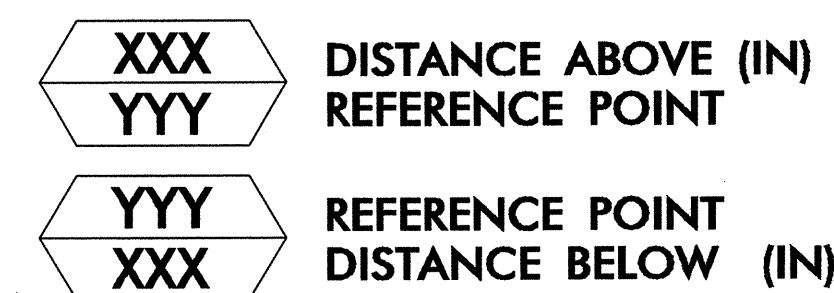


- 1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
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- 3 INSTALL CATEGORY 5E CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL COAXIAL CABLE
- 6 INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY
- 7 INSTALL TRACER WIRE
- 8 INSTALL CONDUIT UNDERGROUND
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING
- 13 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER(S)
- 20 INSTALL CABLE(S) IN NEW RISER(S)
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- 22 INSTALL NEW CONDUIT INTO CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO POLE MOUNTED CABINET
- 26 INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER
- 27 INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 NOT USED
- 32 NOT USED
- 33 REMOVE EXISTING SPLICE CABINET
- 34 REMOVE EXISTING WIRELESS SYSTEM

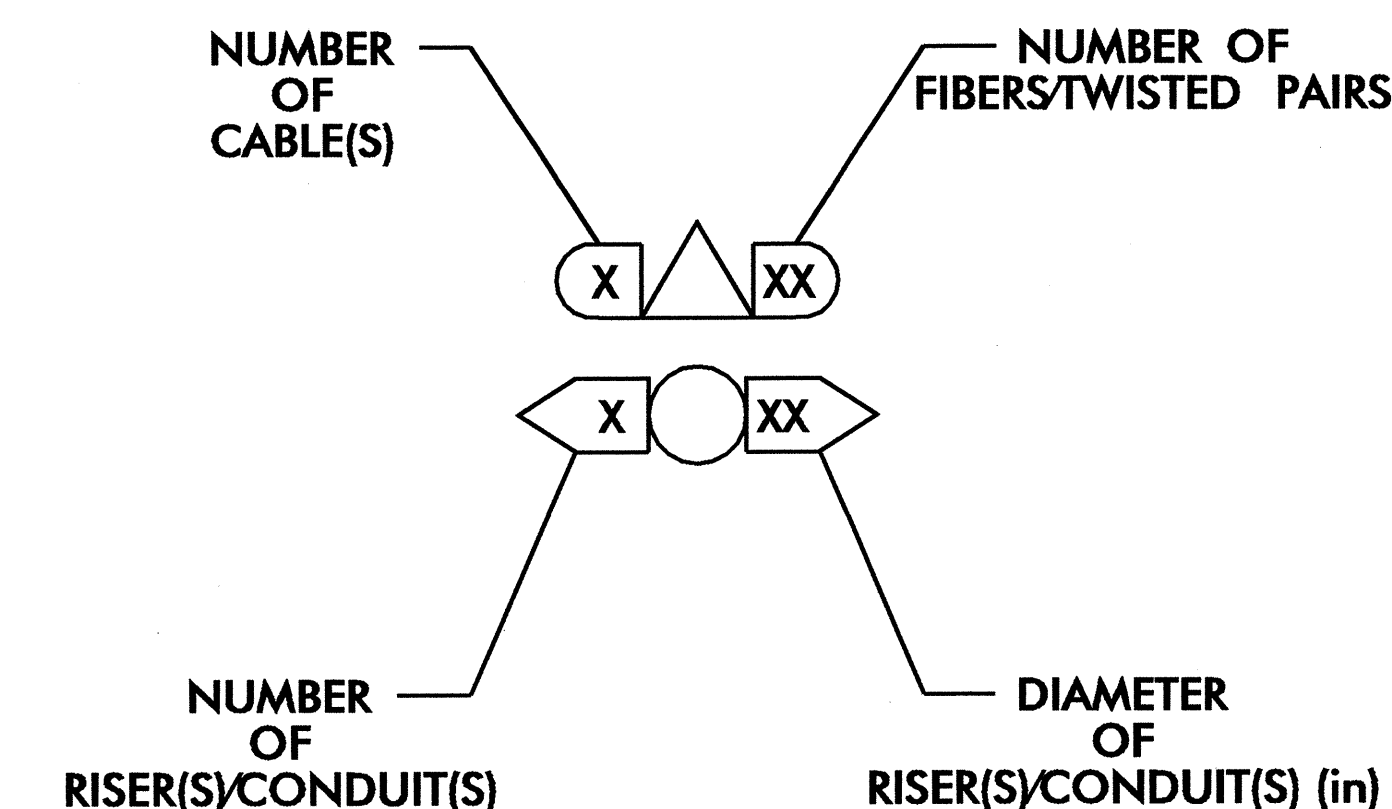
- 35 REMOVE EXISTING CCTV CAMERA ASSEMBLY
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL SPECIAL-SIZED JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL DOWN GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL TELEPHONE SERVICE
- 51 INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE
- 52 INSTALL SERVICE POLE
- 53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
- 58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV
- 59 INSTALL NEW POLE MOUNTED CCTV CABINET
- 60 INSTALL OMNI-DIRECTIONAL ANTENNA
- 61 INSTALL 900MHZ RADIO
- 62 INSTALL DIRECTIONAL ANTENNA
- 63 MAINTAIN EXISTING COMMUNICATION CABLE(S)
- 64 INSTALL AERIAL CABLE PROTECTOR

ATTACHMENT POINT:



CONSTRUCTION NOTE SYMBOLOGY KEY

- (X) INDICATES NUMBER OF CABLES, LOOPS, ETC.
- (XX) INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- ◁X INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- ▷XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (in)



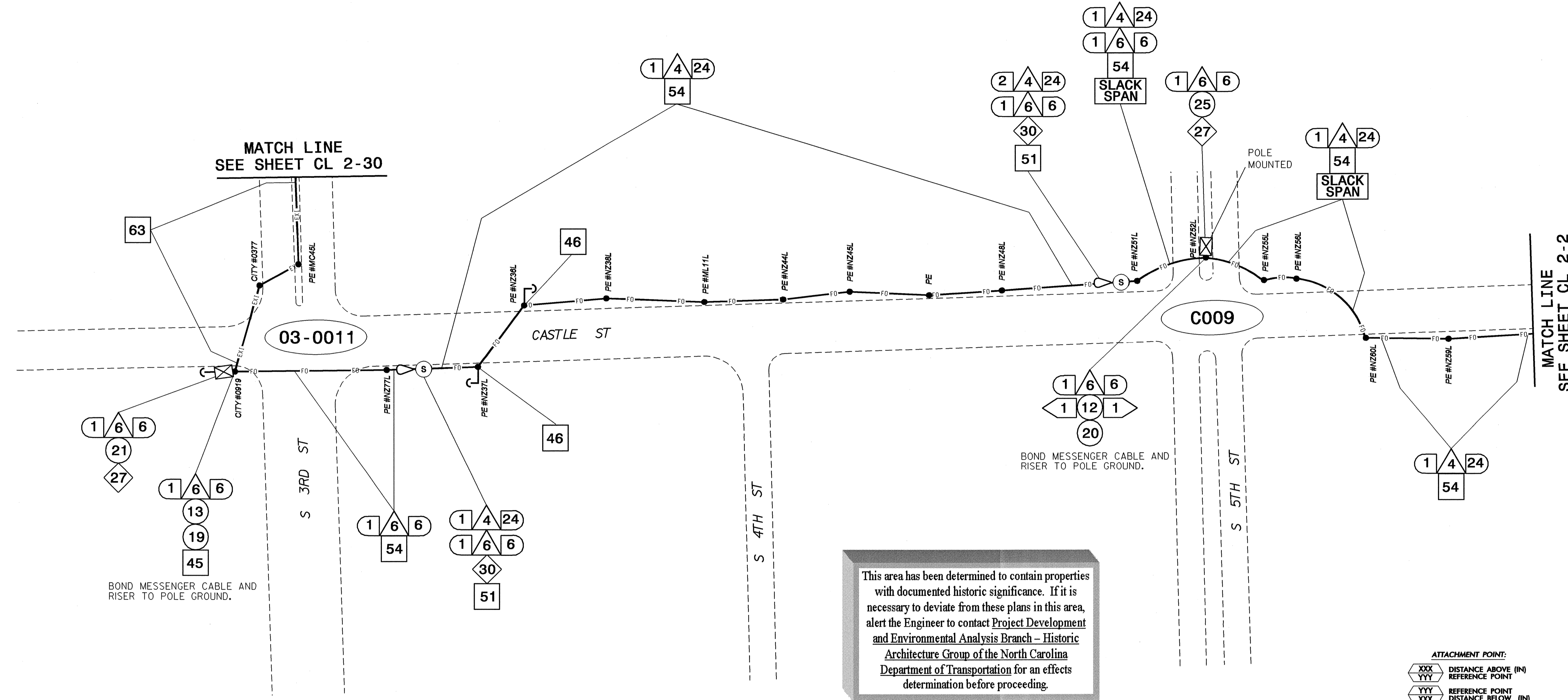
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888

CITY OF WILMINGTON
305 Chestnut Street
4th Floor, Tower
Wilmington, NC 28402

	Wilmington Signal System Construction Notes Phase 2		
	Division 03 New Hanover County Wilmington		
PLAN DATE: July 2008	REVIEWED BY: MRC/DLJ		SIGNATURE: <i>Lisa M. Moon</i> DATE: 7-23-08
PREPARED BY: LMM	REVIEWED BY:		
SCALE: NONE	REVISIONS:	INIT.:	DATE:

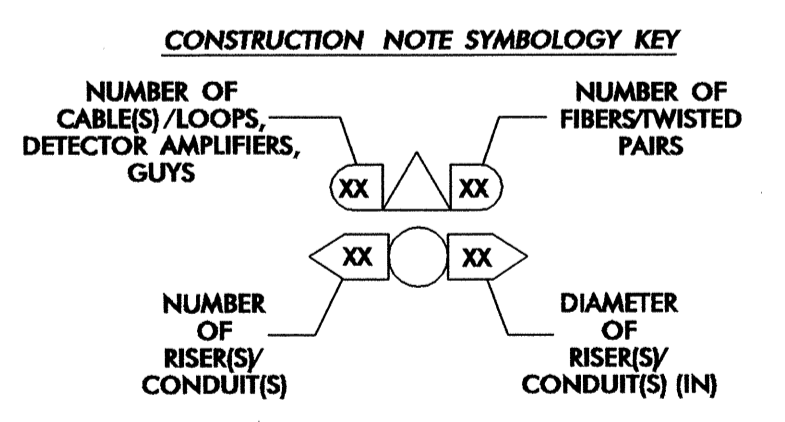
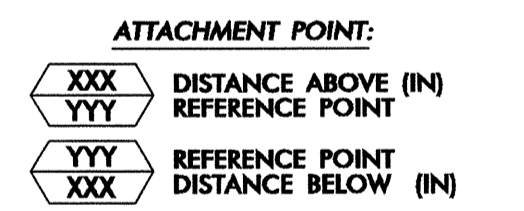
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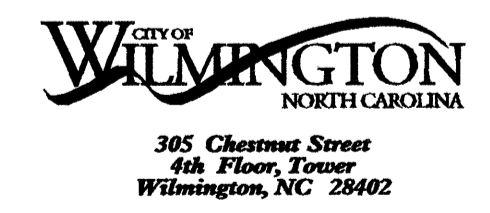
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This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Project Development and Environmental Analysis Branch - Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.



Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

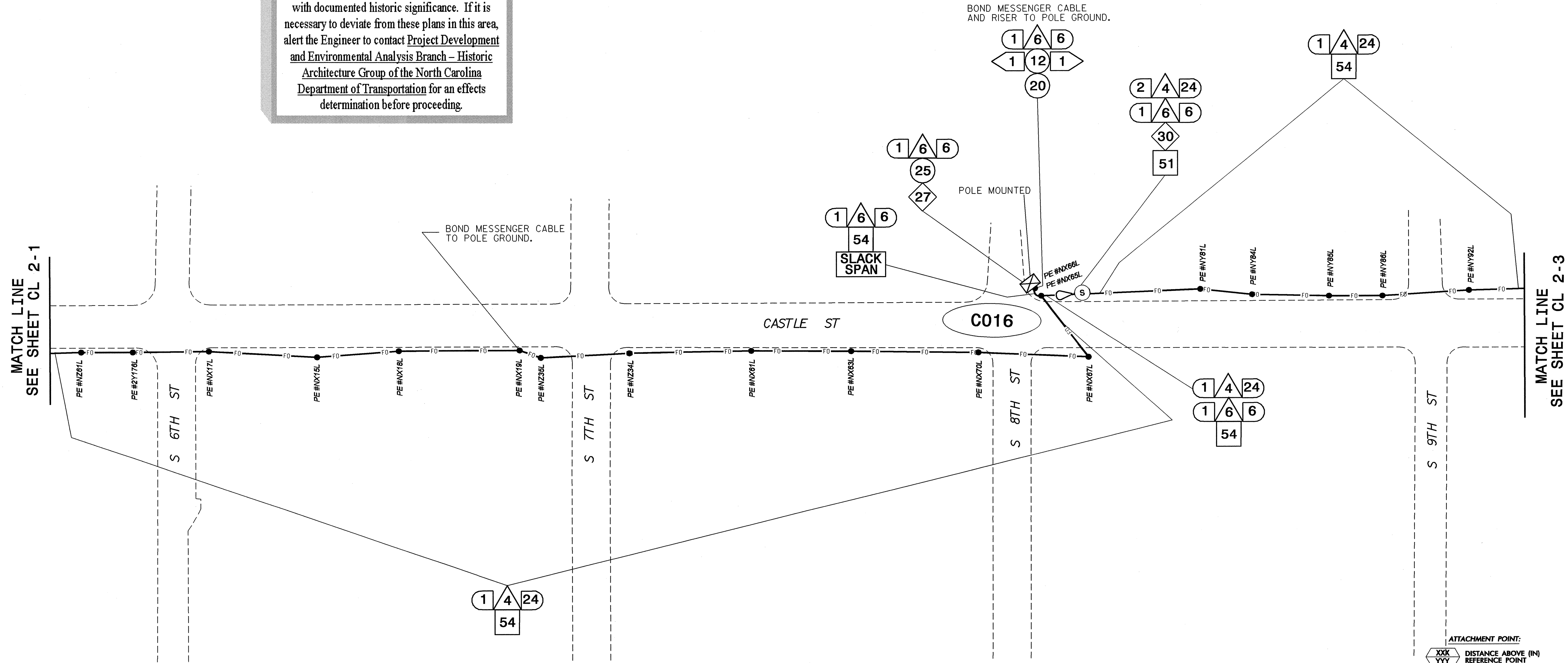
REVISIONS	INIT.	DATE

750 Greenfield Parkway, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
JULIA M. MOON
022516
DATE: 7-23-08
SIGNATURE: [Signature]
CL 2-001.DGN

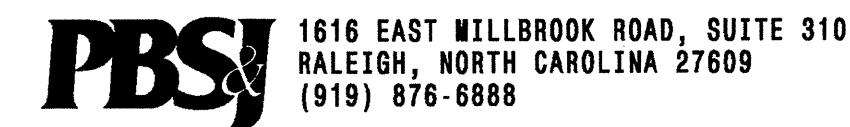
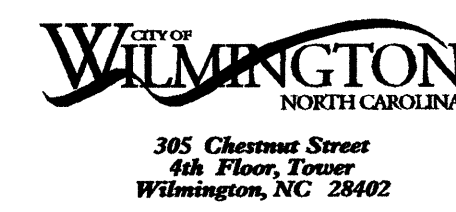
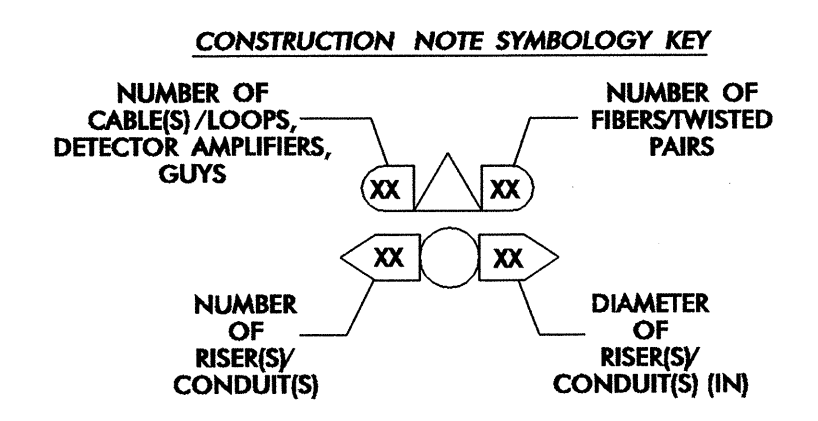
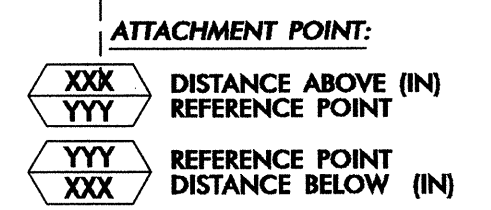
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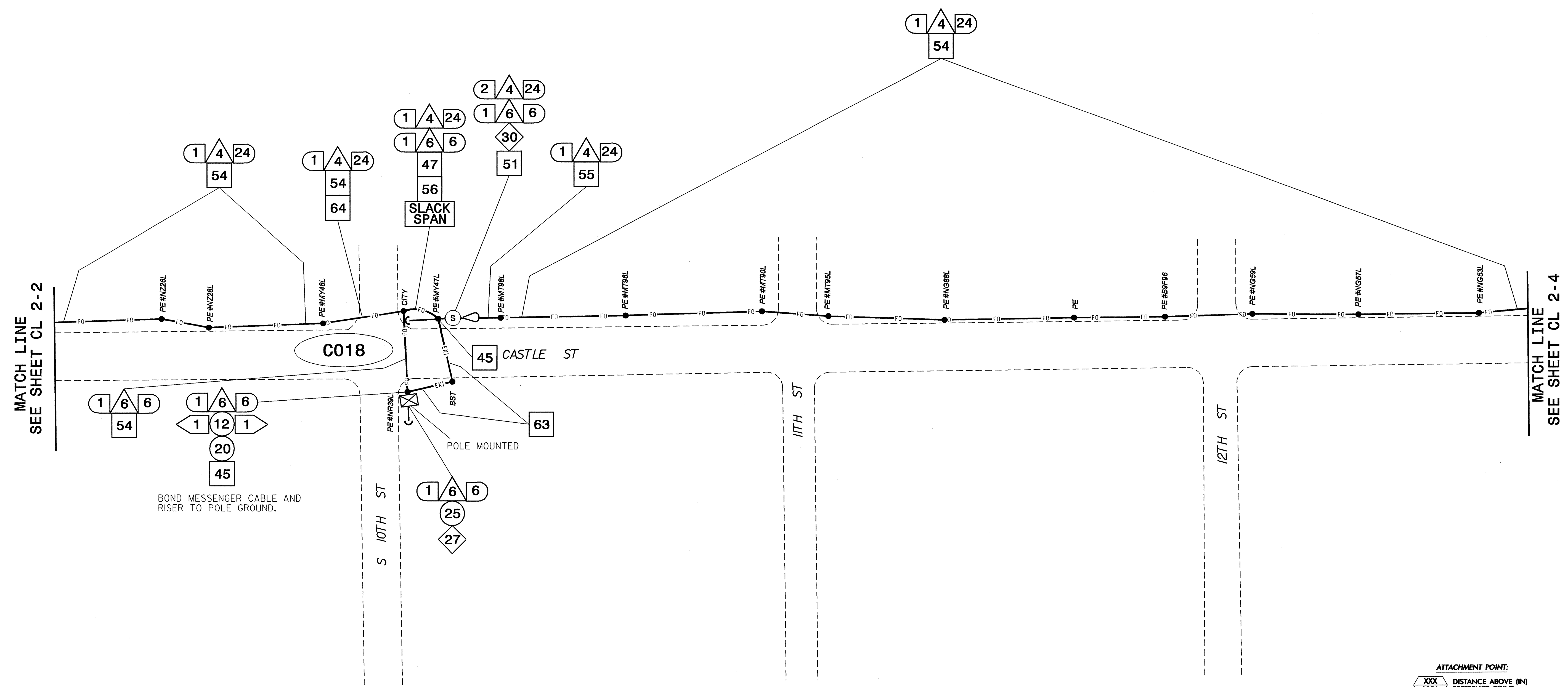
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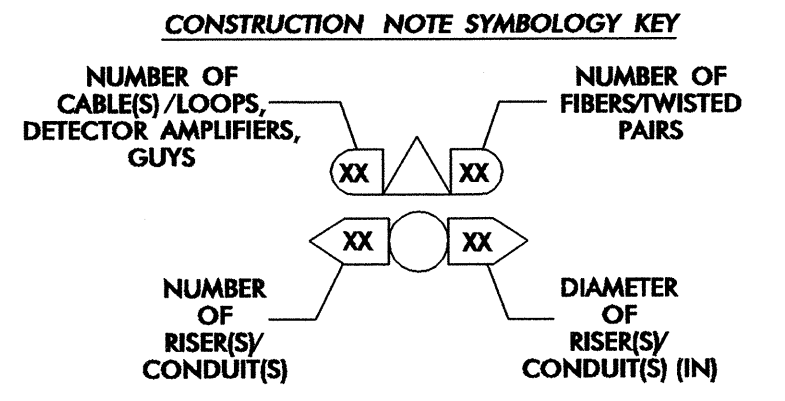
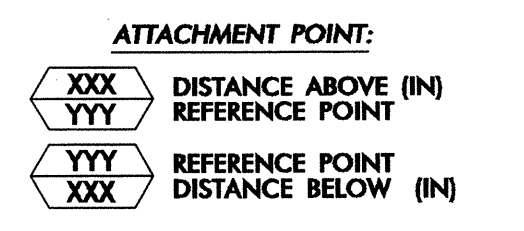
Prepared for the Office of:
Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 REVISIONS: _____ INIT. DATE: _____

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

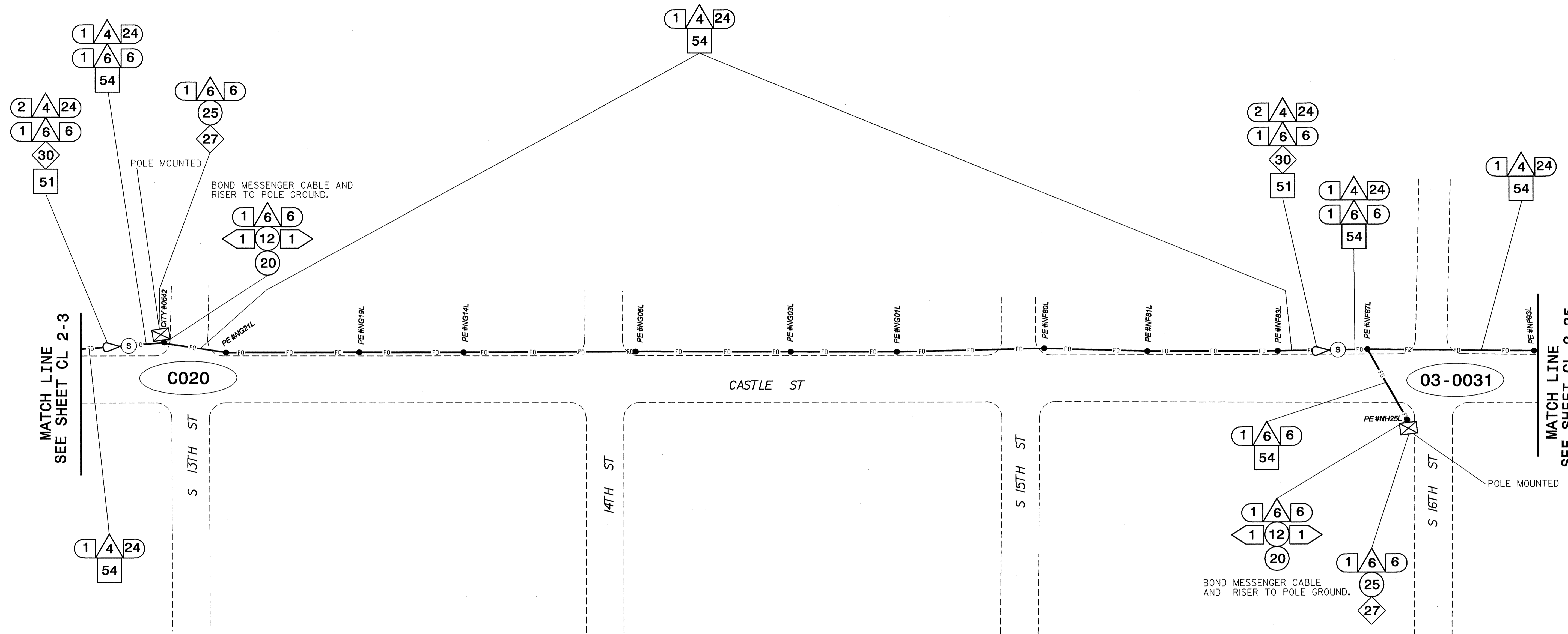
REVISIONS: _____ INIT. DATE

Signature: Lisa M. Moon 7-23-08

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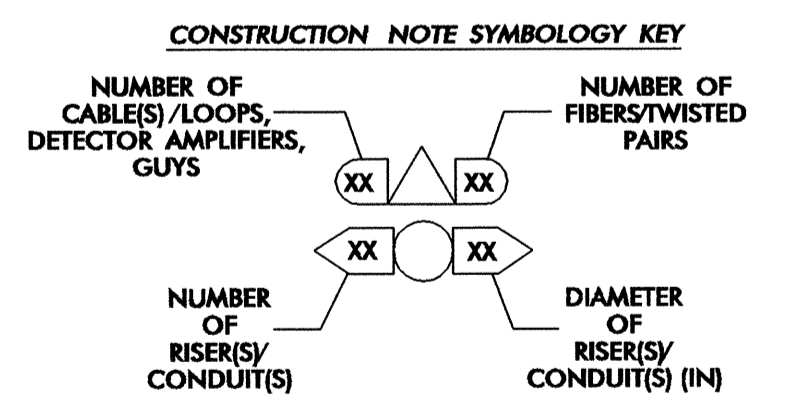
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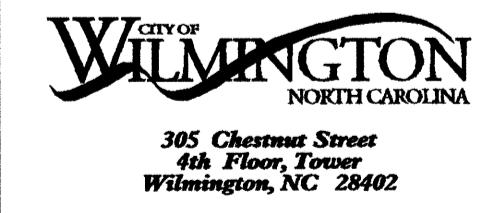
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 ZZZ REFERENCE POINT
 XXX DISTANCE BELOW (IN)



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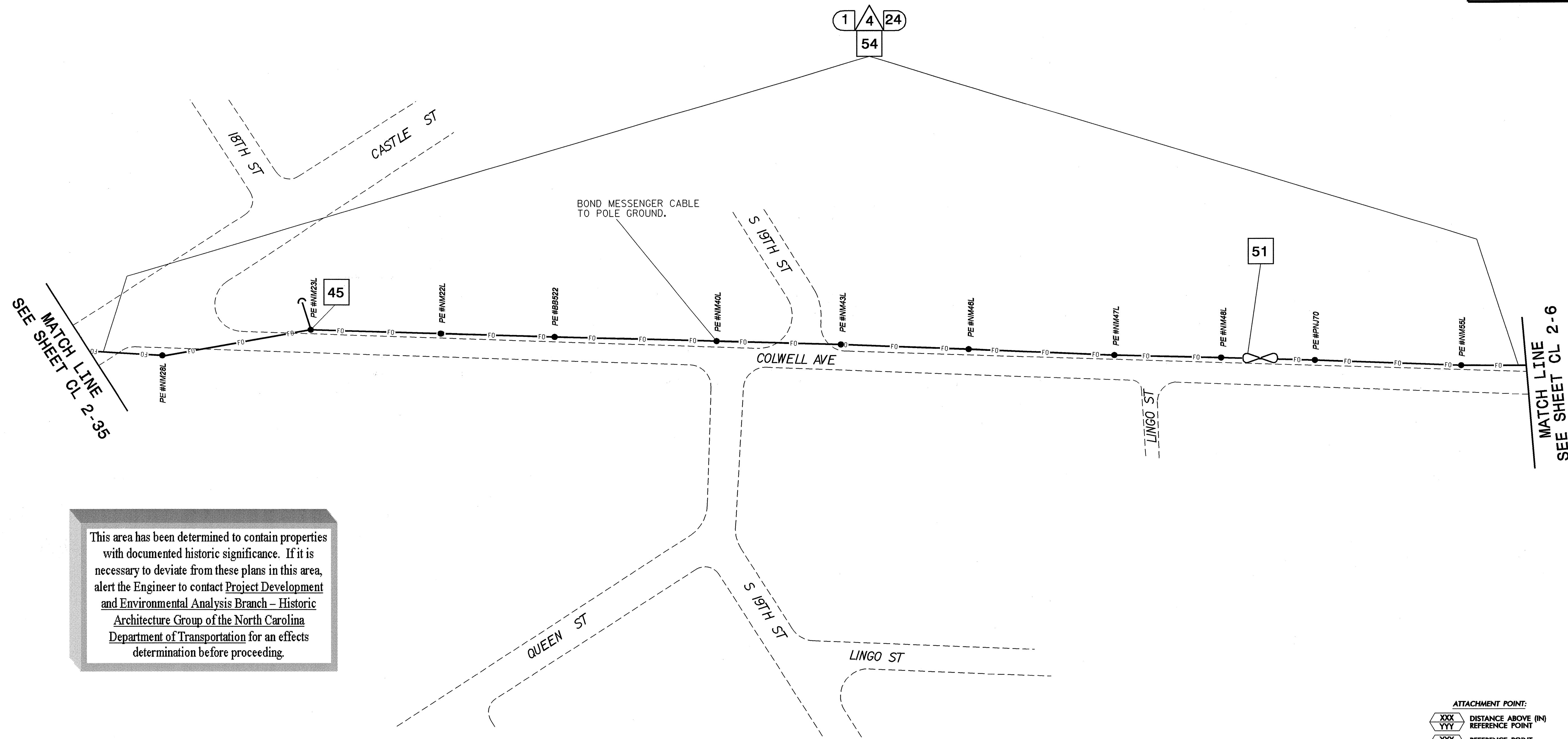


PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:
Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney
 REVISIONS: _____ INIT. DATE: _____

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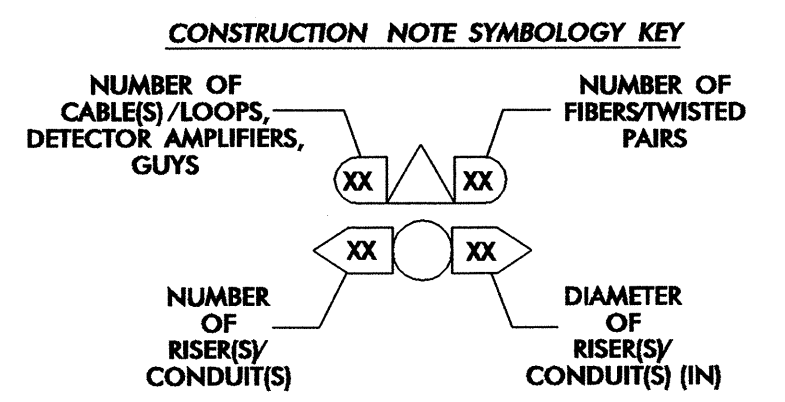
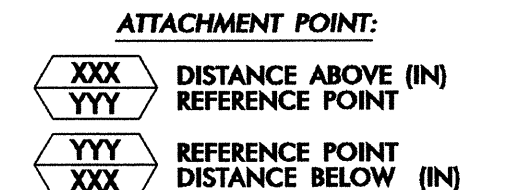


This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Project Development and Environmental Analysis Branch - Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.

