.8	0.6	2.0	1.0									

SP #1

SIGN PANEL: TYPE III  
SIGN FACE: B  
COLOR: BLACK LEGEND/BORDER & ORANGE BACKGROUND



1.5" Radius, 0.8" Border, Black on Orange;

"DRIVEWAY", D; "OPEN", D;

Table of widths and spaces

D	R	I	V	E	W	A	Y								
5.0	2.7	0.9	2.7	0.9	0.7	3.0	0.8	2.4	0.5	3.5	0.2	3.4	0.2	3.4	5.0
O	P	E	N												
11.4	2.8	0.9	2.7	1.0	2.4	0.7	2.7	11.4							

SP #2

SIGN PANEL: TYPE III  
SIGN FACE: B  
COLOR: BLACK LEGEND/BORDER & ORANGE BACKGROUND

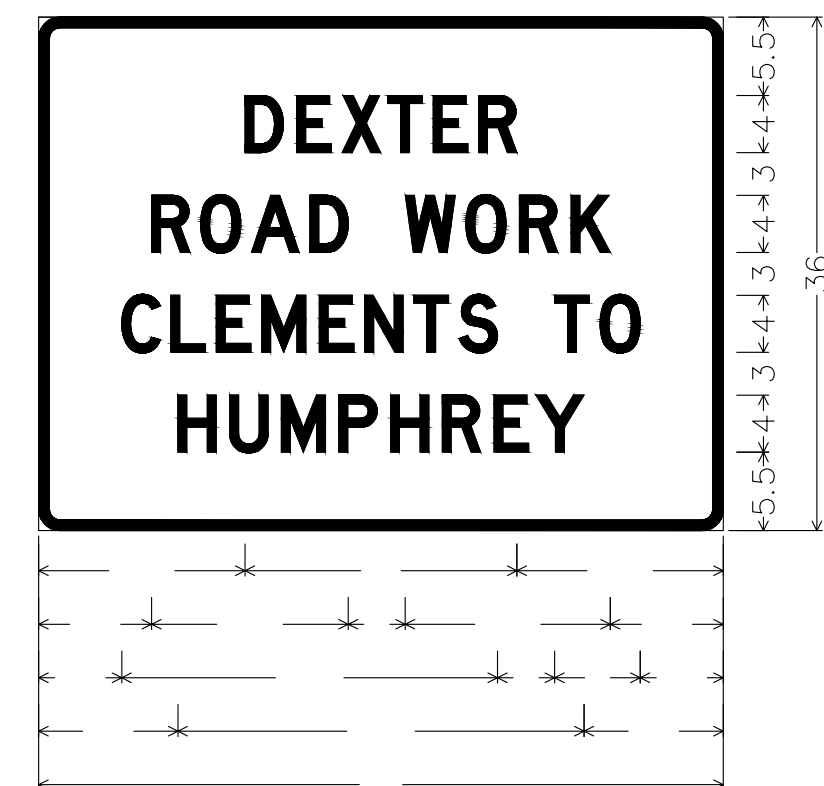
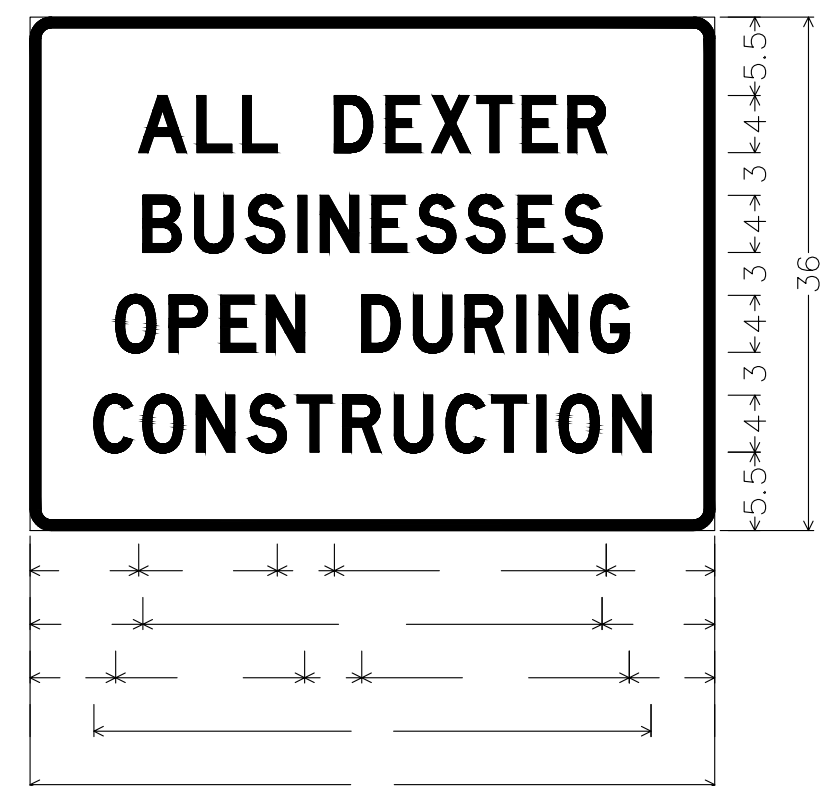


Table of widths and spaces

D	E	X	T	E	R											
14.5	2.7	0.9	2.4	0.8	2.7	0.5	2.4	0.8	2.4	0.7	2.7	14.5				
R	O	A	D													
7.9	2.7	0.8	2.8	0.7	3.4	0.7	2.7									
W	O	R	K													
4.0	3.5	0.8	2.8	0.9	2.7	0.9	2.8	7.9								
C	L	E	M	N	T	S										
5.8	2.7	0.8	2.4	0.8	2.4	0.7	3.1	1.0	2.4	0.8	2.6	0.8	2.4	0.8	2.7	
T	O															
4.0	2.4	0.8	2.8	5.8												
H	U	M	P	H	R	E	Y									
9.8	2.7	0.9	2.7	0.9	3.1	0.9	2.7	1.0	2.7	0.9	2.7	0.9	2.5	0.5	3.3	9.8

SP #3

SIGN PANEL: TYPE III  
SIGN FACE: B  
COLOR: BLACK LEGEND/BORDER & ORANGE BACKGROUND



"OPEN DURING", D; "CONSTRUCTION", D;

Table of widths and spaces

A	L	L																						
7.6	3.4	0.7	2.4	0.8	2.4																			
D	E	X	T	E	R																			
4.0	2.7	1.0	2.4	0.7	2.7	0.5	2.5	0.7	2.7	7.6														
B	U	S	I	N	E	S	S	E	S															
7.9	2.7	0.9	2.7	1.0	2.6	1.0	0.6	0.9	2.7	1.0	2.4	0.8	2.6	0.8	2.7	0.9	2.5	0.7	2.7	7.9				
O	P	E	N																					
6.0	2.8	0.9	2.7	1.0	2.4	0.8	2.6																	
D	U	R	I	N	G																			
4.0	2.7	1.0	2.7	0.9	2.7	0.9	0.7	0.9	2.7	0.9	2.7	6.0												
C	O	N	S	T	R	U	C	T	I	O	N													
4.5	2.7	0.7	2.8	1.0	2.6	1.0	2.7	0.7	2.5	0.7	2.7	0.9	2.7	1.0	2.6	0.5	2.5	0.7	0.7	0.9	2.8	0.9	2.7	4.5

SP #4

SIGN PANEL: TYPE III  
SIGN FACE: B  
COLOR: BLACK LEGEND/BORDER & ORANGE BACKGROUND



Table of widths and spaces

D	E	X	T	E	R							
5.0	2.7	1.1	2.5	0.8	2.9	0.6	2.5	0.8	2.5	0.9	2.7	5.0

SP #5

SIGN PANEL: TYPE III  
SIGN FACE: B  
COLOR: BLACK LEGEND/BORDER & ORANGE BACKGROUND

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_MTD04.DWG LAYOUT: MTD04.DWG DATE: 7/20/2023 TIME: 2:47:04 PM USER: MSWALSH

REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

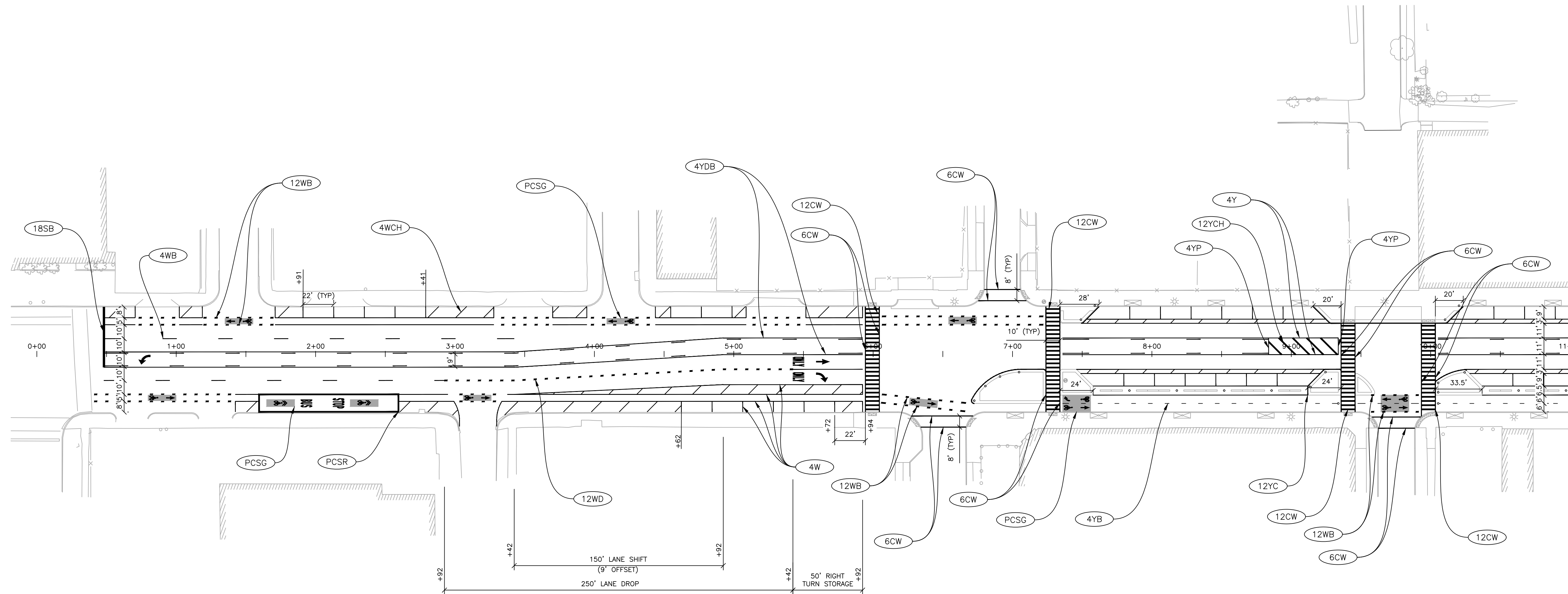
191190

SHEET NO.

72

MTDET004





QUANTITIES THIS SHEET	
JN PW-7010	
CAT 0001	
21 Ea	Post Delineator, 36 inch, White
24 Ft	Pavt Mrkg, Polyurea, 4 inch, Yellow
756 Ft	Pavt Mrkg, Polyurea, 6 inch, Crosswalk
82 Ft	Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow
918 Ft	Pavt Mrkg, Polyurea, 12 inch, Crosswalk
43 Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
3573 Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
2150 Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
2 Ea	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym
2 Ea	Pavt Mrkg, Polyurea, Only
1 Ea	Pavt Mrkg, Polyurea, Rt Turn Arrow Sym
1 Ea	Pavt Mrkg, Polyurea, Thru Arrow Sym
1361 Sft	Recessing Pavt Mrkg, Transv
63 Ft	Pavt Mrkg, Wet Reflective Sprayable Thermopl, 12 inch, White
1120 Sft	Pavt Mrkg, Polymer Cement Surfacing, Green
325 Sft	Pavt Mrkg, Polymer Cement Surfacing, Red
260 Sft	Pavt Mrkg, Polymer Cement Surfacing, 12 inch, White
446 Sft	Pavt Mrkg, Polyurea, 4 inch, Cross Hatching, White
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bus
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Stop
10 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bike, Small Sym
1 Ea	Pavt Mrkg, Polymer Cement Surfacing, Rt Turn Arrow Sym
9 Ea	Pavt Mrkg, Polymer Cement Surfacing, Direction Arrow Sym
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Sharrow
306 Ea	Pavt Mrkg, Waterborne, Curb, 12 inch

- NOTES**
- ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - SEE CITY OF DETROIT FIELD MARKING STANDARDS NO. STD-01 TO STD-09 FOR DETAILS NOT SHOWN ON THE PLANS.

**LEGEND**

	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID)		PAVT MRKG, WATERBORNE, CURB, 12 INCH
	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)		PAVT MRKG, POLYUREA, 12 INCH, CROSS HATCHING, YELLOW (10' SPACING, 45°)
	PAVT MRKG, POLYUREA, 4 INCH, YELLOW (SINGLE, SOLID)		PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK (RECESSED)
	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, BROKEN, 10' MARK, 30' GAP)		PAVT MRKG, POLYUREA, 18 INCH, STOP BAR (RECESSED)
	PAVT MRKG, POLYUREA, 4 INCH, CROSS HATCHING, WHITE (20' SPACING, 45°)		PAVT MRKG, POLYMER CEMENT SURFACING, GREEN
	PAVT MRKG, POLYMER CEMENT SURFACING, 4 INCH, YELLOW (SINGLE, BROKEN, 3' MARK, 9' GAP)		PAVT MRKG, POLYMER CEMENT SURFACING, RED
	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)		PAVT MRKG, POLYMER CEMENT SURFACING, BUS
	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID-BROKEN, 10' MARK, 30' GAP)		PAVT MRKG, POLYMER CEMENT SURFACING, STOP
	PAVT MRKG, POLYUREA, 6 INCH, CROSSWALK (RECESSED)		PAVT MRKG, POLYUREA, ONLY
	PAVT MRKG, POLYMER CEMENT SURFACING, 12 INCH, WHITE (SINGLE, BROKEN, 2' MARK, 6' GAP)		PAVT MRKG, POLYUREA, LT TURN ARROW SYM
	PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, WHITE (SINGLE, DOTTED, 2' MARK, 6' GAP)		PAVT MRKG, POLYUREA, RT TURN ARROW SYM

- |  |                                                             |
|--|-------------------------------------------------------------|
|  | PAVT MRKG, POLYUREA, THRU ARROW SYM                         |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, BIKE, SMALL SYM        |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, BIKE LT TURN ARROW SYM |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, BIKE RT TURN ARROW SYM |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, DIRECTION ARROW SYM    |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, TRIANGLE SYM           |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, SPEED TABLE SYM        |
|  | PAVT MRKG, POLYMER CEMENT SURFACING, SHARROW                |
|  | POST, DELINEATOR, 36 INCH, WHITE (GREEN REFLECTORS)         |

**PERMANENT PAVEMENT MARKING PLAN**

SCALE: 1" = 40'  
0 20 40 80

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PVMK\_001.DWG LAYOUT: PVMK001 DATE: 7/19/2023 TIME: 3:47:28 PM USER: MSWALSH

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

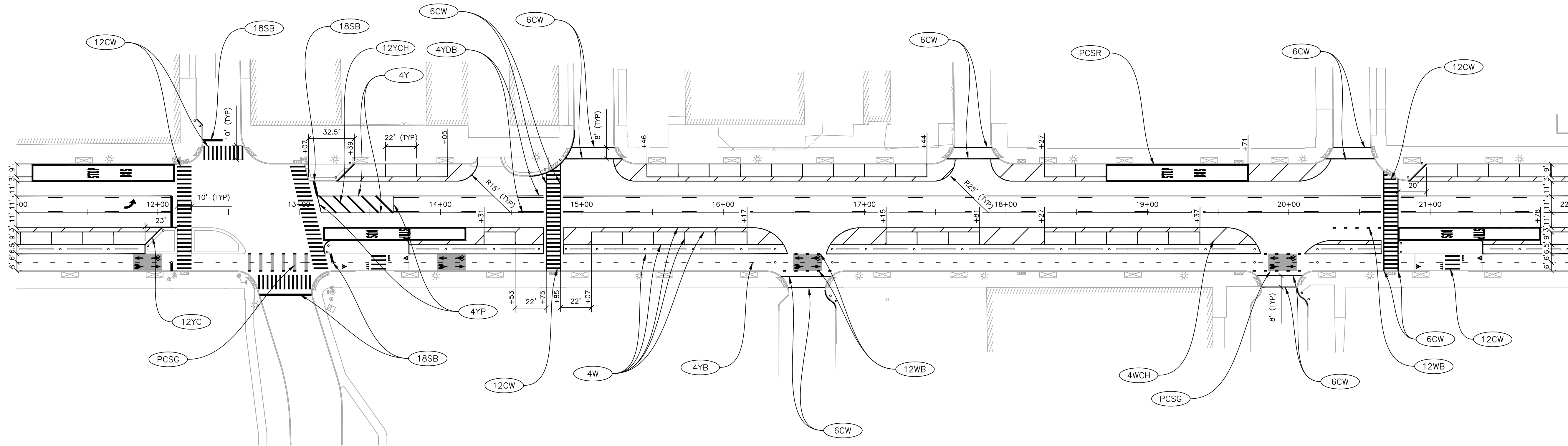
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.	191190
SHEET NO.	73
	PVMK001



DEXTER AVENUE

DEXTER AVENUE



**QUANTITIES THIS SHEET**

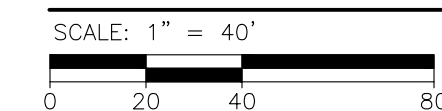
JN PW-7010	
CAT 0001	
48	Ea Post Delineator, 36 inch, White
24	Ft Pavt Mrkg, Polyurea, 4 inch, Yellow
593	Ft Pavt Mrkg, Polyurea, 6 inch, Crosswalk
133	Ft Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow
1275	Ft Pavt Mrkg, Polyurea, 12 inch, Crosswalk
96	Ft Pavt Mrkg, Polyurea, 18 inch, Stop Bar
4251	Ft Pavt Mrkg, Sprayable Thermopl, 4 inch, White
3195	Ft Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
1716	Sft Recessing Pavt Mrkg, Transv
17	Ft Pavt Mrkg, Wet Reflective Sprayable Thermopl, 12 inch, White
600	Sft Pavt Mrkg, Polymer Cement Surfacing, Green
880	Sft Pavt Mrkg, Polymer Cement Surfacing, Red
49	Sft Pavt Mrkg, Polymer Cement Surfacing, 12 inch, White
496	Sft Pavt Mrkg, Polyurea, 4 inch, Cross Hatching, White
8	Ea Pavt Mrkg, Polymer Cement Surfacing, Bike, Small Sym
3	Ea Pavt Mrkg, Polymer Cement Surfacing, Bus
8	Ea Pavt Mrkg, Polymer Cement Surfacing, Direction Arrow Sym
4	Ea Pavt Mrkg, Polymer Cement Surfacing, Speed Table Sym
3	Ea Pavt Mrkg, Polymer Cement Surfacing, Stop
12	Ea Pavt Mrkg, Polymer Cement Surfacing, Triangle Sym
279	Ea Pavt Mrkg, Waterborne, Curb, 12 inch

- NOTES**
- ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - SEE CITY OF DETROIT FIELD MARKING STANDARDS NO. STD-01 TO STD-09 FOR DETAILS NOT SHOWN ON THE PLANS.

- LEGEND**
- 4W PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID)
  - 4Y PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)
  - 4YP PAVT MRKG, POLYUREA, 4 INCH, YELLOW (SINGLE, SOLID)
  - 4WB PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID, 10' MARK, 30' GAP)
  - 4WCH PAVT MRKG, POLYUREA, 4 INCH, CROSS HATCHING, WHITE (20' SPACING, 45°)
  - 4YB PAVT MRKG, POLYMER CEMENT SURFACING, 4 INCH, YELLOW (SINGLE, BROKEN, 3' MARK, 9' GAP)
  - 4YD PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID)
  - 4YDB PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID-BROKEN, 10' MARK, 30' GAP)
  - 6CW PAVT MRKG, POLYUREA, 6 INCH, CROSSWALK (RECESSED)
  - 12WB PAVT MRKG, POLYMER CEMENT SURFACING, 12 INCH, WHITE (SINGLE, BROKEN, 2' MARK, 6' GAP)
  - 12WD PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, WHITE (SINGLE, DOTTED, 2' MARK, 6' GAP)
  - 12YC PAVT MRKG, WATERBORNE, CURB, 12 INCH
  - 12YCH PAVT MRKG, POLYUREA, 12 INCH, CROSS HATCHING, YELLOW (10' SPACING, 45°)
  - 12CW PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK (RECESSED)
  - 18SB PAVT MRKG, POLYUREA, 18 INCH, STOP BAR (RECESSED)
  - PCSC PAVT MRKG, POLYMER CEMENT SURFACING, GREEN
  - PCSR PAVT MRKG, POLYMER CEMENT SURFACING, RED
  - BUS PAVT MRKG, POLYMER CEMENT SURFACING, BUS
  - STOP PAVT MRKG, POLYMER CEMENT SURFACING, STOP
  - ONLY PAVT MRKG, POLYUREA, ONLY
  - LT PAVT MRKG, POLYUREA, LT TURN ARROW SYM
  - RT PAVT MRKG, POLYUREA, RT TURN ARROW SYM

- ↑ PAVT MRKG, POLYUREA, THRU ARROW SYM
- ↶ PAVT MRKG, POLYMER CEMENT SURFACING, BIKE, SMALL SYM
- ↷ PAVT MRKG, POLYMER CEMENT SURFACING, BIKE LT TURN ARROW SYM
- ↸ PAVT MRKG, POLYMER CEMENT SURFACING, BIKE RT TURN ARROW SYM
- ↑ PAVT MRKG, POLYMER CEMENT SURFACING, DIRECTION ARROW SYM
- ▽ PAVT MRKG, POLYMER CEMENT SURFACING, TRIANGLE SYM
- ▲ PAVT MRKG, POLYMER CEMENT SURFACING, SPEED TABLE SYM
- ⬇ PAVT MRKG, POLYMER CEMENT SURFACING, SHARROW
- POST, DELINEATOR, 36 INCH, WHITE (GREEN REFLECTORS)

**PERMANENT PAVEMENT MARKING PLAN**



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PVMK\_002.DWG LAYOUT: PVMK002 DATE: 7/19/2023 TIME: 3:49:33 PM USER: MSW\ALSH

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

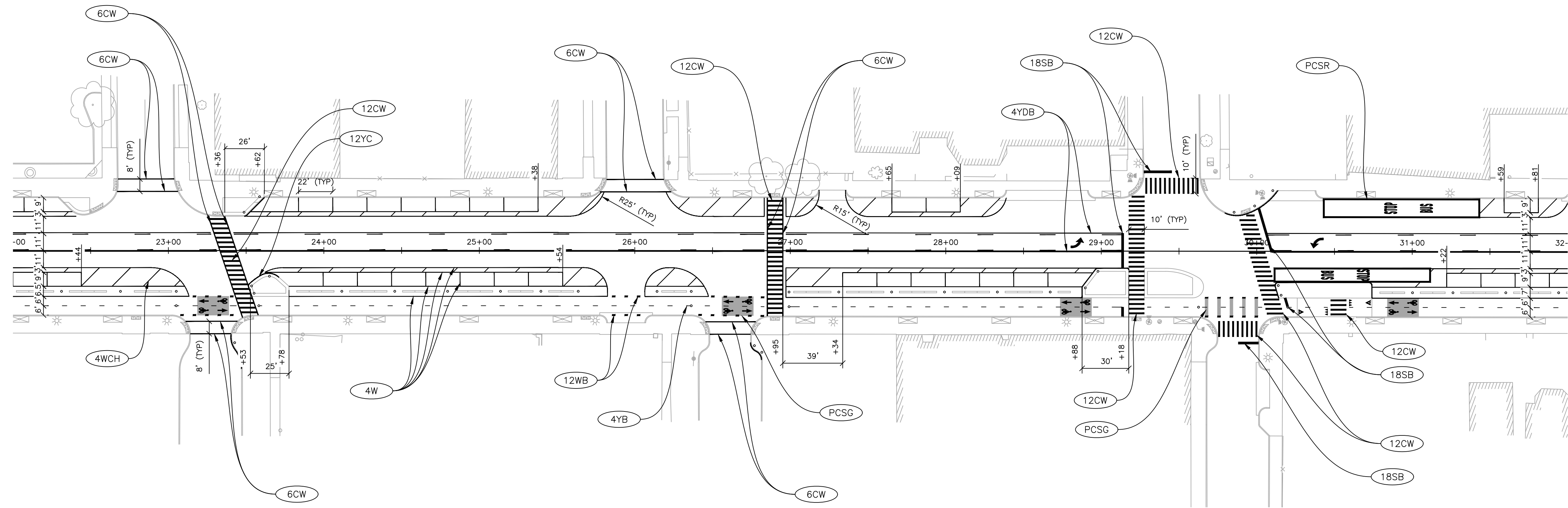
74

PVMK002



DEXTER AVENUE

DEXTER AVENUE



**QUANTITIES THIS SHEET**

QTY	DESCRIPTION
JN PW-7010	
CAT 0001	
41 Ea	Post Delineator, 36 inch, White
564 Ft	Pavt Mrkg, Polyurea, 6 inch, Crosswalk
1204 Ft	Pavt Mrkg, Polyurea, 12 inch, Crosswalk
95 Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
3748 Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
2972 Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
2 Ea	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym
1629 Sft	Recessing Pavt Mrkg, Transv
740 Sft	Pavt Mrkg, Polymer Cement Surfacing, Green
440 Sft	Pavt Mrkg, Polymer Cement Surfacing, Red
60 Sft	Pavt Mrkg, Polymer Cement Surfacing, 12 inch, White
474 Sft	Pavt Mrkg, Polyurea, 4 inch, Cross Hatching, White
8 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bike, Small Sym
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bus
8 Ea	Pavt Mrkg, Polymer Cement Surfacing, Direction Arrow Sym
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Speed Table Sym
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Stop
6 Ea	Pavt Mrkg, Polymer Cement Surfacing, Triangle Sym
297 Ea	Pavt Mrkg, Waterborne, Curb, 12 inch

- NOTES**
- ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - SEE CITY OF DETROIT FIELD MARKING STANDARDS NO. STD-01 TO STD-09 FOR DETAILS NOT SHOWN ON THE PLANS.

**LEGEND**

4W	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID)
4Y	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)
4YP	PAVT MRKG, POLYUREA, 4 INCH, YELLOW (SINGLE, SOLID)
4WB	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, BROKEN, 10' MARK, 30' GAP)
4WCH	PAVT MRKG, POLYUREA, 4 INCH, CROSS HATCHING, WHITE (20' SPACING, 45°)
4YB	PAVT MRKG, POLYMER CEMENT SURFACING, 4 INCH, YELLOW (SINGLE, BROKEN, 3' MARK, 9' GAP)
4YD	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID)
4YDB	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID-BROKEN, 10' MARK, 30' GAP)
6CW	PAVT MRKG, POLYUREA, 6 INCH, CROSSWALK (RECESSED)
12WB	PAVT MRKG, POLYMER CEMENT SURFACING, 12 INCH, WHITE (SINGLE, BROKEN, 2' MARK, 6' GAP)
12WD	PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, WHITE (SINGLE, DOTTED, 2' MARK, 6' GAP)
12YC	PAVT MRKG, WATERBORNE, CURB, 12 INCH
12YCH	PAVT MRKG, POLYUREA, 12 INCH, CROSS HATCHING, YELLOW (10' SPACING, 45°)
12CW	PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK (RECESSED)
18SB	PAVT MRKG, POLYUREA, 18 INCH, STOP BAR (RECESSED)
PCSC	PAVT MRKG, POLYMER CEMENT SURFACING, GREEN
PCSR	PAVT MRKG, POLYMER CEMENT SURFACING, RED
BUS STOP ONLY	PAVT MRKG, POLYMER CEMENT SURFACING, BUS
SHARROW	PAVT MRKG, POLYUREA, ONLY
THRU ARROW SYM	PAVT MRKG, POLYUREA, THRU ARROW SYM
BIKE SMALL SYM	PAVT MRKG, POLYMER CEMENT SURFACING, BIKE, SMALL SYM
BIKE LT TURN ARROW SYM	PAVT MRKG, POLYMER CEMENT SURFACING, BIKE LT TURN ARROW SYM
BIKE RT TURN ARROW SYM	PAVT MRKG, POLYMER CEMENT SURFACING, BIKE RT TURN ARROW SYM
DIRECTION ARROW SYM	PAVT MRKG, POLYMER CEMENT SURFACING, DIRECTION ARROW SYM
TRIANGLE SYM	PAVT MRKG, POLYMER CEMENT SURFACING, TRIANGLE SYM
SPEED TABLE SYM	PAVT MRKG, POLYMER CEMENT SURFACING, SPEED TABLE SYM
SHARROW	PAVT MRKG, POLYMER CEMENT SURFACING, SHARROW
POST DELINEATOR	POST, DELINEATOR, 36 INCH, WHITE (GREEN REFLECTORS)

**PERMANENT PAVEMENT MARKING PLAN**

SCALE: 1" = 40'  
0 20 40 80

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PVMK\_003.DWG LAYOUT: PVMK003 DATE: 7/19/2023 TIME: 3:52:11 PM USER: MSW\ALSH

**REVISIONS**

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

75

PVMK003

LESLIE STREET

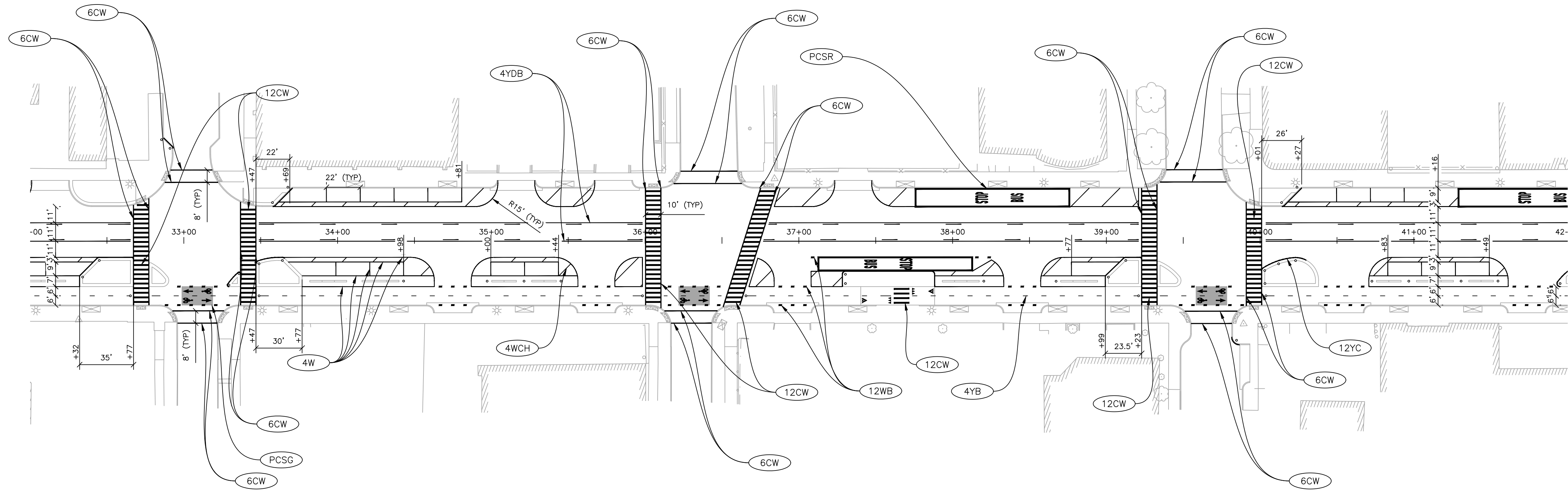
GLENDALE AVENUE

BUENA VISTA STREET



DEXTER AVENUE

DEXTER AVENUE



QUANTITIES THIS SHEET

JN PW-7010	
CAT 0001	
39	Ea Post Delineator, 36 inch, White
1269	Ft Pavt Mrkg, Polyurea, 6 inch, Crosswalk
1440	Ft Pavt Mrkg, Polyurea, 12 inch, Crosswalk
2582	Ft Pavt Mrkg, Sprayable Thermopl, 4 inch, White
2426	Ft Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
2075	Sft Recessing Pavt Mrkg, Transv
240	Sft Pavt Mrkg, Polymer Cement Surfacing, Green
663	Sft Pavt Mrkg, Polymer Cement Surfacing, Red
114	Sft Pavt Mrkg, Polymer Cement Surfacing, 12 inch, White
345	Sft Pavt Mrkg, Polyurea, 4 inch, Cross Hatching, White
6	Ea Pavt Mrkg, Polymer Cement Surfacing, Bike, Small Sym
2	Ea Pavt Mrkg, Polymer Cement Surfacing, Bus
6	Ea Pavt Mrkg, Polymer Cement Surfacing, Direction Arrow Sym
2	Ea Pavt Mrkg, Polymer Cement Surfacing, Speed Table Sym
2	Ea Pavt Mrkg, Polymer Cement Surfacing, Stop
6	Ea Pavt Mrkg, Polymer Cement Surfacing, Triangle Sym
291	Ea Pavt Mrkg, Waterborne, Curb, 12 inch

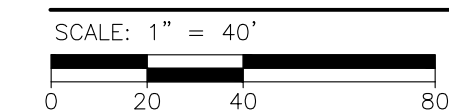
NOTES

- ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- SEE CITY OF DETROIT FIELD MARKING STANDARDS NO. STD-01 TO STD-09 FOR DETAILS NOT SHOWN ON THE PLANS.

LEGEND

4W	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID)	12YC	PAVT MRKG, WATERBORNE, CURB, 12 INCH		PAVT MRKG, POLYUREA, THRU ARROW SYM
4Y	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)	12YCH	PAVT MRKG, POLYUREA, 12 INCH, CROSS HATCHING, YELLOW (10' SPACING, 45°)		PAVT MRKG, POLYMER CEMENT SURFACING, BIKE, SMALL SYM
4YP	PAVT MRKG, POLYUREA, 4 INCH, YELLOW (SINGLE, SOLID)	12CW	PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK (RECESSED)		PAVT MRKG, POLYMER CEMENT SURFACING, BIKE LT TURN ARROW SYM
4WB	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, BROKEN, 10' MARK, 30' GAP)	18SB	PAVT MRKG, POLYUREA, 18 INCH, STOP BAR (RECESSED)		PAVT MRKG, POLYMER CEMENT SURFACING, BIKE RT TURN ARROW SYM
4WCH	PAVT MRKG, POLYUREA, 4 INCH, CROSS HATCHING, WHITE (20' SPACING, 45°)	PCSC	PAVT MRKG, POLYMER CEMENT SURFACING, GREEN		PAVT MRKG, POLYMER CEMENT SURFACING, DIRECTION ARROW SYM
4YB	PAVT MRKG, POLYMER CEMENT SURFACING, 4 INCH, YELLOW (SINGLE, BROKEN, 10' MARK, 30' GAP)	PCSR	PAVT MRKG, POLYMER CEMENT SURFACING, RED		PAVT MRKG, POLYMER CEMENT SURFACING, TRIANGLE SYM
4YD	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID)		PAVT MRKG, POLYMER CEMENT SURFACING, BUS STOP ONLY		PAVT MRKG, POLYMER CEMENT SURFACING, SPEED TABLE SYM
4YDB	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID-BROKEN, 10' MARK, 30' GAP)		PAVT MRKG, POLYUREA, ONLY		PAVT MRKG, POLYMER CEMENT SURFACING, SHARROW
6CW	PAVT MRKG, POLYUREA, 6 INCH, CROSSWALK (RECESSED)		PAVT MRKG, POLYUREA, ONLY		POST, DELINEATOR, 36 INCH, WHITE (GREEN REFLECTORS)
12WB	PAVT MRKG, POLYMER CEMENT SURFACING, 12 INCH, WHITE (SINGLE, BROKEN, 2' MARK, 6' GAP)		PAVT MRKG, POLYUREA, LT TURN ARROW SYM		
12WD	PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, WHITE (SINGLE, DOTTED, 2' MARK, 6' GAP)		PAVT MRKG, POLYUREA, RT TURN ARROW SYM		

PERMANENT PAVEMENT MARKING PLAN



PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PVMK\_004.DWG LAYOUT: PVMK004 DATE: 7/19/2023 TIME: 3:54:21 PM USER: MSWALSH

LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

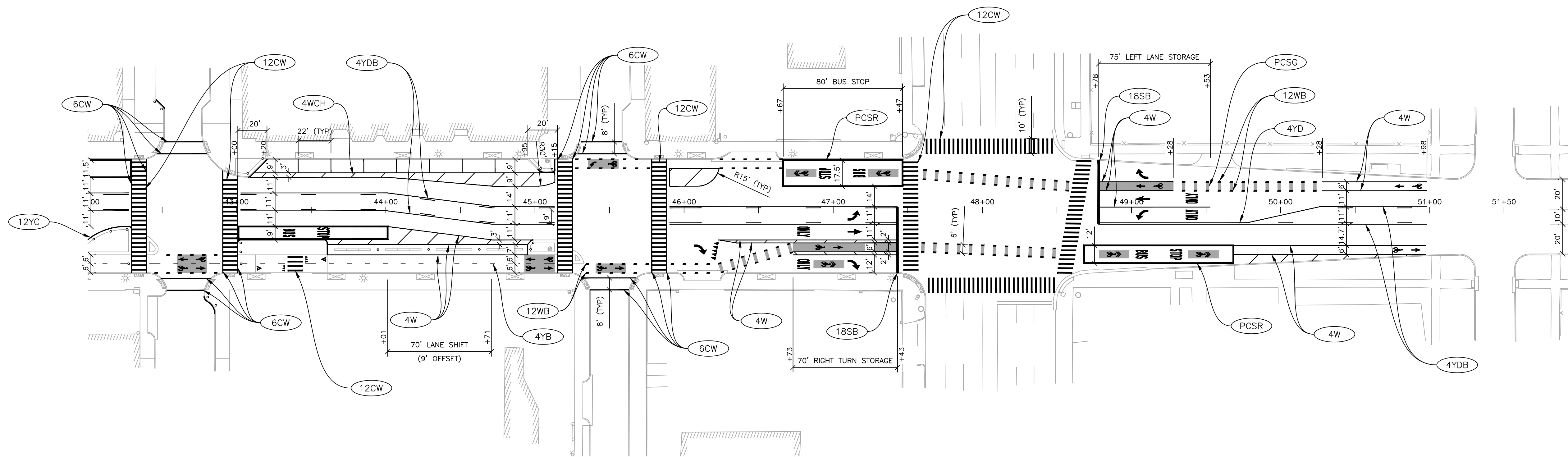
PROJECT NO.

191190

SHEET NO.

76

PVMK004

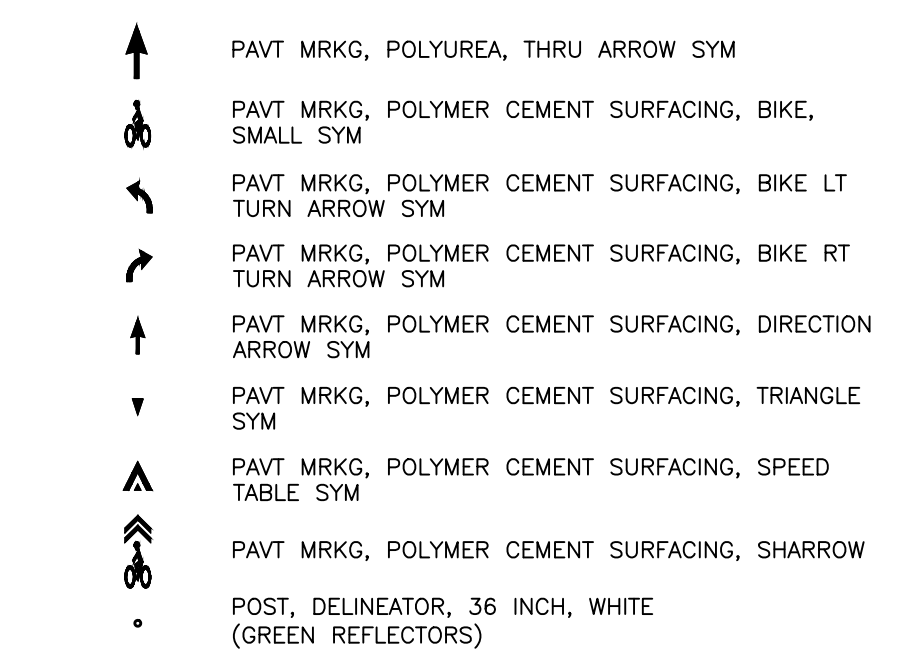


QUANTITIES THIS SHEET

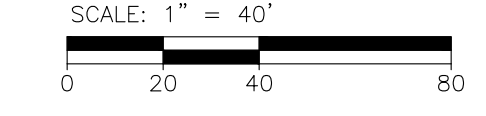
QTY	DESCRIPTION
JN PW-7010	
CAT 0001	
20 Ea	Post Delineator, 36 inch, White
830 Ft	Pavt Mrkg, Polyurea, 6 inch, Crosswalk
2094 Ft	Pavt Mrkg, Polyurea, 12 inch, Crosswalk
87 Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
1883 Ft	Pavt Mrkg, Sprayable ThermoPl, 4 inch, White
1435 Ft	Pavt Mrkg, Sprayable ThermoPl, 4 inch, Yellow
2 Ea	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym
4 Ea	Pavt Mrkg, Polyurea, Only
3 Ea	Pavt Mrkg, Polyurea, Rt Turn Arrow Sym
2 Ea	Pavt Mrkg, Polyurea, Thru Arrow Sym
2640 Sft	Recessing Pavt Mrkg, Transv
2468 Sft	Pavt Mrkg, Polymer Cement Surfacing, Green
624 Sft	Pavt Mrkg, Polymer Cement Surfacing, Red
266 Sft	Pavt Mrkg, Polymer Cement Surfacing, 12 inch, White
201 Sft	Pavt Mrkg, Polyurea, 4 inch, Cross Hatching, White
10 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bike, Small Sym
3 Ea	Pavt Mrkg, Polymer Cement Surfacing, Bus
9 Ea	Pavt Mrkg, Polymer Cement Surfacing, Direction Arrow Sym
1 Ea	Pavt Mrkg, Polymer Cement Surfacing, Lt Turn Arrow Sym
0 Ea	Pavt Mrkg, Polymer Cement Surfacing, Rt Turn Arrow Sym
5 Ea	Pavt Mrkg, Polymer Cement Surfacing, Sharrow
2 Ea	Pavt Mrkg, Polymer Cement Surfacing, Speed Table Sym
3 Ea	Pavt Mrkg, Polymer Cement Surfacing, Stop
11 Ea	Pavt Mrkg, Polymer Cement Surfacing, Triangle Sym
184 Ea	Pavt Mrkg, Waterborne, Curb, 12 inch

- NOTES
- ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - SEE CITY OF DETROIT FIELD MARKING STANDARDS NO. STD-01 TO STD-09 FOR DETAILS NOT SHOWN ON THE PLANS.

- LEGEND
- 4W PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, SOLID)
  - 4Y PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (SINGLE, SOLID)
  - 4YP PAVT MRKG, POLYUREA, 4 INCH, YELLOW (SINGLE, SOLID)
  - 4WB PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE (SINGLE, BROKEN, 10' MARK, 30' GAP)
  - 4WCH PAVT MRKG, POLYUREA, 4 INCH, CROSS HATCHING, WHITE (20' SPACING, 45')
  - 4YB PAVT MRKG, POLYMER CEMENT SURFACING, 4 INCH, YELLOW (SINGLE, BROKEN, 3' MARK, 9' GAP)
  - 4YD PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID)
  - 4YDB PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW (DOUBLE, SOLID-BROKEN, 10' MARK, 30' GAP)
  - 6CW PAVT MRKG, POLYUREA, 6 INCH, CROSSWALK (RECESSED)
  - 12WB PAVT MRKG, POLYMER CEMENT SURFACING, 12 INCH, WHITE (SINGLE, BROKEN, 2' MARK, 6' GAP)
  - 12WD PAVT MRKG, SPRAYABLE THERMOPL, 12 INCH, WHITE (SINGLE, DOTTED, 2' MARK, 6' GAP)
  - 12YC PAVT MRKG, WATERBORNE, CURB, 12 INCH
  - 12YCH PAVT MRKG, POLYUREA, 12 INCH, CROSS HATCHING, YELLOW (10' SPACING, 45')
  - 12CW PAVT MRKG, POLYUREA, 12 INCH, CROSSWALK (RECESSED)
  - 18SB PAVT MRKG, POLYUREA, 18 INCH, STOP BAR (RECESSED)
  - PCSC PAVT MRKG, POLYMER CEMENT SURFACING, GREEN
  - PCSR PAVT MRKG, POLYMER CEMENT SURFACING, RED
  - BUS STOP ONLY PAVT MRKG, POLYMER CEMENT SURFACING, BUS
  - PAVT MRKG, POLYUREA, ONLY
  - PAVT MRKG, POLYUREA, LT TURN ARROW SYM
  - PAVT MRKG, POLYUREA, RT TURN ARROW SYM
  - PAVT MRKG, POLYUREA, THRU ARROW SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, BIKE, SMALL SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, BIKE LT TURN ARROW SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, BIKE RT TURN ARROW SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, DIRECTION ARROW SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, TRIANGLE SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, SPEED TABLE SYM
  - PAVT MRKG, POLYMER CEMENT SURFACING, SHARROW
  - POST, DELINEATOR, 36 INCH, WHITE (GREEN REFLECTORS)



PERMANENT PAVEMENT MARKING PLAN



PLOT INFO: Z:\2018\191190\CAD\CDD\191190\_PVMK\_005.DWG LAYOUT: PVMK005 DATE: 7/19/2023 TIME: 3:56:27 PM USER: MSW\ALSH

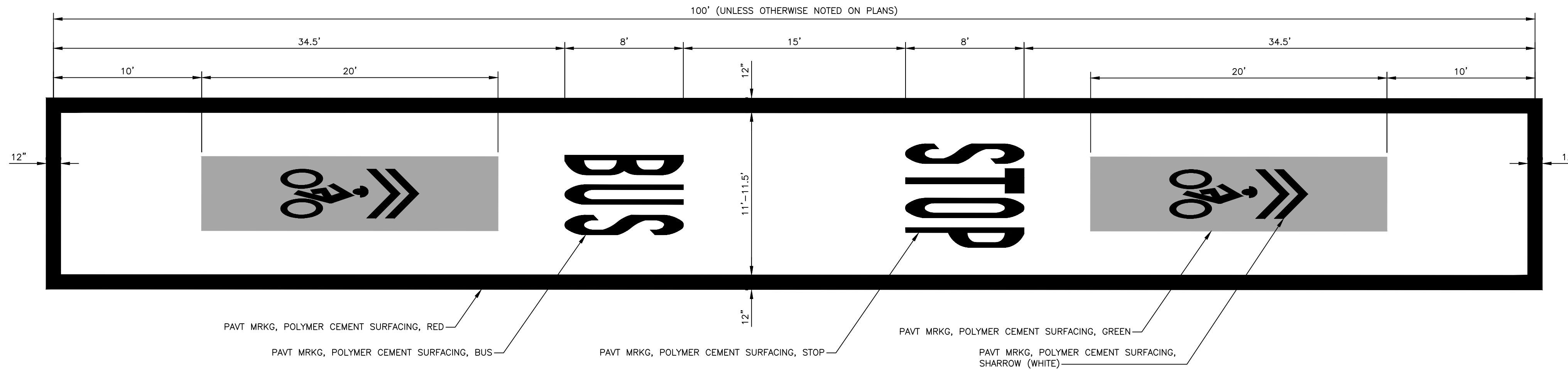
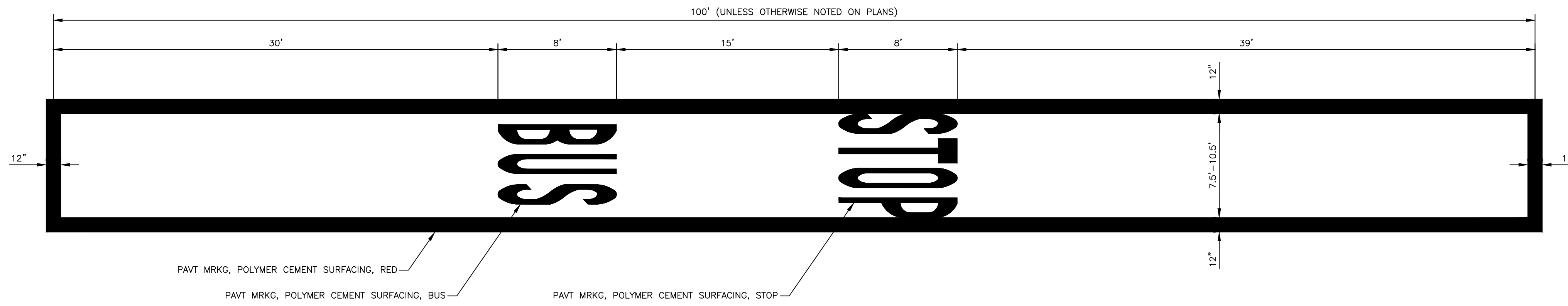
REVISIONS

DATE	DESCRIPTION	BY
07/21/2023	100% CD	
06/09/2023	90% CD	
04/28/2023	60% CD	
03/10/2023	30% CD	

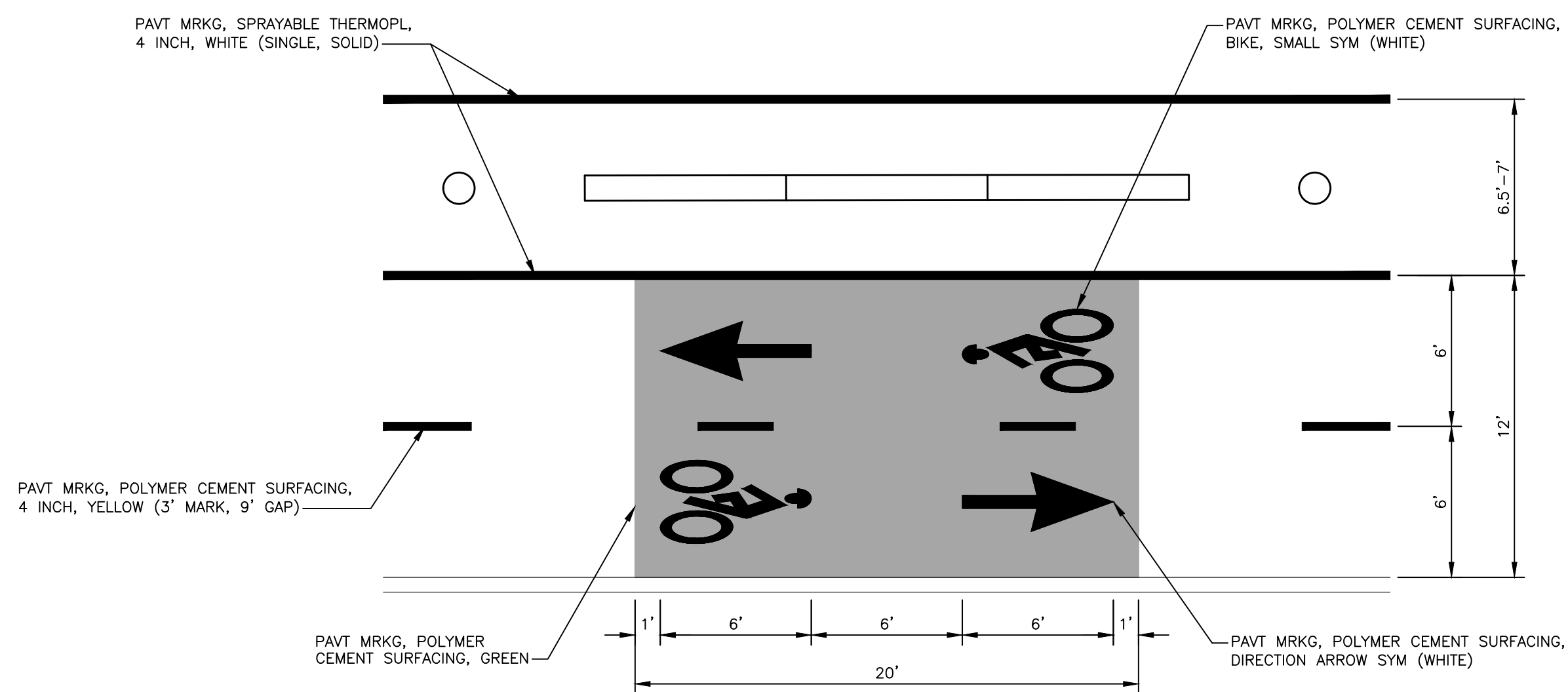
Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

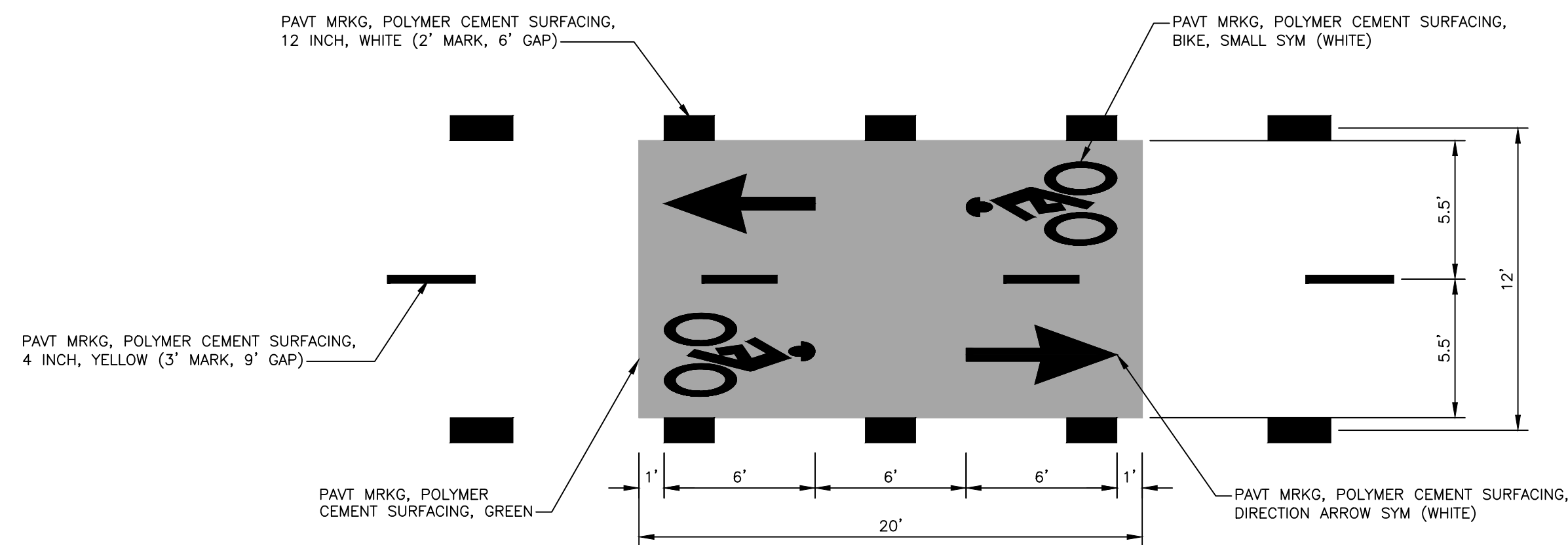
PROJECT NO.	191190
SHEET NO.	77
PVMK005	



**BUS STOP PAVEMENT MARKING DETAILS**  
NO SCALE



**BIKE PAVEMENT MARKINGS BEFORE AND AFTER SIGNALIZED INTERSECTION**



**BIKE PAVEMENT MARKINGS AT LOCAL STREET**

**BIKE TWO-WAY CYCLE TRACK PAVEMENT MARKING DETAILS**  
NO SCALE

**PERMANENT PAVEMENT MARKING DETAILS**  
NO SCALE

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_PVMK\_006.DWG LAYOUT: PVMK006 DATE: 7/19/2023 TIME: 3:57:28 PM USER: MSWALSH

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

78

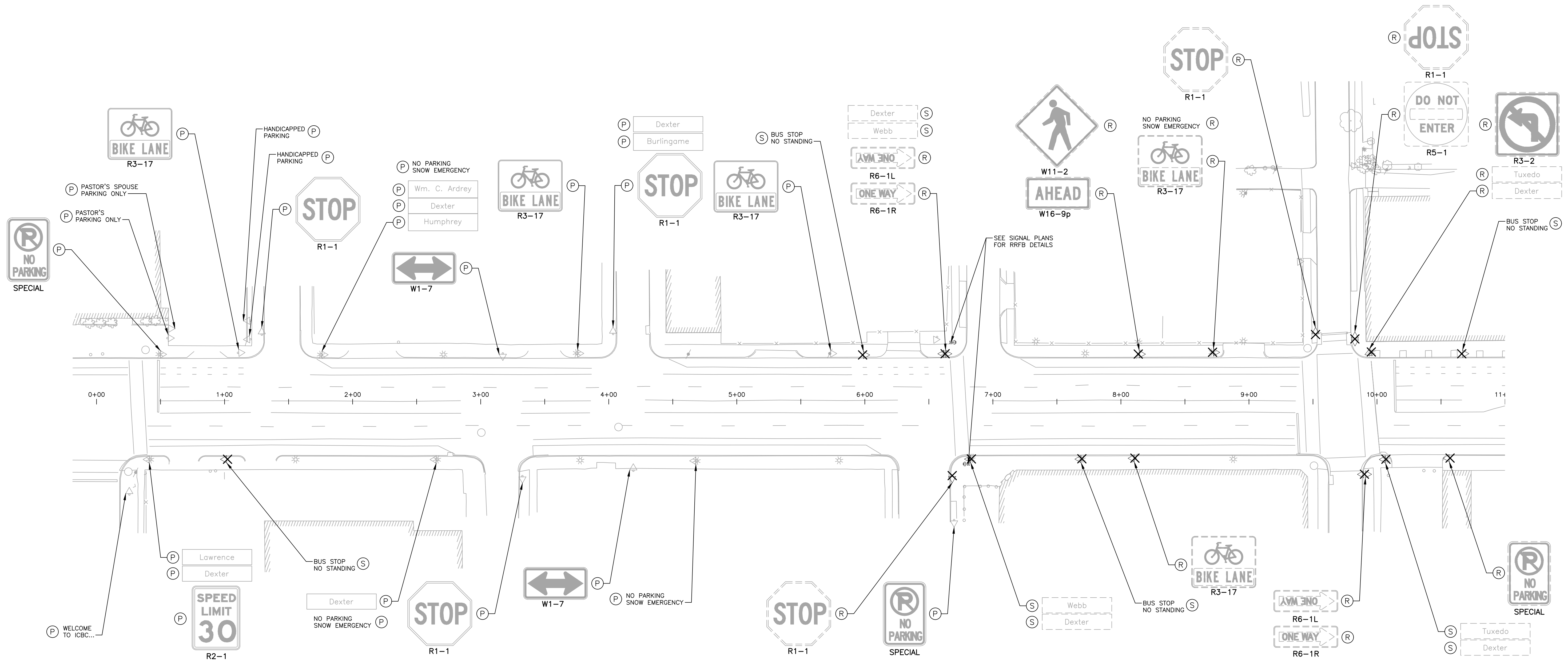
PVMK006

HUMPHREY STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



NOTES

1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. EXISTING BUS STOP SIGNS SHALL BE REMOVED, SALVAGED AND RETURNED TO DDOT.

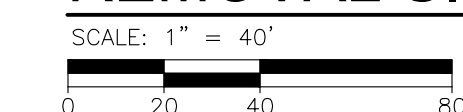
SYMBOL LEGEND

- ◁▷ EXISTING SIGN SINGLE/DOUBLE SUPPORT
- ▷▷ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
- ✕ REMOVE SIGN SUPPORT
- (R) REMOVE SIGN
- (N) NEW SIGN AND SUPPORT
- (P) PROTECT SIGN AND SUPPORT
- (S) REMOVE AND SALVAGE

QUANTITIES THIS SHEET

Item	Quantity	Notes
JN PW-7010	16 Ea	Sign, Type III, Rem
CAT 0001	6 Ea	Sign, Type III, Rem, Salv
	8 Ea	Ground Mtd Sign Support, Rem

REMOVAL SIGNING PLAN



LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_SIGN\_001.DWG LAYOUT: SIGN001 DATE: 7/19/2023 TIME: 1:39:40 PM USER: MSW\LSH



SMITHGROUP

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit

Dexter Avenue Streetscape

REVISIONS

Date	Scale
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

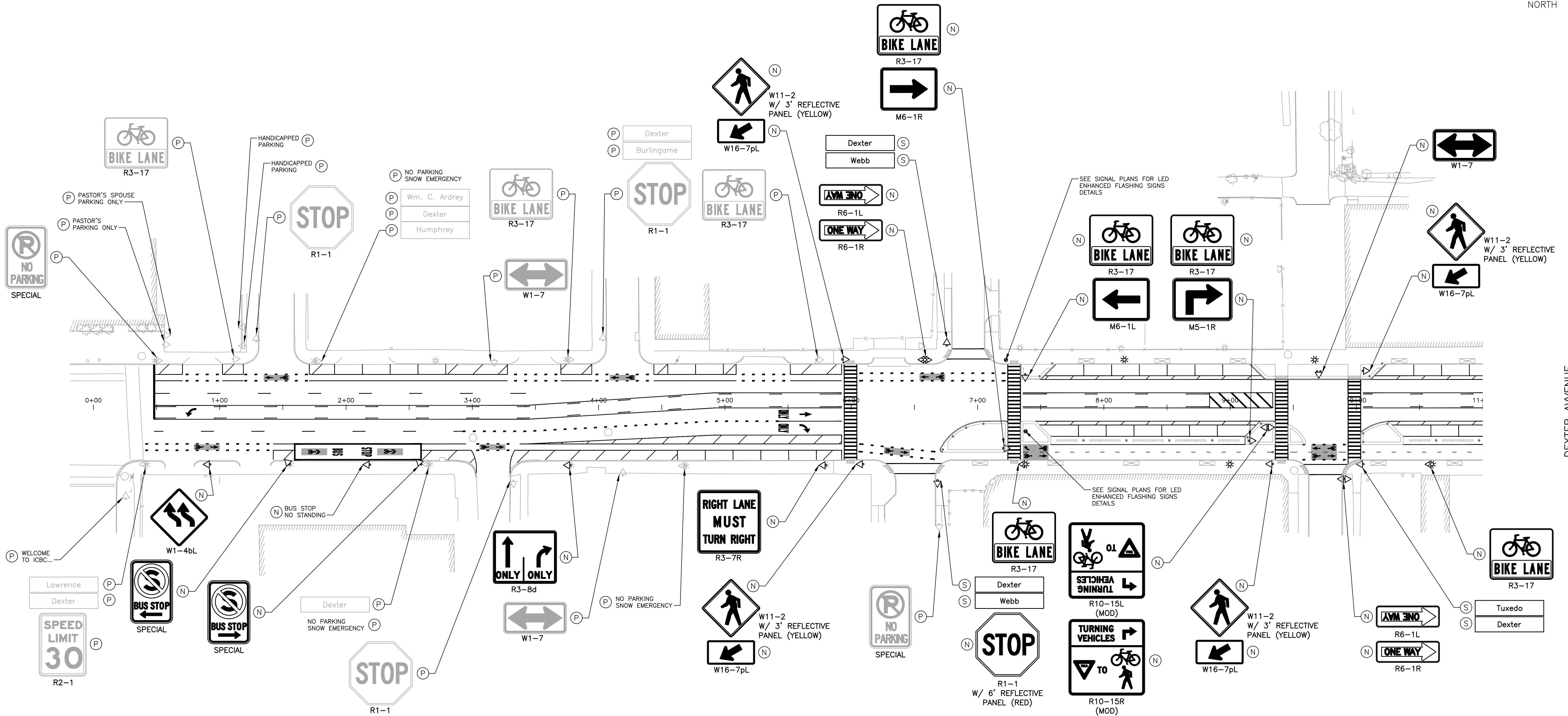
191190

SHEET NO.

79

SIGN001

© Copyright 2023 All Rights Reserved



NOTES

- 1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SYMBOL LEGEND

- EXISTING SIGN SINGLE/DOUBLE SUPPORT
- PROPOSED SIGN SINGLE/DOUBLE SUPPORT
- REMOVE SIGN SUPPORT
- REMOVE SIGN
- NEW SIGN AND SUPPORT
- PROTECT SIGN AND SUPPORT
- REMOVE AND SALVAGE

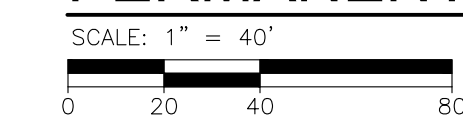
FOR INFORMATION ONLY						
PERMANENT SIGNING SUMMARY (THIS SHEET ONLY)						
SIGN	DESCRIPTION	QTY EACH	SIZE INCH X INCH	UNIT AREA SFT	TOTAL AREA SFT	SIGN TYPE
M5-1R	ADVANCE RIGHT	1	21 X 15	2.2	2.2	IIIB
M6-1L	LEFT	1	21 X 15	2.2	2.2	IIIB
M6-1R	RIGHT	1	21 X 15	2.2	2.2	IIIB
R1-1	STOP	1	30 X 30	6.25	6.25	IIIA
R3-7R	RIGHT LANE MUST TURN RIGHT	1	36 X 36	9	9	IIIB
R3-8d	THROUGH ONLY, RIGHT ONLY	1	36 X 30	7.5	7.5	IIIB
R3-17	BIKE LANE	5	30 X 24	5	25	IIIB
R6-1L	ONE WAY (LEFT)	2	36 X 12	3	6	IIIB
R6-1R	ONE WAY (RIGHT)	2	36 X 12	3	6	IIIB
R10-15L (MOD)	TURNING VEHICLES YIELD	1	36 X 36	9	9	IIIB
R10-15R (MOD)	TURNING VEHICLES YIELD	1	36 X 36	9	9	IIIB
W1-4bL	TWO LANE REVERSE CURVE	1	30 X 30	6.25	6.25	IIIB
W1-7	TWO DIRECTION LARGE ARROW	1	48 X 24	8	8	VB
W11-2	PEDESTRIAN	4	30 X 30	6.25	25	IIIB
W16-7pL	ARROW (LEFT)	4	30 X 15	3.125	12.5	IIIB
SPECIAL	BUS STOP/NO STANDING	1	12 X 18	1.5	1.5	IIIA
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	12 X 18	1.5	1.5	IIIA
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	12 X 18	1.5	1.5	IIIA

FOR INFORMATION ONLY										
PERMANENT SIGN SUPPORT SUMMARY (THIS SHEET ONLY)										
SIGN	DESCRIPTION	QTY EACH	TYPE OF POST	NO. BANDS PER SIGN	NO. POSTS PER SIGN	LENGTH PER SIGN	TOTAL LENGTH OR NO. BANDS	REFLECTIVE PANEL 3 FOOT	REFLECTIVE PANEL 6 FOOT	POST HOLE THROUGH CONCRETE
D3-1	STREET NAME	2	3 POUND	-	1	14	28	-	-	2
R1-1	STOP	1	3 POUND	-	1	14	14	-	1	1
R3-7R	RIGHT LANE MUST TURN RIGHT	1	-	2	-	-	2	-	-	-
R3-8d	THROUGH ONLY, RIGHT ONLY	1	-	2	-	-	2	-	-	-
R3-17	BIKE LANE	2	-	2	-	-	4	-	-	-
R3-17	BIKE LANE	3	3 POUND	-	1	14	42	-	-	-
R6-1L	ONE WAY (LEFT)	1	3 POUND	-	1	14	14	-	-	-
R6-1L	ONE WAY (LEFT)	1	-	2	-	-	2	-	-	-
R6-1R	ONE WAY (RIGHT)	1	-	2	-	-	2	-	-	-
R10-15L (MOD)	TURNING VEHICLES YIELD	1	3 POUND	-	2	30	30	-	-	-
W1-4bL	TWO LANE REVERSE CURVE	1	3 POUND	-	1	14	14	-	-	1
W1-7	TWO DIRECTION LARGE ARROW	1	3 POUND	-	2	26	26	-	-	-
W11-2	PEDESTRIAN	4	3 POUND	-	1	15	60	4	-	4
SPECIAL	BUS STOP/NO STANDING	1	3 POUND	-	1	14	14	-	-	1
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	-	2	-	-	2	-	-	-
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	3 POUND	-	1	14	14	-	-	1

QUANTITIES THIS SHEET

JN PW-7010		CAT 0001		BAND, SIGN	
14	Ea	10	Ea	Post Hole Through Conc for Steel Post	
256	Ft	11	Ea	Post, Steel, 3 pound	
11	Ea	11	Sft	Sign, Type III, Erect, Salv	
116	Sft	8	Sft	Sign, Type IIIA	
8	Sft	4	Ea	Sign, Type IIIB	
4	Ea	1	Ea	Sign, Type VB	
1	Ea			Reflective Panel for Permanent Sign Support, 3 foot	
				Reflective Panel for Permanent Sign Support, 6 foot	

PERMANENT SIGNING PLAN



REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

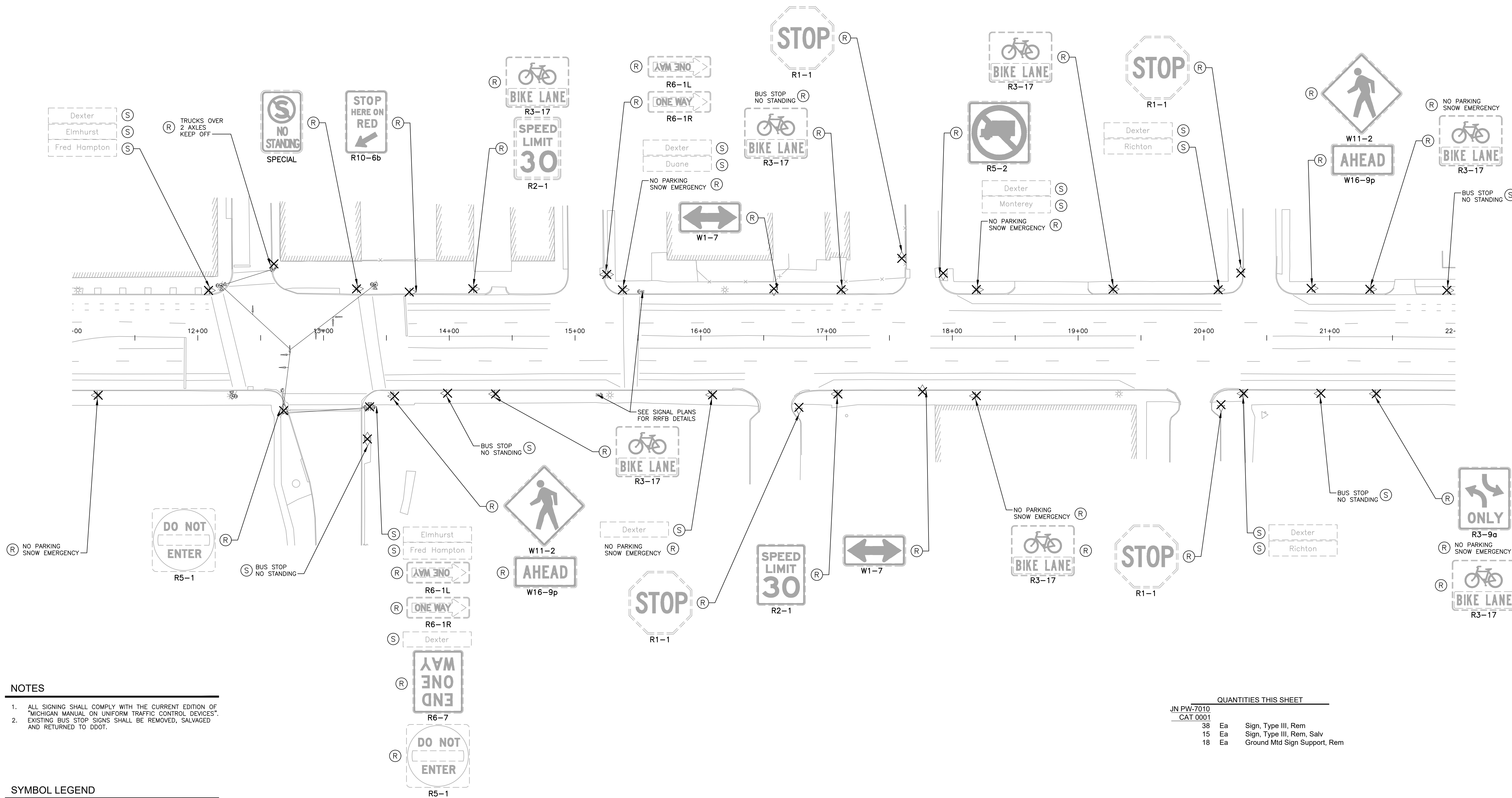
PROJECT NO.  
**191190**  
SHEET NO.  
**80**  
**SIGN002**





DEXTER AVENUE

DEXTER AVENUE



- NOTES**
1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  2. EXISTING BUS STOP SIGNS SHALL BE REMOVED, SALVAGED AND RETURNED TO DDOT.

- SYMBOL LEGEND**
- ◇◇ EXISTING SIGN SINGLE/DOUBLE SUPPORT
  - ◀▶ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
  - ✕ REMOVE SIGN SUPPORT
  - (R) REMOVE SIGN
  - (N) NEW SIGN AND SUPPORT
  - (P) PROTECT SIGN AND SUPPORT
  - (S) REMOVE AND SALVAGE

**QUANTITIES THIS SHEET**

JN PW-7010	38	Ea	Sign, Type III, Rem
CAT 0001	15	Ea	Sign, Type III, Rem, Salv
	18	Ea	Ground Mtd Sign Support, Rem

**REVISIONS**

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

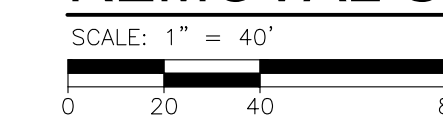
Drawn By MSW  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

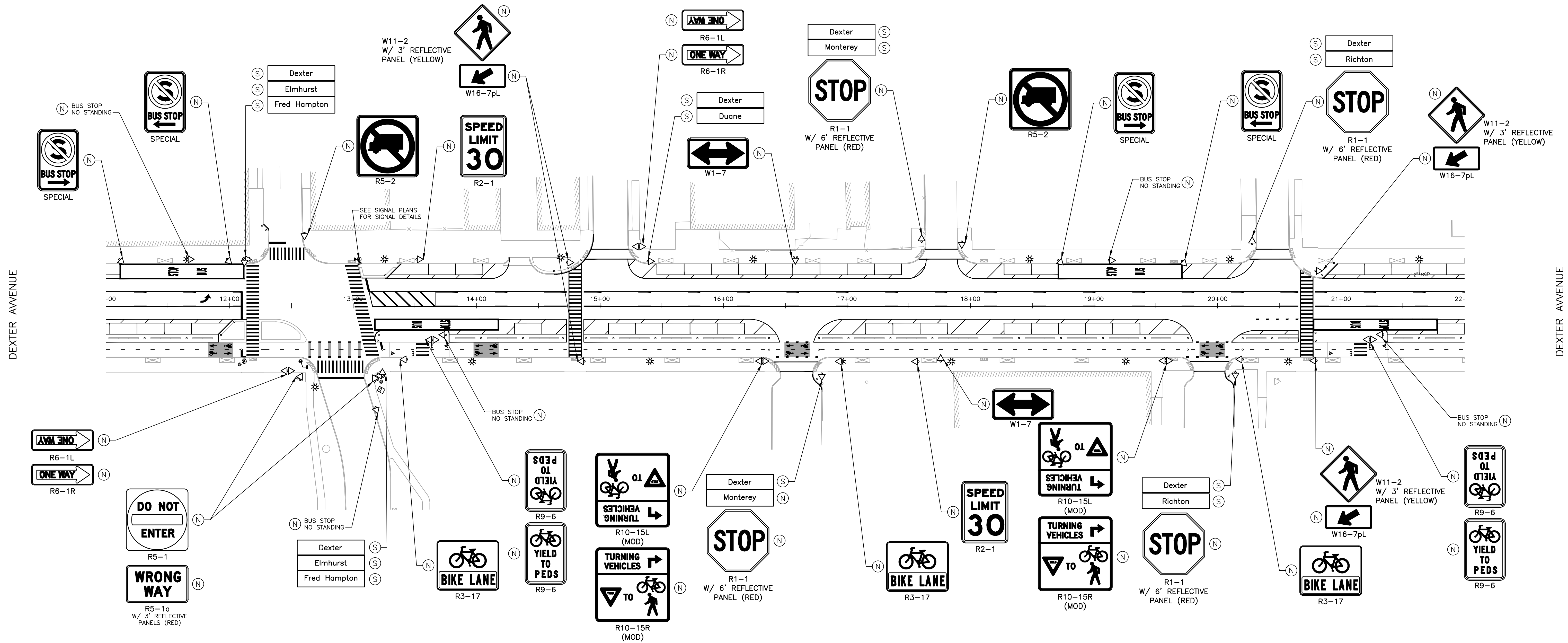
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
81  
SIGN003

**REMOVAL SIGNING PLAN**





NOTES

1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SYMBOL LEGEND

- ◁ ▷ EXISTING SIGN SINGLE/DOUBLE SUPPORT
- ◁ ▷ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
- ✕ REMOVE SIGN SUPPORT
- Ⓡ REMOVE SIGN
- Ⓝ NEW SIGN AND SUPPORT
- Ⓟ PROTECT SIGN AND SUPPORT
- Ⓢ REMOVE AND SALVAGE

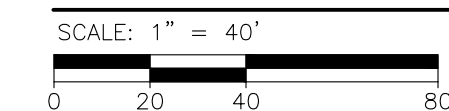
FOR INFORMATION ONLY						
PERMANENT SIGNING SUMMARY (THIS SHEET ONLY)						
SIGN	DESCRIPTION	QTY EACH	SIZE INCH X INCH	UNIT AREA SFT	TOTAL AREA SFT	SIGN TYPE
D3-1	STREET NAME	1	30 X 12	2.5	2.5	IIIA
R1-1	STOP	4	30 X 30	6.25	25	IIIA
R2-1	SPEED LIMIT 30	2	24 X 30	5	10	IIIB
R3-17	BIKE LANE	3	30 X 24	5	15	IIIB
R5-1	DO NOT ENTER	2	36 X 36	9	18	IIIA
R5-1a	WRONG WAY	2	36 X 24	6	12	IIIA
R5-2	NO TRUCKS	2	30 X 30	6.25	12.5	IIIB
R6-1L	ONE WAY (LEFT)	2	36 X 12	3	6	IIIB
R6-1R	ONE WAY (RIGHT)	2	36 X 12	3	6	IIIB
R9-6	YIELD TO PEDS	4	18 X 12	1.5	6	IIIB
R10-15L (MOD)	TURNING VEHICLES YIELD	2	36 X 36	9	18	IIIB
R10-15R (MOD)	TURNING VEHICLES YIELD	2	36 X 36	9	18	IIIB
W1-7	TWO DIRECTION LARGE ARROW	2	48 X 24	8	16	VB
W11-2	PEDESTRIAN	4	30 X 30	6.25	25	IIIB
W16-7pL	ARROW (LEFT)	4	30 X 15	3.125	12.5	IIIB
SPECIAL	BUS STOP/NO STANDING	5	12 X 18	1.5	7.5	IIIA
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	2	12 X 18	1.5	3	IIIA
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	2	12 X 18	1.5	3	IIIA

FOR INFORMATION ONLY										
PERMANENT SIGN SUPPORT SUMMARY (THIS SHEET ONLY)										
SIGN	DESCRIPTION	QTY EACH	TYPE OF POST	NO. BANDS PER SIGN	NO. POSTS PER SIGN	LENGTH PER SIGN	TOTAL LENGTH OR NO. BANDS	REFLECTIVE PANEL 3 FOOT	REFLECTIVE PANEL 6 FOOT	POST HOLE THROUGH CONCRETE
D3-1	STREET NAME	6	-	2	-	-	12	-	-	-
R1-1	STOP	4	3 POUND	-	1	14	56	-	4	2
R2-1	SPEED LIMIT 30	2	3 POUND	-	1	14	28	-	-	2
R3-17	BIKE LANE	2	3 POUND	-	1	14	28	-	-	2
R3-17	BIKE LANE	1	-	2	-	-	2	-	-	-
R5-1	DO NOT ENTER	2	3 POUND	-	2	30	60	-	-	-
R5-2	NO TRUCKS	2	3 POUND	-	1	14	28	-	-	2
R6-1L	ONE WAY (LEFT)	2	3 POUND	-	1	14	28	-	-	2
R9-6	YIELD TO PEDS	2	3 POUND	-	1	14	28	-	-	2
R10-15L (MOD)	TURNING VEHICLES YIELD	2	3 POUND	-	2	30	60	-	-	4
W1-7	TWO DIRECTION LARGE ARROW	2	3 POUND	-	2	26	52	-	-	4
W11-2	PEDESTRIAN	4	3 POUND	-	1	15	60	4	-	3
SPECIAL	BUS STOP/NO STANDING	4	3 POUND	-	1	14	56	-	-	4
SPECIAL	BUS STOP/NO STANDING	1	-	2	-	-	2	-	-	-
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	2	3 POUND	-	1	14	28	-	-	2
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	2	3 POUND	-	1	14	28	-	-	2

QUANTITIES THIS SHEET

JN PW-7010	DESCRIPTION	QTY	UNIT
CAT 0001	Band, Sign	16	Ea
	Post Hole Through Conc for Steel Post	32	Ea
	Post, Steel, 3 pound	540	Ft
	Sign, Type III, Erect, Salv	20	Ea
	Sign, Type IIIA	71	Sft
	Sign, Type IIIB	129	Sft
	Sign, Type VB	16	Sft
	Reflective Panel for Permanent Sign Support, 3 foot	4	Ea
	Reflective Panel for Permanent Sign Support, 6 foot	4	Ea

PERMANENT SIGNING PLAN



REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

82

SIGN004

PLOT INFO: Z:\2019\191190\CAD\CDD\191190\_SIGN\_005.DWG LAYOUT: SIGN005 DATE: 7/19/2023 TIME: 2:07:58 PM USER: MSW\LSH

CORTLAND STREET

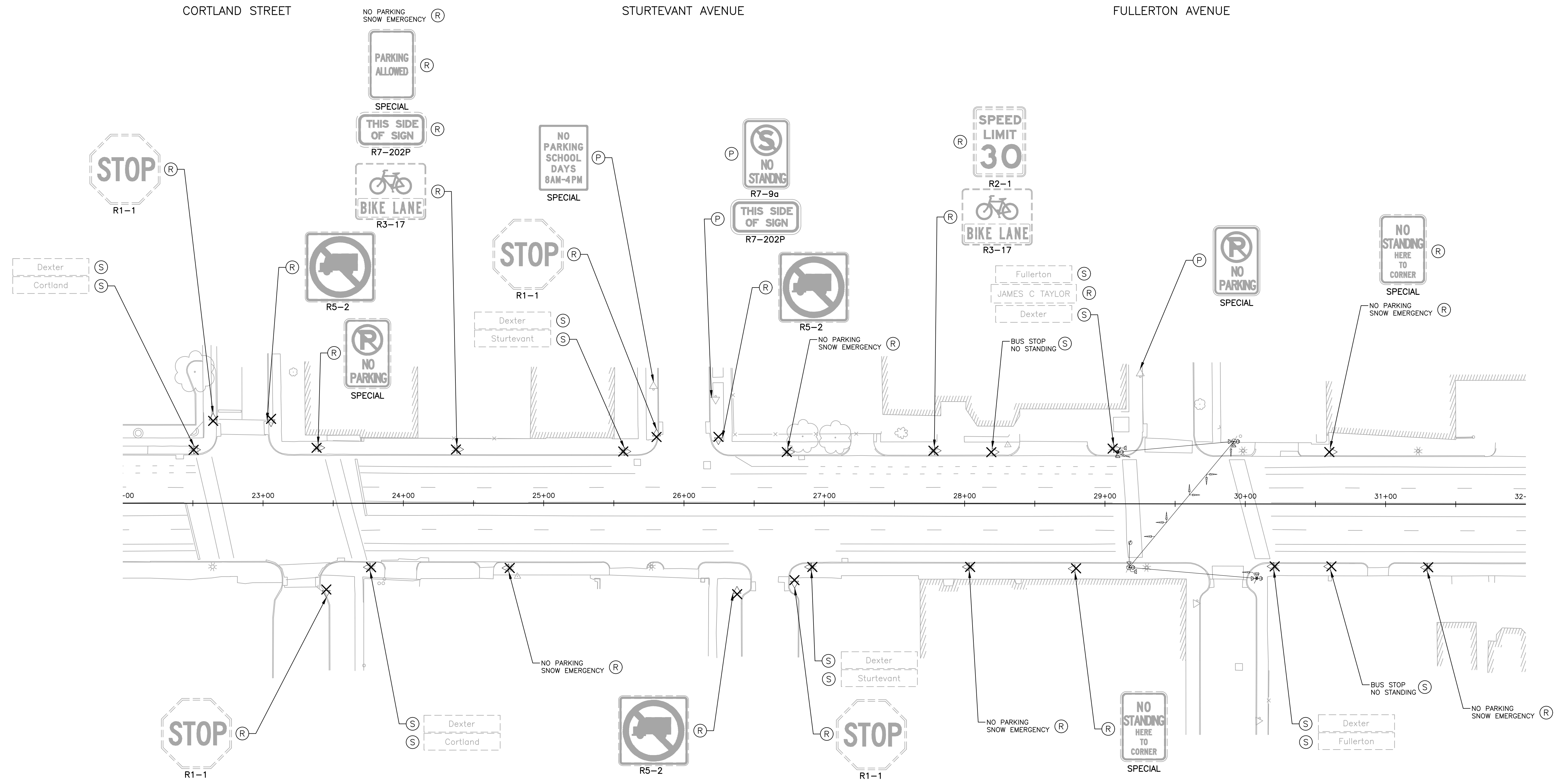
STURTEVANT AVENUE

FULLERTON AVENUE



DEXTER AVENUE

DEXTER AVENUE



**NOTES**

1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. EXISTING BUS STOP SIGNS SHALL BE REMOVED, SALVAGED AND RETURNED TO DDOT.

**SYMBOL LEGEND**

- ◁▷ EXISTING SIGN SINGLE/DOUBLE SUPPORT
- ▷▷ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
- ✕ REMOVE SIGN SUPPORT
- Ⓡ REMOVE SIGN
- Ⓝ NEW SIGN AND SUPPORT
- Ⓟ PROTECT SIGN AND SUPPORT
- Ⓢ REMOVE AND SALVAGE

**QUANTITIES THIS SHEET**

JN PW-7010	Quantity	Unit	Description
CAT 0001	22	Ea	Sign, Type III, Rem
	12	Ea	Sign, Type III, Rem, Salv
	11	Ea	Ground Mtd Sign Support, Rem

**REVISIONS**

Date	Scale	Description
07/21/2023	100% CD	
06/09/2023	90% CD	
04/28/2023	60% CD	
03/10/2023	30% CD	

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
83  
SIGN005

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE

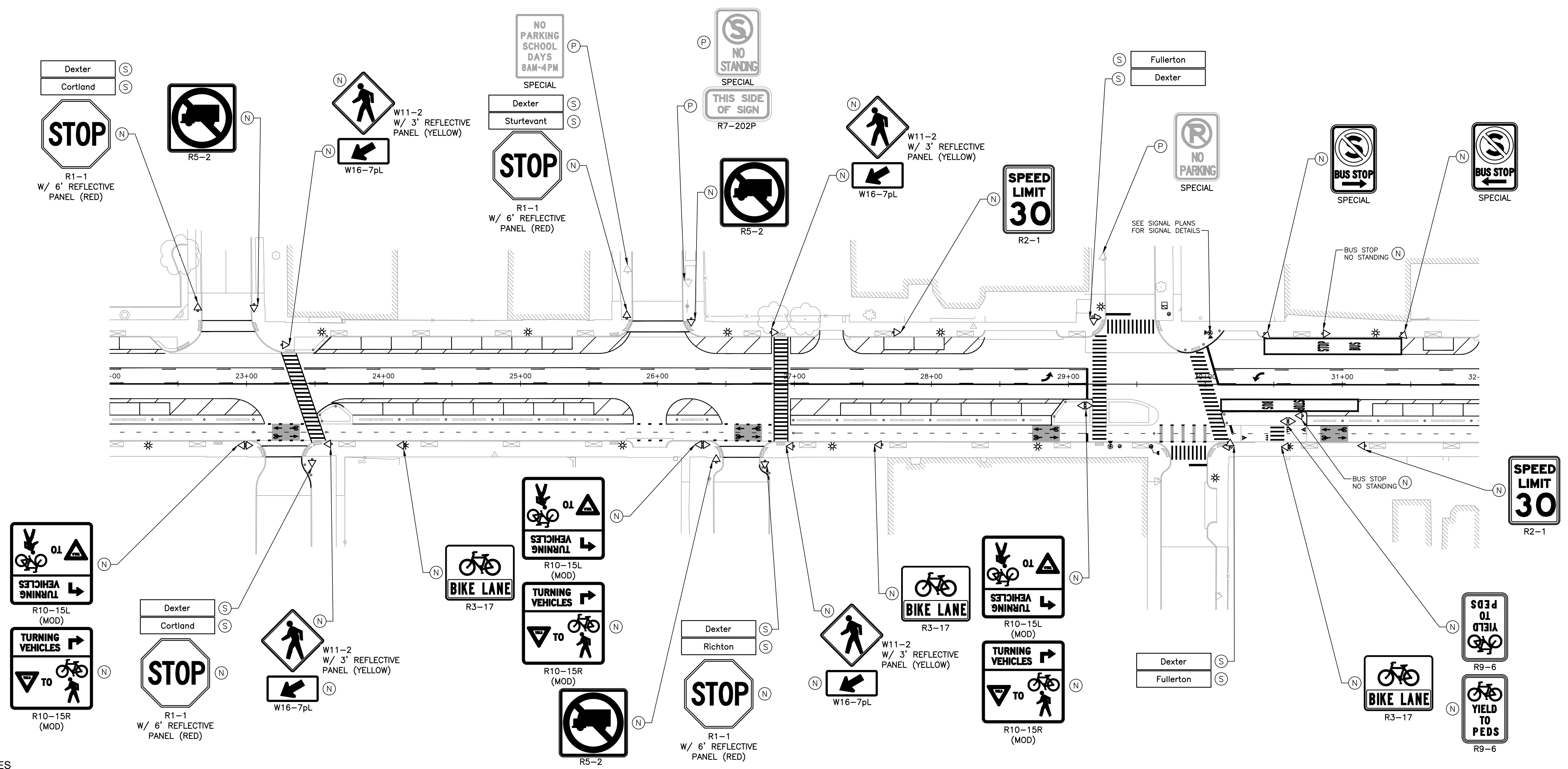
**REMOVAL SIGNING PLAN**

SCALE: 1" = 40'  
0 20 40 80



DEXTER AVENUE

DEXTER AVENUE



NOTES

1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SYMBOL LEGEND

- ◁ ▷ EXISTING SIGN SINGLE/DOUBLE SUPPORT
- ▷ ▷ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
- ✕ REMOVE SIGN SUPPORT
- Ⓡ REMOVE SIGN
- Ⓝ NEW SIGN AND SUPPORT
- Ⓟ PROTECT SIGN AND SUPPORT
- Ⓞ REMOVE AND SALVAGE

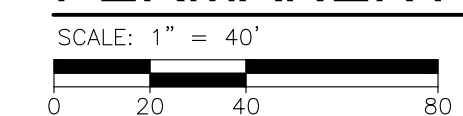
FOR INFORMATION ONLY						
PERMANENT SIGNING SUMMARY (THIS SHEET ONLY)						
SIGN	DESCRIPTION	QTY EACH	SIZE INCH X INCH	UNIT AREA SFT	TOTAL AREA SFT	SIGN TYPE
R1-1	STOP	4	30 X 30	6.25	25	IIIA
R2-1	SPEED LIMIT 30	2	24 X 30	5	10	IIIB
R3-17	BIKE LANE	3	30 X 24	5	2	IIIB
R5-2	NO TRUCKS	3	30 X 30	6.25	18.75	IIIB
R9-6	YIELD TO PEDS	2	18 X 12	1.5	3	IIIB
R10-15L (MOD)	TURNING VEHICLES YIELD	3	36 X 36	9	27	IIIB
R10-15R (MOD)	TURNING VEHICLES YIELD	3	36 X 36	9	27	IIIB
W11-2	PEDESTRIAN	4	30 X 30	6.25	25	IIIB
W16-7pL	ARROW (LEFT)	4	30 X 15	3.125	12.5	IIIB
SPECIAL	BUS STOP/NO STANDING	2	12 X 18	1.5	3	IIIA
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	12 X 18	1.5	1.5	IIIA
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	12 X 18	1.5	1.5	IIIA

FOR INFORMATION ONLY									
PERMANENT SIGN SUPPORT SUMMARY (THIS SHEET ONLY)									
SIGN	DESCRIPTION	QTY EACH	TYPE OF POST	NO. BANDS PER SIGN	NO. POSTS PER SIGN	LENGTH PER SIGN	TOTAL LENGTH OR NO. BANDS	REFLECTIVE PANEL 3 FOOT 6 FOOT	POST HOLE THROUGH CONCRETE
D3-1	STREET NAME	4	-	2	-	-	8	-	-
R1-1	STOP	4	3 POUND	-	1	14	56	-	4
R2-1	SPEED LIMIT 30	2	3 POUND	-	1	14	28	-	2
R3-17	BIKE LANE	1	3 POUND	-	1	14	14	-	1
R3-17	BIKE LANE	2	-	2	-	-	4	-	-
R5-2	NO TRUCKS	3	3 POUND	-	1	14	42	-	1
R9-6	YIELD TO PEDS	1	3 POUND	-	1	14	14	-	1
R10-15L (MOD)	TURNING VEHICLES YIELD	2	3 POUND	-	2	30	60	-	2
R10-15L (MOD)	TURNING VEHICLES YIELD	1	-	2	-	-	2	-	-
R10-15R (MOD)	TURNING VEHICLES YIELD	1	-	2	-	-	2	-	-
W11-2	PEDESTRIAN	4	3 POUND	-	1	15	60	4	4
SPECIAL	BUS STOP/NO STANDING	2	3 POUND	-	1	14	28	-	2
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	3 POUND	-	1	14	14	-	1
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	3 POUND	-	1	14	14	-	1

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
16	Ea	Band, Sign
16	Ea	Post Hole Through Conc for Steel Post
330	Ft	Post, Steel, 3 pound
14	Ea	Sign, Type III, Erect, Salv
31	Sft	Sign, Type IIIA
139	Sft	Sign, Type IIIB
4	Ea	Reflective Panel for Permanent Sign Support, 3 foot
4	Ea	Reflective Panel for Permanent Sign Support, 6 foot

PERMANENT SIGNING PLAN



REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

ROLE	NAME
Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

84

SIGN006

LESLIE STREET

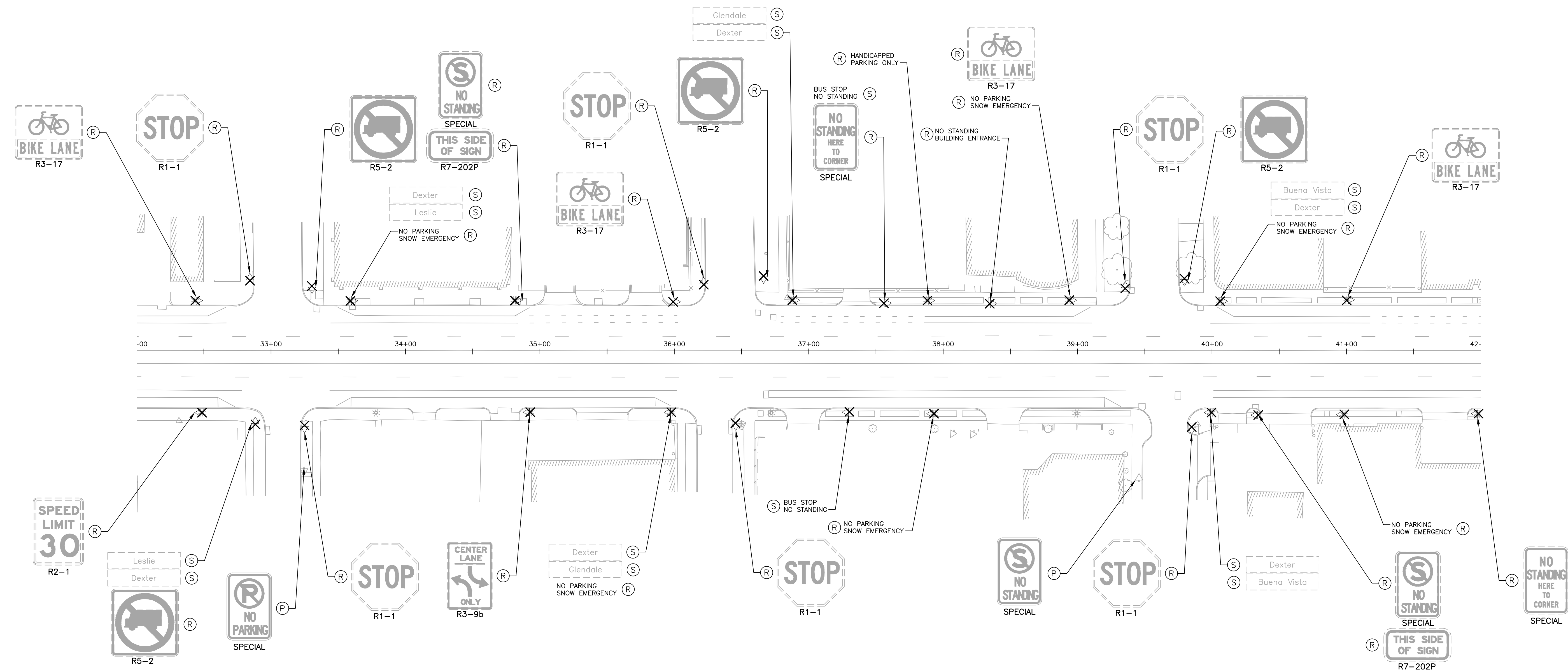
GLENDALE AVENUE

BUENA VISTA STREET



DEXTER AVENUE

DEXTER AVENUE



- NOTES**
1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  2. EXISTING BUS STOP SIGNS SHALL BE REMOVED, SALVAGED AND RETURNED TO DDOT.

