





LEGEND

-  LIGHTING UNIT
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
-  DIRECT BURIED LIGHTING CABLE 1-4/C 4 AWG
-  LIGHTING UNIT NUMBER

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 1 OF 12**

BNSF RAILWAY



EXISTING DIRECT BURIED 4 COND. NO. 4

REPLACE EXISTING WIRE

SALVAGE LIGHTING UNIT

INSTALL SALVAGED LIGHTING UNIT

☺ TH 10/169 WB

205 ← OFF RAMP

GUARDRAIL

470

475

475

MATCHLINE STA 479+00

☺ TH 10/169 EB

EQUATION:
STA 208+97.37 BK =
STA 471+91.09 AH

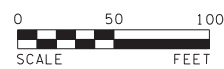
FEED POINT F04V						
NO.	STATION	L	R	LOCATION	TYPE	FOUNDATION
1	207+97	X		TH 10/169 WB	9-40	E

LEGEND

 MnDOT

RIVERDALE DR NW

ALPACA
ST NW



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

REV.	BY	DATE

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JENNIFER MCCOY *Jennifer McCoy*
LIC. NO. 57665 DATE 03-08-2023

DESIGNED
MLW
DRAWN
MLW
CHECKED
JM

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006

TH 10/169 IMPROVEMENTS
LIGHTING PLAN

SHEET
659
OF
685

LEGEND









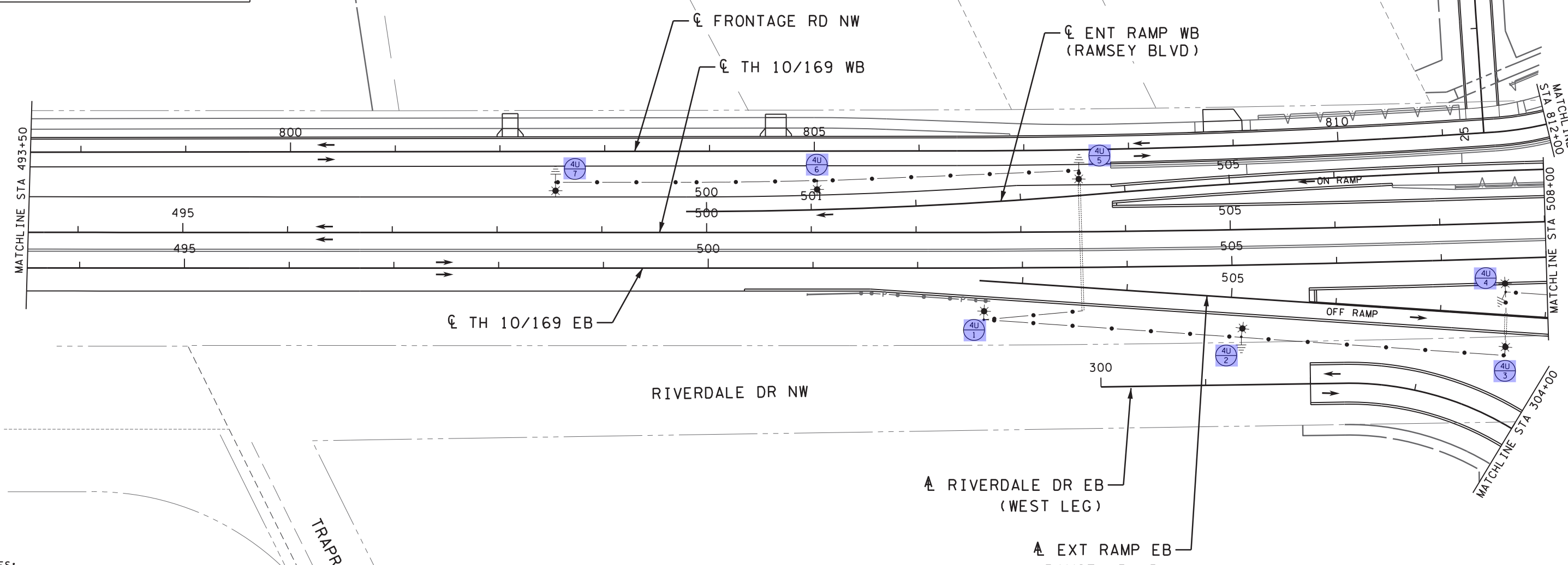
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-  3" NMC CONDUIT (UNLESS OTHERWISE NOTED)
-  HANDHOLE
-  LIGHTING UNIT NUMBER
-  FEED POINT CABINET

EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 2 OF 12



GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF CONNECTION OF POWER FOR THE LIGHTING SYSTEMS WITH CONNEXUS ENERGY. CONTACT MARK JONES AT 763-323-2837.
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LEGEND

