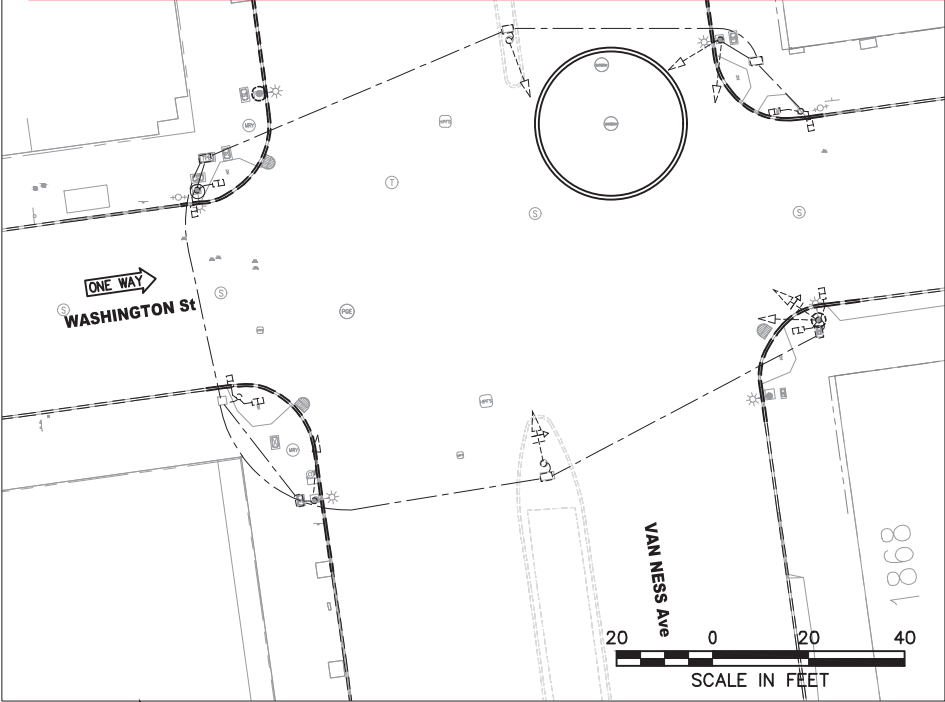
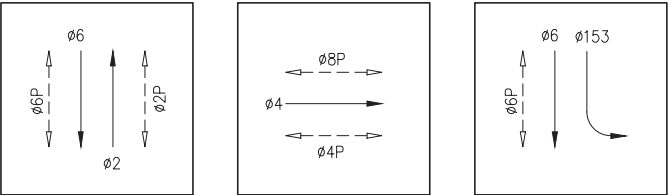


5/6/21 Traffic Signal Switchover
8:45am Dark, 8:58am Emergency Flash, 9:05am 3-color. APS
not installed yet. Transit Signal 152 & 153 disabled.

