

# verizon

WST-WHP-N002  
5 RATHBUN AVENUE, WHITE PLAINS, NY 10606

verizon

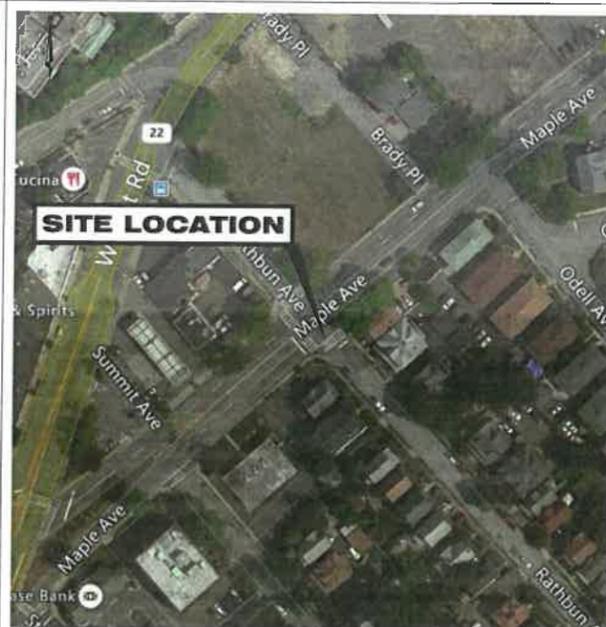
**SQUAN**  
solutions for wireless ecosystems

REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB

**LOCATION MAP**



**VICINITY MAP**



**PROJECT INFORMATION**

**SITE ADDRESS:** 5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606  
**LATITUDE:** 41.022743  
**LONGITUDE:** -73.773998  
**GROUND ELEVATION:** ±239' AMSL  
**JURISDICTION:** CITY OF WHITE PLAINS  
**POLE #:** TBD  
**POLE TYPE:** METAL TRAFFIC SIGNAL LIGHT POLE  
**POLE OWNER:** TBD  
**EXISTING STRUCTURE HEIGHT:** ±23'-0" AGL (23.0')  
**PROPOSED STRUCTURE HEIGHT:** ±23'-0" AGL (23.0')  
**ANTENNA CENTER HEIGHT:** ±22'-2" AGL (22.166')  
**POLE LOCATION & DESCRIPTION:** NW CORNER OF MAPLE AVENUE & RATHBUN AVENUE  
**DISTANCE TO NEAREST CORNER:** ±12'-10" (12.833) NORTHEAST OF RATHBUN AVE

**APPLICANT:**  
NEW YORK SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
4 CENTER ROCK ROAD  
WEST NYACK, NY 10994  
**ENGINEER:**  
KMB DESIGN GROUP, LLC  
1800 ROUTE 34, SUITE 209  
WALL, NJ 07719  
PROJECT MANAGER: JASON BEATO (732) 280-5623

**DRAWING INDEX**

DWG #	DRAWING TITLES
C01	COVER SHEET
C02	AREA PLAN
C03	POLE ELEVATIONS
C04	CABLE ROUTING
C05	ANTENNA & EQUIPMENT SPECIFICATIONS & REPAIR DETAILS
C06	ANTENNA MOUNTING DETAILS
C07	MITIGATION DESIGN
TC1	VEHICULAR TRAFFIC CONTROL PLAN
TC2	VEHICULAR TRAFFIC CONTROL PLAN
TC3	VEHICULAR TRAFFIC CONTROL PLAN
TC4	VEHICULAR TRAFFIC CONTROL PLAN
TC5	VEHICULAR TRAFFIC CONTROL PLAN
TC6	VEHICULAR TRAFFIC CONTROL PLAN
GN01	GENERAL NOTES
E01	WIRING DIAGRAM



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

**WST\_WHP\_N002**

DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
COVER SHEET

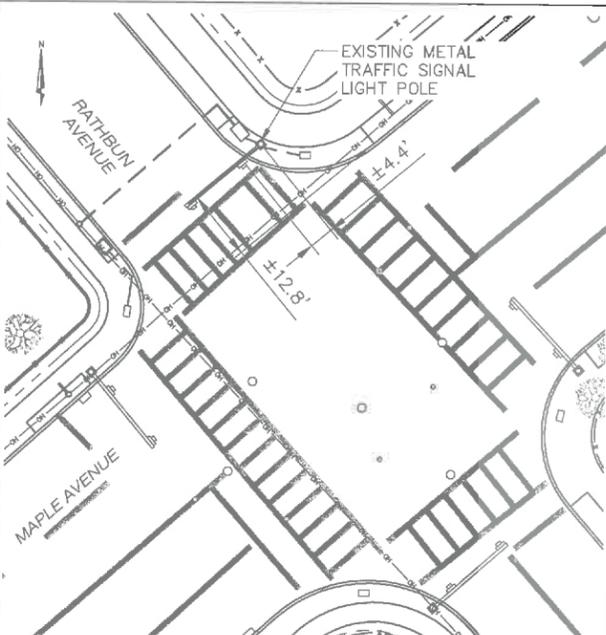
SHEET NUMBER:  
**C01**

REV.:  
**3**

**LOCATION PHOTO**



**KEY MAP**



**PROJECT SCOPE**

INSTALLATION OF NEW VERIZON TELECOMMUNICATIONS EQUIPMENT ON AN EXISTING METAL TRAFFIC SIGNAL LIGHT POLE. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL (3) ANTENNAS
- INSTALL (1) AC DISCONNECT
- INSTALL (1) METER

**CODE COMPLIANCE**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE AREAS GOVERNING CODES. ALL CODES WILL BE COMPLIED WITH.

- 2020 BUILDING CODE OF NEW YORK STATE
- NATIONAL ELECTRIC CODE, 2017

**APPROVALS**

CONSTRUCTION MANAGER OR REPRESENTATIVE:

NAME	SIGNATURE	DATE
VERIZON REPRESENTATIVE		

NAME	SIGNATURE	DATE
------	-----------	------

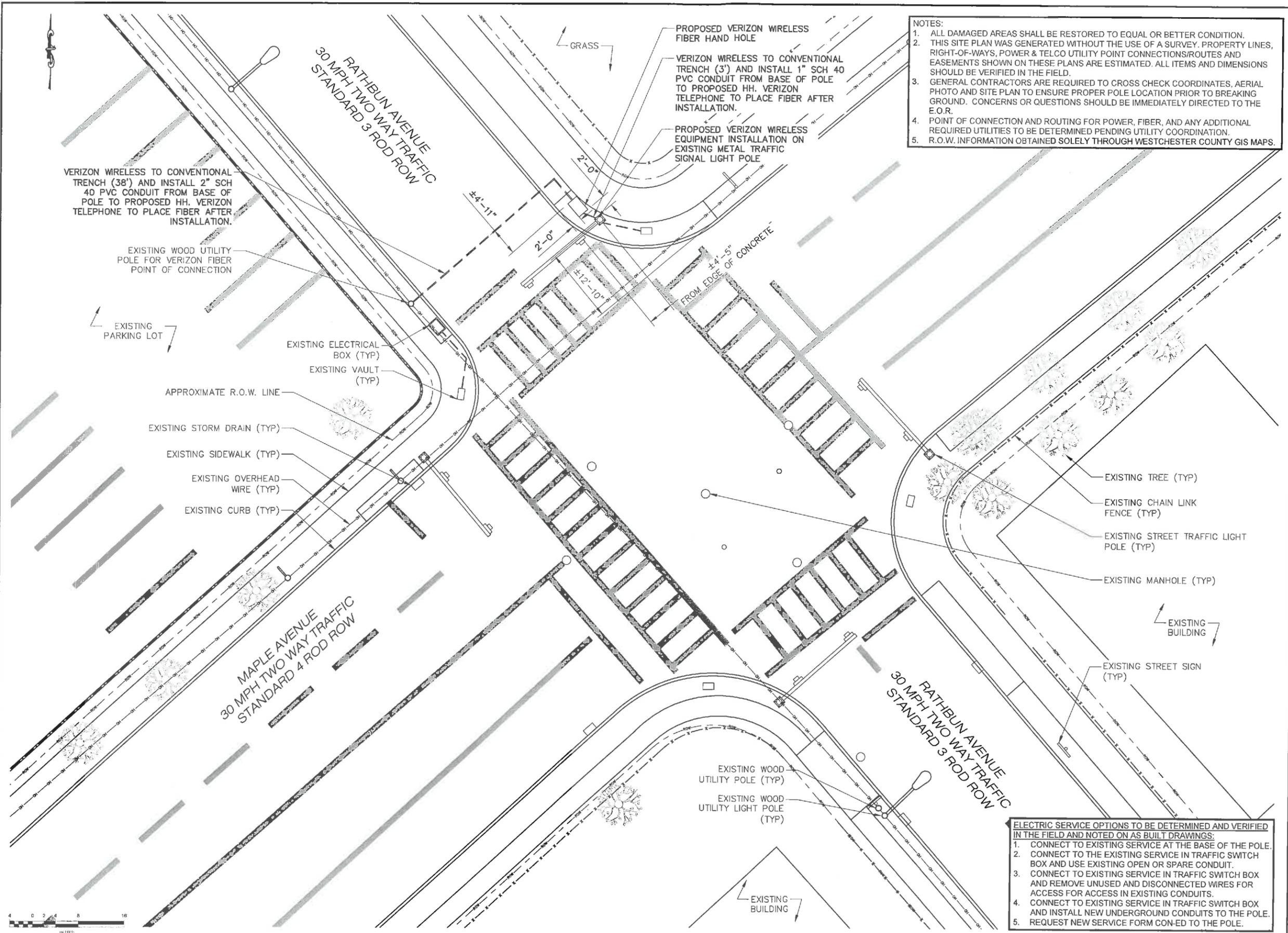


Know what's below.  
Call before you dig.

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- NOTES:**
1. ALL DAMAGED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
  2. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.
  3. GENERAL CONTRACTORS ARE REQUIRED TO CROSS CHECK COORDINATES, AERIAL PHOTO AND SITE PLAN TO ENSURE PROPER POLE LOCATION PRIOR TO BREAKING GROUND. CONCERNS OR QUESTIONS SHOULD BE IMMEDIATELY DIRECTED TO THE E.O.R.
  4. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.
  5. R.O.W. INFORMATION OBTAINED SOLELY THROUGH WESTCHESTER COUNTY GIS MAPS.

- ELECTRIC SERVICE OPTIONS TO BE DETERMINED AND VERIFIED IN THE FIELD AND NOTED ON AS BUILT DRAWINGS:**
1. CONNECT TO EXISTING SERVICE AT THE BASE OF THE POLE.
  2. CONNECT TO THE EXISTING SERVICE IN TRAFFIC SWITCH BOX AND USE EXISTING OPEN OR SPARE CONDUIT.
  3. CONNECT TO EXISTING SERVICE IN TRAFFIC SWITCH BOX AND REMOVE UNUSED AND DISCONNECTED WIRES FOR ACCESS FOR ACCESS IN EXISTING CONDUITS.
  4. CONNECT TO EXISTING SERVICE IN TRAFFIC SWITCH BOX AND INSTALL NEW UNDERGROUND CONDUITS TO THE POLE.
  5. REQUEST NEW SERVICE FORM CON-ED TO THE POLE.



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 NY LICENSE: 086064 2/1/22

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**321.5002.Z02**

SITE INFORMATION:  
**5 RATHBUN AVENUE  
 WHITE PLAINS, NY 10606**

**WST\_WHP\_N002**

DESIGN TYPE:  
**LIGHT POLE**

SHEET TITLE:  
**AREA PLAN**

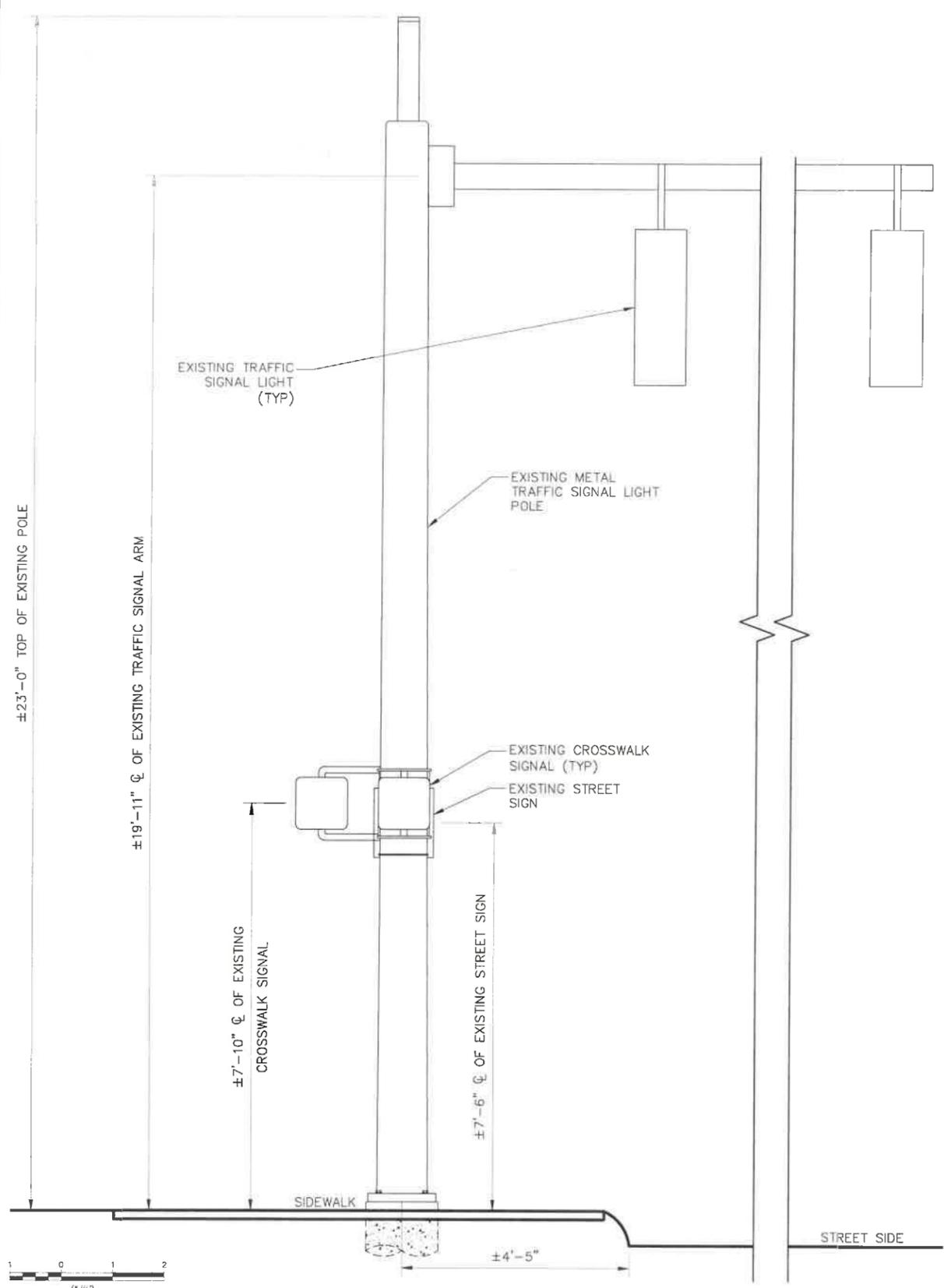
SHEET NUMBER:  
**C02**

REV.:  
**3**

1 **AREA PLAN**  
 11x17 SCALE: 1/16" = 1'-0"    24x36 SCALE: 1/8" = 1'-0"

