






**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

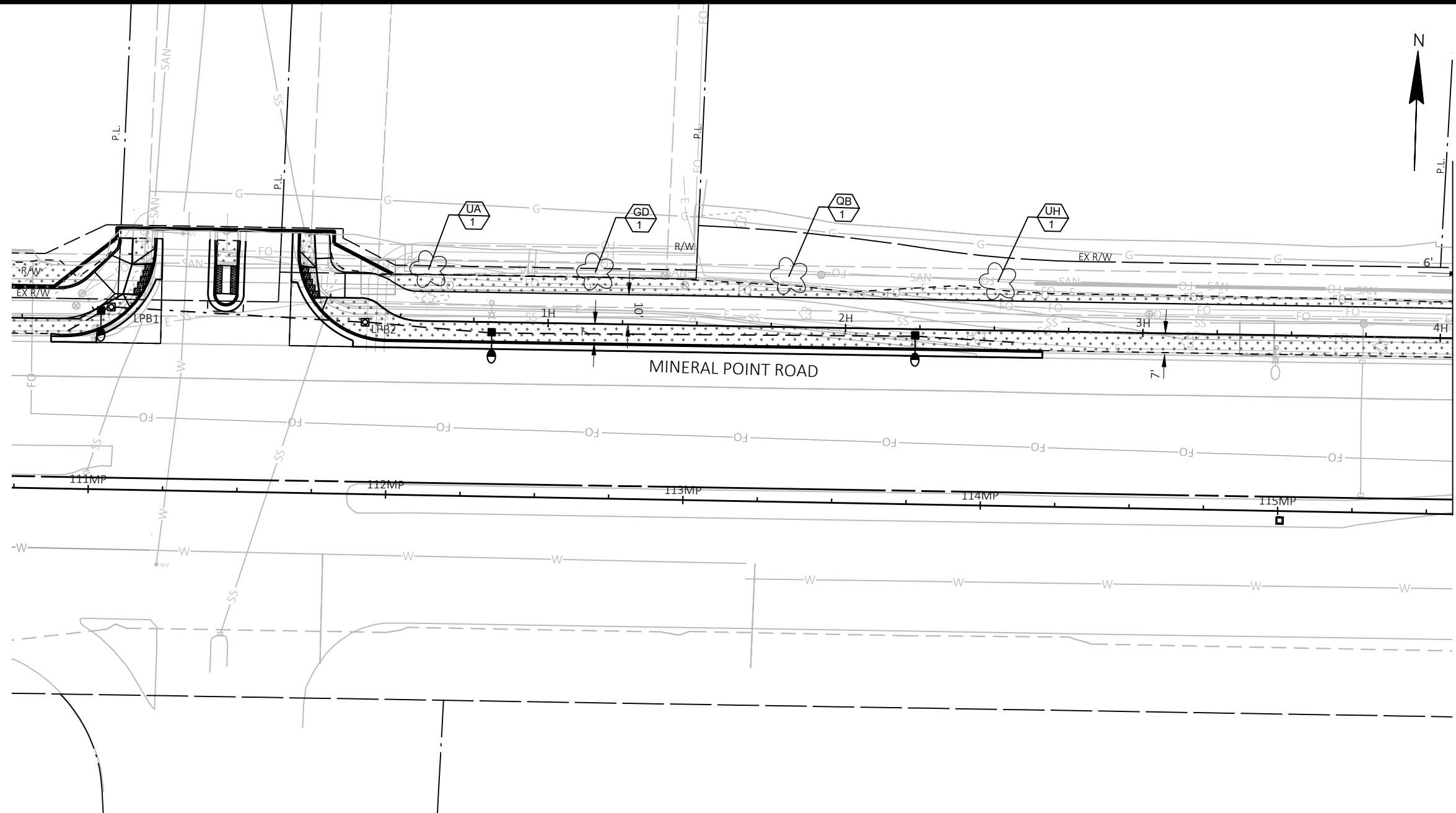
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60631225P	Designed By: AECOM	2023-02-06	
Scale: 1 IN:40 FT			

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C








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L-10



MATCHLINE STA 4'+H+00

**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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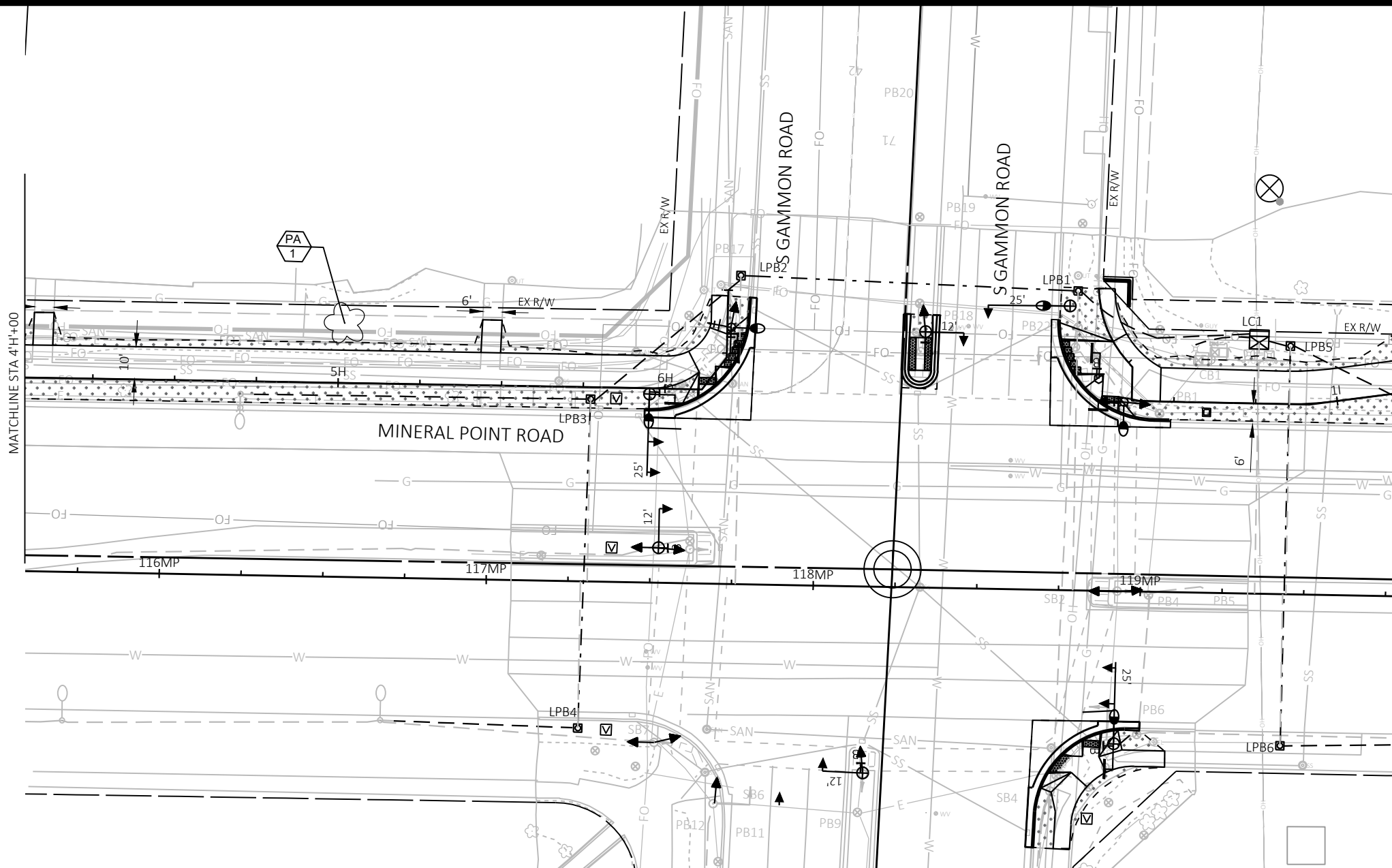
MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-06	Scale: 1 IN=40 FT

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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C








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L-11



**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

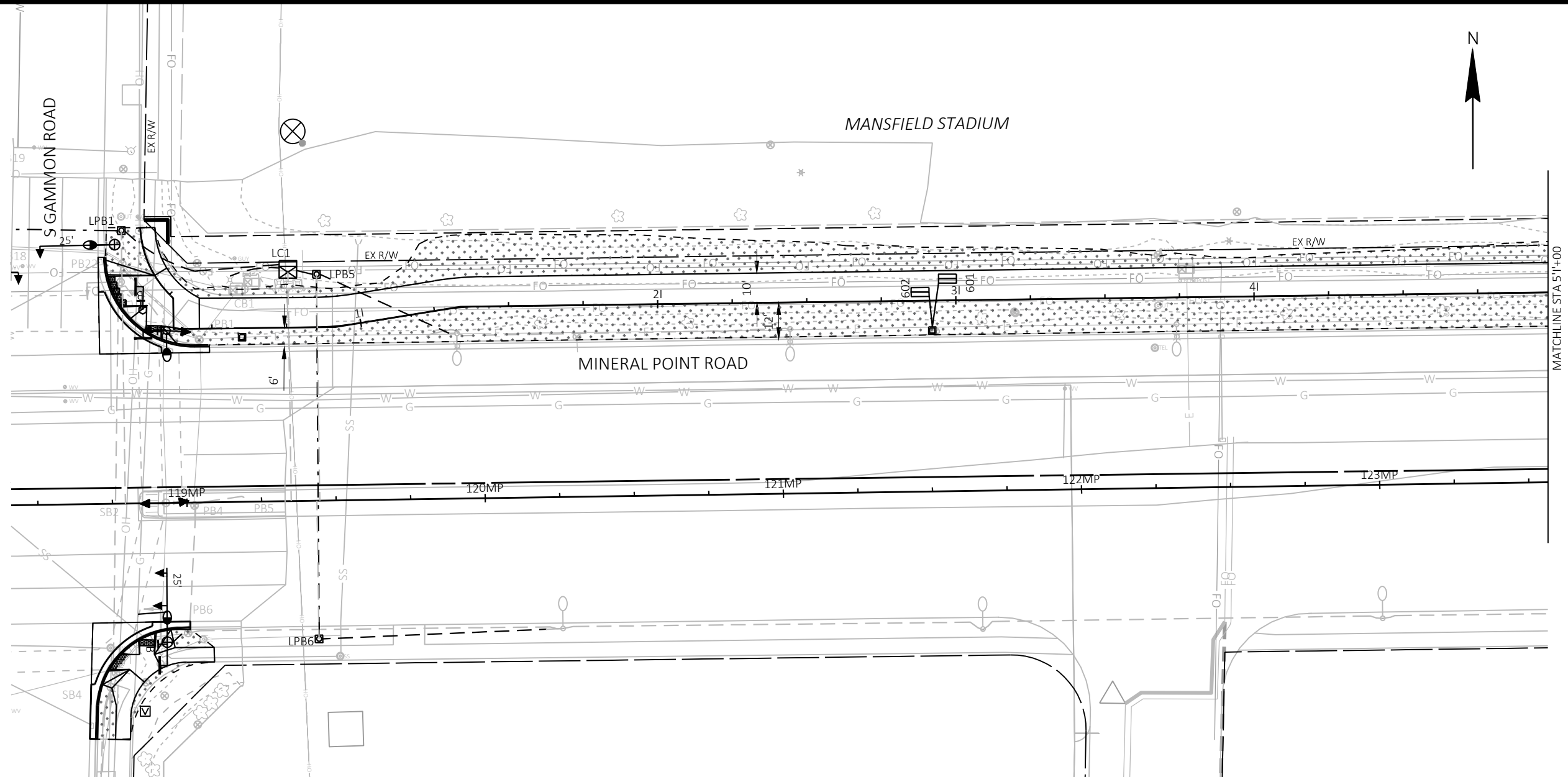
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	Designed By: AECOM	2023-02-06	
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**60631225P**  
 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
**CITY OF MADISON**  
 CONTRACT NO: 60631225C








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L-12



**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

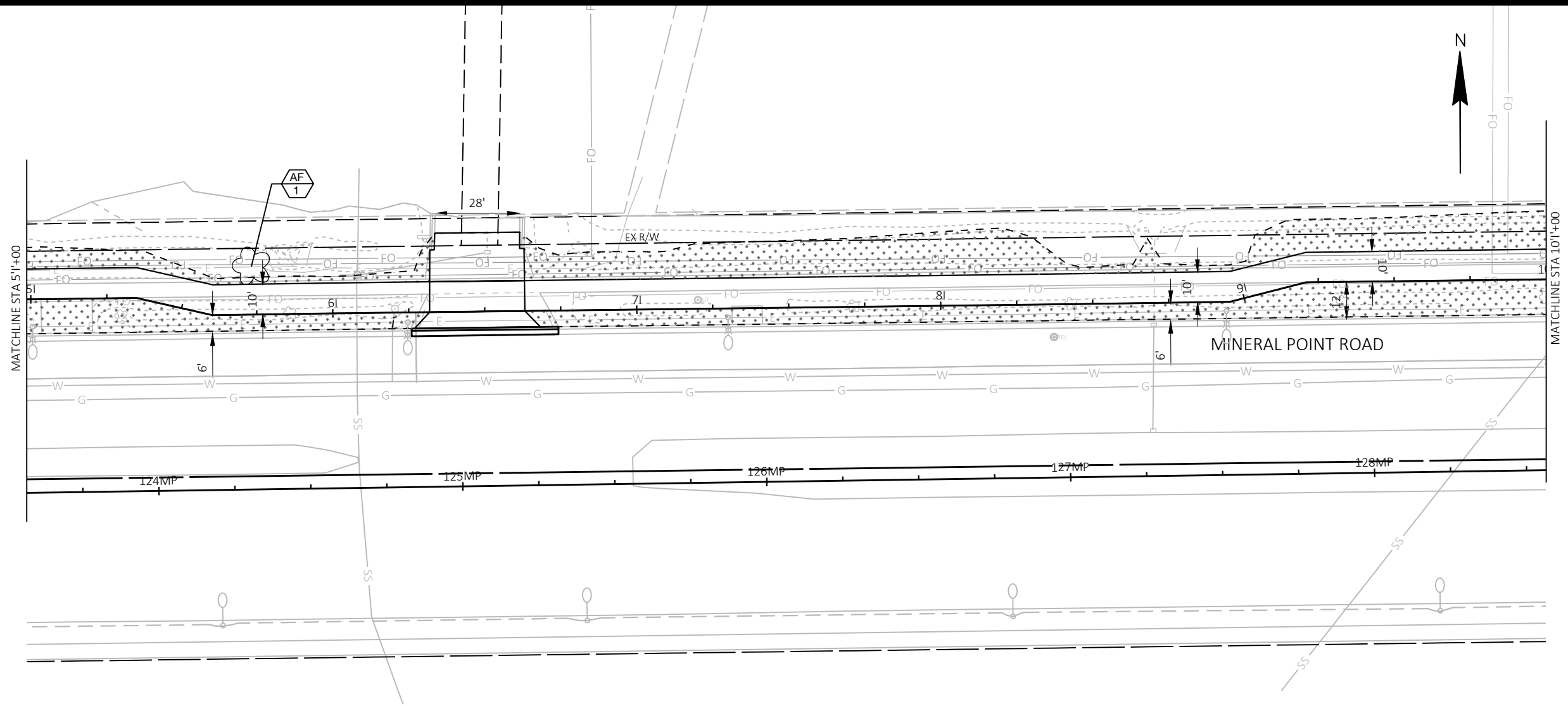
MARK	REVISION	DATE	BY
	Designed By: AECOM	2023-02-06	
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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P  
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MARK	REVISION	DATE	BY
	Designed By: AECOM	2023-02-06	
	60631225P		






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 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



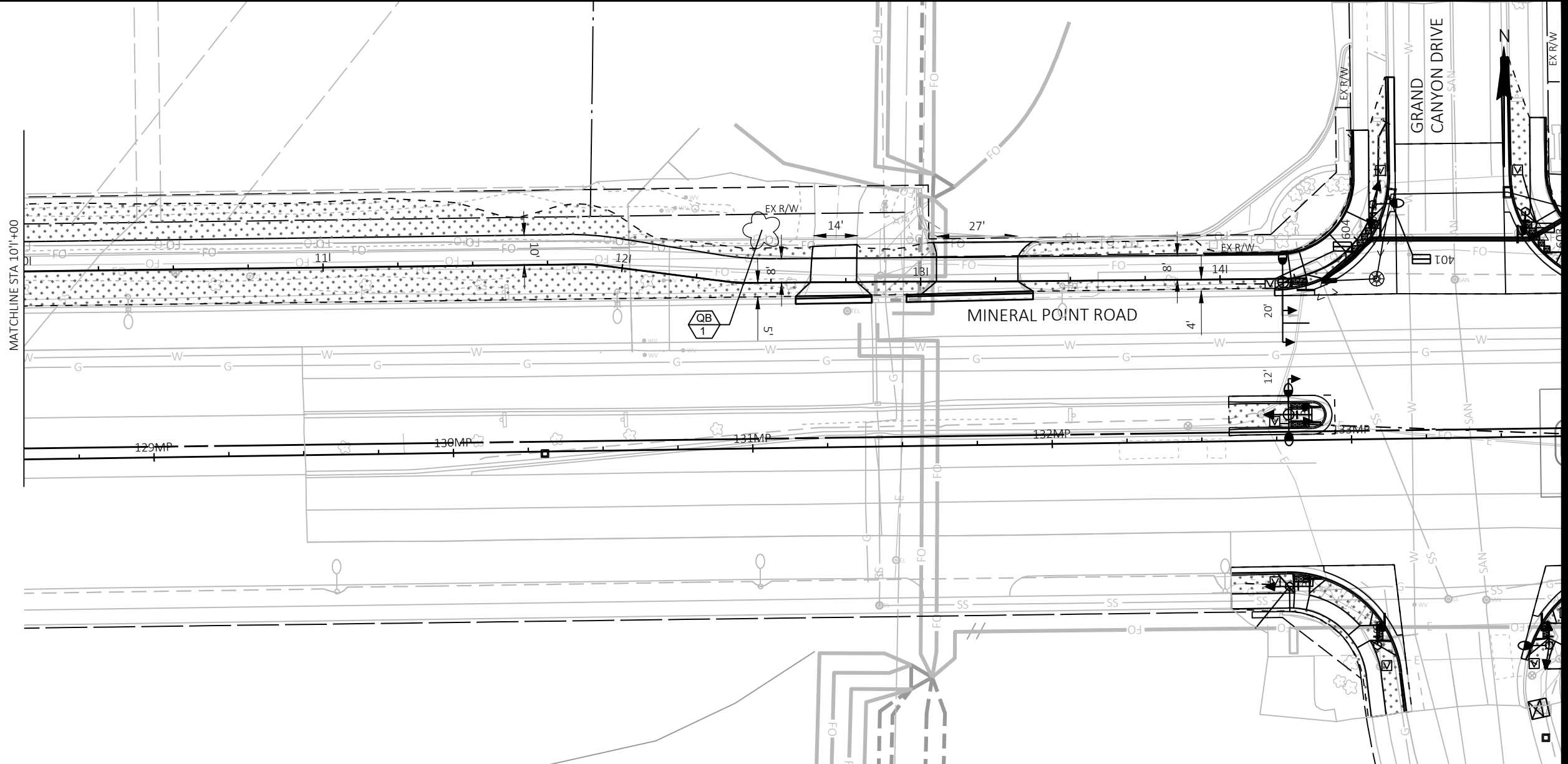
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L-14






**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

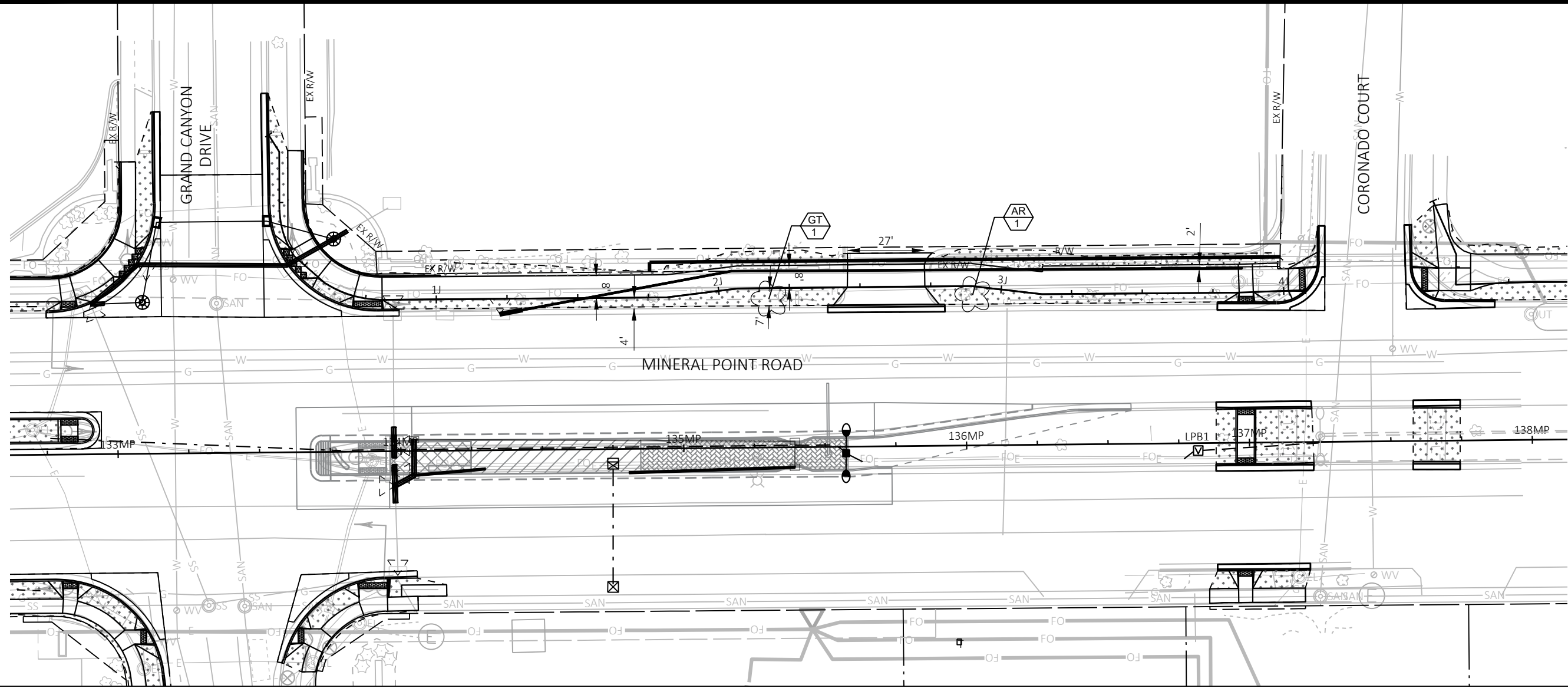
NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY
Designed By: AECOM	Date: 2023-02-06		
60631225P			






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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P  
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**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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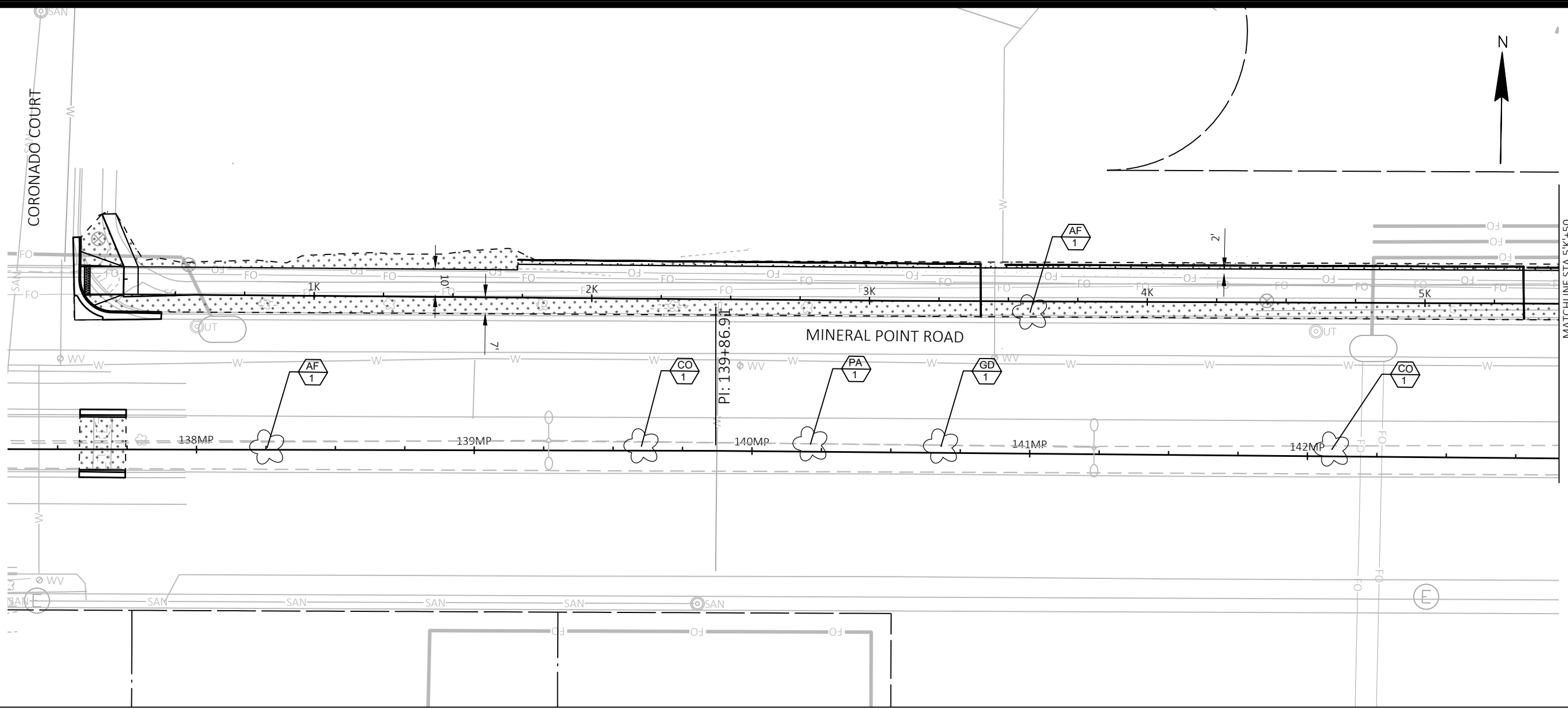
MARK	REVISION	DATE	BY

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON








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MARK	REVISION	DATE	BY
	Designed By: AECOM	2023-02-06	60631225P
	Date:	2023-02-06	Scale: 1 IN=40 FT

**60631225P**  
 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
**CITY OF MADISON**  
 CONTRACT NO: 60631225C

**LANDSCAPING LEGEND**

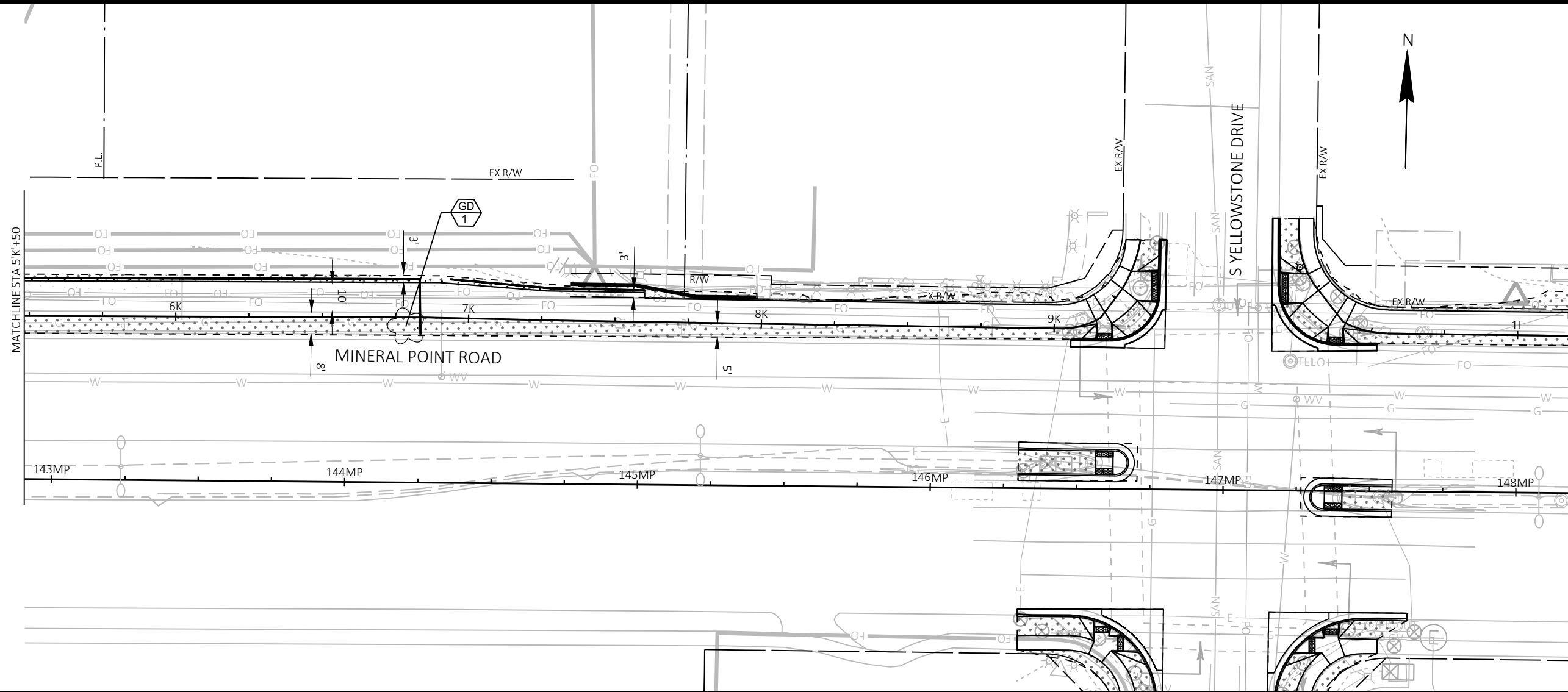
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-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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


60631225P

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**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

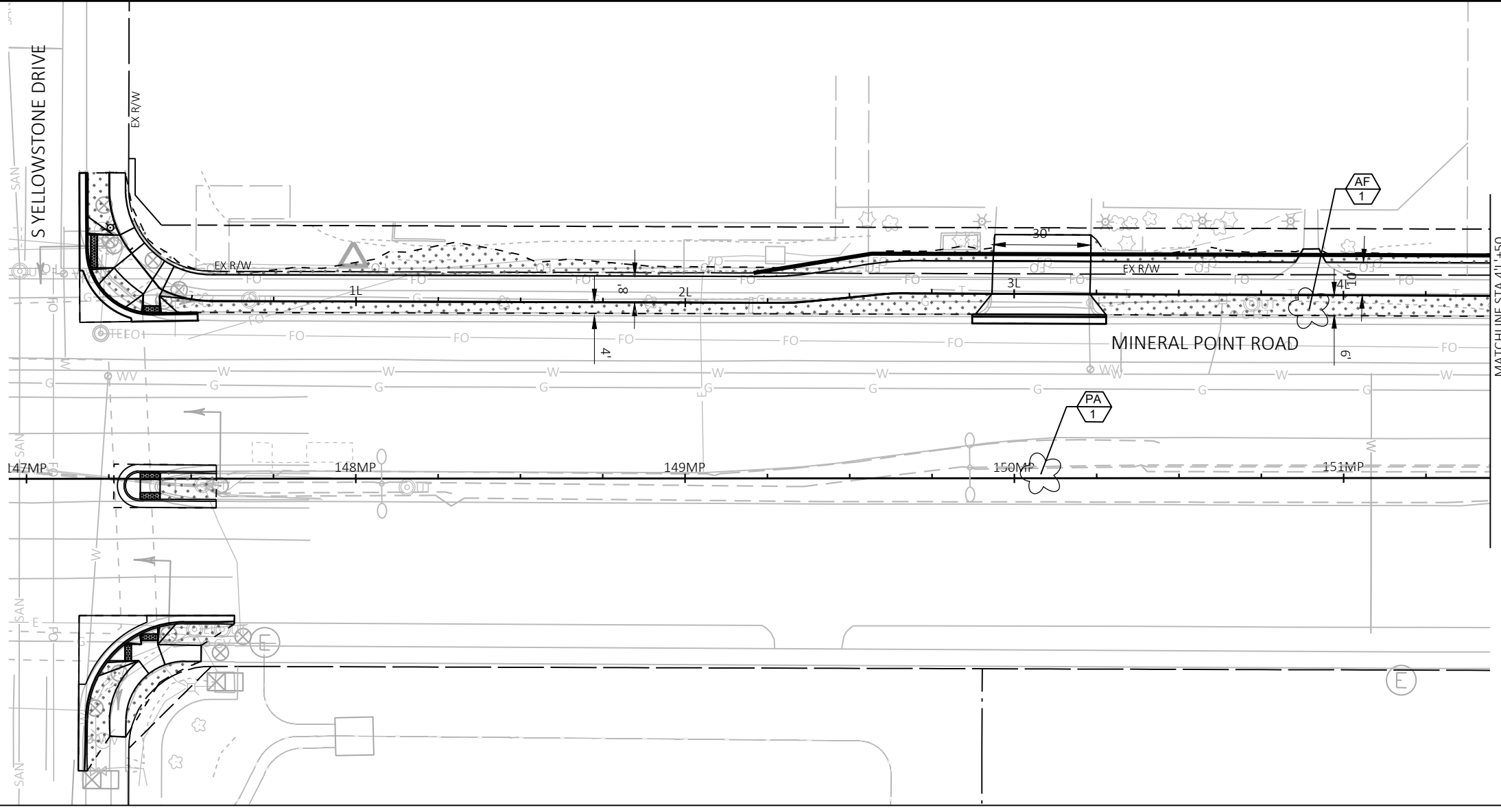
MARK	REVISION	DATE	BY
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60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C






LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

60631225P  
 L-18





**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY
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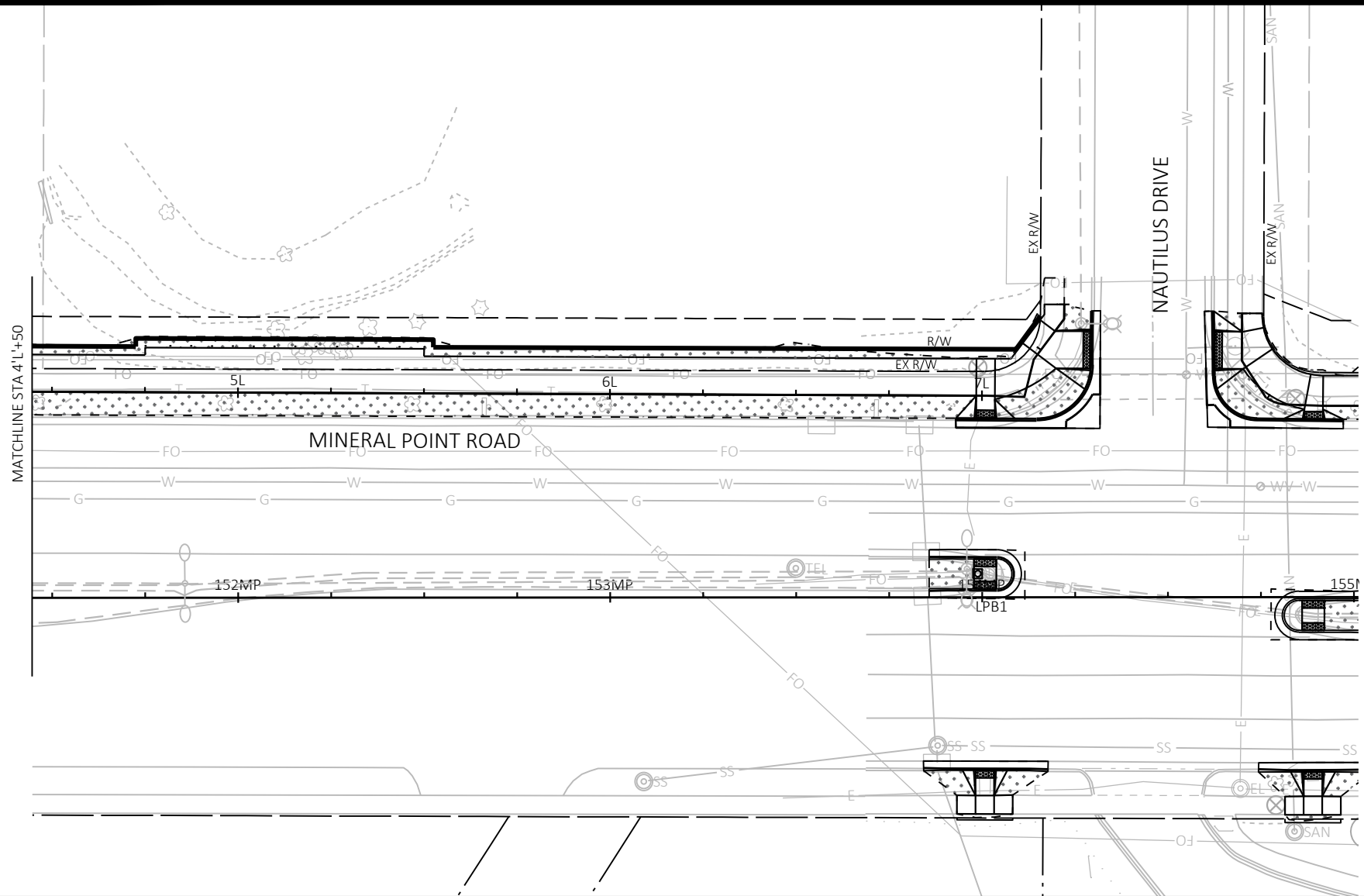
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 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