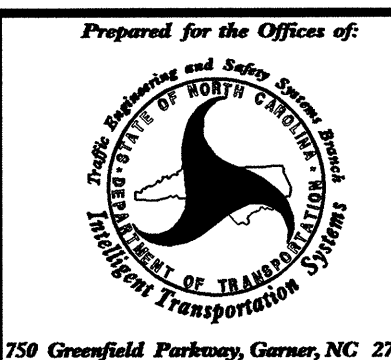
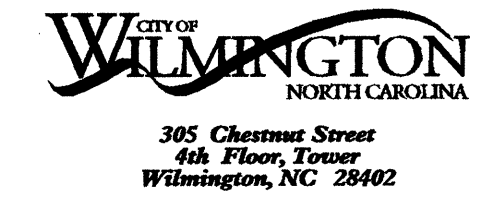
MATCH LINE
SEE SHEET CL 2-6

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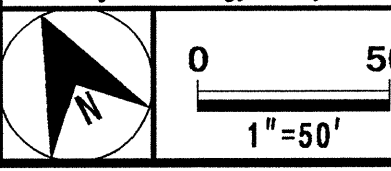
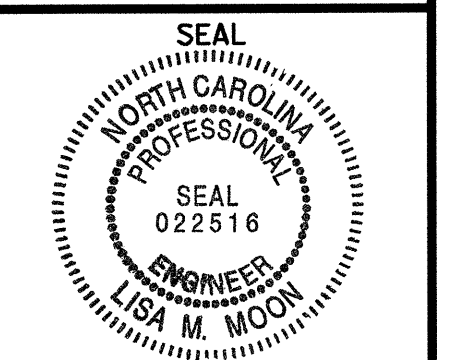


Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

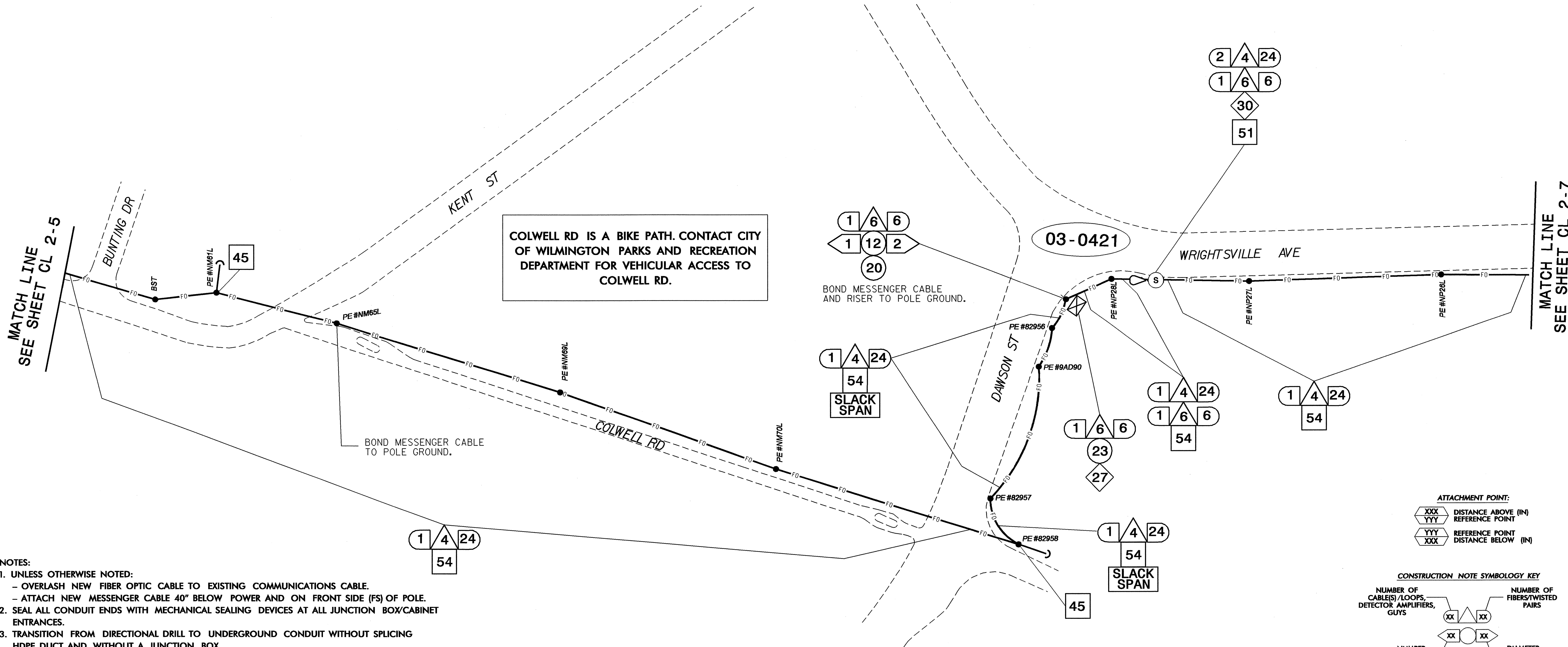
PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney



REVISIONS	INIT.	DATE

Signature: *Lisa M. Moon* 7.23.08
DATE: 7.23.08
CADD Filename: CL 2-005.DGN

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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOGY KEY

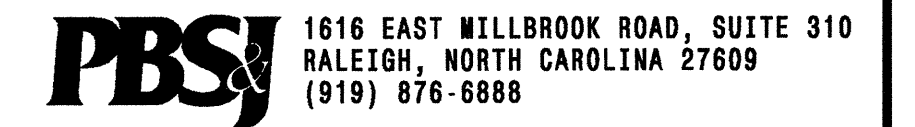
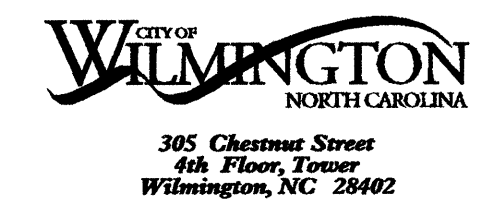
NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS:

NUMBER OF FIBERS/TWISTED PAIRS:

NUMBER OF RISER(S)/CONDUIT(S):

DIAMETER OF RISER(S)/CONDUIT(S) (IN):

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Prepared for the Offices of:

 250 Greenfield Parkway, Garner, NC 27529

Wilmington Signal System Cable Layout Plans Phase 2

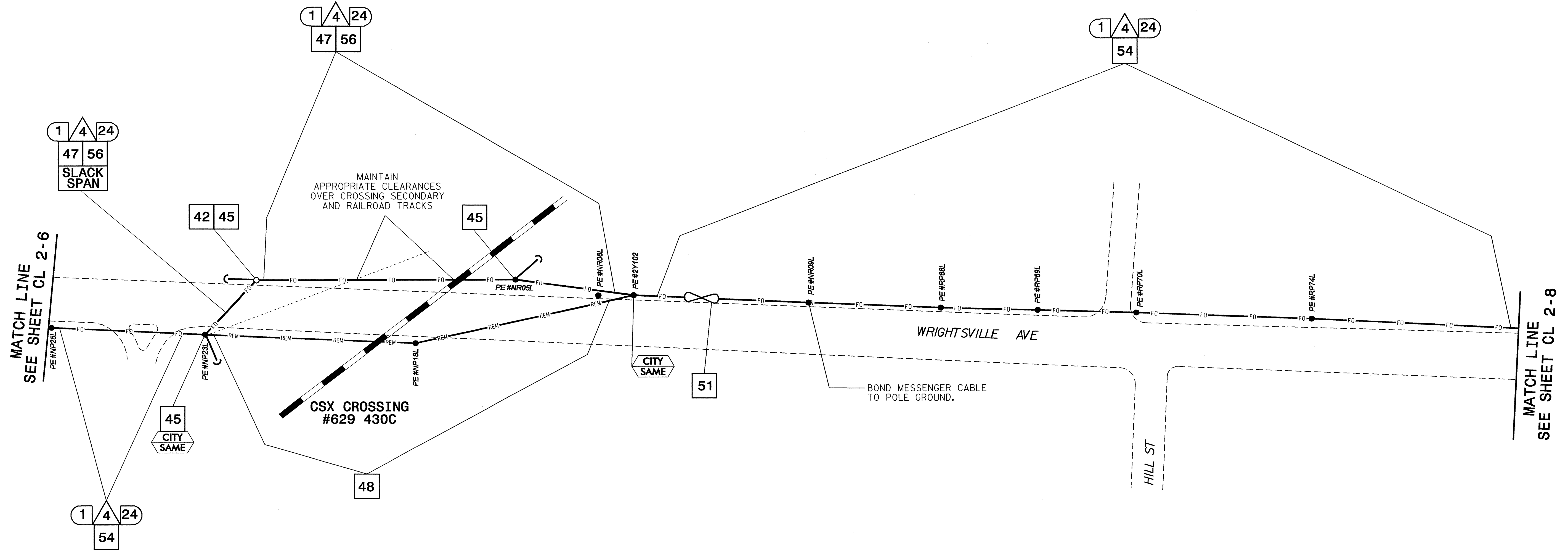
Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

REVISIONS: _____ INIT. DATE _____

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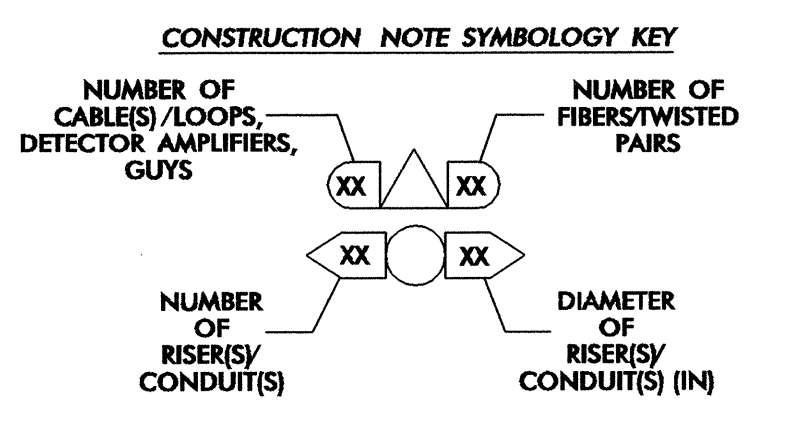
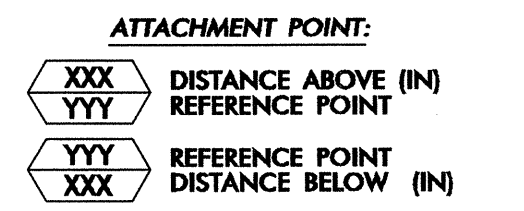
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 DATE: 7-23-08
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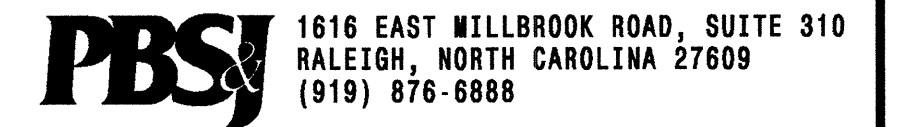
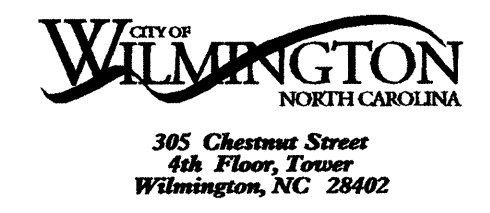


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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

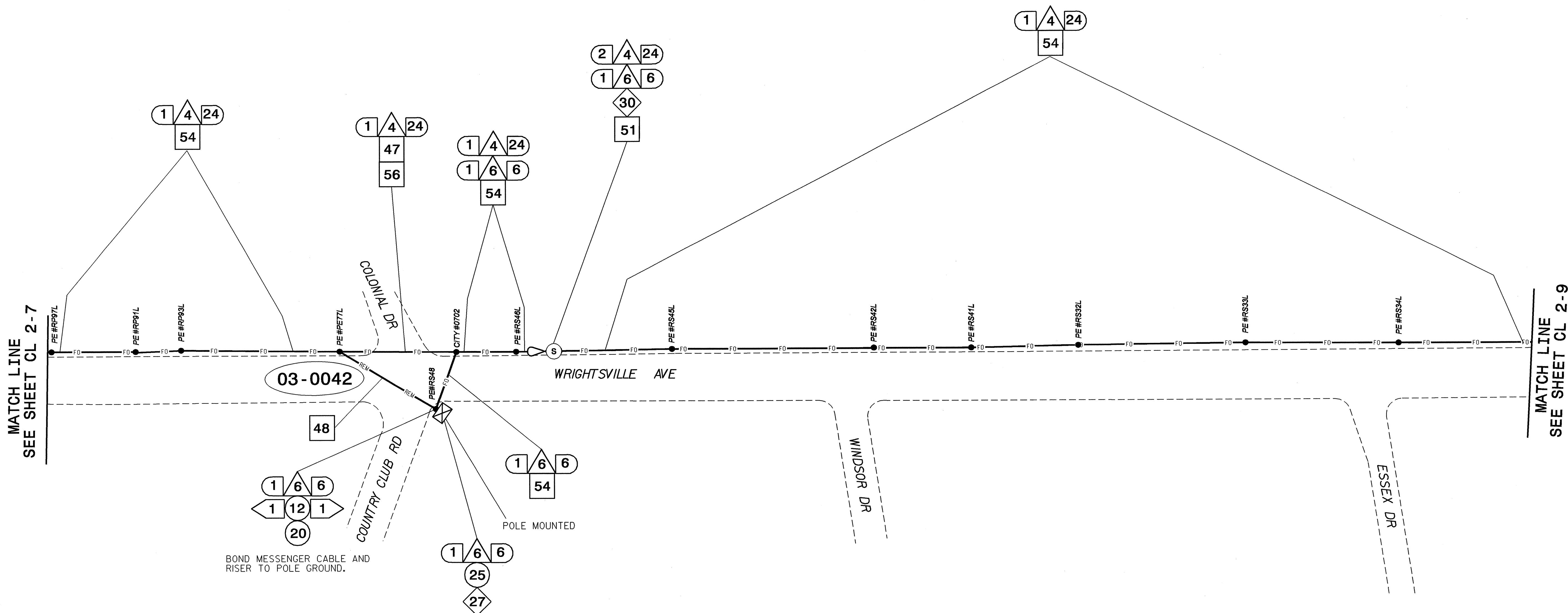
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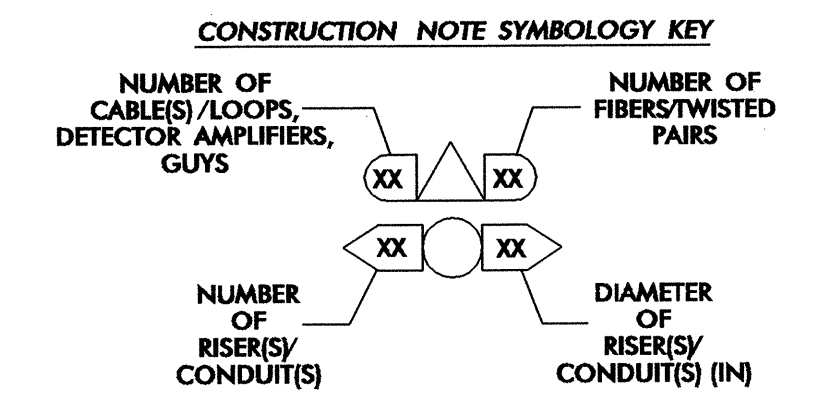
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BOND MESSENGER CABLE AND RISER TO POLE GROUND.

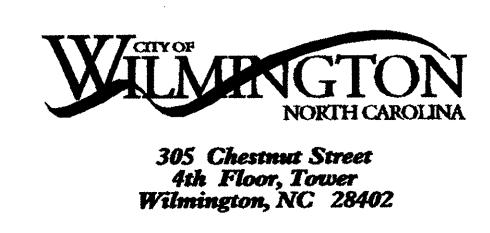
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 YYY REFERENCE POINT
 YYY REFERENCE POINT
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Prepared for the Office of:
 City of Wilmington
 Department of Transportation

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

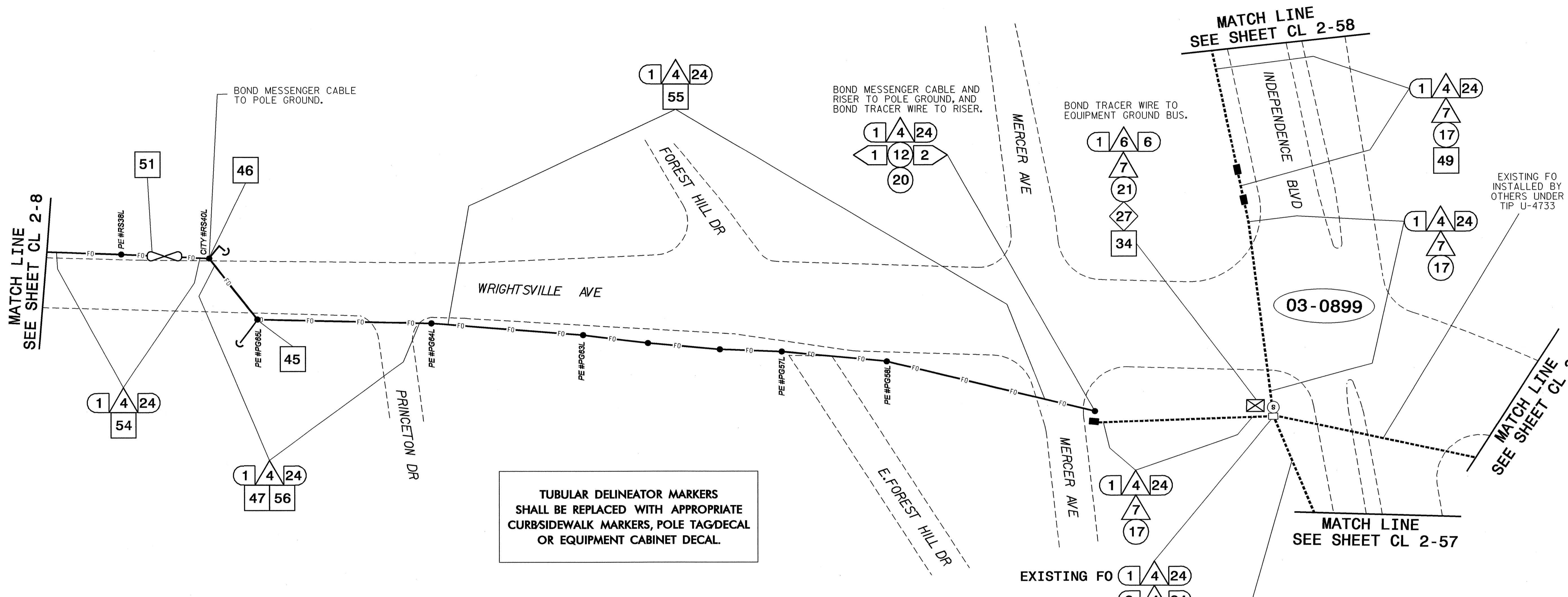
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 LISA M. MOON

Signature: Lisa M. Moon 7-23-08
 DATE: 7-23-08
 CADD File name: CL 2-008.DGN

REVISIONS: _____ INIT. DATE

Scale: 1" = 50'

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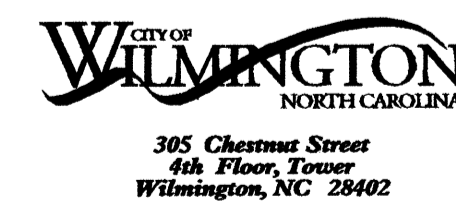
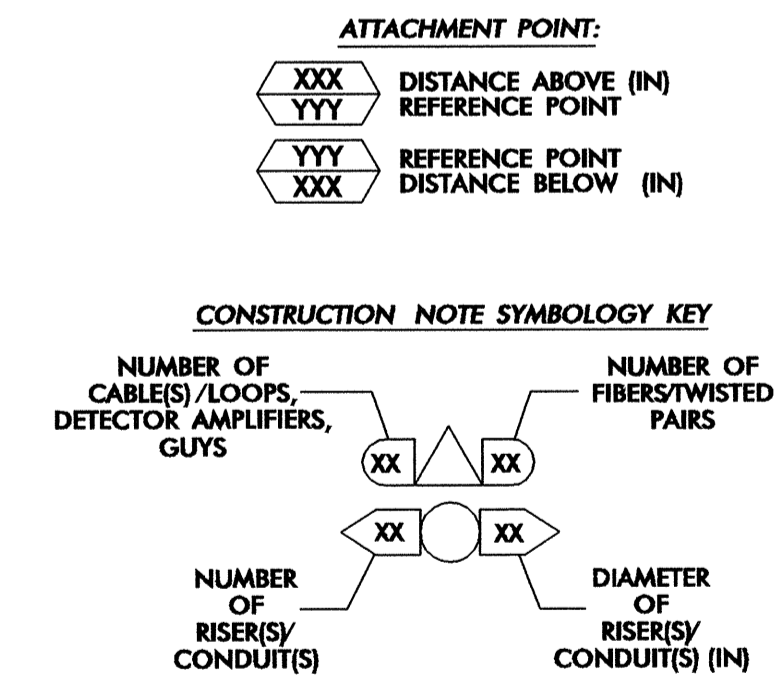


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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888

Prepared for the Offices of:

City of Wilmington

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

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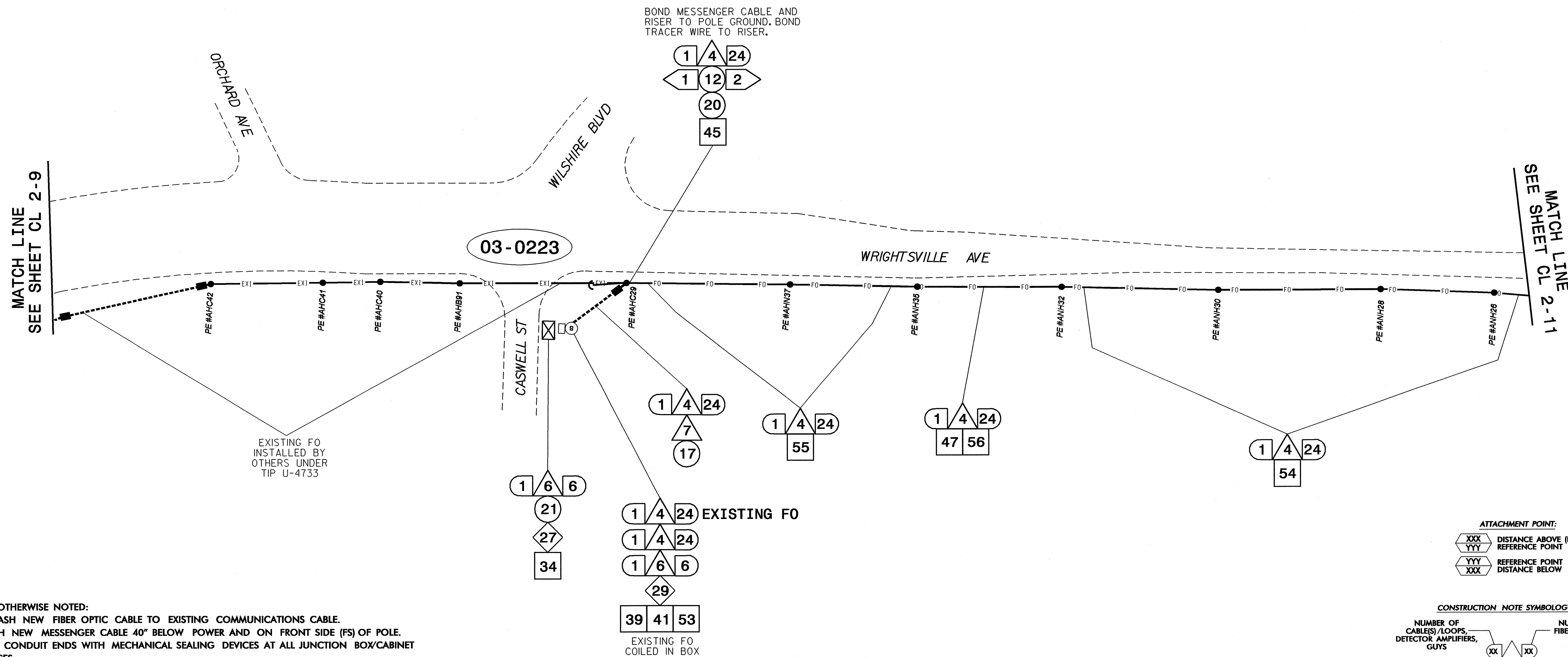
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 022516 LISA M. MOON DATE 7-23-08

CADD FILE NAME: CL 2-009.DGN

22-JUL-2008 12:17 G:\REG\Curr\280337-01 - Wilmington Sig Sys\CRPHASE 2\CL2-009.dgn 13833

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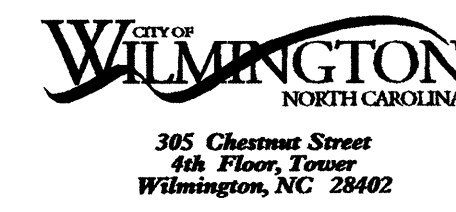
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PBS 1616 EAST MILLBROOK ROAD, SUITE 310
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

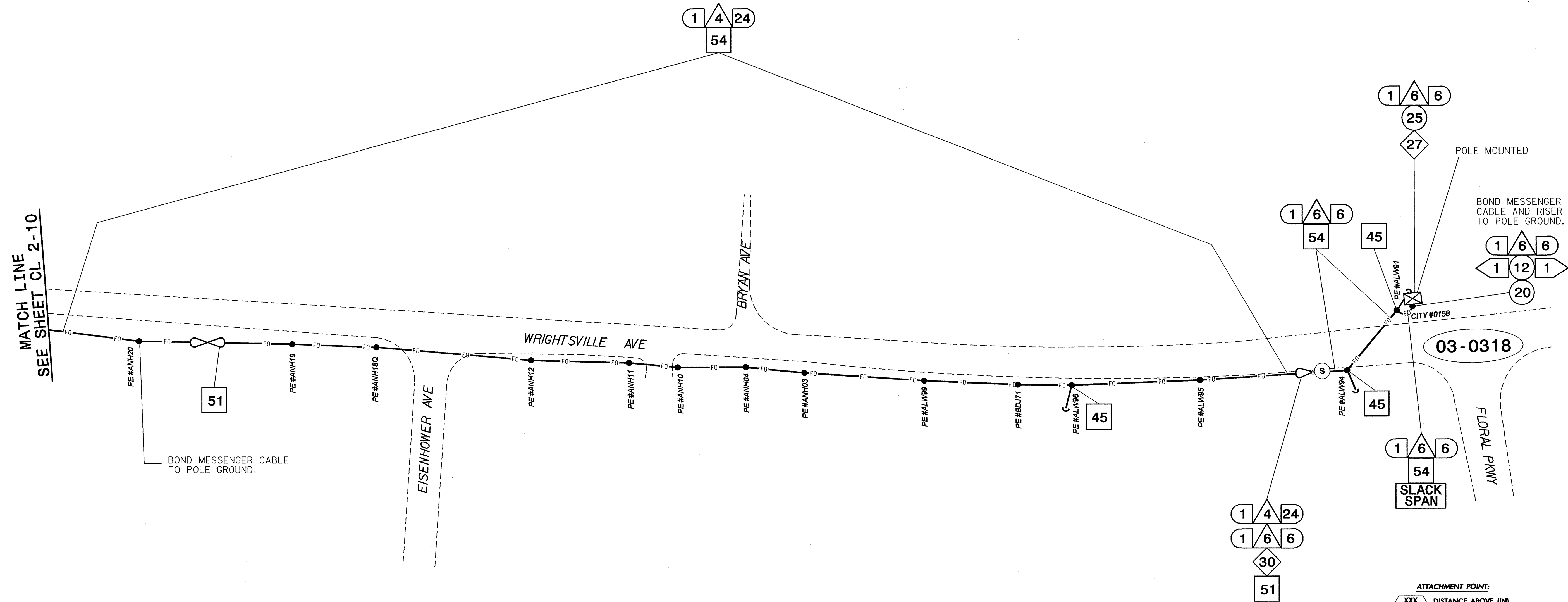
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER 022516 LISA M. MOON

Signature: Lisa M. Moon 7-23-08 DATE

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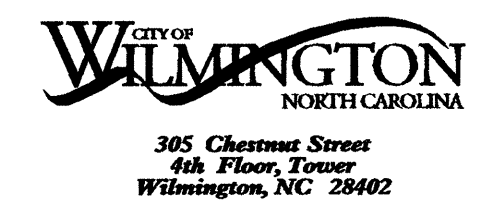
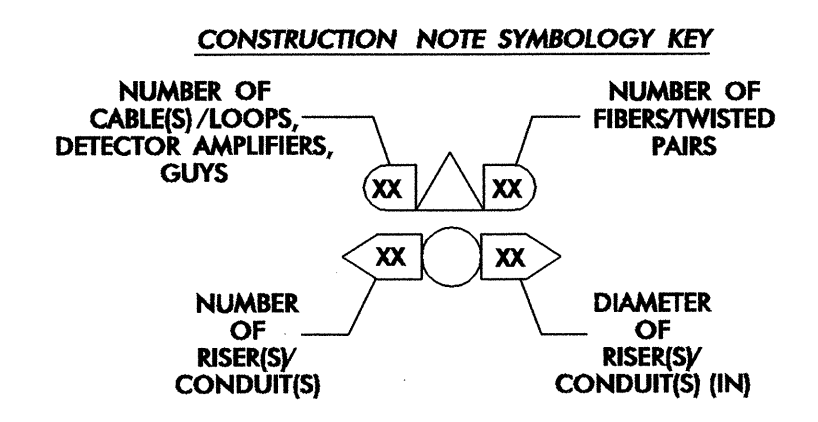


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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

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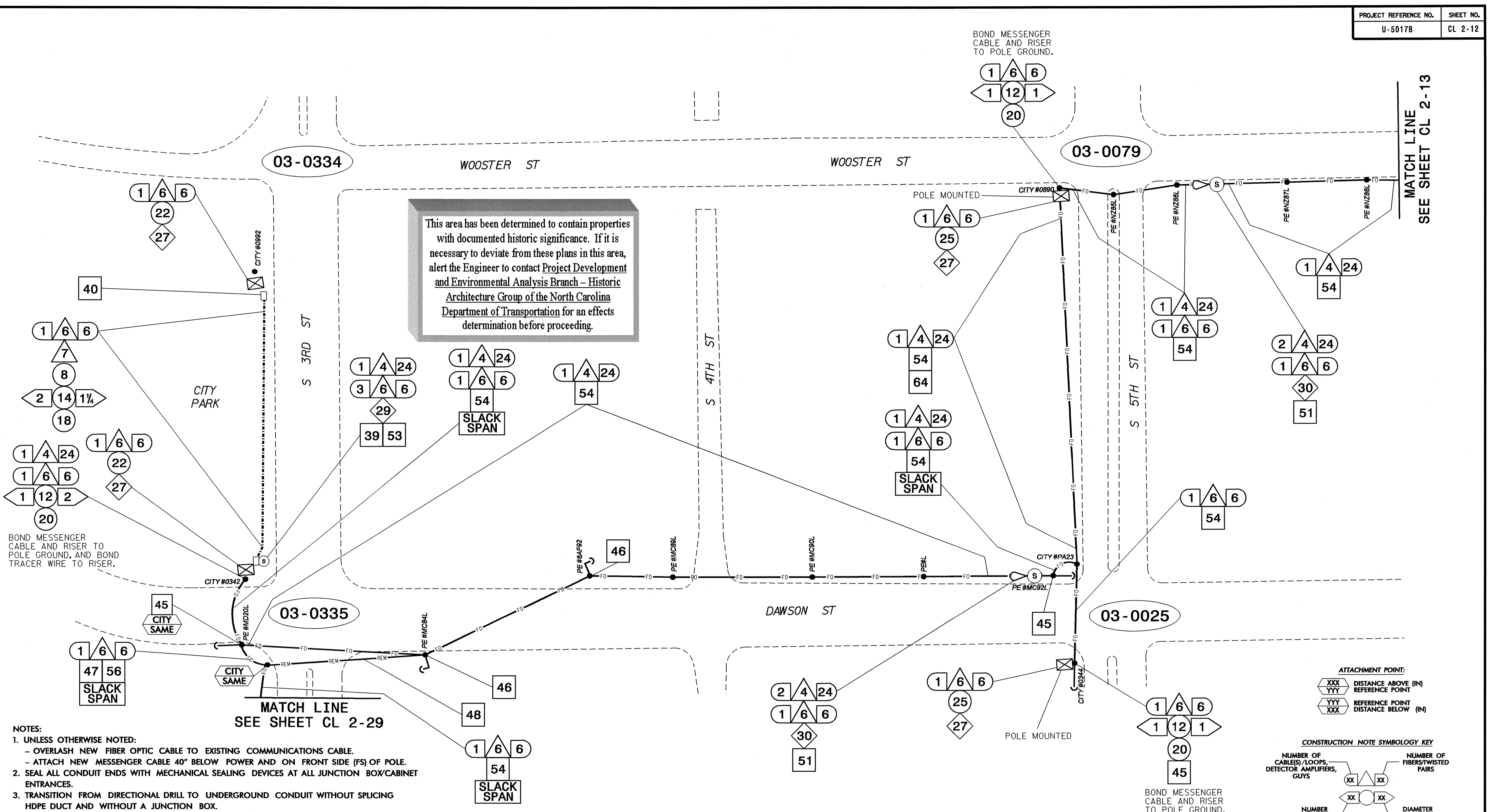
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750 Greenfield Parkway, Garner, NC 27529