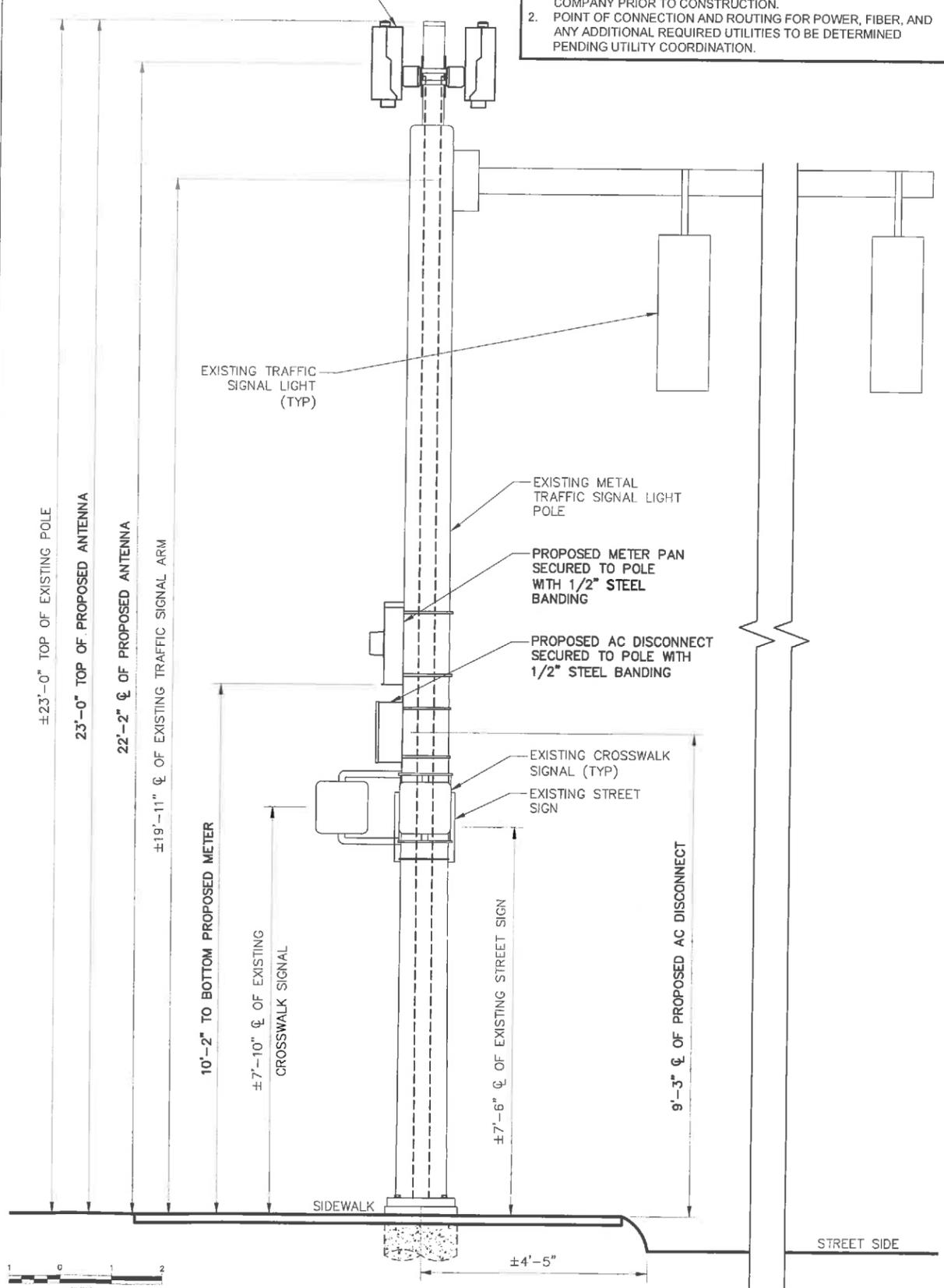
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**1 EXISTING ELEVATION**

11x17 SCALE: 3/8" = 1'-0"    24x36 SCALE: 3/4" = 1'-0"



**2 PROPOSED ELEVATION**

11x17 SCALE: 3/8" = 1'-0"    24x36 SCALE: 3/4" = 1'-0"

**NOTES:**

1. ANY EXISTING CABLES OR UTILITIES NEAR PROPOSED EQUIPMENT ARE TO BE RELOCATED AS NEEDED, DETERMINED BY THE APPROPRIATE UTILITY COMPANY'S MAKE READY REPORT AND REQUIREMENTS. CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
2. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.



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WHITE PLAINS, NY 10606

**WST\_WHP\_N002**  
DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
POLE ELEVATIONS

SHEET NUMBER: **C03**    REV: **3**

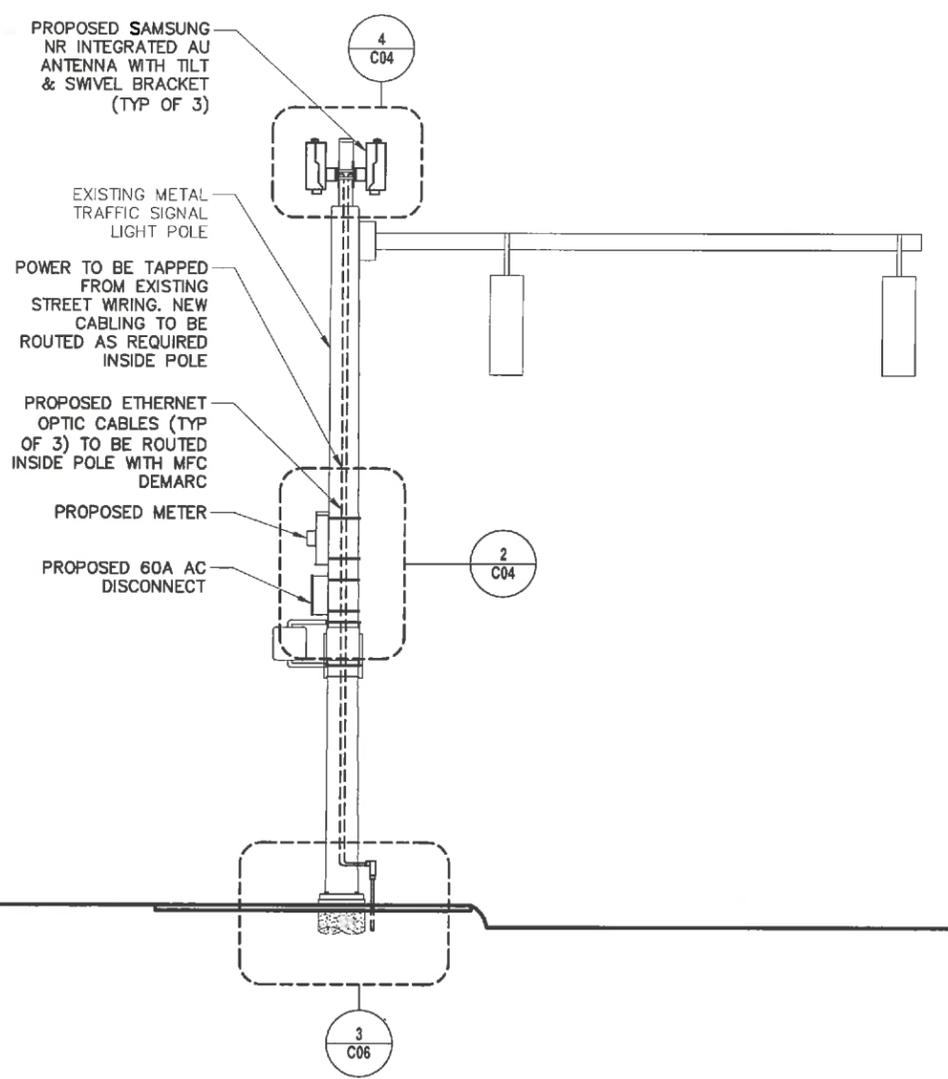
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**NOTES:**

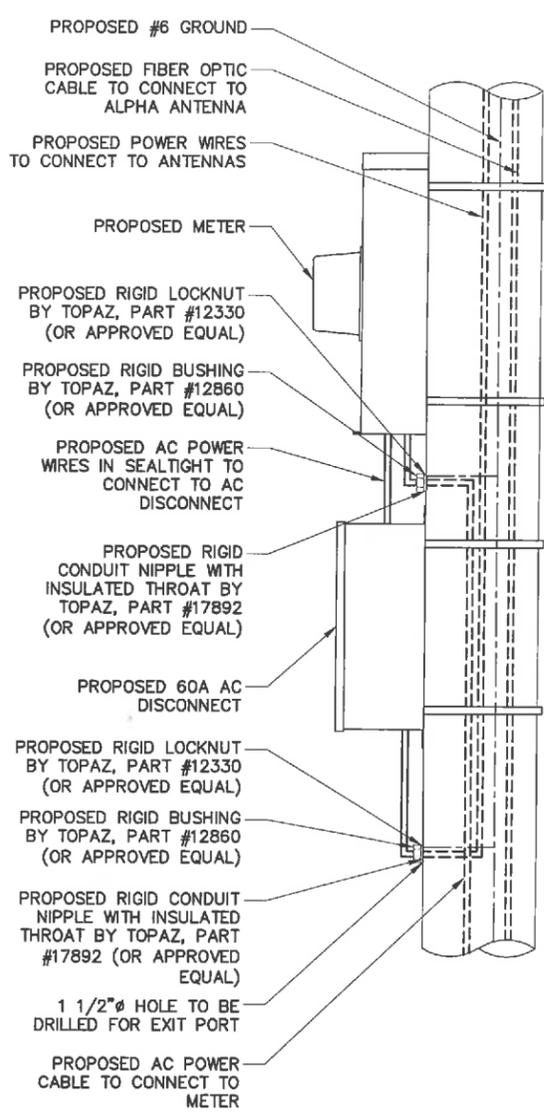
- CABLING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VISUAL IMPACT ON EXISTING POLE. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
- POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION. CONTRACTOR TO PROVIDE METHOD AND MEANS.

**GENERIC CABLING NOTES:**

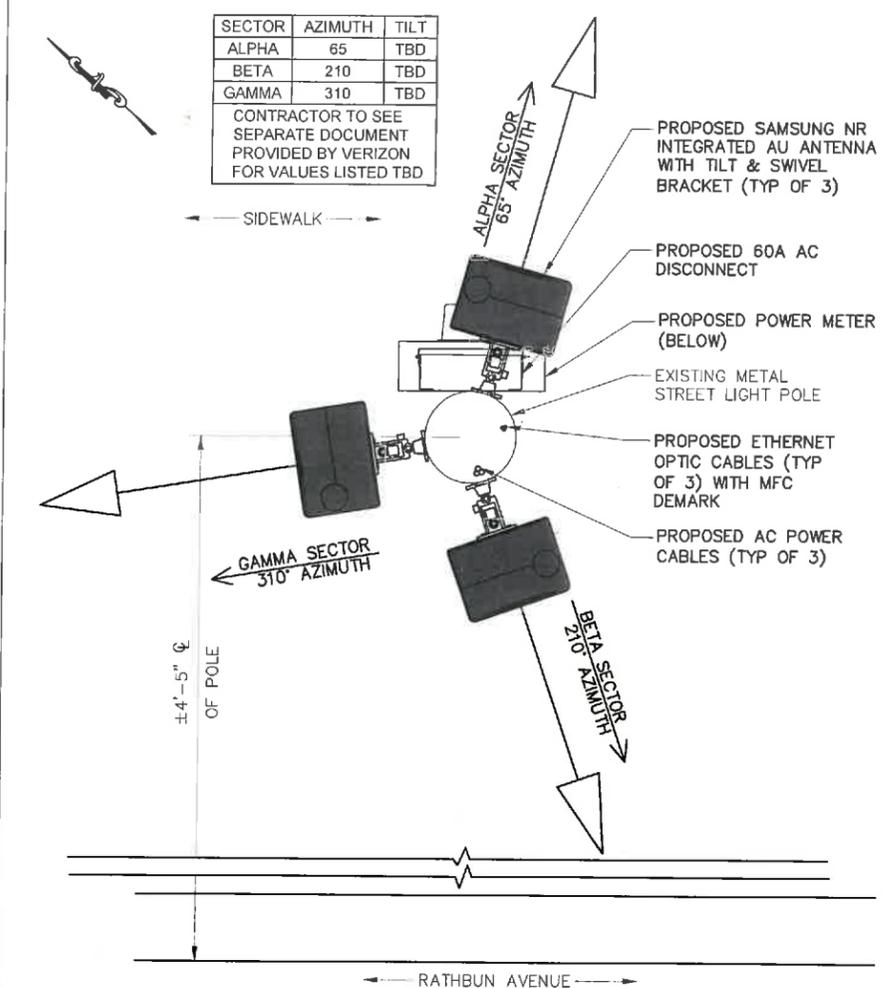
- INSTALL PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE. TRANSITION TO RGS AT GRADE LINE.
- AT MAJOR EQUIPMENT, EXTEND UTILITY DUCT IMMEDIATELY ADJACENT TO THE EQUIPMENT. INSTALL CABLES IN THE UTILITY POLE RISER CREATING CABLE DRIP LOOPS NOT LESS THAN THE CABLE BENDING RADIUS.
- TO SUPPORT FIBER, RADIO POWER AND ANY ADDITIONAL CABLES, CONTRACTOR WILL ATTACH MESH STYLE CABLE SUPPORT ATTACHED TO STAINLESS STEEL STRAPPING.