MnDOT

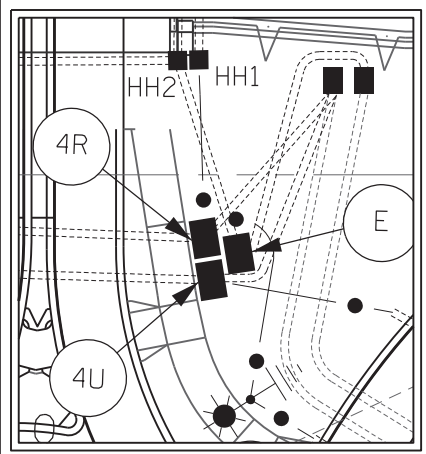
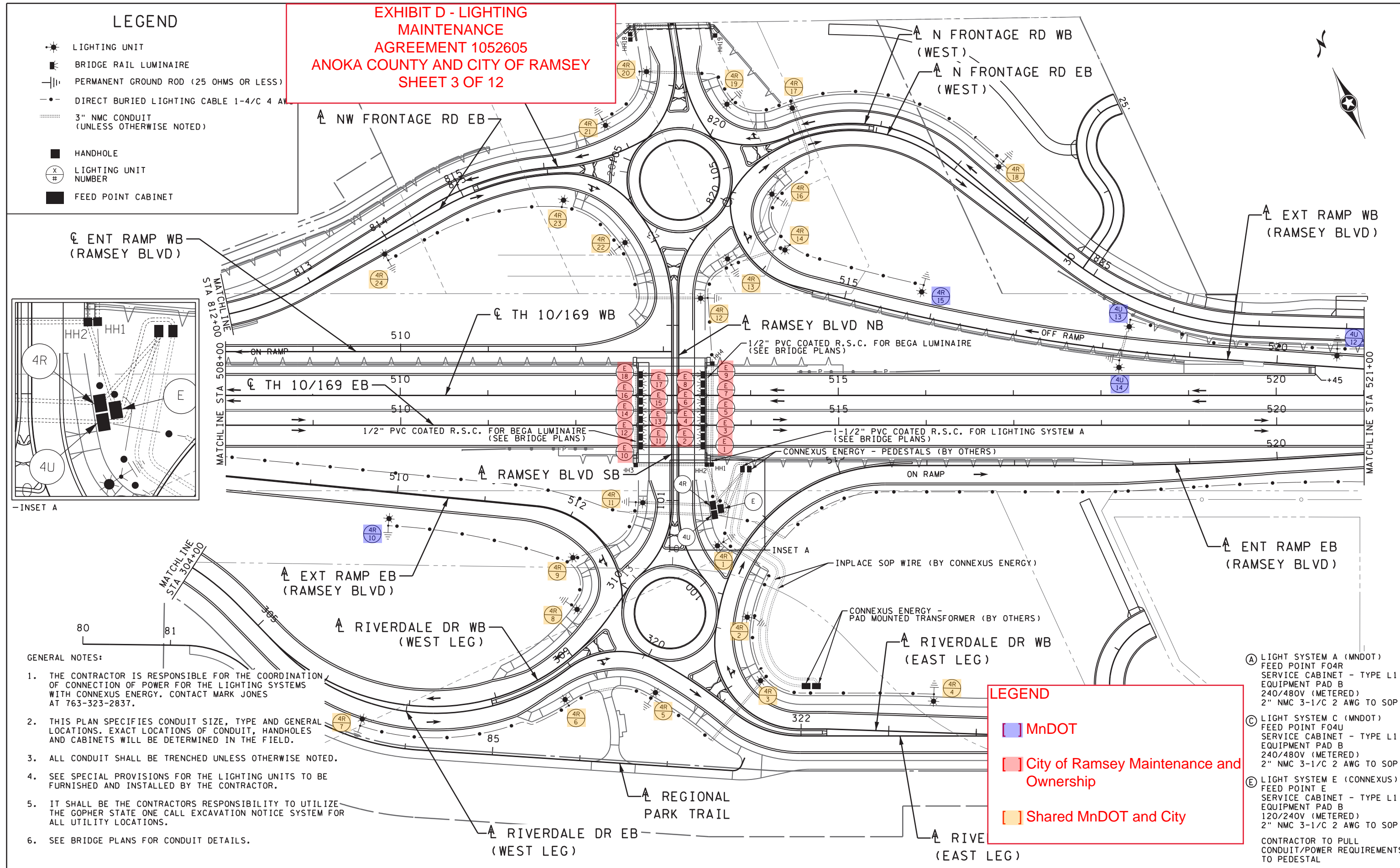
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6/1/2023

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LEGEND

- ☼ LIGHTING UNIT
- ▬ BRIDGE RAIL LUMINAIRE
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- FEED POINT CABINET

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 3 OF 12**



-INSET A

GENERAL NOTES:

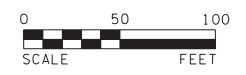
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6. SEE BRIDGE PLANS FOR CONDUIT DETAILS.

LEGEND

- MnDOT
- City of Ramsey Maintenance and Ownership
- Shared MnDOT and City

- (A) LIGHT SYSTEM A (MNDOT)
FEED POINT F04R
SERVICE CABINET - TYPE L1
EQUIPMENT PAD B
240/480V (METERED)
2" NMC 3-1/C 2 AWG TO SOP
 - (C) LIGHT SYSTEM C (MNDOT)
FEED POINT F04U
SERVICE CABINET - TYPE L1
EQUIPMENT PAD B
240/480V (METERED)
2" NMC 3-1/C 2 AWG TO SOP
 - (E) LIGHT SYSTEM E (CONNEXUS)
FEED POINT E
SERVICE CABINET - TYPE L1
EQUIPMENT PAD B
120/240V (METERED)
2" NMC 3-1/C 2 AWG TO SOP
- CONTRACTOR TO PULL CONDUIT/POWER REQUIREMENTS TO PEDESTAL

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6/1/2023



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



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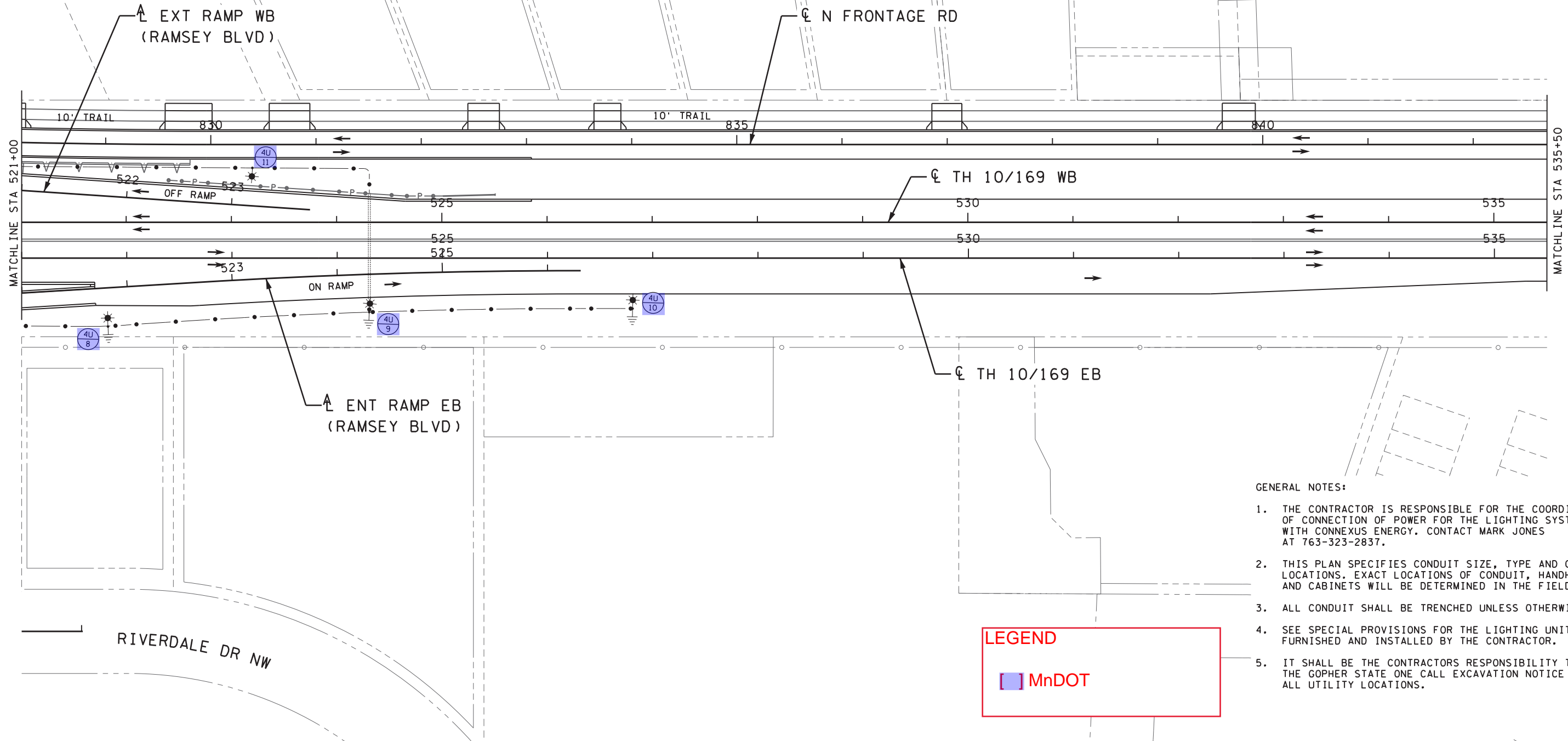
JENNIFER MCCOY
LIC. NO. 57665
DATE 03-08-2023