0 50
1" = 50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 LISA M. MOON
 7-23-08
 DATE

CADD F116100002:CL 2-011.DGN



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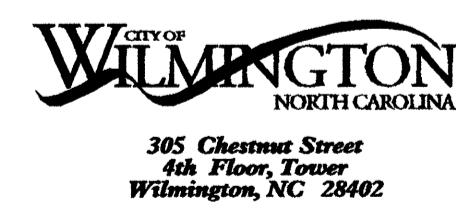
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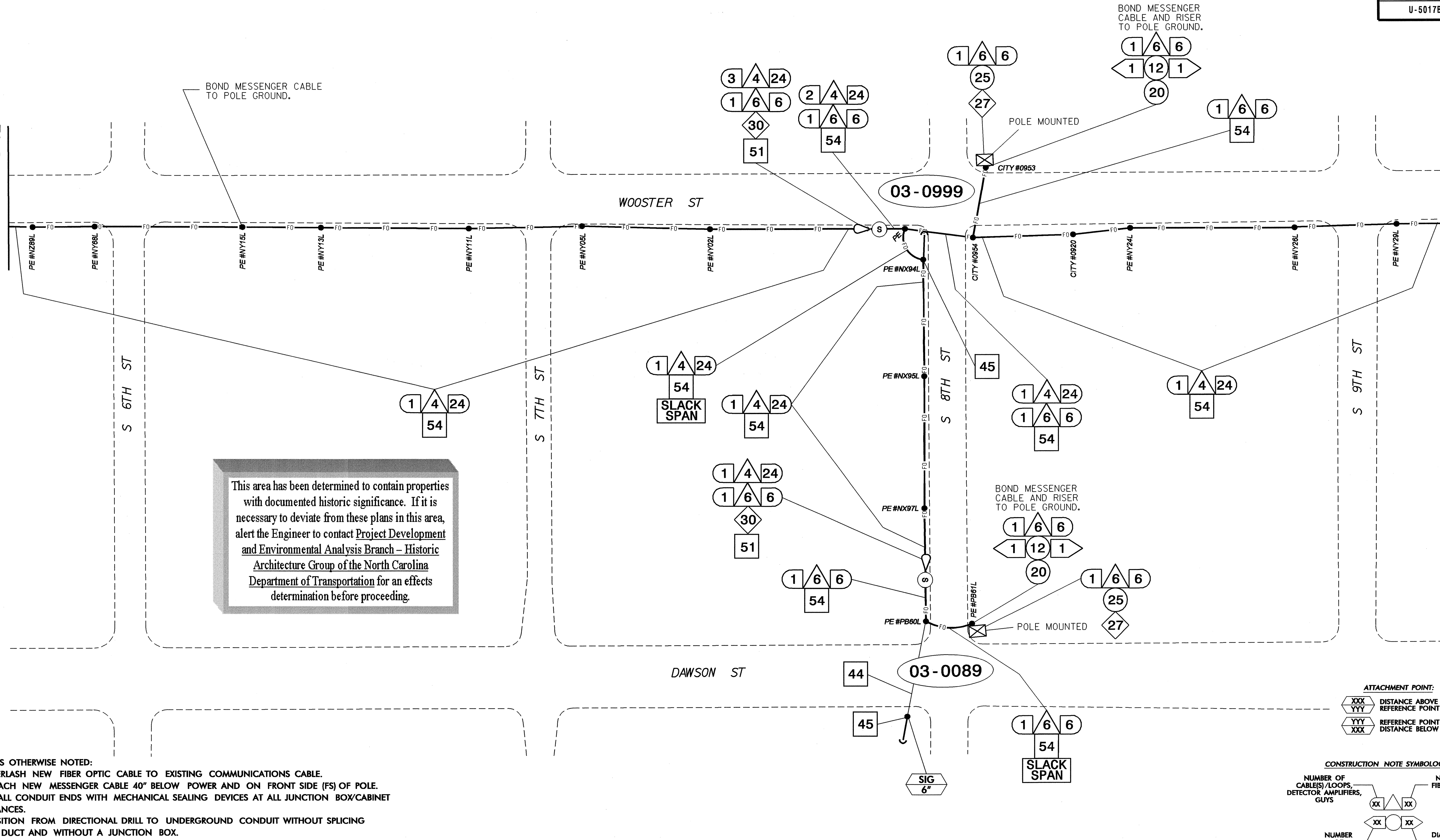
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 LISA M. MOON
 DATE 7-23-08
 SIGNATURE
 CAD P110908: CL 2-012.DGN

21-AUG-2008 08:48: G:\LEG\CURR\280337.01 - Wilmington Sfg Sys\CR\PHASE 2\CL2-012.dgn 18566

MATCH LINE
SEE SHEET CL 2-12

MATCH LINE
SEE SHEET CL 2-14



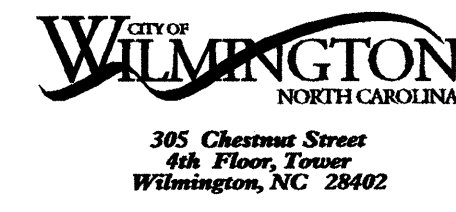
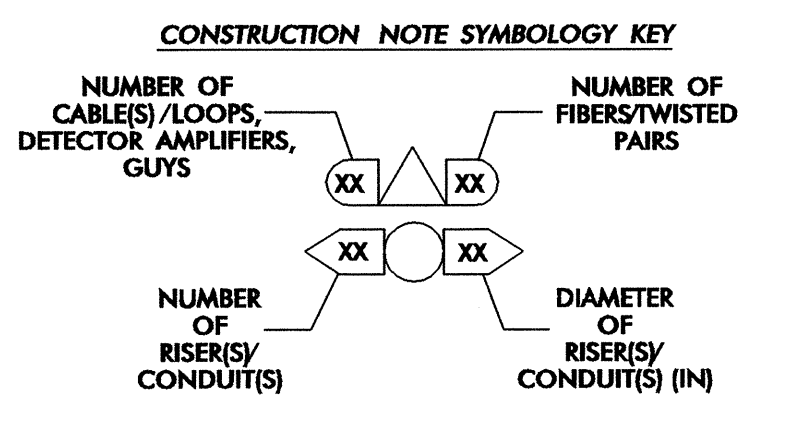
This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Project Development and Environmental Analysis Branch - Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.

NOTES:

- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENDS WITH MECHANICAL SEALING DEVICES AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

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2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13. INSTALL HEAT SHRINK TUBING RETROFIT KIT	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35. REMOVE EXISTING CCTV CAMERA ASSEMBLY	46. INSTALL SIDEWALK GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4. INSTALL SMFO CABLE	15. DIRECTIONAL DRILL CONDUIT	26. INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37. INSTALL CCTV CAMERA WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59. INSTALL NEW POLE MOUNTED CCTV CABINET
5. INSTALL COAXIAL CABLE	16. BORE AND JACK CONDUIT	27. INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49. REMOVE EXISTING COMMUNICATIONS CABLE	60. INSTALL OMNI-DIRECTIONAL ANTENNA
6. INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17. INSTALL CABLE(S) IN EXISTING CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPlice CABLE IN CABINET	39. INSTALL SPECIAL-SIZED JUNCTION BOX	50. INSTALL TELEPHONE SERVICE	61. INSTALL 900MHZ RADIO
7. INSTALL TRACER WIRE	18. INSTALL CABLE(S) IN NEW CONDUIT	29. INSTALL UNDERGROUND SPlice ENCLOSURE	40. INSTALL OVERSIZED JUNCTION BOX	51. INSTALL CABLE STORAGE RACK(S) (SNOW SHOE(S)) AND STORE 100 FEET OF CABLE	62. INSTALL DIRECTIONAL ANTENNA
8. INSTALL CONDUIT UNDERGROUND	19. INSTALL CABLE(S) IN EXISTING RISER(S)	30. INSTALL AERIAL SPlice ENCLOSURE	41. REMOVE EXISTING JUNCTION BOX	52. INSTALL SERVICE POLE	63. MAINTAIN EXISTING COMMUNICATION CABLE(S)
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10. INSTALL RIGID, GALVANIZED STEEL CONDUIT	21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	32. NOT USED	43. REMOVE EXISTING WOOD POLE	54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



PBS 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

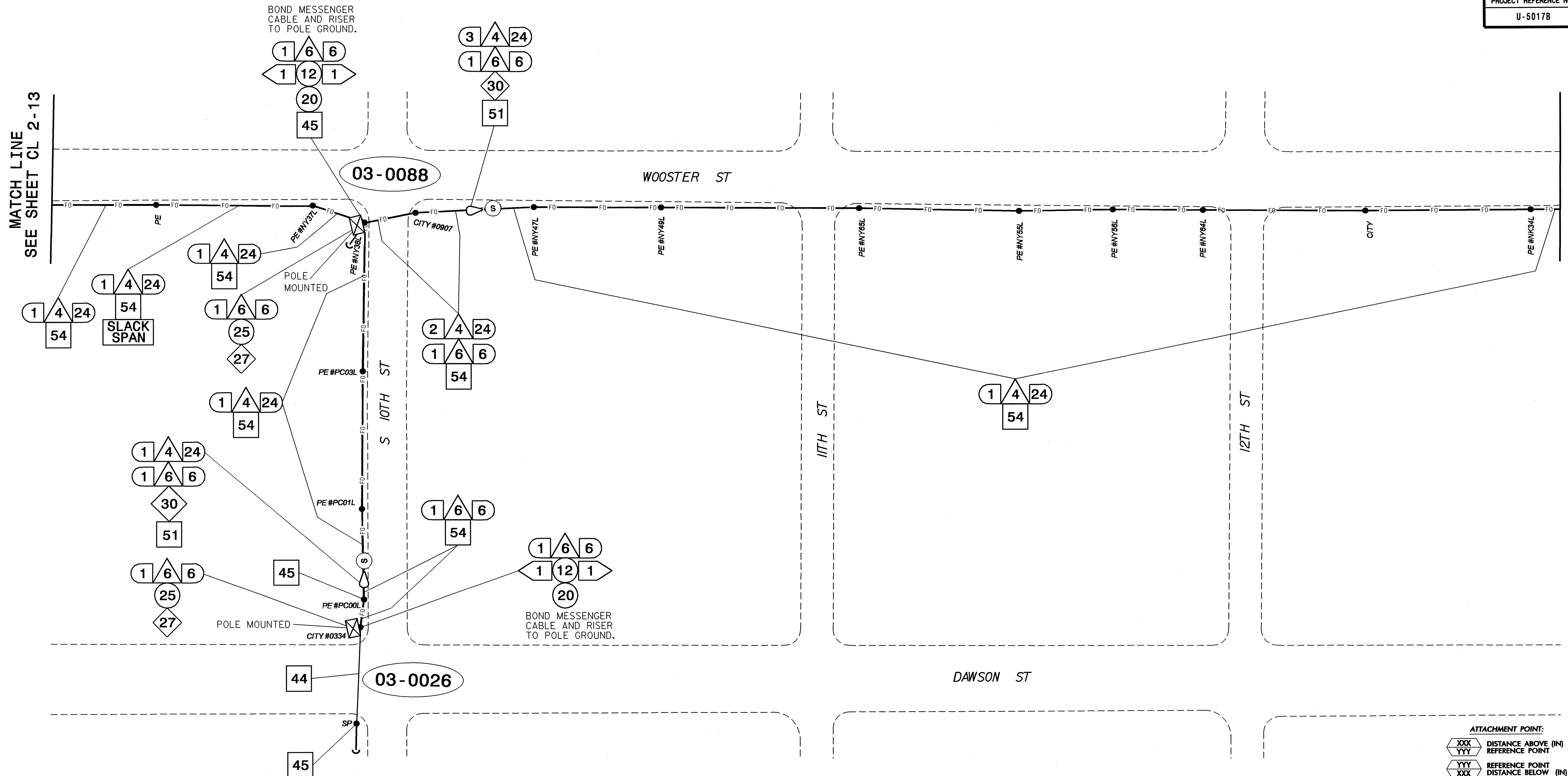
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750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

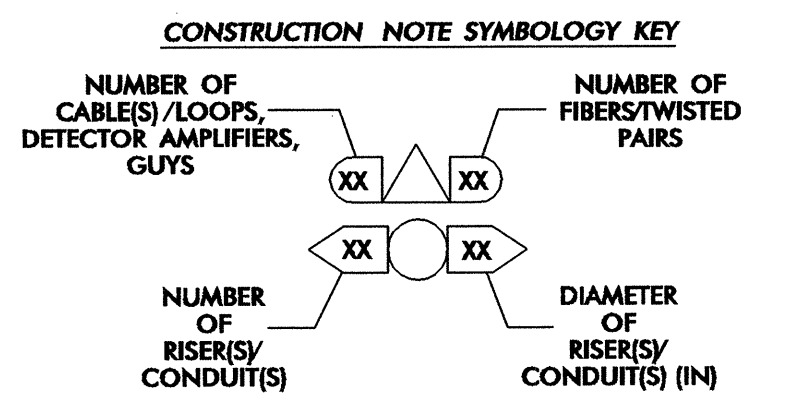
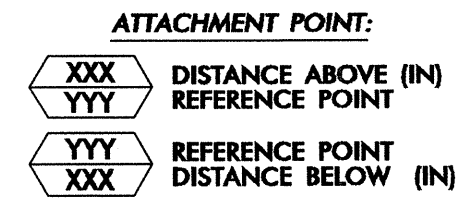
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SEAL
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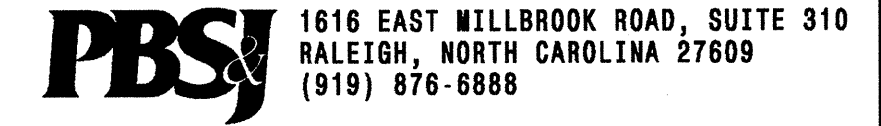
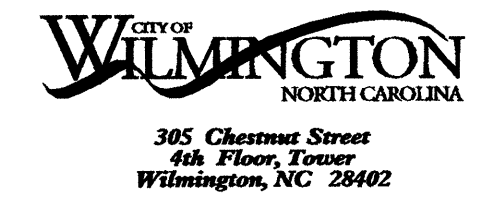


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Prepared for the Office of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

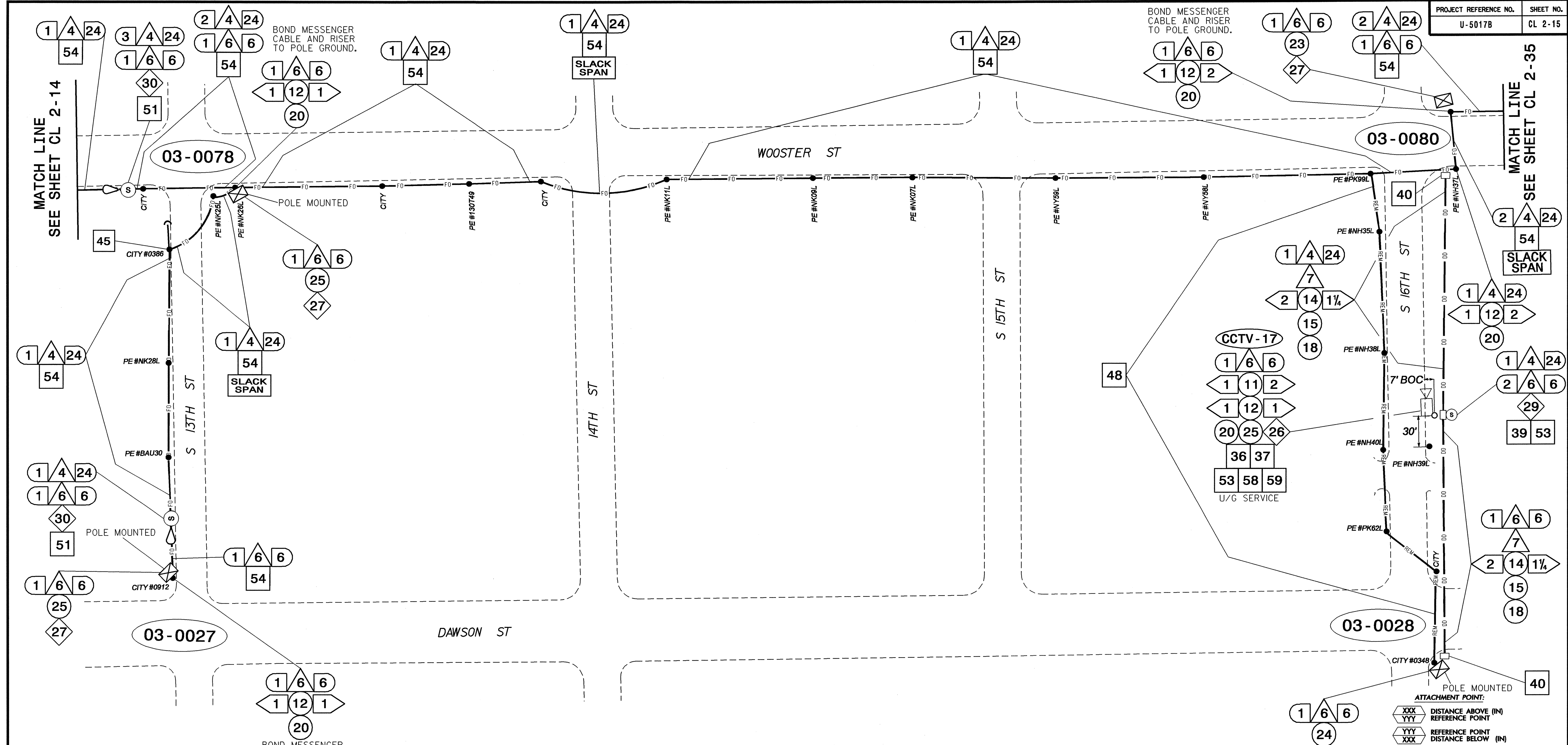
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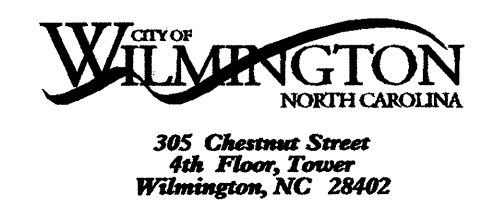
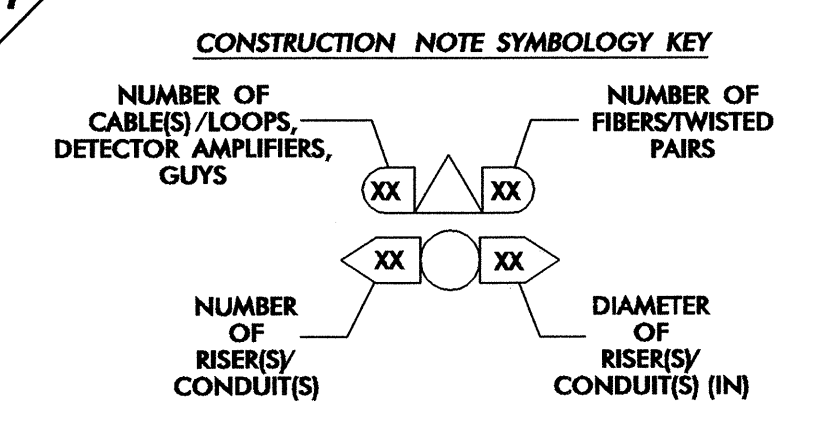
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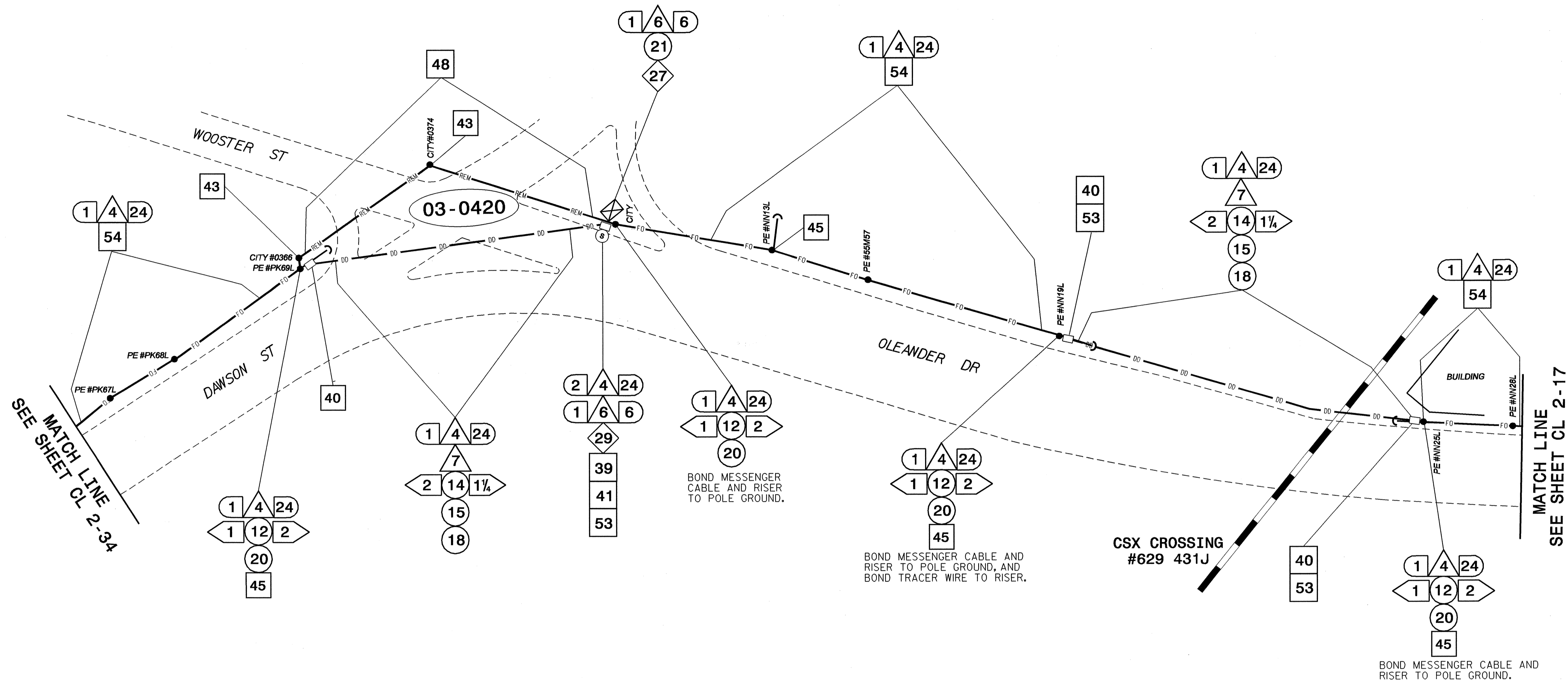
PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

Signature: *Lisa M. Moon* 7-23-08
DATE: _____
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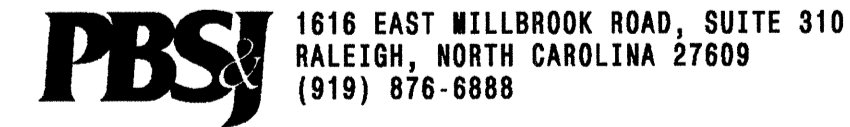
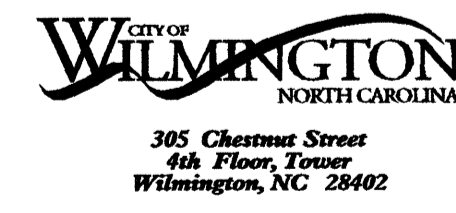
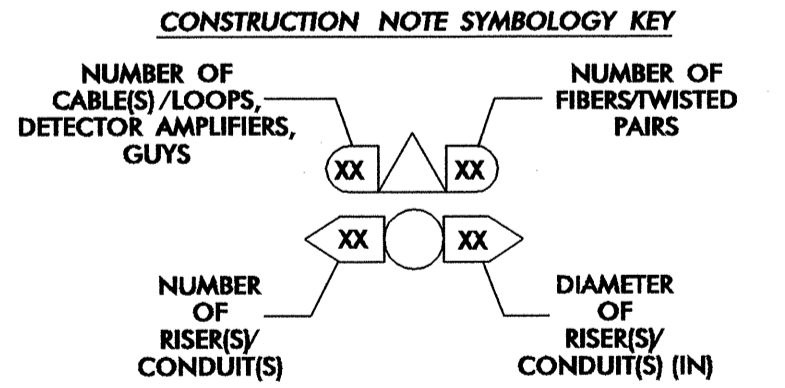
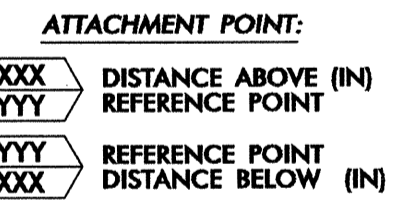
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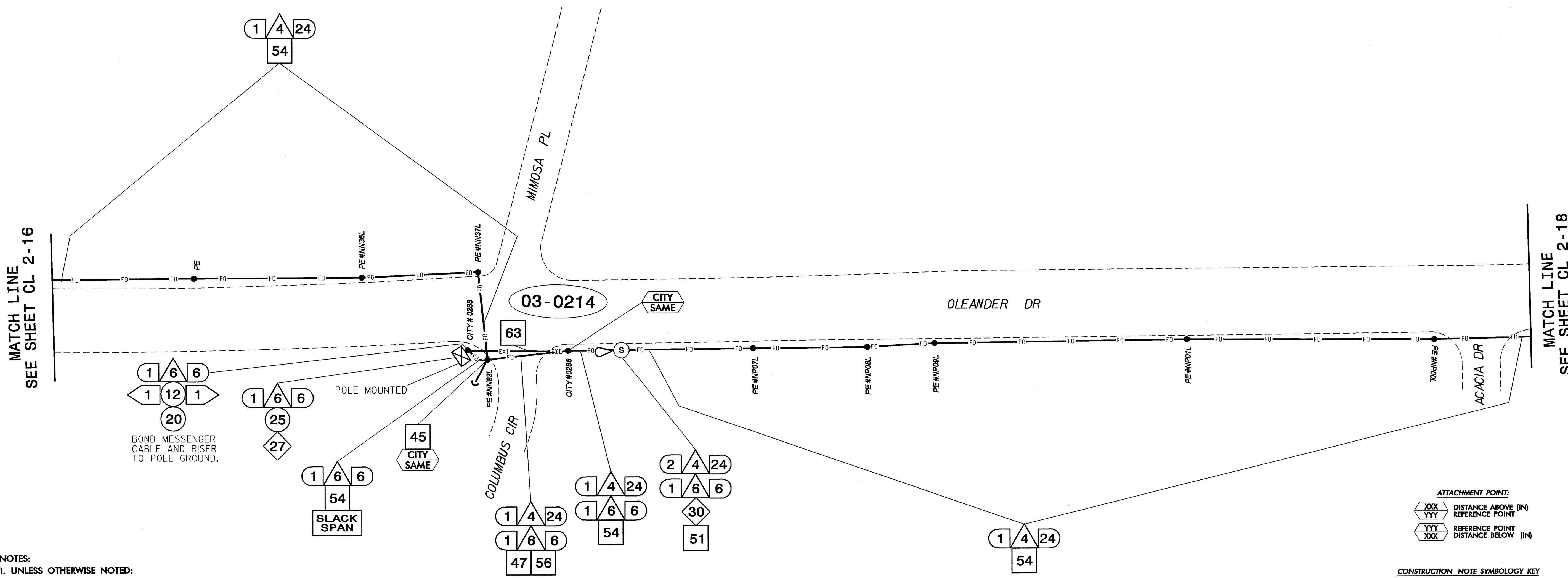
750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

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1"=50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
022518
7-23-08
SIGNATURE DATE
CAD FILE NAME: CL 2-016.DGN

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MATCH LINE
SEE SHEET CL 2-16

MATCH LINE
SEE SHEET CL 2-18

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ATTACHMENT POINT:

XXX DISTANCE ABOVE (IN)
YYY REFERENCE POINT

YYY REFERENCE POINT
XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS

NUMBER OF FIBERS/TWISTED PAIRS

NUMBER OF RISER(S)/CONDUIT(S)

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

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING RETROFIT KIT	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34. REMOVE EXISTING WIRELESS SYSTEM	45. INSTALL DOWN GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE
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6. INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17. INSTALL CABLE(S) IN EXISTING CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	39. INSTALL SPECIAL-SIZED JUNCTION BOX	50. INSTALL TELEPHONE SERVICE	61. INSTALL 900MHZ RADIO
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CITY OF WILMINGTON
NORTH CAROLINA
305 Chestnut Street
4th Floor, Tower
Wilmington, NC 28402

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RALEIGH, NORTH CAROLINA 27609
(919) 876-8888

Prepared for the Offices of:
WILMINGTON
NORTH CAROLINA
250 Greenfield Parkway, Garner, NC 27529

