NOTES:
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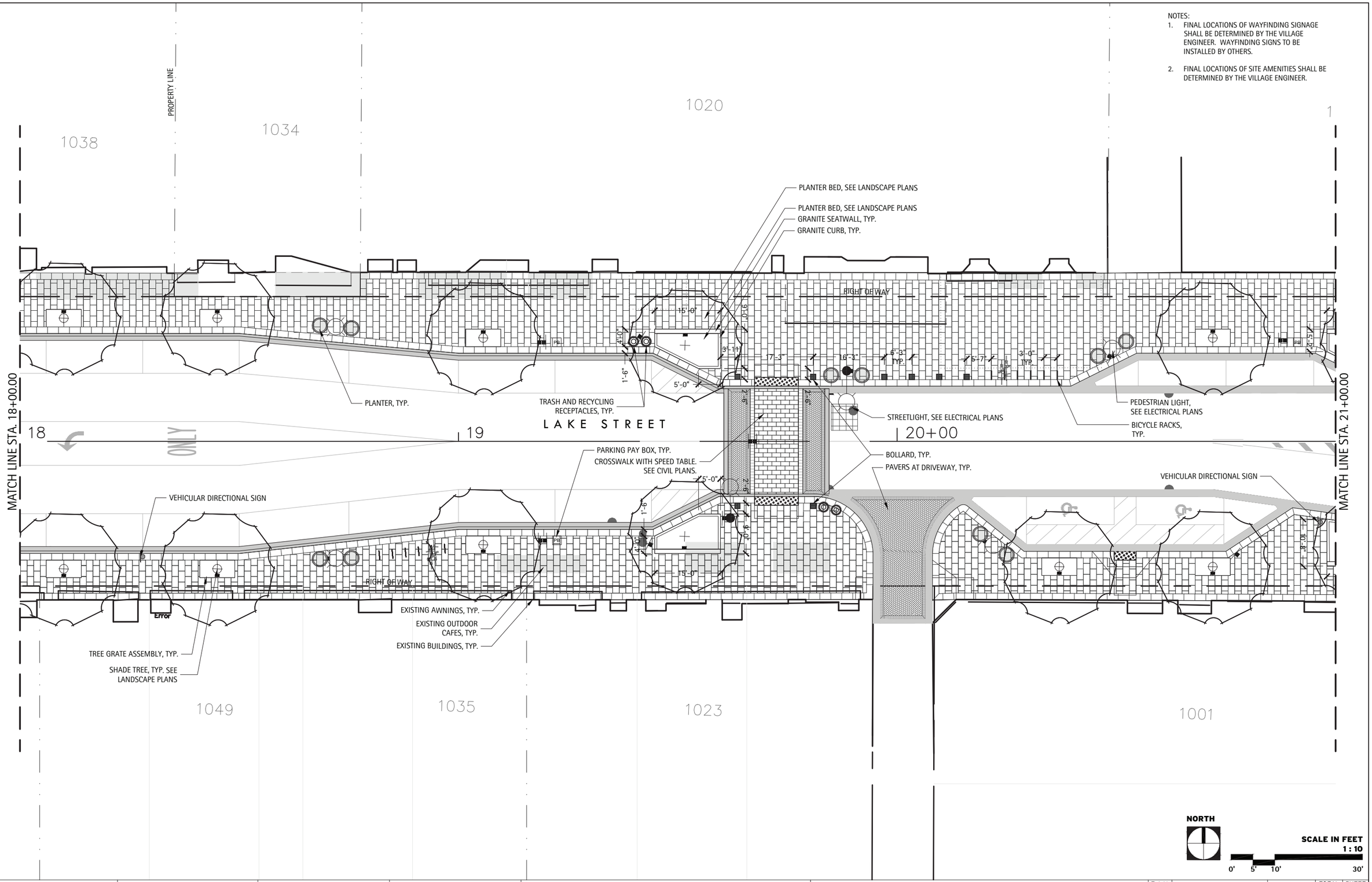
2. FINAL LOCATIONS OF SITE AMENITIES SHALL BE DETERMINED BY THE VILLAGE ENGINEER.



NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

THE LAKOTA GROUP. 116 West Illinois Street Floor 7 Chicago, Illinois 60654 p 312.467.5445 thelakotagroup.com	USER NAME =	DESIGNED — ·	REVISED — ·
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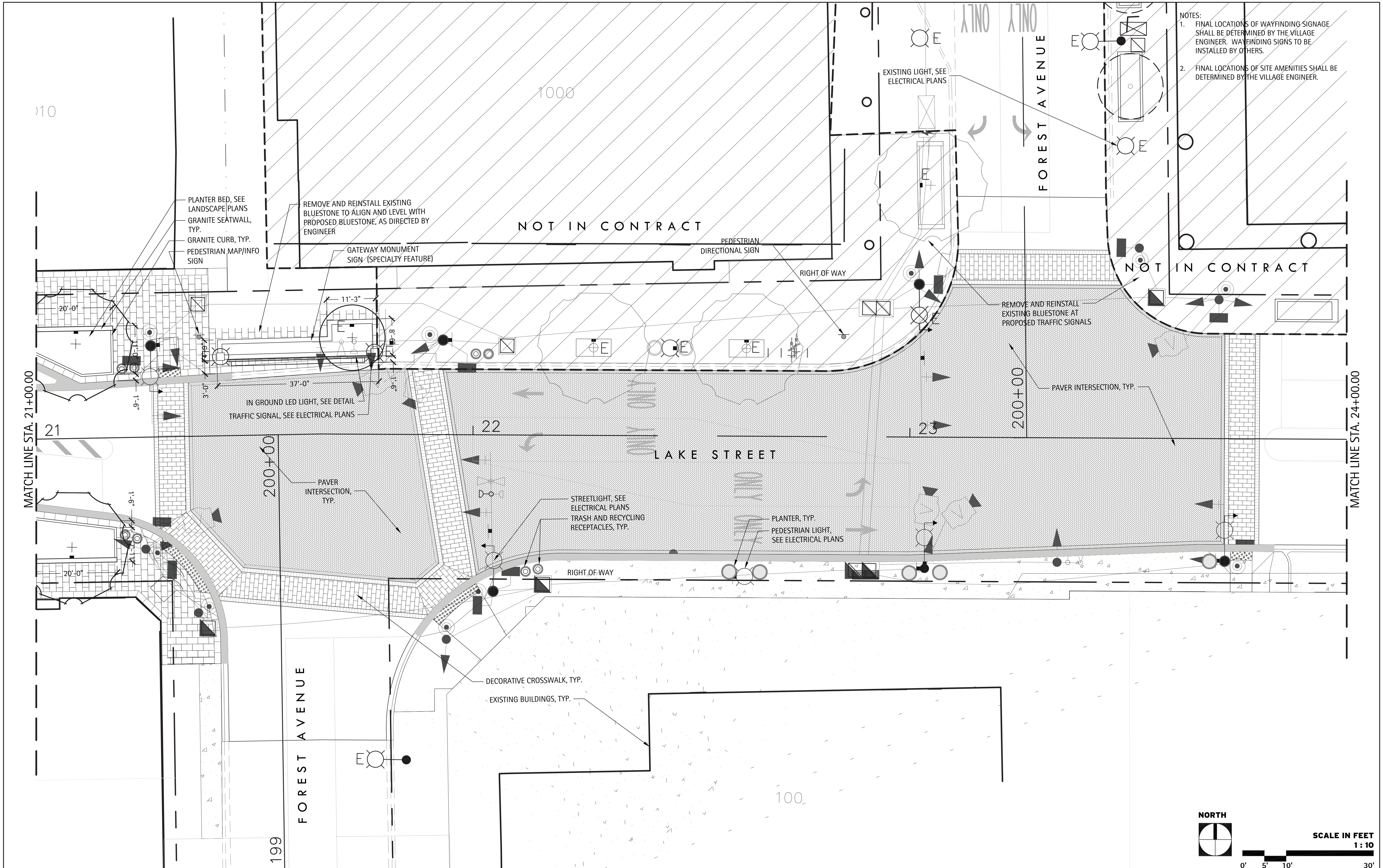
	PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
	PLOT DATE =	DATE — 11/15/2019	REVISED — ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	201
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			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2. FINAL LOCATIONS OF SITE AMENITIES SHALL BE DETERMINED BY THE VILLAGE ENGINEER.
1000
NOT IN CONTRACT
NOT IN CONTRACT
FOREST AVENUE
FOREST AVENUE
LAKE STREET
MATCH LINE STA. 21+00.00
MATCH LINE STA. 24+00.00
PLANTER BED, SEE LANDSCAPE PLANS
GRANITE SEATWALL, TYP.
GRANITE CURB, TYP.
PEDESTRIAN MAP/INFO SIGN
REMOVE AND REINSTALL EXISTING BLUESTONE TO ALIGN AND LEVEL WITH PROPOSED BLUESTONE, AS DIRECTED BY ENGINEER
GATEWAY MONUMENT SIGN (SPECIALTY FEATURE)
PEDESTRIAN DIRECTIONAL SIGN
RIGHT OF WAY
EXISTING LIGHT, SEE ELECTRICAL PLANS
REMOVE AND REINSTALL EXISTING BLUESTONE AT PROPOSED TRAFFIC SIGNALS
PAVER INTERSECTION, TYP.
IN GROUND LED LIGHT, SEE DETAIL
TRAFFIC SIGNAL, SEE ELECTRICAL PLANS
PAVER INTERSECTION, TYP.
STREETLIGHT, SEE ELECTRICAL PLANS
TRASH AND RECYCLING RECEPTACLES, TYP.
PLANTER, TYP.
PEDESTRIAN LIGHT, SEE ELECTRICAL PLANS
RIGHT OF WAY
DECORATIVE CROSSWALK, TYP.
EXISTING BUILDINGS, TYP.
20'-0"
11'-3"
37'-0"
200+00
100
199
NORTH
SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	202
		CONTRACT NO. 61F36		

ILLINOIS FED. AID PROJECT

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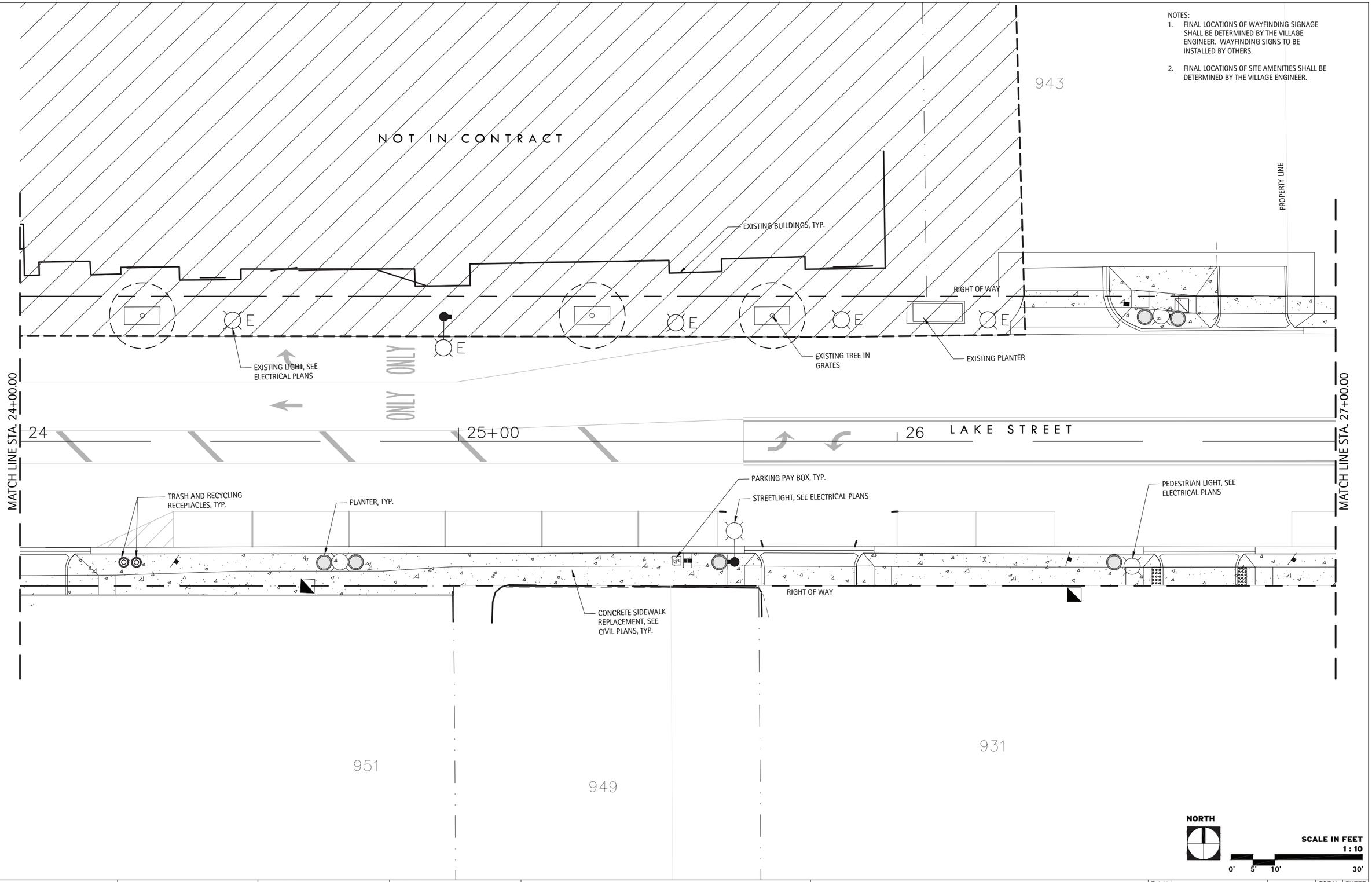

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

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PLOT DATE =	DATE – 11/15/2019	REVISED – ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16–00264–00–PV	COOK	344	203
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

NOTES:
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941 924 151 151

PROPERTY LINE

RIGHT OF WAY

PB

PEDESTRIAN LIGHT, SEE ELECTRICAL PLANS

MATCH LINE STA. 27+00.00

27 LAKE STREET 28 29

ONLY

MATCH LINE STA. 30+00.00

STREETLIGHT, SEE ELECTRICAL PLANS

PLANTER, TYP.

TRASH AND RECYCLING RECEPTACLES, TYP.

VEHICULAR DIRECTIONAL SIGN

PEDESTRIAN DIRECTIONAL SIGN

RIGHT OF WAY

CONCRETE SIDEWALK REPLACEMENT, SEE CIVIL PLANS, TYP.

EXISTING BUILDINGS, TYP.

PARKING PAY BOX, TYP.

BENCHES (2' METAL BENCH), TYP.

BENCH 6', TYP.

929 920 921 910

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	204
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

NOTES:
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N KENILWORTH AVE

RIGHT OF WAY

PROPERTY LINE

848

848

820

901

901

875

MATCH LINE STA. 30+00.00

30+00

300+00

31

32

LAKE STREET

ONLY

MATCH LINE STA. 33+00.00

299 N KENILWORTH AVE

300+00

RIGHT OF WAY

PLANTER BED, SEE LANDSCAPE PLANS

BENCH 6', TYP.

30'-0"

6'-6"

1'-6"

PLANTER, TYP.

CONCRETE PLANTER CURB

TRAFFIC SIGNAL, SEE ELECTRICAL PLANS

VEHICULAR DIRECTIONAL SIGN

STREETLIGHT, SEE ELECTRICAL PLANS

PLANTER BED, SEE LANDSCAPE PLANS

PUMP HOUSE ENCLOSURE, SEE IRRIGATION PLANS

CONCRETE PLANTER CURB, TYP.

1'-6"

18'-0"

TRAFFIC SIGNAL, SEE ELECTRICAL PLANS

TRASH AND RECYCLING RECEPTACLES, TYP.

STRIPED CROSSWALK, SEE CIVIL PLANS

EXISTING BUILDINGS, TYP.

PARKING PAY BOX, TYP.

PEDESTRIAN MAP/INFO SIGN

CONCRETE SIDEWALK REPLACEMENT, SEE CIVIL PLANS, TYP.

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	205
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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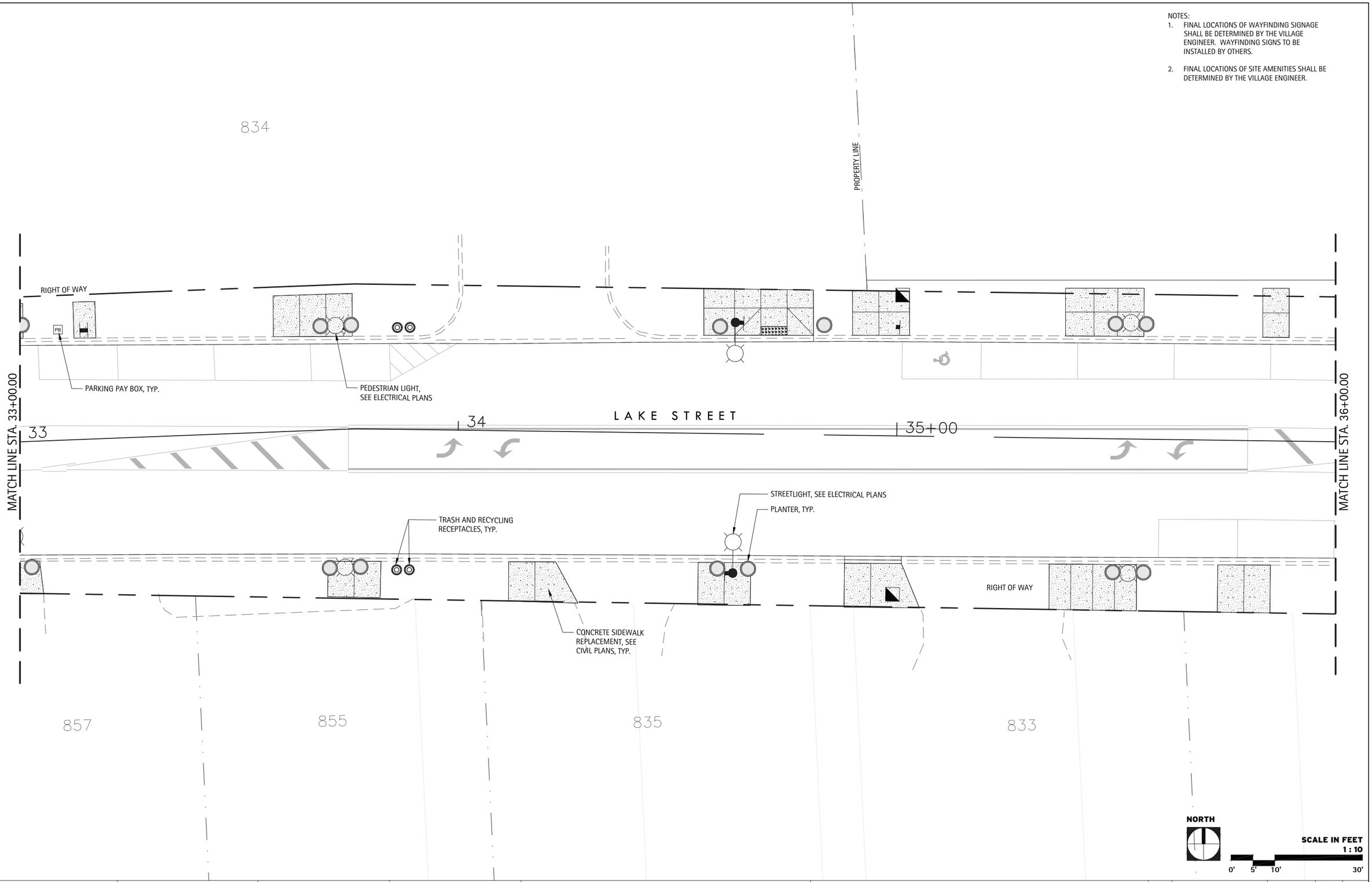

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	206
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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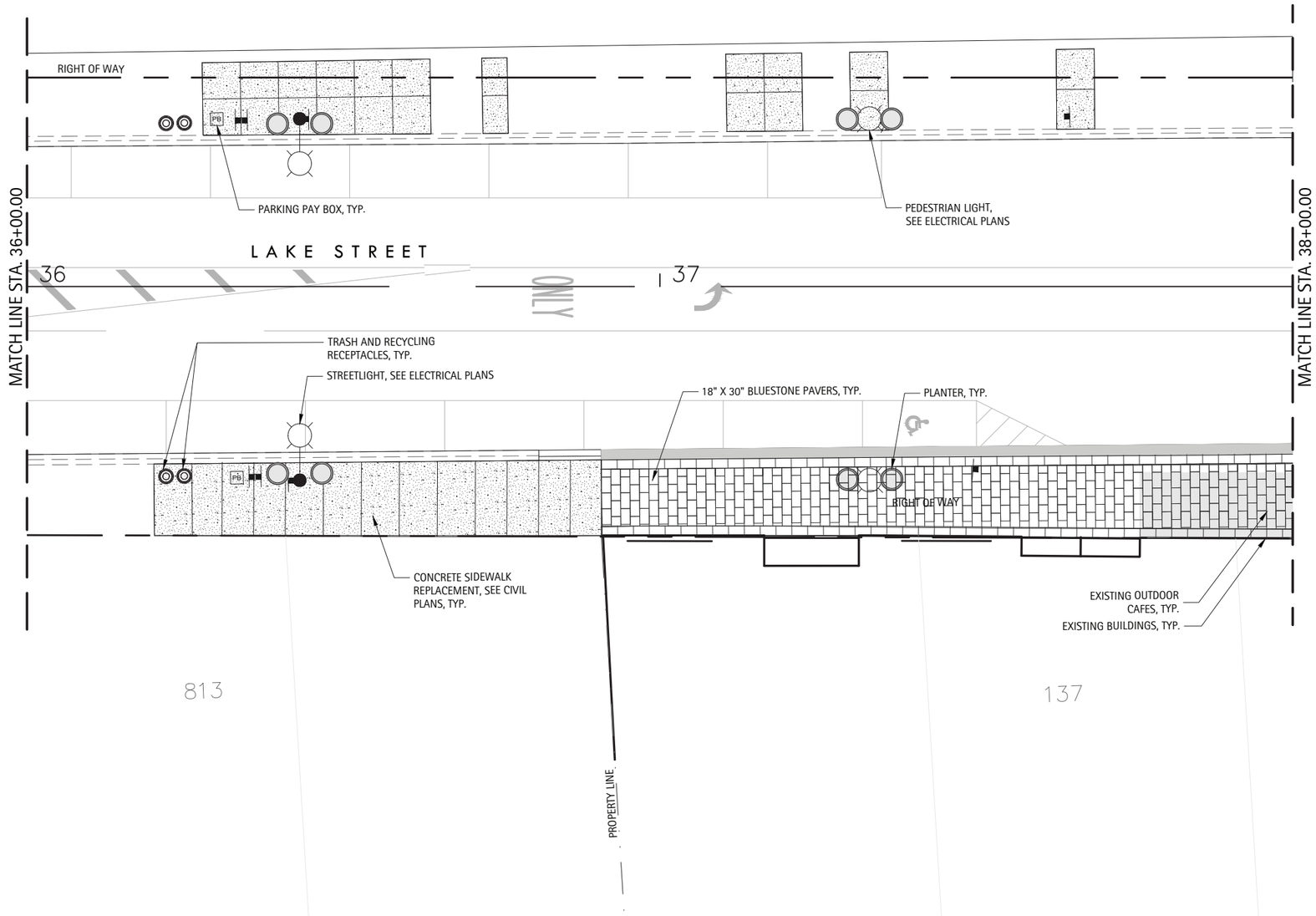
800



NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	207
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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N OAK PARK AVENUE

RIGHT OF WAY

PROPERTY LINE

736

722

720

VEHICULAR DIRECTIONAL SIGN

PEDESTRIAN MAP/INFO SIGN

35'-0"

7'-2"

7'-1"

35'-0"

ONLY

DECORATIVE CROSSWALK, TYP. SEE CIVIL PLANS.

PEDESTRIAN LIGHT, SEE ELECTRICAL PLANS

MATCH LINE STA. 38+00.00

38

400+00

39

40+00

LAKE STREET

ONLY

MATCH LINE STA. 41+00.00

PAVER INTERSECTION, TYP.

BOLLARD, TYP.

PARKING PAY BOX, TYP.

STREETLIGHT, SEE ELECTRICAL PLANS

TRAFFIC SIGNAL, SEE ELECTRICAL PLANS

TRASH AND RECYCLING RECEPTACLES, TYP.

PLANTER, TYP.

BICYCLE RACK, TYP.

VEHICULAR DIRECTIONAL SIGN

1'-6"

4'-0"

8'-0"

6'-3"

9'-0"

7'-1"

18" X 30" BLUESTONE PAVERS, TYP.

EXISTING OUTDOOR CAFES, TYP.

EXISTING AWNINGS, TYP.

EXISTING BUILDINGS, TYP.

TREE GRATE ASSEMBLY, TYP.

SHADE TREE, TYP. SEE LANDSCAPE PLANS

BENCHES (2' METAL BENCH), TYP.

BENCH 6', TYP.

136

719

RIGHT OF WAY

399

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16–00264–00–PV	COOK	344	208
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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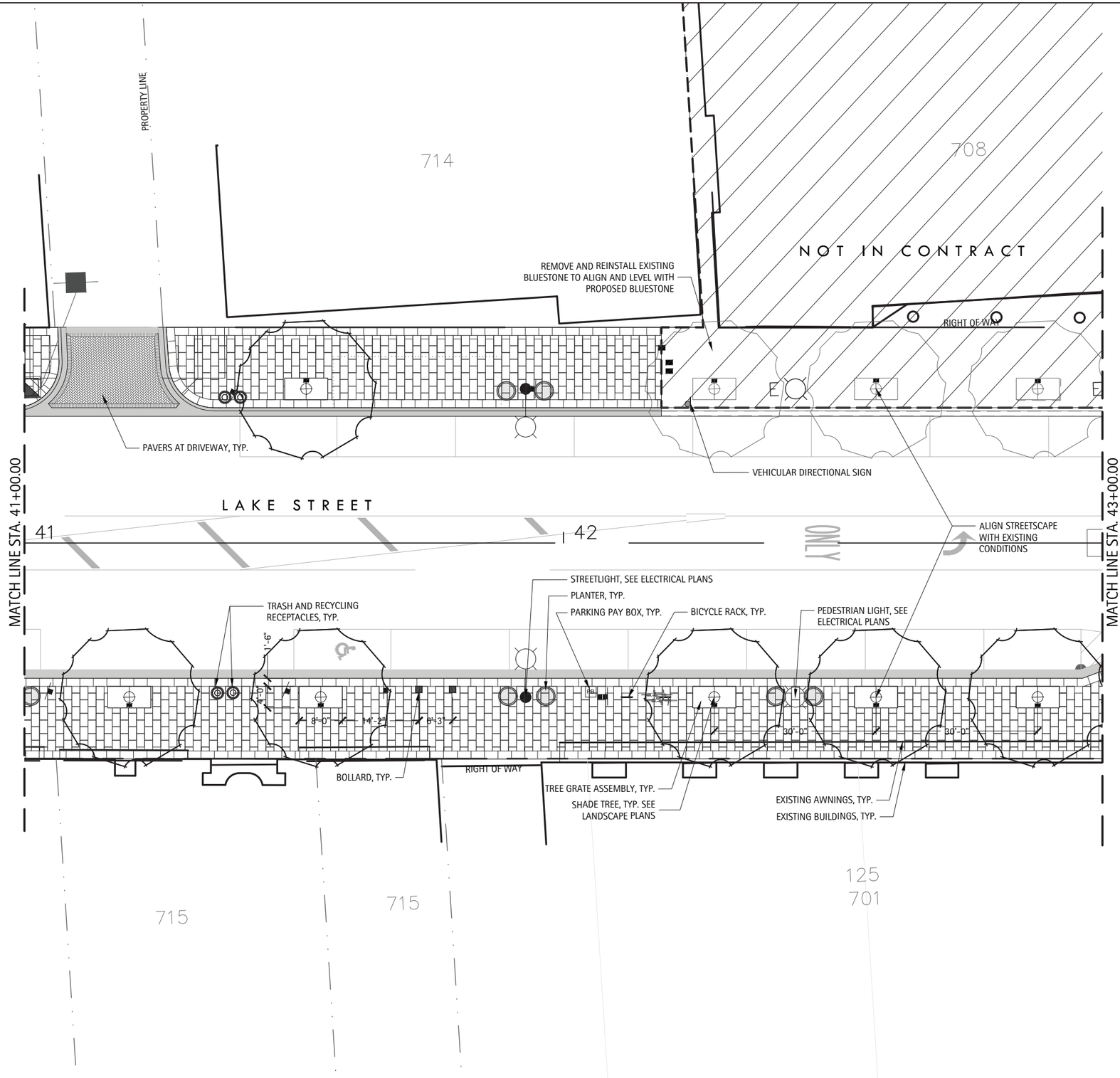

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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NOT IN CONTRACT

RIGHT OF WAY

140

REMOVE AND REINSTALL EXISTING BLUESTONE AT PROPOSED TRAFFIC SIGNALS

PARKING PAY BOX, TYP.

PARKING INFORMATION SIGN

MATCH LINE STA. 43+00.00

500+00

43

44

45+00

ONLY

STRIPED CROSSWALK, SEE CIVIL PLANS

TRAFFIC SIGNAL, SEE ELECTRICAL PLANS

EXISTING LIGHT, SEE ELECTRICAL PLANS

TRASH AND RECYCLING RECEPTACLES, TYP.

PARKING INFORMATION SIGN

BENCHES (2' METAL BENCH), TYP.

BENCH 6', TYP.

PLANTER, TYP.

EXISTING BUILDINGS, TYP.

RIGHT OF WAY

N EUCLID AVENUE

499

675

NORTH

SCALE IN FEET
1 : 10
0' 5' 10' 30'

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

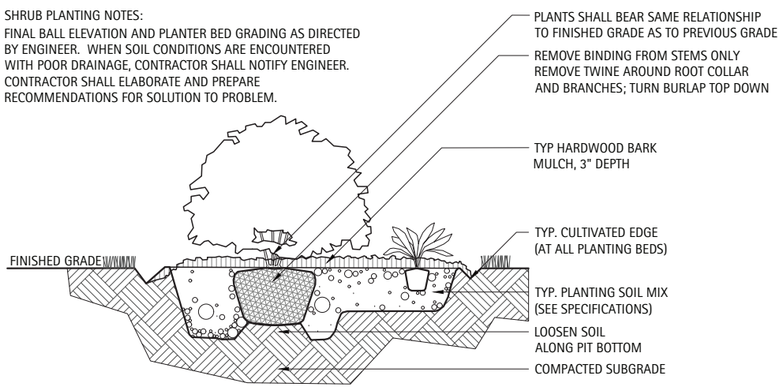
MATERIALS AND AMENITIES PLANS
LAKE STREET

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

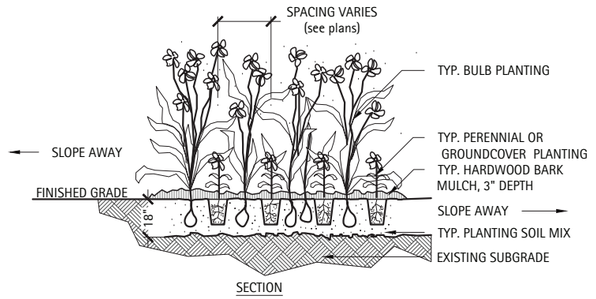
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	210
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

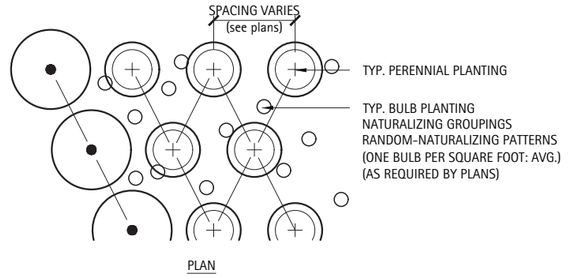
FILE NAME = 01-Lake Street Materials and Amenities Plans.dwg

SHRUB PLANTING NOTES:
FINAL BALL ELEVATION AND PLANTER BED GRADING AS DIRECTED BY ENGINEER. WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, CONTRACTOR SHALL NOTIFY ENGINEER. CONTRACTOR SHALL ELABORATE AND PREPARE RECOMMENDATIONS FOR SOLUTION TO PROBLEM.



1 Section - Shrub Planting
Scale: 1" = 1'-0"





NOTES:

FINAL BALL ELEVATION AND PLANTER BED GRADING AS DIRECTED BY ENGINEER. WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, CONTRACTOR SHALL NOTIFY ENGINEER. CONTRACTOR SHALL ELABORATE AND PREPARE RECOMMENDATIONS FOR SOLUTION TO PROBLEM.

PERENNIAL PLANTING LAYOUTS TO BE APPROVED IN THE FIELD BY ENGINEER PRIOR TO INSTALLATION.

2 Plan, Section - Perennial, Groundcover, and Bulb Planting
Scale: 1/2" = 1'-0"

FILE NAME = 01-Lake Street Planting Details.dwg

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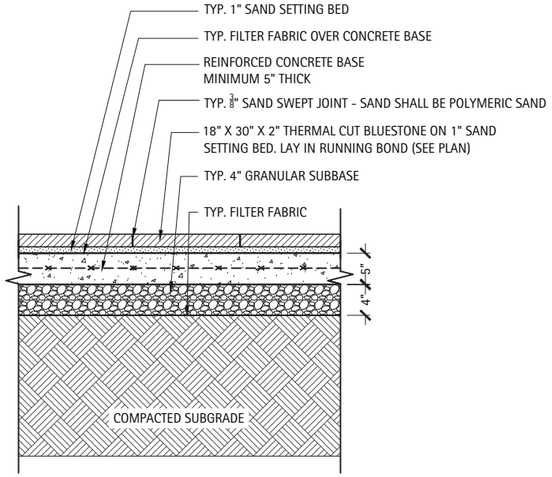
PLANTING DETAILS

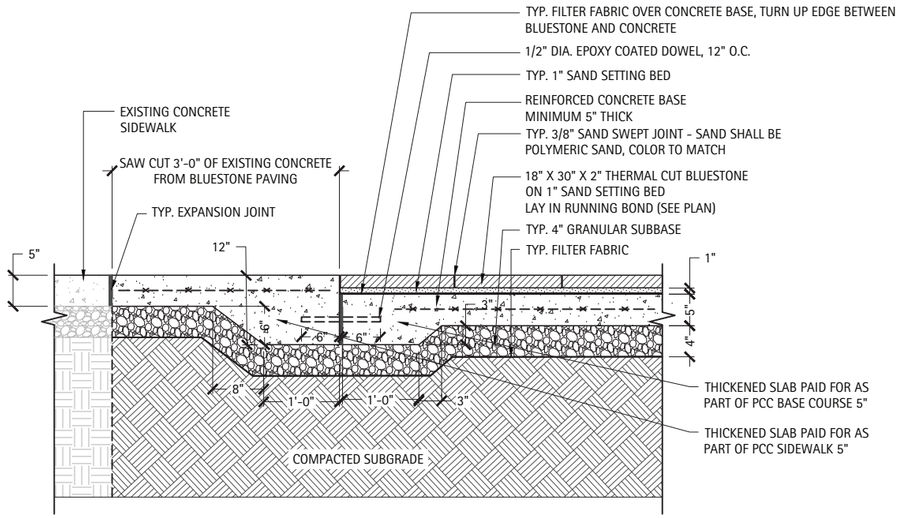
SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	211
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			



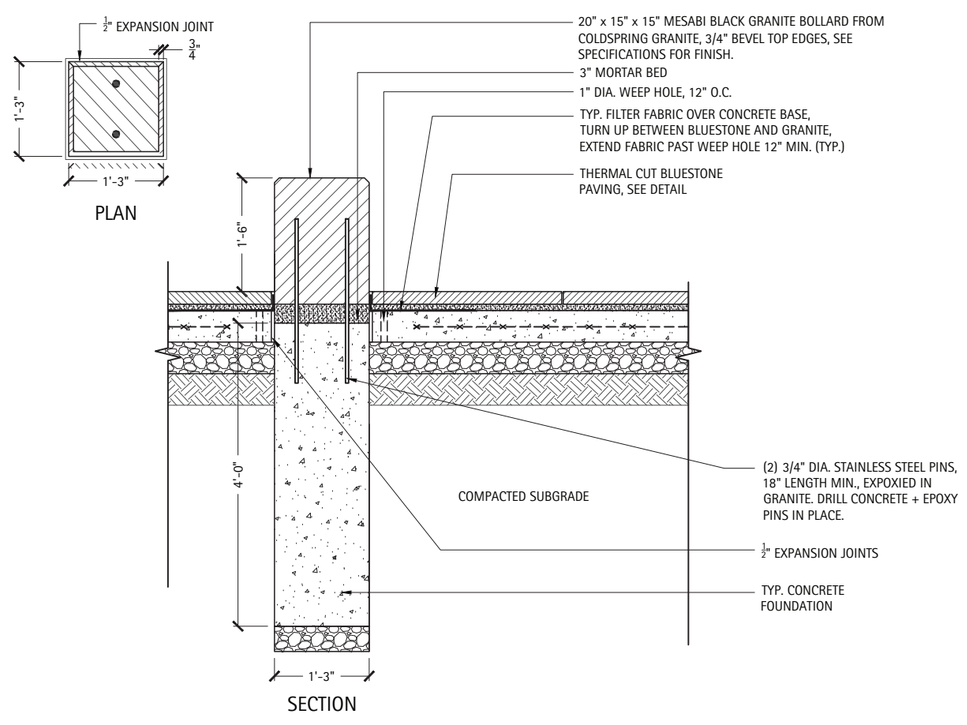
1 Bluestone Paving

Scale: 1" = 1'-0"



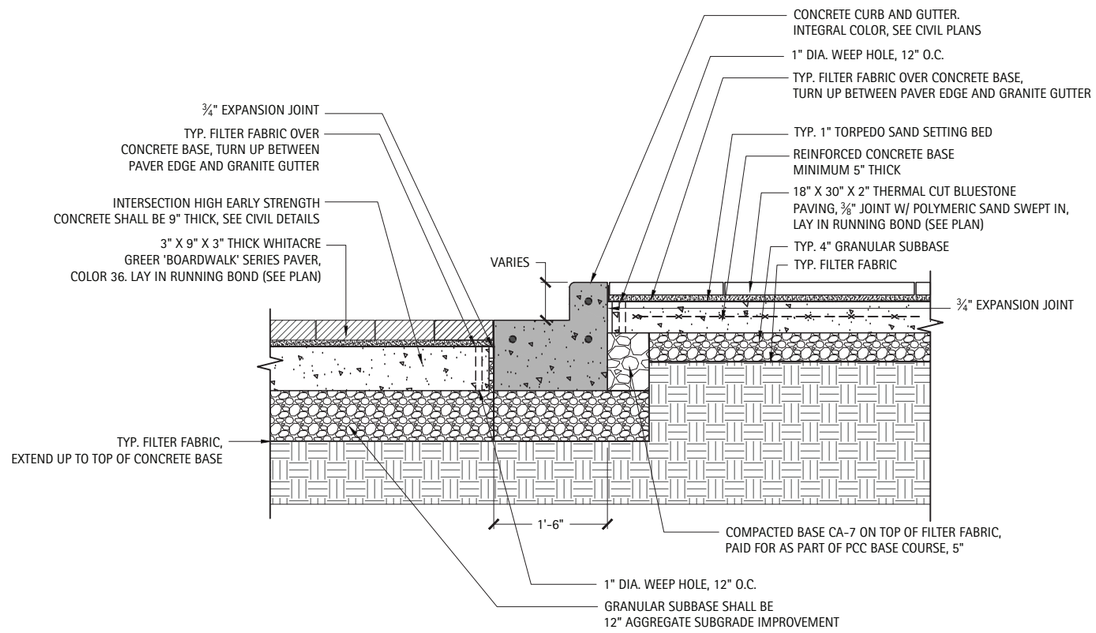
3 Bluestone Paving at Concrete Walk

Scale: 1" = 1'-0"



2 Bollard

Scale: 1"=1'-0"



4 Bluestone at Concrete Curb Section

Scale: 1"=1'-0"

FILE NAME = 01-Loke Street Streetscape Details.dwg

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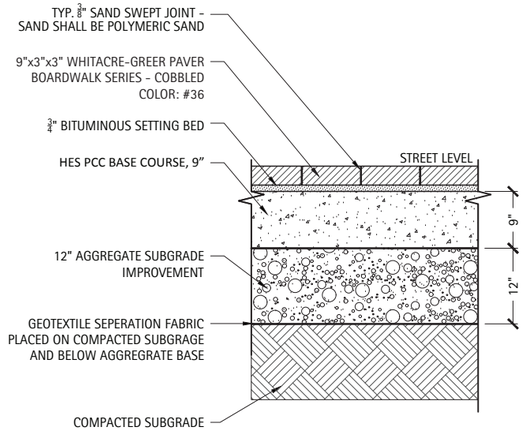
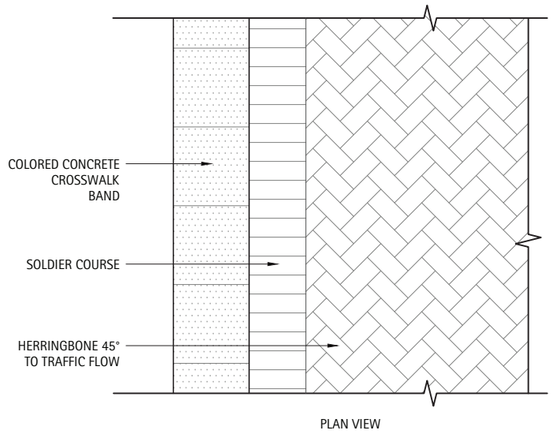
STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

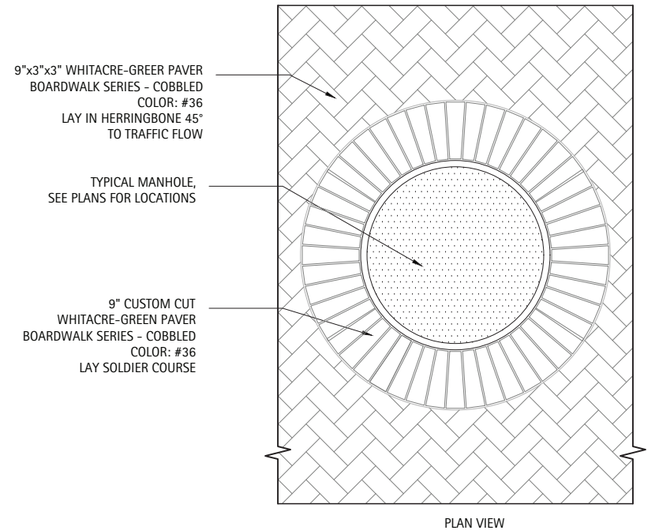
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	212
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			



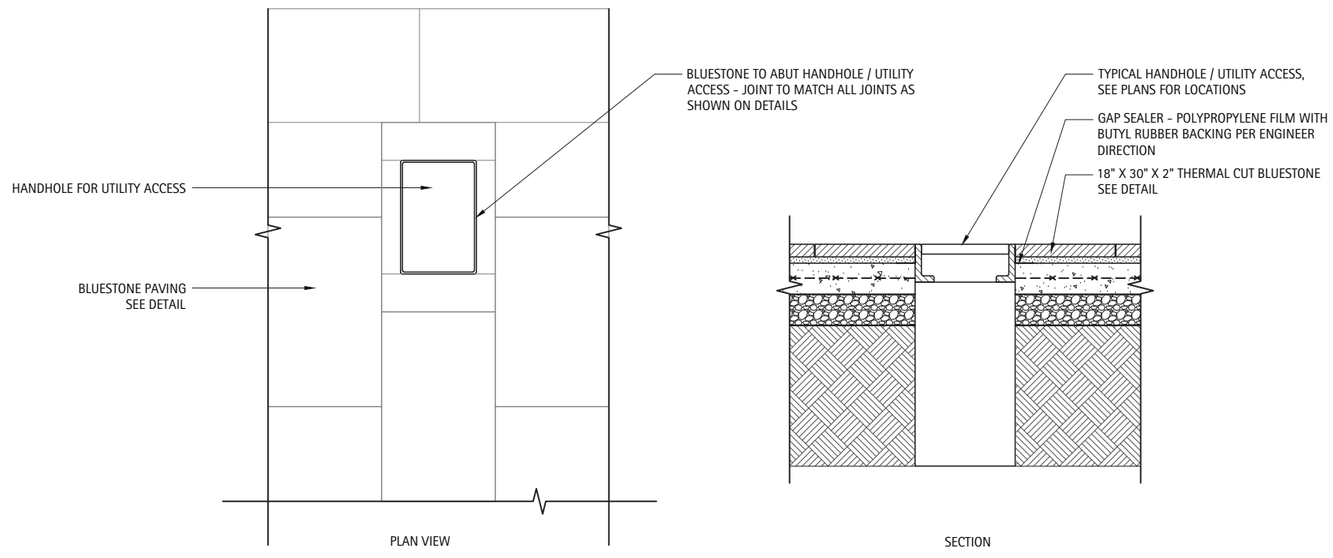
1 Brick Paving
Scale: 1" = 1'-0"



2 Brick Paver Pattern
Scale: 1"=1'-0"



3 Manhole Brick Detail
Scale: 1"=1'-0"



4 Handhole at Bluestone
Scale: 1"=1'-0"

FILE NAME = 01-Lake Street Streetscape Details.dwg

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116 West Illinois Street
Floor 7
Chicago, Illinois 60654
p 312.467.5445
thelakotagroup.com

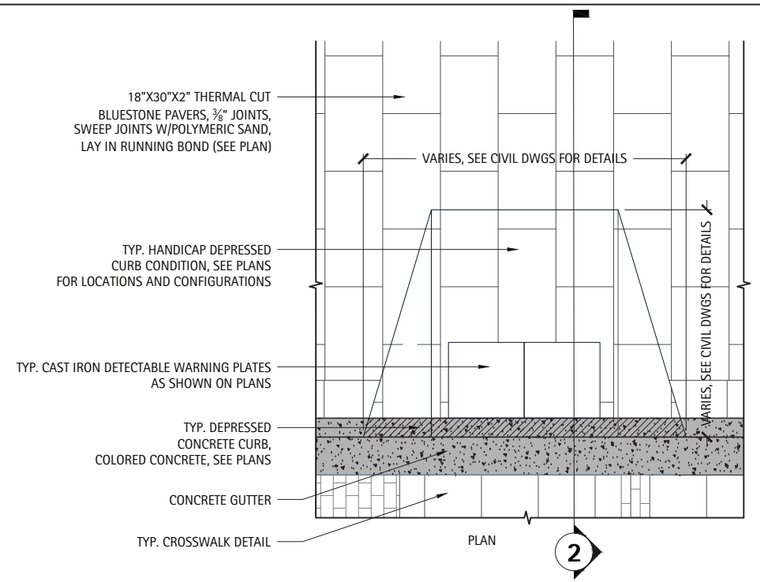
USER NAME =	DESIGNED – ·	REVISED – ·
	DRAWN – DV, MH, JS	REVISED – ·
PLOT SCALE =	CHECKED – KC, DS	REVISED – ·
PLOT DATE =	DATE – 11/15/2019	REVISED – ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	213
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

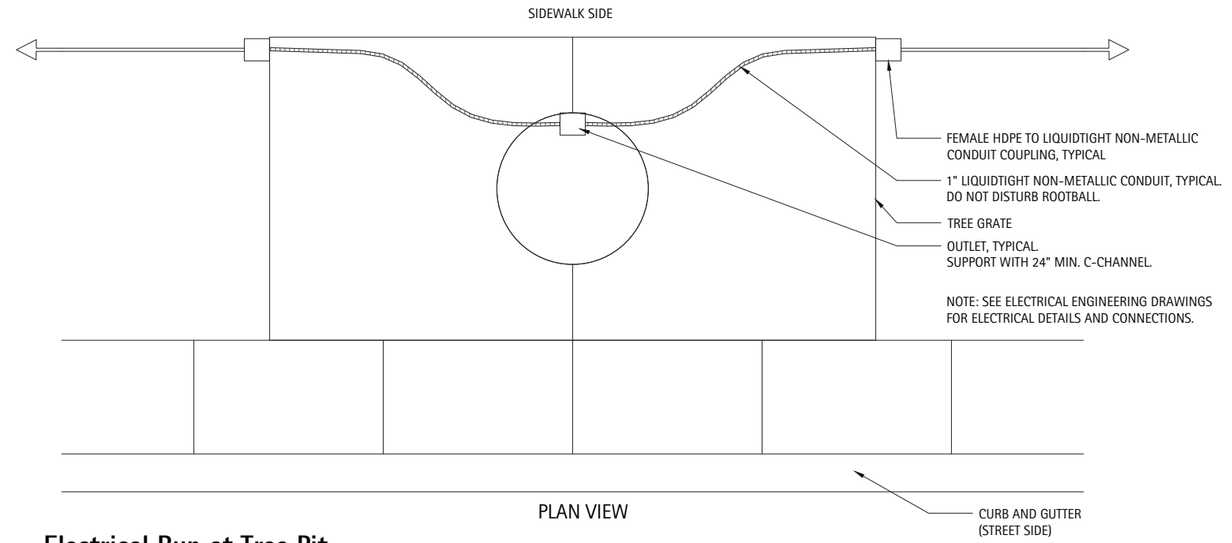


1 Depressed Curb Condition at Crosswalk

Scale: 1"=2'-0"

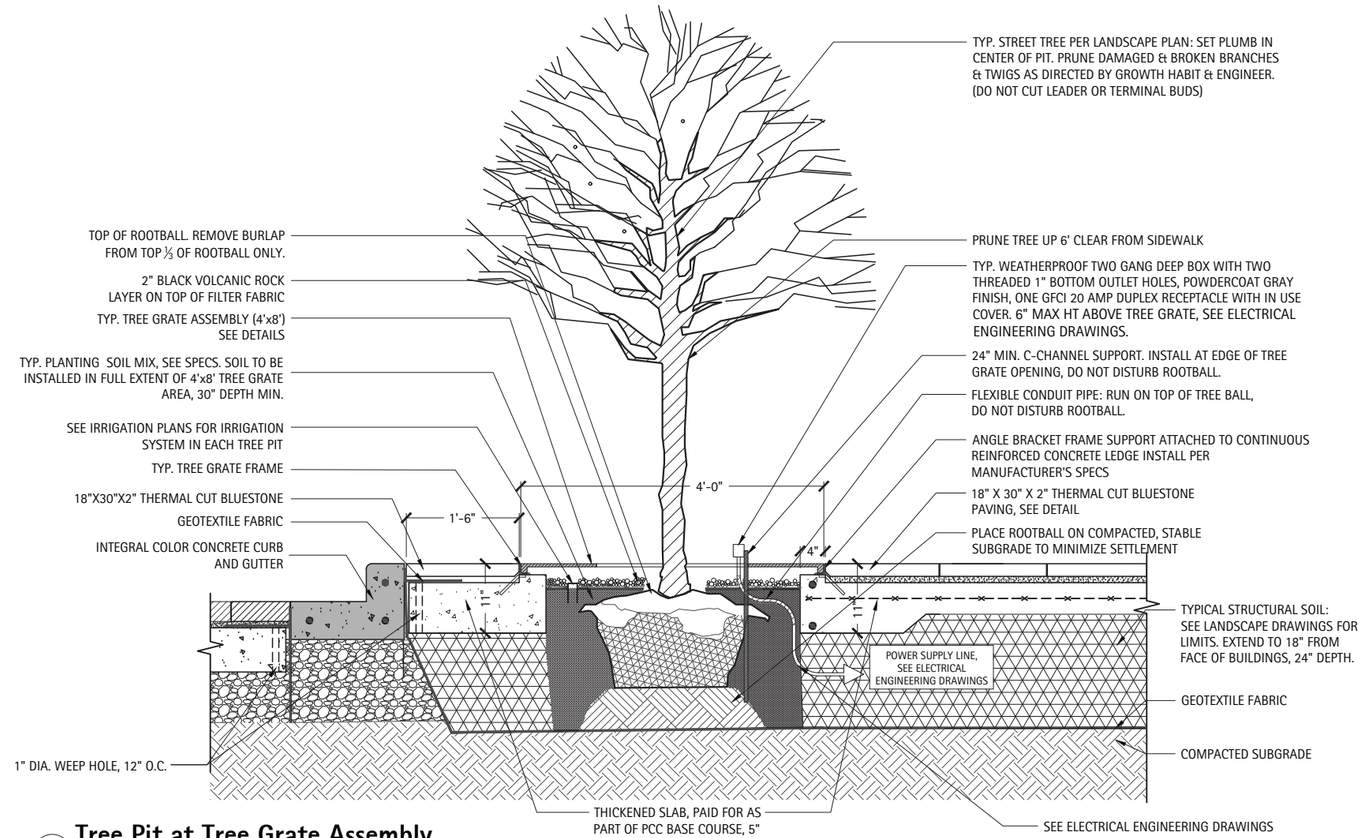
2 Typical Depressed Curb Condition (Section)