DESIGNED MLW	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006 TH 10/169 IMPROVEMENTS	SHEET 662 OF 685
DRAWN MLW		
CHECKED JM		
LIGHTING PLAN		

LEGEND

-  LIGHTING UNIT
-  BRIDGE RAIL LUMINAIRE
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
-  DIRECT BURIED LIGHTING CABLE 1-4/C 4 AWG
-  3" NMC CONDUIT (UNLESS OTHERWISE NOTED)
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-  LIGHTING UNIT NUMBER
-  FEED POINT CABINET

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 4 OF 12**











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LEGEND

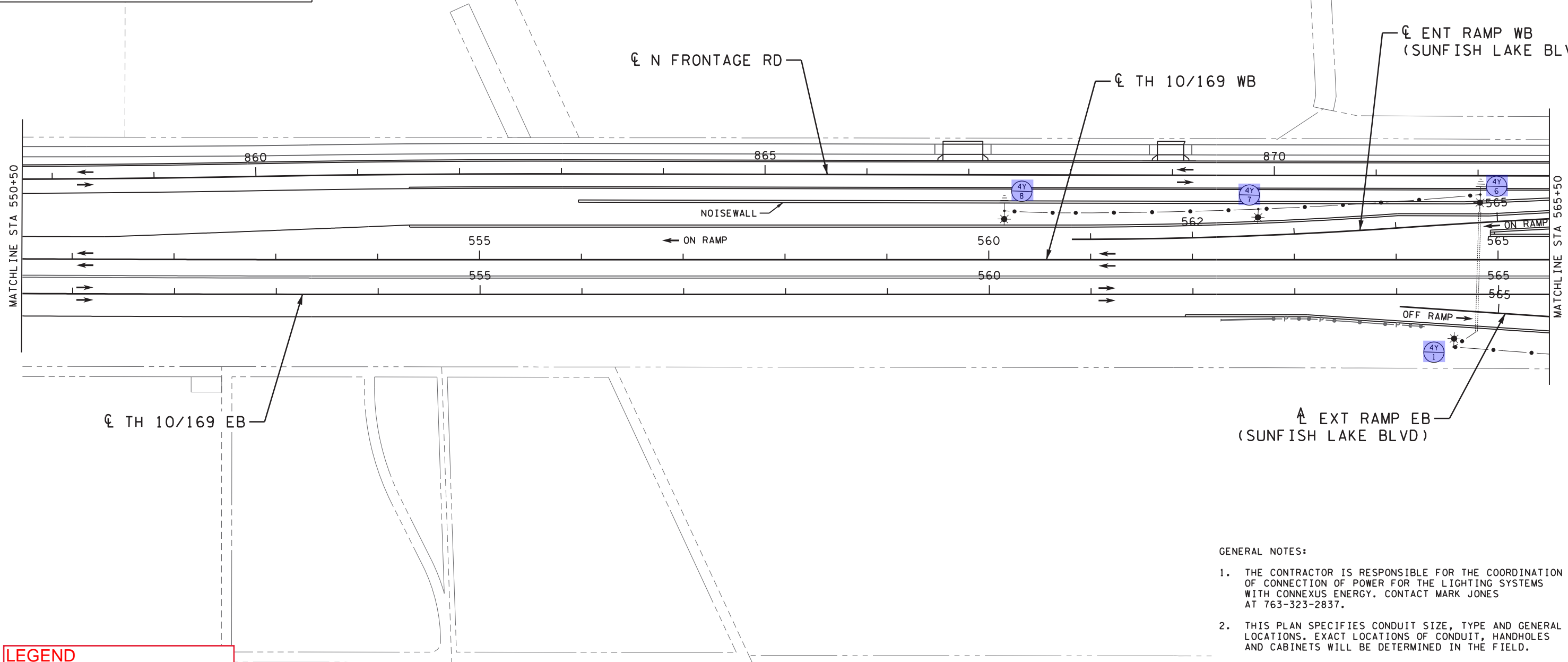
 MnDOT

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LEGEND

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**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 5 OF 12**



LEGEND
 MnDOT

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BOLTON & MENK
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REV.	BY	DATE

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JENNIFER MCCOY *Jennifer McCoy*
LIC. NO. 57665 DATE 03-08-2023

DESIGNED MLW	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006 TH 10/169 IMPROVEMENTS	SHEET 665 OF 685
DRAWN MLW		
CHECKED JM		

