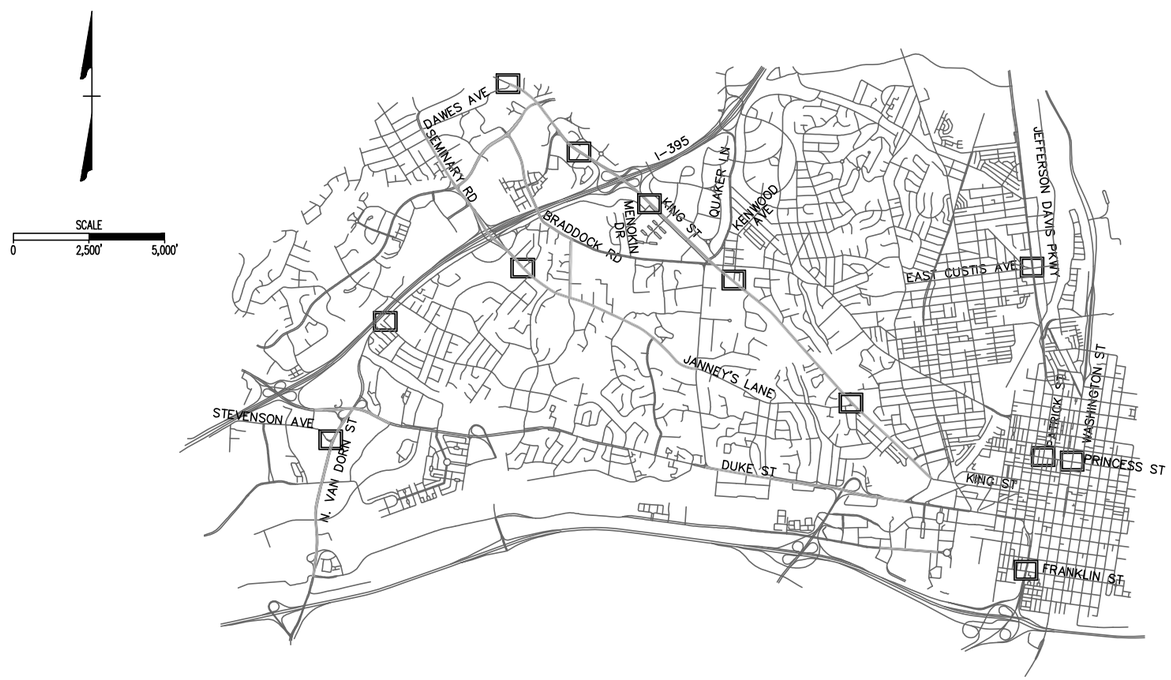
FHWA – 534 34024
UPC – 106563

CITY OF ALEXANDRIA, VIRGINIA

CITY WIDE ITS INTEGRATION PHASE III
CCTV, FIBER & SIGNAL COMMUNICATION INSTALLATION



ALL CONSTRUCTION TO BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY. PROJECT DOES NOT REQUIRE ANY CONSTRUCTION EASEMENTS OR UTILITY RELOCATIONS.

BAR CASE # XXXX-XXXXX
CIP # XXXX-XXXXX

PROJECT DESCRIPTION:

PURPOSE OF THE PROJECT IS TO INSTALL NEW FIBER OPTIC CABLE, CCTV CAMERAS AND PROVIDE COMMUNICATION TO TRAFFIC SIGNALS USING PASSIVE OPTICAL NETWORK (PON) TECHNOLOGY.

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DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.

APPROVED

X DATE:
DIRECTOR

RECOMMENDED FOR APPROVAL

X DATE:
DEPUTY DIRECTOR OF OPERATIONS

RECOMMENDED FOR APPROVAL

X DATE:
DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENTAL QUALITY

RECOMMENDED FOR APPROVAL

X DATE:
DEPUTY DIRECTOR OF RIGHT-OF-WAY & DEVELOPMENT SERVICES

RECOMMENDED FOR APPROVAL

X DATE:
DEPUTY DIRECTOR OF TRANSPORTATION

DEPARTMENT OF INFORMATION TECHNOLOGY SERVICES

APPROVED

X DATE:
DIRECTOR

DEPARTMENT OF PROJECT IMPLEMENTATION

APPROVED

X DATE:
DIRECTOR

RECOMMENDED FOR APPROVAL

X DATE:
DIVISION CHIEF

90% DESIGN SUBMITTAL

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXXX
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AG DATE: 7/24/20
DRAWN BY: PY DATE: 7/24/20
CHECKED BY: RR DATE: 7/24/20
APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

COVER SHEET

SHEET
1
SCALE N.T.S

wsp
13530 DULLES TECHNOLOGY DRIVE, SUITE 300
HERNDON, VIRGINIA 20171
PHONE: 703–742–5700
www.wsp.com

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXX
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AG DATE: 7/24/20
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APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

INDEX OF SHEETS

SHEET
1A
N.T.S

MAINTENANCE OF TRAFFIC (TRANSPORTATION MANAGEMENT PLAN)

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER. CONTRACTOR WILL CONTACT CITY/MARK SKINGER AT 703–746–4148 BEFORE SETTING WORK ZONE.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLANS, OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) ONLY CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

WEEKDAY				
ARTERIAL	Single-Lane Closures* or Shoulder		Multiple-Lane Closures	
	Monday to Thursday	Friday	Monday to Thursday	Friday
Major Arterials **	9:30AM to 3:00PM	9:30AM to 2:00PM	10:00PM to 5:00AM	Not allowed until 10:00PM
	10:00PM to 5:00AM			
All Other Roadways	9:00AM to 3:30PM	9:00AM to 2:00PM	9:00PM to 5:00AM	Not allowed until 10:00PM
	9:00PM to 5:00AM			
*Single-Lane closures are only permitted for multiple-lane roadways				
**Major Arterials are defined as Primary Roads, high volume Secondary Roads, and all other routes that connect directly to Interstates.				

WEEKEND			
ARTERIAL	Single-Lane Closures* or Shoulder		
	Friday to Saturday	Saturday to Sunday	Sunday to Monday
Major Arterials**	10:00PM to 9:00AM	10:00PM to 8:00AM	10:00PM to 5:00AM
All Other Roadways	10:00PM to 9:00AM	9:00PM to 9:00AM	10:00PM to 5:00AM
ARTERIAL	Multiple-Lane Closures		
	Friday to Saturday	Saturday to Sunday	Sunday to Monday
Major Arterials**	11:00PM to 5:00AM	11:00PM to 6:00AM	11:00PM to 5:00AM
All Other Roadways	10:00PM to 6:00AM	10:00PM to 6:00AM	10:00PM to 5:00AM
*Single-lane closures are only permitted for multiple-lane roadways			
**Major Arterials are defined as Primary Roads, high volume Secondary Roads, and all other routes that connect directly to Interstates.			

B) DO NOT CLOSE OR NARROW TRAVEL LANES FOR ALL ROADS DURING SPECIAL EVENTS AS FOLLOWS:

SPECIAL EVENTS

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR ANY SPECIAL EVENT, SUCH AS THE CHRISTMAS WALK, OCCURRING BETWEEN 3 HOURS BEFORE THE START AND 3 HOURS AFTER THE END OF THE SPECIAL EVENT, AS DIRECTED BY THE ENGINEER.

C) DO NOT CLOSE OR NARROW TRAVEL LANES OR CLOSE SIDEWALKS OR PEDESTRIAN CROSSINGS WITHIN ½ MILE OF A SCHOOL DURING ARRIVAL AND DISMISSAL HOURS ON A SCHOOL DAY. COORDINATE WITH THE AFFECTED SCHOOL CONCERNING OPERATIONAL HOURS AND SCHOOL DAYS. AS A MINIMUM, DO NOT CLOSE OR NARROW A LANE OR CLOSE A SIDEWALK OR PEDESTRIAN CROSSING DURING HOURS POSTED ON SCHOOL SPEED ZONE SIGNS (WHEN PRESENT).

D) WHEN WORK REQUIRES, USE A POLICE OFFICER(S) TO DIRECT TRAFFIC THROUGH THE INTERSECTION WHILE A TRAFFIC SIGNAL IS NOT IN OPERATION. DO NOT TAKE TRAFFIC SIGNAL OUT OF OPERATION FOR MORE THAN 1 HOURS AT A GIVEN INTERSECTION. DO NOT TAKE ANY TRAFFIC SIGNAL OUT OF OPERATION TO BETWEEN THE HOUR OF 4:00 PM AND 9:00 AM THE FOLLOWING MORNING.

LANE AND SHOULDER CLOSURE REQUIREMENTS

E) FOR WORK BEYOND THE SHOULDER, POST SIGNAGE IN ACCORDANCE WITH FIGURE TTC–01 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

F) FOR WORK ON THE SHOULDER, PERFORM IN ACCORDANCE WITH FIGURE TTC–04 AND TTC–05 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

G) FOR WORK IN THE TRAVELWAY, PERFORM IN ACCORDANCE WITH APPLICABLE FIGURES TTC–15 THRU TTC–17 AND TTC–21 THRU TTC 23 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

H) FOR WORK IN THE TRAVELWAY AT AN INTERSECTION, PERFORM LANE CLOSURES IN ACCORDANCE WITH APPLICABLE FIGURES TTC–26 THRU TTC–29 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

I) PERFORM SIDEWALK AND CROSSWALK CLOSURES IN ACCORDANCE WITH FIGURES TTC–35 AND TTC–36 OF THE VIRGINIA WORK AREA PROTECTION MANUAL.

J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROADWAY.

SIGNING

K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE. INSTALL SIGNS IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION AND REMOVE OR COVER SIGNS UPON COMPLETION AND DURING INACTIVE PERIODS.

L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

M) THE WORD "SIGNAL" OR "UTILITY" MAY BE USED IN LIEU OF "ROAD" ON W20–1 (ROAD WORK AHEAD) SIGNS G20–2a (END ROAD WORK) SIGNS. HOWEVER, DO NOT INTERMIX SIGNS.

TRAFFIC CONTROL DEVICES

N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON–CENTER IN RADII AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

O) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PEDESTRIANS

P) MAINTAIN REASONABLE AND SAFE PEDESTRIAN ACCESS TO ALL BUSINESSES, SCHOOLS AND DWELLINGS IN AREAS AFFECTED BY CONSTRUCTION AT ALL TIMES.

Q) WHEN CONSTRUCTION ACTIVITIES WILL BLOCK PEDESTRIAN ACCESS TO PEDESTRIAN SIGNAL PUSHBUTTONS, NOTIFY THE ENGINEER AT LEAST 24 HOURS IN ADVANCE OF SUCH WORK TO HAVE THE TRAFFIC SIGNAL PLACE ON PEDESTRIAN RECALL.

R) REFER TO MUTCD SECTION 6D.01, "PEDESTRIAN CONSIDERATIONS" AND SECTION 6D.02, "ACCESSIBILITY CONSIDERATIONS" FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS FOR MAINTAINING PEDESTRIAN TRAFFIC THROUGH WORK AREA.

MISCELLANEOUS

S) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED AND APPROVED IN ADVANCE BY THE ENGINEER, AND SUBJECT TO THE AFOREMENTIONED TIME RESTRICTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH HAVING THE POLICE DIRECT TRAFFIC.

CONTACT INFORMATION

A) VDOT NOVA TRAFFIC OPERATIONS CENTER (703) 877–3449
B) VDOT NOVA WORK ZONE SAFETY COORDINATOR (703) 259–1985
C) ALEXANDRIA EMERGENCY MANAGEMENT (703) 746–5200
D) ALEXANDRIA PROJECT CONTACT, MARK SKINGER (703) 746–4148

Commonwealth of Virginia
Virginia Department of Transportation
VDOT
VERIFICATION OF COMPLETION OF
ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING
This is to verify that **Anne Toma** has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance and removal of temporary traffic control devices.
Date: 8/17/2017
R. J. Kenny
State Traffic Engineer
Verification No. : 081717034
Expiration Date: 8/31/2021

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REVISIONS

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MAINTENANCE OF TRAFFIC
GENERAL NOTES

SHEET
1B
SCALE N.T.S.

SEQUENCE OF CONSTRUCTION

GENERAL NOTES

STEP 1: PERFORM ALL WORK ASSOCIATED WITH THE INSTALLATION OF THE CCTV SYSTEM AS SHOWN IN THE CONTRACT, CONSTRUCTION PLANS AND/OR PROJECT SPECIAL PROVISIONS IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) 2016 ROAD AND BRIDGE SPECIFICATIONS AND ANY PUBLISHED SPECIAL PROVISIONS COPIED NOTES (SPCN), SPECIAL PROVISION (SP) AND SUPPLEMENTAL SPECIFICATIONS (SS) OF THIS DOCUMENT. CONFORM TO THE 2016 VDOT ROAD AND BRIDGE STANDARDS AND THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL.

STEP 2: DETERMINE TYPE OF WORK TO BE DONE AND IDENTIFY THE APPROPRIATE TYPICAL TRAFFIC CONTROL DETAIL.
IF WORKING BEYOND THE SHOULDER, USE TTC–01.
IF WORKING ON THE SHOULDER, USE TTC–04 OR TTC–05.
IF WORKING IN THE ROAD, USE TTC–15 THRU TTC–17 AND TTC–21 THRU TTC–23.
IF WORKING IN THE ROAD AT OR NEAR AN INTERSECTION, USE TTC–26 THRU TTC–29.
IF WORK REQUIRES A SIDEWALK OR CROSSWALK CLOSURE, USE TTC–35 AND TTC–36.

STEP 3: IF REQUIRED, MODIFY THE APPROPRIATE TYPICAL TRAFFIC CONTROL DETAIL TO ACCOUNT FOR SPECIFIC CONSTRUCTION LOCATION OR SITUATION.

STEP 4: IF SIDEWALK OR CROSSWALK CLOSURES ARE REQUIRED, THE CONTRACTOR SHALL PROVIDE A MOT (MAINTENANCE OF TRAFFIC PLAN) THAT PROVIDES TEMPORARY PEDESTRIAN FACILITIES/DETOURS/DIVERSIONS THAT ARE ADA (AMERICANS WITH DISABILITIES ACT) COMPLIANT.

STEP 5: SUBMIT REQUEST FOR CONSTRUCTION PERMIT FOR EACH CONSTRUCTION INSTANCE TO CITY FOR APPROVAL. THE CONSTRUCTION PERMIT SHALL INCLUDE A MOT PLAN FOR EACH CONSTRUCTION INSTANCE.

STEP 6: SET UP SIGNS, BARRELS, CONES, VEHICLES, ETC AS PER MOT PLAN ONCE CONSTRUCTION PERMIT RECEIVED FROM THE CITY.

NOTE: INSTALL CHANGEABLE MESSAGE SIGNS IN ADVANCE OF THE WORK ZONE AS DIRECTED BY THE ENGINEER.

STEP 7: UPON COMPLETION OF THE CONSTRUCTION, REMOVE ALL TRAFFIC CONTROL DEVICES.

NOTE: REMOVE ALL TEMPORARY TRAFFIC CONTROL LANE CLOSURE DEVICES AND RETURN TRAFFIC TO ITS EXISTING TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD.

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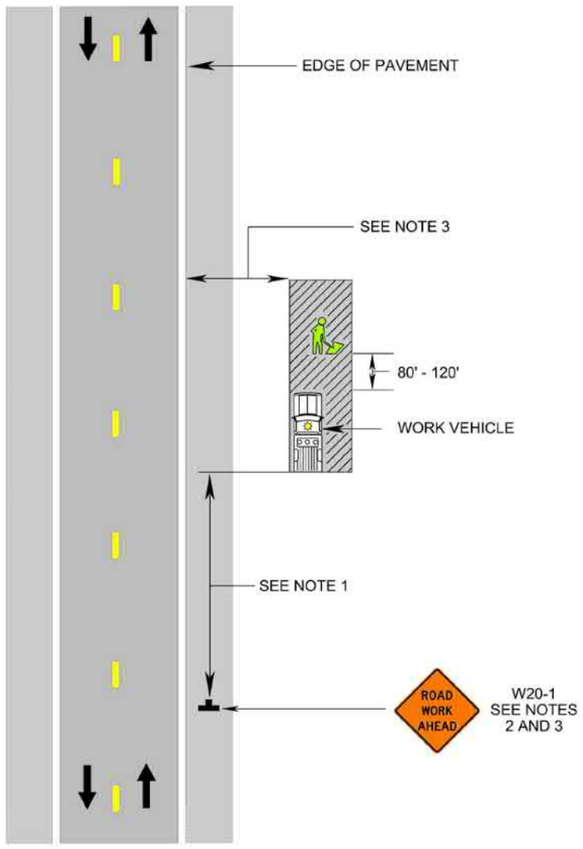
SEQUENCE OF CONSTRUCTION
GENERAL NOTES

SHEET
1C
SCALE N.T.S.

Work Beyond the Shoulder Operation
(Figure TTC-1.1)



NOTES

Guidance:

1. *The minimum distance between the sign and work vehicle should be 1300'-1500' on Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limited is 45 mph or less.*

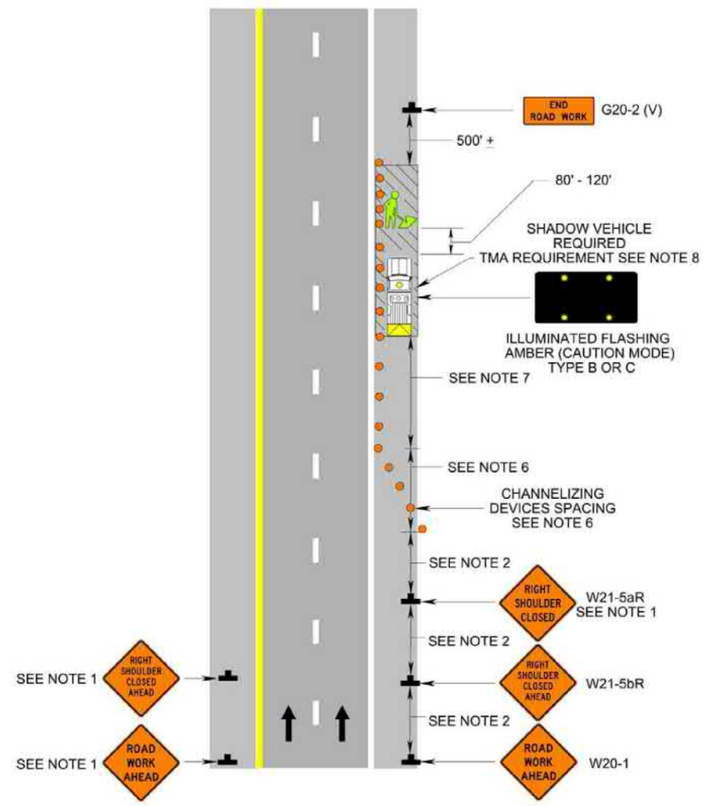
Option:

2. The ROAD WORK AHEAD (W20-1) sign may be replaced with other appropriate signs such as the SHOULDER WORK (W21-5) sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 4 feet behind vertical curb (Standard CG-2 and CG-6) on urban roadways, or outside of the clear zone for all other roadways. For clear zone values see Page A-4 of Appendix A.
4. For short-term, short duration or mobile operations[1], all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or[1] oscillating lights is used.

Standard:

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[1] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating lights.**
6. **If the work space is in the median of a divided highway, an advance warning sign shall also be placed on the left side of the directional roadway.**

Stationary Operation on a Shoulder
(Figure TTC-4.1)



Stationary Operation on a Shoulder
(Figure TTC-4.1)

NOTES

Standard

1. **For long-term stationary work (more than 3 days) on divided highways having a median wider than 8', sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)[1]), even though only one shoulder is being closed. For operations less than 3 days in duration, sign assemblies will only be required on the side where the shoulder is being closed and a RIGHT SHOULDER CLOSED (W21-5aR)[1] sign shall be added to that side.**

Guidance

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*

Option:

3. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or[1] oscillating lights is used.

Standard:

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[1] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or[1] oscillating, lights.**
6. **Taper length (L) and channelizing device spacing shall be at the following:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

7. **The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
8. **A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.**
9. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

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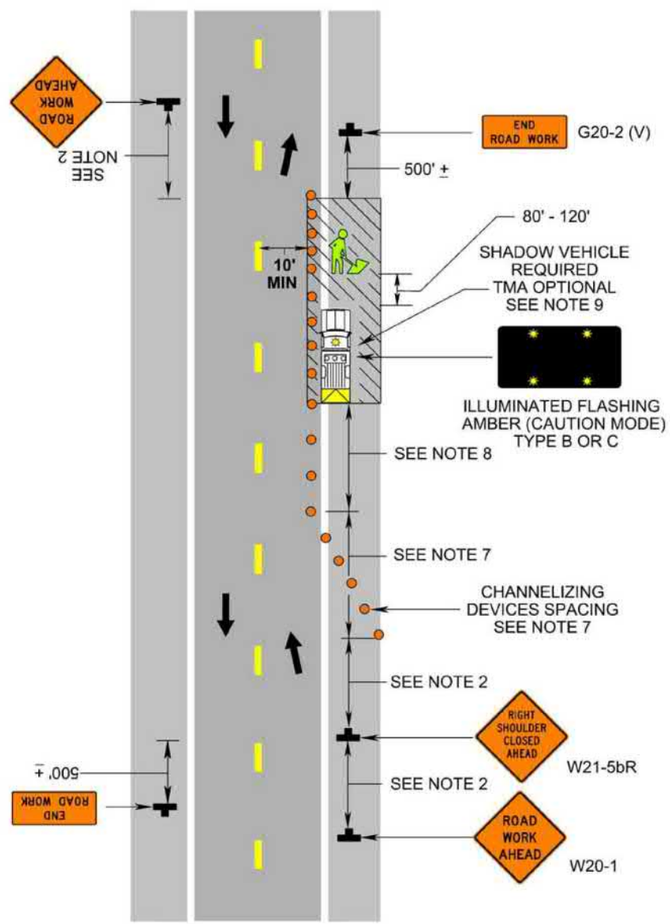
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC–01 AND TTC–04

SHEET
1D
SCALE N.T.S.

Shoulder Operation with Minor Encroachment
(Figure TTC-5.1)



Shoulder Operation with Minor Encroachment
(Figure TTC-5.1)
NOTES

Standard

1. **For required sign assemblies for multi-lane roadways see Note 1, TTC-4.**[1]

Guidance

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
3. *When work takes up part of a lane on a high volume roadway; vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.*

Option:

4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

Standard:

5. **A shadow vehicle with either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing, or[1] oscillating light shall be parked 80' - 120' in advance of the first work crew.**
6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[1] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or[1] oscillating lights.**
7. **Taper length (L) and channelizing device spacing shall be at the following:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

8. **The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
9. **A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.**
10. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

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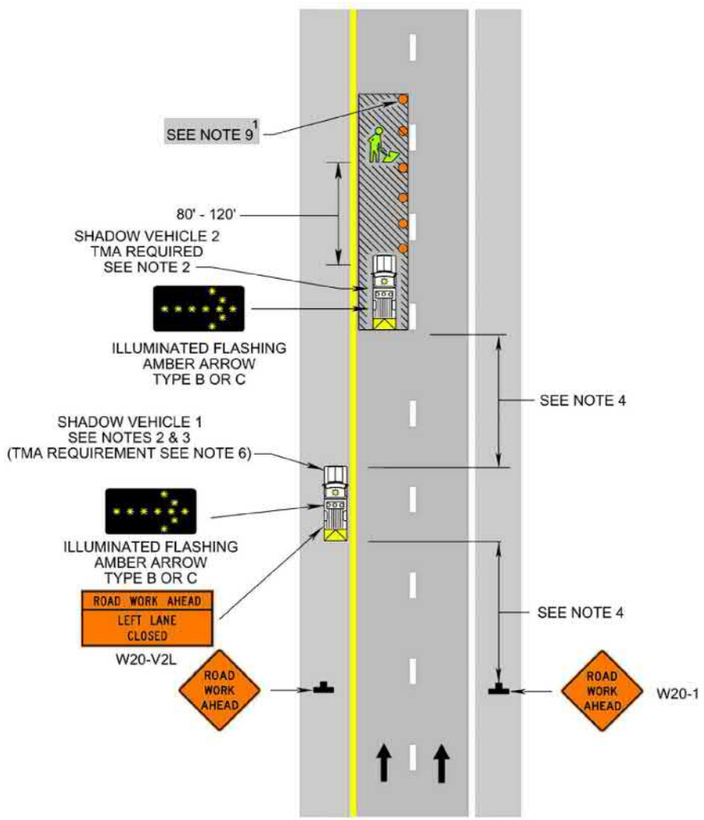
VDOT STANDARD DETAILS
TYPICAL TRAFFIC CONTROL
TTC–05

SHEET
1E
SCALE N.T.S.

Short Duration Operation on a Multi-Lane Roadway
(Figure TTC-15.1)



Short Duration Operation on a Multi-Lane Roadway
(Figure TTC-15.1)
NOTES

Standard:

1. **This typical traffic control layout shall be used only during non-peak travel periods with the approval of the Regional Traffic Engineer. This typical traffic control layout shall not be used for Limited Access highways or two-lane roadways.**
2. **Each vehicle involved in the operation shall have either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing or[1] oscillating light. Vehicle hazard warning signals shall not be used instead of rotating, flashing, or oscillating[1] lights, but as a supplement.**
3. **Vehicle-mounted signs shall be mounted with the bottom of the sign at a minimum height of 48 inches above the pavement.**

Guidance:

4. *The minimum distance between the sign/shadow vehicle and the truck-mounted attenuator (TMA) vehicle should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*

Option:

5. The static warning sign and arrow board may be replaced with a vehicle-mounted CMS with a minimum character height of 10".

Standard:

6. **If Shadow Vehicle 1 occupies any part of the travel lane, it shall be equipped with a TMA. A truck-mounted attenuator (TMA) shall be used on Shadow Vehicle 2 in the travelway regardless of the posted speed limit.**

Guidance:

7. *When using a CMS to replace the arrow board, each word message phase should be followed by the Type B arrow display.*

Support:

8. A short duration operation is defined as an operation that requires 16 minutes to 60 minutes to perform in the immediate area. (The immediate area is defined as a 1000' ± linear distance.)

Option:

9. The work area may be delineate by installing channelizing devices. The channelizing devices would start at the front of the shadow vehicle and extend through the work area. The spacing between channelizing devices may be reduced in the travelway to prevent motorists from entering the work area.[1]

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VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-15

SHEET
1F
SCALE N.T.S.

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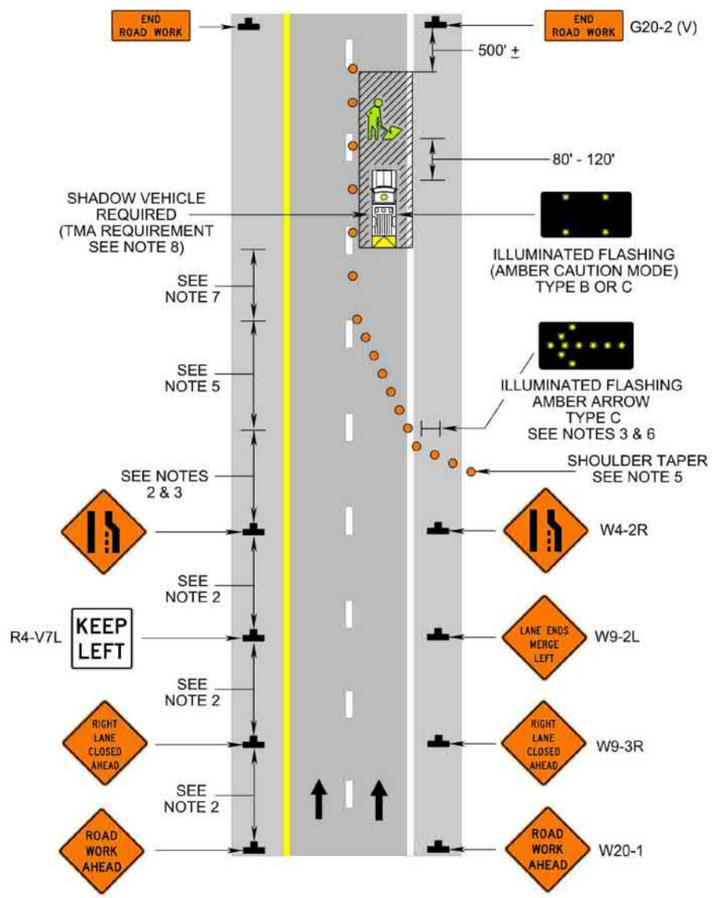
Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.1)



Outside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-16.1)
NOTES

Standard:

1. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**

Guidance:

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
3. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.*
4. *All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.*

Standard:

5. **Taper Length (L) and Channelizing Device Spacing shall be:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

6. **An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18).**
7. **The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
8. **A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or[1] oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.**
9. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[1] oscillating lights but can be used to supplement the amber rotating, flashing, or[1] oscillating lights.**
10. **When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.**

1: Revision 1 – 4/1/2015

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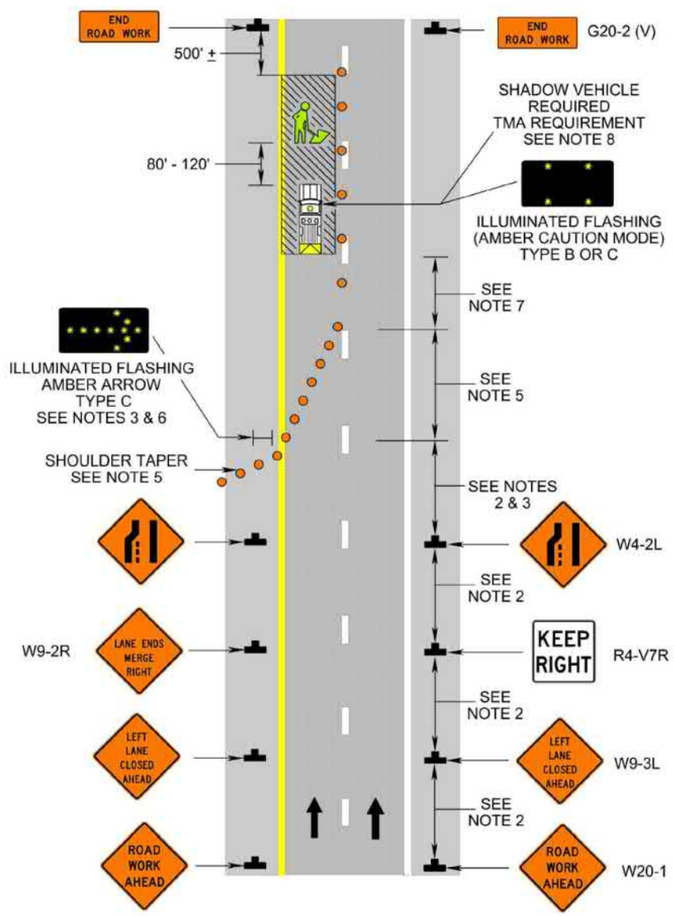
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-16

SHEET
1G
SCALE N.T.S.

Inside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-17.1)



Inside Lane Closure Operation on a Four-Lane Roadway
(Figure TTC-17.1)
NOTES

Standard:

1. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**

Guidance:

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
3. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.*
4. *All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement.*

Standard:

5. **Taper length (L) and channelizing device spacing shall be:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

6. **An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18).**
7. **The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
8. **A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or[1] oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.**
9. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or[1] oscillating lights.**
10. **When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed.**

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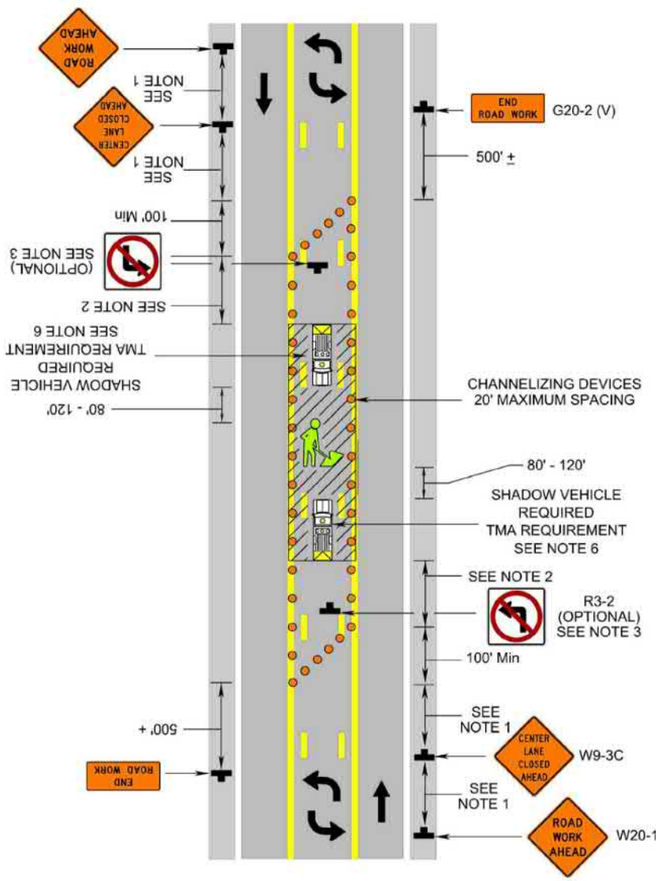
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-17

SHEET
1H
SCALE N.T.S.

Center Turn Lane Closure Operation
(Figure TTC-21.1)



Center Turn Lane Closure Operation
(Figure TTC-21.1)

NOTES

Guidance:

1. *The distance between signs and beginning of channelizing device transition should be a minimum of 500' and a maximum of 800'.*
2. *The buffer space length should be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.*
3. *For locations with a high volume of left turning movements, the graphic NO LEFT TURN (R3-2) signs should be used within the closed lane.*

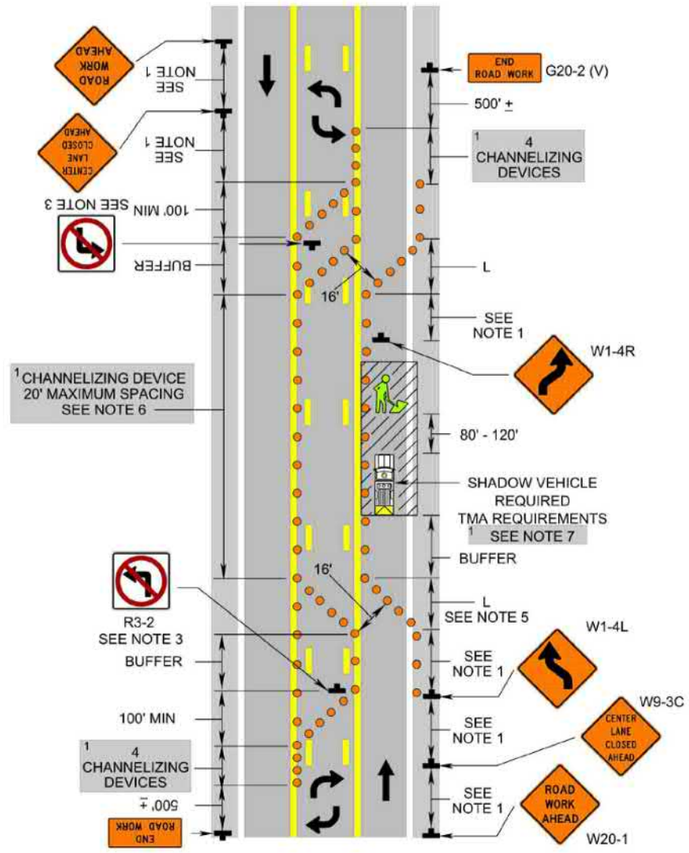
Option:

4. Where Right-of-Way or geometric conditions prevent use of 48" x 48" signs, 36" x 36" signs may be used.

Standard:

5. **To prevent vehicles from entering into the work zone, channelizing device spacing shall be a maximum of 20' on center.**
6. **A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one rotating amber light or high intensity amber flashing or oscillating[1] light shall be parked 80'-120' in advance of the work crew in both directions of travel. If multiple lanes are present (four or more lanes, excluding the center turn lane) and the posted speed limit is 45 mph or greater, the vehicles shall be equipped with a truck-mounted attenuator (TMA).**
7. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

Right Lane Closure Operation on a Three-Lane Roadway
(Figure TTC-22.1)



Right Lane Closure Operation on a Three-Lane Roadway
(Figure TTC-22.1)

NOTES

Guidance:

1. *The distance between signs and beginning of channelizing device transition should be a minimum of 500' and a maximum of 800'.*
2. *The buffer space length should be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.*
3. *For locations with a high volume of left turning movements, the graphic NO LEFT TURN (R3-2) signs should be used within the closed lane.*

Option:

4. Where Right-of-Way or geometric conditions prevent use of 48" x 48" signs, 36" x 36" signs may be used.

Standard:

5. **Taper length (L) and channelizing device spacing shall be :**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11[1]	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

6. **To prevent vehicles from entering into the buffer and activity areas[1], channelizing device spacing shall be a maximum of 20' on center.**
7. **A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one rotating amber light or high intensity amber flashing or oscillating[1] light shall be parked 80'-120' in advance of the work crew in both directions of travel. If multiple lanes are present (four or more lanes, excluding the center turn lane) and the posted speed limit is 45 mph or greater, the vehicles shall be equipped with a truck-mounted attenuator (TMA).**
8. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**
9. **For long-term work zones existing conflicting pavement markings and markers shall be removed and temporary pavement markings and markers shall be installed per Figure TTC-60.**

Guidance:

10. *When channelizing devices have the potential of leading vehicular traffic out of the intended traffic space, the channelizing devices should be extended a distance with 4 additional channelizing devices beyond the downstream end of the transition area as depicted.[1]*

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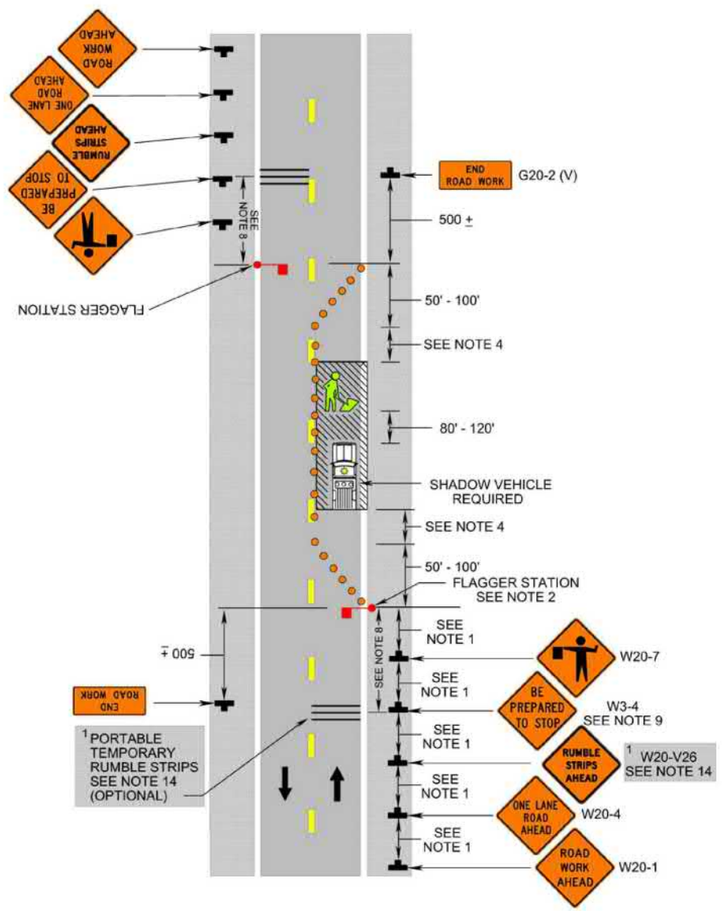
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-21 AND TTC-22

SHEET
11
SCALE N.T.S.

Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.1)



Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.1)
NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.*
2. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.*

Option:

3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be used.

Standard:

4. **Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).**
5. **All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).**
6. **Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.[1]**
7. **A shadow vehicle with at least one high intensity amber rotating, flashing, or[1] oscillating light shall be parked 80'-120' in advance of the first work crew.**

Option:

8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

9. *If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the portable temporary rumble strips (PTRS)[1], should be readjusted at greater distances.*
10. *When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).*

Standard:

11. **At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).**

Option:

12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

Standard:

14. **When approved for use, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.**

Posted Speed	0 – 35 mph	36 – 55 mph
PTRS Spacing (Center to Center)	5 Feet	8 Feet

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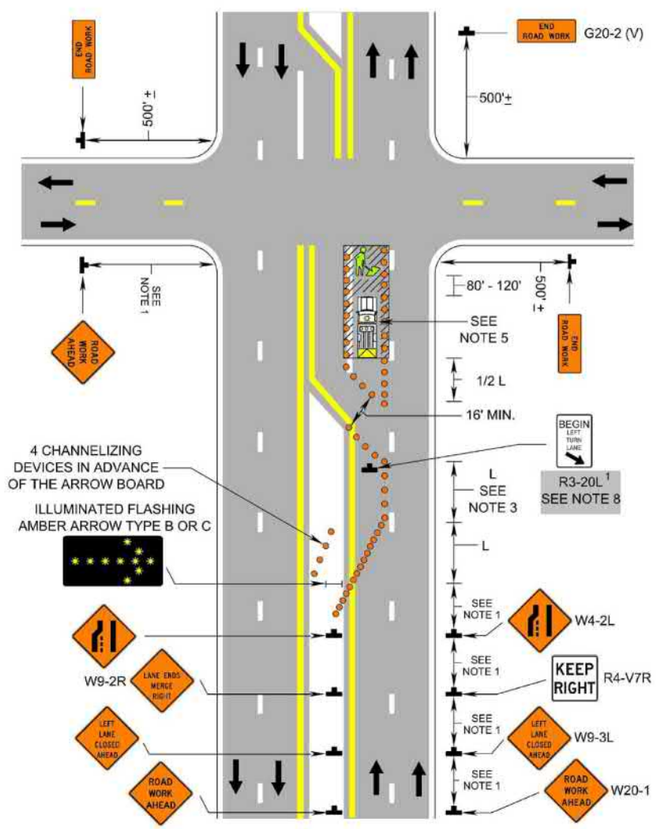
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-23

SHEET
1J
SCALE N.T.S.

Lane Closure Operation - Near Side of an Intersection
(Figure TTC-26.1)



Lane Closure Operation – Near Side of an Intersection
(Figure TTC-26.1)

NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.*

Standard:

2. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**
3. **Taper length (L) and channelizing device spacing shall be:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

On three or more lane roadways, the merging tapers shall be installed as shown in TTC-18.

Guidance:

4. *If room permits, a shadow vehicle with at least one rotating, oscillating, or amber strobe light should be parked 80'-120' in advance of the first work crew.*

Standard:

5. **If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator.**
6. **For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or two high intensity amber flashing or oscillating[1] lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.**

Guidance:

7. *If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.*

Standard:

8. **If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used.[1]**

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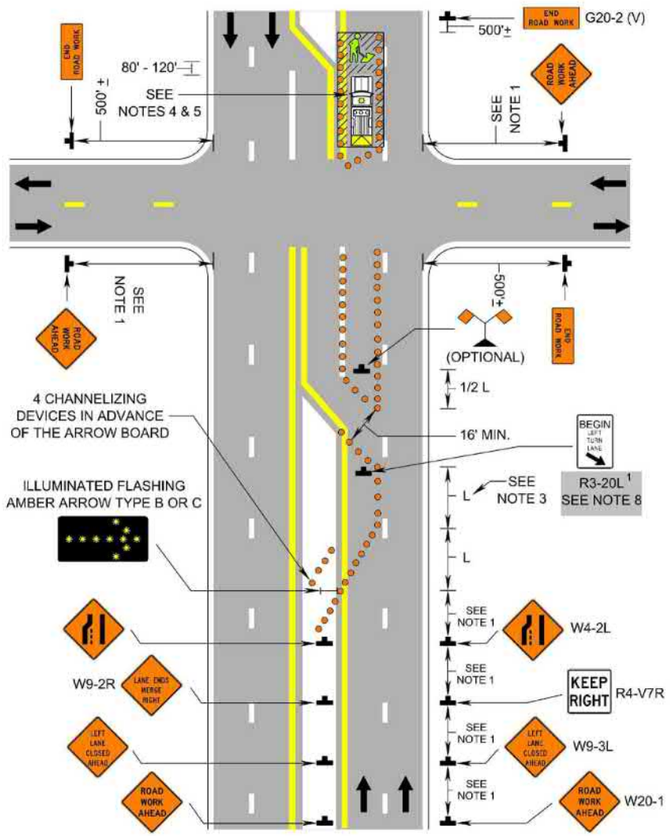
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-26

SHEET
1K
SCALE N.T.S.

Lane Closure Operation - Far Side of an Intersection
(Figure TTC-27.1)



Lane Closure Operation – Far Side of an Intersection
(Figure TTC-27.1)
NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.*

Standard:

2. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**
3. **Taper length (L) and channelizing device spacing shall be:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

Guidance:

4. *If room permits, a shadow vehicle with at least one amber[1] rotating, oscillating, or high intensity flashing[1] light should be parked 80'-120' in advance of the first work crew.*

Standard:

5. **If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator.**
6. **For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating[1] lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.**

Guidance:

7. *If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.*

Standard:

8. **If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used.[1]**

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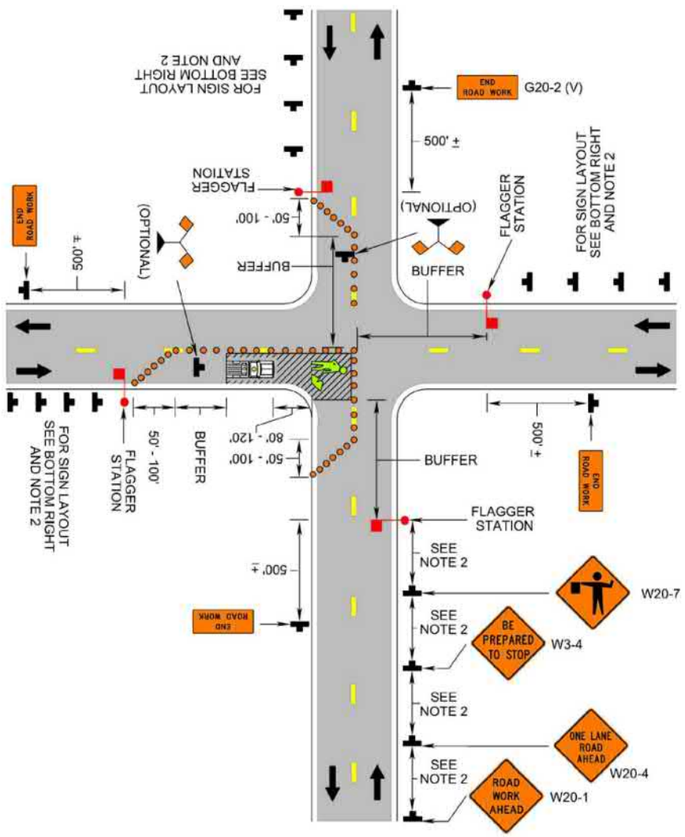
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-27

SHEET
1L

SCALE N.T.S.

Lane Closure Operation in an Intersection
(Figure TTC-28.1)



Lane Closure Operation in an Intersection
(Figure TTC-28.1)
NOTES

Guidance:

1. *The control of traffic through the intersection in order of preference should be:*
   a. *Obtain the services of law enforcement personnel.*
   b. *Detour the effective routes to other roads and streets as approved and directed by the Regional Traffic Engineer.*
   c. *Place a state certified flagger on each leg of the intersection controlling a single lane of traffic.*

   Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34.
2. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.*

Standard:

3. **Channelizing device spacing shall be on 20' centers or less.**

Guidance:

4. *If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscilllating[1] light should be parked 80'-120' in advance of the first work crew.*

Standard:

5. **For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating[1] lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.**

Guidance:

6. *If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.*

Support:

7. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

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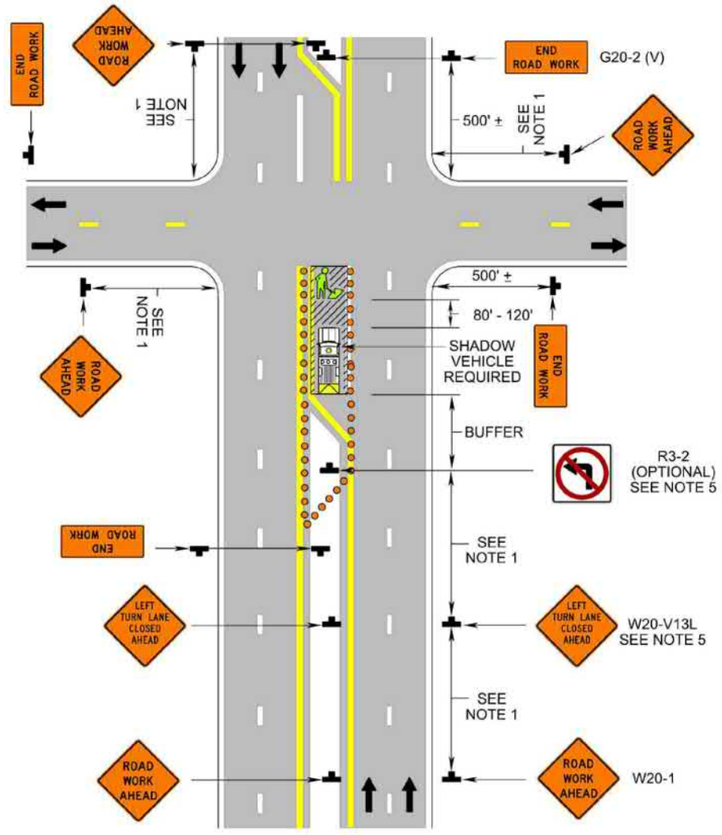
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-28

SHEET
1M
SCALE N.T.S

Turn Lane Closure Operation
(Figure TTC-29.1)



Turn Lane Closure Operation
(Figure TTC-29.1)
NOTES

Guidance:

1. *Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.*

Standard:

2. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**
3. **To prevent accidental intrusion into the work area, channelizing device spacing shall not exceed 20' on centers.**

Option:

4. This layout may be used for either right or left turn lane closures.
5. For a high volume of turning movements, additional traffic control devices, such as signs (graphic NO LEFT TURN (R3-2) or LEFT LANE MUST TURN LEFT (R3-7L)), channelizing devices and vehicles may be used

Standard:

6. **Taper Length (L) shall be:**

Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
≤25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
Shoulder Taper = ⅓ L Minimum				

7. **Buffer Space Length shall be:**

Posted Speed Limit (mph)	Distance (Feet)[1]
≤20	115 – 120
25	155 – 165
30	200 – 210
35	250 – 260
40	305 – 325
45	360 – 380
50	425 – 445
55	500 – 530
60	570 – 600
65	645 – 675
70	730 – 760

Guidance:

8. *If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.*

Support:

9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

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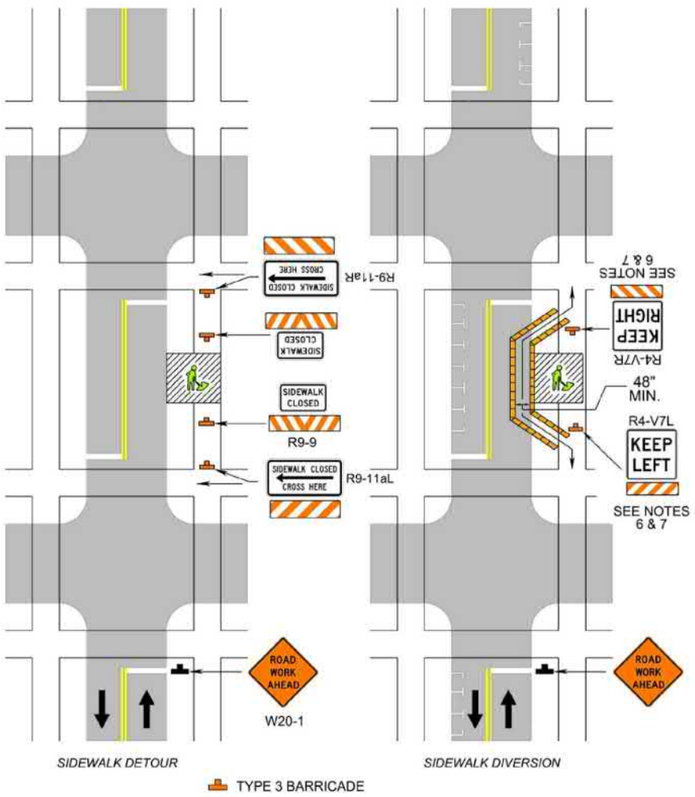
VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-29

SHEET
1N

SCALE N.T.S.

Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.0)



Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.0)
NOTES

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

Guidance:

2. *Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Temporary markings should be considered for operations exceeding three days in duration.*

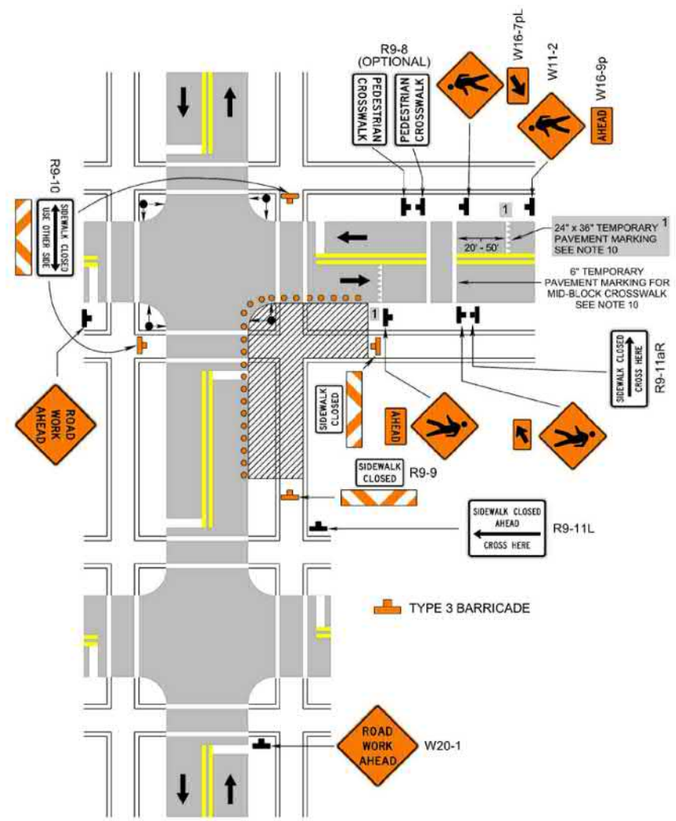
Option:

5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

Standard:

8. **All sidewalk closures shall be closed with Type 3 Barricades.**

Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.1)



Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.1)
NOTES

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**
2. **Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.**

Guidance:

3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.*
5. *Temporary markings should be considered for operations exceeding three days in duration.*

Option:

6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
8. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs may be used in TTC zones.

Standard:

9. **All sidewalk closures shall be closed with Type 3 Barricades.**

Support:

10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD[1] for crosswalk[1] lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.

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DEPARTMENT OF PROJECT IMPLEMENTATION
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ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
TTC-35 AND TTC-36

SHEET
10
SCALE N.T.S.

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Section 6G.14 Work Within the Traveled Way at an Intersection

Support:

01 Chapter 6D and Sections 6F.82 and 6G.05 contain additional information regarding the steps to follow when pedestrian or bicycle facilities are affected by the worksite.

02 The typical applications for intersections are classified according to the location of the work space with respect to the intersection area (as defined by the extension of the curb or edge lines). The three classifications are near side, far side, and in-the-intersection. Work spaces often extend into more than one portion of the intersection. For example, work in one quadrant often creates a near-side work space on one street and a far-side work space on the cross street. In such instances, an appropriate TTC plan is obtained by combining features shown in two or more of the intersection and pedestrian typical applications.

03 TTC zones in the vicinity of intersections might block movements and interfere with normal road user flows. Such conflicts frequently occur at more complex signalized intersections having such features as traffic signal heads over particular lanes, lanes allocated to specific movements, multiple signal phases, signal detectors for actuated control, and accessible pedestrian signals and detectors.

Guidance:

04 *The effect of the work upon signal operation should be considered, and temporary corrective actions should be taken, if necessary, such as revising signal phasing and/or timing to provide adequate capacity, maintaining or adjusting signal detectors, and relocating signal heads to provide adequate visibility as described in Part 4 of the 2009 MUTCD.*

05 *The design and construction of any new signal or modification to an existing signal should include keeping the existing signal in operation while the construction or modification work is being preformed.*

Standard:

06 **When work will occur near an intersection where operational, capacity, or pedestrian accessibility problems are anticipated, the appropriate VDOT Regional Operations Manager or the agency having jurisdiction shall be contacted.**

Guidance:

07 *For work at an intersection, advance warning signs, devices, and markings should be used on all cross streets, as appropriate. The typical applications depict urban intersections on arterial streets.*

08 *Pedestrian crossings near TTC sites should be separated from the worksite by appropriate barriers that maintain the accessibility and detectability for pedestrians with disabilities.*

Support:

09 Near-side work spaces, as depicted in Figure TTC-26, are simply handled as a midblock lane closure. A problem that might occur with near-side lane closure is a reduction in capacity, which during certain hours of operation could result in congestion and backups.

Option:

10 When near-side work spaces are used, an exclusive turn lane may be used for through vehicular traffic.

11 Where space is restricted in advance of near-side work spaces, as with short block spacings, two warning signs may be used in the advance warning area, and a third action-type warning or a regulatory sign (such as Keep Left) may be placed within the transition area.

Support:

12 Far-side work spaces, as depicted in Figure TTC-27, involve additional treatment because road users typically enter the activity area by straight-through and left- or right-turning movements.

Guidance:

13 *When a lane through an intersection must be closed on the far side, it should also be closed on the near-side approach to preclude merging movements within the intersection. In addition, if multiple turn lanes feed into the far side closure, one lane of the dual turn lane should be closed.*

Option:

14 If there are a significant number of vehicles turning from a near-side lane that is closed on the far side, the near-side lane may be converted to an exclusive turn lane.

Support:

15 Figure TTC-28 provides guidance on applicable procedures for work performed within the intersection.

Option:

16 If the work is within the intersection, any of the following strategies may be used:

A. A small work space so that road users can move around it, as shown in Figure TTC-28;
B. Uniformed law enforcement officers to direct road users;
C. Certified flaggers to direct road users, as shown in Figure TTC-30;
D. Work in stages so the work space is kept to a minimum; and
E. Road closures or upstream diversions to reduce road user volumes.

Guidance:

17 *Depending on road user conditions, a uniformed law enforcement officer(s) and/or a certified flagger(s) should be used to control road users.*

Standard:

18 **Certified flaggers shall not direct vehicles through a red signal or stop vehicles at a green signal at an intersection since they are not authorized to do so (see Section 46.2-834 of Highway Laws of Virginia).**

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
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VDOT STANDARD DETAIL
TYPICAL TRAFFIC CONTROL
WORK WITHIN THE
TRAVELED WAY AT AN INTERSECTION

SHEET
1P
SCALE N.T.S.

GENERAL NOTES

1. THESE PLANS WERE PREPARED FROM INVENTORIES AND FIELD DATA COLLECTED FROM FEBRUARY THROUGH SEPTEMBER 2013, AND OCTOBER 27–30, 2014. ACTUAL CONDITIONS IN THE FIELD AT THE TIME OF CONSTRUCTION MAY BE DIFFERENT FROM THOSE SHOWN IN THE PLANS.

2. THE FIELD LOCATION OF ANY ITEM TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

3. BURIED UTILITIES AND STRUCTURES: PIPELINES, STORM SEWERS, POWER CABLES, UTILITY CABLES, BASEMENTS, AND OTHER PUBLICLY AND PRIVATELY OWNED UNDERGROUND OBSTRUCTIONS EXIST ADJACENT TO AND WITHIN THE STREET RIGHT–OF–WAY WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. INVESTIGATE THE LOCATION OF SUCH BURIED UTILITIES AND STRUCTURES WITH PUBLIC AND PRIVATE UTILITIES.

4. THE PLAN SHEETS HAVE BEEN DEVELOPED AS CLOSE TO SCALE AS PRACTICAL. HOWEVER, ACTUAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR APPLYING THE WORK SHOWN.

5. VDOT STANDARD DRAWINGS AND THE DETAILS PROVIDED IN THIS PLAN SET SHALL APPLY TO ALL WORK REQUIRED IN THIS PROJECT, WHETHER A PARTICULAR DETAIL IS SPECIFICALLY REFERENCED TO A WORK ITEM OR NOT. IN THE EVENT OF A CONFLICT, THE ORDER OF PRECEDENCE SHALL BE: THE PROJECT SPECIAL PROVISIONS, THE PLAN SET – INCLUDING DETAILS – SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISION COPIED NOTES, THE ROAD AND BRIDGE SPECIFICATIONS, AND THEN THE ROAD AND BRIDGE STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING THE PROPER DETAILS.

6. ANY OF THE CONTRACTOR'S WORK ACTIVITIES WHICH IMPACT ANY UTILITY FACILITY SHALL BE COORDINATED WITH THE OWNER OF THE AFFECTED UTILITIES. THE CONTRACTOR SHALL FOLLOW ANY AND ALL WORK PROCEDURES THE UTILITY OWNERS MAY REQUIRE.

7. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED TO BE PERFORMED BY OTHERS.

8. AREAS WITHIN THIS PROJECT HAVE BEEN DETERMINED TO CONTAIN PROPERTIES WITH DOCUMENTED HISTORICAL SIGNIFICANCE. IF IT IS NECESSARY TO DEVIATE FROM THE PLANS IN AN AREA IDENTIFIED TO CONTAIN PROPERTIES WITH HISTORIC SIGNIFICANCE, ALERT THE ENGINEER TO CONTACT THE CITY OF ALEXANDRIA FOR AN EFFECTS DETERMINATION BEFORE PROCEEDING.

9. WHERE THE TERMS "DEPARTMENT", "ENGINEER", AND "CONTRACT ENGINEER" APPEAR IN THE VDOT SPECIFICATIONS, SPECIAL PROVISIONS AND SPECIAL PROVISION COPIED NOTES USED IN THIS CONTRACT, THE "CITY OF ALEXANDRIA, DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES", "CITY ENGINEER" AND "CONTRACT ENGINEER" SHALL BE AUTHORIZED REPRESENTATIVES.

10. COLD PATCH SHALL BE USED FOR TEMPORARY PAVEMENT. CONTRACTOR SHALL MAINTAIN TEMPORARY PAVEMENT UNTIL PERMANENT RESTORATION IS ACHIEVED.

11. ALL RESTORATION SHALL BE MADE WITH IN KIND MATERIALS.

12. THE CONTRACTOR SHALL OBTAIN ALL CITY AND STATE PERMITS AS REQUIRED.

13. PRIOR TO ANY BORING OR EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY "MISS UTILITY", TELEPHONE NUMBER 811 (800–552–7001) AND WAIT FOR THE SERVICE TO MARK ANY UNDERGROUND UTILITY LOCATIONS.

14. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR AS SPECIFIED IN SPECIAL PROVISION COPIED NOTE 6–11–09A.

15. THE CONTRACTOR SHALL CONTACT THE CITY OF ALEXANDRIA (MARK SKINGER, 703–746–4148) 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.

16. THE CONTRACTOR SHALL CERTIFY THAT UTILITY WORK THAT IS TO BE PERFORMED WILL BE IN ACCORDANCE WITH FHWA UTILITY RELOCATION REQUIREMENTS AND VDOT UTILITIES MANUALS OF INSTRUCTION.

17. PLANS WERE PREPARED IN CONFORMANCE WITH VDOT POLICIES AND PROCEDURES

18. DIRECTIONAL DRILL UNDER ROADWAY SHALL BE AT A MINIMUM DEPTH 5' BELOW SURFACE ELEVATION FOR HOLE DIAMETER UP TO 14", A MINIMUM DEPTH 10' FOR HOLE DIAMETER BETWEEN15" AND 24" AND A MINIMUM DEPTH 15' FOR HOLE DIAMETER BETWEEN 25"–48". SOIL BORINGS SHALL BE PERFORMED PER VDOT MANUAL OF INSTRUCTION (MOI) GUIDELINES FOR HORIZONTAL DIRECTIONAL DRILLING WITH CROSSING DIAMETER OF 12" OR GREATER.

19. CONTRACTOR SHALL PROVIDE PERPENDICULAR UTILITY ROAD CROSSING WHERE FEASIBLE.

20. CONTRACTOR SHALL ENSURE THAT THE HANDHOLES IN TRAVEL LANES ARE TRAFFIC RATED.

21. CONTRACTOR SHALL ENSURE THAT THE HANDHOLES ARE FLUSH IN SIDEWALKS AND ROADWAYS.

22. CONTRACTOR SHALL ENSURE THAT TEMPORARY SPOILS STORAGE BE ON THE UPHILL SIDE OF ANY TRENCH OR EXCAVATION.

23. CONTRACTOR SHALL AVOID STREETLIGHTS, STREET TREES, CURB INLET AND OTHER CONFLICTS.

24. CONTRACTOR SHALL ENSURE THAT THE CONDUIT IS TRAFFIC RATED.

25. PEDESTRIAN AND BIKE ACCESS SHALL BE MAINTAINED ADJACENT TO THE SITE PER MEMO TO INDUSTRY #04–18.

26. CONTRACTOR SHALL UTILIZE EROSION AND SEDIMENT CONTROL MEASURES (AS REQUIRED BY THE CITY INSPECTOR).

27. TRAFFIC NETWORK ENGINEER (MARK SKINGER (703)–746–4148) IS THE INITIAL POINT OF CONTACT FOR ALL REFERENCES TO THE CITY OF ALEXANDRIA ENGINEER OR ENGINEER IN THE PROJECT PLANS AND/OR THE PROJECT SPECIAL PROVISIONS. ANY DEVIATION FROM THE PROJECT PLANS AND/OR SPECIAL PROVISIONS MUST BE APPROVED BY THE ENGINEER. PROJECT INSPECTORS DO NOT HAVE AUTHORITY TO APPROVE DEVIATIONS WITHOUT THE CONCURRENCE OF THE ENGINEER.

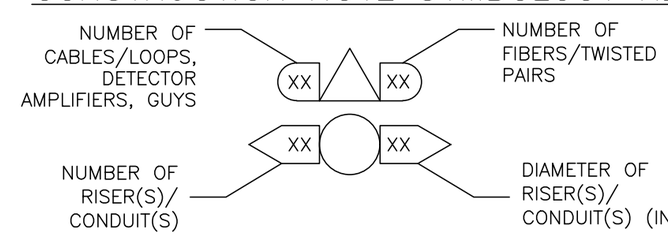
LEGEND

- NEW FIBER OPTIC COMMUNICATIONS CABLE
- EXISTING COMMUNICATIONS CABLE
- EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW AND EXISTING AERIAL GUY ASSEMBLY
- NEW CONDUIT
- EXISTING CONDUIT
- NEW CONTROLLER AND CABINET
- EXISTING CONTROLLER AND CABINET
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- EXISTING COMMUNICATIONS MANHOLE
- CCTV–XX — CCTV CAMERA ID NUMBER
- EOP — EDGE OF PAVEMENT
- EOL — EDGE OF LANE
- BOC — BACK OF CURB
- FOC — FACE OF CURB
- NEW CCTV CAMERA ASSEMBLY
- EXISTING CCTV CAMERA ASSEMBLY

ABBREVIATIONS

ALR	ALEXANDRIA RENEW–SEWER
ALX	CITY OF ALEXANDRIA
BOC	BACK OF CURB
BOSW	BACK OF SIDEWALK
CATV	CABLE
CMC	COMCAST
DI	DROP INLET
DOM	DOMINION VIRGINIA POWER
E	ELECTRICITY
FBL	FIBERLIGHT LLC
FH	FIRE HYDRANT
FO	FIBER–OPTIC CABLE
FOC	FRONT OF CURB
G	GAS
GTW	GAS TEST STATION
JB	JUNCTION BOX
JONES	JONES COMMUNICATIONS
LP	LIGHT POLE
MH	MAN HOLE
NS	NORFOLK SOUTHERN RAILROAD COMPANY
OBV	OPENBAND OF VIRGINIA
PE	POLYETHYLENE
PP	POWER POLE
QGS	QWEST GOVERNMENT SERVICES
QWST	QWEST COMMUNICATIONS
RR	RAILROAD
SAN	SEWER
T/TG	TELEPHONE
TC	CITY OF ALEXANDRIA TRAFFIC
TSP	TRAFFIC SIGNAL POLE
VAW	VIRGINIA AMERICAN WATER CO
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
VZN	VERIZON
W	WATER
WGL	WASHINGTON GAS
WXN	WINDSTREAM KDL

CONSTRUCTION NOTE SYMBOLOGY KEY



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

GENERAL NOTES AND LEGEND

SHEET
2A
N.T.S

	DESCRIPTION	UNITS	APP. QUANTITY
1	MOBILIZATION	LS	
2	MAINTENANACE OF TRAFFIC	LS	
3	TRUCK-MOUNTED ATTENUATOR	HR	
4	TRACER WIRE	LF	
5	TRENCH CONDUIT (PAVEMENT) (1)(1.5")	LF	
6	TRENCH CONDUIT (PAVEMENT) (1)(2”)	LF	
7	TRENCH CONDUIT (GROUND) (2)(2”)	LF	
8	TRENCH CONDUIT (PAVEMENT) (2)(2”)	LF	
9	DIRECTIONAL DRILL CONDUIT (2)(2”)	LF	
10	MICRO TRENCH CONDUIT (2)(18/14 mm)	LF	
11	JUNCTION BOX JB-S3	EA	
12	JUNCTION BOX JB-S2	EA	
13	JUNCTION BOX JB-S2 AS-NEEDED	EA	
14	MODIFIED JUNCTION BOX	EA	
15	REMOVE JUNCTION BOX	EA	
16	SMFO CABLE (96-FIBER)	LF	
17	PRE-TERMINATED DROP CABLE ASSEMBLY FOR CCTV INSTALLATION	EA	
18	FABRIC INNER-DUCT	LF	
19	FLAT DROP CABLE FOR PASSIVE NETWORK	LF	
20	INTERCONNECT CENTER (144-POSITION)	EA	
21	SPLICE ENCLOSURE FOR CCTV ACTIVE NETWORK	EA	
22	SPLICE ENCLOSURE FOR PASSIVE NETWORK	EA	
23	REMOVE SPLICE ENCLOSURE	EA	
24	CABINET FOUNDATION	EA	
25	TERMINATION CABINET	EA	
26	DELINEATOR MARKER	EA	
27	FURNISH ONLY CURB MARKERS	EA	
28	FURNISH ONLY DELINEATOR MARKERS	EA	
29	MODIFY ELECTRICAL SERVICE (SE-3)	EA	
30	HYBRID CAMERA CABLE	LF	
31	CONDUIT ENTRANCE INTO EXISTING FOUNDATION	EA	
32	CCTV CAMERA ASSEMBLY	EA	
33	FURNISH CCTV CAMERA ASSEMBLY	EA	
34	GROUNDING SYSTEM	EA	
35	CCTV SOFTWARE	LS	
36	FURNISH LAPTOP COMPUTER	EA	
37	EDGE SWITCH	EA	
38	FURNISH EDGE SWITCH	EA	
39	ONT SWITCH	EA	
40	OLT SWITCH	EA	
41	KVM SWITCH	EA	
42	ETHERNET EDGE SWITCH	EA	
43	CENTRAL VIDEO EQUIPMENT	LS	
44	CCTV COMMAND AND CONTROL SOFTWARE	EA	
INTEGRATION AND TESTING (BY CONTRACTOR OR INTEGRATOR)			
45	PHASE III SYSTEM INTEGRATION	LS	
46	CONDITION MAP WORKSTATION SYSTEM	LS	
47	CCTV TRAINING	LS	
48	ETHERNET EDGE SWITCH TRAINING	LS	
49	TMC VIDEO WALL AND EQUIPMENT UTILIZATION TRAINING	LS	
50	NETWORK MANAGEMENT SERVER AND LATEST VERSION OF NMS SOFTWARE	EA	
51	PON COMMUNICATION TRAINING	LS	
52	TESTING AND ACCEPTANCE	LS	
NON-CONTRACTOR COSTS			
53	CONSTRUCTION ENGINEERING & INSPECTION	LS	
54	CITY EMPLOYEE OVERTIME	HRS	
55	VDOT INSPECTION	LS	
56	VDOT CONSTRUCTION MONITORING	LS	

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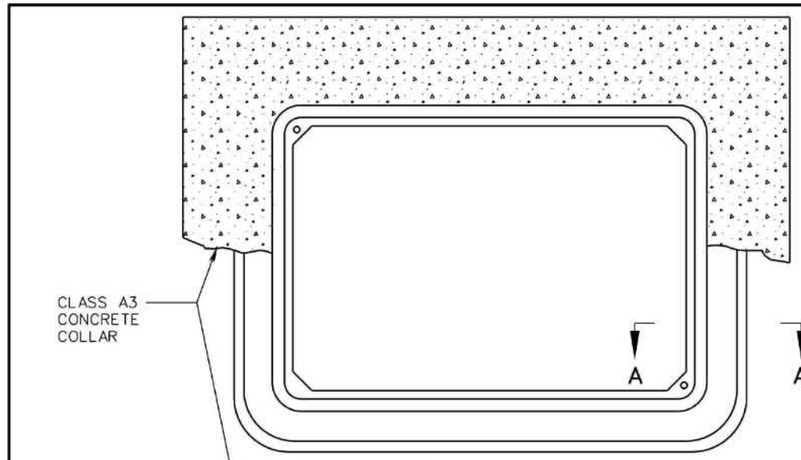
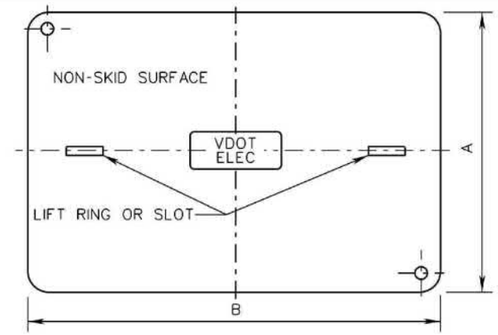
SUMMARY OF QUANTITIES

SHEET
2B
N.T.S

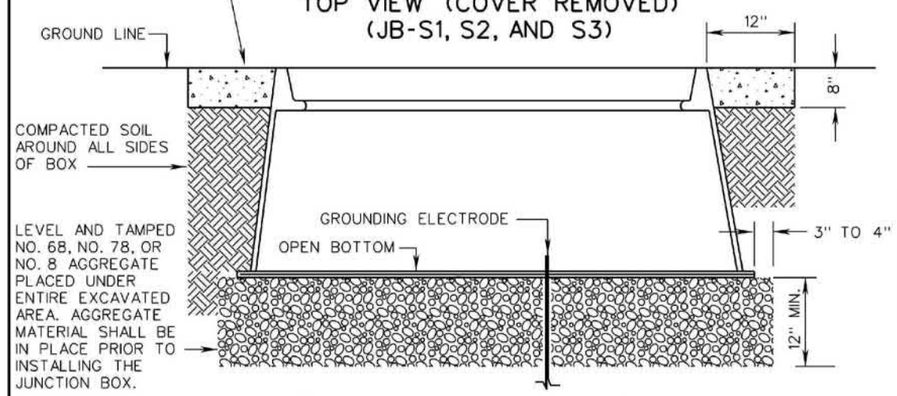
JB-S1, S2, S3, S4



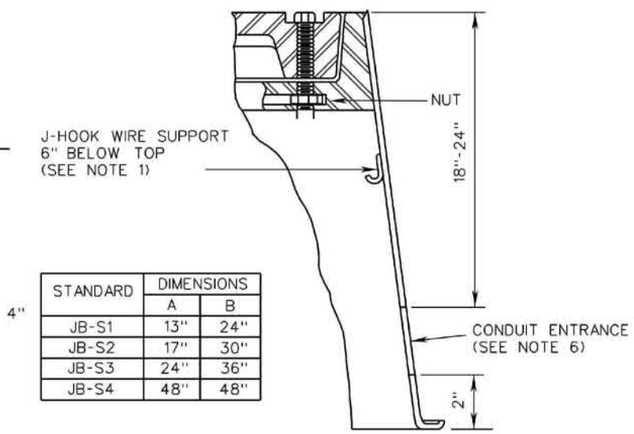
TOP VIEW (COVER REMOVED)
(JB-S1, S2, AND S3)



COVER DETAIL (JB-S1, S2, AND S3)



SECTION VIEW (JB-S1, S2, AND S3)



SECTION A-A (JB-S1, S2, AND S3)

STANDARD	DIMENSIONS	
	A	B
JB-S1	13"	24"
JB-S2	17"	30"
JB-S3	24"	36"
JB-S4	48"	48"

NOTES:

1. JUNCTION BOXES SHALL HAVE A STRAIGHT OR FLARED INSIDE WALL DESIGN. MATERIALS SHALL CONFORM TO SECTION 238 OF THE ROAD & BRIDGE SPECIFICATIONS.
2. CONDUIT ENTRANCES SHALL BE LOCATED AS SHOWN IN THE CONTRACT DOCUMENTS. CONDUITS SHALL EXTEND 2" MIN. TO 3" MAX. INTO THE INSIDE WALL OF THE JUNCTION BOX.
3. EACH COVER SECTION SHALL HAVE A NON-SKID SURFACE WITH LETTERS CAST IN THE DEPRESSION ON TOP OR OTHER PRE-APPROVED METHODS THAT DO NOT REQUIRE THE USE OF ADHESIVES. THE LETTERS "VDOT ELEC", "VDOT TRAF", "VDOT COMM", "VDOT FIBER", OR "UTILITY" AS APPLICABLE ARE TO BE 1" WIDE. COVERS USED FOR JUNCTION BOXES INSTALLED THAT WILL BE MAINTAINED BY LOCALITIES SHALL OMIT THE WORD "VDOT".
4. ALL JUNCTION BOXES SHALL BE INSTALLED WITH A GROUNDING ELECTRODE.
5. TWO RECESSED 3/8" S.S. HEX HEAD BOLTS ARE REQUIRED FOR EACH JB-S1, S2, AND S3 COVER. FOUR RECESSED 3/8" S.S. HEX HEAD BOLTS ARE REQUIRED FOR EACH JB-S4 COVER.
6. A MINIMUM 2" DIAMETER CONDUIT ENTRANCE IS REQUIRED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
7. J-HOOK WIRE SUPPORTS SHALL BE SECURELY ATTACHED TO THE JUNCTION BOX WITH A BOLT AND NUT WITH A NEOPRENE WASHER OR AN EXPANSION FITTING. ONE J-HOOK PER WALL SHALL BE INSTALLED FOR JB-S1, S2, AND S3 BOXES. TWO J-HOOKS PER WALL SHALL BE INSTALLED FOR JB-S4 BOXES.
8. VOIDS RESULTING FROM ENTRANCE OF CONDUITS INTO JUNCTION BOXES SHALL BE COMPLETELY FILLED WITH AN APPROVED MATERIAL.
9. CONDUIT STUB-OUTS, WHEN INSTALLED, SHALL EXTEND A MINIMUM OF 6" PAST THE OUTSIDE OF THE JUNCTION BOX.

SPECIFICATION REFERENCE	A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.	VDOT ROAD AND BRIDGE STANDARDS	
700 238	JUNCTION BOX FOR NON-DELIBERATE TRAFFIC USE VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE 08/17	SHEET 1 OF 2 1317.20

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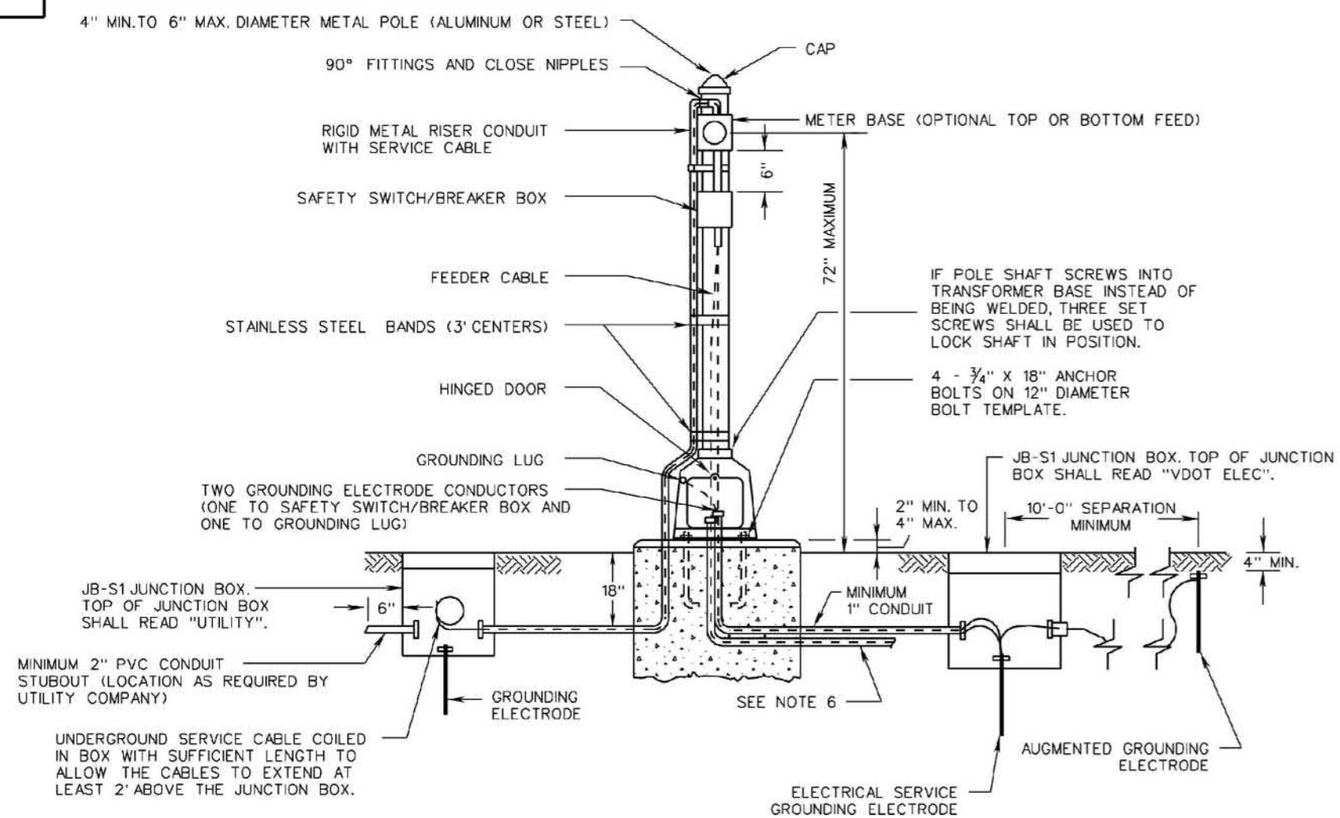
APPROVED BY: XX DATE: 7/24/20

VDOT STANDARD DETAIL
JUNCTION BOX
NON-DELIBRATE TRAFFIC USE
CITY OF ALEXANDRIA

SHEET
2C
N.T.S

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SE-5



NOTES:

1. LOCAL POWER UTILITY COMPANY WILL INSTALL SERVICE CABLE FROM THEIR POWER SOURCE TO THE JUNCTION BOX AND MAKE REQUIRED SPLICES TO THE CABLES PROVIDED.
2. THIS STANDARD IS APPLICABLE FOR ALL ELECTRICAL SERVICES OTHER THAN 480Y/277.
3. FOR ROADWAY LIGHTING SYSTEMS, ONLY SAFETY SWITCH SHALL BE USED.
4. ALL ELECTRICAL CONNECTIONS AND SPLICES SHALL BE TESTED FOR ELECTRICAL CONTINUITY.
5. FOUNDATION SHALL BE CLASS A3 CONCRETE, 24X24 SQUARE OR 24" DIAMETER AND 24" DEEP, AND COST OF FOUNDATION SHALL BE INCLUDED WITH THE PAY ITEM FOR ELECTRICAL SERVICE.
6. CONDUIT AND CONDUCTOR SIZE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
7. RIGID METAL RISER CONDUIT AND SERVICE CABLE SIZE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS SPECIFIED BY THE LOCAL POWER COMPANY.
8. WHEN REQUIRED BY THE CONTRACT DOCUMENTS, AN ELECTRICAL SERVICE WORK PAD SHALL BE PLACED IN FRONT OF THE SAFETY SWITCH/BREAKER BOX. ELECTRICAL SERVICE WORK PAD SHALL BE A SEPARATE PAY ITEM.
9. STAINLESS STEEL BANDS REQUIRED FOR METER BASE AND SAFETY SWITCH/BREAKER BOX.
10. ANCHOR BOLTS AND BOLT TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER, AND POLE SHALL BE CENTERED ON FOUNDATION.

VDOT ROAD AND BRIDGE STANDARDS		A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.	SPECIFICATION REFERENCE
SHEET 1 OF 1	REVISION DATE	ELECTRICAL SERVICE INSTALLATION DETAILS	700
1312.50	02/16	VIRGINIA DEPARTMENT OF TRANSPORTATION	

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

VDOT STANDARD DETAIL
ELECTRICAL SERVICE DETAIL
SIGNAL INSTALLATION
CITY OF ALEXANDRIA

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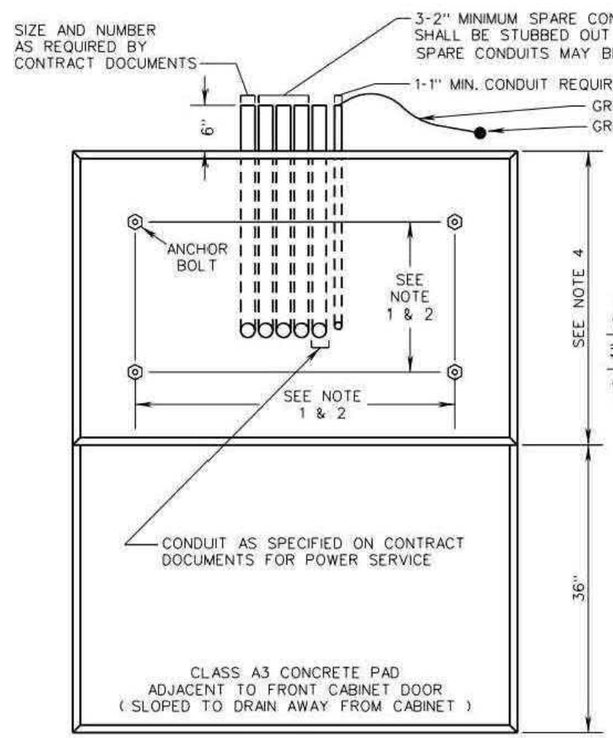
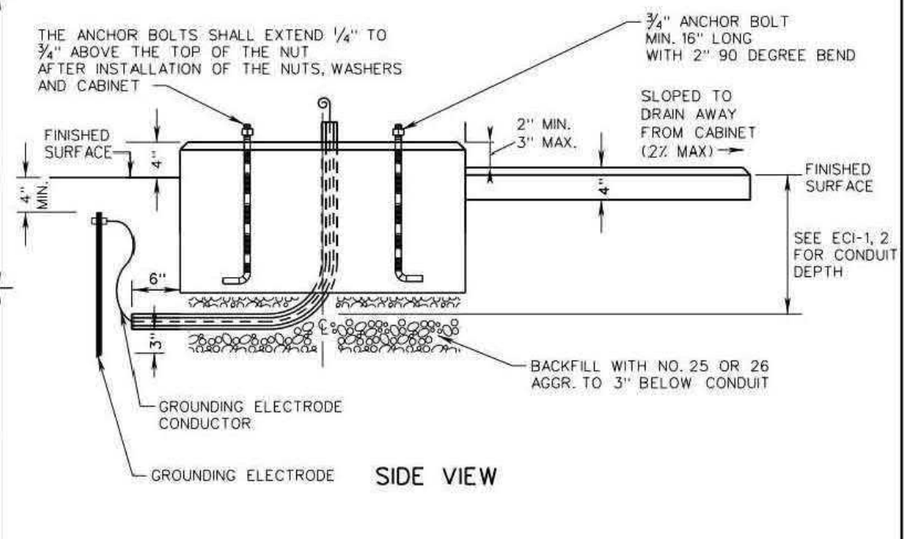
N.T.S

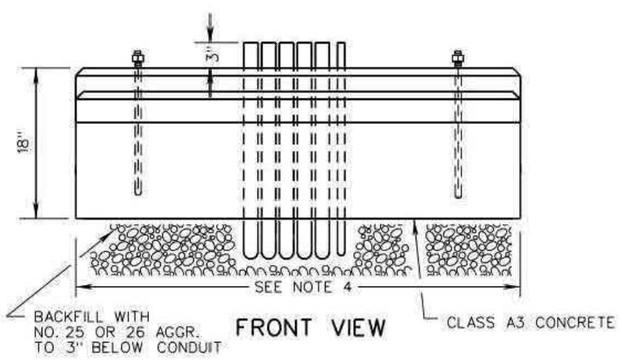
CF-1



TOP VIEW



SIDE VIEW



FRONT VIEW

NOTES:

1. ANCHOR BOLTS AND BOLT TEMPLATE SHALL BE FURNISHED WITH CABINET.
2. CABINET SHALL BE CENTERED ON FOUNDATION.
3. THE CONTROLLER CABINET AT THE INSIDE AND OUTSIDE FOUNDATION JOINTS SHALL BE SEALED WITH AN APPROVED WATERPROOF SILICONE SEALANT.
4. FOUNDATION LENGTH AND WIDTH SHALL PROJECT A MINIMUM 4" BEYOND ALL SIDES OF THE CABINET.
5. EXCAVATED AREAS SHALL BE BACKFILLED WITH AGGREGATE.
6. CF-1 FOUNDATION IS INTENDED FOR USE WITH TYPE "A" (NEMA TS-2) TRAFFIC SIGNAL EQUIPMENT CABINET.

SPECIFICATION REFERENCE	A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.	VDOT ROAD AND BRIDGE STANDARDS	
700 703	CABINET FOUNDATION DETAILS TYPE A TRAFFIC SIGNAL EQUIPMENT VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE 02/16	SHEET 1 OF 1 1301.10

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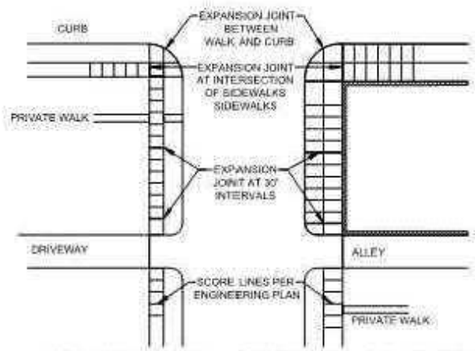
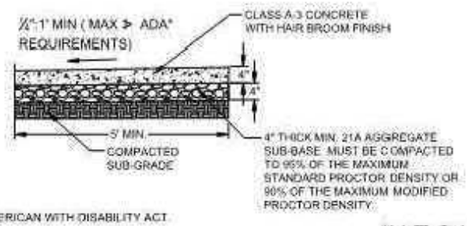
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

VDOT STANDARD DETAIL
CABINET FOUNDATION DETAILS
CITY OF ALEXANDRIA

SHEET
2E
N.T.S



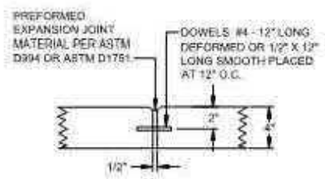
EXPANSION JOINT PLACEMENT



*ADA: AMERICAN WITH DISABILITY ACT.

SIDEWALK SECTION

(N.T.S.)

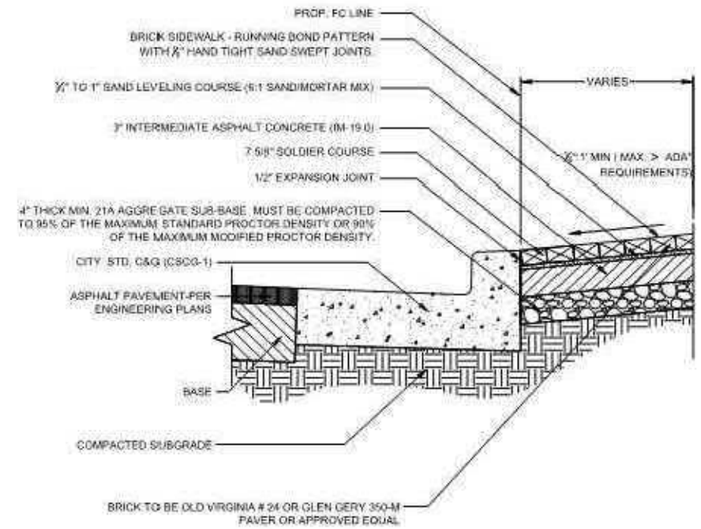


EXPANSION JOINT

NOTES:

1. SCORING OF CONCRETE SLAB SHALL BE SAW CUT NOT MORE THAN 3/16" IN WIDTH AND NOT MORE THAN ¼" DEEP.
2. THE EXPANSION JOINTS SHALL BE ½" WIDE, FULL DEPTH, AND SHALL BE OF PRE-FORMED EXPANSION JOINT MATERIAL CONFORMING TO THE REQUIREMENTS OF ASTM D994 ASPHALT OR ASTM D1751 FIBRE. EXPANSION MATERIAL SHALL BE SECURED IN A MANNER THAT WILL PREVENT MOVEMENT OR DISPLACEMENT OF CONCRETE DURING PLACEMENT.
3. THE EXPANSION JOINTS SHALL BE PLACED PERPENDICULAR TO CONCRETE CURB AT A DISTANCE OF 30' OR COINCIDING WITH THE SCORING.
4. DOWELS SHALL BE PLACED AT THE END OF A SIDEWALK PLACEMENT, AT INTERRUPTIONS FOR A DRIVEWAY, OR IF SIDEWALK SLABS ARE POURED AT DIFFERENT TIMES.
5. SAWING OF JOINTS SHALL BE CONDUCTED AS SOON AS THE CONDITION OF THE CONCRETE PERMITS AND BEFORE ANY RANDOM CRACKING APPEARS.
6. ALL STRUCTURAL ITEMS TO CONFORM TO THE LATEST EDITION OF UNIFORM STATEWIDE BUILDING CODE (USBC) REQUIREMENTS.
7. PRIOR TO CONSTRUCTION, ALL STRUCTURAL CROSS SECTIONS SHALL BE REVIEWED BY A QUALIFIED STRUCTURAL AND/OR GEOTECHNICAL ENGINEER, AND MODIFIED AS NECESSARY BASED ON THE SITE SPECIFIC GEOTECHNICAL REPORT.
8. SIDEWALK MUST BE REPLACED IN FULL SECTION JOINT TO JOINT.

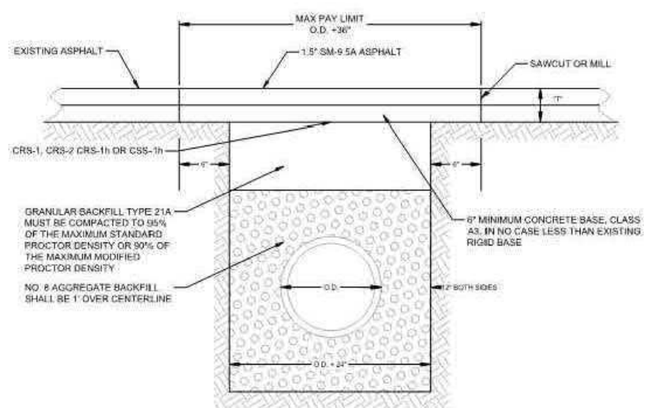
(N.T.S.)



*ADA: AMERICAN WITH DISABILITY ACT.

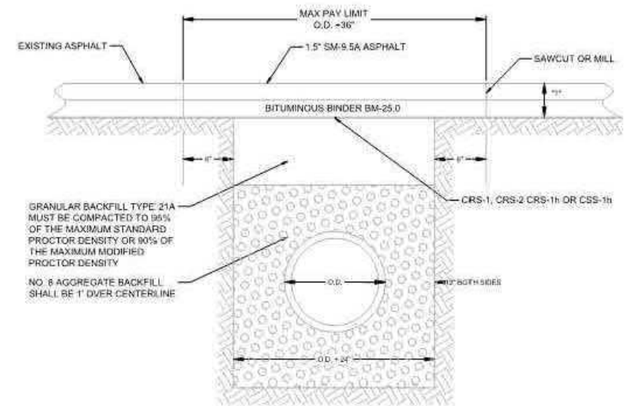
NOTES:

1. THE BRICK SHALL BE OLD VIRGINIA 424 EXTRUDED / WIRE CUT, MODULAR SIZE SHENANDOAH SERIES POPLAR FOREST RED RANGE CONFORMING TO THE REQUIREMENTS OF ASTM C902 CLASS SX, TYPE I OR GLEN GERY 350-M OR APPROVED EQUAL. THE BRICK SUBJECTED TO HEAVY VEHICULAR TRAFFIC SHALL CONFOR TO THE REQUIREMENTS OF ASTM C1272 OR APPROVED EQUAL.
2. THE EXPANSION JOINTS SHALL BE ½" WIDE AND SHALL BE THE FULL THICKNESS OF THE BRICK LAYER, AND SHALL BE OF PRE-FORMED EXPANSION JOINT MATERIAL CONFORMING TO THE REQUIREMENTS OF ASTM D994 ASPHALT OR ASTM D1751 FIBRE. EXPANSION MATERIAL SHALL BE SECURED IN A MANNER THAT WILL PREVENT MOVEMENT OR DISPLACEMENT OF BRICK DURING PLACEMENT.
3. THE EXPANSION JOINTS SHALL BE PLACED PARALLEL TO THE CONCRETE CURB.



NOTES:

1. CONCRETE BASE COURSE TO BE 1.5" BELOW EXISTING PAVEMENT SURFACE, 7.5" OR "T" MINUS 1.5" THICK, WHICHEVER IS GREATER. THICKNESS WILL NOT BE LESS THAN EXISTING ASPHALT PAVEMENT.



NOTES:

1. BM-25.0 ASPHALT BASE COURSE TO BE 1.5" BELOW EXISTING PAVEMENT SURFACE, 8" OR "T" MINUS 1.5" THICK, WHICHEVER IS GREATER. THICKNESS WILL NOT BE LESS THAN EXISTING ASPHALT PAVEMENT.

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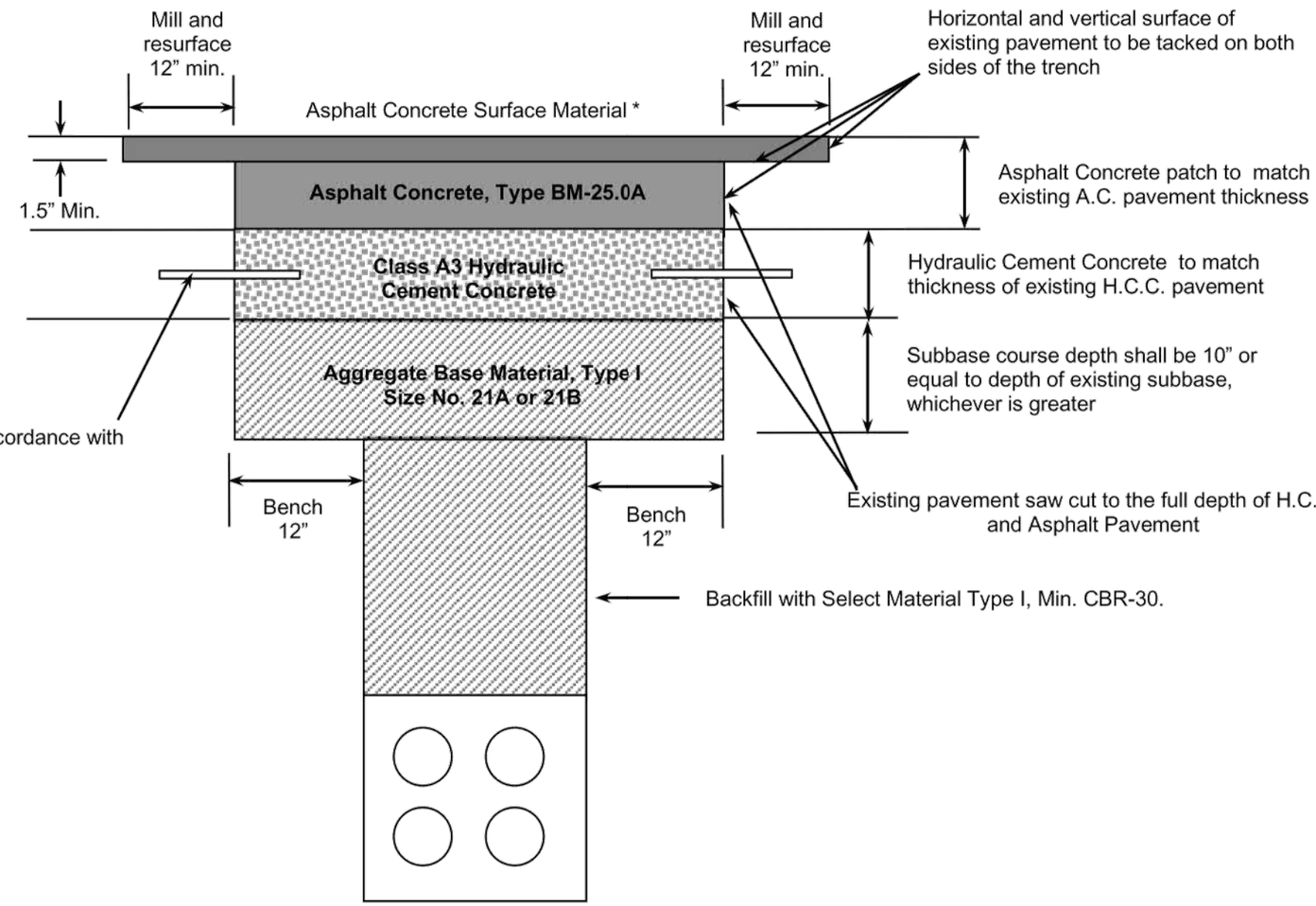
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

ALEXANDRIA STANDARD DETAIL
TRENCHING AND RESTORATION
OF SURFACE DETAIL
CITY OF ALEXANDRIA

SHEET
2F
N.T.S

Detail: Ductbank Trench Restoration for Hydraulic Cement Concrete Pavement with Asphalt Concrete Overlay



* Asphalt concrete surface material shall be:
SM-9.5A if ADT < 10,000
SM-9.5D if ADT > 10,000

Note: Longitudinal and Transverse Joints shall match existing type, size and location

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VDOT STANDARD DETAIL
DUCTBANK TRENCH RESTORATION
CITY OF ALEXANDRIA

SHEET
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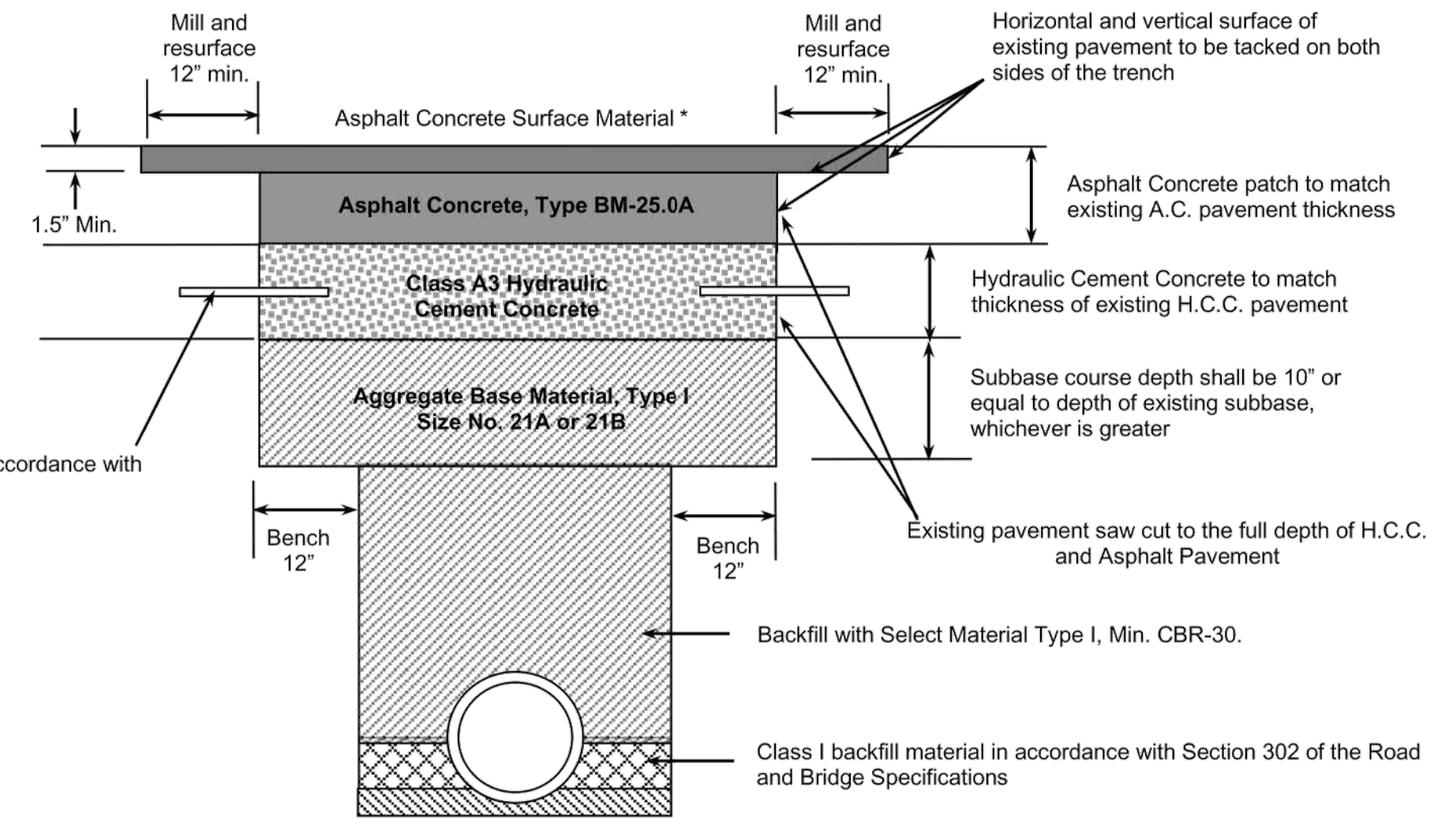
N.T.S

Detail: Pipe Trench Reinstatement for Hydraulic Cement Concrete Pavement with Asphalt Overlay



* Asphalt concrete surface material shall be:
SM-9.5A if ADT < 10,000
SM-9.5D if ADT > 10,000

Transverse dowels at 30" c-c in accordance with Std. PR-2

Note: Longitudinal and Transverse Joints shall match existing type, size and location

Trench width and pipe bedding shall be in accordance with VDOT Std. PB-1

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

VDOT STANDARD DETAIL
PIPE TRENCH REINSTATEMENT
CITY OF ALEXANDRIA

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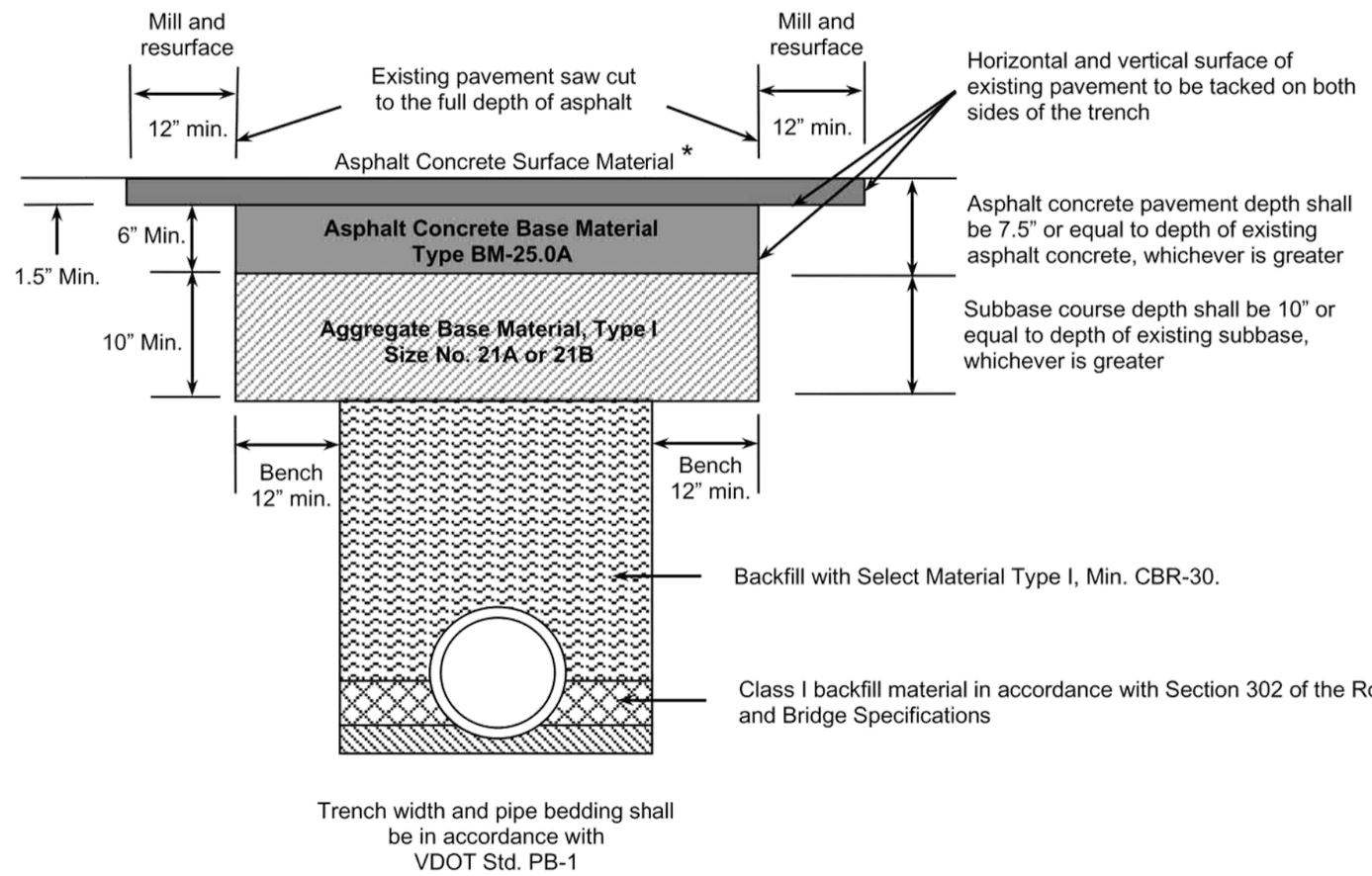
Detail: Asphalt Concrete Pavement Restoration of Generic Open Cut Utility Installation

Note: This detail is not applicable to Interstate pavement or any pavement which includes an open graded drainage layer or has base layers consisting of Cement Treated Aggregate and/or Soil Cement.



* Asphalt concrete surface material shall be:
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SM-9.5D if ADT > 10,000

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VDOT STANDARD DETAIL
ASPHALT CONCRETE PAVEMENT
CITY OF ALEXANDRIA

SHEET
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N.T.S

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

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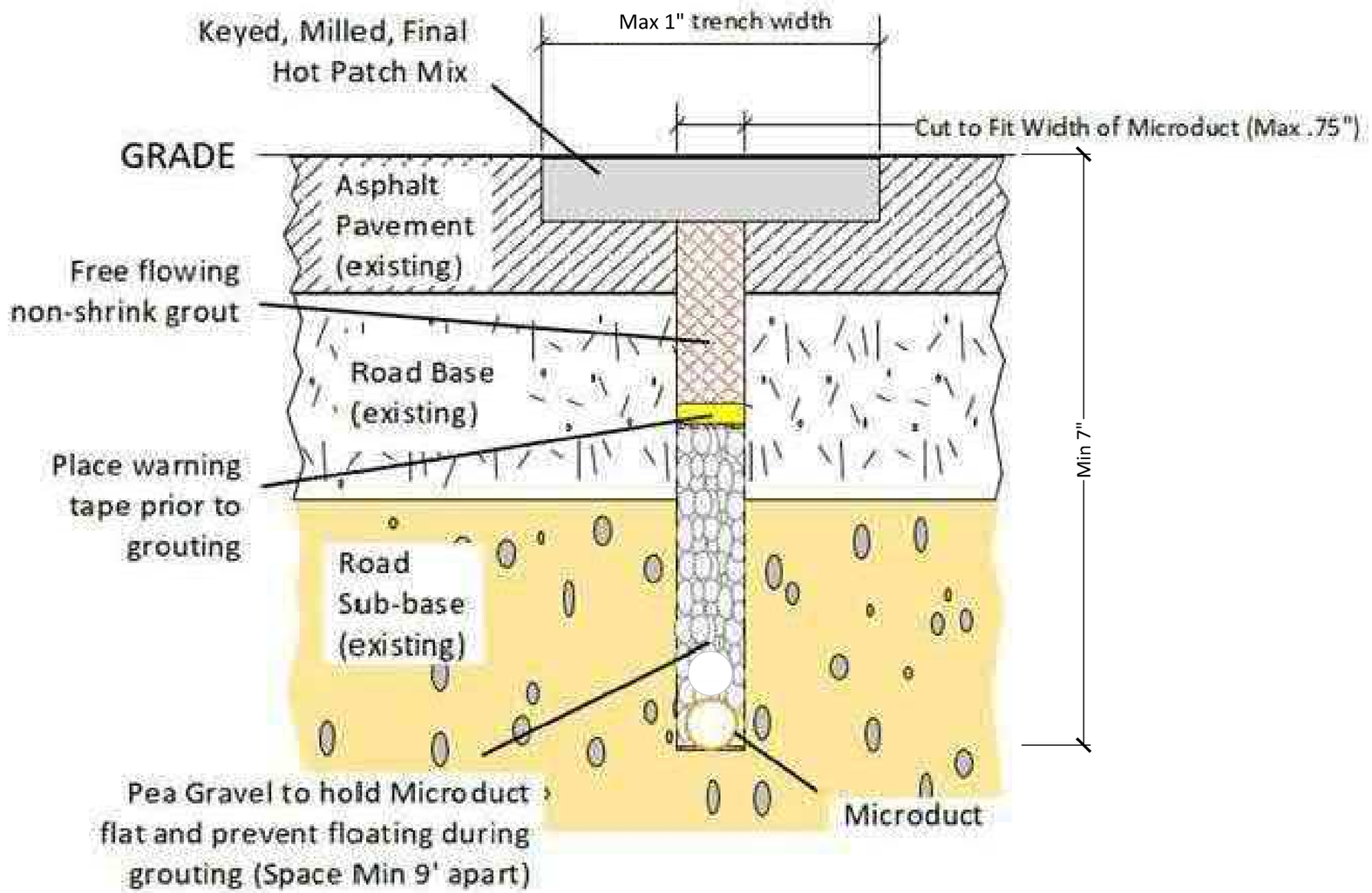
Cross Section View



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STANDARD DETAIL
MICRO TRENCHING

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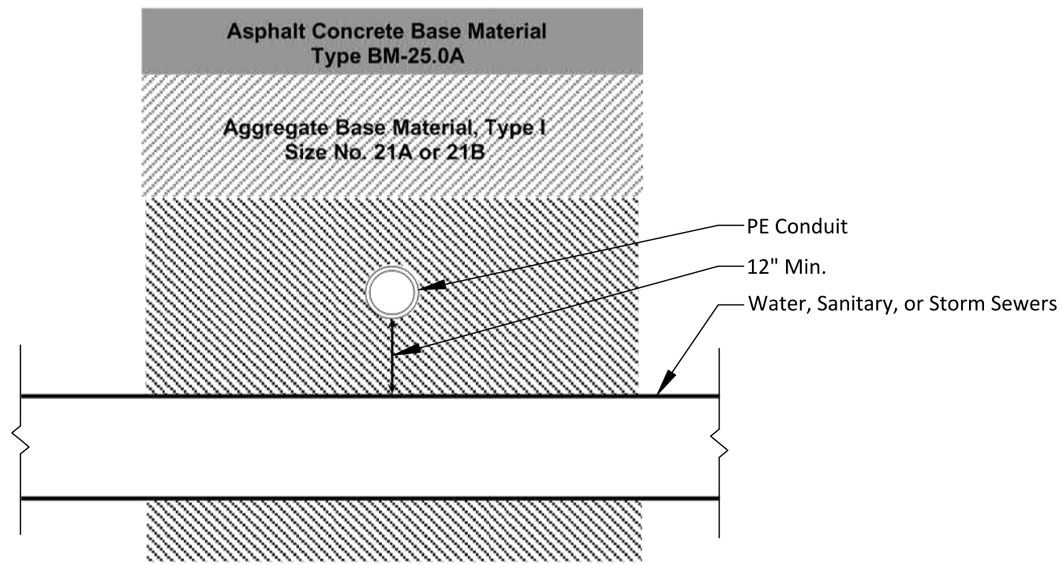

NOTES:

CITY OF ALEXANDRIA, VIRGINIA
MEMORANDUM TO INDUSTRY NO.02-09: DESIGN GUIDELINES FOR SITE PLAN PREPARATION. AMENDED STANDARD DETAILS, REQUIREMENTS, AND CITY STANDARD NOTES. (DECEMBER 3, 2009)

CROSSING EXISTING OR PROPOSED UTILITIES: UNDERGROUND TELEPHONE, CABLE T.V., GAS, AND ELECTRICAL DUCT BANKS SHALL BE CROSSED MAINTAINING A MINIMUM OF 12" OF SEPARATION OR CLEARANCE WITH WATER, SANITARY, OR STORM SEWERS. IF THIS SEPARATION CANNOT BE ACHIEVED THEN THE SEWER PIPE MATERIAL SHALL BE DUCTILE IRON PIPE (DIP) AWWA C-151 (ANSI A21.51) CLASS 52 FOR A DISTANCE OF 10 FEET EACH SIDE OF THE POINT OF CROSSING AND PRESSURE TESTED IN PLACE WITHOUT LEAKAGE PRIOR TO INSTALLATION. SANITARY/STORM SEWER AND WATER MAIN CROSSING OVER THE UTILITIES SHALL HAVE ADEQUATE STRUCTURAL SUPPORT (PIER SUPPORT AND/OR CONCRETE ENCASEMENT) TO PREVENT DAMAGE TO THE UTILITIES.

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STANDARD DETAIL
MINIMUM SEPARATION WHEN CROSSING EXISTING UTILITIES

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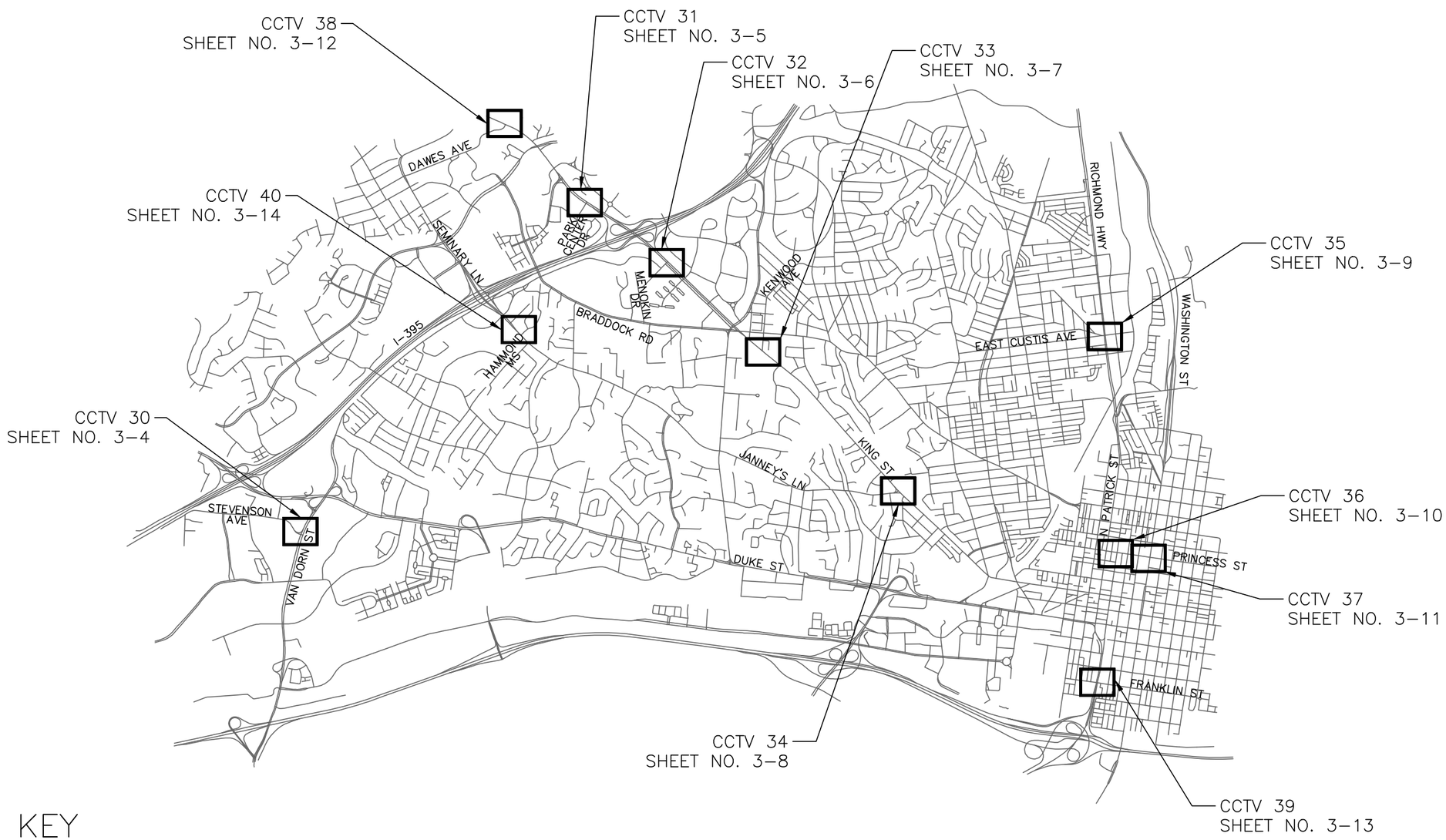

CCTV KEY

SHEET NO. 3-4	CCTV 30 (S. VAN DORN ST & STEVENSON AVE)
SHEET NO. 3-5	CCTV 31 (KING ST & PARK CENTER DR)
SHEET NO. 3-6	CCTV 32 (KING ST & MENOKIN DR)
SHEET NO. 3-7	CCTV 33 (KING ST & KENWOOD AVE)
SHEET NO. 3-8	CCTV 34 (KING ST & JANNEY'S LN)
SHEET NO. 3-9	CCTV 35 (RICHMOND HWY & EAST CUSTIS AVE)
SHEET NO. 3-10	CCTV 36 (N. PATRICK ST & PRINCESS ST)
SHEET NO. 3-11	CCTV 37 (N. WASHINGTON ST & PRINCESS ST)
SHEET NO. 3-12	CCTV 38 (KING ST & DAWES AVE)
SHEET NO. 3-13	CCTV 39 (RICHMOND HWY & FRANKLIN ST)
SHEET NO. 3-14	CCTV 40 (SEMINARY RD & HAMMOND MS)

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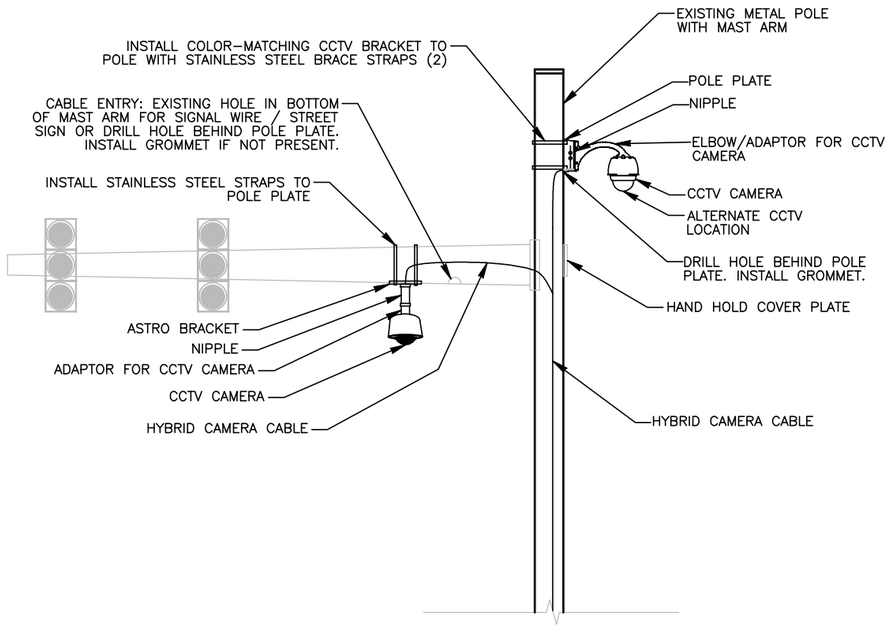
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

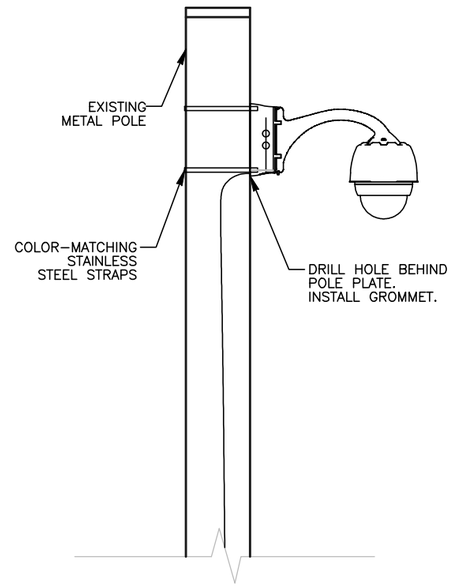
CCTV KEY

SHEET
3-1
SCALE N.T.S.

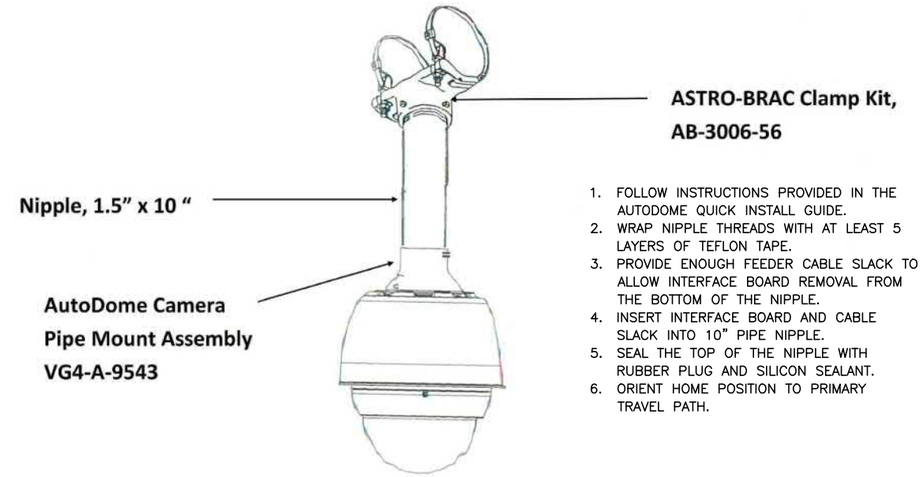
CCTV MOUNT DETAIL A



CCTV MOUNT DETAIL B

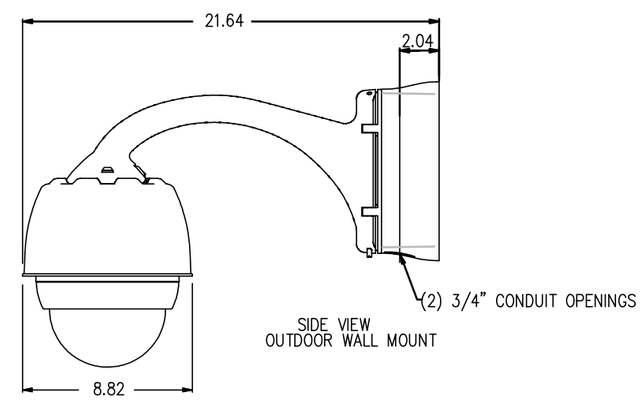


CAMERA INSTALLATION DETAILS – MAST ARM MOUNT

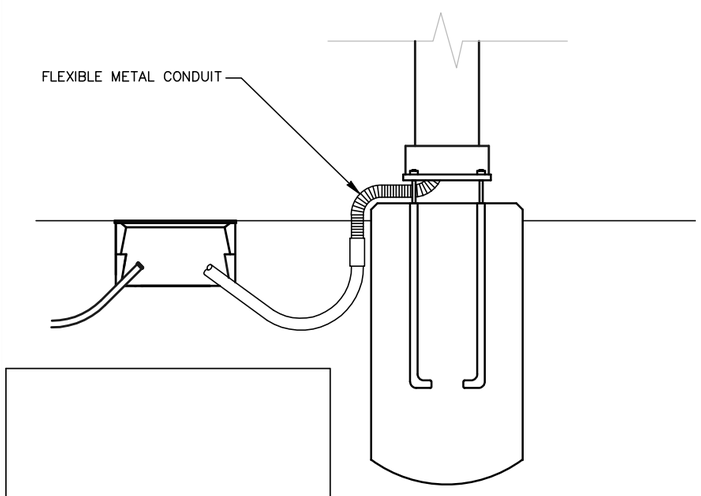


1. FOLLOW INSTRUCTIONS PROVIDED IN THE AUTODOME QUICK INSTALL GUIDE.
2. WRAP NIPPLE THREADS WITH AT LEAST 5 LAYERS OF TEFLON TAPE.
3. PROVIDE ENOUGH FEEDER CABLE SLACK TO ALLOW INTERFACE BOARD REMOVAL FROM THE BOTTOM OF THE NIPPLE.
4. INSERT INTERFACE BOARD AND CABLE SLACK INTO 10" PIPE NIPPLE.
5. SEAL THE TOP OF THE NIPPLE WITH RUBBER PLUG AND SILICON SEALANT.
6. ORIENT HOME POSITION TO PRIMARY TRAVEL PATH.

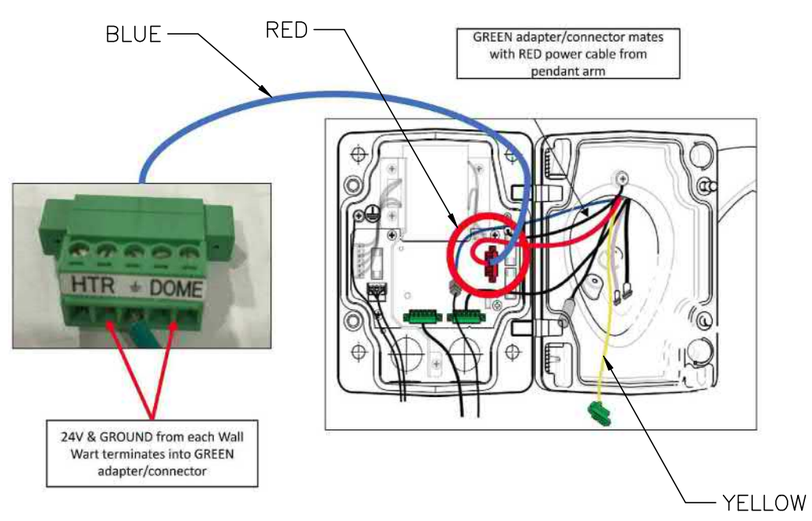
CAMERA INSTALLATION DETAILS – POLE MOUNT



CCTV MOUNT DETAIL C



PENDANT MOUNT WIRING DETAILS



GROUNDING NOTES:

1. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
2. BOND #6 AWG SOLID BARE COPPER WIRE TO SIGNAL POLE BY AN EXOTHERMIC WELD METHOD.
3. ENSURE CAMERA HOUSING, CAMERA, AND PAN–TILT UNIT ARE BONDED TO POLE.
4. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30–FOOT SECTIONAL GROUND ROD WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 – RADIAL GROUND RODS.
5. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

CCTV MOUNTING NOTES:

1. BAND CCTV CAMERA MOUNTING BRACKET AND CABLE TO MAST ARM POLE USING STAINLESS STEEL STRAPS.
2. BOND CAMERA HOUSING AND CAMERA TO MOUNT POLE.
3. USE ASTRO BRACKET TO ATTACH CCTV TO MAST ARM POLE.

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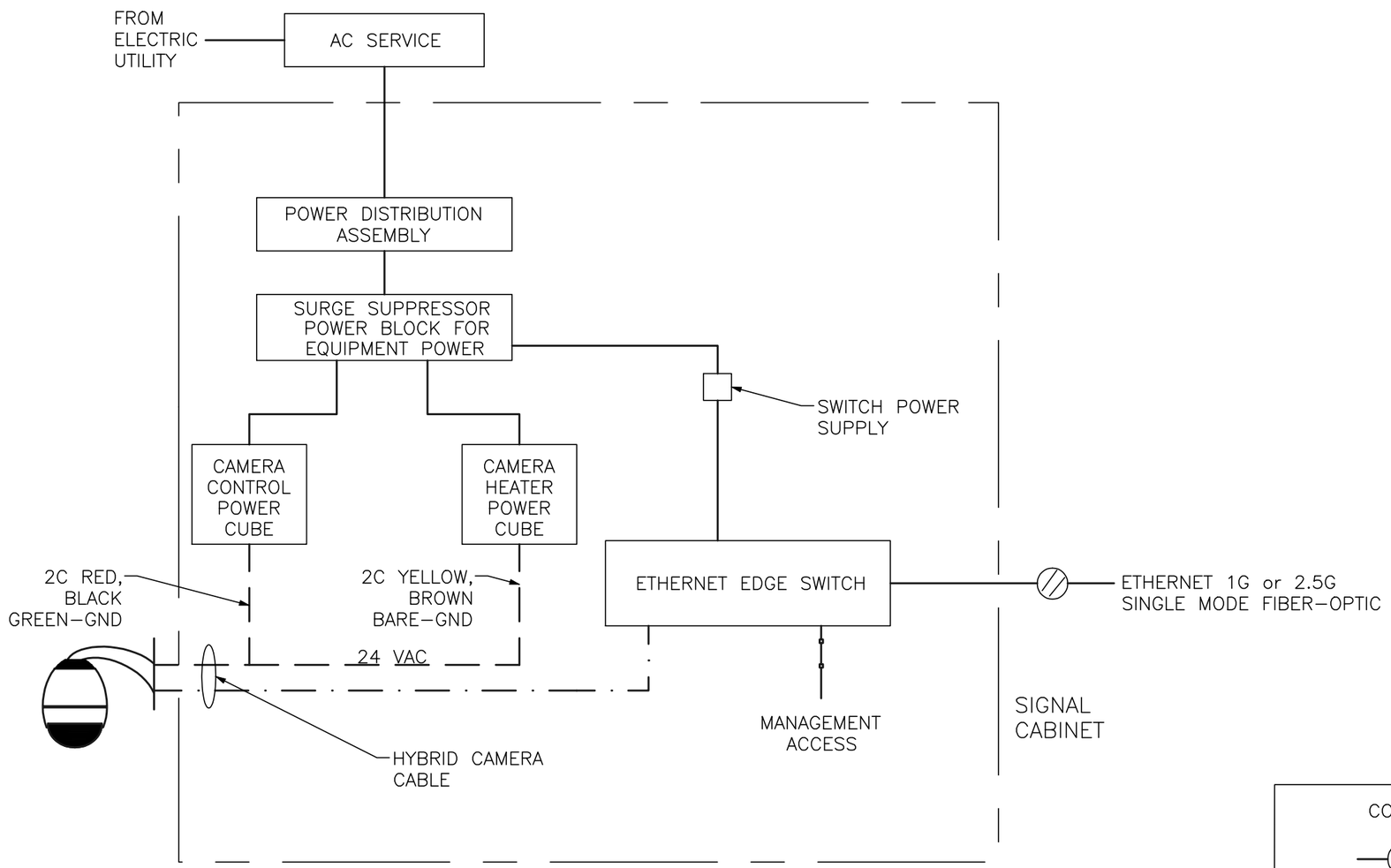
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV MOUNTING DETAILS

SHEET 3–2
SCALE N.T.S.