Scale: 1"=1'-0"



3 Electrical Run at Tree Pit

Scale: 1"=1'-0"



4 Tree Pit at Tree Grate Assembly

Scale: 1"=1'-0"

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PLOT DATE =	DATE — 11/15/2019	REVISED — ·

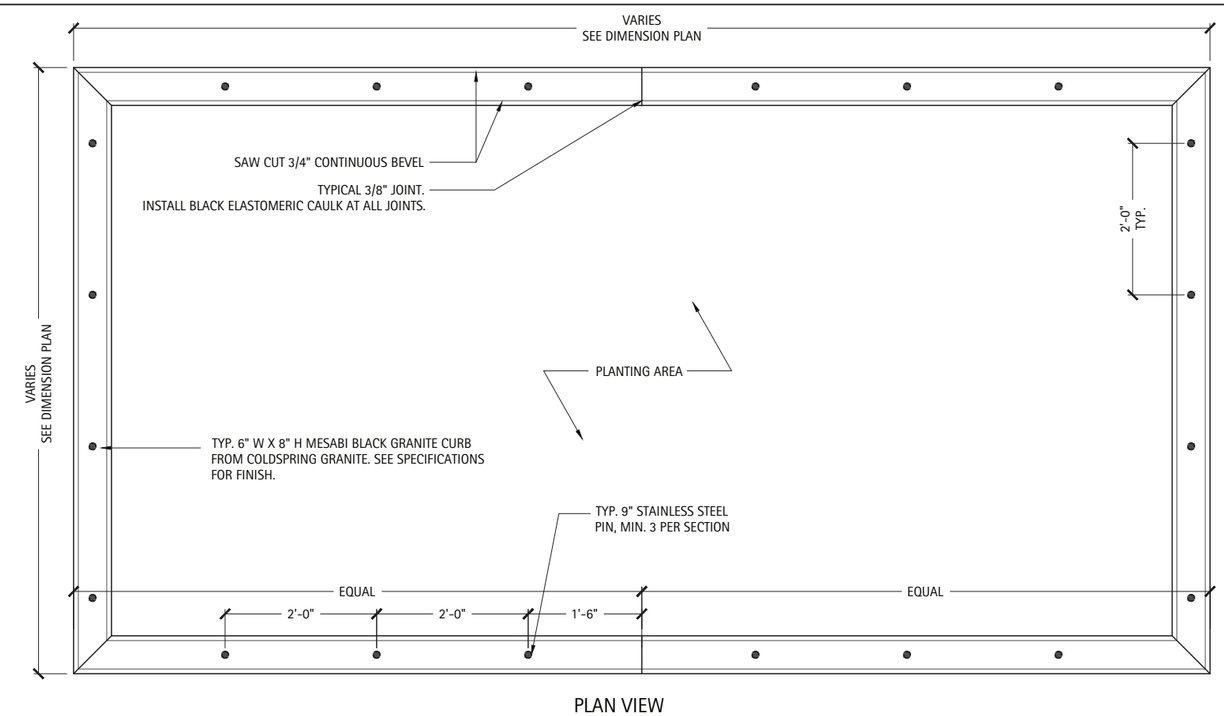
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

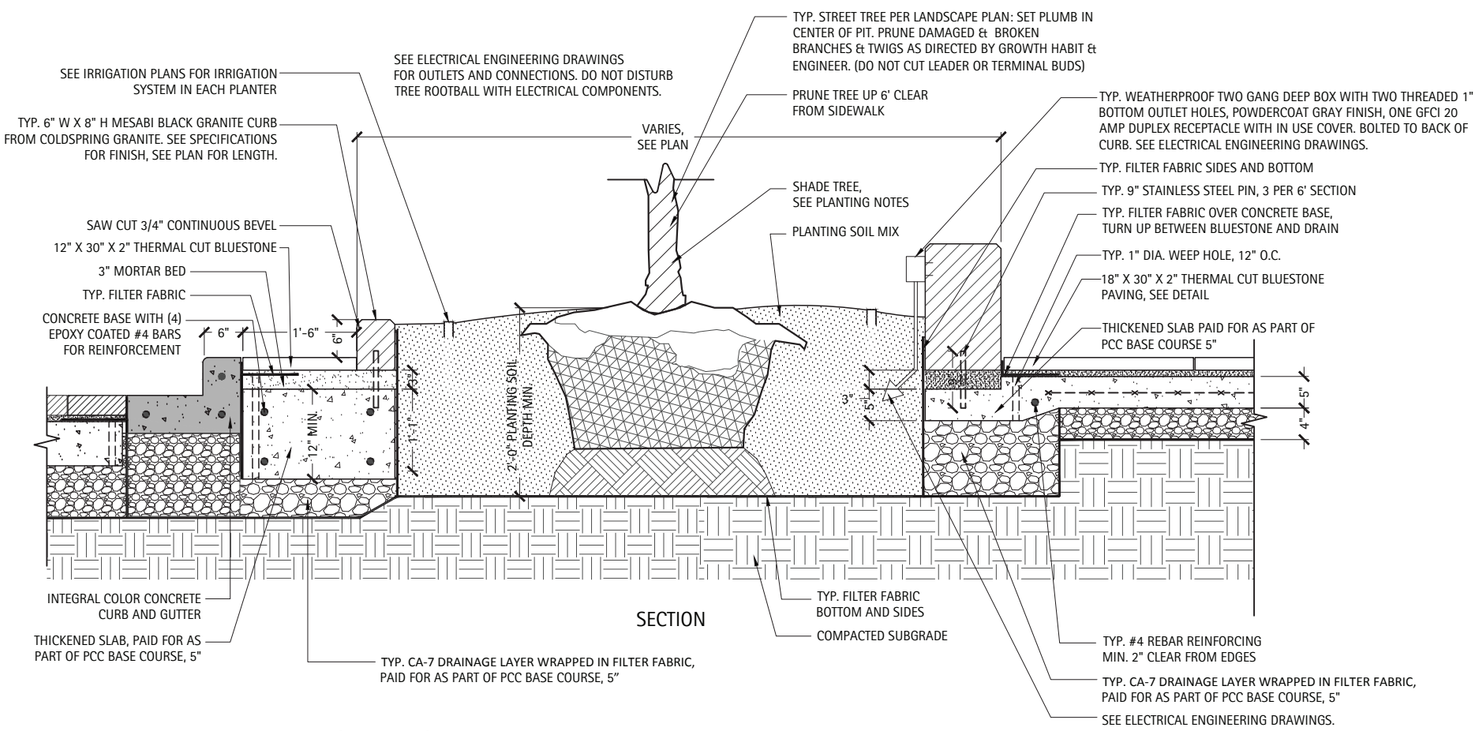
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	214
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Loke Street Streetscape Details.dwg



PLAN VIEW

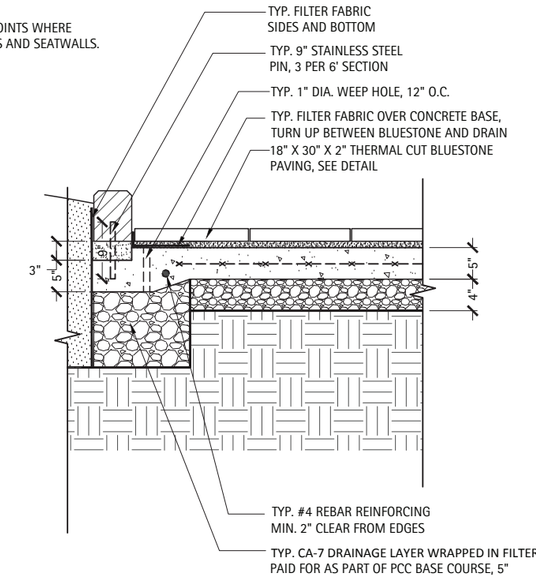
NOTE:
INSTALL BLACK ELASTOMERIC CAULK AT JOINTS WHERE BLUESTONE MEETS BLACK GRANITE CURBS AND SEATWALLS.



SECTION

1 Planter Curb and Seatwall (Granite)

Scale: 1"=1'-0"



Planter Curb at Bluestone

FILE NAME = 01-Loke Street Streetscape Details.dwg

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PLOT SCALE =	CHECKED – KC, DS	REVISED – ·
PLOT DATE =	DATE – 11/15/2019	REVISED – ·

STATE OF ILLINOIS
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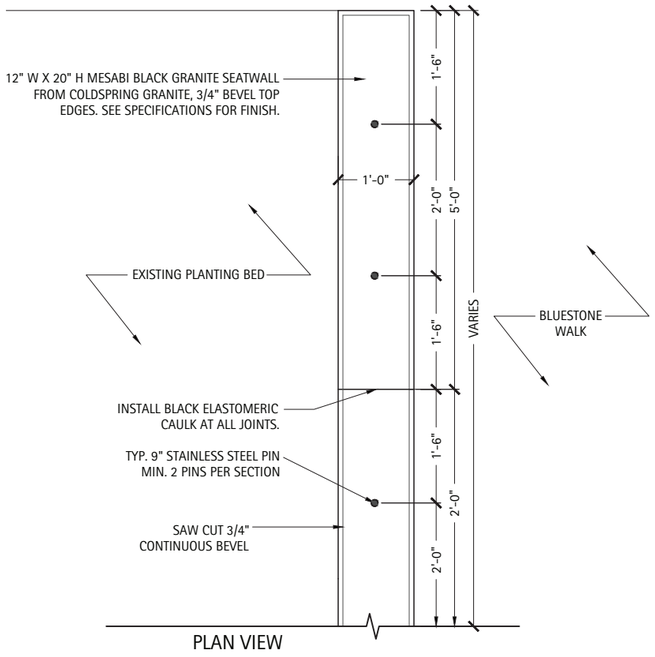
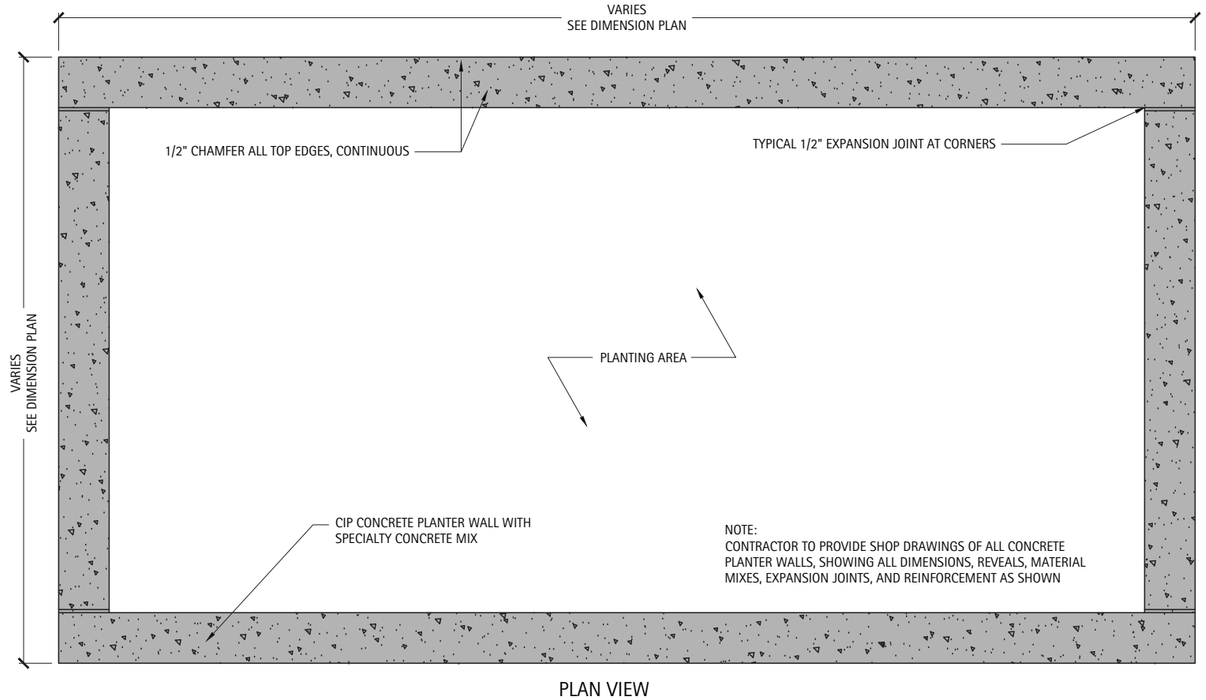
STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

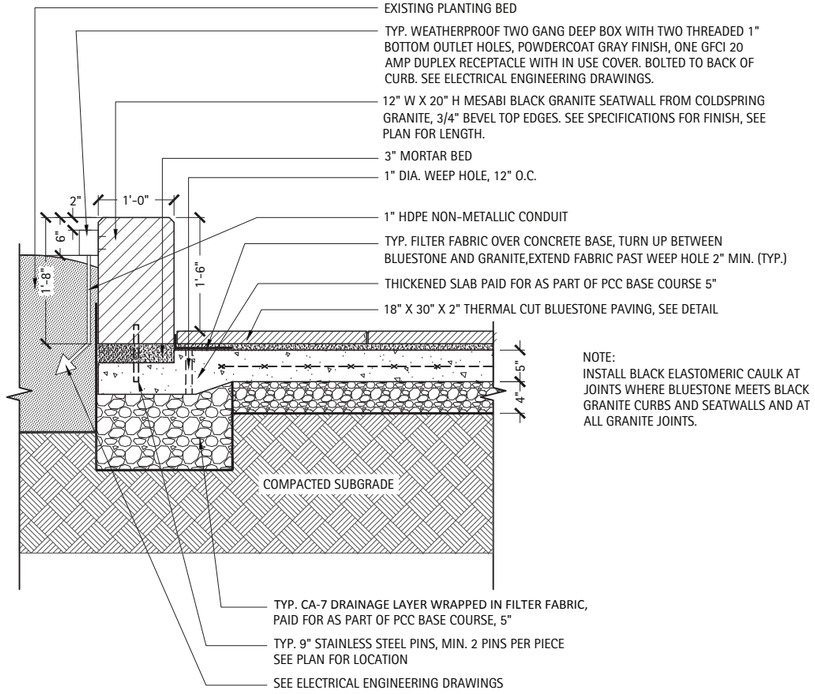
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	215
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			



PLAN VIEW

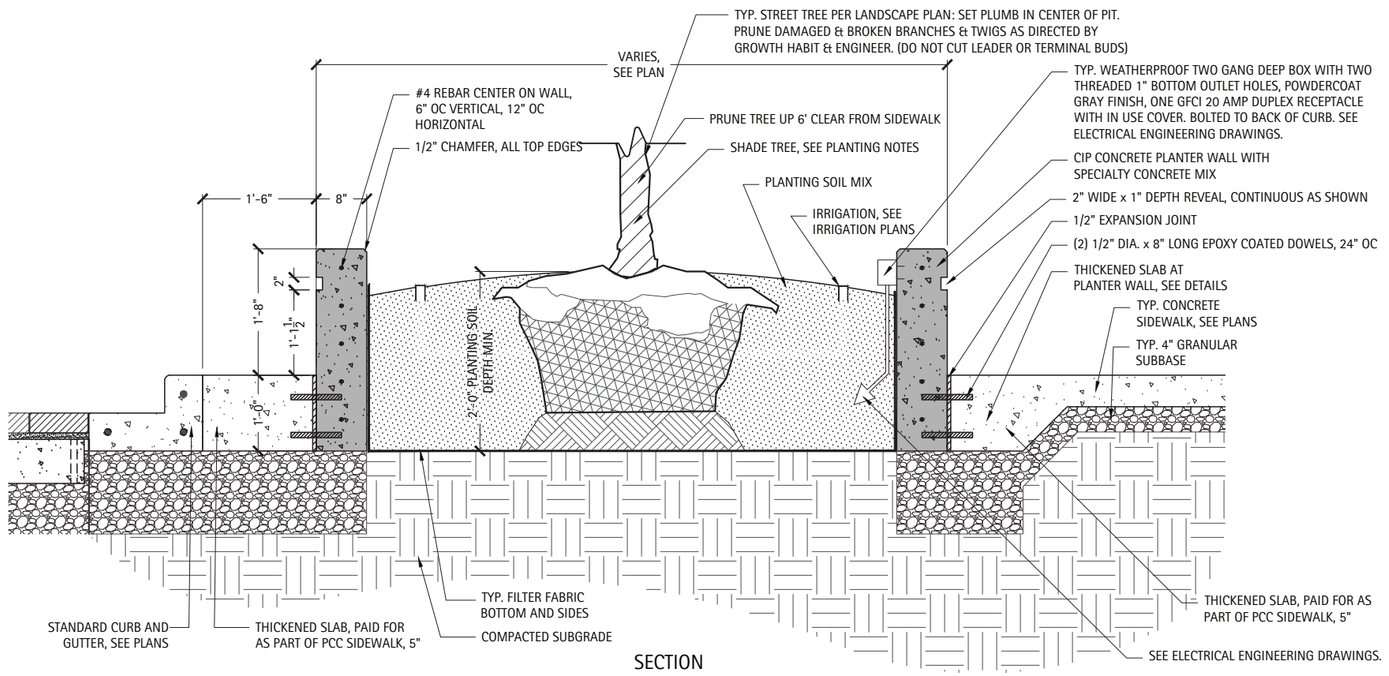


PLAN VIEW



1 Seatwall - 20" Height (Granite)

Scale: 1"=1'-0"



SECTION

2 Concrete Planter Wall

Scale: 1"=1'-0"

FILE NAME = 01-Lake Street Streetscape Details.dwg

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PLOT DATE =	DATE — 11/15/2019	REVISED — ·

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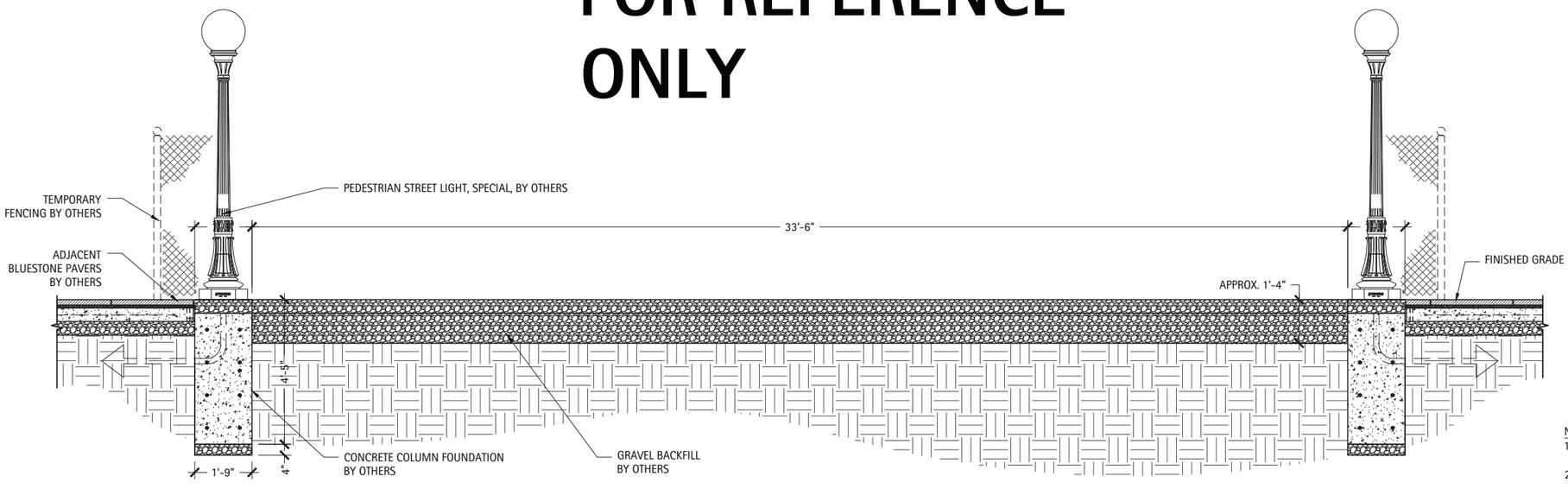
STREETSCAPE DETAILS

SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	216
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FOR REFERENCE ONLY



ELEVATION VIEW

NOTES
1. IN GROUND LED LIGHT AND (2) PEDESTRIAN LIGHTS PREVIOUSLY INSTALLED UNDER A SEPARATE CONTRACT.
2. (2) PEDESTRIAN STREET LIGHTS, SPECIAL TO BE REMOVED FROM CONCRETE COLUMN FOUNDATIONS AND REINSTALLED ON GRANITE COLUMNS.
3. TEMPORARY FENCING OR BARRICADES SHOWN IN THIS DETAIL TO BE REMOVED BY CONTRACTOR.
4. EXTRA GRAVEL BACKFILL SHOWN IN THIS DETAIL TO BE REMOVED DOWN TO EXISTING SUBGRADE BY CONTRACTOR.

1 Gateway Monument Sign Complete (Specialty Feature) Temporary Installation

Scale: 1/2"=1'-0"

FILE NAME = 01-Lake Street Streetscape Details.dwg

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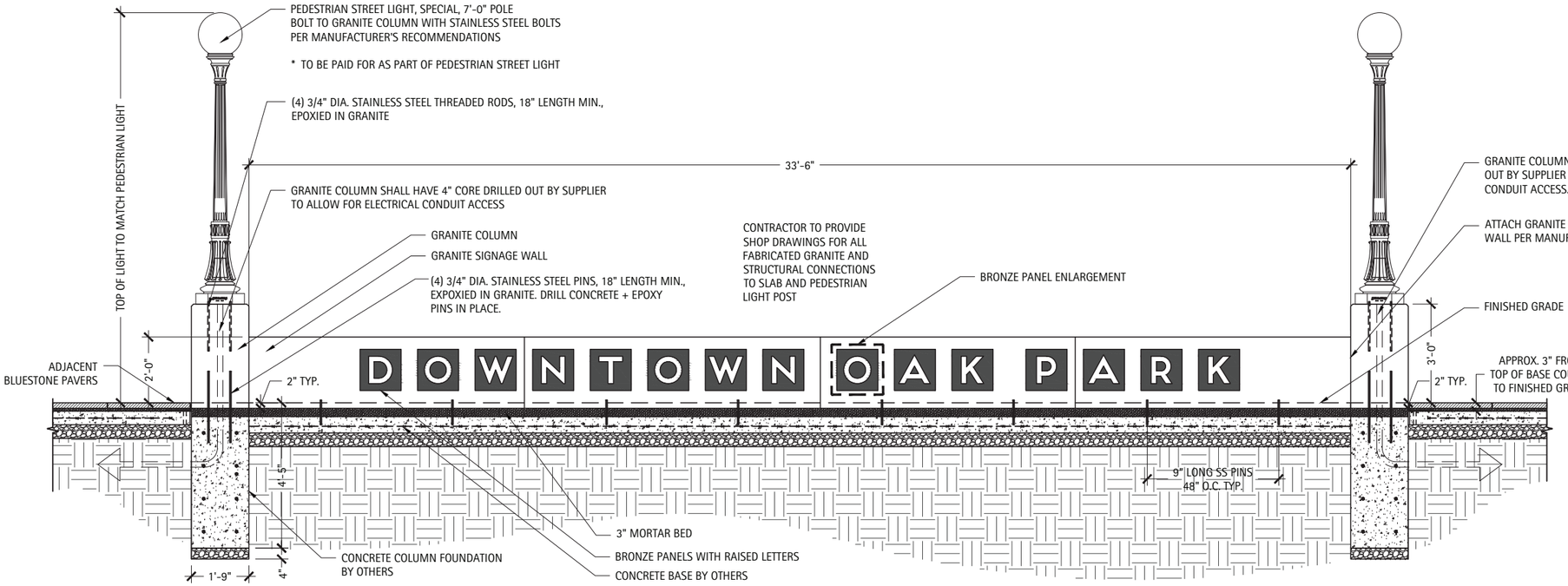
PLOT SCALE =	CHECKED – KC, DS	REVISED – ·
PLOT DATE =	DATE – 11/15/2019	REVISED – ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

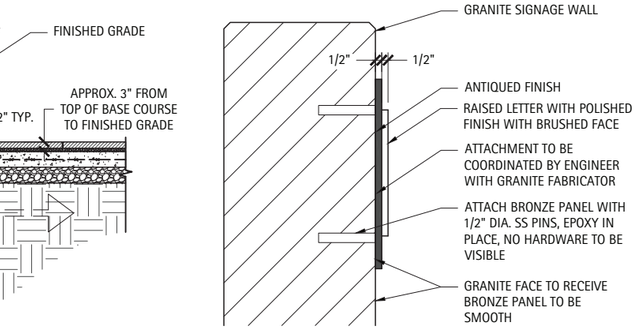
STREETSCAPE DETAILS

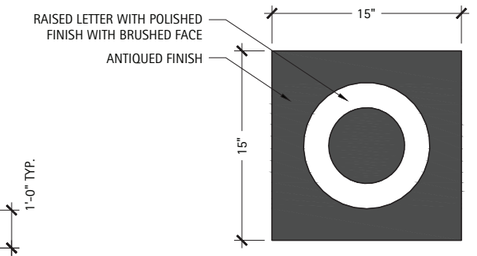
SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	217
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			



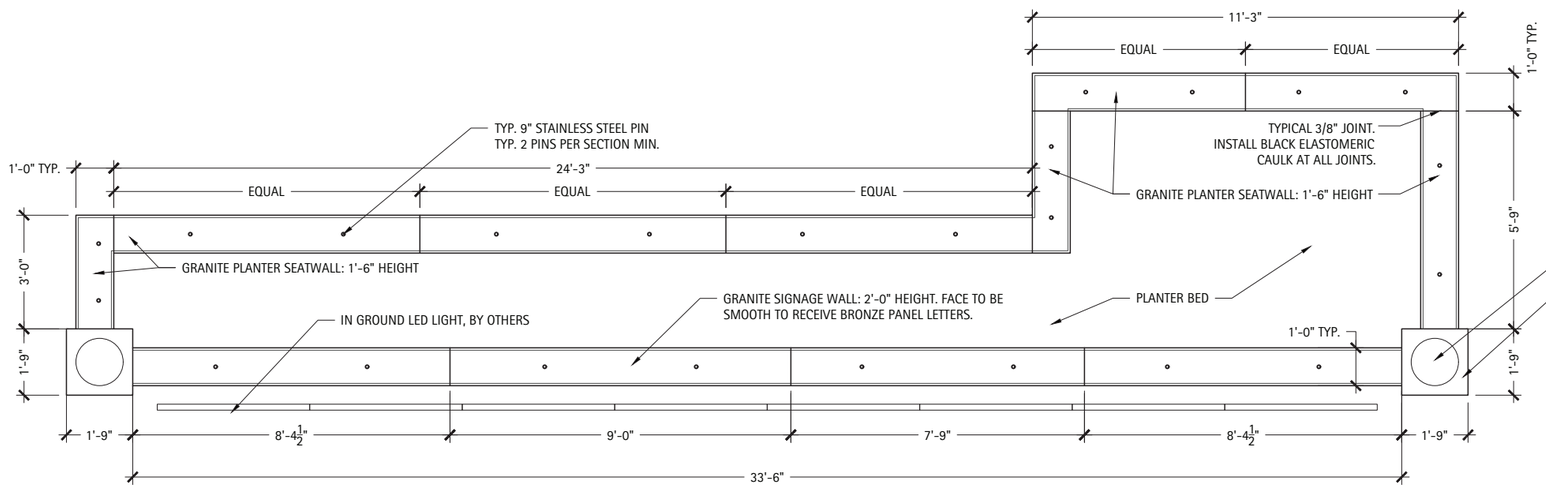
ELEVATION VIEW





NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL SIGN LETTERING / BRONZE PANELS.
2. LETTERING TO BE BASED ON CAD FILE LAYOUT, WHICH WILL BE PROVIDED TO CONTRACTOR.

Bronze Panel Enlargement



PLAN VIEW

NOTES:
1. INSTALL BLACK ELASTOMERIC CAULK AT JOINTS WHERE BLUESTONE MEETS BLACK GRANITE CURBS AND SEATWALLS AND AT ALL GRANITE JOINTS.
2. SEATWALL AND SIGNWALL SHALL BE INSTALLED PER "Seatwall - 20" Height (Granite)" DETAIL.
3. OVERALL FABRICATED HEIGHT OF SEATWALL TO BE 20" H, SIGNWALL TO BE 26" H, GRANITE COLUMNS TO BE 38" H. GRANITE PIECES TO BE INSTALLED 2" BELOW FINISH GRADE, TYP.
4. SEE SPECIFICATIONS FOR GRANITE FINISHES. SEE PLAN FOR GRANITE LENGTH.
5. CONTRACTOR TO COORDINATE GRANITE SIGNAGE WALL JOINTS AND BRONZE PANEL PLACEMENT FOR FIELD REVIEW BY THE ENGINEER.
6. IN GROUND LED LIGHT AND (2) PEDESTRIAN STREET LIGHTS, SPECIAL PREVIOUSLY INSTALLED UNDER A SEPARATE CONTRACT. SEE ELECTRICAL PLANS.
2. (2) PEDESTRIAN STREET LIGHTS, SPECIAL TO BE REMOVED FROM CONCRETE COLUMN FOUNDATIONS AND REINSTALLED ON GRANITE COLUMNS.

1 Gateway Monument Sign Complete (Specialty Feature)

Scale: 1/2"=1'-0"

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PLOT DATE =	DATE — 11/15/2019	REVISED — ·

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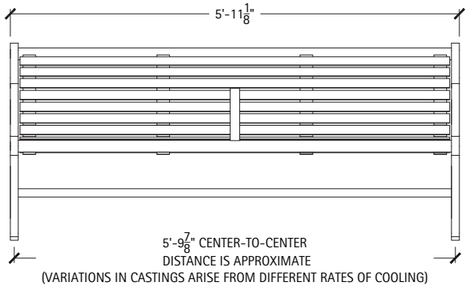
STREETSCAPE DETAILS

SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	218
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

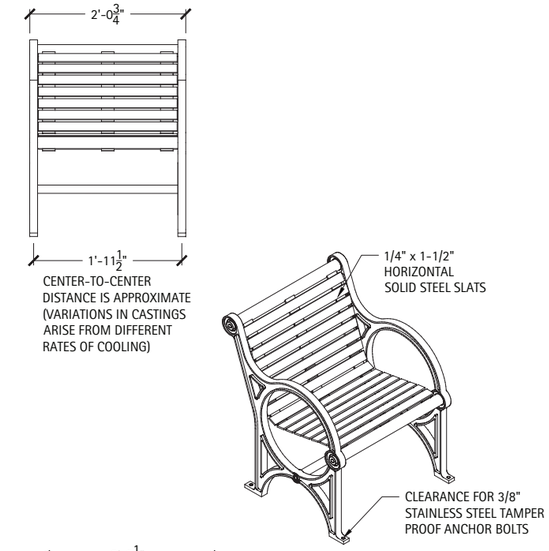
FILE NAME = 01-Lake Street Streetscape Details.dwg



6' LENGTH BENCH
BY VICTOR STANLEY
MODEL CBF-12
CITY SITES SERIES
COLOR: BLACK
WITH INTERMEDIATE ARMREST

PRE-DRILL HOLES FOR ANCHOR BOLTS IN
BLUESTONE PRIOR TO INSTALLATION

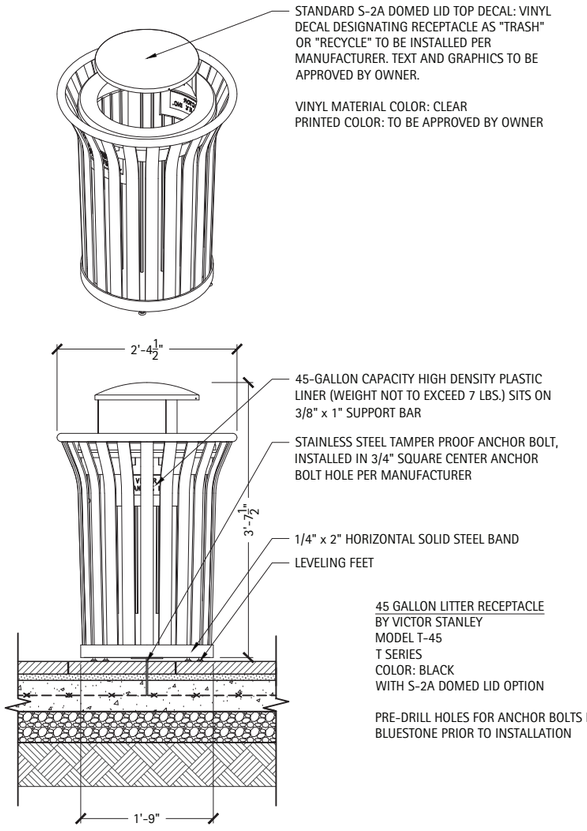
1 Bench 6'
Scale: 1" = 1'-0"



2' LENGTH BENCH
BY VICTOR STANLEY
MODEL CBF-12 SPECIAL
CITY SITES SERIES
COLOR: BLACK

PRE-DRILL HOLES FOR ANCHOR BOLTS IN
BLUESTONE PRIOR TO INSTALLATION

2 Benches (2' Metal Bench)
Scale: 1" = 1'-0"



45 GALLON LITTER RECEPTACLE
BY VICTOR STANLEY
MODEL T-45
T SERIES
COLOR: BLACK
WITH S-2A DOMED LID OPTION

PRE-DRILL HOLES FOR ANCHOR BOLTS IN
BLUESTONE PRIOR TO INSTALLATION

3 Trash & Recycling Receptacle
Scale: 1" = 1'-0"

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PLOT DATE =	DATE – 11/15/2019	REVISED – ·

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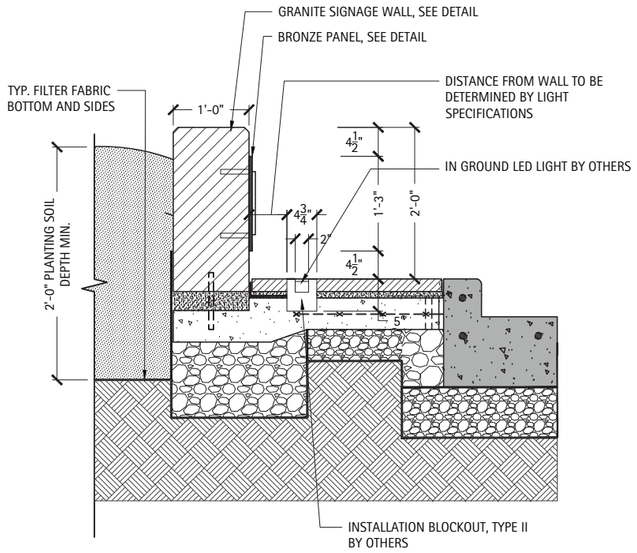
STREETSCAPE DETAILS

SCALE: · | SHEET · OF · SHEETS | STA. · | TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	219
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Streetscape Details.dwg



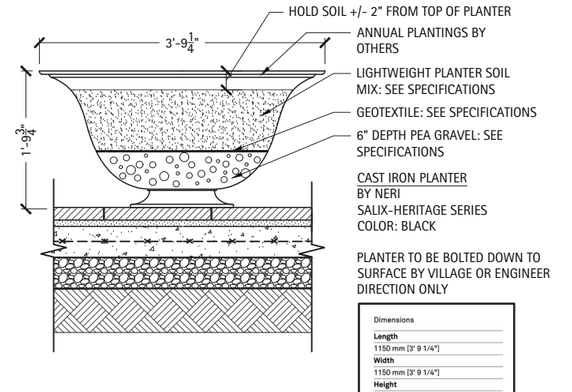
IN GROUND LED LIGHT: FOR REFERENCE
BY WE-EF
MODEL: ETV140
PART ID: 612-4020

Beam Type	linear asymmetric, wallwash [LA10]
Lamp Type	LED-240/30W - 3000 K
CRI	80
Gear Type	electronic gear
Nominal Luminous Flux (lm)	
LED Lumens	1618 lm
LEDs	240
Total Lumens	4500 lm
Tj	25 °C
Rated Luminous Flux (lm)	
LED Lumens	11.2 lm
Total Lumens	2688.6 lm
Ta	25 °C
Rated Input Power	36 W

INSTALLATION BLOCKOUT, TYPE II: FOR REFERENCE
BY WE-EF
PART ID: 612-9342
BEV140-II-2/1227 (HOLDS 2 LUMINAIRES)

NOTES:
1. IN GROUND LED LIGHT PREVIOUSLY INSTALLED UNDER A SEPARATE CONTRACT. PROTECT DURING CONSTRUCTION. SPECIFICATIONS INCLUDED FOR REFERENCE.
2. INSTALL BLACK ELASTOMERIC CAULK AT JOINTS WHERE BLUESTONE MEETS BLACK GRANITE.
3. INSTALL ELASTOMERIC CAULK AT JOINT WHERE IN GROUND LED LIGHT MEETS BLUESTONE. COLOR TO MATCH LED LIGHT FIXTURE SURROUND.

1 In Ground LED Light at Gateway Monument Sign (Section)
Scale: 1"=1'-0"

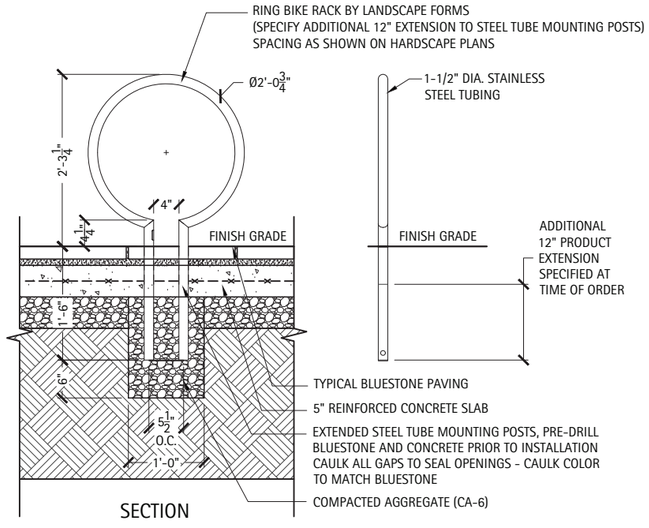


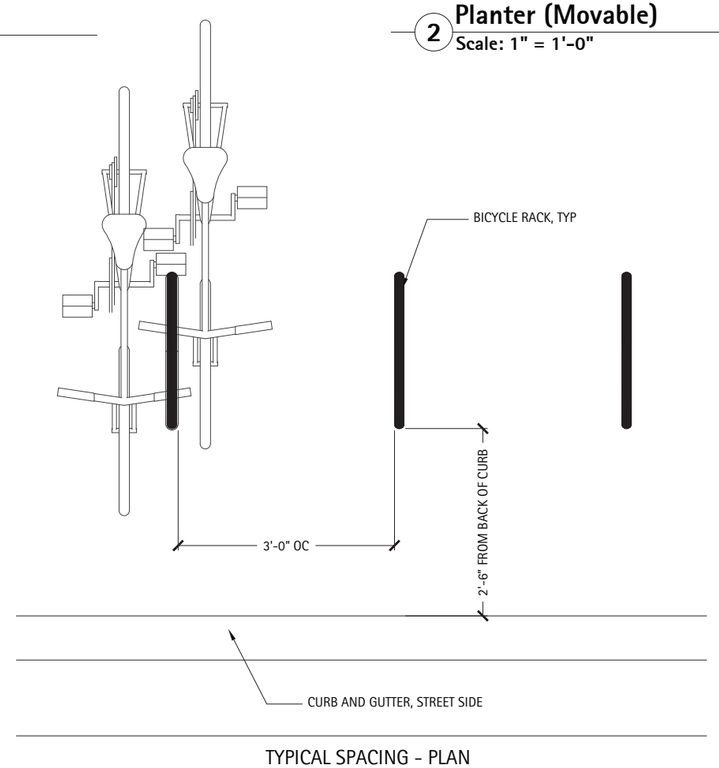
CAST IRON PLANTER
BY NERI
SALIX-HERITAGE SERIES
COLOR: BLACK

PLANTER TO BE BOLTED DOWN TO SURFACE BY VILLAGE OR ENGINEER DIRECTION ONLY

Dimensions
Length
1150 mm [3' 9 1/4"]
Width
1150 mm [3' 9 1/4"]
Height
550 mm [1' 9 3/4"]
Capacity
200 l [52.83 gal]
Weight
151 kg [332.9 lb]

2 Planter (Movable)
Scale: 1" = 1'-0"





3 Bicycle Rack
Scale: 1"=1'-0"

FILE NAME = 01-Lake Street Streetscape Details.dwg

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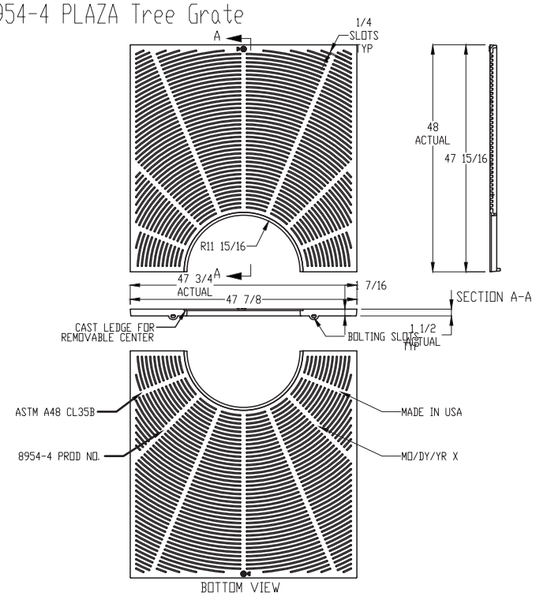
STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	220
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

8954-4 PLAZA Tree Grate



Product Number
00895484

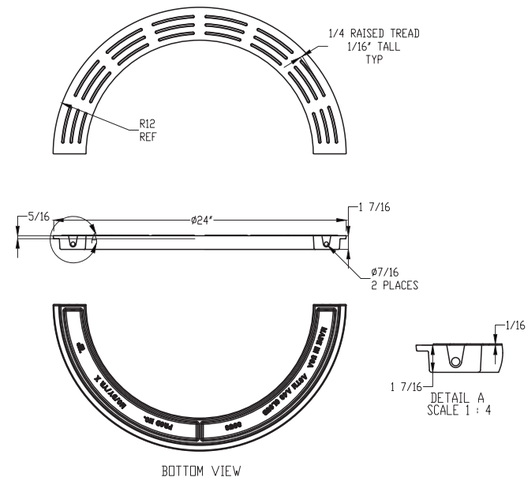
Design Features
-Materials
Gray Iron (CL35B)
-Design Load
Non-Traffic
-Open Area
466 sq. inches
-Coating
Dipped
-√ Designates Machined Surface

Drawing Revision
6/2/2014 Designer: DEF
5/4/2017 Revised By: DEF

Contact
800 626 4653
ej.jco.com

1 Tree Grate Assembly
NTS

PLAZA Tree Grate Removable Center



Product Number
00895370

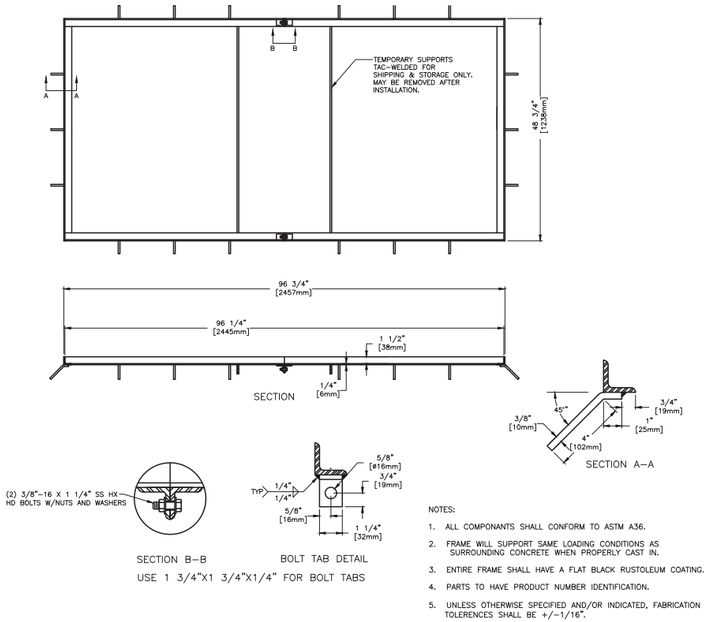
Design Features
-Materials
Gray Iron (CL35B)
-Design Load
Non-Traffic
-Open Area
n/a
-Coating
Dipped
-√ Designates Machined Surface

Drawing Revision
05/24/2013 Designer: DEF
12/12/2013 Revised By: DEF

Contact
800 626 4653
ej.jco.com

3 Tree Grate Assembly - Removable Center
NTS

48 x 96 Steel Tree Grate Frame



Product Number
00869410

Design Features
-Materials
ASTM A36 Steel
-Design Load
Non-Traffic
-Open Area
n/a
-Coating
Paint
-√Designates Machined Surface

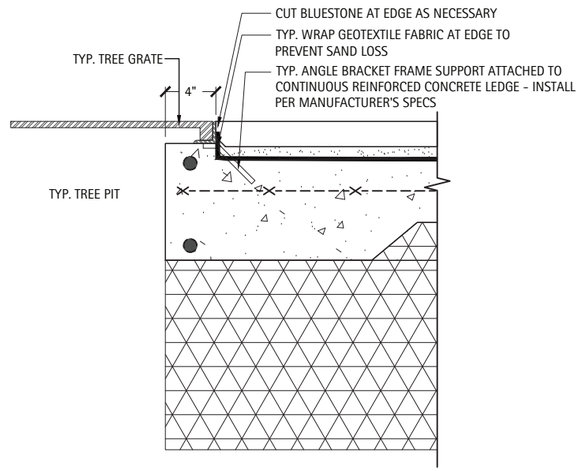
Certification
-
- Steel A36
-
-Country of Origin: USA

Drawing Revision
05/07/2003 Designer: JJJ
Revised By: MAH

NOTES:
1. ALL COMPONANTS SHALL CONFORM TO ASTM A36.
2. FRAME WILL SUPPORT SAME LOADING CONDITIONS AS SURROUNDING CONCRETE WHEN PROPERLY CAST IN.
3. ENTIRE FRAME SHALL HAVE A FLAT BLACK RUSTOLEUM COATING.
4. PARTS TO HAVE PRODUCT NUMBER IDENTIFICATION.
5. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED, FABRICATION TOLERENCES SHALL BE +/-1/16".

Contact
800 626 4653
ejco.com

2 Tree Grate Assembly - Frame
NTS



4 Typical Tree Grate Edge
Scale: 1"=0'-6"

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USER NAME =	DESIGNED — ·	REVISED — ·
	DRAWN — DV, MH, JS	REVISED — ·
PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
PLOT DATE =	DATE — 11/15/2019	REVISED — ·

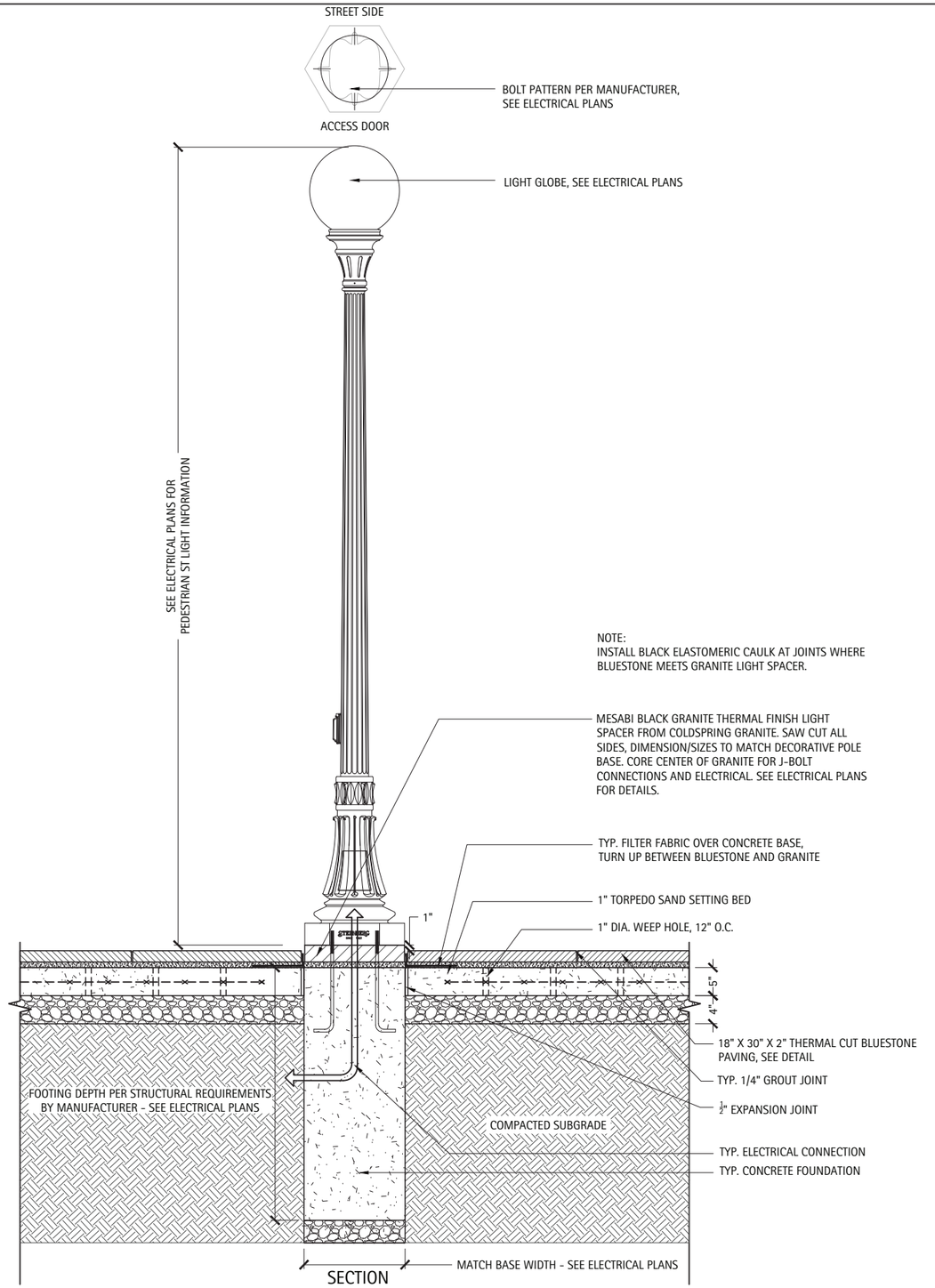
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

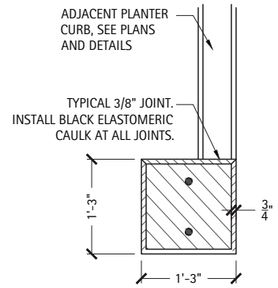
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	221
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Streetscape Details.dwg

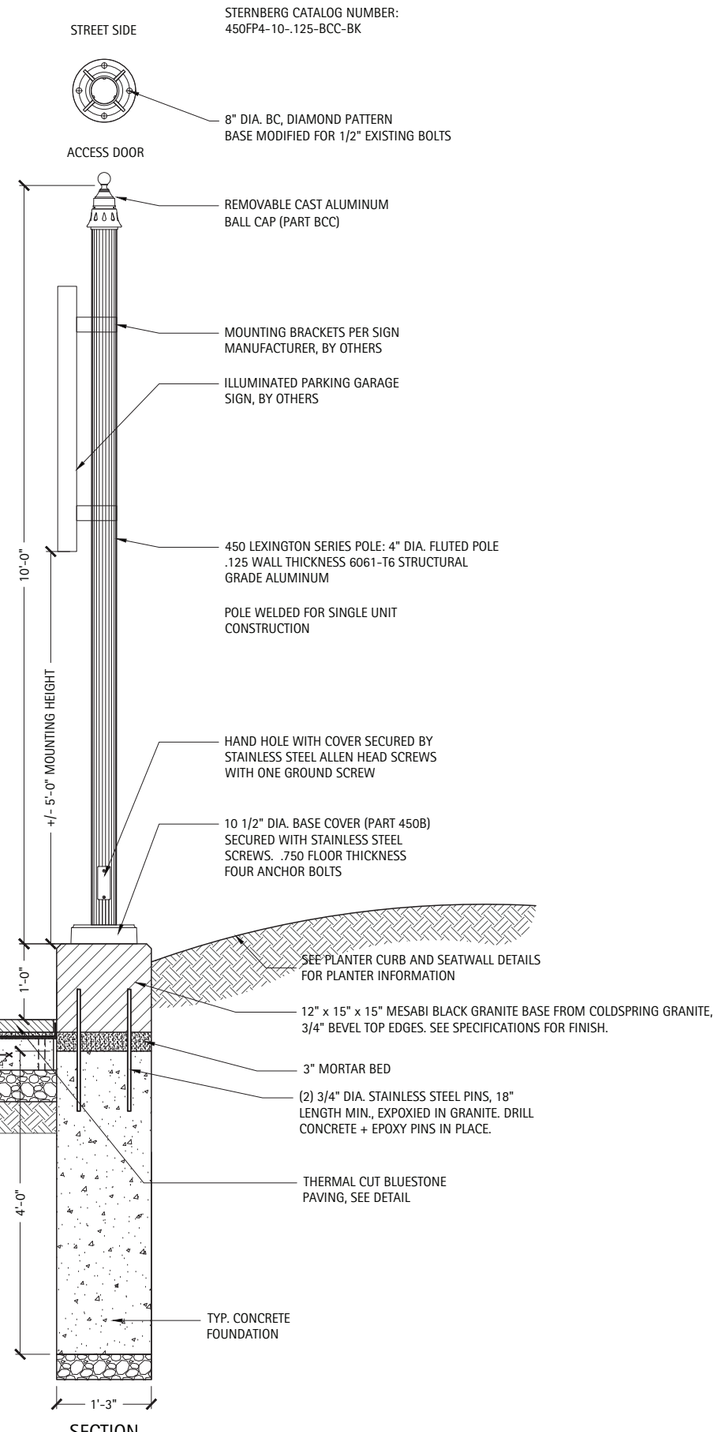


1 Pedestrian St Light at Bluestone (10' Pole)

Scale: 1"=1'0"



NOTE:
INSTALL BLACK ELASTOMERIC CAULK AT JOINTS WHERE BLUESTONE MEETS GRANITE BASE.