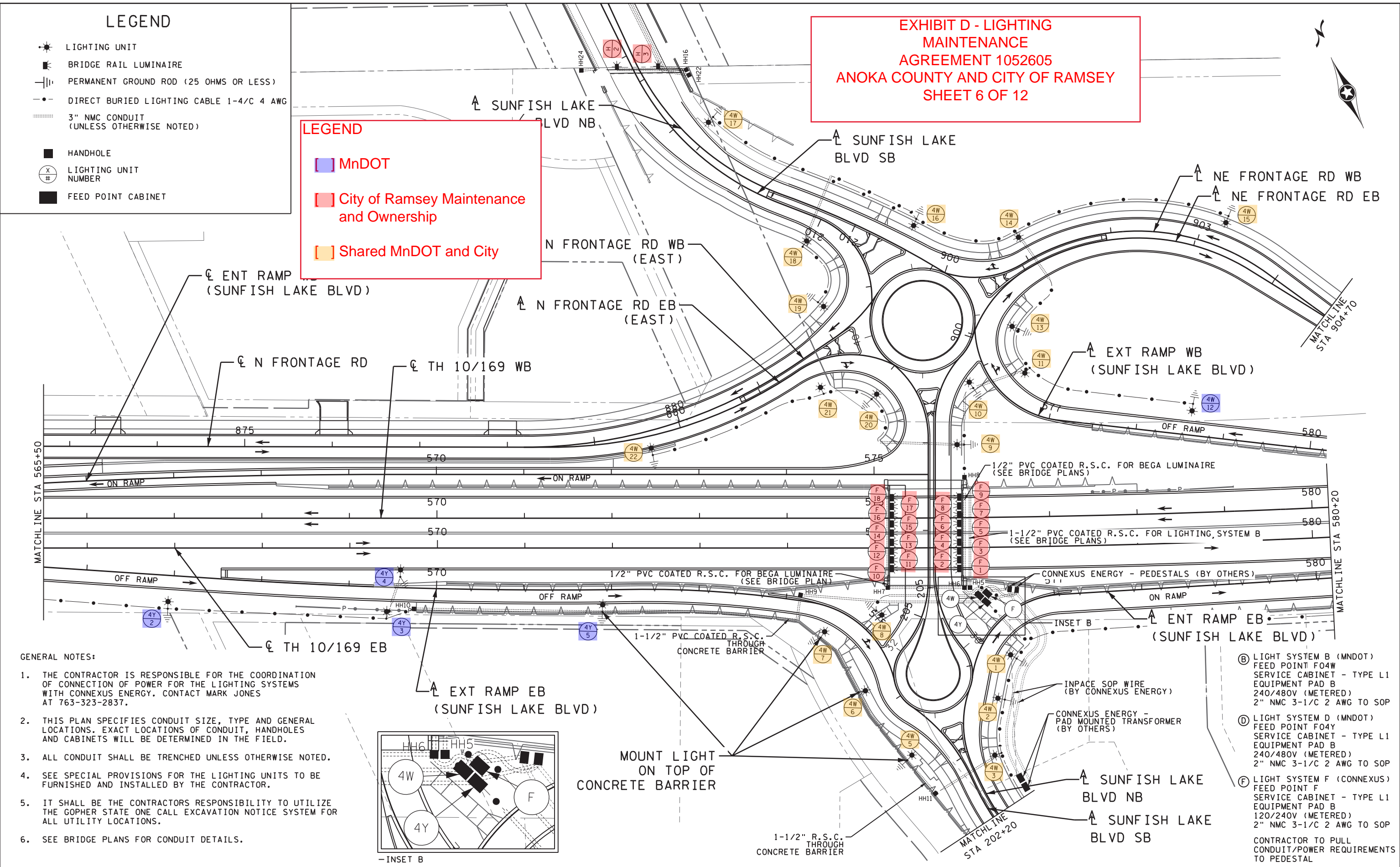
LEGEND

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- HANDHOLE
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- FEED POINT CABINET

LEGEND

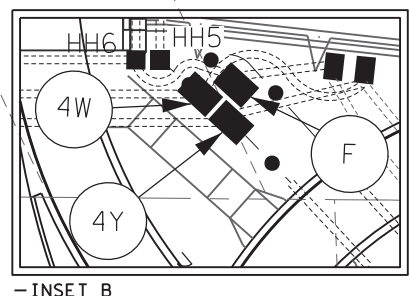
- MnDOT
- City of Ramsey Maintenance and Ownership
- Shared MnDOT and City

EXHIBIT D - LIGHTING MAINTENANCE AGREEMENT 1052605 ANOKA COUNTY AND CITY OF RAMSEY SHEET 6 OF 12



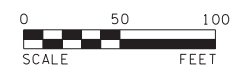
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- (B) LIGHT SYSTEM B (MNDOT) FEED POINT F04W SERVICE CABINET - TYPE L1 EQUIPMENT PAD B 240/480V (METERED) 2" NMC 3-1/C 2 AWG TO SOP
 - (D) LIGHT SYSTEM D (MNDOT) FEED POINT F04Y SERVICE CABINET - TYPE L1 EQUIPMENT PAD B 240/480V (METERED) 2" NMC 3-1/C 2 AWG TO SOP
 - (E) LIGHT SYSTEM F (CONNEXUS) FEED POINT F SERVICE CABINET - TYPE L1 EQUIPMENT PAD B 120/240V (METERED) 2" NMC 3-1/C 2 AWG TO SOP
- CONTRACTOR TO PULL CONDUIT/POWER REQUIREMENTS TO PEDESTAL