- SYMBOL LEGEND**
- ◁ ▷ EXISTING SIGN SINGLE/DOUBLE SUPPORT
  - ▷ ▷ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
  - X REMOVE SIGN SUPPORT
  - (R) REMOVE SIGN
  - (N) NEW SIGN AND SUPPORT
  - (P) PROTECT SIGN AND SUPPORT
  - (S) REMOVE AND SALVAGE

**QUANTITIES THIS SHEET**

JN PW-7010	CAT 0001	Qty	Description
		30	Ea Sign, Type III, Rem
		12	Ea Sign, Type III, Rem, Salv
		16	Ea Ground Mtd Sign Support, Rem

**REVISIONS**

Date	Description
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

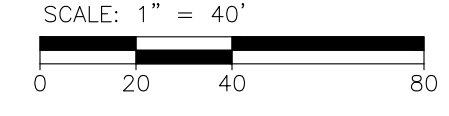
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**85**

**SIGN007**

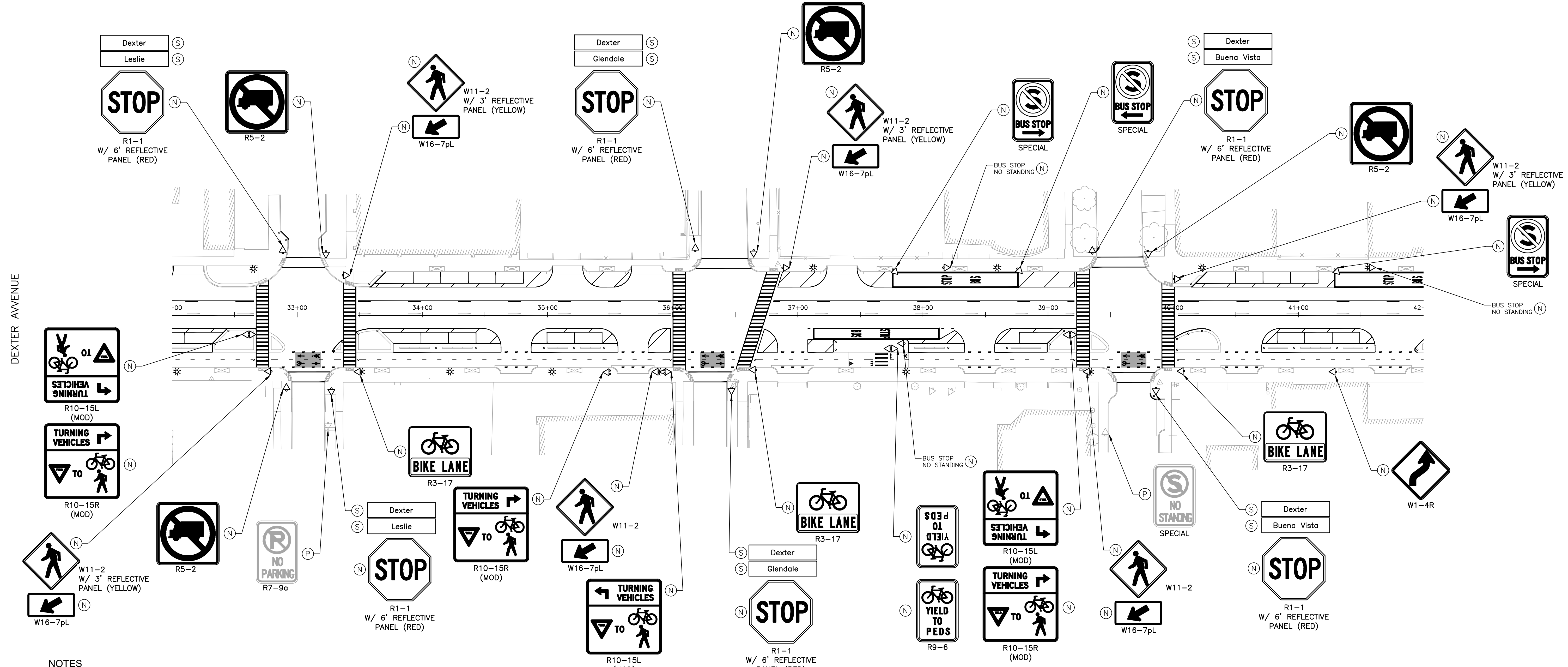
**REMOVAL SIGNING PLAN**



LESLIE STREET

GLENDALE AVENUE

BUENA VISTA STREET



NOTES  
1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

- SYMBOL LEGEND
- ◇◇ EXISTING SIGN SINGLE/DOUBLE SUPPORT
  - ◇◇ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
  - ✕ REMOVE SIGN SUPPORT
  - Ⓡ REMOVE SIGN
  - Ⓝ NEW SIGN AND SUPPORT
  - Ⓟ PROTECT SIGN AND SUPPORT
  - Ⓢ REMOVE AND SALVAGE

FOR INFORMATION ONLY  
PERMANENT SIGNING SUMMARY (THIS SHEET ONLY)

SIGN	DESCRIPTION	QTY EACH	SIZE INCH X INCH	UNIT AREA SFT	TOTAL AREA SFT	SIGN TYPE
R1-1	STOP	6	30 X 30	6.25	37.5	IIIA
R3-17	BIKE LANE	3	30 X 24	5	2	IIIB
R5-2	NO TRUCKS	4	30 X 30	6.25	25	IIIB
R9-6	YIELD TO PEDS	2	18 X 12	1.5	3	IIIB
R10-15L (MOD)	TURNING VEHICLES YIELD	3	36 X 36	9	27	IIIB
R10-15R (MOD)	TURNING VEHICLES YIELD	3	36 X 36	9	27	IIIB
W1-4R	REVERSE CURVE	1	30 X 30	6.25	6.25	IIIB
W11-2	PEDESTRIAN	6	30 X 30	6.25	37.5	IIIB
W16-7pL	ARROW (LEFT)	6	30 X 15	3.125	18.75	IIIB
SPECIAL	BUS STOP/NO STANDING	3	12 X 18	1.5	4.5	IIIA
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	12 X 18	1.5	1.5	IIIA
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	2	12 X 18	1.5	3	IIIA

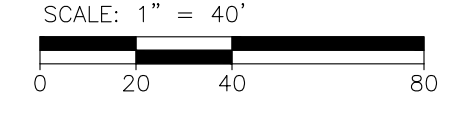
FOR INFORMATION ONLY  
PERMANENT SIGN SUPPORT SUMMARY (THIS SHEET ONLY)

SIGN	DESCRIPTION	QTY EACH	TYPE OF POST	NO. BANDS PER SIGN	NO. POSTS PER SIGN	LENGTH PER SIGN	REFLECTIVE PANEL		POST HOLE THROUGH CONCRETE
							3 FOOT	6 FOOT	
R1-1	STOP	6	3 POUND	-	1	14	84	6	4
R3-17	BIKE LANE	2	3 POUND	-	1	14	28	-	2
R3-17	BIKE LANE	1	-	2	-	-	2	-	-
R5-2	NO TRUCKS	4	3 POUND	-	1	14	56	-	-
R9-6	YIELD TO PEDS	1	3 POUND	-	1	14	14	-	1
R10-15L (MOD)	TURNING VEHICLES YIELD	3	3 POUND	-	2	30	90	-	2
R10-15R (MOD)	TURNING VEHICLES YIELD	1	3 POUND	-	2	30	30	-	2
W1-4R	REVERSE CURVE	1	3 POUND	-	1	14	14	-	1
W11-2	PEDESTRIAN	4	3 POUND	-	1	15	60	4	4
W11-2	PEDESTRIAN	2	-	2	-	-	4	-	-
W16-7pL	ARROW (LEFT)	2	-	2	-	-	4	-	-
SPECIAL	BUS STOP/NO STANDING	2	3 POUND	-	1	14	28	-	2
SPECIAL	BUS STOP/NO STANDING	1	-	2	-	-	2	-	-
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	1	3 POUND	-	1	14	14	-	1
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	2	3 POUND	-	1	14	28	-	2

QUANTITIES THIS SHEET

JN PW-7010	EA	DESCRIPTION
CAT 0001	12	Band, Sign
	21	Post Hole Through Conc for Steel Post
	446	Post, Steel, 3 pound
	14	Sign, Type III, Erect, Salv
	47	Sign, Type IIIA
	160	Sign, Type IIIB
	4	Reflective Panel for Permanent Sign Support, 3 foot
	6	Reflective Panel for Permanent Sign Support, 6 foot

PERMANENT SIGNING PLAN



REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
86  
SIGN008

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGN\_008.DWG LAYOUT: SIGN008 DATE: 7/19/2023 TIME: 2:14:44 PM USER: KPAWLOVSKI

TYLER STREET

WAVERLY STREET

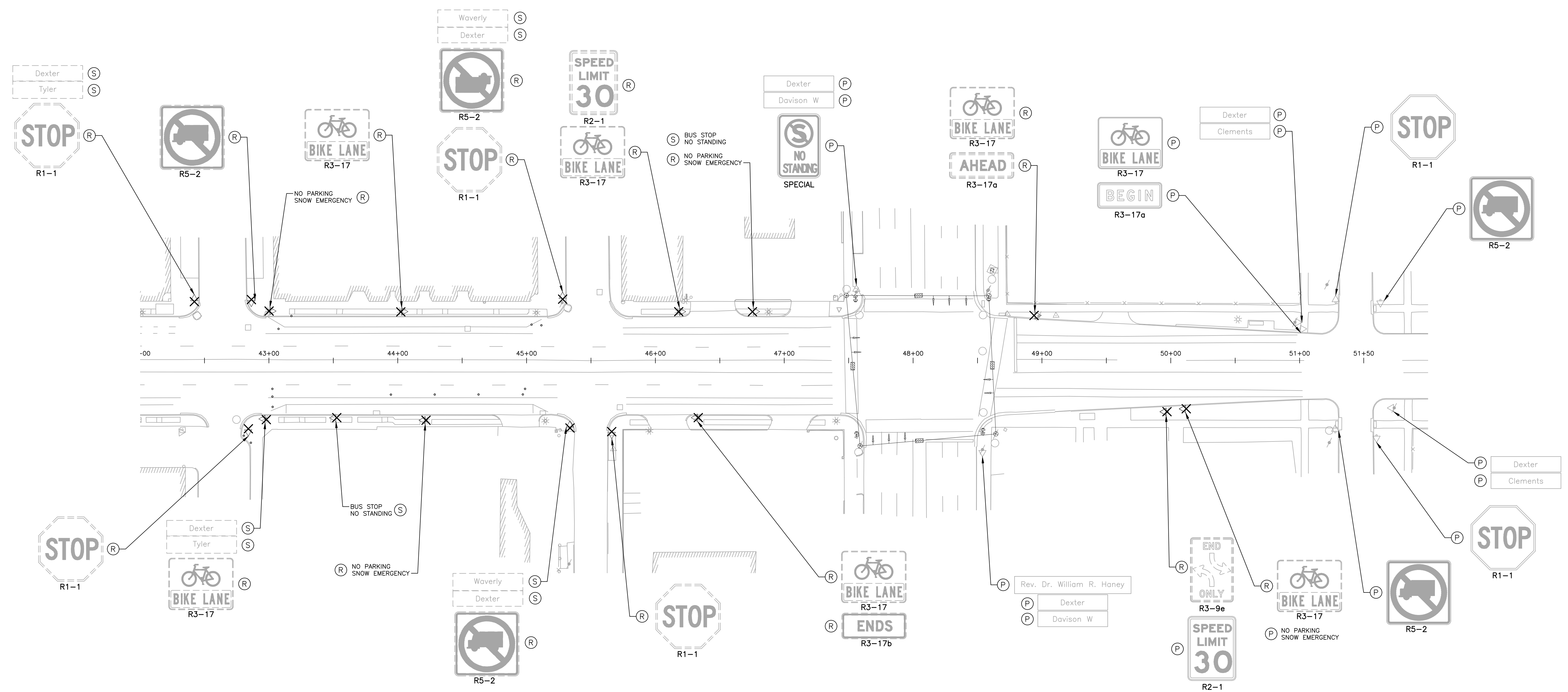
W DAVISON STREET

CLEMENTS STREET



DEXTER AVENUE

DEXTER AVENUE



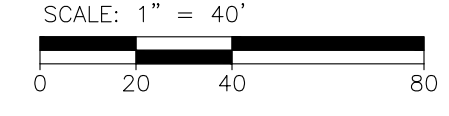
- NOTES**
1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  2. EXISTING BUS STOP SIGNS SHALL BE REMOVED, SALVAGED AND RETURNED TO DDOT.

- SYMBOL LEGEND**
- ◇◇◇ EXISTING SIGN SINGLE/DOUBLE SUPPORT
  - ◀▶▶ PROPOSED SIGN SINGLE/DOUBLE SUPPORT
  - ✕ REMOVE SIGN SUPPORT
  - Ⓡ REMOVE SIGN
  - Ⓝ NEW SIGN AND SUPPORT
  - Ⓟ PROTECT SIGN AND SUPPORT
  - Ⓢ REMOVE AND SALVAGE

**QUANTITIES THIS SHEET**

JN PW-7010	CAT 0001	QTY	DESCRIPTION
		20	Sign, Type III, Rem
		8	Sign, Type III, Rem, Salv
		5	Ground Mtd Sign Support, Rem

**REMOVAL SIGNING PLAN**



**REVISIONS**

DATE	DESCRIPTION	CD
07/21/2023	100% CD	
06/09/2023	90% CD	
04/28/2023	60% CD	
03/10/2023	30% CD	

Drawn By MSW  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**87**

**SIGN009**

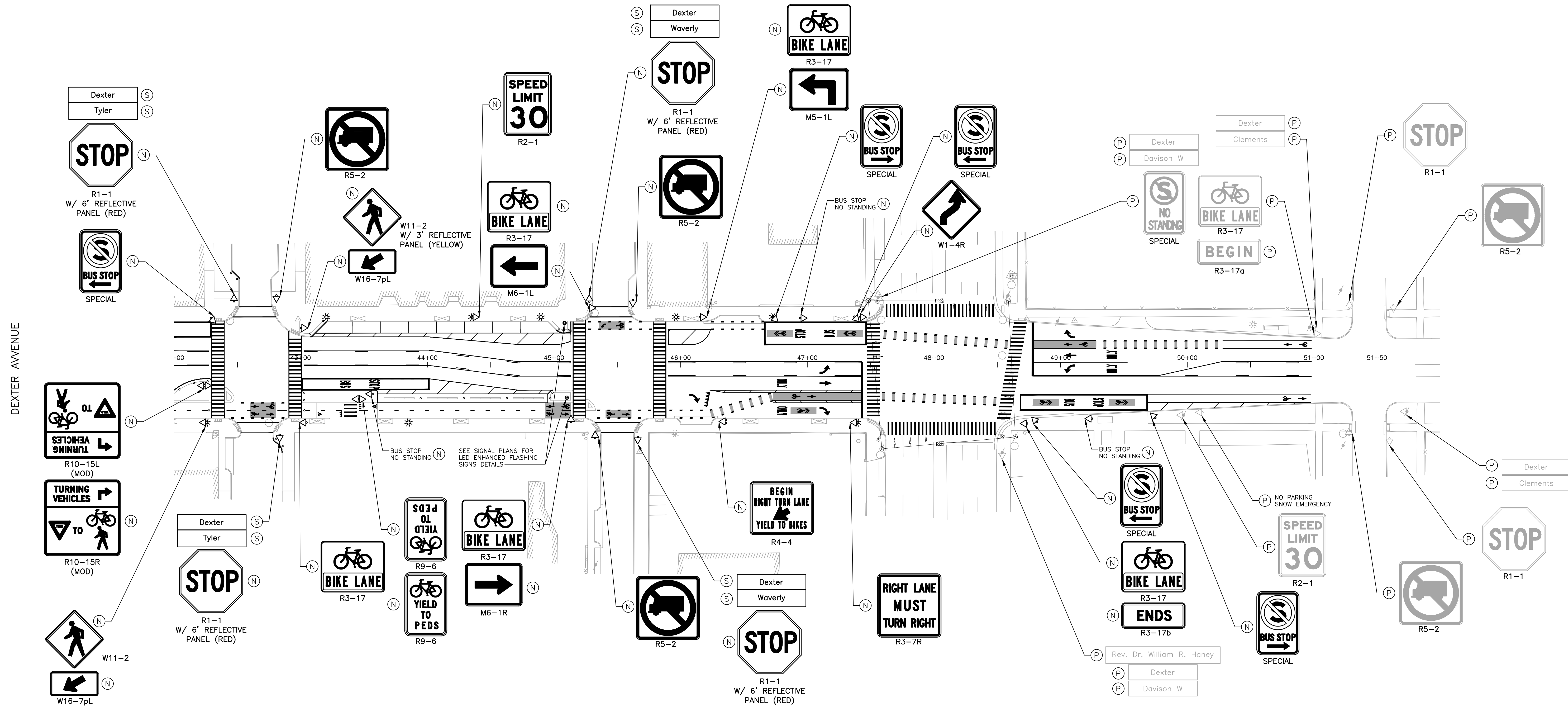
PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGN\_009.DWG LAYOUT: SIGN009 DATE: 7/19/2023 TIME: 2:17:04 PM USER: MSWALSH

TYLER STREET

WAVERLY STREET

W DAVISON STREET

CLEMENTS STREET



NOTES  
1. ALL SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SYMBOL LEGEND  
◇◇ EXISTING SIGN SINGLE/DOUBLE SUPPORT  
◇◇ PROPOSED SIGN SINGLE/DOUBLE SUPPORT  
X REMOVE SIGN SUPPORT  
Ⓞ REMOVE SIGN  
Ⓝ NEW SIGN AND SUPPORT  
Ⓟ PROTECT SIGN AND SUPPORT  
Ⓠ REMOVE AND SALVAGE

FOR INFORMATION ONLY  
PERMANENT SIGNING SUMMARY (THIS SHEET ONLY)

SIGN	DESCRIPTION	QTY EACH	SIZE INCH X INCH	UNIT AREA SFT	TOTAL AREA SFT	SIGN TYPE
M5-1L	ADVANCE LEFT	1	21 X 15	2.2	2.2	IIIB
M6-1L	LEFT	1	21 X 15	2.2	2.2	IIIB
M6-1R	RIGHT	1	21 X 15	2.2	2.2	IIIB
R1-1	STOP	4	30 X 30	6.25	25	IIIA
R2-1	SPEED LIMIT 30	1	24 X 30	5	5	IIIB
R3-7R	RIGHT LANE MUST TURN RIGHT	1	36 X 36	9	9	IIIB
R3-17	BIKE LANE	5	30 X 24	5	25	IIIB
R3-17b	ENDS	1	30 X 12	2.5	2.5	IIIB
R4-4	BEGIN RIGHT TURN LANE YIELD TO BIKES	1	36 X 30	7.5	7.5	IIIB
R5-2	NO TRUCKS	3	30 X 30	6.25	18.75	IIIB
R9-6	YIELD TO PEDS	2	18 X 12	1.5	3	IIIB
R10-15L (MOD)	TURNING VEHICLES YIELD	1	36 X 36	9	9	IIIB
R10-15R (MOD)	TURNING VEHICLES YIELD	1	36 X 36	9	9	IIIB
W1-4R	REVERSE CURVE	1	30 X 30	6.25	6.25	IIIB
W11-2	PEDESTRIAN	2	30 X 30	6.25	12.5	IIIB
W16-7pL	ARROW (LEFT)	2	30 X 15	3.125	6.25	IIIB
SPECIAL	BUS STOP/NO STANDING	3	12 X 18	1.5	4.5	IIIA
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	3	12 X 18	1.5	4.5	IIIA
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	2	12 X 18	1.5	3	IIIA

FOR INFORMATION ONLY  
PERMANENT SIGN SUPPORT SUMMARY (THIS SHEET ONLY)

SIGN	DESCRIPTION	QTY EACH	TYPE OF POST	NO. BANDS PER SIGN	NO. POSTS PER SIGN	LENGTH PER SIGN	TOTAL LENGTH OR NO. BANDS	REFLECTIVE PANEL 3 FOOT	REFLECTIVE PANEL 6 FOOT	POST HOLE THROUGH CONCRETE
M6-1L	LEFT	1	-	2	-	-	2	-	-	-
R1-1	STOP	4	3 POUND	-	1	14	56	-	4	4
R2-1	SPEED LIMIT 30	1	-	2	-	-	2	-	-	-
R3-7R	RIGHT LANE MUST TURN RIGHT	1	-	2	-	-	2	-	-	-
R3-17	BIKE LANE	1	-	2	-	-	2	-	-	-
R3-17	BIKE LANE	4	3 POUND	-	1	14	56	-	-	4
R4-4	BEGIN RIGHT TURN LANE YIELD TO BIKES	1	3 POUND	-	2	28	28	-	-	2
R5-2	NO TRUCKS	3	3 POUND	-	1	14	42	-	-	3
R9-6	YIELD TO PEDS	1	3 POUND	-	1	14	14	-	-	1
R10-15L (MOD)	TURNING VEHICLES YIELD	1	3 POUND	-	2	30	30	-	-	-
W1-4R	REVERSE CURVE	1	3 POUND	-	1	14	14	-	-	1
W11-2	PEDESTRIAN	1	3 POUND	-	1	15	15	1	-	1
W11-2	PEDESTRIAN	1	-	2	-	-	2	-	-	-
W16-7pL	ARROW (LEFT)	2	-	2	-	-	4	-	-	-
SPECIAL	BUS STOP/NO STANDING	3	3 POUND	-	1	14	42	-	-	3
SPECIAL	NO STANDING/BUS STOP/LEFT ARROW	3	3 POUND	-	1	14	42	-	-	3
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	3 POUND	-	1	14	14	-	-	-
SPECIAL	NO STANDING/BUS STOP/RIGHT ARROW	1	-	2	-	-	2	-	-	-

QUANTITIES THIS SHEET  
JN PW-7010  
CAT 0001

16	Ea	Band, Sign
23	Ea	Post Hole Through Conc for Steel Post
353	Ft	Post, Steel, 3 pound
10	Ea	Sign, Type III, Erect, Salv
42	Sft	Sign, Type IIIA
129	Sft	Sign, Type IIIB
1	Ea	Reflective Panel for Permanent Sign Support, 3 foot
4	Ea	Reflective Panel for Permanent Sign Support, 6 foot

PERMANENT SIGNING PLAN  
SCALE: 1" = 40'  
0 20 40 80

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_SIGN\_010.DWG LAYOUT: SIGN010 DATE: 7/19/2023 TIME: 2:19:21 PM USER: KPAWLOVSKI

REVISIONS

DATE	DESCRIPTION
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190  
SHEET NO.  
88  
SIGN010



REVISIONS

07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**89**  
**TSLEG001**

**LEGEND SHEET**

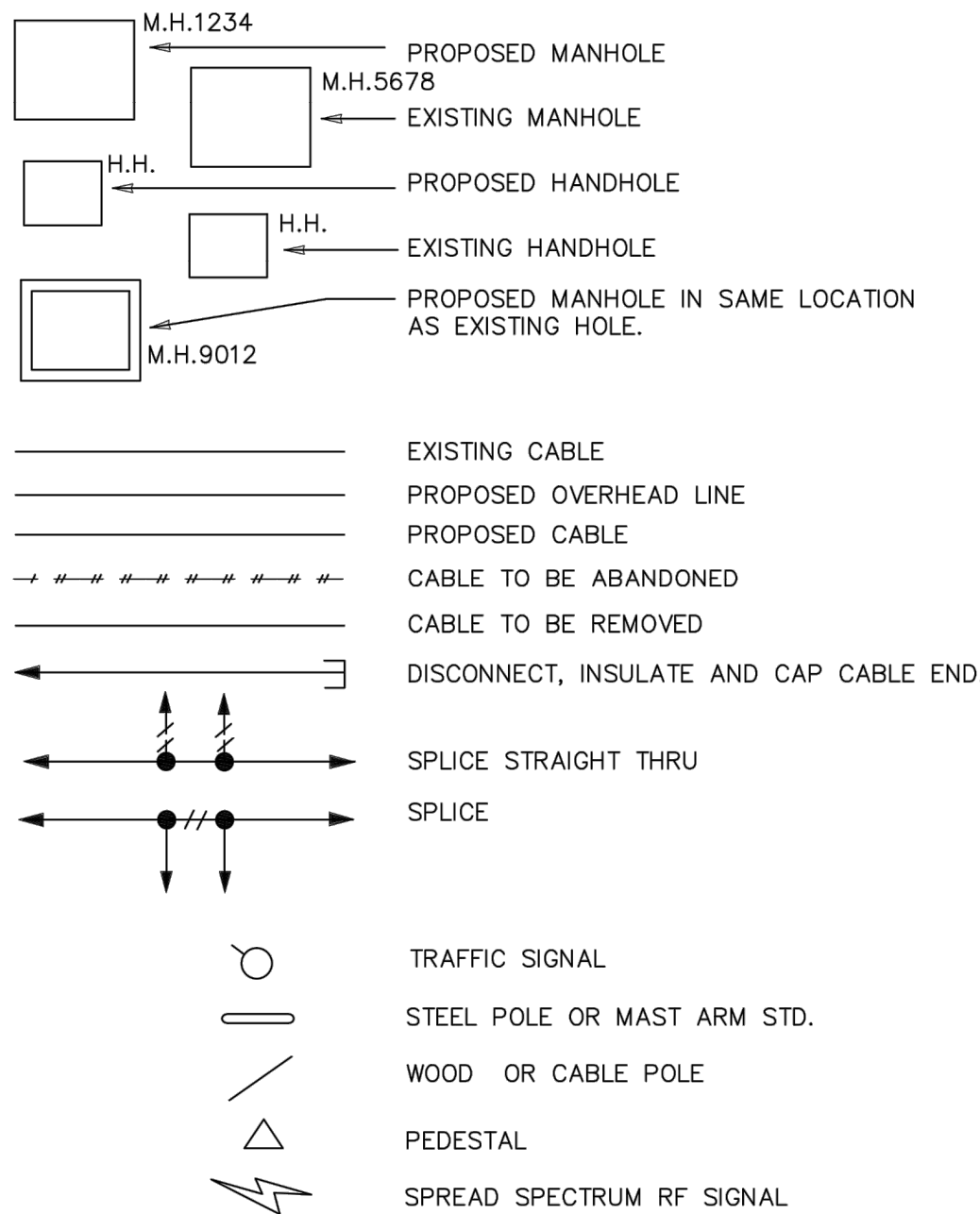
UNDERGROUND

- (-) WATER SHUTOFF
- ⊕ FIRE HYDRANT
- EXISTING MANHOLE
- EXISTING HANDHOLE
- EXISTING SINGLE DUCT RUN
- EXISTING MULTIPLE DUCT RUN
- - - ABANDON EXISTING DUCT RUN
- - - - EXISTING DIRECT BURIAL OR PARKWAY CABLE
- - - - ABANDON DIRECT BURIAL OR PARKWAY CABLE
- - - - INSTALL DIRECT BURIAL CABLE (NO. AND SIZE WILL BE SHOWN)
- 6-5" E.C. BUILD ENCASED CONDUIT (E.C.) (6-5" SHOWN)
- 2-3" D.B. INSTALL DIRECT BURIAL CONDUIT (D.B.) (2-3" SHOWN)
- 2-4" J.B. GALVANIZED IRON CONDUIT JACKED-BORED (J.B.) (2-4" SHOWN)
- M.H.5678 BUILD NEW MANHOLE (2-WAY)
- M.H.9012 BUILD NEW MANHOLE (3-WAY)
- M.H.3456 BUILD NEW MANHOLE (4-WAY)
- M.H.7890 BUILD NEW MANHOLE (CORNER)
- BUILD ROUND HANDHOLE
- BUILD POLYMER CONCRETE HANDHOLE
- ⊕ BUILD TYPE "S" HANDHOLE
- ⊖ BUILD TYPE "D" HANDHOLE
- ☼ EXISTING UNDERGROUND-FED ST.LTG. UNIT AND FOUNDATION
- ☼ REMOVE UNDERGROUND-FED ST.LTG. UNIT AND FOUNDATION (EXCEPT AS OTHERWISE NOTED)
- ☼ INSTALL CODE 009-00,010-06, OR 118-06 AS NOTED ST. LTG. UNIT ON BRIDGE OR NEW FDN. INSTALL LUMINAIRE (SALVAGED), EXCEPT WHERE OTHERWISE NOTED. ANCHOR BOLTS IN BRIDGE DECK ON PLAN BY OTHERS
- ☼ SALVAGED UNDERGROUND-FED ST. LTG. UNIT ON NEW FOUNDATION.
- "T" INDICATES TRAFFIC SIGNAL CONTACT ON ST. LTG. STD.

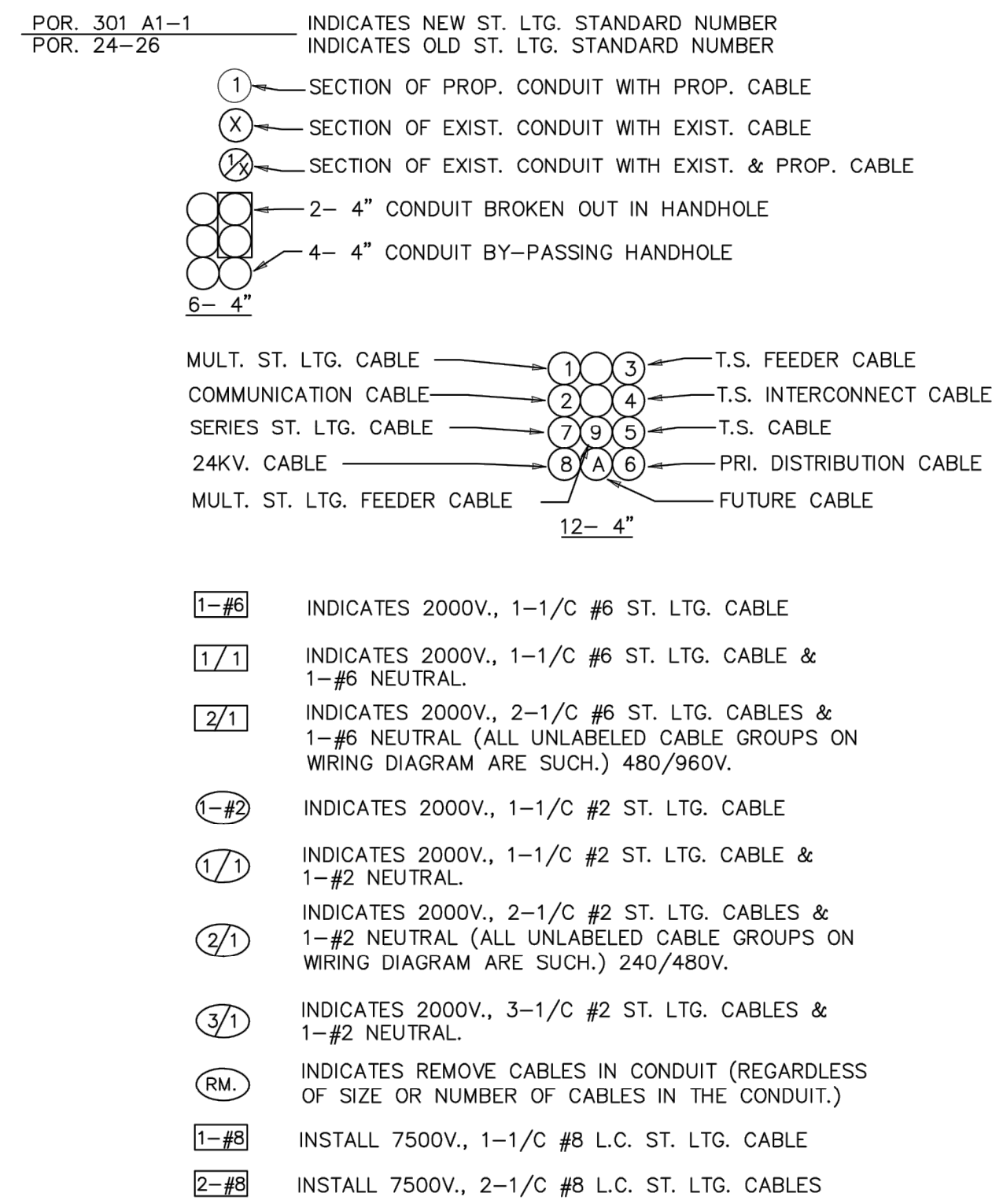
SEE DETAILS FOR SIZES & SHAPES OF HOLES

DIAGRAMS

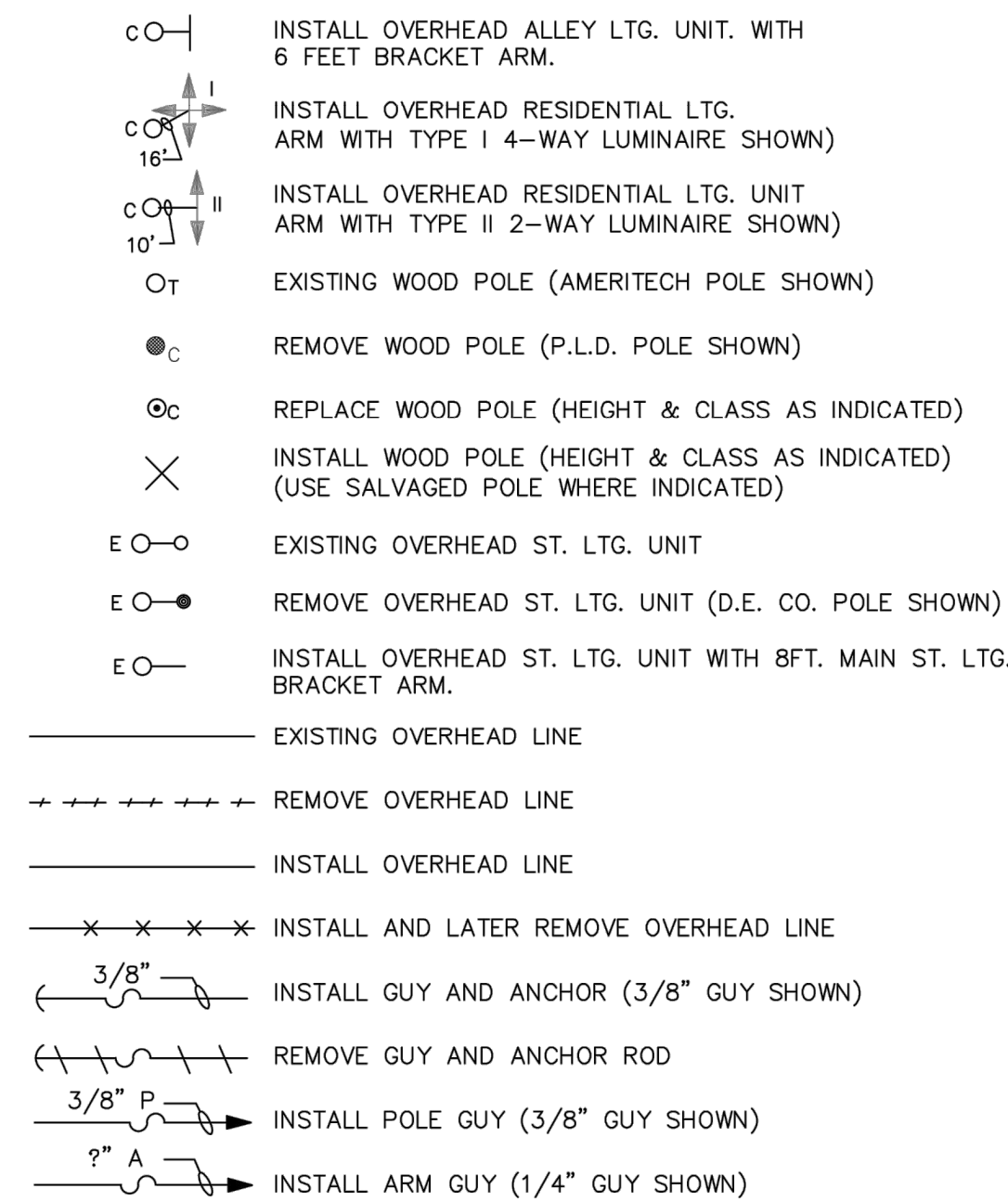
(U.G.-FED. ST. LTG. STD. SYMBOLS ARE THE SAME AS THE UNDERGROUND LEGEND ON THIS SHEET).



DIAGRAMS



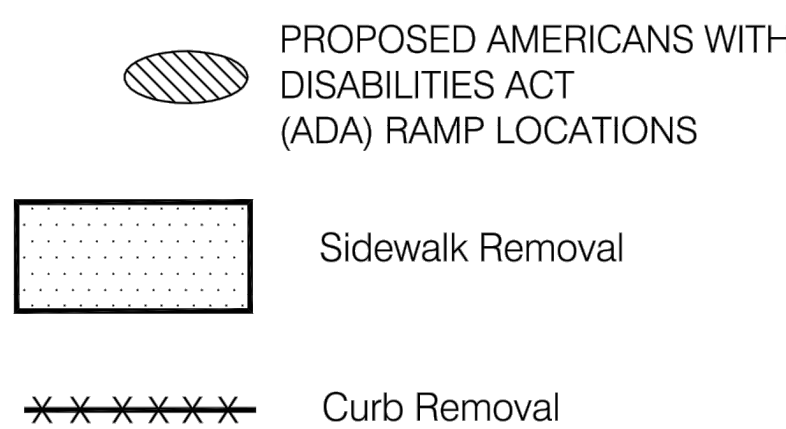
OVERHEAD



OVERHEAD

- P OR A REMOVE GUY (POLE OR ARM GUY WILL BE INDICATED)
- RM. MATERIALS TO BE REMOVED
- IN. MATERIALS TO BE INSTALLED
- C.P. CABLE POLE
- EX. EXISTING MATERIALS
- M.S.S. MAKE WOOD POLE SELF-SUPPORTING IN CRUSHED STONE
- XYZ PHASES OF P.L.D. DISTRIBUTION WIRES OR EQUIPMENT
- E D.E. CO. DISTRIBUTION WIRE
- es D.E. SECONDARY WIRE
- (C) INSTALL SUSPENSION INSULATOR
- EXISTING PROPOSED C P.L.D. DISTRIBUTION WIRE
- EXISTING PROPOSED Cs P.L.D. SECONDARY WIRE
- EXISTING PROPOSED A P.L.D. SERIES ST. LTG. WIRE
- EXISTING PROPOSED M P.L.D. MULT. ST. LTG. WIRE
- GUARD RAIL (CONCRETE)
- GUARD RAIL (STEEL)
- CENTER LINE (CL)
- PROPERTY LINE (PL) OR RIGHT OF WAY (ROW)
- PAVEMENT JOINTLINE AND CURB
- EXISTING CURB LINE
- PROPOSED CURB LINE
- (S) EXISTING STORM LINE
- (C) EXISTING SEWER LINE, MANHOLE & CATCH BASIN
- (E) EXISTING DETROIT EDISON UNDERGROUND LINE & M.H.
- (T) EXISTING TELEPHONE UNDERGROUND LINE & MANHOLE
- OT EXISTING TELEPHONE OVERHEAD LINE
- (G) EXISTING GAS LINE & VALVE
- (W) EXISTING WATER LINE & GATEWELL
- (P) EXISTING DETROIT PUBLIC LIGHTING UNDERGROUND LINE & H.H.
- (ST) EXISTING UNDERGROUND STEAM LINE
- EXISTING R.R. TRACKS
- EXISTING STREETCAR TRACKS
- EXISTING FENCE
- ⊕ EXISTING PUBLIC TELEPHONE
- ⊕ EXISTING TELEPHONE CONTROL BOX
- △ EXISTING TRANSFORMER
- ▲ NEW TRANSFORMER
- EXISTING R.R. CROSSING GATE AND FLASHERS
- EXISTING R.R. FLASHERS
- EXISTING R.R. CROSSING MAST ARM AND FLASHERS
- B EXISTING DOUBLE POST SIGN (TYPE SHOWN ON PLANS)
- B INSTALL DOUBLE POST SIGN (TYPE SHOWN ON PLANS)
- b EXISTING SINGLE POST SIGN (TYPE SHOWN ON PLANS)
- b INSTALL SINGLE POST SIGN (TYPE SHOWN ON PLANS)
- EXISTING MAST ARM ROAD SIGN (TYPE SHOWN ON PLANS)

ADA RAMP



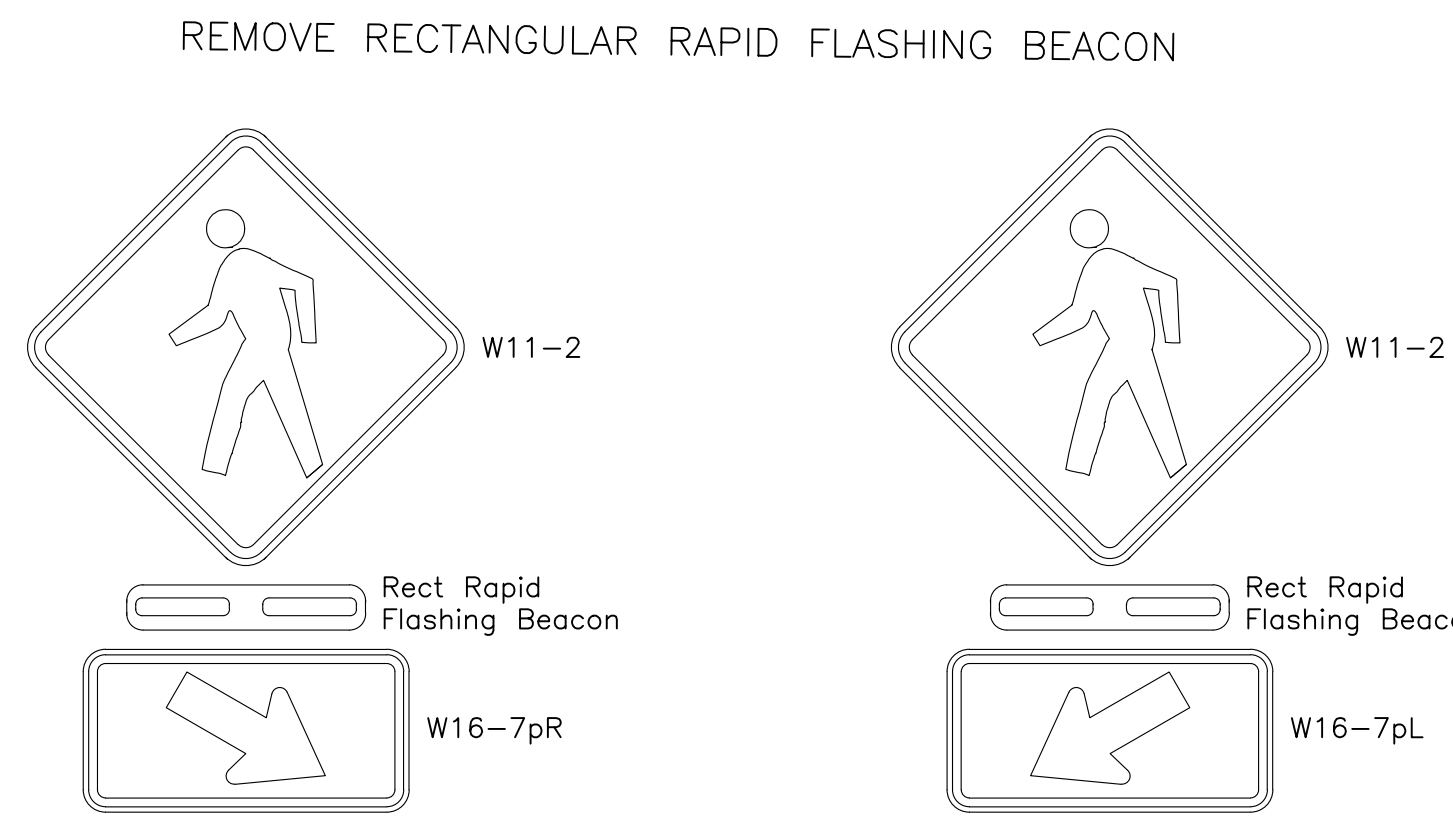
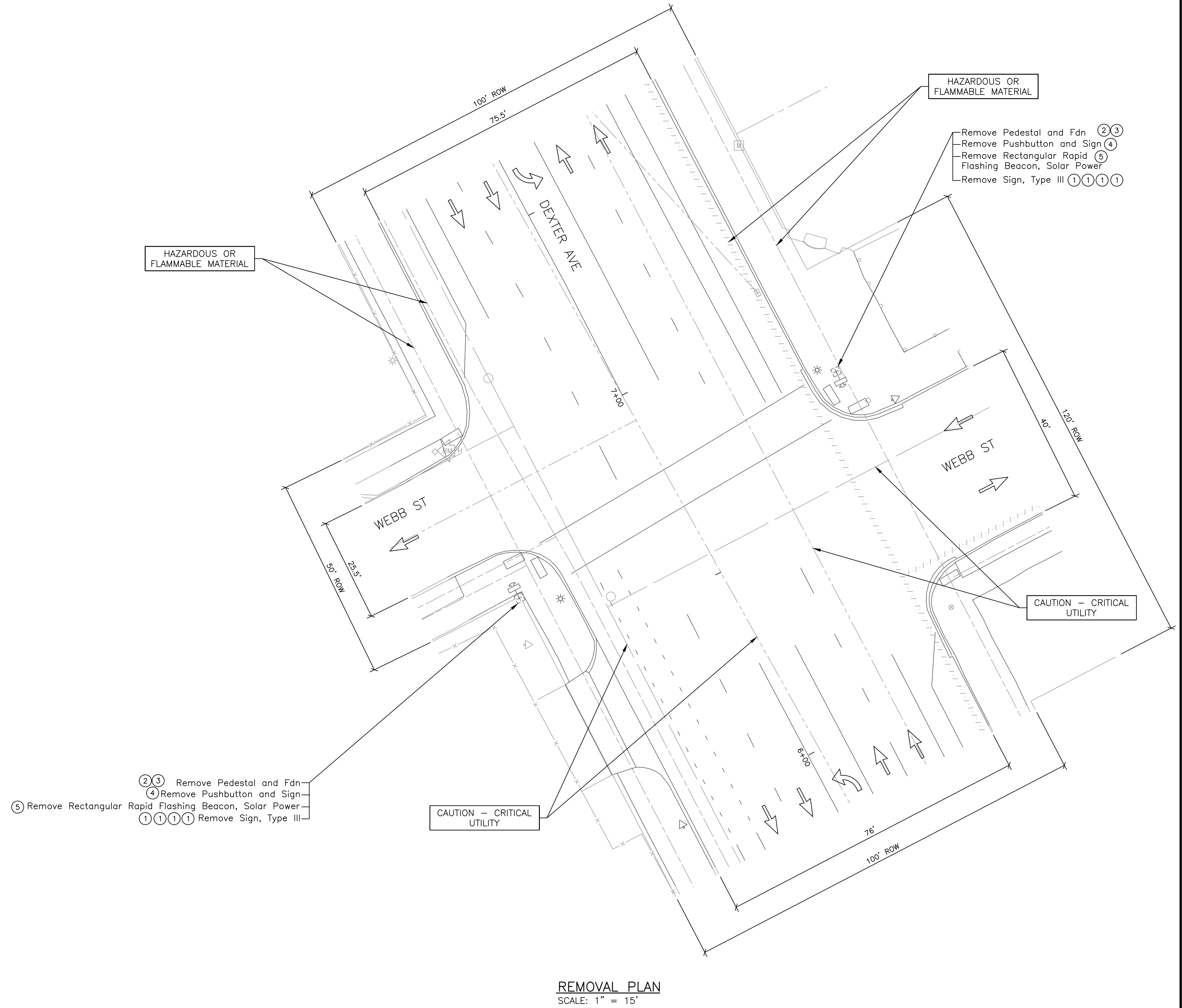
TRAFFIC SIGNAL

- INSTALL 3-SECTION TRAFFIC SIGNAL WITH SALVAGED HEADS (2-WAY SHOWN)
- REMOVE 3-SECTION TRAFFIC SIGNAL (3-WAY SHOWN)
- EXISTING 3-SECTION TRAFFIC SIGNAL (4-WAY SHOWN)
- INSTALL 3-SECTION 12" TRAFFIC SIGNAL (1-WAY SHOWN) (EXCEPT AS OTHERWISE NOTED)
- EXISTING 1 OR 2-SECTION 12" TRAFFIC SIGNAL FLASHERS
- INSTALL 1 OR 2-SECTION 12" TRAFFIC SIGNAL FLASHERS
- INSTALL TWO-WAY ILLUMINATED CASE SIGN
- INSTALL TWO-WAY ILLUMINATED CASE SIGN (SALVAGED)
- REMOVE TWO-WAY ILLUMINATED CASE SIGN
- EXISTING TWO-WAY ILLUMINATED CASE SIGN
- INSTALL FOUR-WAY ILLUMINATED CASE SIGN
- INSTALL FOUR-WAY ILLUMINATED CASE SIGN (SALVAGED)
- REMOVE FOUR-WAY ILLUMINATED CASE SIGN
- EXISTING FOUR-WAY ILLUMINATED CASE SIGN
- INSTALL 1-SECTION, 16" L.E.D. PEDESTRIAN (WALK-DON'T WALK) WITH COUNTDOWN TIMER TRAFFIC SIGNAL (2-WAY SHOWN)
- INSTALL 1-SECTION, 16" L.E.D. PEDESTRIAN (WALK-DON'T WALK) WITH COUNTDOWN TIMER TRAFFIC SIGNAL WITH SALVAGED HEAD (2-WAY SHOWN)
- REMOVE 1-SECTION/2-SECTION, PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
- EXISTING 1-SECTION/2-SECTION, PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
- INSTALL TRAFFIC SIGNAL CONTROLLER (NEW OR SALVAGED AS SHOWN) (EXCEPT AS OTHERWISE NOTED).
- INSTALL MAST ARM STD. & MAST ARM ON NEW FOUNDATION (EXCEPT AS OTHERWISE NOTED).
- INSTALL TRAFFIC SIGNAL PEDESTAL ON NEW FOUNDATION (EXCEPT AS OTHERWISE NOTED).
- INSTALL ANCHOR BASE STEEL STRAIN POLE ON NEW FOUNDATION (EXCEPT AS OTHERWISE NOTED).(USE 18" BOLT CIRCLE FOR ALL NEW STRAIN POLES).
- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING MAST ARM STANDARD
- EXISTING PEDESTAL
- EXISTING STEEL STRAIN POLE
- INSTALL OVERHEAD PLASTIC JACKETED CABLE (P.J.)
- EXISTING OVERHEAD PLASTIC JACKETED CABLE (P.J.)
- REMOVE OVERHEAD PLASTIC JACKETED CABLE (P.J.)
- INSTALL JUNCTION BOX (J.B.)
- INSTALL SALVAGED JUNCTION BOX (J.B.)
- REMOVE JUNCTION BOX (J.B.)
- EXISTING JUNCTION BOX (J.B.)
- EXISTING LOOP DETECTOR
- INSTALL LOOP DETECTOR
- POCH POLE CONTACT HEIGHT OF TRAFFIC SIGNAL SPAN WIRE
- L.C.H. LOWEST CONTACT HEIGHT OF TRAFFIC SIGNAL TO SPAN WIRE.
- REMOVE HOOD AND INSTALL LAMPS (INCIDENTAL TO INSTALLATION OF TRAFFIC SIGNAL ON THIS CONTRACT)
- BACK-OUT LAMPS AND HOOD (SIGNALS INCLUDED IN THE INSTALLATION OF TRAFFIC SIGNAL ON THIS CONTRACT).
- EXISTING STOP BAR
- STOP BAR TO BE INSTALLED
- INSTALL 12" YELLOW LED SOLAR ACTIVATED BEACON SIGNAL HEAD
- 900MHZ RADIO SYSTEM
- 5.8MHZ RADIO SYSTEM
- MICROWAVE VEHICLE DETECTOR
- EVP, GPS, SYSTEM
- VIDEO DETECTION CAMERA
- PTZ CAMERA ASSEMBLY
- WIRELESS ETHERNET SYSTEM
- INSTALL WIRELESS SENSOR NODE ("PUCK" DETECTOR)
- INSTALL ACCESS POINT (FOR "PUCK" DETECTOR)

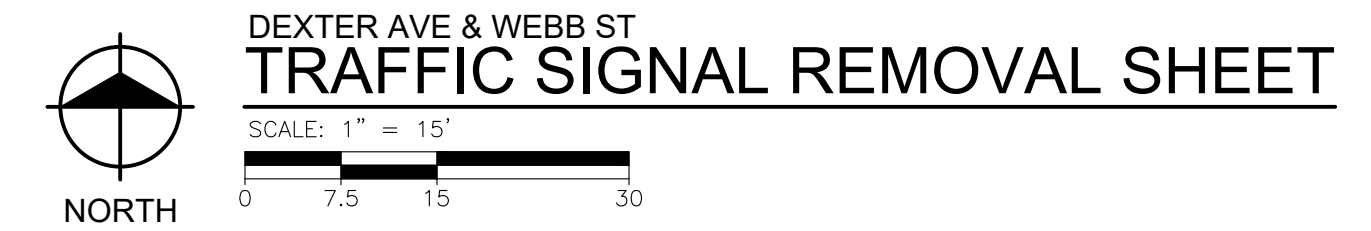
LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	Sign, Type III, Rem	8 Ea	8100403
②	Pedestal Fdn, Rem	2 Ea	8200106
③	Pedestal, Rem	2 Ea	8200110
④	Pushbutton, Rem	2 Ea	8200122
⑤	_Flash Beacon, Rectangular Rapid, Solar Power, Rem	2 Ea	8207050

NOTES:

- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT. CONTACT MONIQUE WALTHALL OF THE CITY OF DETROIT DPW SIGN SHOP AT 313-628-4246 FOR TRANSFER OF CITY SIGNS, STREET NAME OR OTHERWISE. THIS MUST BE DONE AT LEAST 72 HOURS PRIOR TO REMOVAL OF ANY POLES OR OTHER EQUIPMENT TO WHICH THEY ARE ATTACHED.
- ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.
- ALL FOUNDATIONS THAT ARE TO BE REMOVED, SHALL BE REMOVED FULL DEPTH. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVE THAT THE FOUNDATIONS HAVE BEEN COMPLETELY REMOVED.



REMOVAL PLAN  
SCALE: 1" = 15'



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_002.DWG LAYOUT: TSREM001 DATE: 7/19/2023 TIME: 12:12:24 PM USER: MSW\ALSH



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

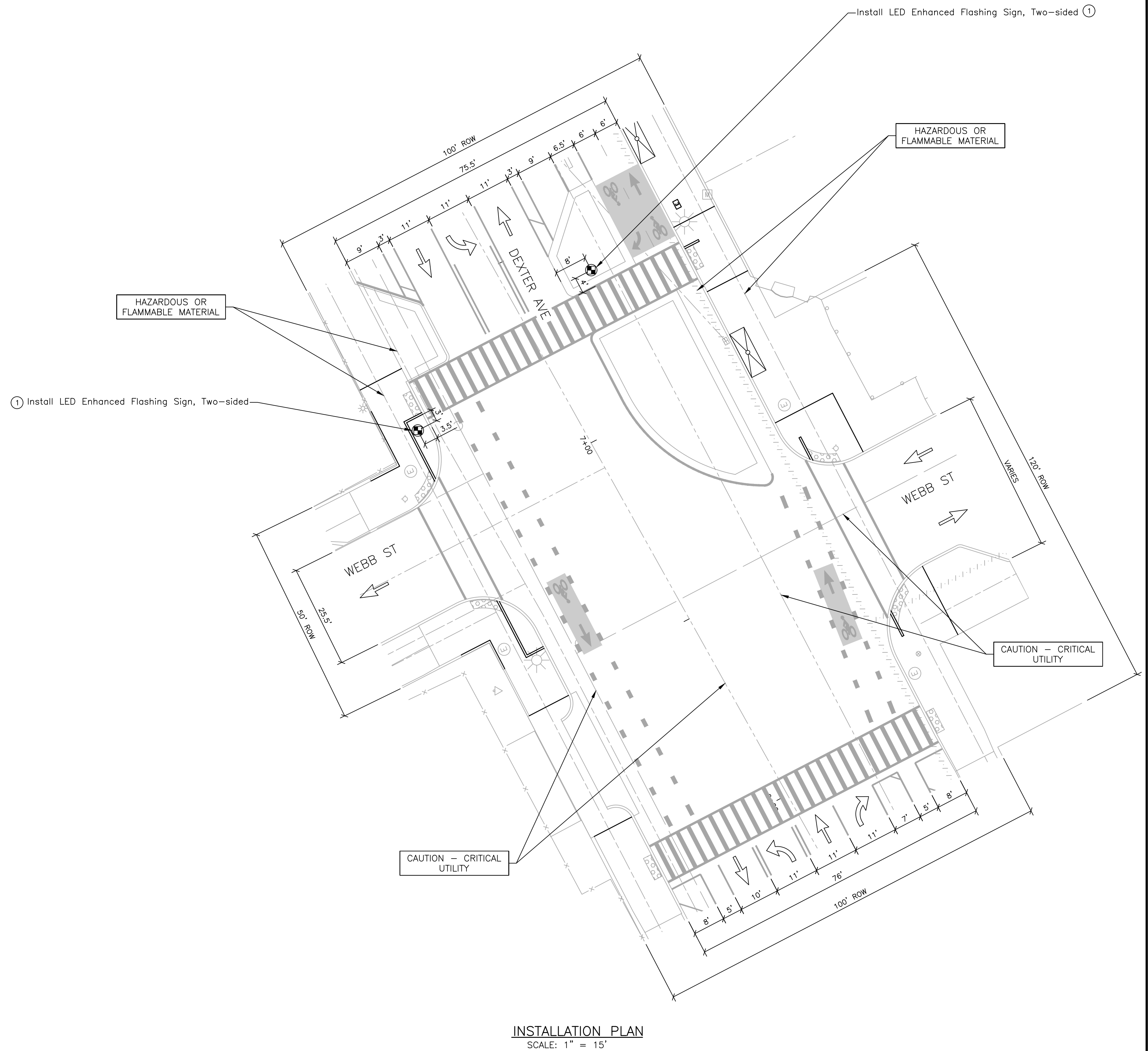
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

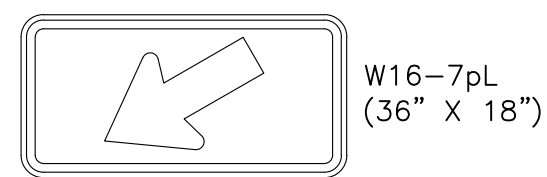
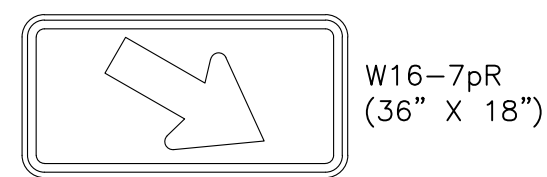
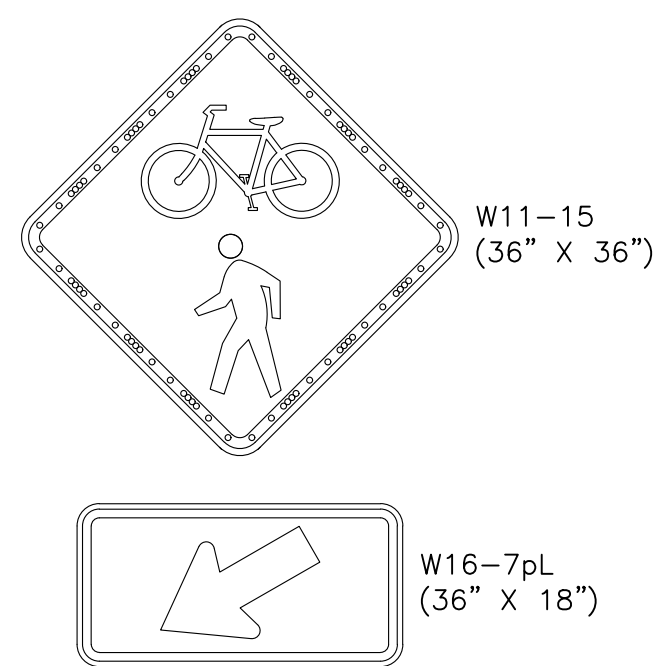
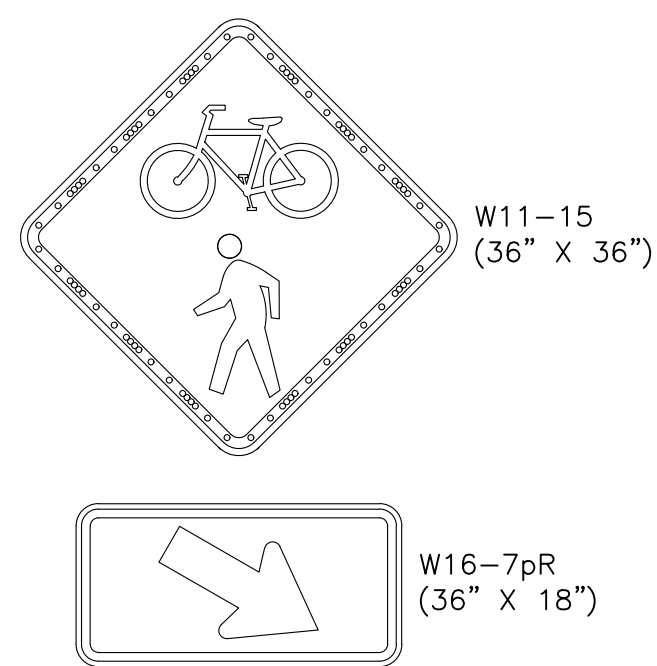
SHEET NO.  
90  
TSREM001

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	_LED Enhanced Flashing Sign, Two-sided	2 Ea	8207050

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO THE ACTIVATION OF NEW TRAFFIC SIGNALS.
  - EXACT LOCATIONS OF PEDESTAL SHALL BE DETERMINED BY THE ENGINEER.
  - REFER TO LED ENHANCED FLASHING SIGN DETAILS AND SPECIAL PROVISION FOR ADDITIONAL DETAILS.
  - LED LIGHTS SHALL OPERATE CONTINUOUSLY FOR THE ENTIRE DAY.



INSTALL LED ENHANCED FLASHING SIGNS



INSTALLATION PLAN  
SCALE: 1" = 15'



DEXTER AVE & WEBB ST  
TRAFFIC SIGNAL INSTALLATION SHEET

SCALE: 1" = 15'  
0 7.5 15 30

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_003.DWG LAYOUT: TSINST001 DATE: 7/19/2023 TIME: 12:13:25 PM USER: MPALOWSKI



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

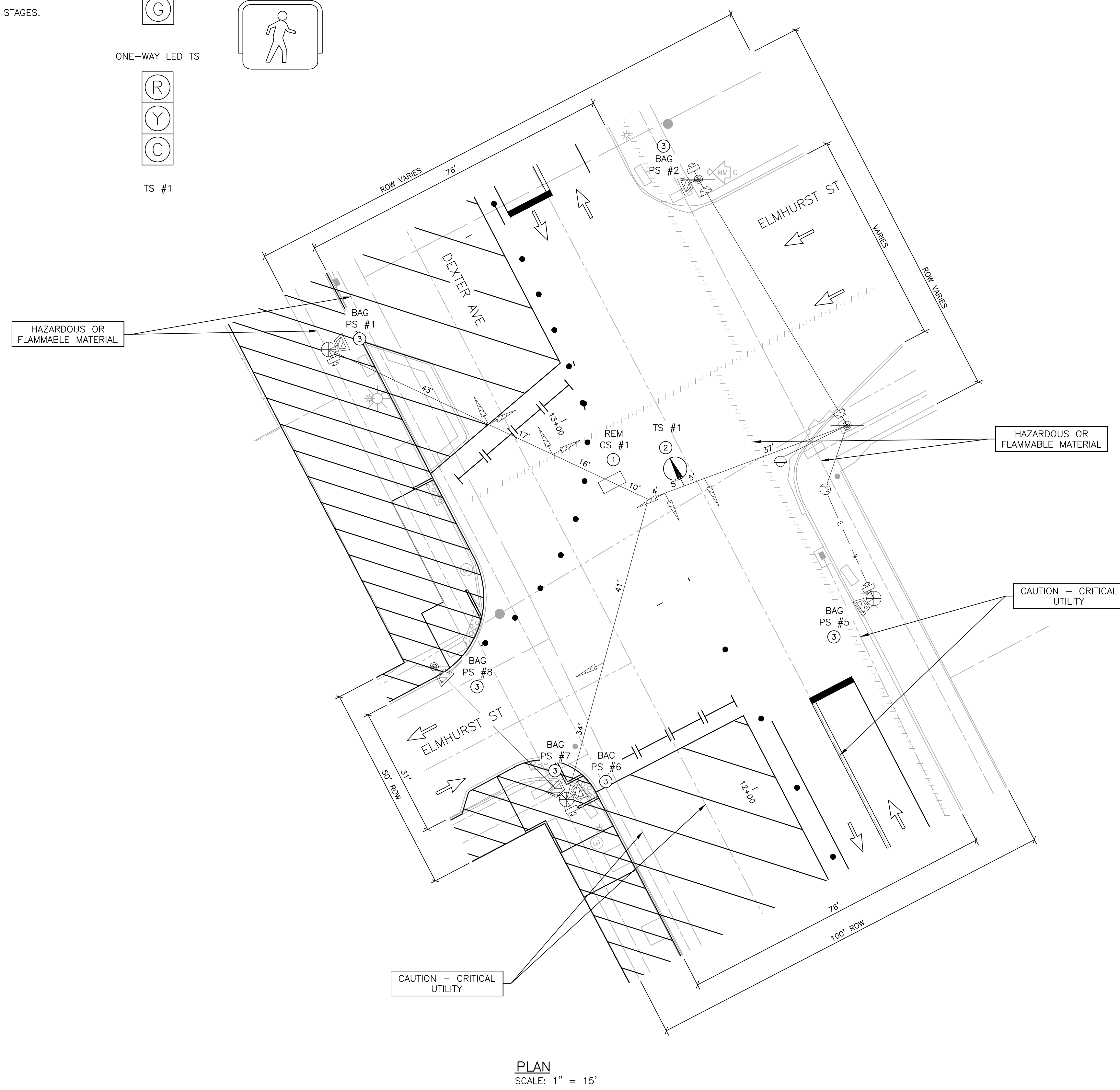
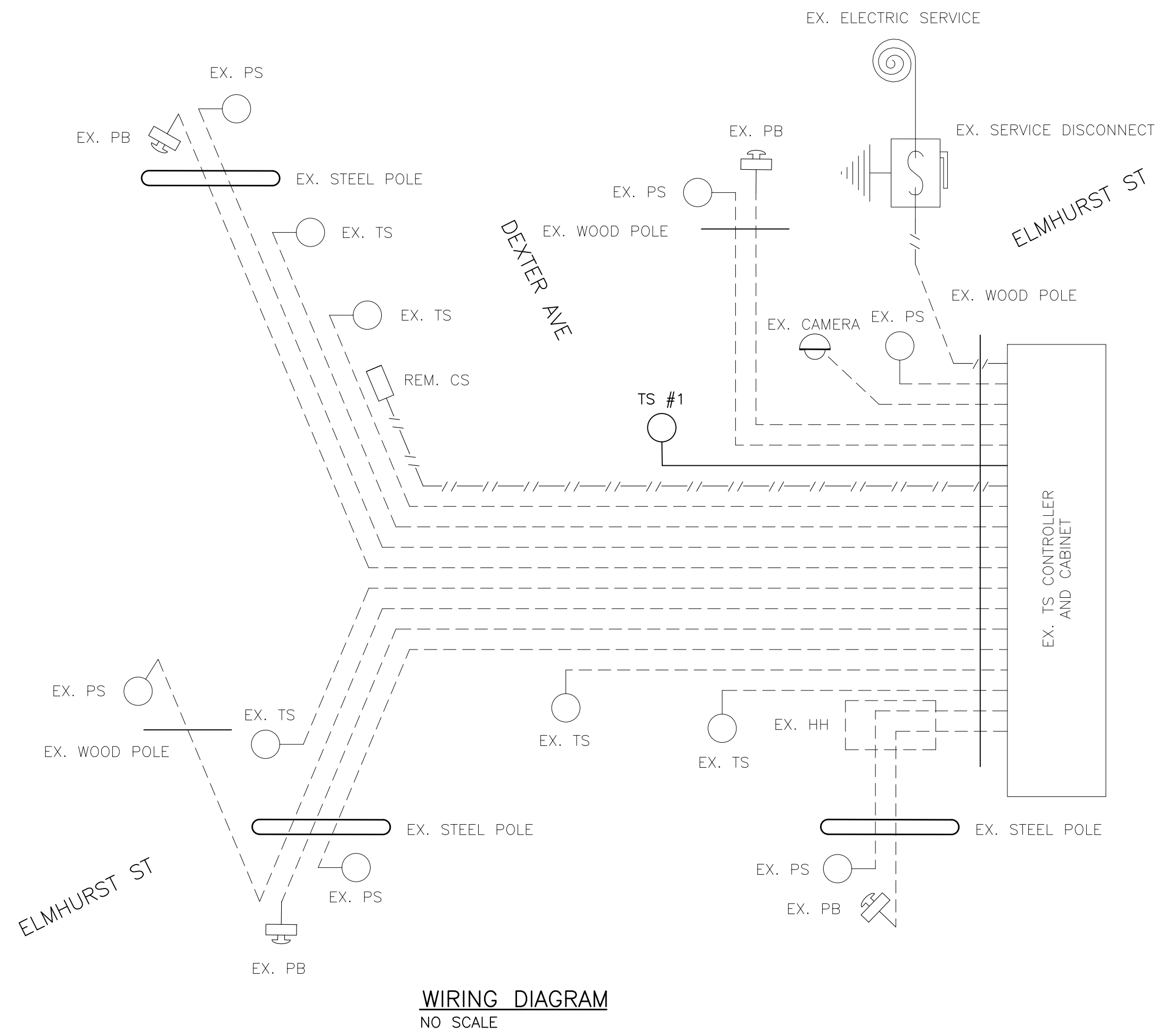
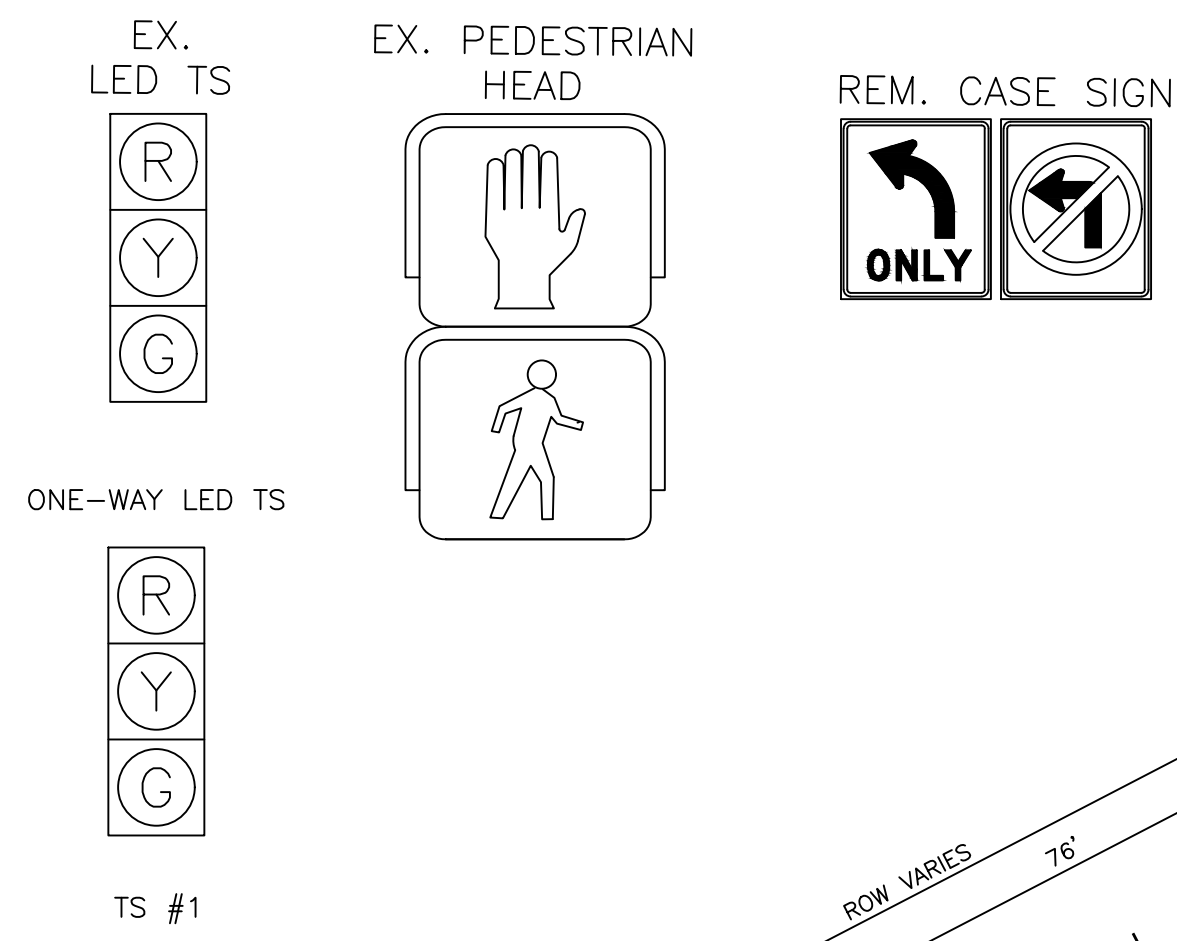
SHEET NO.

91

TSINST001

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	Case Sign, Rem	1 Ea	8200020
②	TS Head, Temp	1 Ea	8200453
③	TS Face, Bag	6 Ea	8200458

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
  - CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
  - ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.
  - PROVIDE ENOUGH CABLE FOR TS HEAD, TEMP TO ACCOUNT FOR FUTURE STAGES.



DEXTER AVE & ELMHURST ST  
TRAFFIC SIGNAL - STAGE 1

SCALE: 1" = 15'

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

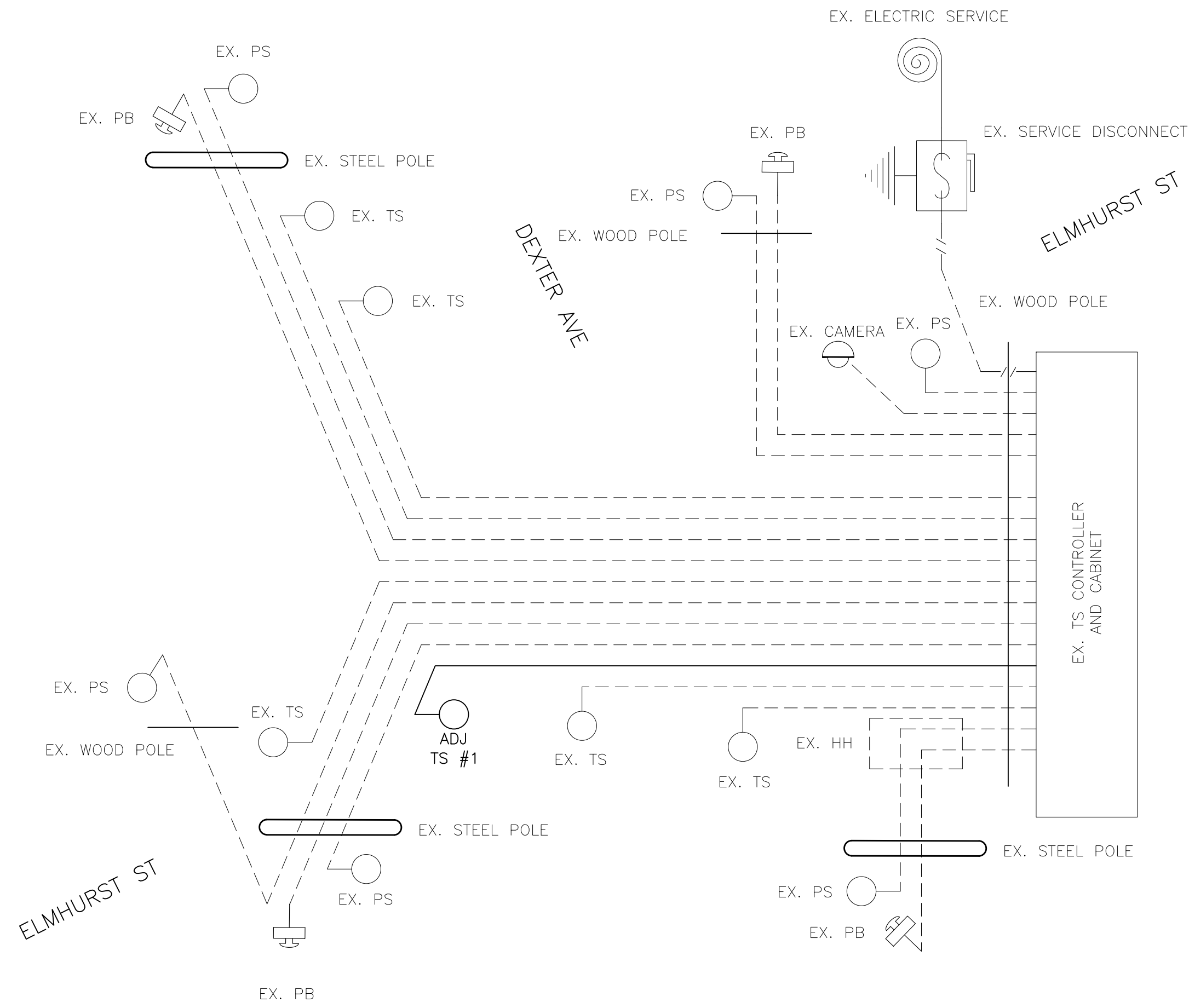
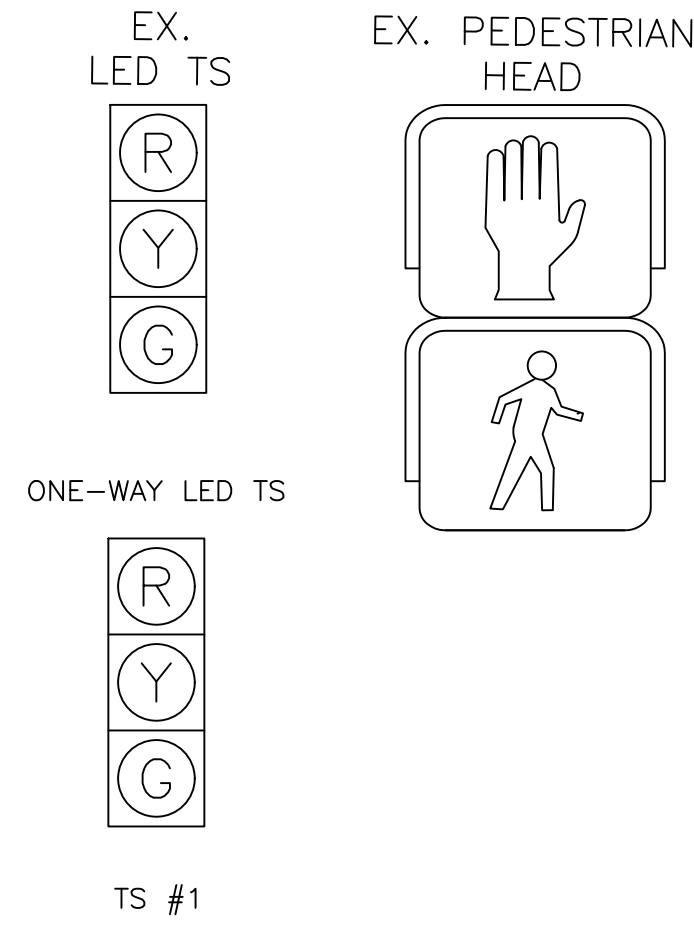
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

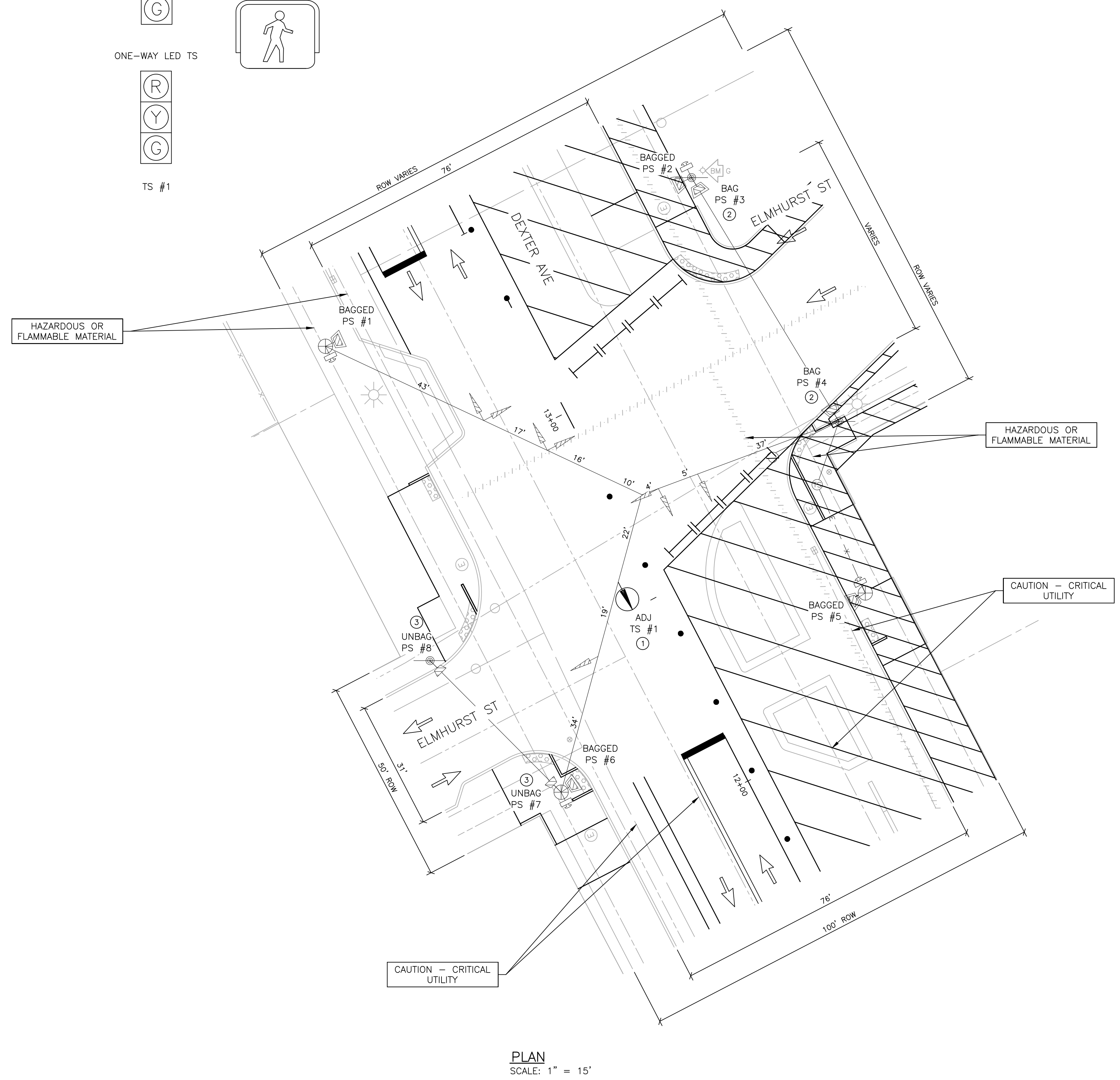
SHEET NO.  
92  
TSMT001

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	TS, Head, Adj	1 Ea	8200452
②	TS Face, Bag	2 Ea	8200458
③	TS Face, Bag, Rem	2 Ea	8200459

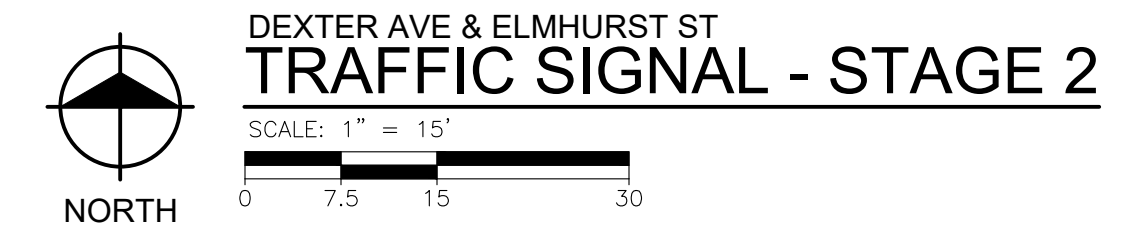
- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
  - CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
  - ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.



**WIRING DIAGRAM**  
NO SCALE



**PLAN**  
SCALE: 1" = 15'



DEXTER AVE & ELMHURST ST  
**TRAFFIC SIGNAL - STAGE 2**

SCALE: 1" = 15'

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_0048.DWG LAYOUT: TSMT002 DATE: 7/19/2023 TIME: 12:17:27 PM USER: MSW\ALSH



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

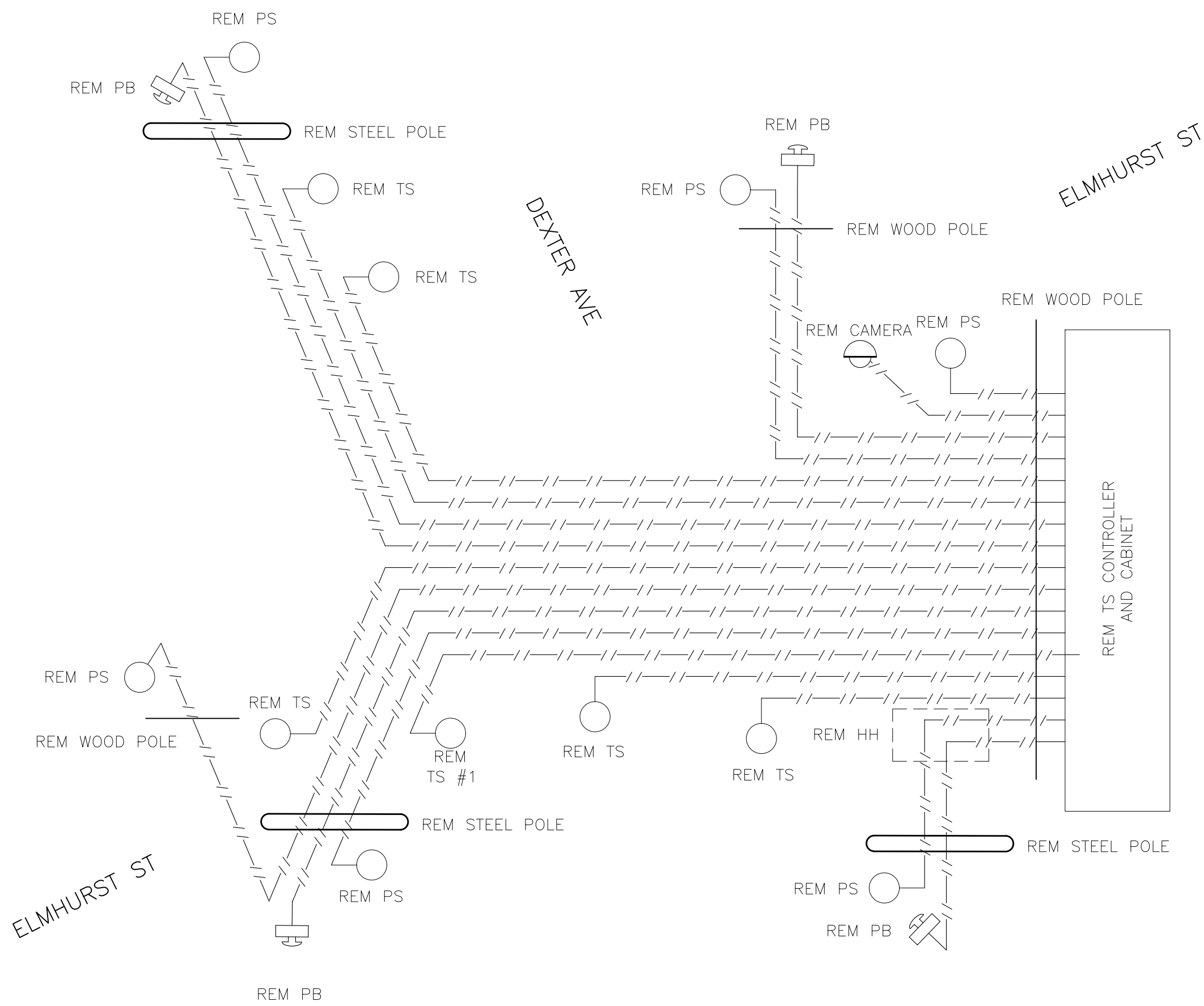
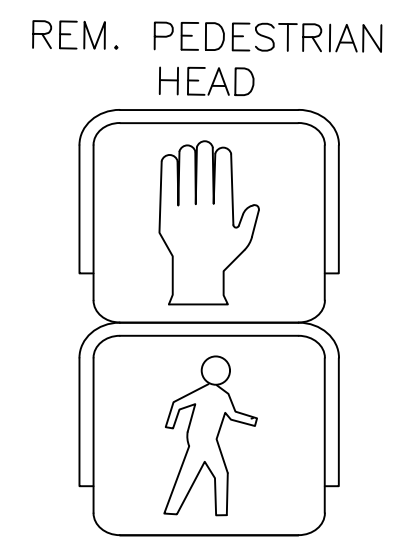
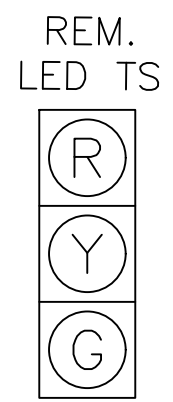
SHEET NO.

93

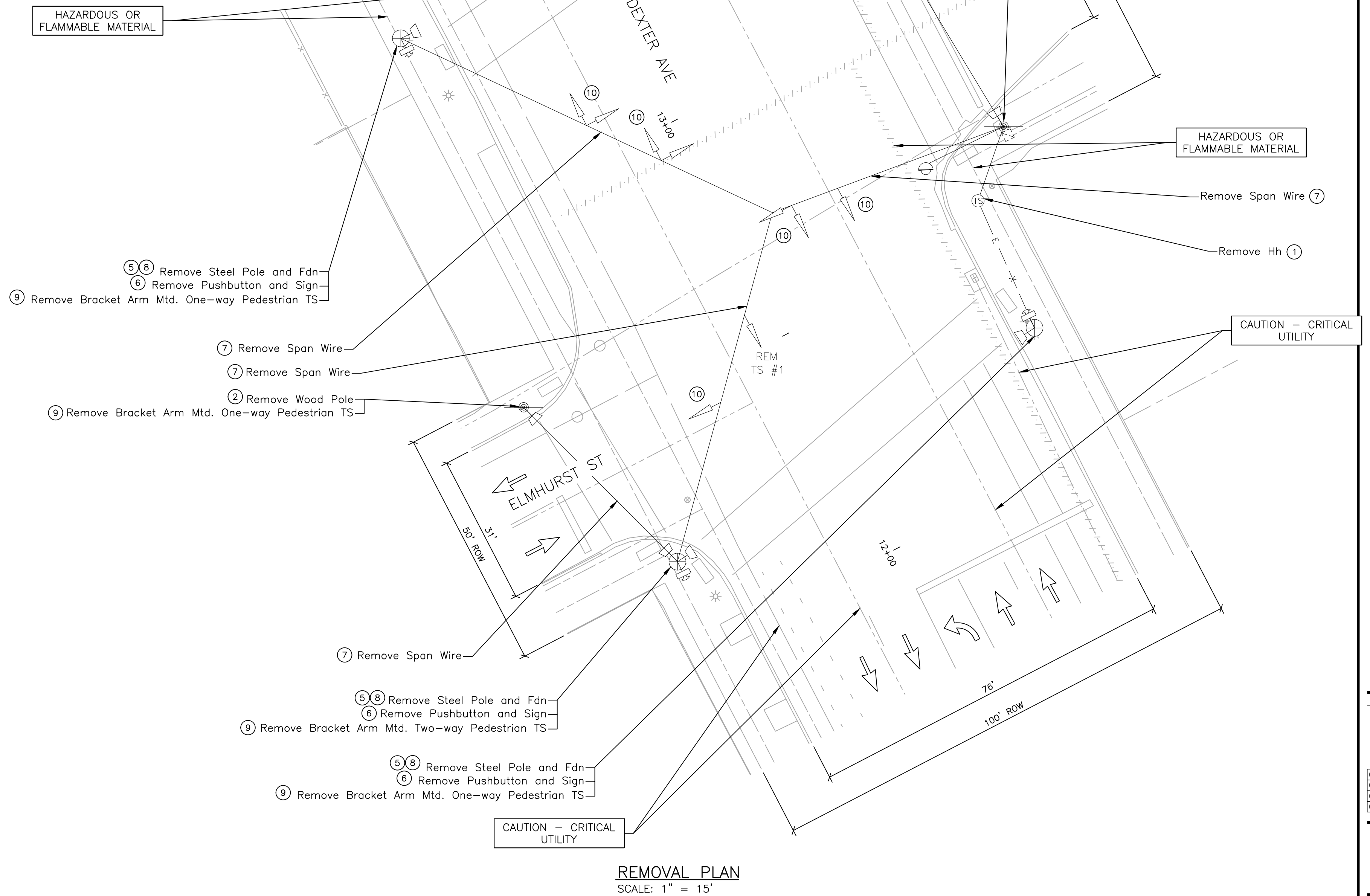
TSMT002

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
1	Hh, Rem	1 Ea	8182330
2	Wood Pole, Rem	3 Ea	8182363
3	Serv Disconnect, Rem	1 Ea	8182367
4	Controller and Cabinet, Rem	1 Ea	8200030
5	Fdn, Rem	3 Ea	8200065
6	Pushbutton, Rem	4 Ea	8200122
7	Span Wire, Rem	5 Ea	8200141
8	Steel Pole, Rem	3 Ea	8200145
9	TS, Pedestrian, Bracket Arm Mtd, Rem	6 Ea	8200180
10	TS, Span Wire Mtd, Rem	5 Ea	8200182
11	Video Traf Detection Camera, Rem	1 Ea	8200384
12	Bracket, Truss, Rem	1 Ea	8200388
13	Video Capture and Streaming System, Rem	1 Ea	8207050
14	Video Detection and Analytics System, Rem	1 Ea	8207050
	Cable, Sec, Rem	100 FT	8182199

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT. CONTACT MONIQUE WALTHALL OF THE CITY OF DETROIT DPW SIGN SHOP AT 313-628-4246 FOR TRANSFER OF CITY SIGNS, STREET NAME OR OTHERWISE. THIS MUST BE DONE AT LEAST 72 HOURS PRIOR TO REMOVAL OF ANY POLES OR OTHER EQUIPMENT TO WHICH THEY ARE ATTACHED.
  - CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
  - ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.
  - ALL FOUNDATIONS THAT ARE TO BE REMOVED, SHALL BE REMOVED FULL DEPTH. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVE THAT THE FOUNDATIONS HAVE BEEN COMPLETELY REMOVED.
  - REMOVAL OF TS #1 IS INCLUDED IN THE PAY ITEM "TS Head, Temp".