CCTV BLOCK DIAGRAM

CONNECTION LEGEND

- 1G/2.5G ETHERNET (FIBER)
- 100 BASE TX ETHERNET
- RS–232/422/485
- 120 VAC POWER
- 24 VAC POWER

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CCTV BLOCK DIAGRAM

SHEET 3–3

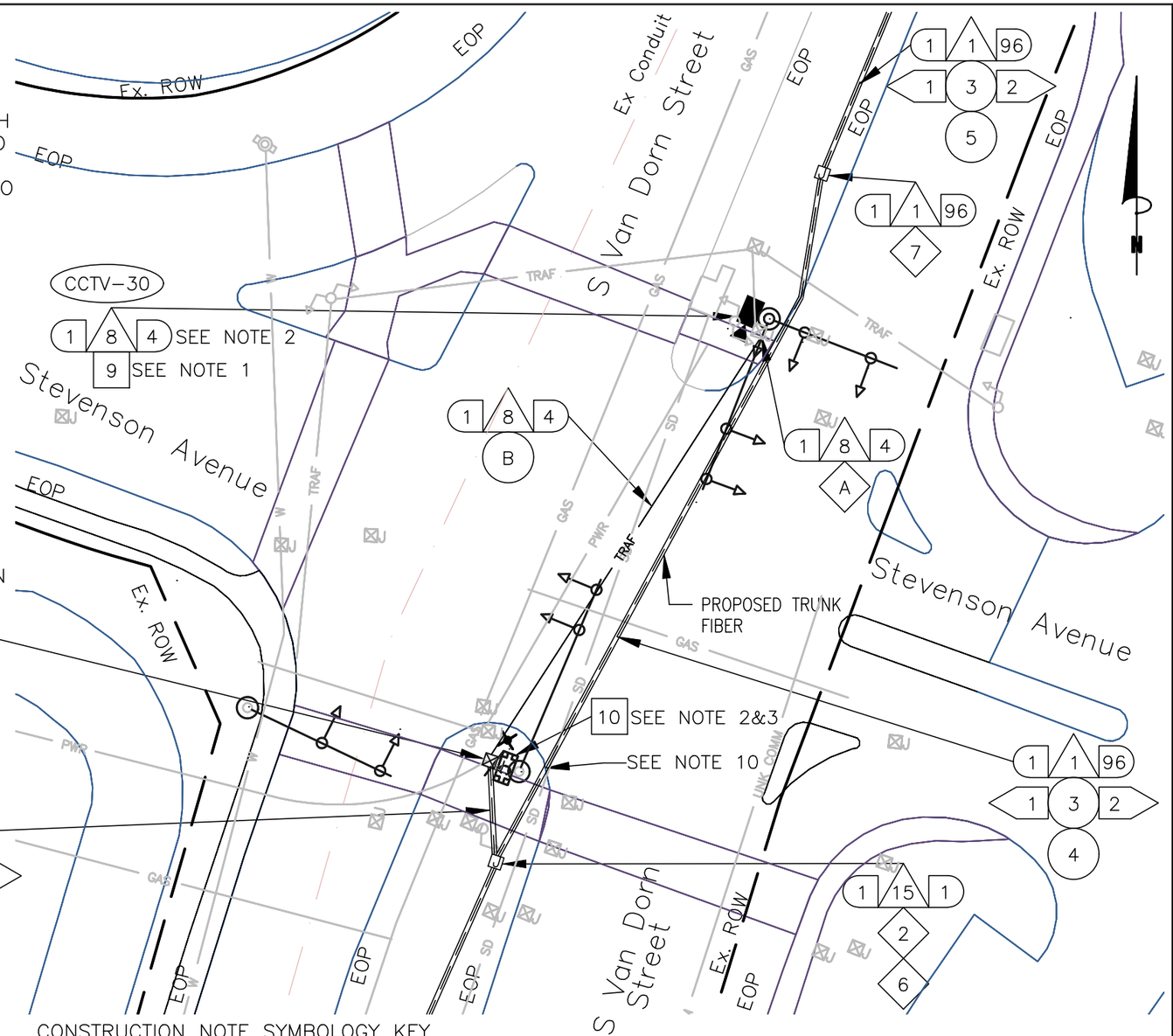
SCALE N.T.S

NOTES:

1. MOUNT CCTV CAMERA 26' HIGH ON SIGNAL POLE. DRILL HOLE IN POLE WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL B (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE DOWN SIGNAL POLE, THROUGH THE FLEXIBLE METAL CONDUIT BETWEEN POLE BASE AND FOUNDATION AND INTO THE EXISTING FIBER JUNCTION BOX. INSTALL HYBRID CAMERA CABLE THROUGH THE EXISTING CONDUIT AND EXISTING JUNCTION BOXES AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL A (SHEET 3–15).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–1 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 120 LF
7. FIBER, SPLICE ENCLOSURE, AND JUNCTION BOX ACCOUNTED FOR ON SHEET 4–69.
8. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.
10. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT



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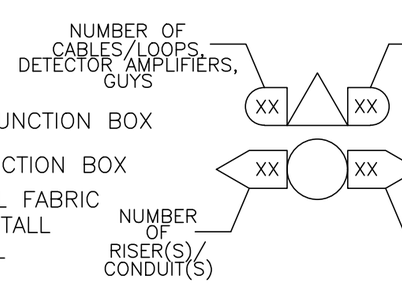

- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #30)
S VAN DORN ST & STEVENSON AVE

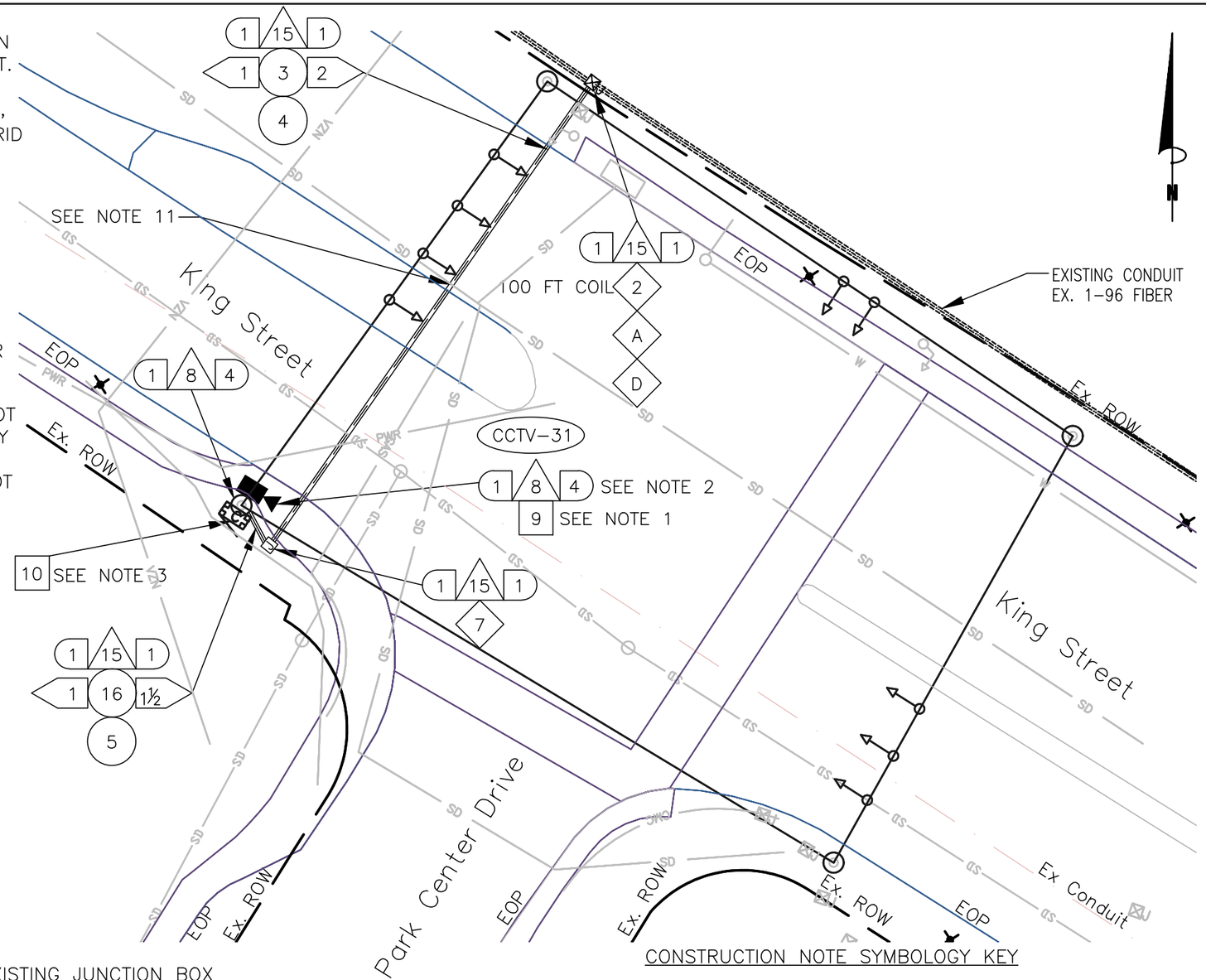
SHEET
3–4

NOTES:

1. MOUNT CCTV CAMERA 26' HIGH ON SIGNAL POLE. DRILL HOLE IN POLE WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL B (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE DOWN SIGNAL POLE, THROUGH 1 ½" CONDUIT AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. CONDUIT WILL TURN VERTICAL VIA A SWEEP AND ENTER THE BOTTOM OF THE CABINET. VERTICAL SECTION SHALL BE RIGID GALVANIZED STEEL (RGS). PLACE VERTICAL RGS AS CLOSE TO THE POLE AS POSSIBLE.
4. SEE CABINET DETAIL B (SHEET 3–15).
5. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
6. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
7. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 30 LF
8. FIBER, SPLICE ENCLOSURE, AND JUNCTION BOX ACCOUNTED FOR ON SHEET 4–69.
9. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.
11. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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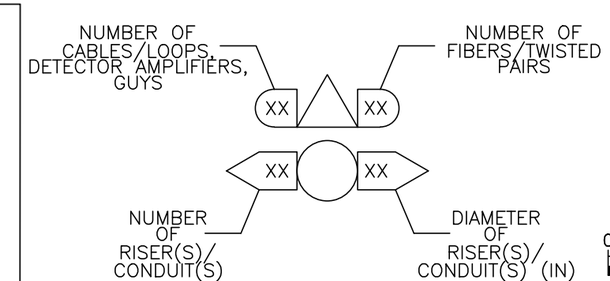

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #31) KING ST & PARK CENTER DR

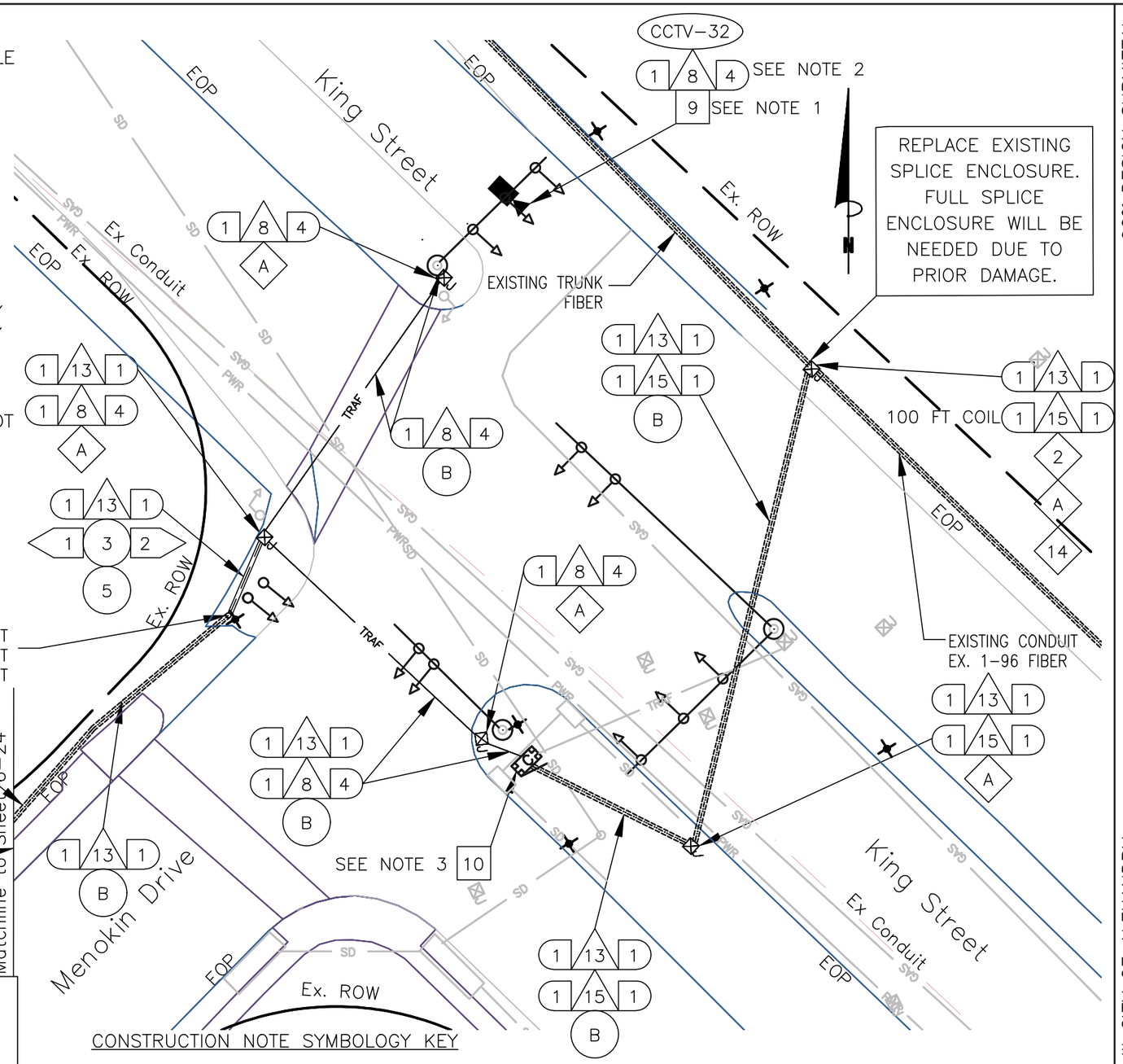
SHEET
3–5

NOTES:

1. MOUNT CCTV CAMERA ON MAST ARM 23' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3-2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH CONDUITS AND JUNCTION BOXES AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL C (SHEET 3-15).
4. SEE SHEET 4-0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5-14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH:160 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC-35, TTC-36 & TTC-28.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #32) KING ST & MENOKIN DR

SHEET
3-6

NOTES:

1. MOUNT CCTV CAMERA ON MAST ARM 18' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH CONDUITS AND JUNCTION BOXES AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL D (SHEET 3–15).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 230 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
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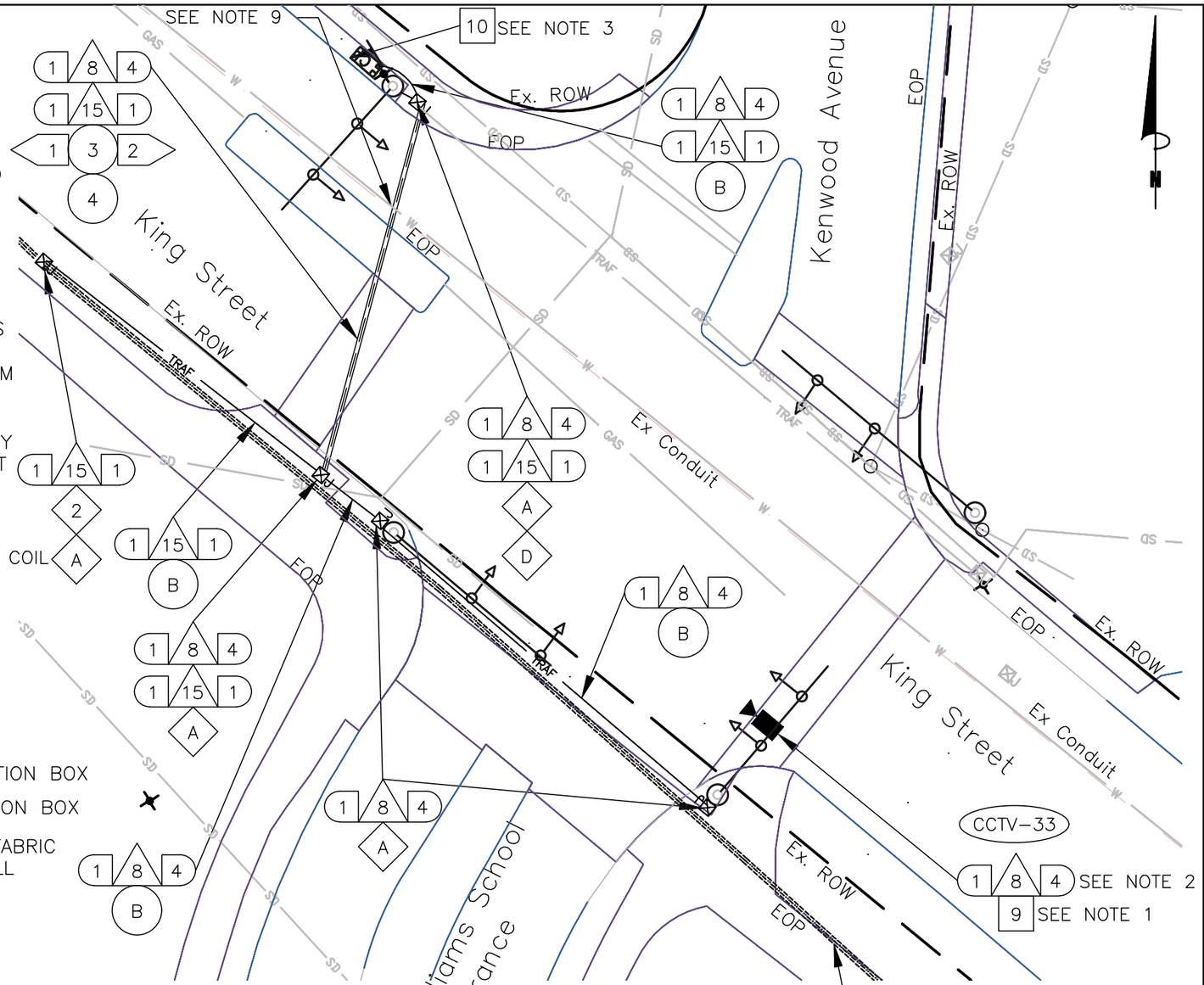
9. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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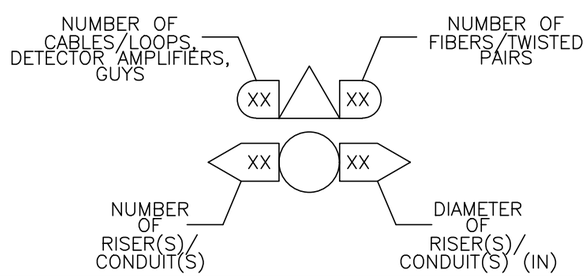

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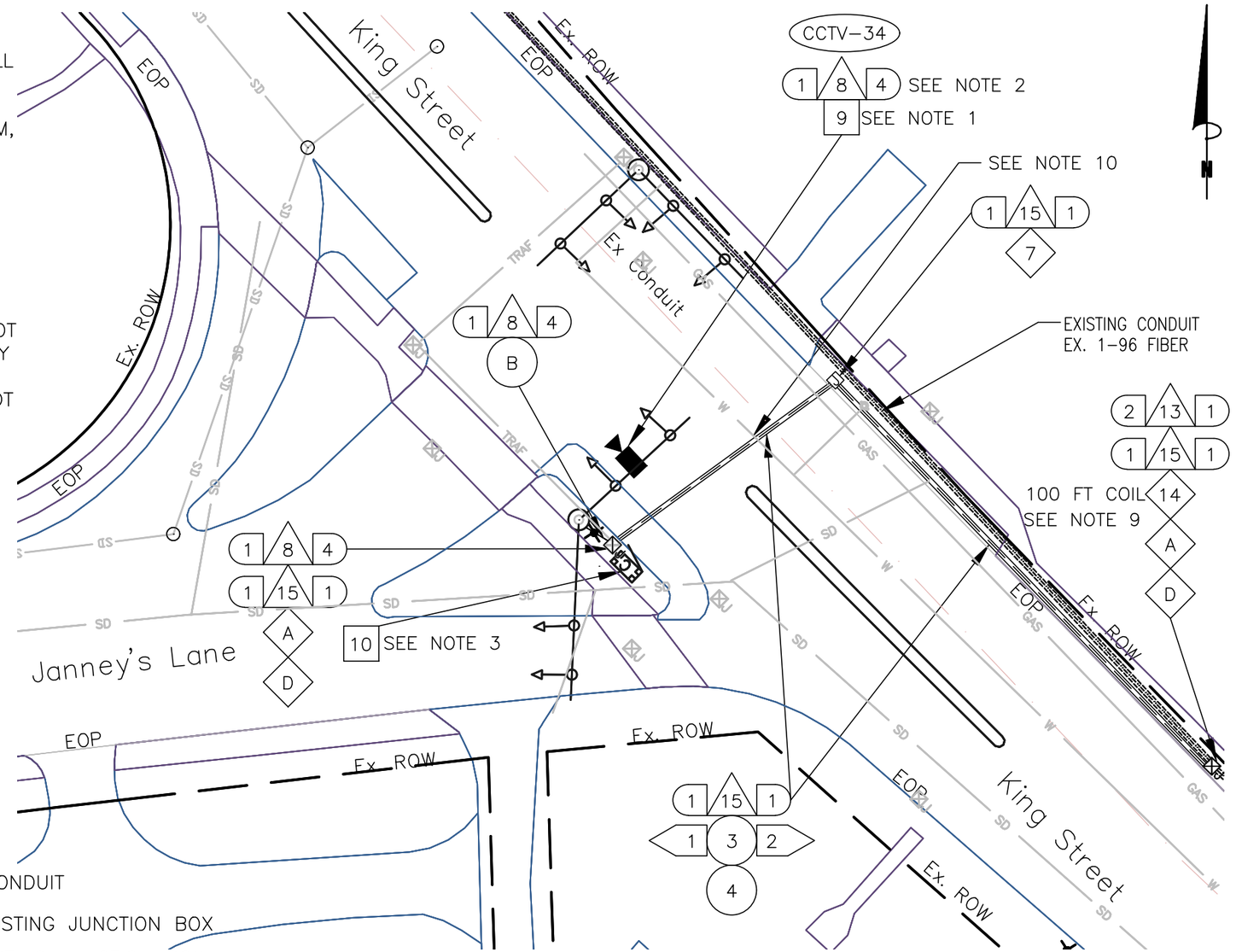
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #33) KING ST & KENWOOD AVE

SHEET
3–7

NOTES:

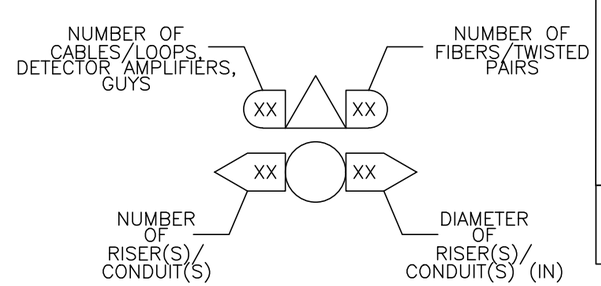
1. MOUNT CCTV CAMERA ON MAST ARM 18' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE 2" CONDUIT WITH 2 CABLES AND A PULL STRING, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL E (SHEET 3–15).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 55 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.
9. PON SPLICE ENCLOSURE TO BE USED. PROPOSED CCTV DROP CABLE TO BE TERMINATED IN THE SPLICE TRAY. PON SC–APC CONNECTOR TERMINATED IN ACCESS COMPARTMENT.
10. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



NOTE: REFER SHEETS 6–27A,27B,27C FOR MICROTRENCH CONDUIT.

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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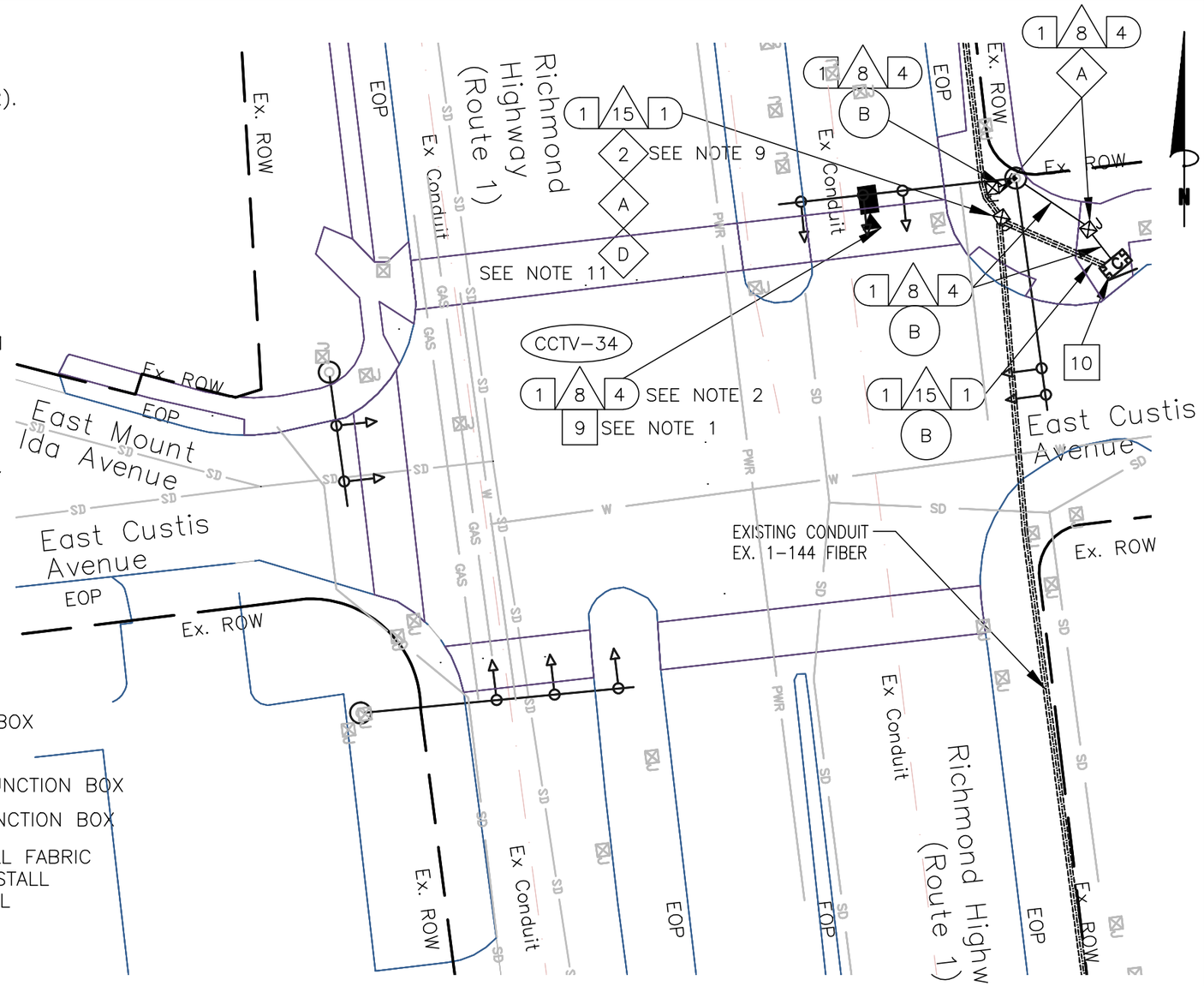
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #34) KING ST & JANNEY'S LN

SHEET 3–8

NOTES:

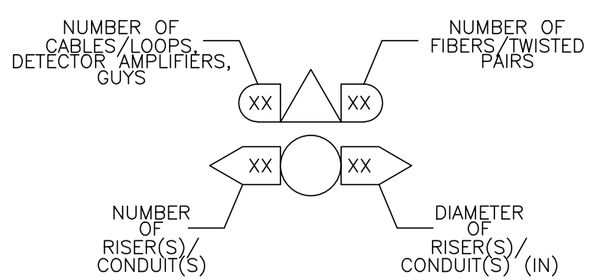
1. MOUNT CCTV CAMERA ON MAST ARM 26' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE EXISTING CONDUIT AND JUNCTION BOXES, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL G (SHEET 3–16).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 80 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
8. EXISTING SPLICE CLOSURE WILL BE REMOVED. JUNCTION BOX MAY NEED MODIFICATION TO FIT CCTV ENCLOSURE. PON CONNECTION TO BE FUSION SPLICED IN SPLICE TRAY.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.



KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #35)
RICHMOND HWY (ROUTE 1) &
EAST CUSTIS AVE

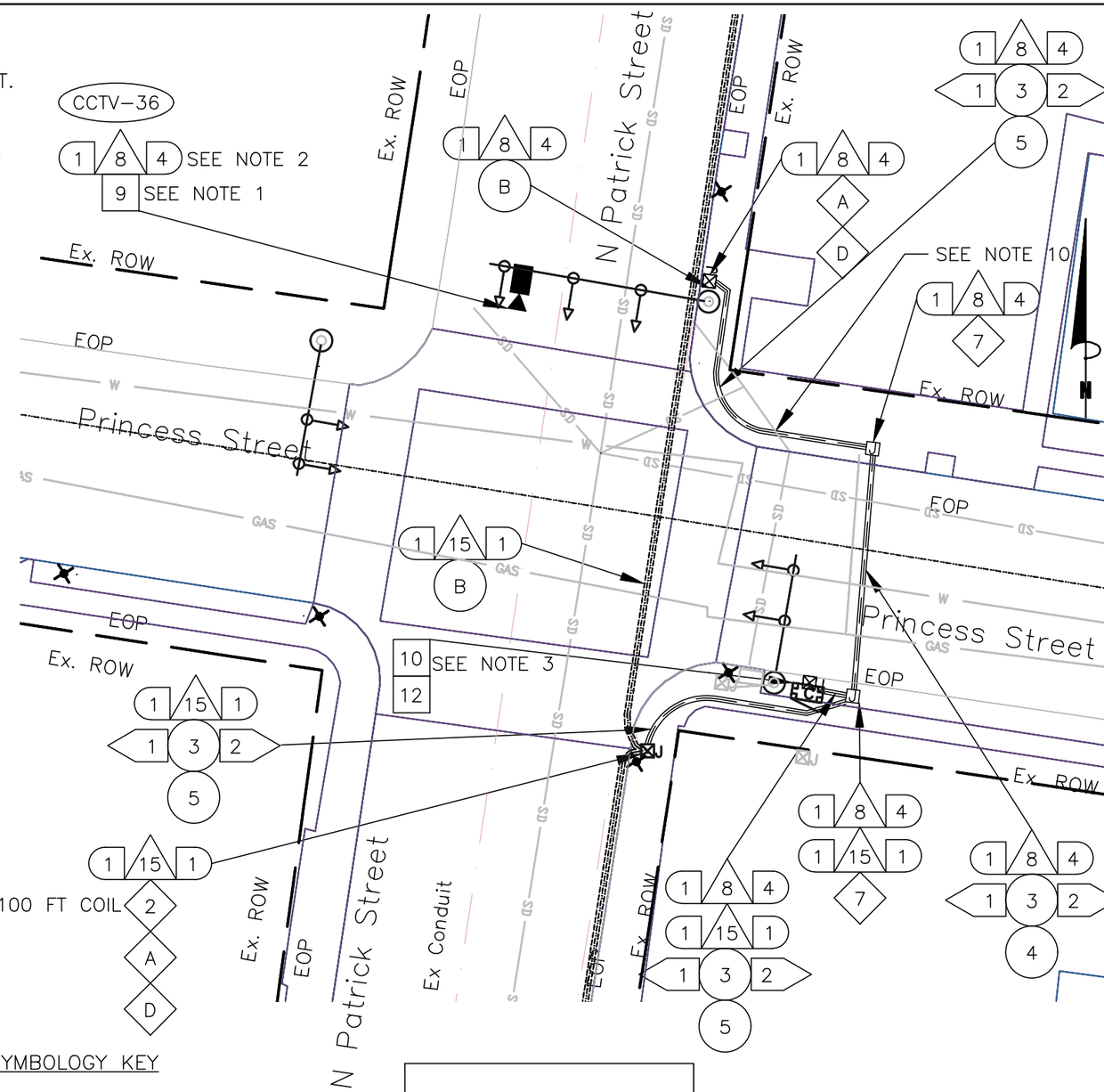
SHEET
3–9

NOTES:

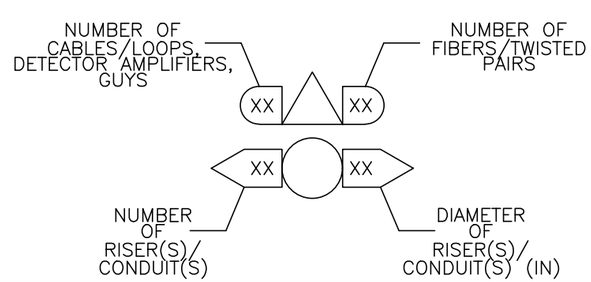
1. MOUNT CCTV CAMERA ON MAST ARM 32' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE 2" CONDUIT WITH 2 CABLES AND A PULL STRING, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL G (SHEET 3–16).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 155 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
8. INTERSECTION WILL BE MODIFIED IN 2021. CONTRACTOR WILL CONTACT MARK SKINGER (703–746–4148) FOR REVISION PLANS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.
10. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY



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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
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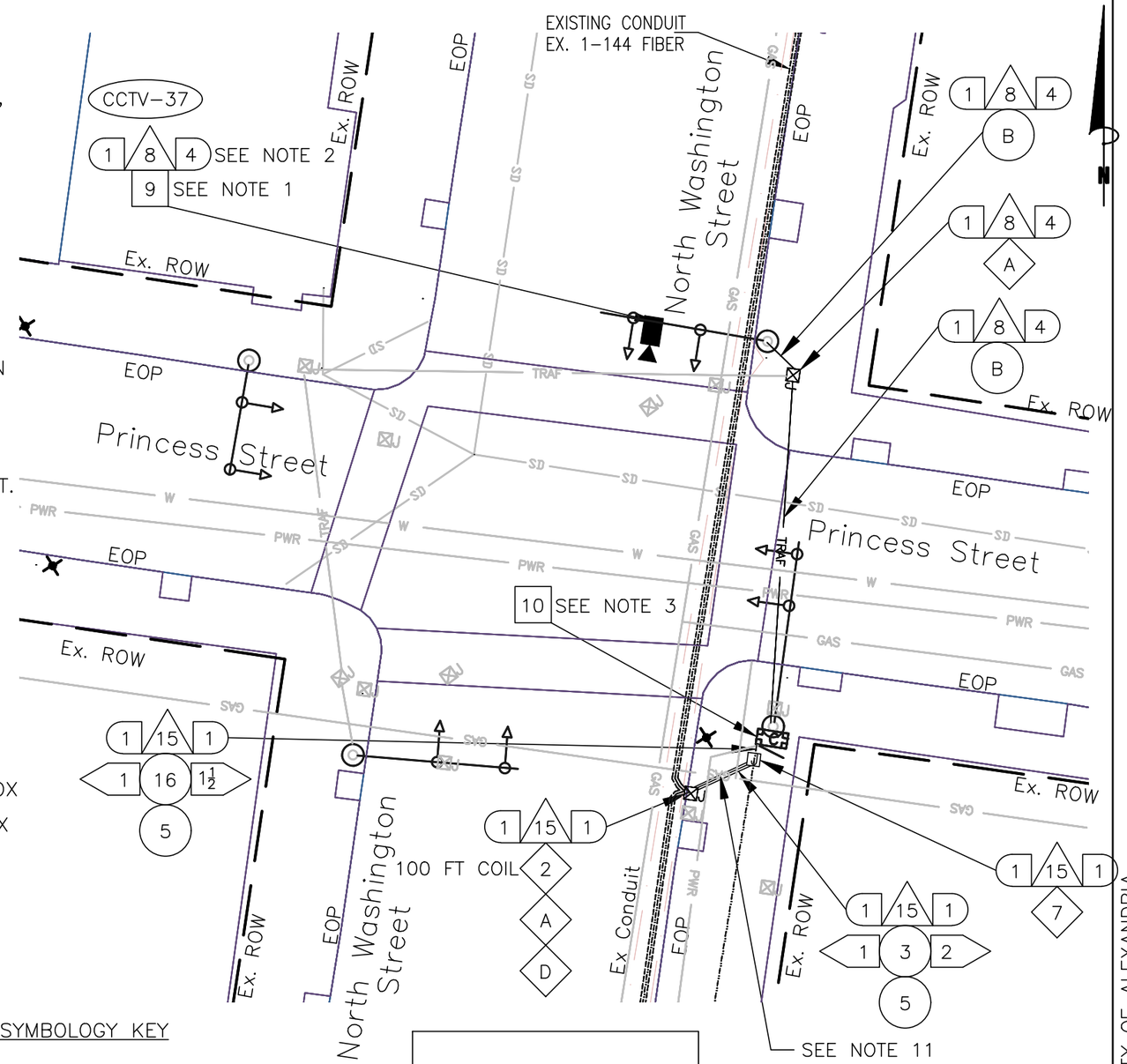
CCTV INSTALLATION (CCTV #36)
NORTH PATRICK ST & PRINCESS ST

SHEET
3–10

NOTES:

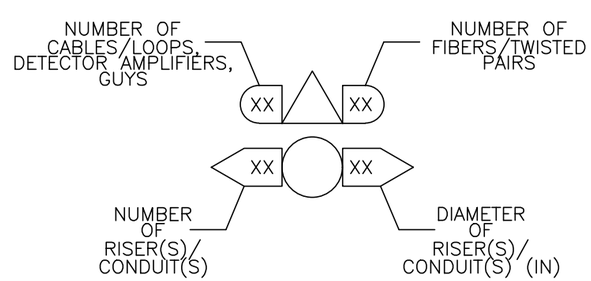
1. MOUNT CCTV CAMERA ON MAST ARM 18' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL B (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE DOWN SIGNAL POLE, THROUGH 1 ½" CONDUIT AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. CONDUIT WILL TURN VERTICAL VIA A SWEEP AND ENTER THE BOTTOM OF THE CABINET. VERTICAL SECTION SHALL BE RIGID GALVANIZED STEEL (RGS). PLACE VERTICAL RGS AS CLOSE TO THE POLE AS POSSIBLE. PAINT RGS BLACK.
4. SEE CABINET DETAIL H (SHEET 3–16).
5. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
6. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
7. TOTAL CAT 5E CABLE ROUTE LENGTH: 45 LF
8. MISS UTILITY (1–800–522–7001) TICKET A911502752. VZN IS AFFECTED.
9. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.
11. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



KEY

1	FURNISH & INSTALL NEW SMFO CABLE
2	FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
3	FURNISH & INSTALL NEW PE CONDUIT
4	DIRECTIONAL DRILL
5	TRENCH/SAW CUT
6	FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
7	FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
8	FURNISH & INSTALL HYBRID CAMERA CABLE
9	FURNISH & INSTALL CCTV CAMERA
10	FURNISH & INSTALL NEW EQUIPMENT
11	FURNISH AND INSTALL NEW CABINET
12	CORE DRILL EXISTING CABINET FOUNDATION
13	FURNISH & INSTALL PON DROP CABLE
14	FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15	FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16	FURNISH & INSTALL NEW RGS/PVC CONDUIT
A	EXISTING JUNCTION BOX
B	EXISTING CONDUIT
C	REMOVE EXISTING JUNCTION BOX
D	MODIFY EXISTING JUNCTION BOX
E	FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #37)
N WASHINGTON ST & PRINCESS ST

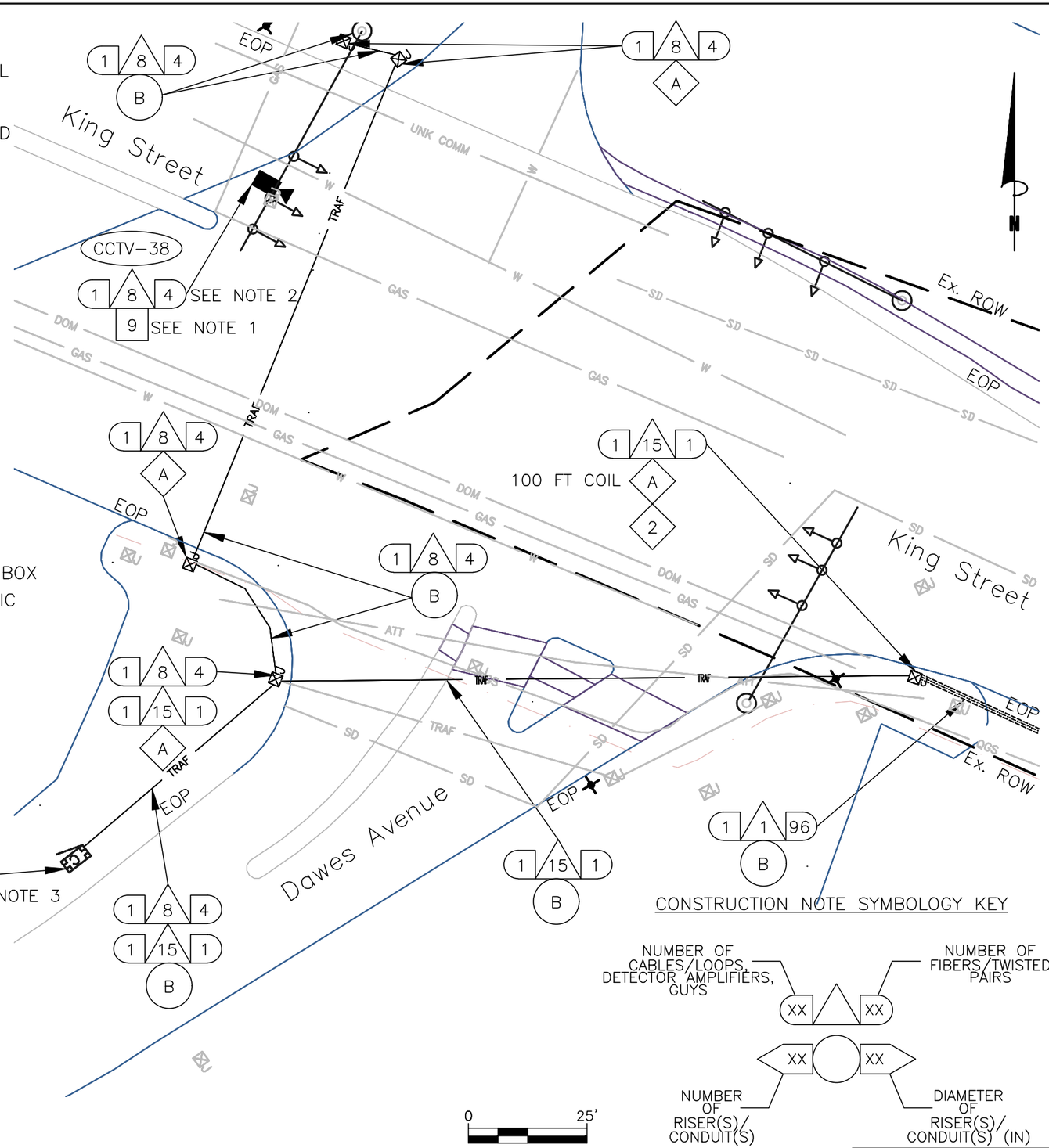
SHEET
3–11

NOTES:

1. MOUNT CCTV CAMERA ON MAST ARM 15' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE EXISTING CONDUIT AND JUNCTION BOXES, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL I (SHEET 3–16).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 280 LF
7. MISS UTILITY (1–800–522–7001) TICKET A911502766. FBL, & ZAY ARE AFFECTED.
8. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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CCTV INSTALLATION (CCTV #38)
KING ST & DAWES AVE

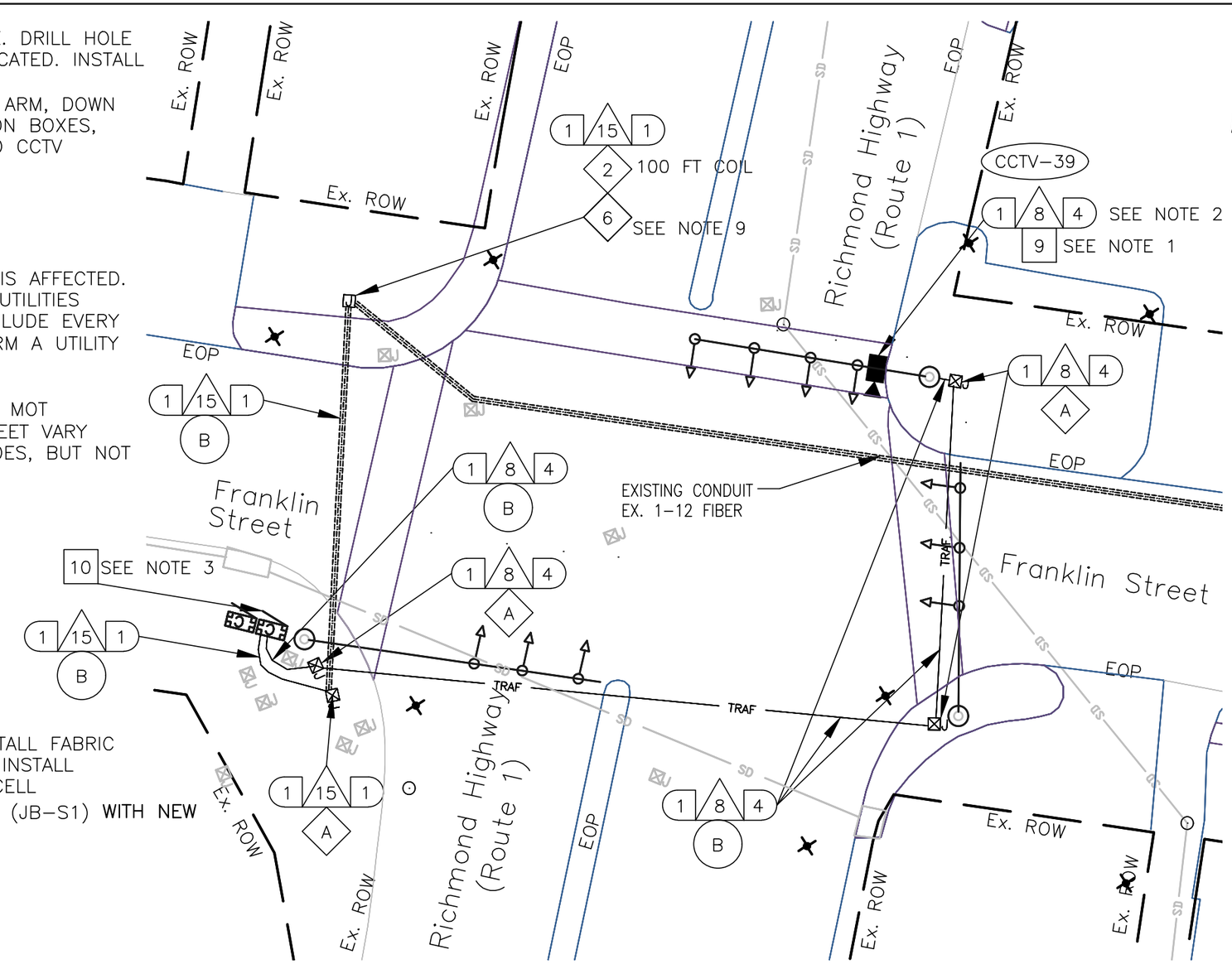
SHEET
3–12

NOTES:

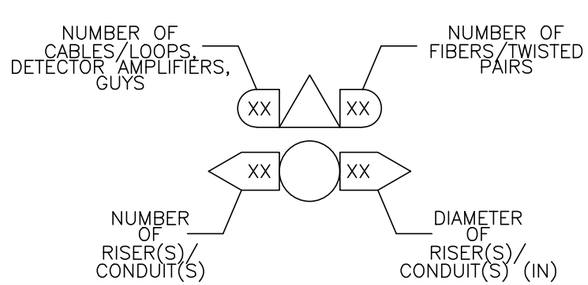
1. MOUNT CCTV CAMERA ON MAST ARM 11' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE EXISTING CONDUIT AND JUNCTION BOXES, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL J (SHEET 3–16).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 265 LF
7. MISS UTILITY (1–800–522–7001) TICKET A911502773. RTS IS AFFECTED.
8. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
9. EXISTING JB–S1 WILL BE REPLACED BY JB–S3.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL
- (9) REPLACE EXISTING (JB–S1) WITH NEW (JB–S3)



CONSTRUCTION NOTE SYMBOLOGY KEY



NOTE: RIGHT OF WAY LINES ARE BASED ON CITY OF ALEXANDRIA GIS PARCEL DATA AND MAY VARY FROM ACTUAL RIGHT OF WAY.

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CCTV INSTALLATION (CCTV #39)
RICHMOND HWY (ROUTE 1) &
FRANKLIN ST

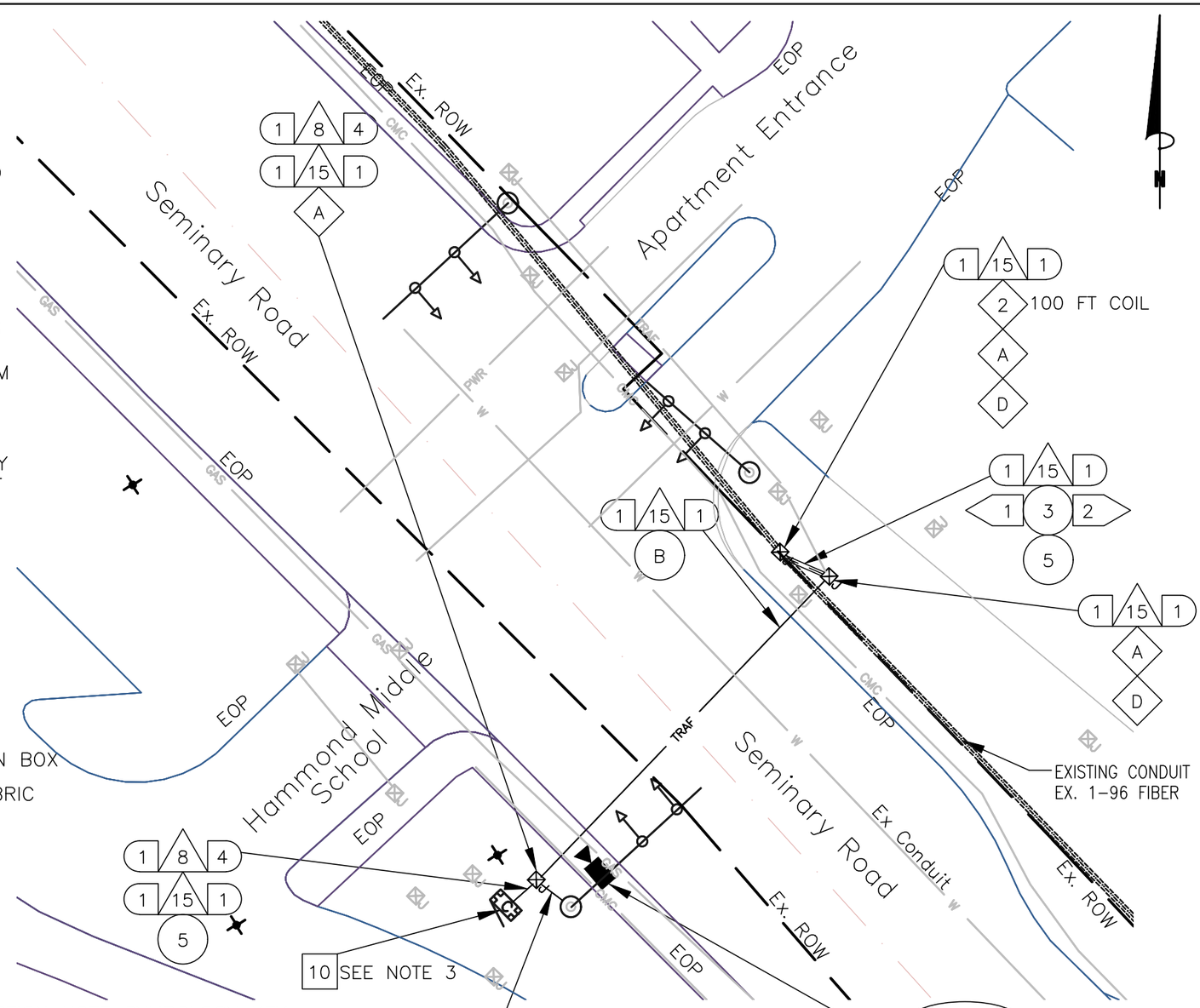
SHEET
3–13

NOTES:

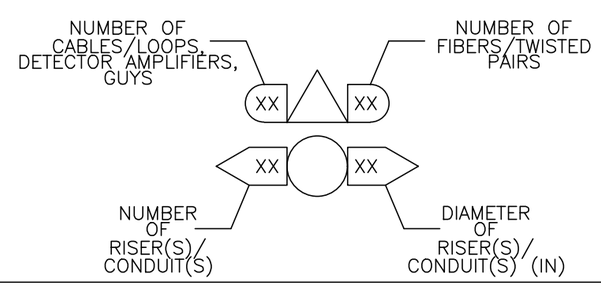
1. MOUNT CCTV CAMERA ON MAST ARM 8' FROM SIGNAL POLE. DRILL HOLE IN BOTTOM OF MAST ARM WHERE CCTV CAMERA WILL BE LOCATED. INSTALL GROMMET. SEE CCTV MOUNT DETAIL A (SHEET 3–2).
2. INSTALL HYBRID CAMERA CABLE FROM HOLE THROUGH MAST ARM, DOWN SIGNAL POLE, THROUGH THE 2" CONDUIT WITH 2 CABLES AND A PULL STRING, AND INTO THE CABINET. CONNECT HYBRID CAMERA CABLE TO CCTV CAMERA AND ETHERNET SWITCH.
3. SEE CABINET DETAIL K (SHEET 3–16).
4. SEE SHEET 4–0 FOR CONNECTION TO FIBER TRUNK LINE.
5. SEE SHEET 5–14 FOR SPLICE DIAGRAM.
6. TOTAL HYBRID CAMERA CABLE ROUTE LENGTH: 55 LF
7. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
8. EXISTING SPLICE ENCLOSURE WILL BE REMOVED.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35, TTC–36 & TTC–28.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY



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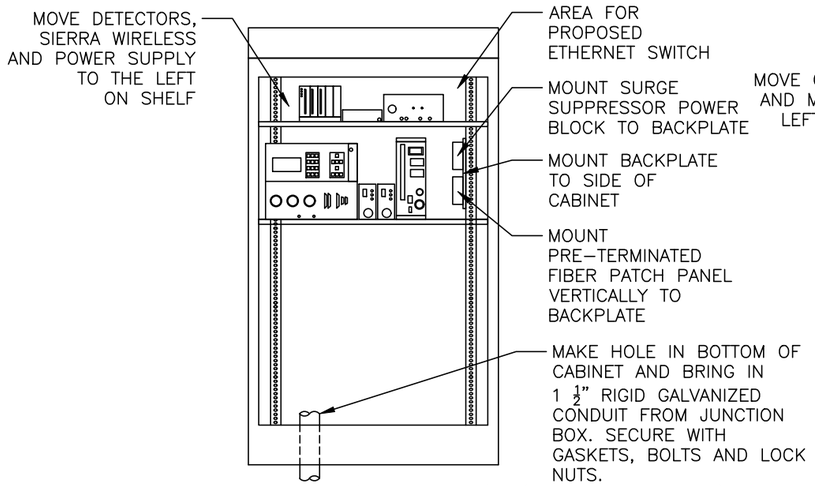
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

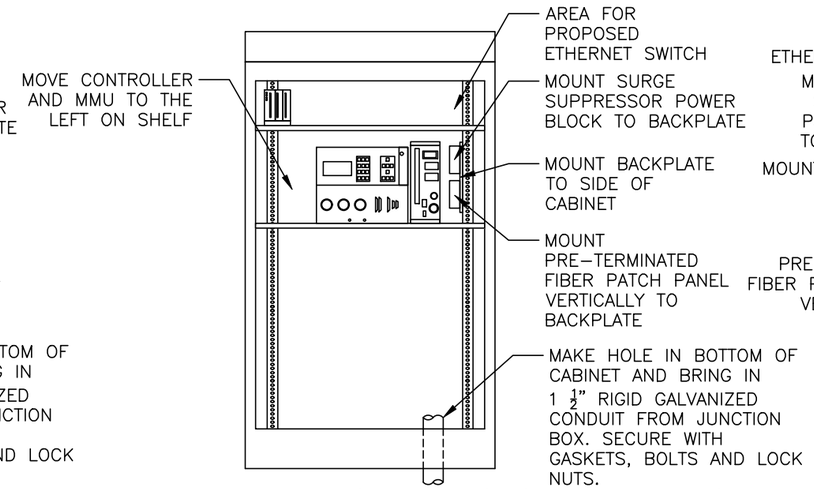
CCTV INSTALLATION (CCTV #40) SEMINARY RD & HAMMOND MS

SHEET
3–14



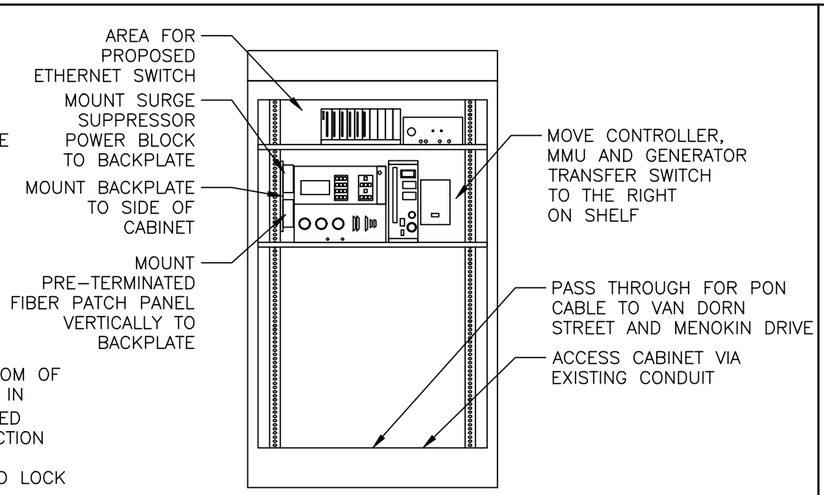
CABINET DETAIL A (EXISTING) (POLE MOUNT)

(S. VAN DORN ST @ STEVENSON AVE)



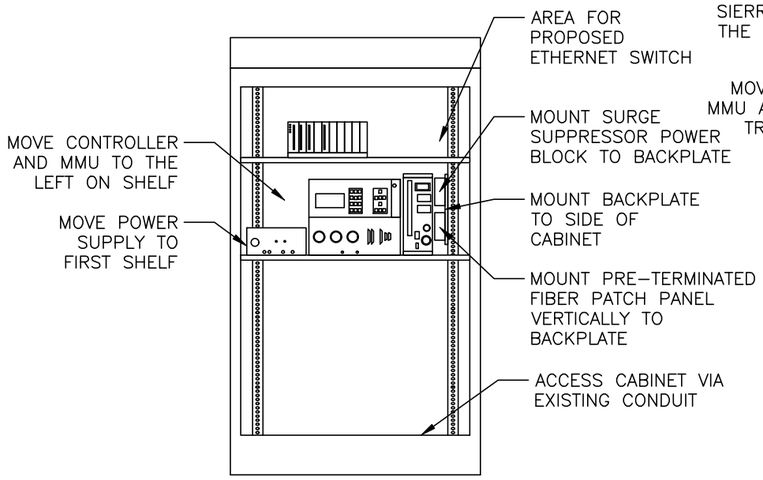
CABINET DETAIL B (EXISTING) (POLE MOUNT)

(KING ST @ PARK CENTER DR)



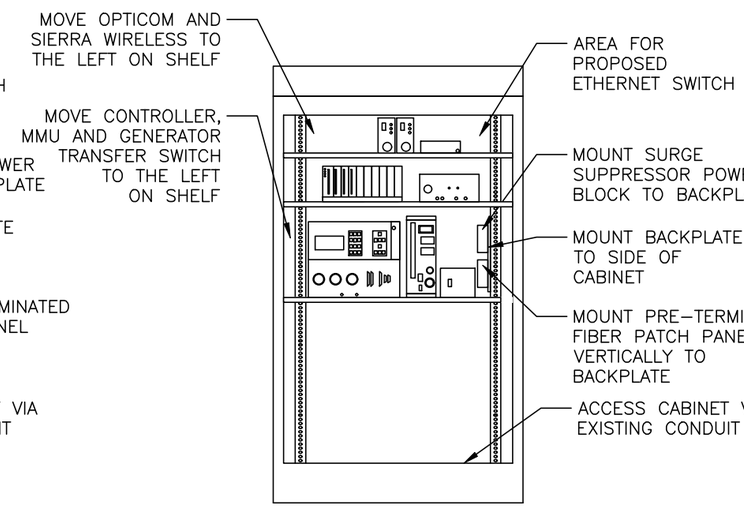
CABINET DETAIL C (EXISTING)

(KING ST @ MENOKIN DR)



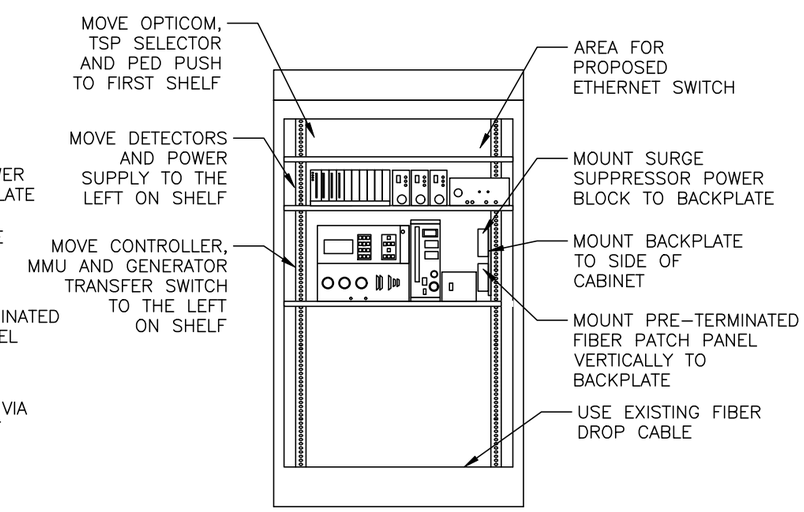
CABINET DETAIL D (EXISTING)

(KING ST @ KENWOOD AVE)



CABINET DETAIL E (EXISTING)

(KING ST @ JANNEY'S LN)



CABINET DETAIL F (EXISTING)

(RICHMOND HWY @ CUSTIS AVE)

NOTES:

1. FURNISH AND INSTALL NEW EQUIPMENT IS INDICATED BY A SQUARE 10 ON THE CCTV INSTALLATION AND INTERCONNECT PLAN SHEETS AND DETAILED BY THE INDIVIDUAL CABINET DETAILS FOR THE TYPE OF EQUIPMENT.
2. PRETERMINATED FIBER PATCH PANEL ASSEMBLY, SURGE SUPPRESSOR POWER BLOCK AND DIN RAILING FOR MOUNTING OF SWITCH AND POWER SUPPLY TO BE INSTALLED ON BACKPLATES.
3. ETHERNET SWITCH AND POWER SUPPLY TO BE DIN RAIL MOUNTED.
4. FOR FINAL DETERMINATION OF EQUIPMENT PLACEMENT CALL MARK SKINGER (703–746–4148).

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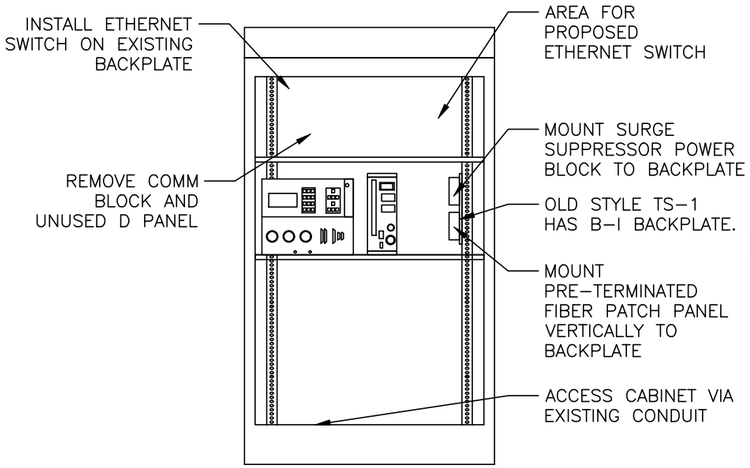
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CABINET DETAIL

SHEET 3–15

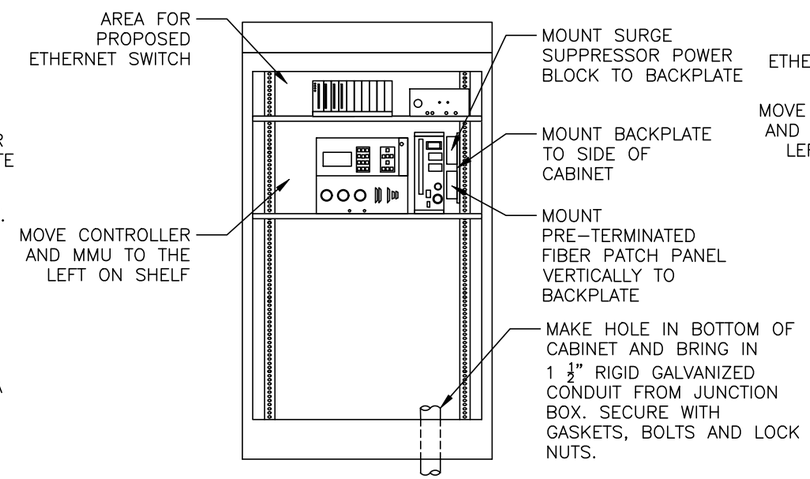
SCALE N.T.S.



CABINET DETAIL G (EXISTING)

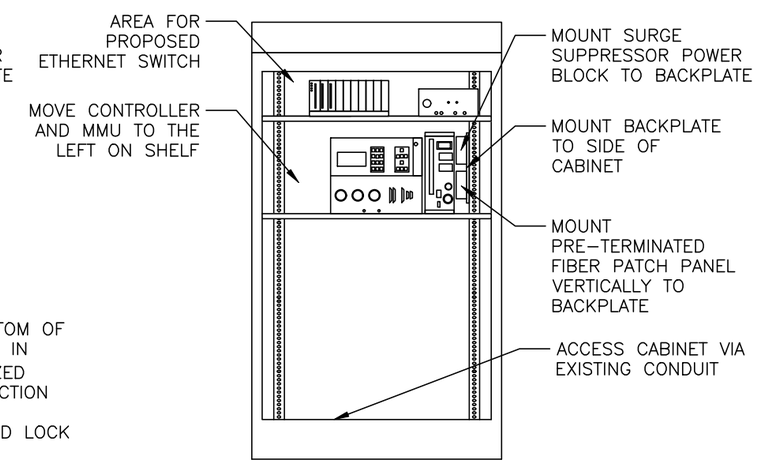
(N. PATRICK ST @ PRINCESS ST)

THE INTERSECTION IS SCHEDULED TO BE REVISED BY 2021



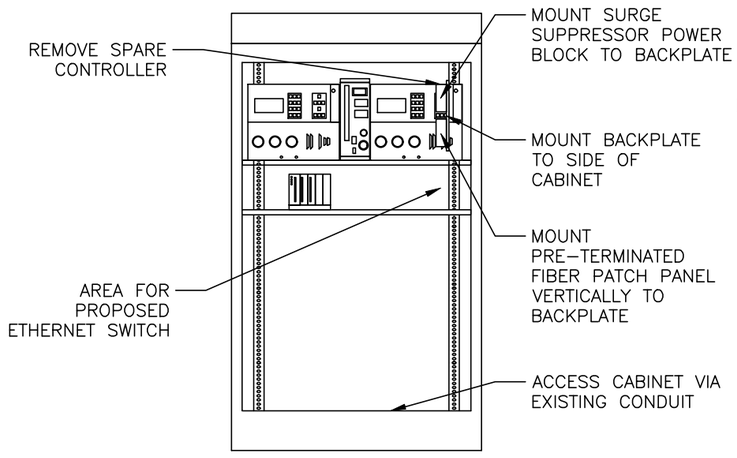
CABINET DETAIL H (EXISTING) (POLE MOUNT)

(N. WASHINGTON ST @ PRINCESS ST)



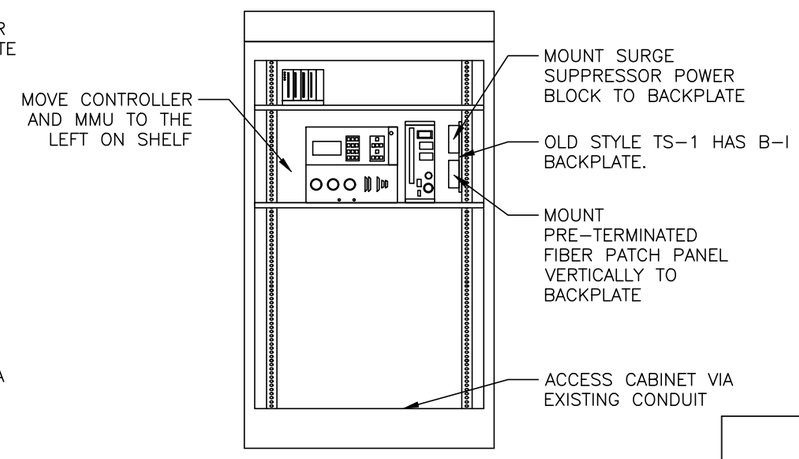
CABINET DETAIL I (EXISTING)

(KING ST @ DAWES AVE)



CABINET DETAIL J (EXISTING)

(RICHMOND HWY @ FRANKLIN ST)



CABINET DETAIL K (EXISTING)

(SEMINAR RD @ HAMMOND MS)

NOTES:

1. FURNISH AND INSTALL NEW EQUIPMENT IS INDICATED BY A SQUARE 10 ON THE CCTV INSTALLATION AND INTERCONNECT PLAN SHEETS AND DETAILED BY THE INDIVIDUAL CABINET DETAILS FOR THE TYPE OF EQUIPMENT.
2. PRETERMINATED FIBER PATCH PANEL ASSEMBLY, SURGE SUPPRESSOR POWER BLOCK AND DIN RAILING FOR MOUNTING OF SWITCH AND POWER SUPPLY TO BE INSTALLED ON BACKPLATES.
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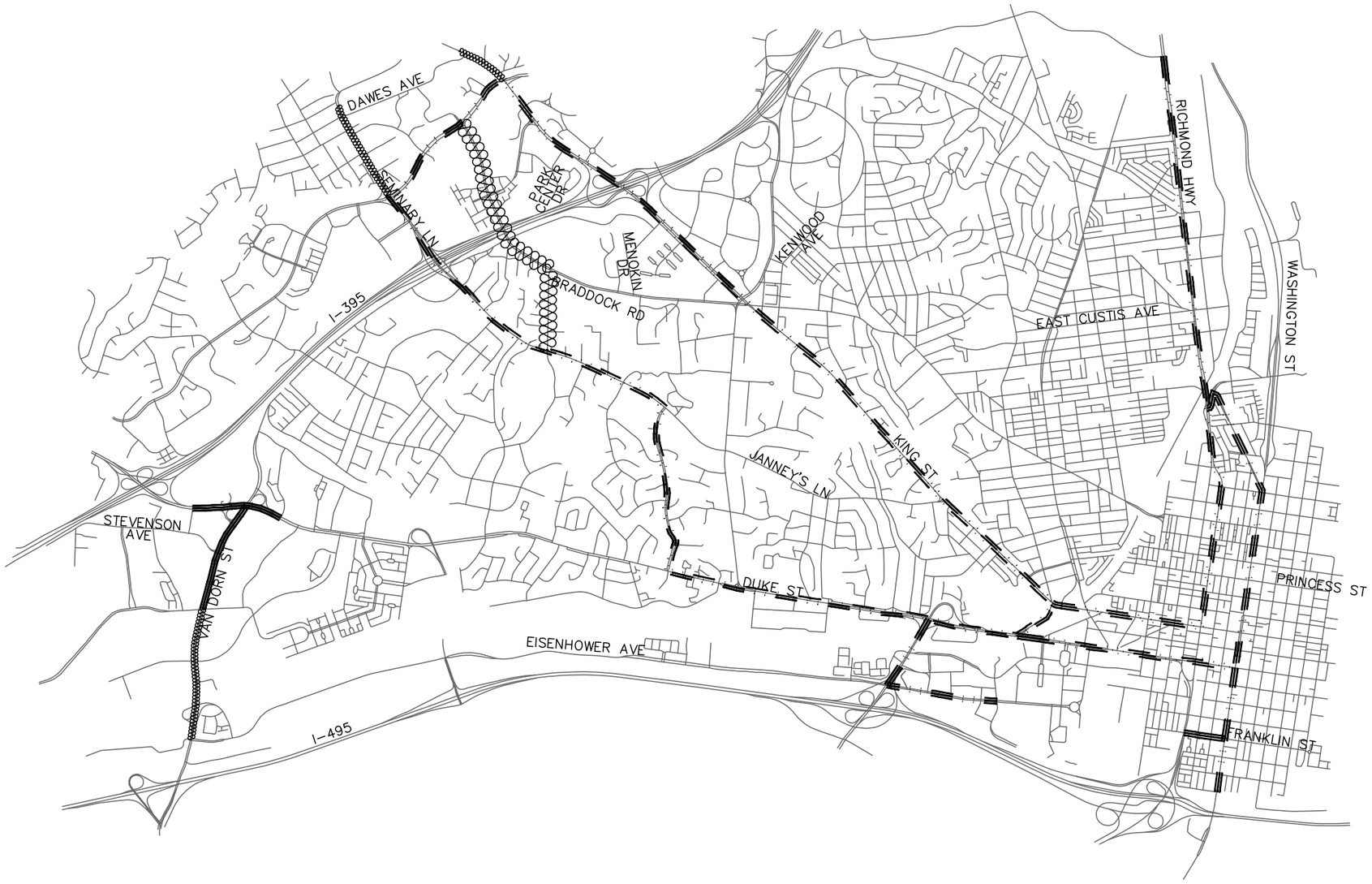
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CABINET DETAIL

SHEET 3-16

SCALE N.T.S.



NEW FIBER EXISTING CONDUIT

NEW FIBER NEW CONDUIT

EXISTING FIBER EXISTING CONDUIT

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CABLE SCHEMATIC

SHEET
1-0

NOTES:

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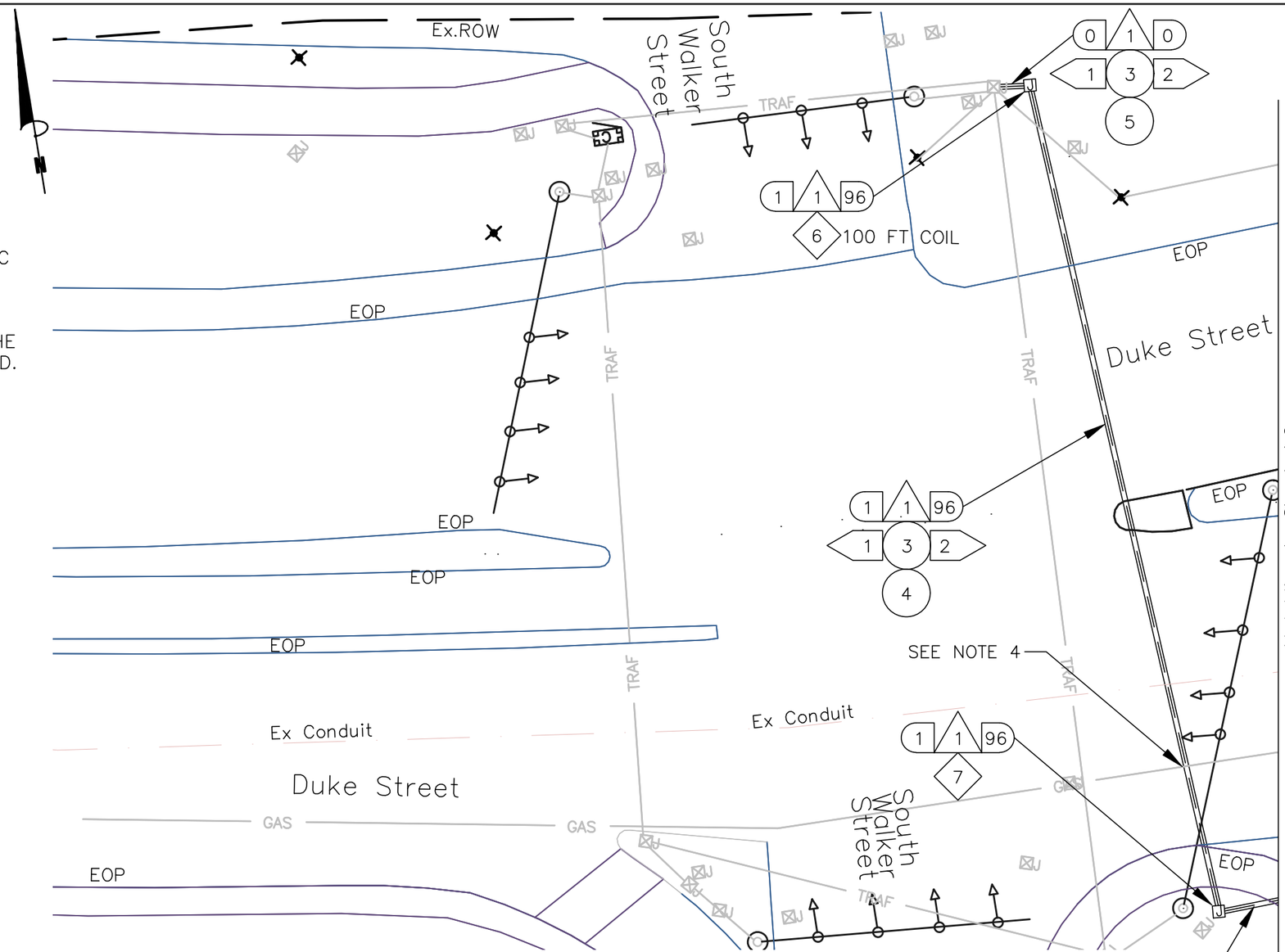
2. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE REQUIRED MOT TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TTC–35, TTC–36 & TTC–28.
3. THE PROPOSED FIBER WILL TERMINATE IN THE JUNCTION BOX ON THE NORTH–EAST CORNER OF THE INTERSECTION. END SHALL BE APPROPRIATELY SEALED.
4. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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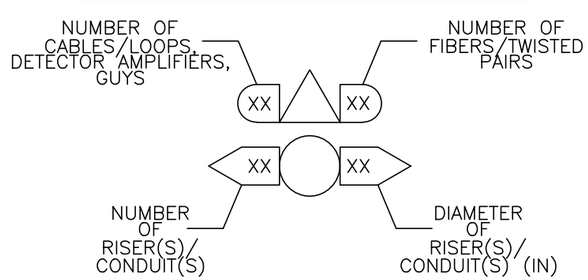

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET 4–1

NOTES:

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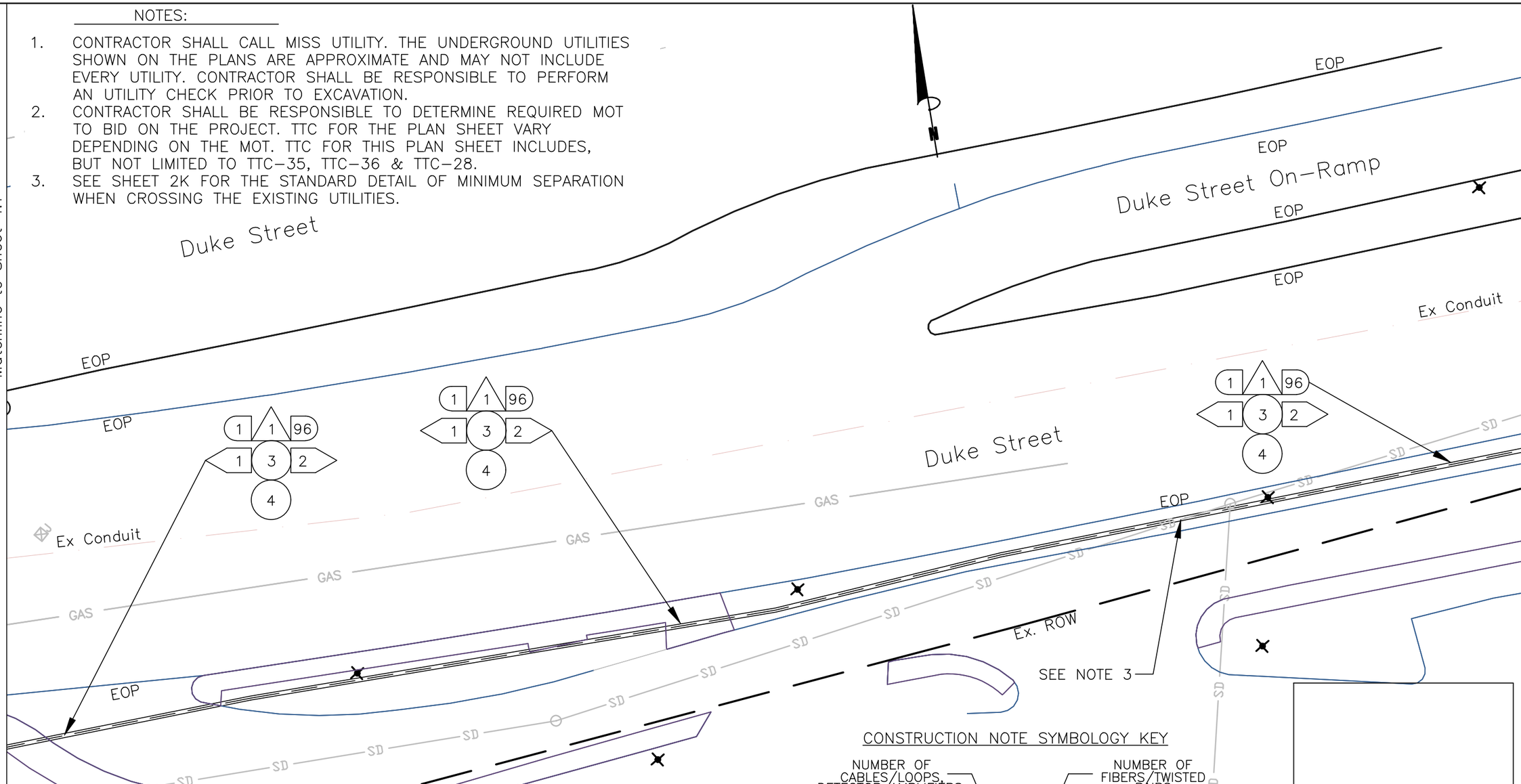
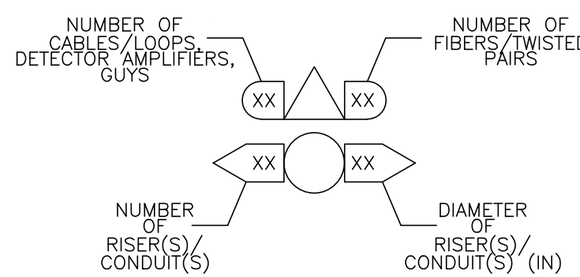
3. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT

CONSTRUCTION NOTE SYMBOLOGY KEY



- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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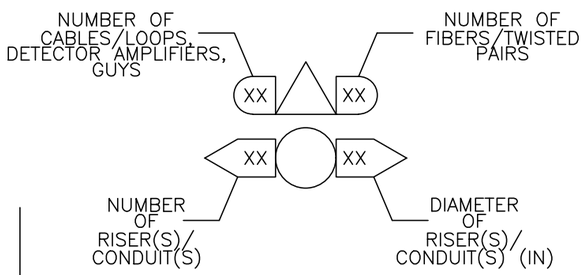
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET 4-2

CONSTRUCTION NOTE SYMBOLOGY KEY



KEY

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7. FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
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11. FURNISH AND INSTALL NEW CABINET
12. CORE DRILL EXISTING CABINET FOUNDATION
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14. FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

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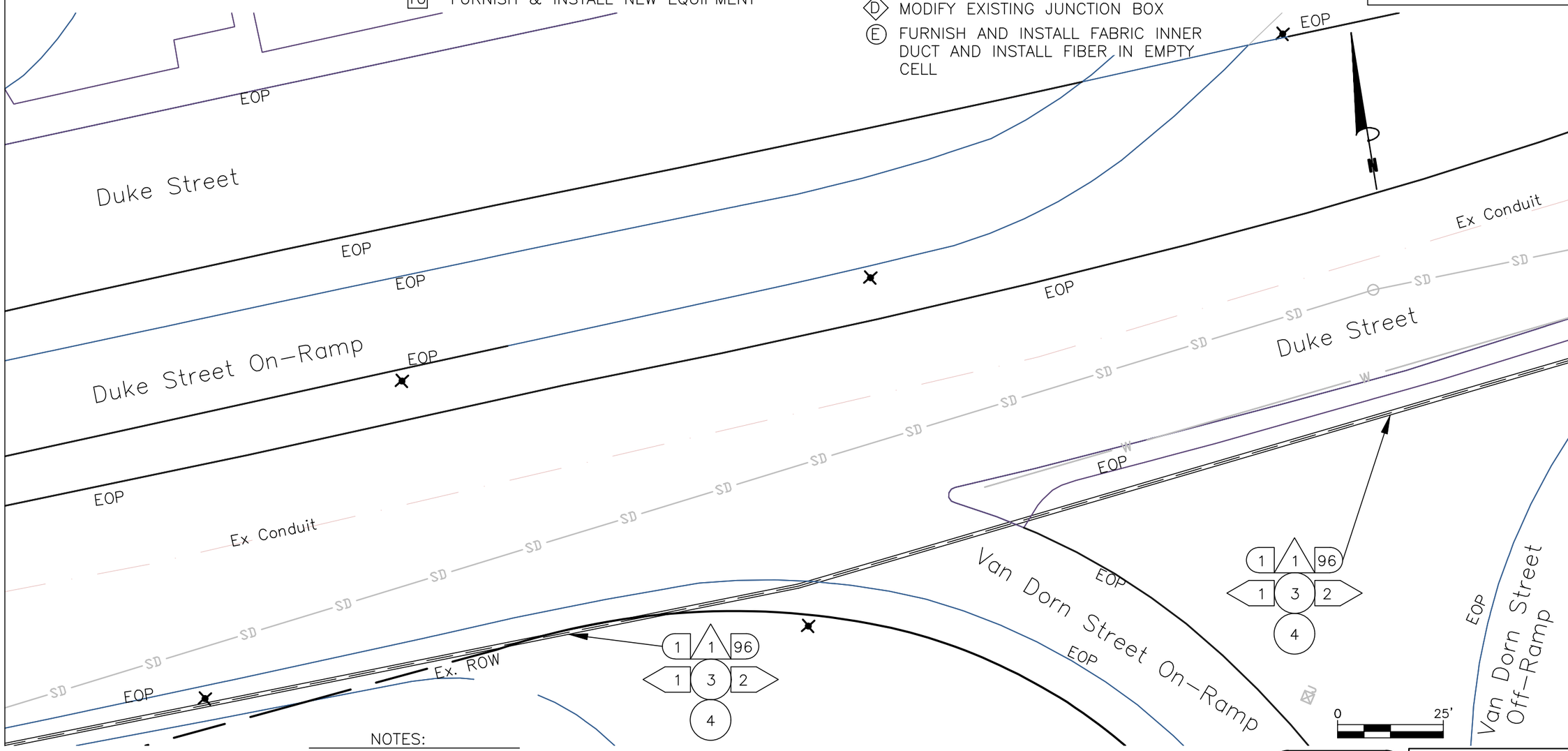
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
E. FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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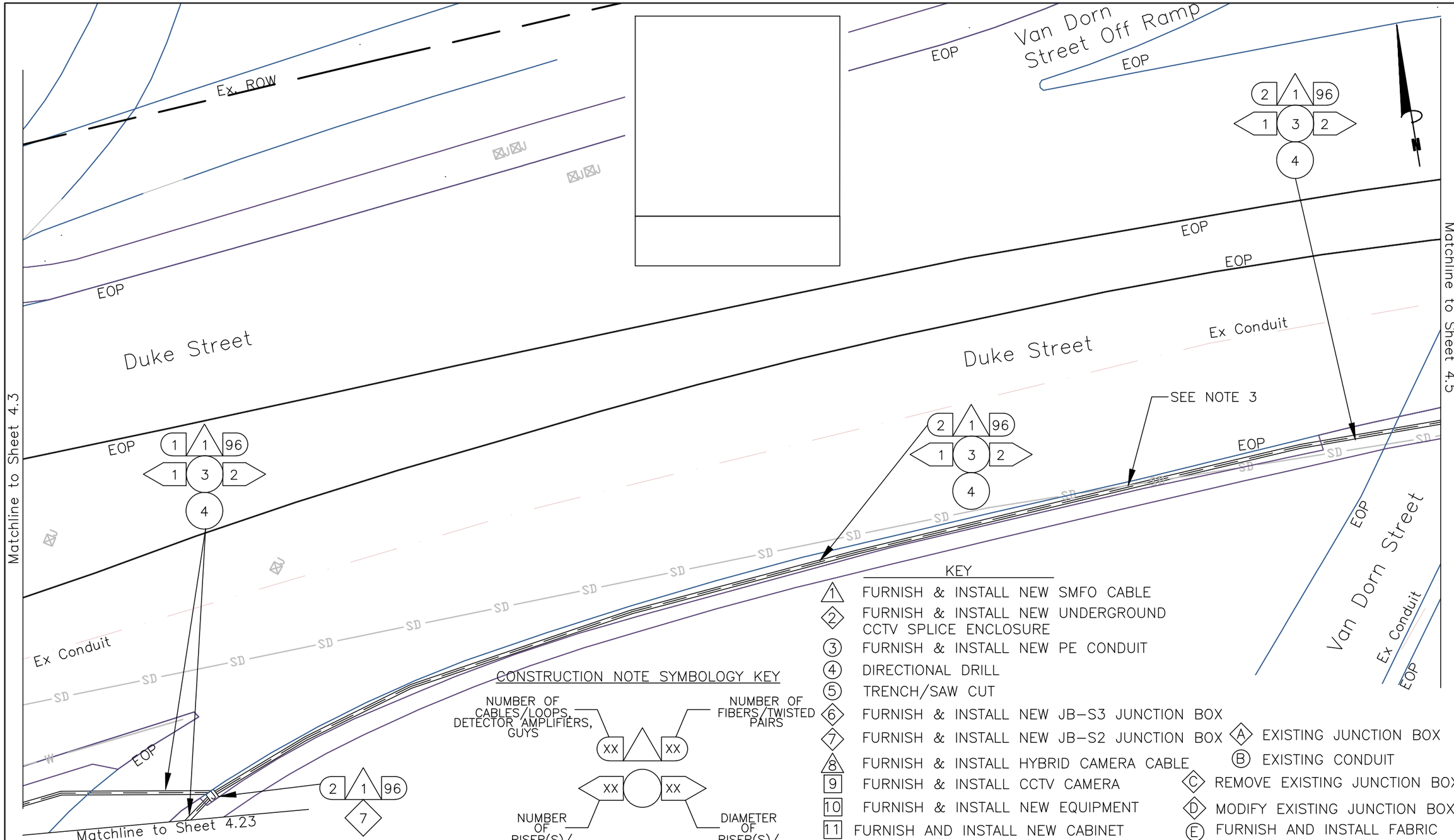
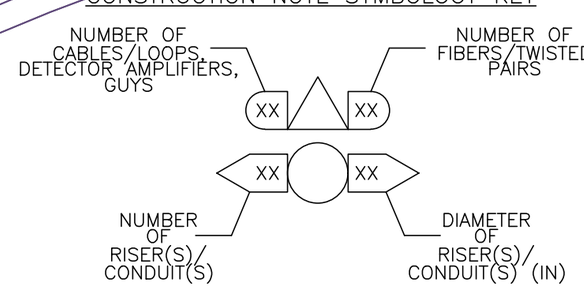
DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET
4–3



CONSTRUCTION NOTE SYMBOLOGY KEY



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DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET
4-4

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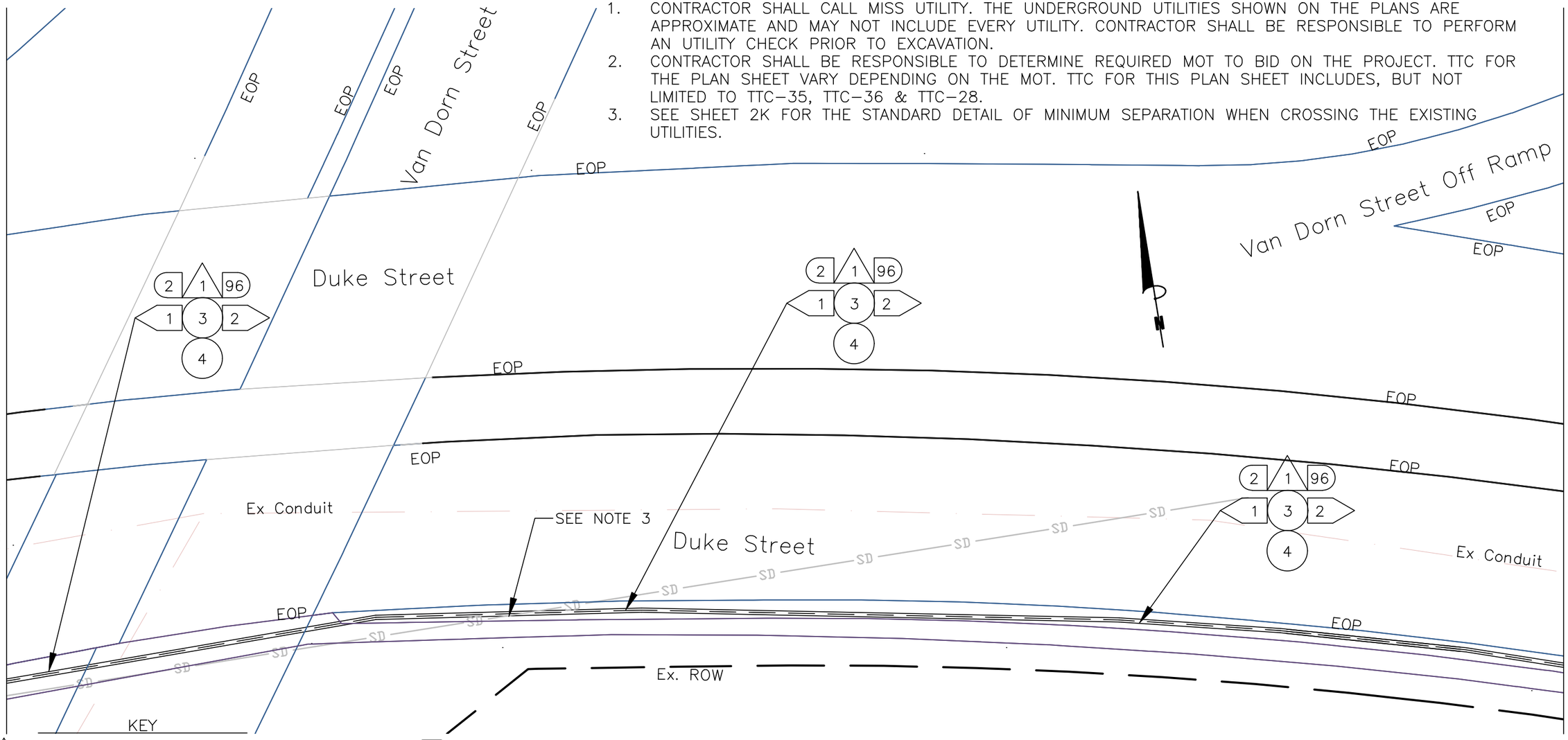

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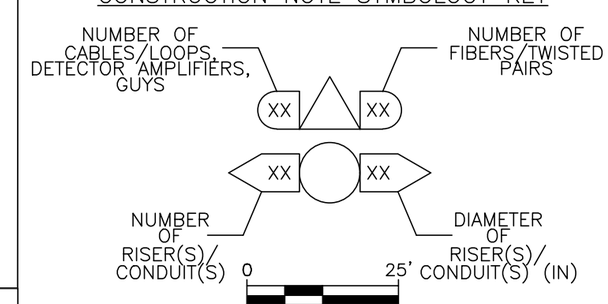
CONSTRUCTION NOTE SYMBOLOGY KEY



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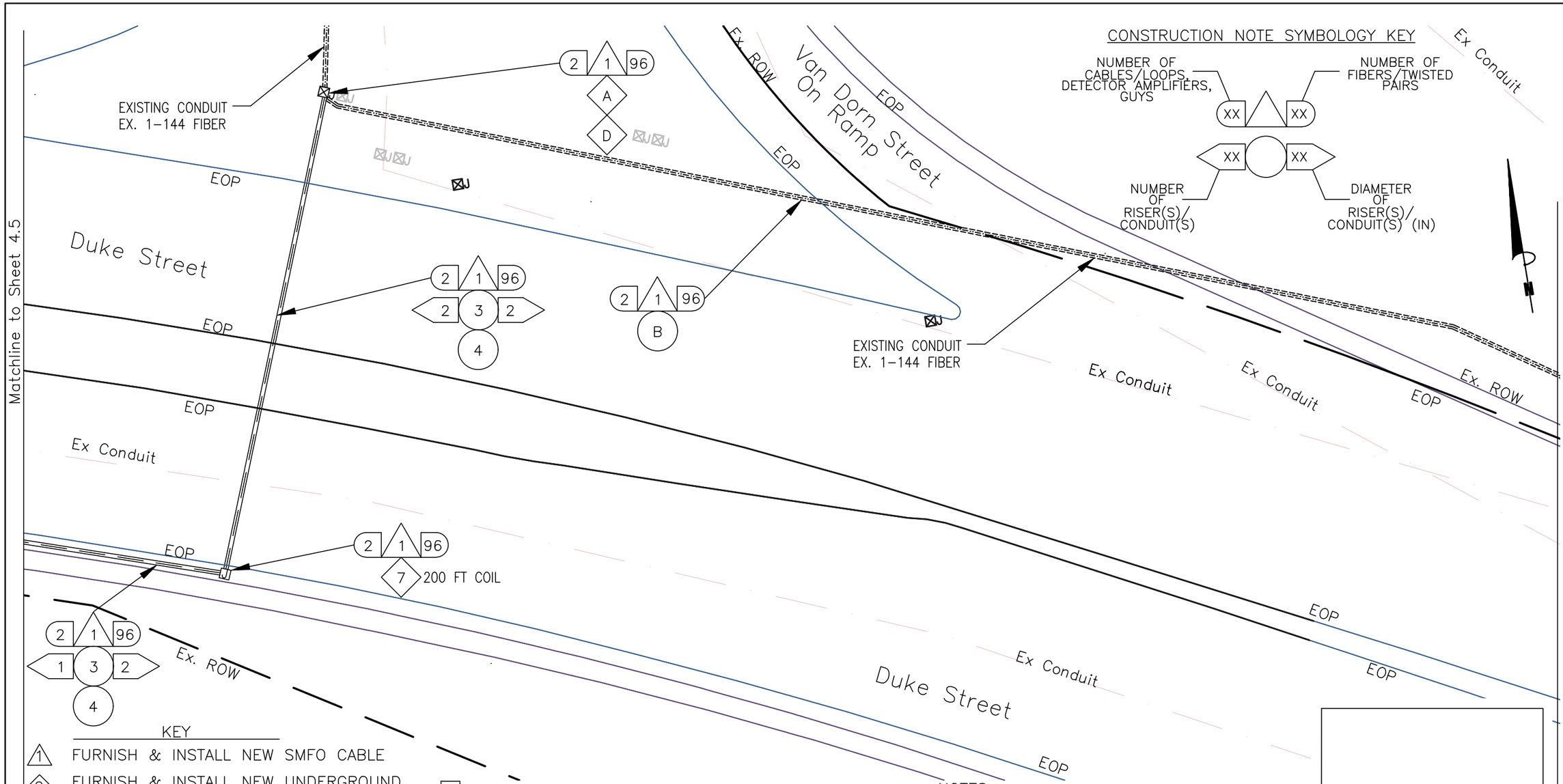
DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET 4-5



CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — NUMBER OF FIBERS/TWISTED PAIRS

NUMBER OF RISER(S)/ CONDUIT(S) — DIAMETER OF RISER(S)/ CONDUIT(S) (IN)

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET
4-6

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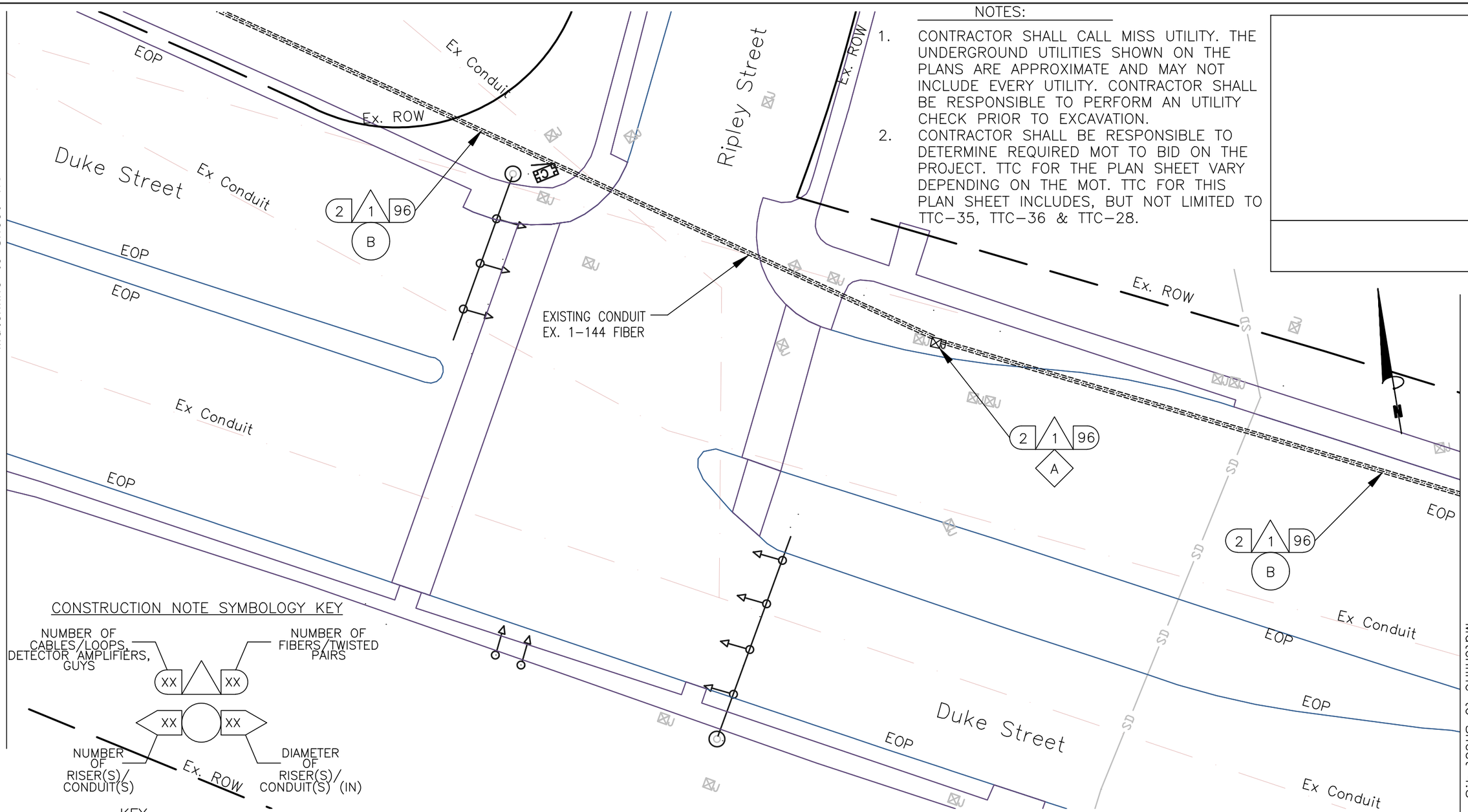

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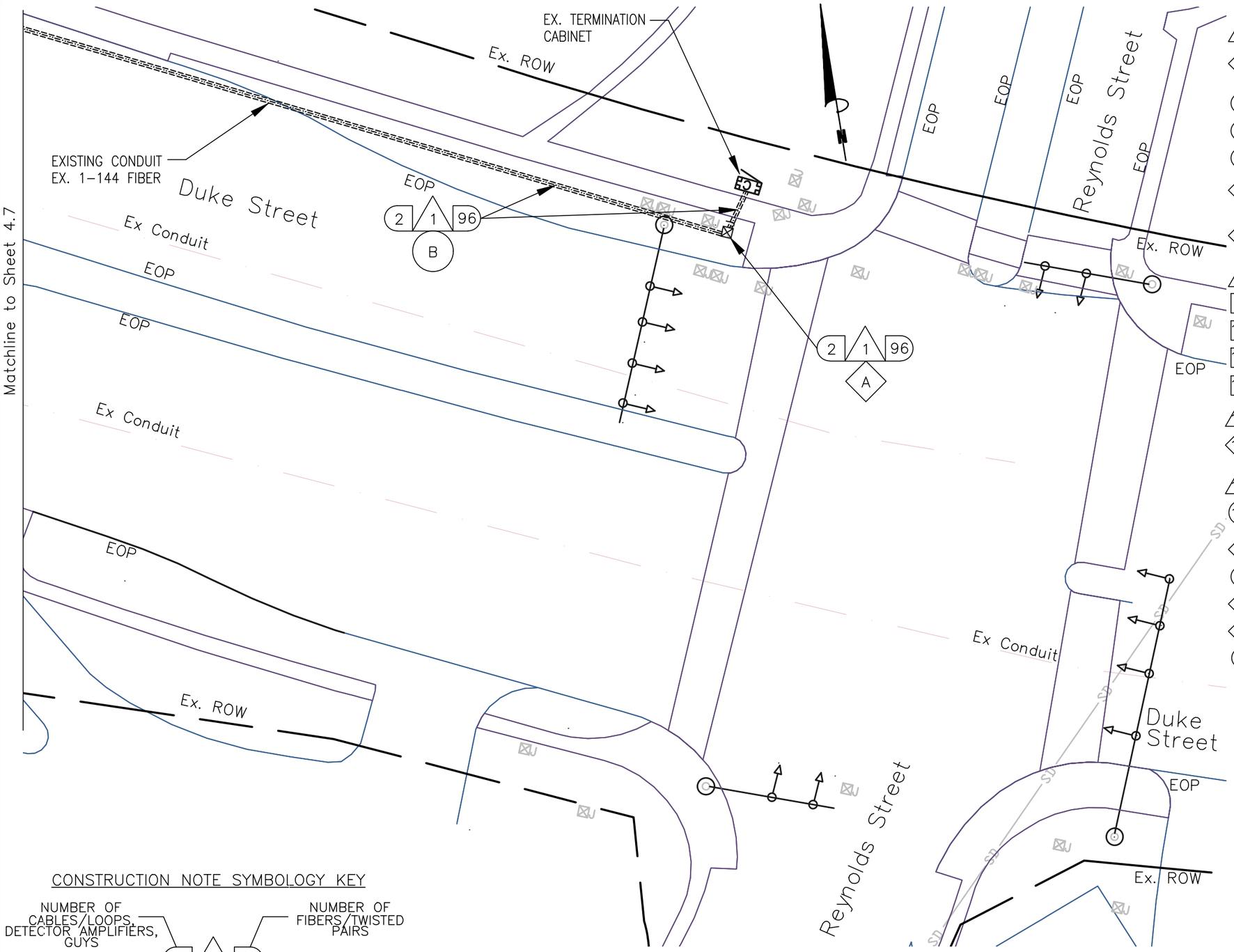
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE ST FROM S WALKER ST TO REYNOLDS ST INTERCONNECT PLANS

SHEET
4-7



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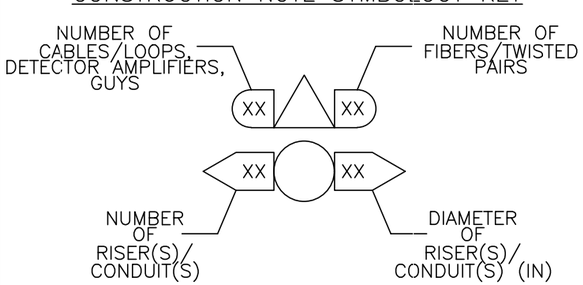

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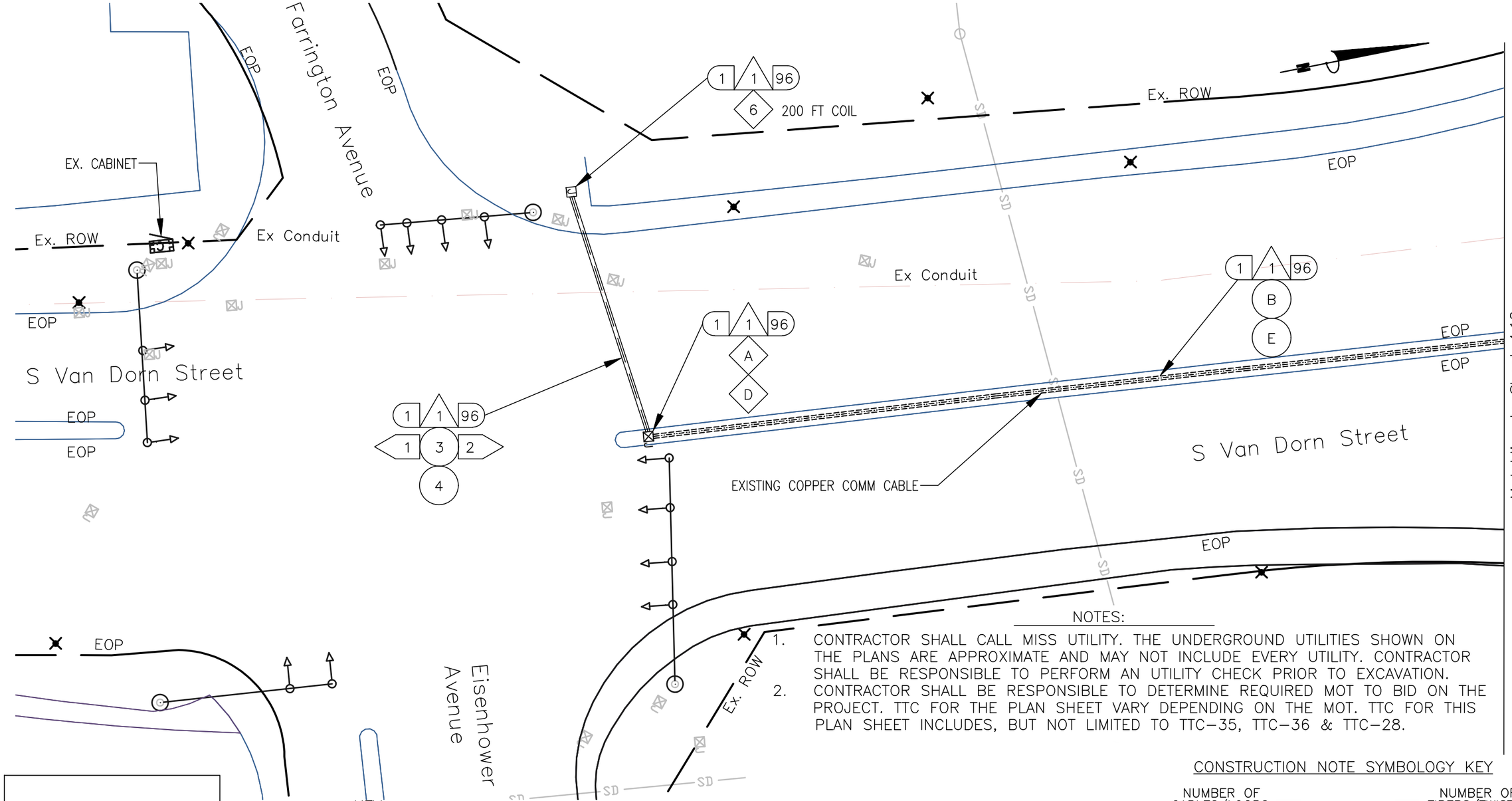
4-8



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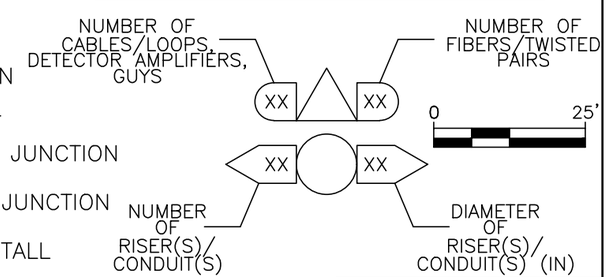

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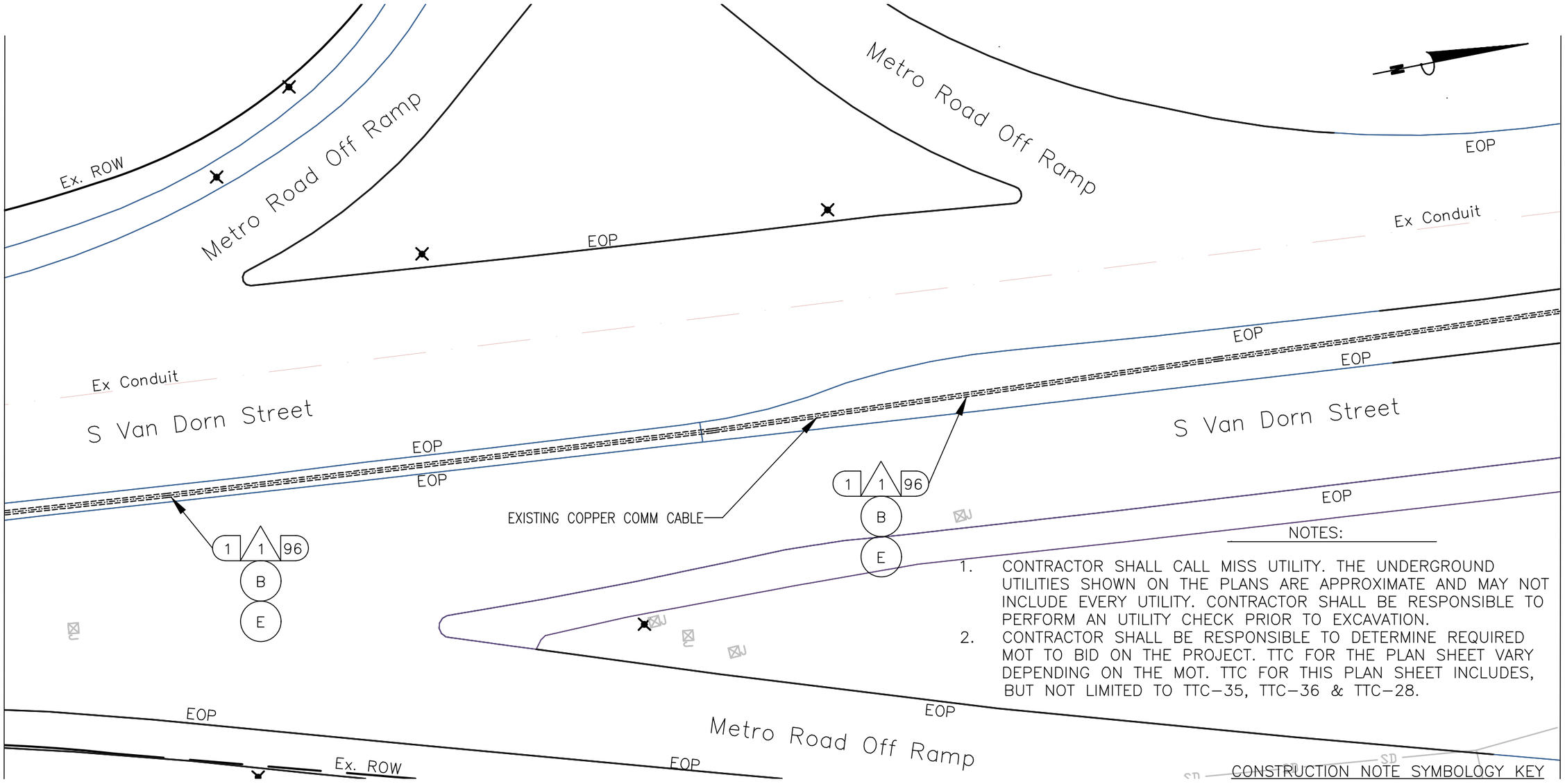
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-9



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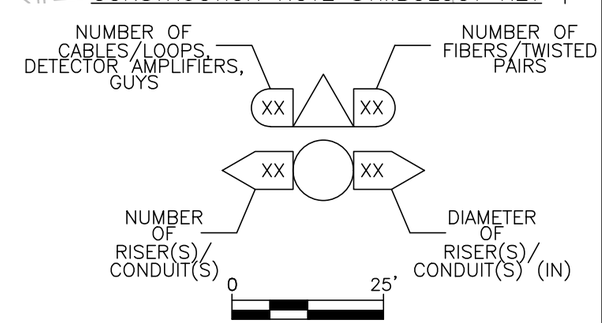

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DEPARTMENT OF PROJECT IMPLEMENTATION
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REVISIONS		
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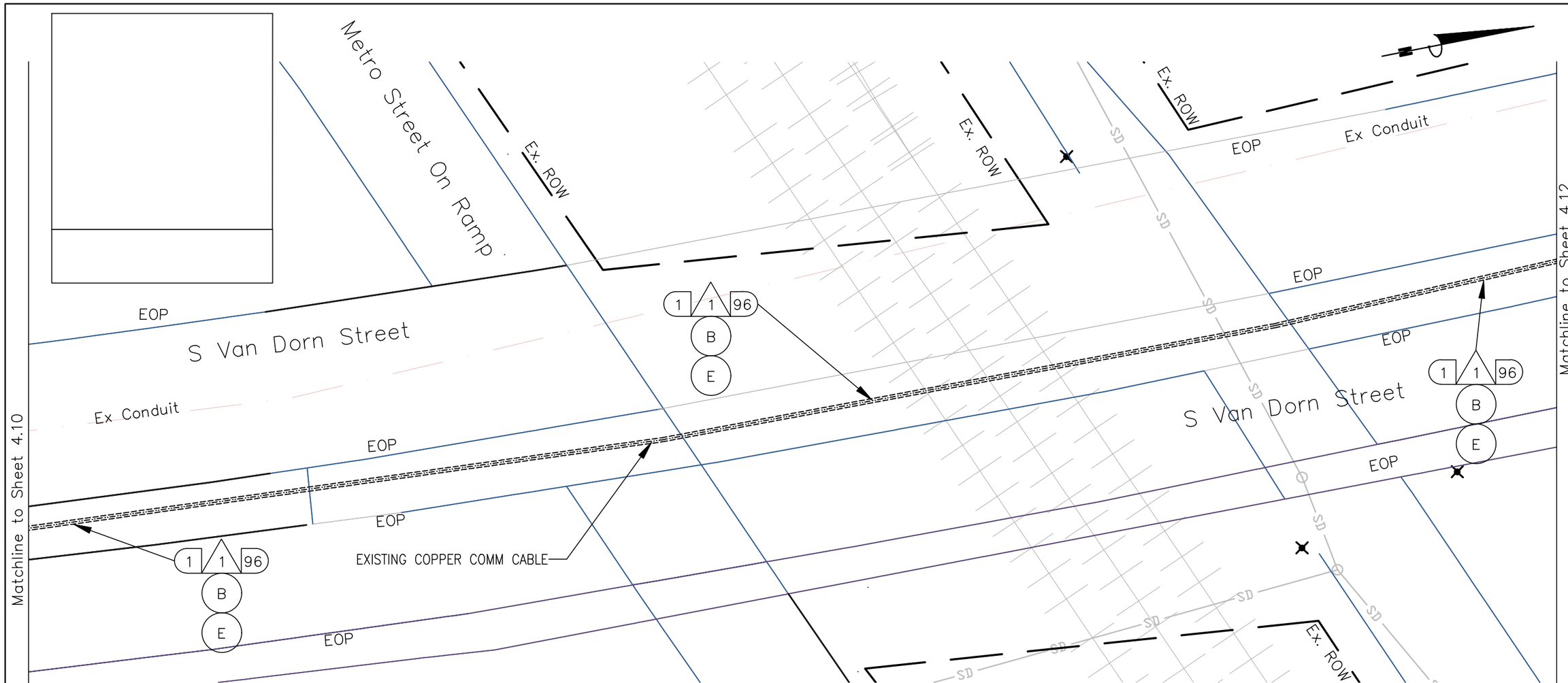
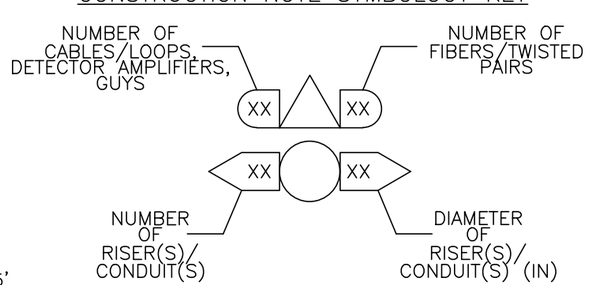
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4–10



CONSTRUCTION NOTE SYMBOLOGY KEY



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- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-11

CONSTRUCTION NOTE SYMBOLOGY KEY

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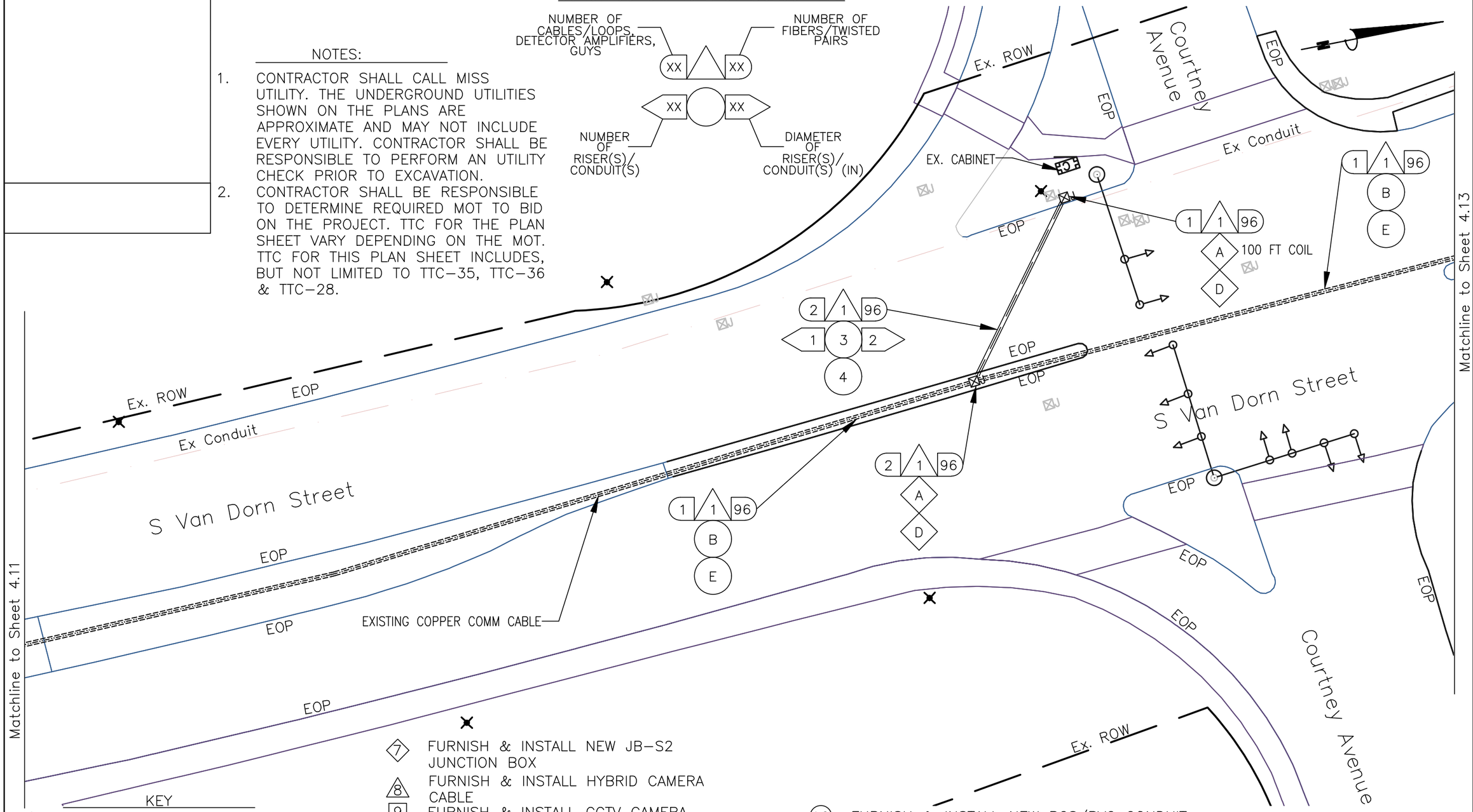

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-12

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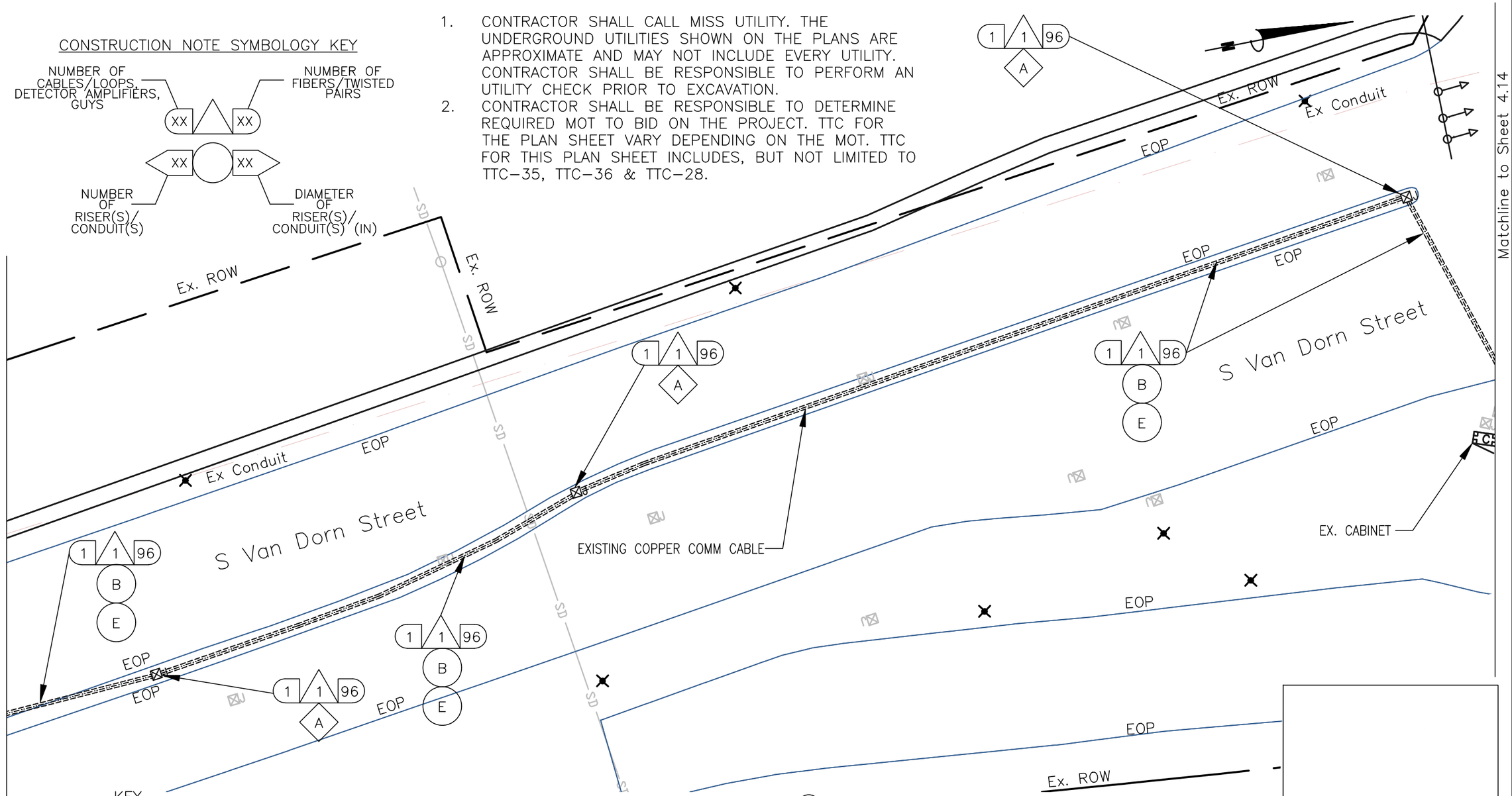

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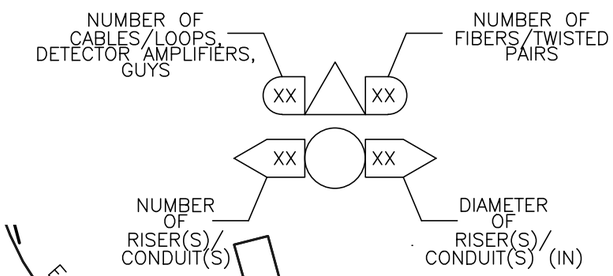
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-13

CONSTRUCTION NOTE SYMBOLOGY KEY



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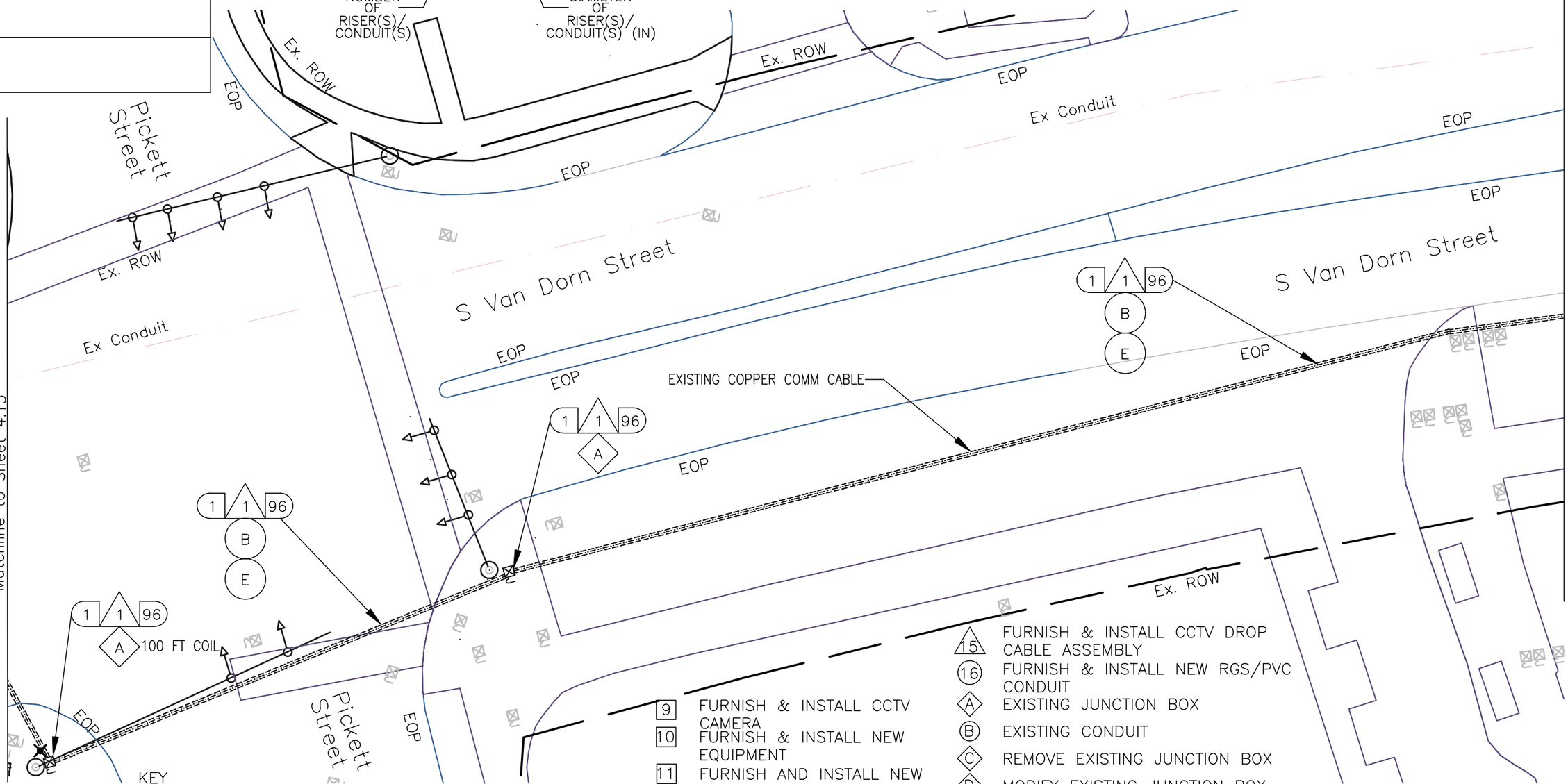

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- 11 FURNISH AND INSTALL NEW CABINET
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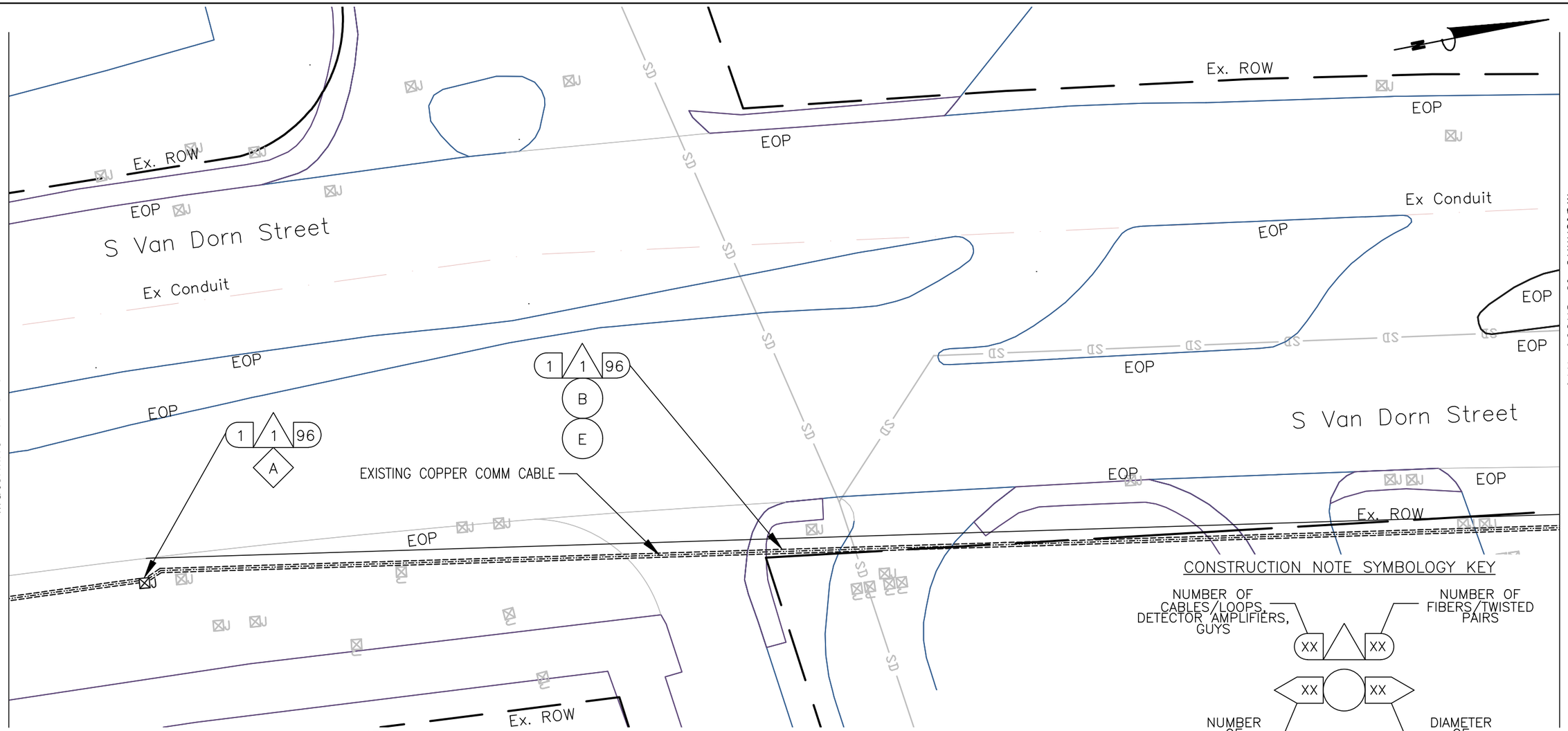
SHEET
4-14



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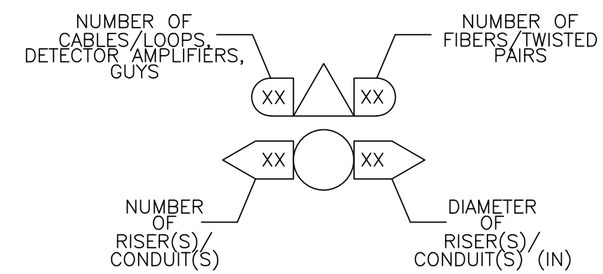

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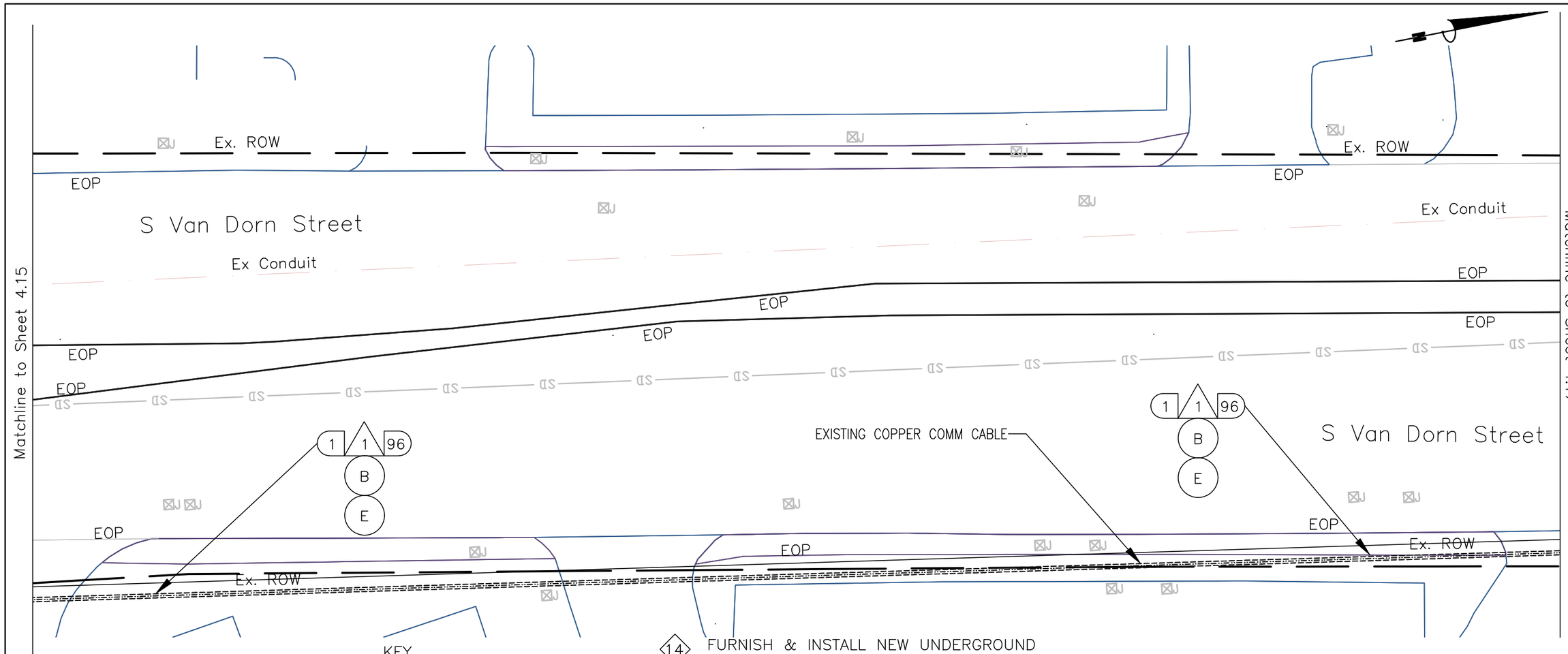
SHEET 4-15



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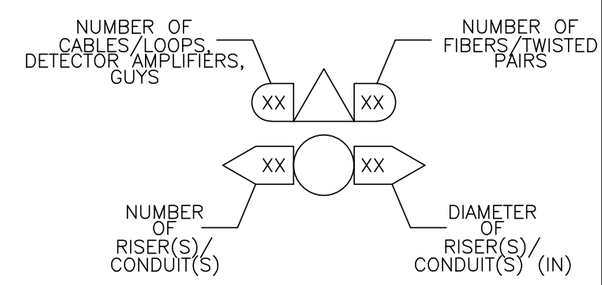

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SHEET
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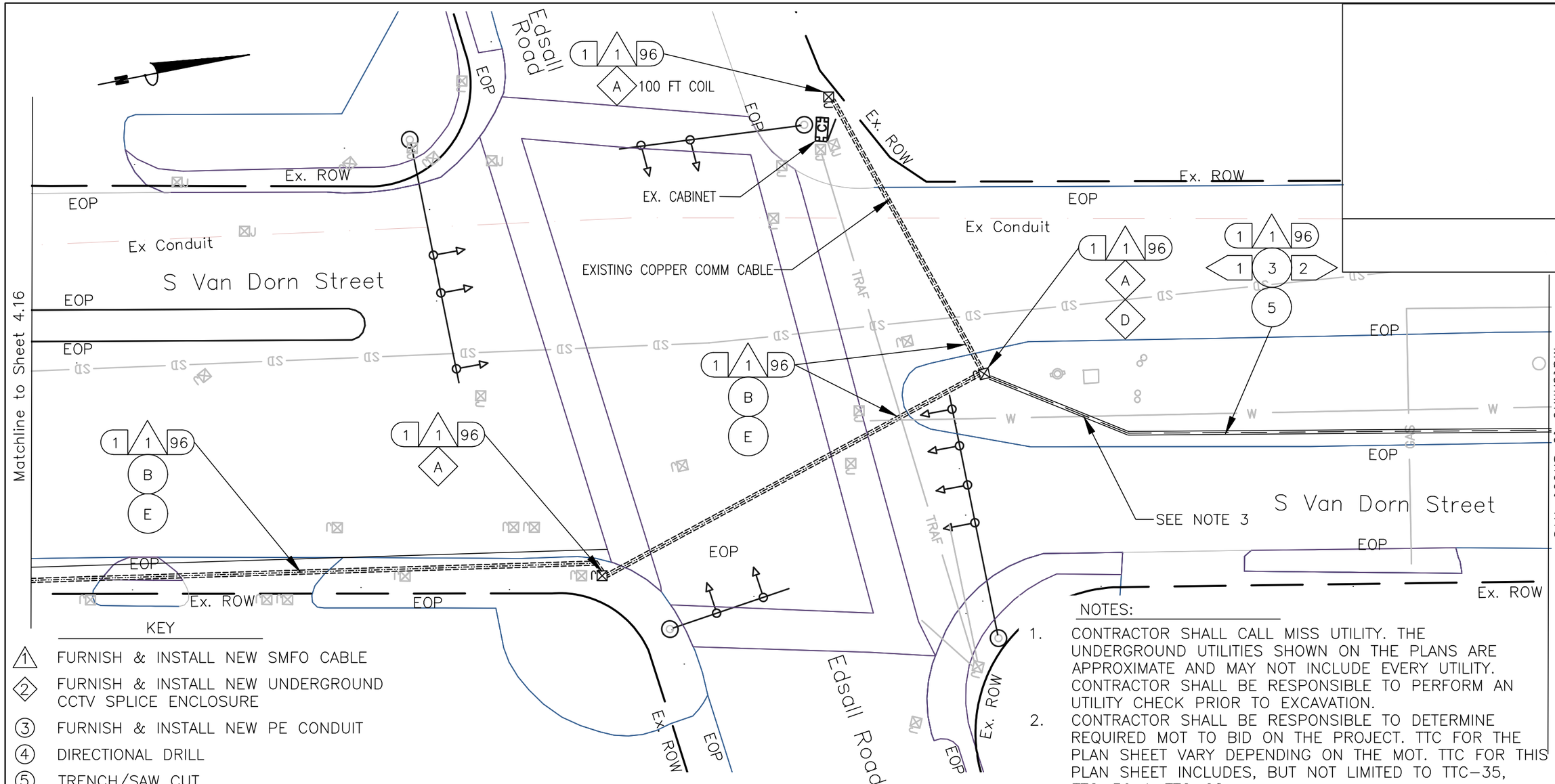

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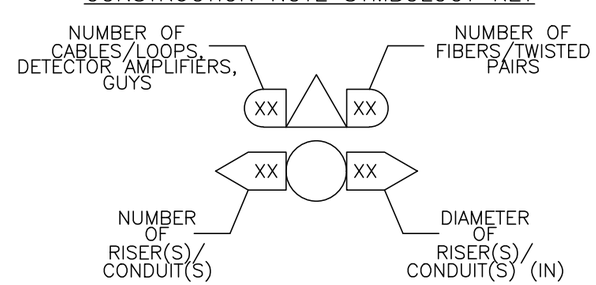

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CHECKED BY: RR DATE: 7/10/20
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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4–17

NOTES:

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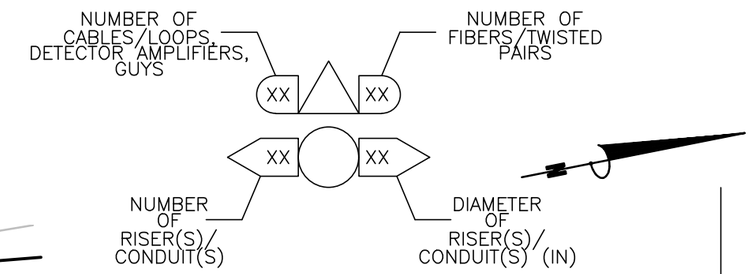
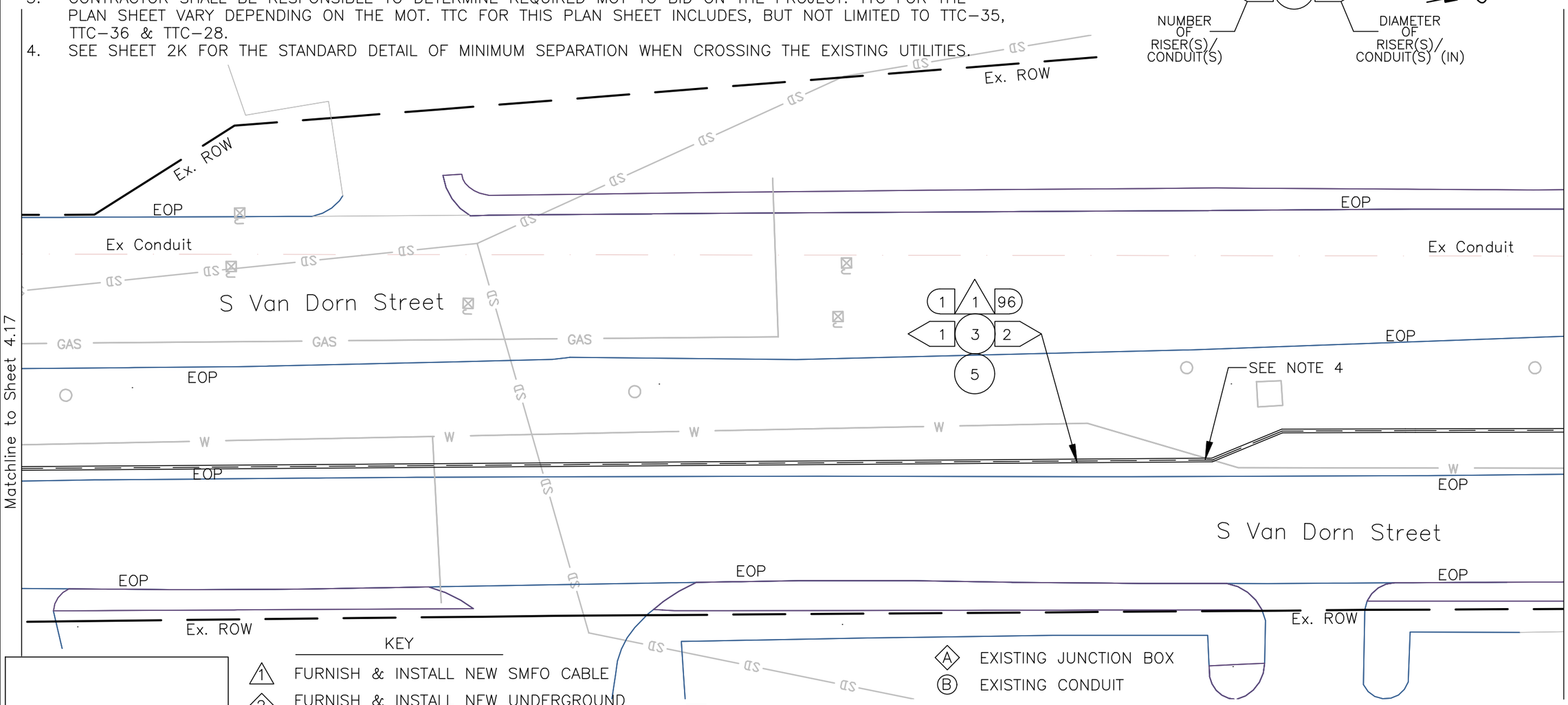
4. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

