

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
59	2839 HARRISON / 2906 EASTERN - PROPERTY ACQUISITIONS
60	2905 EMMONS PARKING
77	PARKING LOTS LAYOUT PLAN
137	PARKING LOTS MATERIALS PLAN
138	PLANTING PLAN - EMMONS AVENUE TREES
144	PLANTING PLAN - HARRISON AVENUE LOT
149	PARKING LOTS IRRIGATION PLAN
152 - 153	LANDSCAPE PLANTING DETAILS
	JOHNNY BLACK'S (HARRISON AVE) LOT LIGHTING PLANS & DETAILS
	EMMONS AVENUE LOT LIGHTING PLANS & DETAILS

JOB BENCHMARK #210 SET COTTON SPINDLE IN W/FACE OF UTIL POLE E/SIDE OF CULBERTSON ±66' S OF TP#110 ELEV 715.52
JOB BENCHMARK #211 SET COTTON SPINDLE IN W/FACE UTIL POLE IN NE QUAD OF N ALLEY AND EMMONS ELEV 713.03
JOB BENCHMARK #212 SET COTTON SPINDLE IN E/FACE OF UTIL POLE IN NW QUAD OF N ALLEY & LONGVIEW ELEV 715.98
JOB BENCHMARK #213 SET COTTON SPINDLE IN S/FACE OF UTIL POLE IN NW QUAD OF N ALLEY & HARRISON ELEV 714.24
JOB BENCHMARK #214 SET COTTON SPINDLE IN W/FACE OF UTIL POLE IN NE QUAD OF N ALLEY & EASTERN ELEV 712.93
JOB BENCHMARK #221 SET WEST BOLT ON LIGHT POLE BASE ±15' SE OF TP#121 ELEV 714.03
JOB BENCHMARK #222 SET COTTON SPINDLE IN W/FACE OF UTIL POLE E OF ALLEY, E OF GERALD ELEV 712.79
TRAVERSE POINT #111 N 417180.31 E 13463962.89 ELEV 711.66
TRAVERSE POINT #112 N 417270.50 E 13464334.26 ELEV 714.57
TRAVERSE POINT #113 N 417359.45 E 134646574.60 ELEV 712.49
TRAVERSE POINT #114 N 417459.98 E 13464981.02 ELEV 711.35
TRAVERSE POINT #120 N 417115.50 E 13463676.12 ELEV 714.17
TRAVERSE POINT #121 N 417469.21 E 13465069.28 ELEV 710.94
TRAVERSE POINT #122 N 417544.88 E 13465259.36 ELEV 709.94

#### GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, AASHTO'S 2017 A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND MDT'S 2017 GUIDELINES FOR GEOMETRICS ON LOCAL AGENCY PROJECTS, BOTH 3R AND 4R GUIDELINES.

PAVEMENT MARKING AND PLACING OF TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION. THIS WORK WILL BE DONE PRIOR TO THE FINAL ACCEPTANCE OF THIS PROJECT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ROCHESTER HILLS WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY.

THE ELEVATIONS ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

# CITY OF ROCHESTER HILLS OAKLAND COUNTY, MICHIGAN AUBURN ROAD PUBLIC PARKING LOTS

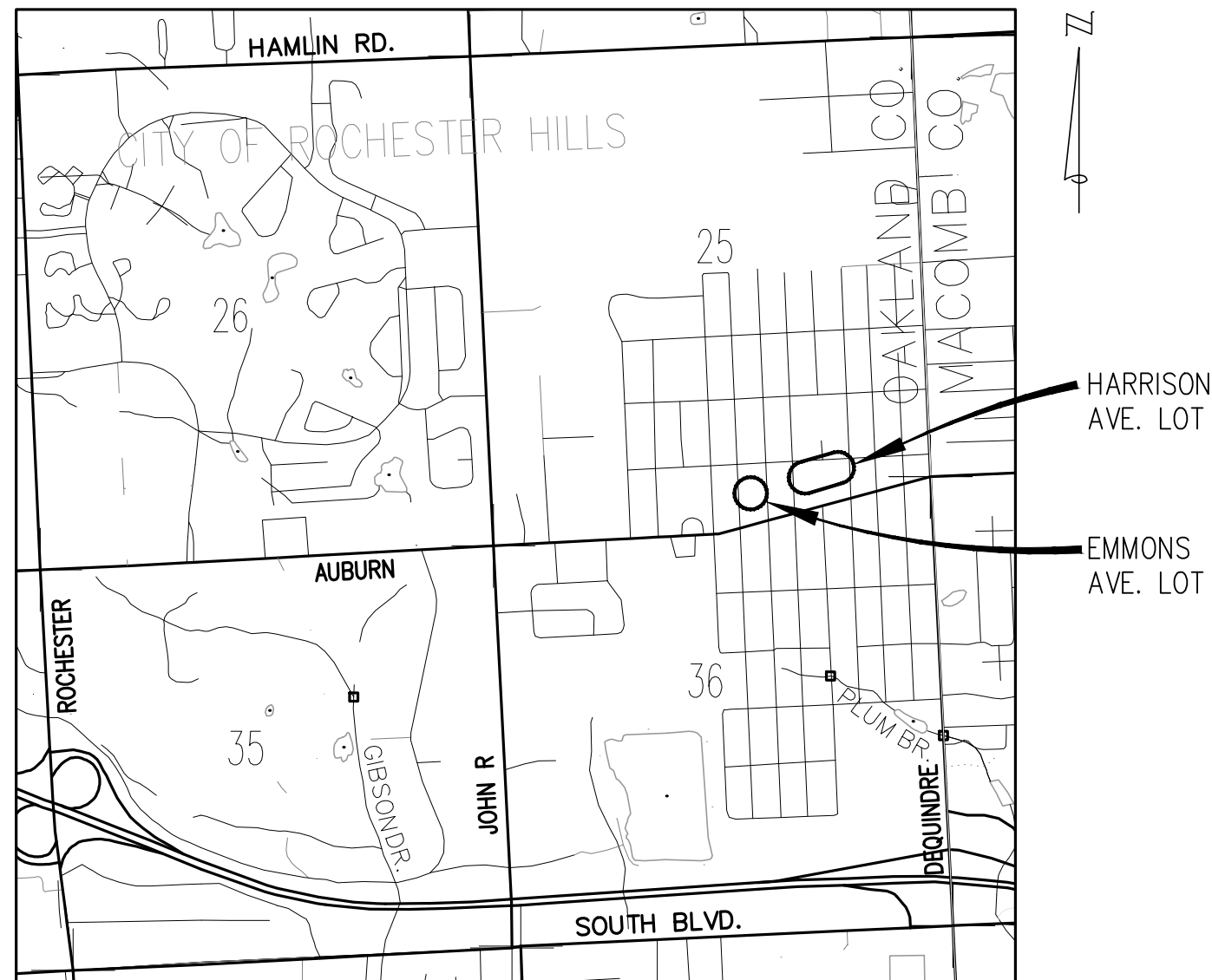
## CITY OF ROCHESTER HILLS

BRYAN K. BARNETT  
•MAYOR•

MARK TISDEL  
STEPHANIE MORITA  
DALE A. HETRICK  
DAVID WALKER  
RYAN DEEL  
SUSAN BOWYER  
JIM KUBICINA  
•COUNCIL MEMBERS•

ALLAN E. SCHNECK, P.E.  
• DIRECTOR OF PUBLIC SERVICE •

PAUL DAVIS  
• CITY ENGINEER/DPS DEPUTY DIRECTOR •



LOCATION MAP

CONTRACT FOR: CONSTRUCTION OF TEN PUBLIC ALLEYS OFFSET FROM AUBURN ROAD (EACH APPROXIMATELY 320') AND PRIVATE SITE IMPROVEMENTS FROM CULBERTSON AVENUE TO HESSEL AVENUE.



34000 Plymouth Road | Livonia, MI 48150  
p (734) 522-6711 | f (734) 522-6427

PREPARED UNDER THE SUPERVISION OF:



38735  
Registration No.

MARK LOCH, P.E.

2/8/19  
Date

CITY OF ROCHESTER HILLS APPROVAL:

ALLAN E. SCHNECK, P.E.  
Public Services Director

Date

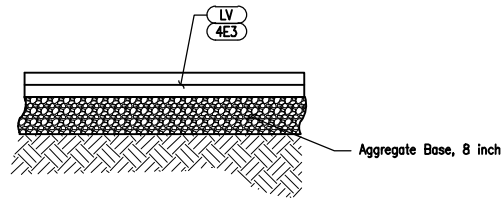
PAUL M. DAVIS, P.E.  
City Engineer/Deputy Director

Date

REVISIONS

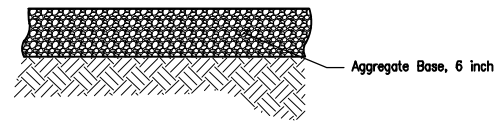
PROJECT NO.  
0190-17-0020

SHEET NO.  
1 OF 162



**PROPOSED PARKING LOT DETAIL**  
SCALE: NTS

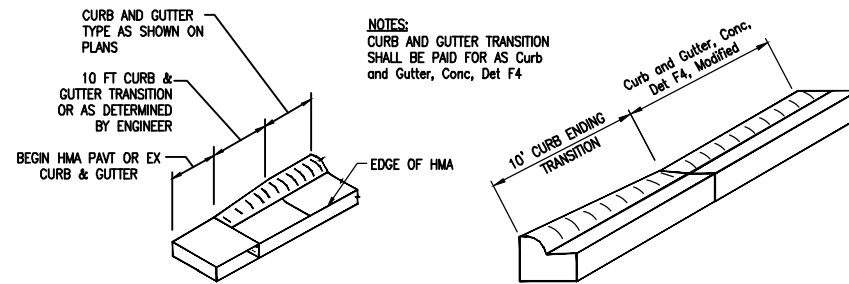
APPLIES TO: EMMONS PARKING LOT & HARRISON PARKING LOT



**PROPOSED GRAVEL DRIVEWAY DETAIL**  
SCALE: NTS

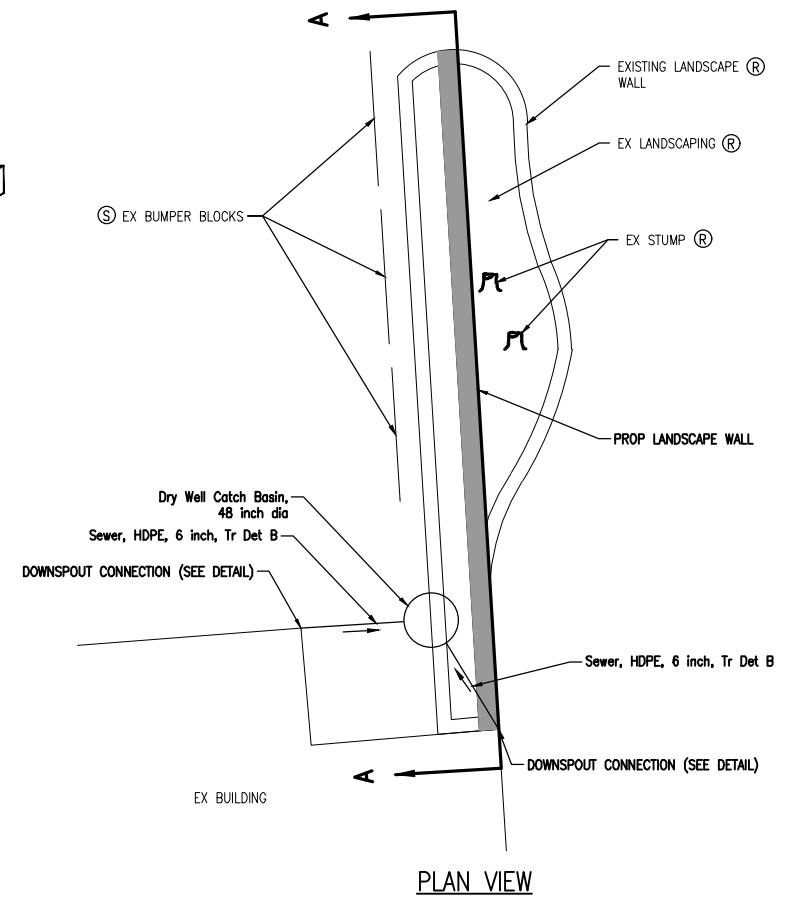
APPLIES TO: HOUSE #1765 AUBURN

PERMANENT HMA APPLICATION CHART					
SYMBOL	PAY ITEM	RATE (LB/SYD)	DEPTH (IN)	PERFORMANCE GRADE	REMARKS
5E3	HMA, 5E3	165 LB	1.5	64-22	TOP COURSE, AMI = 260 MINIMUM
4E3	HMA, 4E3	220 LB	2	64-22	LEVELING COURSE, ALLEY, PARKING LOTS
3E3	HMA, 3E3	275 LB	2.5	58-22	BASE COURSE
HA	HMA APPROACH	660 LB	6	64-22 64-22 58-22	1.5" 5E3 2" 4E3 2.5" 3E3
HP	HAND PATCHING	VARIES	VARIES	64-22	HMA, 5E3
LV	LVSP	220 LB	2	58-22	PARKING LOT
-	-	0.05 - 0.15 GAL/SYD	-	TYPE SS-1h	BOND COAT - TO BE APPLIED BETWEEN EACH LIFT OF NEW PERMANENT HMA & EACH LIFT OF NEW TEMPORARY HMA (TYP)

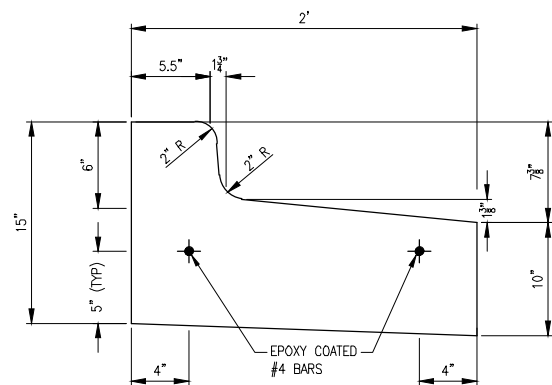


**TRANSITION BETWEEN SHOULDER & STANDARD CURB AND GUTTER (AS SPECIFIED ON PLANS)**

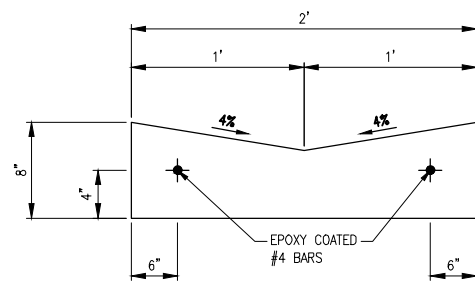
TO APPLY: AT ALL CURB TRANSITIONS AS SHOWN IN PLANS



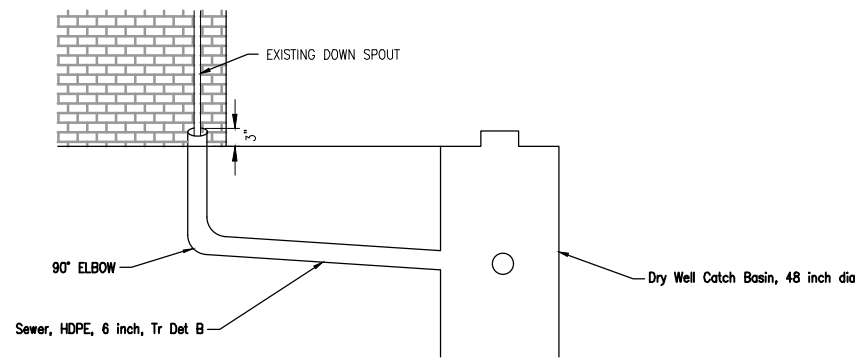
**PLAN VIEW**



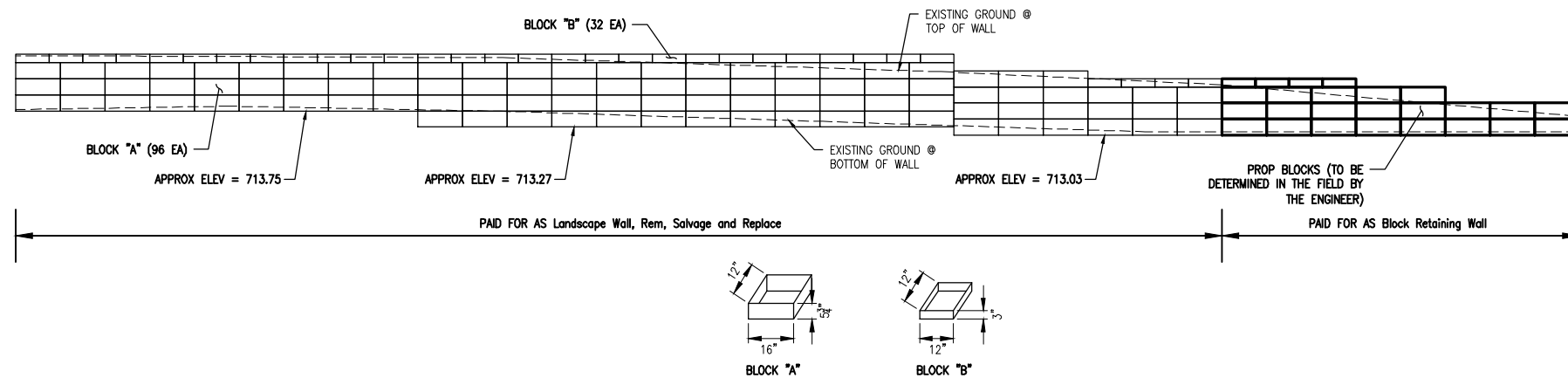
**CURB AND GUTTER, CONC, DET F4, MODIFIED (SPILLOUT)**  
NOT TO SCALE



**VALLEY GUTTER, CONC, MODIFIED**  
NOT TO SCALE



**DOWNSPOUT TO DRYWELL DETAIL**



**SECTION A-A**

**SALVAGED LANDSCAPE WALL DETAIL FOR #1669 & #1681 AUBURN**

DRAWING PATH: \\vsm\66\Corporate\Projects\0166\_020101\017020\_Auburn\_Road\_Reconstruction\Drawings\Civil\Details\17020DET\_SITE.dwg Mar 13, 2019 - 3:09pm

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**Hydrodynamic Separator Sizing Based on the Oakland County, MI Sizing Methodology**

