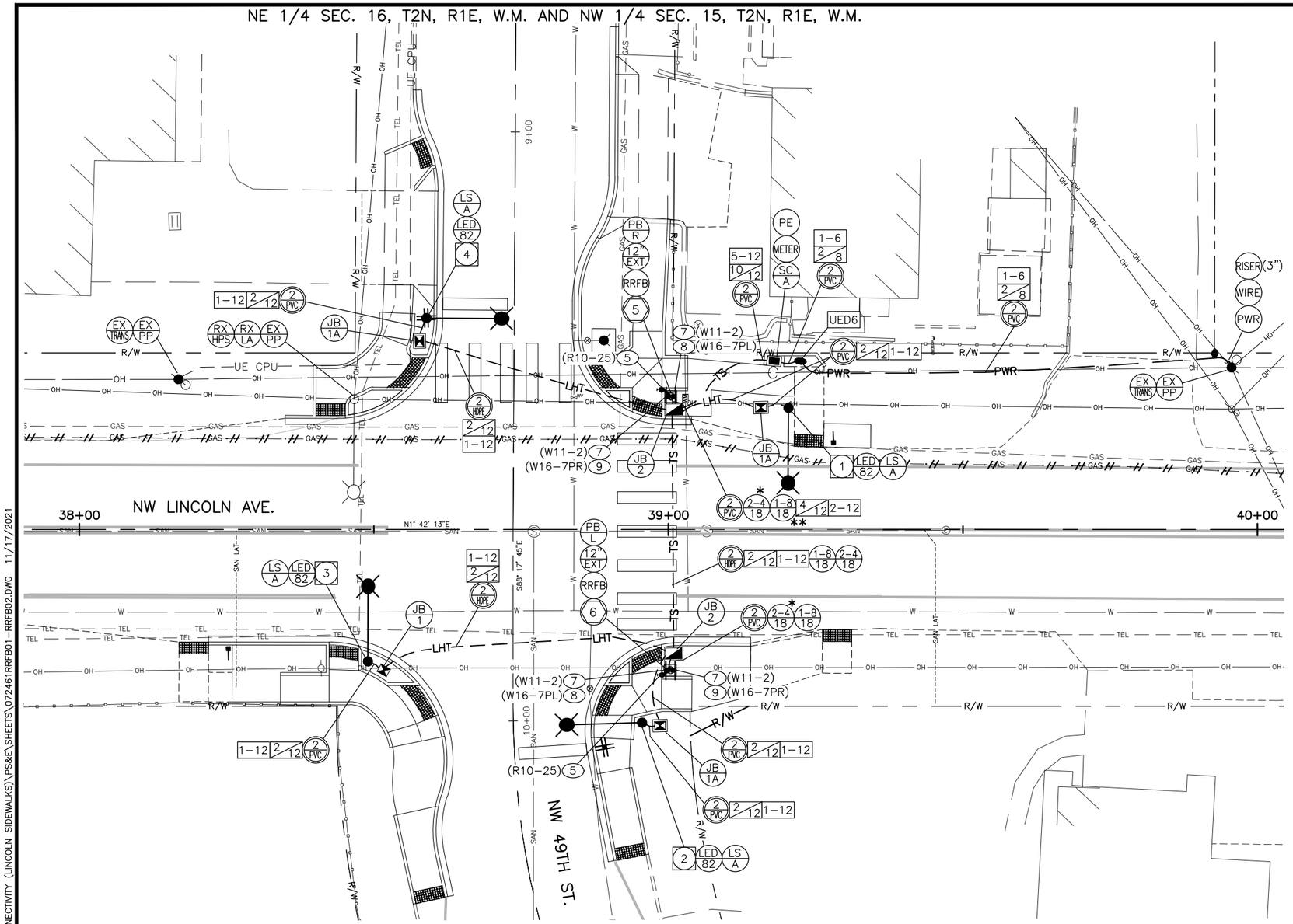


## RRFB CONSTRUCTION NOTES:

1. CARMANAH RECTANGULAR RAPID FLASHING BEACON CROSSWALK SYSTEM SHALL COMPLY WITH MUTCD, INTERIM APPROVAL 21, MARCH 20, 2018.
2. RRFB ASSEMBLY TO INCLUDE:
   A. AC POWERED CONTROLLER – CARMANAH MODEL SC315–G.
   B. POLARA PUSH BUTTON CONTROLLER UNIT.
   C. TWO LED RRFB BARS (BI–DIRECTIONAL) WITH SIDE–EMITTING CONFIRMATION LIGHTS.
   D. SIGNS AS INDICATED ON PLANS AND DETAILS.
   E. ALL NECESSARY MOUNTING HARDWARE.
3. ANY DEVIATION FROM THE SPECIFIED RRFB SYSTEM SHALL REQUIRE APPROVAL FROM THE ENGINEER OF RECORD.
4. COORDINATE WITH CITY OF VANCOUVER SIGNAL TECHNICIANS FOR AUDIBLE MESSAGE DETAILS.
5. ALL EXPOSED CONDUITS SHALL BE RIGID GALVANIZED METAL.

* – RRFB CONNECTION TO CONTROLLER

** – AUDIBLE PUSH BUTTON CONNECTION BELDEN #27601A OR APPROVED EQUAL

**POLE SCHEDULE, ORIENTATION, AND ATTACHMENT CHART**

| POLE NO. (#) OR (#) | TYPE | STATION | OFFSET | J | K | CONTROL CABINET | PUSH BUTTON | RRFB LED BAR & SIGNS | HAND HOLE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | A | 39+20.38 | 20.65' LT. | 12' | 25' | | | | |
| 2 | A | 38+95.51 | 32.80' RT. | 12' | 25' | | | | |
| 3 | A | 38+48.98 | 22.39' RT. | 12' | 25' | | | | |
| 4 | A | 38+58.92 | 35.90' LT. | 12' | 25' | | | | |
| 5 | RRFB | 39+00.42 | 22.57' LT. | | | 1 | 8 | 3/7 | 1 |
| 6 | RRFB | 39+00.35 | 23.92' RT. | | | – | 6 | 3/7 | 5 |

ALL STATIONING IS OFF OF NW LINCOLN AVE. CENTERLINE.

"NW LINCOLN AVE." (ORIENTATION LOOKING DOWN POLE)

SCALE IN FEET 10 0 10 20

## CONSTRUCTION NOTES:

**GENERAL NOTES**

1. SEE SHEET G02 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.
2. PROTECT ALL EXISTING UTILITIES UNLESS INDICATED ON PLANS TO BE ADJUSTED, ABANDONED OR REMOVED. SEE UTILITY PLAN FOR ADDITIONAL INFORMATION.
3. FOR OTHER SIGNS AT THE INTERSECTION, SEE SIGNING AND STRIPING PLANS.
4. ALL CONDUIT WORK AND WIRING BEYOND UED6 PEDESTAL IS DONE BY CPU, COORDINATE WORK.