REMOVAL WIRING DIAGRAM  
NO SCALE



REMOVAL PLAN  
SCALE: 1" = 15'



DEXTER AVE & ELMHURST ST  
TRAFFIC SIGNAL REMOVAL SHEET

SCALE: 1" = 15'  
0 15 30 60

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_SIGNAL\_004.DWG LAYOUT: TSREM002 DATE: 7/26/2023 TIME: 10:51:56 AM USER: MSW\ALSH



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

94

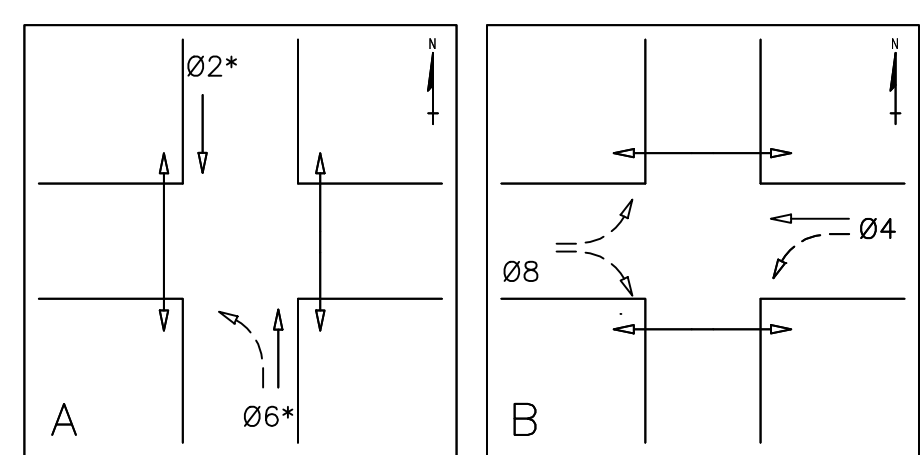
TSREM002

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
1	Cable, Sec. 600V, 1, 3/C#6	100 Ft	8182238
2	Serv Disconnect	1 Ea	8182366
3	Conduit, Encased, 1, 3 inch, Modified	90 Ft	8187001
4	Conduit, Encased, 2, 3 inch, Modified	10 Ft	8187001
5	Conduit, Encased, 3, 4 inch, Modified	15 Ft	8187001
6	Case Sign (LED), Two Way, 24 inch by 30 inch	2 Ea	8200022
7	Controller Fdn, Base Mtd	1 Ea	8200045
8	Span Wire	5 Ea	8200140
9	Strain Pole, Steel, Anchor Base, 30 foot	4 Ea	8200155
10	Strain Pole, Steel, Anchor Fdn	4 Ea	8200156
11	TS, One Way Span Wire Mtd (LED)	8 Ea	8200313
12	TS, One Way Bracket Arm Mtd (LED)	2 Ea	8200333
13	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1 Ea	8200336
14	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	3 Ea	8200339
15	TS, Two Way Pedestal Mtd (LED)	1 Ea	8200342
16	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	1 Ea	8200345
17	Bracket, Truss, With 18 Foot Arm	1 Ea	8200378
18	_Hh, Round, Detroit	2 Ea	8207050
19	_Backplate, TS, Detroit	8 Ea	8207050
20	_Controller and Cabinet, Digital Type, ITS	1 Ea	8207050
21	_Video Capture and Streaming System	1 Ea	8207050
22	_Pedestal Alum, Modified	1 Ea	8207050
23	_Pedestal Fdn, Modified	1 Ea	8207050
	_Cellular Data Streaming for 2 hours per month and for 3 Year	1 Ea	8207050
	_Video Detection and Analytics System	1 Ea	8207050
	_Wireless Data Acquisition, Alerts and Analytic System	1 Ea	8207050
	_Cellular Data Service for 3 Year	1 Ea	8207050

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO THE ACTIVATION OF NEW TRAFFIC SIGNALS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER AND WIRING THE CABINET. TIMING PERMITS CAN BE OBTAINED BY CONTACTING KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION.
  - ALL SPAN WIRE MOUNTED TRAFFIC SIGNALS WILL BE FITTED WITH BACKPLATES.
  - CONTRACTOR TO GET APPROVAL FROM CITY'S PROJECT ENGINEER PRIOR TO INSTALLING THE PAY ITEM "Casing" (8200480) AT ANY LOCATION.
  - ALL STEEL STRAIN POLE INSTALLATIONS WILL USE THE 4 BOLT PATTERN AS SHOWN ON SPECIAL DETAIL 1507.
  - THE HEIGHT OF THE VIDEO DETECTION CAMERA SHALL BE AT LEAST 30' FROM THE PAVEMENT SURFACE.

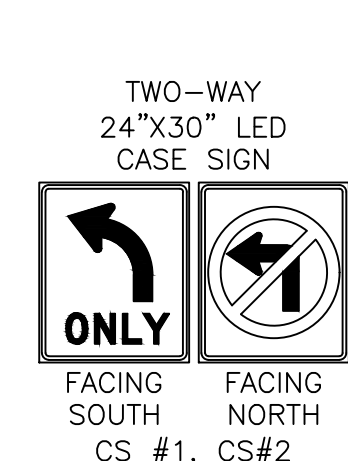
TS/PS HEAD TYPE	CABLE TYPE
1W3C BS	1-7/C#16 PJ
1W3C TS	1-7/C#16 PJ
2W3C TS	1-10/C#16 PJ
3W3C TS	1-12/C#16 PJ
4W3C TS	2-10/C#16 PJ
1W2S PS	1-5/C#16 PJ
2W2S PS	1-7/C#16 PJ
CASE SIGN	1-3/C#16 PJ
PUSHBUTTON CAMERA	1-2/C#12 SHIELDED (MSA 50-2) CAT 5e CABLE (OUTDOOR RATED)

BS = Bicycle Traffic Signal  
 TS = Vehicular Traffic Signal  
 PS = Pedestrian Traffic Signal

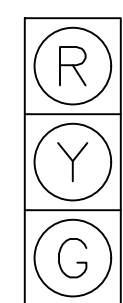


\*Includes Bicycle Traffic Signal Phasing

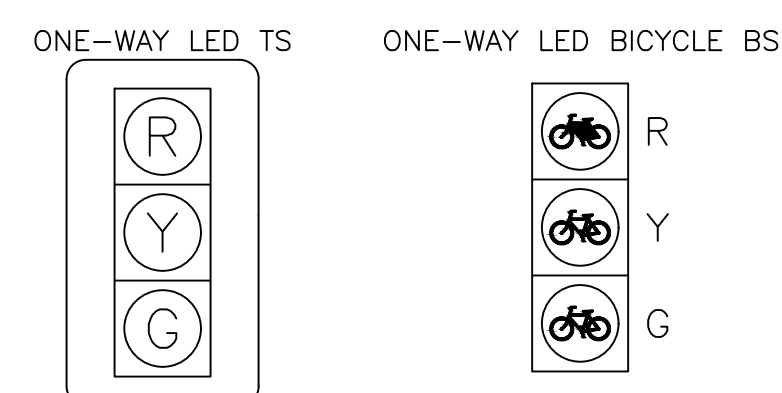
PHASING DIAGRAM



ONE-WAY LED TS



TS #7

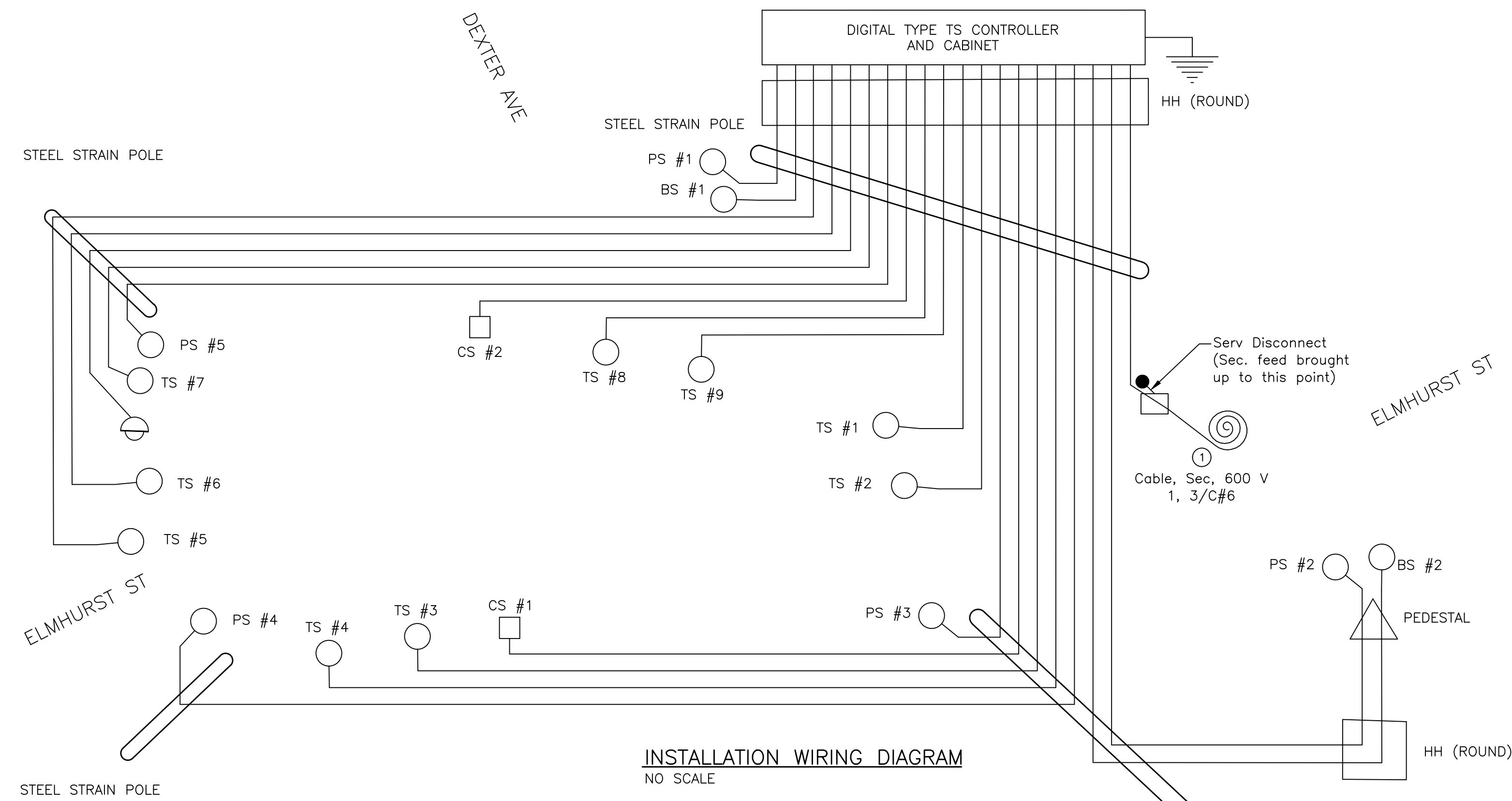


BS #1, BS #2.



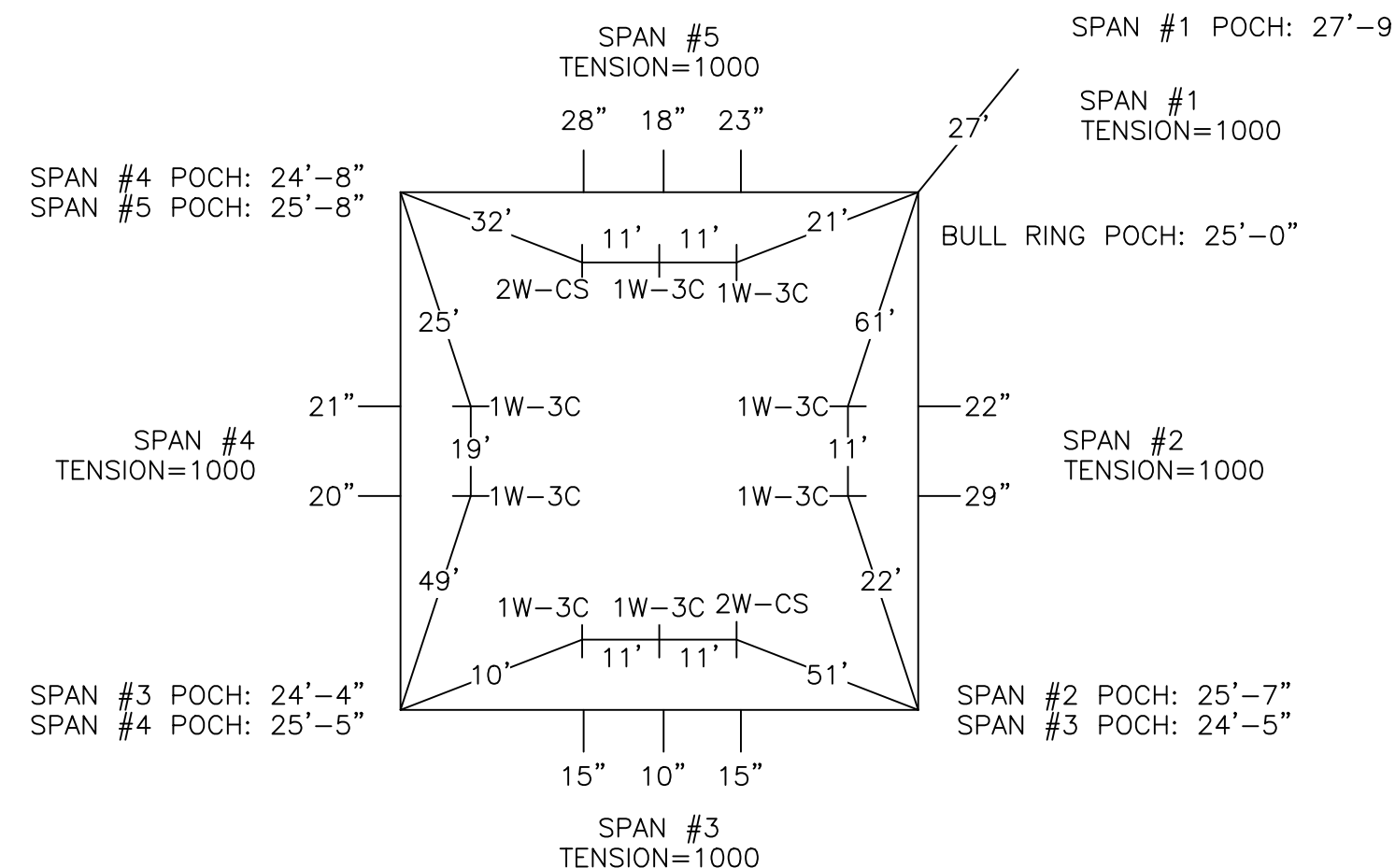
PS #1, PS #2, PS #3, PS #4 PS #5

HAZARDOUS OR FLAMMABLE MATERIAL



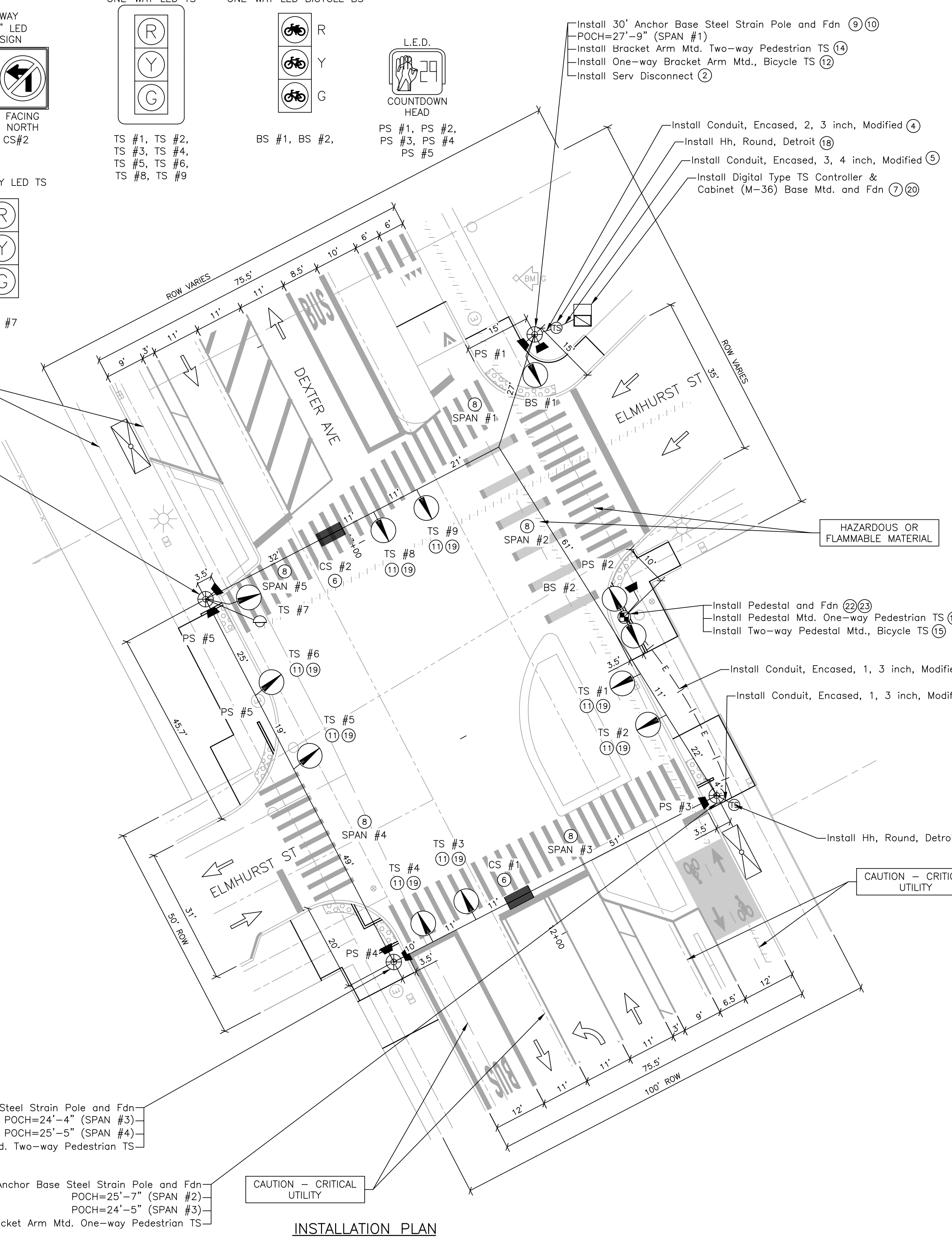
INSTALLATION WIRING DIAGRAM  
NO SCALE

BOX SPAN CALCULATIONS  
NOT TO SCALE



MOUNTING DETAILS FOR POLE AND PEDESTAL MOUNTED PEDESTRIAN AND TRAFFIC SIGNALS

ITEM	MOUNTED ON	REFER TO DETAIL SHEET	REFER TO DETAIL
2-WAY PS	PEDESTAL	1509	D2
2-WAY PS	POLE	1510	D3
1-WAY PS	PEDESTAL	1509	B2
1-WAY PS	POLE	1508	B1
2-WAY TS	PEDESTAL	1509	C2
2-WAY TS	POLE	1510	A3
1-WAY TS	PEDESTAL	1509	A2
1-WAY TS	POLE	1508	A1
TS & PS	PEDESTAL	1509	MOUNT PED SIGNALS ON BACK OF PEDESTAL
TS & PS	POLE	1510	MOUNT PED SIGNALS ON BACK OF POLE



INSTALLATION PLAN  
SCALE: 1" = 15'



DEXTER AVE & ELMHURST ST  
TRAFFIC SIGNAL INSTALLATION SHEET  
SCALE: 1" = 15'

**fishbeck**  
 Engineers | Architects | Scientists | Constructors

**SMITHGROUP**  
 500 GRISWOLD  
 SUITE 1700  
 DETROIT, MI 48226  
 313.993.3600  
 www.smithgroup.com

City of Detroit  
 Dexter Avenue Streetscape

REVISIONS

DATE	BY	DESCRIPTION
07/21/2023		100% CD
06/09/2023		90% CD
04/28/2023		60% CD
03/10/2023		30% CD

Drawn By: AD  
 Designer: KMP  
 Reviewer: KMR  
 Manager: KKS

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

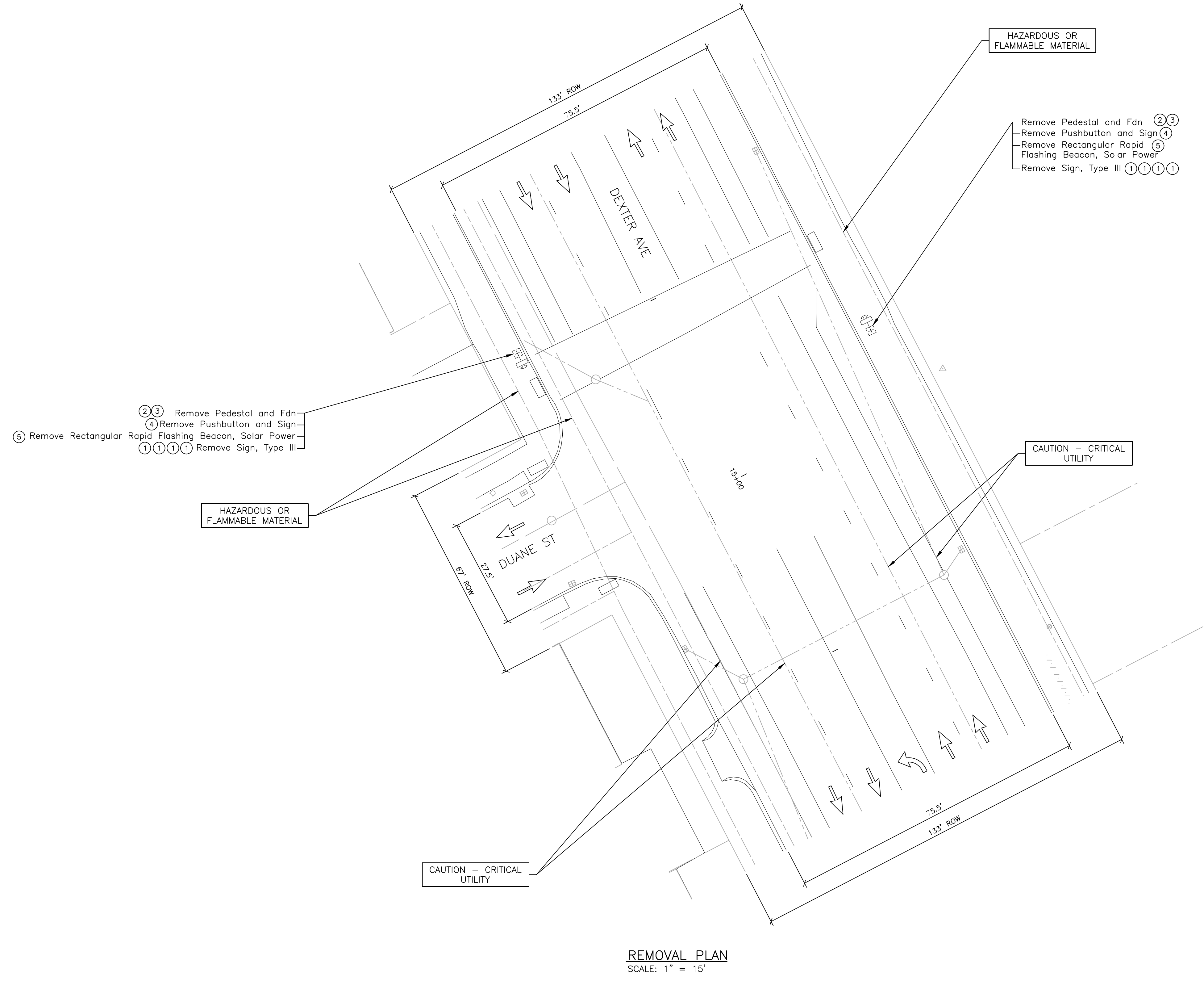
SHEET NO.  
95

TSINST002

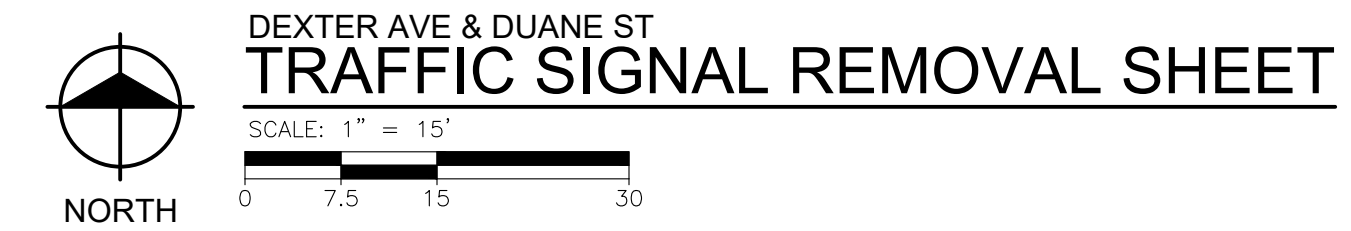
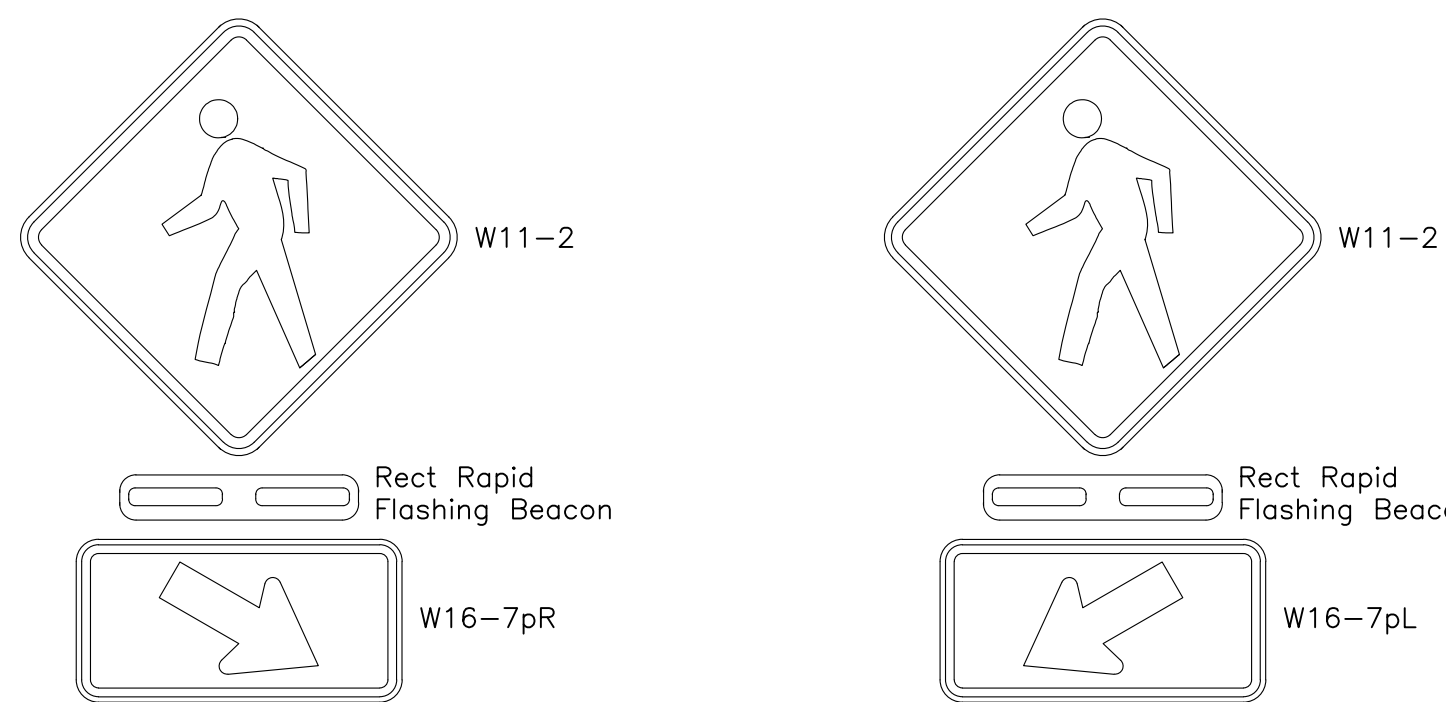
LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	Sign, Type III, Rem	8 Ea	8100403
②	Pedestal Fdn, Rem	2 Ea	8200106
③	Pedestal, Rem	2 Ea	8200110
④	Pushbutton, Rem	2 Ea	8200122
⑤	_Flash Beacon, Rectangular Rapid, Solar Power, Rem	2 Ea	8207050

NOTES:

- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT. CONTACT MONIQUE WALTHALL OF THE CITY OF DETROIT DPW SIGN SHOP AT 313-628-4246 FOR TRANSFER OF CITY SIGNS, STREET NAME OR OTHERWISE. THIS MUST BE DONE AT LEAST 72 HOURS PRIOR TO REMOVAL OF ANY POLES OR OTHER EQUIPMENT TO WHICH THEY ARE ATTACHED.
- ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.
- ALL FOUNDATIONS THAT ARE TO BE REMOVED, SHALL BE REMOVED FULL DEPTH. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVE THAT THE FOUNDATIONS HAVE BEEN COMPLETELY REMOVED.



REMOVE RECTANGULAR RAPID FLASHING BEACON



PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_006.DWG LAYOUT: TSREM003 DATE: 7/19/2023 TIME: 12:25:03 PM USER: MSW\ALSH



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

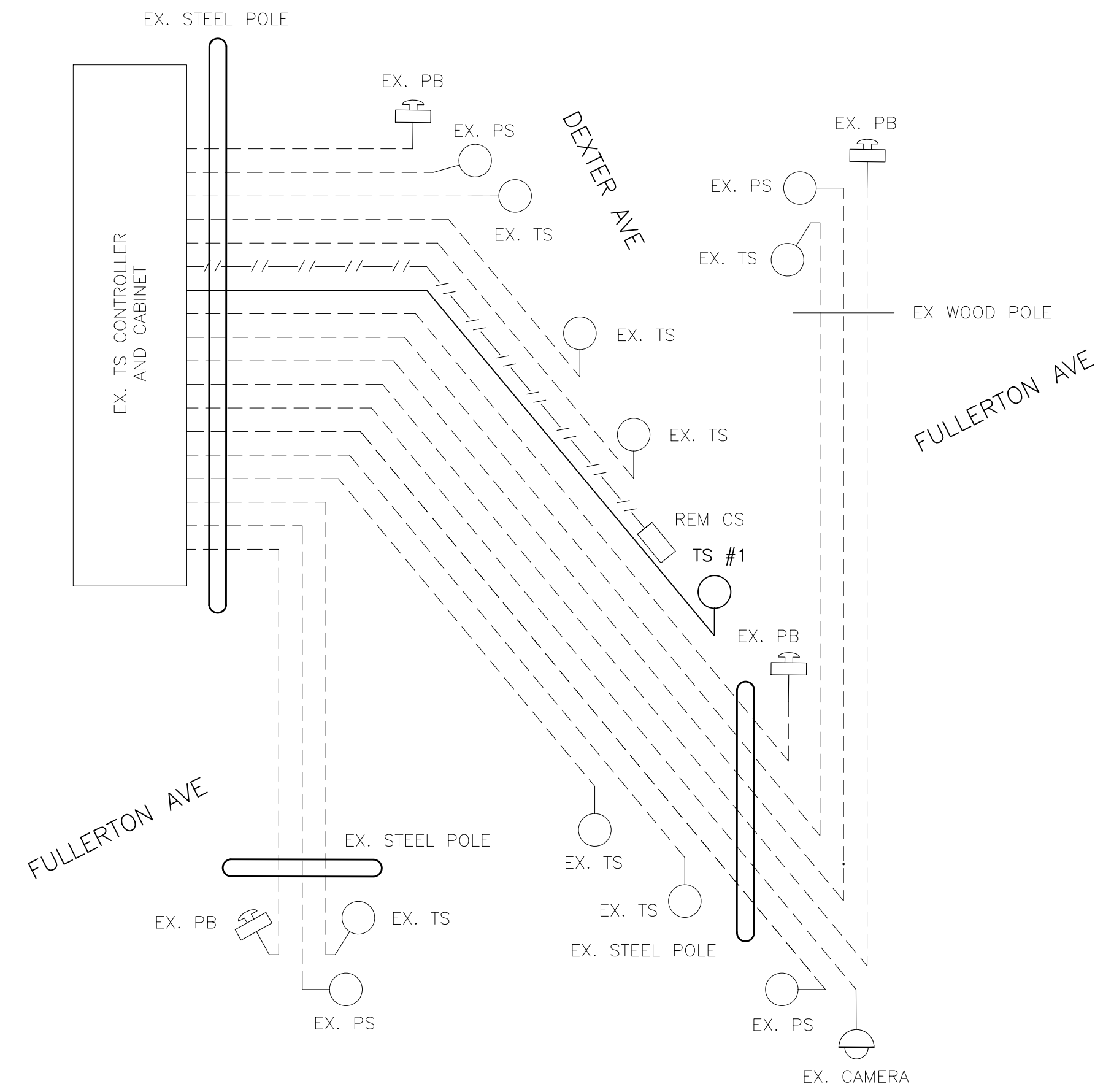
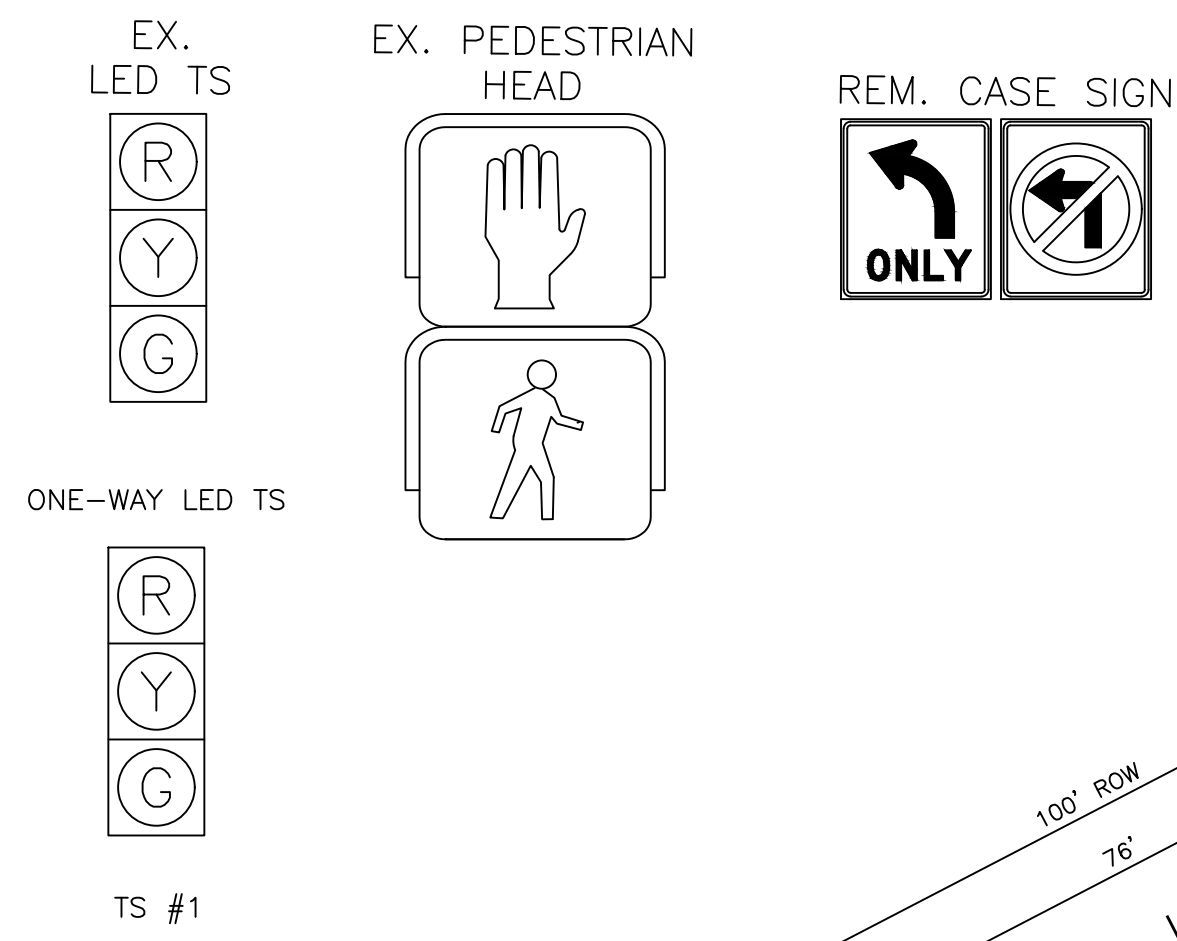
96

TSREM003

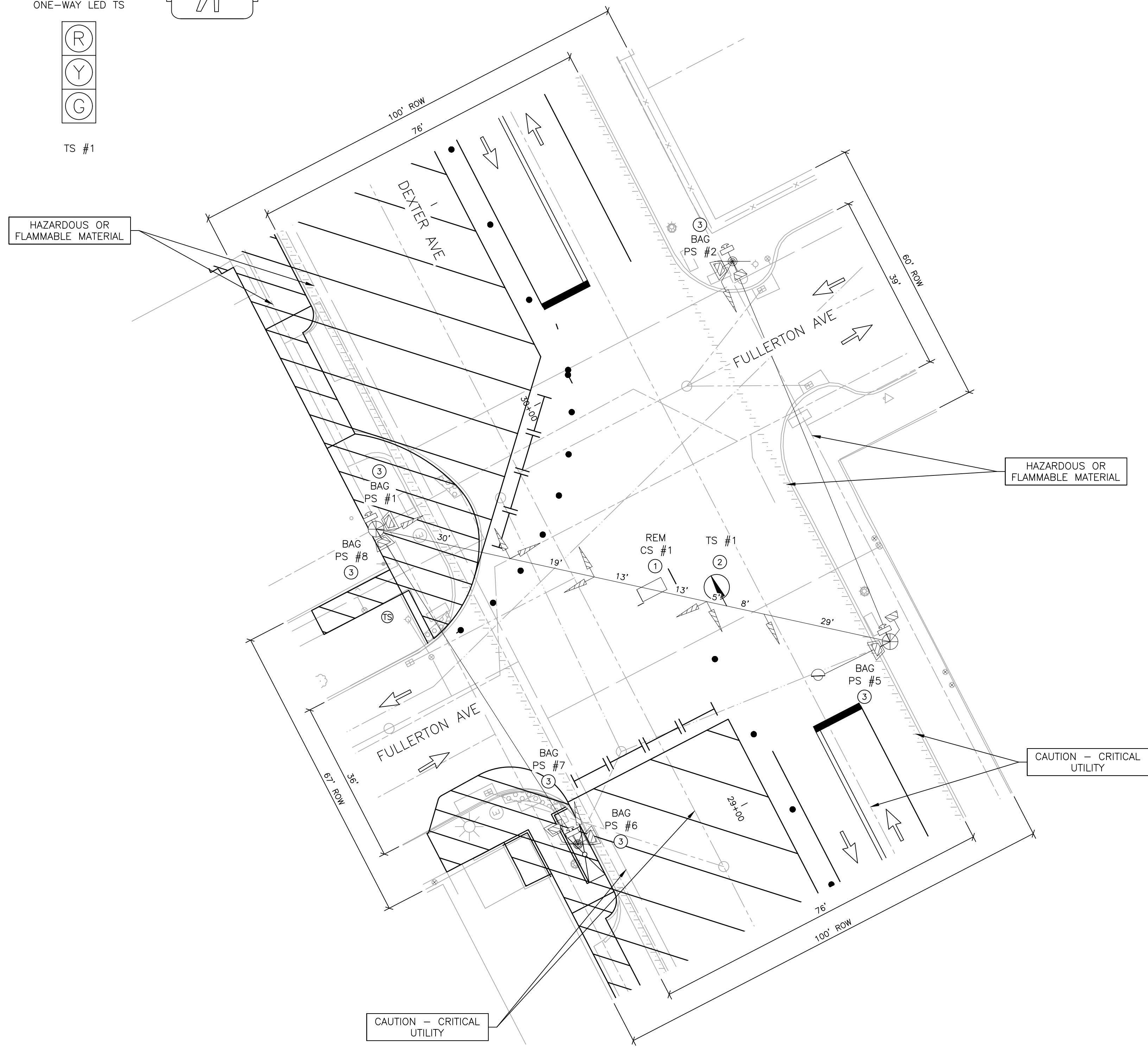


LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	Case Sign, Rem	1 Ea	8200020
②	TS Head, Temp	1 Ea	8200453
③	TS Face, Bag	6 Ea	8200458

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
  - CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
  - ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.



WIRING DIAGRAM  
NO SCALE



PLAN  
SCALE: 1" = 15'



DEXTER AVE & FULLERTON AVE  
TRAFFIC SIGNAL - STAGE 1

SCALE: 1" = 15'  
0 7.5 15 30

PLOT INFO: Z:\2018\191190\CADD\CD\191190\_SIGNAL\_008A.DWG LAYOUT: TSMT003 DATE: 7/19/2023 TIME: 12:25:04 PM USER: MSW\LSH



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

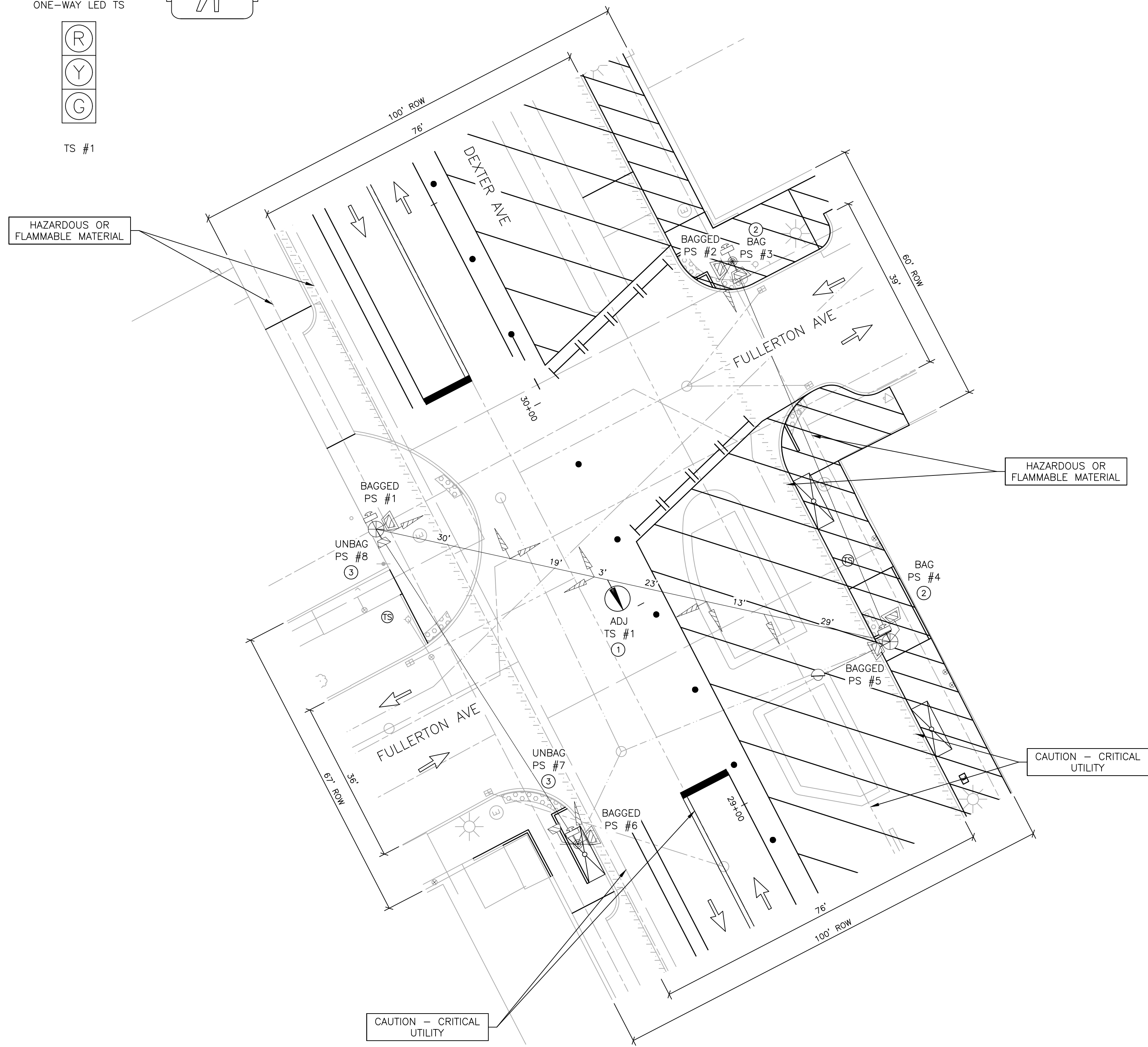
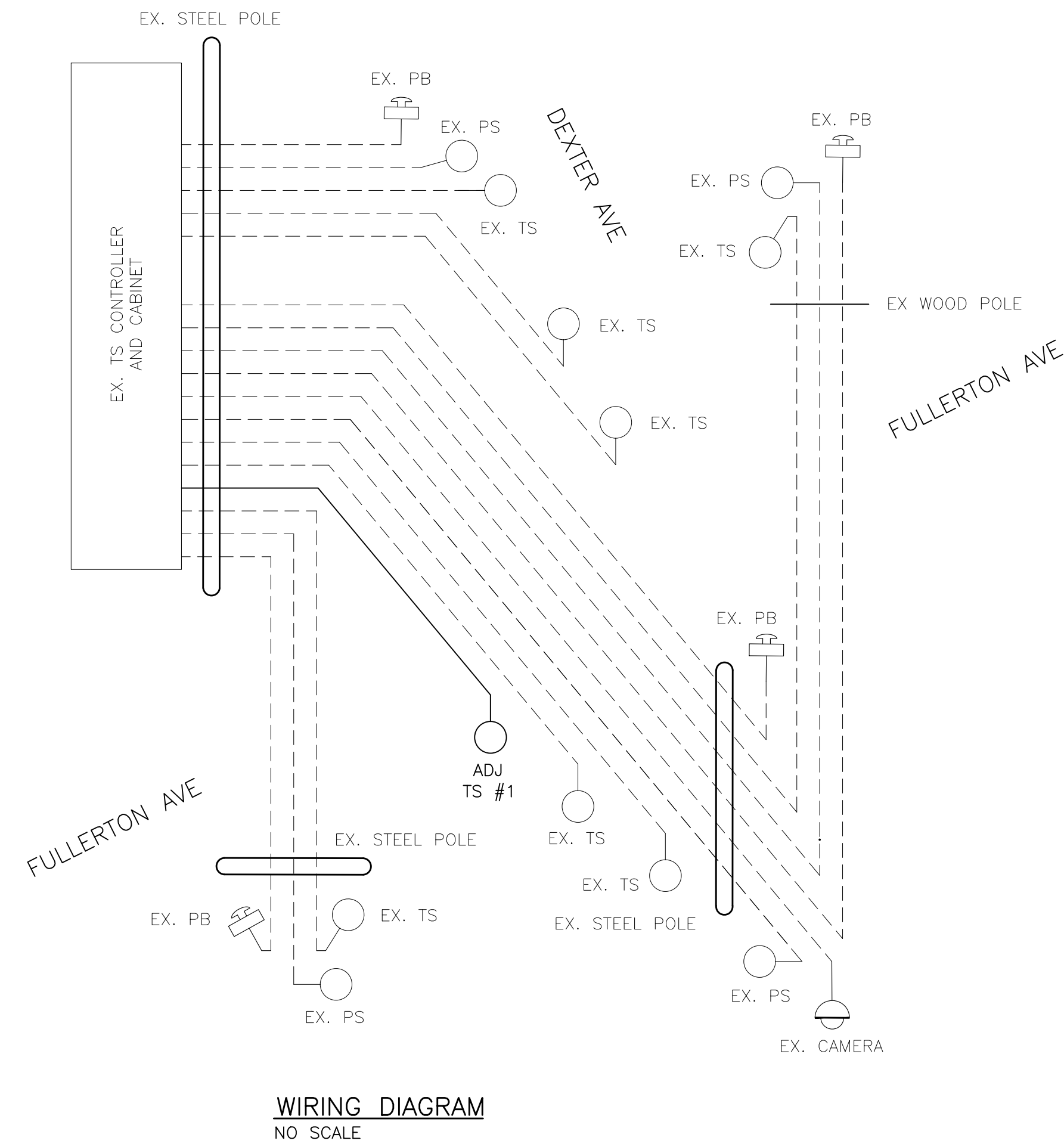
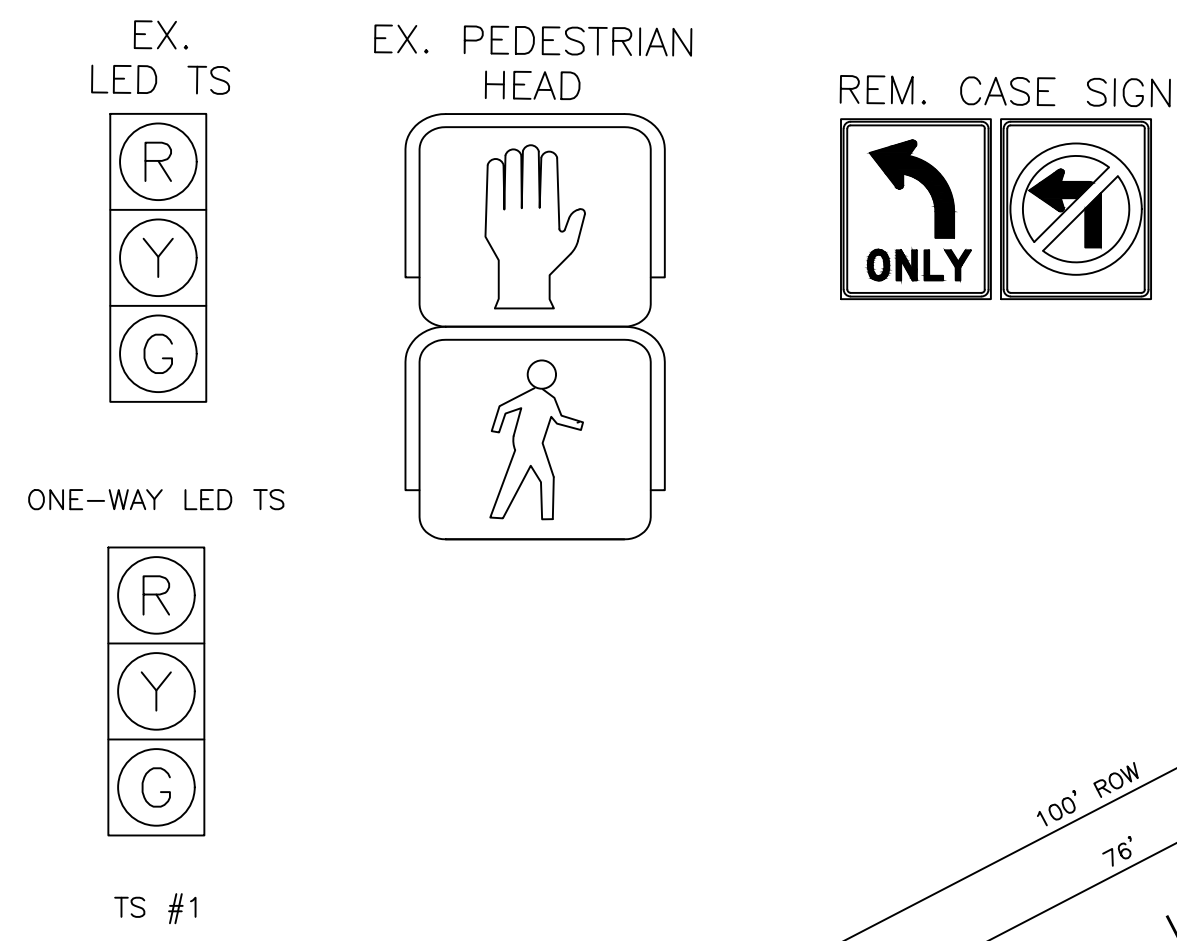
SHEET NO.

97

TSMT003

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	TS, Head, Adj	1 Ea	8200452
②	TS Face, Bag	6 Ea	8200458
③	TS Face, Bag, Rem	2 Ea	8200459

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
  - CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
  - ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.



PLAN  
SCALE: 1" = 15'



DEXTER AVE & FULLERTON AVE  
TRAFFIC SIGNAL - STAGE 2

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

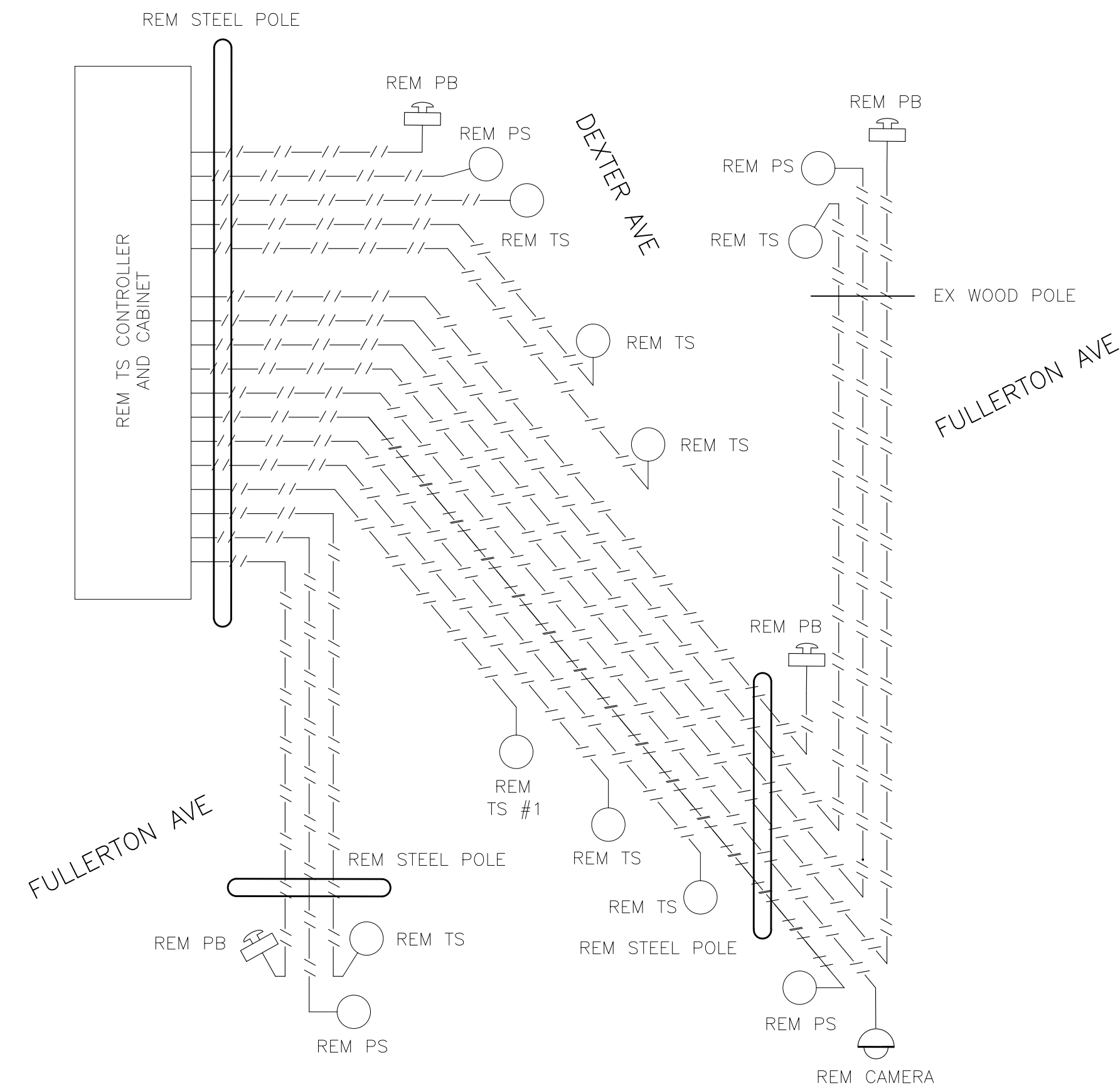
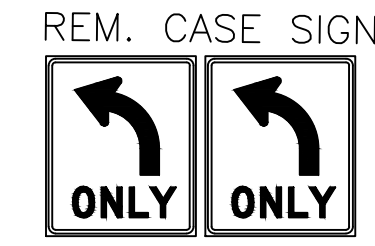
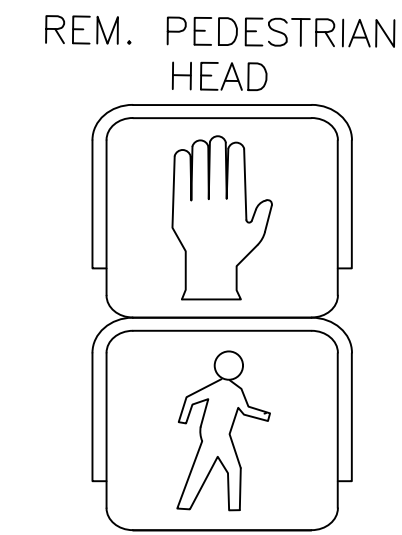
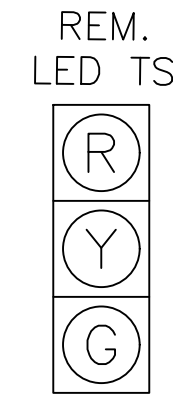
PROJECT NO.  
191190

SHEET NO.  
98  
TSMT004

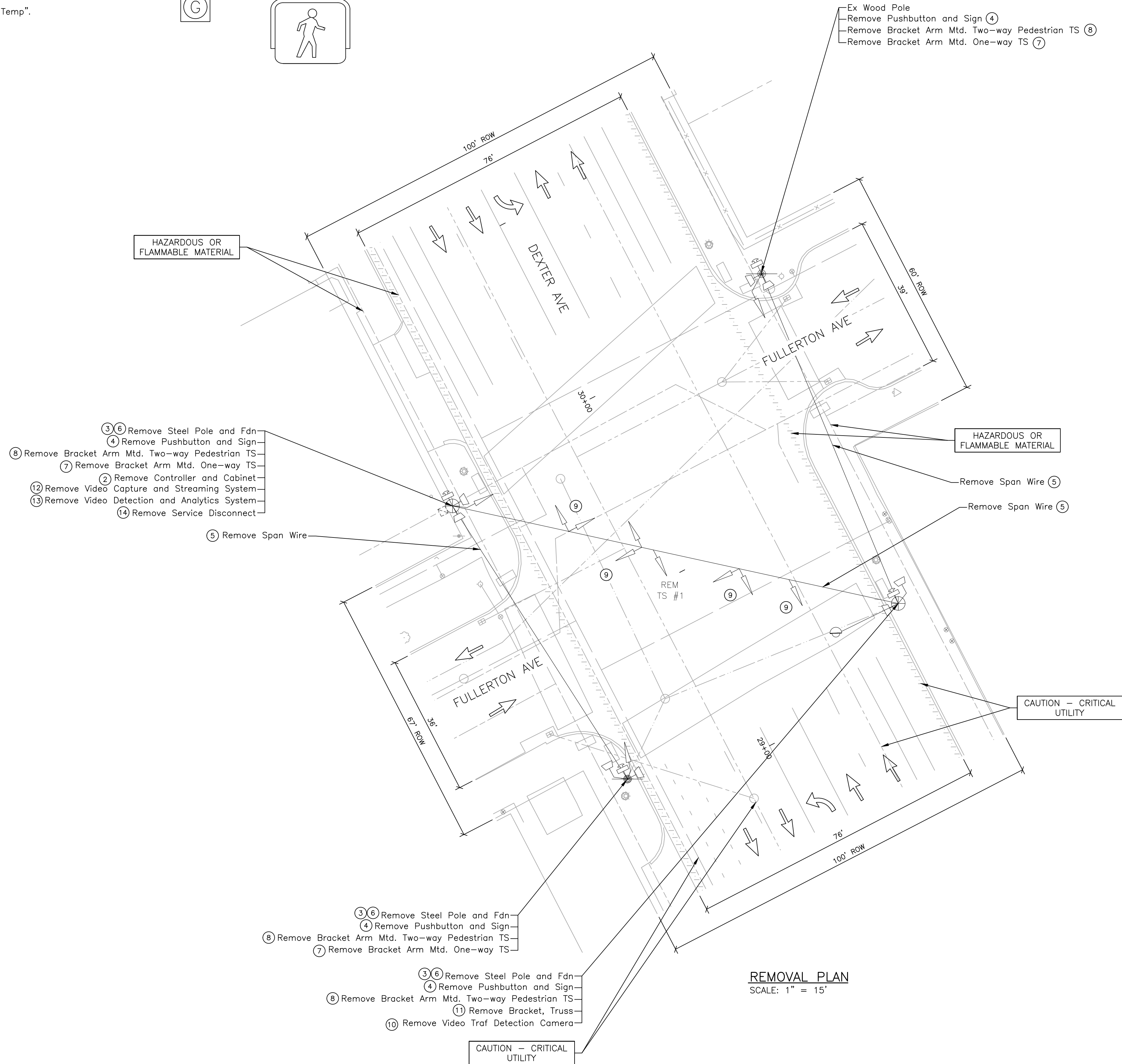
LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
1			
2	Controller and Cabinet, Rem	1 Ea	8200030
3	Fdn, Rem	3 Ea	8200065
4	Pushbutton, Rem	4 Ea	8200122
5	Span Wire, Rem	3 Ea	8200141
6	Steel Pole, Rem	3 Ea	8200145
7	TS, Bracket Arm Mtd, Rem	3 Ea	8200175
8	TS, Pedestrian, Bracket Arm Mtd, Rem	4 Ea	8200180
9	TS, Span Wire Mtd, Rem	4 Ea	8200182
10	Video Traf Detection Camera, Rem	1 Ea	8200384
11	Bracket, Truss, Rem	1 Ea	8200388
12	Video Capture and Streaming System, Rem	1 Ea	8207050
13	Video Detection and Analytics System, Rem	1 Ea	8207050
13	Serv Disconnect, Rem	1 Ea	8182367
	Cable, Sec, Rem	100 FT	8182199

NOTES:

- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO REMOVAL OF TRAFFIC SIGNAL EQUIPMENT.
- CONTACT THE SYSTEM OPERATOR OF DTE AT (800) 477-4747 FOR ELECTRICAL SERVICE CONNECTION.
- ALL REMOVED TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED IN REUSABLE CONDITION AND SHALL BECOME PROPERTY OF DPW (DEPARTMENT OF PUBLIC WORKS). ALL REMOVED MATERIAL WILL BE STORED ON SITE FOR PICK-UP BY DPW. ALL MATERIAL LEFT FOR THE CONTRACTOR WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL AWAY FROM THE SITE.
- REMOVAL OF TS #1 IS INCLUDED IN THE PAY ITEM "TS Head, Temp".



REMOVAL WIRING DIAGRAM  
NO SCALE



REMOVAL PLAN  
SCALE: 1" = 15'



DEXTER AVE & FULLERTON AVE  
TRAFFIC SIGNAL REMOVAL SHEET

SCALE: 1" = 15'  
0 7.5 15 30

PLOT INFO: Z:\2019\191190\CADD\CD\191190\_SIGNAL\_SIGNAL\_008.DWG LAYOUT: TSREM004 DATE: 7/26/2023 TIME: 10:54:35 AM USER: MSW\ALSH

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.983.3600  
www.smithgroup.com



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
Designer KMP  
Reviewer KMR  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

SHEET NO.

99

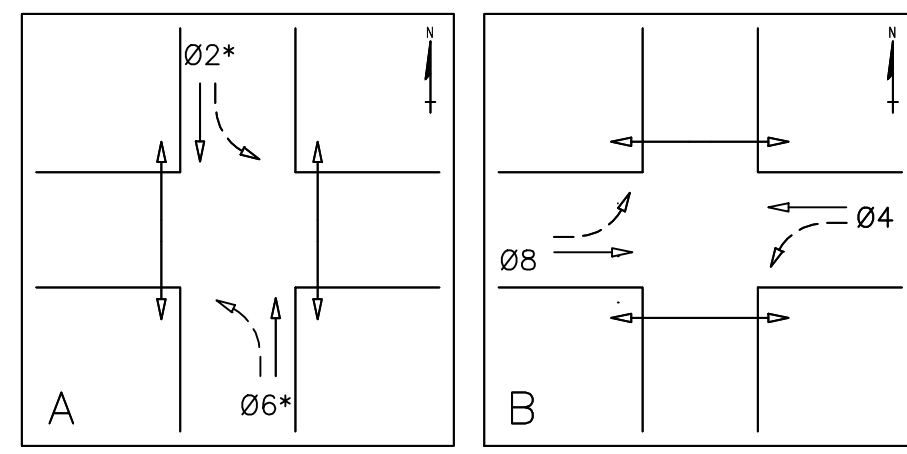
TSREM004

LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
1	Cable, Sec. 600V, 1, 3/C#6	100 Ft	8182238
2	Serv Disconnect	1 Ea	8182366
3	Conduit, Encased, 1, 3 inch, Modified	60 Ft	8187001
4	Conduit, Encased, 2, 3 inch, Modified	80 Ft	8187001
5	Conduit, Encased, 3, 4 inch, Modified	15 Ft	8187001
6	Case Sign (LED), Two Way, 24 inch by 30 inch	2 Ea	8200022
7	Controller Fdn, Base Mtd	1 Ea	8200045
8	Span Wire	5 Ea	8200140
9	Strain Pole, Steel, Anchor Base, 30 foot	4 Ea	8200155
10	Strain Pole, Steel, Anchor Fdn	4 Ea	8200156
11	TS, One Way Span Wire Mtd (LED)	9 Ea	8200313
12	TS, One Way Bracket Arm Mtd (LED)	3 Ea	8200333
13	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1 Ea	8200336
14	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	3 Ea	8200339
15	TS, One Way Pedestal Mtd (LED)	1 Ea	8200340
16	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	1 Ea	8200345
17	Bracket, Truss, With 18 Foot Arm	1 Ea	8200378
18	_Hh, Round, Detroit	2 Ea	8207050
19	_Backplate, TS, Detroit	8 Ea	8207050
20	_Controller and Cabinet, Digital Type, ITS	1 Ea	8207050
21	_Video Capture and Streaming System	1 Ea	8207050
22	_Pedestal Alum, Modified	1 Ea	8207050
23	_Pedestal Fdn, Modified	1 Ea	8207050
	_Cellular Data Streaming for 2 hours per month and for 3 Year	1 Ea	8207050
	_Video Detection and Analytics System	1 Ea	8207050
	_Wireless Data Acquisition, Alerts and Analytic System	1 Ea	8207050
	_Cellular Data Service for 3 Year	1 Ea	8207050

- NOTES:
- CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO THE ACTIVATION OF NEW TRAFFIC SIGNALS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER AND WIRING THE CABINET. TIMING PERMITS CAN BE OBTAINED BY CONTACTING KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION.
  - ALL SPAN WIRE MOUNTED TRAFFIC SIGNALS WILL BE FITTED WITH BACKPLATES.
  - CONTRACTOR TO GET APPROVAL FROM CITY'S PROJECT ENGINEER PRIOR TO INSTALLING THE PAY ITEM "Casing" (8200480) AT ANY LOCATION.
  - ALL STEEL STRAIN POLE INSTALLATIONS WILL USE THE 4 BOLT PATTERN AS SHOWN ON SPECIAL DETAIL 1507.
  - THE HEIGHT OF THE VIDEO DETECTION CAMERA SHALL BE AT LEAST 30' FROM THE PAVEMENT SURFACE.

TS/PS HEAD TYPE	CABLE TYPE
1W3C BS	1-7/C#16 PJ
1W3C TS	1-7/C#16 PJ
2W3C TS	1-10/C#16 PJ
3W3C TS	1-12/C#16 PJ
4W3C TS	2-10/C#16 PJ
1W2S PS	1-5/C#16 PJ
2W2S PS	1-7/C#16 PJ
CASE SIGN	1-3/C#16 PJ
PUSHBUTTON	1-2/C#12 SHIELDED (MSA 50-2)
CAMERA	CAT 5e CABLE (OUTDOOR RATED)

BS = Bicycle Traffic Signal  
 TS = Vehicular Traffic Signal  
 PS = Pedestrian Traffic Signal

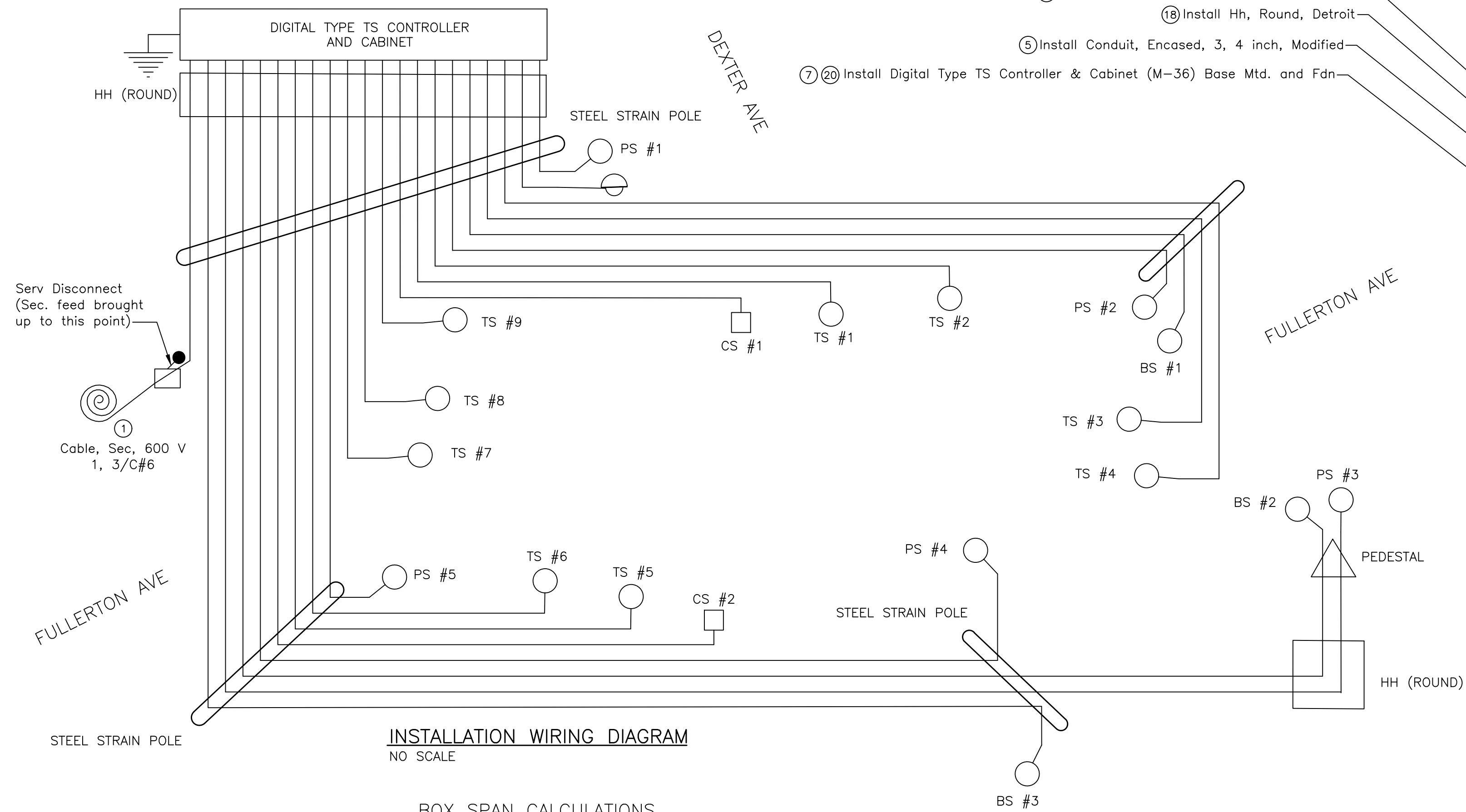


\*Includes Bicycle Traffic Signal Phasing

PHASING DIAGRAM

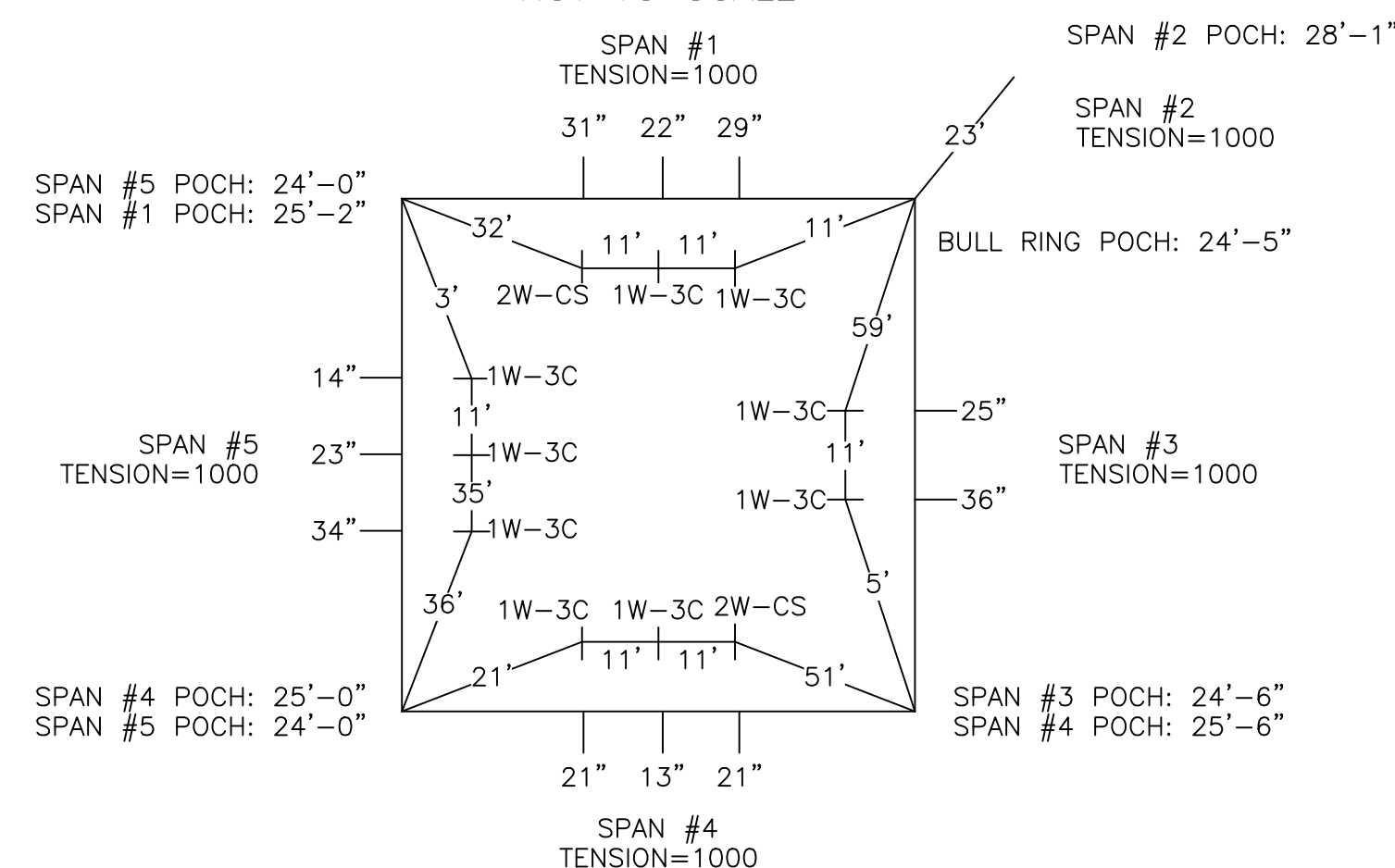
HAZARDOUS OR FLAMMABLE MATERIAL

- 9 10 Install 30' Anchor Base Steel Strain Pole and Fdn POCH=24'-0" (SPAN #5)  
POCH=25'-2" (SPAN #1)
- 14 Install Bracket Arm Mtd. Two-way Pedestrian TS
- 17 21 Install Video Capture and Streaming System on 18 foot Bracket Arm
- 2 Install Serv Disconnect
- 4 Install Conduit, Encased, 2, 3 inch, Modified
- 18 Install Hh, Round, Detroit
- 5 Install Conduit, Encased, 3, 4 inch, Modified
- 7 20 Install Digital Type TS Controller & Cabinet (M-36) Base Mtd. and Fdn



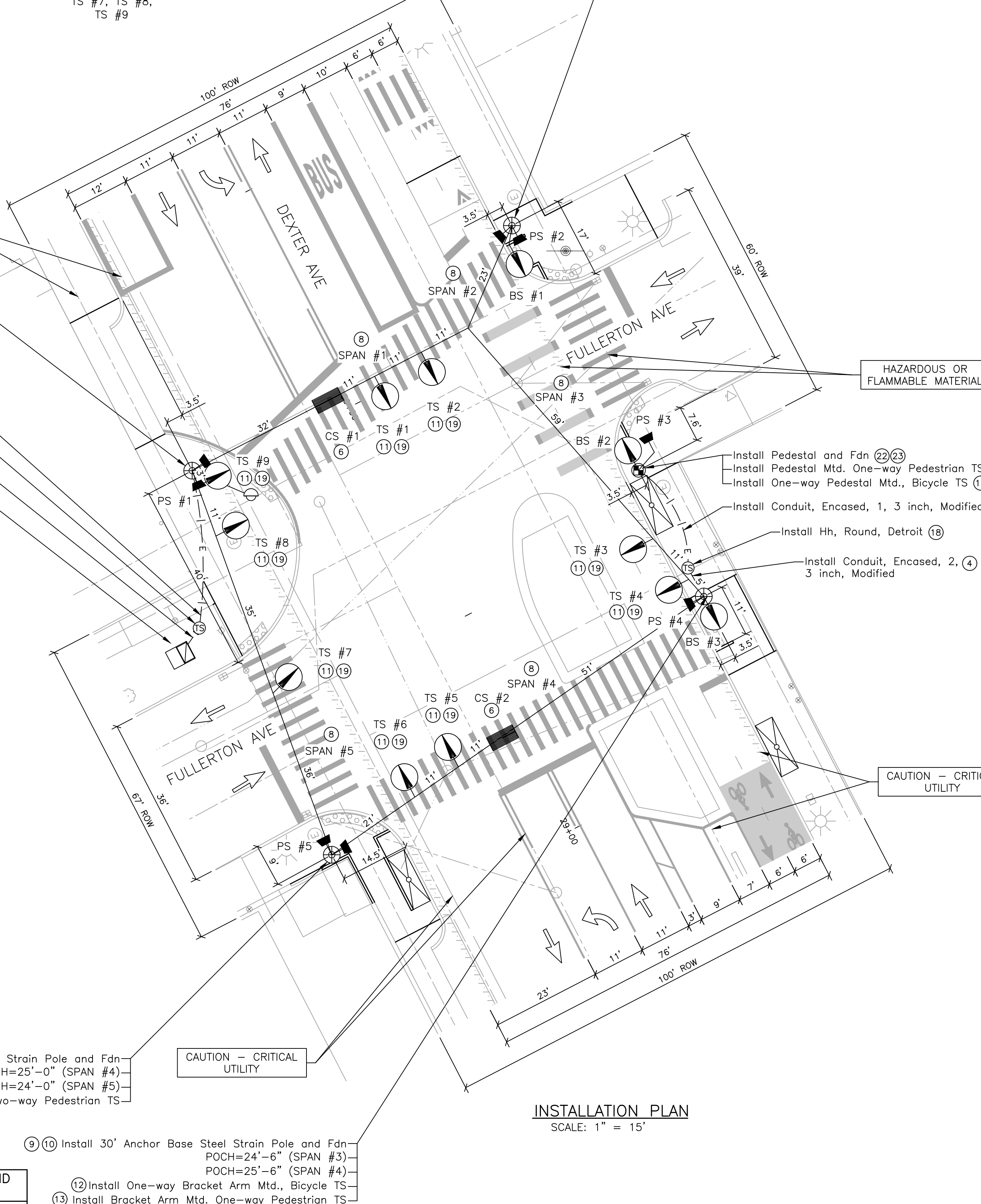
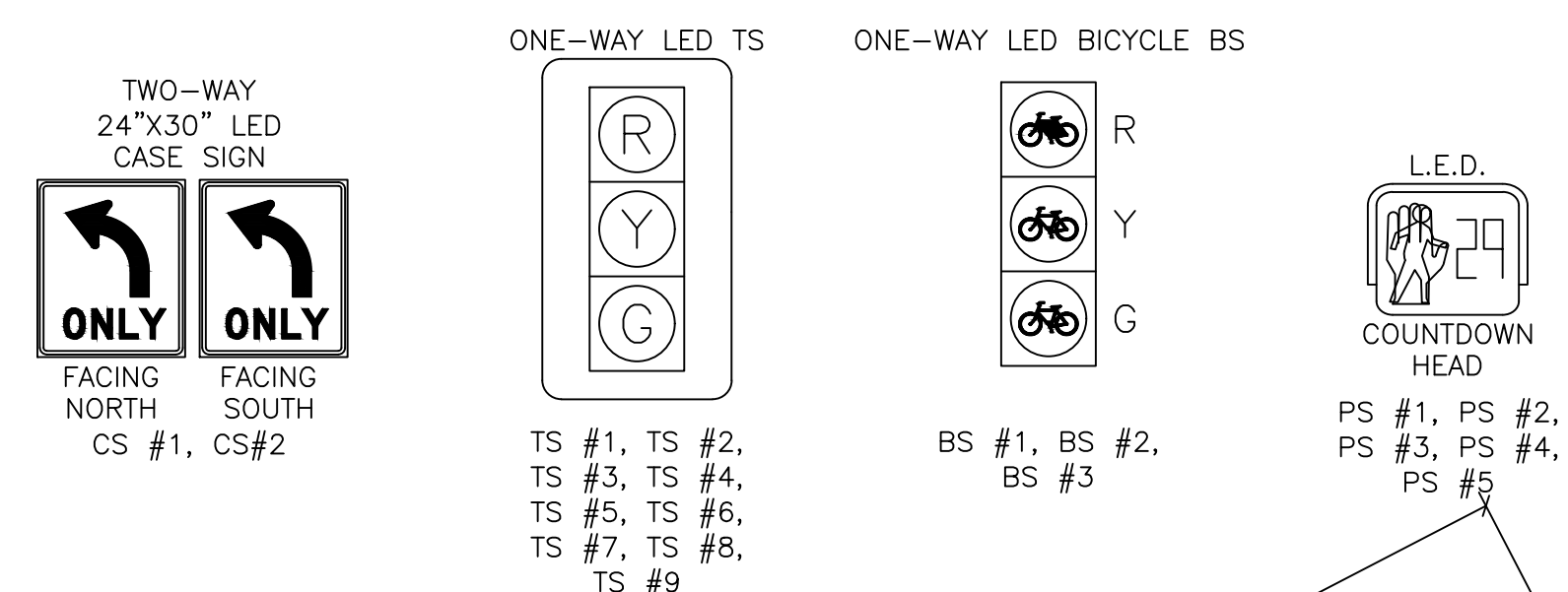
INSTALLATION WIRING DIAGRAM  
NO SCALE

BOX SPAN CALCULATIONS  
NOT TO SCALE



MOUNTING DETAILS FOR POLE AND PEDESTAL MOUNTED PEDESTRIAN AND TRAFFIC SIGNALS

ITEM	MOUNTED ON	REFER TO DETAIL SHEET	REFER TO DETAIL
2-WAY PS	PEDESTAL	1509	D2
2-WAY PS	POLE	1510	D3
1-WAY PS	PEDESTAL	1509	B2
1-WAY PS	POLE	1508	B1
2-WAY TS	PEDESTAL	1509	C2
2-WAY TS	POLE	1510	A3
1-WAY TS	PEDESTAL	1509	A2
1-WAY TS	POLE	1508	A1
TS & PS	PEDESTAL	1509	MOUNT PED SIGNALS ON BACK OF PEDESTAL
TS & PS	POLE	1510	MOUNT PED SIGNALS ON BACK OF POLE



INSTALLATION PLAN  
SCALE: 1" = 15'



DEXTER AVE & FULLERTON AVE  
TRAFFIC SIGNAL INSTALLATION SHEET

SCALE: 1" = 15'  
0 7.5 15 30

PLOT INFO: Z:\2019\191190\CADD\191190\_SIGNAL\_008.DWG LAYOUT: TSINST003 DATE: 7/20/2023 TIME: 10:57:43 AM USER: MSW\SHS

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By MSW  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

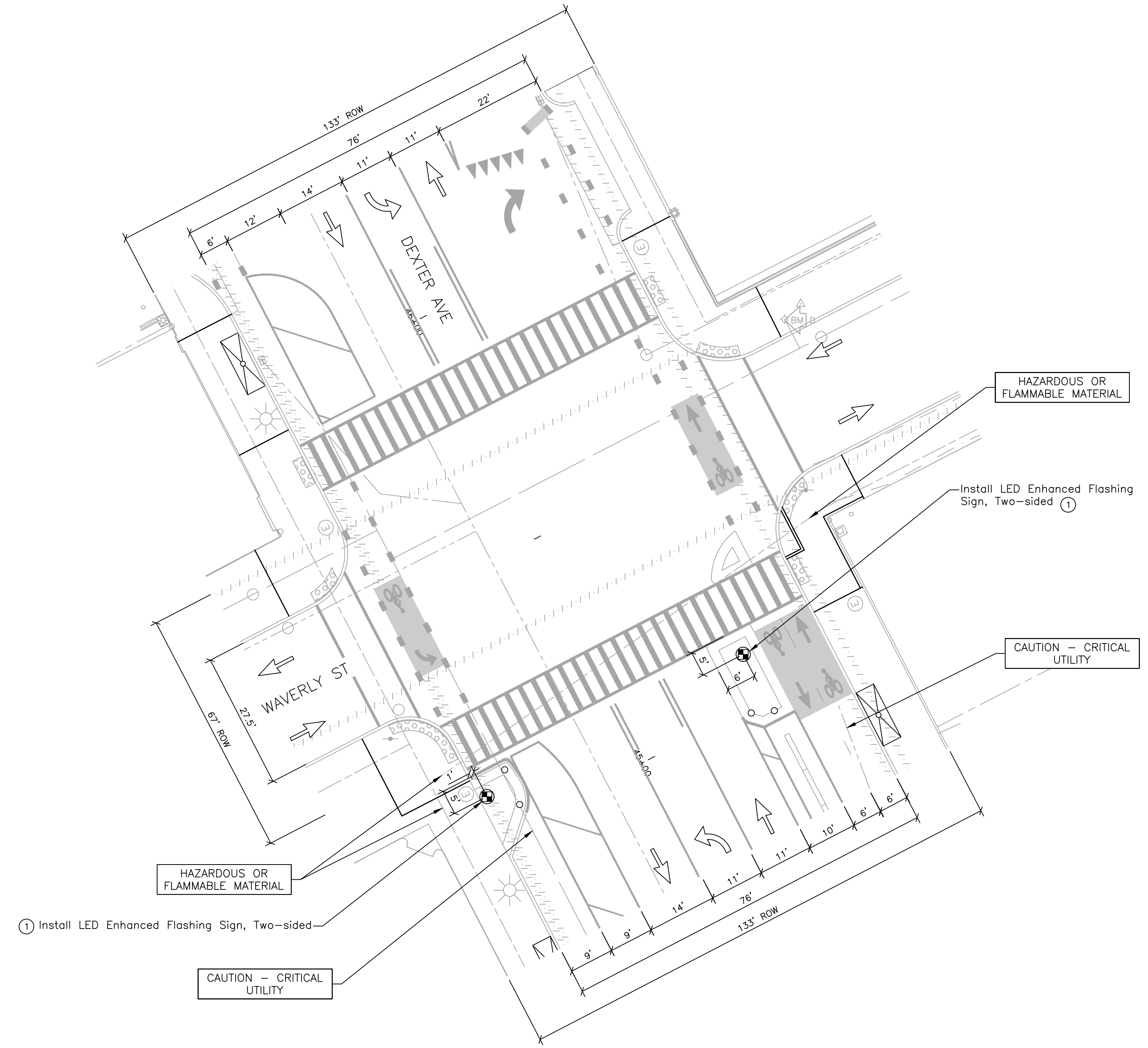
SHEET NO.  
**100**

**TSINST003**

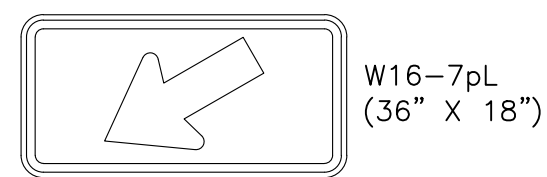
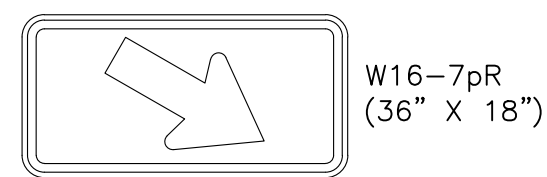
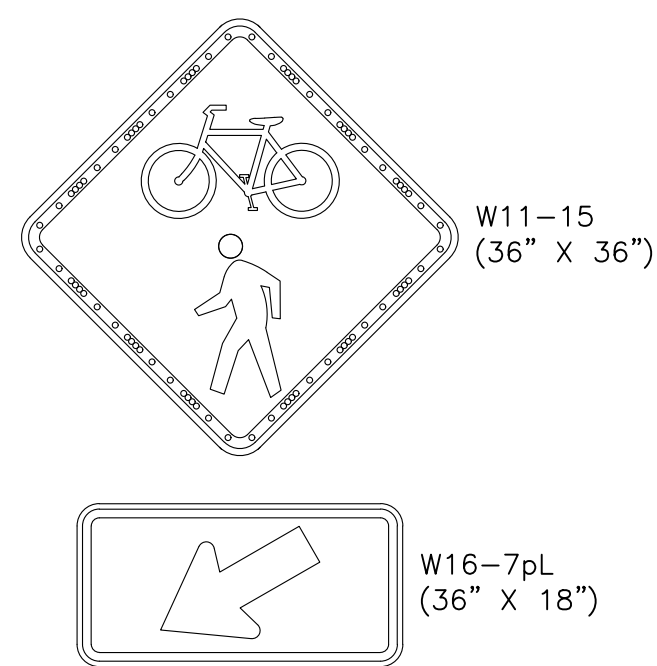
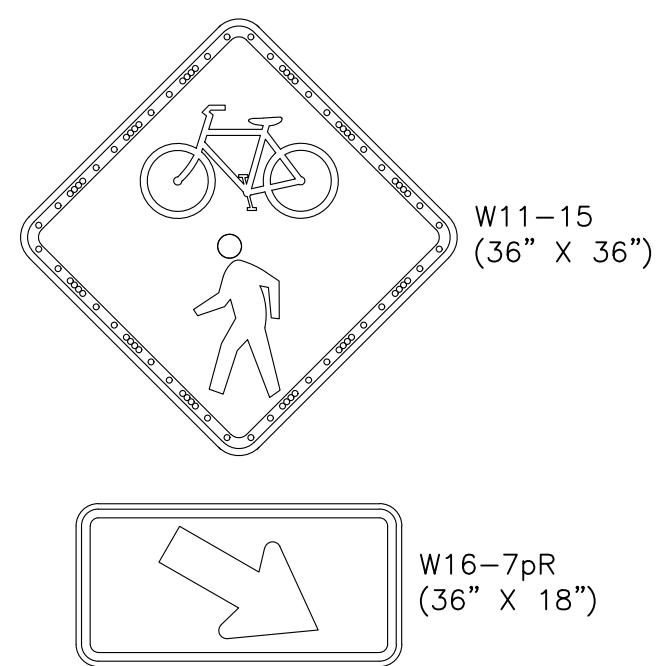
LIST OF MATERIAL			
NO.	ITEM	QUANTITIES	CODE
①	_LED Enhanced Flashing Sign, Two-sided	2 Ea	8207050

NOTES:

1. CONTACT KIRIT PATEL AT (313) 628-5641 OF THE CITY OF DETROIT DPW, TRAFFIC ENGINEERING DIVISION, 48 HOURS PRIOR TO THE ACTIVATION OF NEW TRAFFIC SIGNALS.
2. EXACT LOCATIONS OF PEDESTAL SHALL BE DETERMINED BY THE ENGINEER.
3. REFER TO LED ENHANCED FLASHING SIGN DETAILS AND SPECIAL PROVISION FOR ADDITIONAL DETAILS.
4. LED LIGHTS SHALL OPERATE CONTINUOUSLY FOR THE ENTIRE DAY.



INSTALL LED ENHANCED FLASHING SIGNS



INSTALLATION PLAN  
SCALE: 1" = 15'



DEXTER AVE & WAVERLY ST  
TRAFFIC SIGNAL INSTALLATION SHEET

SCALE: 1" = 15'  
0 7.5 15 30



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

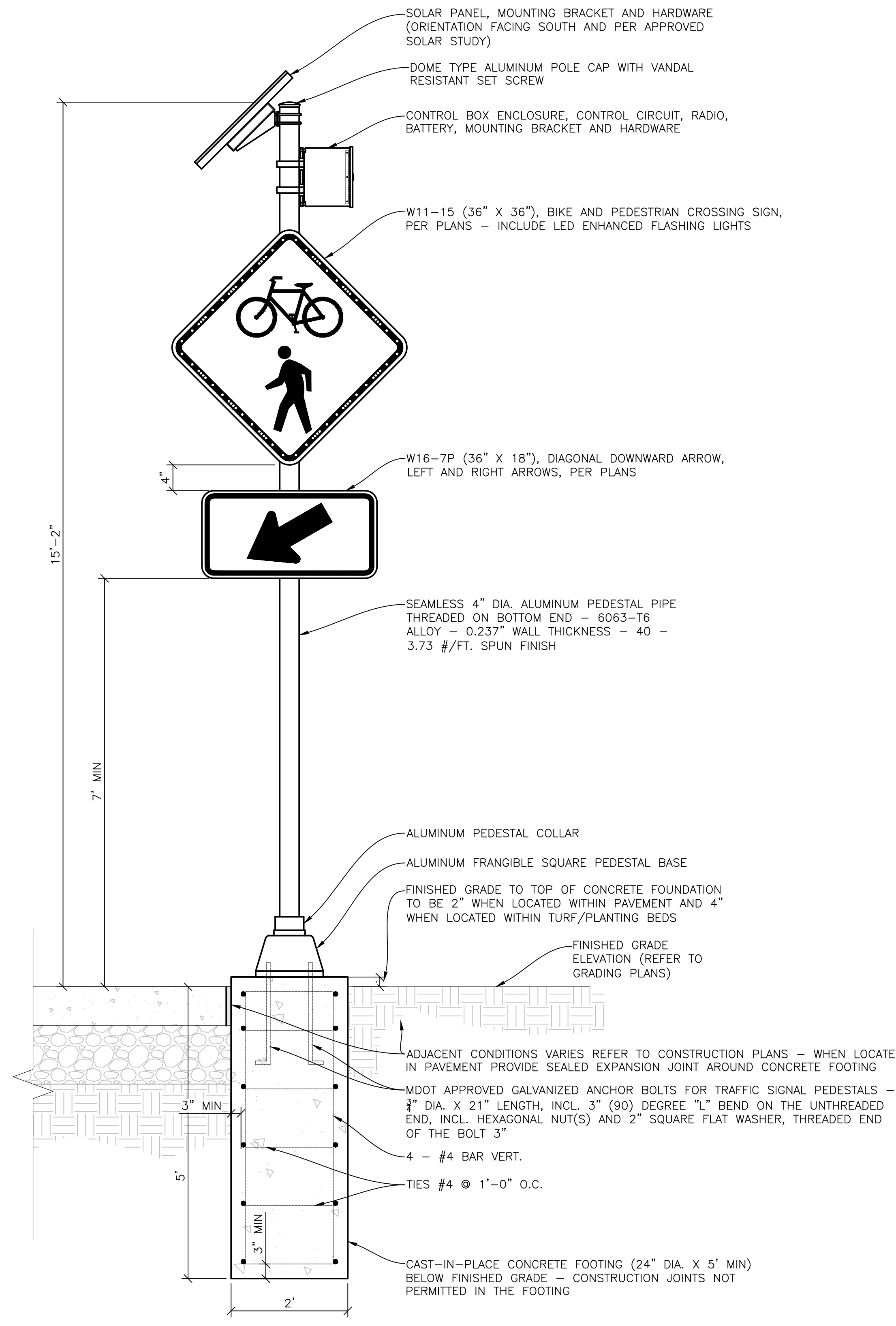
Drawn By	MSW
Designer	KMP
Reviewer	KMR
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

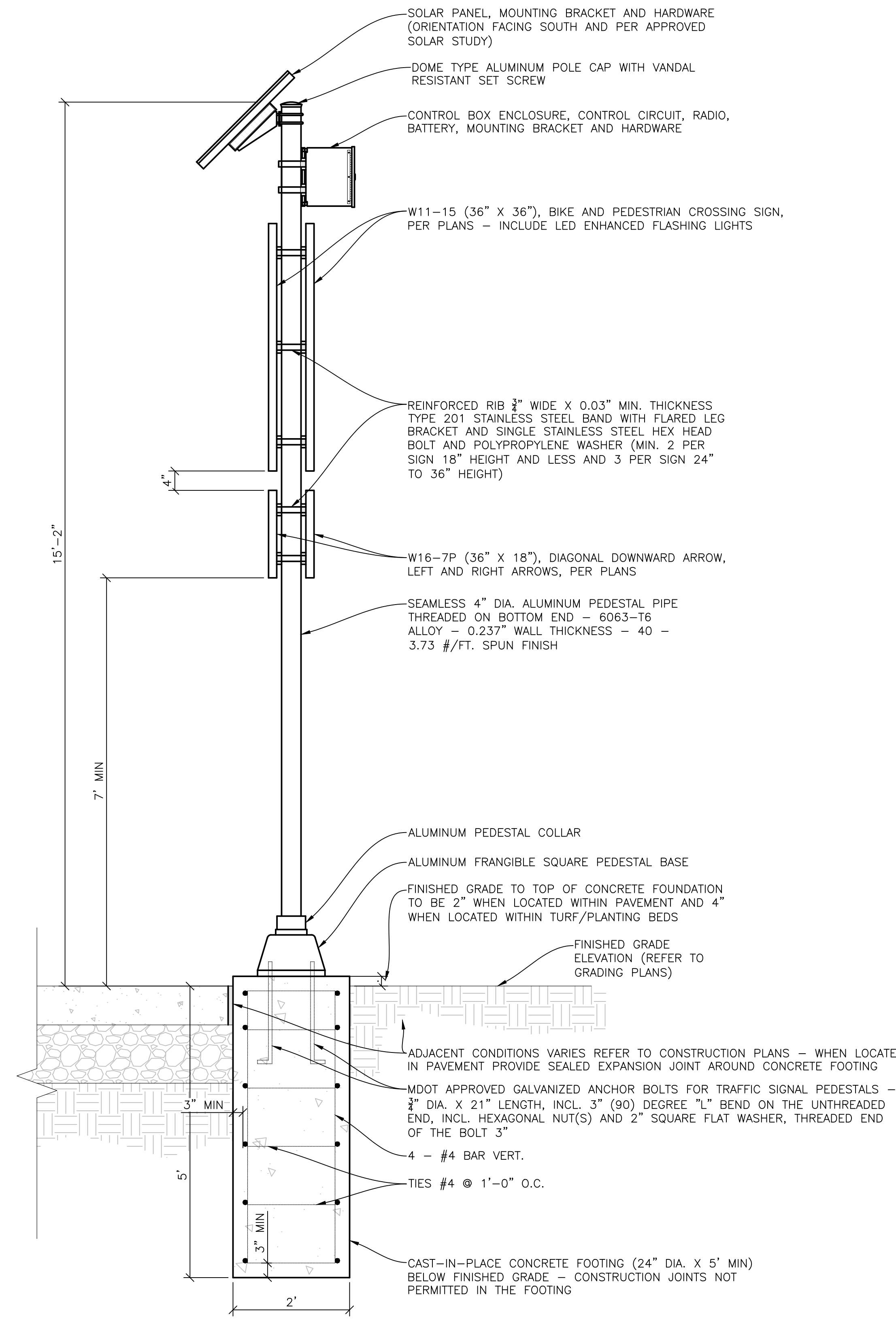
PROJECT NO.  
191190

SHEET NO.