2 Ornamental Sign Post

Scale: 1"=1'-0"

FILE NAME = 01-Lake Street Streetscape Details.dwg

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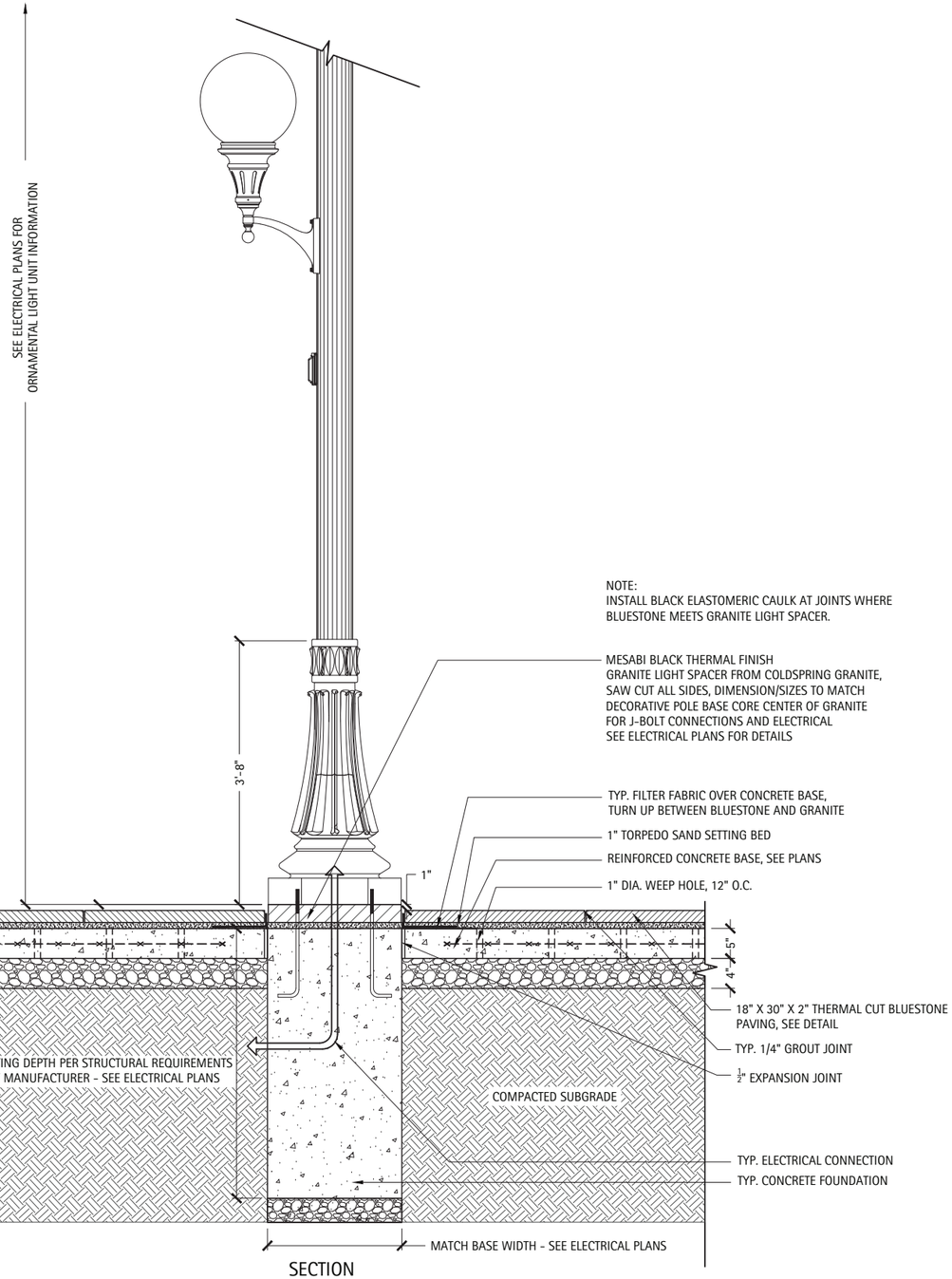
	DRAWN — DV, MH, JS	REVISED — ·
PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
PLOT DATE =	DATE — 11/15/2019	REVISED — ·

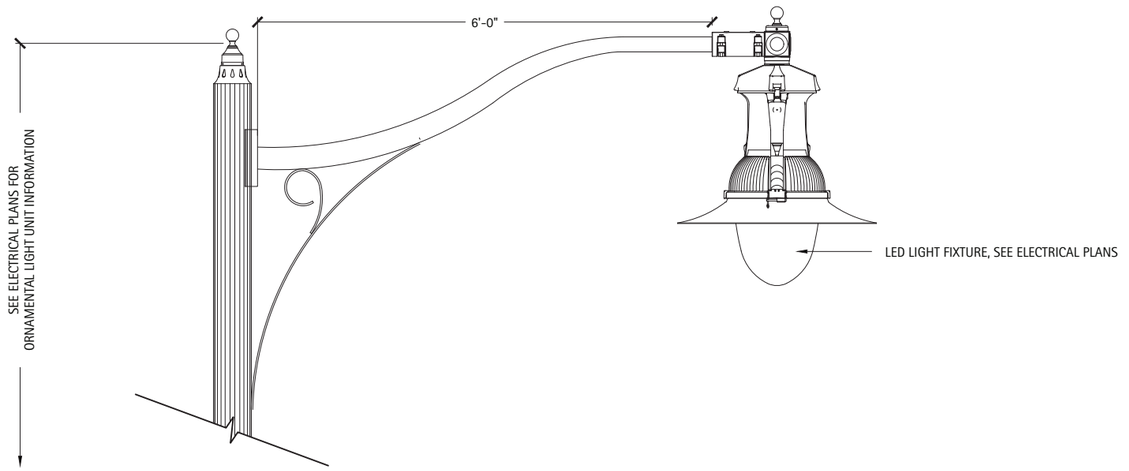
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

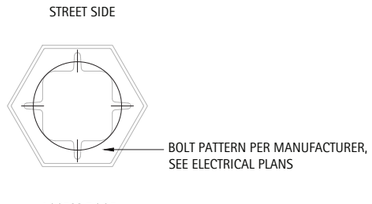
STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	222
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			







1 Ornamental Light Unit at Bluestone

Scale: 1"=1'0"

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	DRAWN — DV, MH, JS	REVISED — ·
PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
PLOT DATE =	DATE — 11/15/2019	REVISED — ·

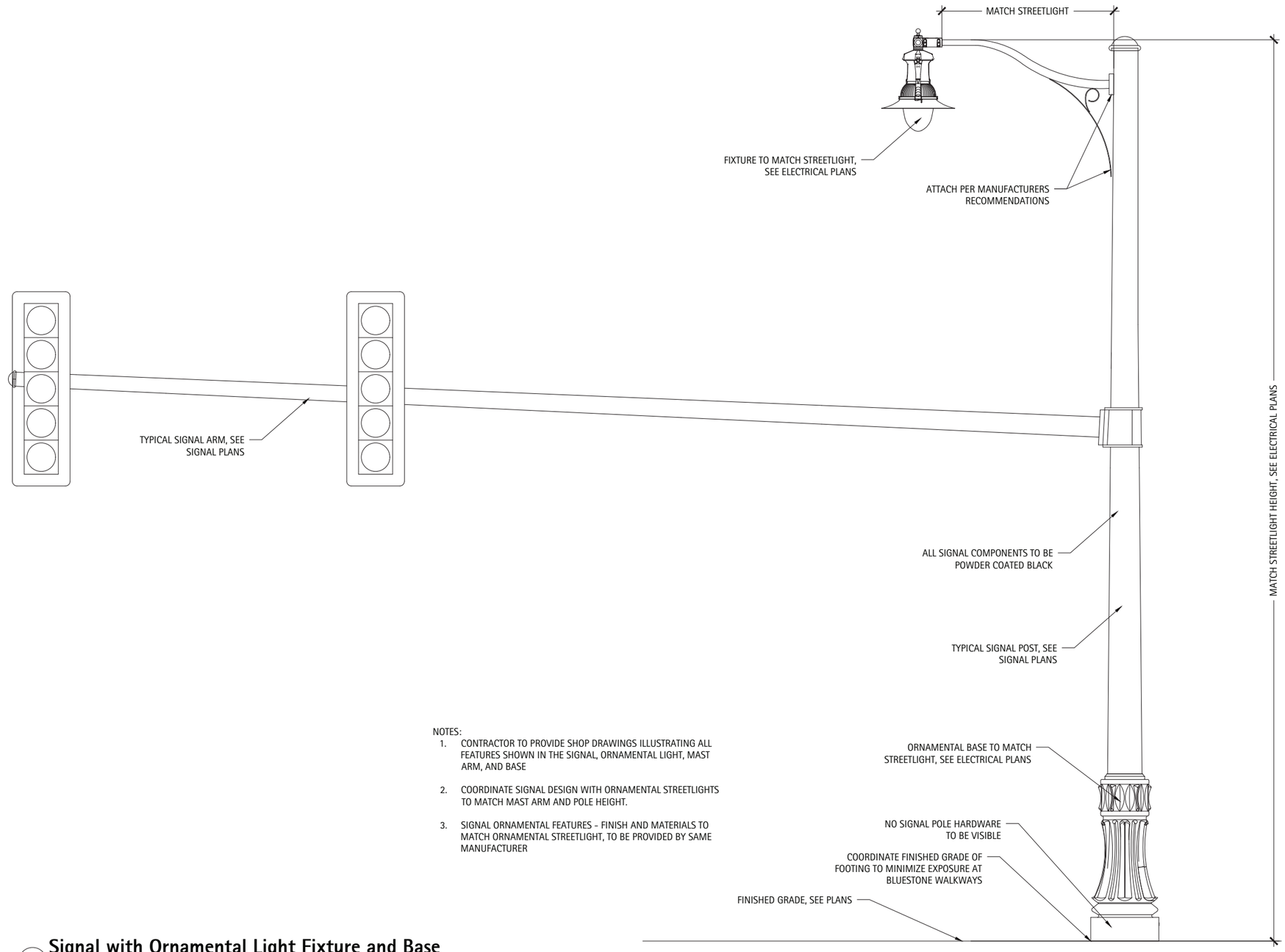
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	223
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Streetscape Details.dwg



NOTES:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS ILLUSTRATING ALL FEATURES SHOWN IN THE SIGNAL, ORNAMENTAL LIGHT, MAST ARM, AND BASE
2. COORDINATE SIGNAL DESIGN WITH ORNAMENTAL STREETLIGHTS TO MATCH MAST ARM AND POLE HEIGHT.
3. SIGNAL ORNAMENTAL FEATURES - FINISH AND MATERIALS TO MATCH ORNAMENTAL STREETLIGHT, TO BE PROVIDED BY SAME MANUFACTURER

1 Signal with Ornamental Light Fixture and Base

Scale: 1/2"=1'-0"

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	DRAWN — DV, MH, JS	REVISED — ·
PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
PLOT DATE =	DATE — 11/15/2019	REVISED — ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	224
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Loke Street Streetscape Details.dwg

1 General Planting Notes

GENERAL CONDITIONS

1. Contractor shall familiarize themselves with all landscape plans, details specifications prior to commencement of work. Any questions or concerns shall be directed to the Engineer in writing prior to landscape work commencement.
2. The Contractor shall keep all areas clean and orderly at all times.
3. The Contractor shall keep all roadways and walkways clear of mud and debris that result from landscape operations.

PLANTING BED GRADING & BERMING

4. Berming or planter bed mounding shall occur along all noted landscape areas to the designed berming/ bed mounding heights shown on the plans. All grading, drainage, and utilities shall be evaluated in the field for conflict points with designed berming. Engineer shall review and approve prior to finished grading. Finished shape and contouring shall be at the Engineer's direction.

SOIL & PLANTING MIX

5. See Special Provisions for Soil and Planting Mix information

PLANTER SOIL MIX

6. For all grade level planters. Topsoil/planter mix shall follow the same soil planting mix as noted above with the exception that as per these details, dimensions and specifications. Structural soil mix shall be installed in the defined hardscape planting limits as noted in these drawings and details.

DECIDUOUS TREE PLANTING NOTES

7. All pruning must be done after planting, and at the direction of the Engineer or city/ village forester. Root collar shall be set so that after soil settles, the top of the ball shall be at the same elevation as finished grade.
8. Final ball elevation and planter bed grading as directed by Engineer. When soil conditions are encountered with poor drainage, Contractor shall notify Engineer. Contractor shall elaborate and prepare recommendations for solution to problem.
9. Provide drainage detail where necessary as dictated by site conditions. Connect to storm system as per Engineer's grading and drainage plans.
10. Village Forester reserves the right to select, inspect, and tag all trees at the sources determined by the contractor.
11. Non spring dug species shall be tagged by the Village Forester while still in ground for installation in the fall.

PLANTING STANDARDS

12. All plant material shall be top-quality grade, free of defects, and meet accepted horticultural standards established by the American Nurserymen's Association (AAN) and as deemed appropriate by the Engineer. The Engineer shall have the right to reject any, and all, plant material delivered to the site that does not meet acceptable standards.
13. Sizes shown on plant schedule are minimum acceptable sizes.
14. All plants to be balled-in-burlap or container-grown as specified in plant schedule. All plastic root wrapping material and metal wire baskets shall be removed.
15. All new and transplanted plants to be sprayed with an antidessecant within twenty-four (24) hours after planting. Antitranspirant shall be "Wiltpruf" or an approved equal.
16. The Engineer shall field verify and approve all final staked tree, shrub, and perennial bed locations prior to installation.
17. The Contractor shall repair to its original condition any plant material which becomes damaged as a result of landscape operations.
18. All perennials shall be planted at least two (2) feet from the tree trunks planted within planting areas.
19. The Engineer shall approve all plant materials for quality, condition and specified sizes. Plant material shall be approved at nursery location, during tagging or before removal and transport to job site. Shrubs, perennials and groundcovers shall be approved at job site prior to installation.

MAINTENANCE & WARRANTIES

20. See Special Provisions for Maintenance and Warranty information

2 General Notes

1. Contractor shall verify all utility locations (existing and proposed) along with existing paving conditions and grades (existing and proposed), and note any discrepancies to owner and Engineer immediately, before proceeding with any work.
2. Base information for these plans was taken from Engineer's site survey, geometric, and grading plans. Contractor shall verify all dimensions and locations of existing and proposed features, and familiarize themselves with any obstacles encumbering the installation of this project.
3. Any existing tree surveys or locations for these plans were prepared by the Engineer or a certified arborist. See plans for information.
4. All soil/underground conditions shall be referred to soil testing reports prepared by the owner's consultant.
5. Any archeological information relevant to these plans shall be referred to archeological survey and reports (if appropriate to job site) by the owner's engineering consultant.
6. See Civil Engineering plans for all grading, drainage, and underground utilities work as noted.
7. See Electrical Engineering plans for all light locations and utilities.

3 Planting Schedule

SYMBOL	QTY.	BOTANIC NAME	COMMON NAME	SIZE	SPACING
DECIDUOUS TREES					
AM 3	6	Acer miyabei 'Morton' State Street	Miyabe Maple	3" caliper B&B	As shown
CB 3	5	Carpinus betulus 'Fastigiata'	Columnar European Hornbean	3" caliper B&B	As shown
GB 3	6	Ginkgo biloba	Ginkgo (Male)	3" caliper B&B	As shown
GT 3	5	Gleditsia triancanthos inermis 'Skyline'	Skyline Thornless Honeylocust	3" caliper B&B	As shown
GD 3	4	Gymnocladus dioica	Kentucky Coffee Tree	3" caliper B&B	As shown
PT 3	6	Platanus x acerifolia 'Morton Circle'	Exclamation! London Plane Tree	2.5" caliper B&B	As shown
QB 3	8	Quercus bicolor	Swamp White Oak	3" caliper B&B	As shown
UAA3	8	Ulmus 'Morton'	Accolade Elm	3" caliper B&B	As shown
DECIDUOUS SHRUBS					
HQ	13	Hydrangea quercifolia	Oakleaf Hydrangea	2' ht./CG	As shown
EVERGREEN SHRUBS					
BM	234	Buxus microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	2' ht./CG	As shown
PERENNIALS, ORNAMENTAL GRASSES					
asb	19	Allium 'Summer Beauty'	Summer Beauty Allium	1 gal./CG	12" o.c. spacing
acp	12	Astilbe chinensis var. pumila	Pumila Chinese Astilbe	1 gal./CG	12" o.c. spacing
cas	79	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	3 gal./CG	24" o.c. spacing
hc	19	Heuchera 'Citronella'	Citronella Coral Bells	1 gal./CG	12" o.c. spacing
hh	50	Hosta 'Halcyon"	Halcyon Hosta	1 gal./CG	12" o.c. spacing
snr	42	Salvia nemorosa 'Rosenwein'	Rose Wine Salvia	1 gal./CG	12" o.c. spacing
sam	68	Sesleria Autumnalis	Autumn Moor Grass	1 gal./CG	12" o.c. spacing
sh	72	Stachys officinalis 'Hummelo'	Alpine Betony	1 gal./CG	12" o.c. spacing
GROUNDCOVERS					
lsp	214	Liriope spicata	Lilyturf	quart/CG	9" o.c. spacing
BULBS					
ad	41	Allium sphaerocephalon	Allium Drumstick	bulb	18" o.c. spacing
an	54	Allium nigrum	Ornamental Onion	bulb	18" o.c. spacing
ap	31	Allium hollandicum	Allium Purple Sensation	bulb	18" o.c. spacing
nt	168	Narcissus mix	Daffodil Spring Mix	bulb	18" o.c. spacing

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PLOT SCALE =	CHECKED — KC, DS	REVISED — ·
PLOT DATE =	DATE — 11/15/2019	REVISED — ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

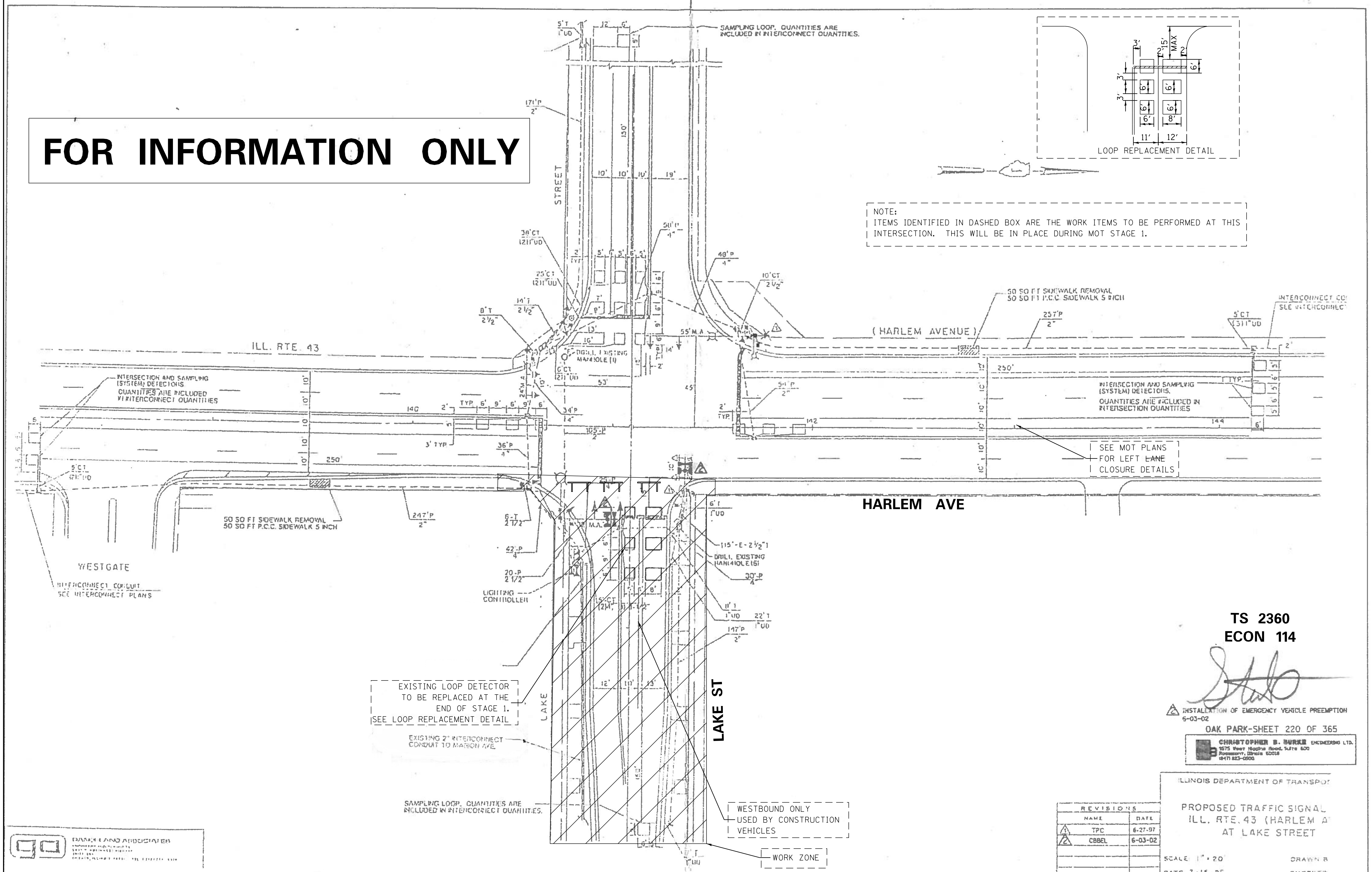
STREETSCAPE GENERAL NOTES & PLANTING SCHEDULE

SCALE: · SHEET · OF · SHEETS STA. · TO STA. ·

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	225
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

FILE NAME = 01-Lake Street Streetscape Details.dwg

FOR INFORMATION ONLY


SAMPLING LOOP. QUANTITIES ARE INCLUDED IN INTERCONNECT QUANTITIES.
LOOP REPLACEMENT DETAIL
NOTE:
ITEMS IDENTIFIED IN DASHED BOX ARE THE WORK ITEMS TO BE PERFORMED AT THIS INTERSECTION. THIS WILL BE IN PLACE DURING MOT STAGE 1.
ILL. RTE. 43
(HARLEM AVENUE)
50 SQ FT SIDEWALK REMOVAL
50 SQ FT P.C.C. SIDEWALK 5 INCH
INTERSECTION AND SAMPLING (SYSTEM) DETECTIONS
QUANTITIES ARE INCLUDED IN INTERCONNECT QUANTITIES
QUANTITIES ARE INCLUDED IN INTERSECTION QUANTITIES
SEE MOT PLANS FOR LEFT LANE CLOSURE DETAILS
HARLEM AVE
WESTGATE
INTERCONNECT CONDUIT SEE INTERCONNECT PLANS
LIGHTING CONTROLLER
DRILL EXISTING MANHOLE
EXISTING LOOP DETECTOR TO BE REPLACED AT THE END OF STAGE 1. SEE LOOP REPLACEMENT DETAIL
EXISTING 2" INTERCONNECT CONDUIT TO MARION AVE.
SAMPLING LOOP. QUANTITIES ARE INCLUDED IN INTERCONNECT QUANTITIES.
LAKE ST
WESTBOUND ONLY USED BY CONSTRUCTION VEHICLES
WORK ZONE
STREET
LAKE
TS 2360
ECON 114
INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 6-03-02
OAK PARK-SHEET 220 OF 365
CHRISTOPHER B. BURKE ENGINEERING LTD.
ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TRAFFIC SIGNAL
ILL. RTE. 43 (HARLEM AVE)
AT LAKE STREET
REVISIONS
TPC 6-27-97
CBBEL 6-03-02
SCALE 1" = 20'

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = GGedemer	DESIGNED - SA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - GKM	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -	
	PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION
LAKE STREET AND HARLEM AVENUE (MOT STAGE 1)

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	226

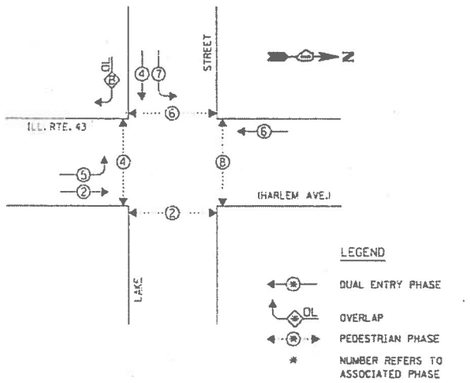
CONTRACT NO.

ILLINOIS FED. AID PROJECT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	00-00037-00-TL	COOK	365	221
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OAK PARK

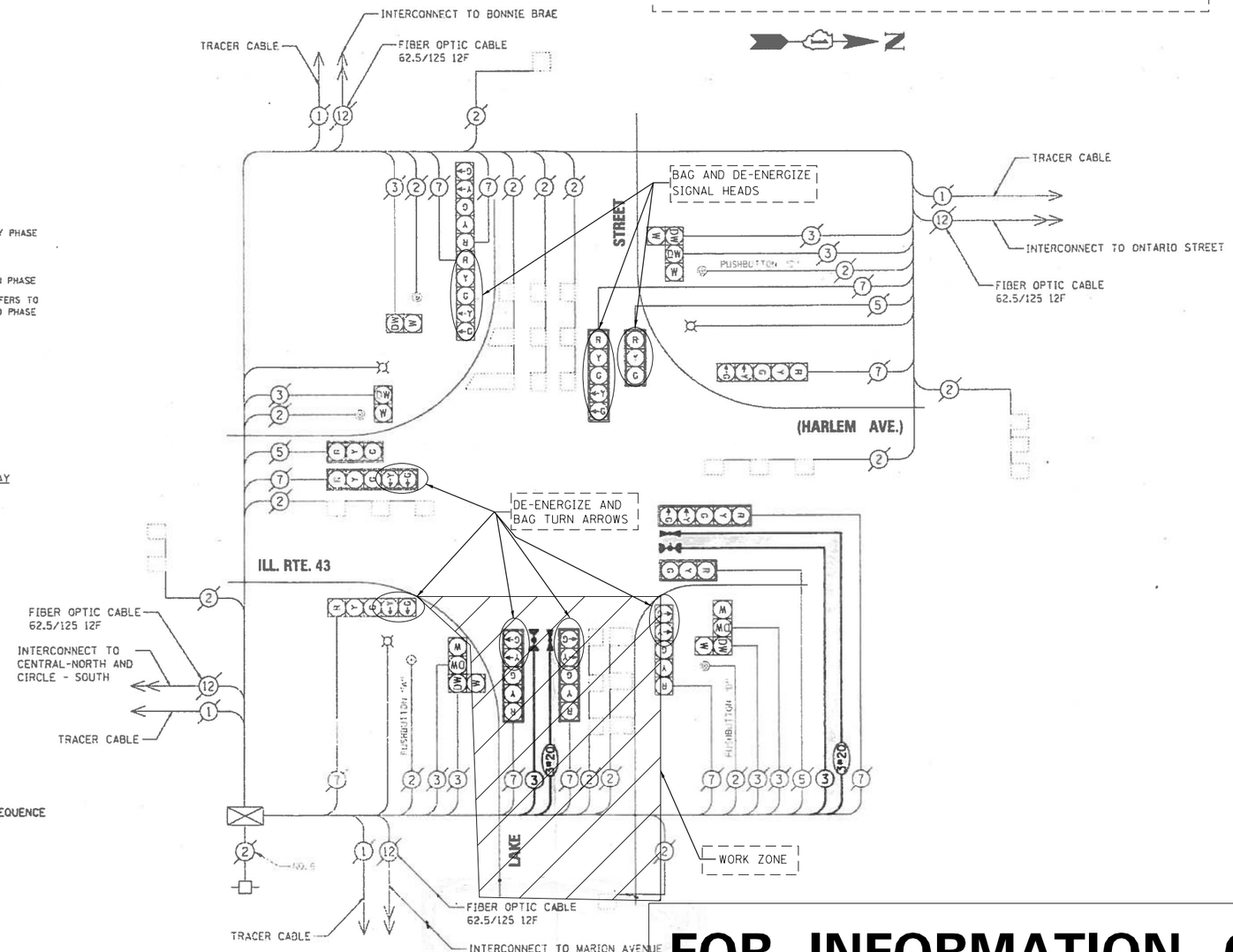
CONTROLLER SEQUENCE



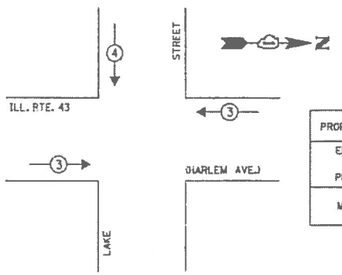
EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP FILTER		PERMISSIVE PHASE		PROTECTED PHASE		DISPLAY
B	=	4	+	5	-	4

NOTE:
ITEMS IDENTIFIED IN DASHED BOX ARE THE WORK ITEMS TO BE PERFORMED AT THIS INTERSECTION. THIS WILL BE IN PLACE DURING MOT STAGE 1.



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	→ ↓

NOTES:
PUSHBUTTON 'A' SHALL PLACE A CALL IN PHASES 2 AND 4.
PUSHBUTTON 'C' SHALL PLACE A CALL IN PHASES 6 AND 8.
PUSHBUTTON 'D' SHALL PLACE A CALL IN PHASES 2 AND 8.

ITEM	DESCRIPTION	UNITS	TOTAL QTY.
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
88600600	DETECTOR LOOP REPLACEMENT	FOOT	156
89502376	REBUILD EXISTING HANDHOLE	EACH	3
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X8900100	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1

FOR INFORMATION ONLY

TS 2360
ECON 114

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM

ILL. RTE. 43 (HARLEM AVE.) AND LAKE STREET
OAK PARK, ILLINOIS

SCALE: N.T.S.
DATE: 6-03-02
DRAWN BY: FPB
DESIGNED BY: SJP
CHECKED BY: GMZ

FILE NAME = 00a_Harlem_cable_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
LAKE STREET AND HARLEM AVENUE (MOT STAGE 1)

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	227
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

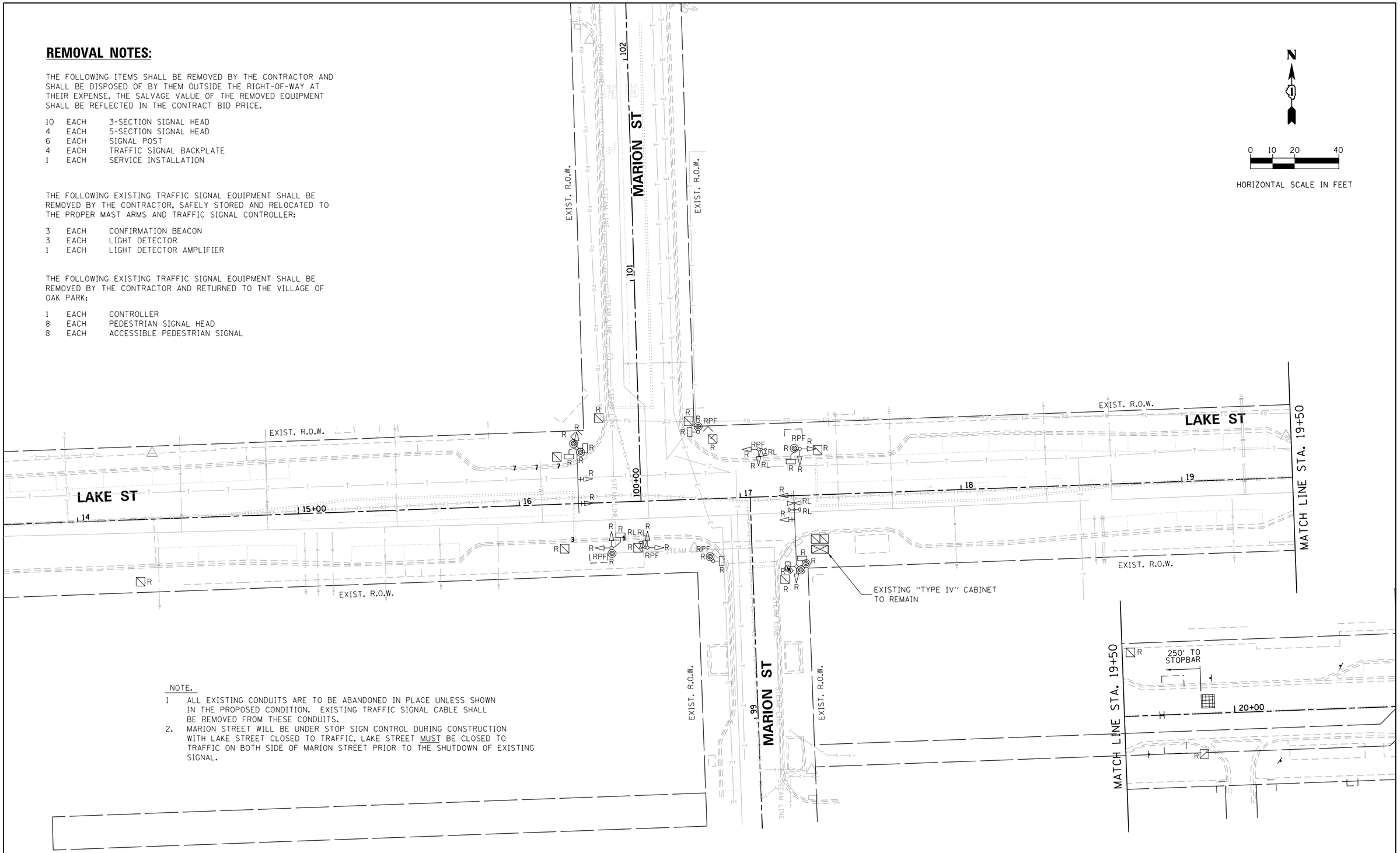
10	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
6	EACH	SIGNAL POST
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPER MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:

1	EACH	CONTROLLER
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	ACCESSIBLE PEDESTRIAN SIGNAL



NOTE.

1. ALL EXISTING CONDUITS ARE TO BE ABANDONED IN PLACE UNLESS SHOWN IN THE PROPOSED CONDITION. EXISTING TRAFFIC SIGNAL CABLE SHALL BE REMOVED FROM THESE CONDUITS.
2. MARION STREET WILL BE UNDER STOP SIGN CONTROL DURING CONSTRUCTION WITH LAKE STREET CLOSED TO TRAFFIC. LAKE STREET MUST BE CLOSED TO TRAFFIC ON BOTH SIDE OF MARION STREET PRIOR TO THE SHUTDOWN OF EXISTING SIGNAL.

FILE NAME = 01_Marion_ts_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

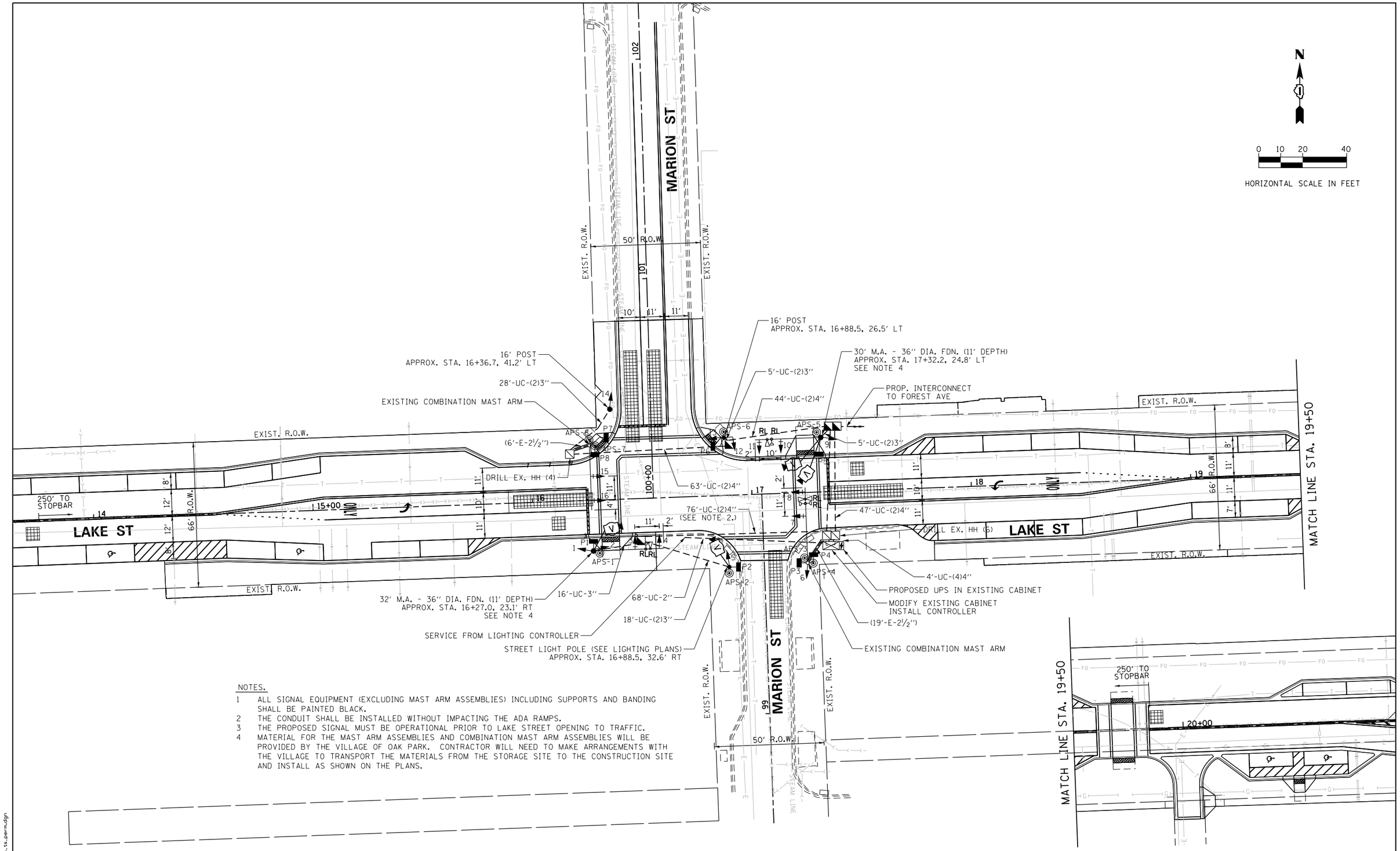
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND MARION STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	228
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES.

1 ALL SIGNAL EQUIPMENT (EXCLUDING MAST ARM ASSEMBLIES) INCLUDING SUPPORTS AND BANDING SHALL BE PAINTED BLACK.
2 THE CONDUIT SHALL BE INSTALLED WITHOUT IMPACTING THE ADA RAMPS.
3 THE PROPOSED SIGNAL MUST BE OPERATIONAL PRIOR TO LAKE STREET OPENING TO TRAFFIC.
4 MATERIAL FOR THE MAST ARM ASSEMBLIES AND COMBINATION MAST ARM ASSEMBLIES WILL BE PROVIDED BY THE VILLAGE OF OAK PARK. CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS WITH THE VILLAGE TO TRANSPORT THE MATERIALS FROM THE STORAGE SITE TO THE CONSTRUCTION SITE AND INSTALL AS SHOWN ON THE PLANS.

FILE NAME = 03_Marion_ts_permit.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND MARION STREET

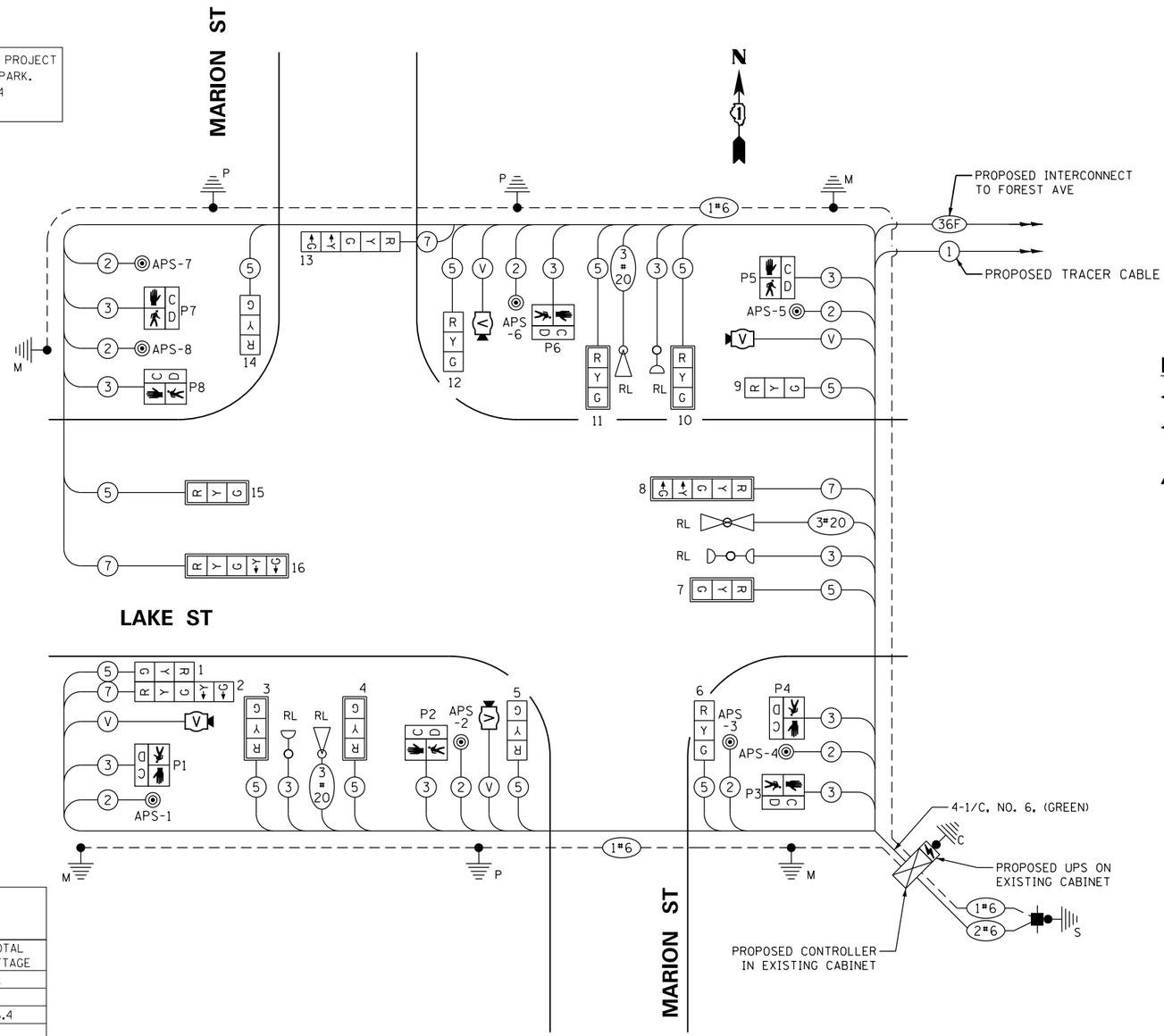
SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	229
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

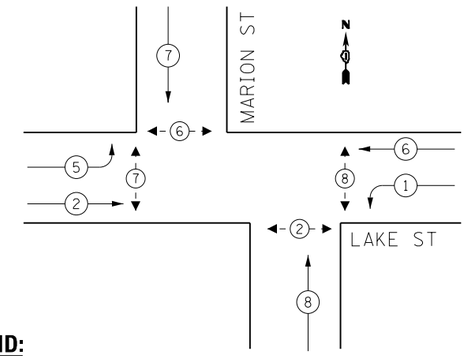
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET



CABLE PLAN

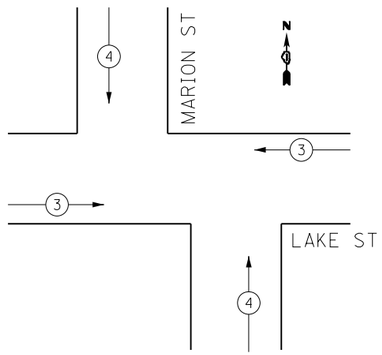
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	16		11	50	88
(YELLOW)	16		20	5	16
(GREEN)	16		12	45	86.4
ARROW	12		10	10	12
PED. SIGNAL	8		20	100	160
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	
LUMINAIRE	-		-	50	
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	637.4

VILLAGE OF OAK PARK
123 MADISON ST.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

FILE NAME = 04_Marion_cable_perm.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

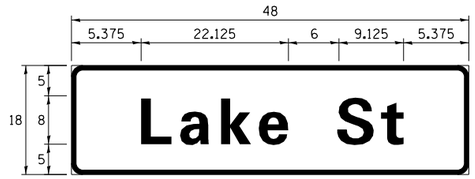
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND MARION STREET

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

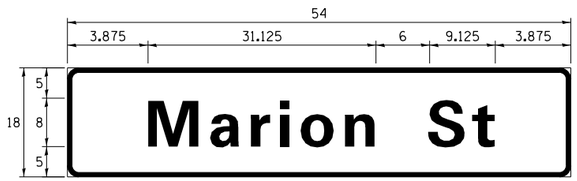
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	230
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

NOTE: 1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.
2. ALL SIGN BANDS SHOULD BE PAINTED BLACK.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	68
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	140
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	480
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1050
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1490
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1750
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	730
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	80
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	820
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6310
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	390
ROD AND CLEAN EXISTING CONDUIT	FOOT	25
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
VIDEO DETECTION SYSTEM	EACH	1
ELECTRIC SERVICE INSTALLATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM DUEL DETECTOR UNIT	EACH	1

FILE NAME = 05_Marion_sign.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
LAKE STREET AND MARION STREET

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	231
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

13	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
10	EACH	SIGNAL POST
10	EACH	PEDESTRIAN SIGNAL HEAD
7	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPER MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

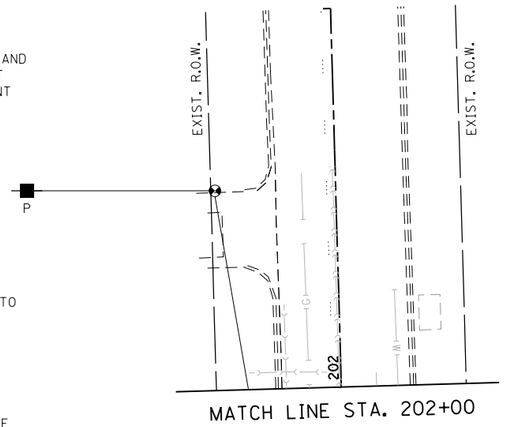
3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:

8	EACH	PEDESTRIAN PUSH-BUTTON

NOTE.

1. ALL EXISTING CONDUITS ARE TO BE ABANDONED IN PLACE UNLESS SHOWN IN THE PROPOSED CONDITION. EXISTING TRAFFIC SIGNAL CABLE SHALL BE REMOVED FROM THESE CONDUITS.
2. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE RELOCATED DURING STAGE CHANGE AS DIRECTED BY ENGINEER.
3. SOUTH LEG OF FOREST AVENUE AND LAKE STREET WILL BE UNDER STOP SIGN CONTROL DURING CONSTRUCTION WITH WEST LEG OF LAKE STREET CLOSED TO TRAFFIC. LAKE STREET MUST BE CLOSED TO TRAFFIC ON WEST SIDE OF SOUTH LEG OF FOREST AVENUE PRIOR TO SHUT DOWN OF EXISTING SIGNAL.