**RETANGULAR RAPID FLASHING BEACON**

- (#) INSTALL NEW POLE (#).
- (RRFB) INSTALL AC POWERED RECTANGULAR RAPID FLASHING BEACON ASSEMBLY, SHALL BE DOUBLE–SIDED. SEE DETAILS ON SHEETS RRFB03 AND RRFB04.
- (L EXT) INSTALL PUSHBUTTON EXTENSION, ARM LENGTH (L). CONTRACTOR TO FIELD VERIFY LENGTH PRIOR TO ORDERING. SEE DETAIL T20–09E ON SHEET RRFB03.
- (PB D) INSTALL RECTANGULAR RAPID FLASHING BEACON (RRFB) ADA PEDESTRIAN AUDIBLE PUSH BUTTON ASSEMBLY WITH DIRECTIONAL ARROW POINTING (D) L=LEFT OR R=RIGHT. USE POLARA XAV2. SEE DETAIL ON SHEETS RRBB03 AND RRFB04.
- (S T) INSTALL (S) INCH, (T) TYPE ELECTRICAL CONDUIT. CONDUIT LOCATION SHOWN AS APPROXIMATE ONLY. FINAL LOCATION TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER.
- (JB T) INSTALL TYPE (T) JUNCTION BOX. SEE WSDOT STANDARD PLAN J–40.10–03 ON SHEET RRFB06 AND T20–17A AND T20–17B ON SHEET D20.
- (X–# G) INSTALL (X) CONTROL CABLES WITH (#) AWG. NO. (G) CONDUCTORS.
- (#/G) INSTALL (#) AWG NO. (G) CONDUCTORS.
- (#–G) INSTALL (#) AWG. NO. (G) STRANDED COPPER WIRE (GROUNDING).
- (#) ILLUMINATION POLE. SEE POLE SCHEDULE
- (LED #) INSTALL (# WATT) LEOTEK LED STREET LIGHT. FIXTURES SHALL BE LEOTEK: GCM2–30H–MV–WW–2R–GY–850–BBL–PCR7–WL–SC.
- (LS A) INSTALL TYPE (A) LIGHTING STANDARD. SEE DETAILS T21–01A TO T21–01D, T21–02, T21–10A, T21–11B, T21–12 AND T21–16 ON SHEETS D18 AND D19. SEE WSDOT STANDARD PLANS J–28.30–03 ON SHEET D21.
- (PWR) CONNECT TO POWER SOURCE. COORDINATE ELECTRICAL CONNECTION WITH CLARK PUBLIC UTILITIES.
- (METER) INSTALL AND SET CPU–APPROVED METER.
- (SC A) INSTALL TESCO SERVICE CABINET (27–000) AND FOUNDATION. SEE DETAILS ON SHEET RRFB02. SEE DETAILS T21–15A, T21–15B AND T21–17 ON SHEET D19.
- (UED6) INSTALL UED6 SECONDARY PEDESTAL ASSEMBLY. SEE DETAIL ON SHEET RRFB05.
- (WIRE) COIL WIRE AT BASE OF POLE.
- (RISER) INSTALL SIZE (S)" HDPE RISER WITH WEATHER CAP.
- (PE) INSTALL PHOTOELECTRONIC CONTROL RELAY.