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6/1/2023



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



DESIGNED MLW
DRAWN MLW
CHECKED JM

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
TH 10/169 IMPROVEMENTS

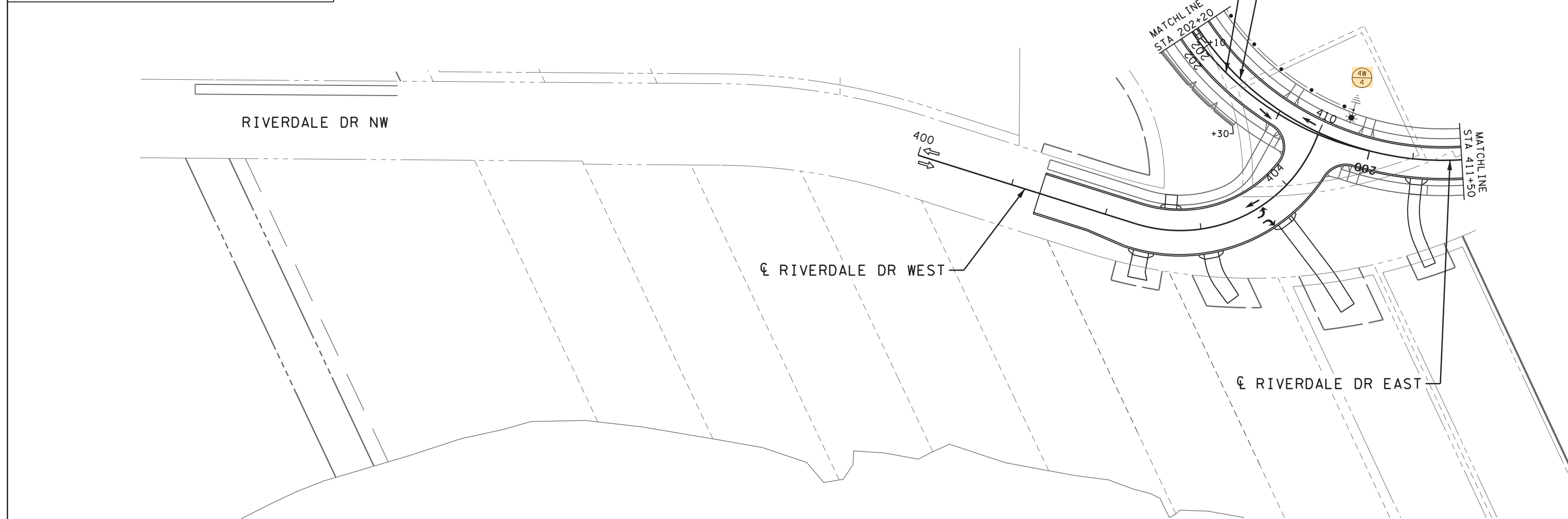
LIGHTING PLAN

SHEET 666 OF 685

LEGEND

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-  BRIDGE RAIL LUMINAIRE
-  PERMANENT GROUND ROD (25 OHMS OR LESS)
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-  HANDHOLE
-  LIGHTING UNIT NUMBER
-  FEED POINT CABINET

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 7 OF 12**



LEGEND

-  Shared MnDOT and City

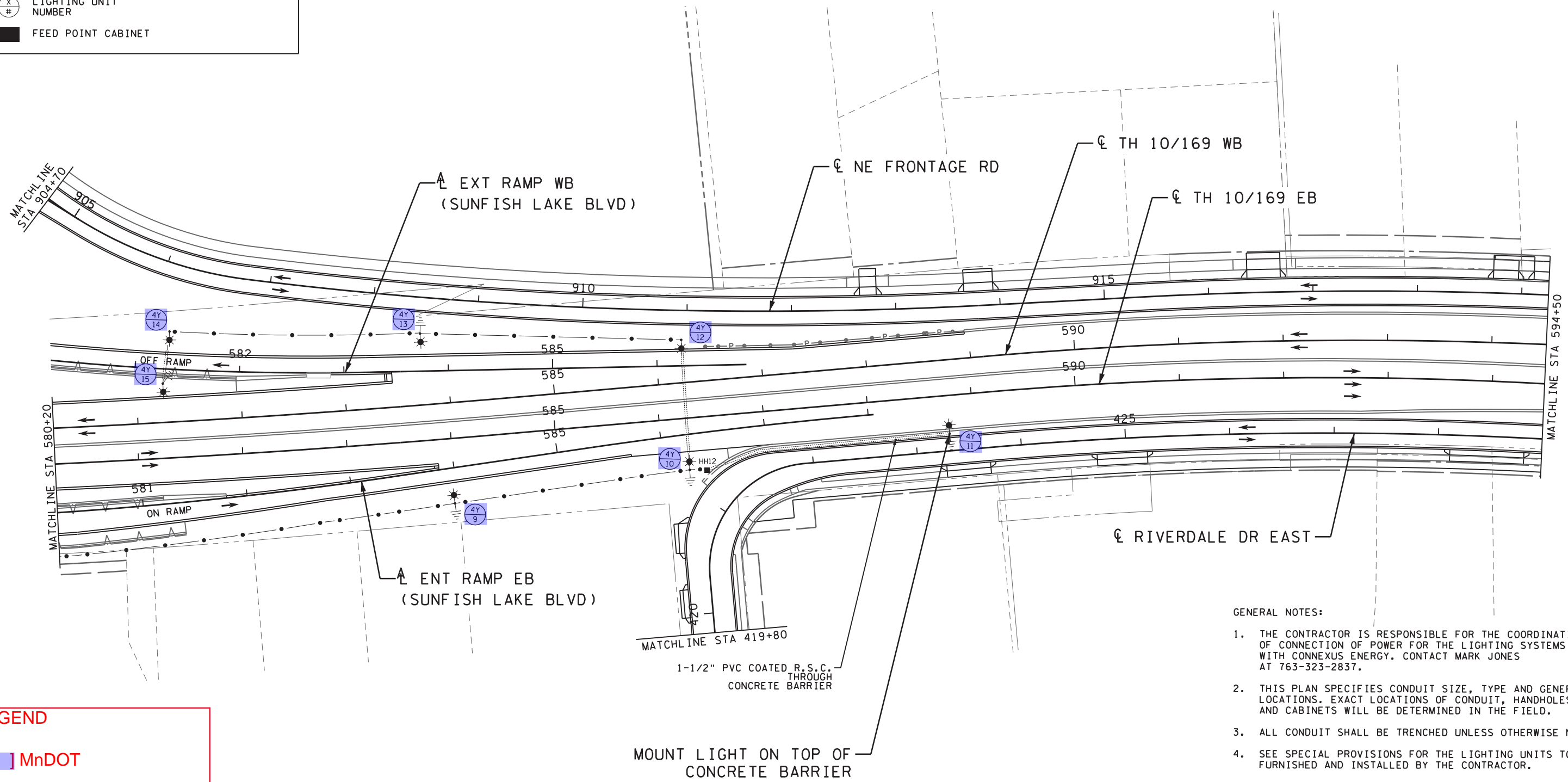
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LEGEND

- ☼ LIGHTING UNIT
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**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 8 OF 12**