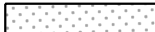



60631225P

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**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL  
← QUANTITY

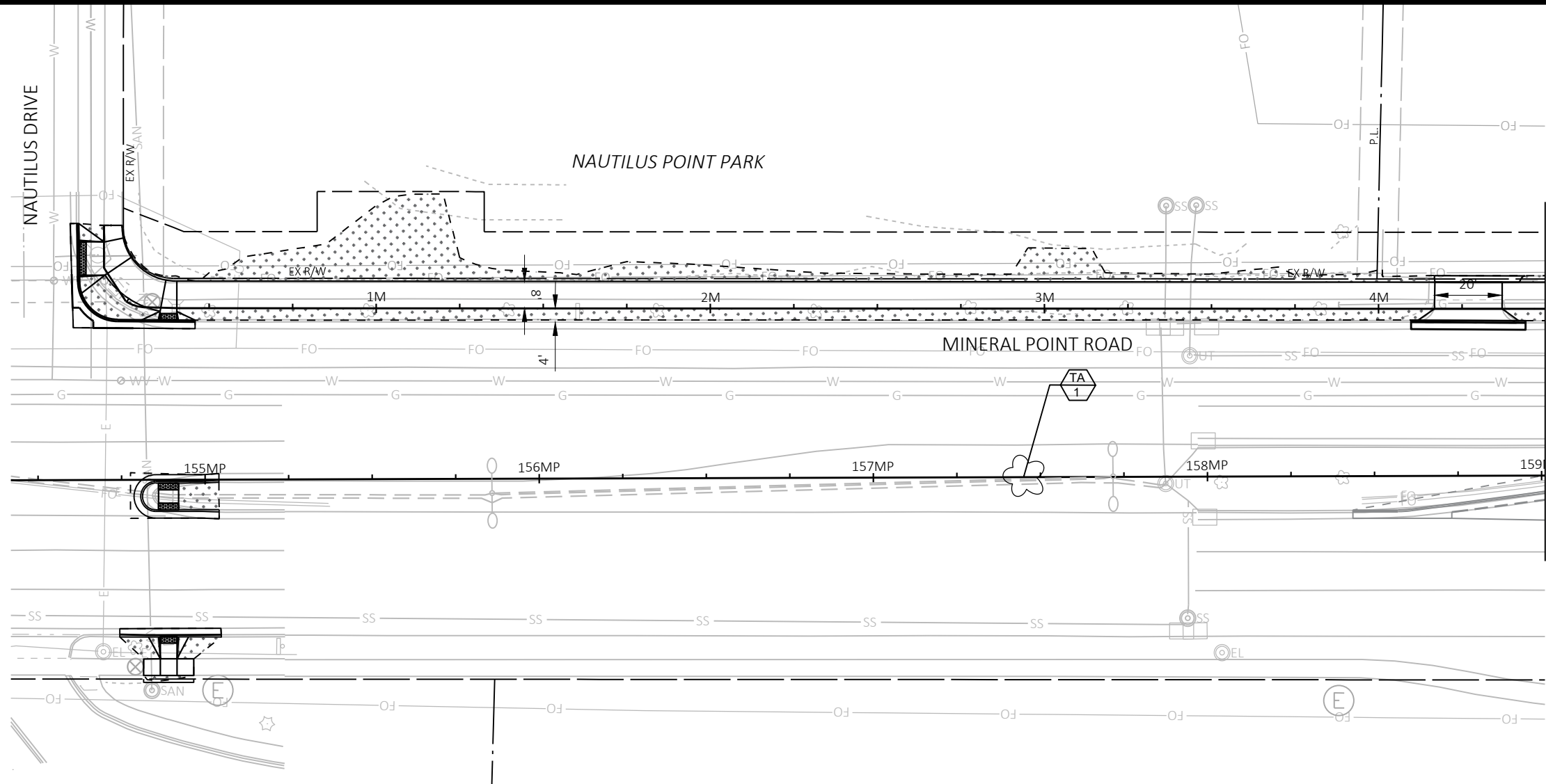
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

**60631225P**  
 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
**CITY OF MADISON**  
 CONTRACT NO: 60631225C



60631225P  
**L-20**



**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL  
← QUANTITY

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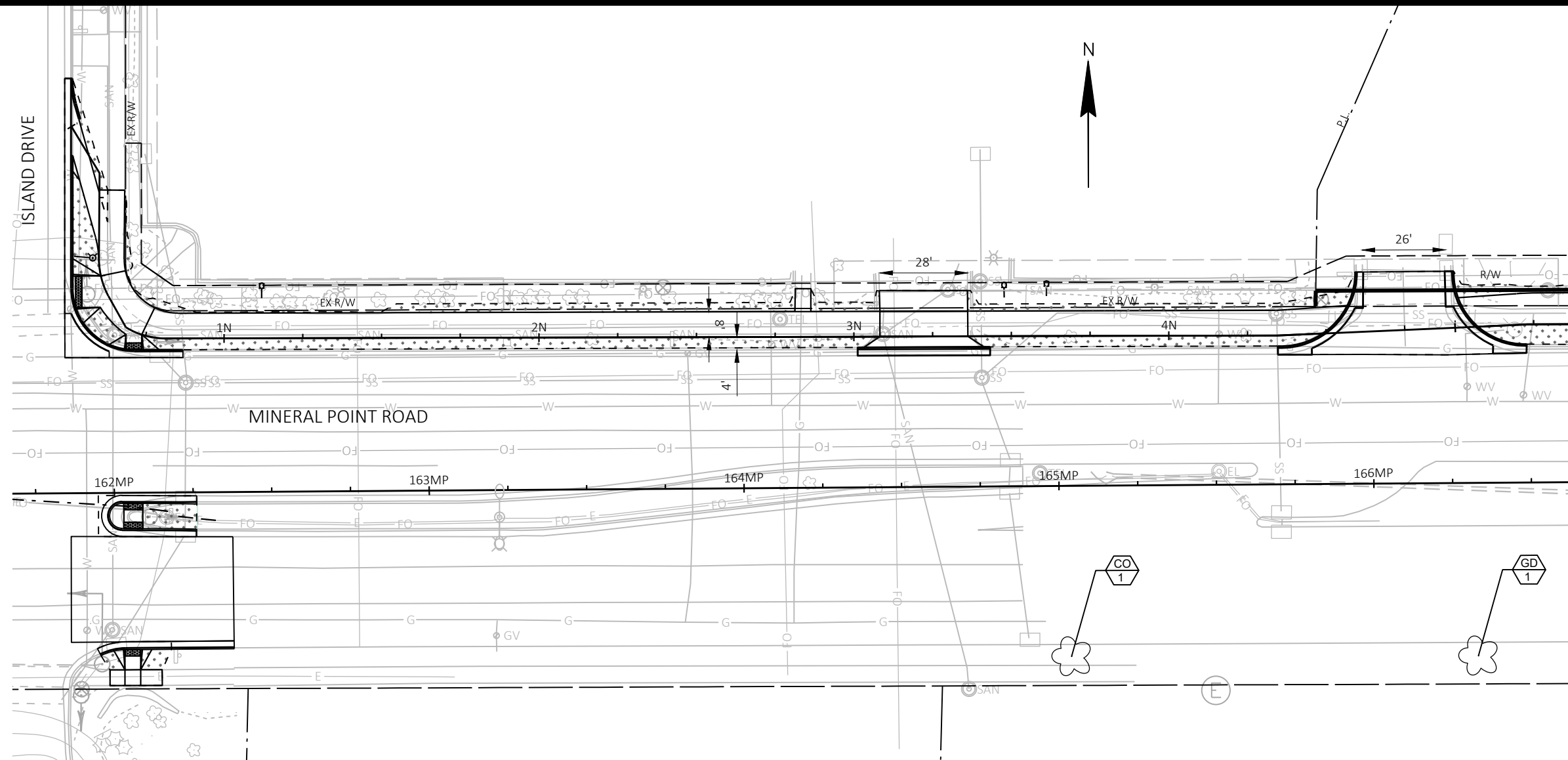
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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C








60631225P  
 L-21





**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

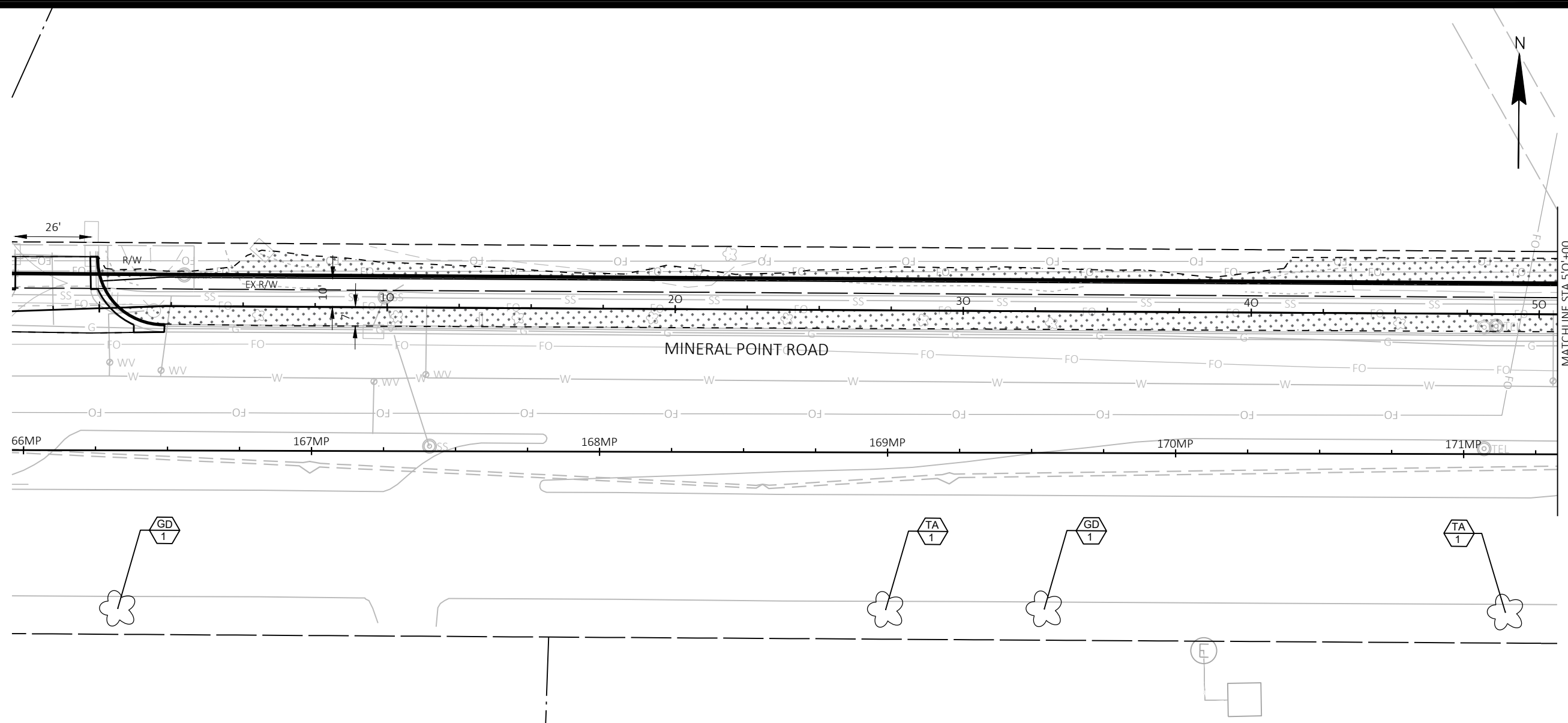
NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

60631225P  
 L-23








MARK	REVISION	DATE	BY
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 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

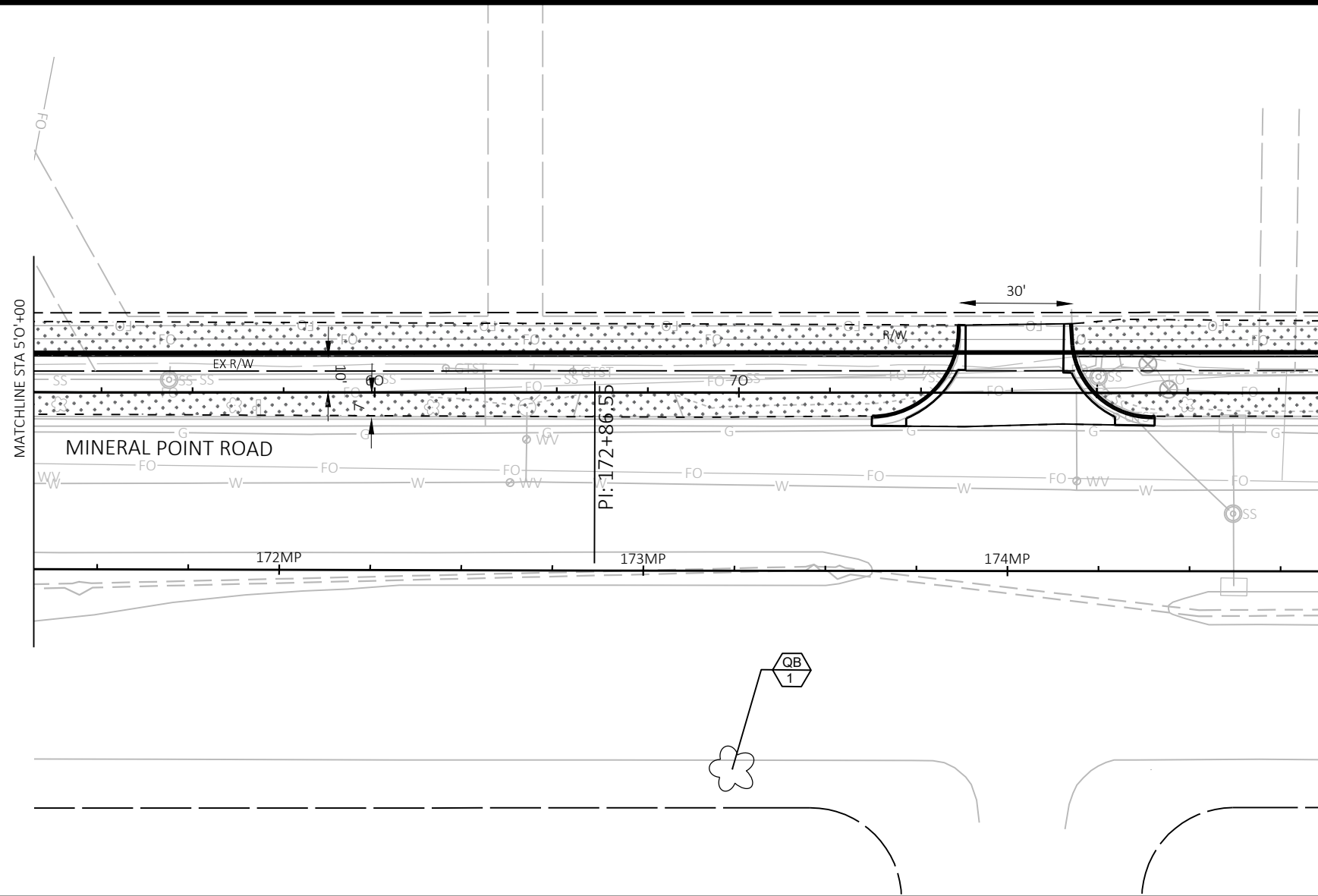


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 L-24





**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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**LANDSCAPING LEGEND**

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MARK	REVISION	DATE	BY

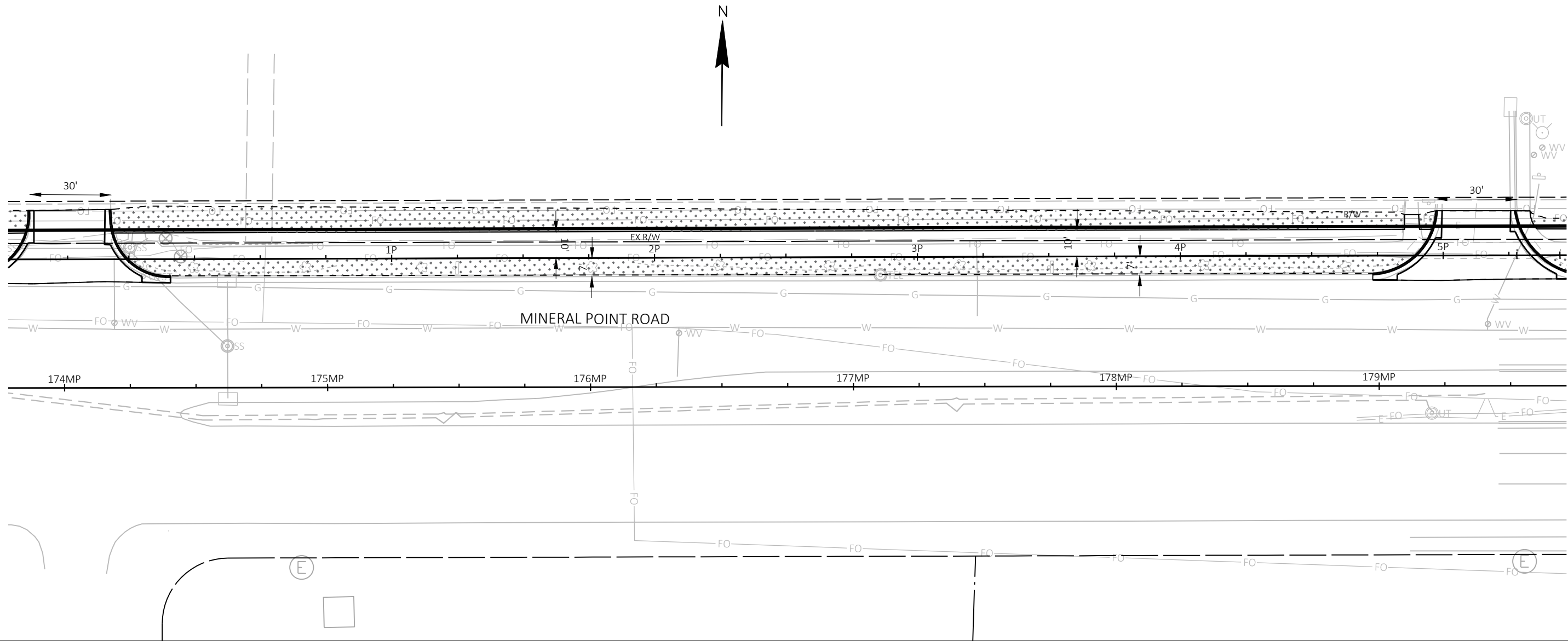
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 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON








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 L-25





**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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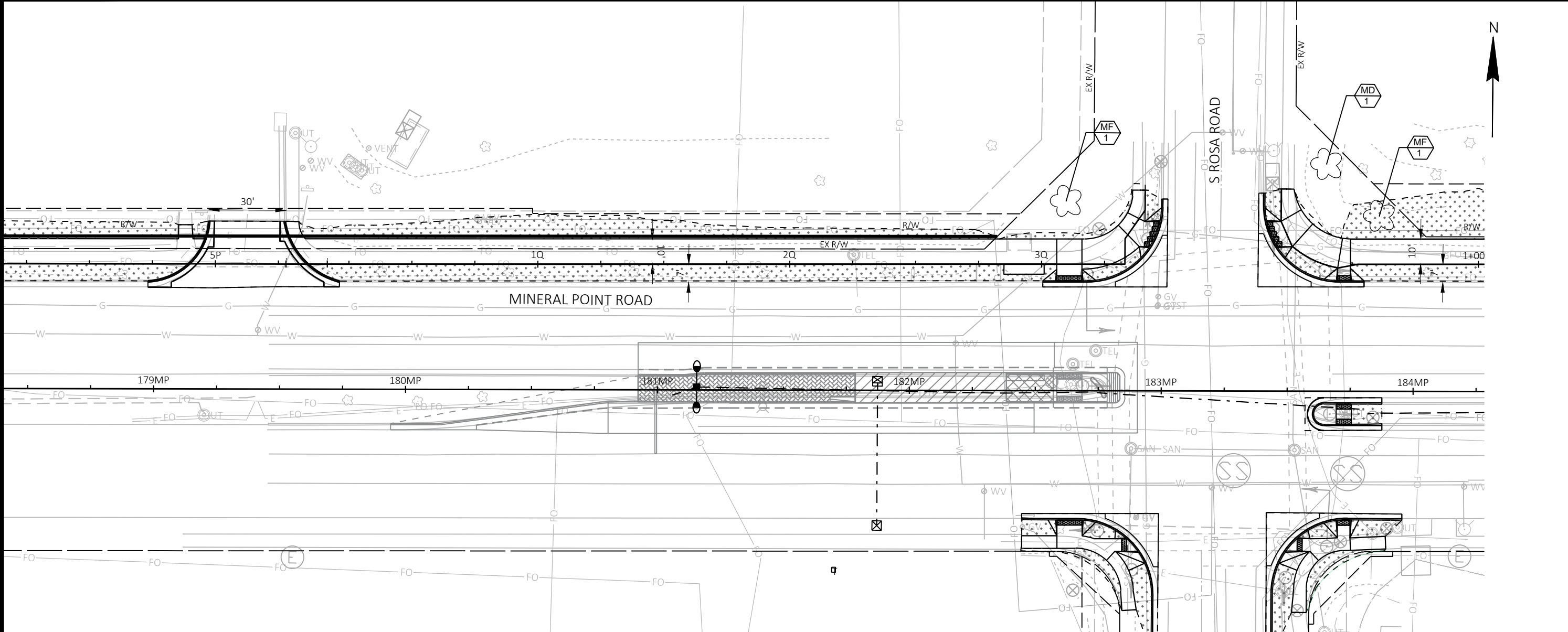
MARK	REVISION	DATE	BY
	Designed By: AECOM	2023-02-06	
	60631225P		

60631225P  
 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C



60631225P

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MARK	REVISION	DATE	BY
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

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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



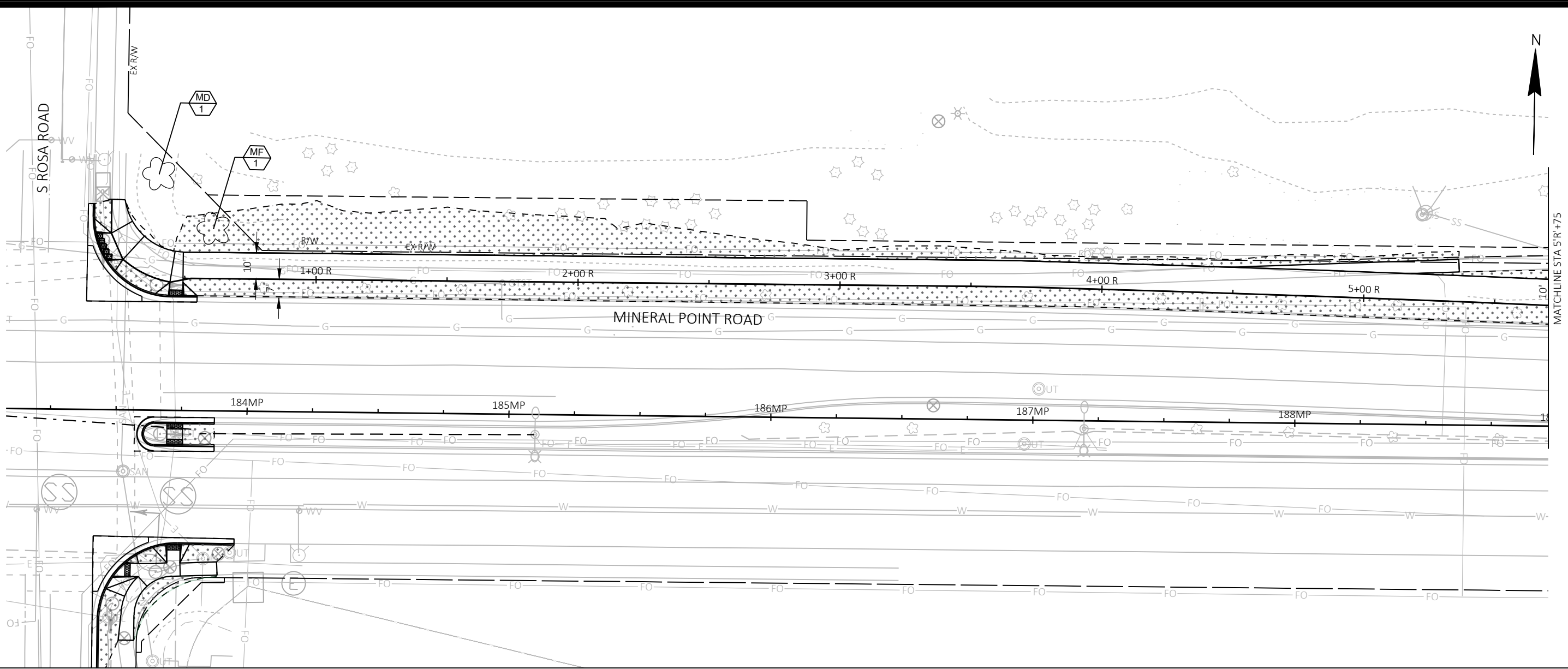
60631225P

L-27

**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL  
← QUANTITY

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


MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	Date: 2023-02-06	

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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C

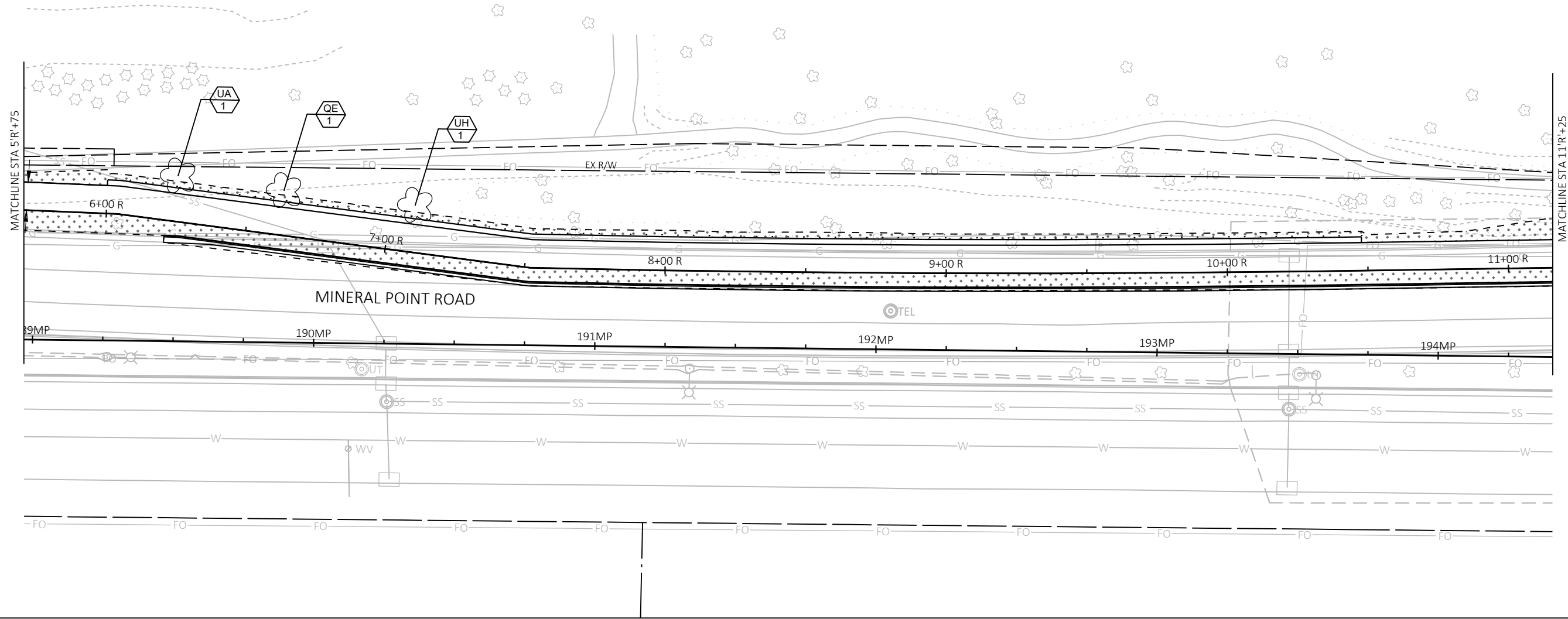
60631225P  
 L-28

**LANDSCAPING LEGEND**





-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL
-  ← QUANTITY

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GARNER PARK



**LANDSCAPING LEGEND**

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-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL  
← QUANTITY

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MARK	REVISION	DATE	BY

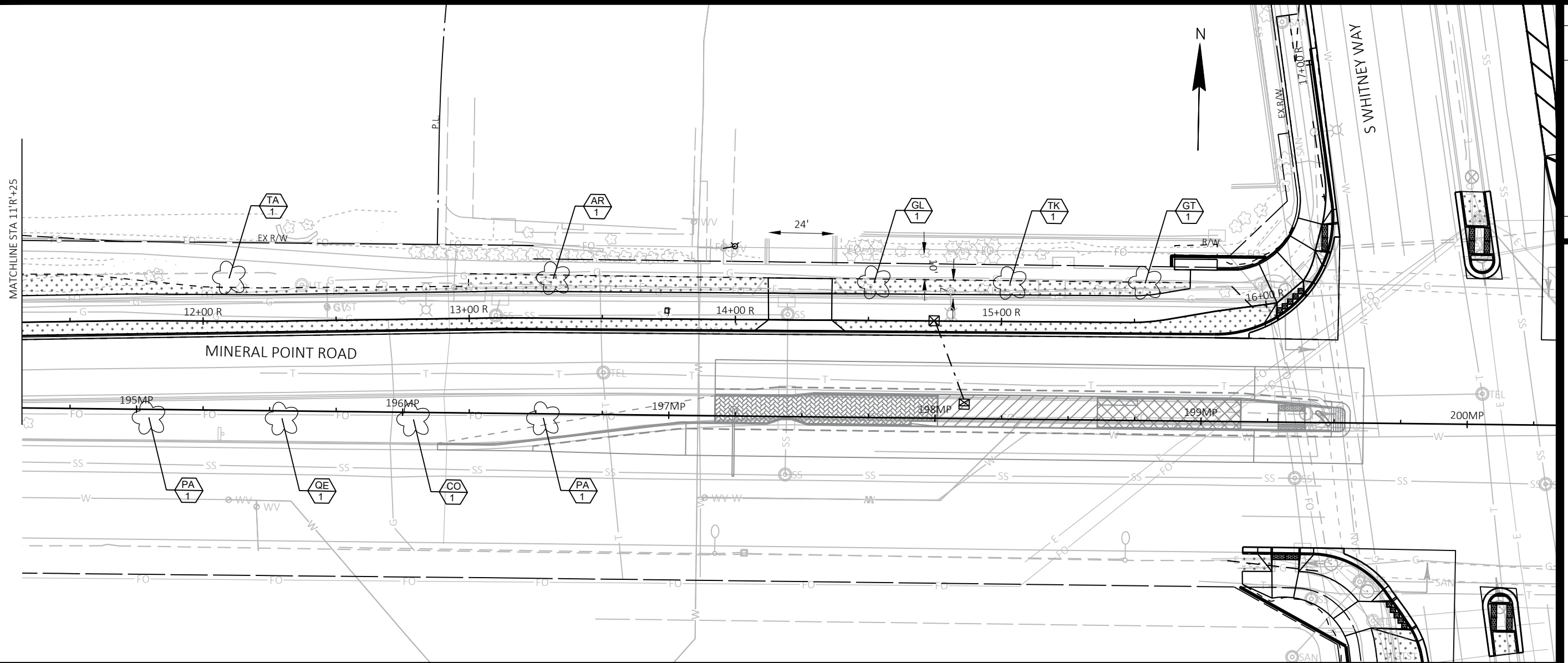
Designed By: AECOM  
Date: 2023-02-06  
60631225P

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 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C







60631225P

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**LANDSCAPING LEGEND**

-  TOPSOIL, SEEDING & EROSION MAT URBAN CLASS I TYPE A
-  TREES
-  TREE PROTECTION
-  ← PLANT SYMBOL  
← QUANTITY

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MARK	REVISION	DATE	BY
Designed By: AECOM	2023-02-09	2023-02-09	60631225P
Scale: 1 IN=40 FT			

**60631225P**  
 LANDSCAPING PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P

L-30

# TREE LISTS

Tree Replacement Ratio 1:1

Existing trees to be removed: 59

Proposed new trees: 59 (incl. 3 trees on S Junction Road)

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
<b>SHADE TREE</b>					
5	AF	<i>Acer freemanii</i> 'Jeffersred' Autumn Blaze	Autumn Blaze Freeman Maple	2 inch	B&B
2	AR	<i>Acer miyabei</i> 'Morton'	State Street Miyabe Maple	2 inch	B&B
8	CO	<i>Celtis occidentalis</i>	Hackberry	2 inch	B&B
2	GB	<i>Ginkgo biloba</i> 'Princeton Sentry'	Ginkgo 'Princeton Sentry'	2 inch	B&B
6	GD	<i>Gymnocladus dioica</i>	Espresso' Kentucky Coffee Tree	2 inch	B&B
3	GL	<i>Gleditsia triacanthos</i> 'Draves' PP 21698	Honey Locust 'Street Keeper'	2 inch	B&B
3	GT	<i>Gleditsia triacanthos</i> Skycole	Skyline Thornless Honey Locust	2 inch	B&B
5	PA	<i>Platanus x acerifolia</i> 'Morton Circle'	Exclamation London Planetree	2 inch	B&B
3	QB	<i>Quercus bicolor</i>	Swamp White Oak	2 inch	B&B
3	QE	<i>Quercus muehlenbergii</i>	Chinquapin Oak	2 inch	B&B
5	TA	<i>Tilia americana</i> 'McK Sentry'	American Sentry Linden	2 inch	B&B
4	TK	<i>Tilia americana</i> 'Kromm'	Linden 'Sweet Street'	2 inch	B&B
2	UA	<i>Ulmus americana</i> 'Princeton'	Princeton Elm	2 inch	B&B
2	UH	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	2 inch	B&B
<b>ONAMENTAL TREE</b>					
1	MD	<i>Malus</i> 'Donald Wyman'	Flowering Crabapple	2 inch	B&B
2	MF	<i>Malus</i> 'Prairie Fire'	Prairie Fire Crabapple	2 inch	B&B

MARK	REVISION	DATE	BY
60631225P	2023-02-06	#####	

60631225P  
 LANDSCAPING PLAN: TREE LIST  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P

L-31



**LEGEND**

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- - - CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED
- ⬡ CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
- ⊕ CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM UNLESS OTHERWISE NOTED
- ⊠ ELECTRICAL PULL BOX TYPE 3
- ⊞ ELECTRICAL PULL BOX TYPE 5
- ⊟ ELECTRICAL PULL BOX TYPE 7
- ⊠ ELECTRICAL PULL BOX TYPE 10
- ⬤ SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) ⬤ SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM
- ⬤ PEDESTRIAN HEAD WITH PUSH BUTTON
- ⬤ PUSH BUTTON
- ⬤ APS PUSH BUTTON
- ⊗ TRAFFIC SIGNAL HEAD
- ⊖ BUS INDICATOR
- ⊠ LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- ⊠ VIDEO DETECTION AREA
- ⊠ BICYCLE DETECTION LOOP
- ⊠ TRAFFIC SIGNAL HEAD WITH LOUVERS
- ⊠ PTZX PTZ CAMERA
- ⊠ LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
  - LED LUMINAIRE AND MOUNTING BRACKET
  - LUMINAIRE
  - ARM
  - TYPE III - GCM2-40H-MV-WW-3R-GY-950-PCR7-WL-SC 8-FT
  - TYPE VII - GCM2-40H-MV-WW-3R-GY-950-PCR7-WL-SC 8-FT STEEL
- ⊠ EVP DESIGNATOR
- ⬤ EVP DETECTOR HEAD
- ⊠ RED ARROW
- ⊠ YELLOW ARROW
- ⊠ GREEN ARROW
- ⬤ LANE DESIGNATION FOR INFO ONLY
- ⊠ XX DON'T WALK INDICATOR 16"
- ⊠ WALK INDICATOR 16"

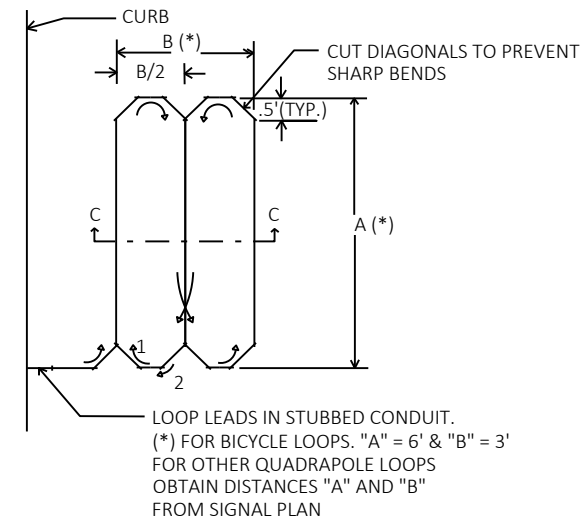
**NOTES:**

- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

**BUS INDICATOR**

- ⊖ VERTICAL WHITE INDICATOR IS GO FOR BUS
- ⊠ TRIANGLE WHITE INDICATOR IS CAUTION FOR BUS
- ⊖ HORIZONTAL WHITE INDICATOR IS STOP FOR BUS
- ⊠ ANGLD WHITE INDICATOR IS TURN FOR BUS

**SAWED IN BICYCLE LOOP DETECTION DETAIL:**



**CONSTRUCTION NOTES:**

1. THE CITY OF MADISON WILL PROVIDE TEMPORARY AND FINAL SIGNAL TIMING FOR ALL SIGNALS.
2. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL ADJUSTMENTS WITH THE ENGINEER.
3. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE AND LOOP DETECTOR WIRE TO BE REMOVED BY CONTRACTOR.
4. REMOVE ALL TRAFFIC SIGNAL CABLE, ELECTRICAL WIRE LIGHTING AND GROUND WIRES, ABANDON CONDUIT IN PLACE.