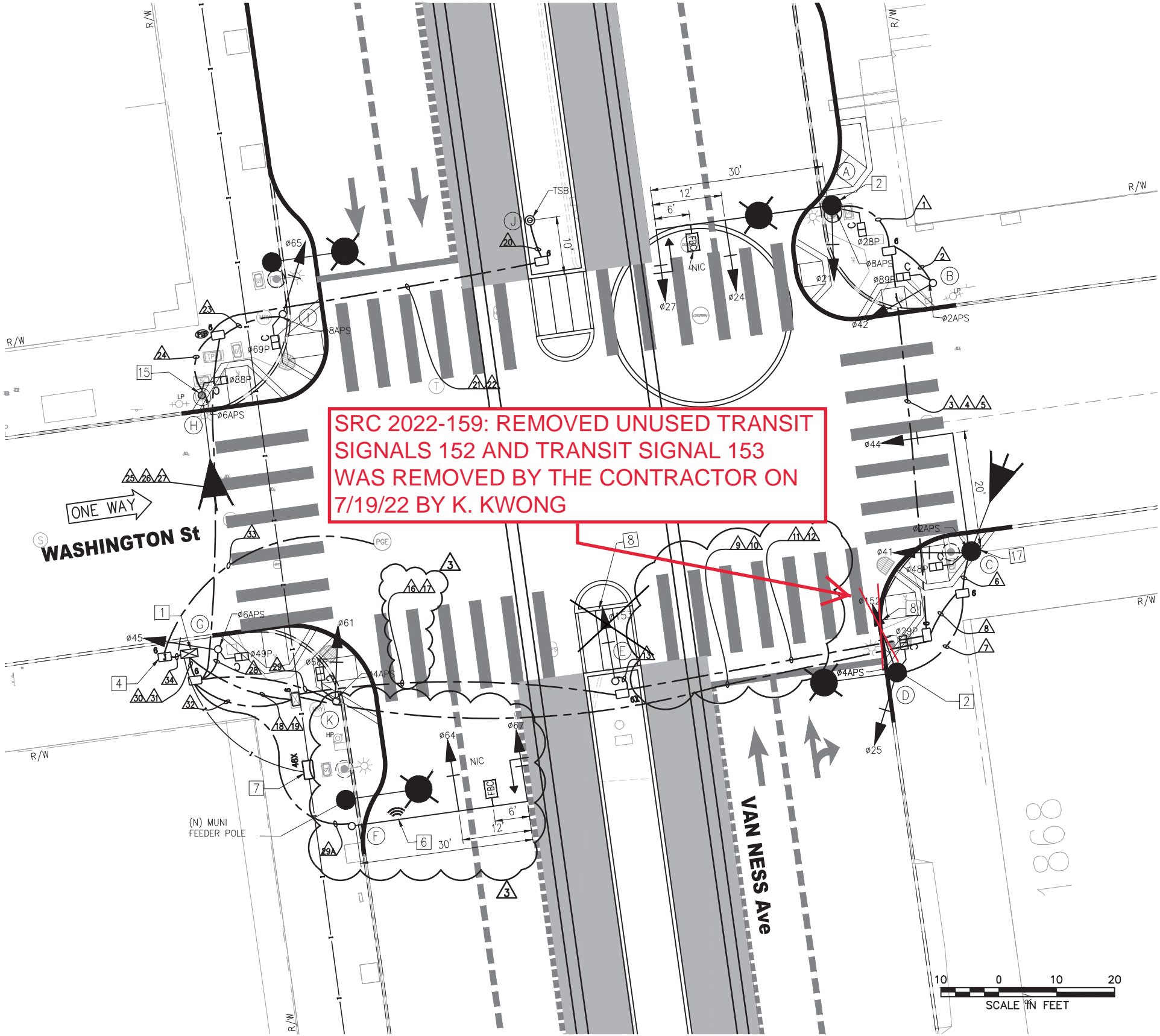
Staff
Ken Kwong (TE), Phong Nguyen (Signal Shop), Dennis Verhalen
(Signal Shop), Cameron Peters (Phoenix), Wilson Lew (Phoenix)



EXISTING EQUIPMENT



PHASE DIAGRAM



SRC 2022-159: REMOVED UNUSED TRANSIT
SIGNALS 152 AND TRANSIT SIGNAL 153
WAS REMOVED BY THE CONTRACTOR ON
7/19/22 BY K. KWONG

FOR ORIGINAL SIGNATURES, SEE ET-120.0, REV 0

T:\T_E_FILES\SP\Projects\Van Ness BR\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09 2021 - 12:16 pm

| NO. | DATE | DESCRIPTION | REVISED | CHECKED | APPROVED |
|-----|----------|---|---------|---------|----------|
| 3 | 11/10/20 | CONFORMED SET: UPDATED W/RFI #932 AND FMA379 | KK | MV | CL |
| SK | 9/18/20 | FMA379-POLE F MOVED SO. OF OCS POLE & NEW 1A POL | KK | MV | CL |
| 2 | 7/18/19 | LATEST DRAWING | KK | MV | CL |
| 1 | 03/2018 | ADDED FBC SIGNS ON POLES A AND F; ADDED TYPE 6X PULLBOX | KK | MV | CL |

| | |
|-------------|------------------|
| DESIGNED | K. KWONG |
| DRAWN | K. KWONG |
| CHECKED | R. ZAMORA/C. LIU |
| REVIEWED | C. LIU |
| RECOMMENDED | P. WILSON |
| APPROVED | R. OLEA |
| DATE | 12/4/2015 |



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

WASHINGTON STREET
TRAFFIC SIGNAL WORK

1289












ET-120.0

ET-204

REVISION

3





F:\T.E. FILES\Spgo\Projects\Van Ness BR\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09,2021 - 12:16 pm