CONSTRUCTION NOTE SYMBOLOGY KEY





KEY

1. FURNISH & INSTALL NEW SMFO CABLE
2. FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
3. FURNISH & INSTALL NEW PE CONDUIT
4. DIRECTIONAL DRILL
5. TRENCH/SAW CUT
6. FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
7. FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
8. FURNISH & INSTALL HYBRID CAMERA CABLE
9. FURNISH & INSTALL CCTV CAMERA
10. FURNISH & INSTALL NEW EQUIPMENT
11. FURNISH AND INSTALL NEW CABINET
12. CORE DRILL EXISTING CABINET FOUNDATION
13. FURNISH & INSTALL PON DROP CABLE
14. FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

A. EXISTING JUNCTION BOX
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
E. FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-18

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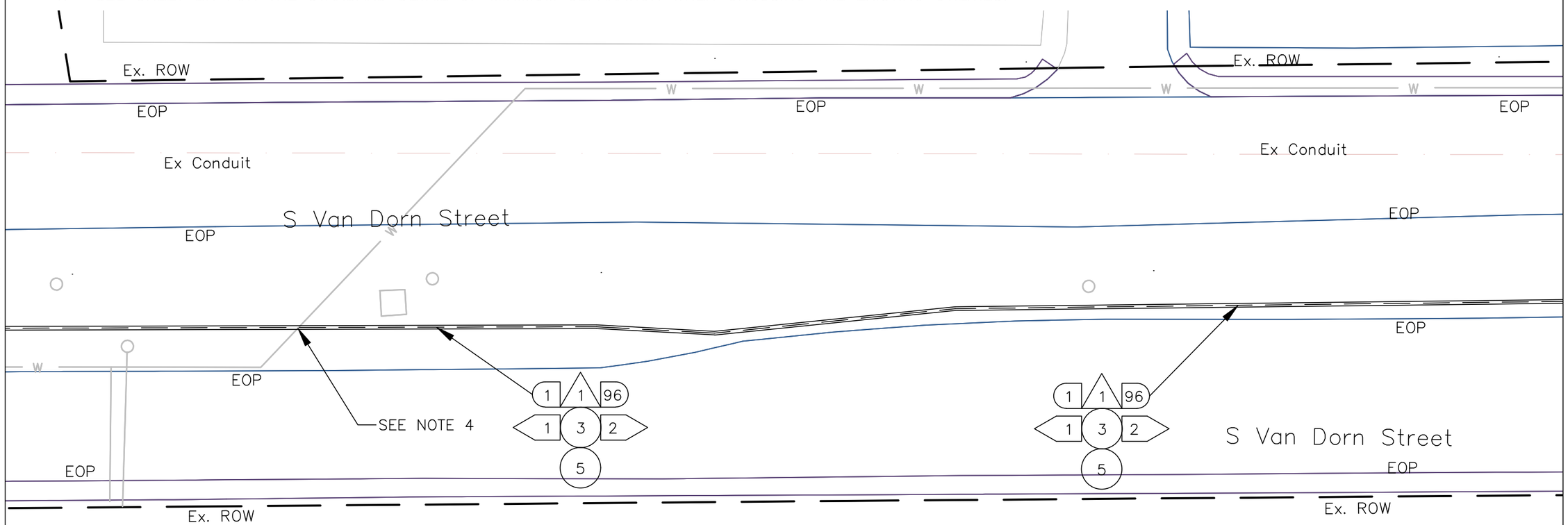

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- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
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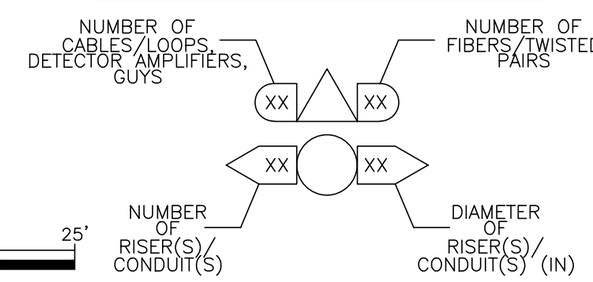
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

0 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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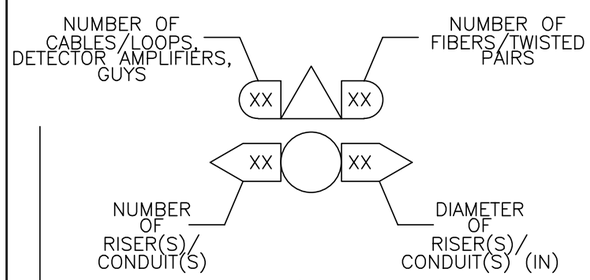
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-19

CONSTRUCTION NOTE SYMBOLOGY KEY



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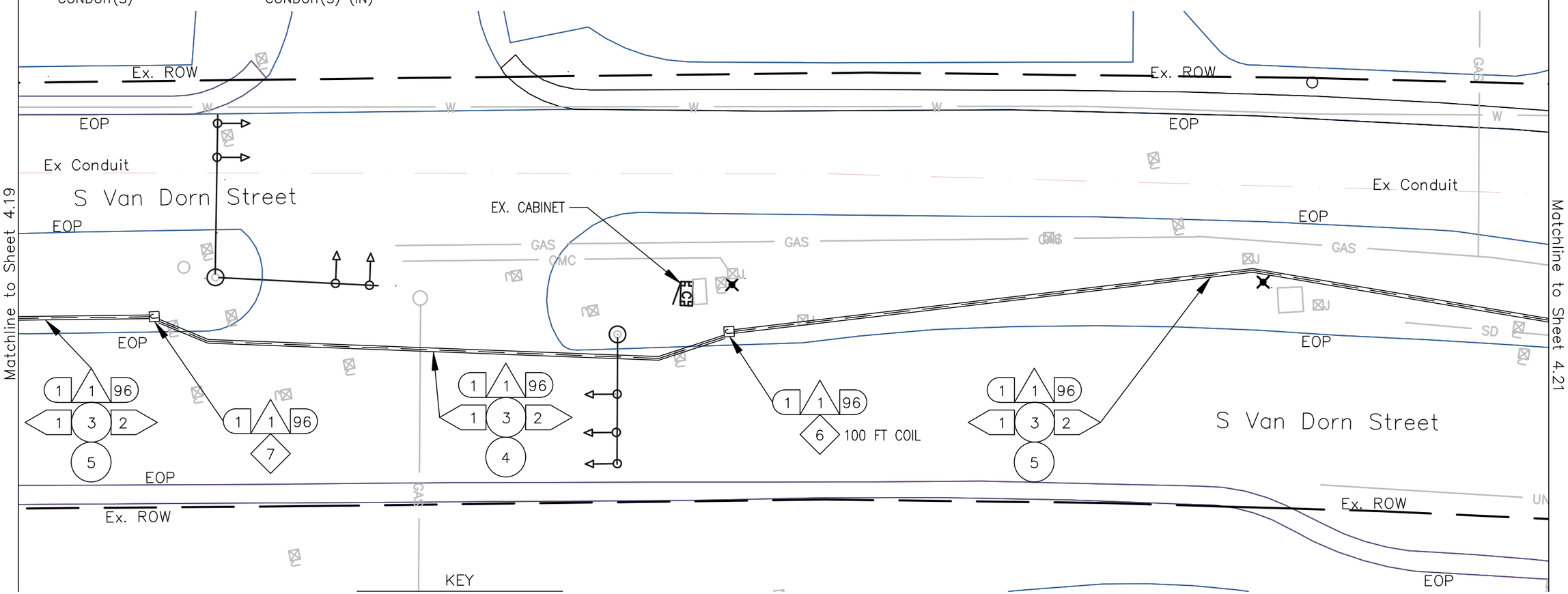

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- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
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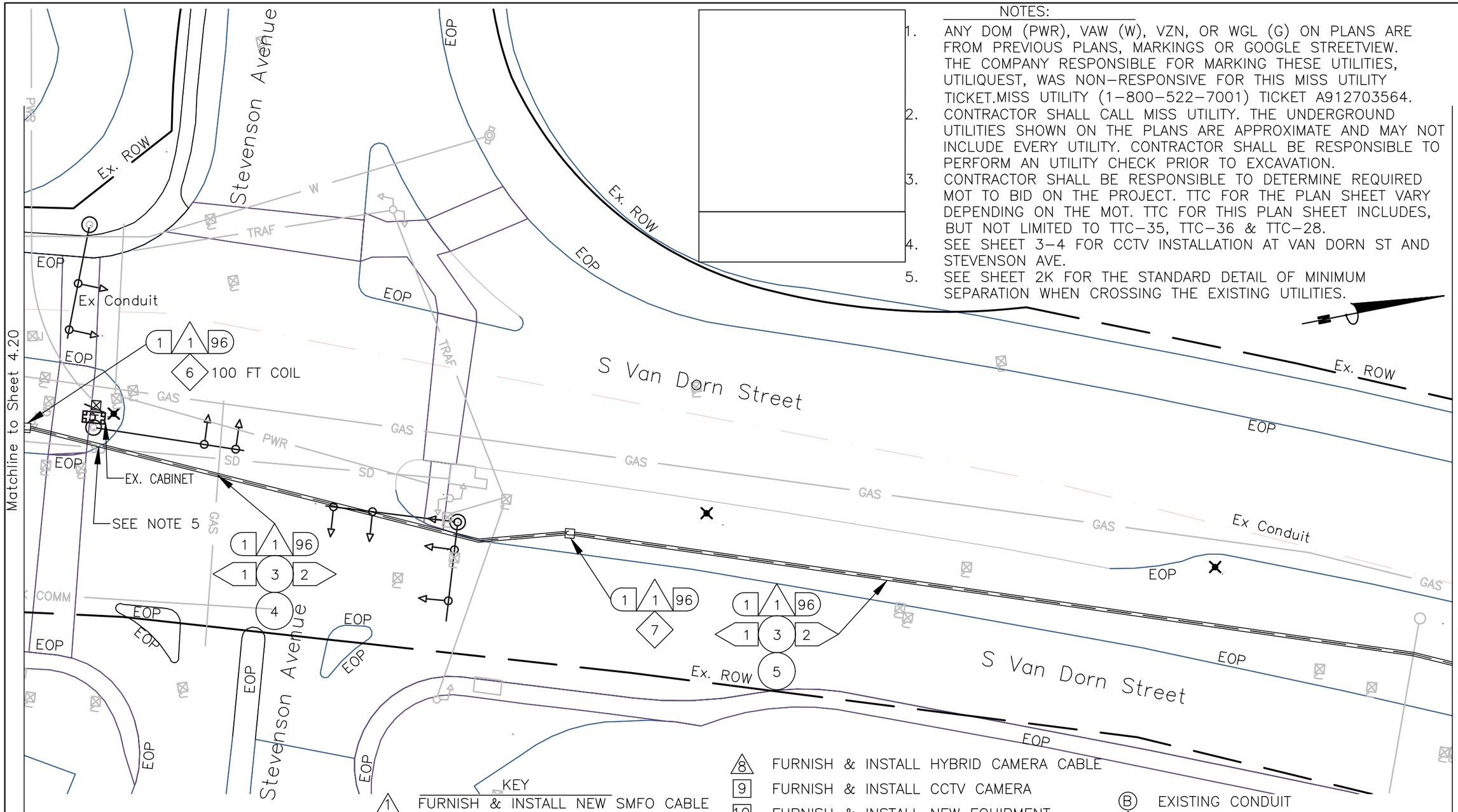
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-20



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4. SEE SHEET 3-4 FOR CCTV INSTALLATION AT VAN DORN ST AND STEVENSON AVE.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — XX — NUMBER OF FIBERS/TWISTED PAIRS

XX — XX

NUMBER OF RISER(S)/CONDUIT(S) — DIAMETER OF RISER(S)/CONDUIT(S) (IN)

KEY

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-21

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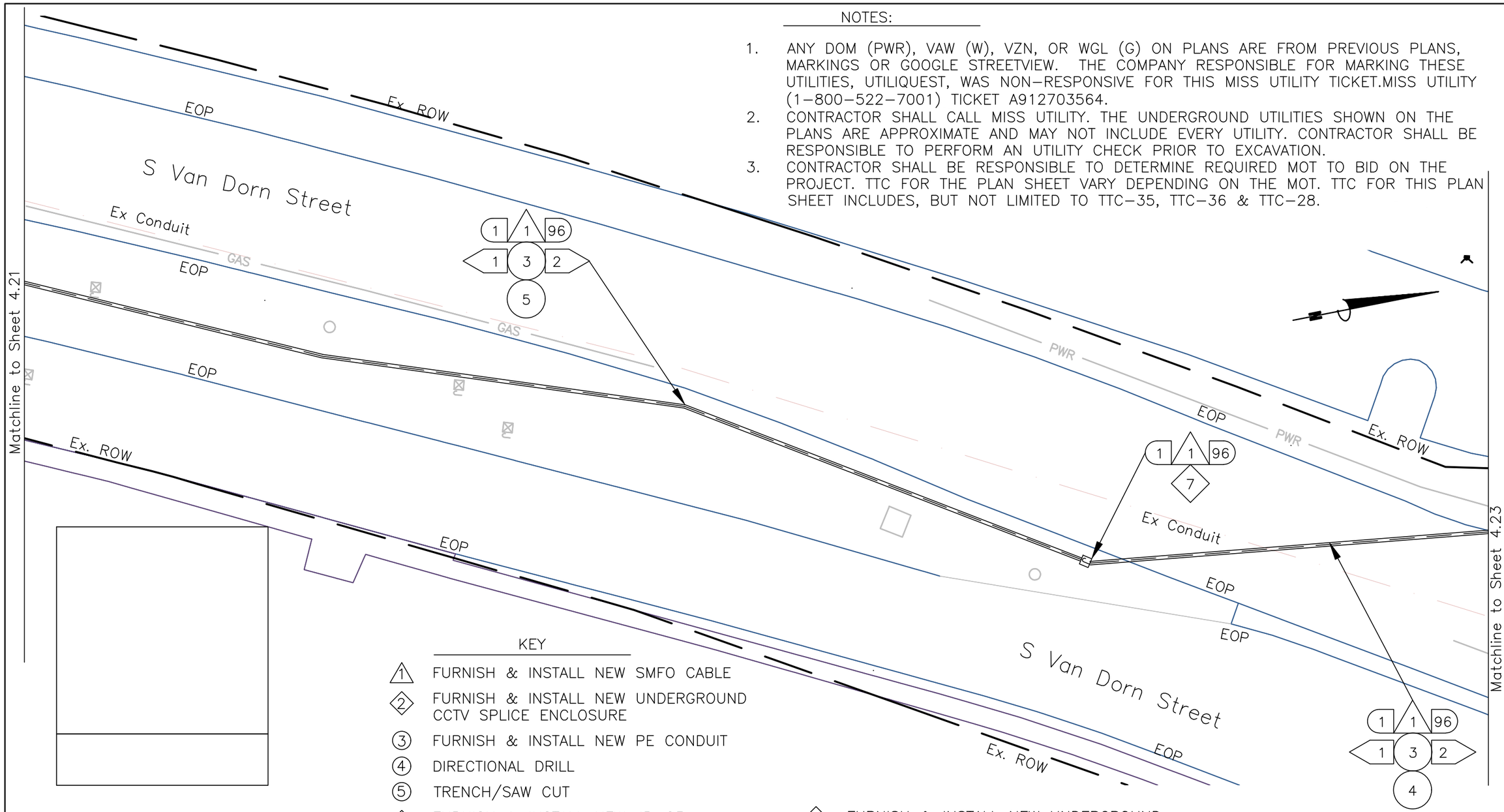

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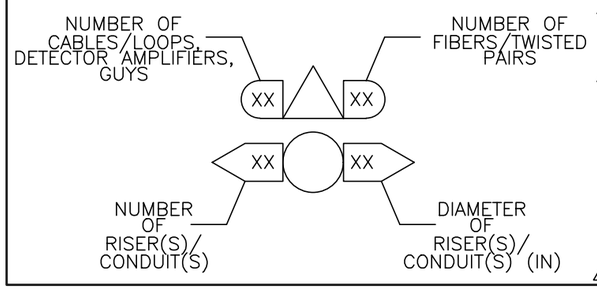
CONSTRUCTION NOTE SYMBOLOGY KEY



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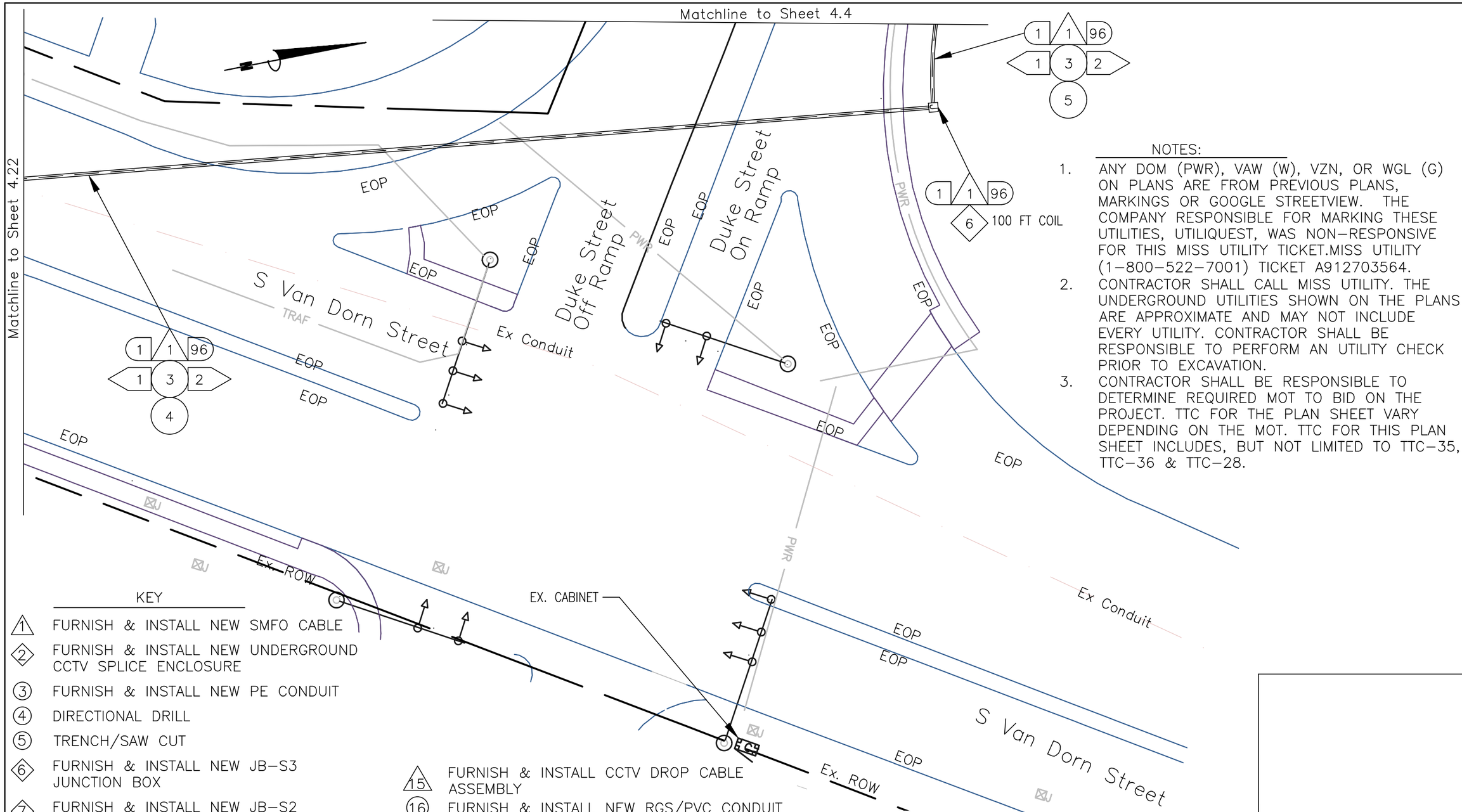
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-22



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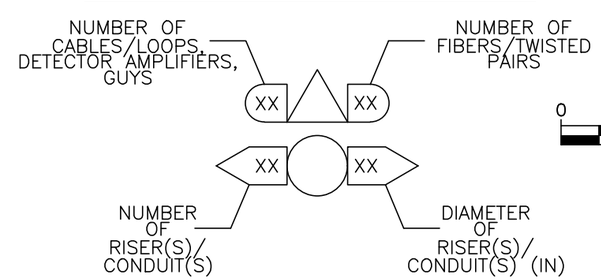

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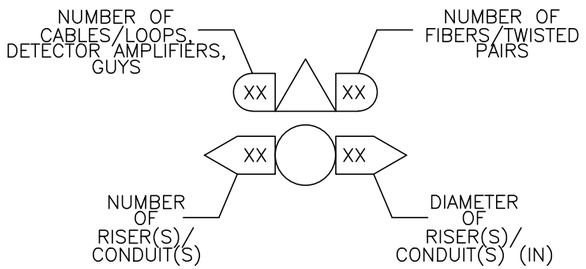
S VAN DORN ST FROM EISENHOWER AVE TO DUKE ST INTERCONNECT PLANS

SHEET
4-23

CONSTRUCTION NOTE SYMBOLOGY KEY



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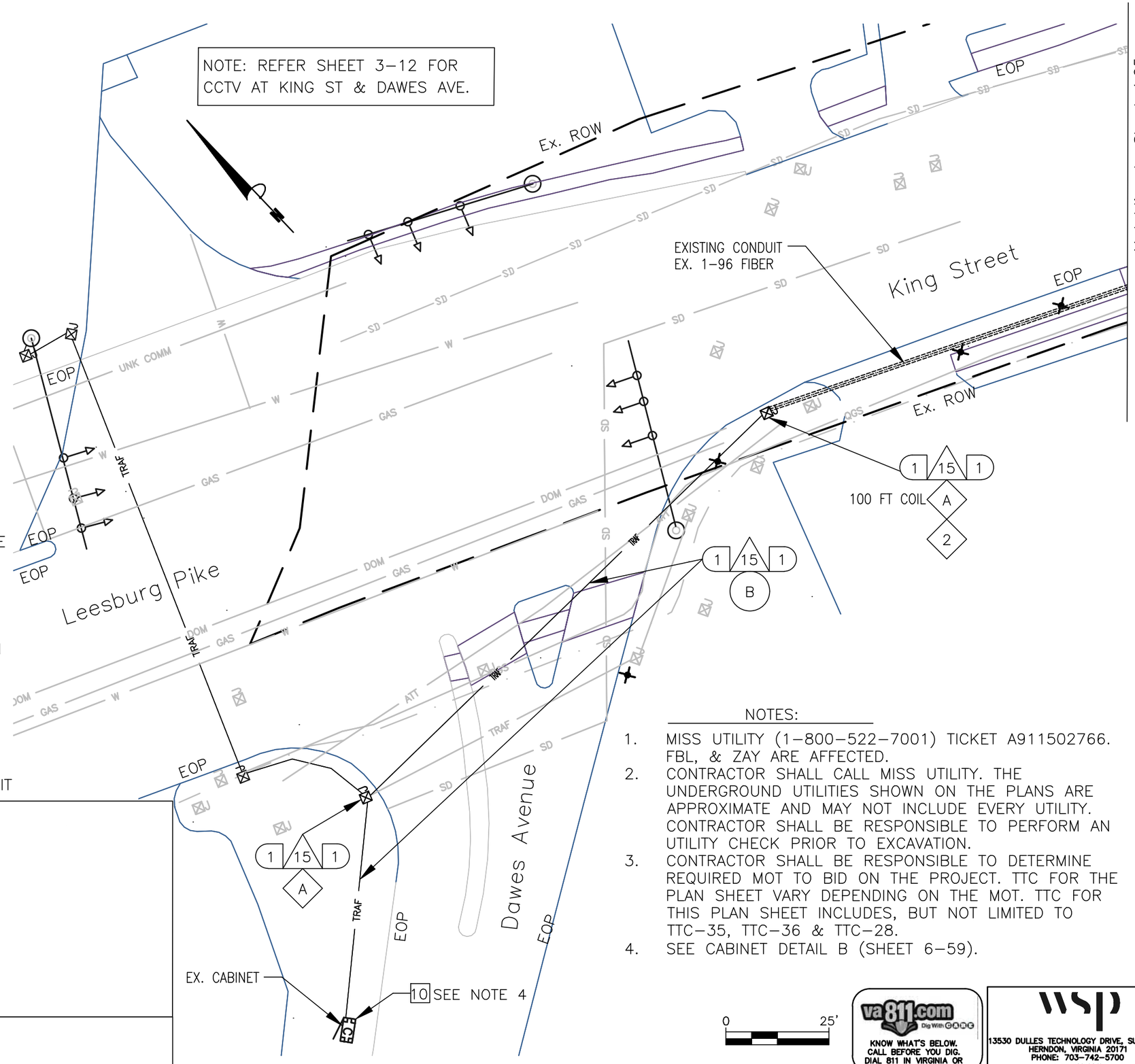
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTE: REFER SHEET 3-12 FOR CCTV AT KING ST & DAWES AVE.



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4. SEE CABINET DETAIL B (SHEET 6-59).

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST
FROM DAWES AVE
TO N BEAUREGARD ST
INTERCONNECT PLANS

SHEET
4-24

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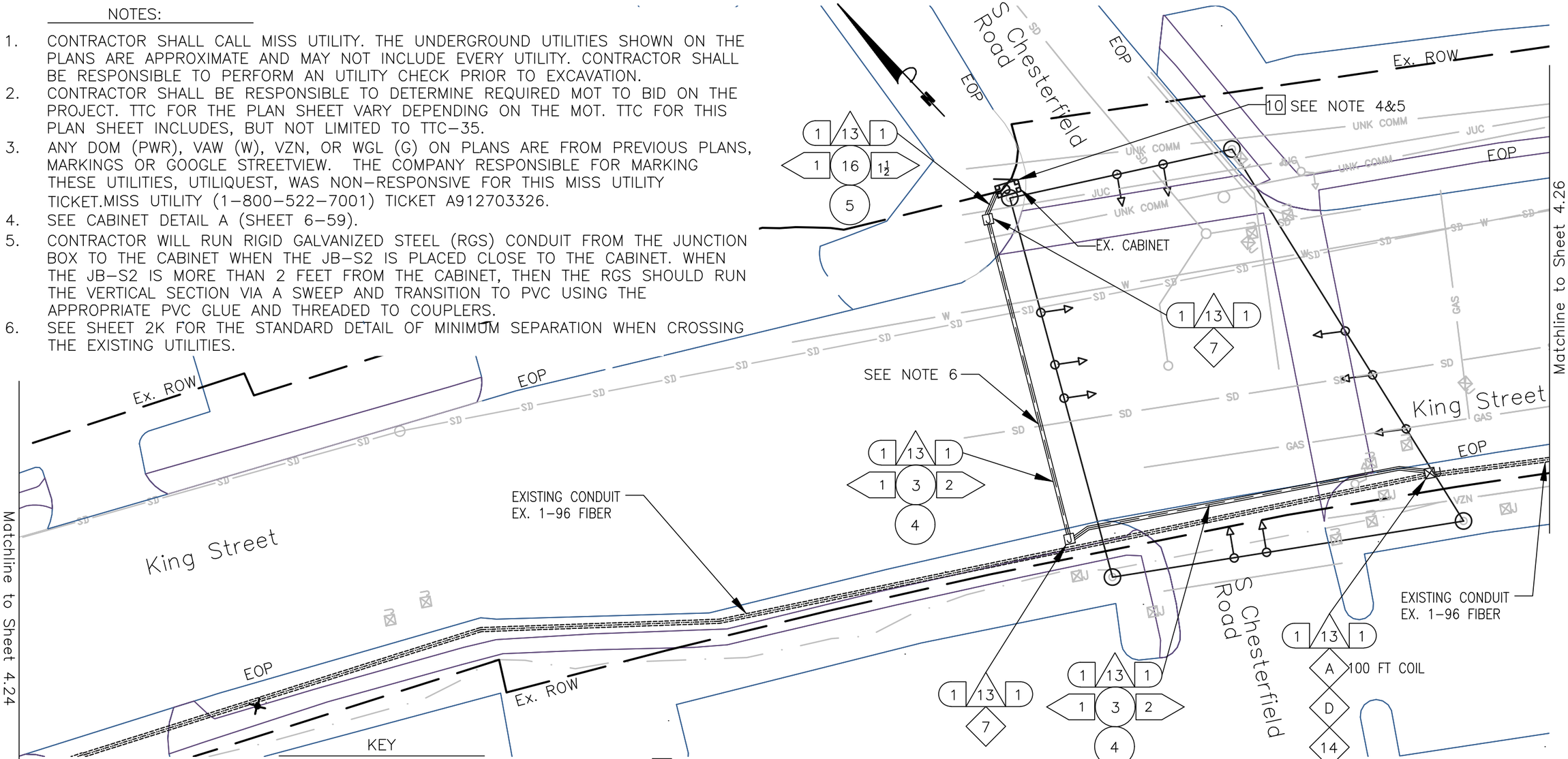
3. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON-RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1-800-522-7001) TICKET A912703326.
4. SEE CABINET DETAIL A (SHEET 6-59).
5. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB-S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB-S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



KEY

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- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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- 11 FURNISH AND INSTALL NEW CABINET
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- 13 FURNISH & INSTALL PON DROP CABLE
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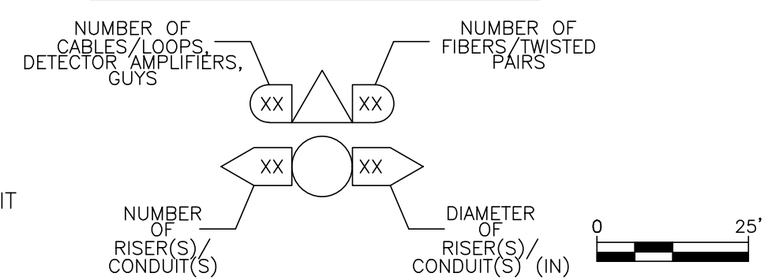
CONSTRUCTION NOTE SYMBOLOGY KEY



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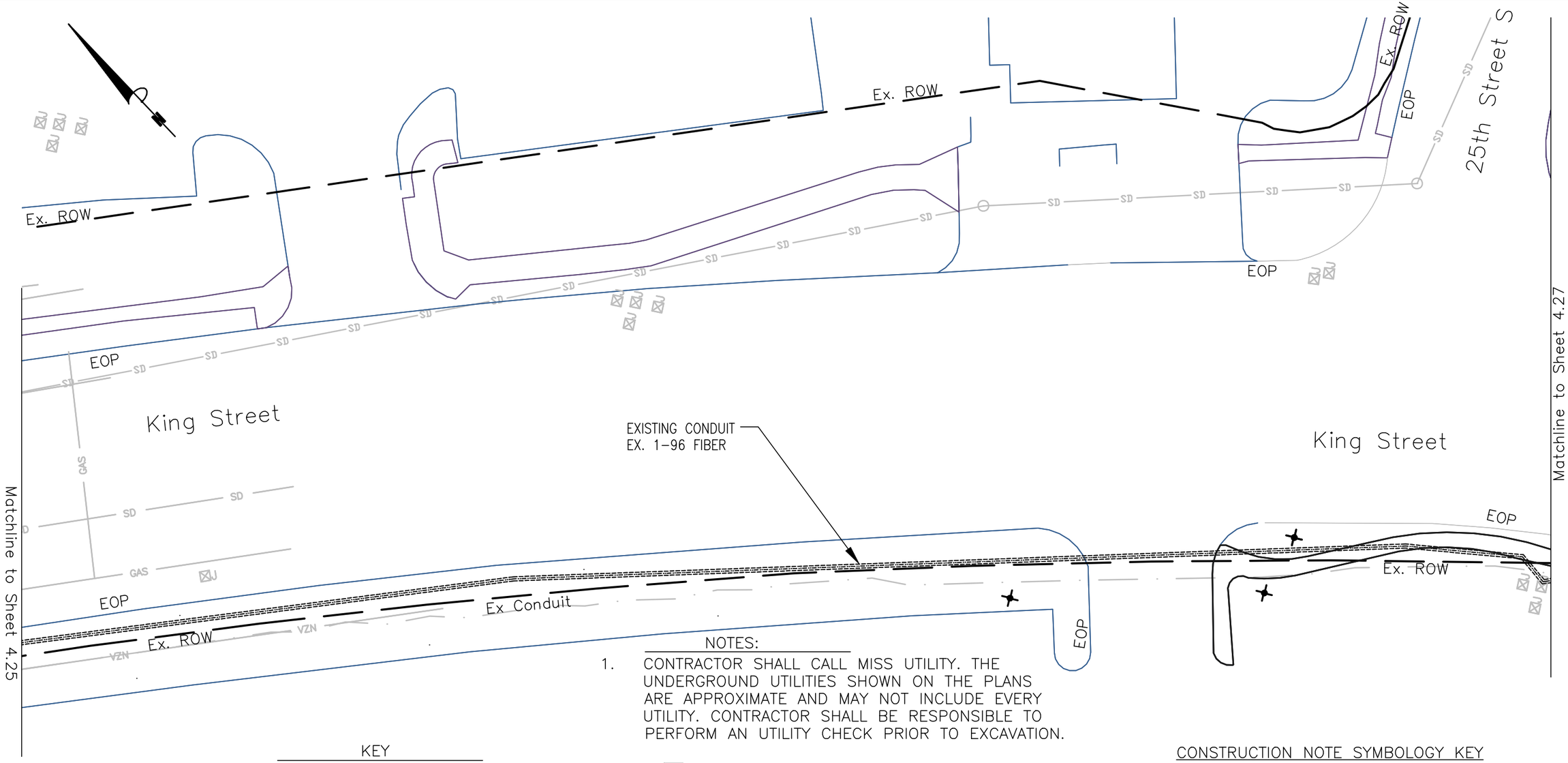
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST
FROM DAWES AVE
TO N BEAUREGARD ST
INTERCONNECT PLANS

SHEET
4-25



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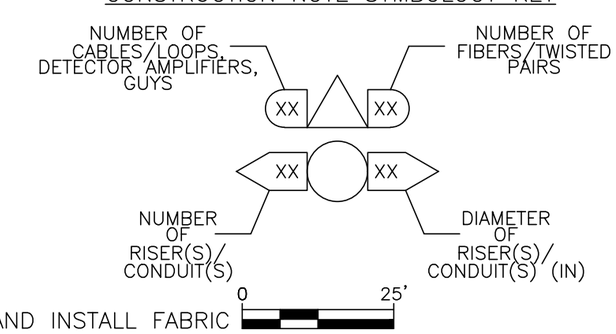

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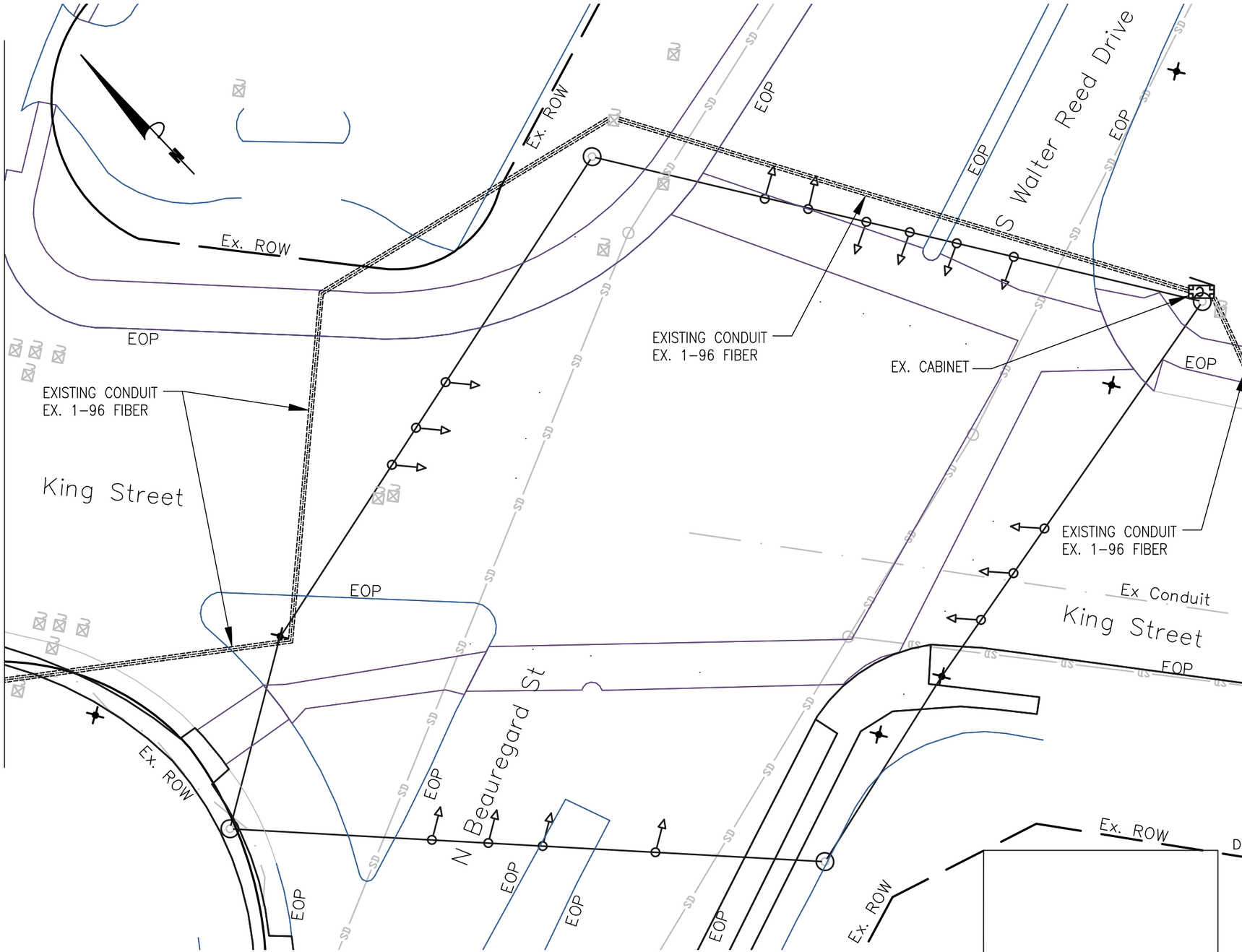
KING ST
FROM DAWES AVE
TO N BEAUREGARD ST
INTERCONNECT PLANS

SHEET
4-26



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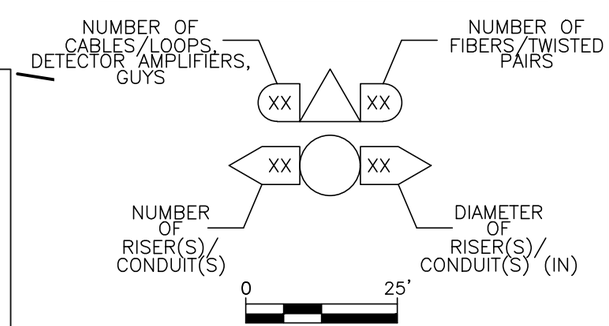

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KING ST
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SHEET
4-27

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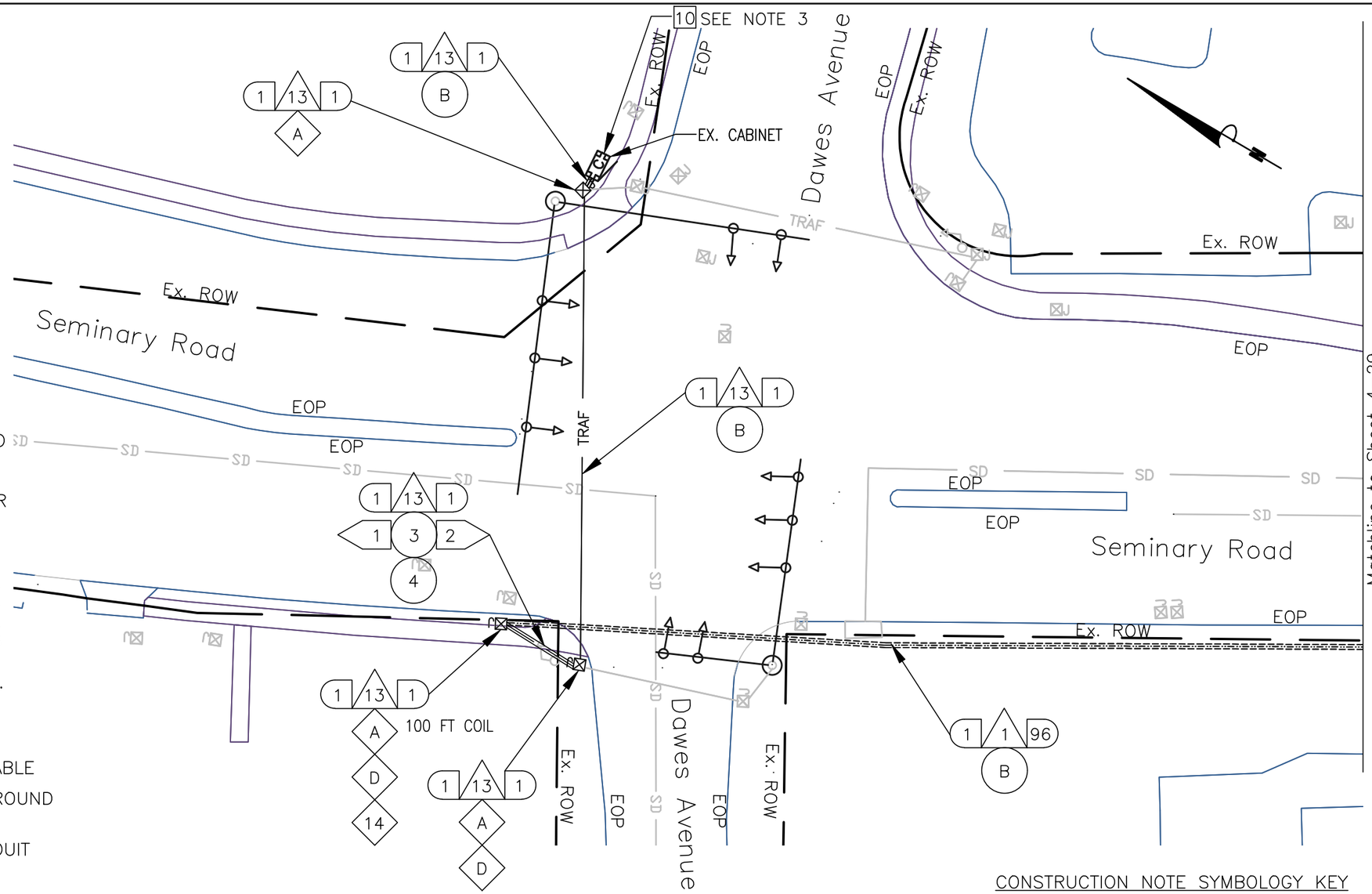

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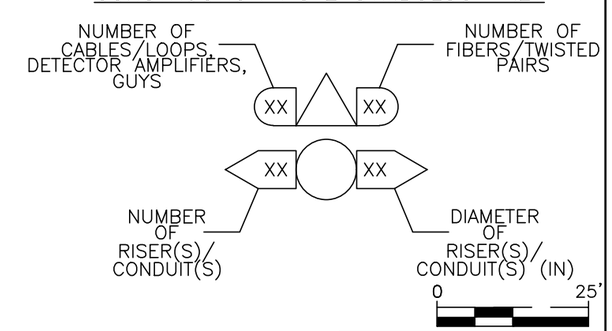

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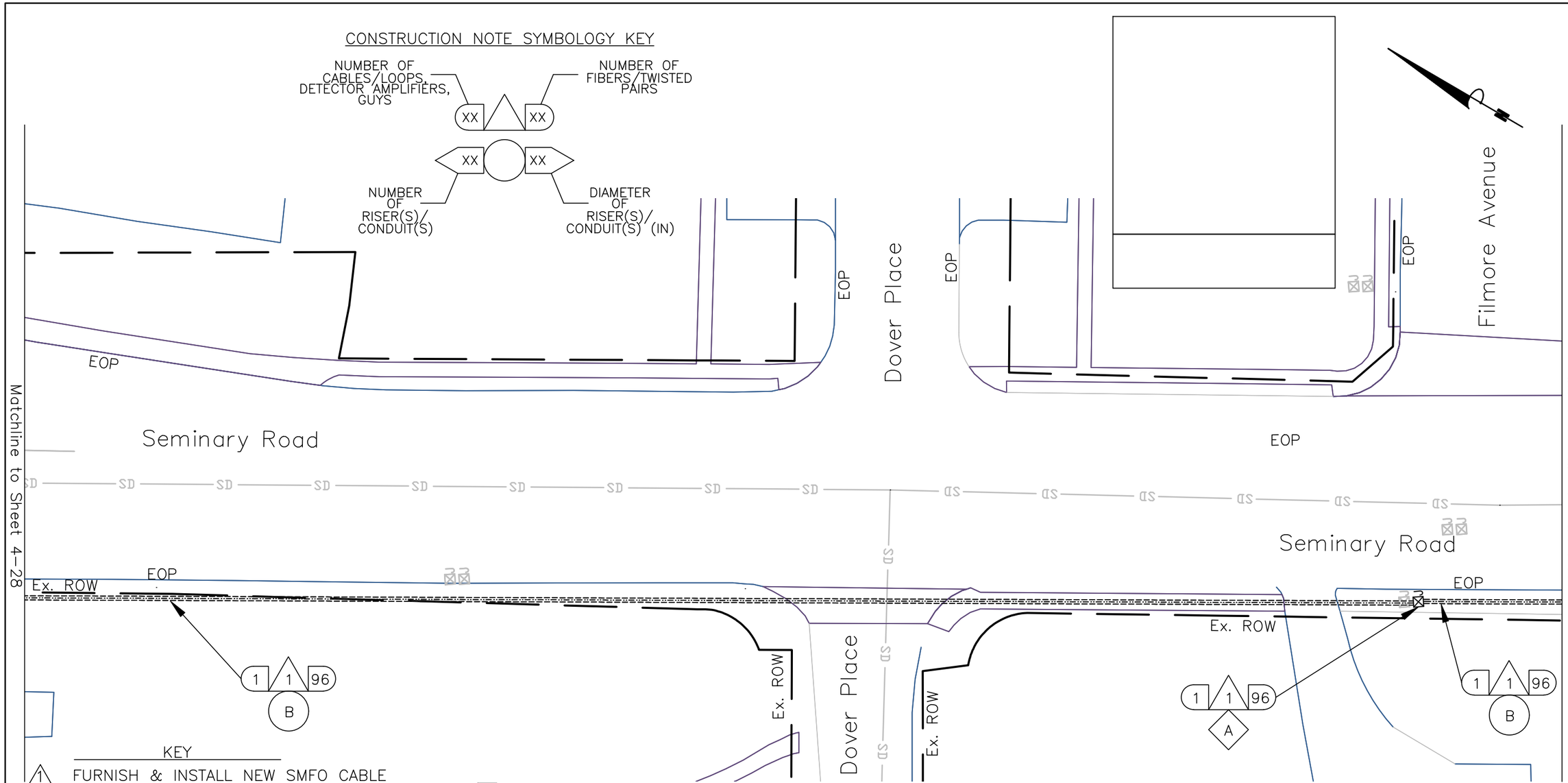
SHEET
4-28



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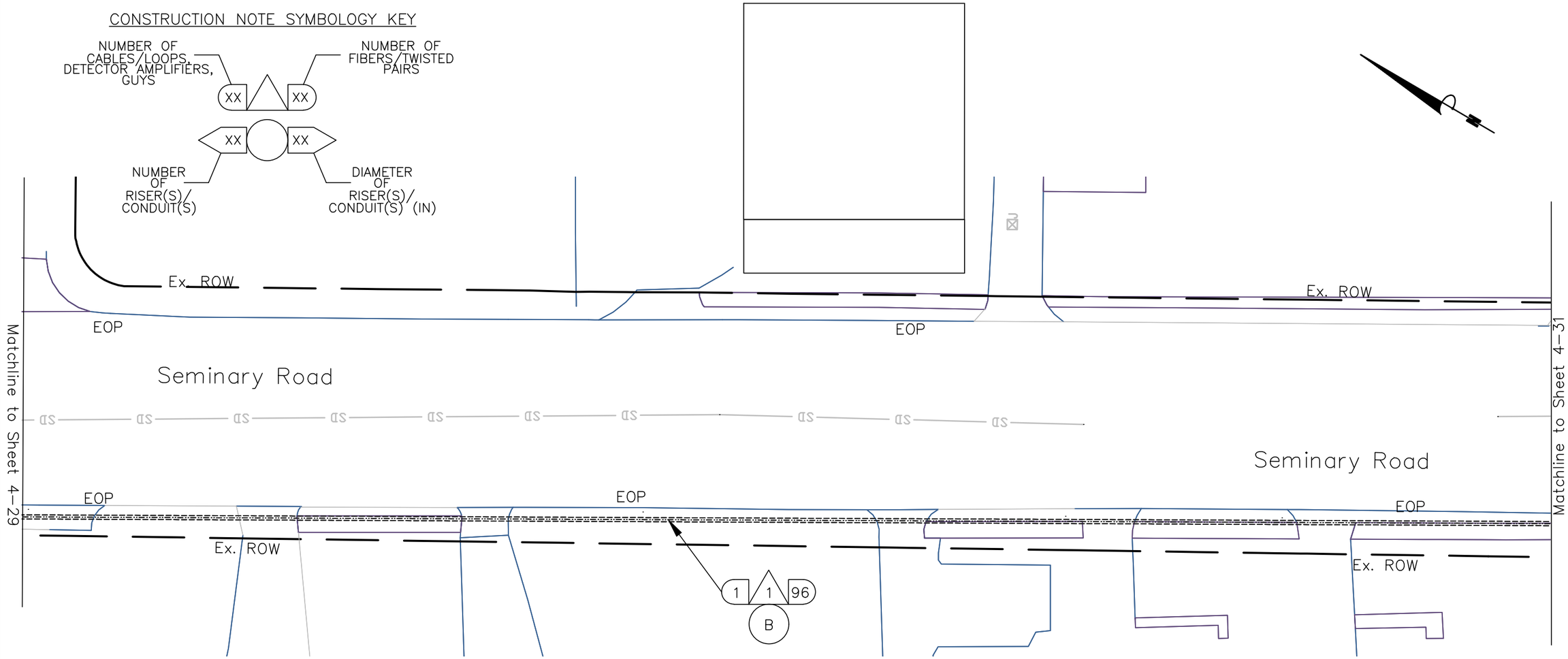
SHEET
4-29

CONSTRUCTION NOTE SYMBOLOGY KEY



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SHEET
4-30

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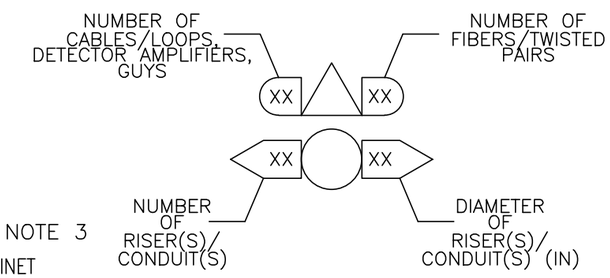

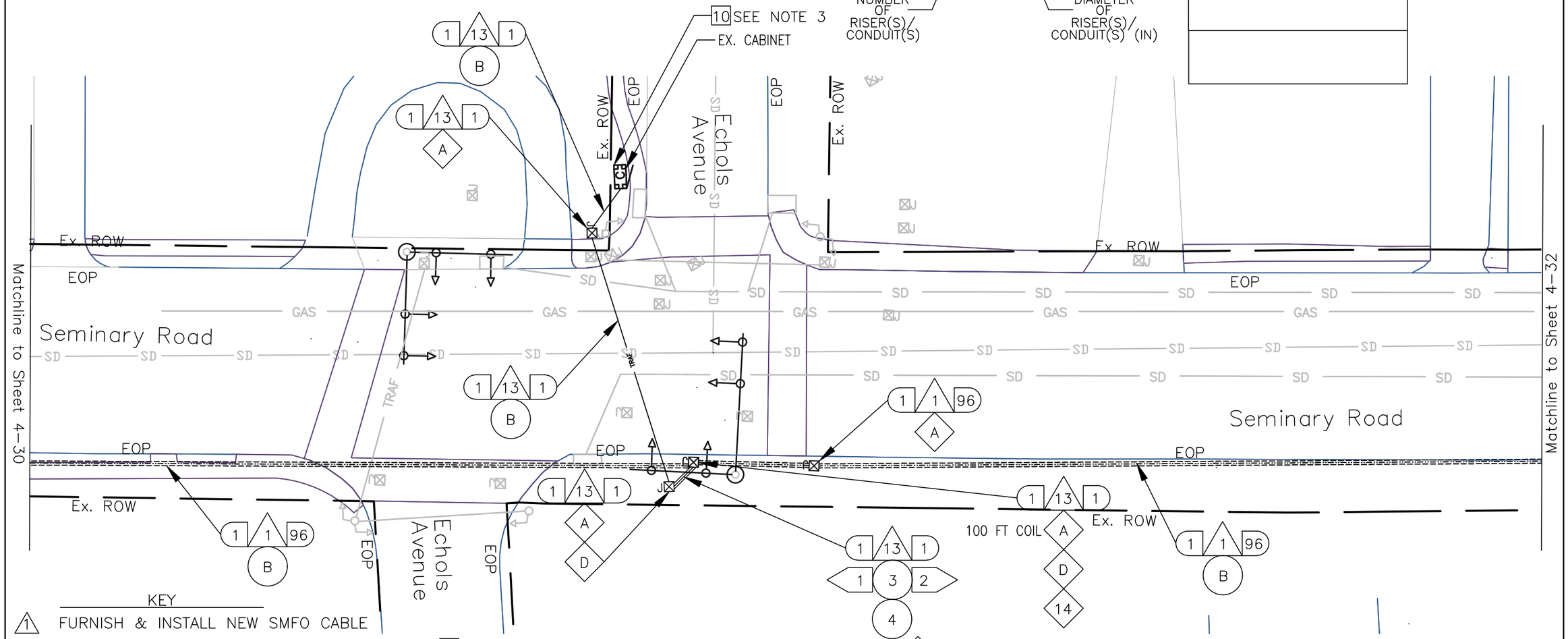

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY RD
FROM DAWES AVE
TO N BEAUREGARD ST
INTERCONNECT PLANS

SHEET
4-31

CONSTRUCTION NOTE SYMBOLOGY KEY

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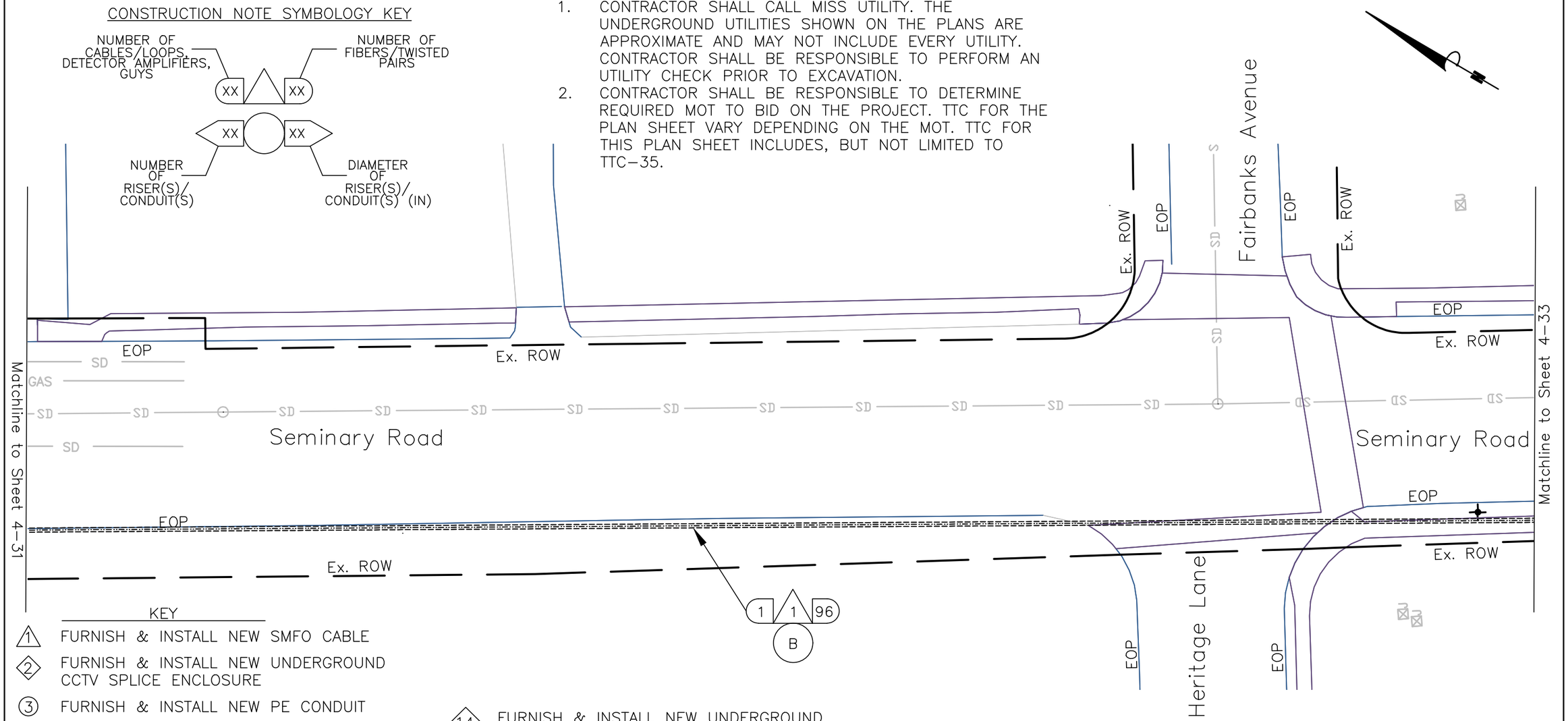

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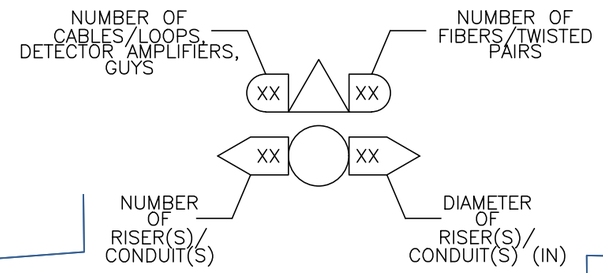
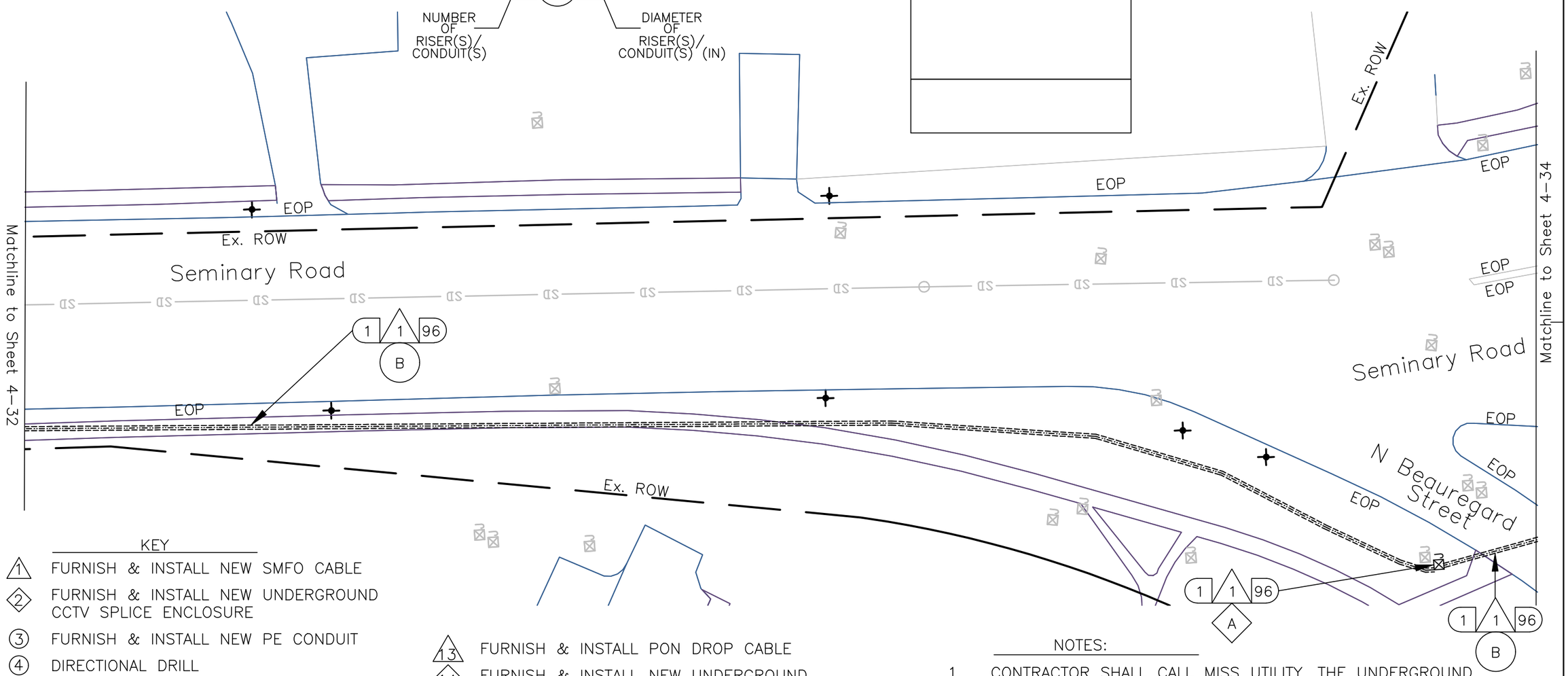
SEMINARY RD
FROM DAWES AVE
TO N BEAUREGARD ST
INTERCONNECT PLANS

SHEET
4-32

CONSTRUCTION NOTE SYMBOLOGY KEY





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SEMINARY RD FROM DAWES AVE TO N BEAUREGARD ST INTERCONNECT PLANS

SHEET
4-33

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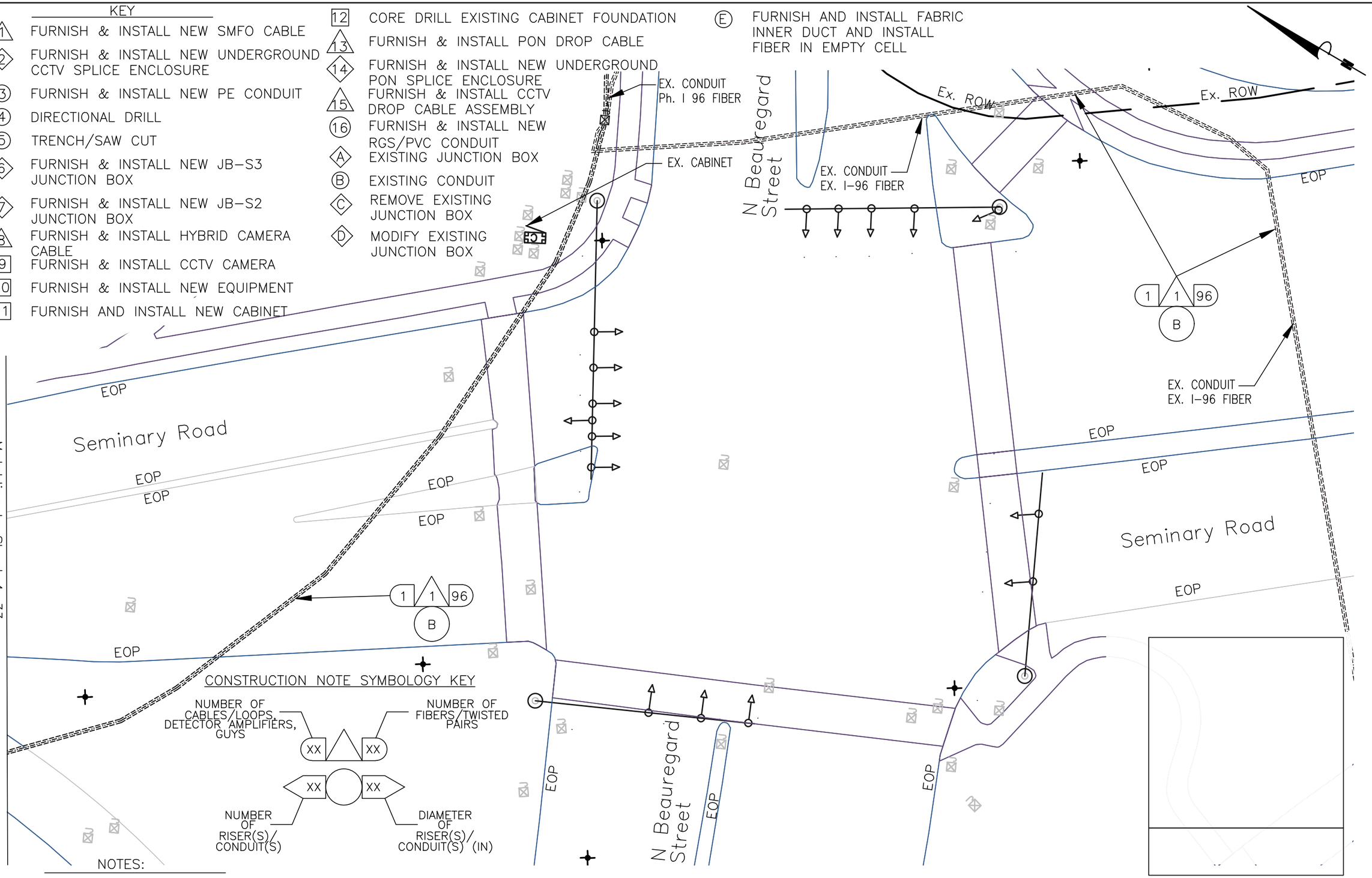

Matchline to Sheet 4–33

CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — XX

NUMBER OF FIBERS/TWISTED PAIRS — XX

NUMBER OF RISER(S)/ CONDUIT(S) — XX

DIAMETER OF RISER(S)/ CONDUIT(S) (IN) — XX

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY RD FROM DAWES AVE TO N BEAUREGARD ST INTERCONNECT PLANS

SHEET
4–34

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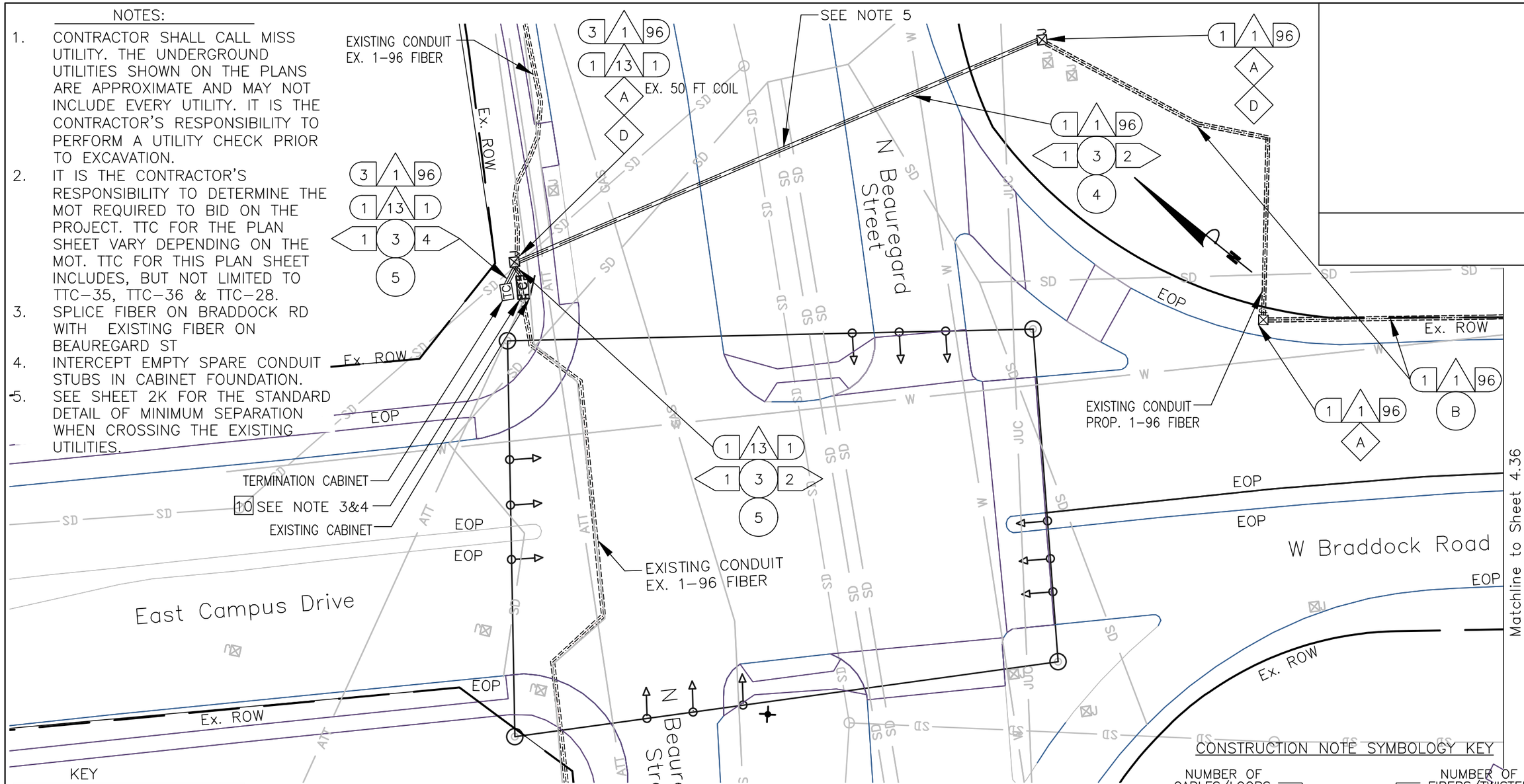
3. SPLICE FIBER ON BRADDOCK RD WITH EXISTING FIBER ON BEAUREGARD ST
4. INTERCEPT EMPTY SPARE CONDUIT STUBS IN CABINET FOUNDATION.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



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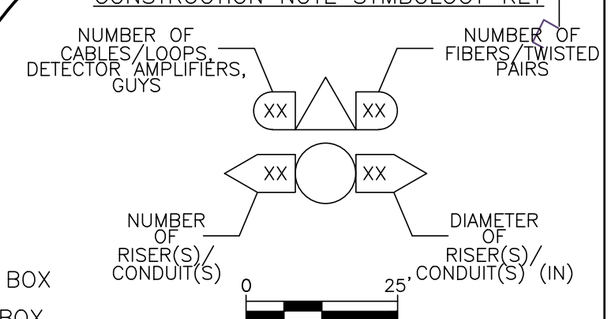
CONSTRUCTION NOTE SYMBOLOGY KEY



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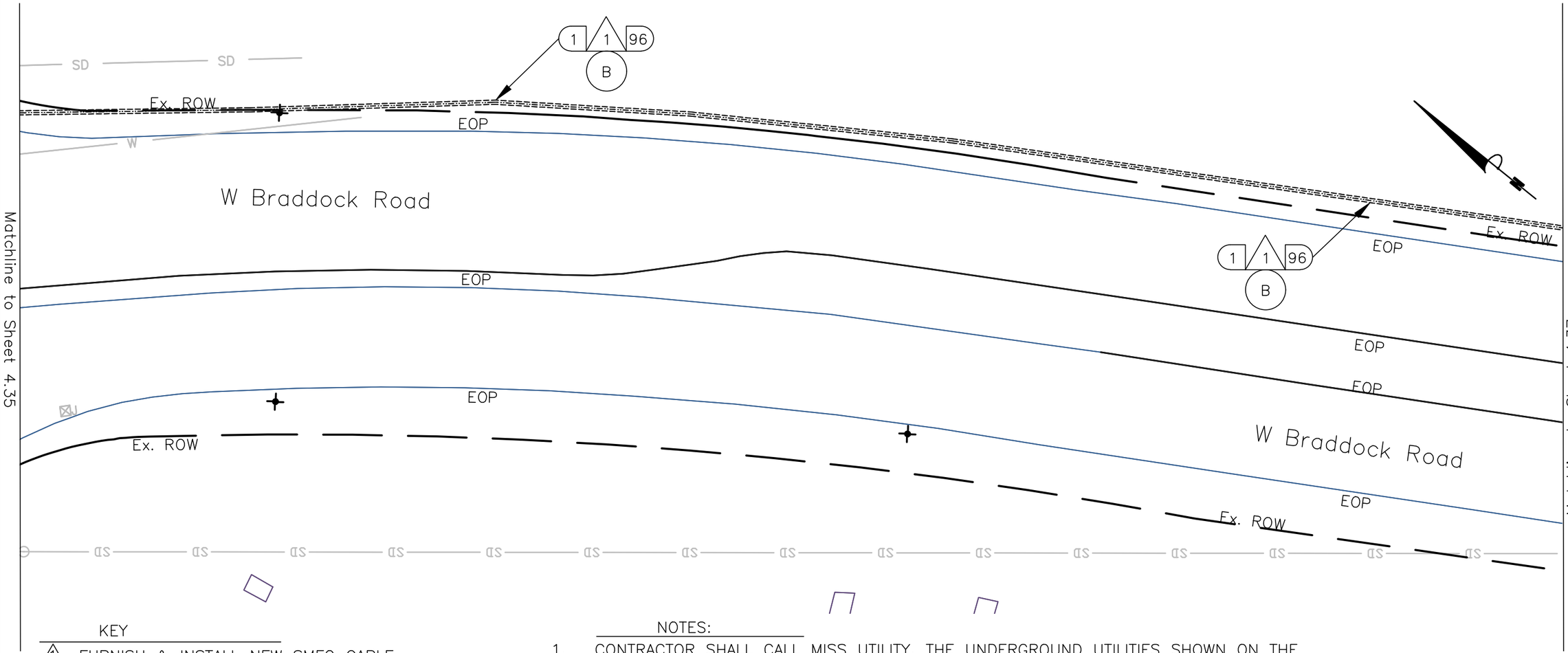
W BRADDOCK RD FROM N BEAUREGARD ST TO N HOWARD ST INTERCONNECT PLANS

SHEET
4-35
SCALE 1" = 25'



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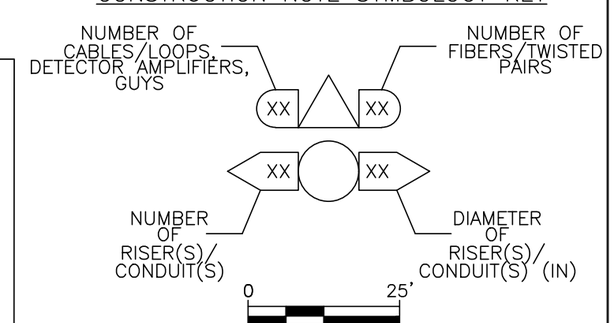

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FROM N BEAUREGARD ST
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INTERCONNECT PLANS

SHEET
4–36
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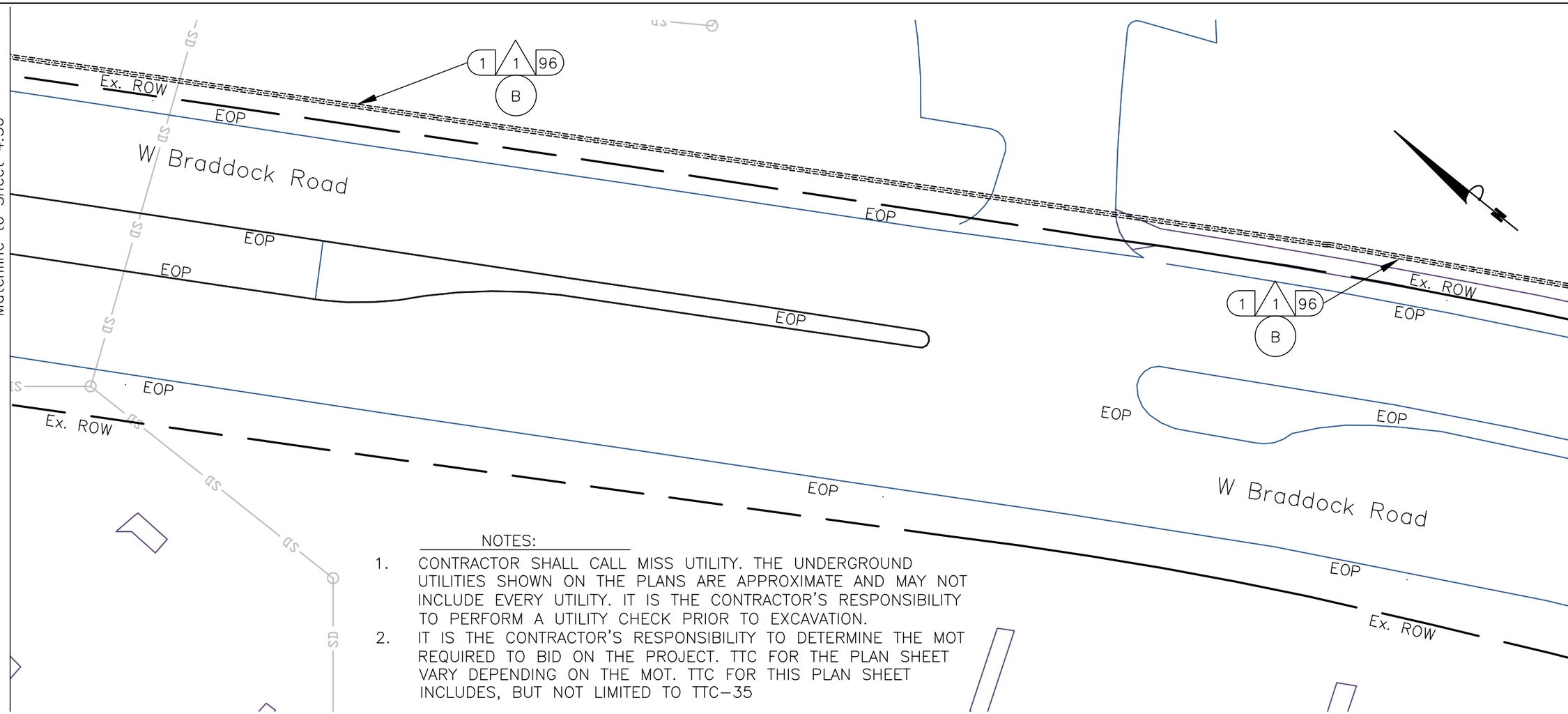

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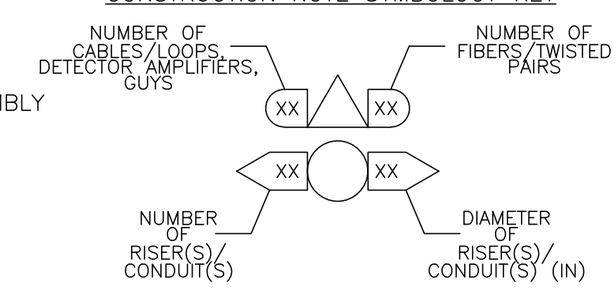

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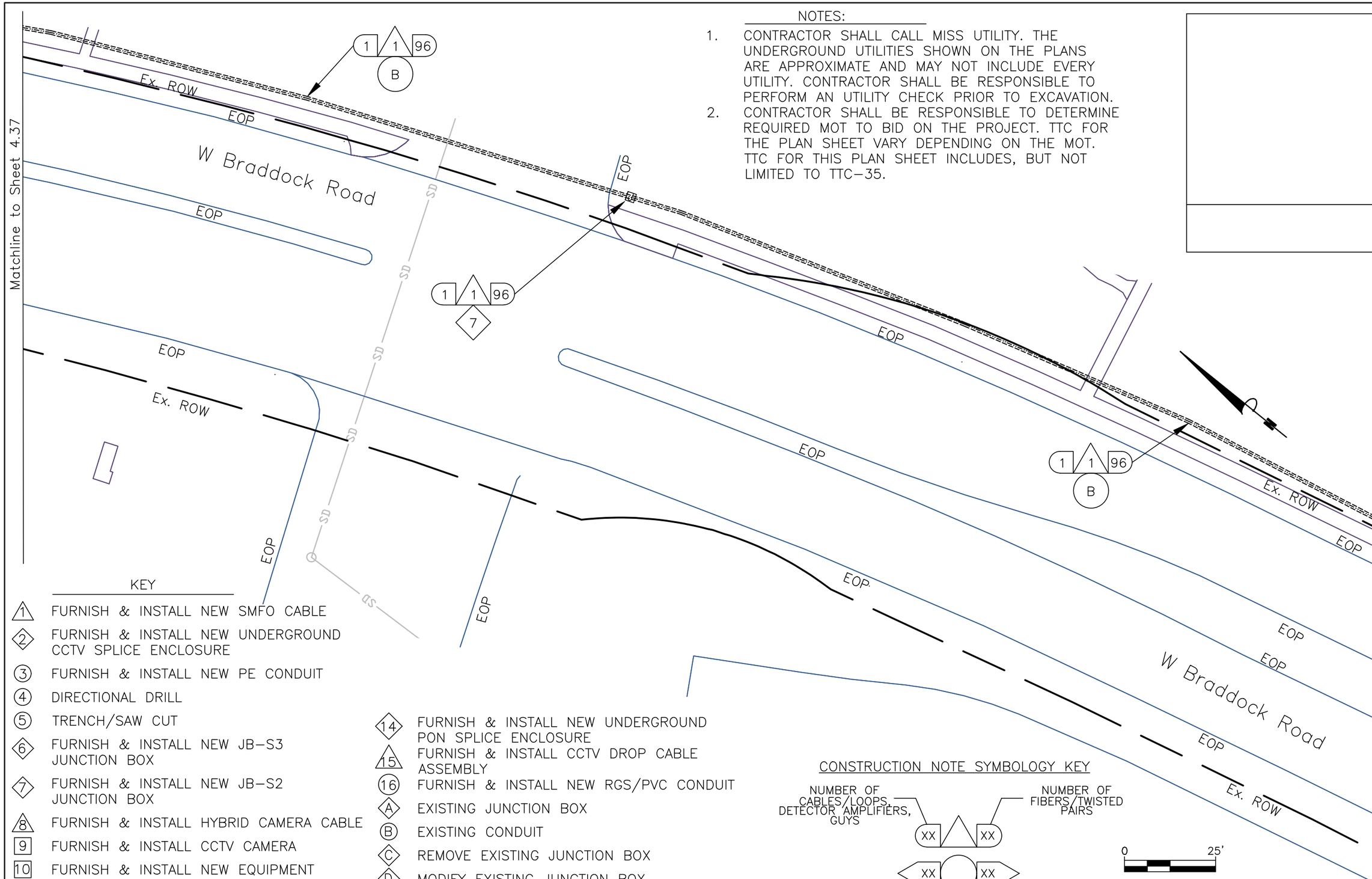

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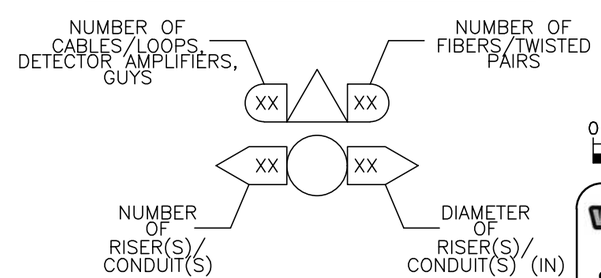

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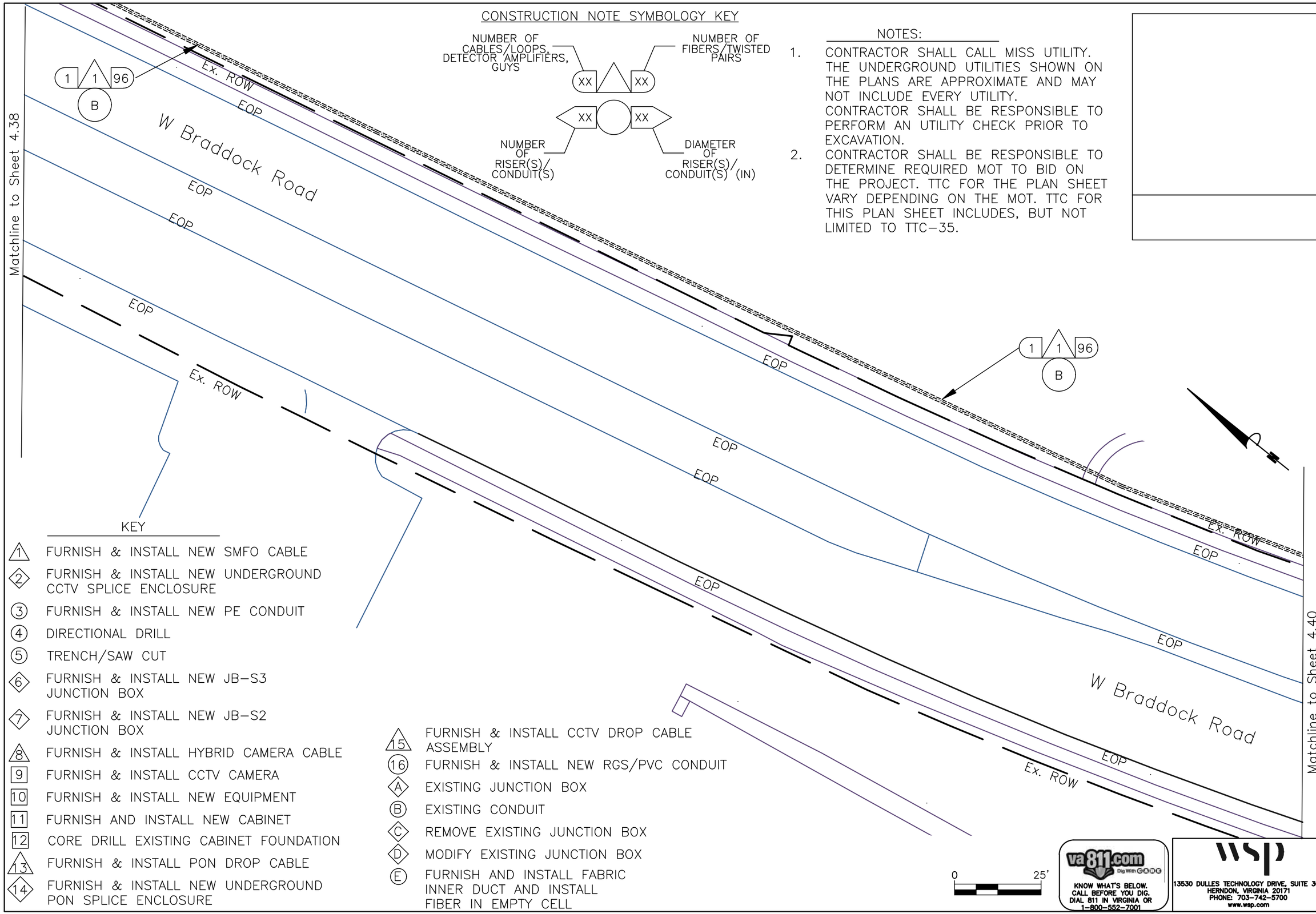
4-38
SCALE 1" = 25'



CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — XX

NUMBER OF FIBERS/TWISTED PAIRS — XX

NUMBER OF RISER(S)/ CONDUIT(S) — XX

DIAMETER OF RISER(S)/ CONDUIT(S) (IN) — XX

NOTES:

1. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AN UTILITY CHECK PRIOR TO EXCAVATION.
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KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXXX
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AG DATE: 7/24/20
DRAWN BY: PY DATE: 7/24/20
CHECKED BY: RR DATE: 7/24/20
APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD FROM N BEAUREGARD ST TO N HOWARD ST INTERCONNECT PLANS

SHEET
4–39
SCALE 1" = 25'

NOTES:

1. MISS UTILITY (1-800-522-7001) TICKET A912703381. COX, DOM, VAW, VZN AND WGL ARE AFFECTED.
2. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AN UTILITY CHECK PRIOR TO EXCAVATION.
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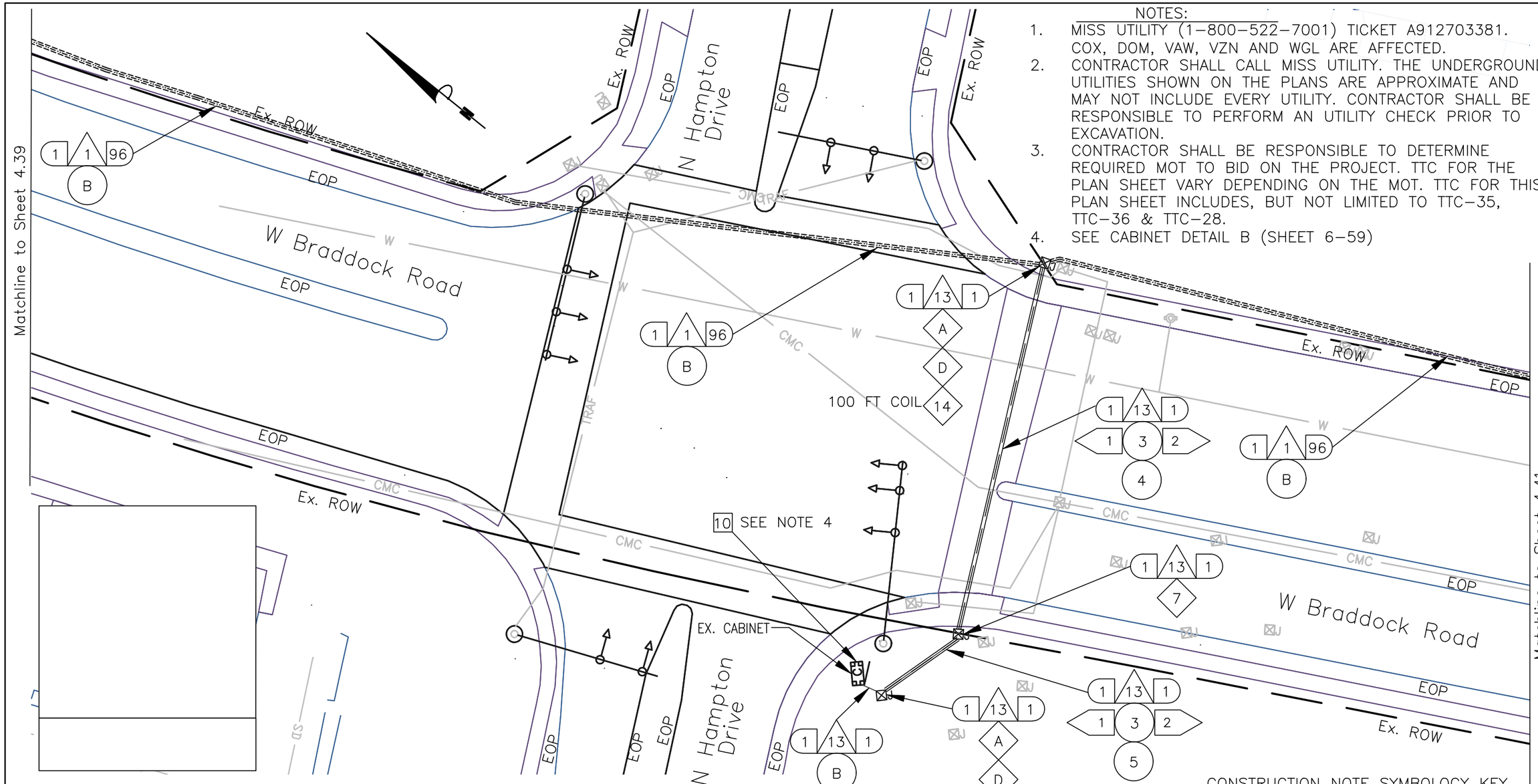
4. SEE CABINET DETAIL B (SHEET 6-59)



KEY

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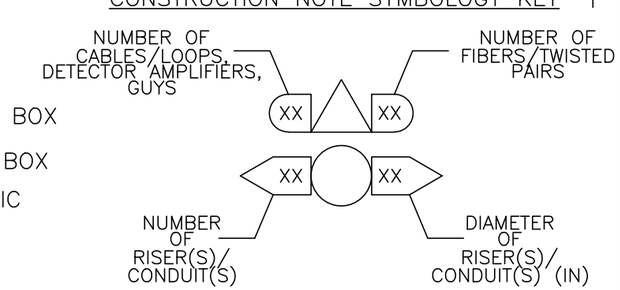
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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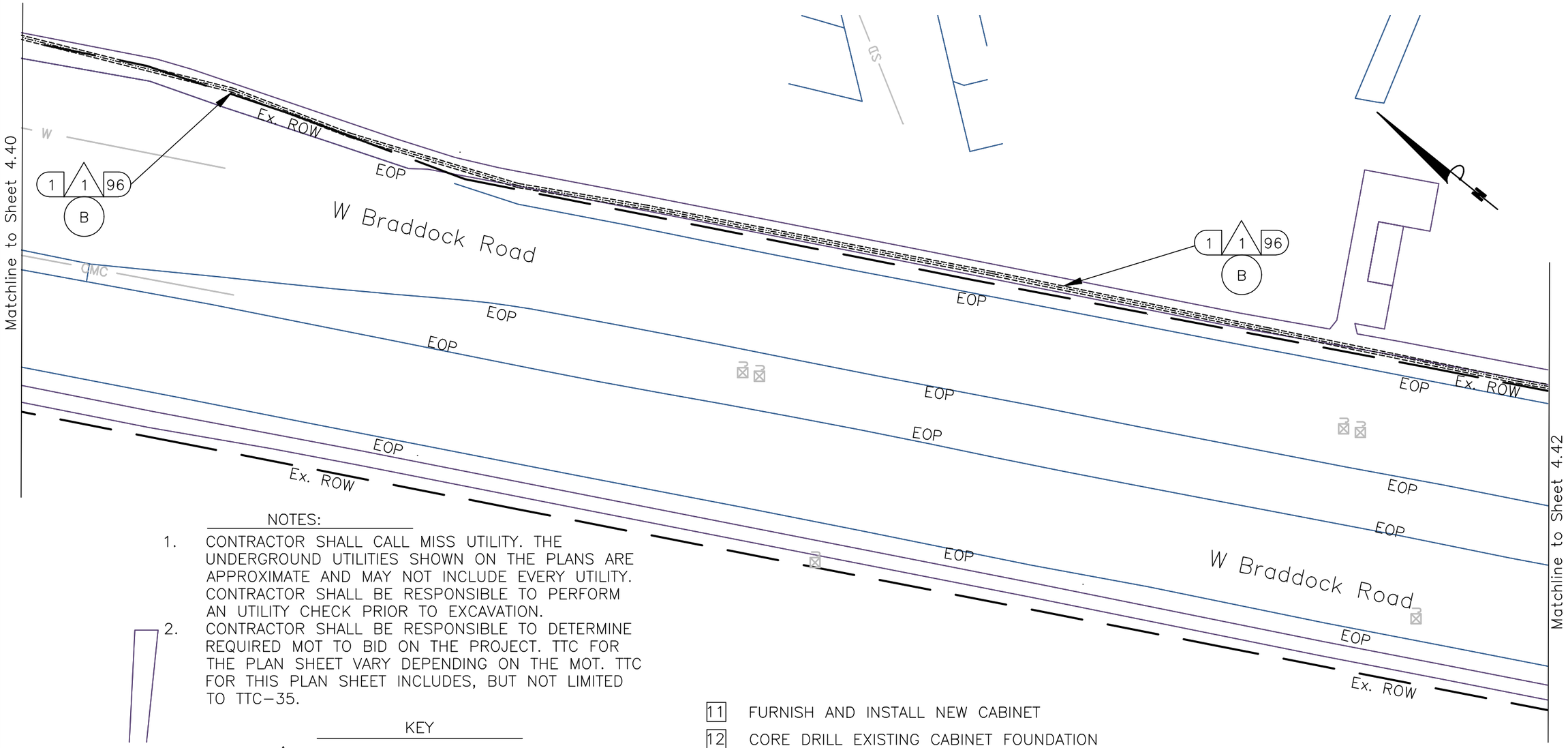
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD
FROM N BEAUREGARD ST
TO N HOWARD ST
INTERCONNECT PLANS

SHEET
4-40
SCALE 1" = 25'



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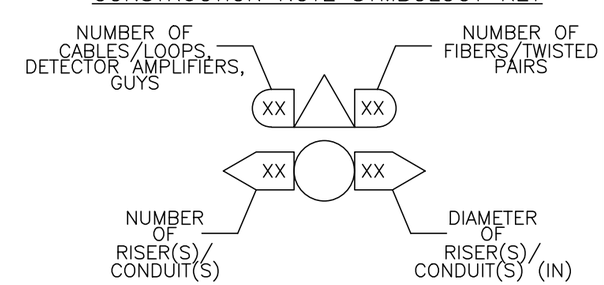
KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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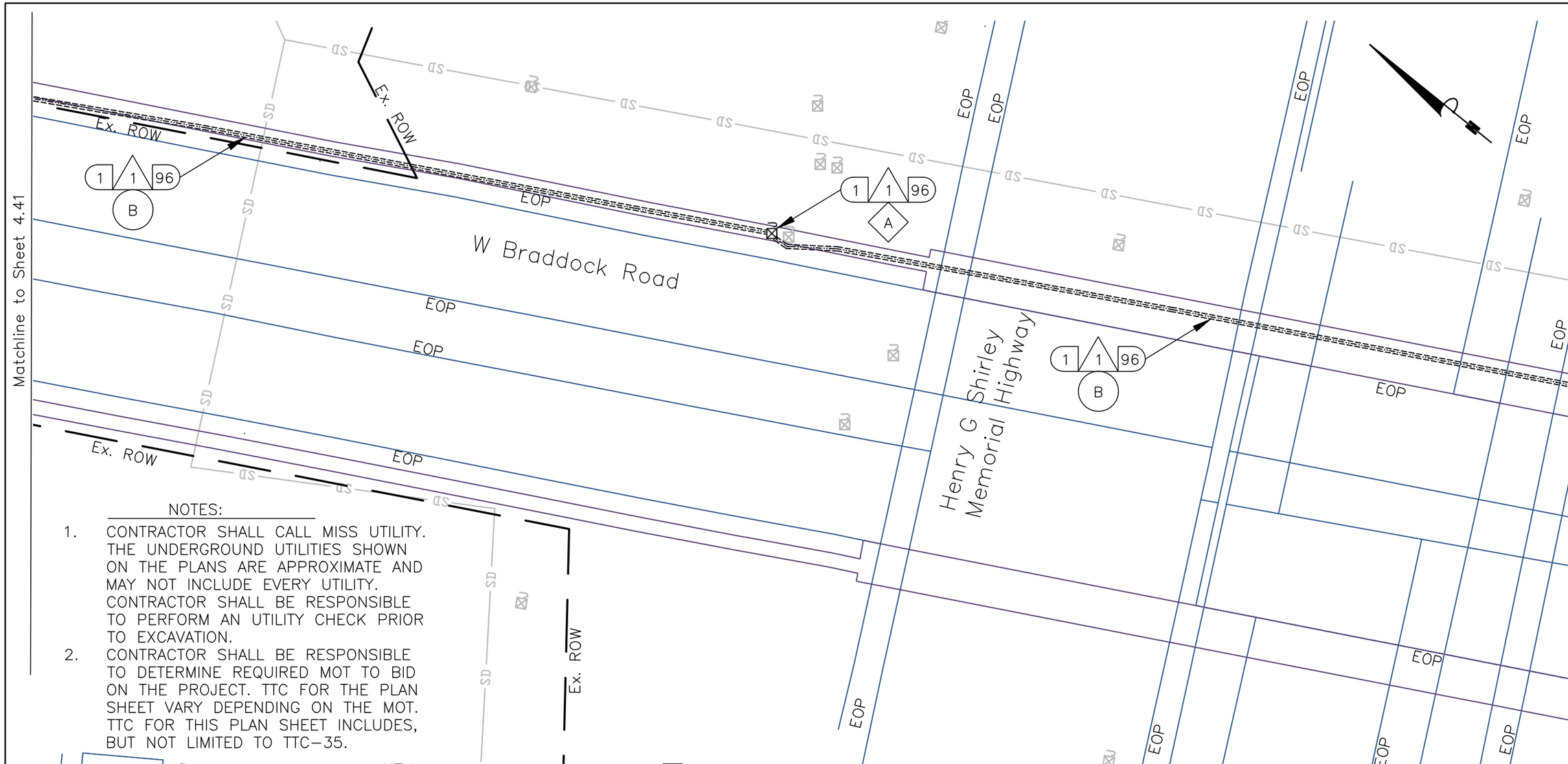
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD
FROM N BEAUREGARD ST
TO N HOWARD ST
INTERCONNECT PLANS

SHEET
4-41
SCALE 1" = 25'



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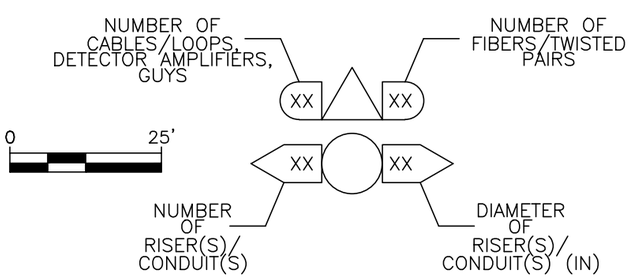
CONSTRUCTION NOTE SYMBOLOGY KEY



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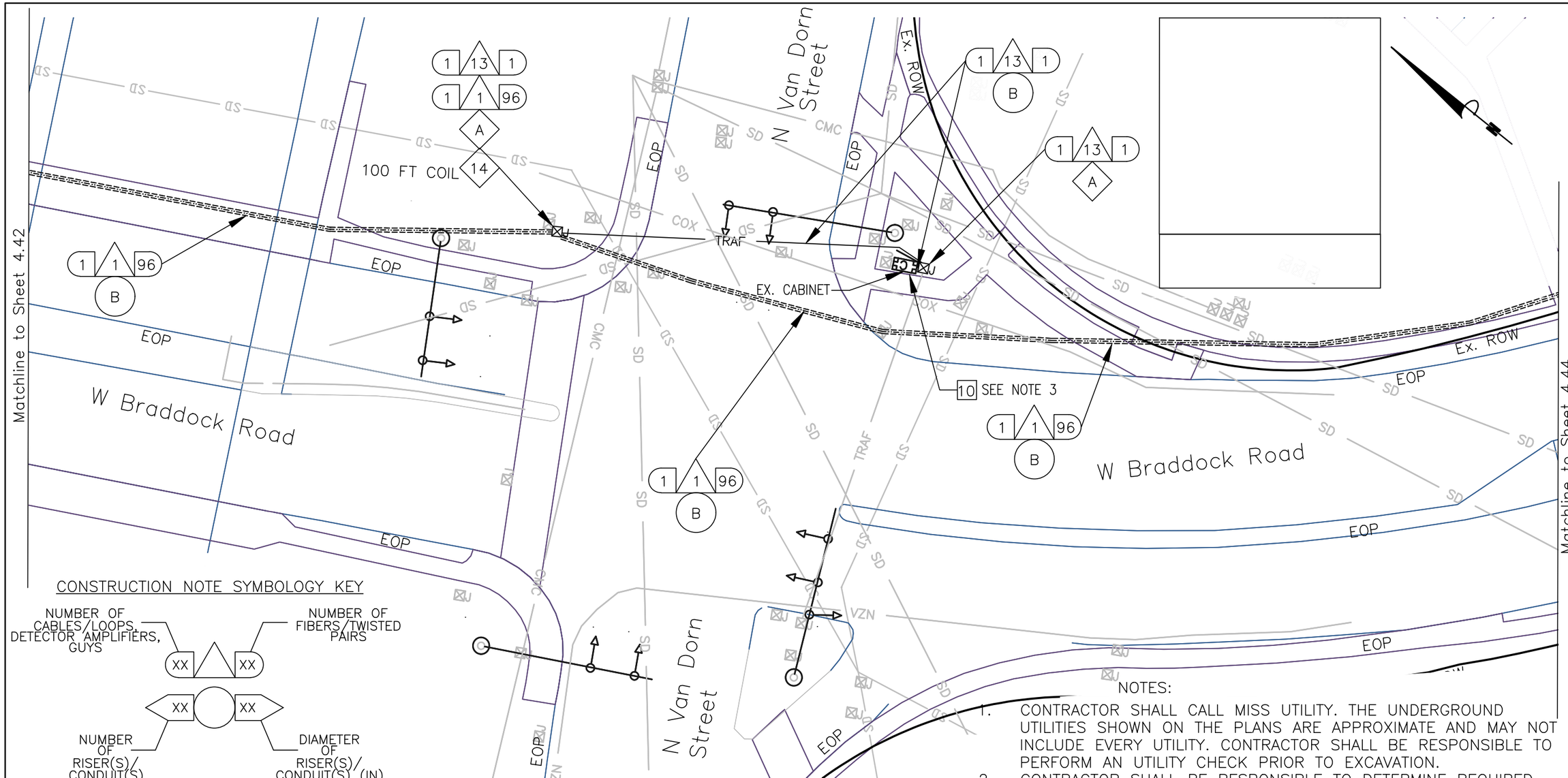
W BRADDOCK RD
FROM N BEAUREGARD ST
TO N HOWARD ST
INTERCONNECT PLANS

SHEET
4-42
SCALE 1" = 25'



CONSTRUCTION NOTE SYMBOLOGY KEY

KEY

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- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6-59)
4. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON-RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1-800-522-7001) TICKET A912703401.

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

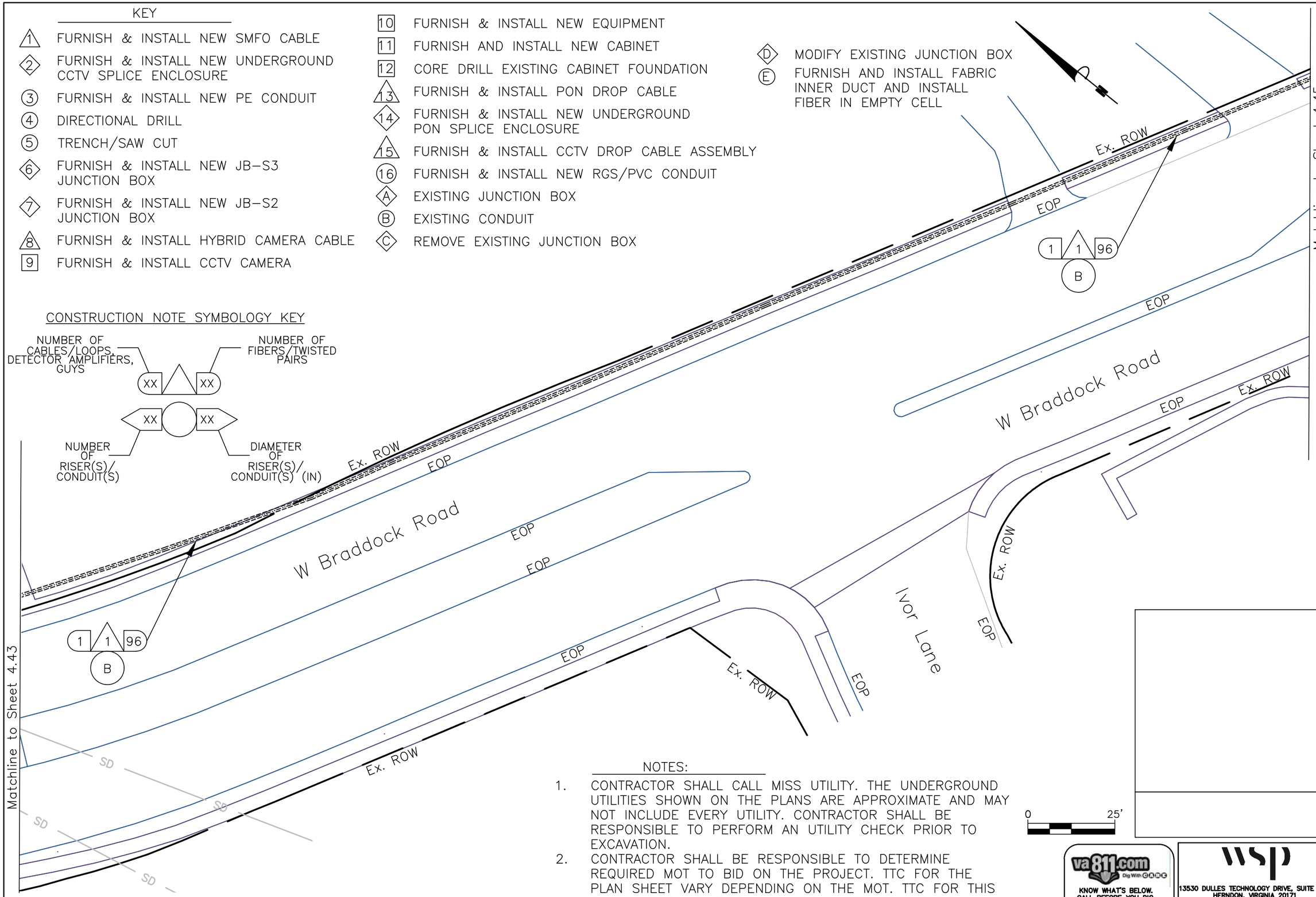
W BRADDOCK RD
FROM N BEAUREGARD ST
TO N HOWARD ST
INTERCONNECT PLANS

SHEET
4-43
SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



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0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD FROM N BEAUREGARD ST TO N HOWARD ST INTERCONNECT PLANS

SHEET
4-44
SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
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- A EXISTING JUNCTION BOX
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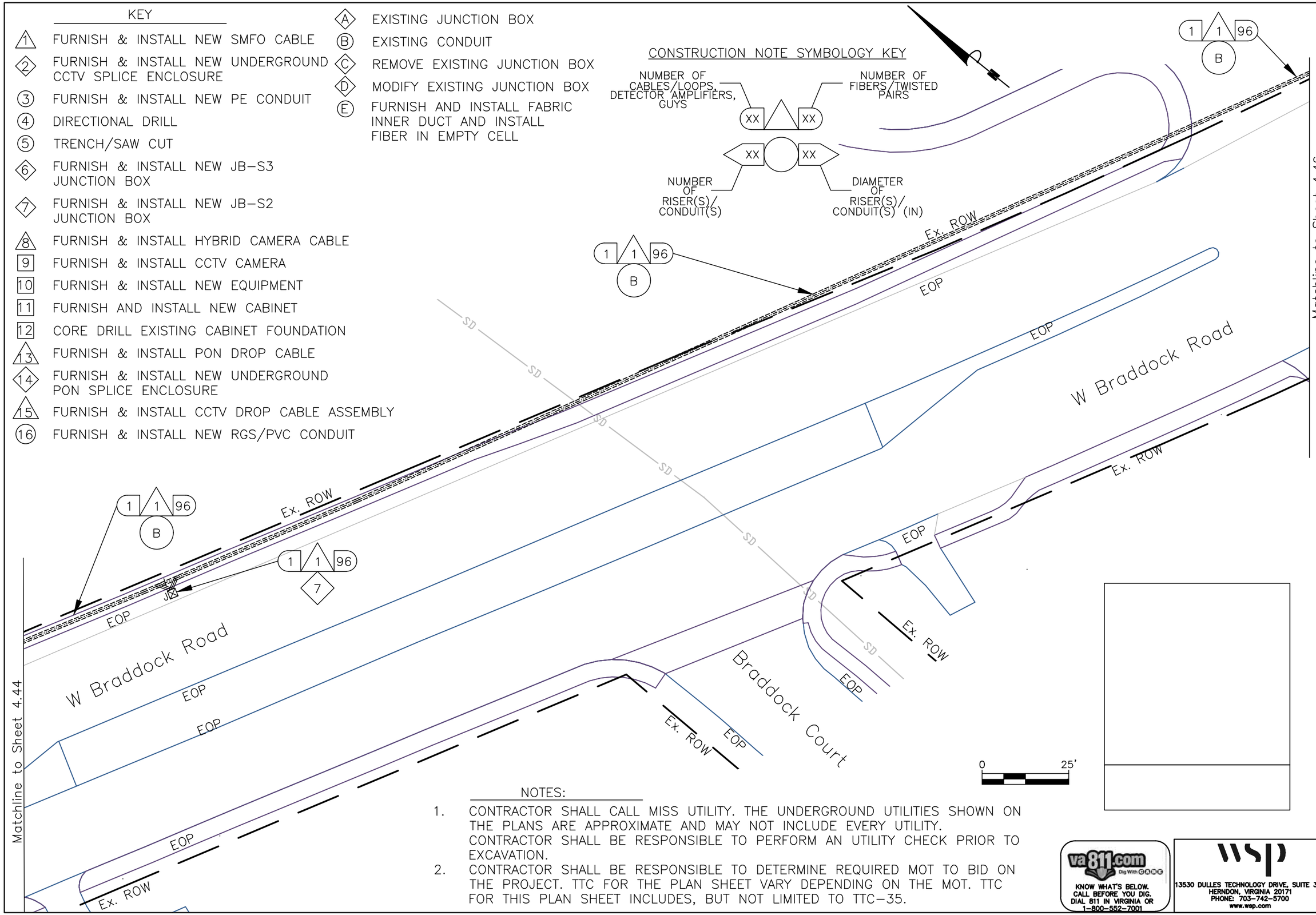

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD
FROM N BEAUREGARD ST
TO N HOWARD ST
INTERCONNECT PLANS

SHEET
4–45
SCALE 1" = 25'

KEY

- 1 — FURNISH & INSTALL NEW SMFO CABLE
- 2 — FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 — FURNISH & INSTALL NEW PE CONDUIT
- 4 — DIRECTIONAL DRILL
- 5 — TRENCH/SAW CUT
- 6 — FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
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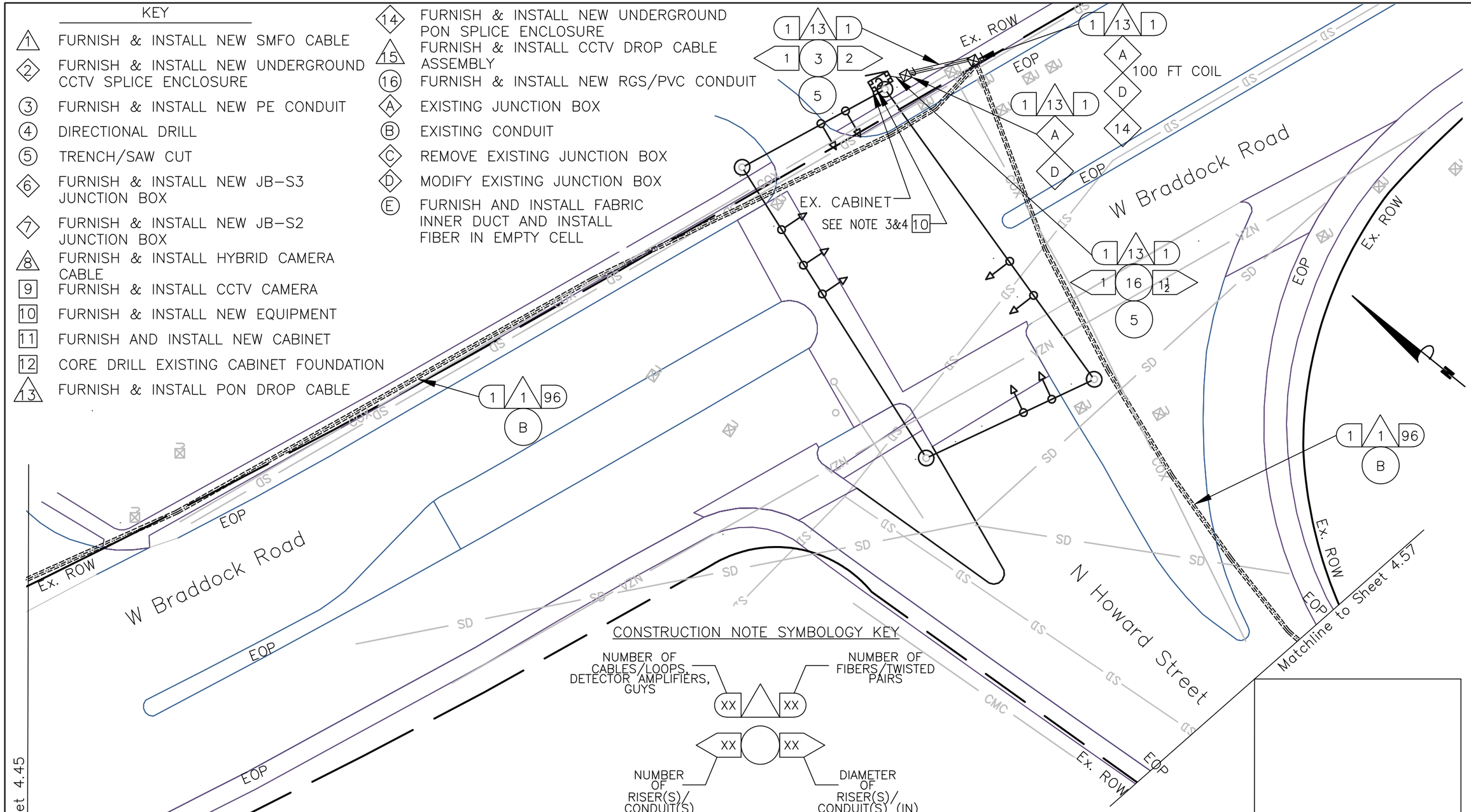

CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — XX

NUMBER OF FIBERS/TWISTED PAIRS — XX

NUMBER OF RISER(S)/ CONDUIT(S) — XX

DIAMETER OF RISER(S)/ CONDUIT(S) (IN) — XX

NOTES:

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2. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE REQUIRED MOT TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC–35.
3. SEE CABINET DETAIL B (SHEET 6–59)
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.

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DEPARTMENT OF PROJECT IMPLEMENTATION
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REVISIONS

DATE	BY	DESCRIPTION

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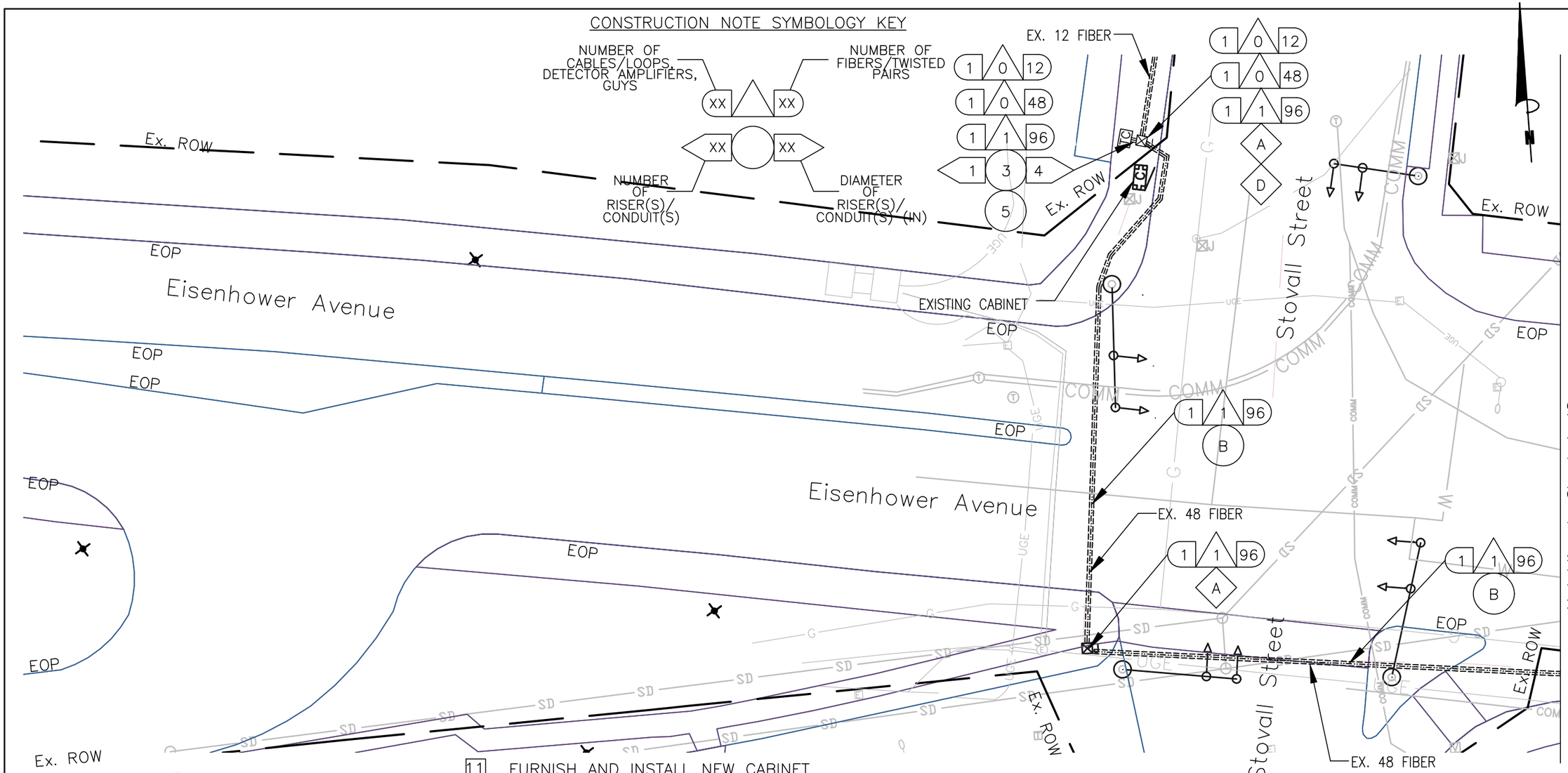
APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

W BRADDOCK RD FROM N BEAUREGARD ST TO N HOWARD ST INTERCONNECT PLANS

SHEET 4–46

SCALE 1" = 25'



KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-47
SCALE 1" = 25'

NOTES:

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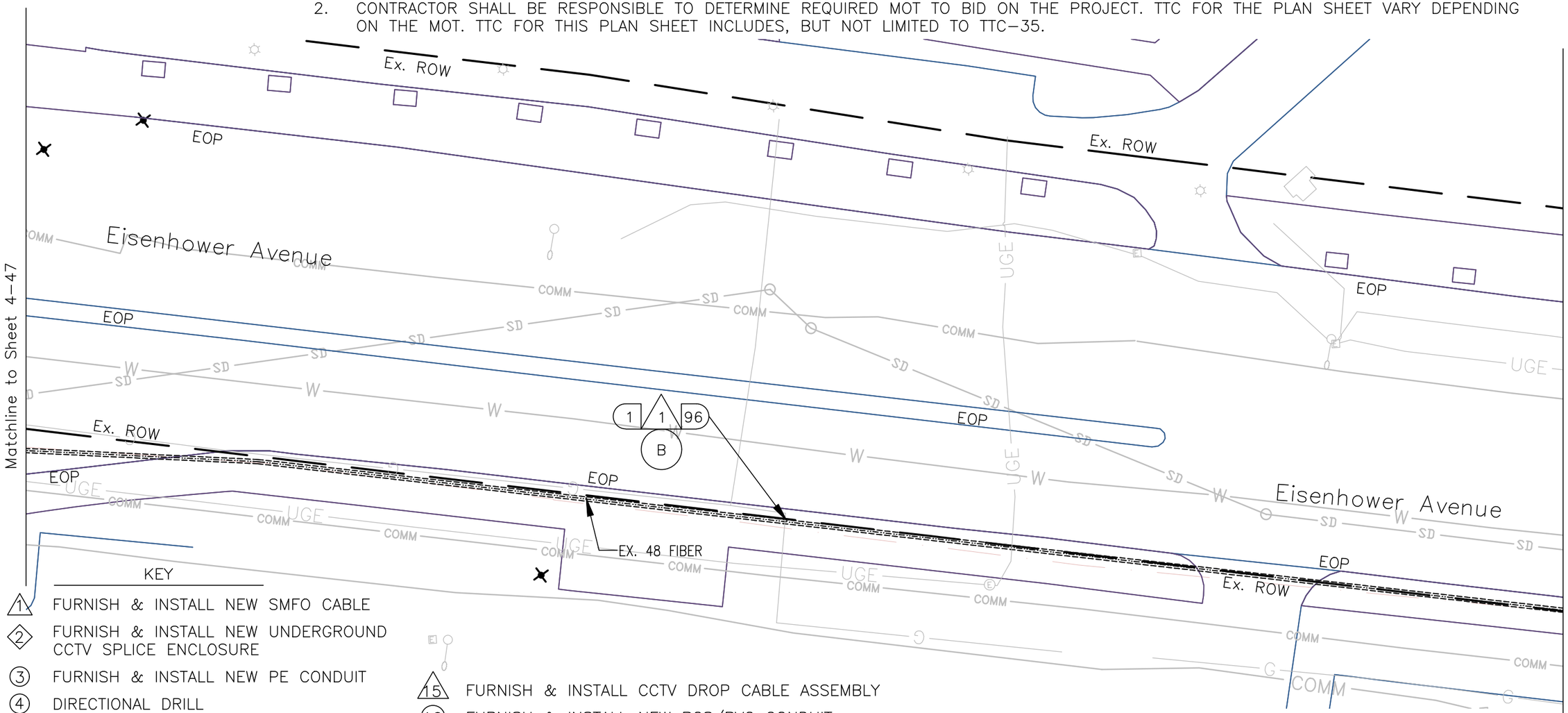

KEY

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- 3 FURNISH & INSTALL NEW PE CONDUIT
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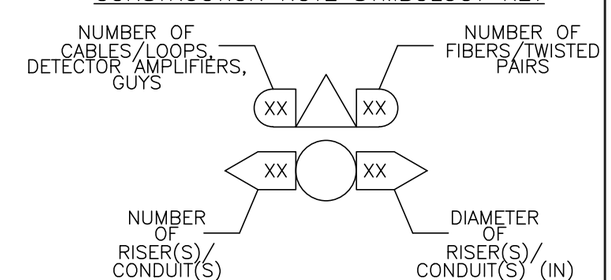
CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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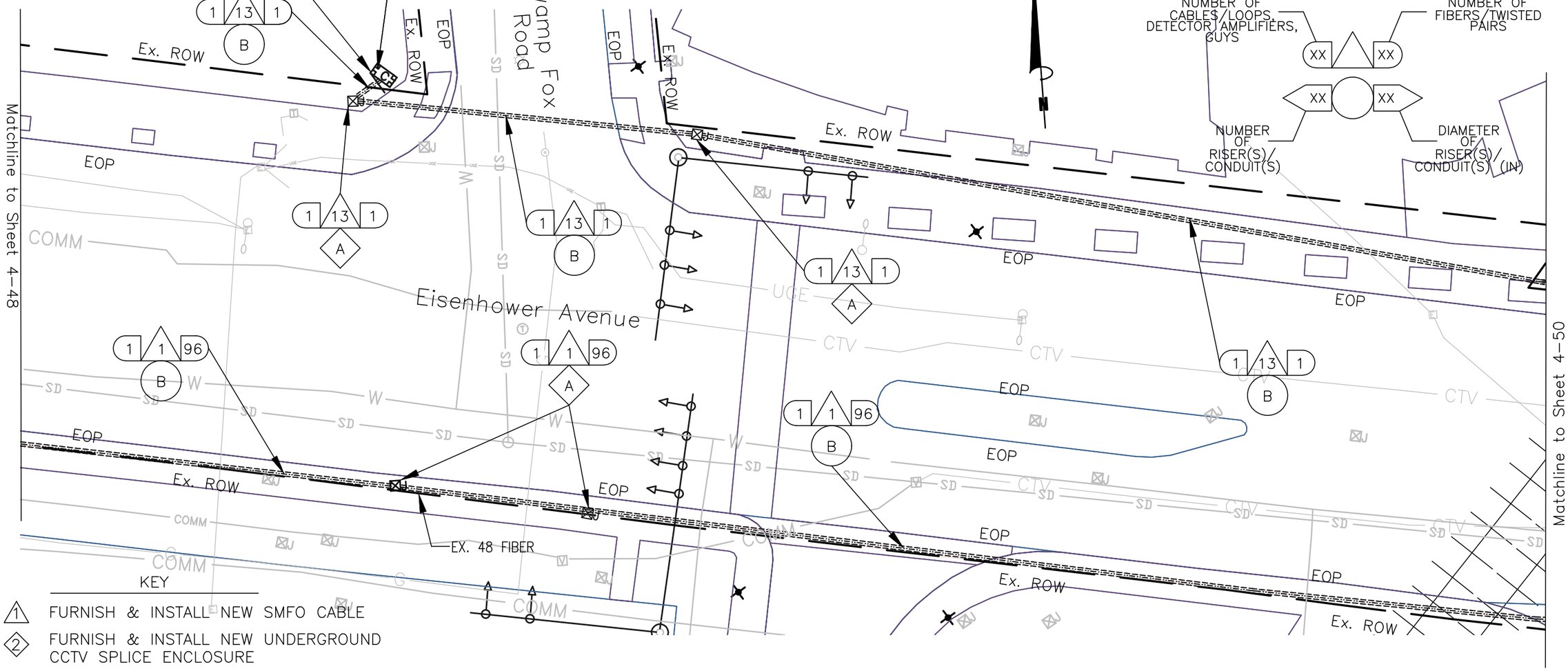
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-48
SCALE 1" = 25'



CONSTRUCTION NOTE SYMBOLOGY KEY

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
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- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6-59).

0 25'

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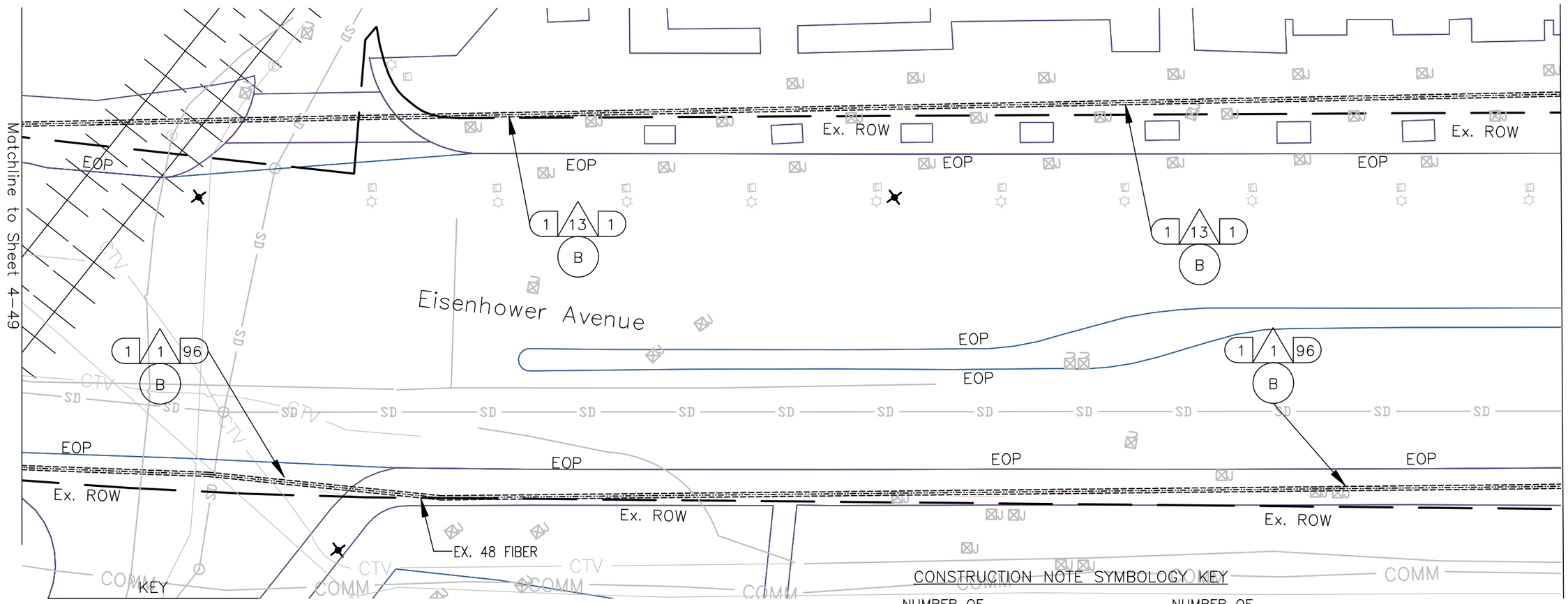
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-49
SCALE 1" = 25'



KEY

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5. TRENCH/SAW CUT
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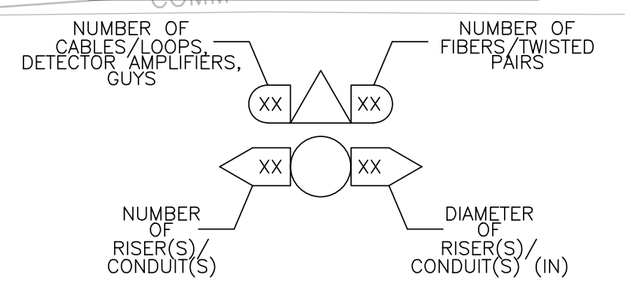
CONSTRUCTION NOTE SYMBOLOGY KEY



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0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-50
SCALE 1" = 25'

NOTES:

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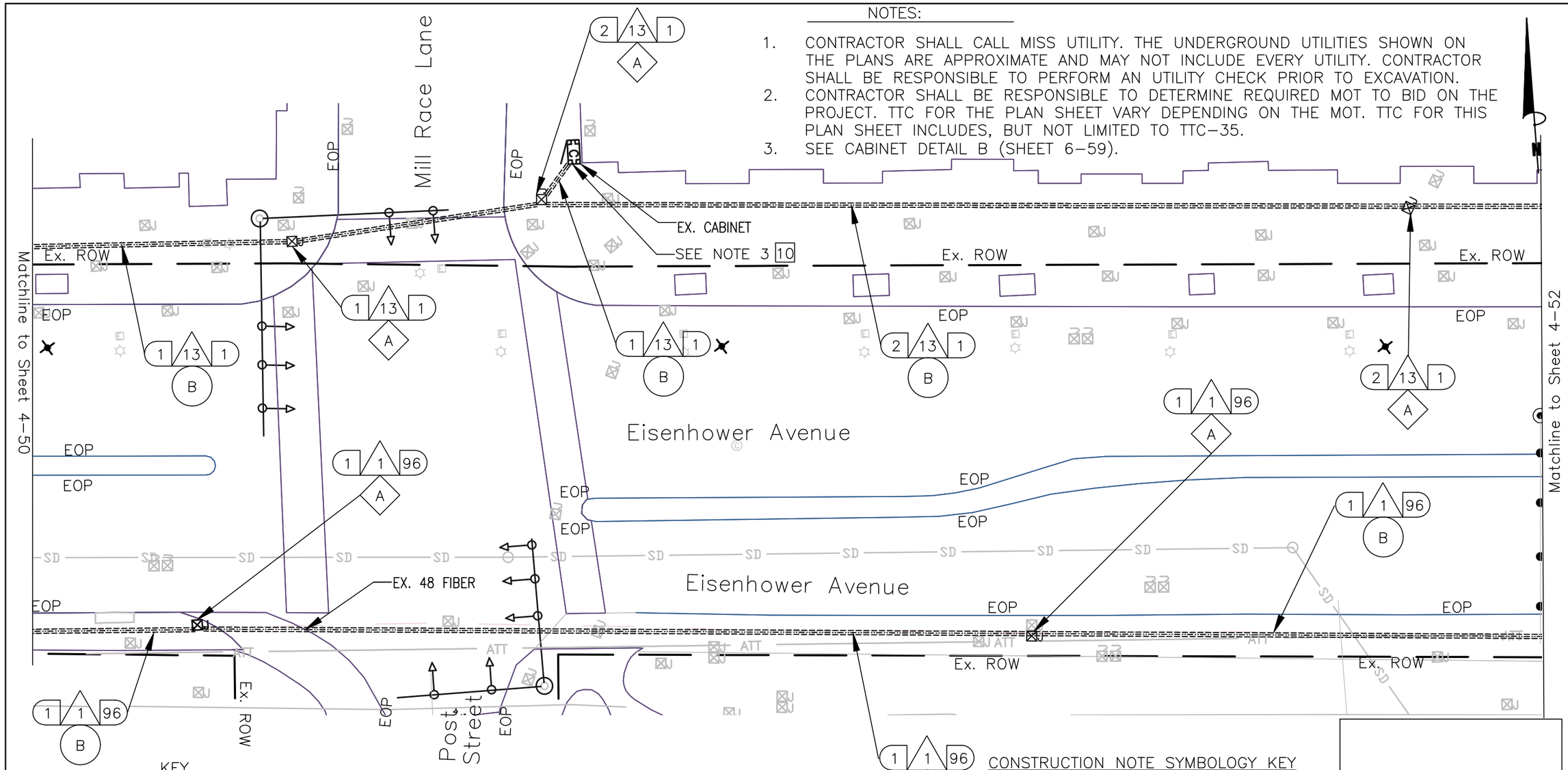

KEY

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CONSTRUCTION NOTE SYMBOLOGY KEY

1 1 96 B

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — XX

NUMBER OF FIBERS/TWISTED PAIRS — XX

NUMBER OF RISER(S)/CONDUIT(S) — XX

DIAMETER OF RISER(S)/CONDUIT(S) (IN) — XX

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET 4-51

SCALE 1" = 25'

NOTES:

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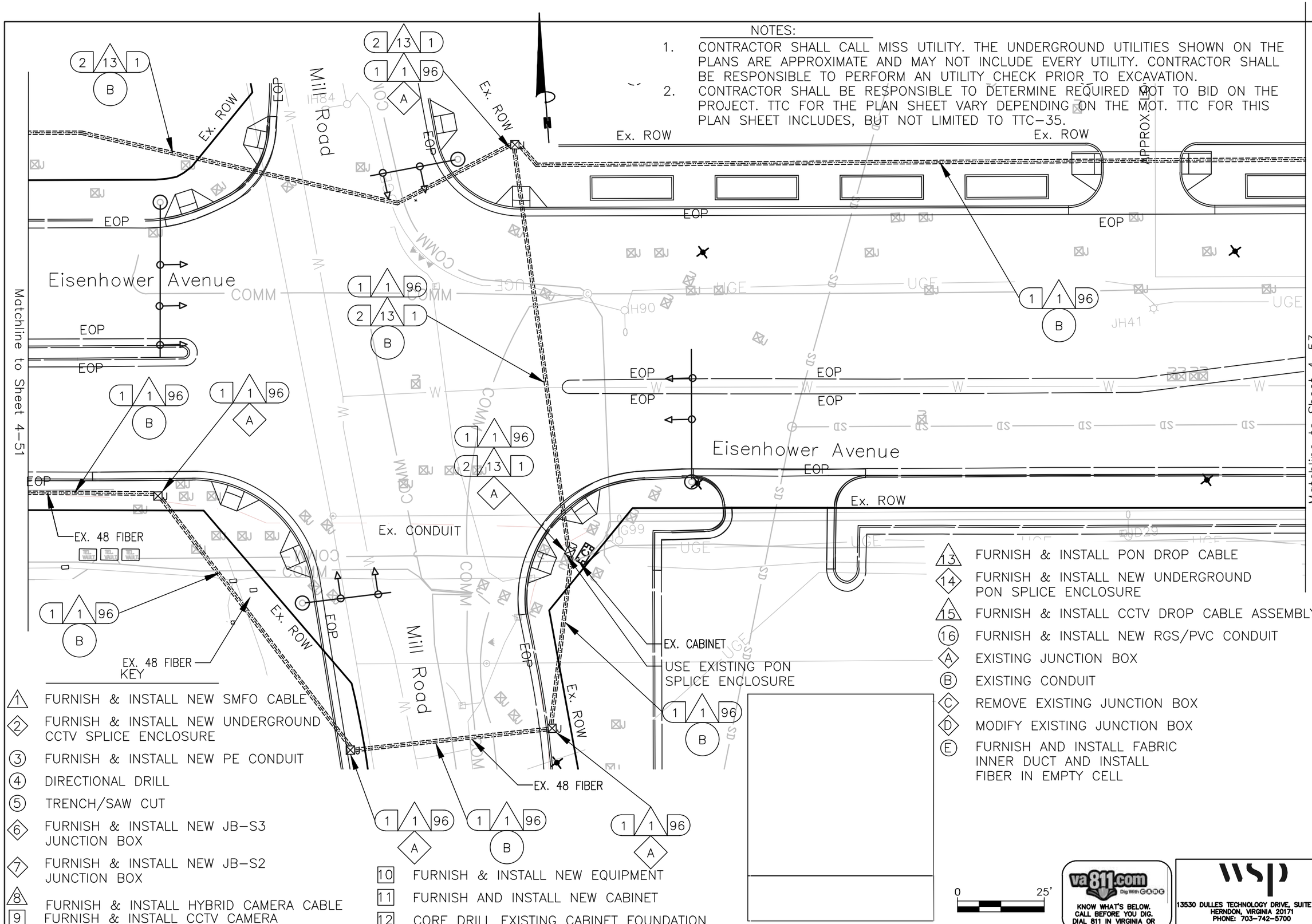

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-52
SCALE 1" = 25'

NOTES:

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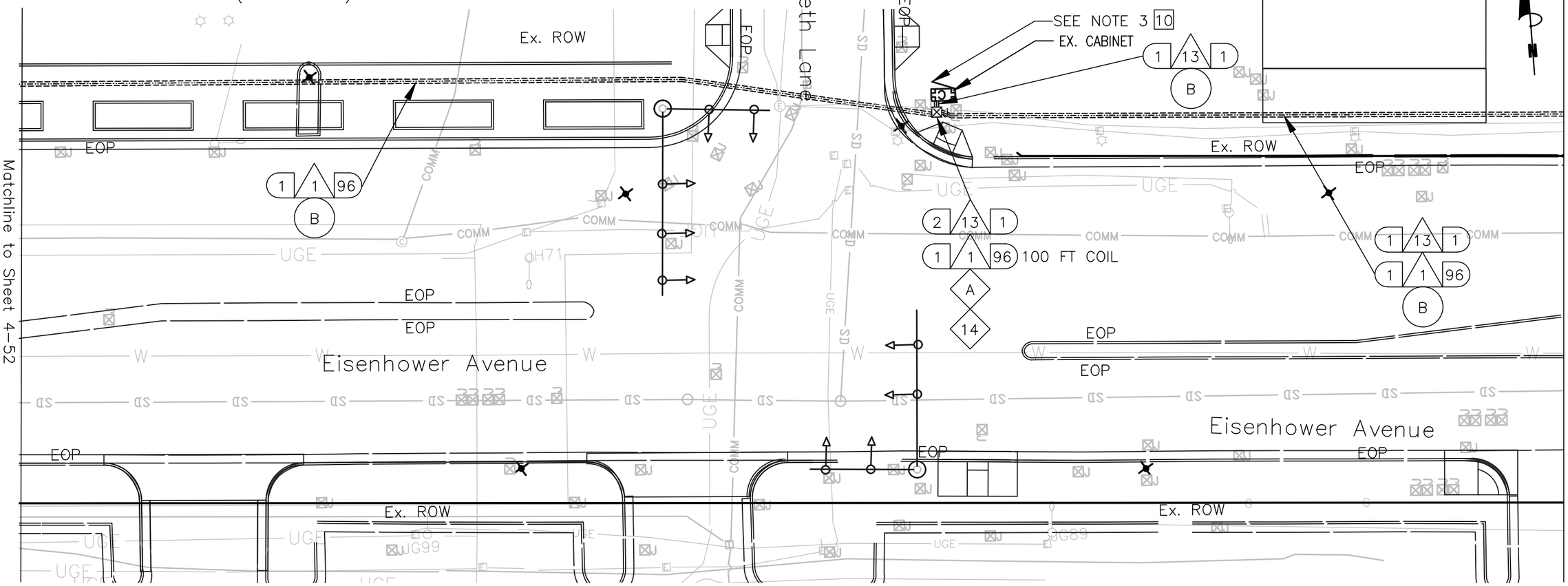

KEY

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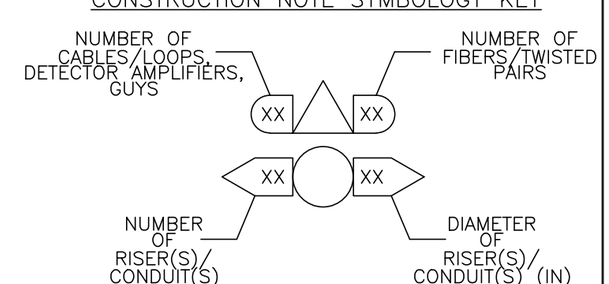
CONSTRUCTION NOTE SYMBOLOGY KEY



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EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET 4–53

SCALE 1" = 25'

NOTES:

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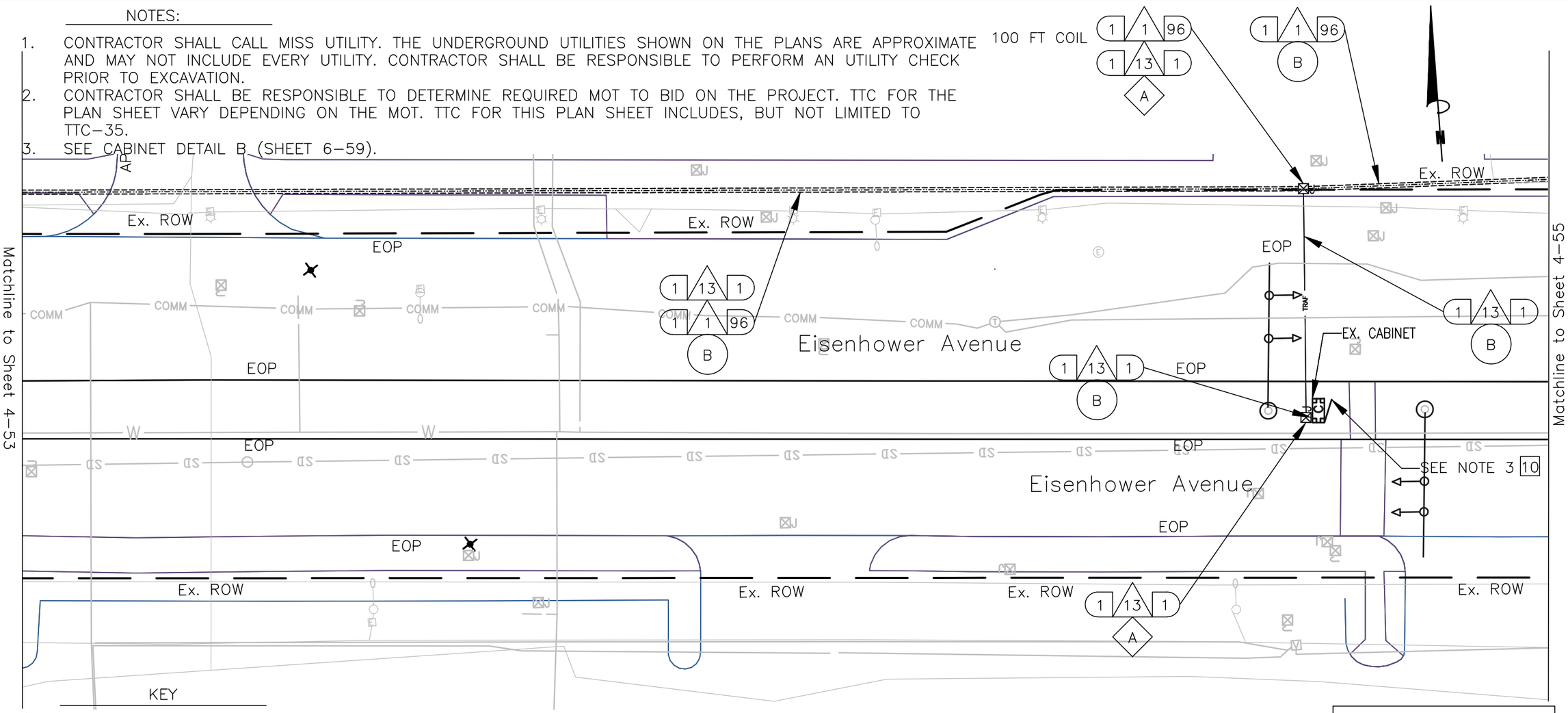
3. SEE CABINET DETAIL B (SHEET 6-59).



KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
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- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
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- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
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- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
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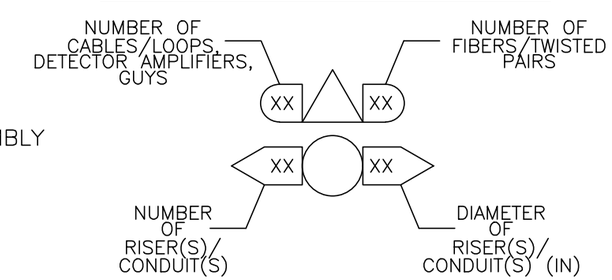
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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ALEXANDRIA, VIRGINIA 22313

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-54
SCALE 1" = 25'

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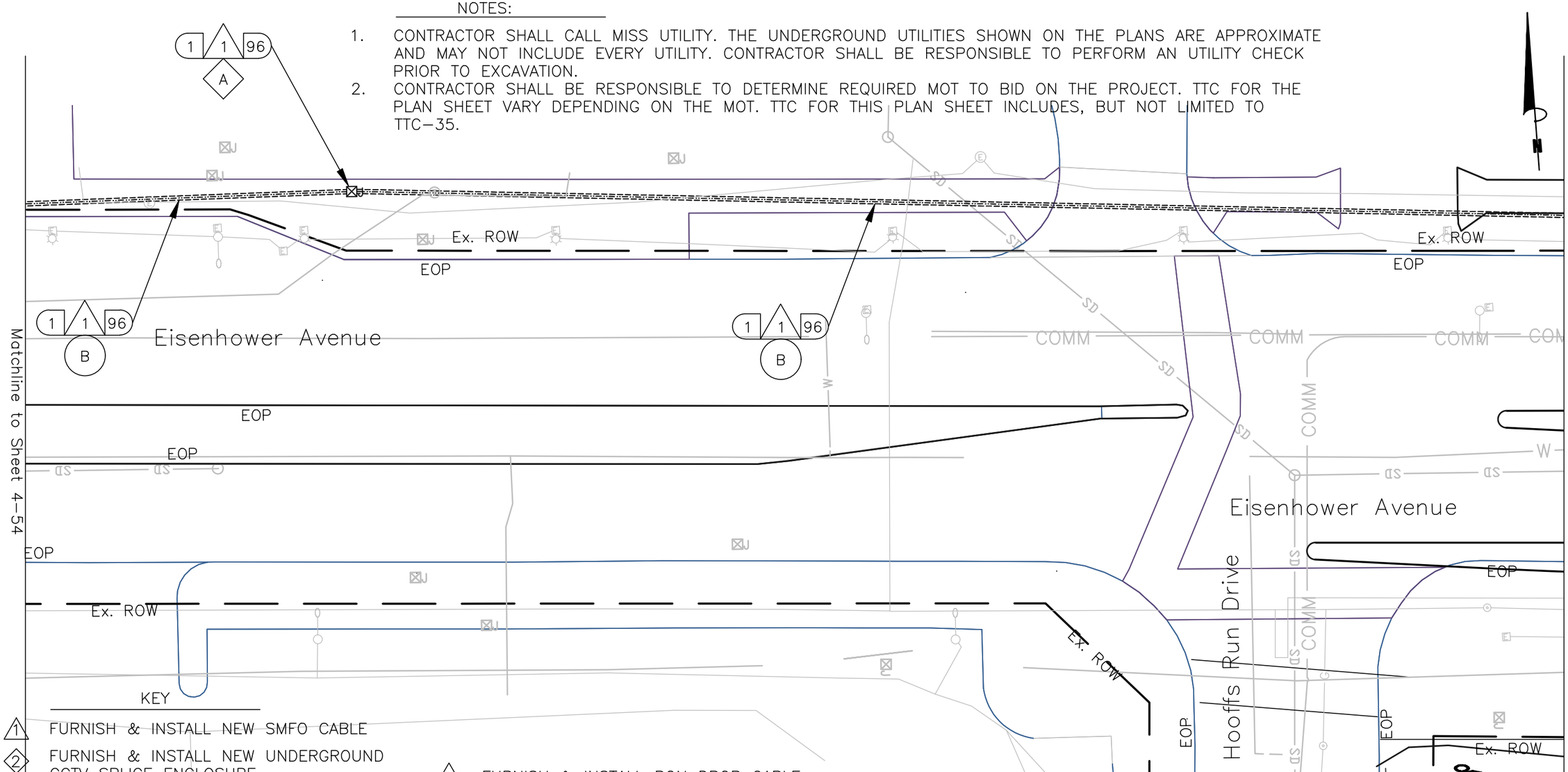

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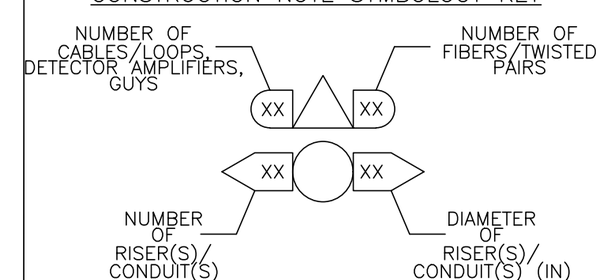
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

0 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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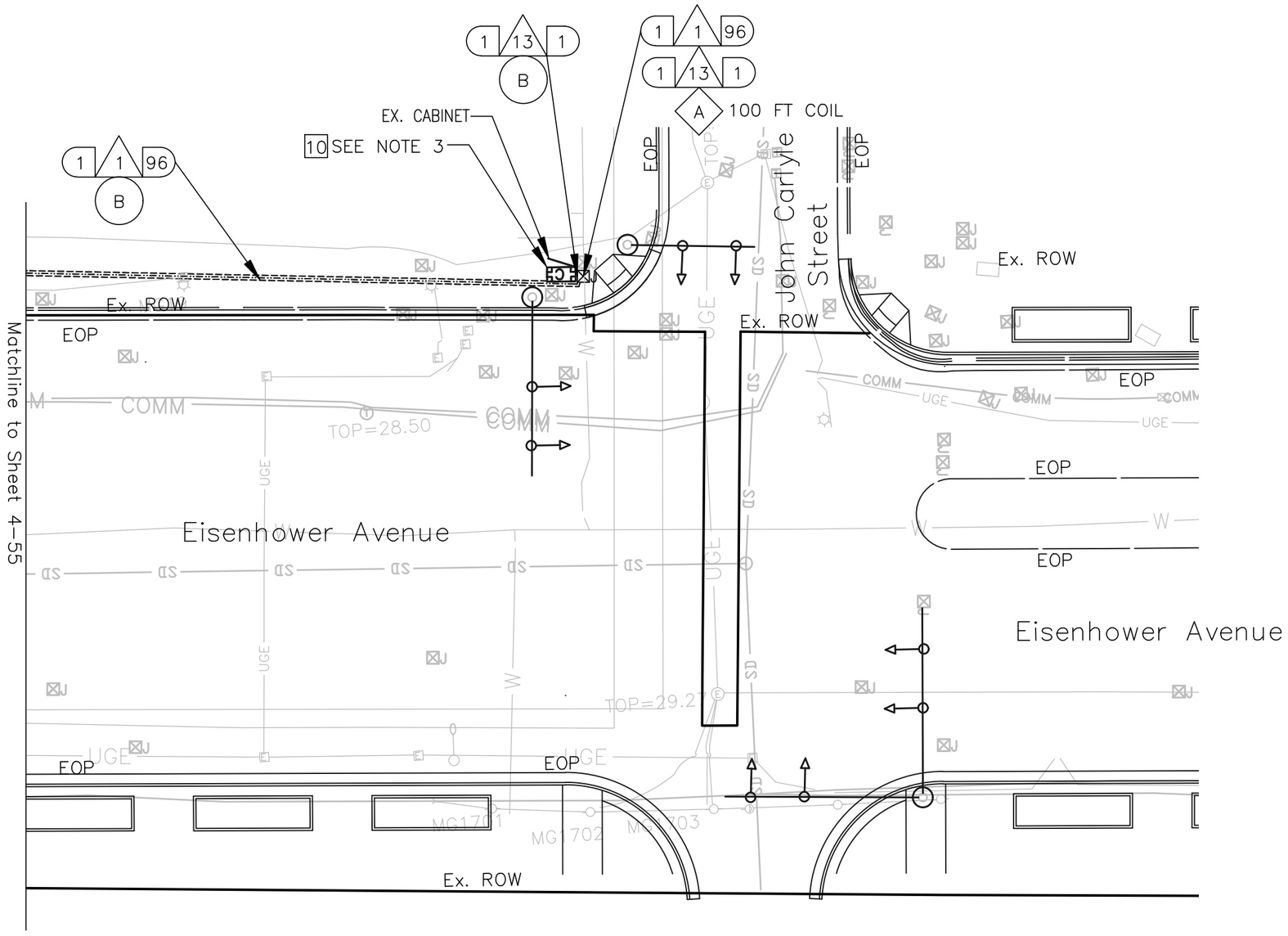
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET 4–55

SCALE 1" = 25'



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13. FURNISH & INSTALL PON DROP CABLE
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15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

A. EXISTING JUNCTION BOX
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
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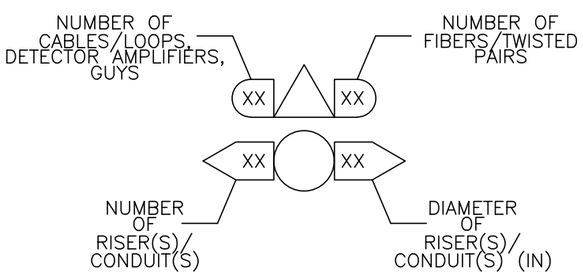
CONSTRUCTION NOTE SYMBOLOGY KEY



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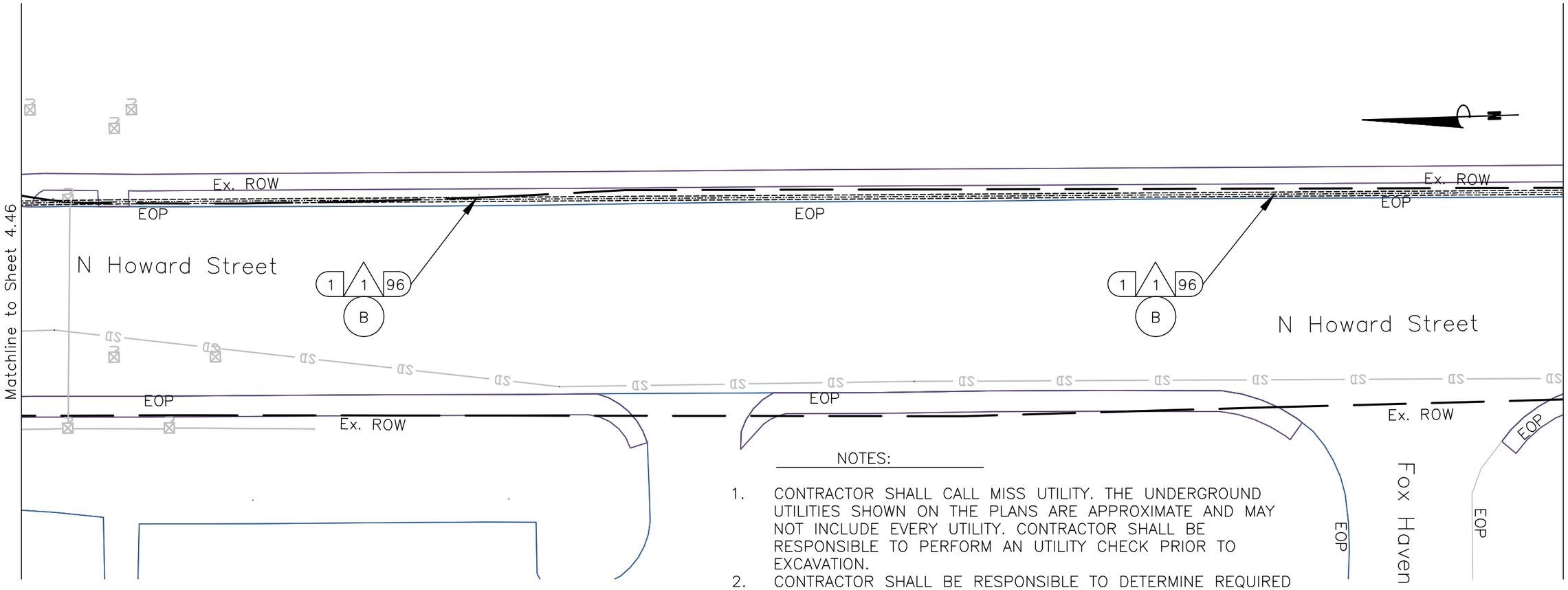
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVE FROM STOVALL ST TO JOHN CARLYLE ST INTERCONNECT PLANS

SHEET
4-56
SCALE 1" = 25'



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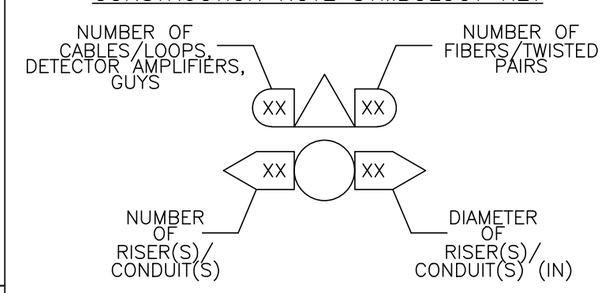

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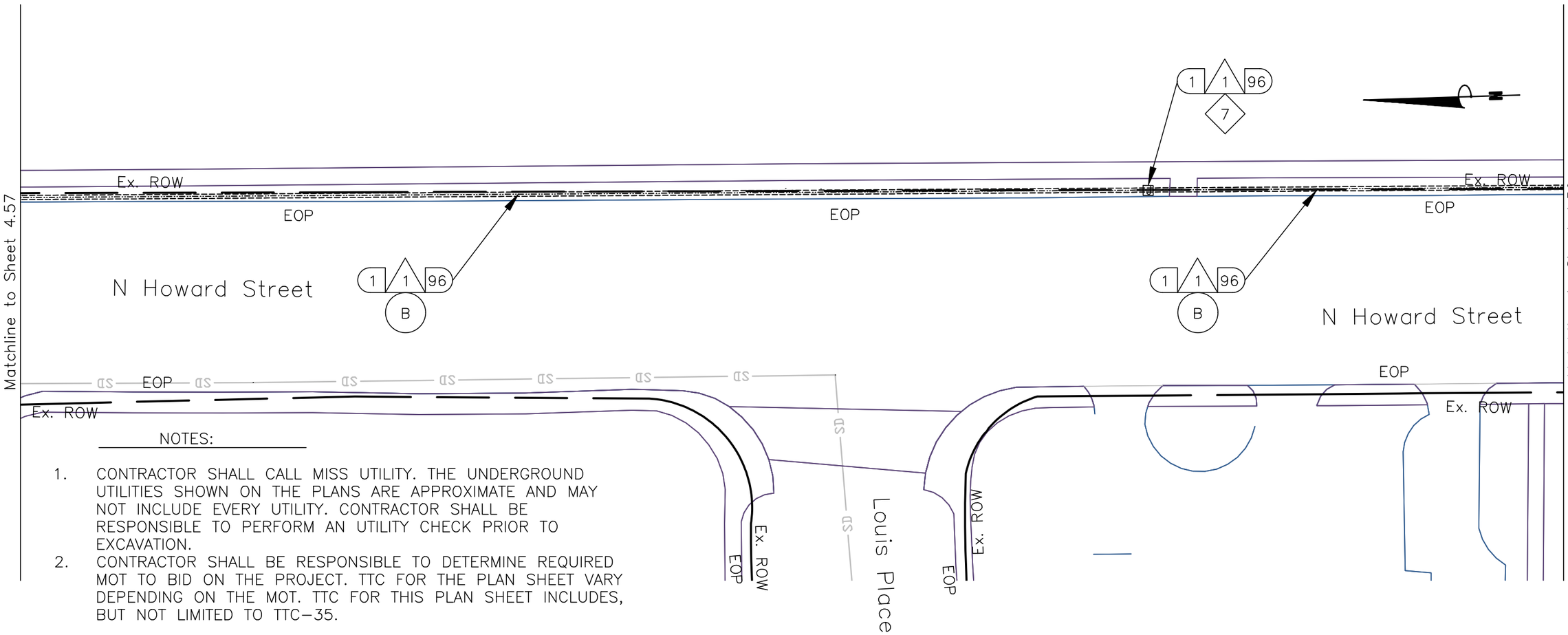
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET
4–57



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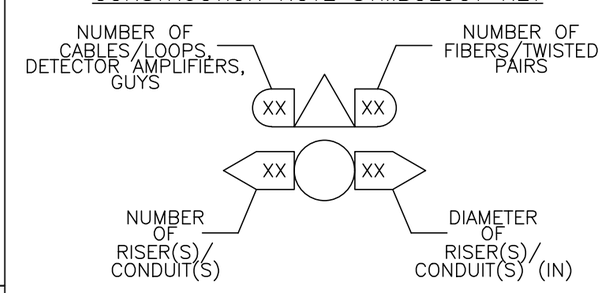

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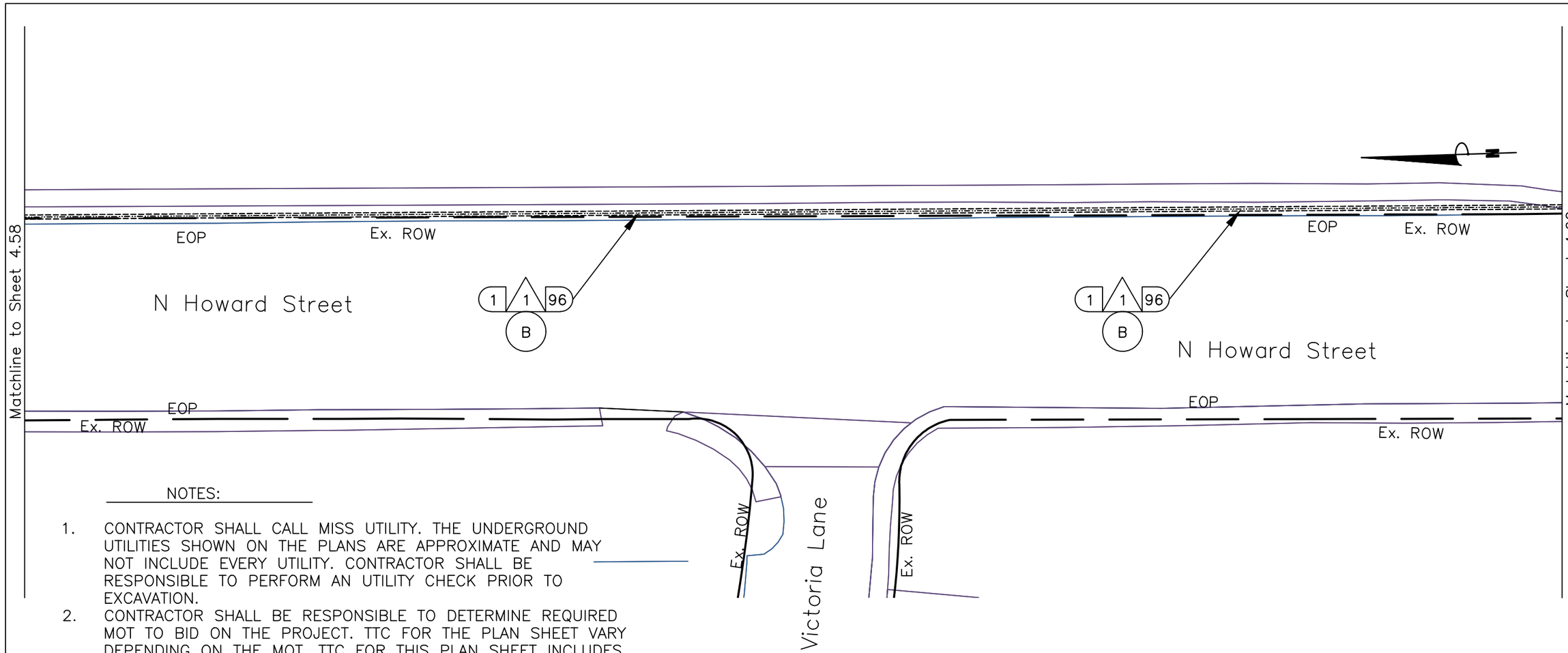
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET
4–58



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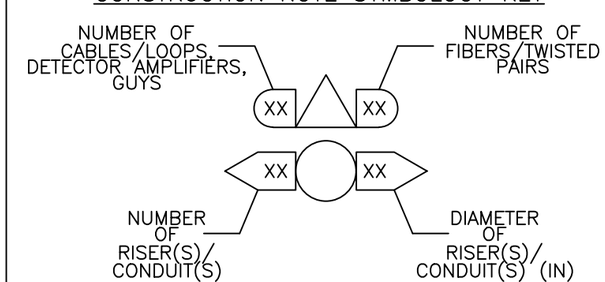

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HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET
4–59

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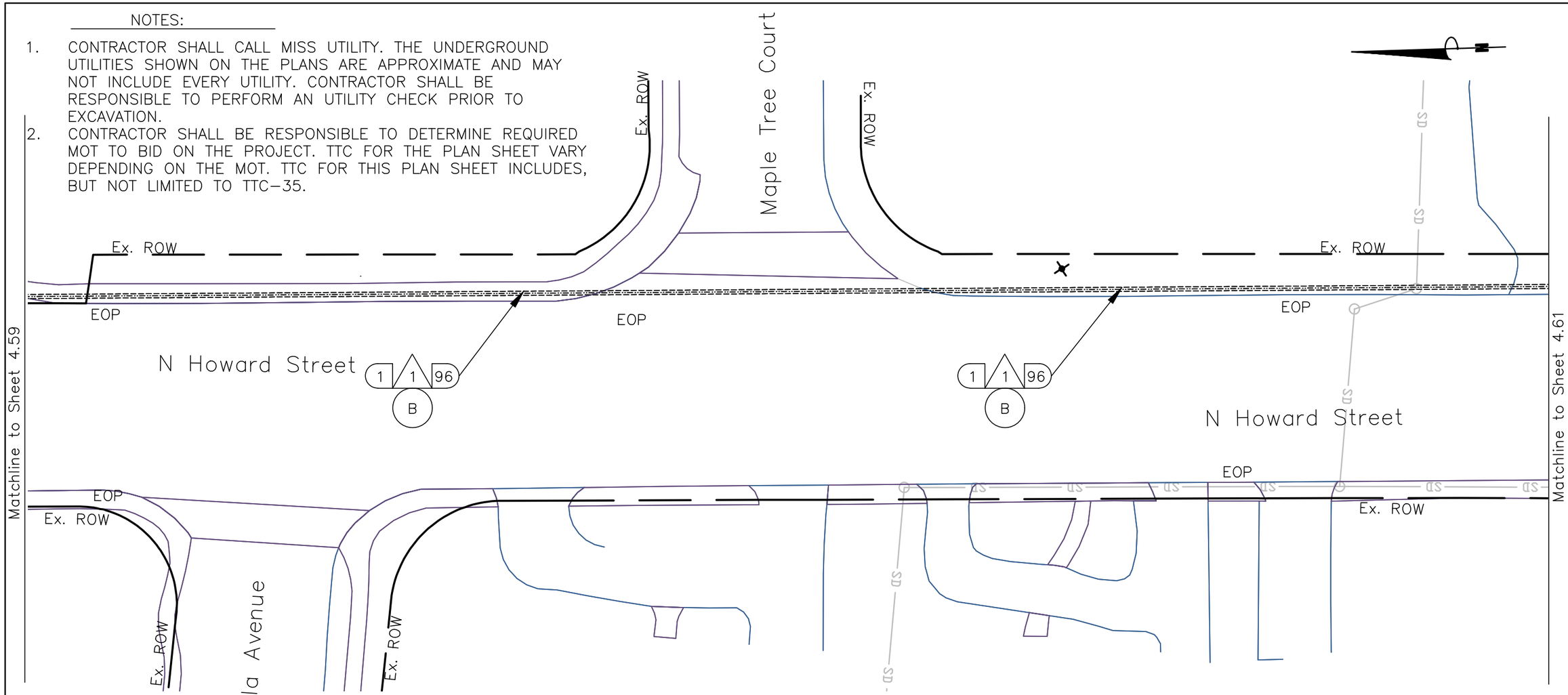

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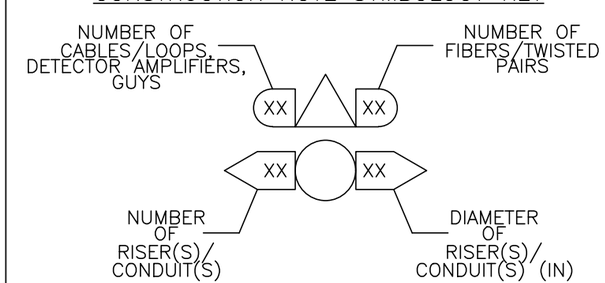

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET
4–60

KEY

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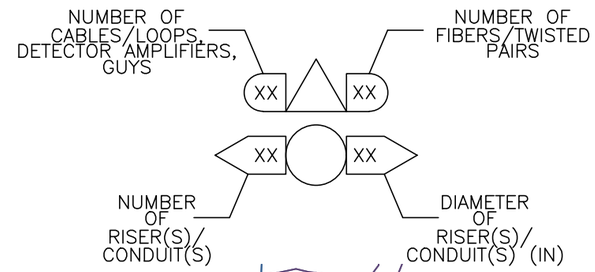
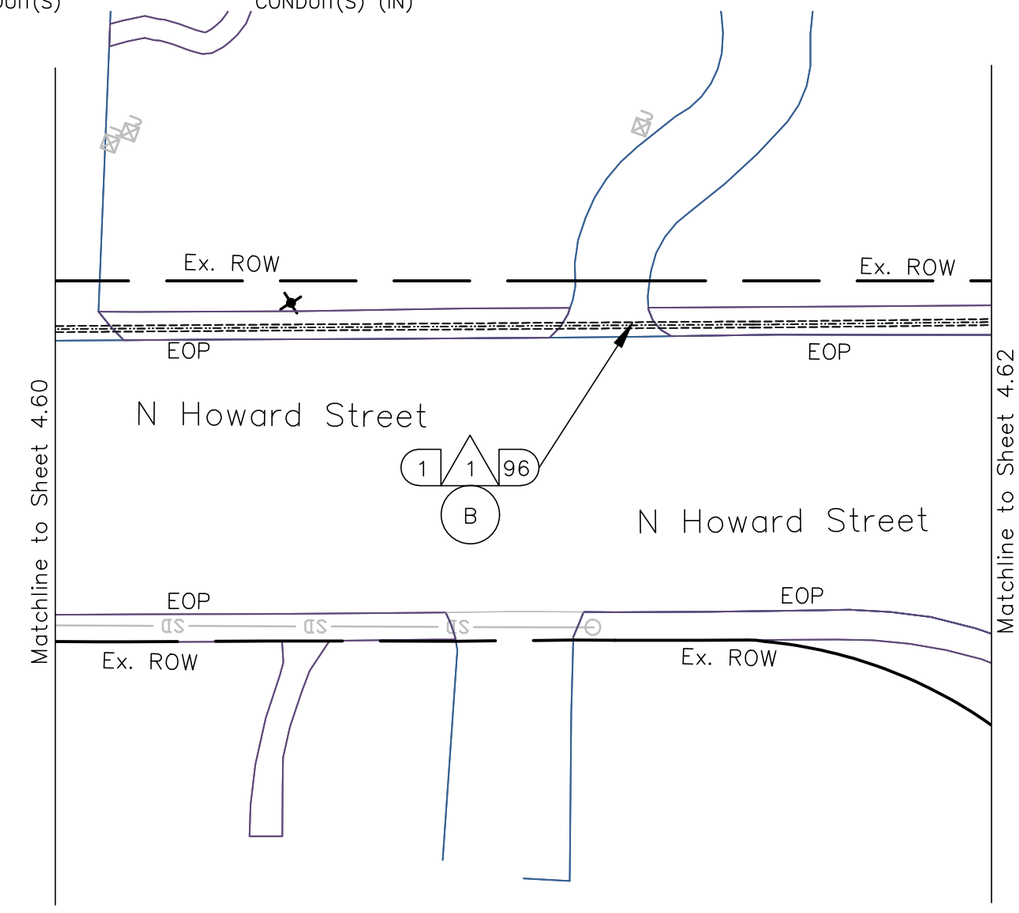
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

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2. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE REQUIRED MOT TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC-35.

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

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APPROVED BY: XX DATE: 7/24/20

HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET
4-61

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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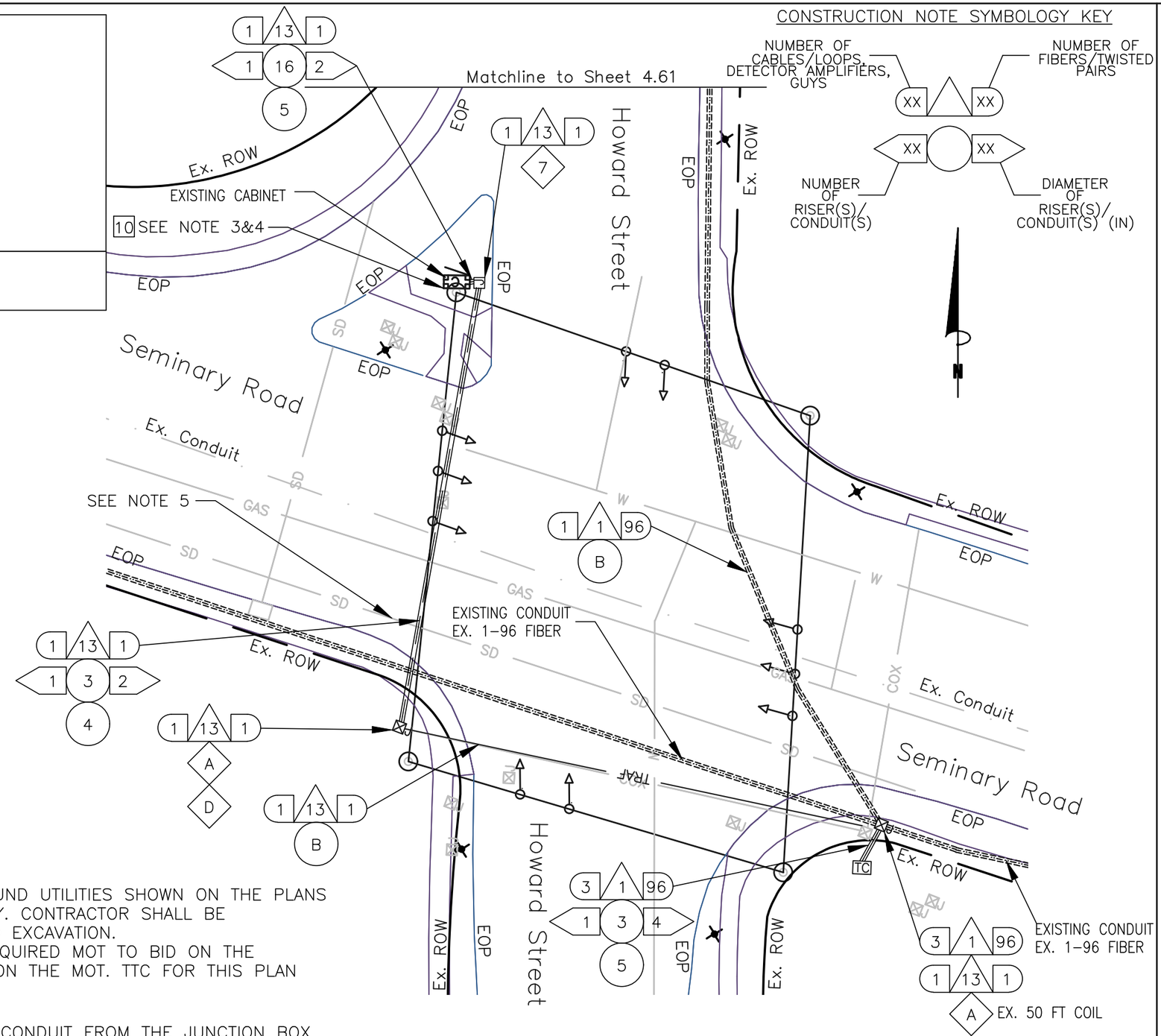
3. SEE CABINET DETAIL A (SHEET 6–59).
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



0 25'

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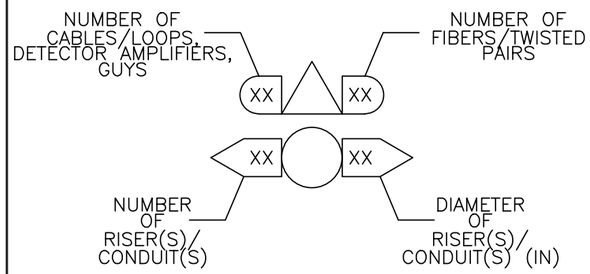
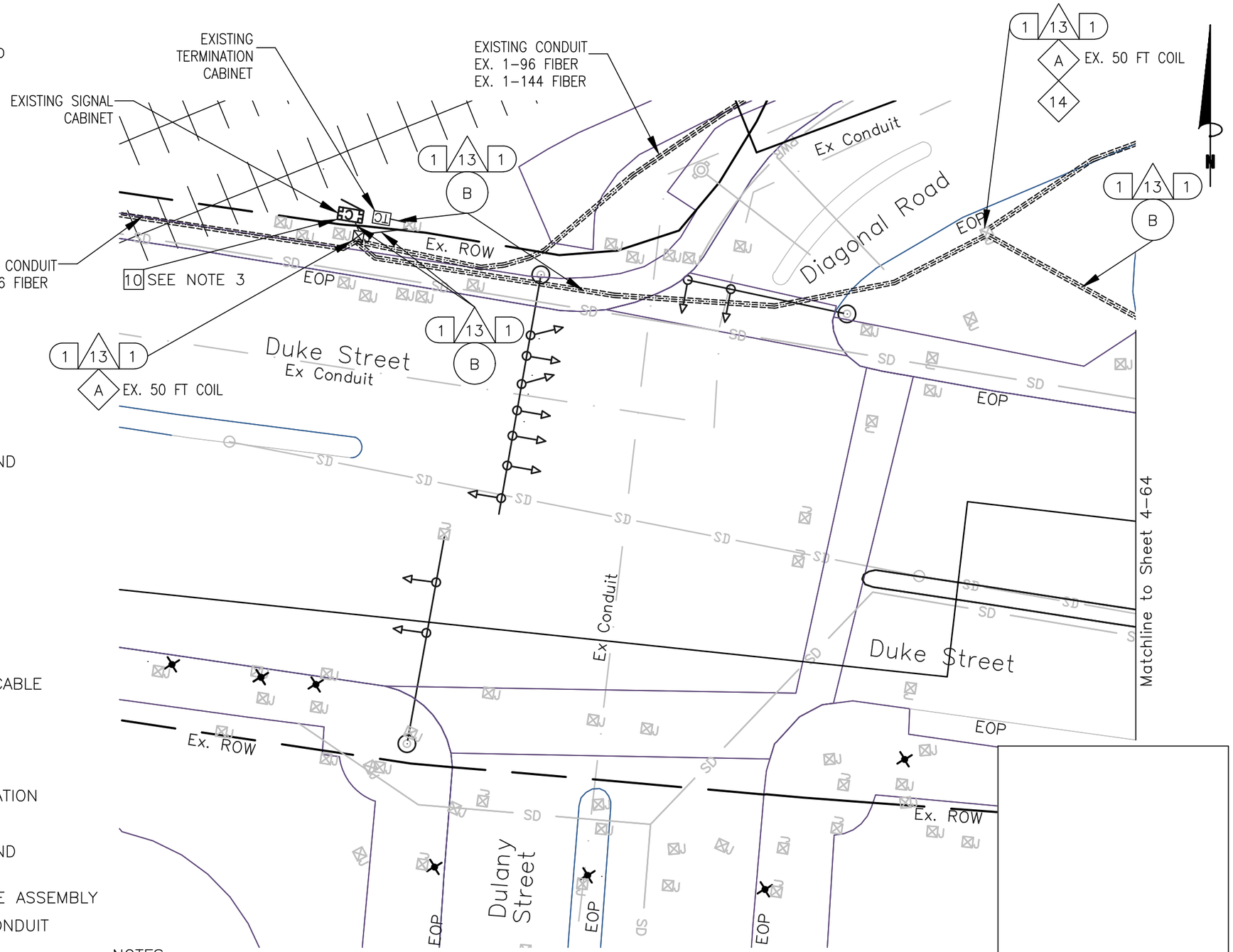
HOWARD STREET FROM BRADDOCK RD TO SEMINARY RD INTERCONNECT PLANS

SHEET 4–62

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





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- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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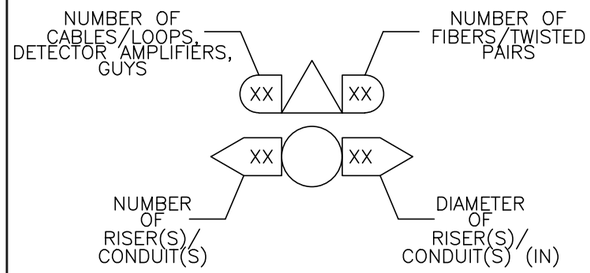
DUKE STREET FROM DIAGONAL TO JOHN CARLYLE STREET INTERCONNECT PLANS

SHEET
4-63
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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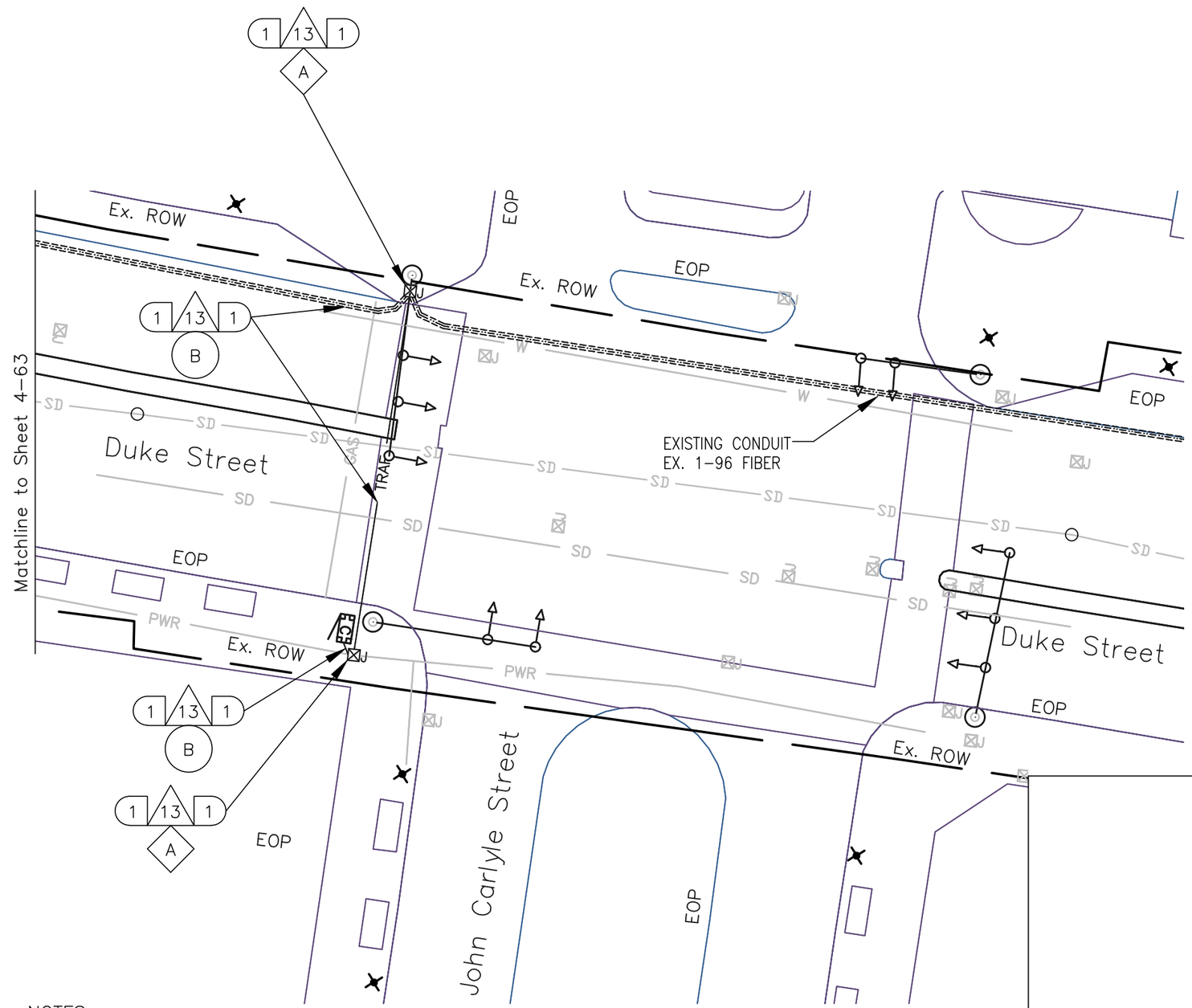

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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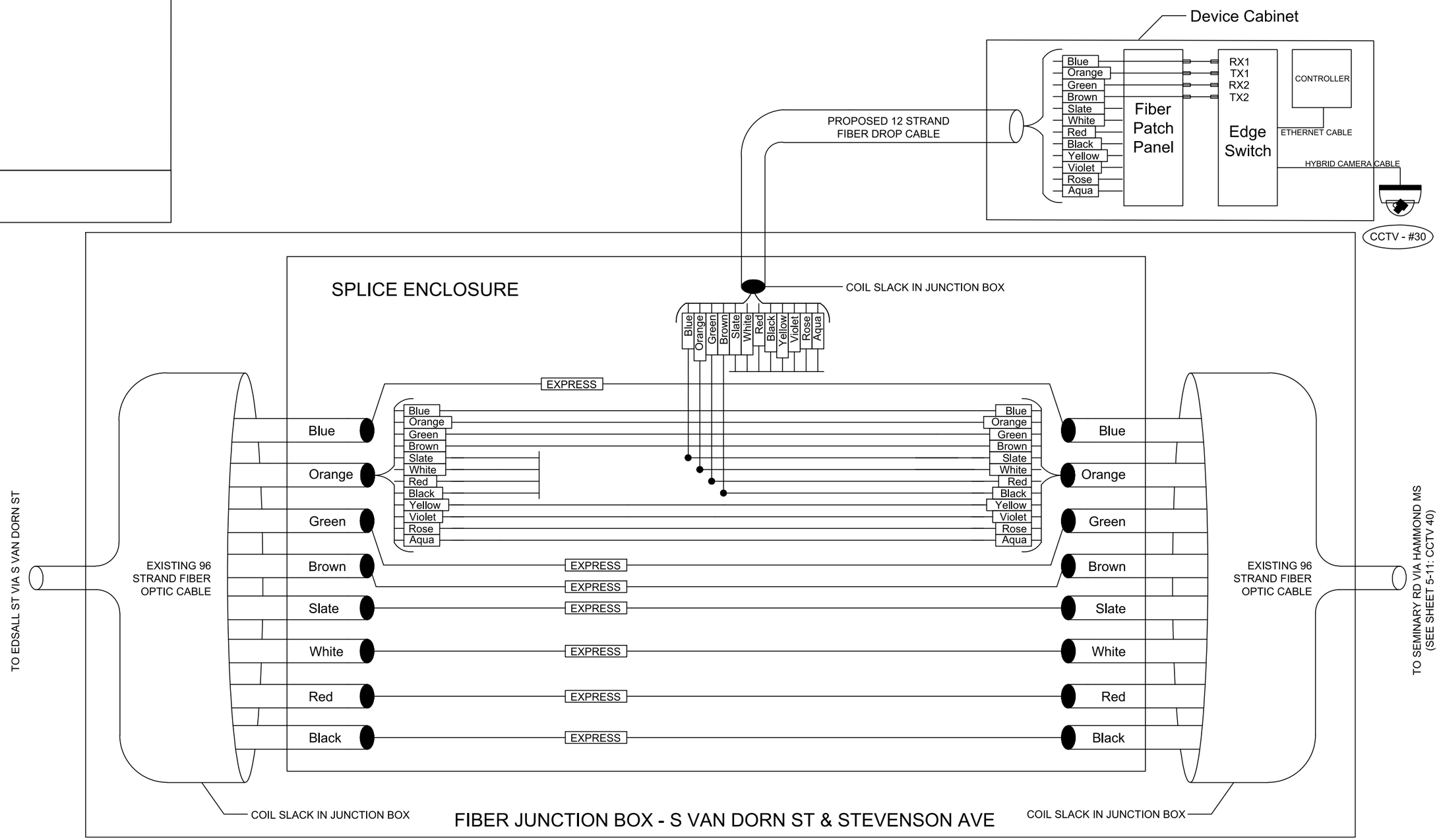
DUKE STREET FROM DIAGONAL TO JOHN CARLYLE STREET INTERCONNECT PLANS

SHEET
4-64
SCALE 1" = 25'



FIBER JUNCTION BOX - S VAN DORN ST & STEVENSON AVE

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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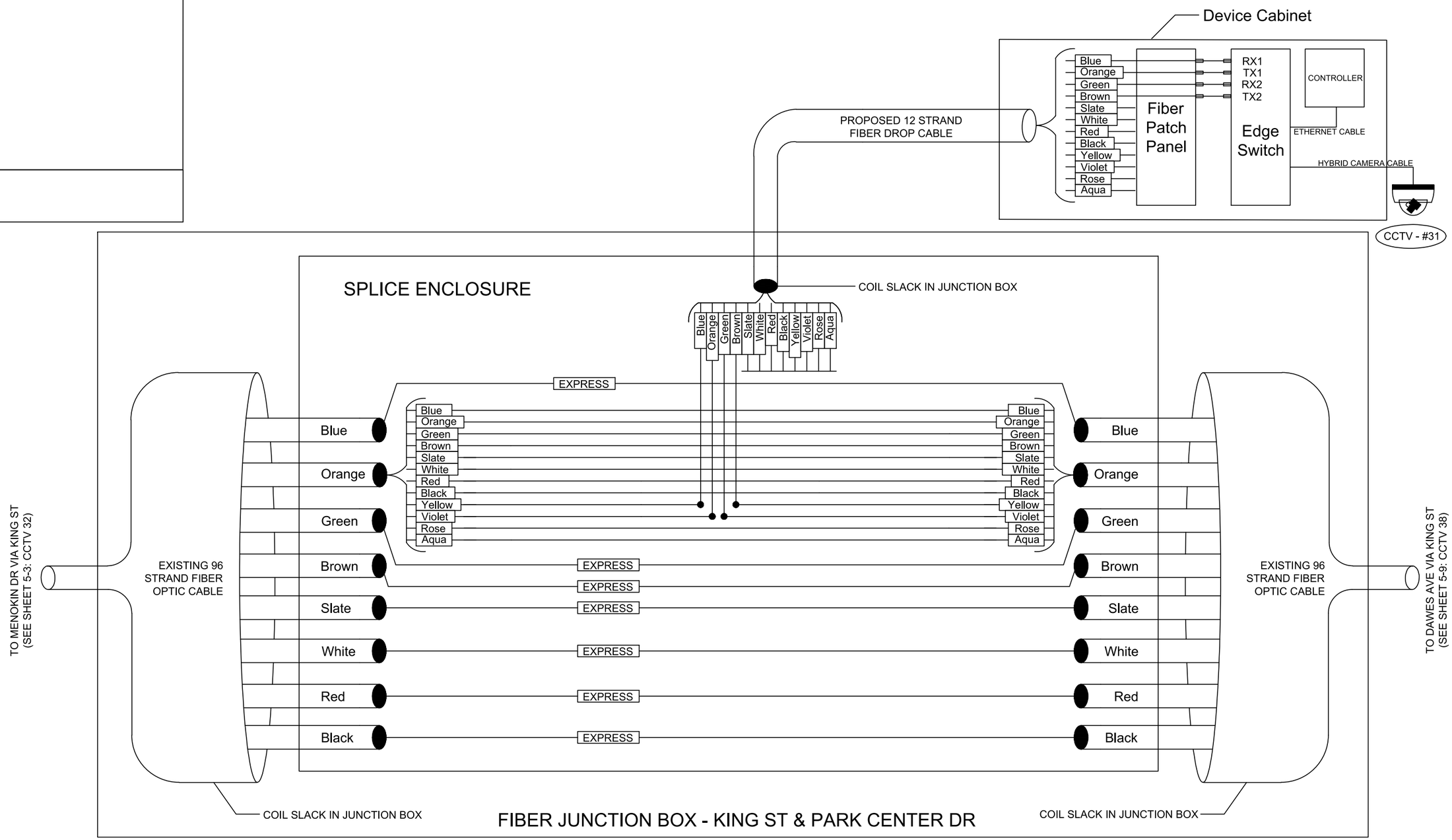
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
S VAN DORN ST AT STEVENSON AVE
CCTV #30

SHEET
5-1

SCALE N.T.S.



FIBER JUNCTION BOX - KING ST & PARK CENTER DR

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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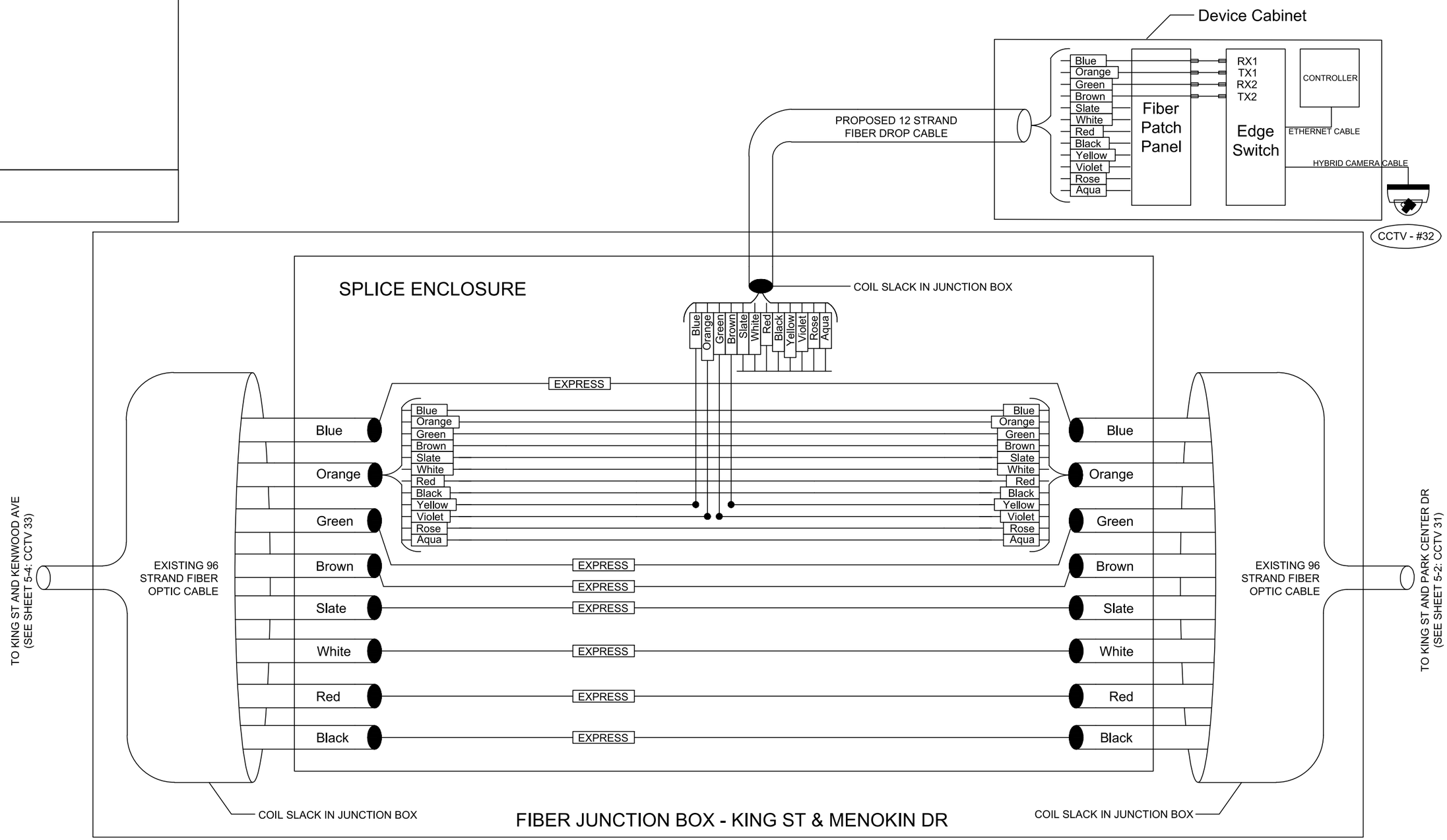
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST AT PARK CENTER DR
CCTV #31

SHEET
5-2
SCALE N.T.S.



NOTE:
REFER SHEET 8-53 FOR PASSIVE NETWORK SPLICE DIAGRAM AT KING ST & MENOKIN DR

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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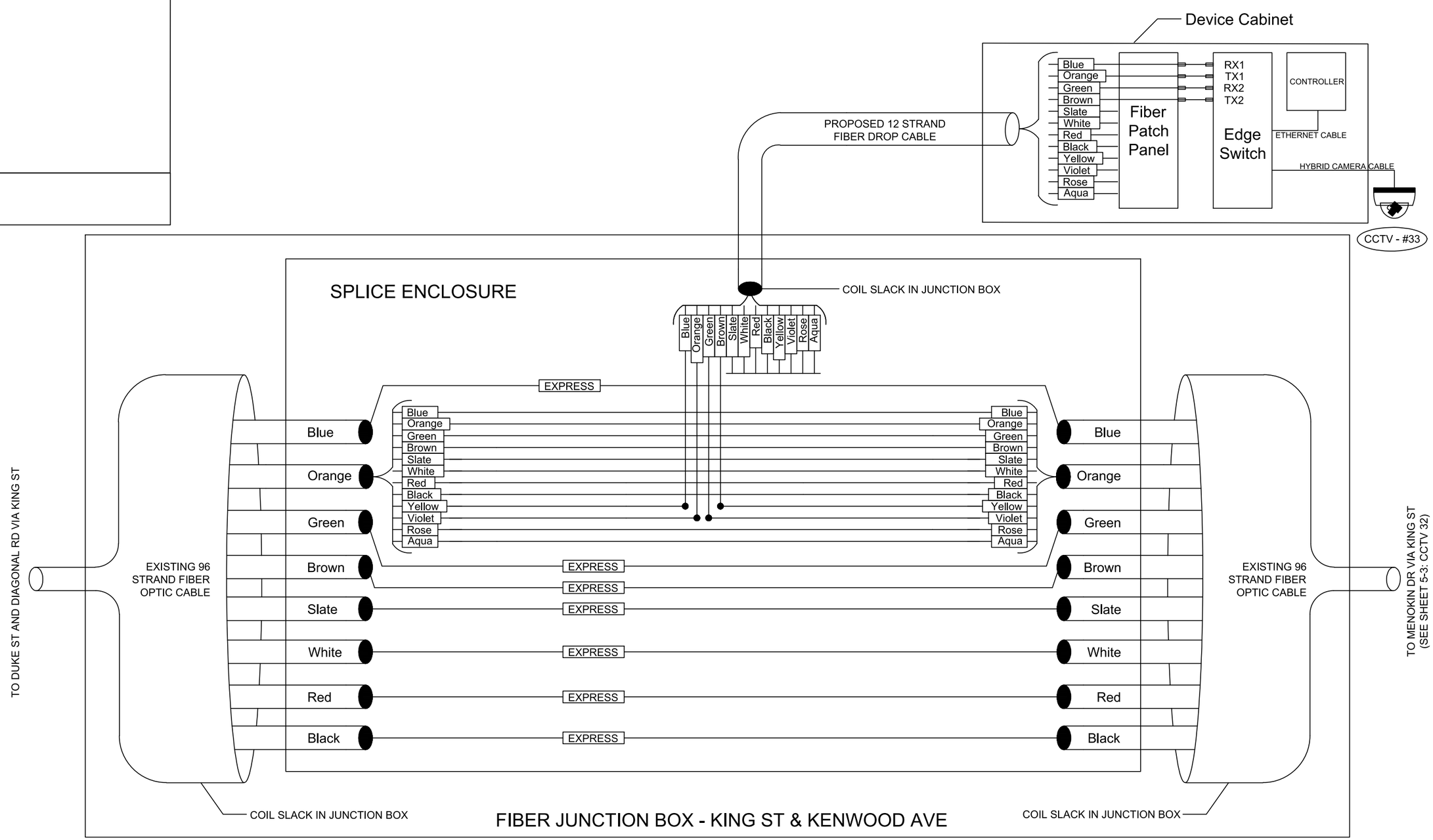
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST AT MENOKIN DR
CCTV #32

SHEET
5-3
SCALE N.T.S.



FIBER JUNCTION BOX - KING ST & KENWOOD AVE

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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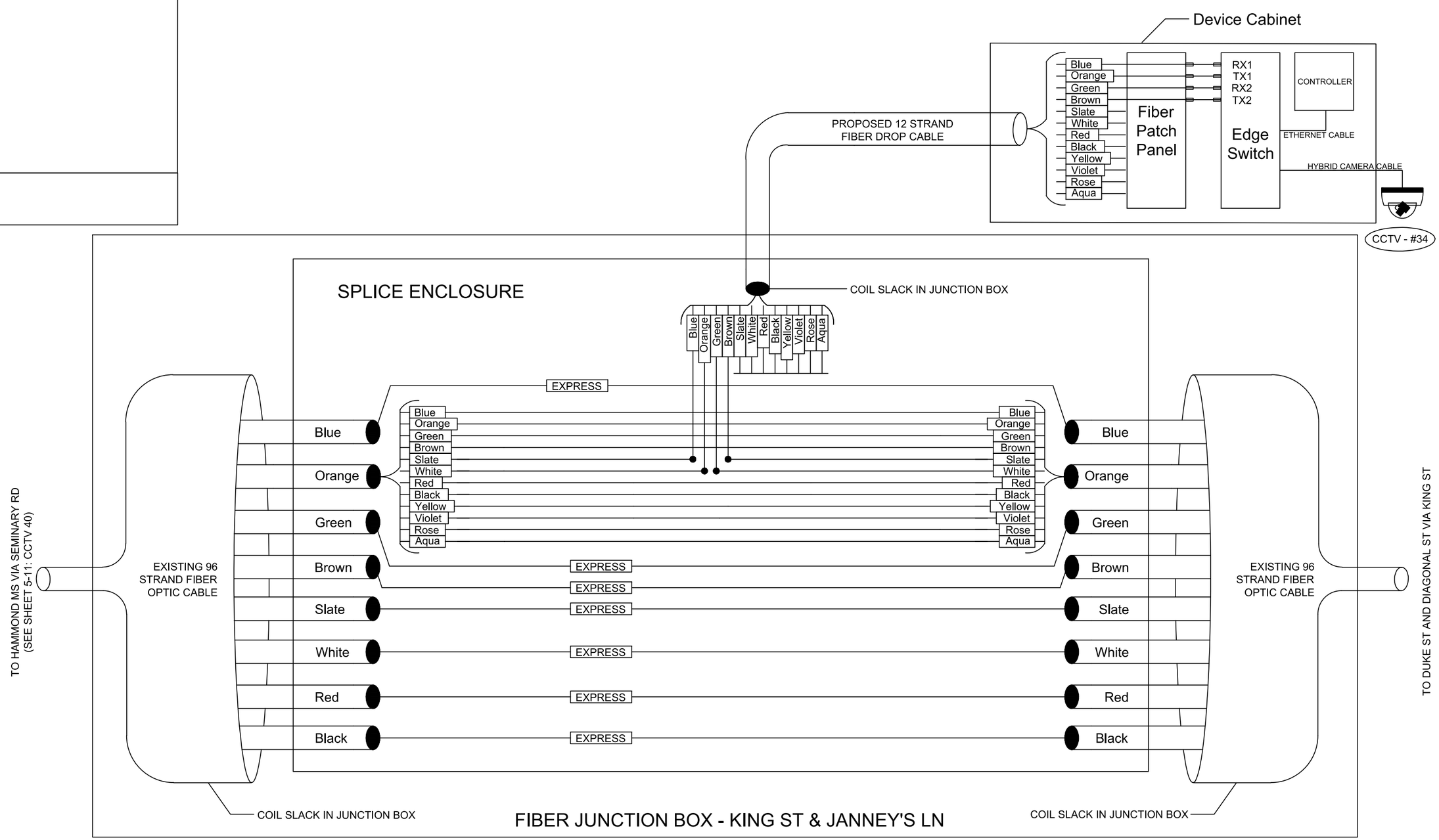
SPLICING DIAGRAM
KING ST AT KENWOOD AVE
CCTV #33

SHEET
5-4
SCALE N.T.S.



FIBER JUNCTION BOX - KING ST & JANNEY'S LN

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

NOTE:
REFER SHEET 8-52 FOR PASSIVE NETWORK SPLICE DIAGRAM AT KING ST & JANNEY'S LN

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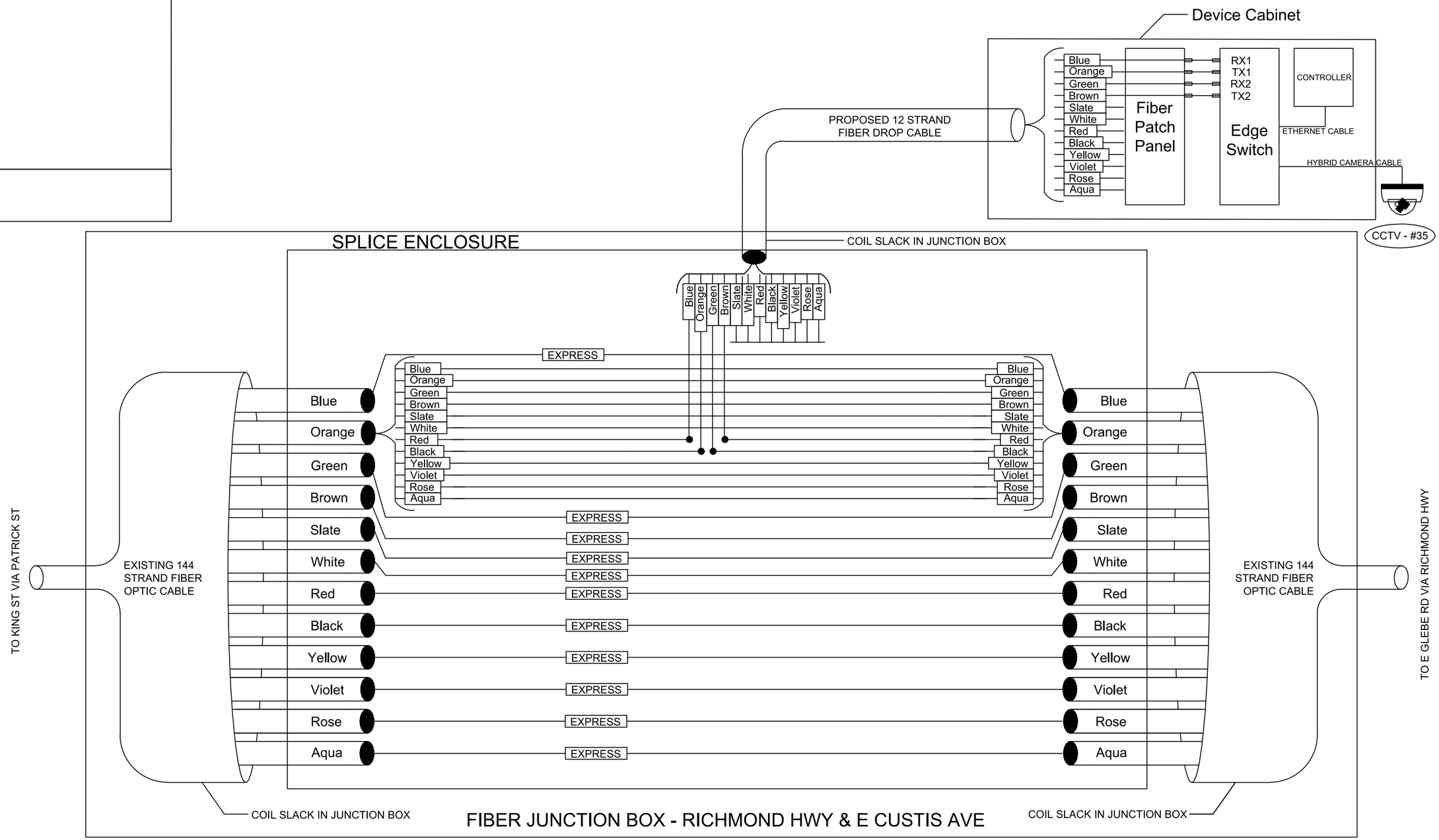
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST AT JANNEY'S LN
CCTV #34

SHEET
5-5
SCALE N.T.S.



LEGEND

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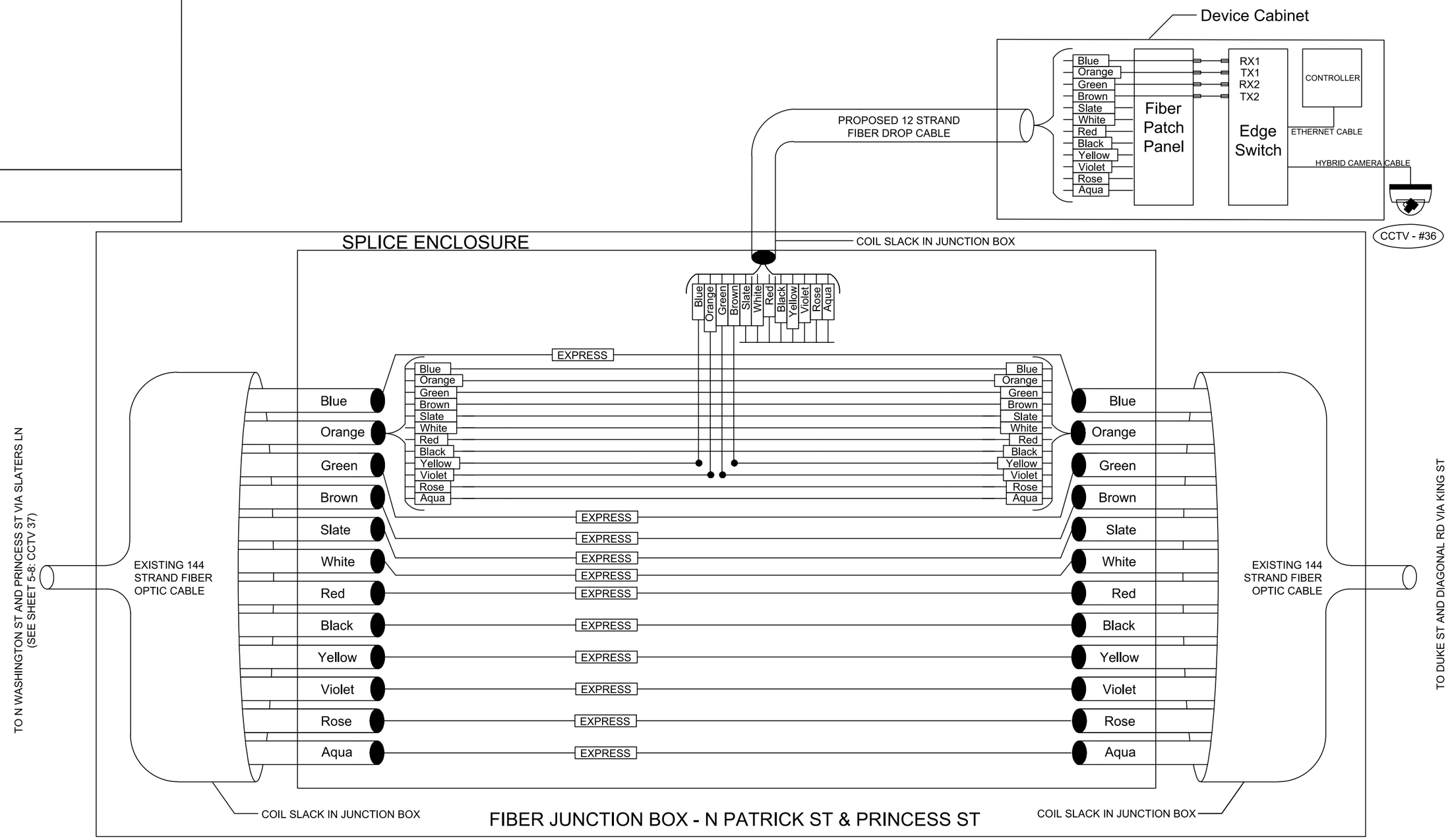
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
RICHMOND HWY AT E CUSTIS AVE
CCTV #35

SHEET
5-6

SCALE N.T.S.



LEGEND

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- Fiber Tube
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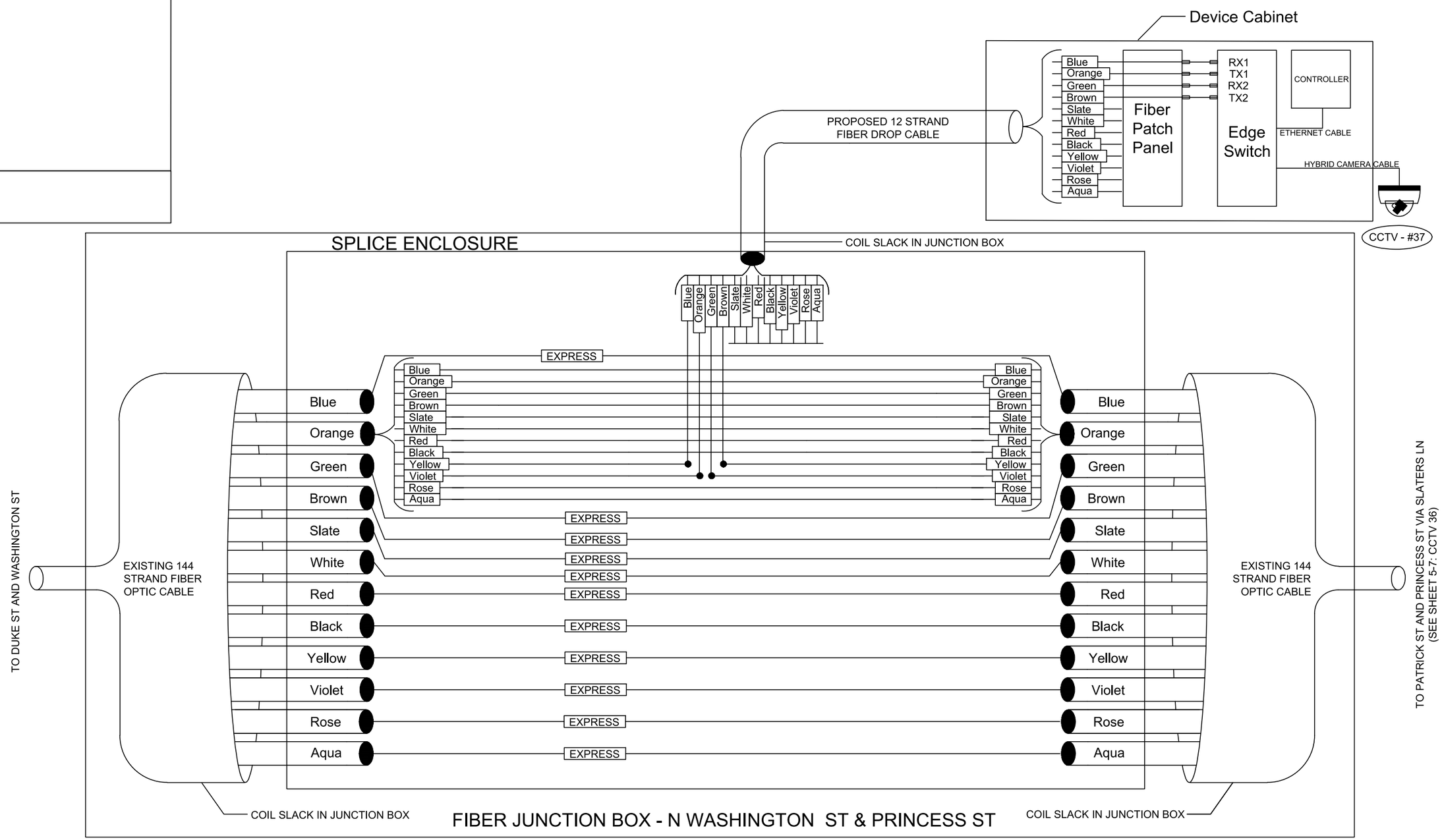
SPLICING DIAGRAM
N PATRICK ST AT PRINCESS ST
CCTV #36

SHEET 5-7

SCALE N.T.S.



LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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301 KING STREET
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REVISIONS

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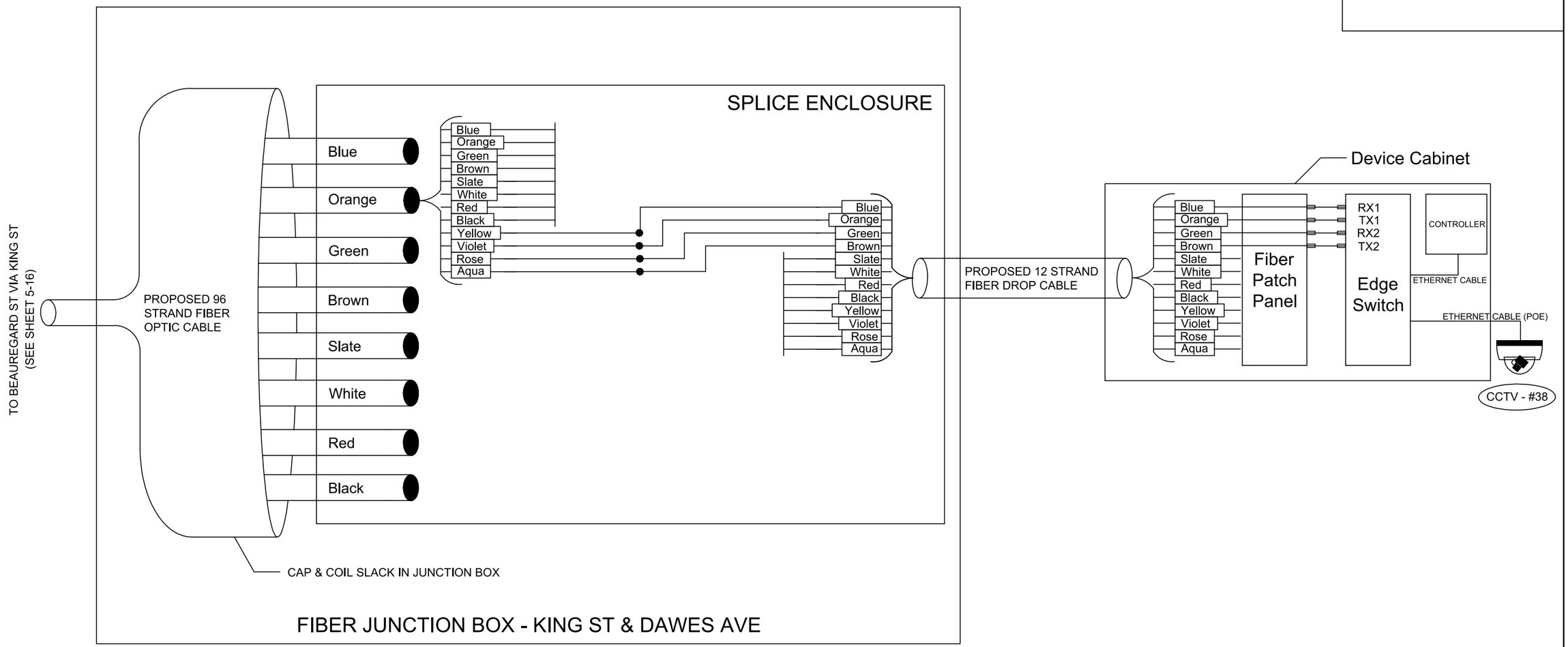
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
N WASHINGTON ST AT PRINCESS ST
CCTV #37

SHEET 5-8

SCALE N.T.S.



LEGEND

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- Fiber Tube
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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST AT DAWES AVE
CCTV #38

SHEET
5-9

SCALE N.T.S.

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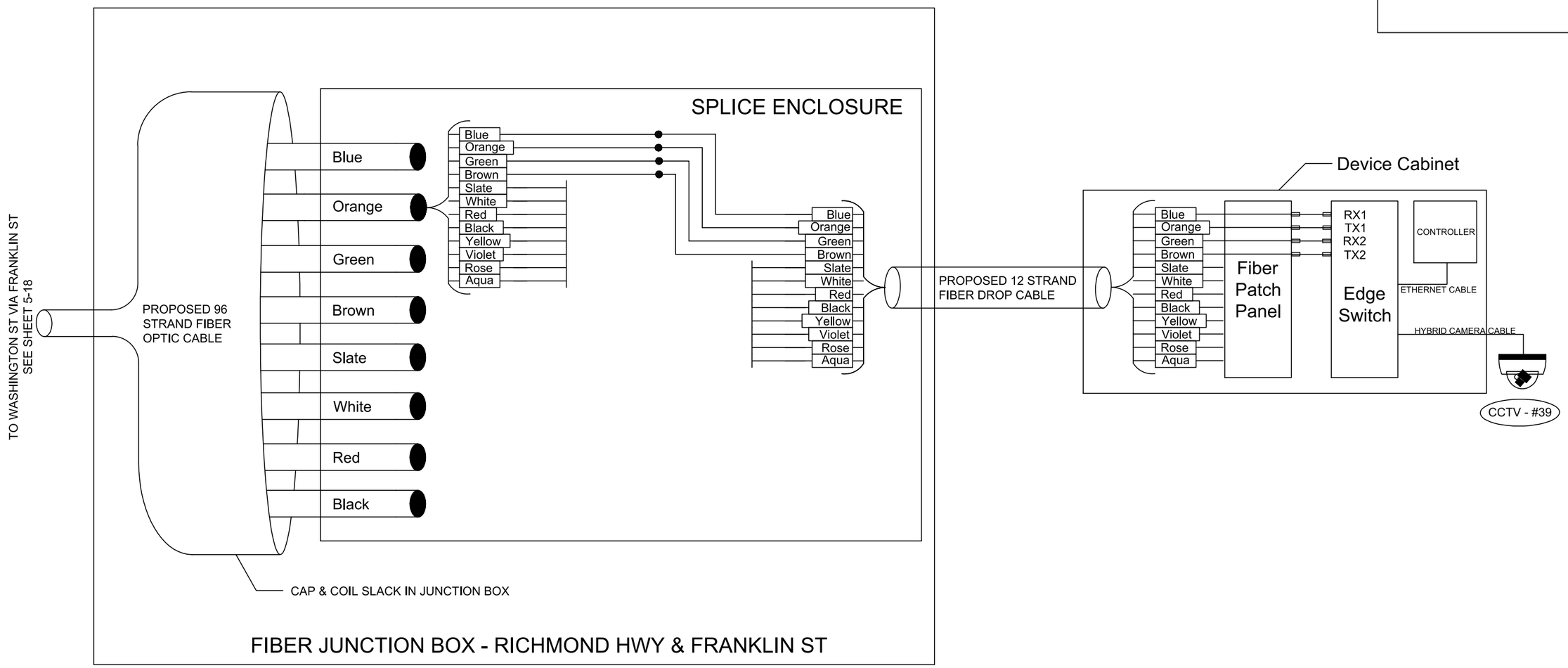

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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SPLICING DIAGRAM
RICHMOND HWY & FRANKLIN ST
CCTV #39

SHEET
5–10

SCALE N.T.S.

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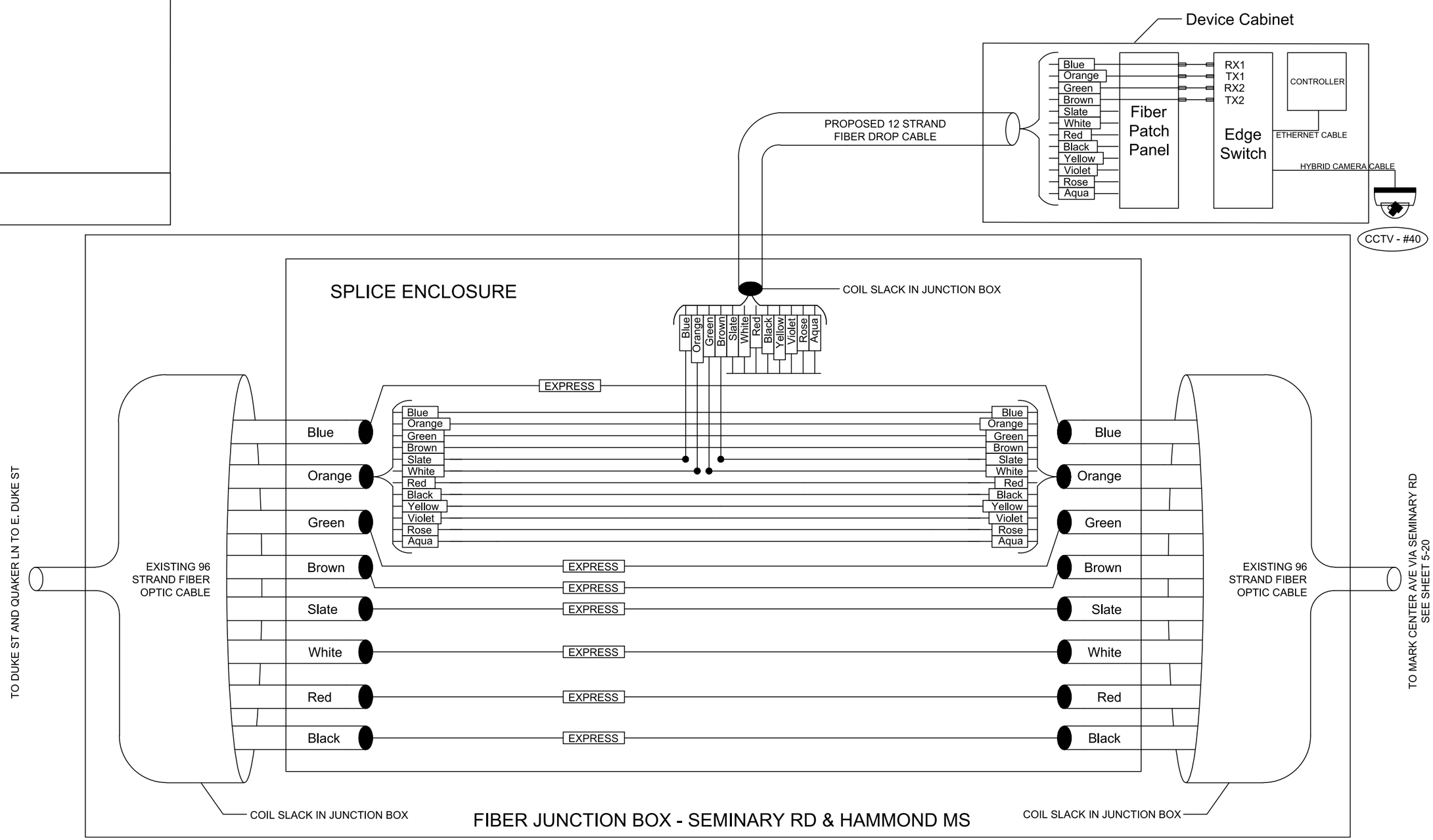

FIBER JUNCTION BOX - SEMINARY RD & HAMMOND MS

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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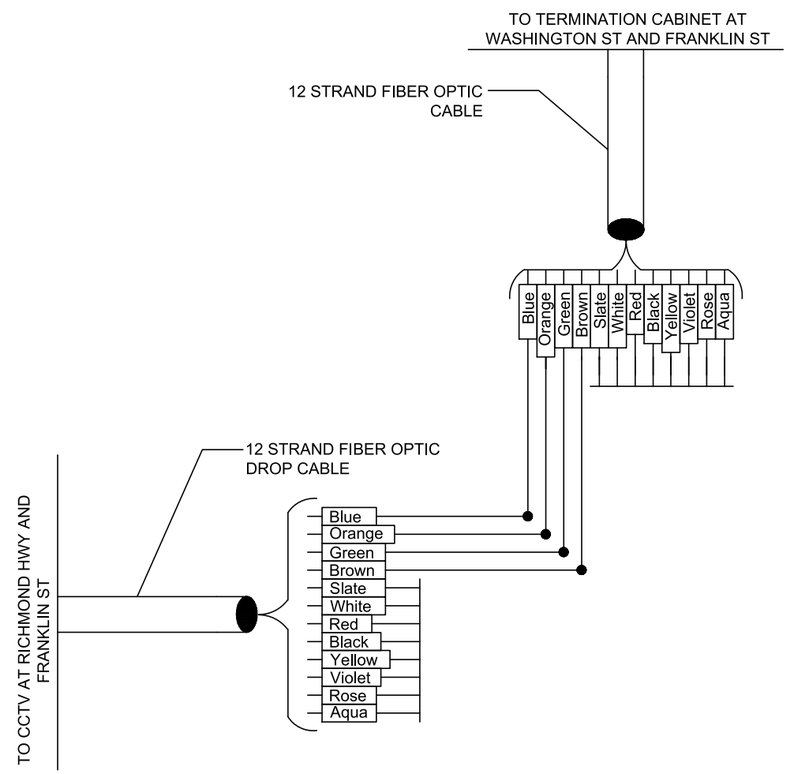
SPLICING DIAGRAM
SEMINARY RD AT HAMMOND MS
CCTV #40

SHEET
5-11
SCALE N.T.S.



LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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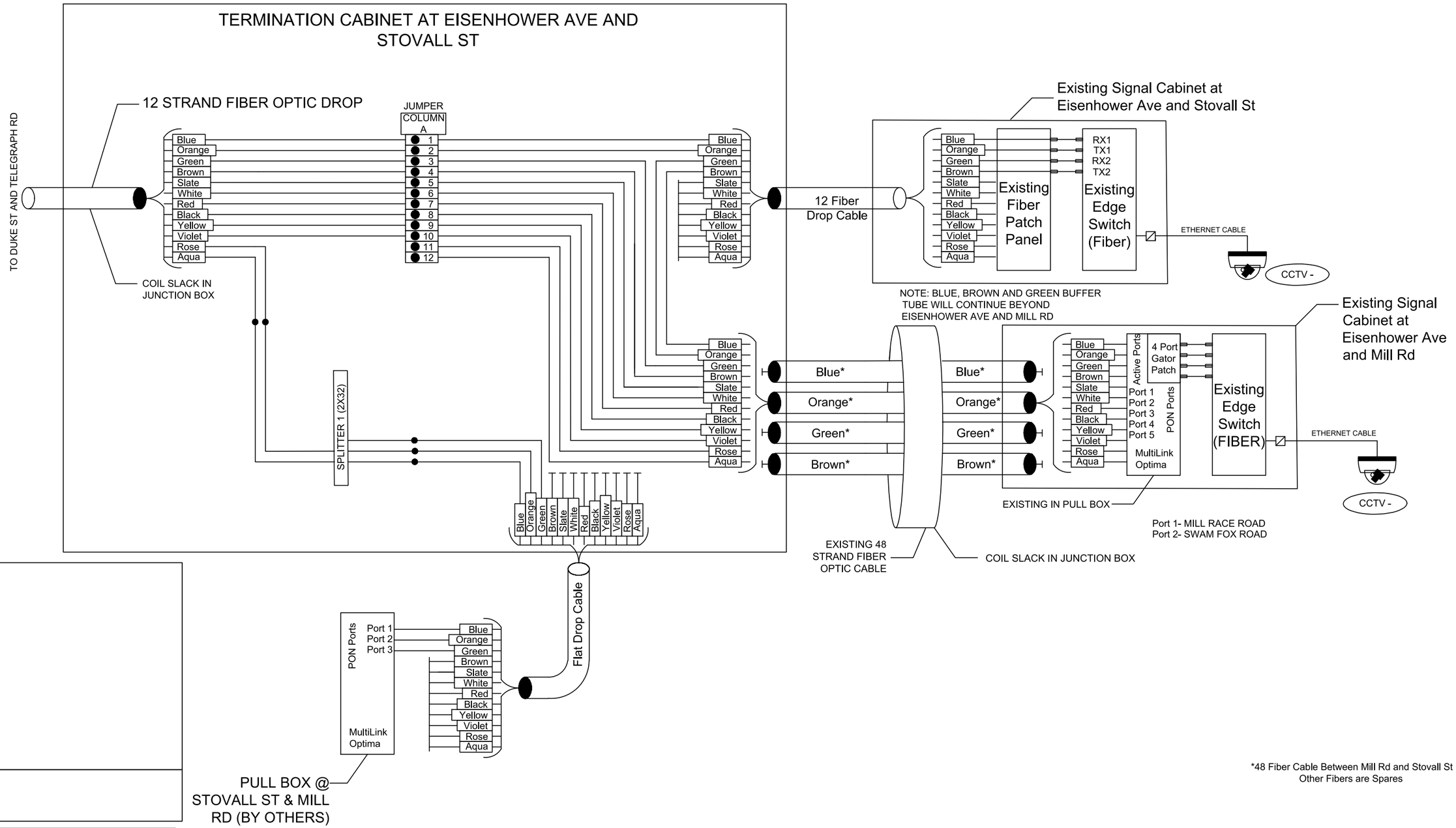
ITS DEVICE DROP SPLICING
RICHMOND HWY AND FRANKLIN ST

SHEET
5-12

SCALE N.T.S.



*48 Fiber Cable Between Mill Rd and Stovall St
Other Fibers are Spares

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

NOTE:
REFER SHEET 8-26 FOR PASSIVE NETWORK SPLICE DIAGRAM AT STOVALL ST & EISENHOWER AVE

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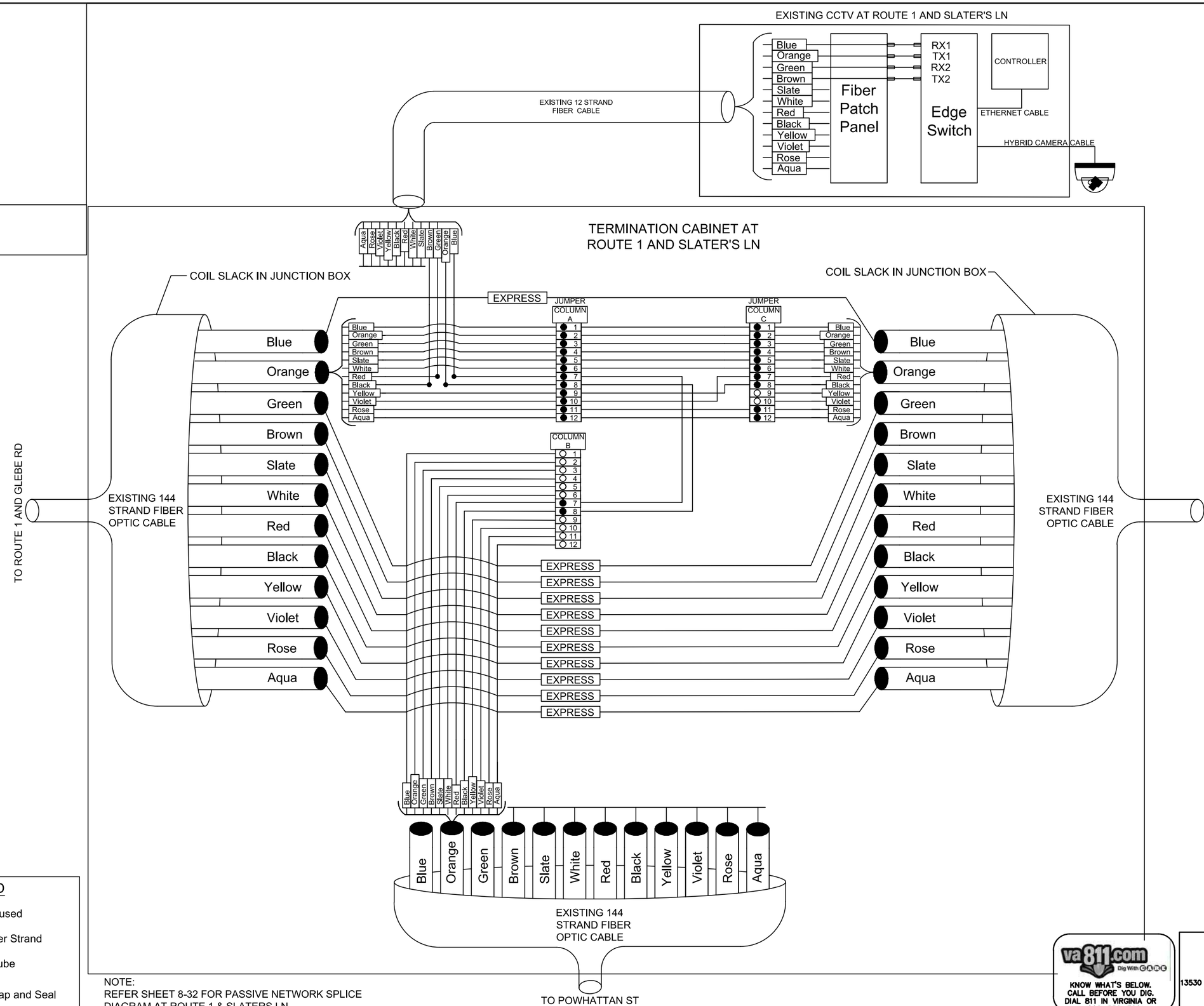
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
EISENHOWER AVE AND STOVALL ST

SHEET 5-13
SCALE N.T.S.



LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

NOTE:
REFER SHEET 8-32 FOR PASSIVE NETWORK SPLICE DIAGRAM AT ROUTE 1 & SLATERS LN

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM RICHMOND HWY (ROUTE 1) AND SLATER'S LN

SHEET 5-14

SCALE N.T.S.

EXISTING TERMINATION CABINET
NO CHANGES TO ACTIVE NETWORK SPLICING

NOTE:
REFER SHEET 8-56 FOR PASSIVE NETWORK SPLICE DIAGRAM AT N BEAUREGARD ST & BRADDOCK RD

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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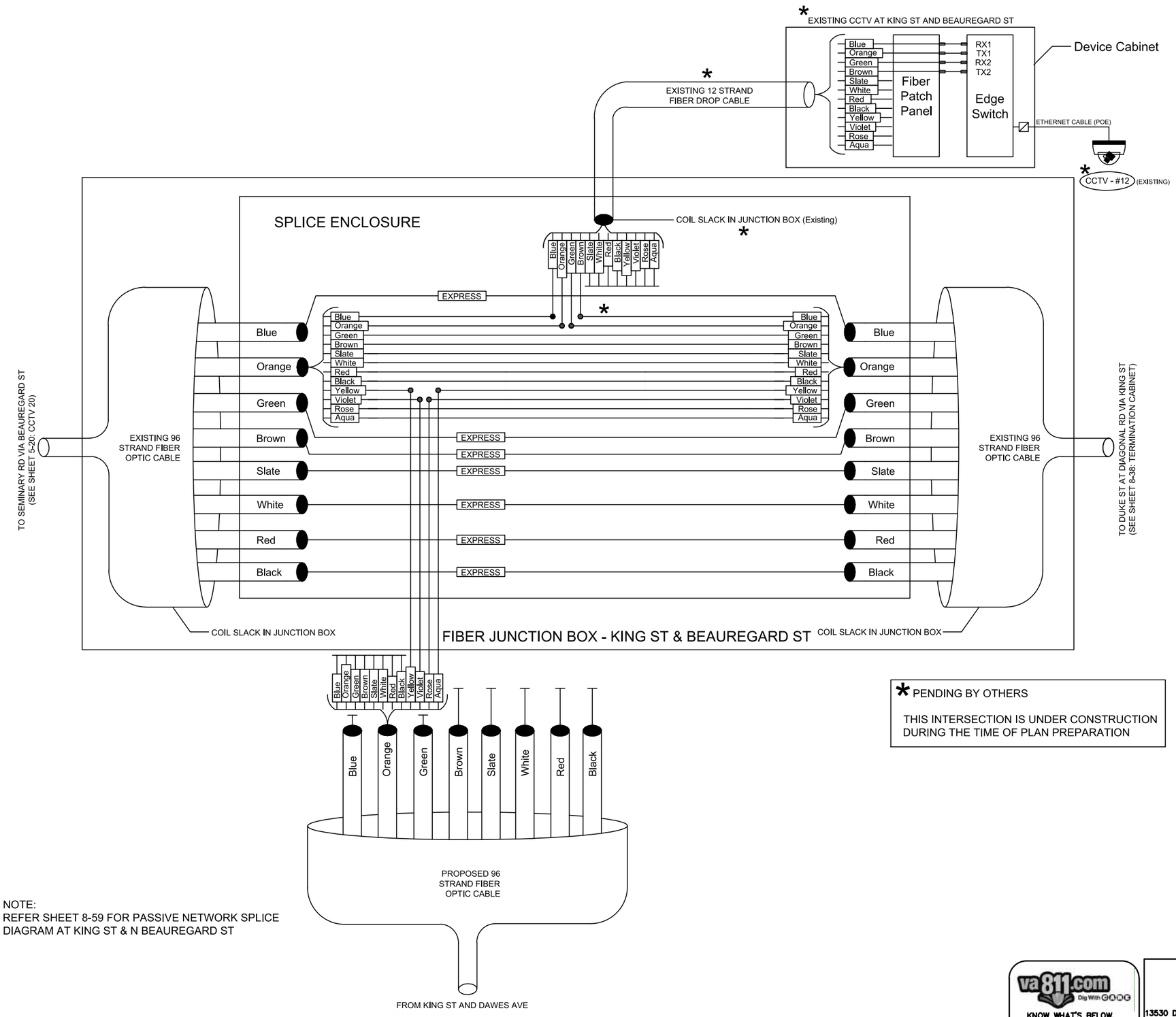
SPLICING DIAGRAM
BEAUREGARD ST AND BRADDOCK RD
TERMINATION CABINET

SHEET
5-15
SCALE N.T.S.



* PENDING BY OTHERS

THIS INTERSECTION IS UNDER CONSTRUCTION DURING THE TIME OF PLAN PREPARATION

NOTE:
REFER SHEET 8-59 FOR PASSIVE NETWORK SPLICE DIAGRAM AT KING ST & N BEAUREGARD ST

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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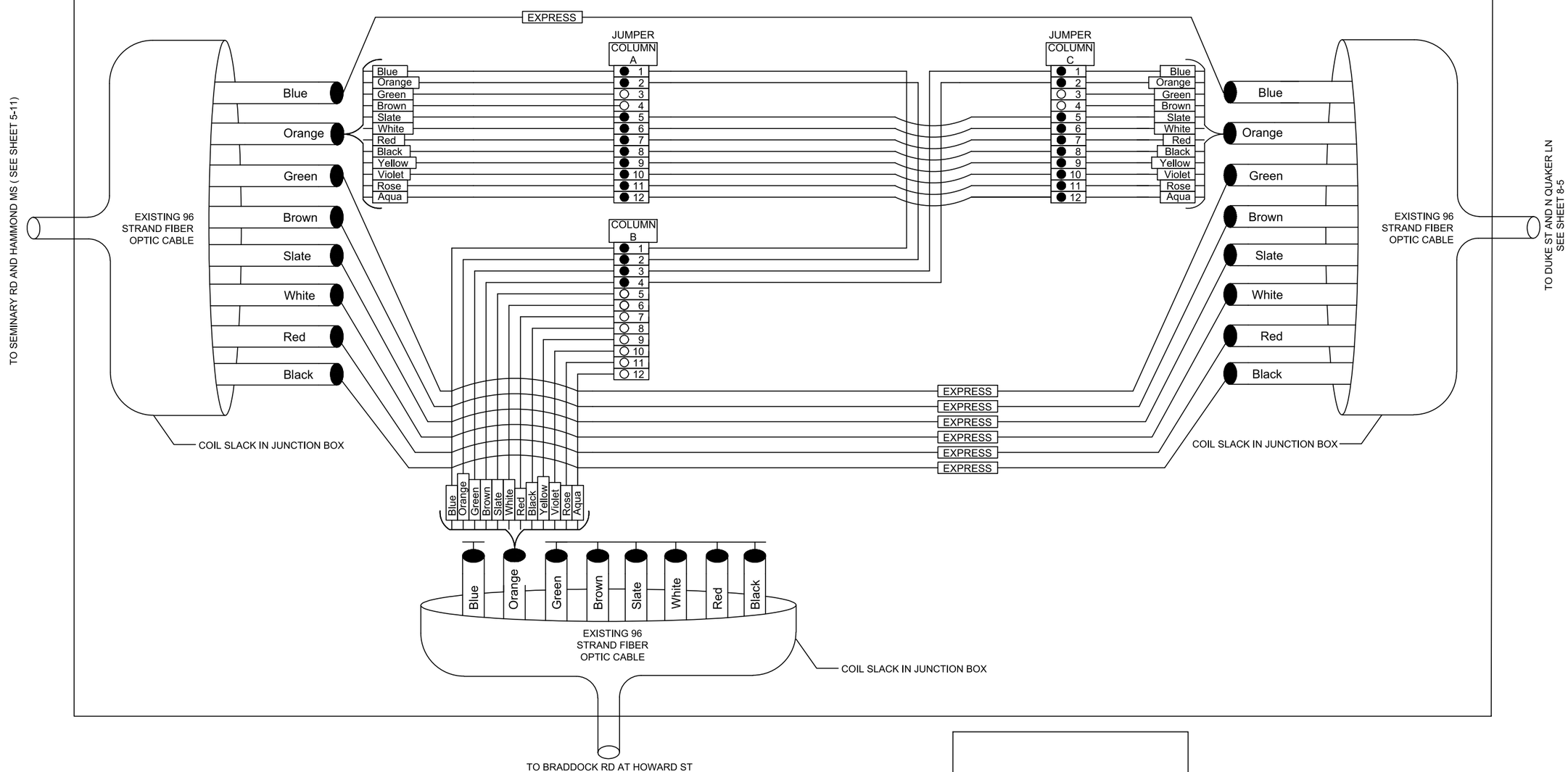
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST AND BEAUREGARD ST
SPLICE ENCLOSURE

SHEET
5-16

SCALE N.T.S.

TERMINATION CABINET AT SEMINARY RD AND HOWARD ST



LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

NOTE:
REFER SHEET 8-65 FOR PASSIVE NETWORK SPLICE DIAGRAM AT N HOWARD ST & SEMINARY RD

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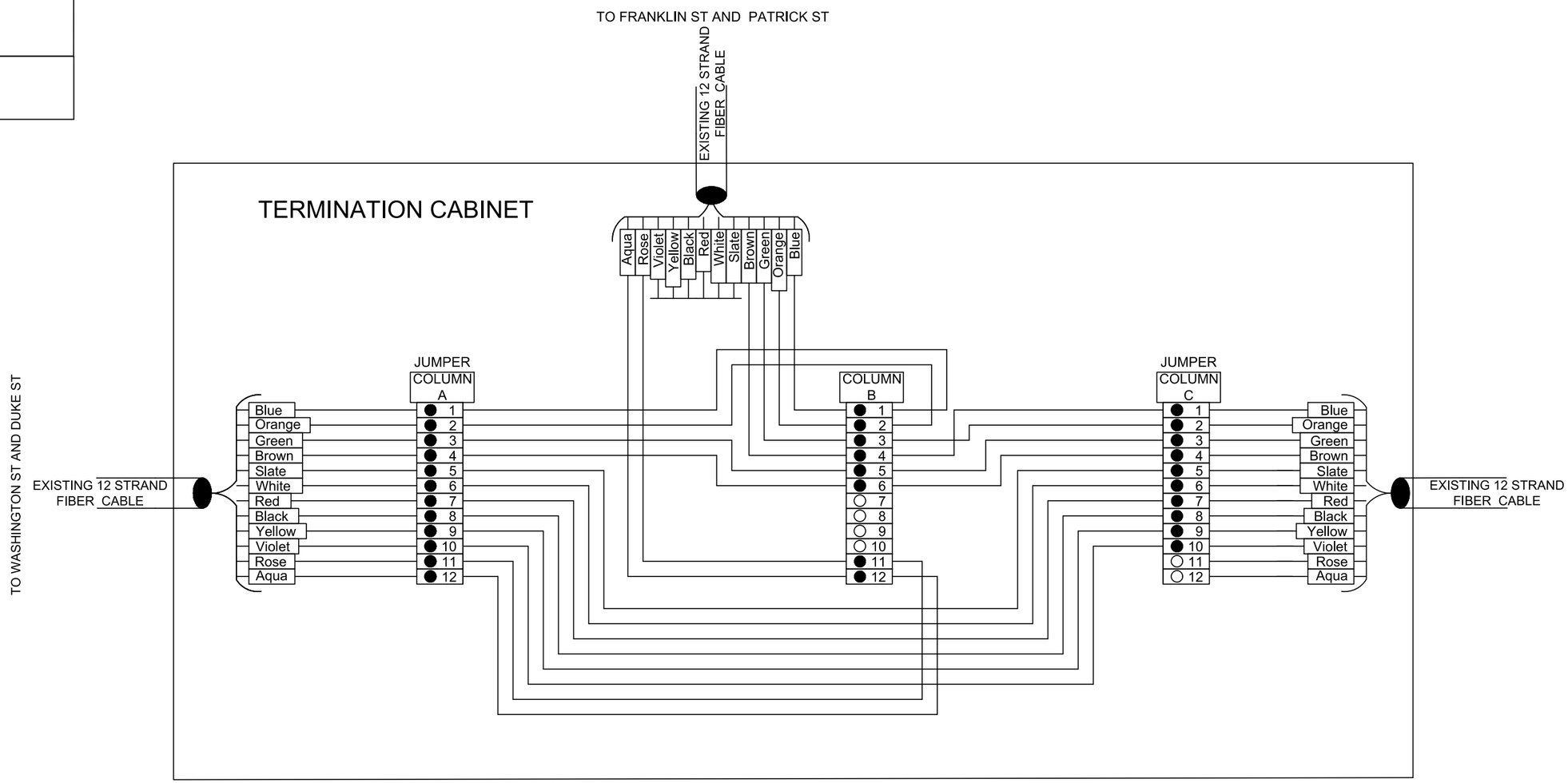
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
SEMINARY RD AND HOWARD ST
TERMINATION CABINET

SHEET
5-17
SCALE N.T.S.



TERMINATION CABINET - WASHINGTON STREET & FRANLIN STREET

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

NOTE:
REFER SHEET 8-20 FOR PASSIVE NETWORK SPLICE DIAGRAM AT WASHINGTON ST & FRANKLIN ST

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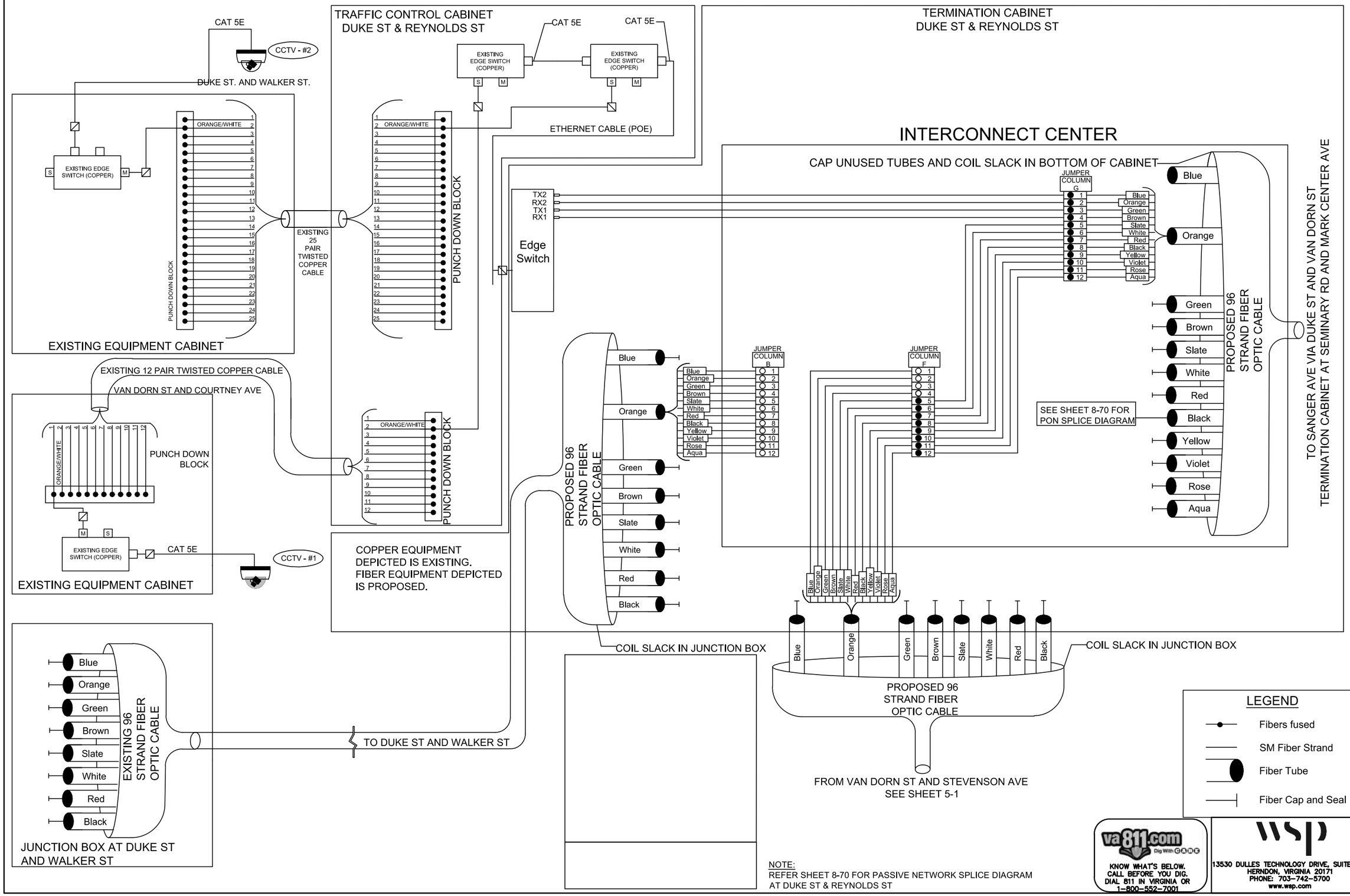
SPLICING DIAGRAM WASHINGTON ST AND FRANKLIN ST TERMINATION CABINET

SHEET
5-18
SCALE N.T.S.



NOTE:
REFER SHEET 8-70 FOR PASSIVE NETWORK SPLICE DIAGRAM AT DUKE ST & REYNOLDS ST

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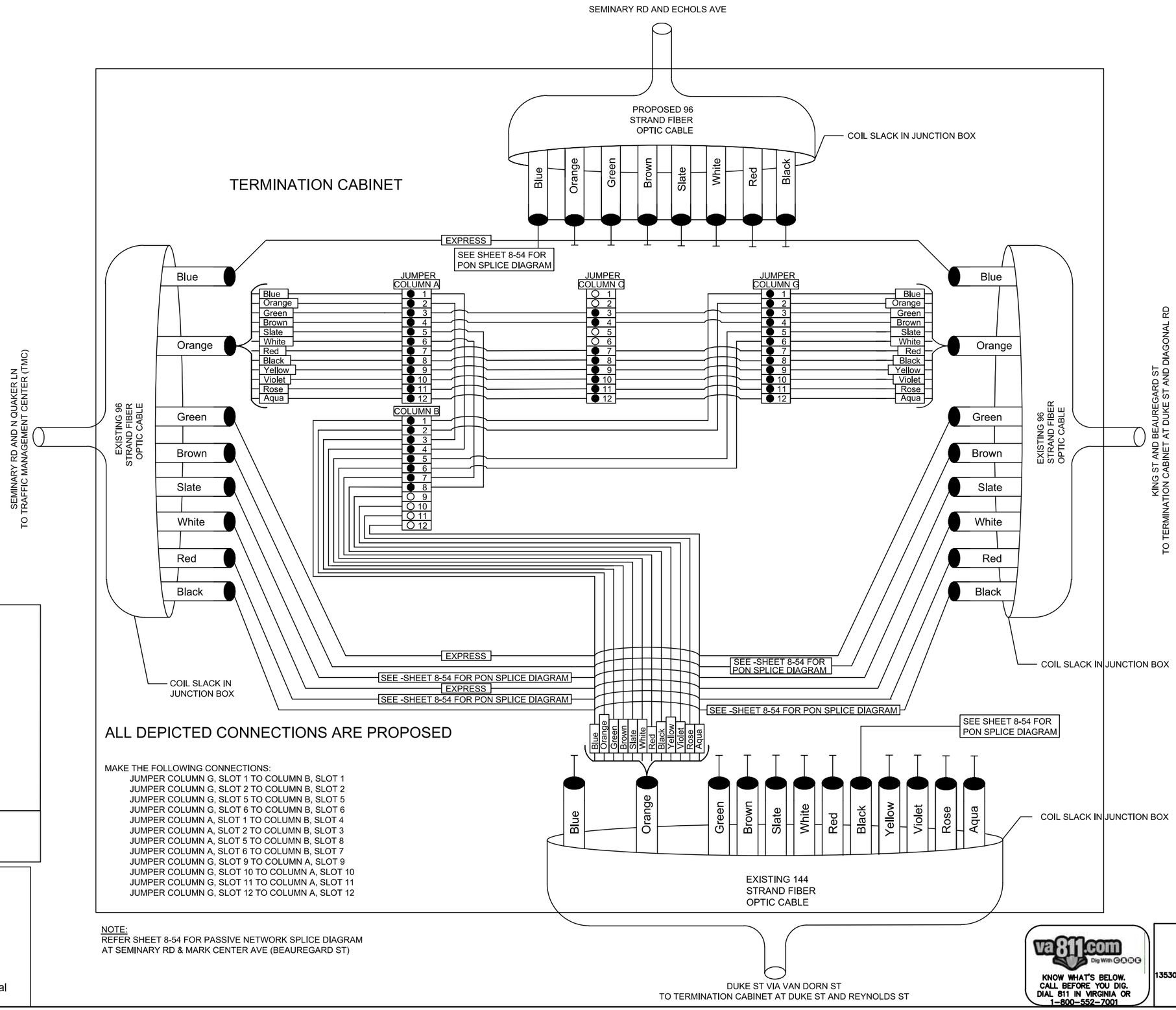
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
DUKE ST AND REYNOLDS ST TERMINATION CABINET

SHEET
5-19
SCALE N.T.S.



ALL DEPICTED CONNECTIONS ARE PROPOSED

MAKE THE FOLLOWING CONNECTIONS:

- JUMPER COLUMN G, SLOT 1 TO COLUMN B, SLOT 1
- JUMPER COLUMN G, SLOT 2 TO COLUMN B, SLOT 2
- JUMPER COLUMN G, SLOT 5 TO COLUMN B, SLOT 5
- JUMPER COLUMN G, SLOT 6 TO COLUMN B, SLOT 6
- JUMPER COLUMN A, SLOT 1 TO COLUMN B, SLOT 4
- JUMPER COLUMN A, SLOT 2 TO COLUMN B, SLOT 3
- JUMPER COLUMN A, SLOT 5 TO COLUMN B, SLOT 8
- JUMPER COLUMN A, SLOT 6 TO COLUMN B, SLOT 7
- JUMPER COLUMN G, SLOT 9 TO COLUMN A, SLOT 9
- JUMPER COLUMN G, SLOT 10 TO COLUMN A, SLOT 10
- JUMPER COLUMN G, SLOT 11 TO COLUMN A, SLOT 11
- JUMPER COLUMN G, SLOT 12 TO COLUMN A, SLOT 12

NOTE:
REFER SHEET 8-54 FOR PASSIVE NETWORK SPLICE DIAGRAM AT SEMINARY RD & MARK CENTER AVE (BEAUREGARD ST)

LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

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SPLICING DIAGRAM
SEMINARY RD AND
MARK CENTER AVE(BEAUREGARD ST)
TERMINATION CABINET

SHEET 5-20

SCALE N.T.S.

SERVING ZONE 1–TERMINATION CABINET AT TRAFFIC MANAGEMENT CENTER

DUKE ST & S QUAKER LN (6–1)
DUKE ST & ALEXANDRIA COMMONS (6–2)
DUKE ST & SWEELEY ST (6–3)
DUKE ST & ROTH ST (6–4)
DUKE ST & WITTER ST (6–5)
DUKE ST & TAYLOR RUN PKWY (6–6)
DUKE ST & DOVER ST/ROBERTS LN (6–7)
DUKE ST & CALLAHAN DR (6–8)

SERVING ZONE 2–TERMINATION CABINET AT DUKE ST & WASHINGTON ST (SPLITTER 1)

JAMIESON AVE & DULANY ST (6–12)
JAMIESON AVE & HOLLAND LN (6–13)
DUKE ST & HOLLAND LN (6–14)
DUKE ST & S PEYTON ST (6–15)
DUKE ST & S WEST ST (6–16)
DUKE ST & S PATRICK ST (6–17)
DUKE ST & S ALFRED ST (6–18)
DUKE ST & S COLUMBUS ST (6–19)

SERVING ZONE 3–TERMINATION CABINET AT WASHINGTON ST & FRANKLIN ST

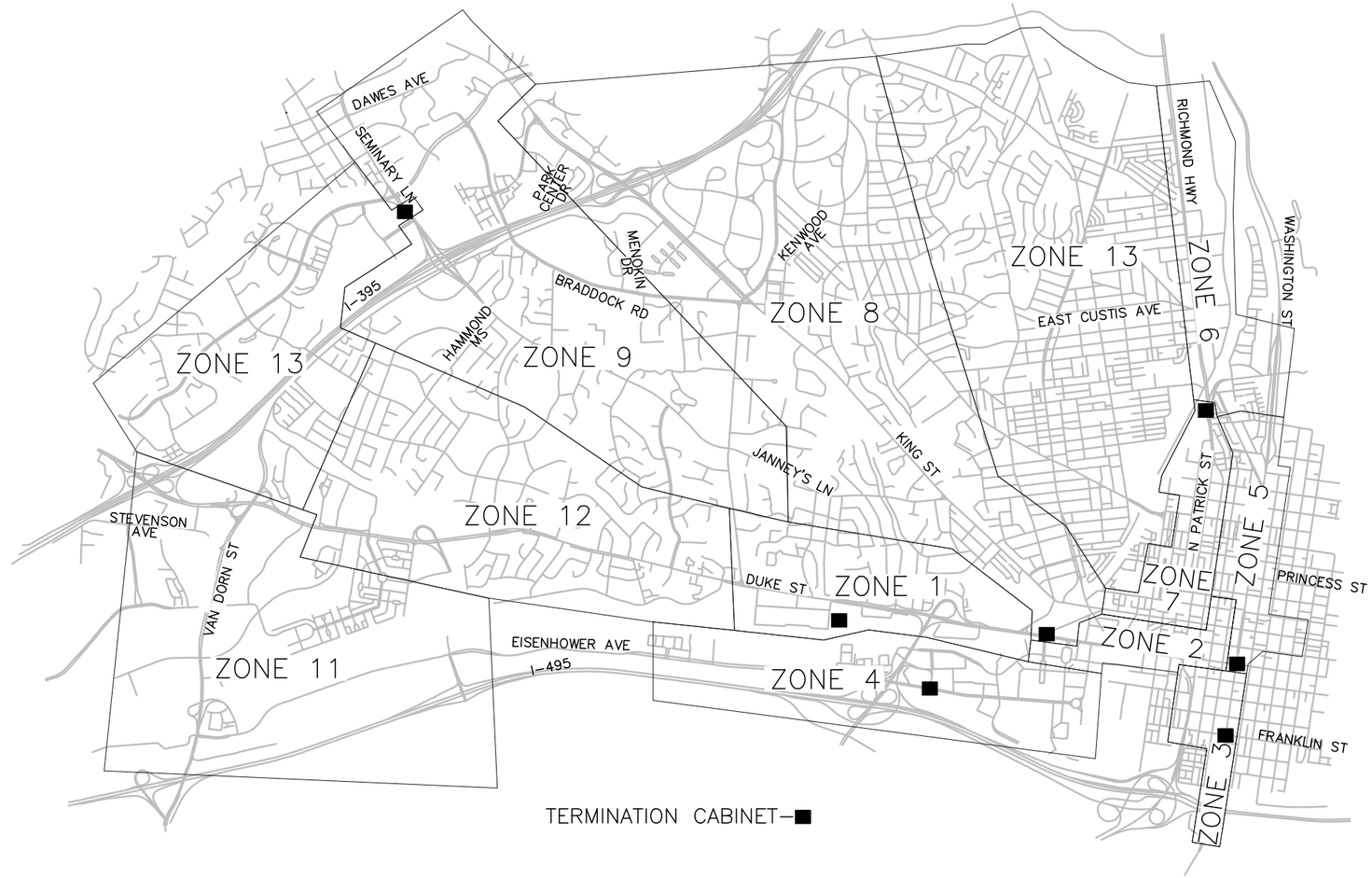
WASHINGTON ST & GREEN ST (6–49)
WASHINGTON ST & JEFFERSON ST (6–50)
WASHINGTON ST & FRANKLIN ST (6–51)
FRANKLIN ST & COLUMBUS ST (6–52)
WASHINGTON ST & WILKES ST (6–53)
WASHINGTON ST & WOLFE ST (6–54)

SERVING ZONE 4 – TERMINATION CABINET AT EISENHOWER AVE & STOVALL ST

EISENHOWER AVE & SWAMP FOX RD (6–40)
EISENHOWER AVE & MILL RACE LN (6–41)
EISENHOWER AVE & MILL RD (6–42)
EISENHOWER AVE & ELIZABETH LN (6–43)
EISENHOWER AVE & PED CROSSING (6–44)
EISENHOWER AVE & JOHN CARLYLE ST (6–45)

SERVING ZONE 6–TERMINATION CABINET AT ROUTE 1 & SLATERS LN (SPLITTER 1)

ROUTE 1 & SLATERS LN (6–58)
ROUTE 1 & POTOMAC AVE (6–55)
ROUTE 1 & E HOWELL AVE (6–56)
ROUTE 1 & SWANN AVE (6–57)



TERMINATION CABINET–■

SERVING ZONE 8–TERMINATION CABINET AT DUKE ST & DIAGONAL RD

DUKE ST & DIAGONAL RD (6–11)
DIAGONAL RD & METRO EXIT (6–10)
DIAGONAL RD & PED CROSSING (6–9)
KING ST & CALLAHAN DR (6–29)
KING ST & UPLAND PL (6–28)
KING ST & HIGHLAND PL (6–27)
KING ST & S TAYLOR ST (6–26)
KING ST & N DEARING ST (6–25)
MENOKIN DR & N VAN DORN ST (6–24)
KING ST & HAMPTON PL (6–23)
KING ST & HAMPTON DR (6–22)
KING ST & 28TH ST (6–21)

SERVING ZONE 9–TERMINATION CABINET AT BEUREGARD ST & SEMINARY RD (SPLITTER 1)

SEMINARY RD & ST STEPHENS RD (6–39)
SEMINARY RD & N HOWARD ST (6–38)
SEMINARY RD & N JORDAN ST (6–37)
SEMINARY RD & N PICKETT ST (6–36)
SEMINARY RD & LIBRARY LN (6–35)
BRADDOCK RD & N HOWARD ST (6–48)
BRADDOCK RD & N VAN DORN ST (6–47)
BRADDOCK RD & N HAMPTON DR (6–46)
N BEAUREGARD ST & W BRADDOCK RD (6–31)
N BEAUREGARD ST & FILMORE AVE (6–30)
SEMINARY RD & ECHOLS AVE (6–33)
SEMINARY RD & DAWES AVE (6–32)
KING ST & CHESTERFIELD RD (6–20)
SEMINARY RD & MARK CENTER DR (6–34)

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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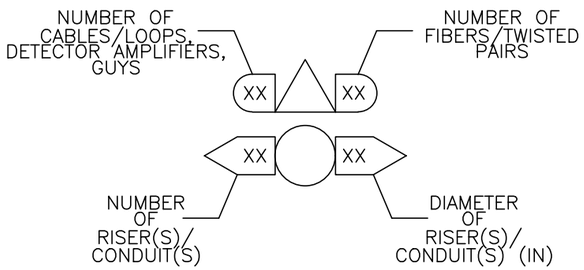
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SIGNAL COMMUNICATION KEY
PHASE III

SHEET
6–0

SCALE N.T.S.

CONSTRUCTION NOTE SYMBOLOGY KEY



KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
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- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
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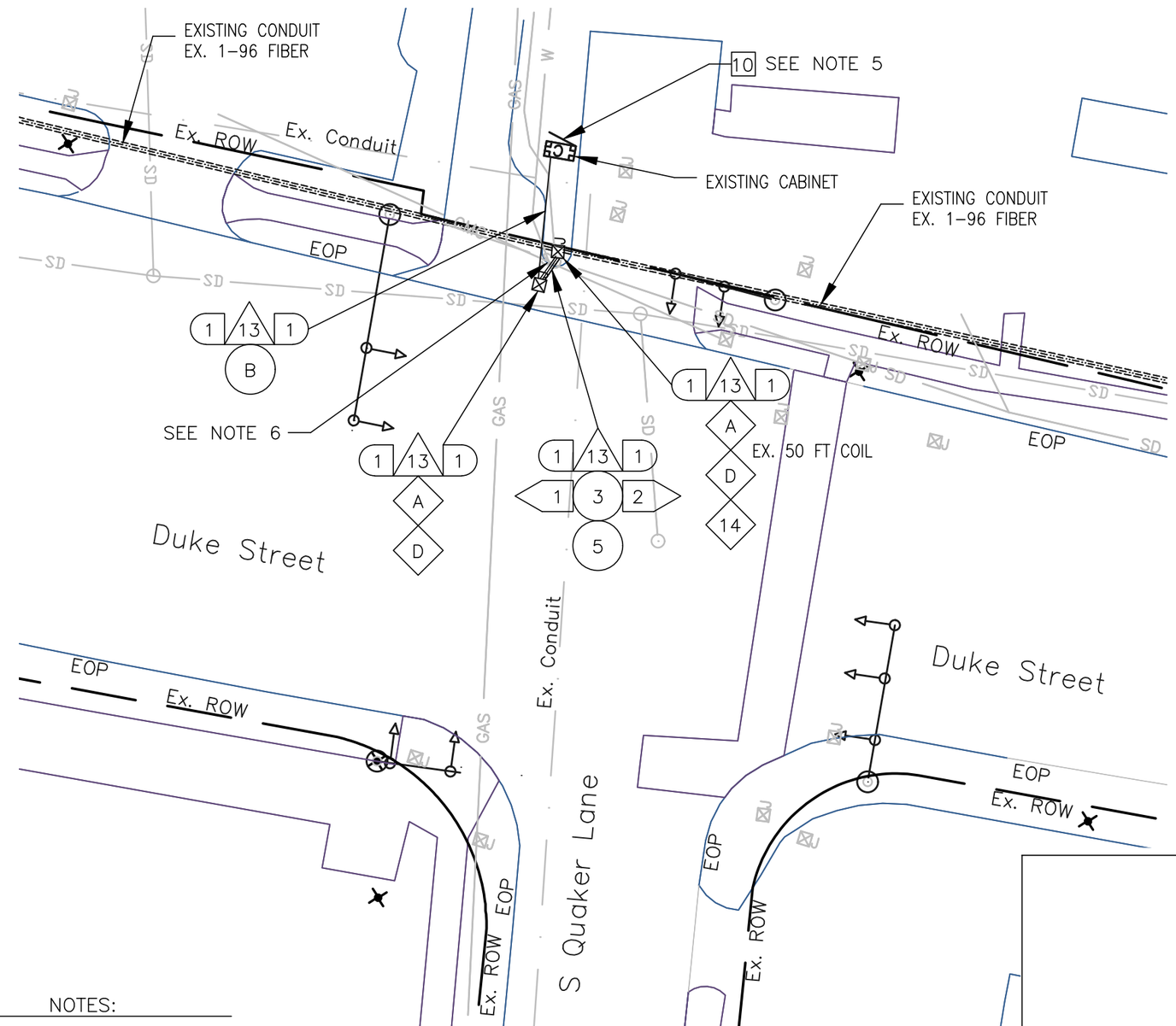
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



NOTES:

1. MISS UTILITY (1-800-522-7001) TICKET A912701893. JUC IS AFFECTED.
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3. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AN UTILITY CHECK PRIOR TO EXCAVATION.
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5. SEE CABINET DETAIL B (SHEET 6-59)
6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

0 25'

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND S QUAKER LANE SIGNAL COMMUNICATION

SHEET
6-1
SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
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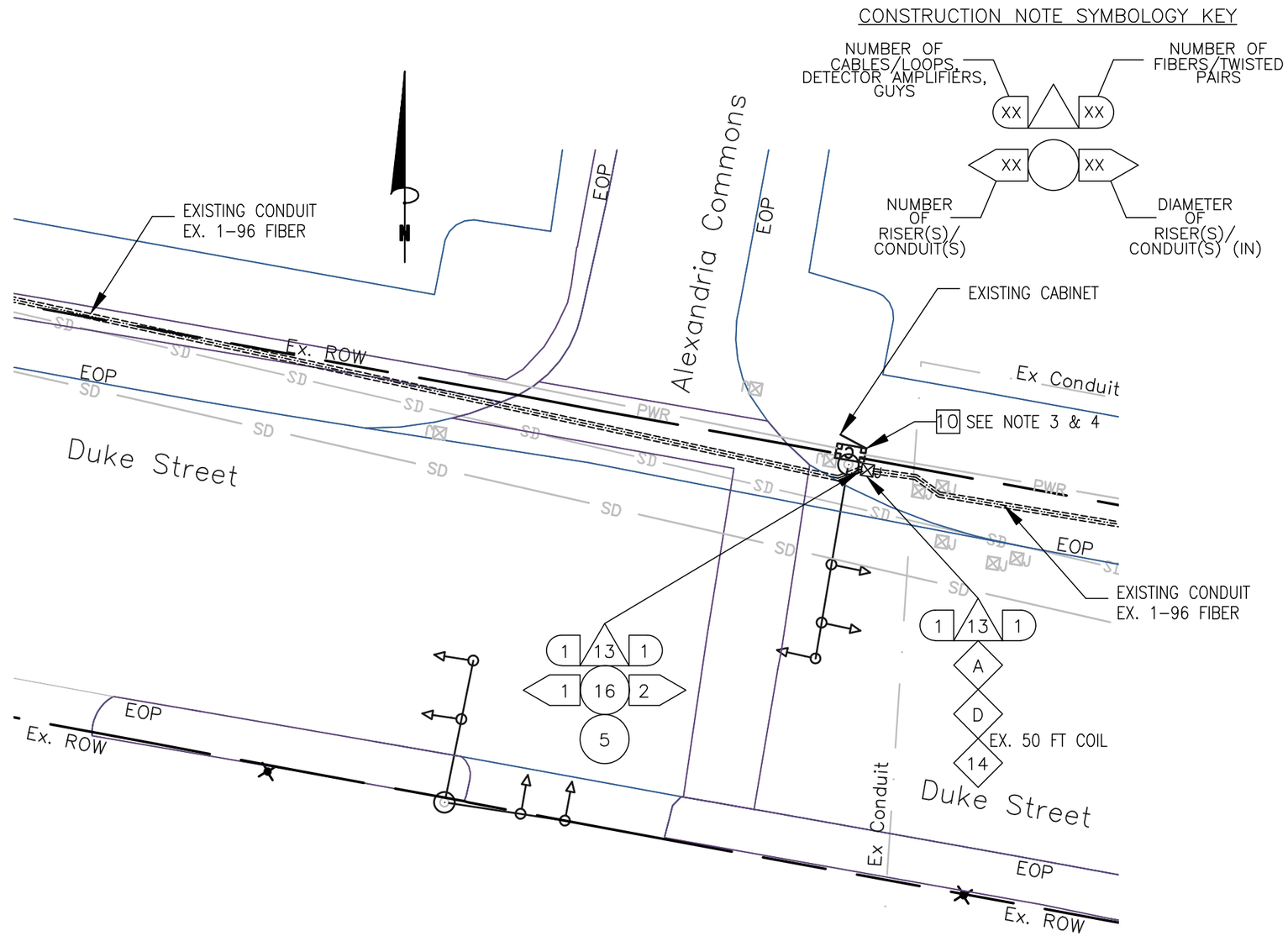
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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3. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
4. SEE CABINET DETAIL A (SHEET 6–59).