MARK	REVISION	DATE	BY
60631225P	2023-02-09		
Designed By: AECOM			Scale: N/A

**60631225P**  
**TRAFFIC SIGNAL LEGEND**  
**MINERAL POINT ROAD WIDENED SIDEWALK**  
**CITY OF MADISON**  
**CITY OF MADISON, DANE COUNTY, WI**  
**CONTRACT NO: 60631225C**

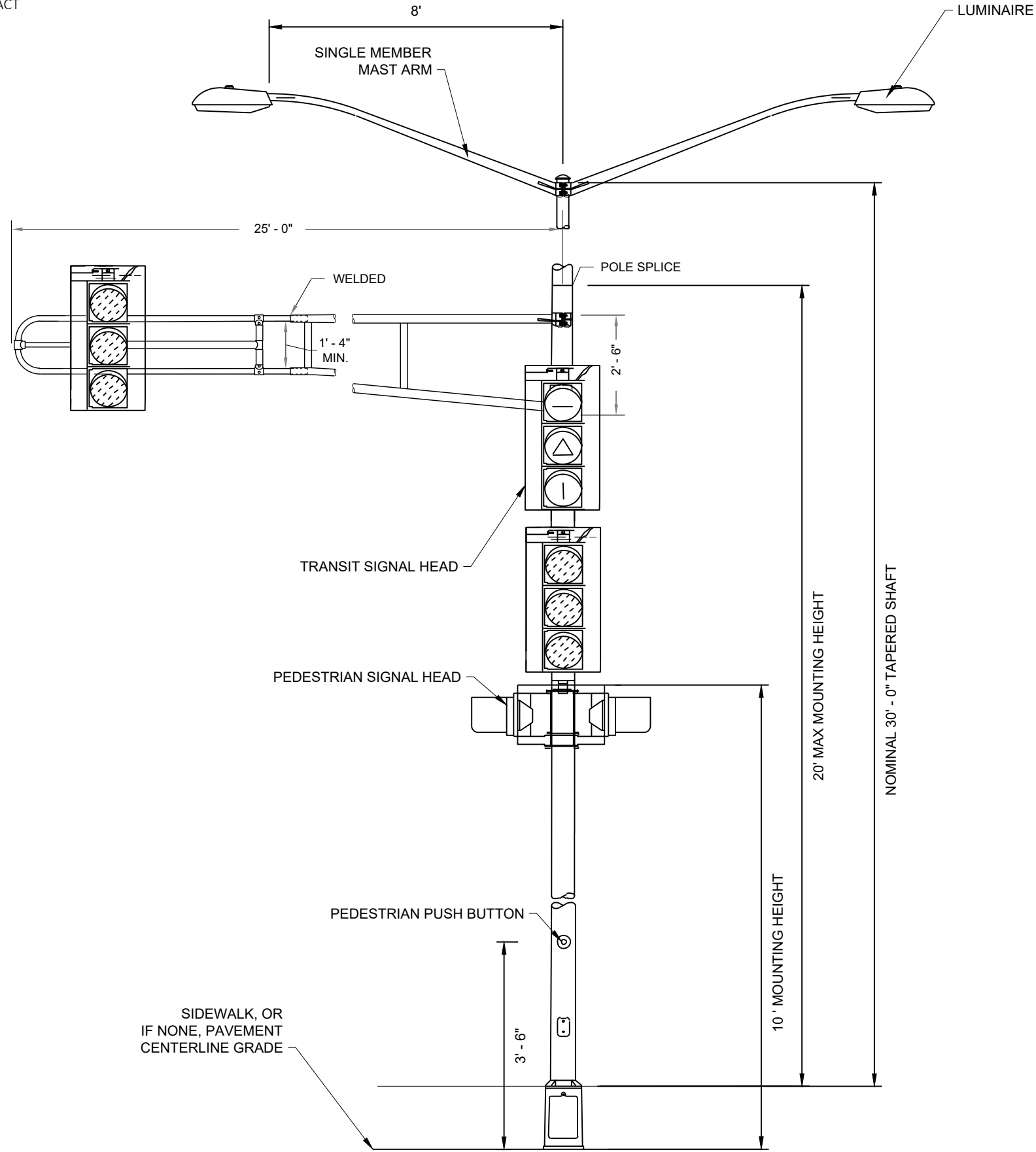


60631225P

SD-1

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT



**POLE MOUNTING CONFIGURATION  
-  
SIGNAL POLE LAYOUT WHITNEY WAY  
(SB2)**

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	Date: 2023-02-07	Scale: N/A

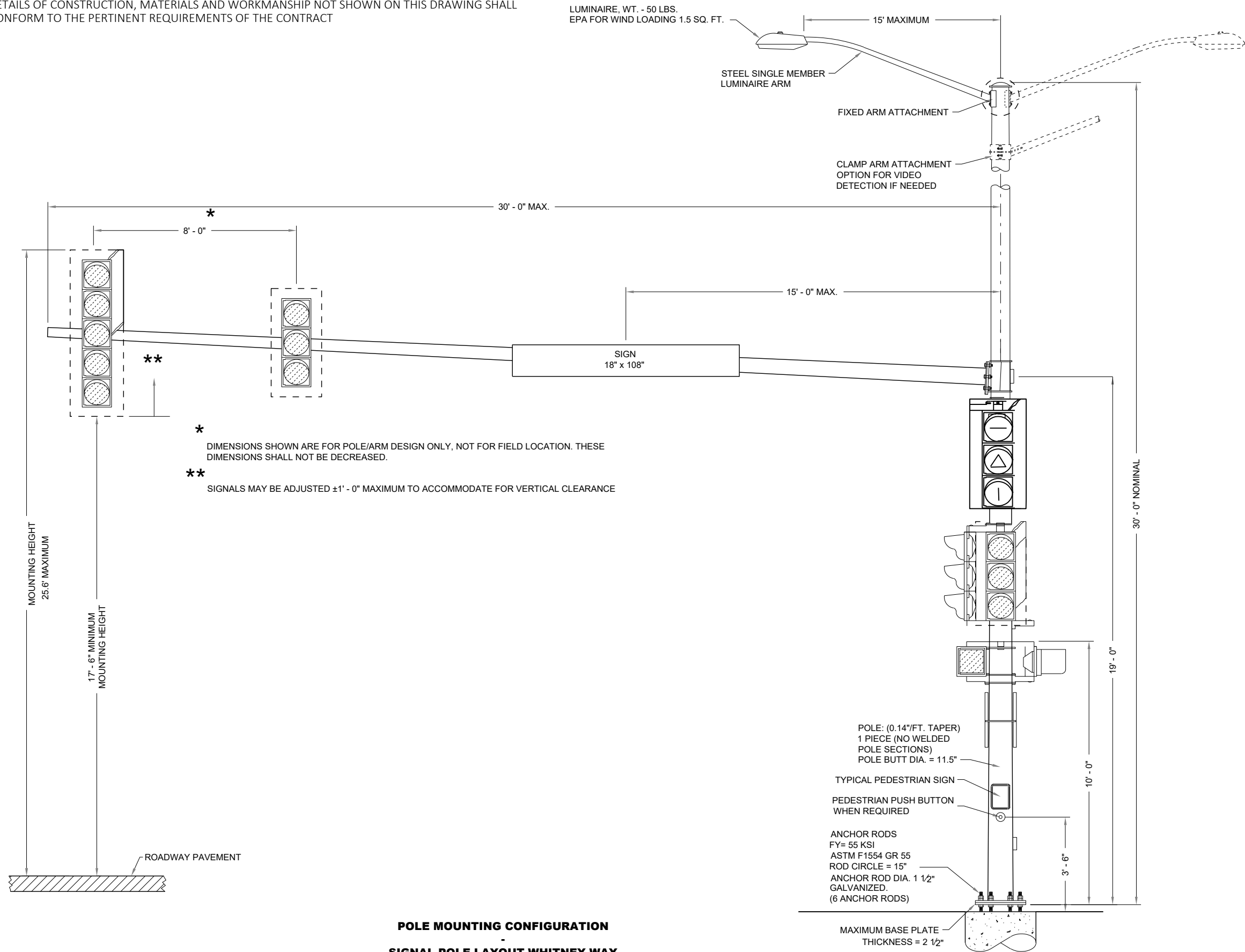
60631225P  
 CITY OF MADISON  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P  
 SD-2

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT



MARK	REVISION	DATE	BY
60631225P	2023-02-07		

60631225P  
CITY OF MADISON  
MINERAL POINT ROAD WIDENED SIDEWALK  
TRAFFIC SIGNAL DETAIL  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

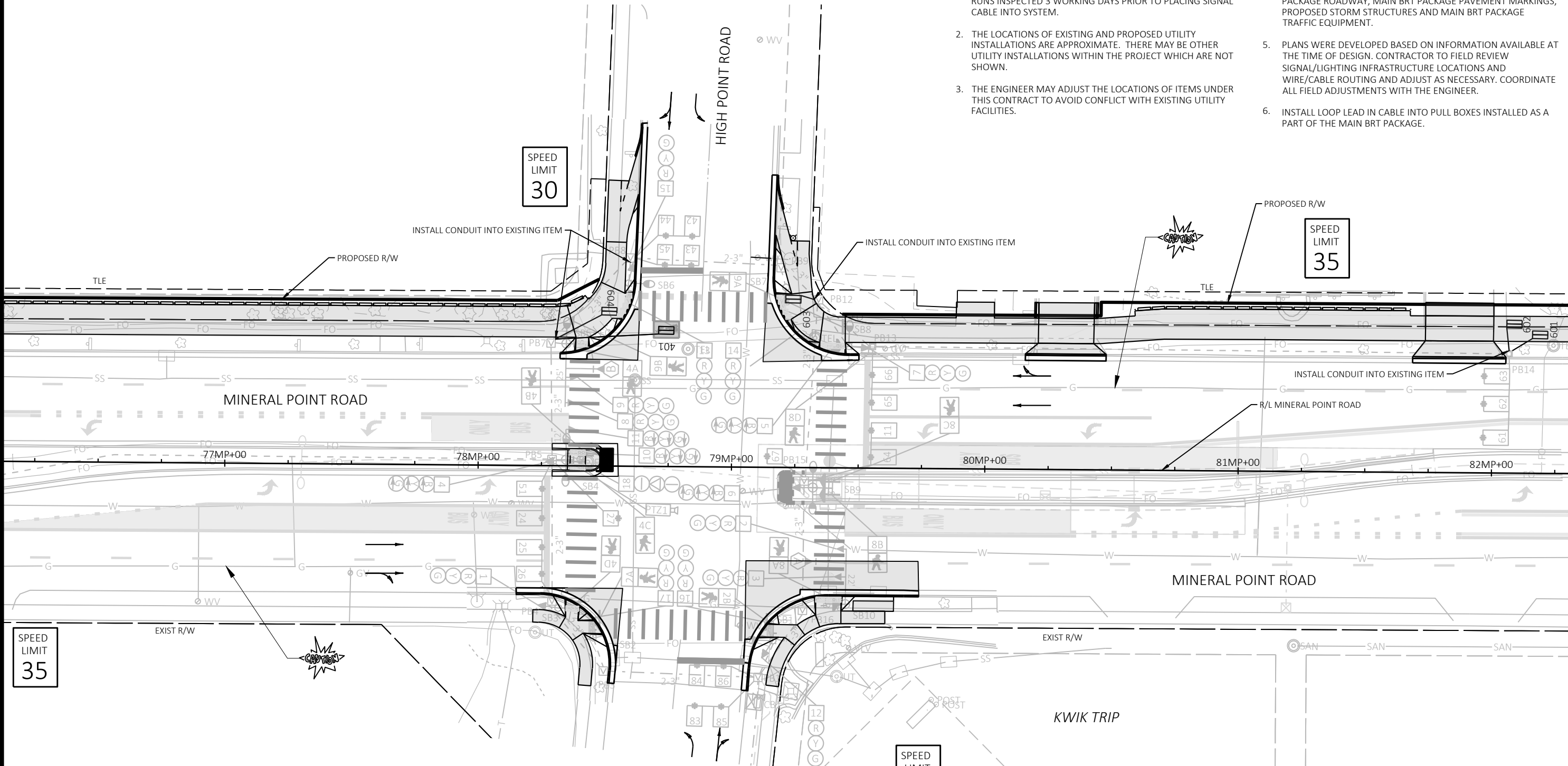


60631225P

SD-3

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD IN CABLE INTO PULL BOXES INSTALLED AS A PART OF THE MAIN BRT PACKAGE.



SIGNAL PLAN LEGEND	
	CONTROL CABINET
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM
	MONOTUBE BASE, POLE, X' ARM
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED
	BIKE DETECTION LOOP
	TRAFFIC SIGNAL HEAD
	BUS INDICATOR
	DON'T WALK INDICATOR 16"
	WALK INDICATOR 16"
	EVP DETECTOR HEAD, AND EVP DESIGNATOR
	ELECTRICAL PULL BOX TYPE 3
	ELECTRICAL PULL BOX TYPE 5
	ELECTRICAL PULL BOX TYPE 7
	PEDESTRIAN HEAD
	APS PUSH BUTTON/PUSH BUTTON
	LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	
60631225P			

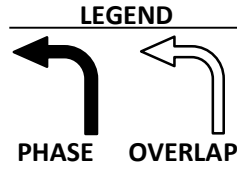
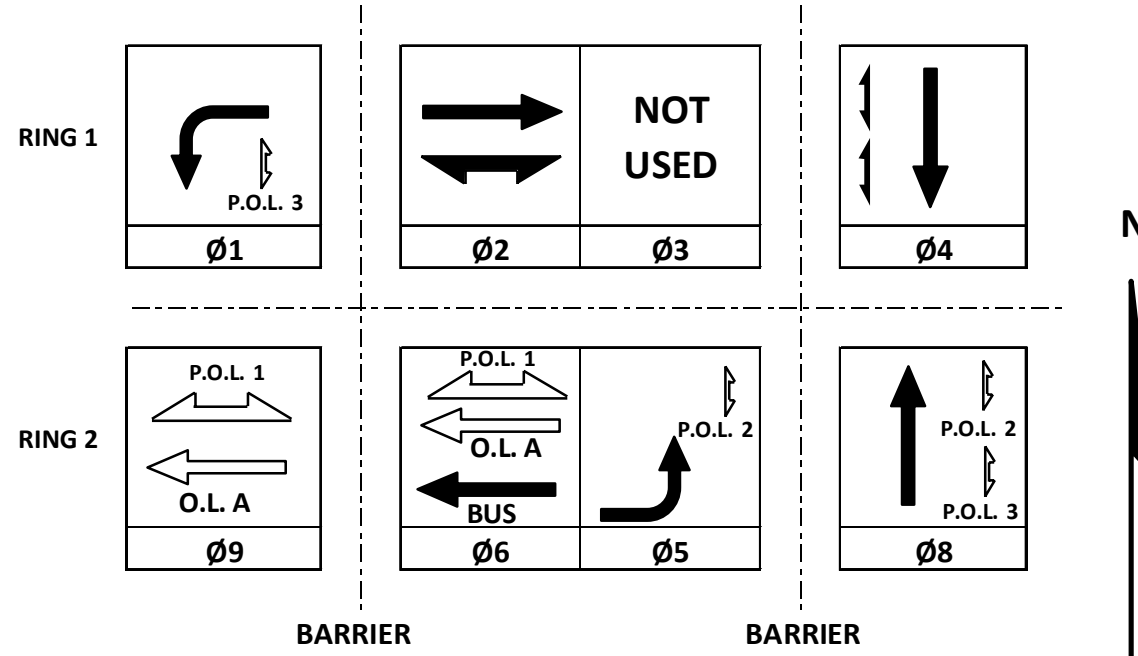
60631225P  
 SIGNAL PLAN: MINERAL POINT ROAD AT HIGH POINT ROAD  
 CITY OF MADISON, DANE COUNTY, WI  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C



60631225P

S-1A

HEAD NUMBERS	FLASH	
Ø1	10,11	R
Ø2	1,2,3	R
Ø3		
Ø4	15,16,17	R
Ø5	4,5,6	R
Ø6	18	R
Ø7		
Ø8	12,13,14	R
Ø2P	2A,2B	
Ø4P	4A,4B,4C,4D	
Ø6P		
Ø8P		
OLA	7,8,9	6,9
POL1	9A,9B	9,6
POL2	8C,8D	5,8
POL3	8A,8B	8,1



### CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		9		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X
9		1		X

### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1		

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+5.

### TYPE OF INTERCONNECT/COMMUNICATION

NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

### TYPE OF COORDINATION

NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

### TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	X

### TYPE OF PRE-EMPT

NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

### DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	11	22	24	26	41	43	45	51
PHASE CALLED	1	2	2	2	4	4	4	5
PHASE EXTENDED	1	2	2	2	4	4	4	5
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH		X			X			
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	21	23	25	27	42	44	401	61
PHASE CALLED	2	2	2		4	4	4	6
PHASE EXTENDED	2	2	2		4	4	4	6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X	X						X
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	62	64	66	601	603	81	83	85
PHASE CALLED	6	6	6		6	8	8	8
PHASE EXTENDED	6	6	6		6	8	8	8
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X					X		
LOOP FUNCTION				SYS				

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	63	65	67	602	604	82	84	86
PHASE CALLED	6	6			6	8	8	8
PHASE EXTENDED	6	6			6	8	8	8
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X					X		
LOOP FUNCTION				SYS				

### GENERAL NOTES:

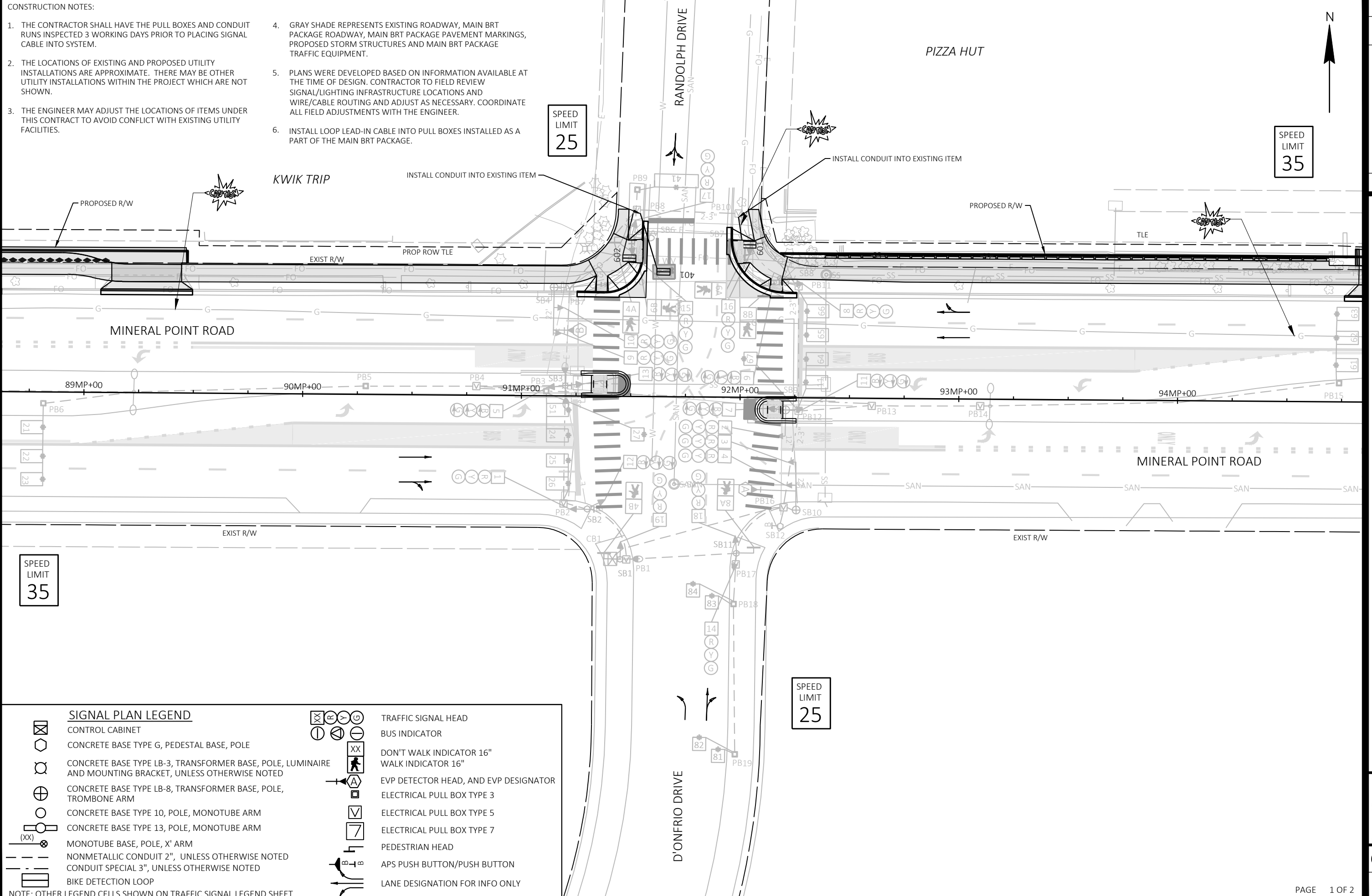
- DETECTOR INPUT
- DETECTOR #(S)
- PHASE CALLED
- PHASE EXTENDED
- DISCONNECT TIME
- CALLING DELAY
- EXTENSION STRETCH
- LOOP FUNCTION

MINERAL POINT ROAD AT HIGH POINT ROAD	
CITY OF MADISON	
DANE COUNTY	
SIGNAL NO:	CABINET TYPE: TS2
CONTROLLER TYPE: COBALT	
DATE:	FEBRUARY 2023 PAGE NUMBER: 2 OF 2

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 SEQUENCE OF OPERATION-MINERAL POINT ROAD AT HIGH POINT ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON WISCONSIN  
 60631225P  
 DESIGNED BY: AECOM DATE: 2/7/2023  
 SCALE: NTS  
 REVISION  
 Mark  
 DATE BY

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD-IN CABLE INTO PULL BOXES INSTALLED AS A PART OF THE MAIN BRT PACKAGE.



SPEED LIMIT 35

SPEED LIMIT 25

SPEED LIMIT 35

SPEED LIMIT 25

**SIGNAL PLAN LEGEND**

	CONTROL CABINET
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM
	MONOTUBE BASE, POLE, X' ARM
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED
	BIKE DETECTION LOOP

	TRAFFIC SIGNAL HEAD
	BUS INDICATOR
	DON'T WALK INDICATOR 16"
	WALK INDICATOR 16"
	EVP DETECTOR HEAD, AND EVP DESIGNATOR
	ELECTRICAL PULL BOX TYPE 3
	ELECTRICAL PULL BOX TYPE 5
	ELECTRICAL PULL BOX TYPE 7
	PEDESTRIAN HEAD
	APS PUSH BUTTON/PUSH BUTTON
	LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	Date: 2023-02-07	
Scale: 1 IN=40 FT			

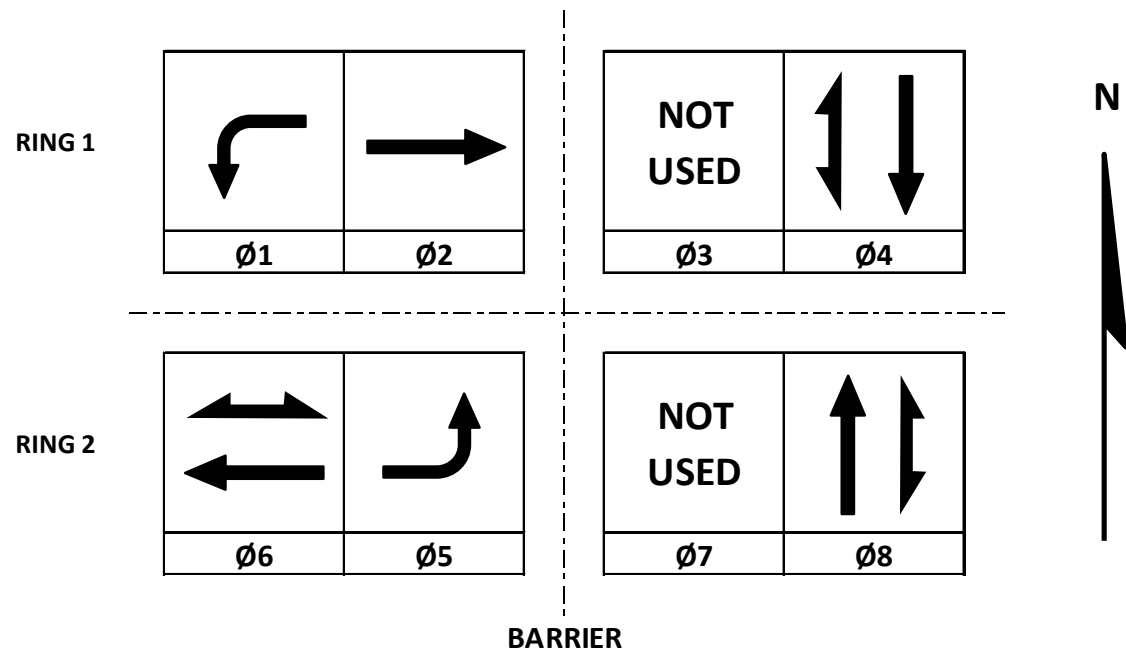
SIGNAL PLAN: MINERAL POINT ROAD AT D'ONFRIO DRIVE/RANDOLPH DRIVE  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C



60631225P  
 S-2A



	HEAD NUMBERS	FLASH
Ø1	11,12,13	R
Ø2	1,2,3,4	R
Ø3		
Ø4	17,18,19	R
Ø5	5,6,7	R
Ø6	8,9,10	R
Ø7		
Ø8	14,15,16	R
Ø1P		
Ø4P	4A,4B	
Ø6P	6A,6B	
Ø8P	8A,8B	
OLE		
OLF		
OLG		
OLH		



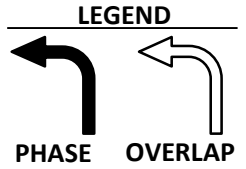
**CONTROLLER LOGIC**

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1		

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+5.



**DETECTOR LOGIC**

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	11	21	23	25	27	41	51	61
PHASE CALLED	1	2	2	2		4	5	6
PHASE EXTENDED	1	2	2	2		4	5	6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)		22	24	26		401		62
PHASE CALLED		2	2	2		4		6
PHASE EXTENDED		2	2	2		4		6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	63	65	67	602	81	83		
PHASE CALLED	6	6		6	8	8		
PHASE EXTENDED	6	6		6	8	8		
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	64	66	601		82	84		
PHASE CALLED	6	6	6		8	8		
PHASE EXTENDED	6	6	6		8	8		
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

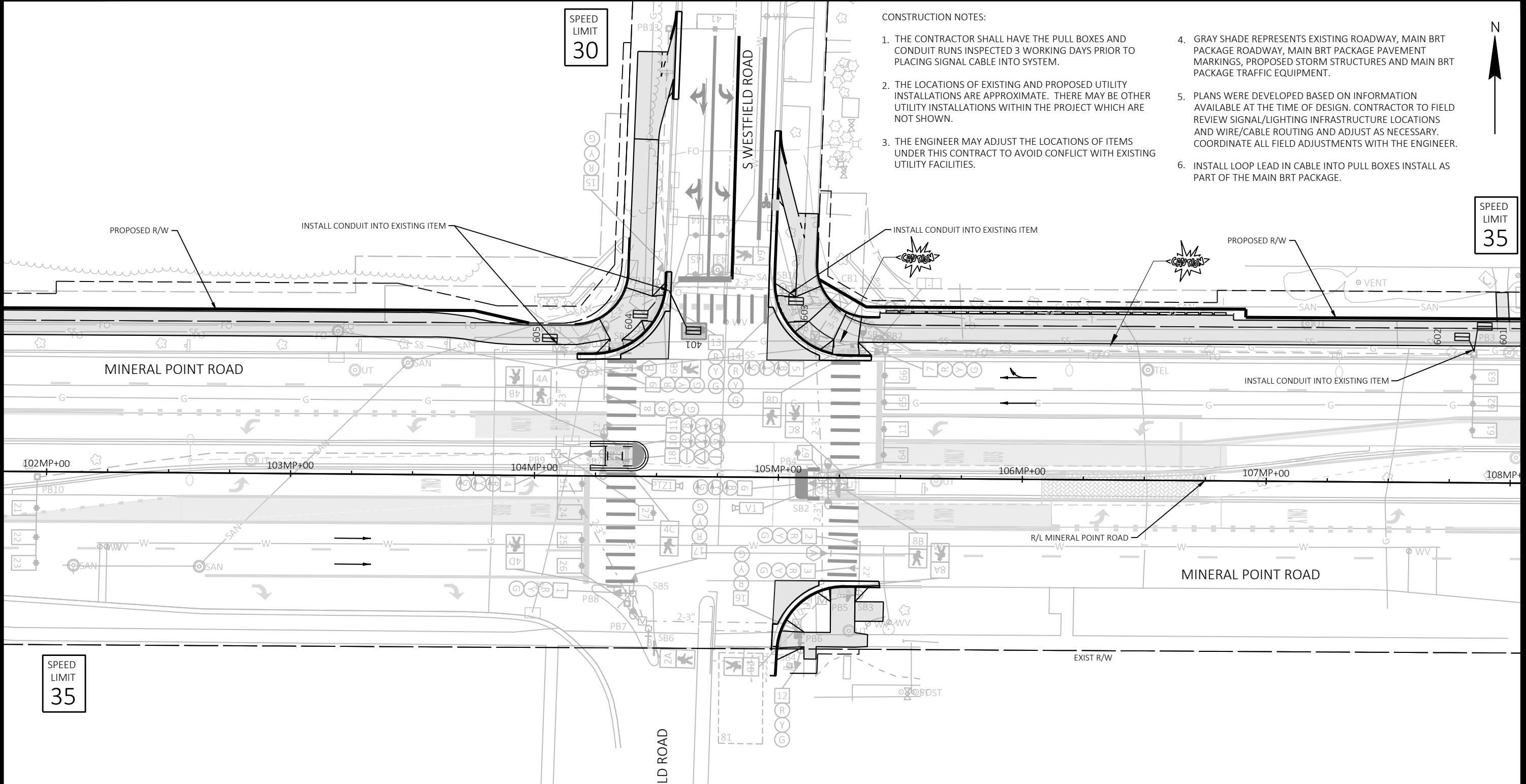
TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

**GENERAL NOTES:**

- 1.
- 2.
- 3.
- 4.

MINERAL POINT ROAD AT D'ONFRIO DRIVE	
CITY OF MADISON	
DANE COUNTY	
SIGNAL NO:	CABINET TYPE: TS2
CONTROLLER TYPE: COBALT	
DATE: FEBRUARY 2023	PAGE NUMBER: 2 OF 2

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 SEQUENCE OF OPERATION: MINERAL POINT RD AT D'ONFRIO DR/RANDOLPH DR  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON WISCONSIN  
 60631225P  
 Scale: NTS  
 DATE: 2/7/2023  
 REVISION: Mark  
 Designed By: AECOM Date: 2/7/2023  
 60631225P  
 60631225P  
 S-2B



SPEED LIMIT 30

SPEED LIMIT 35

SPEED LIMIT 35

SPEED LIMIT 25

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD IN CABLE INTO PULL BOXES INSTALL AS PART OF THE MAIN BRT PACKAGE.

SIGNAL PLAN LEGEND	
	CONTROL CABINET
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM
	MONOTUBE BASE, POLE, X' ARM
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED
	BIKE DETECTION LOOP
	TRAFFIC SIGNAL HEAD
	BUS INDICATOR
	DON'T WALK INDICATOR 16"
	WALK INDICATOR 16"
	EVP DETECTOR HEAD, AND EVP DESIGNATOR
	ELECTRICAL PULL BOX TYPE 3
	ELECTRICAL PULL BOX TYPE 5
	ELECTRICAL PULL BOX TYPE 7
	PEDESTRIAN HEAD
	APS PUSH BUTTON/PUSH BUTTON
	LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY

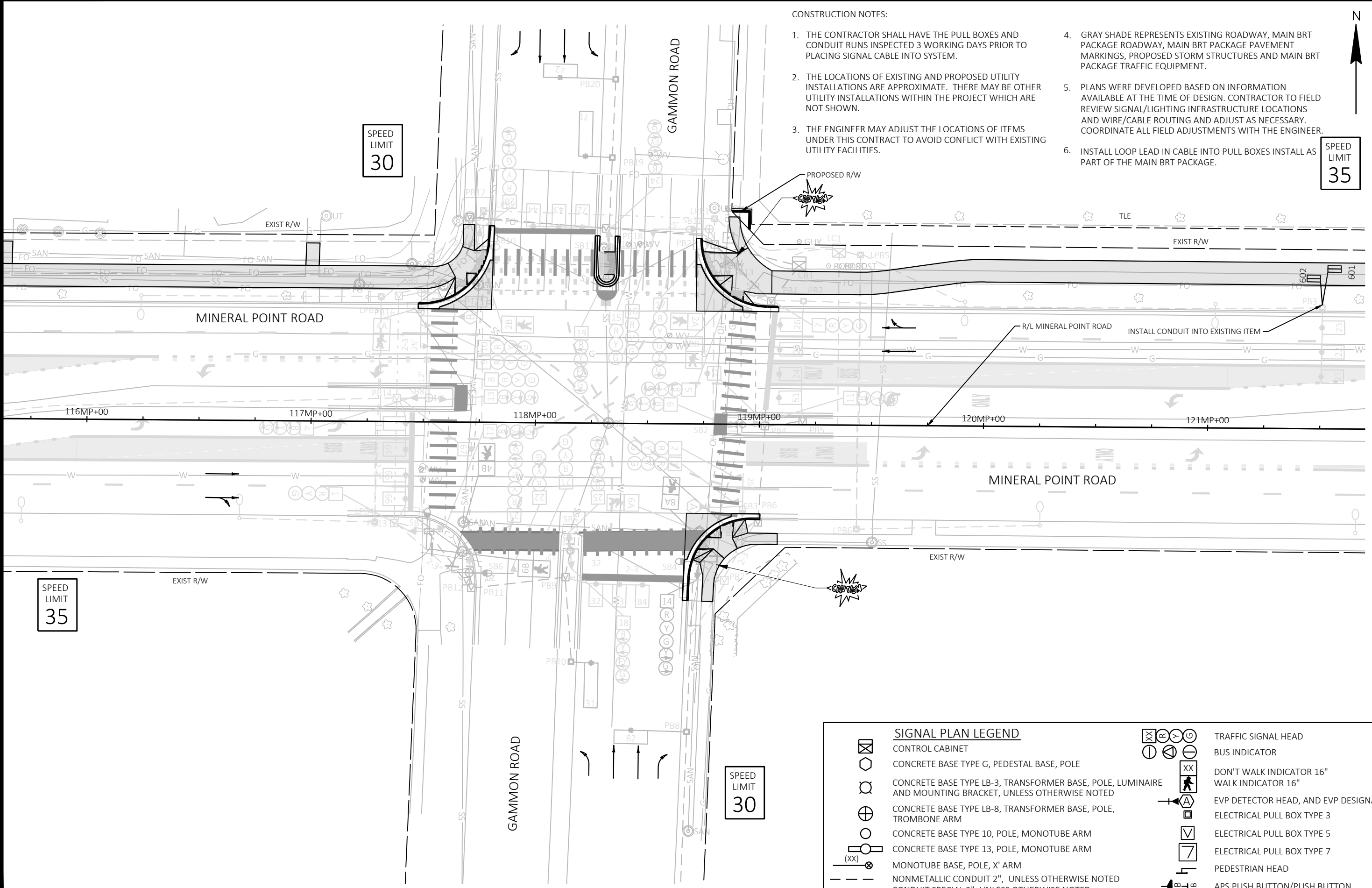
60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P

S-3A





CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD IN CABLE INTO PULL BOXES INSTALL AS PART OF THE MAIN BRT PACKAGE.