LEGEND
 MnDOT

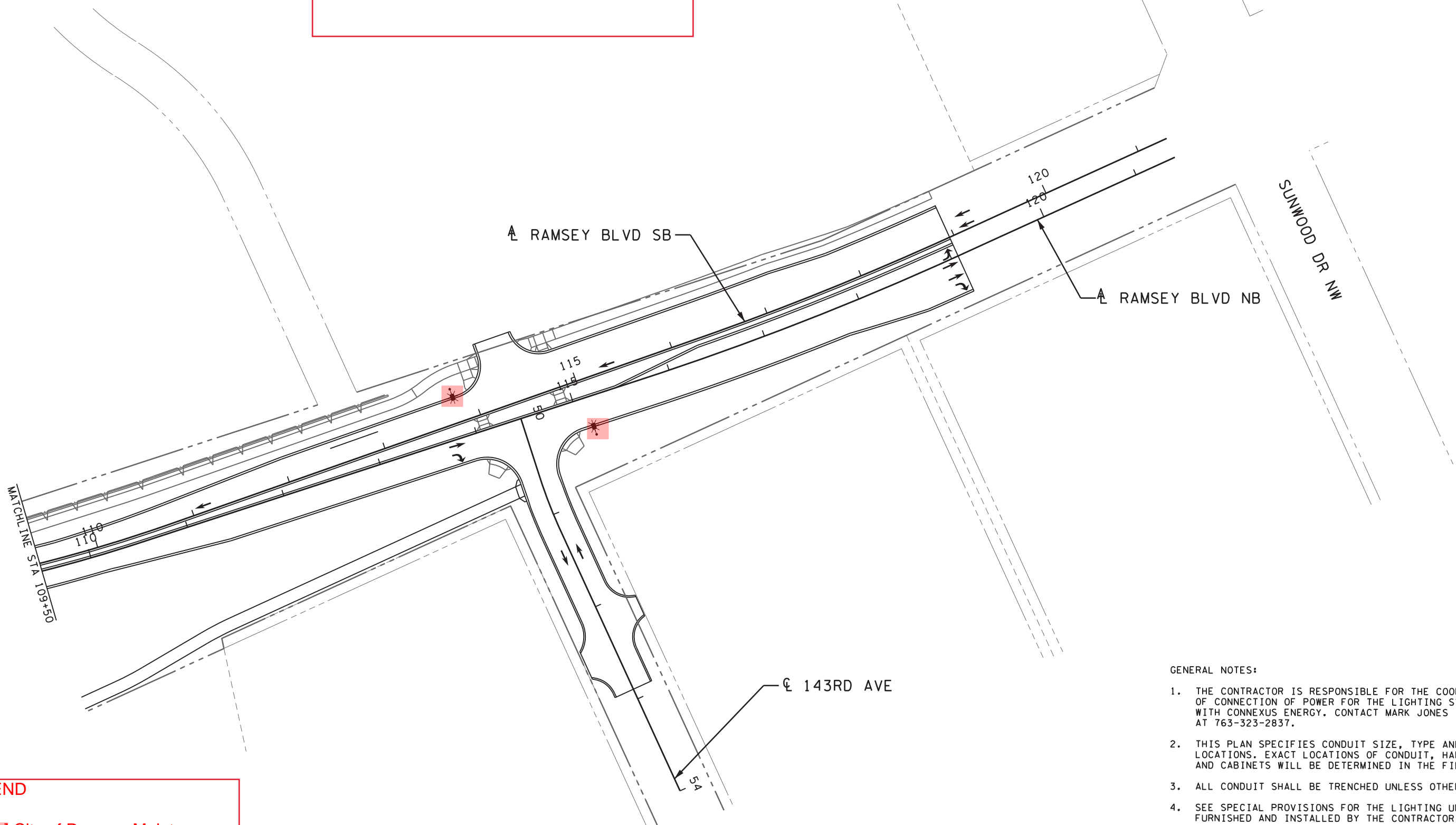
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6/1/2023

LEGEND

-  LIGHTING UNIT (BY CONNEXUS)
-  LIGHTING UNIT NUMBER

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 9 OF 12**



LEGEND

 City of Ramsey Maintenance and Ownership

GENERAL NOTES:

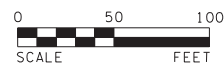
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6/1/2023

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JENNIFER MCCOY
LIC. NO. 57665



Jennifer McCoy
DATE 03-08-2023

DESIGNED MLW
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S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
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TH 10/169 IMPROVEMENTS
LIGHTING PLAN

SHEET
669
OF
685

LEGEND

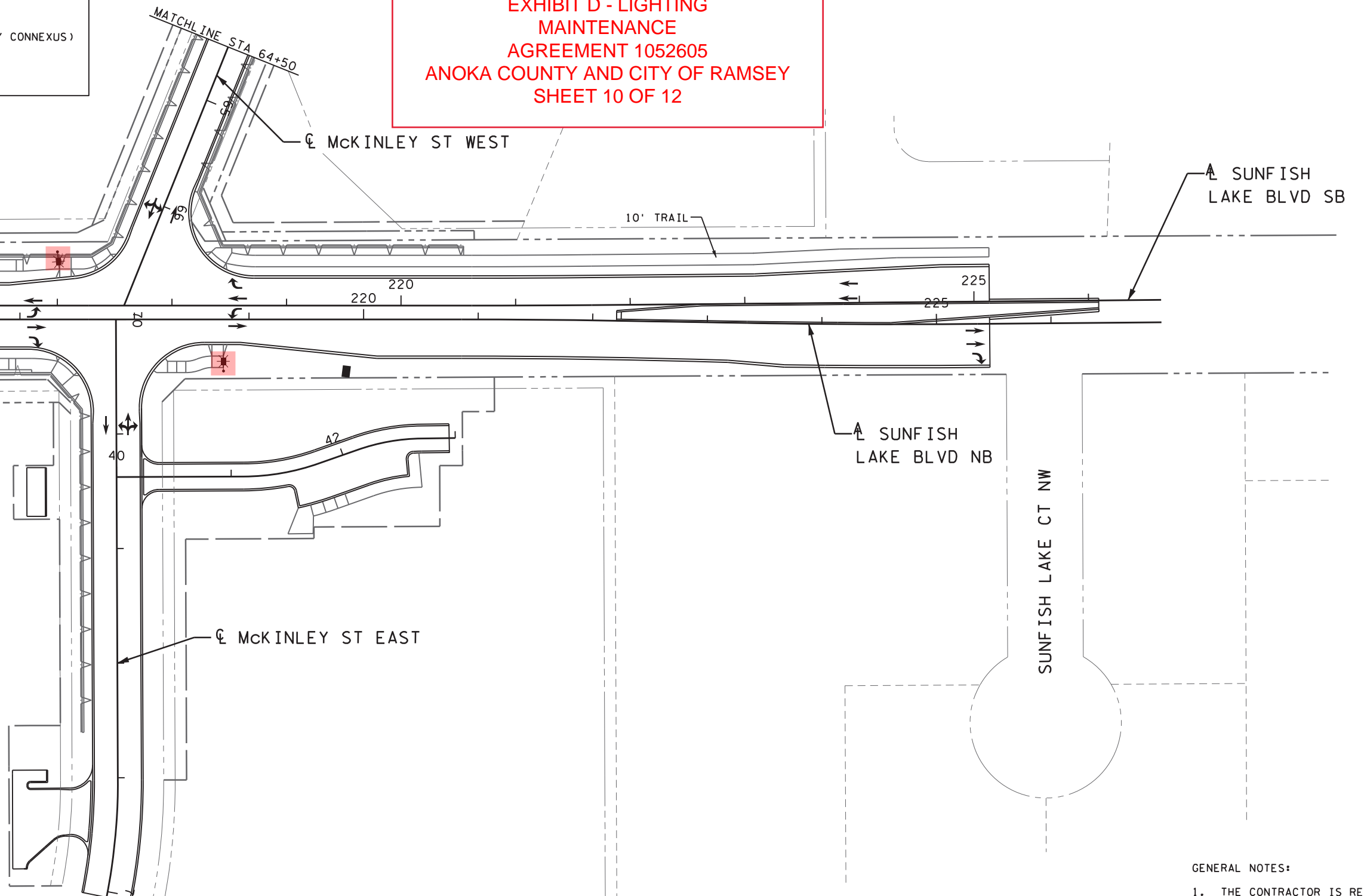
-  LIGHTING UNIT (BY CONNEXUS)
-  LIGHTING UNIT NUMBER