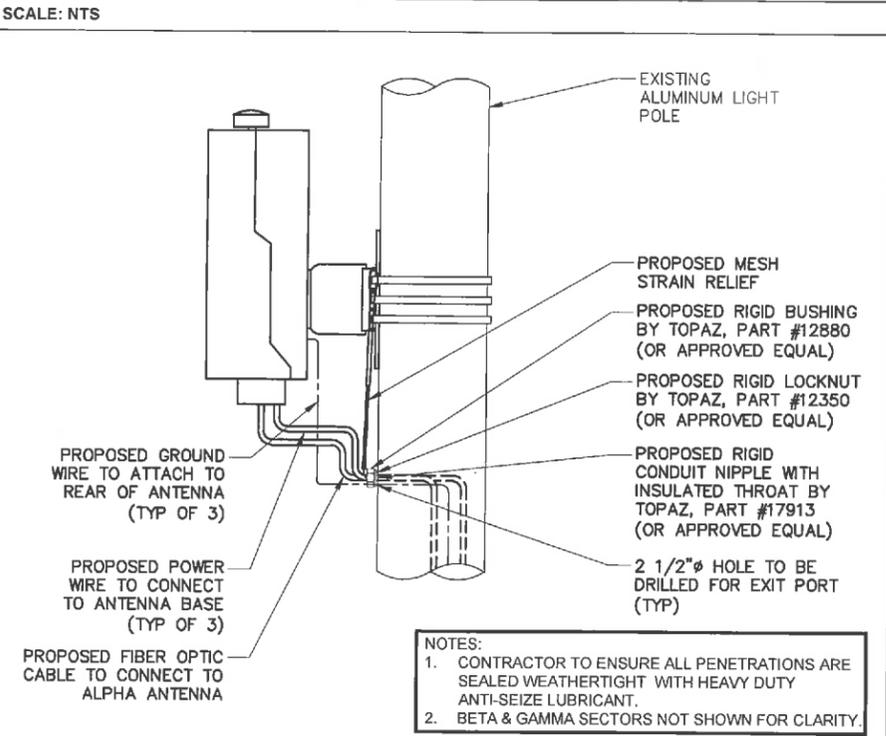
1 CABLE ROUTING ELEVATION



2 AC POWER EXIT PORT DETAIL



3 EQUIPMENT PLAN VIEW



4 WIRING EXIT PORT DETAIL



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**WST\_WHP\_N002**

DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
CABLE ROUTING

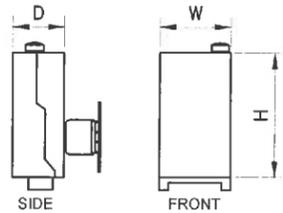
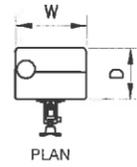
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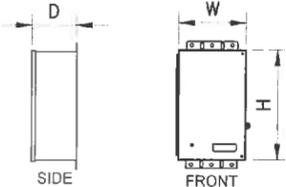
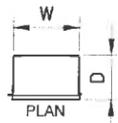
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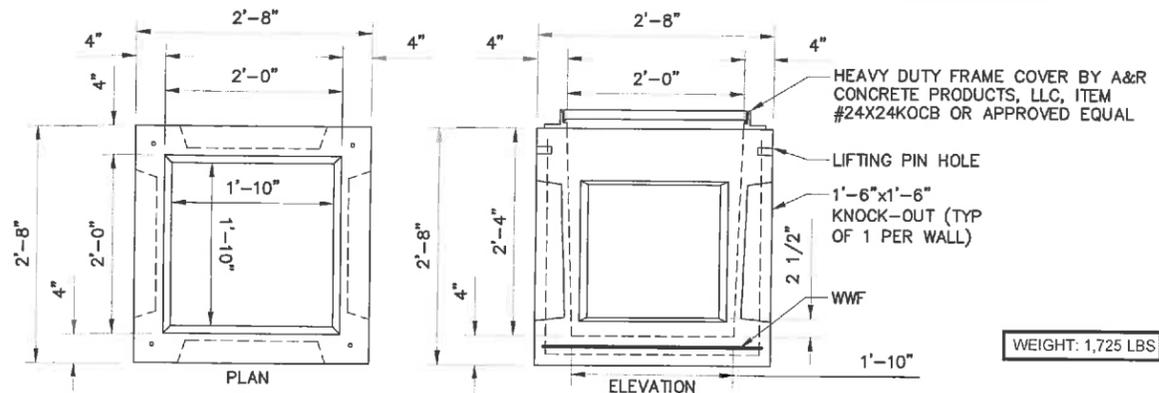
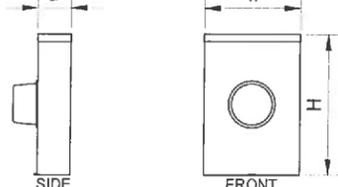
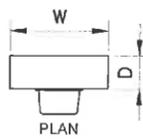
MANUF.: SAMSUNG  
 MODEL: AT1K-TBD  
 LENGTH: 16.8"  
 WIDTH: 9.6"  
 DEPTH: 6.9"  
 WEIGHT: 33.1 lbs  
 AREA: 0.5 SF



MANUF.: RAYCAP  
 MODEL: RSD-DMN-X02MS-21NN  
 HEIGHT: 13.9"  
 WIDTH: 9.1"  
 DEPTH: 6.1"  
 WEIGHT: 16.3 lbs



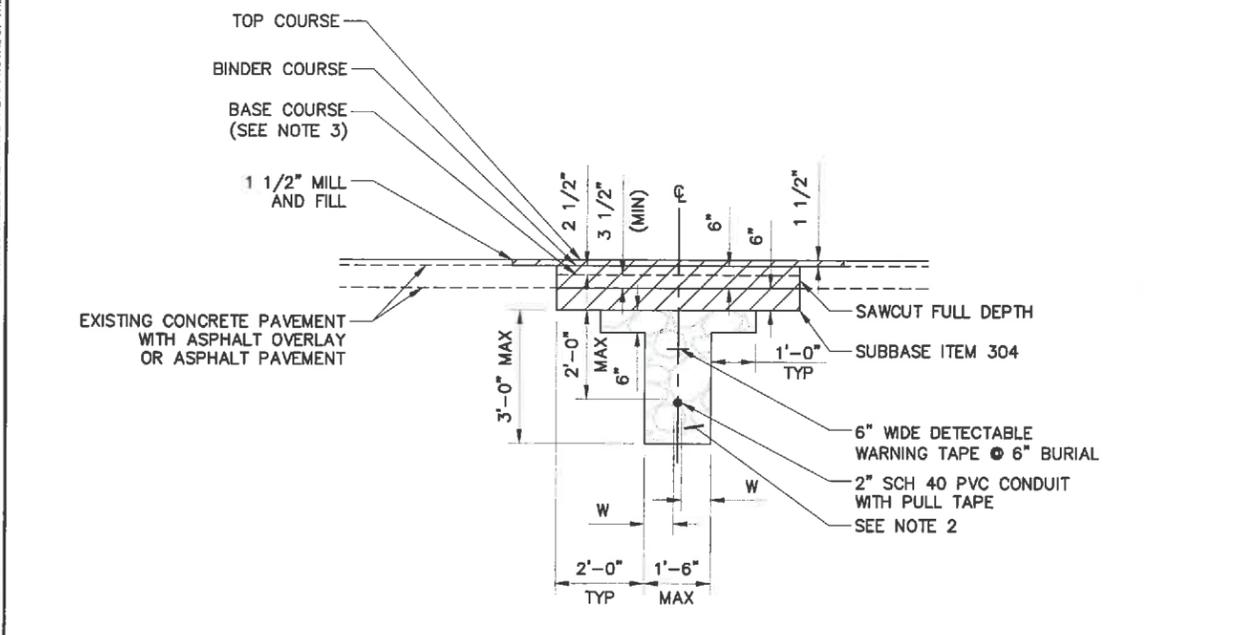
MANUF.: MILBANK POWER METER  
 MODEL: U4801-XL-5T9  
 HEIGHT: 19.0"  
 WIDTH: 13.0"  
 DEPTH: 4.8"  
 WEIGHT: 21.0 lbs



NOTE:  
 1. PROPOSED OPTI-TIP FIBER TERMINAL TO BE INSTALLED BY VERIZON TELEPHONE DURING FIBER INSTALLATION.  
 2. CONCRETE TO TEST 5,000 PSI AT 28 DAYS.  
 3. REINFORCING STEEL PER ASTM A185 FOR WELDED WIRE FABRIC.  
 4. FRAMES AND COVERS/GRATES ARE AVAILABLE UPON REQUEST.  
 5. MANUFACTURER A&R CONCRETE PRODUCTS, LLC, NEWBURGH, NY, IS APPROVED BY NYS DOT FOR GROUP 2 ROUTINE PRODUCTION. THE MANUFACTURER IS IN GOOD STANDING ON THE APPROVED LIST BY NYS DOT. PRECAST ITEMS MAY BE PRODUCED AND SHIPPED WITH A MINIMUM LEVEL OF DEPARTMENT OVERSIGHT.

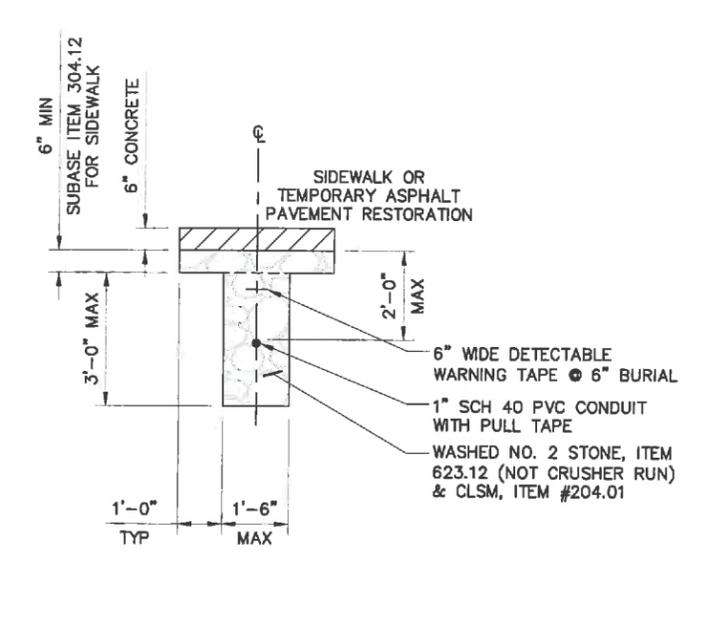
WEIGHT: 1,725 LBS

1 ANTENNA SCALE: NTS  
 2 AC DISCONNECT SCALE: NTS  
 3 POWER METER SCALE: NTS



NOTES:  
 1. ALL MATERIALS SHALL BE PROVIDED AND WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND ALL CURRENT ADDENDUM.  
 2. WHEN "W" IS LESS THAN 18", CONTROLLED LOW STRENGTH BACKFILL (CLSM) SHALL BE USED. WHEN "W" IS 18" OR GREATER, THE BACKFILL SHALL BE SELECT GRANULAR FILL. MATERIAL AND PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. COMPACTION TESTS WILL BE COMPLETED ON IN-PLACE SELECT GRANULAR FILL. THE CLSM HAS TO SET PRIOR TO BACKFILLING. THE CONTRACTOR MAY SURROUND THE PIPE OR UTILITY WITH SPECIAL MATERIAL SUBJECT TO APPROVAL OF THE ENGINEER.  
 3. THE 8" ASPHALT PAVEMENT BASE COURSE SHALL BE PLACED IN LIFTS NO GREATER THAN 4". IF THE EXISTING PAVEMENT IS GREATER THAN 12" TOTAL THICKNESS, THE BASE COURSE THICKNESS SHALL BE INCREASED SO THE BOTTOM OF THE RESTORATION PAVEMENT MATCHES THE EXISTING PAVEMENT.  
 4. FOR LIGHTWEIGHT PIPE INSTALLATIONS, IT MAY BE NECESSARY TO COUNTERACT THE BUOYANCY OF THE PIPE DURING THE CLSM PLACEMENT. METHODS SUCH AS PARTIALLY FILLING WATERTIGHT PIPES WITH WATER, OR USING ANCHOR STRAPS OR GRAVEL BAGS TO HOLD DOWN THE PIPES CAN BE USED TO PREVENT FLOTATION.  
 5. WHERE THE DISTANCE BETWEEN THE TOP OF PIPE ELEVATION AND THE TOP OF SUBGRADE ELEVATION IS LESS THAN 2', CLSM SHALL BE USED FOR BACKFILL MATERIAL TO TOP OF SUBGRADE ELEVATION.  
 6. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED AT THE BOTTOM OF THE TRENCH, A LAYER OF SELECT GRANULAR FILL OR CLSM SHALL BE PLACED TO PROVIDE A STABLE BEDDING.  
 7. DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS UNLESS ALUMINUM IS COATED WITH AN APPROVED PRIMER.  
 8. DO NOT PLACE CLSM CONTAINING FLY ASH IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS.  
 9. ALL PAVEMENT JOINTS SHALL BE SEALED.  
 10. ALL DISTURBED OR NEW PAVEMENT SHALL HAVE TEMPORARY PAVEMENT STRIPING INSTALLED WITHIN 24 HOURS, AND FINAL STRIPING BEFORE ACCEPTANCE OF WORK.

4 ASPHALT PAVEMENT REPAIR SECTION DETAIL SCALE: NTS

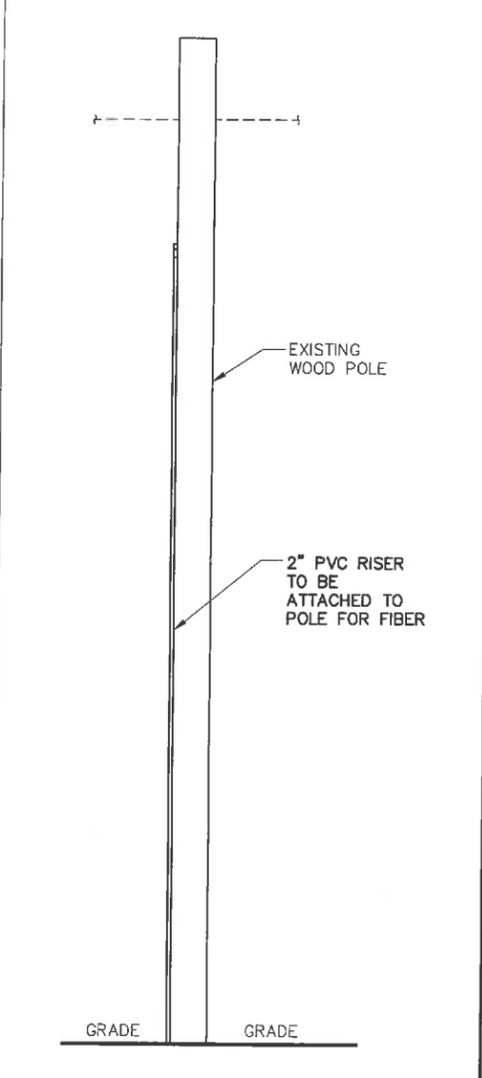


GENERAL NOTES:  
 1. SECTION 204 OF THE STANDARD SPECIFICATIONS APPLIES, EXCEPT AS MODIFIED BY THE FOLLOWING NOTES.  
 2. THE FOLLOWING NOTES PERTAIN TO THE USE OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) FOR BACKFILL AT THE EXISTING UNDERGROUND UTILITY INSTALLATION.