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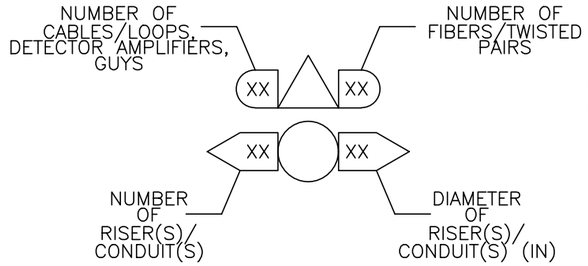
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND ALEXANDRIA COMMONS SIGNAL COMMUNICATION

SHEET
6–2
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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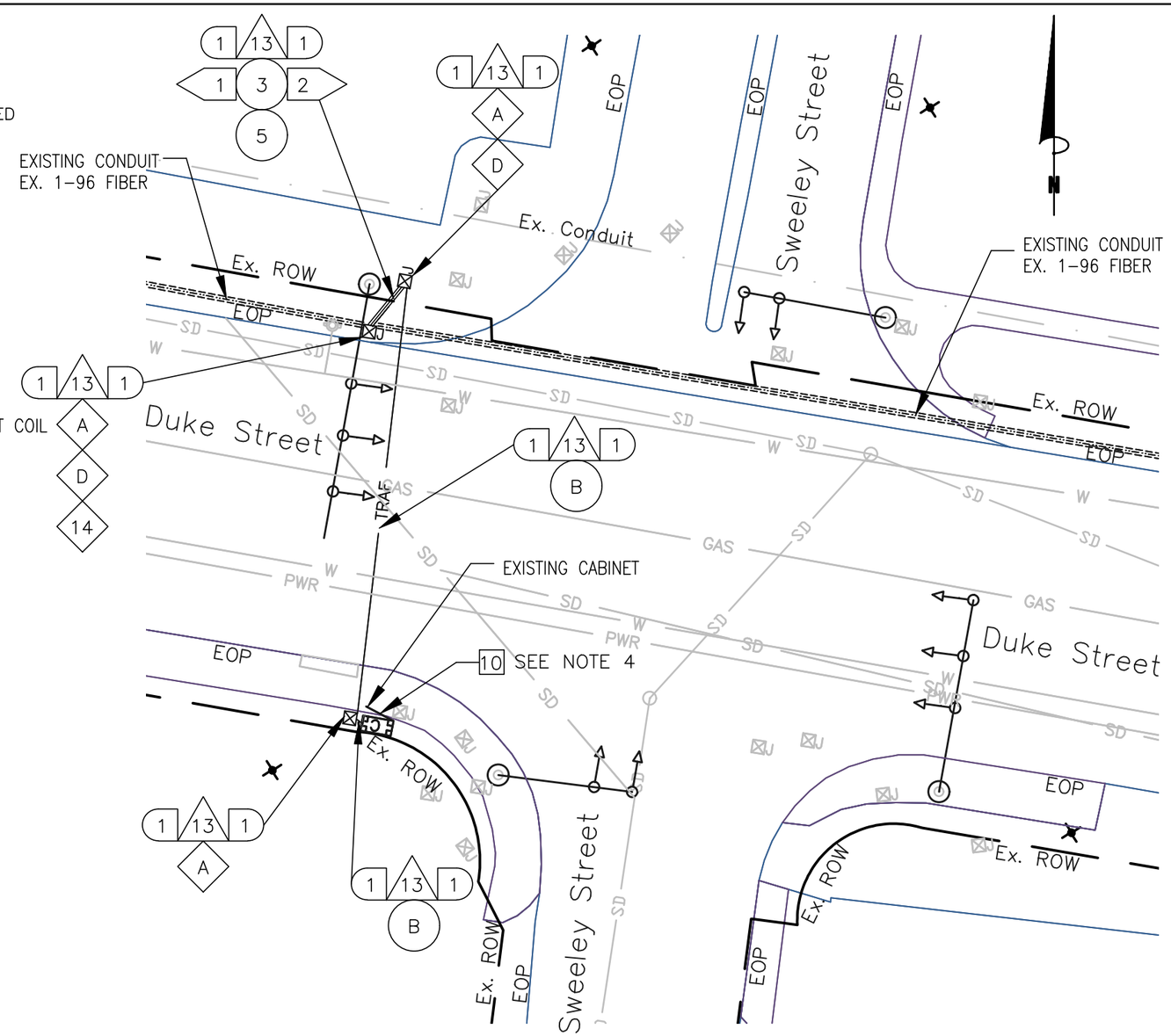

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4. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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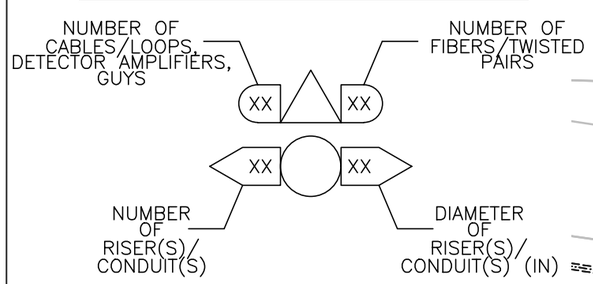
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND SWEELEY STREET SIGNAL COMMUNICATION

SHEET
6-3
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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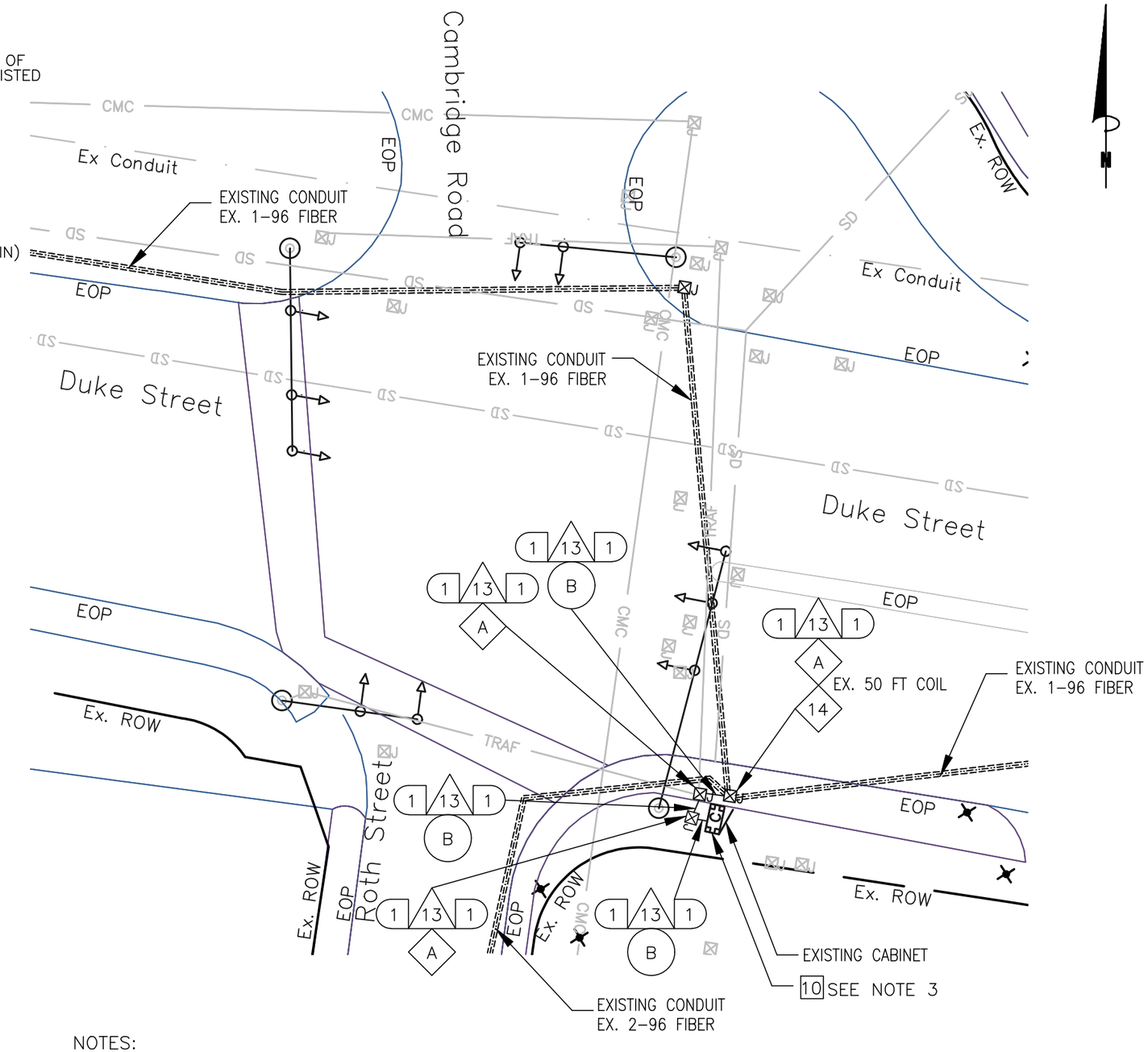

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND ROTH STREET/CAMBRIDGE ROAD SIGNAL COMMUNICATION

SHEET 6-4

SCALE 1" = 25'

NOTES:

1. MISS UTILITY (1-800-522-7001) TICKET A912701957. JUC IS AFFECTED.
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5. SEE CABINET DETAIL B (SHEET 6-59)
6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

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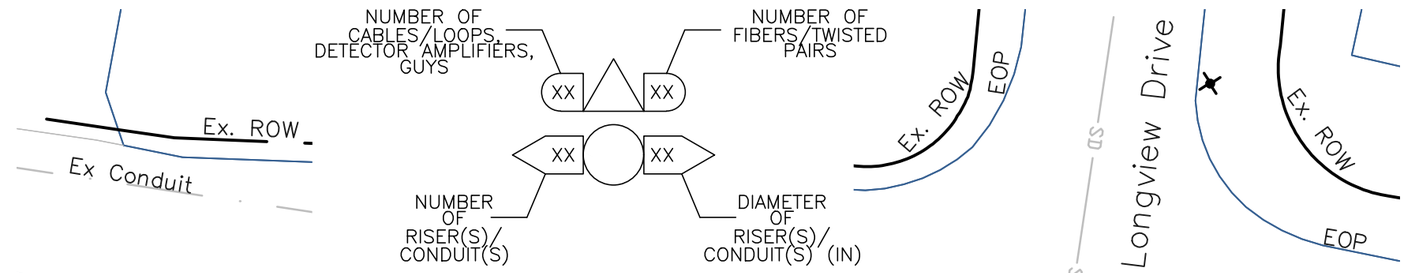
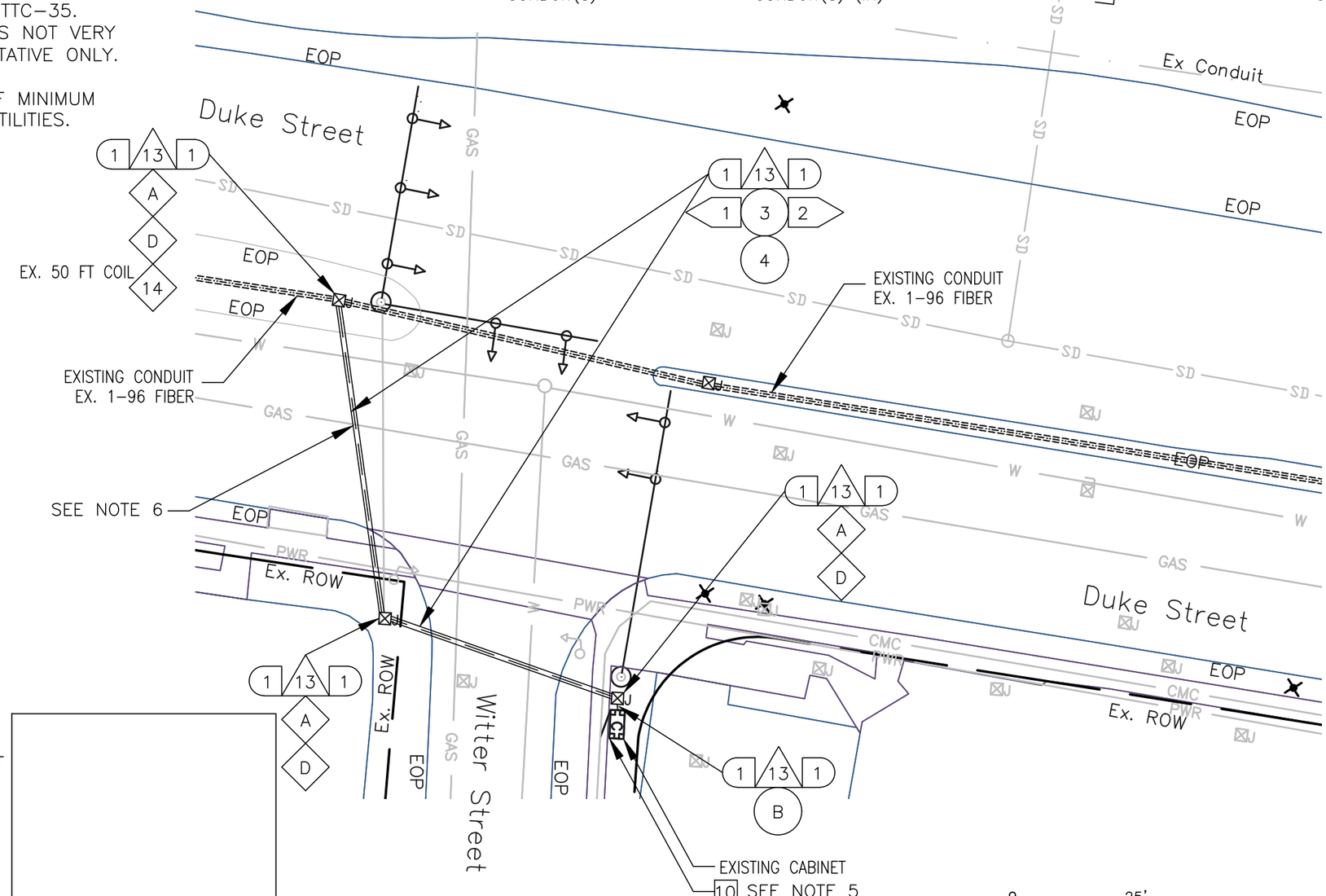
CONSTRUCTION NOTE SYMBOLOGY KEY





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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND WITTER STREET
SIGNAL COMMUNICATION

SHEET
6-5
SCALE 1" = 25'

NOTES:

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5. CONTRACTOR WILL CO-ORDINATE WITH THE CITY REGARDING UPCS 112310 (DUKE STREET AT WEST TAYLOR INTERSECTION IMPROVEMENTS-BRAC) AND 115531 (DUKE STREET AND DOVE STREET-SAFETY AND CAPACITY ENHANCEMENTS) DURING THE CONSTRUCTION.
6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

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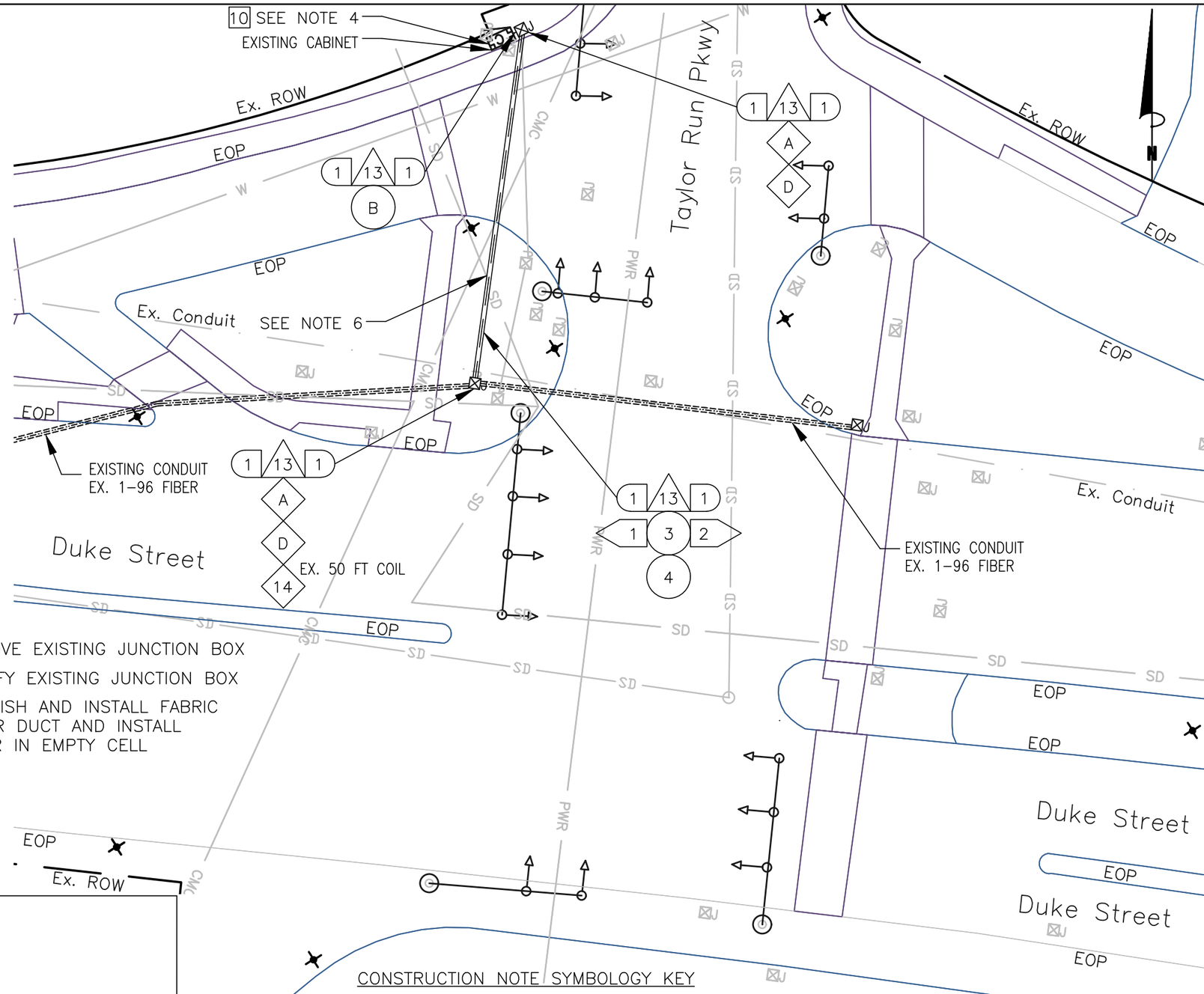

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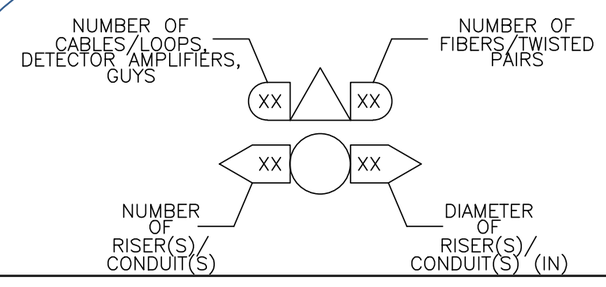

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET
AND TAYLOR RUN PARKWAY
SIGNAL COMMUNICATION

SHEET
6-6
SCALE 1" = 25'

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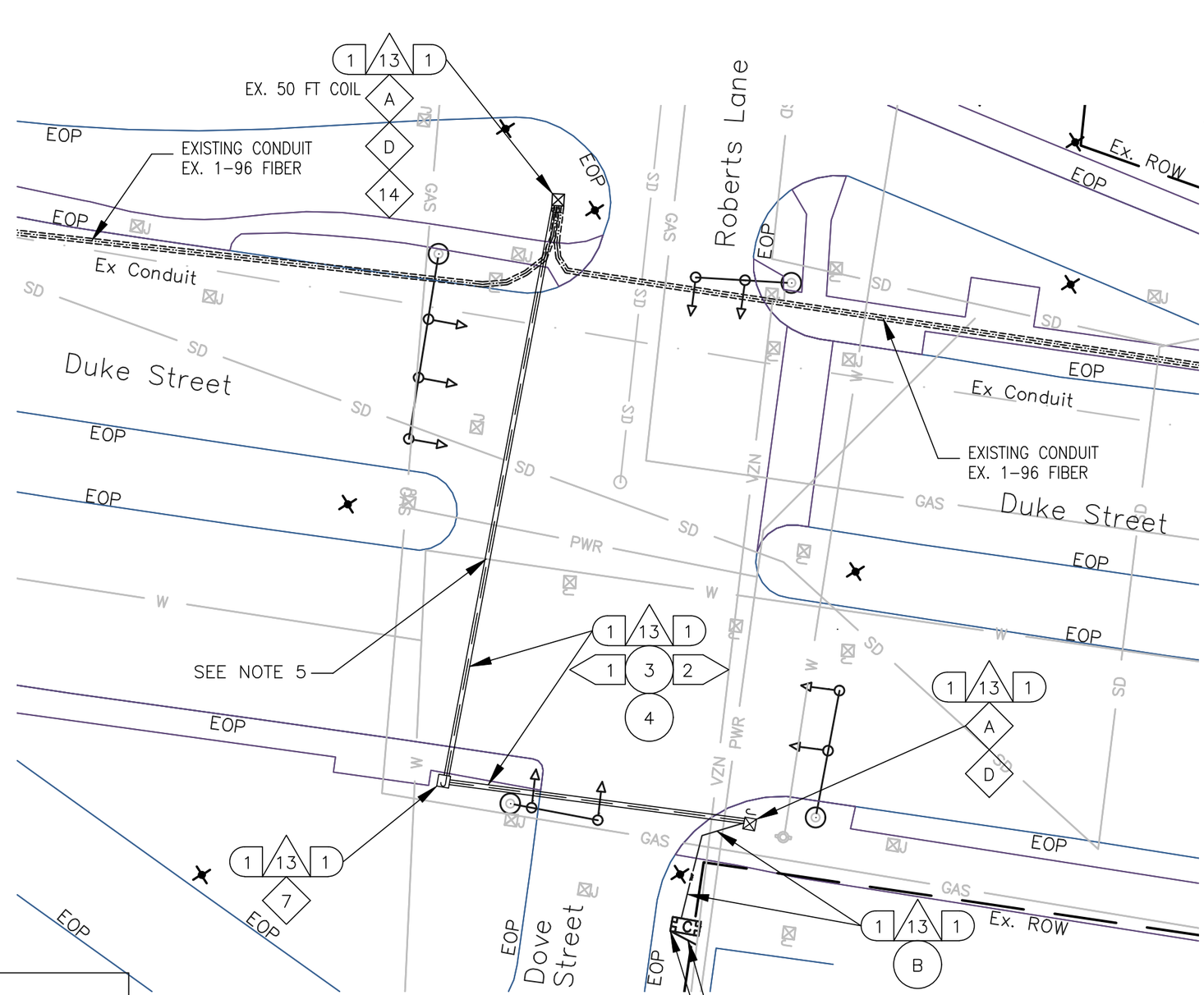
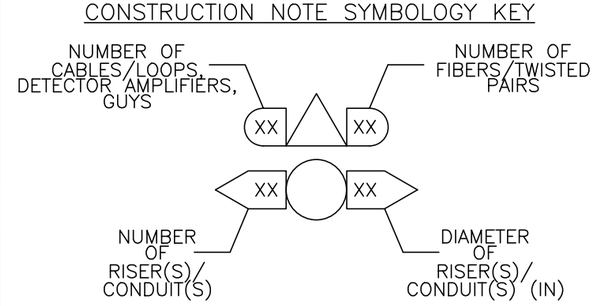
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY



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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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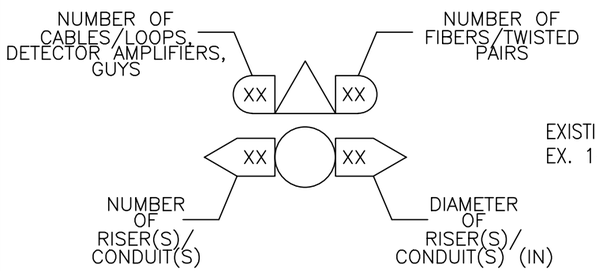
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

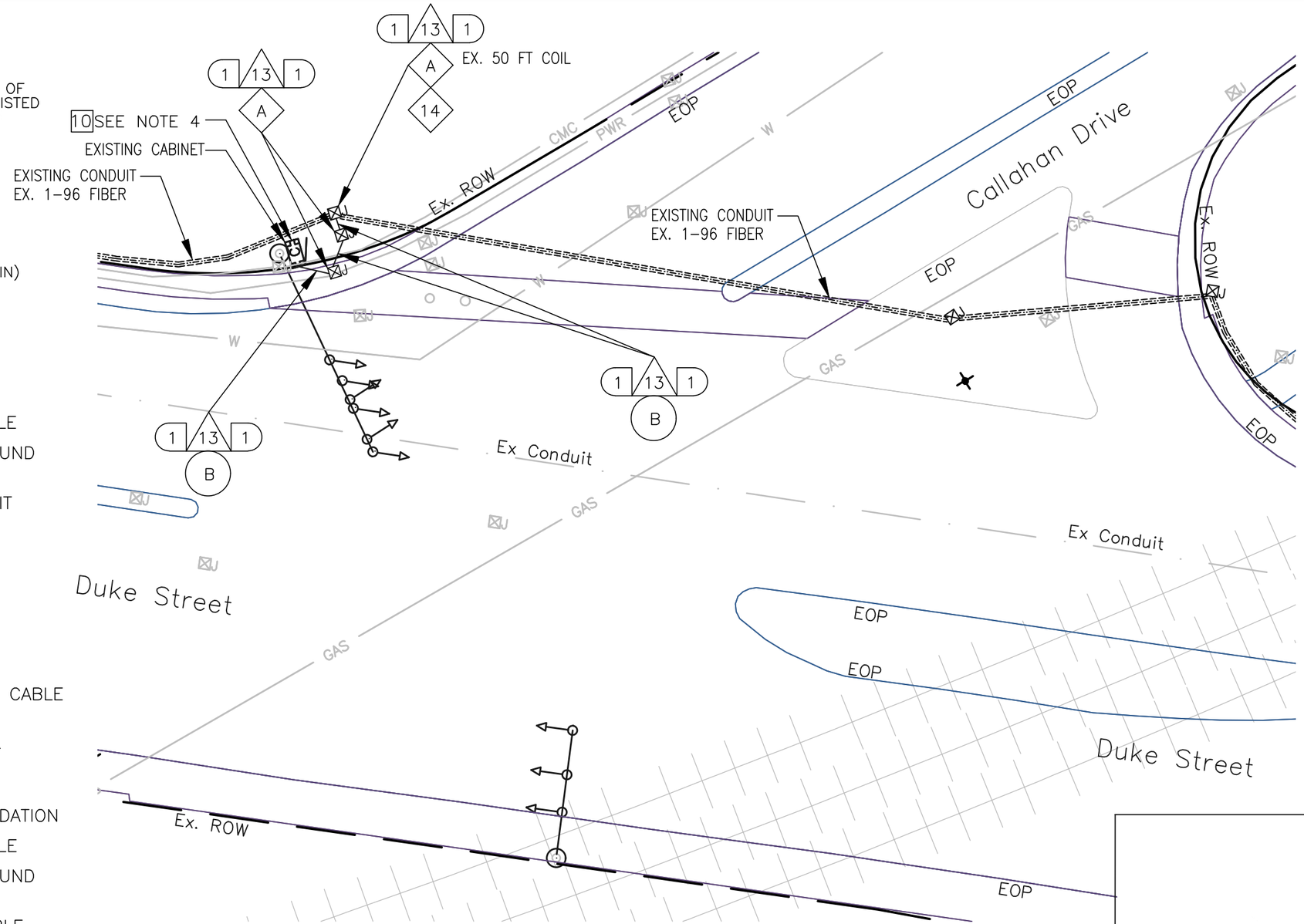
DUKE STREET AND DOVE STREET/ROBERTS LANE SIGNAL COMMUNICATION

SHEET 6-7

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





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NOTES:

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2. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE REQUIRED MOT TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC-35.
3. COMCAST (CMC) LINE IS FROM A MAP THAT IS NOT VERY DETAILED. THUS, THE CMC LINE IS REPRESENTATIVE ONLY.
4. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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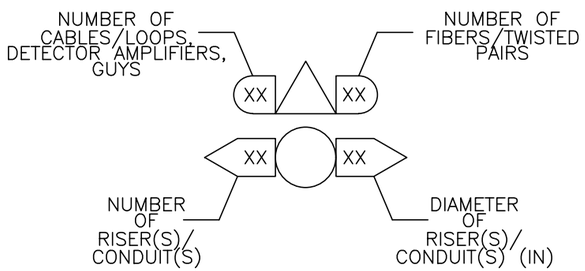
DUKE STREET AND CALLAHAN DRIVE SIGNAL COMMUNICATION

SHEET
6-8
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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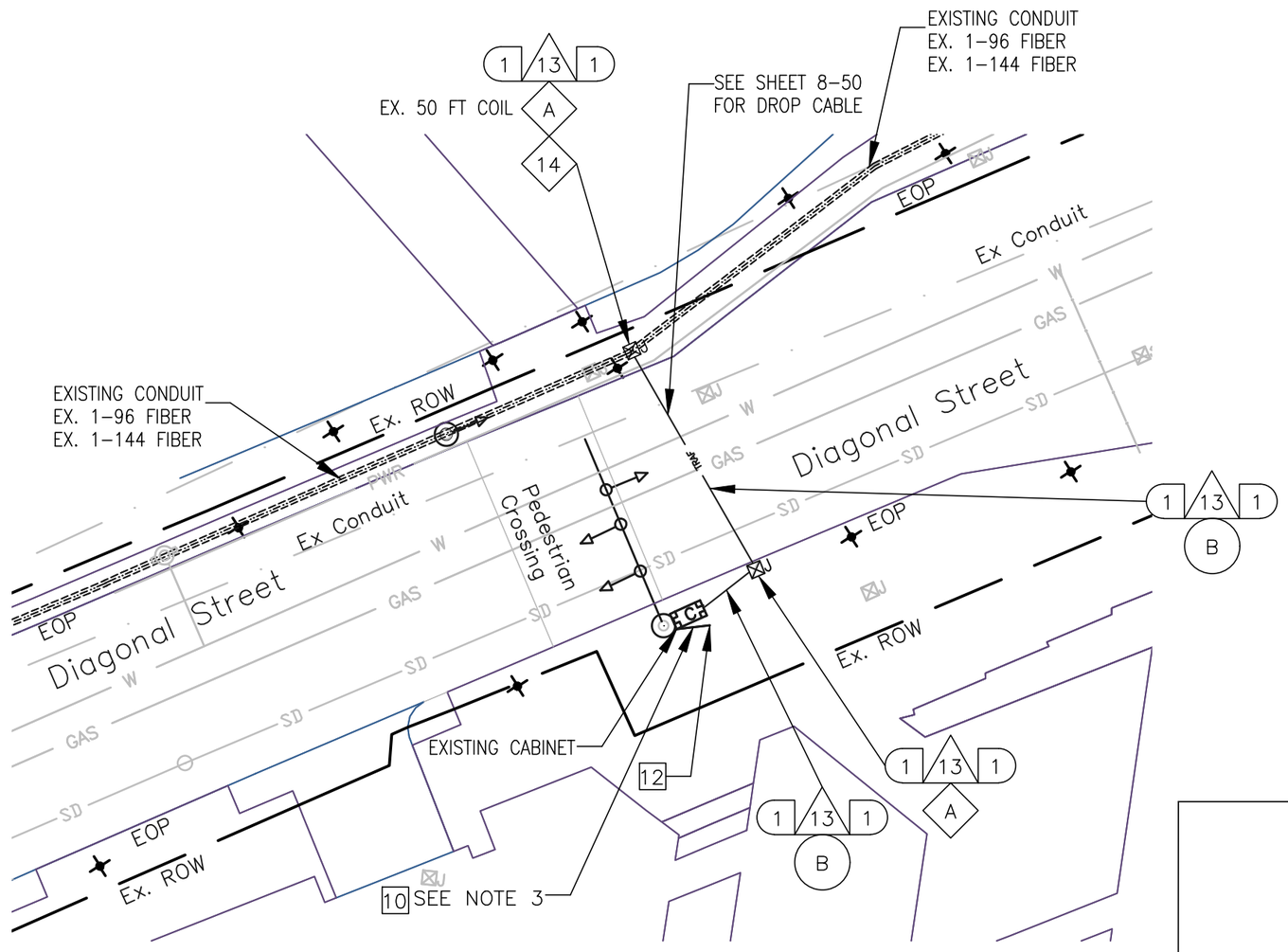

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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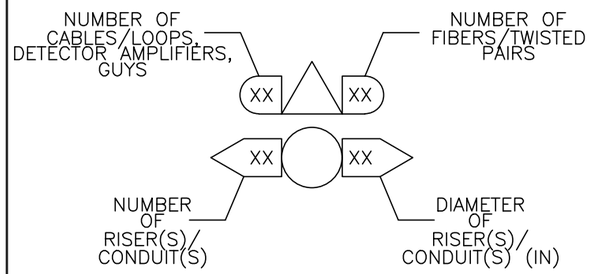
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

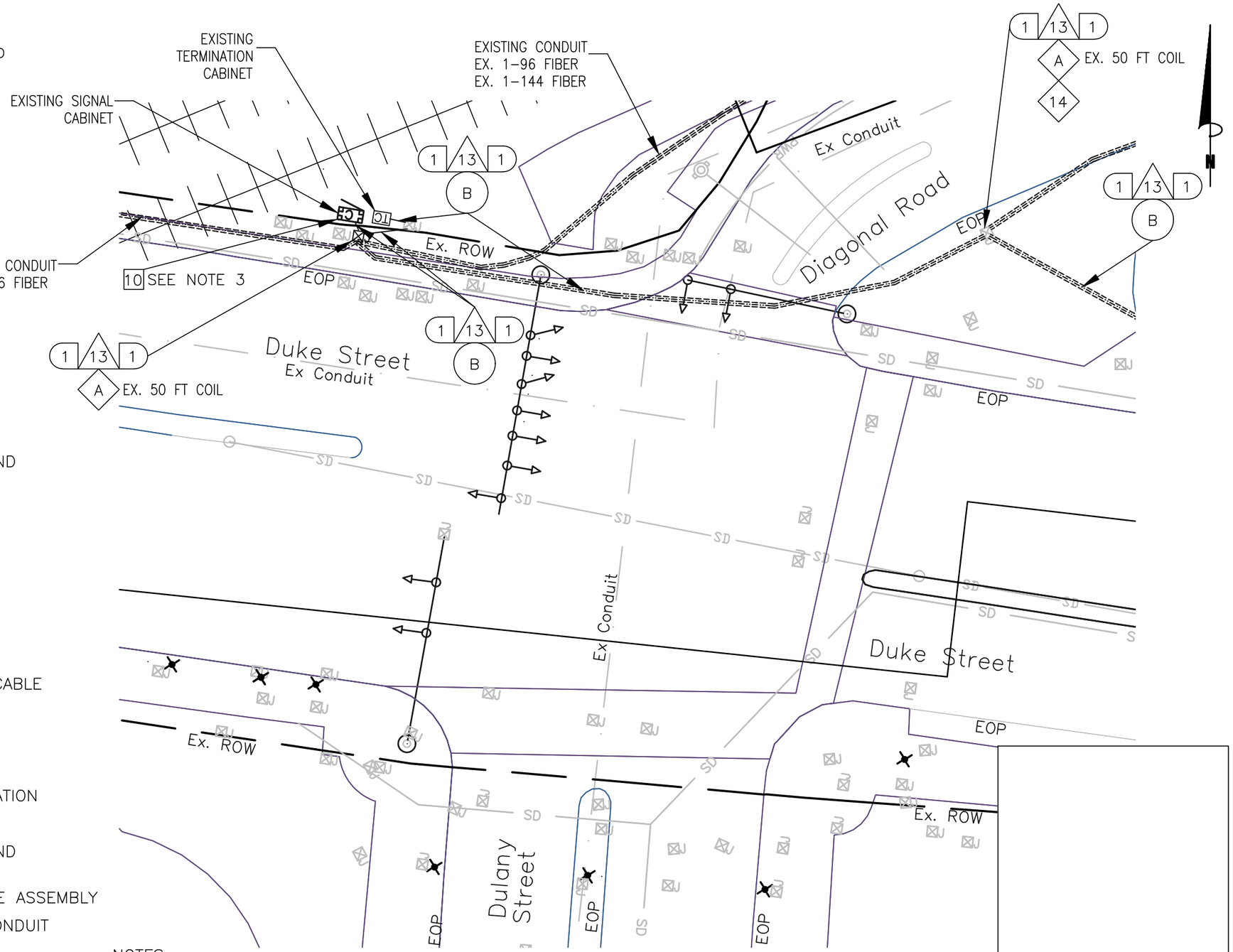
DIAGONAL STREET AND PEDESTRIAN CROSSING SIGNAL COMMUNICATION

SHEET 6-9

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





KEY

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- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
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- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
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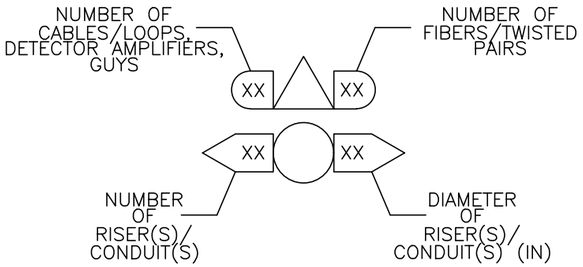
DUKE STREET AND DULANY STREET/DIAGONAL ROAD SIGNAL COMMUNICATION

SHEET
6-10
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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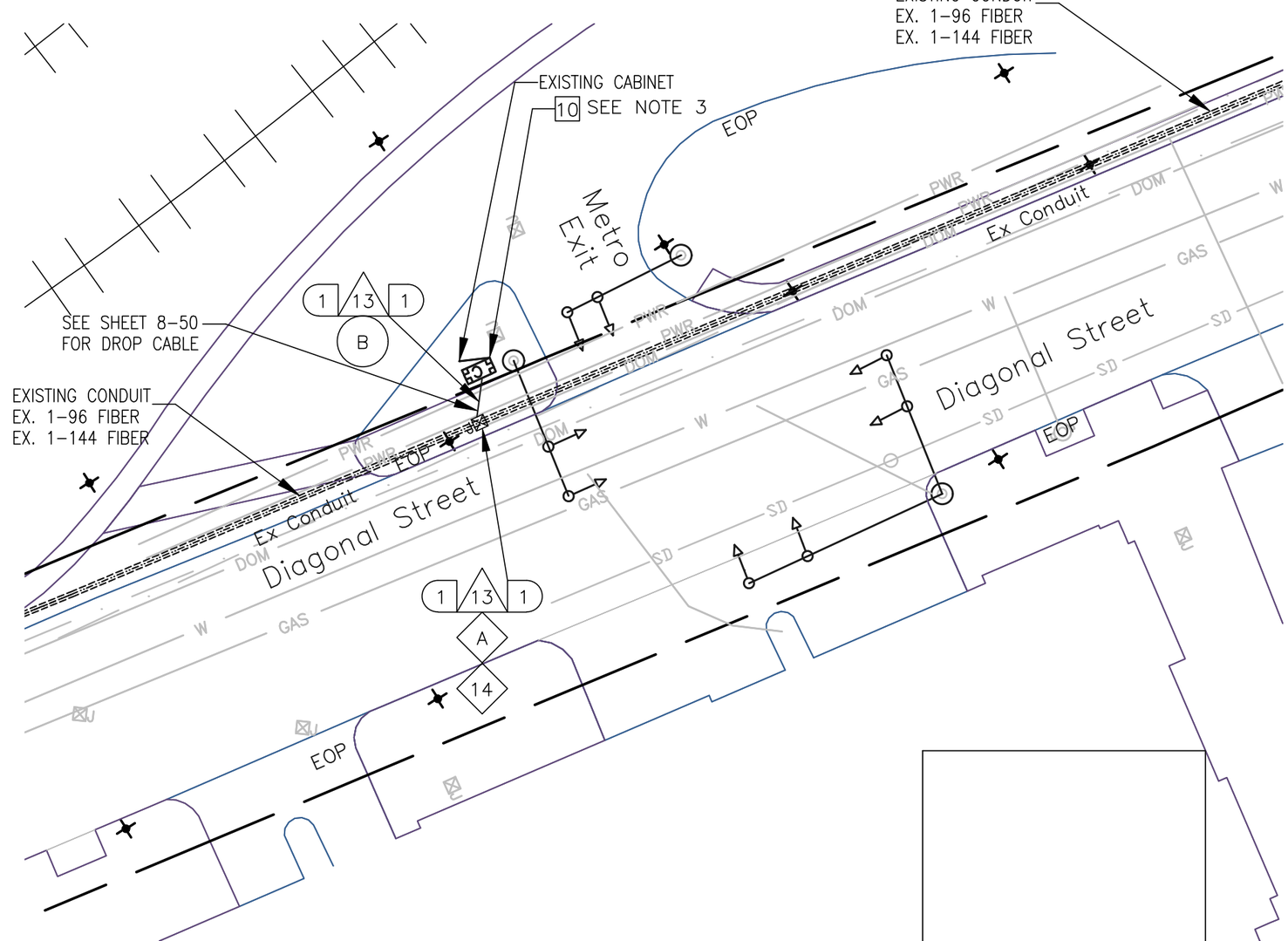

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3. SEE CABINET DETAIL A (SHEET 6-59).

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DIAGONAL STREET AND METRO EXIT SIGNAL COMMUNICATION

SHEET
6-11
SCALE 1" = 25'

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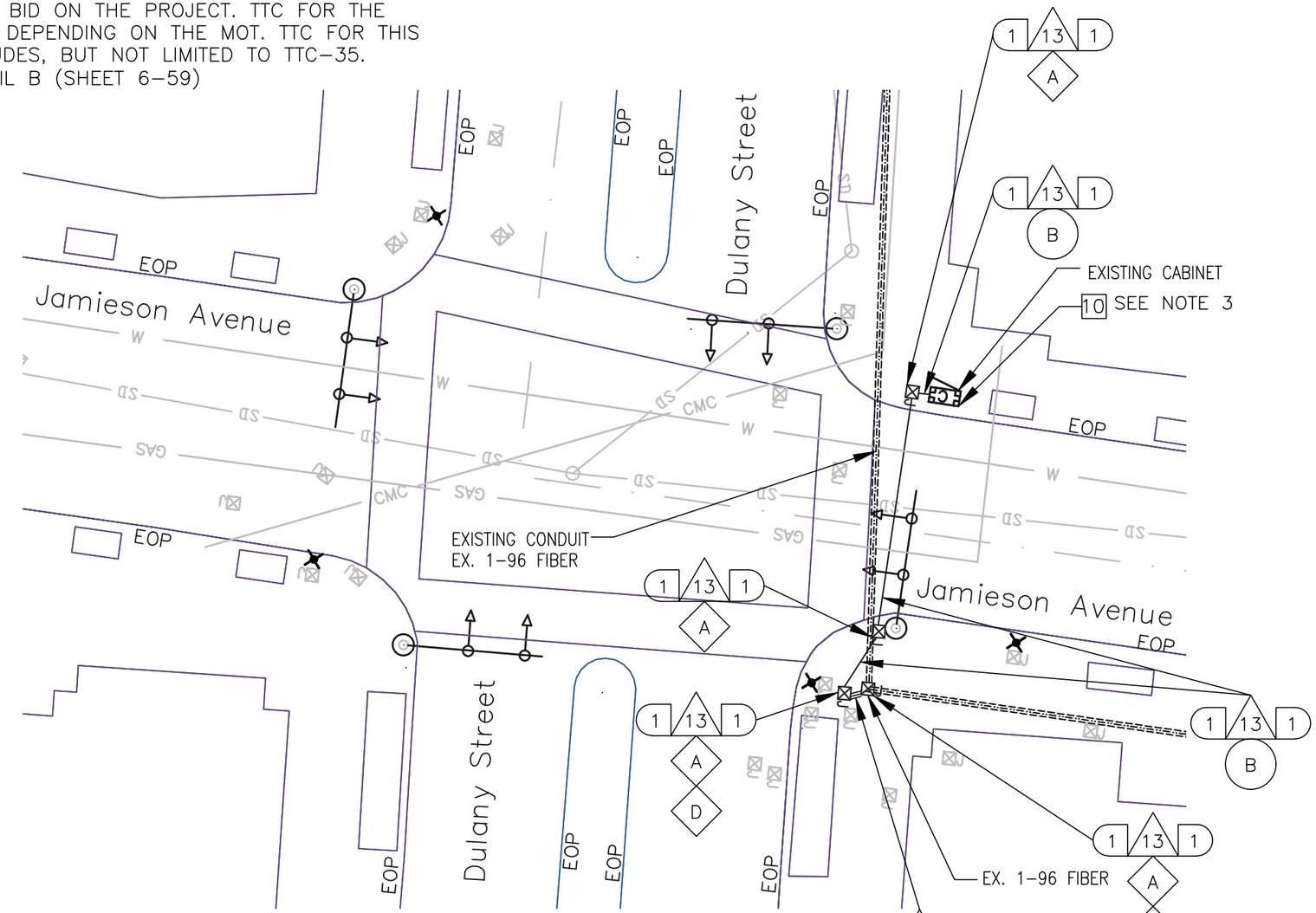

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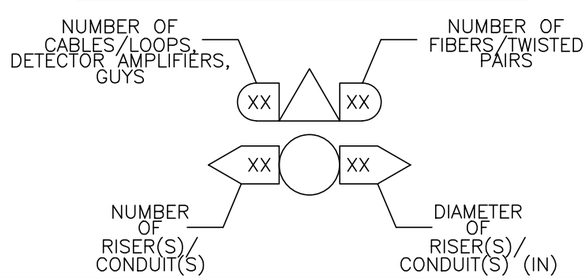

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

JAMIESON AVENUE AND DULANY STREET SIGNAL COMMUNICATION

SHEET 6-12

SCALE 1" = 25'

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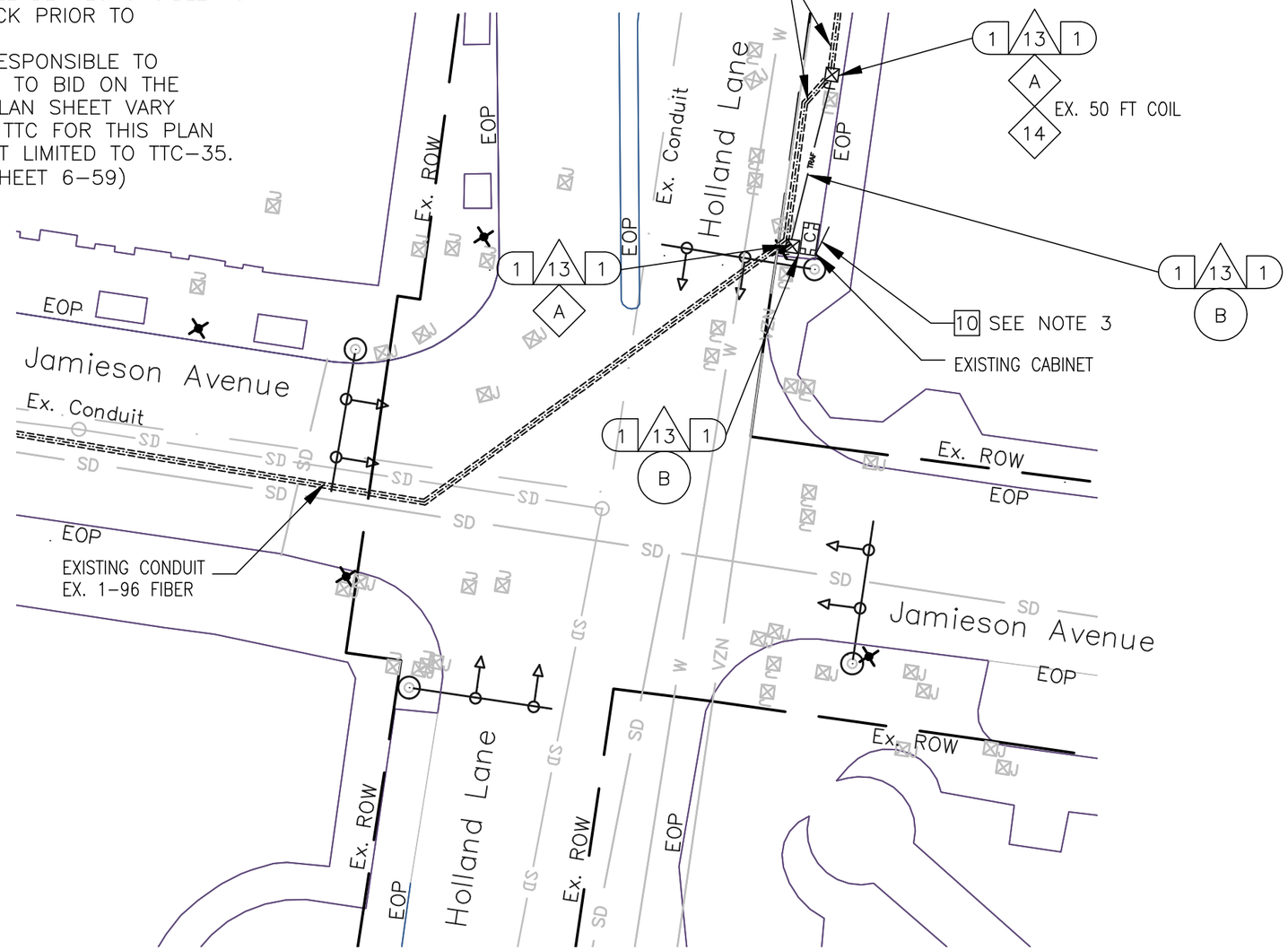

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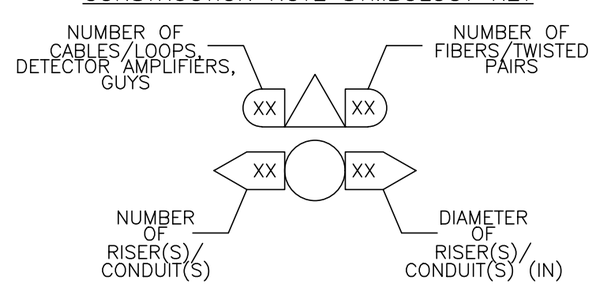

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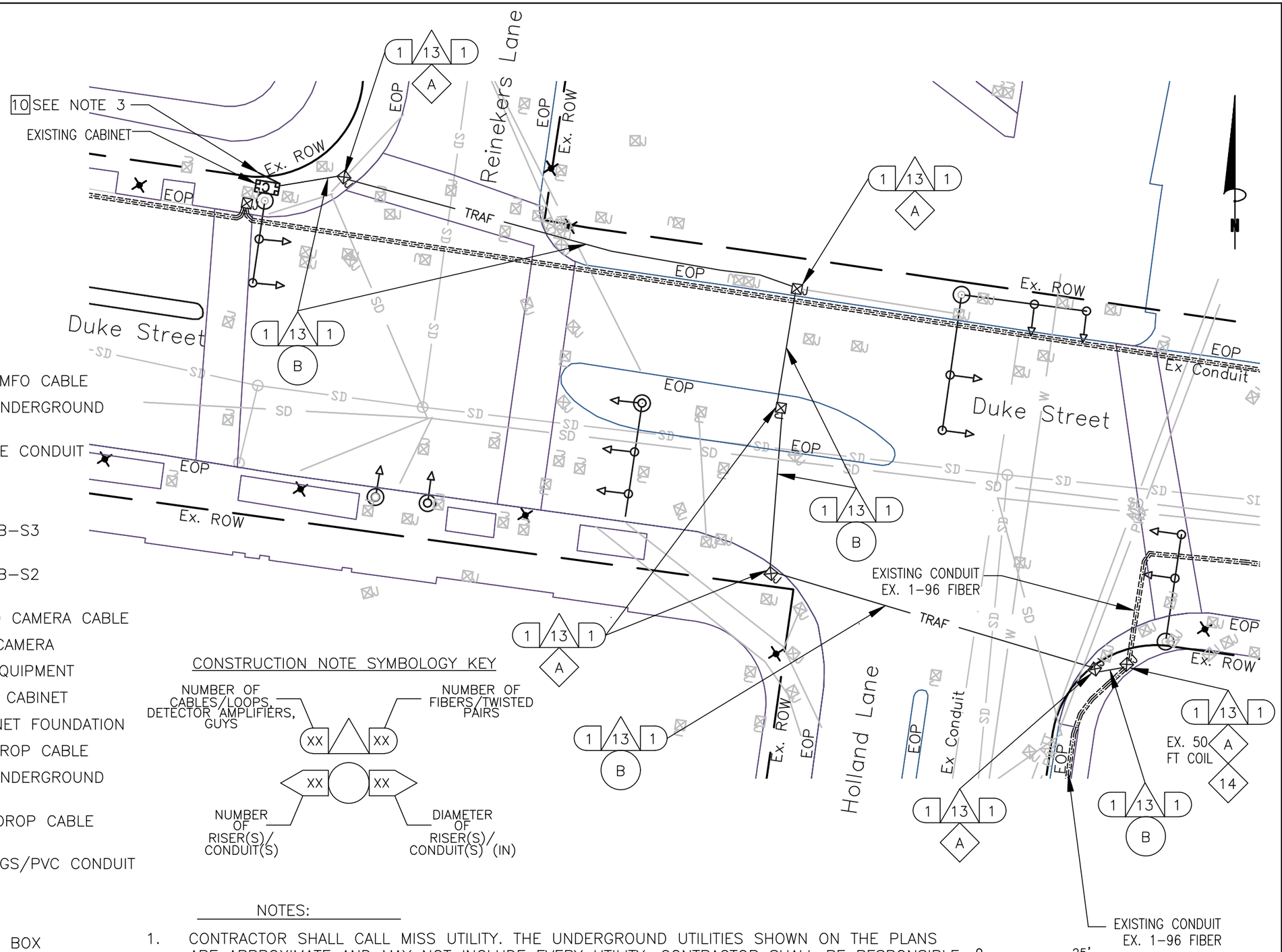
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

HOLLAND LANE
AND JAMIESON AVENUE
SIGNAL COMMUNICATION

SHEET
6-13
SCALE 1" = 25'



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4. DIRECTIONAL DRILL
5. TRENCH/SAW CUT
6. FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
7. FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
8. FURNISH & INSTALL HYBRID CAMERA CABLE
9. FURNISH & INSTALL CCTV CAMERA
10. FURNISH & INSTALL NEW EQUIPMENT
11. FURNISH AND INSTALL NEW CABINET
12. CORE DRILL EXISTING CABINET FOUNDATION
13. FURNISH & INSTALL PON DROP CABLE
14. FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

A. EXISTING JUNCTION BOX
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
E. FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6-59)

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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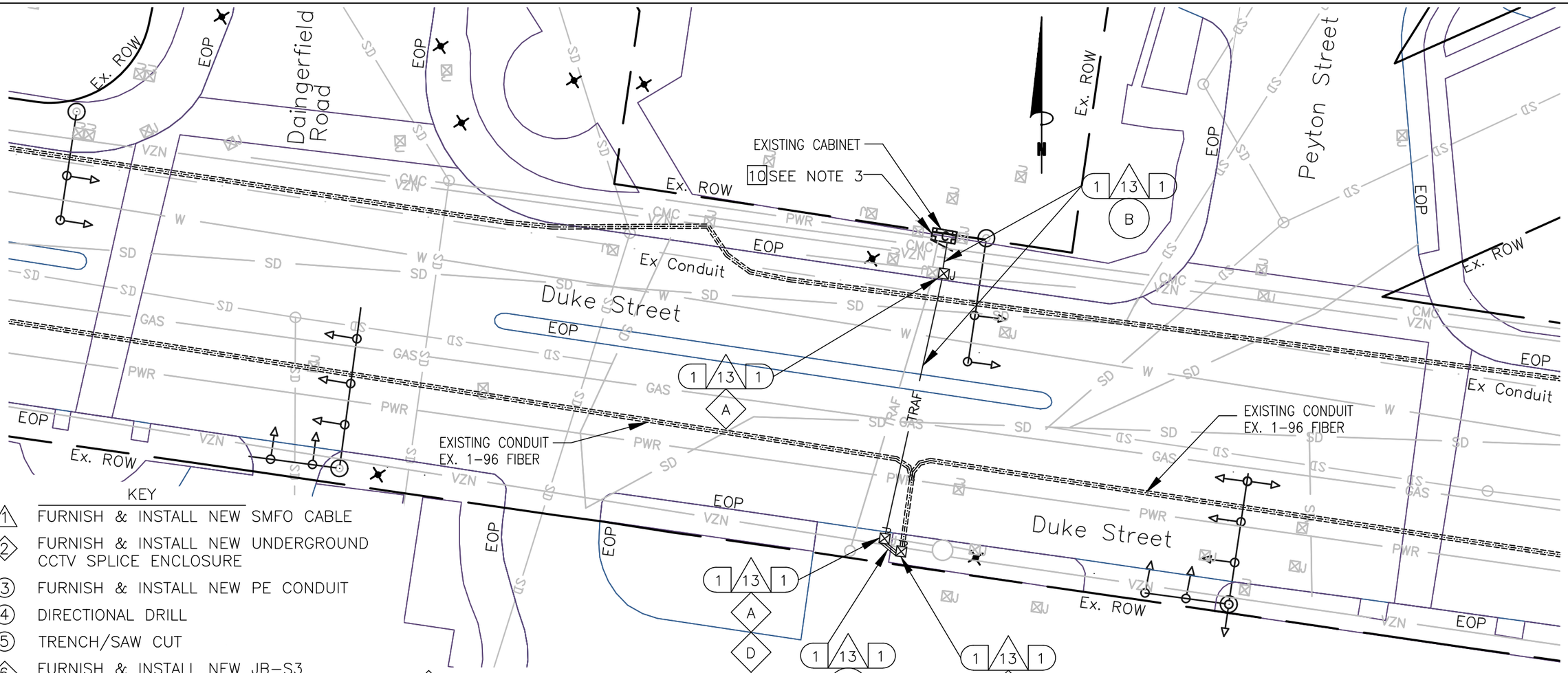
DUKE STREET AND HOLLAND LANE/REINEKERS LANE SIGNAL COMMUNICATION

SHEET 6-14

SCALE 1" = 25'



KEY

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- 13 FURNISH & INSTALL PON DROP CABLE
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- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
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- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
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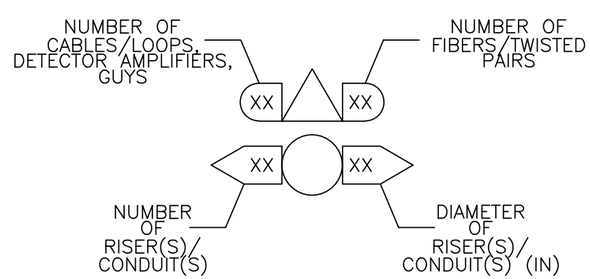
CONSTRUCTION NOTE SYMBOLOGY KEY



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3. SEE CABINET DETAIL B (SHEET 6-59)
4. COMCAST (CMC) LINE IS FROM A MAP THAT IS NOT VERY DETAILED. THUS, THE CMC LINE IS REPRESENTATIVE ONLY.

0 25'

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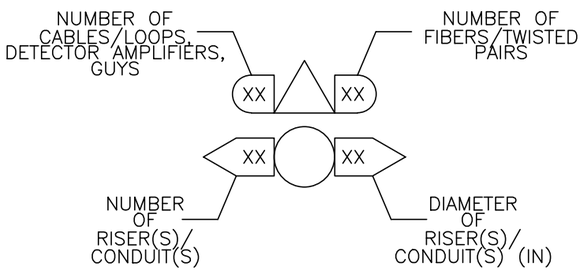
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND PEYTON STREET/DAINGERFIELD ROAD SIGNAL COMMUNICATION

SHEET 6-15

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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- (C) REMOVE EXISTING JUNCTION BOX
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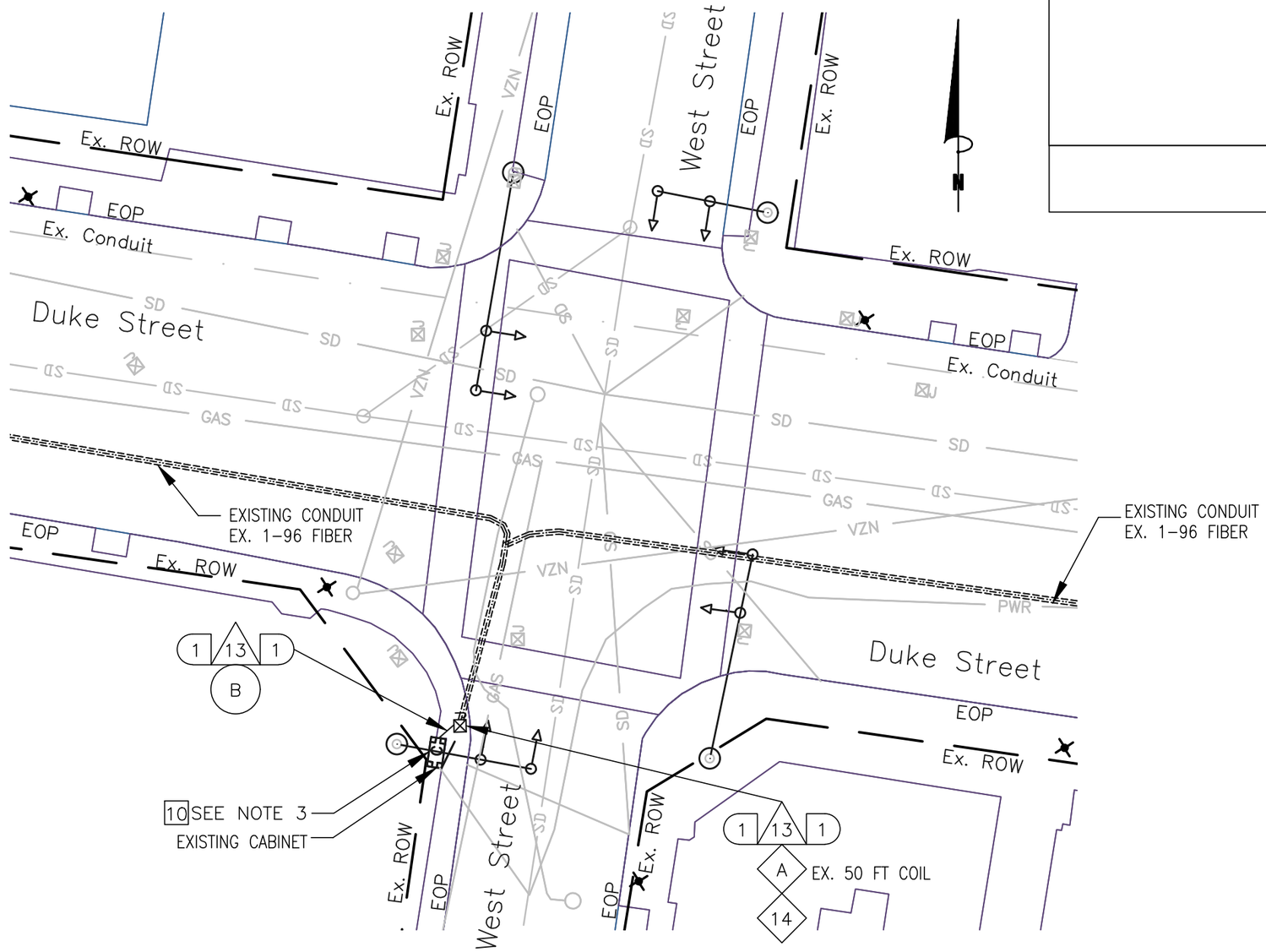

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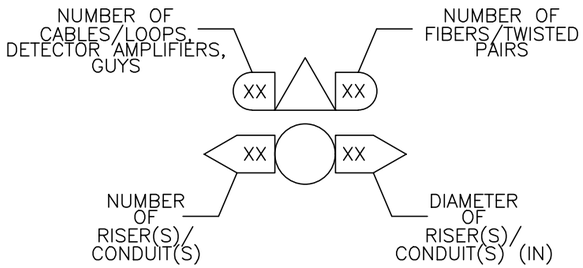
DUKE STREET AND WEST STREET SIGNAL COMMUNICATION

SHEET
6–16
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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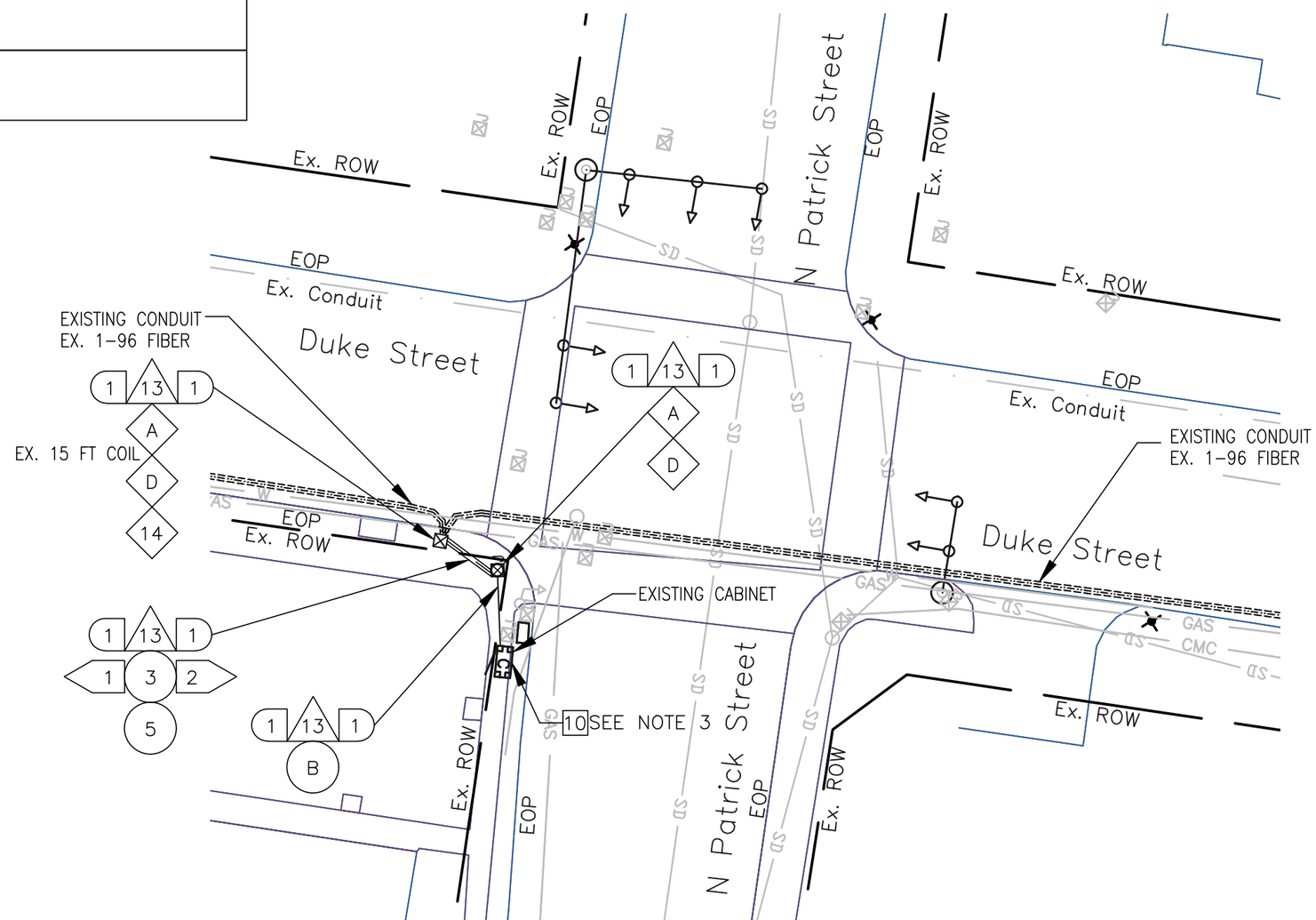

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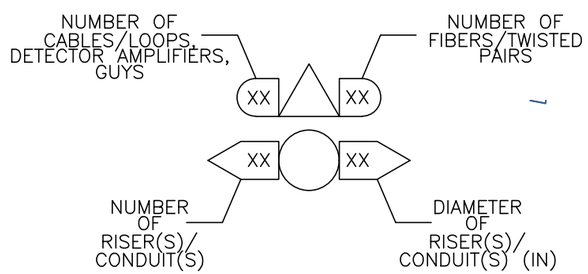
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND N PATRICK STREET SIGNAL COMMUNICATION

SHEET
6–17
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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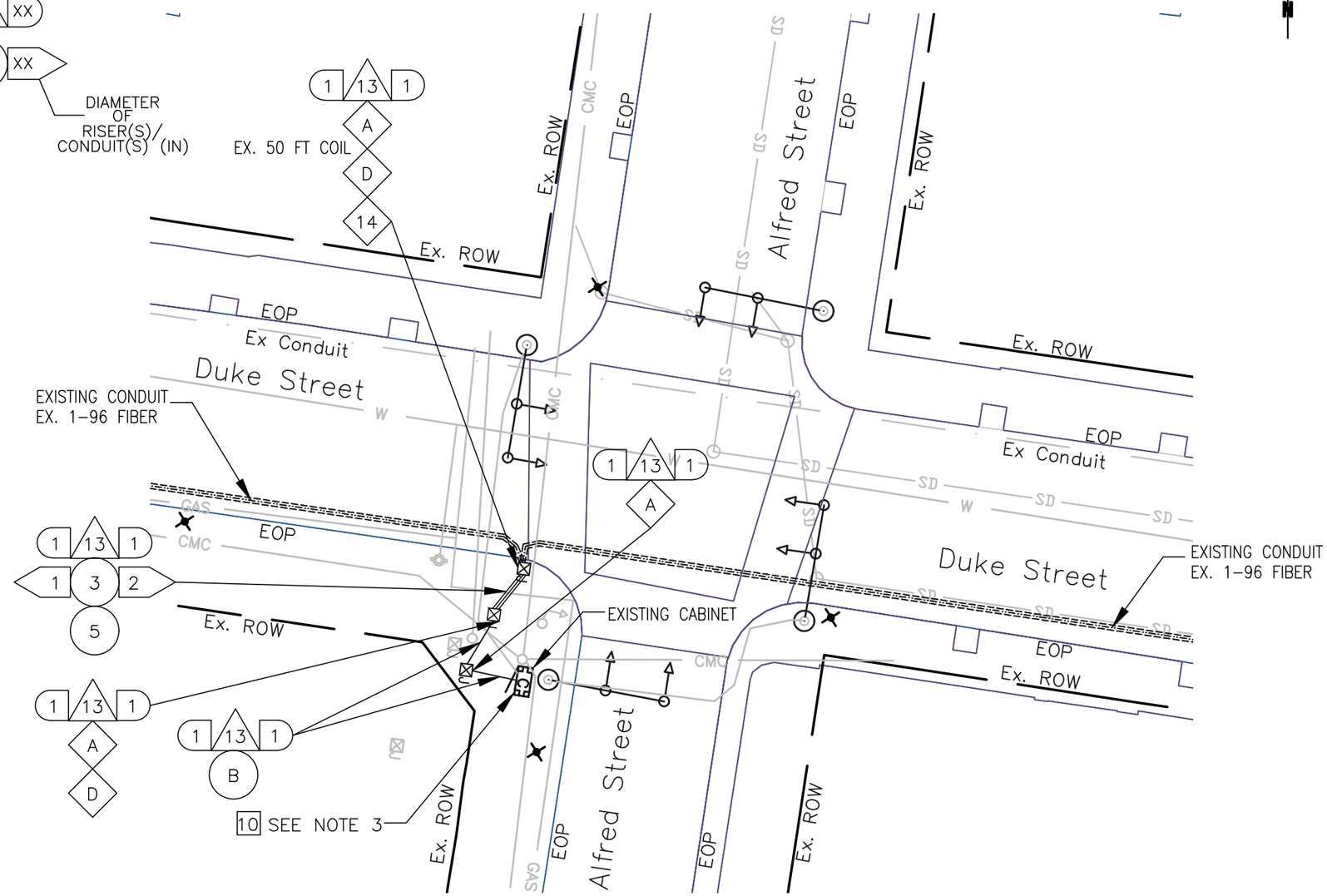

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0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND ALFRED STREET SIGNAL COMMUNICATION

SHEET
6-18
SCALE 1" = 25'

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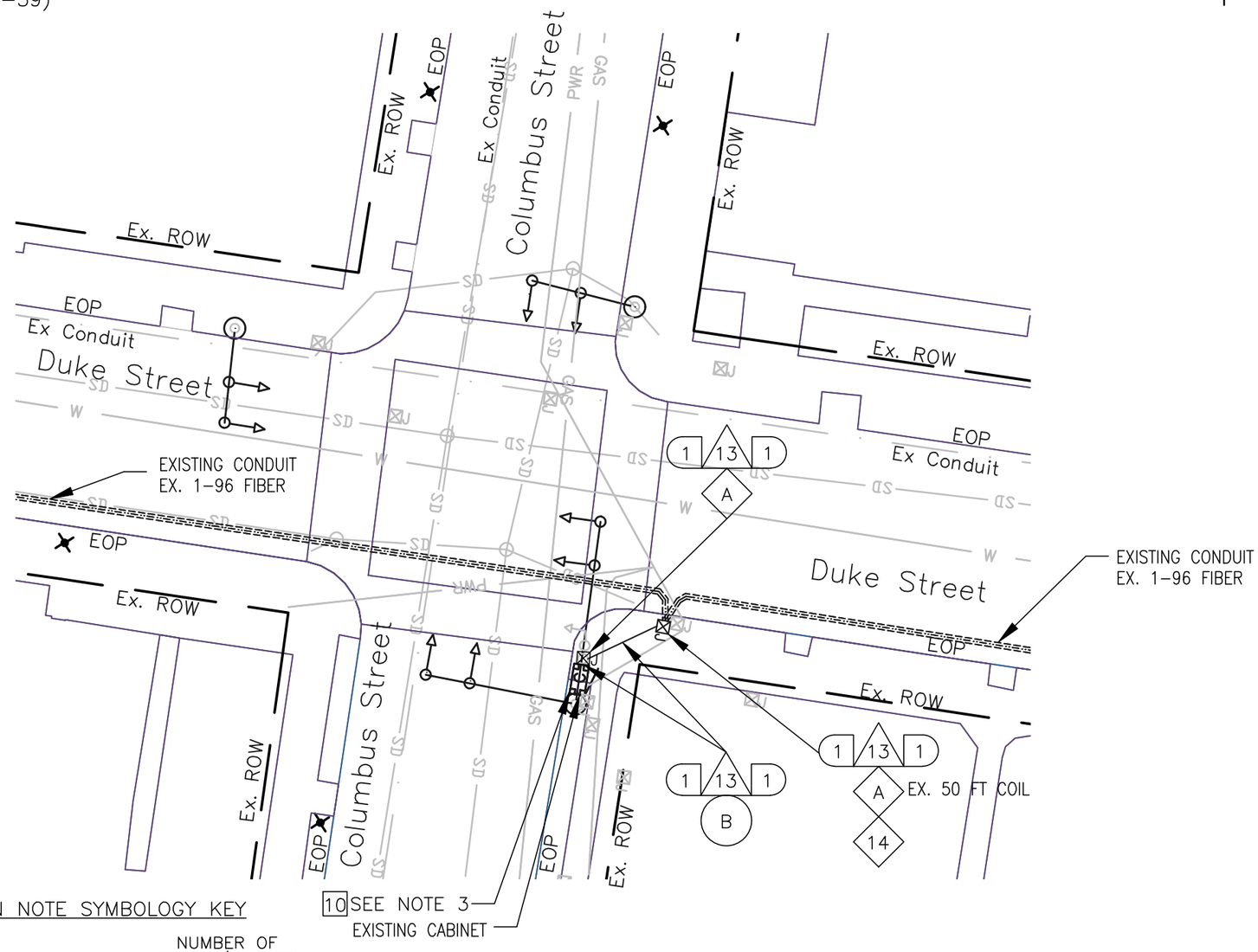

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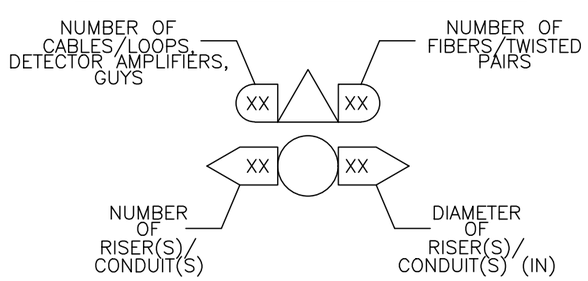

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

DUKE STREET AND COLUMBUS STREET SIGNAL COMMUNICATION

SHEET 6–19

SCALE 1" = 25'

KEY

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- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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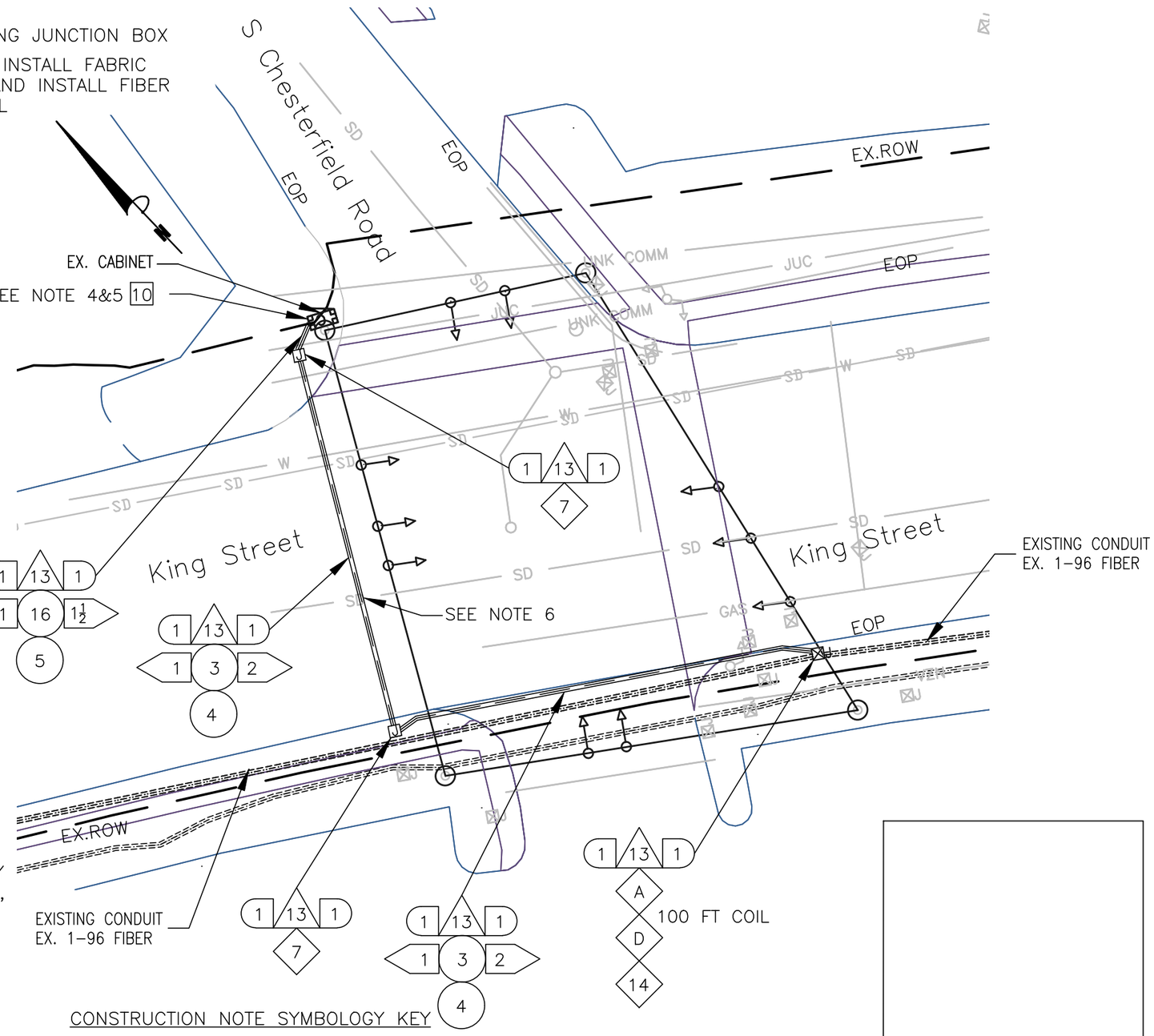
3. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON–RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1–800–522–7001) TICKET A912703326.
4. SEE CABINET DETAIL A (SHEET 6–59).
5. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



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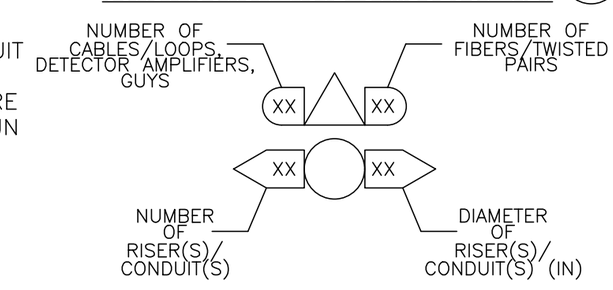

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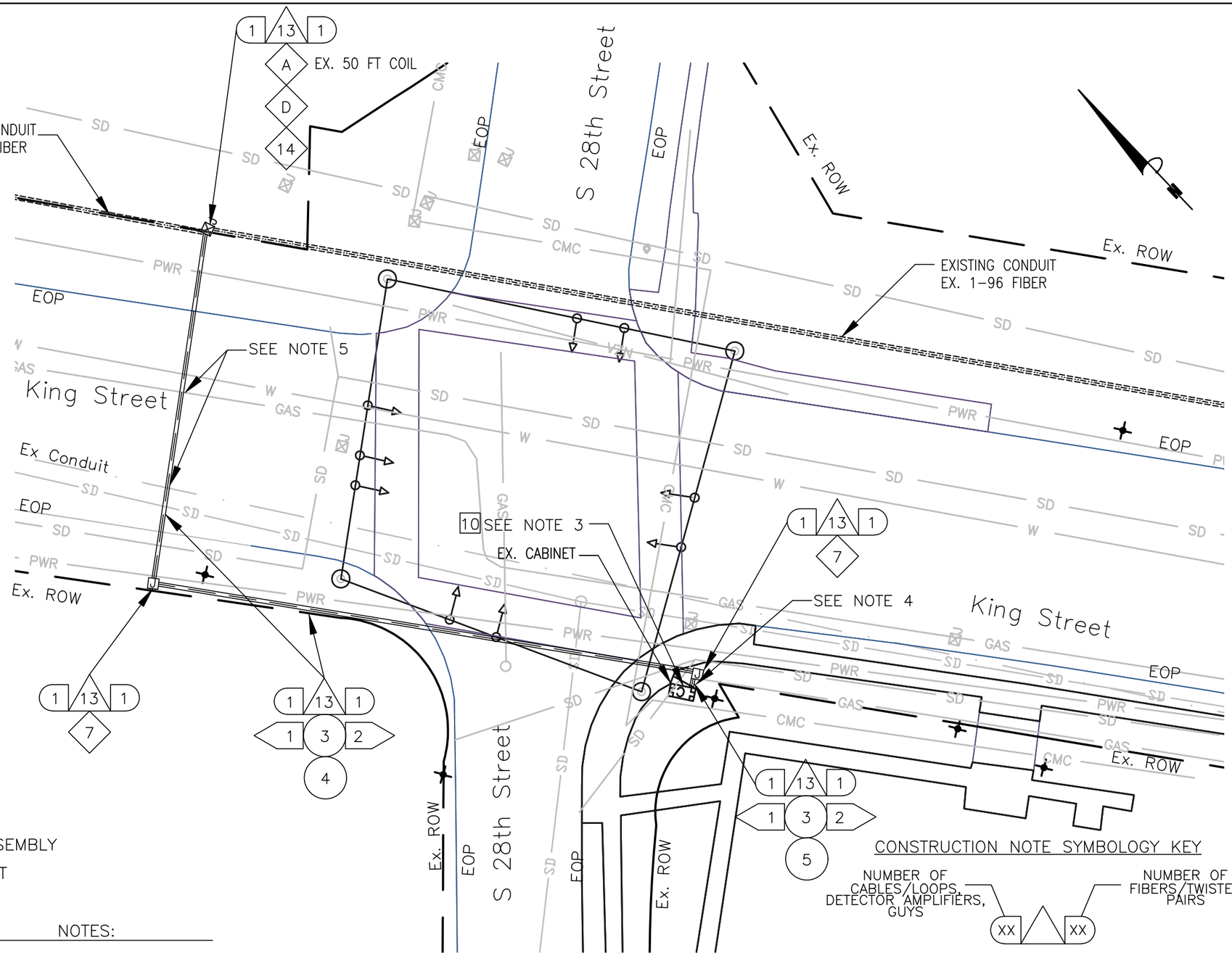
KING STEET AND S CHESTERFIELD ROAD SIGNAL COMMUNICATION

SHEET
6–20
SCALE 1" = 25'



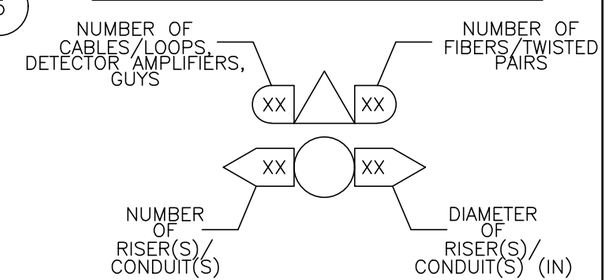
KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

1. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AN UTILITY CHECK PRIOR TO EXCAVATION.
2. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE REQUIRED MOT TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC-35.
3. SEE CABINET DETAIL B (SHEET 6-59).
4. USE EMPTY SPARE CONDUIT STUB IN CABINET FOUNDATION. JB-S2 PLACEMENT WILL BE DETERMINED BY CONDUIT STUB EXIT.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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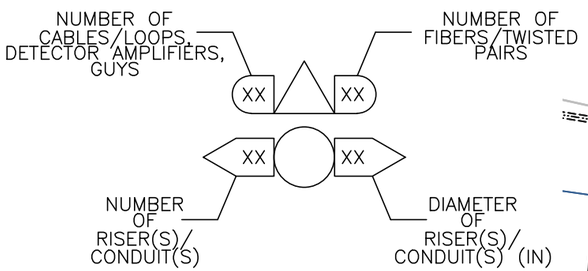
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST AND 28TH STREET SIGNAL COMMUNICATION

SHEET
6-21
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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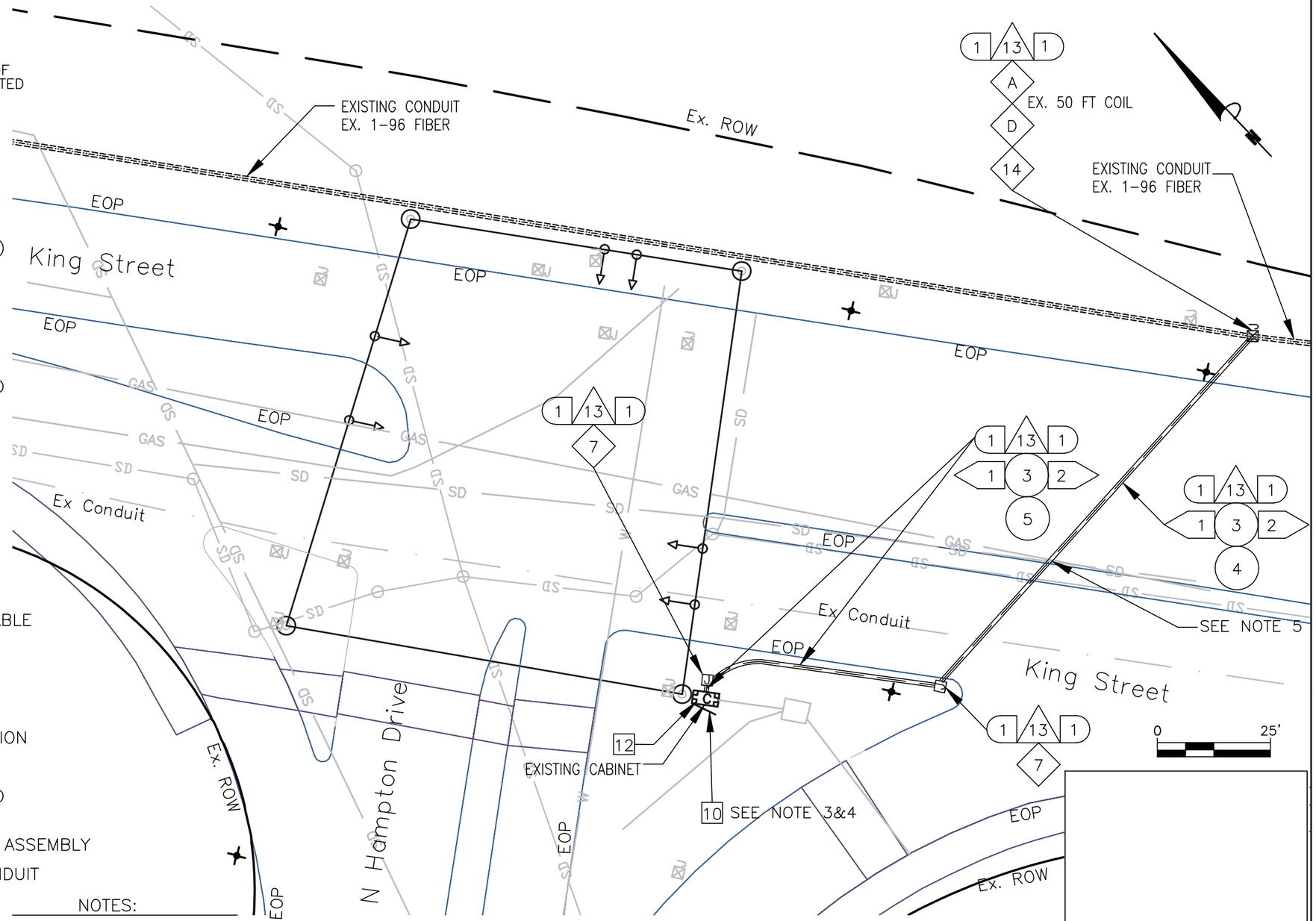

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3. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON-RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1-800-522-7001) TICKET A912702394.
4. SEE CABINET DETAIL B (SHEET 6-59)
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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KING STREET AND HAMPTON DRIVE SIGNAL COMMUNICATION

SHEET
6-22
SCALE 1" = 25'

NOTES:

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6. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

KEY

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- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
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- [11] FURNISH AND INSTALL NEW CABINET
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- (13) FURNISH & INSTALL PON DROP CABLE
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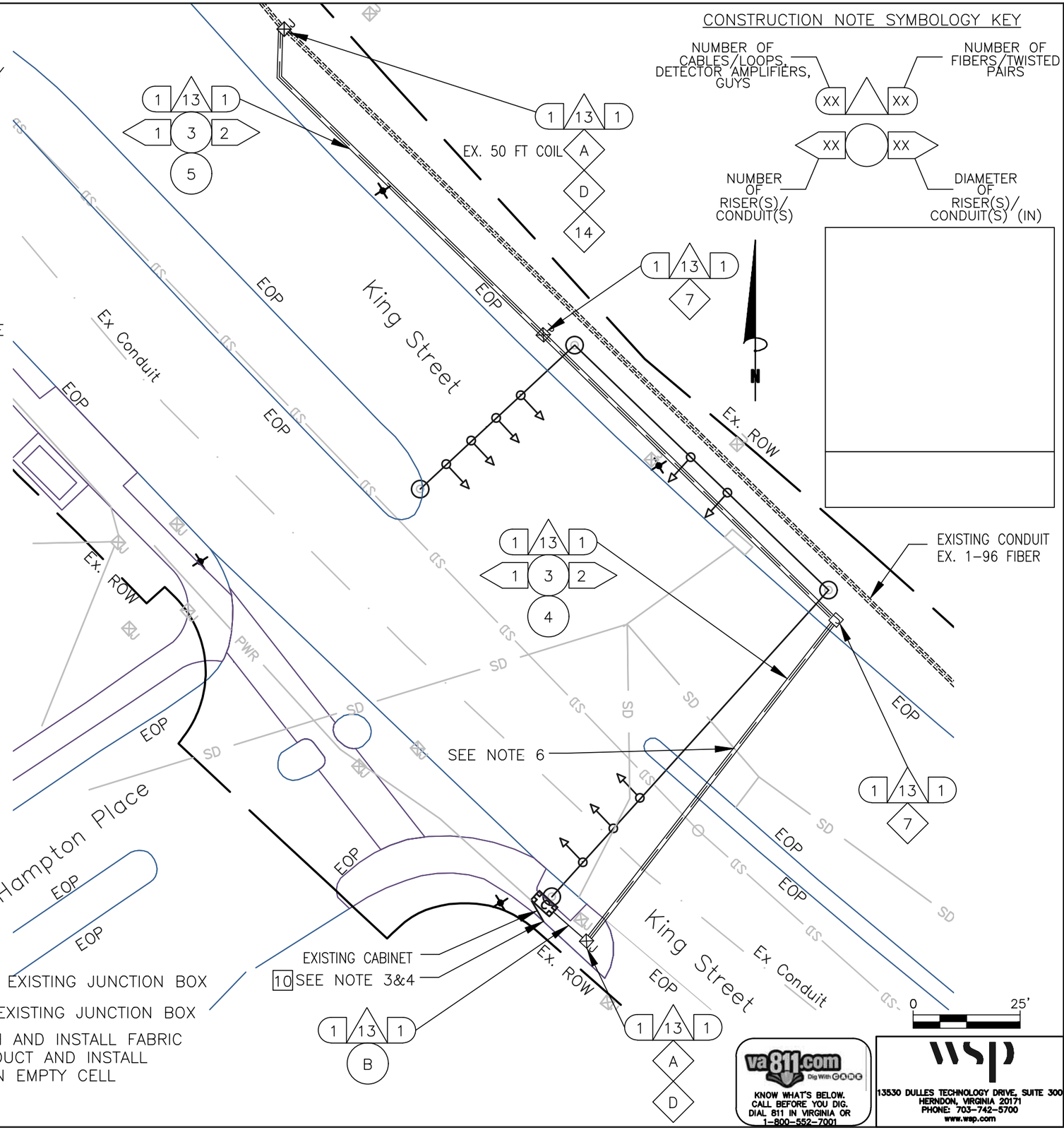
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS — NUMBER OF FIBERS/TWISTED PAIRS

NUMBER OF RISER(S)/ CONDUIT(S) — DIAMETER OF RISER(S)/ CONDUIT(S) (IN)

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING STREET AND HAMPTON PLACE SIGNAL COMMUNICATION

SHEET
6–23
SCALE 1" = 25'

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6–59)

KEY

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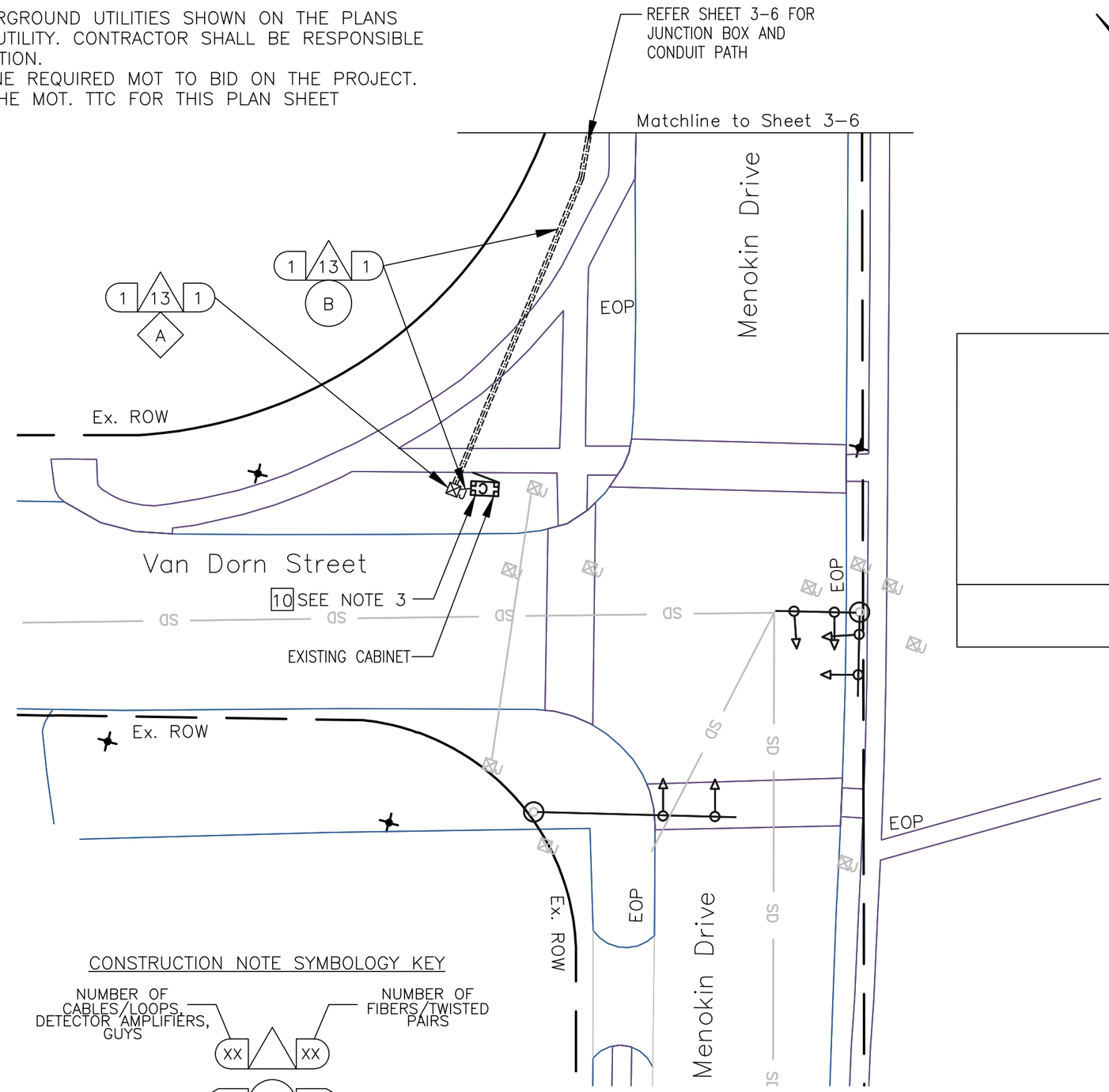
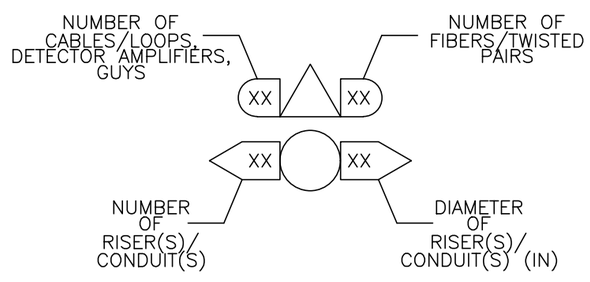


CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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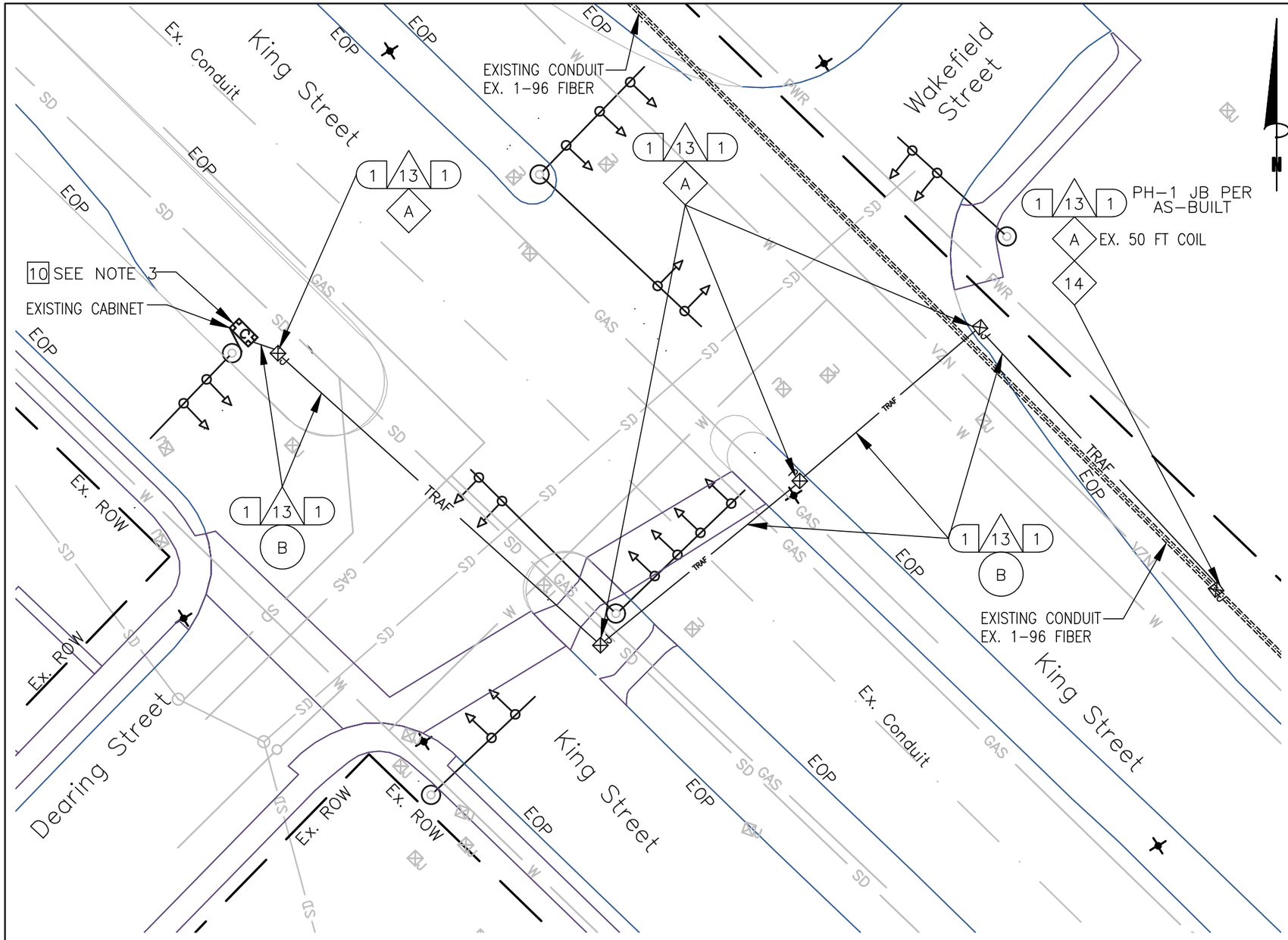
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

VAN DORN STREET AND MENOKIN DRIVE SIGNAL COMMUNICATION

SHEET 6–24

SCALE 1" = 25'



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NOTES:

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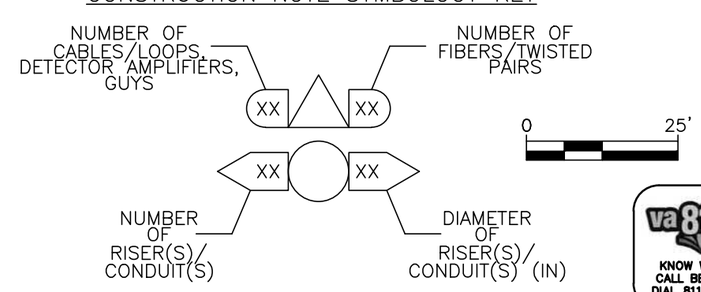
3. SEE CABINET DETAIL B (SHEET 6-59)

CONSTRUCTION NOTE SYMBOLOGY KEY



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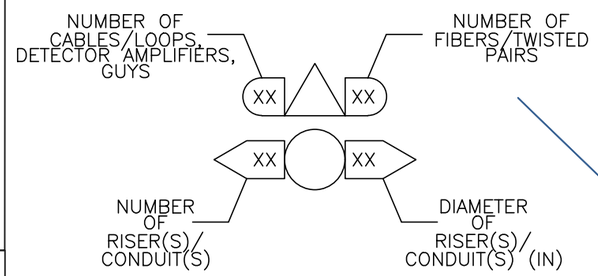
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING STREET AND
DEARING STREET/WAKEFIELD STREET
SIGNAL COMMUNICATION

SHEET
6-25
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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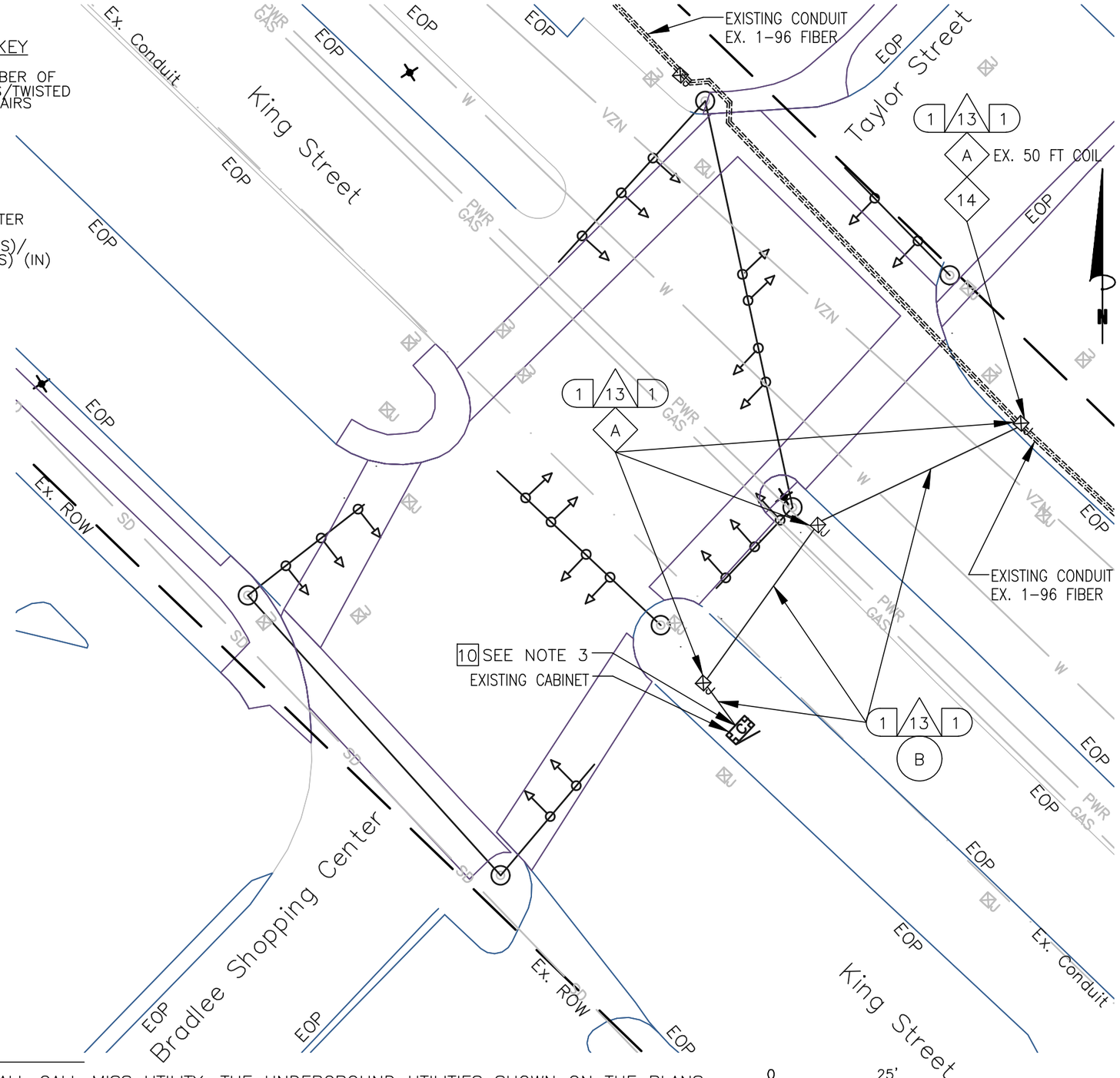

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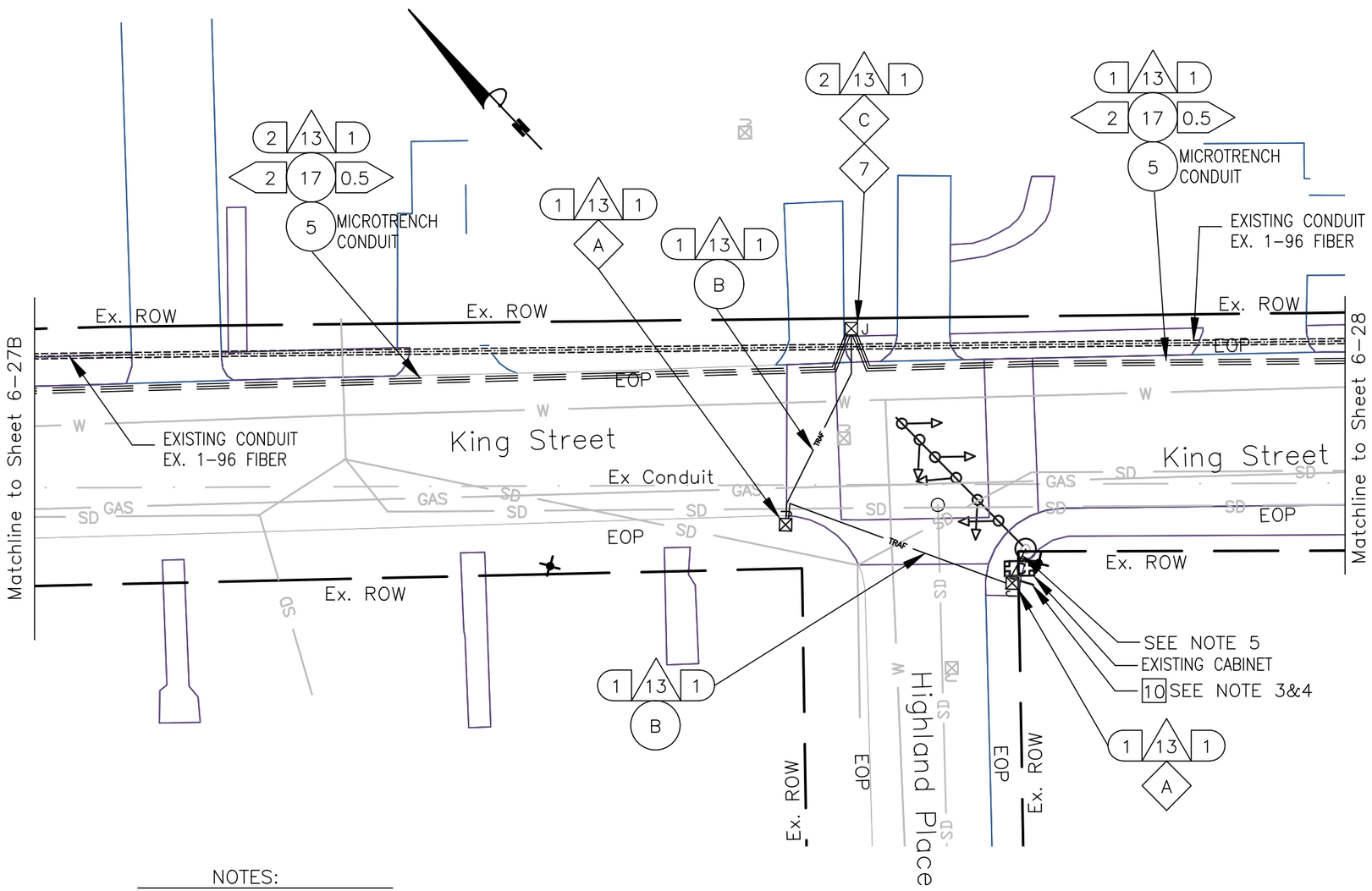
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST AND TAYLOR STREET/ BRADLEE SHOPPING CENTER SIGNAL COMMUNICATION

SHEET
6-26
SCALE 1" = 25'



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16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

A. EXISTING JUNCTION BOX
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
E. INSTALL IN EMPTY CELL OF EXISTING FABRIC INNER-DUCT
F. FURNISH AND INSTALL IN EMPTY CELL OF EXISTING FABRIC INNER-DUCT
17. FURNISH AND INSTALL CONDUIT IN MICRO TRENCH

NOTES:

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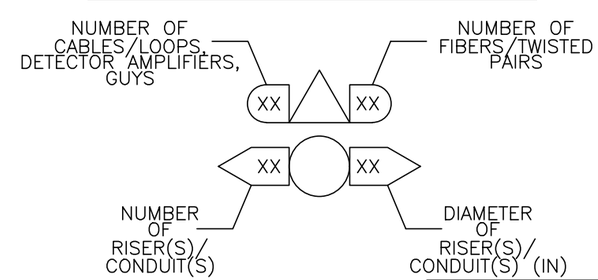
3. SEE CABINET DETAIL A (SHEET 6-59).
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB-S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB-S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
5. INSTALL 1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT WHIP FROM POLE TO CABINET FOR FLAT DROP CABLE.

CONSTRUCTION NOTE SYMBOLOGY KEY



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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS		
DATE	BY	DESCRIPTION

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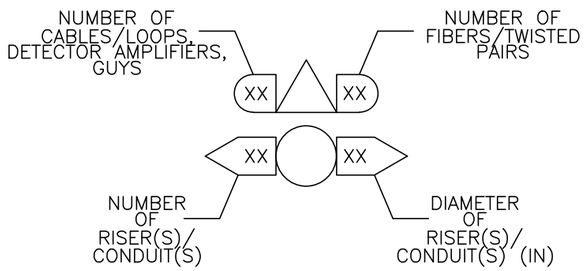
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST AND HIGHLAND PLACE SIGNAL COMMUNICATION

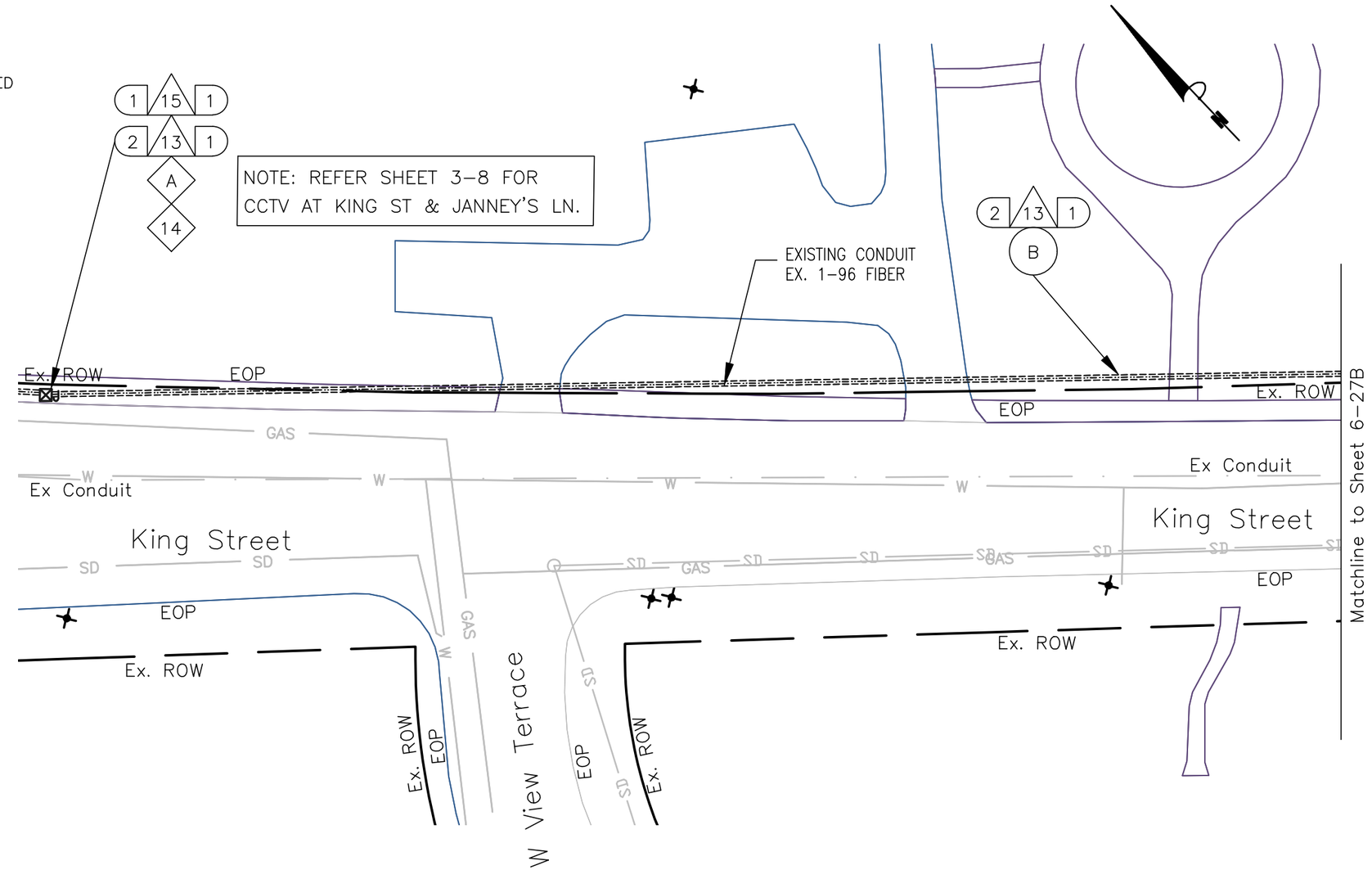
SHEET
6-27
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL
- (17) FURNISH AND INSTALL CONDUIT IN MICRO TRENCH



NOTES:

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0 25'

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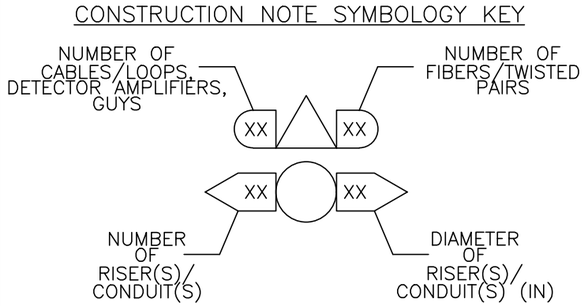
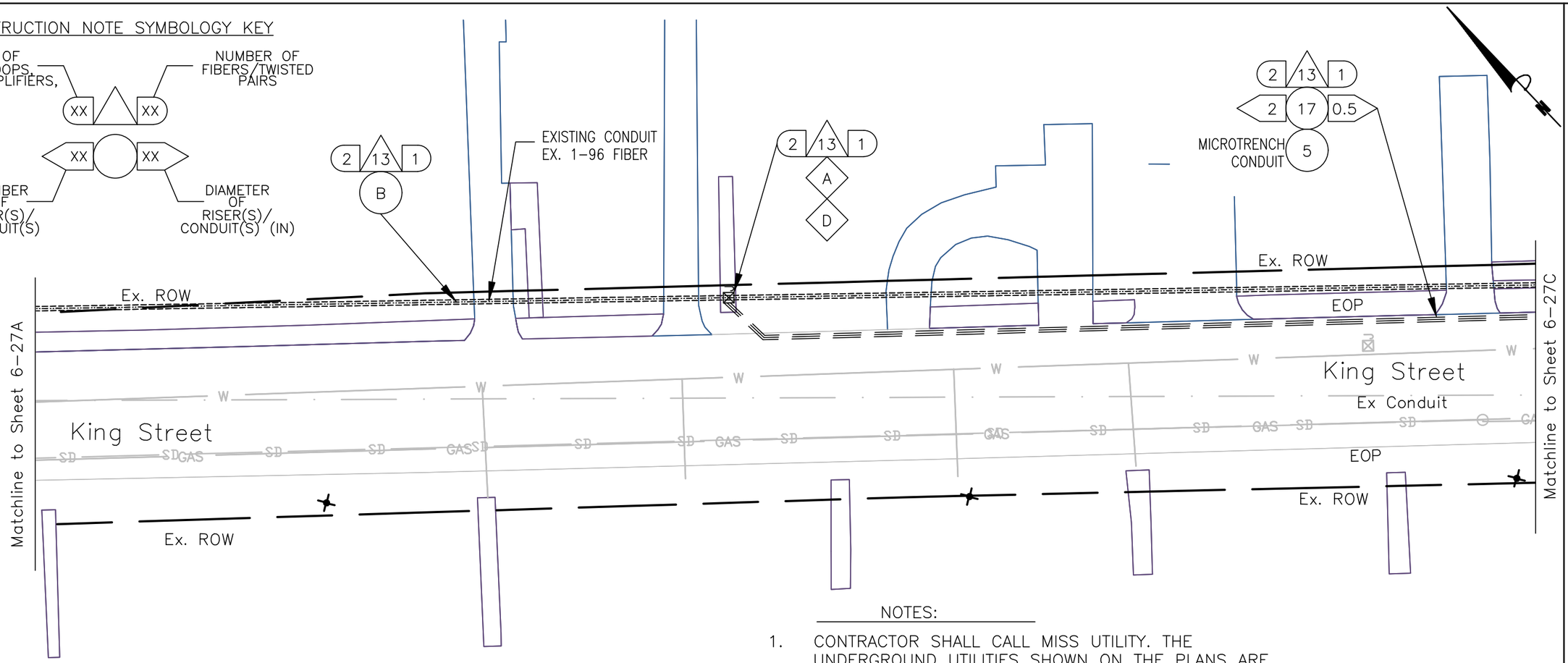
KING ST AND W VIEW TERRACE SIGNAL COMMUNICATION

SHEET
6-27A
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





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KEY

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- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL
- 17 FURNISH AND INSTALL CONDUIT IN MICRO TRENCH

0 25'

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ALEXANDRIA, VIRGINIA 22313

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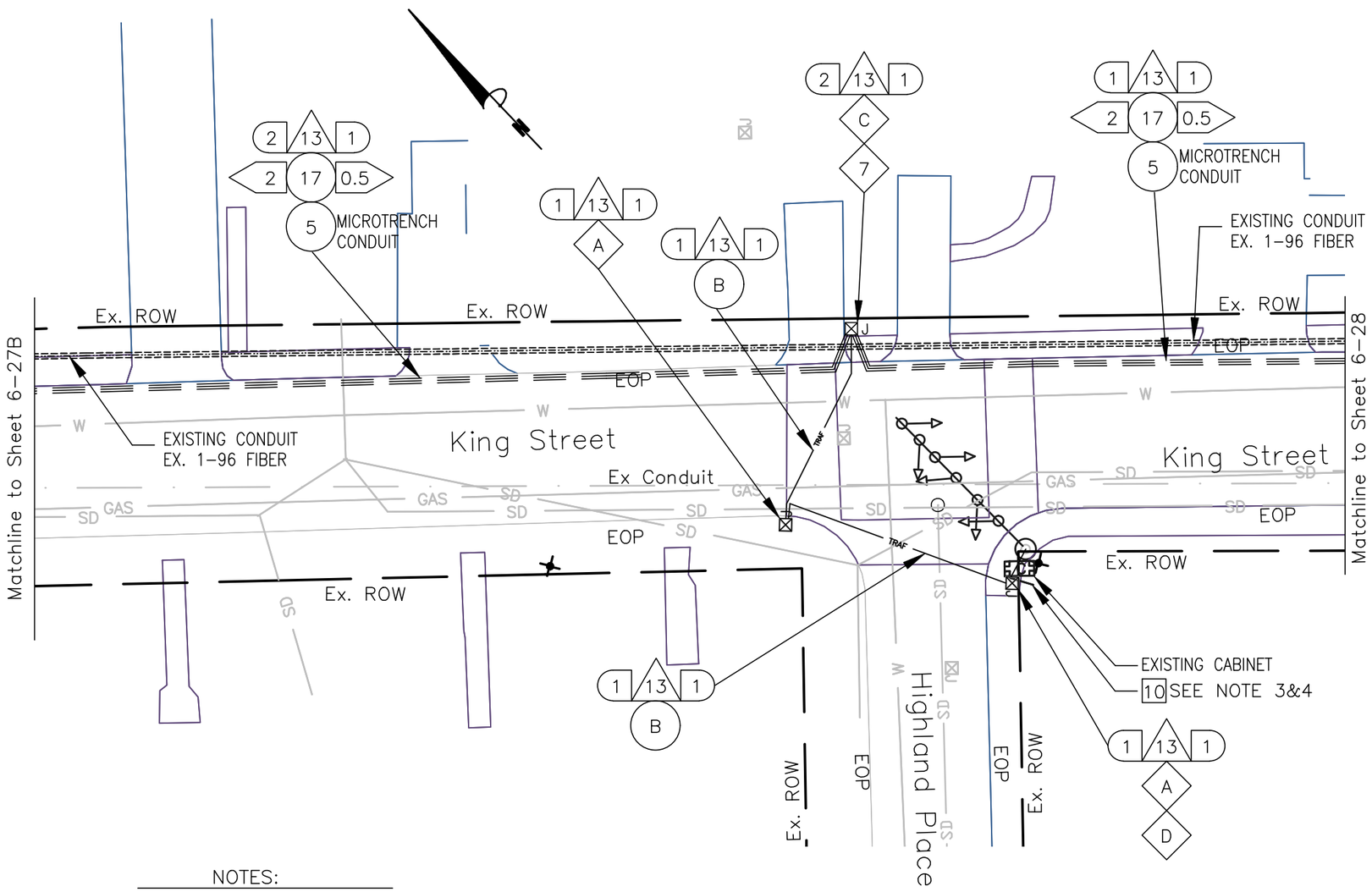
KING ST BETWEEN W VIEW TERRACE AND HIGHLAND PLACE SIGNAL COMMUNICATION

SHEET
6-27B
SCALE 1" = 25'



KEY

1. FURNISH & INSTALL NEW SMFO CABLE
2. FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
3. FURNISH & INSTALL NEW PE CONDUIT
4. DIRECTIONAL DRILL
5. TRENCH/SAW CUT
6. FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
7. FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
8. FURNISH & INSTALL HYBRID CAMERA CABLE
9. FURNISH & INSTALL CCTV CAMERA
10. FURNISH & INSTALL NEW EQUIPMENT
11. FURNISH AND INSTALL NEW CABINET
12. CORE DRILL EXISTING CABINET FOUNDATION
13. FURNISH & INSTALL PON DROP CABLE
14. FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL
17. FURNISH AND INSTALL CONDUIT IN MICRO TRENCH

NOTES:

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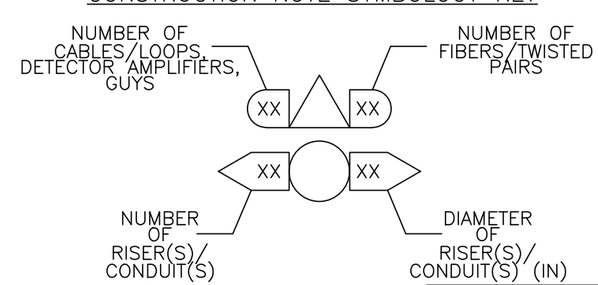
3. SEE CABINET DETAIL A (SHEET 6-59).
4. ENTER POLE BASE VIA CONDUIT FROM EXISTING JB. INSTALL 1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT WHIP FROM POLE TO CABINET FOR FLAT DROP CABLE.

CONSTRUCTION NOTE SYMBOLOGY KEY



0 25'

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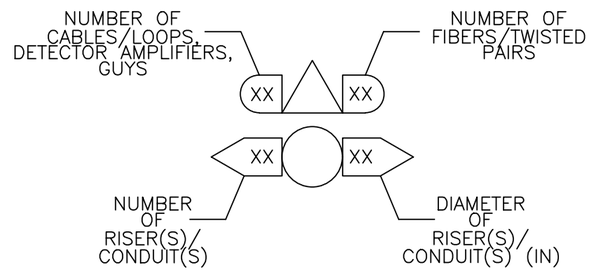
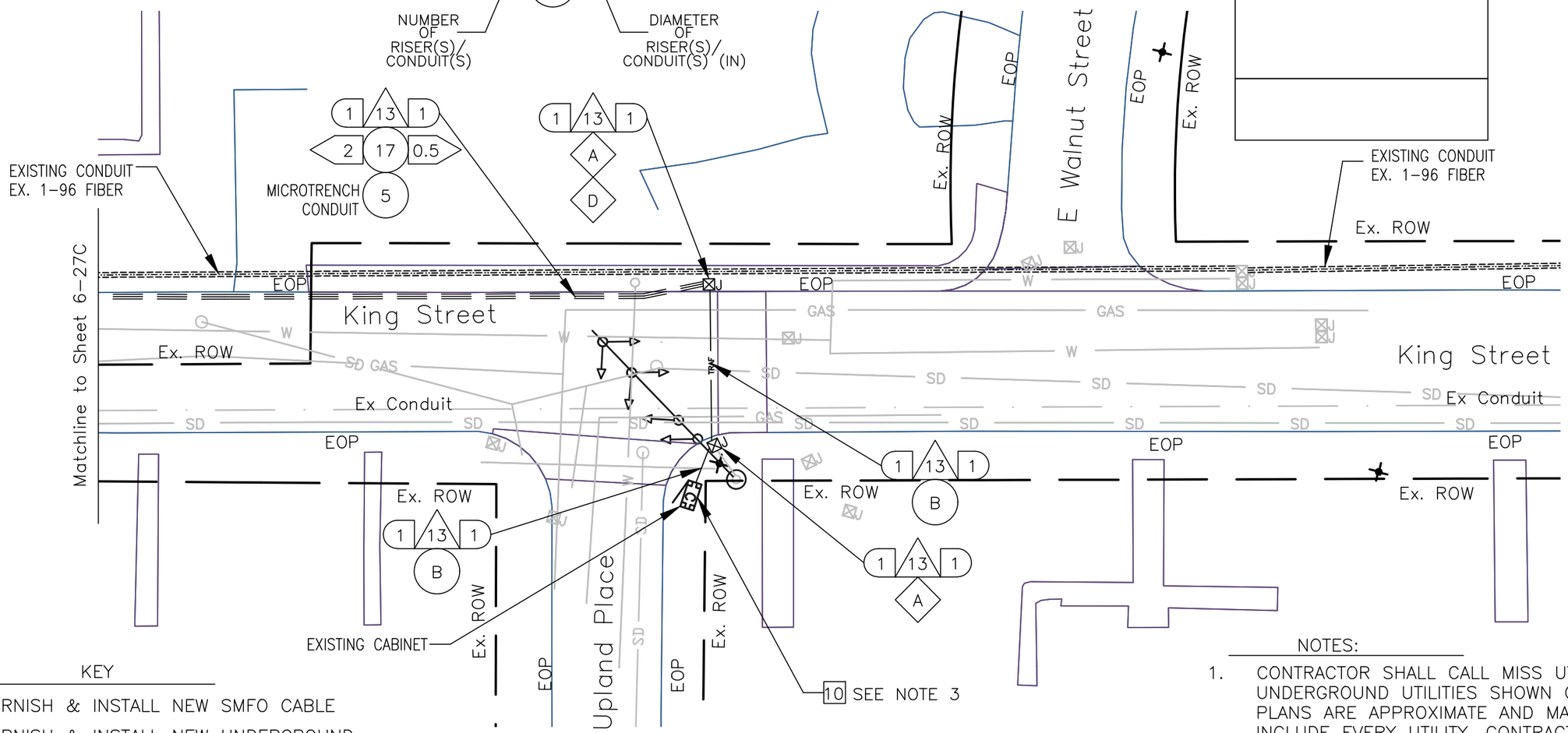
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST AND HIGHLAND PLACE
SIGNAL COMMUNICATION

SHEET
6-27C
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





KEY

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- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
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- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- 7 FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL
- 17 FURNISH AND INSTALL CONDUIT IN MICRO TRENCH

0 25'

NOTES:

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3. SEE CABINET DETAIL B (SHEET 6-59).

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

KING ST AND UPLAND PLACE SIGNAL COMMUNICATION

SHEET
6-28
SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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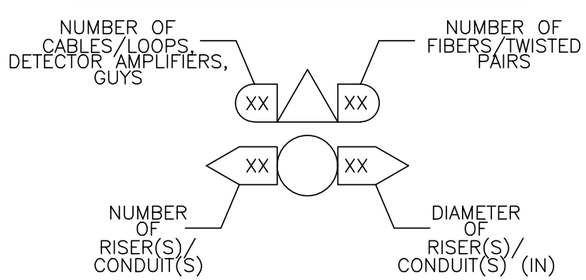
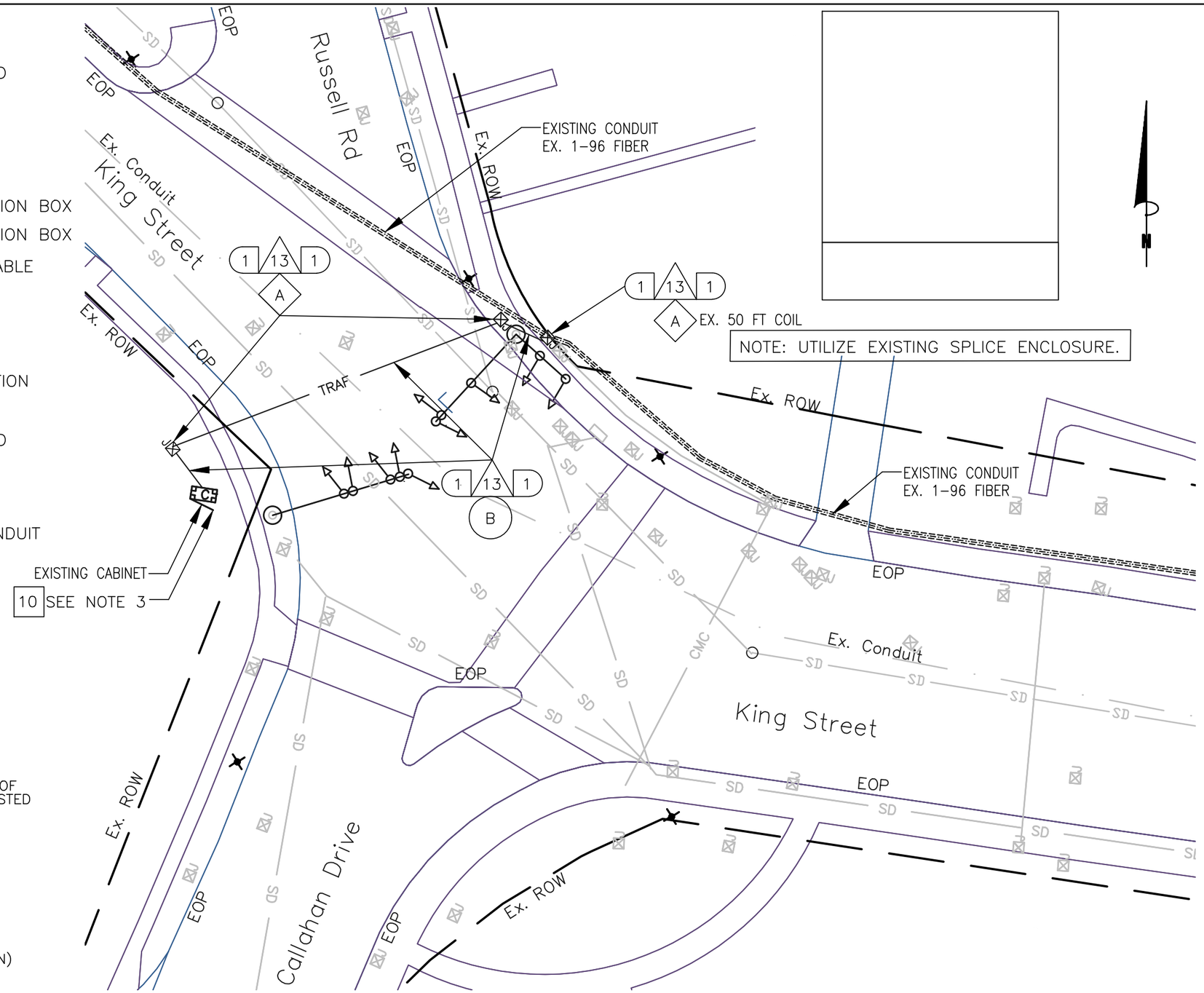
CONSTRUCTION NOTE SYMBOLOGY KEY





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3. SEE CABINET DETAIL B (SHEET 6-59)
4. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON-RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1-800-522-7001) TICKET A912702394.