**LIGHTING AND POWER POLES**

- (PP) NEW POWER POLE LOCATION, SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.
- (RX PP) REMOVE EXISTING POWER POLE, SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.
- (RX LA) REMOVE EXISTING LUMINAIRE ARM.
- (RX HPS) REMOVE EXISTING HPS LIGHTING FIXTURE.
- (EX PP) PROTECT EXISTING POWER POLE.
- (EX TRANS) EXISTING TRANSFORMER.

**SIGNING**

- (#) NEW SIGN ASSEMBLY (SIGN TYPE) MOUNTED ON PROPOSED RRFB POLE, SEE LEGEND AND MOUNTING DETAILS ON SHEET D22 AND D23.

**ABBREVIATIONS**

HDPE = SCH. 80 HIGH DENSITY POLYETHYLENE PIPE
PVC = SCH. 40 PVC PIPE
# = NUMBER OF LETTER SHOWN
X = NUMBER OF CABLES SHOWN
D = DIRECTION SHOWN
PH = PHASE SHOWN
L = LENGTH SHOWN
CH = CHANNEL SHOWN
S = SIZE SHOWN
G = AWG SIZE SHOWN
T = TYPE SHOWN
A = STANDARD PLUMBIZER
M = WSDOT TYPE "M" ARM MOUNT
K = WSDOT TYPE "K" MOUNT

811 Know what's below. Call before you dig.

FILE NAME: 072461RRFB01–RRFB02
DATE: NOVEMBER 2021
SCALE:
DESIGNED BY: RWG
DRAWN BY: RAW
CHECKED BY: RWG
HORIZONTAL: AS SHOWN
VERTICAL:
APPROVED BY: CJC

| DATE | No. | REVISIONS |
|---|---|---|
| | | |

RICHARD W. GAMBLE, STATE OF WASHINGTON, 36486, REGISTERED PROFESSIONAL ENGINEER

2021-11-18 08:32-08:00

**NW NEIGHBORHOOD CONNECTIVITY IMPROVEMENTS**
NW LINCOLN AVE. AT 49TH ST. RRFB
NW LINCOLN AVE. – NW 52ND ST. TO NW 54TH CIR. (P), NW 53RD ST. – NW LINCOLN AVE. TO NW HARNEY ST. AND NW HARNEY ST. – NW 49TH ST. TO NW 51ST ST. PATHWAY

# NW LINCOLN AVE. AT NW 49TH ST. RETANGULAR RAPID FLASHING BEACON INSTALLATION

CITY OF Vancouver WASHINGTON Public Works

JOB NUMBER PRJ072461

RRFB01

SHEET 128 OF 170

I:\PROJECTS\331 PROJECTS\072461 – NW NEIGHBORHOOD CONNECTIVITY (LINCOLN SIDEWALKS)\PS&E\SHEETS\072461RRFB01–RRFB02.DWG 11/17/2021