

PROJECT ID: 2967-16-70
WITH N/A

COUNTY: MILWAUKEE

Order of Sheets

Sheet No. 1	Title
Sheet No. 2	Typical Sections and Details
Sheet No. 3	Estimate of Quantities
Sheet No. 3	Miscellaneous Quantities
Sheet No. 4	Right of Way Plat
Sheet No. 5	Plan and Profile
Sheet No. 6	Standard Detail Drawings
Sheet No. 7	Structure Plans
Sheet No. 8	Computer Earthwork Data
Sheet No. 9	Cross Sections

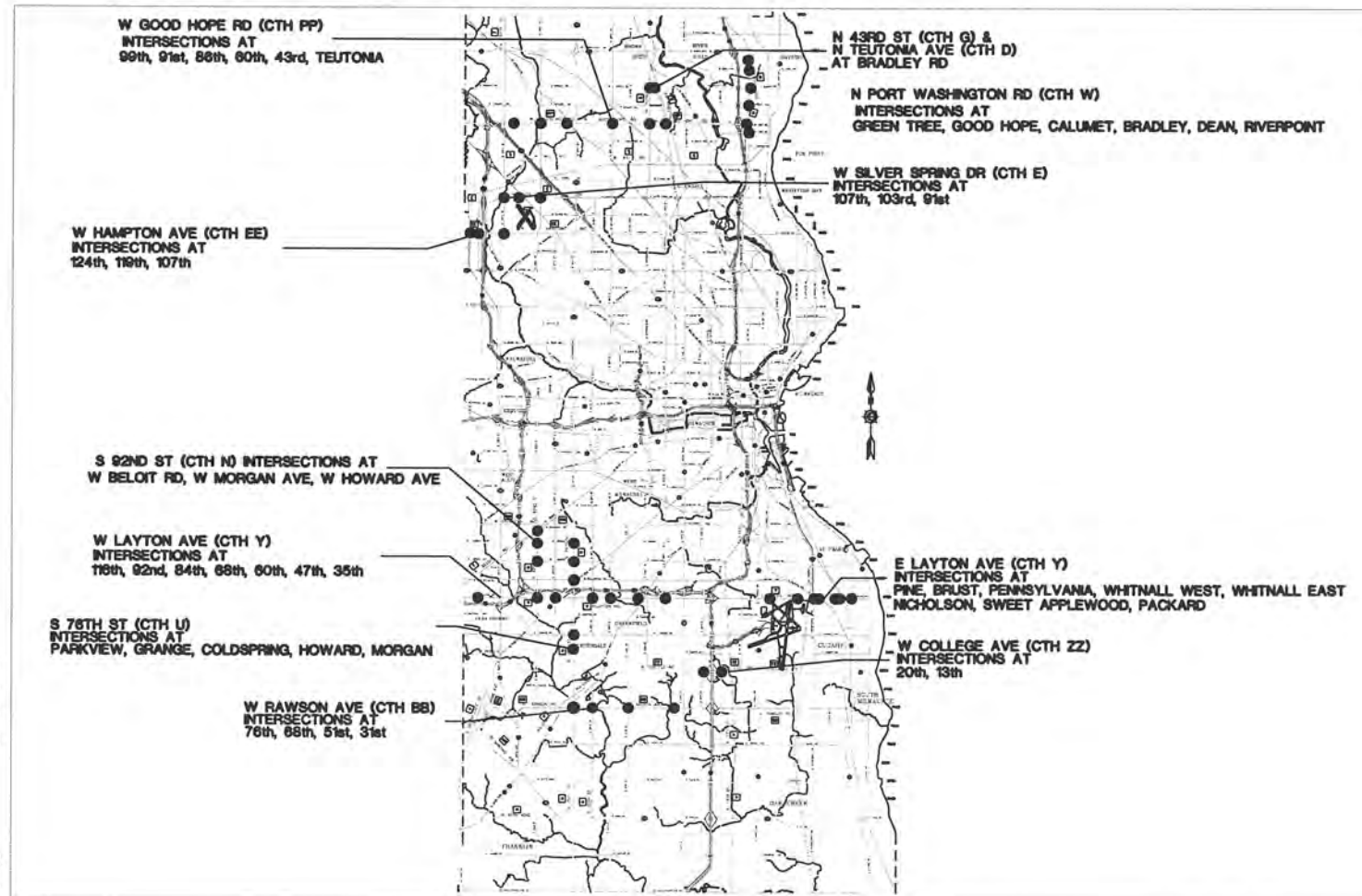
TOTAL SHEETS = 62



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
Pedestrian Countdown Signal Heads
49 VARIOUS INTERSECTIONS, MILWAUKEE COUNTY

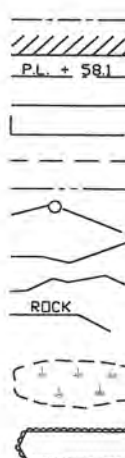
--
**Local Streets
MILWAUKEE COUNTY**

STATE PROJECT NUMBER
2967-16-70

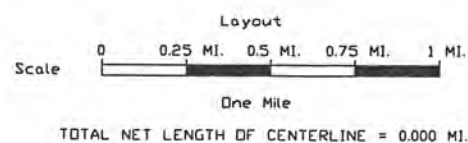


CONVENTIONAL SYMBOLS

- COUNTY LINE
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SURVEY LINE
- SLOPE INTERCEPT
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such)
- MARSH AREA
- WOODED OR SHRUB AREA



- COMBUSTIBLE FLUIDS
- UNDERGROUND UTILITIES
- GAS
- ELECTRIC
- TELEPHONE OR TELEGRAPH
- COMMUNICATIONS LINE
- SERVICE PEDESTAL
- POWER POLE
- TELEPHONE POLE
- RAILROAD
- SANITARY SEWER
- STORM SEWER
- WATER
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- CULVERT (Profile View)



ELEVATIONS SHOWN ON THIS PLAN
ARE BASED ON NGVD29.

ALL COORDINATES SHOWN ON THIS PLAN
ARE REFERENCED TO THE WISCONSIN STATE
PLANE COORDINATE SYSTEM (WSPCS), NAD27
SOUTH ZONE.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2967-16-70	WISC 2014300	1

ORIGINAL PLANS PREPARED BY:



PROJECT DESIGNER:
DATE: 6/16/14

RECOMMENDED FOR APPROVAL:

DATE: 6/16/2014
Manager Transportation Services

APPROVED:
DATE: 6/17/14
Director of Milwaukee County
Department of Transportation

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor Milwaukee County
Designer Milwaukee County
Management Consultant DAAR Engineering, INC.
C.D. EXAMINER

APPROVED FOR THE DEPARTMENT

DATE: 6/17/2014
Management Consultant Signature
DAAR Engineering, Inc.

STANDARD ABBRIVATIONS

AEW	APRON ENDWALL	PE	PRIVATE ENTRANCE
AGG	AGGREGATE	PI	POINT OF INTERSECTION
BAD	BASE AGGREGATE DENSE	PLE	PERMANENT LIMITED EASEMENT
BM	BENCHMARK	PT	POINT OF TANGENT
C&G	CURB AND GUTTER	R	RADIUS OF CURVE
CL OR C L	CENTER OR CONSTRUCTION LINE	R/L	REFERENCE LINE
CMCP	CULVERT PIPE CORRUGATED METAL	R/W	RIGHT OF WAY
CONC	CONCRETE	RC	REVERSE CROWN
CP	CULVERT PIPE	RCAEW	APRON END WALL FOR CULVERT PIPE REINFORCEI CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE	REQD	REQUIRED
CSD	CONCRETE SURFACE DRAIN	RHF	RIGHT HAND FORWARD
CY	CUBIC YARD	RO	RUN OFF LENGTH
DD	DEGREE OF CURVE DEGREE OF CURVE	RRSP	RAILROAD SPIKE RAILROAD SPIKE
Δ	DELTA	RT	RIGHT
DISCH	DISCHARGE	SLV	SALVAGED
FE	FIELD ENTRANCE	SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
HMA	HOT MIX ASPHALTIC	SB	SOUTHBOUND
INV	INVERT	SDD	STANDARD DETAIL DRAWING
L	LENGTH OF CURVE	SE	SUPER ELEVATION
LHF	LEFT HAND FORWARD	SF	SQUARE FOOT
LT	LEFT	STA	STATION
M/L	MAINLINE	SY	SQUARE YARD
NB	NORTHBOUND	T	TANGENT LENGTH
NC	NORMAL CROWN	TLE	TEMPORARY LIMITED EASEMENT
PAVT	PAVEMENT	VCL	VERTICAL CURVE LENGTH
PC	POINT OF CURVE	VPC	POINT VERTICAL CURVE
PCC	POINT OF COMPOUND CURVE	VPI	POINT OF VERTICAL INTERSECTION

GENERAL NOTES

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE AND MUST BE CONTACTED SEPARATELY.

UTILITIES

AT&T
2005 Pewaukee Road
Waukesha, WI 53188
ATTN: Mr. Mark Eder
Phone: (262) 896-7434

Time Warner Cable Communications
1320 N. Martin Luther King Dr.
Milwaukee, WI 53212
ATTN: Mr. Steve Cramer
Phone: (414) 277-4045

WE ENERGIES – ELECTRIC
231 W. Michigan Ave.
P.O. Box 2046
Milwaukee, WI 53201-2046
ATTN: Mr. Mike Mlinar
Phone: (414) 944-5537

WE ENERGIES – GAS OPERATIONS
4900 W. Rawson Ave.
Franklin, WI 53132
ATTN: Mr. Chris DeGrave
Phone: (414) 423-5062

WE ENERGIES
333 W. Everett St. – A299
Milwaukee, WI 53203
ATTN: Mr. La Troy Brumfield
Phone: (414) 221-5617

AGENCIES

Village of Brown Deer
4800 West Green Brook Drive
Brown Deer, WI 53223
ATTN: Mr. Michael Hall, Village
Manager

City of Cudahy
Engineering Department
5050 S. Lake Drive
Cudahy, WI 53110
ATTN: Ms. Mary Jo Lange
Phone: (414) 769-2213

Village of Fox Point
7200 N. Santa Monica Blvd.
Fox Point, WI 53217
ATTN: Ms. Melissa Bohse, Village
Manager
Phone: (414) 351-8900

City of Franklin
9229 W. Loomis Rd.
Franklin, WI 53132
ATTN: Mr. John Bennett
Phone: (414) 425-7510

City of Glendale
5909 W. Milwaukee River Pkwy.
Glendale WI 53209
ATTN: Mr. David Eastman
Phone: (414) 228-1746

Village of Greendale
6500 Northway
Greendale, WI 53129
ATTN: Mr. Todd Michaels, Village
Manager
Phone: (414) 423-2100

City of Greenfield
Dept. of Neighborhood Services
7325 W. Forest Home Ave.
Greenfield, WI 53220
ATTN: Mr. Richard Sokol
Phone: (414) 329-5324

City of Milwaukee
841 N Broadway, Room 701
Milwaukee, WI 53202
ATTN: Mr. Jeff Polenske, City Engineer
Phone: (414) 286-3701

Construction:
ATTN: Mr. Tony Kotecki
Phone: (414) 708-3886 (C)

Traffic (Signals):
ATTN: Mr. Jerry Wilson
Phone: (414) 286-5941

Street Lighting:
ATTN: Mr. Tom Manzke
Phone: (414) 286-3481

Forestry:
ATTN: Mr. James Kringer
Phone: (414) 708-2484 (C)

Water Works:
ATTN: Mr. Dave Goldapp
Phone: (414) 286-6301

City of Oak Creek
Engineering Department
8640 S. Howell Avenue
Oak Creek, WI 53154
ATTN: Mr. Mike Simmons
Phone: 414-768-6541

City of Saint Francis
4235 South Nicholson Ave
St. Francis, Wisconsin 53235
ATTN: Ms. Melinda Dejewski
Phone: (414) 481-2300 Ext. 128

MILWAUKEE COUNTY

Milwaukee County Transit System
1942 N. 17th St.
Milwaukee, WI 53205
ATTN: Mr. Dave Ziarek
Phone: (414) 343-1764

Milwaukee County DOT
Highway Maintenance Division
10190 W. Watertown Plank Rd.
Wauwatosa, WI 53226
ATTN: Mr. Greg Heisel
Phone: (414) 257-6580

Milwaukee County DOT
Electrical Maintenance Division
10190 W. Watertown Plank Rd.
Wauwatosa, WI 53226
ATTN: Mr. Stanley Jackson
Phone: (414) 257-6593

Milwaukee County DOT
Transportation Design Manager
2711 W. Wells St.
Milwaukee, WI 53208
ATTN: Ms. Andrea Weddle-Henning
Phone: (414) 278-4934

Milwaukee County DOT
Traffic Engineering
2711 W. Wells St.
Milwaukee, WI 53208
ATTN: Mr. Daniel Murphy
Phone: (414) 278-4842

STATE AGENCIES

State of Wisconsin
Department of Natural Resources
2300 N. Martin Luther King Jr. Dr.
Milwaukee, WI 53212
ATTN: Ms. Kristina Betzold
(414) 263-8517



**W GOOD HOPE RD (CTH PP)
INTERSECTIONS AT
99th, 91st, 86th, 60th, 43rd, TEUTONIA**

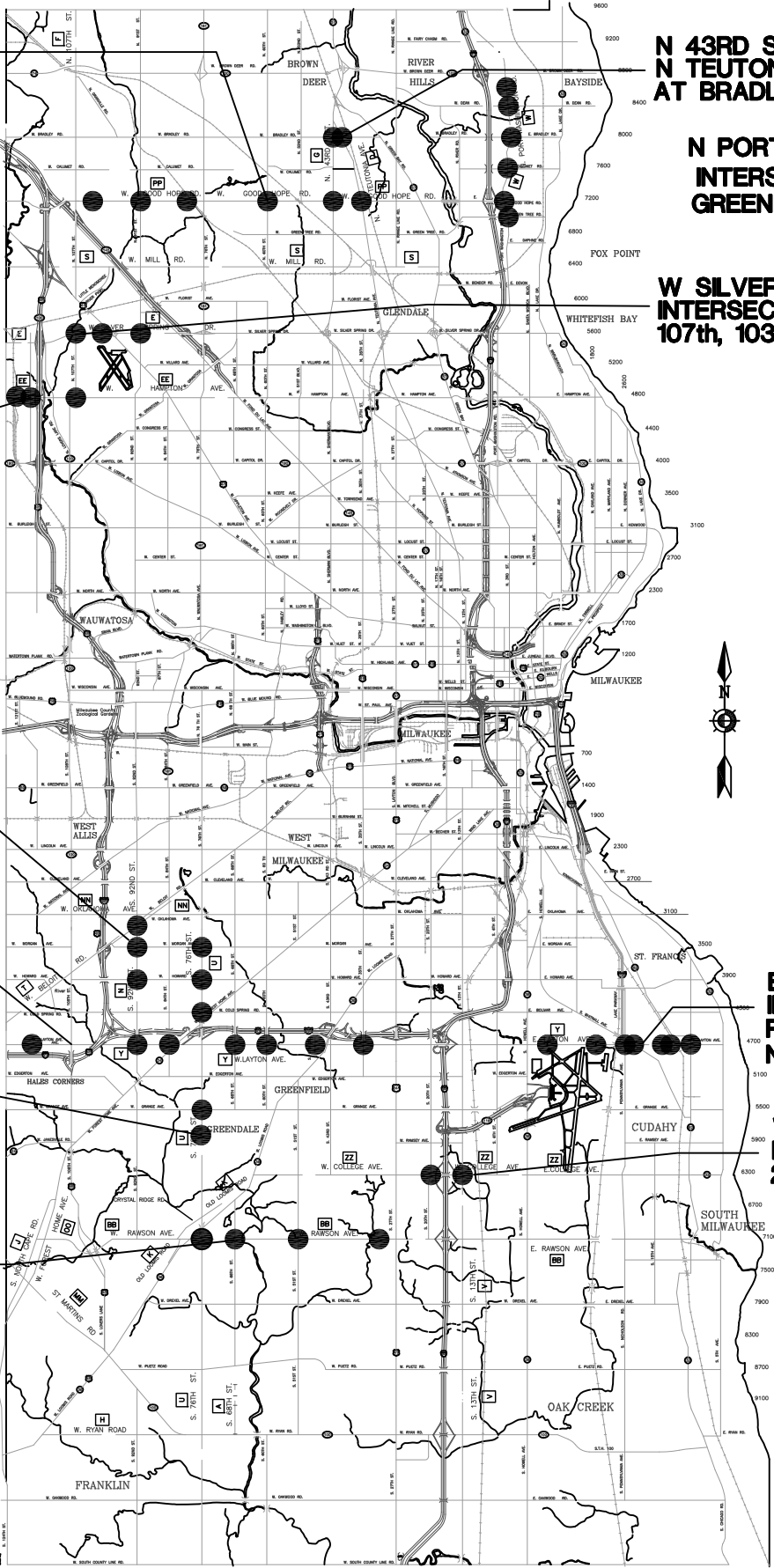
**W HAMPTON AVE (CTH EE)
INTERSECTIONS AT
124th, 119th, 107th**

**S 92ND ST (CTH N) INTERSECTIONS AT
W BELOIT RD, W MORGAN AVE, W HOWARD AVE**

**W LAYTON AVE (CTH Y)
INTERSECTIONS AT
116th, 92nd, 84th, 68th, 60th, 47th, 35th**

**S 76TH ST (CTH U)
INTERSECTIONS AT
PARKVIEW, GRANGE, COLDSPRING, HOWARD, MORGAN**

**W RAWSON AVE (CTH BB)
INTERSECTIONS AT
76th, 68th, 51st, 31st**



**N 43RD ST (CTH G) &
N TEUTONIA AVE (CTH D)
AT BRADLEY RD**

**N PORT WASHINGTON RD (CTH W)
INTERSECTIONS AT
GREEN TREE, GOOD HOPE, CALUMET, BRADLEY, DEAN, RIVERPOINT**

**W SILVER SPRING DR (CTH E)
INTERSECTIONS AT
107th, 103rd, 91st**

**E LAYTON AVE (CTH Y)
INTERSECTIONS AT
PINE, BRUST, PENNSYLVANIA, WHITNALL WEST, WHITNALL EAST
NICHOLSON, SWEET APPLEWOOD, PACKARD**

**W COLLEGE AVE (CTH ZZ)
INTERSECTIONS AT
20th, 13th**

LEGEND

- ☐ CONTROL CABINET
X SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
← SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

S. 76TH ST. (CTH U)

W. RAWSON AVE. (CTH BB)

S. 76TH ST. (CTH U)



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH BB (W. RAWSON AVE.) &
S. 76th ST. (CTH U)
CITY OF FRANKLIN
MILWAUKEE COUNTY

SIGNAL NO. MC052

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

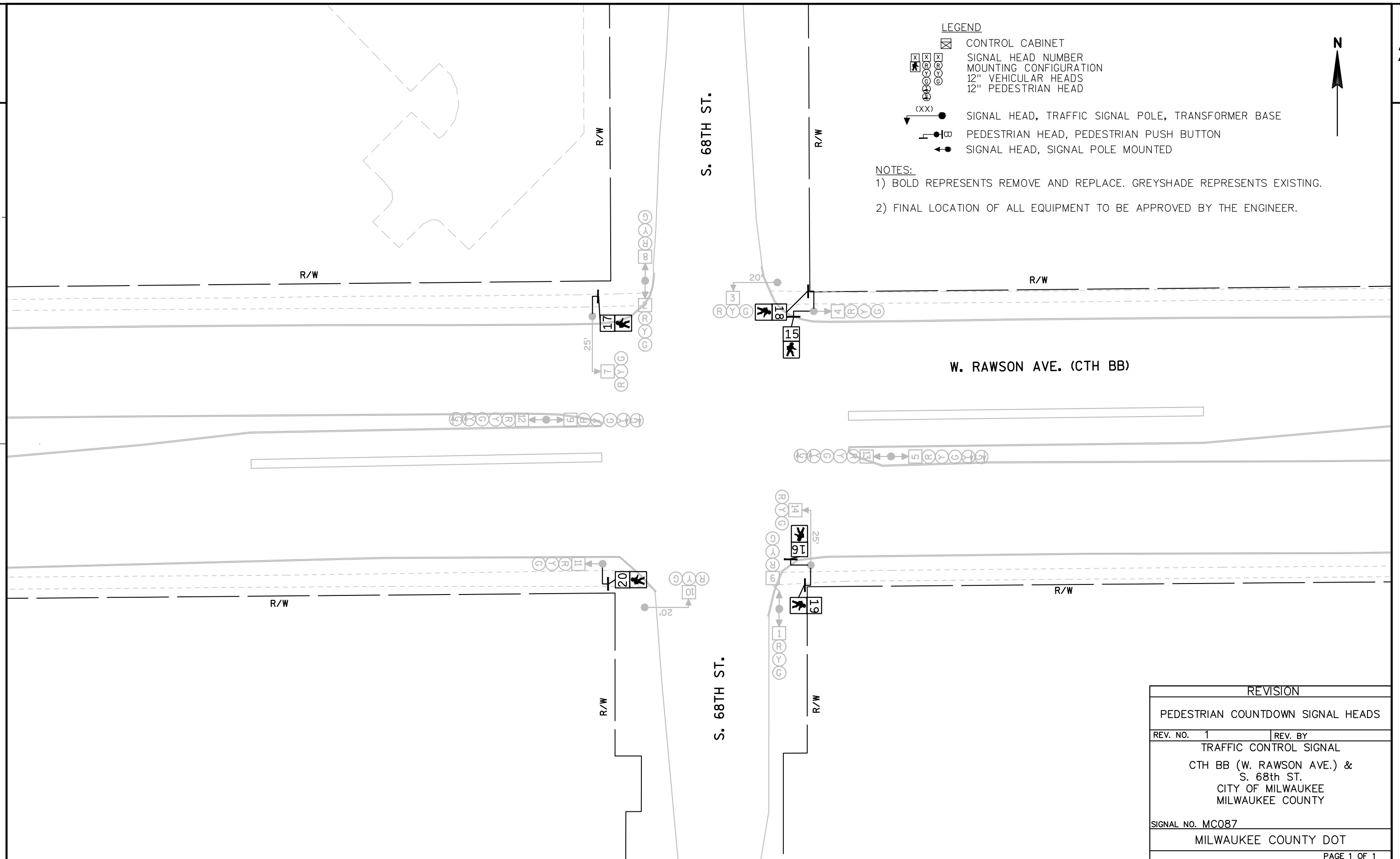
HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH BB (W. RAWSON AVE.) &
S. 68th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC087