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------------------------------|----------------|-------------|----------------------|-----------------------------|------------------------------|------------------|---------|-------------------|----------|----------|---|--|
| POLE NO. | POLE STANDARD | | | VEHICLE SIGNAL | | | | | PEDESTRIAN SIGNAL | | | HPS LUMINAIRE (WATTS) | SPECIAL REQUIREMENTS |
| | TYPE | SIG. MA (FEET) | OCS SL | No. | TYPE | MOUNTING | VISORS | LOUVERS | No. | TYPE | MOUNTING | | |
| (A) | SIGNAL, SL & OCS COMBO POLE | 30 | 1900 192 | 21 24 27 | 3S12" 3S12" 3S12"GUA | SV-1-T MAS MAS | T T T | | 28 | 1S-COUNT | SP-1 | - | STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 21' HIGH SEE ST PLANS FOR POLE DETAILS APS  TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS |
| (B) | 1-A (10') | - | | 42 | 3S12" | TV-1-T | T | | 89 | 1S-COUNT | SP-1 | - | APS  |
| (C) | 17-2-100 | 20 | 171 | 41 44 | 3S12" 3S12" | SV-1-T MAS | T T | | 48 | 1S-COUNT | SP-1 | - | APS  |
| (D) | SIGNAL, SL & OCS COMBO POLE | - | 1880 188 | 25 152 | 3S12" 3S12"LB | SV-1-T | T | | 29 | 1S-COUNT | SP-1 | - | APS  SIGNAL 152 MOUNT AT 15' HIGH |
| (E) | 1-A (10') | | | 153 | 3S12"LB | TV-1-T | T | | | | | | |
| (F) | SPECIAL MAST ARM POLE (18-4-100) | 30 | | 64 67 | 3S12" 3S12"GUA | MAS MAS | T T | | - | - | - |  - | STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 21' HIGH TSP  TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS |
| (G) | 1-A (10') | - | | 45 | 3S12" | TV-1-T | T | | 49 | 1S-COUNT | SP-1 | - | APS  |
| (H) | EXISTING SL | - | | - | - | - | - | | 88 | 1S-COUNT | SP-1 | - | APS  |
| (I) | 1-A (10') | - | | 65 | 3S12" | TV-1-T | T | | 69 | 1S-COUNT | SP-1 | - | APS  |
| (J) | TSB POLE | - | | - | - | - | - | | - | - | - | - | TSB |
| (K) | 1-A (10') | | | 61 | 3S12" | TV-1-T | T | | 68 | 1S-COUNT | SP-1 | | APS   |

MOUNT SIGNAL 27 BETWEEN YELLOW AND GREEN 

MOUNT SIGNAL 67 BETWEEN YELLOW AND GREEN 

*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS.
FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE CALTRANS STANDARD PLANS OR DETAIL DRAWINGS.

-  INSTALL APS WIRING AS SHOWN IN CONDUIT AND WIRING SCHEDULE. CITY FORCES TO INSTALL CITY FURNISHED APS UNIT.
-  INSTALL CITY FURNISHED TSP WIRING FROM TS OR COMBINED POLES WITH 3 FEET OF SLACK TO TS CABINET.
-  INSTALL CITY FURNISHED TRAFFIC CAMERA AND CONTRACTOR FURNISHED WIRING.
-  FOR STREETLIGHT WORK, SEE SL-SERIES PLANS.

SRC 2022-159: REMOVED UNUSED TRANSIT SIGNALS 152 AND TRANSIT SIGNAL 153 WAS REMOVED BY THE CONTRACTOR ON 7/19/22 BY K. KWONG

FOR ORIGINAL SIGNATURES, SEE ET-120.1, REV 0

| | | | | | |
|-----|----------|--|----------|---------|----------|
| NO. | DATE | DESCRIPTION | DESIGNED | CHECKED | APPROVED |
| 3 | 11/10/20 | CONFORMED SET: UPDATED W/RFI #998 & FM#379 | KK | MV | CL |
| SK | 9/18/20 | FM#379-NEW 1A POLE & POL F MOVED SO. OF OCS POLE | KK | MV | CL |
| 2 | 7/18/19 | LATEST DRAWING | KK | MV | CL |
| 1 | 03/2018 | UPDATED POLE STANDARD AND SPECIAL REQUIREMENT; | KK | MV | CL |
| | | UPDATED POLES A AND F; ADDED FBC TENON NOTE | | | |

| | |
|-------------|------------------|
| DESIGNED | K. KWONG |
| DRAWN | K. KWONG |
| CHECKED | R. ZAMORA/C. LIU |
| REVIEWED | C. LIU |
| RECOMMENDED | P. WILSON |
| APPROVED | R. OLEA |
| DATE | 12/4/2015 |



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

WASHINGTON STREET
CONDUCTOR POLE AND EQUIPMENT SCHEDULES

1289

ET-120.1

ET-204

REVISION

3

F:\T.E. FILES\SPo\Projects\Van Ness BRT\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09,2021 - 12:16 pm