**Project Name:** Auburn Road Alley and Site Improvements  
**Location:** Rochester Hills, MI  
**Date:** 2/8/2019

**SITE CHARACTERISTIC INPUT**

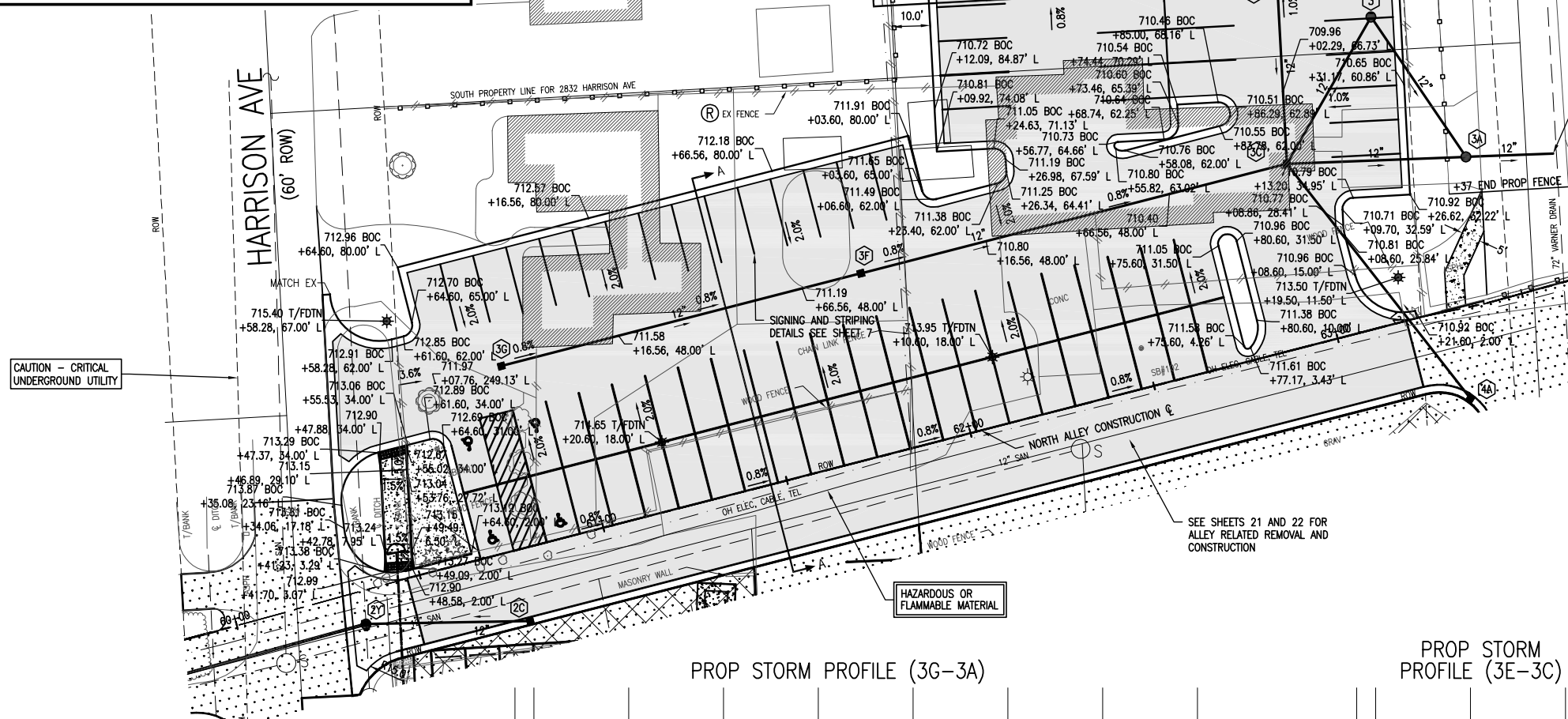
Drainage Area, A (acres)	0.906
Runoff Curve Number (RCN)	81
Time of Concentration, T <sub>c</sub> (hours)	0.27
Pond and Swamp Adjustment Factor, F <sub>p</sub>	1

**ASSUMPTIONS**

Rain Event Return Frequency	2 Year, 24 Hour
Rainfall Data, P (in)	2.24
Runoff, R <sub>o</sub> (in) (Table 2-1)	0.9

**CALCULATIONS**

Initial Abstraction, I <sub>a</sub> (in)	0.469
I <sub>a</sub> /P	0.209
Unit Peak Discharge, q <sub>u</sub> (csm/in)	650
Peak Discharge, q <sub>p</sub> (cfs)	0.9



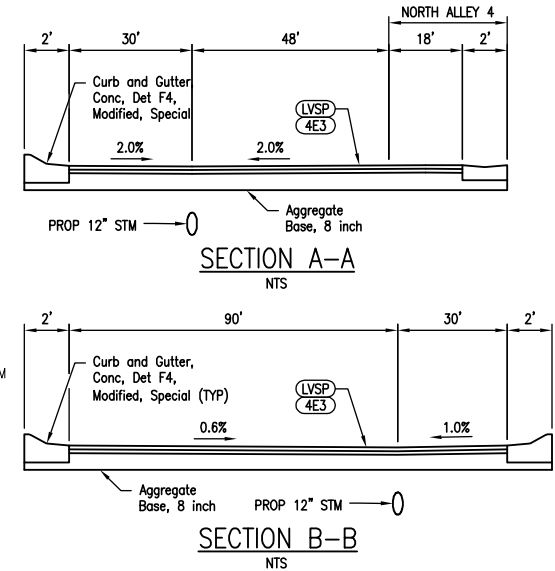
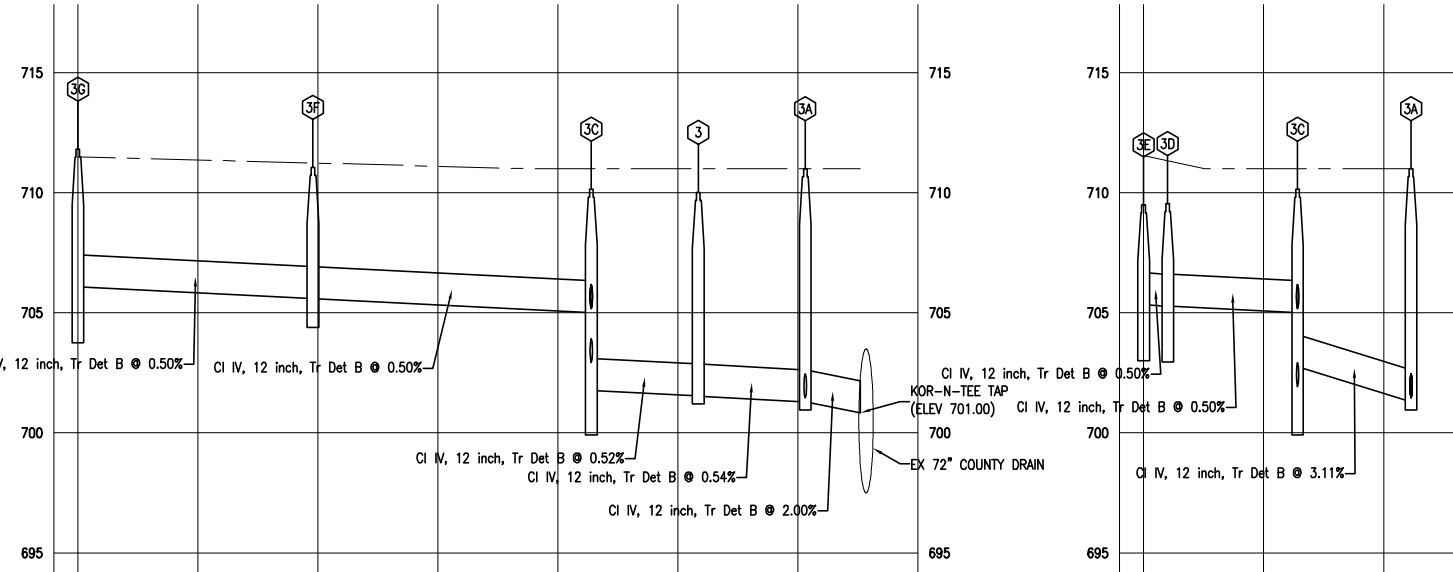
CAUTION - CRITICAL UNDERGROUND UTILITY

KOR-N-TEE TAP  
 63+67.72, 33.39' L  
 (PAID FOR AS Dr Structure Tap, OCWRC, 12 inch)

TOTAL	UNIT	DESCRIPTION
3462	Syd	Aggregate Base, 8 inch
438	Ft	Sewer, CI IV, 12 inch, Tr Det B
2	Ea	Dr Structure Cover, Type B
5	Ea	Dr Structure Cover, Type D
1	Ea	Dr Structure, 60 inch dia
2	Ft	Dr Structure, Add Depth of 60 inch dia, 8 foot to 15 foot
3	Ft	Dry Well Catch Basin, Add Depth of 72 inch dia, 8 foot to 15 foot
1	Ea	Dr Structure Tap, OCWRC, 12 inch
4	Ea	Dry Well Catch Basin, 48 inch dia
1	Ea	Dry Well Catch Basin, 72 inch dia
1	Ea	Hydrodynamic Separator Structure, 1 cfs
355	Ton	HMA, 4E3
355	Ton	HMA, LVSP
54	Ft	Driveway Opening, Conc, Det M
958	Ft	Curb and Gutter, Conc, Det F4, Modified
10	Ft	Detectable Warning Surface
10	Ft	Curb Ramp Opening, Conc
81	Sft	Sidewalk Ramp, Conc, 6 inch
557	Sft	Sidewalk, Conc, 6 inch
558	Ft	Decorative 6 Foot Fence
6	Sft	Sign, Type IIIA
28	Ft	Perforated Black Steel Square Traffic Sign Post
4	Ea	Pavt Mrgk, Preformed Thermoplastic, Accessible Sym
1674	Ft	Pavt Mrgk, Waterborne, 4 inch, White
226	Ft	Pavt Mrgk, Waterborne, 4 inch, Blue

- 3G STA 60+84.60, -48.0' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 711.82  
12" INV E 706.25
- 3F STA 61+82.54, -48.0' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 711.06  
12" INV E 705.76  
12" INV W 705.76
- 3D STA 63+09.19, -101.0' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 709.55  
12" INV S 705.45  
12" INV N 705.45
- 3E STA 63+11.16, -110.8' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 709.50  
12" INV S 705.50
- 3C STA 62+98.52, -48.0' L  
72" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 710.15  
12" INV W 705.18  
12" INV N 705.18  
12" INV NE 701.93  
12" INV SE 705.18  
12" INV E 702.93
- 3 STA 63+26.36, -80.2' L  
HYDRODYNAMIC SEPARATOR, COVER B  
T/CAST 710.02  
12" INV SW 701.70  
12" INV SE 701.70
- 3A STA 63+45.23, -38.6' L  
72" DIA STORM MANHOLE, COVER B  
T/CAST 711.00  
12" INV NW 701.46  
12" INV E 701.46  
12" INV W 701.46

PROP STORM PROFILE (3G-3A)



**LEGEND**

- ADJ ADJUST
- ADJ B/D ADJUST BY OTHERS
- C CLEARING
- R REMOVE
- REM B/D REMOVE BY OTHERS
- S SAVE
- SALV SALVAGE
- REL RELOCATE
- REL B/D RELOCATE BY OTHERS
- EXISTING GRAVEL
- PAVT, REM
- HMA SURFACE, REM
- CURB AND GUTTER, REM
- PROP ASPHALT
- PROP CONCRETE
- PROP HMA APPROACH



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REVISIONS:

NO.	DATE	DESCRIPTION

CITY OF ROCHESTER HILLS  
 AUBURN ROAD ALLEY AND SITE IMPROVEMENTS  
 2839 HARRISON / 2906 EASTERN - PROPERTY ACQUISITIONS



Know what's below.  
 Call before you dig.

DRAWING PATH: \\ohm\media\Corporate\Projects\0166\_0200\016017020\_Auburn\_Road\_Reconstruction\Drawings\North\Site\0166\_0200\_016017020.dwg Feb 08, 2019 - 1:36pm

JOB BENCHMARK #211  
SET COTTON SPINDLE IN W/FACE OF  
UTIL POLE IN NE QUAD OF  
N ALLEY & EMMONS  
ELEV 713.03

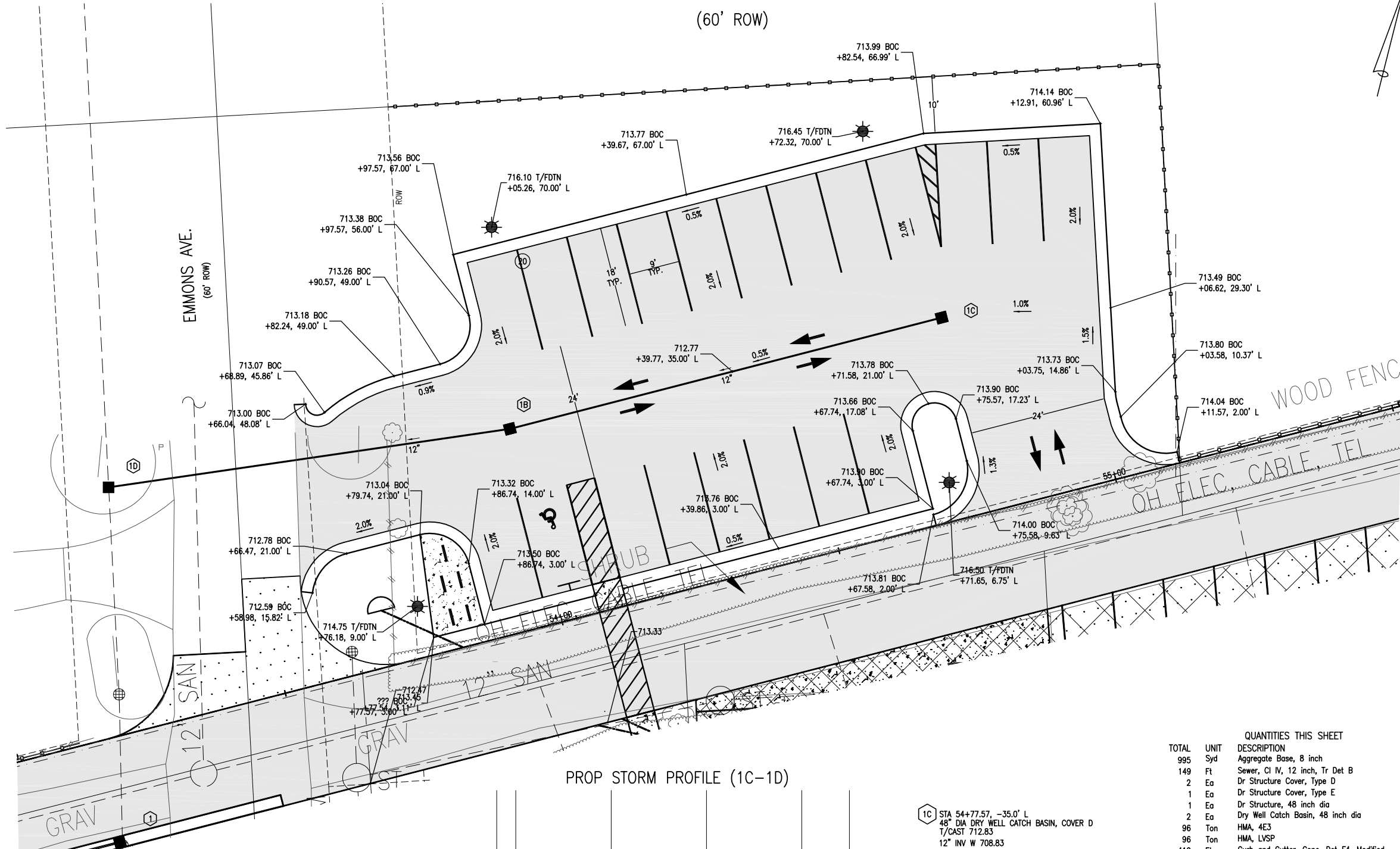
JOB BENCHMARK #212  
SET COTTON SPINDLE IN E/FACE  
OF UTIL POLE IN NW QUAD  
OF N ALLEY & LONGVIEW  
ELEV 715.98

TRAVERSE POINT #111  
N 417180.31  
E 13463962.89 ELEV 711.66

TRAVERSE POINT #112  
N 417270.50  
E 13464334.26 ELEV 714.57

# 2905 EMMONS AVE.

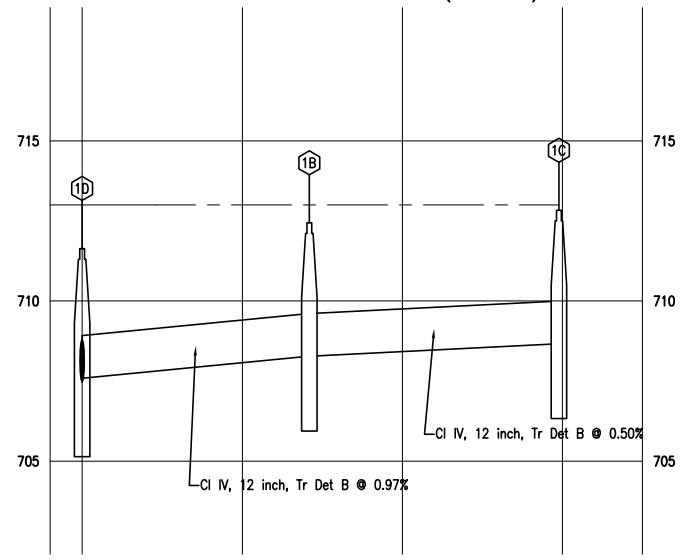
(60' ROW)



### LEGEND

- (ADJ)** ADJUST
- (ADJ B/D)** ADJUST BY OTHERS
- (C)** CLEARING
- (R)** REMOVE
- (REM B/D)** REMOVE BY OTHERS
- (S)** SAVE
- (SALV)** SALVAGE
- (REL)** RELOCATE
- (REL B/D)** RELOCATE BY OTHERS
- (GRAV)** EXISTING GRAVEL
- (PAVT, REM)** PAVT, REM
- (HMA SURFACE, REM)** HMA SURFACE, REM
- (CURB AND GUTTER, REM)** CURB AND GUTTER, REM
- (PROP ASPHALT)** PROP ASPHALT
- (PROP CONCRETE)** PROP CONCRETE
- (PROP HMA APPROACH)** PROP HMA APPROACH