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 10 OF 12**



MATCHLINE STA 215+50

MATCHLINE STA 64+50

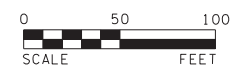


LEGEND

■ City of Ramsey Maintenance and Ownership

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



REV.	BY	DATE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

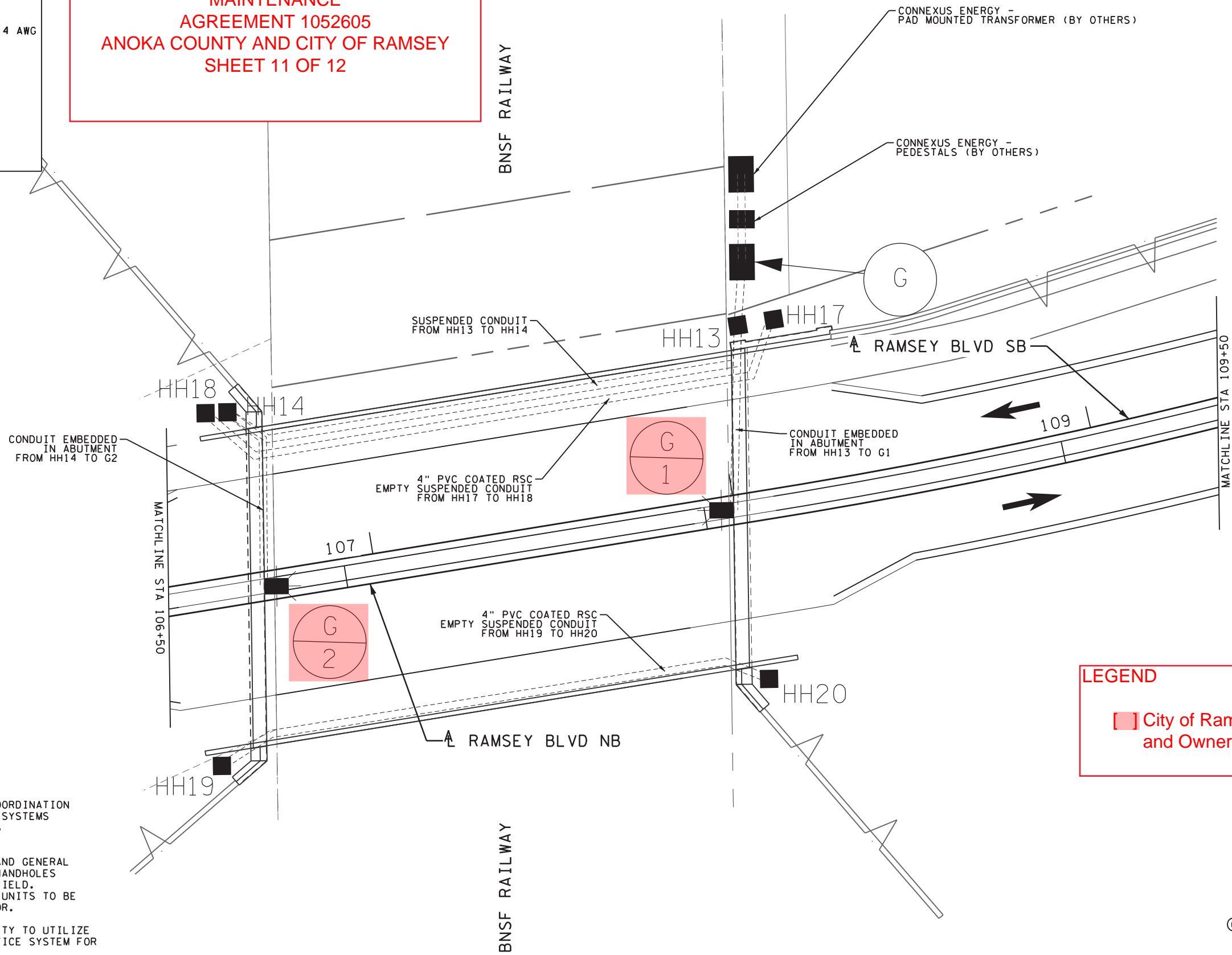
JENNIFER MCCOY
LIC. NO. 57665 DATE 03-08-2023

DESIGNED MLW	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006 TH 10/169 IMPROVEMENTS	SHEET 670
DRAWN MLW		OF 685
CHECKED JM		LIGHTING PLAN

LEGEND

-  TYPE L - LED UNDERPASS LUMINAIRE
-  DIRECT BURIED LIGHTING CABLE 1-4/C 4 AWG
-  2" PVC COATED RSC CONDUIT
-  HANDHOLE
-  LIGHTING UNIT NUMBER
-  FEED POINT CABINET