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

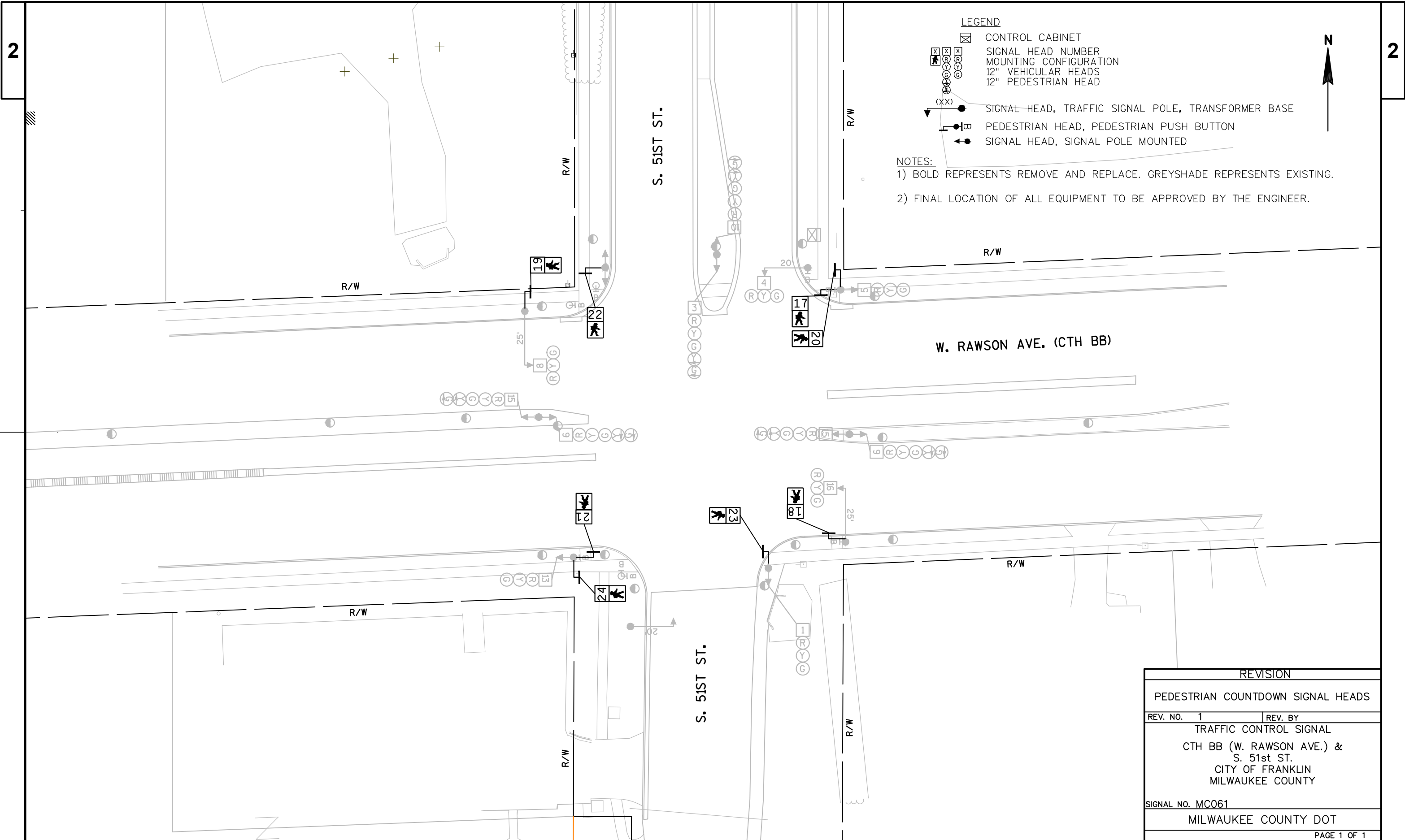
HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E



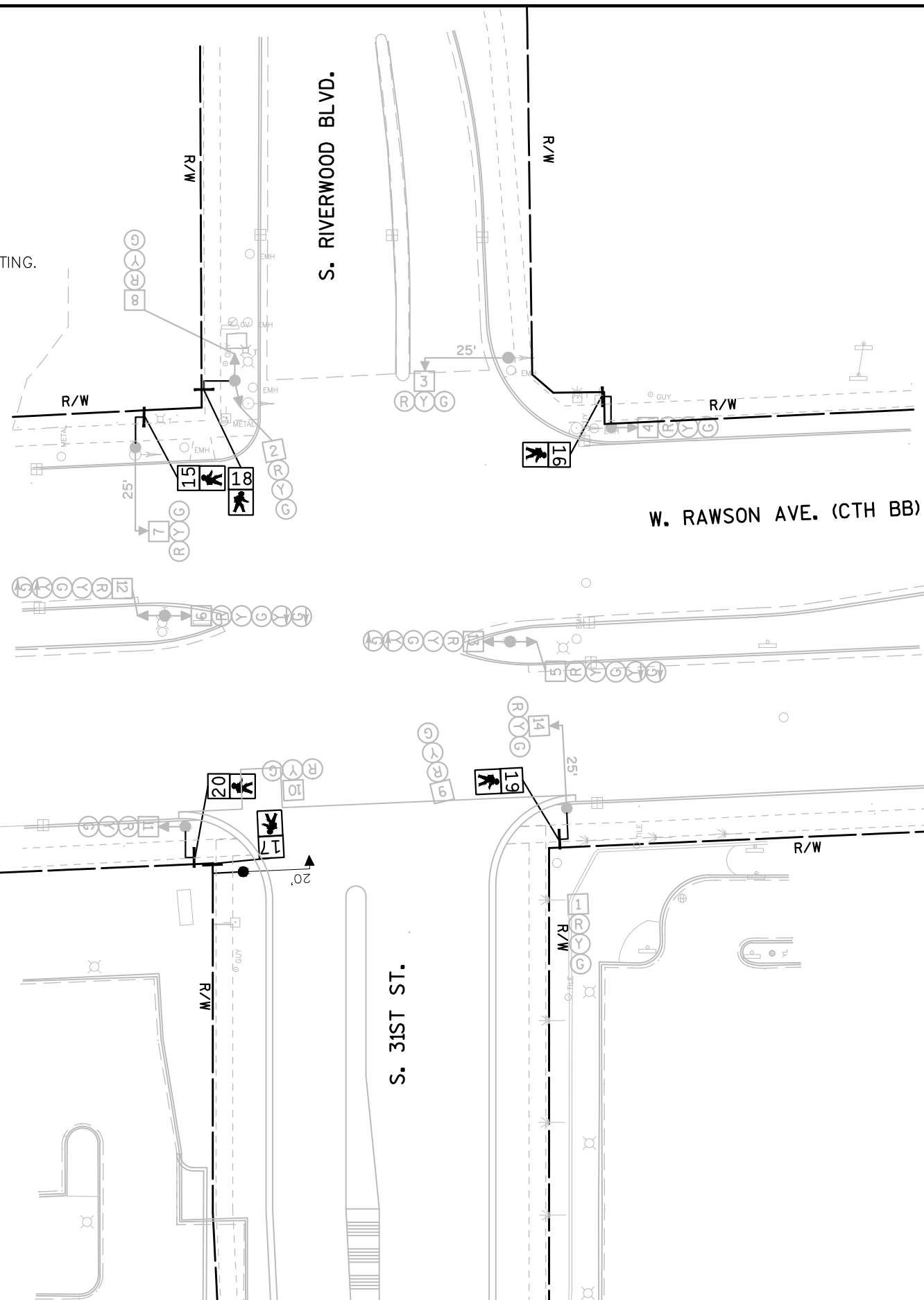
REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH BB (W. RAWSON AVE.) &	
S. 51st ST.	
CITY OF FRANKLIN	
MILWAUKEE COUNTY	
SIGNAL NO. MC061	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[A][R][R][R] MOUNTING CONFIGURATION
[G][Y][G] 12" VEHICULAR HEADS
[G] 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
—●— PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
—●— SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH BB (W. RAWSON AVE.) &
S. 31st ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC090

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

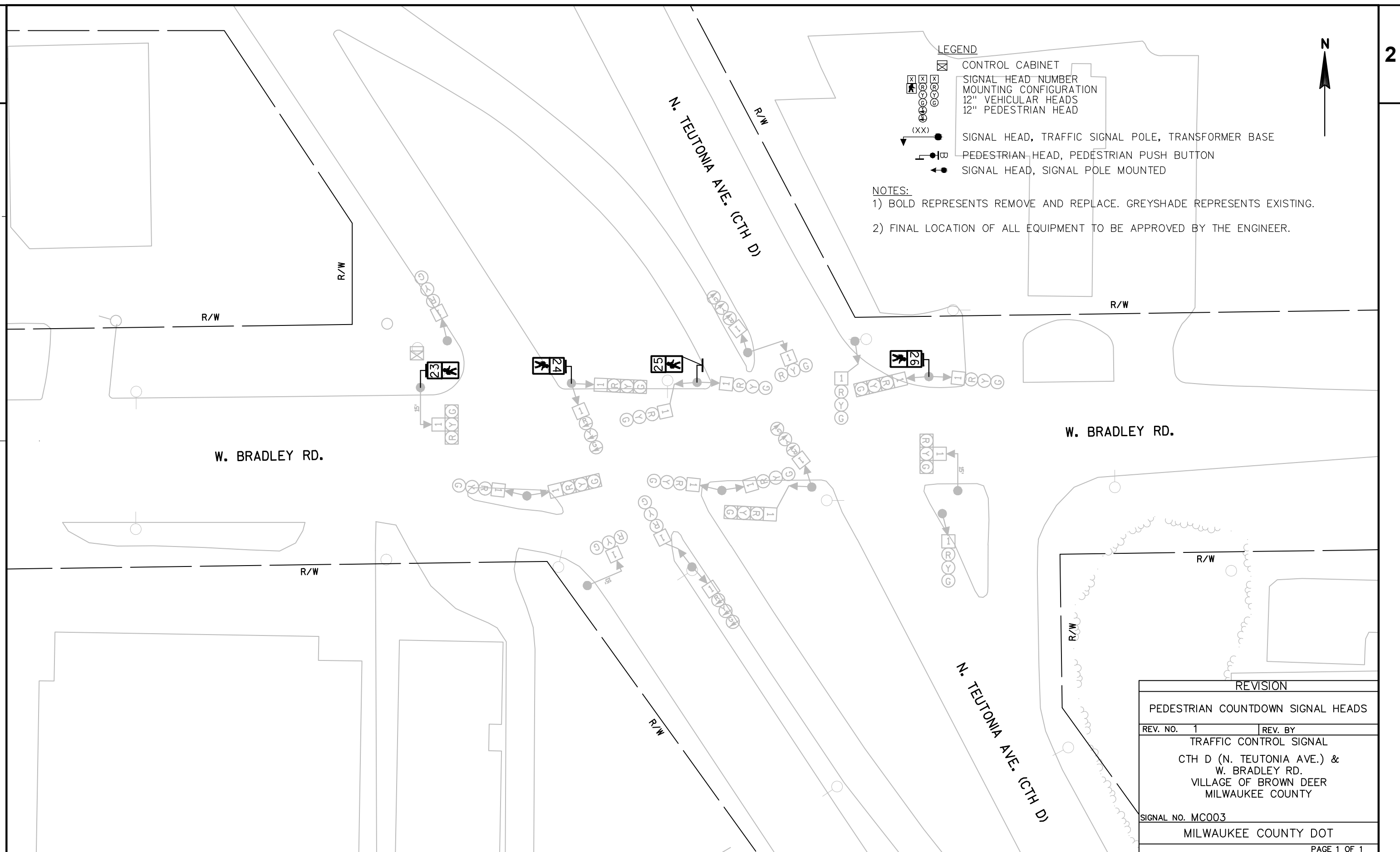
HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

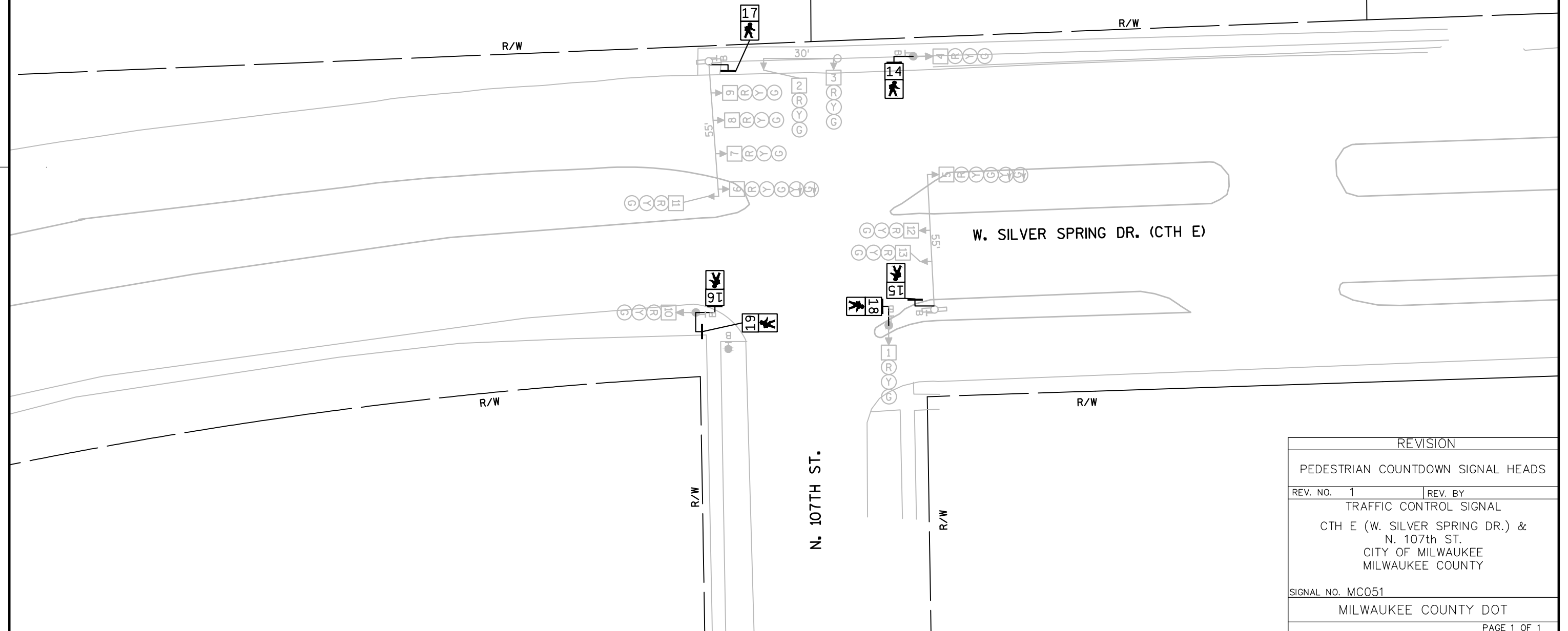


LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM
(XX) [] MONOTUBE BASE, POLE, 35'-55' ARM
[] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
◀ [] SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

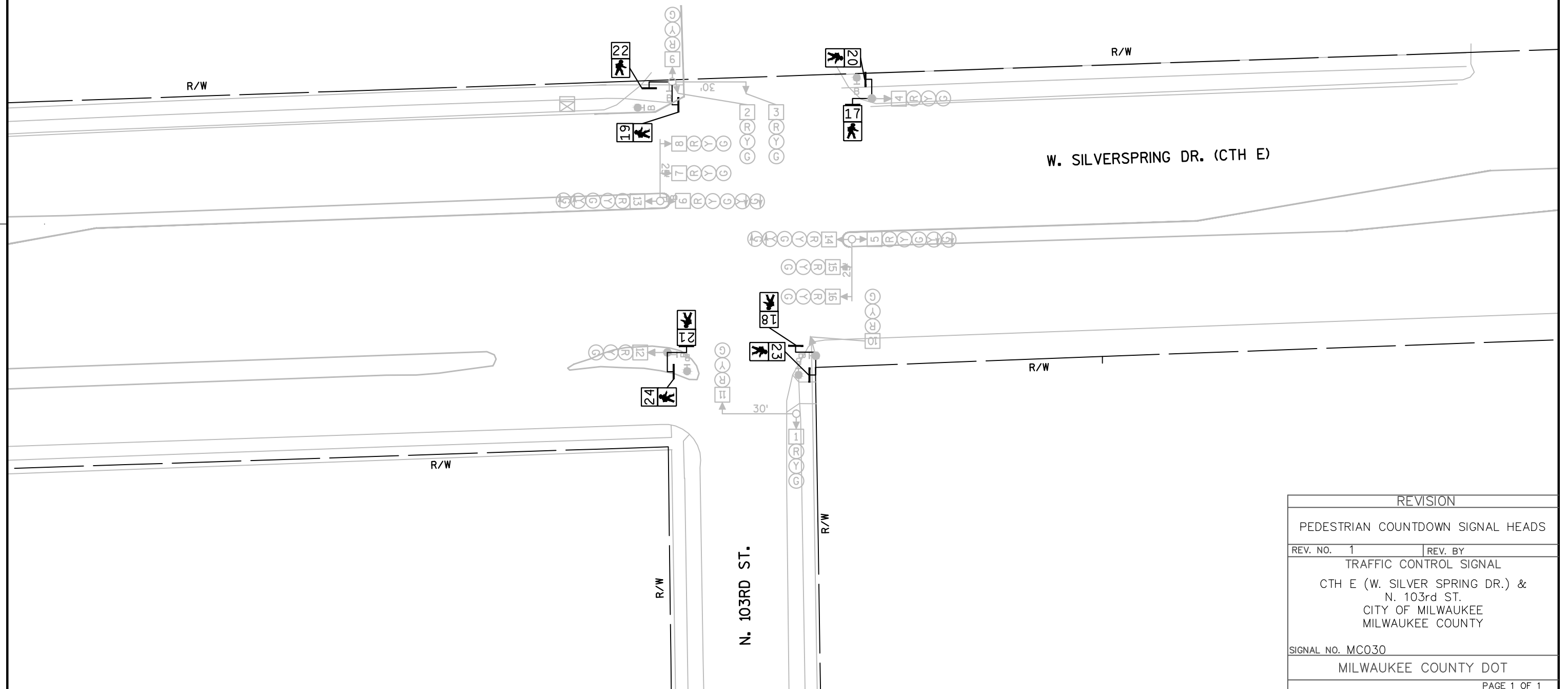


LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
(XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM
(XX) [] MONOTUBE BASE, POLE, 35'-55' ARM
[] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
◀● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH E (W. SILVER SPRING DR.) &
N. 103rd ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC030

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

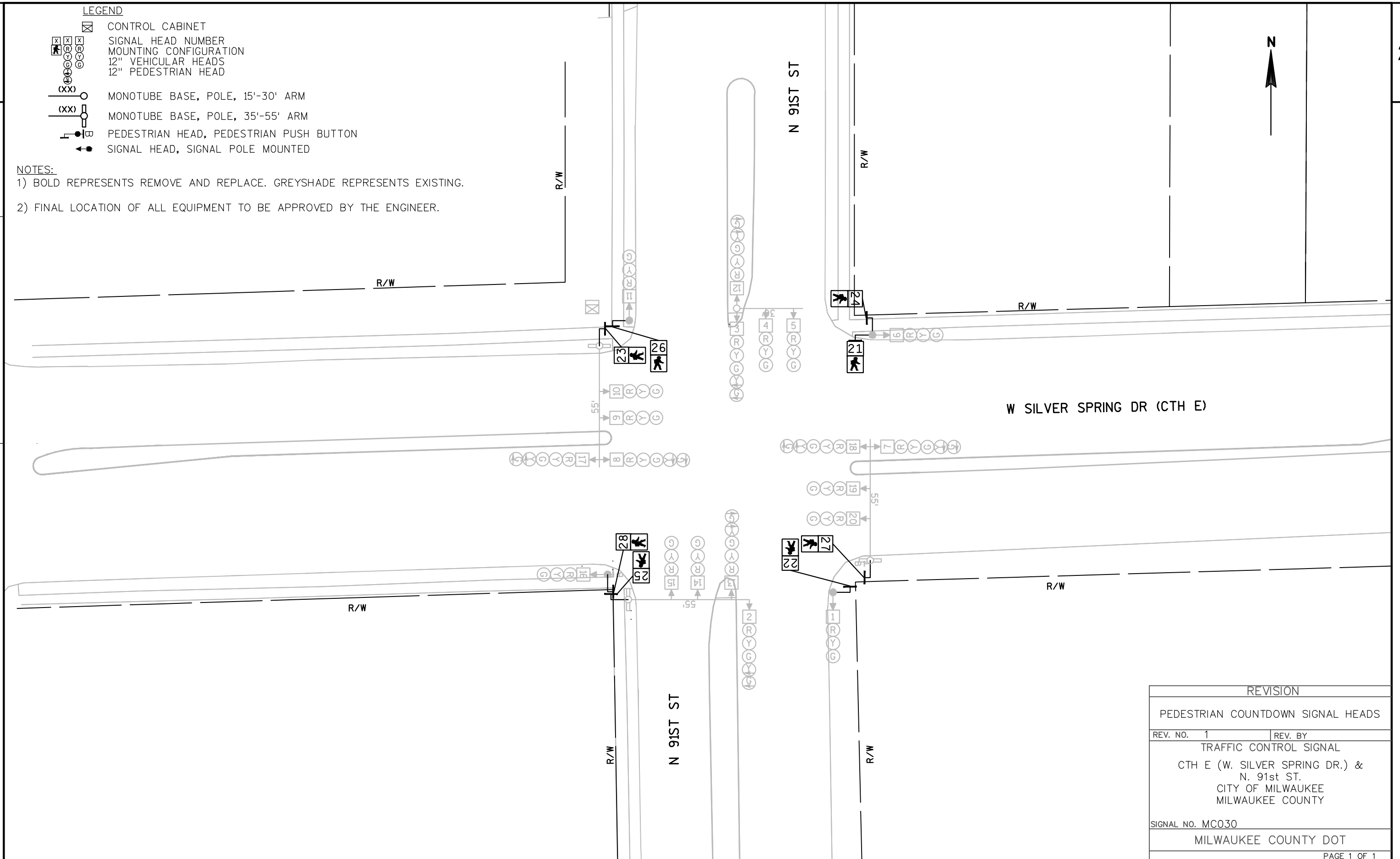
LEGEND

- ☒ CONTROL CABINET
- ☒ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ○ MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) ○ MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ←●— SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

N

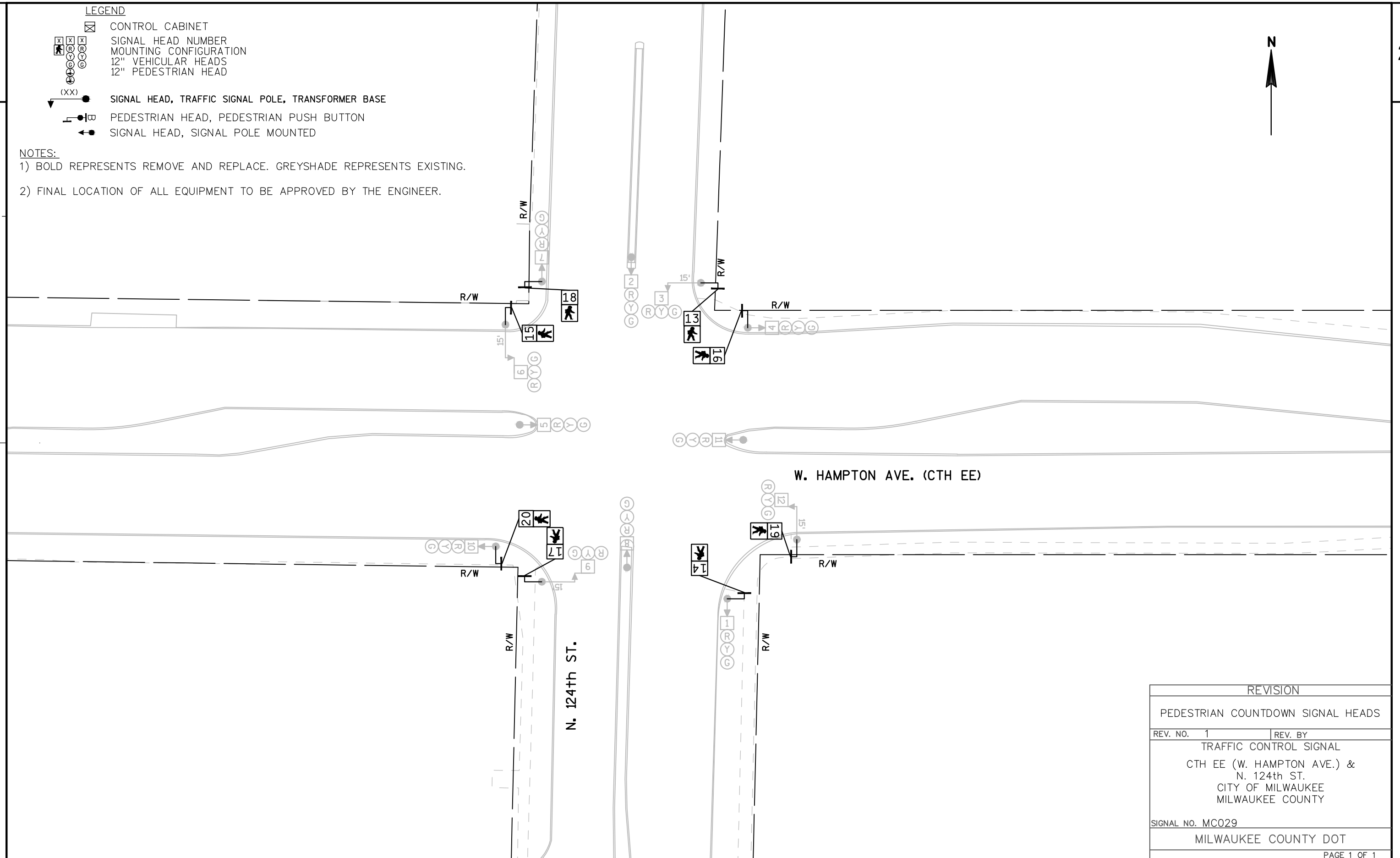


LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
[P] ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
◀ ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH EE (W. HAMPTON AVE.) &
N. 124th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC029