### PROP STORM PROFILE (1C-1D)



- 1C** STA 54+77.57, -35.0' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 712.83  
12" INV W 708.83
- 1B** STA 53+99.57, -35.0' L  
48" DIA DRY WELL CATCH BASIN, COVER D  
T/CAST 712.44  
12" INV E 708.44  
12" INV W 708.44
- 1D** STA 53+29.04, -42.6' L  
48" DIA CATCH BASIN, COVER E  
T/CAST 711.00  
12" INV W 707.75  
12" INV S 707.64  
12" INV N 707.64

QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
995	Syd	Aggregate Base, 8 inch
149	Ft	Sewer, CI IV, 12 inch, Tr Det B
2	Ea	Dr Structure Cover, Type D
1	Ea	Dr Structure Cover, Type E
1	Ea	Dr Structure, 48 inch dia
2	Ea	Dry Well Catch Basin, 48 inch dia
96	Ton	HMA, 4E3
96	Ton	HMA, LVSP
412	Ft	Curb and Gutter, Conc, Det F4, Modified
122	Sft	Sidewalk, Conc, 6 inch
2	Sft	Sign, Type IIIA
14	Ft	Perforated Black Steel Square Traffic Sign Post
1	Ea	Pavt Mrkg, Preformed Thermoplastic, Accessible Sym
395	Ft	Pavt Mrkg, Waterborne, 4 inch, White
150	Ft	Pavt Mrkg, Waterborne, 4 inch, Blue



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REVISIONS:	DATE	BY	DESCRIPTION

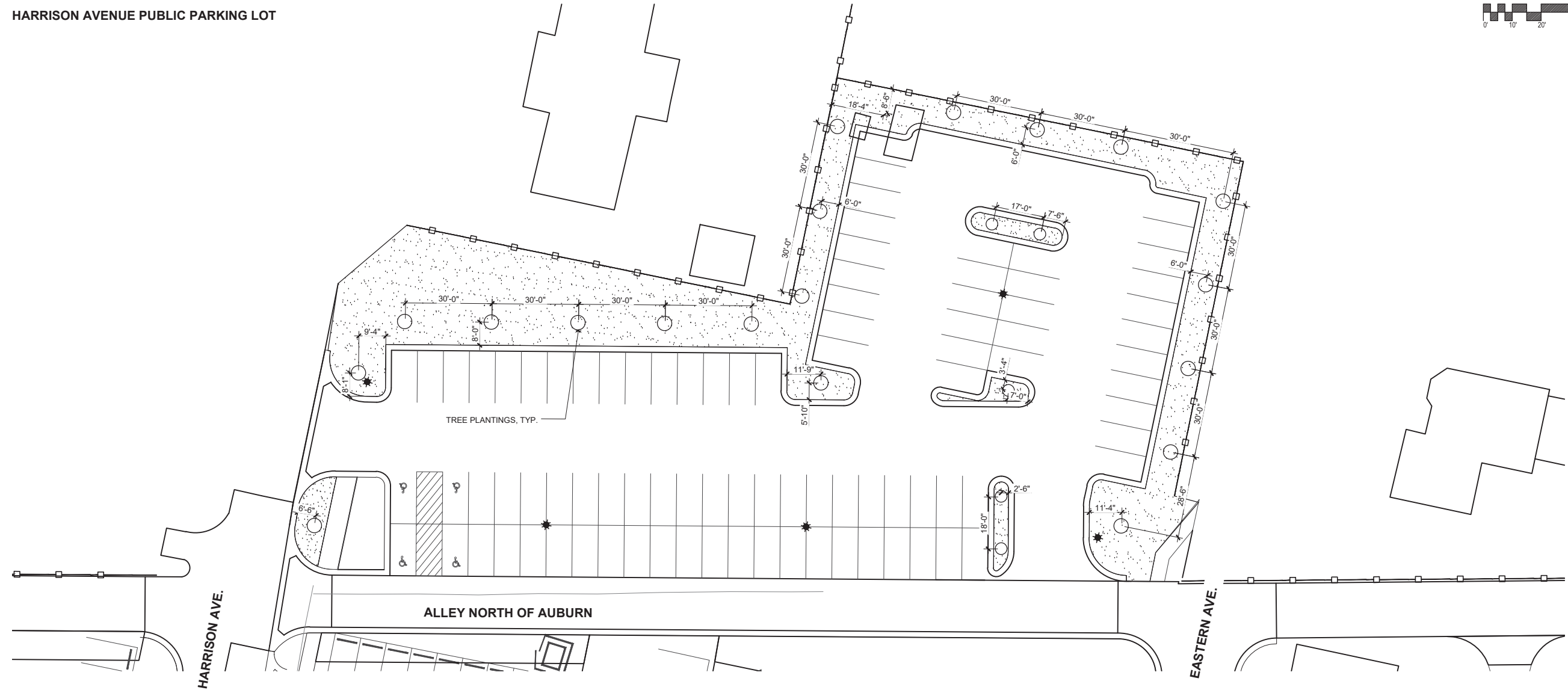
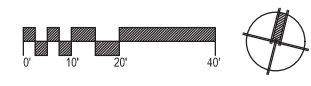
DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
02/01/19	01905-PA00	AP	ML	SM	Oakland	Rochester Hills	1"=20'	NAD 83	NA

CITY OF ROCHESTER HILLS  
AUBURN ROAD ALLEY AND SITE IMPROVEMENTS  
2905 EMMONS PARKING LOT




DRAWING PATH: \\ohm\dfs\Corporate\Projects\0166\_0200\0190170020\_Auburn\_Road\_Reconstruction\Drawings\Civil\Plans\_Const\NORTH\_SITES.dwg Feb 01, 2019 - 6:01pm

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HARRISON AVENUE PUBLIC PARKING LOT

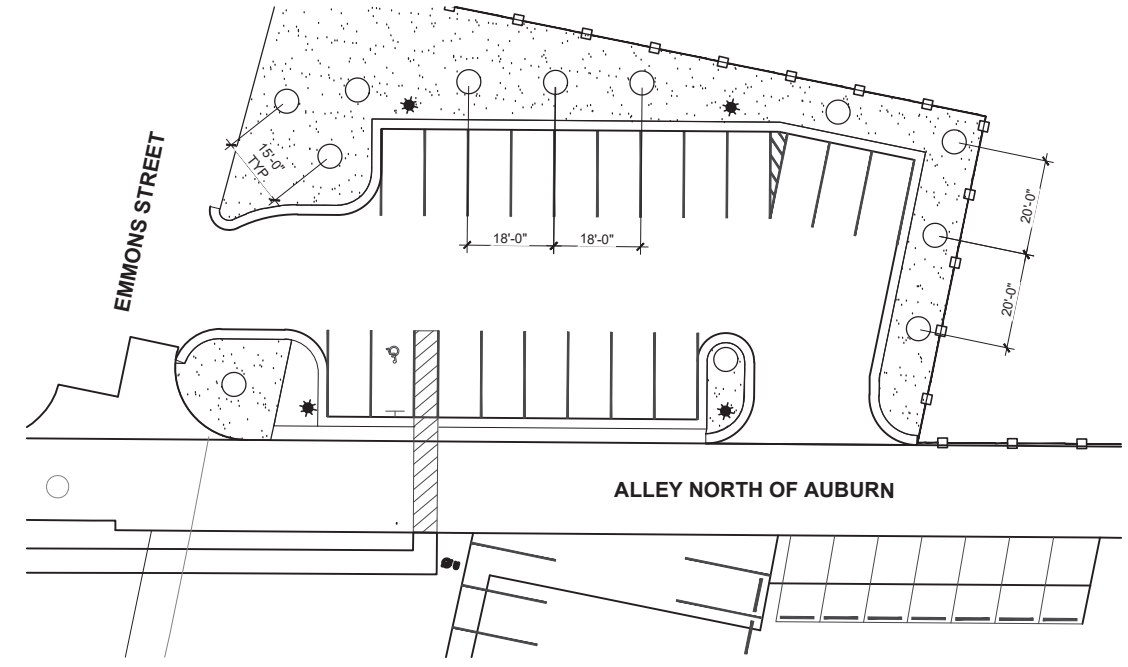


LAYOUT LEGEND:

-  PROPOSED PLANTING BED - SEE PLANTING PLANS
-  PROPOSED PEDESTRIAN LIGHT POLE BY OTHERS- SEE SITE ELECTRICAL PLANS
-  EXPANSION JOINT; SEE DETAIL 5, SHEET 153

SEE MATERIALS PLANS FOR SITE MATERIALS LIST  
 SEE CONCRETE SCORING PATTERN DETAIL ON SHEET 150  
 FOR SCORING PATTERN LAYOUT DIMENSIONS.

EMMONS STREET PUBLIC PARKING LOT



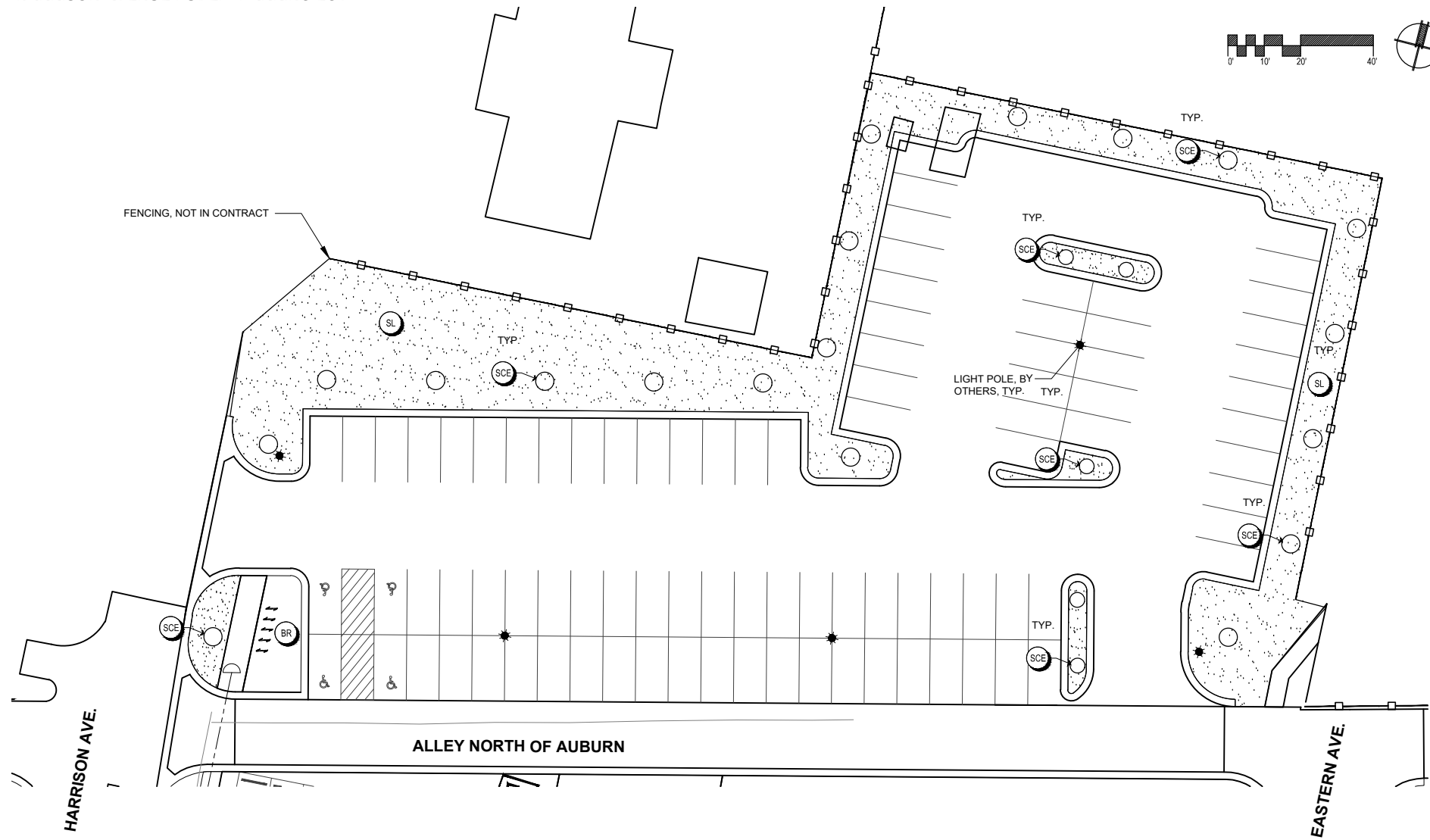
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REVISIONS:

NO.	DATE	DESCRIPTION

DATE	PROJ NUMBER	LA	BW	0106-17-2020
11/12/2018	0106-17-2020	BW	M.L.	
CITY/VILLAGE/TOWNSHIP	COUNTY	CADD	PROJ INVR	SCALE
Rochester Hills	Oakland			
HORIZ DATUM	VERT DATUM	H: V:		
		H: V:		
CITY OF ROCHESTER HILLS AUBURN ROAD RECONSTRUCTION LAYOUT PLAN				

HARRISON AVENUE PUBLIC PARKING LOT

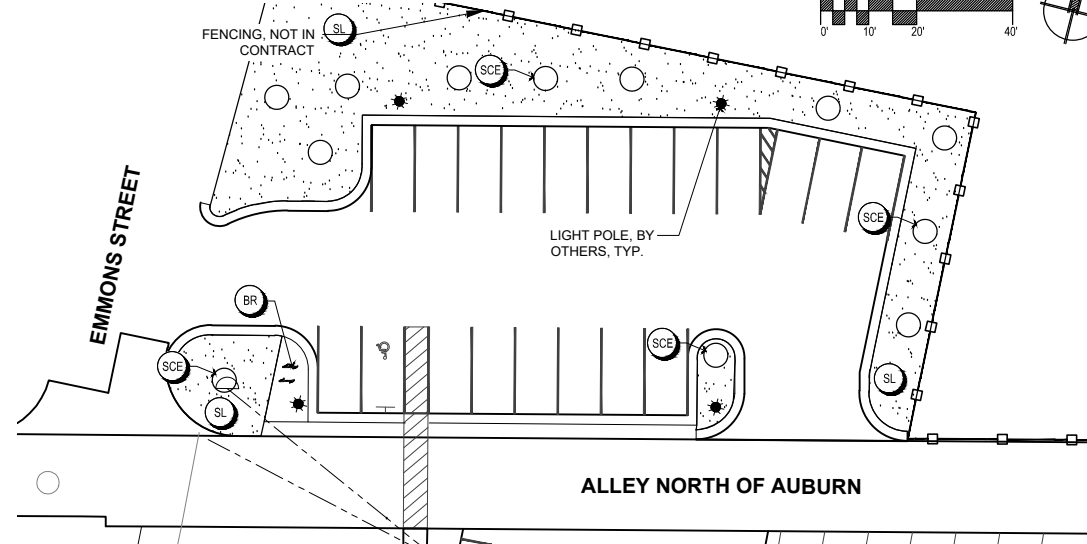


**MATERIALS LEGEND:**

- PROPOSED LIGHT POLE, BY OTHERS
- PROPOSED BENCH
- PROPOSED BIKE RACK
- PROPOSED CHARGING STATION (N.I.C.)
- PROPOSED DRAIN INLET
- PROPOSED LITTER RECEPTACLE
- PROPOSED RECYCLE RECEPTACLE
- PROPOSED SPADE CUT EDGE
- PROPOSED LAWN
- PROPOSED TREE GRATE
- PROPOSED CONCRETE PAVEMENT, TYPE 1
- PROPOSED CONCRETE PAVEMENT, TYPE 2
- PROPOSED COBBLESTONE SPLASH BLOCK
- PROPOSED PLANTING BED

MATERIALS LIST - STREETScape				
CODE	ITEM	FINISH	MANUFACTURER	NOTES
BE	REST BENCH	80 INCH LENGTH, TITANIUM POWDERCOAT, WITH BACK AND ARMS, SURFACE MOUNT	LANDSCAPE FORMS	SEE DETAILS AND SPECIAL PROVISION
BR	LOOP BIKE RACK	14" DEPTH X 36" LENGTH X 31" HT, TITANIUM POWDERCOAT, SURFACE MOUNT	LANDSCAPE FORMS	SEE DETAILS AND SPECIAL PROVISION
CR	CURB RAMP	SEE CIVIL PLANS	N/A	SEE DETAILS AND SPECIAL PROVISION
CS	CHARGING STATION	LEGRAND OUTDOOR CHARGING STATION WITH AREA LIGHT; BRONZE FINISH AND EQUIPPED WITH 2-GANG, ONE DUPLEX GFCI RECEPTACLE, ONE 4-PORT USB. CHARGING STATION TO BE PROVIDED BY CITY.	LANDSCAPE FORMS	SEE DETAILS AND SPECIAL PROVISION
DI	DRAIN INLET	SEE CIVIL PLANS	J.R. HOE	SEE DETAIL AND SPECIAL PROVISION
LR	COLLECT LITTER RECEPTACLE	30 GALLON CAPACITY, TOP OPENING, SURFACE MOUNT, TITANIUM POWDERCOAT WITH BLACK POLYETHYLENE BIN	LANDSCAPE FORMS	SEE DETAILS AND SPECIAL PROVISION
P-1	CONCRETE PAVEMENT (PEDESTRIAN)	STANDARD BROOM FINISH	N/A	SEE DETAILS AND SPECIAL PROVISION
P-2	CONCRETE PAVEMENT (PEDESTRIAN)	BUFF WASHED FINISH WITH INTEGRAL DARK GULL GRAY COLOR (FEDERAL STANDARD CODE #36231)	N/A	SEE DETAILS AND SPECIAL PROVISION
PB	PLANTING BED	N/A	N/A	SEE PLANTING PLAN, DETAILS AND SPECIAL PROVISION
RG	RAIN GARDEN	N/A	N/A	SEE PLANTING PLAN, DETAILS AND SPECIAL PROVISION
RR	COLLECT RECYCLE RECEPTACLE	30 GALLON CAPACITY, TOP OPENING, SURFACE MOUNT, TITANIUM POWDERCOAT WITH PINE POLYETHYLENE BIN	LANDSCAPE FORMS	SEE DETAILS AND SPECIAL PROVISION
SCE	SPADE CUT EDGE	N/A	N/A	SEE DETAILS AND SPECIAL PROVISION
SB	COBBLESTONE SPLASH BLOCK	WASHED COBBLE STONE OVER WEED BARRIER	N/A	SEE DETAILS AND SPECIAL PROVISION
SL	SEEDED LAWN	N/A	N/A	SEE PLANTING PLAN, DETAILS AND SPECIAL PROVISION
TG	CLOUD OF NUTS TREE GRATE	RECTANGULAR TREE GRATE WITH MOUNTING FRAME, 71" X 47", CORTEN STEEL	STREETLIFE	SEE DETAILS AND SPECIAL PROVISION

EMMONS STREET PUBLIC PARKING LOT



REVISIONS:

HORIZ. DATUM: VERT. DATUM:

SCALE: V:

H:

CITY/VILLAGE/TOWNSHIP: Rochester Hills

COUNTY: Oakland

CAND:

PROJ. NO.:

LA: M.L.