SPEED LIMIT  
35

SIGNAL PLAN LEGEND	
	CONTROL CABINET
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM
	MONOTUBE BASE, POLE, X' ARM
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED
	BIKE DETECTION LOOP
	TRAFFIC SIGNAL HEAD
	BUS INDICATOR
	DON'T WALK INDICATOR 16"
	WALK INDICATOR 16"
	EVP DETECTOR HEAD, AND EVP DESIGNATOR
	ELECTRICAL PULL BOX TYPE 3
	ELECTRICAL PULL BOX TYPE 5
	ELECTRICAL PULL BOX TYPE 7
	PEDESTRIAN HEAD
	APS PUSH BUTTON/PUSH BUTTON
	LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY

Designed By: AECOM  
60631225P  
Scale: 1 IN=40 FT

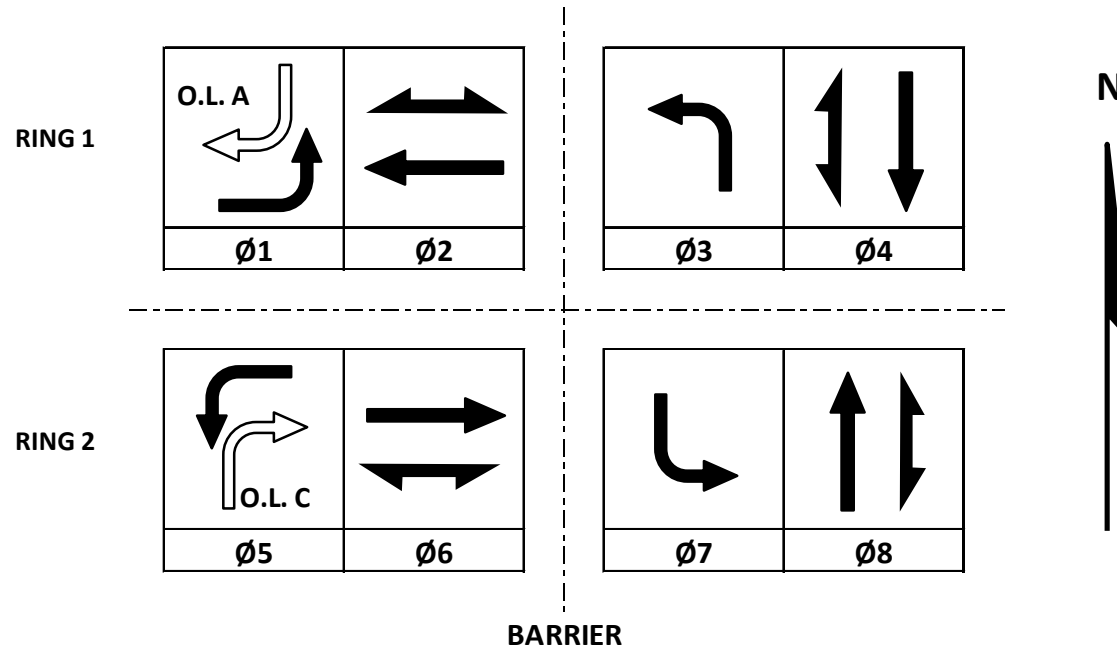
60631225P  
SIGNAL PLAN: MINERAL POINT ROAD AT GAMMON ROAD  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C



60631225P

S-4A

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R
Ø2	7,8,9,10	R
Ø3	18,19	-
Ø4	20,21,22,23	R
Ø5	11,12,13	R
Ø6	1,2,3	R
Ø7	24,25	-
Ø8	14,15,16,17	R
Ø2P	2A,2B	
Ø4P	4A,4B	
Ø6P	6A,6B	
Ø8P	8A,8B	
OLA	20,23	
OLC	14,17	
OLG		
OLH		



**CONTROLLER LOGIC**

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	6+1	2+5		

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 6+1.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	X
TOMAR	
HARDWARE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

**GENERAL NOTES:**

- 1.
- 2.
- 3.
- 4.

**DETECTOR LOGIC**

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	11	22	24	26	31	41	43	51
PHASE CALLED	1	2	2	2	3	4	4	5
PHASE EXTENDED	1	2	2	2	3	4	4	5
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH		X			X	X		
LOOP FUNCTION								

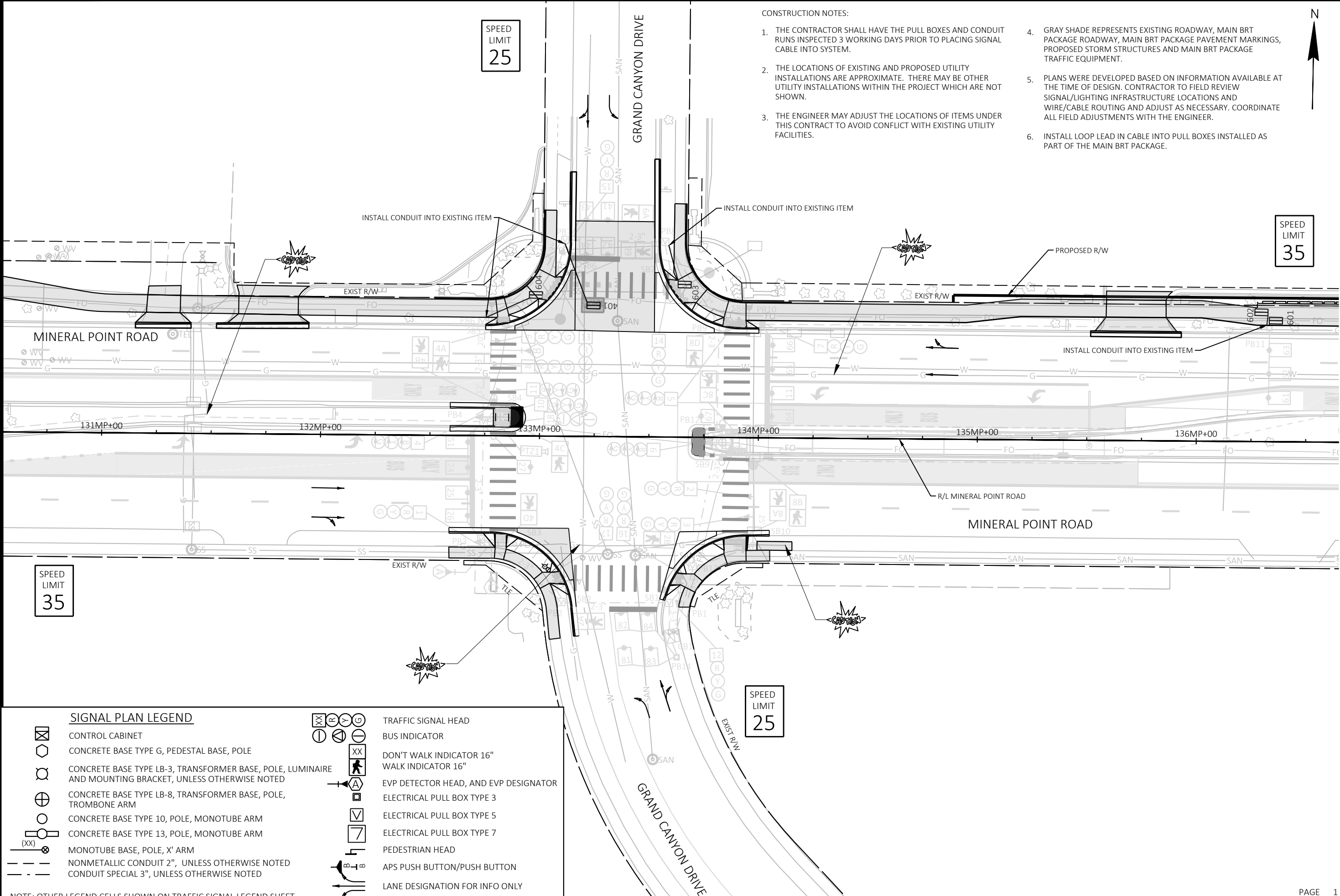
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	21	23	25	27	32	42	44	61
PHASE CALLED	2	2	2		3	4	4	6
PHASE EXTENDED	2	2	2		3	4	4	6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X	X						X
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	62	64	66	601	71	81	83	
PHASE CALLED	6	6	6		7	8	8	
PHASE EXTENDED	6	6	6		7	8	8	
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X				X			
LOOP FUNCTION				SYS				

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	63	65	67	602	72	82	84	
PHASE CALLED	6	6			7	8	8	
PHASE EXTENDED	6	6			7	8	8	
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH	X							
LOOP FUNCTION				SYS				

MINERAL POINT ROAD AT GAMMON ROAD	
CITY OF MADISON	
DANE COUNTY	
SIGNAL NO:	CABINET TYPE: TS2
CONTROLLER TYPE: COBALT	
DATE: FEBRUARY 2023	PAGE NUMBER: 2 OF 2

60631225P  
 60631225C  
 CONTRACT NO: 60631225C  
 CITY OF MADISON, DANE COUNTY, WI  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 SEQUENCE OF OPERATION: MINERAL POINT ROAD AT GAMMON ROAD  
 60631225P  
 S-4B



SPEED LIMIT  
25

SPEED LIMIT  
35

SPEED LIMIT  
35

SPEED LIMIT  
25

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD IN CABLE INTO PULL BOXES INSTALLED AS PART OF THE MAIN BRT PACKAGE.



SIGNAL PLAN LEGEND

	CONTROL CABINET		TRAFFIC SIGNAL HEAD
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE		BUS INDICATOR
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED		DON'T WALK INDICATOR 16" WALK INDICATOR 16"
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM		EVP DETECTOR HEAD, AND EVP DESIGNATOR
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 3
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 5
	MONOTUBE BASE, POLE, X' ARM		ELECTRICAL PULL BOX TYPE 7
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED		PEDESTRIAN HEAD
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED		APS PUSH BUTTON/PUSH BUTTON
			LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	Scale: 1 IN=40 FT

SIGNAL PLAN: MINERAL POINT ROAD AT GRAND CANYON DRIVE  
 60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 BUS RAPID TRANSIT  
 CITY OF MADISON  
 CONTRACT NO: 60631225C

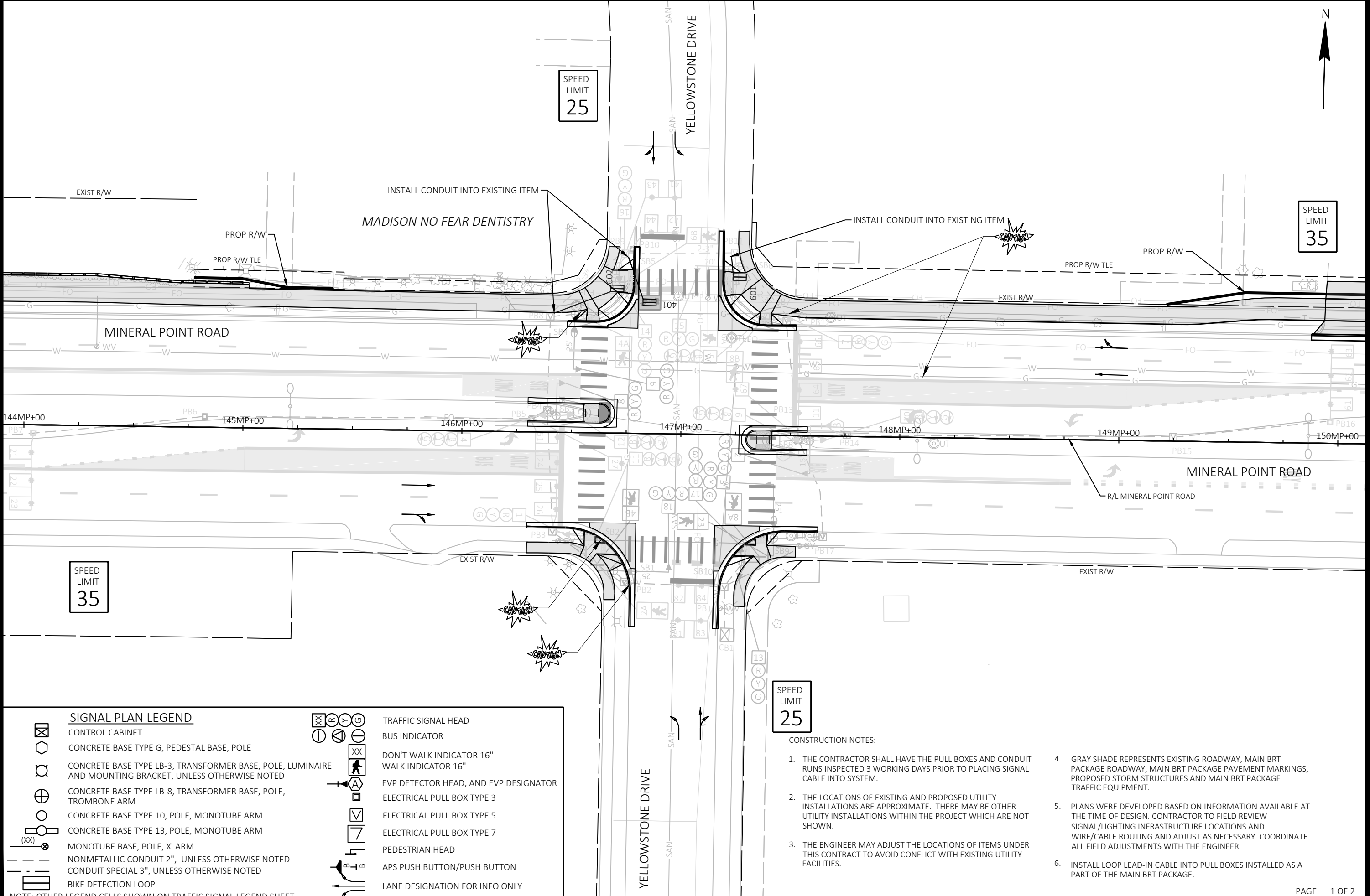


60631225P

S-5A







SIGNAL PLAN LEGEND	
	CONTROL CABINET
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM
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	BIKE DETECTION LOOP
	TRAFFIC SIGNAL HEAD
	BUS INDICATOR
	DON'T WALK INDICATOR 16" WALK INDICATOR 16"
	EVP DETECTOR HEAD, AND EVP DESIGNATOR
	ELECTRICAL PULL BOX TYPE 3
	ELECTRICAL PULL BOX TYPE 5
	ELECTRICAL PULL BOX TYPE 7
	PEDESTRIAN HEAD
	APS PUSH BUTTON/PUSH BUTTON
	LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

- CONSTRUCTION NOTES:
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  6. INSTALL LOOP LEAD-IN CABLE INTO PULL BOXES INSTALLED AS A PART OF THE MAIN BRT PACKAGE.

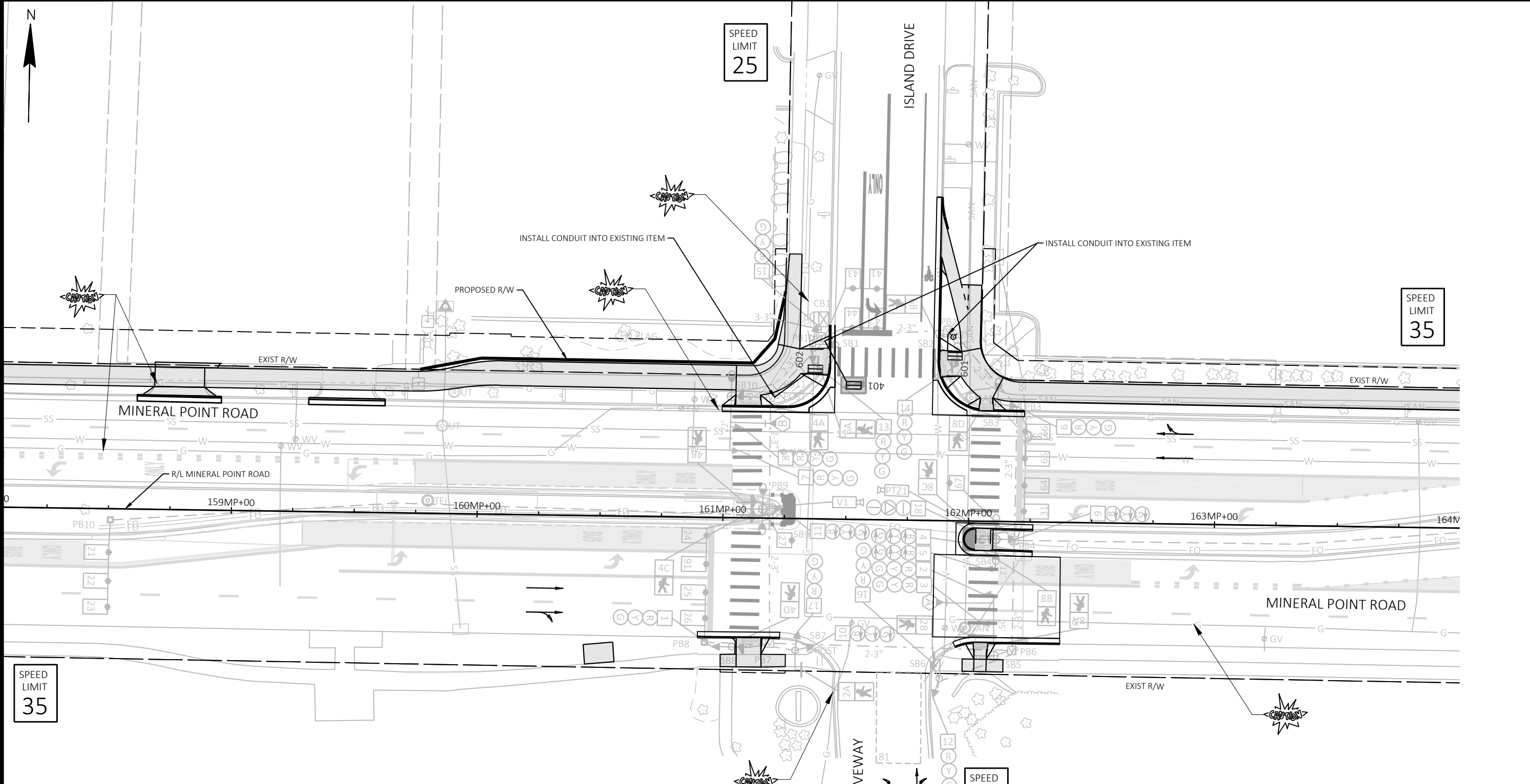
MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	60631225P
Scale: 1 IN=40 FT			

SIGNAL PLAN: MINERAL POINT ROAD AT YELLOWSTONE DRIVE  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

60631225P  
 S-6A





SPEED LIMIT 25

SPEED LIMIT 35

SPEED LIMIT 35

SPEED LIMIT 25

**SIGNAL PLAN LEGEND**

	CONTROL CABINET		TRAFFIC SIGNAL HEAD
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE		BUS INDICATOR
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED		DON'T WALK INDICATOR 16" WALK INDICATOR 16"
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM		EVP DETECTOR HEAD, AND EVP DESIGNATOR
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 3
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 5
	MONOTUBE BASE, POLE, X' ARM		ELECTRICAL PULL BOX TYPE 7
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED		PEDESTRIAN HEAD
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED		APS PUSH BUTTON/PUSH BUTTON
	BIKE DETECTION LOOP		LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

**CONSTRUCTION NOTES:**

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
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6. INSTALL LOOP LEAD-IN CABLE INTO PULL BOXES INSTALLED AS A PART OF THE MAIN BRT PACKAGE.

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	60631225P
Scale: 1 IN=40 FT			

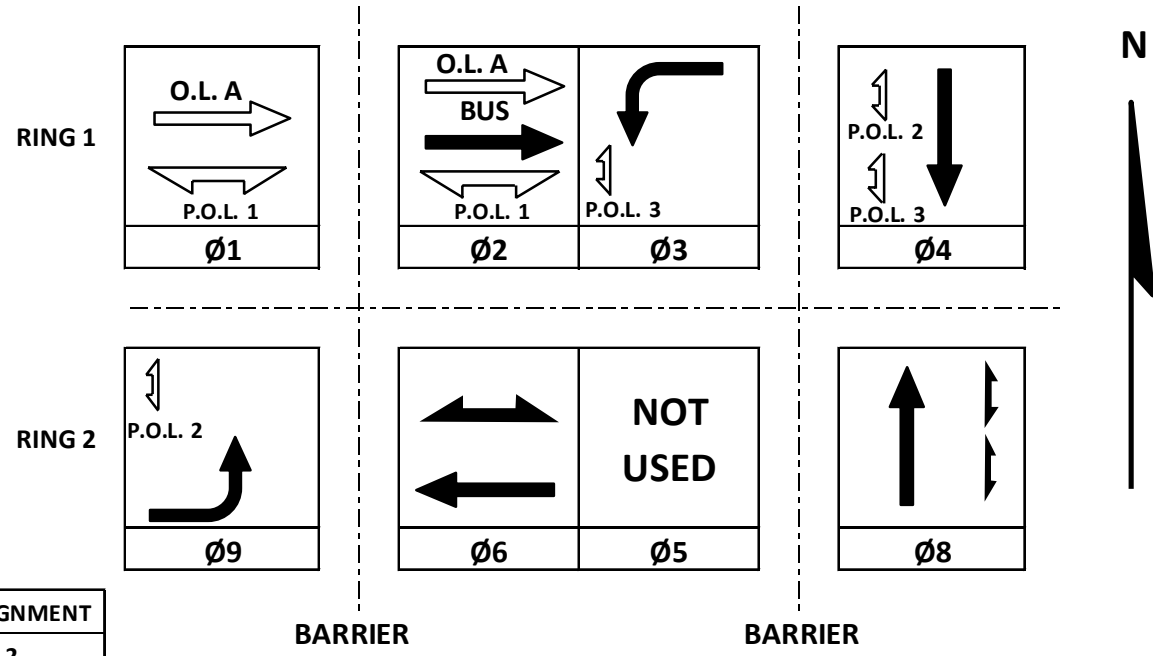
SIGNAL PLAN: MINERAL POINT ROAD AT ISLAND DRIVE  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 60631225P  
 CONTRACT NO: 60631225C



60631225P

S-7A

HEAD NUMBERS	FLASH
Ø1	
Ø2	18
Ø3	9,10,11
Ø4	15,16,17
Ø5	
Ø6	6,7,8
Ø7	
Ø8	12,13,14
Ø9	4,5
Ø2P	
Ø4P	
Ø6P	6A,6B
Ø8P	8A,8B,8C,8D
OLA	1,2,3
POL1	2A,2B
POL2	4A,4B
POL3	4C,4D



**DETECTOR LOGIC**

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	21	23	25	27	31	41	43	401
PHASE CALLED	2	2	2		3	4	4	4
PHASE EXTENDED	2	2	2		3	4	4	4
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	22	24	26			42	44	
PHASE CALLED	2	2	2			4	4	
PHASE EXTENDED	2	2	2			4	4	
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	61	63	65	67	601	81V	91	
PHASE CALLED	6	6	6		6	8	9	
PHASE EXTENDED	6	6	6		6	8	9	
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

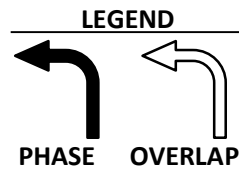
DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	62	64	66		602			
PHASE CALLED	6	6	6		6			
PHASE EXTENDED	6	6	6		6			
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

**CONTROLLER LOGIC**

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		9		X
2	X	6	MIN	X
3		6		X
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X
9		1		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE				
EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+9	6+3		

AFTER PREEMPTION SEQUENCE 2+9 OR 6+3, CONTROLLER SHALL RETURN TO PHASES 2+9.



TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

**GENERAL NOTES:**

- 
- 
- 
- 

MINERAL POINT ROAD AT ISLAND DRIVE	
CITY OF MADISON	
DANE COUNTY	
SIGNAL NO:	CABINET TYPE: TS2
CONTROLLER TYPE: COBALT	
DATE:	FEBRUARY 2023 PAGE NUMBER: 2 OF 2

60631225P  
 60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CONTRACT NO: 60631225C  
 60631225P  
 S-7B



CONSTRUCTION NOTES:

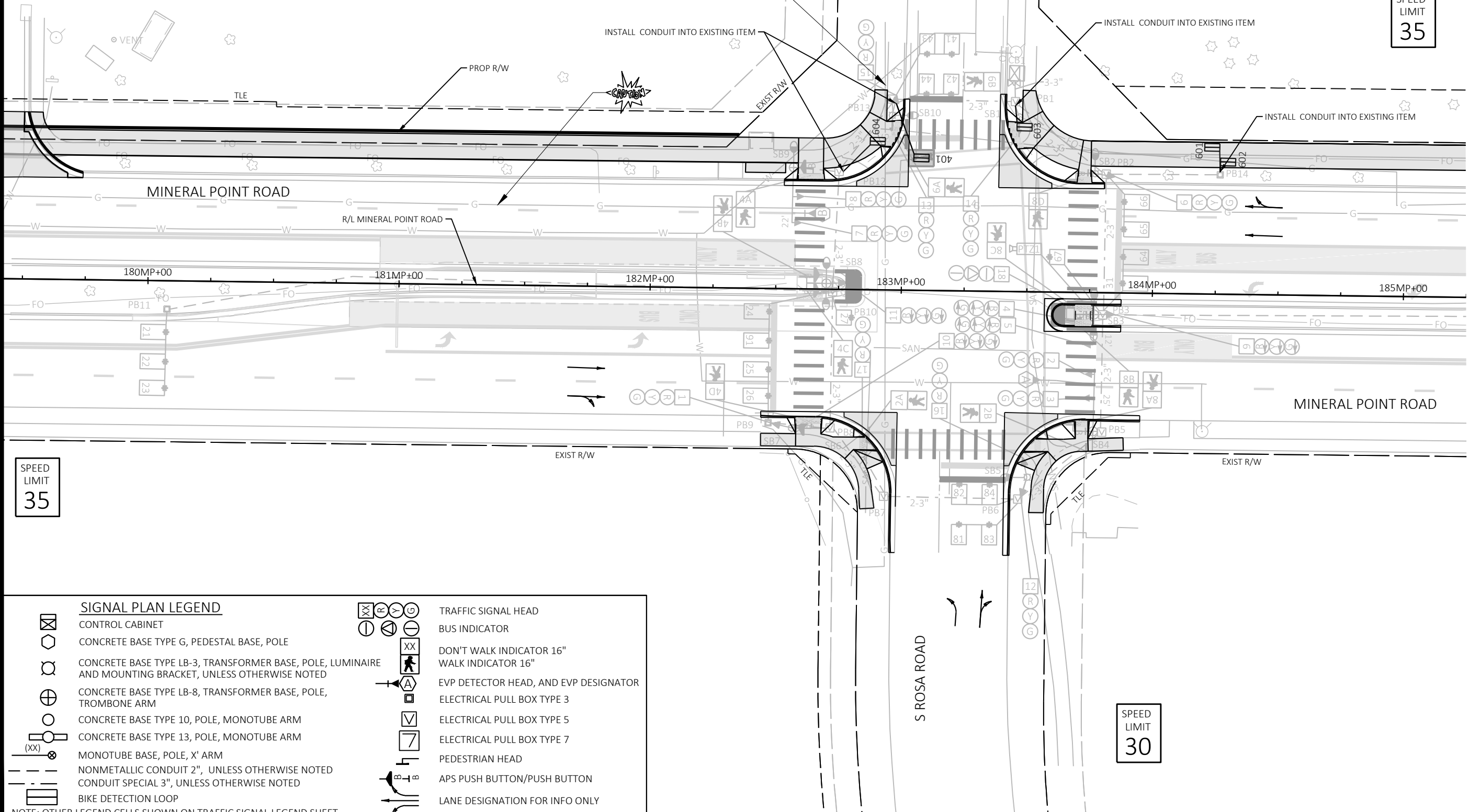
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4. GRAY SHADE REPRESENTS EXISTING ROADWAY, MAIN BRT PACKAGE ROADWAY, MAIN BRT PACKAGE PAVEMENT MARKINGS, PROPOSED PAVEMENT MARKINGS, PROPOSED STORM STRUCTURES AND MAIN BRT PACKAGE TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. INSTALL LOOP LEAD-IN CABLE INTO PULL BOXES INSTALLED AS A PART OF THE MAIN BRT PACKAGE.

SPEED LIMIT 30

SPEED LIMIT 35

SPEED LIMIT 35

SPEED LIMIT 30



SIGNAL PLAN LEGEND

	CONTROL CABINET		TRAFFIC SIGNAL HEAD
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE		BUS INDICATOR
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED		DON'T WALK INDICATOR 16" WALK INDICATOR 16"
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM		EVP DETECTOR HEAD, AND EVP DESIGNATOR
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 3
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 5
	MONOTUBE BASE, POLE, X' ARM		ELECTRICAL PULL BOX TYPE 7
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED		PEDESTRIAN HEAD
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED		APS PUSH BUTTON/PUSH BUTTON
	BIKE DETECTION LOOP		LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

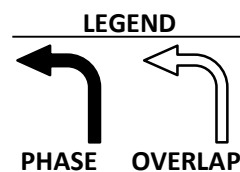
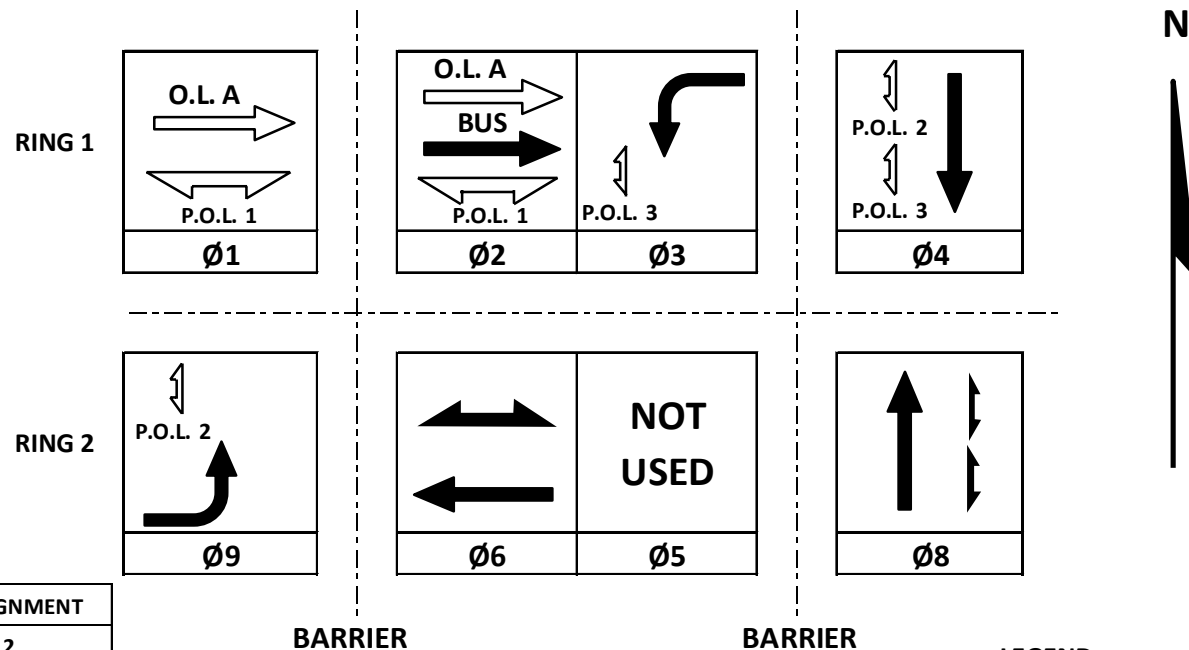
MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	
	Scale: 1 IN=40 FT		

SIGNAL PLAN: MINERAL POINT ROAD AT S ROSA ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

60631225P  
 S-8A



HEAD NUMBERS	FLASH
Ø1	
Ø2	18 R
Ø3	9,10,11
Ø4	15,16,17 R
Ø5	
Ø6	6,7,8 R
Ø7	
Ø8	12,13,14 R
Ø9	4,5
Ø2P	
Ø4P	8A,8B,8C,8D
Ø6P	6A, 6B
Ø8P	
OL ASSIGNMENT	
OLA	1,2,3
POL1	2A,2B
POL2	4A,4B
POL3	4C,4D



**DETECTOR LOGIC**

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	21	23	25	27	31	41	43	401
PHASE CALLED	2	2	2		3	4	4	4
PHASE EXTENDED	2	2	2		3	4	4	4
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	22	24	26			42	44	
PHASE CALLED	2	2	2			4	4	
PHASE EXTENDED	2	2	2			4	4	
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	61	63	65	67	602	604	82	84
PHASE CALLED	6	6	6			6	8	8
PHASE EXTENDED	6	6	6			6	8	8
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION					SYS			

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	62	64	66	601	603	81	83	91
PHASE CALLED	6	6	6		6	8	8	9
PHASE EXTENDED	6	6	6		6	8	8	9
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION					SYS			

**CONTROLLER LOGIC**

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		9		X
2	X	6	MIN	X
3		6		X
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X
9		1		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE				
EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+9	6+3		

AFTER PREEMPTION SEQUENCE 2+9 OR 6+3, CONTROLLER SHALL RETURN TO PHASES 2+9.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

**GENERAL NOTES:**

- 
- 
- 
- 

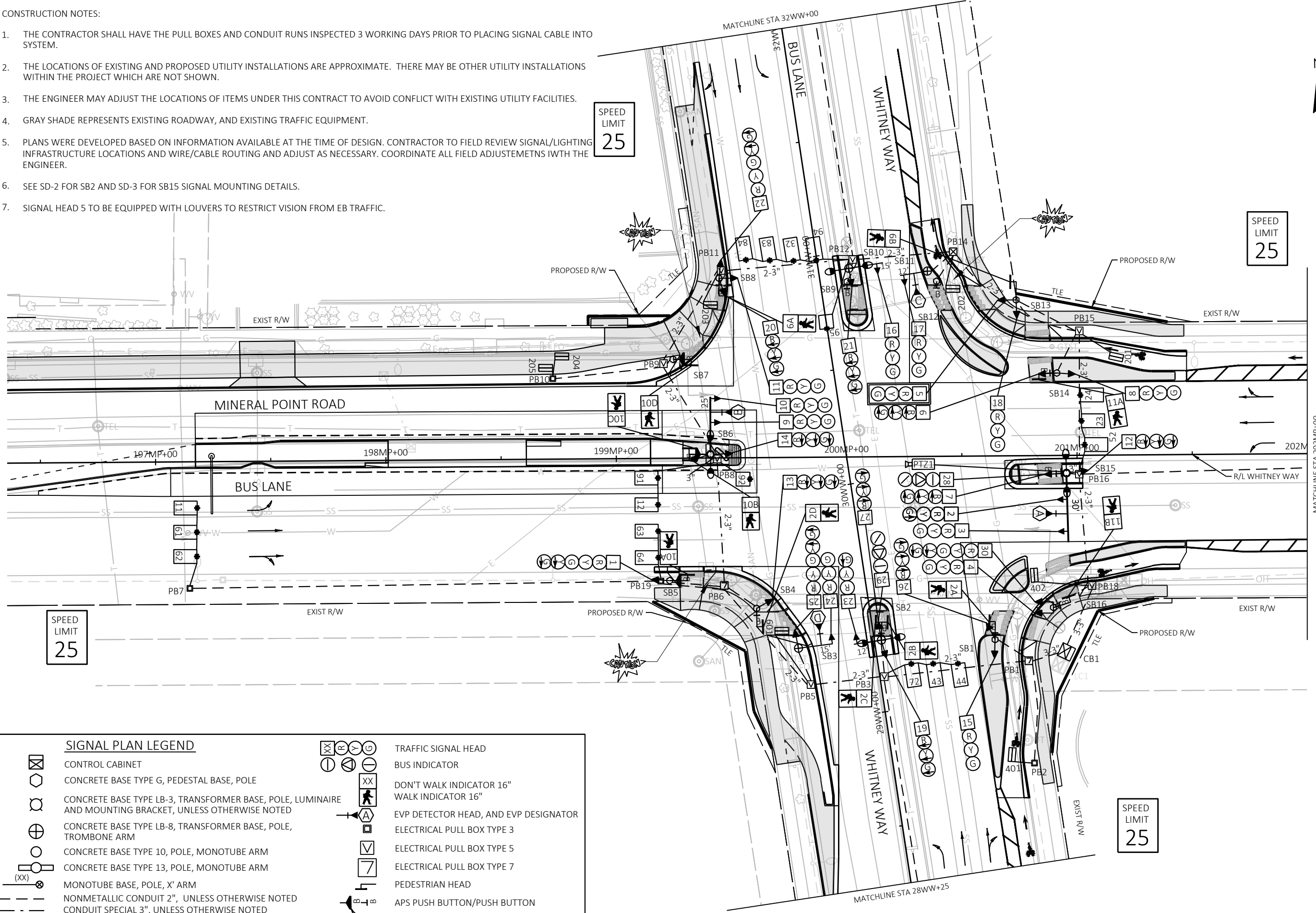
MINERAL POINT ROAD AT ROSA ROAD	
CITY OF MADISON	
DANE COUNTY	
SIGNAL NO:	CABINET TYPE: TS2
CONTROLLER TYPE: COBALT	
DATE:	FEBRUARY 2023 PAGE NUMBER: 2 OF 2

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 SEQUENCE OF OPERATION: MINERAL POINT ROAD AT ROSA ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 60631225P  
 S-8B



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. GRAY SHADE REPRESENTS EXISTING ROADWAY, AND EXISTING TRAFFIC EQUIPMENT.
5. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
6. SEE SD-2 FOR SB2 AND SD-3 FOR SB15 SIGNAL MOUNTING DETAILS.
7. SIGNAL HEAD 5 TO BE EQUIPPED WITH LOUVERS TO RESTRICT VISION FROM EB TRAFFIC.