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

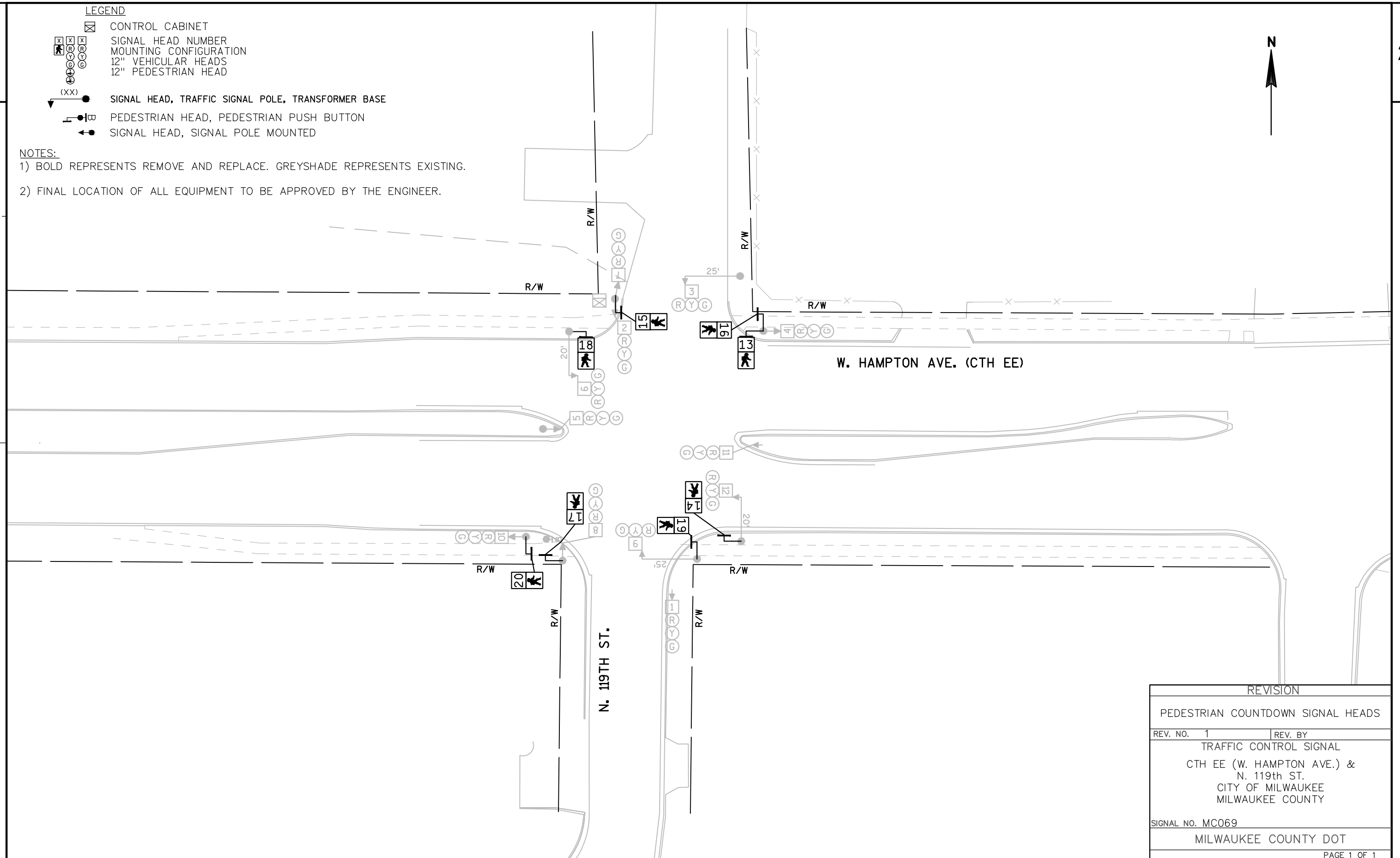
E

LEGEND

- ☒ CONTROL CABINET
- ☒ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ☒ ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ☒ ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH EE (W. HAMPTON AVE.) &
N. 119th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC069

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
◀● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



W. HAMPTON AVE. (CTH EE)

N. 107TH ST.

REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH EE (W. HAMPTON AVE.) &
N. 107th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC044

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

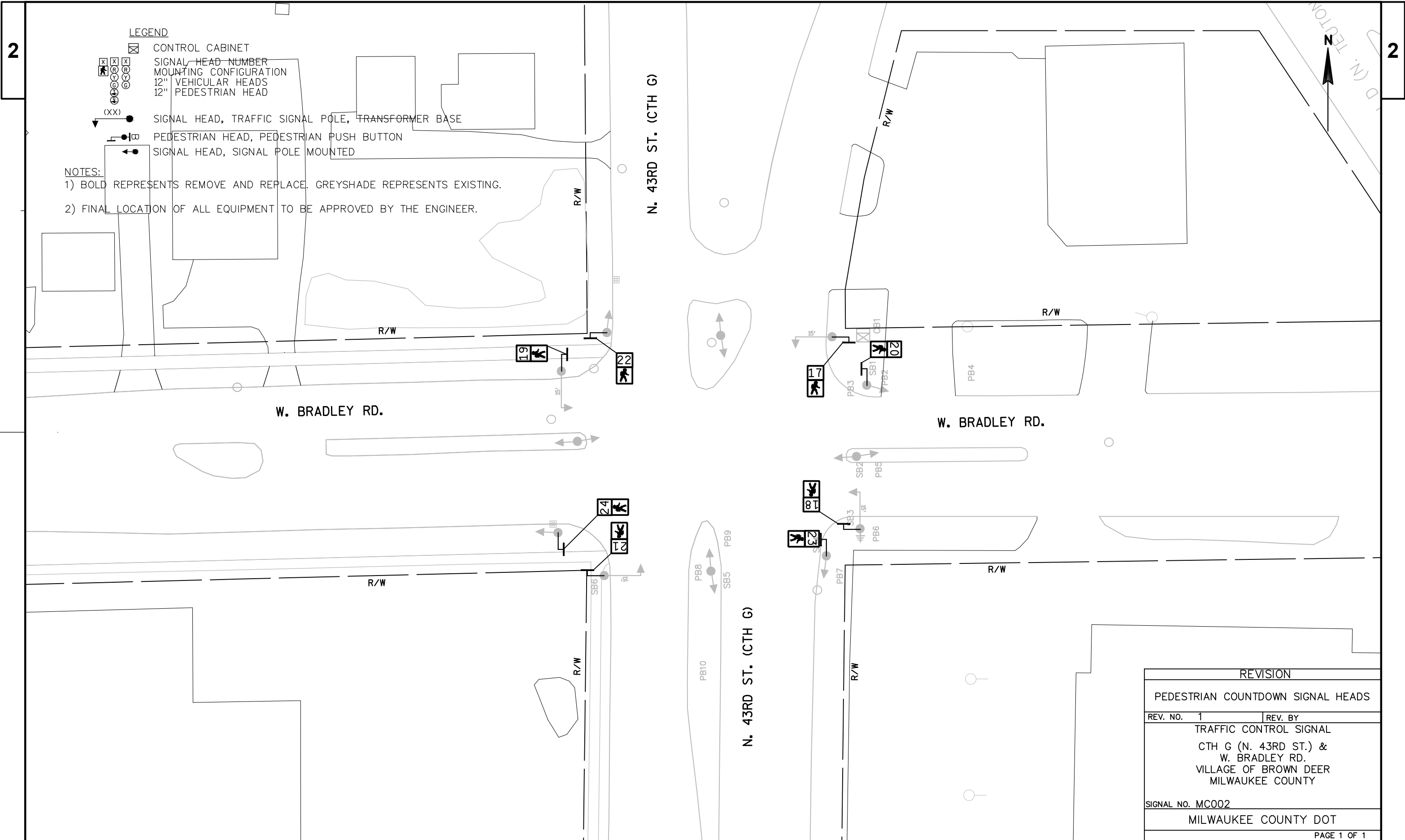
HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

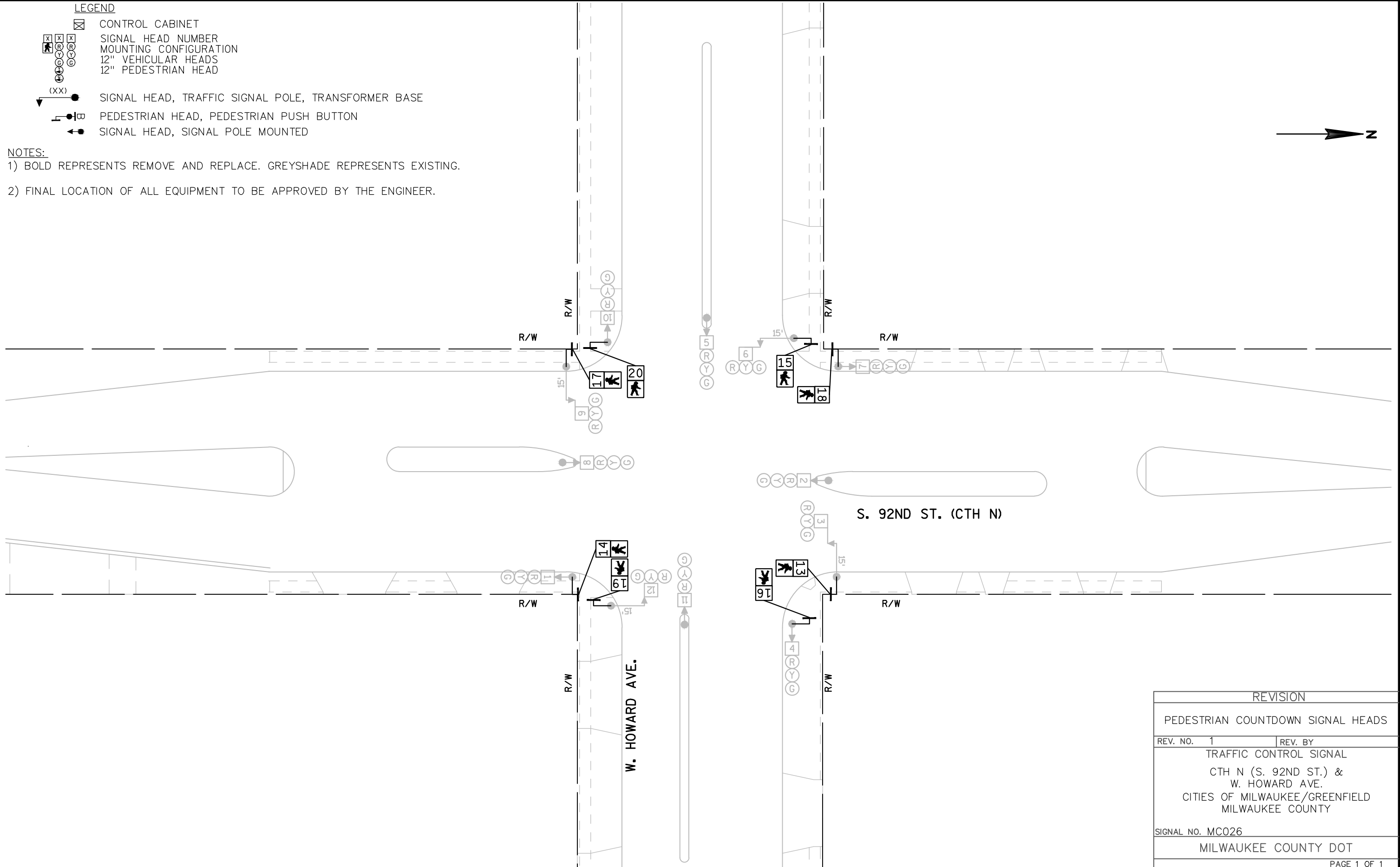


LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
—●— PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
←●— SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

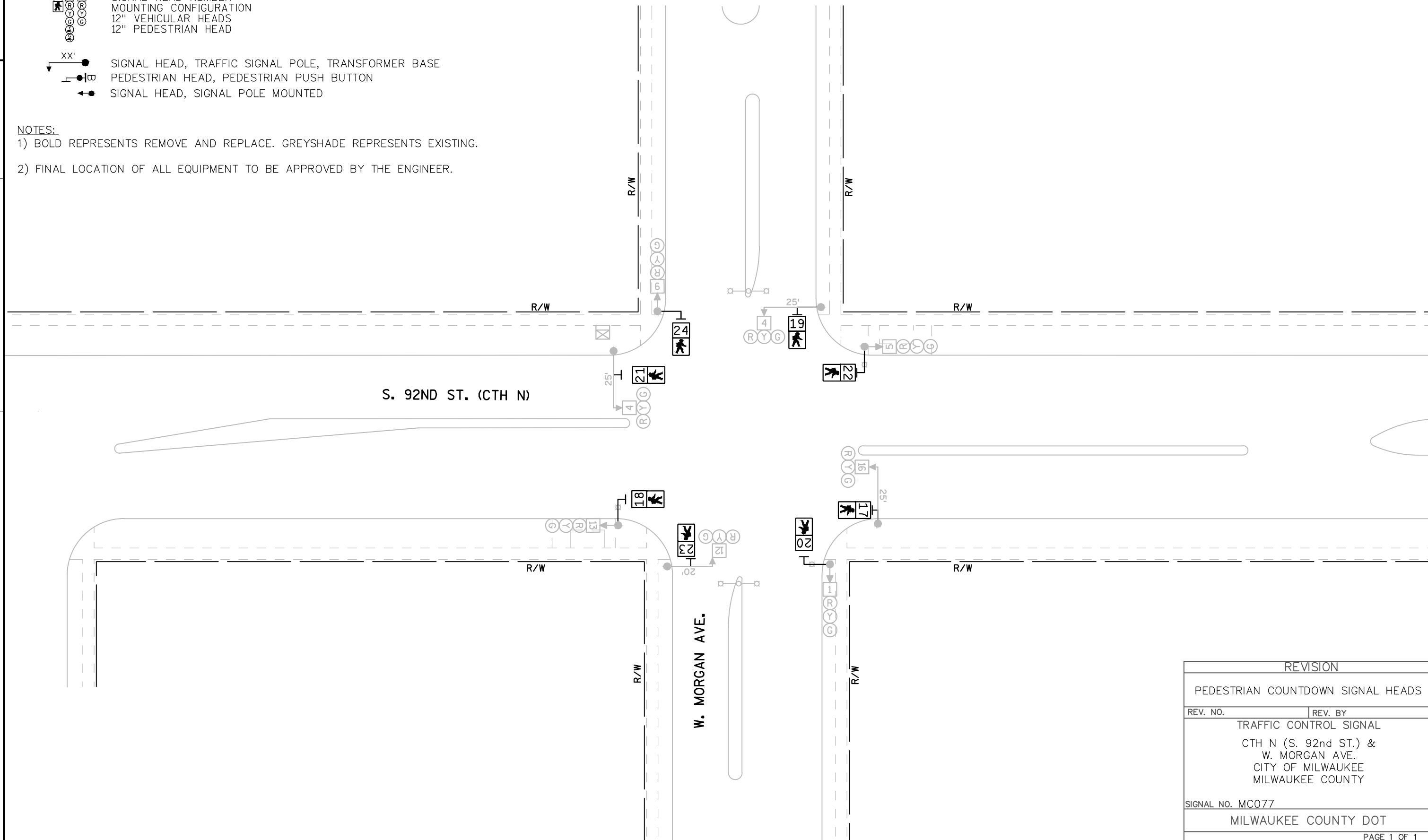


LEGEND

- ☒ CONTROL CABINET
- ☒ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- XX' SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO.

REV. BY

TRAFFIC CONTROL SIGNAL

CTH N (S. 92nd St.) &
W. MORGAN AVE.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC077

MILWAUKEE COUNTY DOT

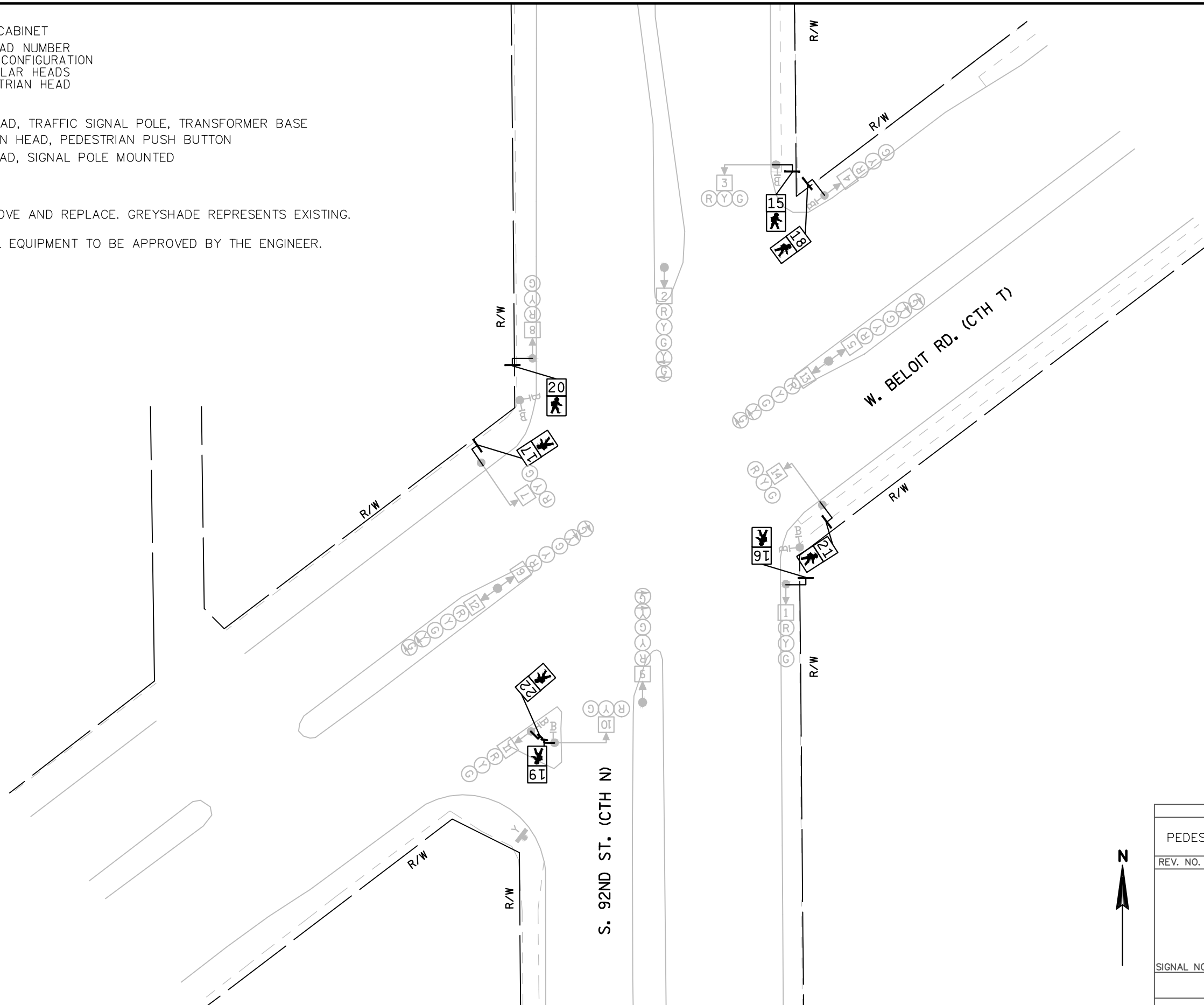
PAGE 1 OF 1

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
XX' SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
—●— PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
←●→ SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

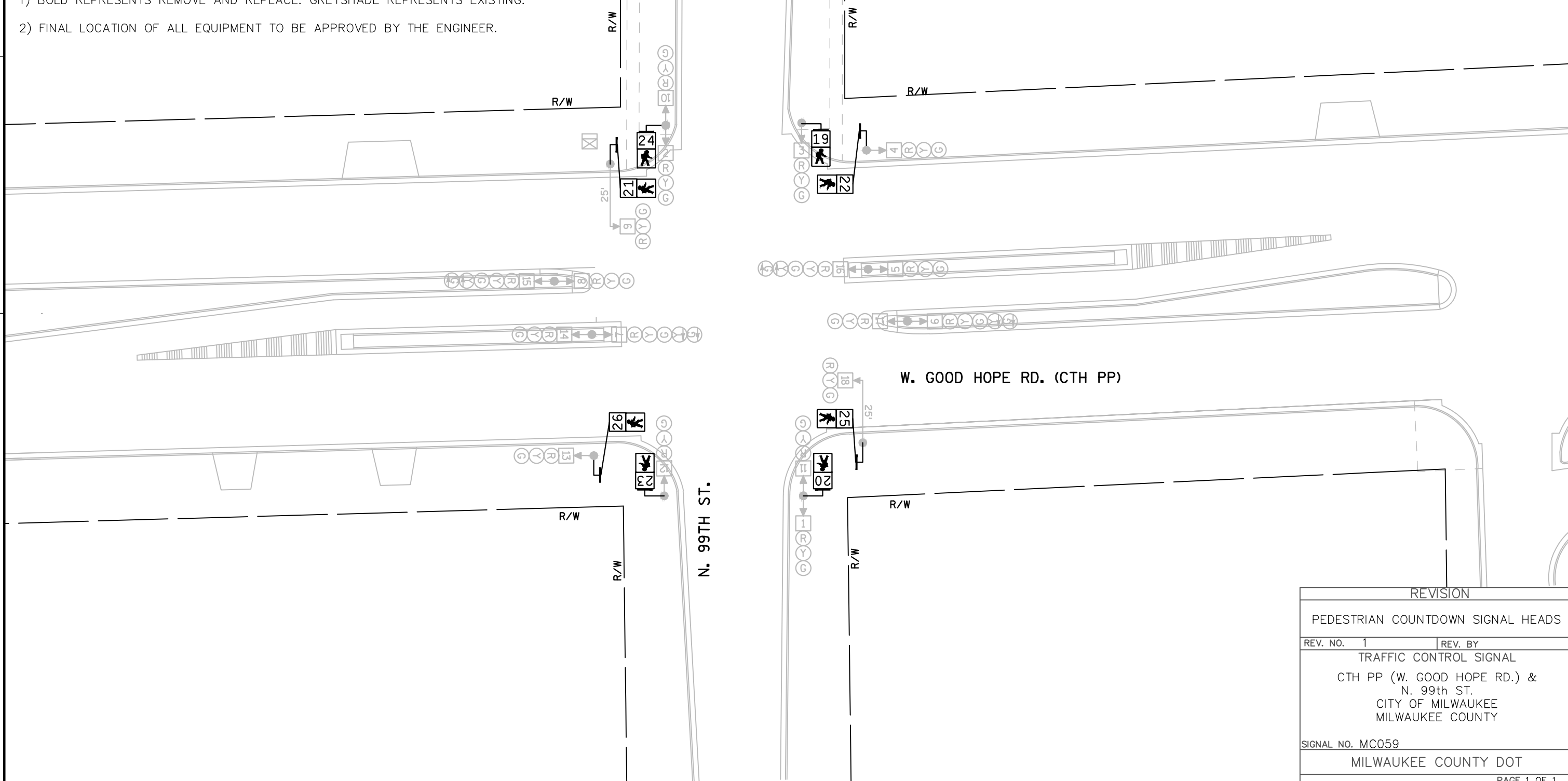
REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH N (S. 92nd ST.) & CTH T (W. BELOIT RD.) CITY OF MILWAUKEE MILWAUKEE COUNTY	
SIGNAL NO. MC007	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