101  
TSINST004



**LED ENHANCED FLASHING SIGN, TWO-SIDED (FRONT VIEW)**  
NO SCALE



**LED ENHANCED FLASHING SIGN, TWO-SIDED (SIDE VIEW)**  
NO SCALE

- NOTES:**
1. REFER TO LED ENHANCED FLASHING SIGNS SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS.
  2. ALL COMPONENTS OF THE LED ENHANCED FLASHING SIGNS SHALL BE PROVIDED PER THE REQUIREMENTS AND STANDARDS OF THE DETROIT TRAFFIC ENGINEERING DIVISION, MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND MDOT.
  3. SIGN AND POST PLACEMENT SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 2'-0" OF CLEARANCE FROM THE FACE OF CURB TO THE CLOSEST EDGE OF THE SIGN.
  4. ALIGN SIGN FACES PERPENDICULAR TO CENTERLINE OF ADJACENT ROADWAY.
  5. LAYOUT OF LED ENHANCED FLASHING SIGNS SHALL BE STAKED BY THE CONTRACTOR FOR ENGINEER AND CITY OF DETROIT TRAFFIC ENGINEERING DIVISION APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION AND INSTALLATION. ADJUSTMENTS TO THE LOCATIONS AND ORIENTATIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.

PLOT INFO: Z:\2019\191190\CADD\191190\_SIGNAL\_010.DWG LAYOUT: TSD01.DWG DATE: 7/16/2023 TIME: 12:30:06 PM USER: KPM\KCONSKI



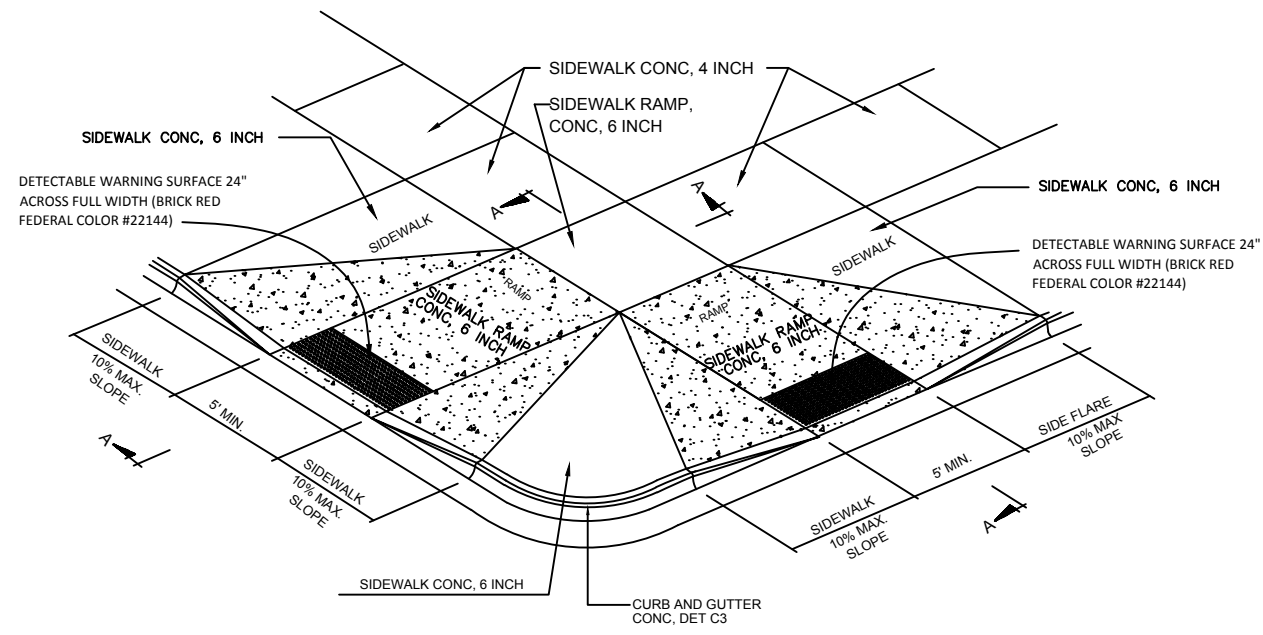
REVISIONS	
07/21/2023	100% CD
06/09/2023	50% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By KMP  
 Designer KMP  
 Reviewer KMR  
 Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

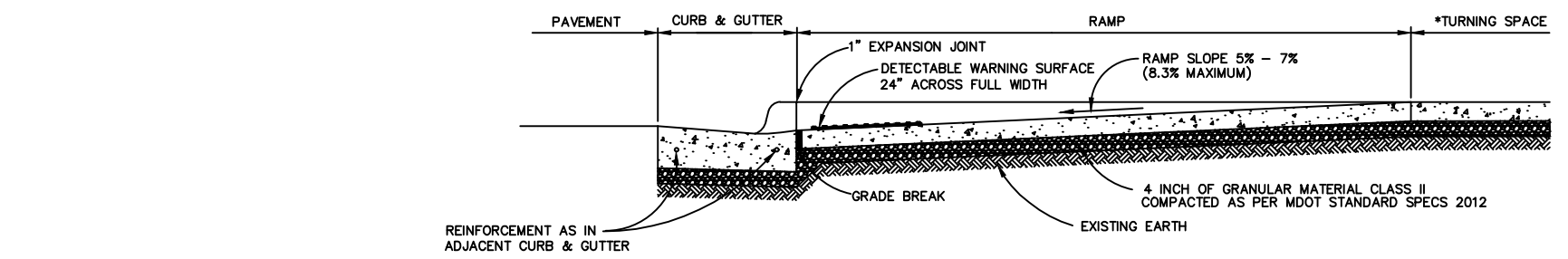
PROJECT NO.  
**191190**  
 SHEET NO.  
**102**  
**TSD01**

S:\DPW\Traffic Engineering Services\DPW Detail Sheets (Master Files) 20190115\CAD Drawings\1100 CONCRETE WORKS AND PARKING LANES MISCELLANEOUS DETAILS 40 scale.dwg, Model, 12/22/2020 1:33

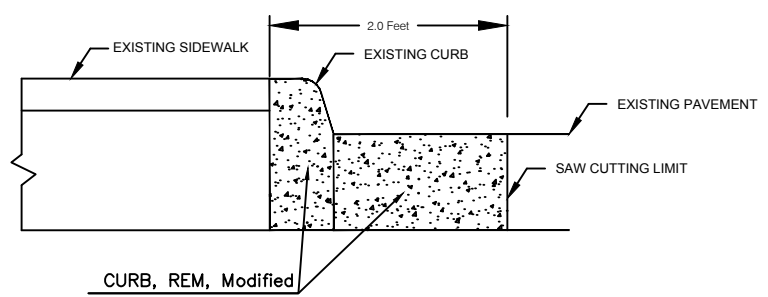


**SIDEWALK RAMP DETAILS**

SCALE: NTS

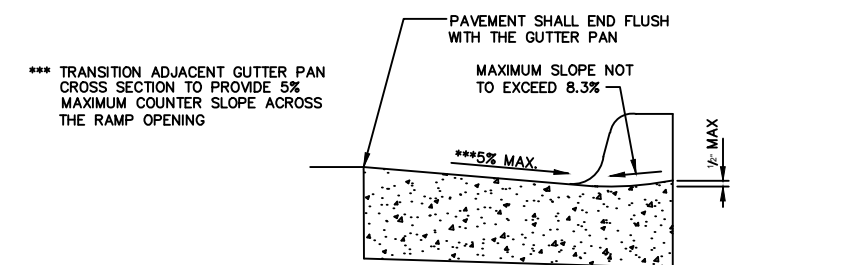


**SECTION A-A**



**CURB REMOVAL CROSS SECTION**

SCALE: NTS



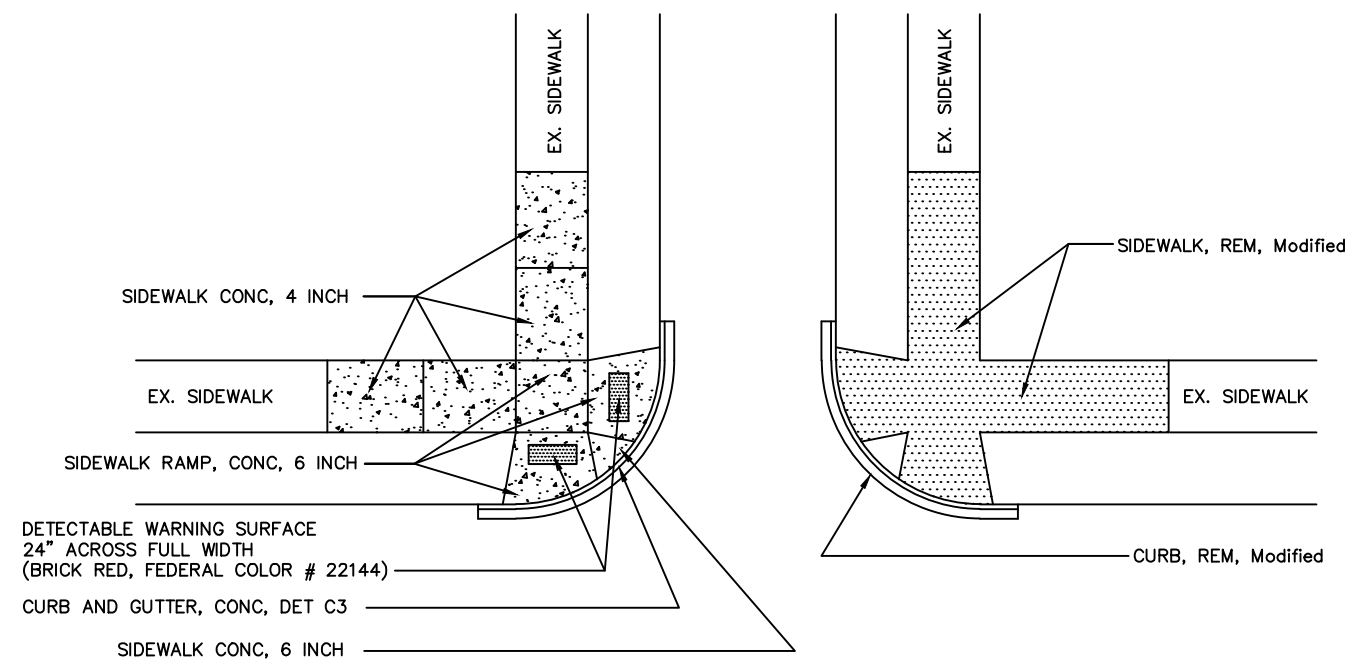
**SECTION THROUGH CURB CUT**

(TYPICAL ALL RAMP TYPES)

SCALE: NTS

**NOTES:**

1. Exact limits to be determined and marked by field engineer
2. It is the contractor responsibility to determine proposed ramps, layout type & slope
3. Proposed sidewalk, sidewalk ramps or curb/curb and gutter to be placed in accordance with MDOT standard details plans R-28-series and R-30-series
4. Where ramps or sidewalks exist, the cost of breaking down and removing, sawing, earth excavation, disposing of materials, and providing, placing, and compacting backfill is included in the unit price for the "Sidewalk, Rem, Modified" pay item. The cost of earth excavation, providing and placing replacement soils or base materials will not be paid separately and it is included in the "Sidewalk, Rem, Modified" pay item .
5. Where ramps or sidewalks do not exist and the plans show installation of new ramps or bus stops, "Excavation, Earth" will be paid to remove the existing grass area in order to install the ramp and "Granular Material Class II" will be paid for the 4 inch base material.
6. During the preparation of base for existing /new sidewalks or ADA ramps. The contractor must excavate to the required depth and to a width that will allow forming. Remove unsuitable material below the required depth and replace with Granular Material Class II. Shape and compact the base to conform to the section shown on the plans.
7. Excavation, Earth and Granular Material Class II pay items and quantities established in the contract are only intended to be used for work where new sidewalks or bus stops are constructed.

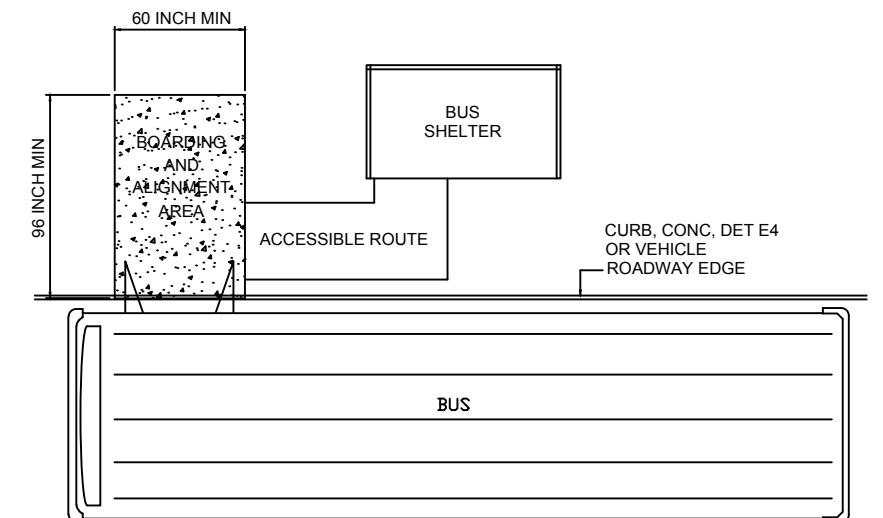


**PROPOSED RAMP**

**REMOVAL**

**ADA RAMP DETAILS PROPOSED AND REMOVAL**

SCALE: NTS



**DIMENSIONS OF BUS BOARDING AREA**

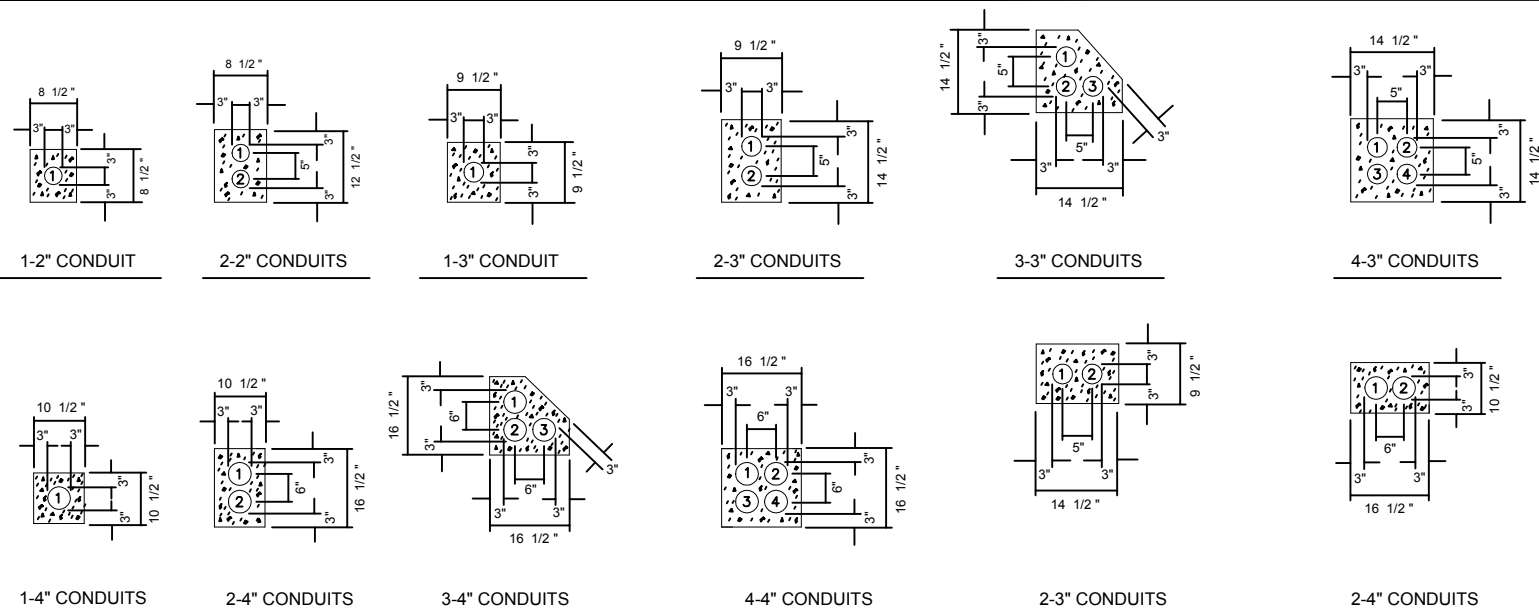
SCALE: NTS

DESIGNED BY		<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION</p>	<p><b>CONCRETE WORKS AND PARKING LANES MISCELLANEOUS DETAILS</b></p>	1100
DRAWN BY				C.S.#: XXX ZZZZ
CHECKED BY				JOB NO.: XXXXXXX
APPROVED BY				January 16, 2020
Final Submittal				SHEET OF XXX
G.I. Submittal	xx-xx-2020			
DESCRIPTION	DATE			

CONTROL SECTION NO.: XXX ZZZZ

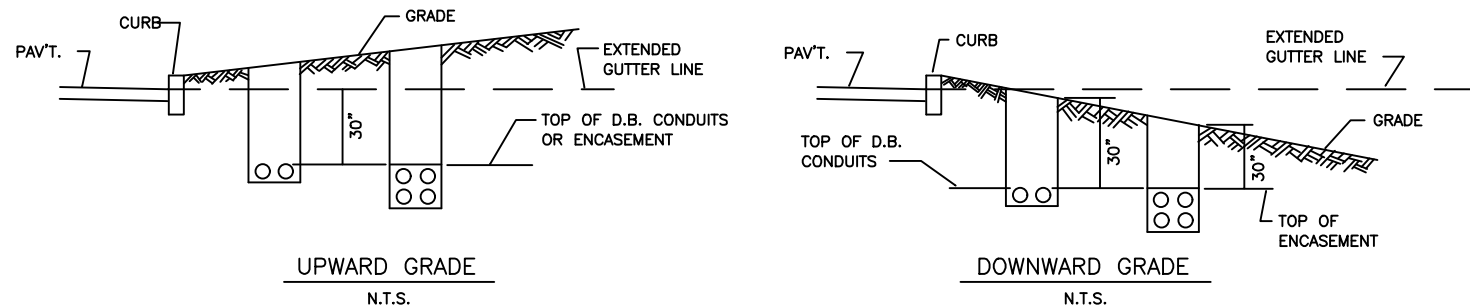
JOB NO.: XXXXXXX

S:\DPW\Traffic Engineering Services\DPW Detail Sheets (Master Files) 20190115\CAD Drawings\1101 CONDUIT DETAIL\St 40 scale.dwg, Model, 12/22/2020 1:34:24 PM, 1:480

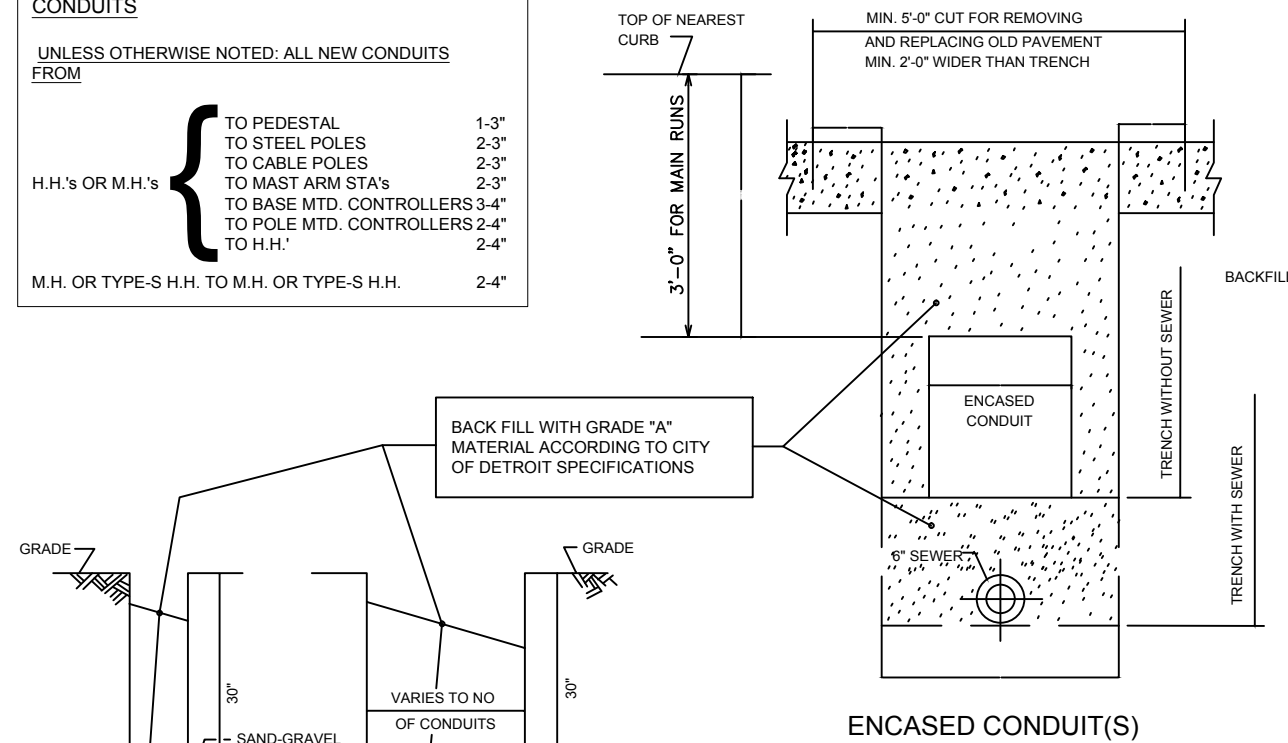


**ALTERNATE CONDUITS ARRANGEMENTS**

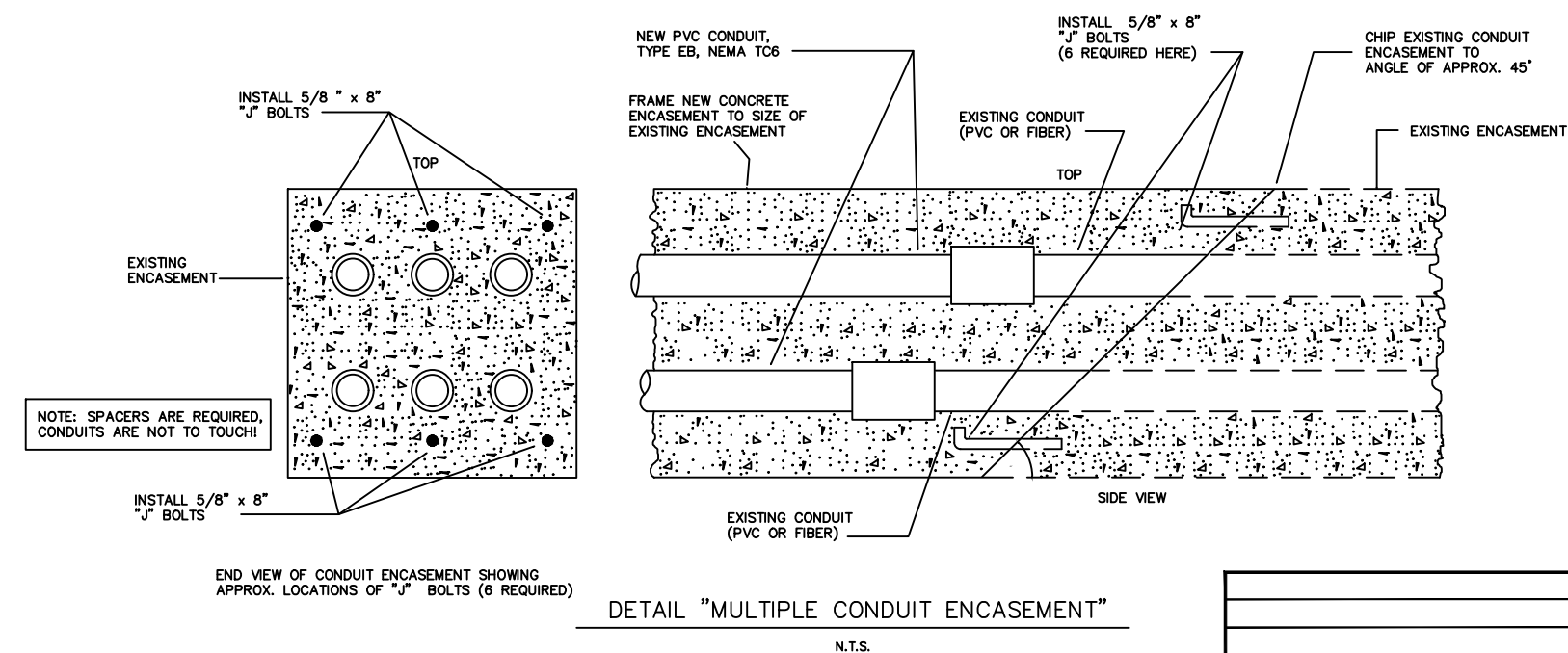
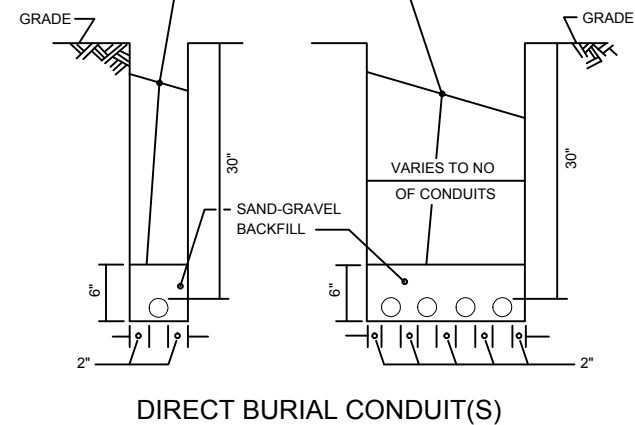
(TO SUIT FIELD CONDITIONS)  
(TO BE APPROVED BY THE ENGINEER)



CONDUITS		
UNLESS OTHERWISE NOTED: ALL NEW CONDUITS FROM		
H.H.'s OR M.H.'s	TO PEDESTAL	1-3"
	TO STEEL POLES	2-3"
	TO CABLE POLES	2-3"
	TO MAST ARM STA's	2-3"
	TO BASE MTD. CONTROLLERS	3-4"
M.H. OR TYPE-S H.H. TO M.H. OR TYPE-S H.H.	TO POLE MTD. CONTROLLERS	2-4"
	TO H.H.'	2-4"



NOTE:  
PREFERRED TRENCH WIDTH "W" NOT WIDER THAN CONDUIT ENCASEMENT WIDTH "D".



DESIGNED BY	
DRAWN BY	
Final Submittal	CHECKED BY
G.I. Submittal	APPROVED BY
DESCRIPTION	DATE

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC ENGINEERING DIVISION

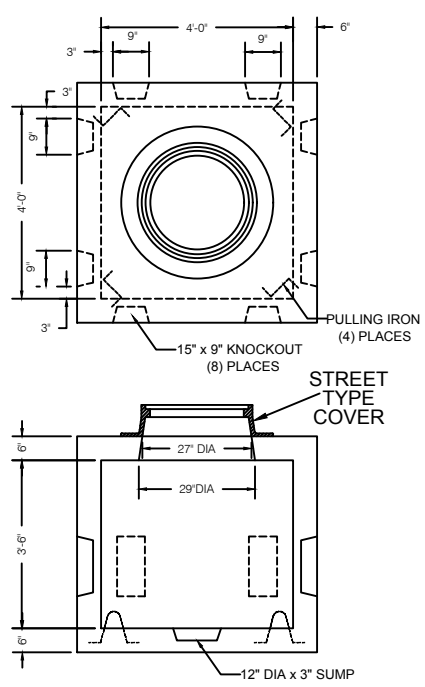
**CONDUIT DETAIL**

**1101**  
C.S.#: XXX ZZZZ  
JOB NO.: XXXXXX  
January 16, 2020  
SHEET OF XXX

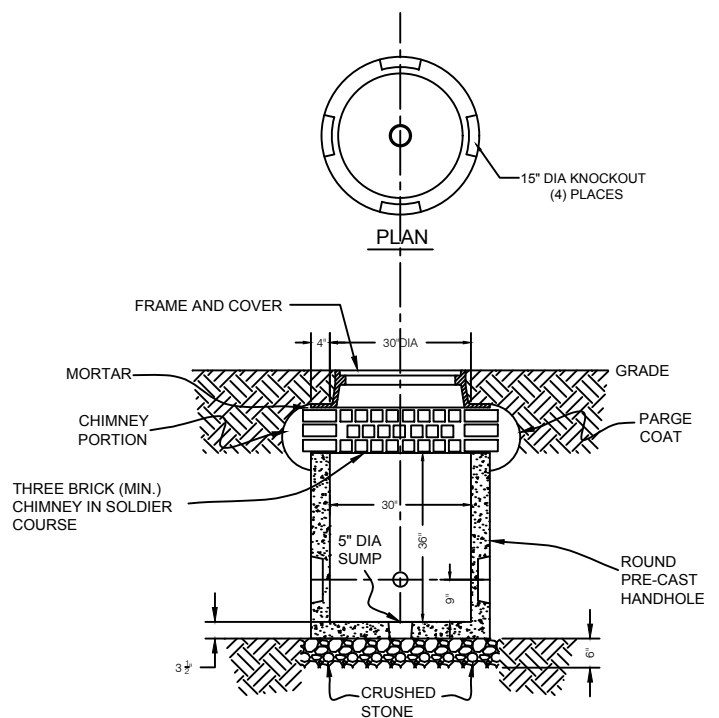
CONTROL SECTION NO.: XXX ZZZZ

JOB NO.: XXXXXX



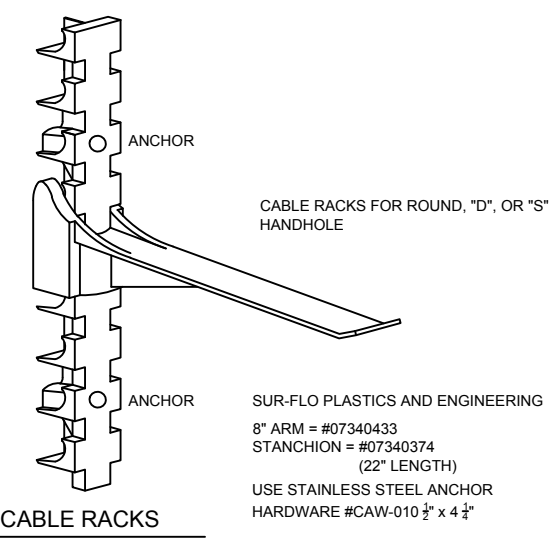


**TYPE "S" HANDHOLE**  
N.T.S.



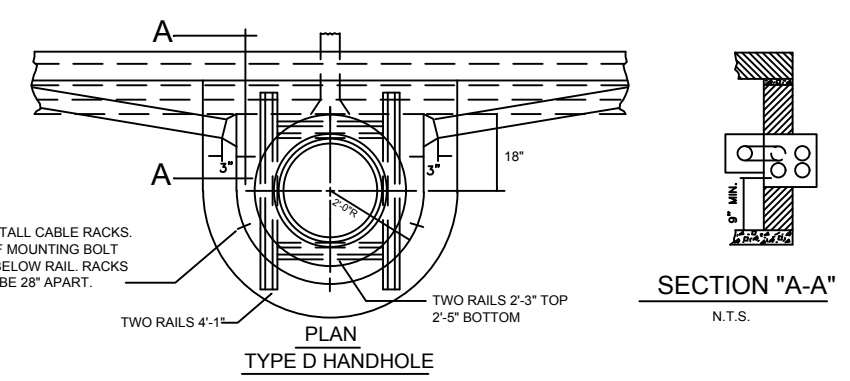
**ROUND HANDHOLE**  
N.T.S.

1. REINFORCING ROD IS A706 GRADE 60.
2. BRICK IS STANDARD STYLE, NOT SEWER BLOCK.
3. CONDUIT MUST ENTER HANDHOLE STRAIGHT AND BE FLUSH WITH STRUCTURE WALLS-END BELLS INCLUDED.

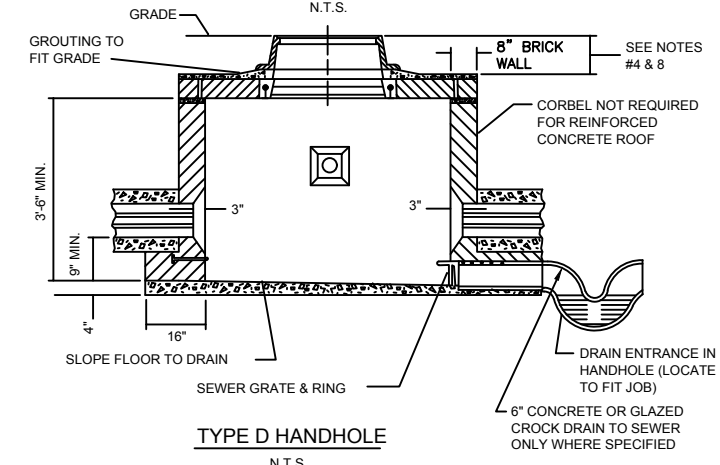


**CABLE RACKS**  
N.T.S.

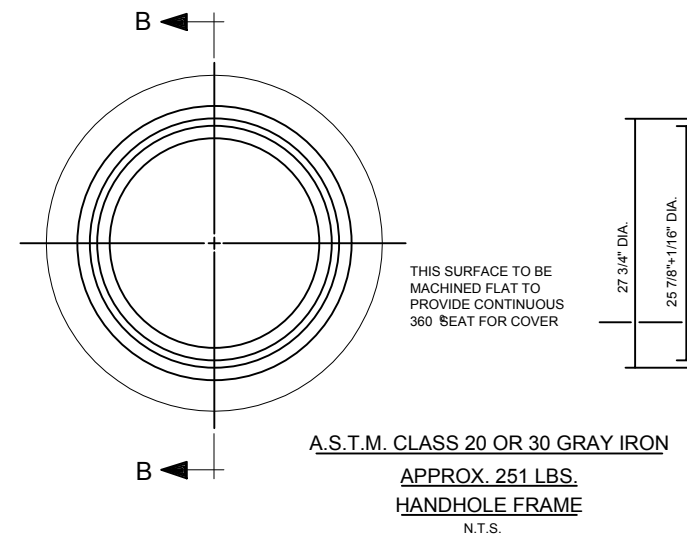
**NOTE**  
BELL ENDS ARE REQUIRED ON EACH CONDUIT BROKEN OUT IN HANDHOLE. TYPE AND SIZE SHALL BE IDENTICAL TO CONDUIT TYPE AND SIZE.



**TYPE "D" HANDHOLE**  
N.T.S.



**TYPE "D" HANDHOLE**  
N.T.S.

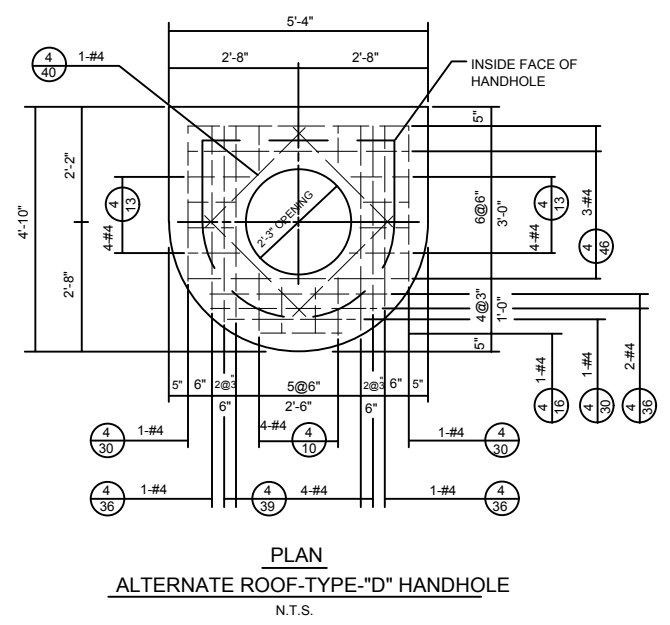


**A.S.T.M. CLASS 20 OR 30 GRAY IRON**  
**APPROX. 251 LBS.**  
**HANDHOLE FRAME**  
N.T.S.

**NOTE**  
ALL FILLETS ARE 1/2\"/>

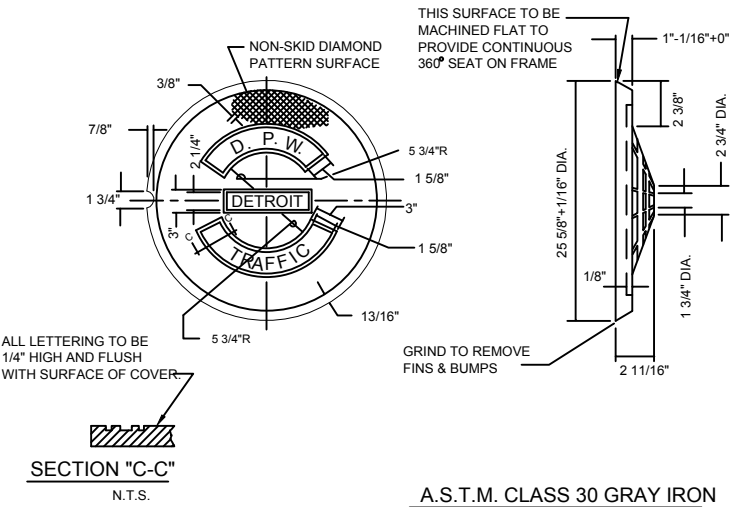


**ELEVATION**



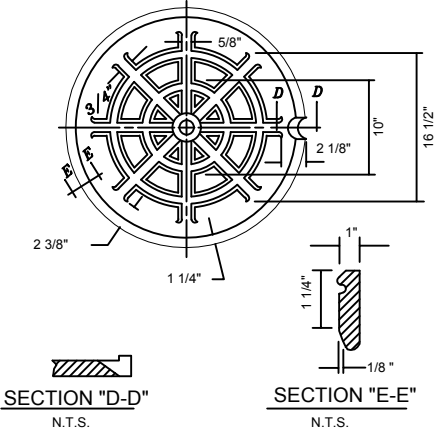
**PLAN**  
**ALTERNATE ROOF-TYPE-"D" HANDHOLE**  
N.T.S.

TYPE "D" HANDHOLE		
TABLE FOR #4 BARS		
MARK	NO.	LENGTH
4-46	3	4'-6"
4-40	4	4'-0"
4-39	4	3'-9"
4-36	4	3'-6"
4-30	3	3'-0"
4-16	1	18"
4-13	8	15"
4-10	4	12"



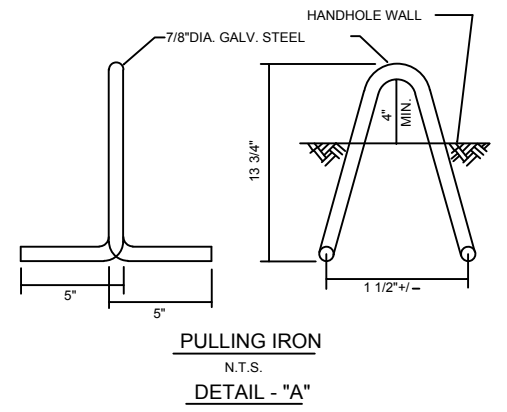
**SECTION "C-C"**  
N.T.S.

**A.S.T.M. CLASS 30 GRAY IRON**  
**APPROX. WT. 145 LBS.**  
**STREET TYPE COVER**  
N.T.S.



**SECTION "D-D"**  
N.T.S.

**SECTION "E-E"**  
N.T.S.



**PULLING IRON**  
N.T.S.  
**DETAIL - "A"**

**NOTES:**

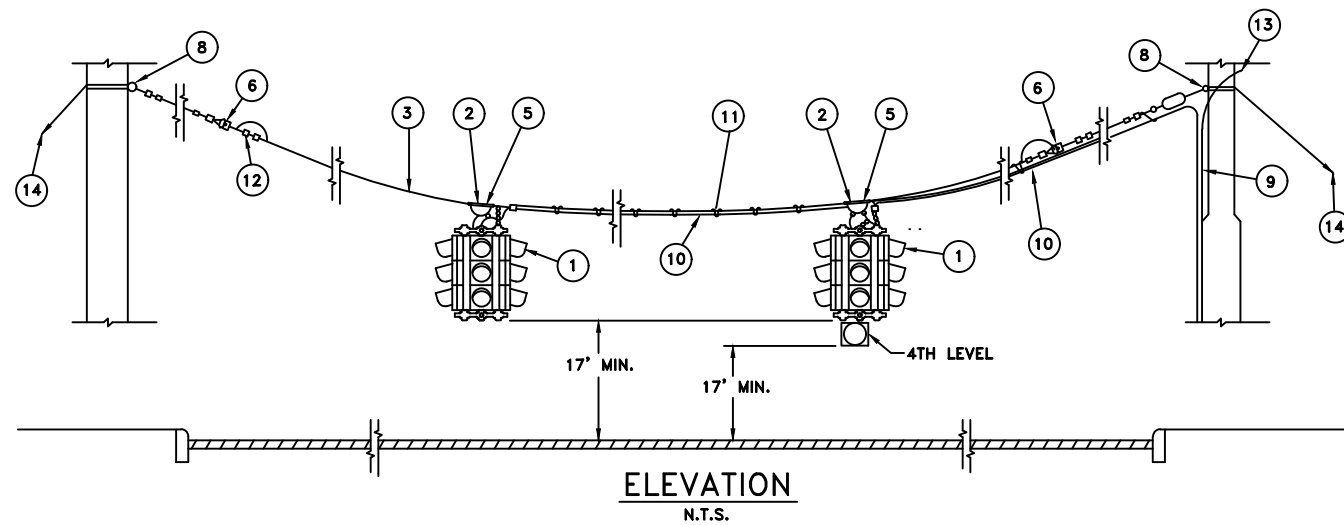
1. DUCT ENTRANCE TO BE BUILT AS REQUIRED.
2. ALL RAILS TO BE 60#YD. OR HEAVIER.
3. CABLE PULLING IRONS TO BE GALVANIZED
4. IN PAVEMENT PROVIDE AT LEAST 6" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROP. FUTURE GRADE INSTALL BRICK RING OR GROUT (AS REQ'D.) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.
5. BAR NUMBERS DENOTE THE SIZE OF BAR REQUIRED IN ACCORDANCE WITH CURRENT USAGE SPECIFIED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
6. EXCAVATION LIMITS FOR DEPARTMENT OF PUBLIC WORKS HANDHOLES SHALL BE ON VERTICAL PLANES OF THE FOOTING OUTLINE.
7. INSTALL ANCHORS & CABLE-RACKS AS SHOWN.
8. WHERE HANDHOLES ARE LOCATED BACK OF CURBS ROOF MUST BE BUILT 18" BELOW CURB GRADE, TO PROVIDE FOR FUTURE WIDENING.

DESIGNED BY	
DRAWN BY	
Final Submittal	CHECKED BY
G.I. Submittal	APPROVED BY
DESCRIPTION	DATE

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC ENGINEERING DIVISION

**1103**  
**HANDHOLE DETAILS**

C.S.#: XXX ZZZZ
JOB NO.: XXXXXXA
January 16, 2020
SHEET OF XXX

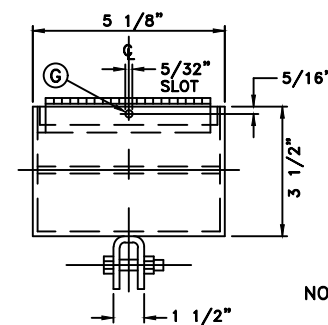
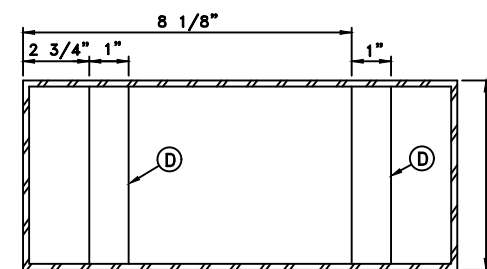
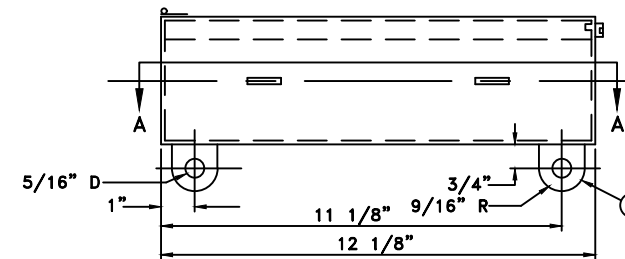
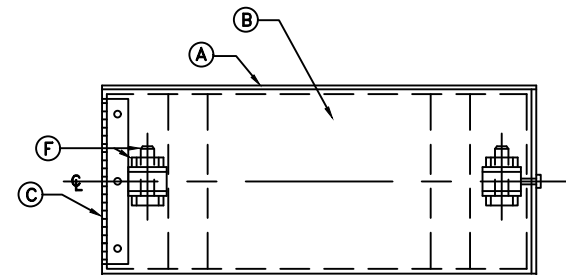


NO.	ITEMS
1	TRAFFIC SIGNAL (HEAD CONFIGURATION AS INDICATED ON PLANS)
2	SPAN WIRE HANGER
3	5/16" SPAN WIRE (USE EXTRA HIGH STRENGTH AS PER SPEC.)
5	ARMOR ROD
6	STRAIN INSULATOR
8	3/4" EYEBOLT
9	SPLIT PLASTIC CONDUIT
10	#16 T.S. CABLE (AS SPECIFIED)
11	PREFORMED STEEL LASHING RODS
12	WIRE ROPE CLIPS OR PREFORMED DEAD ENDS & #10 JUMPER COPPER
13	2/C-#8 CABLE FOR SERVICE (WHEN REQ'D.)
14	3/8" GUY, GUARD AND ANCHOR

**NOTE:**  
INSTALL 5/8" X 8'-0" COPPER CLAD GROUND ROD(S) AS REQUIRED TO PROVIDE LESS THAN 10 OHM RESISTANCE TO GROUND. INSTALL #2 COPPER GROUND WIRES FROM GROUND ROD(S) TO SPAN WIRE AT EACH SUPPORTING POLE USING NON-SOLDER TYPE CONNECTIONS FOR SPAN WIRE GROUNDING.

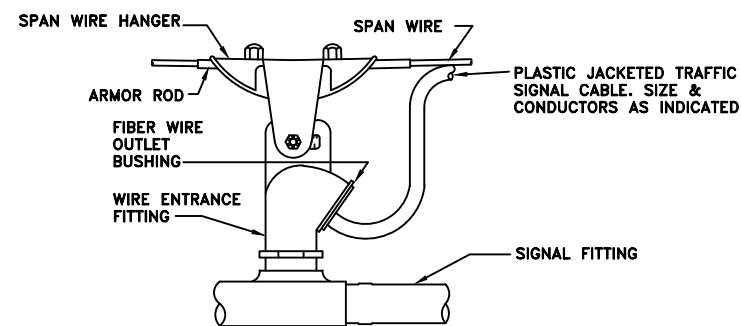
**MATERIAL FOR JUNCTION BOX**

- (A) BOX-#14 B & S ALUMINUM
- (B) LID-#14 B & S ALUMINUM
- (C) PIANO HINGE
- (D) TERMINAL MOUNTING STRAPS-#10 B & S
- (E) MOUNTING LUGS-#8 B & S ALUMINUM
- (F) 1/4" BOLT & NUT
- (G) 1/8" SHEET METAL SCREW

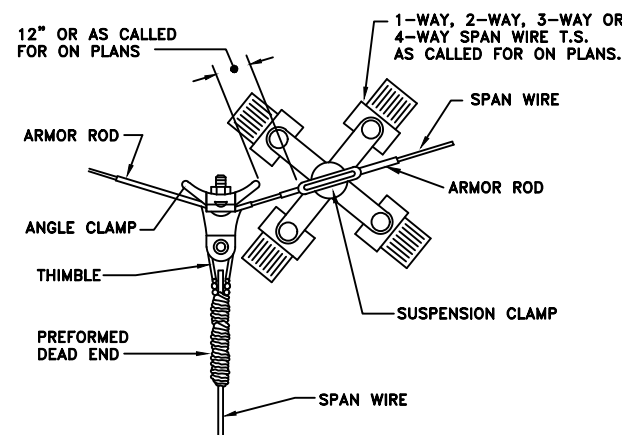


**NOTE:** BOX TO BE OF WEATHER TIGHT CONSTRUCTION

**ALUMINUM JUNCTION BOX FOR SPANWIRE MOUNTING**  
N.T.S.



**SPAN WIRE FITTING & WEATHER CAP**  
N.T.S.



**PULL-OFF CONNECTION FOR 3-WAY SUSPENSION**

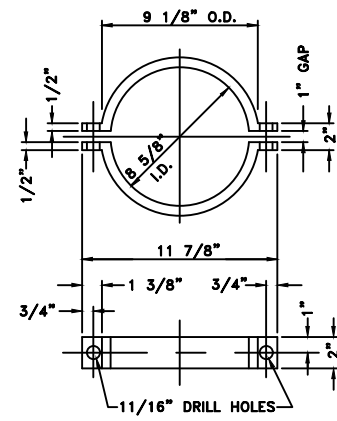
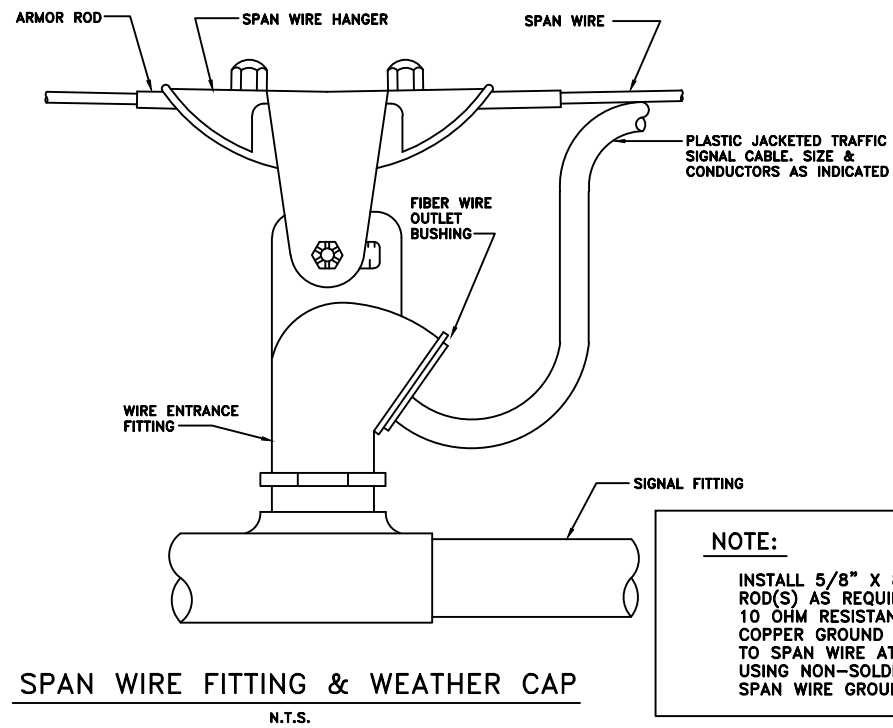
DESIGNED BY	
DRAWN BY	
Final Submittal	CHECKED BY
G.I. Submittal	APPROVED BY
DESCRIPTION	DATE

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC ENGINEERING DIVISION

**WOOD POLE SPAN WIRE INSTALLATION DETAILS**

**1506**  
C.S.#: XXX ZZZZ  
JOB NO.: XXXXXX  
January 16, 2020  
SHEET OF XXX

S:\DPW\Traffic Engineering Services\DPW Detail Sheets (Master Files) 20190115\CAD Drawings\1507 STEEL POLE SPAN WIRE INSTALLATION DETAILS 40 scale.dwg, Model, 12/22/2020 1:40:41 PM, 1:480

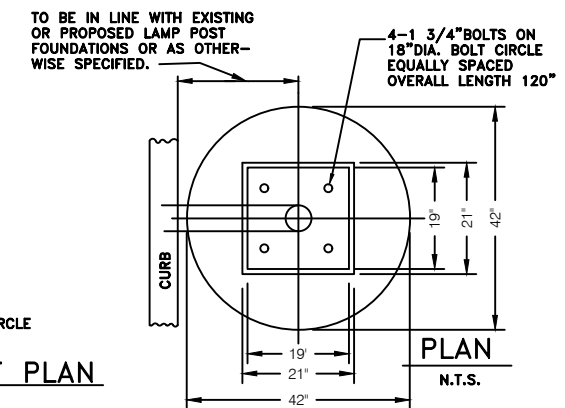
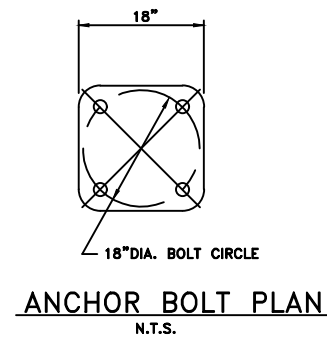


**SPAN WIRE CLAMP**  
N.T.S.  
MATERIAL: 1/2" X 1/2" GALVANIZED STEEL

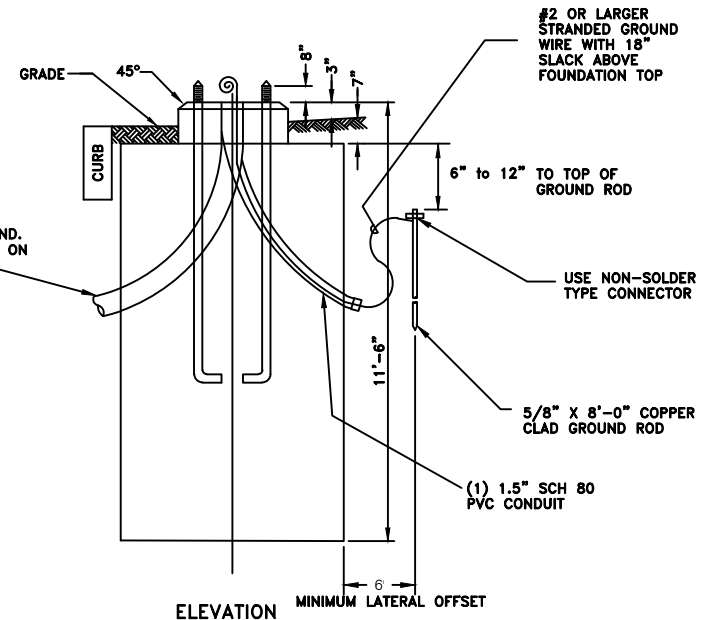
**NOTE:**

INSTALL 5/8" X 8'-0" COPPER CLAD GROUND ROD(S) AS REQUIRED TO PROVIDE LESS THAN 10 OHM RESISTANCE TO GROUND. INSTALL #2 COPPER GROUND WIRES FROM GROUND ROD(S) TO SPAN WIRE AT EACH SUPPORTING POLE USING NON-SOLDER TYPE CONNECTIONS FOR SPAN WIRE GROUNDING.

All foundations shall be designed to be 36" diameter by 11' 6" deep foundations. However, in the event that a conflict in the field inhibits achieving a 11' 6" depth, a 42" diameter with a reduced depth may be built (on engineer's direction) to mitigate field issues.

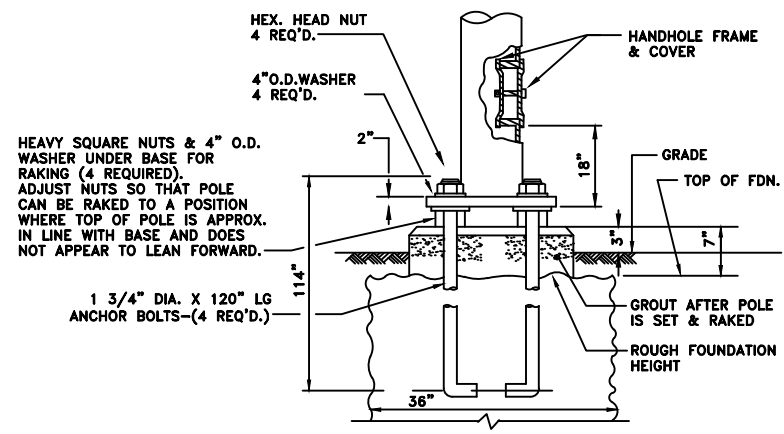


2-3" 24" RADIUS PLASTIC BEND, UNLESS OTHERWISE SPECIFIED ON PLANS

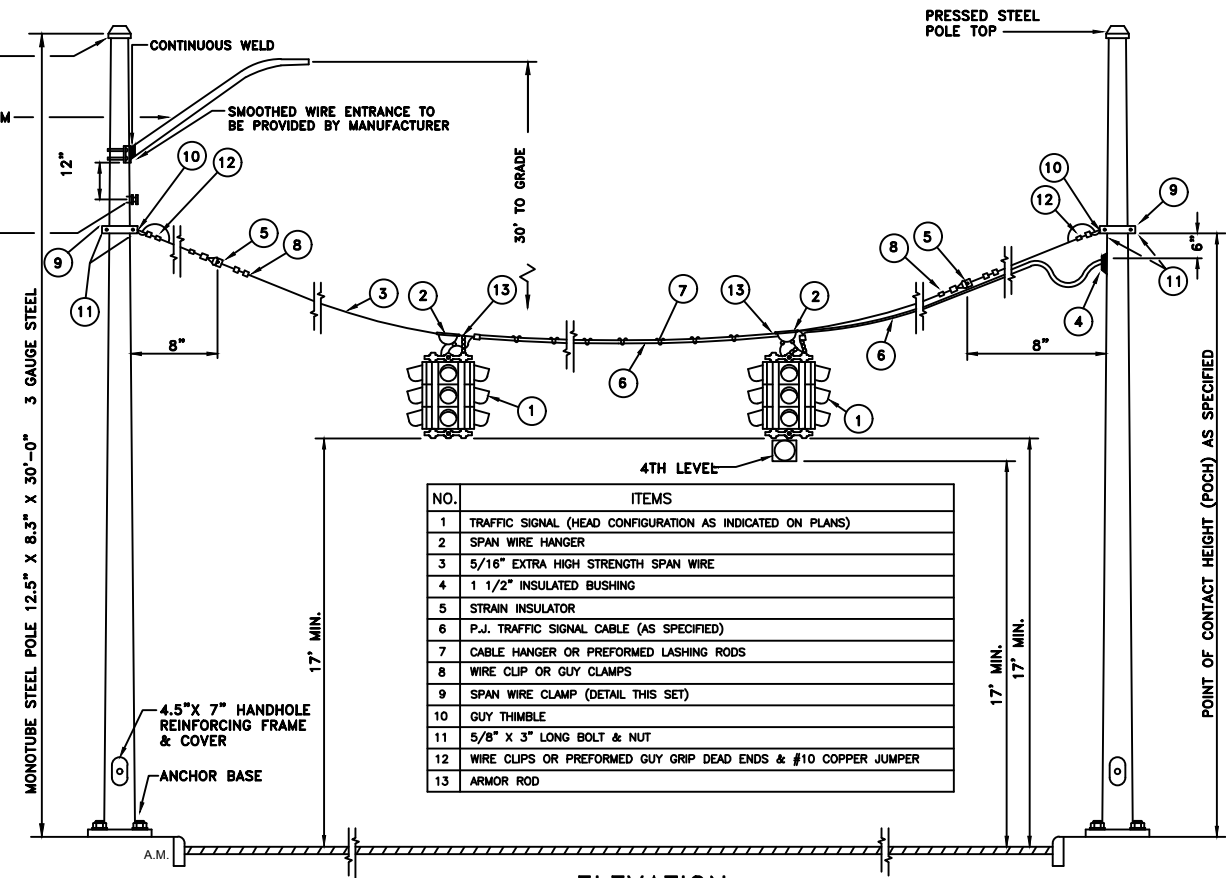


**SPAN WIRE STEEL POLE FOUNDATION**  
N.T.S.

ALL FOUNDATION CAPS SHALL HAVE A SMOOTH FINISH WITH BEVELED EDGES & SHALL BE SHAPED TO ALLOW COMPLETE DRAINAGE OF WATER. ANCHOR BOLT PROJECTIONS ABOVE CAP SHALL BE CLEANED OF ALL CONCRETE & FULLY USABLE THEIR FULL LENGTH.

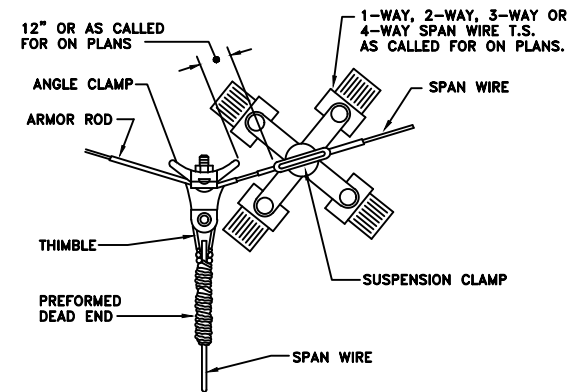


**BOLT LAYOUT FOR STRAIN POLE FOUNDATION**  
N.T.S.



NO.	ITEMS
1	TRAFFIC SIGNAL (HEAD CONFIGURATION AS INDICATED ON PLANS)
2	SPAN WIRE HANGER
3	5/16" EXTRA HIGH STRENGTH SPAN WIRE
4	1 1/2" INSULATED BUSHING
5	STRAIN INSULATOR
6	P.J. TRAFFIC SIGNAL CABLE (AS SPECIFIED)
7	CABLE HANGER OR PREFORMED LASHING RODS
8	WIRE CLIP OR GUY CLAMPS
9	SPAN WIRE CLAMP (DETAIL THIS SET)
10	GUY THIMBLE
11	5/8" X 3" LONG BOLT & NUT
12	WIRE CLIPS OR PREFORMED GUY GRIP DEAD ENDS & #10 COPPER JUMPER
13	ARMOR ROD

**ELEVATION**  
N.T.S.

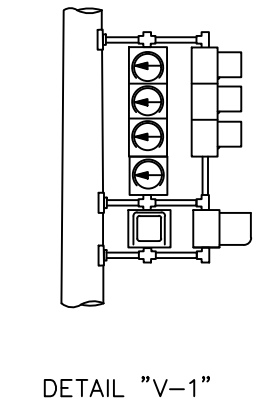
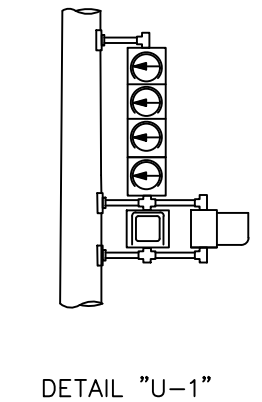
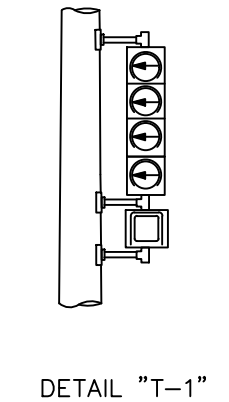
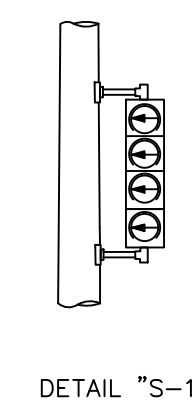
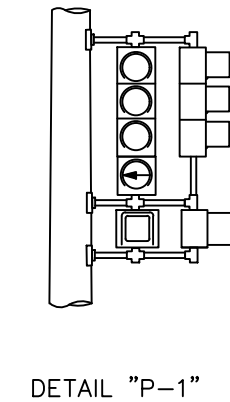
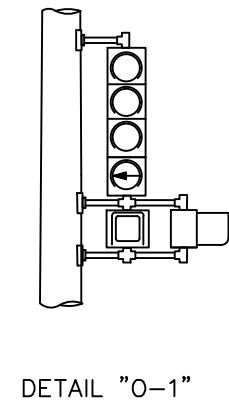
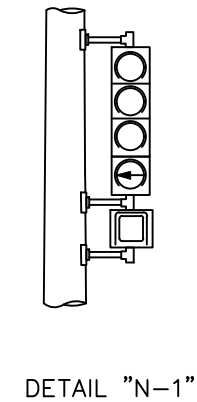
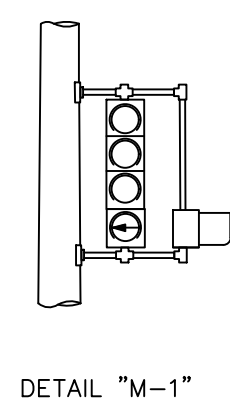
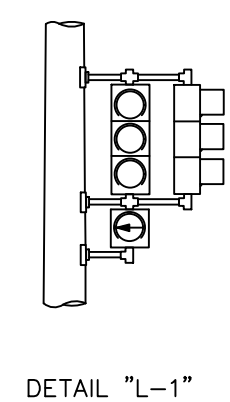
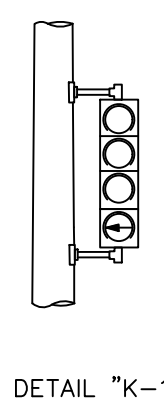
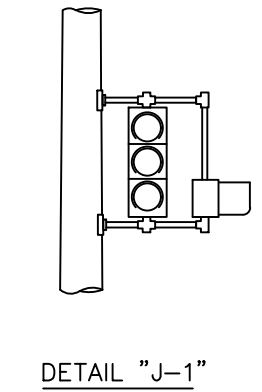
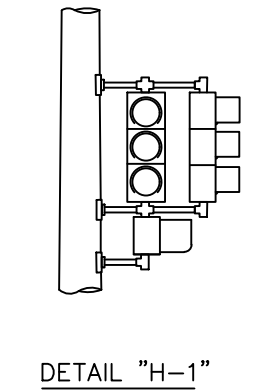
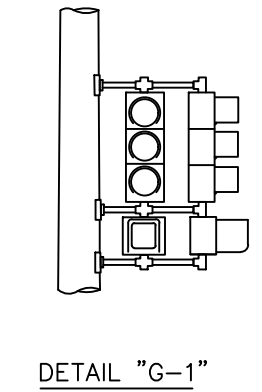
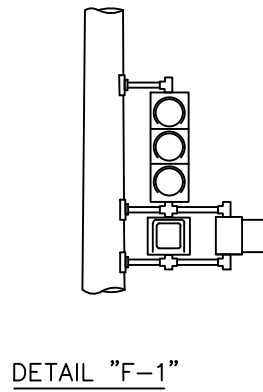
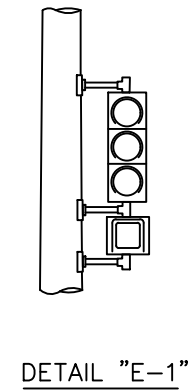
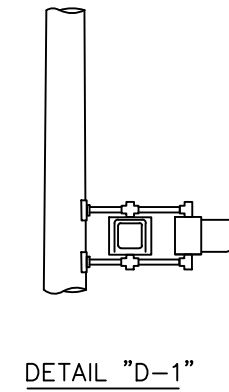
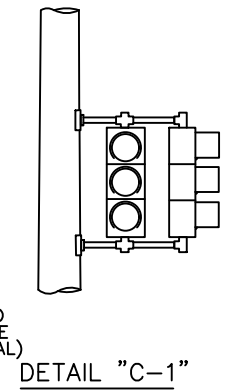
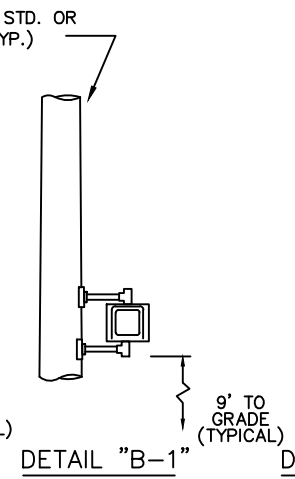
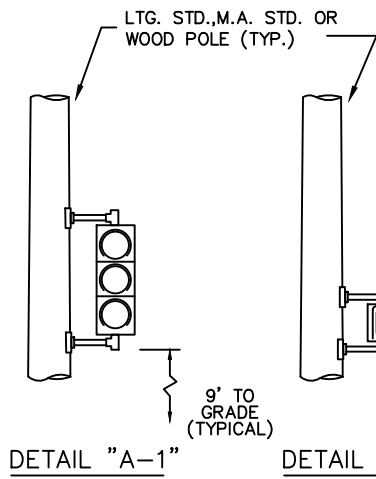


**PULL-OFF CONNECTION FOR 3-WAY SUSPENSION**

DESIGNED BY			<b>STEEL POLE SPAN WIRE INSTALLATION DETAILS</b>	1507
DRAWN BY				C.S.#: XXX ZZZZ
Final Submittal				JOB NO.: XXXXXX
G.I. Submittal				January 16, 2020
DESCRIPTION	DATE	APPROVED BY	SHEET	OF XXX

CONTROL SECTION NO.: XXX ZZZZ

JOB NO.: XXXXXX



**NOTE:**  
 THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

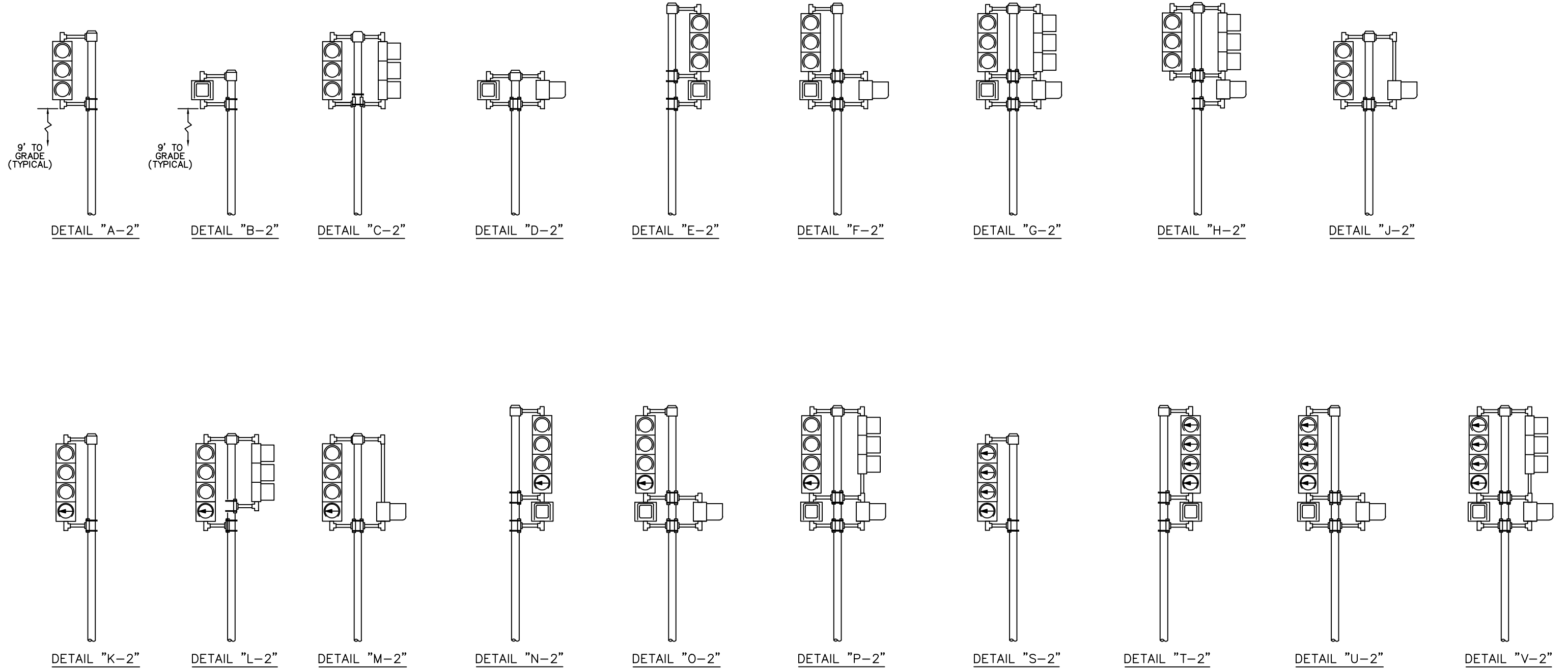
**NOTE:**  
 PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAINTENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

	DESIGNED BY	
	DRAWN BY	
Final Submittal	CHECKED BY	
G.I. Submittal	APPROVED BY	
DESCRIPTION	DATE	

CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC ENGINEERING DIVISION

T.S. BRACKET ARM  
 ASSEMBLY DETAILS

1508  
 C.S.#: XXX ZZZZ  
 JOB NO.: XXXXXX  
 January 16, 2020  
 SHEET OF XXX



**NOTE:**  
 THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

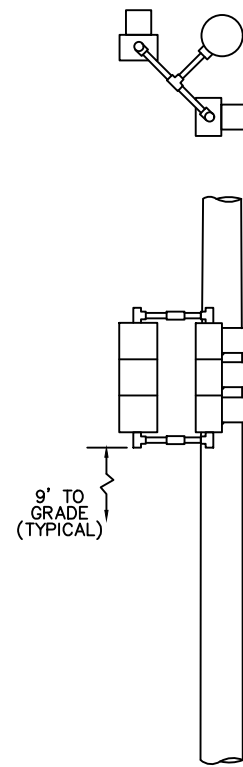
**NOTE:**  
 PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAINTENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

	DESIGNED BY	
	DRAWN BY	
Final Submittal	CHECKED BY	
G.I. Submittal	APPROVED BY	
DESCRIPTION	DATE	

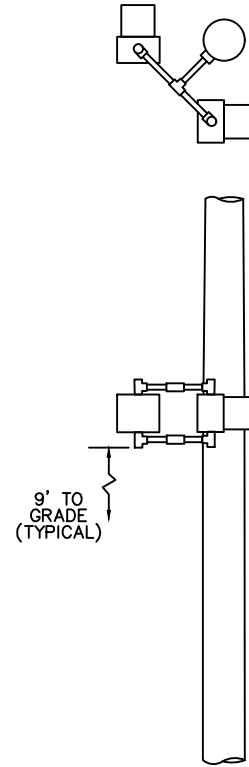
CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 TRAFFIC ENGINEERING DIVISION

T.S. PEDESTAL ASSEMBLY  
 DETAILS

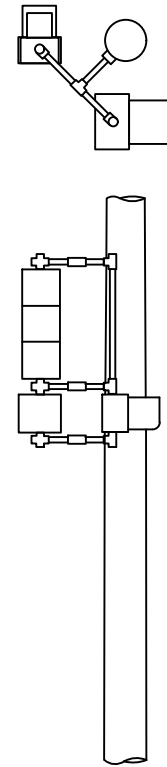
1509  
 C.S.#: XXX ZZZZ  
 JOB NO.: XXXXXXA  
 January 16, 2020  
 SHEET OF XXX



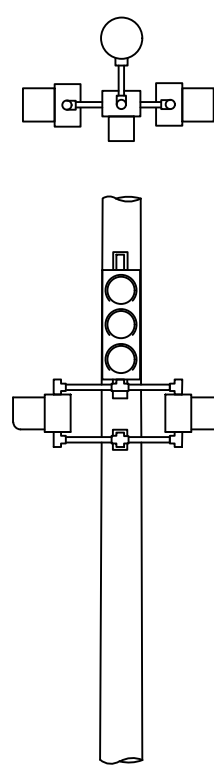
DETAIL "A-3"



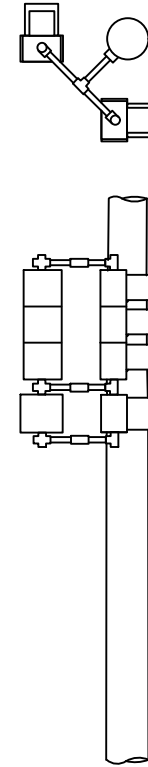
DETAIL "D-3"



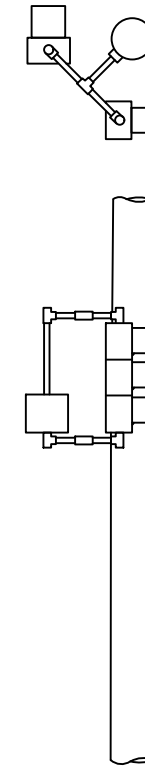
DETAIL "E-3"



DETAIL "F-3"



DETAIL "G-3"



DETAIL "J-3"

**NOTE:**

THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

**NOTE:**

PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAINTENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

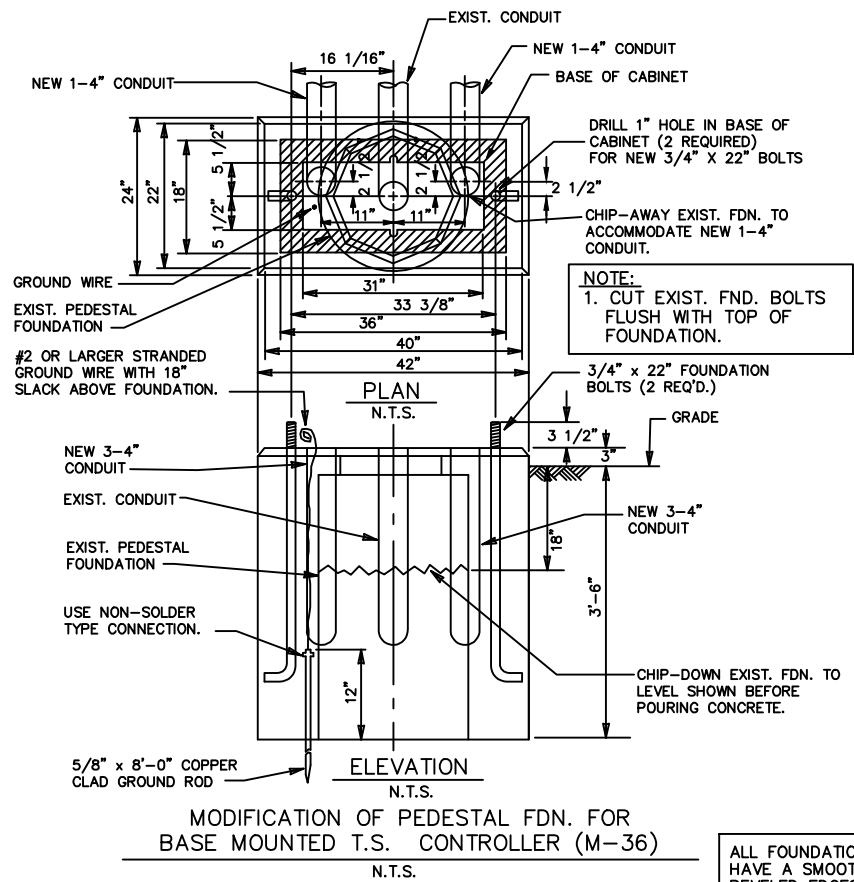
	DESIGNED BY	
	DRAWN BY	
Final Submittal	CHECKED BY	
G.I. Submittal	APPROVED BY	
DESCRIPTION	DATE	

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC ENGINEERING DIVISION

T.S. BRACKET ARM  
ASSEMBLY DETAILS

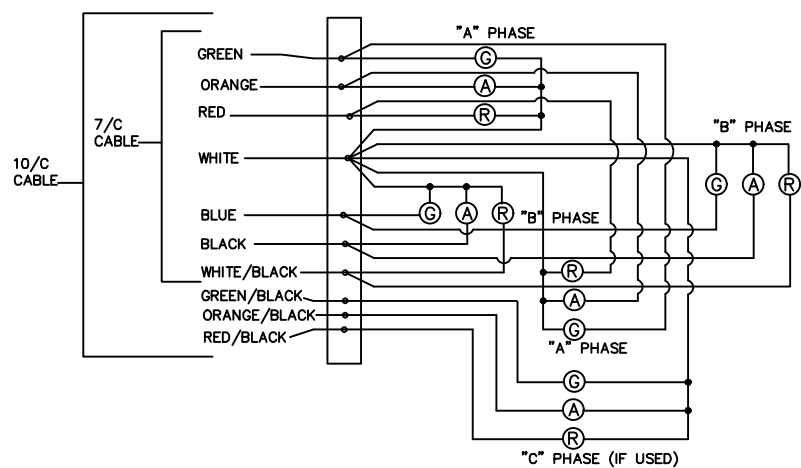
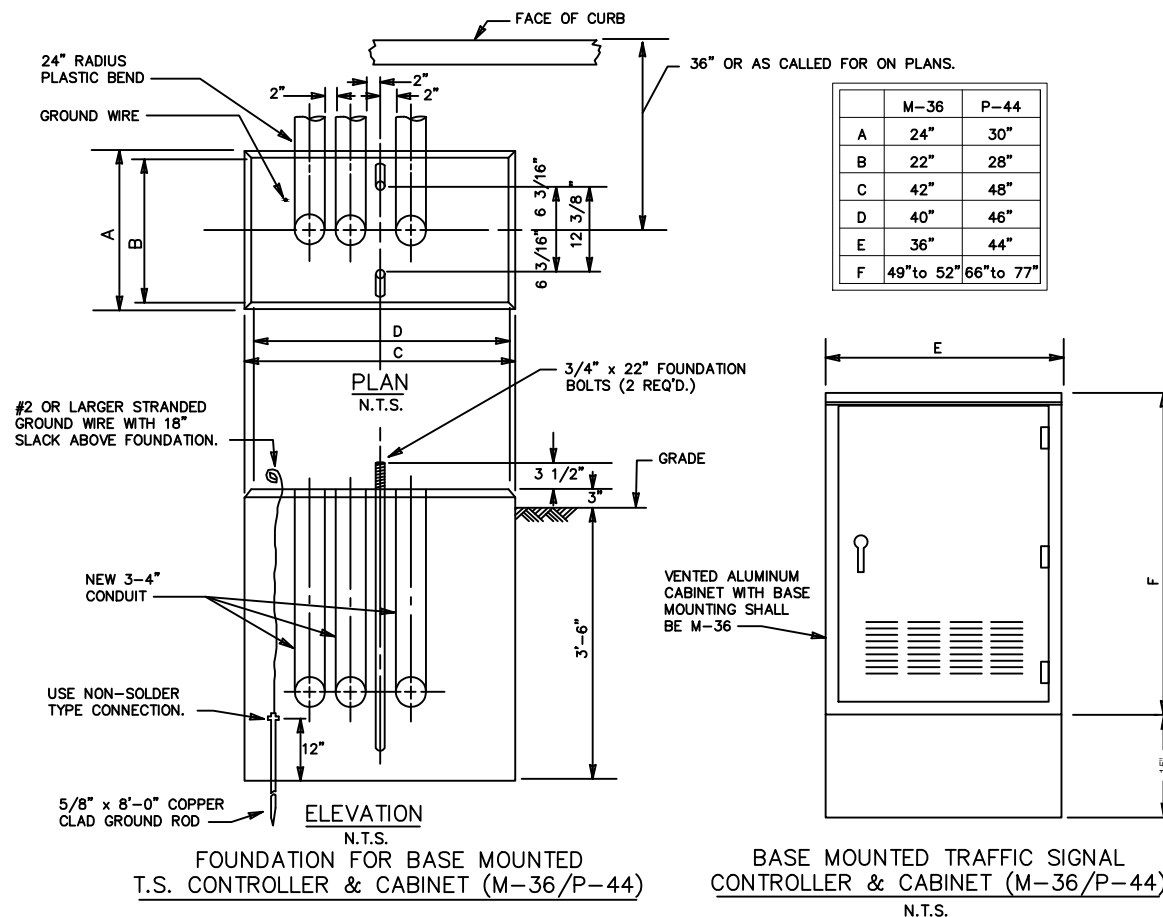
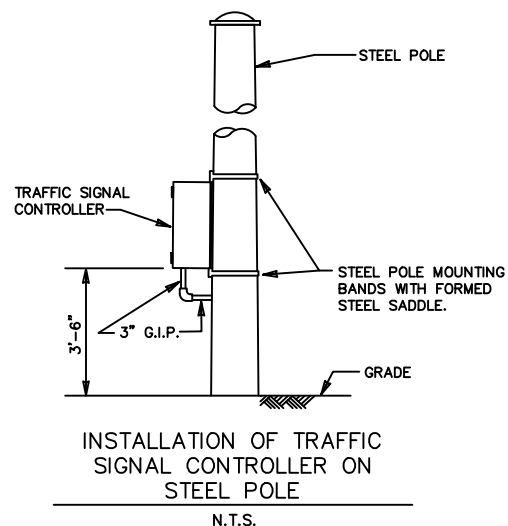
1510  
C.S.#: XXX ZZZZ  
JOB NO.: XXXXXX  
January 16, 2020  
SHEET OF XXX

S:\DPW\Traffic Engineering Services\DPW Detail Sheets (Master Files) 20190115\CAD Drawings\1511 CONTROLLER CABINET DETAILS 40 scale.dwg, Model, 12/22/2020 1:46:23 PM, 1:480



NOTE:  
GROUNDING SYSTEM SHALL MEASURE 10 OHM OR LESS TO GROUND.

ALL FOUNDATION CAPS SHALL HAVE A SMOOTH FINISH WITH BEVELED EDGES & SHALL BE SHAPED TO ALLOW COMPLETE DRAINAGE OF WATER. ANCHOR BOLT PROJECTION ABOVE CAP SHALL BE CLEAN OF ALL CONCRETE & FULLY USABLE THEIR FULL LENGTH.



THE INCOMING CABLE FROM THE CONTROLLER IS TO BE CONNECTED TO THE TERMINAL BLOCK IN ONE FACE OF THE SIGNAL ASSEMBLY. THE OTHER FACES IN THE ASSEMBLY ARE TO BE CONNECTED TO THIS TERMINAL BLOCK BY #14 TW WIRES THROUGH THE ASSEMBLY FRAMEWORK.