**Wilmington Signal System
Cable Layout Plans
Phase 2**

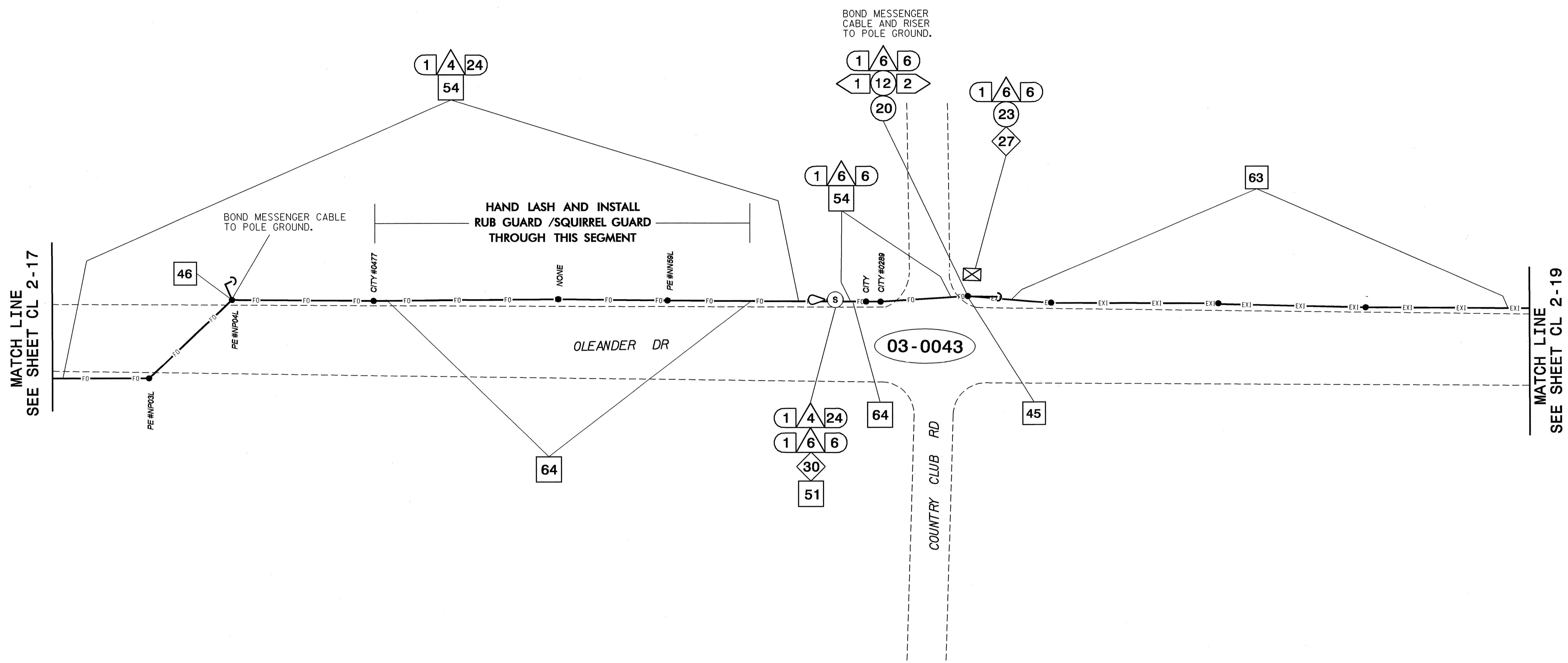
Division 03 New Hanover County Wilmington
PLAN DATE: July 2008 REVIEWED BY: DL Jones
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
LISA M. MOON
022516

REVISIONS
INIT. DATE

7/23/08
DATE

CADD File name: CL 2-017.DGN



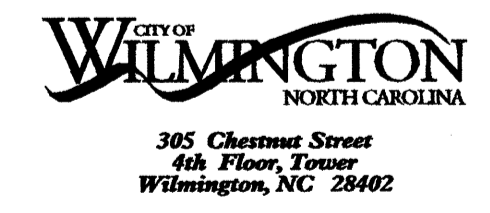
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ATTACHMENT POINT:
XXX
YYY DISTANCE ABOVE (IN) REFERENCE POINT
YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS	XX	NUMBER OF FIBERS/TWISTED PAIRS	XX
NUMBER OF RISERS/ CONDUIT(S)	XX	DIAMETER OF RISERS/ CONDUIT(S) (IN)	XX

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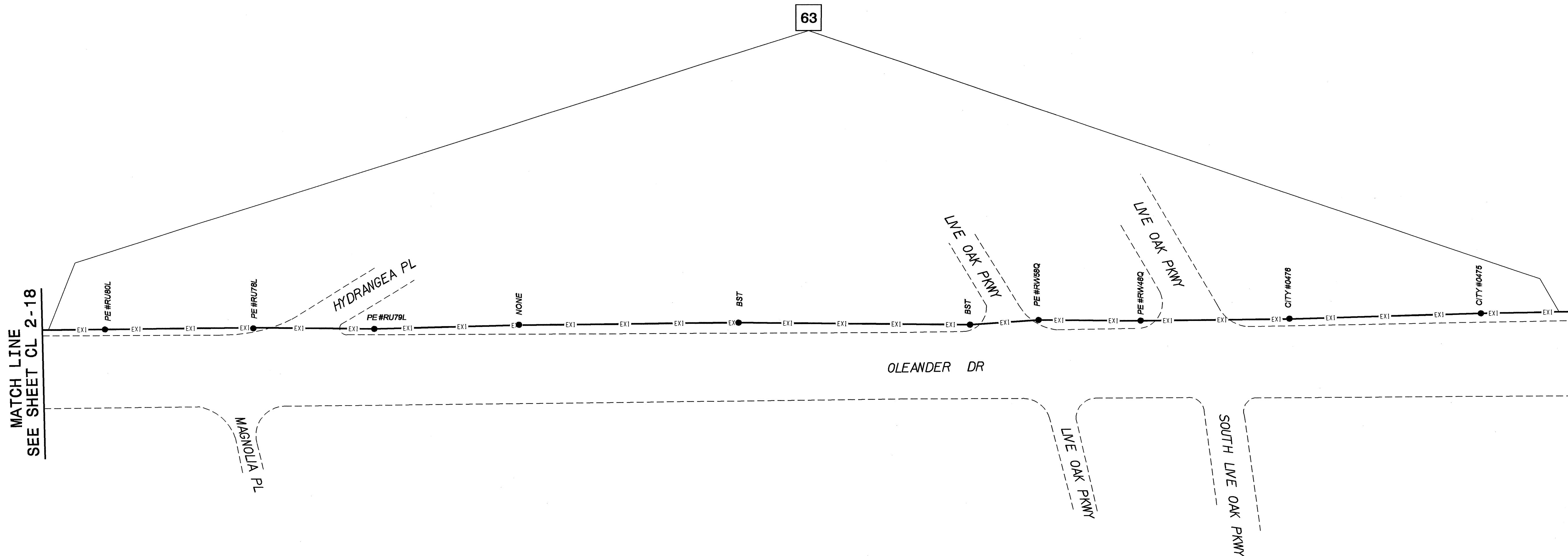
Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington
PLAN DATE: July 2008 REVIEWED BY: DL Jones
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

7-23-08
SIGNATURE DATE
CADD File name: CL 2-018.DGN

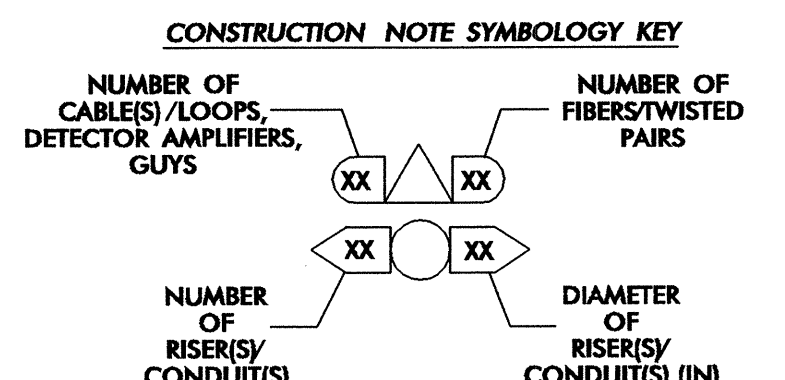
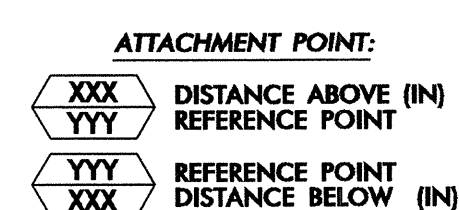


MATCH LINE
SEE SHEET CL 2-18

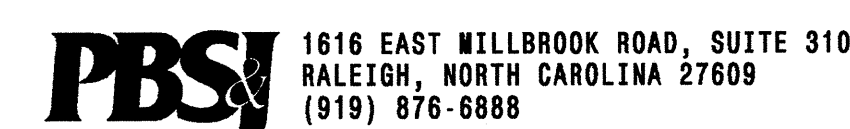
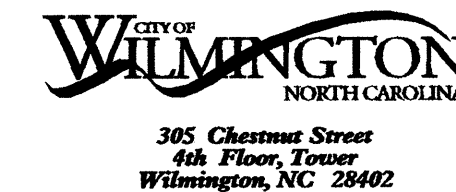
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

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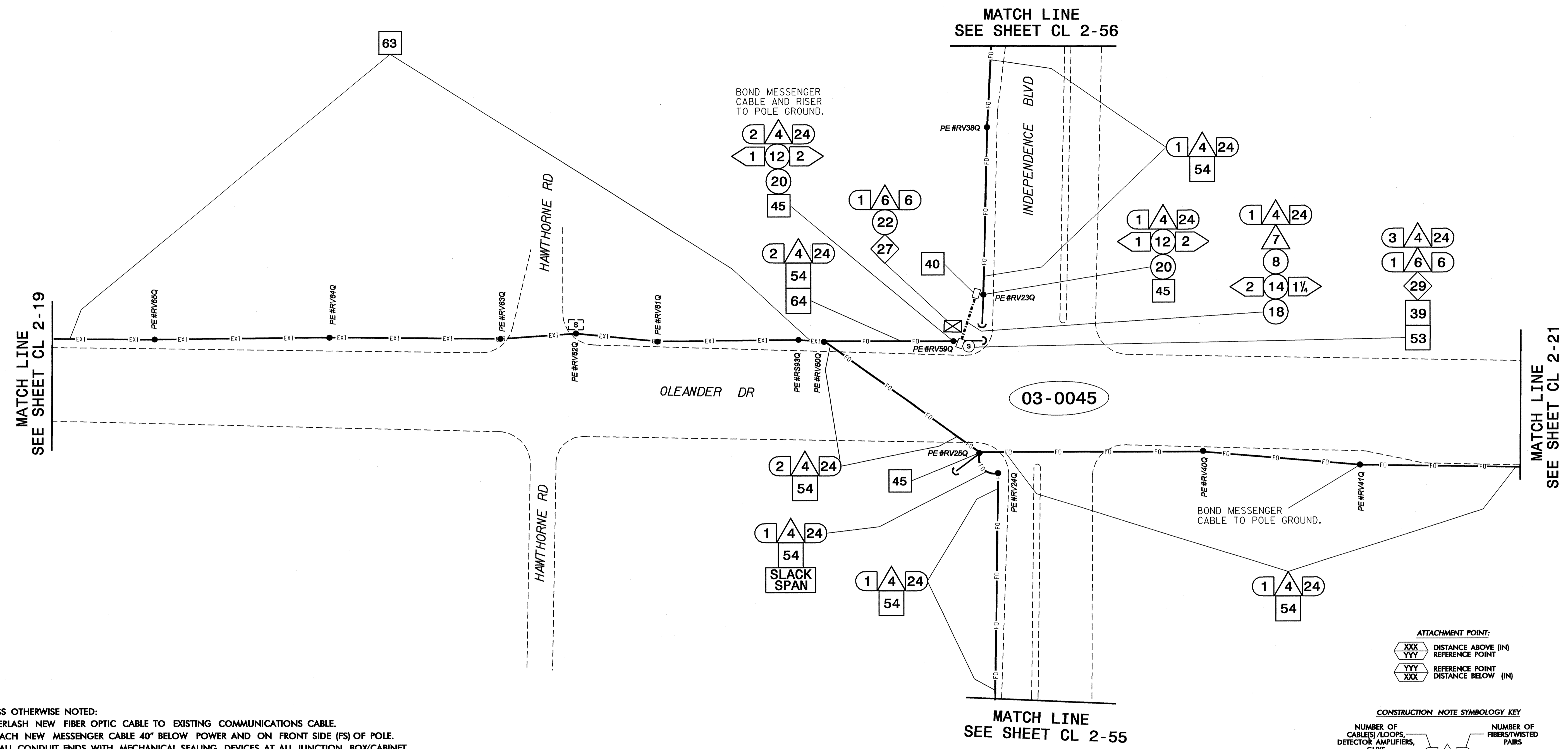
REVISIONS: _____ INIT. DATE

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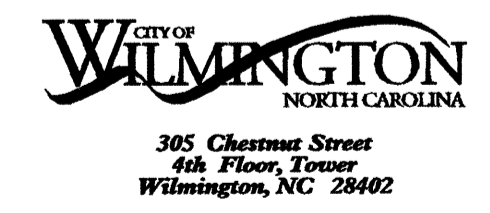
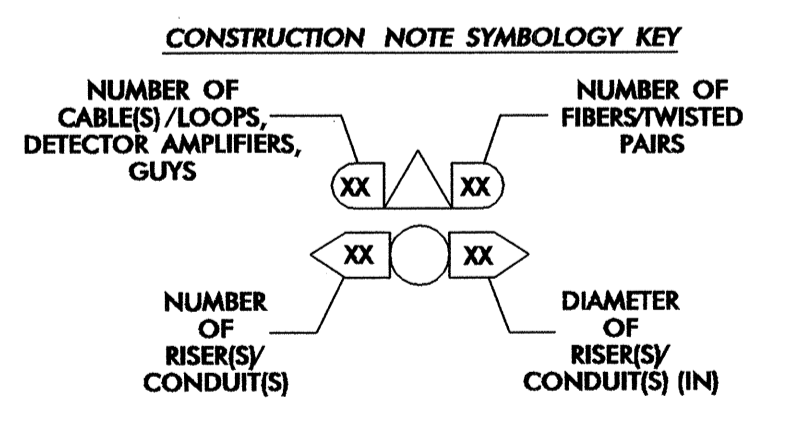
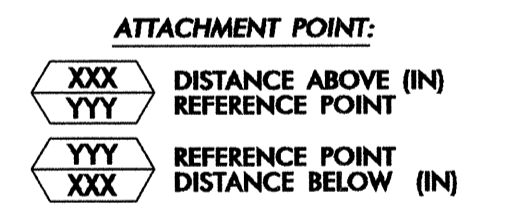
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CADD F11 encls: CL 2-19, DGN



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Prepared for the Offices of:

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Division 03 New Hanover County Wilmington

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REVISIONS: _____

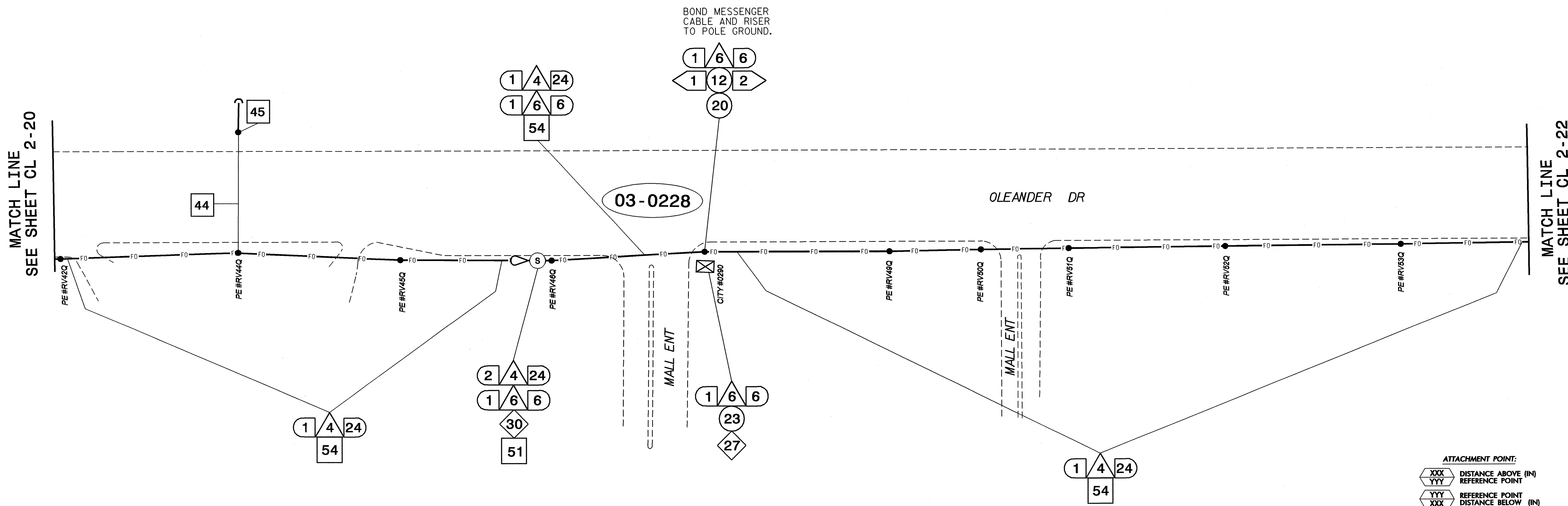
INIT. DATE

Signature: *Lisa M. Moon* 7/23/08
DATE

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022516 LISA M. MOON

CADD File Name: CL 2-020.DGN

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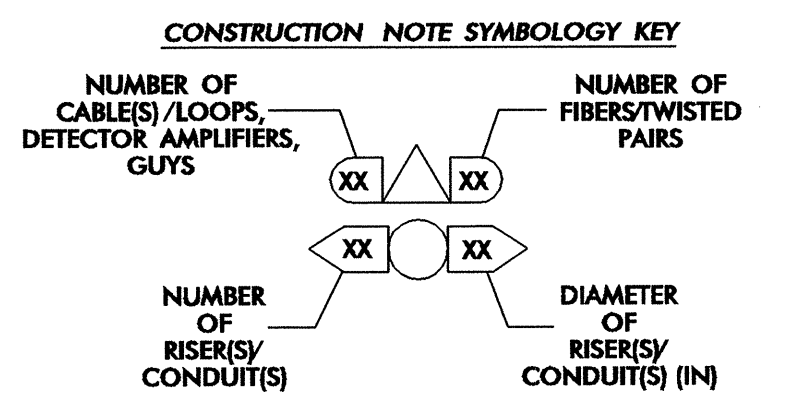


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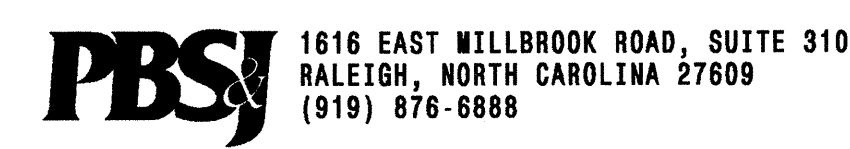
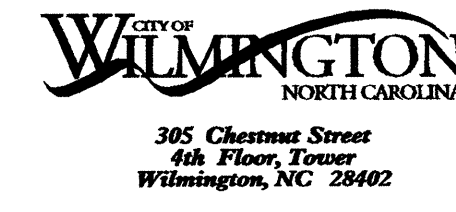
ATTACHMENT POINT:

XXX
YYY
XXX

DISTANCE ABOVE (IN)
REFERENCE POINT
DISTANCE BELOW (IN)



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Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

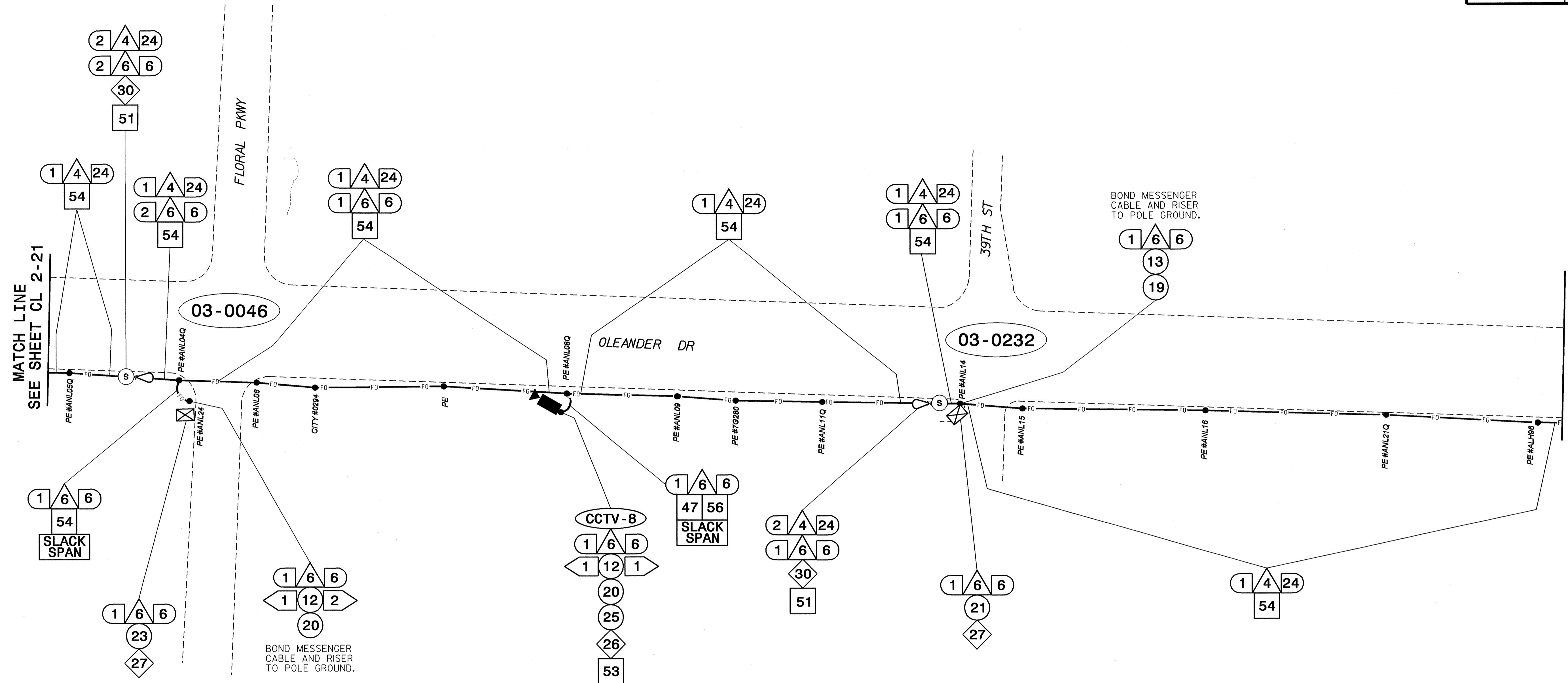
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

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1"=50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
022516
SIGNATURE: Lisa M. Moon DATE: 7/23/08
CAD FILE NAME: CL 2-021.DGN

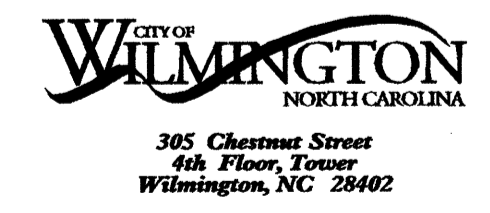


ATTACHMENT POINT:
 XXX YYY DISTANCE ABOVE (IN) REFERENCE POINT
 YYY XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOGY KEY
 NUMBER OF CABLE(S)/LOOPS, DETECTOR, AMPLIFIERS, GUYS: XX
 NUMBER OF RISER(S)/CONDUIT(S): XX
 NUMBER OF FIBER/TWISTED PAIRS: XX
 DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
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1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23 INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34 REMOVE EXISTING WIRELESS SYSTEM	45 INSTALL DOWN GUY ASSEMBLY	56 LASH CABLE(S) TO NEW MESSENGER CABLE
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3 INSTALL CATEGORY 5E CABLE	14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25 INSTALL NEW RISER INTO POLE MOUNTED CABINET	36 INSTALL CCTV CAMERA ASSEMBLY	47 INSTALL MESSENGER CABLE	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4 INSTALL SMFO CABLE	15 DIRECTIONAL DRILL CONDUIT	26 INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37 INSTALL CCTV CAMERA WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59 INSTALL NEW POLE MOUNTED CCTV CABINET
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 RALEIGH, NORTH CAROLINA 27609
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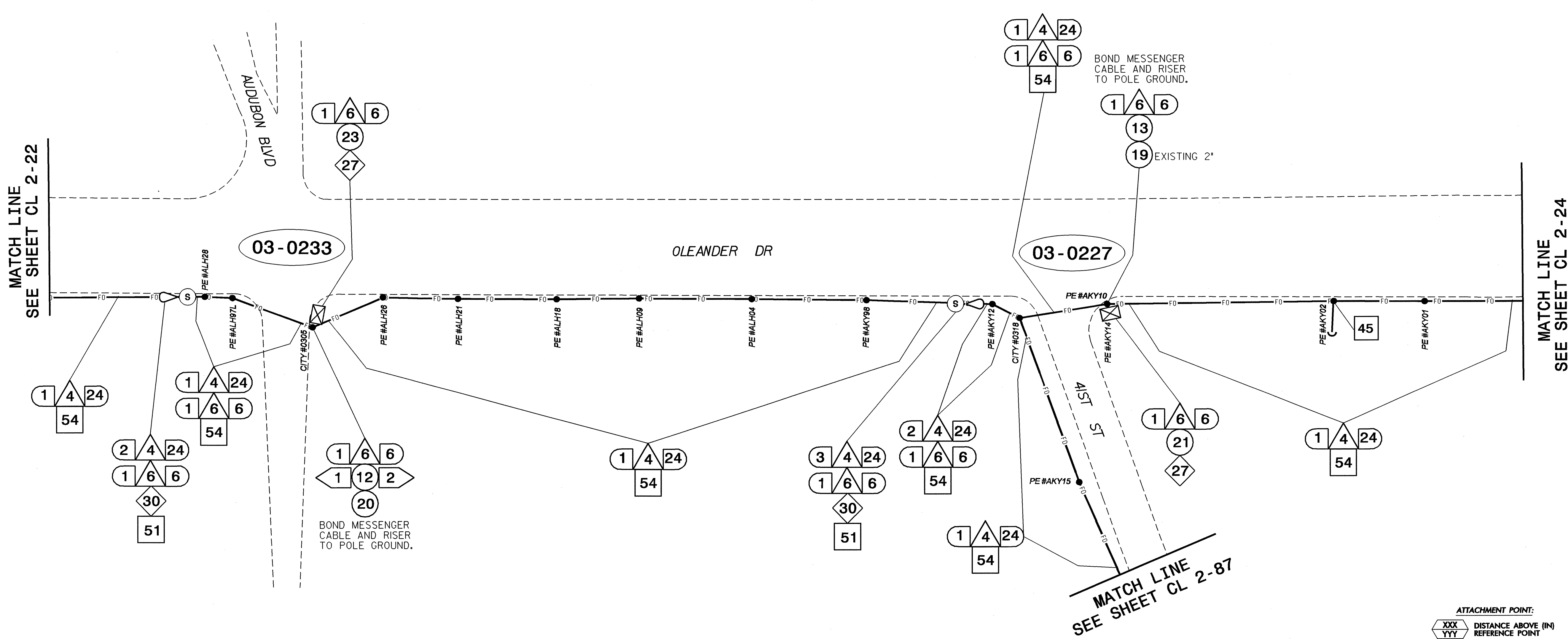
Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Noon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 ISA M. MOON
 SIGNATURE DATE 7-23-08
 CADD File Name: CL 2-022.DGN

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MATCH LINE
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MATCH LINE
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MATCH LINE
SEE SHEET CL 2-87

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 NORTH CAROLINA
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 4th Floor, Tower
 Wilmington, NC 28402

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Prepared for the Offices of:
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 DEPARTMENT OF TRANSPORTATION
 750 Greenfield Parkway, Garner, NC 27529

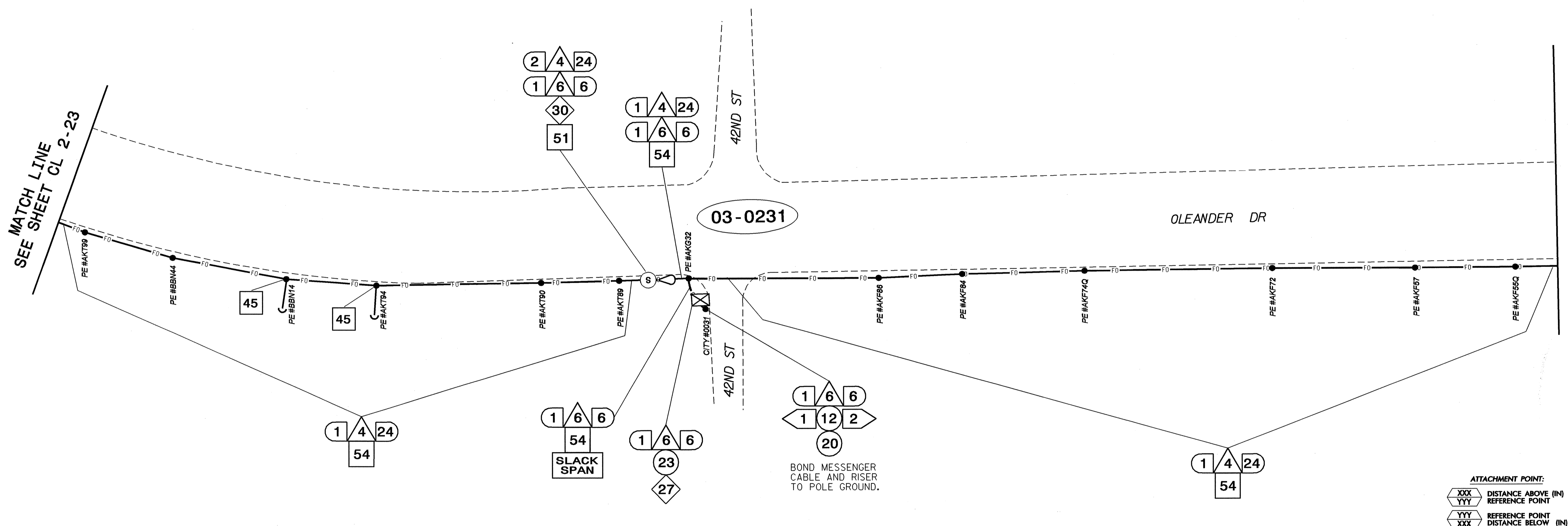
Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
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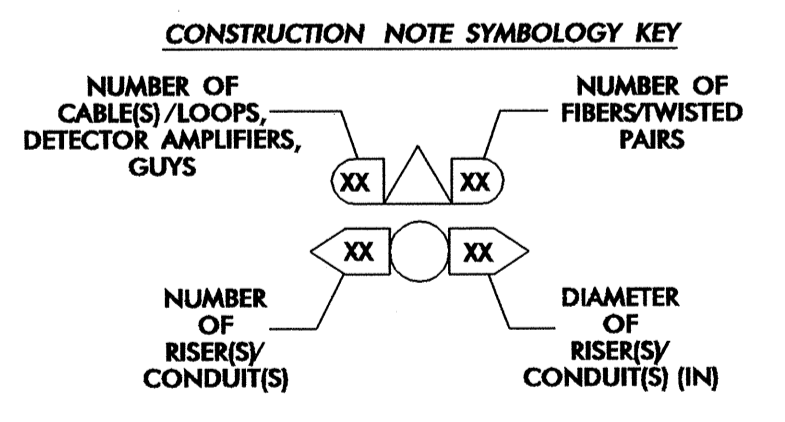
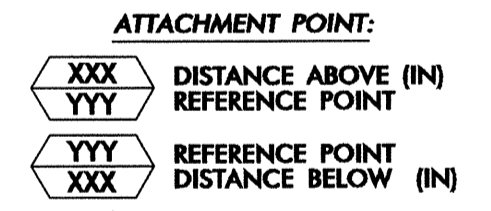
SEAL
LISA M. MOON
 PROFESSIONAL ENGINEER
 022516
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 CADD File name: CL 2-023.DGN

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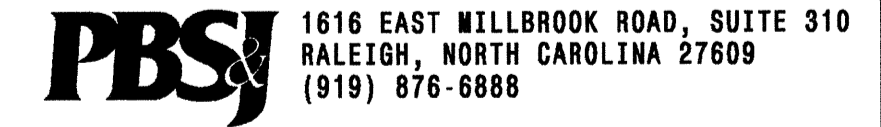
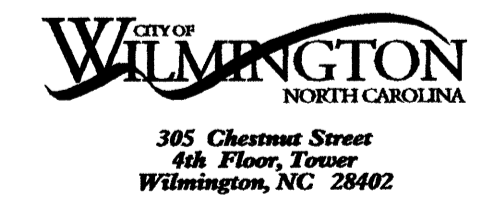


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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