LEGEND

- ☒ CONTROL CABINET
- ⊠ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ⊠ ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ⊠ ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH PP (W. GOOD HOPE RD.) &
N. 99th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC059

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

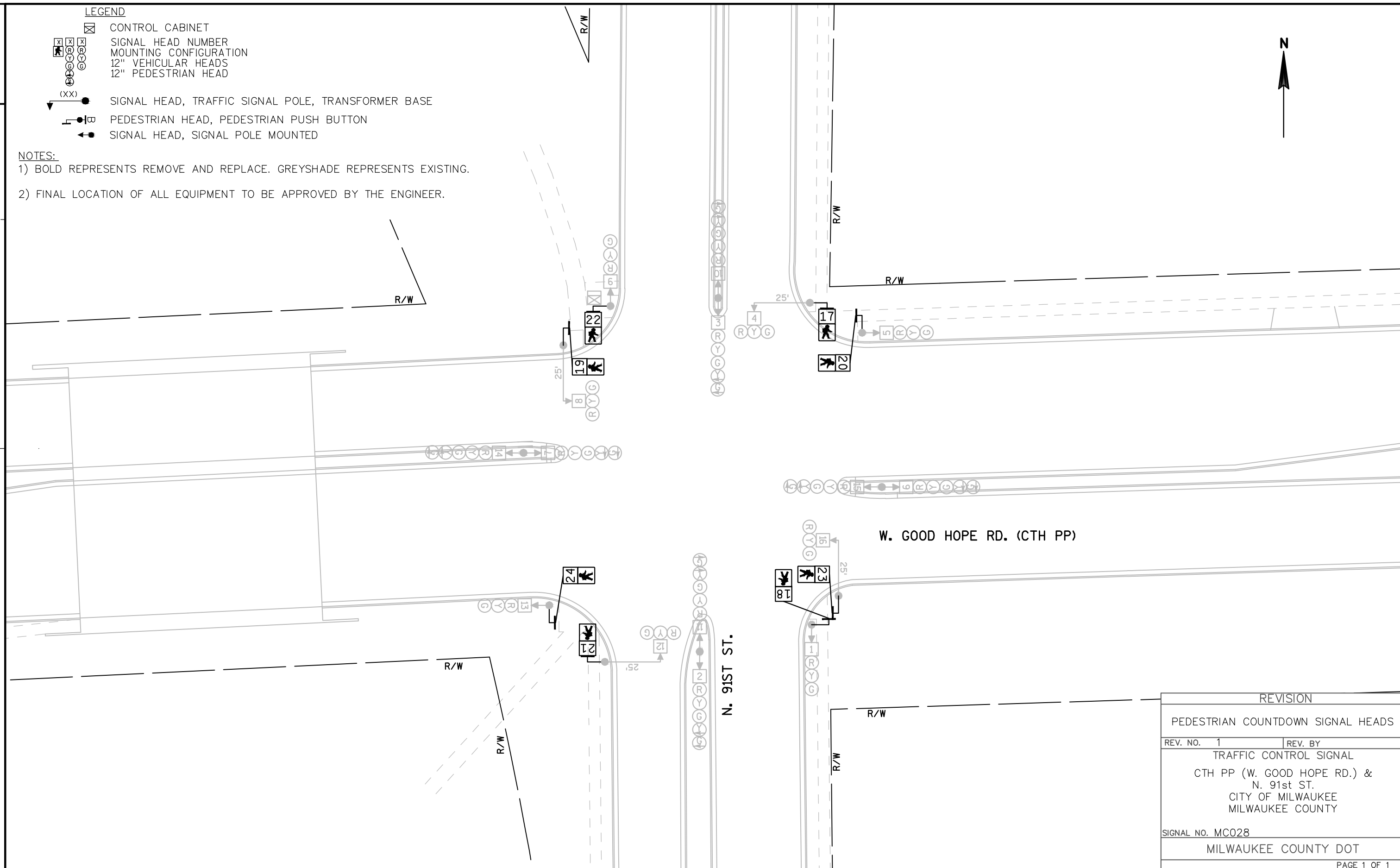
E

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
←● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH PP (W. GOOD HOPE RD.) &
N. 91st ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC028

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

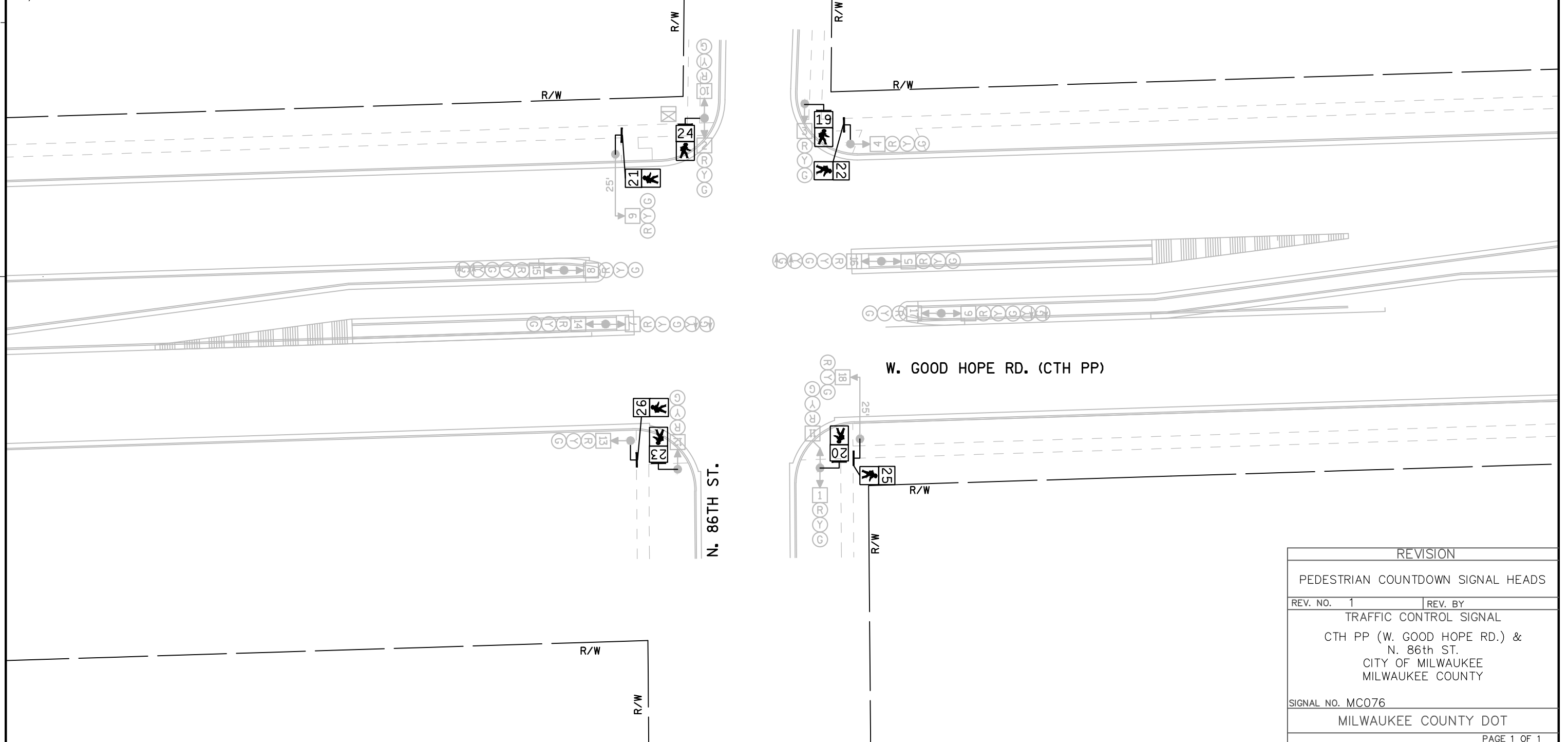
E

LEGEND

- ☒ CONTROL CABINET
- ☒ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ←● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

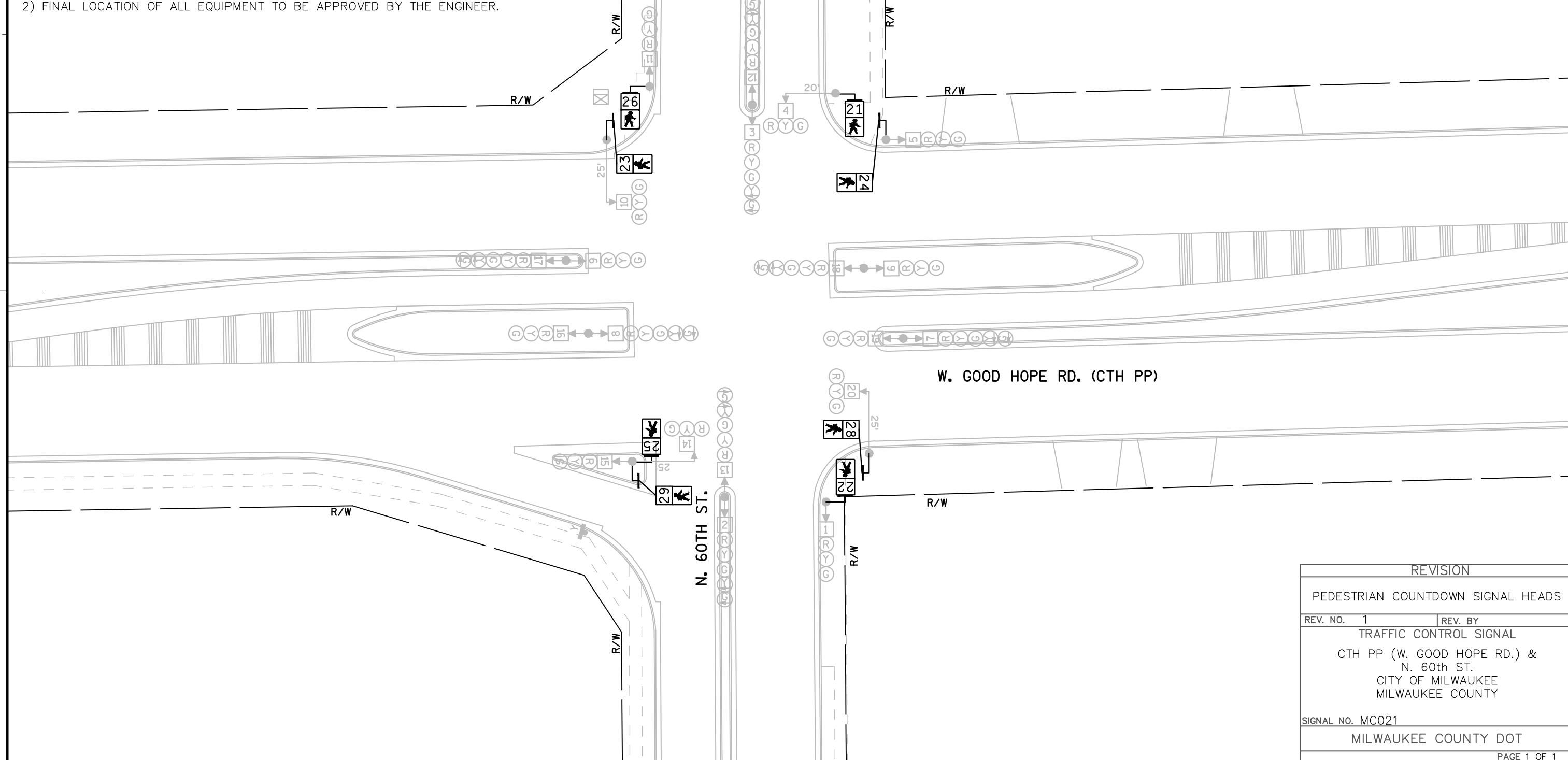
E

LEGEND

- ☒ CONTROL CABINET
- ⊠ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ⊠ ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ← ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH PP (W. GOOD HOPE RD.) &
N. 60th ST.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC021

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

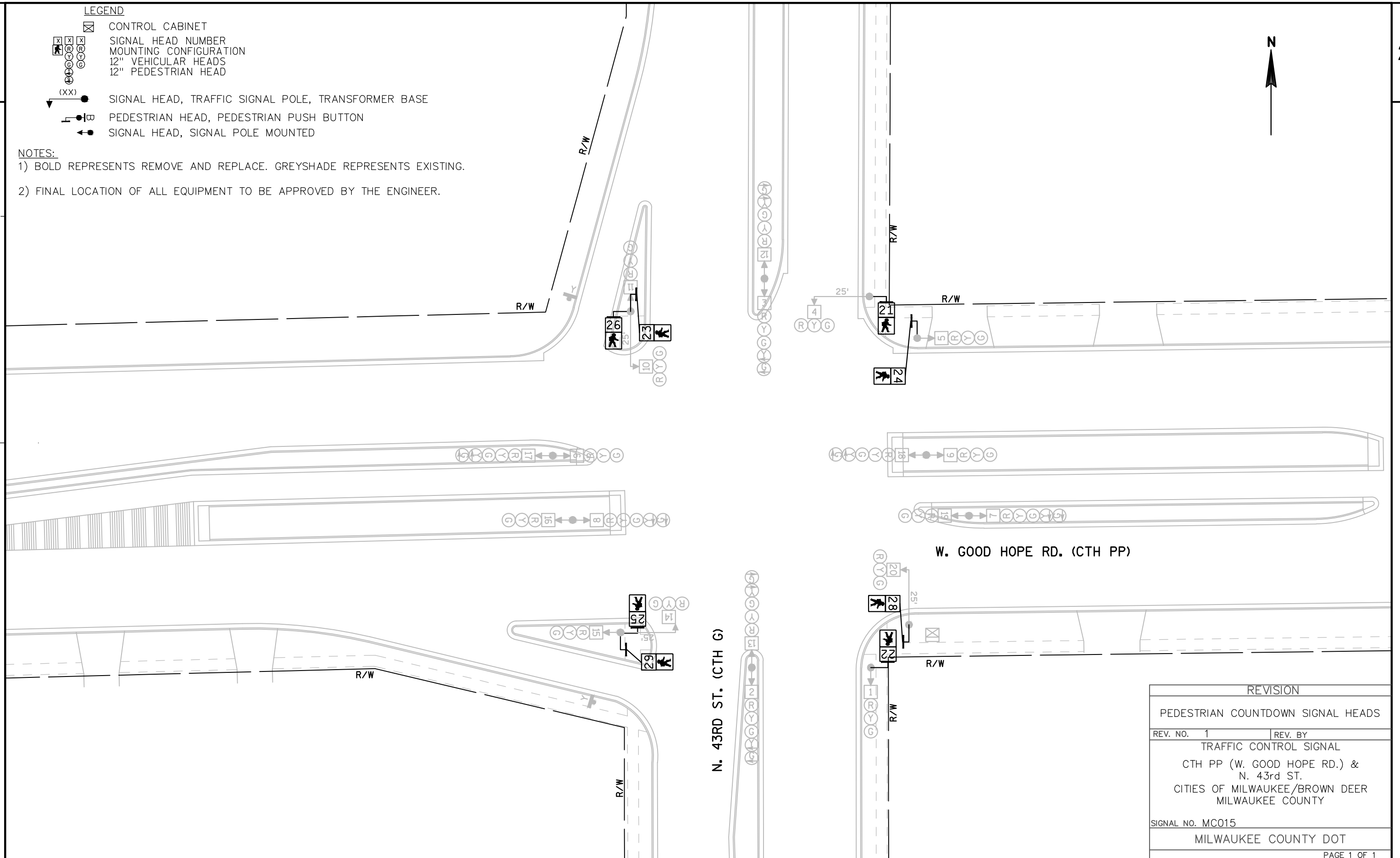
E

LEGEND

- ☒ CONTROL CABINET
- ⊠ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ⊠ ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ⊠ ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

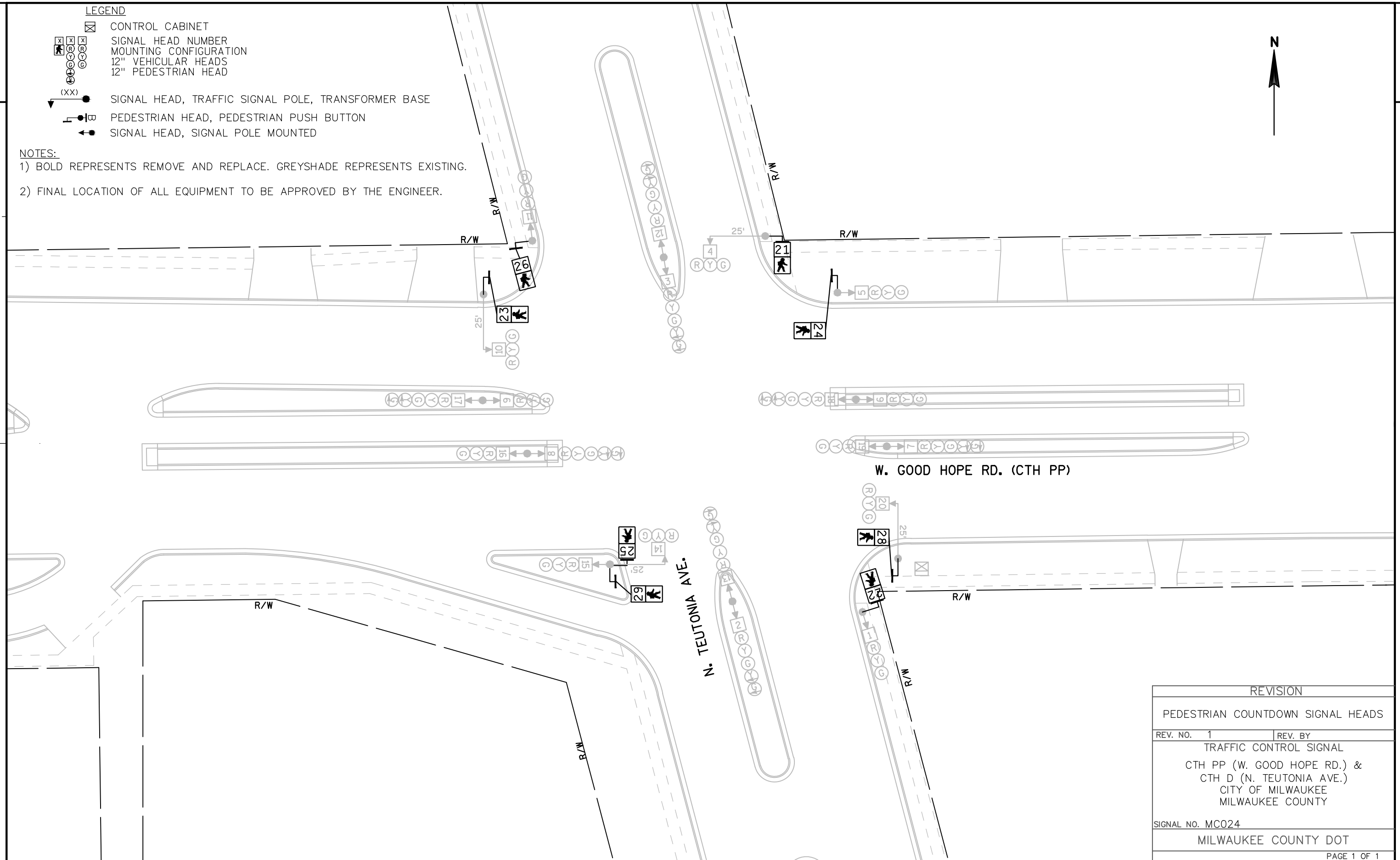
E

LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH PP (W. GOOD HOPE RD.) &	
CTH D (N. TEUTONIA AVE.)	
CITY OF MILWAUKEE	
MILWAUKEE COUNTY	
SIGNAL NO. MC024	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

R/W

R/W

R/W

W. PARKVIEW RD.

	R/W
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

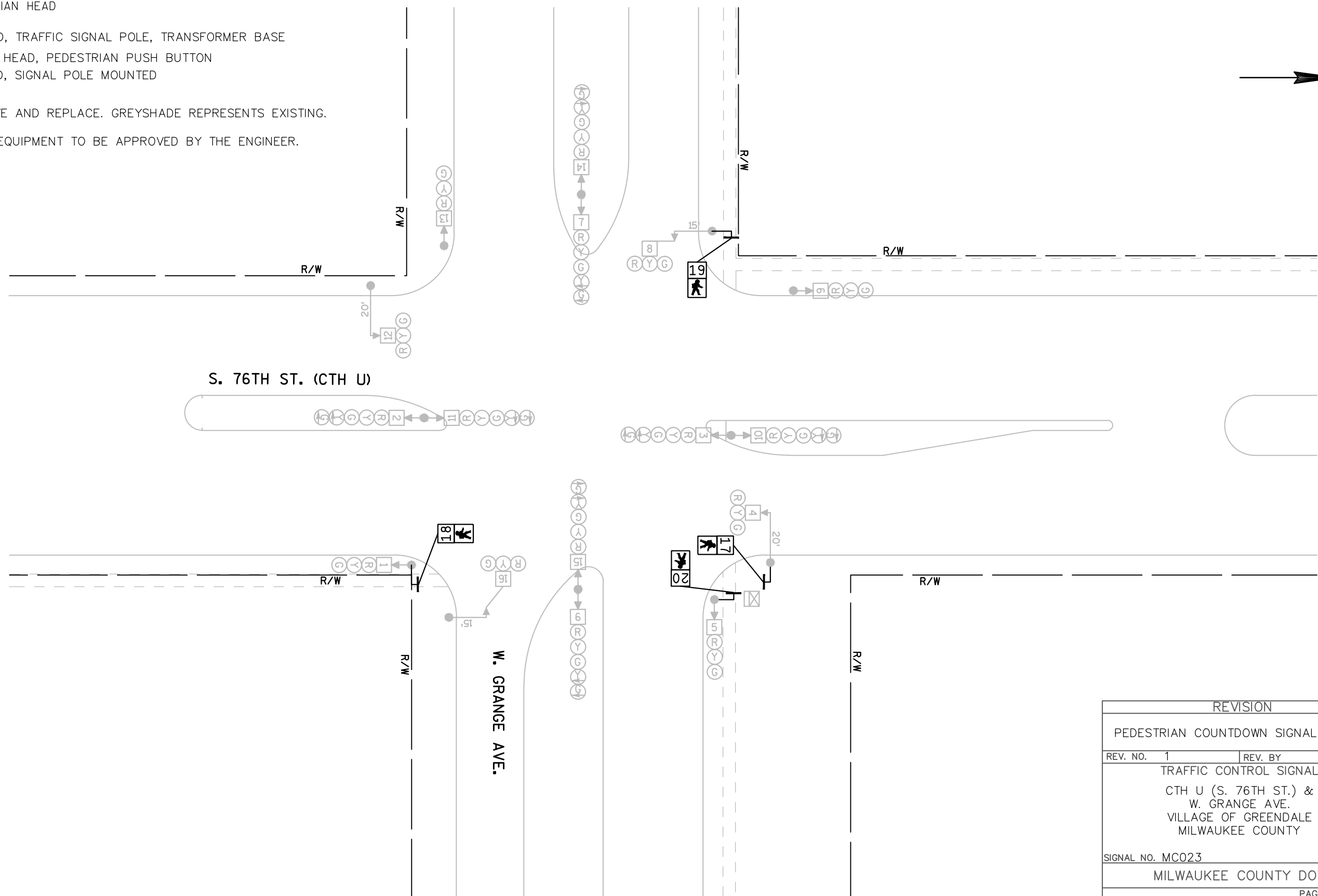
WISDOT/CADDS SHEET 42

LEGEND

- ☒ CONTROL CABINET
- ⓧⓧⓧ SIGNAL HEAD NUMBER
- ⓧⓧⓧ MOUNTING CONFIGURATION
- ⓧ 12" VEHICULAR HEADS
- ⓧ 12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ⓧⓧⓧ PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ⓧⓧⓧ SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