**COLOR CODING & CABLE CONNECTIONS FOR TRAFFIC SIGNAL LAMPS**  
N.T.S.

DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	xx-xx-2020

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC ENGINEERING DIVISION

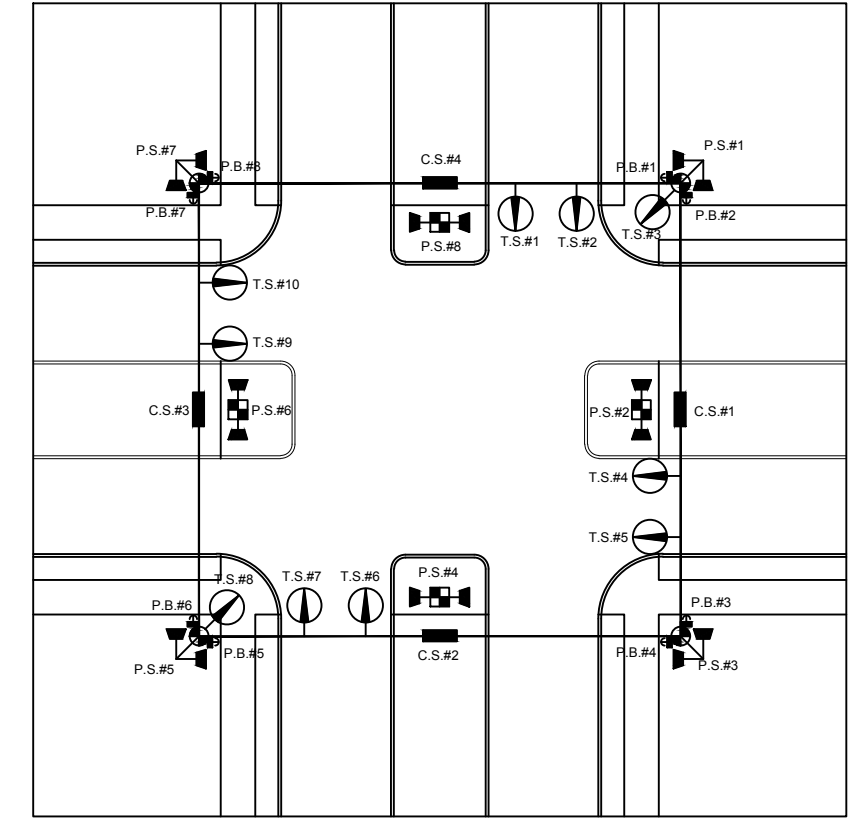
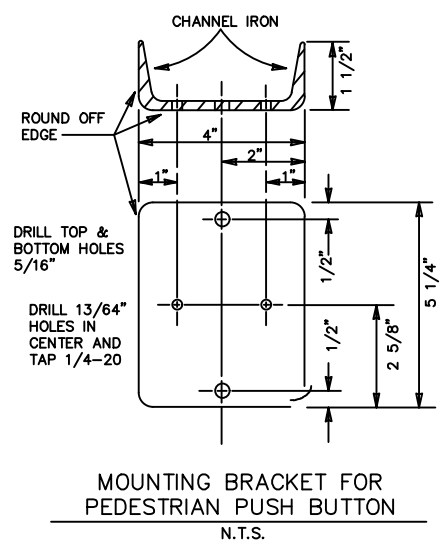
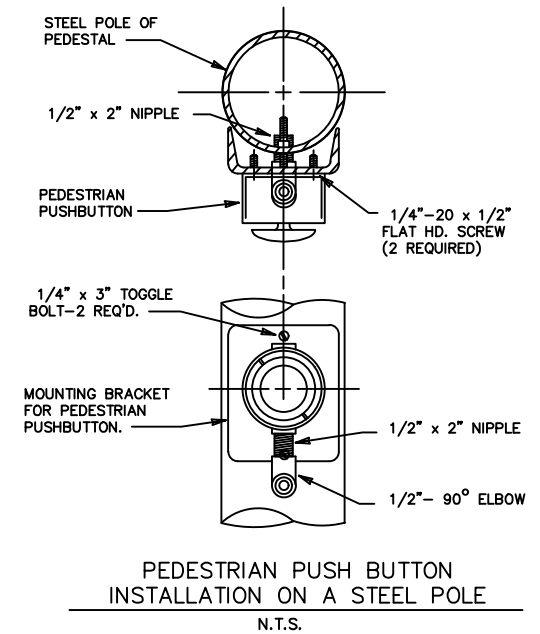
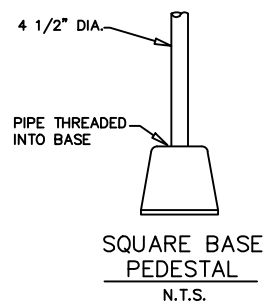
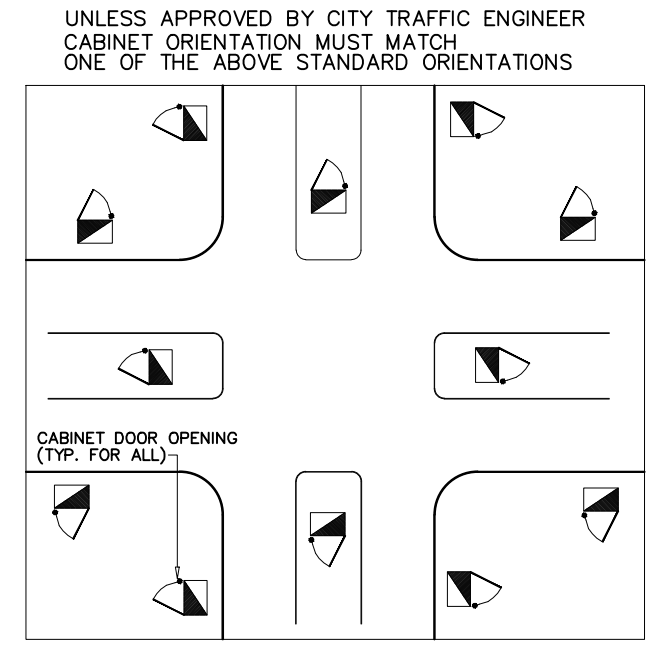
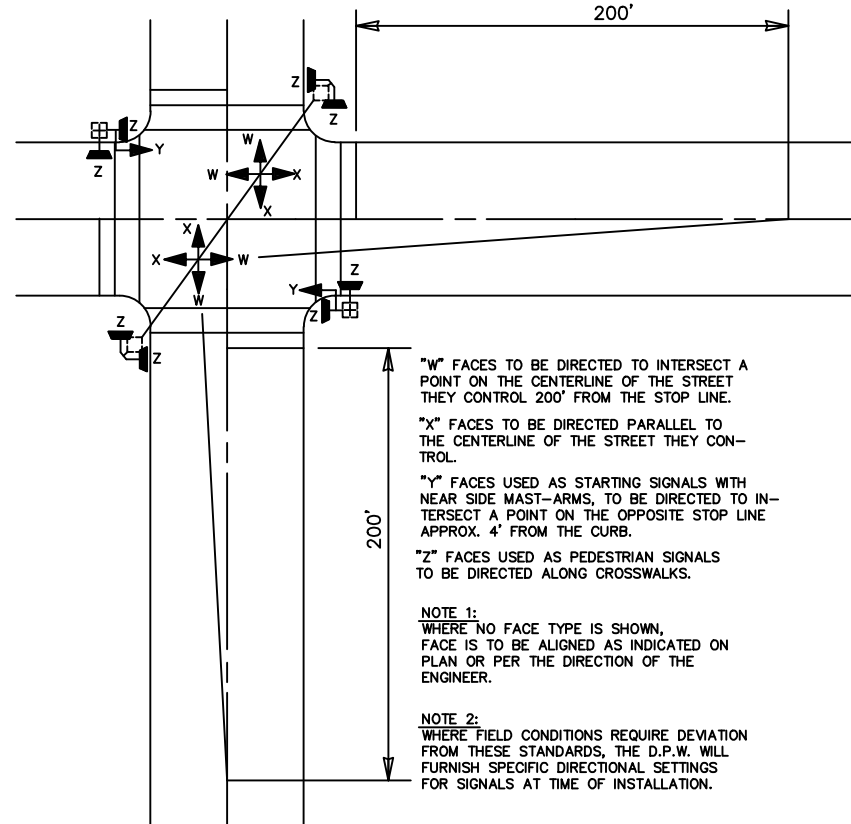
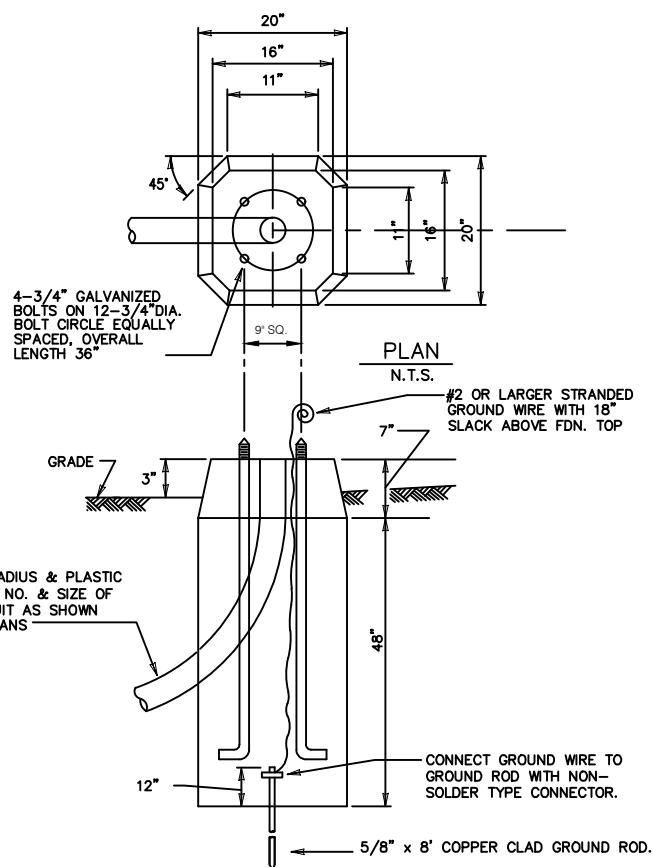
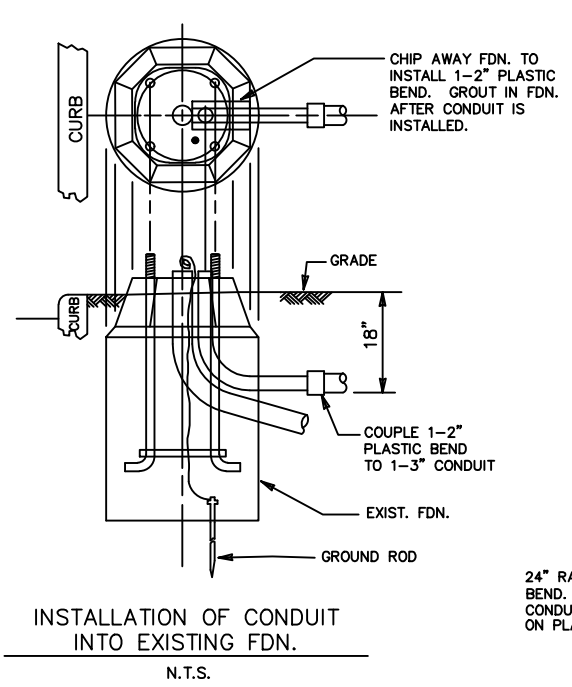
**CONTROLLER CABINET DETAILS**

**1511**  
C.S.#: XXX ZZZZ  
JOB NO.: XXXXXXXA  
January 16, 2020  
SHEET OF XXX

CONTROL SECTION NO.: XXX ZZZZ

JOB NO.: XXXXXXXA

S:\DPW\Traffic Engineering Services\DPW Detail Sheets (Master Files) 20190115\CAD Drawings\1512 MISCELLANEOUS TRAFFIC SIGNAL DETAILS 40 scale.dwg, Model, 12/22/2020 1:47:20 PM, 1:480



DESIGNED BY			<b>MISCELLANEOUS TRAFFIC SIGNAL DETAILS</b>	1512
DRAWN BY				C.S.#: XXX ZZZZ
Final Submittal				JOB NO.: XXXXXX
G.I. Submittal	xx-xx-2020			January 16, 2020
DESCRIPTION	DATE	APPROVED BY		SHEET OF XXX

CONTROL SECTION NO.: XXX ZZZZ

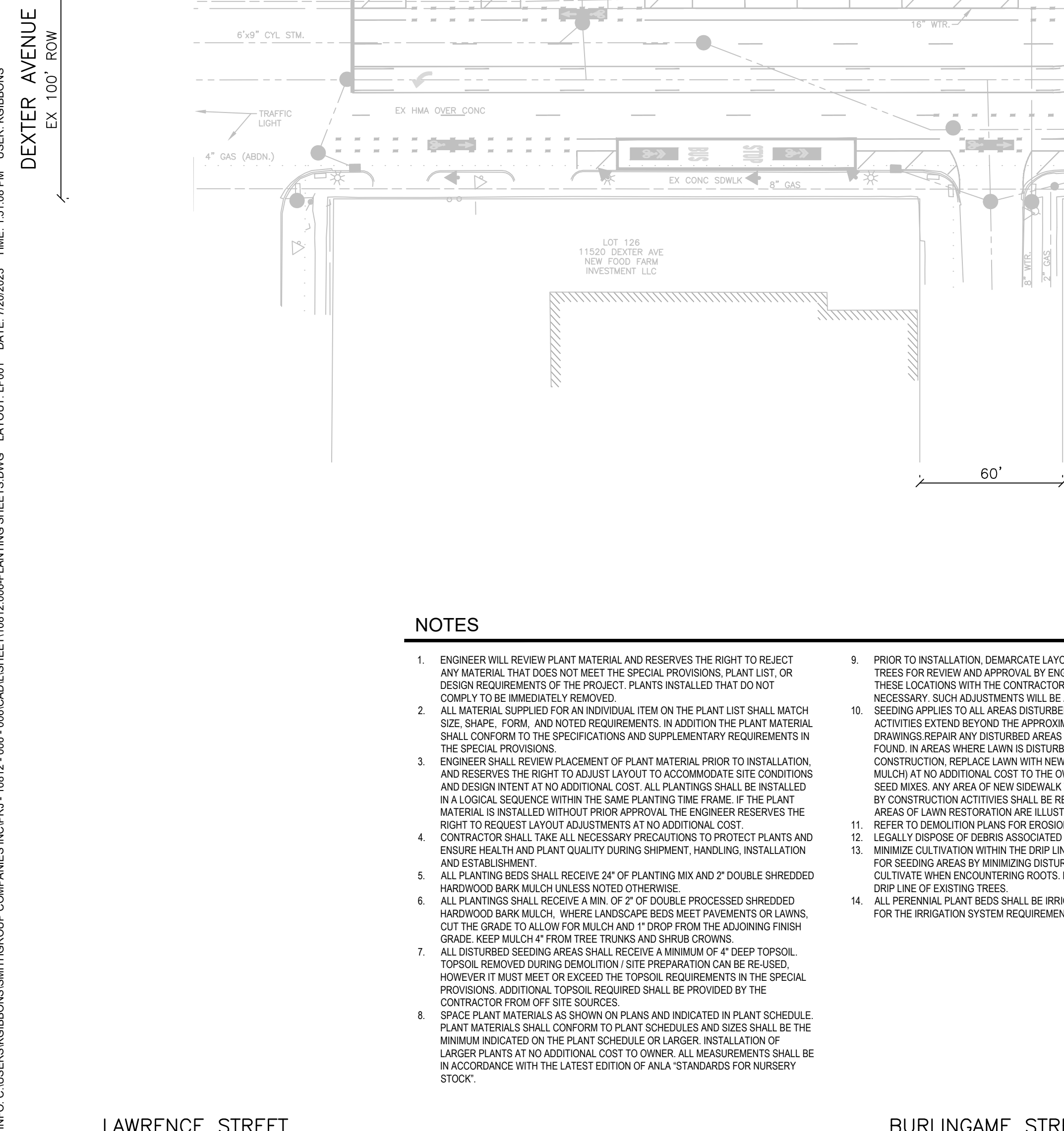
JOB NO.: XXXXXX



Qty.	Abv.	Botanical Name	Common Name	Root	Size	Comments	Spacing
<b>Deciduous Trees</b>							
22	AR	Acer rubrum 'Autumn Flame'	Autumn Flame Red Maple	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown
2	BP	Betula nigra 'Dura Heat'	River Birch Dura Heat	B&B	8' Ht.	Multi-stem, well branched, Min. 3 stems	As shown
7	GT	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown
21	GD	Gymnocladus dioica	Kentucky Coffee Tree	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown
20	PO	Platanus occidentalis	American Sycamore	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown
29	QM	Quercus macrocarpa	Bur oak	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown
13	UP	Ulmus 'Patriot'	Patriot Elm	B&B	4" Cal.	One central leader, well branched, 7' branching ht.	As shown

Qty.	Abv.	Botanical Name	Common Name	Root	No.	Comments	Spacing
<b>Perennial Plant Bed - Irrigated, See Special Provisions</b>							
211	AB	Agastache 'Blue Fortune'	Blue Fortune Hyssop	Cont.	No. 2	Full plant, well rooted	24" o.c.
98	AC	Allium cernuum	Nodding Onion	Cont.	No. 2	Full plant, well rooted	24" o.c.
84	BA	Baptisia australis 'Lunar Eclipse'	Lunar Eclipse False Indigo	Cont.	No. 3	Full plant, well rooted	36" o.c.
82	CA	Ceanothus americanus	New Jersey Tea	Cont.	No. 3	Full plant, well rooted	36" o.c.
41	HB	Hibiscus 'Ballet Slippers'	Rose Mallow	Cont.	No. 3	Full plant, well rooted	36" o.c.
80	HA	Hydrangea arborescens 'Invincible Ruby'	Invincible Ruby Smooth Hydrangea	Cont.	No. 3	Full plant, well rooted	36" o.c.
215	IR	Iris x robusta 'Gerald Darby'	Gerald Darby Iris	Cont.	No. 2	Full plant, well rooted	24" o.c.
361	VC	Viburnum cassinoides 'Lil Ditty'	Lil Ditty Withered Viburnum	Cont.	No. 2	Full plant, well rooted	24" o.c.

Qty.	Abv.	Botanical Name	Common Name	Root	No.	Comments	Spacing
<b>Raingarden Plant Bed</b>							
46	AT	Aesclepias tuberosa	Butterfly Weed	Cont.	No. 2	Full plant, well rooted	24" o.c.
23	AC	Allium cernuum	Nodding Onion	Cont.	No. 2	Full plant, well rooted	24" o.c.
125	CZ	Coreopsis 'Zagreb'	Threadleaf Coreopsis	Cont.	No. 2	Full plant, well rooted	24" o.c.
38	EC	Echinacea pallida	Pale Purple Coneflower	Cont.	No. 2	Full plant, well rooted	24" o.c.
78	GG	Geranium 'Gerwat'	Cranesbill	Cont.	No. 2	Full plant, well rooted	24" o.c.
31	MB	Monarda bradburiana	Bradburn's Eastern Bee Balm	Cont.	No. 2	Full plant, well rooted	24" o.c.
57	RH	Rudbeckia hirta	Black-eyed Susan	Cont.	No. 2	Full plant, well rooted	24" o.c.
11	ST	Silphium terebinthinaceum	Prairie Dock	Cont.	No. 2	Full plant, well rooted	48" o.c.

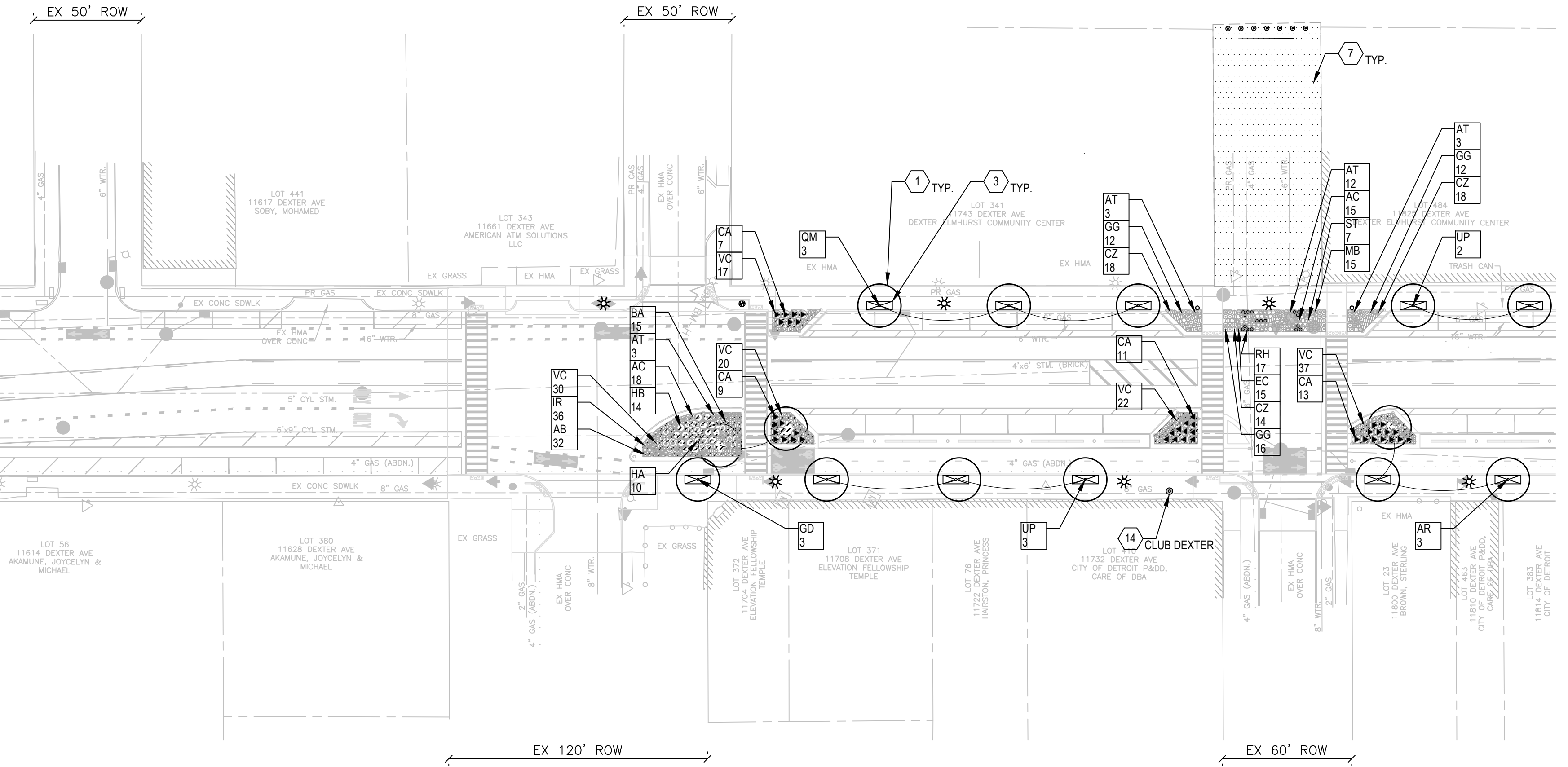


BURLINGAME STREET

WEBB STREET

TUXEDO STREET

PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETSCAPE  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00



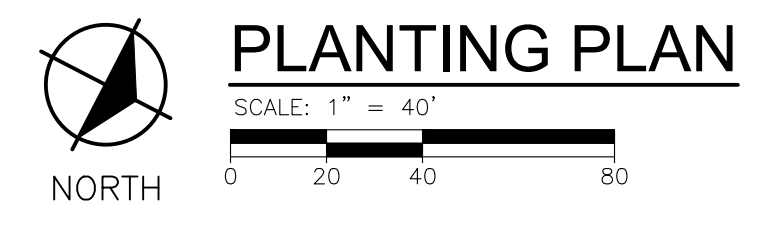
PLOT INFO: C:\USERS\KIBBONS\SMITHGROUP\COMPANIES\KIBBONS\101812\_005-PLANTING SHEETS.DWG LAYOUT: LP01 DATE: 7/20/2023 TIME: 15:10:08 PM USER: KIBBONS

**NOTES**

- ENGINEER WILL REVIEW PLANT MATERIAL AND RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT DOES NOT MEET THE SPECIAL PROVISIONS, PLANT LIST, OR DESIGN REQUIREMENTS OF THE PROJECT. PLANTS INSTALLED THAT DO NOT COMPLY TO BE IMMEDIATELY REMOVED.
- ALL MATERIAL SUPPLIED FOR AN INDIVIDUAL ITEM ON THE PLANT LIST SHALL MATCH SIZE, SHAPE, FORM, AND NOTED REQUIREMENTS. IN ADDITION THE PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS IN THE SPECIAL PROVISIONS.
- ENGINEER SHALL REVIEW PLACEMENT OF PLANT MATERIAL PRIOR TO INSTALLATION AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT AT NO ADDITIONAL COST. ALL PLANTINGS SHALL BE INSTALLED IN A LOGICAL SEQUENCE WITHIN THE SAME PLANTING TIME FRAME. IF THE PLANT MATERIAL IS INSTALLED WITHOUT PRIOR APPROVAL THE ENGINEER RESERVES THE RIGHT TO REQUEST LAYOUT ADJUSTMENTS AT NO ADDITIONAL COST.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PLANTS AND ENSURE HEALTH AND PLANT QUALITY DURING SHIPMENT, HANDLING, INSTALLATION AND ESTABLISHMENT.
- ALL PLANTING BEDS SHALL RECEIVE 24" OF PLANTING MIX AND 2" DOUBLE SHREDDED HARDWOOD BARK MULCH (UNLESS NOTED OTHERWISE).
- ALL PLANTINGS SHALL RECEIVE A MIN. OF 2" OF DOUBLE PROCESSED SHREDDED HARDWOOD BARK MULCH. WHERE LANDSCAPE BEDS MEET PAVEMENTS OR LAWNS, CUT THE GRADE TO ALLOW FOR MULCH AND 1" DROP FROM THE ADJOINING FINISH GRADE. KEEP MULCH 4" FROM TREE TRUNKS AND SHRUB CROWNS.
- ALL DISTURBED SEEDING AREAS SHALL RECEIVE A MINIMUM OF 4" DEEP TOPSOIL. TOPSOIL REMOVED DURING DEMOLITION/ SITE PREPARATION CAN BE RE-USED. HOWEVER IT MUST MEET OR EXCEED THE TOPSOIL REQUIREMENTS IN THE SPECIAL PROVISIONS. ADDITIONAL TOPSOIL REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR FROM OFF SITE SOURCES.
- SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA STANDARDS FOR NURSERY STOCK.
- PRIOR TO INSTALLATION, DEMARCATÉ LAYOUT OF ALL SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY ENGINEER. THE ENGINEER WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER. SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW SEED INCLUDING TOPSOIL, SEED AND MULCH AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR SEED MIXES. ANY AREA OF NEW SIDEWALK WHERE ADJACENT LAWN IS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESEDED AND RESTORED - NOT ALL AREAS OF LAWN RESTORATION ARE ILLUSTRATED ON THE PLANS.
- REFER TO DEMOLITION PLANS FOR EROSION CONTROL MEASURES.
- LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH LANDSCAPE PLANS OFF-SITE.
- MINIMIZE CULTIVATION WITHIN THE DRIP LINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING AREAS BY MINIMIZING DISTURBANCE TO 4 INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIP LINE OF EXISTING TREES.
- ALL PERENNIAL PLANT BEDS SHALL BE IRRIGATED. REFER TO SPECIAL PROVISION FOR THE IRRIGATION SYSTEM REQUIREMENTS.

**LEGEND**

- 1 DECIDUOUS TREE
- 2 DECIDUOUS SHRUB
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 SEEDING, MIXTURE TUF - SEE NOTE 10
- 8 PERENNIAL PLANT BED
- 9 RAINGARDEN PLANT BED
- 10 BOLLARD, REMOVABLE
- 11 GATEWAY STRUCTURE
- 12 BUS BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 13 VERTICAL IDENTITY SIGN
- 14 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE COST TO THE OWNER. LOCATION
- 15 INDIVIDUAL RAINGARDEN PERENNIALS - SEE PLANT LIST FOR SPECIES AND QUANTITIES
- 16 INDIVIDUAL ISLAND PLANTINGS - SEE PLANT LIST FOR SPECIES AND QUANTITIES



**PLANTING PLAN**

SCALE: 1" = 40'



**SMITHGROUP**

500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



**City of Detroit**

**Dexter Ave Streetscape**

**REVISIONS**

DATE	DESCRIPTION	BY	CHKD
07/21/2023	100% CD		
06/09/2023	90% CD		
04/28/2023	60% CD		
03/10/2023	30% CD		

Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

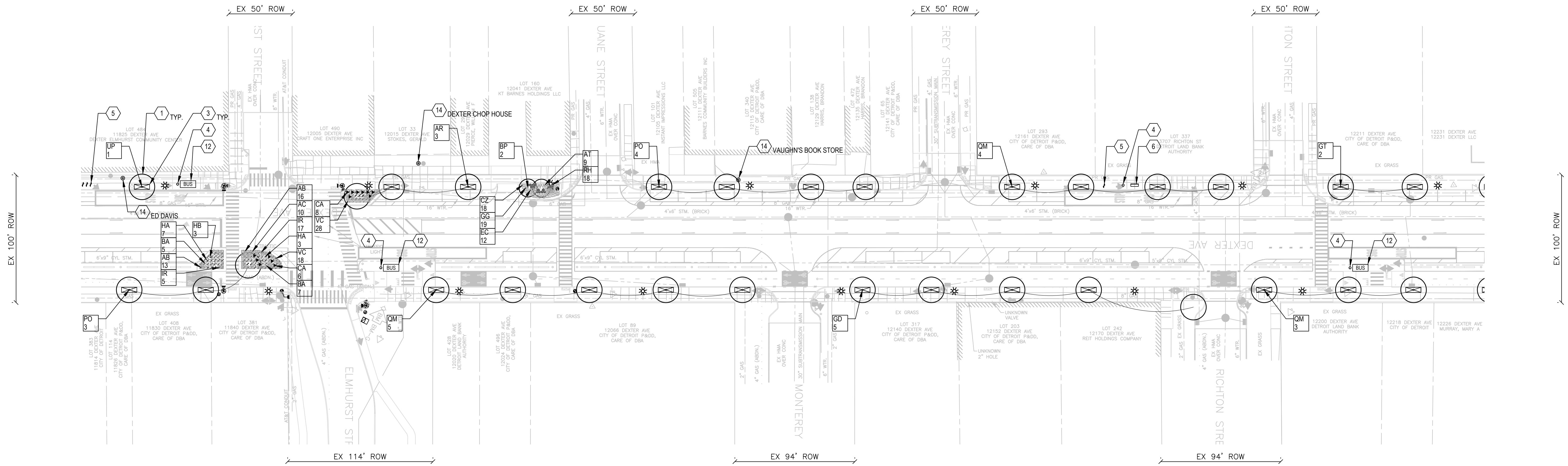
SHEET NO.  
**113**

**LP001**



PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCPRJ - 19119 - 006\CAD\LSH\19119\_006-PLANTING SHEETS.DWG LAYOUT: LP02 DATE: 7/20/2023 TIME: 1:51:22 PM USER: KGIBBONS

DEXTER AVENUE



NOTES

- 1. SEE SHEET 113 - LP001 FOR PLANTING PLAN NOTES.

LEGEND

- 1 DECIDUOUS TREE
- 2 DECIDUOUS SHRUB
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 SEEDING, MIXTURE TUF - SEE NOTE 10
- 8 PERENNIAL PLANT BED
- 9 RAINGARDEN PLANT BED
- 10 BOLLARD, REMOVABLE
- 11 GATEWAY STRUCTURE
- 12 BUS BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 13 VERTICAL IDENTITY SIGN
- 14 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 15 INDIVIDUAL RAINGARDEN PERENNIALS - SEE PLANT LIST FOR SPECIES AND QUANTITIES
- 16 INDIVIDUAL ISLAND PLANTINGS - SEE PLANT LIST FOR SPECIES AND QUANTITIES



PLANTING PLAN

SCALE: 1" = 40'  
0 20 40 80

REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By KG  
Designer KG  
Reviewer BC  
Manager KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

191190

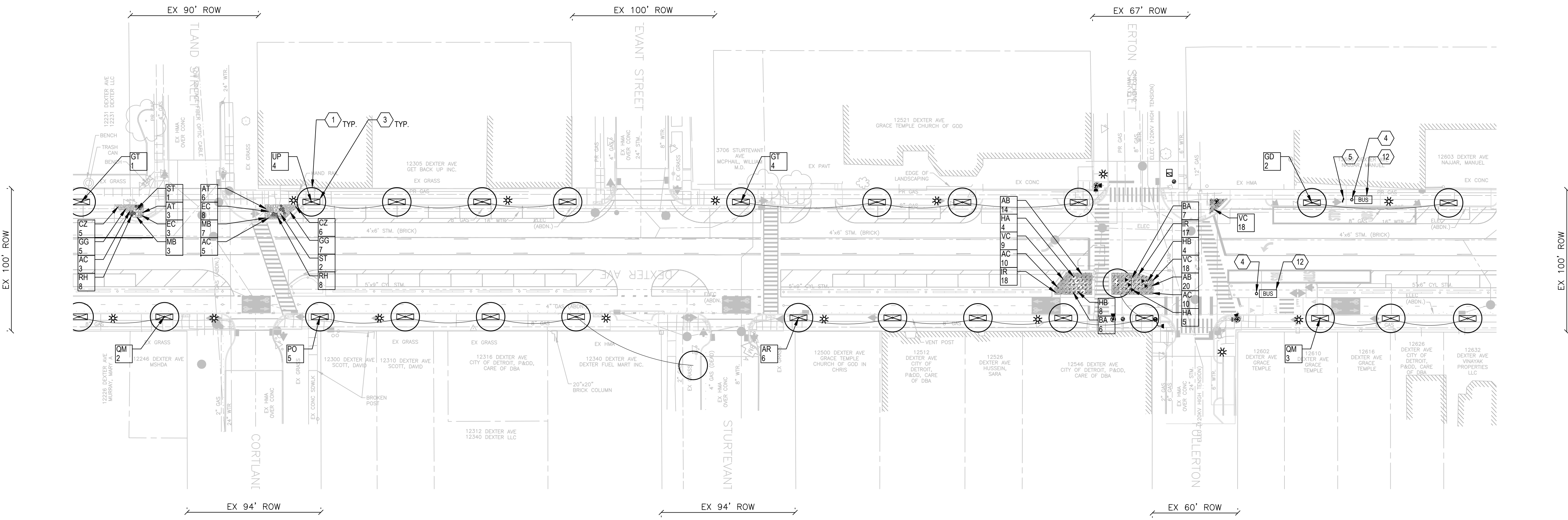
SHEET NO.

114

LP002



DEXTER AVENUE



**NOTES**

- 1. SEE SHEET 113 - LP001 FOR PLANTING PLAN NOTES.

**LEGEND**

- 1 DECIDUOUS TREE
- 2 DECIDUOUS SHRUB
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 SEEDING, MIXTURE TUF - SEE NOTE 10
- 8 PERENNIAL PLANT BED
- 9 RAINGARDEN PLANT BED
- 10 BOLLARD, REMOVABLE
- 11 GATEWAY STRUCTURE
- 12 BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 13 VERTICAL IDENTITY SIGN
- 14 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 15 INDIVIDUAL RAINGARDEN PERENNIALS - SEE PLANT LIST FOR SPECIES AND QUANTITIES
- 16 INDIVIDUAL ISLAND PLANTINGS - SEE PLANT LIST FOR SPECIES AND QUANTITIES

**PLANTING PLAN**  
SCALE: 1" = 40'  
0 20 40 80

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO. 191190

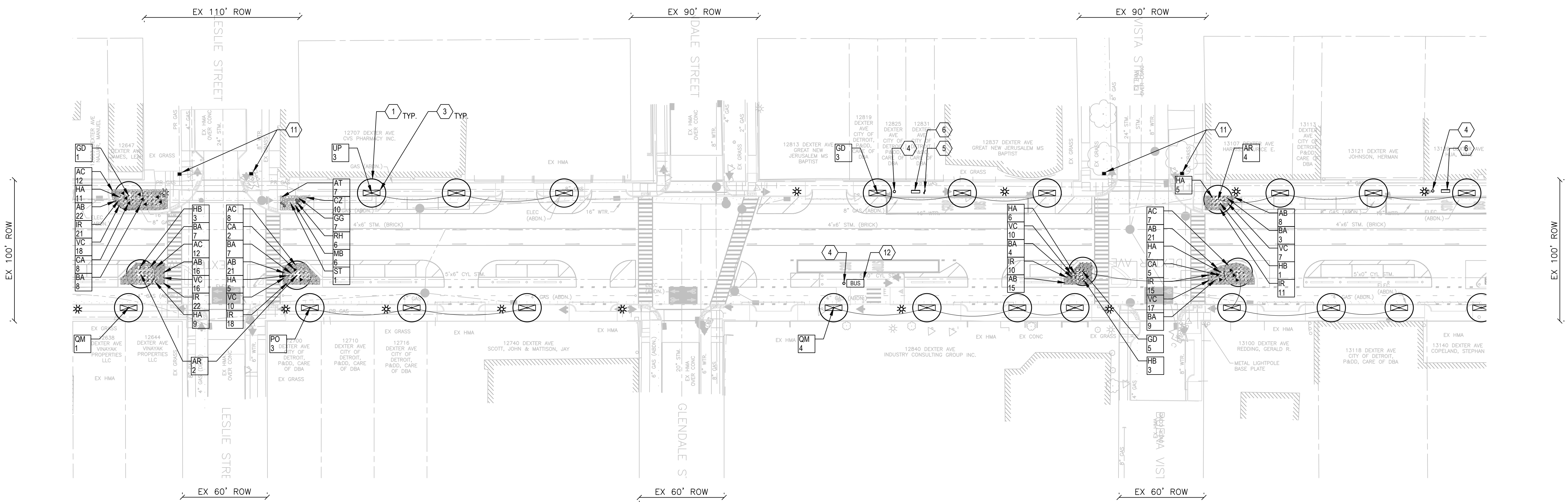
SHEET NO. 115

LP003

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCPRU - 10812 - 006 - 006\CAD\USHEE101812-006-PLANTING SHEETS.DWG LAYOUT: LP003 DATE: 7/20/2023 TIME: 1:51:34 PM USER: KGIBBONS



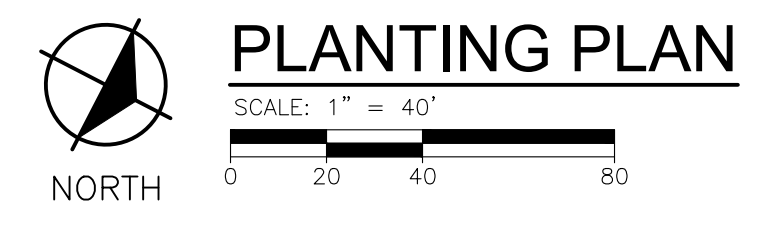
City of Detroit  
Dexter Ave Streetscape



NOTES  
1. SEE SHEET 113 - LP001 FOR PLANTING PLAN NOTES.

LEGEND

1	DECIDUOUS TREE	12	BUS	BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
2	DECIDUOUS SHRUB	13	VERTICAL IDENTITY SIGN	
3	TREE GRATE AND FRAME, 4 FOOT X 12 FOOT	14	HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION	
4	TRASH RECEPTACLE	15	INDIVIDUAL RAINGARDEN PERENNIALS - SEE PLANT LIST FOR SPECIES AND QUANTITIES	
5	BIKE RACK	16	INDIVIDUAL ISLAND PLANTINGS - SEE PLANT LIST FOR SPECIES AND QUANTITIES	
6	BENCH, METAL			
7	SEEDING, MIXTURE TUF - SEE NOTE 10			
8	PERENNIAL PLANT BED			
9	RAINGARDEN PLANT BED			
10	BOLLARD, REMOVABLE			
11	GATEWAY STRUCTURE			



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190  
SHEET NO.  
116  
LP004

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCIPR - 10812 - 006 - 006\CAD\USHEET\191190-006-PLANTING SHEETS.DWG LAYOUT: LP004 DATE: 7/20/2023 TIME: 1:51:45 PM USER: KGIBBONS

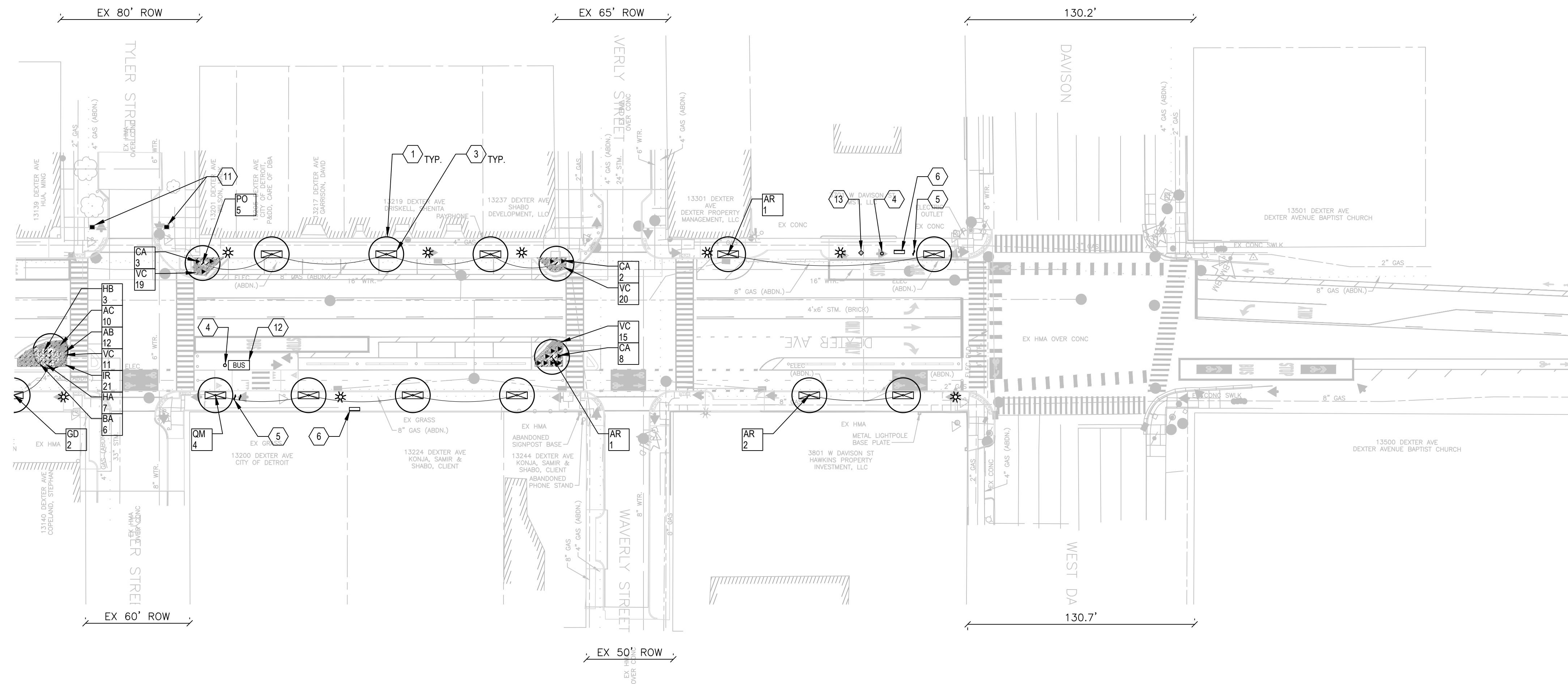
TYLER STREET

WAVERLY STREET

W DAVISON STREET



DEXTER AVENUE



**NOTES**

- 1. SEE SHEET 113 - LP001 FOR PLANTING PLAN NOTES.

**LEGEND**

- 1 DECIDUOUS TREE
- 2 DECIDUOUS SHRUB
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 SEEDING, MIXTURE TUF - SEE NOTE 10
- 8 PERENNIAL PLANT BED
- 9 RAINGARDEN PLANT BED
- 10 BOLLARD, REMOVABLE
- 11 GATEWAY STRUCTURE
- 12 BUS BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 13 VERTICAL IDENTITY SIGN
- 14 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 15 INDIVIDUAL RAINGARDEN PERENNIALS - SEE PLANT LIST FOR SPECIES AND QUANTITIES
- 16 INDIVIDUAL ISLAND PLANTINGS - SEE PLANT LIST FOR SPECIES AND QUANTITIES



**PLANTING PLAN**

SCALE: 1" = 40'  
0 20 40 80

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
 Designer: KG  
 Reviewer: BC  
 Manager: KKS

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
117  
LP005

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCGRP - 191190 - 005\005\005\191190\191190-005-PLANTING SHEETS.DWG LAYOUT: LP005 DATE: 7/20/2023 TIME: 1:51:58 PM USER: KGIBBONS

TYLER STREET

WAVERLY STREET

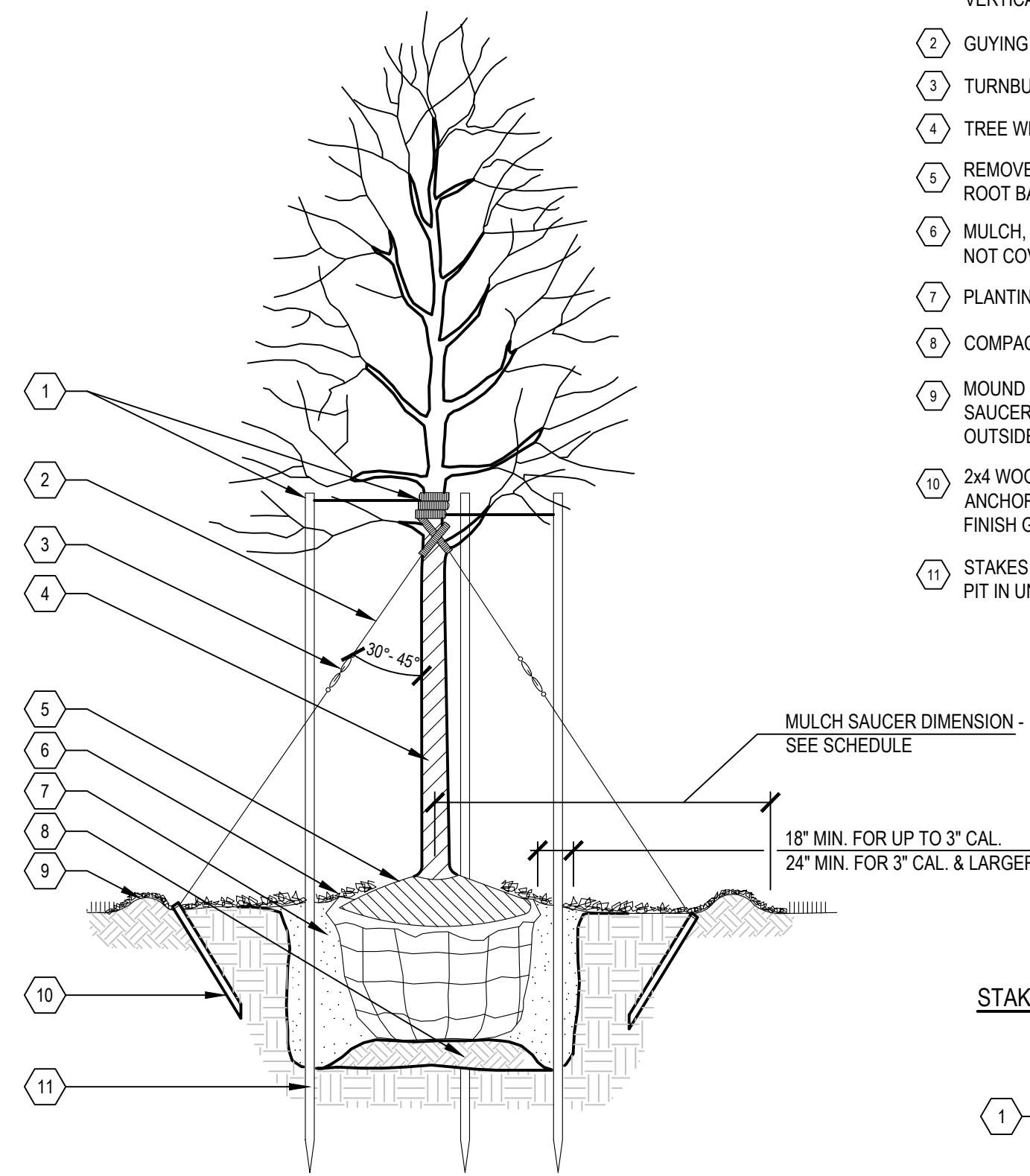
W DAVISON STREET

**SCHEDULES**

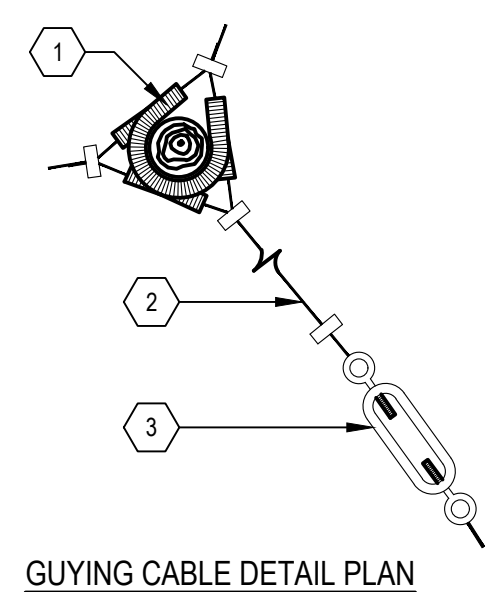
SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
2" CAL. & SMALLER	• DOUBLE STAKE	• 4' DIA.
BETWEEN 2.5" & 3.5" CAL.	• TRIPLE STAKE	• 5' DIA.
4" CAL. - 6" CAL.	• TRIPLE GUY	• MIN. 8' DIA. - EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

**NOTES:**  
 NEVER CUT CENTRAL LEADERS. PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

- 1 TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES. SET STAKES VERTICAL AND AT SAME HEIGHT
- 2 GUYING CABLE 3 GUYS PER TREE
- 3 TURNBUCKLE
- 4 TREE WRAP
- 5 REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL
- 6 MULCH, HARDWOOD BARK, 2 INCH - DO NOT COVER ROOT FLARE
- 7 PLANTING MIXTURE, 24 INCH DEPTH
- 8 COMPACTED PLANTING MIXTURE
- 9 MOUND PLANTING MIXTURE TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
- 10 2x4 WOOD OR #3/8" METAL FENCE POST ANCHOR STAKE TO BE DRIVEN BELOW FINISH GRADE. MIN. LENGTH TO BE 24"
- 11 STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND

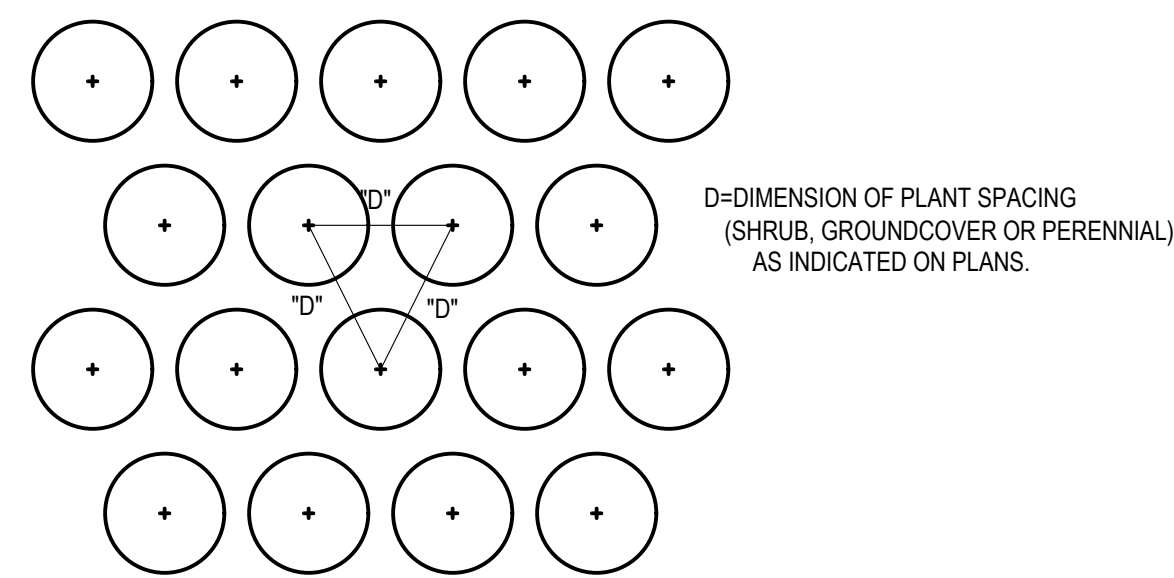


**STAKING/GUYING LOCATION PLAN**



**STAKING DETAIL**

- NOTES:**  
 ORIENT STAKING/GUYING TO PREVAILING WINDS AND SLOPES, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO SLOPE.  
 USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS WITHIN EACH GROUPING OR AREA.
- 1 1/2" DIA. RUBBER HOSE CHAFING GUARD 2-PLY, COLOR BLACK
  - 2 GUYING CABLE SECURED W/CLAMPS
  - 3 TURNBUCKLE WITH 6" OPENING
  - 4 1/2" DIA. RUBBER HOSE CHAFING GUARD 2-PLY, COLOR BLACK
  - 5 DOUBLE STRAND #14 GAUGE GALV. WIRE, NEATLY TWISTED
  - 6 NOTCH POSTS TO SET STAKE WIRE
  - 7 STAKES AS SPECIFIED

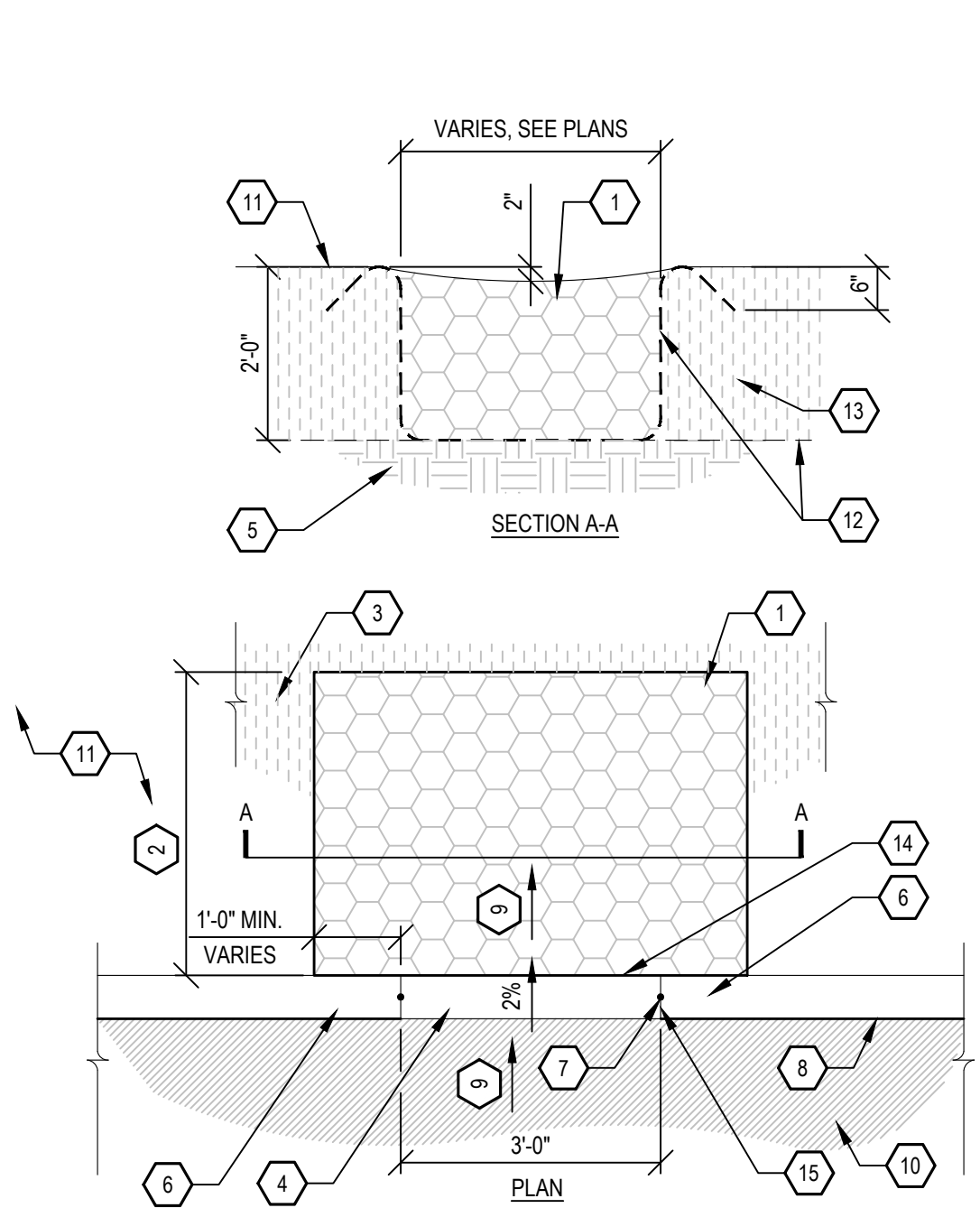


**1 TREE PLANTING**

SCALE: 1" = 1'

**4 TYPICAL PLANT SPACING**

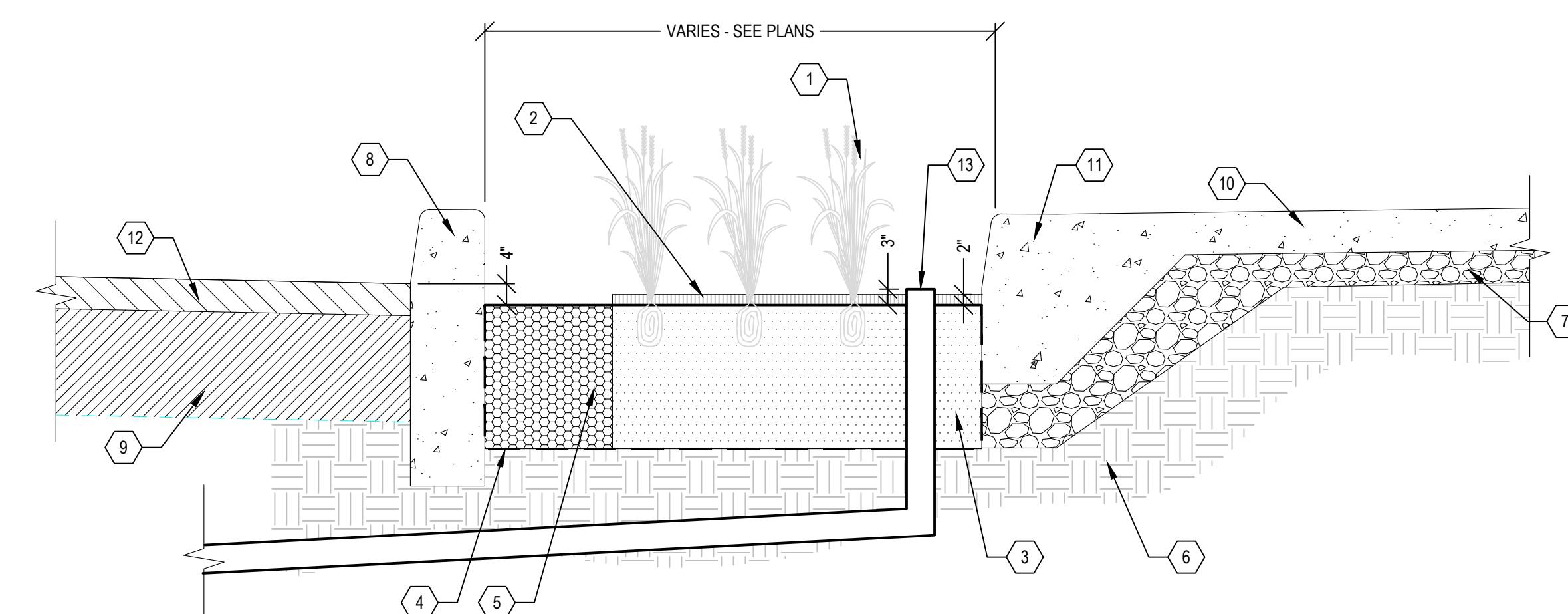
SCALE: NTS



- 1 AGGREGATE BASE, DRAINAGE COURSE, 24" DEPTH (SET RIPRAP IN BOTTOM AND SIDES OF OVERFLOW SWALE AND COMPACT IN PLACE TO ENSURE RIPRAP WILL REMAIN IN PLACE DURING RAIN EVENTS)
- 2 EXTEND UNDERLYING AGGREGATE BASE FROM SPILLWAY AT CURB TO EDGE OF RAINGARDEN AREA AS SHOWN IN PLANS
- 3 RAINGARDEN AREA
- 4 ZERO HEIGHT CURB
- 5 EXISTING SUBGRADE
- 6 FULL HEIGHT CURB
- 7 SEALED EXPANSION JOINT
- 8 CURB, WIDTH VARIES. SEE PLANS
- 9 SLOPE VARIES - REFER TO GRADING PLAN
- 10 ADJACENT PAVEMENT, SEE PLANS
- 11 PLANTINGS, REFER TO PLANTING PLAN
- 12 GEOTEXTILE FABRIC
- 13 PLANTING MIXTURE, 24" DEPTH WITH MULCH
- 14 PROVIDE 3" MIN. DROP BETWEEN TOP OF CONCRETE AND TOP OF RIP RAP, SEE GRADING PLANS AND RAINGARDEN PROFILE DETAIL
- 15 PROVIDE 2" RADIUS TO THE TOP INSIDE EDGE OF SPILLWAY CURB NOSING FOR A SAFE AND CONTINUOUS FINISH WITH THE TOP OF CURB FACING THE STREET

**5 STONE SPILLWAY**

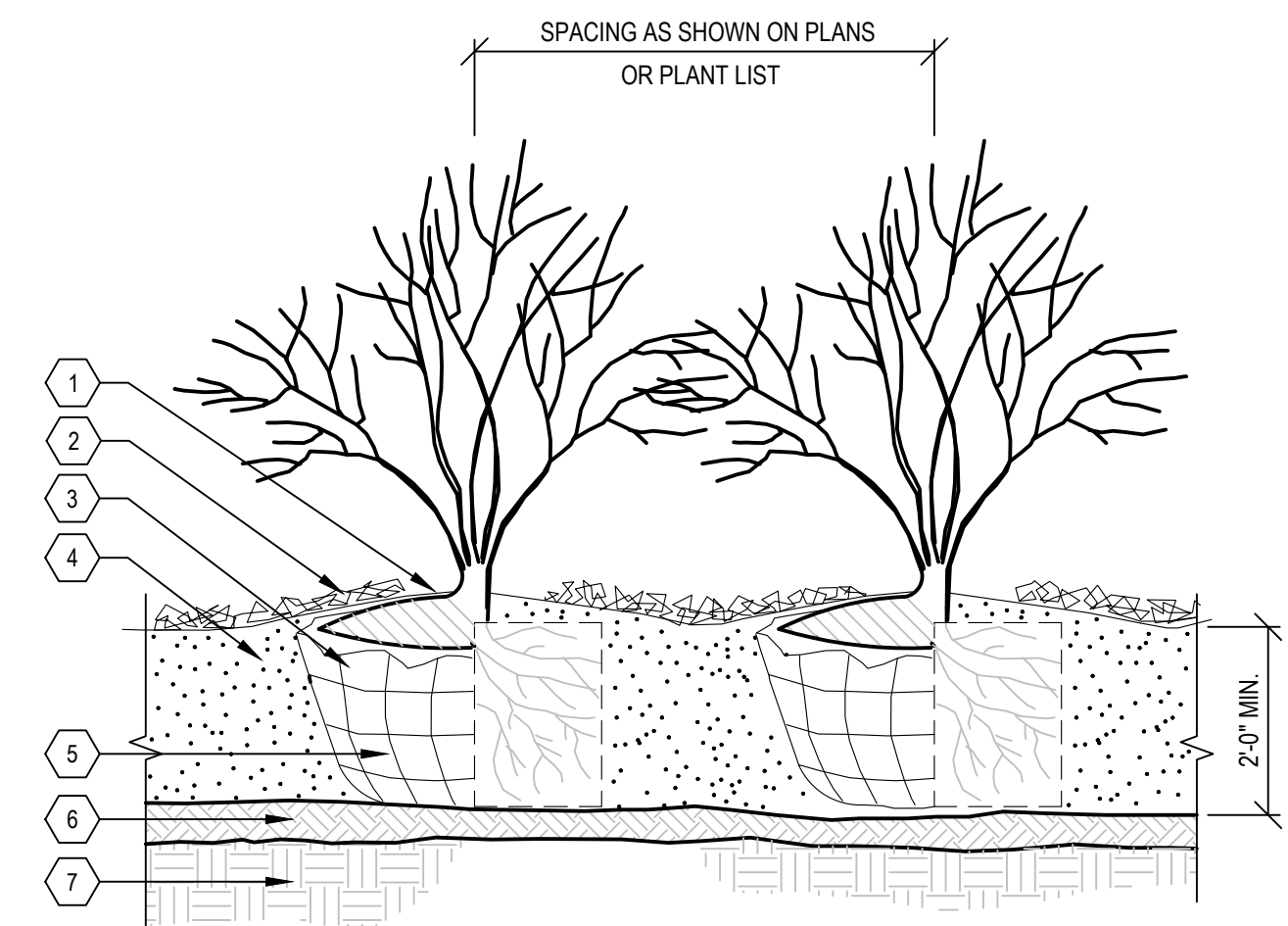
SCALE: 1/2" = 1'



- 1 PLANTINGS, SEE PLANTING PLAN
- 2 MULCH, HARDWOOD BARK, 2" DEPTH
- 3 PLANTING MIXTURE, 24 INCH DEPTH
- 4 GEOTEXTILE SEPARATOR
- 5 AGGREGATE BASE, DRAINAGE COURSE, 24" DEPTH (WASHED MDOOT 6AA)
- 6 SUBGRADE
- 7 AGGREGATE BASE, 6 INCH
- 8 CONCRETE CURB, DETAIL CD, MODIFIED
- 9 ROAD SUBBASE
- 10 SIDEWALK, CONC, 6 INCH - SEE PLANS
- 11 THICKENED 12" CONCRETE EDGE
- 12 ROAD PAVEMENT
- 13 OVERFLOW INLET, PLANTER, TOP OF INLET 1" BELOW LOWEST ELEVATION OF ADJACENT ROADWAY / CURB CUT, DRAINS TO THE CITY'S SEWER SYSTEM, SEE DETAIL GRADE PLANS FOR LOCATIONS

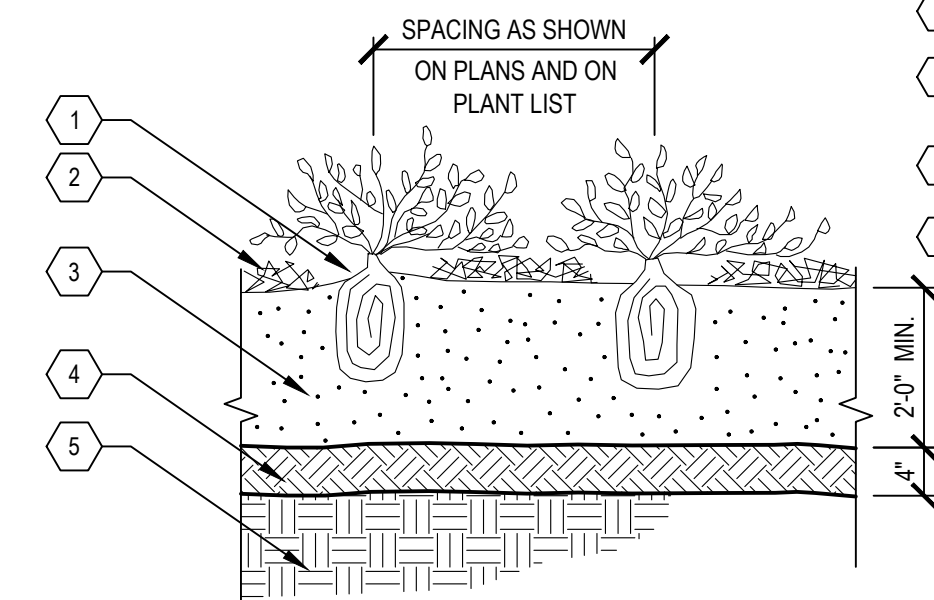
**6 RAINGARDEN PROFILE**

SCALE: 1/2" = 1'



**2 SHRUB PLANTING**

SCALE: 1" = 1'



**3 PERENNIAL PLANTING**

SCALE: 1" = 1'

**NOTES:**  
 • REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL, OR, WITH CONTAINER PLANTS, REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

• DO NOT PRUNE SHRUBS EXCEPT TO REMOVE DEAD OR BROKEN BRANCHES

- 1 SET ROOT FLARE CROWN OF BALL AT FINISHED GRADE
- 2 MULCH, HARDWOOD BARK, 2 INCH. DO NOT COVER ROOT FLARE.
- 3 BALLED AND BURLAPPED SHRUB
- 4 PLANTING MIXTURE, 24 INCH DEPTH
- 5 BARE ROOT OR CONTAINER SHRUB
- 6 SCARIFY TO 4" DEPTH AND RECOMPACT.
- 7 SUBGRADE - SLOPE TO FOLLOW FINISH GRADES TO MAINTAIN UNIFORM PLANT BED MIX DEPTH

**NOTE:**  
 CONTAINER PLANTS: REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

- 1 SET ROOT FLARE (COLLAR) AT FINISHED GRADE
- 2 MULCH, HARDWOOD BARK, 2 INCH - DO NOT COVER ROOT FLARE
- 3 PLANTING MIXTURE, 24 INCH DEPTH
- 4 SCARIFY TO 4" DEPTH AND RECOMPACT
- 5 SUBGRADE



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

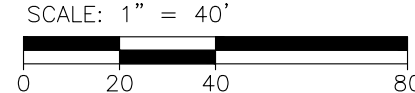
Drawn By	KG
Designer	KG
Reviewer	BC
Manager	KK3

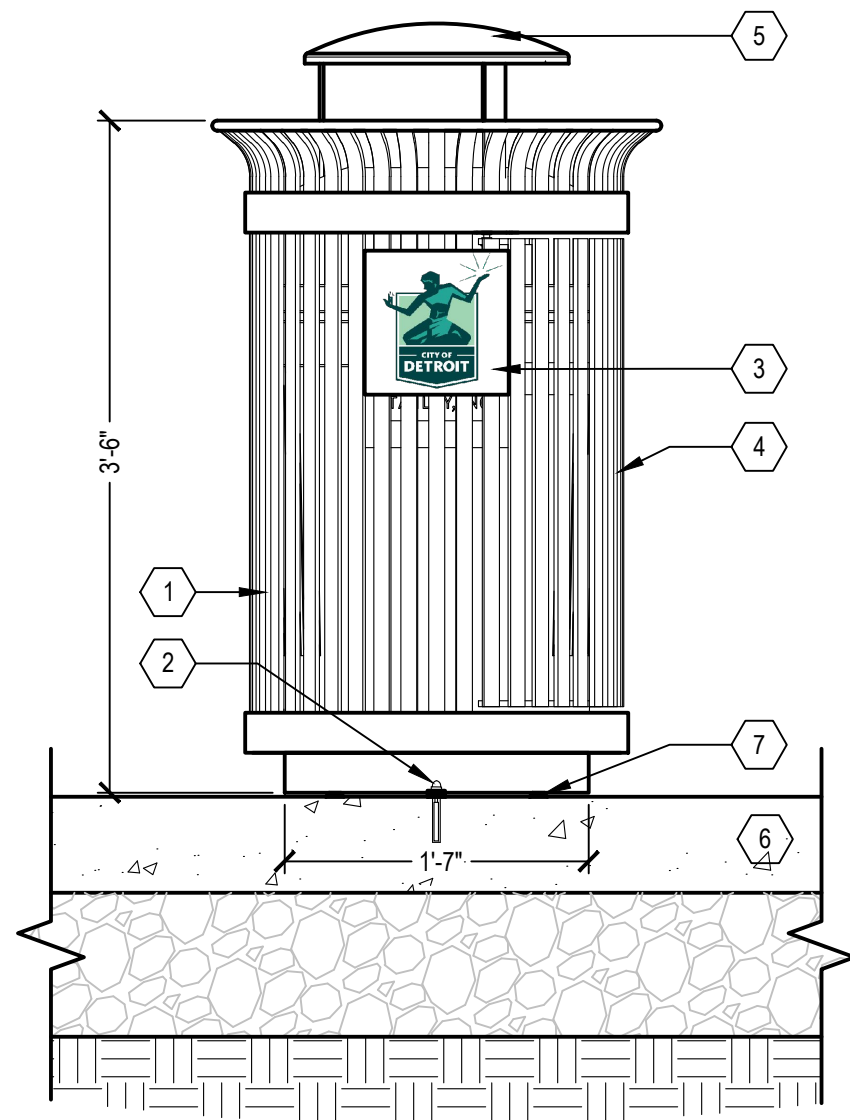
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.	191190
SHEET NO.	118
	LP006

PLOT INFO: C:\USERS\KIBBONS\SMITHGROUP\COMPANIES\MCIPR\10817-006-006\CD\LSH\191190\006-PLANTING DETAILS.DWG LAYOUT: LP006 DATE: 7/20/2023 TIME: 1:52:29 PM USER: KIBBONS

**PLANTING DETAILS**



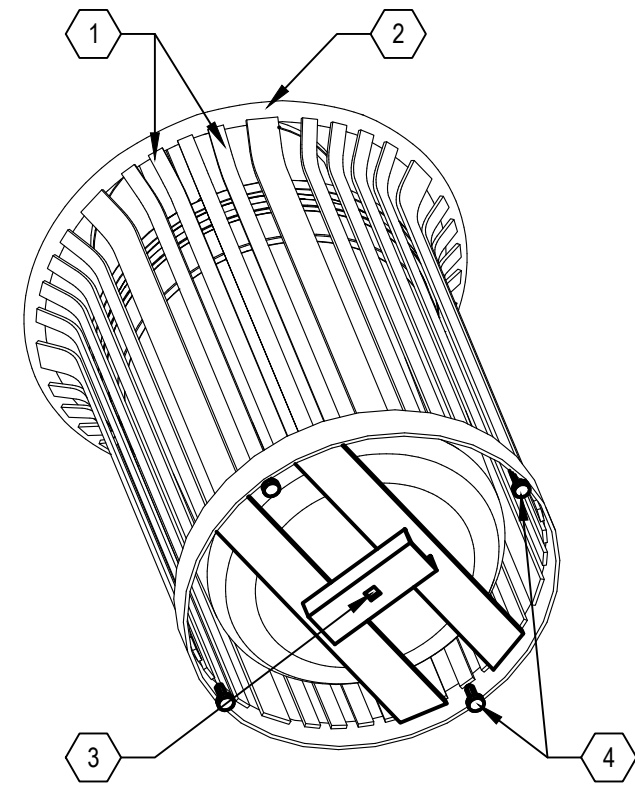


FRONT ELEVATION

- 1 VICTOR STANLEY MODEL SD-42 TRASH RECEPTACLE
- 2 1/2" Ø X 3" S.S. VANDAL RESISTANT ANCHOR BOLT, TYP.
- 3 CUSTOM STEEL PLAQUE WITH PRESSURE SENSITIVE OUTDOOR DECAL OF CITY OF DETROIT LOGO - ONE PLAQUE ON OPPOSITE SIDE OF SELF-CLOSING DOOR.
- 4 STANDARD LOCKABLE LATCH
- 5 RAIN BONNET LID
- 6 CONCRETE PAVEMENT: REFER TO CONSTRUCTION PLANS
- 7 PROVIDE ADJUSTABLE GLIDES

NOTES:

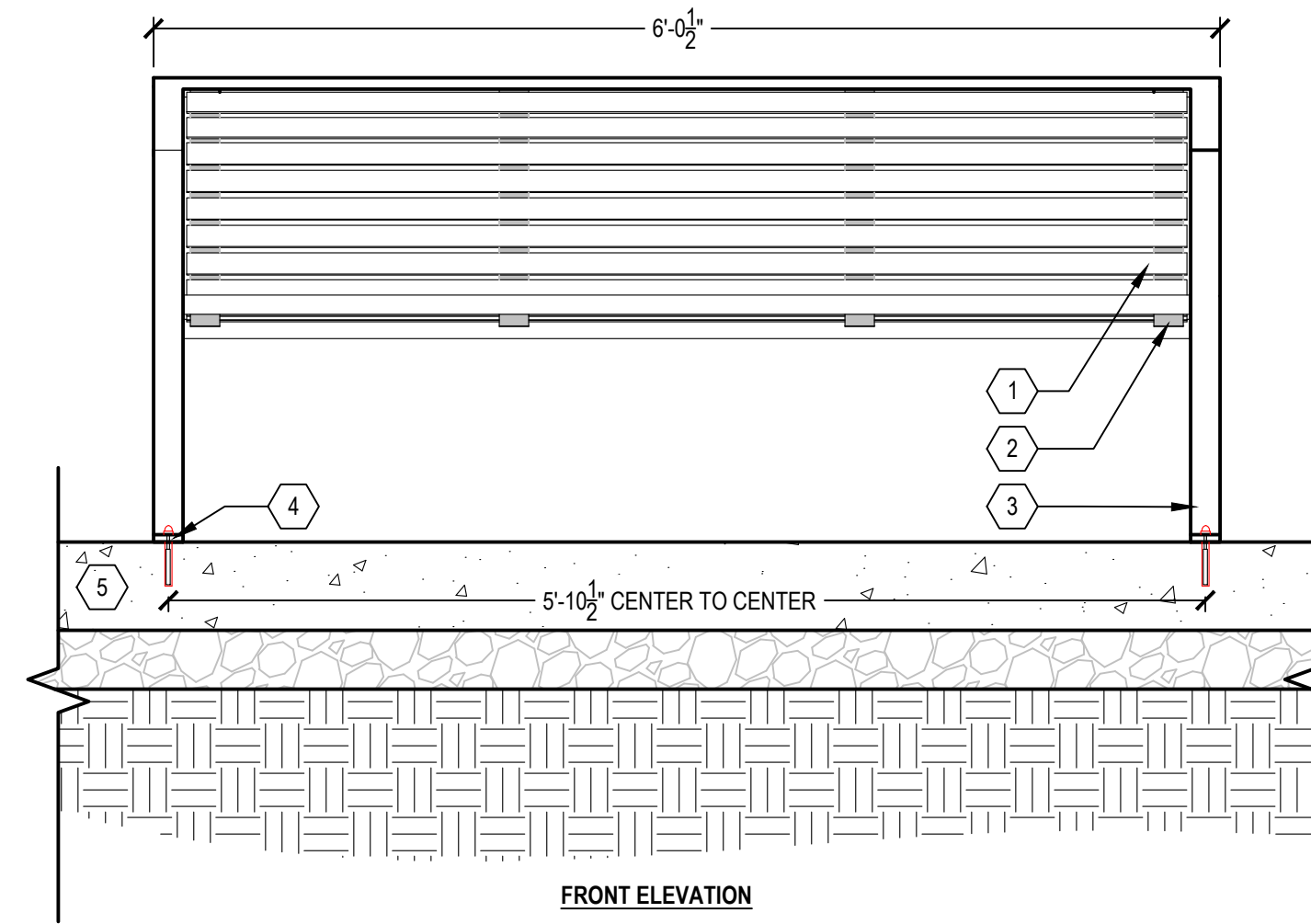
1. TRASH RECEPTACLE TO BE VICTOR STANLEY, MODEL SD-42 WITH RAIN BONNET LID, 36 GALLON CAPACITY.
2. ALL FABRICATED COMPONENTS ARE STEEL HOT-DIPPED GALVANIZED WITH BLACK POWDER COAT FINISH.
3. SURFACE MOUNT USING (1) 1/2" Ø X 3" S.S. VANDAL RESISTANT ANCHOR BOLT.



AXONOMETRIC VIEW- SURFACE MOUNTING

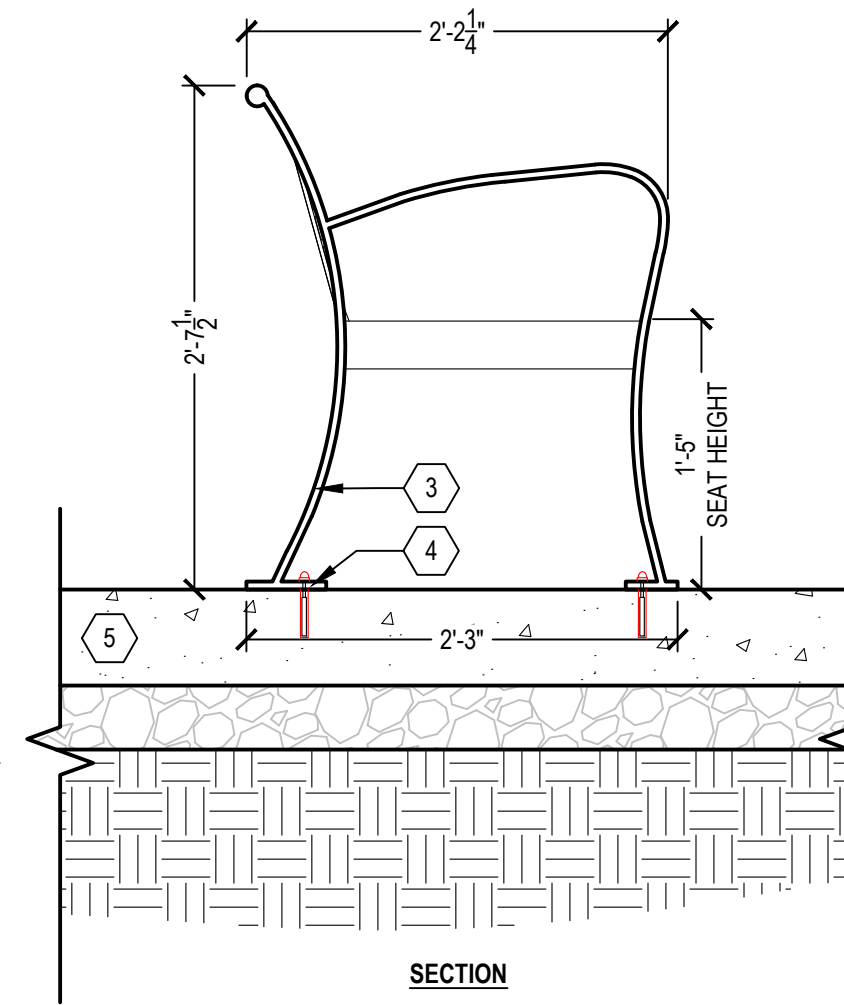
- 1 3/8" X 1" VERTICAL SOLID STEEL BARS
- 2 5/8" SOLID STEEL TOP RING
- 3 3/4" SQUARE CENTER ANCHOR BOLT HOLD
- 4 LEVELING FEET WITH A 3/8" Ø THREADED STEEL SHAFT

4. SEE CONSTRUCTION PLANS FOR TRASH RECEPTACLE LOCATIONS. CONFIRM ALL TRASH RECEPTACLE LOCATIONS AND ORIENTATIONS INCLUDING ORIENTATION OF THE DOOR WITH ENGINEER PRIOR TO INSTALLATION. ADJUSTMENTS TO THE LOCATION AND ORIENTATION SHALL BE PROVIDED AT NO ADDITIONAL COST.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ADJUST LEVELING FEET TO ENSURE RECEPTACLE IS SET LEVEL AND PLUMB.
6. PROVIDE HIGH DENSITY PLASTIC LINER. DRILL 3/4" Ø DRAINAGE HOLES IN BOTTOM OF LINER.



FRONT ELEVATION

- 1 STEEL SLATS ARE FORMED FROM 1/4" X 1-1/2" SOLID STEEL BARS
- 2 1/4" X 2" BRACES FOR ADDITIONAL SUPPORT
- 3 FINISHED END UNIT IS MADE FROM 1/2" X 2" SOLID STEEL BAR
- 4 1/2" DIA. X 3" S.S. VANDAL RESISTANT ANCHOR BOLT, TYP.
- 5 CONCRETE PAVEMENT, SEE PLANS



SECTION

NOTES:

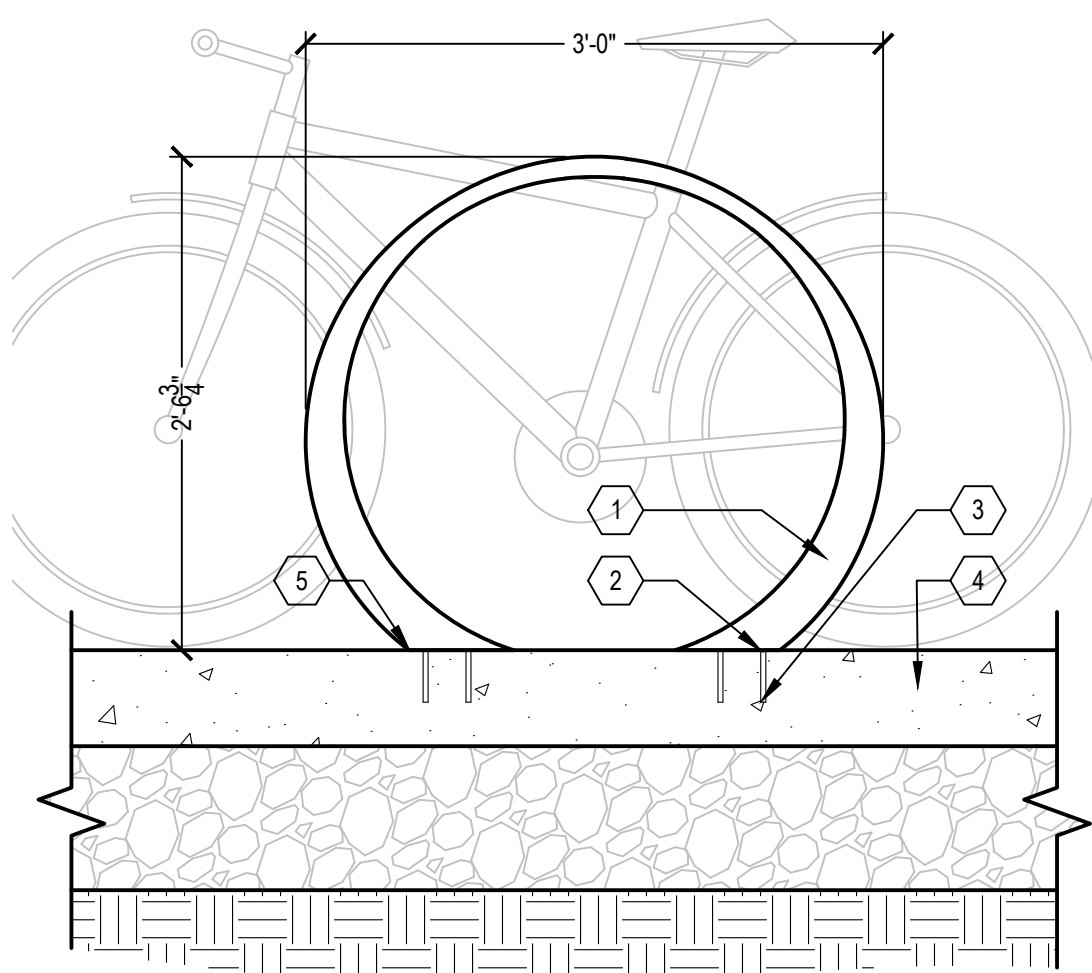
1. BENCH, 6 FOOT TO BE VICTOR STANLEY STEELITES RB COLLECTION, MODEL- RBF-28 HORIZONTAL STEEL SLATS, 6'-0" LENGTH.
2. ALL FABRICATED COMPONENTS ARE STEEL HOT-DIPPED GALVANIZED WITH BLACK POWDER COAT FINISH.
3. BENCH TO BE SURFACE MOUNTED WITH 1/2" Ø S.S. VANDAL RESISTANT ANCHOR BOLTS (4) PER BENCH.
4. SEE CONSTRUCTION PLANS FOR BENCH LOCATIONS. CONFIRM ALL BENCH LOCATIONS AND ORIENTATIONS ON-SITE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. ADJUSTMENTS TO THE LOCATION, SPACING AND ORIENTATION SHALL BE PROVIDED AT NO ADDITIONAL COST.

2 BENCH, METAL

SCALE: 1" = 1'

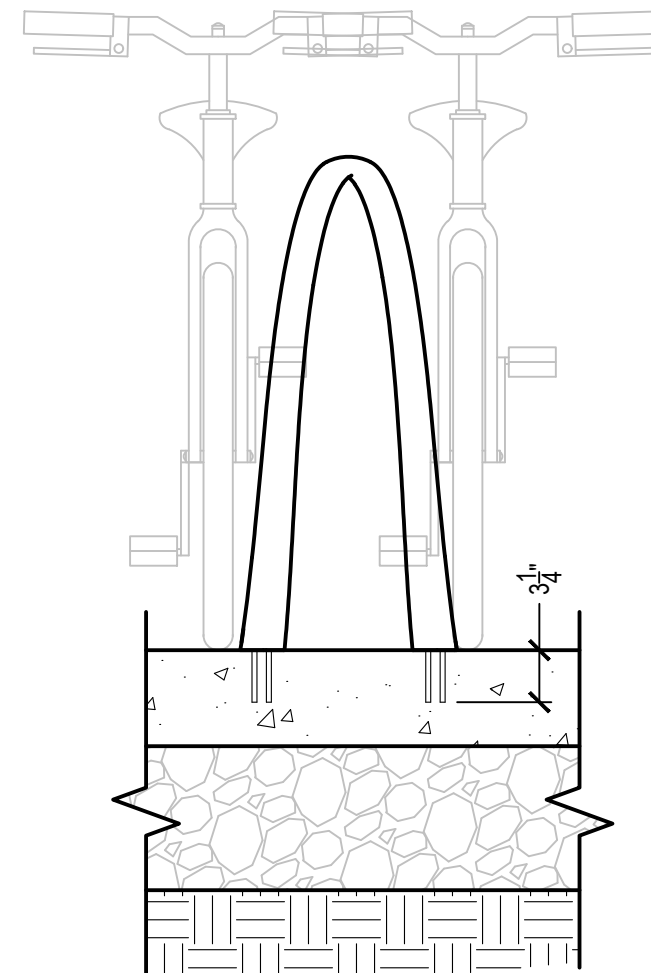
1 TRASH RECEPTACLE

SCALE: 1" = 1'



FRONT ELEVATION

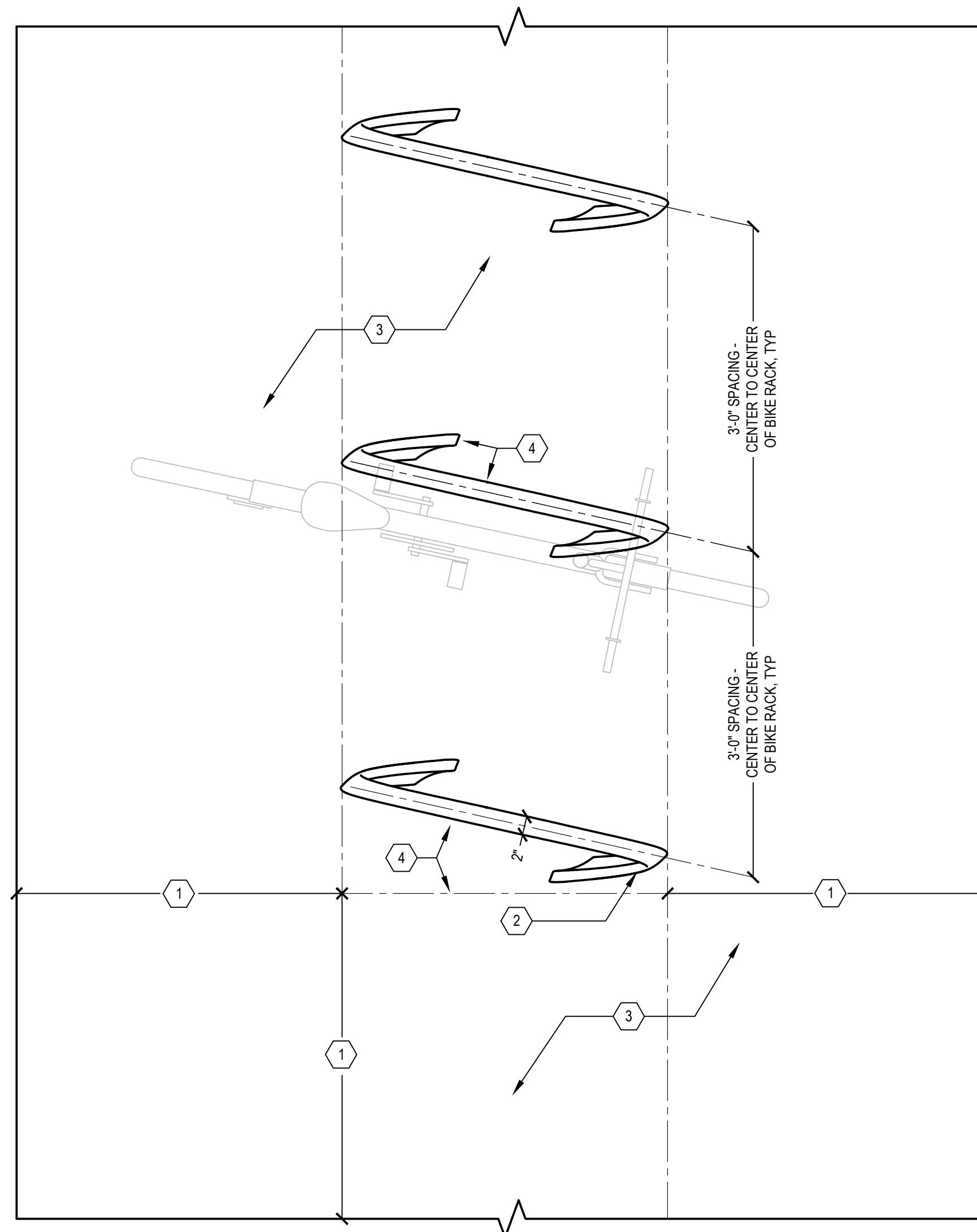
- 1 LOOP BIKE RACK
- 2 7/16" Ø X 4" S.S. THREADED ANCHOR RODS
- 3 (4) 7/16" DIA. HOLES - 4 1/4" DEEP FOR ANCHOR RODS
- 4 CONCRETE SIDEWALK
- 5 BOTTOM OF BIKE RACK TO SET FLUSH ON CONCRETE PAVEMENT



SECTION

NOTES:

1. BIKE RACK TO BE LANDSCAPE FORMS, 35 COLLECTION, MODEL 'LOOP'.
2. BIKE RACK IS ALUMINUM CASTING WITH MATTE BLACK POWDER COAT FINISH.
3. EMBEDDED MOUNT USING (4) 5/16" Ø X 4" S.S. THREADED ANCHOR RODS. FILL HOLES WITH ANCHORING ADHESIVE/ EPOXY. REMOVE EXCESS EPOXY FROM CONCRETE AND BIKE RACK BEFORE IT CURES.
4. SEE LAYOUT PLANS FOR BIKE RACK LOCATIONS. CONFIRM LOCATIONS, SPACING, AND ORIENTATION ON-SITE WITH ENGINEER PRIOR TO INSTALLATION.
5. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. PRIOR TO INSTALLATION CONFIRM WITH ENGINEER THAT AN ACCESSIBLE ADA PEDESTRIAN PATH IS PROVIDED ADJACENT TO BIKE RACKS.



PLAN - LAYOUT

- 1 PROVIDE MIN 3'-0" CLEARANCE AROUND ALL SIDES OF BIKE RACK AND ADJACENT WALLS, CURBS, STRUCTURES, AND OTHER OBSTRUCTIONS
- 2 LOOP BIKE RACK
- 3 CONCRETE SIDEWALK
- 4 BIKE RACKS ARE MANUFACTURED WITH A TWIST IN THE ALIGNMENT. LAYOUT BIKE RACKS IN PARALLEL AS SHOWN WITH ANGLE TO ADJACENT BACK OF SIDEWALK, CURB, AND BUILDING AS SHOWN.