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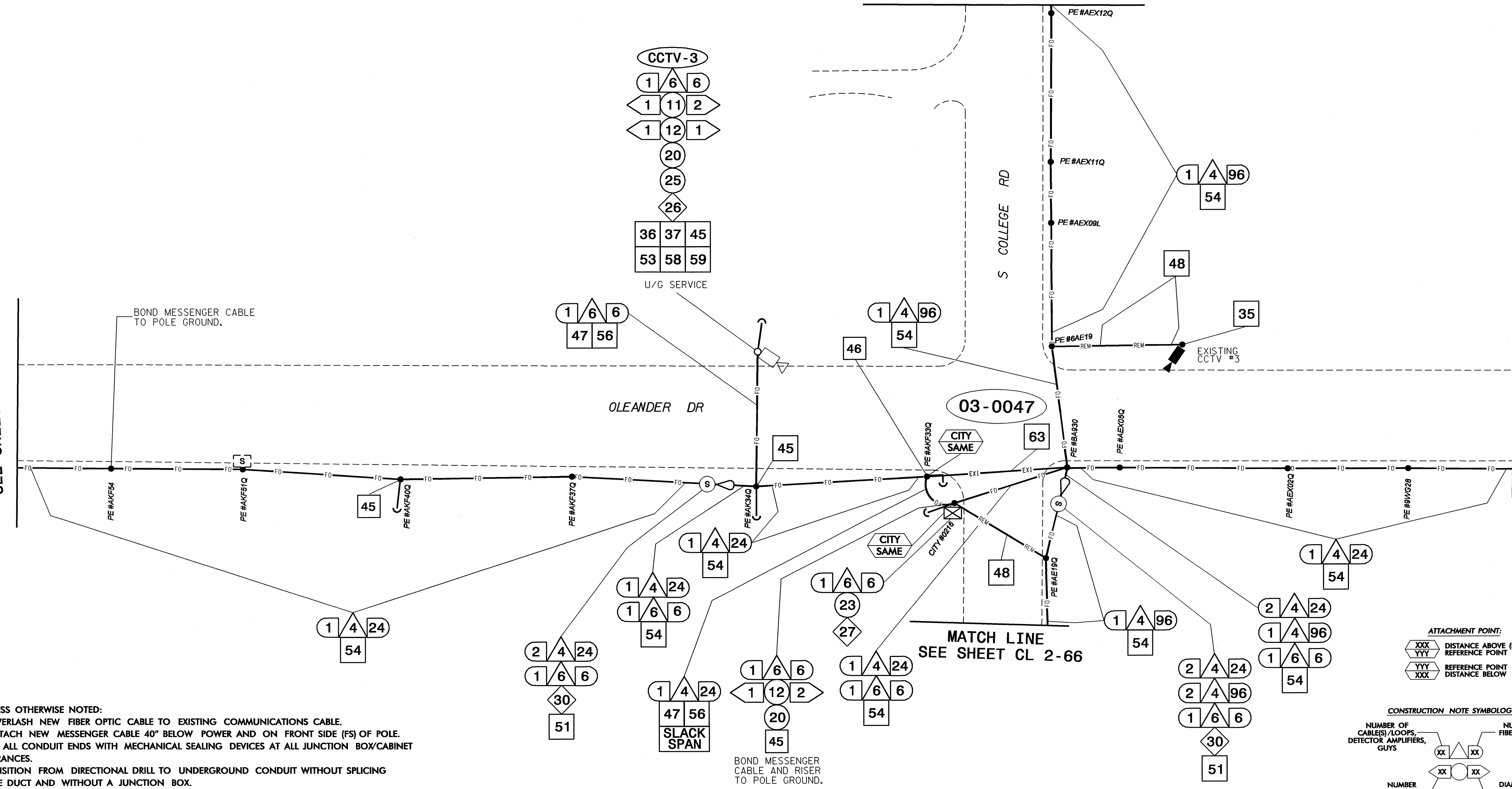
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DATE: 7-23-08
CAD F11 names: CL 2-024.DGN

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MATCH LINE
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MATCH LINE
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NOTES:

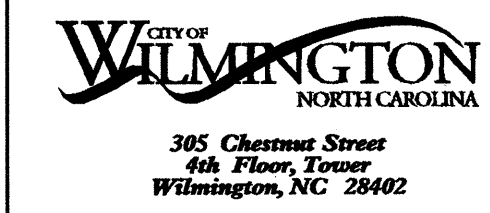
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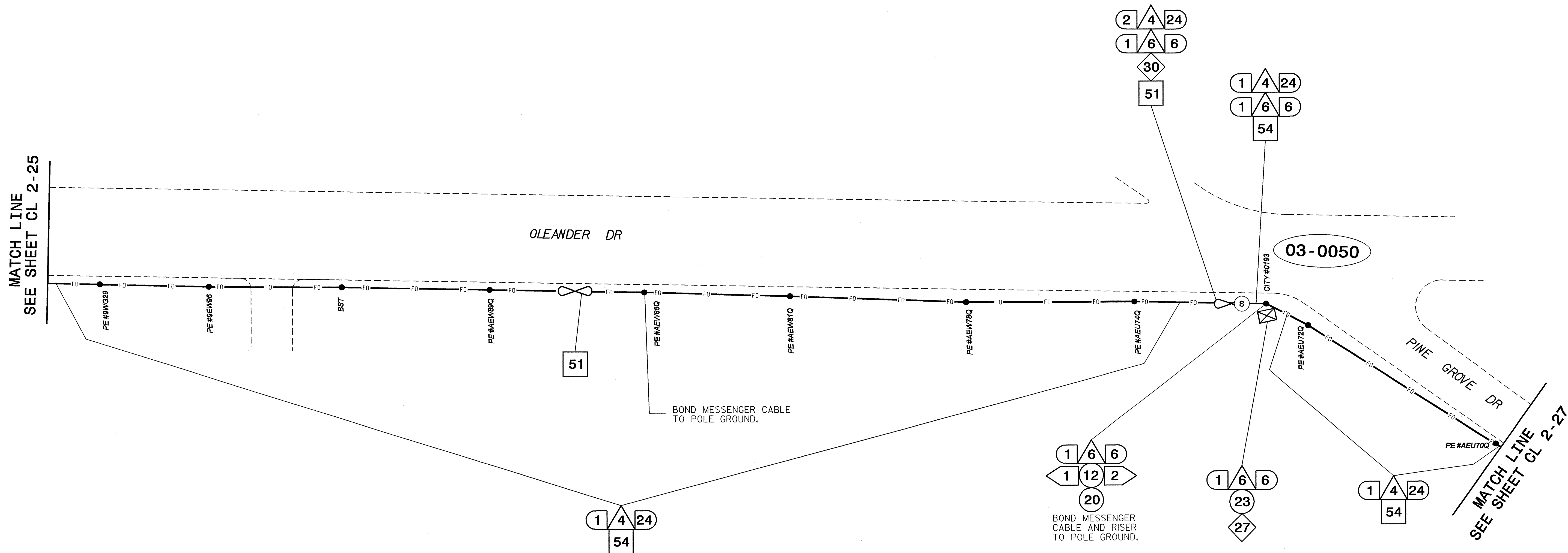


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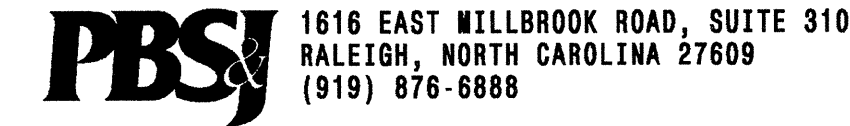
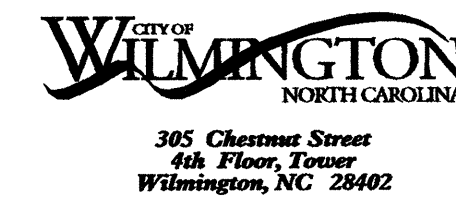
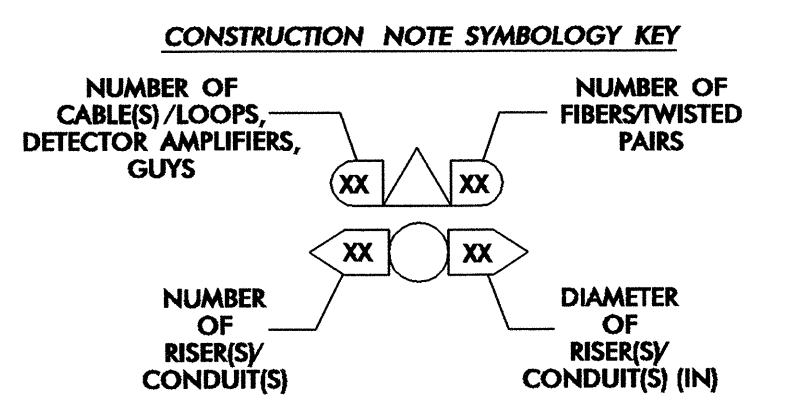
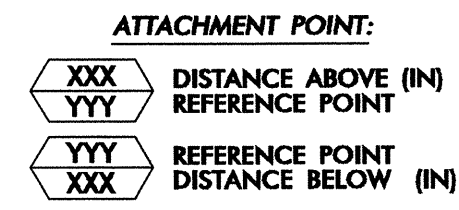


MATCH LINE
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____

INIT. DATE

1"=50'

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 022518 LISA M. MOON

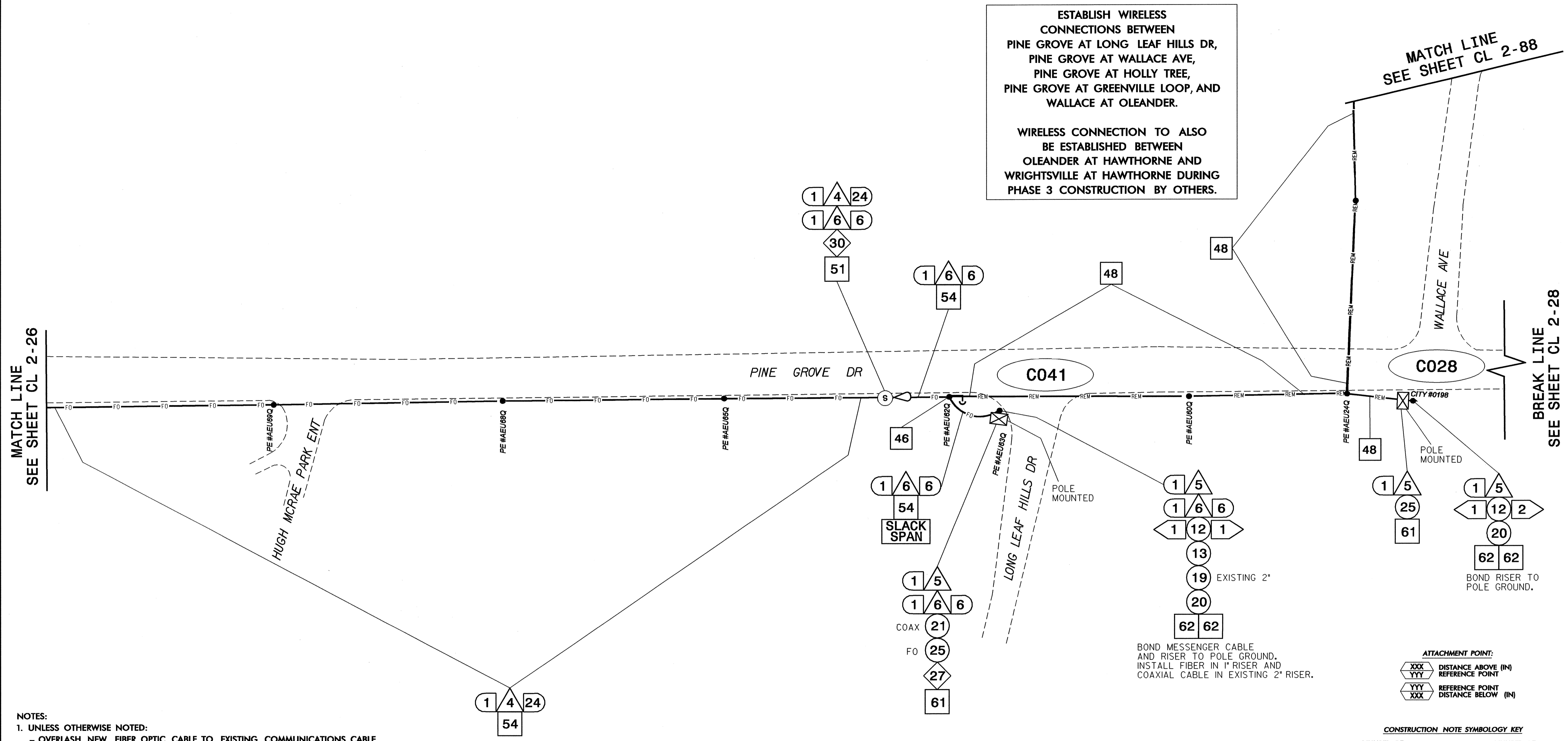
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ESTABLISH WIRELESS CONNECTIONS BETWEEN PINE GROVE AT LONG LEAF HILLS DR, PINE GROVE AT WALLACE AVE, PINE GROVE AT HOLLY TREE, PINE GROVE AT GREENVILLE LOOP, AND WALLACE AT OLEANDER.

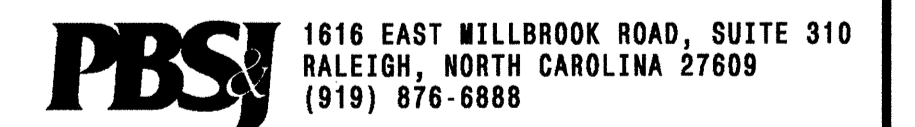
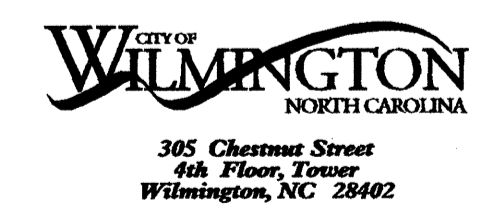
WIRELESS CONNECTION TO ALSO BE ESTABLISHED BETWEEN OLEANDER AT HAWTHORNE AND WRIGHTSVILLE AT HAWTHORNE DURING PHASE 3 CONSTRUCTION BY OTHERS.



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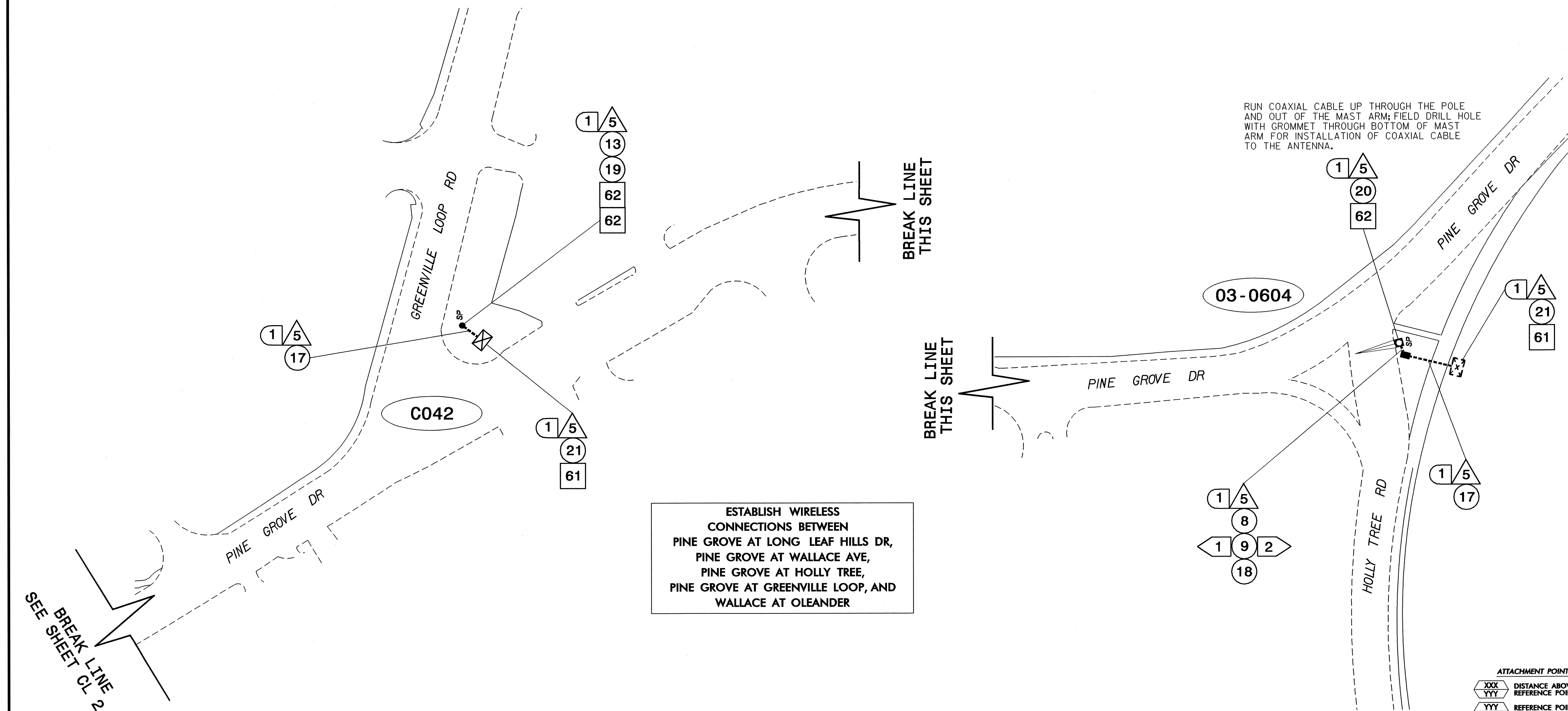
Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

REVISIONS: _____ INIT. DATE

7/23/08
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RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT OF THE MAST ARM; FIELD DRILL HOLE WITH GROMMET THROUGH BOTTOM OF MAST ARM FOR INSTALLATION OF COAXIAL CABLE TO THE ANTENNA.

ESTABLISH WIRELESS CONNECTIONS BETWEEN PINE GROVE AT LONG LEAF HILLS DR, PINE GROVE AT WALLACE AVE, PINE GROVE AT HOLLY TREE, PINE GROVE AT GREENVILLE LOOP, AND WALLACE AT OLEANDER

SEE SHEET CL 2-27

ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY
 NUMBER OF CABLE(S)/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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CITY OF WILMINGTON
 305 Chestnut Street
 4th Floor, Tower
 Wilmington, NC 28402

PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____

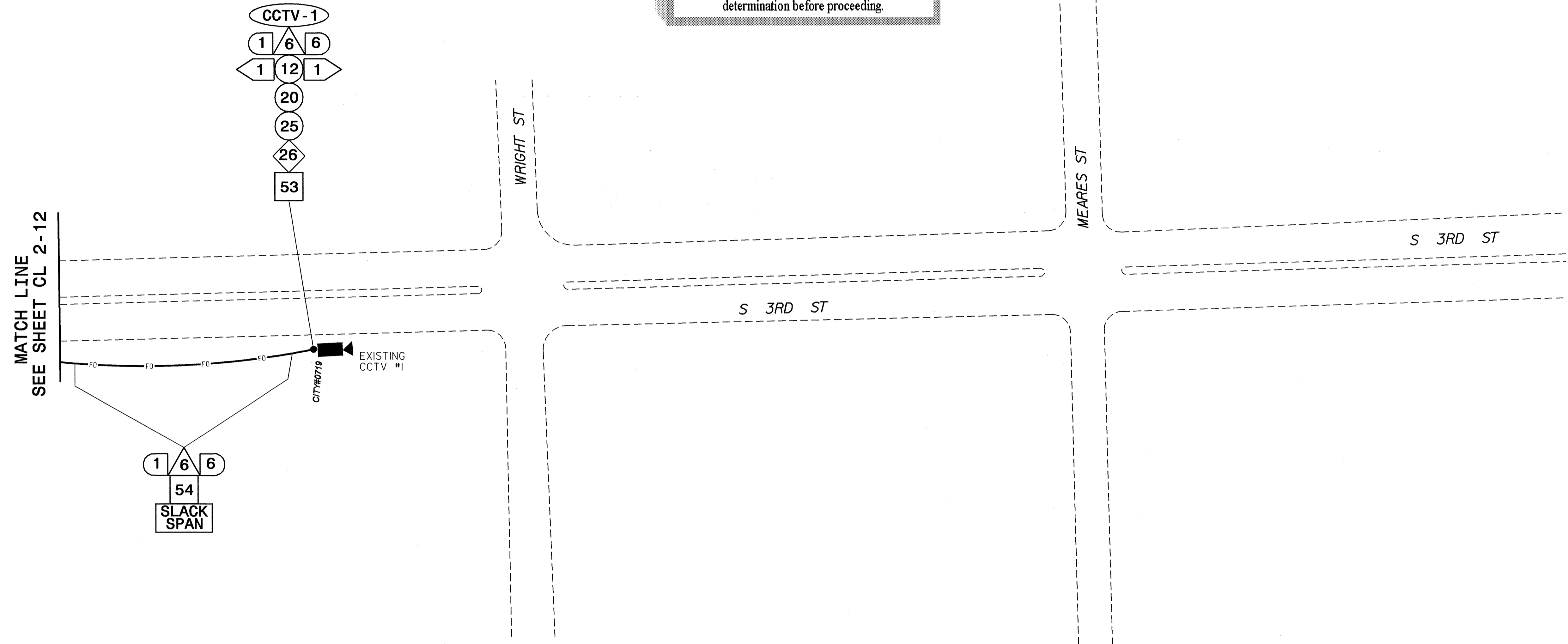
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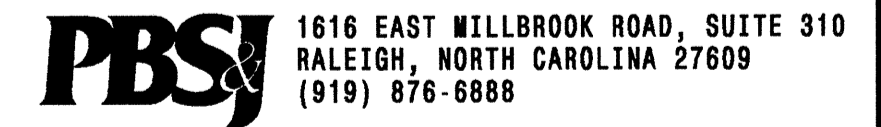
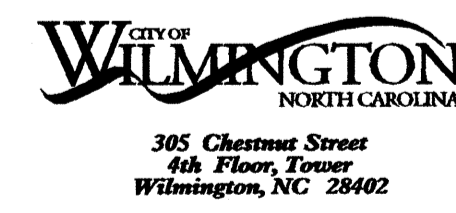
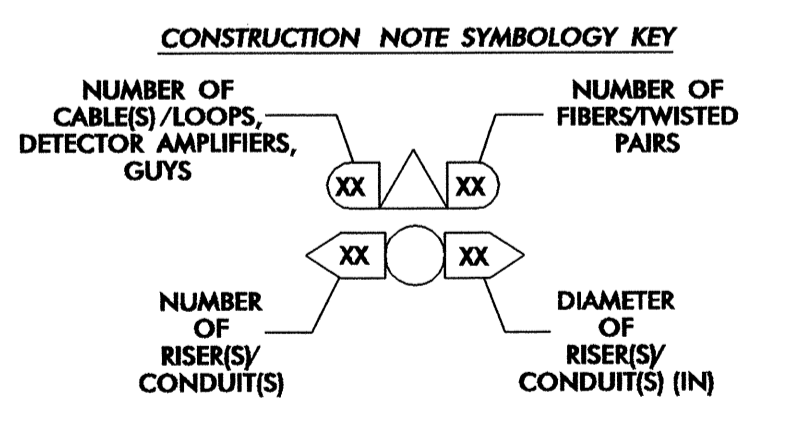
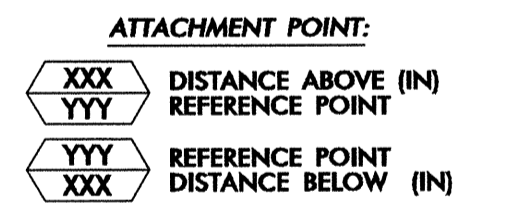
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 18566

This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Project Development and Environmental Analysis Branch - Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.



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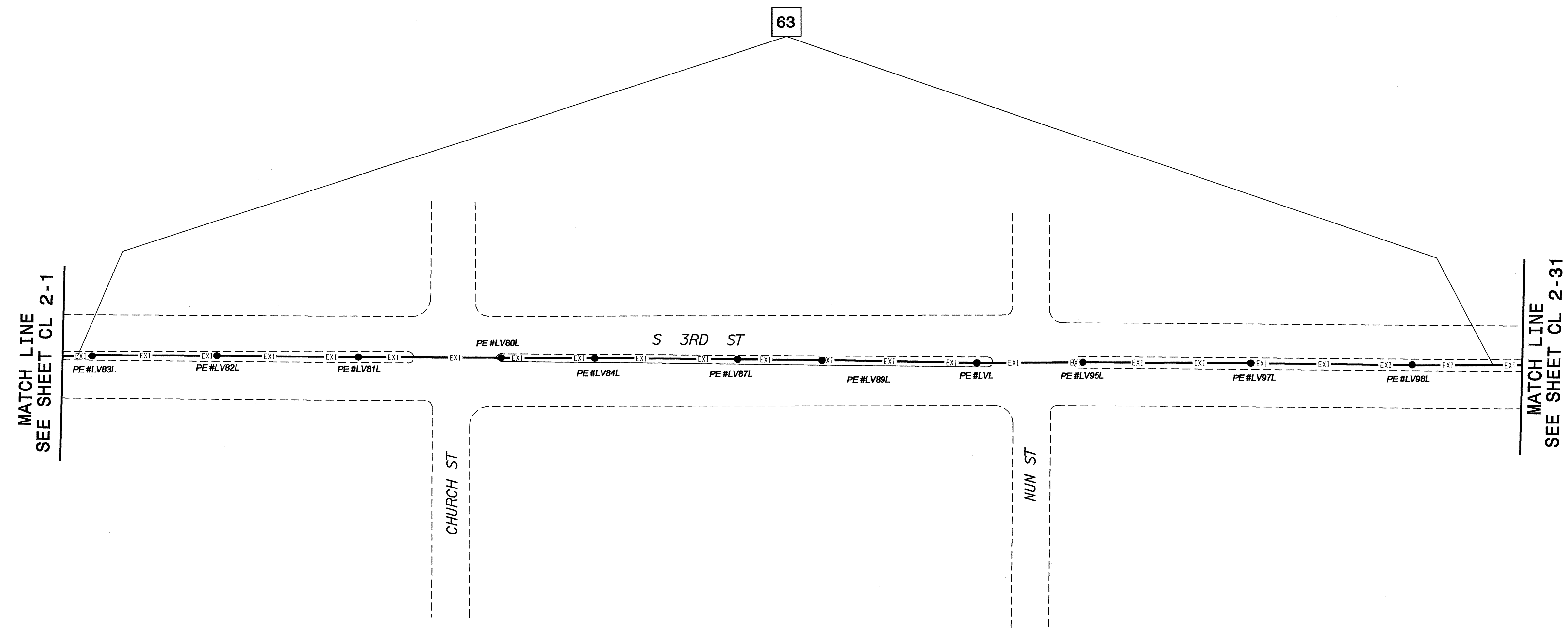
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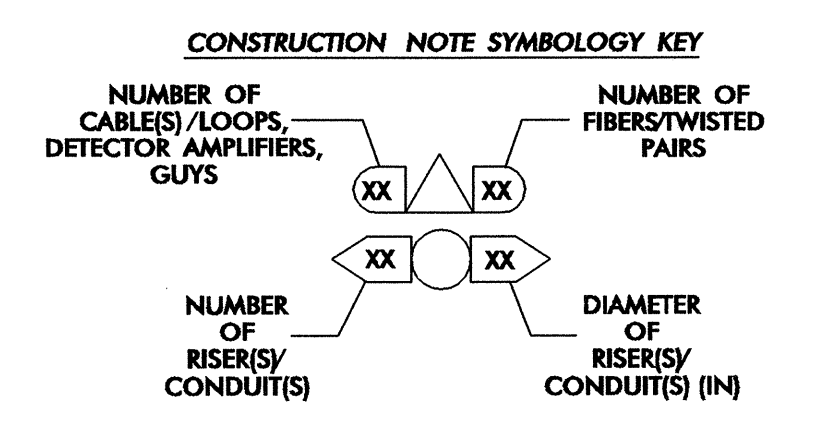
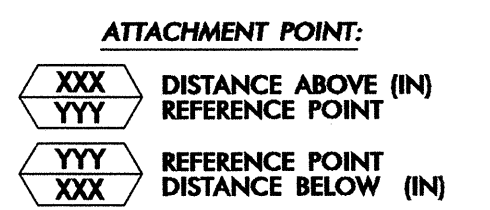
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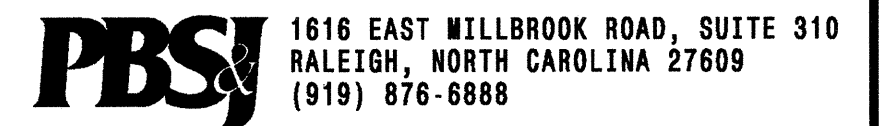
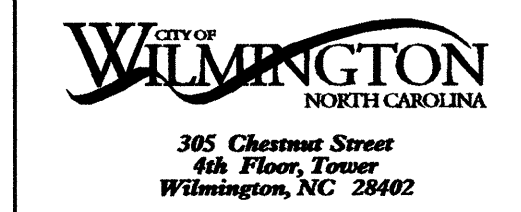


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7. INSTALL TRACER WIRE	18. INSTALL CABLE(S) IN NEW CONDUIT	29. INSTALL UNDERGROUND SPLICE ENCLOSURE	40. INSTALL OVERSIZED JUNCTION BOX	51. INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE	62. INSTALL DIRECTIONAL ANTENNA
8. INSTALL CONDUIT UNDERGROUND	19. INSTALL CABLE(S) IN EXISTING RISER(S)	30. INSTALL AERIAL SPLICE ENCLOSURE	41. REMOVE EXISTING JUNCTION BOX	52. INSTALL SERVICE POLE	63. MAINTAIN EXISTING COMMUNICATION CABLE(S)
9. INSTALL PVC CONDUIT	20. INSTALL CABLE(S) IN NEW RISER(S)	31. NOT USED	42. INSTALL WOOD POLE	53. STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)	64. INSTALL AERIAL CABLE PROTECTOR
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**Wilmington Signal System
Cable Layout Plans
Phase 2**

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

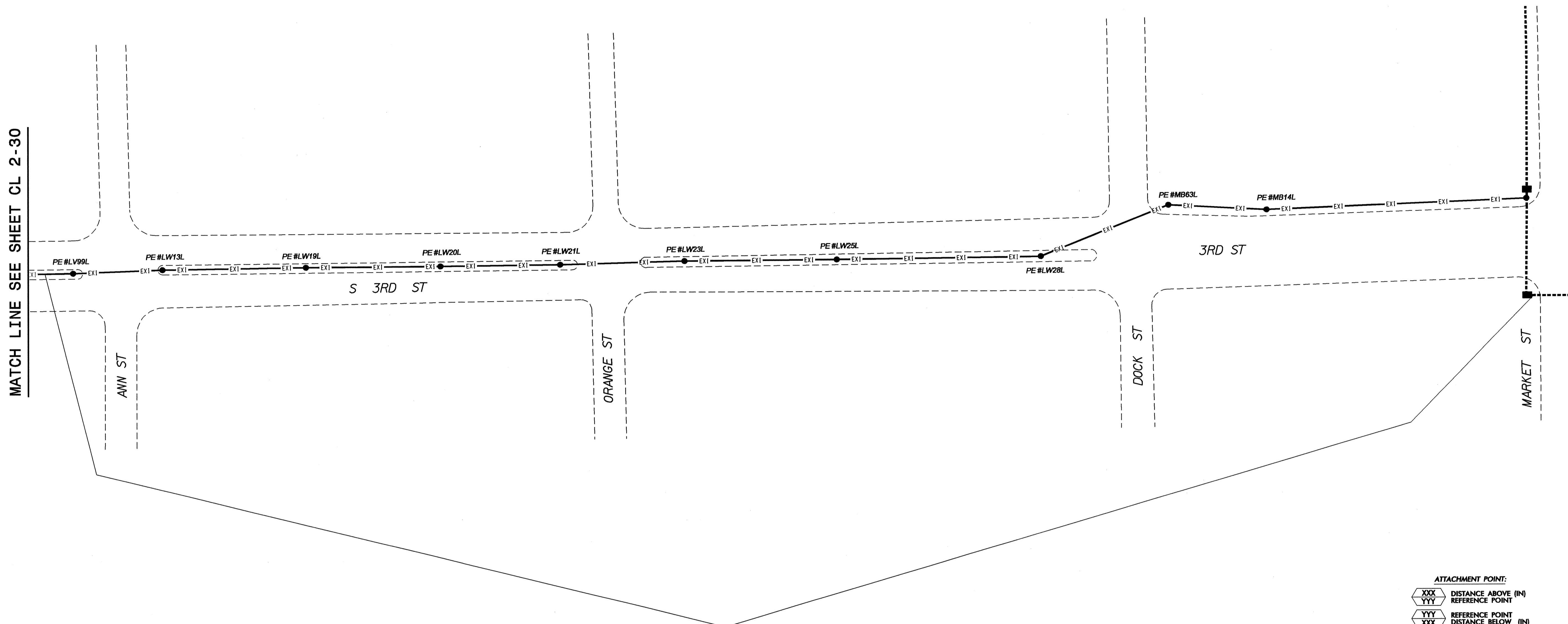
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NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
7-23-08
DATE