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 11 OF 12**



LEGEND

City of Ramsey Maintenance and Ownership

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF CONNECTION OF POWER FOR THE LIGHTING SYSTEMS WITH CONNXUS ENERGY. CONTACT MARK JONES AT 763-323-2837.
2. THIS PLAN SPECIFIES CONDUIT SIZE, TYPE AND GENERAL LOCATIONS. EXACT LOCATIONS OF CONDUIT, HANDHOLES AND CABINETS WILL BE DETERMINED IN THE FIELD.
3. SEE SPECIAL PROVISIONS FOR THE LIGHTING UNITS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO UTILIZE THE GOPHER STATE ONE CALL EXCAVATION NOTICE SYSTEM FOR ALL UTILITY LOCATIONS.
5. SEE BRIDGE PLANS FOR CONDUIT DETAILS.

© LIGHT SYSTEM G (CONNEXUS)
FEED POINT G
SERVICE CABINET - TYPE L1
EQUIPMENT PAD B
120/240V (METERED)
2" NMC 3-1/C TO SOP
CONTRACTOR TO PULL
CONDUIT/POWER REQUIREMENTS
TO PEDESTAL

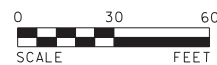
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6/1/2023



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

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JENNIFER McCOY *Jennifer McCoy*
LIC. NO. 57665 DATE 03-08-2023







DESIGNED	MLW
DRAWN	MLW
CHECKED	JM

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
TH 10/169 IMPROVEMENTS

LIGHTING PLAN

SHEET
671
OF
685

LEGEND

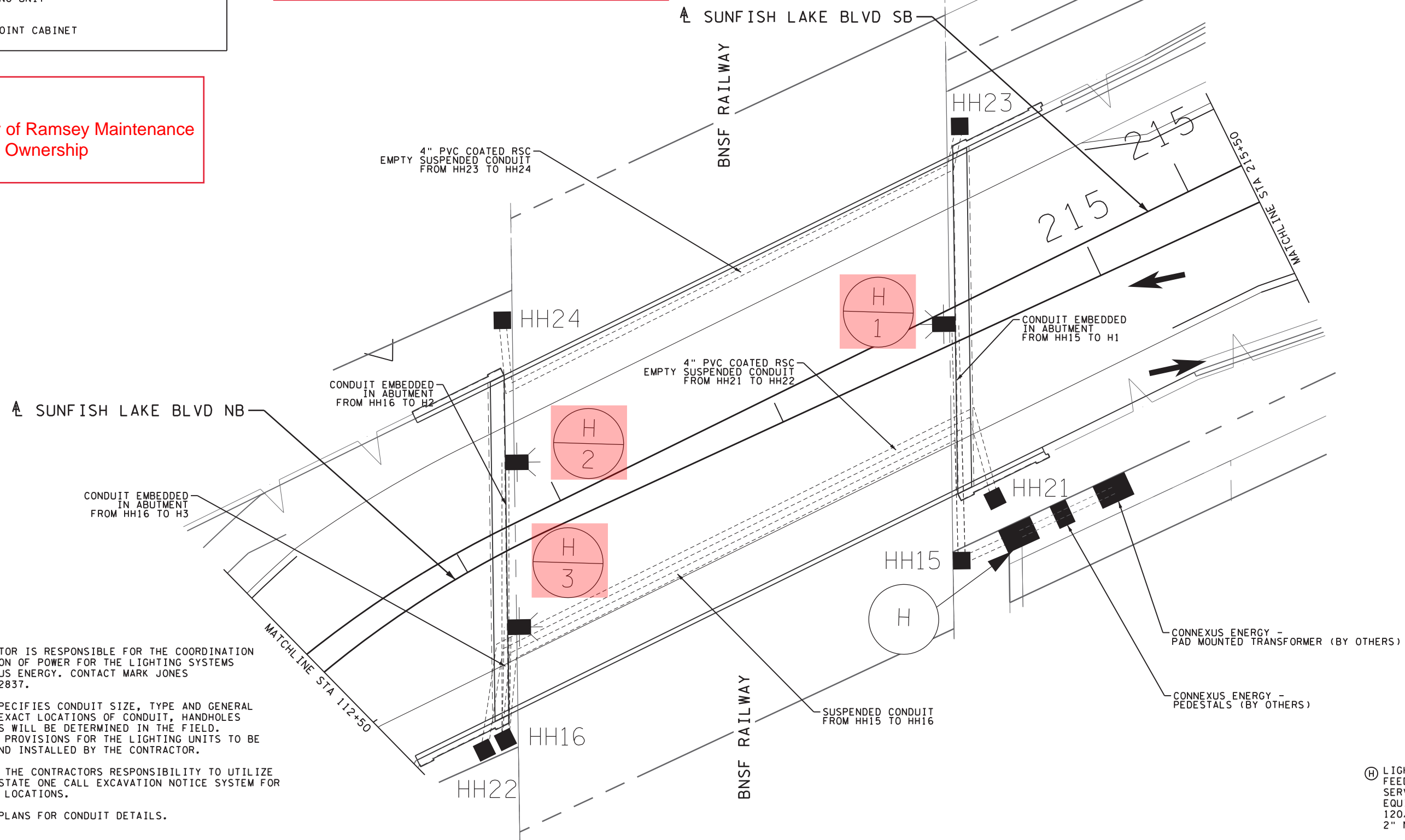
-  TYPE L - LED UNDERPASS LUMINAIRE
-  DIRECT BURIED LIGHTING CABLE 1-4/C 4 AWG
-  2" PVC COATED RSC CONDUIT
-  HANDHOLE
-  LIGHTING UNIT NUMBER
-  FEED POINT CABINET

**EXHIBIT D - LIGHTING
MAINTENANCE
AGREEMENT 1052605
ANOKA COUNTY AND CITY OF RAMSEY
SHEET 12 OF 12**



LEGEND

City of Ramsey Maintenance and Ownership



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CONNEXUS ENERGY - PAD MOUNTED TRANSFORMER (BY OTHERS)
CONNEXUS ENERGY - PEDESTALS (BY OTHERS)

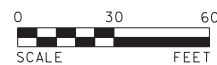
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6/1/2023

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LIGHTING PLAN

SHEET
672
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