CLSM PLACEMENT:  
 1. WORK INVOLVING QUANTITIES OF CLSM LESS THAN 2.6YD, THE REGIONAL PERMIT ENGINEER MAY ALLOW USE OF A SMALL CONSTRUCTION MIXER CAPABLE OF PRODUCING CLSM HAVING THE SPECIFIED COMPRESSIVE STRENGTH AND FLOW CONSISTENCY. FOR CLSM PLACED UNDER SUCH CONDITIONS, MIX TIME IS MINIMUM OF 90 SECONDS AFTER ALL THE MATERIALS ARE IN THE MIXER DRUM.  
 2. OBSERVE PROPER SET TIME FOR CLSM BEFORE PLACING OVERLYING MATERIALS.

CLSM RESTRICTIONS:  
 1. DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS UNLESS THE ALUMINUM IS COATED WITH AN APPROVED PRIMER.  
 2. DO NOT PLACE CLSM CONTAINING FLY ASH (ITEM 204.01) IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS, USE CLSM WITH NO FLY ASH (ITEM 204.02).  
 3. THERE SHALL BE NO SAND IN THE CLSM MIX DESIGN.  
 4. THE WATER/CEMENT RATIO SHALL BE 0.36-0.40.

5 SIDEWALK REPAIR SECTION DETAIL SCALE: NTS



6 FIBER RISER DETAIL 11x17 SCALE: 1/4" = 1'-0" 24x36 SCALE: 1/2" = 1'-0"



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**WST\_WHP\_N002**

DESIGN TYPE: LIGHT POLE

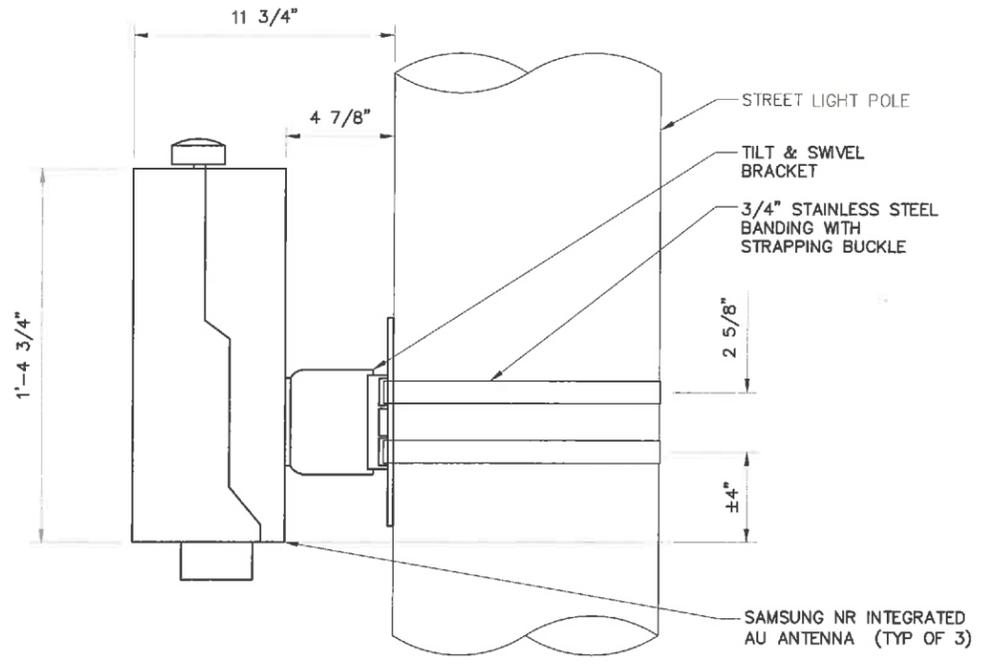
SHEET TITLE:  
 ANTENNA & EQUIPMENT SPECIFICATIONS & REPAIR DETAILS

SHEET NUMBER: C05 REV: 3

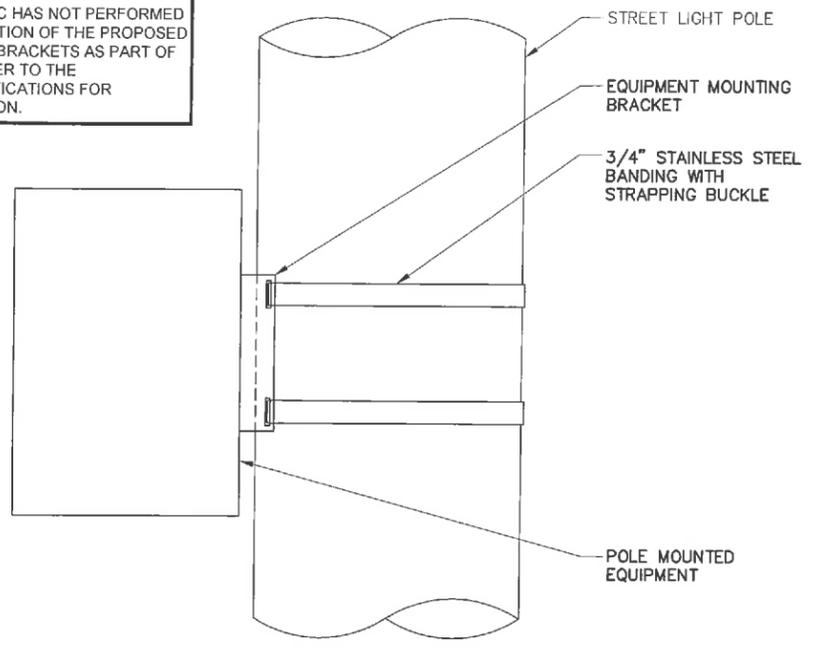
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NOTE:  
 KMB DESIGN GROUP, LLC HAS NOT PERFORMED A STRUCTURAL EVALUATION OF THE PROPOSED EQUIPMENT MOUNTING BRACKETS AS PART OF THIS APPLICATION. REFER TO THE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFORMATION.



**1 TILT BRACKET POLE MOUNT OPTION**

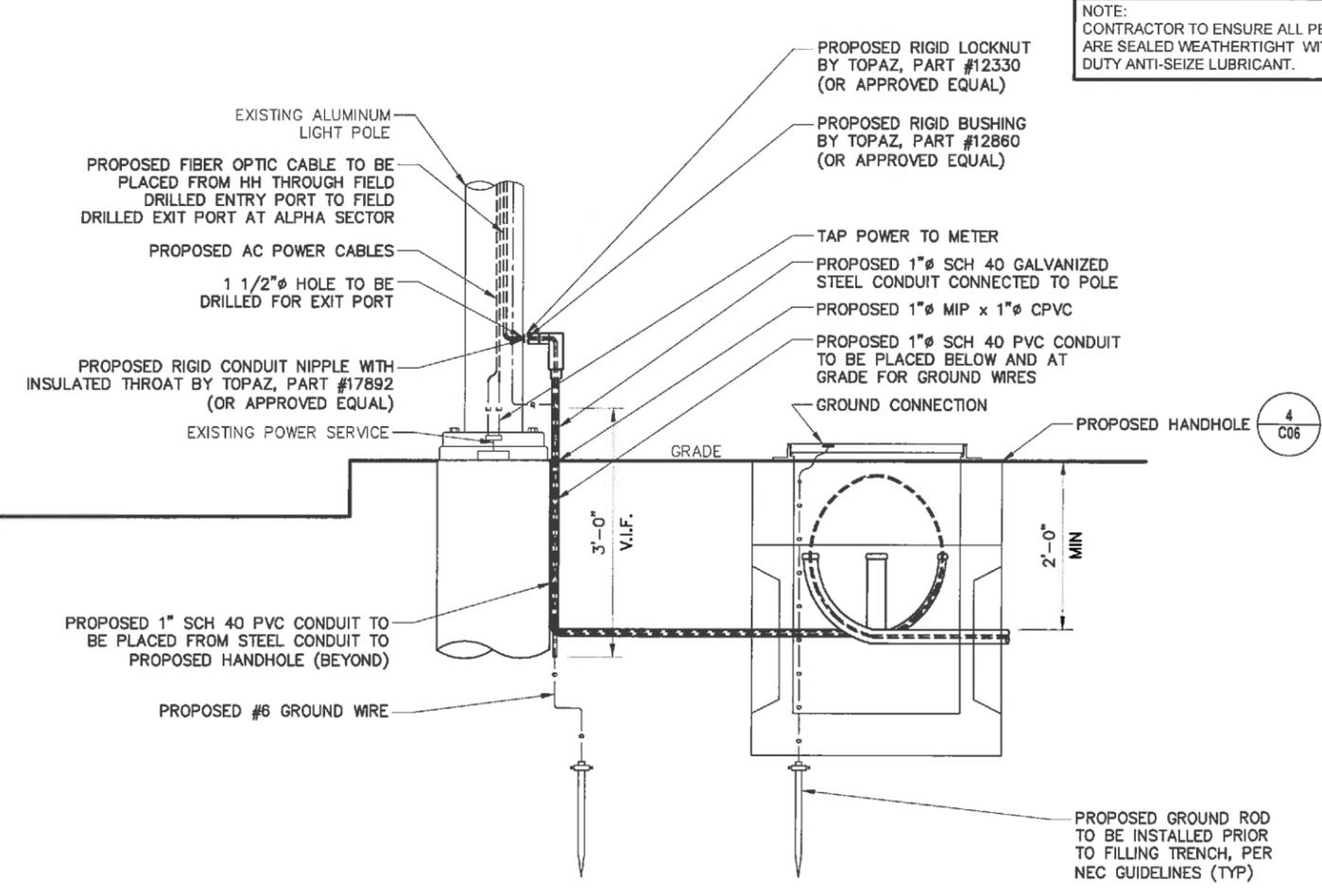
11x17 SCALE: 1 1/2" = 1'-0"

24x36 SCALE: 3" = 1'-0"

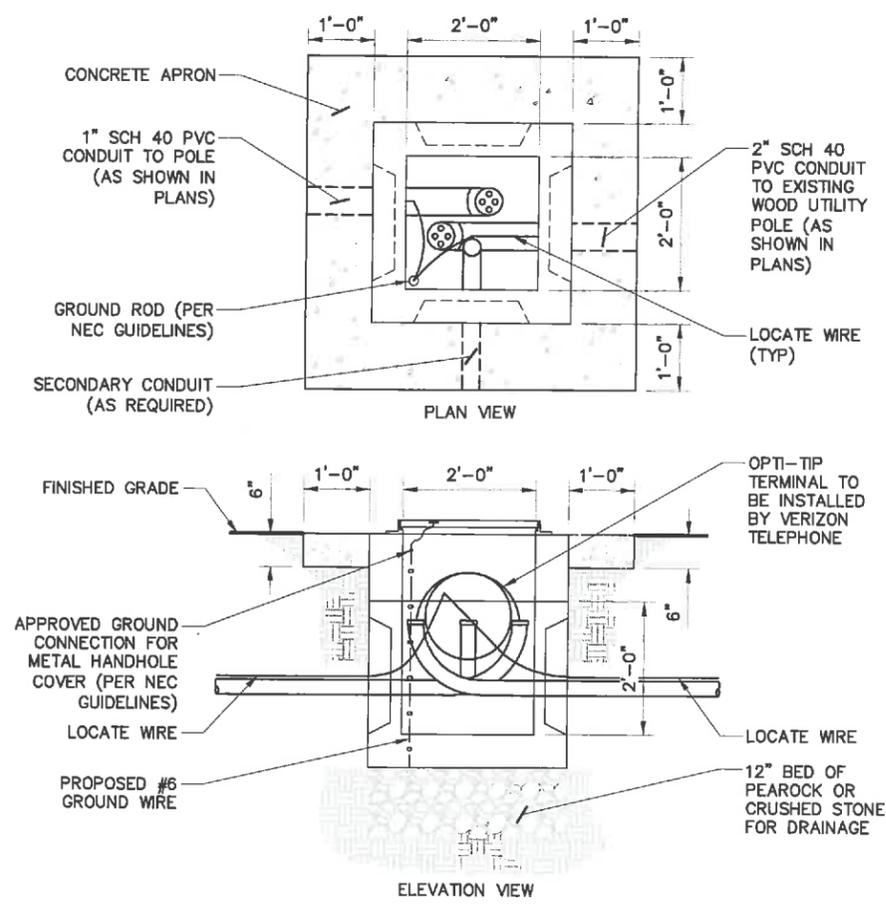
**2 EQUIPMENT MOUNTING DETAIL**

11x17 SCALE: 1 1/2" = 1'-0"

24x36 SCALE: 3" = 1'-0"



NOTE:  
 CONTRACTOR TO ENSURE ALL PENETRATIONS ARE SEALED WEATHERTIGHT WITH HEAVY DUTY ANTI-SEIZE LUBRICANT.