SIGNATURE
Lisa M. Moon
DATE
7-23-08

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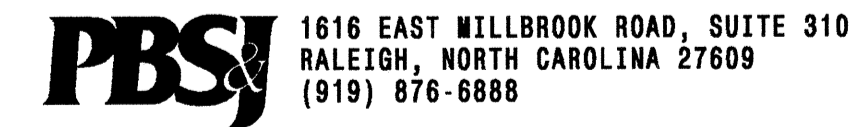
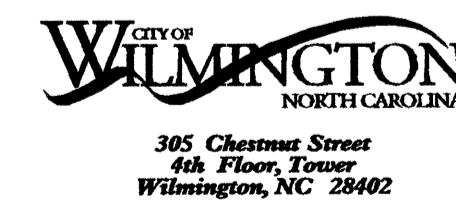
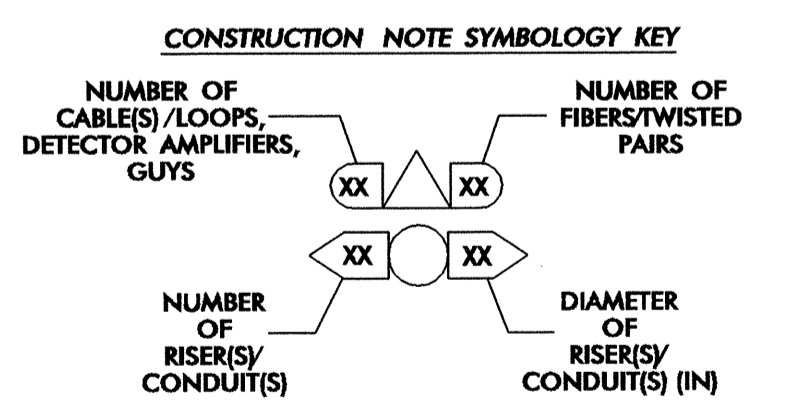
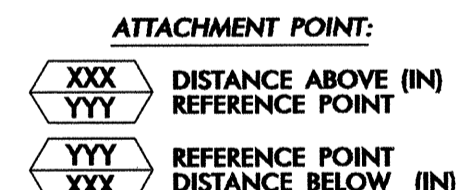


63

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

0 50 1"=50'

Signature: Lisa M. Moon 7-23-08 DATE

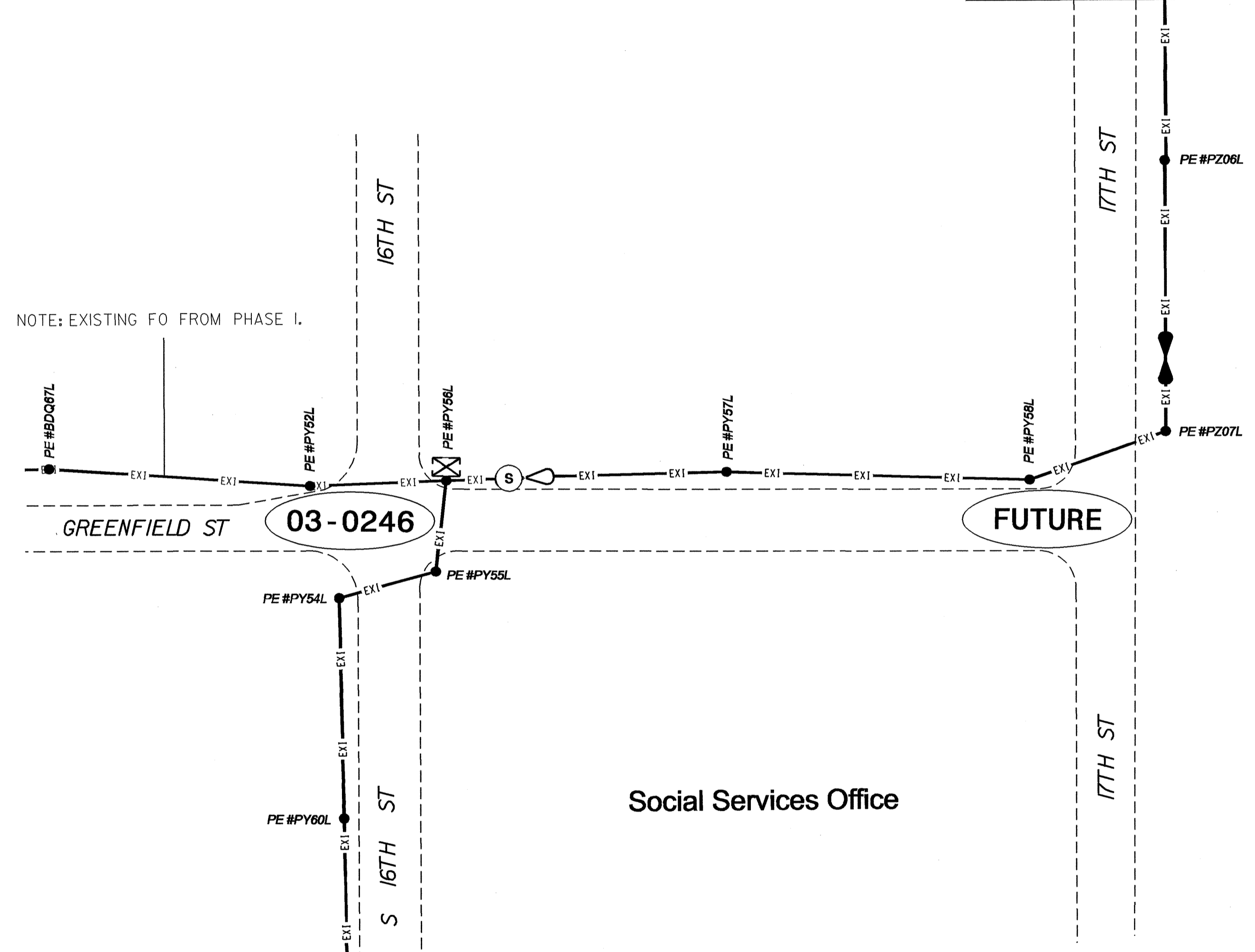
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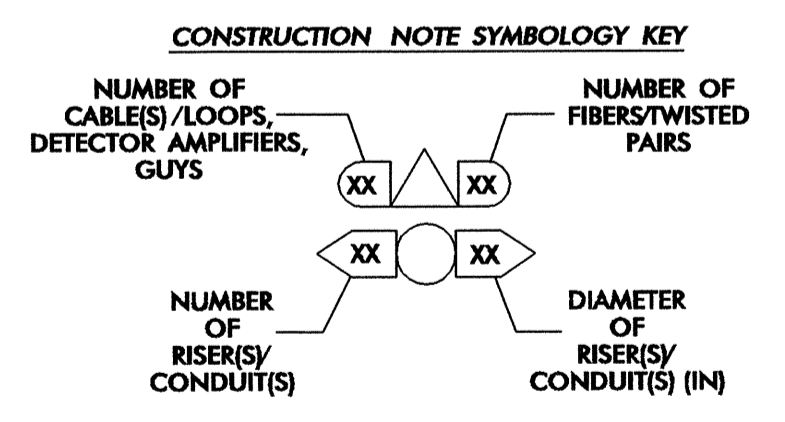
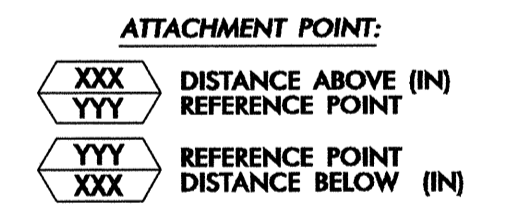
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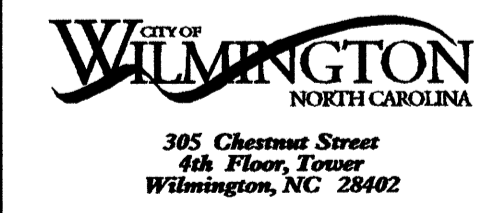
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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/WR Cooney

750 Greenfield Parkway, Garner, NC 27529

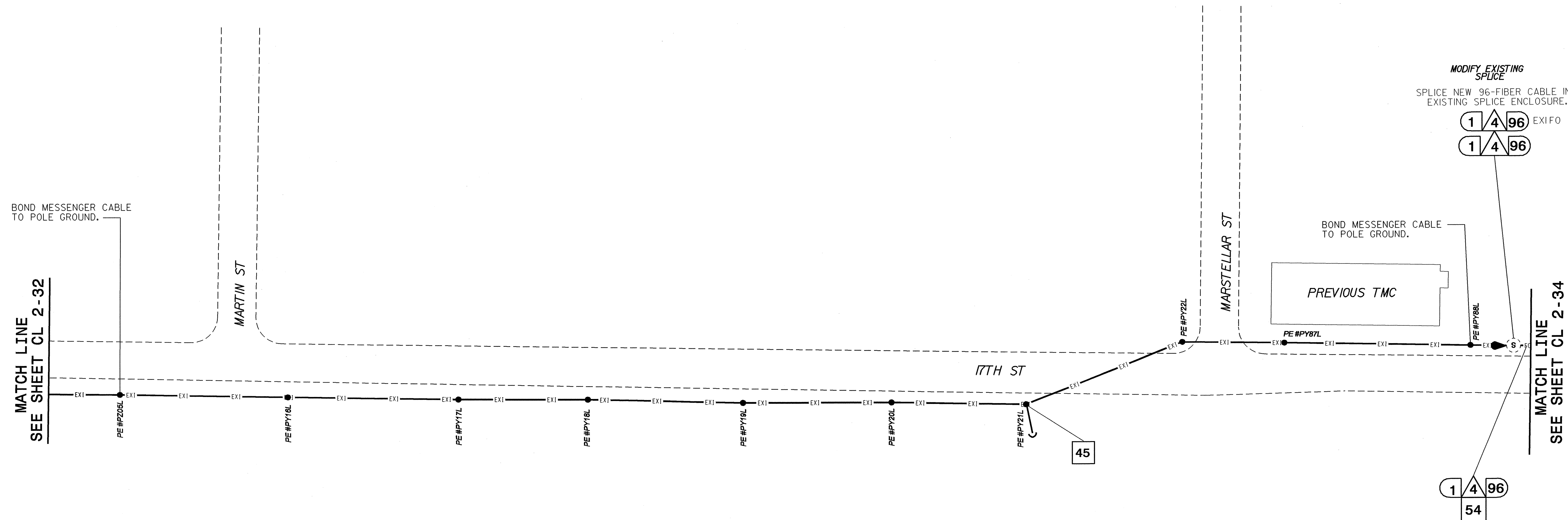
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Lisa M. Moon 7.23.08
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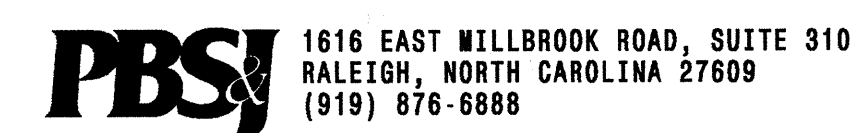
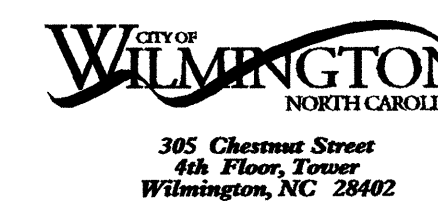
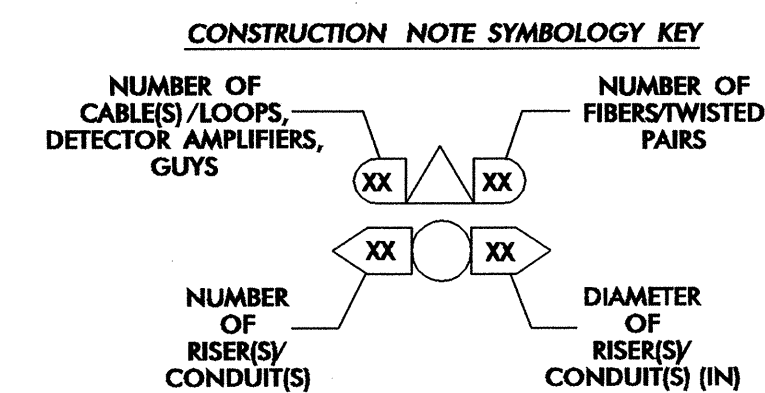
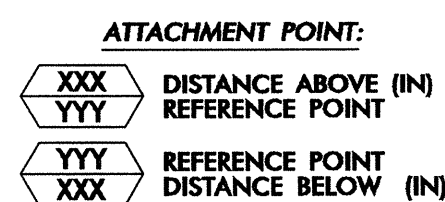
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

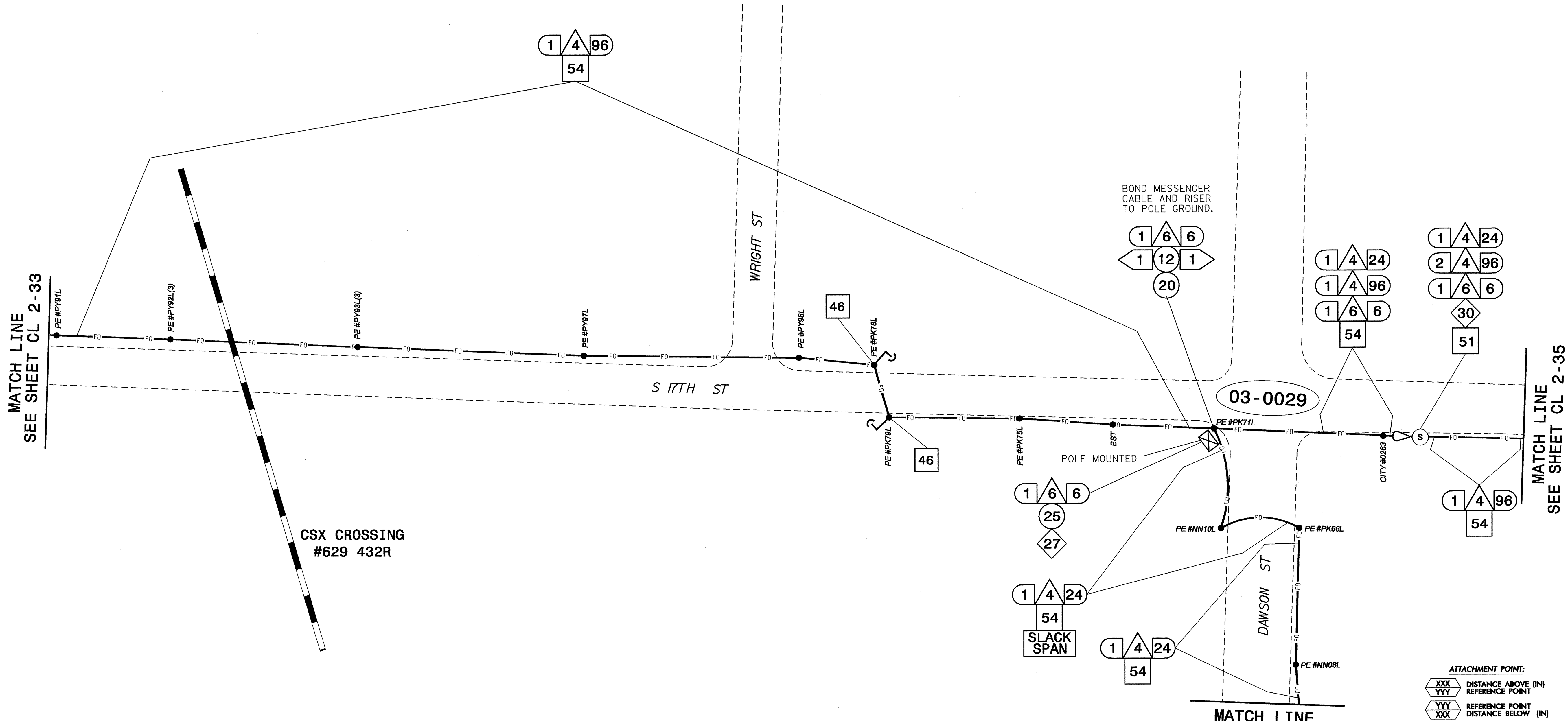
750 Greenfield Parkway, Garner, NC 27529

0 50
1"=50'

REVISIONS: _____ INIT. DATE

Signature: *Lisa M. Moon* 7/23/08
DATE: _____

CADD File Name: CL 2-033.DGN



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 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 YYY DISTANCE BELOW (IN) REFERENCE POINT

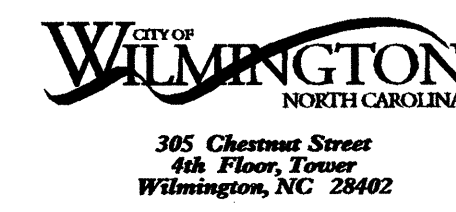
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NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS: XX

NUMBER OF FIBERS/TWISTED PAIRS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

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



PBS 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

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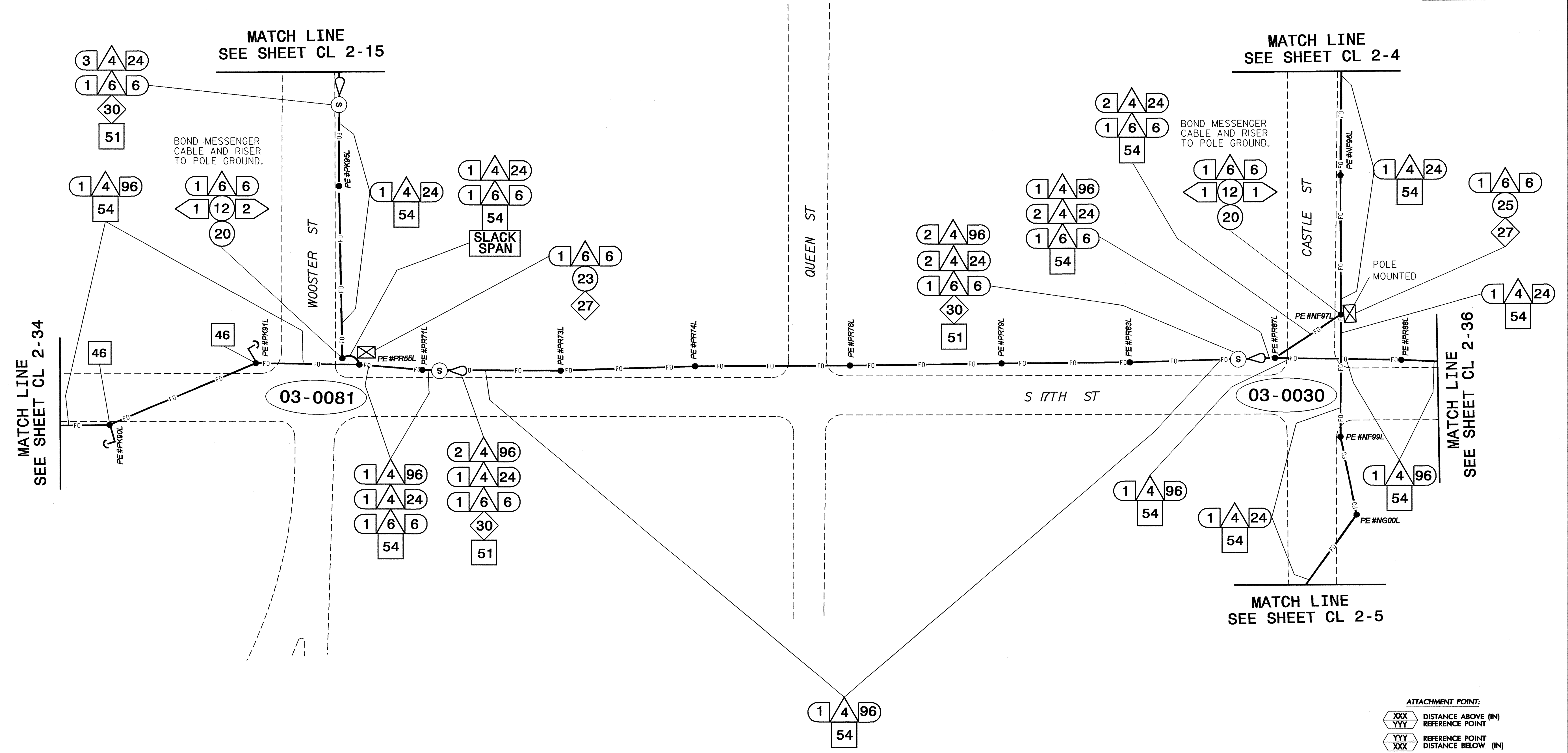
REVISIONS: _____

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Signature: *John M. Moon* 7-23-08
 DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER, LISA M. MOON, 022516

CADD File Name: CL 2-034.DGN



- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
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 - TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

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2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13. INSTALL HEAT SHRINK TUBING RETROFIT KIT	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35. REMOVE EXISTING CCTV CAMERA ASSEMBLY	46. INSTALL SIDEWALK GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
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ATTACHMENT POINT:
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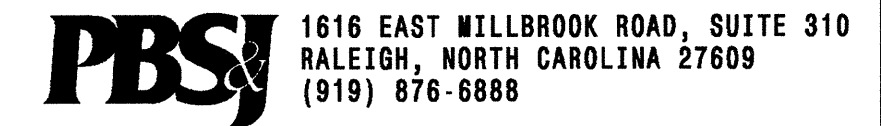
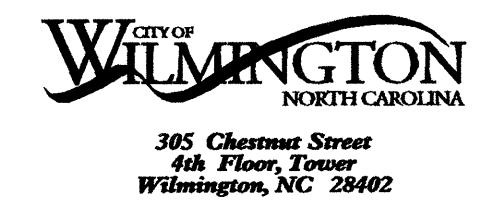
CONSTRUCTION NOTE SYMBOLGY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS: XX

NUMBER OF RISER(S)/CONDUIT(S): XX

NUMBER OF FIBER/TWISTED PAIRS: XX

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



Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____

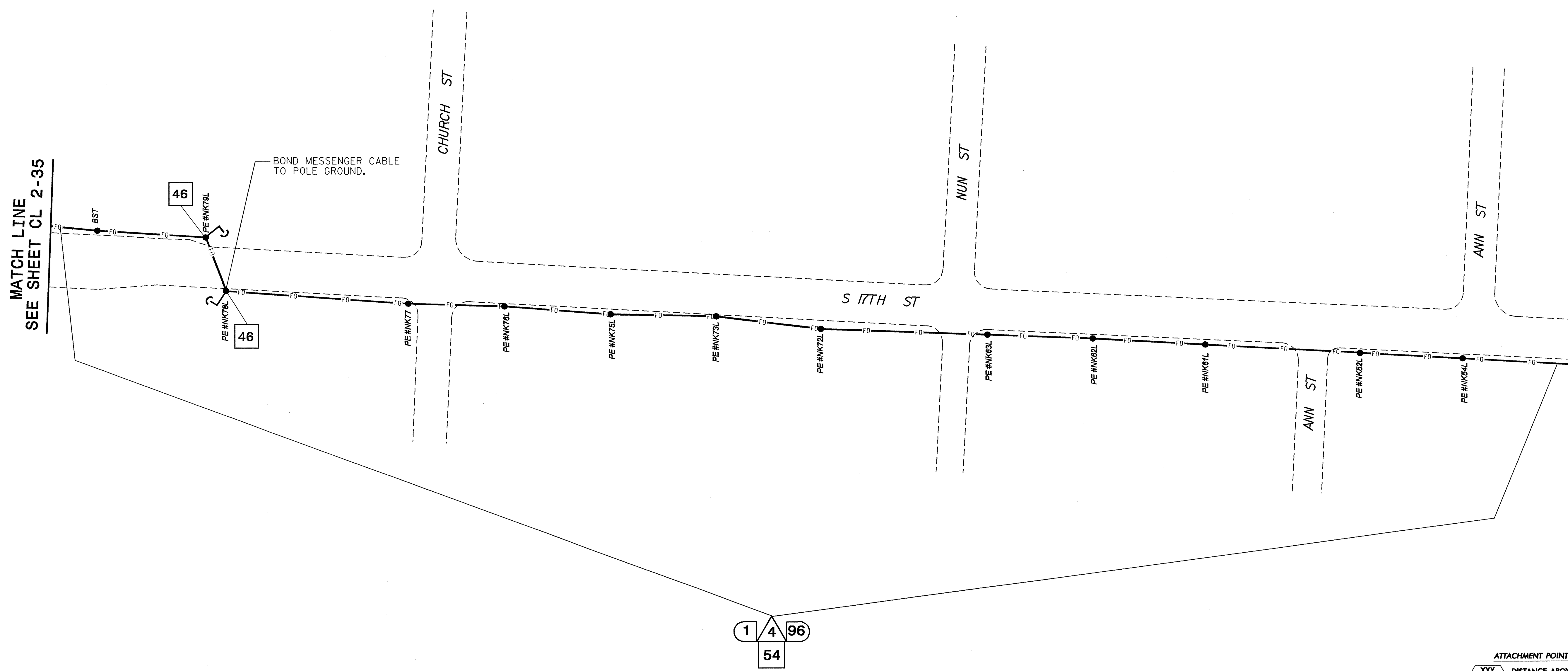
INIT. DATE

Signature: Lisa M. Moon 7-23-08

DATE: 7-23-08

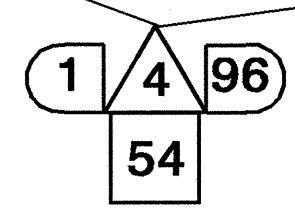
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MATCH LINE
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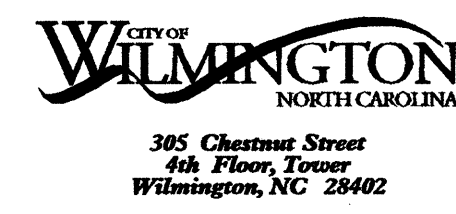


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YYY DISTANCE ABOVE (IN)
 REFERENCE POINT
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XXX REFERENCE POINT
 DISTANCE BELOW (IN)

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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

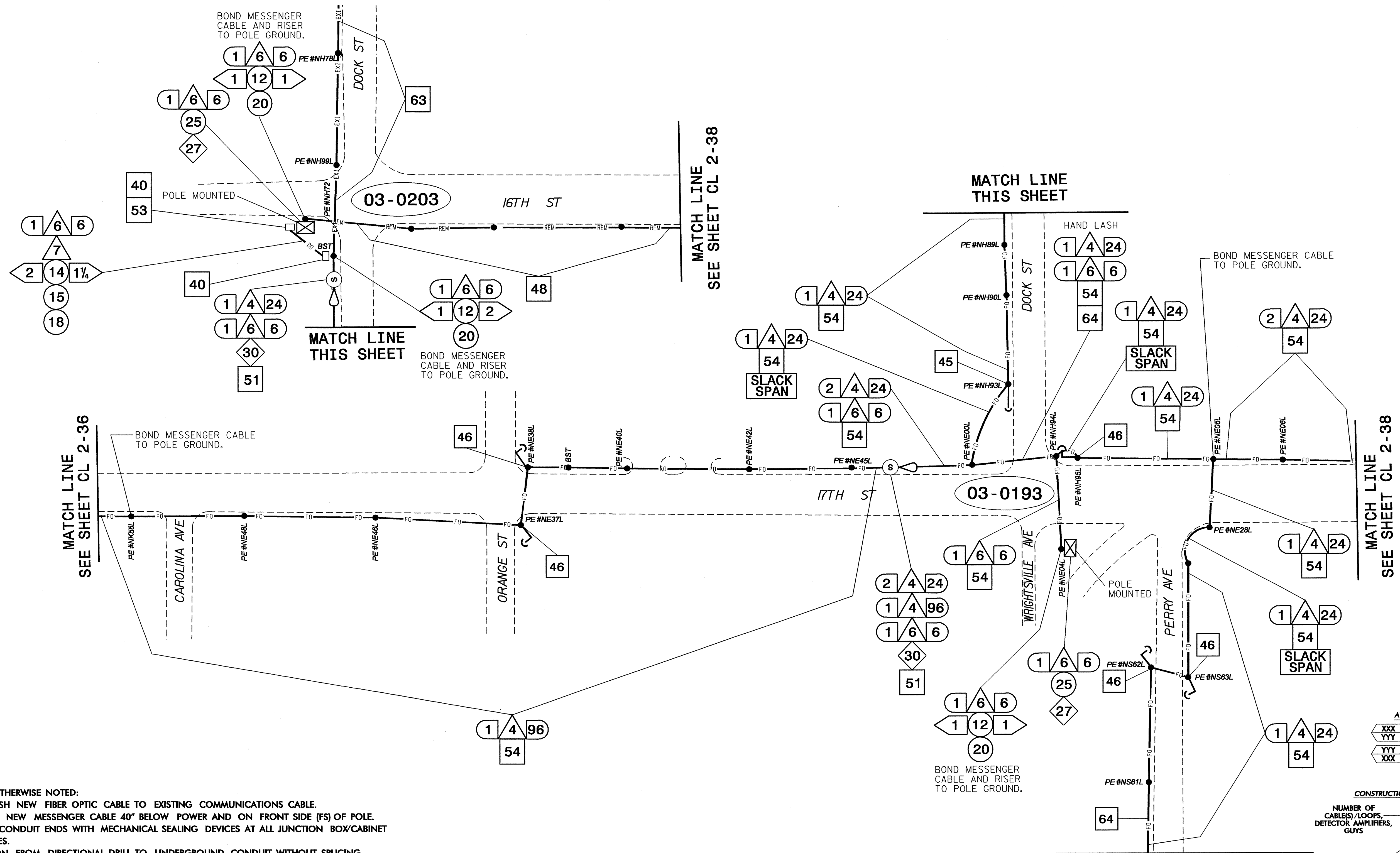
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

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1"=50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 LISA M. MOON
 SIGNATURE: Lisa M. Moon DATE: 7-23-08
 CADD Filename: CL 2-036.DGN