CONDUIT AND WIRING SCHEDULE

| CONDUIT RUN NUMBER | 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 | 29A | 30 | 31 | 32 | 33 | 34 | | | | | | | |
|--|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|---|--|--|--|--|--|--|
| CONDUIT SIZE (INCH) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | | | | | |
| | | | | SP | SP | | | | | | | SP | SP | | | SP | | | GRS | | SP | | | | | | SP | SP | | 2 | 2 | | | SP | SP | | | | | | | |
| VEHICLE SIGNAL Ø21 | 3 | | 3 | | | | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø24 | 3 | | 3 | | | | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø27 | 3 | | 3 | | | | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø28P | 2 | | 2 | | | | | | 2 | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| APS PPB FOR XING VAN NESS NS ON POLE A | 2 | | 2 | | | | | | 2 | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø42 | | 3 | 3 | | | | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø89P | | 2 | 2 | | | | | | 2 | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| APS PPB FOR XING WASHINGTON ES ON POLE B | | 2 | 2 | | | | | | 2 | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø41 | | | | | | 3 | | 3 | | 3 | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø44 | | | | | | 3 | | 3 | | 3 | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø48P | | | | | | 2 | | 2 | | 2 | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| APS PPB FOR XING WASHINGTON ES ON POLE C | | | | | | 2 | | 2 | | 2 | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø25 | | | | | | | 3 | 3 | | 3 | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| TRANSIT SIGNAL Ø152 | | | | | | | 3 | 3 | | 3 | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø29P | | | | | | | 2 | 2 | | 2 | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| APS PPB FOR XING VAN NESS SS ON POLE D | | | | | | | 2 | 2 | | 2 | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| TRANSIT SIGNAL Ø153 | | | | | | | | | | | | | 3 | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| TSB ON POLE J | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | 2 | | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø65 | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø69P | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | |
| APS PPB FOR XING VAN NESS NS ON POLE I | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | |
| PED SIGNAL Ø88P | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | |
| APS PPB FOR XING WASHINGTON WS ON POLE H | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| PED SIGNAL Ø49P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| APS PPB FOR XING WASHINGTON WS ON POLE G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| VEHICLE SIGNAL Ø67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| PED SIGNAL Ø68P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| APS PPB FOR XING VAN NESS SS ON POLE K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| #14 NEUTRAL | 4 | 2 | | | | 3 | 3 | | | | | | | 1 | 3 | 3 | | 3 | 3 | | | | | 2 | 1 | | | | 2 | 2 | 2 | | | | | | | | | | | |
| #14 SPARE | | | 3 | | | | | 3 | 3 | 3 | | | | 3 | 3 | 3 | | 3 | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| TOTAL #14 WIRES | 17 | 9 | 23 | | | 13 | 10 | 20 | 23 | 20 | | | | 1 | 23 | 26 | 3 | 23 | 20 | | 2 | 2 | | 9 | 5 | 16 | | 9 | 9 | 8 | 36 | | | | | | | | | | | |
| #10 WIRES NEUTRAL | | | 1 | | | | | | 1 | 1 | 1 | | | | 2 | 1 | | 1 | 2 | | | | | | 1 | | | | | | | | | | | | | | | | | |
| #4 WIRES (120 V SERVICE) | | | | | | | | | | | | | | | | | | | | </ | | | | | | | | | | | | | | | | | | | | | | |

SRC 2022-159: REMOVED UNUSED TRANSIT SIGNALS 152 AND TRANSIT SIGNAL 153 WAS REMOVED BY THE CONTRACTOR ON 7/19/22 BY K. KWONG

| | | | | | |
|-----------|----------|--|---------|---------|----------|
| 2 | 11/10/20 | CONFORMED SET: UPDATED W/RFI #591, #932 & FM#379 | KK | MV | CL |
| SK | 9/18/20 | FM#379-UPDATED W/ NEW POLE K & CONDUIT RUN 29A | KK | MV | CL |
| 1 | 7/18/19 | LATEST DRAWING | KK | MV | CL |
| NO. | DATE | DESCRIPTION | REVISED | CHECKED | APPROVED |
| REVISIONS | | | | | |

| | |
|-------------|------------------|
| DESIGNED | K. KWONG |
| DRAWN | K. KWONG |
| CHECKED | R. ZAMORA/C. LUU |
| REVIEWED | C. LUU |
| RECOMMENDED | P. WILSON |
| APPROVED | R. OLEA |
| DATE | 12/4/2015 |



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MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

WASHINGTON STREET
CONDUIT & WIRING SCHEDULES

1289

ET-120.2

ET-204

REVISION

2