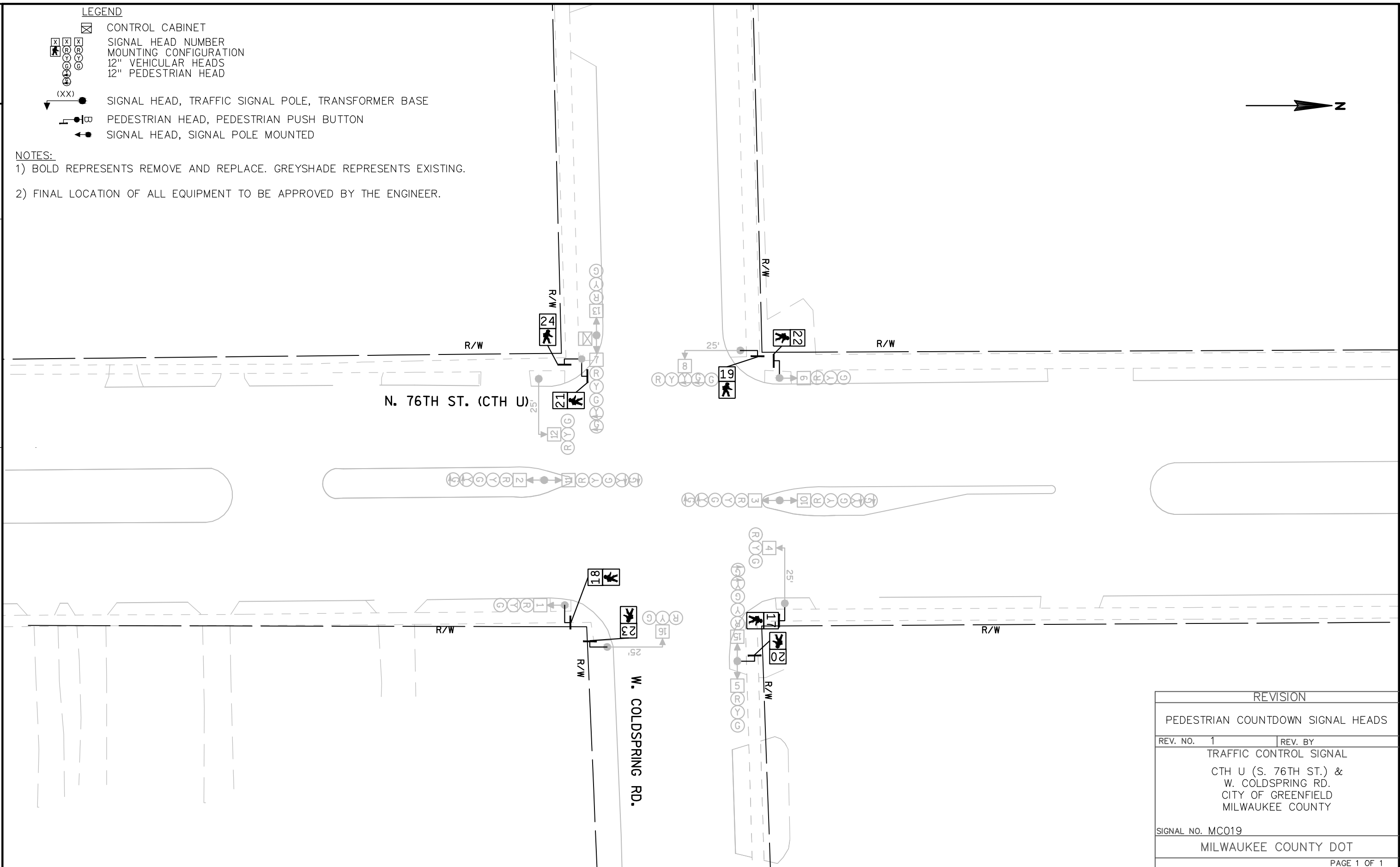
REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH U (S. 76TH ST.) & W. GRANGE AVE. VILLAGE OF GREENDALE MILWAUKEE COUNTY	
SIGNAL NO. MC023	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH U (S. 76TH ST.) & W. COLDSRING RD. CITY OF GREENFIELD MILWAUKEE COUNTY	
SIGNAL NO. MC019	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

2

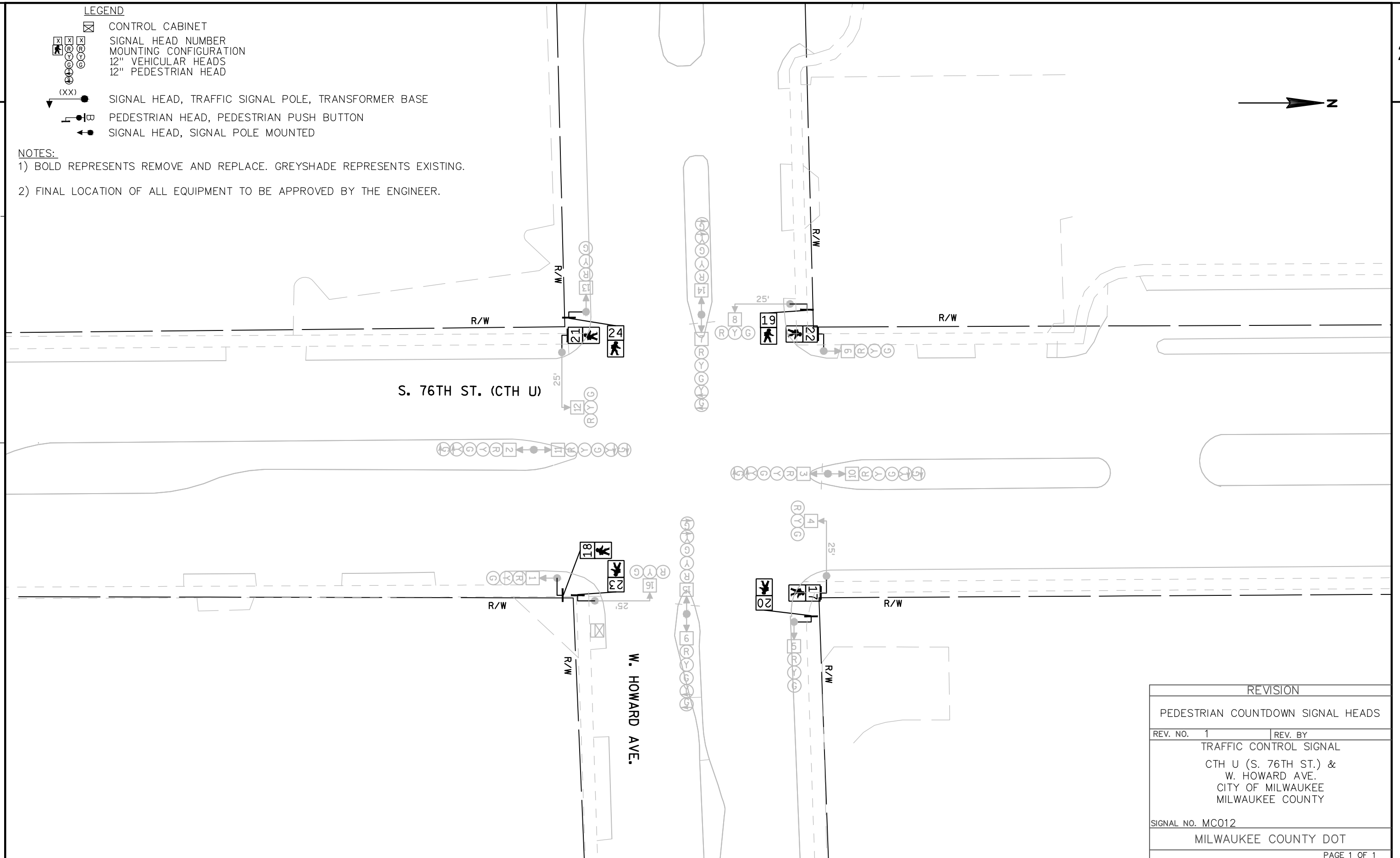
2

LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY
TRAFFIC CONTROL SIGNAL
CTH U (S. 76TH ST.) &
W. HOWARD AVE.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. MC012

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

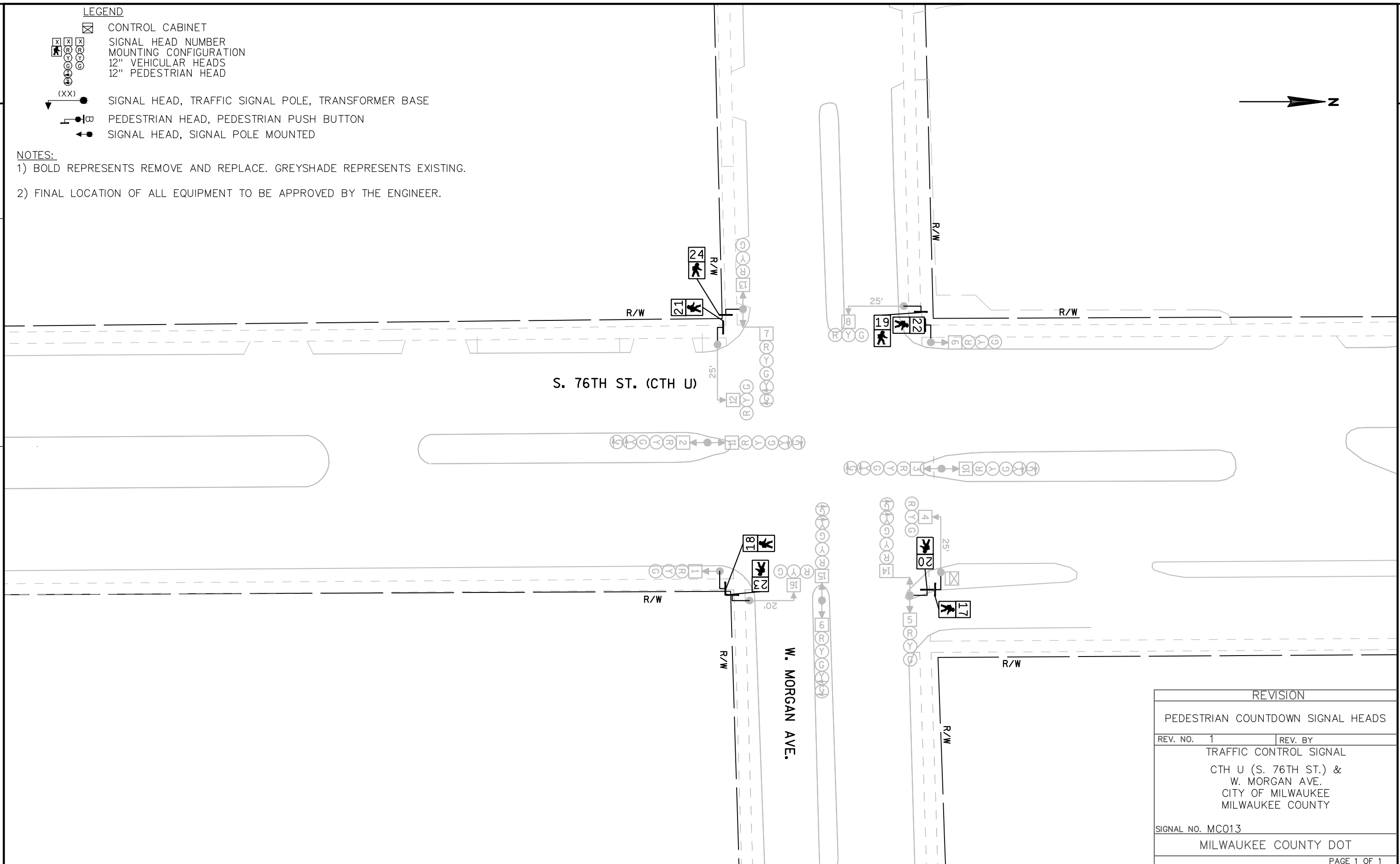
E

LEGEND

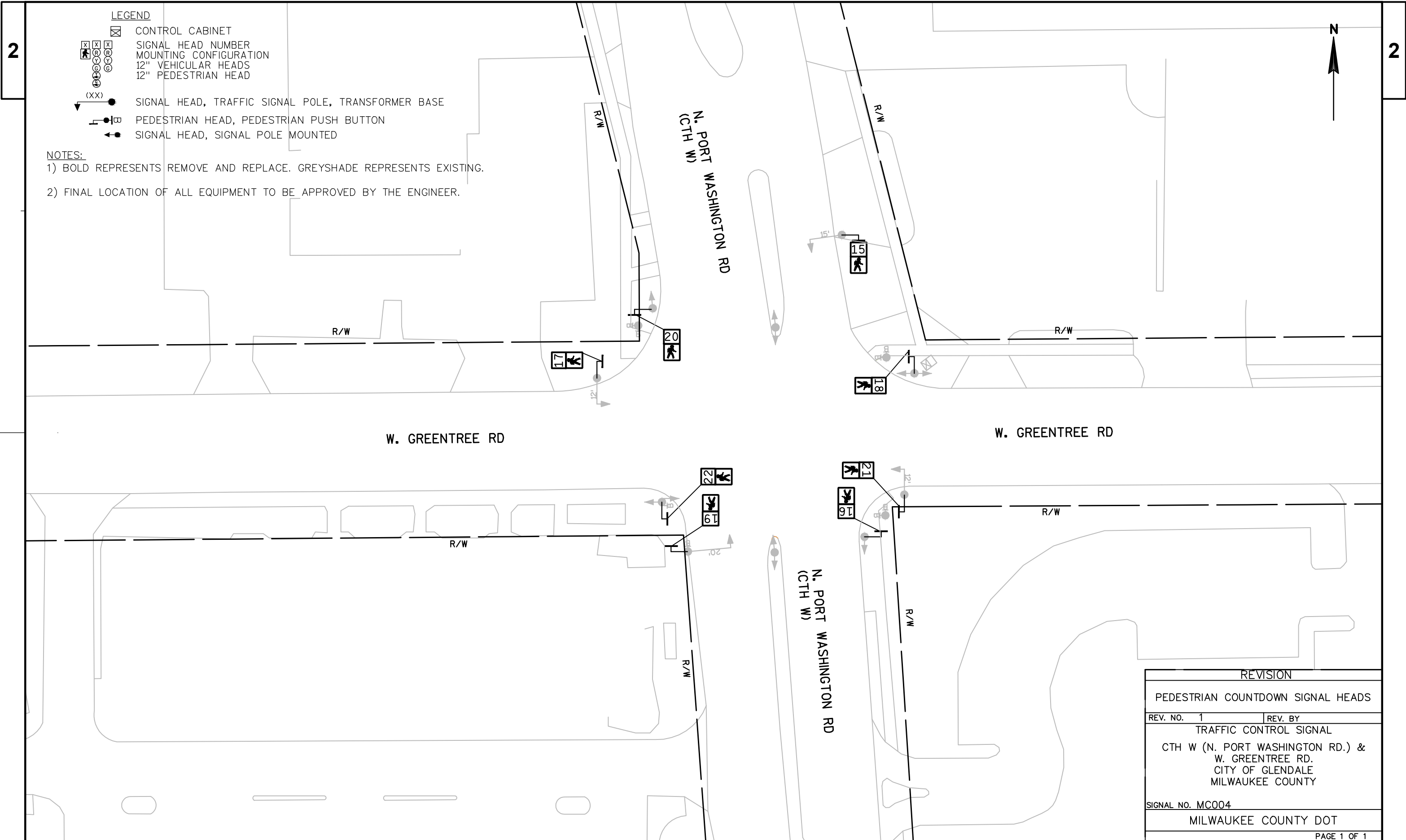
- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

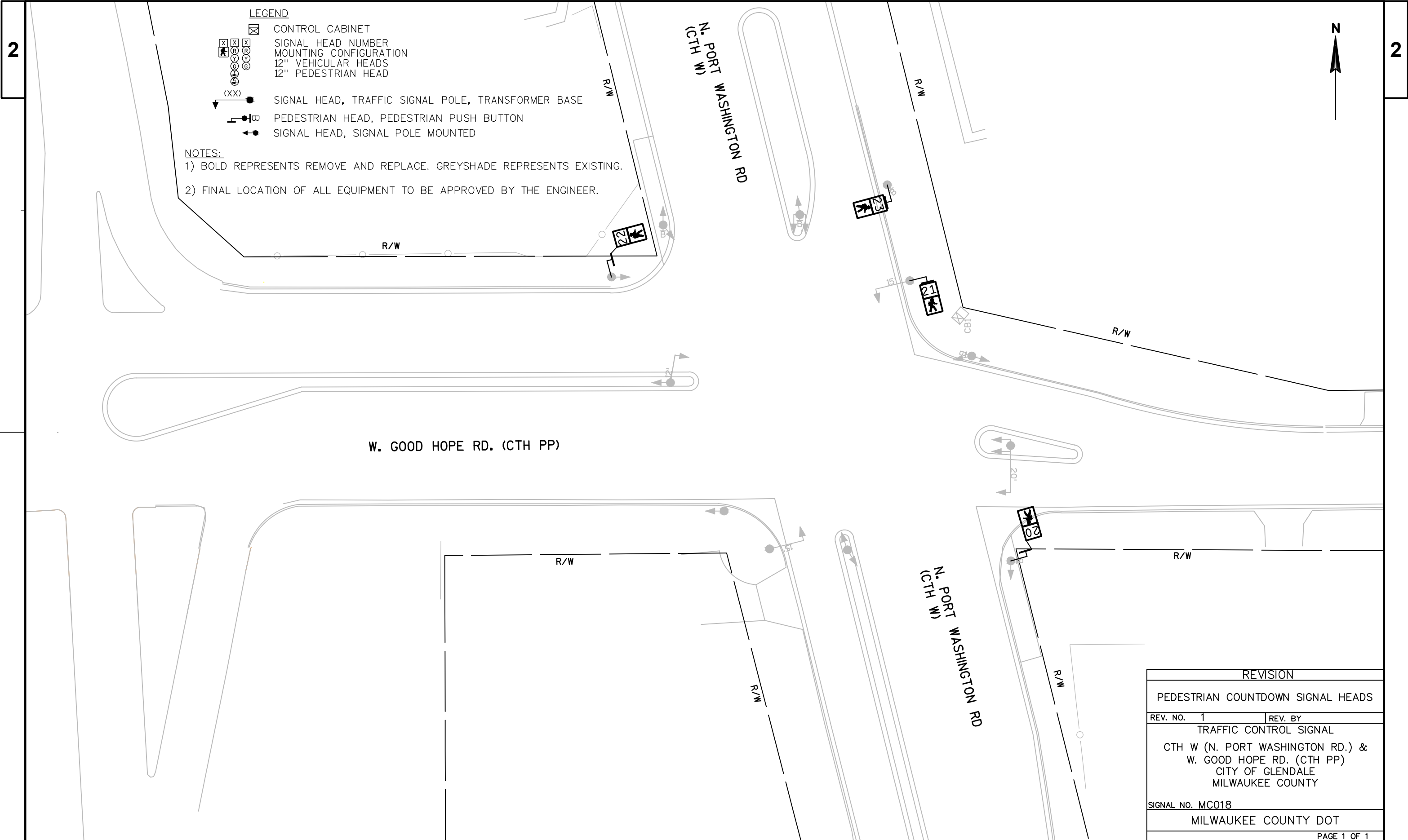
- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH U (S. 76TH ST.) & W. MORGAN AVE. CITY OF MILWAUKEE MILWAUKEE COUNTY	
SIGNAL NO. MC013	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH W (N. PORT WASHINGTON RD.) & W. GREENTREE RD. CITY OF GLENDALE MILWAUKEE COUNTY	
SIGNAL NO. MC004	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	



LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
 - 12" VEHICULAR HEADS
 - 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO.	1	REV. BY
TRAFFIC CONTROL SIGNAL		
CTH W (N. PORT WASHINGTON RD.) & W. GOOD HOPE RD. (CTH PP)		
CITY OF GLENDALE		
MILWAUKEE COUNTY		
SIGNAL NO. MC018		
MILWAUKEE COUNTY DOT		
PAGE 1 OF 1		

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

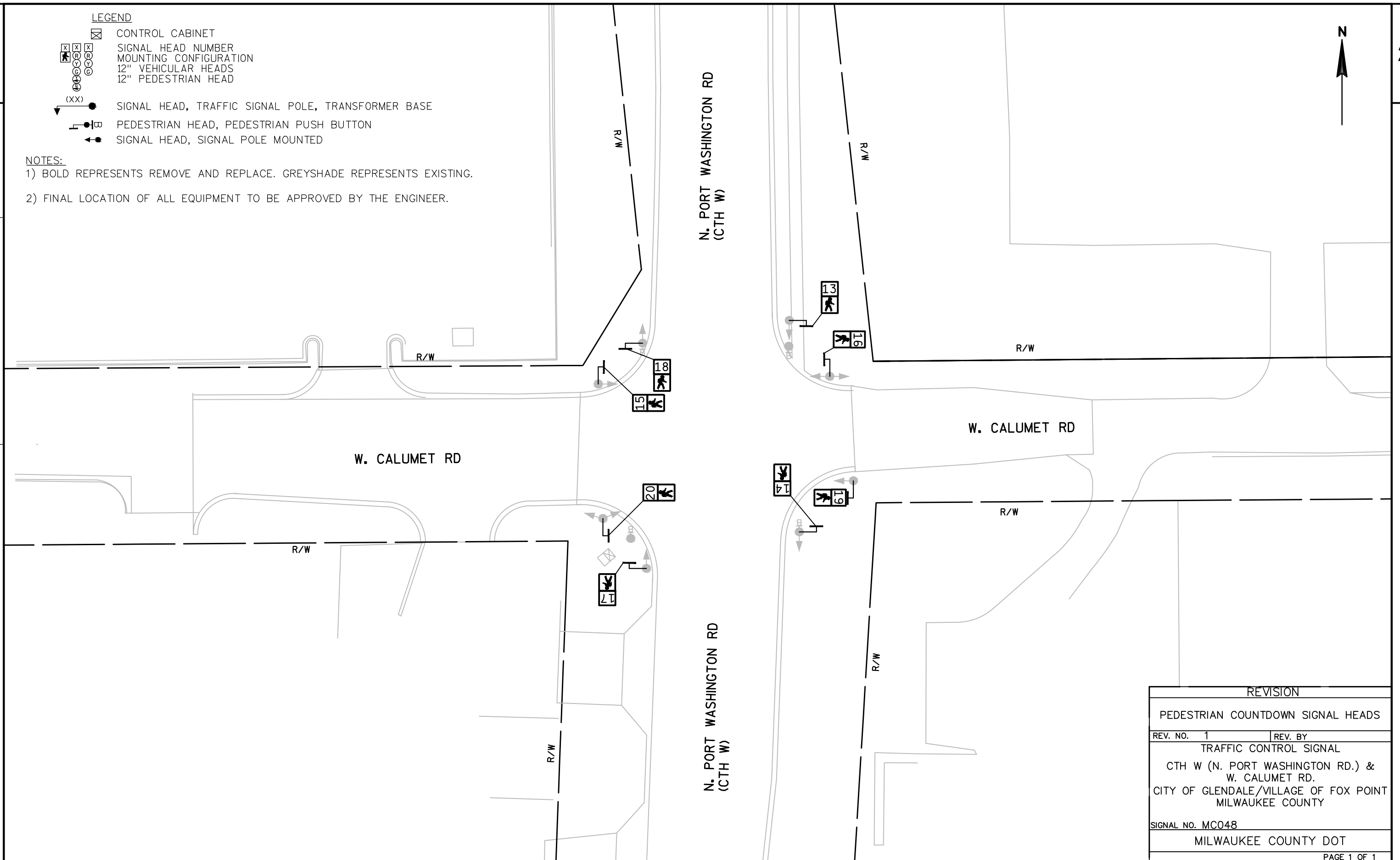
E

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[A][R][V][G][Y][O] MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
[P] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
[S] SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH W (N. PORT WASHINGTON RD.) &
W. CALUMET RD.
CITY OF GLENDALE/VILLAGE OF FOX POINT
MILWAUKEE COUNTY