ALL STAGES

STAGE 1A SHOWN FOR REFERENCE

FILE NAME = 06_Forest_ts_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

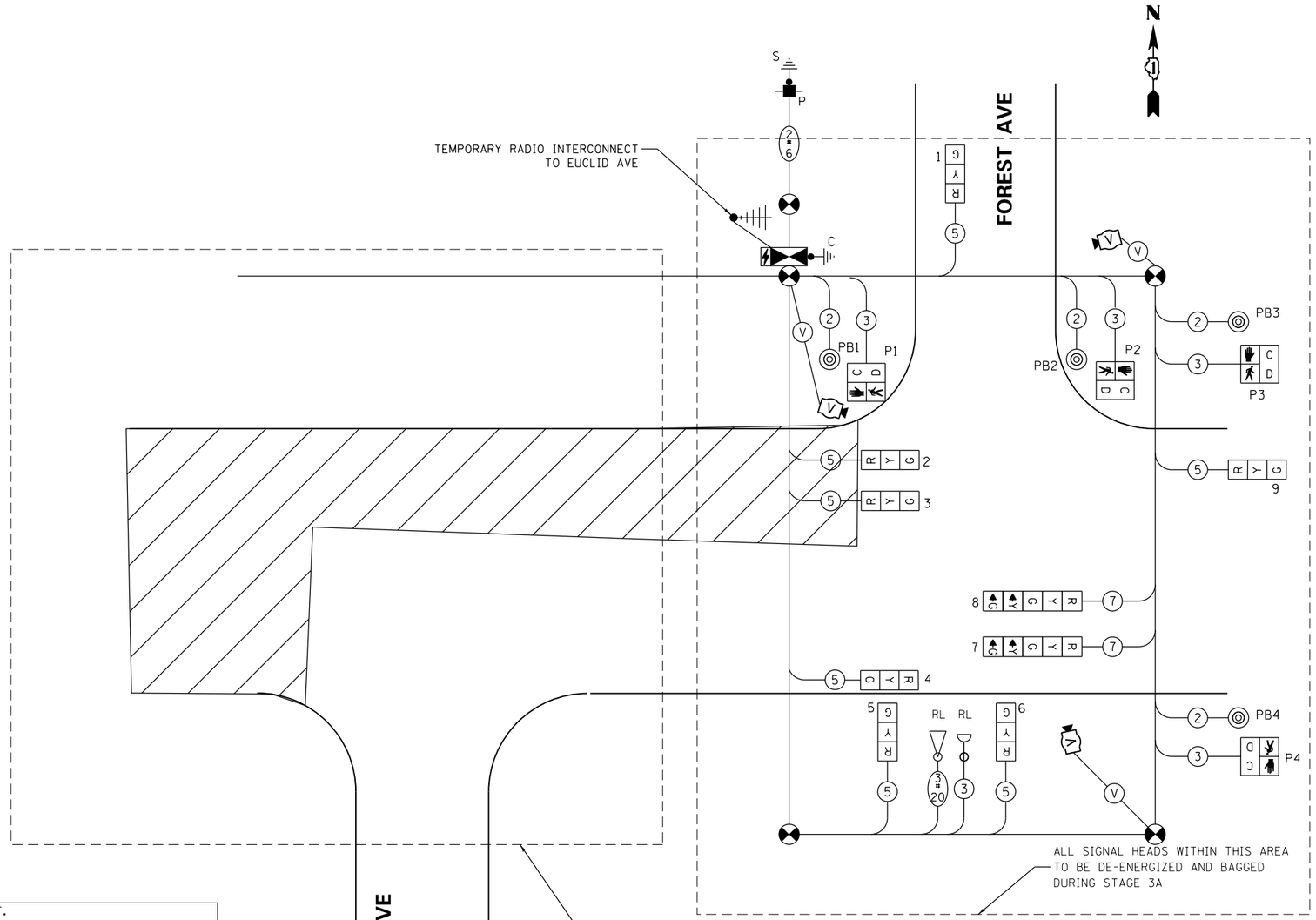
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND FOREST AVENUE

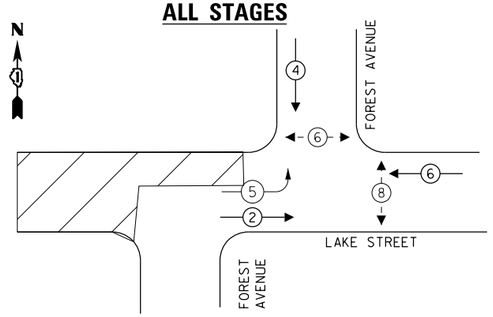
SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	232
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

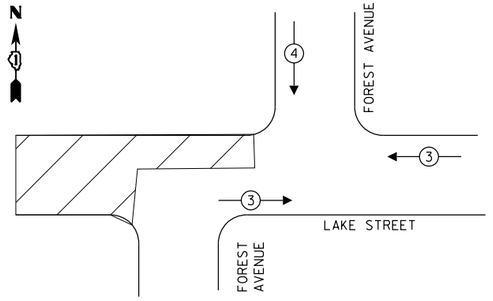


TEMPORARY CABLE PLAN
ALL STAGES

PROPOSED CONTROLLER SEQUENCE ALL STAGES



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE ALL STAGES



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9		11	50	49.5
(YELLOW)	9		20	5	9
(GREEN)	9		12	45	48.6
ARROW	4		10	10	4
PED. SIGNAL	4		20	100	80
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	466.1

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

FILE NAME = 07_Forest_cable_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

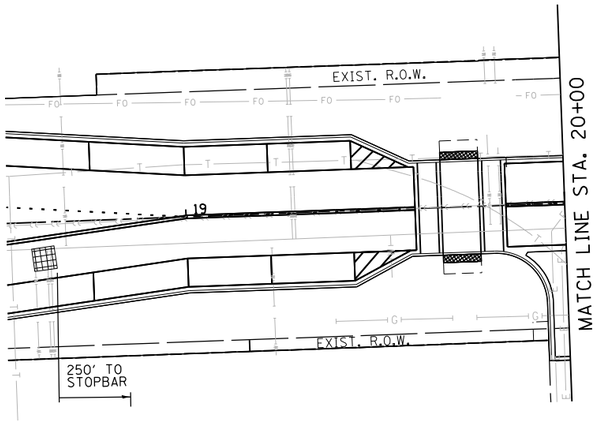
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND FOREST AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	233
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES

1 ALL SIGNAL EQUIPMENT (EXCLUDING MAST ARM ASSEMBLIES) INCLUDING SUPPORTS AND BANDING SHALL BE PAINTED BLACK.

2 MATERIAL FOR THE MAST ARM ASSEMBLIES AND COMBINATION MAST ARM ASSEMBLIES WILL BE PROVIDED BY THE VILLAGE OF OAK PARK. CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS WITH THE VILLAGE TO TRANSPORT THE MATERIALS FROM THE STORAGE SITE TO THE CONSTRUCTION SITE AND INSTALL AS SHOWN ON THE PLANS.

FILE NAME = 18.Forest_to_perm.dgn

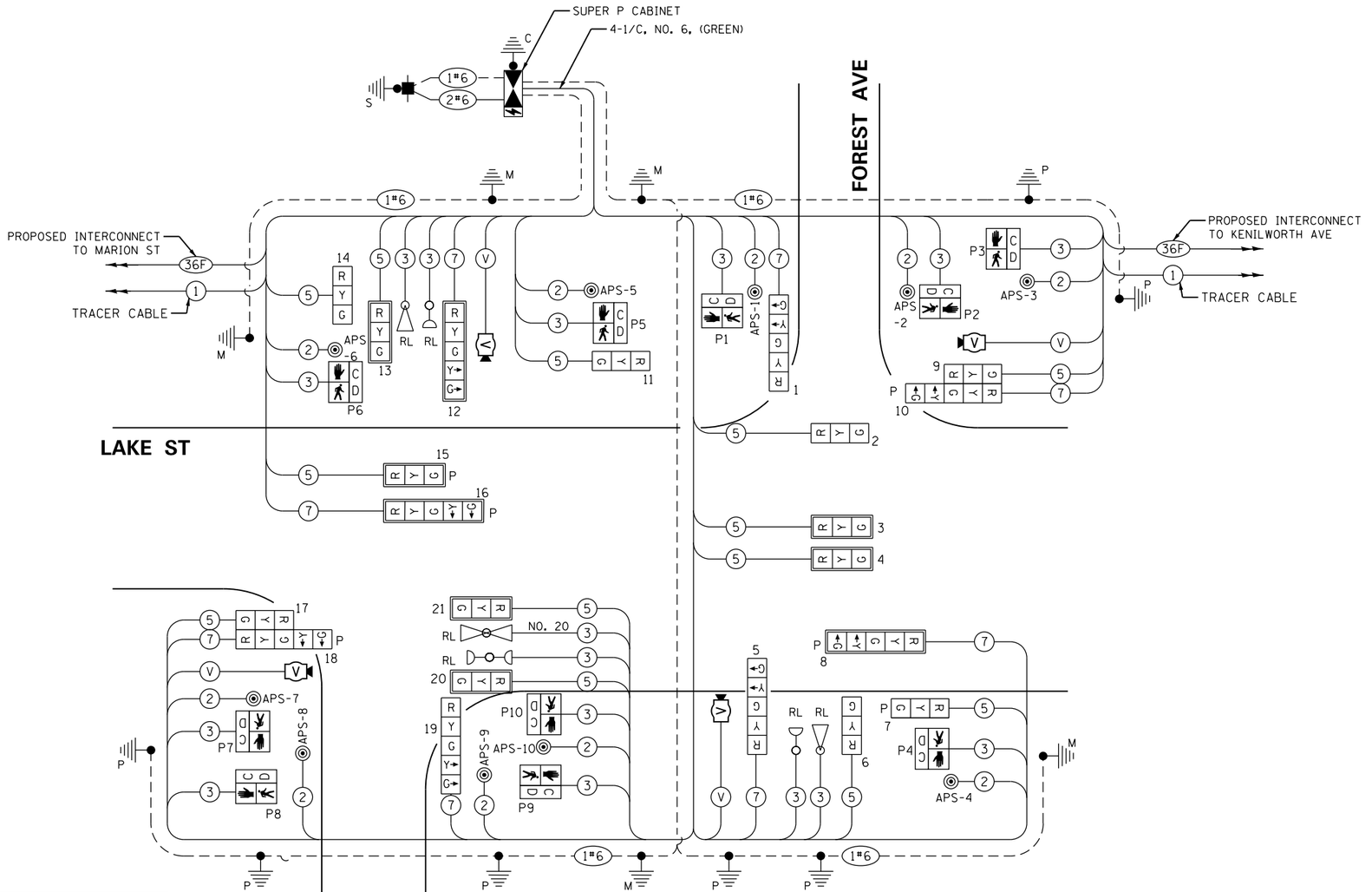
TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = GGedemer	DESIGNED - SA	REVISED -
		DRAWN - GKM	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
	PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND FOREST AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	234
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	21		11	50	115.5
(YELLOW)	21		20	5	21
(GREEN)	21		12	45	113.4
ARROW	8		10	10	8
PED. SIGNAL	10		20	100	200
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	732.9

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

FILE NAME = IL Forest cable permit.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

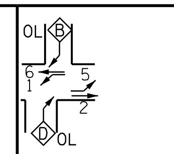
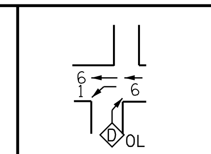
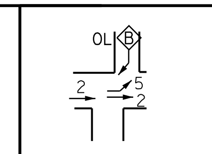
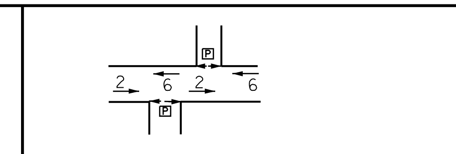
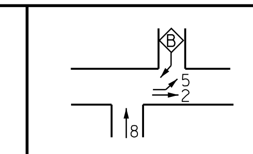
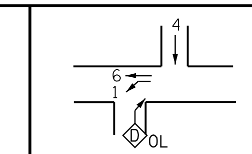
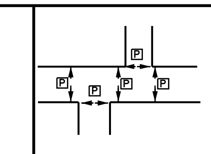
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE
LAKE STREET AND FOREST AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	235
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

PROPOSED SEQUENCE OF OPERATION

MOVEMENT (N ↑)																																								
PHASE		1+6+2+5+OLB-OLD				1+6+OLD					2+5+OLB					2+6											8+2+5+OLB						4+1+6+OLD						PED	
INTERVAL		1	2	3A	3B	4	5	6A	6A	7	8	9	10A	10B	10C	11	12	13A	13B	13C	14A	14B	14C	15A	15B	15C	16	16A	16B	17A	17B	17C	18	18A	18B	19A	19B	19C	19B	19C
CHANGE TO			2+6		ALL PED		2+6			ALL PED		2+6			ALL PED			4+1+6+OLD			8+2+5+OLB			ALL PED				1+6+2+5 +OLD+OLB 2+5+OLB		4+1+6+OLD 1+6+OLD, ALL PED				1+6+2+5+OLB +OLD 2+6		8+2+5+OLB 1+6+OLD				ALL PHASES
LAKE STREET (WEST OF SOUTH LEG OF FOREST AVE) END MAST ARM AND FAR LEFT TURN SIGNALS OPT. PRG SIG.	W/B (16,18)	G ←G	G ←Y	Y	R	G ←G	G ←Y	G ←G	Y	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	G ←G	G ←G	G ←G	G ←G	Y	R	R	R
LAKE STREET (WEST OF SOUTH LEG OF FOREST AVE) RIGHT SIGNAL OPT. PRG SIG.	W/B (15)	G	G	Y	R	G	G	G	Y	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	G	G	G	G	Y	R	R	R
LAKE STREET (WEST OF NORTH LEG OF FOREST AVE) MAST ARM SIGNALS (EAST OF NORTH LEG OF FOREST AVE) NEAR RIGHT SIGNAL	W/B (2,3,4,9)	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	G	G	Y	R	R	Y	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
LAKE STREET (EAST OF NORTH LEG OF FOREST AVE) END MAST ARM AND FAR LEFT TURN SIGNALS OPT. PRG SIG.	E/B (8,10)	G ←G	G ←Y	Y	R	R	R	R	R	R	G ←G	G ←Y	G ←G	Y	R	G	G	G	G	G	G	Y	R	G	Y	R	G ←G	G ←G	G ←G	G ←G	Y	R	R	R	R	R	R	R	R	R
LAKE STREET (EAST OF NORTH LEG OF FOREST AVE) RIGHT MAST SIGNAL OPT. PRG SIG.	E/B (7)	G	G	Y	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	Y	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
LAKE STREET (EAST OF SOUTH LEG OF FOREST AVE) MAST ARM AND FAR LEFT SIGNALS (WEST OF SOUTH LEG OF FOREST AVE) NEAR RIGHT SIGNAL	E/B (11,17,20,21)	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	G	G	Y	R	R	Y	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FOREST AVENUE MAST ARM SIGNAL	N/B (13,14)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R
FOREST AVENUE MAST ARM AND NEAR RIGHT SIGNALS - RIGHT TURN SIGNALS	N/B (12,19)	G→	Y→	Y→	R	G→	Y→	Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G→	G→	G→	Y→	R	R	R	R
FOREST AVENUE MAST ARM SIGNAL	S/B (6)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R
FOREST AVENUE MAST ARM AND NEAR RIGHT SIGNALS - RIGHT TURN SIGNALS	S/B (1,5)	G→	Y→	Y→	R	R	R	R	R	R	G→	Y→	Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	G→	G→	G	Y→	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNAL HEAD CROSSING LAKE (EAST, MID AND WEST SIDE)	(P3,P4,P5, P6,P7,P10)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**CD
PEDESTRIAN SIGNAL CROSSING FOREST AVE (NORTH SIDE)	(P1,P2)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**CD	H	H	H	H	H	H	*P	*P	*P	H	H	H	H	H	H	H	H	H	H	H	H	*P	**CD
PEDESTRIAN SIGNAL CROSSING FOREST AVE (SOUTH SIDE)	(P8,P9)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**CD	H	H	H	H	H	H	*P	*P	*P	H	H	H	H	H	H	H	H	H	H	H	H	*P	**CD

PHASE 2+6 SHALL BE PLACED ON RECALL

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** COUNT DOWN IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

CD = ILLUMINATED COUNTDOWN

H = ILLUMINATED SOLID HAND = DON'T WALK

θ P OR CD INTERVAL MAY FINISH IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT TURN ARROW TIME IS NOT SUFFICIENT TO COMPLETE THE P OR CD INTERVALS.

FILE NAME = 12_Forest_Sequence.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATIONS
LAKE STREET AND FOREST AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	236
		CONTRACT NO.		

ILLINOIS | FED. AID PROJECT

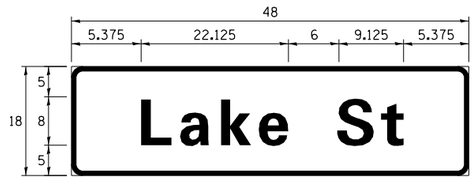
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1		1		4	4			4		8	8		8			11	11				11				16	16	16			18	18			18	PED	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1II	1JJ	1GG	1HH	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	3	1E	4	2	1H	1I	3	1K	4	2	1N	3	1Q	1R	4	2	1U	1V	1W	3	1U	1Z	1AA	4	2	3	1EE	1FF	4	2	1II	1JJ	3	4	2,3 & 4				
LAKE STREET (WEST OF SOUTH LEG OF FOREST AVE) END MAST ARM AND FAR LEFT TURN SIGNALS OPT. PRG SIG.	W/B (16,18)	G ←Y	Y	R	G ←G	G ←G	G ←G	G ←G	Y	R	G ←G	G ←G	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	G ←Y	G ←G	Y	R	G ←G	R	G	R	G ←G	◊
LAKE STREET (WEST OF SOUTH LEG OF FOREST AVE) RIGHT SIGNAL OPT. PRG SIG.	W/B (15)	G	Y	R	G	G	G	G	Y	R	G	G	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	G	G	Y	R	G	R	G	R	G	◊
LAKE STREET (WEST OF NORTH LEG OF FOREST AVE) MAST ARM SIGNALS (EAST OF NORTH LEG OF FOREST AVE) NEAR RIGHT SIGNAL	W/B (2,3,4,9)	R	R	R	R	R	G	Y	R	R	Y	R	R	R	R	R	R	R	G	G	Y	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
LAKE STREET (EAST OF NORTH LEG OF FOREST AVE) END MAST ARM AND FAR LEFT TURN SIGNALS OPT. PRG SIG.	E/B (8,10)	G ←Y	G ←G	G ←G	Y	R	R	R	R	R	R	R	G ←Y	G ←G	G ←G	G ←G	Y	R	G	G	G	G	G	G	G	Y	R	G ←Y	G ←G	G ←G	Y	R	R	R	R	R	R	R	G	G ←G	R	◊
LAKE STREET (EAST OF NORTH LEG OF FOREST AVE) RIGHT MAST SIGNAL OPT. PRG SIG.	E/B (7)	G	G	G	Y	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	G	G	Y	R	G	G	G	Y	R	R	R	R	R	R	R	G	G	R	◊
LAKE STREET (EAST OF SOUTH LEG OF FOREST AVE) MAST ARM AND FAR LEFT SIGNALS (WEST OF SOUTH LEG OF FOREST AVE) NEAR RIGHT SIGNAL	E/B (11,17,20,21)	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
FOREST AVENUE MAST ARM SIGNAL	N/B (13,14)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	R	R	R	R	R	R	G	R	◊
FOREST AVENUE MAST ARM AND NEAR RIGHT SIGNALS - RIGHT TURN SIGNALS	N/B (12,19)	Y→	G→	G→	Y→	R	Y→	Y→	R	R	Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y→	Y→	R	R	Y→	R	R	G ←G	R	◊
FOREST AVENUE MAST ARM SIGNAL	S/B (6)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	G	R	R	R	G	◊
FOREST AVENUE MAST ARM AND NEAR RIGHT SIGNALS - RIGHT TURN SIGNALS	S/B (1,5)	Y→	Y→	R	G→	G→	R	R	R	R	R	R	Y→	Y→	R	Y→	R	R	R	R	R	R	R	R	R	R	R	Y→	Y→	Y→	R	R	R	R	R	R	R	R	R	R	G ←G	◊
PEDESTRIAN SIGNAL HEAD CROSSING LAKE (EAST, MID AND WEST SIDE)	(P3,P4,P5, P6,P7,P10)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	◊
PEDESTRIAN SIGNAL CROSSING FOREST AVE (NORTH SIDE)	(P1,P2)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	◊
PEDESTRIAN SIGNAL CROSSING FOREST AVE (SOUTH SIDE)	(P8,P9)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	◊

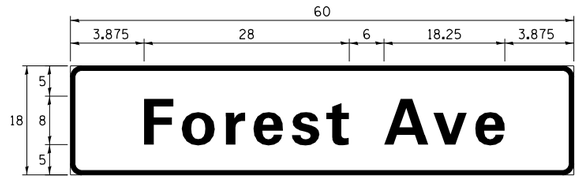
◊ = EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPOER CLEARANCE INTERVAL TO RESUME THE NORMAL OPERATION OR PROPOER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVALS 2,3 OR 4 ARE TERMINATED.

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	4

NOTE: 1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.
2. ALL SIGN BANDS SHOULD BE PAINTED BLACK.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	388
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	278
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2010
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2690
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2520
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1610
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1760
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
STEEL MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	31
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	3
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	14
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	640
INTERCEPT EXISTING CONDUIT	EACH	4
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM DUEL DETECTOR UNIT	EACH	1

FILE NAME = I4_Forest_sign.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
LAKE STREET AND FOREST AVE

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	238
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

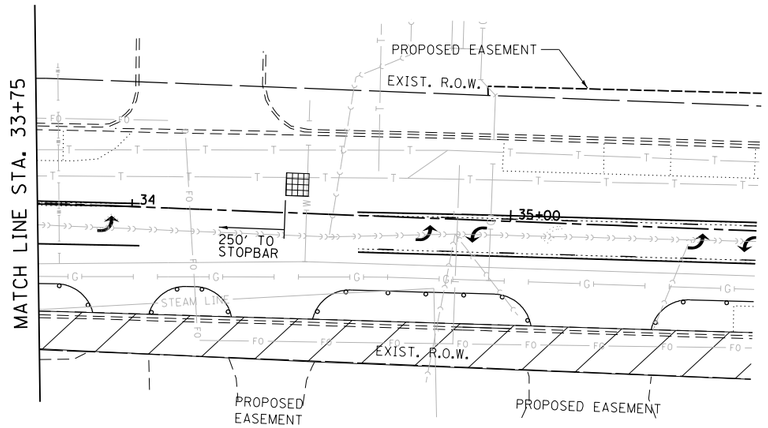
10	EACH	3-SECTION SIGNAL HEAD
2	EACH	5-SECTION SIGNAL HEAD
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
9	EACH	SIGNAL POST
8	EACH	PEDESTRIAN SIGNAL HEAD
6	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

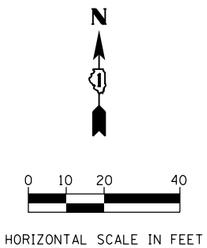
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPER MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

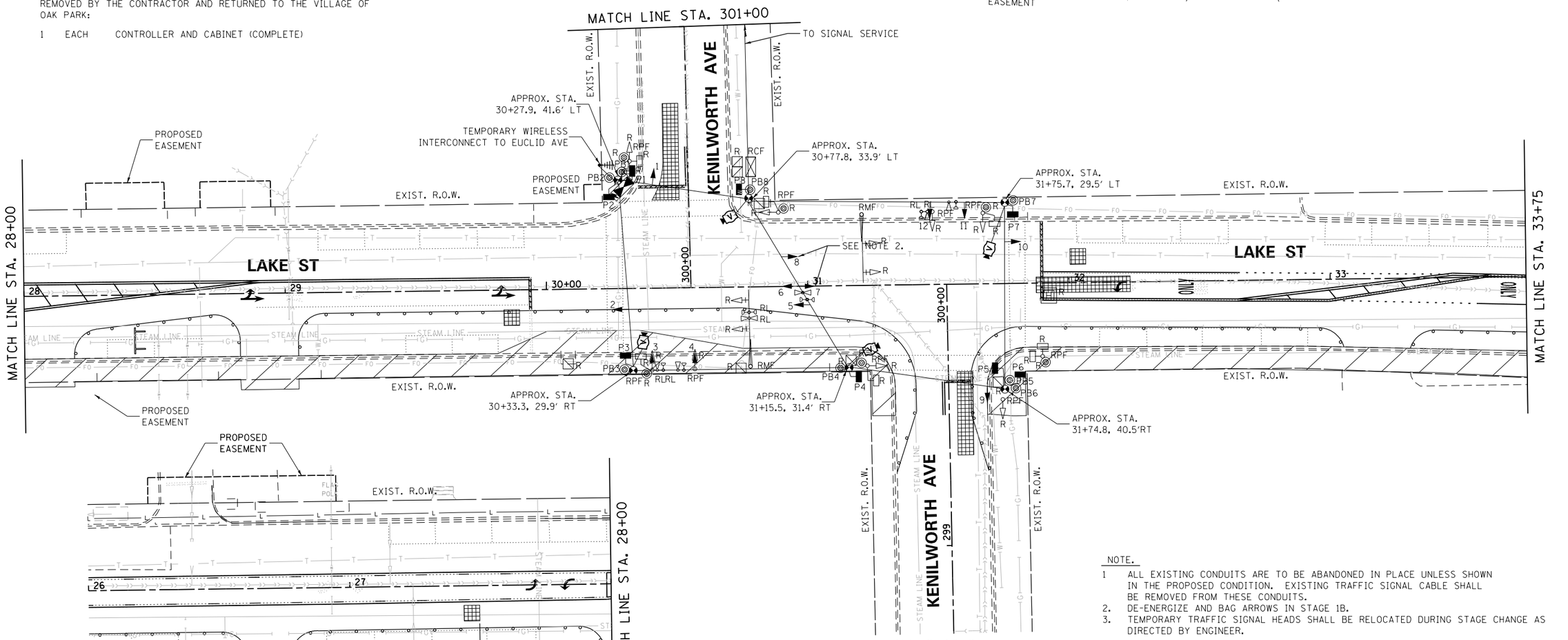
3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:

1	EACH	CONTROLLER AND CABINET (COMPLETE)







ALL STAGES

STAGE 1A SHOWN FOR REFERENCE

NOTE.

1. ALL EXISTING CONDUITS ARE TO BE ABANDONED IN PLACE UNLESS SHOWN IN THE PROPOSED CONDITION. EXISTING TRAFFIC SIGNAL CABLE SHALL BE REMOVED FROM THESE CONDUITS.
2. DE-ENERGIZE AND BAG ARROWS IN STAGE 1B.
3. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE RELOCATED DURING STAGE CHANGE AS DIRECTED BY ENGINEER.

FILE NAME = 15_Kenilworth_ts_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

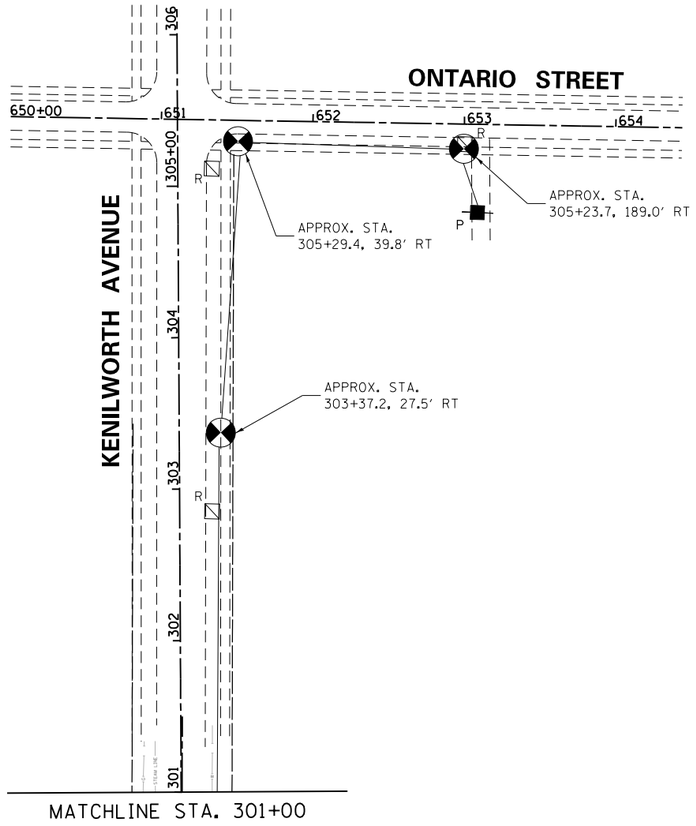
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND KENILWORTH AVENUE (SHEET 1 OF 2)

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	239
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



FILE NAME = 16_Kenilworth_ts_temp_SERVICE.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

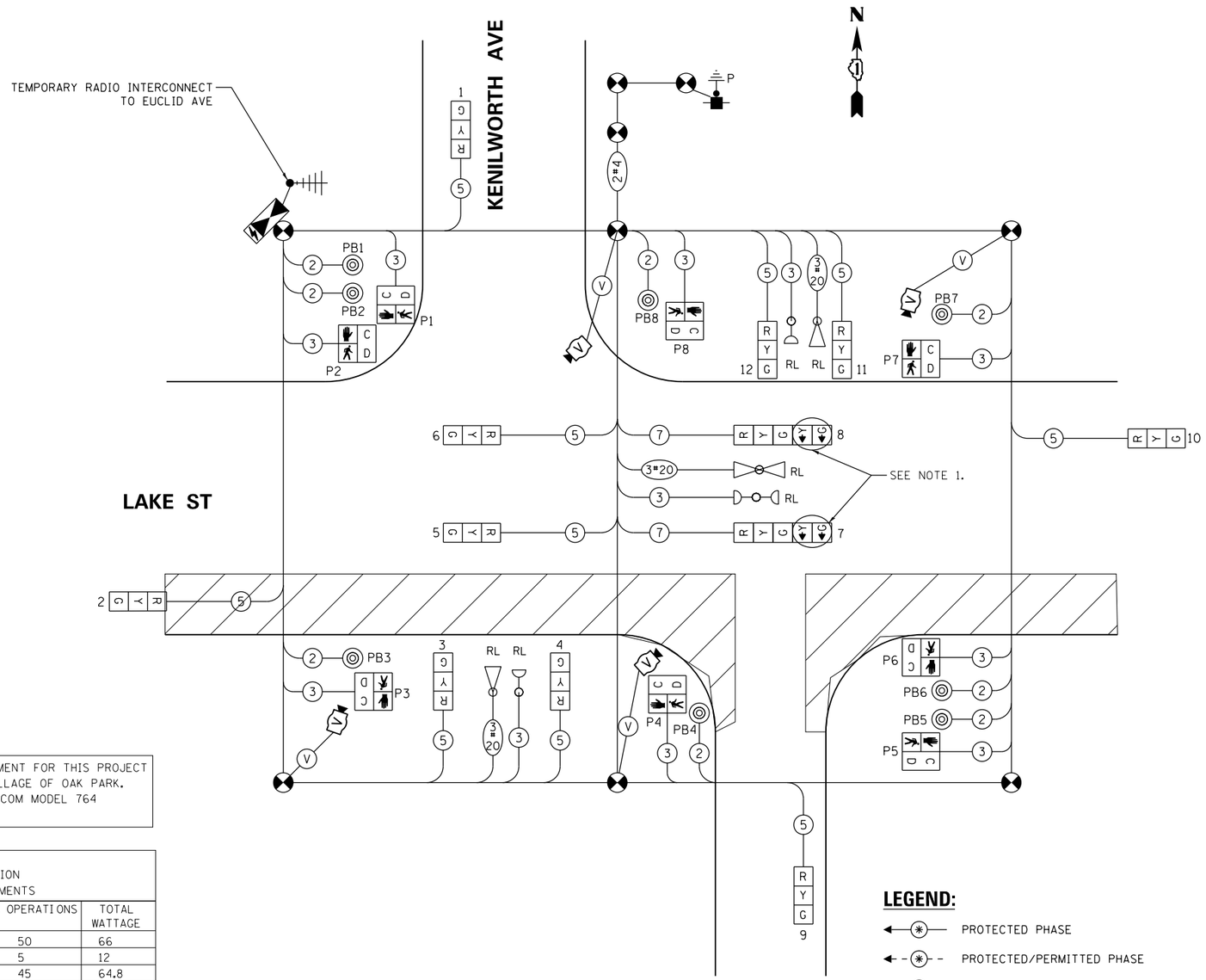
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - GG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND KENILWORTH AVENUE (SHEET 2 OF 2)

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	240
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



TEMPORARY CABLE PLAN

ALL STAGES

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		11	50	66
(YELLOW)	12		20	5	12
(GREEN)	12		12	45	64.8
ARROW	4		10	10	4
PED. SIGNAL	8		20	100	160
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	581.8

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

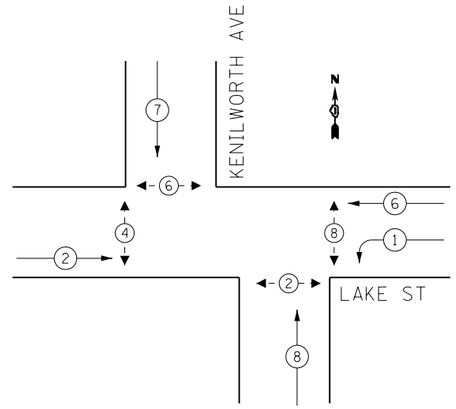
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

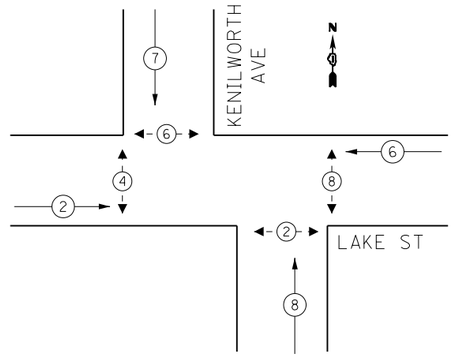
NOTES:

1. LEFT TURN ARROWS TO BE DE-ENERGIZED DURING STAGE 1B.

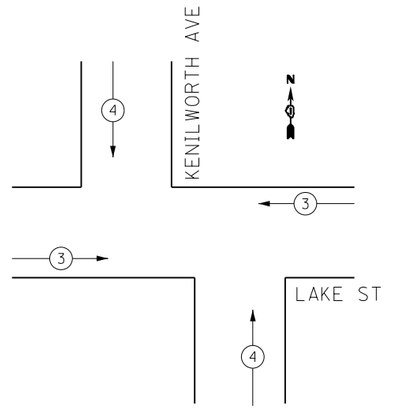
PROPOSED CONTROLLER SEQUENCE ALL OTHER STAGES



PROPOSED CONTROLLER SEQUENCE STAGE 1B



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE – ALL STAGES



FILE NAME = 17_Kenilworth_cable_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND KENILWORTH AVENUE

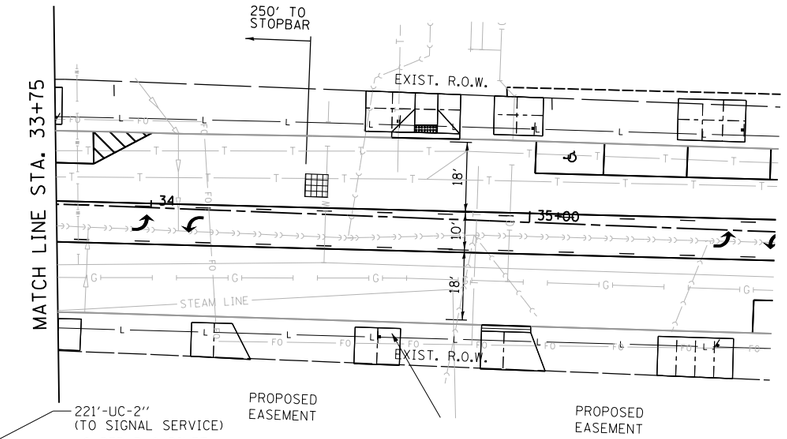
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

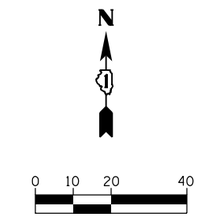
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	241
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

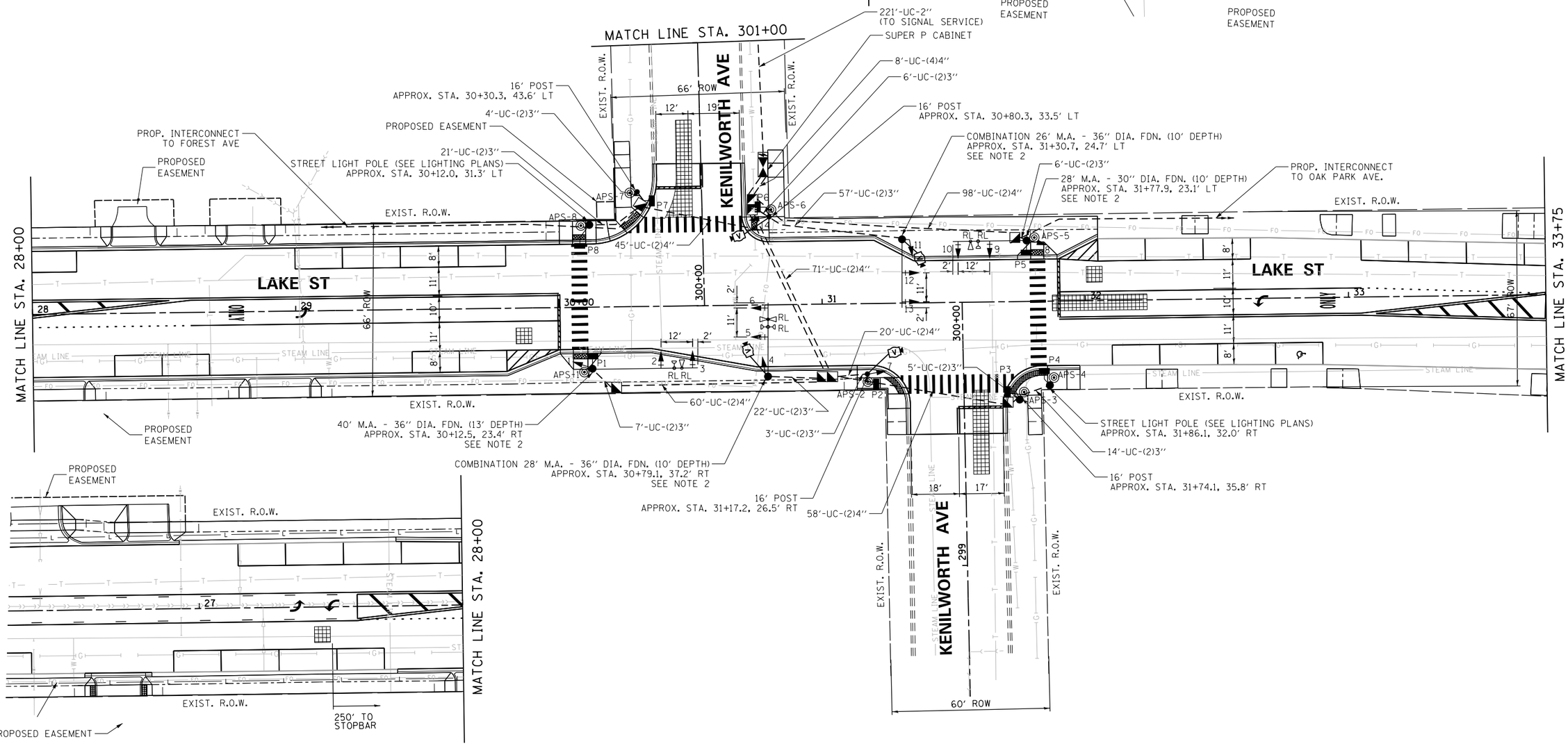
NOTES

1 ALL SIGNAL EQUIPMENT (EXCLUDING MAST ARM ASSEMBLIES) INCLUDING SUPPORTS AND BANDING SHALL BE PAINTED BLACK.

2 MATERIAL FOR THE MAST ARM ASSEMBLIES AND COMBINATION MAST ARM ASSEMBLIES WILL BE PROVIDED BY THE VILLAGE OF OAK PARK. CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS WITH THE VILLAGE TO TRANSPORT THE MATERIALS FROM THE STORAGE SITE TO THE CONSTRUCTION SITE AND INSTALL AS SHOWN ON THE PLANS.







FILE NAME = 18-kenilworth_ts_perm.dgn

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = GGedemer	DESIGNED - SA	REVISED -
		DRAWN - GKM	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
	PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND KENILWORTH AVENUE (SHEET 1 OF 2)

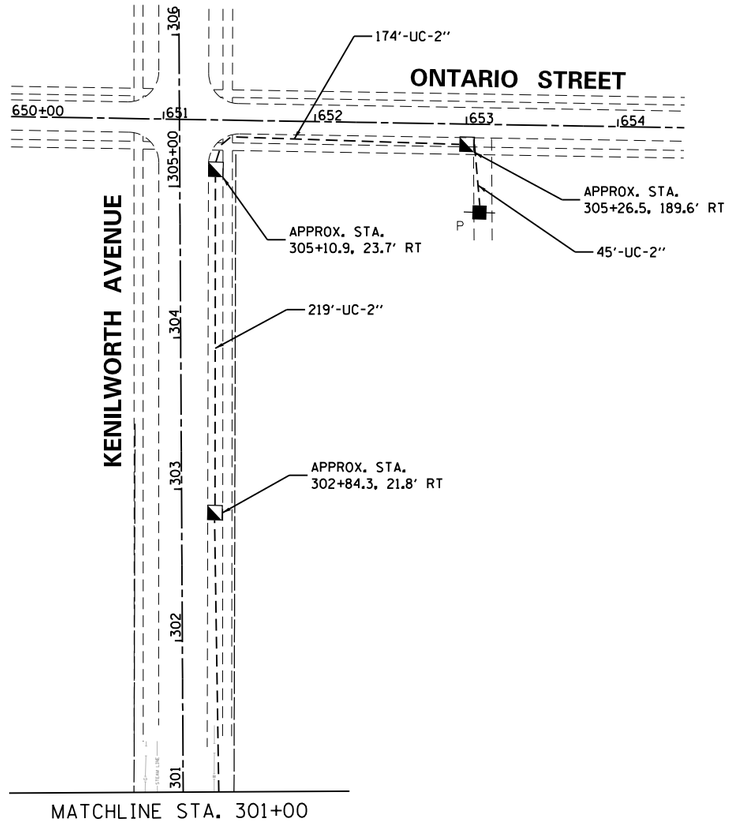
SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	242
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

N

0 25 50 100

HORIZONTAL SCALE IN FEET



FILE NAME = 19_Kenilworth_ts_perm_SERVICE.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

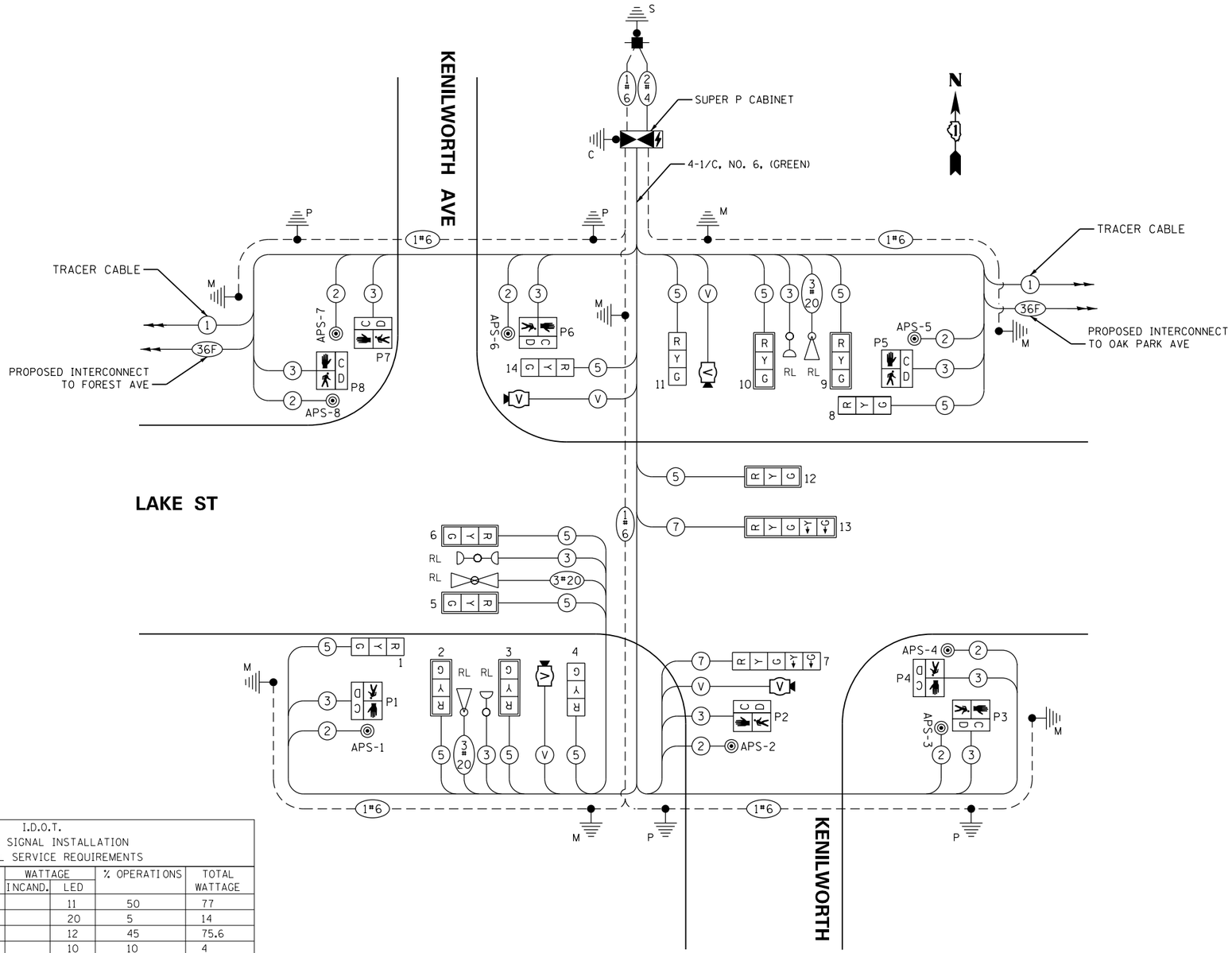
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND KENILWORTH AVENUE (SHEET 2 OF 2)

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	243
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

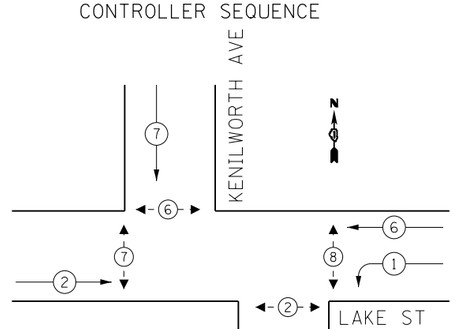


CABLE PLAN

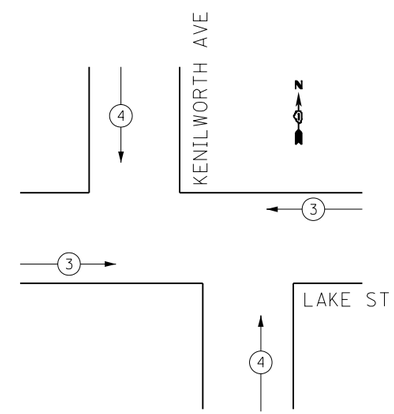
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	14		11	50	77
(YELLOW)	14		20	5	14
(GREEN)	14		12	45	75.6
ARROW	4		10	10	4
PED. SIGNAL	8		20	100	160
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	605.6

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

FILE NAME = 20_Kenilworth_cable_perm.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

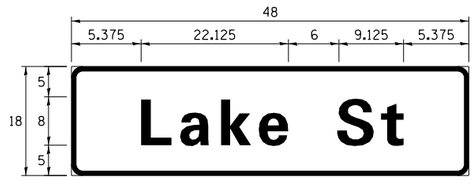
CABLE PLAN
LAKE STREET AND KENILWORTH AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

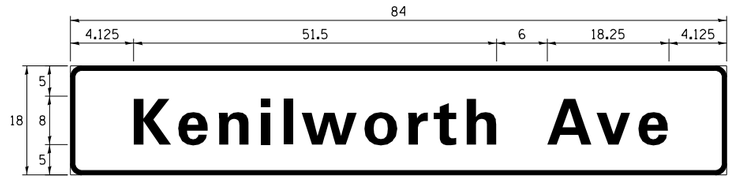
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	244
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	4

NOTE: 1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.
2. ALL SIGN BANDS SHOULD BE PAINTED BLACK.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	659
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	280
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	680
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1100
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1750
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1950
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	280
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2 C	FOOT	700
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1830
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	33
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8210
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	600
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM DUEL DETECTOR UNIT	EACH	1

FILE NAME = 23.Kenilworth.sign.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

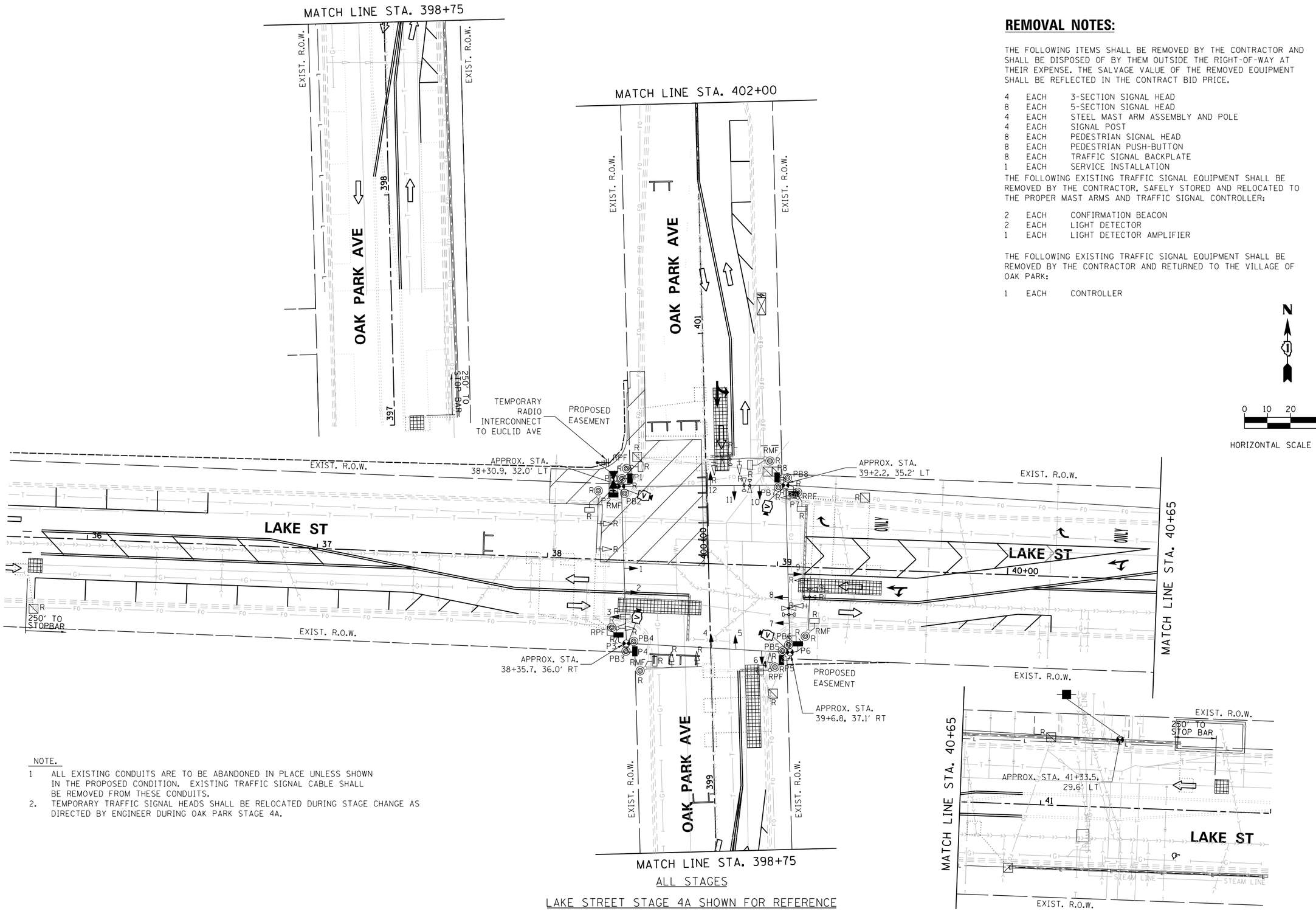
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
LAKE STREET AND KENILWORTH AVE

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	245
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



ALL STAGES

LAKE STREET STAGE 4A SHOWN FOR REFERENCE

NOTE.