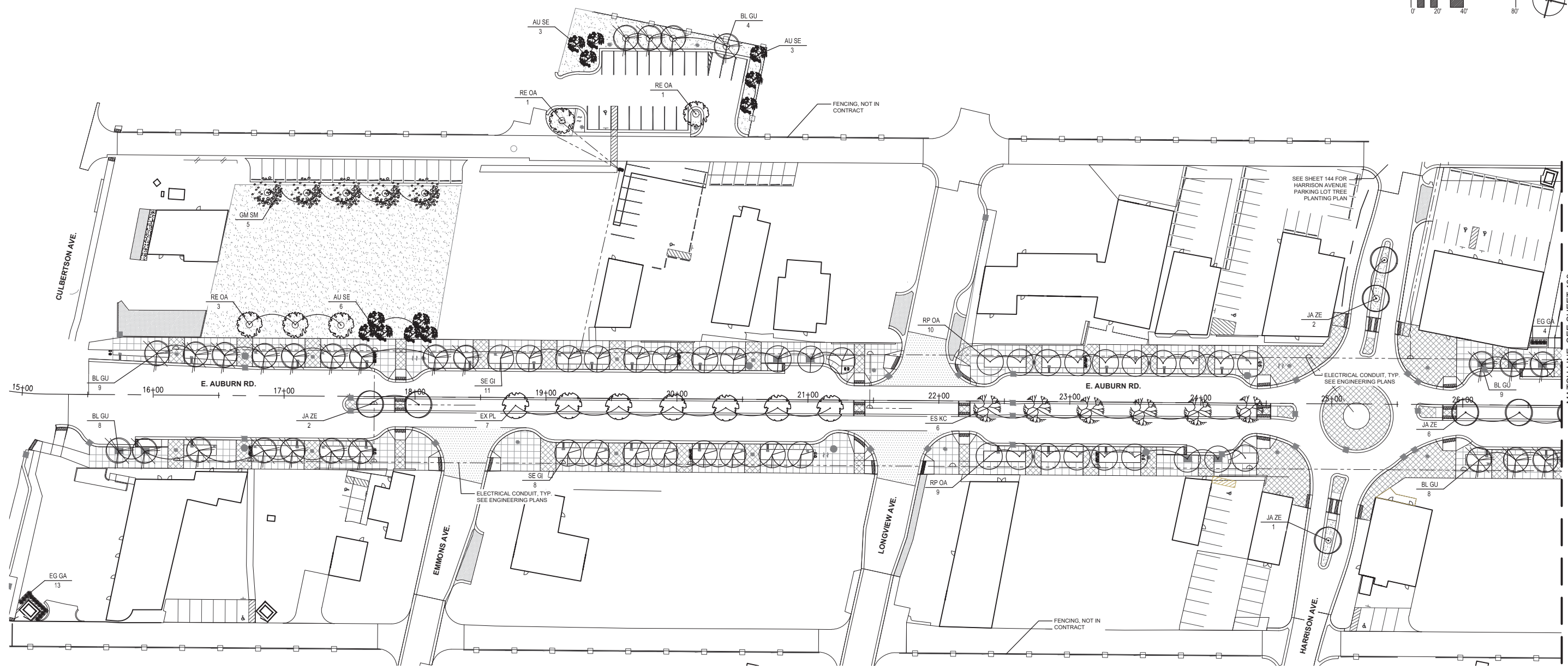
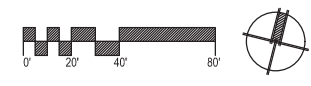
DATE: 11/12/2018

PROJ. NUMBER: 0180-17-0020

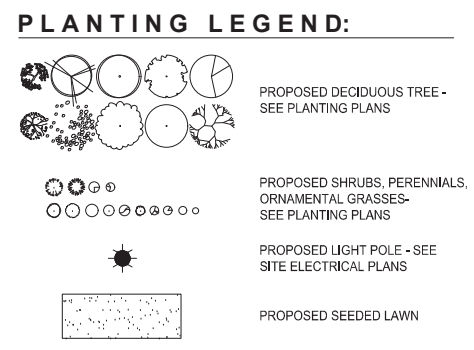
DATE: 11/12/2018

SHEET





PLANT LIST: TREES					
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
GM SM	GREEN MOUNTAIN SUGAR MAPLE	<i>Acer saccharum</i> 'Green Mountain'	3" CAL.	B&B	PER PLAN
AU SE	SPRING FLURRY SERVICEBERRY	<i>Amelanchier laevis</i> 'Spring Flurry'	8" HT.	B&B	PER PLAN
SE GI	PRINCETON SENTRY GINKGO	<i>Ginkgo biloba</i> 'Princeton Sentry'	3" CAL.	B&B	PER PLAN
ES KC	ESPRESSO KENTUCKY COFFEETREE	<i>Gymnocladus dioica</i>	3" CAL.	B&B	PER PLAN
BL GU	BLACK GUM	<i>Nyssa sylvatica</i>	3" CAL.	B&B	PER PLAN
EX PL	EXCLAMATION LONDON PLANETREE	<i>Platanus x acerifolia</i> 'Exclamation'	3" CAL.	B&B	PER PLAN
RE OA	RED OAK	<i>Quercus rubra</i>	3" CAL.	B&B	PER PLAN
RP OA	REGAL PRINCE OAK	<i>Quercus x warei</i> 'Long Regal Prince'	3" CAL.	B&B	PER PLAN
EG GA	EMERALD ARBORVITAE	<i>Thuja occidentalis</i> 'Emerald'	6" HT.	B&B	PER PLAN
JA ZE	GREEN VASE JAPANESE ZELKOVA	<i>Zelkova serrata</i> 'Green Vase'	3" CAL.	B&B	PER PLAN



SEE MATERIALS PLANS FOR SITE MATERIALS LIST



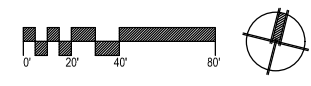
Know what's below.  
Call before you dig.

REVISIONS:

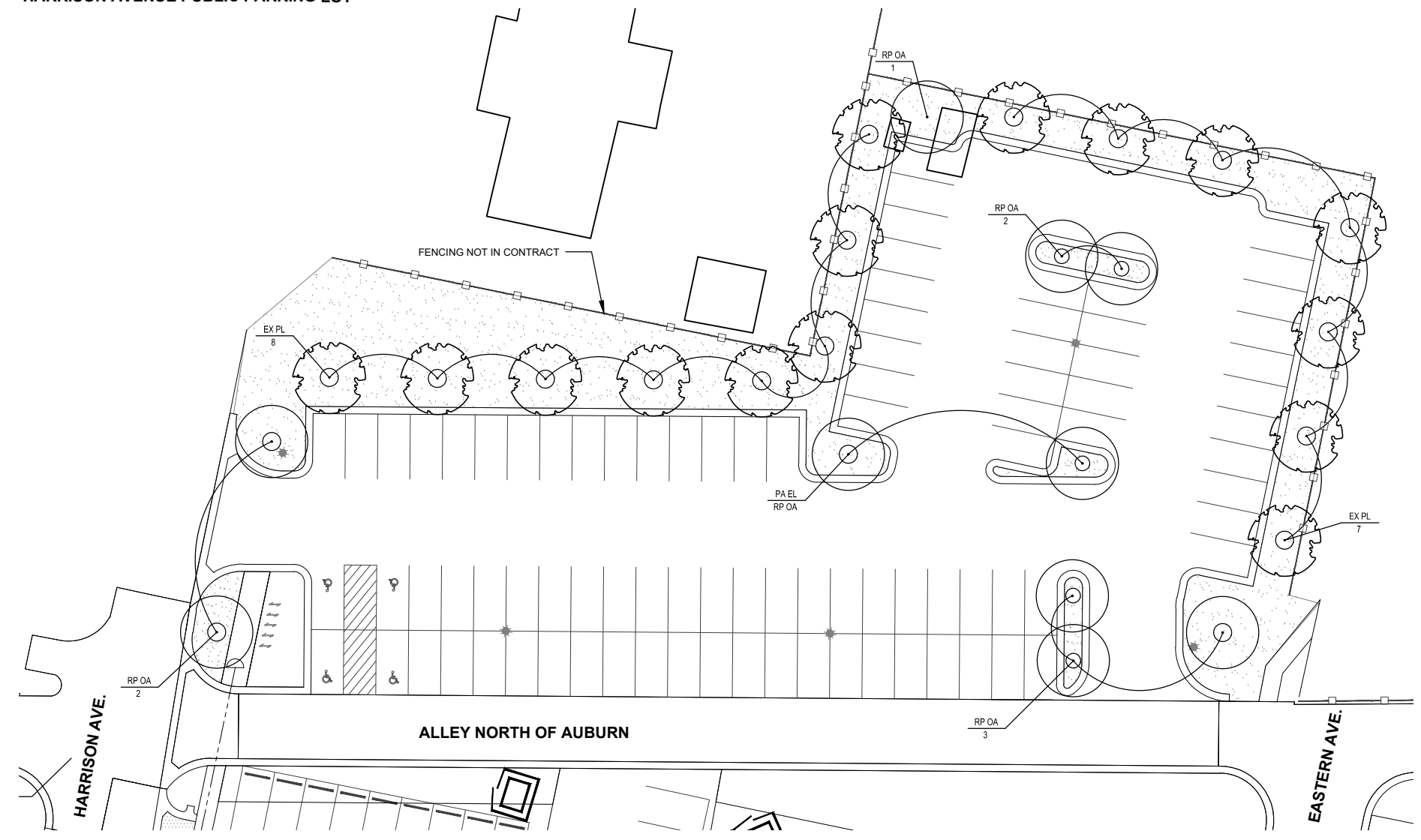
NO.	DATE	DESCRIPTION

CITY/VILLAGE/TOWNSHIP	Rochester Hills
COUNTY	Oakland
CADD	
PROJ. INVR.	
LA	
PROJ. NUMBER	0180-07-0020
DATE	11/12/2018

CITY OF ROCHESTER HILLS  
AUBURN ROAD RECONSTRUCTION  
PLANTING PLAN - TREES

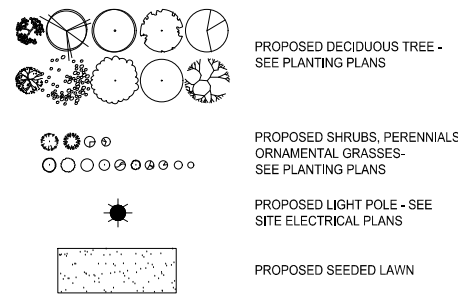


HARRISON AVENUE PUBLIC PARKING LOT



PLANT LIST: TREES					
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
GM SM	GREEN MOUNTAIN SUGAR MAPLE	<i>Acer saccharum</i> 'Green Mountain'	3" CAL.	B&B	PER PLAN
AU SE	SPRING FLURRY SERVICEBERRY	<i>Amelanchier laevis</i> 'Spring Flurry'	8' HT.	B&B	PER PLAN
SE GI	PRINCETON SENTRY GINKGO	<i>Ginkgo biloba</i> 'Princeton Sentry'	3" CAL.	B&B	PER PLAN
ES KC	ESPRESSO KENTUCKY COFFEETREE	<i>Gymnocladus dioica</i>	3" CAL.	B&B	PER PLAN
BL GU	BLACK GUM	<i>Nyssa sylvatica</i>	3" CAL.	B&B	PER PLAN
EX PL	EXCLAMATION LONDON PLANETREE	<i>Platanus x acerifolia</i> 'Exclamation'	3" CAL.	B&B	PER PLAN
RE OA	RED OAK	<i>Quercus rubra</i>	3" CAL.	B&B	PER PLAN
RP OA	REGAL PRINCE OAK	<i>Quercus x warei</i> 'Long' Regal Prince	3" CAL.	B&B	PER PLAN
EG GA	EMERALD ARBORVITAE	<i>Thuja occidentalis</i> 'Emerald'	6' HT.	B&B	PER PLAN
JA ZE	GREEN VASE JAPANESE ZELKOVA	<i>Zelkova serrata</i> 'Green Vase'	3" CAL.	B&B	PER PLAN

PLANTING LEGEND:



SEE MATERIALS PLANS FOR SITE MATERIALS LIST

REVISIONS:

HORIZ. DATUM: VERT. DATUM:

SCALE: V:

H:

CITY/VILLAGE/TOWNSHIP: Rochester Hills

COUNTY: Oakland

CADD:

PROJ. INCH: M.L.

LA: BW

PROJ. NUMBER: 0180-17-0000

DATE: 11/12/2018

SHEET

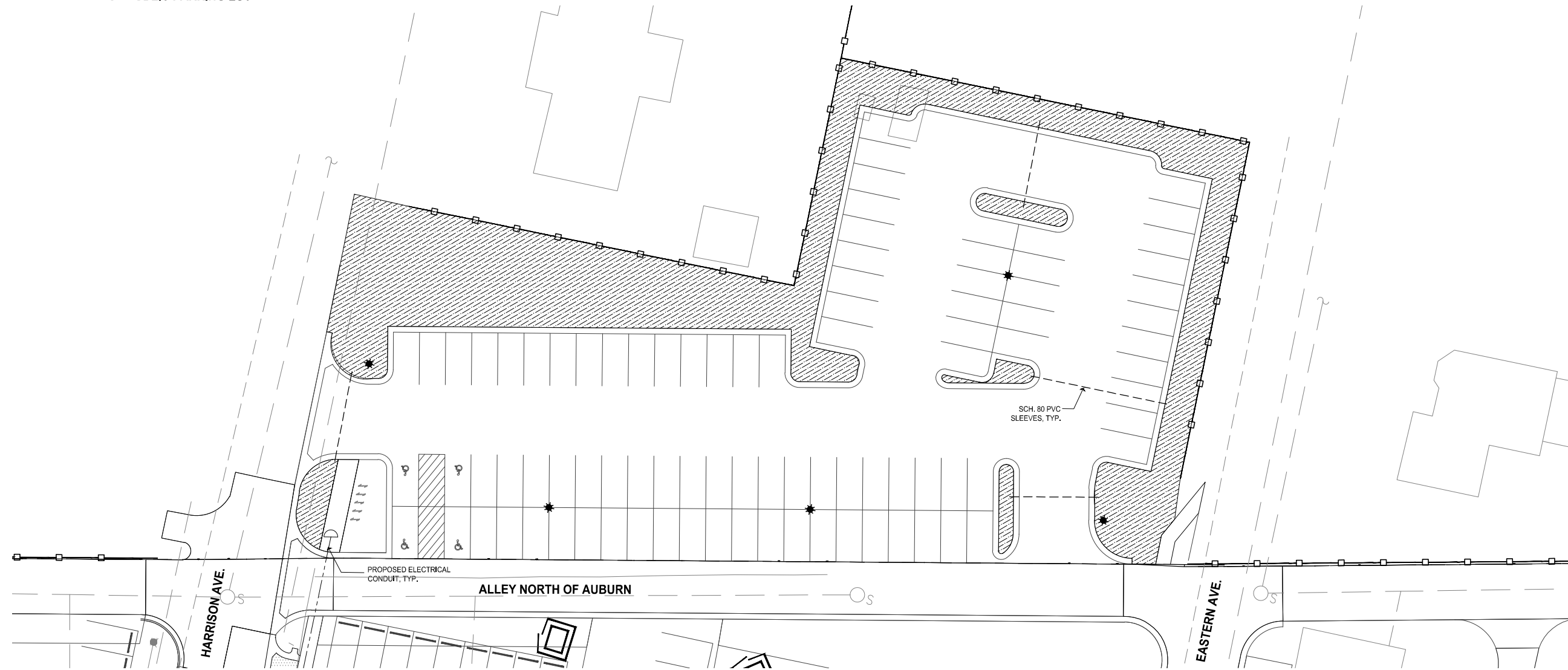
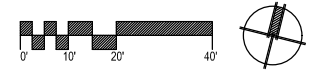


Know what's below.  
Call before you dig.