SPEED LIMIT 25

SPEED LIMIT 25

SPEED LIMIT 25

SPEED LIMIT 25



SIGNAL PLAN LEGEND

	CONTROL CABINET		TRAFFIC SIGNAL HEAD
	CONCRETE BASE TYPE G, PEDESTAL BASE, POLE		BUS INDICATOR
	CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET, UNLESS OTHERWISE NOTED		DON'T WALK INDICATOR 16"
	CONCRETE BASE TYPE LB-8, TRANSFORMER BASE, POLE, TROMBONE ARM		WALK INDICATOR 16"
	CONCRETE BASE TYPE 10, POLE, MONOTUBE ARM		EVP DETECTOR HEAD, AND EVP DESIGNATOR
	CONCRETE BASE TYPE 13, POLE, MONOTUBE ARM		ELECTRICAL PULL BOX TYPE 3
	MONOTUBE BASE, POLE, X' ARM		ELECTRICAL PULL BOX TYPE 5
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED		ELECTRICAL PULL BOX TYPE 7
	CONDUIT SPECIAL 3", UNLESS OTHERWISE NOTED		PEDESTRIAN HEAD
			APS PUSH BUTTON/PUSH BUTTON
			LANE DESIGNATION FOR INFO ONLY

NOTE: OTHER LEGEND CELLS SHOWN ON TRAFFIC SIGNAL LEGEND SHEET

MARK	REVISION	DATE	BY
60631225P	2023-02-08		
Designed By: AECOM Scale: 1 IN=40 FT			

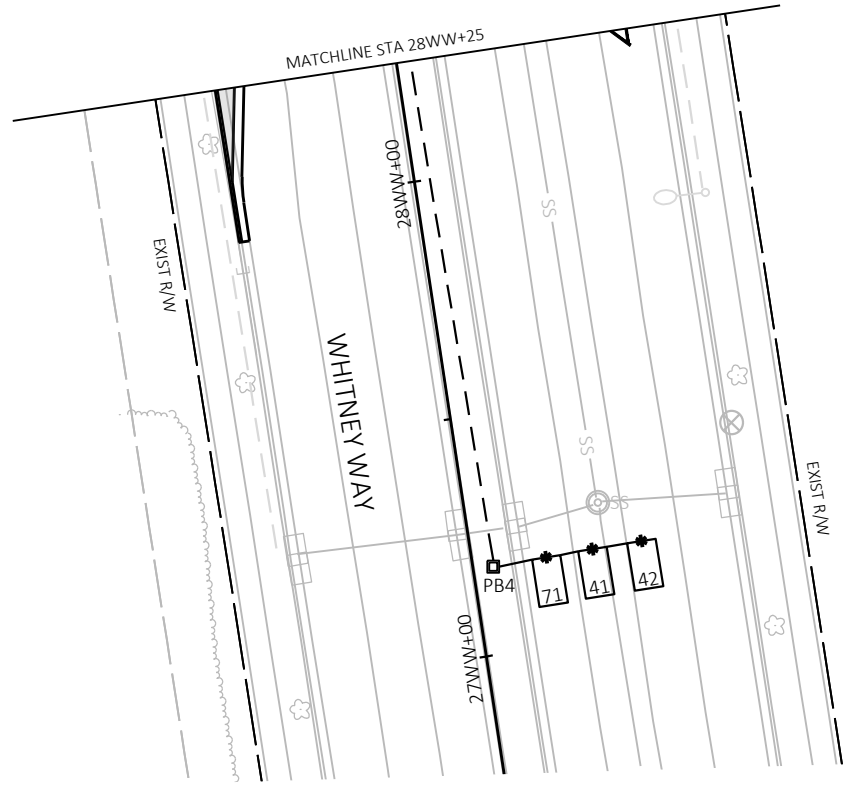
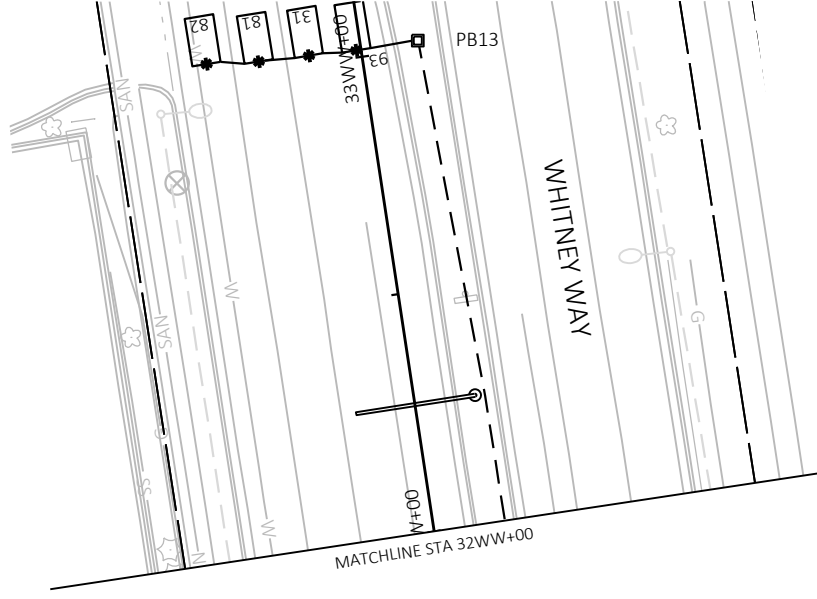
60631225P  
 SIGNAL PLAN: WHITNEY WAY AT MINERAL POINT ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P

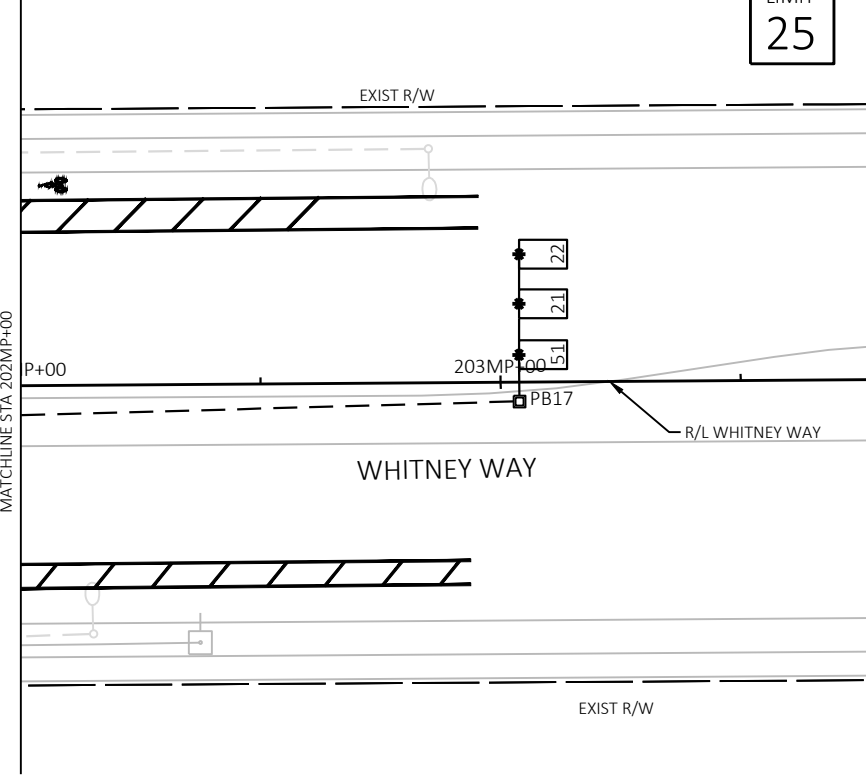
S-9B

SPEED  
LIMIT  
25



SPEED  
LIMIT  
25

MATCHLINE STA 202MP+00



SPEED  
LIMIT  
25



60631225P

S-9C

SIGNAL PLAN: WHITNEY WAY AT MINERAL POINT ROAD

MINERAL POINT ROAD WIDENED SIDEWALK

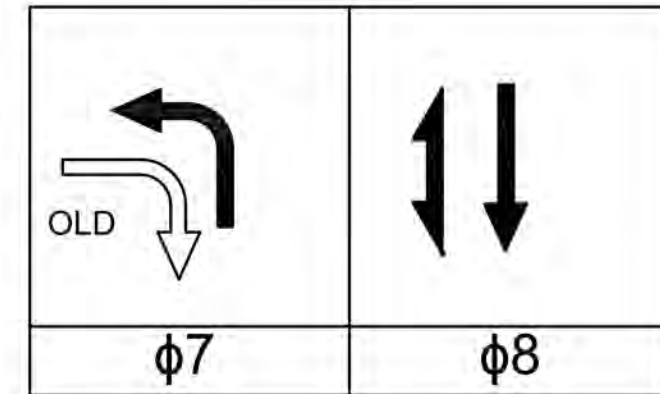
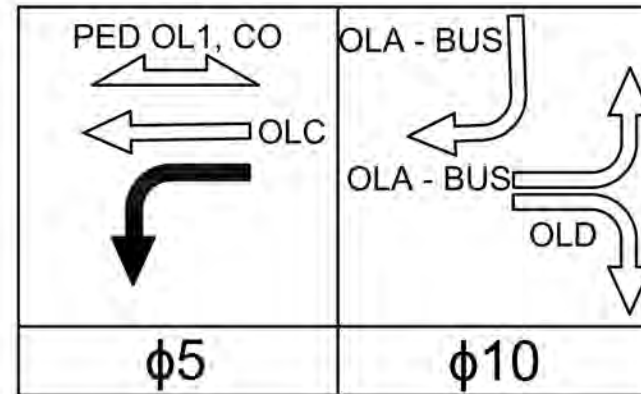
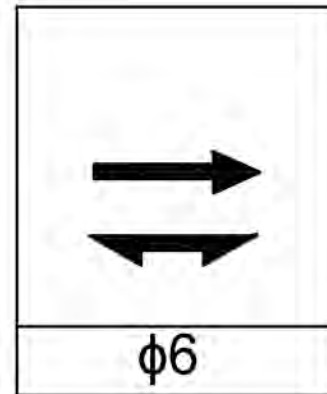
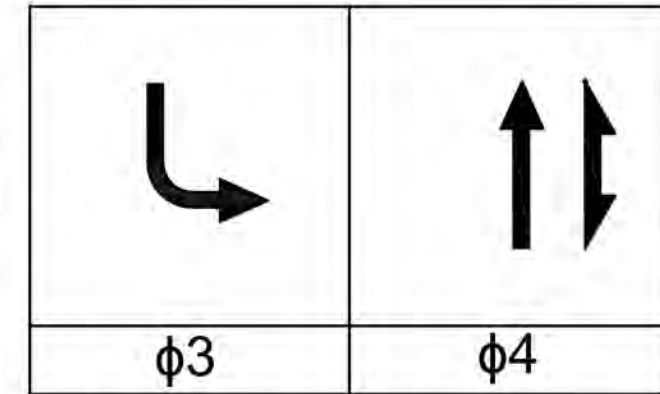
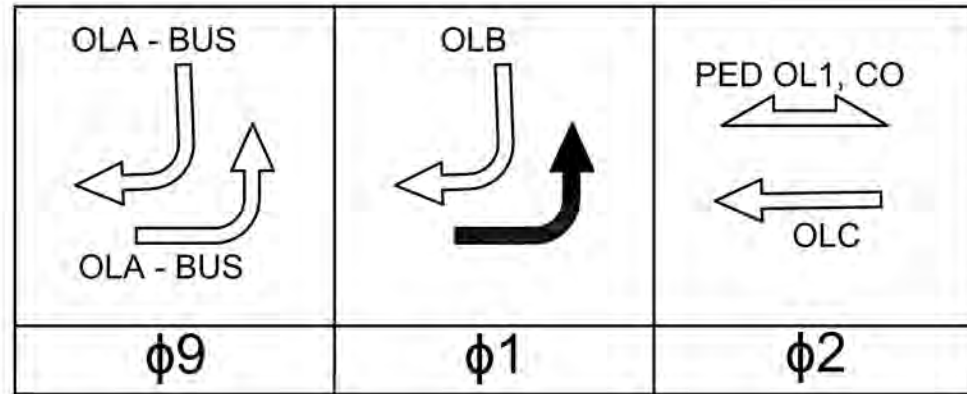
CITY OF MADISON

60631225P

CITY OF MADISON, DANE COUNTY, WI

CONTRACT NO: 60631225C

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-08	
	Date: 2023-02-08		
	Scale: 1 IN=40 FT		



**PED BUTTONS:**

- INPUT 1 = NORTH CROSSING SHOULDERS
- INPUT 2 = NORTH CROSSING MEDIAN
- INPUT 3 = EAST CROSSING SHOULDERS
- INPUT 4 = EAST CROSSING MEDIAN
- INPUT 5 = SOUTH CROSSING SHOULDERS
- INPUT 6 = SOUTH CROSSING MEDIAN
- INPUT 7 = EAST CROSSING SHOULDERS (APS)
- INPUT 8 = EAST CROSSING MEDIAN

SHOULDER BUTTONS CALL WALK2 SETTING.  
MEDIAN BUTTONS CALL WALK1 SETTING, AND CAN BE OVERRIDDEN BY WALK2 TIMING.

**BICYCLE DETECTION**

- EACH BICYCLE MOVEMENT SHALL HAVE A DETECTOR AT THE STOP BAR AND AN ADVANCED DETECTOR SET BACK APPROXIMATELY 80-FT.
- STOP BAR AND ADVANCE DETECTOR CALLS BIKE GREEN TIMING FOR THE CORRESPONDING PHASE.
- ADVANCE DETECTOR EXTENDS GREEN, AND CALLS BIKE GREEN.
- BIKE MOVEMENTS CONTROLLED BY 12" BALL INDICATORS.

**BARRIER**

**TRANSIT DETECTION AND OPERATION:**

- DETECTORS 91 AND 94 WILL CALL EITHER PHASE 9 OR PHASE 10 DEPENDING ON WHICH PHASE IS NEXT IN THE ROTATION.
- DETECTOR 91 SHALL CALL PED PHASE 8 WALK1.
- DETECTOR 94 SHALL CALL PED PHASE 8 WALK1, UPON DEPARTURE OF ZONE. IF DETECTOR 94 IS ON, CALL FLAG 1 ON, IF FLAG 1 IS ON AND DETECTOR 94 IS OFF THEN CALL PED PHASE 8 AND TURN OFF FLAG 1.
- TRANSIT SIGNAL PRIORITY MAY PLACE CALL AS BUS ARRIVES ON THE SB LEG, BUT NOT EB LEG DUE TO STOP DWELL TIME.

MARK	REVISION	DATE	BY
60631225P	2023-02-08	#####	#####

60631225P  
SIGNAL PLAN: WHITNEY WAY AT MINERAL POINT ROAD  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C





	HEAD NUMBERS	FLASH	
φ1	6, 7	R	
φ2	—	R	
φ3	26, 27	R	
φ4	15, 16, 17, 18	R	
φ5	12, 13, 14	R	
φ6	1, 2, 3, 4	R	
φ7	19, 20, 21	R	
φ8	22, 23, 24	R	
φ2 PED	—	—	
φ4 PED	11A, 11B	—	
φ6 PED	2 A-D	—	
φ8 PED	10 A-D	—	
OL A (BUS)	28	—	φ9 + φ10
OL B	22, 25	—	φ1
OL C	5, 8-12	R	φ2 + φ5
OL D	1, 3	—	φ10 + φ7
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



O.L. ASSIGNMENTS	
φ9 + φ10	
φ1	
φ2 + φ5	
φ10 + φ7	
—	
—	
—	
—	

PREEMPTION ASSIGNMENTS			
PREEMPTION DESIGNATION	PREEMPTION TYPE	EVP CHANNEL	PHASE(S) CALLED
1	RAILROAD	SEE CHART	
2	RESERVED		
3	EB EVP	A	1, 6
4	WB EVP	B	C, 5
5	NB EVP	C	4, 7
6	SB EVP	D	3, 8
7	NOT USED		
8	NOT USED		
9	NOT USED		
10	NOT USED		

CONTROLLER LOGIC				
PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / φ	PHASE RECALL	PHASE ACTIVE
1	X		NONE	X
2	X		NONE	X
3	X		NONE	X
4	X		NONE	X
5	X		NONE	X
6	X		NONE	X
7	X		NONE	X
8	X		NONE	X
9	X		NONE	X
10	X		NONE	X
11	X		NONE	X
12	X		NONE	X

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	X
RADIO	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWARE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION	
NONE	
FIBER	X
CELL MODEM	
PHONE	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45
DETECTOR #(S)	62	61	11	91	82	81	31	93	21	22	51		41	42	71			204	201	401				
PHASE CALLED	6	6	1	9/10	8	8	3	9/10	2	2	5		4	4	7			2,P8	2	4				
PHASE EXTENDED	6	6	1	9/10	8	8	3	9/10	2,5	2,5	5		4	4	7			2	2	4				
DISCONNECT TIME																								
CALLING DELAY																								
DIST. FROM STOP BAR	250	250	250'	0'	210	210	210	210	250	250	250		250	250	250			56	80	80				
LOOP FUNCTION				BUS				BUS										BIKE	BIKE	BIKE				
DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46
DETECTOR #(S)	64	63	12	92	82	81	32	94	23	24	52		43	44	72		601	203	202	402				
PHASE CALLED	6	6	1		8	8	3	9/10	2	2	5		4	4	7		6	2	2	4				
PHASE EXTENDED	6	6	1		8	8	3	9/10	2,5	2,5	5		4	4	7		6	2	2	4				
DISCONNECT TIME																								
CALLING DELAY																								
DIST. FROM STOP BAR	0'	0'	0'	-10'	0'	0'	210	210	0	0	0		0	0	0		0	0	0	0				
LOOP FUNCTION				BUS				BUS										BIKE	BIKE	BIKE	BIKE			

60631225P  
 60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 MINERAL POINT ROAD AND WHITNEY WAY  
 SEQUENCE OF OPERATIONS: MINERAL POINT ROAD AND WHITNEY WAY  
 CITY OF MADISON  
 WISCONSIN



PROJECT ID: 60631225P  
 INTERSECTION: MINERAL POINT RD & WHITNEY WAY

SIGNAL WIRE COLOR CODING	BLK-BLACK WHT-WHITE	RED-RED BLU-BLUE	GRN-GREEN ORG-ORANGE
--------------------------	------------------------	---------------------	-------------------------

DATE: Feb-23

CB1 TO SB1	AWG 14 # OF COND.	HEAD NO.	SIGNAL INDICATION WIRE COLOR											PED BUTTON	OTHER			
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	" - "	" Δ "	"   "	D/WALK			WALK		
SB1	12	15	RED	ORG	GRN													
		26				RED/BLK	ORG/BLK		GRN/BLK									
		2A											BLK	BLU				
		PB														WHT/BLK		
SB2	19	19				RED/BLK	ORG/BLK		GRN/BLK									
		23	RED	ORG	GRN													
		27				RED/WHT	ORG/RED		GRN/WHT									
		29								BLU/WHT	BLK/RED	WHT/RED						
		2B											BLK	BLU				
SB3	7	24	RED	ORG	GRN													
		25	RED	ORG	GRN		BLU		BLK									
		SB4	12	13				RED	ORG		GRN							
				2D										BLK	BLU			
SB5	12	PB															WHT/BLK	
		1	RED	ORG	GRN		ORG/BLK		GRN/BLK									
		10A											BLK	BLU				
		PB															WHT/BLK	
SB6	15	9	RED	ORG	GRN													
		10	RED	ORG	GRN													
		14				RED/BLK	ORG/BLK		GRN/BLK									
		10B											BLK	BLU				
		10C											BLK/WHT	BLU/BLK				
SB7	7	PB															WHT/BLK	
		10D											BLK	BLU				
		SB8	19	11	RED	ORG	GRN											
				20				RED/BLK	ORG/BLK		GRN/BLK							
SB9	7	22	RED/WHT	ORG/RED	GRN/WHT													
		6A											BLK	BLU				
		PB															WHT/BLK	
		PB															WHT/BLK	
SB10	12	16	RED	ORG	GRN													
		21				RED/BLK	ORG/BLK		GRN/BLK									
SB11	7	17	RED	ORG	GRN													
SB12	7	PB															WHT/BLK	
SB13	12	5	RED	ORG	GRN													
		18	RED/BLK	ORG/BLK	GRN/BLK													
		6B											BLK	BLU				
SB14	12	6				RED/BLK	ORG/BLK		GRN/BLK									
		8	RED	ORG	GRN													
		11A											BLK	BLU				
		PB															WHT/BLK	
SB15	15	2	RED	ORG	GRN					BLK/WHT								
		3	RED	ORG	GRN													
		7				RED/BLK	ORG/BLK		GRN/BLK									
		12				RED/WHT	BLU/BLK		GRN/WHT									
		28								BLK	BLU	WHT/BLK						
SB16	15	4	RED	ORG	GRN													
		30	RED/BLK	ORG/BLK	GRN/BLK				BLU/BLK		GRN/WHT							
		11B											BLK	BLU				
		PB															WHT/BLK	

- NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
  2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
  3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

Mark	REVISION	DATE
Designed By: AECOM	Date: 2/6/2023	Scale: NTS

CABLE ROUTING: MINERAL POINT ROAD AT WHITNEY WAY  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

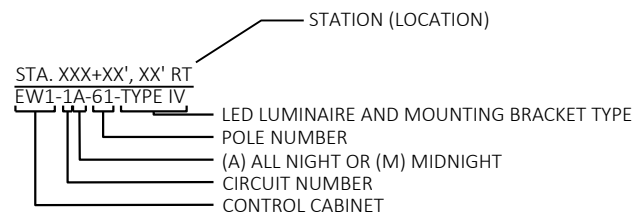


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 S-9F

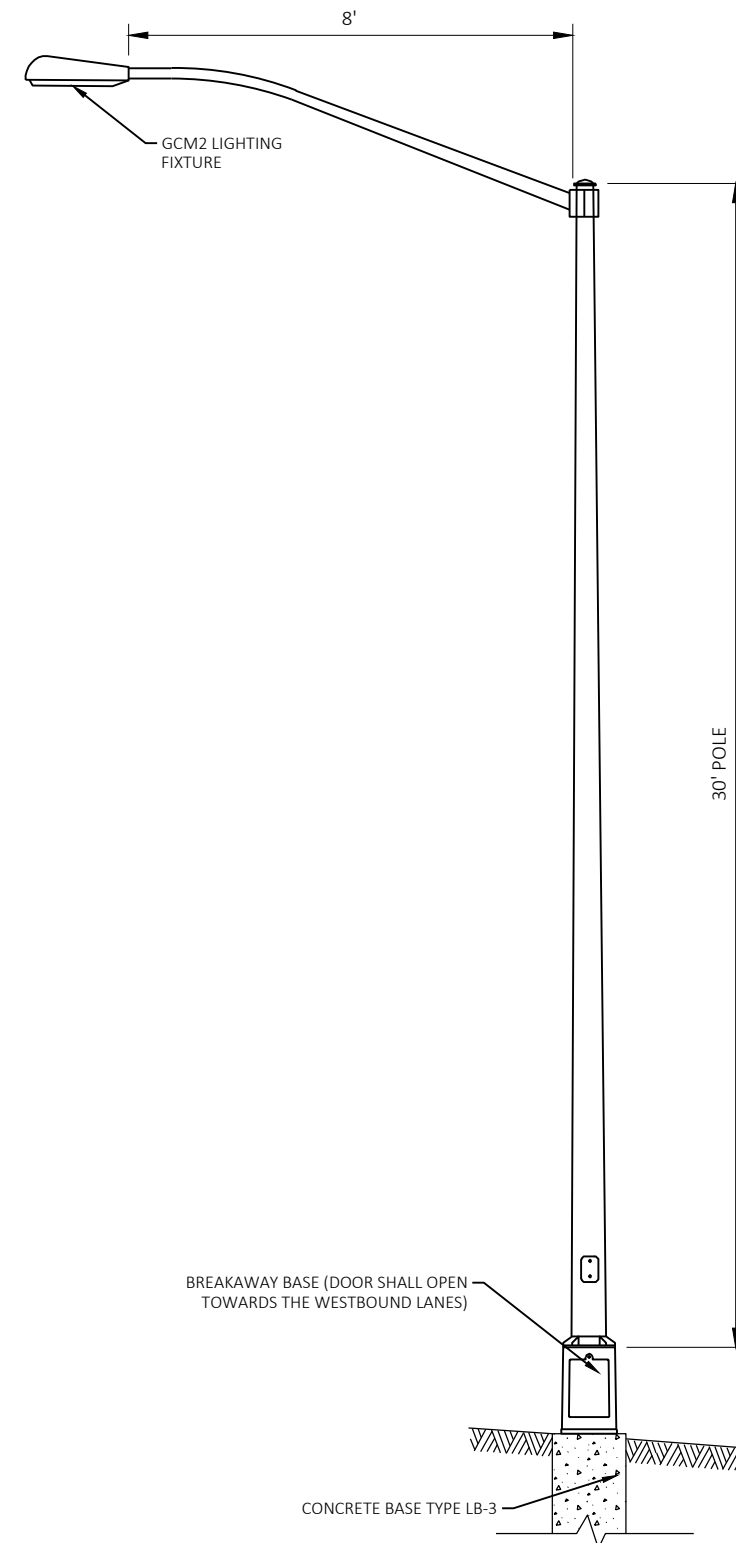
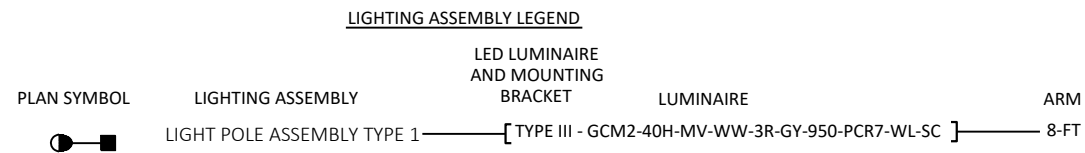


CONSTRUCTION NOTES:

1. ALL PROPOSED CIRCUITS ARE 120/240V.
2. COORDINATE ALL MODIFICATIONS OF EXISTING LIGHTING CIRCUITS WITH THE CITY OF MADISON.
3. NO CIRCUIT CONDUCTOR SPLICES ARE ALLOWED IN PULL BOXES.
4. REMOVAL OF ALL AERIAL CABLE AND ABANDONMENT OF BELOW GRADE WIRING IS INCIDENTAL TO THE REMOVING LIGHTING UNITS BID ITEM.
5. CONTACT CITY FORESTRY 48-HOURS PRIOR TO INSTALLING STREET LIGHTS IF TREE TRIMMING IS NEEDED.
6. THE MINIMUM OFFSET FOR STREET LIGHT BASES FROM THE EDGE OF DRIVEWAYS SHALL BE:  
RESIDENTIAL - 5'  
COMMERCIAL - 10'
7. CHECK FOR BASES OVERHEAD UTILITY CONFLICTS PRIOR TO CONSTRUCTING THE CONCRETE BASES.
8. INSTALLING WOOD POLES, RELOCATING LIGHTING CONTROL CABINETS, INSTALLING GUY WIRES, AERIAL CABLE, AND CONDUIT RISERS ARE INCIDENTAL TO THE TEMPORARY LIGHTING BID ITEM.
9. REMOVAL AND DISPOSAL OF ELECTRICAL WIRE IS COVERED UNDER THE REMOVING STREET LIGHTING ASSEMBLY BID ITEM AND/OR REMOVING TRAFFIC SIGNALS (LOCATION) BID ITEMS.



TEMPORARY LIGHTING LOCATIONS  
MINERAL POINT & WHITNEY WAY



LIGHT POLE ASSEMBLY TYPE 1

REVISION	DATE	BY

Designed By: AECOM | Date: 2023-02-07  
60631225P  
Scale: #####

60631225P  
CITY OF MADISON  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

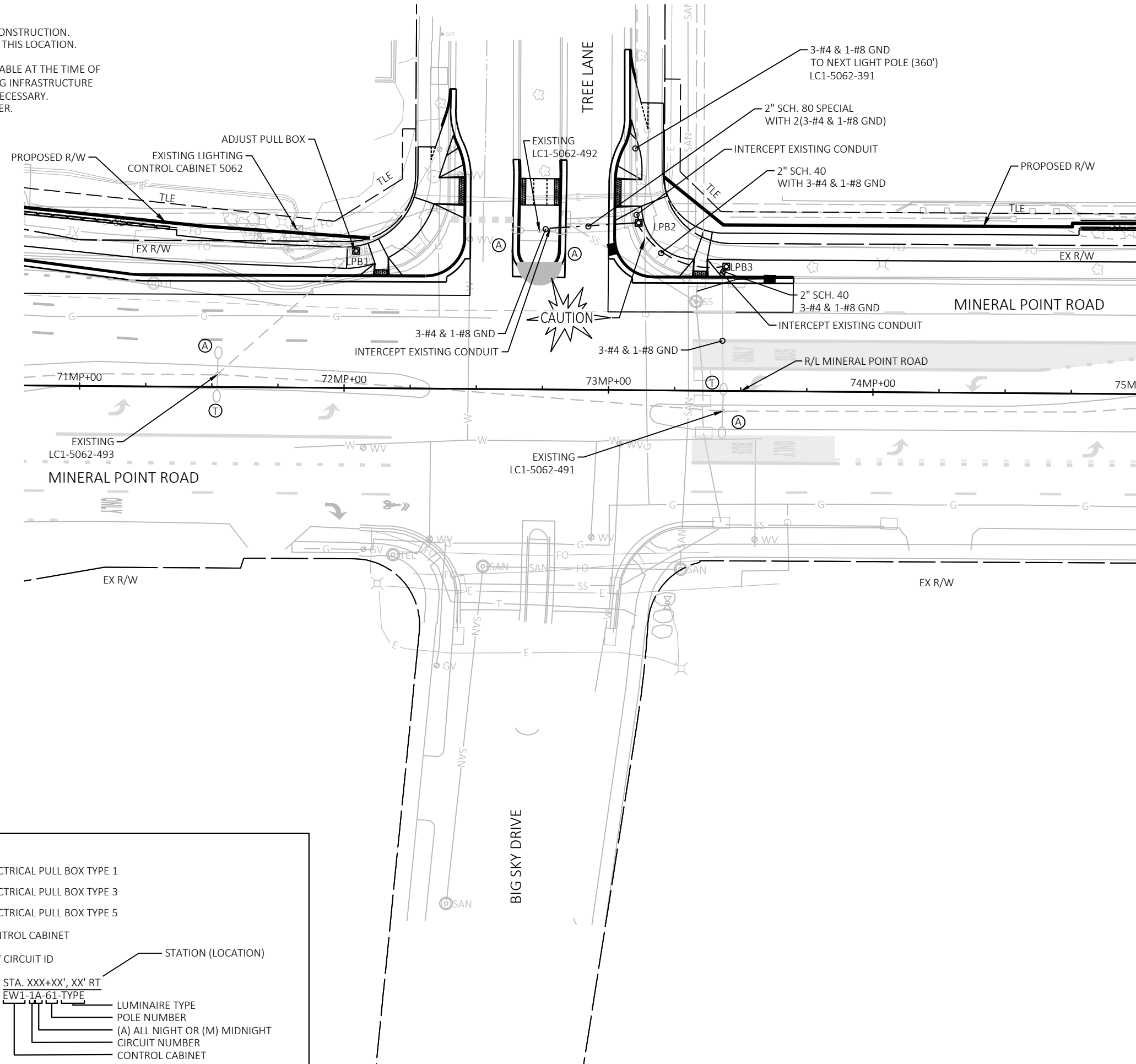


60631225P  
L-1A



CONSTRUCTION NOTES:

1. LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. NO TEMPORARY LIGHTING SYSTEM WILL BE INSTALLED AT THIS LOCATION.
2. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.



LIGHTING PLAN LEGEND

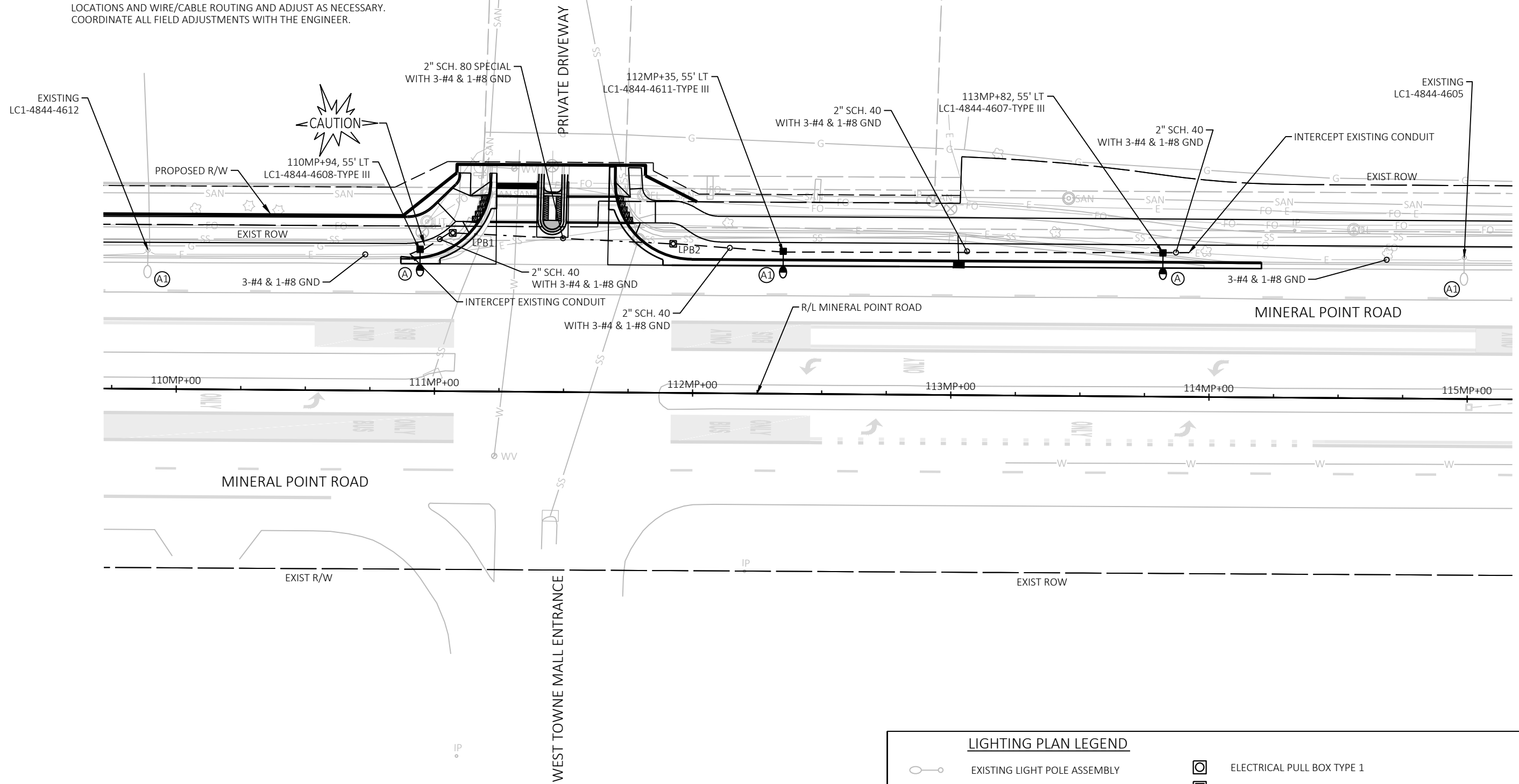
- |  |  |  |  |
|--|--|--|--|
|  | EXISTING LIGHT POLE ASSEMBLY               |  | ELECTRICAL PULL BOX TYPE 1             |
|  | LIGHT POLE ASSEMBLY TYPE 1                 |  | ELECTRICAL PULL BOX TYPE 3             |
|  | LIGHT POLE ASSEMBLY TYPE 2                 |  | ELECTRICAL PULL BOX TYPE 5             |
|  | LIGHT POLE ASSEMBLY TYPE 3                 |  | CONTROL CABINET                        |
|  | LIGHT POLE ASSEMBLY TYPE 4                 |  | CITY CIRCUIT ID                        |
|  | 2" PVC CONDUIT (SCHEDULE NOTED ON PLANS)   |  | STATION (LOCATION)                     |
|  | CONDUIT SPECIAL 2", UNLESS OTHERWISE NOTED |  | STA. XXX+XX', XX' RT<br>EW1-1A-61-TYPE |
|  |  |  | LUMINAIRE TYPE                         |
|  |  |  | POLE NUMBER                            |
|  |  |  | (A) ALL NIGHT OR (M) MIDNIGHT          |
|  |  |  | CIRCUIT NUMBER                         |
|  |  |  | CONTROL CABINET                        |

MARK	REVISION	DATE	BY
	Designed By: AECOM	2023-02-07	
	60631225P		

60631225P  
 LIGHTING PLAN: MINERAL POINT ROAD AT TREE LANE  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 60631225P  
 L-1

CONSTRUCTION NOTES:

- LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. NO TEMPORARY SYSTEM WILL BE INSTALLED AT THIS LOCATION.
- PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.