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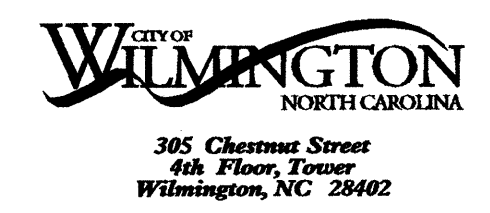
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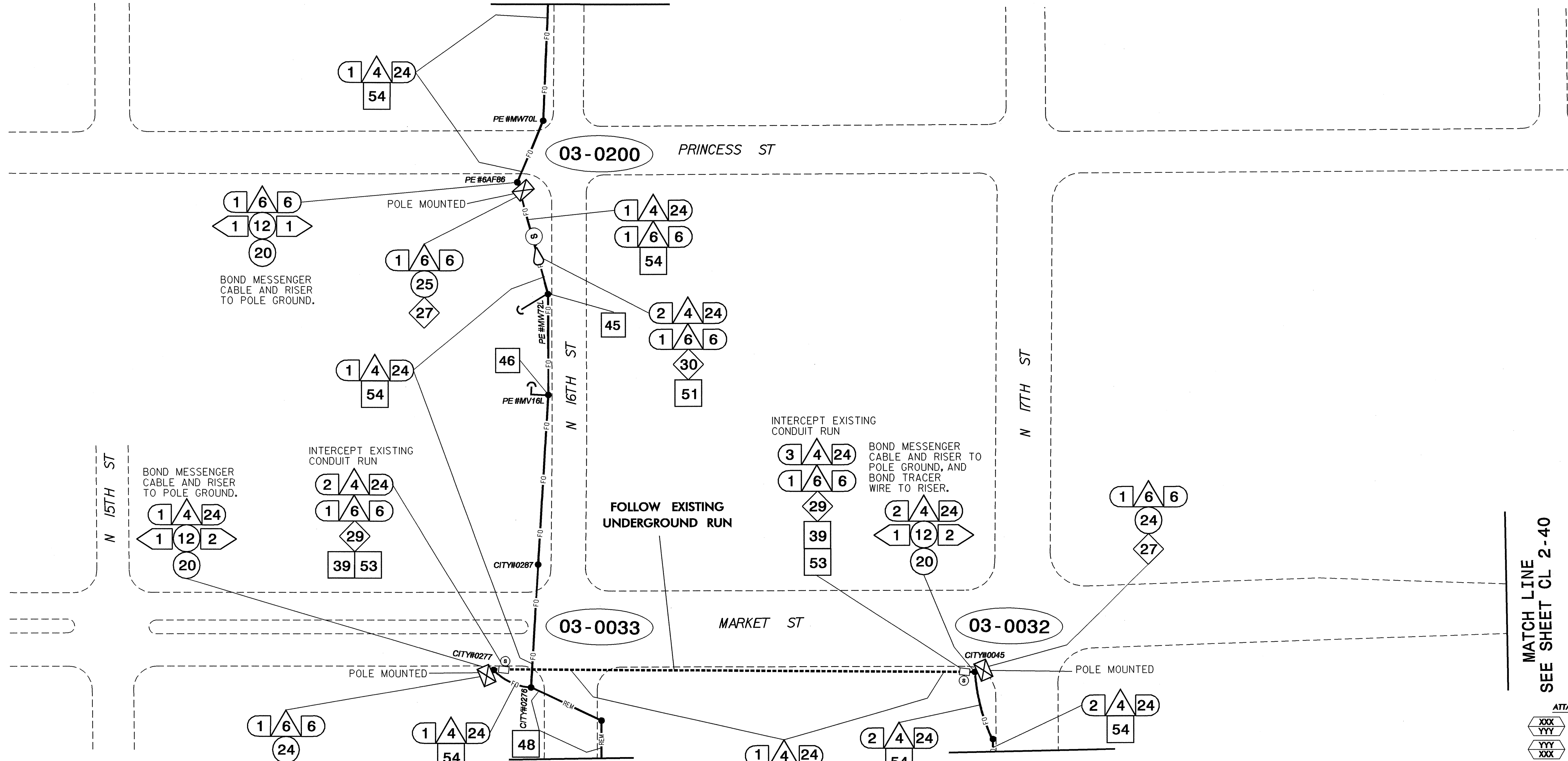
PBS 1616 EAST WILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888

Prepared for the Office of:
Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 REVISIONS: _____ INIT. DATE

 Signature: *Lisa M. Moon* 7-23-08
 Date: 7-23-08
 CAD FILE NAME: CL 2-037.DGN

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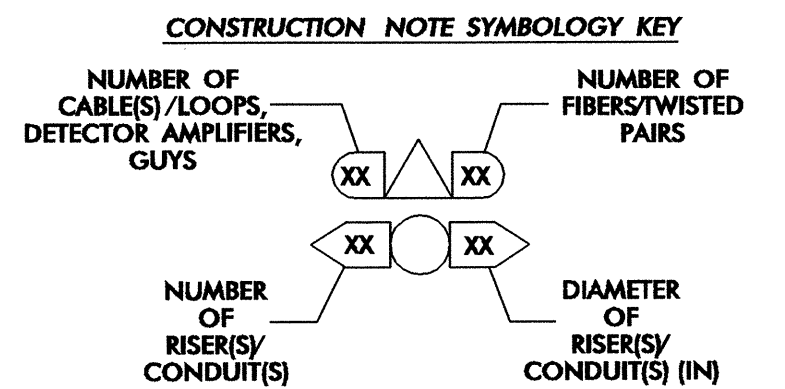
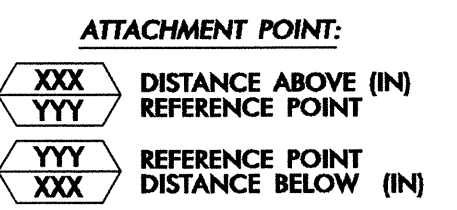
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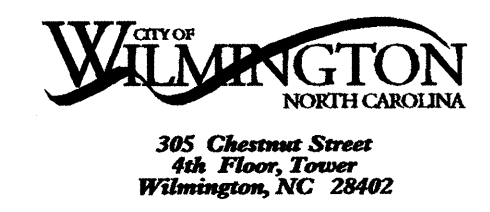
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REVISIONS: _____

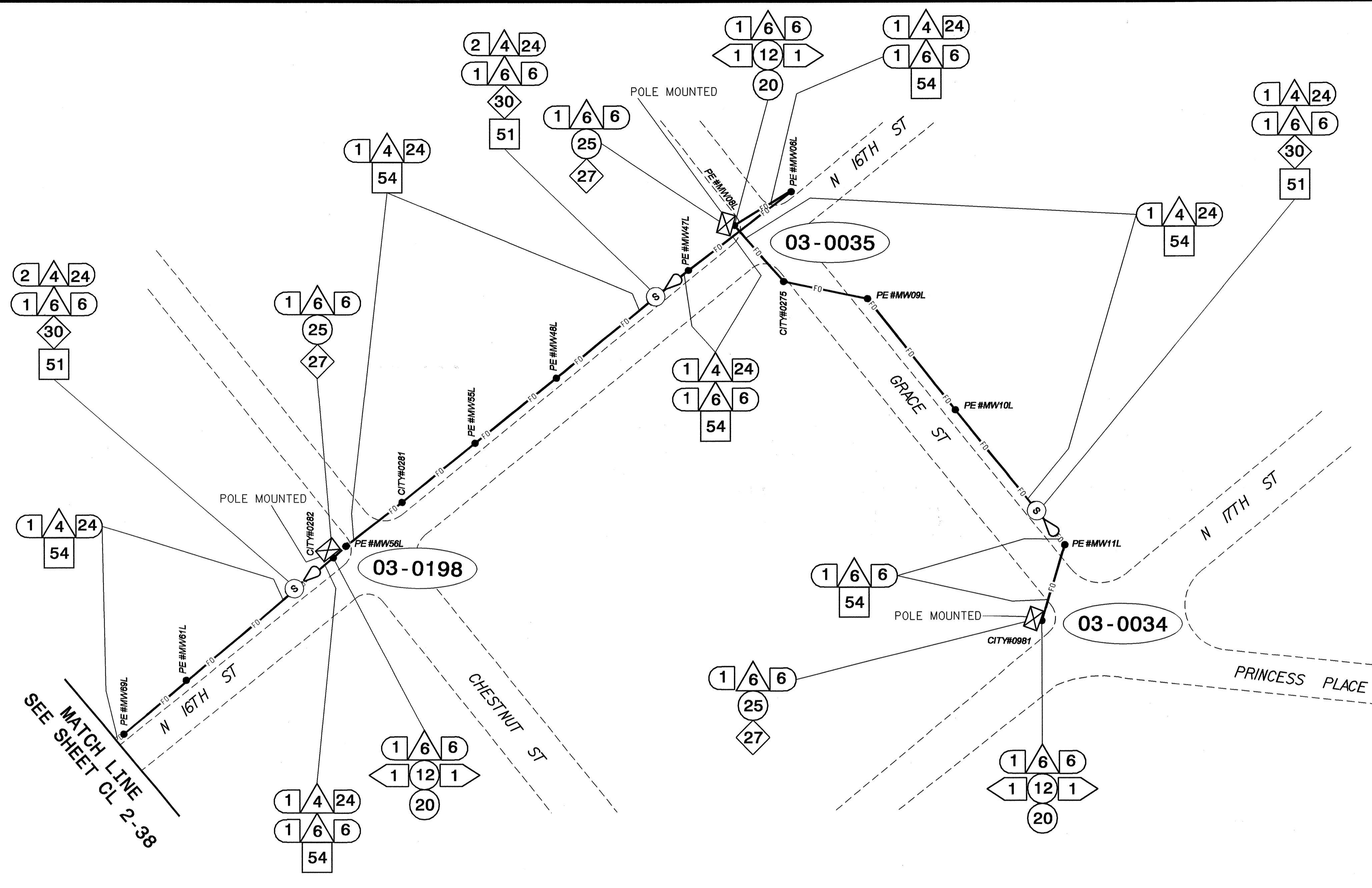
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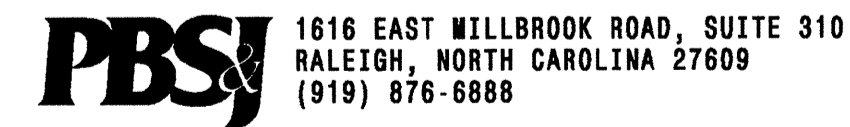
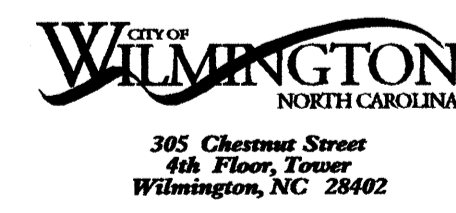
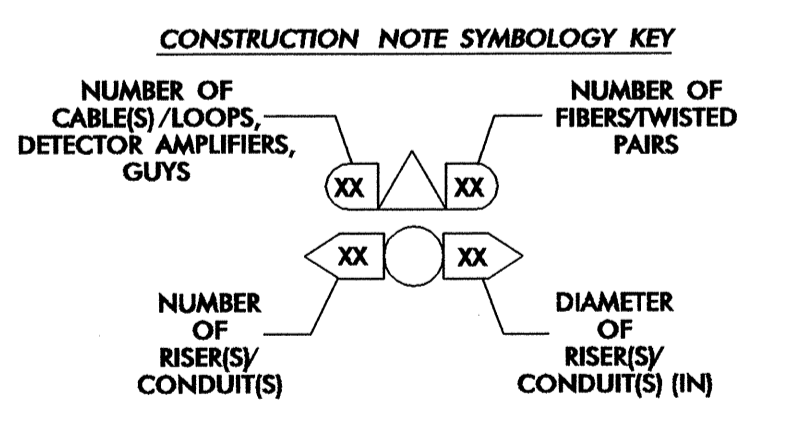
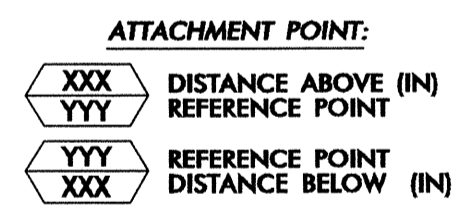


This area has been determined to contain properties with documented historic significance. If it is necessary to deviate from these plans in this area, alert the Engineer to contact Project Development and Environmental Analysis Branch - Historic Architecture Group of the North Carolina Department of Transportation for an effects determination before proceeding.

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____

INIT. DATE

Signature: Lisa M. Moon 7-23-08

CADD File Name: CL2-039.DGN

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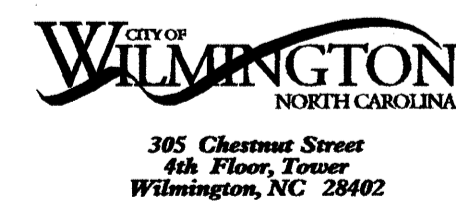
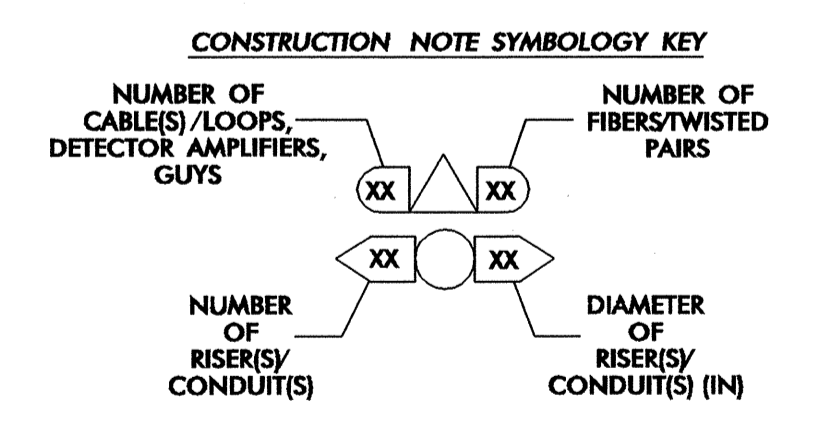
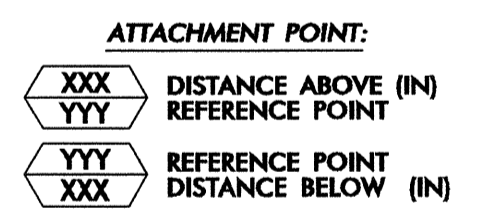
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

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1"=50'

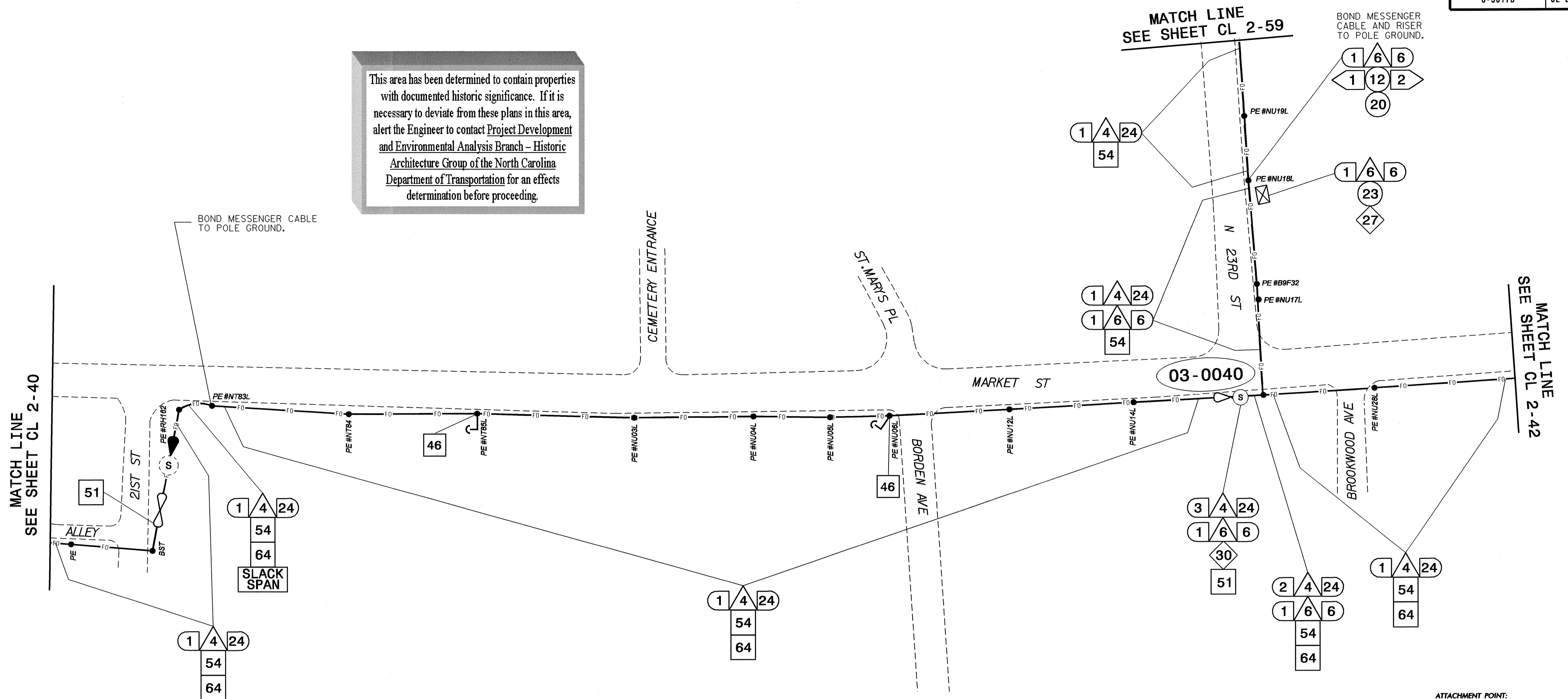
REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
022516

Signature: Lisa M. Moon 7-23-08
DATE: 7-23-08

CADD FILE NAME: CL 2-040.DGN

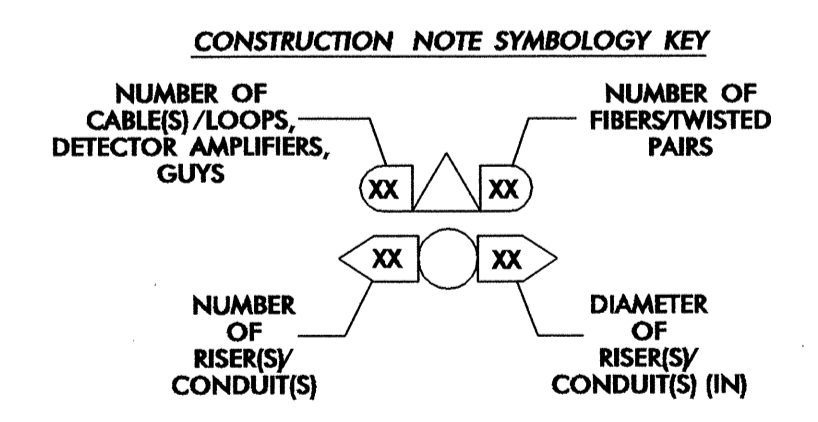
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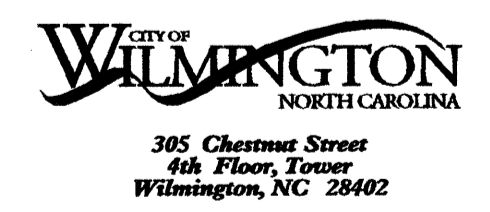
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



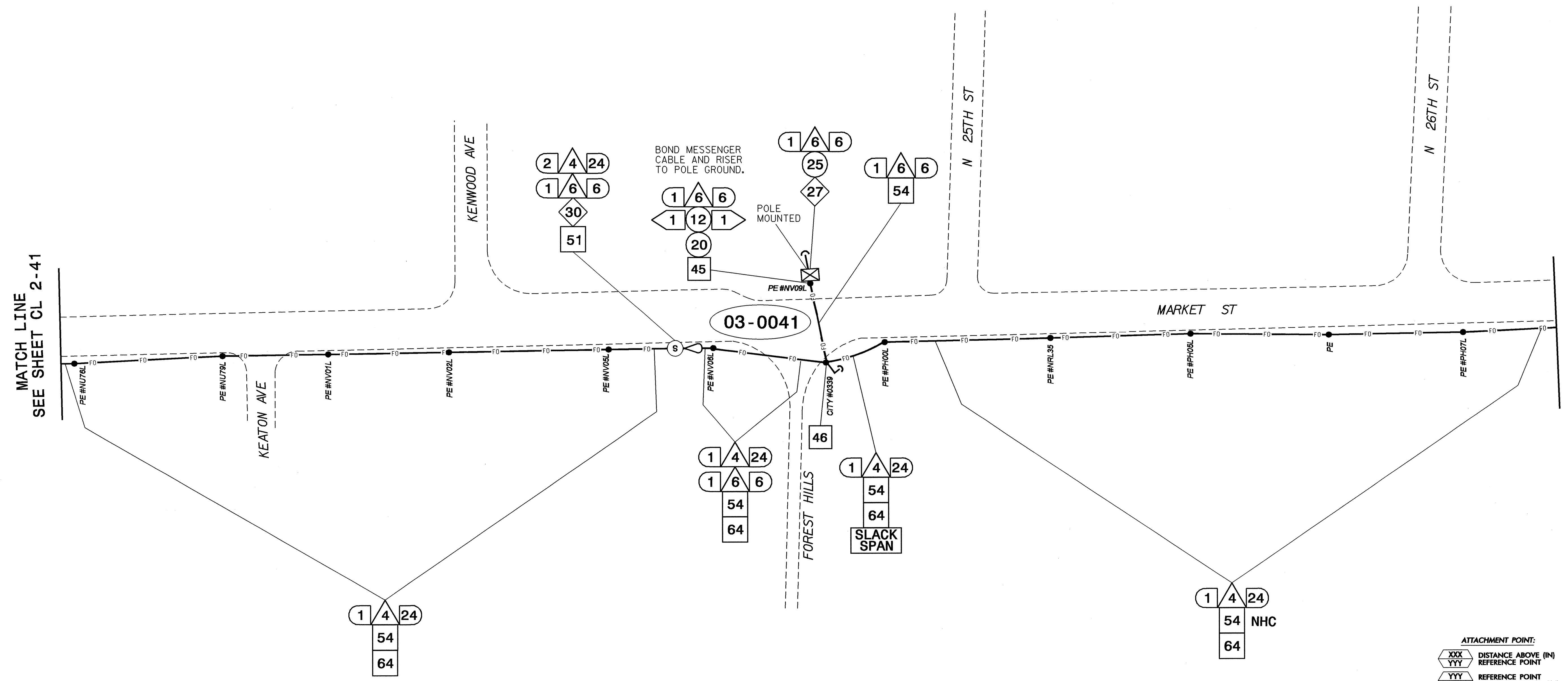
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888

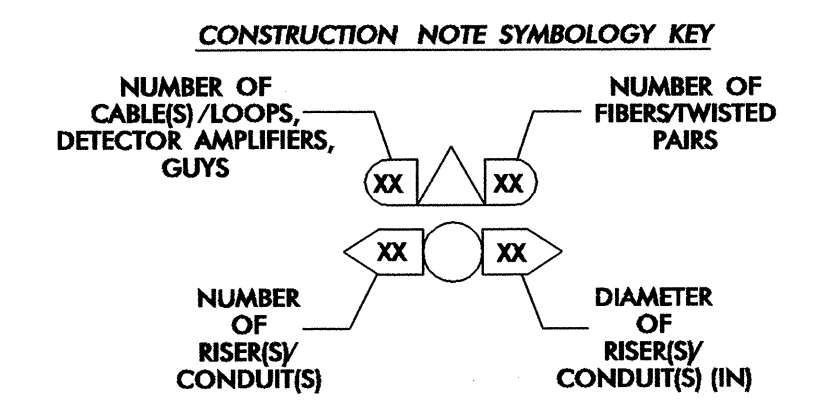
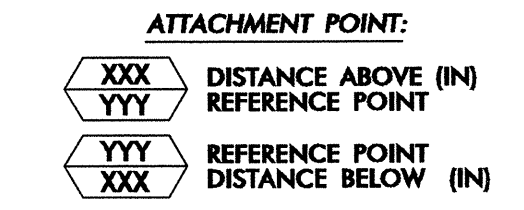
Prepared for the Office of:
Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 REVISIONS: _____ INIT. DATE _____

 SIGNATURE: *Lisa M. Moon* DATE: 7-23-08
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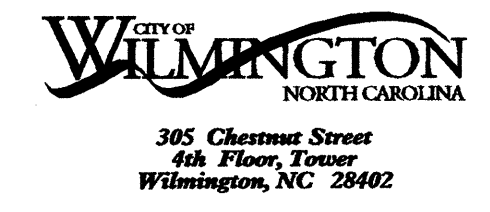


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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

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750 Greenfield Parkway, Garner, NC 27529

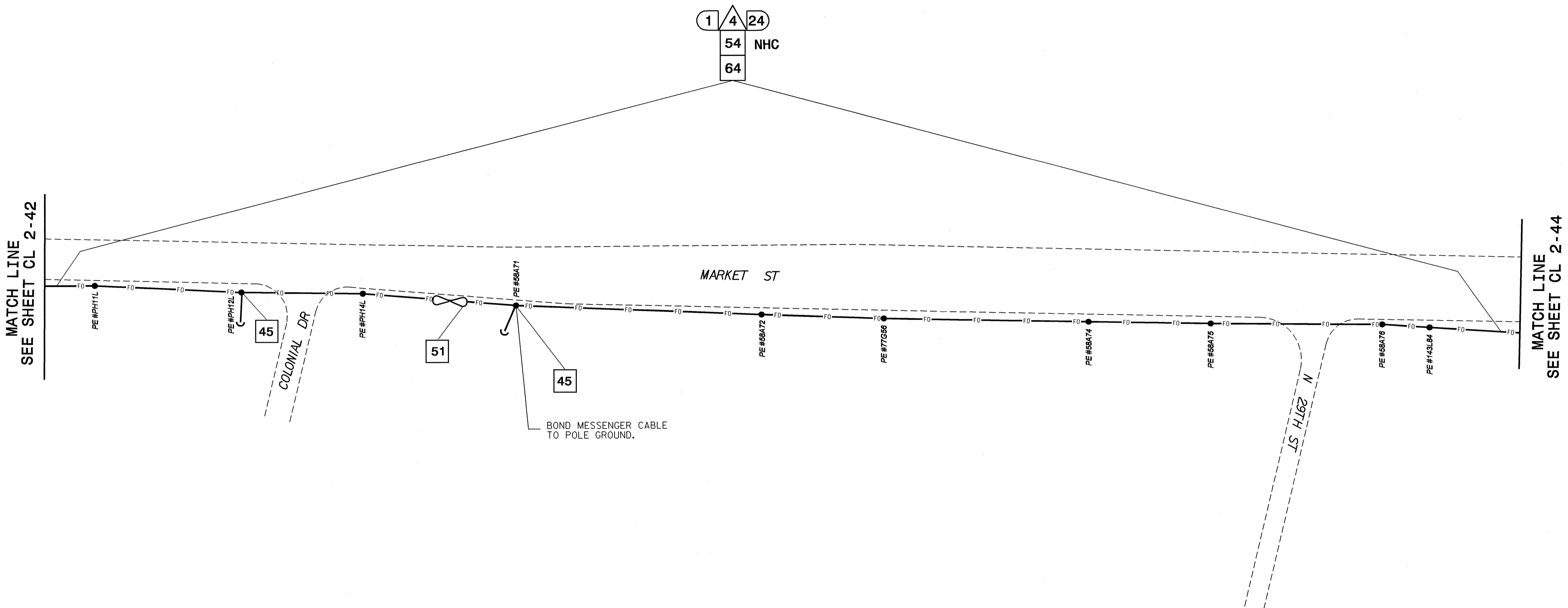
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SIGNATURE: Lisa M. Moon DATE: 7-23-08

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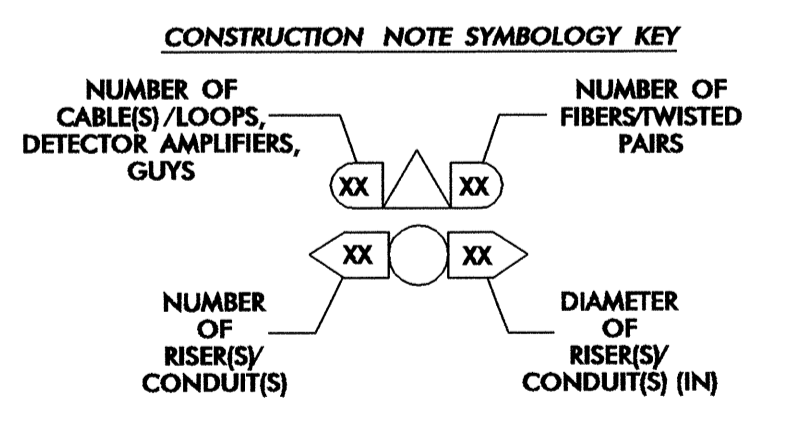
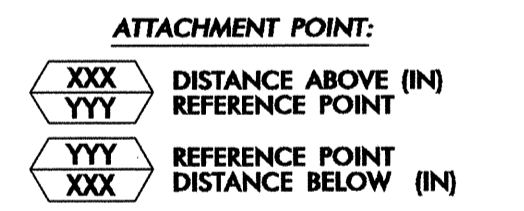
BOND MESSENGER CABLE TO POLE GROUND.