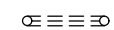
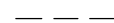
CITY OF ROCHESTER HILLS  
AUBURN ROAD RECONSTRUCTION  
PLANTING PLAN



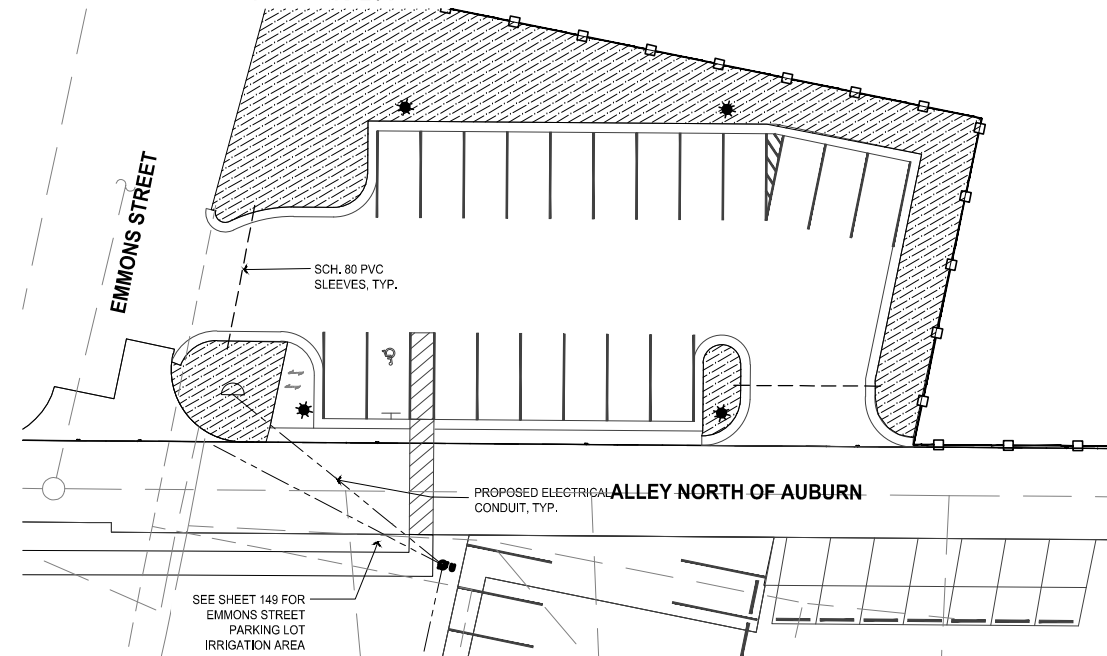
HARRISON AVENUE PUBLIC PARKING LOT



IRRIGATION LEGEND:

-  AREA TO BE IRRIGATED; SEE SPECIAL PROVISION FOR ADDITIONAL INFO
-  4" SCH. 40 PVC SLEEVE (FOR LATERAL LINES) & 2" SCH. 40 PVC (FOR WIRING) UNDER PAVEMENT
-  4" SCH. 80 PVC SLEEVES (2) UNDER ROADWAY

EMMONS STREET PUBLIC PARKING LOT



**OHM**  
ARCHITECTS ENGINEERS PLANNERS  
34000 Plymouth Road  
Livonia, MI 48150  
P (734) 522-6711 | F (734) 522-6427  
OHM-ADVISORS.COM

REVISIONS:

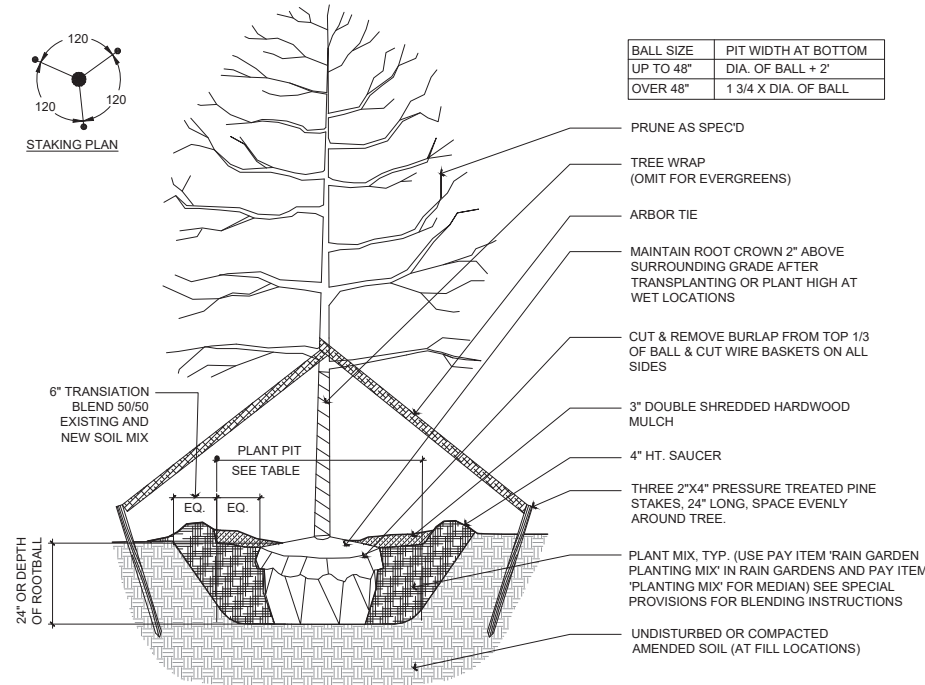
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DATE	PROJ NUMBER	LA	BW	PROJ MGR	M.L.	CADD	COUNTY	Oakland	CITY/VILLAGE/TOWNSHIP	Rochester Hills	HORIZ DATUM	VERT DATUM
11/12/2018	0180-07-0020											

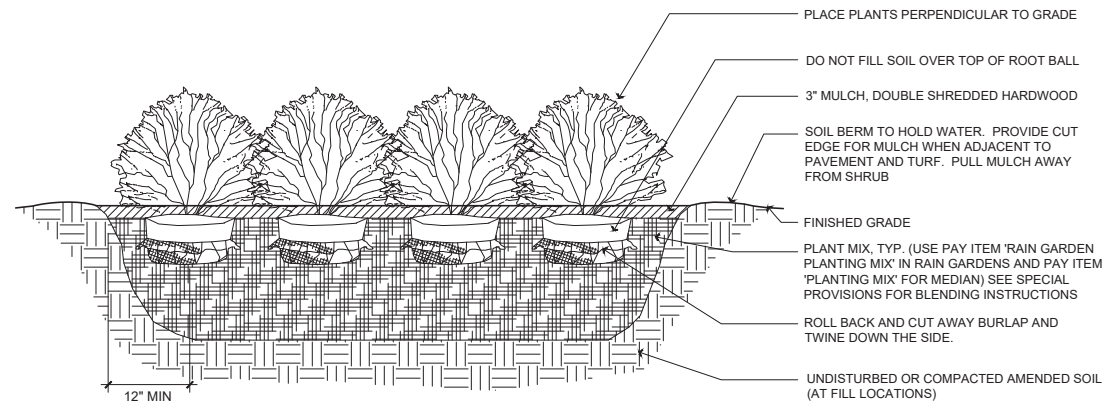
CITY OF ROCHESTER HILLS  
AUBURN ROAD RECONSTRUCTION  
IRRIGATION PLAN

**NOTES:**

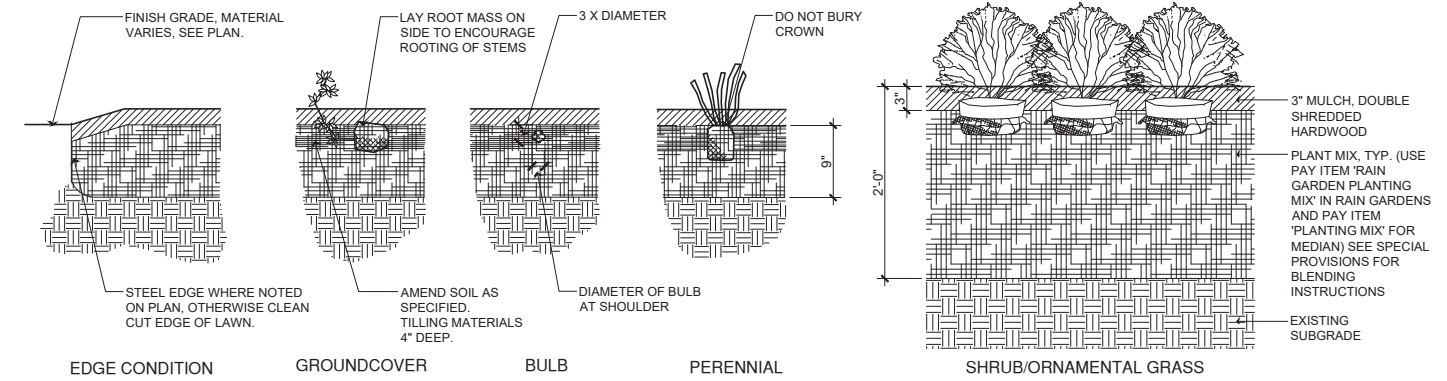
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.
4. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8 IN.) INTO PLANTING HOLE.
5. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL. SET TREE PLUMB IN PLANTING PIT.
6. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.



**1 TREE PLANTING**  
SCALE: 1/2" = 1'-0"

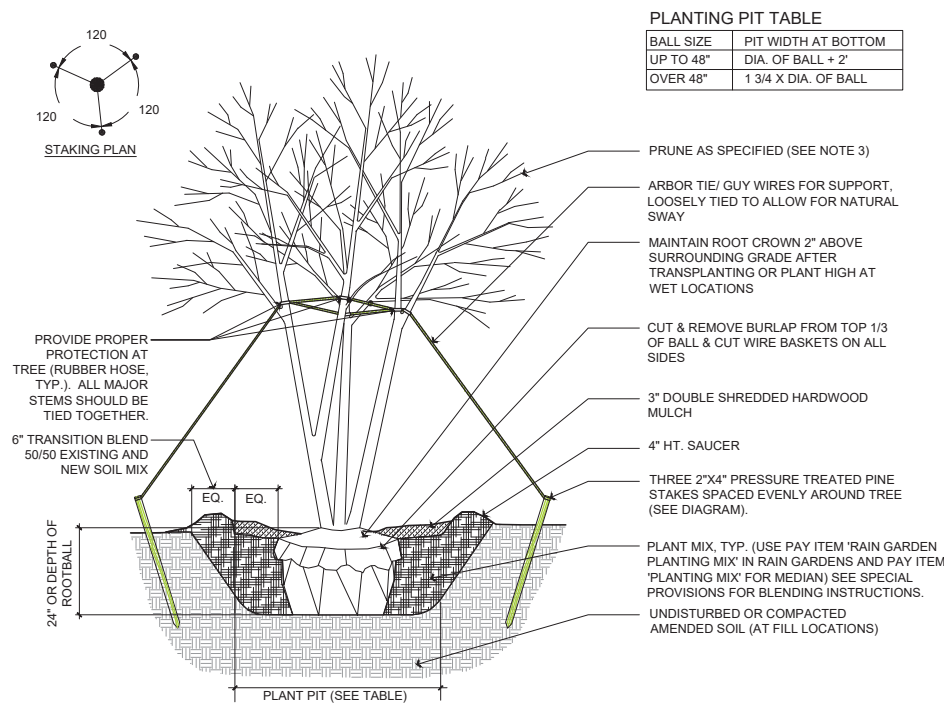
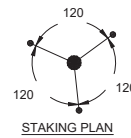


**3 SHRUB / ORNAMENTAL GRASS PLANTING**  
SCALE: 1" = 1'-0"



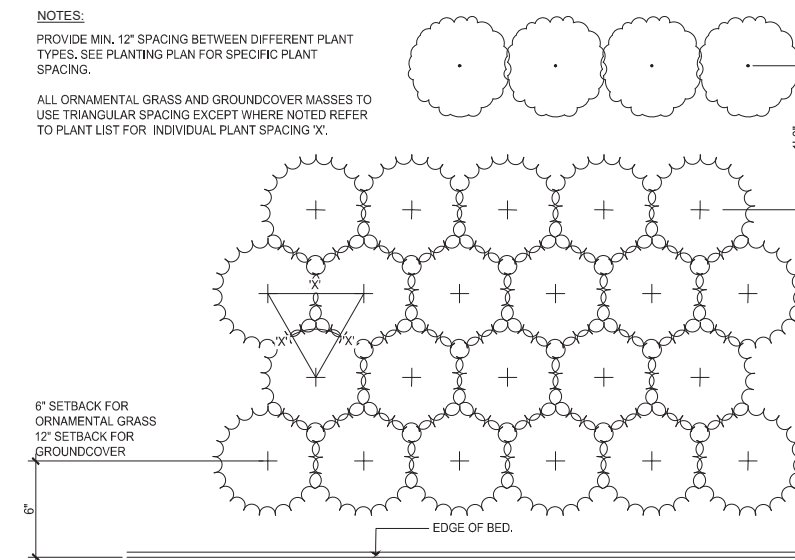
**NOTES:**

1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY ALSO BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
4. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
5. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8" MIN.) INTO PLANTING HOLE.
6. REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM TOP HALF OF ROOTBALL.
7. SET TREE PLUMB IN PLANTING PIT.
8. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.



**2 MULTI-STEMMED TREE PLANTING**  
SCALE: 1/2" = 1'-0"

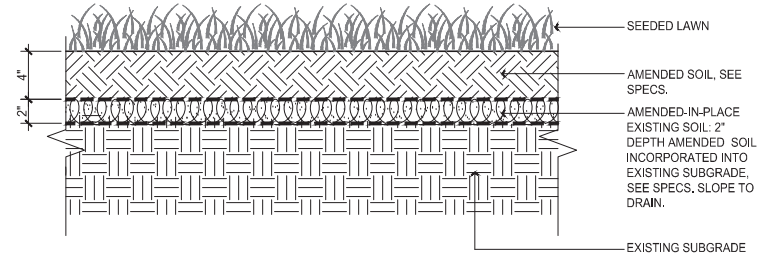
**4 TYPICAL BED PLANTING**  
SCALE: 1" = 1'-0"



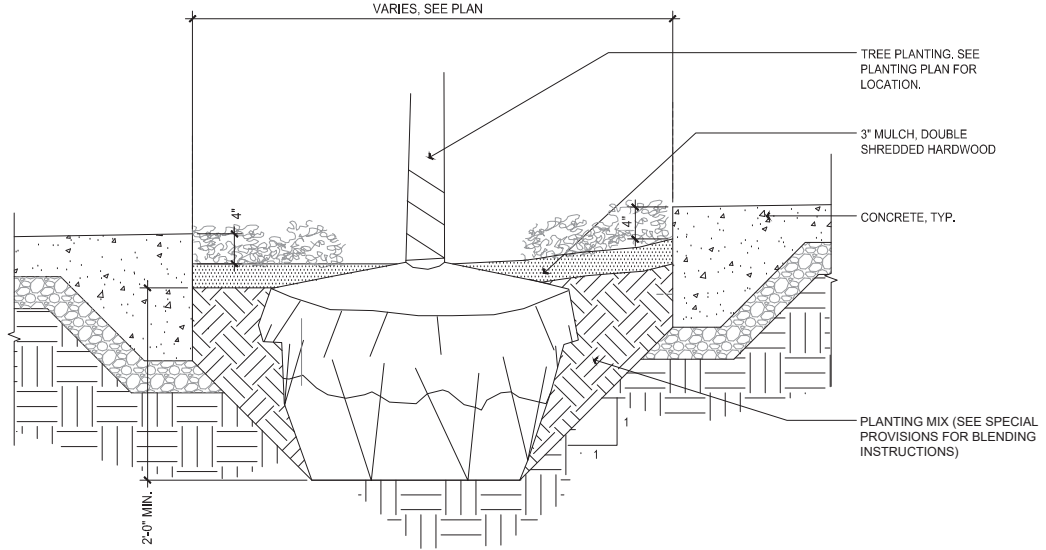
**5 PLANT SPACING**  
SCALE: 1" = 1'-0"

REVISIONS: VERT. DATUM: HORIZ. DATUM: SCALE: COUNTY: CAD: PROJ. INR: LA: PROJ. NUMBER: DATE: 11/12/2018 0180-17-0020 BW M.L.

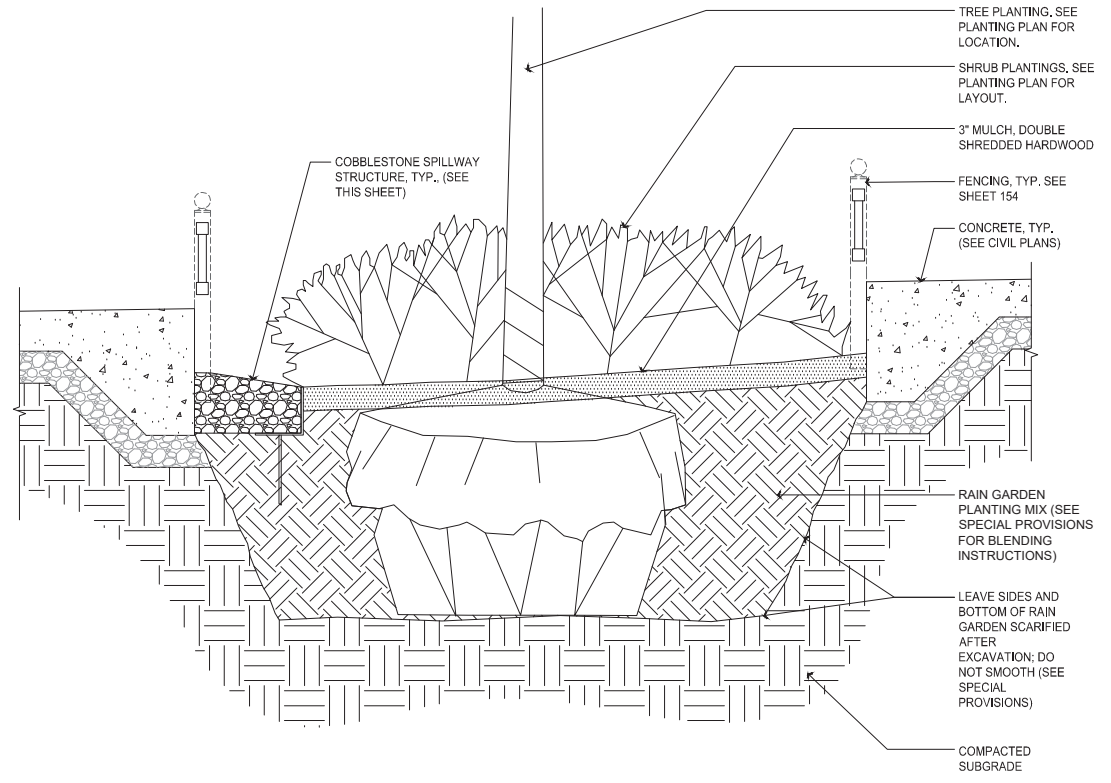
CITY OF ROCHESTER HILLS  
AUBURN ROAD RECONSTRUCTION  
LANDSCAPE PLANTING DETAILS



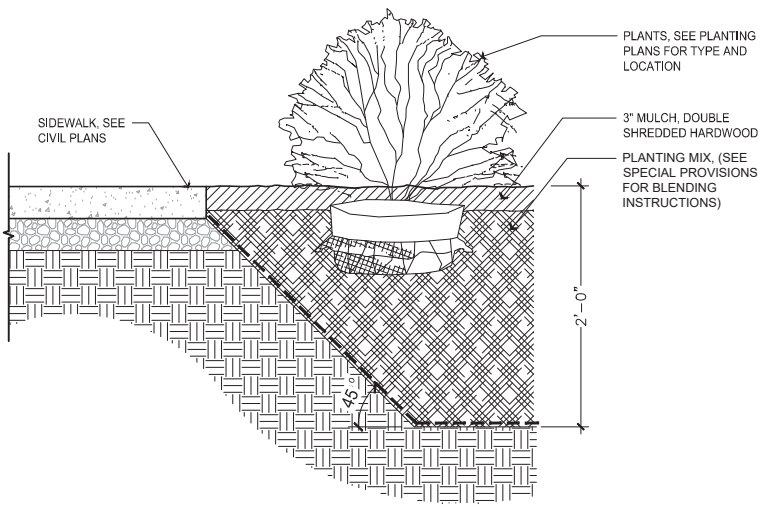
**1 SEEDED LAWN**  
SCALE: 1 1/2" = 1'-0"



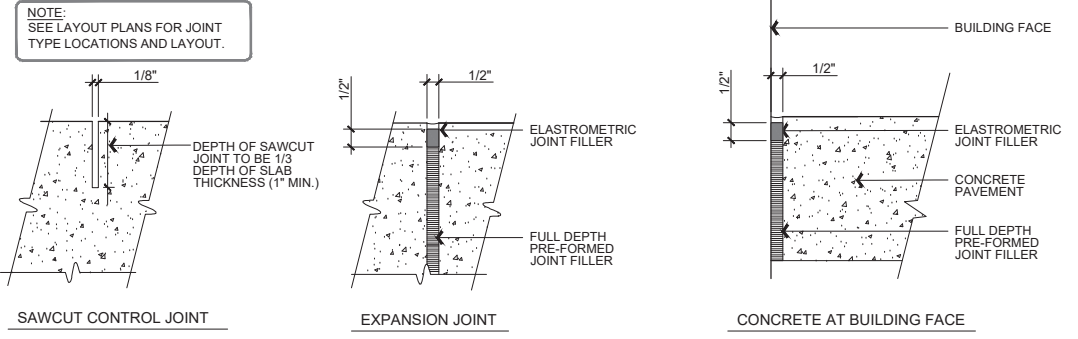
**3 FLUSH PLANTER PLANTING DETAIL**  
SCALE: 1" = 1'-0"



**2 RAIN GARDEN PLANTING DETAIL**  
SCALE: 1" = 1'-0"



**4 EXCAVATION FOR SOIL @ PAVEMENT AND STRUCTURES**  
SCALE: 1" = 1'-0"



**5 EXPANSION AND CONTROL JOINTS**  
SCALE: 3" = 1'-0"

REVISIONS:

VERT. DATUM

HORZ. DATUM

SCALE

CITY/VILLAGE/TOWNSHIP

COUNTY

CADD

PROJ. INR.