SCALE: 1" = 1'

3 BIKE RACK

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCIPRJ - 19119 - 006 - 006\CAD\USHEE\19119\006-PLANTING DETAILS.DWG LAYOUT: LP007 DATE: 7/20/2023 TIME: 1:52:30 PM USER: KGIBBONS



REVISIONS

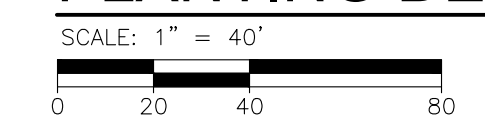
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

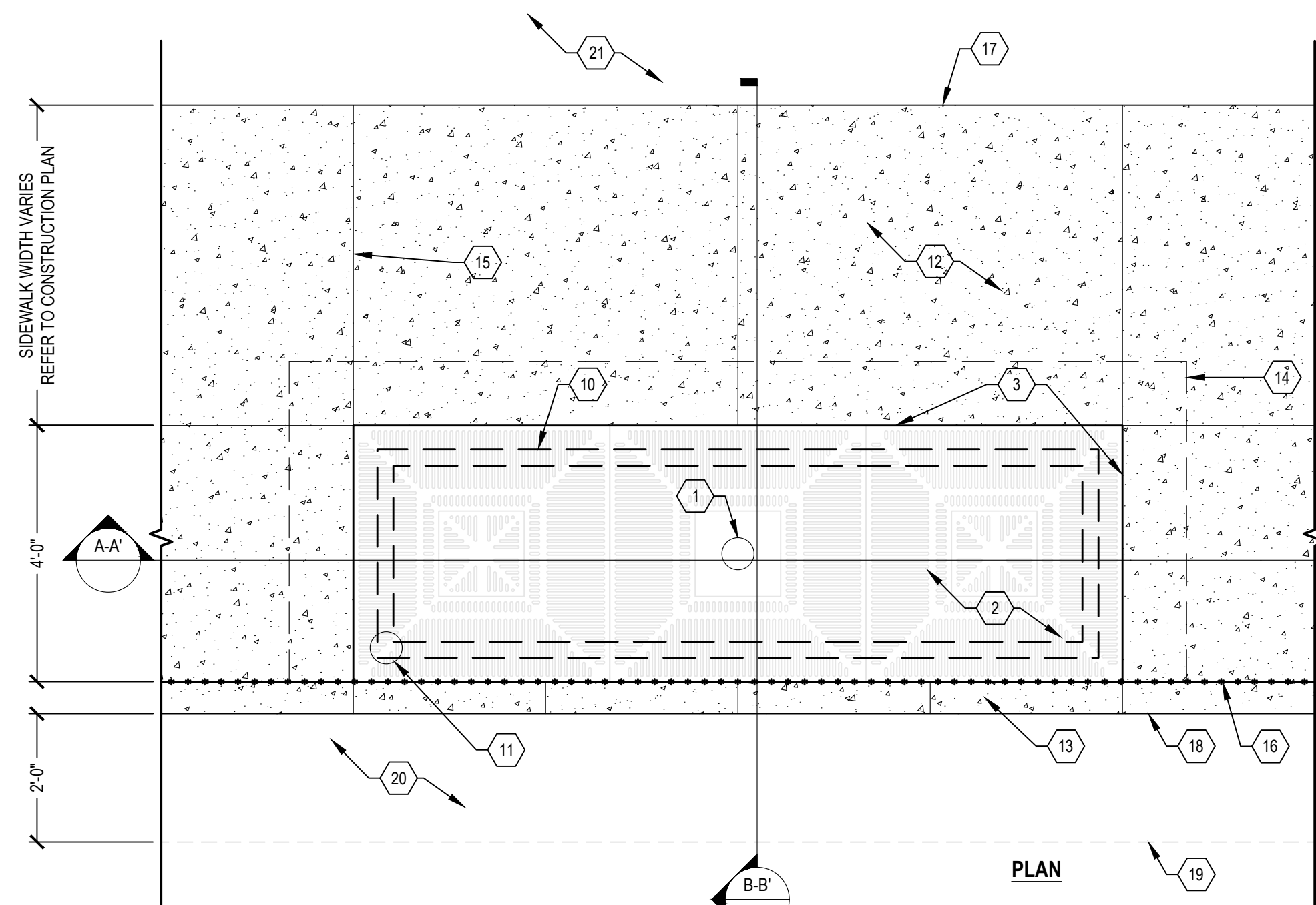
Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

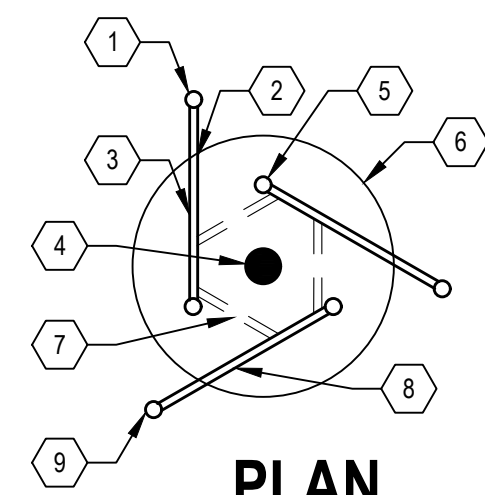
PROJECT NO.  
**191190**  
SHEET NO.  
**119**  
**LP007**

PLANTING DETAILS



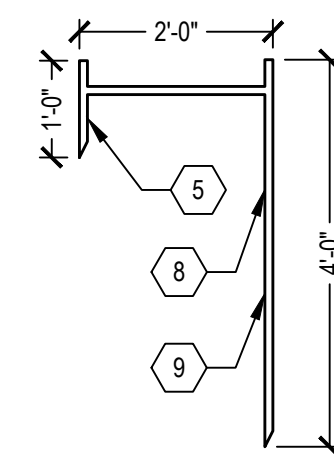


- 1 DECIDUOUS TREE, REFER TO PLANTING PLANS
- 2 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT, IRON SMITH: ADA OR E.J. SUNRAY (CONFIRM MODEL AND MANUFACTURER)
- 3 TREE GRATE, FRAME AND FRAME ANCHOR INTO CONCRETE
- 4 ROOT BALL STABILIZER, SEE DETAIL 2 THIS SHEET
- 5 PEA STONE, 2-INCH DEPTH
- 6 PLANTING MIXTURE, 24 INCH DEPTH (COMPACT TO 70-80% PROCTOR)
- 7 PLANTING MIXTURE, 24 INCH DEPTH (BELOW ROOT BALL; COMPACT TO 85-90% PROCTOR)
- 8 AGGREGATE BASE, DRAINAGE COURSE, 24-INCH DEPTH
- 9 GEOTEXTILE SEPARATION FABRIC (COMPLETELY WRAP DRAINAGE AGGREGATE AND OVERLAP GEOTEXTILE 12")
- 10 WATERING / AERATION PIPE LOOP, 3-INCH Ø PVC. PROVIDE CAP WITH S. S. SCREEN, 3' X 11" RECTANGLE, 90° FITTINGS TO BE GLUED, 1/8-INCH Ø HOLES DRILLED EVERY 6" ON BOTTOM OF PIPE; NO DRILLING WITHIN FITTINGS
- 11 ACCESS HOLE IN GRATE 6" Ø MIN. WITH ACCESS COVER PLATE (ALIGNED ON ROAD SIDE OF TREE GRATE) TO ALIGN WITH VERTICAL PIPE OF WATERING / AERATION SYSTEM, COORDINATE WITH TREE GRATE MANUFACTURER
- 12 ADJACENT PAVEMENT VARIES, SEE CONSTRUCTION PLANS
- 13 CONCRETE CURB, DETAIL CD, MODIFIED
- 14 THICKENED EDGE CONCRETE (MIN. 12" DEEP X 12" WIDE FROM EDGE OF FRAME)
- 15 CONTROL JOINT
- 16 SEALED EXPANSION JOINT
- 17 BACK OF SIDEWALK
- 18 FACE OF CURB
- 19 SAWCUT EXISTING ROAD SURFACE AT SIDE-STREETS AND AREAS NOT RECEIVING FULL-DEPTH RECONSTRUCTION, SEE PLANS
- 20 BITUMINOUS ROAD SURFACE
- 21 ADJACENT CONDITIONS VARY, REFER TO CONSTRUCTION PLANS
- 22 ROOT BARRIER (24" DEEP X 24" WIDE) PER PANEL CONTINUOUS PANELS ON ALL SIDES OF THE TREE PIT
- 23 SCARIFY TO 1'-0" DEPTH AND RECOMPACT



- 1 PLACE SAFETY CAPS ON EXPOSED ENDS AFTER INSTALLATION
- 2 LOCATE ROOT BALL STABILIZERS (STAPLES) EQUALLY AROUND THE TREE BALL
- 3 DRIVE ROOT BALL STABILIZER (STAPLE) INTO THE GROUND UNTIL THE CROSS-BAR IS RECESSED 1" TO 2" BELOW THE SURFACE OF THE ROOT BALL
- 4 TREE TRUNK
- 5 SHORT PRONG - LOCATE HALFWAY BETWEEN THE TREE TRUNK AND OUTER EDGE OF THE TREE BALL
- 6 TREE ROOT BALL
- 7 FOR LOOSE ROOT BALLS OR CONTAINER STOCK, TIE BURLAP TREE WRAP (3'-5" WIDTH) TO THE CROSS BARS ON EITHER SIDE OF THE TREE TRUNK. KEEP BURLAP WRAP AWAY FROM TREE TRUNK.
- 8 48" STEEL ROOT BALL STABILIZER (STAPLE) PROVIDE (5) PER TREE
- 9 LONG PRONG - LOCATE OUTSIDE AND ADJACENT TO THE TREE BALL

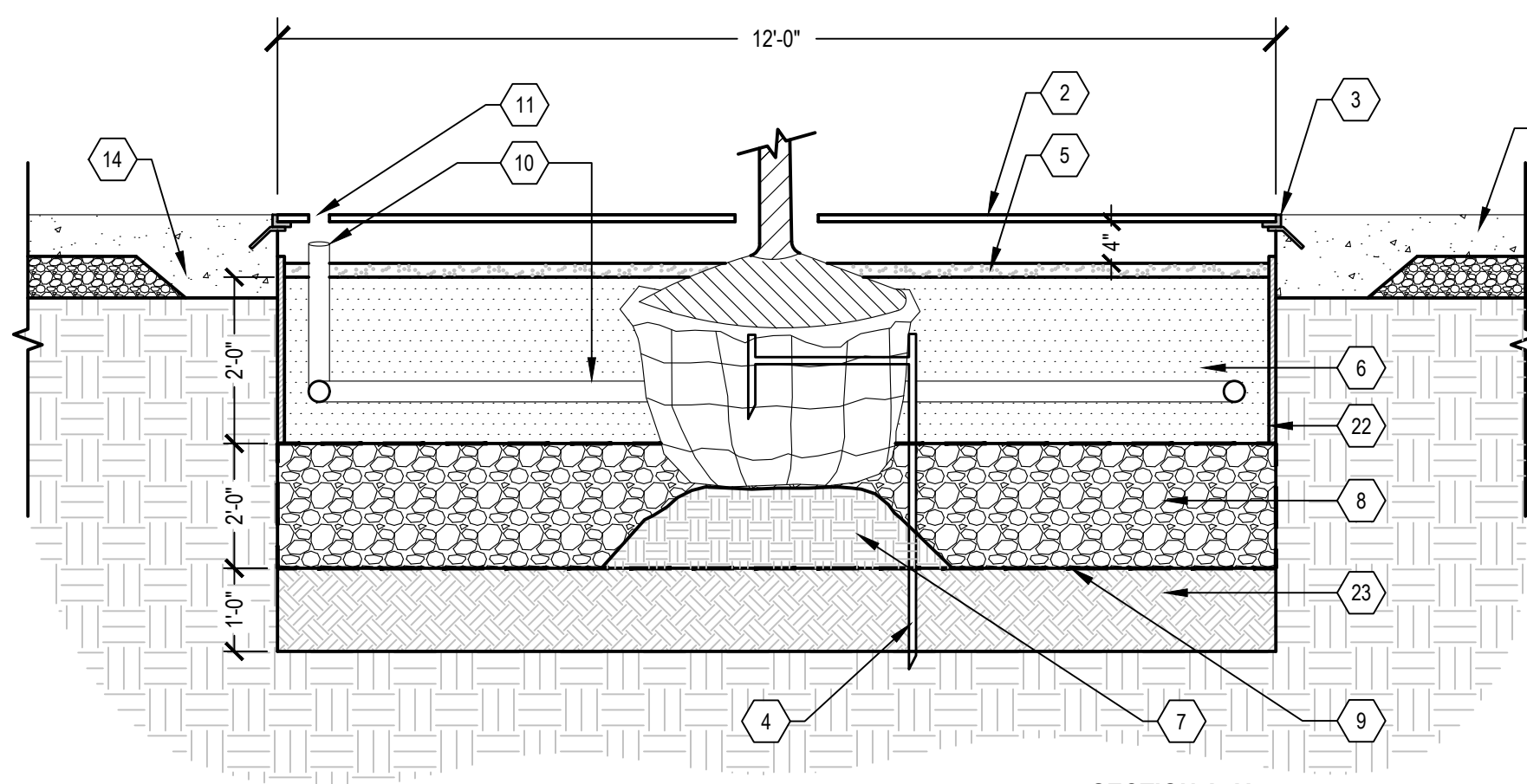
PLAN



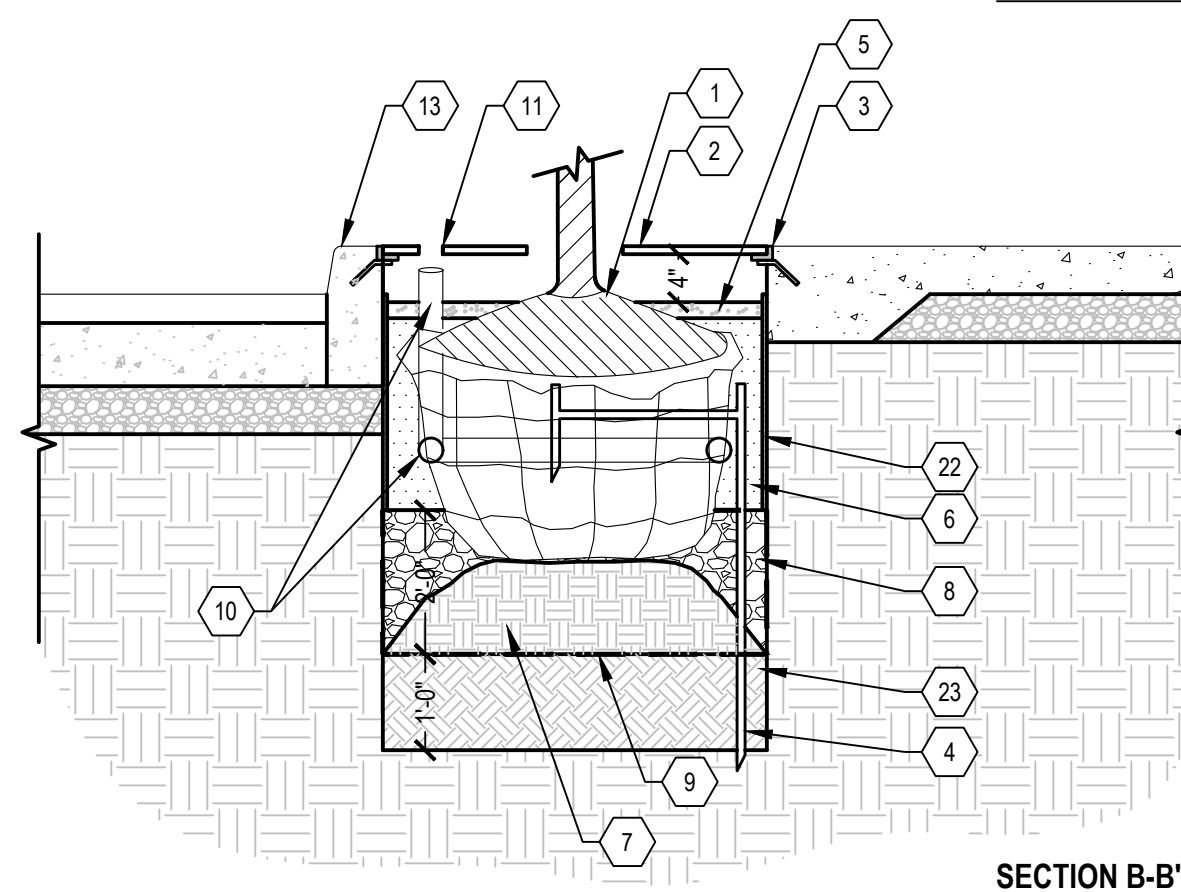
ELEVATION

2 ROOT BALL STABILIZER

SCALE: 1" = 1'



SECTION A-A'



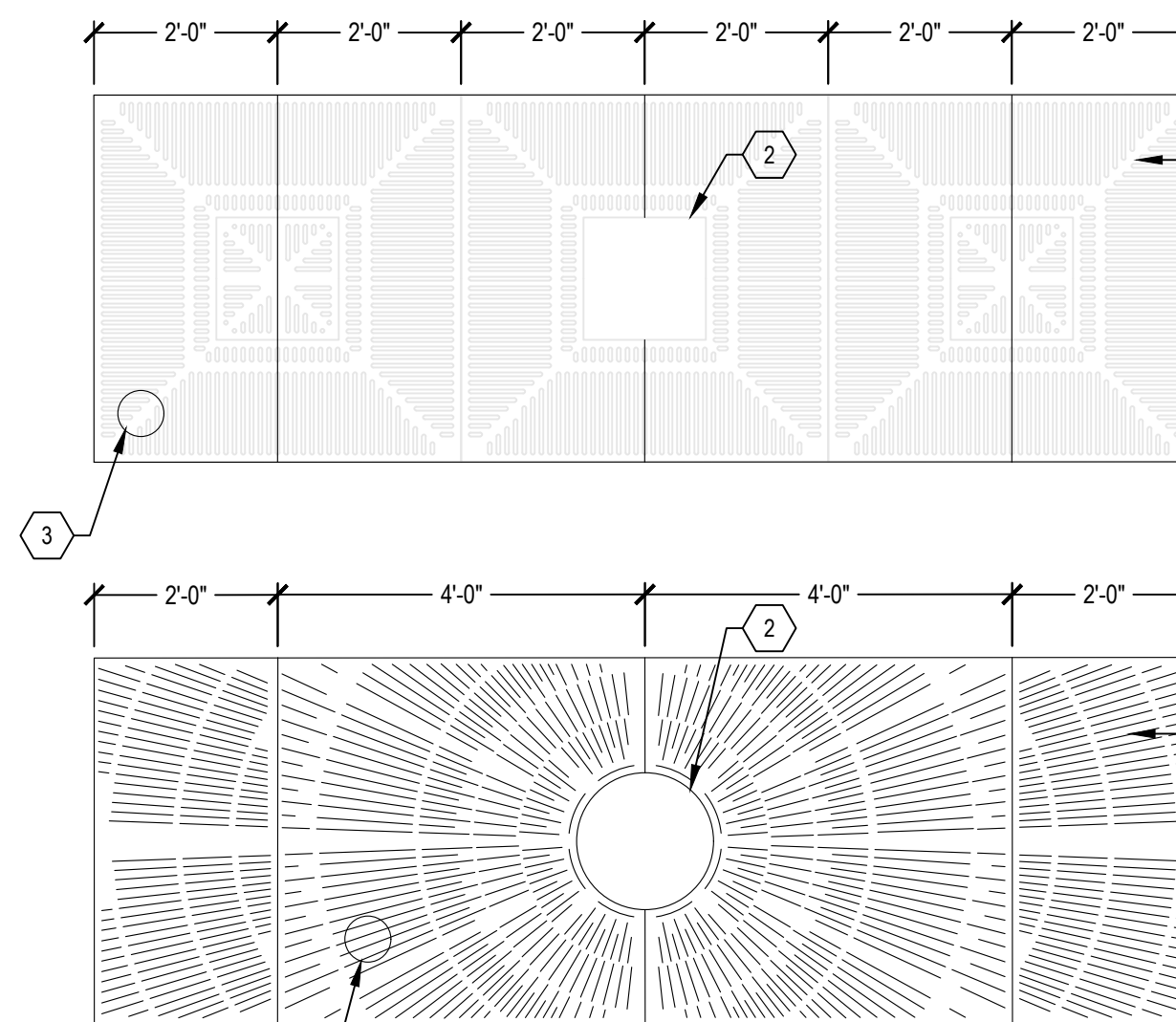
SECTION B-B'

NOTES:

- 1. TREE GRATES: SEE MANUFACTURER INFORMATION FOR EACH GRATE - SEE DETAILS
- 2. TREE GRATE TO BE ADA COMPLIANT.
- 3. TREE OPENING SIZE OF 12" X 12" SQUARE.
- 4. PROVIDE TREE GRATE IN CAST DUCTILE IRON MEETING LOAD CLASS C WITH BAKED-ON-OIL FINISH.
- 5. SPOT WELD EACH TREE GRATE SECTION TO THE FRAME IN A MINIMUM OF 3 LOCATIONS OR PROVIDE VANDAL RESISTANT / TAMPER-PROOF BOLT SYSTEM TO ENSURE TREE GRATES CAN NOT BE REMOVED. IF NEEDED, A METAL SHIM CAN BE ADDED BETWEEN THE GRATE AND FRAME TO CLOSE THE GAP AT SPOT WELDS. THE SPOT WELD SHALL BE COMPLETED TO HIDE THE SHIM AND THE WELD SHALL BE GROUND SMOOTH.

- 6. PROVIDE (1) - 6" DIAMETER HOLE IN THE TREE GRATE FOR THE AERATION / WATERING RISER. THE HOLE SHALL BE PROVIDED BY THE MANUFACTURER AT THE FACTORY AND SHALL BE COORDINATED WITH THE GRATE DESIGN AND STRUCTURAL LOAD RATING. PROVIDE VANDAL RESISTANT / TAMPER-PROOF SCREWS FOR THE CIRCULAR ACCESS COVER PLATE. ACCESS HOLE TO BE PROVIDED ON THE ROAD SIDE OF THE TREE GRATE.
- 7. PROVIDE MATCHING FRAME FROM EACH MANUFACTURER FOR EACH TREE GRATE. FRAME SHALL BE PROVIDED WITH ANCHORS THAT ALLOW THE FRAME TO BE CAST INTO THE SURROUNDING CONCRETE.
- 8. LOCATE TREE GRATES AS SHOWN ON LAYOUT AND MATERIALS PLANS AND CONFIRM LOCATION WITH ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION OF CAST-IN-PLACE CONCRETE SIDEWALK, COORDINATE CONCRETE CONTROL JOINTS AND SEALED EXPANSION JOINTS IN THE CONCRETE PAVEMENT WITH THE TREE GRATE AS SHOWN ON PLANS.

- 9. ORIENT LONG PATTERN OF GRATE AS SHOWN ON PLANS.
- 10. INSTALL THE TREE GRATE AND FRAME WITH A UNIFORM SLOPE IN ONE DIRECTION CORRESPONDING WITH THE ADJACENT PAVEMENT SLOPE. DO NOT WARP OR UNEVENLY DROP THE ELEVATION OF ONE OR MORE CORNERS OF THE TREE GRATE AND FRAME TO ENSURE GRATES SET FLUSH CONTINUOUSLY AROUND THE FRAME WITHOUT ROCKING. ENSURE THE TREE GRATES ARE SET FLUSH AND EVEN WITH THE FRAME AND ADJACENT PAVEMENT.
- 11. TREE GRATES SHALL BE CENTERED ON THE FRAME WITH 1/2" OR LESS GAP TO COMPLY WITH ADA REQUIREMENTS.



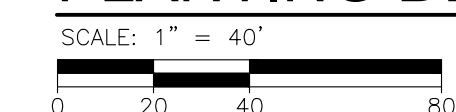
- 1 TREE GRATE, IRON SMITH: ADA, 4X12, SIX PANELS 812.662.9944 WWW.IRONSMITH.CC
- 2 22" X 22" OPENING SIZE
- 3 ACCESS HOLE 6" Ø MIN. WITH ACCESS PANEL PLATE IN GRATE (ALIGNED ON ROAD SIDE OF TREE GRATE) TO ALIGN WITH VERTICAL PIPE OF WATERING / AERATION SYSTEM, COORDINATE WITH TREE GRATE MANUFACTURER. PROVIDE VANDAL RESISTANT / TAMPER-PROOF SET-SCREWS FOR ACCESS COVER PLATE AND PROVIDE CORRESPONDING TOOL TO ENGINEER.

- 1 TREE GRATE, E.J. : SUNRAY, 4X12, TWO PANEL SIZES: (2) 4'X2' AND (2) 4'X4' 800.626.4653 WWW.EJCO.COM
- 2 24" Ø OPENING
- 3 ACCESS HOLE 6" Ø MIN. WITH ACCESS PANEL PLATE IN GRATE (ALIGNED ON ROAD SIDE OF TREE GRATE) TO ALIGN WITH VERTICAL PIPE OF WATERING / AERATION SYSTEM, COORDINATE WITH TREE GRATE MANUFACTURER. PROVIDE VANDAL RESISTANT / TAMPER-PROOF SET-SCREWS FOR ACCESS COVER PLATE AND PROVIDE CORRESPONDING TOOL TO ENGINEER.

1 TREE GRATE AND FRAME, 4 FOOT x 12 FOOT

SCALE: 1" = 1'

PLANTING DETAILS



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	KG
Designer	KG
Reviewer	BC
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

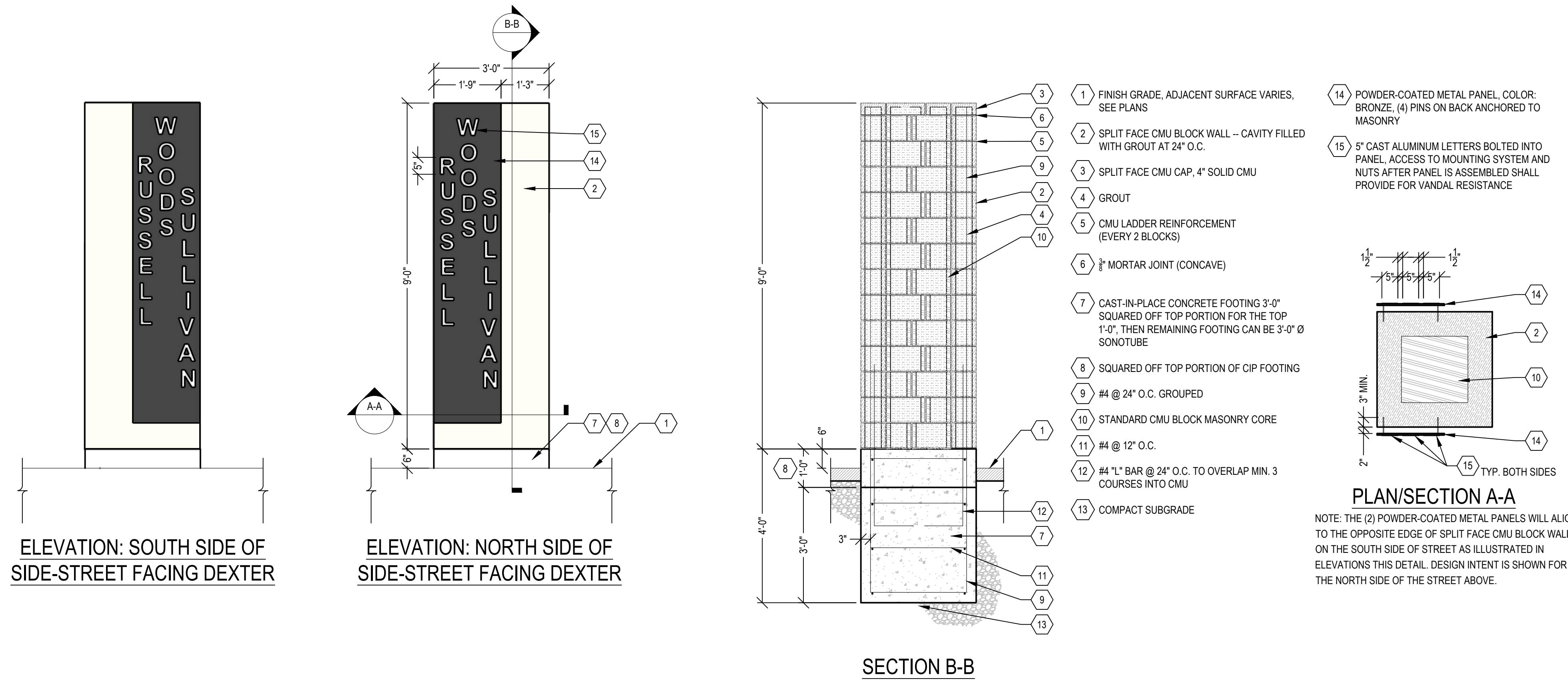
191190

SHEET NO.

120

LP008

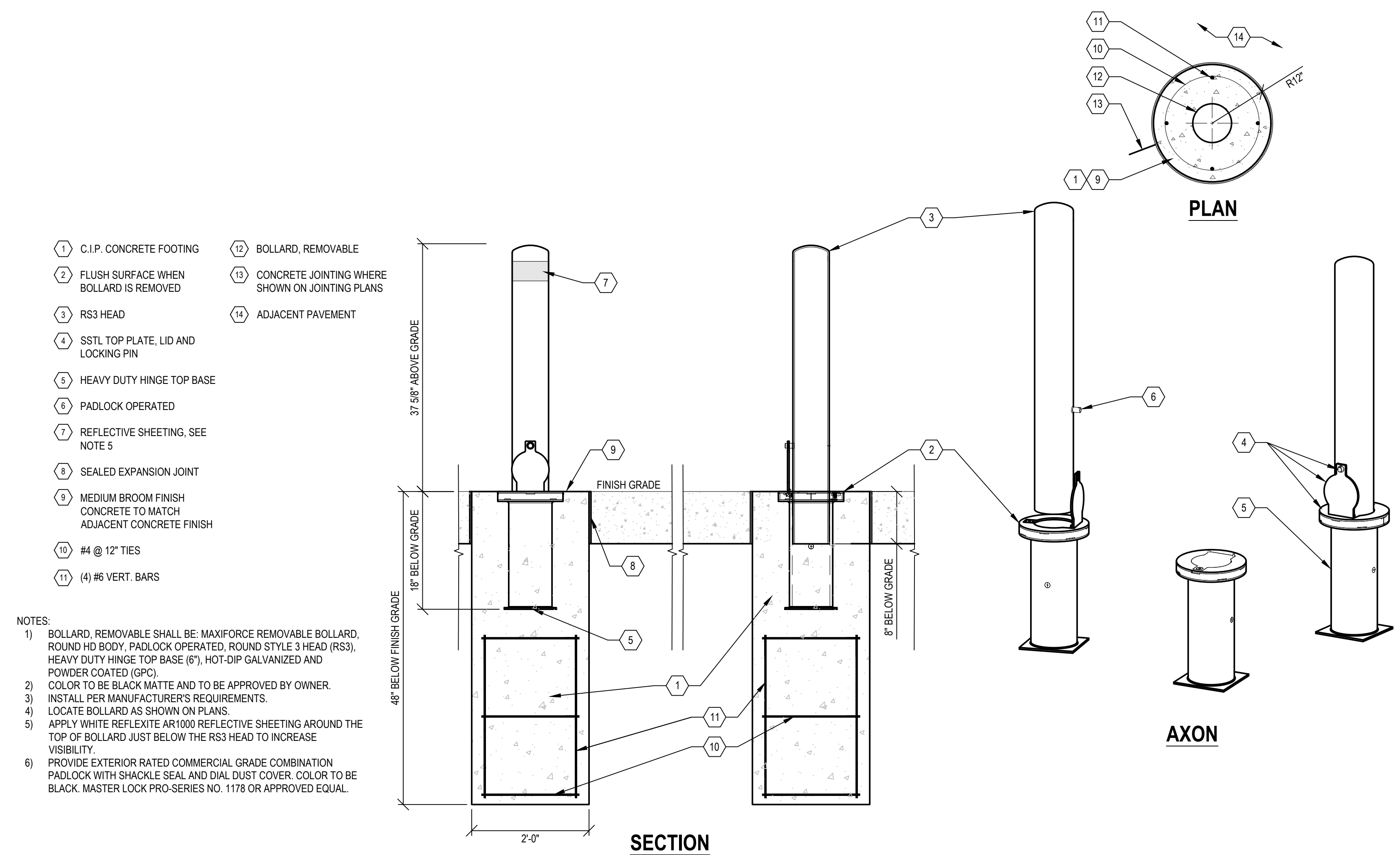




- NOTES:**
- SUBMIT COMPLETE SHOP DRAWINGS SHOWING FABRICATION, MATERIALS, INSTALLATION DETAILS, DIMENSIONS, FONTS / LETTERING, FINISHES, ACCESSORIES, JOINTS, WELDS, ANCHORAGE, COLORS AND OTHER APPURTENANCES REQUIRED FOR A COMPLETE GATEWAY STRUCTURE INSTALLATION TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO FABRICATION.
  - COORDINATE AND FIELD VERIFY GATEWAY STRUCTURE LOCATIONS AND ORIENTATION WITH THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION. VERIFY FIELD CONDITIONS AND MEASUREMENTS BEFORE FABRICATION AND INSTALLATION. VERIFY UTILITY LINES IN THE AREA PROPOSED FOR THE SIGN INSTALLATION. ANY DAMAGE DURING INSTALLATION OF SIGN TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT NO ADDITIONAL COST.
  - EXPOSED PORTION OF THE CONCRETE FOUNDATION SHALL BE CLEAN, SMOOTH, CONSISTENT FINISH WITHOUT IMPERFECTIONS, CHIPS, MARKS AND HONEYCOMB. FOUNDATIONS NOT MEETING THESE REQUIREMENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
  - SHOP FABRICATE AND PRE-ASSEMBLE METAL PANEL, VERIFY IN FIELD DIMENSIONS PRIOR TO FABRICATION.
  - ALL STEEL COMPONENTS TO BE EXTERIOR RATED AND SHALL EITHER BE GALVANIZED AND POWDERCOATED OR STAINLESS STEEL.
  - ALL EXPOSED HARDWARE TO BE TACK WELDED ON NON-EXPOSED SIDE FOR VANDAL RESISTANCE OR OTHER METHOD APPROVED BY ENGINEER.
  - THE GATEWAY STRUCTURE DETAILS ARE PROVIDED TO FORM THE BASIS OF DESIGN AND ARE PROVIDED TO ILLUSTRATE THE AESTHETIC, PERFORMANCE AND FUNCTIONAL CHARACTERISTICS ONLY. THE DIMENSIONS SHOWN ARE PROVIDED TO QUANTIFY THE FORM AND OVERALL SCALE OF THE SIGN. THE DIMENSIONS PROVIDED DO NOT INDICATE THE PRECISE SIZES OF MEMBERS OR ASSEMBLIES.
  - THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEERING AND STRUCTURAL DESIGN AS WELL AS ALL OTHER REQUIRED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND OPERATIONAL GATEWAY MONUMENT THAT MATCHES THE DESIGN ILLUSTRATED. MODIFICATIONS TO THE FOUNDATION, ANCHORAGES/FASTENERS, STRUCTURAL MEMBERS AND OTHER COMPONENTS MAY BE NECESSARY.
  - GATEWAY STRUCTURE MUST WITHSTAND 100 MPH WIND LOADS AND MEET ALL APPLICABLE BUILDING CODES, LAWS AND REGULATIONS. THE DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL AND MICHIGAN BUILDING CODES.
  - THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEERING, MATERIALS, EQUIPMENT, FABRICATION, TOOLS, LABOR AND INSTALLATION OF THE GATEWAY MONUMENT INCLUDING ALL ANCHORAGES/MOUNTING ACCESSORIES, FOUNDATIONS, FITTINGS, FASTENINGS, STRUCTURAL SUPPORTS, RIGGING AND FINISHES. ALL GATEWAY MONUMENT MATERIALS SHALL BE DESIGNED AND RATED FOR EXTERIOR ENVIRONMENTS. PROVIDE 9GA. LADDER TYPE HORIZONTAL REINFORCING @ 18" O.C. IN CMU WALL. TYP.
  - SPLIT FACE BLOCK BY GRAND BLANC CEMENT PRODUCTS. COLOR: EARTHSTONE OR APPROVED EQUAL. PROVIDE SAMPLE TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.

1 GATEWAY STRUCTURE

SCALE: 1/2" = 1'

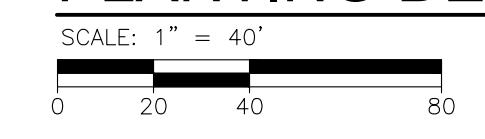


- 1 C.I.P. CONCRETE FOOTING
  - 2 BOLLARD, REMOVABLE
  - 3 FLUSH SURFACE WHEN BOLLARD IS REMOVED
  - 4 CONCRETE JOINTING WHERE SHOWN ON JOINTING PLANS
  - 5 RS3 HEAD
  - 6 ADJACENT PAVEMENT
  - 7 SSSL TOP PLATE, LID AND LOCKING PIN
  - 8 HEAVY DUTY HINGE TOP BASE
  - 9 PADLOCK OPERATED
  - 10 REFLECTIVE SHEETING, SEE NOTE 5
  - 11 SEALED EXPANSION JOINT
  - 12 MEDIUM BROOM FINISH CONCRETE TO MATCH ADJACENT CONCRETE FINISH
  - 13 #4 @ 12" TIES
  - 14 (4) #6 VERT. BARS
- NOTES:**
- BOLLARD, REMOVABLE SHALL BE: MAXIFORCE REMOVABLE BOLLARD, ROUND HD BODY, PADLOCK OPERATED, ROUND STYLE 3 HEAD (RS3), HEAVY DUTY HINGE TOP BASE (6"), HOT-DIP GALVANIZED AND POWDER COATED (GPC).
  - COLOR TO BE BLACK MATTE AND TO BE APPROVED BY OWNER.
  - INSTALL PER MANUFACTURER'S REQUIREMENTS.
  - LOCATE BOLLARD AS SHOWN ON PLANS.
  - APPLY WHITE REFLEXITE AR1000 REFLECTIVE SHEETING AROUND THE TOP OF BOLLARD JUST BELOW THE RS3 HEAD TO INCREASE VISIBILITY.
  - PROVIDE EXTERIOR RATED COMMERCIAL GRADE COMBINATION PADLOCK WITH SHACKLE SEAL AND DIAL DUST COVER. COLOR TO BE BLACK. MASTER LOCK PRO-SERIES NO. 1178 OR APPROVED EQUAL.

2 BOLLARD, REMOVABLE

SCALE: 1" = 1'

PLANTING DETAILS



REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	KG
Designer	KG
Reviewer	BC
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

SHEET NO.  
121  
LP009

REVISIONS

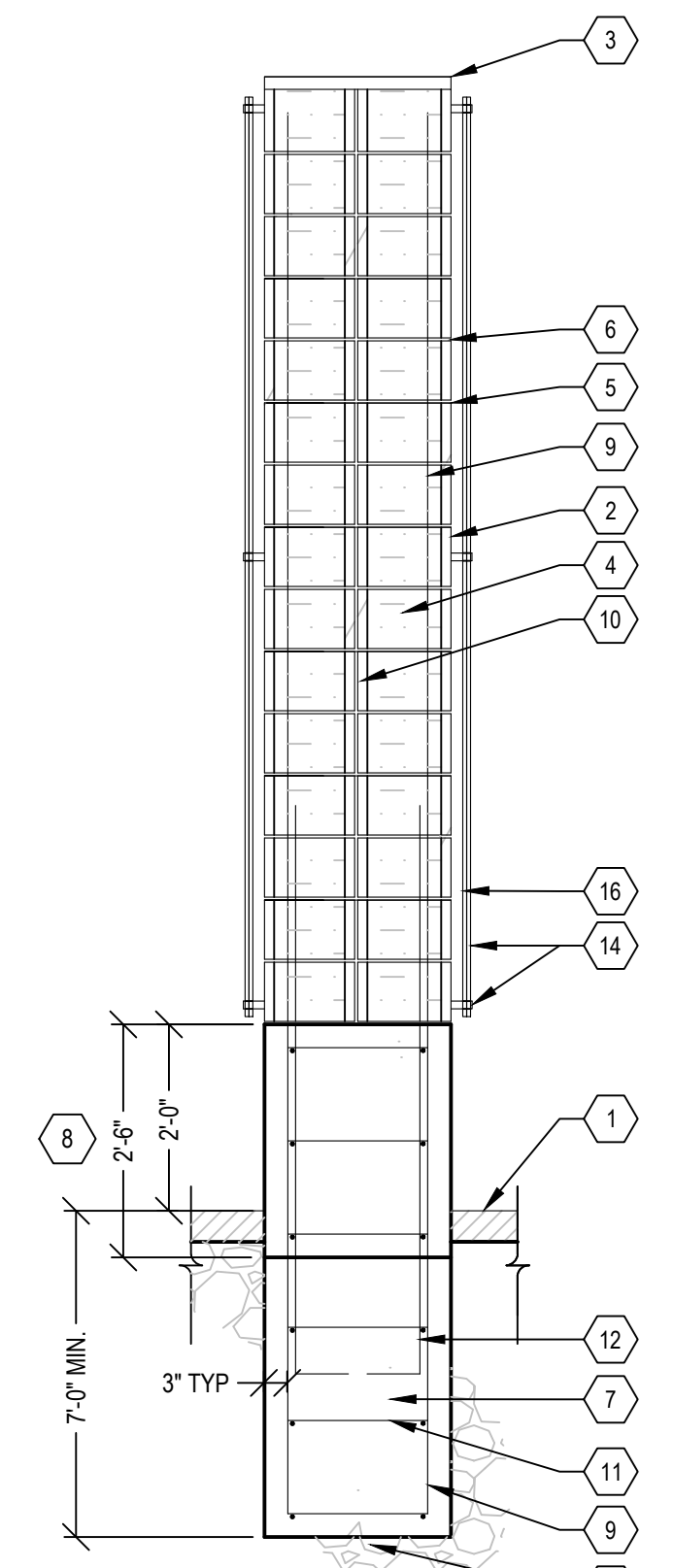
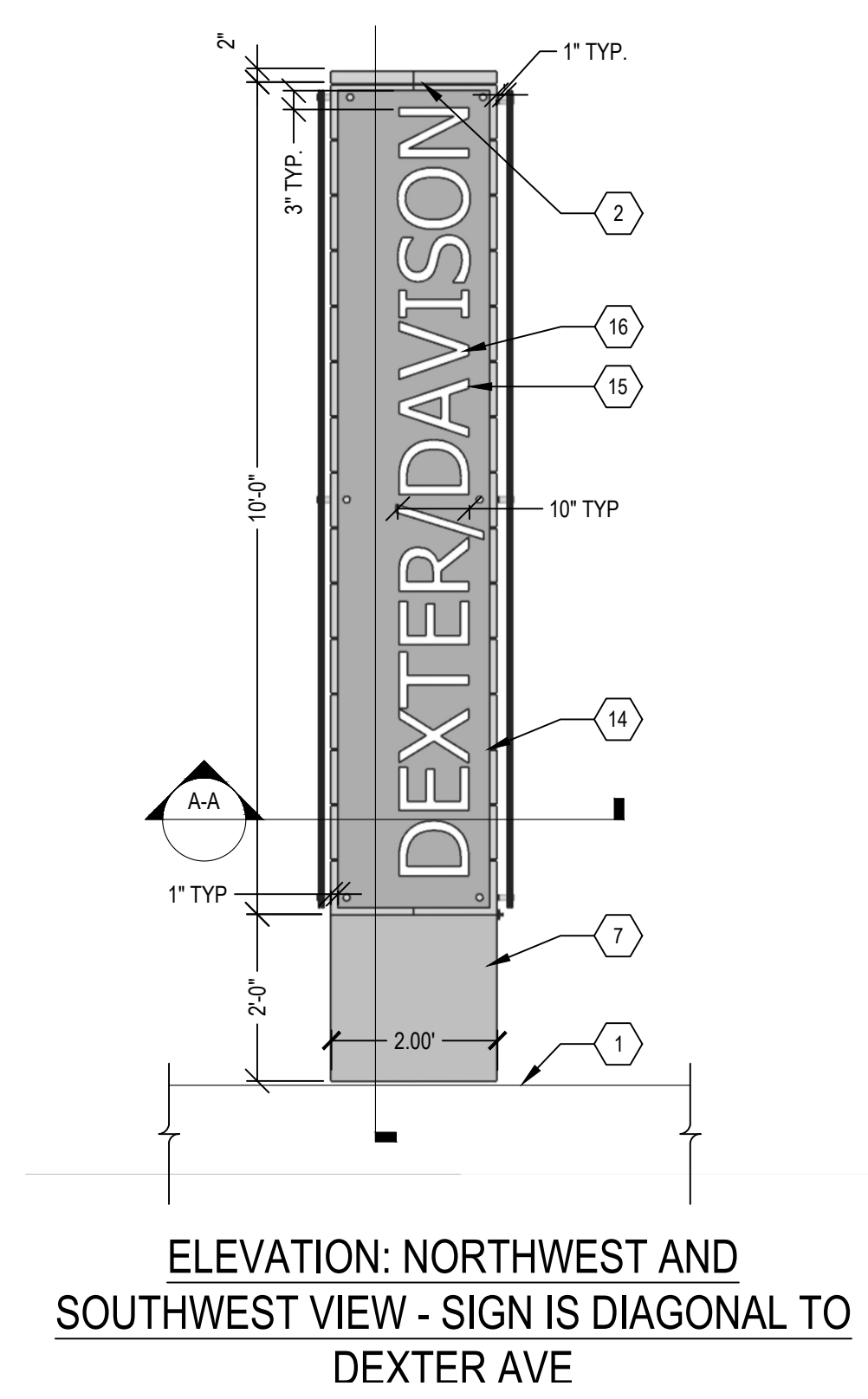
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By	KG
Designer	KG
Reviewer	BC
Manager	KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

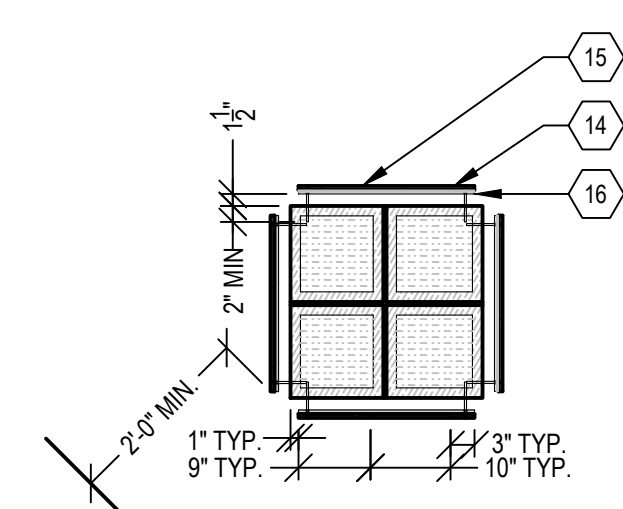
PROJECT NO.  
191190

SHEET NO.  
122  
LP010



- 1 FINISH GRADE, ADJACENT SURFACE VARIES, SEE PLANS
- 2 SPLIT FACE CMU BLOCK WALL
- 3 SPLIT FACE CMU CAP, 2" SOLID CMU
- 4 GROUT
- 5 CMU LADDER REINFORCEMENT (EVERY 2 BLOCKS)
- 6 3/8" MORTAR JOINT (CONCAVE)
- 7 CAST-IN-PLACE CONCRETE FOOTING 5'-6" SQUARED OFF TOP PORTION FOR THE TOP 2'-6" THEN REMAINING FOOTING CAN BE 3'-0" Ø SONOTUBE
- 8 SQUARED OFF TOP PORTION OF CIP FOOTING
- 9 #4 @ 18" O.C. GROUPED
- 10 STANDARD CMU BLOCK MASONRY CORE
- 11 #4 @ 12" O.C.
- 12 #4 "L" BAR @ 18" O.C. TO OVERLAP MIN. 3 COURSES INTO CMU
- 13 COMPACT SUBGRADE

- 14 1/2" CORTEN METAL PANEL, COLOR: BRONZE, (6) PINS EVENLY SPACED ON BACK ANCHORED TO MASONRY
- 15 10" TALL CNC LETTERS
- 16 1/2" THICK ACRYLIC SHEET LIGHTEN WITH WHITE LED'S
- 17 FACE OF CURB AT DEXTER AVENUE



PLAN/SECTION A-A

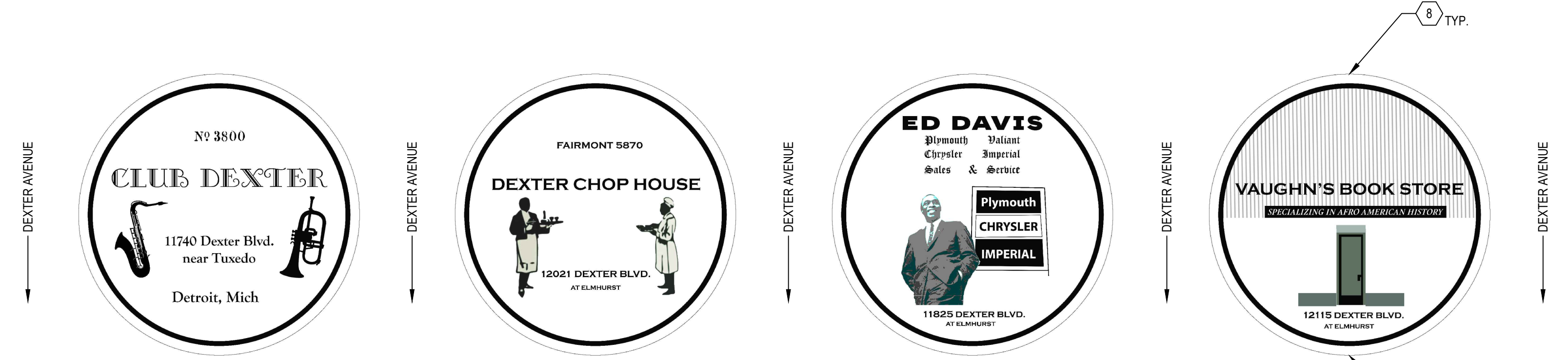
NOTE: THE (2) POWDER-COATED METAL PANELS WILL BE OFFSET BY 1" TO THE OPPOSITE EDGE OF SPLIT FACE CMU BLOCK WALL. DESIGN INTENT IS SHOWN IN THE ELEVATIONS OF THIS DETAIL.

NOTES:

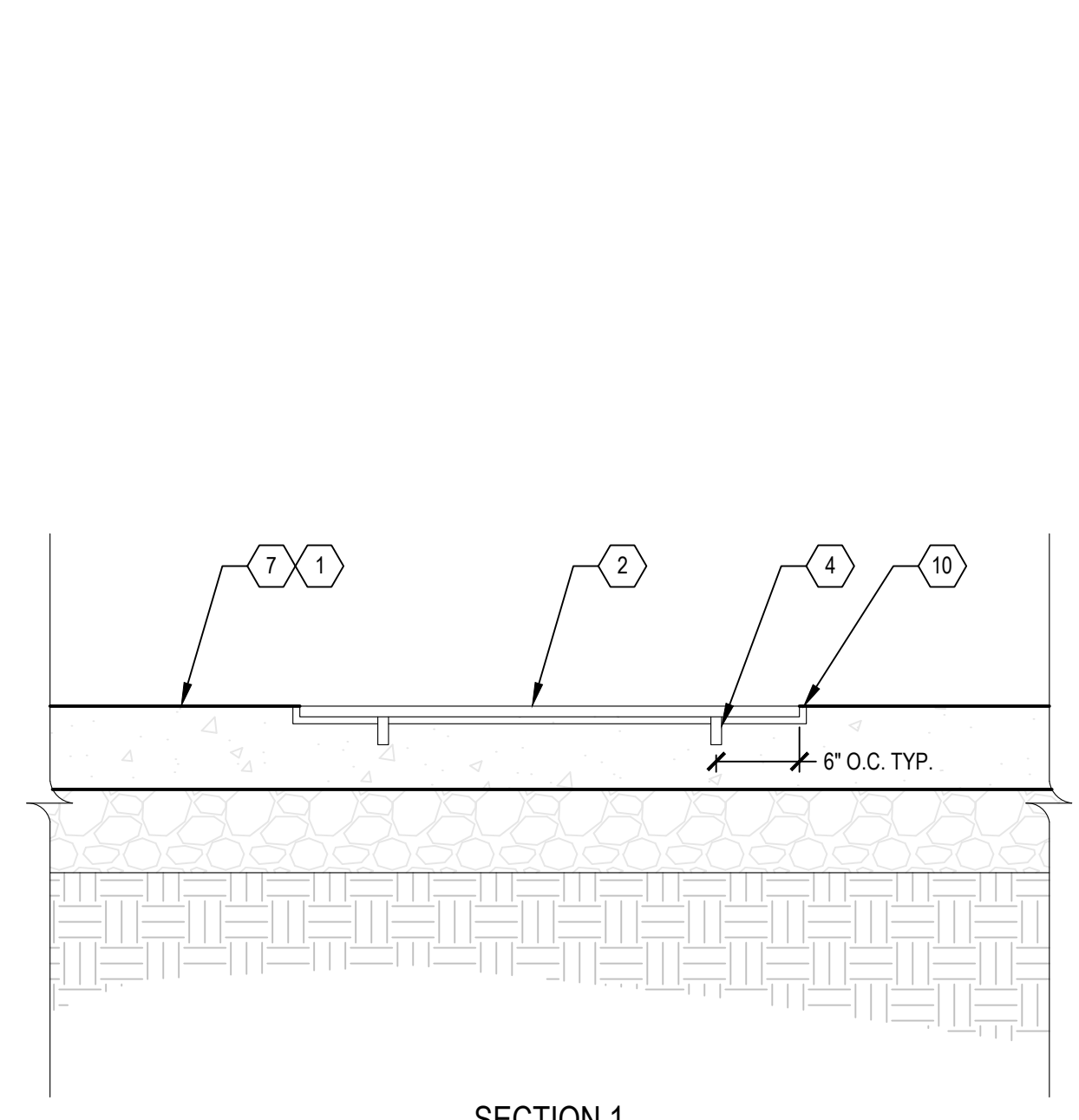
1. SUBMIT COMPLETE SHOP DRAWINGS SHOWING FABRICATION, MATERIALS, INSTALLATION DETAILS, DIMENSIONS, FONTS / LETTERING, FINISHES, ACCESSORIES, JOINTS, WELDS, ANCHORAGE, COLORS AND OTHER APPURTENANCES REQUIRED FOR A COMPLETE WEATHERED STEEL SIGN INSTALLATION TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO FABRICATION.
2. COORDINATE AND FIELD VERIFY WEATHERED STEEL SIGN LOCATIONS AND ORIENTATION WITH THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION. VERIFY FIELD CONDITIONS AND MEASUREMENTS BEFORE FABRICATION AND INSTALLATION. VERIFY UTILITY LINES IN THE AREA PROPOSED FOR THE SIGN INSTALLATION. ANY DAMAGE DURING INSTALLATION OF SIGN TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT NO ADDITIONAL COST.
3. EXPOSED PORTION OF THE CONCRETE FOUNDATION SHALL BE CLEAN, SMOOTH, CONSISTENT FINISH WITHOUT IMPERFECTIONS, CHIPS, MARKS AND HONEYCOMB. FOUNDATIONS NOT MEETING THESE REQUIREMENTS SHALL BE REPLACED AT NO ADDITIONAL COST.
4. SHOP FABRICATE AND PRE-ASSEMBLE METAL PANEL, VERIFY IN FIELD DIMENSIONS PRIOR TO FABRICATION. ALL STEEL COMPONENTS TO BE EXTERIOR RATED AND SHALL EITHER BE GALVANIZED AND POWDERCOATED OR STAINLESS STEEL.
5. ALL EXPOSED HARDWARE TO BE TACK WELDED ON NON-EXPOSED SIDE FOR VANDAL RESISTANCE OR OTHER METHOD APPROVED BY ENGINEER.
6. THE WEATHERED STEEL SIGN DETAILS ARE PROVIDED TO FORM THE BASIS OF DESIGN AND ARE PROVIDED TO ILLUSTRATE THE AESTHETIC, PERFORMANCE AND FUNCTIONAL CHARACTERISTICS ONLY. THE DIMENSIONS SHOWN ARE PROVIDED TO QUANTIFY THE FORM AND OVERALL SCALE OF THE SIGN. THE DIMENSIONS PROVIDED DO NOT INDICATED THE PRECISE SIZES OF MEMBERS OR ASSEMBLIES.
7. THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEERING AND STRUCTURAL DESIGN AS WELL AS ALL OTHER REQUIRED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND OPERATIONAL WEATHERED STEEL SIGN THAT MATCHES THE DESIGN ILLUSTRATED. MODIFICATIONS TO THE FOUNDATION, ANCHORAGES/FASTENERS, STRUCTURAL MEMBERS AND OTHER COMPONENTS MAY BE NECESSARY.
8. THE WEATHERED STEEL SIGN MUST WITHSTAND 100 MPH WIND LOADS AND MEET ALL APPLICABLE BUILDING CODES, LAWS AND REGULATIONS. THE DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL AND MICHIGAN BUILDING CODES.
9. THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEERING, MATERIALS, EQUIPMENT, FABRICATION, TOOLS, LABOR AND INSTALLATION OF THE INCLUDING ALL ANCHORAGES/MOUNTING ACCESSORIES, FOUNDATIONS, FITTINGS, FASTENINGS, STRUCTURAL SUPPORTS, RIGGING AND FINISHES. ALL GATEWAY MONUMENT MATERIALS SHALL BE DESIGNED AND RATED FOR EXTERIOR ENVIRONMENTS.
10. PROVIDE 9GA. LADDER TYPE HORIZONTAL REINFORCING @ 16" O.C. IN CMU WALL, TYP.
11. SPLIT FACE BLOCK BY GRAND BLANC CEMENT PRODUCTS, COLOR: EARTHSTONE OR APPROVED EQUAL. PROVIDE SAMPLE TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.

1 WEATHERED STEEL SIGN

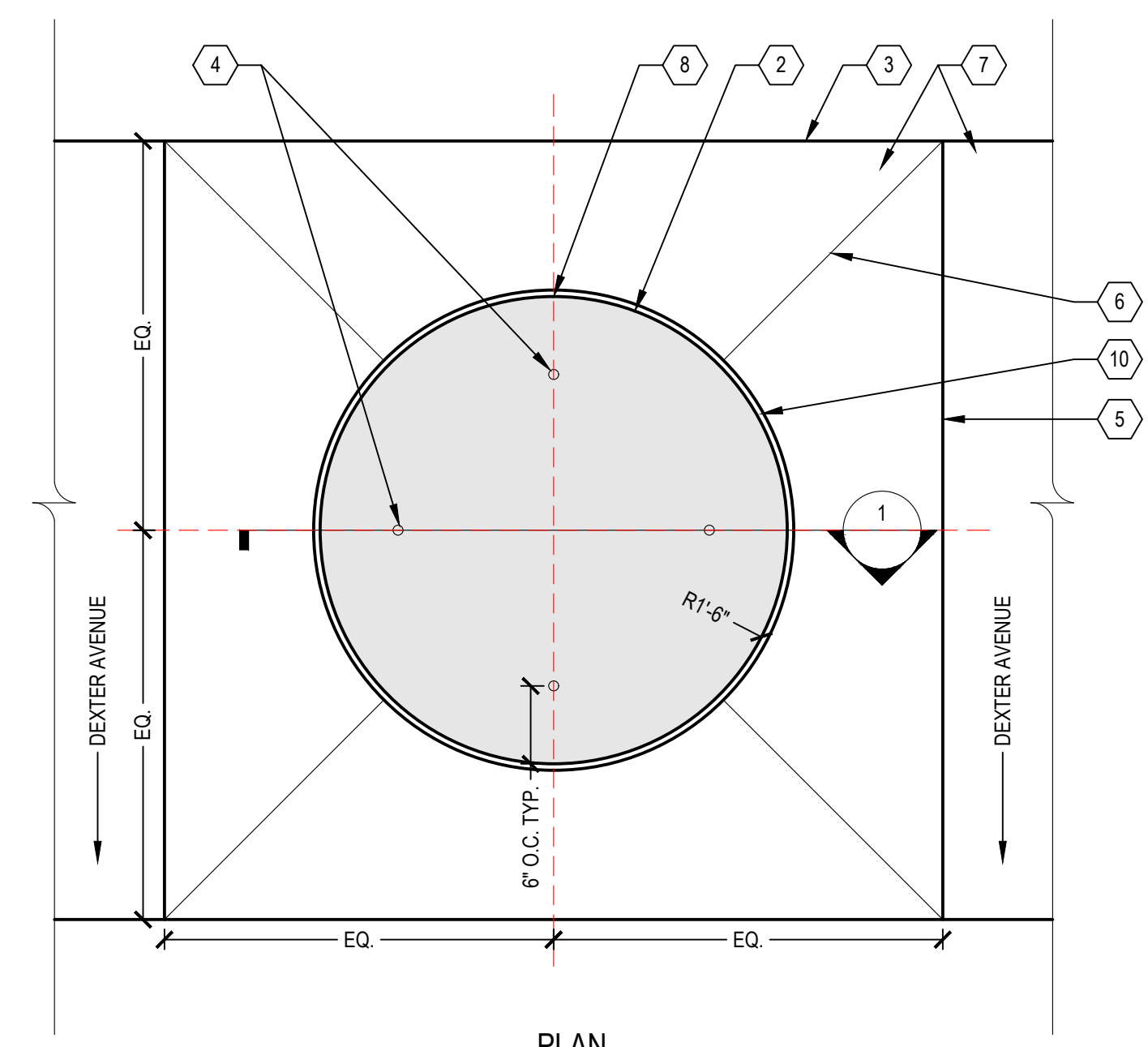
SCALE: NTS



PLAQUE ARTWORK



SECTION 1



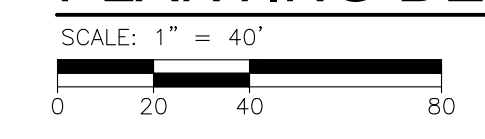
PLAN

- 1 FINISH GRADE
- 2 HISTORIC BRONZE PLAQUE, 36" Ø TYP. SEE PLAQUE ARTWORK AND PLANS FOR LOCATIONS
- 3 BACK OF SIDEWALK
- 4 3/8" THREADED STUDS ON BACK OF BRONZE PLAQUES, (4) MIN. PLAQUE SHALL BE MORTARED INTO HOLES IN NEW CONCRETE PAVEMENT, 2" MIN. EMBEDMENT
- 5 CONCRETE SIDEWALK JOINT, SEE PLANS
- 6 CONTROL JOINT FOR PLAQUE
- 7 ADJACENT CONCRETE SIDEWALK, SEE PLANS
- 8 TOP OF PLAQUES SHALL BE ALIGNED PERPENDICULAR TO THE BACK OF SIDEWALK
- 9 BOTTOM OF PLAQUES SHALL BE ALIGNED PERPENDICULAR TO DEXTER AVENUE
- 10 1/2" MORTAR JOINT

NOTES:

1. MOUNT PLAQUES PER MANUFACTURER SPECIFICATIONS AND WITH (4) EMBEDDED STUDS, MIN.
2. FACE OF HISTORIC BRONZE PLAQUES SHALL BE FLUSH WITH THE ADJACENT CONCRETE SIDEWALK PAVEMENT.
3. STUDS SHALL NOT BE VISIBLE AND ARE SHOWN IN PLAN FOR LOCATIONAL REFERENCE IN REAR ELEVATION 3' THIS SHEET.
4. SITUATE PLAQUES TO BE CENTERED WITHIN THE FLAG OF CONCRETE PAVEMENT AND PROVIDE SYMMETRICAL CONTROL JOINTS TO CORNERS OF FLAG AS SHOWN.
5. HISTORIC BRONZE PLAQUE ARTWORK TO BE PROVIDED TO MANUFACTURER FOR FABRICATION. SUBMIT COMPLETE SHOP DRAWINGS SHOWING FABRICATION, MATERIALS, INSTALLATION DETAILS, AND FINAL GRAPHICS FOR A COMPLETE HISTORIC BRONZE PLAQUE INSTALLATION TO THE ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO FABRICATION. SEE PLANS FOR THE CORRELATING BRONZE PLAQUE LOCATION.

PLANTING DETAILS



SCALE: 1" = 1'

HUMPHREY STREET

BURLINGAME STREET

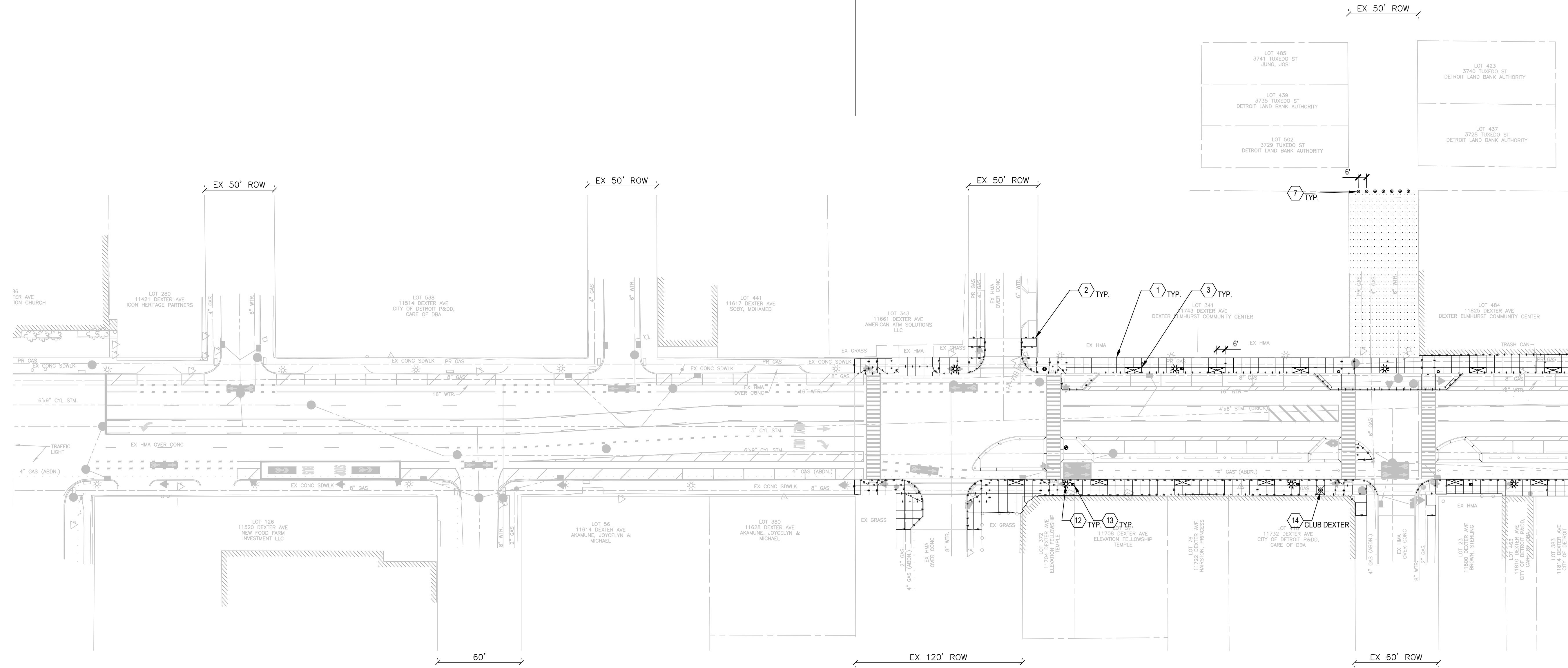
WEBB STREET

TUXEDO STREET

PROJECT NUMBER PW-7010  
DEXTER AVENUE STREETSCAPE  
POB (DEXTER AVE NON-LEGAL ALI)  
STA: 5+86.00

DEXTER AVENUE  
EX 100' ROW

DEXTER AVENUE  
EX 100' ROW



NOTES

- NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS IN ADVANCE OF CONSTRUCTION ACTIVITIES AND INSTALLATION OF SITE ELEMENTS.
- ALL DIMENSIONS ARE FROM BACK OF CURB, EDGE OF PAVEMENT, OR CENTER OF FIXTURE UNLESS OTHERWISE NOTED.
- THERE SHALL BE 1/2" SEALED EXPANSION JOINT AT ALL CURBSIDEWALK, BUILDINGSIDEWALK, LIGHT POLE, OR ANY OTHER FIXED OBJECTS I.E. EXISTING PAVEMENT, WALLS, POLES, FOUNDATIONS, JOINTING PLANS DO NOT SHOW EVERY REQUIRED SEALED EXPANSION JOINT.
- CONTROL JOINTS AND SEALED EXPANSION JOINTS IN CURBS TO ALIGN WITH CONTROL JOINTS AND SEALED EXPANSION JOINTS IN THE ADJACENT SIDEWALK/PAVEMENT.
- CONTROL JOINTS AND SEALED EXPANSION JOINTS AT DRIVEWAY AND ALLEY APPROACHES SHALL ALIGN WITH ADJACENT CURB RETURNS.
- CONTROL JOINTS AND SEALED EXPANSION JOINTS TO ALIGN WITH ADJACENT PAVEMENT, CURBS, WALLS, ETC UNLESS OTHERWISE NOTED ON THE PLANS. ALIGN JOINTS PERPENDICULAR TO PAVEMENT EDGE AND ALIGN WITH CENTER POINTS OF ARCS, AS SHOWN.
- PAVEMENT JOINTING IS INCIDENTAL TO THE PAVING AND MATERIALS PAY ITEMS.

JOINT SPACING

(JOINT SPACING SHALL BE PROVIDED AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS.)

	MAXIMUM SPACING
CONTROL JOINTS IN SIDEWALKS, CURBS, WALLS, ETC.	10'-0"
CONTROL JOINTS IN CONC. PAVEMENT FOR PARKING AREAS AND ROADS	15'-0"
SEALED EXPANSION JOINTS IN SIDEWALKS AND WALLS	60'-0"
SEALED EXPANSION JOINTS IN CURBS	120'-0"
SEALED EXPANSION JOINTS IN CONC. PAVEMENT FOR PARKING AREAS AND ROADS	120'-0"

LEGEND

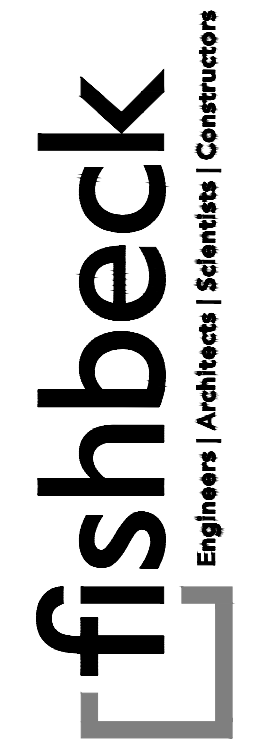
- 1 CONTROL JOINT
- 2 EXPANSION JOINT
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 BOLLARD, REMOVABLE
- 8 GATEWAY STRUCTURE
- 9 BUS BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 10 VERTICAL IDENTITY SIGN
- 11 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 12 LIGHT POLE
- 13 ELECTRIC HAND HOLE

LAWRENCE STREET

BURLINGAME STREET

WEBB STREET

TUXEDO STREET



SMITHGROUP  
500 GRISWOLD  
SUITE 1700  
DETROIT, MI 48266  
313.993.3600  
www.smithgroup.com



City of Detroit  
Dexter Ave Streetscape

REVISIONS

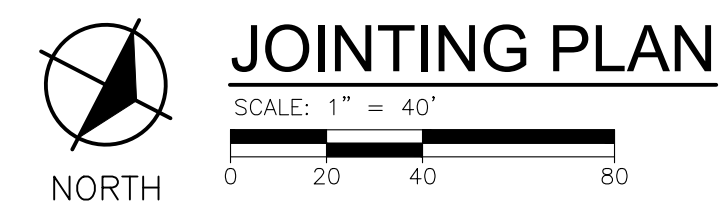
07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190  
SHEET NO.  
123  
LJ001

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCIPR-10817-006-006\CAD\USHEE\191190-006-JOINTING SHEETS.DWG LAYOUT: LJ01 DATE: 7/26/2023 TIME: 1:55:12 PM USER: KGIBBONS

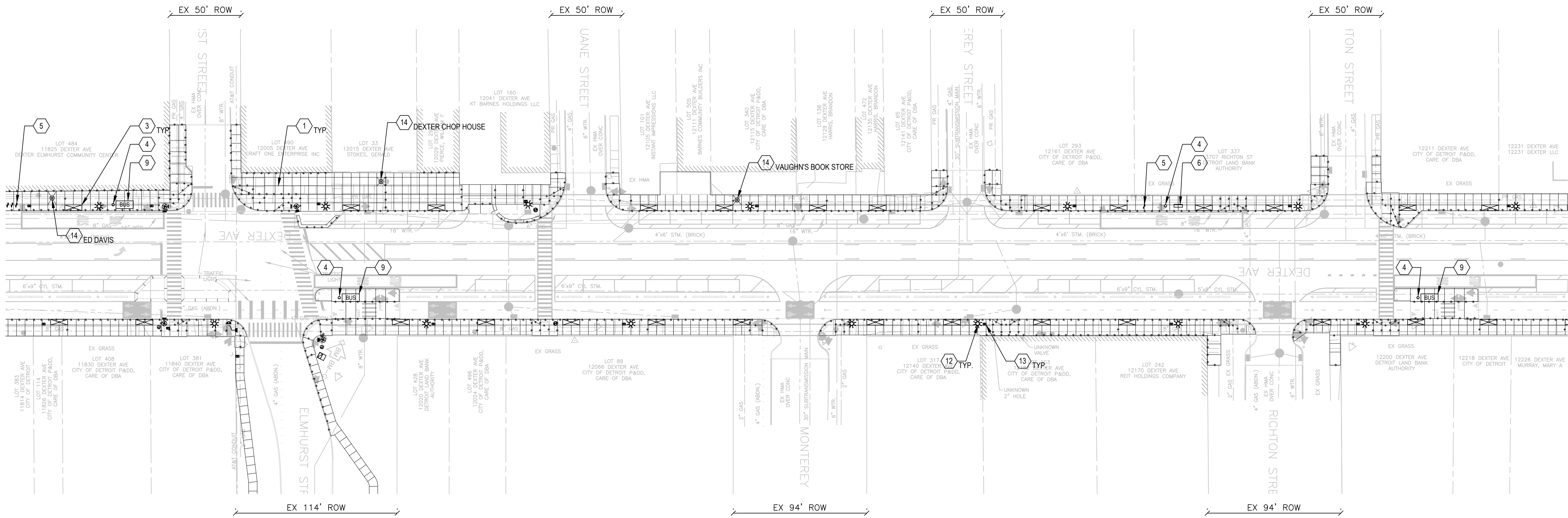




PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCGRP - 19119 - 006\CAD\USHEET\19119-006-JOINTING SHEETS.DWG LAYOUT: LJ02 DATE: 7/26/2023 TIME: 1:52:26 PM USER: KGIBBONS

DEXTER AVENUE

DEXTER AVENUE

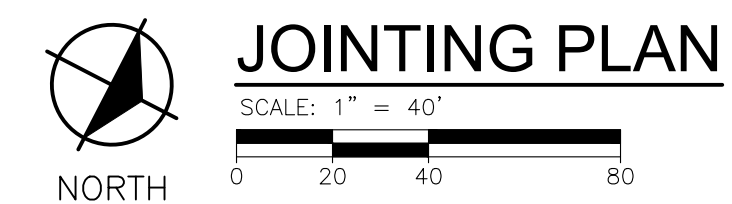


**NOTES**

- 1. SEE SHEET 123 - LJ001 FOR JOINTING PLAN NOTES.

**LEGEND**

- 1 ——— CONTROL JOINT
- 2 ——— EXPANSION JOINT
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 BOLLARD, REMOVABLE
- 8 GATEWAY STRUCTURE
- 9 BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 10 VERTICAL IDENTITY SIGN
- 11 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 12 LIGHT POLE
- 13 ELECTRIC HAND HOLE



**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
 Designer: KG  
 Reviewer: BC  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190

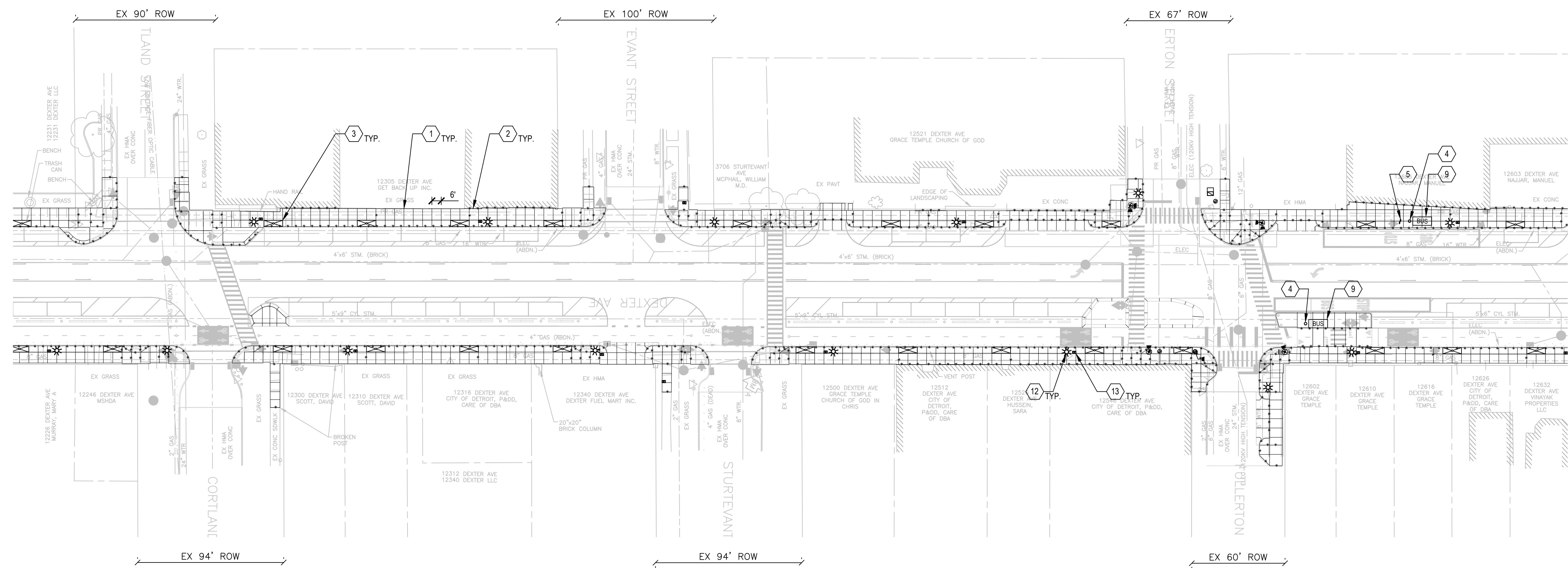
SHEET NO.  
124  
LJ002



NORTH



DEXTER AVENUE



**NOTES**

- 1. SEE SHEET 123-LJ001 FOR JOINTING PLAN NOTES.

**LEGEND**

- 1 ——— CONTROL JOINT
- 2 ——— EXPANSION JOINT
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 BOLLARD, REMOVABLE
- 8 GATEWAY STRUCTURE
- 9 BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 10 VERTICAL IDENTITY SIGN
- 11 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 12 LIGHT POLE
- 13 ELECTRIC HAND HOLE



NORTH

**JOINTING PLAN**

SCALE: 1" = 40'  
0 20 40 80

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
 Designer: KG  
 Reviewer: BC  
 Manager: KK3

PROJECT NO.  
191190

SHEET NO.  
125  
LJ003

DEXTER AVENUE

CORTLAND STREET

STURTEVANT AVENUE

FULLERTON AVENUE



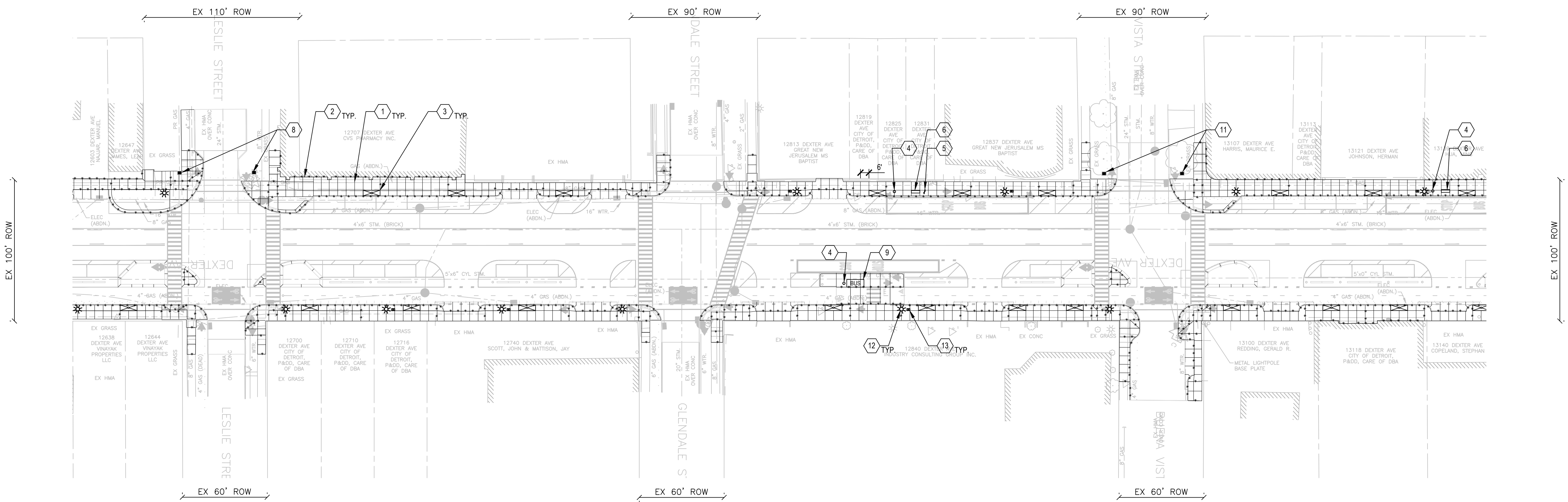
REVISIONS

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
 Designer: KG  
 Reviewer: BC  
 Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
191190  
 SHEET NO.  
126  
 LJ004

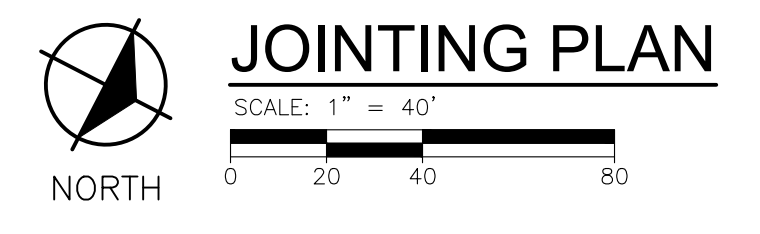


NOTES

- 1. SEE SHEET 123 - LJ001 FOR JOINING PLAN NOTES.

LEGEND

- 1 ——— CONTROL JOINT
- 2 ——— EXPANSION JOINT
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 BOLLARD, REMOVABLE
- 8 GATEWAY STRUCTURE
- 9 BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 10 VERTICAL IDENTITY SIGN
- 11 HISTORICAL BRONZE PLAQUE. SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 12 LIGHT POLE
- 13 ELECTRIC HAND HOLE



DEXTER AVENUE

DEXTER AVENUE

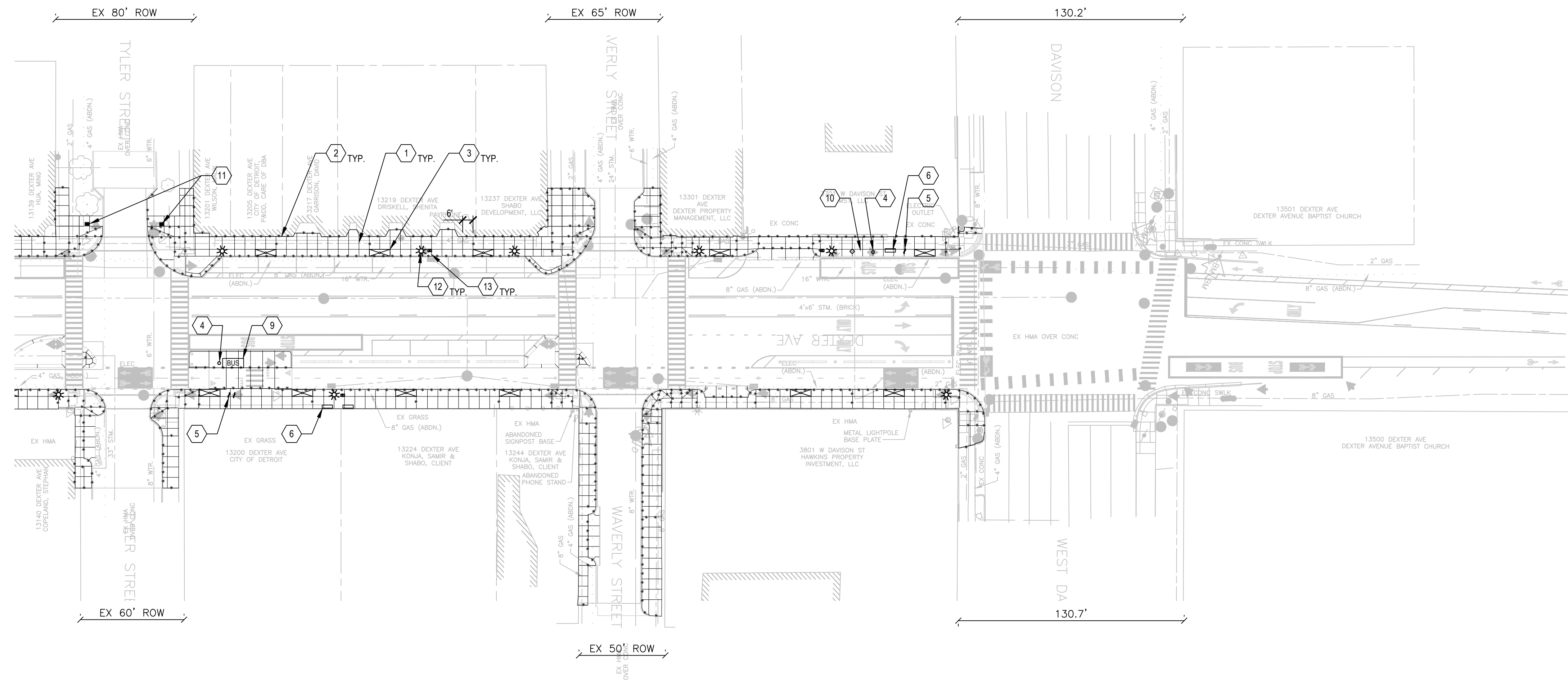
TYLER STREET

WAVERLY STREET

W DAVISON STREET



DEXTER AVENUE



**NOTES**

- 1. SEE SHEET 123-LJ001 FOR JOINTING PLAN NOTES.

**LEGEND**

- 1 ——— CONTROL JOINT
- 2 ——— EXPANSION JOINT
- 3 TREE GRATE AND FRAME, 4 FOOT X 12 FOOT
- 4 TRASH RECEPTACLE
- 5 BIKE RACK
- 6 BENCH, METAL
- 7 BOLLARD, REMOVABLE
- 8 GATEWAY STRUCTURE
- 9 BUS SHELTER, LOCATIONS TO BE CONFIRMED BY DDOT
- 10 VERTICAL IDENTITY SIGN
- 11 HISTORICAL BRONZE PLAQUE, SEE KEYNOTE FOR PLAQUE ARTWORK LOCATION
- 12 LIGHT POLE
- 13 ELECTRIC HAND HOLE



**JOINTING PLAN**

SCALE: 1" = 40'  
0 20 40 80

**REVISIONS**

07/21/2023	100% CD
06/09/2023	90% CD
04/28/2023	60% CD
03/10/2023	30% CD

Drawn By: KG  
Designer: KG  
Reviewer: BC  
Manager: KK3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
**191190**

SHEET NO.  
**127**  
**LJ005**

DEXTER AVENUE

PLOT INFO: C:\USERS\KGIBBONS\SMITHGROUP\COMPANIES\MCGRP - 191190 - 060\CAD\USHEETS\191190-005-JOINTING SHEETS.DWG LAYOUT: LJ05 DATE: 7/26/2023 TIME: 1:54:12 PM USER: KGIBBONS

TYLER STREET

WAVERLY STREET

W DAVISON STREET

**PUBLIC LIGHTING AUTHORITY OF DETROIT**  
 CITY OF DETROIT, WAYNE COUNTY, MICHIGAN  
**CONSTRUCTION PLANS FOR DEXTER STREET LIGHTING - 48206/48238**  
**DEXTER STREETSCAPE**  
**WEBB STREET TO DAVISON STREET**

**PROJECT DESCRIPTION**

THIS PROJECT CONSISTS OF UPGRADING THE STREET LIGHTING ALONG DEXTER STREET DUE TO DEXTER STREETSCAPE PROJECT. ROUND TAPERED ALUMINUM LIGHTING STANDARDS WILL BE INSTALLED WITH STREETSIDE AND SIDEWALK SIDE LUMINAIRES.

**CONSTRUCTION PLANS SHEET INDEX**

CO-01	COVER
LQ-01	LEGEND AND QUANTITIES
GI-01	GENERAL INFORMATION
RM-01 TO RM-04	REMOVAL PLANS
UG-01 TO UG-04	UNDERGROUND CONSTRUCTION PLANS
IN-01 TO IN-04	STREET LIGHTING CONSTRUCTION AND CABLING PLANS
DT-01	ROUND TAPERED ALUMINUM LIGHTING STANDARD DETAILS
DT-02	102W STREET LUMINAIRE DETAILS (2 SHEETS)
DT-03	76W STREET LUMINAIRE DETAILS (2 SHEETS)
DT-04	CABLE DETAILS (2 SHEETS)
DT-05	UNDERGROUND FED LIGHTING STANDARD BASE ELECTRICAL CONNECTIONS DETAILS
DT-06	LIGHTING AND RECEPTACLE CIRCUITS TYPICAL WIRING SCHEMA DETAILS (2 SHEETS)
DT-07	OVERHEAD CONSTRUCTION DETAILS
DT-08	STREET LIGHTING CONTROLLER DETAILS
DT-09	UNDERGROUND METERED SERVICE DETAILS
DT-10	IDENTIFICATION TAG DETAILS
DT-11	UNDERGROUND STRUCTURES DETAILS (2 SHEETS)

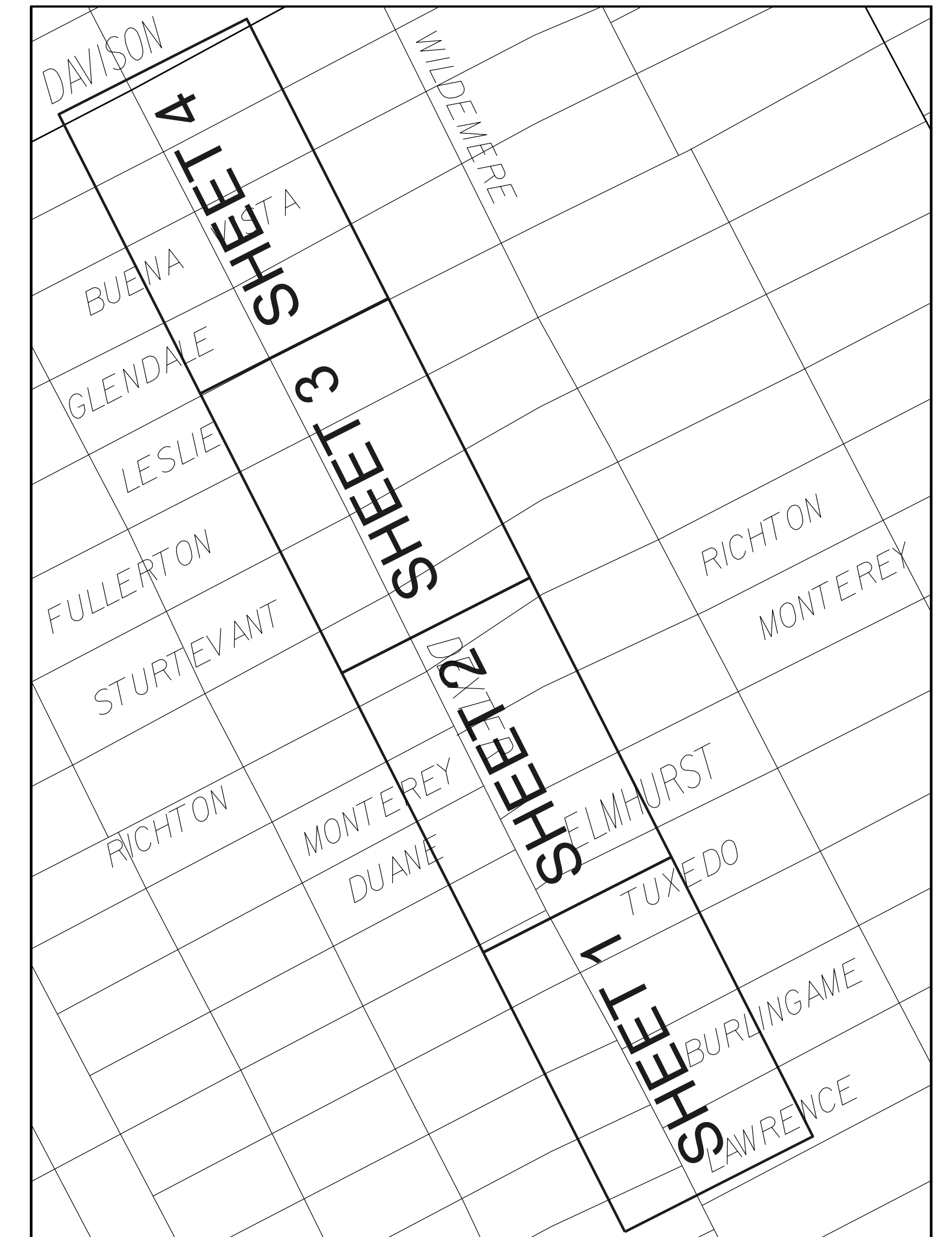
**COUNTY LOCATION MAP**



**PROJECT LOCATION MAP**



**PLAN SHEET INDEX**





**LEGENDS**

**GENERAL LEGEND**

- EGC Equipment Ground Conductor
- PLA Detroit Public Lighting Authority
- PLD Detroit Public Lighting Department
- EGC Equipment Ground Conductor
- CP Cable Pole
- Existing Lighting Controller (LC)
- Existing Wood Pole
- Existing Wood Pole with Bracket Arm and Luminaire
- Existing Lighting Standard
- Existing Double Fixture Lighting Standard
- Existing Strain Pole with Bracket Arm and Luminaire
- Existing Traffic Signal Pedestal
- Existing Polymer Handhole
- Existing Polymer Handhole
- Existing PLA Precast Concrete Round Handhole
- PLD Existing Polymer Handhole
- Existing Polymer Communications Handhole

**UNDERGROUND CONSTRUCTION AND REMOVAL PLANS**

- Remove Luminaire, Bracket Arm, Lighting Standard and Foundation
- Remove (2) luminaires, (2) Bracket Arms, Lighting Standard and Foundation
- Remove and Salvage Luminaire, Bracket Arm and Lighting Standard. Remove Lighting Standard Foundation.
- Remove Luminaire, Bracket Arm and Lighting Standard. Remove the Lighting Standard Foundation. If Necessary, Install a New Lighting Standard Foundation as Necessary.
- Install Tapered Aluminum Lighting Standard Foundation - STD-001 on DT-01 (Unless Otherwise Noted)
- Remove Wood Pole
- Remove Luminaire, Bracket Arm and Wood Pole
- Install Wood Pole
- Remove Strain Pole and Foundation
- Existing Conduit
- Existing Overhead Street Lighting Cable (Unless Otherwise Noted)
- Remove Underground Cable (3) 1/2" Phase Conductors for Street Lighting (Unless Otherwise Noted)
- Remove Overhead Cable (Unless Otherwise Noted)
- Install (2) 3" Direct Buried Conduits - DT-10 (Unless Otherwise Noted)
- Install (2) 3" Encased Conduits - DT-10 (Unless Otherwise Noted)
- Install (6) 3" Direct Buried Conduits - DT-10 (Unless Otherwise Noted)
- Install (6) 3" Directional Bored Conduits - DT-10 (Unless Otherwise Noted)
- Install Precast Concrete Square Handhole - UGD-004 on DT-10, UGD-005 on DT-11
- Install Precast Concrete Round Handhole - UGD-003 on DT-10, UGD-005 on DT-11
- Install Polymer Handhole 13" x 24" Structure with "LIGHTING" Legend - UGD-001 on DT-11
- Install Polymer Handhole 30" x 48" Structure with "LIGHTING" Legend - UGD-002 on DT-11
- Install Polymer Handhole 30" x 48" Structure with "UGD-1" Legend - UGD-002 on DT-11
- Install Ground Rod

**OVERHEAD CONSTRUCTION AND CABLING PLANS**

- Install Tapered Aluminum Lighting Standard Assembly with 2 (100W Street Luminaires) and 2 (80W Street Luminaires - STD-001 on DT-01, LUM-001 on DT-02, LUM-002 on DT-03, CAB-001 and CAB-002 on DT-04, DT-05, DT-06, DT-09)
- Wood Pole Installed Under This Project
- Existing Overhead Street Lighting Cable (Unless Otherwise Noted)
- Existing Underground Street Lighting Cable (Unless Otherwise Noted)
- Existing Conduit or Conduit Installed Under This Project
- Install 600V Underground Cable Aluminum (3) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Street Lighting Along With Copper (2) 1/2" 14 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Receptacles (Unless Otherwise Noted) on DT-04, DT-06, 1, DT-07
- Install 600V Underground Cable Aluminum (3) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Street Lighting Along With Copper (2) 1/2" 14 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Receptacles (Unless Otherwise Noted) on DT-04, DT-06, 1, DT-10
- Install 600V Underground Cable Aluminum (3) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Street Lighting Along With Copper (2) 1/2" 14 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Receptacles (Unless Otherwise Noted) on DT-04, DT-06, 1, DT-10
- Install 600V Aluminum Overhead Quadruplex Cable - Hackney (1) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC for Street Lighting (Unless Otherwise Noted)
- Remove Luminaire on Existing Bracket Arm and Wood Pole
- Install Luminaire on Existing Bracket Arm and Wood Pole
- Remove Luminaire and Install Luminaire on Existing Bracket Arm and Lighting Standard
- Remove Luminaire and Bracket Arm on Existing Wood Pole
- Install Luminaire and Bracket Arm on Existing Wood Pole
- Install Lighting Controller (LC) - DT-08, DT-10
- Remove Lighting Controller (LC)

**ELECTRICAL DIAGRAMS**

- Existing Lighting Controller Not Connected to Circuit
- Lighting Controller Connected to Circuit
- Lighting Standard Luminaire Not Connected to the Lighting Controller
- Lighting Standard Luminaire Connected to the Lighting Controller
- Pole Mounted Luminaire Not Connected to the Lighting Controller
- Pole Mounted Luminaire Connected to the Lighting Controller
- Overhead Street Lighting Cable Not Connected to the Lighting Controller
- 600V Aluminum Underground Cable Connected to the Lighting Controller (3) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC (Unless Otherwise Noted)
- 600V Aluminum Underground Cable Connected to the Lighting Controller (3) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC (Unless Otherwise Noted)
- 600V Aluminum Overhead Quadruplex Cable Connected to the Lighting Controller (1) 1/2" 4 AWG Phase Conductors and (1) 1/2" 4 AWG EGC (Unless Otherwise Noted)

**LIST OF PLA STOCK QUANTITIES**

MDOT CODE	DESCRIPTION	TOTAL	UOM
8197050	_Light Std, Tapered Aluminum	5	Ea
8197050	_Luminaire, 102W	5	Ea
8197050	_Luminaire, 76W	5	Ea

**LIST OF PAY ITEM QUANTITIES**

MDOT CODE	DESCRIPTION	SHEET	RM-01	RM-02	RM-03	RM-04	UG-01	UG-02	UG-03	UG-04	IN-01	IN-02	IN-03	IN-04	MISC	TOTAL	UOM
2040055	Sidewalk, Rem		--	--	--	--	--	--	--	--	--	--	--	--	4	4	Syd
8037010	_Sidewalk, Conc, 6 inch, Modified		--	--	--	--	--	--	--	--	--	--	--	--	30	30	Sft
8182196	Cable, Rem		1335	2750	3045	2320	--	--	--	--	--	--	--	--	--	9,450	Ft
8182053	Conduit, DB, 2, 3 inch		--	--	--	--	55	165	310	165	--	--	--	--	--	695	Ft
8190280	Light Std Fdn, Rem		--	--	--	--	9	25	23	22	--	--	--	--	--	79	Ea
8190306	Light Std Shaft, Rem and Salv		9	25	23	22	--	--	--	--	--	--	--	--	--	79	Ea
8190365	Luminaire, Rem and Salv		9	25	23	22	--	--	--	--	--	--	--	--	--	79	Ea
8182381	Wood Pole, Fit Up, Sec Cable Pole		--	--	--	--	--	--	2	--	--	--	--	--	--	2	Ea
8197001	_Cable, Equipment Grounding Wire, 1/C#4, Aluminum, Modified		--	--	--	--	--	--	--	--	790	2860	2935	2320	--	8,905	Ft
8197001	_Cable, Equipment Grounding Wire, 1/C#6, Copper, Modified		--	--	--	--	--	--	--	--	790	2860	2935	2320	--	8,905	Ft
8197001	_Cable, Equipment Grounding Wire, 1/C#8, Aluminum, Modified		--	--	--	--	--	--	--	--	60	180	250	190	--	680	Ft
8197001	_Cable, Equipment Grounding Wire, 1/C#14, Copper, Modified		--	--	--	--	--	--	--	--	60	180	250	190	--	680	Ft
8197001	_Cable, Sec, 600V, 2, 1/C#4, Aluminum, Modified		--	--	--	--	--	--	--	--	340	--	--	280	--	620	Ft
8197001	_Cable, Sec, 600V, 2, 1/C#6, Copper, Modified		--	--	--	--	--	--	--	--	340	--	--	280	--	620	Ft
8197001	_Cable, Sec, 600V, 2, 1/C#14, Copper, Modified		--	--	--	--	--	--	--	--	60	180	250	190	--	680	Ft
8197001	_Cable, Sec, 600V, 3, 1/C#4 Aluminum, Modified		--	--	--	--	--	--	--	--	450	2860	2935	2040	--	8,285	Ft
8197001	_Cable, Sec, 600V, 3, 1/C#6, Copper, Modified		--	--	--	--	--	--	--	--	450	2860	2935	2040	--	8,285	Ft
8197001	_Cable, Sec, 600V, 4, 1/C#8 Aluminum, Modified		--	--	--	--	--	--	--	--	60	180	250	190	--	680	Ft
8197001	_Cable, Sec, Quadruplex, Aluminum, 4 AWG		--	--	--	--	--	--	--	--	125	--	520	--	--	645	Ft
8197001	Conduit, DB, 6, 3 inch		--	--	--	--	690	2075	2095	1710	--	--	--	--	--	6,570	Ft
8197001	Conduit, Directional Bore, 6, 3 inch		--	--	--	--	160	530	510	475	--	--	--	--	--	1,675	Ft
8197050	Bracket Arm, Bolt On, Install		--	--	--	--	--	--	--	--	5	17	17	15	--	54	Ea
8197050	Bracket Arm, Bolt On, Rem and Salv		9	25	23	22	--	--	--	--	--	--	--	--	--	79	Ea
8197050	Bracket Arm, Clamp On, Install		--	--	--	--	--	--	--	--	5	17	17	15	--	54	Ea
8197050	_Hh, Polymer Conc, Modified		--	--	--	--	5	14	11	7	--	--	--	--	--	37	Ea
8197050	_Hh, Round, Modified		--	--	--	--	--	--	--	--	--	--	--	--	1	1	Ea
8197050	_Light Std Fdn, Modified		--	--	--	--	5	17	17	15	--	--	--	--	--	54	Ea
8197050	_Light Std, Tapered Aluminum, Install		--	--	--	--	--	--	--	--	5	17	17	15	--	54	Ea
8197050	_Luminaire, 102W, Install		--	--	--	--	--	--	--	--	5	17	17	15	--	54	Ea
8197050	_Luminaire, 76W, Install		--	--	--	--	--	--	--	--	5	17	17	15	--	54	Ea
8197050	_Photo Control, Lighting, Rem and Salv		1	--	--	--	--	--	--	--	--	--	--	--	--	1	Ea
8197050	_Mh, Polymer Conc, Data		--	--	--	--	6	17	15	16	--	--	--	--	--	54	Ea
8197050	_Tag, Pole		--	--	--	--	--	--	--	--	--	--	--	--	1	1	Ea
8197050	_Underground Metered Service		--	--	--	--	--	--	2	--	--	--	--	--	--	2	Ea
8197050	_Wood Pole, Cl 4, 40 foot		--	--	--	--	--	--	2	--	--	--	--	--	--	2	Ea
8200065	Fdn, Rem		2	--	--	--	--	--	--	--	--	--	--	--	--	2	Ea
8200145	Steel Pole, Rem		2	--	--	--	--	--	--	--	--	--	--	--	--	2	Ea

**GENERAL INFORMATION**

1. ALL MATERIAL AND EQUIPMENT FURNISHED BY THE CONTRACTOR MUST BE NEW AND MUST COMPLY WITH THE SPECIFICATIONS FOR THAT MATERIAL AND EQUIPMENT. THE OWNER SHALL HAVE THE RIGHT TO REJECT ANY EQUIPMENT WHICH DOES NOT MEET WITH SPECIFICATIONS.
2. CONSTRUCTION MUST BE PERFORMED BY QUALIFIED AND EXPERIENCED PERSONNEL. ALL WORK MUST MEET THE CURRENT STANDARDS AND PRACTICES OF THE PUBLIC LIGHTING AUTHORITY (PLA), THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT), THE NATIONAL ELECTRICAL CODE, THE ELECTRIC CODE OF THE CITY OF DETROIT AND THE NATIONAL ELECTRICAL SAFETY CODE.
3. THE CONTRACTOR MUST USE PUBLIC LIGHTING AUTHORITY (PLA) SPECIFICATIONS FOR THIS PROJECT.
4. THE CONSTRUCTION CONTRACTOR SHALL RETURN ALL SALVAGED PUBLIC LIGHTING AUTHORITY (PLA) EQUIPMENT TO THE PLA.