SIGNAL NO. MC048

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

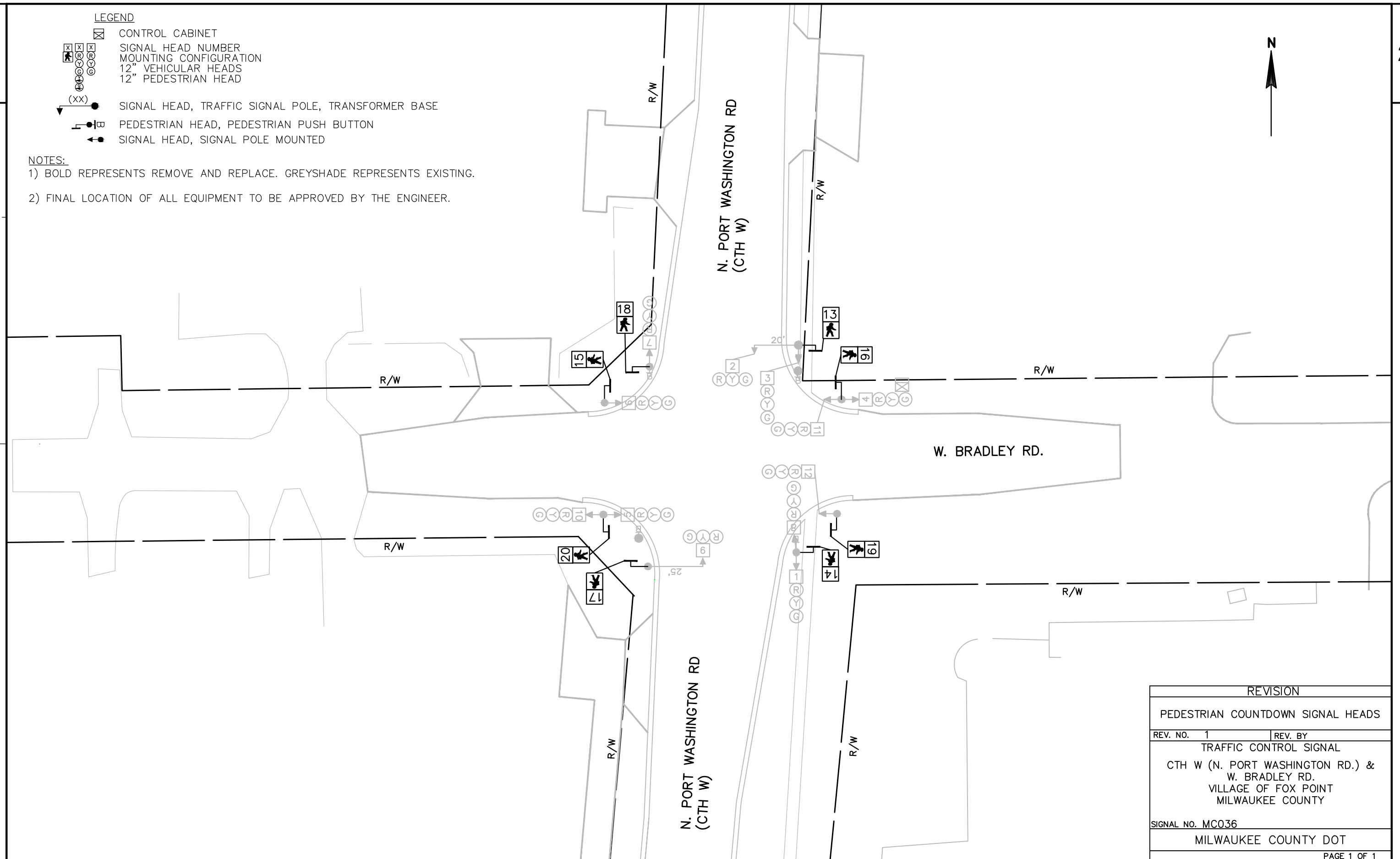
E

LEGEND

- ☒ CONTROL CABINET
[X][X][X]
[A][R][R]
[V][Y][G]
[G]
[G]
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
[P] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
[P] SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH W (N. PORT WASHINGTON RD.) &
W. BRADLEY RD.
VILLAGE OF FOX POINT
MILWAUKEE COUNTY

SIGNAL NO. MC036

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

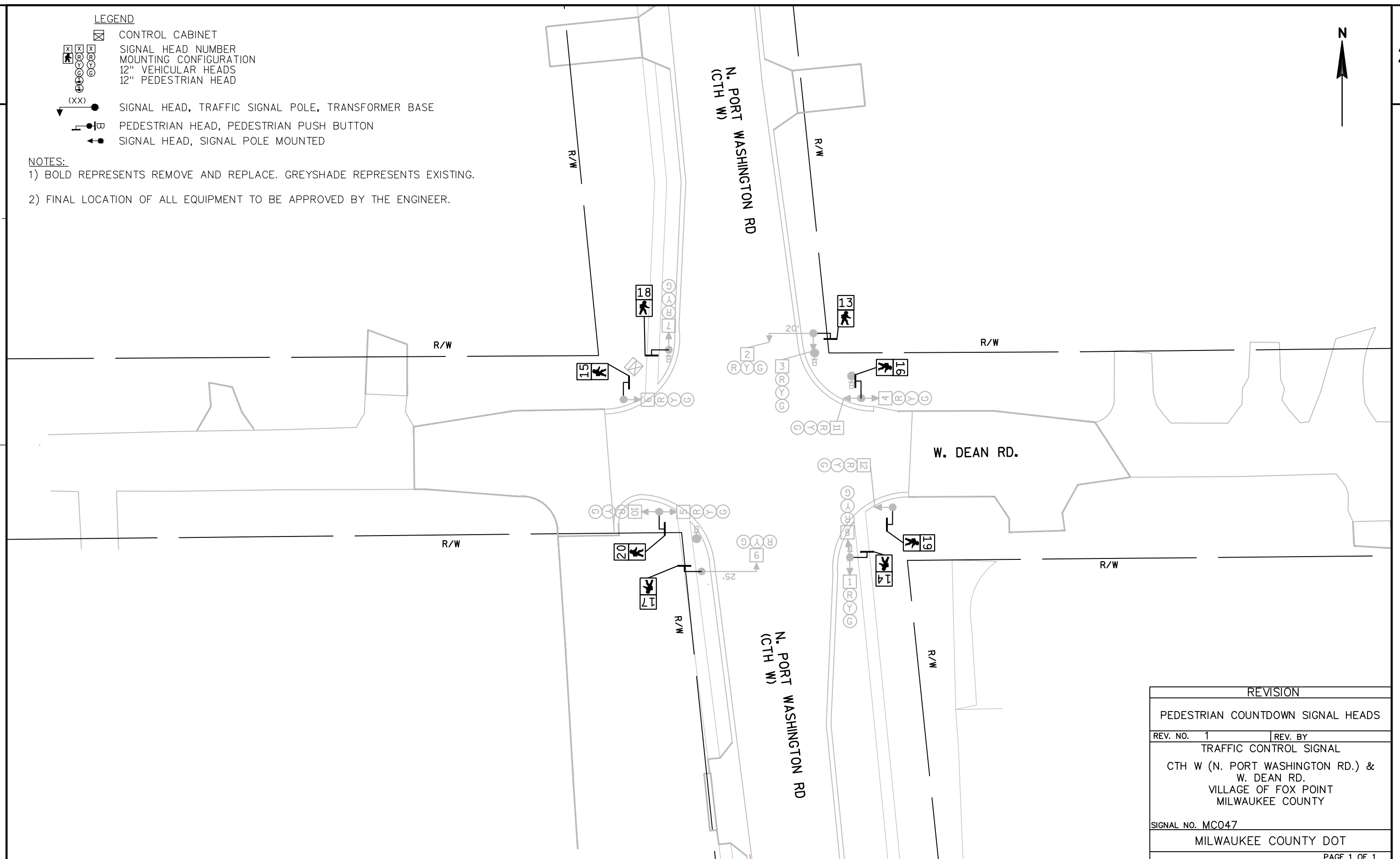
E

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[A][R][Y][G] MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
[P] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
[S] SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH W (N. PORT WASHINGTON RD.) &
W. DEAN RD.
VILLAGE OF FOX POINT
MILWAUKEE COUNTY

SIGNAL NO. MC047

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

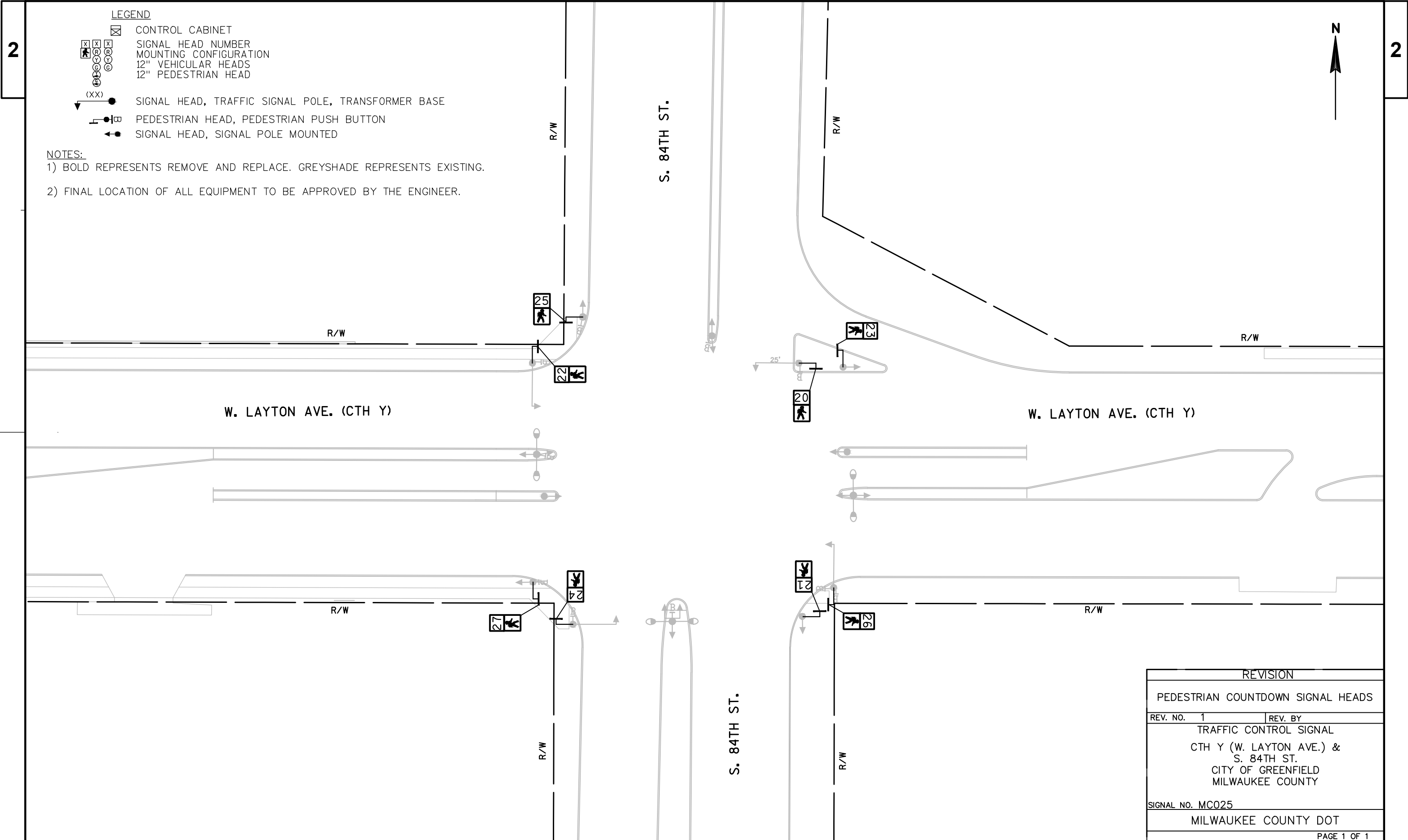
2



S. 116TH ST.



PROJECT NO: 2967-16-70	HWY: VARIOUS LOCATIONS	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET	E
------------------------	------------------------	-------------------	---------------------	-------	----------



LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO.	1	REV. BY
TRAFFIC CONTROL SIGNAL		
CTH Y (W. LAYTON AVE.) &		
S. 84TH ST.		
CITY OF GREENFIELD		
MILWAUKEE COUNTY		
SIGNAL NO. MC025		
MILWAUKEE COUNTY DOT		
PAGE 1 OF 1		

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

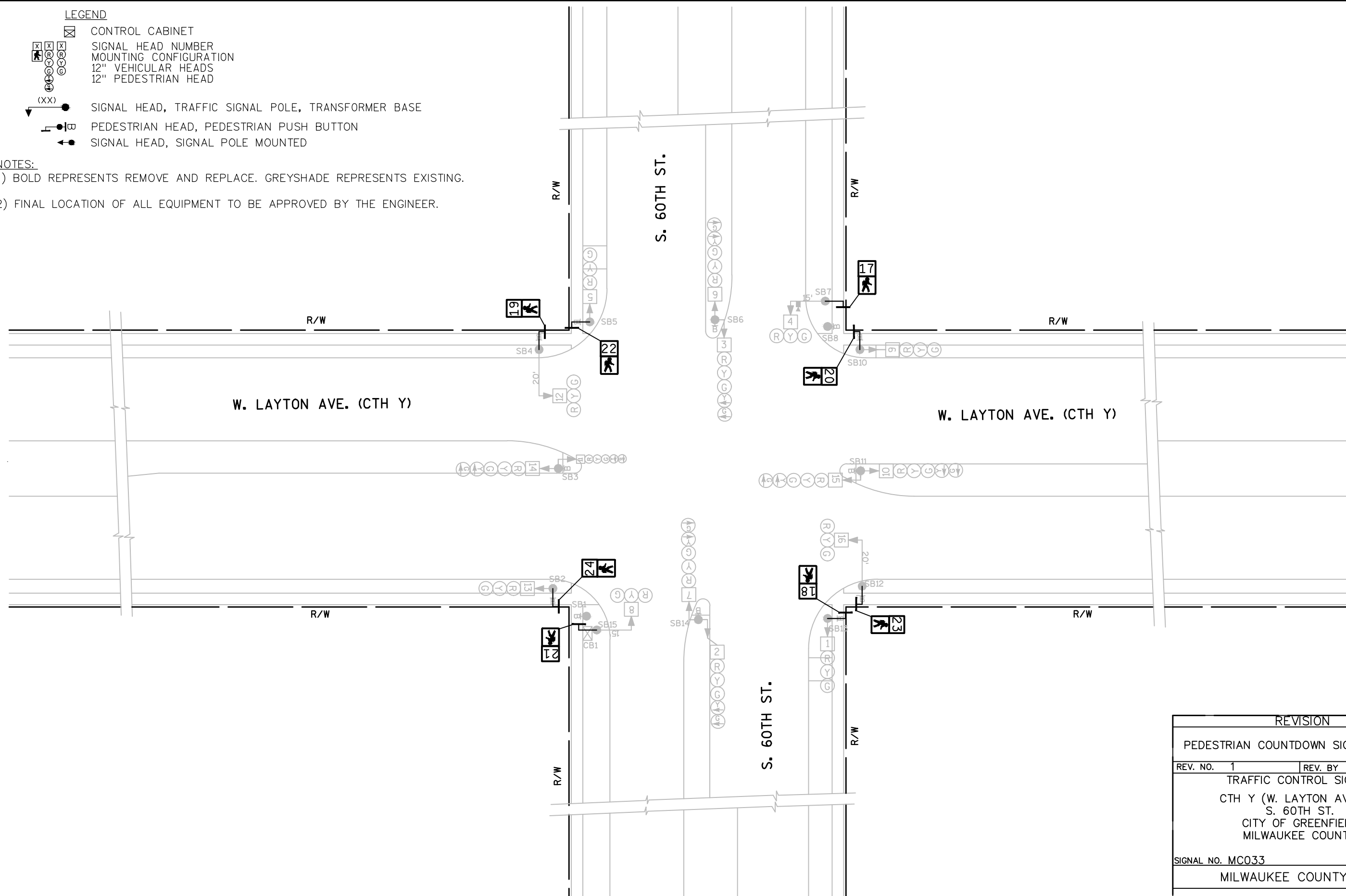


LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[A][R][Y][G] MOUNTING CONFIGURATION
[12] 12" VEHICULAR HEADS
[12] 12" PEDESTRIAN HEAD
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
[P] PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
[P] SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

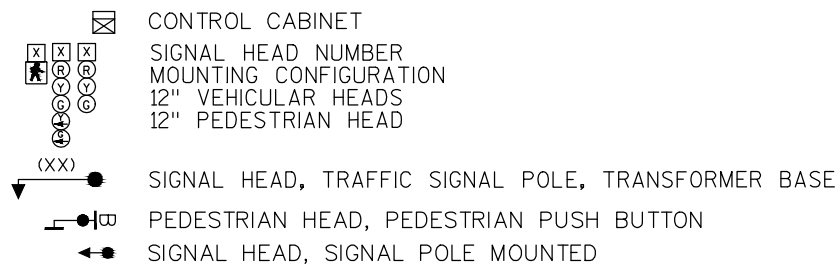
TRAFFIC CONTROL SIGNAL
CTH Y (W. LAYTON AVE.) &
S. 60TH ST.
CITY OF GREENFIELD
MILWAUKEE COUNTY

SIGNAL NO. MC033

MILWAUKEE COUNTY DOT

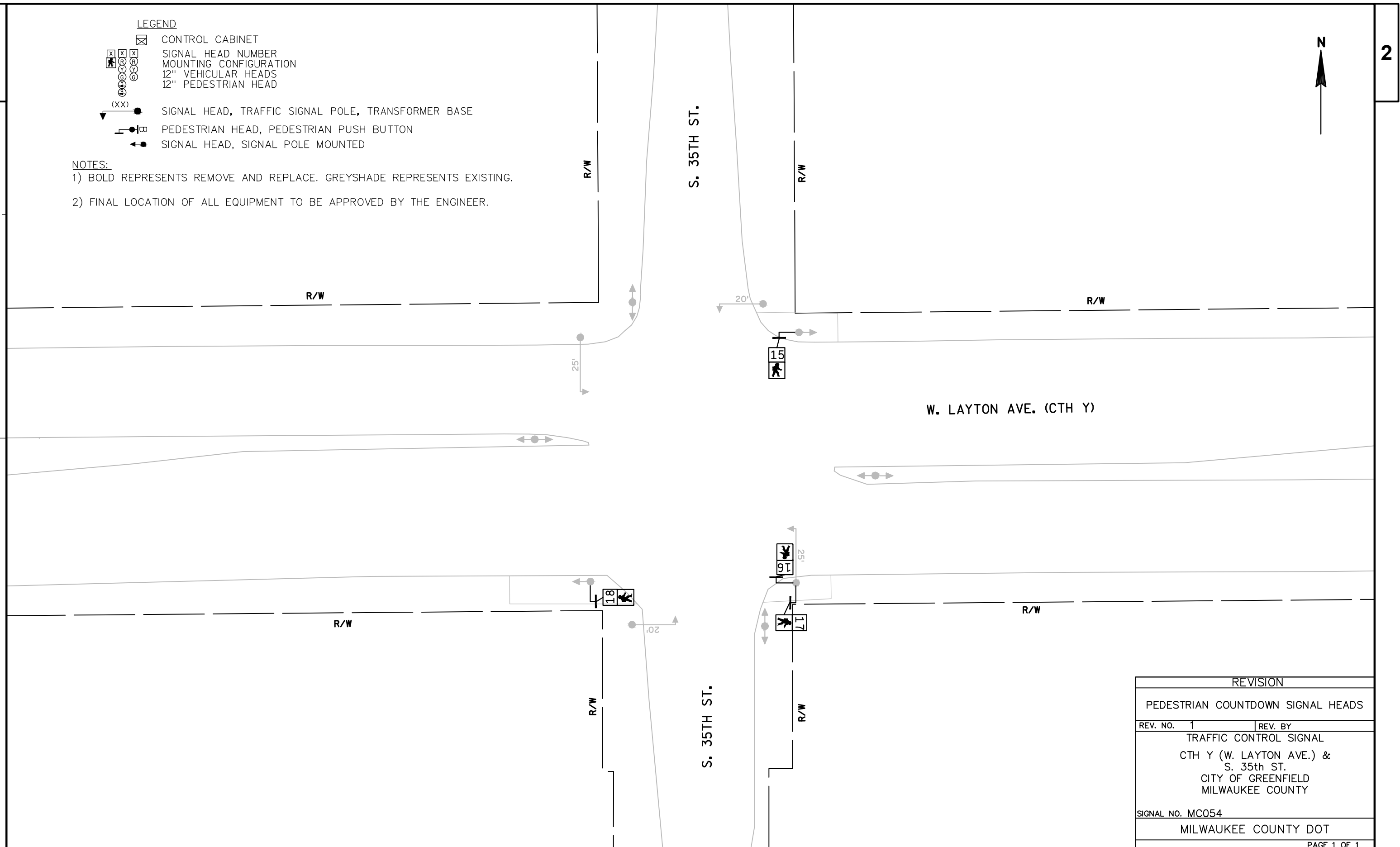
PAGE 1 OF 1

LEGEND



NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH Y (W. LAYTON AVE.) &
S. 35th ST.
CITY OF GREENFIELD
MILWAUKEE COUNTY

SIGNAL NO. MC054

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

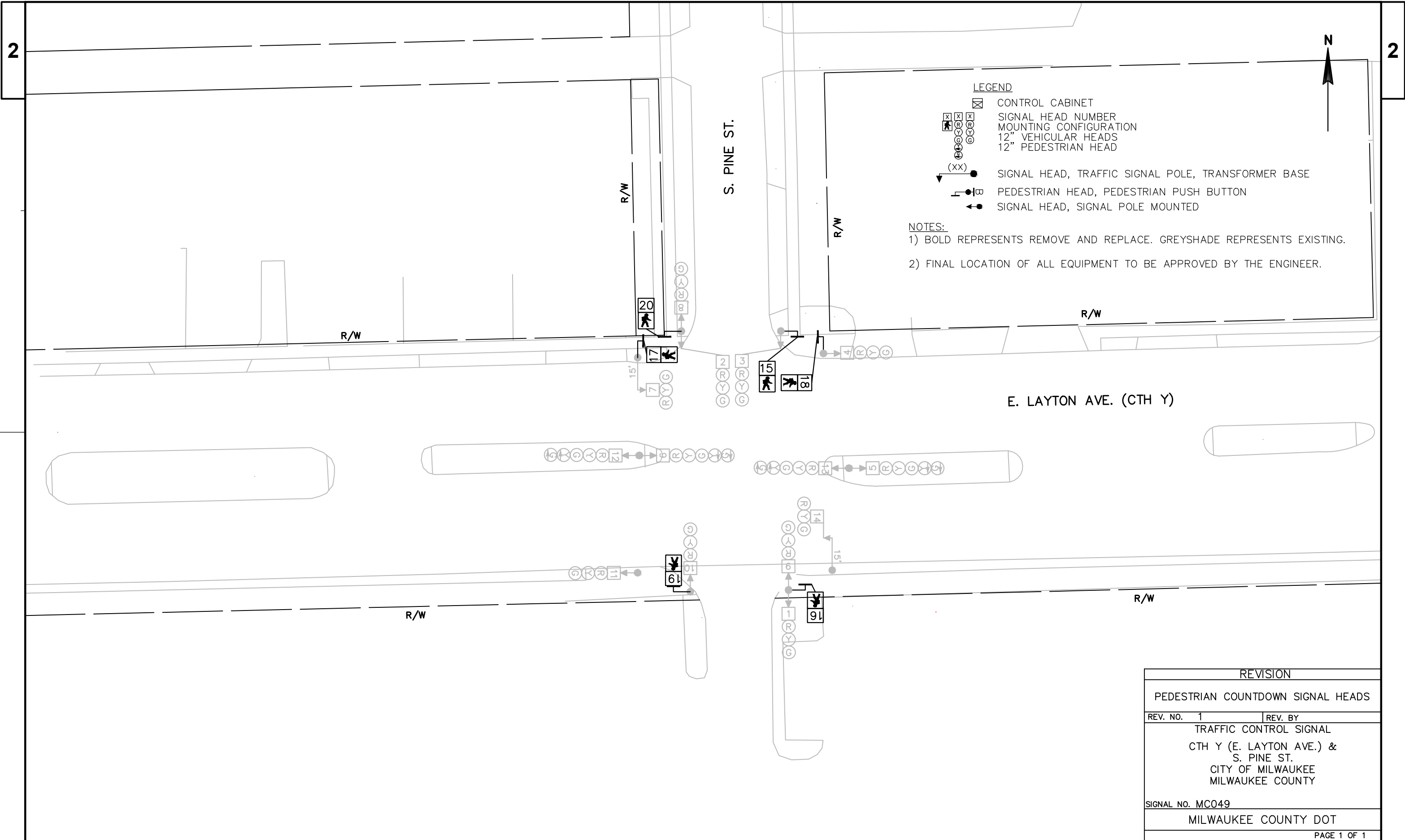
HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E



PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

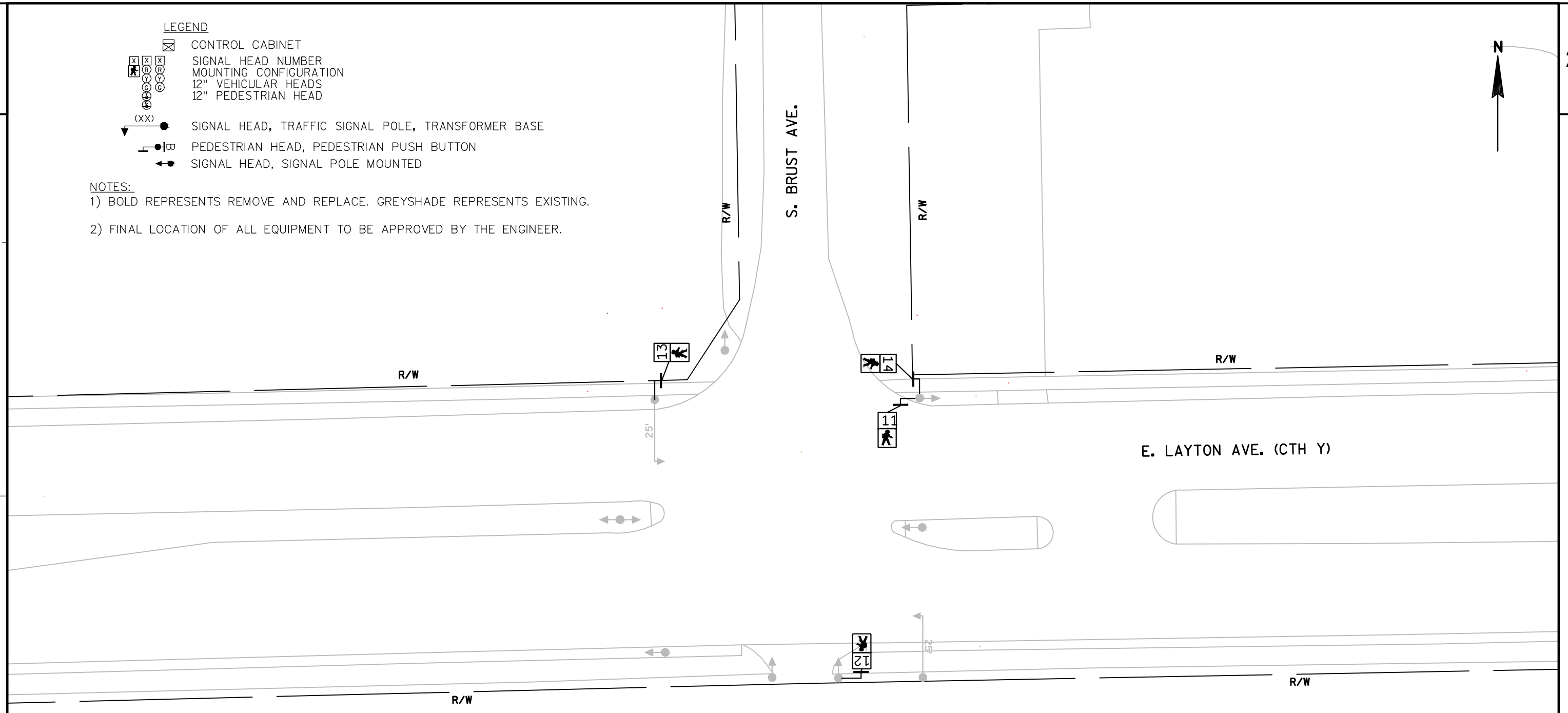
E

LEGEND

- ☒ CONTROL CABINET
- ⊠ SIGNAL HEAD NUMBER
MOUNTING CONFIGURATION
12" VEHICULAR HEADS
12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ←●→ SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO.	1	REV. BY
TRAFFIC CONTROL SIGNAL		
CTH Y (E. LAYTON AVE.) & S. BRUST AVE.		
CITIES OF MILWAUKEE/SAINT FRANCIS MILWAUKEE COUNTY		

SIGNAL NO. MC057

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

2

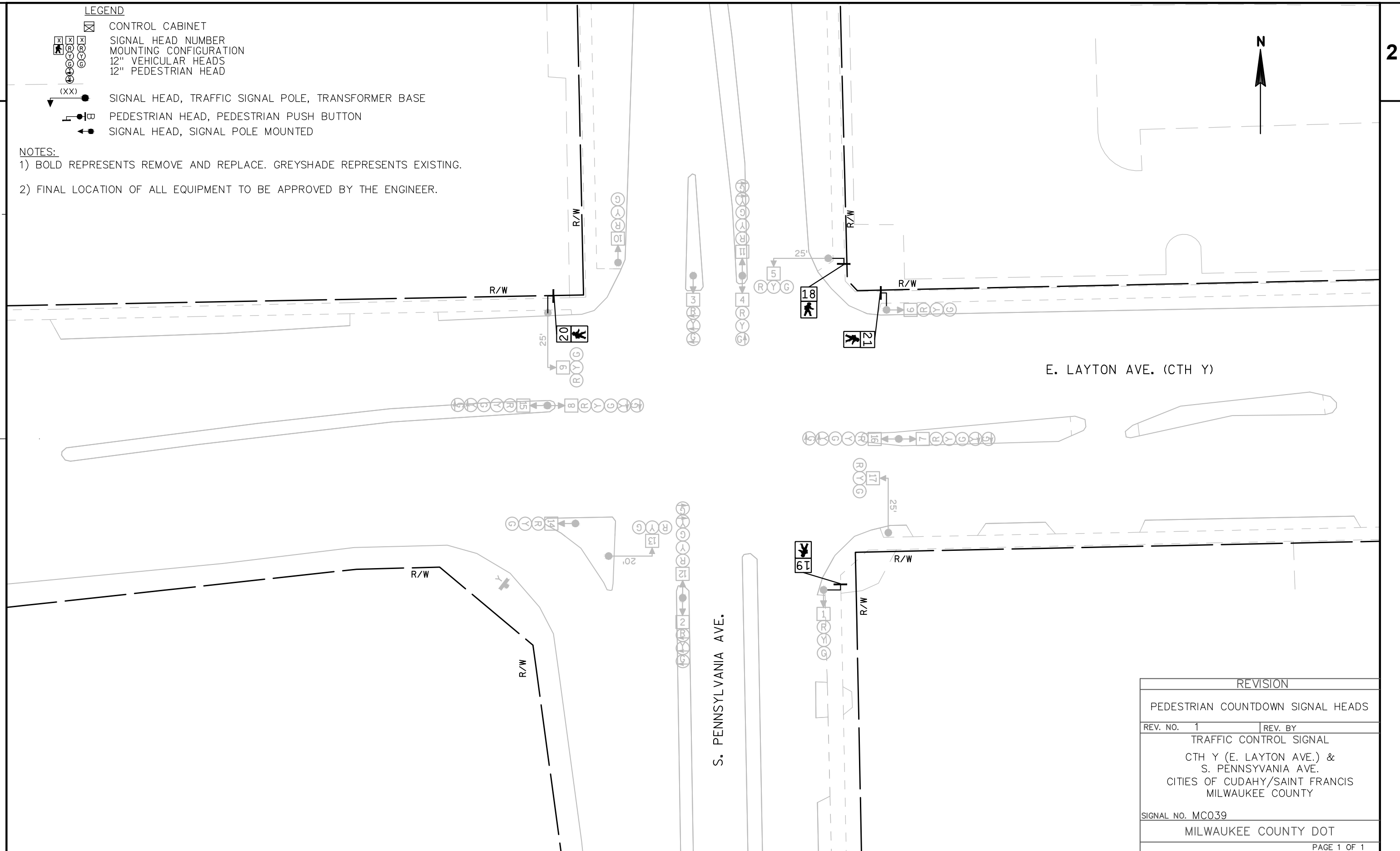
2

LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



E. LAYTON AVE. (CTH Y)

S. PENNSYLVANIA AVE.

REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY
TRAFFIC CONTROL SIGNAL
CTH Y (E. LAYTON AVE.) &
S. PENNSYLVANIA AVE.
CITIES OF CUDAHY/SAINT FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. MC039

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO:2967-16-70

HWY:VARIOUS LOCATIONS

COUNTY:MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

E

LEGEND

- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
←● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

S. WHITNALL AVE.
(WEST)

E. LAYTON AVE. (CTH Y)

REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL

CTH Y (E. LAYTON AVE.) &
S. WHITNALL AVE. (WEST)

CITIES OF CUDAHY/SAINT FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. MC046

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

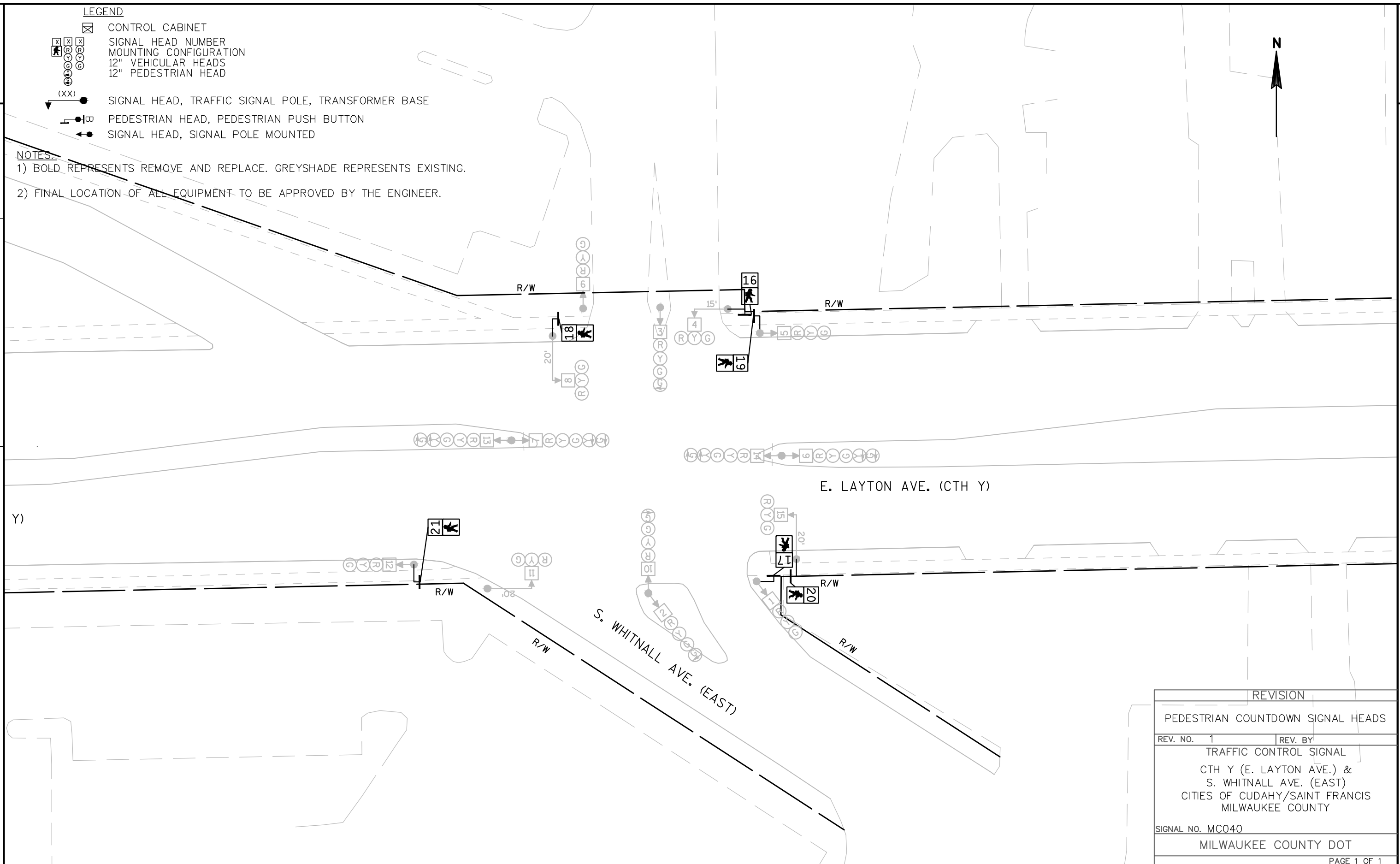
E

LEGEND

- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH Y (E. LAYTON AVE.) & S. WHITNALL AVE. (EAST)	
CITIES OF CUDAHY/SAINT FRANCIS MILWAUKEE COUNTY	
SIGNAL NO. MC040	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

2

LEGEND

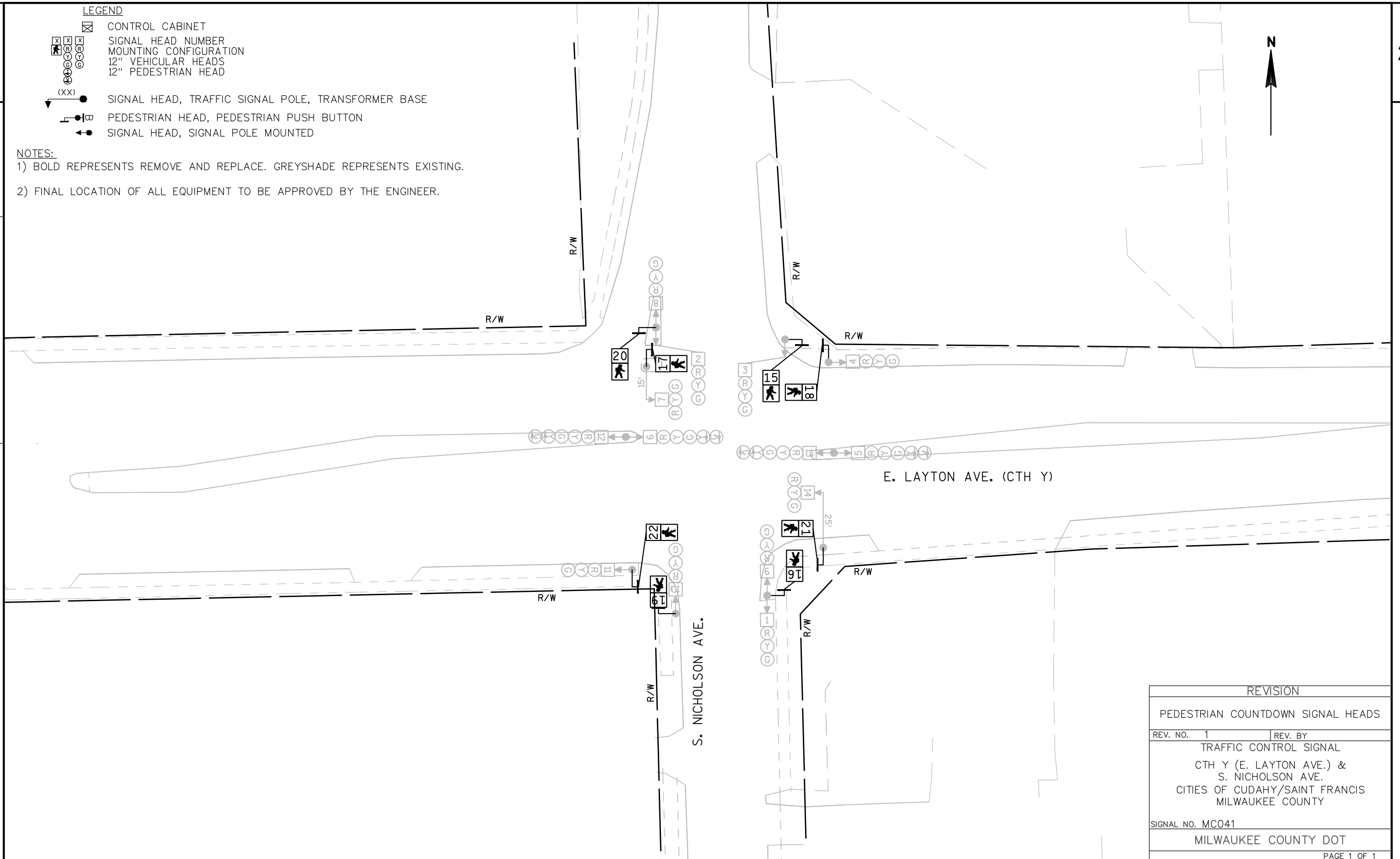
- ☒ CONTROL CABINET
[X][X][X] SIGNAL HEAD NUMBER
[R][Y][G] MOUNTING CONFIGURATION
○ 12" VEHICULAR HEADS
○ 12" PEDESTRIAN HEAD
(XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
—●— PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
←●— SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



2



REVISION

PEDESTRIAN COUNTDOWN SIGNAL HEADS

REV. NO. 1 REV. BY

TRAFFIC CONTROL SIGNAL
CTH Y (E. LAYTON AVE.) &
S. NICHOLSON AVE.
CITIES OF CUDAHY/SAINT FRANCIS
MILWAUKEE COUNTY

SIGNAL NO. MC041

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2967-16-70

HWY: VARIOUS LOCATIONS

COUNTY: MILWAUKEE

TRAFFIC SIGNAL PLAN

SHEET

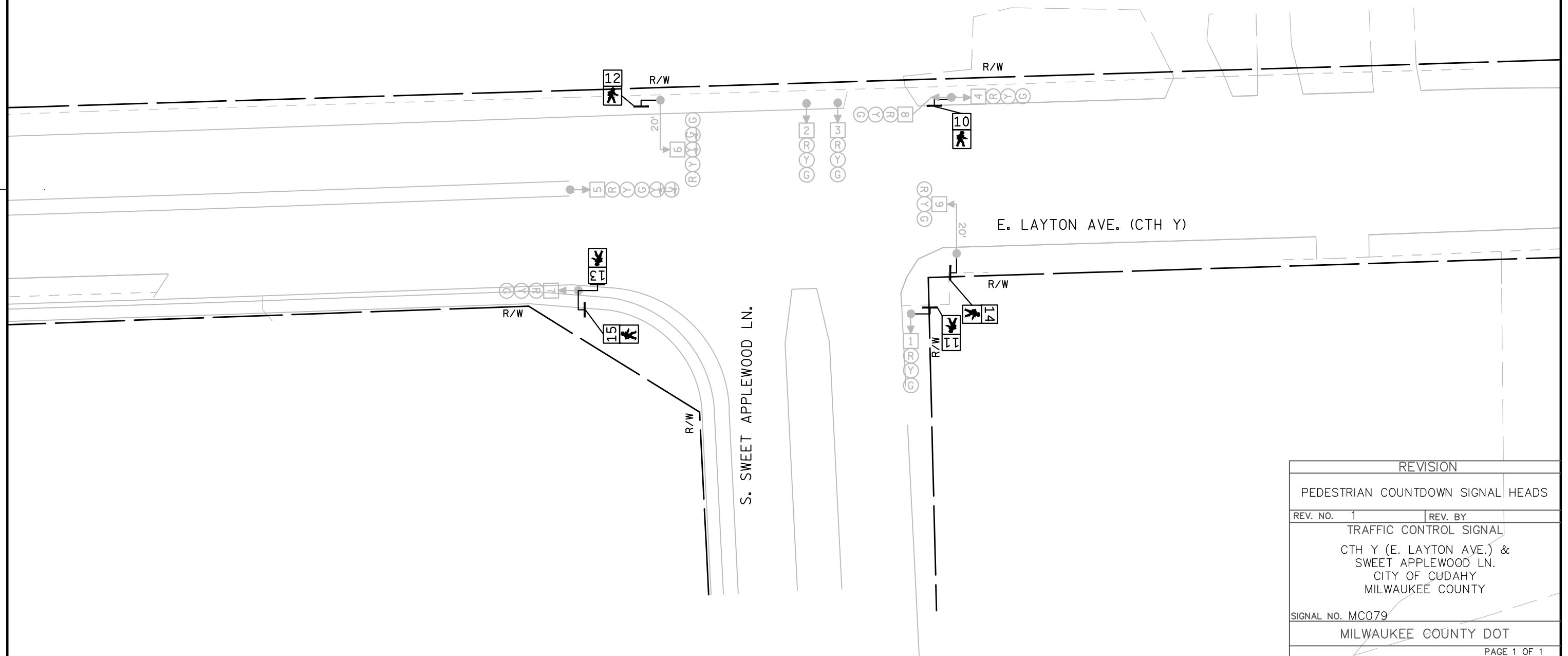
E

LEGEND

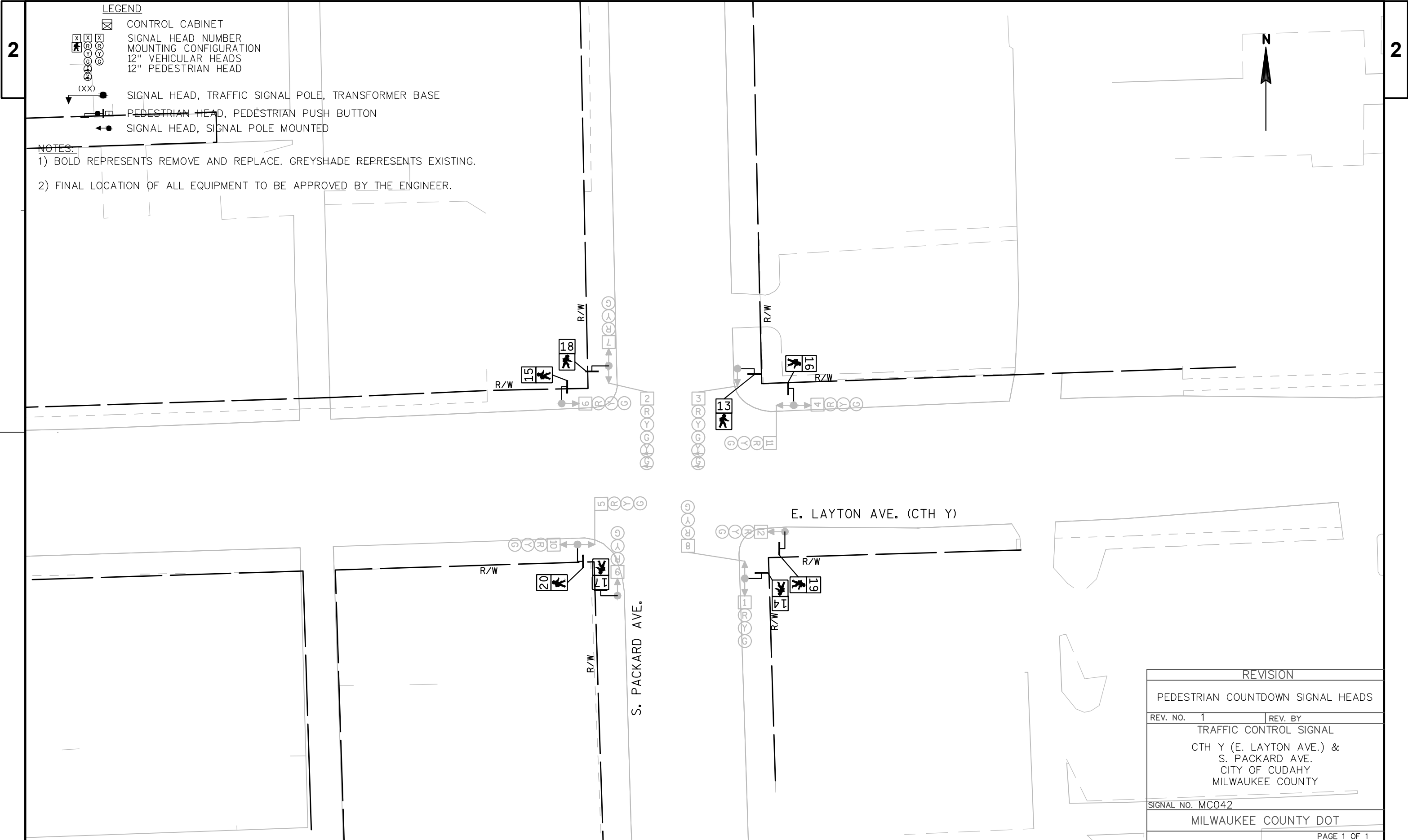
- CONTROL CABINET
- SIGNAL HEAD NUMBER
- MOUNTING CONFIGURATION
- 12" VEHICULAR HEADS
- 12" PEDESTRIAN HEAD
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