LA

DATE

SHEET

CITY OF ROCHESTER HILLS  
AUBURN ROAD RECONSTRUCTION  
LANDSCAPE PLANTING DETAILS

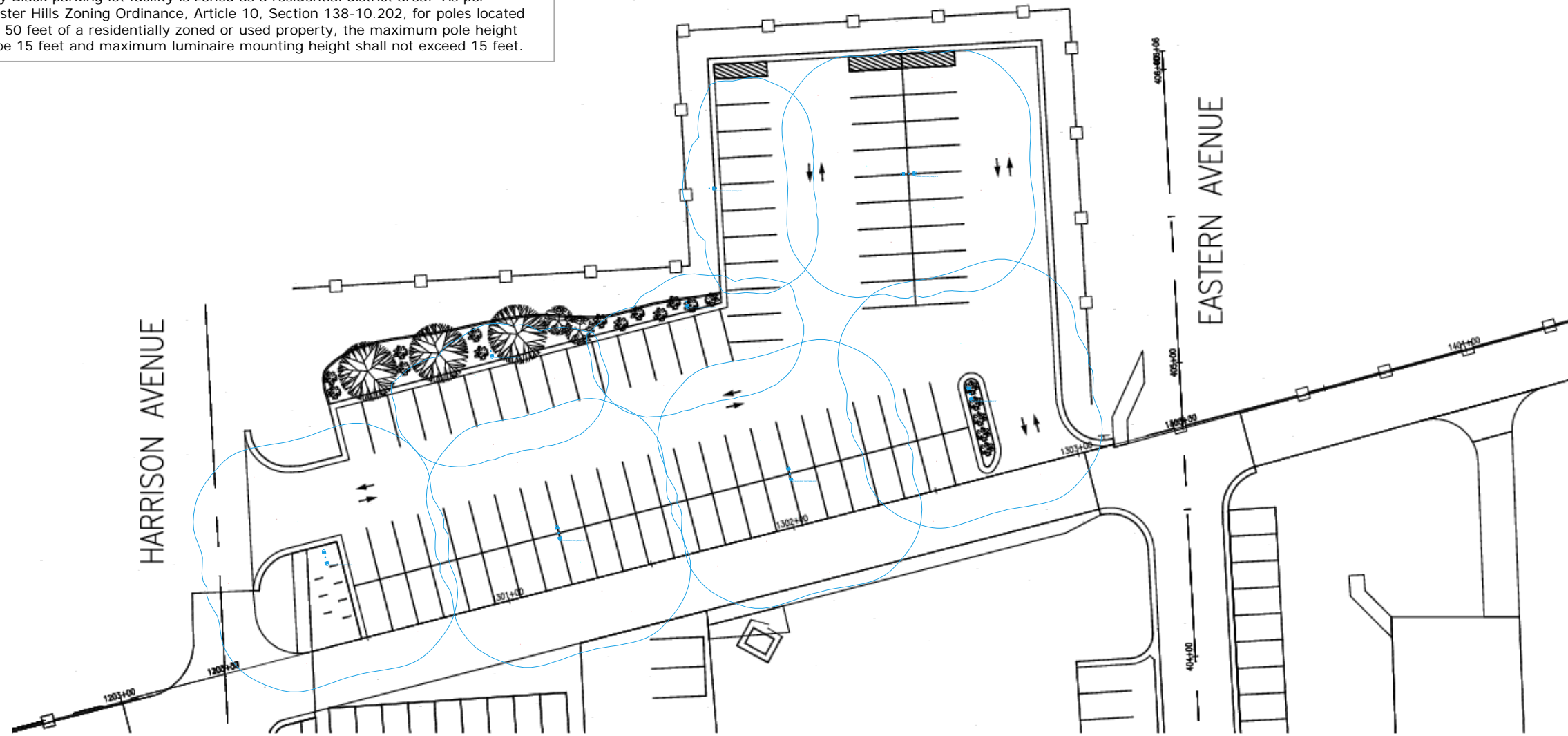
**Statistics**

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OVERALL - HORIZONTAL	+	0.4 fc	6.0 fc	0.0 fc	N/A	N/A

**GENERAL NOTES:**

Lighting design does NOT meet IESNA Recommended Practices for Parking Facilities (IES RP-20-14) with MINIMUM maintained: horizontal illuminance (Eavg or Emin); vertical illuminance (EVavg or EVmin); or uniformity ratios (Eavg/Emin or Emax/Emin). With current configuration, advise customer to supplement parking with additional luminaires or other luminaire & pole combination.

Johnny Black parking lot facility is zoned as a residential district area. As per Rochester Hills Zoning Ordinance, Article 10, Section 138-10.202, for poles located within 50 feet of a residentially zoned or used property, the maximum pole height shall be 15 feet and maximum luminaire mounting height shall not exceed 15 feet.



**OHM**  
ARCHITECTS ENGINEERS PLANNERS  
14900 Plymouth Road  
Livonia, MI 48150  
P (734) 522-6711 | F (734) 522-6427  
OHM-ADVISORS.COM

DATE	APPROVED	DATE	PROJECT	SCALE	DATE	DATE	DATE	DATE	DATE	DATE
CITY OF ROCHESTER HILLS AUBURN ROAD RECONSTRUCTION										

**Plan View**

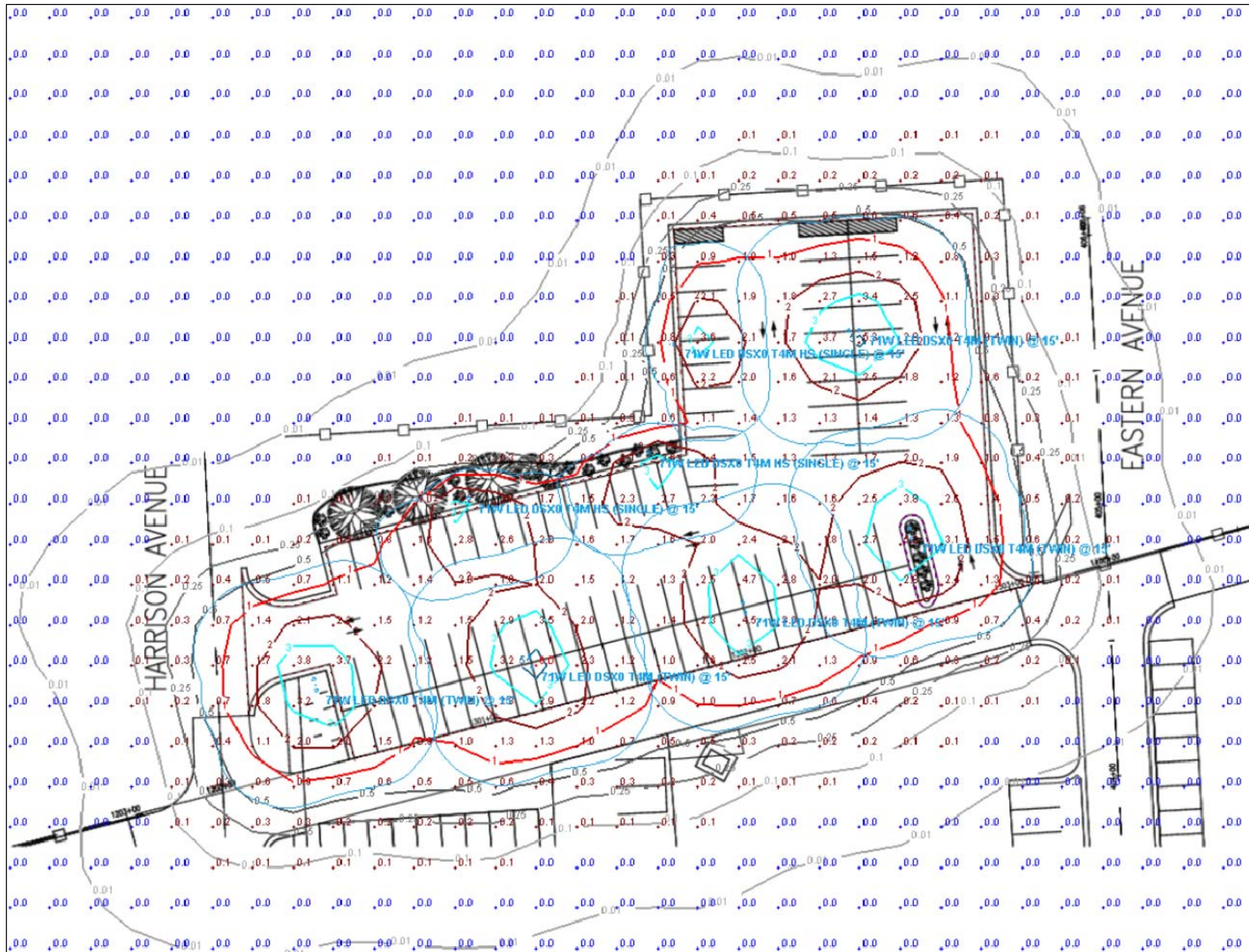
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Johnny Black's Parking Lot - Revision 2  
71W LED Lithonia DSXO Series (15' MH)  
DTE Photometric Site Plan 2  
Community Lighting Group

Designer  
M. Valascho  
Date  
12/06/2018  
Scale  
Not to Scale  
Drawing No.

Summary



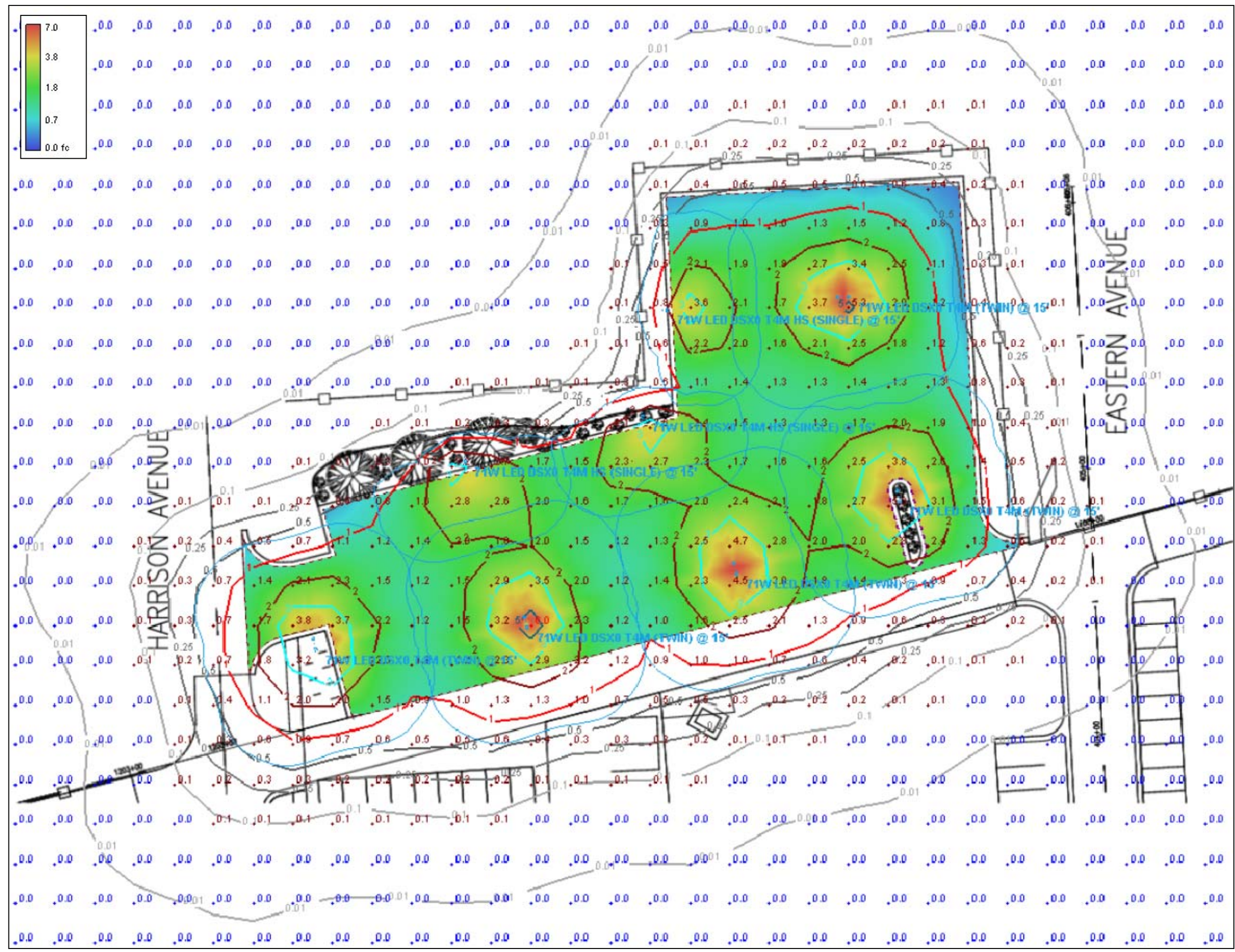
Photometric Plan View 1



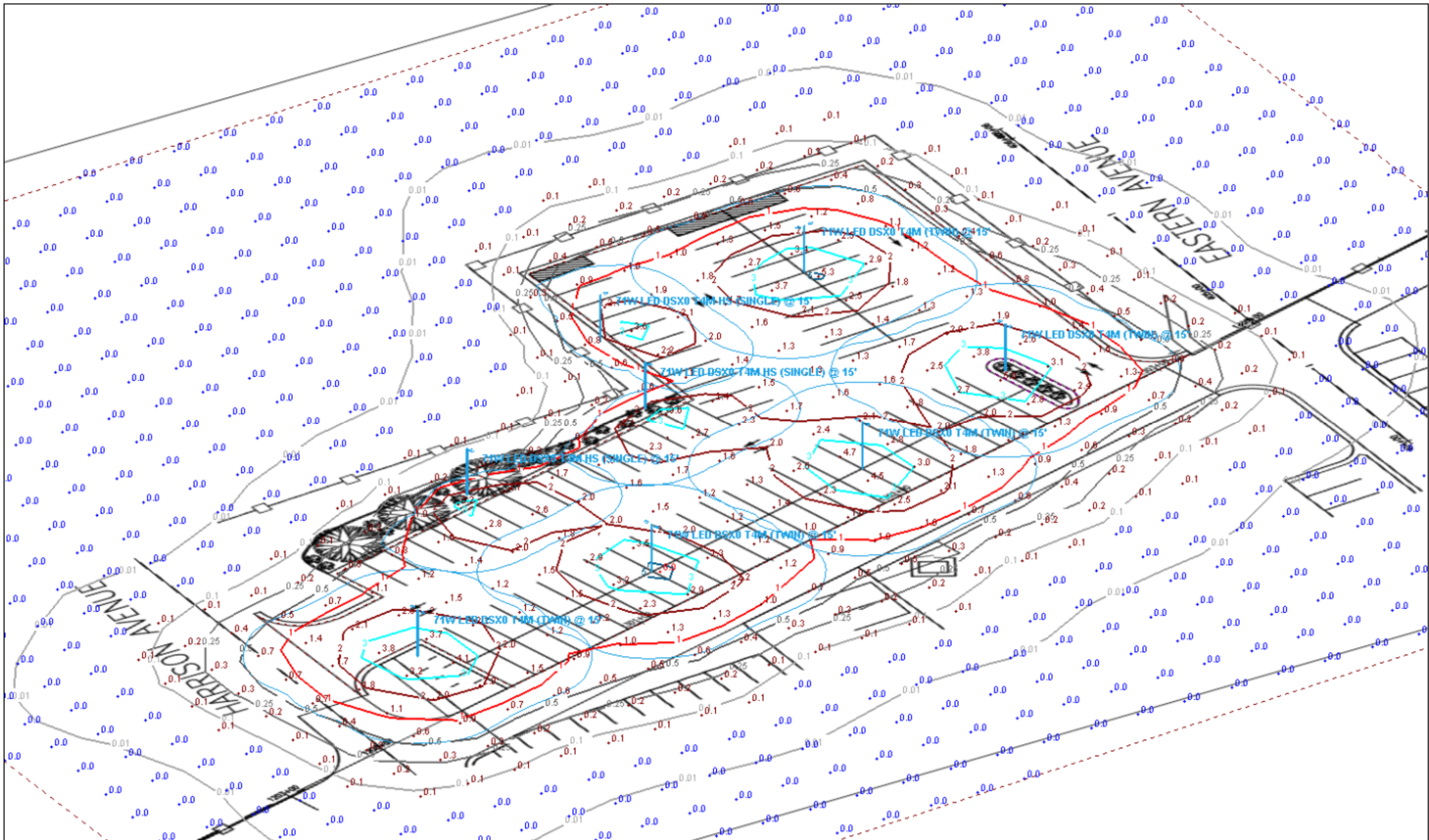
Johnny Black's Parking Lot - Revision 2  
 71W LED Lithonia DSX0 Series (15' MH)  
 DTE Photometric Site Plan 2  
 Community Lighting Group

Designer  
 M. Valascho  
 Date  
 12/06/2018  
 Scale  
 Not to Scale  
 Drawing No.