LOCATION: 2703 23RD STREET, DETROIT, MICHIGAN 48216  
 CONTACT: JOHN VERNON (PLA) AT (248) 330-9039  
 HOURS: MONDAY FRIDAY FROM 9:30 A.M. TO 3:30 P.M. MUST PROVIDE 24 HOURS NOTICE.

THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING ALL SALVAGED EQUIPMENT TO THE PLA YARD.

5. THE CONSTRUCTION CONTRACTOR SHALL RETURN ALL REMOVED DETROIT PUBLIC LIGHTING DEPARTMENT (PLD) EQUIPMENT TO THE PLD.  
 THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING DECOMMISSIONED EQUIPMENT TO THE PLD YARD.
6. ALL SHOP DRAWINGS MUST BE APPROVED BY THE PUBLIC LIGHTING AUTHORITY (PLA). CONTACT (313) 324-8290.
7. CALL MISS DIG AT 811 OR (800) 482-7171 A FULL THREE WORKING DAYS BEFORE TO ANY EXCAVATION FOR THE LOCATIONS OF UNDERGROUND UTILITIES.
8. THE CONTRACTOR IS TO NOTIFY DTE GAS AT (800) 477-4747 IF A PROTECTIVE COATED GAS MAIN IS EXPOSED OR DAMAGED.
9. THE CONTRACTOR IS TO NOTIFY DTE ELECTRIC AT (800) 477-4747 IF THE PROTECTIVE COATING OF ANY DTE ELECTRIC HIGH VOLTAGE UNDERGROUND LINE IS EXPOSED OR DAMAGED.

10. ALL EXISTING DETROIT PUBLIC LIGHTING DEPARTMENT (PLD) LIGHTING, PRIMARY TRANSMISSION, ETC., CIRCUITS MUST ALWAYS BE MAINTAINED IN AN OPERATIONAL CONDITION. NOTIFY THE PLD SYSTEM OPERATOR AT (313) 961-1364 48 HOURS BEFORE TO BEGINNING WORK ON PLD CIRCUITS AND KEEP THE OPERATOR INFORMED DAILY.

11. ALL VEHICLE DIRECTION, STREET NAME, AND PARKING SIGNS ON CITY OF DETROIT ROADS ARE THE PROPERTY OF THE CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS (DPW). THE CONTRACTOR WILL NOT REMOVE OR RELOCATE ANY VEHICLE DIRECTION, STREET NAME OR PARKING SIGNS UNLESS CITY OF DETROIT DPW GRANTS ADVANCE AUTHORIZATION. FOR ANY VEHICLE DIRECTION, STREET NAME OR PARKING SIGN ENCOUNTERED ON A STREET LIGHT POLE, THE CONTRACTOR WILL STOP WORK AND CALL THE DETROIT DPW SIGN SHOP AT (313) 628-4246 TO COORDINATE 72 HOURS PRIOR TO THE REMOVAL OR RELOCATION.

12. ANY PERMANENT SIGNS THAT ARE DAMAGED OR REMOVED MUST EITHER BE REINSTALLED, IF IN USABLE CONDITION, OR REPLACED WITH A UNIT THAT MEETS THE CURRENT SPECIFICATIONS OF THE SIGN'S MAINTAINING AGENCY.

13. REMOVAL, REPLACEMENT, EXCAVATION, AND BACKFILL RELATED TO PAVEMENT, SIDEWALKS AND CURBS MUST BE DONE ACCORDING TO THE CITY OF DETROIT, DEPARTMENT OF PUBLIC WORKS, CITY ENGINEERING DIVISION STANDARD SPECIFICATIONS FOR PAVING AND RELATED CONSTRUCTION OR THE SPECIFICATION OF THE AUTHORITY HAVING JURISDICTION.

14. WITHIN FIVE DAYS OF COMPLETING EACH SECTION OF THE UNDERGROUND OR OVERHEAD WORK, THE CONTRACTOR SHALL FURNISH TO THE PUBLIC LIGHTING AUTHORITY (PLA) AN EXACT RECORD, AS-BUILT DRAWINGS, OF ALL UNDERGROUND AND OVERHEAD WORK INSTALLED. THE AS-BUILT DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, STREET LIGHTING COMPONENTS, STRUCTURES, CONDUIT LENGTHS AND CABLE ROUTING INCLUDING THEIR LOCATIONS.

15. THE CONTRACT UNIT PRICE SHALL BE PAYMENT IN FULL FOR FOUNDATION REMOVAL AND BACKFILLING THE HOLE WITH GRANULAR MATERIAL. DISPOSAL OF WASTE EXCAVATED MATERIAL ALONG WITH REMOVING PAVEMENT, SIDEWALK, CURB AND GUTTER ALONG WITH ANY ASSOCIATED REPLACEMENT IS ALSO INCLUDED.

16. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS COVERING CONSTRUCTION OPERATIONS INCLUDING PERMITS FROM THE PUBLIC AUTHORITIES HAVING JURISDICTION OVER THE STREETS OR OTHER PUBLIC PROPERTIES IN WHICH THE WORK IS LOCATED AND THE IMPROVEMENT THEREIN. THE BIDDER SHALL ASCERTAIN THE AMOUNT OF ANY CHARGES REQUIRED BY SUCH AUTHORITIES AND WILL INCLUDE THE COST THEREOF IN THE BID PRICES.

17. THE CONTRACTOR MUST ASCERTAIN THE REQUIREMENTS OF THE PUBLIC AUTHORITIES HAVING JURISDICTION OVER THE STREETS OR OTHER PUBLIC PROPERTIES; OR THE PRIVATE PROPERTY OWNER AND INCLUDE IN HIS BID PRICE ALL EXISTING INFRASTRUCTURE RESTORATION COSTS INCLUDING SIDEWALKS, PAVEMENT AND LANDSCAPING TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION OR PROPERTY OWNER IN EACH CASE, WHICH MAY INCLUDE UPGRADES FROM THE EXISTING CONDITION.

18. THE CONTRACTOR ASSUMES ALL RISKS AND RESPONSIBILITIES BECAUSE OF EXISTING SOIL CONDITIONS AND MUST COMPLETE THE WORK IN WHATEVER MATERIAL AND UNDER WHATEVER GROUND CONDITIONS MAY BE ENCOUNTERED OR CREATED WITHOUT ADDITIONAL COST TO THE PUBLIC LIGHTING AUTHORITY (PLA).

19. THE LOCATIONS OF EXISTING UNDERGROUND OBSTRUCTIONS OR UTILITY FACILITIES ARE NOT NECESSARILY INDICATED ON THE PLANS. WHERE UTILITY FACILITIES ARE SHOWN, LOCATIONS ARE ONLY APPROXIMATIONS. CORRECTNESS OF EXACT UTILITY LOCATIONS IS NOT GUARANTEED. THE CONTRACTOR MUST EXERCISE CAUTION IN AVOIDING DAMAGE TO UTILITIES AND MUST NOTIFY THE UTILITIES THAT THEY ARE PROPOSING TO BREAK PAVEMENT OR EXCAVATE SO THAT THEY MAY PROVIDE THE CONTRACTOR WITH THE VERY LATEST LOCATION INFORMATION OF THEIR EXISTING FACILITIES.

20. HANDHOLE AND MANHOLE STRUCTURE LOCATIONS ARE SHOWN IN PROXIMITY TO WHERE THEY ARE TO BE INSTALLED. STRUCTURES ARE NOT TO BE INSTALLED IN ADA RAMPS. STRUCTURE INSTALLATION IN SIDEWALKS, ROADWAYS OR DRIVEWAYS IS TO BE AVOIDED WHERE POSSIBLE UNLESS CALLED FOR BY THE PLANS. STRUCTURES INSTALLED IN ROADWAYS OR DRIVEWAYS SHALL BE OF THE PRECAST CONCRETE TYPE. STRUCTURES SHALL NOT BE INSTALLED ON PRIVATE PROPERTY UNLESS CALLED FOR SPECIFICALLY BY THE PLANS WITH AN AUTHORIZED EASEMENT. FURTHER, STRUCTURES ARE TO BE INSTALLED CLEAR OF FIRE HYDRANTS, TREES, UTILITIES, AND ANY OTHER UNDERGROUND STRUCTURES.

21. NO SPLICING WILL BE ALLOWED BETWEEN THE CONTROL CABINET AND HANDHOLE/MANHOLE; HANDHOLE/MANHOLE TO HANDHOLE/MANHOLE; HANDHOLE/MANHOLE TO UNDERGROUND STREET LIGHTING STANDARD; AND HANDHOLE/MANHOLE TO CABLE RISER.

22. THE FOLLOWING WIRE COLOR CODING IS TO BE USED FOR THE UNDERGROUND STREET LIGHTING AND RECEPTACLES ON THIS PROJECT: BLACK (A PHASE); RED (B PHASE); WHITE (NEUTRAL); GREEN (GROUND).

23. THE FOLLOWING CABLE IDENTIFICATION IS TO BE USED FOR GROUNDED OVERHEAD TRIPLEX AND QUADRUPLX ON THIS PROJECT: NO RIB (A PHASE); ONE RIB (NEUTRAL); TWO RIBS (B PHASE); BARE MESSENGER (EQUIPMENT GROUNDING CONDUCTOR OR EGC).

THE CABLE IDENTIFICATION FOR INSTANCES OF EXISTING UNGROUNDED OVERHEAD DUPLEX OR TRIPLEX ALONG WITH CONNECTIONS TO THE EXISTING UNGROUNDED OVERHEAD ON THIS PROJECT: NO RIB (A PHASE); ONE RIB (B PHASE); BARE MESSENGER (NEUTRAL).

IF ANY EXISTING OVERHEAD CABLE DOES NOT MATCH EITHER OF THESE SCENARIOS, CONTACT THE PROJECT ENGINEER BEFORE MAKING ANY CONNECTIONS.

24. THE CONTRACTOR MUST CORE INTO PRECAST HANDHOLES AND MANHOLES.

25. THE CONTRACTOR IS TO TRIM EXISTING TREES TO PROVIDE A CLEAR 10 FOOT RADIUS AROUND EACH LUMINAIRE.

26. ALL UNDERGROUND STREET LIGHTING STANDARD LOCATIONS ARE TO BE INSTALLED WITH THE CENTER 3 FEET BACK OF CURB FACE (BOC) OR SIDEWALK EDGE UNLESS OTHERWISE INDICATED ON THE PLANS.

27. THE CONTRACTOR IS TO CALL THE DETROIT PUBLIC LIGHTING DEPARTMENT (PLD) SENIOR SYSTEM OPERATOR AT (313) 267-4151 FOR ANY PLD FACILITIES COORDINATION. COORDINATION INCLUDES BEING GRANTED ACCESS TO PLD MANHOLES AND HANDHOLES; GAINING LOCKOUT/TAGOUT PROTECTION FOR WORKING ON PLD EQUIPMENT; ANY OTHER WORK INVOLVING PLD FACILITIES.

28. THE CONTRACTOR IS TO CALL (313) 224-1610 FOR COORDINATING ANY DETROIT DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL WORK.

29. LUMINAIRE WOOD POLE MOUNTING HEIGHT SHALL BE AT 30 FEET UNLESS THE PLANS SPECIFY OTHERWISE.

30. REPLACEMENT LUMINAIRE LOCATIONS SHALL BE CONNECTED TO THE SAME CIRCUIT PHASE OF THE LUMINAIRE LOCATION THEY ARE REPLACING. NEW LUMINAIRE LOCATIONS WILL BE CONNECTED TO THE CIRCUIT PHASE CALLED FOR ON THE PLAN SHEETS.

31. INSTALL SHORTING CAPS ON ALL LUMINAIRES UNLESS OTHERWISE DIRECTED BY THE PLANS.

32. REFER TO THE STREETScape PAVING PLANS FOR UNDERGROUND UTILITY LOCATIONS.

33. CONTRACTOR TO VERIFY MANUFACTURER MODEL NUMBERS WITH THE PUBLIC LIGHTING AUTHORITY (PLA) FOR ALL LUMINAIRES AND LIGHTING STANDARDS PRIOR TO PLACING AN ORDER FOR THESE ITEMS.

34. CONTRACTOR TO COORDINATE ALL HANDHOLE AND MANHOLE INSTALLATION LOCATIONS IN THIS PROJECT WITH ROADWAY CONSTRUCTION PROJECT ENGINEER PRIOR TO INSTALLATION.



MATCHLINE "1-2" SHEET RM-02



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-224-6200 office  
 313-638-2855 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
**REMOVALS PLAN**  
 SHEET 1 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

**WADE TRIM**

DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET  
**RM-01**  
 P.O. NO. 1845 JOB NO. 142833  
 PAGE 4 OF 31

MATCHLINE "1-2" SHEET RM-01

MATCHLINE "2-3" SHEET RM-03



**NOTE:**  
 FIBRE OPTIC CABLE TO BE  
 REMOVED BY CROWN CASTLE



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-5290 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
**REMOVALS PLAN**  
 SHEET 2 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

**WADE TRIM**

DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

**SHEET**  
**RM-02**

P.O. NO. 1845 JOB NO. 142833  
 PAGE 5 OF 31

MATCHLINE "2-3" SHEET RM-02

MATCHLINE "3-4" SHEET RM-03



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-6200 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON

**REMOVALS PLAN**  
 SHEET 3 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

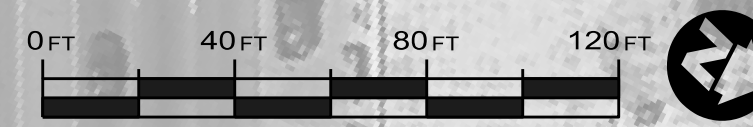
**WADE TRIM**

DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET  
**RM-03**

P.O. NO. 1845 JOB NO. 142833  
 PAGE 6 OF 31

MATCHLINE "3-4" SHEET RM-03



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-5290 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON

**REMOVALS PLAN**  
 SHEET 4 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

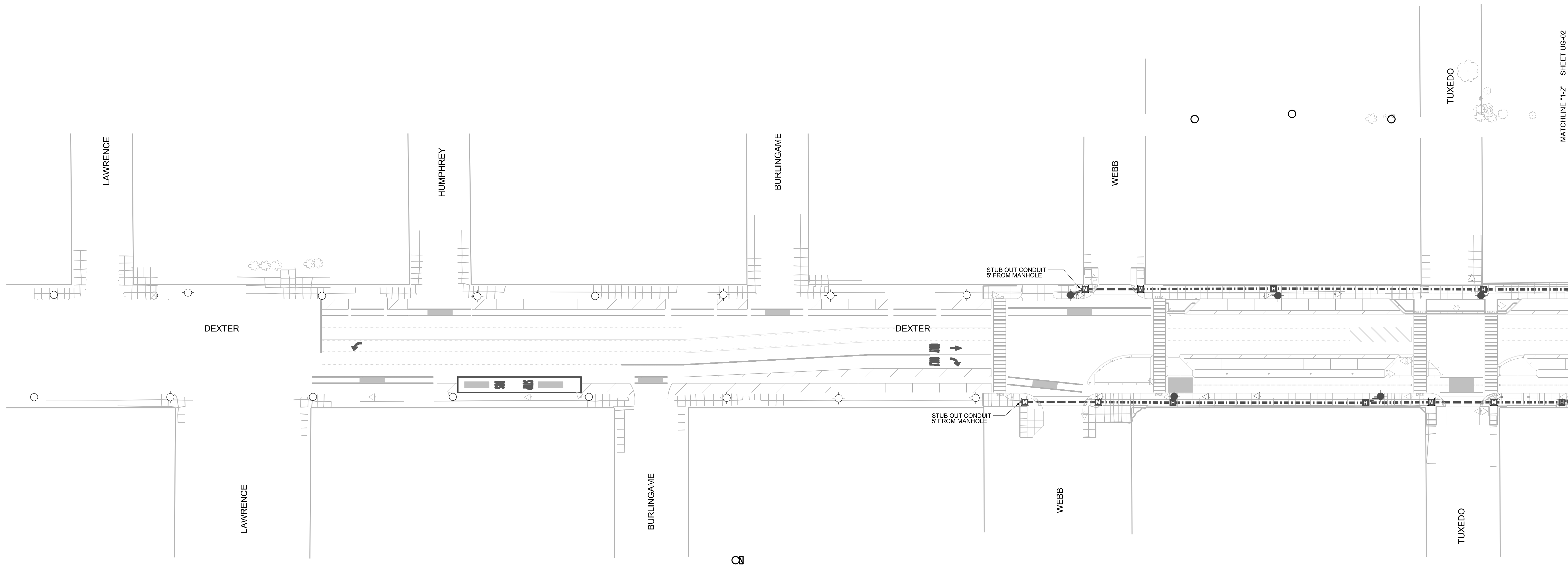
**Consulting Engineering Associates, Inc.**

**WADE TRIM**

DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET  
**RM-04**

P.O. NO. 1845 JOB NO. 142833  
 PAGE 7 OF 31



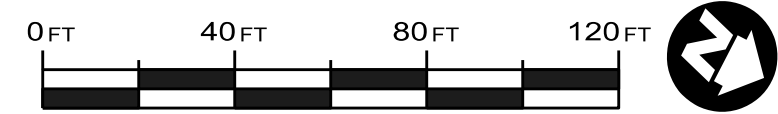
**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-4280 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
**DESIGN ENGINEERING FOR STREET LIGHTING**  
**DEXTER FROM WEBB TO DAVISON**  
 UNDERGROUND CONSTRUCTION PLAN  
 SHEET 1 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

**WADE TRIM**

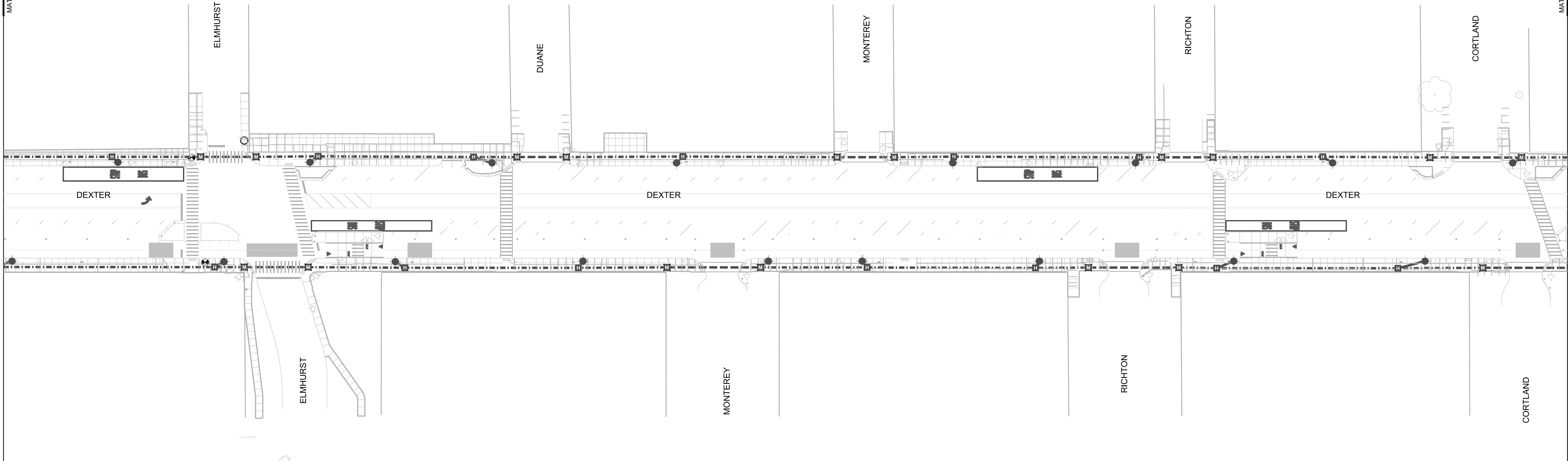


DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>UG-01</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 8 OF 31	

MATCHLINE "1-2" SHEET UG-01

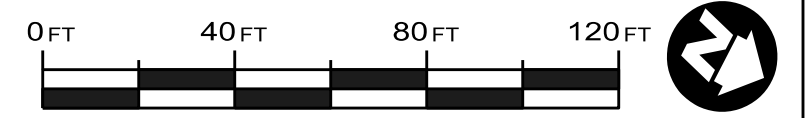
MATCHLINE "2-3" SHEET UG-03



Public Lighting Authority  
of Detroit  
400 Monroe, Suite 485  
Detroit, Michigan 48226  
313-324-6280 office  
313-638-2805 fax  
pladetroit.org

PROJECT DESCRIPTION  
**DESIGN ENGINEERING FOR STREET LIGHTING  
DEXTER FROM WEBB TO DAVISON**  
UNDERGROUND CONSTRUCTION PLAN  
SHEET 2 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
16580 Wyoming  
Detroit, Michigan 48221  
313-341-5797  
Consulting  
Engineering  
Associates, Inc. **WADE  
TRIM**



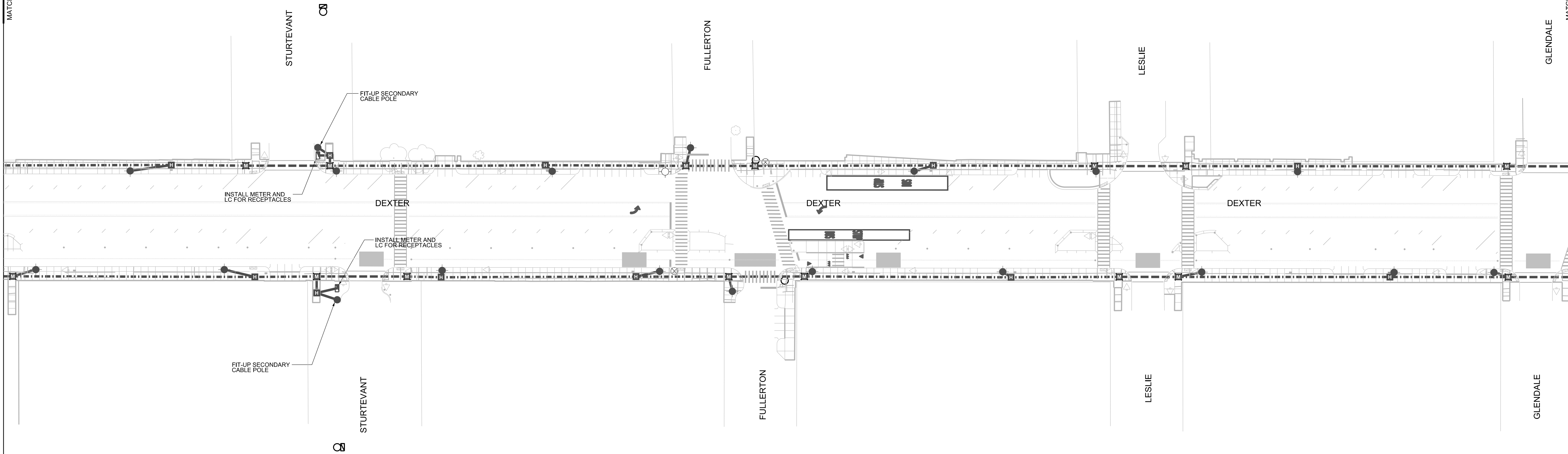
DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>UG-02</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 9 OF 31	



MATCHLINE "2-3" SHEET UG-02

MATCHLINE "3-4" SHEET UG-04



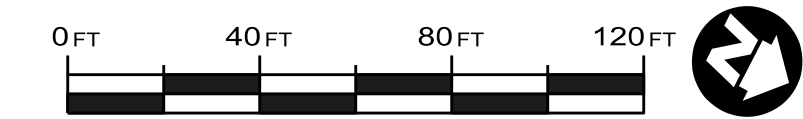
**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-4290 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
**DESIGN ENGINEERING FOR STREET LIGHTING**  
**DEXTER FROM WEBB TO DAVISON**  
 UNDERGROUND CONSTRUCTION PLAN  
 SHEET 3 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

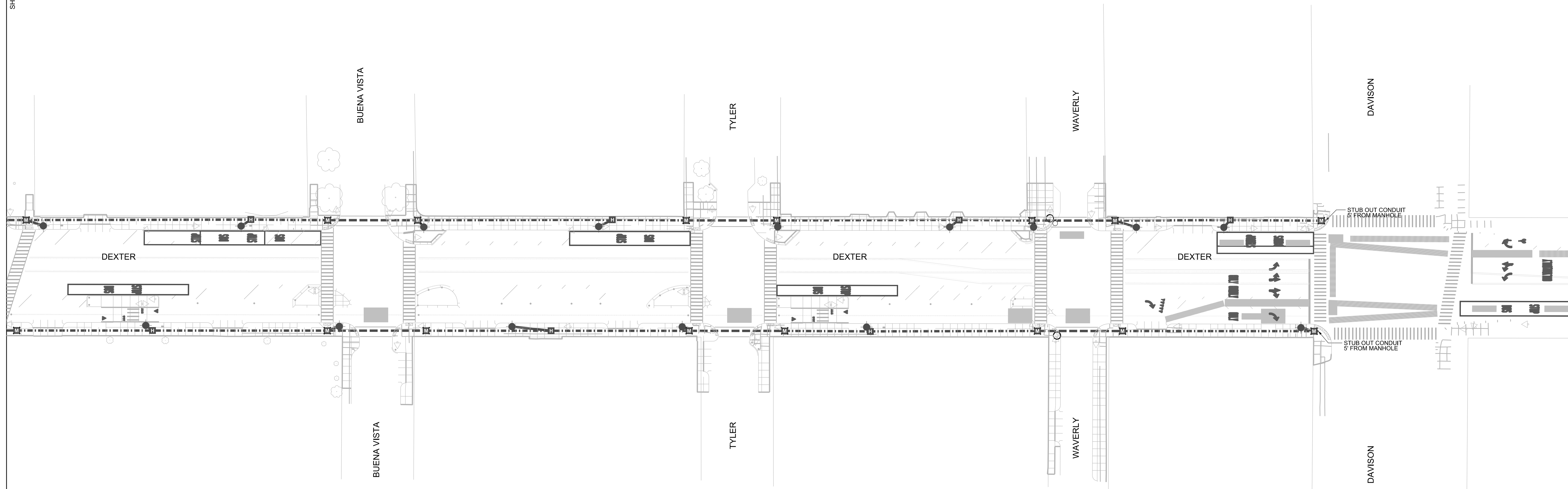
**Consulting Engineering Associates, Inc.**

**WADE TRIM**



DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>UG-03</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 10 OF 31	



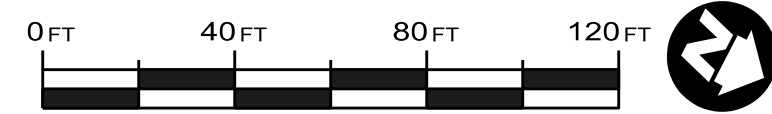
**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-4290 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
 UNDERGROUND CONSTRUCTION PLAN  
 SHEET 4 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

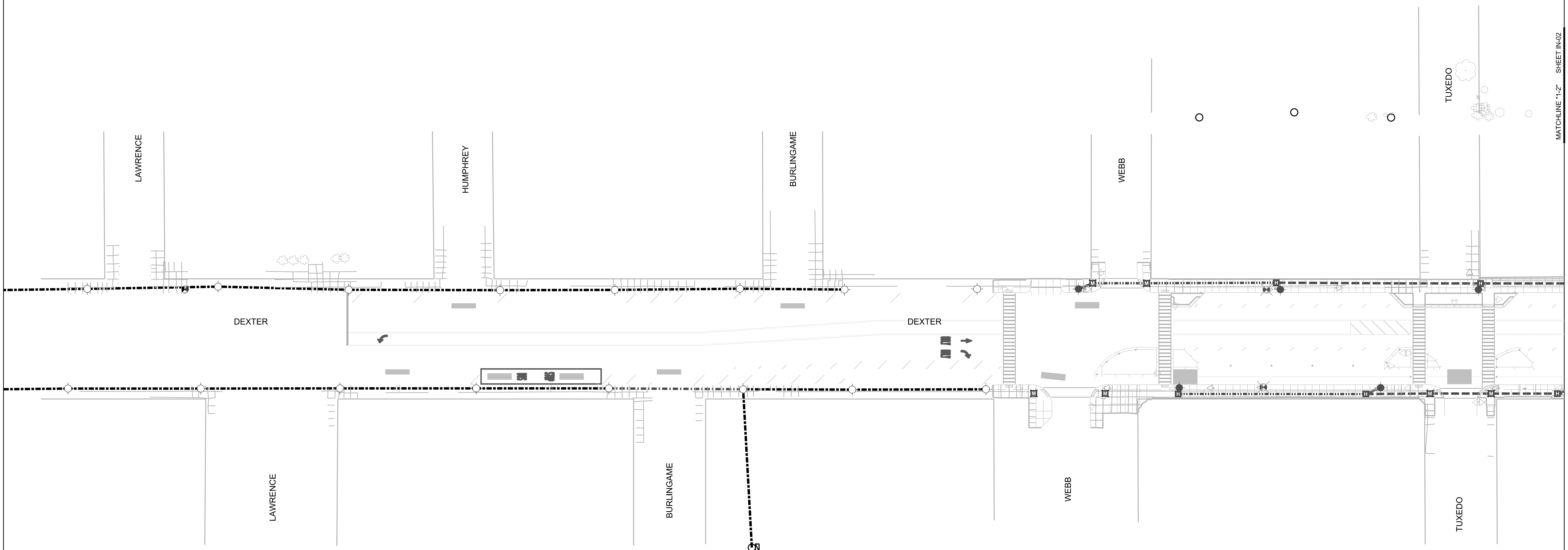
**WADE TRIM**



DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET  
**UG-04**

P.O. NO. 1845 JOB NO. 142833  
 PAGE 11 OF 31



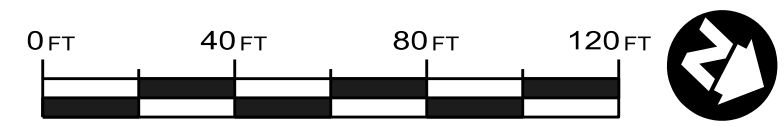
**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-4280 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
 OVERHEAD INSTALLATION AND CABLING PLANS  
 SHEET 1 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757

**Consulting Engineering Associates, Inc.**

**WADE TRIM**

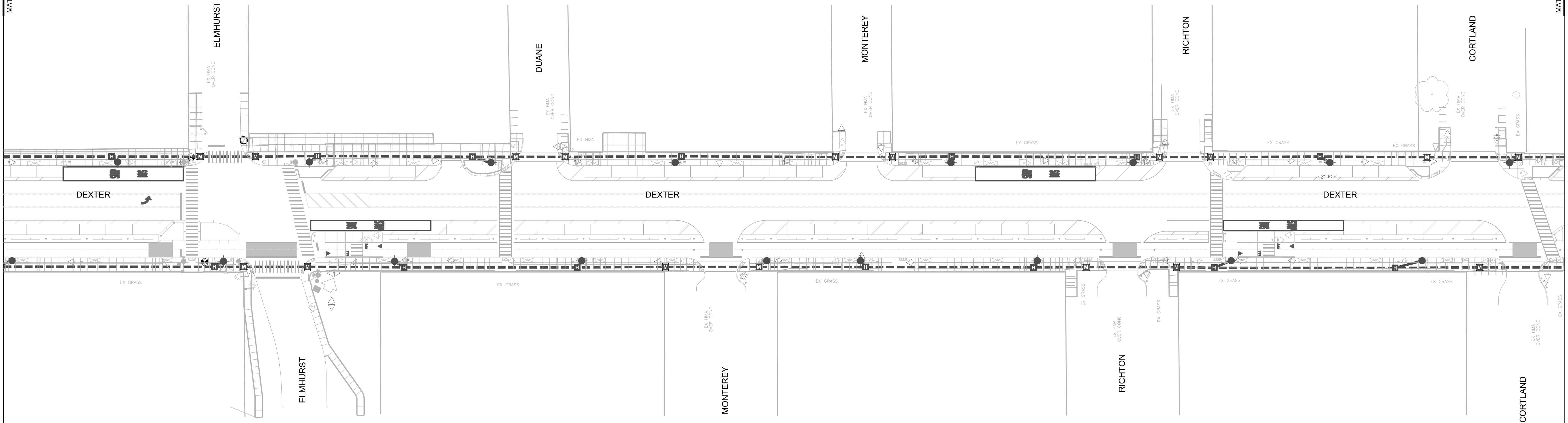


DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>IN-01</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 12 OF 31	

MATCHLINE "1-2" SHEET IN-01

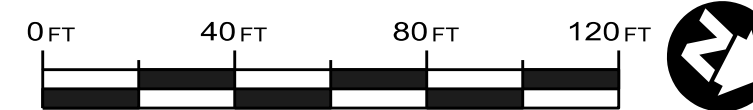
MATCHLINE "2-3" SHEET IN-03



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-5290 office  
 313-638-2805 fax  
 pladetroit.org

**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
 OVERHEAD INSTALLATION AND CABLING PLANS  
 SHEET 2 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757



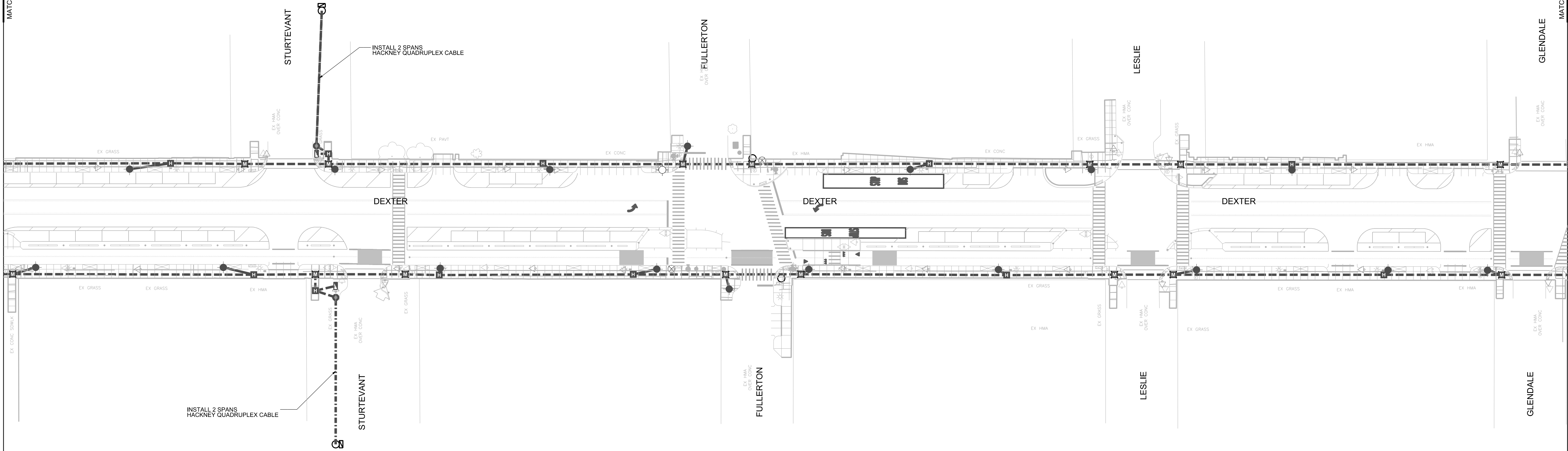
DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET  
**IN-02**

P.O. NO. 1845 JOB NO. 142833  
 PAGE 13 OF 31

MATCHLINE "2-3" SHEET IN-02

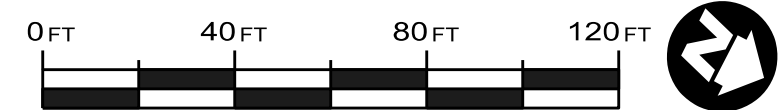
MATCHLINE "3-4" SHEET IN-04



**Public Lighting Authority of Detroit**  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-324-4280 office  
 313-638-2805 fax  
 pladetroit.org

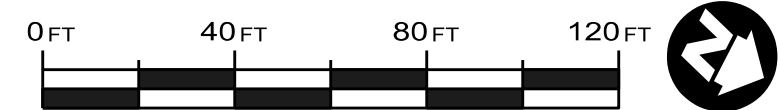
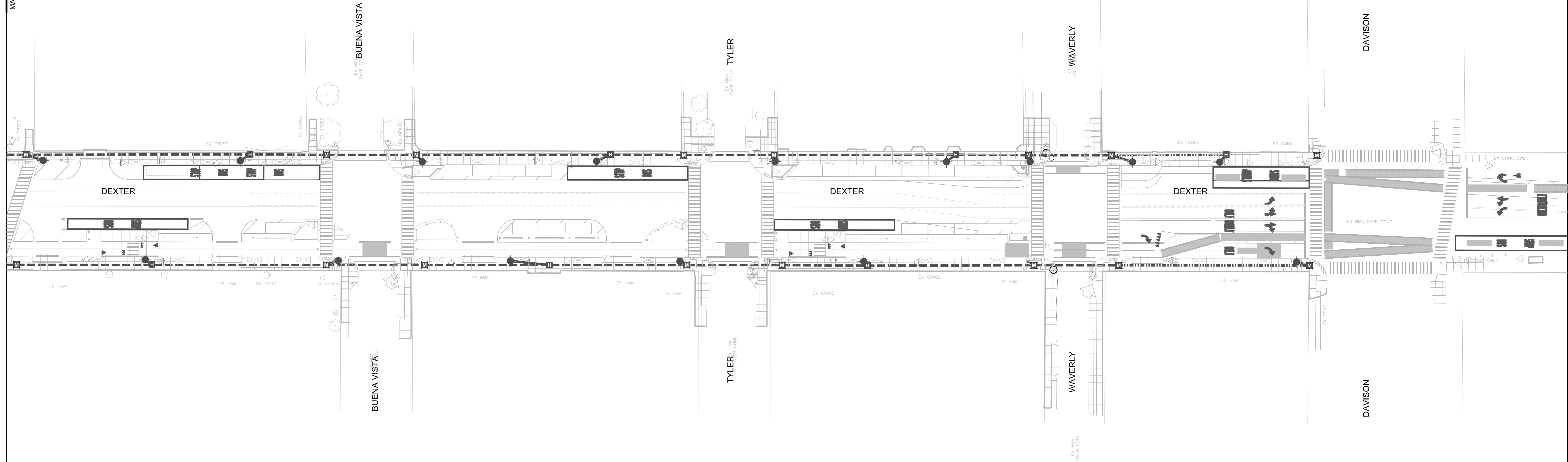
**PROJECT DESCRIPTION**  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
 OVERHEAD INSTALLATION AND CABLING PLANS  
 SHEET 3 OF 4

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-341-5757



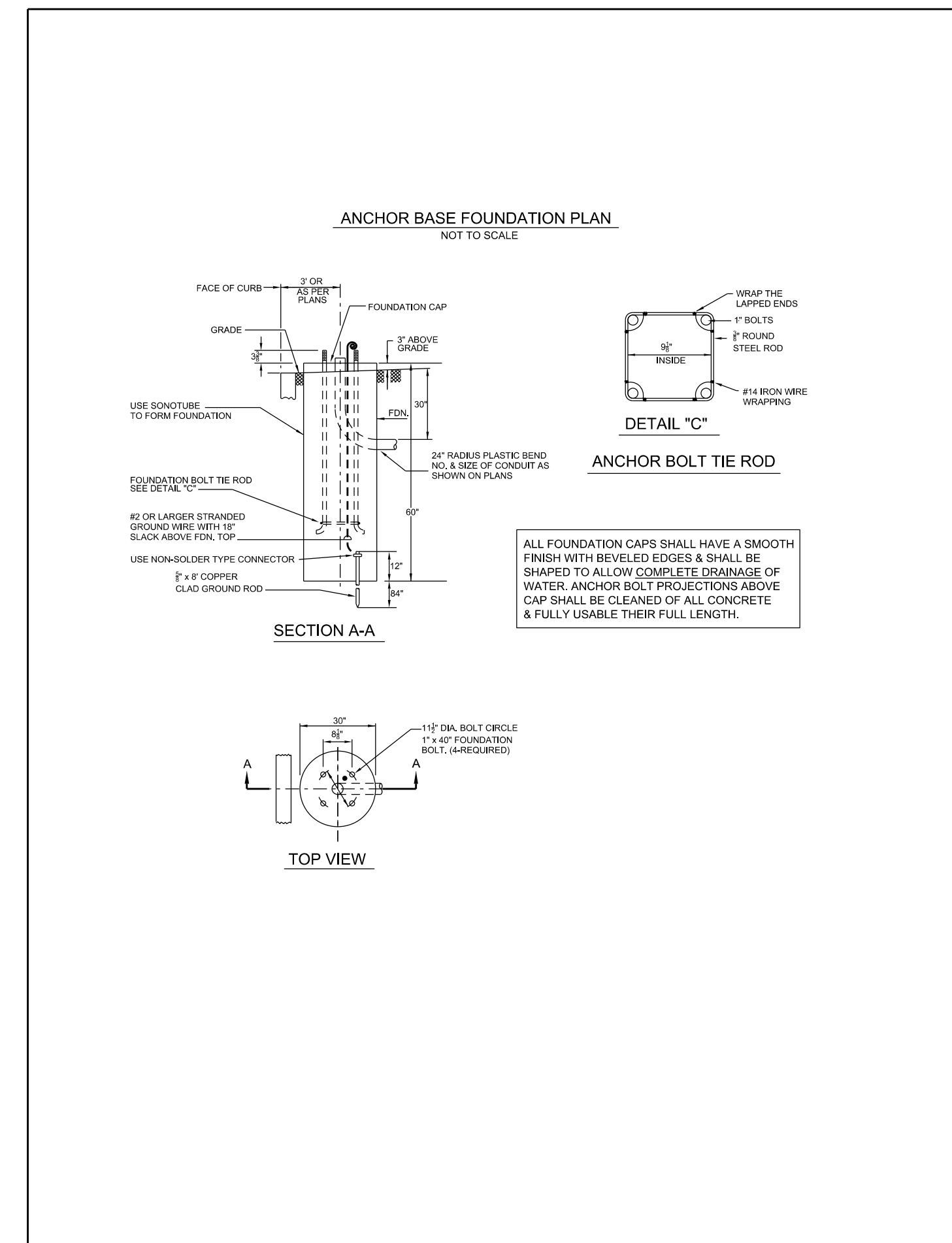
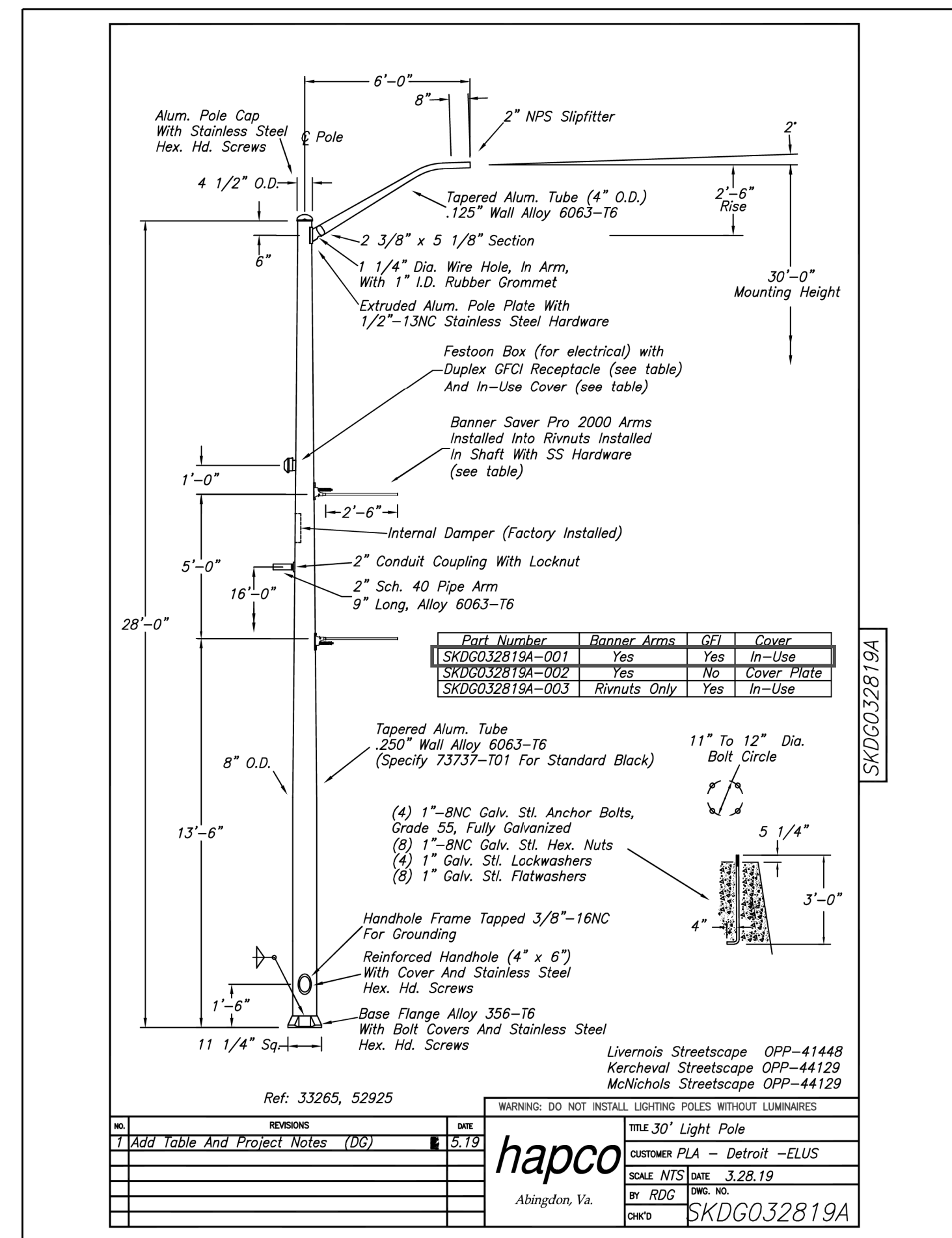
DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>IN-03</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 14 OF 31	

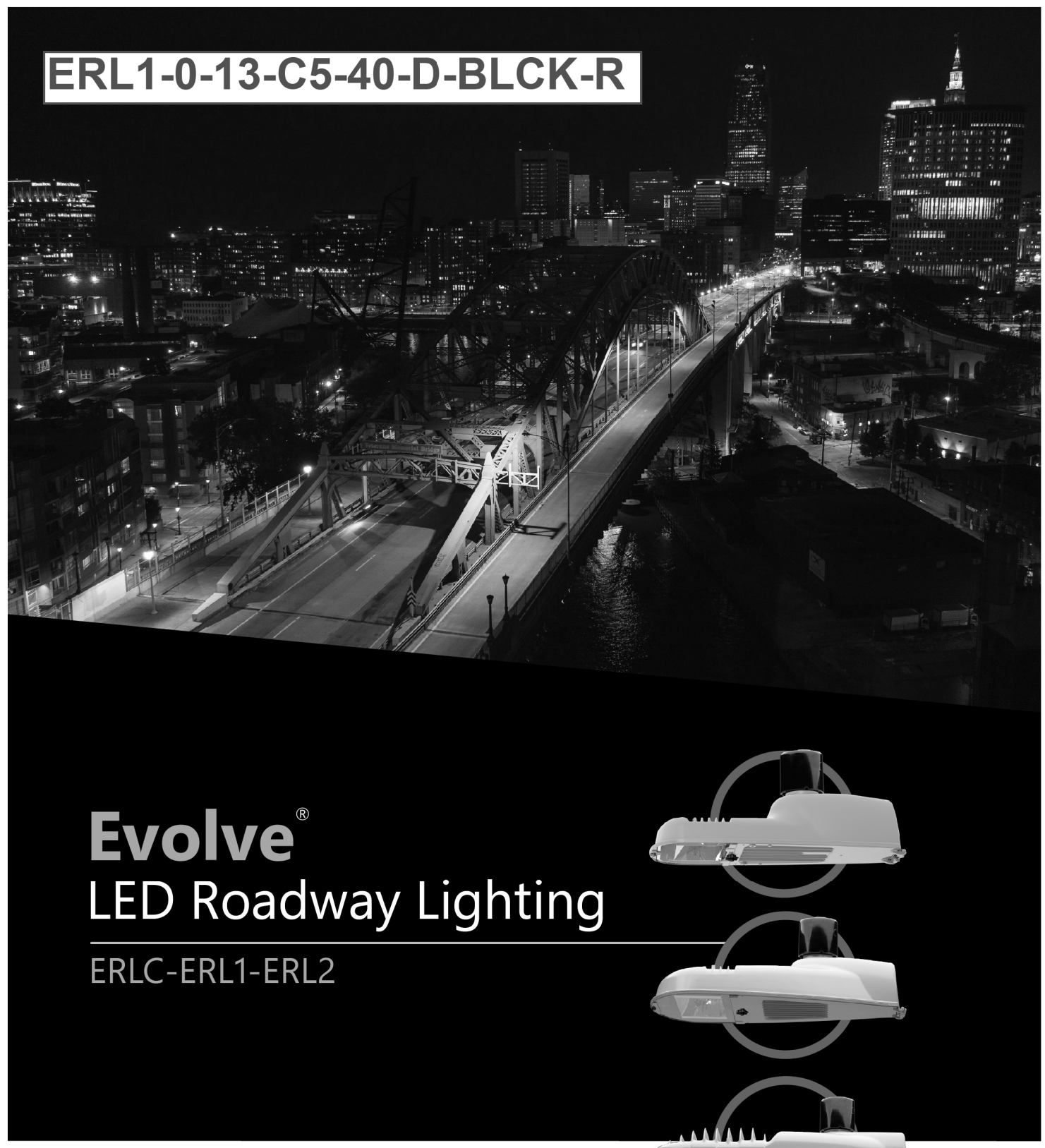


DATE:	PROJECT REVISION DESCRIPTIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

# STD-001 ROUND TAPERED DETAILS

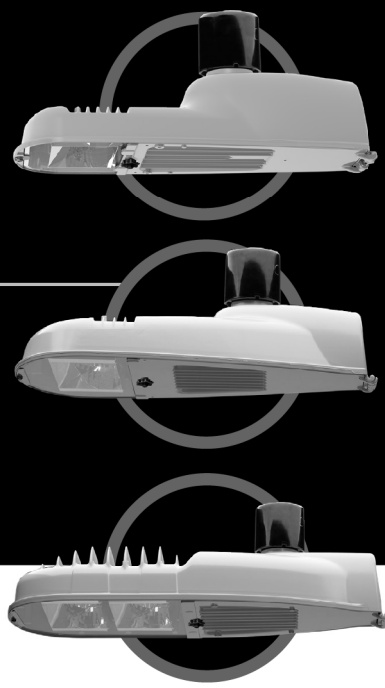


ERL1-0-13-C5-40-D-BLCK-R



## Evolve® LED Roadway Lighting

ERLC-ERL1-ERL2



**GE current**  
a Daintree company

## LUM-001 LUMINAIRE DETAILS

### Evolve® LED Roadway Lighting Cobra Head (ERL1)

Spec Tables

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V/27V	347V/480V	5000K/4000K	3000K	2700K
02	AS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS	2000	1900	1900	15*	N/A	B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B0-U0-G1	B0-U0-G1	B0-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
03	AS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS	3000	2900	2800	22	26	B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
04	AS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS	4000	3900	3800	29	33	B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
05	AS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS	5000	4900	4700	37	39	B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
06	AS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS	6000	5800	5700	46	49	B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
07	AS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	CS	7000	6700	6200	50	51	B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
08	AS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	8000	7600	7100	59		B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
09	AS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	9000	8600	8000	68		B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2

NOTE: \* 120-240V only

For additional information on ERL1 IES files, please click one of the following links:

[Non-Shielded](#) [Shielded](#)

**GE current**  
a Daintree company

### Evolve® LED Roadway Lighting Cobra Head (ERL1)



Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

The **Evolve®** LED Roadway ERL1 Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

#### CONSTRUCTION

**Housing:** Aluminum die cast enclosure casting integral heat sink for maximum heat transfer  
**Lens:** Impact resistant tempered glass  
Corrosion resistant powder paint,  $\geq 2.0$  mil thickness  
**Paint:** (RAL & custom colors available)  
Standard = Black, Dark Bronze, Gray, White  
Optional = Coastal Finish  
**Weight:** 12.4 lbs (5.6 kgs)

#### OPTICAL SYSTEM

**Lumens:** 2,000 - 15,700  
**Distribution:** Type II, III, IV, Type II Narrow and Type II Enhanced Backlight  
**Efficacy:** 111-140 LPW  
**CCT:** 2700K, 3000K, 4000K and 5000K  
**CR:**  $\geq 70$

#### ELECTRICAL

**Input Voltage:** 120-277V or 347-480V  
**Input Frequency:** 50/60Hz  
**Power Factor:**  $\geq 90\%$  at rated watts  
**Total Harmonic Distortion:**  $\leq 20\%$  at rated watts

#### SURGE PROTECTION\*

Standard	Optional
<input type="checkbox"/> 10kV/5kA	<input type="checkbox"/> Secondary 10kV/5kA (R Option) or <input type="checkbox"/> Secondary 20kV/10kA (T Option)

\*Per ANSI C136.2-2018

#### LUMEN MAINTENANCE

Projected Lxx per IES TM-21-11 at 25°C

Lumen Codes	Distributions	LXX(10K) @ Hours		
		25,000 HR	50,000 HR	60,000 HR
02, 03, 04, 05, 06	AS, BS, CS, DS, ES	L96	L94	L93
07, 08	AS, BS, CS, DS, ES	L99	L98	L98
09	AS, BS, CS, DS, ES	L98	L97	L96
10	AS, BS, CS, DS, ES	L94	L87	L84
11	AS, BS, CS, DS, ES	L93	L85	L82
12	AS, BS, CS, DS, ES	L96	L95	L94
13	AS, BS, CS, DS, ES	L96	L94	L93
14	AS, BS, CS, DS, ES	L95	L92	L91
15	AS, BS, CS, DS, ES	L93	L88	L86
16	AS, BS, CS, DS, ES	L91	L85	L83

Note: Projected Lxx based on LM80 ( $\geq 10,000$  hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements.

#### RATINGS

**Operating Temperature:** -40°C to 50°C  
**Vibration:** 3G per ANSI C136.31-2018  
**LM-79:** Testing in accordance with IES Standards

#### CONTROLS

**Dimming:** Standard-0-10V   
Optional-DALI (Option U)

**Sensors:** Photo Electric Sensors (PE) available  
LightGrid Compatible

#### WARRANTY

5 Year (Standard)  10 Year (Optional)



**GE current**  
a Daintree company

### Evolve® LED Roadway Lighting Cobra Head (ERL1)

Spec Tables

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V/27V	347V/480V	5000K/4000K	3000K	2700K
10	AS						B2-U0-G2	B2-U0-G2	B2-U0-G1
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	10000	9600	8900	76		B2-U0-G2	B2-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B3-U0-G3	B2-U0-G2	B2-U0-G2
11	AS						B3-U0-G3	B3-U0-G3	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	11000	10500	9700	87		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B1-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
12	AS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	12000	11500	11100	93		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
13	AS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	13000	12400	12000	102		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
14	AS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS	14000	13400	13000	110		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
15	AS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	CS	15000	14400	13900	121		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
16	AS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B3-U0-G3	B3-U0-G3	B2-U0-G2
	CS	15700	15000	14600	129		B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3

For additional information on ERL1 IES files, please click one of the following links:

[Non-Shielded](#) [Shielded](#)

**GE current**  
a Daintree company

### Evolve® LED Roadway Lighting Cobra Head (ERL1)

Spec Tables

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

PROD. ID	VOLTAGE	LUMENS	DISTRIBUTION <sup>3</sup>	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS
<b>E = Evolve</b>	0 = 120-277V <sup>2</sup>	02 <sup>2</sup>	AS = Type II Narrow	27 = 2700K <sup>4</sup>	D = 7-Pin Receptacle	GRAY = Gray	A = 4 Bolt Shiftbase <sup>5</sup>
<b>R = Roadway</b>	H = 347-480V <sup>1</sup>	03	B5 = Type II	30 = 3000K <sup>4</sup>	D = 7-Pin Receptacle with Shoring Cap	BLCK = Black	B = Tether
<b>L = Local</b>	1 = 120	04	CS = Type III	40 = 4000K	E = 7-Pin Receptacle with non-dimming Long Life PE	DKBZ = Dark Bronze	F = Fusing
<b>I = Single Module</b>	2 = 200	05	D5 = Type IV	50 = 5000K	Note: 0-10V standard	WHITE = White	G = Internal Bubble Level
	3 = 240	06	ES = Type II Enhanced Back Light				I = Optional IP66 Optical Enclosure
	4 = 277	07					L = Tool-Less Entry
	8 = 120-240V <sup>11</sup>	08					R = Secondary 10kV/5kA SPD
	5 = 480	09					T = Secondary 20kV/10kA SPD
	D = 347	10					U = DALI Programmable <sup>12</sup>
		11					V1 = Field Adjustable Module <sup>13</sup>
		12					X = Single Pack <sup>14</sup>
		13					Y = Coastal Finish <sup>15</sup>
		14					XXX = Special Options
		15					
		16					

<sup>1</sup> Fusing requires discrete voltage

<sup>2</sup> 02 Lumen Level. Voltage options 1, 2, 3 and 8 only

<sup>3</sup> Normal IES Type and listing subject to typical variation, individual units may differ

<sup>4</sup> Select 2700K or 3000K CCT for DA approved units

<sup>5</sup> Lead time varies, contact factory

<sup>6</sup> Compatible with LightGrid

<sup>7</sup> Not available in 347V/480V or 347-480V for Lumen Output Levels 08-16

<sup>8</sup> Option provides single pack box per fixture. Standard packaging = 23 units per MagnaPack Container

<sup>9</sup> Recommended for installations within 750 feet from coast. Lead time varies, check with factory

<sup>10</sup> Not available with DALI "U" option

<sup>11</sup> Only available with 02 Lumen Code

#### SUGGESTED HID REPLACEMENT

Approximately 2,000-3,000 lumens to replace 50W-70W HPS Cobra-head

Approximately 4,000-5,000 lumens to replace 100W HPS Cobra-head

Approximately 7,000-9,000 lumens to replace 150W HPS Cobra-head

Approximately 9,000-12,000 lumens to replace 200W HPS Cobra-head

Approximately 12,000-16,000 lumens to replace 250W HPS Cobra-head

Note: actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

**GE current**  
a Daintree company

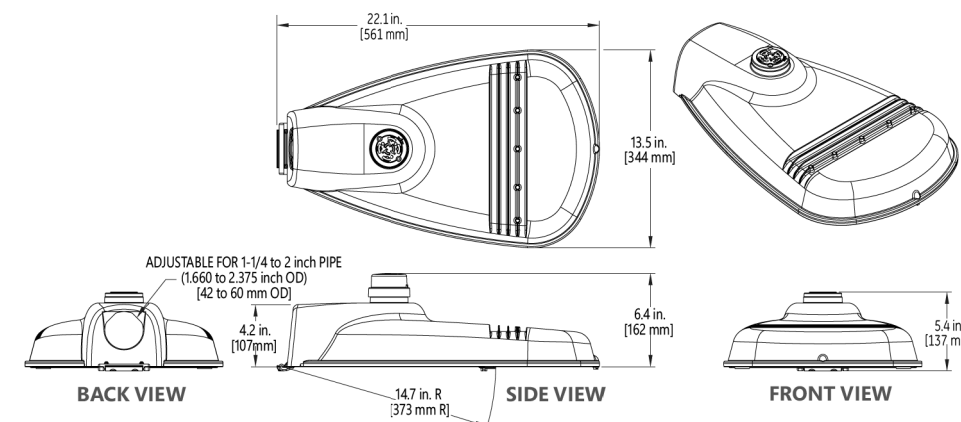
### Evolve® LED Roadway Lighting Cobra Head (ERL1)

Photometric Plots



**Evolve® LED Roadway Lighting**  
Cobra Head (ERL1)  
Mounting & Accessories

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_



**MOUNTING**

- Adjustable for 1.25 to 2 in. nominal mounting pipe (1.660 to 2.375 inch OD)
- Integral diecast mounting pipe stop
- Slipfitter with +/- 5 degrees of leveling adjustment

**EFFECTIVE PROJECTED AREA**

- 0.5 sq ft max (0.046 sq m)

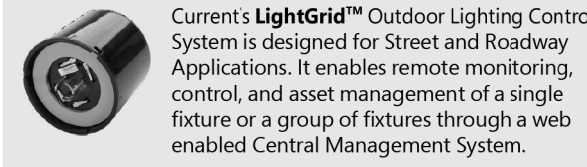
**WEIGHT**

- 12.4 lbs (5.6 kgs)

**ACCESSORIES**

SAP Number	Part Number	Description
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE 480V
28299	PECOTL	Long Life PE 120-277V
93147530	PECHTL	Long Life PE 347-480V
73251	SCCL-PECTL	Shorting Cap

**NETWORK LIGHTING CONTROLS**



**GE current**  
a Daintree company

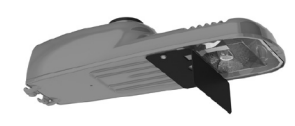
**Evolve® LED Cobra Head Shield Guide**

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

**HOUSE SIDE SHIELDS**

**ERLC SHIELDS**

Product Code	Description
93110037	ELSHS-ERLC-BLCK
93110038	ELSHS-ERLC-GRAY



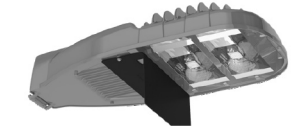
**ERL1 SHIELDS**

Product Code	Description
93024487	ELSHS-ERL1-BLCK
93046386	ELSHS-ERL1-GRAY
93068998	ELSHS-ERL1-DKBZ



**ERL2 SHIELDS**

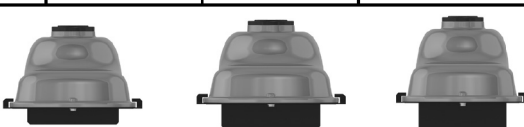
Product Code	Description
93070722	ELSHS-ERL2-BLCK
93085564	ELSHS-ERL2-GRAY
93096747	ELSHS-ERL2-DKBZ



**STREET SIDE SHIELDS**


**ERLC SHIELDS**

Product Code	Description
93132372	ELSFs-ERLC-BLCK-10
93132373	ELSFs-ERLC-BLCK-15
93134760	ELSFs-ERLC-BLCK-20



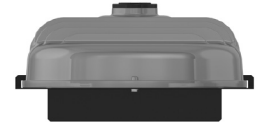
**ERL1 SHIELDS**

Product Code	Description
93092595	ELSFs-ERL1-BLCK-10
93108740	ELSFs-ERL1-GRAY-10
93092906	ELSFs-ERL1-BLCK-15
93105144	ELSFs-ERL1-GRAY-15
93088130	ELSFs-ERL1-BLCK-20
93088131	ELSFs-ERL1-GRAY-20



**ERL2 SHIELDS**

Product Code	Description
93132955	ELSFs-ERL2-BLCK-20
93132986	ELSFs-ERL2-GRAY-20



**GE current**  
a Daintree company

**Evolve® LED Cobra Head Shield Guide**

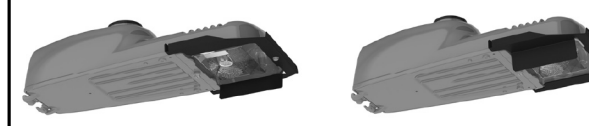
Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

**SIDE SHIELDS (L&R)**

Shipped as a kit - L & R can be used independently


**ERLC SHIELDS**

Product Code	Description
93132374	ELs-ERLC-LEFTRIGHTSIDEKIT-BLCK-10



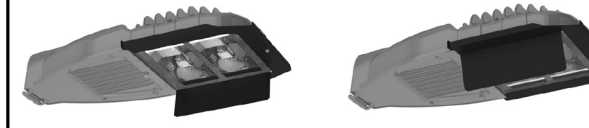
**ERL1 SHIELDS**

Product Code	Description
93118695	ELs-ERL1H-LEFTRIGHTSIDEKIT-BLCK-10



**ERL2 SHIELDS**

Product Code	Description
93132989	ELs-ERL2-LEFTRIGHTSIDEKIT-BLCK-10



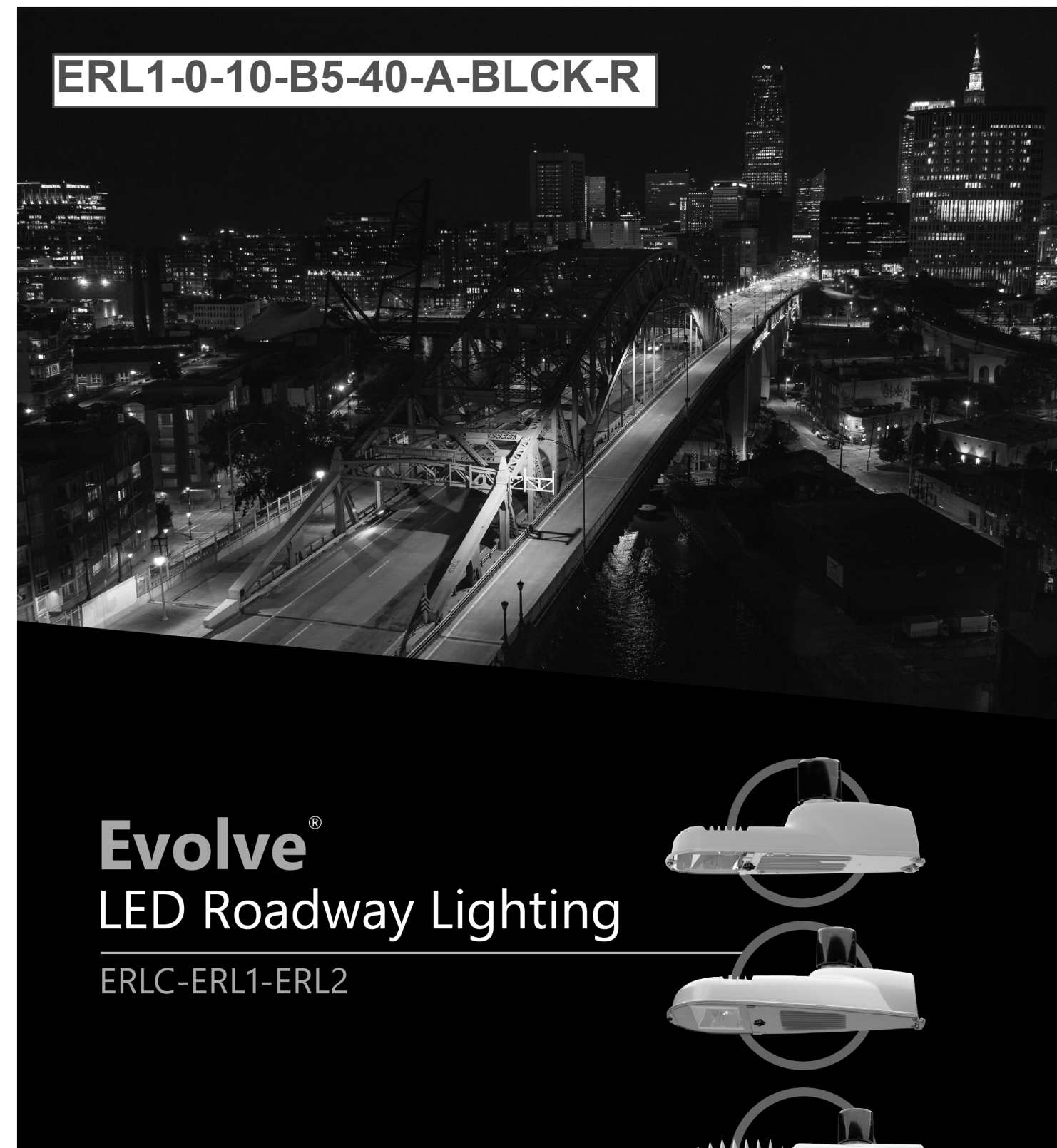
**FOOTNOTES:**

- 1) 10 = 1" Shield Depth; 15 = 1.5" Shield Depth; 20 = 2" Shield Depth
- 2) Black is recommended to reduce potential for glare coming off of the shield
- 3) Use "House Side" Shield to block light trespass behind the pole
- 4) Use "Street Side" / Front Shield to block light trespass across the street

**GE current**  
a Daintree company

www.gecurrent.com  
© 2022 Current Lighting Solutions, LLC. All rights reserved. GE and the GE monogram are trademarks of the General Electric Company and are used under license. Information provided subject to change without notice. All values are design or typical values unless measured under laboratory conditions. CLP1987 (Rev. 03/10/22)

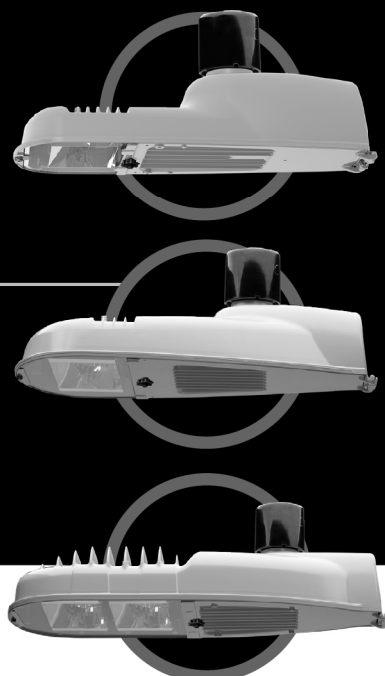
**LUM-001 LUMINAIRE DETAILS**



ERL1-0-10-B5-40-A-BLCK-R

# Evolve<sup>®</sup> LED Roadway Lighting

ERLC-ERL1-ERL2



GE current  
a Daintree company

LUM-002  
LUMINAIRE  
DETAILS

## Evolve<sup>®</sup> LED Roadway Lighting Cobra Head (ERL1)

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

Spec Tables

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V 277V	347V 480V	5000K/4000K	3000K	2700K
02	AS	2000	1900	1900	15*	N/A	B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS						B0-U0-G1	B0-U0-G1	B0-U0-G1
	DS						B0-U0-G1	B0-U0-G1	B0-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
03	AS	3000	2900	2800	22	26	B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
04	AS	4000	3900	3800	29	33	B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
05	AS	5000	4900	4700	37	39	B1-U0-G1	B1-U0-G1	B1-U0-G1
	BS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	CS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	DS						B1-U0-G1	B1-U0-G1	B1-U0-G1
	ES						B1-U0-G1	B1-U0-G1	B1-U0-G1
06	AS	6000	5800	5700	46	49	B1-U0-G2	B1-U0-G2	B1-U0-G2
	BS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	CS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
07	AS	7000	6700	6200	50	51	B1-U0-G2	B1-U0-G2	B1-U0-G2
	BS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	CS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
08	AS	8000	7600	7100	59	60	B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2
09	AS	9000	8600	8000	68	69	B2-U0-G2	B2-U0-G2	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B2-U0-G2	B2-U0-G2	B2-U0-G2

NOTE: \* 120-240V only

For additional information on ERL1 IES files, please click one of the following links:

- [Non-Shielded](#)
- [Shielded](#)

GE current  
a Daintree company



## Evolve<sup>®</sup> LED Roadway Lighting Cobra Head (ERL1)

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

The **Evolve<sup>®</sup>** LED Roadway ERL1 Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

### CONSTRUCTION

**Housing:** Aluminum die cast enclosure casting integral heat sink for maximum heat transfer  
**Lens:** Impact resistant tempered glass  
 Corrosion resistant powder paint,  $\geq 2.0$  mil thickness  
**Paint:** (RAL & custom colors available)  
 Standard = Black, Dark Bronze, Gray, White  
 Optional = Coastal Finish  
**Weight:** 12.4 lbs (5.6 kgs)

### OPTICAL SYSTEM

**Lumens:** 2,000 - 15,700  
**Distribution:** Type II, III, IV, Type II Narrow and Type II Enhanced Backlight  
**Efficacy:** 111-140 LPW  
**CCT:** 2700K, 3000K, 4000K and 5000K  
**CR:**  $\geq 70$

### ELECTRICAL

**Input Voltage:** 120-277V or 347-480V  
**Input Frequency:** 50/60Hz  
**Power Factor:**  $\geq 90\%$  at rated watts  
**Total Harmonic Distortion:**  $\leq 20\%$  at rated watts

### SURGE PROTECTION\*

Standard          **Optional**  
 10kV/5kA           Secondary 10kV/5kA (R Option) or  
 Secondary 20kV/10kA (T Option)

\*Per ANSI C136.2-2018

### LUMEN MAINTENANCE

Projected Lxx per IES TM-21-11 at 25°C

Lumen Codes	Distributions	LXX(10K) @ Hours		
		25,000 HR	50,000 HR	60,000 HR
02, 03, 04, 05, 06	AS, BS, CS, DS, ES	L96	L94	L93
07, 08	AS, BS, CS, DS, ES	L99	L98	L98
09	AS, BS, CS, DS, ES	L98	L97	L96
10	AS, BS, CS, DS, ES	L94	L87	L84
11	AS, BS, CS, DS, ES	L93	L85	L82
12	AS, BS, CS, DS, ES	L96	L95	L94
13	AS, BS, CS, DS, ES	L96	L94	L93
14	AS, BS, CS, DS, ES	L95	L92	L91
15	AS, BS, CS, DS, ES	L93	L88	L86
16	AS, BS, CS, DS, ES	L91	L85	L83

Note: Projected Lxx based on LM80 ( $\geq 10,000$  hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements.

### RATINGS

**Operating Temperature:** -40°C to 50°C  
**Vibration:** 3G per ANSI C136.31-2018  
**LM-79:** Testing in accordance with IES Standards

### CONTROLS

**Dimming:** Standard-0-10V   
 Optional-DALI (Option U)   
**Sensors:** Photo Electric Sensors (PE) available  
 LightGrid Compatible

### WARRANTY

5 Year (Standard)           10 Year (Optional)



GE current  
a Daintree company

## Evolve<sup>®</sup> LED Roadway Lighting Cobra Head (ERL1)

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

Spec Tables

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V 277V	347V 480V	5000K/4000K	3000K	2700K
10	AS	10000	9600	8900	76		B2-U0-G2	B2-U0-G2	B2-U0-G1
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B2-U0-G2	B2-U0-G2	B1-U0-G2
	DS						B1-U0-G2	B1-U0-G2	B1-U0-G2
	ES						B3-U0-G3	B2-U0-G2	B2-U0-G2
11	AS	11000	10500	9700	87		B3-U0-G3	B3-U0-G3	B2-U0-G2
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B1-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
12	AS	12000	11500	11000	93		B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
13	AS	13000	12400	12000	102		B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
14	AS	14000	13400	13000	110		B3-U0-G3	B3-U0-G3	B3-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
15	AS	15000	14400	13900	121		B2-U0-G3	B2-U0-G3	B2-U0-G3
	BS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	CS						B3-U0-G3	B3-U0-G3	B3-U0-G3
	DS						B2-U0-G2	B2-U0-G2	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3
16	AS	15700	15000	14600	129		B2-U0-G3	B2-U0-G3	B2-U0-G2
	BS						B3-U0-G3	B3-U0-G3	B2-U0-G2
	CS						B2-U0-G3	B2-U0-G3	B2-U0-G2
	DS						B2-U0-G3	B2-U0-G3	B2-U0-G2
	ES						B3-U0-G3	B3-U0-G3	B3-U0-G3

For additional information on ERL1 IES files, please click one of the following links:

- [Non-Shielded](#)
- [Shielded](#)

GE current  
a Daintree company

## Evolve<sup>®</sup> LED Roadway Lighting Cobra Head (ERL1)

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

Catalog Logic

ERL1	0	10	B5	40	A	BLCK	R
PROD. ID	0 = 120-277 <sup>1,2</sup>	02 <sup>2</sup>	AS = Type II Narrow	27 = 2700K <sup>4</sup>			
VOLTAGE	H = 347-480 <sup>3</sup>	03	B5 = Type II	30 = 3000K <sup>4</sup>	D = 7-Pin Receptacle with Shorting Cap	BLCK = Black	B = Tether
LUMENS	1 = 120	04	CS = Type III	40 = 4000K	E = 7-Pin Receptacle with non-dimming Long Life PE	DKBZ = Dark Bronze	F = Fusing
DISTRIBUTION <sup>3</sup>	2 = 200	05	D5 = Type IV	50 = 5000K	Note: 0-10V standard	WHITE = White	G = Internal Bubble Level
CCT	3 = 240	06	ES = Type II Enhanced Back Light				I = Optional IP66 Optical Enclosure
CONTROLS PER ANSIC136.41	4 = 277	07					L = Tool-Less Entry
COLOR	8 = 120-240 <sup>11</sup>	08					R = Secondary 10kV/5kA SPD
OPTIONS	5 = 480	09					T = Secondary 20kV/10kA SPD
	6 = 347	10					U = DALI Programmable <sup>12</sup>
		11					V1 = Field Adjustable Module <sup>13</sup>
		12					X = Single Pack <sup>14</sup>
		13					Y = Coastal Finish <sup>15</sup>
		14					XXX = Special Options
		15					
		16					

- <sup>1</sup> Fusing requires discrete voltage
- <sup>2</sup> 02 Luminaire Voltage options 1, 2, 3 and 8 only
- <sup>3</sup> Nominal IES Type and spacing subject to typical variation, individual units may differ
- <sup>4</sup> Select 2700K or 3000K CCT for DA approved units
- <sup>5</sup> Lead time varies, contact Factory
- <sup>6</sup> Compatible with LightGrid
- <sup>7</sup> Not available in 347V 480V or 347-480V for Lumen Output Levels 08-16
- <sup>8</sup> Option provided for single pack box per fixture. Standard packaging = 23 units per MagnaPack Container
- <sup>9</sup> Recommended for installation within 750 feet from coast. Lead time varies, check with factory
- <sup>10</sup> Not available with DALI "U" option
- <sup>11</sup> Only available with 02 Lumen Code

### SUGGESTED HID REPLACEMENT

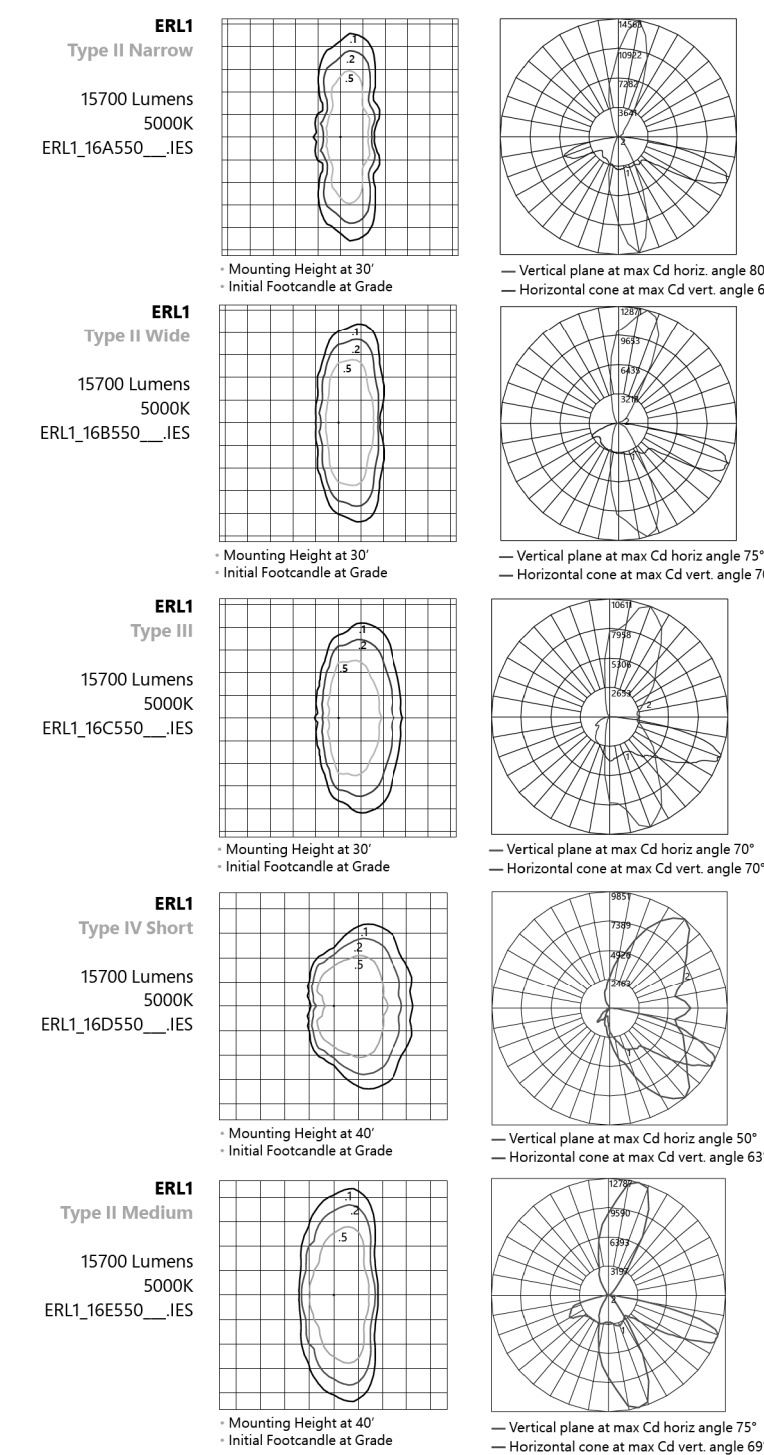
Approximately 2,000-3,000 lumens to replace 50W-70W HPS Cobra-head  
 Approximately 4,000-5,000 lumens to replace 100W HPS Cobra-head  
 Approximately 7,000-9,000 lumens to replace 150W HPS Cobra-head  
 Approximately 9,000-12,000 lumens to replace 200W HPS Cobra-head  
 Approximately 12,000-16,000 lumens to replace 250W HPS Cobra-head  
 Note: actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

GE current  
a Daintree company

## Evolve<sup>®</sup> LED Roadway Lighting Cobra Head (ERL1)

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

Photometric Plots



GE current  
a Daintree company

Public Lighting Authority of Detroit  
 400 Monroe, Suite 485  
 Detroit, Michigan 48226  
 313-224-6280 office  
 313-638-2805 fax  
 pladetroit.org

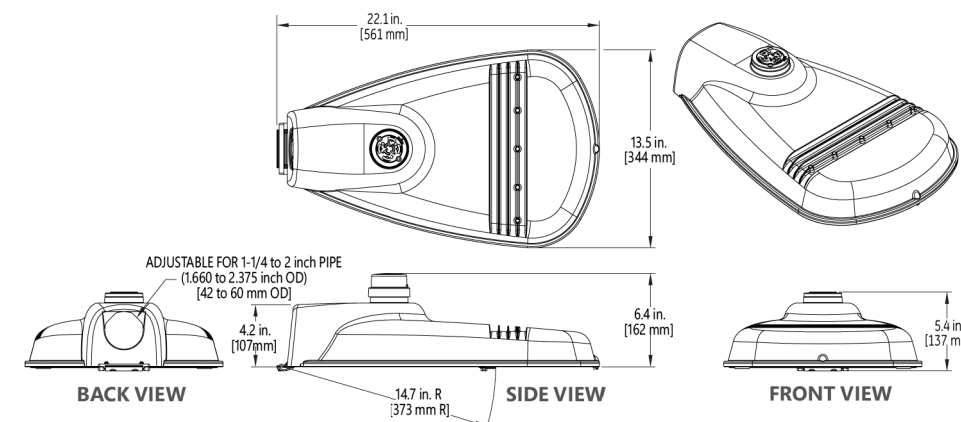
PROJECT DESCRIPTION  
**DESIGN ENGINEERING FOR STREET LIGHTING DEXTER FROM WEBB TO DAVISON**  
 76W STREET LUMINAIRE DETAILS  
 SHEET 1 OF 2

Consulting Engineering Associate and Wade Trim Joint Venture  
 16580 Wyoming  
 Detroit, Michigan 48221  
 313-941-5797  
**Consulting Engineering Associates, Inc.**  
**WADE TRIM**

DATE:	DETAIL REVISIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

**Evolve® LED Roadway Lighting**  
Cobra Head (ERL1)  
Mounting & Accessories

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_



**MOUNTING**

- Adjustable for 1.25 to 2 in. nominal mounting pipe (1.660 to 2.375 inch OD)
- Integral diecast mounting pipe stop
- Slipfitter with +/- 5 degrees of leveling adjustment

**EFFECTIVE PROJECTED AREA**

- 0.5 sq ft max (0.046 sq m)

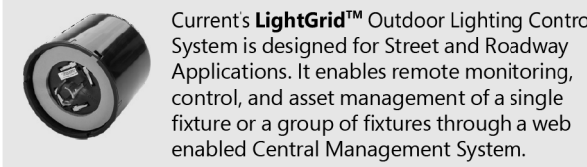
**WEIGHT**

- 12.4 lbs (5.6 kgs)

**ACCESSORIES**

SAP Number	Part Number	Description
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE 480V
28299	PECTL	Long Life PE 120-277V
93147530	PECTL	Long Life PE 347-480V
73251	SCCL-PECTL	Shorting Cap

**NETWORK LIGHTING CONTROLS**



Current's **LightGrid™** Outdoor Lighting Control System is designed for Street and Roadway Applications. It enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web enabled Central Management System.

**GE current**  
a Daintree company

**Evolve® LED Cobra Head Shield Guide**

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

**HOUSE SIDE SHIELDS**

**ERLC SHIELDS**

Product Code	Description	Shield
93110037	ELSHS-ERLC-BLCK	
93110038	ELSHS-ERLC-GRAY	

**ERL1 SHIELDS**

Product Code	Description	Shield
93024487	ELSHS-ERL1-BLCK	
93046386	ELSHS-ERL1-GRAY	
93068998	ELSHS-ERL1-DKBZ	

**ERL2 SHIELDS**

Product Code	Description	Shield
93070722	ELSHS-ERL2-BLCK	
93085564	ELSHS-ERL2-GRAY	
93096747	ELSHS-ERL2-DKBZ	

**STREET SIDE SHIELDS**

**ERLC SHIELDS**

Product Code	Description	Shield
93132372	ELSFs-ERLC-BLCK-10	
93132373	ELSFs-ERLC-BLCK-15	
93134760	ELSFs-ERLC-BLCK-20	

**ERL1 SHIELDS**

Product Code	Description	Shield
93092595	ELSFs-ERL1-BLCK-10	
93108740	ELSFs-ERL1-GRAY-10	
93092906	ELSFs-ERL1-BLCK-15	
93105144	ELSFs-ERL1-GRAY-15	
93088130	ELSFs-ERL1-BLCK-20	
93088131	ELSFs-ERL1-GRAY-20	

**ERL2 SHIELDS**

Product Code	Description	Shield
93132955	ELSFs-ERL2-BLCK-20	
93132986	ELSFs-ERL2-GRAY-20	

**GE current**  
a Daintree company

**Evolve® LED Cobra Head Shield Guide**

Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

**SIDE SHIELDS (L&R)**

Shipped as a kit - L & R can be used independently

**ERLC SHIELDS**

Product Code	Description	Shield
93132374	ELS-ERLC-LEFTRIGHTSIDEKIT-BLCK-10	

**ERL1 SHIELDS**

Product Code	Description	Shield
93118695	ELS-ERL1H-LEFTRIGHTSIDEKIT-BLCK-10	

**ERL2 SHIELDS**

Product Code	Description	Shield
93132989	ELS-ERL2-LEFTRIGHTSIDEKIT-BLCK-10	

**FOOTNOTES:**

- 1) 10 = 1" Shield Depth; 15 = 1.5" Shield Depth; 20 = 2" Shield Depth
- 2) Black is recommended to reduce potential for glare coming off of the shield
- 3) Use "House Side" Shield to block light trespass behind the pole
- 4) Use "Street Side" / Front Shield to block light trespass across the street

**GE current**  
a Daintree company

www.gecurrent.com  
© 2022 Current Lighting Solutions, LLC. All rights reserved. GE and the GE monogram are trademarks of the General Electric Company and are used under license. Information provided subject to change without notice. All values are design or typical values unless measured under laboratory conditions. CLP1987 (Rev. 03/16/22)

**LUM-002 LUMINAIRE DETAILS**

CAB-001  
COPPER  
UNDERGROUND CABLE  
DETAILS

SIMPull XHHW-2®  
Copper XHHW Wire & Cable

600 Volts & 1000 Volts (see below). Copper Conductor. Cross-Linked Polyethylene (XLPE) Insulation. High-Heat and Moisture Resistant. SIM Technology® for easier pulling. Sizes 14 through 10 AWG also rated SIS.

APPLICATIONS

Southwire® SIMpull XHHW-2® copper conductors are primarily used in conduit, Cable Tray or other recognized raceways for services, feeders, and branch circuit wiring, as specified in the National Electrical Code. SIMpull XHHW-2® copper conductors may be used in wet or dry locations at temperatures not to exceed 90° C. Voltage rating for XHHW-2 conductors is 600 volts for all sizes and 1000 volts for sizes 8 AWG and larger. Suitable for use in Health Care Facilities per Section 517.160 of the National Electrical Code where a dielectric constant of less than 3.5 maybe specified. This cable is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

- Southwire® SIMpull XHHW-2® copper conductors comply with the following:
• ASTM- B3, B8 (7, 19, 37, 61 Strands), B787 (19 Strands)
• UL Standard 44
• NOM-ANCE 90° C
• Federal Specification A-A059544
• CT Rated Sizes 1/0 AWG and Larger
• Gas and Oil Resistant II sizes 8 AWG and larger
• Sunlight (UV) Resistant - S 8 AWG and larger
• National Electrical Code, NFPA 70
• NEMA WC 70 Construction Requirements
• FT4/IEEE 1202- Sizes 35 KCMIL and Larger
• RoHS/REACH Chemical Limit Compliant

CONSTRUCTION

Southwire® SIMpull XHHW-2® copper conductors are annealed (soft) copper. Insulation is an abrasion, moisture, and heat resistant thermoset cross-linked polyethylene (XLPE). Conductor sizes 8 AWG and larger are marked sunlight resistant. Colors are available and may be subject to economic order quantity.



Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

SIMPull XHHW-2®  
Aluminum XHHW Wire & Cable

600 Volt Alumaflex® Brand Aluminum Alloy (AA-8176) Conductor. Cross-linked Polyethylene (XLPE) Insulation. Moisture Resistant High Heat. Sunlight Resistant in Sizes 6 AWG and Larger. CT Rated in Sizes 1/0 AWG and Larger.

APPLICATIONS

Southwire SIMpull XHHW-2® aluminum conductors are primarily used in conduit or recognized raceways for service and feeder wiring as specified in the National Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90° C. Voltage rating for XHHW-2 conductors is 600 volts. Suitable for use in Health Care Facilities per section 517.160 of the NEC where a dielectric constant of 3.5 or less may be specified. This product is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

- Southwire Aluminum Type XHHW-2 conductors comply with the following:
• ASTM- All Applicable Standards
• UL Standard 44
• NOM-ANCE 90° C
• Federal Specification A-A-59544
• National Electrical Code, NFPA 70
• NEMA WC-70 (IECEA S-95-658) Construction Requirements
• RoHS/Reach Compliant

CONSTRUCTION

Southwire Type XHHW-2 aluminum conductors are Alumaflex® brand AA-8000 series aluminum alloy, compact stranded. The insulation is an abrasion, moisture and heat resistant SIMpull® thermoset cross-linked polyethylene. Conductor sizes 6 AWG and larger are listed and marked sunlight resistant in all colors. Available in black, white, red, blue, brown, orange, yellow, purple, gray, and green. Some colors are subject to economic order quantity.



Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

Table with columns: Conductor Size (AWG or kcmil), No. of strands, Insulation Thickness (mils), Nominal O.D. (mils), Approx Net Wt. Per 1000' (lbs.), Allowable Ampacities (60°C, 75°C, 90°C), Standard Package, Package Code.

RECOMMENDED SAMPLE SPECIFICATIONS: Conductors shall be UL-listed SIMpull XHHW-2® copper conductors, suitable for operation at 600 volts or less (1000 volts or sizes 8 AWG & larger) in wet or dry locations, at temperatures not to exceed 90° C. Conductors shall be annealed copper, as manufactured by Southwire Company or approved equal.

Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

Table with columns: Conductor Size (AWG or kcmil), No. of strands, Insulation Thickness (mils), Nominal O.D. (mils), Approx Net Wt. Per 1000' (lbs.), Allowable Ampacities (60°C, 75°C, 90°C), Standard Package, Package Codes.

RECOMMENDED SAMPLE SPECIFICATIONS: Conductors shall be UL-listed Type XHHW-2, suitable for operation at 600 volts or less in wet or dry locations at temperatures not to exceed 90° C. Conductors shall be annealed Alumaflex® brand aluminum alloy as manufactured by Southwire Company or approved equal.

Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

Table with columns: Conductor Size (AWG or kcmil), No. of strands, Stock Numbers, Color Abbreviations.

Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

Table with columns: Conductor Size (AWG or kcmil), No. of strands, Stock Numbers, Color Abbreviations.

Revised March 12, 2018

The Power of Connections.™



©2015 Southwire Company, LLC. All rights reserved. ®Registered Trademark and ™Trademark of Southwire Company, LLC. One Southwire Drive, Carrollton, GA 30119, USA

SPEC 83310

**Quadruplex Copper XLPE Service Drop Neutral - Messenger**  
Copper Conductors With Crosslinked Polyethylene Insulation.

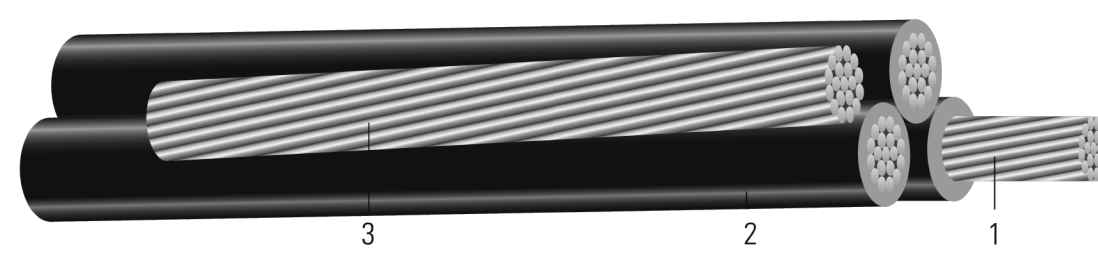


Image not to scale. See Table 1 for dimensions.

**CONSTRUCTION:**

- Conductor:** Conductors are stranded, compressed copper
- Insulation:** Cross Linked Polyethylene (XLPE)
- Messenger:** Hard Drawn Copper

**APPLICATIONS AND FEATURES:**

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 90°C for crosslinked polyethylene (XLPE) insulated conductors.

**SPECIFICATIONS:**

- ASTM B1 Hard-Drawn Copper
- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V

**Table 1 – Weights and Measurements**

Stock Number	Code Word	Phase Cond. Size		Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Neutral Strand	Approx. Weight
		AWG/Kcmil	No.						
TBA	Atlanta	6	7	0.184	45	0.274	6	1	368
TBA	Tallahassee	6	7	0.184	45	0.274	6	7	369
TBA	Richmond	4	7	0.232	45	0.322	4	7	573
TBA	Baton Rouge	4	7	0.232	45	0.322	4	1	570
TBA	Jackson	2	7	0.292	45	0.382	2	1	889
TBA	Seattle	2	7	0.292	45	0.382	2	7	893
TBA	Nashville	1/0	19	0.368	60	0.488	1/0	7	1420
TBA	Lincoln	2/0	19	0.414	60	0.534	2/0	7	1773
TBA	Raleigh	3/0	19	0.414	60	0.534	3/0	7	2220
TBA	Denver	4/0	19	0.414	60	0.534	4/0	7	2781

All dimensions are nominal and subject to normal manufacturing tolerances

SPEC 83310 DATE: 02/04/2021 18:14 UTC Rev.

SPEC 83310

**Table 2 – Electrical and Engineering Data**

Stock Number	Code Word	Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C		AC Resistance @ 90°C		Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 90°C
				lb	Ω/1000ft	Ω/1000ft	Ω/1000ft			
TBA	Atlanta	6	1280	0.416	0.512	0.0327	0.0086	95		95
TBA	Tallahassee	6	1228	0.416	0.512	0.0327	0.0107	95		95
TBA	Richmond	4	1938	0.262	0.322	0.031	0.0121	125		125
TBA	Baton Rouge	4	1970	0.262	0.322	0.031	0.0122	125		125
TBA	Jackson	2	3003	0.165	0.202	0.03	0.0204	170		170
TBA	Seattle	2	3050	0.165	0.202	0.03	0.0205	170		170
TBA	Nashville	1/0	4752	0.103	0.127	0.029	0.0206	230		230
TBA	Lincoln	2/0	5926	0.082	0.101	0.029	0.0207	265		265
TBA	Raleigh	3/0	7366	0.082	0.101	0.029	0.0207	305		305
TBA	Denver	4/0	9154	0.082	0.101	0.029	0.0207	350		350

SPEC 83310 DATE: 02/04/2021 18:14 UTC Rev.