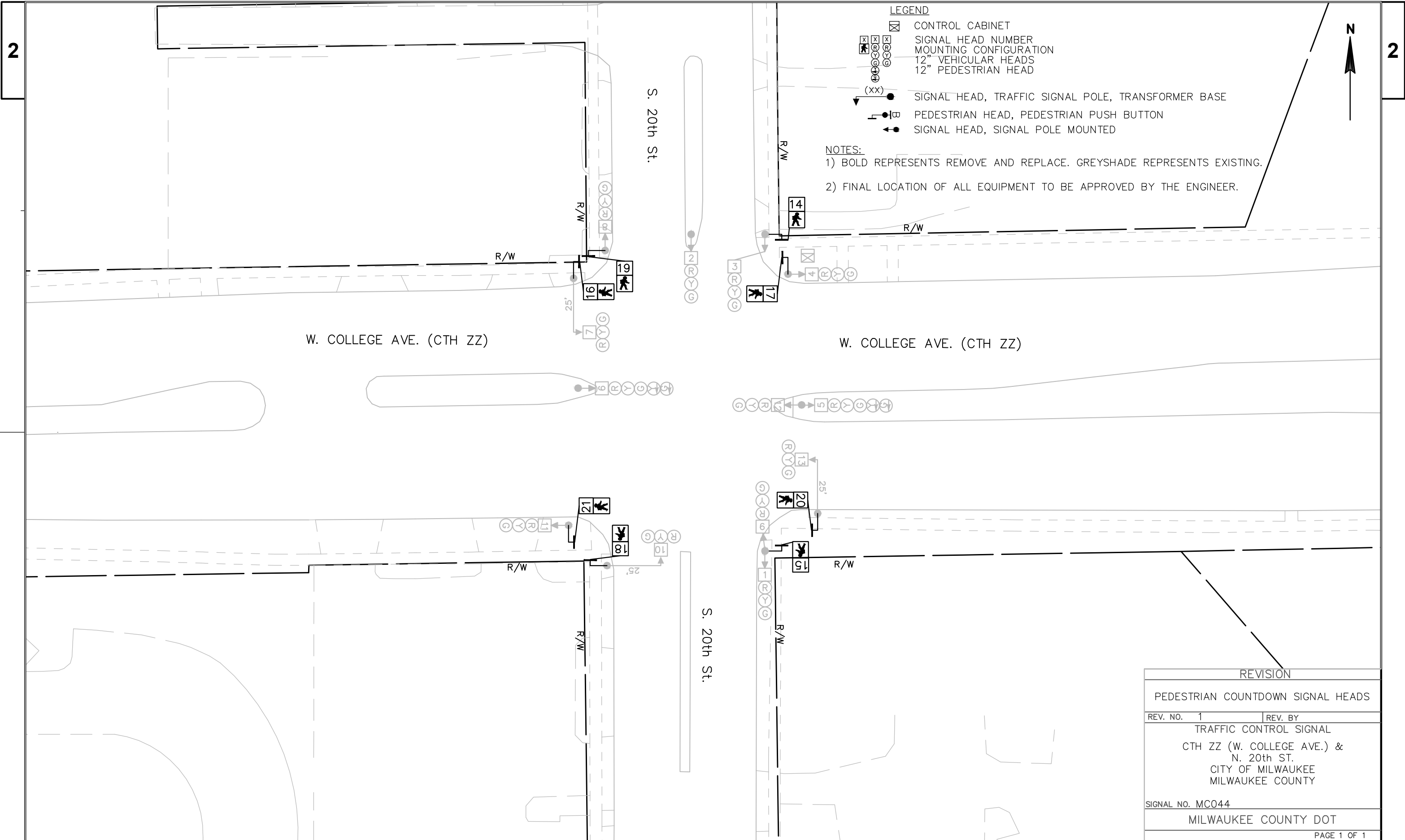
- 1) BOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.
- 2) FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.



REVISION		
PEDESTRIAN COUNTDOWN SIGNAL HEADS		
REV. NO. 1	REV. BY	
TRAFFIC CONTROL SIGNAL CTH Y (E. LAYTON AVE.) & SWEET APPLEWOOD LN. CITY OF CUDAHY MILWAUKEE COUNTY		
SIGNAL NO. MC079		
MILWAUKEE COUNTY DOT		
PAGE 1 OF 1		



REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH Y (E. LAYTON AVE.) & S. PACKARD AVE.	
CITY OF CUDAHY MILWAUKEE COUNTY	
SIGNAL NO. MC042	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	



2



LEGEND

- ☒ CONTROL CABINET
- ☒ SIGNAL HEAD NUMBER
- ☒ MOUNTING CONFIGURATION
- ☒ 12" VEHICULAR HEADS
- ☒ 12" PEDESTRIAN HEAD
- (XX) ● SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ☒ ● PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON
- ☒ ● SIGNAL HEAD, SIGNAL POLE MOUNTED

NOTES:

GOLD REPRESENTS REMOVE AND REPLACE. GREYSHADE REPRESENTS EXISTING.

FINAL LOCATION OF ALL EQUIPMENT TO BE APPROVED BY THE ENGINEER.

REVISION

REV. NO.	1	REV. BY
TRAFFIC CONTROL SIGNAL		
CTH ZZ (W. COLLEGE AVE.) & CTH V (S. 13th ST.)		
CITIES OF MILWAUKEE/OAK CREEK		
MILWAUKEE COUNTY		
SIGNAL NO. MC014		
MILWAUKEE COUNTY DOT		

PAGE 1 OF 1

REVISION	
PEDESTRIAN COUNTDOWN SIGNAL HEADS	
REV. NO. 1	REV. BY
TRAFFIC CONTROL SIGNAL	
CTH ZZ (W. COLLEGE AVE.) & CTH V (S. 13th ST.) CITIES OF MILWAUKEE/OAK CREEK MILWAUKEE COUNTY	
SIGNAL NO. MC014	
MILWAUKEE COUNTY DOT	
PAGE 1 OF 1	

DATE 11JUN14			E S T I M A T E O F Q U A N T I T I E S			
LINE						2967-16-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0010	658.0635	LED MODULES PEDESTRIAN COUNTDOWN TIMER	EACH	350.000	350.000	
		16-INCH				
0020	SPV.0060	SPECIAL 01. REMOVE AND REPLACE PEDESTRIAN SIGNAL HEADS YELLOW	EACH	314.000	314.000	
0030	SPV.0060	SPECIAL 02. REMOVE AND REPLACE PEDESTRIAN SIGNAL HEADS BLACK	EACH	36.000	36.000	
0040	SPV.0105	SPECIAL 01. TRAFFIC CONTROL	LS	1.000	1.000	

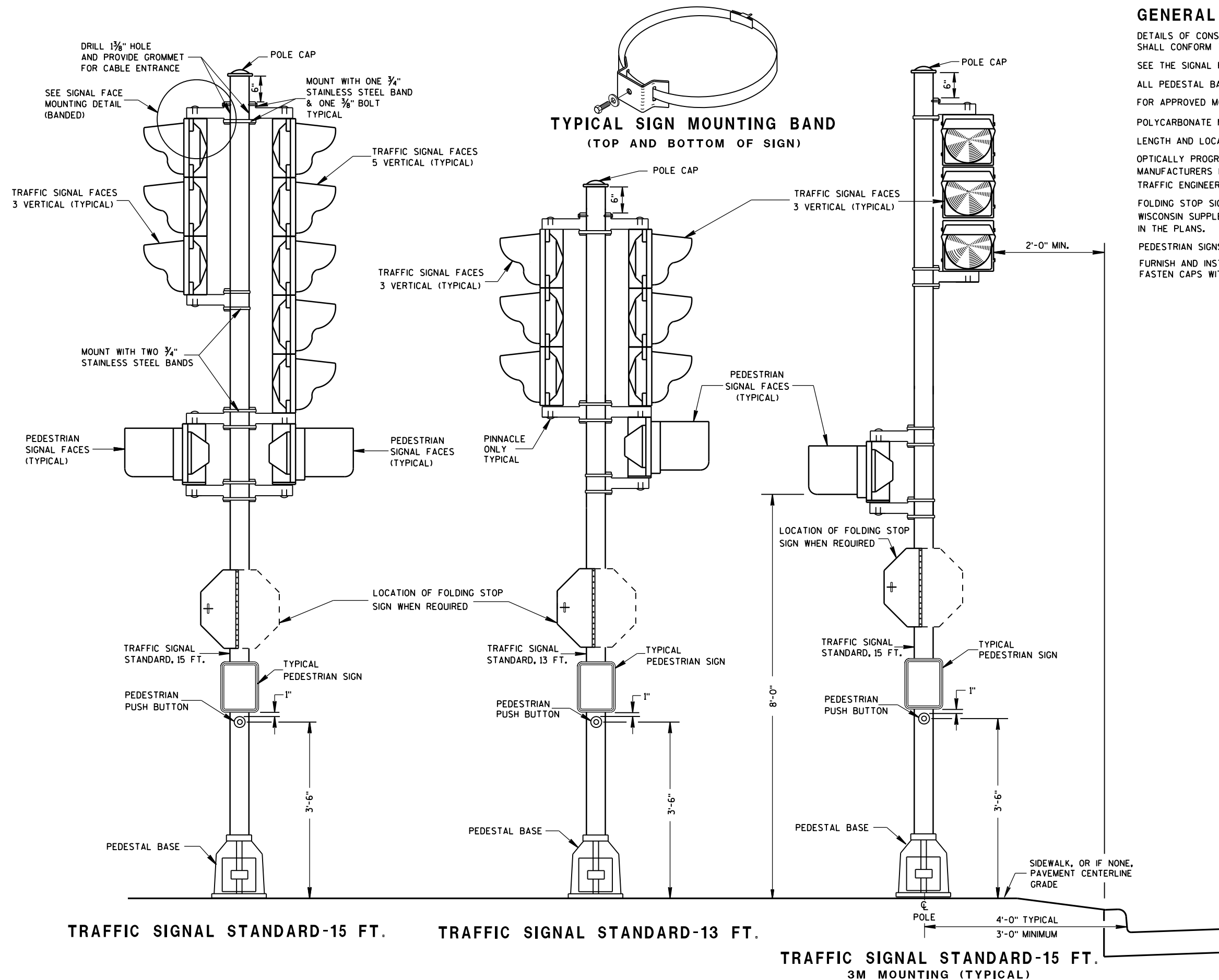
PEDESTRIAN SIGNAL HEAD ITEMS				
CATEGORY 0010	658.0635	SPV.0060.01	SPV.0060.02	
	LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH	REMOVE AND REPLACE PEDESTRIAN SIGNAL HEADS YELLOW	REMOVE AND REPLACE PEDESTRIAN SIGNAL HEADS BLACK	
INTERSECTION	EACH	EACH	EACH	NOTES
Rawson Ave. (CTH BB) & S. 76th St. (CTH U)	8	8		
Rawson Ave. (CTH BB) & S. 68th St.	6	6		
Rawson Ave. (CTH BB) & S. 51st St.	8	8		
Rawson Ave. (CTH BB) & S. 31st St.	6	6		
N. 43rd St. (CTH G) & W. Bradley Rd.	8	8		
N. Teutonia Ave. (CTH D) & W. Bradley Rd.	4	4		
W. Silver Spring Dr. (CTH E) & N. 107th St.	6	6		
W. Silver Spring Dr. (CTH E) & N. 103rd St.	8	8		
W. Silver Spring Dr. (CTH E) & N. 91st St.	8	8		
W. Hampton Ave. (CTH EE) & N. 124th St.	8	8		
W. Hampton Ave. (CTH EE) & N. 119th St.	8	8		
W. Hampton Ave. (CTH EE) & N. 107th St.	8	8		
S. 92nd St. (CTH N) & W. Howard Ave.	8		8	
S. 92nd St. (CTH N) & W. Morgan Ave.	8	8		
S. 92nd St. (CTH N) & W. Beloit Rd.	8	8		
W. Good Hope Rd. (CTH PP) & N. 99th St.	8	8		
W. Good Hope Rd. (CTH PP) & N. 91st St.	8	8		
W. Good Hope Rd. (CTH PP) & N. 86th St.	8	8		
W. Good Hope Rd. (CTH PP) & N. 60th St.	8	8		
W. Good Hope Rd. (CTH PP) & N. 43rd St. (CTH G)	8	8		
W. Good Hope Rd. (CTH PP) & N. Teutonia Ave.	8	8		
S. 76th St. (CTH U) & W. Parkview Rd.	8	8		
S. 76th St. (CTH U) & W. Grange Ave.	4		4	
S. 76th St. (CTH U) & W. Coldspring Rd.	8		8	
S. 76th St. (CTH U) & W. Howard Ave.	8	8		
S. 76th St. (CTH U) & W. Morgan Ave.	8	8		
N. Port Washington Rd. (CTH W) & W. Green Tree Rd.	8	8		
N. Port Washington Rd. (CTH W) & W. Good Hope Rd. (CTH PP)	4	4		
N. Port Washington Rd. (CTH W) & W. Calumet Rd.	8	8		
N. Port Washington Rd. (CTH W) & W. Bradley Rd.	8	8		
N. Port Washington Rd. (CTH W) & W. Dean Rd.	8	8		
N. Port Washington Rd. (CTH W) & E. Riverpoint	4	4		
W. Layton Ave. (CTH Y) & S. 116th St.	8	8		
W. Layton Ave. (CTH Y) & S. 92nd St.	8	8		
W. Layton Ave. (CTH Y) & S. 84th St.	8	8		
W. Layton Ave. (CTH Y) & S. 68th St.	8	8		
W. Layton Ave. (CTH Y) & S. 60th St.	8		8	
W. Layton Ave. (CTH Y) & S. 47th St.	8	8		
W. Layton Ave. (CTH Y) & S. 35th St.	4	4		
E. Layton Ave. (CTH Y) & S. Pine St.	6	6		
E. Layton Ave. (CTH Y) & S. Brust Ave.	4	4		
E. Layton Ave. (CTH Y) & S. Pennsylvania Ave.	4	4		
E. Layton Ave. (CTH Y) & S. Whitnall Ave. (West)	6	6		
E. Layton Ave. (CTH Y) & S. Whitnall Ave. (East)	6	6		
E. Layton Ave. (CTH Y) & S. Nicholson Ave.	8	8		
E. Layton Ave. (CTH Y) & Sweet Applewood La.	6	6		
E. Layton Ave. (CTH Y) & S. Packard Ave.	8		8	
W. College Ave. (CTH ZZ) & S. 20th St.	8	8		
W. College Ave. (CTH ZZ) & S. 13th St.	8	8		
PROJECT TOTAL:	350	314	36	

CATEGORY 0010

TRAFFIC CONTROL		
ITEM NUMBER	UNIT	QTY
SPV.0105.01	LS	1

Standard Detail Drawing List

09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

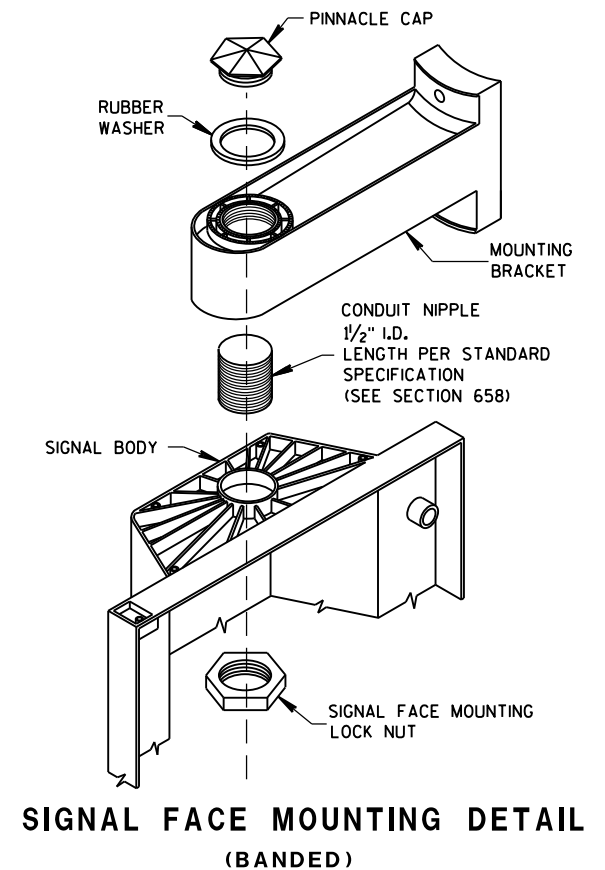
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) $\frac{1}{4}$ " X $\frac{3}{4}$ " - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



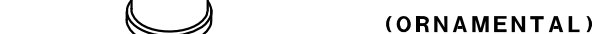
**TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA



FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS.
FASTEN CAPS WITH ONE (1) $\frac{1}{4}$ " X $\frac{3}{4}$ " - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

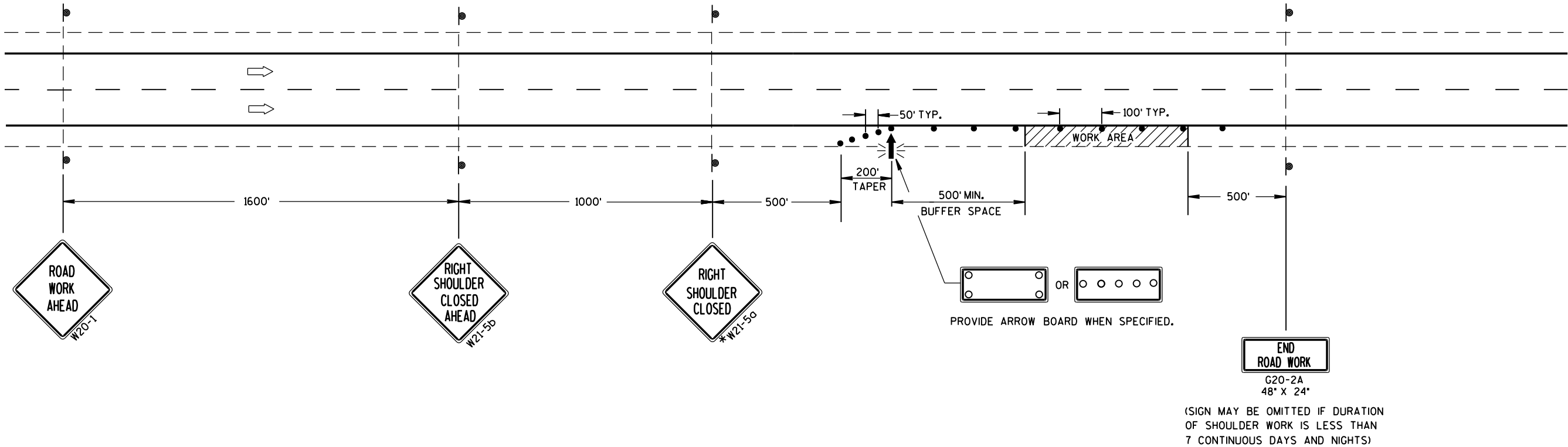
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltz
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

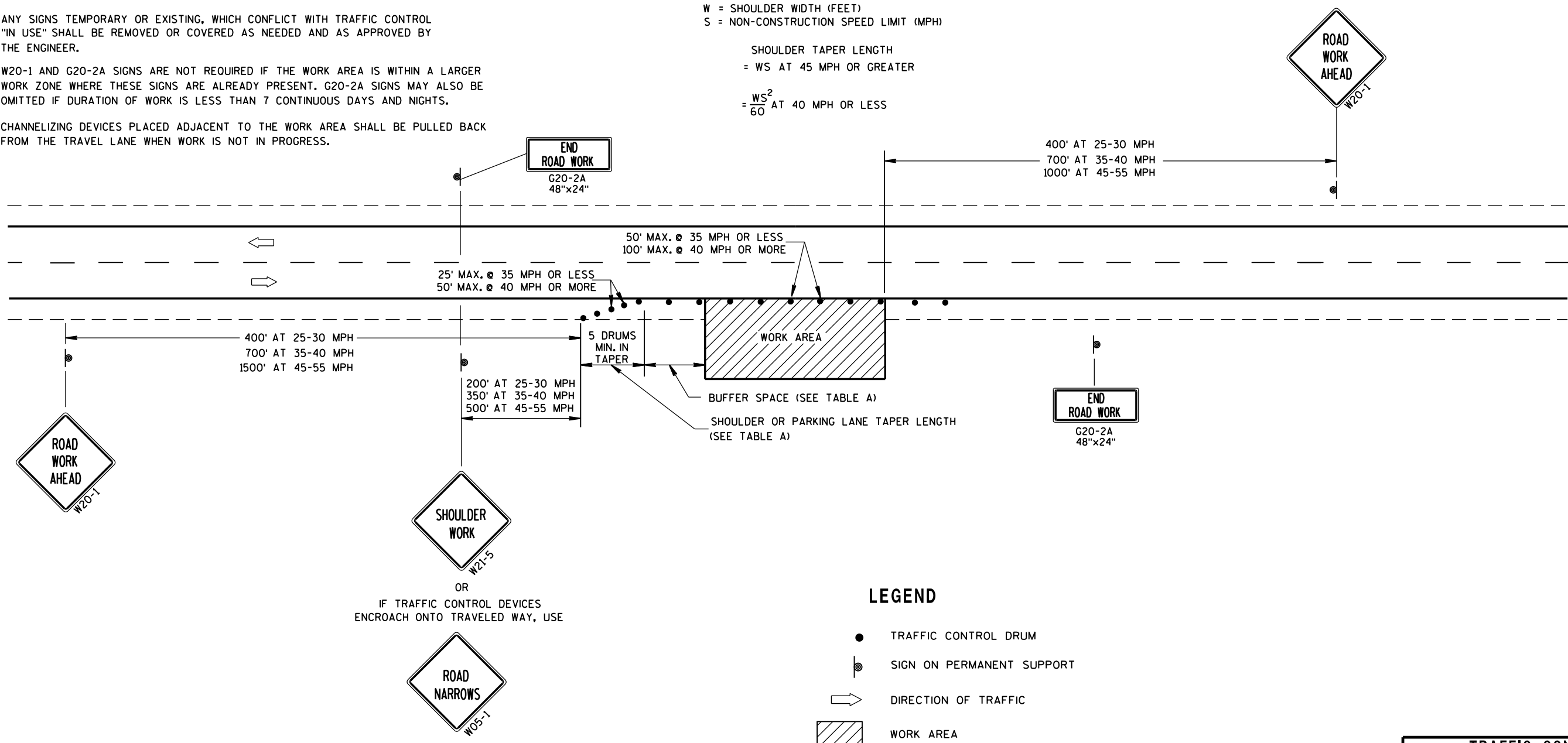
TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>