**3 CABLE ROUTING ELEVATION & TRENCH DETAIL**

11x17 SCALE: 1/2" = 1'-0"

24x36 SCALE: 1" = 1'-0"

**4 HAND HOLE DETAIL**

11x17 SCALE: 3/8" = 1'-0"

24x36 SCALE: 3/4" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER

NY LICENSE: 086064 2/1/22

PROJECT NUMBER: **321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

DESIGN TYPE: **WST\_WHP\_N002**

SHEET TITLE: **LIGHT POLE**

SHEET NUMBER: **ANTENNA MOUNTING DETAILS**

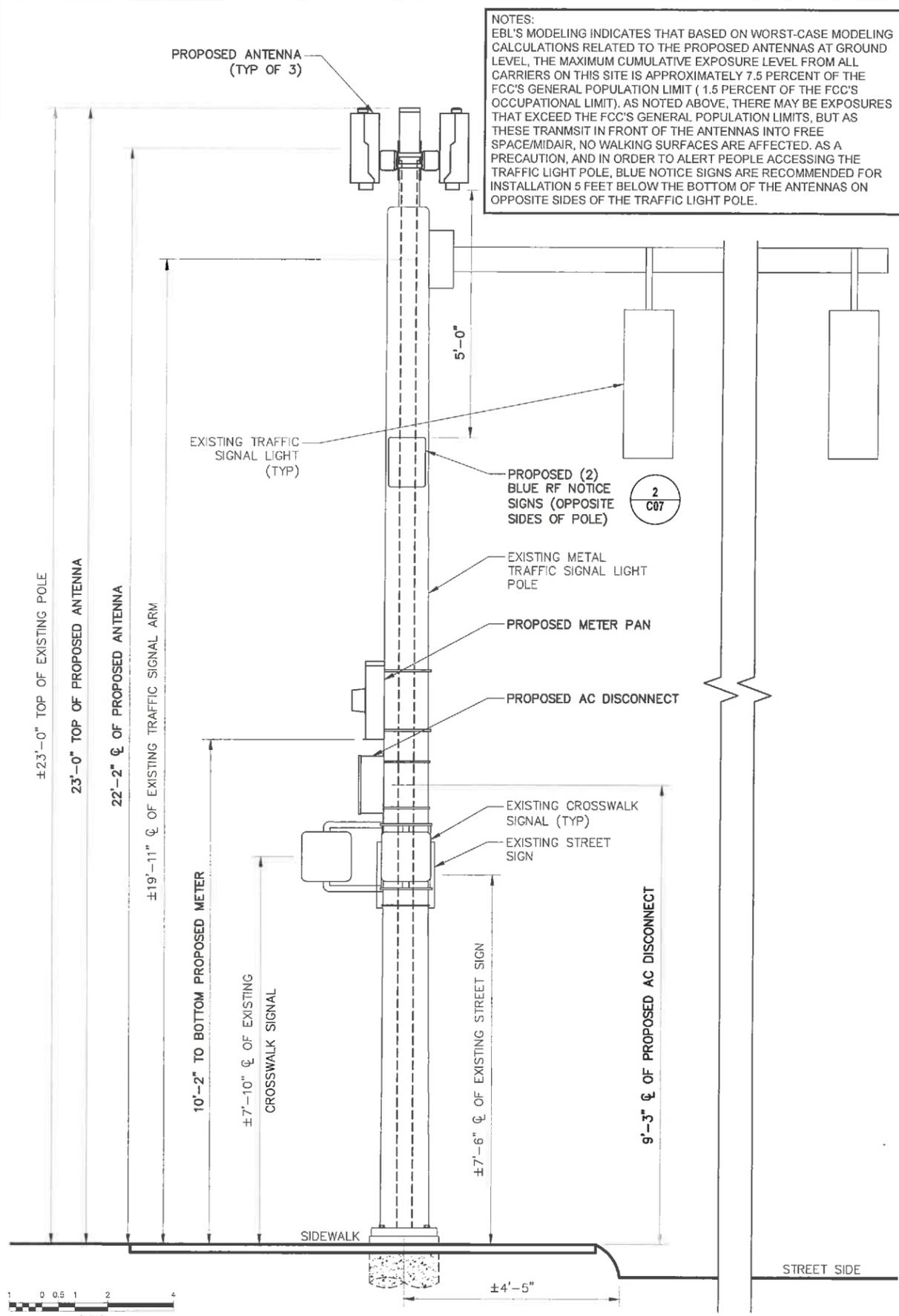
REV: **3**

**C06**

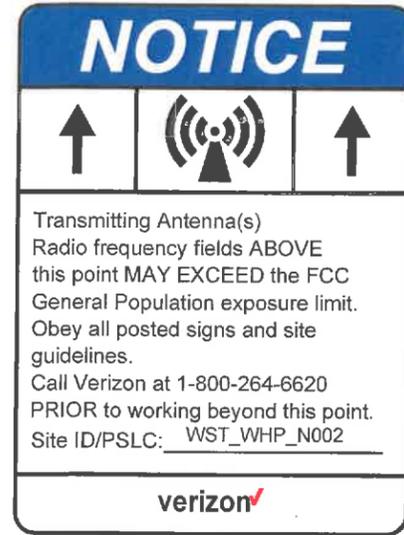
**3**

K:\321\_Verizon\321.5000\_SQUAN\321.5002\_White Plains\321.5002\_Z02\_Small Cell\321.5002\_Z02\_CAD\321.5002\_Z02\_Construction\321.5002\_Z02\_C06.dwg, 2/1/2022 2:23:11 PM, WSeebach

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NOTES:  
 EBL'S MODELING INDICATES THAT BASED ON WORST-CASE MODELING CALCULATIONS RELATED TO THE PROPOSED ANTENNAS AT GROUND LEVEL, THE MAXIMUM CUMULATIVE EXPOSURE LEVEL FROM ALL CARRIERS ON THIS SITE IS APPROXIMATELY 7.5 PERCENT OF THE FCC'S GENERAL POPULATION LIMIT ( 1.5 PERCENT OF THE FCC'S OCCUPATIONAL LIMIT). AS NOTED ABOVE, THERE MAY BE EXPOSURES THAT EXCEED THE FCC'S GENERAL POPULATION LIMITS, BUT AS THESE TRANSMIT IN FRONT OF THE ANTENNAS INTO FREE SPACE/MIDAIR, NO WALKING SURFACES ARE AFFECTED. AS A PRECAUTION, AND IN ORDER TO ALERT PEOPLE ACCESSING THE TRAFFIC LIGHT POLE, BLUE NOTICE SIGNS ARE RECOMMENDED FOR INSTALLATION 5 FEET BELOW THE BOTTOM OF THE ANTENNAS ON OPPOSITE SIDES OF THE TRAFFIC LIGHT POLE.



2 RF NOTICE  
 SCALE: NTS

1 MITIGATION DESIGN  
 11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



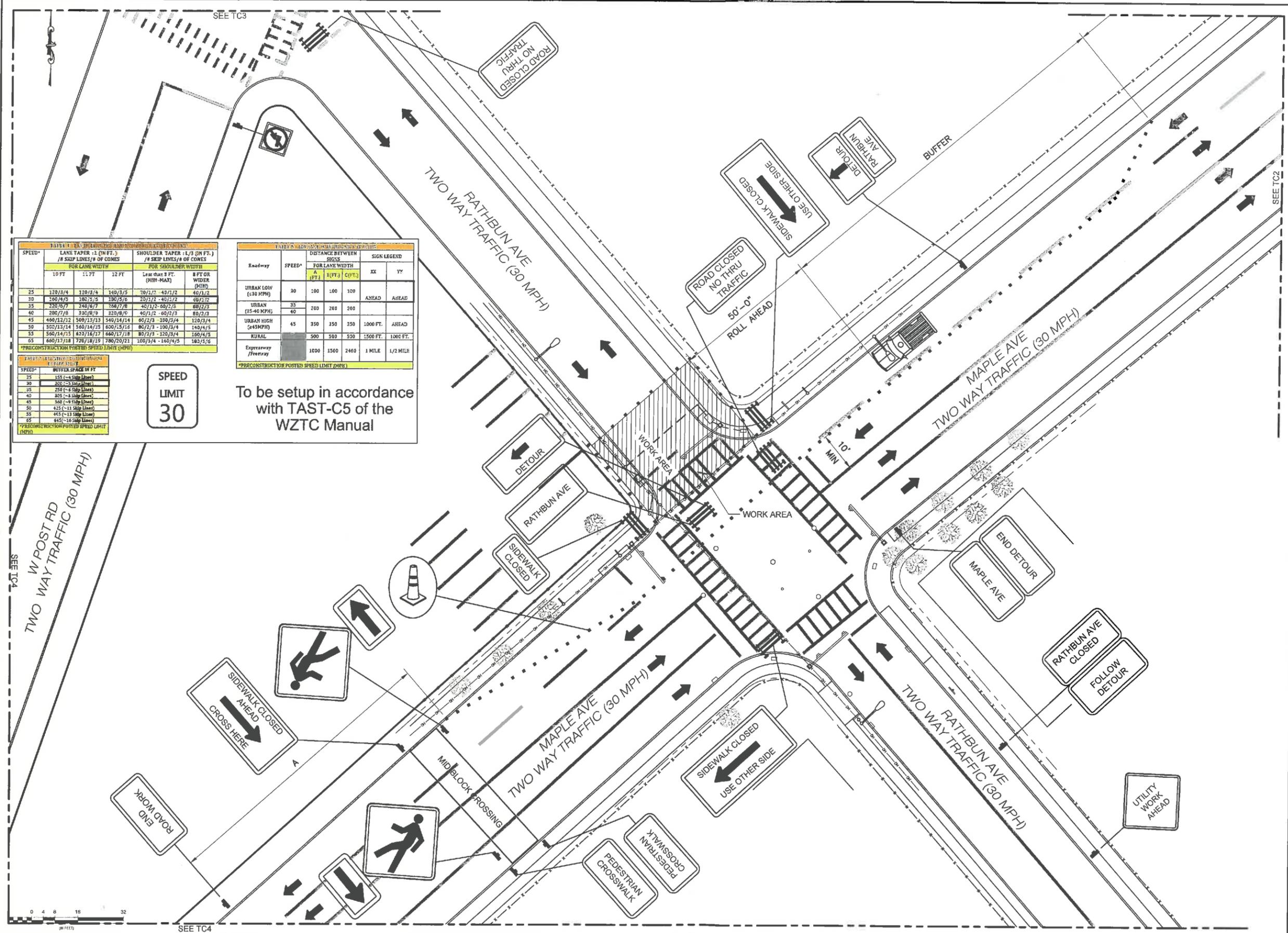
N.Y. CERTIFICATE OF AUTHORIZATION: 081784

**Stephen A. Bray**  
 PROFESSIONAL ENGINEER  
 NY LICENSE: 086064 2/1/22

PROJECT NUMBER: <b>321.5002.Z02</b>
SITE INFORMATION: 5 RATHBUN AVENUE WHITE PLAINS, NY 10606  <b>WST_WHP_N002</b>
DESIGN TYPE: LIGHT POLE
SHEET TITLE: MITIGATION DESIGN
SHEET NUMBER: <b>C07</b>
REV: <b>3</b>

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SPEED*	LAKE TAPER - 1:1 (IN FT.) / # SKIP LINES/# OF CONES		SHOULDER TAPER - 1:3 (IN FT.) / # SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR SHOULDER WIDTH	FOR LANE WIDTH	FOR SHOULDER WIDTH
25	120/3/4	120/3/4	140/3/5	10/1/2 - 43/1/2
30	150/4/5	150/5/5	180/5/6	20/1/2 - 49/1/2
35	220/6/7	240/6/7	360/7/8	40/1/2 - 60/2/3
40	300/7/8	320/8/9	450/9/10	40/1/2 - 60/2/3
45	480/12/12	500/13/13	540/14/14	80/2/3 - 100/3/4
50	500/13/14	560/14/15	600/15/16	80/2/3 - 100/3/4
55	560/14/15	620/16/17	660/17/18	80/2/3 - 100/3/4
65	660/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5

SPEED*	WIDENING TAPER - 1:1 (IN FT.) / # SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR SHOULDER WIDTH
25	155 (-4 Skip Lines)	155 (-4 Skip Lines)
30	205 (-5 Skip Lines)	205 (-5 Skip Lines)
35	255 (-6 Skip Lines)	255 (-6 Skip Lines)
40	305 (-7 Skip Lines)	305 (-7 Skip Lines)
45	360 (-8 Skip Lines)	360 (-8 Skip Lines)
50	425 (-11 Skip Lines)	425 (-11 Skip Lines)
55	495 (-13 Skip Lines)	495 (-13 Skip Lines)
65	645 (-16 Skip Lines)	645 (-16 Skip Lines)

Roadway	SPEED*	DISTANCE BETWEEN SIGNS FOR LAKE WIDTH			SIGN LEGEND	
		X (FT.)	Y (FT.)	ZZ (FT.)	XX	YY
URBAN LOW (<30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	35	200	200	200		
URBAN HIGH (>45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.	
Expressway / Freeway	1000	1500	2400	1 MILE	1/2 MILE	

**SPEED LIMIT 30**

To be setup in accordance with TAST-C5 of the WZTC Manual



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER: **321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

**WST\_WHP\_N002**

DESIGN TYPE: **LIGHT POLE**

SHEET TITLE: **VEHICULAR TRAFFIC CONTROL PLAN**

SHEET NUMBER: **TC1** REV: **3**

1 VEHICULAR TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

K:\321\_Verizon\_321.5000\_SQUAN\321.5002\_White\_Plains\321.5002.Z02\_Small\_Cell\321.5002.Z02\_Small\_Cell\321.5002.Z02\_TC1.dwg, 2/1/2022 2:25:34 PM, WSeebach

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SPEED*	LANE TAPER - L (IN FT.) / # SKIP LINES/# OF CONES		SHOULDER TAPER - L/2 (IN FT.) / # SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR SHOULDER WIDTH	Less than 8 FT. (MIN - MAX)	8 FT OR WIDER (MIN)
35	120/3/4	120/3/4	140/3/5	20/1/2 - 40/1/2
30	150/4/5	180/5/6	180/5/6	20/1/2 - 40/1/2
35	220/6/7	240/6/7	260/7/8	40/1/2 - 60/2/3
40	280/7/8	300/8/9	320/8/9	40/1/2 - 60/2/3
45	400/11/12	500/13/14	500/14/15	80/2/3 - 120/3/4
50	500/13/14	560/14/15	600/15/16	80/2/3 - 120/3/4
55	560/14/15	620/15/17	660/17/18	80/2/3 - 120/3/4
65	660/17/18	720/18/19	780/19/21	100/3/4 - 140/4/5