1 ALL EXISTING CONDUITS ARE TO BE ABANDONED IN PLACE UNLESS SHOWN IN THE PROPOSED CONDITION. EXISTING TRAFFIC SIGNAL CABLE SHALL BE REMOVED FROM THESE CONDUITS.

2. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE RELOCATED DURING STAGE CHANGE AS DIRECTED BY ENGINEER DURING OAK PARK STAGE 4A.

REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4	EACH	3-SECTION SIGNAL HEAD
8	EACH	5-SECTION SIGNAL HEAD
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
4	EACH	SIGNAL POST
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPER MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:

1	EACH	CONTROLLER

N

0 10 20 40

HORIZONTAL SCALE IN FEET

FILE NAME = 24_Oak Park_ts_temp.dgn

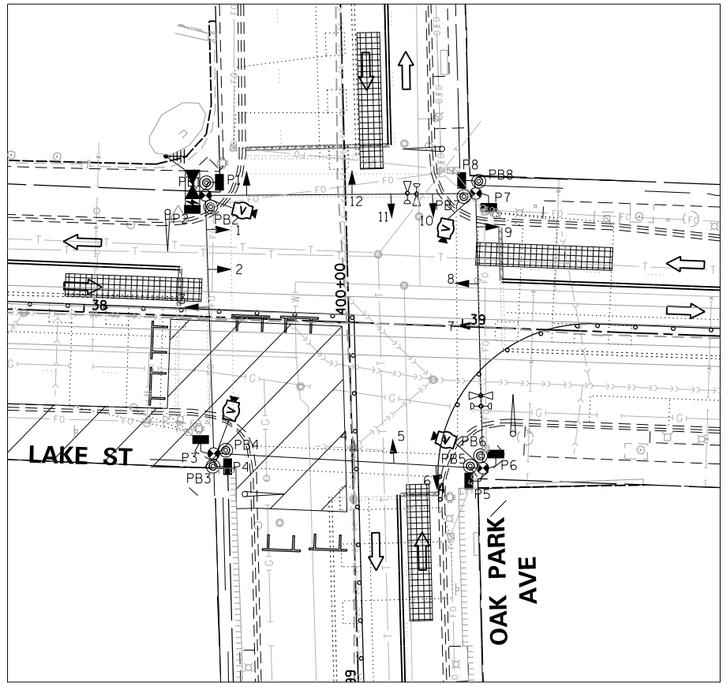
TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = GGedemer	DESIGNED - SA	REVISED -
		DRAWN - GKM	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
	PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

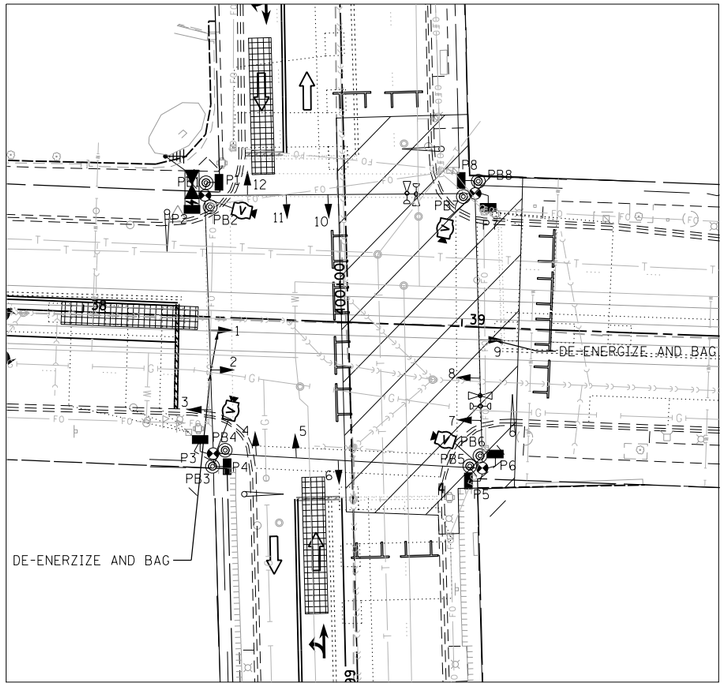
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND OAK PARK AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	246
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



4B – LAKE STREET



4C – LAKE STREET

STAGE 4B AND 4C
LAKE STREET

NOTES:

1. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE RELOCATED DURING OAK PARK STAGE 4B AND 4C STAGE AS DIRECTED BY ENGINEER.

N

10 20 40

HORIZONTAL SCALE IN FEET

FILE NAME = 24a_Oak Park_ts_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

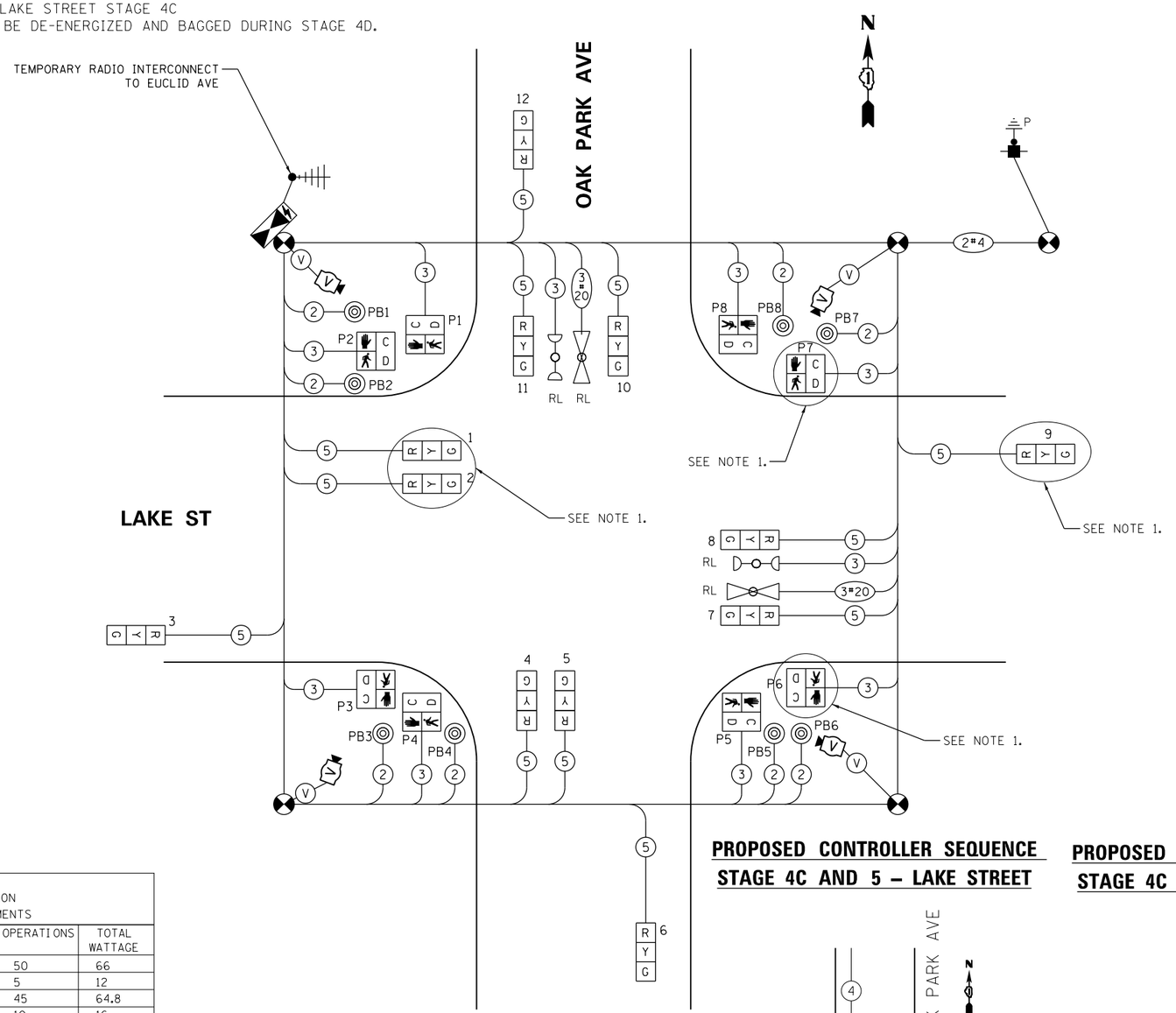
TEMPORARY TRAFFIC SIGNAL INSTALLATION
STAGE 4B AND 4C
LAKE STREET AND OAK PARK AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	247
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

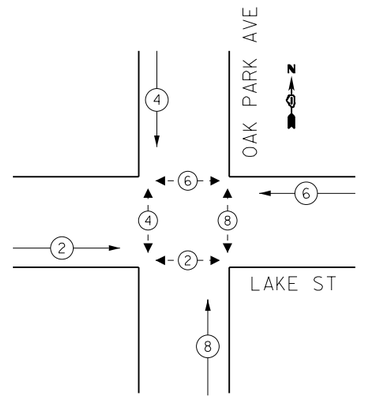
NOTES:

1. DE-ENERGIZE AND BAG DURING LAKE STREET STAGE 4C
2. ALL TEMPORARY SIGNAL SHALL BE DE-ENERGIZED AND BAGGED DURING STAGE 4D.

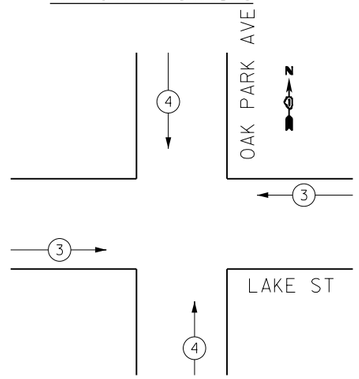


TEMPORARY CABLE PLAN

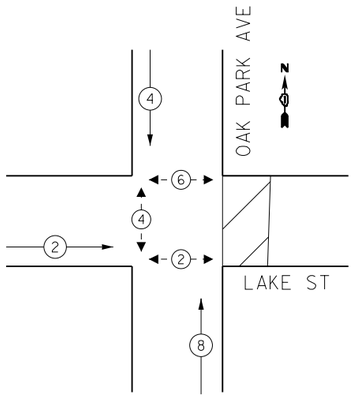
PROPOSED CONTROLLER SEQUENCE
ALL OTHER STAGES



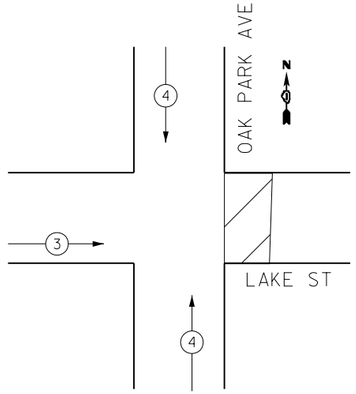
PROPOSED CONTROLLER SEQUENCE
ALL OTHER STAGES



PROPOSED CONTROLLER SEQUENCE
STAGE 4C AND 5 – LAKE STREET



PROPOSED CONTROLLER SEQUENCE
STAGE 4C AND 5 – LAKE STREET



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	12		11	50	66
(YELLOW)	12		20	5	12
(GREEN)	12		12	45	64.8
ARROW	16		10	10	16
PED. SIGNAL	8		20	100	160
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	593.8

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

FILE NAME = 25_Oak Park_cable_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

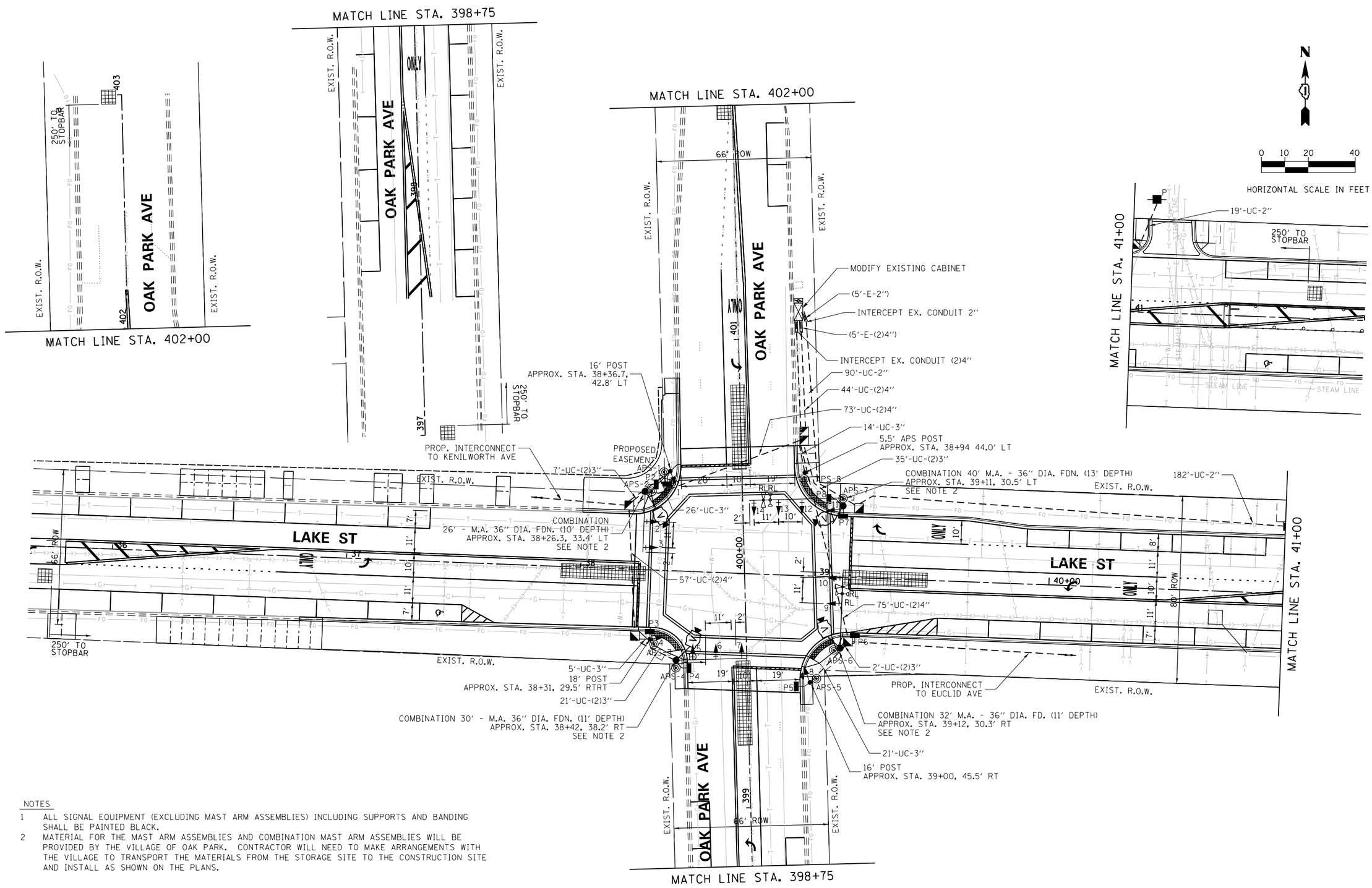
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND OAK PARK AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	248
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES

1 ALL SIGNAL EQUIPMENT (EXCLUDING MAST ARM ASSEMBLIES) INCLUDING SUPPORTS AND BANDING SHALL BE PAINTED BLACK.

2 MATERIAL FOR THE MAST ARM ASSEMBLIES AND COMBINATION MAST ARM ASSEMBLIES WILL BE PROVIDED BY THE VILLAGE OF OAK PARK. CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS WITH THE VILLAGE TO TRANSPORT THE MATERIALS FROM THE STORAGE SITE TO THE CONSTRUCTION SITE AND INSTALL AS SHOWN ON THE PLANS.

FILE NAME = 26_Oak Park_ts_perm.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

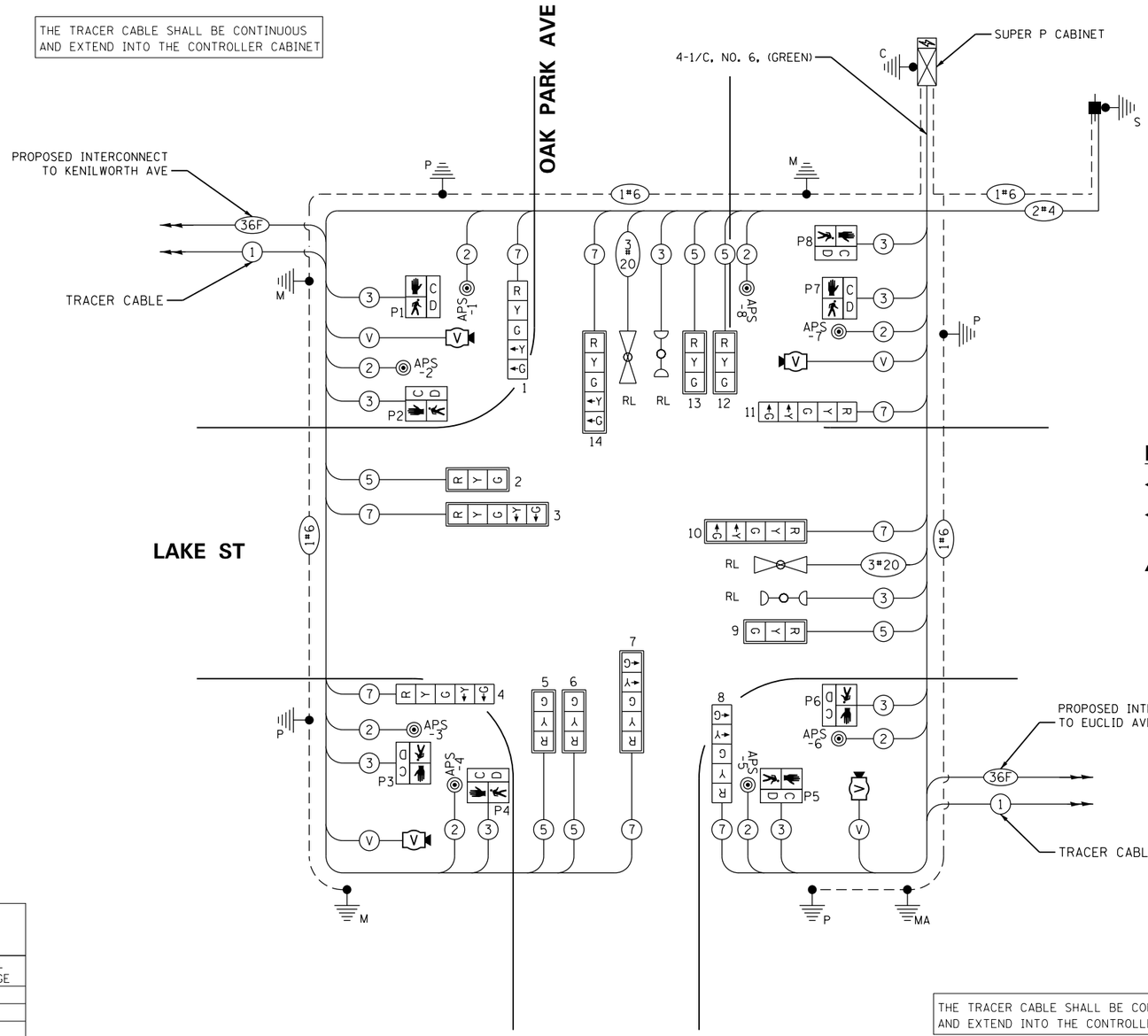
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT TRAFFIC SIGNAL EQUIPMENT PLAN
LAKE STREET AND OAK PARK AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	249
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET



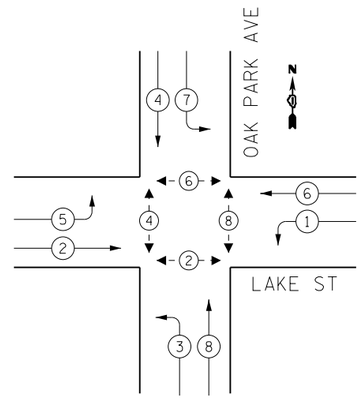
CONTROLLER SHALL BE "ECONOLITE" TO MATCH ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF OAK PARK. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

CABLE PLAN

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

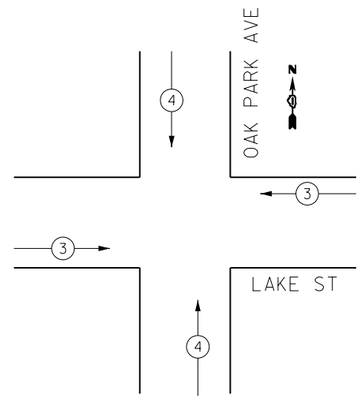
CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	14		11	50	77
(YELLOW)	14		20	5	14
(GREEN)	14		12	45	75.6
ARROW	16		10	10	16
PED. SIGNAL	8		20	100	160
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		100	150
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	617.6

VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

FILE NAME = 27_Oak Park_cable_permudgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

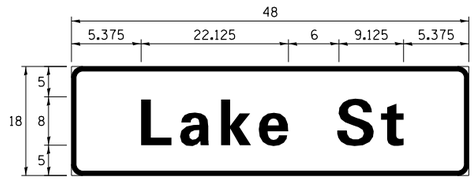
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND OAK PARK AVENUE

SCALE: N.T.S. | SHEET 4 OF 4 SHEETS | STA. | TO STA.

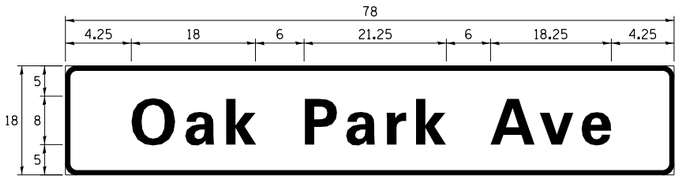
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	250
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	1	ZZ	2

NOTE: 1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.
2. ALL SIGN BANDS SHOULD BE PAINTED BLACK.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	291
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	175
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	498
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1720
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2360
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1480
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1940
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2 C	FOOT	330
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1100
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9340
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	410
ROD AND CLEAN EXISTING CONDUIT	FOOT	15
INTERCEPT EXISTING CONDUIT	EACH	3
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM DUEL DETECTOR UNIT	EACH	1

FILE NAME = 28_OakPark_sign.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
LAKE STREET AND OAK PARK AVE

SCALE: N.T.S. | SHEET 2 OF 20 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	251
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

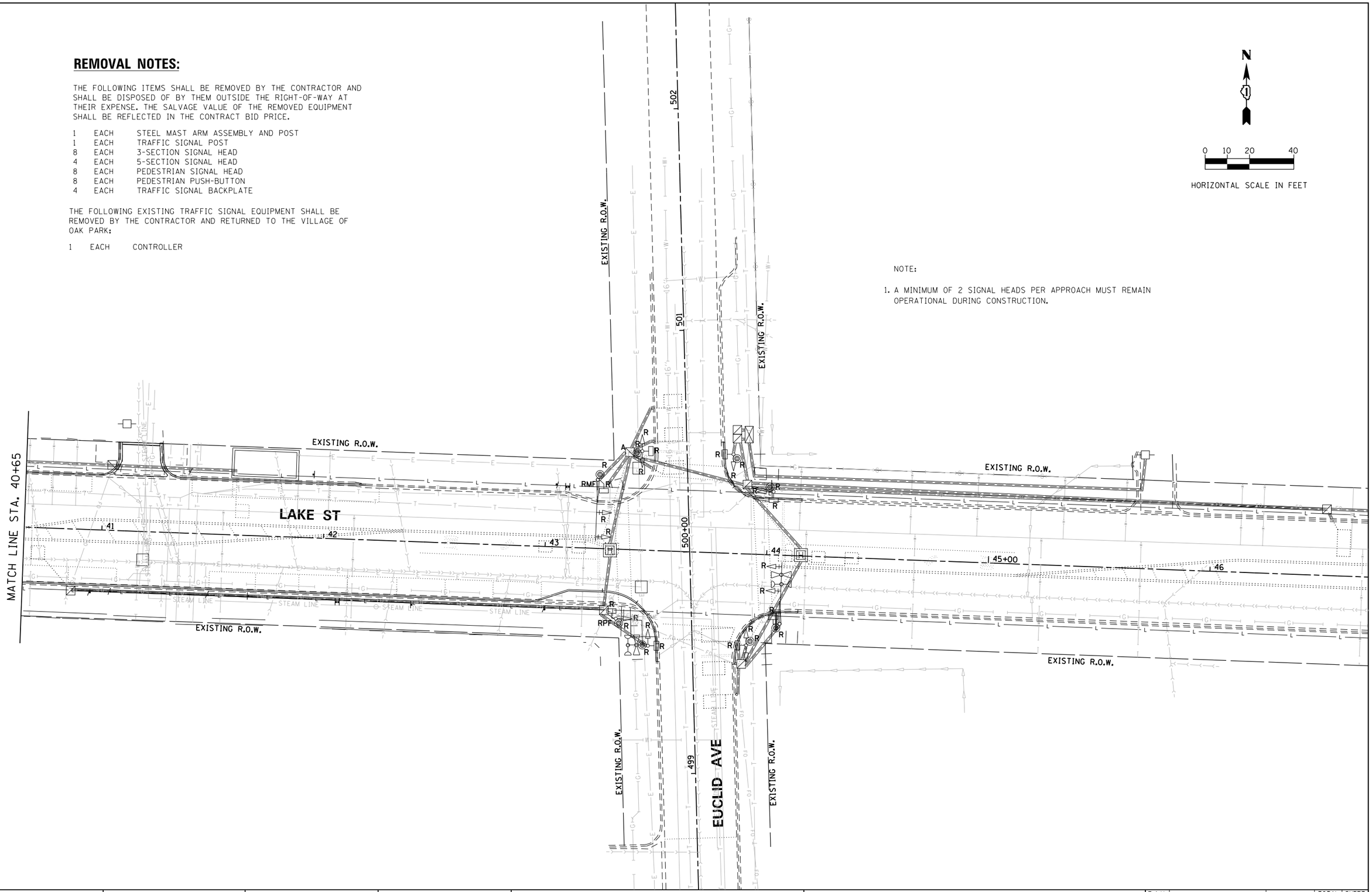
REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	STEEL MAST ARM ASSEMBLY AND POST
1	EACH	TRAFFIC SIGNAL POST
8	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE VILLAGE OF OAK PARK:

1	EACH	CONTROLLER



NOTE:

1. A MINIMUM OF 2 SIGNAL HEADS PER APPROACH MUST REMAIN OPERATIONAL DURING CONSTRUCTION.

FILE NAME = 29.Euclid.Signal.Removal.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

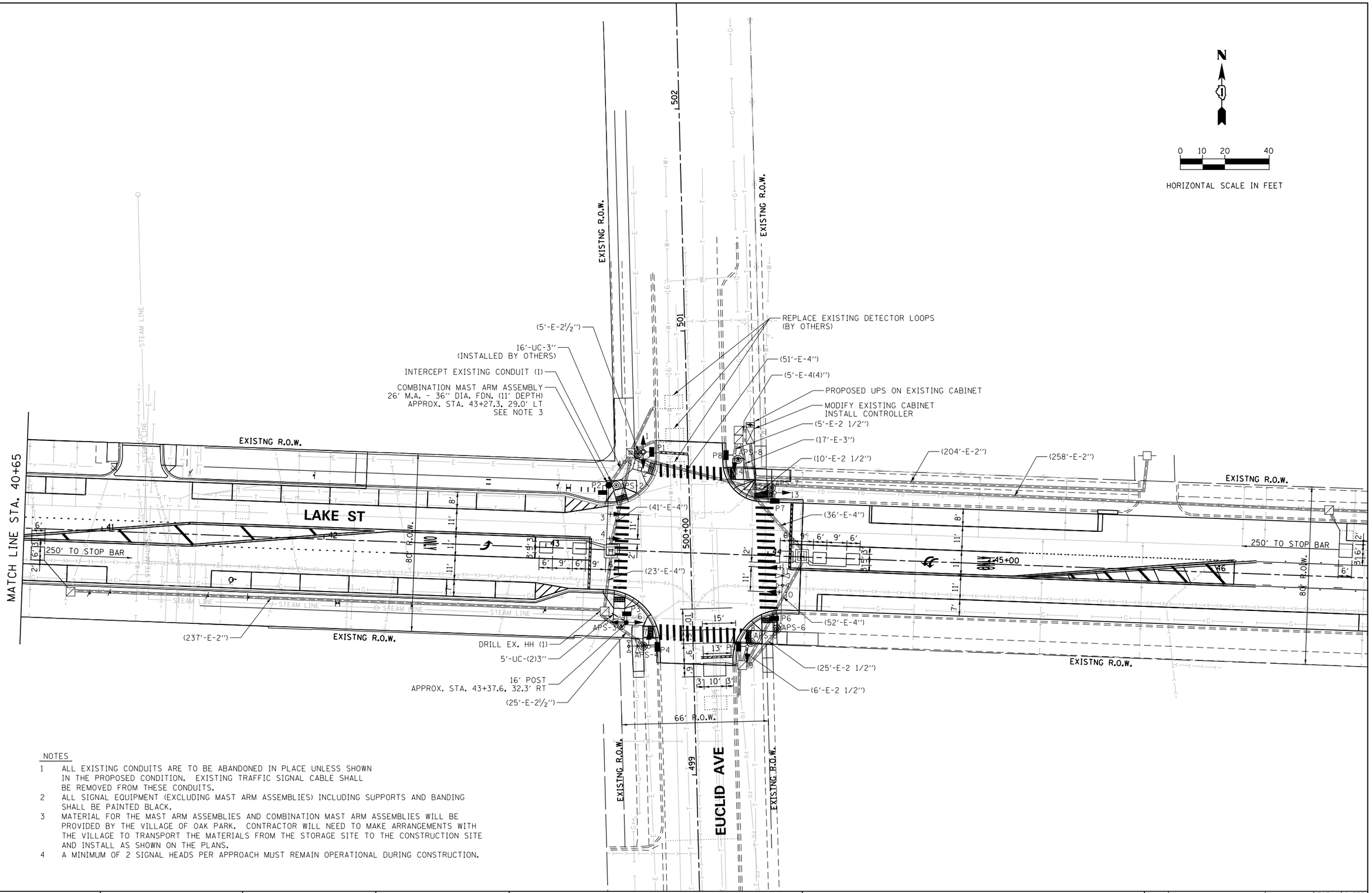
USER NAME = GGedemer	DESIGNED - SA	REVISED -	
	DRAWN - GKM	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -	
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
LAKE STREET AND EUCLID AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	252
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES

1 ALL EXISTING CONDUITS ARE TO BE ABANDONED IN PLACE UNLESS SHOWN IN THE PROPOSED CONDITION. EXISTING TRAFFIC SIGNAL CABLE SHALL BE REMOVED FROM THESE CONDUITS.

2 ALL SIGNAL EQUIPMENT (EXCLUDING MAST ARM ASSEMBLIES) INCLUDING SUPPORTS AND BANDING SHALL BE PAINTED BLACK.

3 MATERIAL FOR THE MAST ARM ASSEMBLIES AND COMBINATION MAST ARM ASSEMBLIES WILL BE PROVIDED BY THE VILLAGE OF OAK PARK. CONTRACTOR WILL NEED TO MAKE ARRANGEMENTS WITH THE VILLAGE TO TRANSPORT THE MATERIALS FROM THE STORAGE SITE TO THE CONSTRUCTION SITE AND INSTALL AS SHOWN ON THE PLANS.

4 A MINIMUM OF 2 SIGNAL HEADS PER APPROACH MUST REMAIN OPERATIONAL DURING CONSTRUCTION.

FILE NAME = 30_Euclid_ts_permit.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
LAKE STREET AND EUCLID AVENUE

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	253
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

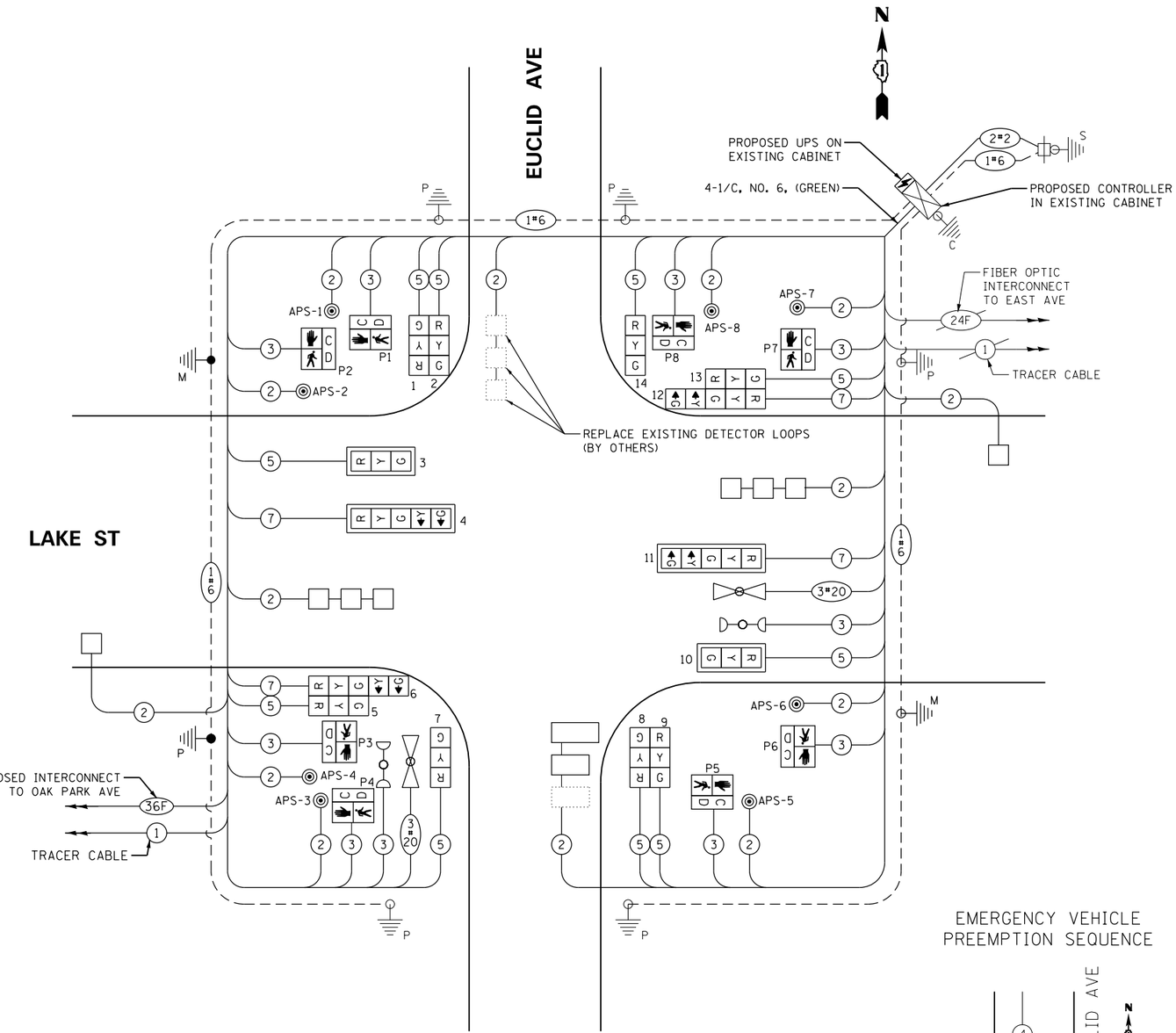
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	10
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1110
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1600
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1500
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	670
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1180
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	230
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	20
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE (INSTALL ONLY)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP REPLACEMENT	FOOT	264
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6750
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	440
ROD AND CLEAN EXISTING CONDUIT	FOOT	757
INTERCEPT EXISTING CONDUIT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM DUEL DETECTOR UNIT	EACH	1

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	14		11	50	77
(YELLOW)	14		20	5	14
(GREEN)	14		12	45	75.6
ARROW	8		10	10	8
PED. SIGNAL	8		20	100	16
CONTROLLER	1		100	100	100
ILLUM. SIGN	-		25	50	-
LUMINAIRE	-		-	50	-
VIDEO SYSTEM	1	150		-	-
UPS	1	25		100	25
ENERGY COSTS TO:				TOTAL =	315.6

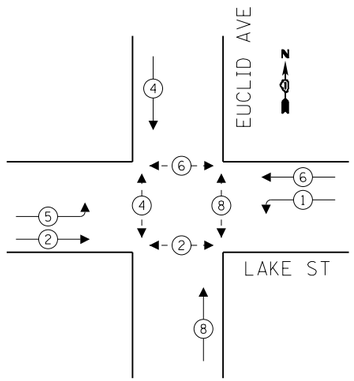
VILLAGE OF OAK PARK
123 Madison St.
Oak Park, IL 60302

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COM ED

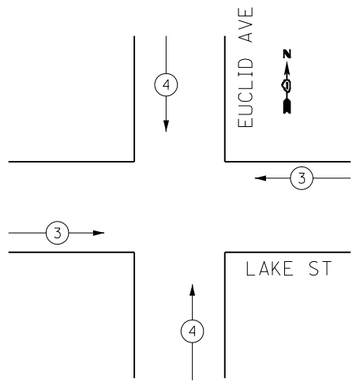


CABLE PLAN

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

FILE NAME = 31.Euclid_cable_perm.dgn

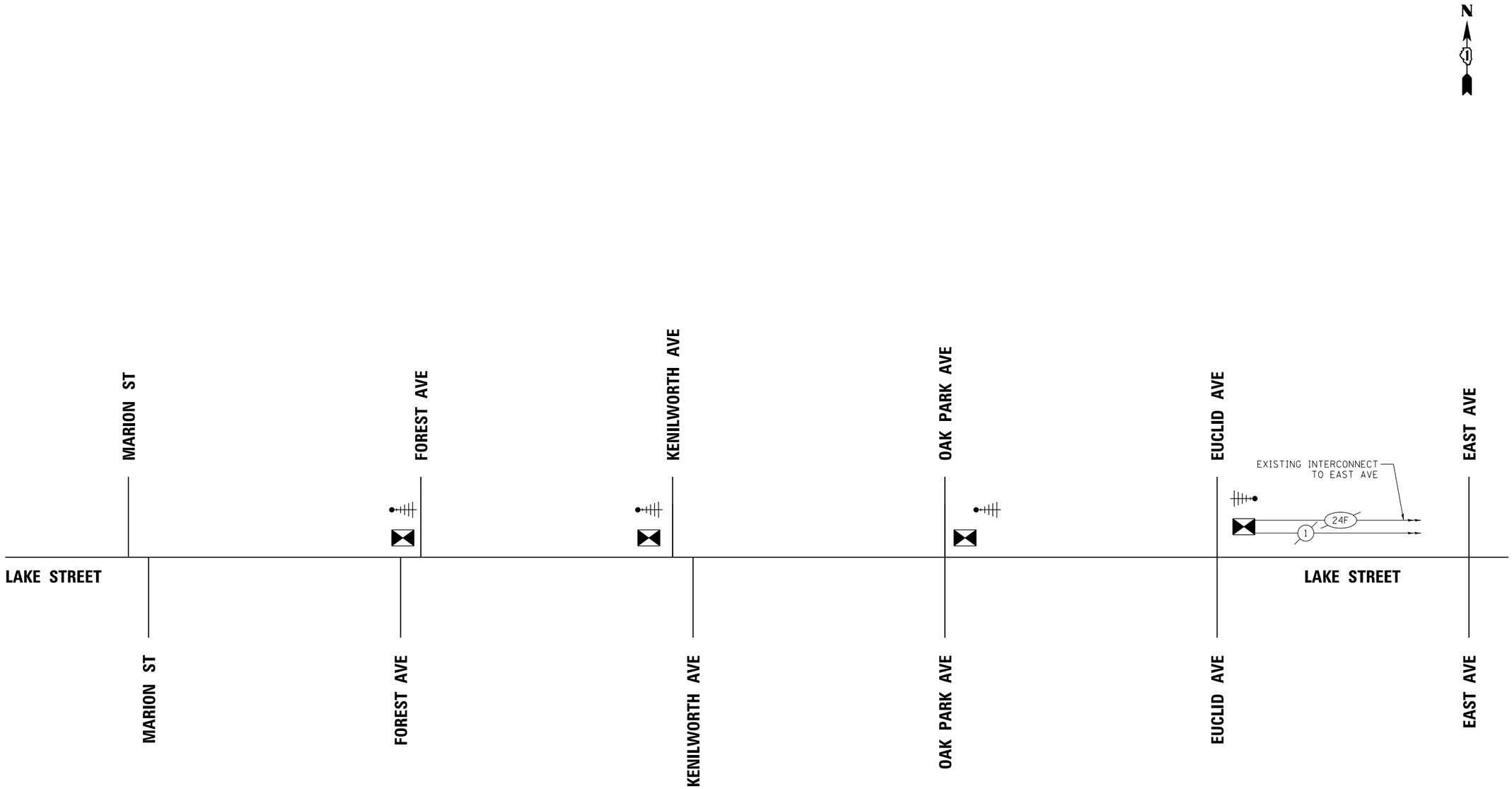
TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE STREET AND EUCLID AVENUE
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	254
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



FILE NAME = 32_Lake_interconnect_schematic_temp.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

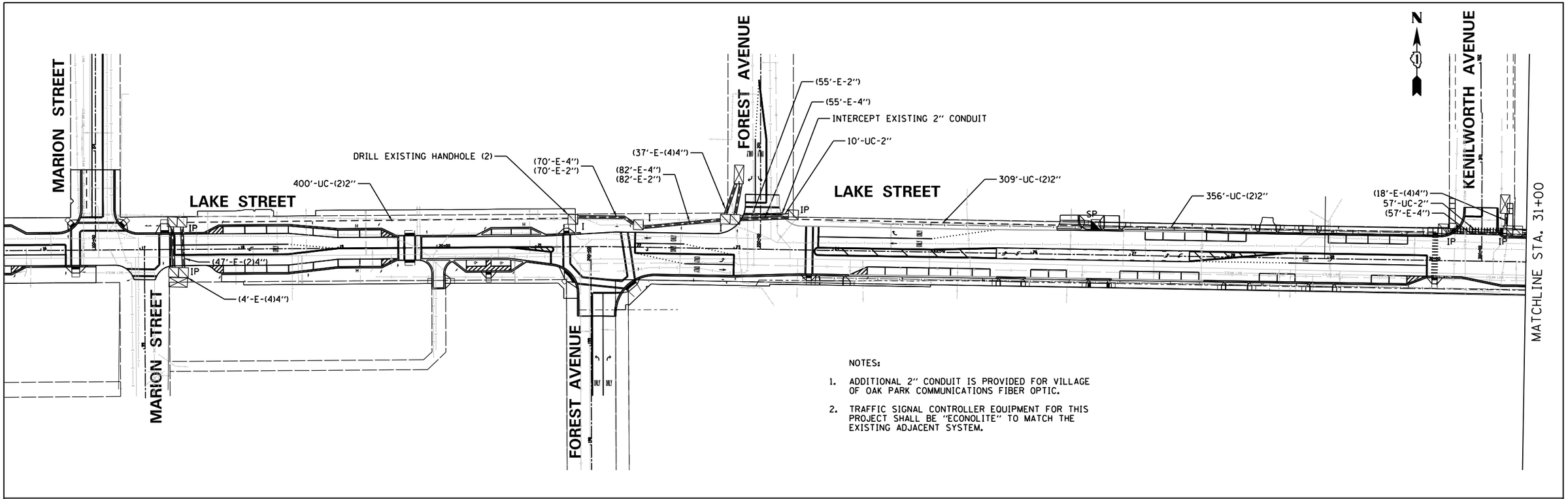
USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC – LAKE STREET
FROM MARION STREET TO EUCLID AVENUE

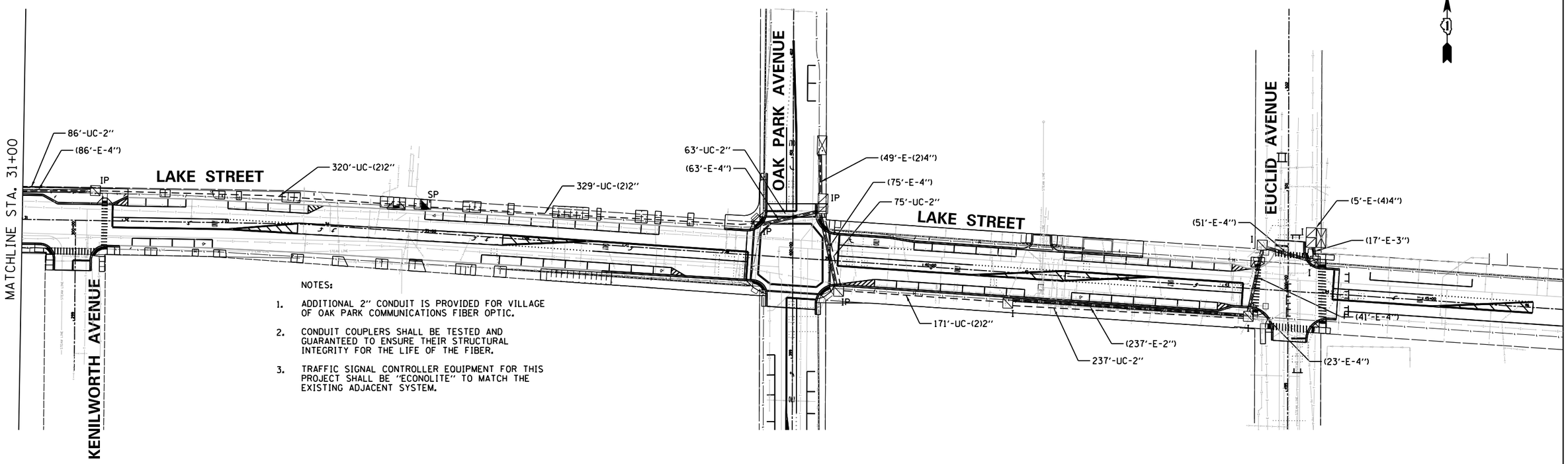
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	255
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. ADDITIONAL 2" CONDUIT IS PROVIDED FOR VILLAGE OF OAK PARK COMMUNICATIONS FIBER OPTIC.
2. TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



NOTES:

1. ADDITIONAL 2" CONDUIT IS PROVIDED FOR VILLAGE OF OAK PARK COMMUNICATIONS FIBER OPTIC.
2. CONDUIT COUPLERS SHALL BE TESTED AND GUARANTEED TO ENSURE THEIR STRUCTURAL INTEGRITY FOR THE LIFE OF THE FIBER.
3. TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = 33_Lake_interconnect.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

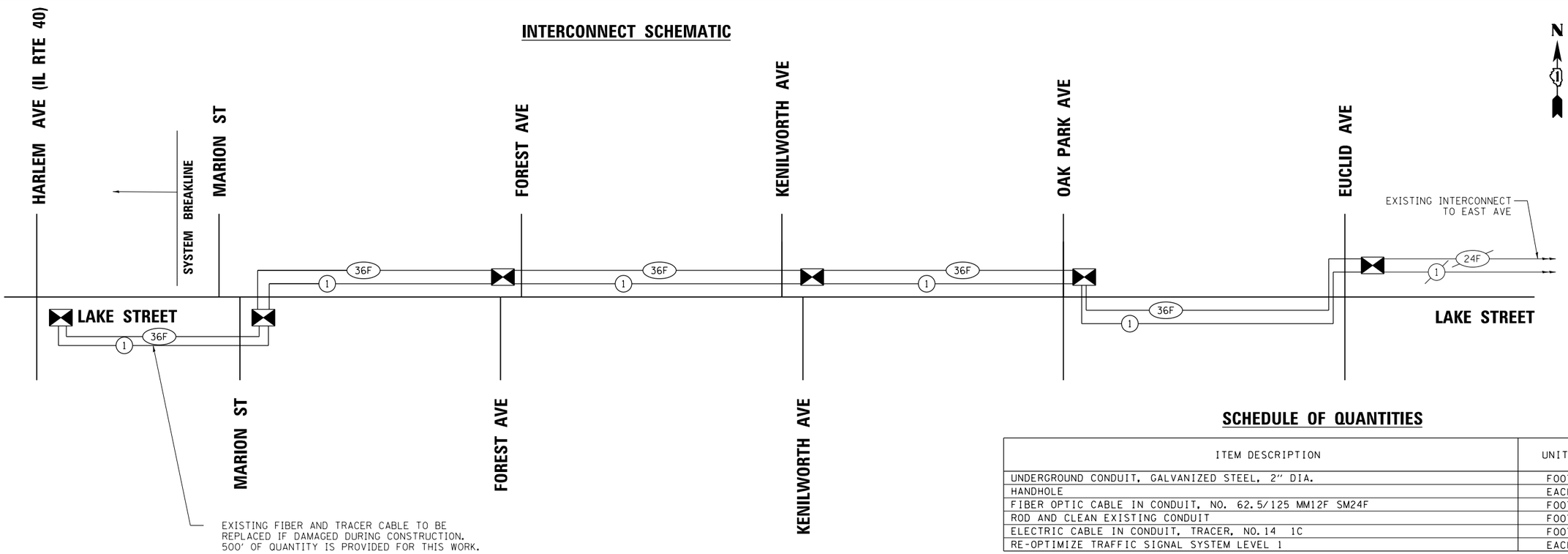
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN – LAKE STREET
FROM MARION STREET TO EUCLID AVENUE

SCALE: 1"=50' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	256
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

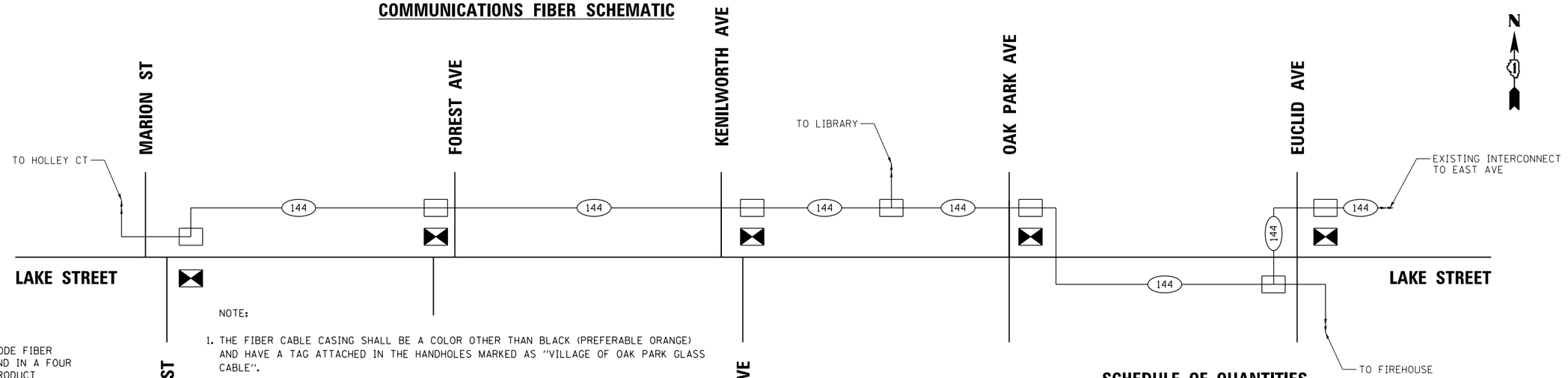
INTERCONNECT SCHEMATIC



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1885
HANDHOLE	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F SM24F	FOOT	3728
ROD AND CLEAN EXISTING CONDUIT	FOOT	500
ELECTRIC CABLE IN CONDUIT, TRACER, NO.14 1C	FOOT	3728
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

COMMUNICATIONS FIBER SCHEMATIC



LEGEND

- ▭ - HANDHOLE
- (144) - SINGLE MODE FIBER 144 STRAND IN A FOUR CELL MICRODUCT

NOTE:

1. THE FIBER CABLE CASING SHALL BE A COLOR OTHER THAN BLACK (PREFERABLE ORANGE) AND HAVE A TAG ATTACHED IN THE HANDHOLES MARKED AS "VILLAGE OF OAK PARK GLASS CABLE".
2. TRACER WIRE CAPABILITY IS REQUIRED WITH ALL FIBER SEGMENTS. TERMINAL ACCESS FOR TRACER WIRE IS REQUIRED AT EACH VAULT, HAND HOLE AND ANCHOR SITE. USE OF MICRODUCT WITH EMBEDDED TRACER WIRE IS DESIRED.
3. EACH HANDHOLE OR MANHOLE SHALL HAVE A SLACK OF 20' OR AS DIRECTED BY ENGINEER.
4. THIS DRAWING IS INTENDED TO BE USED AS A GUIDE AND CAN BE MODIFIED BASED ON DIRECTION BY VILLAGE OF OAK PARK.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2413
ELECTRIC CABLE IN CONDUIT, TRACER, NO.14 1C	FOOT	5000
DRILL EXISTING HANDHOLE	EACH	2
INTERCEPT EXISTING CONDUIT	EACH	1
FIBER OPTIC CABLE 144 FIBERS, SINGLE MODE	FOOT	4470
FIBER OPTIC INNERDUCT 1¼" DIA.	FOOT	4000

FILE NAME = 34_Lake_interconnect_schematic.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = GGedemer	DESIGNED - SA	REVISED -
	DRAWN - GKM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - GJG	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT AND COMMUNICATIONS FIBER SCHEMATIC
LAKE STREET
FROM MARION STREET TO EUCLID AVENUE

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	257
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

ELECTRICAL NOTES

PART 1: GENERAL

A. DESCRIPTION

PROVIDE ALL REQUIREMENTS AND CRITERIA FOR SAFETY AND RELIABILITY TO FURNISH AND INSTALL COMPLETE OPERATING ELECTRICAL SYSTEM, INCLUDING MATERIALS, LABOR, NECESSARY EQUIPMENT AS HEREIN SPECIFIED. COMPLY WITH LOCAL CODES, NATIONAL ELECTRIC CODE, IDOT AND ALL APPLICABLE CODES AND STANDARDS. THE EQUIPMENT AND INSTALLATION SHALL CONFIRM WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, INCLUDING LATEST REVISION AND SUPPLEMENTAL SPECIFICATIONS, AS WELL AS SPECIAL PROVISIONS.