Summary



Photometric Plan View 2



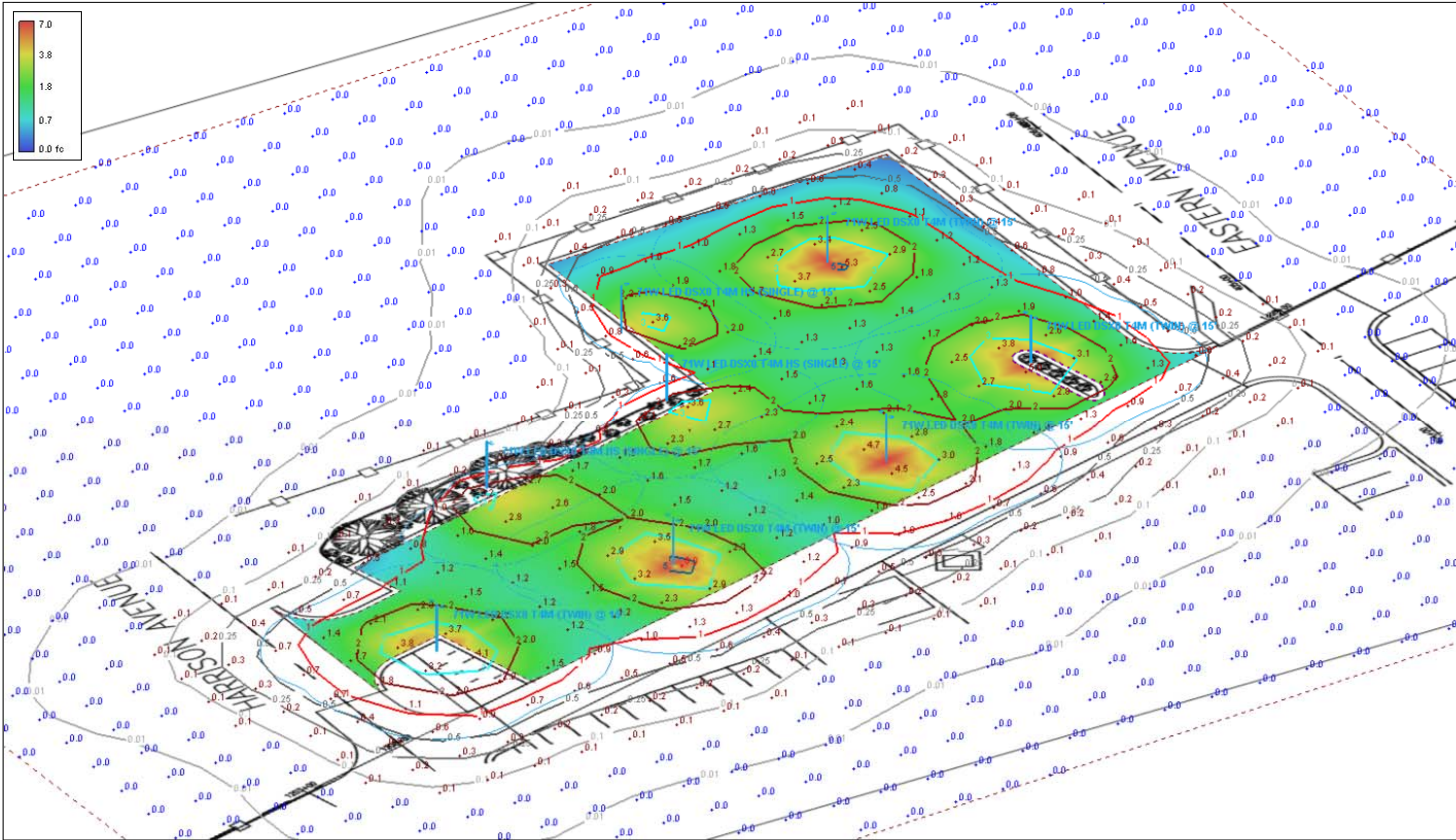
Photometric Profile View 1



Johnny Black's Parking Lot - Revision 2  
 71W LED Lithonia DSX0 Series (15° MH)  
 DTE Photometric Site Plan 2  
 Community Lighting Group

Designer  
 M. Valascho  
 Date  
 12/06/2018  
 Scale  
 Not to Scale  
 Drawing No.

Summary



Photometric Profile View 2





## D-Series Size 0 LED Area Luminaire



Order Number	
Model	
Type	

Use the table to enter our key page to describe the luminaire.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

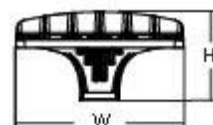
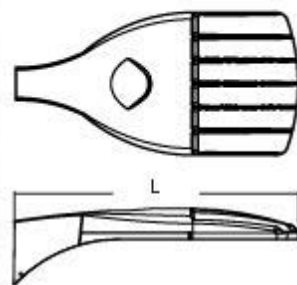
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL<sup>®</sup> controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM<sup>®</sup> or XPoint<sup>™</sup> Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

### Specifications

EPA:	0.95 f <sub>80</sub> (0.95)
Length:	26" (660.00)
Width:	13" (330.00)
Height:	7" (178.00)
Weight (max):	16 lbs (7.25kg)



### Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
DSX0 LED	Forward optics P1 P4 P7 P2 P5 P3 P6 Rota head optics P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMERC Amber phosphor converted <sup>2</sup>	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short	T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>3,4</sup> LCCO Left corner output <sup>3,4</sup> RCCO Right corner output <sup>3,4</sup>	MVOLT <sup>4</sup> 120 <sup>5</sup> 208 <sup>5</sup> 240 <sup>5</sup> 277 <sup>5</sup> 347 <sup>5,6</sup> 480 <sup>5,6</sup>	Shipped included SPM Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>7</sup> RPU MBA Round pole universal mounting adaptor <sup>7</sup> Shipped separately KMA DDBXD U West arm mounting bracket adaptor (specify finish) <sup>8</sup>

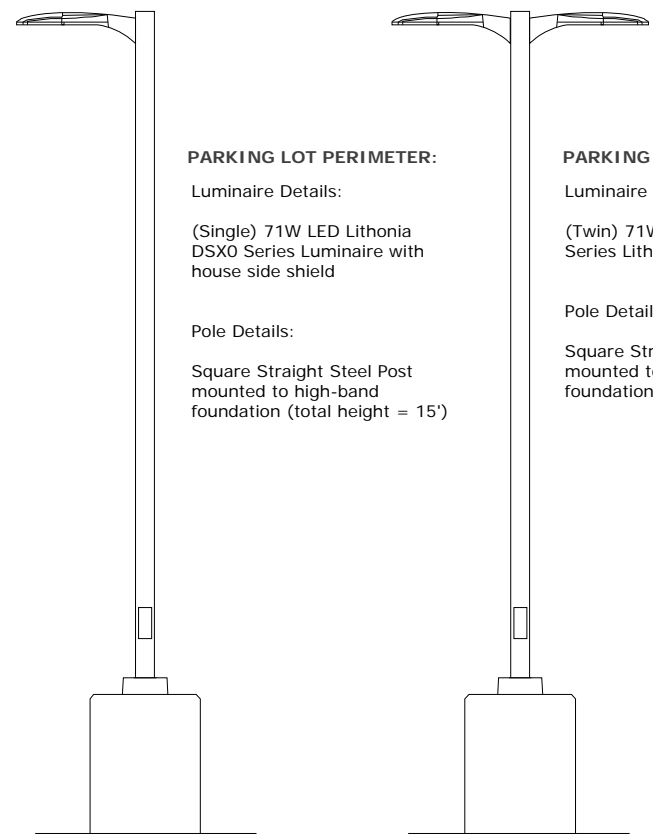
### Control options

Shipped ins-billed	
PER NEWB twist-lock receptacle only (control ordered separate) <sup>9</sup>	
PEBS Five-wire receptacle only (control ordered separate) <sup>9,10</sup>	
PEB Seven-wire receptacle only (control ordered separate) <sup>9,10</sup>	
DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	
PIR Bi-level motion/ambient sensor 8-15' mounting height, ambient sensor enabled at 5ft <sup>11</sup>	
PIRH Bi-level motion/ambient sensor 15-30' mounting height, ambient sensor enabled at 5ft <sup>11</sup>	
PIR-FC-3V Bi-level motion/ambient sensor 8-15' mounting height, ambient sensor enabled at 1ft <sup>11</sup>	

PIR-FC-3V Bi-level motion/ambient sensor 15-30' mounting height, ambient sensor enabled at 1ft <sup>11</sup>	
BL30 Bi-level switched dimming, 30W <sup>12</sup>	
BL50 Bi-level switched dimming, 50W <sup>12</sup>	
PNTD03 Part night, dim till dawn <sup>13</sup>	
PNTD05 Part night, dim 5 hrs <sup>13</sup>	
PNTD06 Part night, dim 6 hrs <sup>13</sup>	
PNTD07 Part night, dim 7 hrs <sup>13</sup>	
FAO Field adjustable output <sup>14</sup>	

Shipped installed	
HS House-side shield <sup>15</sup>	
SF Single fuse (120, 277, 347V) <sup>16</sup>	
DF Double fuse (208, 240, 480V) <sup>16</sup>	
L90 Left rotated optics <sup>1</sup>	
R90 Right rotated optics <sup>1</sup>	
DDL Diffused drop lens <sup>17</sup>	
Order separately	
BS Bird spikes	
EGS External glare shield	

Finish (view)	
DDBXD Dark bronze	
DBLXD Black	
DNAXD Natural aluminum	
DWBXD White	
DDBTDXD Textured dark bronze	
DBLEBXD Textured black	
DNATDXD Textured natural aluminum	
DWBHGXD Textured white	



**PARKING LOT PERIMETER:**  
Luminaire Details:  
(Single) 71W LED Lithonia DSX0 Series Luminaire with house side shield  
  
Pole Details:  
Square Straight Steel Post mounted to high-band foundation (total height = 15')

**PARKING LOT INTERIOR:**  
Luminaire Details:  
(Twin) 71W LED Lithonia DSX0 Series Lithonia Luminaires  
  
Pole Details:  
Square Straight Steel Post mounted to high-band foundation (total height = 15')

### Schedule

Symbol	Label	Image	QTY	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
• • •	71W LED DSX0 T4M (TWIN)		5	DSX0 LED P3 40K T4M MVOLT	LED	1	8268	0.767	142	 Max: 4705cd
•	71W LED DSX0 T4M HS (SINGLE)		3	DSX0 LED P3 40K T4M MVOLT with houseside shield	LED	1	6417	0.767	71	 Max: 4320cd



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.9041 • [www.lithonia.com](http://www.lithonia.com)  
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DSX0 LED Rev. 10/25/17 Page 1 of 7

# DTE Energy



Johnny Black's Parking Lot - Revision 2  
71W LED Lithonia DSX0 Series (15' MH)  
DTE Photometric Site Plan 2  
Community Lighting Group

Designer  
M. Valascho  
Date  
12/06/2018  
Scale  
Not to Scale  
Drawing No.

Summary

**Statistics**

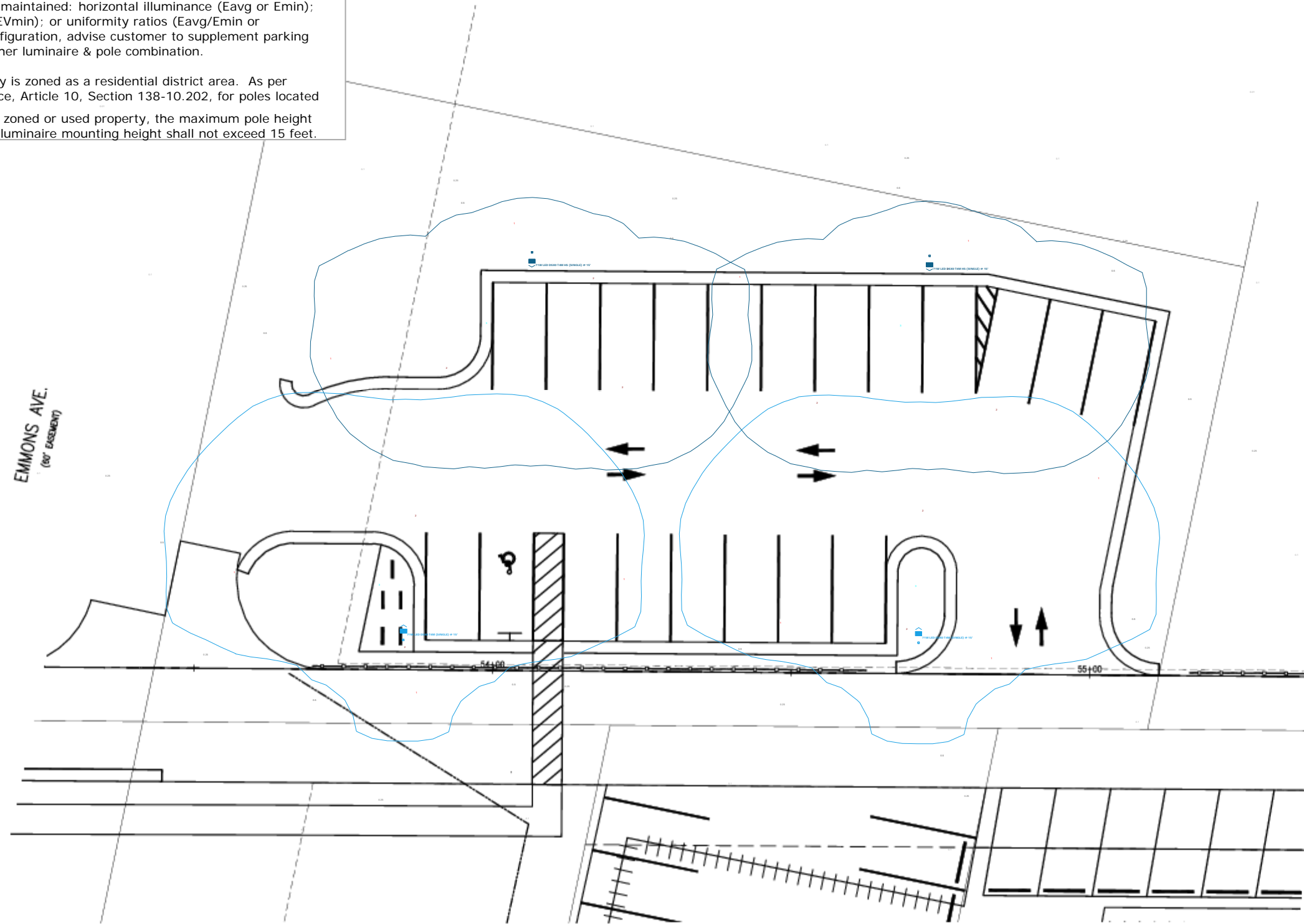
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT - HORIZONTAL	+	1.8 fc	3.8 fc	0.2 fc	19.0:1	9.0:1

**GENERAL NOTES:**

Lighting design does NOT meet IESNA Recommended Practices for Parking Facilities (IES RP-20-14) with MINIMUM maintained: horizontal illuminance (Eavg or Emin); vertical illuminance (EVavg or EVmin); or uniformity ratios (Eavg/Emin or Emax/Emin). With current configuration, advise customer to supplement parking with additional luminaires or other luminaire & pole combination.

Emmons Ave. parking lot facility is zoned as a residential district area. As per Rochester Hills Zoning Ordinance, Article 10, Section 138-10.202, for poles located within 50 feet of a residentially zoned or used property, the maximum pole height shall be 15 feet and maximum luminaire mounting height shall not exceed 15 feet.

2905 EMMONS AVE.  
(60' ROW)



**Plan View**

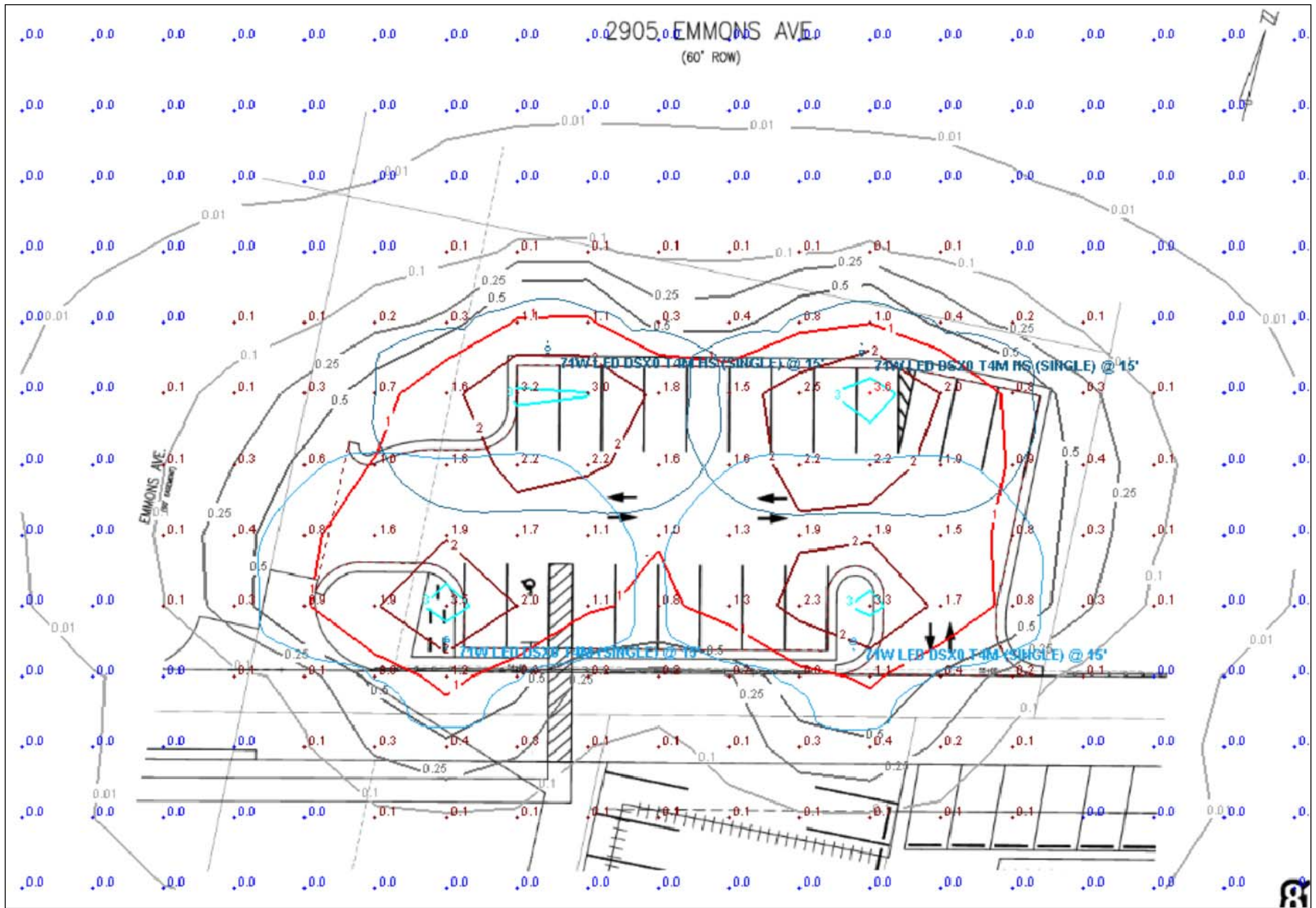
Scale: 1" = 20'



Emmons Parking Lot  
71W LED Lithonia DSXO Series (15' MH)  
DTE Photometric Site Plan 1  
Community Lighting Group

Designer  
M. Valascho  
Date  
1/14/2019  
Scale  
Not to Scale  
Drawing No.