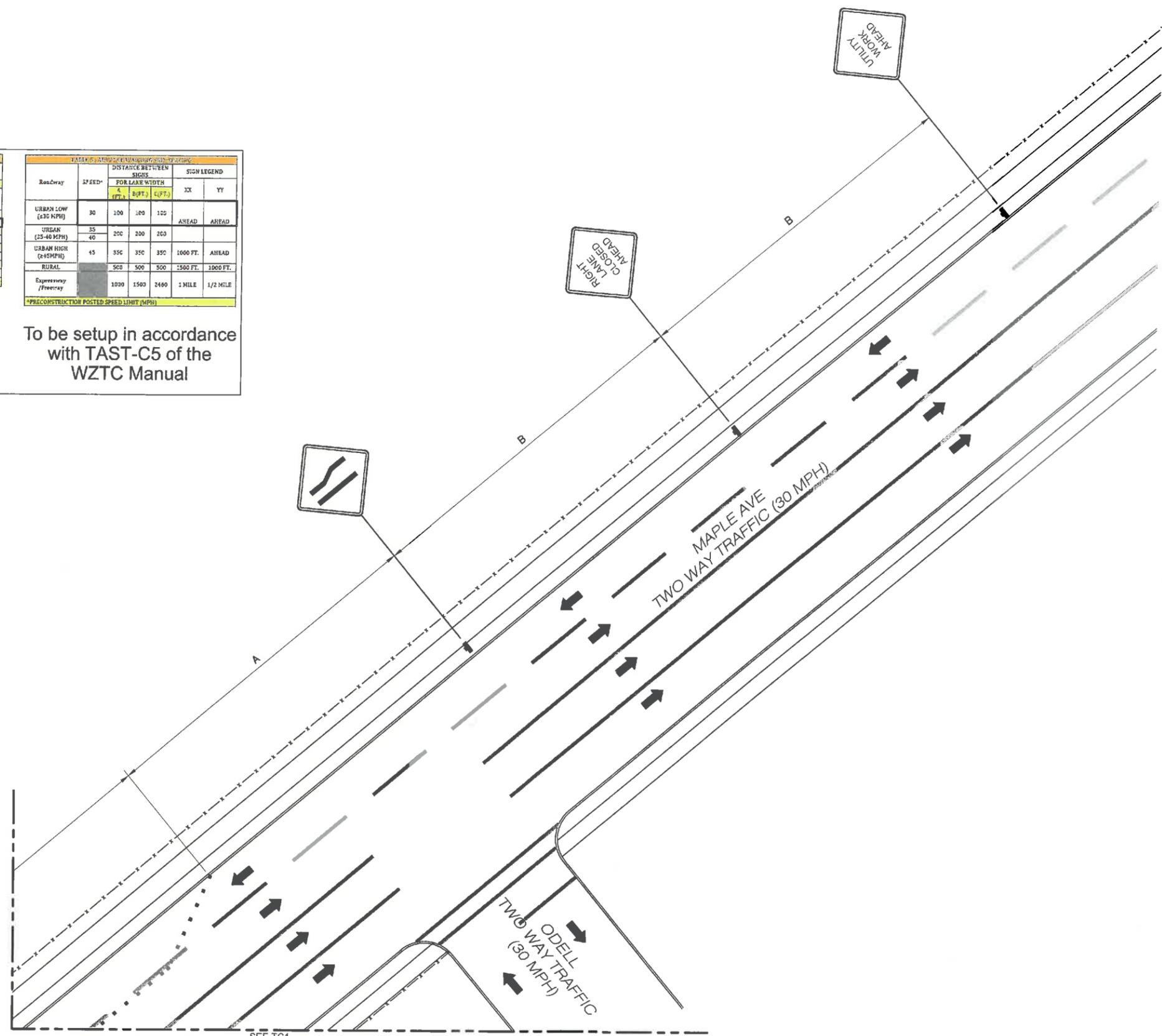
\*PRECONSTRUCTION POSTED SPEED LIMIT (MPS)

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (25-40 MPH)	35	200	200	200		
URBAN HIGH (45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	500	1500 FT.	1000 FT.
Expressway / Freeway	1000	1500	2400	1 MILE	1 MILE	1/2 MILE

\*PRECONSTRUCTION POSTED SPEED LIMIT (MPS)

**SPEED LIMIT 30**

To be setup in accordance with TAST-C5 of the WZTC Manual



1 VEHICULAR TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
5	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

**WST\_WHP\_N002**

DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER: REV.:

**TC2 3**

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3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	06-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-16-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY



**KMB**  
DESIGN GROUP  
kmbdg.com

1800 ROUTE 34, SUITE 209  
WALL, NJ 07719  
(732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784



STATE OF NEW YORK  
STEPHEN A. BRAY  
LICENSED PROFESSIONAL ENGINEER  
086064

**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

**WST\_WHP\_N002**

DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
VEHICULAR  
TRAFFIC CONTROL PLAN

SHEET NUMBER:  
**TC3**

REV:  
**3**

TABLE 3 - TAPER LENGTH AND NUMBER OF CONES

SPEED*	LANE TAPER - L (IN FT.) /# SKIP LINES/# OF CONES		SHOULDER TAPER - L/S (IN FT.) /# SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR SHOULDER WIDTH	FOR SHOULDER WIDTH	FOR SHOULDER WIDTH
25	120/3/4	120/3/4	140/3/5	20/1/2 - 45/1/2
30	180/4/5	180/4/5	180/3/5	20/1/2 - 45/1/2
35	220/4/7	240/5/7	200/7/8	40/1/2 - 50/1/2
40	280/7/8	320/8/9	320/8/9	40/1/2 - 50/1/2
45	400/12/12	500/15/13	540/14/14	60/2/3 - 100/3/4
50	500/13/14	560/14/13	600/15/16	80/2/3 - 100/3/4
55	560/14/15	620/15/17	660/17/18	80/2/3 - 100/3/4
65	660/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5

\*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

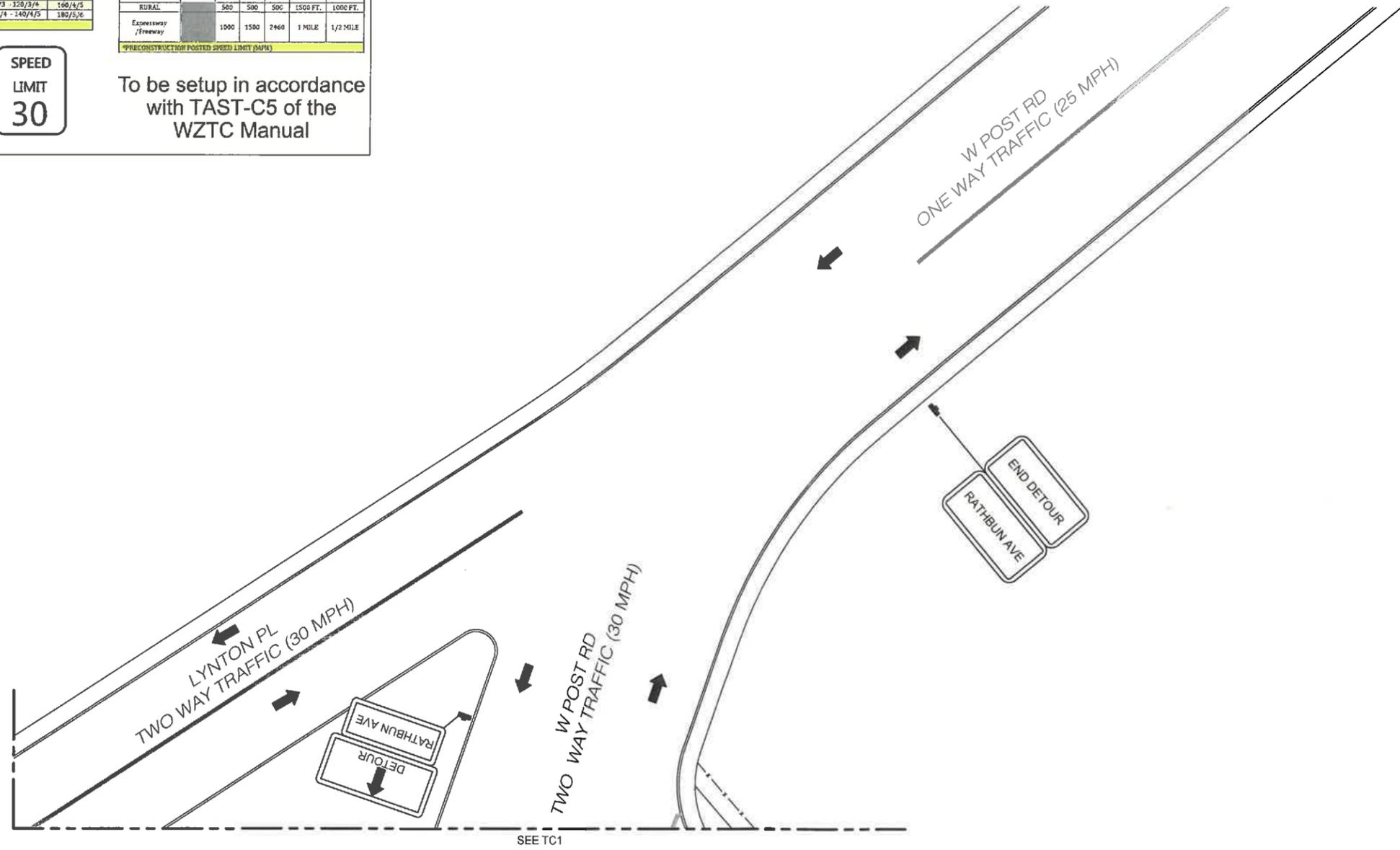
TABLE 5 - APPROXIMATE SIGN SPACING

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (≤30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (33-40 MPH)	35	200	200	200		
URBAN HIGH (45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	50	500	500	500	1500 FT.	1000 FT.
Expressway / Freeway	1000	1500	2400	1 MILE	1 MILE	1/2 MILE

\*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

**SPEED LIMIT 30**

To be setup in accordance with TAST-C5 of the WZTC Manual



SEE TC3

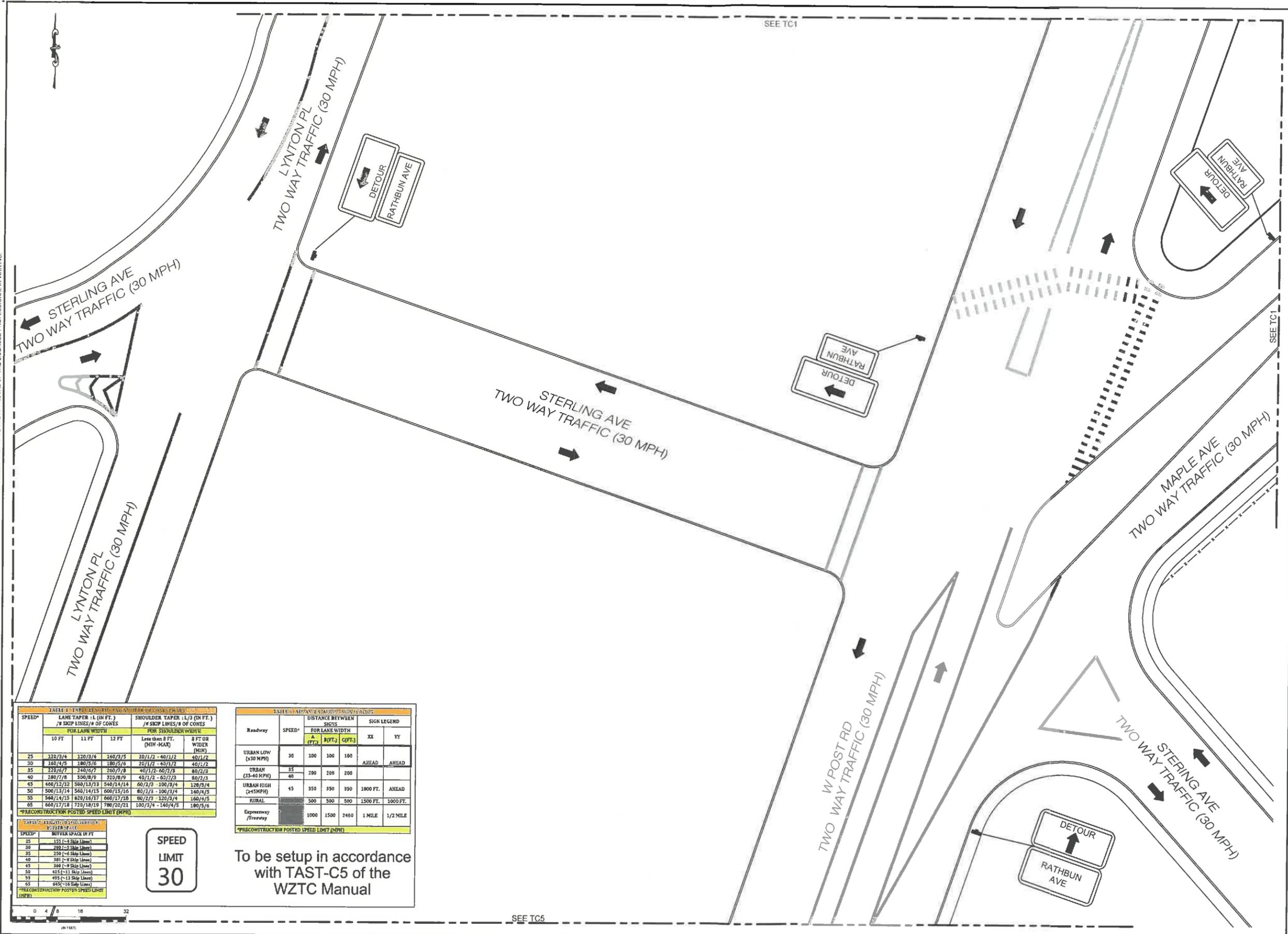
1 VEHICULAR TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"

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SEE TC1

SEE TC1

SEE TC5

**TABLE 1: TAPER LENGTHS AND NUMBER OF CONES**

SPEED*	LANE TAPER : L (IN FT.) / # SKIP LINES / # OF CONES			SHOULDER TAPER : L/3 (IN FT.) / # SKIP LINES / # OF CONES	
	10 FT	11 FT	12 FT	Less than 8 FT. (MIN-MAX)	8 FT OR WIDER (MIN)
25	320/3/4	320/3/4	340/3/5	25/1/2 - 40/1/3	40/1/2
30	160/4/5	180/5/6	180/5/6	25/1/2 - 40/1/2	40/1/2
35	220/6/7	240/6/7	260/7/8	40/1/2 - 60/2/3	60/2/3
40	240/7/8	300/8/9	310/8/9	40/1/2 - 60/2/3	60/2/3
45	460/12/12	500/13/13	540/14/14	60/2/3 - 100/3/4	120/3/4
50	500/13/14	540/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	540/14/15	620/16/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	650/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5	180/5/6

**TABLE 2: APPROVED SIGN SPACING**

Roadway	SPEED*	DISTANCE BETWEEN SIGNS FOR LANE WIDTH			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (≤30 MPH)	30	100	100	180	AHEAD	AHEAD
	35	200	200	200		
URBAN HIGH (>45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL	50	500	500	500	1500 FT.	1000 FT.
	65	1000	1500	2400	1 MILE	1/2 MILE

To be setup in accordance with TAST-C5 of the WZTC Manual



**TABLE 3: BUFFER SPACE IN FT.**

SPEED*	BUFFER SPACE IN FT.
25	155 (-4 Skip Lines)
30	200 (-5 Skip Lines)
35	250 (-6 Skip Lines)
40	305 (-8 Skip Lines)
45	360 (-9 Skip Lines)
50	425 (-11 Skip Lines)
55	495 (-13 Skip Lines)
65	645 (-16 Skip Lines)



1 VEHICULAR TRAFFIC CONTROL PLAN

11x17 SCALE: 1/32" = 1'-0" 24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	05-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER: **321.5002.Z02**