0 25'

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KING STREET AND
RUSSELL STREET/CALLAHAN DRIVE
SIGNAL COMMUNICATION

SHEET
6-29
SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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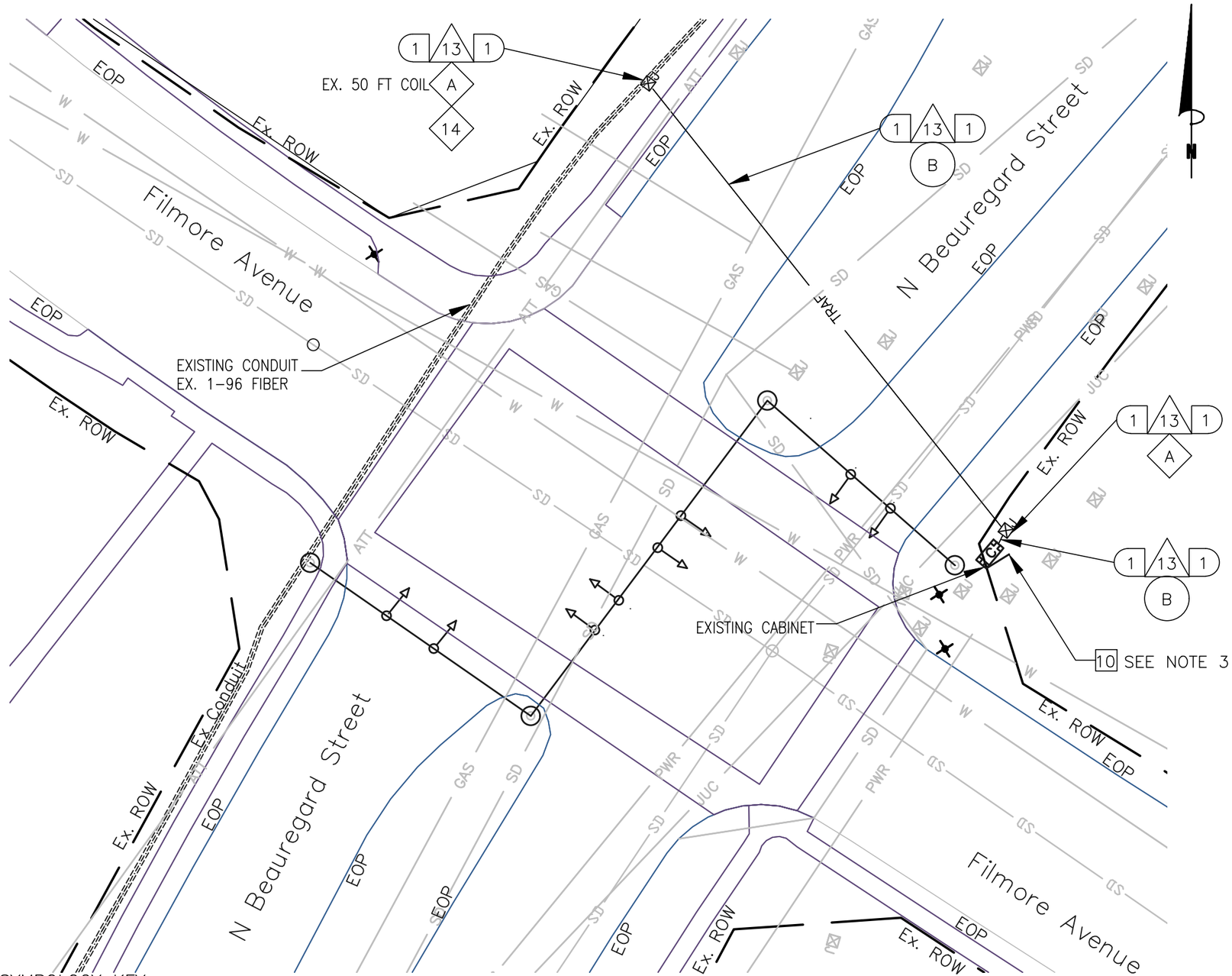

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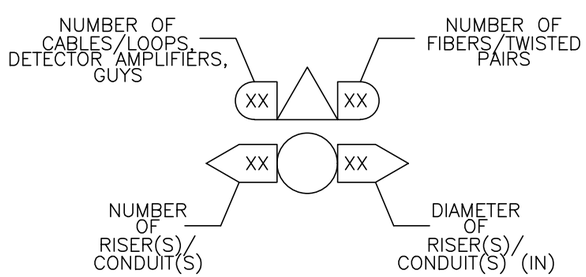

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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

N BEAUREGARD STREET AND FILLMORE AVENUE SIGNAL COMMUNICATION

SHEET
6-30
SCALE 1" = 25'

KEY

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- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
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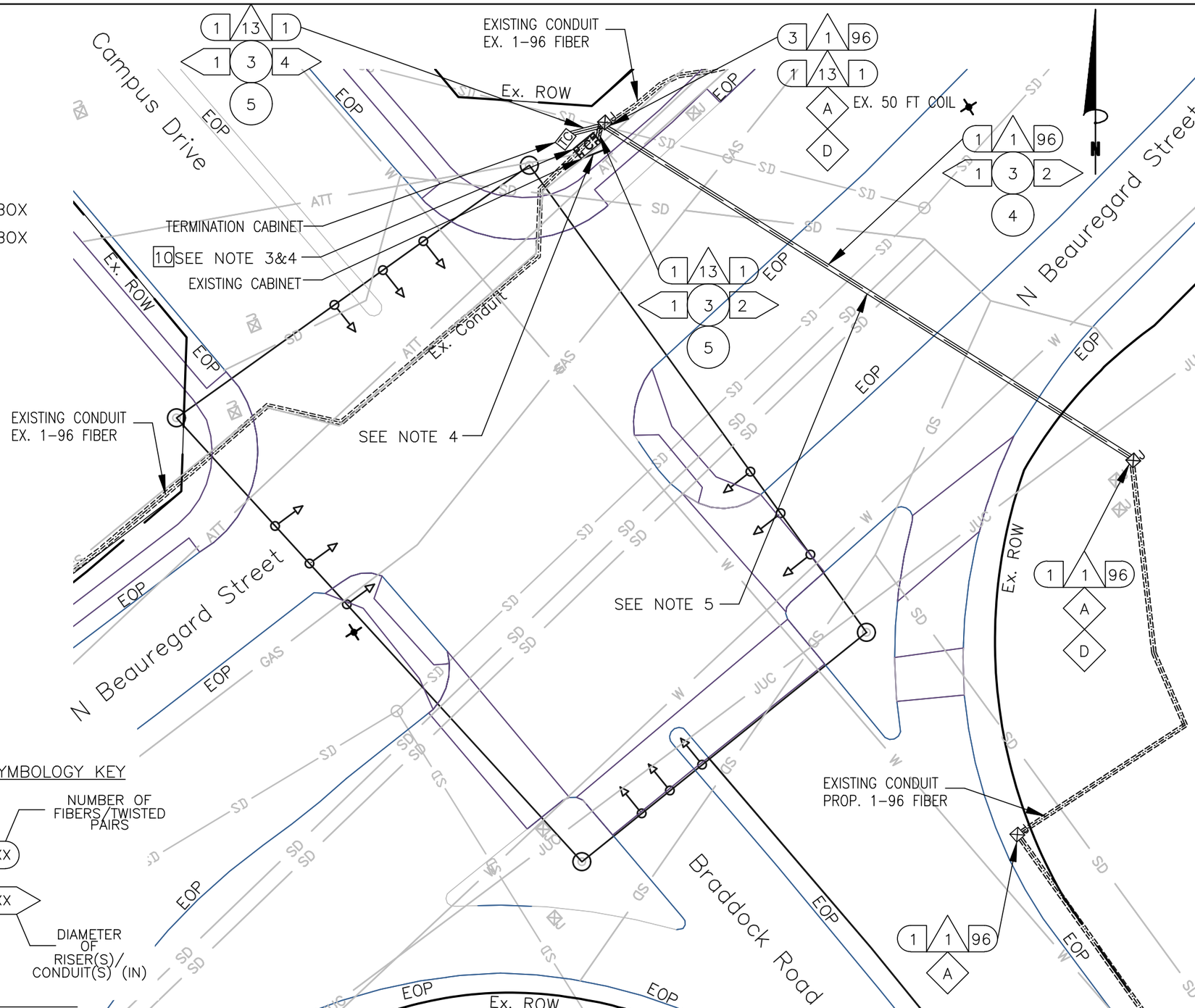
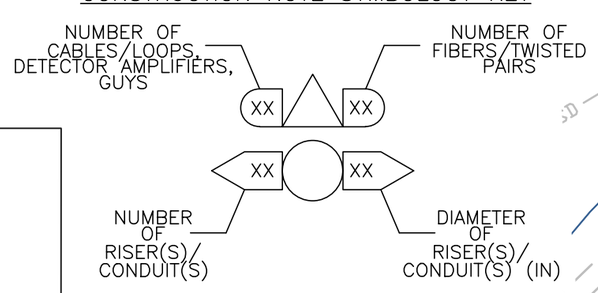
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY



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3. INTERCEPT EMPTY SPARE CONDUIT STUBS IN CABINET FOUNDATION.
4. SPLICE FIBER ON BRADDOCK RD WITH EXISTING FIBER ON BEAUREGARD ST.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AG DATE: 7/24/20
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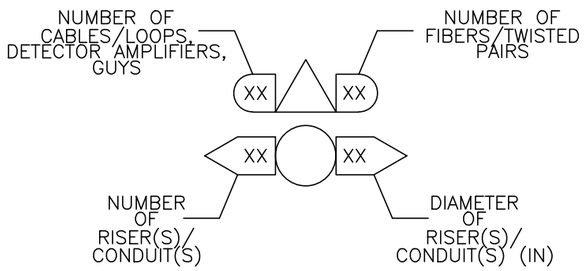
APPROVED BY: XX DATE: 7/24/20

ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

N BEAUREGARD STREET AND BRADDOCK ROAD/CAMPUS DR SIGNAL COMMUNICATION

SHEET
6-31
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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3. SEE CABINET DETAIL B (SHEET 6-59)

KEY

- (1) FURNISH & INSTALL NEW SMFO CABLE
- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S3)
- (7) FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S2)
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
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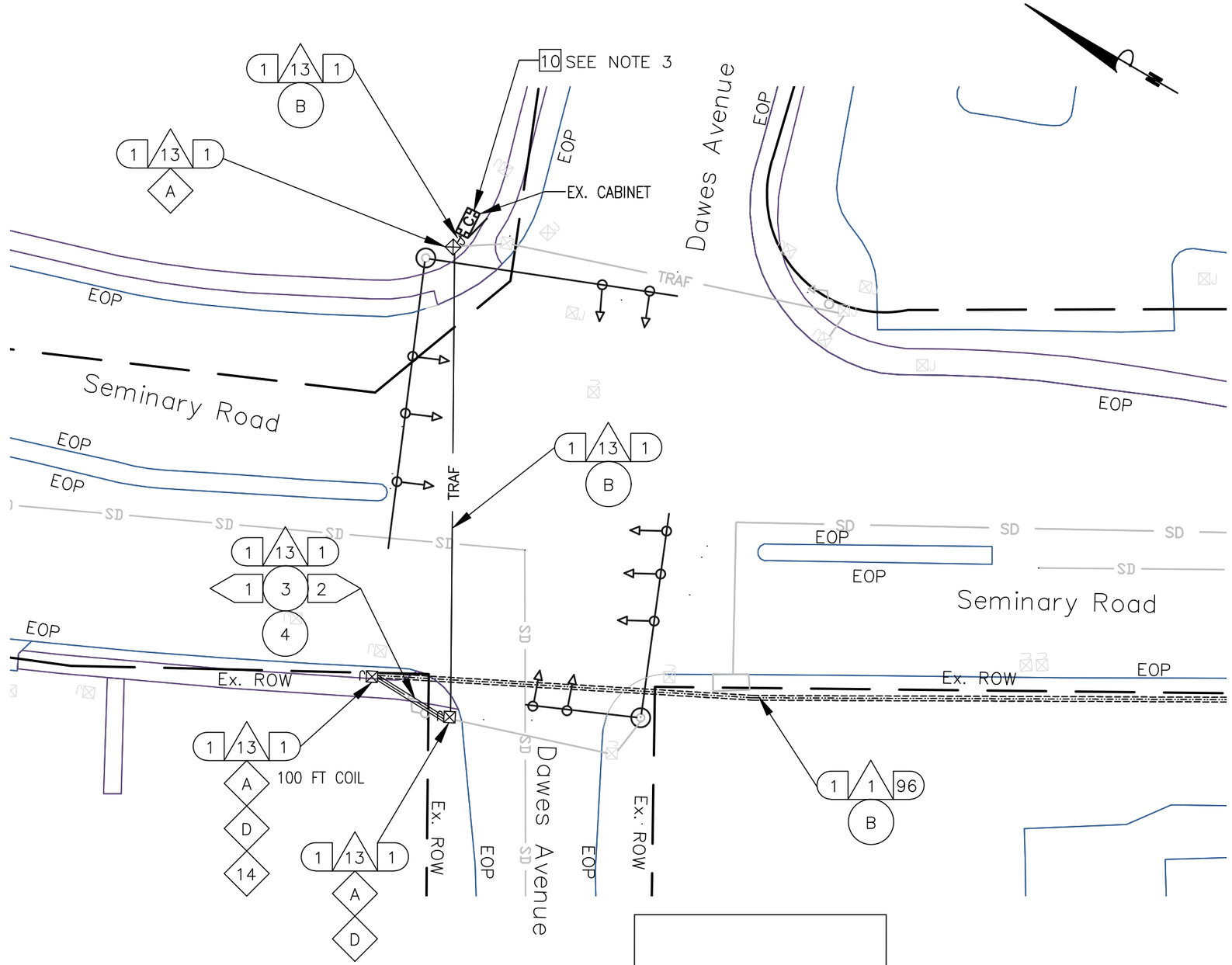

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND DAWES AVENUE SIGNAL COMMUNICATION

SHEET
6-32
SCALE 1" = 25'

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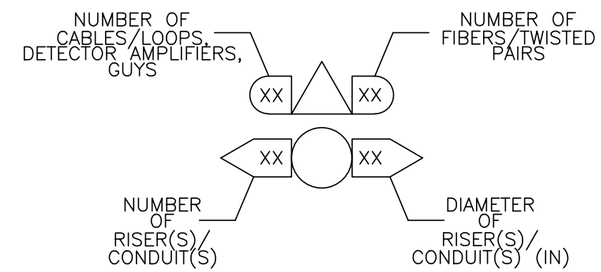
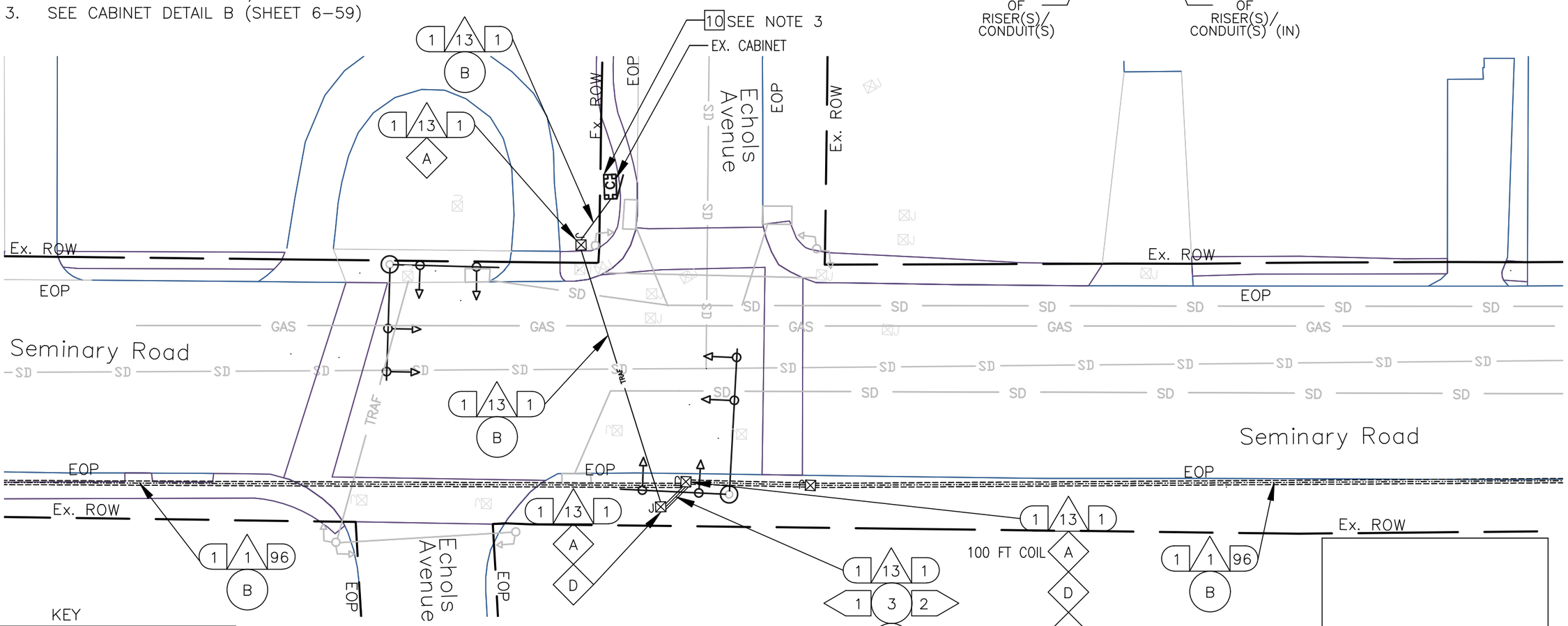
3. SEE CABINET DETAIL B (SHEET 6-59)

CONSTRUCTION NOTE SYMBOLOGY KEY





KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S3)
- 7 FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S2)
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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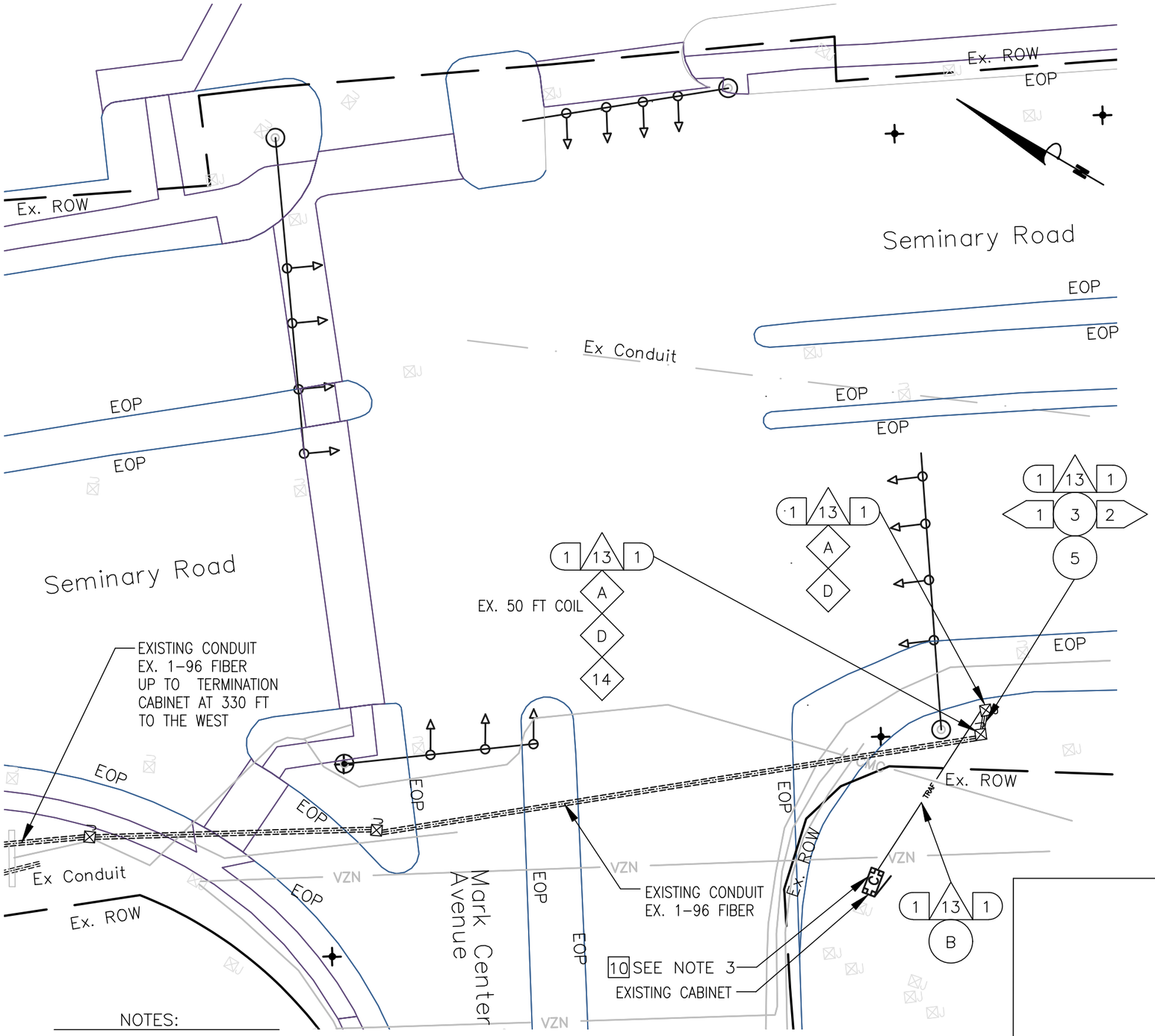
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND ECHOLS AVENUE SIGNAL COMMUNICATION

SHEET 6-33

SCALE 1" = 25'



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- B EXISTING CONDUIT
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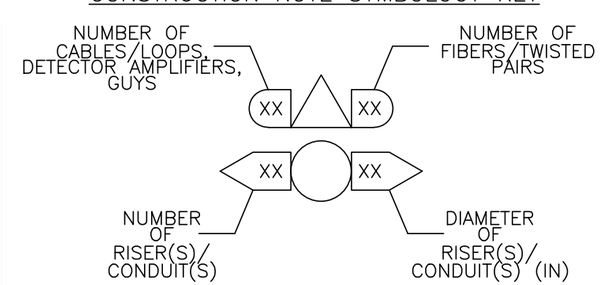
CONSTRUCTION NOTE SYMBOLOGY KEY



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3. SEE CABINET DETAIL B (SHEET 6-59)

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND MARK CENTER AVENUE SIGNAL COMMUNICATION

SHEET
6-34
SCALE 1" = 25'

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3. SEE CABINET DETAIL B (SHEET 6–59)
4. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

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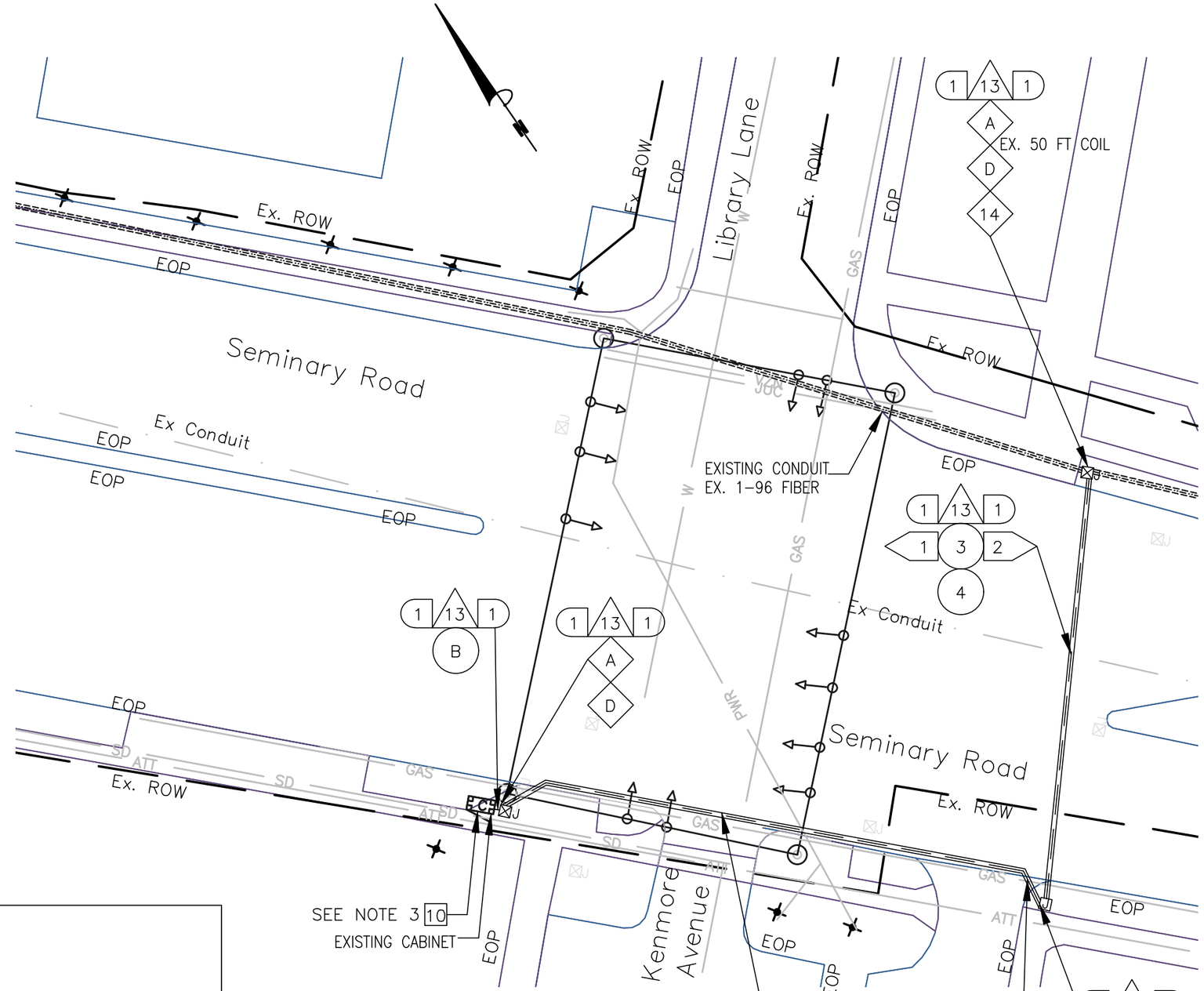
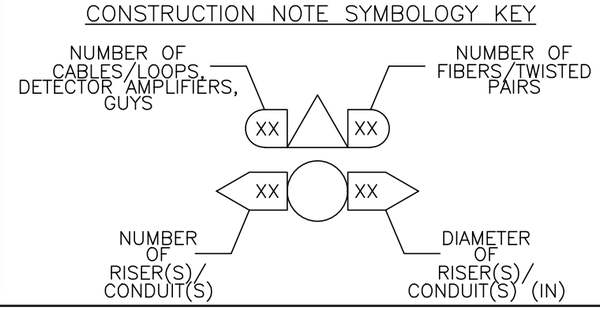


CONSTRUCTION NOTE SYMBOLOGY KEY



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SEMINARY ROAD
AND LIBRARY LANE\KENMORE AVE
SIGNAL COMMUNICATION

SHEET
6–35

SCALE 1" = 25'

KEY

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- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
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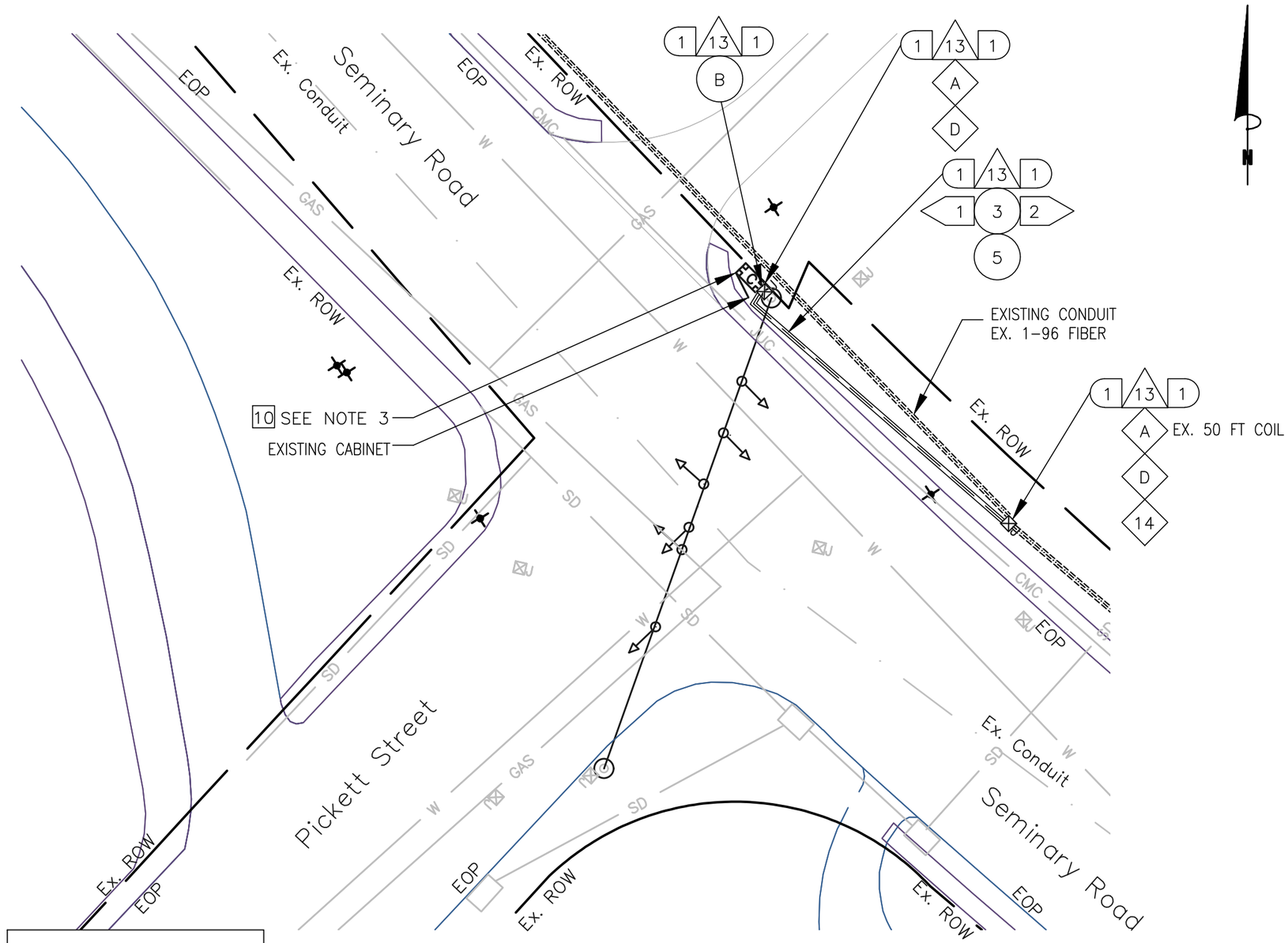

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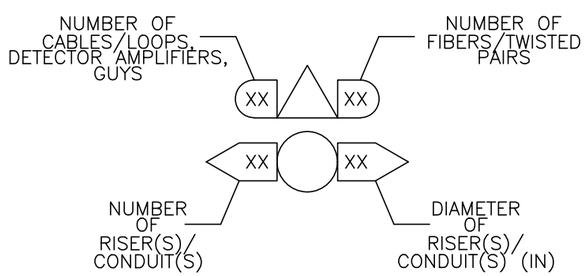

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0 25'

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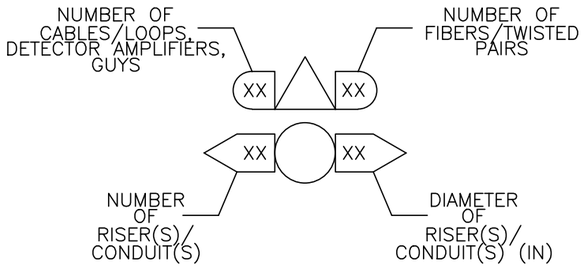
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND PICKETT STREET SIGNAL COMMUNICATION

SHEET
6–36
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
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- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
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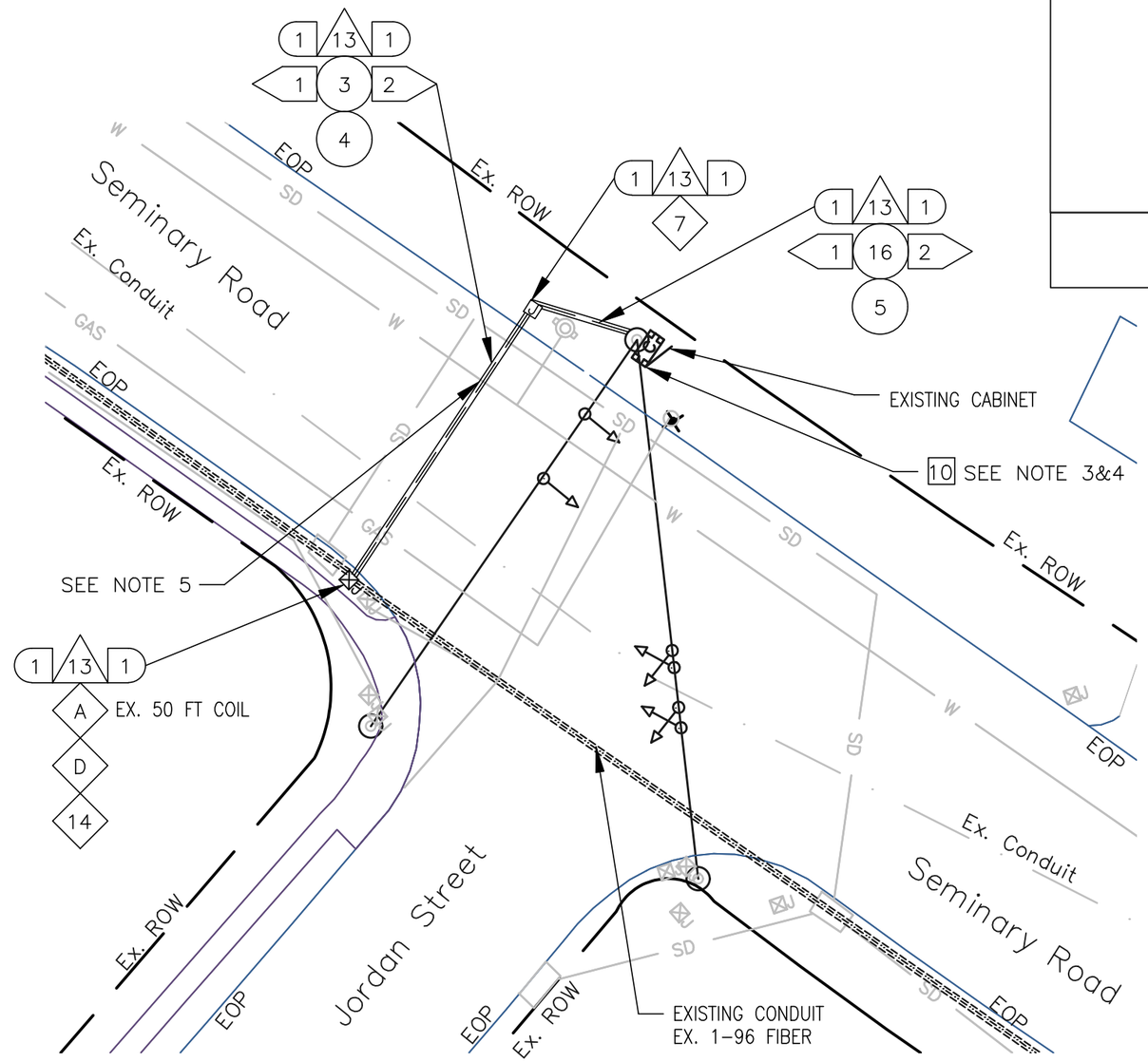
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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3. SEE CABINET DETAIL A (SHEET 6-59)
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB-S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB-S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND JORDAN STREET SIGNAL COMMUNICATION

SHEET
6-37
SCALE 1" = 25'

KEY

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- (2) FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- (3) FURNISH & INSTALL NEW PE CONDUIT
- (4) DIRECTIONAL DRILL
- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

NOTES:

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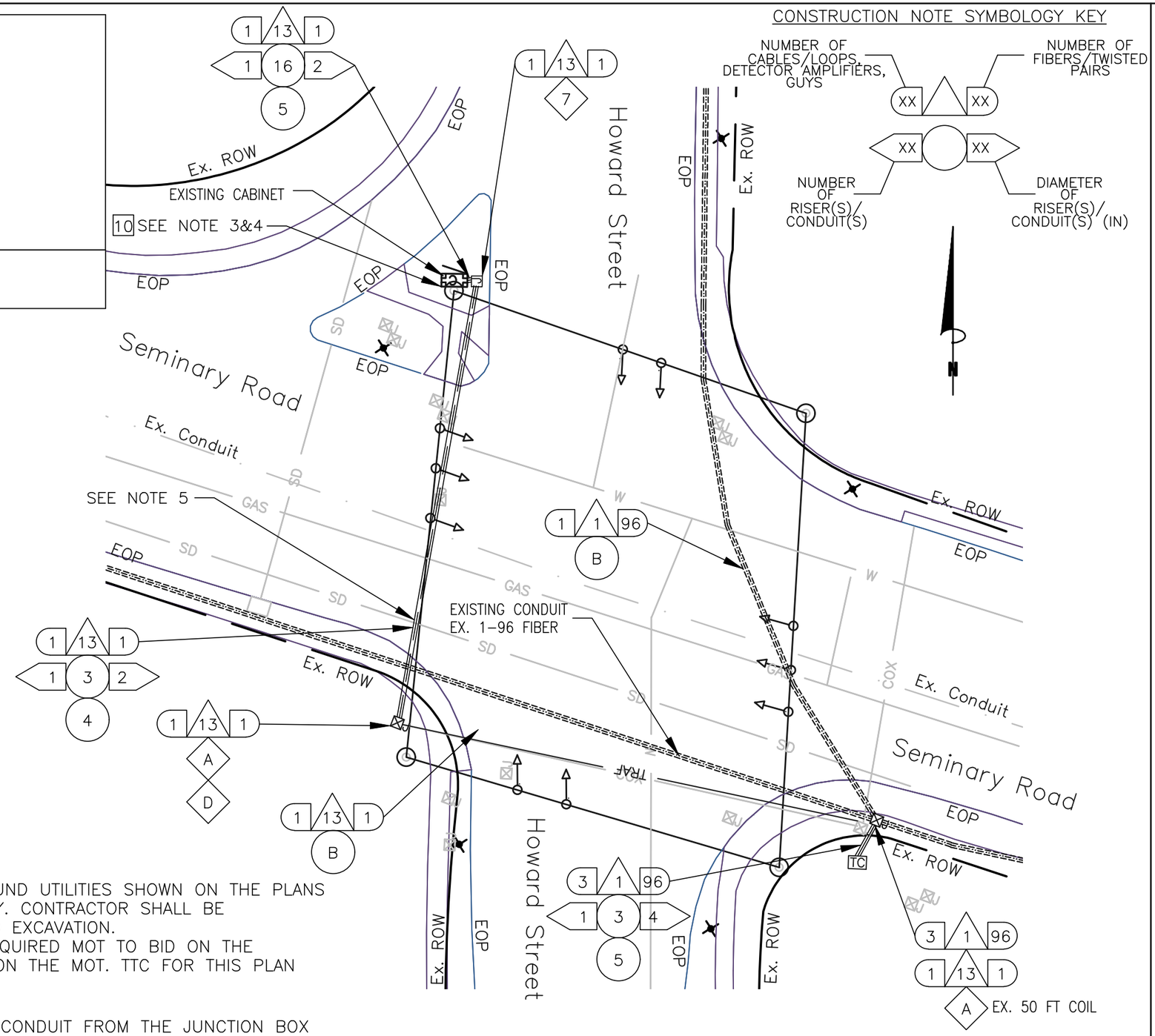
3. SEE CABINET DETAIL A (SHEET 6–59).
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.



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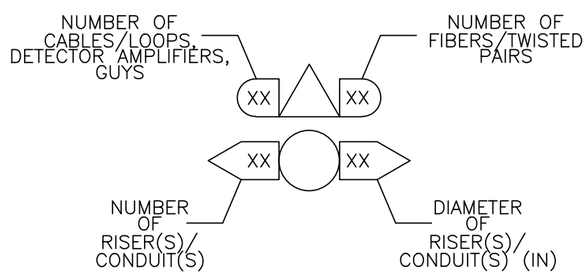
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND HOWARD STREET SIGNAL COMMUNICATION

SHEET
6–38
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



KEY

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- (5) TRENCH/SAW CUT
- (6) FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
- (7) FURNISH & INSTALL NEW JB-S2 JUNCTION BOX
- (8) FURNISH & INSTALL HYBRID CAMERA CABLE
- [9] FURNISH & INSTALL CCTV CAMERA
- [10] FURNISH & INSTALL NEW EQUIPMENT
- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- (16) FURNISH & INSTALL NEW RGS/PVC CONDUIT
- (A) EXISTING JUNCTION BOX
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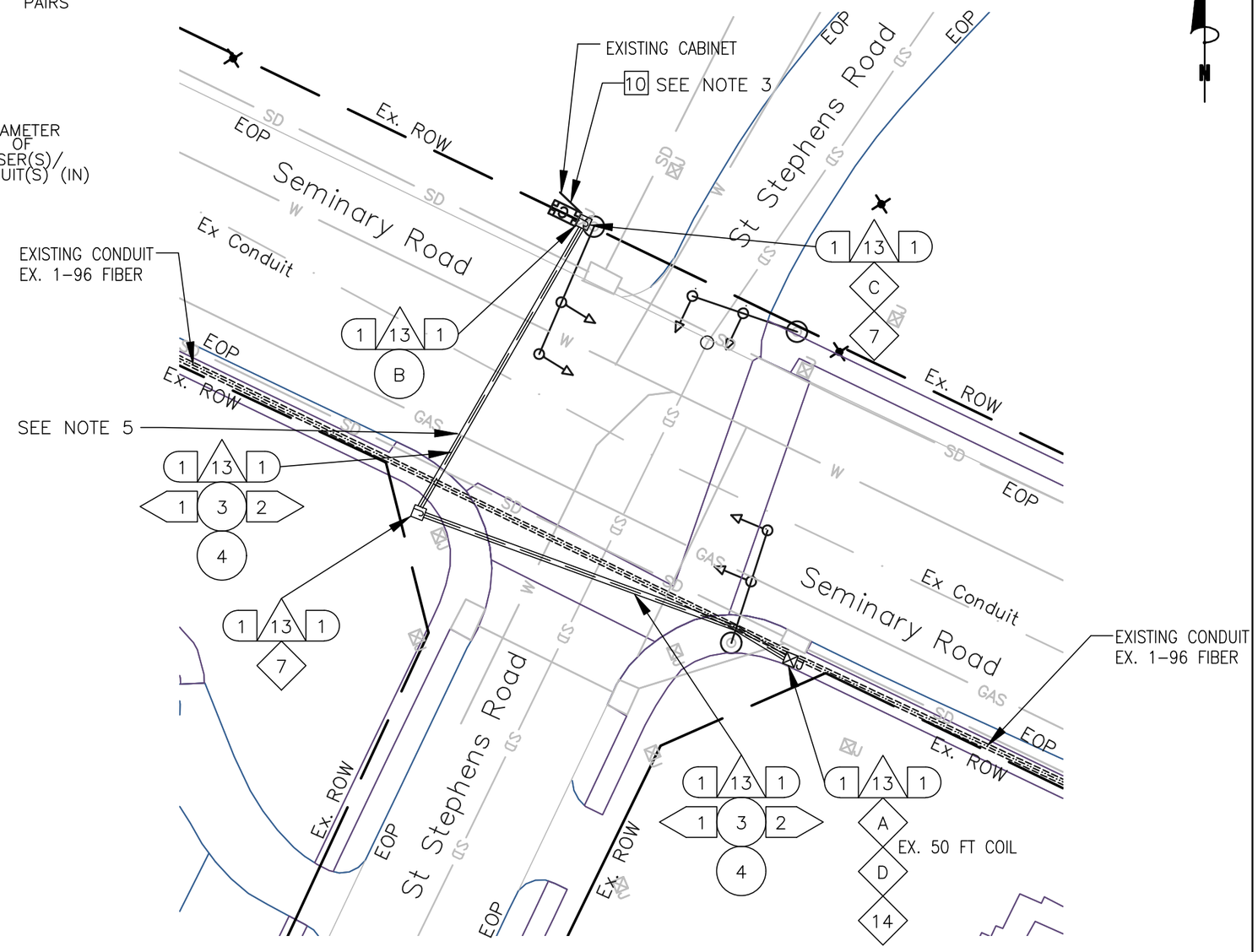
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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3. SEE CABINET DETAIL B (SHEET 6-59)
4. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

0 25'

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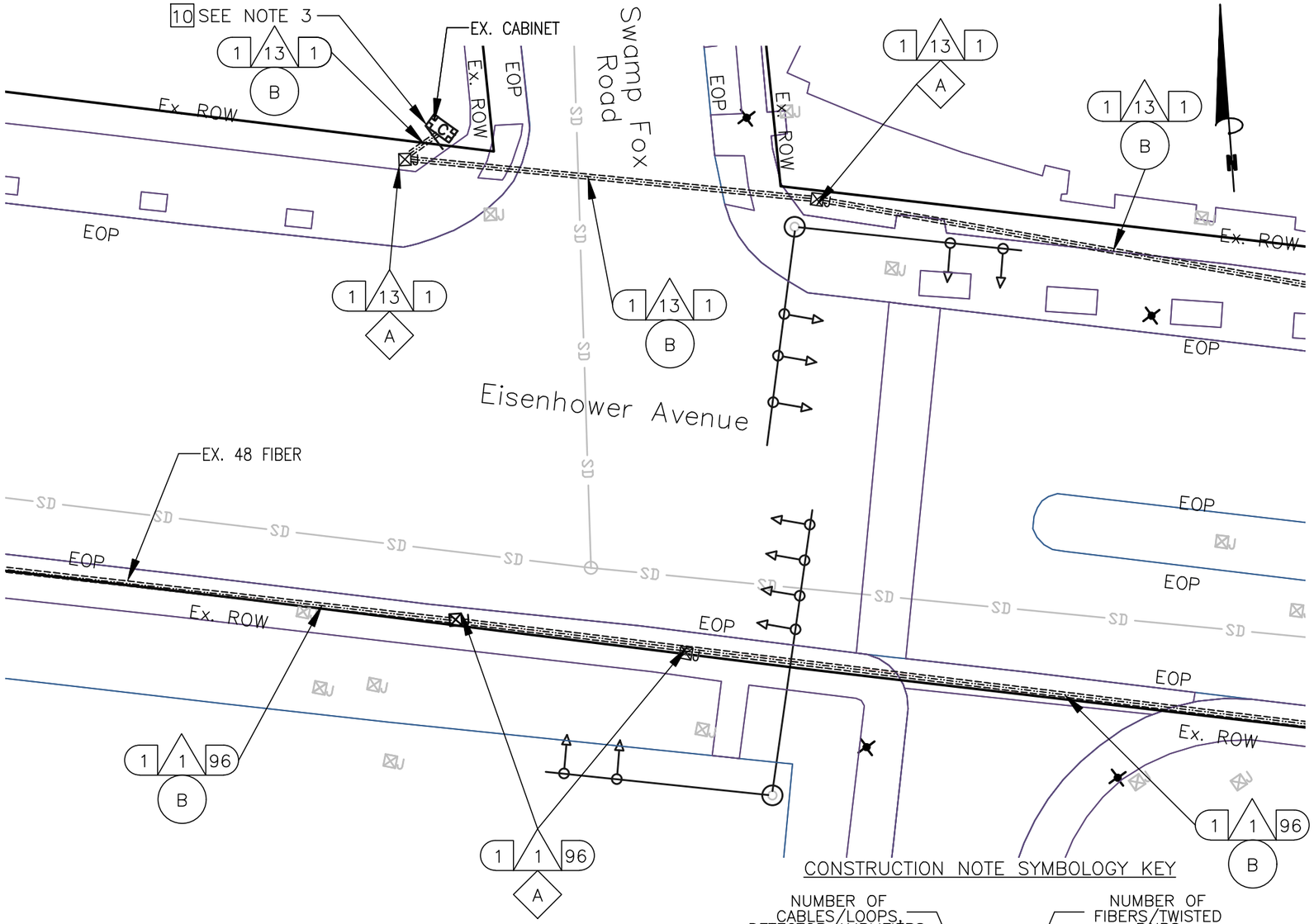
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SEMINARY ROAD AND ST STEPHENS ROAD SIGNAL COMMUNICATION

SHEET
6-39
SCALE 1" = 25'



KEY

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- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
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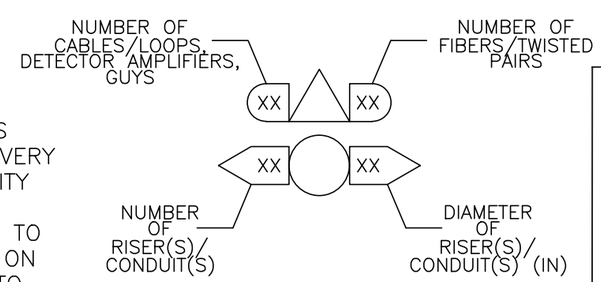
CONSTRUCTION NOTE SYMBOLOGY KEY



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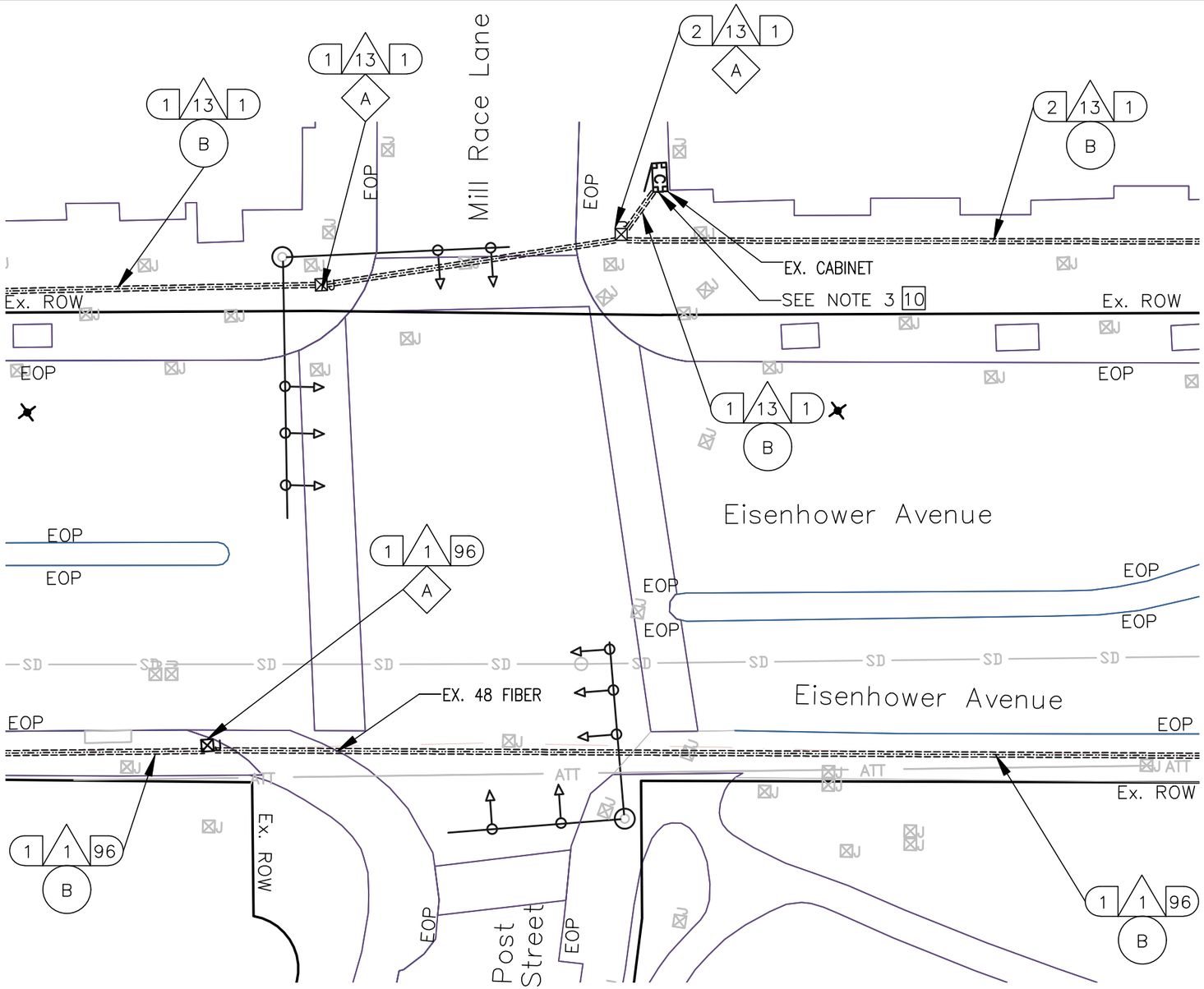
EISENHOWER AVENUE AND SWAMP FOX ROAD SIGNAL COMMUNICATION

SHEET
6–40
SCALE 1" = 25'



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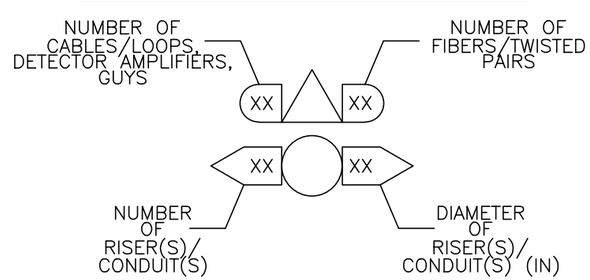
3. SEE CABINET DETAIL B (SHEET 6–59).

CONSTRUCTION NOTE SYMBOLOGY KEY



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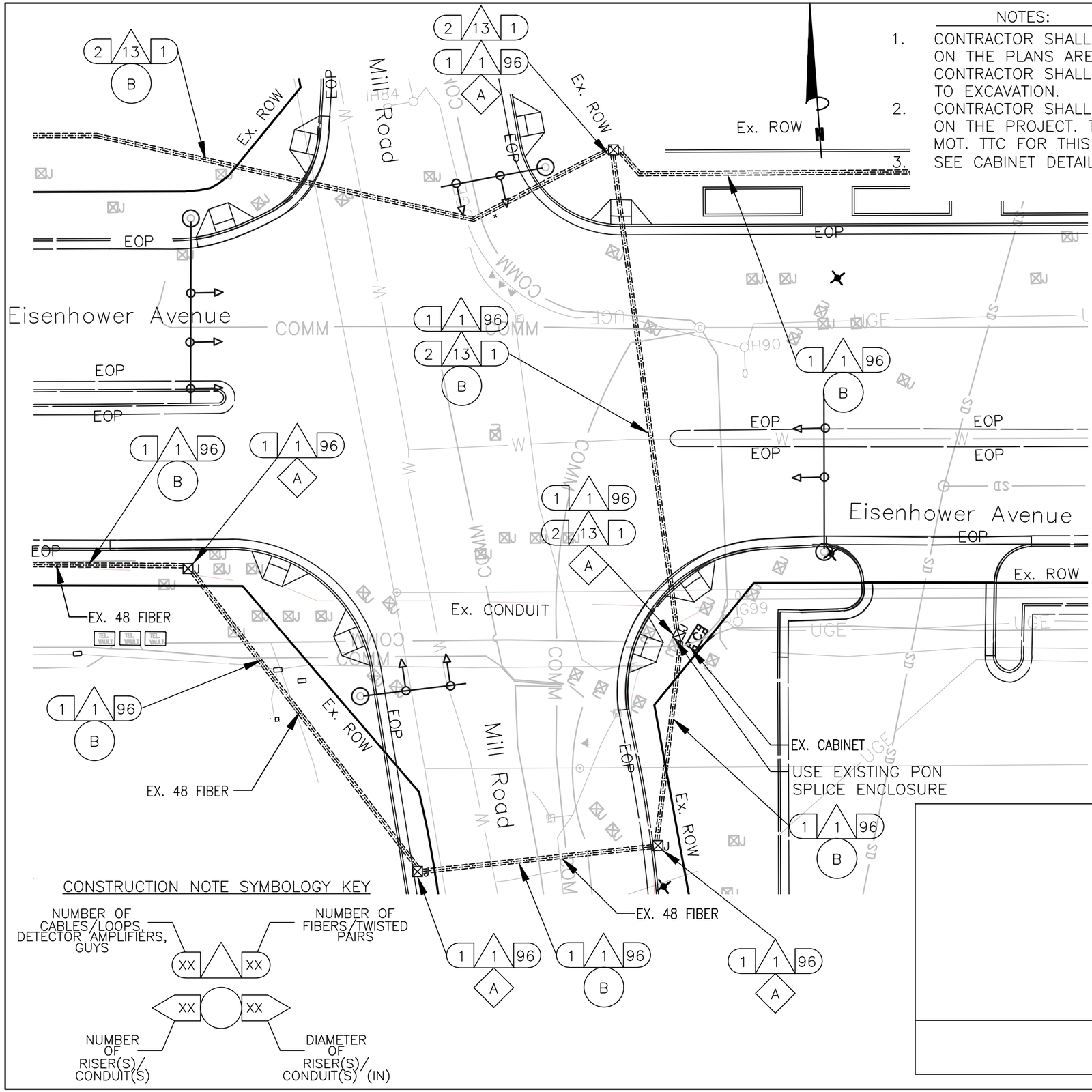
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVENUE AND MILL RACE LANE SIGNAL COMMUNICATION

SHEET
6–41
SCALE 1" = 25'



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

EISENHOWER AVENUE AND MILL ROAD SIGNAL COMMUNICATION

SHEET 6-42

SCALE 1" = 25'

NOTES:

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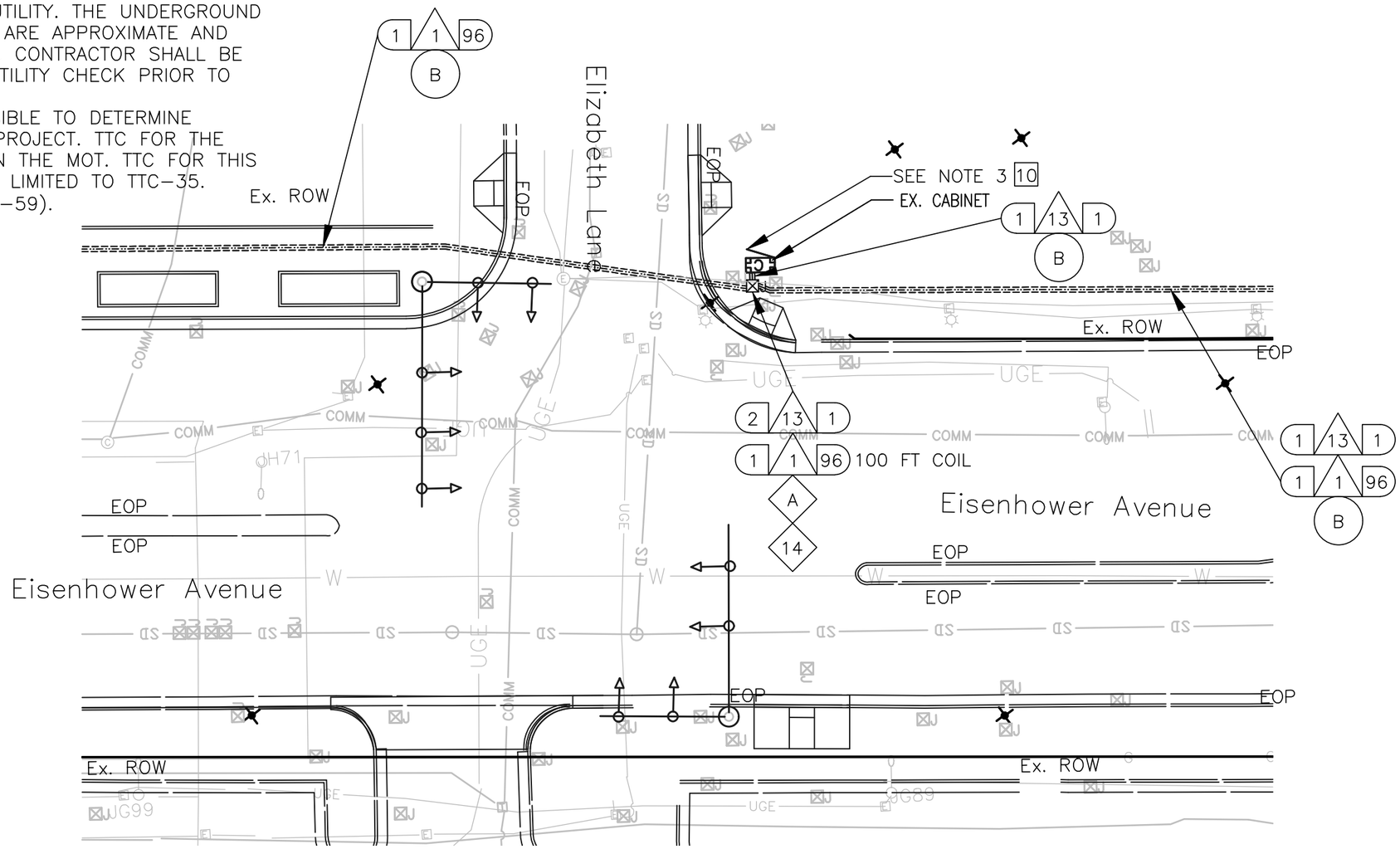

KEY

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- 6 FURNISH & INSTALL NEW JB-S3 JUNCTION BOX
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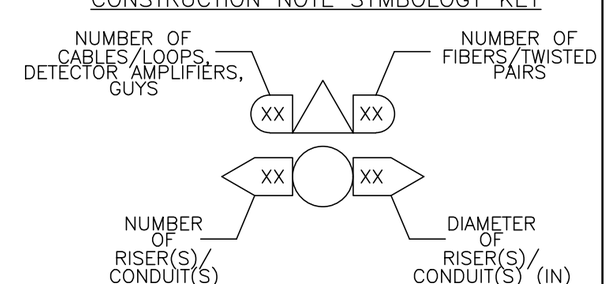
CONSTRUCTION NOTE SYMBOLOGY KEY



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EISENHOWER AVENUE AND ELIZABETH LANE SIGNAL COMMUNICATION

SHEET
6-43
SCALE 1" = 25'

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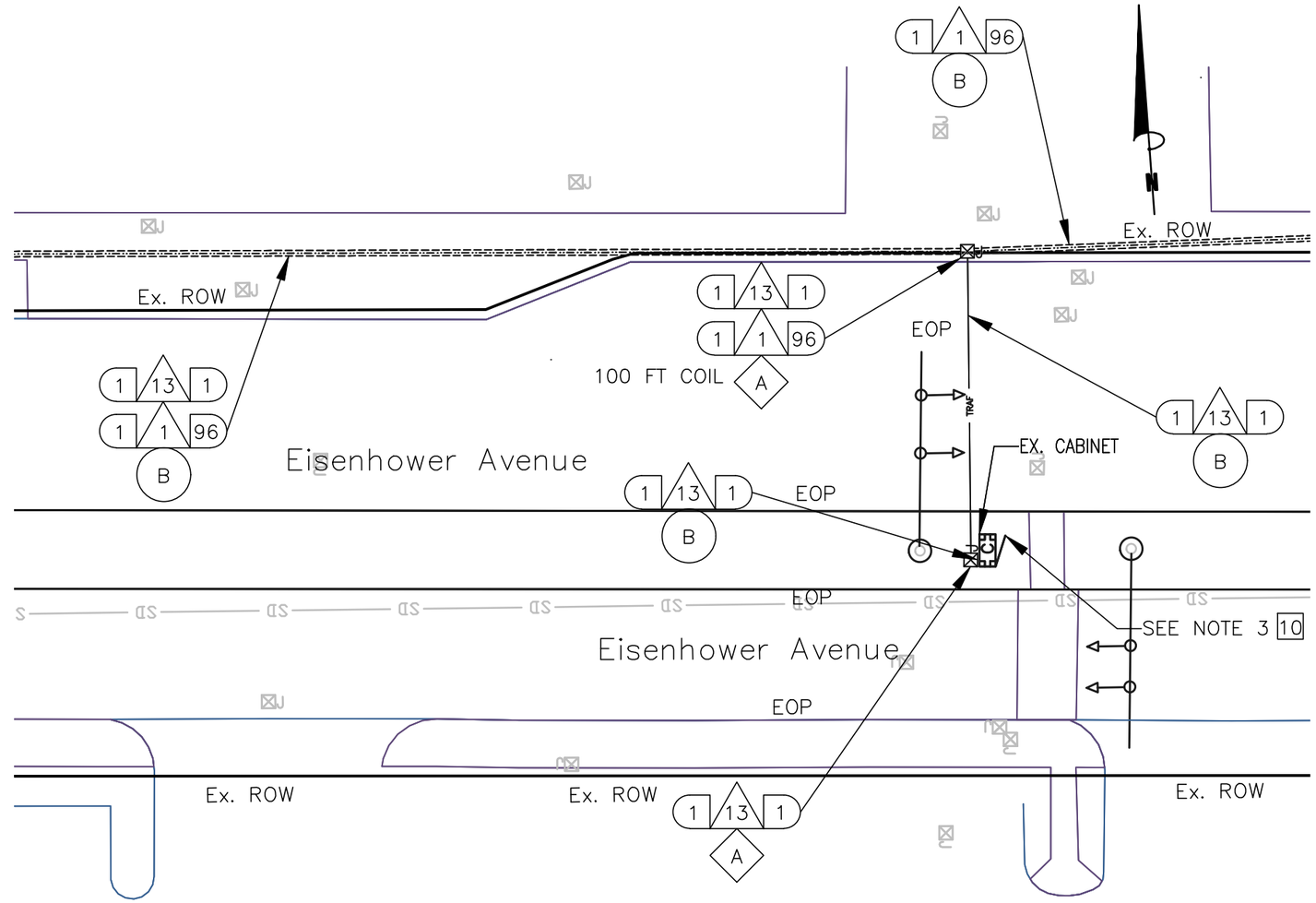

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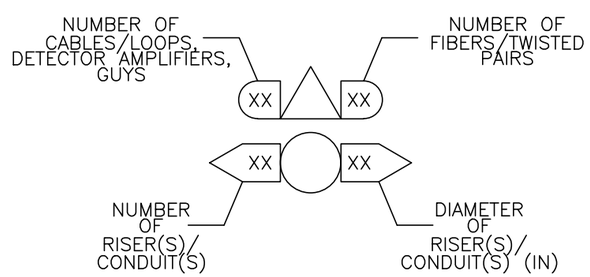

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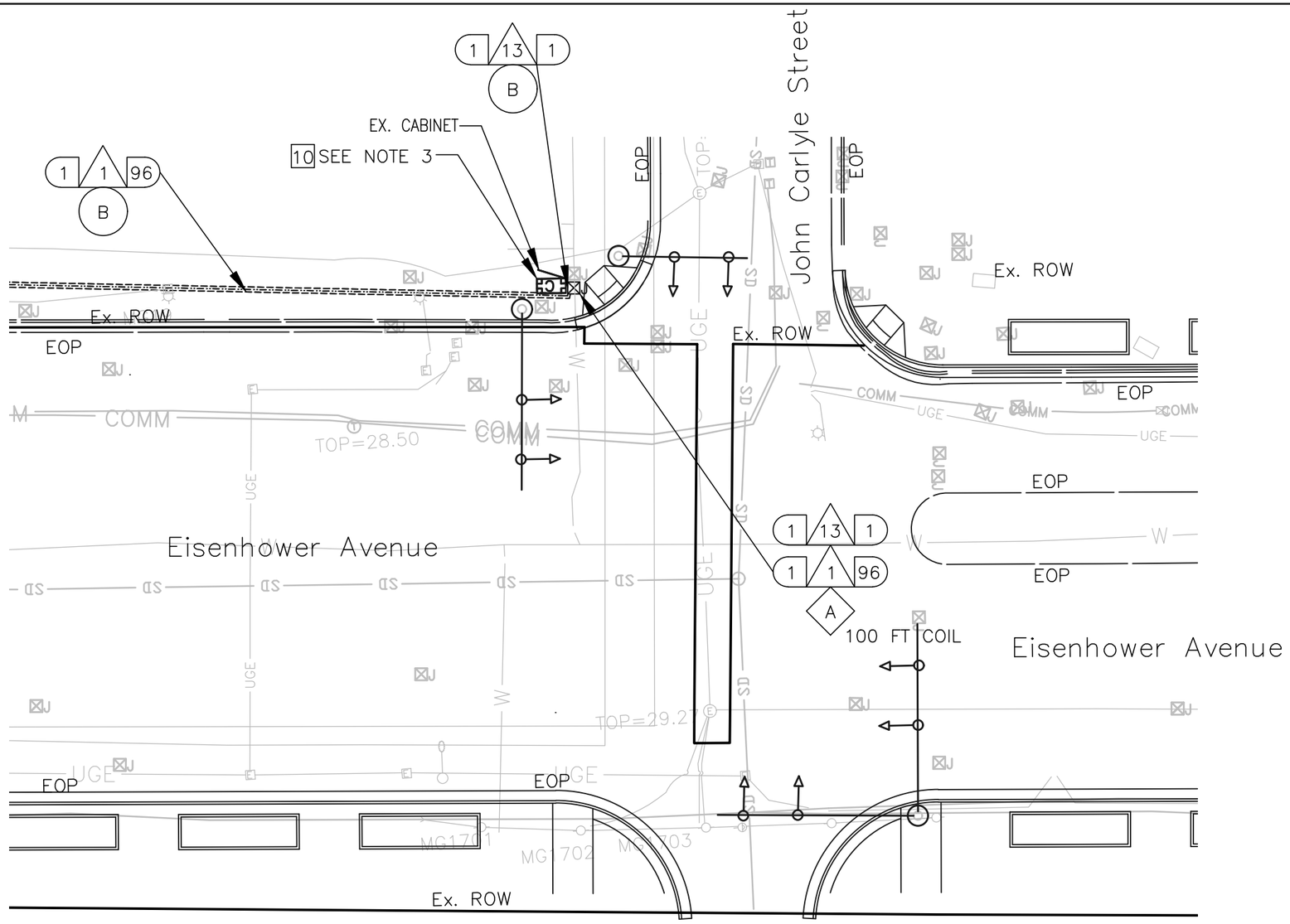
EISENHOWER AVENUE AND PEDESTRIAN CROSSING SIGNAL COMMUNICATION

SHEET
6-44
SCALE 1" = 25'



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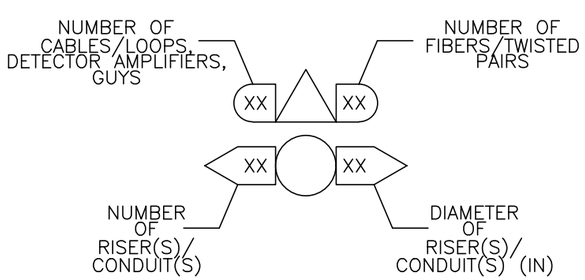
4. DIRECTIONAL DRILL
5. TRENCH/SAW CUT
6. FURNISH & INSTALL NEW JB–S3 JUNCTION BOX
7. FURNISH & INSTALL NEW JB–S2 JUNCTION BOX
8. FURNISH & INSTALL HYBRID CAMERA CABLE
9. FURNISH & INSTALL CCTV CAMERA
10. FURNISH & INSTALL NEW EQUIPMENT
11. FURNISH AND INSTALL NEW CABINET
12. CORE DRILL EXISTING CABINET FOUNDATION
13. FURNISH & INSTALL PON DROP CABLE
14. FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
15. FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
16. FURNISH & INSTALL NEW RGS/PVC CONDUIT

A. EXISTING JUNCTION BOX
B. EXISTING CONDUIT
C. REMOVE EXISTING JUNCTION BOX
D. MODIFY EXISTING JUNCTION BOX
E. FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

CONSTRUCTION NOTE SYMBOLOGY KEY



NOTES:

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3. SEE CABINET DETAIL B (SHEET 6–59).

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXX
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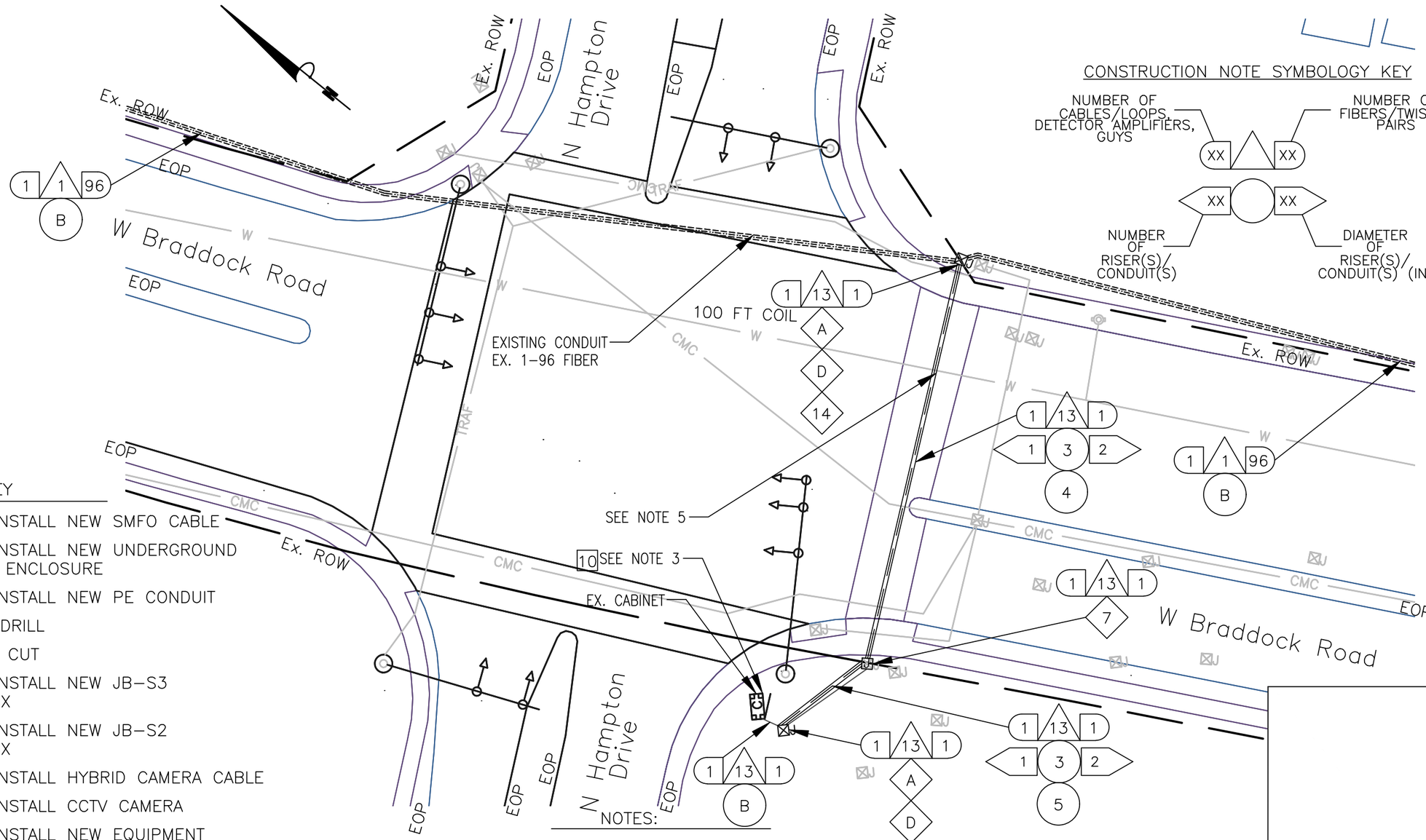
EISENHOWER AVENUE AND JOHN CARLYLE STREET SIGNAL COMMUNICATION

SHEET
6–45
SCALE 1" = 25'



KEY

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- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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3. SEE CABINET DETAIL B (SHEET 6-59)
4. ANY DOM (PWR), VAW (W), VZN, OR WGL (G) ON PLANS ARE FROM PREVIOUS PLANS, MARKINGS OR GOOGLE STREETVIEW. THE COMPANY RESPONSIBLE FOR MARKING THESE UTILITIES, UTILIQUEST, WAS NON-RESPONSIVE FOR THIS MISS UTILITY TICKET.MISS UTILITY (1-800-522-7001) TICKET A912703381.
5. SEE SHEET 2K FOR THE STANDARD DETAIL OF MINIMUM SEPARATION WHEN CROSSING THE EXISTING UTILITIES.

0 25'

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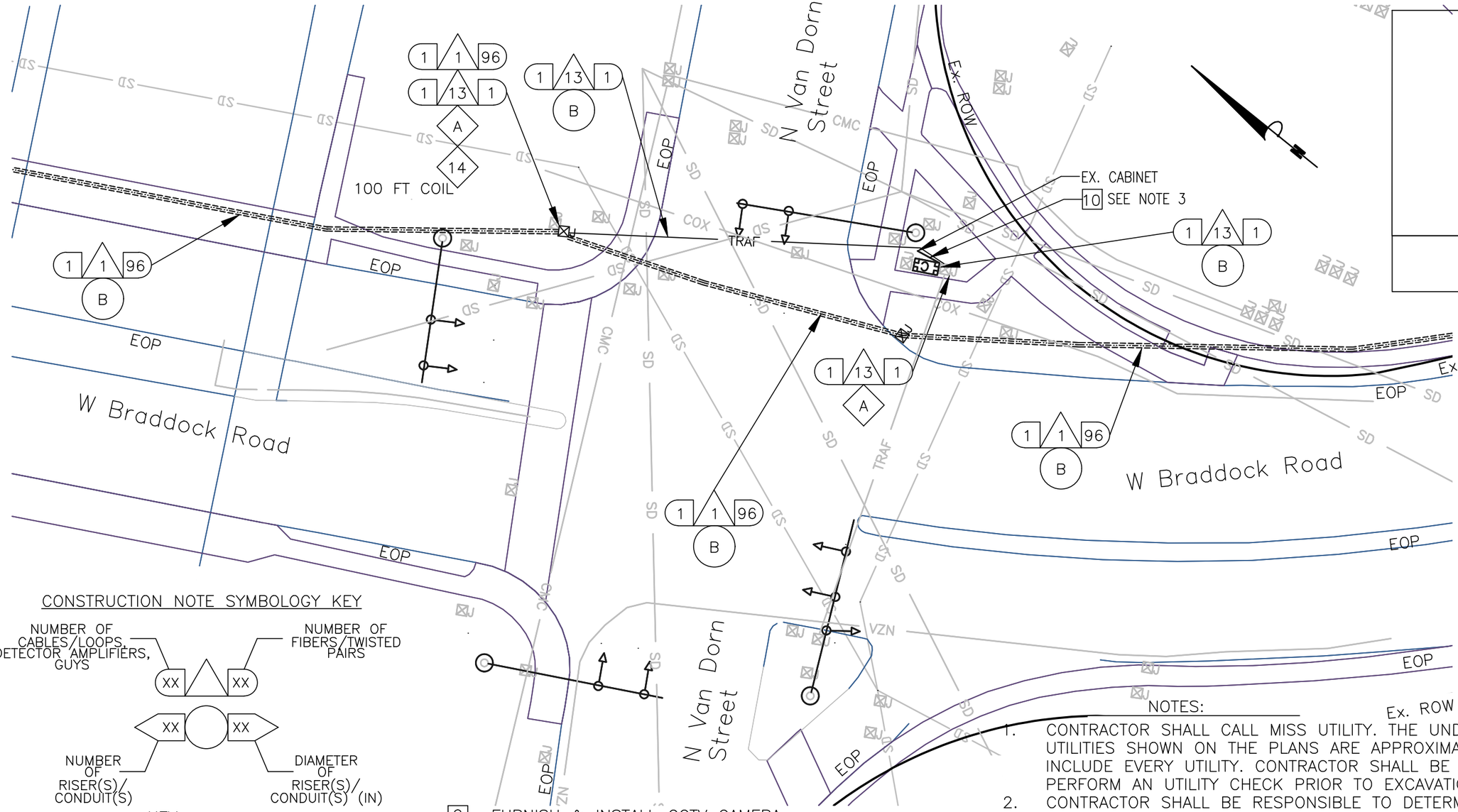
BRADDOCK ROAD AND HAMPTON DRIVE SIGNAL COMMUNICATION

SHEET 6-46

SCALE 1" = 25'



CONSTRUCTION NOTE SYMBOLOGY KEY

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- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
- (14) FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- (15) FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
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- (B) EXISTING CONDUIT
- (C) REMOVE EXISTING JUNCTION BOX
- (D) MODIFY EXISTING JUNCTION BOX
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL

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0 25'

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

BRADDOCK ROAD AND VAN DORN STREET SIGNAL COMMUNICATION

SHEET 6-47

SCALE 1" = 25'

KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
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- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
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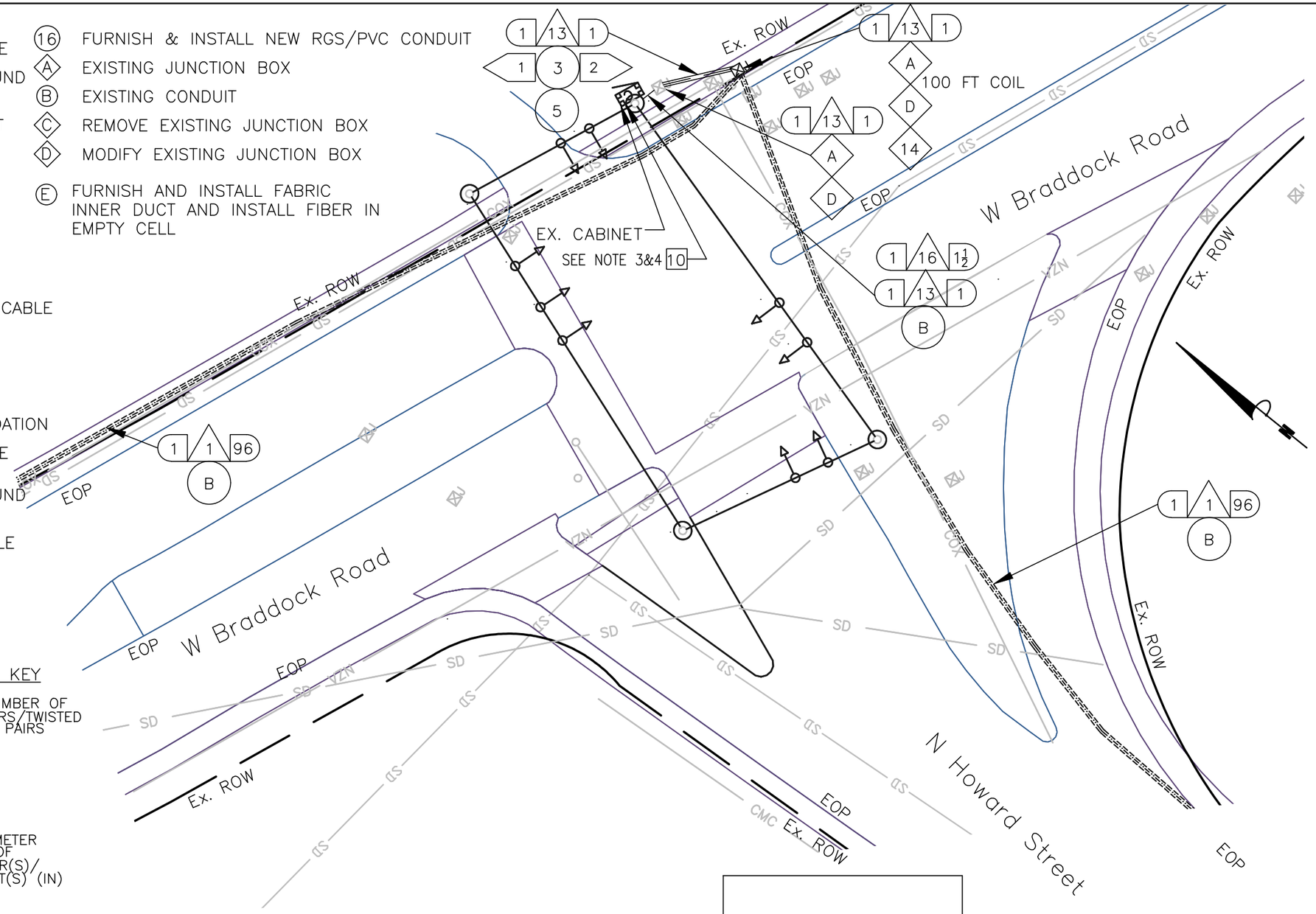
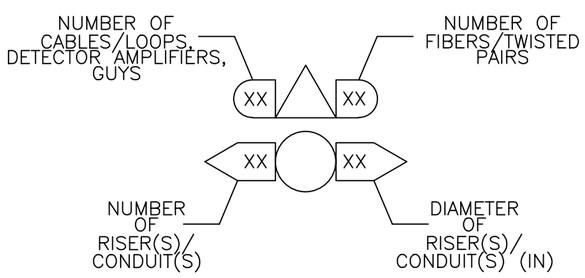
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



CONSTRUCTION NOTE SYMBOLOGY KEY



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3. SEE CABINET DETAIL B (SHEET 6–59)
4. CONTRACTOR WILL RUN RIGID GALVANIZED STEEL (RGS) CONDUIT FROM THE JUNCTION BOX TO THE CABINET WHEN THE JB–S2 IS PLACED CLOSE TO THE CABINET. WHEN THE JB–S2 IS MORE THAN 2 FEET FROM THE CABINET, THEN THE RGS SHOULD RUN THE VERTICAL SECTION VIA A SWEEP AND TRANSITION TO PVC USING THE APPROPRIATE PVC GLUE AND THREADED TO COUPLERS.

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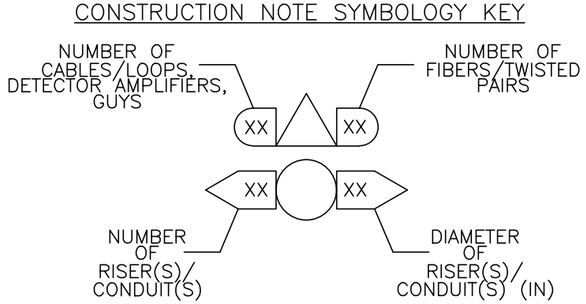
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

BRADDOCK RD
AND HOWARD STREET
SIGNAL COMMUNICATION

SHEET
6–48
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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- [11] FURNISH AND INSTALL NEW CABINET
- [12] CORE DRILL EXISTING CABINET FOUNDATION
- (13) FURNISH & INSTALL PON DROP CABLE
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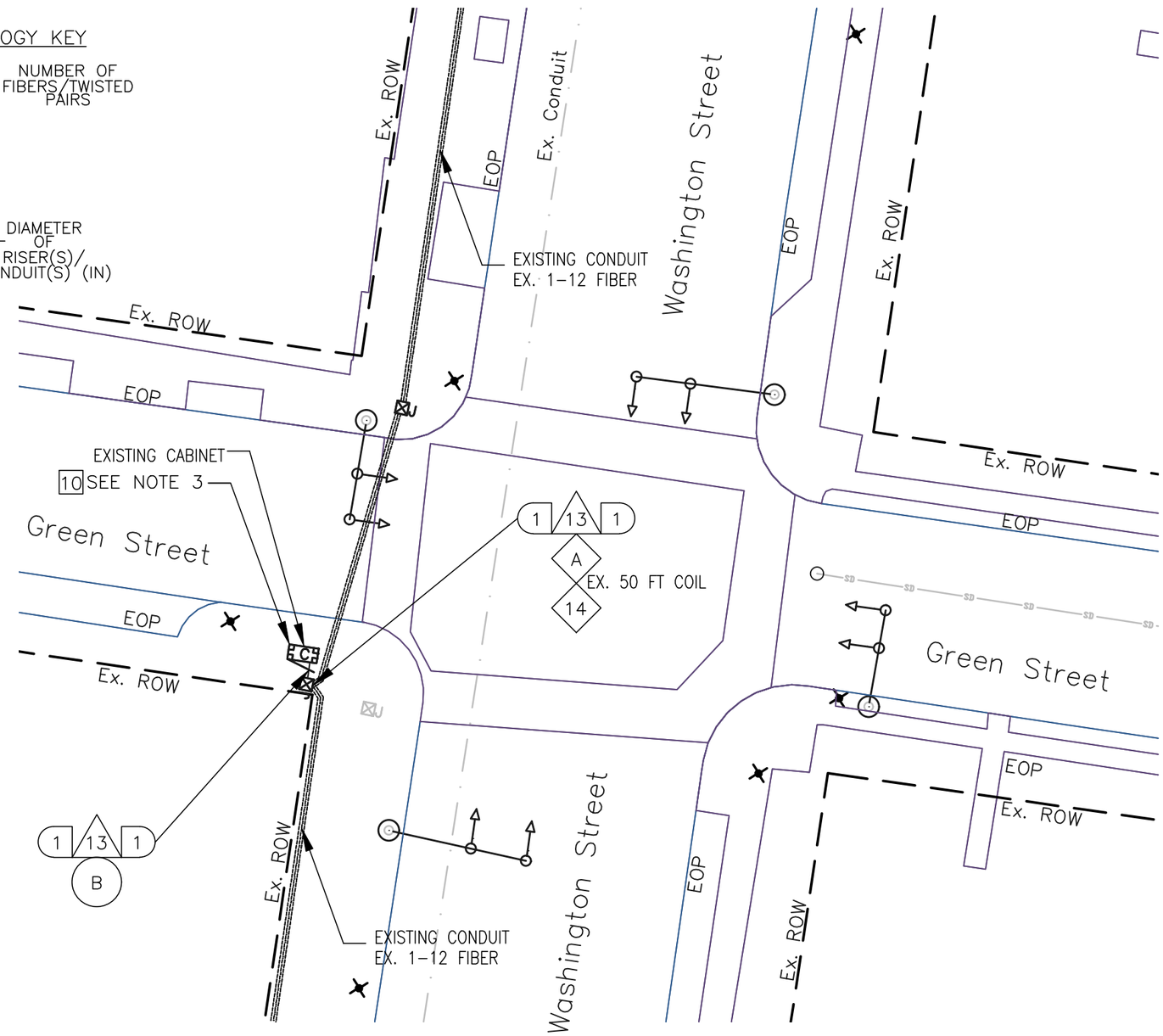
- (E) FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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3. SEE CABINET DETAIL B (SHEET 6-59)

0 25'

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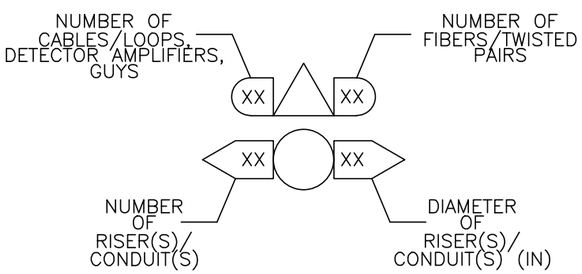
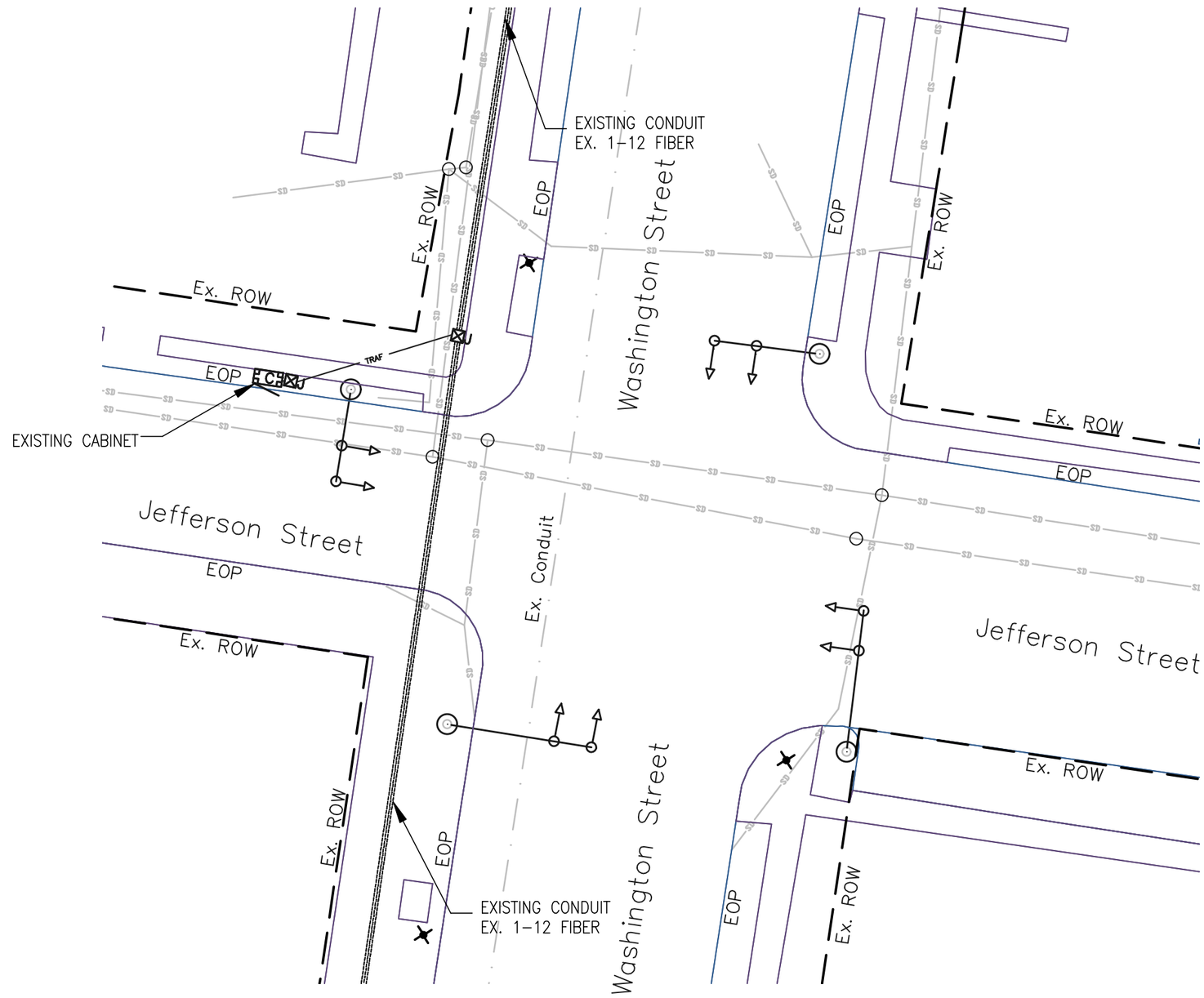
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

WASHINGTON STREET AND GREEN STREET SIGNAL COMMUNICATION

SHEET
6-49
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-21

0 25'

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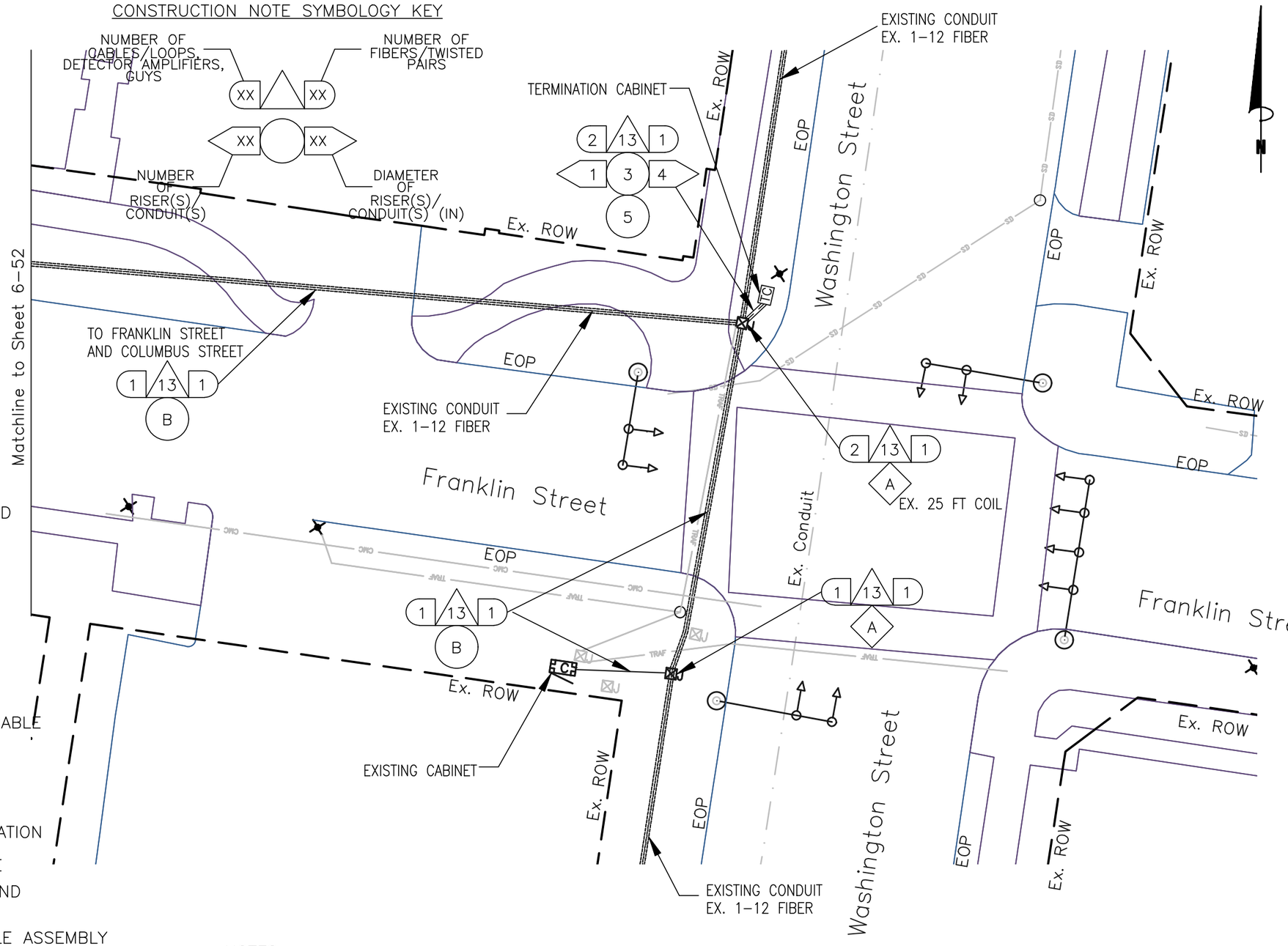
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

WASHINGTON STREET AND JEFFERSON STREET SIGNAL COMMUNICATION

SHEET
6-50
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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2. FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
3. FURNISH & INSTALL NEW PE CONDUIT
4. DIRECTIONAL DRILL
5. TRENCH/SAW CUT
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0 25'

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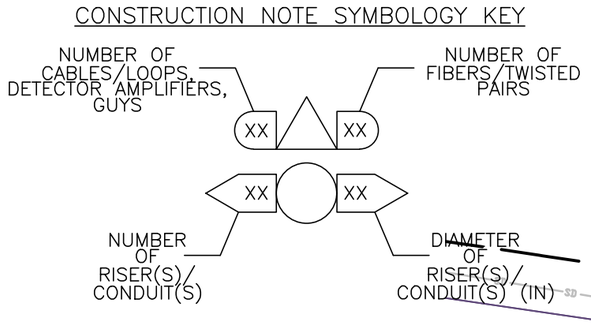
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

WASHINGTON STREET AND FRANKLIN STREET SIGNAL COMMUNICATION

SHEET 6-51

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



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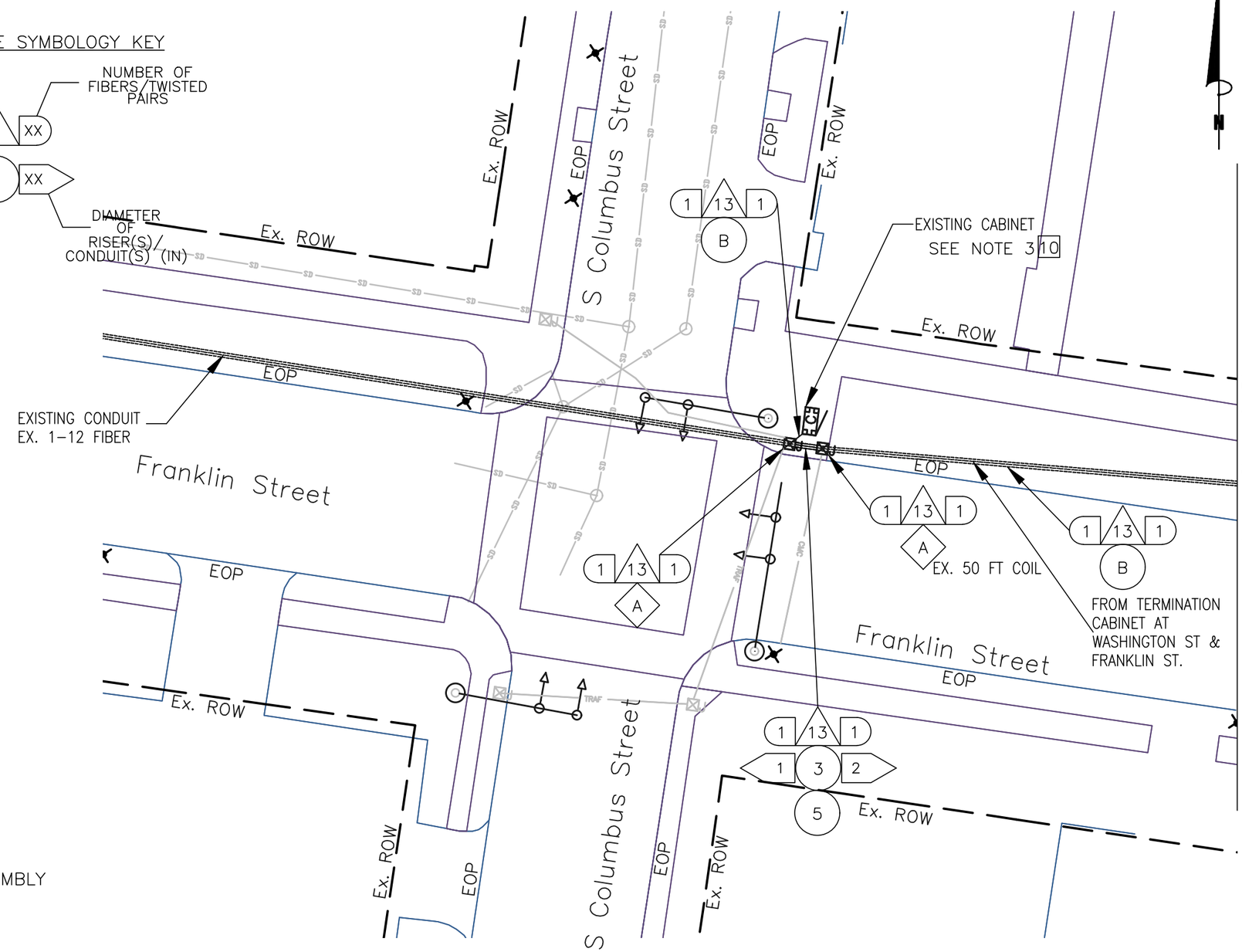

NOTES:

1. CONTRACTOR SHALL CALL MISS UTILITY. THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE EVERY UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A UTILITY CHECK PRIOR TO EXCAVATION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOT REQUIRED TO BID ON THE PROJECT. TTC FOR THE PLAN SHEET VARY DEPENDING ON THE MOT. TTC FOR THIS PLAN SHEET INCLUDES, BUT NOT LIMITED TO TTC-35.
3. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-20

0 25'

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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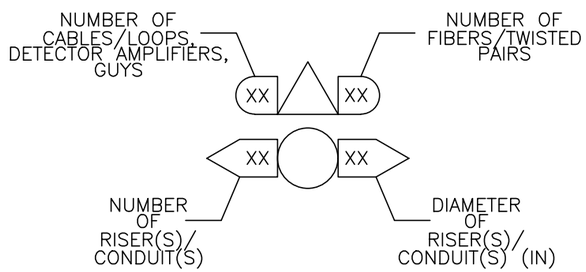
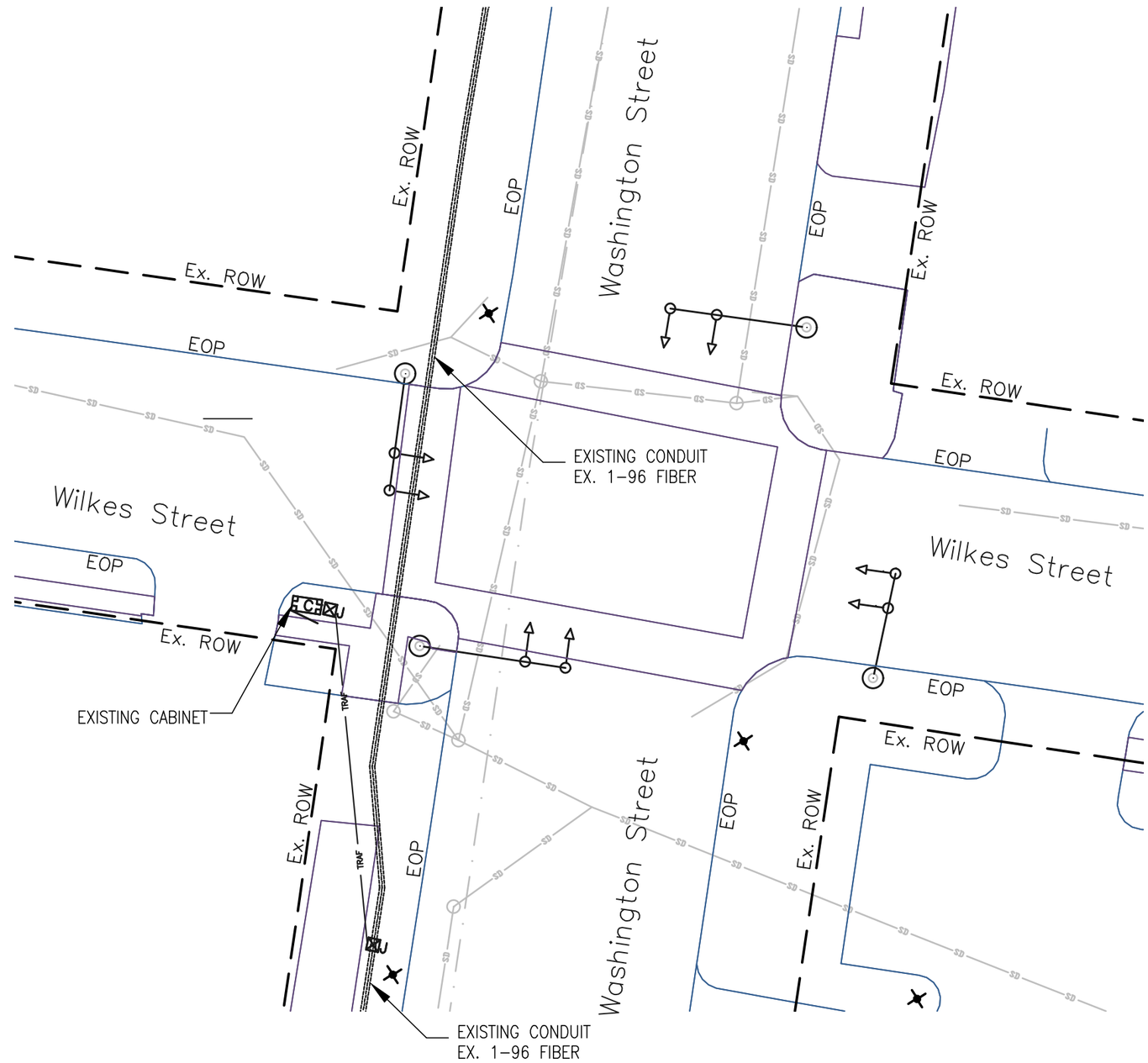
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

FRANKLIN STREET AND S COLUMBUS STREET SIGNAL COMMUNICATION

SHEET
6-52
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-23.

0 25'

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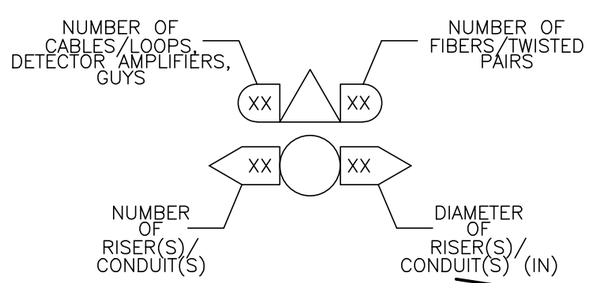
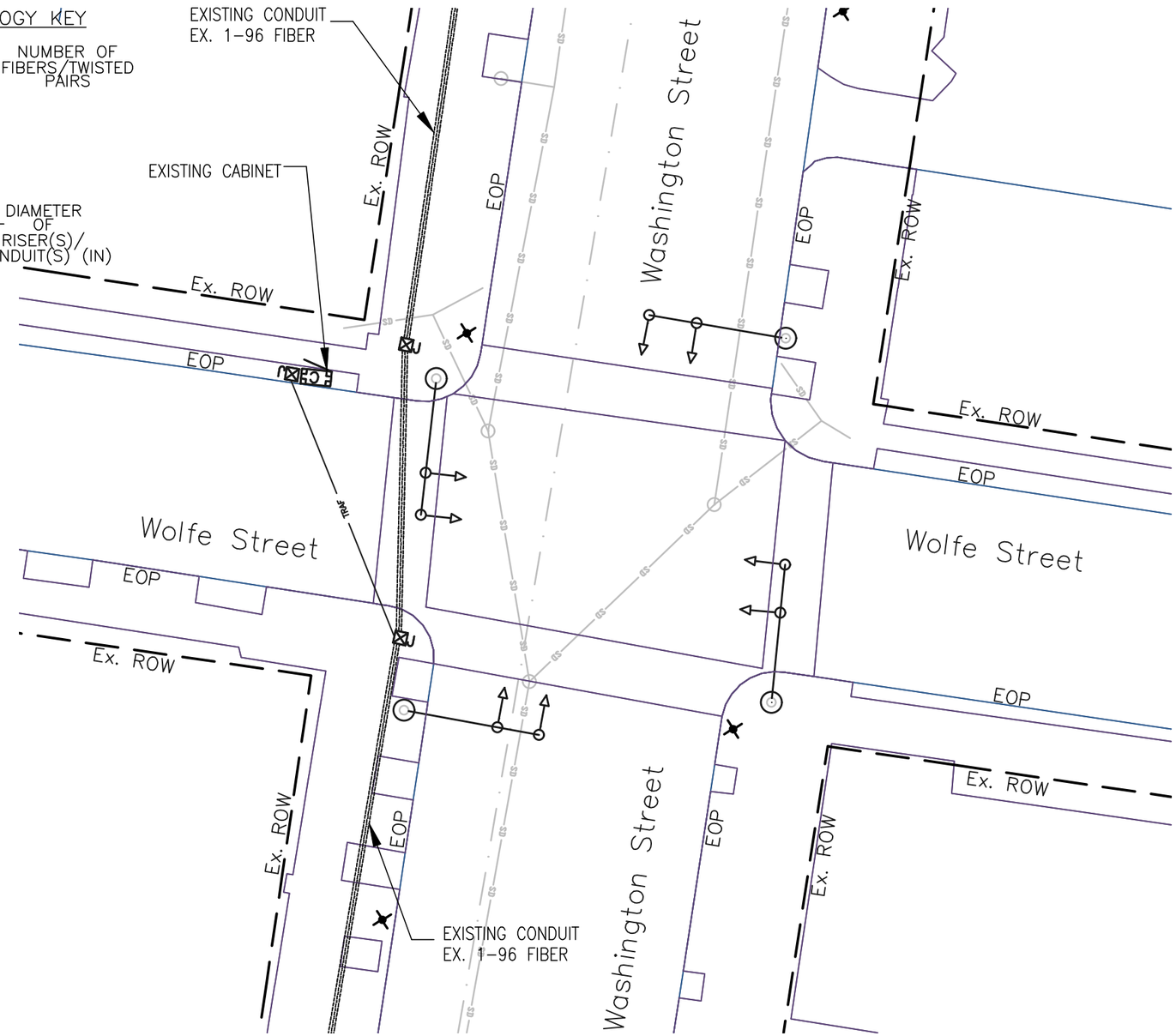
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

WASHINGTON STREET AND WILKES STREET SIGNAL COMMUNICATION

SHEET
6-53
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-24.

0 25'

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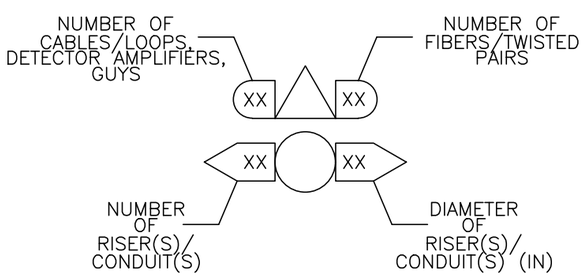
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

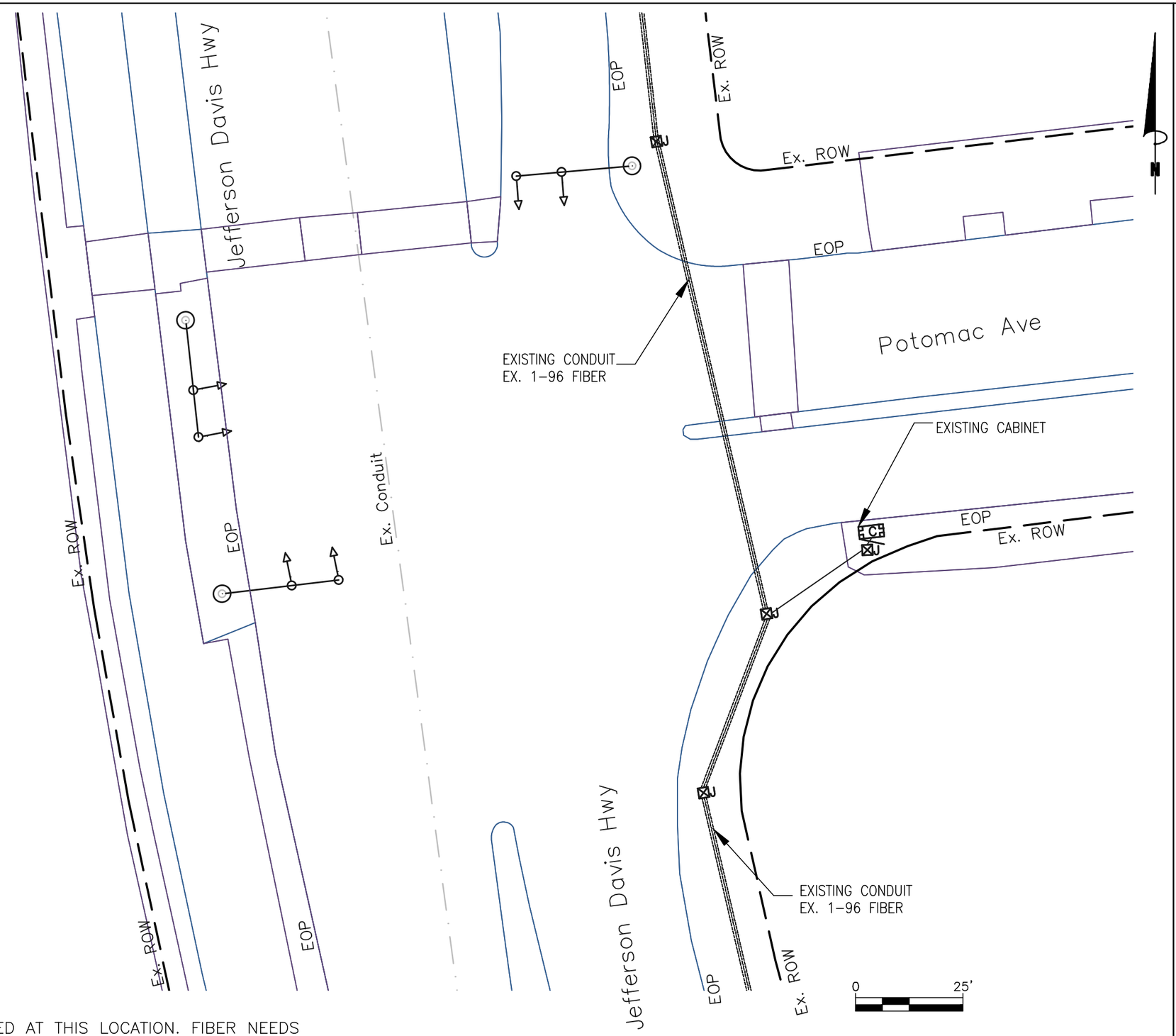
WASHINGTON STREET AND WOLFE STREET SIGNAL COMMUNICATION

SHEET 6-54

SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-37.

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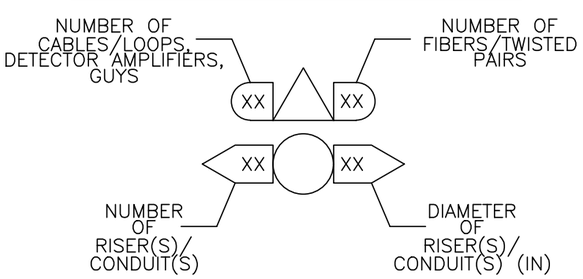
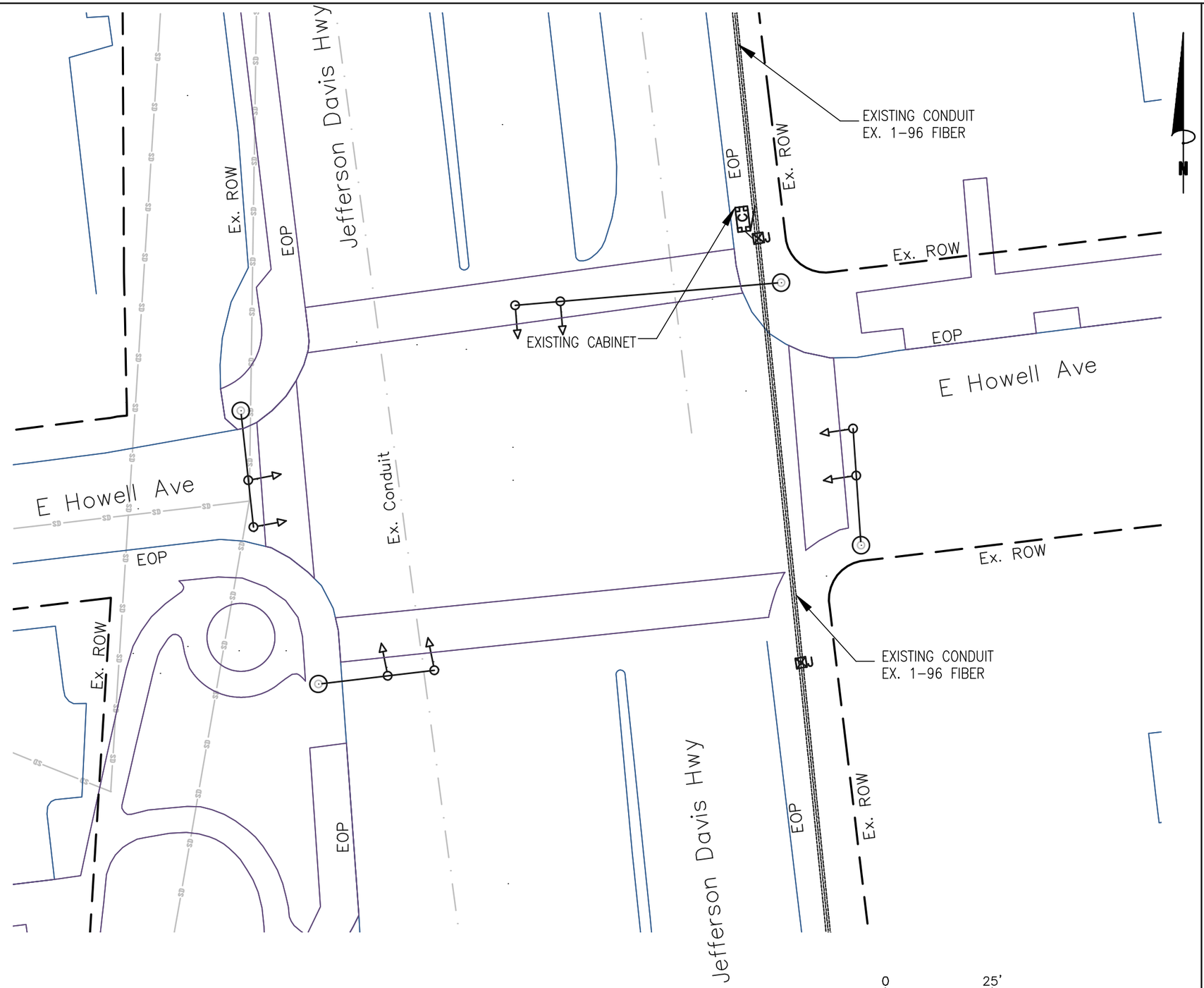
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

JEFFERSON DAVIS HIGHWAY AND
POTOMAC AVENUE
SIGNAL COMMUNICATION

SHEET
6-55
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-36.

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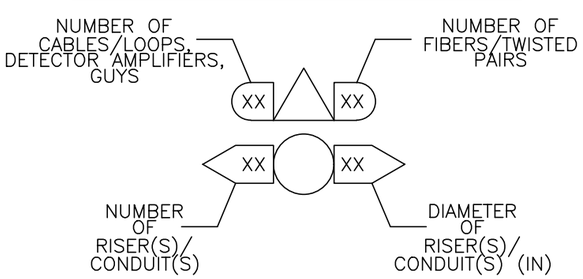
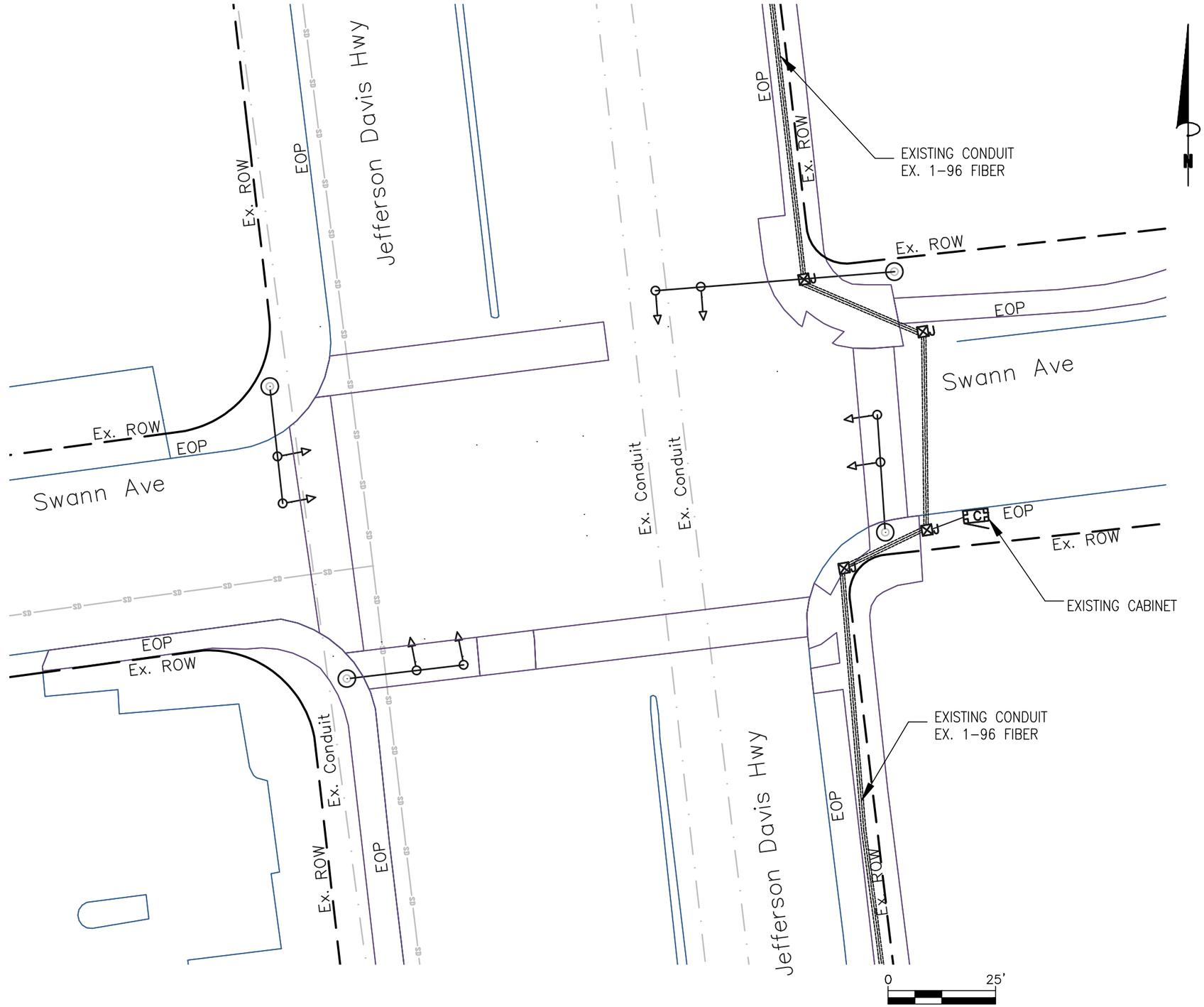
JEFFERSON DAVIS HIGHWAY AND
E HOWELL AVENUE
SIGNAL COMMUNICATION

SHEET
6-56
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY





NOTES:

1. PASSIVE OPTICAL NETWORK ALREADY INSTALLED AT THIS LOCATION. FIBER NEEDS TO BE REASSIGNED TO MATCH SHEET 8-35.

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301 KING STREET
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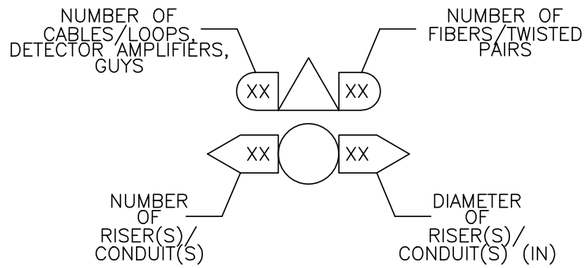
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

JEFFERSON DAVIS HIGHWAY AND SWANN AVENUE SIGNAL COMMUNICATION

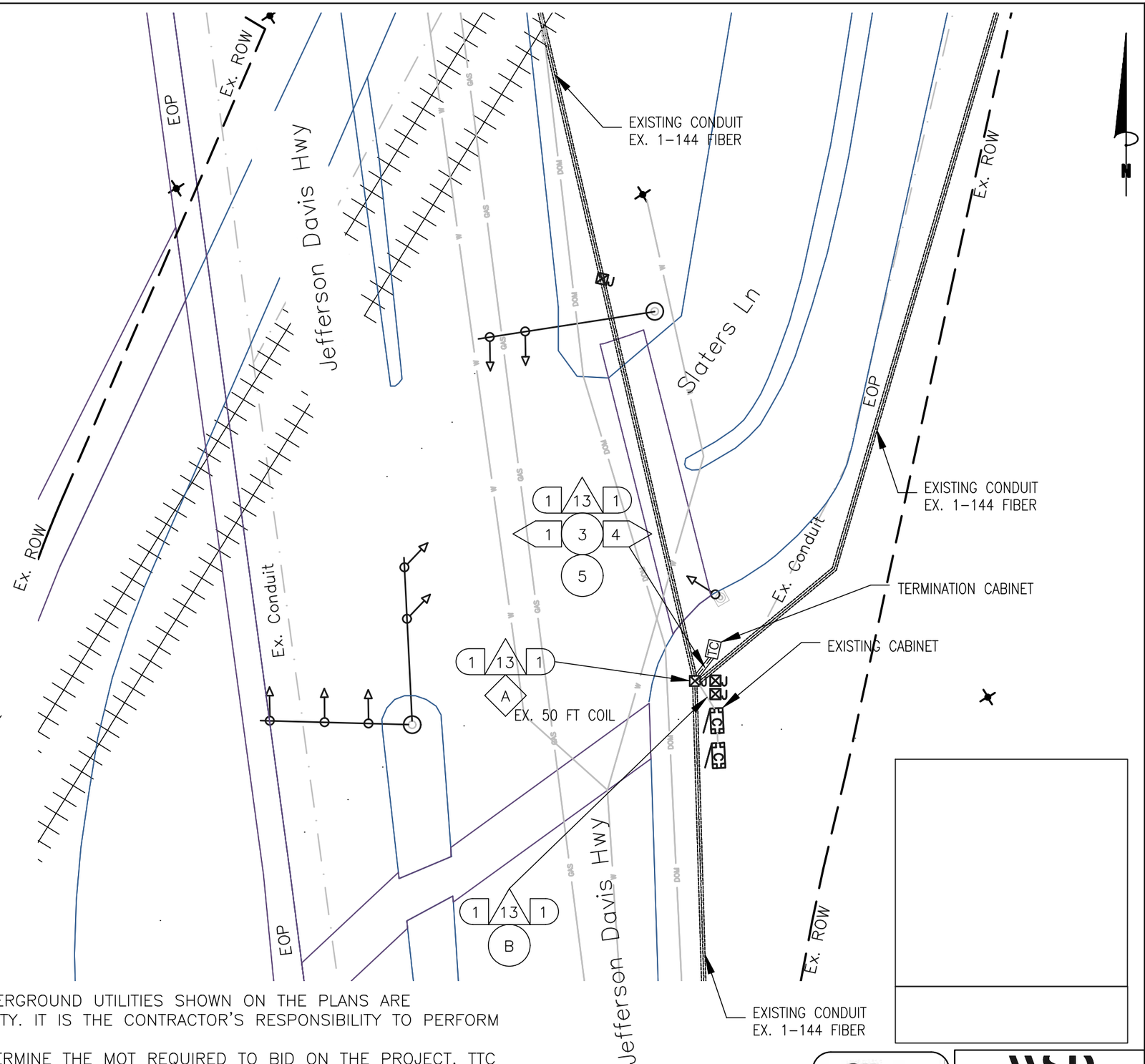
SHEET
6-57
SCALE 1" = 25'

CONSTRUCTION NOTE SYMBOLOGY KEY



KEY

- 1 FURNISH & INSTALL NEW SMFO CABLE
- 2 FURNISH & INSTALL NEW UNDERGROUND CCTV SPLICE ENCLOSURE
- 3 FURNISH & INSTALL NEW PE CONDUIT
- 4 DIRECTIONAL DRILL
- 5 TRENCH/SAW CUT
- 6 FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S3)
- 7 FURNISH & INSTALL NEW FIBER JUNCTION BOX (JB-S2)
- 8 FURNISH & INSTALL HYBRID CAMERA CABLE
- 9 FURNISH & INSTALL CCTV CAMERA
- 10 FURNISH & INSTALL NEW EQUIPMENT
- 11 FURNISH AND INSTALL NEW CABINET
- 12 CORE DRILL EXISTING CABINET FOUNDATION
- 13 FURNISH & INSTALL PON DROP CABLE
- 14 FURNISH & INSTALL NEW UNDERGROUND PON SPLICE ENCLOSURE
- 15 FURNISH & INSTALL CCTV DROP CABLE ASSEMBLY
- 16 FURNISH & INSTALL NEW RGS/PVC CONDUIT
- A EXISTING JUNCTION BOX
- B EXISTING CONDUIT
- C REMOVE EXISTING JUNCTION BOX
- D MODIFY EXISTING JUNCTION BOX
- E FURNISH AND INSTALL FABRIC INNER DUCT AND INSTALL FIBER IN EMPTY CELL



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3. SEE CABINET DETAIL B (SHEET 6-59).

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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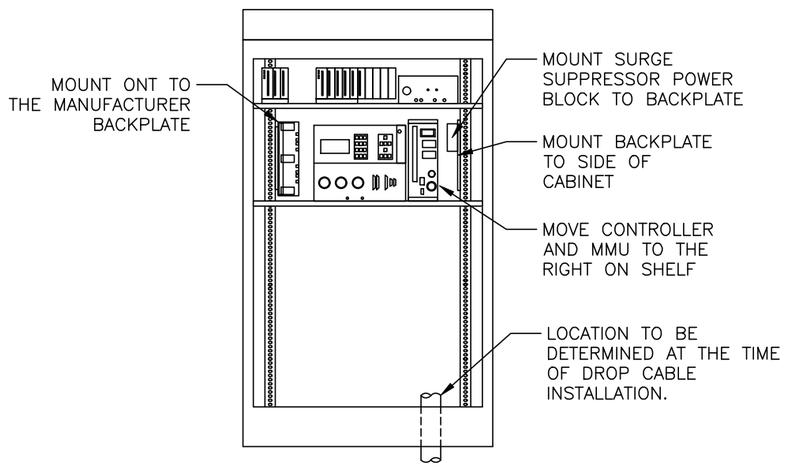
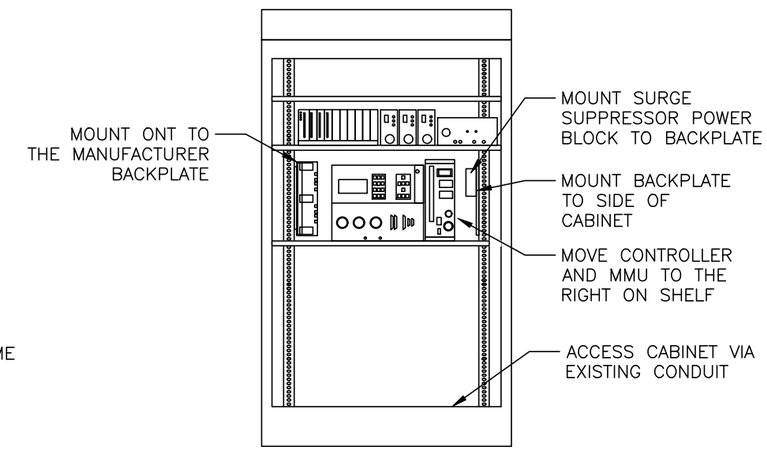
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

JEFFERSON DAVIS HIGHWAY AND SLATERS LANE SIGNAL COMMUNICATION

SHEET
6-58
SCALE 1" = 25'



CABINET DETAIL A (POLE MOUNT)



CABINET DETAIL B (GROUND MOUNT)

NOTES:

1. MOUNT ONT TO MANUFACTURER MOUNTING BRACKET. SECURE MOUNTING BRACKET TO SIDE RAILS OR BACKPLATE OF CONTROLLER CABINET.

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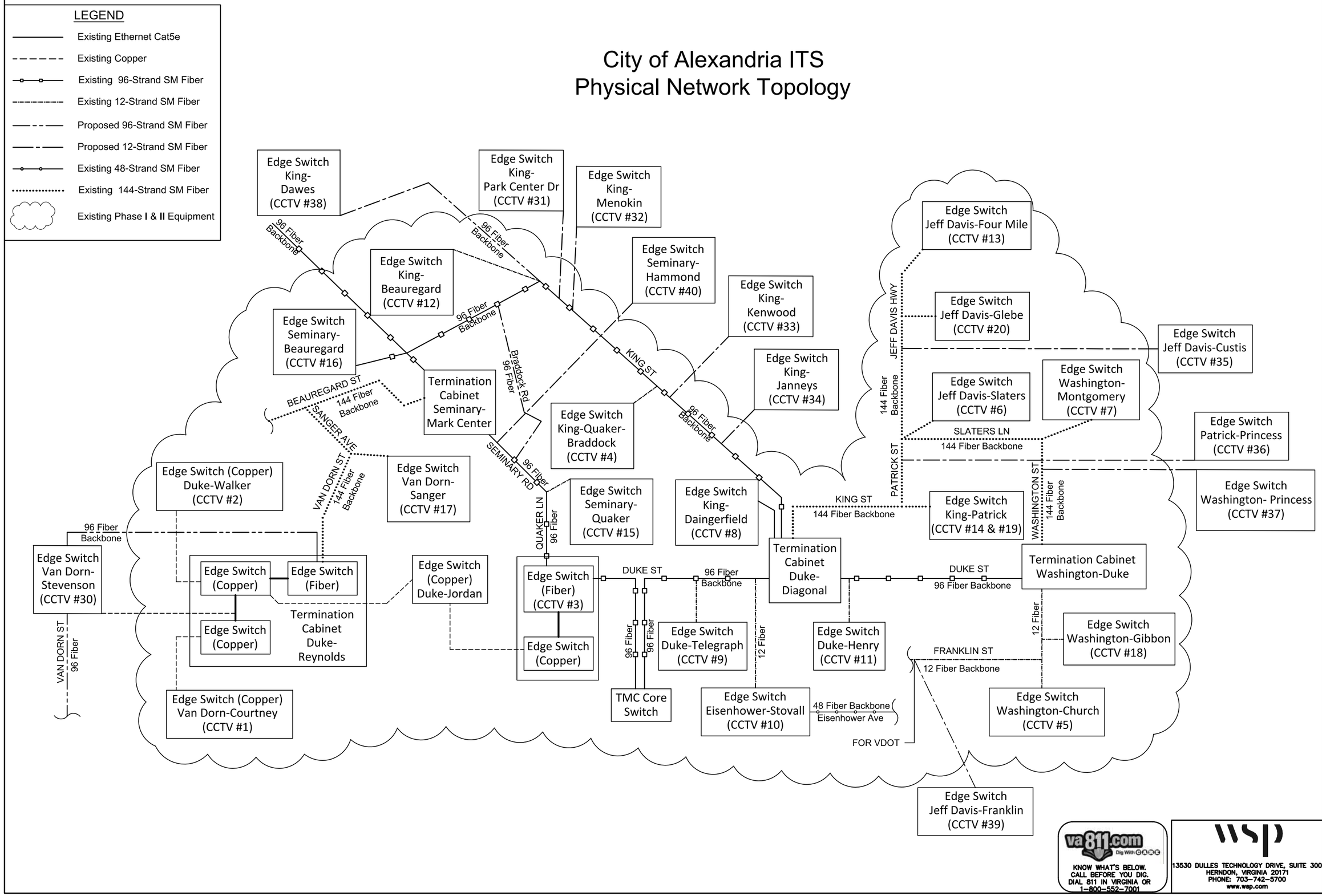
CABINET DETAIL (TYPICAL)

SHEET
6-59
SCALE N.T.S.

City of Alexandria ITS
Physical Network Topology



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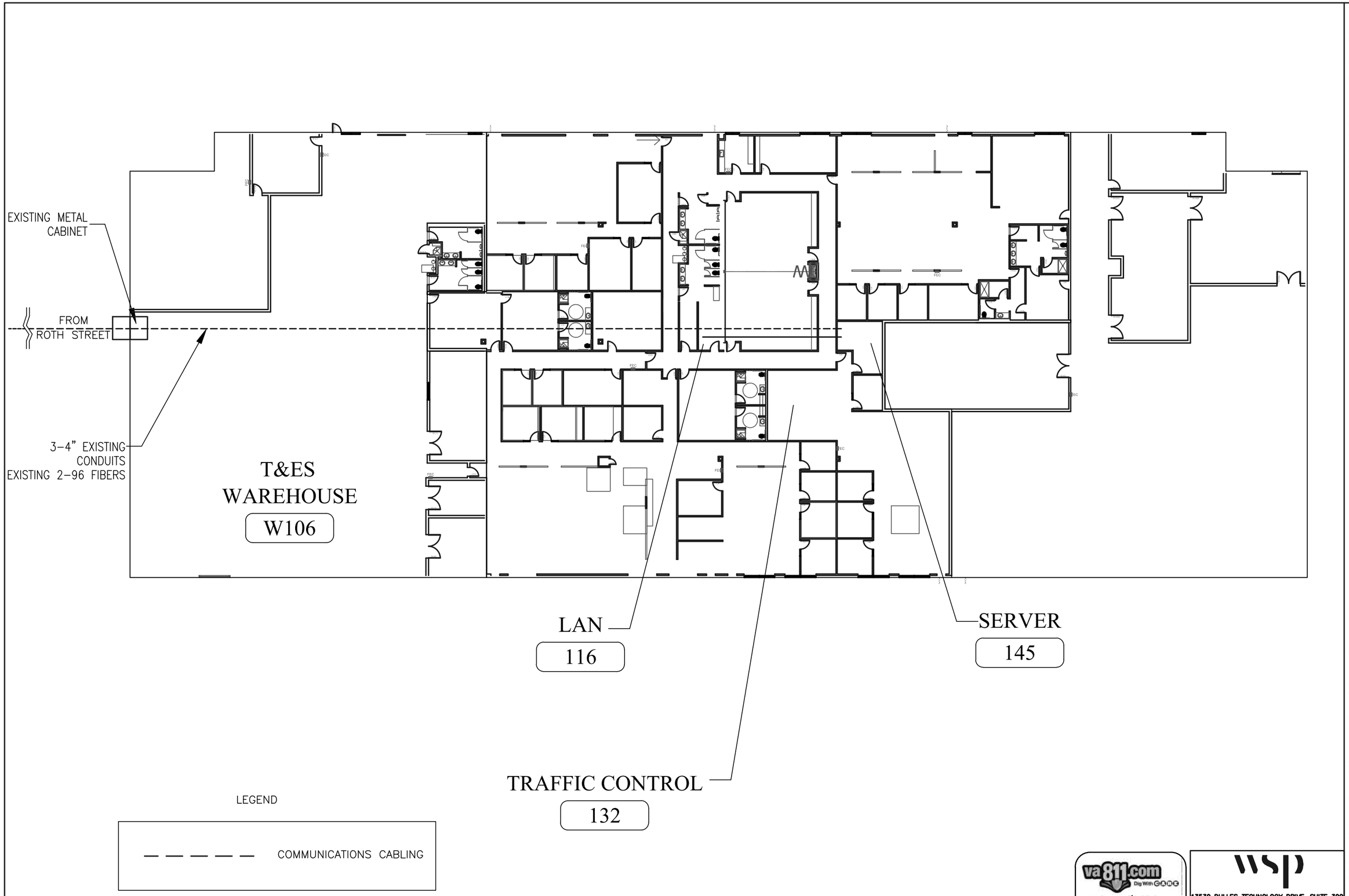
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

PHYSICAL NETWORK TOPOLOGY

SHEET
7-1
N.T.S



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

TMC
BUILDING OVERVIEW PLAN

SHEET
7-2
SCALE 1" = 30'

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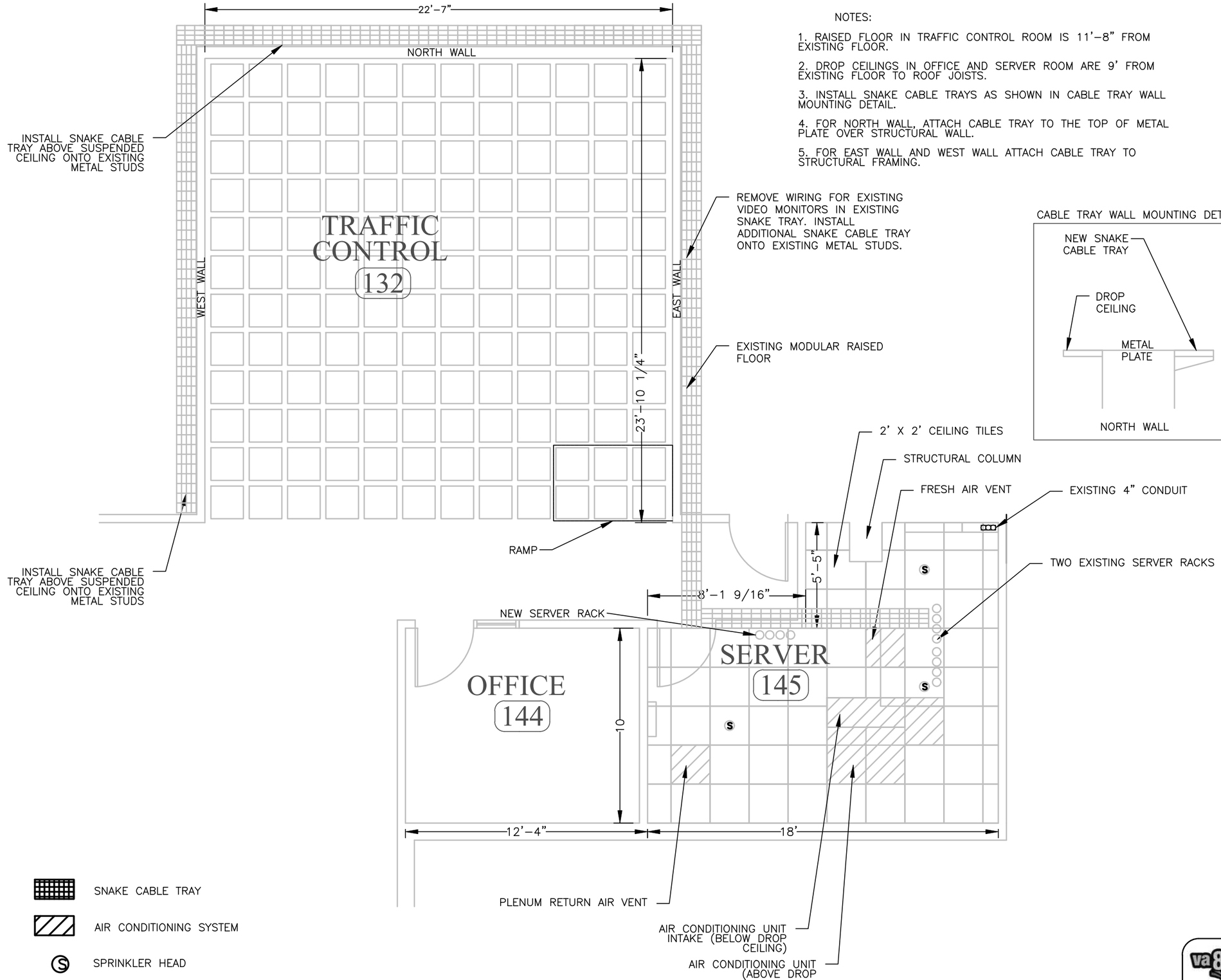
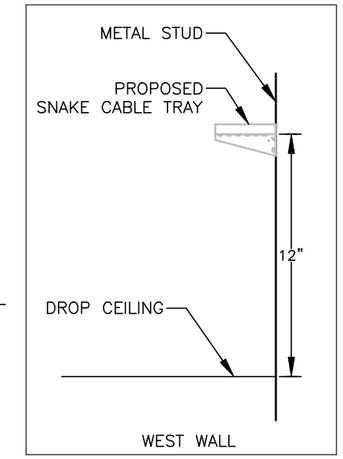
NOTES:

1. RAISED FLOOR IN TRAFFIC CONTROL ROOM IS 11'–8" FROM EXISTING FLOOR.
2. DROP CEILINGS IN OFFICE AND SERVER ROOM ARE 9' FROM EXISTING FLOOR TO ROOF JOISTS.
3. INSTALL SNAKE CABLE TRAYS AS SHOWN IN CABLE TRAY WALL MOUNTING DETAIL.
4. FOR NORTH WALL, ATTACH CABLE TRAY TO THE TOP OF METAL PLATE OVER STRUCTURAL WALL.
5. FOR EAST WALL AND WEST WALL ATTACH CABLE TRAY TO STRUCTURAL FRAMING.

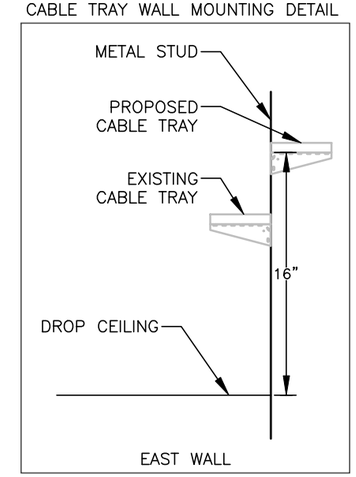


CABLE TRAY WALL MOUNTING DETAIL

CABLE TRAY WALL MOUNTING DETAIL



CABLE TRAY WALL MOUNTING DETAIL



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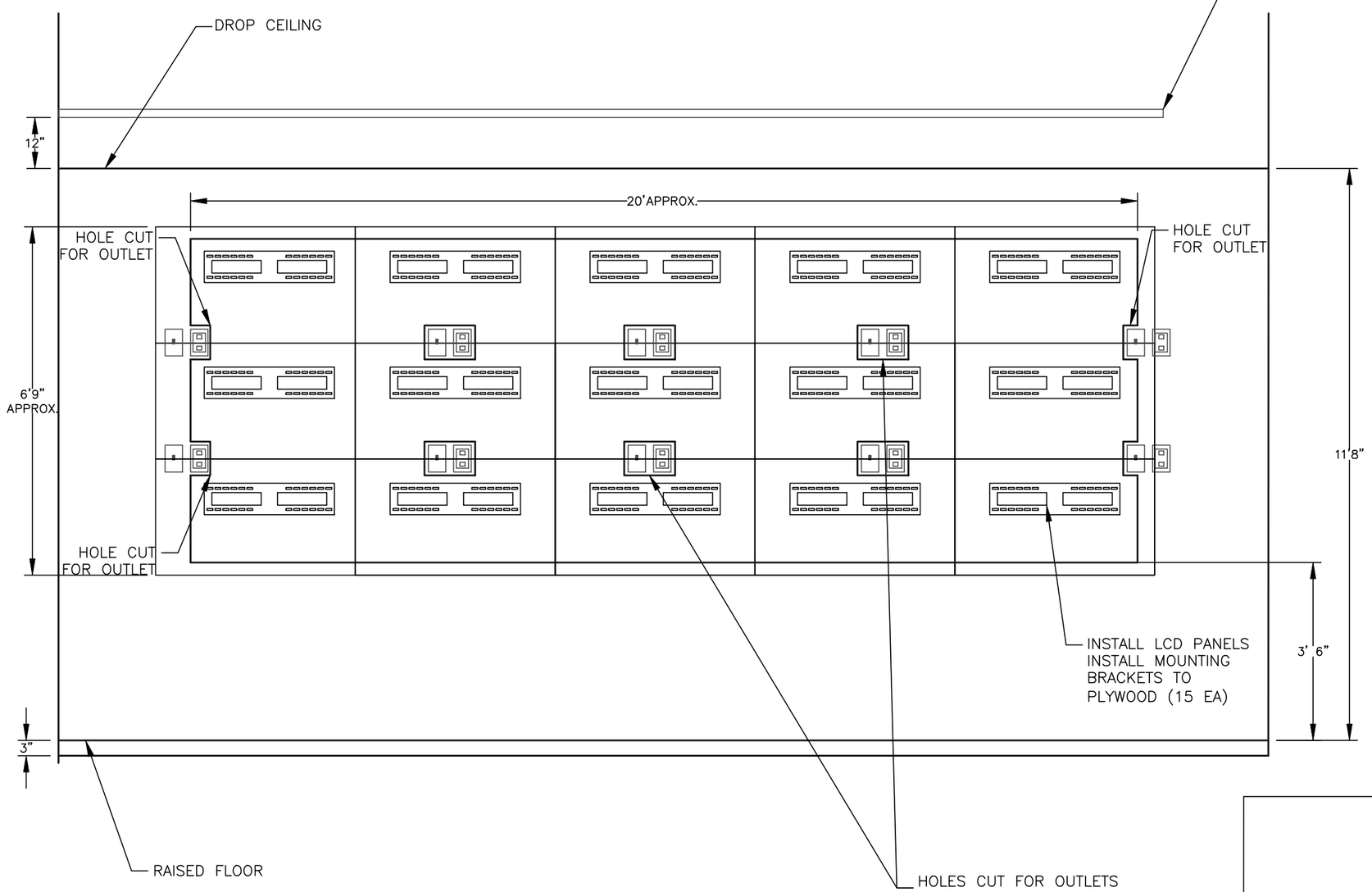
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

TMC
EQUIPMENT LAYOUT PLAN

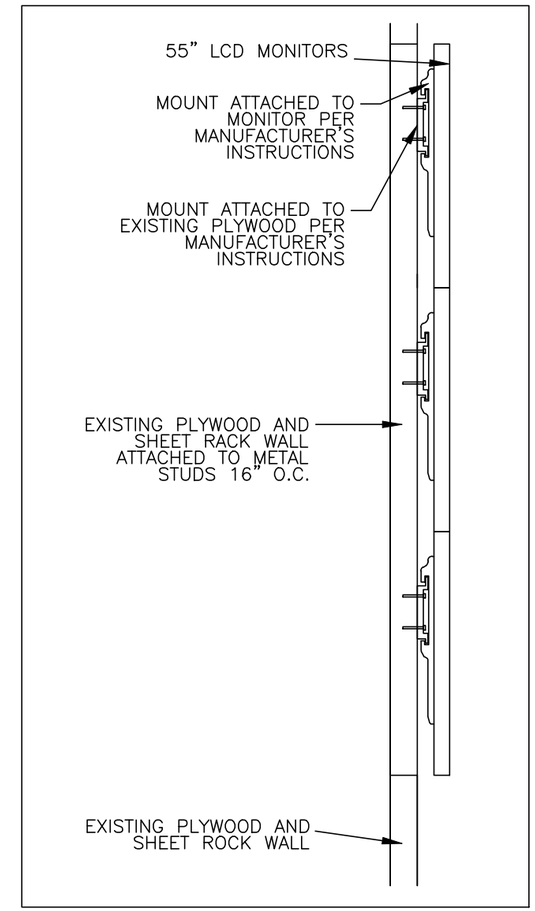
SHEET
7–3
SCALE 1" = 5'

VIDEO WALL MOUNT DETAIL CONTROL ROOM
WEST ELEVATION VIEW



SNAKE TRAY
DETAIL PROFILE VIEW

N.T.S.