**LIGHTING PLAN LEGEND**

	EXISTING LIGHT POLE ASSEMBLY		ELECTRICAL PULL BOX TYPE 1
	LIGHT POLE ASSEMBLY TYPE 1		ELECTRICAL PULL BOX TYPE 3
	LIGHT POLE ASSEMBLY TYPE 2		ELECTRICAL PULL BOX TYPE 5
	LIGHT POLE ASSEMBLY TYPE 3		CONTROL CABINET
	LIGHT POLE ASSEMBLY TYPE 4		CITY CIRCUIT ID
	2" PVC CONDUIT (SCHEDULE NOTED ON PLANS)		
	CONDUIT SPECIAL 2", UNLESS OTHERWISE NOTED		

STATION (LOCATION)  
 STA. XXX+XX', XX' RT  
 LUMINAIRE TYPE  
 POLE NUMBER  
 (A) ALL NIGHT OR (M) MIDNIGHT  
 CIRCUIT NUMBER  
 CONTROL CABINET

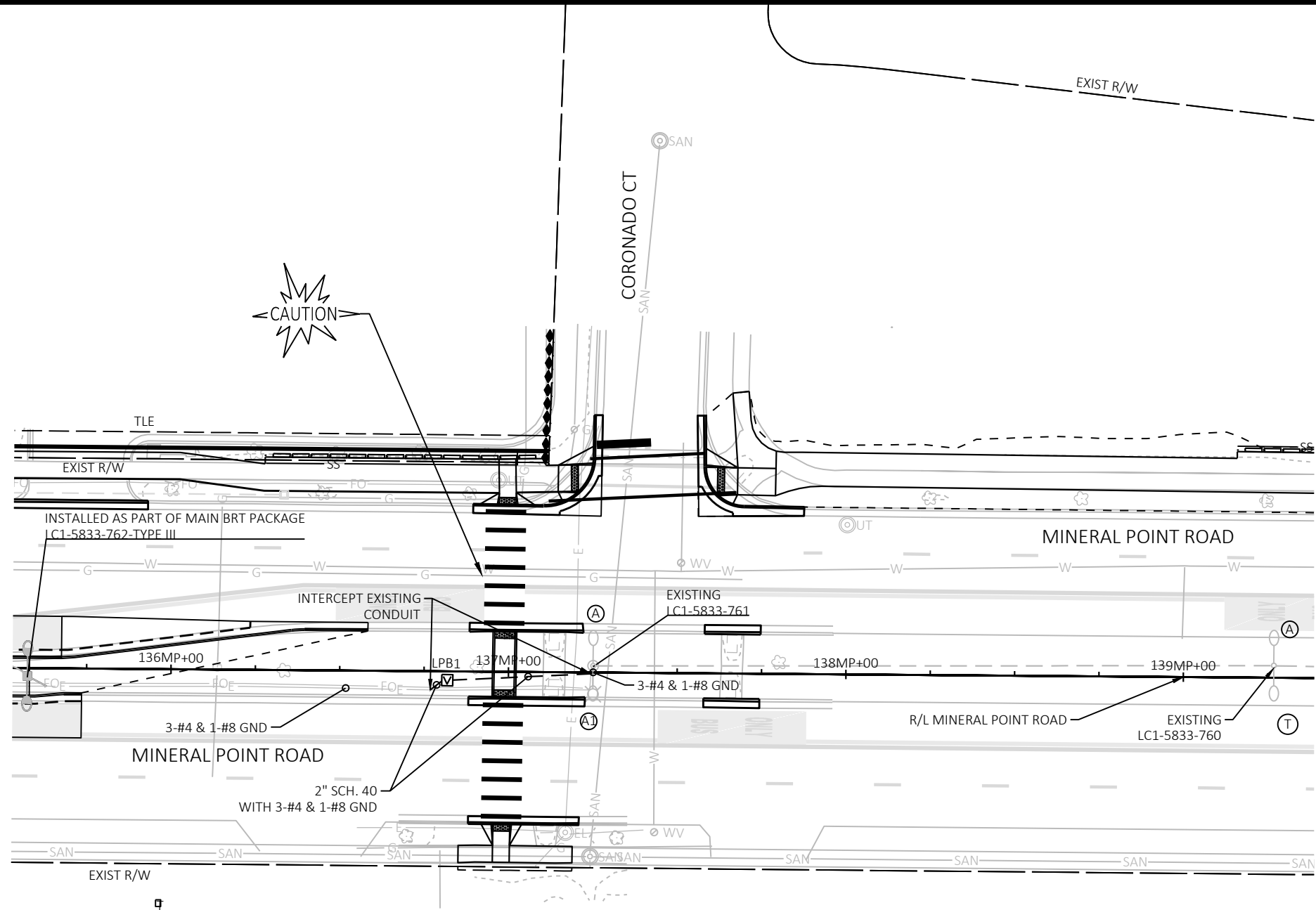
MARK	REVISION	DATE	BY

Designed By: AECOM | Date: 2023-02-07  
60631225P

60631225P  
 LIGHTING PLAN: EB MINERAL POINT ROAD AT WEST TOWNE MALL  
 CITY OF MADISON, DANE COUNTY, WI  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CONTRACT NO: 60631225C  
 CITY OF MADISON



60631225P  
 L-2



**LIGHTING PLAN LEGEND**

	EXISTING LIGHT POLE ASSEMBLY		ELECTRICAL PULL BOX TYPE 1
	LIGHT POLE ASSEMBLY TYPE 1		ELECTRICAL PULL BOX TYPE 3
	LIGHT POLE ASSEMBLY TYPE 2		ELECTRICAL PULL BOX TYPE 5
	LIGHT POLE ASSEMBLY TYPE 3		CONTROL CABINET
	LIGHT POLE ASSEMBLY TYPE 4		CITY CIRCUIT ID
	2" PVC CONDUIT (SCHEDULE NOTED ON PLANS)		
	CONDUIT SPECIAL 2", UNLESS OTHERWISE NOTED		

	STATION (LOCATION)
	STA. XXX+XX', XX' RT EW1-1A-61-TYPE
	LUMINAIRE TYPE
	POLE NUMBER
	(A) ALL NIGHT OR (M) MIDNIGHT
	CIRCUIT NUMBER
	CONTROL CABINET

**CONSTRUCTION NOTES:**

1. LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. NO TEMPORARY SYSTEM WILL BE INSTALLED AT THIS LOCATION.
2. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.

MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	60631225P
Scale: 1 IN=40 FT			

LIGHTING PLAN: WB MINERAL POINT ROAD AT CORONADO CT  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
 CITY OF MADISON  
 CONTRACT NO: 60631225C



60631225P



PLACE HOLDER FOR WHITNEY WAY AND MINERAL POINT ROAD TEMPORARY LIGHTING  
WILL ADD FOR FINAL SUBMITTAL.

L-4A

60631225P



**CITY OF MADISON**

MINERAL POINT ROAD WIDENED SIDEWALK

CITY OF MADISON, DANE COUNTY, WI

WHITNEY WAY AT MINERAL POINT ROAD

60631225P

MARK  
Designed By: AECOM  
60631225P

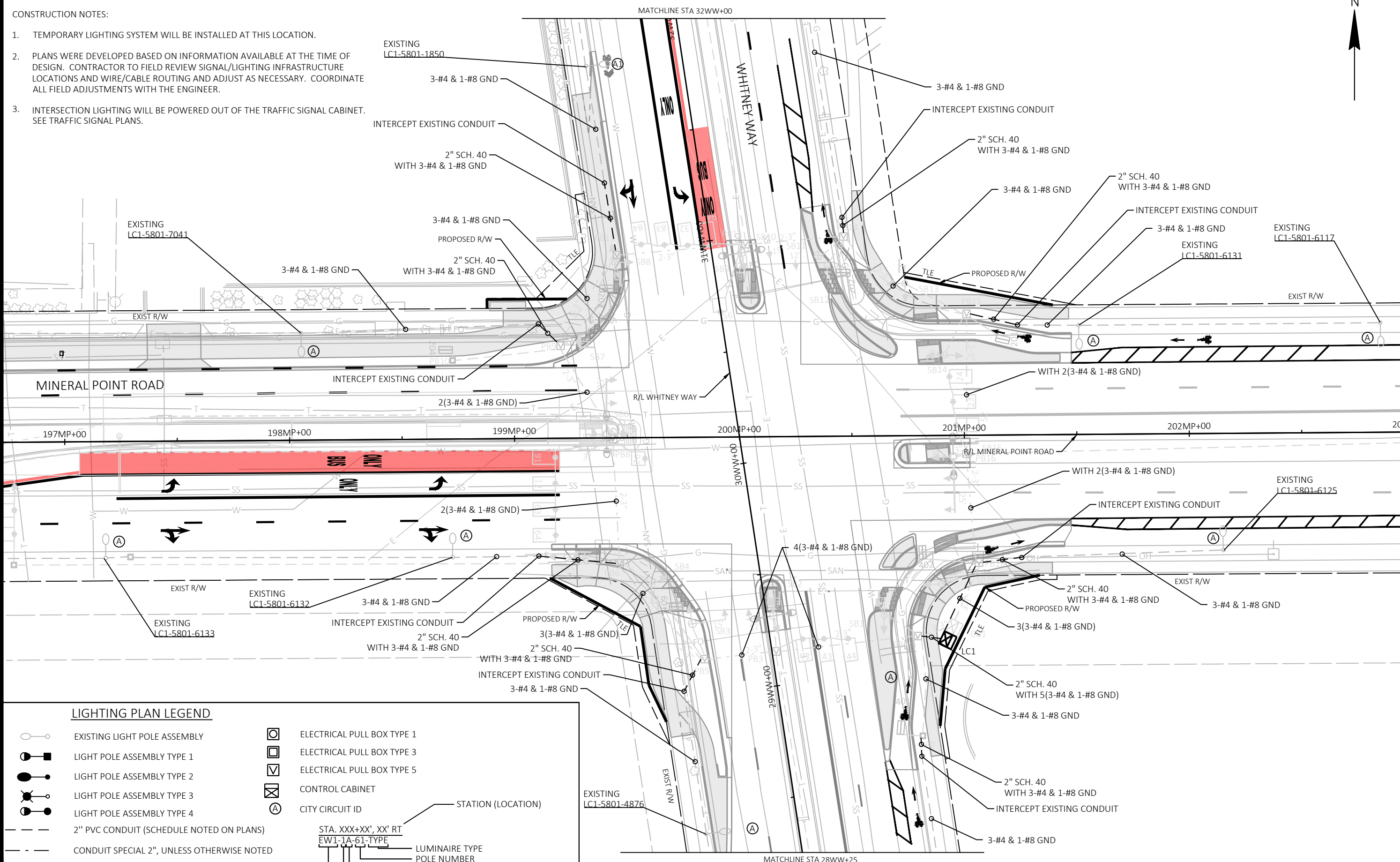
REVISION  
Date: 2023-02-07

DATE | BY  
Scale: #####



CONSTRUCTION NOTES:

1. TEMPORARY LIGHTING SYSTEM WILL BE INSTALLED AT THIS LOCATION.
2. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
3. INTERSECTION LIGHTING WILL BE POWERED OUT OF THE TRAFFIC SIGNAL CABINET. SEE TRAFFIC SIGNAL PLANS.



**LIGHTING PLAN LEGEND**

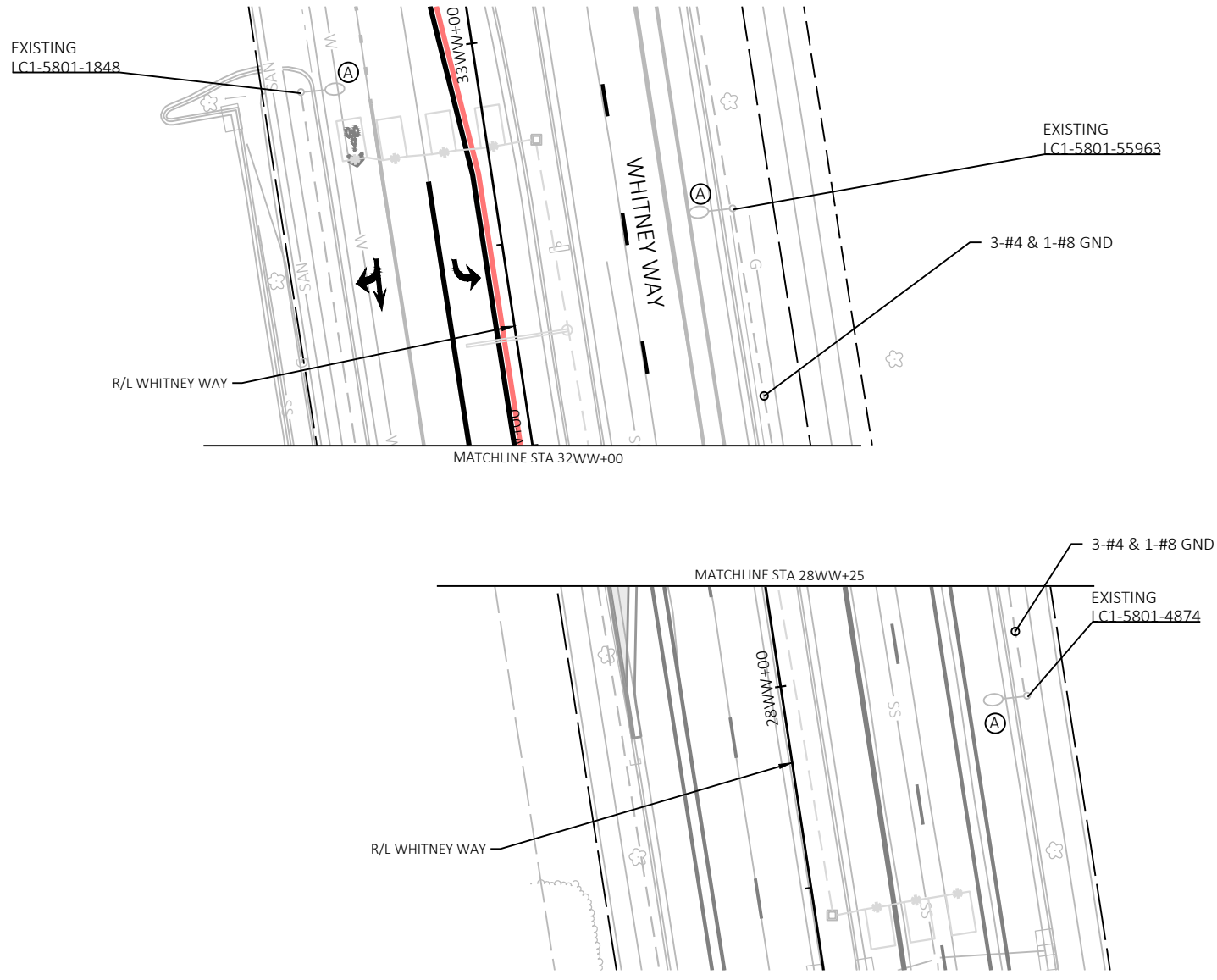
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|--|--|--|-------------------------------|
|  | EXISTING LIGHT POLE ASSEMBLY               |  | ELECTRICAL PULL BOX TYPE 1    |
|  | LIGHT POLE ASSEMBLY TYPE 1                 |  | ELECTRICAL PULL BOX TYPE 3    |
|  | LIGHT POLE ASSEMBLY TYPE 2                 |  | ELECTRICAL PULL BOX TYPE 5    |
|  | LIGHT POLE ASSEMBLY TYPE 3                 |  | CONTROL CABINET               |
|  | LIGHT POLE ASSEMBLY TYPE 4                 |  | CITY CIRCUIT ID               |
|  | 2" PVC CONDUIT (SCHEDULE NOTED ON PLANS)   |  | STATION (LOCATION)            |
|  | CONDUIT SPECIAL 2", UNLESS OTHERWISE NOTED |  | LUMINAIRE TYPE                |
|  |  |  | POLE NUMBER                   |
|  |  |  | (A) ALL NIGHT OR (M) MIDNIGHT |
|  |  |  | CIRCUIT NUMBER                |
|  |  |  | CONTROL CABINET               |

MARK	REVISION	DATE	BY

Designed By: AECOM  
Date: 2023-02-07  
Scale: 1 IN=40 FT  
60631225P

LIGHTING PLAN: WHITNEY WAY AT MINERAL POINT ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C

60631225P  
L-4C



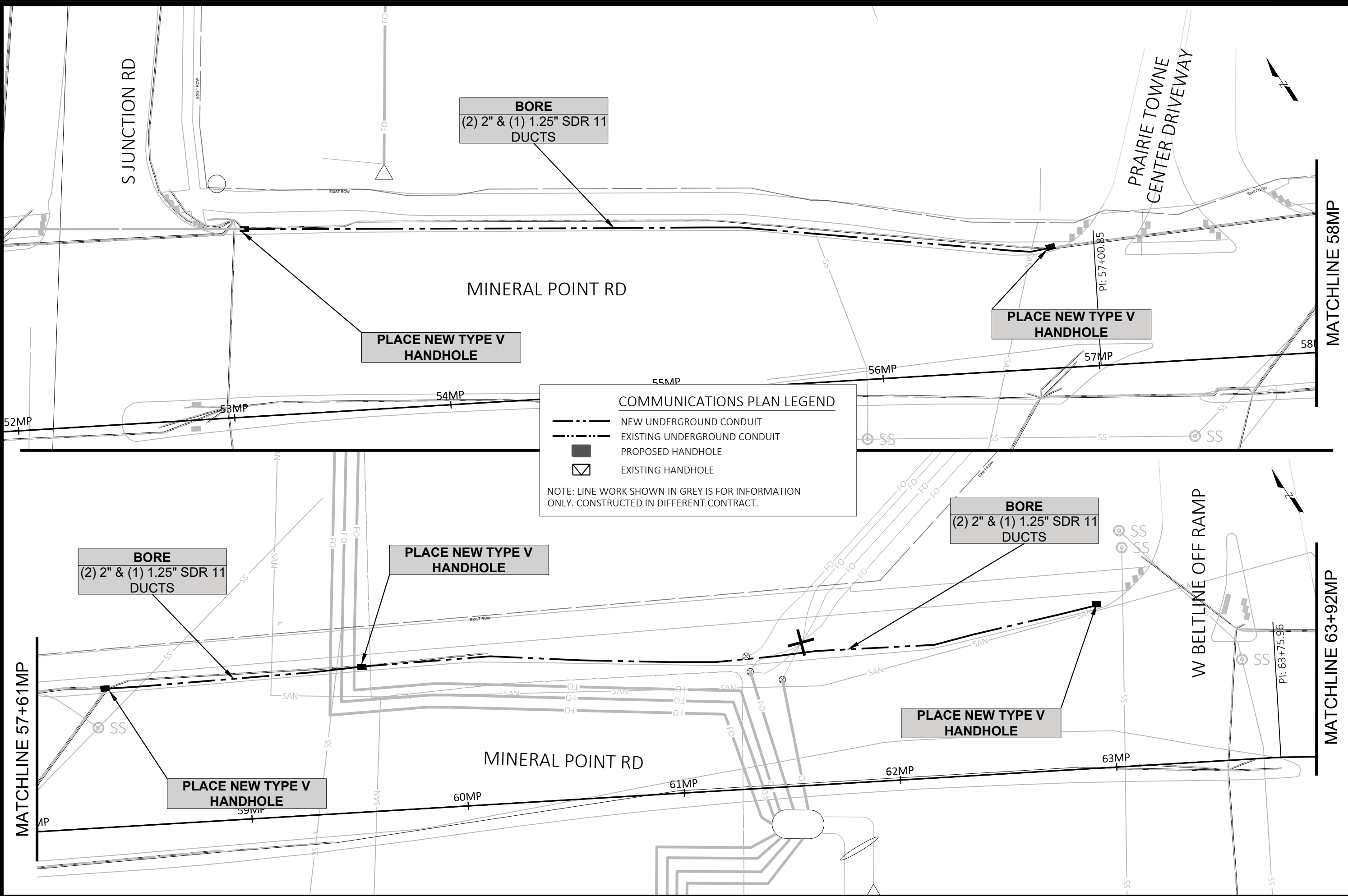
MARK	REVISION	DATE	BY
60631225P	Designed By: AECOM	2023-02-07	

LIGHTING PLAN: WHITNEY WAY AT MINERAL POINT ROAD  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON, DANE COUNTY, WI  
**CITY OF MADISON**  
 CONTRACT NO: 60631225C



60631225P

L-4D



**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**PLACE NEW TYPE V  
HANDHOLE**

**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- - - EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- ⊠ EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**PLACE NEW TYPE V  
HANDHOLE**

MARK	REVISION	DATE	BY

Scale: 1" = 40 FT  
60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



60631225P  
CP-01



MATCHLINE 63+92MP

MATCHLINE 69+83MP

MATCHLINE 69+83MP

MATCHLINE 75+74MP

W BELTLINE/HWY E

W BELTLINE/HWY E

W BELTLINE ON-RAMP

MINERAL POINT RD

TREE LN

MINERAL POINT RD

PLACE NEW TYPE V HANDHOLE

PLACE NEW TYPE V HANDHOLE

PLACE NEW TYPE V HANDHOLE





BORE  
(2) 2" & (1) 1.25" SDR 11 DUCTS

BORE  
(2) 2" & (1) 1.25" SDR 11 DUCTS

BORE  
(2) 2" & (1) 1.25" SDR 11 DUCTS

PLACE NEW TYPE V HANDHOLE

**COMMUNICATIONS PLAN LEGEND**

-  NEW UNDERGROUND CONDUIT
-  EXISTING UNDERGROUND CONDUIT
-  PROPOSED HANDHOLE
-  EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY

Scale: 1"=40 FT  
60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



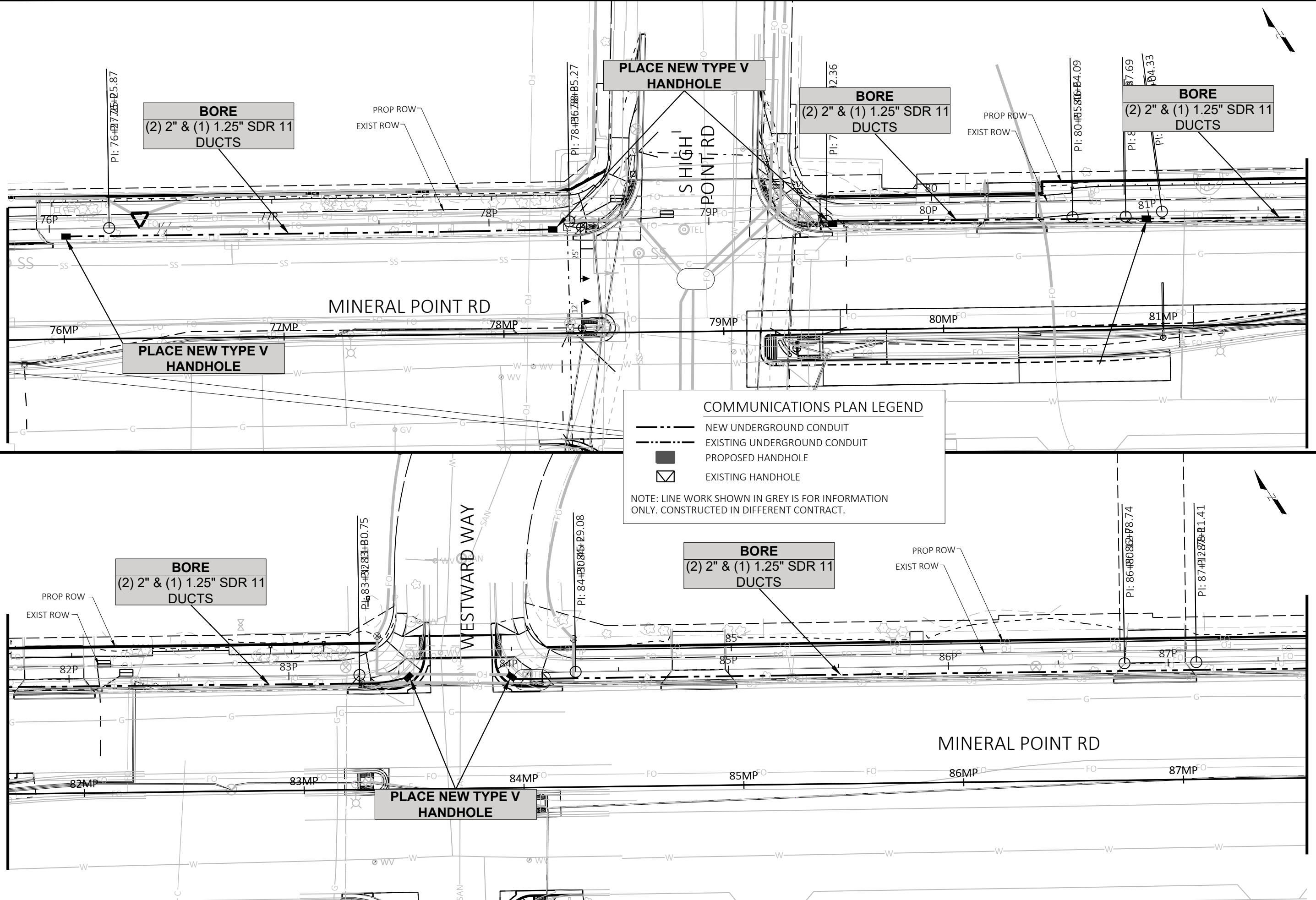
60631225P  
CP-02

MATCHLINE 75+74MP

MATCHLINE 81+65MP

MATCHLINE 81+65MP

MATCHLINE 87+56MP



**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**PLACE NEW TYPE V  
HANDHOLE**

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY

Scale: #####

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

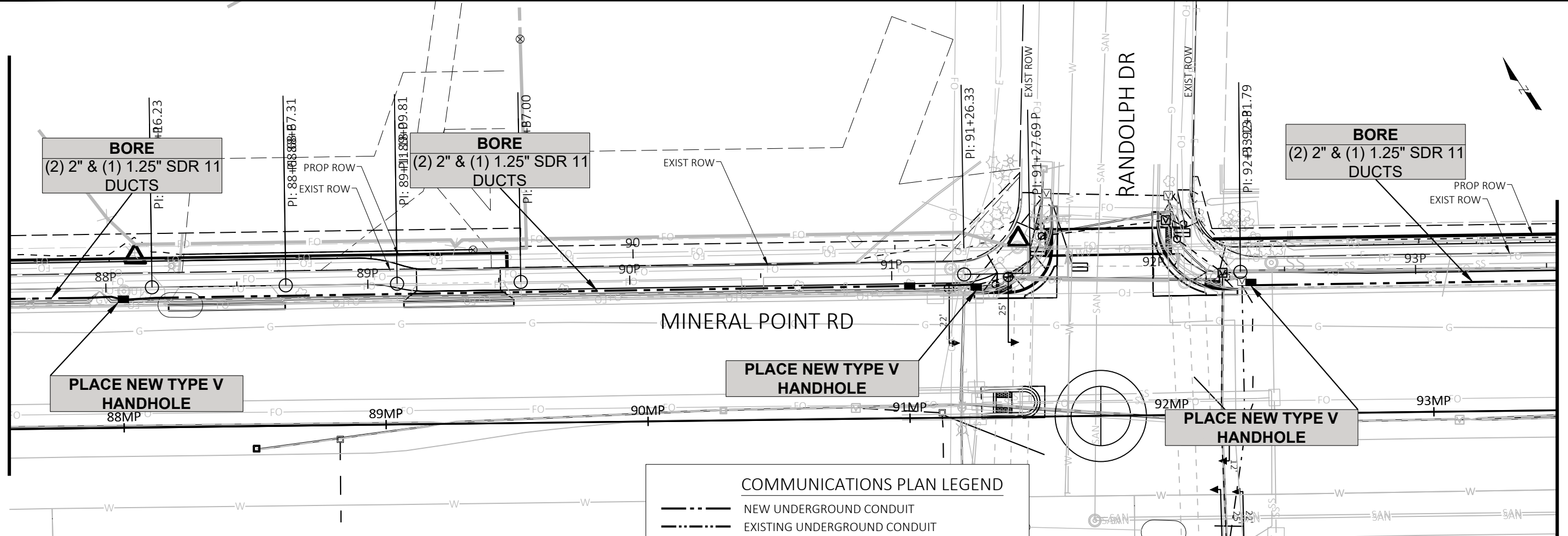
COMMUNICATIONS PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
**CITY OF MADISON**



60631225P  
 CP-03



MATCHLINE 87+56MP



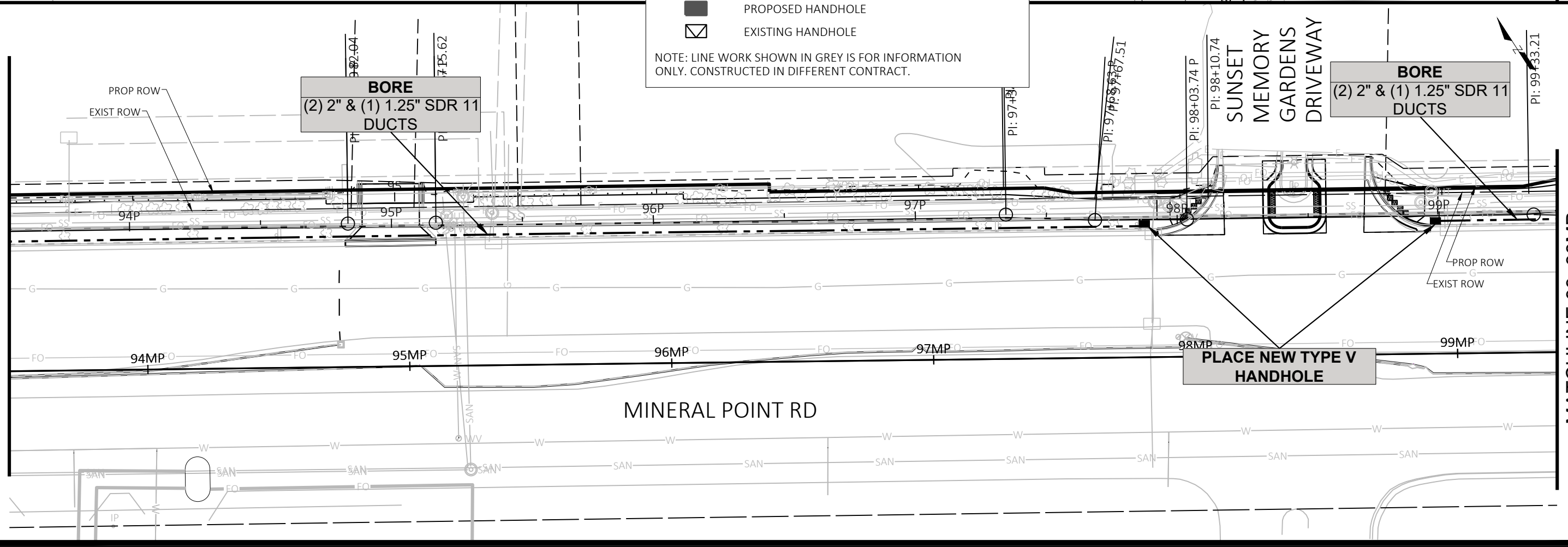
MATCHLINE 93+47MP

**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MATCHLINE 93+47MP



MATCHLINE 99+38MP

MARK	REVISION	DATE	BY

Scale: 1"=40 FT  
60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



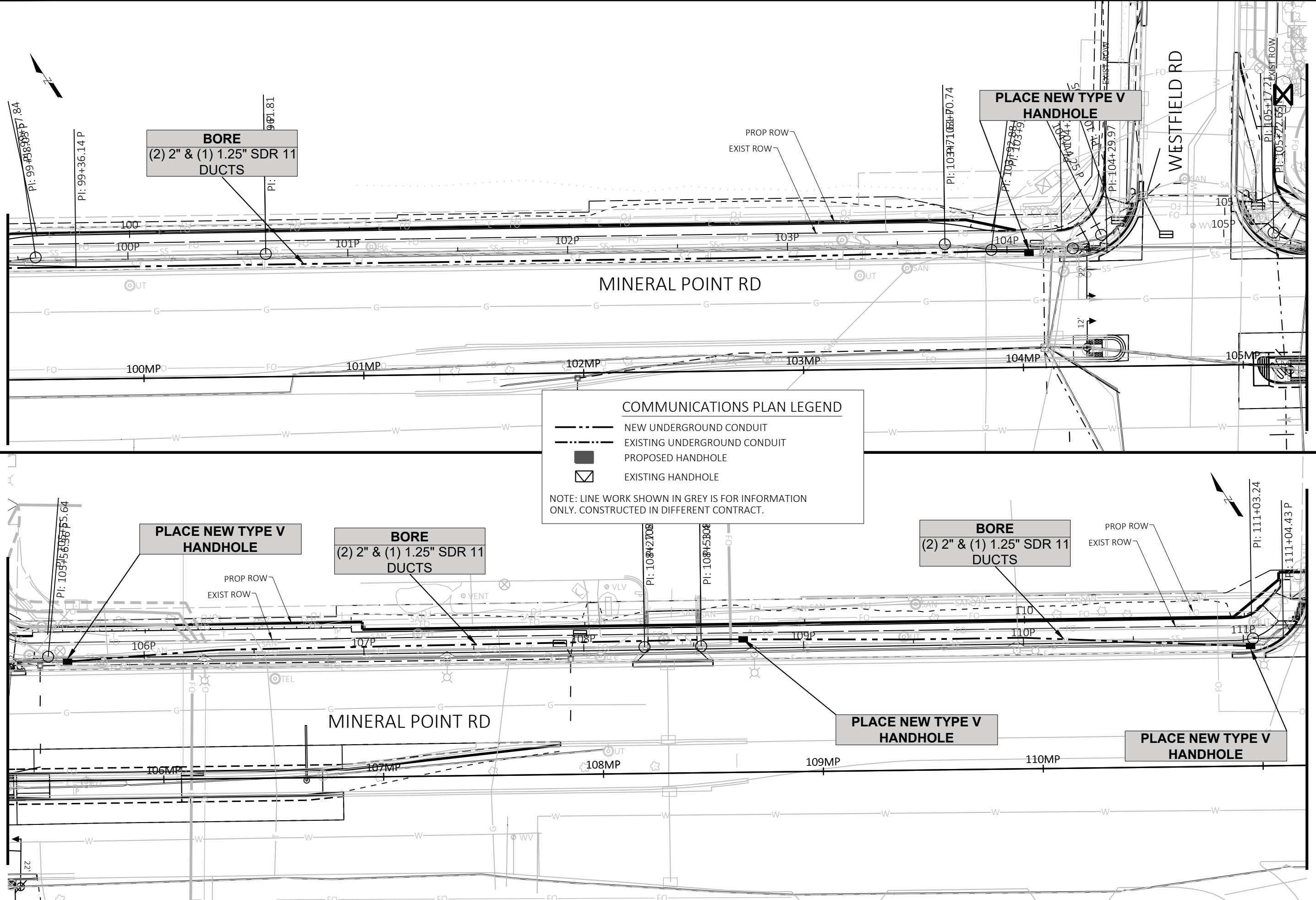
60631225P  
CP-04

MATCHLINE 99+38MP

MATCHLINE 105+29MP

MATCHLINE 105+29MP

MATCHLINE 111+20MP



**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**PLACE NEW TYPE V  
HANDHOLE**

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11  
DUCTS

**PLACE NEW TYPE V  
HANDHOLE**

**PLACE NEW TYPE V  
HANDHOLE**

MARK	REVISION	DATE	BY
Scale: 1"=40 FT			

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

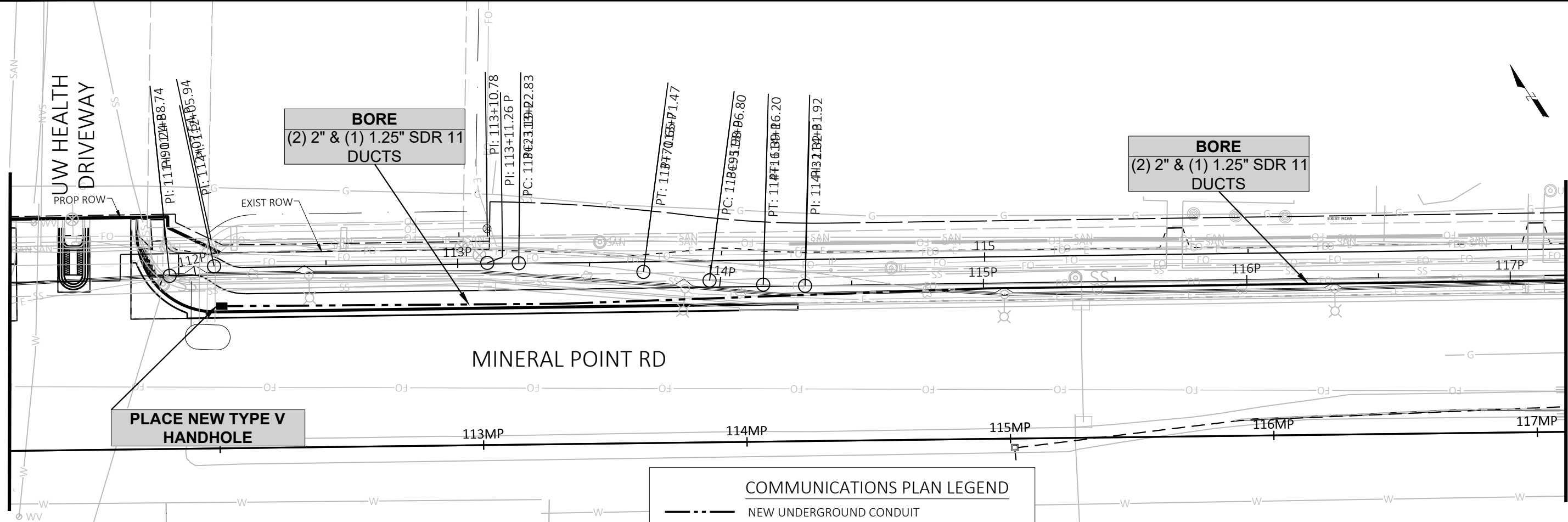
COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