SITE INFORMATION:  
5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606

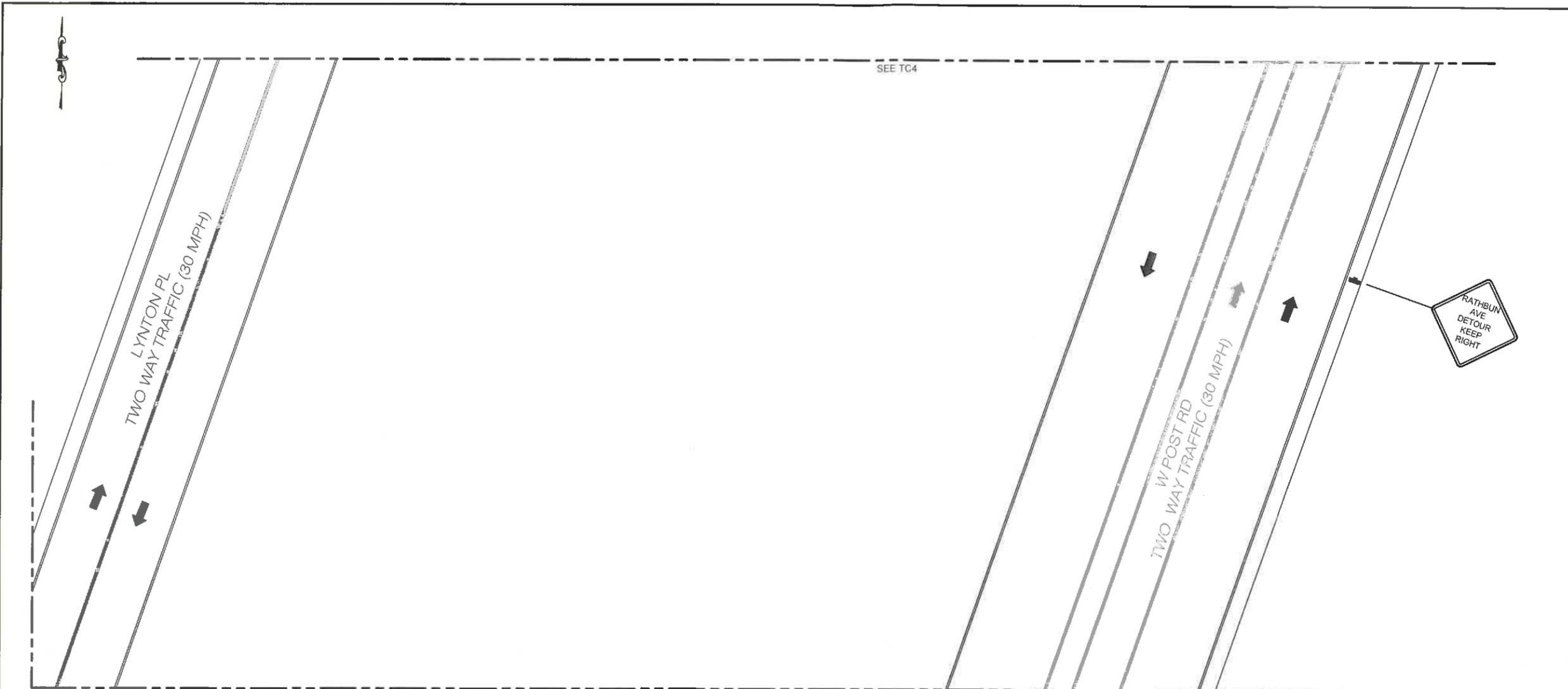
DESIGN TYPE: LIGHT POLE

SHEET TITLE: VEHICULAR TRAFFIC CONTROL PLAN

SHEET NUMBER: TC4 REV: 3

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3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
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REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY

**KMB**  
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 (732) 280-5623

N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
 PROFESSIONAL ENGINEER  
 NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
**5 RATHBUN AVENUE  
 WHITE PLAINS, NY 10606**

**WST\_WHP\_N002**

DESIGN TYPE:  
**LIGHT POLE**

SHEET TITLE:  
**VEHICULAR  
 TRAFFIC CONTROL PLAN**

SHEET NUMBER:  
**TC5**

REV:  
**3**

**TABLE 1 - TAPER LENGTHS AND NUMBER OF CONES CHART**

SPEED*	LANE TAPER - 1:1 (IN FT.) / # SKIP LINES/# OF CONES			SHOULDER TAPER - 1:3 (IN FT.) / # SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR LANE WIDTH	12 FT	Lean Slope 8 FT. (MIN - MAX)	8 FT OR WIDER (MIN)
25	120/3/4	120/3/4	140/3/5	29/1/2 - 49/3/2	45/1/2
30	160/4/5	180/5/6	180/5/6	35/1/2 - 40/3/2	40/1/2
35	220/6/7	240/6/7	260/7/8	48/1/2 - 60/2/3	80/2/3
40	280/7/8	320/8/9	320/8/9	45/1/2 - 60/2/3	80/2/3
45	440/12/12	503/13/13	540/14/14	66/2/3 - 100/3/4	120/3/4
50	500/13/14	563/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	540/14/15	620/16/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	640/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5	180/5/6

**TABLE 2 - SIGN LEGEND**

Roadway	SPEED*	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (≤30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH)	35	200	200	200		
URBAN HIGH (≥45 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL		500	500	500	1500 FT.	1000 FT.
Expressway / Freeway		1000	1500	2400	1 MILE	1/2 MILE



To be setup in accordance with TAST-C5 of the WZTC Manual

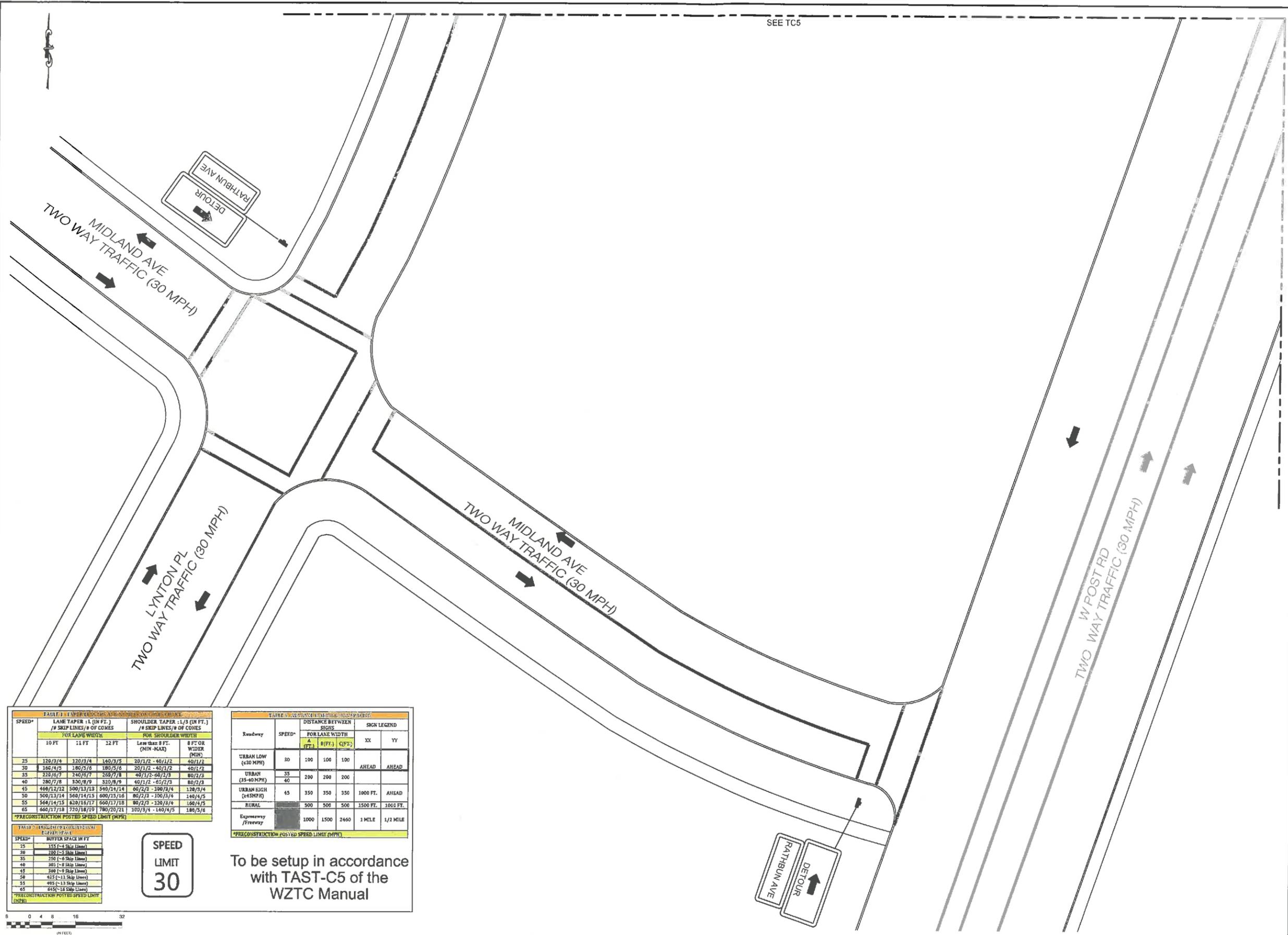


**1 VEHICULAR TRAFFIC CONTROL PLAN**

11x17 SCALE: 1/32" = 1'-0"      24x36 SCALE: 1/16" = 1'-0"

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SEE TC5



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**TABLE 1 - LANE TAPER AND SHOULDER TAPER**

SPEED*	LANE TAPER -L (IN FT.) /# SKIP LINES/# OF CONES			SHOULDER TAPER -L/3 (IN FT.) /# SKIP LINES/# OF CONES	
	FOR LANE WIDTH	FOR LANE WIDTH	FOR LANE WIDTH	FOR SHOULDER WIDTH	FOR SHOULDER WIDTH
	10 FT	11 FT	12 FT	Less than 8 FT. (MIN - MAX)	8 FT OR WIDER (MIN)
25	120/3/4	120/3/4	140/3/5	20/1/2 - 40/1/2	40/1/2
30	160/4/5	180/5/6	180/5/6	20/1/2 - 40/1/2	40/1/2
35	220/6/7	240/8/7	260/7/8	40/1/2 - 60/2/3	80/2/3
40	280/7/8	320/9/9	320/9/9	40/1/2 - 60/2/3	80/2/3
45	400/12/12	500/13/13	540/14/14	60/2/3 - 100/3/4	140/4/5
50	500/13/14	560/14/15	600/15/16	80/2/3 - 100/3/4	140/4/5
55	560/14/15	620/15/17	660/17/18	80/2/3 - 120/3/4	160/4/5
65	660/17/18	720/18/19	780/20/21	100/3/4 - 140/4/5	180/5/6

\*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

**TABLE 2 - DISTANCE BETWEEN SIGNS**

Roadway	SPEED*	FOR LANE WIDTH			SIGN LEGEND	
		A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN LOW (<30 MPH)	30	100	100	100	AHEAD	AHEAD
URBAN (31-40 MPH)	35	200	200	200		
URBAN HIGH (>40 MPH)	45	350	350	350	1000 FT.	AHEAD
RURAL		500	500	500	1500 FT.	1000 FT.
Expressway /Freeway		1000	1500	2400	1 MILE	1/2 MILE

\*PRECONSTRUCTION POSTED SPEED LIMIT (MPH)

**SPEED LIMIT 30**

To be setup in accordance with TAST-C5 of the WZTC Manual



**1 VEHICULAR TRAFFIC CONTROL PLAN**

11x17 SCALE: 1/32" = 1'-0"    24x36 SCALE: 1/16" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064    2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
**5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606**

DESIGN TYPE:  
**WST\_WHP\_N002**

DESIGN TYPE:  
**LIGHT POLE**

SHEET TITLE:  
**VEHICULAR TRAFFIC CONTROL PLAN**

SHEET NUMBER:  
**TC6**

REV.:  
**3**

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**General**

The construction document drawings are interrelated. When performing the work, each contractor must refer to all drawings. Coordination is the responsibility of the general contractor.

**General Requirements**

**Part 1 - General**

- Obtain and submit releases enabling the owner unrestricted use of the work and access to services and utilities, include occupancy permits, operating certificates and similar releases.
- Submit record drawings, damage or settlement survey, property survey, and similar final record information.
- Complete final clean up requirement, including touch-up painting. Touch up and otherwise repair and restore marred exposed finishes.

**Part 2 - Final Cleaning**

- Complete the following cleaning operations before requesting inspection for certification on completion.
  - Clean the project site, yard and grounds in areas disturbed by construction activities, including landscape development area, of rubbish, waste materials, litter and foreign substances. Sweep paved areas broom clean. Remove petro-chemical spills, stains and other foreign deposits. Rake grounds that are neither planted nor paved, to a smooth even-textured surface.
  - Remove tools, construction equipment, machinery and surplus material from the site.
  - Remove snow and ice to provide safe access to the site and equipment enclosure.
  - Clean exposed exterior hard surfaced finishes to a dirt-free condition, free of stains, films and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces.
  - Remove debris from limited access spaces, including handholes, manholes, and similar spaces.
  - Remove labels that are not permanent labels.
  - Touch up and otherwise repair and restore marred exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored, or that show evidence of repair or restoration. Do not paint over "UL" and similar labels, including electrical name plates.
  - Leave the project clean and ready for occupancy.
    - Dust off all equipment and items within equipment enclosure.
- Removal of protection: Remove temporary protection and facilities installed during construction to protect previously completed installations during the remainder of the construction period.

**Site Work**

**Part 1 - General**

- Work included: See site plan.
- Descriptions: If applicable, lease area, and underground utility easements are to be constructed to provide a well drained, easily maintained, even surface for use and access.
- Quality Assurance
  - Apply soil sterilizer in accordance with manufacturer's recommendations (as needed).
  - Apply and maintain grass seed as recommended by the seed producer (if required).
  - Place and maintain vegetation landscaping, if included within the contract, as recommended by nursery industry standards.
- Sequencing
  - Confirm survey stakes and set elevation stakes prior to any construction.
  - Construct temporary construction area designated area to be approved by construction manager and local authorities.
  - Apply soil sterilizer prior to placing base materials.
  - Grade, seed, fertilize, and mulch all areas disturbed by construction (including underground utility easements) immediately after bringing lease area to base course elevation, water to ensure growth.
  - After applications of final surfaces, apply soil sterilizer to stone surfaces.
- Submittals
  - Before construction: If landscaping is applicable to the contract, submit two copies of the landscape plan on nursery letterhead. If a landscape allowance was included in the contract, provide an itemized listing of proposed costs on nursery letterhead.
  - After construction
    - Manufacturer's description of product and warranty statement on soil sterilizer.
    - Manufacturer's description of product on grass seed and fertilizer.
    - Landscaping warranty statement
- Warranty
  - In addition to the warranty on all construction covered in the contract documents, the contractor shall repair all damage and restore area as close to original condition as possible at site and surroundings.
  - Soil sterilization application to guarantee vegetation free areas for one year from date of final inspection.
  - Disturbed area will reflect growth of new grass cover prior to final inspection.
  - Landscaping, if included within the scope of the contract, will be guaranteed for one year from date of final inspection.