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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

TMC CONTROL ROOM
VIDEO WALL MOUNT DETAIL
ELEVATION AND PROFILE

SHEET
7-4

SCALE N.T.S

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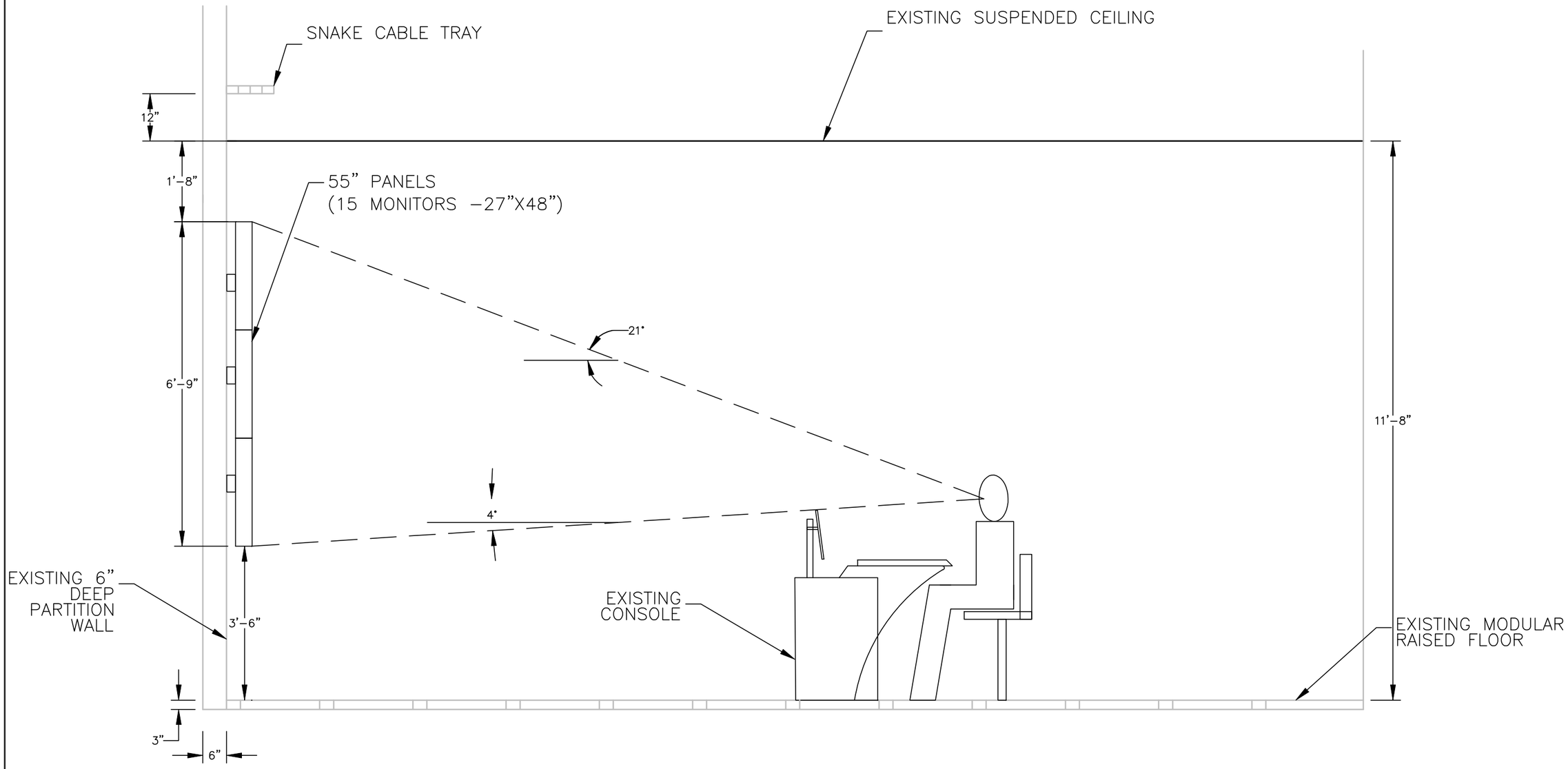

PROFILE VIEW
CONTROL ROOM

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CITY OF ALEXANDRIA, VIRGINIA
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TMC
CONTROL ROOM PROFILE

SHEET
7-5
SCALE N.T.S

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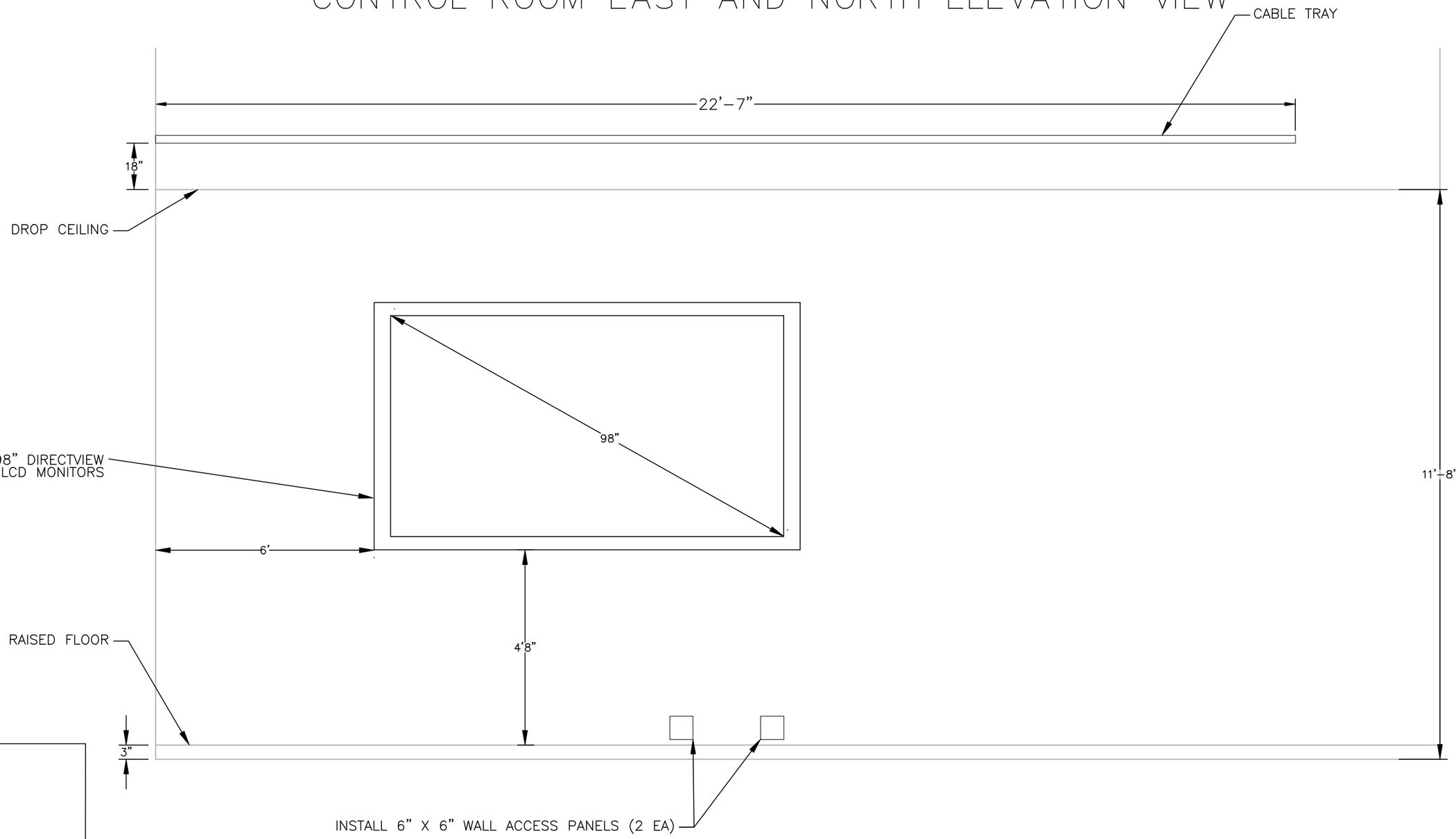
MONITOR WALL
CONTROL ROOM EAST AND NORTH ELEVATION VIEW



NOTES:

1. REMOVE EXISTING MONITORS AND CABLING (NOT SHOWN).
2. ALL CABLING TO BE ROUTED BEHIND EXISTING WALL.
3. POWER AND VIDEO CABLING FROM LCD MONITORS TO WALL OUTLETS NOT SHOWN. (INCLUDED IN COST OF MONITORS).
4. EXISTING POWER CABLING TO EXISTING DUPLEX OUTLETS NOT SHOWN.
5. SEE SHEET 6-8 FOR LCD MONITOR MOUNTING DETAIL.

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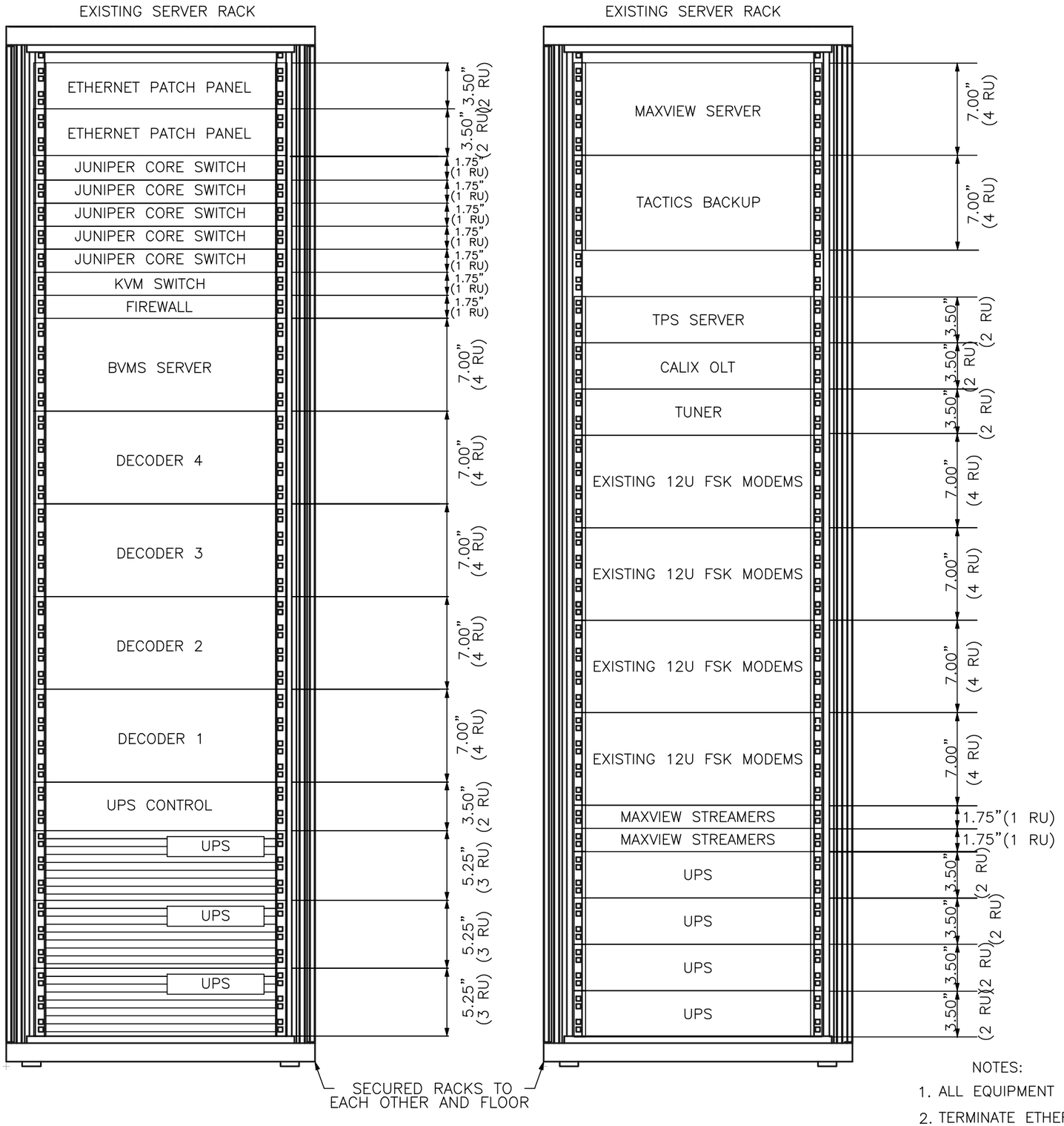
TMC CONTROL ROOM
WEST WALL ELEVATION VIEW

SHEET
7-6

SCALE N.T.S



NOTES:

1. ALL EQUIPMENT IS PROPOSED EXCEPT AS NOTED
2. TERMINATE ETHERNET CABLING ON PATCH PANEL.
3. LOCATION OF EXISTING EQUIPMENT IN EXISTING SERVER RACK SUBJECT TO CHANGE.

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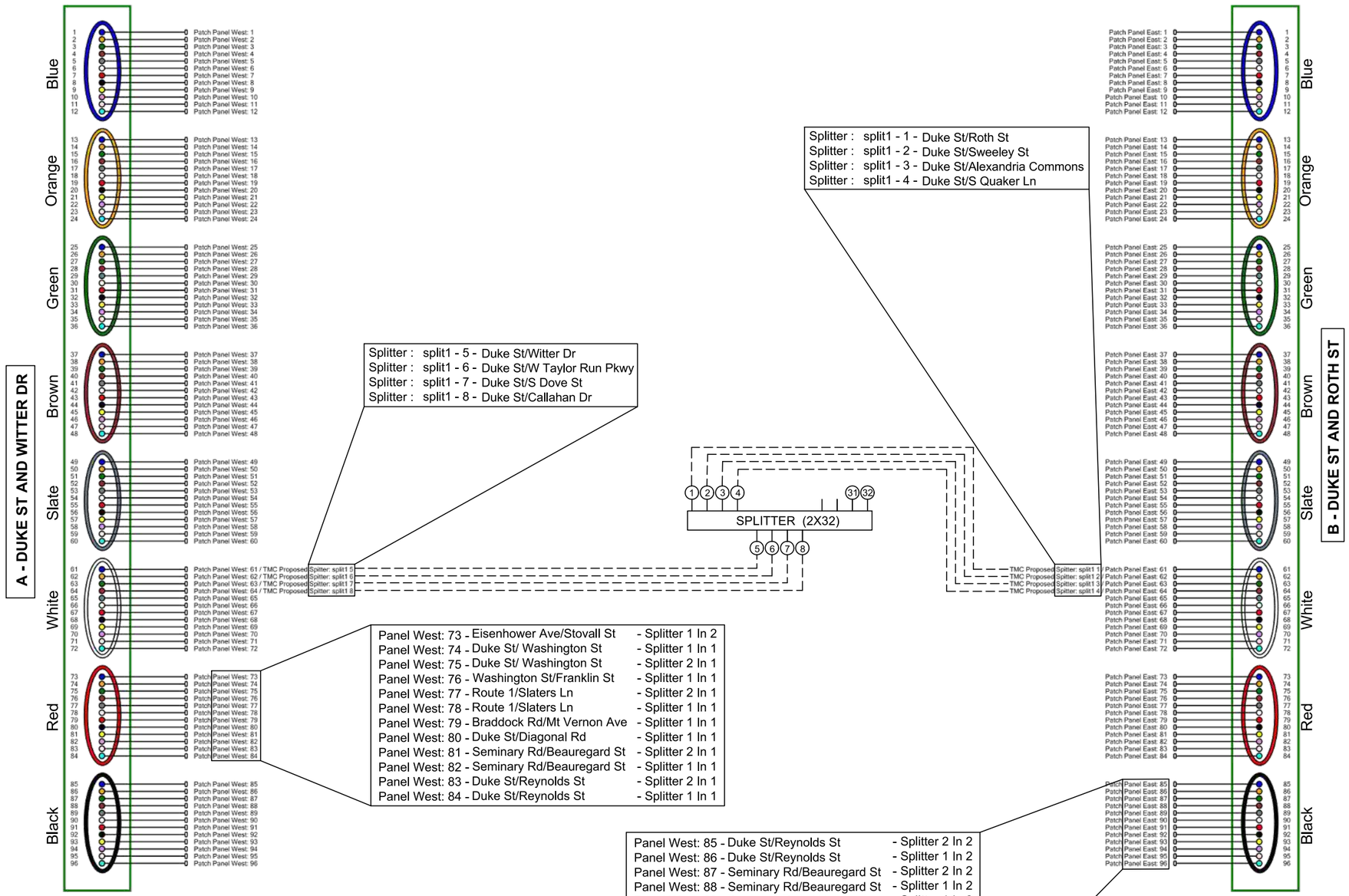
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

TRAFFIC MANAGEMENT CENTER RACK DETAIL

SHEET 7-7

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Duke & Witter
- B - BFO 96 to Pullbox@Duke & Roth

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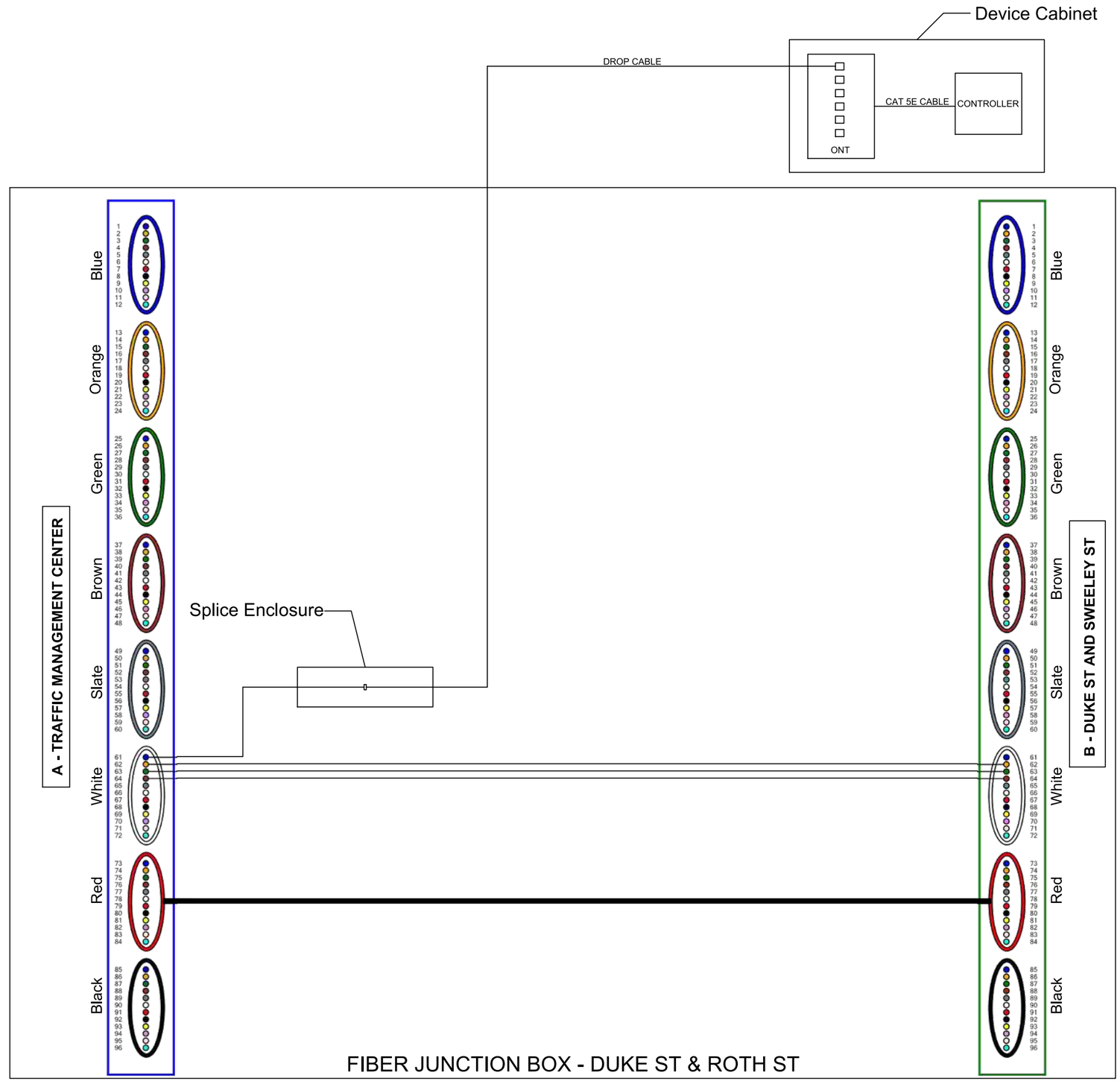
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
TRAFFIC MANAGEMENT CENTER

SHEET
8-1
SCALE N.T.S.



LEGEND
A - BFO 96 to TrafficManagementCenter
B - BFO 96 to Pullbox @ Duke & Sweeley

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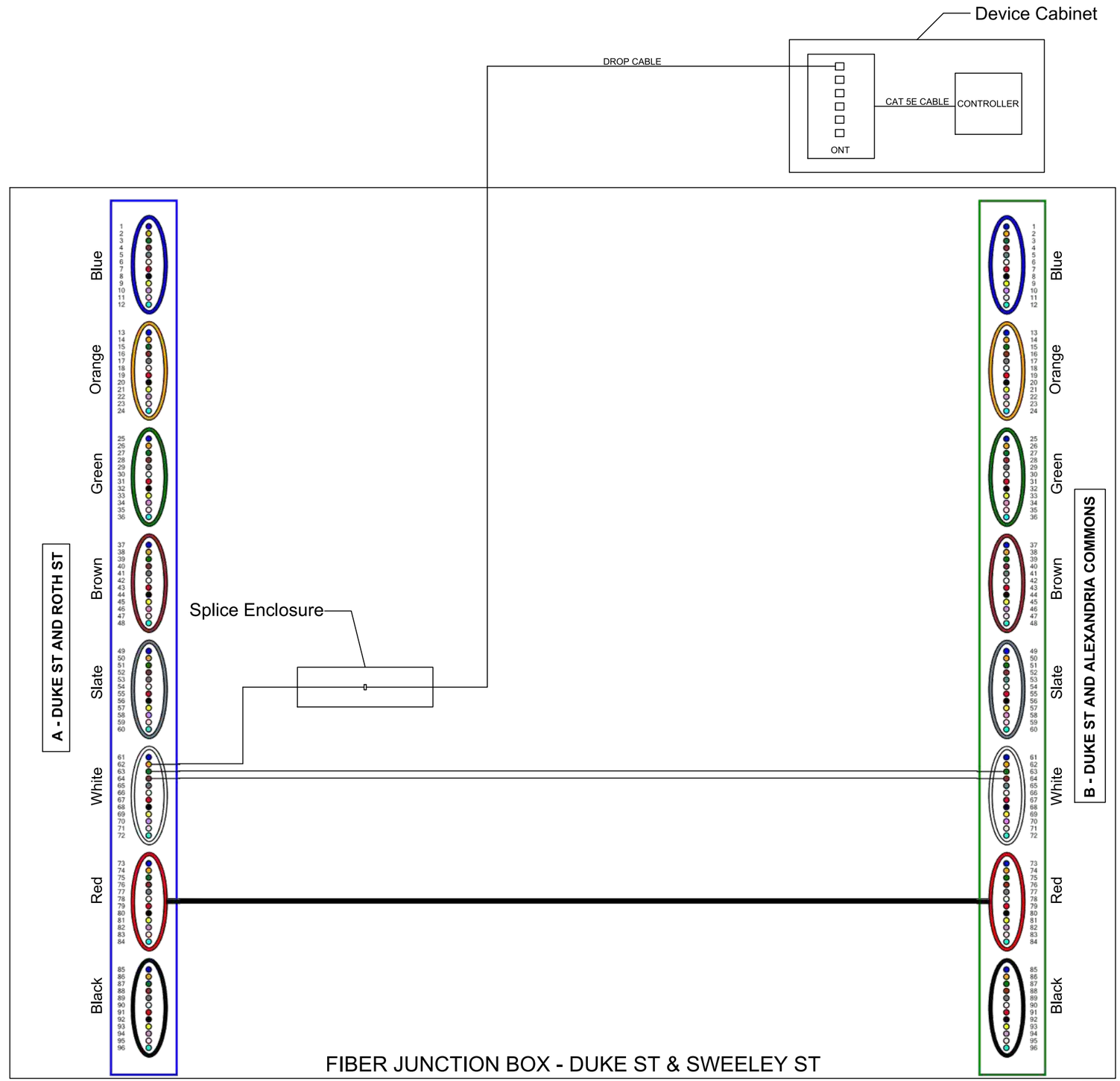
SPLICING DIAGRAM
DUKE ST & ROTH ST

SHEET
8-2
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox@Duke & Roth
B - BFO 96 to Pullbox @ Duke & Alexandria Commons

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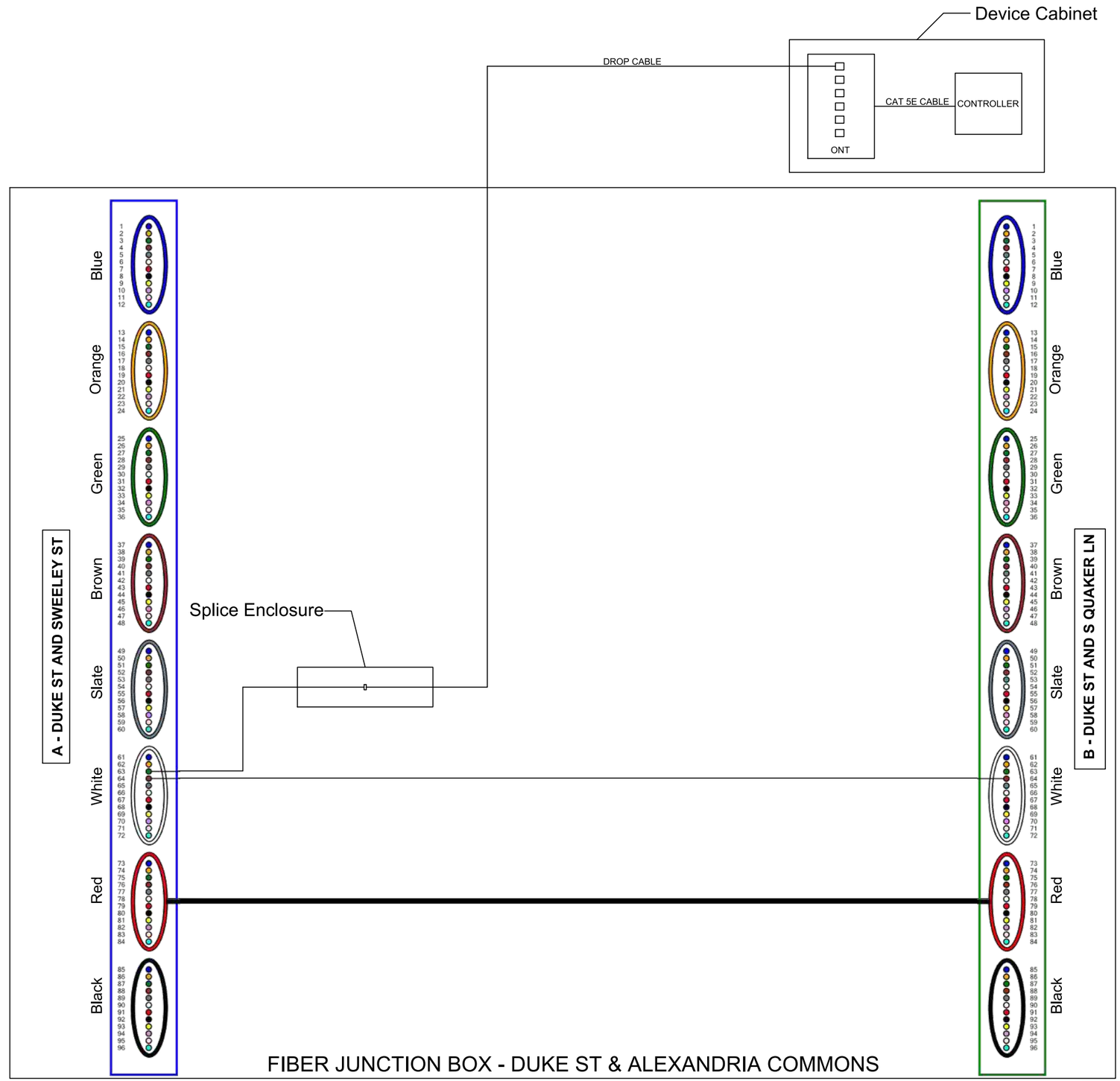
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
DUKE ST & SWEELEY ST

SHEET
8-3
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & Sweeley
B - BFO 96 to Pullbox @ Duke & S Quaker

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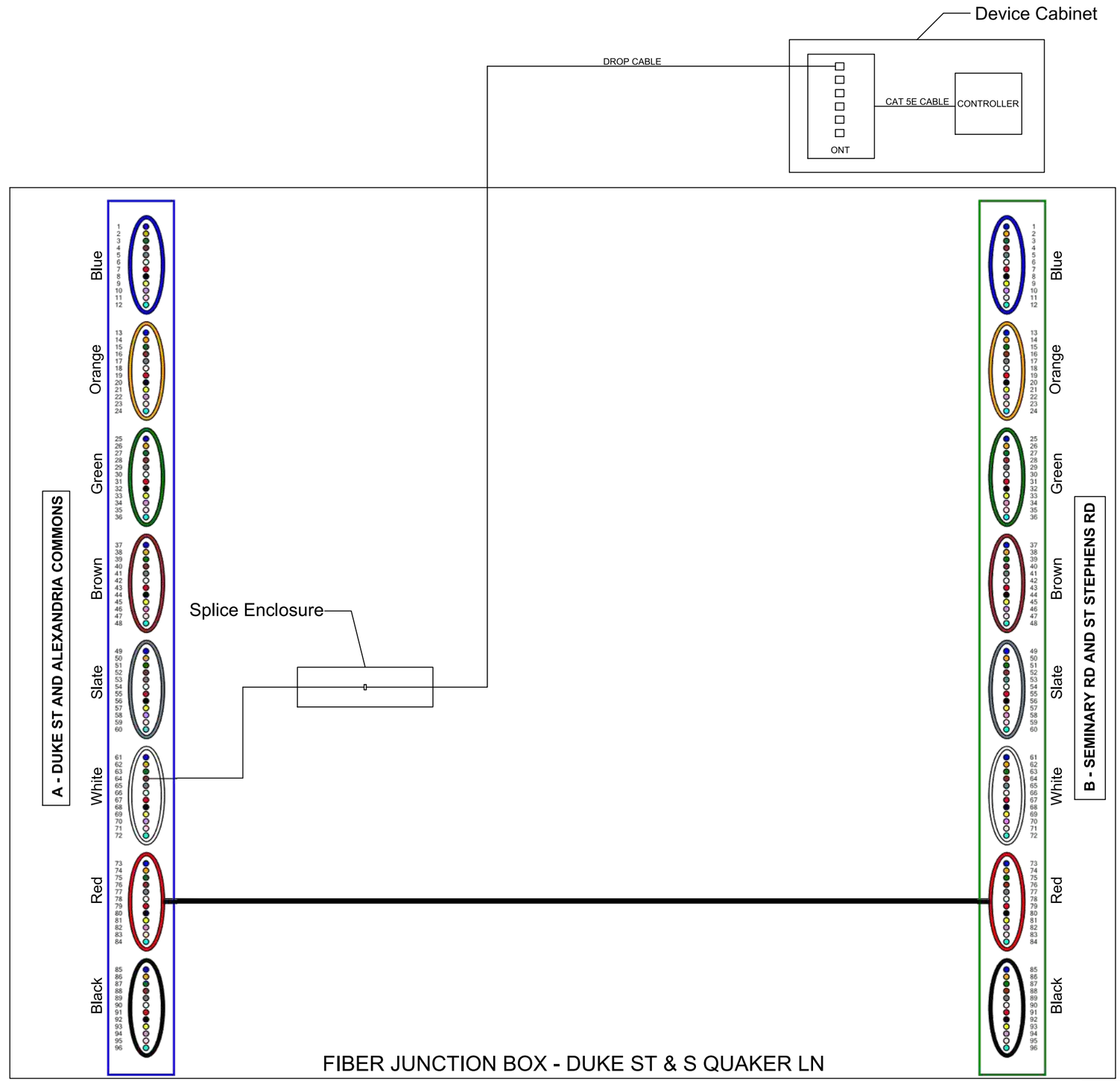
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
DUKE ST & ALEXANDRIA COMMONS

SHEET
8-4
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & Alexandria Commons
B - BFO 96 to Pullbox @ Seminary & St Stephens

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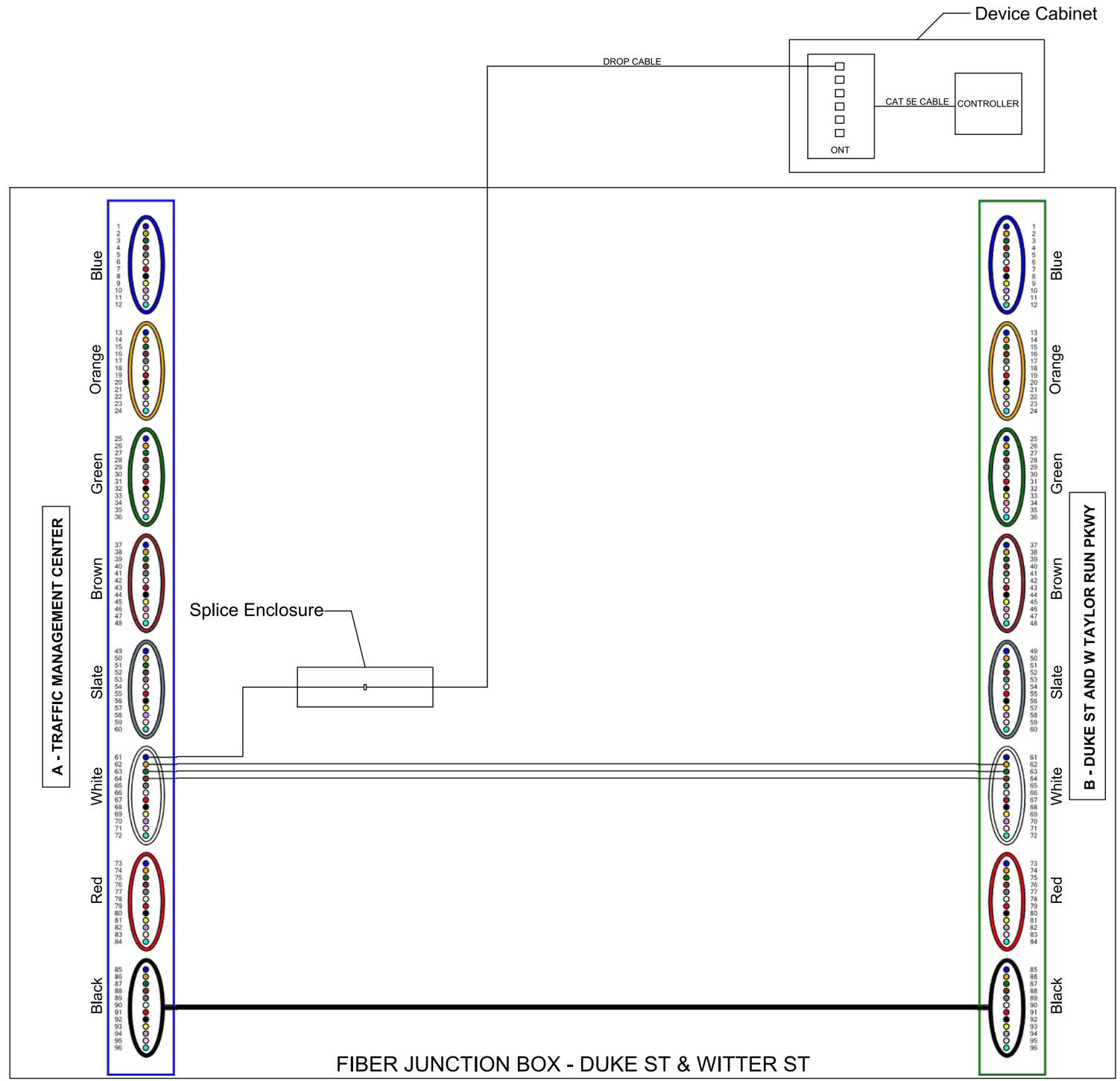
SPLICING DIAGRAM
DUKE ST & S QUAKER LN

SHEET
8-5
SCALE N.T.S.



LEGEND
A - BFO 96 to TrafficManagementCenter
B - BFO 96 to Pullbox @ Duke & W Taylor Run

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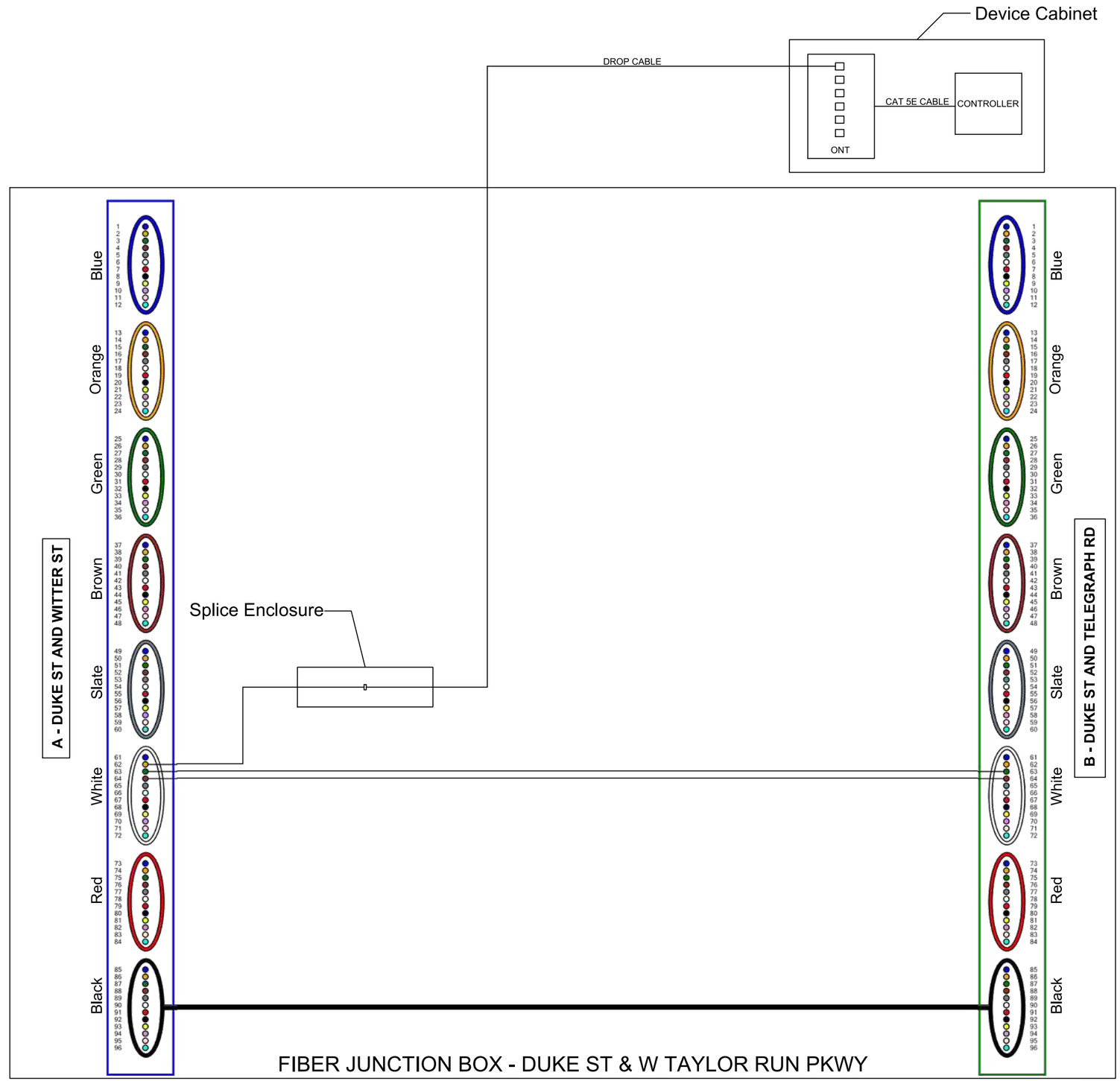
SPLICING DIAGRAM
DUKE ST & WITTER ST

SHEET
8-6
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Duke & Witter
- B - BFO 96 to Pullbox @ Duke & Telegraph

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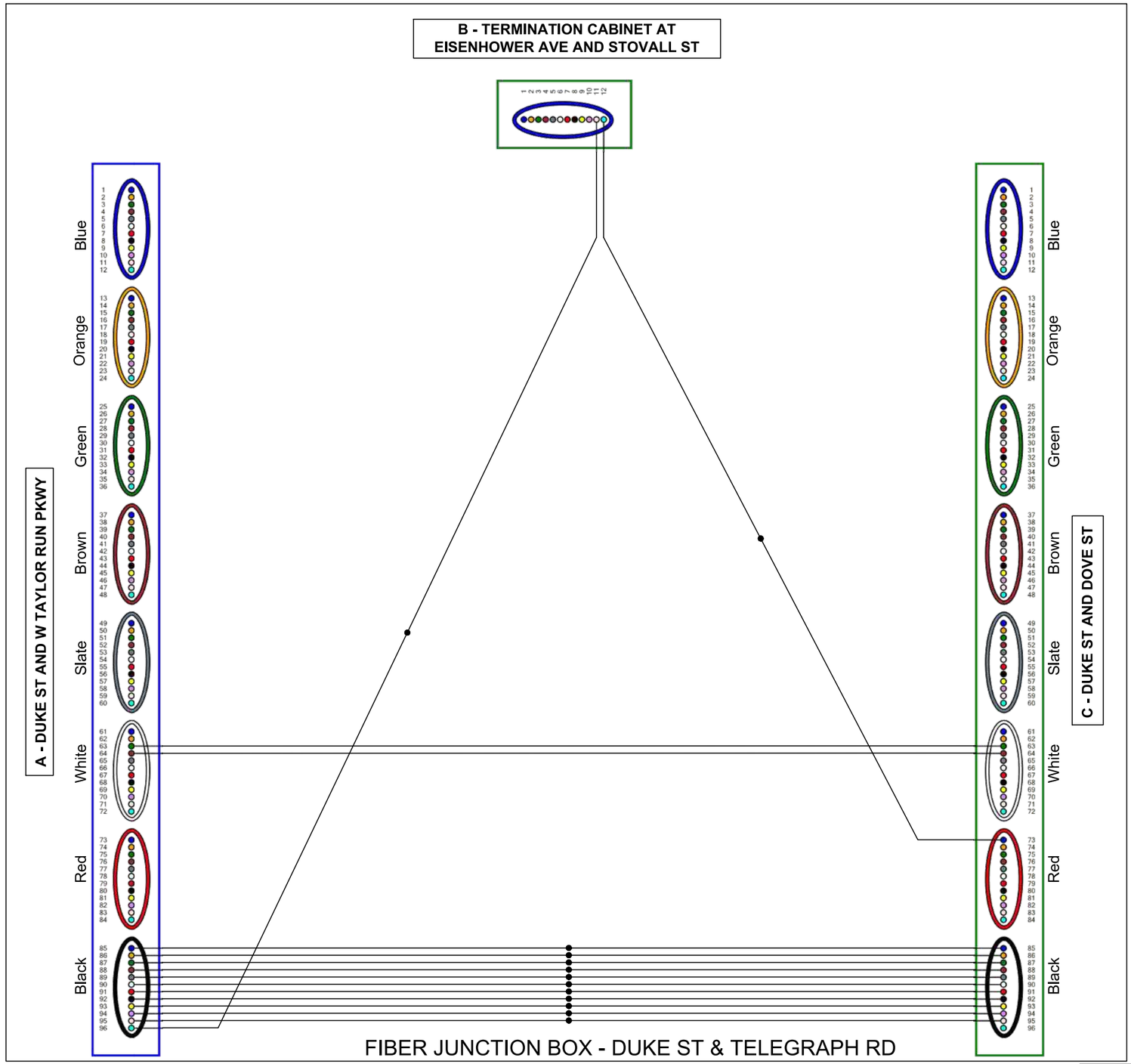
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
DUKE ST & W TAYLOR RUN PKWY

SHEET
8-7
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & W Taylor Run
B - BFO 12 to Term Cab @ Stovall & Eisenhower
C - BFO 96 to Pullbox @ Duke & Dove

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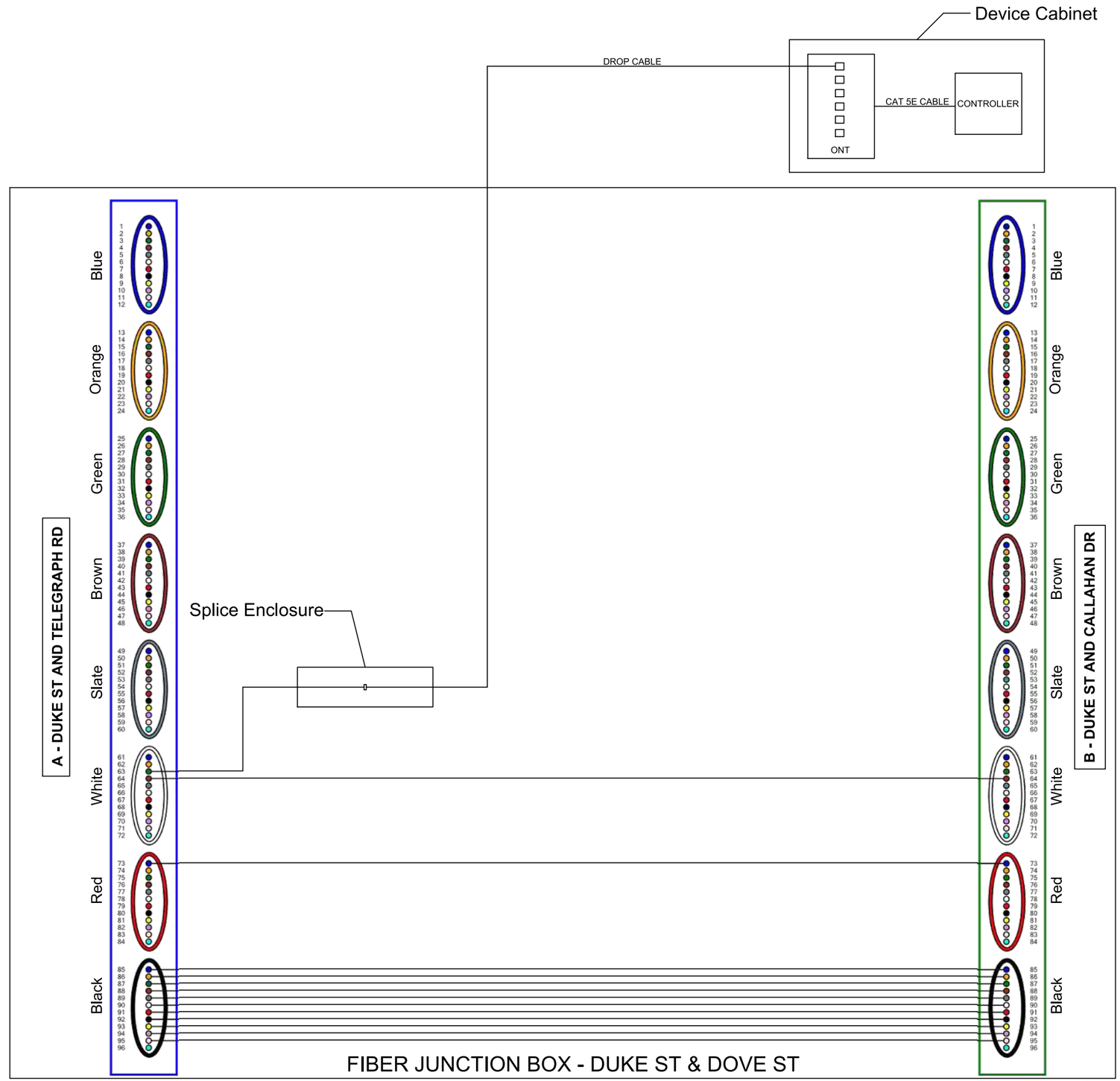
SPLICING DIAGRAM
DUKE ST & TELEGRAPH RD

SHEET
8-8
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & Telegraph
B - BFO 96 to Pullbox @ Duke & Callahan

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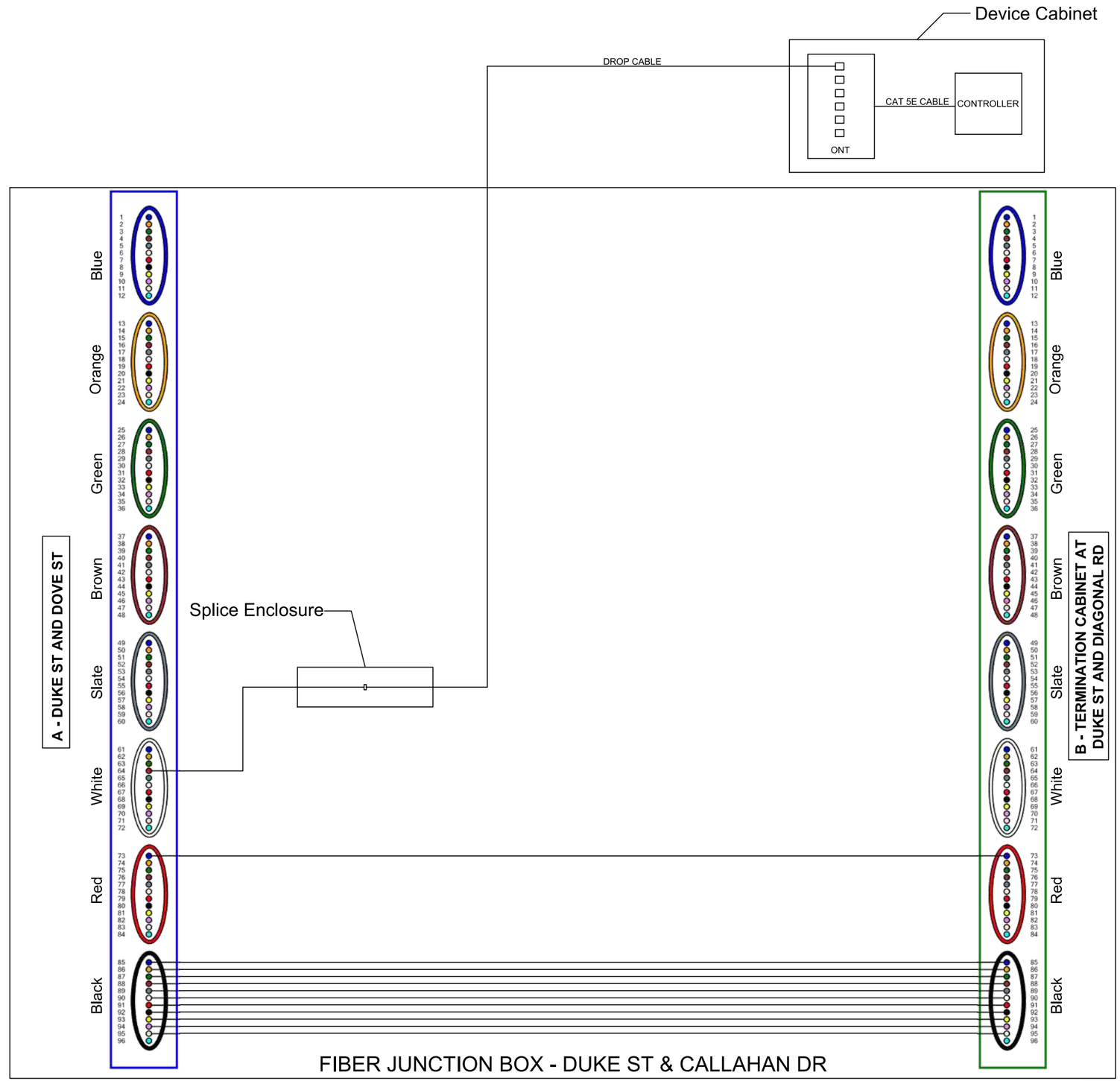
SPLICING DIAGRAM
DUKE ST & DOVE ST

SHEET
8-9
SCALE N.T.S.



LEGEND
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B - BFO 96 to Pullbox @ Duke & Callahan

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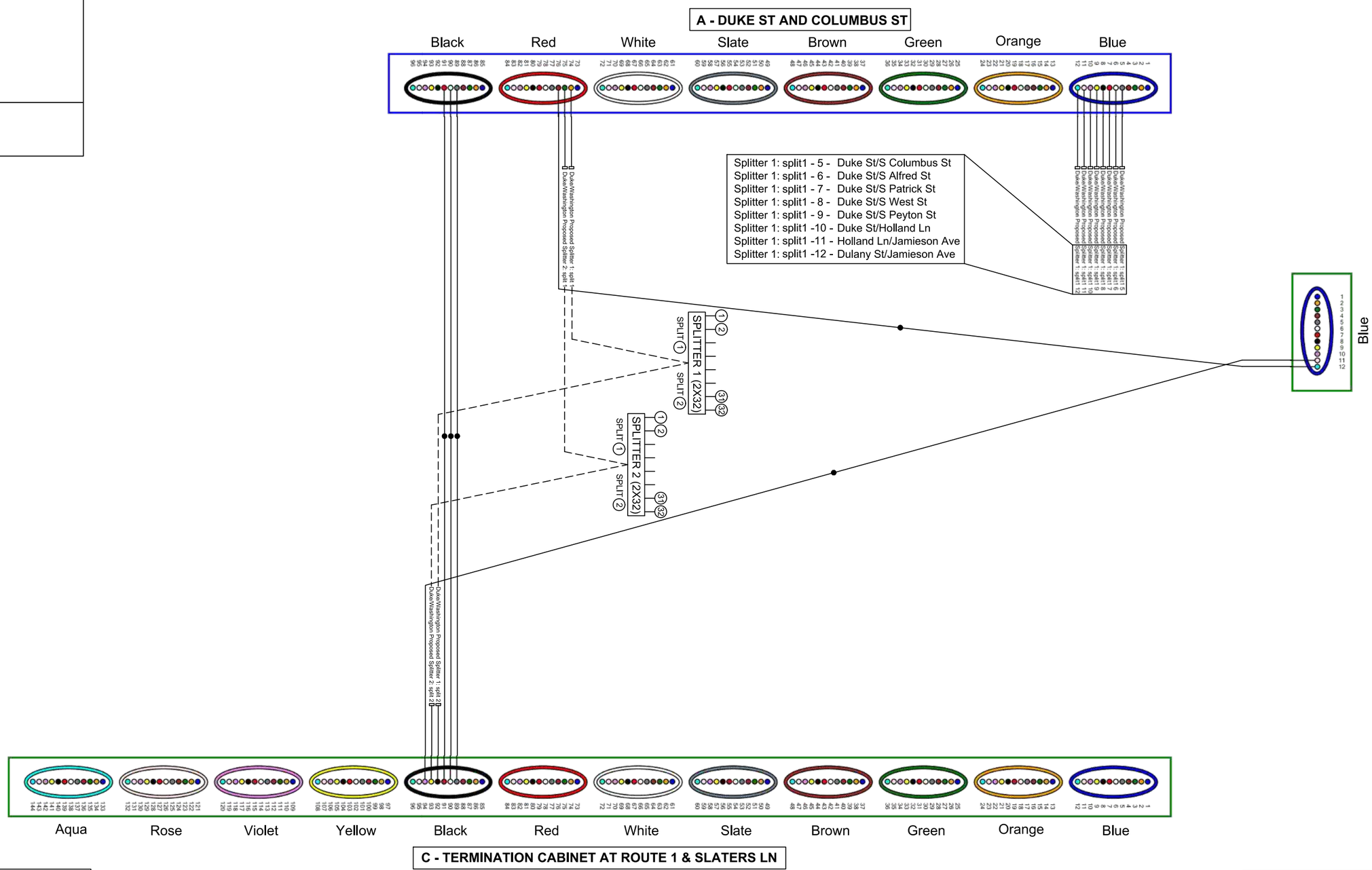
SPLICING DIAGRAM
DUKE ST & CALLAHAN DR

SHEET
8–10
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Duke & S Columbus
- B - BFO 12 to Pullbox @ Washington & Wolfe
- C - BFO 144 to Term Cab @ RT1 & Slaters

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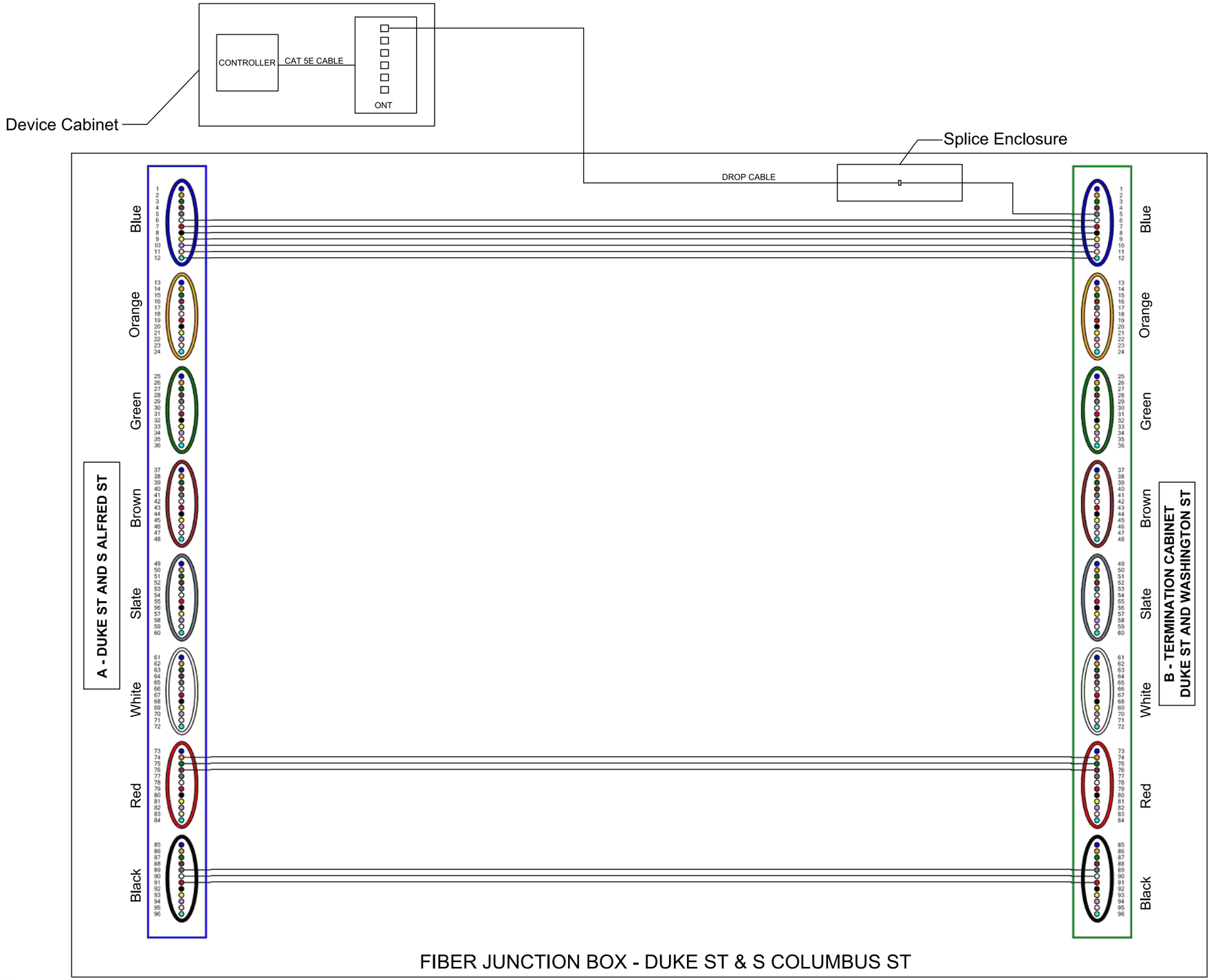
SPLICING DIAGRAM
TERMINATION CABINET
DUKE ST & WASHINGTON ST

SHEET
8–11

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & S Alfred
B - BFO 96 to Term Cab @ Duke & Washington

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	BY	DESCRIPTION

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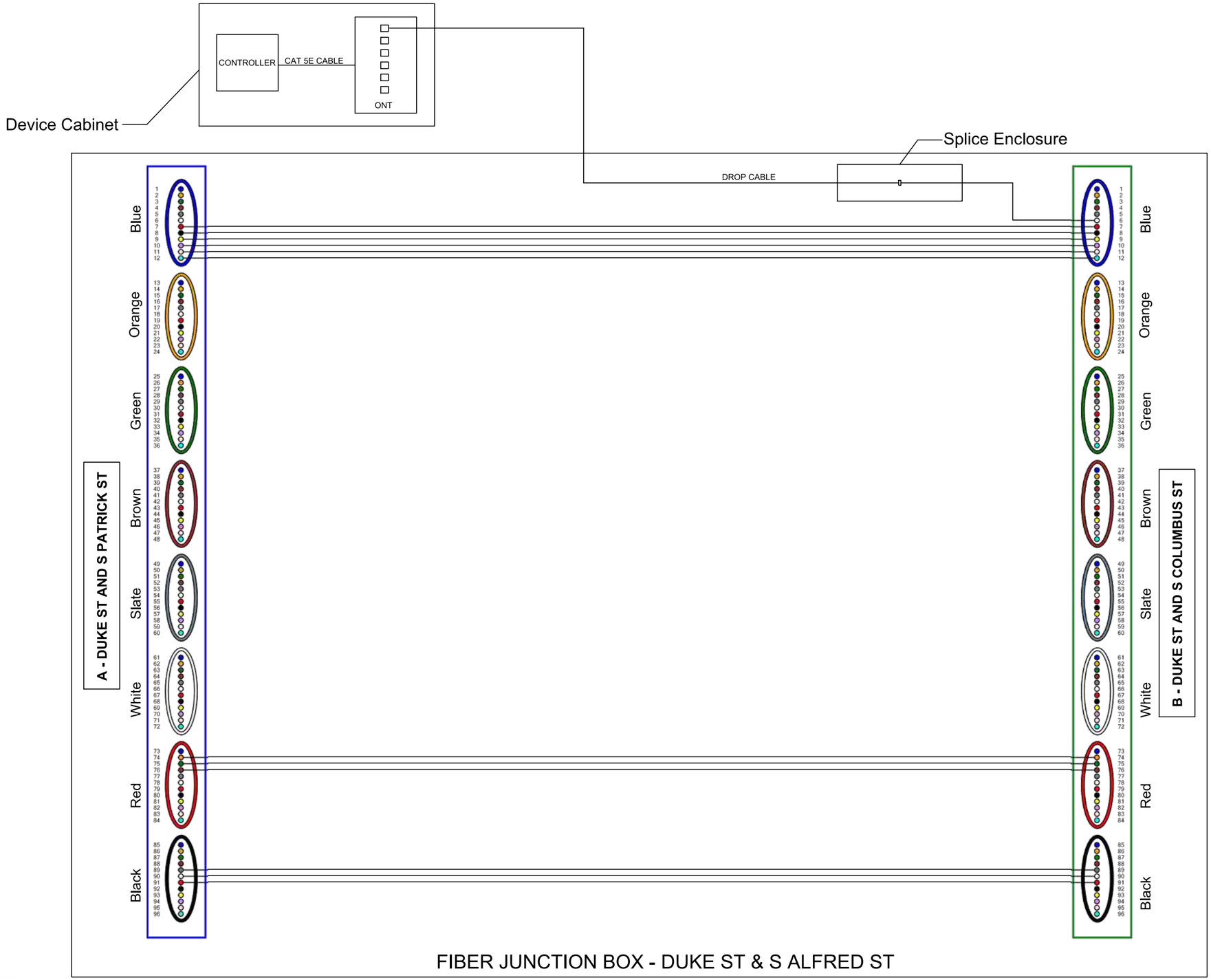
SPLICING DIAGRAM
DUKE ST & S COLUMBUS ST

SHEET
8-12

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & S Patrick
B - BFO 96 to Pullbox @ Duke & S Columbus

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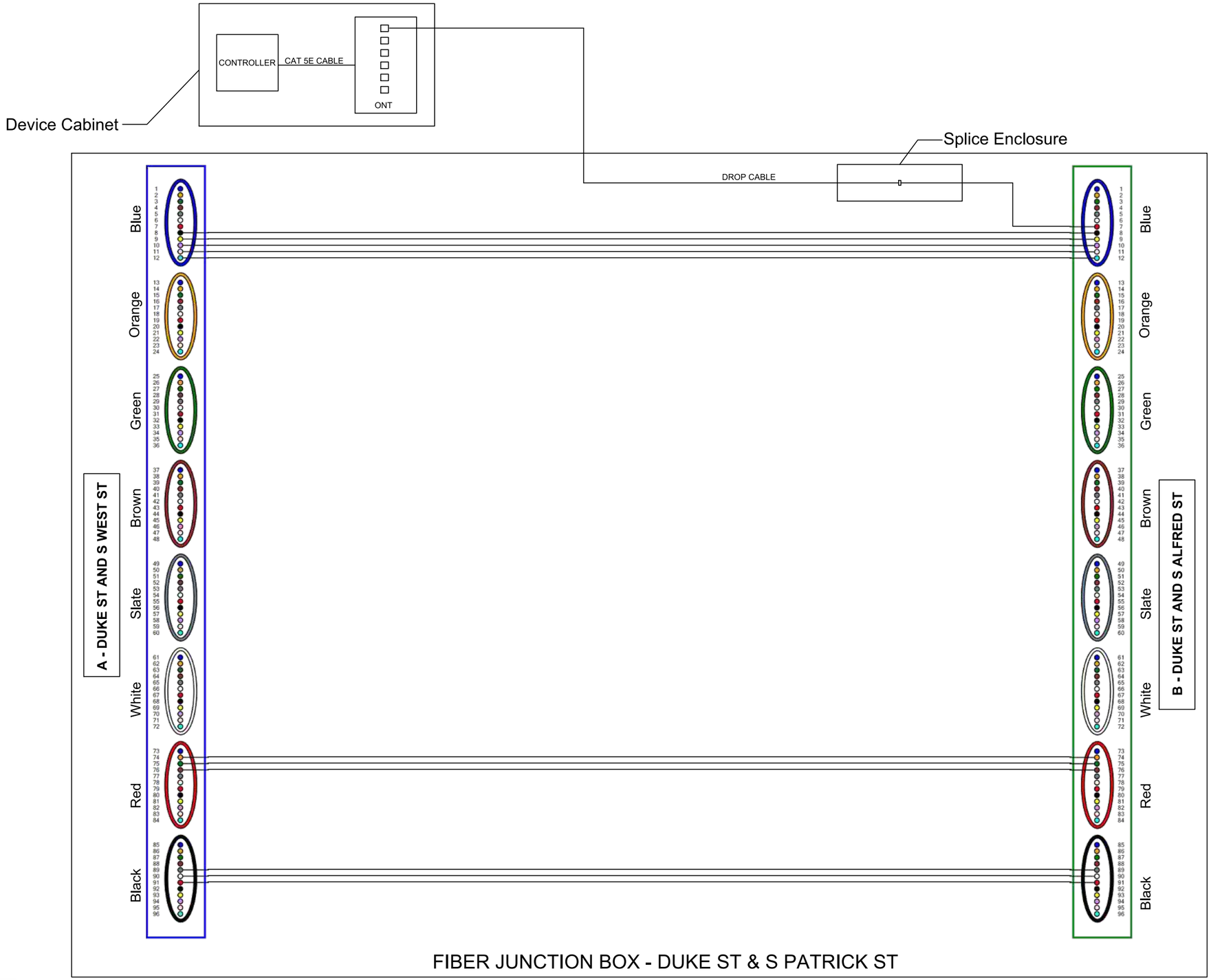
SPLICING DIAGRAM
DUKE ST & S ALFRED ST

SHEET
8-13

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & S West
B - BFO 96 to Pullbox @ Duke & S Alfred

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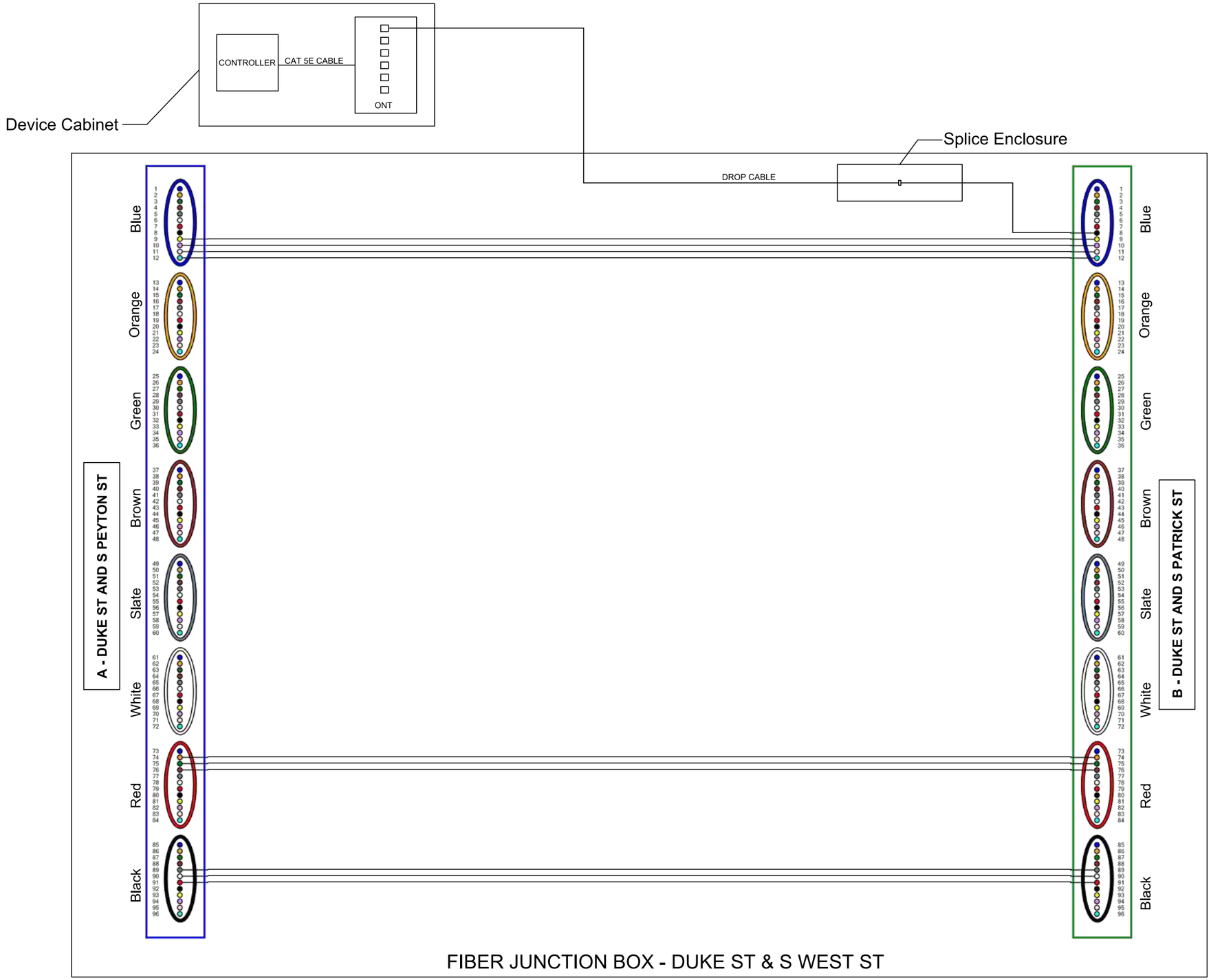
SPLICING DIAGRAM
DUKE ST & S PATRICK ST

SHEET
8-14

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Duke & S Peyton
- B - BFO 96 to Pullbox @ Duke & S Patrick

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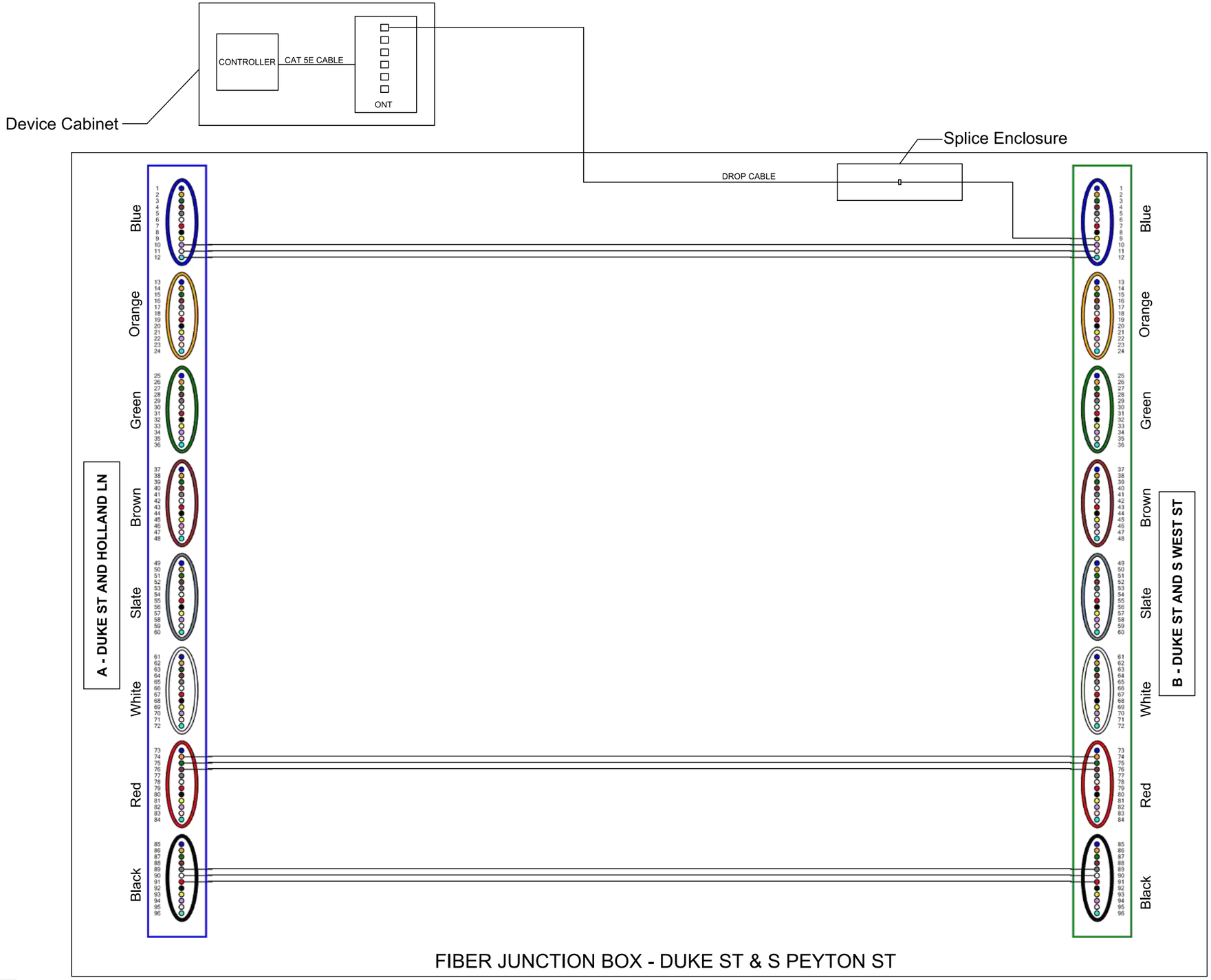
SPLICING DIAGRAM
DUKE ST & S WEST ST

SHEET
8–15

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Duke & Holland
B - BFO 96 to Pullbox @ Duke & S West

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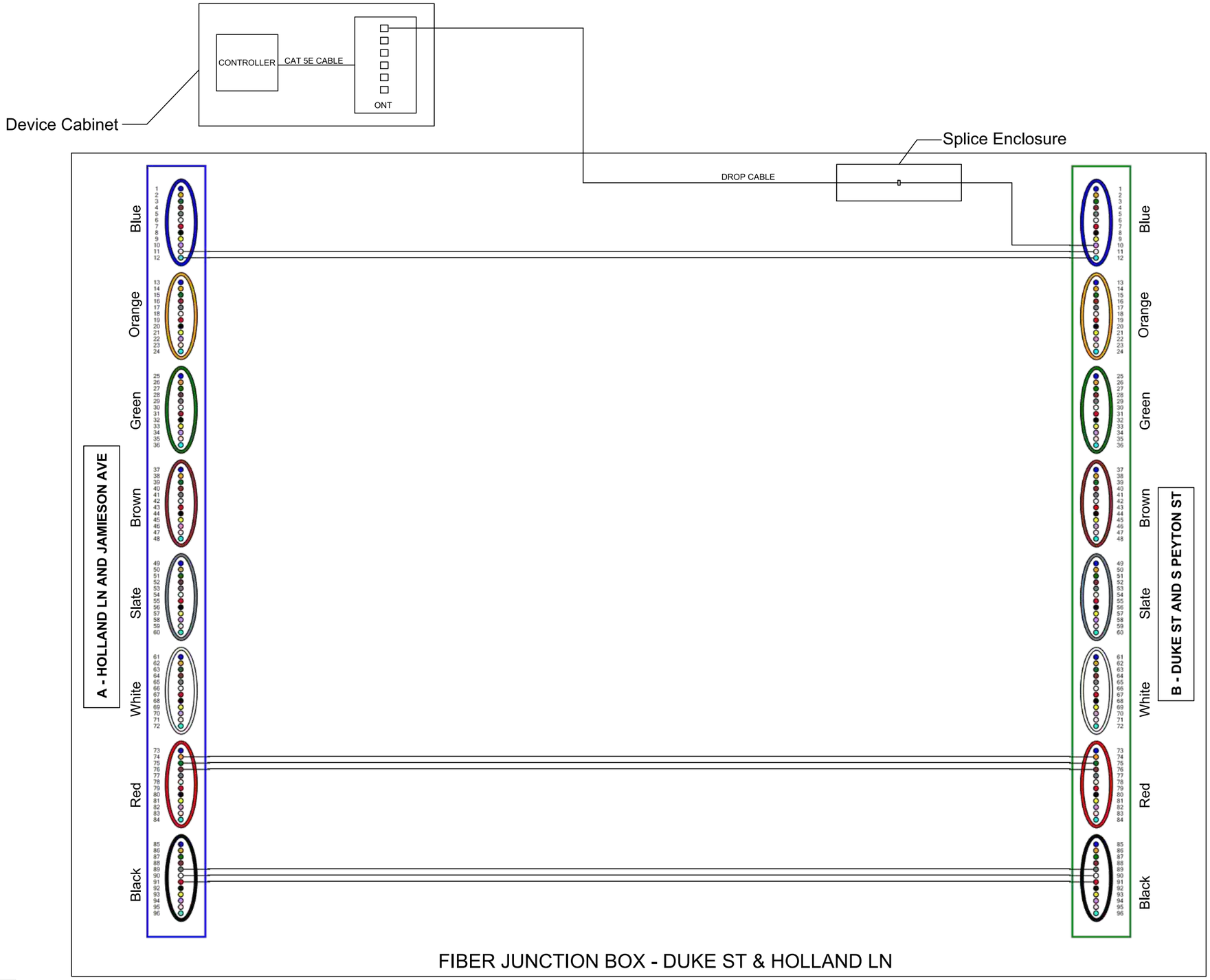
SPLICING DIAGRAM
DUKE ST & S PEYTON ST

SHEET
8-16

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Holland & Jamieson
B - BFO 96 to Pullbox @ Duke & S Peyton

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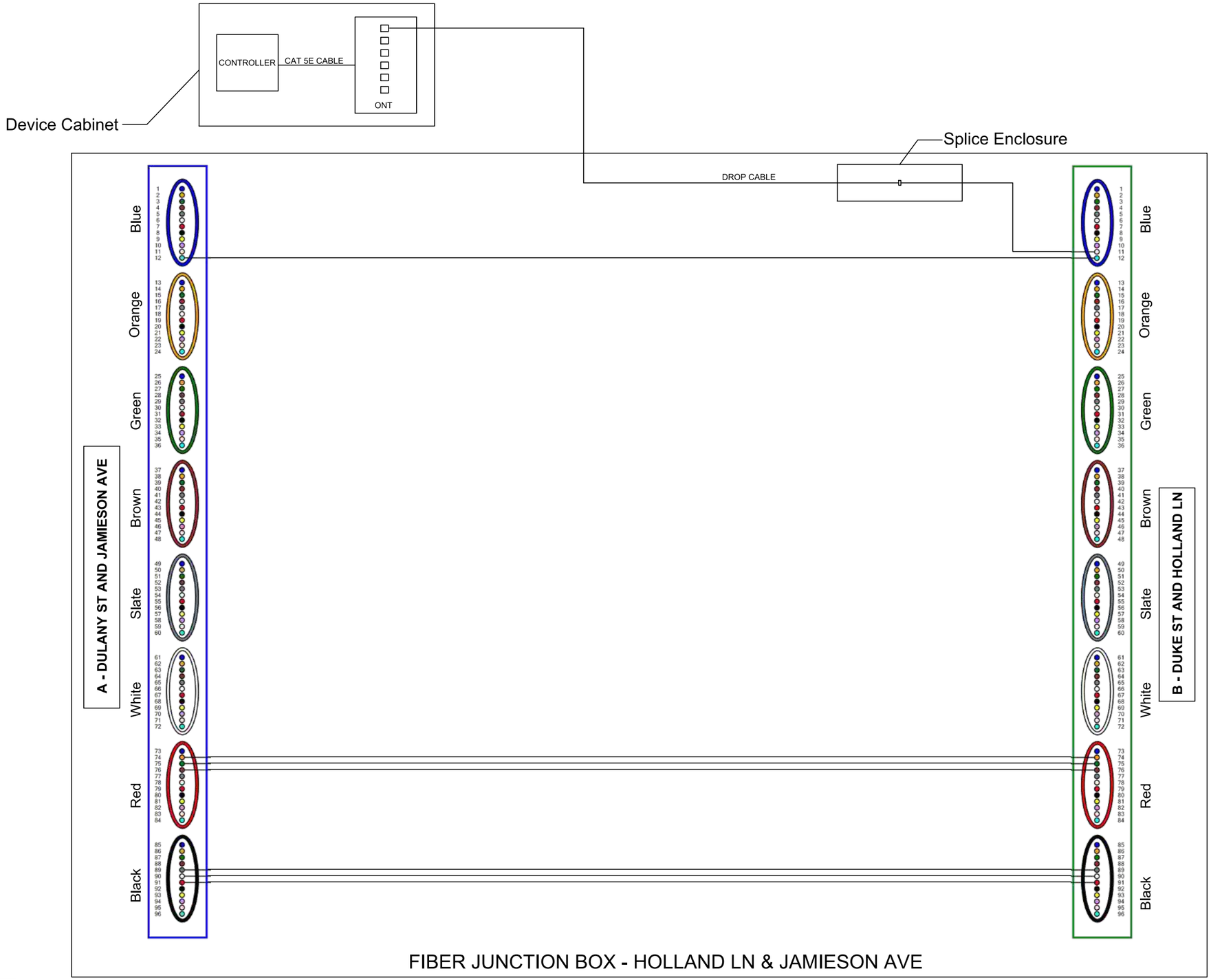
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
DUKE ST & HOLLAND LN

SHEET
8-17

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Dulany & Jamieson
- B - BFO 96 to Pullbox @ Duke & Holland

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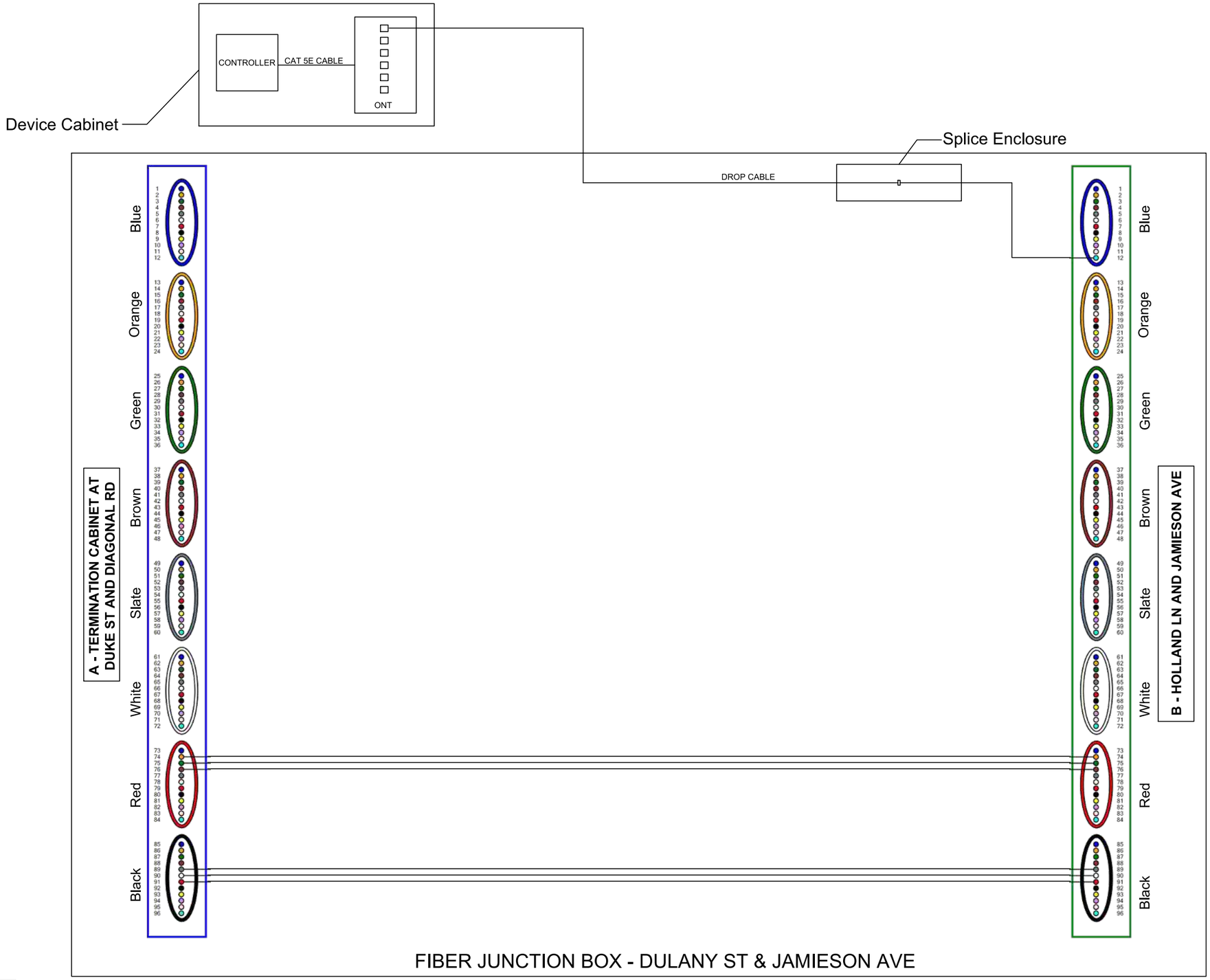
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
HOLLAND LN & JAMIESON AVE

SHEET
8-18

SCALE N.T.S.



LEGEND

- A - BFO 96 to Term Cab @ Duke & Diagnal
- B - BFO 96 to Pullbox @ Holland & Jamieson

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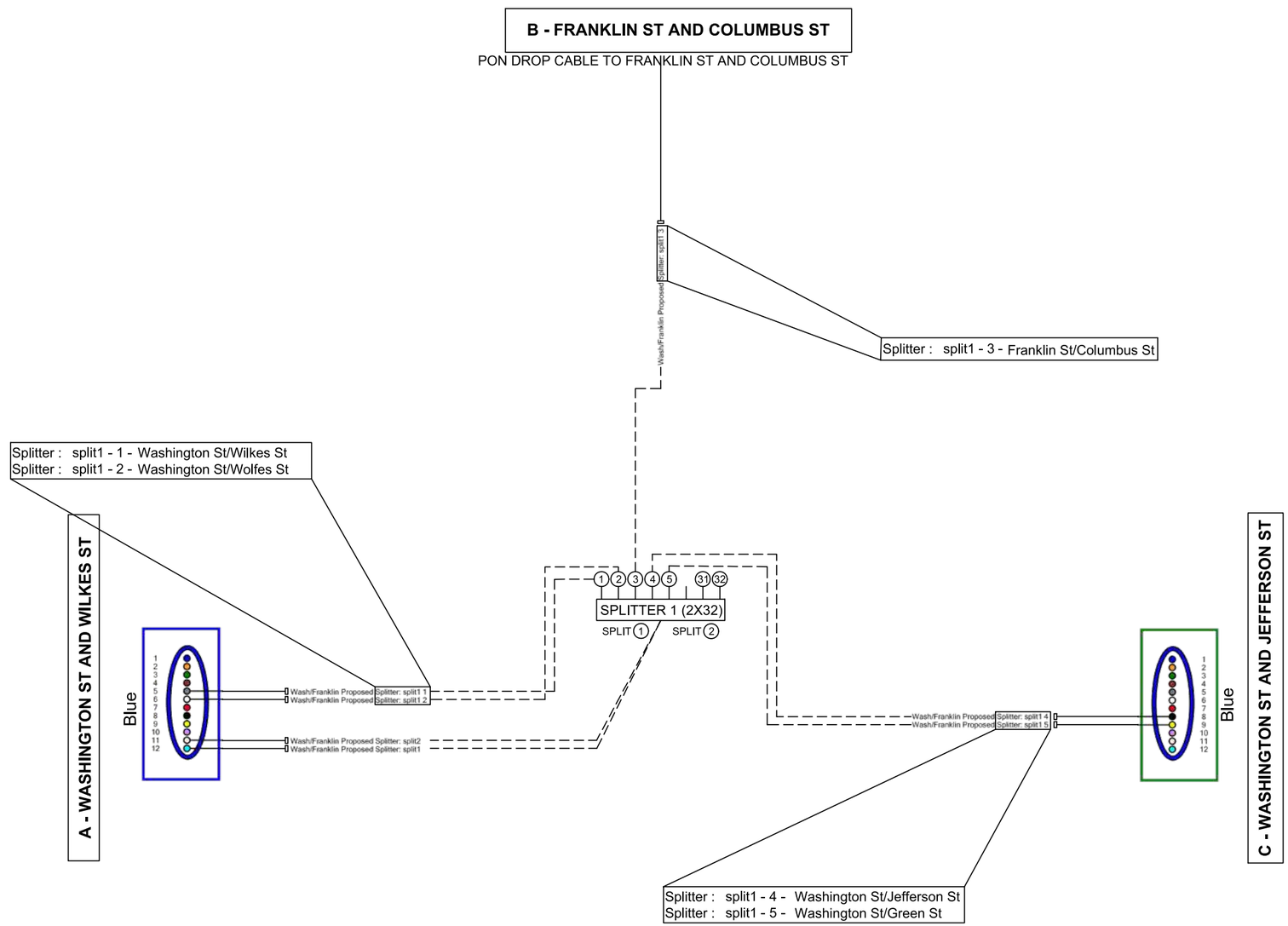
SPLICING DIAGRAM
DULANY ST & JAMIESON AVE

SHEET
8–19

SCALE N.T.S.



NOTE:
REFER SHEET 5-18 FOR ACTIVE NETWORK SPLICE DIAGRAM AT WASHINGTON ST & FRANKLIN ST

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LEGEND

- A - BFO 12 to Pullbox @ Washington & Wilkes
- B - BFO 12 to Pullbox @ Franklin & S Columbus
- C - BFO 12 to Pullbox @ Wash & Jefferson

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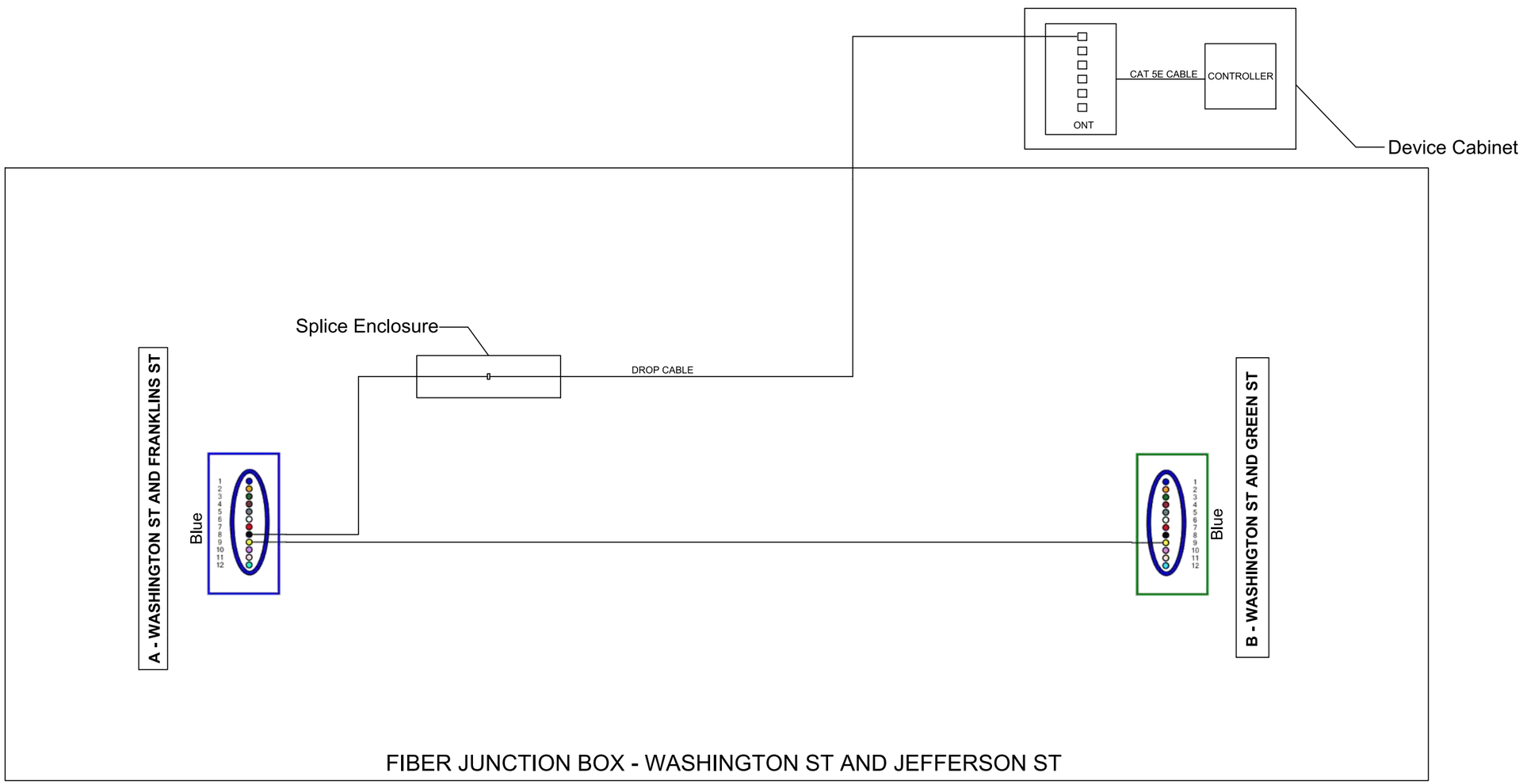
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
TERMINATION CABINET
WASHINGTON ST & FRANKLIN ST

SHEET
8–20

SCALE N.T.S.



LEGEND
A - BFO 12 to Term Cab @ Wash & Franklin
B - BFO 12 to Pullbox @ Wash & Green

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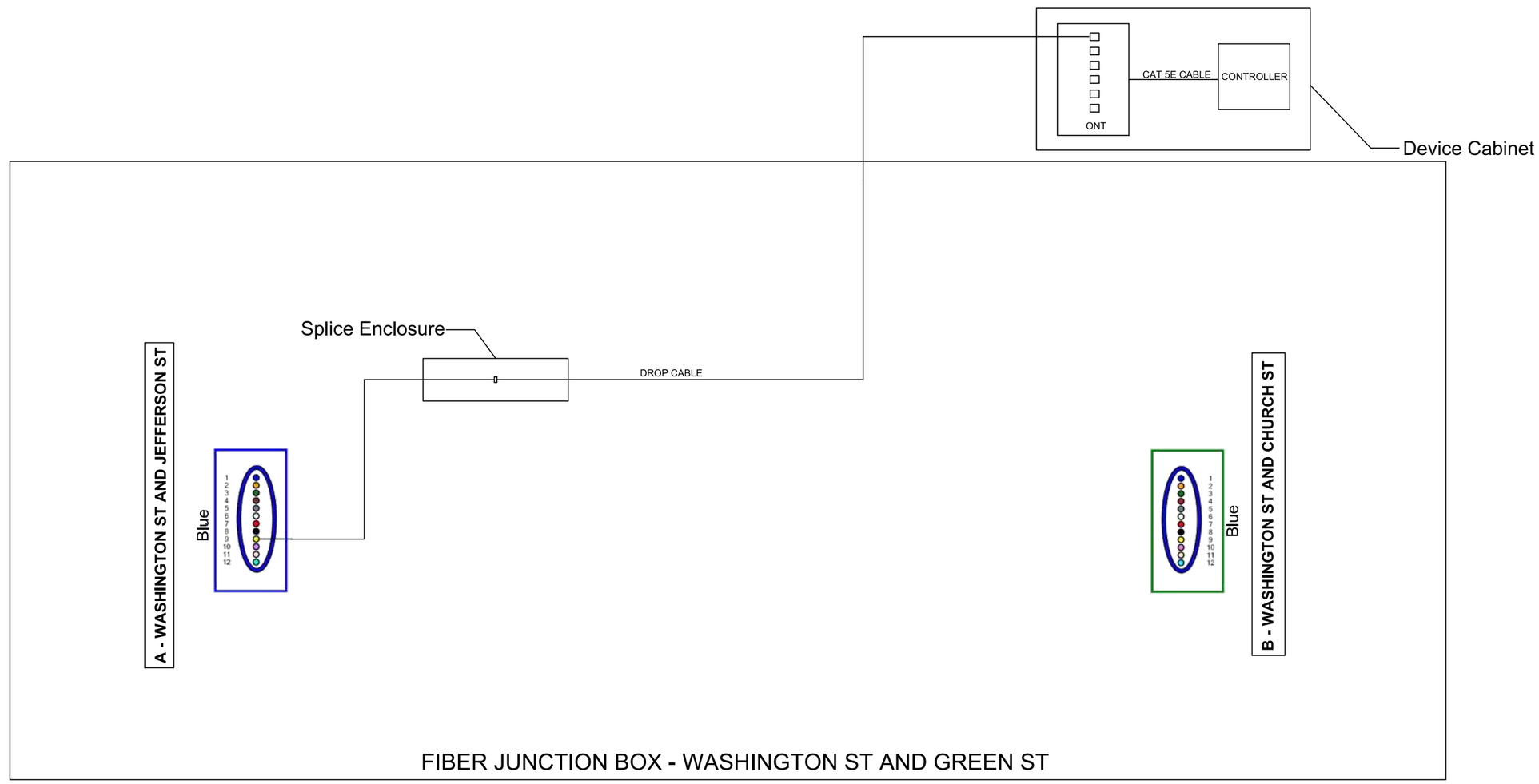
SPLICING DIAGRAM
WASHINGTON ST & JEFFERSON ST

SHEET
8-21

SCALE N.T.S.



LEGEND
A - BFO 12 to Pullbox @ Wash & Jefferson
B - BFO 12 to Pullbox @ Wash & Church

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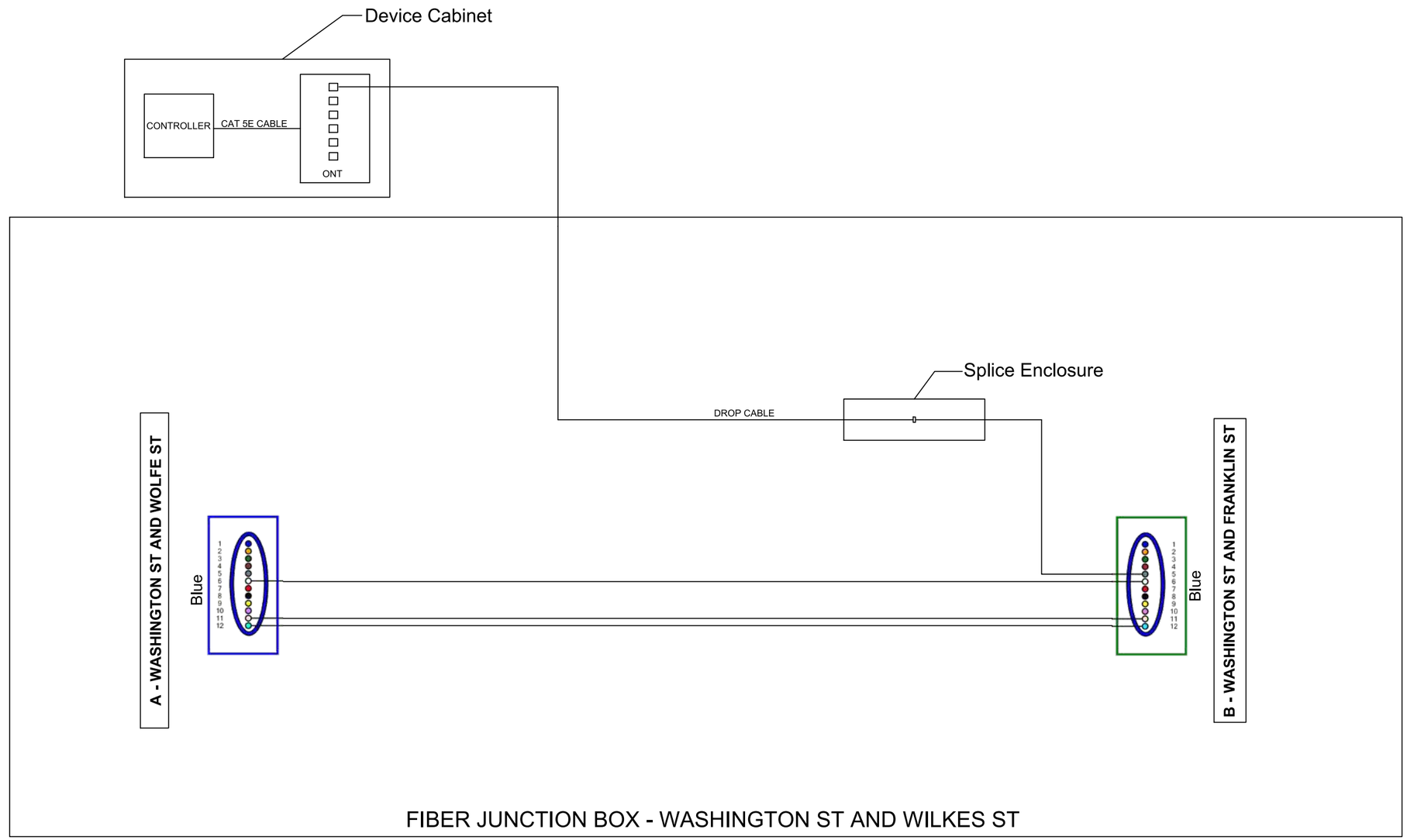
SPLICING DIAGRAM
WASHINGTON ST & GREEN ST

SHEET
8-22

SCALE N.T.S.



LEGEND
A - BFO 12 to Pullbox @ Washington & Wolfe
B - BFO 12 to Term Cab @ Wash & Franklin

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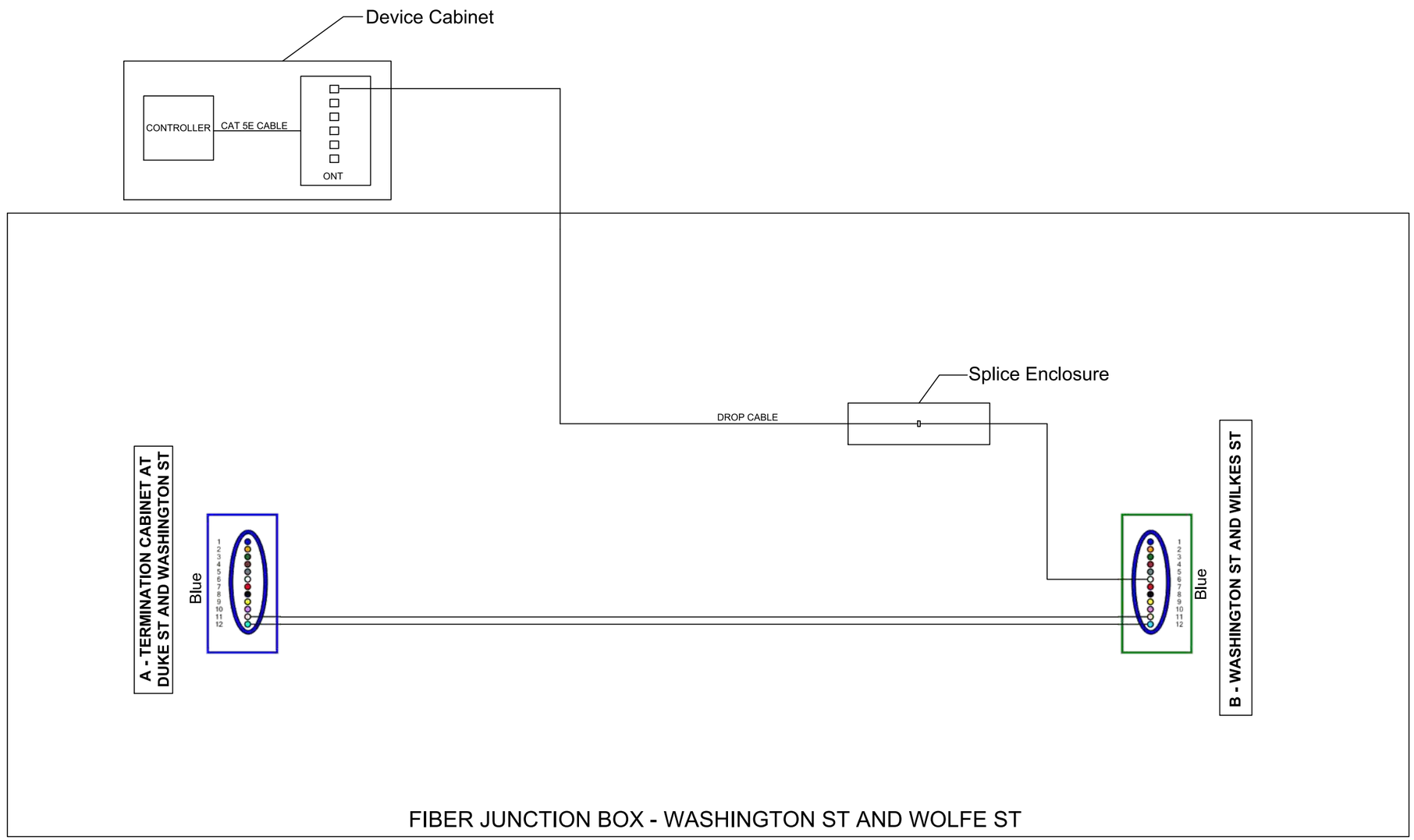
SPLICING DIAGRAM
WASHINGTON ST & WILKES ST

SHEET
8-23

SCALE N.T.S.



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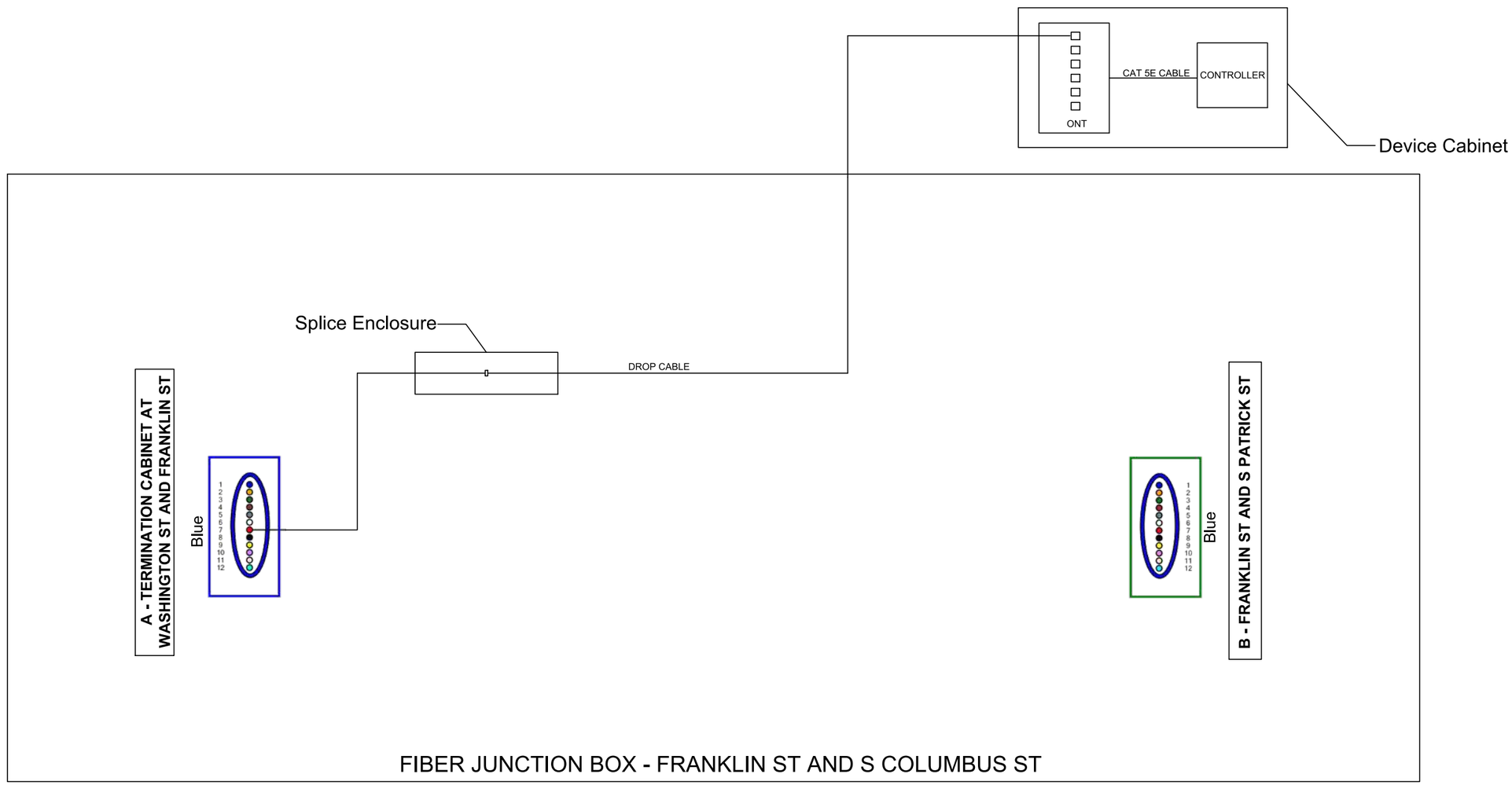
SPLICING DIAGRAM
WASHINGTON ST & WOLFE ST

SHEET
8-24
SCALE N.T.S.



LEGEND
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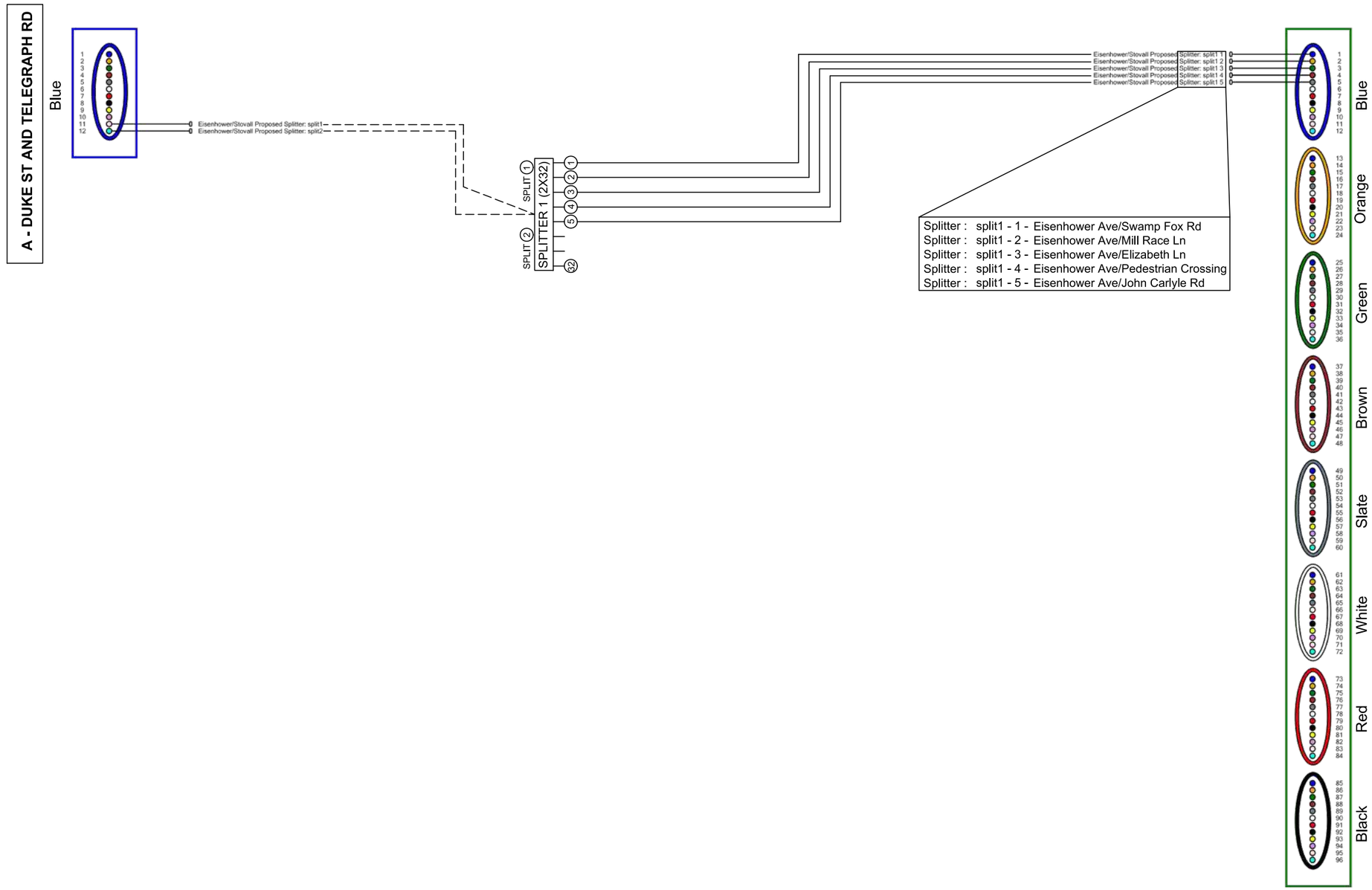
SPLICING DIAGRAM
FRANKLIN ST & S COLUMBUS ST

SHEET
8-25
SCALE N.T.S.



NOTE:
REFER SHEET 5-13 FOR ACTIVE NETWORK SPLICE DIAGRAM AT STOVALL ST & EISENHOWER AVE

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LEGEND
A - BFO 12 to Pullbox @ Duke & Telegraph
B - BFO 96 to Pullbox @ Eisenhower & Swamp Fox

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
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REVISIONS

DATE	BY	DESCRIPTION

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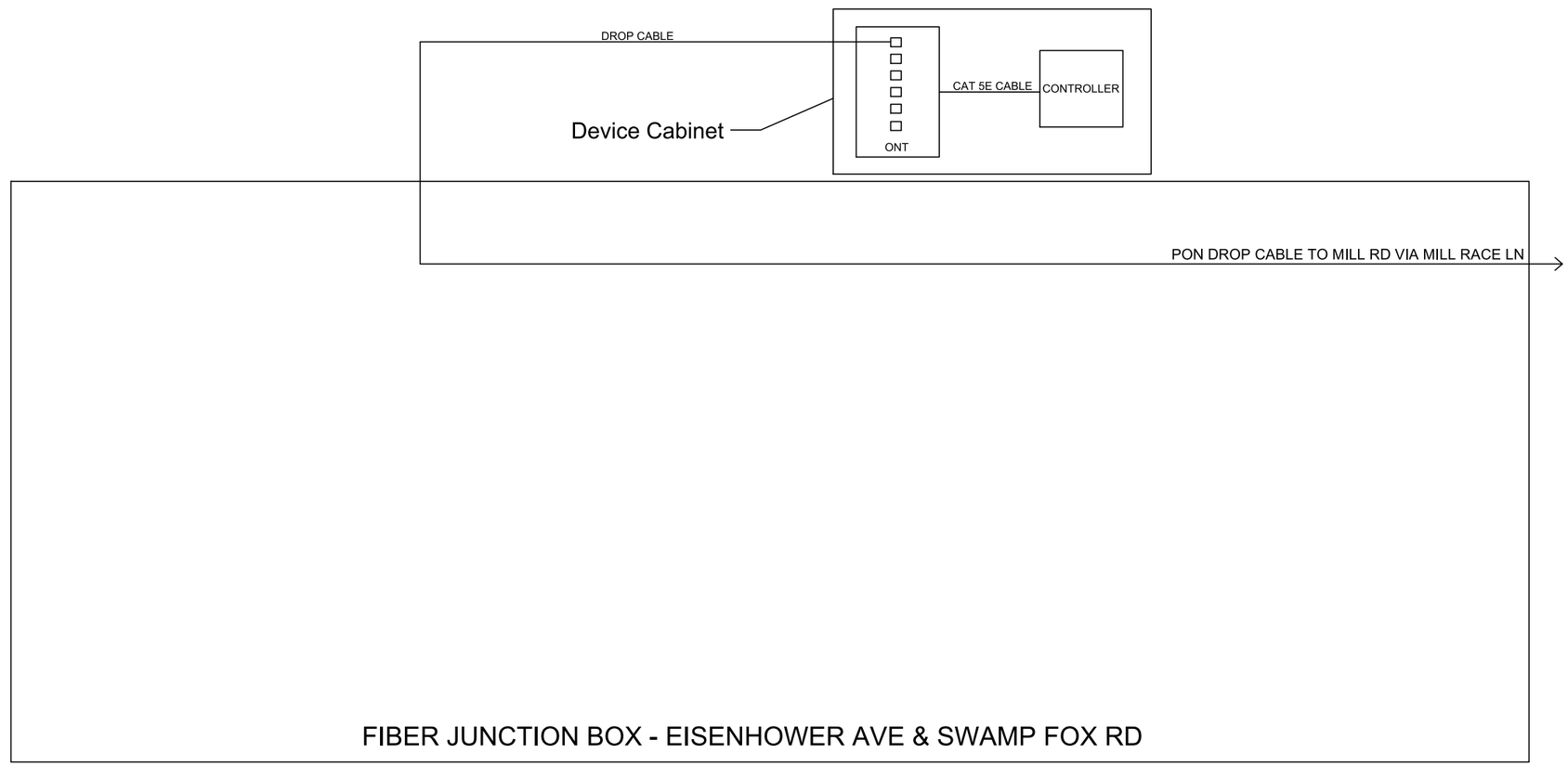
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
TERMINATION CABINET
STOVALL ST & EISENHOWER AVE

SHEET
8–26
SCALE N.T.S.



LEGEND
A - BFO 96 to Term Cab @ Stovall & Eisenhower
B - BFO 96 to Pullbox @ Eisenhower & Mill Race

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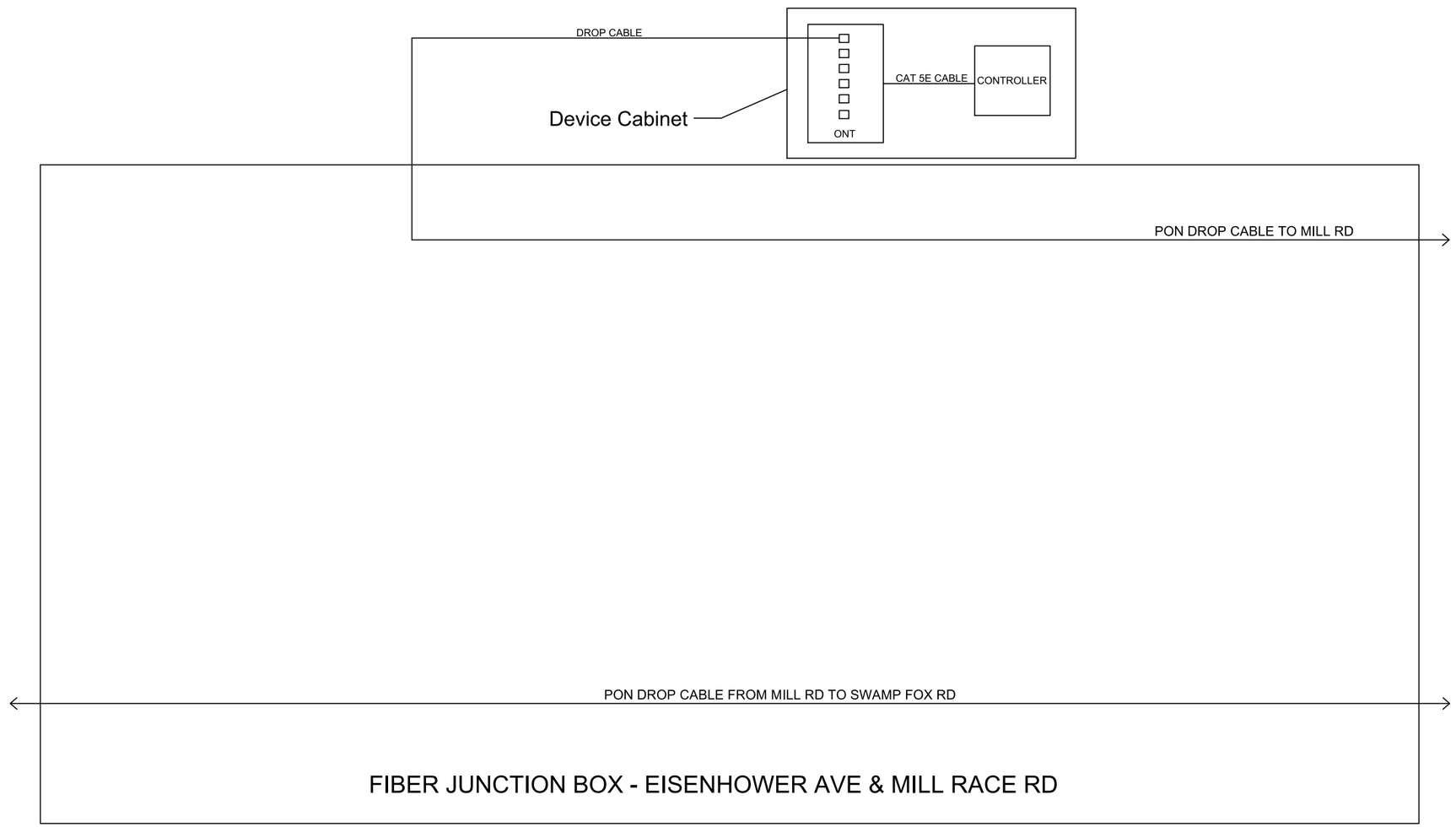
SPLICING DIAGRAM
EISENHOWER AVE & SWAMP FOX RD

SHEET
8-27
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Eisenhower & Swamp Fox
B - BFO 96 to Pullbox @ Eisenhower & Mill

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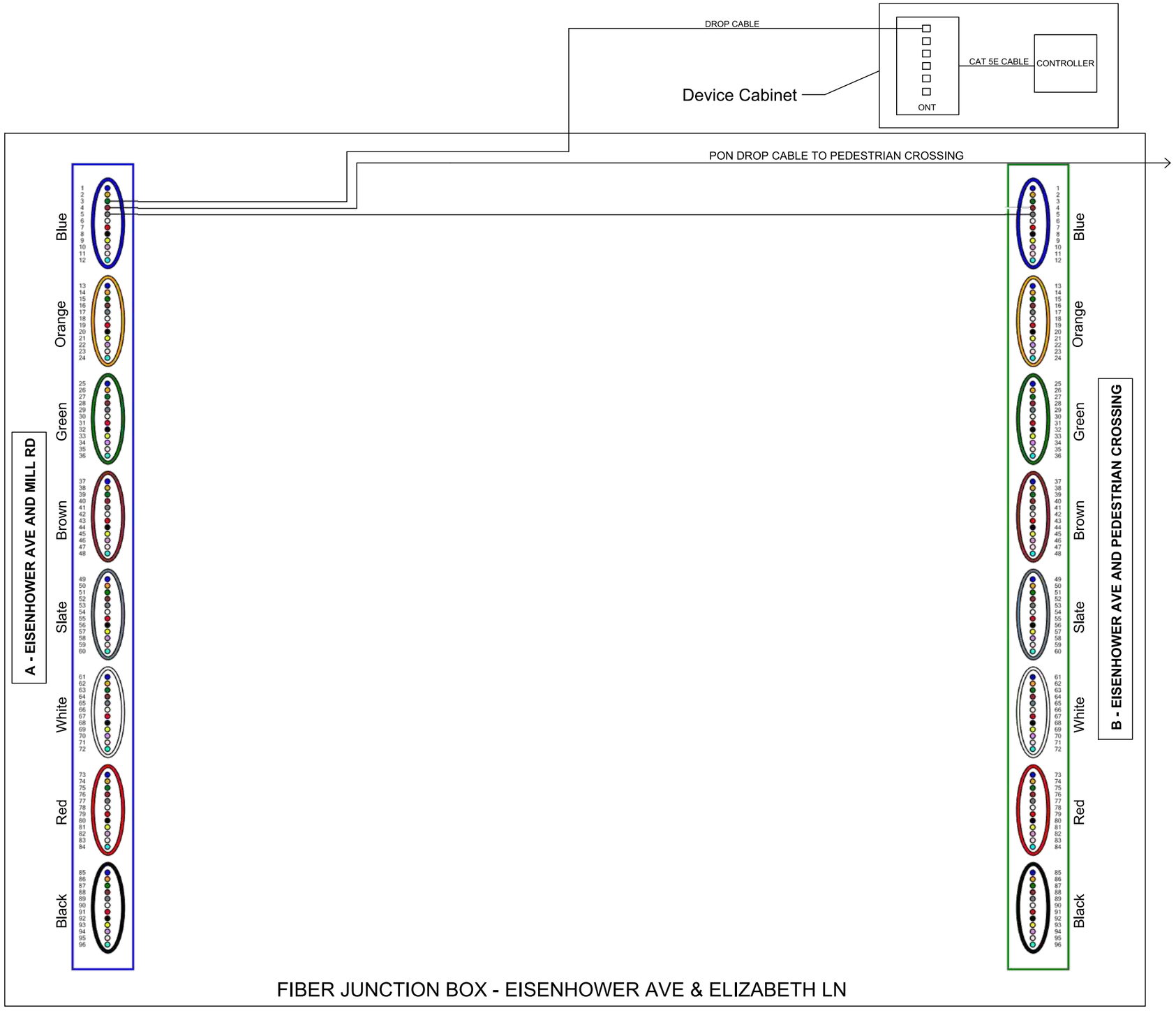
SPLICING DIAGRAM
EISENHOWER AVE & MILL RACE RD

SHEET
8-28
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Eisenhower & Mill
B - BFO 96 to Pullbox @ Eisenhower&PedestrianXing

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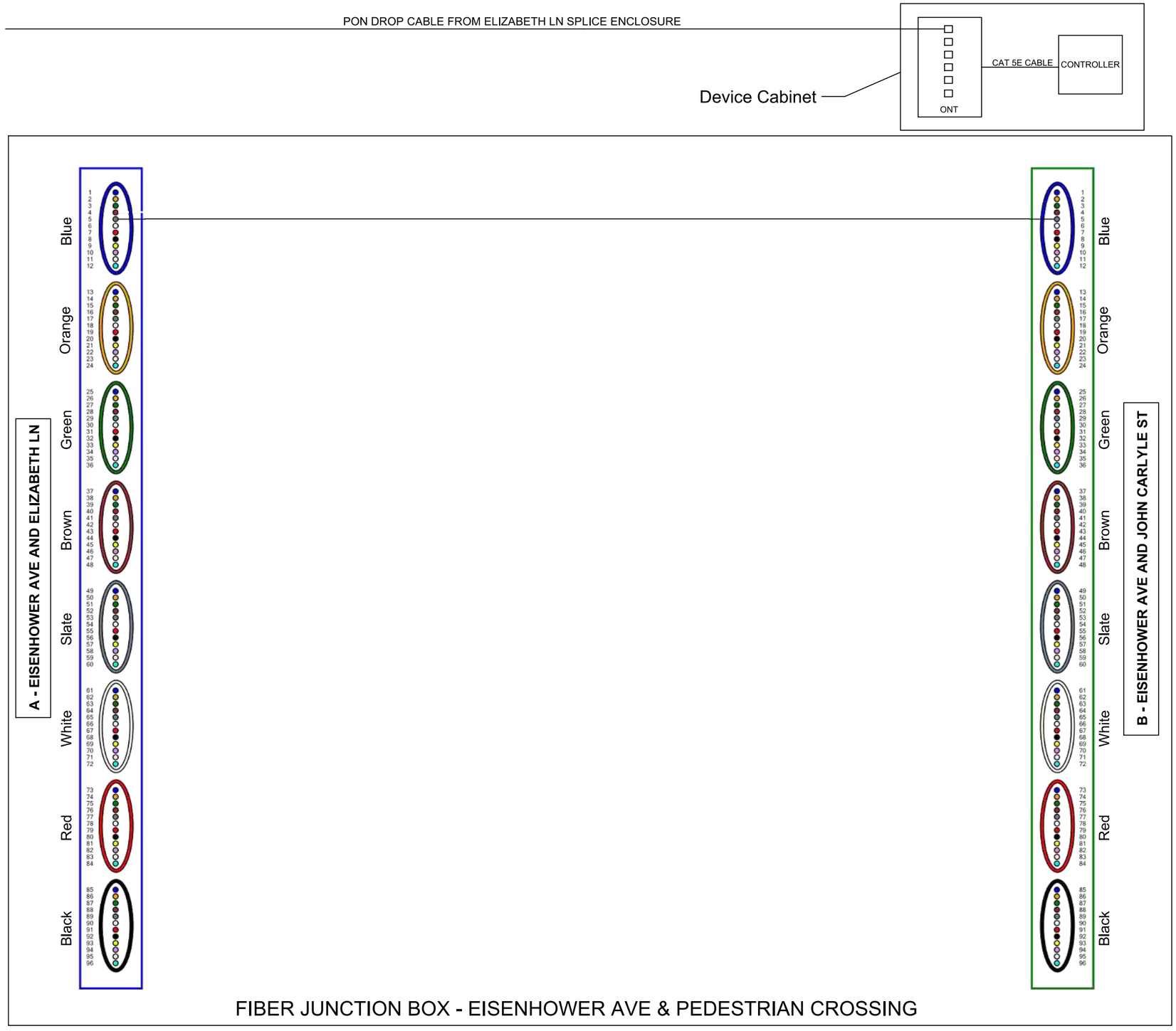
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
EISENHOWER AVE & ELIZABETH LN

SHEET
8-29

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Eisenhower & Elizabeth
B - BFO 96 to Pullbox @ Eisenhower & John Carlyle

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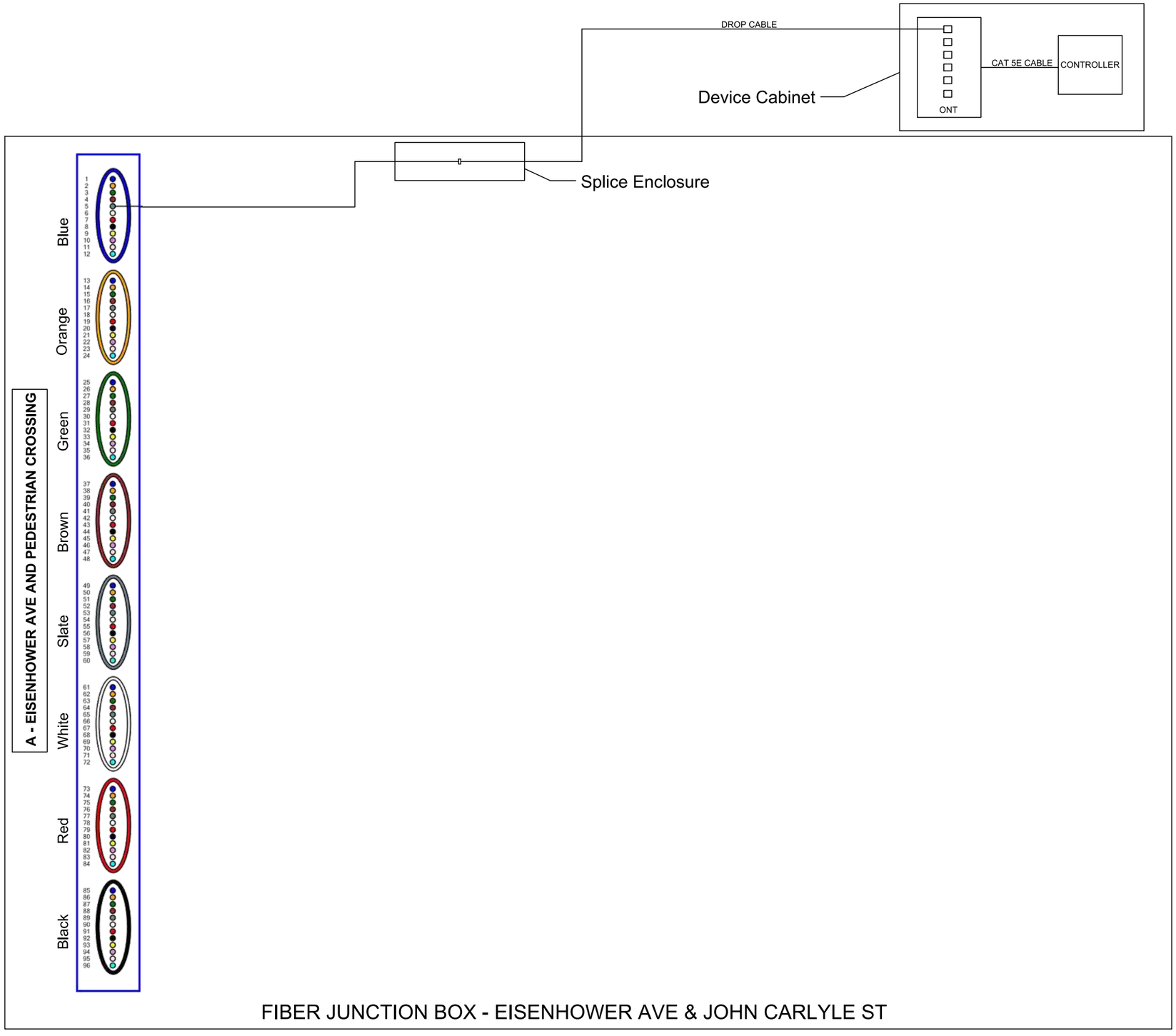
SPLICING DIAGRAM
EISENHOWER AVE & PEDESTRIAN CROSSING

SHEET
8-30

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Eisenhower&PedestrianXing

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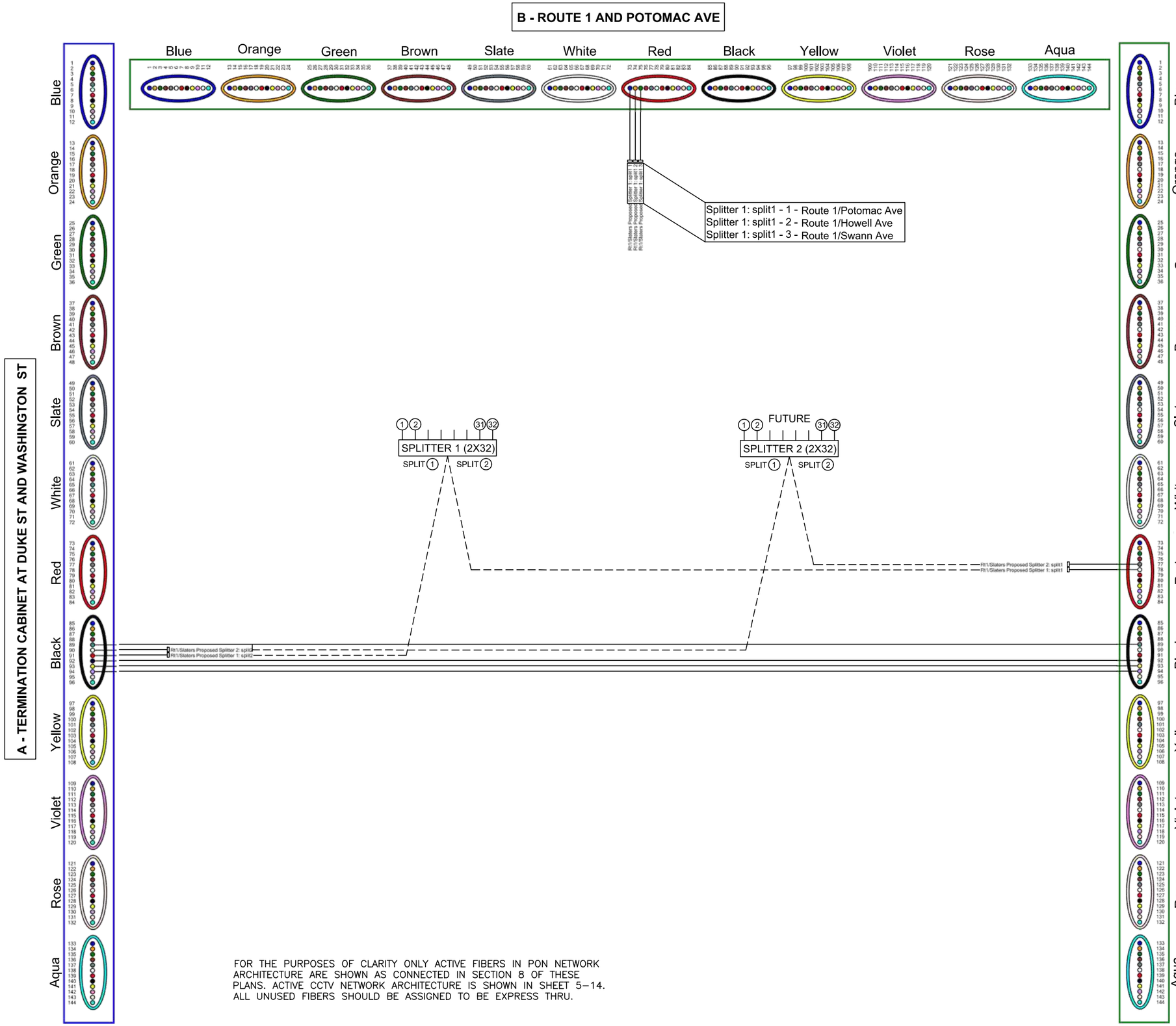
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
EISENHOWER AVE &
JOHN CARLYLE ST

SHEET
8-31

SCALE N.T.S.



NOTE:
REFER SHEET 5-14 FOR ACTIVE NETWORK SPLICE DIAGRAM AT ROUTE 1 & SLATERS LN

LEGEND

- A - BFO 144 to Term Cab @ Duke & Washington
- B - BFO 144 to Pullbox @ Potomac & RT1
- C - BFO 144 to Pullbox @ Wythe & N Patrick

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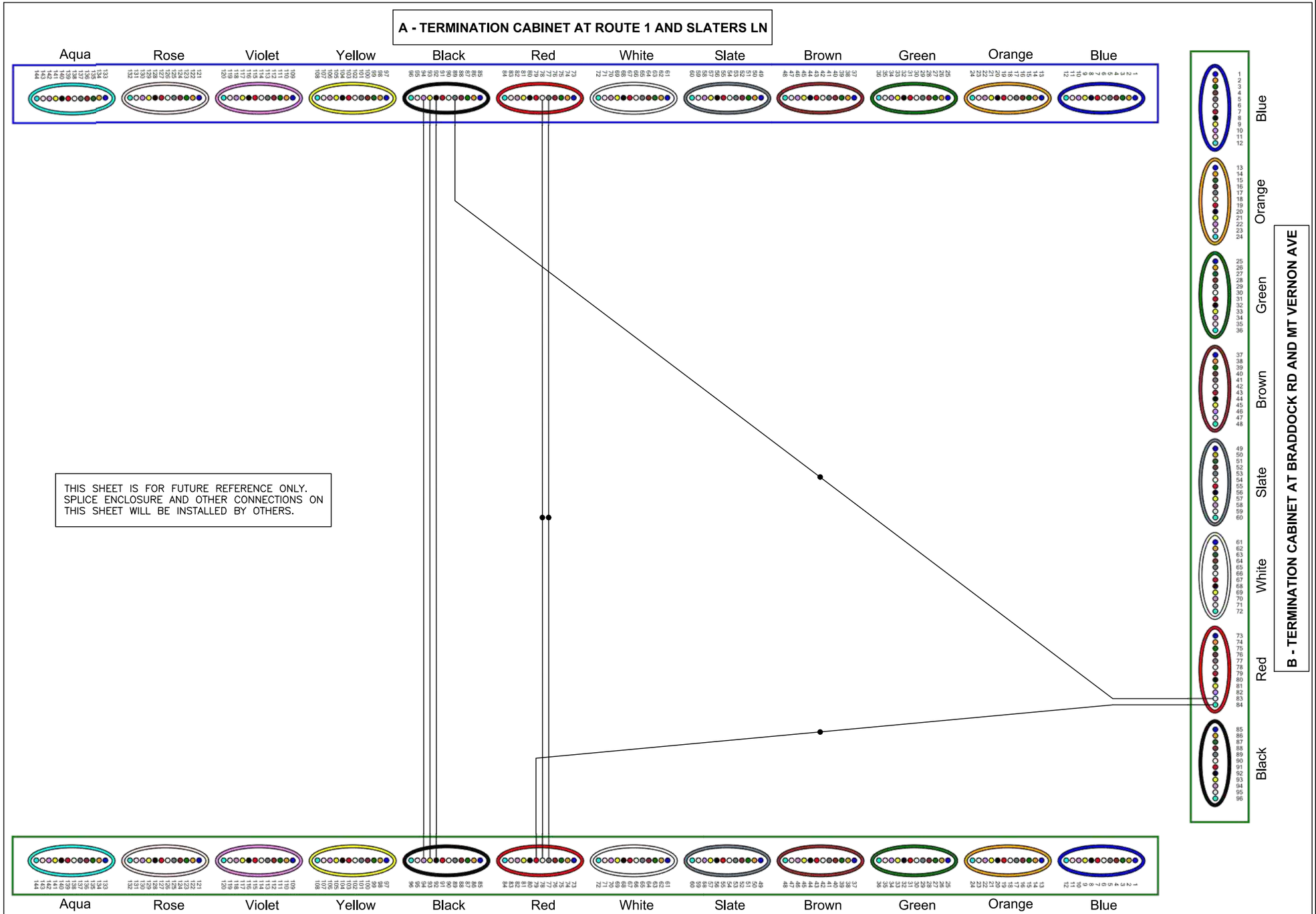
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM TERMINATION CABINET ROUTE 1 & SLATERS LN

SHEET
8–32

SCALE N.T.S.



FIBER JUNCTION BOX - WYTHE ST & N PATRICK ST

LEGEND

- A - BFO 144 to Term Cab @ RT1 & Slaters
- to Term Cab @ Braddock & Mt Vernon
- B - BFO 144 to Term Cab @ Duke & Diagnal

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SPLICING DIAGRAM
WYTHE ST & N PATRICK ST

SHEET
8-33

SCALE N.T.S.

THIS SHEET IS FOR FUTURE REFERENCE ONLY. CONNECTIONS ON THIS SHEET WILL BE INSTALLED BY OTHERS.

LEGEND

- to Pullbox @ Wythe & N Patrick

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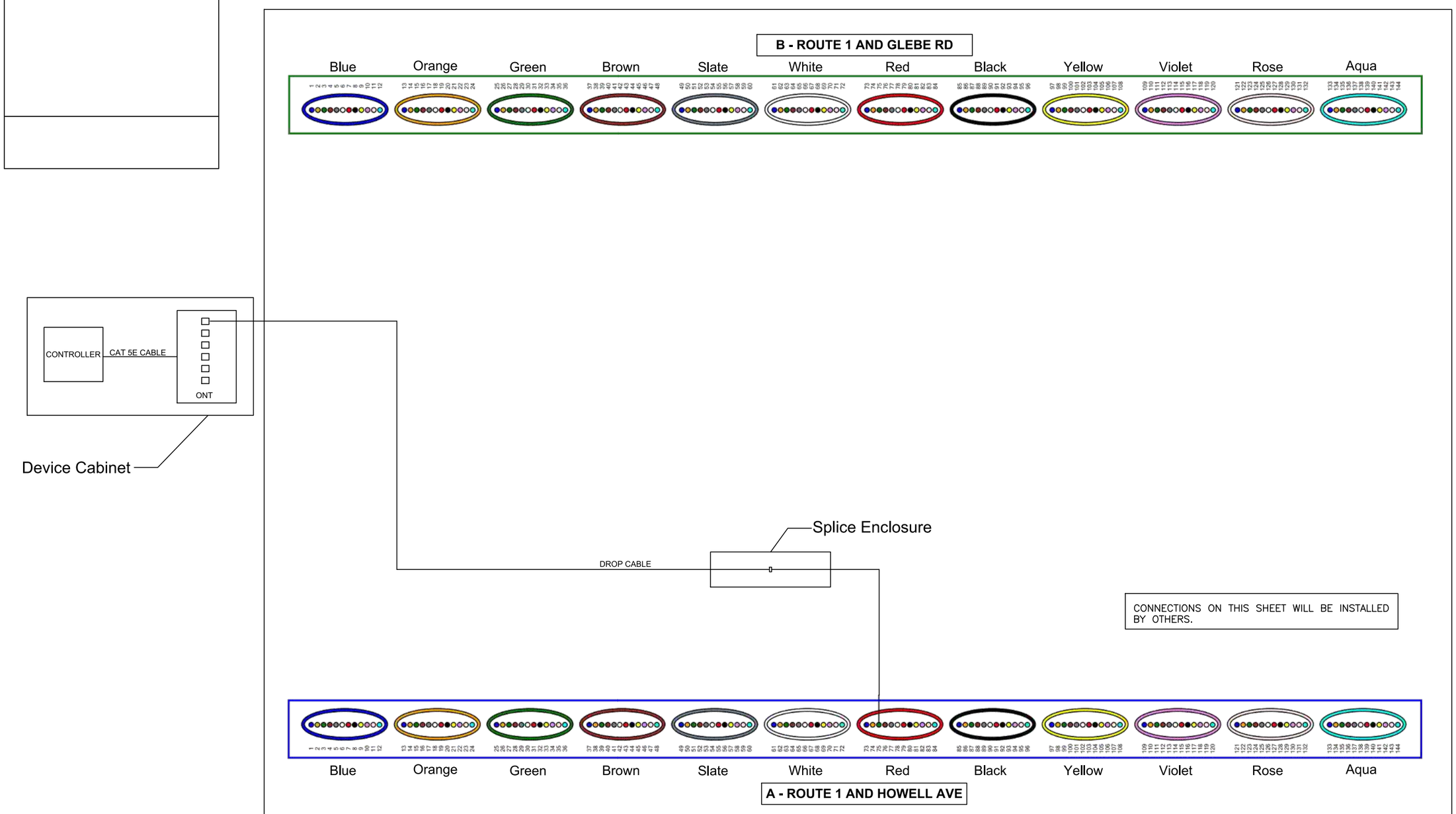
SPLICING DIAGRAM
TERMINATION CABINET
BRADDOCK RD & MT VERNON ST

SHEET
8-34

SCALE N.T.S.