Quadruplex Service Drop

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+		
	Size (AWG or kcmil)	Strand-ing	Insul. Thick. (mils)	Size (AWG or kcmil)	Strand-ing	Rated Strength (lbs)	XLP	POLY	XLP	POLY	
<b>6201 ALLOY NEUTRAL-MESSENGER</b>											
Bay	6	1	45	6	30.58	7	1110	137	137	75	60
French Coach	6	7	45	6	30.58	7	1110	146	146	75	60
German Coach	4	1	45	4	48.69	7	1760	205	205	100	80
Arabian	4	7	45	4	48.69	7	1760	217	217	100	80
Belgian	2	7	45	2	77.47	7	2800	328	328	135	105
Shetland	1/0	9	60	1/0	123.3	7	4460	519	519	180	140
Thoroughbred	2/0	11	60	2/0	155.4	7	5390	639	639	205	160
Trotter	3/0	17	60	3/0	195.7	7	6790	789	789	235	185
Walking	4/0	18	60	4/0	246.9	7	8560	977	977	275	210

\*Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g. BayXLP).  
 +Conductor temperature of 90°C for XLP, 75°C for Poly, ambient temperature of 40°C, emissivity 0.9, 2 ft/sec. wind in sun.  
 \*\*Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201.

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG or kcmil)	Strand-ing	Insul. Thick. (mils)	Size (AWG or kcmil)	Strand-ing	Rated Strength (lbs)	XLP	POLY	XLP	POLY
<b>AAC NEUTRAL-MESSENGER</b>										
Clydesdale	4	1	45	4	7	881	198	198	100	80
Pinto	4	7	45	4	7	881	211	211	100	80
Mustang	2	7	45	2	7	1350	318	318	135	105
Criollo	1/0	9	60	1/0	7	1990	503	503	180	140
Percheron	2/0	11	60	2/0	7	2510	619	619	205	160
Hanovarian	3/0	17	60	3/0	19	3310	764	764	235	185
Oldenburg	4/0	18	60	4/0	19	4070	945	945	275	210
Lippizaner	336.4	19	80	336.4	19	6146	1519	1519	370	280

\*Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g. BayXLP).  
 +Conductor temperature of 90°C for XLP, 75°C for Poly, ambient temperature of 40°C, emissivity 0.9, 2 ft/sec. wind in sun.

Copyright 2015, Southwire Company. All Rights Reserved. Southwire is a registered trademark of Southwire Company.

Fri May 29 10:31:35 EDT 2009

Page 2 of 3

Quadruplex Service Drop

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+		
	Size (AWG or kcmil)	Strand-ing	Insul. Thick. (mils)	Size (AWG or kcmil)	Strand-ing	Rated Strength (lbs)	XLP	POLY	XLP	POLY	
<b>6201 ALLOY NEUTRAL-MESSENGER</b>											
Bay	6	1	45	6	30.58	7	1110	137	137	75	60
French Coach	6	7	45	6	30.58	7	1110	146	146	75	60
German Coach	4	1	45	4	48.69	7	1760	205	205	100	80
Arabian	4	7	45	4	48.69	7	1760	217	217	100	80
Belgian	2	7	45	2	77.47	7	2800	328	328	135	105
Shetland	1/0	9	60	1/0	123.3	7	4460	519	519	180	140
Thoroughbred	2/0	11	60	2/0	155.4	7	5390	639	639	205	160
Trotter	3/0	17	60	3/0	195.7	7	6790	789	789	235	185
Walking	4/0	18	60	4/0	246.9	7	8560	977	977	275	210

\*Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g. BayXLP).  
 +Conductor temperature of 90°C for XLP, 75°C for Poly, ambient temperature of 40°C, emissivity 0.9, 2 ft/sec. wind in sun.  
 \*\*Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201.

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG or kcmil)	Strand-ing	Insul. Thick. (mils)	Size (AWG or kcmil)	Strand-ing	Rated Strength (lbs)	XLP	POLY	XLP	POLY
<b>AAC NEUTRAL-MESSENGER</b>										
Clydesdale	4	1	45	4	7	881	198	198	100	80
Pinto	4	7	45	4	7	881	211	211	100	80
Mustang	2	7	45	2	7	1350	318	318	135	105
Criollo	1/0	9	60	1/0	7	1990	503	503	180	140
Percheron	2/0	11	60	2/0	7	2510	619	619	205	160
Hanovarian	3/0	17	60	3/0	19	3310	764	764	235	185
Oldenburg	4/0	18	60	4/0	19	4070	945	945	275	210
Lippizaner	336.4	19	80	336.4	19	6146	1519	1519	370	280

\*Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g. BayXLP).  
 +Conductor temperature of 90°C for XLP, 75°C for Poly, ambient temperature of 40°C, emissivity 0.9, 2 ft/sec. wind in sun.

Copyright 2015, Southwire Company. All Rights Reserved. Southwire is a registered trademark of Southwire Company.

Fri May 29 10:31:35 EDT 2009

Page 2 of 3

Quadruplex Service Drop

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG or kcmil)	Strand-ing	Insul. Thick. (mils)	Size (AWG or kcmil)	Strand-ing	Rated Strength (lbs)	XLP	POLY	XLP	POLY
<b>ACSR NEUTRAL-MESSENGER</b>										
Morochua	6	1	45	6	6/1	1190	145	145	75	60
Chota	6	7	45	6	6/1	1190	153	153	75	60
Morgan	4	1	45	4	6/1	1900	217	217	100	80
Hadley	4	7	45	4	6/1	1900	229	229	100	80
Palomino	2	7	45	2	6/1	2650	347	347	135	105
Costana	1/0	9	60	1/0	6/1	4380	549	549	180	140
Grullo	2/0	11	60	2/0	6/1	5310	677	677	205	160
Suffolk	3/0	17	60	3/0	6/1	6620	837	837	235	185
Appalosa	4/0	18	60	4/0	6/1	8350	1038	1038	275	210
Golding	336.4	19	80	4/0	6/1	8350	1494	1494	370	280
Bronco	336.4	19	80	336.4	19/1	8680	1568	1568	370	280

\*Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g. BayXLP).  
 +Conductor temperature of 90°C for XLP, 75°C for Poly, ambient temperature of 40°C, emissivity 0.9, 2 ft/sec. wind in sun.

Copyright 2015, Southwire Company. All Rights Reserved. Southwire is a registered trademark of Southwire Company.

Fri May 29 10:31:35 EDT 2009

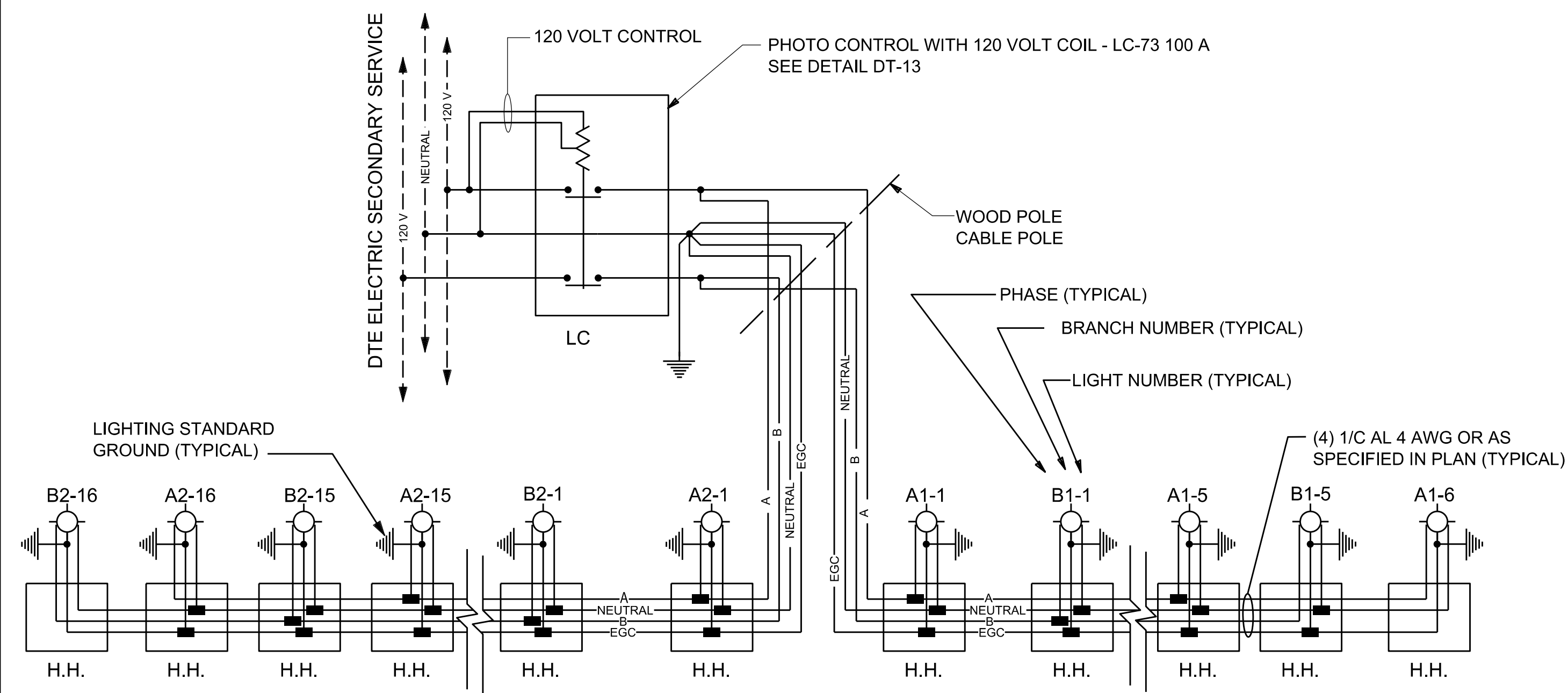
Page 3 of 3

PROJECT DESCRIPTION  
 DESIGN ENGINEERING FOR STREET LIGHTING  
 DEXTER FROM WEBB TO DAVISON  
 CABLE DETAILS  
 SHEET 2 OF 2

DATE:	DETAIL REVISIONS:
2023-03-10	30% SUBMITTAL
2023-04-21	60% SUBMITTAL
2023-06-09	90% SUBMITTAL
2023-07-21	100% SUBMITTAL

SHEET	
<b>DT-04.2</b>	
P.O. NO. 1845	JOB NO. 142833
PAGE 22 OF 31	

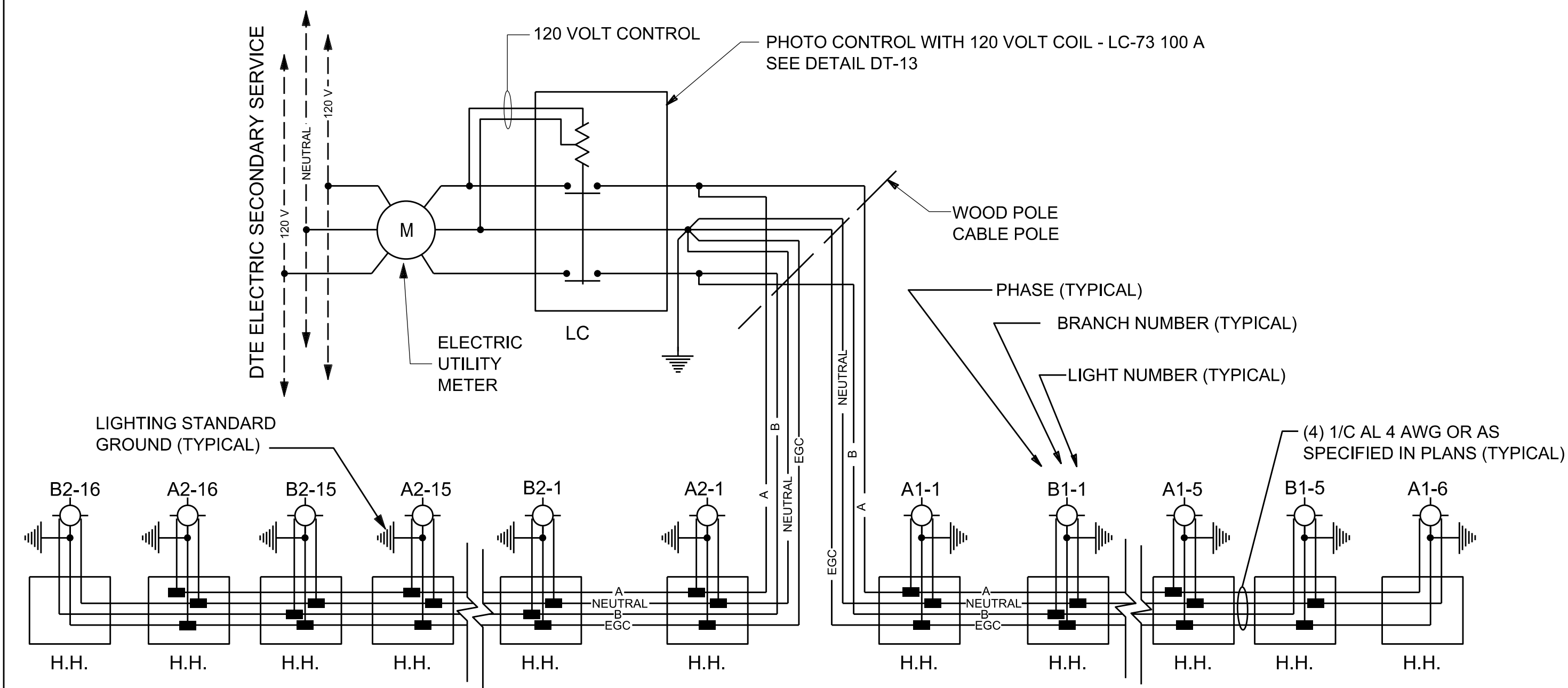




**UNDERGROUND STREET LIGHTING CIRCUIT TYPICAL WIRING SCHEMATIC  
THREE CONDUCTOR AND EQUIPMENT GROUND CONDUCTOR (EGC)**

NOT TO SCALE

- UNDERGROUND FED LIGHTING STANDARD
- HANDHOLE
- HOMAC RAB 1/0-xx MECHANICAL CONNECTOR INSTALLED IN HANDHOLE  
xx = IS THE OUTLET CONFIGURATION RAB 1/0-21 IS SHOWN  
SIZE AS NECESSARY FOR MULTIPLE LUMINAIRES OR CIRCUIT BRANCHES



**RECEPTACLE CIRCUIT TYPICAL WIRING SCHEMATIC  
THREE CONDUCTOR AND EQUIPMENT GROUND CONDUCTOR (EGC)**

NOT TO SCALE

- UNDERGROUND FED LIGHTING STANDARD
- HANDHOLE
- HOMAC RAB 1/0-xx MECHANICAL CONNECTOR INSTALLED IN HANDHOLE  
xx = IS THE OUTLET CONFIGURATION RAB 1/0-21 IS SHOWN  
SIZE AS NECESSARY FOR MULTIPLE RECEPTACLES OR CIRCUIT BRANCHES

**CABLES IN HANDHOLES AND MANHOLES:**

STREET LIGHTING AND RECEPTACLE CABLES IN HANDHOLES AND MANHOLES SHALL BE PULLED STRAIGHT THROUGH THE STRUCTURE UNLESS THERE IS A TAP REQUIRED TO SERVICE A STREET LIGHT, RECEPTACLE OR CIRCUIT BRANCH LOCATION.

LOCATIONS REQUIRING A SERVICE TAP WILL HAVE THE SERVICE PHASE TAPPED WITH THE APPROPRIATE HOMAC RAB CONNECTOR AND THE NON-SERVICE PHASE PULLED STRAIGHT THROUGH.

LOCATIONS REQUIRING CIRCUIT TAPS FOR CIRCUIT BRANCHES WILL BE IDENTIFIED ON THE PLANS WITH THE REQUIRED TAP SIZE AND PHASE PROVIDED.

**EXAMPLE 1 - LAMP LOOP:**

AN EXAMPLE IS A HANDHOLE LOCATION WITH BOTH THE A PHASE AND THE B PHASE COMING IN AND CONTINUING ALONG TO FEED ADDITIONAL STREET LIGHT LOCATIONS. THE HANDHOLE ALSO FEEDS A STREET LIGHTING STANDARD THAT HAS 2 LUMINAIRES THAT ARE TO BE CONNECTED TO THE B PHASE CABLE AND NO RECEPTACLE. THE B PHASE CABLE WILL HAVE A 4-WAY HOMAC RAB CONNECTOR INSTALLED. THE NEUTRAL WILL HAVE A 4-WAY HOMAC RAB CONNECTOR INSTALLED. THE EGC WILL HAVE A 3-WAY HOMAC RAB CONNECTOR INSTALLED. THE A PHASE CABLE WILL BE PULLED STRAIGHT THROUGH.

**EXAMPLE 2 - CIRCUIT BRANCH:**

AN EXAMPLE IS A HANDHOLE LOCATION WITH BOTH THE A PHASE AND THE B PHASE COMING IN AND FEEDING TWO DIFFERENT DIRECTIONS GOING OUT WITHOUT A STREET LIGHT LOCATION DIRECTLY CONNECTED TO THE HANDHOLE. THIS EXAMPLE REQUIRES CABLE 3-WAYS (ALSO CALLED A T-TAP OR BRANCH) TO BE INSTALLED TO FEED THE TWO DIFFERENT DIRECTIONS. A 3-WAY HOMAC RAB WILL BE INSTALLED ONTO EACH OF THE A PHASE, B PHASE, NEUTRAL AND EGC CABLES.

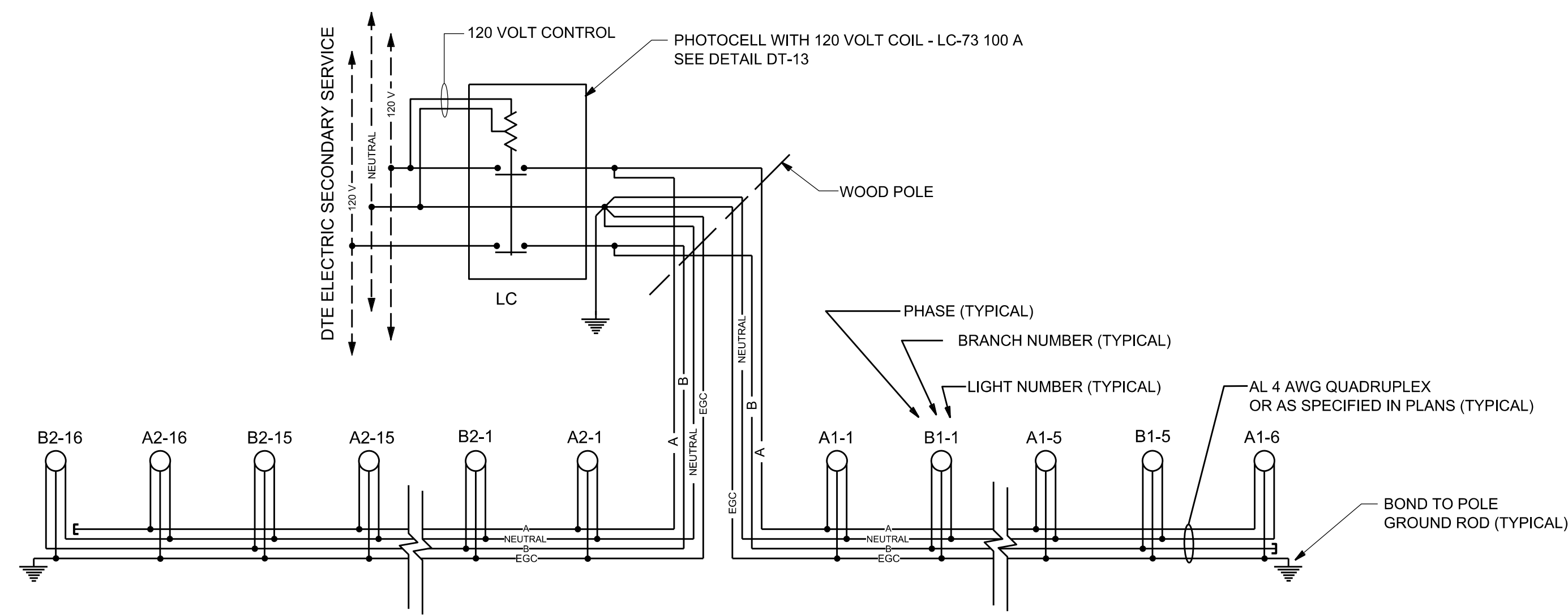
**UNDERGROUND PHASE IDENTIFICATION**

CURRENT UNDERGROUND CONSTRUCTION WIRING STANDARD				
CONDUCTOR ID	BLACK	WHITE/WHITE STRIPE	RED/RED STRIPE	GREEN/BARE
PHASE	A PHASE	NEUTRAL	B PHASE	EGC

OBSOLETE UNDERGROUND CONSTRUCTION WIRING STANDARD				
CONDUCTOR ID	BLACK	WHITE/WHITE STRIPE	RED/RED STRIPE	GREEN/BARE
PHASE	A PHASE	NEUTRAL	B PHASE	---

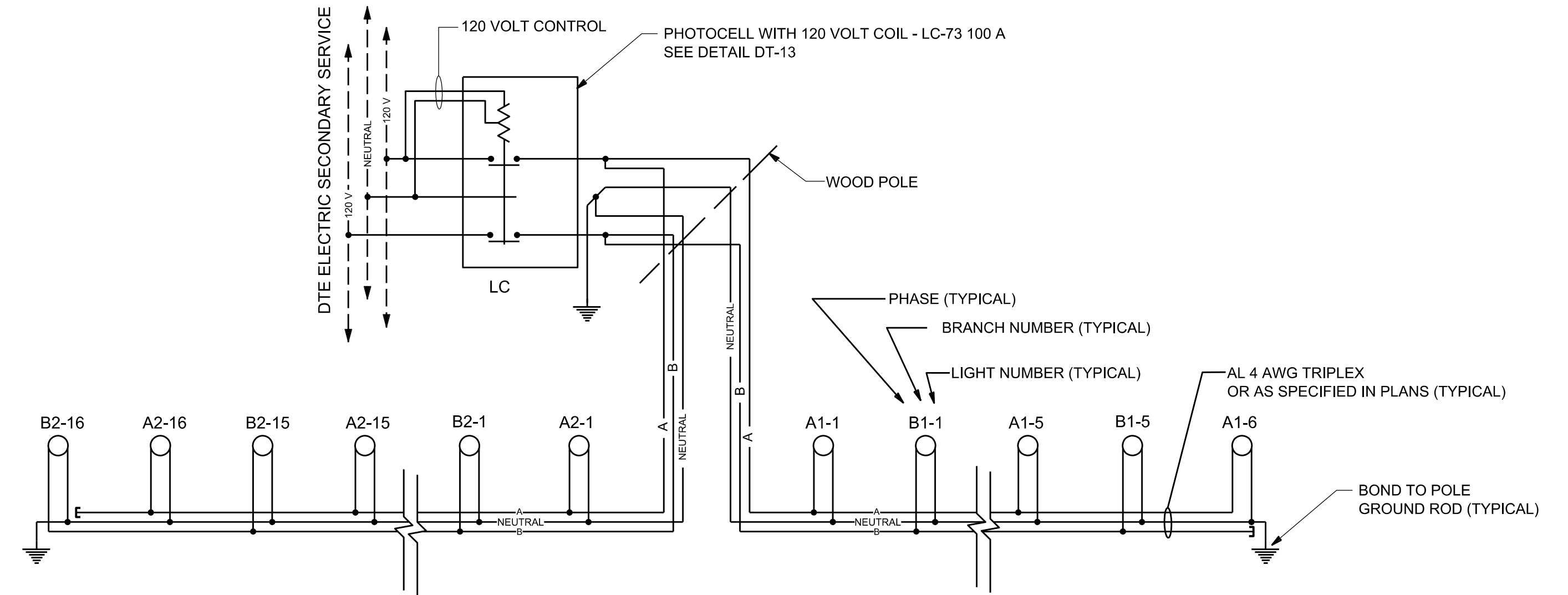
- \*\*\* WHEN MODIFICATIONS OR ADDITIONS ARE REQUIRED ON OBSOLETE STYLE CONSTRUCTION CIRCUITS, THE CHANGES SHOULD BE MADE WITH THE OBSOLETE STYLE OR THE ENTIRE CIRCUIT MUST BE UPDATED.
- \*\*\* THE CURRENT UNDERGROUND CONSTRUCTION AND THE OBSOLETE UNDERGROUND CONSTRUCTION STANDARDS SHALL NOT BE INTERMINGLED EXCEPT AT THE CIRCUIT SOURCE POINT WHERE THE NEUTRAL IS BONDED TO THE GROUND AT THE MAIN BREAKER.
- \*\*\* THERE ARE INSTALLATIONS WHERE NEITHER COLOR-CODED, EITHER COLORED INSULATION OR PHASE MARKED, CONDUCTORS ARE USED SO THAT ALL THE CONDUCTORS ARE THE SAME COLOR, TYPICALLY BLACK. PHASING MUST BE FIELD VERIFIED PRIOR TO CONNECTING ANY COLOR-CODED CONDUCTORS TO NON-CODED CONDUCTORS.
- \*\*\* PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING, CARE IS TO BE TAKEN BY VERIFYING THE EXISTING CIRCUIT CABLING PHASING TO ENSURE THAT PROPER ELECTRICAL CONNECTIONS ARE MADE. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.
- \*\*\* THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CIRCUIT PHASE IDENTIFICATIONS PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.



**CURRENT LIGHTING CONTROL DIAGRAM  
QUADRUPLEX WITH EQUIPMENT GROUND CONDUCTOR (EGC)**

NOT TO SCALE

○ OVERHEAD FED STREET LIGHT STANDARD OR POLE



**OBSOLETE LIGHTING CONTROL DIAGRAM  
TRIPLEX WITH NEUTRAL BONDED TO GROUND**

NOT TO SCALE

○ OVERHEAD FED STREET LIGHT STANDARD OR POLE

**OVERHEAD PHASE IDENTIFICATION**

**CURRENT OVERHEAD CONSTRUCTION WIRING STANDARD**

CABLE TYPE	NO RIB	1 RIB	2 RIBS	MESSENGER
QUADRUPLEX	A PHASE	NEUTRAL	B PHASE	EGC
TRIPLEX	A PHASE	NEUTRAL	---	EGC
DUPLEX	---	---	---	---

**OBSOLETE OVERHEAD CONSTRUCTION WIRING STANDARD**

CABLE TYPE	NO RIB	1 RIB	2 RIBS	MESSENGER
QUADRUPLEX	---	---	---	---
TRIPLEX	A PHASE	B PHASE	---	NEUTRAL
DUPLEX	A PHASE	---	---	NEUTRAL

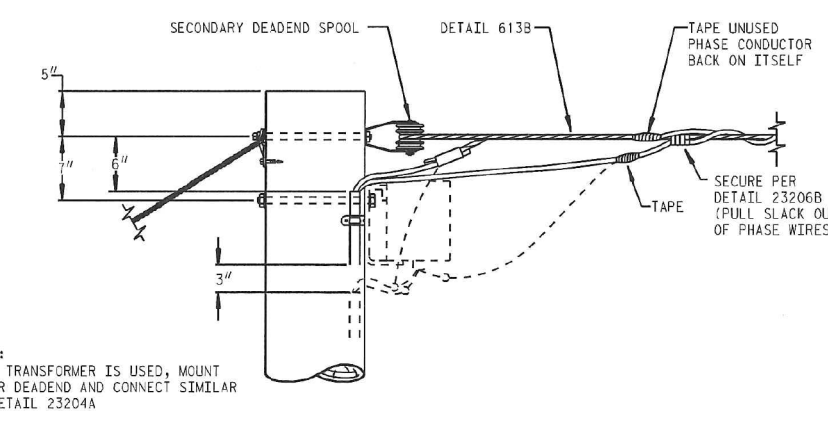
\*\*\* WHEN MODIFICATIONS OR ADDITIONS ARE REQUIRED ON OBSOLETE STYLE CONSTRUCTION CIRCUITS, THE CHANGES SHOULD BE MADE WITH THE OBSOLETE STYLE OR THE ENTIRE CIRCUIT MUST BE UPDATED.

\*\*\* THE CURRENT OVERHEAD CONSTRUCTION AND THE OBSOLETE OVERHEAD CONSTRUCTION STANDARDS SHALL NOT BE INTERMINGLED EXCEPT AT THE CIRCUIT SOURCE POINT WHERE THE NEUTRAL IS BONDED TO THE GROUND AT THE MAIN BREAKER.

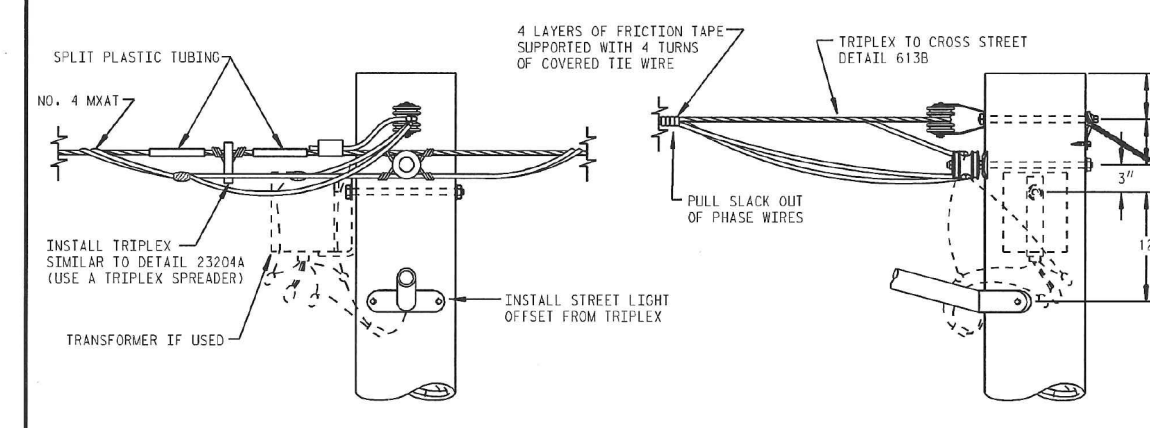
\*\*\* THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CIRCUIT PHASE IDENTIFICATIONS PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.



23-STREET LIGHTING



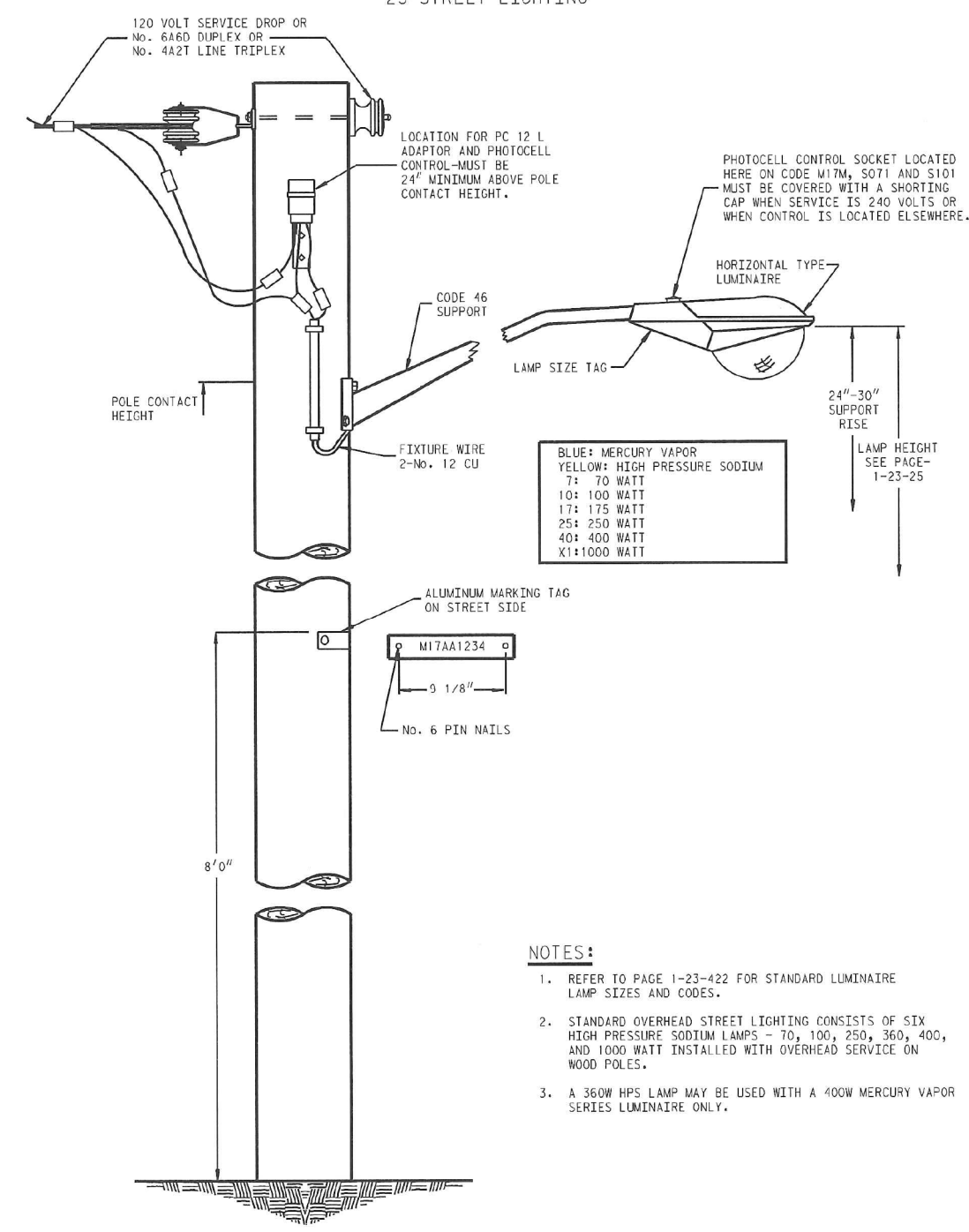
DEADEND POLE  
DETAIL 23206A



TRIPLEX TEE FEED  
DETAIL 23206B

120 OR 240 VOLT CIRCUIT  
NO. 4A2T LINE TRIPLEX

23-STREET LIGHTING

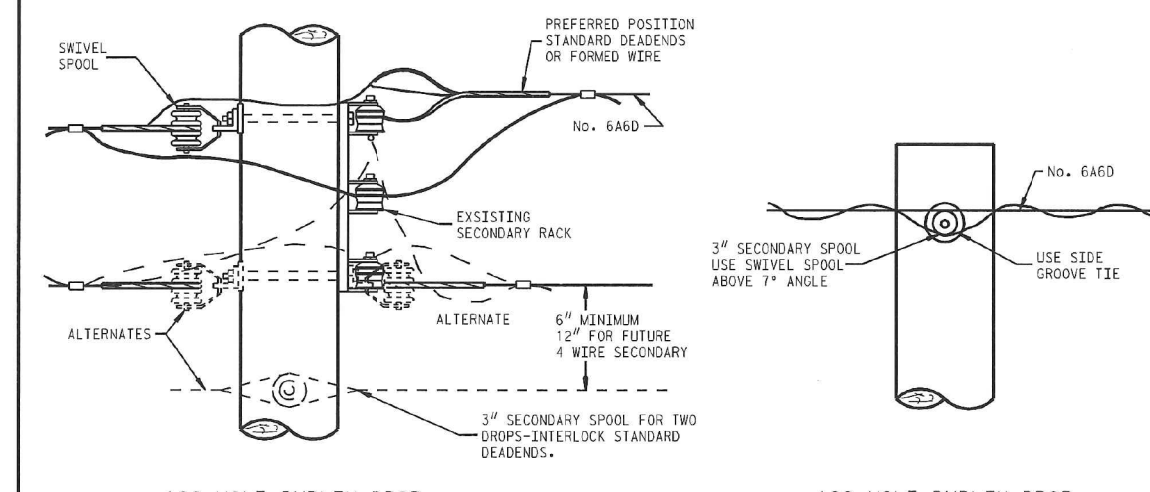


NOTES:

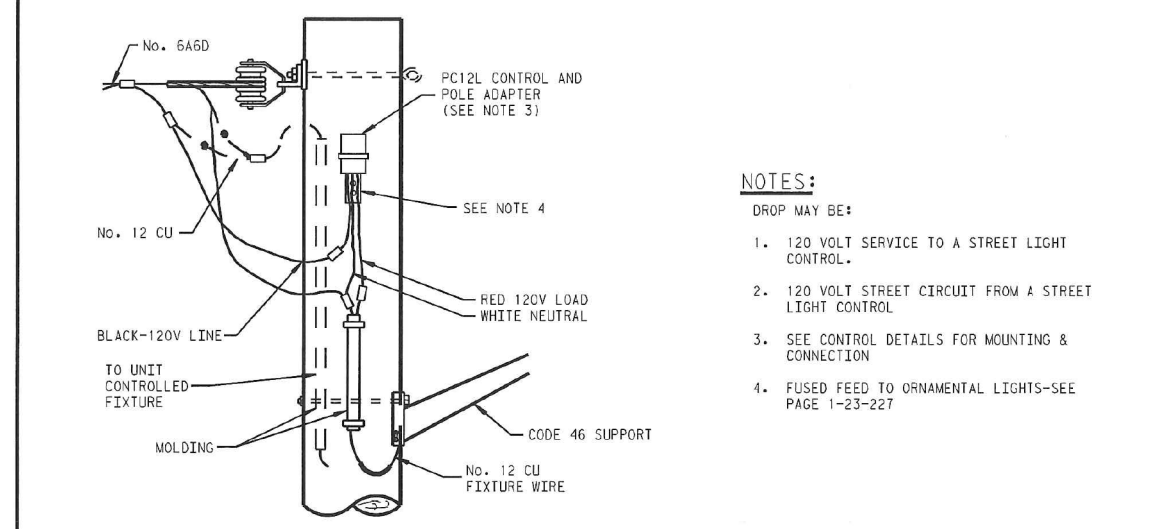
- REFER TO PAGE 1-23-422 FOR STANDARD LUMINAIRE LAMP SIZES AND CODES.
- STANDARD OVERHEAD STREET LIGHTING CONSISTS OF SIX HIGH PRESSURE SODIUM LAMPS - 70, 100, 250, 300, 400, AND 1000 WATT INSTALLED WITH OVERHEAD SERVICE ON WOOD POLES.
- A 360W HPS LAMP MAY BE USED WITH A 400W MERCURY VAPOR SERIES LUMINAIRE ONLY.

STANDARD OVERHEAD  
STREET LIGHT INSTALLATION

23-STREET LIGHTING



120 VOLT DUPLEX DROP  
FROM LINE POLE  
DETAIL 23202A



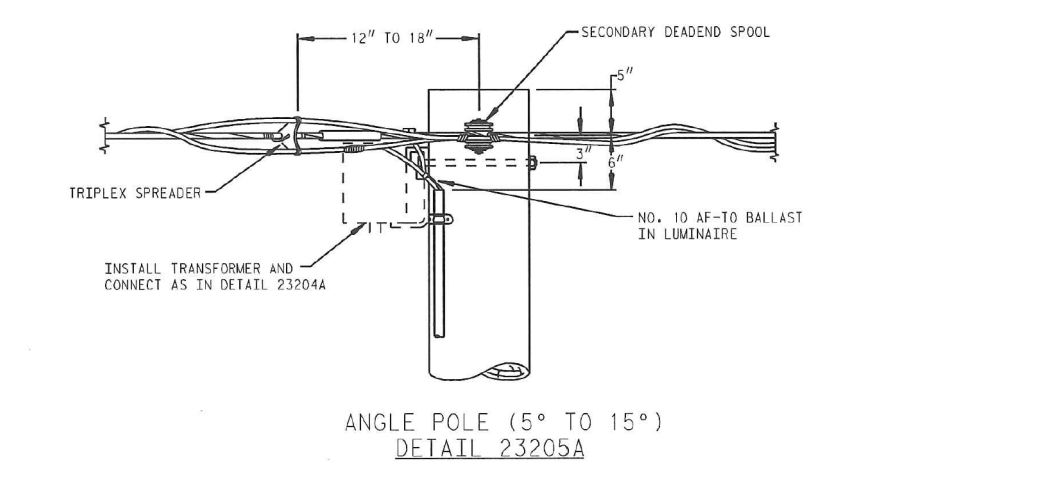
120 VOLT DUPLEX DROP  
ON FIXTURE POLE  
DETAIL 23202B

NOTES:

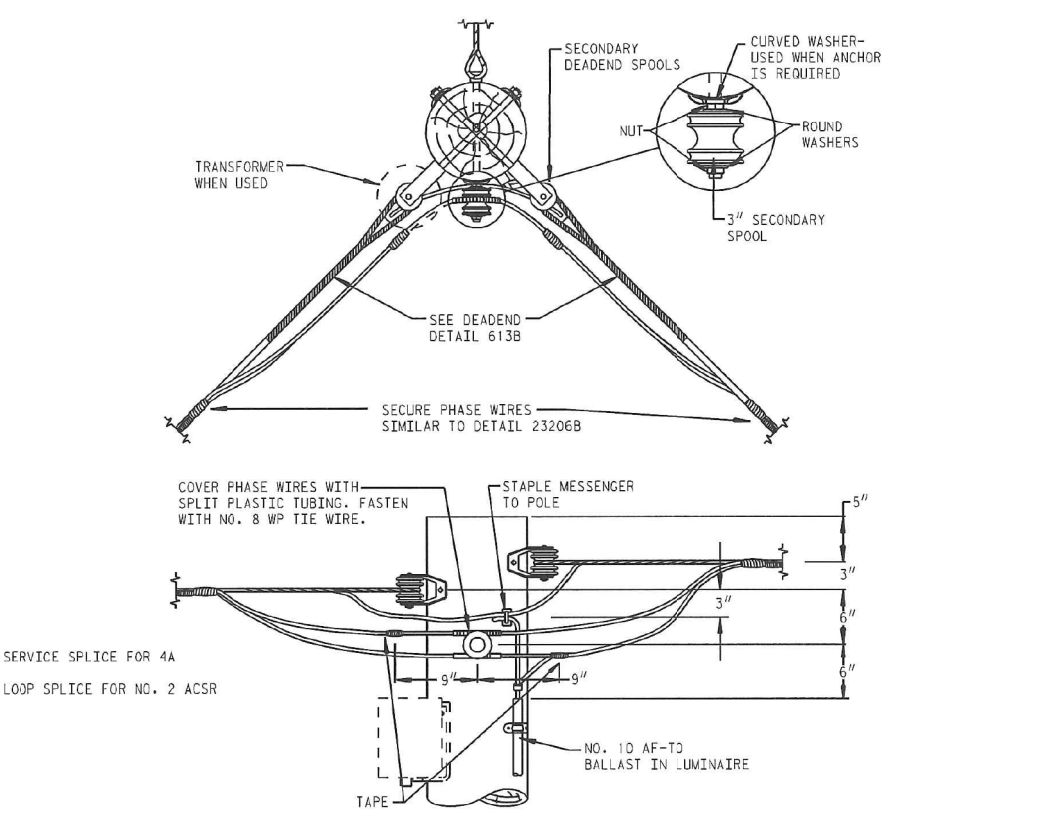
- DROP MAY BE USED FOR 120 VOLT SERVICE TO A STREET LIGHT CONTROL.
- 120 VOLT STREET CIRCUIT FROM A STREET LIGHT CONTROL.
- SEE CONTROL DETAILS FOR MOUNTING & CONNECTION.
- FUSED FEED TO ORNAMENTAL LIGHTS-SEE PAGE 1-23-227.

STREET LIGHT DROP  
120 VOLT SERVICE OR CIRCUIT

23-STREET LIGHTING



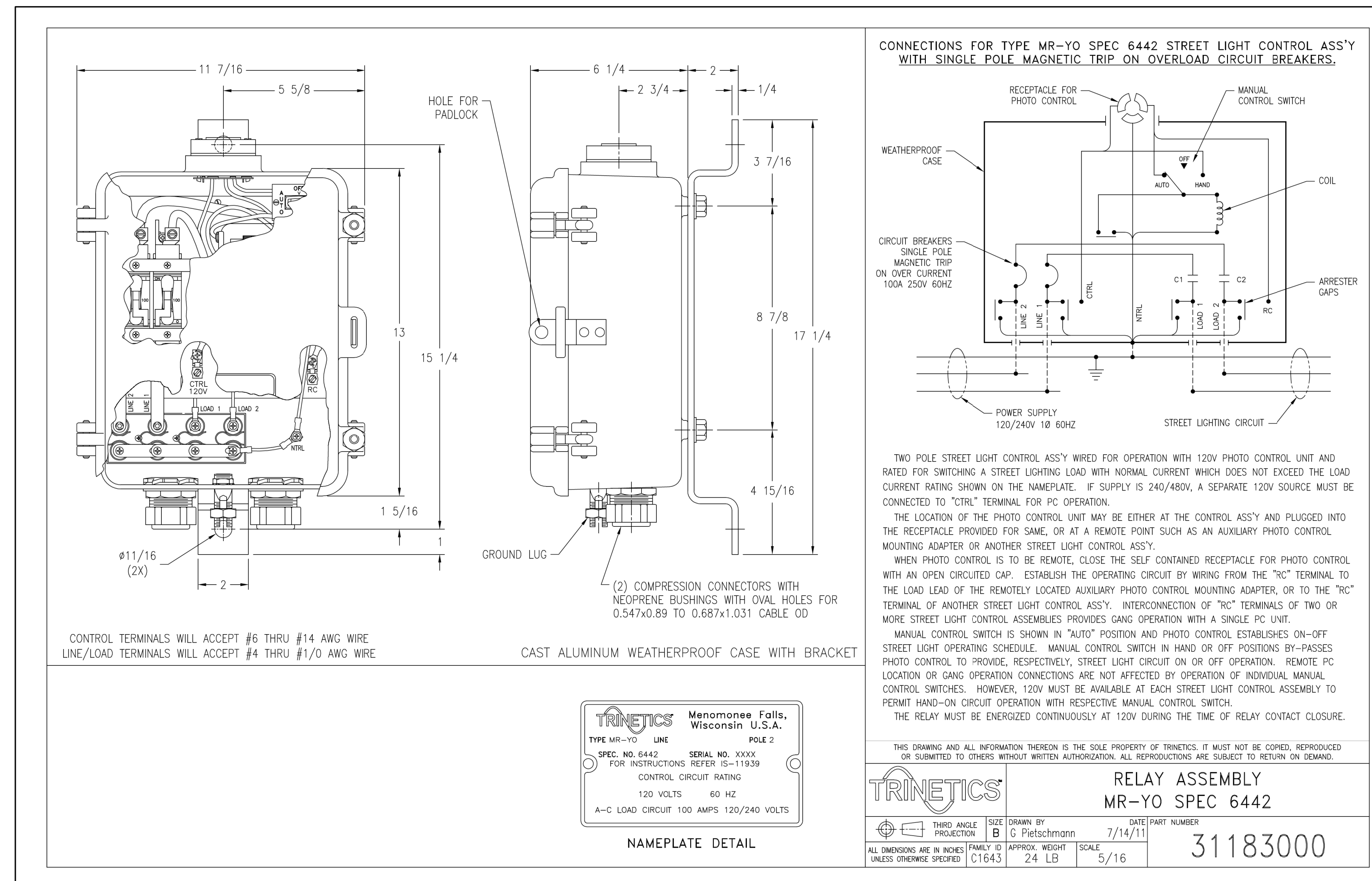
ANGLE POLE (5° TO 15°)  
DETAIL 23205A



ANGLE POLE OVER 15°  
DETAIL 23205B

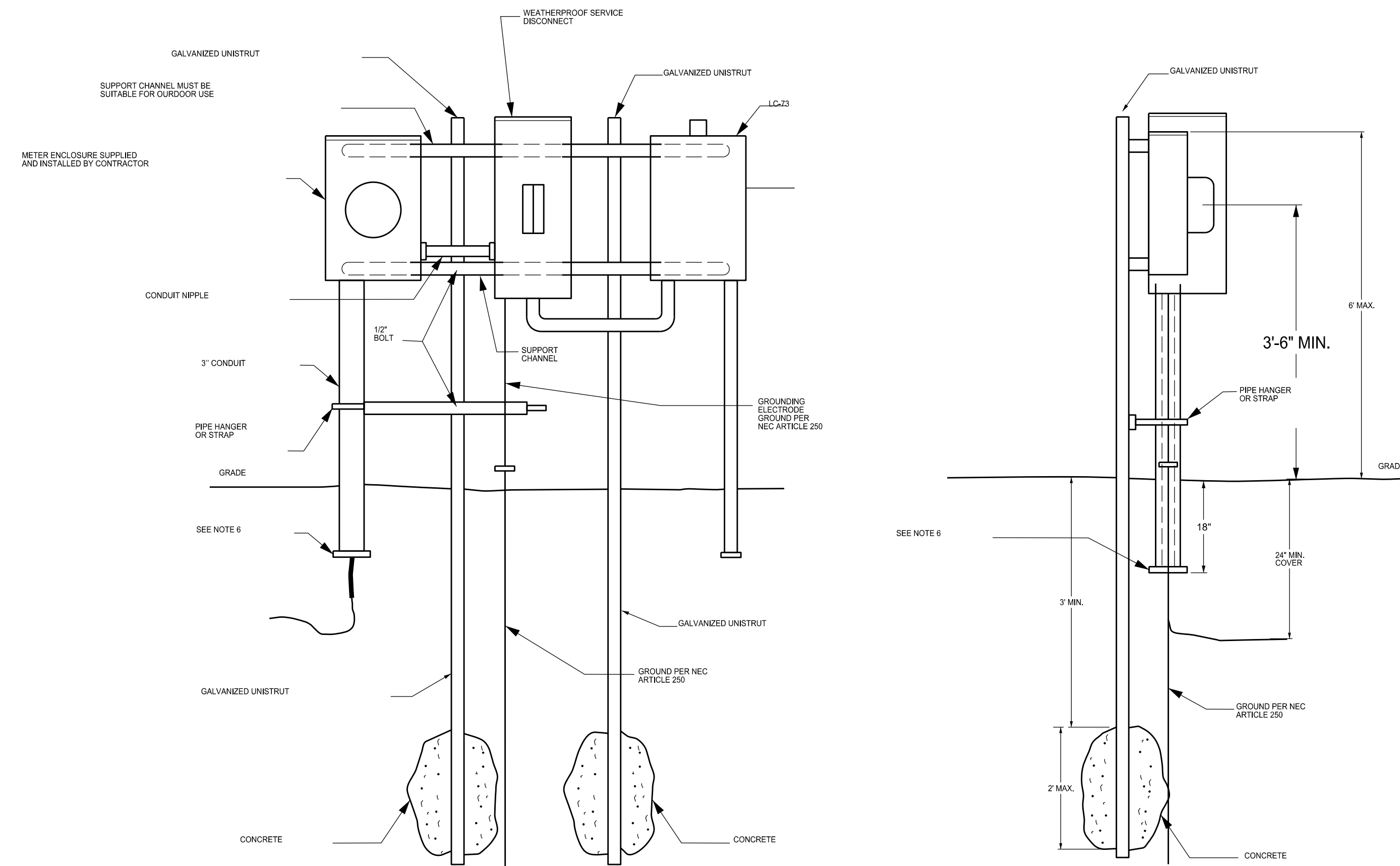
120 OR 240 VOLT  
CIRCUIT NO. 4A2T LINE TRIPLEX

# LIGHTING CONTROLLER DETAILS



# UNDERGROUND METERED SERVICE

POST MOUNTED UNDERGROUND 100 AMP METERED



**NOTES:**

1. ALL POST MOUNTED SERVICE EQUIPMENT IS OWNED AND MAINTAINED BY THE CUSTOMER.
2. METER BOX:
  - 1 PH CL 200 FOR 100 AMP
  - 3' 6" MINIMUM HEIGHT TO CENTER OF METER FACE FROM GRADE AND 6" MAXIMUM TO TOP OF METER BOX.
3. USE GALVANIZED UNISTRUT. WOOD POSTS ARE NOT ALLOWED. THE POST MUST BE INSTALLED PLUMB AND REMAIN PLUMB AT ALL TIMES.
4. SERVICE DISCONNECT AND RACEWAYS MUST BE RAINTIGHT.
5. SUPPORT CHANNEL OR ANGLE IRON SHOULD BE BOLTED TO POST WITH 1/2" BOLTS AND WASHER OR 3/8" U-BOLTS OR PIPE HANGER CLAMPS DESIGNED FOR THAT USE.
6. PVC CONDUIT MUST BE TRIMMED TO REMOVE SHARP EDGES.
7. A SYSTEM GROUNDING ELECTRODE MUST BE INSTALLED IN COMPLIANCE WITH N.E.C. 250.
8. ADDRESS MUST BE PERMANENTLY MARKED ON METER ENCLOSURE. USE PERMANENT LETTER OR STICKERS.

**IDENTIFICATION TAG TEXT LEGENDS**

**LIGHTING CONTROLLER (LC) ID TAG NAMING CONVENTION LEGEND**

THE FORMAT FOR LIGHTING CONTROLLER ID TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

LCVVWXX

THE SECTIONS SEPARATED FOR CLARITY ARE LC-VV-W-XX. THE LC STAND FOR LIGHTING CONTROLLER. THE V, W AND X ARE AS FOLLOWS:

- VV LAST TWO DIGITS OF THE ZIP CODE WHERE THE LIGHTING CONTROLLER IS LOCATED
- W ID ASSIGNED TO THE FIRM DESIGNING THE CIRCUIT. EXAMPLES INCLUDE:
  - M METRO ENGINEERING SOLUTIONS
  - T TETRA TECH
  - W C.E.A. AND WADE TRIM JOINT VENTURE
- XX ID ASSIGNED TO THE LIGHTING CONTROLLER (LC)

THE TAG SHALL HAVE THE LETTERS MOUNTED HORIZONTALLY WITH THE HOLDER MOUNTED VERTICALLY.

AN EXAMPLE LIGHTING CONTROLLER ID TAG IS:

LC16W30 AN LC INSTALLED IN THE 48230 ZIP THAT WAS LAID OUT BY THE C.E.A AND WADE TRIM JOINT VENTURE AND HAS BEEN ASSIGNED AN ID OF 30 IN THAT ZIP CODE.

**MATERIALS**

THE IDENTIFICATION TAGS FOR LIGHTING CONTROLLERS SHALL USE TECH PRODUCTS, INC. EVERLAST 1" VERTICALLY MOUNTED NUMBERS AND LETTERS WITH SOLID BLACK POLYPROPYLENE CHARACTERS EMBEDDED IN A BRIGHT YELLOW POLYPROPYLENE BACKGROUND. THE LETTERS SHALL BE STACKED VERTICALLY WITH THE HOLDER MOUNTED VERTICALLY ON THE POLE. EACH CHARACTER SHALL BE 0.70" TALL WHEN MOUNTED. THE TAG SHALL BE MOUNTED ON THE POLE'S STREETSIDE.

**CABLE ID TAG NAMING CONVENTION LEGEND**

THE FORMAT FOR CABLE TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

UUUVVWXYZ

THE SECTIONS SEPARATED FOR CLARITY ARE UUU-VV-W-XX-Y-Z. THE VV-W-XX COMES FROM THE ASSIGNED LIGHTING CONTROLLER ID. THE VARIOUS VALUES STAND FOR:

- UUU PLA FOR STREET LIGHTING CIRCUITS  
REC FOR RECEPTACLE CIRCUITS
  - VVWXX THE ASSIGNED LC ID. SEE THE LC NAMING CONVENTION
  - Y THE CIRCUIT BRANCH ID (1, 2, 3, 4, ETC.)
  - Z THE CONDUCTOR CLASSIFICATION
- CLASSIFICATIONS ARE:
- A A PHASE CONDUCTOR
  - B B PHASE CONDUCTOR
  - N NEUTRAL CONDUCTOR
  - G EQUIPMENT GROUND CONDUCTOR (EGC)

THE TAG SHALL HAVE THE LETTERS MOUNTED AND THE HOLDER MOUNTED HORIZONTALLY.

NOTE: CABLE TAG LABELS ARE GENERATED FOR THE CABLE(S) BEING TAGGED DEPENDING ON WHAT IS INCLUDED UNDER THE TAG. FOR INSTANCE, AN ENTIRE BRANCH CIRCUIT 4 CABLE BUNDLE INCLUDING 2 POWER LEGS, 1 NEUTRAL AND 1 EGC COULD BE TAGGED WITH A SINGLE UUU-VV-W-XX-Y TAG AS LONG AS THE CABLES ARE ALL PHYSICALLY TIED TOGETHER. WHEN AN ENTIRE BRANCH CIRCUIT IS BUNDLED AND TAGGED TOGETHER WITH A CIRCUIT IDENTIFIER OF UUU-VV-W-XX-Y THEN THE INDIVIDUAL CABLES IN THAT BUNDLE CAN BE TAGGED WITH JUST AN "A", "B", "N" OR "G".

NOTE: AN EQUIPMENT GROUND CONDUCTOR (EGC) CAN BE SHARED BETWEEN BRANCH CIRCUITS OR EVEN LIGHTING CONTROLLER CIRCUITS IF ALL THE CABLES SHARE THE SAME CONDUIT WHICH CREATES A UNIQUE TAGGING CONVENTION. THE EGC, IF TAGGED SEPARATELY, IS TAGGED TO INDICATE WHAT LEVEL OF SHARING IS USING THE EGC. THE LEVELS OF EGC TAGGING ARE:

- UUUVVXXYG AN EGC FOR A BRANCH CIRCUIT OR INDIVIDUAL PHASE BUNDLE
- UUUVVXXG AN EGC SHARED BETWEEN MULTIPLE BRANCH CIRCUITS
- EGC AN EGC SHARED BETWEEN DIFFERENT TYPES OF CIRCUITS OR LCS

NOTE: THERE EXISTS DECORATIVE LIGHTING WITHIN THE DETROIT LIGHTING AREA UTILIZING STRAND LIGHTING. THOSE CIRCUITS ARE BUNDLED TOGETHER AND GET A UNIQUE TAG OF "STRAND".

EXAMPLE CABLES TAGS ARE:

- PLA26W5A1A PLA STREET LIGHTING BRANCH CIRCUIT BUNDLE
- PLA26W5A1AA PLA STREET LIGHTING BRANCH CIRCUIT LAMP LOOP
- REC26W5A1A RECEPTACLE BRANCH CIRCUIT BUNDLE
- STRAND STRAND LIGHTING FEED CABLE BUNDLE

**MATERIALS**

THE IDENTIFICATION TAGS FOR CABLE CIRCUITS SHALL USE TECH PRODUCTS, INC. FASTTAGS MINIATURE MARKERS. THE TAGS SHALL HAVE BLACK RAISED LETTERING ON A YELLOW BACKGROUND. THE LETTERING SHALL BE ORIENTATED HORIZONTALLY AND IN A SINGLE LINE.

**LUMINAIRE ID TAG NAMING CONVENTION LEGEND**

THE FORMAT FOR LUMINAIRE ID TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

WXXXYYZZZ

THE SECTIONS SEPARATED FOR CLARITY ARE W-XXX-YYY-ZZZ. THE W, X, Y AND Z ARE AS FOLLOWS:

- W THE LUMINAIRE TYPE. SOME LUMINAIRE TYPES ARE:
  - L LIGHT EMITTING DIODE (LED) FIXTURE
  - S SODIUM VAPOR FIXTURE
- XXX THE LUMINAIRE WATTAGE. SOME EXAMPLES ARE:
  - 118 118W LUMINAIRE
  - 152 152W LUMINAIRE

THESE WATTAGES ARE REGARDLESS OF THE LUMINAIRE TYPE.

YYY THE ALPHA PORTION OF THE PLA ASSIGNED LUMINAIRE ID.

ZZZ THE NUMERIC PORTION OF THE PLA ASSIGNED LUMINAIRE ID.

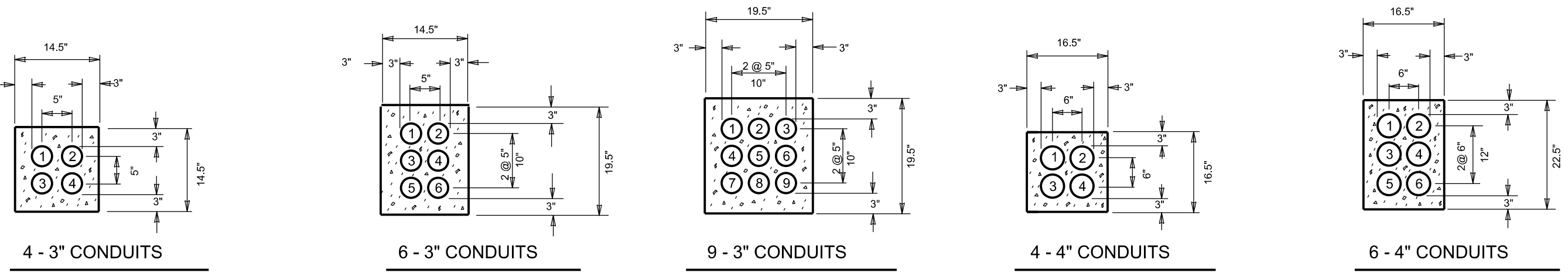
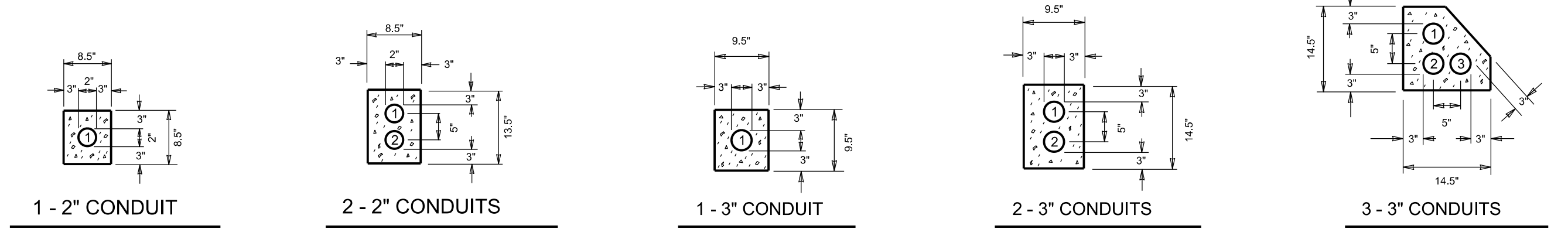
THE TAG SHALL HAVE THE LETTERS MOUNTED HORIZONTALLY WITH THE HOLDER MOUNTED VERTICALLY.

AN EXAMPLE LUMINAIRE ID TAG IS:

L118AFK941 A 118W LED LUMINAIRE WITH THE PLA ID OF AFK941.

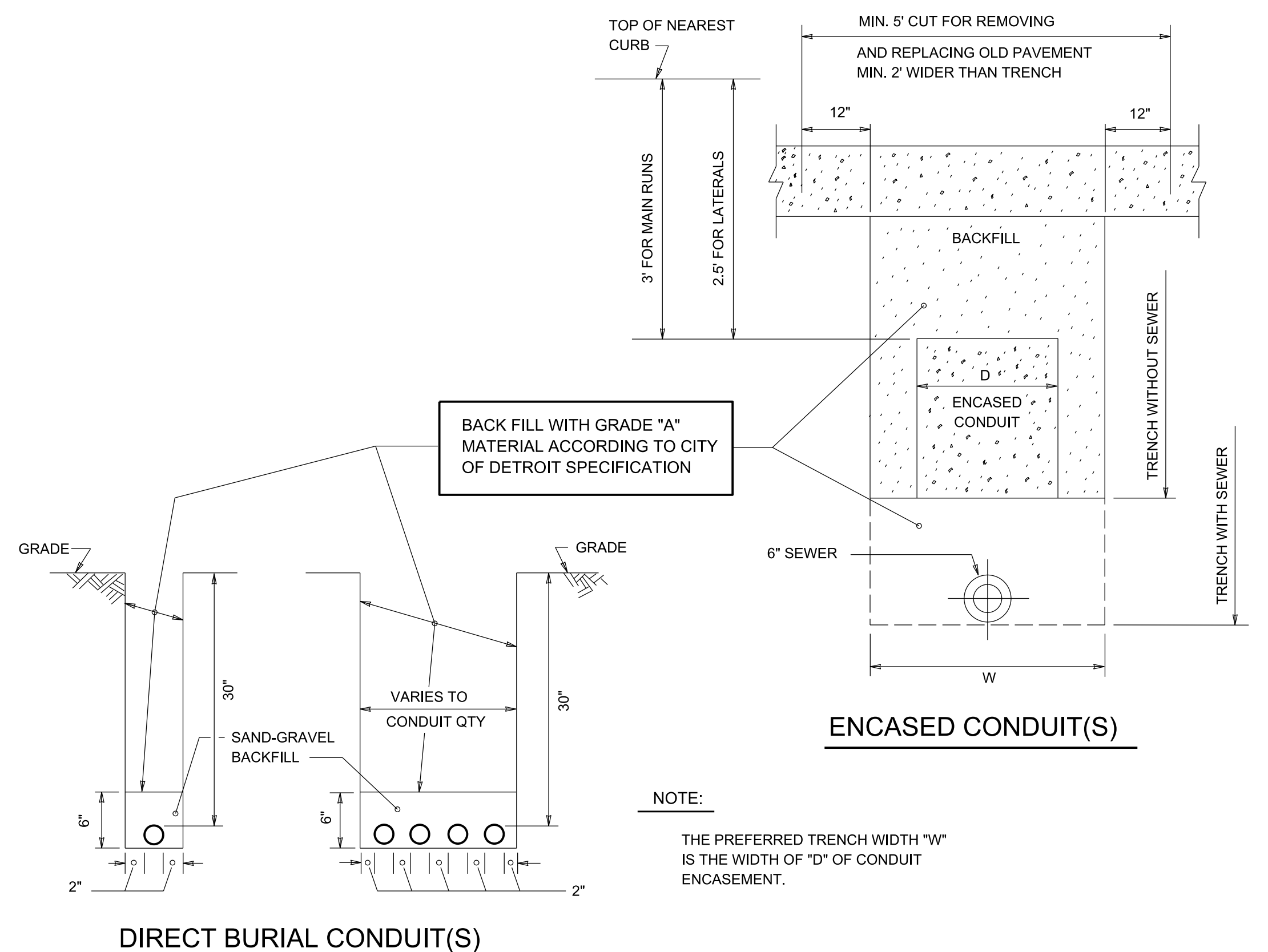
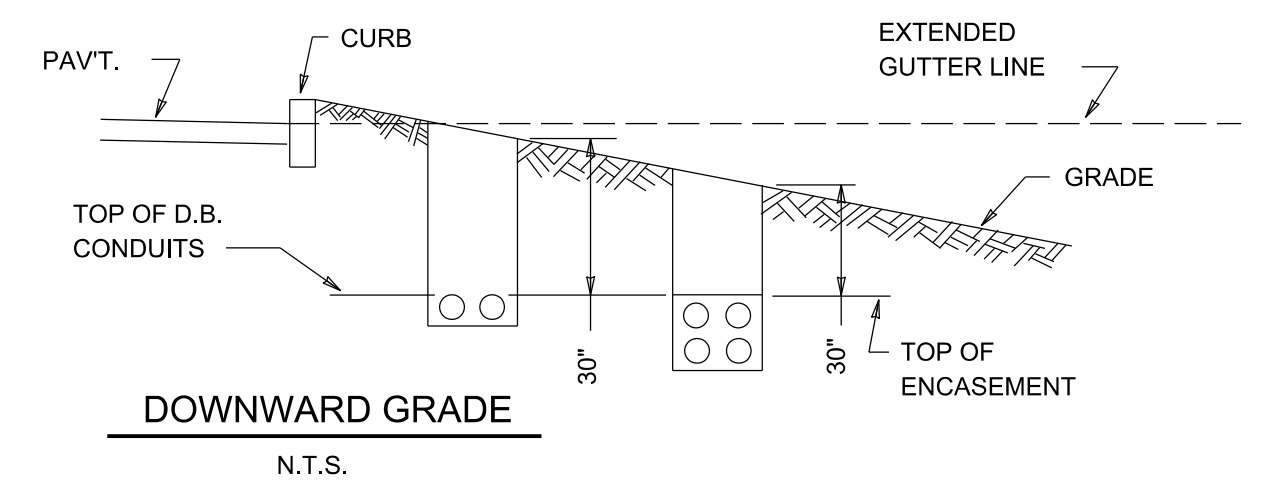
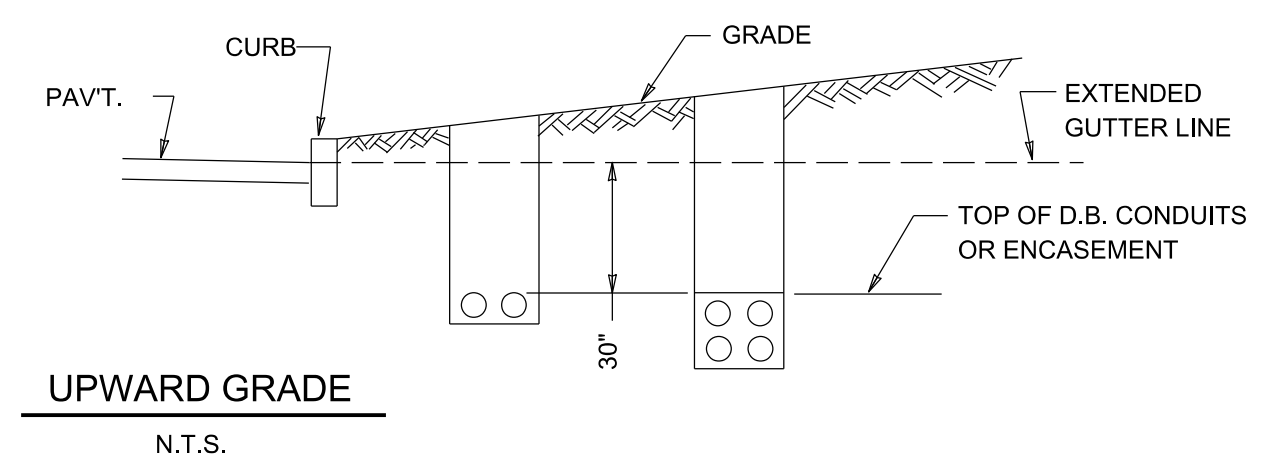
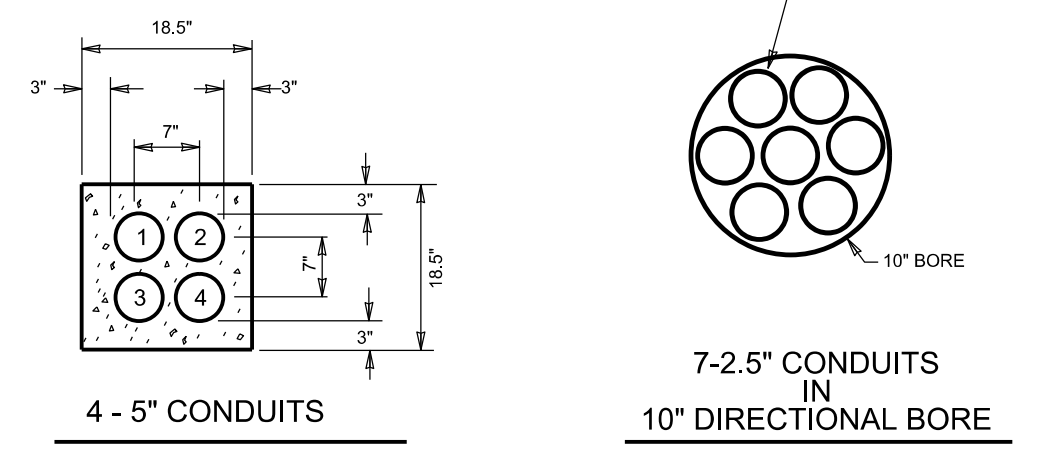
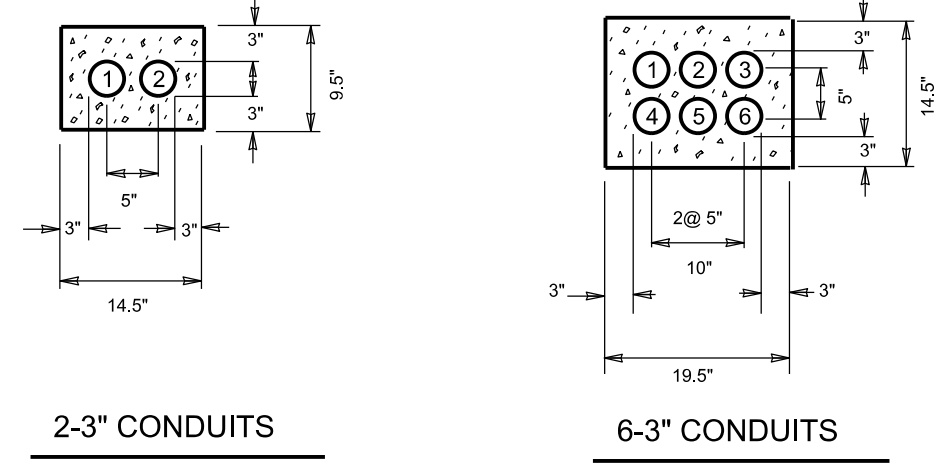
**MATERIALS**

THE IDENTIFICATION TAGS FOR LUMINAIRES SHALL USE TECH PRODUCTS, INC. EVERLAST 1" VERTICALLY MOUNTED NUMBERS AND LETTERS WITH SOLID BLACK POLYPROPYLENE CHARACTERS EMBEDDED IN A BRIGHT YELLOW POLYPROPYLENE BACKGROUND. THE LETTERS SHALL BE STACKED VERTICALLY WITH THE HOLDER MOUNTED VERTICALLY ON THE POLE. EACH CHARACTER SHALL BE 0.70" TALL WHEN MOUNTED. A TAG IS MOUNTED ON THE POLE FOR EACH INDIVIDUAL LUMINAIRE ON THE POLE. THE TAG(S) SHALL BE MOUNTED ON THE POLE'S STREETSIDE.

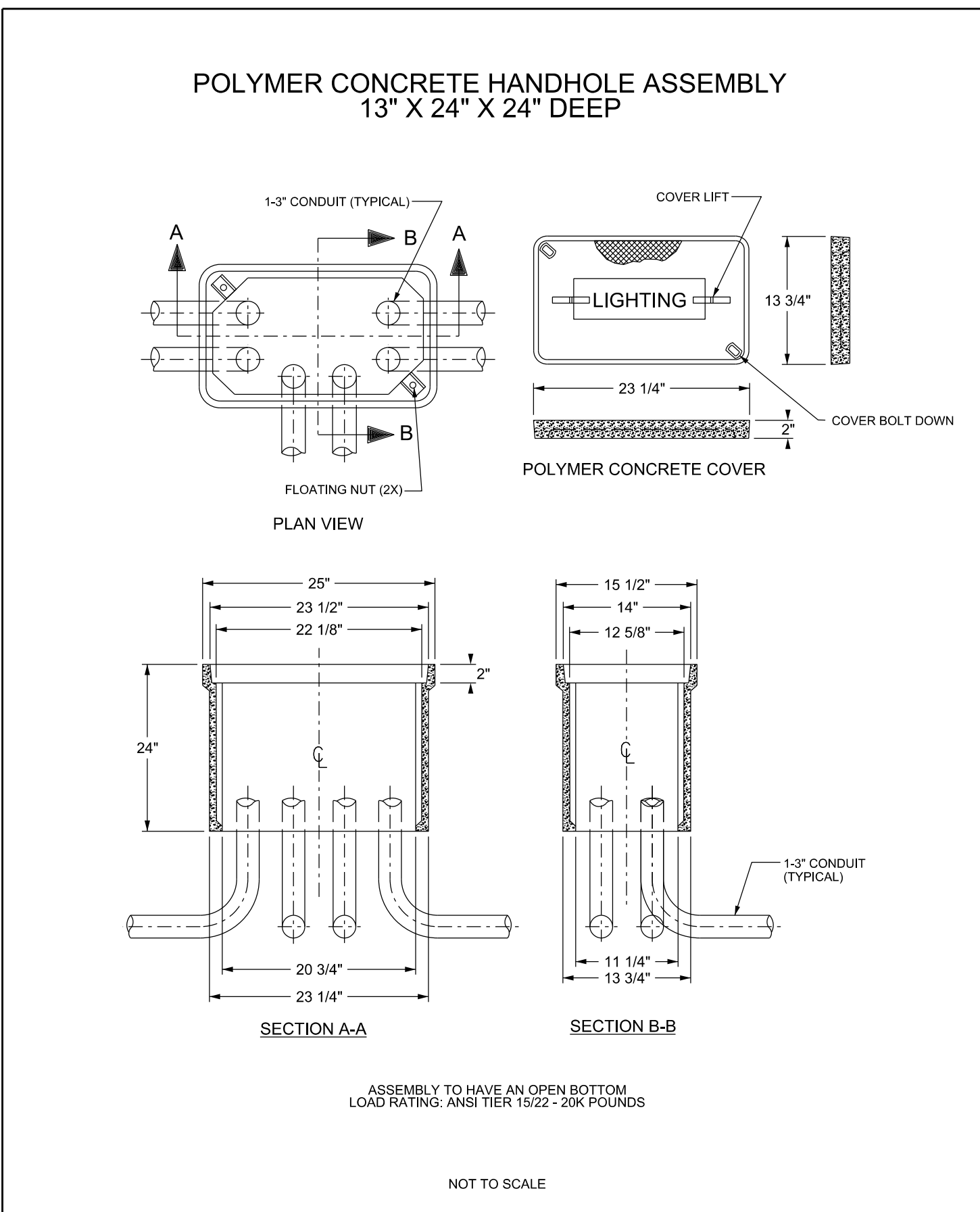


**ALTERNATE ARRANGEMENT OF 3" CONDUIT**

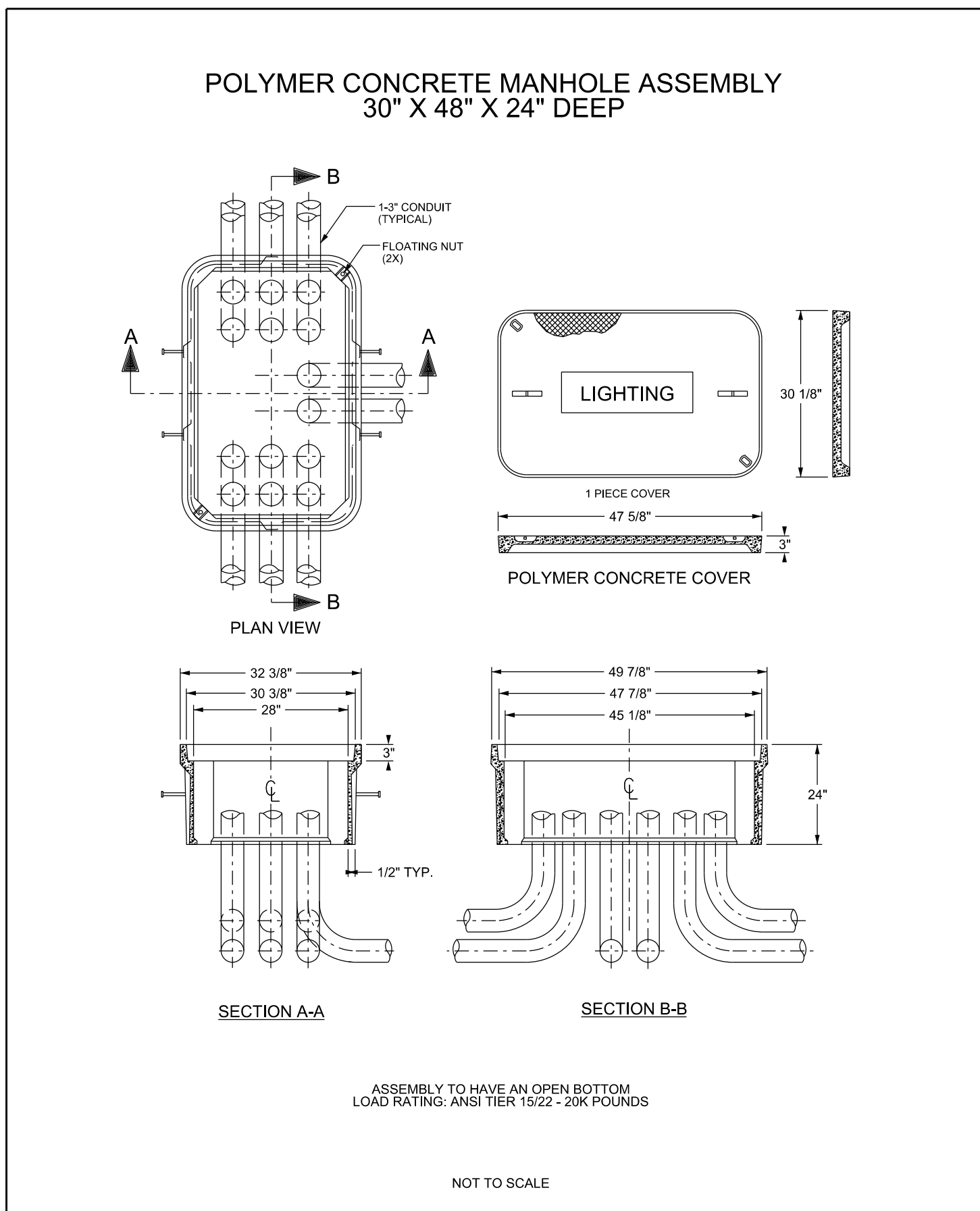
(TO SUIT FIELD CONDITIONS)  
(TO BE APPROVED BY THE ENGINEER)



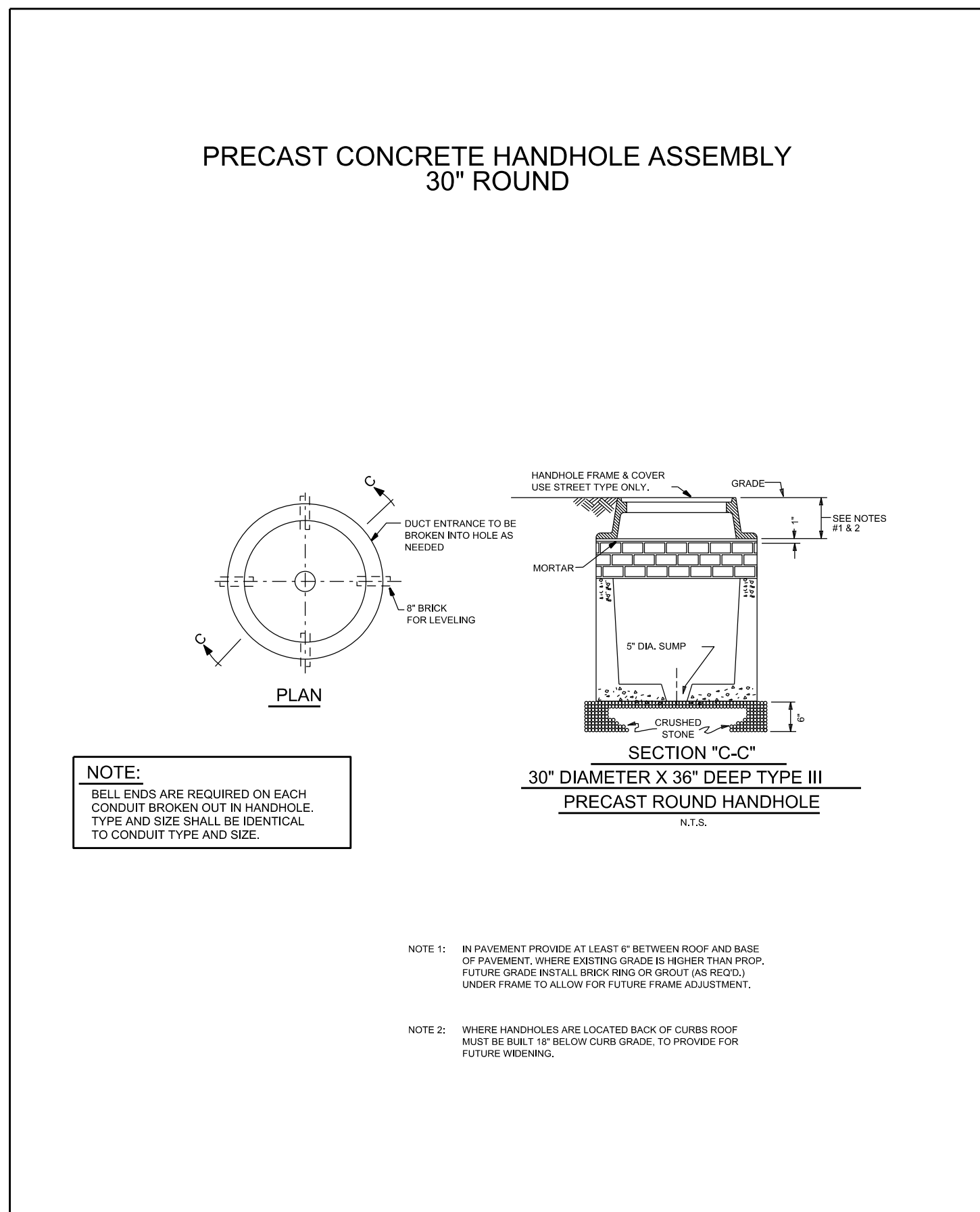
UGD-001 POLYMER HANDHOLE DETAILS



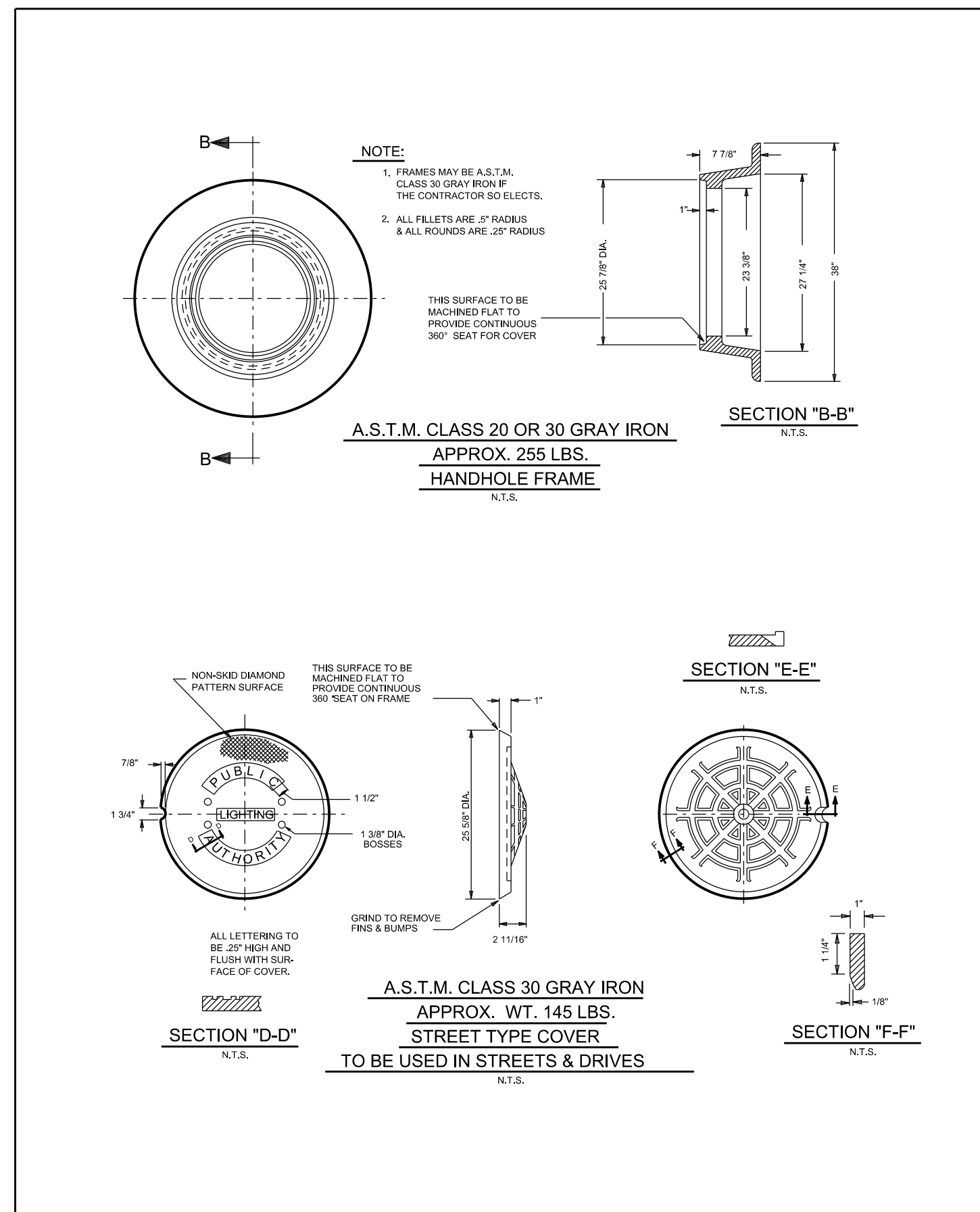
UGD-002 POLYMER MANHOLE DETAILS



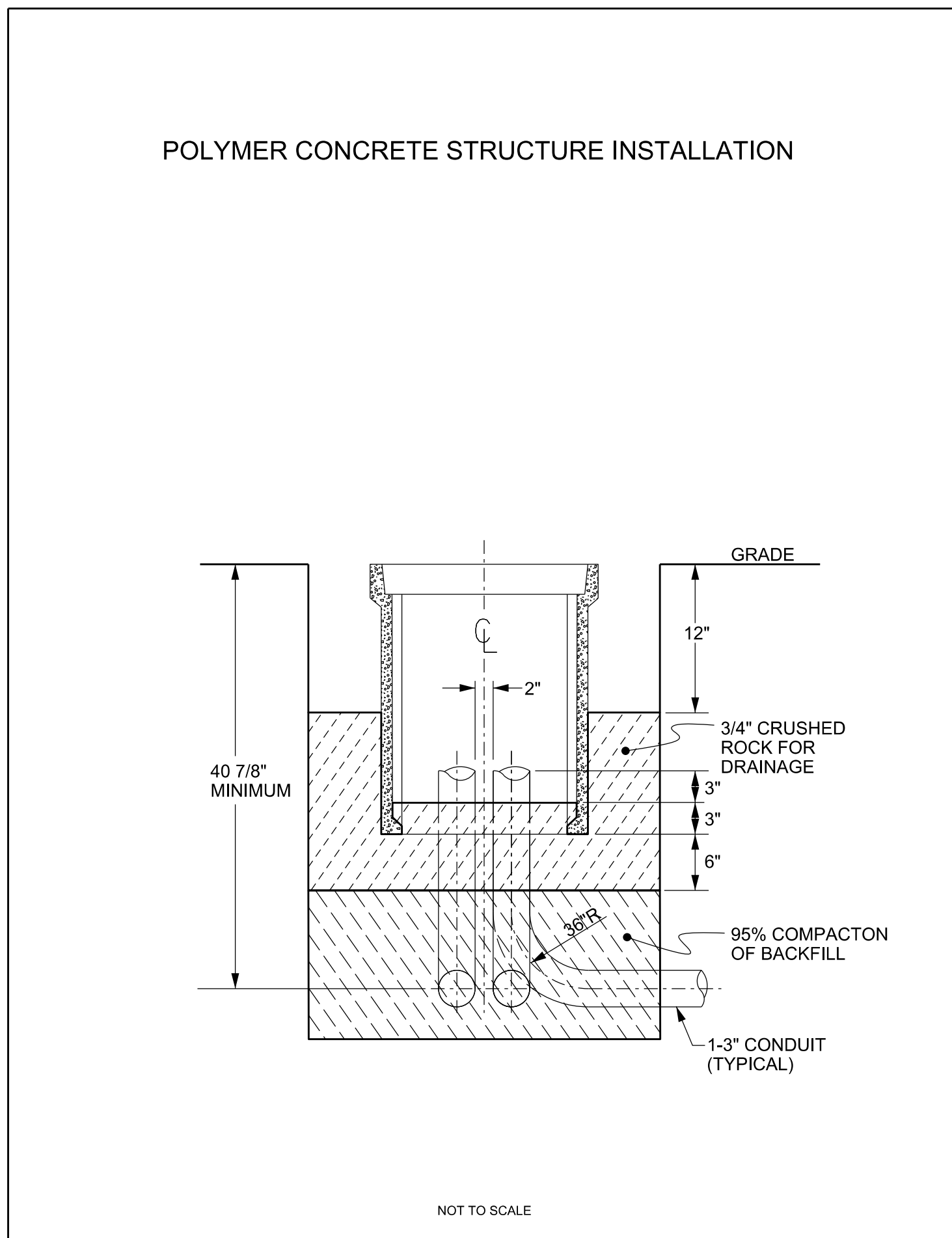
UGD-003 ROUND HANDHOLE DETAILS



UGD-005 FRAME AND COVER DETAILS



POLYMER CONCRETE STRUCTURE INSTALLATION

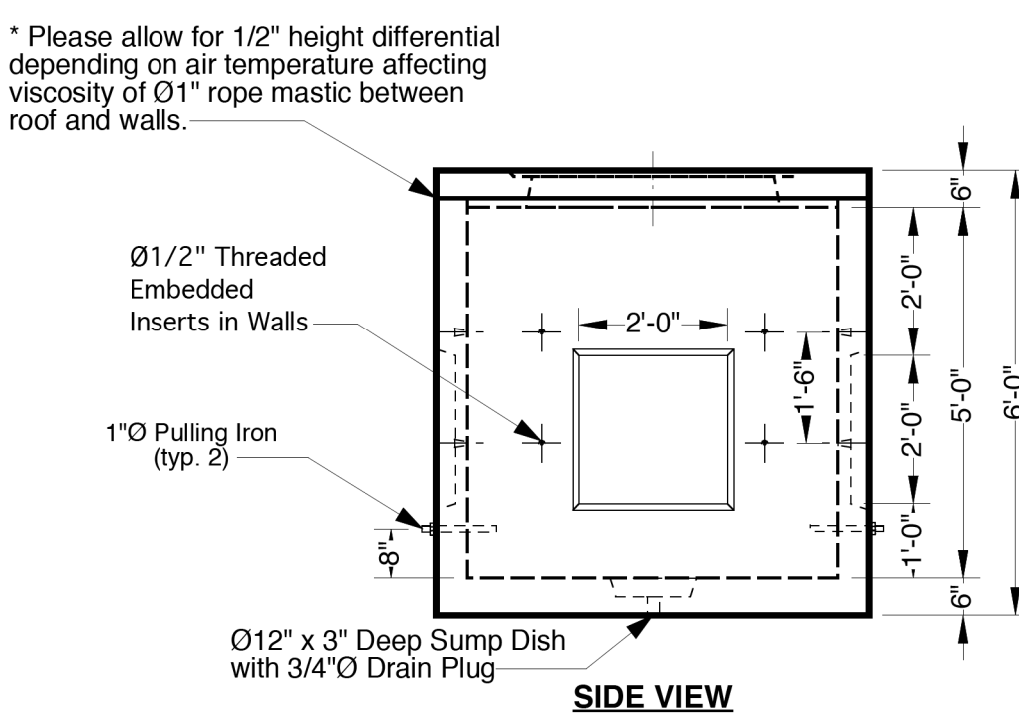
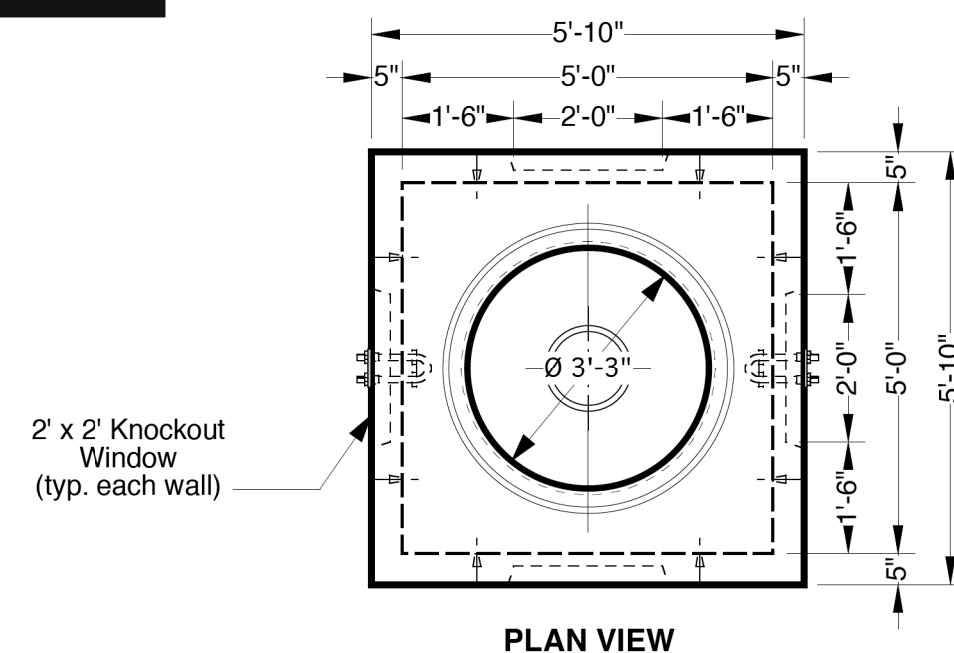


UGD-004 SQUARE HANDHOLE DETAILS



5' x 5' x 5' Handhole  
Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.  
Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar.  
Bar Bending And Placement Shall Comply With The Latest ACI Standards.  
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.  
1\"/>

- Options -  
Cast Iron Heavy Duty Frames & Covers  
Galvanized Steel Hardware  
6\", 12\"/>

**Approximate Weight** Total: ± 10,900 Lbs.  
Bottom Section: ± 8,900 Lbs. Roof: ± 2,000 Lbs.

NOTE:  
PROVIDE WITH PUBLIC LIGHTING AUTHORITY FRAME AND COVER