B. SCOPE OF WORK

1. CONTRACTOR SHALL FURNISH, INSTALL, AND TEST COMPLETE STREET LIGHTING SYSTEM WITH ALL LIGHTING POLES, LUMINAIRES, FOUNDATIONS, LIGHTING CONTROL CABINET, CONDUITS, HANGERS, SUPPORTS, DEVICES, WIRING, ETC., REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. AFTER INSTALLATION, CONTRACTOR SHALL COMPLETELY TEST ALL COMPONENTS IN COMPLIANCE WITH IDOT STANDARDS TO ENSURE COMPLETE FUNCTIONAL INSTALLATION.

2. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS SET FORTH IN THE LOCAL GOVERNING CODE. THE WORK SHALL ALSO MEET THE LAWS AND ORDINANCE REQUIRED BY THOSE AGENCIES HAVING JURISDICTION.

3. CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS. PRIOR TO SUBMITTING THE PROPOSAL, INCLUDE ANY RELOCATION AND/OR ALTERATIONS TO THE EXISTING ELECTRICAL SYSTEM, COMPONENTS OR EQUIPMENT REQUIRED TO ACCOMODATE THE NEW CONSTRUCTION.

4. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED TO PERFORM HIS WORK. PREPARE AND SUBMIT TO THE AUTHORITIES ANY AND ALL DATA, DRAWINGS AND DETAILS REQUIRED FOR APPROVAL BEFORE COMMENCING THE INSTALLATION.

5. MAINTAIN EXISTING STREET LIGHTING SYSTEM OPERATION DURING CONSTRUCTION UNTIL NEW CONSTRUCTION OF STREET LIGHTING SYSTEM IS COMPLETED. MAINTAIN EXISTING LIGHTING AS TEMPORARY LIGHTING DURING THE CONSTRUCTION PERIOD. REMOVE SAME UPON COMPLETION OF THE PROJECT.

6. CONTRACTOR SHALL COORDINATE WORK WITH ALL TRADES AND AVOID CONFLICT AND DELAYS.

7. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE NEW WORK. LACK OF NOTIFICATION SHALL INDICATE THAT NO DISCREPANCIES OR CONFLICTS EXIST.

8. ALL LIGHT POLES SHALL BE NON-BREAKAWAY TYPE.

9. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES, INCLUDING ELECTRIC, WATER, GAS, SEWER, CABLE, ETC.

10. RIGID STEEL CONDUIT SHALL BE PUSHED UNDER STREET OR DRIVEWAY AND EXTENDED 3'-0" ON EACH SIDE.

11. AS PART OF THIS WORK, OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ANY ITEM REMOVED AS PART OF THIS PROJECT. DISPOSE OF ALL OTHERS. ANY UNUSED EQUIPMENT OR WIRING WILL NOT BE ALLOWED TO BE ABANDONED IN PLACE.

12. RED TAPE OR MARKING TAPE SHALL BE 10" BELOW GRADE TO MARK ELECTRICAL CONDUIT ROUTING.

13. AFTER CONSTRUCTION OF NEW LIGHTING SYSTEM, REMOVE OLD LIGHT POLES, FOUNDATIONS AND WIRING, AND ABANDON CONDUIT IN PLACE.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INCURRED IN ANY AREA OF THE PROJECT SUCH AS PAVEMENT, DRIVEWAYS AND SIDEWALKS AND SHALL RESTORE THEM TO THEIR ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER. LANDSCAPED AREAS SHALL BE RESTORED AND DAMAGED PLANT MATERIALS REPLACED TO THE SATISFACTION OF THE ENGINEER.

15. LIGHT POLES SHALL BE LOCATED SO AS TO PROVIDE UNOBSTRUCTED WALKWAYS FOR PEDESTRIANS AND SHALL MEET ADA REQUIREMENTS.

16. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UNDERGROUND AND OVERHEAD UTILITY CONFLICTS AND ENSURE ADEQUATE CLEARANCES BETWEEN UTILITIES AND NEW LIGHTING SYSTEM.

17. GROUND ROD MATERIAL AND INSTALLATION IS INCLUDED AS PART OF THE ELECTRICAL EQUIPMENT AND/OR POLE FOUNDATION PAY ITEMS. REFER TO ELECTRICAL DETAILS OF CABINETS AND/OR POLE FOUNDATION FOR MORE INFORMATION.

C. GUARANTEE

1. GUARANTEE IN WRITING ALL ELECTRICAL EQUIPMENT FOR A PERIOD OF ONE YEAR FOLLOWING OF SUBSTANTIAL COMPLETION. STATE THE ADDITIONAL AMOUNT FOR A FIVE YEAR FULL GUARANTEE AND FULL MAINTENANCE CONTRACT OF ELECTRICAL SYSTEM.

2. ALL APPARATUS SHALL BE BUILT AND INSTALLED SO AS TO DELIVER THE FULL RATED CAPACITY AT THE EFFICIENCY FOR WHICH IT WAS DESIGNED.

D. CONSTRUCTION PHASE SUBMITTALS

SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. PREPARE AND PROVIDE THE ENGINEER WITH A COMPLETE SET OF CIRCUITED "RECORD" DRAWINGS AT PROJECT COMPLETION. SUCH DRAWINGS SHALL BE SUBMITTED ON A CLEAR AND LEGIBLE REPRODUCIBLE FORM.

PART 2: PRODUCTS

A. QUALITY LEVEL

ALL MATERIAL AND EQUIPMENT USED FOR THIS PROJECT SHALL BE UL LISTED AND APPROVED FOR THE INTENDED APPLICATIONS UNLESS OTHERWISE NOTED.

B. MATERIAL

1. UNIT DUCT SHALL BE TYPE MC 600 VOLT, EPR RATED INSULATION, PVC JACKET, STEEL INTERLOCK ARMOR, COPPER CONDUCTORS AND COLOR CODED.

2. SITE LIGHTING BRANCH CIRCUITS SHALL BE #6 AWG MINIMUM, UNLESS OTHERWISE NOTED.

PART 3: EXECUTION

1. PROVIDE A COMPLETE PROPERLY OPERATING SYSTEM FOR EACH ITEM OF EQUIPMENT CALLED FOR UNDER THESE NOTES. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS, THE BEST INDUSTRY PRACTICES AND UNDER COMPETENT SUPERVISION AT ALL TIMES.

2. PRIOR TO INSPECTION TO DETERMINE SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL OPERATE ALL ELECTRICAL SYSTEMS TO DEMONSTRATE THAT THE INSTALLATION AND PERFORMANCE OF THE SYSTEM CONFORM TO THE REQUIREMENTS SPECIFIED ABOVE AND ON THE DRAWINGS.

LEGEND

- PROPOSED COMBINATION LIGHT POLE
- PROPOSED DECORATIVE PEDESTRIAN POLE
- PROPOSED DECORATIVE STREET LIGHT POLE WITH MID MOUNT GLOBE LUMINAIRE
- PROPOSED GFCI OUTLET IN TREE PIT OR RAISED PLANTER
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- PROPOSED LIGHTING CONTROLLER
- PROPOSED CABLE IN CONDUIT (SIZE AS NOTED)
- E EXISTING COMBINATION LIGHT POLE
- E EXISTING PEDESTRIAN LIGHT POLE TO REMAIN
- E EXISTING STREET LIGHT POLE TO REMAIN
- R EXISTING PEDESTRIAN LIGHT POLE TO BE REMOVED
- R EXISTING PEDESTRIAN BOLLARD TO BE REMOVED
- R EXISTING STREET LIGHT POLE TO BE REMOVED
- R EXISTING LIGHTING CONTROLLER TO BE REMOVED
- —E— EXISTING CABLE IN CONDUIT TO BE REMOVED, ABANDON CONDUIT IN PLACE
- EXISTING HANDHOLE
- EXISTING LIGHTING CONTROLLER
- — EXISTING CABLE IN CONDUIT TO REMAIN
- [1] UNIT DUCT, 600V 2-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), IN 1 1/4" DIA. POLYETHYLENE
- [2] PUSHED UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
- [3] ELECTRIC CABLE, 600V 2-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), IN 1" DIA. POLYETHYLENE
- [4] ELECTRIC CABLE, 600V 2-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), IN 1 1/4" DIA. COILABLE NON-METALLIC CONDUIT
- [5] ELECTRIC CABLE, 600V 2-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), IN 1" DIA. COILABLE NON-METALLIC CONDUIT
- [6] ELECTRIC CABLE, 600V 2-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), IN 2" DIA. COILABLE NON-METALLIC CONDUIT
- [7] ELECTRIC CABLE, 600V 2-1C NO. 10, 1/C NO. 10 GROUND (XLP-TYPE USE), IN 1" DIA. COILABLE NON-METALLIC CONDUIT
- [8] PUSHED UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
- [9] UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. (BY OTHERS)

FILE NAME = sht-0 Lighting Plans.DN-Lake-00.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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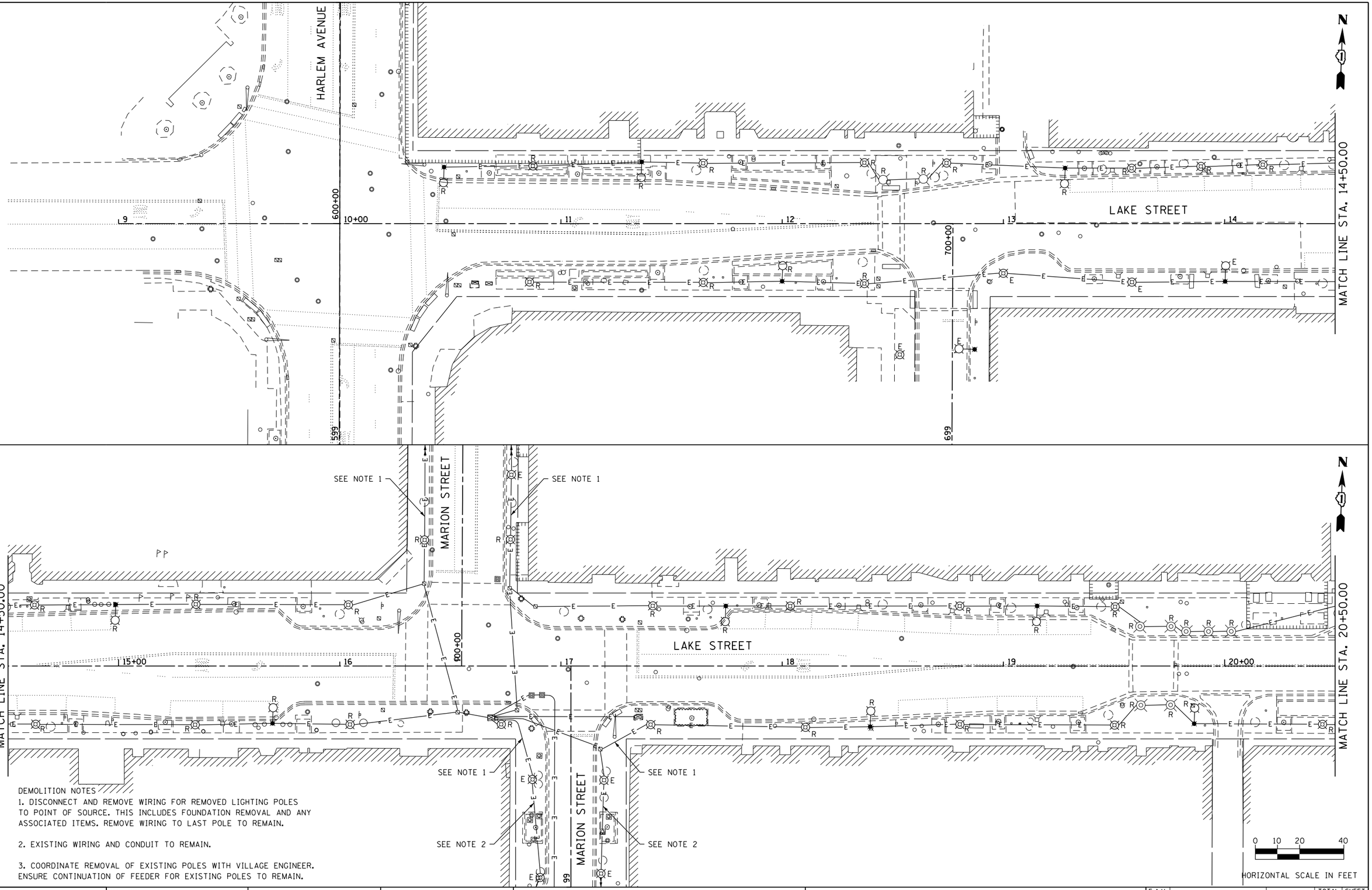
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING GENERAL NOTES
LAKE STREET

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	258
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



DEMOLITION NOTES

1. DISCONNECT AND REMOVE WIRING FOR REMOVED LIGHTING POLES TO POINT OF SOURCE. THIS INCLUDES FOUNDATION REMOVAL AND ANY ASSOCIATED ITEMS. REMOVE WIRING TO LAST POLE TO REMAIN.

2. EXISTING WIRING AND CONDUIT TO REMAIN.

3. COORDINATE REMOVAL OF EXISTING POLES WITH VILLAGE ENGINEER. ENSURE CONTINUATION OF FEEDER FOR EXISTING POLES TO REMAIN.

FILE NAME = sht-Lighting Removal-Lake-01.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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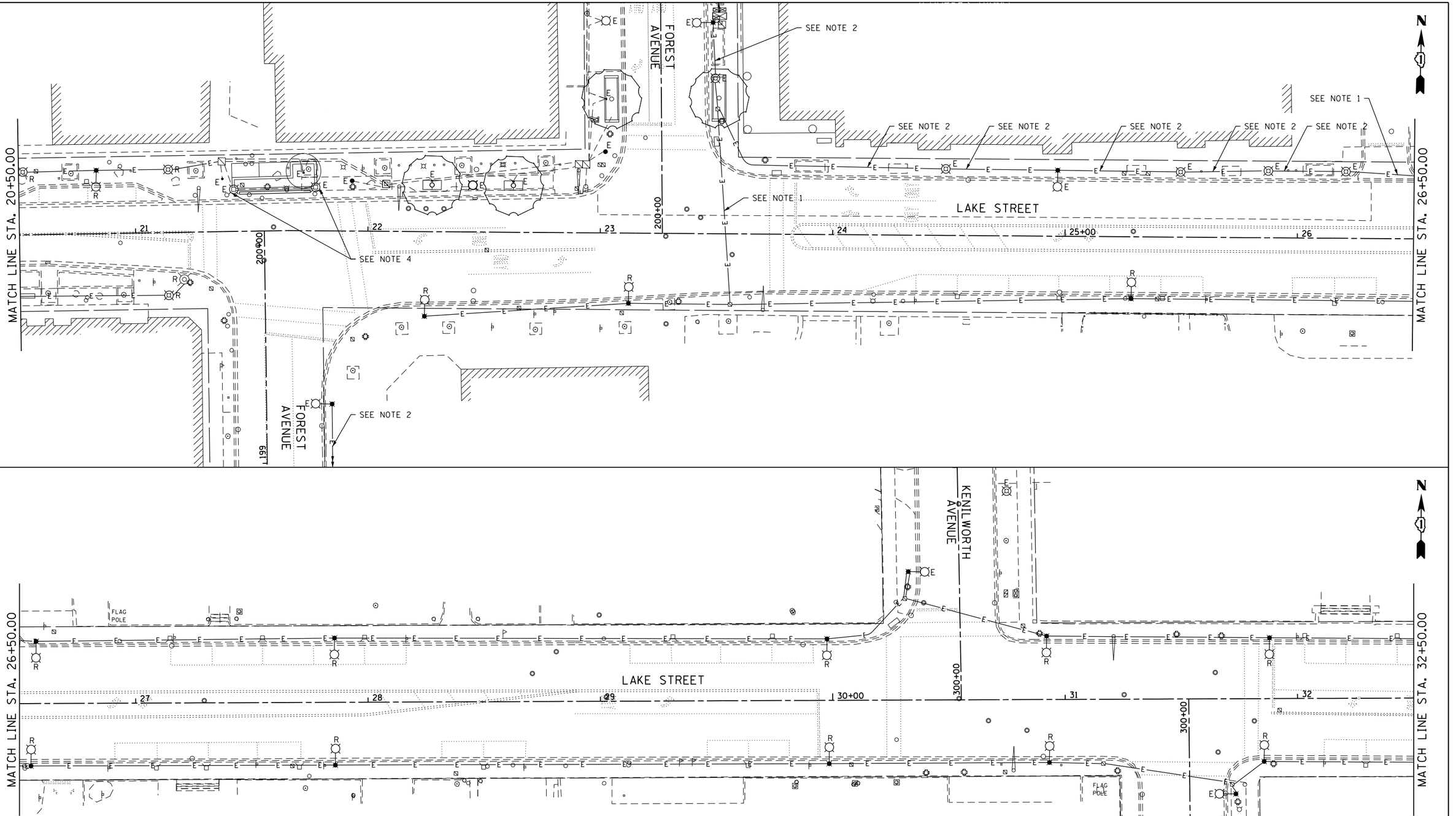
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN – 1
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	259
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



DEMOLITION NOTES

1. DISCONNECT AND REMOVE WIRING FOR REMOVED LIGHTING POLES TO POINT OF SOURCE. THIS INCLUDES FOUNDATION REMOVAL AND ANY ASSOCIATED ITEMS. REMOVE WIRING TO LAST POLE TO REMAIN.

2. EXISTING WIRING AND CONDUIT TO REMAIN.

3. COORDINATE REMOVAL OF EXISTING POLES WITH VILLAGE ENGINEER. ENSURE CONTINUATION OF FEEDER FOR EXISTING POLES TO REMAIN.

DEMOLITION NOTES

4. REMOVE AND STORE EXISTING PEDESTRIAN POLE FOR INSTALLATION OF A 3' TALL GRANITE COLUMN. THIS WORK SHALL BE PAID FOR UNDER PAY ITEM "RELOCATE EXISTING LIGHTING UNIT". NO ADDITIONAL PAYMENT WILL BE MADE. SEE LANDSCAPING PLANS FOR ADDITIONAL DETAIL.

FILE NAME = sht-2 Lighting Removal-Lake-02.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

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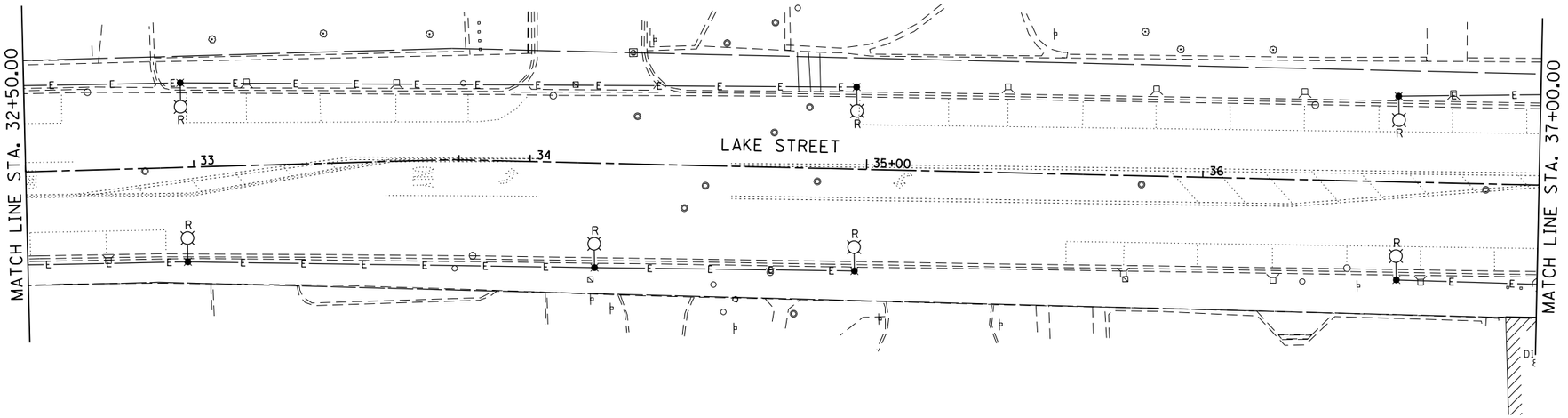
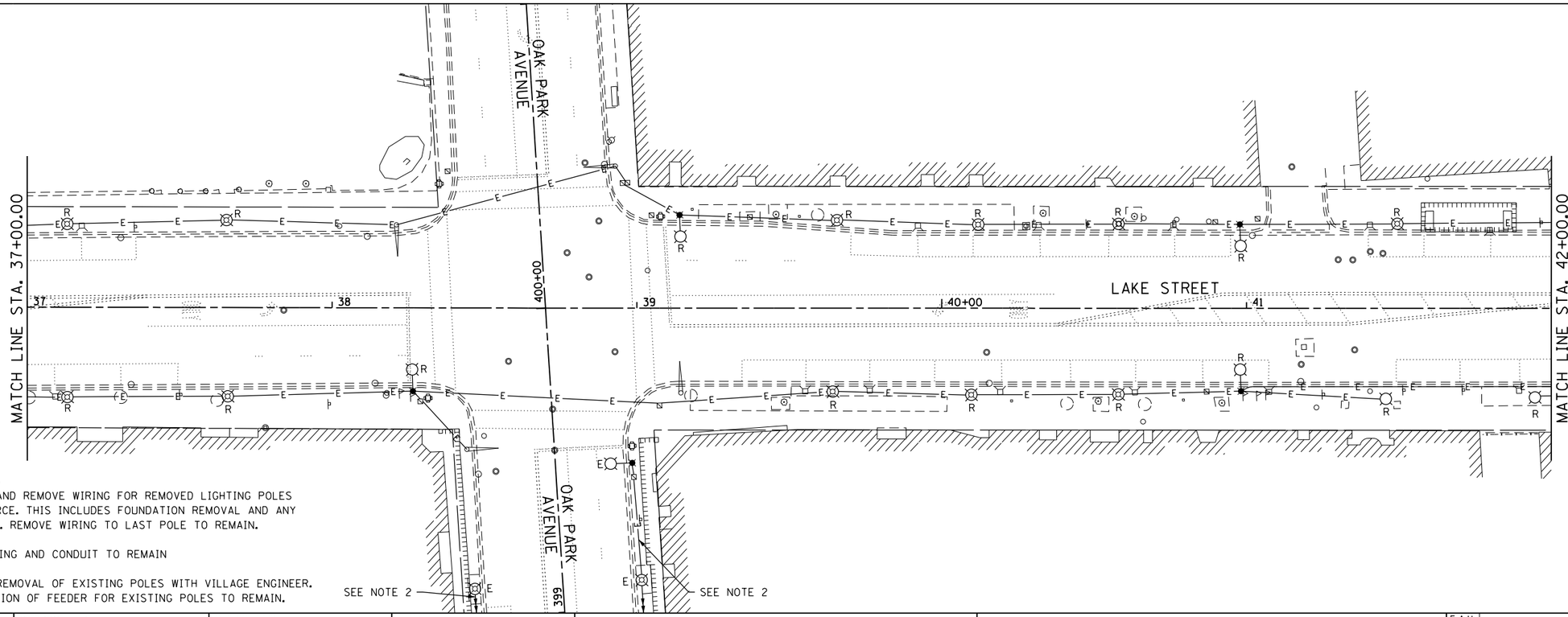
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN – 2
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	260
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			





DEMOLITION NOTES

1. DISCONNECT AND REMOVE WIRING FOR REMOVED LIGHTING POLES TO POINT OF SOURCE. THIS INCLUDES FOUNDATION REMOVAL AND ANY ASSOCIATED ITEMS. REMOVE WIRING TO LAST POLE TO REMAIN.

2. EXISTING WIRING AND CONDUIT TO REMAIN

3. COORDINATE REMOVAL OF EXISTING POLES WITH VILLAGE ENGINEER. ENSURE CONTINUATION OF FEEDER FOR EXISTING POLES TO REMAIN.

FILE NAME = sht-3 Lighting Removal-Lake-03.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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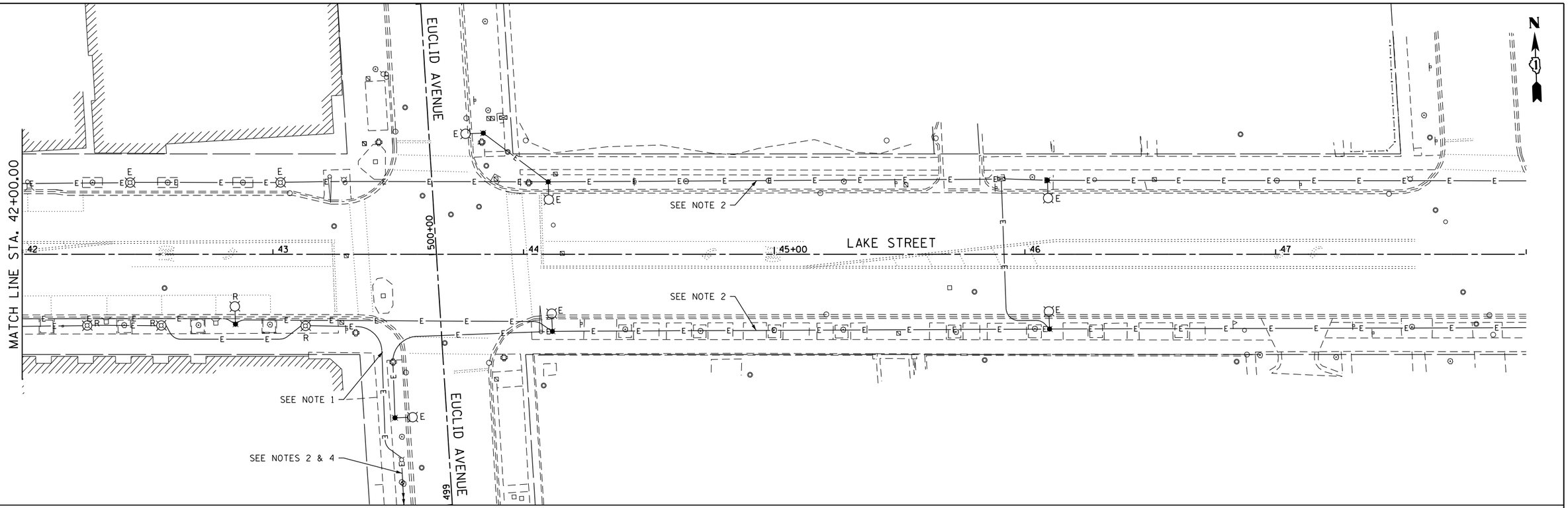
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN – 3
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	261
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



DEMOLITION NOTES

1. DISCONNECT AND REMOVE WIRING FOR REMOVED LIGHTNG POLES TO POINT OF SOURCE. THIS INCLUDES FOUNDATION REMOVAL AND ANY ASSOCIATED ITEMS. REMOVE WIRING TO LAST POLE TO REMAIN.

2. EXISTING WIRING AND CONDUIT TO REMAIN.

3. COORDINATE REMOVAL OF EXISTING POLES WITH VILLAGE ENGINEER. ENSURE CONTINUATION OF FEEDER FOR EXISTING POLES TO REMAIN.

4. TO PHOTOCELL MOUNTED TO UTILITY POLE IN ALLEY.

0 10 20 40

HORIZONTAL SCALE IN FEET

FILE NAME = sht-4 Lighting Removal-Lake-04.dgn

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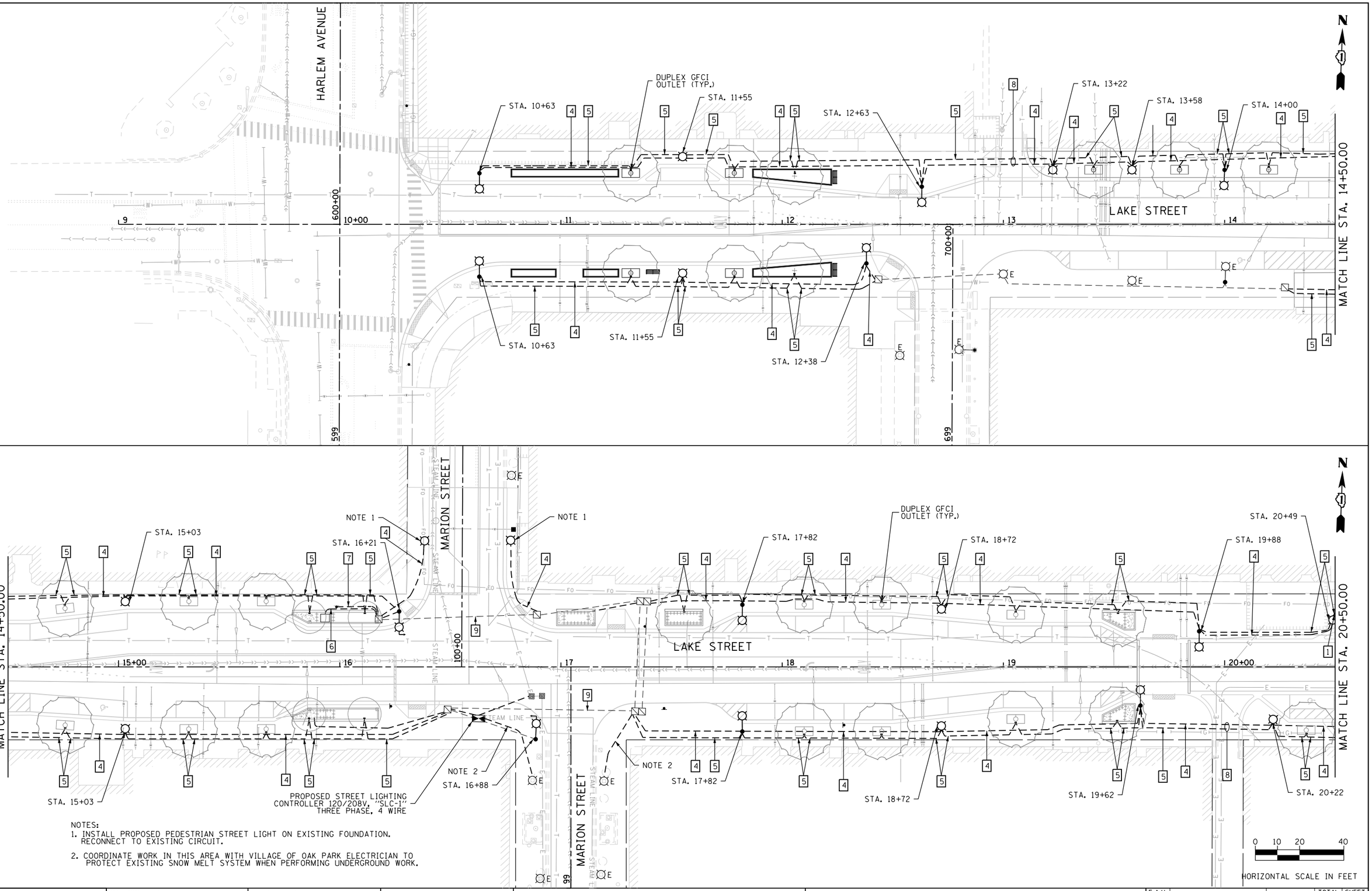
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN – 4
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	262
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. INSTALL PROPOSED PEDESTRIAN STREET LIGHT ON EXISTING FOUNDATION. RECONNECT TO EXISTING CIRCUIT.
2. COORDINATE WORK IN THIS AREA WITH VILLAGE OF OAK PARK ELECTRICIAN TO PROTECT EXISTING SNOW MELT SYSTEM WHEN PERFORMING UNDERGROUND WORK.

FILE NAME = sht-6 Lighting Plans-Lake-01.dgn

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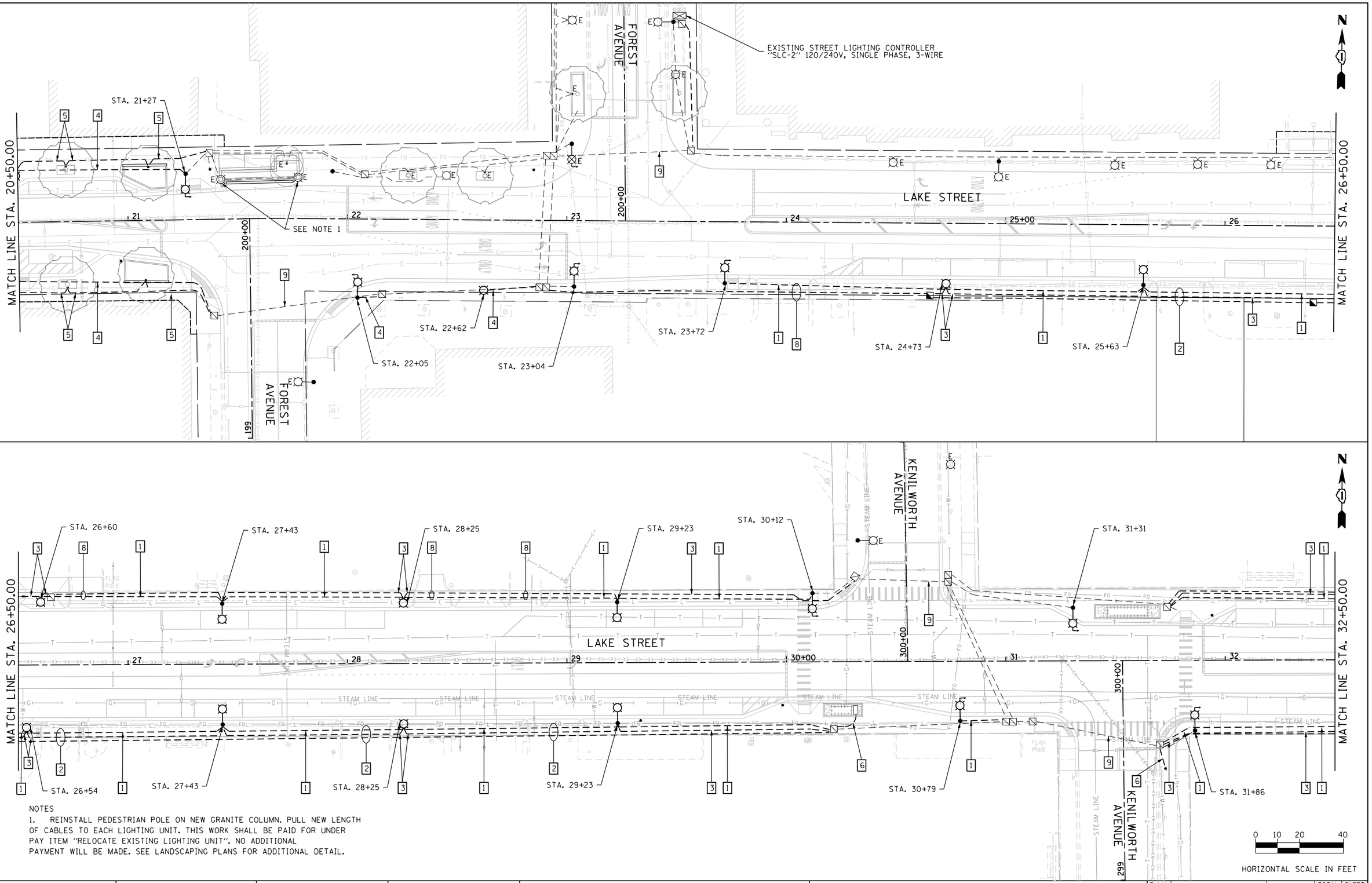
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING INSTALLATION PLAN – 1
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	263
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES

1. REINSTALL PEDESTRIAN POLE ON NEW GRANITE COLUMN. PULL NEW LENGTH OF CABLES TO EACH LIGHTING UNIT. THIS WORK SHALL BE PAID FOR UNDER PAY ITEM "RELOCATE EXISTING LIGHTING UNIT". NO ADDITIONAL PAYMENT WILL BE MADE. SEE LANDSCAPING PLANS FOR ADDITIONAL DETAIL.

FILE NAME = sht-7 Lighting Plans-Lake-02.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

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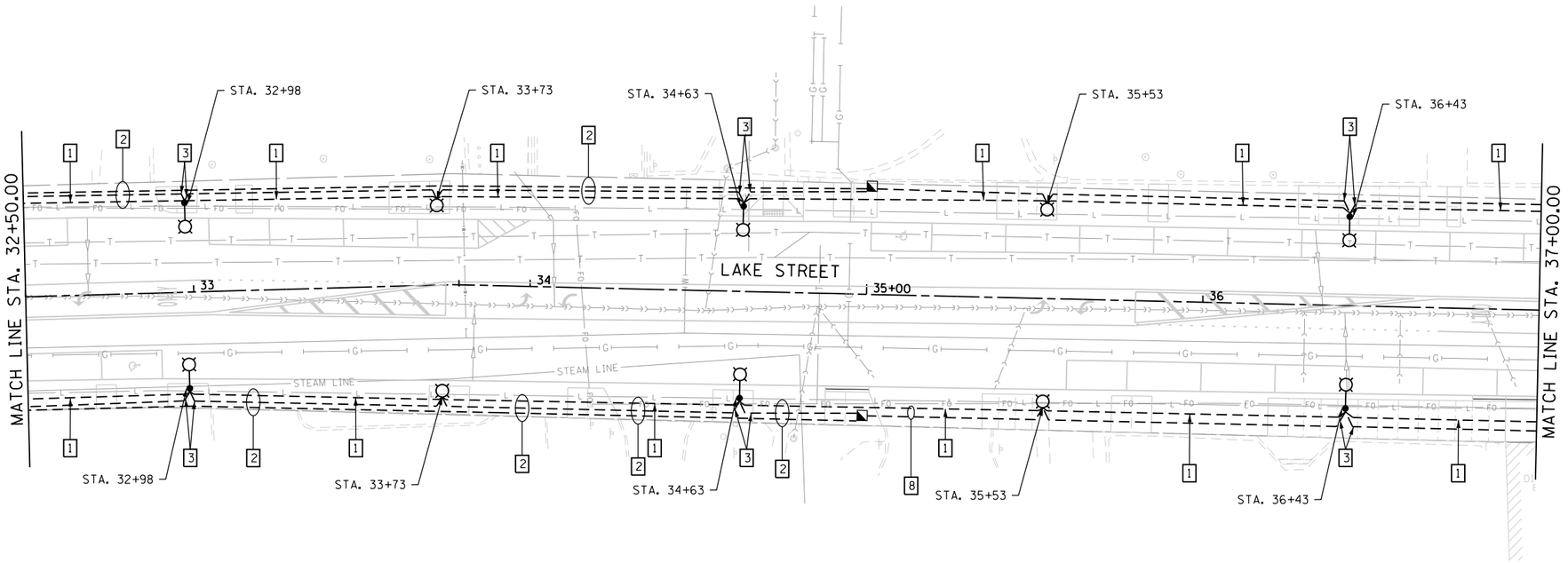
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

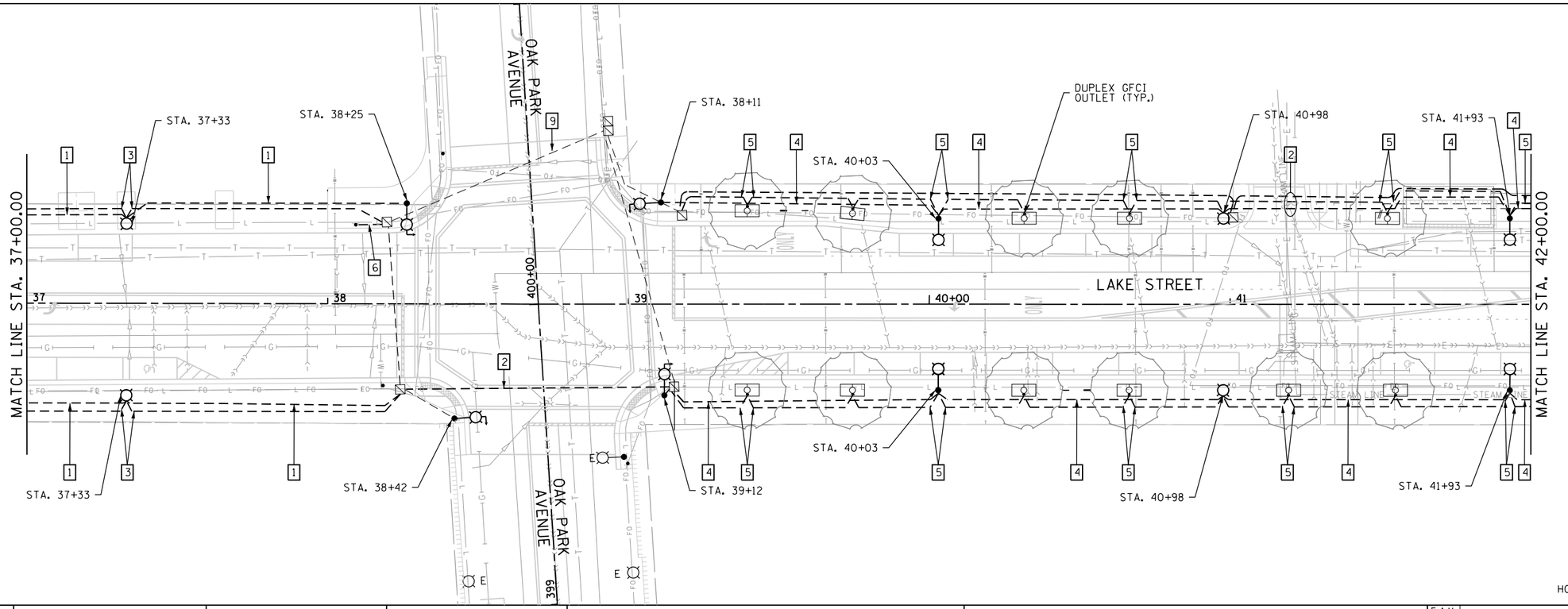
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING INSTALLATION PLAN – 2
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	264
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			





0 10 20 40

HORIZONTAL SCALE IN FEET

FILE NAME = sht-8 Lighting Plans-Lake-83.dgn

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Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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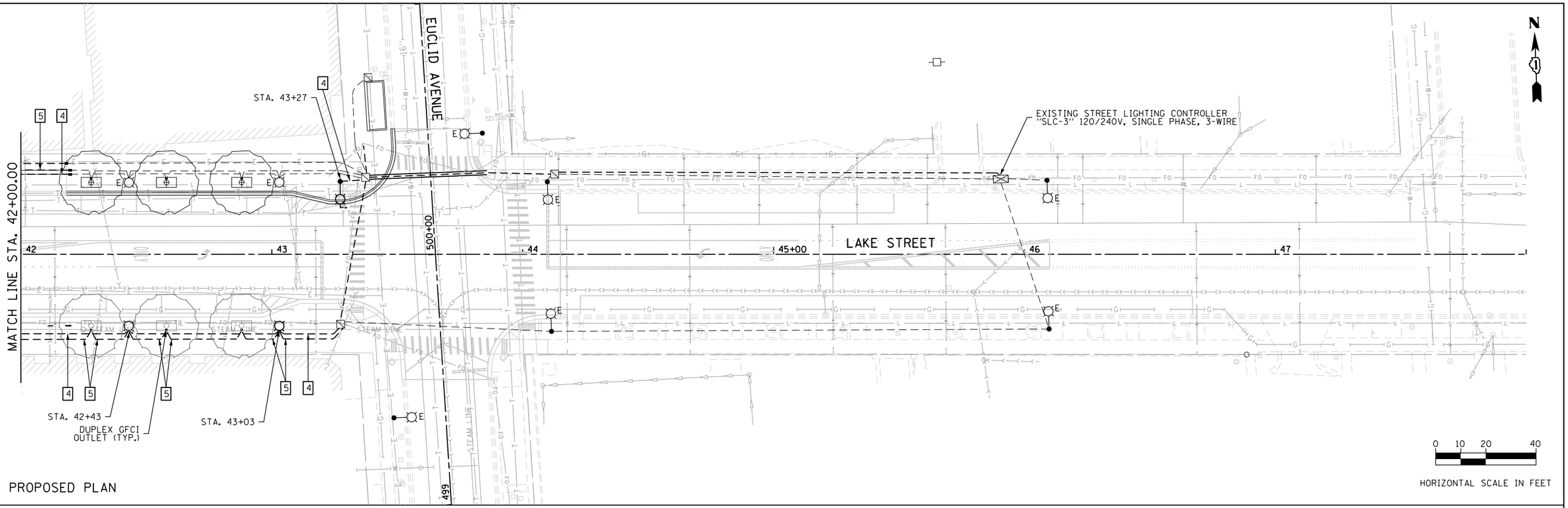
PLOT SCALE = 40.0000 ' / in.	CHECKED MR	REVISED -
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING INSTALLATION PLAN – 3
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	265
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



PROPOSED PLAN

FILE NAME = sht-9 Lighting Plans-Lake-04.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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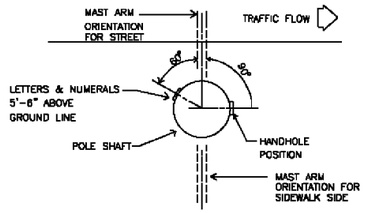
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

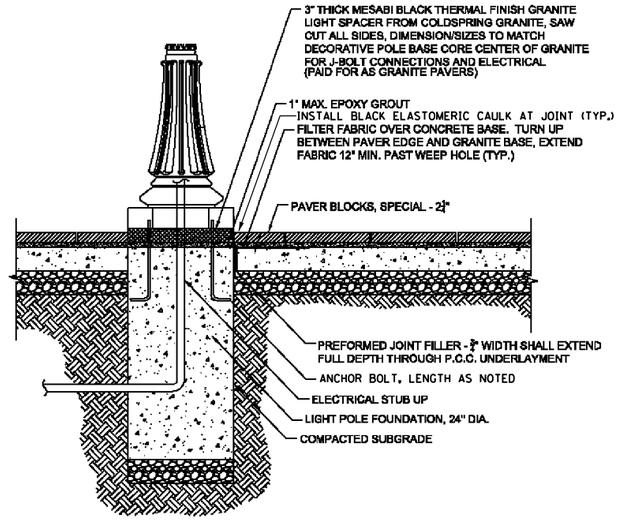
LIGHTING INSTALLATION PLAN – 4
LAKE STREET

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

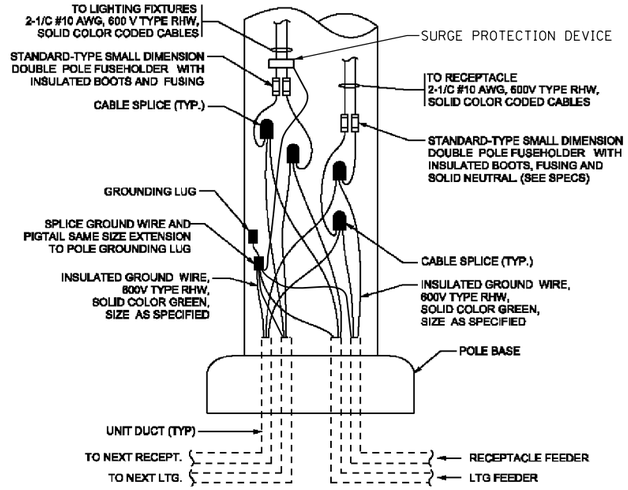
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	266
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



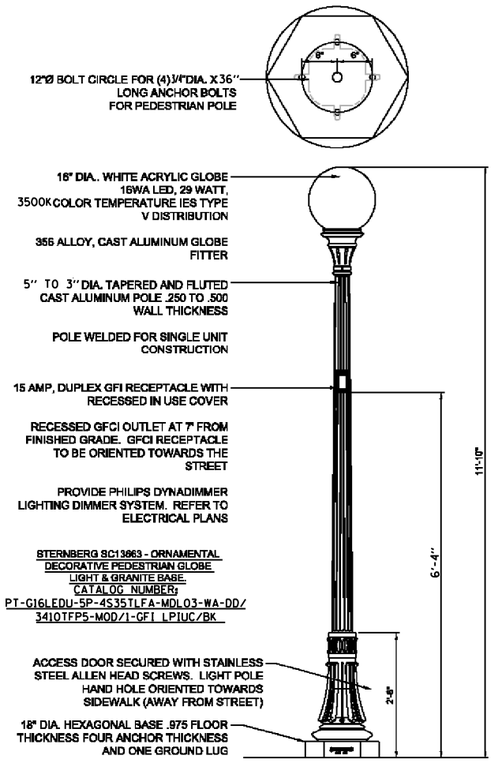
1 HANDHOLE AND POLE TAG ORIENTATION
NTS



2 LIGHT POLE BASE DETAIL
NTS

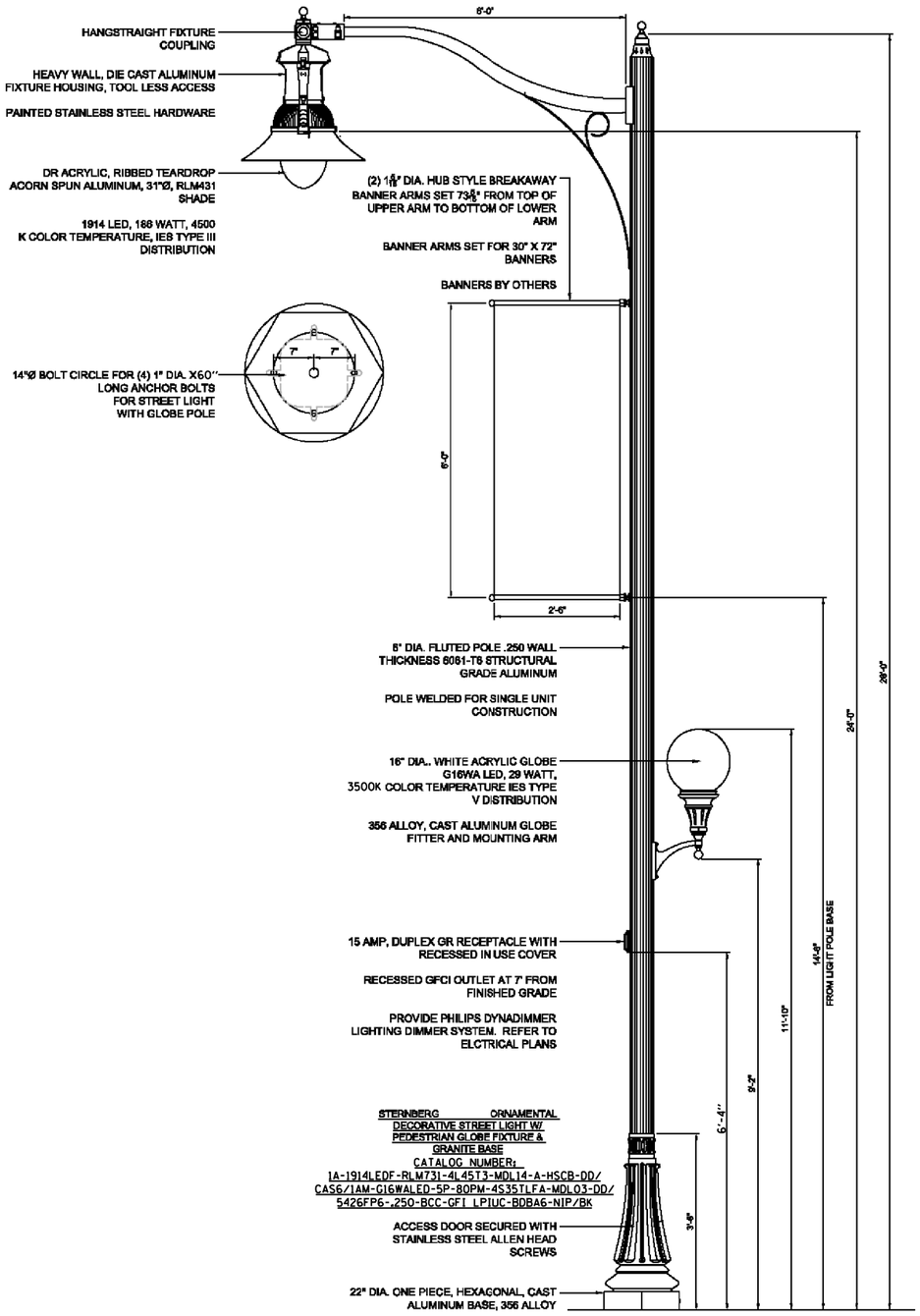


4 POLE WIRING DETAIL
NTS



7' PEDESTRIAN ST LIGHT
CATALOG NUMBER:
PT-G16LEDU-5P-4S35TLFA-MDL03-WA-DD/ 3407TFP5-MOD/1-GFI LPIUC/BK

5 PEDESTRIAN ST LIGHT
NTS



6 ORNAMENTAL LIGHT UNIT, COMPLETE
NTS

FILE NAME = sht-10 Lighting Plans_Details-Lake-01.dgn

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = mkucinas	DESIGNED MK	REVISED -
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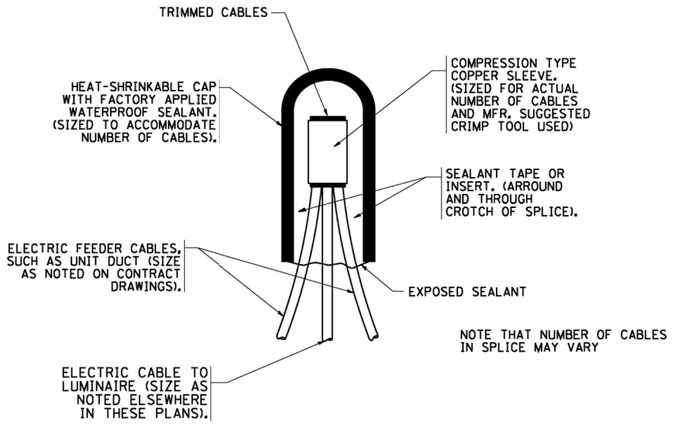
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS – 1
LAKE STREET

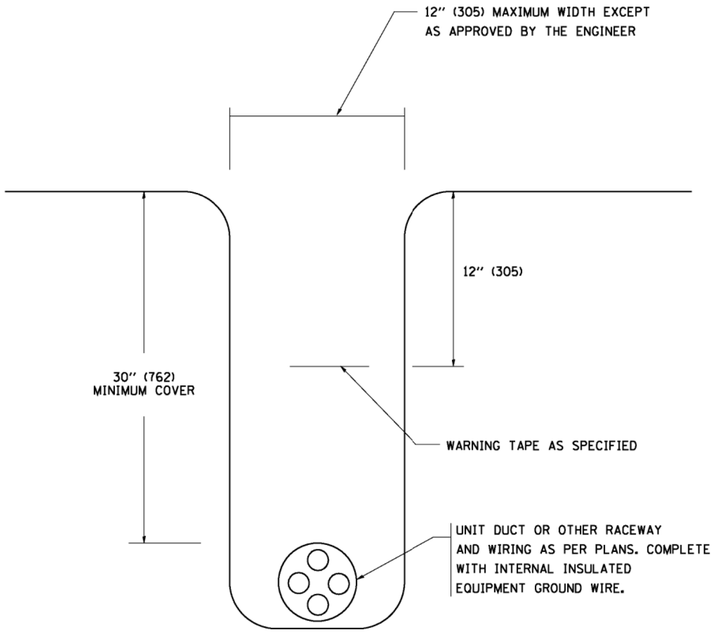
SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	267
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



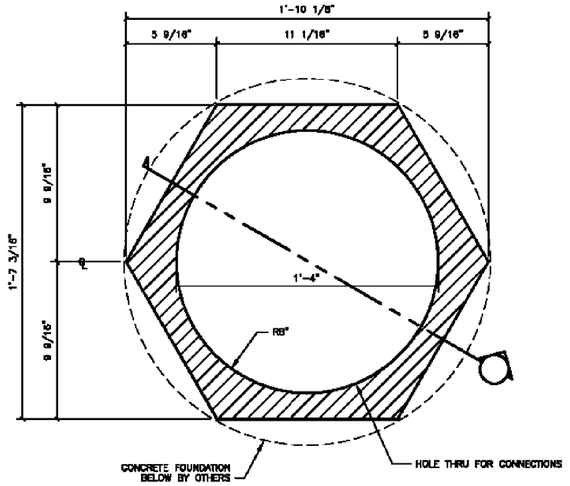
TYPICAL SPLICE DETAIL

N.T.S.