Summary



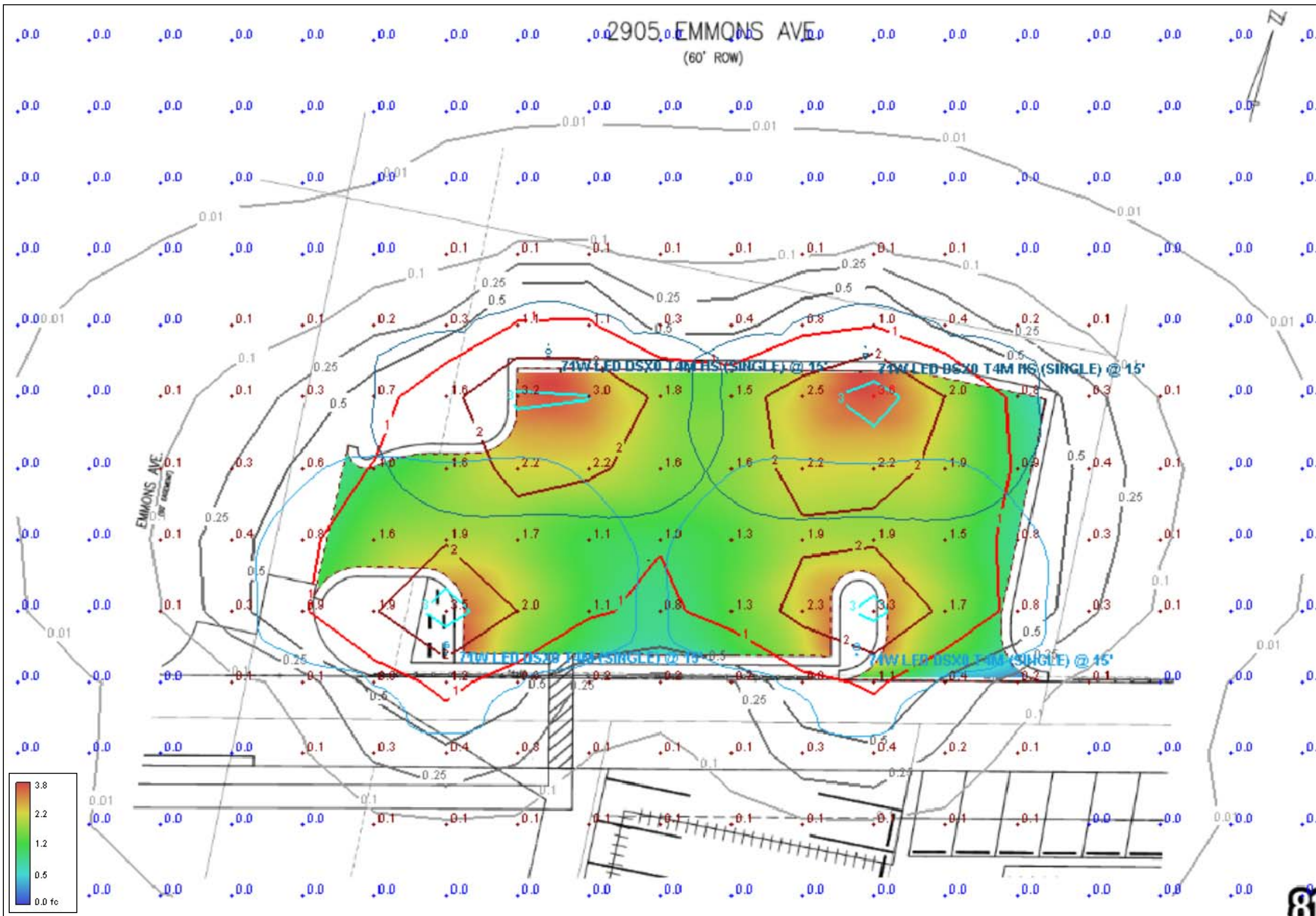
Photometric Plan View 1



Emmons Parking Lot  
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Summary



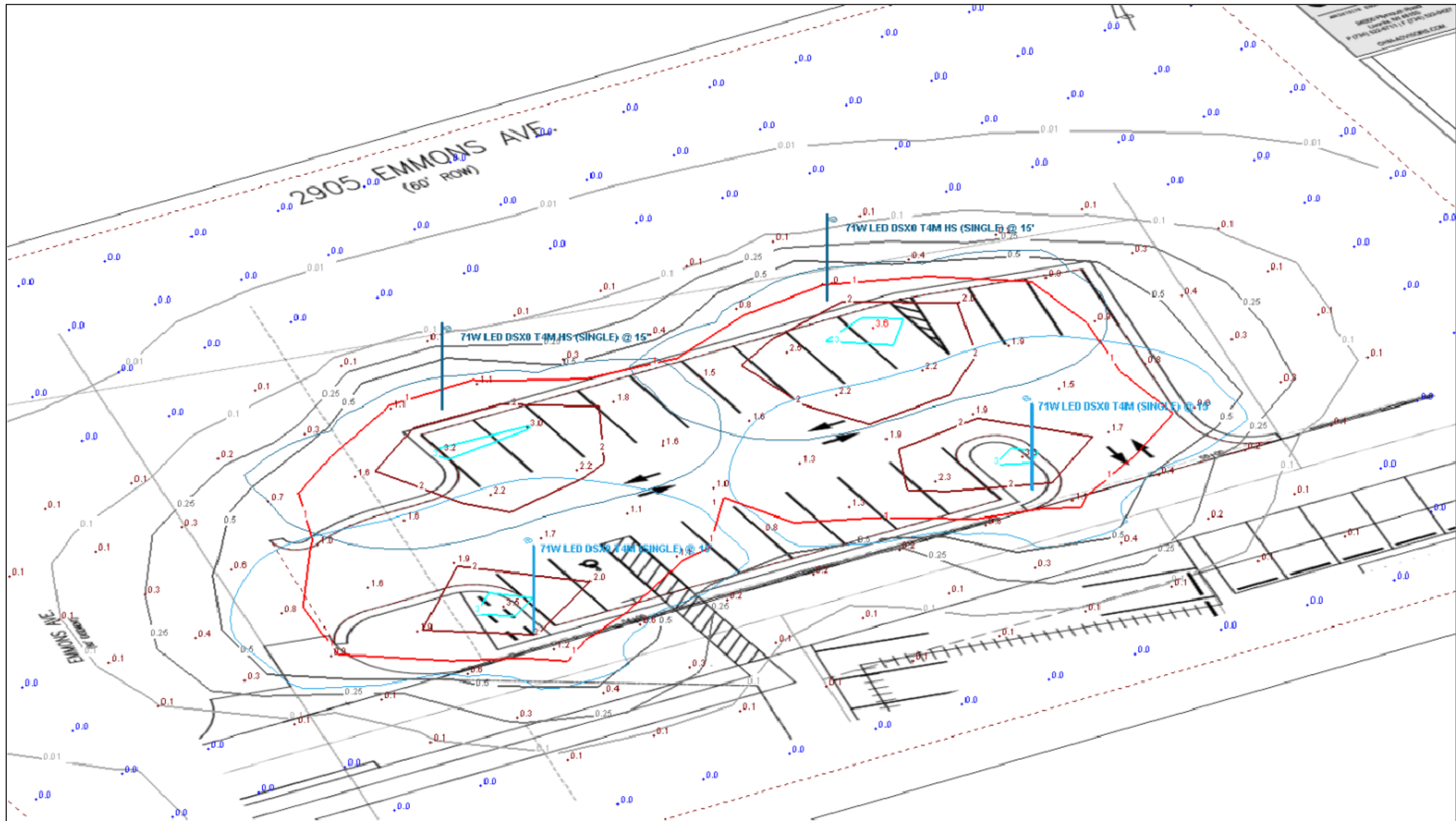
Photometric Plan View 2



Emmons Parking Lot  
71W LED Lithonia DSX0 Series (15' MH)  
DTE Photometric Site Plan 1  
Community Lighting Group

Designer  
M. Valascho  
Date  
1/14/2019  
Scale  
Not to Scale  
Drawing No.

Summary



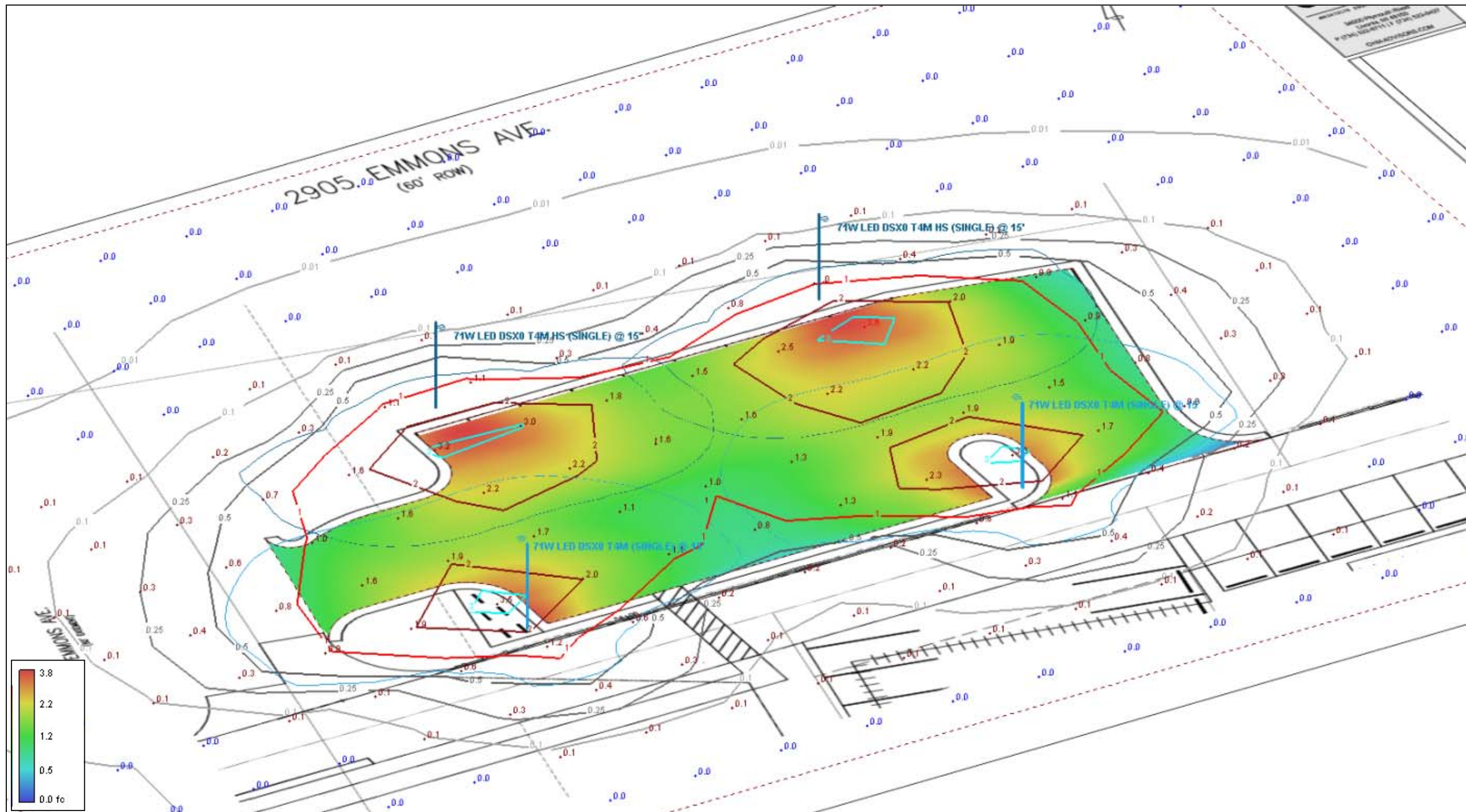
Photometric Profile View 1



Emmons Parking Lot  
 71W LED Lithonia DSX0 Series (15' MH)  
 DTE Photometric Site Plan 1  
 Community Lighting Group

Designer  
 M. Valascho  
 Date  
 1/14/2019  
 Scale  
 Not to Scale  
 Drawing No.

Summary



Photometric Profile View 2



## D-Series Size 0 LED Area Luminaire



Order Number	
Model	
Type	

Use the table to enter the page to which this drawing is linked.

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

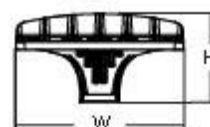
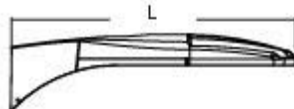
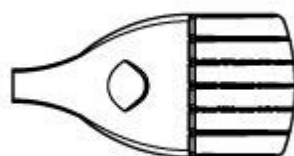
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM<sup>®</sup> or XPoint<sup>™</sup> Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/a-plus](http://www.acuitybrands.com/a-plus).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

### Specifications

EPA:	0.95 f <sup>2</sup> (0.95m)
Length:	26" (65.0cm)
Width:	13" (33.0cm)
Height:	7" (17.8cm)
Weight (max):	16 lbs (7.2kg)



### Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting		
DSX0 LED	Forward optics P1 P4 P7 P2 P5 P3 P6 Rota head optics P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMERC Amber phosphor converted <sup>2</sup>	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short	T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>3,4</sup> LCCO Left corner output <sup>3,4</sup> RCCO Right corner output <sup>3,4</sup>	MVOLT <sup>4</sup> 120 <sup>5</sup> 208 <sup>5</sup> 240 <sup>5</sup> 277 <sup>5</sup> 347 <sup>5,6</sup> 480 <sup>5,6</sup>	Shipped included SPM Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>7</sup> RPUMBA Round pole universal mounting adaptor <sup>7</sup> Shipped separately KMA DDBXD U West arm mounting bracket adaptor (specify finish) <sup>8</sup>

### Control options

Shipped installed	
PER NEWB twist-lock receptacle only (control ordered separate) <sup>9</sup>	
PEBS Five-wire receptacle only (control ordered separate) <sup>9,10</sup>	
PER <sup>7</sup> Seven-wire receptacle only (control ordered separate) <sup>9,10</sup>	
DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	
PIR Bi-level motion/ambient sensor 8-15' mounting height, ambient sensor enabled at 5ft <sup>11</sup>	
PIRH Bi-level motion/ambient sensor 15-30' mounting height, ambient sensor enabled at 5ft <sup>11</sup>	
PIR-FC-3V Bi-level motion/ambient sensor 8-15' mounting height, ambient sensor enabled at 1ft <sup>11,12</sup>	

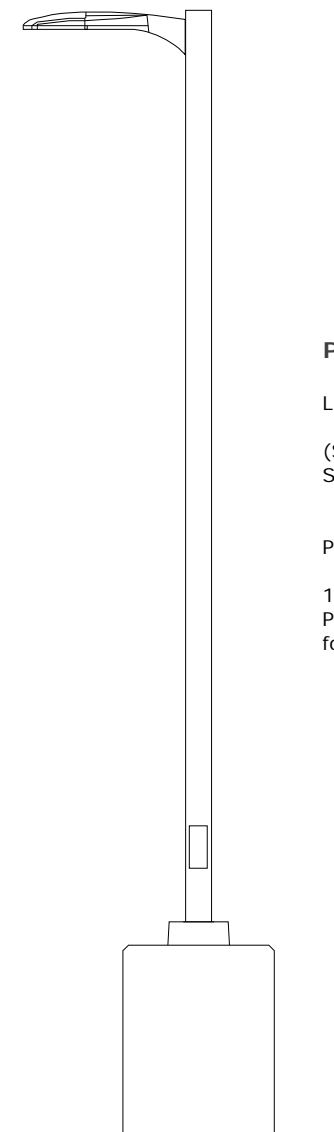
PIR-FC-3V	Bi-level motion/ambient sensor 15-30' mounting height, ambient sensor enabled at 1ft <sup>11,12</sup>
BL30	Bi-level switched dimming, 30% <sup>13</sup>
BL50	Bi-level switched dimming, 50% <sup>13</sup>
PNMTD3	Part night, dim till dawn <sup>14</sup>
PNMTD5	Part night, dim 5 hrs <sup>14</sup>
PNMTD6	Part night, dim 6 hrs <sup>14</sup>
PNMTD7	Part night, dim 7 hrs <sup>14</sup>
FAO	Field adjustable output <sup>14</sup>

Shipped installed	
HS House-side shield <sup>15</sup>	
SF Single fuse (120, 277, 347V) <sup>16</sup>	
DF Double fuse (208, 240, 480V) <sup>16</sup>	
L90 Left rotated optics <sup>1</sup>	
R90 Right rotated optics <sup>1</sup>	
DDL Diffused drop lens <sup>17</sup>	
Order separately	
BS Bird spikes	
EGS External glare shield	

Finish (specify)	
DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWAHXD	White
DDBLXD	Textured dark bronze
DBLEXD	Textured black
DNALXD	Textured natural aluminum
DWAHXD	Textured white

### Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Mounting Height
☐	71W LED DSX0 T4M (SINGLE)	2	DSX0 LED P3 40K T4M MVOLT	1	8268	0.767	71	15'
☐	71W LED DSX0 T4M HS (SINGLE)	2	DSX0 LED P3 40K T4M MVOLT with houseside shield	1	6417	0.767	71	15'



### PARKING LOT AREA LIGHTING:

Luminaire Details:

(Single) 71W LED Lithonia DSX0 Series Luminaires

Pole Details:

12.5' x 5" Square Straight Steel Pole mounted to 2.5' high-band foundation (total height = 15')



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.9041 • [www.lithonia.com](http://www.lithonia.com)  
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DSX0-LED  
Rev. 10/25/17  
Page 1 of 7

DTE Energy



Emmons Parking Lot  
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