60631225P  
CP-05

MATCHLINE 111+20MP

MATCHLINE 117+11MP



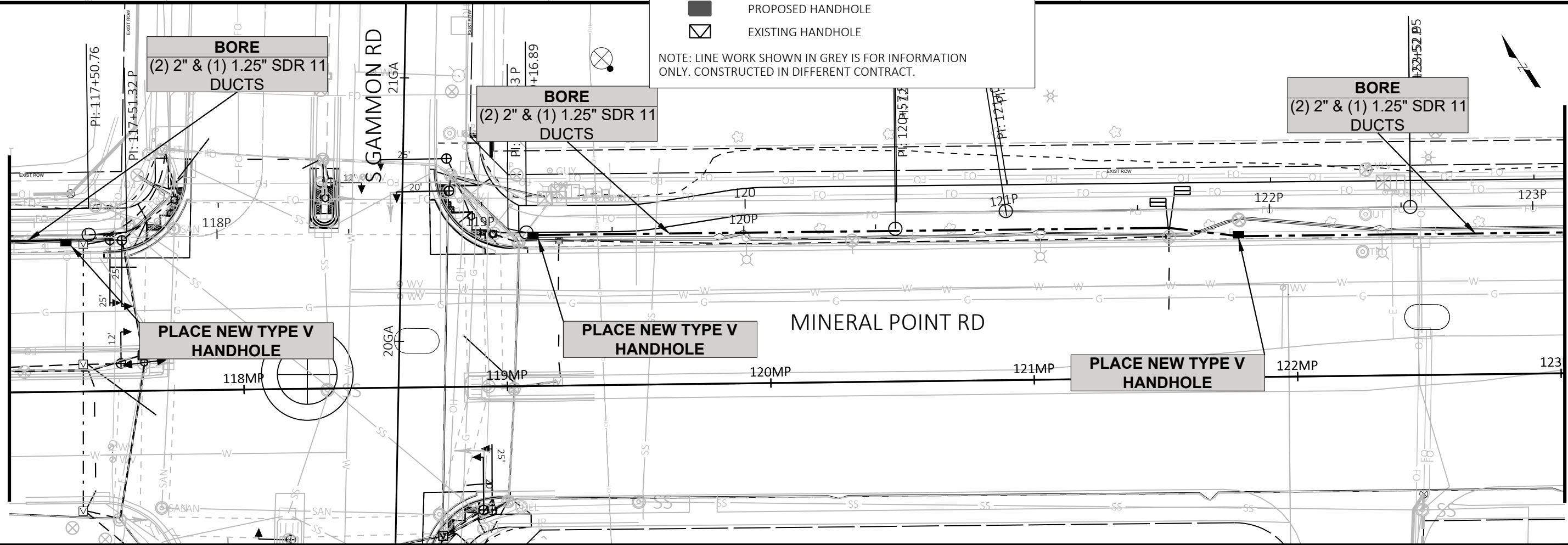
**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MATCHLINE 117+11MP

MATCHLINE 123+02MP



MARK	REVISION	DATE	BY

Scale: 1"=40 FT

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON

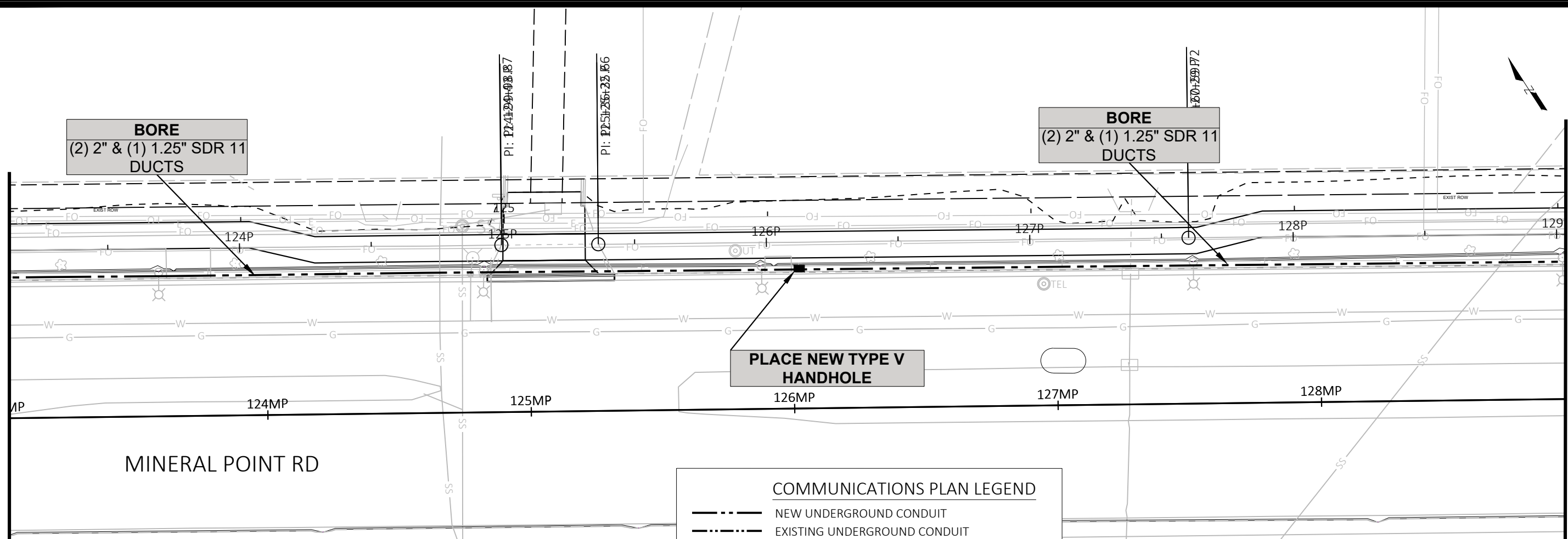


60631225P  
 CP-06



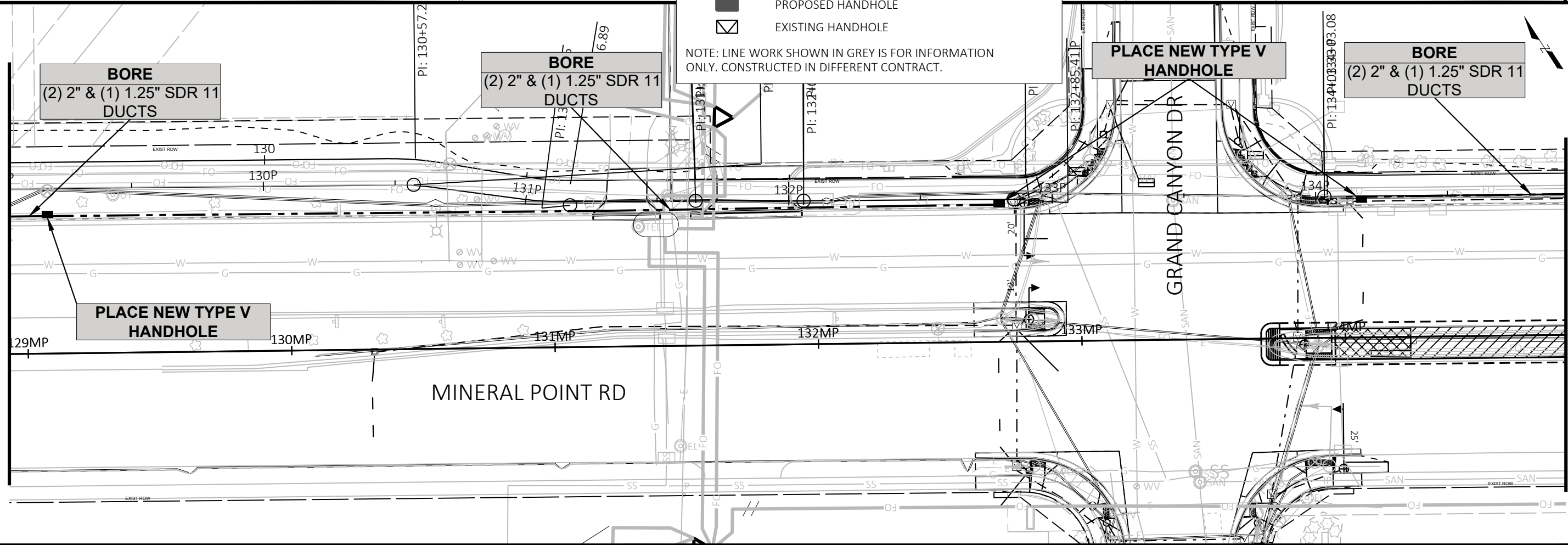
MATCHLINE 123+02MP

MATCHLINE 128+93MP



MATCHLINE 128+93MP

MATCHLINE 134+84MP



**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY

Scale: 1"=40 FT  
60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



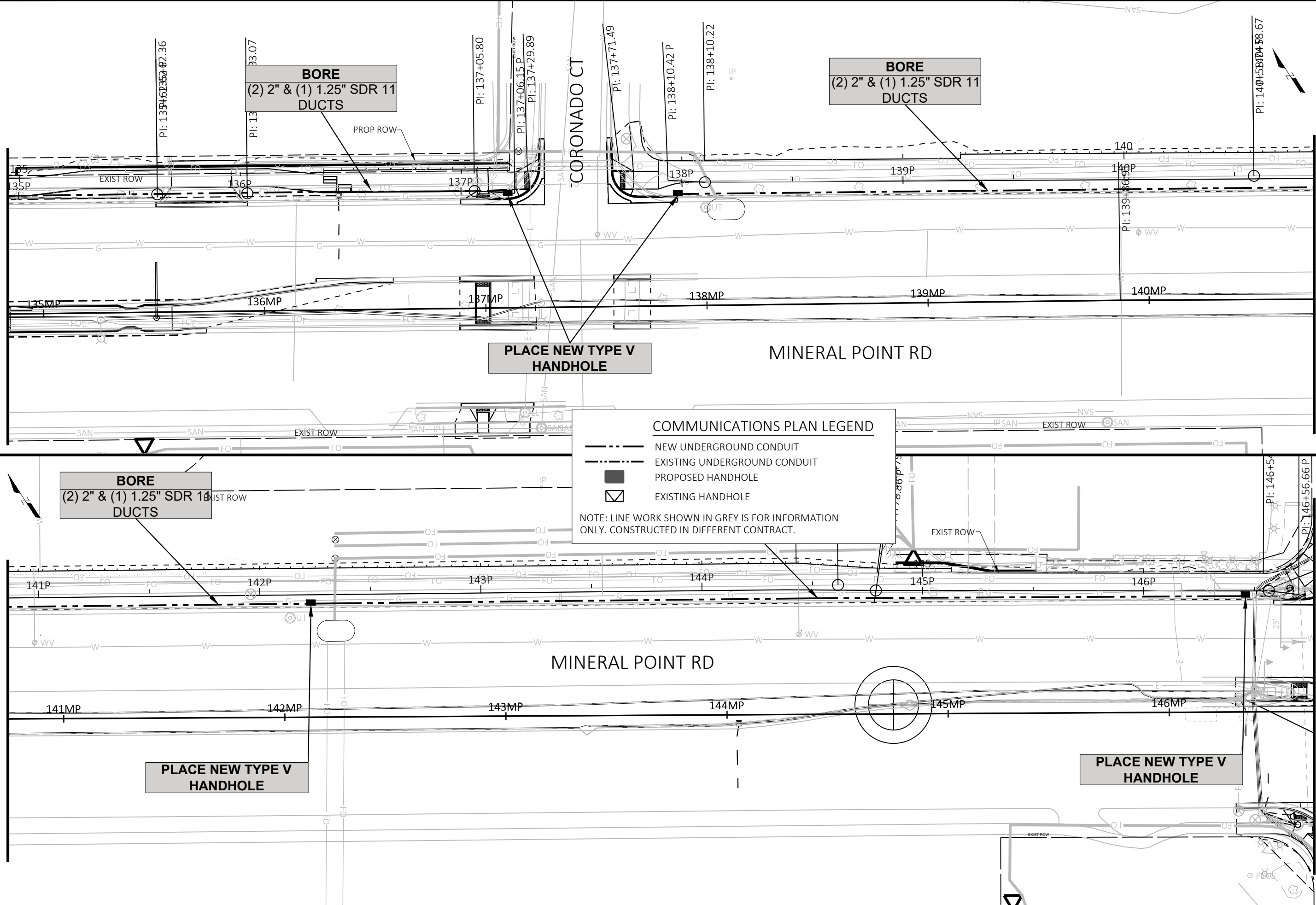
60631225P  
CP-07

MATCHLINE 134+84MP

MATCHLINE 140+75MP

MATCHLINE 140+75MP

MATCHLINE 146+66MP



**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- - - EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- ⊠ EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

**BORE**  
(2) 2" & (1) 1.25" SDR 11 DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11 DUCTS

**BORE**  
(2) 2" & (1) 1.25" SDR 11 DUCTS

**PLACE NEW TYPE V HANDHOLE**

**PLACE NEW TYPE V HANDHOLE**

**PLACE NEW TYPE V HANDHOLE**

MARK	REVISION	DATE	BY

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON



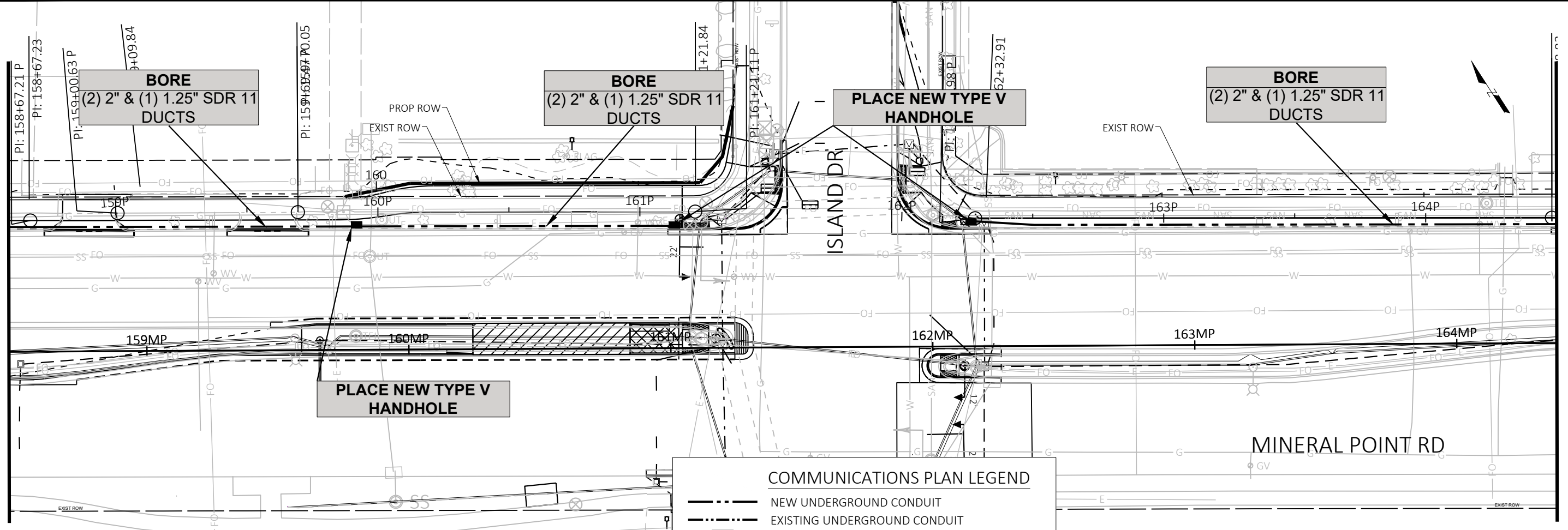
60631225P  
 CP-08

Scale: 1"=40 FT





MATCHLINE 158+48MP



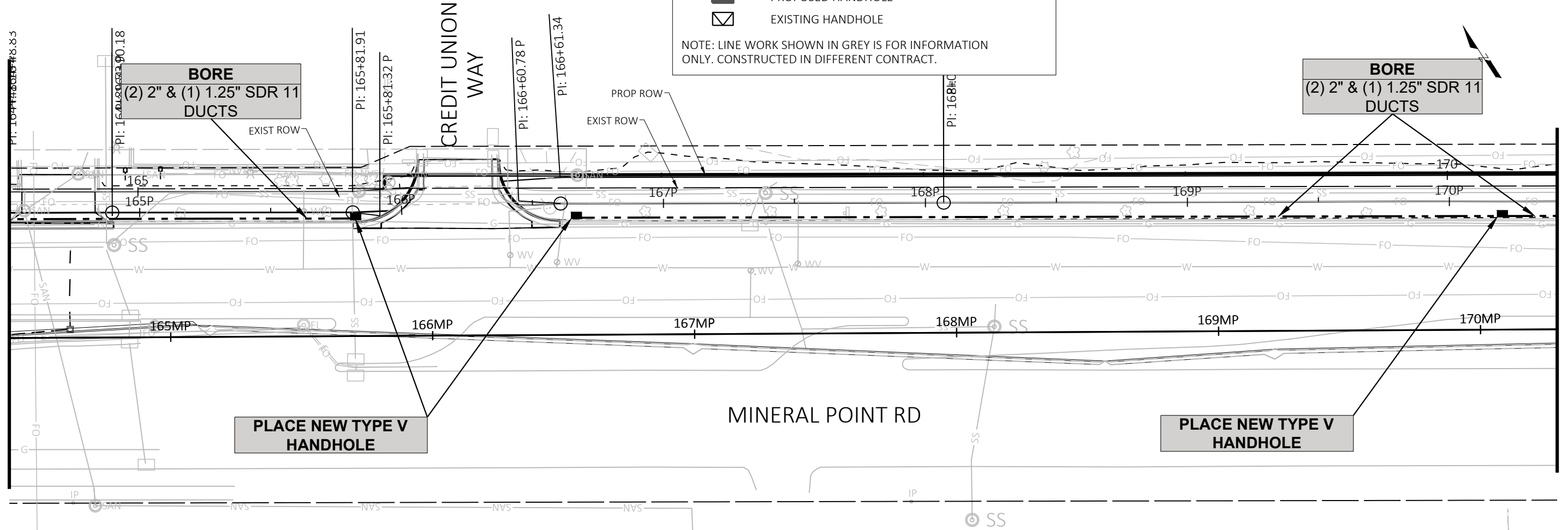
MATCHLINE 158+89MP

**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MATCHLINE 164+39MP



MATCHLINE 170+30MP

MARK	REVISION	DATE	BY

Scale: 1"=40' FT

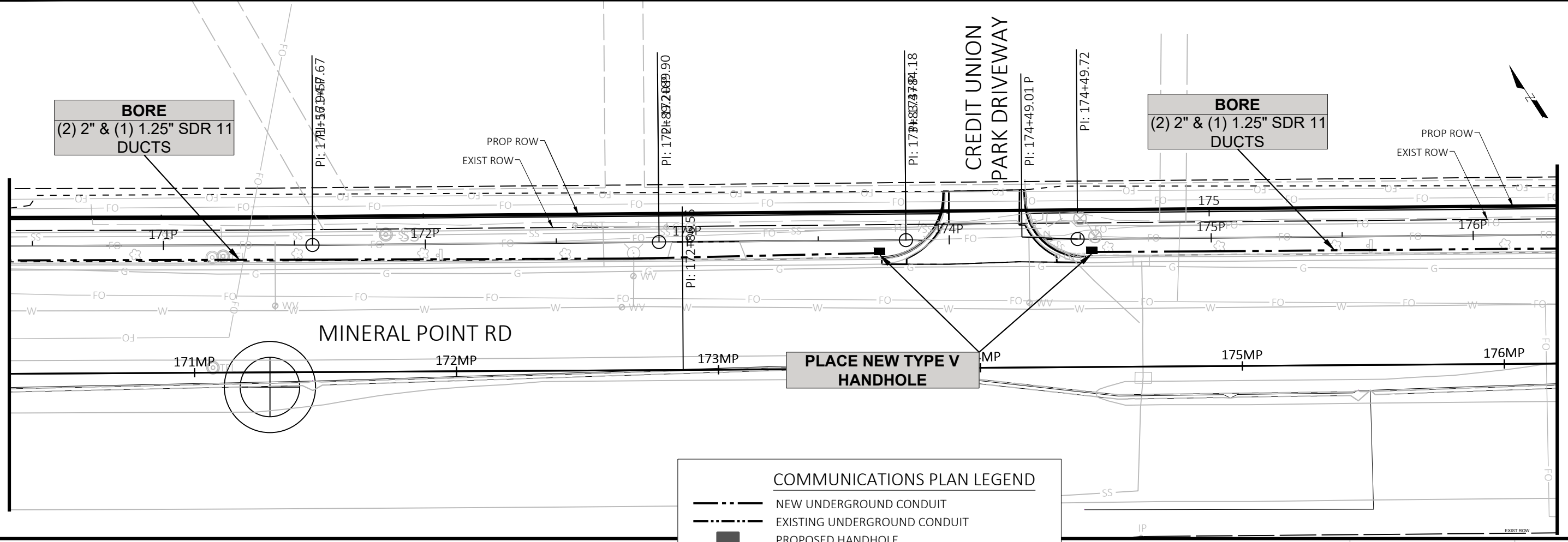
60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C

COMMUNICATIONS PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON



MATCHLINE 170+30MP

MATCHLINE 176+21MP



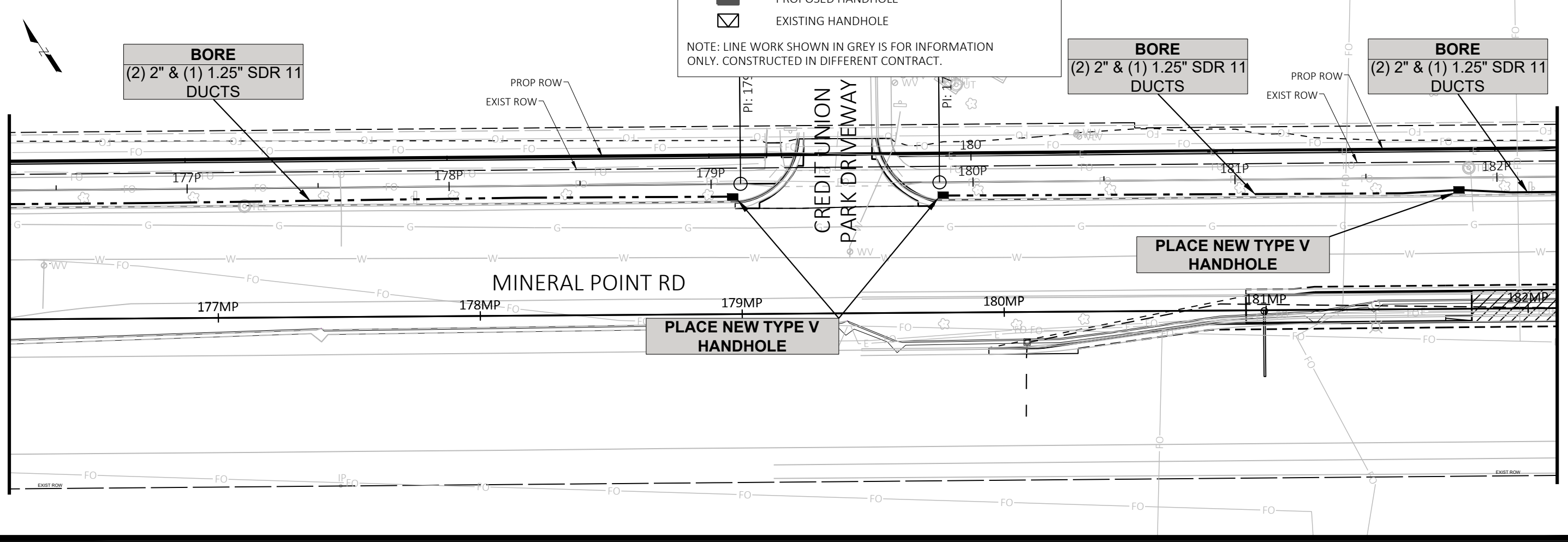
**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MATCHLINE 176+21MP

MATCHLINE 182+12MP



MARK	REVISION	DATE	BY

Scale: 1"=40 FT  
60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

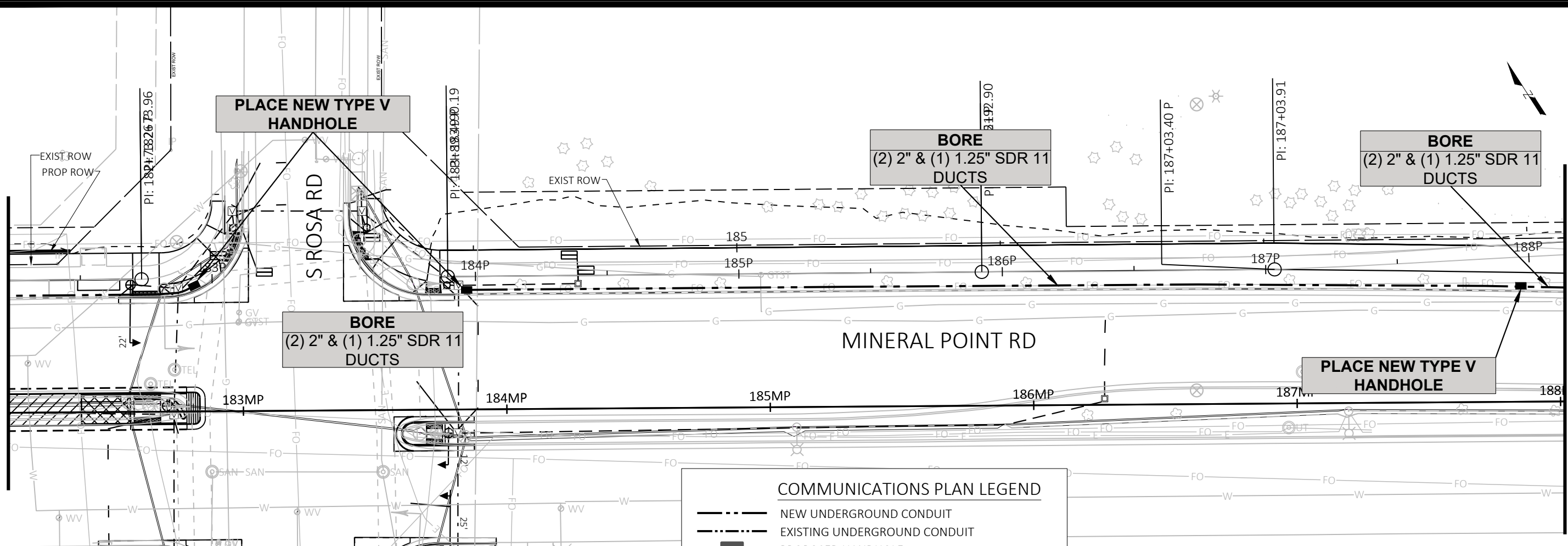
COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



60631225P  
CP-11

MATCHLINE 182+12MP

MATCHLINE 188+03MP



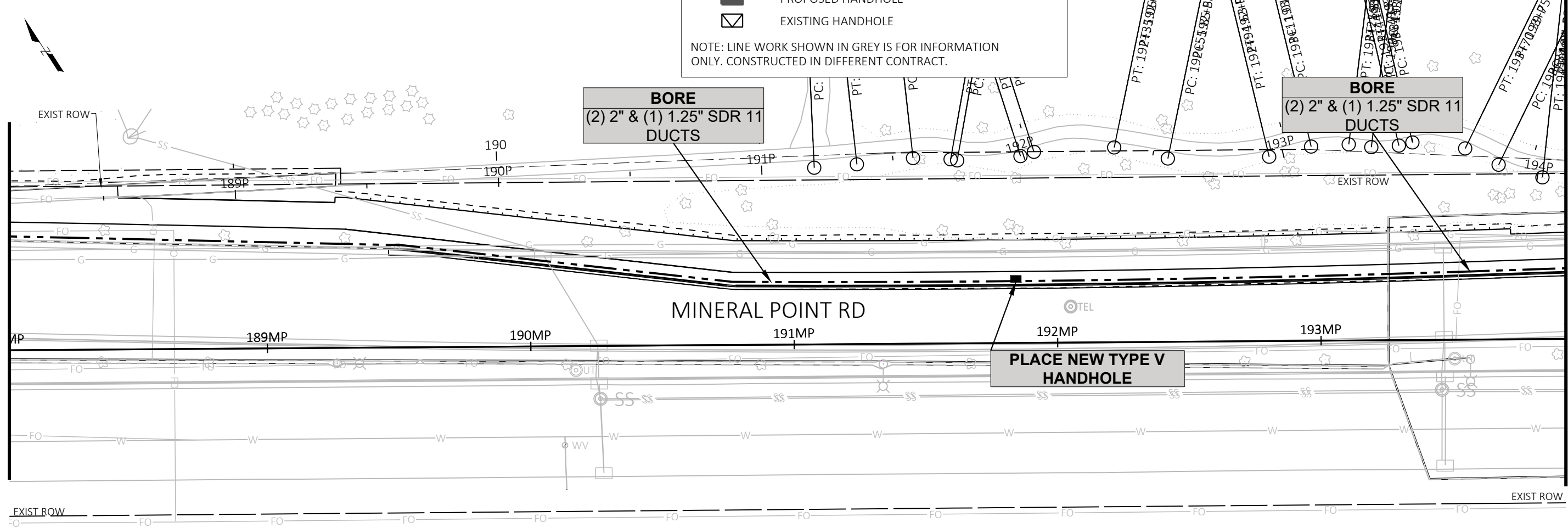
**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MATCHLINE 188+03MP

MATCHLINE 193+94MP



MARK	REVISION	DATE	BY

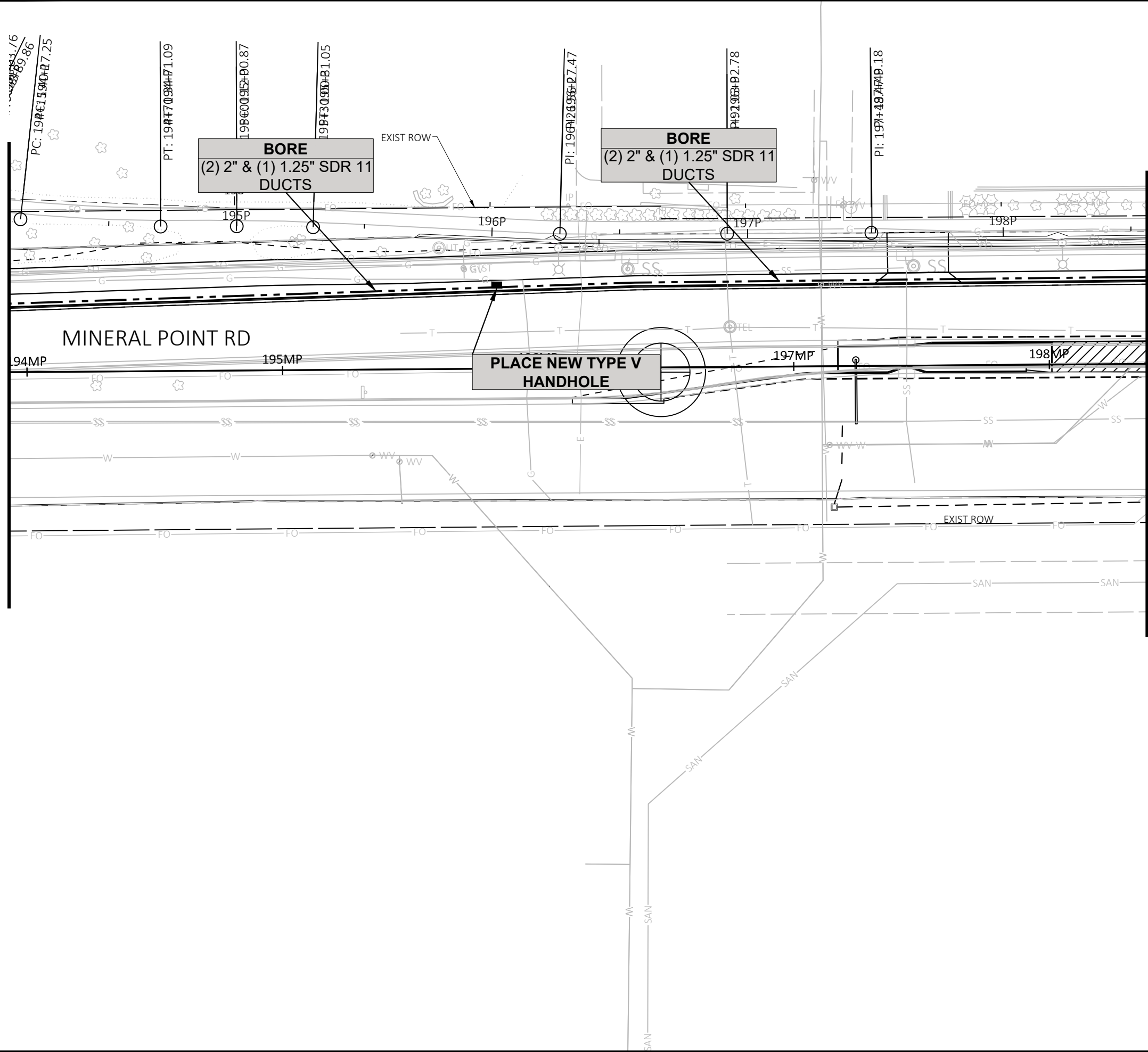
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60631225P

60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

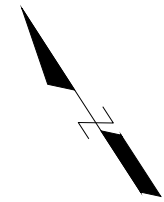
COMMUNICATIONS PLAN  
MINERAL POINT ROAD WIDENED SIDEWALK  
CITY OF MADISON



MATCHLINE 193+94MP



MATCHLINE 198+38MP



**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.

MARK	REVISION	DATE	BY

Scale: 1"=40 FT  
60631225P

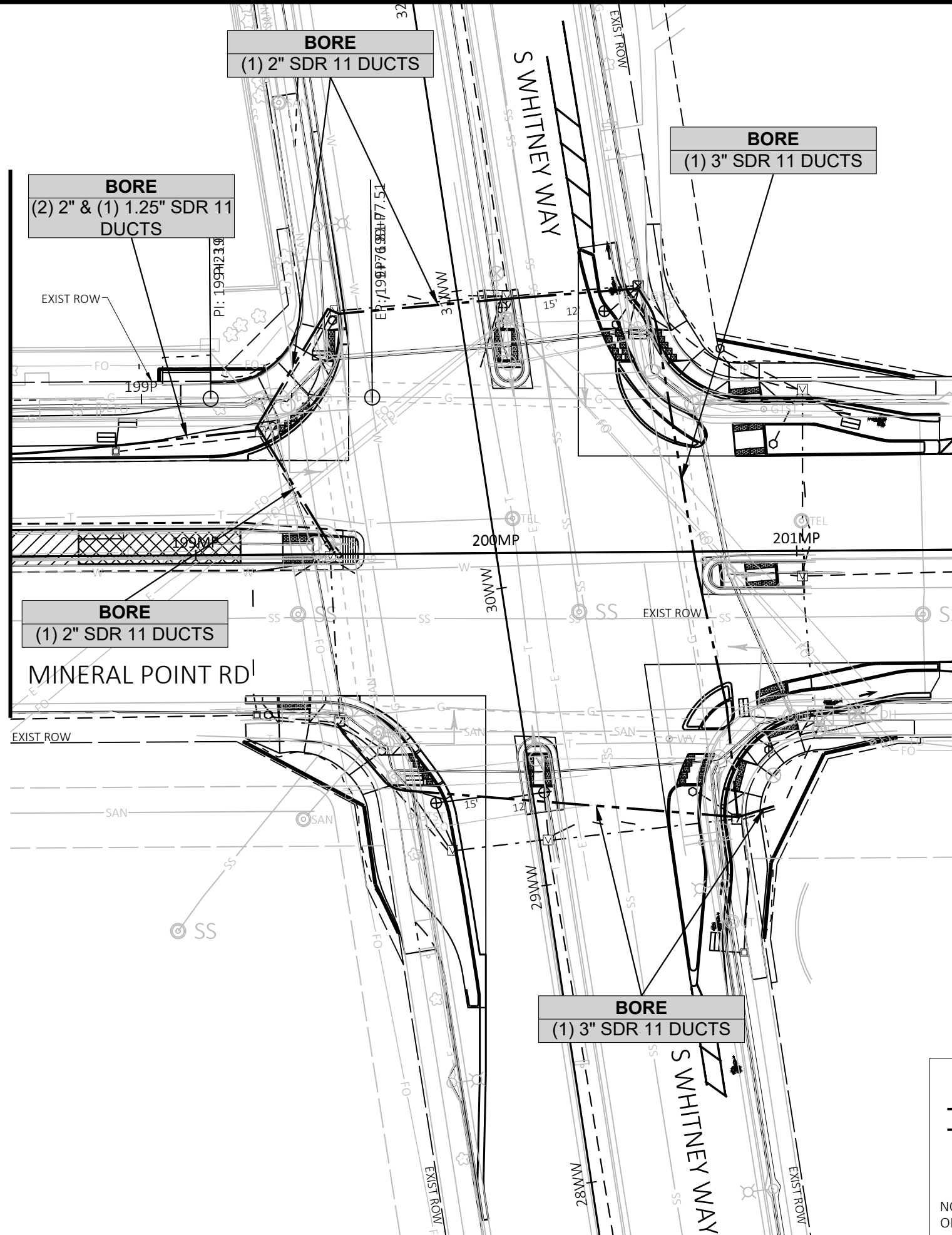
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 COMMUNICATIONS PLAN  
 MINERAL POINT ROAD WIDENED SIDEWALK  
 CITY OF MADISON  
 CONTRACT NO: 60631225C



60631225P  
 CP-13



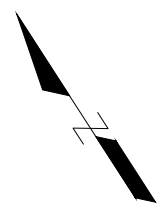
MATCHLINE 198+38MP



**COMMUNICATIONS PLAN LEGEND**

- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

NOTE: LINE WORK SHOWN IN GREY IS FOR INFORMATION ONLY. CONSTRUCTED IN DIFFERENT CONTRACT.