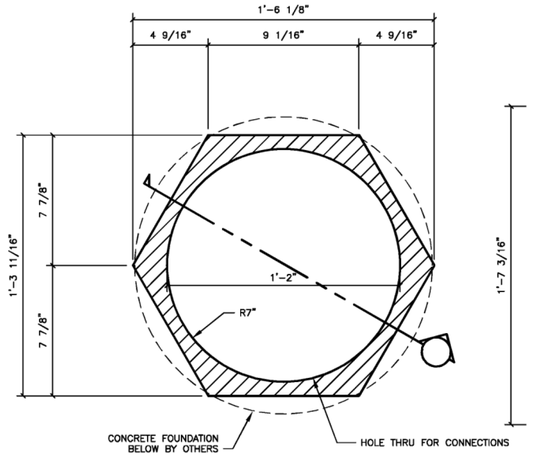
TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



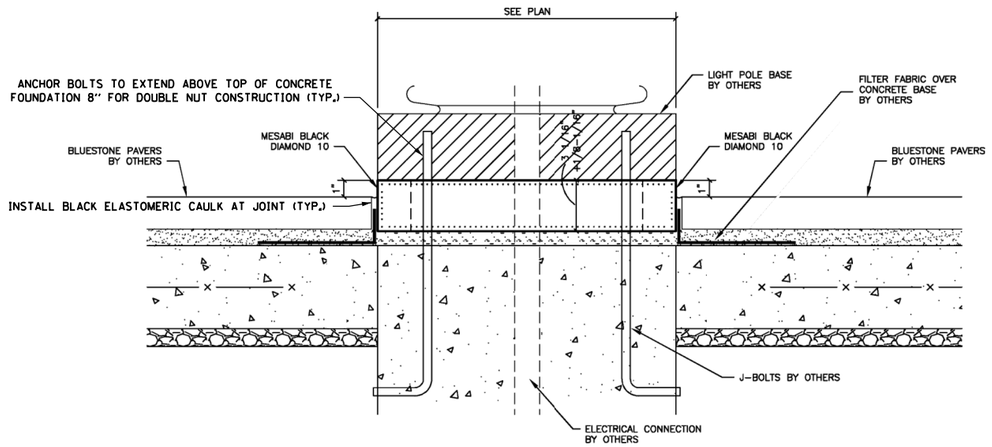
PLAN @ STREET LIGHT POLE SPACER

SCALE: NTS



PLAN @ PEDESTRIAN LIGHT POLE SPACER

SCALE: NTS



SECTION @ LIGHT POLE SPACER

SCALE: NTS

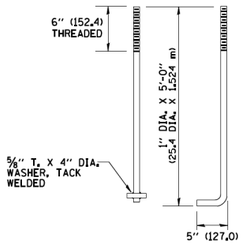
FILE NAME = sht-11 Lighting Plans_Details-Lake-02.dgn

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = mkucinas	DESIGNED MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS – 2 LAKE STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN MT	REVISED -			1405	16-00264-00-PV	COOK	344	268
	PLOT SCALE = 40.0000 ' / in.	CHECKED MR	REVISED -					CONTRACT NO.		
	PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

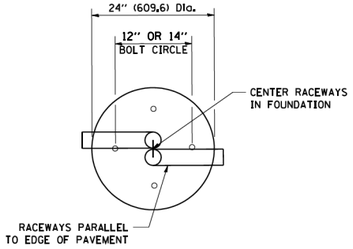
LIGHT POLE FOUNDATION DEPTH TABLE
25 FT. (7.62 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Ou = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Ou = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND Ø = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND Ø = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND Ø = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)

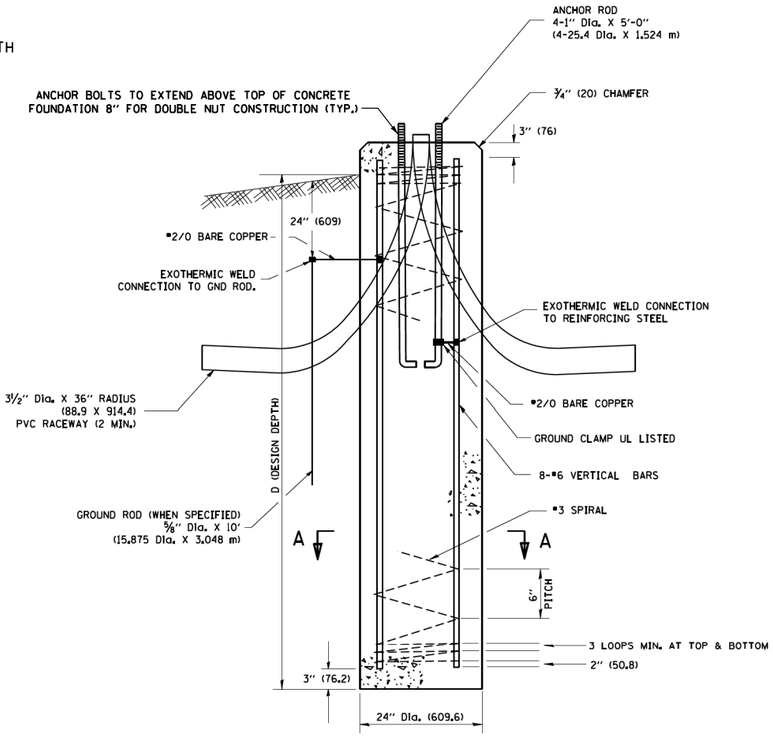
•FOUNDATION FOR PEDESTRIAN POLE SHALL BE 5' DEPTH



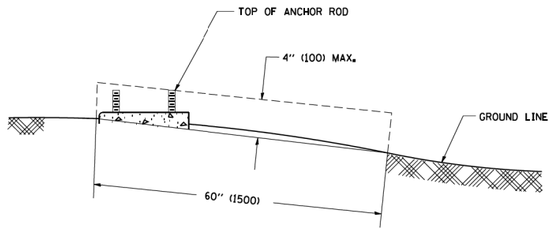
ANCHOR BOLT DETAIL



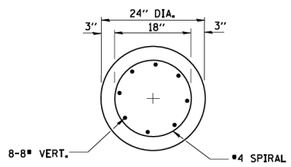
TOP VIEW



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = sht-12 Lighting Plans_Details-Lake-03.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
	DRAWN MT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED MR	REVISED -
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS – 3
LAKE STREET

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

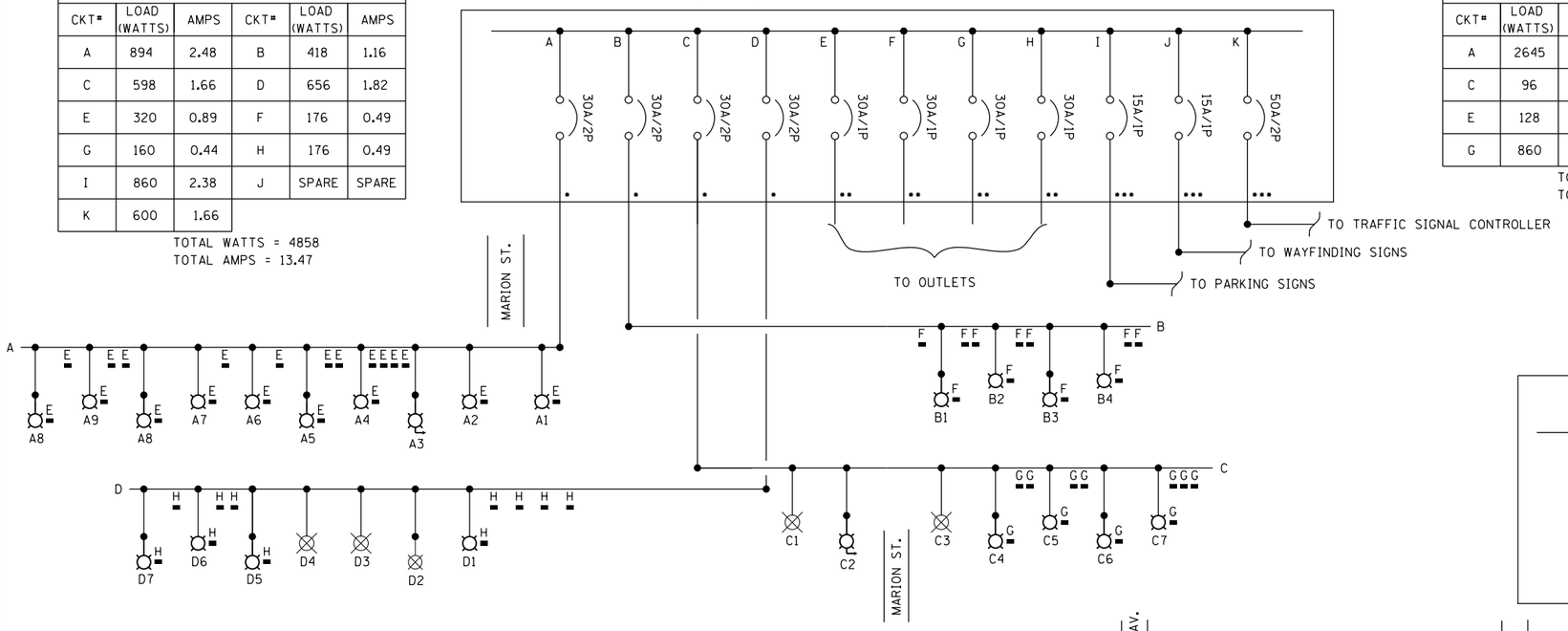
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	269
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

LOAD TABULATION FOR STREET LIGHTING CONTROLLER "SLC1"

CKT#	LOAD (WATTS)	AMPS	CKT#	LOAD (WATTS)	AMPS
A	894	2.48	B	418	1.16
C	598	1.66	D	656	1.82
E	320	0.89	F	176	0.49
G	160	0.44	H	176	0.49
I	860	2.38	J	SPARE	SPARE
K	600	1.66			

TOTAL WATTS = 4858
TOTAL AMPS = 13.47

LIGHTING CONTROLLER SLC1 (MARION)
120/208V 3PH, 400A MAIN BREAKER,
50A, 30A, AND 15A BRANCH CIRCUIT BREAKERS



LOAD TABULATION FOR STREET LIGHTING CONTROLLER "SLC2"

CKT#	LOAD (WATTS)	AMPS	CKT#	LOAD (WATTS)	AMPS
A	2645	13.62	B	2183	11.28
C	96	0.9	D	96	0.9
E	128	1.2	F	96	0.9
G	860	4	H	SPARE	SPARE

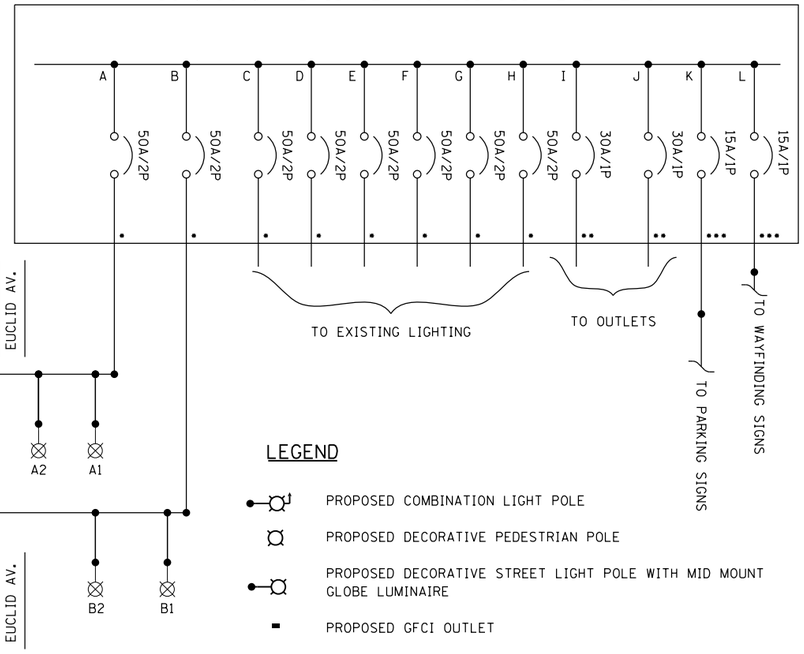
TOTAL WATTS = 6104
TOTAL AMPS = 32.8

LOAD TABULATION FOR STREET LIGHTING CONTROLLER "SLC3"

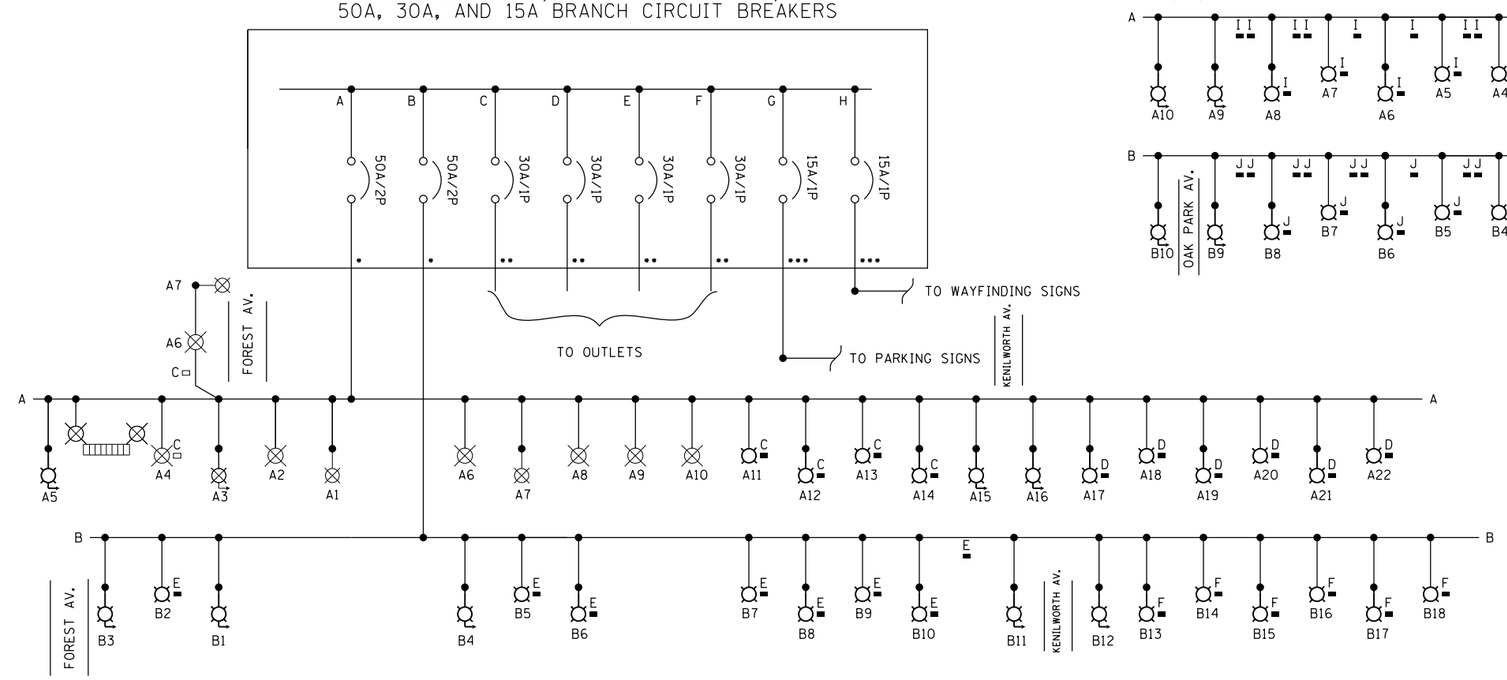
CKT#	LOAD (WATTS)	AMPS	CKT#	LOAD (WATTS)	AMPS
A	1347	7	B	1347	7.14
C	SPARE	SPARE	D	SPARE	SPARE
E	1540	9.1	F	1320	7.8
G	1540	9.1	H	1320	7.8
I	208	1.95	J	224	2.1
K	860	4	L	SPARE	SPARE

TOTAL WATTS = 9706
TOTAL AMPS = 56

LIGHTING CONTROLLER SLC3 (EUCLID)
120/240V 1PH, 200A MAIN BREAKER,
50A, 30A, AND 15A BRANCH CIRCUIT BREAKERS



LIGHTING CONTROLLER SLC2 (FOREST)
120/240V 1PH, 100A MAIN BREAKER,
50A, 30A, AND 15A BRANCH CIRCUIT BREAKERS



LEGEND

- PROPOSED COMBINATION LIGHT POLE
- PROPOSED DECORATIVE PEDESTRIAN POLE
- PROPOSED DECORATIVE STREET LIGHT POLE WITH MID MOUNT GLOBE LUMINAIRE
- PROPOSED GFCI OUTLET
- EXISTING COMBINATION LIGHT POLE
- EXISTING PEDESTRIAN LIGHT POLE TO REMAIN
- EXISTING STREET LIGHT POLE TO REMAIN
- EXISTING GFCI OUTLET
- • CONTROLLED LIGHTING CIRCUIT WITH PHOTO CELL ON & TIME CLOCK OFF, AND MANUAL OVERRIDE
- •• CONTROLLED OUTLET CIRCUIT WITH PHOTO CELL ON & TIME CLOCK OFF, AND MANUAL OVERRIDE
- ••• WIRED FOR CONTINUOUS OPERATION
- EXISTING SPECIALTY FEATURE POST TOP AND IN GROUND LIGHTING

FILE NAME = sht-13 Lighting Plans_Details-Single Line.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

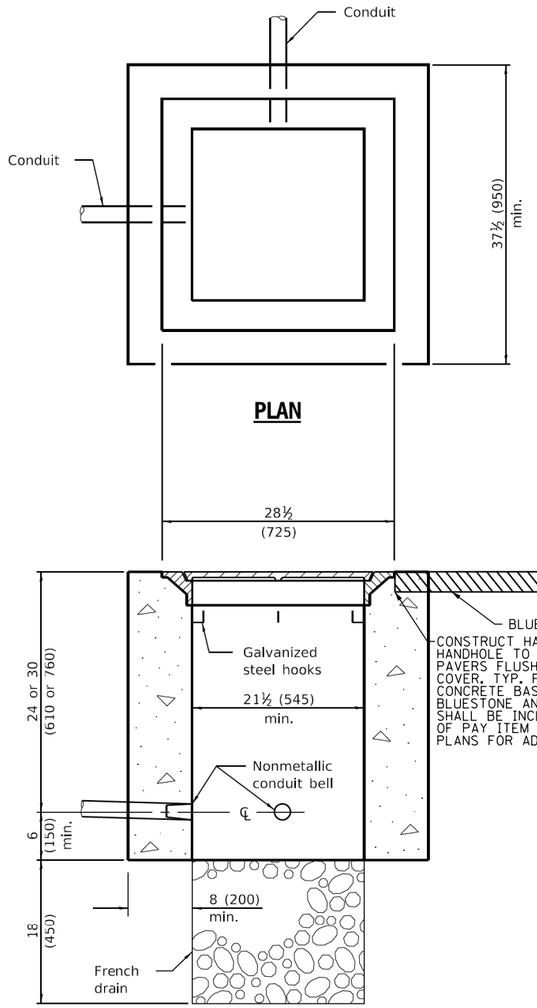
USER NAME = mkucinas	DESIGNED MK	REVISED -
	DRAWN MT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED MR	REVISED -
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING SINGLE LINE DIAGRAMS
LAKE STREET

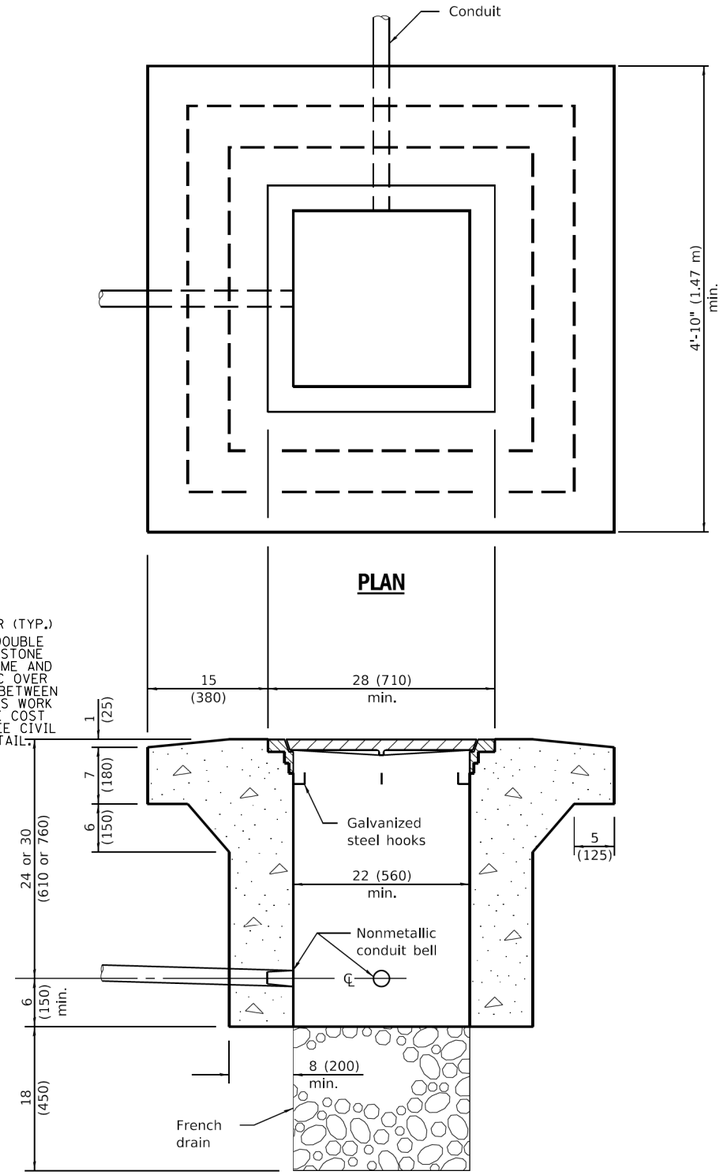
SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	270
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



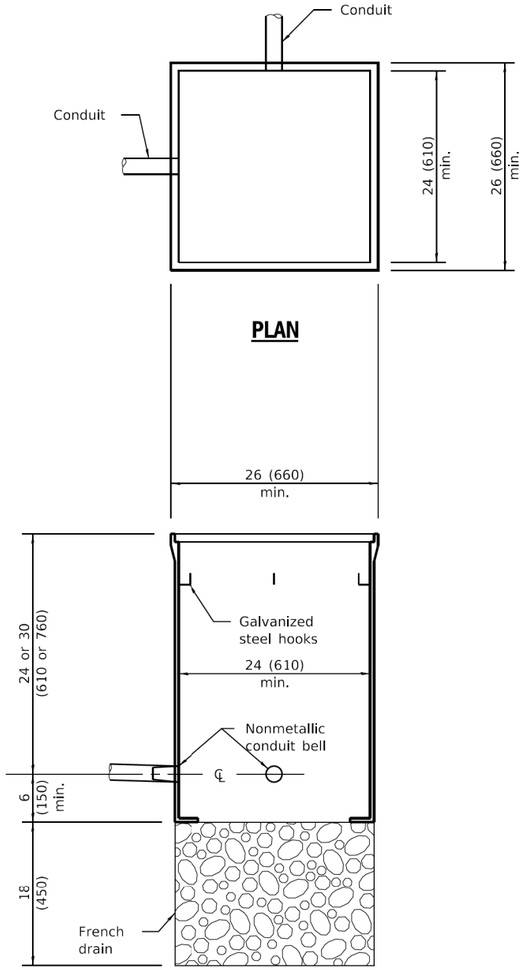
ELEVATION

PORTLAND CEMENT CONCRETE



ELEVATION

PORTLAND CEMENT CONCRETE
HEAVY DUTY



ELEVATION

COMPOSITE CONCRETE

All dimensions are in inches (millimeters) unless otherwise shown.

QUANTITIES

Depth	Concrete yd³ (m³) Handhole	Heavy Duty Handhole
30 (762)	0.61 (0.47)	0.98 (0.75)
36 (914)	0.73 (0.56)	1.10 (0.84)

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF OPERATIONS
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Corrected dimension on
	heavy duty handhole. Added
	concrete quantities table.
1-1-09	Switched units to
	English (metric).

HANDHOLES

STANDARD 814001-03

FILE NAME = sht-14 Lighting Plans_Details_Handholes.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = mkucinas	DESIGNED MK	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED MR	REVISED -
PLOT DATE = 11/14/2019	DATE 11/15/2019	REVISED -

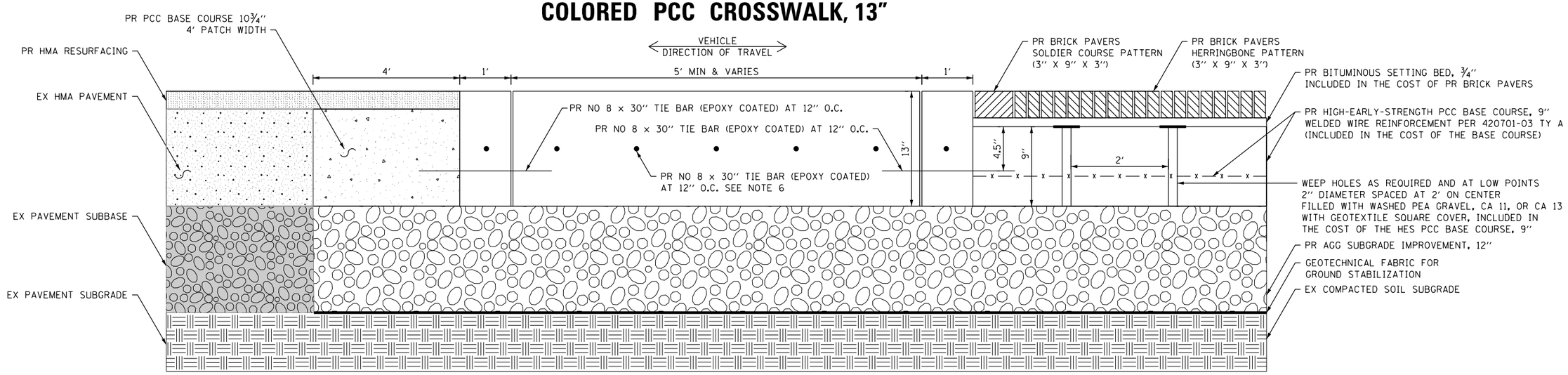
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS – HANDHOLES
LAKE STREET

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	271
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

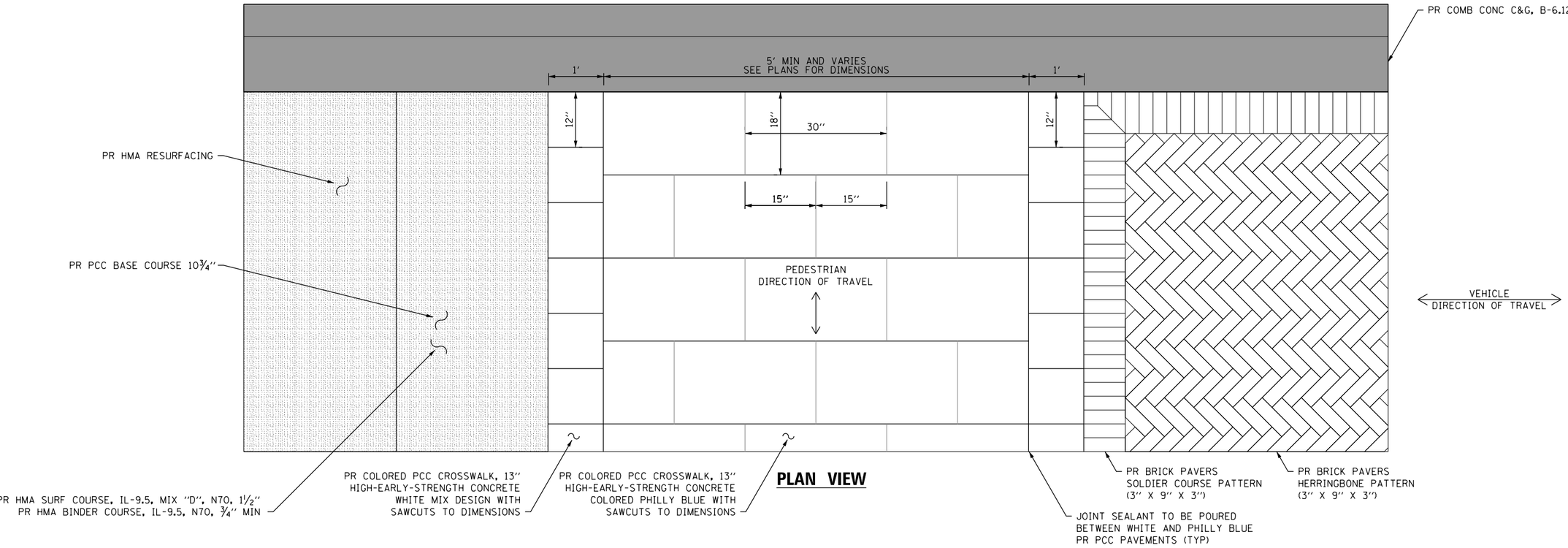
COLORED PCC CROSSWALK, 13"



EX HMA PAVEMENT

ELEVATION VIEW

PR INTERSECTION RECONSTRUCTION



PLAN VIEW

FILE NAME = sht-details.dgn

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	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
DECORATIVE CROSSWALK

SCALE: NTS | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	272

CONTRACT NO. 61F36

ILLINOIS FED. AID PROJECT

DECORATIVE CROSSWALK NOTES

1. THE COLORED CONCRETE PAVEMENT SHALL BE GIVEN A FINAL FINISH BY BRUSHING WITH A WHITEWASH BRUSH. THE BRUSH SHALL BE DRAWN ACROSS THE PAVEMENT AT RIGHT ANGLES TO THE EDGE OF THE WALK WITH ADJACENT STROKES SLIGHTLY OVERLAPPING THUS PRODUCING A UNIFORM, SLIGHTLY ROUGHENED SURFACE WITH PARALLEL BRUSH MARKS.

2. ALL JOINTS BETWEEN ABUTTING CONCRETE POURS SHALL BE "FACTORY EDGE" JOINTS OR THE FINEST, NARROWEST TOOLED JOINT THAT IS POSSIBLE.

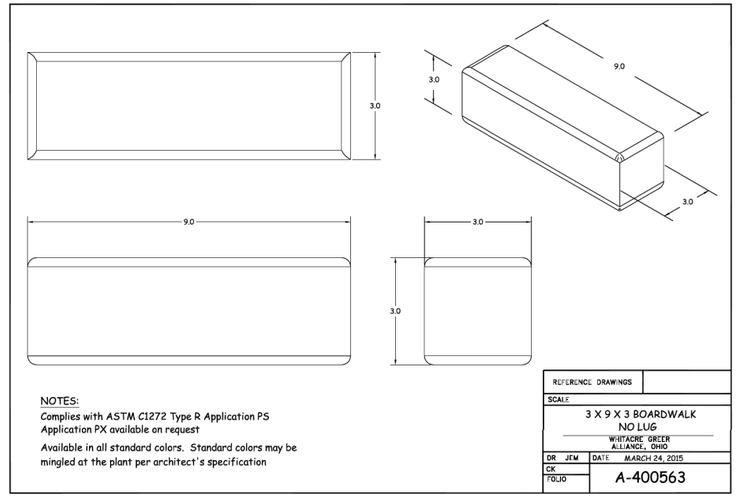
3. WITHIN 24 HOURS AFTER PR PCC COLORED PAVEMENT HAS BEEN POURED THE CONTRACTOR SHALL SAW CUT IN JOINTS TO THE DIMENSIONS SHOWN IN THE PLAN VIEW. SAW CUT SHALL BE 2" DEPTH AND BLADE SHALL BE PULLED BACK NEAR THE END OF THE JOINT TO AVOID DAMAGING ADJACENT PAVEMENT STRUCTURES.

4. CONTRACTOR SHALL COVER THE PR PCC COLORED PAVEMENT AFTER SAW CUT OPERATIONS WITH POLYETHYLENE FILM, CRAFT PAPER, OR OTHER MEANS AND METHODS. CROSS WALKS SHALL REMAIN COVERED UNTIL ADJACEMENT PAVEMENT STRUCTURES HAVE BEEN BUILT. ANY DAMAGED CROSSWALKS SHALL BE CLEANED, REPAIRED, OR REPLACED, AS DIRECTED BY THE ENGINEER, AT NO ADDITONAL COST TO THE CONTRACT.

5. CONTRACTOR SHALL APPLY A SEALANT ALONG THE SURFACE JOINT BETWEEN WHITE AND BLUE CONCRETE PAVEMENT. THE SEALANT SHALL BE CLEAR COLORED, THERMOPLASTIC, NON-STAINING AND NON-SAGGING, AND SHALL SKIN OVER TACK FREE. THE PACKAGING OF THE SEALANT SHALL EXPLICITLY STATE THAT THE SEALANT IS FOR OUTDOOR USE.

6. PR NO 8 x 30" TIE BARS (EPOXY COATED) AT 12" O.C. SHALL ONLY BE USED TO TIE TWO HAVLES OF CROSS WALK TOGETHER IF MORE THAN ONE POUR IS REQUIRED. TIE BARS SHALL ALSO BE USED TO TIE PR CROSSWALK INTO ADJACENT C&G. TIE BARS WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT COST FOR COLORED PORTLAND CEMENT CONCRETE PAVEMENT, 13".

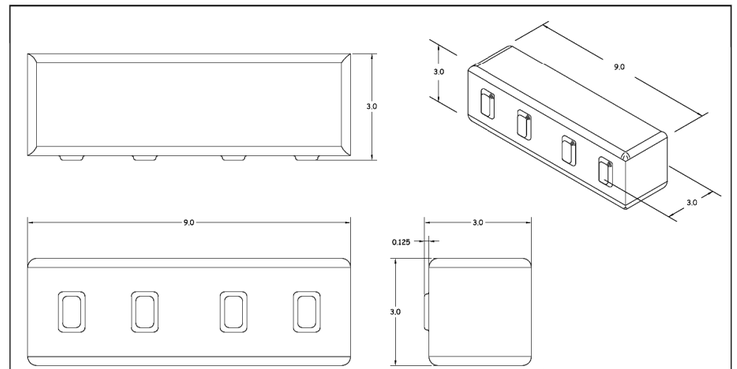
BRICK PAVERS



NOTES:
Complies with ASTM C1272 Type R Application PS
Application PX available on request

Available in all standard colors. Standard colors may be mingled at the plant per architect's specification

REFERENCE DRAWINGS	
SCALE	
3 X 9 X 3 BOARDWALK NO LUG	
WHITACRE GREER ALLIANCE, OHIO	
DR JEM	DATE MARCH 24, 2015
CK	
FOLIO	A-400563



NOTES:
Complies with ASTM C1272 Type R Application PS
Application PX available on request

Available in all standard colors. Standard colors may be mingled at the plant per architect's specification

REFERENCE DRAWINGS	
SCALE	
3 X 9 X 3 BOARDWALK WITH LUG	
WHITACRE GREER ALLIANCE, OHIO	
DR JEM	DATE MARCH 24, 2015
CK	
FOLIO	A-400560

FILE NAME = sht-details.dgn

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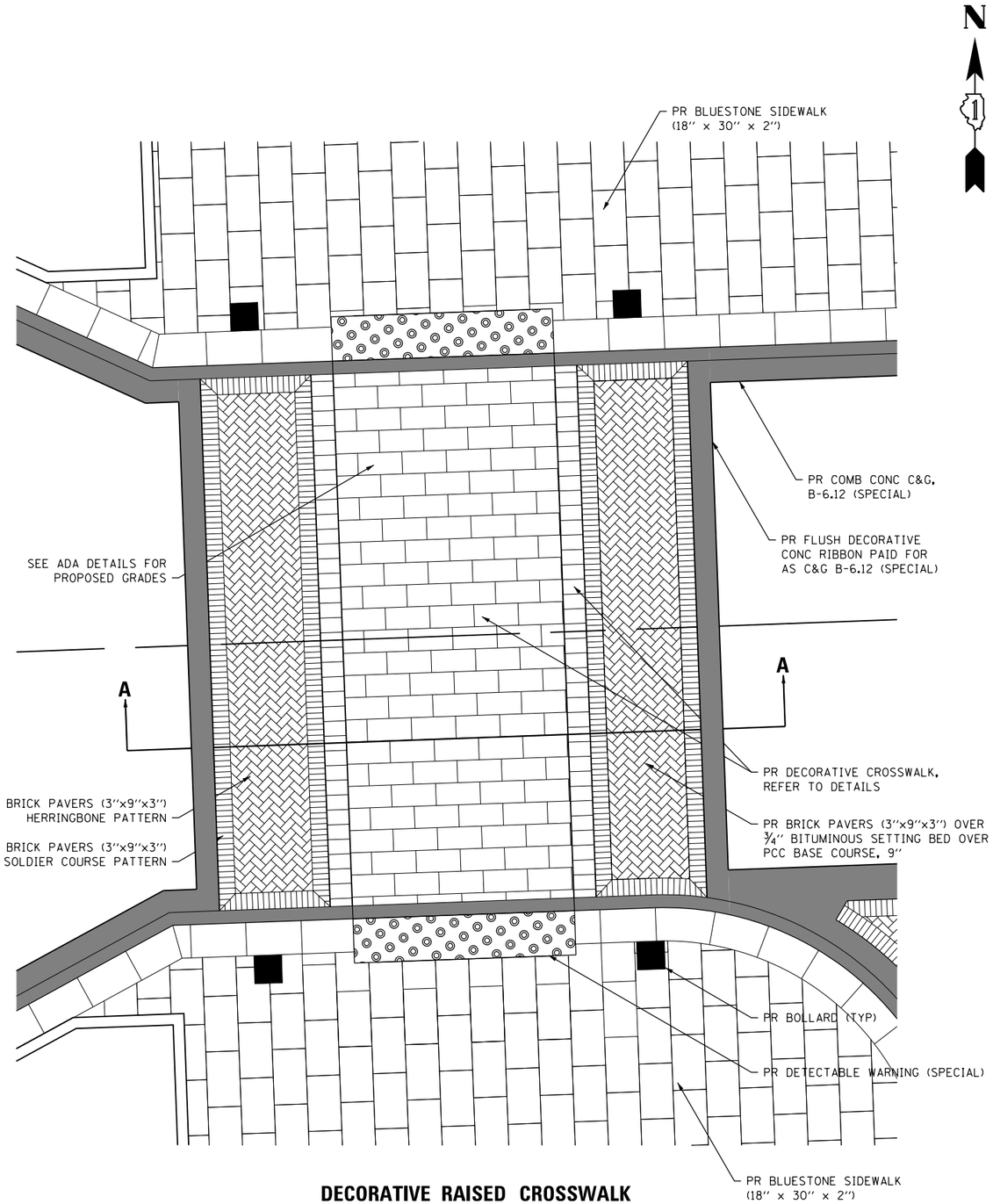
USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

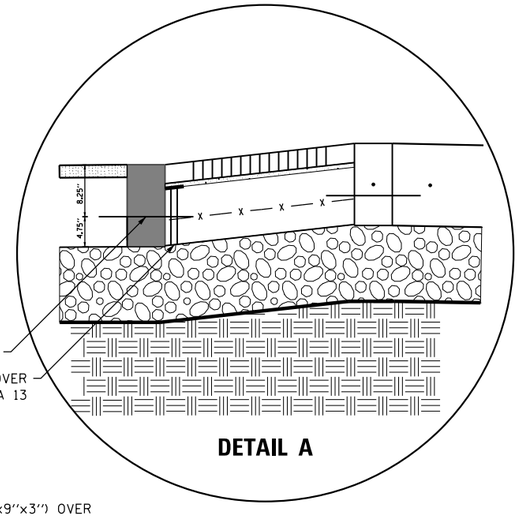
CONSTRUCTION DETAILS
DECORATIVE CROSSWALK

SCALE: NTS | SHEET 2 OF 7 SHEETS | STA. | TO STA.

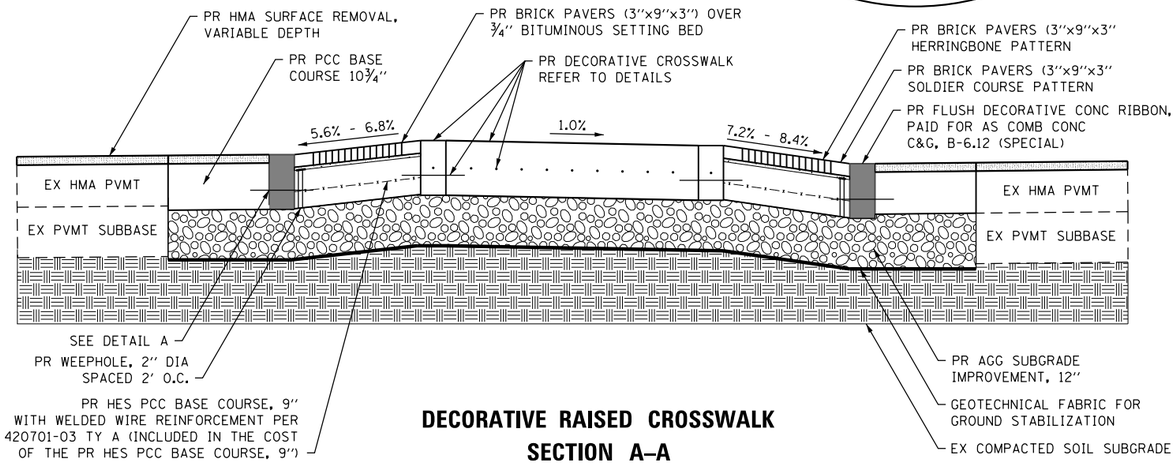
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	273
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		



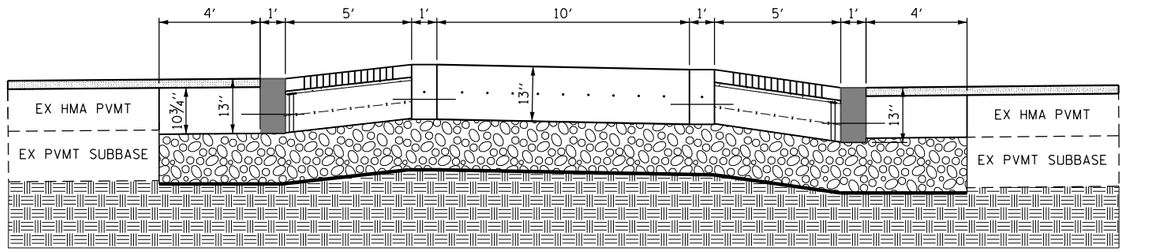
DECORATIVE RAISED CROSSWALK
LAKE STREET – STA 19+72.50



DETAIL A



DECORATIVE RAISED CROSSWALK
SECTION A–A



DECORATIVE RAISED CROSSWALK
SECTION A–A

FILE NAME = sht-details.dgn

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USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 6.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
DECORATIVE RAISED CROSSWALK

SCALE: NTS | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	274
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF OAK PARK MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).

2. THE VILLAGE OF OAK PARK ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE CHICAGO CITY DATUM (AS PROVIDED BY THE VILLAGE OF OAK PARK).

2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.

2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.

3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH CF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

12. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

13. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

14. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

15. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

16. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

17. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

18. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.

19. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

20. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL

07/12/2016

MWRD GENERAL NOTES

STD. DWG. NO.18

PAGE NO. 19

FILE NAME = sht-details.dgn

thomas engineering group service of the highest grade

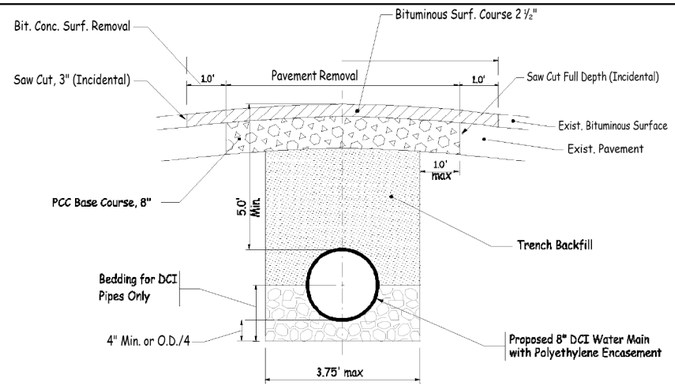
USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.2000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

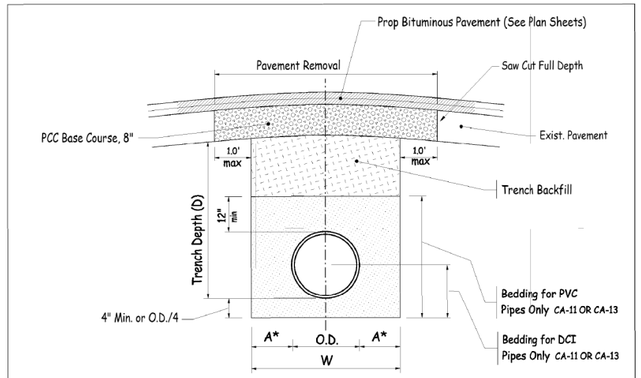
SCALE: NTS | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	275
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			



Note: Any additional Bituminous Surface Removal outside of paylimits requires Sawing Pavement, 3" (Incidental)

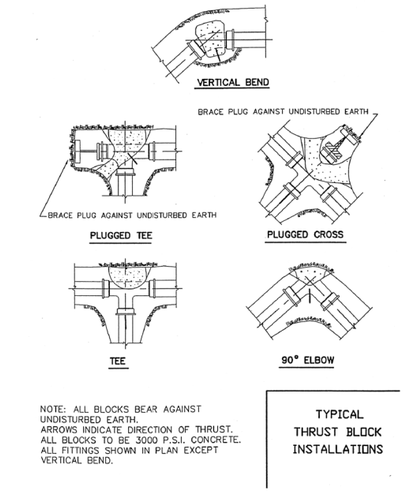
Typical Water Main Trench DETAIL



Note: Any additional Bituminous Surface Removal outside of paylimits requires Sawing Pavement, 3" (Incidental)

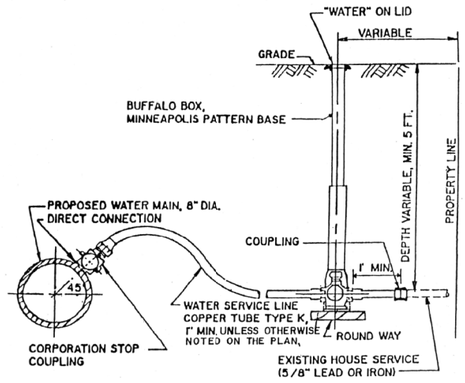
A* = 9" for trench D < 5.0'
A* = 18" for trench D > 5.0'

Typical Sewer Trench DETAIL

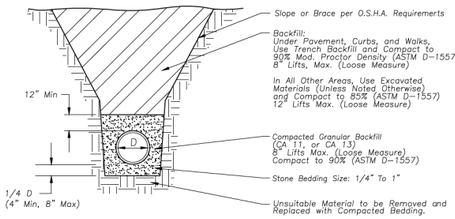


NOTE: ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH. ARROWS INDICATE DIRECTION OF THRUST. ALL BLOCKS TO BE 3000 P.S.I. CONCRETE. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATIONS

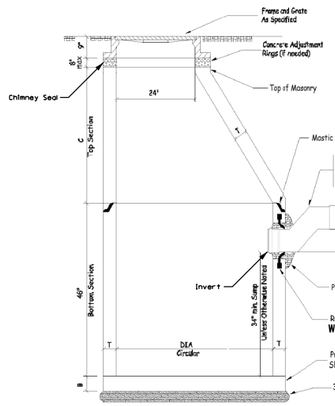


TYPICAL WATER SERVICE CONNECTION



TRENCH SECTION—PVC PIPE

CATCH BASIN, TYPE A, WITH HALF TRAP

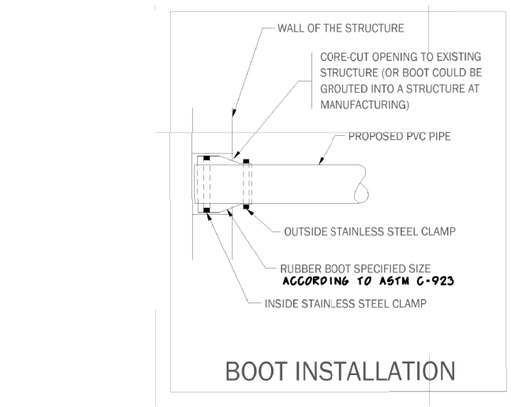


MATERIALS FOR WALLS	DIA	C	T (Min)	B
PRECAST REINFORCED CONCRETE SECTION	4' - 0"	2' - 6"	4"	6"
	5' - 0"	3' - 9"	5"	8"

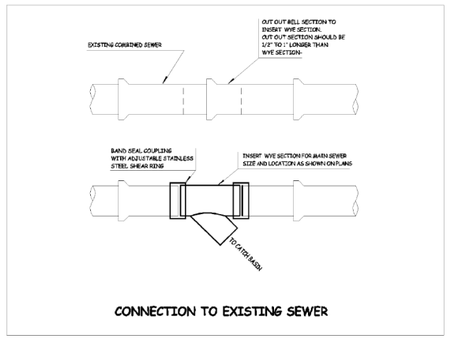
DIAMETER OF MAIN SEWER	DIA
21" AND UNDER	4' - 0"
24" TO 42" INCLUSIVE	5' - 0"

Outlet Pipe To be Laid on Min Grade of 1%

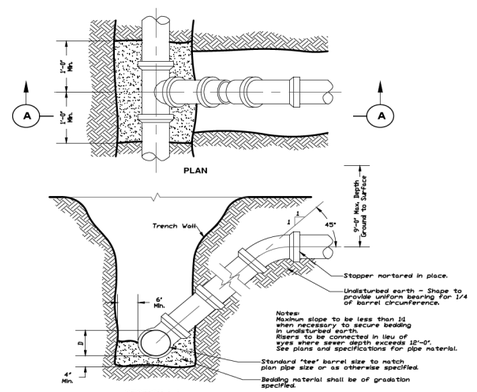
NOTE: All Joints to be Mortared



BOOT INSTALLATION



CONNECTION TO EXISTING SEWER



SECTION A-A

SEWER RISER PIPE

FILE NAME = sht-details.dgn

thomas engineering group service at the highest grade®

USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

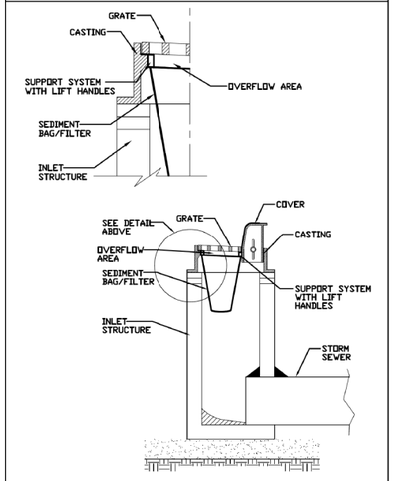
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: NTS | SHEET 5 OF 7 SHEETS | STA. | TO STA.

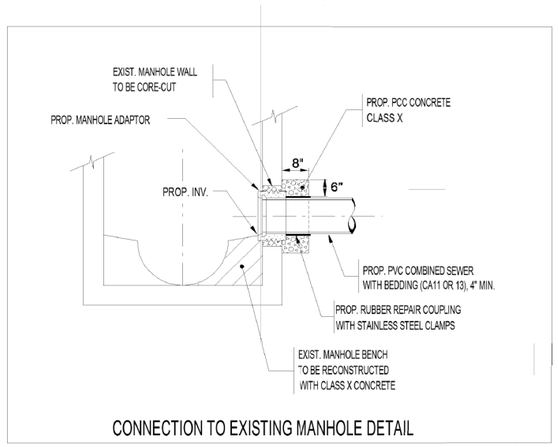
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	276
		CONTRACT NO. 61F36		
		ILLINOIS	FED. AID PROJECT	

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



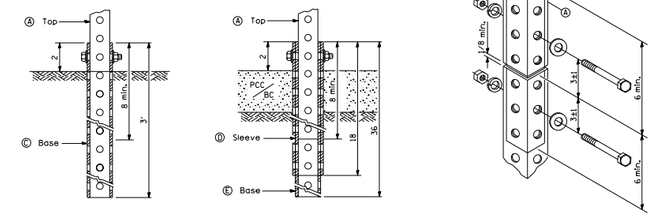
REFERENCE
Project
Designed ____ Date
Checked ____ Date
Approved ____ Date

STANDARD DVG. NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11



CONNECTION TO EXISTING MANHOLE DETAIL

THE SEWER TO STRUCTURE CONNECTION SHALL BE FLEXIBLE AND WATER TIGHT, MEETING THE REQUIREMENTS OF ASTM C-923 OR EQUIVALENT FOR SANITARY, COMBINED AND STORM SEWERS.



GROUND MOUNT DETAIL — PAVEMENT MOUNT DETAIL — SPLICE DETAIL

Ⓐ	1 3/4 x 1 3/4 x VAR
Ⓑ	1 1/2 x 1 1/2 x 12
Ⓒ	2 x 2 x 36
Ⓓ	2 1/4 x 2 1/4 x 18
Ⓔ	2 x 2 x 36

GENERAL NOTES

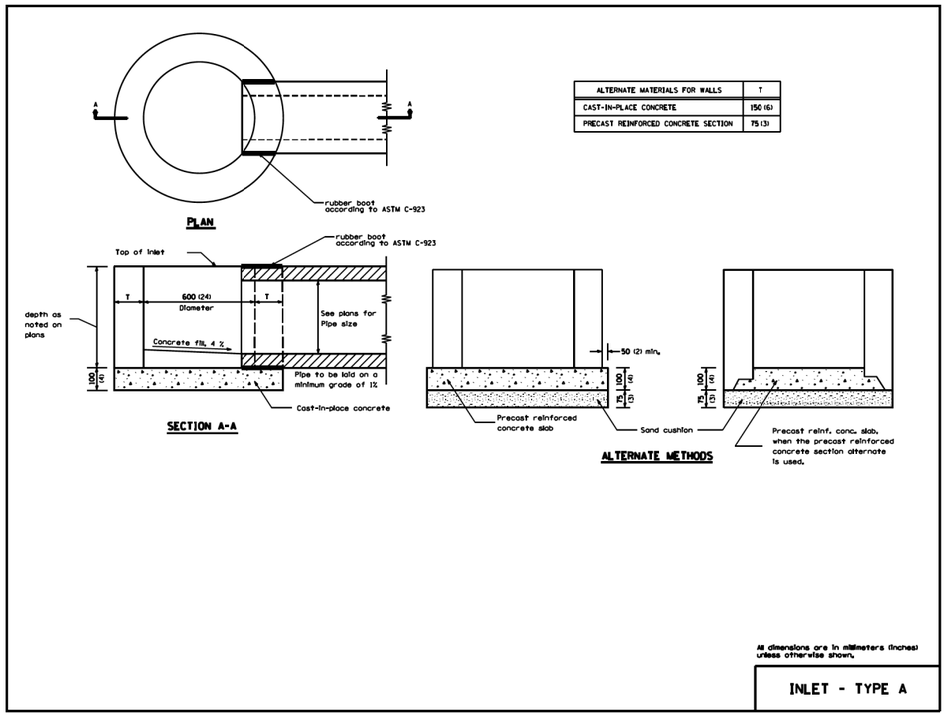
TOP SECTION Ⓐ SHALL BE 14 GA POWDER COATED BLACK

BASE SECTION Ⓒ SHALL BE 12 GA GALVANIZED

All bolts 3/8"hex head zinc or cadmium plated.

All dimensions are in inches unless otherwise shown.

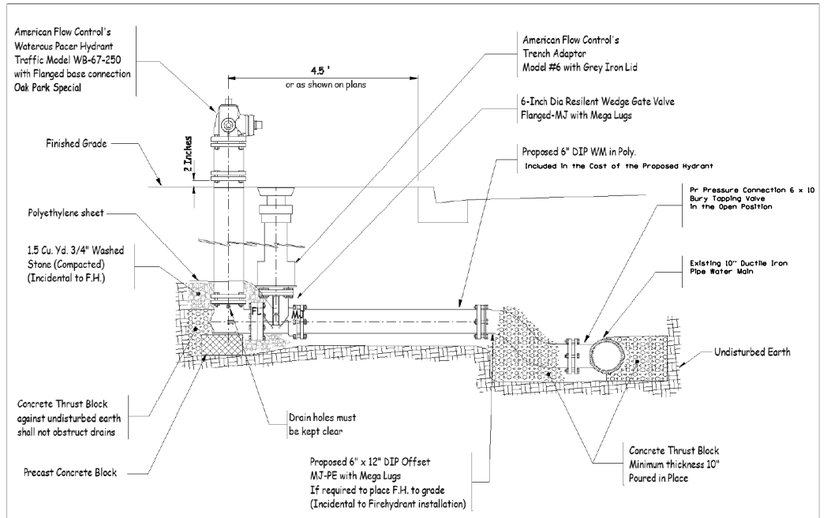
TELESCOPING STEEL SIGN SUPPORT (SPECIAL)



ALTERNATE MATERIALS FOR WALLS	T
CAST-IN-PLACE CONCRETE	150 (6)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

All dimensions are in millimeters (inches) unless otherwise shown.

INLET - TYPE A



Typical Fire Hydrant with Auxiliary Valve and Valve Box Installation with Offset

Detail

FILE NAME = sht-details.dgn

thomas engineering group
service at the highest grade

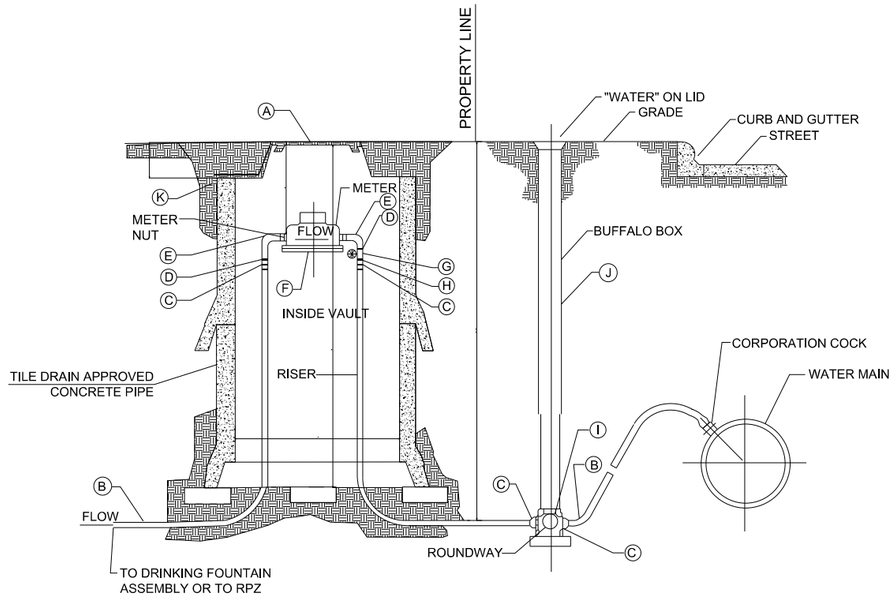
USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

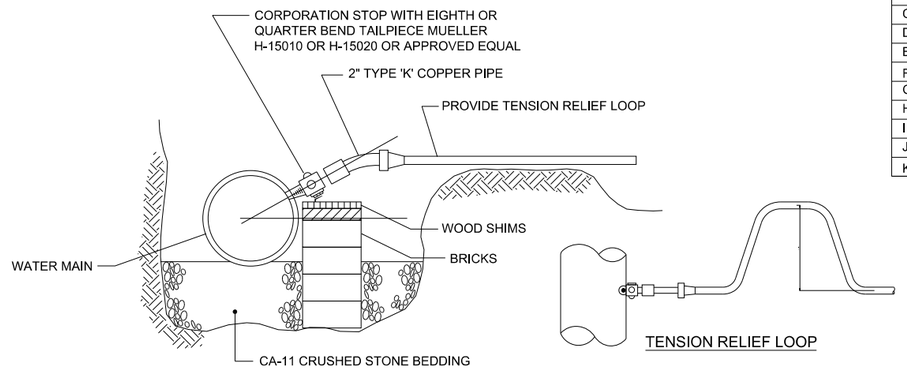
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: NTS | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	277
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			





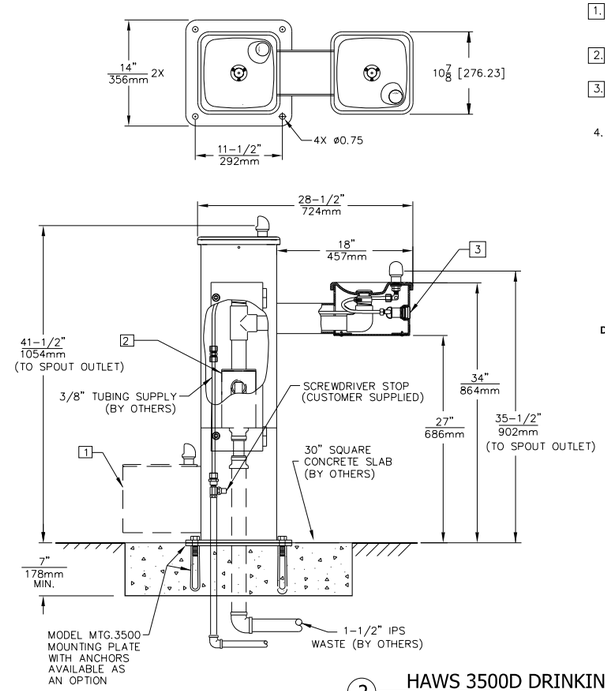
A	FRAME AND LID NEENAH R-1765
B	1.5" TYPE & COPPER PIPE
C	FEMALE FLARED FITTING
D	BRASS BUSHING
E	BENT METER COUPLING
F	METER
G	FULL PORT CONTROL VALVE
H	MALE I.P.S. TO FLARED ADAPTER
I	ROUNDWAY
J	SHUT OFF BOX
K	TILE DRAIN CONCRETE PIPE

TO PROTECT WATER SYSTEM FROM FREEZING EACH WINTER

1. SHUT OFF WATER AT ROADWAY.
2. LOOSEN METER NUT ON HOUSE SIDE OF METER (BLEEDER VALVE).
3. BLOWOUT WATER LINES FROM DRINKING FOUNTAIN TO METER.
4. IN SPRING REINSTALL METER AND HAVE THE ASSEMBLY TESTED BY LICENSED PERSONNEL

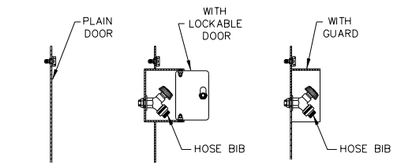
1 DRINKING FOUNTAIN AND WATER FEED

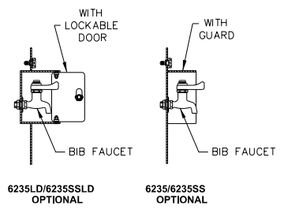
Scale: NTS



NOTES:

1. PET FOUNTAIN OPTION AVAILABLE FOR MODELS 3500D AND 3500DSS ONLY, SEE MODEL 6640 & 6640SS INSTRUCTIONS FOR PLUMBING.
2. SAND TRAP MODEL 6635 W/ MOUNTING PLATE (OPTIONAL). SEE MODEL FOR INSTALLATION INSTRUCTIONS.
3. REFER TO 5874/VRK5874 OPERATION AND MAINTENANCE MANUAL FOR PUSH BUTTON AND VALVE INSTALLATION/MAINTENANCE INSTRUCTIONS.
4. ACCESS DOOR SPECIFIED BY CUSTOMER AND SHIPPED SEPARATELY UNDER THE FOLLOWING MODEL NUMBERS:





2 HAWS 3500D DRINKING FOUNTAIN

Scale: NTS

FILE NAME = sht-details.dgn

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USER NAME = TEG	DESIGNED - VJM	REVISED -
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PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: NTS | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	278
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-09

Rubino Job No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 42+19.83
Offset: 0.9' LT

Surface Elev.: 42.87 ft

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf (Qu / Qp)	Additional Remarks
	0			Approximately 5 inches of ASPHALT Approximately 3 ½ inches of BRICK Approximately 9 inches of CONCRETE					
40		1	6	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		5,3,4 N=7			
	5	2	12			3,2,4 N=6			
		3	14	Gray silty CLAY, trace sand and gravel; Medium stiff to stiff	CL	2,4,5 N=9	15		Qp=3.5 tsf
35		4	16			3,4,4 N=8	14		Qp=3.5 tsf
	10	5	14	Gray SILT with clay, trace sand and gravel; Medium dense	ML	7,9,11 N=20			
		6	16	Gray silty CLAY, trace sand and gravel; Stiff to very stiff		3,7,9 N=16	16		>>>Qp=4.5 tsf
30	15	7	18		CL	4,6,8 N=14	12		>>>Qp=4.5 tsf
25		8	16			6,7,9 N=16	13		>>>Qp=4.5 tsf
	20			End of boring at approximately 20 feet below existing grade. No free groundwater encountered during drilling operations.					

STANDARD PENETRATION TEST DATA
Moisture PL LL (0 25 50)
STRENGTH, tsf: Qu Qp (0 2.0 4.0)

Completion Depth: 20.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888615
Longitude: -87.793213
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue & Grove Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-10

Rubino Jcb No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 39+67.12
Offset: 0.56' RT

Surface Elev.: 43.38 ft

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf (Qu / Qp)	Additional Remarks
	0			Approximately 3 ¾ inches of ASPHALT Approximately 4 ¼ inches of BRICK					
40		1	12	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		4,6,4 N=10			
	5	2	14			2,2,2 N=4			
		3	16	Gray silty CLAY, trace sand and gravel; Medium stiff to very stiff		3,3,4 N=7	14		Qp=3.5 tsf
35		4	8			3,5,6 N=11	15		>>>Qp=4.5 tsf
	10	5	16		CL	5,6,9 N=15	15		>>>Qp=4.5 tsf
		6	18			2,4,6 N=10	16		>>>Qp=4.5 tsf
30	15	7	18			5,6,8 N=14	13		>>>Qp=4.5 tsf
25		8	18			5,6,9 N=15	16		>>>Qp=4.5 tsf
	20			End of boring at approximately 20 feet below existing grade. No free groundwater encountered during drilling operations.					

STANDARD PENETRATION TEST DATA
Moisture PL LL (0 25 50)
STRENGTH, tsf: Qu Qp (0 2.0 4.0)

Completion Depth: 20.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888631
Longitude: -87.794177
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue & Grove Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = sht-blog.dgn

thomas engineering group service at the highest grade®

USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 1 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	279
		CONTRACT NO. 61F36		
		ILLINOIS FED. AID PROJECT		

rubino ENGINEERING INC.
Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-11

Rubino Job No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling 6 FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 37+56.87
Offset: 3.67' LT

Surface Elev.: 43.66 ft

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf (Qu ▲, Qp ✳)	Additional Remarks
	0			Approximately 5 ½ inches of ASPHALT Approximately 3 ½ inches of BRICK UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials					
40	5	1	14			8,6,5 N=11			
		2	12			3,2,4 N=6			
		3	16	Gray silty CLAY, trace sand and gravel; Stiff to very stiff		4,5,4 N=9	15	Qp=3.5 tsf	
35	10	4	12			4,5,9 N=14	16	>>Qp=4.5 tsf	
		5	14		CL	4,8,10 N=18	14	>>Qp=4.5 tsf	
30	15	6	18			3,5,8 N=13	14	>>Qp=4.5 tsf	
		7	16			4,5,8 N=13	14	>>Qp=4.5 tsf	
25	20	8	18	End of boring at approximately 20 feet below existing grade.		8,7,9 N=16	13	>>Qp=4.5 tsf	

Completion Depth: 20.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888667
Longitude: -87.794934
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue & Grove Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.
Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-12

Rubino Jcb No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling 13.5 FT.
Upon Completion CAVE IN FT.
Delay N/A FT.

Station: 33+61.57
Offset: 10.88' RT

Surface Elev.: 49.03 ft

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STRENGTH, tsf (Qu ▲, Qp ✳)	Additional Remarks
	0			Approximately 3 ¾ inches of ASPHALT Approximately 8 ¼ inches of CONCRETE Approximately 12 inches of GRAVEL BASE					
45	5	1	12	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		6,8,7 N=15			
		2	12			3,2,3 N=5			
		3	16			3,6,7 N=13			
40	10	4	18			6,7,10 N=17			
		5	16			6,8,8 N=16			
35	15	6	12	Gray silty CLAY, trace sand and gravel; Stiff to very stiff	CL	7,7,8 N=15	10	Qp=3.0 tsf	
		7	0			7,9,14 N=23			
30	20	8	16	End of boring at approximately 20 feet below existing grade.		4,7,11 N=18	16	>>Qp=4.5 tsf	

Completion Depth: 20.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888676
Longitude: -87.796365
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = sht-blog.dgn

thomas engineering group service of the highest grade®

USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 2 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	280

CONTRACT NO. 61F36
ILLINOIS FED. AID PROJECT

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-13

Rubino Job No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling 11.5 FT.
Upon Completion CAVE IN FT.
Delay N/A FT.

Station: 29+40.00
Offset: 3.62' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.57 ft					
						Approximately 8 inches of ASPHALT					
						Approximately 16 inches of GRAVEL BASE					
50				1	14	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		11,13,10 N=23			
	5			2	9			2,1,2 N=3			
45				3	16			1,2,1 N=3			
				4	12	Brown and gray silty SAND with clay, trace gravel; Loose to medium dense		2,4,5 N=9			
	10										
40				5	18		SM	3,2,4 N=6			
				6	14			3,5,8 N=13			
	15					End of boirng at approximately 15 feet below existing grade.					

Completion Depth: 15.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888684
Longitude: -87.797903
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-14

Rubino Jcb No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling 12.5 FT.
Upon Completion CAVE IN FT.
Delay N/A FT.

Station: 24+84.95
Offset: 3.02' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.81 ft					
						Approximately 3 ½ inches of ASPHALT					
						Approximately 9 ¼ inches of CONCRETE					
						Approximately 11 ¼ inches of GRAVEL BASE					
50				1	14	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		6,3,2 N=5			
	5			2	10			3,2,2 N=4			
45				3	16	Brown silty SAND with clay, trace gravel; Loose to medium dense		1,2,2 N=4			
				4	18		SM	2,3,3 N=6			
	10										
40				5	12	Gray SAND, trace fines and gravel; Medium dense		3,6,7 N=13			
				6	12		SP	5,7,7 N=14			
	15					End of boirng at approximately 15 feet below existing grade.					

Completion Depth: 15.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888680
Longitude: -87.799596
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = sht-blog.dgn

thomas engineering group service of the highest grade

USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 3 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	281

CONTRACT NO. 61F36
ILLINOIS FED. AID PROJECT

LOG OF BORING B-15

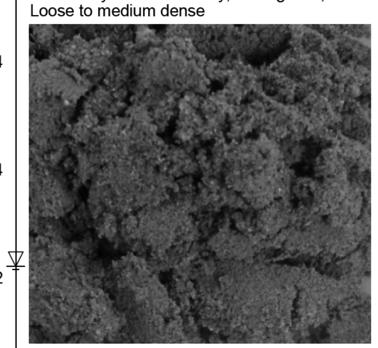
rubino ENGINEERING INC.
Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

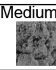
Rubino Job No.:	G17.067	Drilling Method:	3 ¼" Hollow Stem Auger
Project:	Lake Street Geotechnical Investigation	Sampling Method:	Split Spoon
Location:	Lake Street	Hammer Type:	Automatic
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS	
While Drilling	11.5 FT.
Upon Completion	CAVE IN FT.
Delay	N/A FT.

Station: 19+20.78
Offset: 17.83' LT
Surface Elev.: 50.67 ft

Depth (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	Additional Remarks
0			Approximately 9 ½ inches of ASPHALT				
			Approximately 13 ¾ inches of GRAVEL BASE				
	1	14	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		5,5,4 N=9		
	2	12			1,1,2 N=3		
5	3	14	Brown silty SAND with clay, trace gravel; Loose to medium dense		3,4,4 N=8		
	4	14		SM	4,4,6 N=10		
10	5	12			2,3,5 N=8		
	6	14	Gray SAND, trace fines and gravel; Medium dense	SP	3,5,5 N=10		
15			End of boirng at approximately 15 feet below existing grade.				





STANDARD PENETRATION TEST DATA; × Moisture; PL; LL; 0 25 50; STRENGTH, tsf; ▲ Qu; ✳ Qp; 0 2.0 4.0

Elevation (feet): 50, 45, 40

Completion Depth:	15.0 ft	Latitude:	41.888707
Date Boring Started:	5/4/17	Longitude:	-87.801678
Date Boring Completed:	5/4/17	Drill Rig:	Geoprobe 7822DT
Logged By:	J.W.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineerng, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

LOG OF BORING B-16

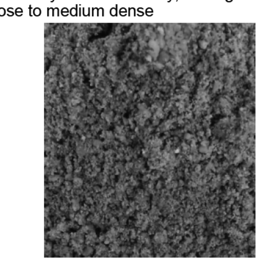
rubino ENGINEERING INC.
Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

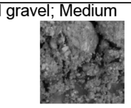
Rubino Job No.:	G17.067	Drilling Method:	3 ¼" Hollow Stem Auger
Project:	Lake Street Geotechnical Investigation	Sampling Method:	Split Spoon
Location:	Lake Street	Hammer Type:	Automatic
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS	
While Drilling	11.5 FT.
Upon Completion	CAVE IN FT.
Delay	N/A FT.

Station: 14+54.19
Offset: 15.89' RT
Surface Elev.: 51.32 ft

Depth (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	Additional Remarks
0			Approximately 4 inches of ASPHALT				
			Approximately 12 inches of CONCRETE				
	1	16	UNDOCUMENTED FILL: Brown, gray and black silty clay with sand, trace gravel and deleterious materials		2,2,1 N=3	23	
	2	14			2,3,2 N=5	18	LL = 30 PL = 14
5	3	18	Brown silty SAND with clay, trace gravel; Loose to medium dense		3,4,5 N=9		
	4	12		SM	3,6,8 N=14		
10	5	14			5,6,8 N=14		
	6	6	Gray SAND, trace fines and gravel; Medium dense	SP	7,8,8 N=16		
15			End of boring at approximately 15 feet below existing grade.				





STANDARD PENETRATION TEST DATA; × Moisture; PL; LL; 0 25 50; STRENGTH, tsf; ▲ Qu; ✳ Qp; 0 2.0 4.0

Elevation (feet): 50, 45, 40

Completion Depth:	15.0 ft	Latitude:	41.888571
Date Boring Started:	5/4/17	Longitude:	-87.803444
Date Boring Completed:	5/4/17	Drill Rig:	Geoprobe 7822DT
Logged By:	J.W.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineerng, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
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Fax: 847-931-1560

LOG OF BORING B-17

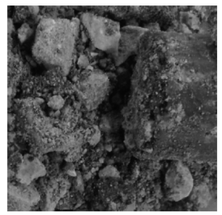
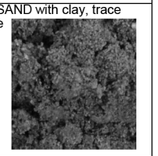
Rubino Job No.: G17.067
Project: Lake Street Geotechnical Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: 3 ¼" Hollow Stem Auger
Sampling Method: Split Spoon
Hammer Type: Automatic
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling 11 FT.
Upon Completion CAVE IN FT.
Delay N/A FT.

Station: 11+56.40
Offset: 4.54' LT

Surface Elev.: 52.31 ft

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %
52	0			Approximately 10 inches of ASPHALT			
				Approximately 14 inches of GRAVEL BASE			
50		1	16	UNDOCUMENTED FILL: Brown, gray and black silty sand with clay, trace gravel and deleterious materials		12,10,13 N=23	
	5	2	10			4,4,4 N=8	
45		3	8			3,3,2 N=5	
		4	6			2,1,3 N=4	
	10			Brown and gray silty SAND with clay, trace gravel; Medium dense 	SM		
40		5	12			5,10,7 N=17	
		6	16	Gray silty CLAY, trace sand and gravel; Stiff	CL	6,7,7 N=14	25
	15			End of boring at approximately 15 feet below existing grade.			

STANDARD PENETRATION TEST DATA
Moisture, PL, LL
0 25 50
STRENGTH, tsf
Qu, Qp
0 2.0 4.0
Qp=3.0 tsf

Additional Remarks

Completion Depth: 15.0 ft
Date Boring Started: 5/4/17
Date Boring Completed: 5/4/17
Logged By: J.W.
Drilling Contractor: Rubino Engineerng, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888611
Longitude: -87.804465
Drill Rig: Geoprobe 7822DT
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

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Fax: 847-931-1560

LOG OF BORING C-19

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 42+52.93
Offset: 1.3' LT

Surface Elev.: 42.80 ft

Elevation (feet)	Depth, (feet)	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %
43	0		Approximately 5 inches of ASPHALT			
			Approximately 3 ½ inches of BRICK			
			Approximately 9 inches of CONCRETE			
			Approximately 6 ½ + inches of GRAVEL BASE			
			DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.			

STANDARD PENETRATION TEST DATA
Moisture, PL, LL
0 25 50
STRENGTH, tsf
Qu, Qp
0 2.0 4.0

Additional Remarks

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888583
Longitude: -87.793110
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 5 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	283
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

rubino ENGINEERING INC.

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Fax: 847-931-1560

LOG OF BORING C-20

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 41+60.64
Offset: 0.8' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 42.99 ft					
						Approximately 5 inches of ASPHALT					
						Approximately 3 ½ inches of BRICK					
						Approximately 9 inches of CONCRETE					
						Approximately 6 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888592
Date Boring Started:	5/22/17	Longitude:	-87.793449
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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Fax: 847-931-1560

LOG OF BORING C-21

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 40+00.17
Offset: 0.1' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 43.29 ft					
						Approximately 3 ¾ inches of ASPHALT					
						Approximately 4 ¼ inches of BRICK					
						Approximately 16 + inches of GRAVEL BASE with weathered concrete					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888610
Date Boring Started:	5/22/17	Longitude:	-87.794038
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 6 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	284
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

rubino ENGINEERING INC.

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Fax: 847-931-1560

LOG OF BORING C-22

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 37+55.70
Offset: 0.6' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 43.73 ft					
						Approximately 5 ½ inches of ASPHALT					
						Approximately 3 ½ inches of BRICK					
						Approximately 15 + inches of GRAVEL BASE with weathered concrete					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888641
Longitude: -87.794935
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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Fax: 847-931-1560

LOG OF BORING C-23

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 36+68.35
Offset: 1' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 44.53 ft					
						Approximately 5 inches of ASPHALT					
						Approximately 4 inches of BRICK					
						Approximately 9 inches of CONCRETE					
						Approximately 6 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888647
Longitude: -87.795255
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 7 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	285
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

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Fax: 847-931-1560

LOG OF BORING C-24

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 35+76.54
Offset: 19' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 45.25 ft					
45						Approximately 3 inches of ASPHALT					
						Approximately 21 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888609
Longitude: -87.795595
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

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Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING C-25

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 33+66.39
Offset: 8.8' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 49.11 ft					
						Approximately 3 ¾ inches of ASPHALT					
						Approximately 8 ¼ inches of CONCRETE					
						Approximately 12 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888662
Longitude: -87.796363
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 8 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	286
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

LOG OF BORING C-26

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

Sheet 1 of 1

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street, Oak Park, Illinois

WATER LEVELS	
While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 32+49.06
Offset: 7.5' LT
Surface Elev.: 50.14 ft

Elevation (feet)	Depth, (feet)	MATERIAL DESCRIPTION
50	0	Approximately 3 ¼ inches of ASPHALT
		Approximately 8 inches of CONCRETE
		Approximately 12 ¾+ inches of GRAVEL BASE
		DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.

Columns: Elevation (feet), Depth, (feet), Graphic Log, Sample Type, Sample No., Recovery (inches), MATERIAL DESCRIPTION, USCS Classification, DCP Blows per 6-inch, Moisture, %, STANDARD PENETRATION TEST DATA (× Moisture, PL, LL; 0 25 50; STRENGTH, tsf ▲ Qu ✳ Qp; 0 2.0 4.0), Additional Remarks

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888704
Longitude: -87.796794
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

LOG OF BORING C-27

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

Sheet 1 of 1

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street, Oak Park, Illinois

WATER LEVELS	
While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 32+13.82
Offset: 11.2' RT
Surface Elev.: 50.14 ft

Elevation (feet)	Depth, (feet)	MATERIAL DESCRIPTION
50	0	Approximately 2 ½ inches of ASPHALT
		Approximately 8 ½ inches of CONCRETE
		Approximately 13 + inches of GRAVEL BASE
		DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.

Columns: Elevation (feet), Depth, (feet), Graphic Log, Sample Type, Sample No., Recovery (inches), MATERIAL DESCRIPTION, USCS Classification, DCP Blows per 6-inch, Moisture, %, STANDARD PENETRATION TEST DATA (× Moisture, PL, LL; 0 25 50; STRENGTH, tsf ▲ Qu ✳ Qp; 0 2.0 4.0), Additional Remarks

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888652
Longitude: -87.796923
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
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Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING C-28

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 28+39.18
Offset: 20' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.38 ft Approximately 8 inches of ASPHALT					
50						Approximately 16 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888731
Longitude: -87.798300
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING C-29

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 26+46.85
Offset: 2.7' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 52.07 ft Approximately 4 inches of ASPHALT					
						Approximately 8 inches of CONCRETE					
						Approximately 12 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888665
Longitude: -87.799005
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 10 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	288
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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Fax: 847-931-1560

LOG OF BORING C-30

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 24+84.08
Offset: 21' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 50.96 ft					
						Approximately 3 ½ inches of ASPHALT					
						Approximately 9 ¼ inches of CONCRETE					
50						Approximately 11 ¼ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888611
Date Boring Started:	5/22/17	Longitude:	-87.799603
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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LOG OF BORING C-31

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 22+74.47
Offset: 5.8' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.55 ft					
						Approximately 2 ¾ inches of ASPHALT					
						Approximately 7 ½ inches of CONCRETE					
50						Approximately 13 ¾ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888649
Date Boring Started:	5/22/17	Longitude:	-87.800373
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 11 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	289
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

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LOG OF BORING C-32

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 21+02.96
Offset: 16.8' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.09 ft Approximately 2 ½ inches of ASPHALT Approximately 7 inches of CONCRETE					
50				1	12	UNDOCUMENTED FILL: Brown sand and gravel		5,4			
				2	12			5,6			
				3	12			7,8			
	5					End of boring at approximately 3 ¾ feet below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth: 5.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888704
Longitude: -87.801005
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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LOG OF BORING C-33

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 19+07.29
Offset: 17' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 50.70 ft Approximately 9 ½ inches of ASPHALT					
50						Approximately 14 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888595
Longitude: -87.801719
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 12 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	290
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			

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LOG OF BORING C-34

Sheet 1 of 1

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 18+90.77
Offset: 16.7' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 50.87 ft					
50						Approximately 10 ¼ inches of ASPHALT					
						Approximately 13 ¾ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888686
Date Boring Started:	5/22/17	Longitude:	-87.801785
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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LOG OF BORING C-35

Sheet 1 of 1

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 18+32.94
Offset: 3.5' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.03 ft					
50						Approximately 9 ¾ inches of ASPHALT					
						Approximately 14 ¼ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888645
Date Boring Started:	5/22/17	Longitude:	-87.801994
Date Boring Completed:	5/22/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 13 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	291
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

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Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING C-36

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 15+14.33
Offset: 3.1' LT

Surface Elev.: 51.57 ft

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
50	0					Approximately 10 ½ inches of ASPHALT					
						Approximately 13 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888617
Longitude: -87.803164
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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Fax: 847-931-1560

LOG OF BORING C-37

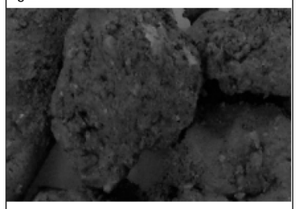
Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 14+38.34
Offset: 17.8' LT

Surface Elev.: 51.29 ft

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
50	0					Approximately 3 ½ inches of ASPHALT					
						Approximately 9 ½ inches of CONCRETE					
				1	12	UNDOCUMENTED FILL: Brown sand and gravel 		5,6			
				2	12			6,6			
				3	12			7,7			
5						End of boring at approximately 4 feet below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth: 5.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888651
Longitude: -87.803445
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
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SOIL BORING LOGS

SCALE: NTS | SHEET 14 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	292
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

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665 Tollgate Road, Unit H
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

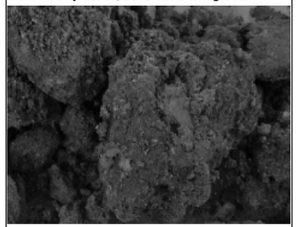
LOG OF BORING C-38

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 14+53.40
Offset: 14.2' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.31 ft Approximately 4 inches of ASPHALT Approximately 12 inches of CONCRETE					
50				1	12	Brown silty CLAY, trace sand and gravel 		3,6			
				2	12		CL	4,5	18		LL = 27 PL = 14
				3	12			6,8			
	5					End of boring at approximately 4 ¼ feet below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth: 5.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888565
Longitude: -87.803386
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

Rubino Engineering, Inc.
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LOG OF BORING C-39

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 11+82.24
Offset: 9.9' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 51.95 ft Approximately 9 ½ inches of ASPHALT					
50						Approximately 14 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/22/17
Date Boring Completed: 5/22/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888608
Longitude: -87.804384
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

The stratification lines represent approximate boundaries. The transition may be gradual.

rubino ENGINEERING INC.

Rubino Engineering, Inc.
665 Tollgate Road, Unit H
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Fax: 847-931-1560

LOG OF BORING C-40

Sheet 1 of 1

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 11+55.47
Offset: 4.6' LT

Surface Elev.: 52.31 ft

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA (Moisture, PL, LL; STRENGTH, tsf: Qu, Qp)	Additional Remarks
	0					Approximately 10 inches of ASPHALT					
						Approximately 14 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Sample Types:	Latitude: 41.888591
Date Boring Started:	5/22/17	Auger Cutting / Shelby Tube	Longitude: -87.804481
Date Boring Completed:	5/22/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

The stratification lines represent approximate boundaries. The transition may be gradual.

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Fax: 847-931-1560

LOG OF BORING T-01

Sheet 1 of 1

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 24+50.09
Offset: 0.13' RT

Surface Elev.: 51.85 ft

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA (Moisture, PL, LL; STRENGTH, tsf: Qu, Qp)	Additional Remarks
	0					Approximately 3 inches of ASPHALT					
						Approximately 9 inches of CONCRETE					
						Approximately 12 + inches of GRAVEL BASE					
50						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Sample Types:	Latitude: 41.888668
Date Boring Started:	5/26/17	Auger Cutting / Shelby Tube	Longitude: -87.799728
Date Boring Completed:	5/26/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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STATE OF ILLINOIS
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SOIL BORING LOGS

SCALE: NTS | SHEET 16 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	294
		CONTRACT NO. 61F36		
	ILLINOIS	FED. AID PROJECT		

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LOG OF BORING T-02

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 24+52.44
Offset: 7.12' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA: Moisture, PL, LL (0, 25, 50); STRENGTH, tsf: Qu, Qp (0, 2.0, 4.0)	Additional Remarks
	0					**Surface Elev.:** 51.74 ft					
						Approximately 2 ½ inches of ASPHALT					
						Approximately 4 inches of CONCRETE					
						AUGER REFUSAL DUE TO UNDERLYING STEEL RAIL TRACK End of boring at approximately ½ foot below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth:	1.0 ft	Sample Types:	Latitude: 41.888688
Date Boring Started:	5/26/17	Auger Cutting / Shelby Tube	Longitude: -87.799719
Date Boring Completed:	5/26/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

The stratification lines represent approximate boundaries. The transition may be gradual.

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LOG OF BORING T-03

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 32+32.81
Offset: 3.89' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA: Moisture, PL, LL (0, 25, 50); STRENGTH, tsf: Qu, Qp (0, 2.0, 4.0)	Additional Remarks
	0					**Surface Elev.:** 50.35 ft					
50						Approximately 2 ¾ inches of ASPHALT					
						Approximately 8 ½ inches of CONCRETE					
						Approximately 12 ¾ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Sample Types:	Latitude: 41.888673
Date Boring Started:	5/26/17	Auger Cutting / Shelby Tube	Longitude: -87.796853
Date Boring Completed:	5/26/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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SOIL BORING LOGS

SCALE: NTS | SHEET 17 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	295
		CONTRACT NO. 61F36		
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LOG OF BORING T-04

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 35+41.30
Offset: 2.18' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 46.42 ft					
						Approximately 3 inches of ASPHALT					
						Approximately 3 ½ inches of BRICK					
						Approximately 8 inches of weathered CONCRETE					
45						Approximately 9 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/26/17
Date Boring Completed: 5/26/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888672
Longitude: -87.795721
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

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LOG OF BORING T-05

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 35+40.71
Offset: 2.57' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 46.59 ft					
						Approximately 4 ½ inches of ASPHALT					
						Approximately 4 inches of BRICK					
						Approximately 7 ½ inches of weathered CONCRETE					
45						Approximately 8 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/26/17
Date Boring Completed: 5/26/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888659
Longitude: -87.795723
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

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SOIL BORING LOGS

SCALE: NTS | SHEET 18 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	296
		CONTRACT NO. 61F36		
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LOG OF BORING T-06

Sheet 1 of 1

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS	
While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 35+40.79
Offset: 5.83' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA ◎; × Moisture; PL; LL (0 – 25 – 50); STRENGTH, tsf ▲ Qu ✳ Qp (0 – 2.0 – 4.0)	Additional Remarks
						Surface Elev.: 46.54 ft					
	0					Approximately 5 ¼ inches of ASPHALT					
						AUGER REFUSAL DUE TO UNDERLYING STEEL RAIL TRACK End of boring at approximately ½ foot below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth:	1.0 ft	Sample Types:	Latitude: 41.888650
Date Boring Started:	5/26/17	Auger Cutting; Shelby Tube	Longitude: -87.795724
Date Boring Completed:	5/26/17	Split-Spoon; Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core; Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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LOG OF BORING T-07

Sheet 1 of 1

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS	
While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 35+40.84
Offset: 7.53' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA ◎; × Moisture; PL; LL (0 – 25 – 50); STRENGTH, tsf ▲ Qu ✳ Qp (0 – 2.0 – 4.0)	Additional Remarks
						Surface Elev.: 46.45 ft					
	0					Approximately 4 inches of ASPHALT					
						Approximately 3 ½ inches of BRICK					
						Approximately 8 inches of weathered CONCRETE					
45						Approximately 8 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Sample Types:	Latitude: 41.888645
Date Boring Started:	5/26/17	Auger Cutting; Shelby Tube	Longitude: -87.795724
Date Boring Completed:	5/26/17	Split-Spoon; Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core; Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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LOG OF BORING T-08

Rubino Job No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 35+41.44
Offset: 7.44' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 46.31 ft					
						Approximately 5 ¼ inches of ASPHALT					
						Approximately 10 inches of CONCRETE					
45						Approximately 8 ¾ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/26/17
Date Boring Completed: 5/26/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888686
Longitude: -87.795719
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

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LOG OF BORING T-09

Rubino Jcb No.: G17.066
Project: Lake Street Pavement Investigation
Location: Lake Street
City, State: Oak Park, Illinois
Client: Village of Oak Park

Drilling Method: Humboldt DCP + Hand Auger
Sampling Method: Grab Sample
Hammer Type: Humboldt DCP
Boring Location: Lake Street
Oak Park, Illinois

WATER LEVELS
While Drilling N/A FT.
Upon Completion N/A FT.
Delay N/A FT.

Station: 40+82.87
Offset: 5.09' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA / STRENGTH, tsf	Additional Remarks
	0					**Surface Elev.:** 43.07 ft					
						Approximately 4 ¼ inches of ASPHALT					
						Approximately 3 ¾ inches of BRICK					
						Approximately 9 inches of weathered CONCRETE					
						Approximately 7 + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth: 2.0 ft
Date Boring Started: 5/26/17
Date Boring Completed: 5/26/17
Logged By: T.R.
Drilling Contractor: Rubino Engineering, Inc.

Sample Types:
Auger Cutting, Split-Spoon, Rock Core, Shelby Tube, Hand Auger, Texas Cone

Latitude: 41.888586
Longitude: -87.793735
Drill Rig: Milwaukee Dymodrill Coring Machine
Remarks: Harlem Avenue to Euclid Avenue

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SOIL BORING LOGS

SCALE: NTS | SHEET 20 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	298
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LOG OF BORING T-10

Sheet 1 of 1

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 40+82.62
Offset: 2.76' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA: Moisture, PL, LL (0, 25, 50) / STRENGTH, tsf: Qu, Qp (0, 2.0, 4.0)	Additional Remarks
	0					**Surface Elev.:** 43.13 ft Approximately 5 inches of ASPHALT AUGER REFUSAL DUE TO UNDERLYING STEEL RAIL TRACK End of boring at approximately ½ foot below existing grade. No free groundwater encountered during drilling operations.					

Completion Depth:	1.0 ft	Sample Types:	Latitude: 41.888592
Date Boring Started:	5/26/17	Auger Cutting / Shelby Tube	Longitude: -87.793735
Date Boring Completed:	5/26/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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LOG OF BORING T-11

Sheet 1 of 1

Rubino Jcb No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger	WATER LEVELS	
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample	While Drilling	N/A FT.
Location:	Lake Street	Hammer Type:	Humboldt DCP	Upon Completion	N/A FT.
City, State:	Oak Park, Illinois	Boring Location:	Lake Street Oak Park, Illinois	Delay	N/A FT.
Client:	Village of Oak Park				

Station: 40+83.06
Offset: 0.13' RT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA: Moisture, PL, LL (0, 25, 50) / STRENGTH, tsf: Qu, Qp (0, 2.0, 4.0)	Additional Remarks
	0					**Surface Elev.:** 43.17 ft Approximately 4 ¼ inches of ASPHALT Approximately 3 ¾ inches of BRICK Approximately 10 inches of weathered CONCRETE Approximately 6 + inches of GRAVEL BASE DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Sample Types:	Latitude: 41.888600
Date Boring Started:	5/26/17	Auger Cutting / Shelby Tube	Longitude: -87.793733
Date Boring Completed:	5/26/17	Split-Spoon / Hand Auger	Drill Rig: Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Rock Core / Texas Cone	Remarks: Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

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PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

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DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 21 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	299
		CONTRACT NO. 61F36		
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Fax: 847-931-1560

LOG OF BORING T-12

Rubino Job No.:	G17.066	Drilling Method:	Humboldt DCP + Hand Auger
Project:	Lake Street Pavement Investigation	Sampling Method:	Grab Sample
Location:	Lake Street	Hammer Type:	Humboldt DCP
City, State:	Oak Park, Illinois	Boring Location:	Lake Street
Client:	Village of Oak Park		Oak Park, Illinois

WATER LEVELS

While Drilling	N/A FT.
Upon Completion	N/A FT.
Delay	N/A FT.

Station: 40+83.57
Offset: 5' LT

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	DCP Blows per 6-inch	Moisture, %	STANDARD PENETRATION TEST DATA (Moisture; PL; LL; 0 25 50) / STRENGTH, tsf (Qu; Qp; 0 2.0 4.0)	Additional Remarks
	0					**Surface Elev.:** 43.04 ft					
						Approximately 4 inches of ASPHALT					
						Approximately 3 ½ inches of BRICK					
						Approximately 6 inches of weathered CONCRETE					
						Approximately 5 inches of WOODEN RAILROAD TIE					
						Approximately 5 ½ + inches of GRAVEL BASE					
						DCP Refusal. Subbase soils could not be tested with DCP due to the presence of gravel. End of boring at approximately 2 feet below existing surface grade. No free groundwater was encountered during drilling operations.					

Completion Depth:	2.0 ft	Latitude:	41.888614
Date Boring Started:	5/26/17	Longitude:	-87.793731
Date Boring Completed:	5/26/17	Drill Rig:	Milwaukee Dymodrill Coring Machine
Logged By:	T.R.	Remarks:	Harlem Avenue to Euclid Avenue
Drilling Contractor:	Rubino Engineering, Inc.		

Sample Types: Auger Cutting; Split-Spoon; Rock Core; Shelby Tube; Hand Auger; Texas Cone

The stratification lines represent approximate boundaries. The transition may be gradual.

FILE NAME = sht-blog.dgn

thomas engineering group service at the highest grade®

USER NAME = TEG	DESIGNED - VJM	REVISED -
	DRAWN - JBH	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - BLP	REVISED -
PLOT DATE = 11/15/2019	DATE - 11/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NTS | SHEET 22 OF 22 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	16-00264-00-PV	COOK	344	300
		CONTRACT NO. 61F36		
	ILLINOIS FED. AID PROJECT			