**Part 2 - Products**

- Materials
  - Soil sterilizer shall be EPA-registered, pre-emergence liquid:
 

Total Kill Product 910 EPA 10292-7 (313) 563-8000	Phasor Corporation P.O. Box 5123 Dearborn, MI 48128
Ambush Herbicide EPA Registered (800) 528-4924	Framar Industrial Products 1435 Morris Ave Union, NJ 07093
  - Road and site materials shall conform to state and local DOT specifications fill material (unless otherwise noted) - acceptable select fill shall be in accordance with state department of highway and transportation standard specifications.
  - Soil stabilizer fabric shall be Mirafi 500x.

**Part 3 - Execution**

- Inspections: Local building inspectors shall be notified no less than 48 hours in advance of concrete pours, unless otherwise specified by jurisdiction.
- Preparation
  - Clear brush and debris from lease area and underground utility easements as required for construction.
  - Unless otherwise instructed by lessee, transport all removed trees, brush and debris from the property to an authorized landfill.
  - Prior to placement of fill or base materials, roll the soil.
  - Where unstable soil conditions are encountered, line the areas with stabilizer mat prior to placement of fill or base material.
- Installation
  - Clear excess spoils, if any, from job site and do not spread beyond the limits of project area unless authorized by project manager and agreed to by landowner.
  - Place fill or stone in six inch (6") maximum lifts, and compact before placing next lift.
  - Apply seed, fertilizer, and straw cover to all other disturbed areas, ditches, and drainage swales, not otherwise ripped.
  - Apply seed and fertilizer to surface conditions which will encourage rooting, rake areas to be seeded to even the surface and loosen the soil.
  - Sow seed in two directions in twice the quantity recommended by the seed producer.
  - Ensure growth of seeded and landscaped area, by watering, up to the point of release from the contract. Continue to rework the bare areas until complete coverage is obtained.
- Field quality control: Compact soils to maximum density in accordance with ASTM D-1557. Areas of settlement will be excavated and refilled at contractor's expense. Indicate percentage of compaction achieved on as-built drawings.
- Protection
  - Protect seeded areas from erosion by spreading straw to a uniform loose depth of 1-2 inches, stake and tie down as required. Use of erosion control mesh or mulch net will be an acceptable alternate.
  - Protect all exposed areas against washouts and soil erosion. Place straw bales at the inlet approach to all new or existing culverts. Where the site or road areas have been elevated immediately adjacent to the rail line, stake erosion control fabric full length in the swale to prevent contamination of the rail ballast. All erosion control methods shall conform to applicable building code requirements.

**Electrical**

- Contractor shall review the contract documents prior to ordering the electrical equipment and starting the actual construction. Contractor shall issue a written notice of all findings to the architect/engineer listing any discrepancies or conflicting information.
- Electrical plans, details and diagrams are diagrammatic only. Verify exact locations and mounting heights or electrical equipment with owner prior to installation.
- Each conductor of every system shall be permanently tagged in each panelboard, pullbox, junction box, switch box, etc. The type of tagging methods shall be in compliance with Occupational Safety and Health Administration (O.S.H.A.)
- All materials and equipment shall be new and in good working condition when installed and shall be of the best grade and of the same manufacturer throughout for each class or group of equipment. Materials shall be listed "U.L." where applicable. Materials shall meet with approval of all governing bodies having jurisdiction. Materials shall be manufactured in accordance with applicable standards established by ANSI, NEMA, NBFU and "U.L." listed.
- All conduit shall have a pull cord.
- Provide project manager with one set of complete electrical "as installed" drawings at the completion of the job, showing actual dimensions, routings, and circuits.
- All circuit breakers, fuses and electrical equipment shall have an interrupting short circuit current to which they may be subjected, and a minimum of 10,000 A.I.C.

- The entire electrical installation shall be grounded as required by IBC, NEC and all applicable codes.
- Patch, repair and paint any area that has been damaged in the course of the electrical work.
- Plastic plates for all switches, receptacles, telephone and blanked outlets shall have engraved lettering where indicated on the drawings. weatherproof receptacles shall have Sierra #WPD-8 lift coverplates.

**Service and Distribution**

- Wire and cable conductors shall be copper, 600V, type THHN or THWN, with a min. size of #12 AWG, color coded.
  - Meter socket ampers, voltage, number of phases shall be noted on the drawings. Manufactured by Milbank or approved equal, and shall be utility company approved.
  - Conduit:
    - Rigid conduit shall be U.L. label galvanized zinc coated with galvanized zinc interior and shall be used when installed in or under concrete slabs, in contact with the earth, under public roadways, in masonry walls or exposed on building exterior. Rigid conduit in contact with earth shall be 1/2 lapped wrapped with Hunts wrap process no. 3.
    - Flexible metallic conduit shall have U.L. listed label and may be used where permitted by code. Fittings shall be "jake" or "squeeze" type. All flexible conduits shall have full length ground wire.
    - It is required and will be the responsibility of the electrical contractor to notify 811 or other such utility locating agency 3 days before digging.
  - Contractor to coordinate with utility company for connection of temporary and permanent power to the site. The temporary power and all hookup costs are to be paid by the contractor.
  - All electrical equipment shall be labeled with permanent engraved plastic labels with white on blue background lettering (minimum letter height shall be one fourth inch (1/4"). Nameplates shall be fastened with stainless steel screws, not adhesive.
  - Upon completion of work, continuity, short circuit, and fall potential grounding tests shall be completed by electrical contractor. Results and reports to be supplied as part of closeout package. Clean premises of all debris resulting from work and leave work in a complete and undamaged condition.
  - Grounding electrode system
    - Preparation
      - Surface preparation: All connections shall be made to bare metal. All painted surfaces shall be field inspected and modified to ensure proper contact. No washers are allowed between the items being grounded. All connections are to have a non-oxidizing agent applied prior to installation.
      - If conductors must run through conduit, both ends of conduit shall be grounded. Seal both ends of conduit with silicone caulk.
    - External connections
      - If conductors must run through conduit, both ends of conduit shall be grounded. Seal both ends of conduit with silicone caulk. All buried grounding connections shall be made by the exothermic weld process. Connections shall include all cable to cable, splices, tee's, crosses, etc. all cable to ground rods, ground rod splices and lightning protection systems are to be as indicated. All materials used (molds, welding metal, tools, etc.) shall be "ultraweld" and installed per manufacturer's recommended procedures.
      - All above grade grounding and bonding conductors shall be connected by two hole crimp type (compression) connections (except for the ACEG and ground rod). Mechanical connections, fittings or connections that depend solely on solder shall not be used. All cable to cable connections shall be high pressure double crimp type connections. Connections to structural steel shall be exothermic welds.
    - Ground rods: All ground rods shall be 5/8-inch diameter x 10'-0" long "copperweld" or approved equal, of the number and locations indicated. Ground rods shall be driven full length vertical in undisturbed earth.
    - Ground conductors: All ground conductors shall be standard tinned solid bare copper annealed, and of size indicated on drawings unless otherwise noted.
    - Lugs
      - Lugs shall be 2-hole, long barrel, strand copper unless otherwise specified in the contract documents. Lugs shall be Thomas and Betts series #54\_\_BE or equivalent
- | Grounding conductor size | Minimum bending radius to inside edge |
|--------------------------|---------------------------------------|
| No. 6 AWG to No. 4 AWG   | 6 inches                              |
| No. 2 AWG to No. 1/0 AWG | 8 inches                              |
| No. 2/0 AWG to 4/0 AWG   | 12 inches                             |
| 250 MCM to 750 MCM       | 24 inches                             |
- \* When the direction of the conductor must change, it shall be done gradually. The curvature of the turn shall be done in accordance with the following chart:

- Grounding resistance test report: Upon completion of the testing for each site, a test report showing resistance in OHMS must be submitted. Two (2) sets of test documents from the independent testing service are to be bound and submitted within one (1) week of work completion.

**Poles, Posts, and Standards (Single mast and self supporting towers)**

- General
  - Lightning rod and extension pipe including all appurtenances, to be furnished by owner, if required.
  - NP. Grounding: Ground metal poles with a minimum of #2 AWG tinned solid bare copper conductor cadwelded to tower base plate.

**Telecommunications Wiring Components (Fiber optic cable)**

- General
  - All materials, products or procedures incorporated into work shall be new and of standard commercial quality.
  - All materials and products specified in the contract documents shall be supplied by the contractor unless noted otherwise.
- Materials:
  - Fiber optic cable:
    - Install fiber optic cable and terminations between antennas and equipment per manufacturer's recommendations with fiber optic cables supported at no more than 3'-0" o.c. weatherproof all connectors between the antenna and equipment per manufacturer's requirements. Terminate all fiber optic cable three feet (3') in excess of equipment location unless otherwise stated.
- All equipment shall be installed as per manufacturer's instruction and utilizing manufacturer's approved hardware and methods.



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3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB	
2	09-23-21	REVISED PER CLIENT COMMENTS	RC	JRB	
1	06-15-21	REVISED PER CLIENT COMMENTS	RC	JRB	
0	03-18-21	INITIAL SUBMISSION NOT FOR CONSTRUCTION	RC	JRB	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
**5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606**

**WST\_WHP\_N002**

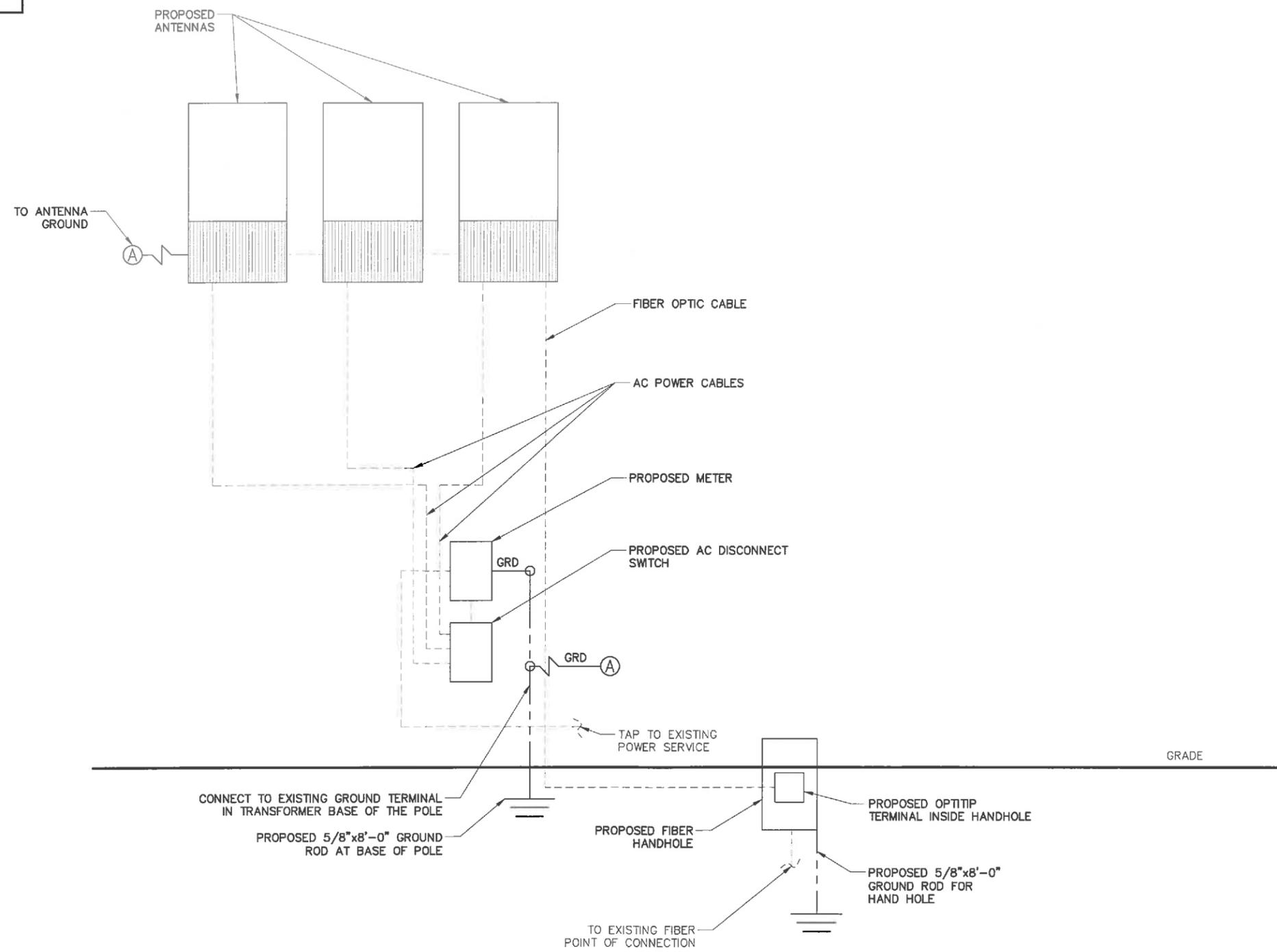
DESIGN TYPE:  
**LIGHT POLE**

SHEET TITLE:  
**GENERAL NOTES**

SHEET NUMBER: <b>GN01</b>	REV.: <b>3</b>
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- NOTES:
1. WIRING DIAGRAM IS FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.
  2. POINT OF CONNECTION AND ROUTING FOR POWER, FIBER, AND ANY ADDITIONAL REQUIRED UTILITIES TO BE DETERMINED PENDING UTILITY COORDINATION.
  3. CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION.
  4. ALL RGS TO BE GROUNDED AT BOTH ENDS USING GROUNDING BUSHINGS.
  5. GROUND WIRE TO BE RUN IN 1/2" SCHEDULE 40 PVC.



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1 WIRING DIAGRAM  
SCALE: NTS



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
3	02-01-22	REVISED PER CLIENT COMMENTS	RC	JRB
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N.Y. CERTIFICATE OF AUTHORIZATION: 081784



**Stephen A. Bray**  
PROFESSIONAL ENGINEER  
NY LICENSE: 086064 2/1/22

PROJECT NUMBER:  
**321.5002.Z02**

SITE INFORMATION:  
**5 RATHBUN AVENUE  
WHITE PLAINS, NY 10606**

**WST\_WHP\_N002**

DESIGN TYPE:  
LIGHT POLE

SHEET TITLE:  
WIRING  
DIAGRAM

SHEET NUMBER: **E01**      REV.: **3**

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