	COMMUNICATIONS PLAN MINERAL POINT ROAD WIDENED SIDEWALK <b>CITY OF MADISON</b>	60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C	60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C	60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C
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# MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT AN ACCEPTABLE TRAFFIC CONTROL PLAN, INCLUDING ALL NECESSARY PHASES, TO TOM MOHR AT TMOHR@CITYOFMADISON.COM OR (608) 267-8725 AND CHAD VEINOT AT CVEINOT@CITYOFMADISON.COM OR (608) 267-1960 PRIOR TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY TOM MOHR OF CITY TRAFFIC ENGINEERING AT (608) 267-8725 AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY LANE CLOSURE. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS PROVIDED.
3. ALL WORK SHALL CONFORM TO PART VI OF FHWA'S LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION'S STANDARD DETAIL DRAWINGS SERIES 15 AND THE CITY OF MADISON STANDARDS FOR SIDEWALK AND BIKEWAY CLOSURES.
4. THE MAINTENANCE OF TRAFFIC PLANS ARE INTENDED TO SERVE AS A GUIDE TO THE CONTRACTOR. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNAGE AND DEVICES SHALL BE ADJUSTED TO FIT CURRENT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER WITHOUT IMPACTING THE SAFETY OF VEHICLES, BICYCLISTS, PEDESTRIANS AND WORKERS. WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, TRAFFIC SIGNALS, LIGHTING, PAVEMENT MARKINGS, AND OTHER APPURTENANCES OF ROADWAYS WITHIN THE LIMITS OF THE CONTRACT.
5. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY REQUESTS FOR CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGEMENT TEAM AT LEAST 72 HOURS PRIOR TO AN ACTUAL TRAFFIC CONTROL CHANGE. A REQUEST DOES NOT CONSTITUTE APPROVAL.
6. ALL EXISTING SIGNS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE COVERED OR REMOVED AFTER APPROVAL FROM THE CITY TRAFFIC ENGINEER. THIS WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY. ALL TEMPORARY SIGNS SHALL MEET CITY OF MADISON STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
7. ALL SIGN ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 3 AND SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
8. SIGN PLACEMENT SHOULD CONFORM TO THE FOLLOWING GUIDELINES WHEREVER POSSIBLE: (A) TEMPORARY SIGNS OR SIGNS MOUNTED ON BARRICADES A MINIMUM OF 2 FEET FROM THE ADJACENT TRAVEL LANE AND A MINIMUM OF 2 FEET ABOVE THE PAVEMENT ELEVATION. (B) POST-MOUNTED SIGNS A MINIMUM OF 2 FEET FROM THE EDGE OF SHOULDER OR FACE OF CURB AND A MINIMUM OF 7 FEET ABOVE THE PAVEMENT. (C) SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS AT A MINIMUM OF 5' ABOVE THE PAVEMENT.
9. ALL SIGNS SHOWN ON THE TRAFFIC CONTROL PLANS ARE 48"x48" UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL PLAN STAGING OPERATIONS. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE PERFORMED AT NO COST TO THE CITY PER STANDARD SPECIFICATIONS.
11. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES AND ADJACENT PROPERTY FROM DEBRIS BLOWN OR OTHERWISE REMOVED FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE TRAVELED LANE SURFACES. THIS WORK SHALL BE INCLUDED IN THE COST OF THE "643.5000 TRAFFIC CONTROL" PAY ITEM.
12. THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. THESE VEHICLES SHALL ENTER AND LEAVE WORK AREAS IN A MANNER THAT WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC.
13. ALL CONTRACTOR SUPPLIED TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE IN GOOD CONDITION AND SHALL BE SUBJECT TO APPROVAL OF THE CITY TRAFFIC ENGINEER.
14. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS ADJACENT TO WORK AREAS TO ASSESS NEEDS FOR ACCESS AND SHALL PROVIDE MEANS FOR PARKING ACCESS, UTILITY ACCESS, EMERGENCY ACCESS AND PEDESTRIAN ACCESS AS NECESSARY.
15. ALL CURBSIDE WORK IS TO BE COORDINATED WITH ADJACENT BUSINESSES. PROVIDE A MINIMUM OF 48 HOUR NOTICE PRIOR TO WORKING IN FRONT OF ANY BUSINESS.
16. PEDESTRIAN ACCESS TO ALL BUSINESSES, BUS STOPS, AND ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO STAGE WORK SUCH THAT EXISTING ADJACENT CROSSWALKS ARE NEVER CLOSED AT THE SAME TIME.
17. INSTALL TEMPORARY RAMPS FOR USE BY PEDESTRIANS WHEN REPLACING EXISTING RAMPS. TEMPORARY RAMPS SHALL BE PAID FOR SEPARATELY DEPENDENT ON THE TYPE OF MATERIAL USED, I.E. ASPHALT, PLYWOOD, PLATE, ETC.
18. THE CONTRACTOR IS RESPONSIBLE FOR ANY LANDSCAPING RESTORATION IN DAMAGE RESULTING FROM THE PLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES OR EQUIPMENT, INCLUDING OUTSIDE THE CONSTRUCTION LIMITS.
19. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE CITY TRAFFIC ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE CITY TRAFFIC ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE "643.5000 TRAFFIC CONTROL" PAY ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
20. THE CONTRACTOR IS DIRECTED TO THE FACT THAT OTHER SEPARATE CONTRACTS ARE, OR MAY BE, IN FORCE THAT INTERSECT THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS IN THE PHASING AND PERFORMANCE OF THIS WORK SO AS NOT TO DELAY, INTERRUPT, OR HINDER THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY OTHER CONTRACTORS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS, NOR FOR ANY DELAYS OR INCONVENIENCES RESULTING FROM ACTIVITIES OF OTHER CONTRACTORS. SHOULD A CONFLICT ARISE BETWEEN CONTRACTORS WITH RESPECT TO SEQUENCE OF CONSTRUCTION OR MAINTENANCE OF TRAFFIC REQUIREMENTS. SAID CONFLICTS SHALL BE RESOLVED BY, OR AT THE DIRECTION OF, THE CITY TRAFFIC ENGINEER. REFER TO PROJECT SPECIFICATIONS FOR A LIST OF ADJACENT CONCURRENT CONTRACTS.
21. WHERE REQUIRED, TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO DRUMS, BARRICADES, AND VERTICAL PANELS IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS. TYPE A WARNING LIGHTS SHALL BE INSTALLED ON ALL BARRICADES USED IN THE PROJECT PER STATE OF WISCONSIN SDD 15C2-B. CONTRACTOR SHALL ALSO PLACE TYPE C WARNING LIGHTS ON ANY BARRELS USED TO TAPER TRAFFIC OR LANE CLOSURES. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY. CLEANING SHALL BE CONSIDERED INCIDENTAL TO THE "643.5000 TRAFFIC CONTROL" PAY ITEM.
22. NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS THE ADJOINING BUSINESSES AND RESIDENTIAL AREAS.
23. WHEN LANES CLOSURES ARE EXPECTED TO EXTEND INTO DARKNESS, TYPE II BARRICADES WITH STEADY-BURNING TYPE C LIGHTS SHALL BE SUBSTITUTED FOR CONES.
24. THE ADJACENT LANE SHALL BE CLOSED WHEN WORK IS PERFORMED OR ANY PERSON, EQUIPMENT, OR MATERIAL IS WITHIN 2 FEET FROM THE EDGE OF AN ACTIVE TRAVELED LANE.
25. ALL TRAFFIC LANES SHALL BE 11' WIDE UNLESS OTHERWISE NOTED ON PLANS OR APPROVED BY THE CITY OF MADISON TRAFFIC ENGINEER.
26. STAGED CONSTRUCTION OPERATIONS MAY IMPACT EXISTING METRO TRANSIT BUS STOP LOCATIONS. CONTRACTOR TO COORDINATE WITH METRO TRANSIT AND THE CITY OF MADISON TRAFFIC ENGINEER FOR BUS STOP RELOCATIONS AND SIGNAGE REQUIREMENTS AS NECESSARY. REFER TO PROJECT SPECIFICATIONS FOR CONTACT INFORMATION.
27. THE PROPOSED TRAFFIC CONTROL STAGING CONFIGURATIONS MAY RESTRICT EXISTING BICYCLE FACILITIES AND ON-STREET PARKING IN THE AREAS IMMEDIATELY ADJACENT TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COORDINATE APPLICABLE SIGNAGE REQUIREMENTS WITH THE CITY OF MADISON TRAFFIC ENGINEER PRIOR TO SETTING UP HIS/HER TRAFFIC CONTROL.
28. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MADISON TRAFFIC ENGINEER FOR UPDATING TRAFFIC SIGNAL TIMING AT IMPACTED INTERSECTIONS DURING CONSTRUCTION OPERATIONS AS REQUIRED. REFER TO THE TEMPORARY TRAFFIC SIGNAL PLANS INCLUDED IN THIS PLAN SET AND THE TEMPORARY TRAFFIC SIGNAL PLANS INCLUDED IN THE MAIN BRT PLAN SET #3, WHICH CAN BE DOWNLOADED HERE: <https://www.cityofmadison.com/business/pw/contracts/docAndSpecs.cfm?ContractNumber=8716>
29. UTILIZE THE FOLLOWING TAPER LENGTH CRITERIA PER WISDOT FDM 11-25 ATTACHMENT 2.3:  
 FOR LANE CLOSURE:  
 DESIRABLE:  $L = W \times (S + 5)$   
 MINIMUM:  $L = W \times S$   
 FOR LANE SHIFTING:  
 DESIRABLE:  $L = (W \times (S + 5)) / 60$   
 MINIMUM:  $L = (W \times S) / 60$   
 WHERE:  
 L = TAPER LENGTH IN FEET  
 S = POSTED SPEED LIMIT (MPH)  
 W = WIDTH OF OFFSET IN FEET
30. AT INTERSECTIONS WHERE MULTIPLE IMPROVEMENTS ARE SCHEDULED IN OPPOSITE TRAFFIC DIRECTIONS THE CONTRACTOR SHALL STAGE HIS/HER OPERATIONS SUCH THAT WORK IS NOT CONCURRENT AND EXISTING TRAFFIC CONFIGURATIONS ARE MAINTAINED IN ONE DIRECTION.

MARK	REVISION	DATE	BY
60631225P	60631225P	2022-07-29	
Designed By: TSI			Scale: 1 IN=40 FT

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C  
 MAINTENANCE OF TRAFFIC: STAGING NOTES  
 BUS RAPID TRANSIT  
 CITY OF MADISON



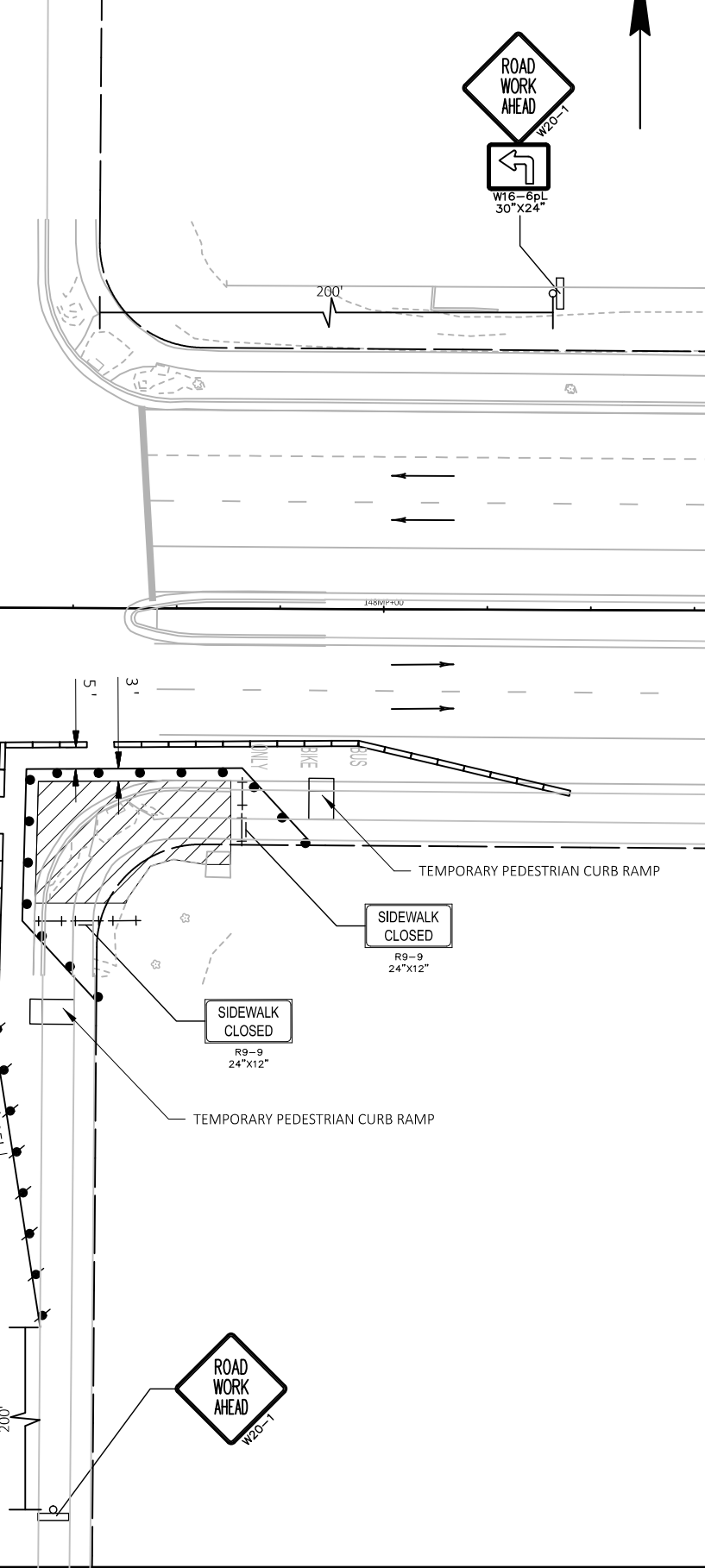
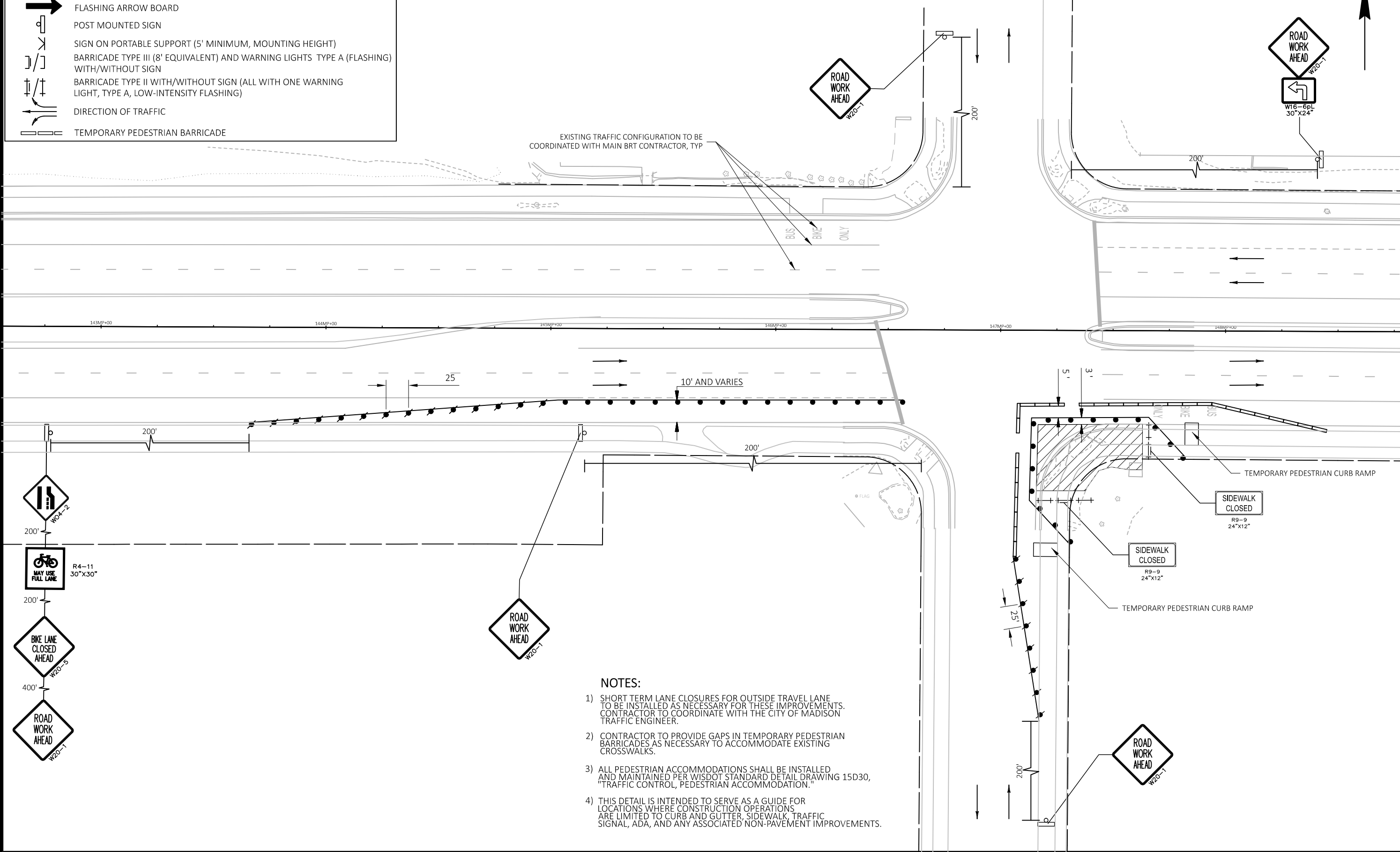
60631225P  
TC-01



**TRAFFIC CONTROL LEGEND**

	WORK AREA
	COMPLETED WORK (PREVIOUS STAGE)
	DRUMS WITH/WITHOUT WARNING LIGHTS TYPE C
	FLASHING ARROW BOARD
	POST MOUNTED SIGN
	SIGN ON PORTABLE SUPPORT (5' MINIMUM, MOUNTING HEIGHT)
	BARRICADE TYPE III (8' EQUIVALENT) AND WARNING LIGHTS TYPE A (FLASHING) WITH/WITHOUT SIGN
	BARRICADE TYPE II WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
	DIRECTION OF TRAFFIC
	TEMPORARY PEDESTRIAN BARRICADE

**INTERSECTION CORNER WORK ZONE STANDARD DETAIL**



ROAD WORK AHEAD  
W20-1

ROAD WORK AHEAD  
W20-2

R4-11  
MAY USE FULL LANE  
30"X30"

BIKE LANE CLOSED AHEAD  
W20-5

ROAD WORK AHEAD  
W20-1

ROAD WORK AHEAD  
W20-1

W16-6pL  
30"X24"

ROAD WORK AHEAD  
W20-1

SIDEWALK CLOSED  
R9-9  
24"X12"

SIDEWALK CLOSED  
R9-9  
24"X12"

**NOTES:**

- 1) SHORT TERM LANE CLOSURES FOR OUTSIDE TRAVEL LANE TO BE INSTALLED AS NECESSARY FOR THESE IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH THE CITY OF MADISON TRAFFIC ENGINEER.
- 2) CONTRACTOR TO PROVIDE GAPS IN TEMPORARY PEDESTRIAN BARRICADES AS NECESSARY TO ACCOMMODATE EXISTING CROSSWALKS.
- 3) ALL PEDESTRIAN ACCOMMODATIONS SHALL BE INSTALLED AND MAINTAINED PER WISDOT STANDARD DETAIL DRAWING 15D30, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION."
- 4) THIS DETAIL IS INTENDED TO SERVE AS A GUIDE FOR LOCATIONS WHERE CONSTRUCTION OPERATIONS ARE LIMITED TO CURB AND GUTTER, SIDEWALK, TRAFFIC SIGNAL, ADA, AND ANY ASSOCIATED NON-PAVEMENT IMPROVEMENTS.

EXISTING TRAFFIC CONFIGURATION TO BE COORDINATED WITH MAIN BRT CONTRACTOR, TYP

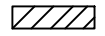



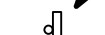
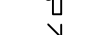
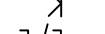
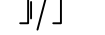
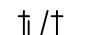
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60631225P	2022-07-29	2022-07-29	TSI
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60631225P  
CITY OF MADISON, DANE COUNTY, WI  
CONTRACT NO: 60631225C

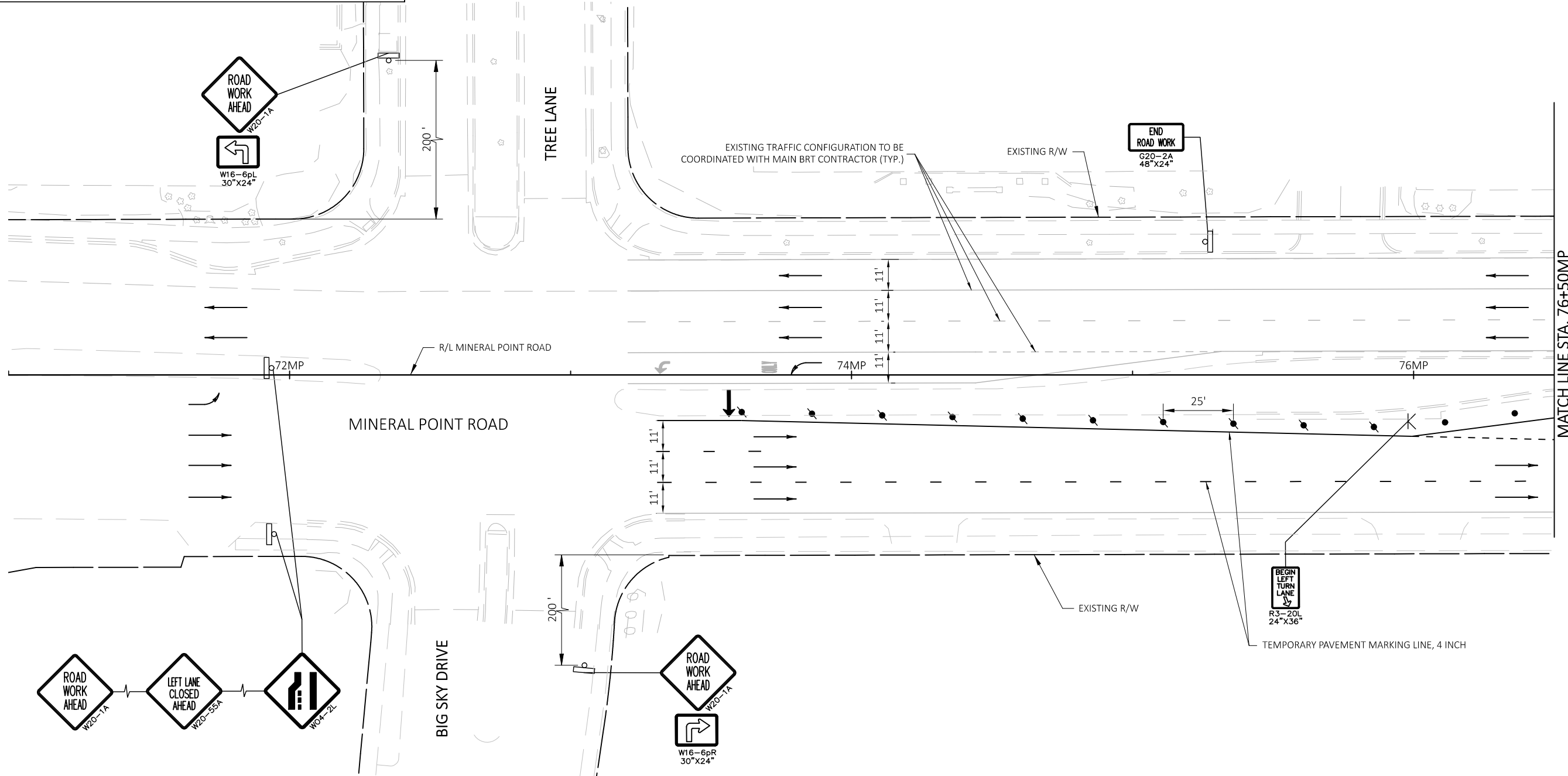


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TC-02

**TRAFFIC CONTROL LEGEND**

-  WORK AREA
-  COMPLETED WORK (PREVIOUS STAGE)
-  DRUMS WITH/WITHOUT WARNING LIGHT, TYPE C
-  FLASHING ARROW BOARD
-  POST MOUNTED SIGN
-  SIGN ON PORTABLE SUPPORT (5' MINIMUM, MOUNTING HEIGHT)
-  BARRICADE TYPE III (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH/WITHOUT SIGN
-  BARRICADE TYPE II WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
-  DIRECTION OF TRAFFIC

**MEDIAN NOSE IMPROVEMENTS WORK ZONE  
STANDARD DETAIL - MINERAL POINT ROAD**



- NOTES:**
- 1) SIGN PLACEMENT AND LANE TAPERS ARE SHOWN FOR REFERENCE ONLY. THE EXACT NUMBER, LOCATION AND SPACING OF SIGNAGE AND TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT CURRENT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. REFER TO SHEET TC-2 FOR DESIRABLE TAPER LENGTHS AND SIGNAGE SPACING.
  - 2) CONTRACTOR TO STAGE WORK SUCH THAT CONSTRUCTION OPERATIONS FOR THE WIDENED SIDEWALK ON THE NORTH SIDE OF MINERAL POINT ROAD ARE NOT BEING PERFORMED CONCURRENT WITH MEDIAN NOSE IMPROVEMENTS

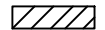





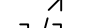
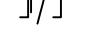
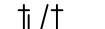
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 MAINTENANCE OF TRAFFIC - MEDIAN NOSE IMPROVEMENTS  
 CITY OF MADISON, DANE COUNTY, WI  
 BUS RAPID TRANSIT  
 CITY OF MADISON  
 CONTRACT NO: 60631225C

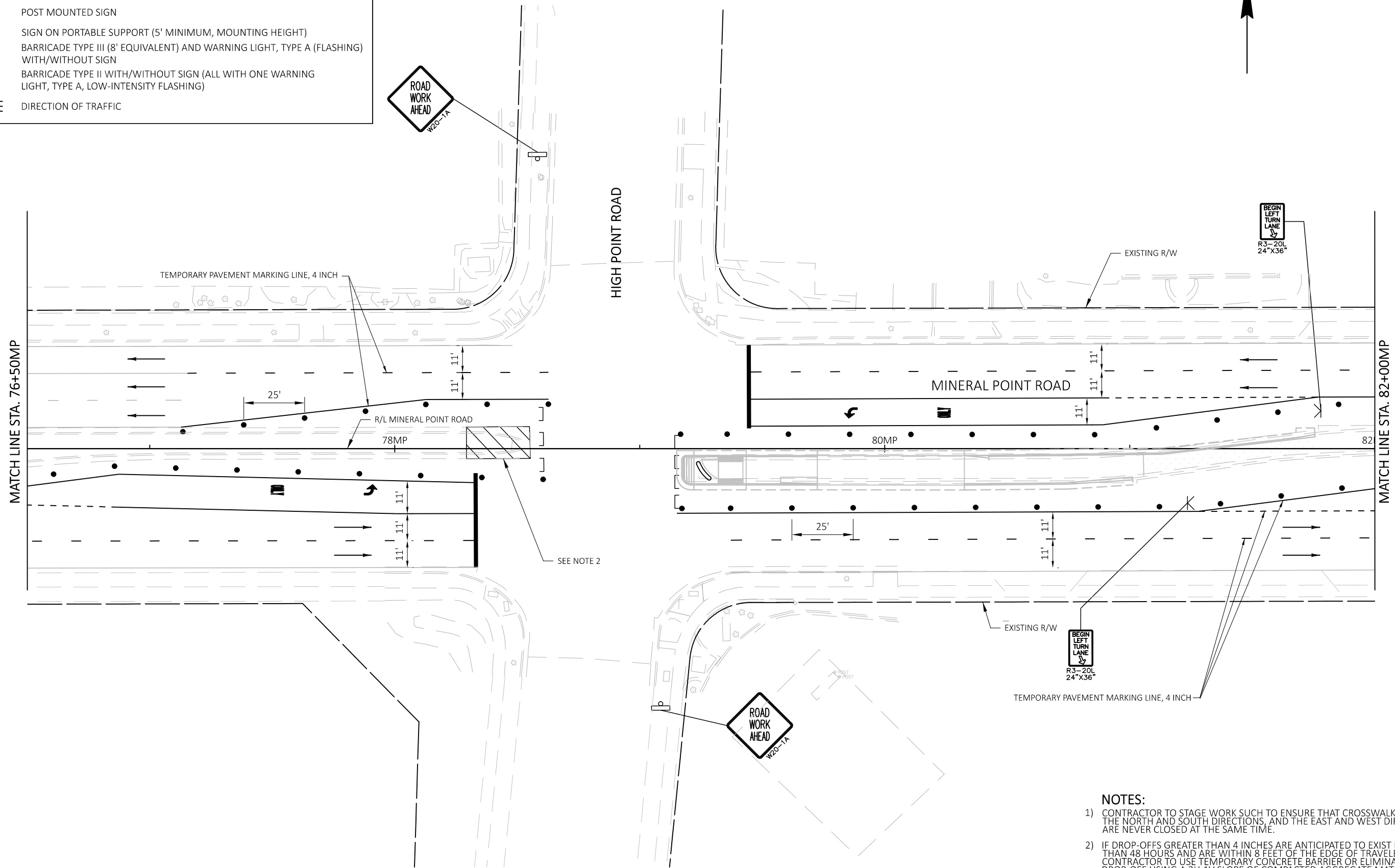


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 TC-03

**TRAFFIC CONTROL LEGEND**

-  WORK AREA
-  COMPLETED WORK (PREVIOUS STAGE)
-  DRUMS WITH/WITHOUT WARNING LIGHT, TYPE C
-  FLASHING ARROW BOARD
-  POST MOUNTED SIGN
-  SIGN ON PORTABLE SUPPORT (5' MINIMUM, MOUNTING HEIGHT)
-  BARRICADE TYPE III (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH/WITHOUT SIGN
-  BARRICADE TYPE II WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
-  DIRECTION OF TRAFFIC

**MEDIAN NOSE IMPROVEMENTS WORK ZONE  
STANDARD DETAIL - MINERAL POINT ROAD**



SEE NOTE 2

- NOTES:**
- 1) CONTRACTOR TO STAGE WORK SUCH TO ENSURE THAT CROSSWALKS IN EITHER THE NORTH AND SOUTH DIRECTIONS, AND THE EAST AND WEST DIRECTIONS ARE NEVER CLOSED AT THE SAME TIME.
  - 2) IF DROP-OFFS GREATER THAN 4 INCHES ARE ANTICIPATED TO EXIST FOR MORE THAN 48 HOURS AND ARE WITHIN 8 FEET OF THE EDGE OF TRAVELED WAY, CONTRACTOR TO USE TEMPORARY CONCRETE BARRIER OR ELIMINATE THE DROP-OFF USING A 3H:1V SLOPE OF COMPACTED AGGREGATE MATERIAL.
  - 3) CONTRACTOR TO STAGE WORK SUCH THAT CONSTRUCTION OPERATIONS FOR THE WIDENED SIDEWALK ON THE NORTH SIDE OF MINERAL POINT ROAD ARE NOT BEING PERFORMED CONCURRENT WITH MEDIAN NOSE IMPROVEMENTS

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60631225P	60631225P	2022-06-16	TSJ

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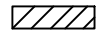


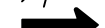
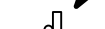
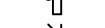
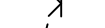
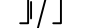
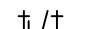
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 MAINTENANCE OF TRAFFIC - MEDIAN NOSE IMPROVEMENTS  
 CITY OF MADISON, DANE COUNTY, WI  
 BUS RAPID TRANSIT  
 CITY OF MADISON  
 CONTRACT NO: 60631225C

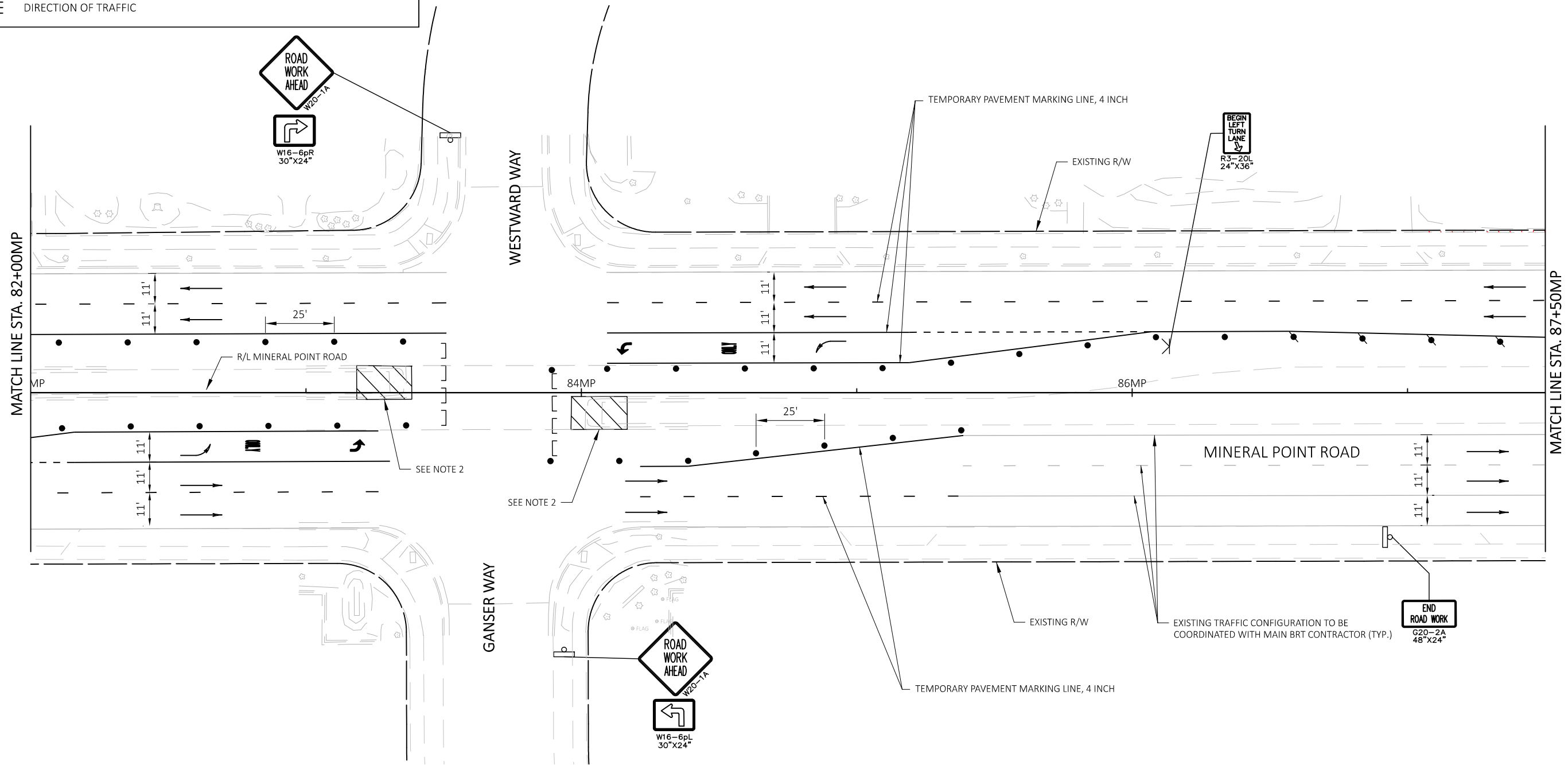


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 TC-04

**TRAFFIC CONTROL LEGEND**

-  WORK AREA
-  COMPLETED WORK (PREVIOUS STAGE)
-  DRUMS WITH/WITHOUT WARNING LIGHT, TYPE C
-  FLASHING ARROW BOARD
-  POST MOUNTED SIGN
-  SIGN ON PORTABLE SUPPORT (5' MINIMUM, MOUNTING HEIGHT)
-  BARRICADE TYPE III (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH/WITHOUT SIGN
-  BARRICADE TYPE II WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
-  DIRECTION OF TRAFFIC

**MEDIAN NOSE IMPROVEMENTS WORK ZONE  
STANDARD DETAIL - MINERAL POINT ROAD**



**NOTES:**

- 1) CONTRACTOR TO STAGE WORK SUCH TO ENSURE THAT CROSSWALKS IN EITHER THE NORTH AND SOUTH DIRECTIONS, AND THE EAST AND WEST DIRECTIONS ARE NEVER CLOSED AT THE SAME TIME.
- 2) IF DROP-OFFS GREATER THAN 4 INCHES ARE ANTICIPATED TO EXIST FOR MORE THAN 48 HOURS AND ARE WITHIN 8 FEET OF THE EDGE OF TRAVELED WAY CONTRACTOR TO USE TEMPORARY CONCRETE BARRIER OR ELIMINATE THE DROP-OFF USING A 3H:1V SLOPE OF COMPACTED AGGREGATE MATERIAL
- 3) CONTRACTOR TO STAGE WORK SUCH THAT CONSTRUCTION OPERATIONS FOR THE WIDENED SIDEWALK ON THE NORTH SIDE OF MINERAL POINT ROAD ARE NOT BEING PREFORMED CONCURRENT WITH MEDIAN NOSE IMPROVEMENTS

MARK	REVISION	DATE	BY

60631225P  
 CITY OF MADISON, DANE COUNTY, WI  
 CONTRACT NO: 60631225C



60631225P  
 TC-05