FIBER JUNCTION BOX - ROUTE 1 AND SWANN AVE

LEGEND
A - BFO 144 to Pullbox @ E Howell & RT1
B - BFO 144 to Pullbox @ RT1 & Potomac Yards

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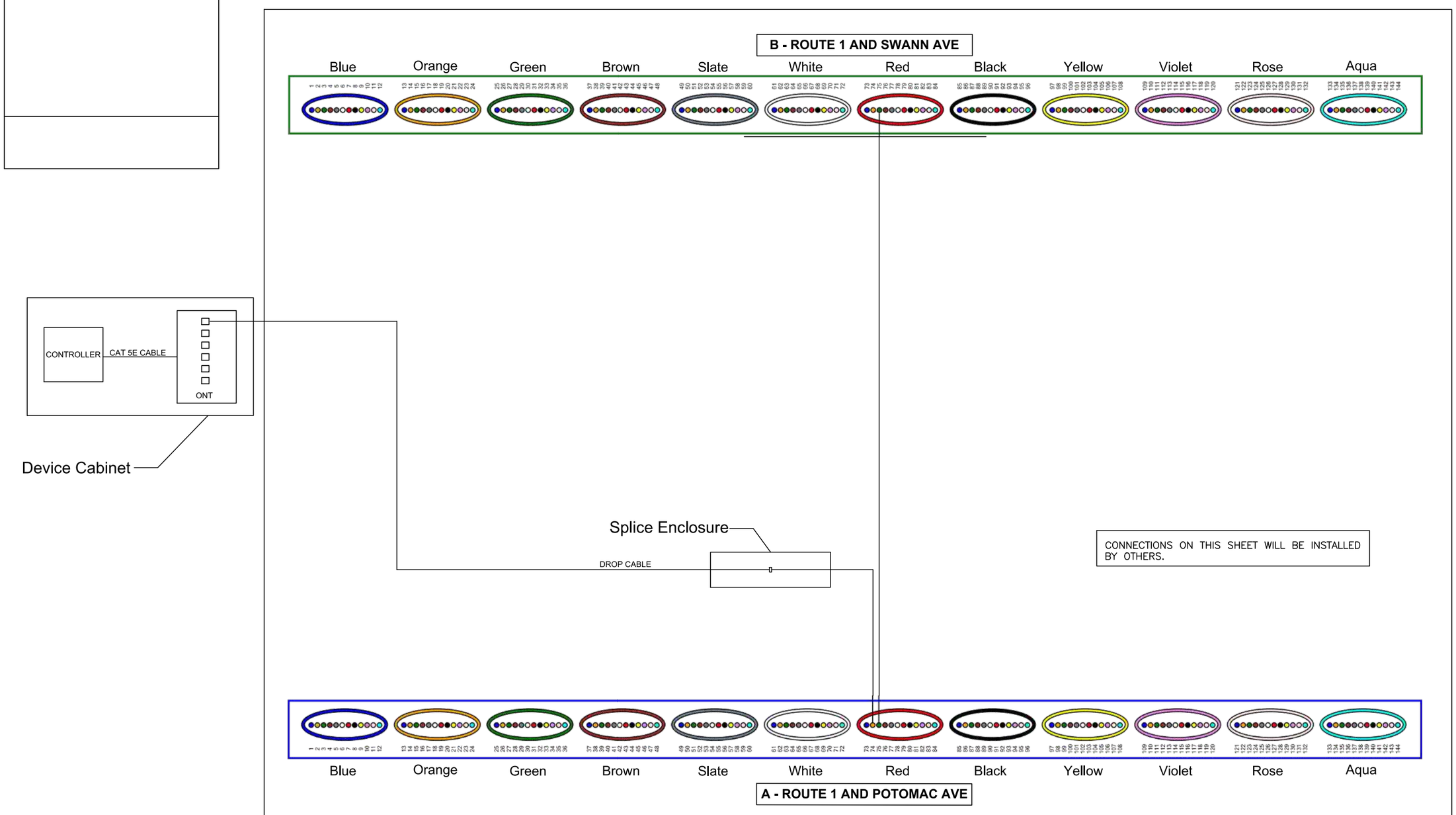
SPLICING DIAGRAM
ROUTE 1 & SWANN AVE

SHEET
8-35
SCALE N.T.S.



FIBER JUNCTION BOX - ROUTE 1 AND HOWELL AVE

LEGEND
A - BFO 144 to Pullbox @ Potomac & RT1
B - BFO 144 to Pullbox @ RT1 and Swann

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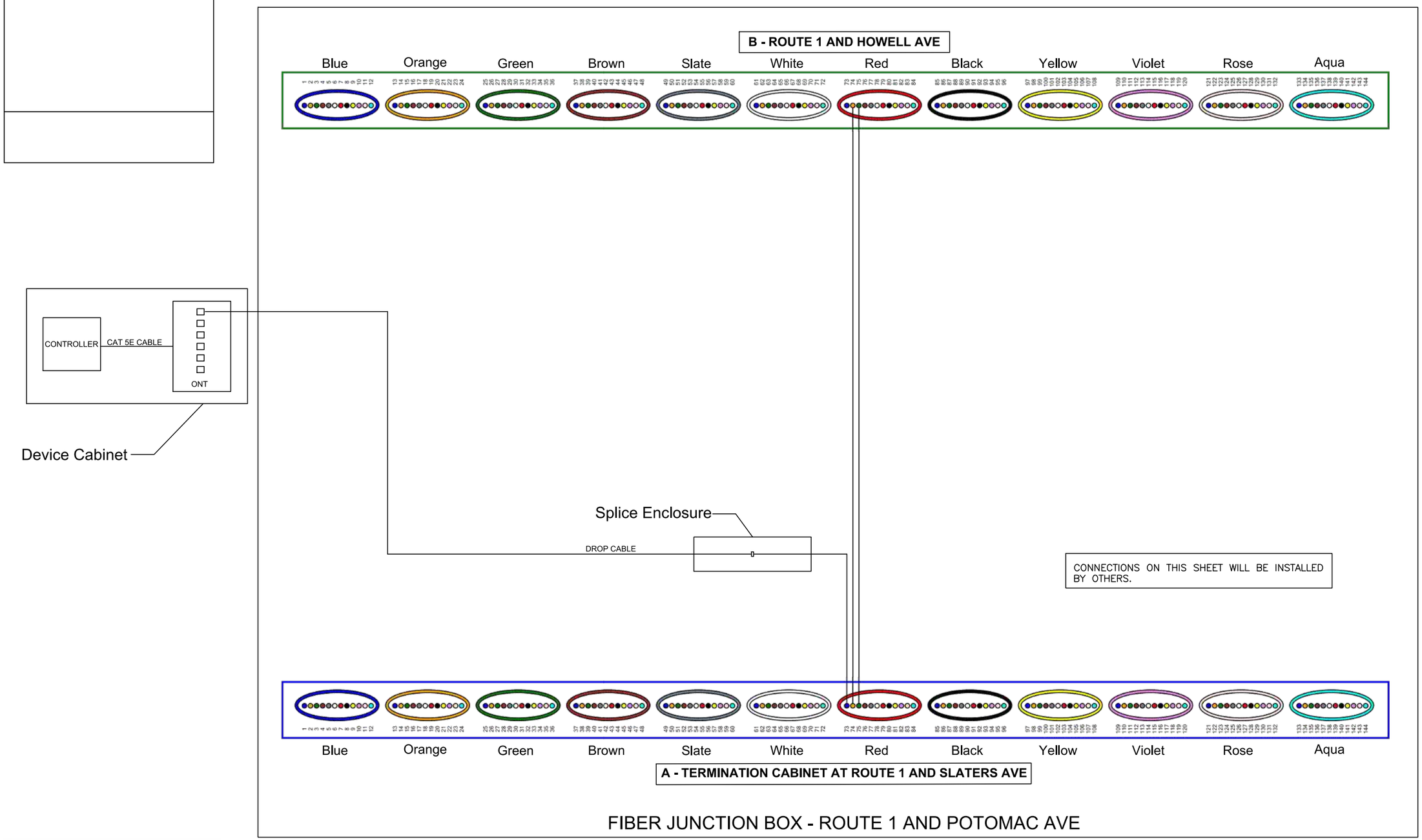
SPLICING DIAGRAM
ROUTE 1 & HOWELL AVE

SHEET
8-36
SCALE N.T.S.



FIBER JUNCTION BOX - ROUTE 1 AND POTOMAC AVE

LEGEND
A - BFO 144 to Term Cab @ RT1 & Slaters
B - BFO 144 to Pullbox @ E Howell & RT1

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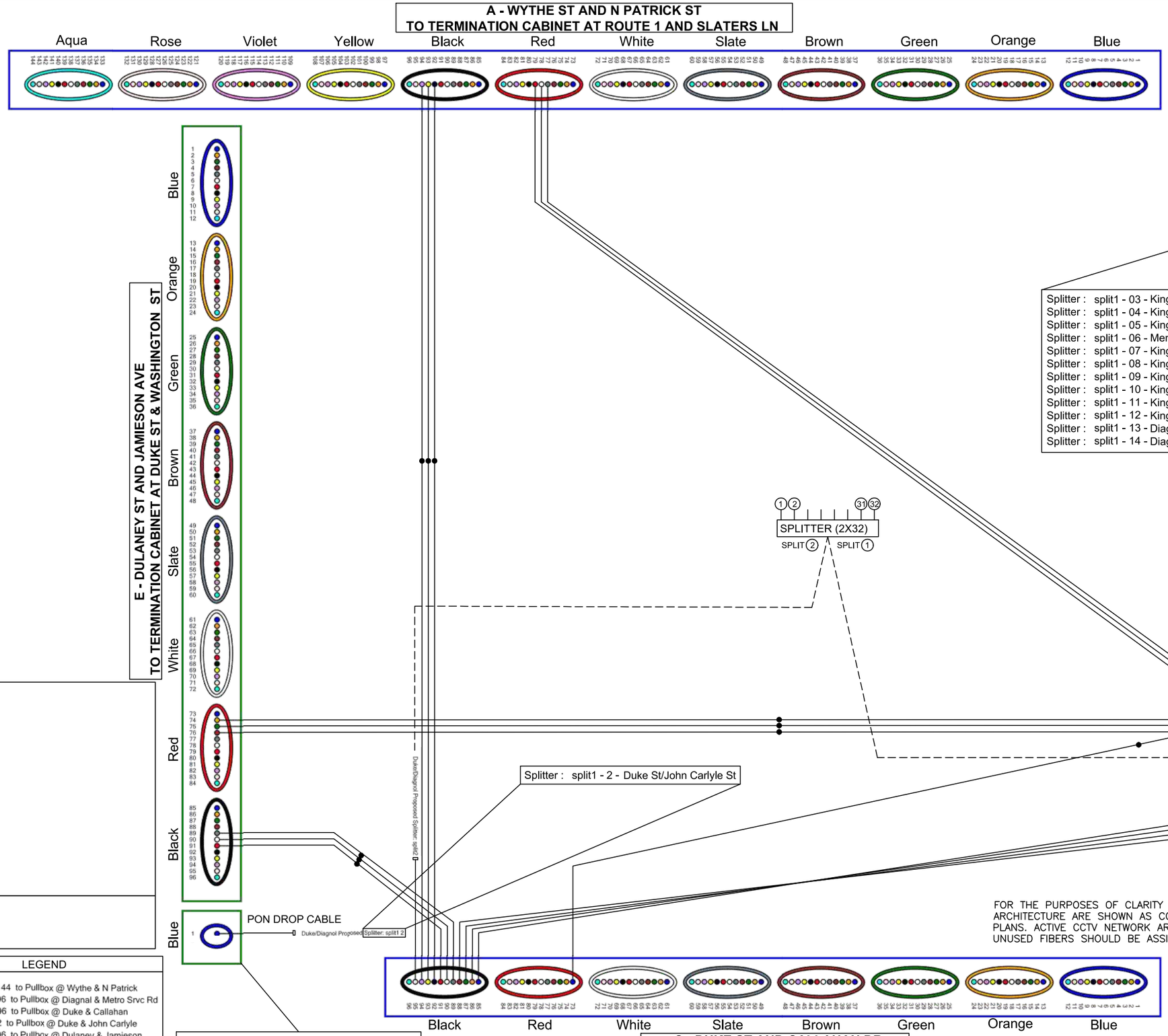
SPLICING DIAGRAM
ROUTE 1 & POTOMAC AVE

SHEET
8-37
SCALE N.T.S.



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LEGEND

- A - BFO 144 to Pullbox @ Wythe & N Patrick
- B - BFO 96 to Pullbox @ Diagnal & Metro Srvc Rd
- C - BFO 96 to Pullbox @ Duke & Callahan
- D - BFO 2 to Pullbox @ Duke & John Carlyle
- E - BFO 96 to Pullbox @ Dulaney & Jamieson

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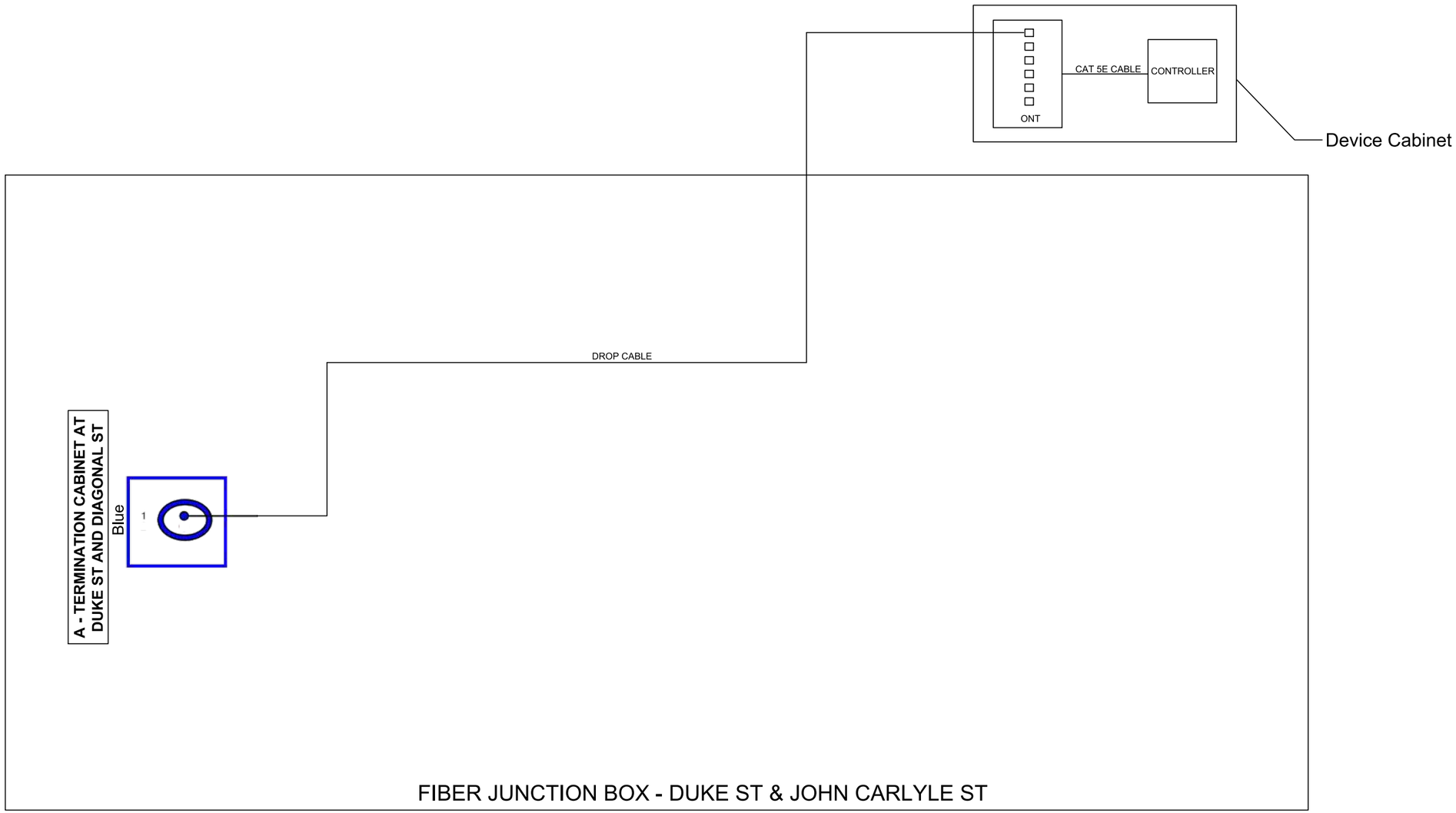
SPLICING DIAGRAM
TERMINATION CABINET
DUKE ST & DIGONAL ST

SHEET
8-38

SCALE N.T.S.



LEGEND
A - BFO 2 to Term Cab @ Duke & Diagnal

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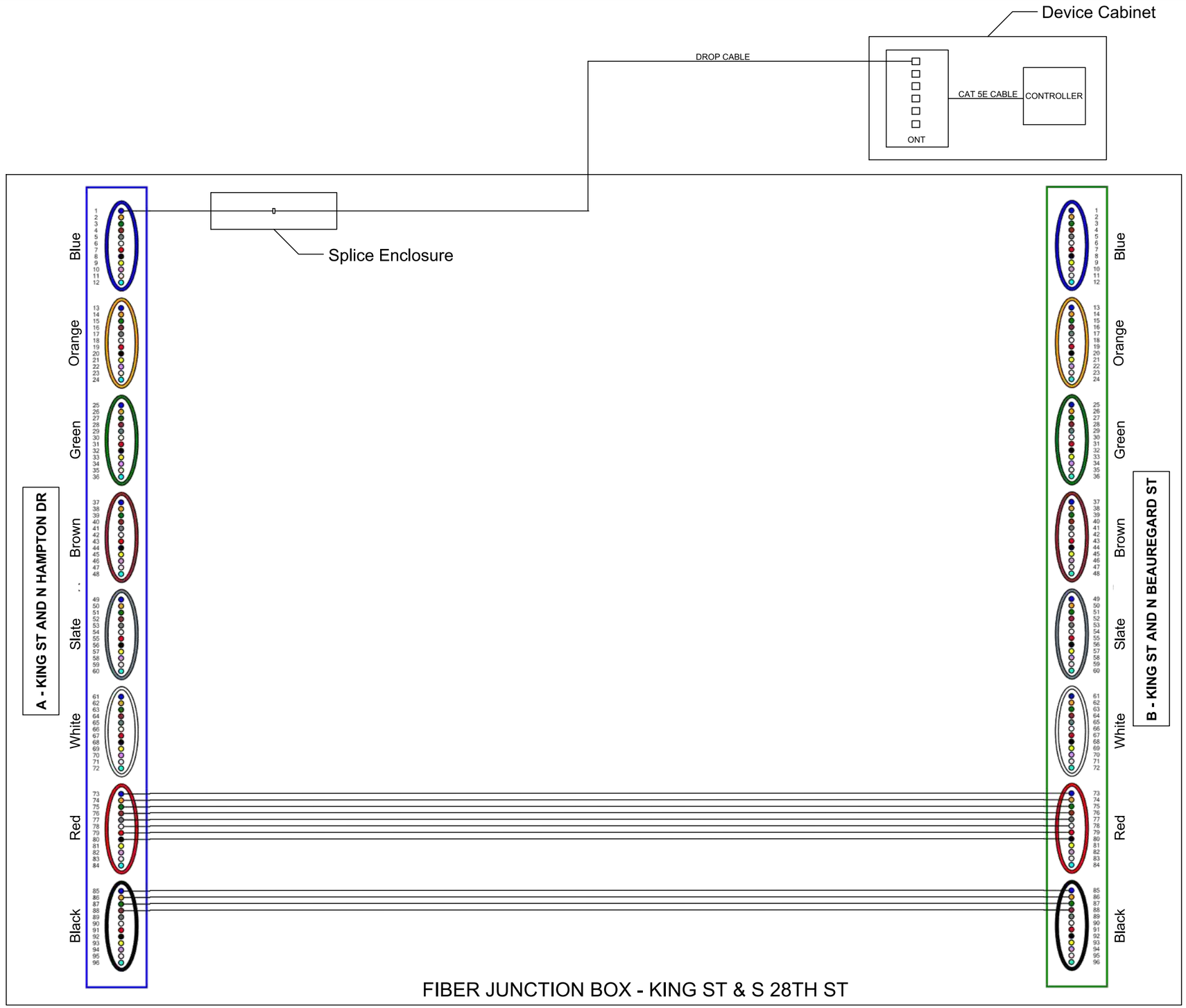
SPLICING DIAGRAM
DUKE ST & JOHN CARLYLE ST

SHEET
8-39
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & N Hampton
- B - BFO 96 to Pullbox @ King & N Beauregard

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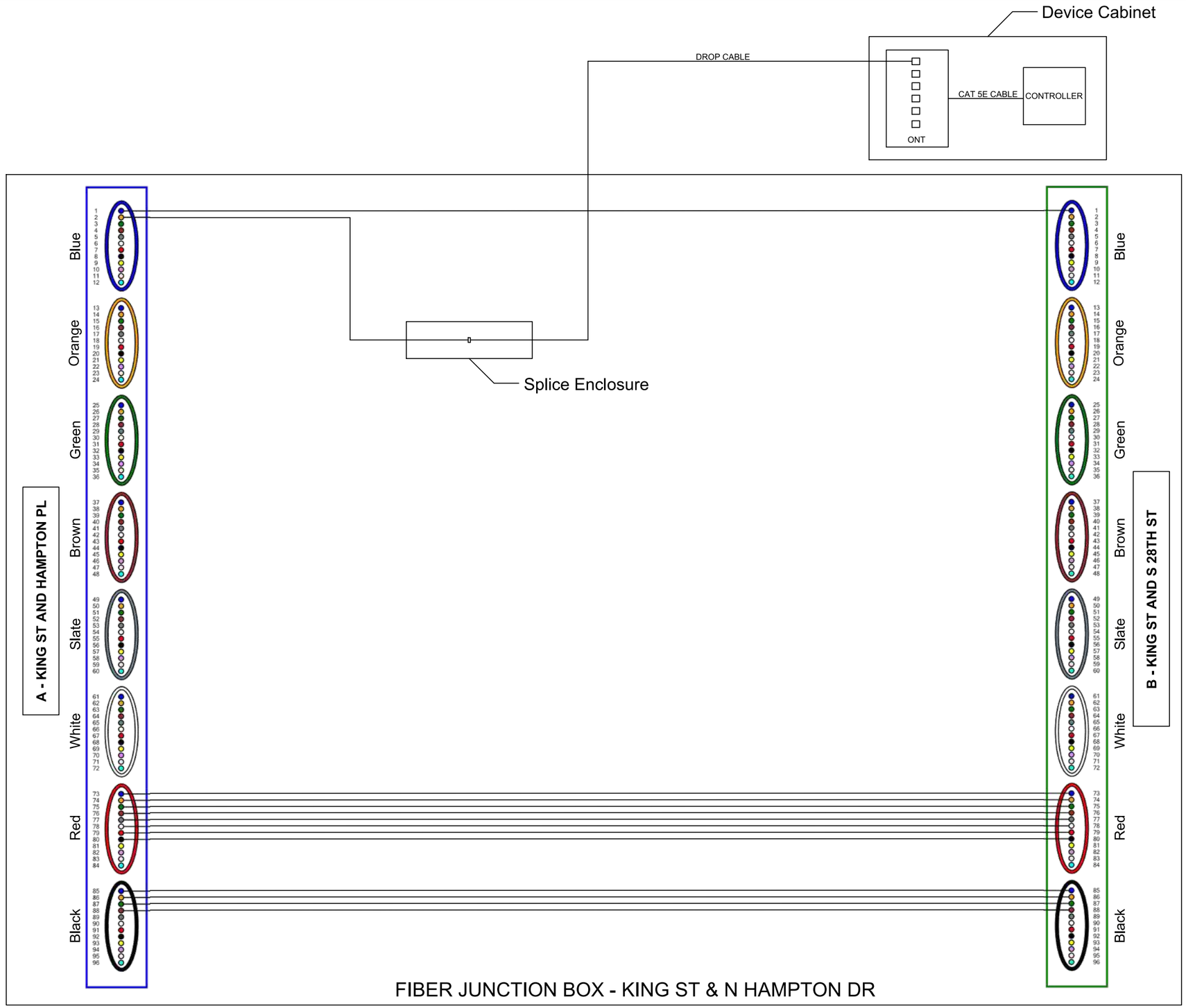
SPLICING DIAGRAM
KING ST & S 28TH ST

SHEET
8-40

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & Hampton
- B - BFO 96 to Pullbox @ King & S 28th

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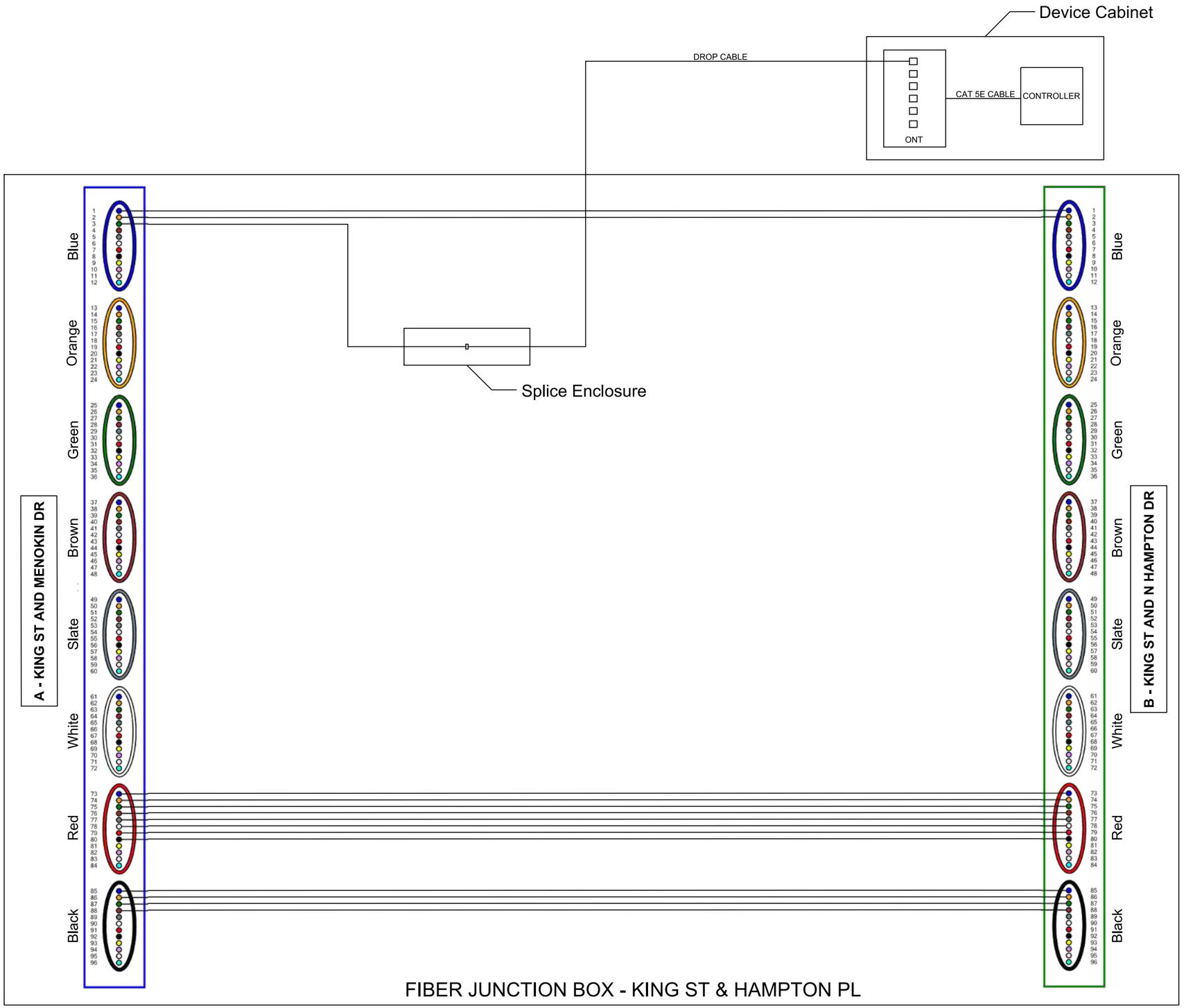
SPLICING DIAGRAM
KING ST & N HAMPTON DR

SHEET
8-41

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & Menokin
- B - BFO 96 to Pullbox @ King & N Hampton

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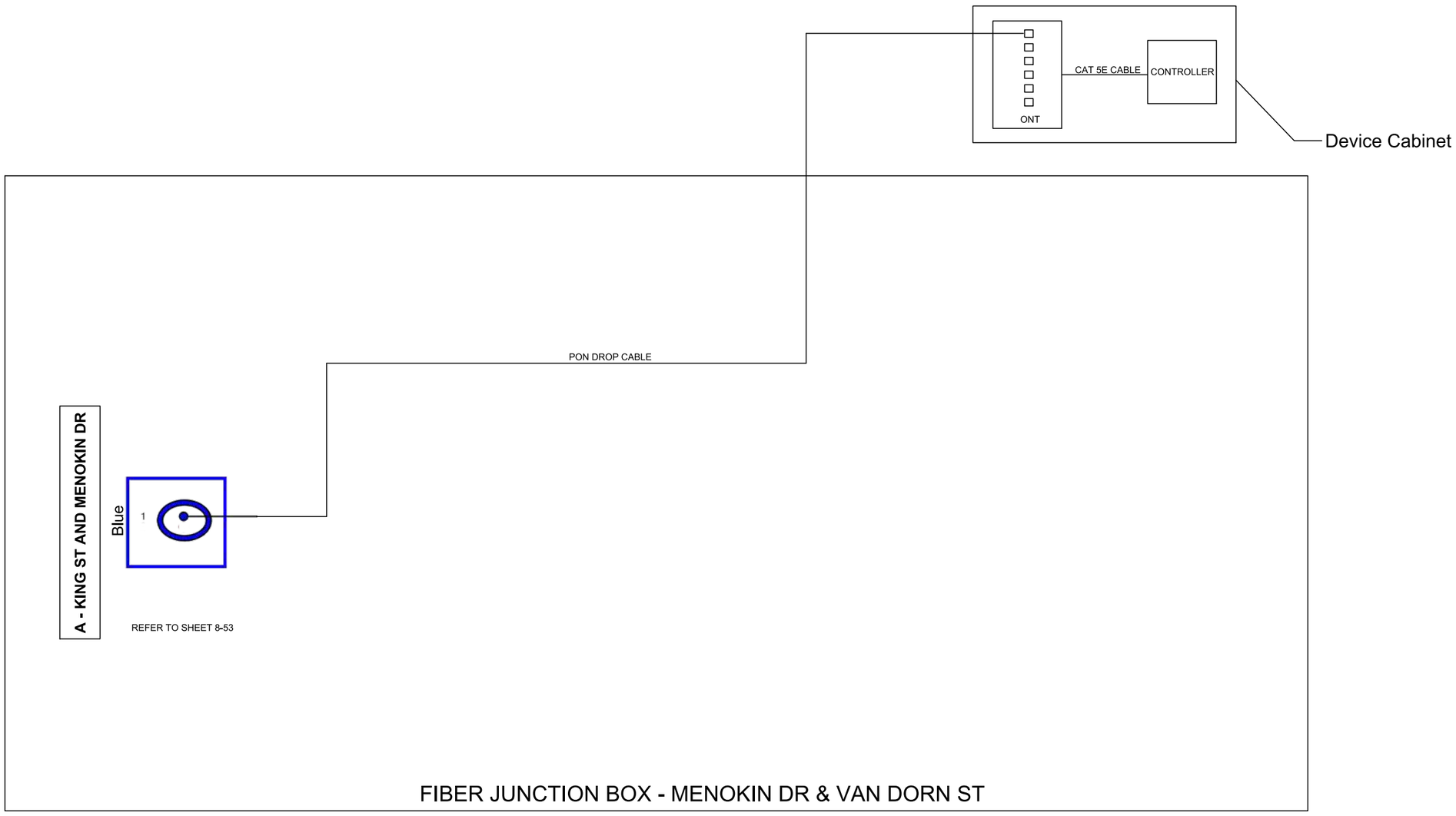
SPLICING DIAGRAM
KING ST & HAMPTON ST

SHEET
8-42

SCALE N.T.S.



LEGEND
A - BFO 2 to Pullbox @ King & Menokin

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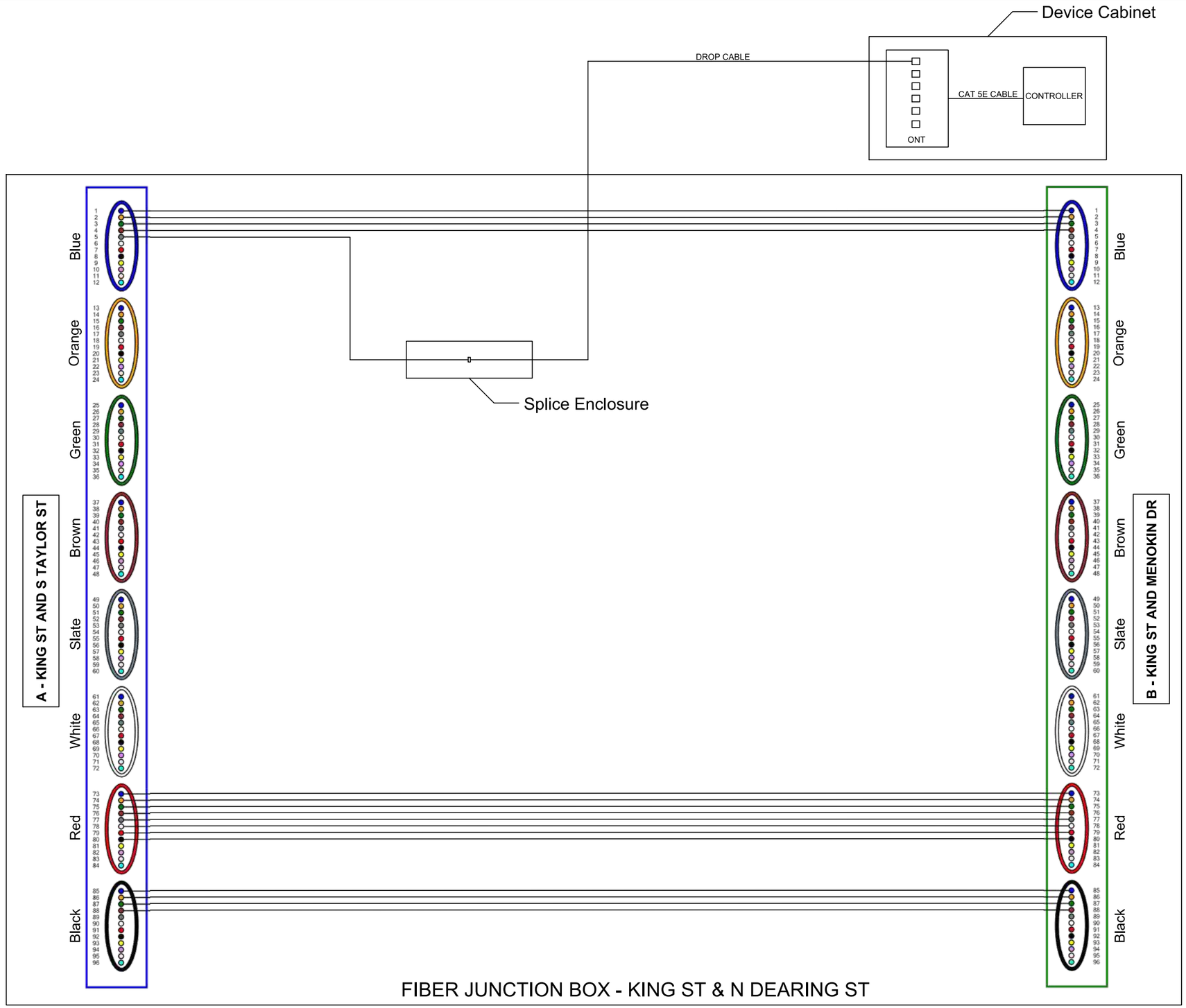
SPLICING DIAGRAM
MENOKIN DR & VAN DORN ST

SHEET
8-43

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ King & S Taylor
B - BFO 96 to Pullbox @ King & Menokin

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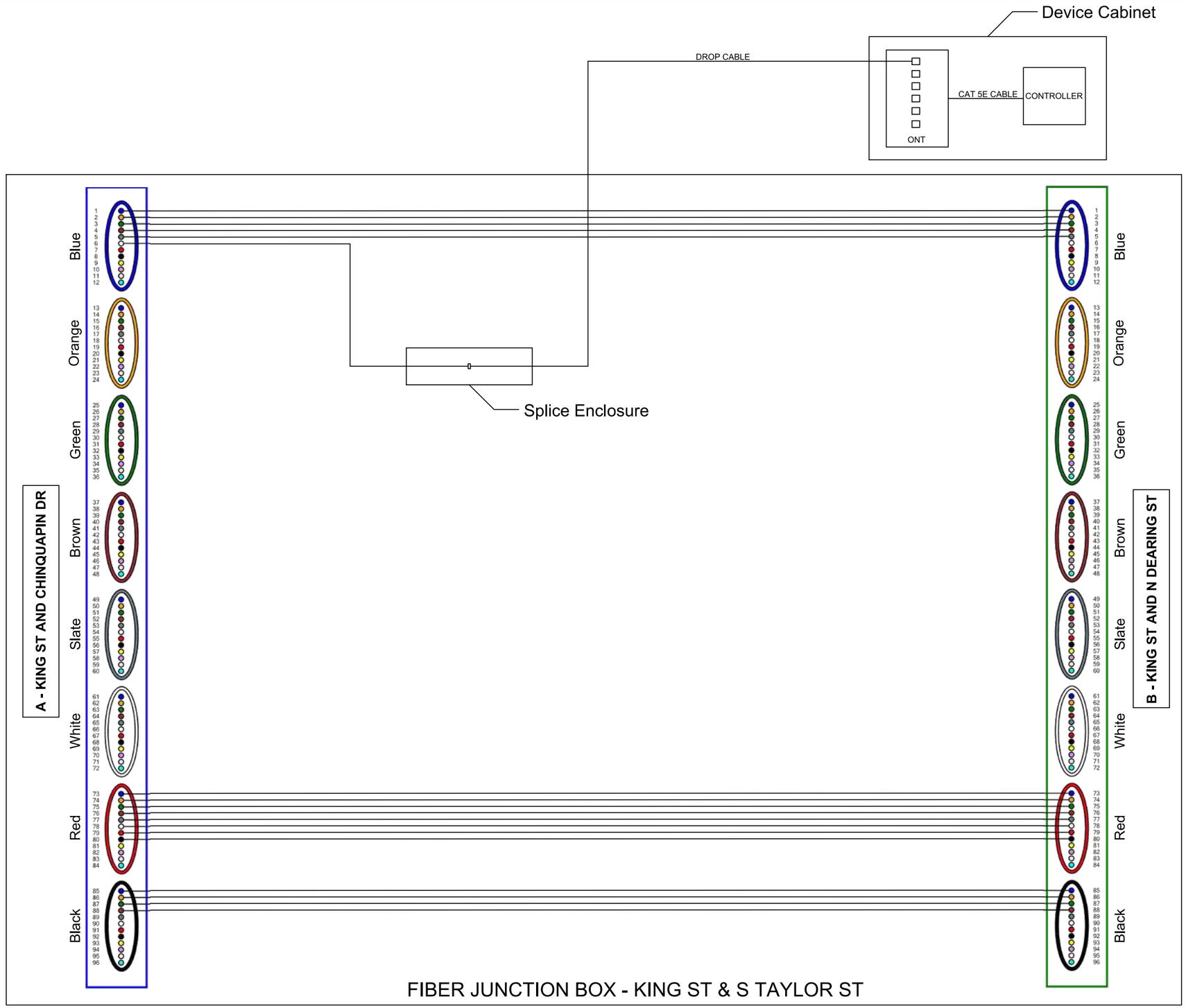
SPLICING DIAGRAM
KING ST & N DEARING ST

SHEET
8-44
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & Chinquapin
- B - BFO 96 to Pullbox @ King & N Dearing

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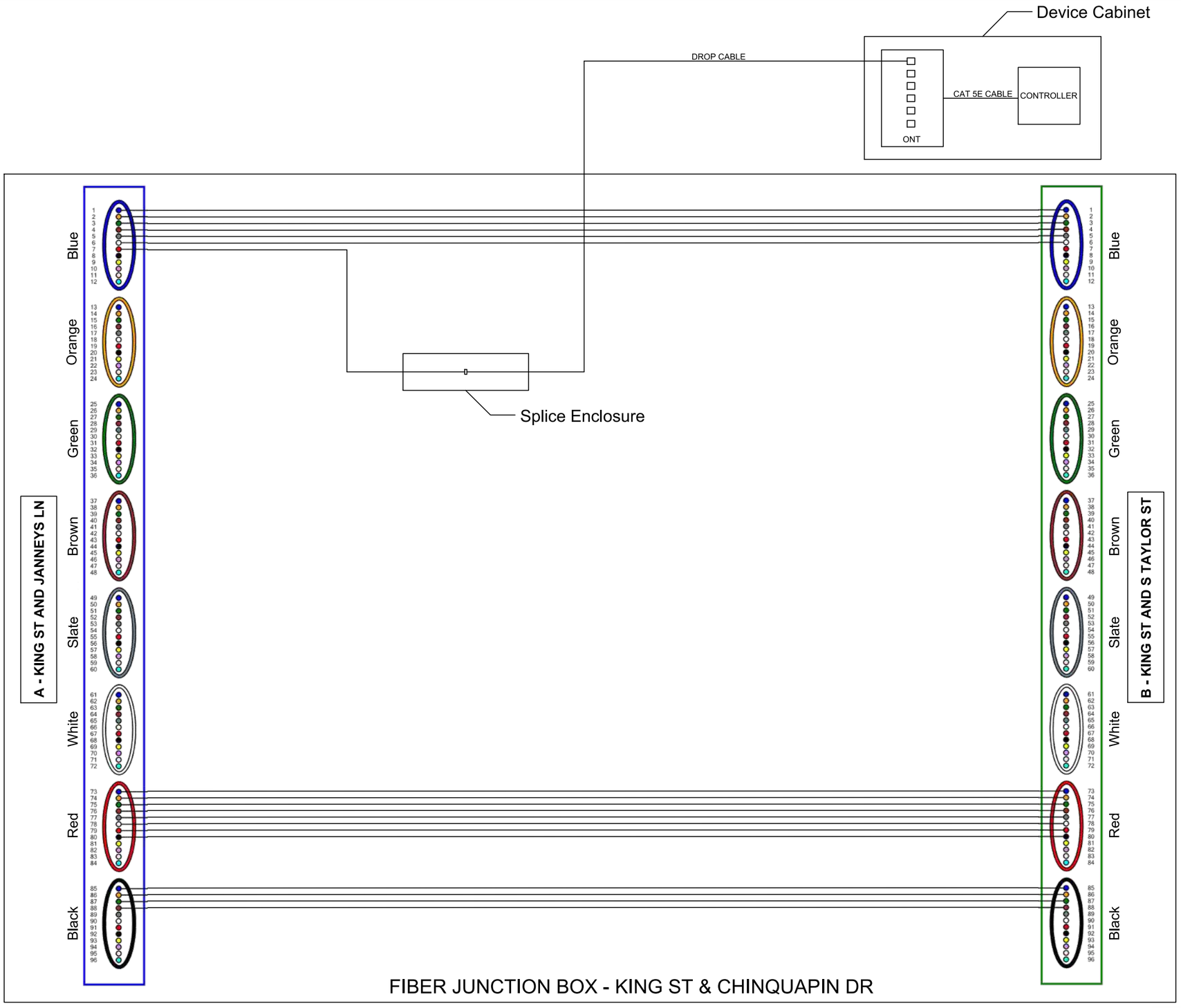
SPLICING DIAGRAM
KING ST & S TAYLOR ST

SHEET
8-45

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & Janneys
- B - BFO 96 to Pullbox @ King & S Taylor

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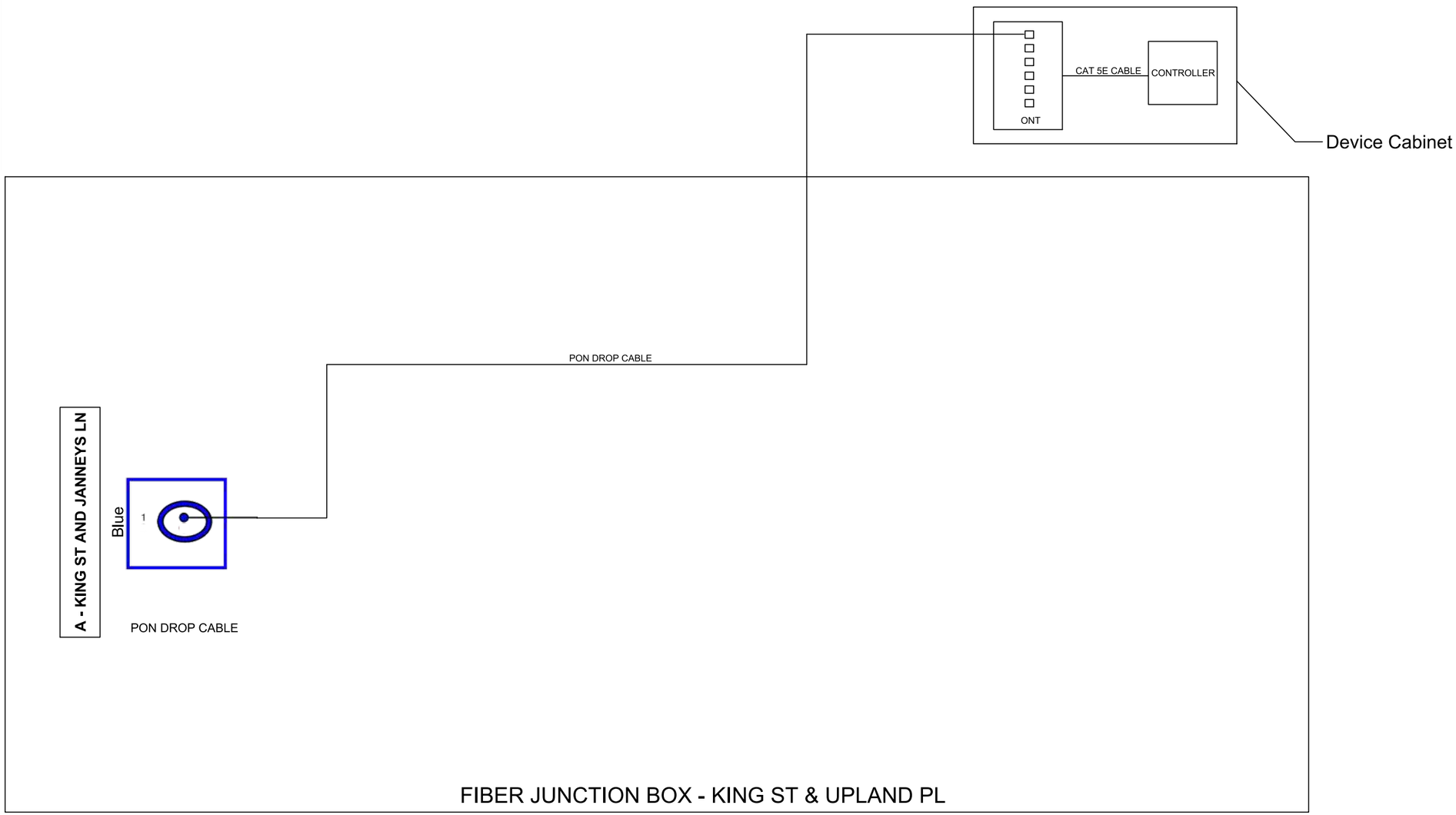
SPLICING DIAGRAM
KING ST & CHINQUAPIN DR

SHEET
8-46

SCALE N.T.S.



LEGEND
A - BFO 2 to Pullbox @ King & Janneys

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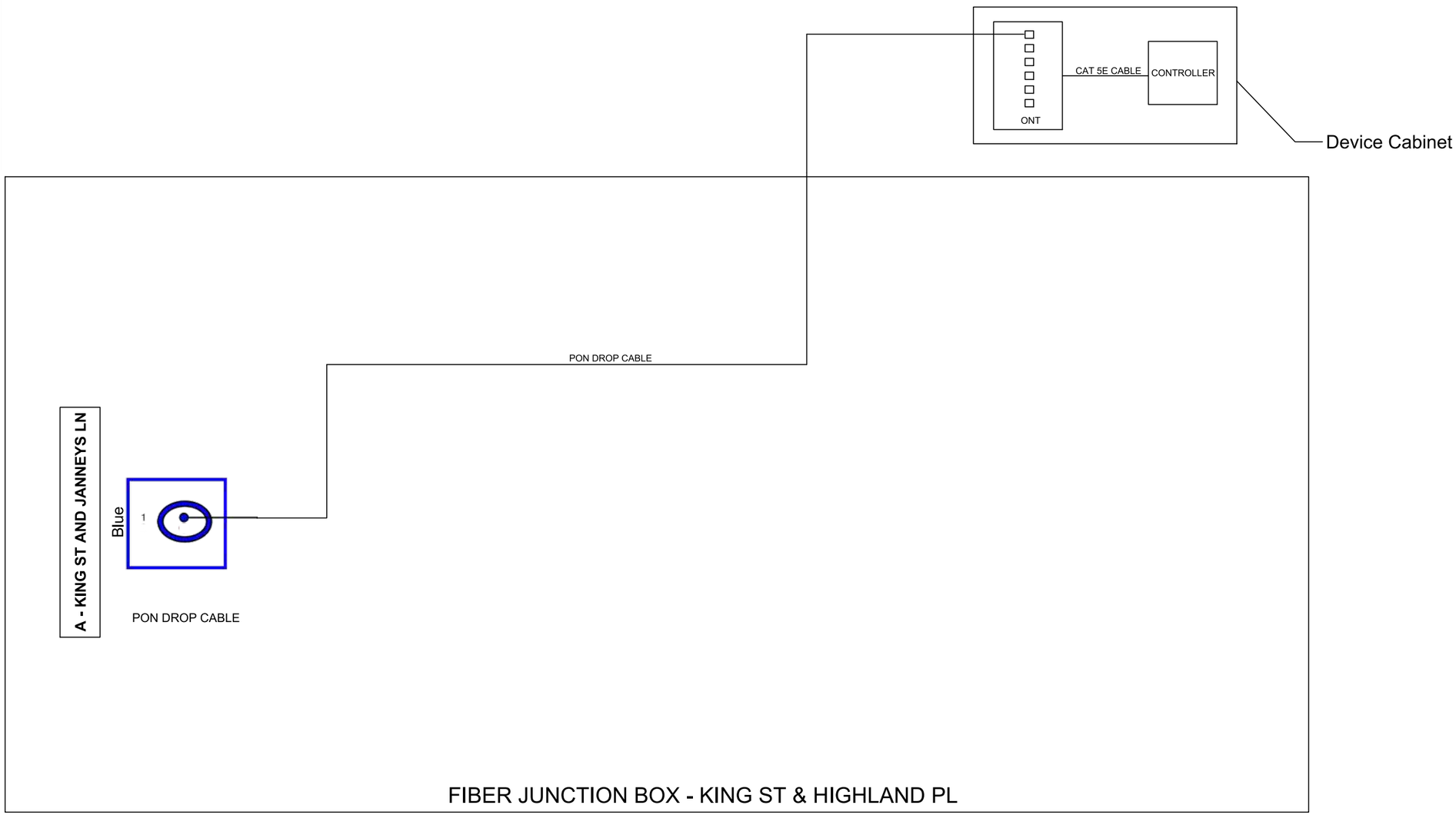
SPLICING DIAGRAM
KING ST & UPLAND PL

SHEET
8-47
SCALE N.T.S.



LEGEND
A - BFO 2 to Pullbox @ King & Janneys

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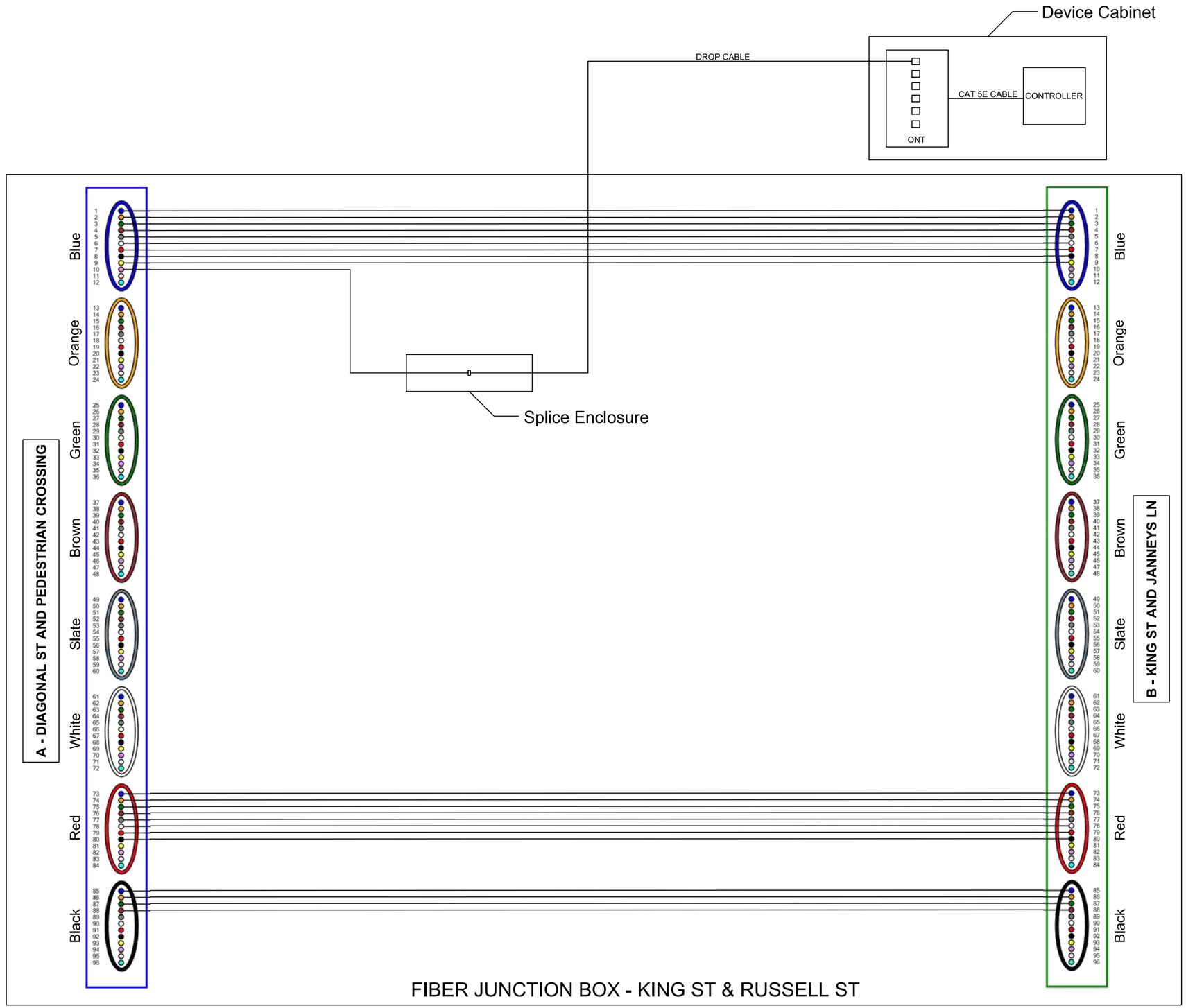
SPLICING DIAGRAM
KING ST & HIGHLAND PL

SHEET
8-48
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Diagnal & Pedestrian Xing
- B - BFO 96 to Pullbox @ King & Janneys

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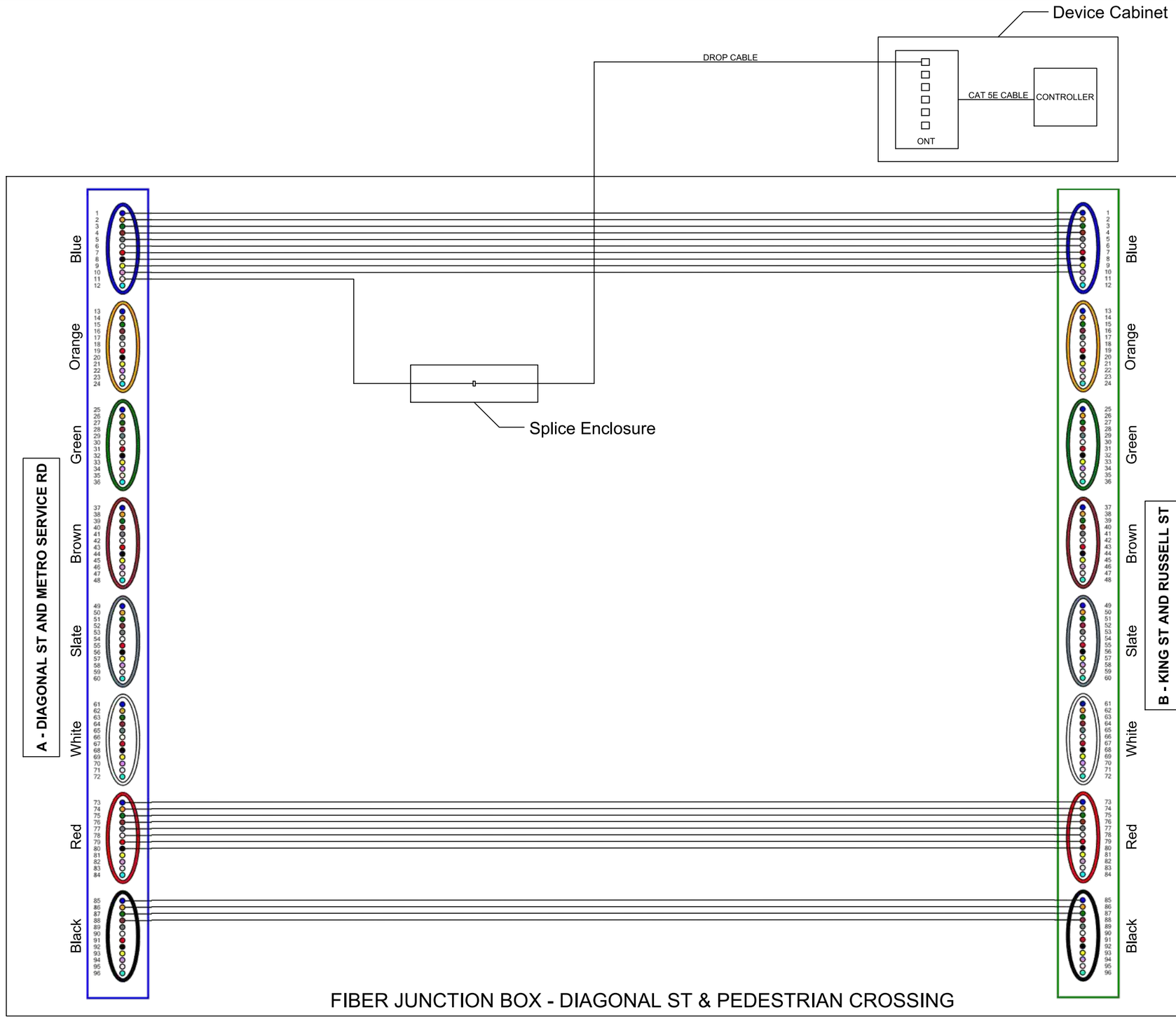
SPLICING DIAGRAM
KING ST & RUSSELL ST

SHEET
8-49

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Diagnal & Metro Srvc Rd
- B - BFO 96 to Pullbox @ King & Russell

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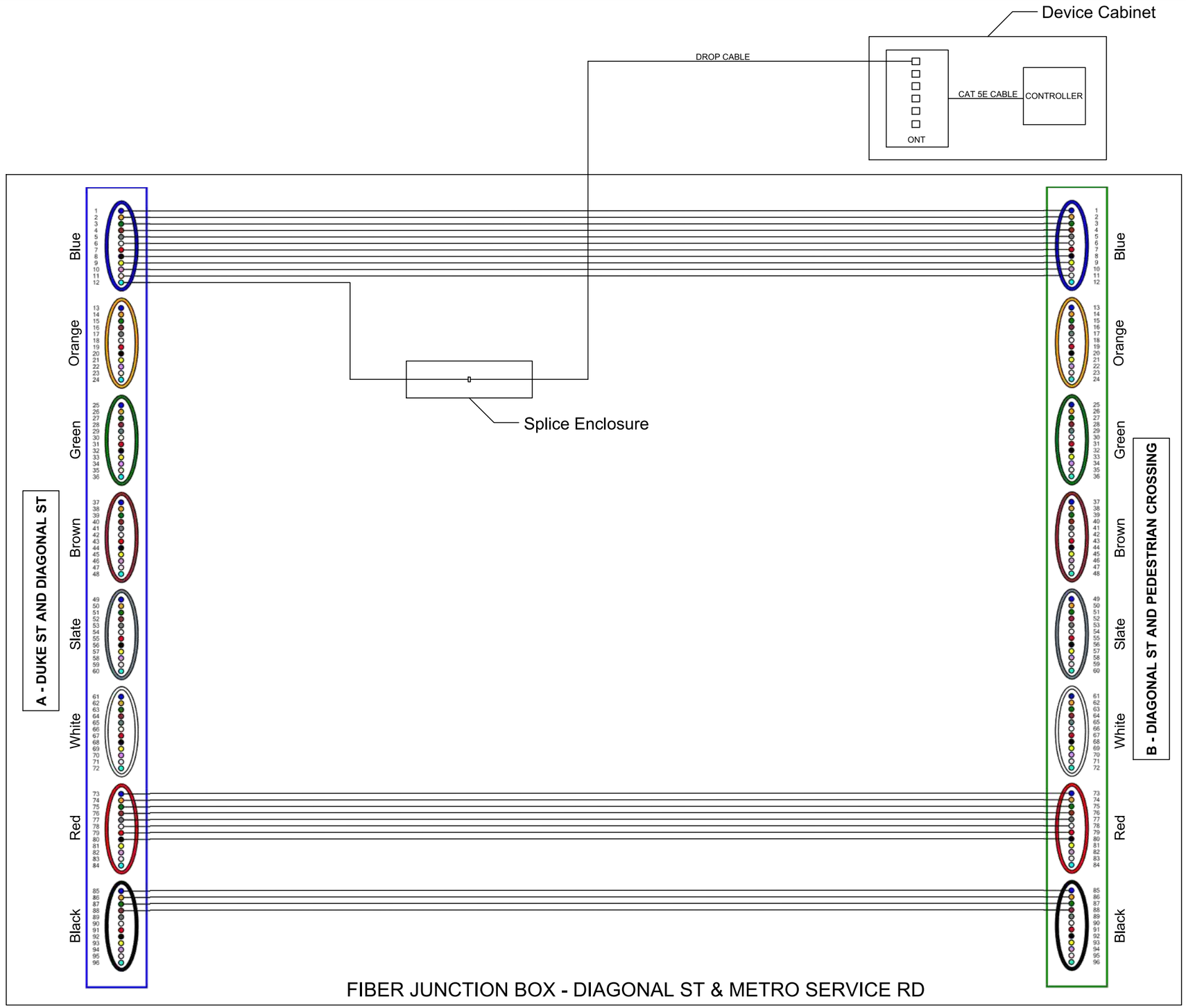
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
KING ST & PEDESTRIAN CROSSING

SHEET
8-50

SCALE N.T.S.



LEGEND

- A - BFO 96 to Term Cab @ Duke & Diagnal
- B - BFO 96 to Pullbox @ Diagnal & Pedestrian Xing

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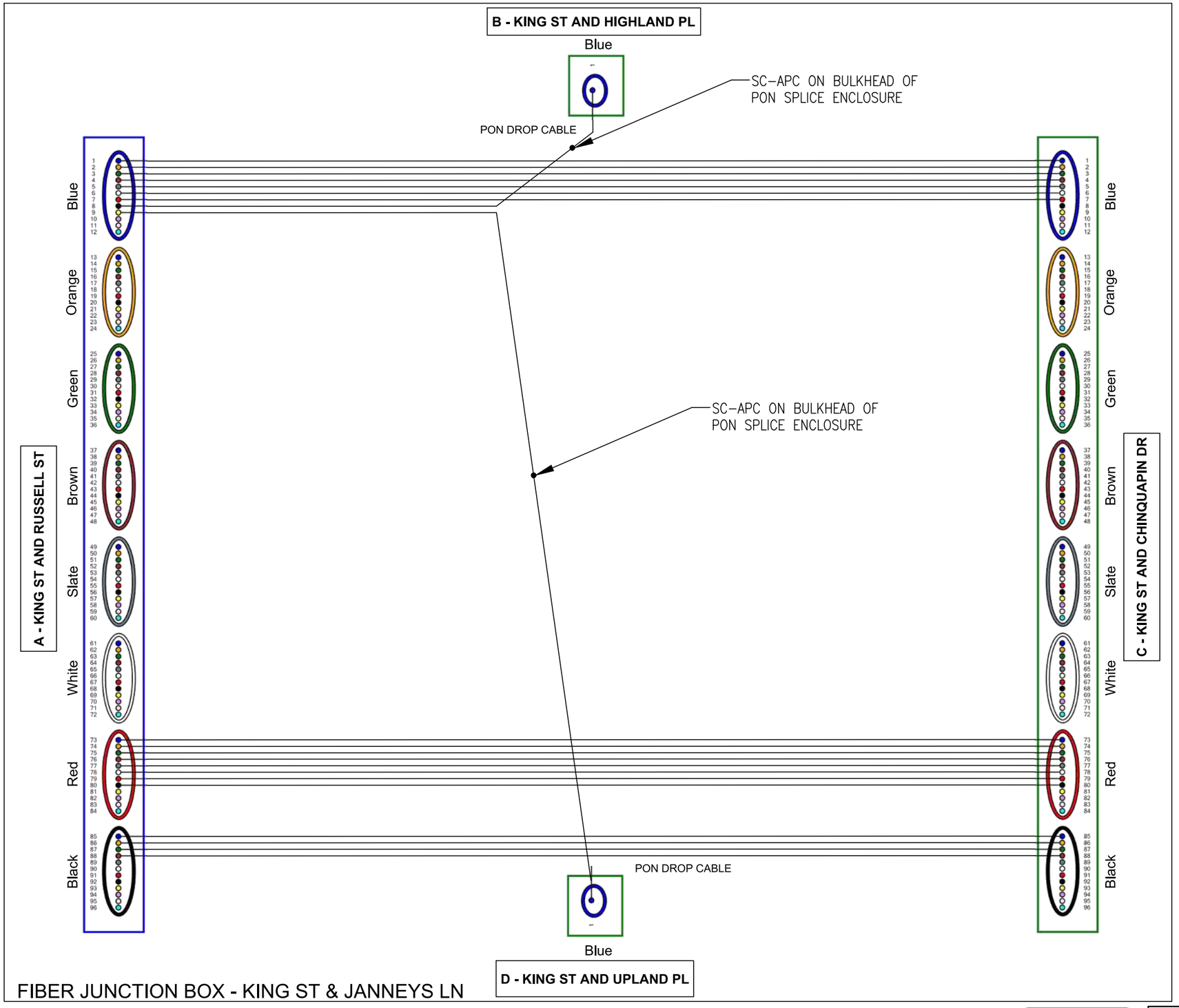
SPLICING DIAGRAM
DIAGONAL ST & METRO SERVICE RD

SHEET
8-51

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & Russell
- B - BFO 2 to Pullbox @ King & Highland
- C - BFO 96 to Pullbox @ King & Chinquapin
- D - BFO 2 to Pullbox @ King & Upland

NOTE:
REFER SHEET 5-5 FOR ACTIVE NETWORK SPLICE DIAGRAM AT KING ST & JANNEY'S LN

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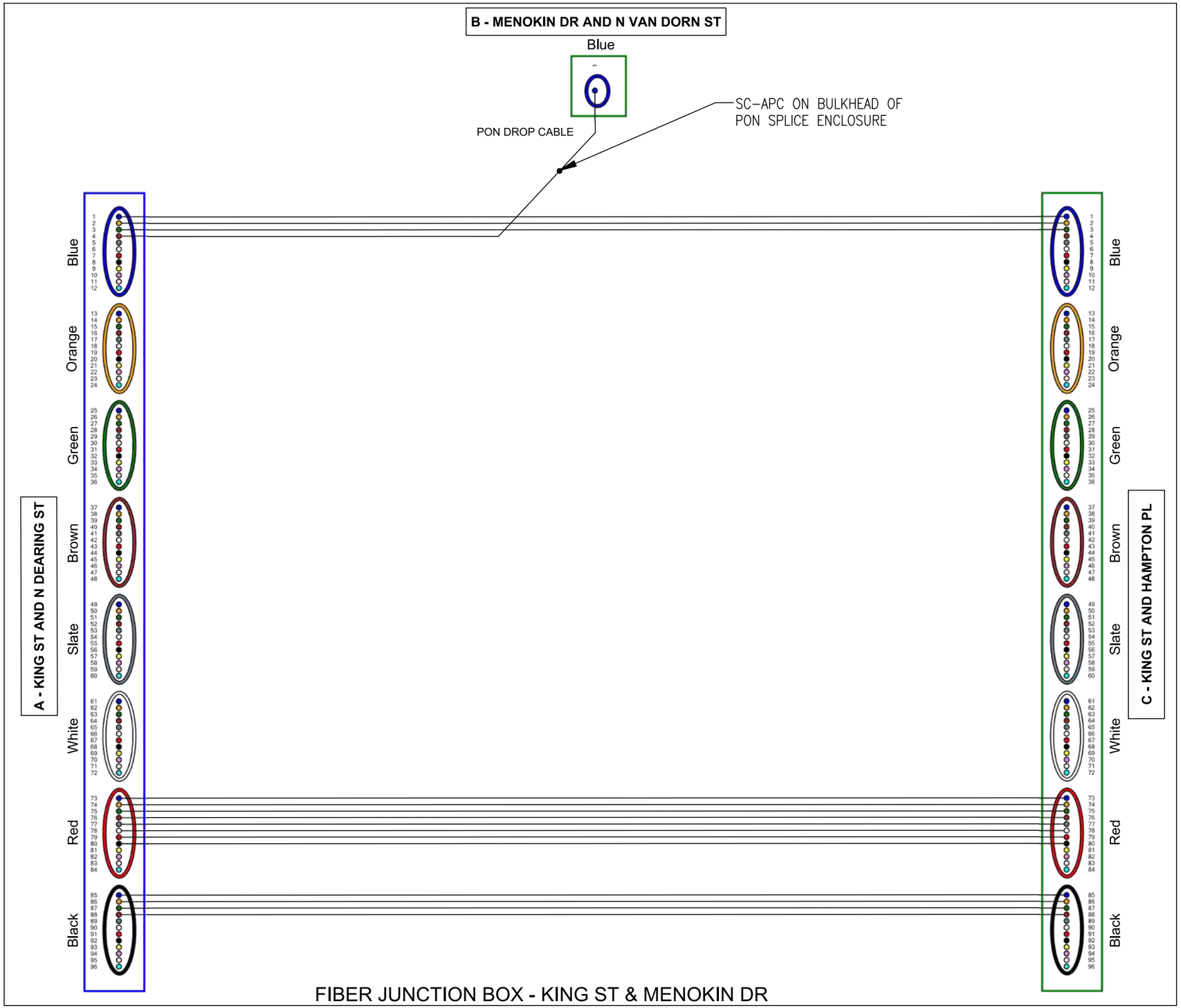
SPLICING DIAGRAM
KING ST & JANNEYS LN

SHEET
8–52

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & N Dearing
- B - BFO 2 to Pullbox @ Menokin & N Van Dorn
- C - BFO 96 to Pullbox @ King & Hampton

NOTE:
REFER SHEET 5-3 FOR ACTIVE NETWORK SPLICE DIAGRAM AT KING ST & MENOKIN DR

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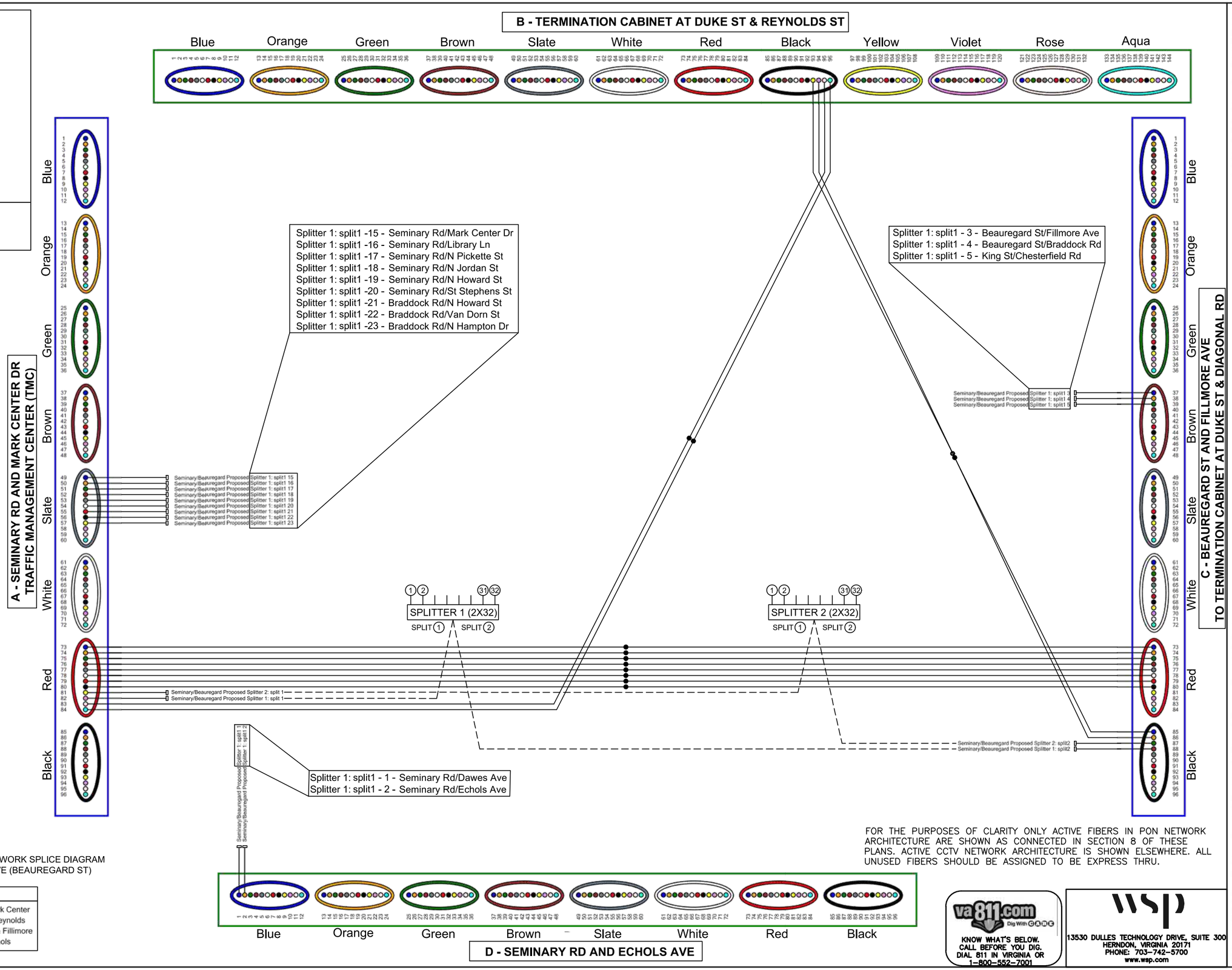
SPLICING DIAGRAM
KING ST & MENOKIN DR

SHEET
8-53
SCALE N.T.S.



NOTE:
REFER SHEET 8-52 FOR PASSIVE NETWORK SPLICE DIAGRAM AT SEMINARY RD & MARK CENTER AVE (BEAUREGARD ST)

LEGEND
A - BFO 96 to Pullbox @ Seminary & Mark Center
B - BFO 144 to Term Cab @ Duke & S Reynolds
C - BFO 96 to Pullbox @ N Beauregard & Fillimore
D - BFO 96 to Pullbox @ Seminary & Echols

FOR THE PURPOSES OF CLARITY ONLY ACTIVE FIBERS IN PON NETWORK ARCHITECTURE ARE SHOWN AS CONNECTED IN SECTION 8 OF THESE PLANS. ACTIVE CCTV NETWORK ARCHITECTURE IS SHOWN ELSEWHERE. ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS		
DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXXX
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DESIGNED BY: AG DATE: 7/24/20
DRAWN BY: PY DATE: 7/24/20
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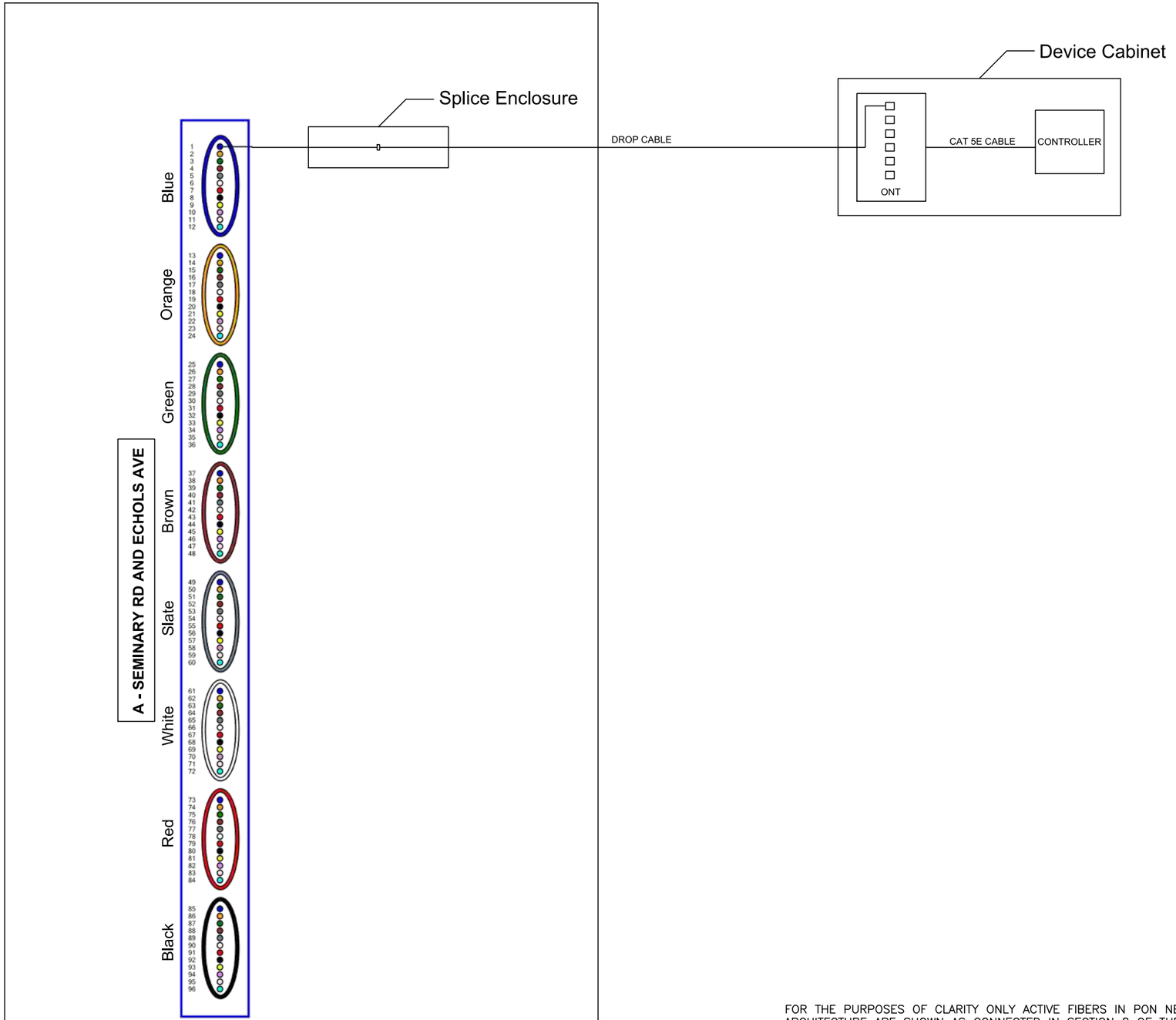
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
TERMINATION CABINET
SEMINARY RD &
MARK CENTER AVE(BEAUREGARD ST)

SHEET
8-54
SCALE N.T.S.



FIBER JUNCTION BOX - SEMINARY RD & DAWES AVE

LEGEND
A - BFO 96 to Pullbox @ Seminary & Echols

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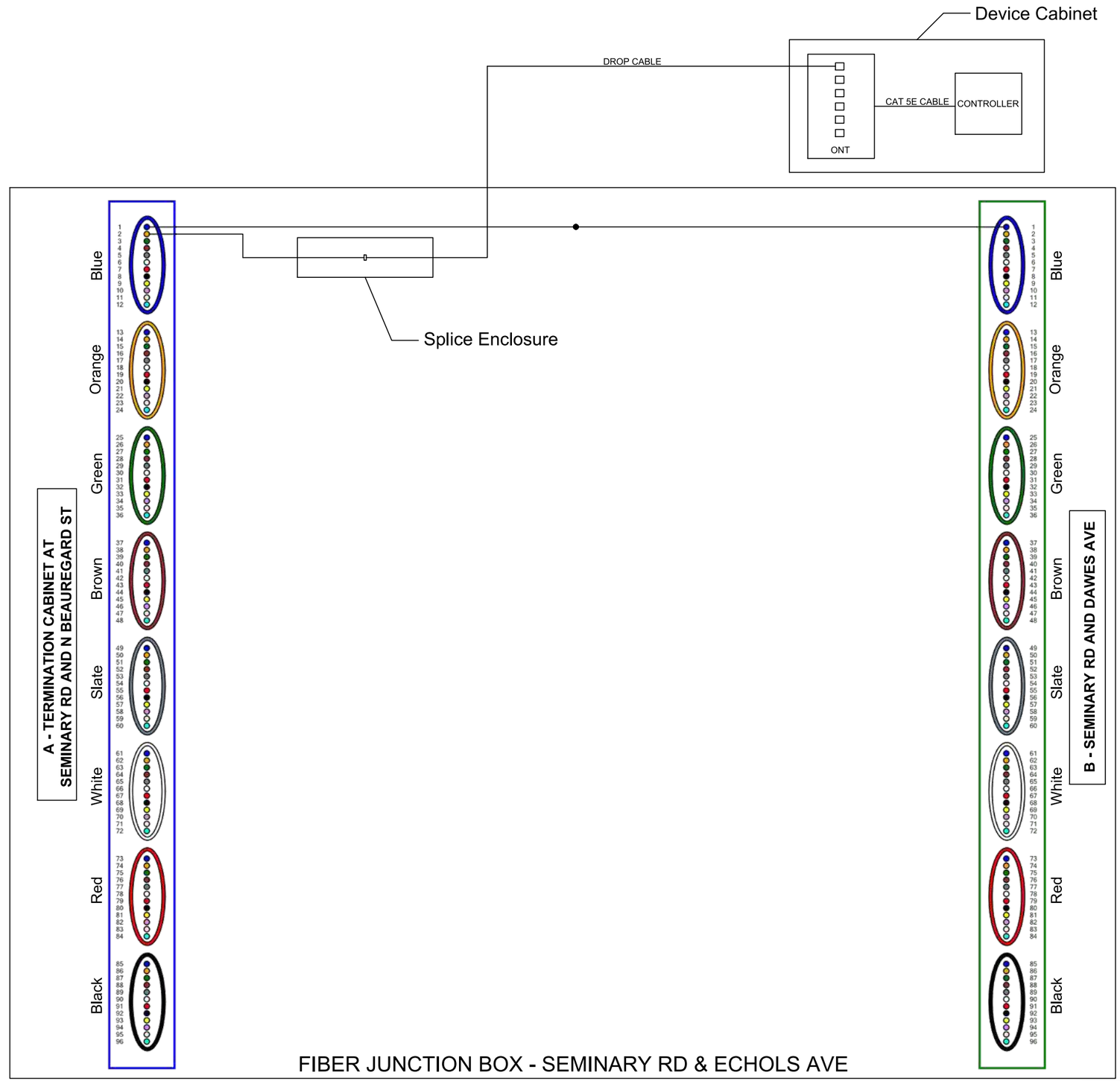
SPLICING DIAGRAM
SEMINARY RD & DAWES AVE

SHEET
8-55
SCALE N.T.S.



LEGEND
A - BFO 96 to Term Cab @ Seminary & N Beauregard
B - BFO 96 to Pullbox @ Seminary & Dawes

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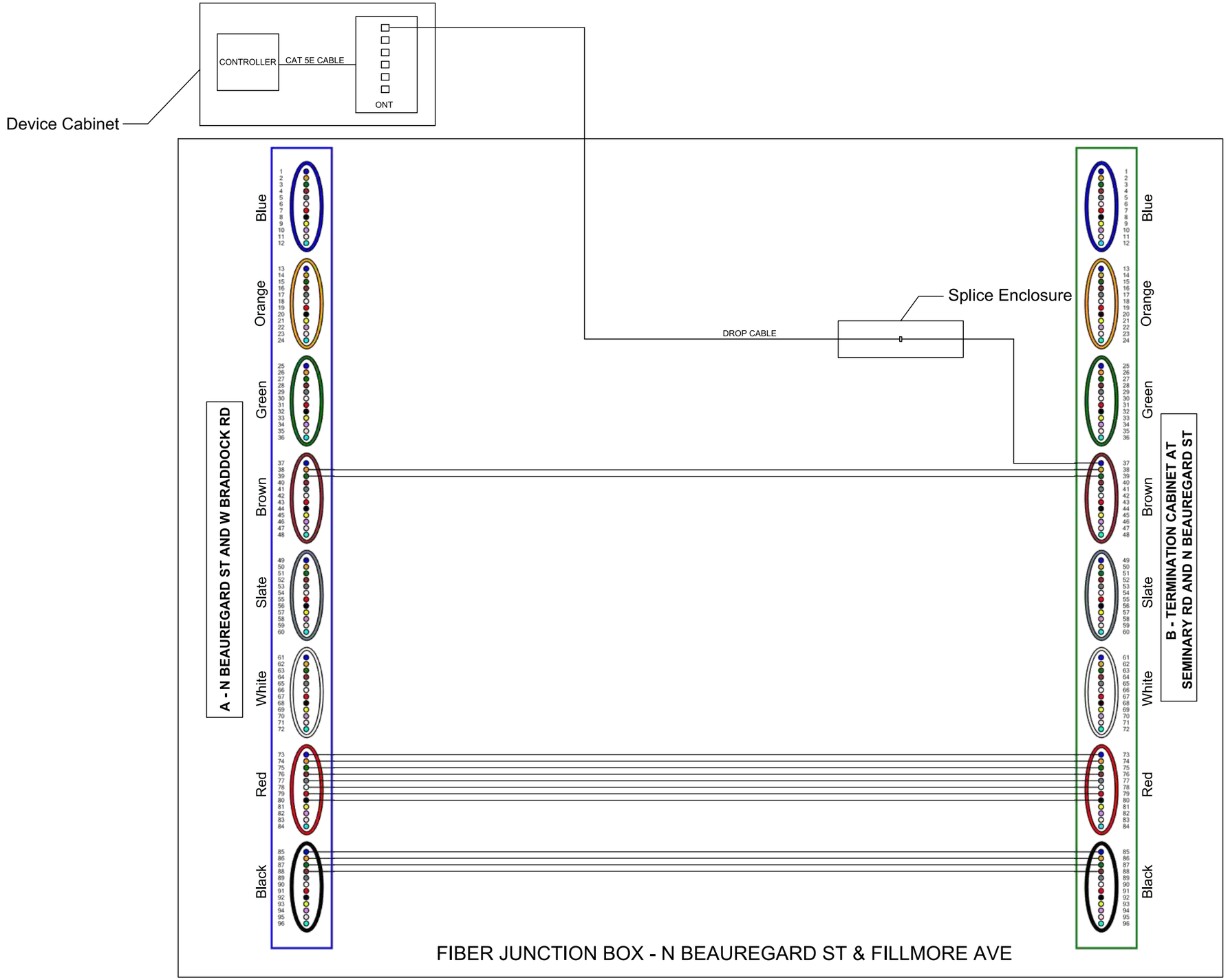
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
SEMINARY RD & ECHOLS AVE

SHEET
8-56
SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ N Beauregard & W Braddock
B - BFO 96 to Term Cab @ Seminary & N Beauregard

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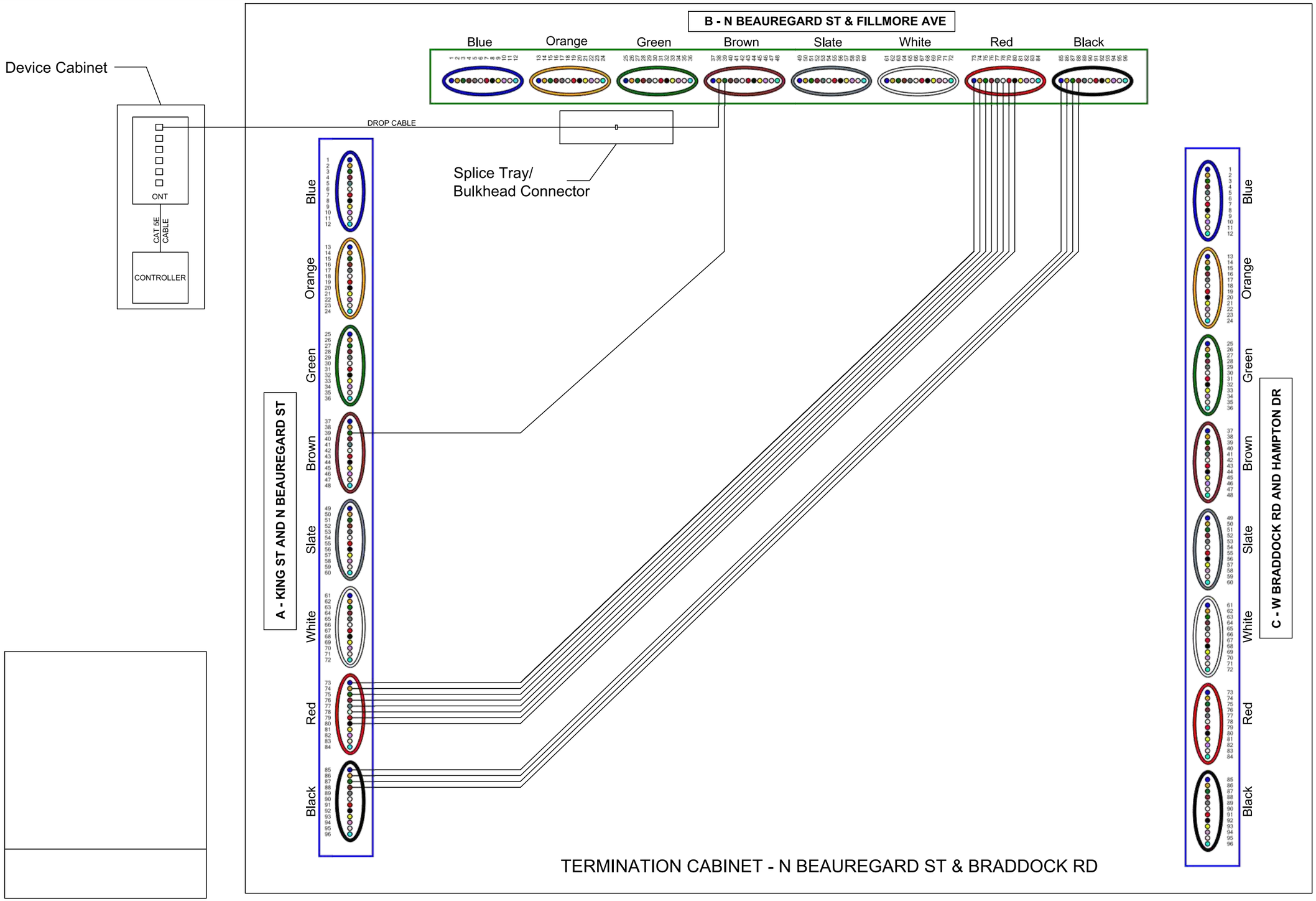
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
N BEAUREGARD ST & FILLMORE AVE

SHEET
8-57
SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & N Beauregard
- B - BFO 96 to Pullbox @ N Beauregard & Fillimore
- C - BFO 96 to Pullbox @ W Braddock & N Hampton

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NOTE:
REFER SHEET 5-15 FOR ACTIVE NETWORK SPLICE DIAGRAM AT N BEAUREGARD ST & BRADDOCK RD

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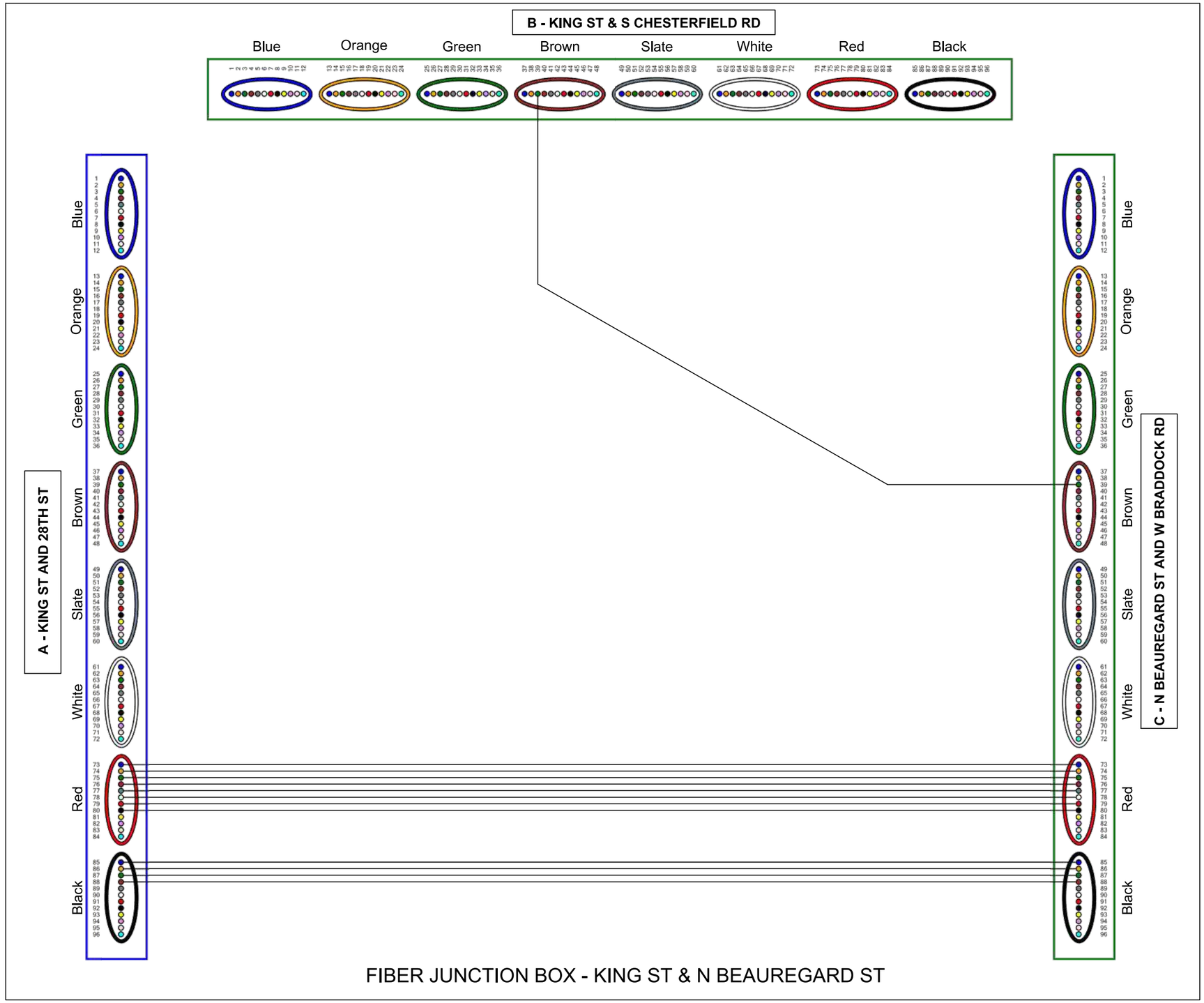
SPLICING DIAGRAM
N BEAUREGARD ST & BRADDOCK RD

SHEET
8–58

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ King & S 28th
B - BFO 96 to Pullbox @ King & S Chesterfield
C - BFO 96 to Pullbox @ N Beauregard & W Braddock

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NOTE:
REFER SHEET 5-16 FOR ACTIVE NETWORK SPLICE DIAGRAM AT KING ST & N BEAUREGARD ST

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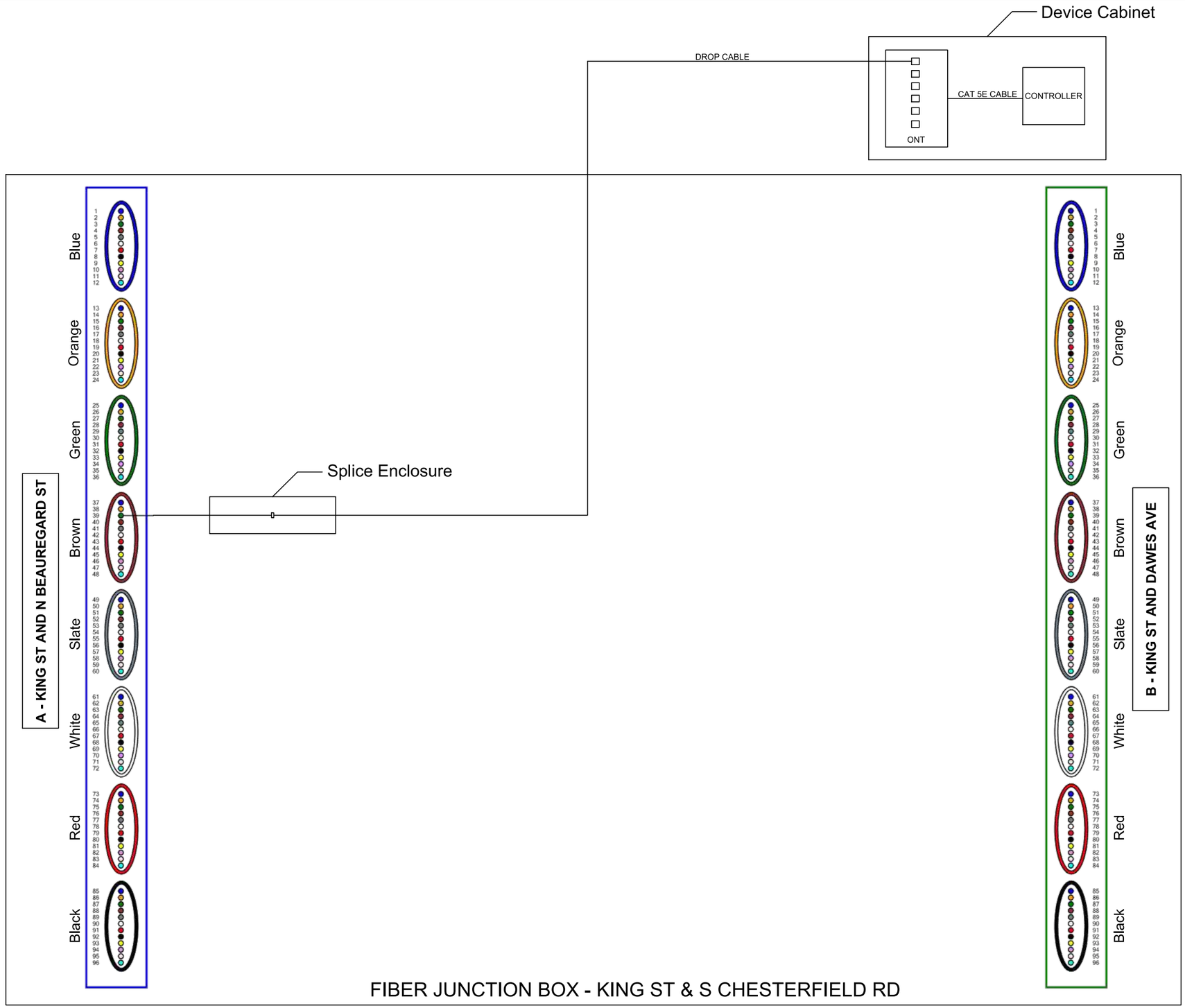
SPLICING DIAGRAM
KING ST & N BEAUREGARD ST

SHEET
8–59

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ King & N Beauregard
- B - BFO 96 to Pullbox @ King & Dawes

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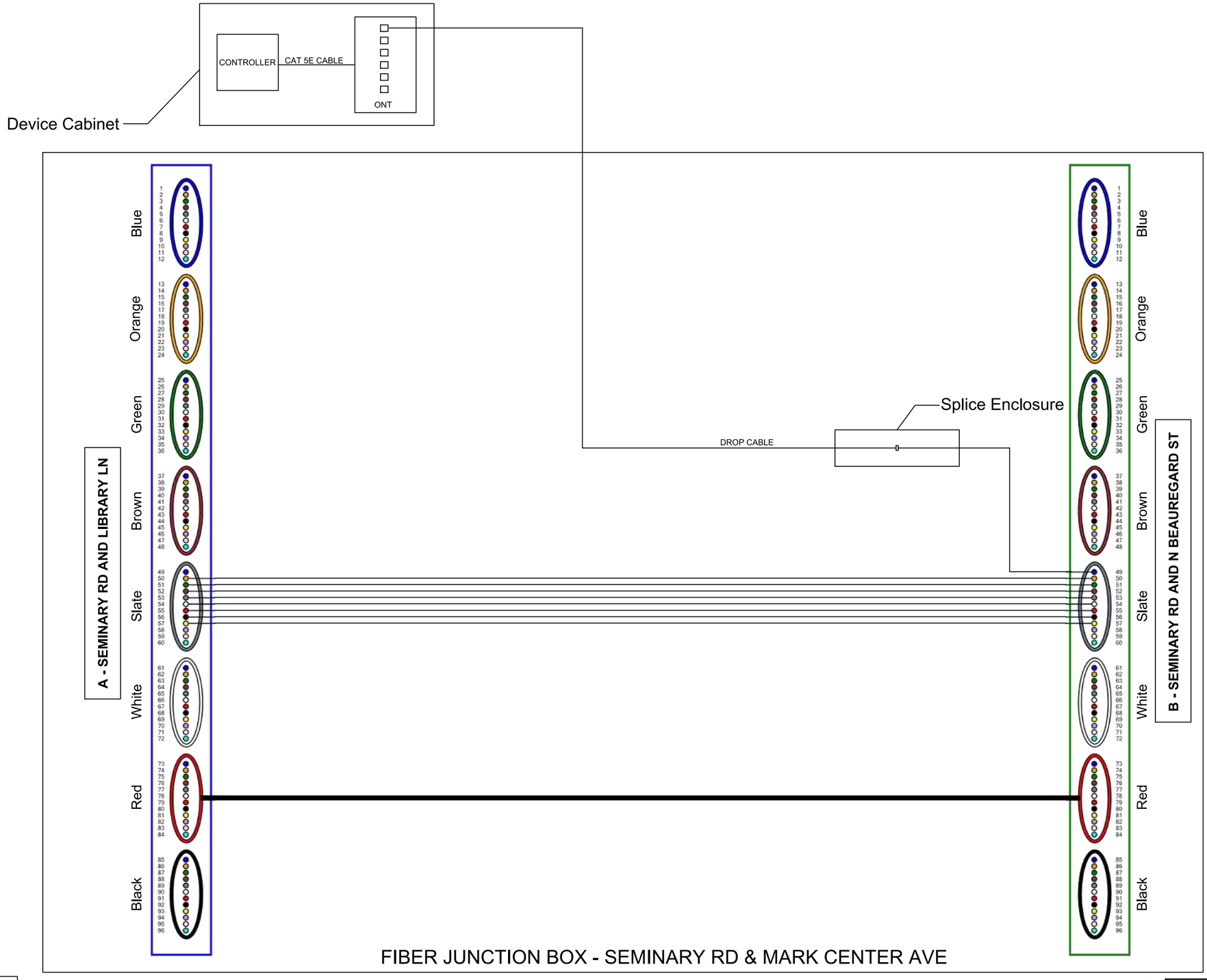
SPLICING DIAGRAM
KING ST & S CHESTERFIELD RD

SHEET
8-60

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Seminary & Library
B - BFO 96 to Term Cab @ Seminary & N Beauregard

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REVISIONS

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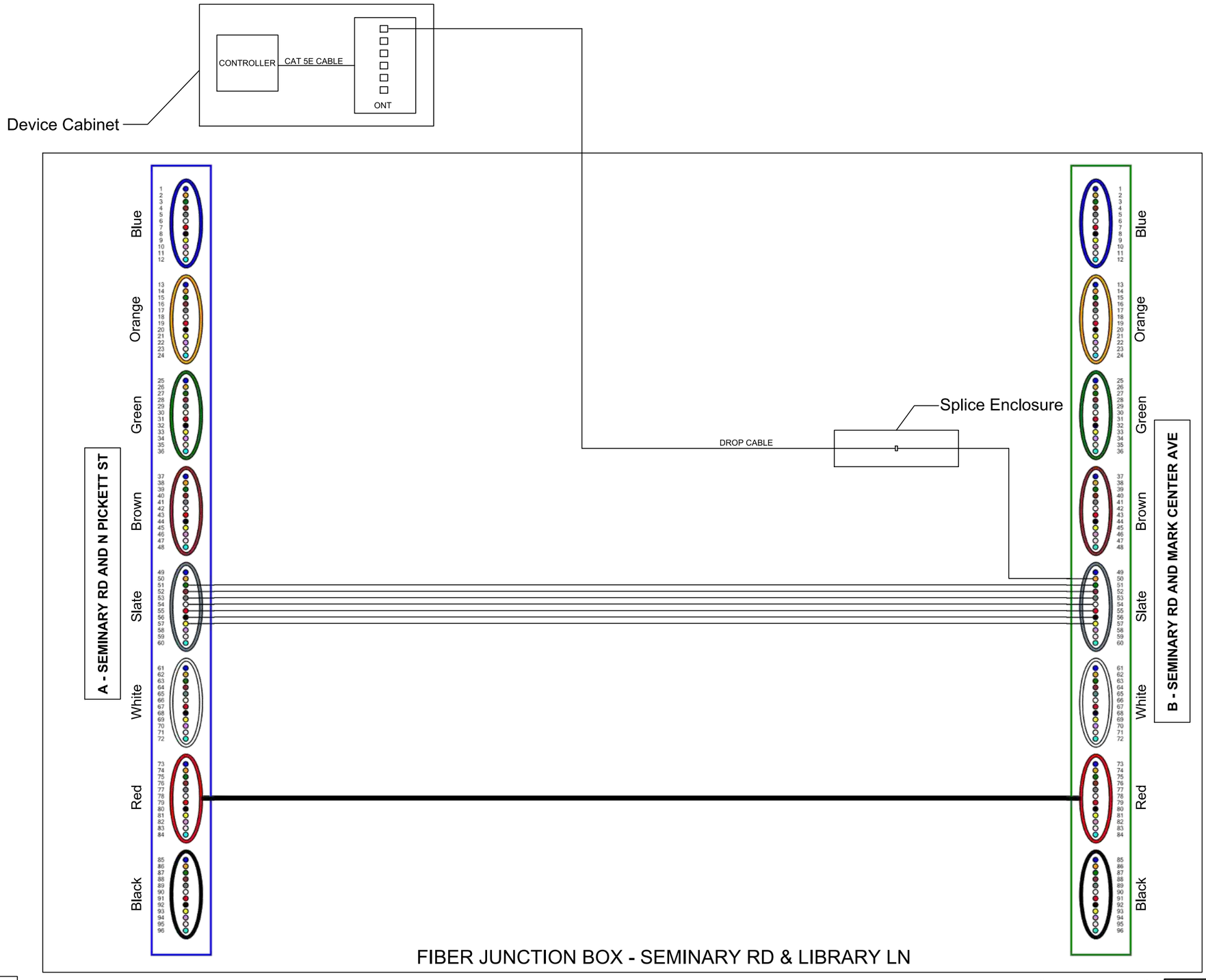
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
SEMINARY RD & MARK CENTER AVE

SHEET
8-61

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Seminary & N Pickett
B - BFO 96 to Pullbox @ Seminary & Mark Center

FOR THE PURPOSES OF CLARITY ONLY ACTIVE FIBERS IN PON NETWORK ARCHITECTURE ARE SHOWN AS CONNECTED IN SECTION 8 OF THESE PLANS. ACTIVE CCTV NETWORK ARCHITECTURE IS SHOWN ELSEWHERE. ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

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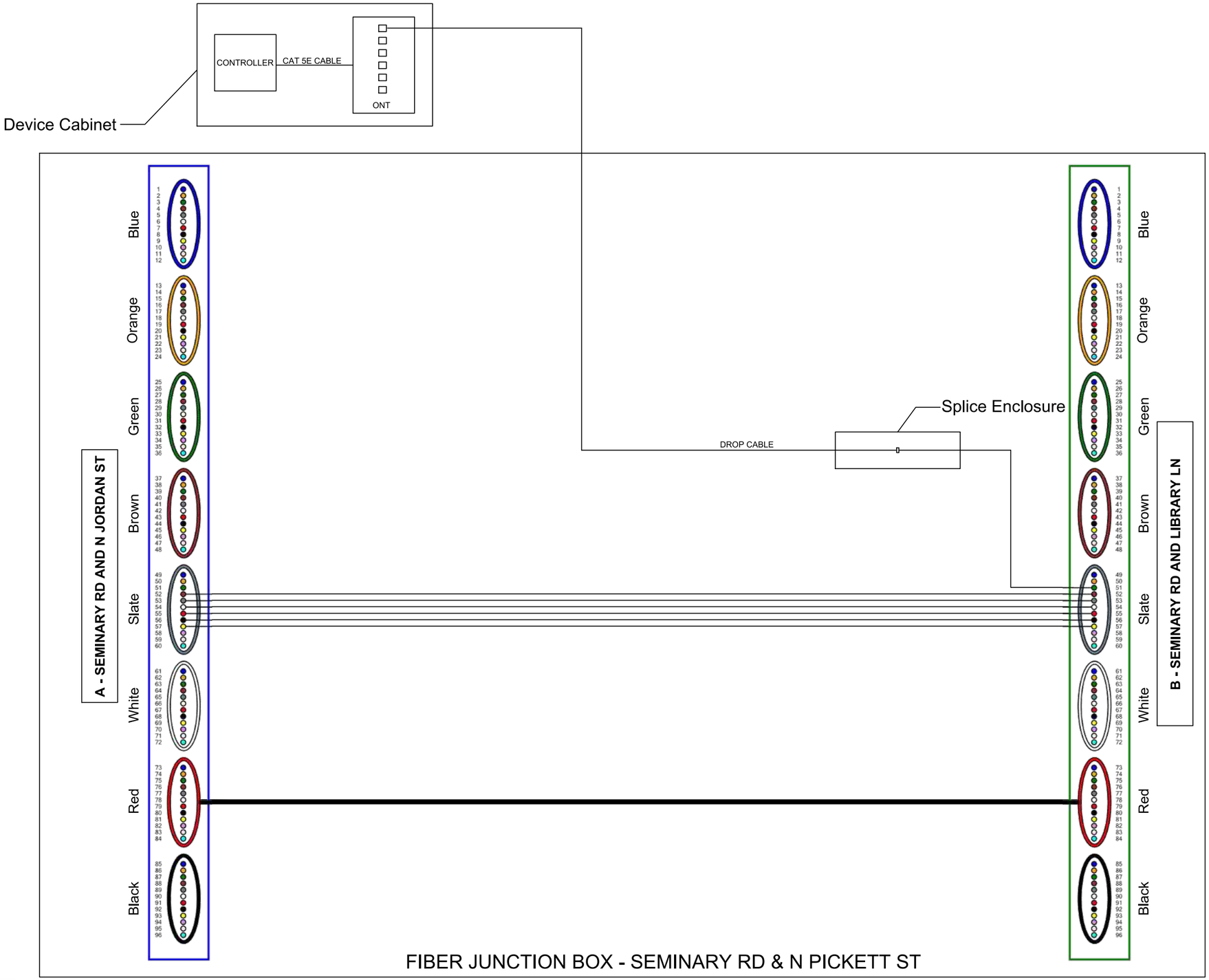
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
SEMINARY RD & LIBRARY LN

SHEET
8-62

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Seminary & N Jordan
B - BFO 96 to Pullbox @ Seminary & Library

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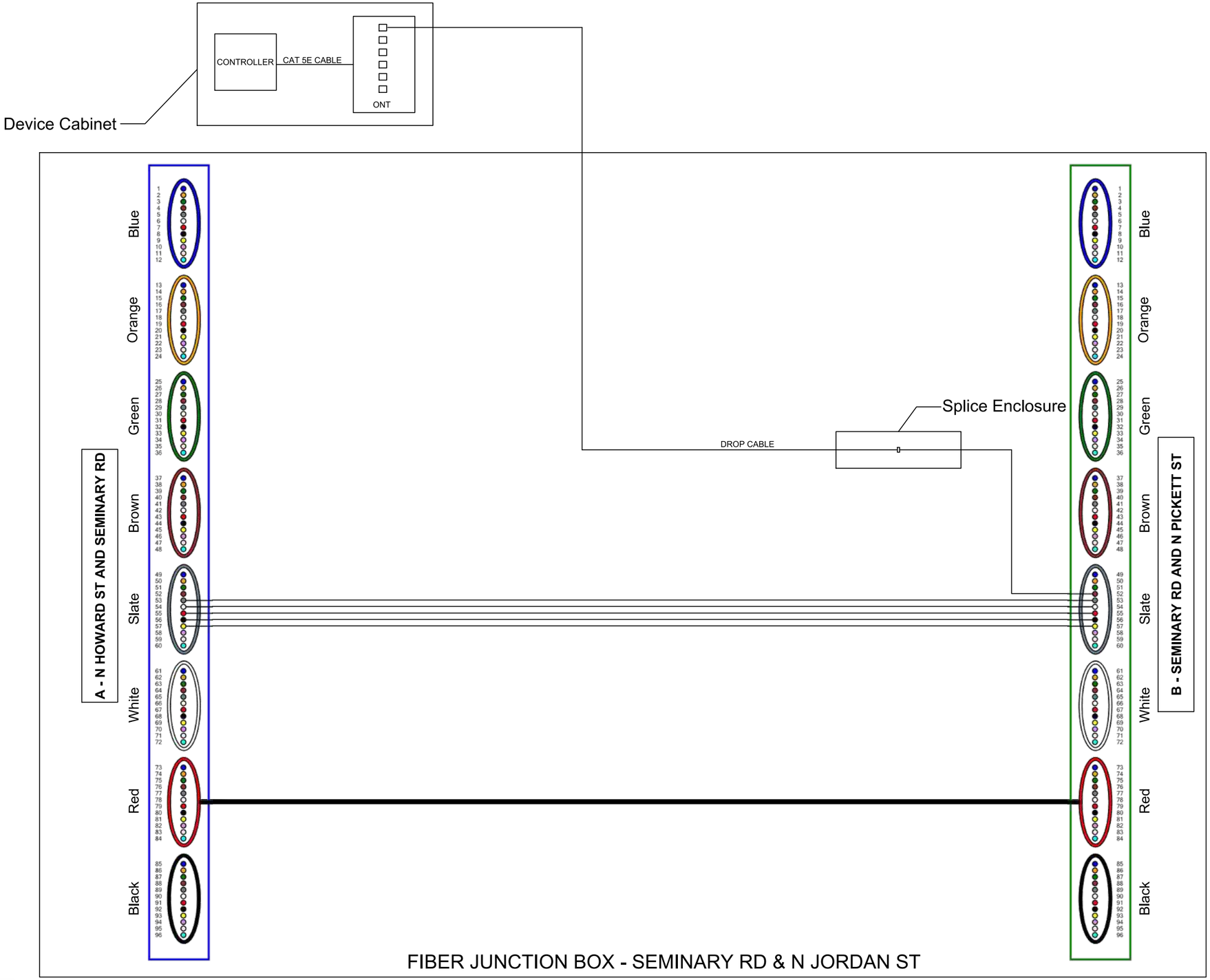
SPLICING DIAGRAM
SEMINARY RD & N PICKETT ST

SHEET
8-63

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ N Howard & Seminary
B - BFO 96 to Pullbox @ Seminary & N Pickett

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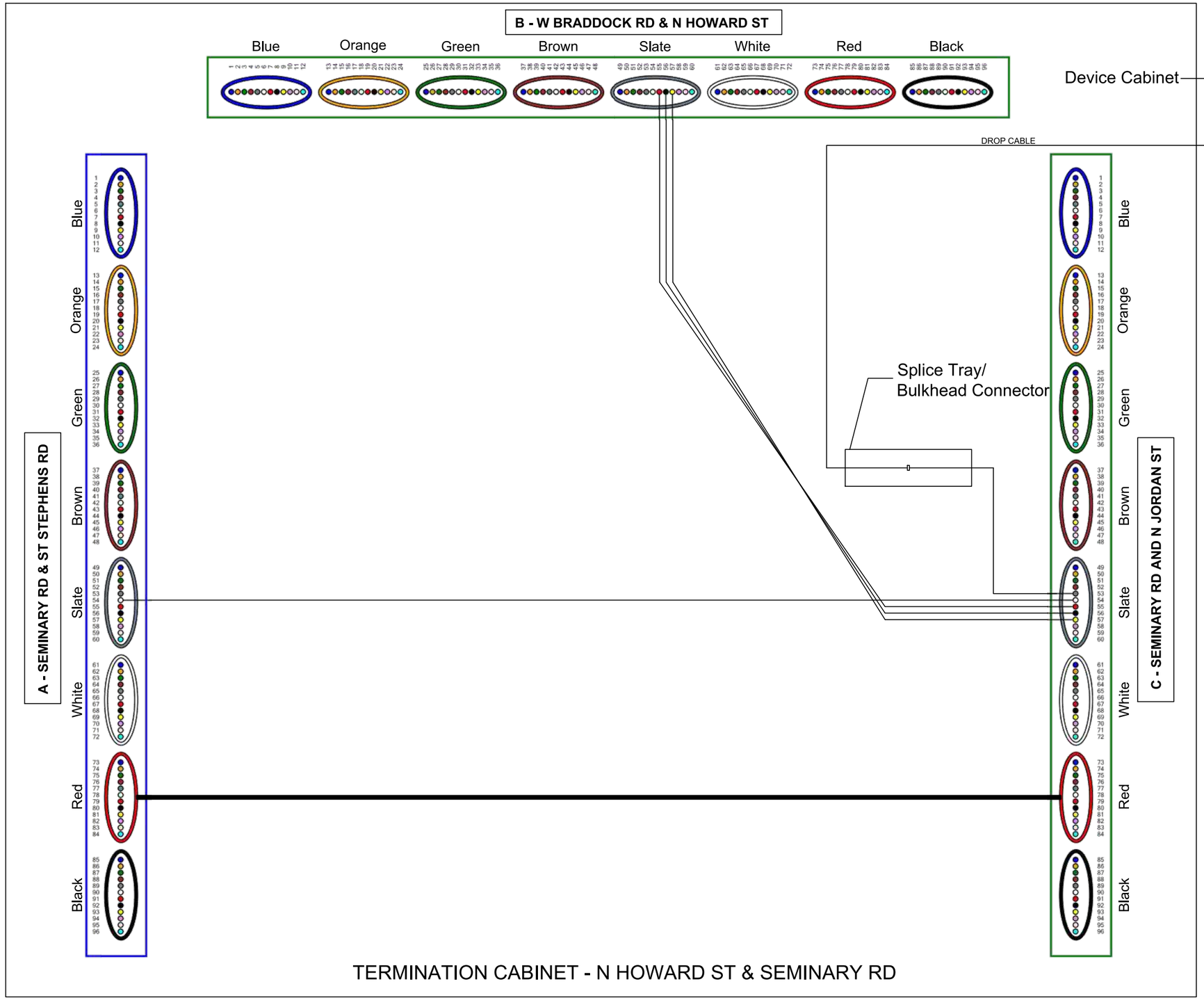
SPLICING DIAGRAM
SEMINARY RD & N JORDAN ST

SHEET
8-64

SCALE N.T.S.



LEGEND
A - BFO 96 to Pullbox @ Seminary & St Stephens
B - BFO 96 to Pullbox @ W Braddock & N Howard
C - BFO 96 to Pullbox @ Seminary & N Jordan

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NOTE:
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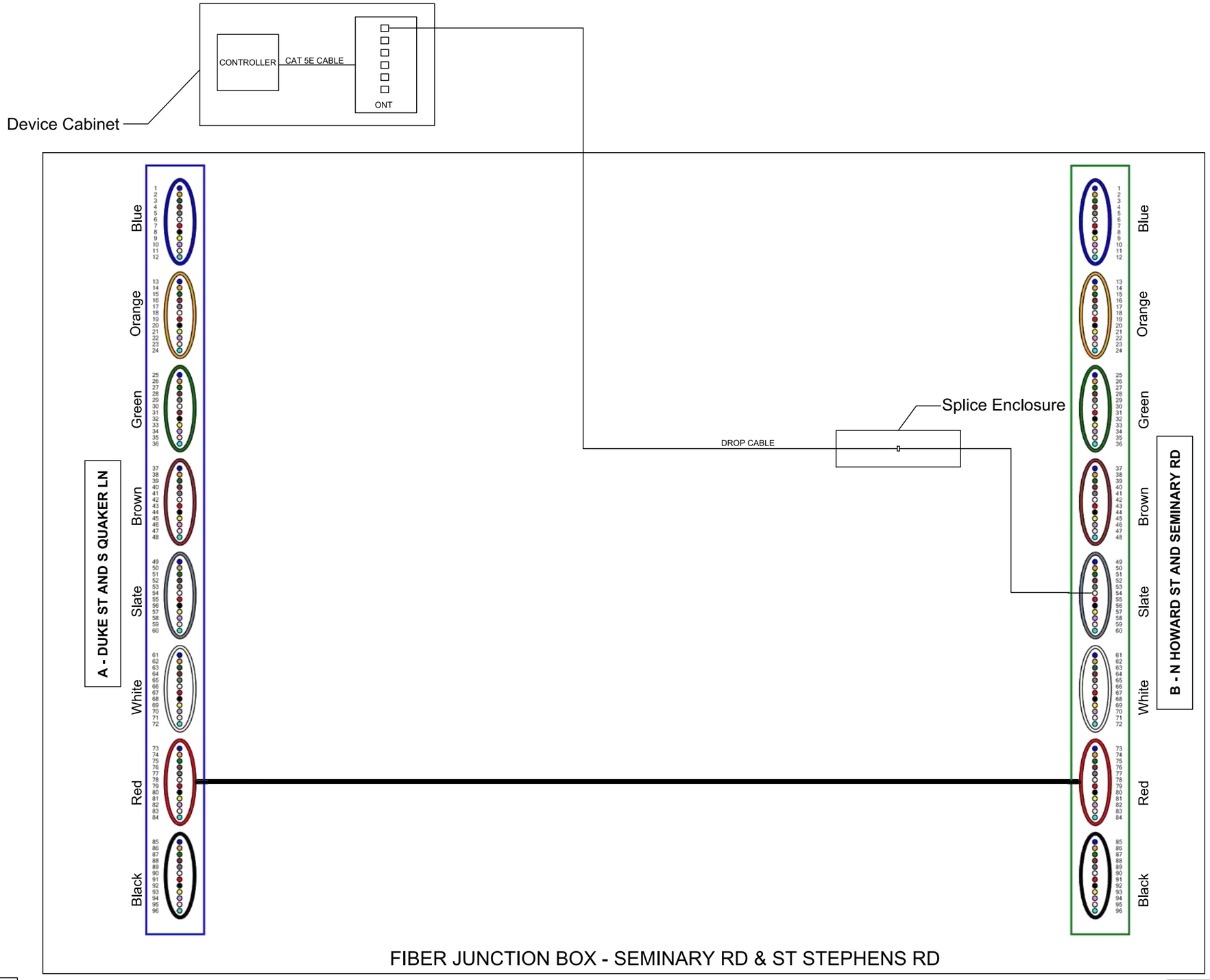
SPLICING DIAGRAM
N HOWARD ST & SEMINARY RD

SHEET
8–65

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ Duke & S Quaker
- B - BFO 96 to Pullbox @ N Howard & Seminary

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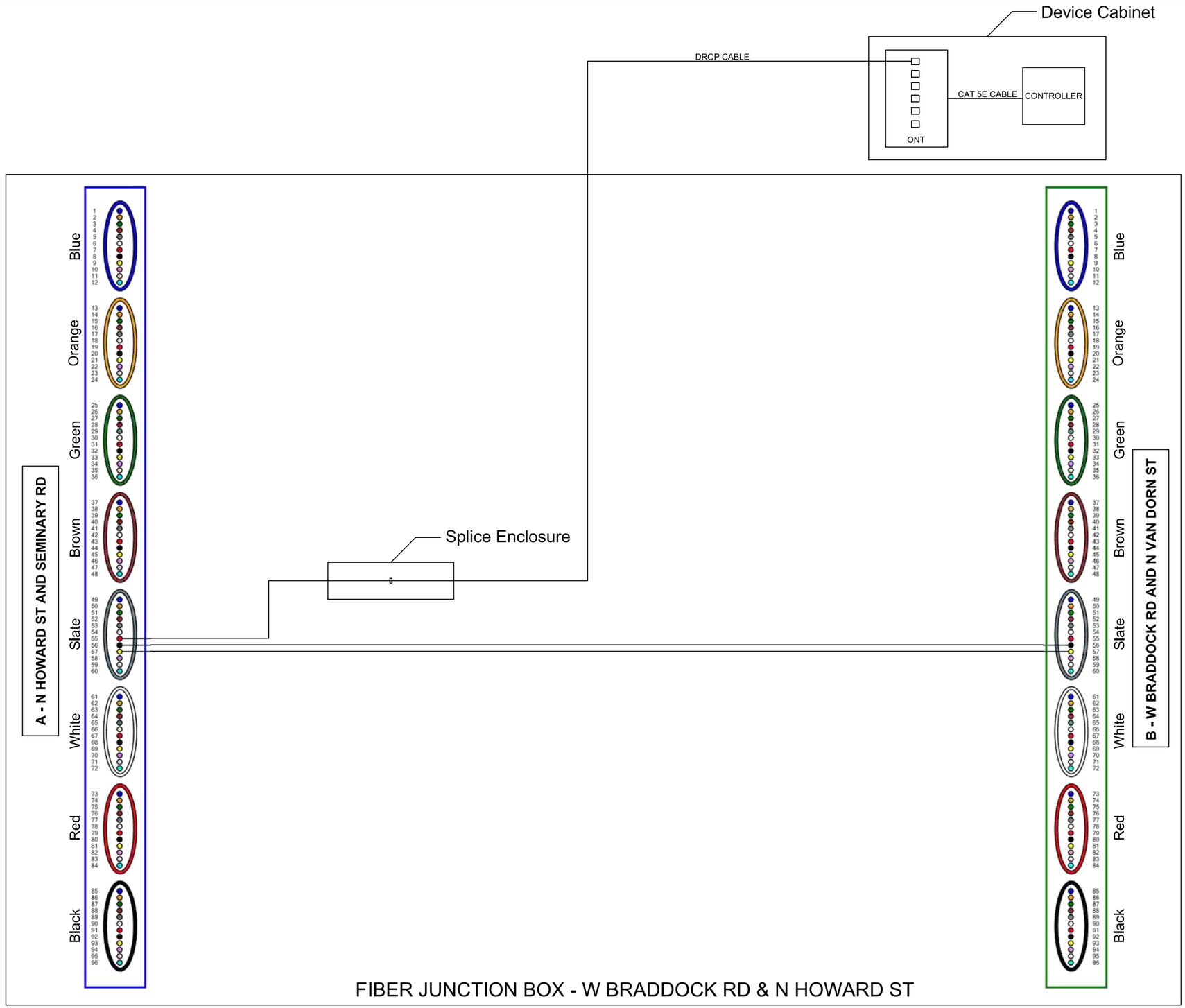
SPLICING DIAGRAM
SEMINARY RD & ST STEPHENS RD

SHEET
8-66

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ N Howard & Seminary
- B - BFO 96 to Pullbox @ W Braddock & N Van Dorn

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ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

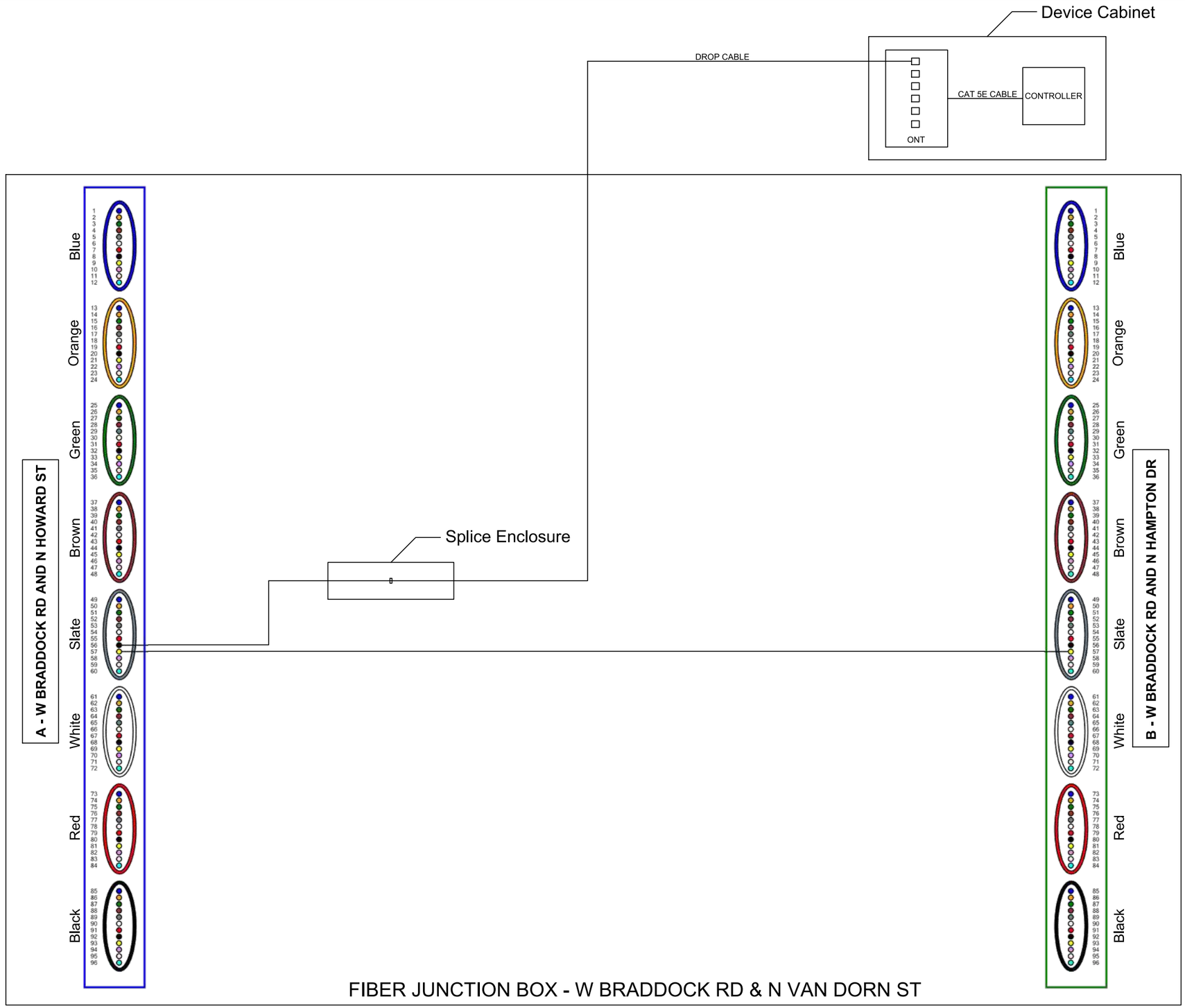
DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: XXXXXXX
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AG DATE: 7/24/20
DRAWN BY: PY DATE: 7/24/20
CHECKED BY: RR DATE: 7/24/20
APPROVED BY: XX DATE: 7/24/20

SPLICING DIAGRAM
W BRADDOCK RD & N HOWARD ST

SHEET
8-67

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ W Braddock & N Howard
- B - BFO 96 to Pullbox @ W Braddock & N Hampton

FOR THE PURPOSES OF CLARITY ONLY ACTIVE FIBERS IN PON NETWORK ARCHITECTURE ARE SHOWN AS CONNECTED IN SECTION 8 OF THESE PLANS. ACTIVE CCTV NETWORK ARCHITECTURE IS SHOWN ELSEWHERE. ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

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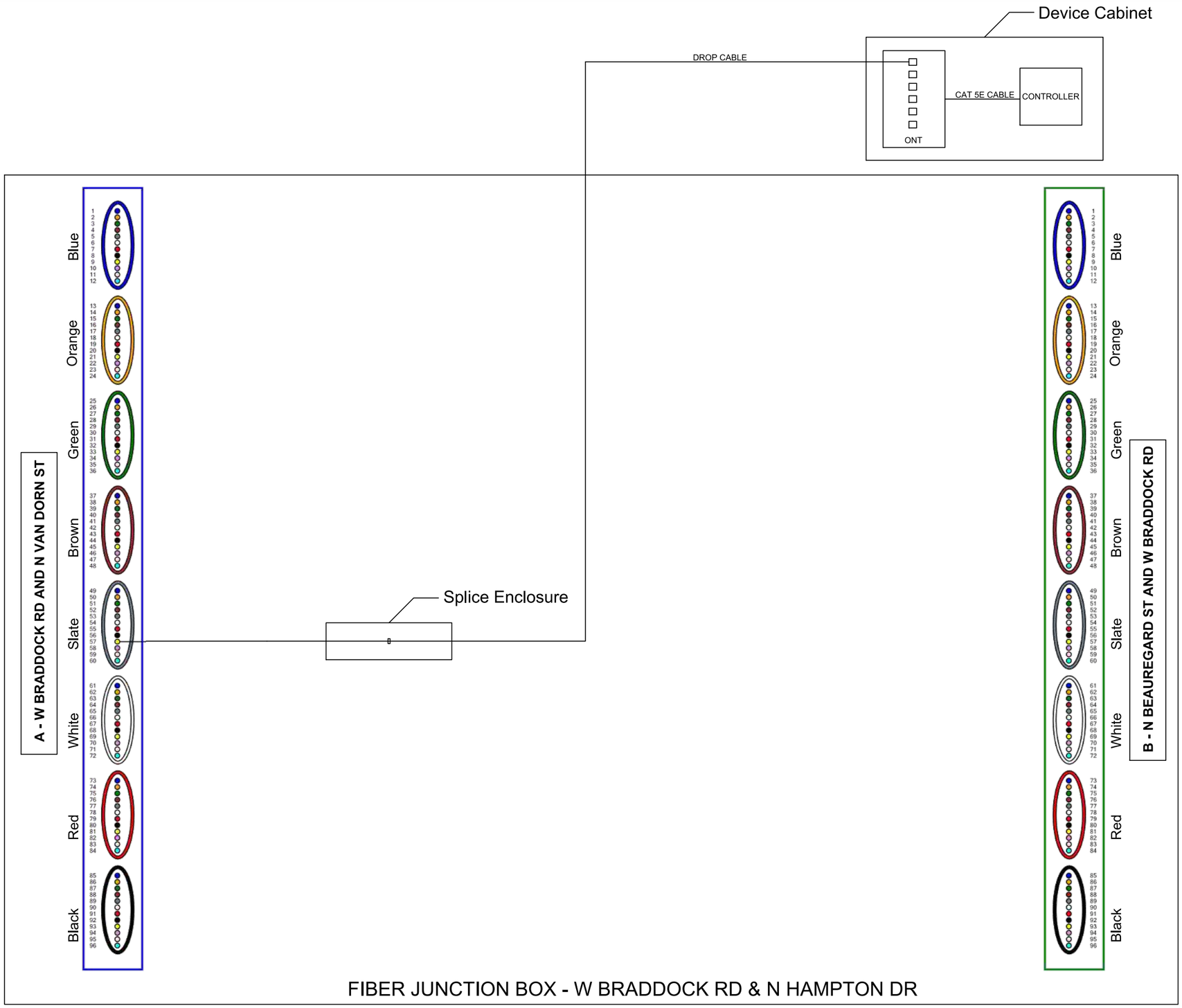
SPLICING DIAGRAM
W BRADDOCK RD & N VAN DORN ST

SHEET
8-68

SCALE N.T.S.



LEGEND

- A - BFO 96 to Pullbox @ W Braddock & N Van Dorn
- B - BFO 96 to Pullbox @ N Beauregard & W Braddock

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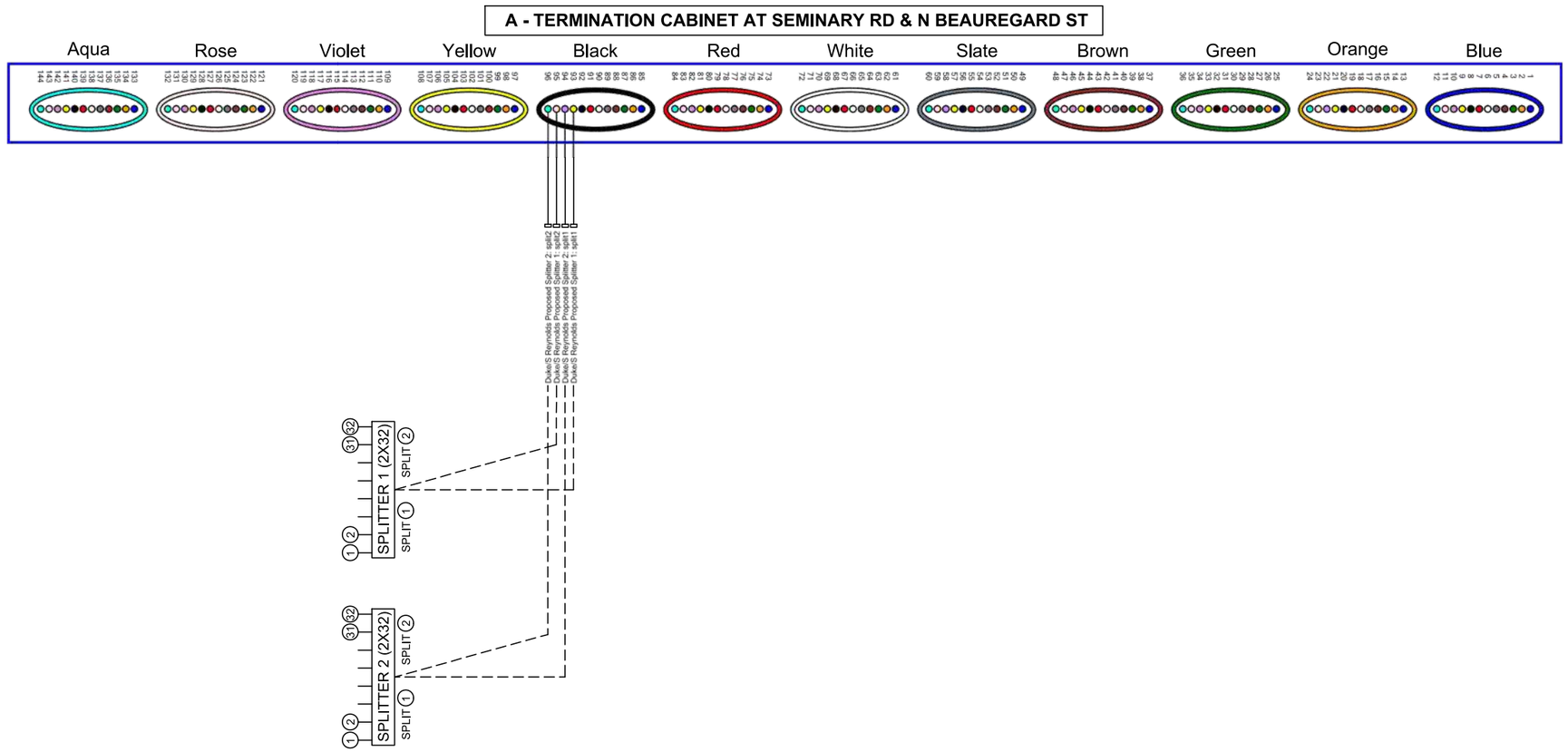
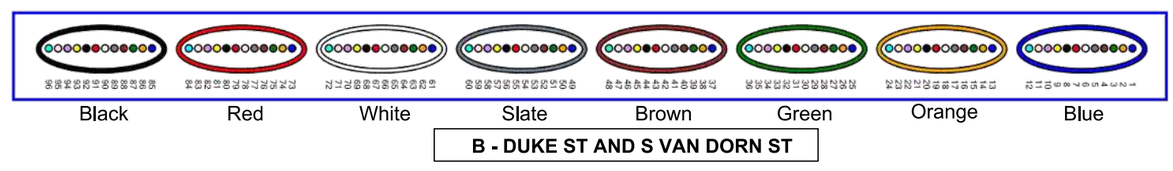
ITS INTEGRATION PHASE III CITY OF ALEXANDRIA

SPLICING DIAGRAM
W BRADDOCK RD & N HAMPTON DR

SHEET
8-69

SCALE N.T.S.





NOTE:
REFER SHEET 5-19 FOR ACTIVE NETWORK SPLICE DIAGRAM AT DUKE ST & S REYNOLDS ST

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LEGEND
A - BFO 144 to Term Cab @ Seminary & N Beauregard
B - BFO 96 to Pullbox @ Duke & S Van Dorn

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SPLICING DIAGRAM
TERMINATION CABINET
DUKE ST & S REYNOLDS ST

SHEET
8–70
SCALE N.T.S.