MATCH LINE
SEE SHEET CL 2-42

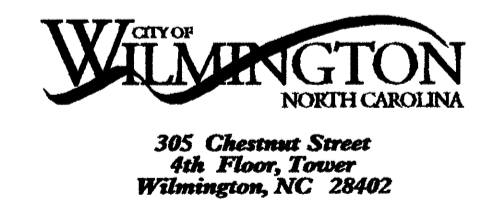
MATCH LINE
SEE SHEET CL 2-44

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Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

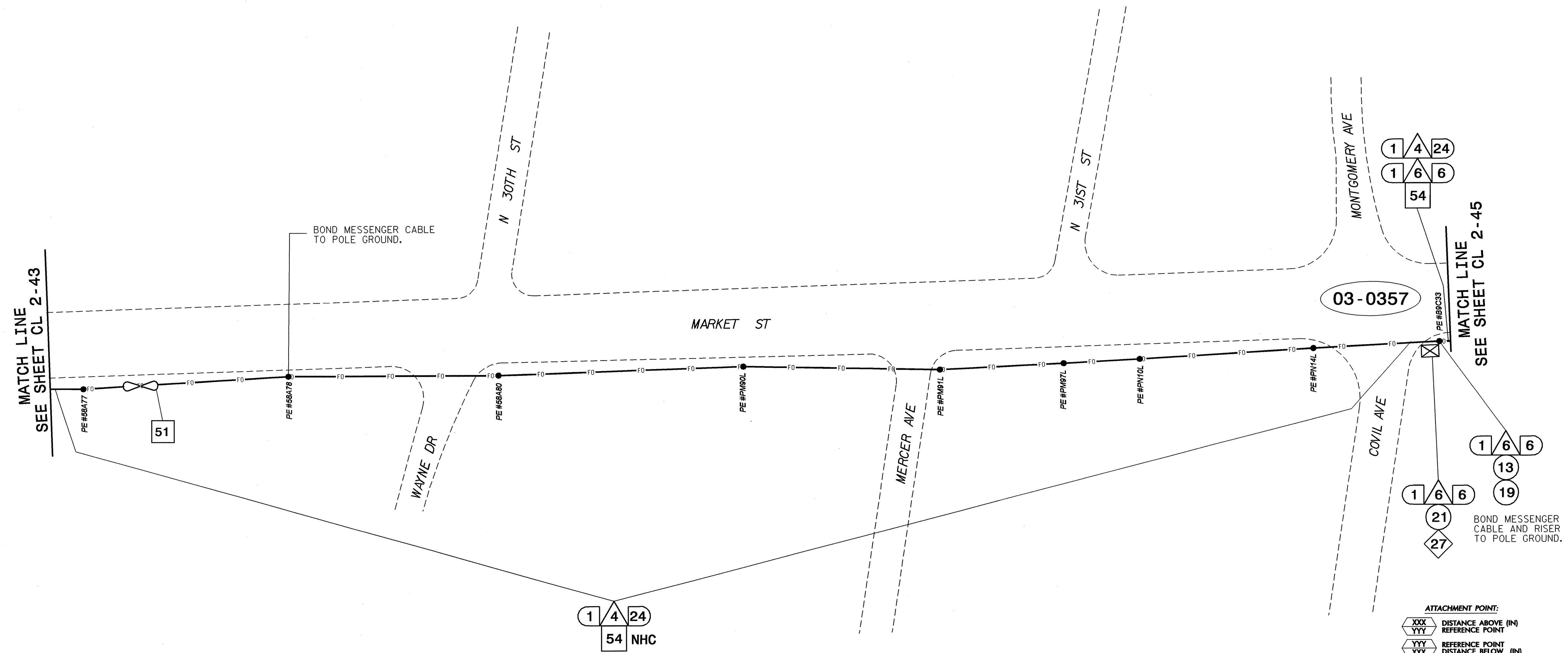
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

750 Greenfield Parkway, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
022516
F. M. MOON
7-23-08
DATE
CADD File name: CL 2-043.DGN

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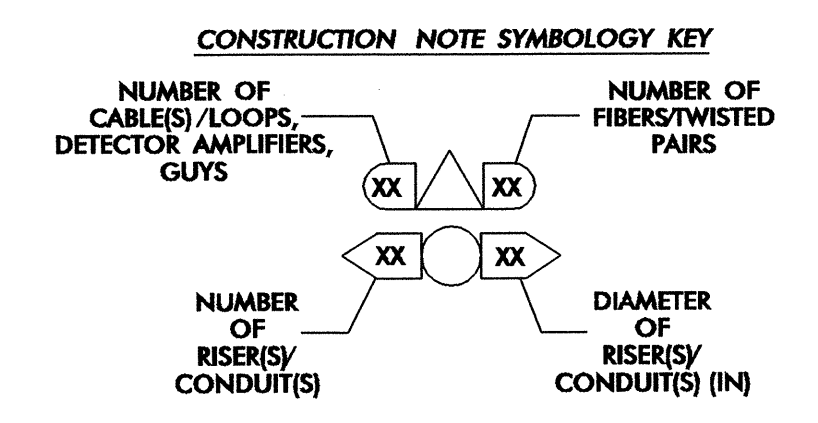
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3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
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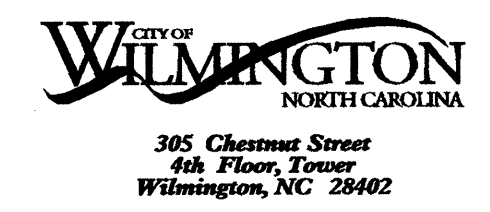
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XXX REFERENCE POINT DISTANCE BELOW (IN)



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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

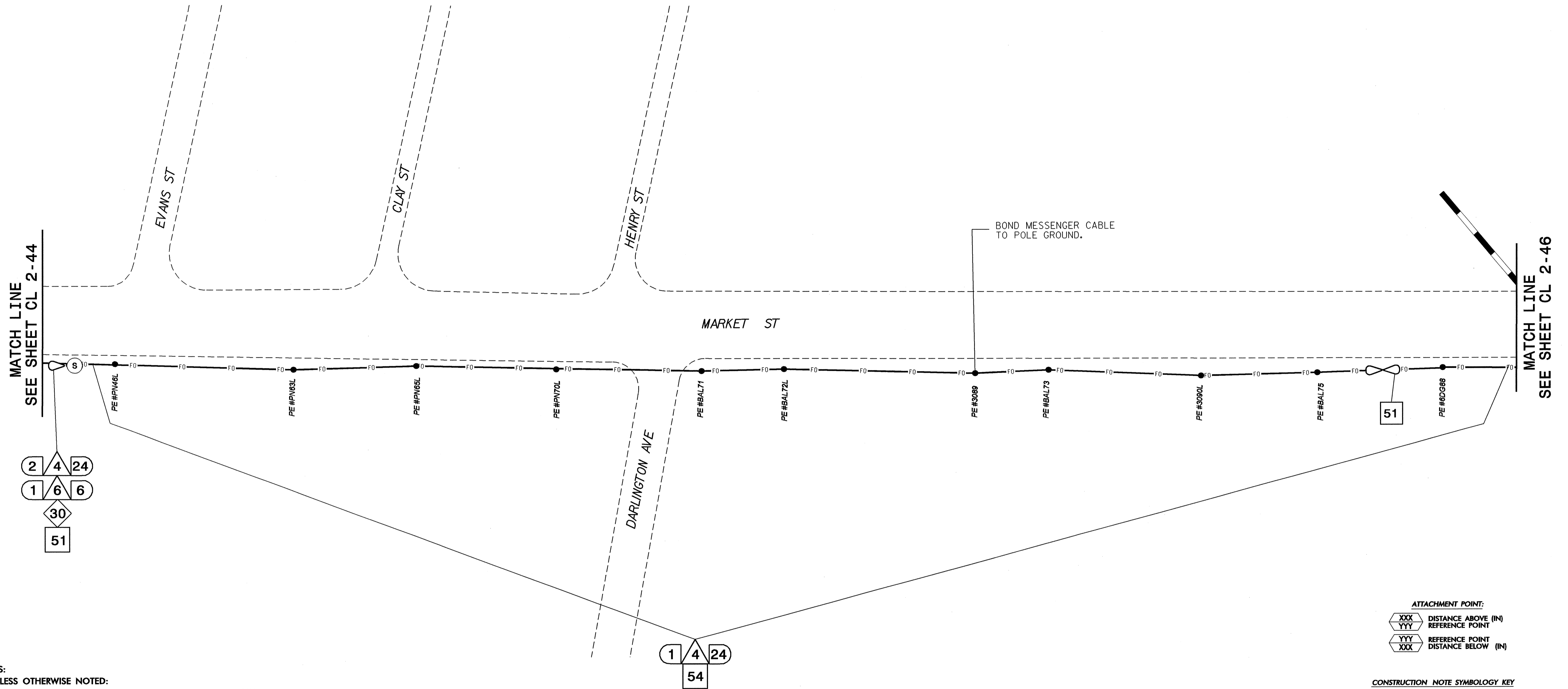
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REVISIONS: _____ INIT. DATE

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1" = 50'

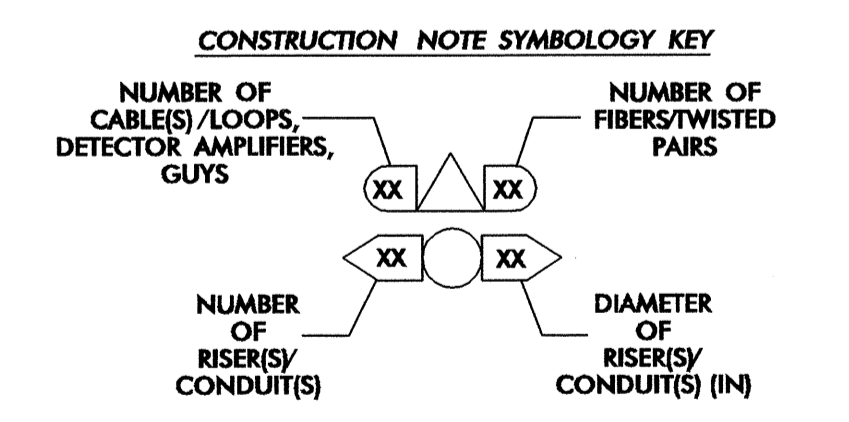
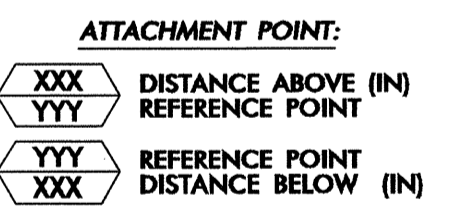
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NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 022516
SIGNATURE: Lisa M. Moon 7-23-08
DATE: 7-23-08
CADD Filename: CL 2-044.DGN



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CITY OF WILMINGTON
305 Chestnut Street
4th Floor, Tower
Wilmington, NC 28402

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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

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PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

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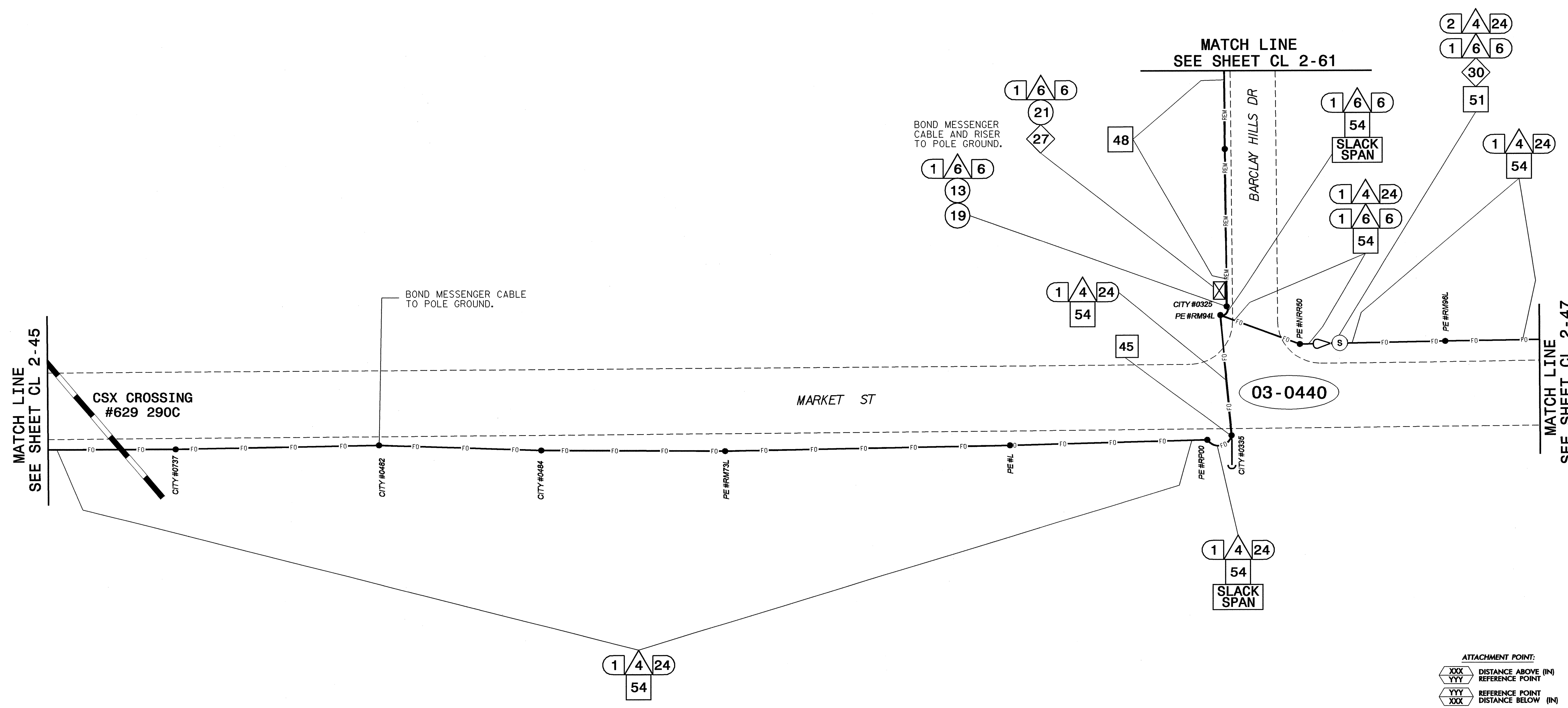
REVISIONS

INIT. DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
022516

DATE: 7-13-08

CADD FILE NAME: CL 2-045.DGN



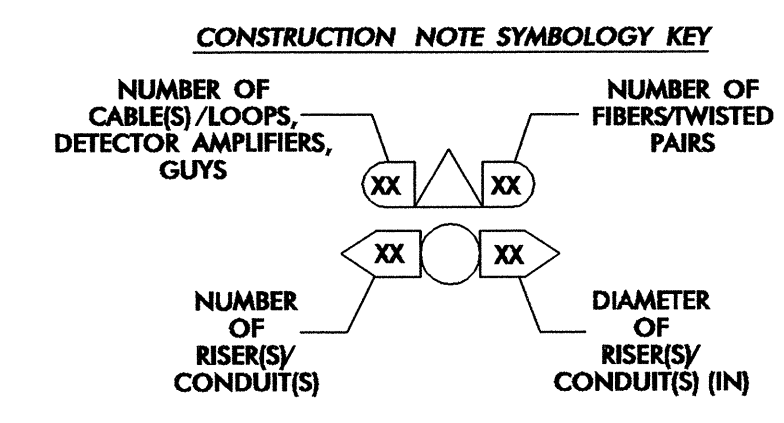
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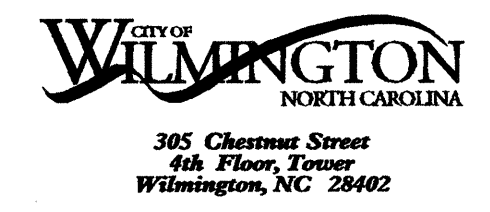
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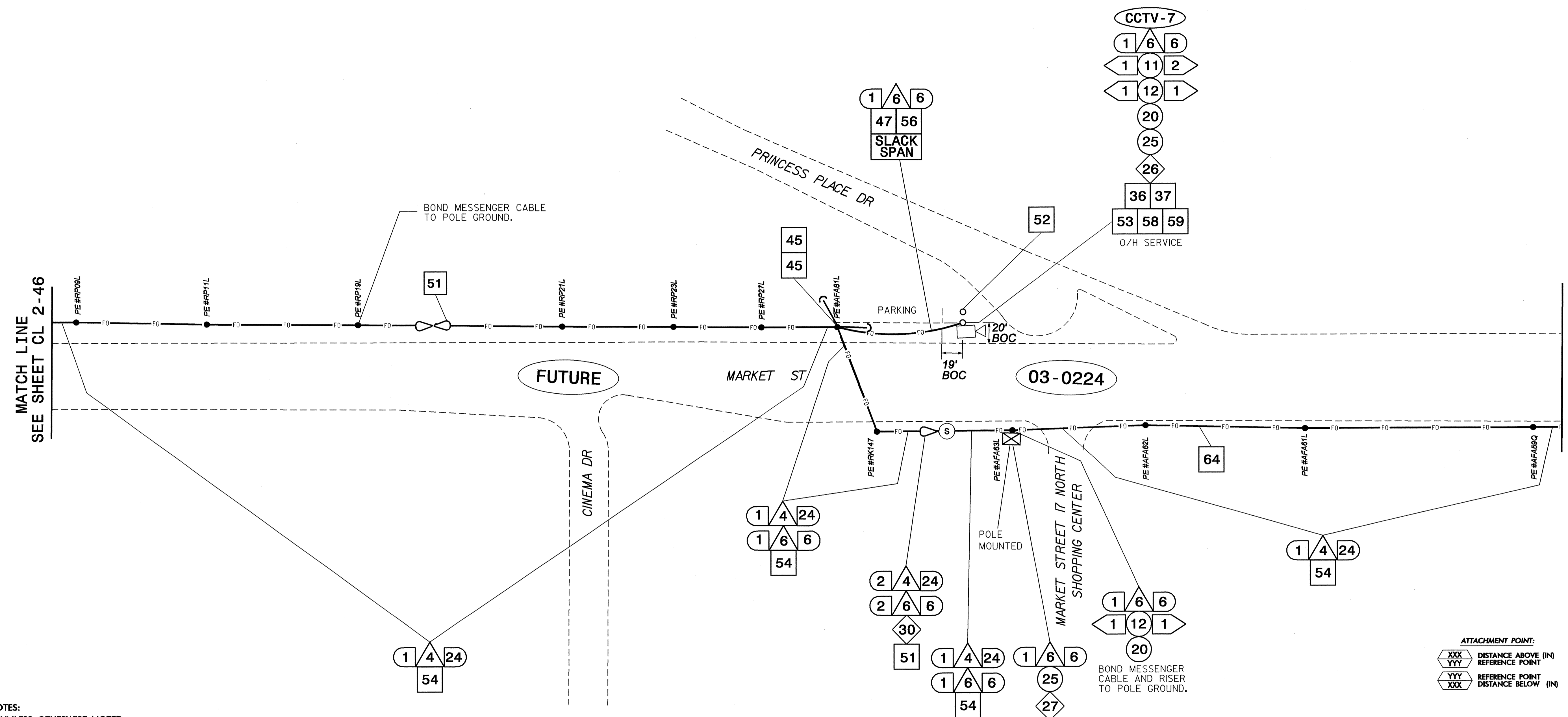
SEAL

LISA M. MOON
ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL
022516

SIGNATURE: *Lisa M. Moon* 7-23-08
DATE

CADD File Name: CL 2-046.DGN

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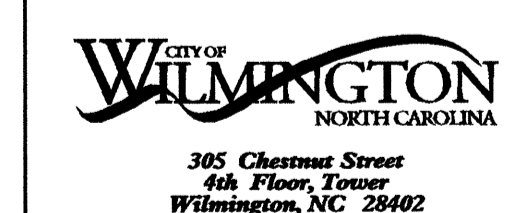
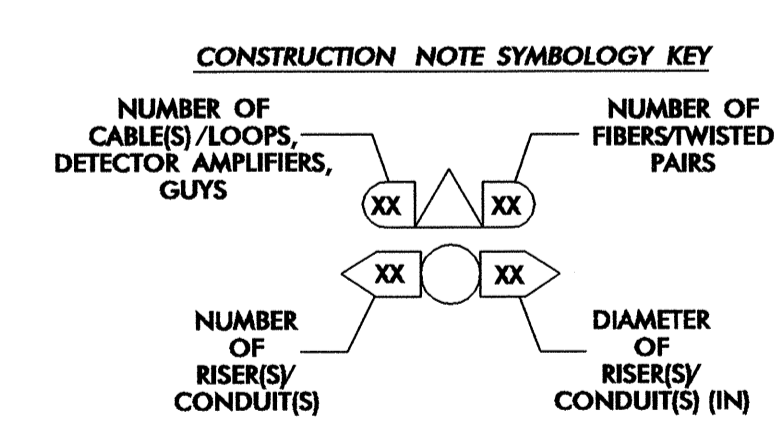
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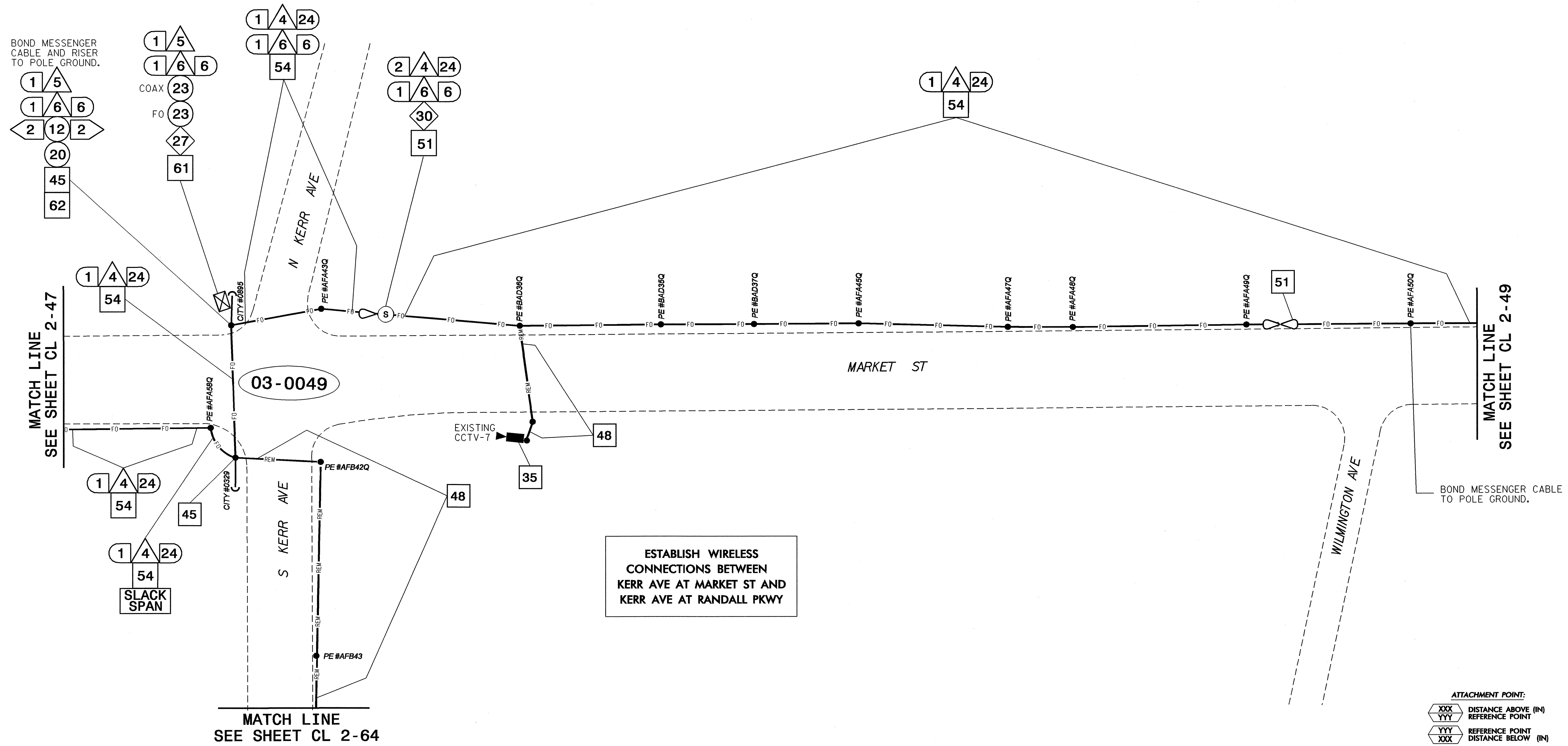
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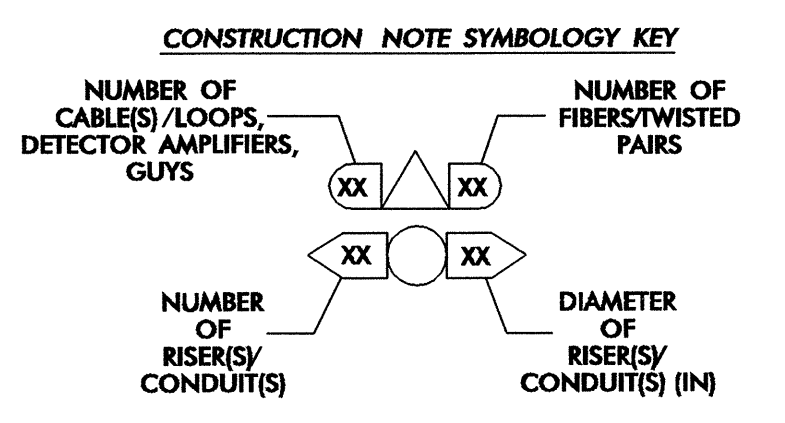
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ESTABLISH WIRELESS CONNECTIONS BETWEEN KERR AVE AT MARKET ST AND KERR AVE AT RANDALL PKWY

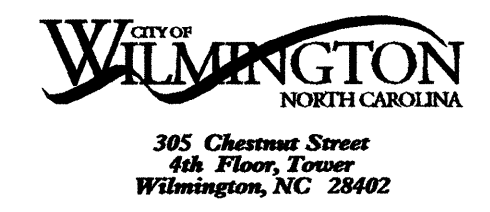
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5 INSTALL COAXIAL CABLE	16 BORE AND JACK CONDUIT	27 INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49 REMOVE EXISTING COMMUNICATIONS CABLE	60 INSTALL OMNI-DIRECTIONAL ANTENNA
6 INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17 INSTALL CABLE(S) IN EXISTING CONDUIT	28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPlice CABLE IN CABINET	39 INSTALL SPECIAL-SIZED JUNCTION BOX	50 INSTALL TELEPHONE SERVICE	61 INSTALL 900MHZ RADIO
7 INSTALL TRACER WIRE	18 INSTALL CABLE(S) IN NEW CONDUIT	29 INSTALL UNDERGROUND SPlice ENCLOSURE	40 INSTALL OVERSIZED JUNCTION BOX	51 INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE	62 INSTALL DIRECTIONAL ANTENNA
8 INSTALL CONDUIT UNDERGROUND	19 INSTALL CABLE(S) IN EXISTING RISER(S)	30 INSTALL AERIAL SPlice ENCLOSURE	41 REMOVE EXISTING JUNCTION BOX	52 INSTALL SERVICE POLE	63 MAINTAIN EXISTING COMMUNICATION CABLE(S)
9 INSTALL PVC CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 NOT USED	42 INSTALL WOOD POLE	53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)	64 INSTALL AERIAL CABLE PROTECTOR
10 INSTALL RIGID, GALVANIZED STEEL CONDUIT	21 INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	32 NOT USED	43 REMOVE EXISTING WOOD POLE	54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LW Wood/MR Cooney

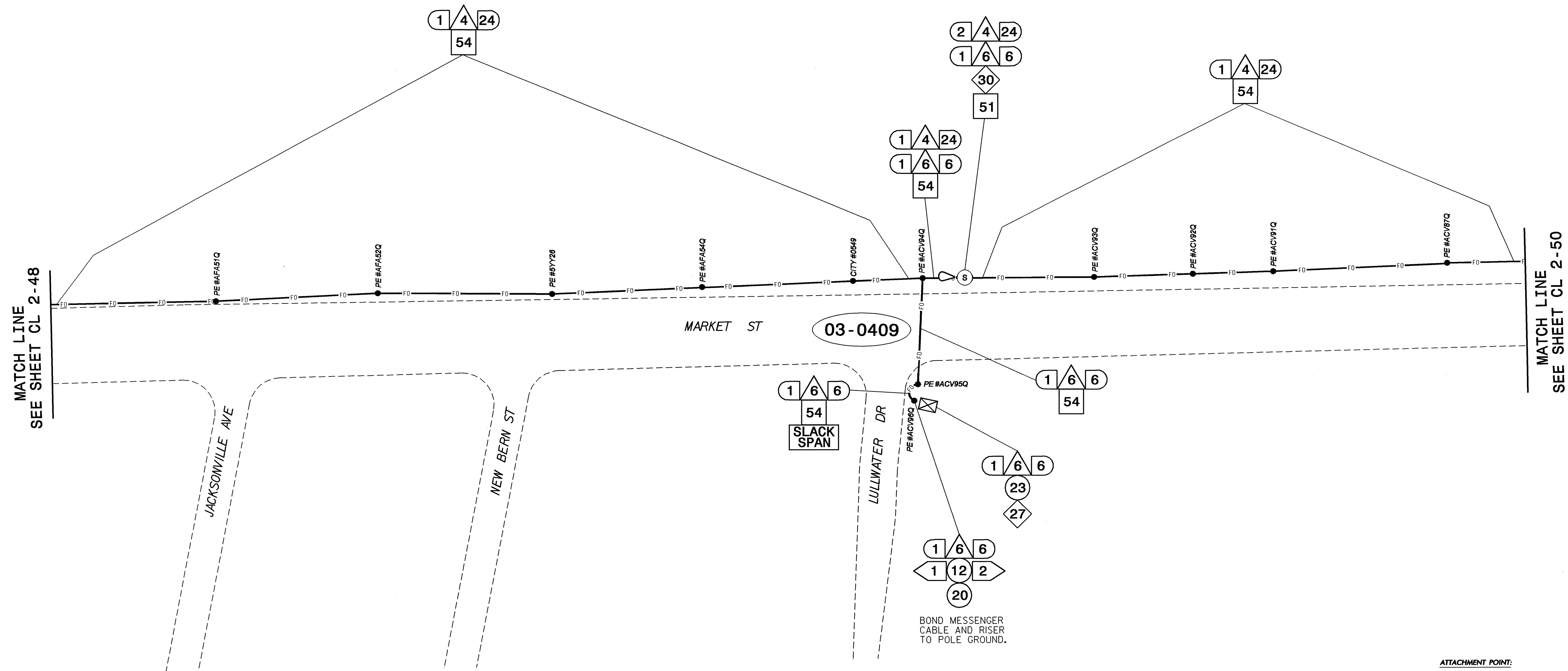
REVISIONS: _____

INIT. DATE

Signature: Lisa M. Moon 7/23/08
 DATE

CADD File Name: CL 2-048.DGN

23-JUL-2008 09:51
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NOTES:

- UNLESS OTHERWISE NOTED:
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLY KEY

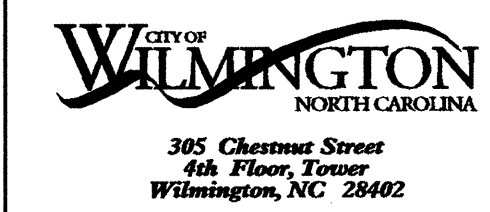
NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS: XX

NUMBER OF FIBER/TWISTED PAIRS: XX

NUMBER OF RISER(S) CONDUIT(S): XX

DIAMETER OF RISER(S) CONDUIT(S) (IN): XX

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING RETROFIT KIT	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34. REMOVE EXISTING WIRELESS SYSTEM	45. INSTALL DOWN GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE
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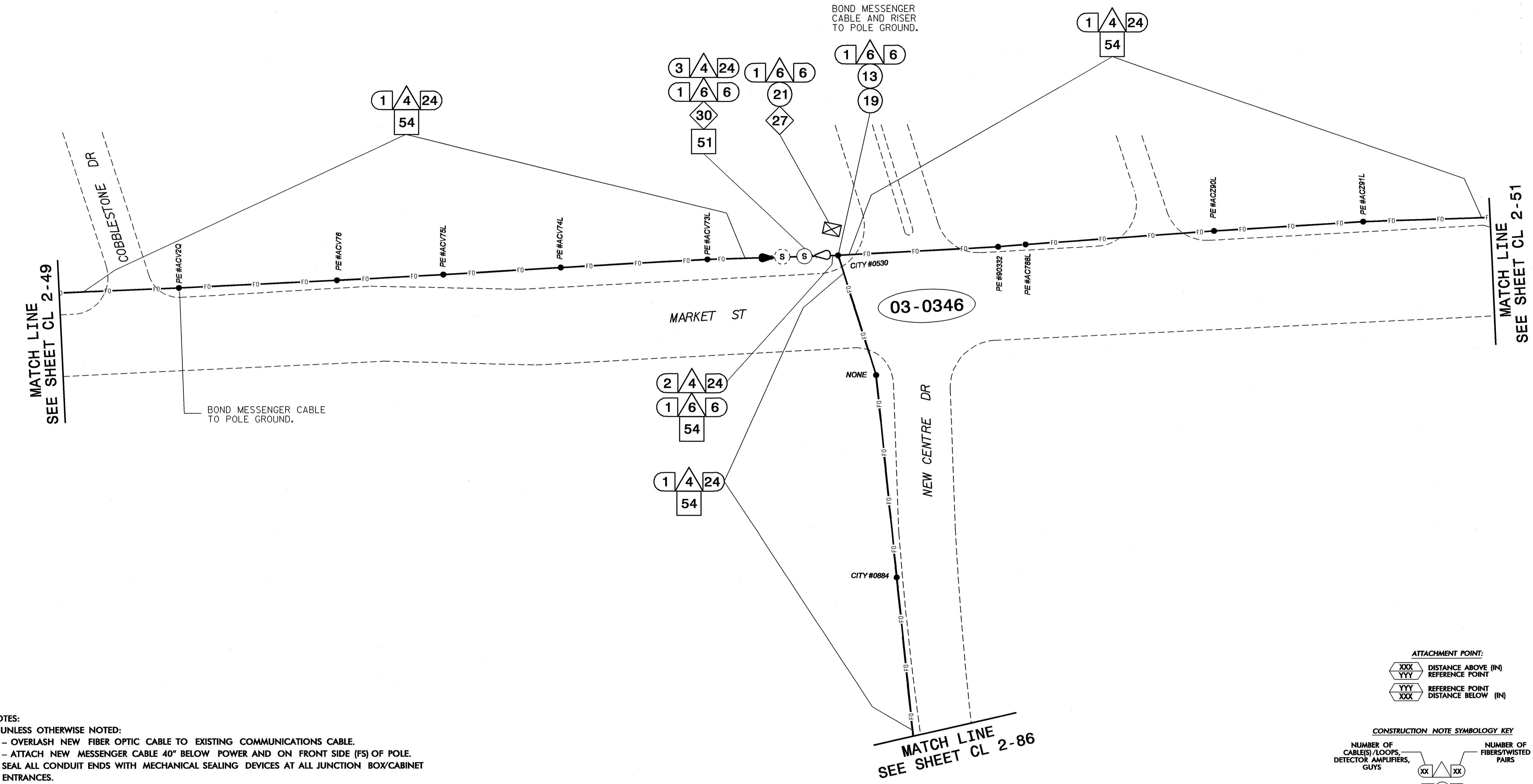
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 REVISIONS: _____ INIT.: _____ DATE: _____

 SIGNATURE: Lisa M. Moon DATE: 7-23-08
 CAD FILE NAME: CL 2-049.DGN

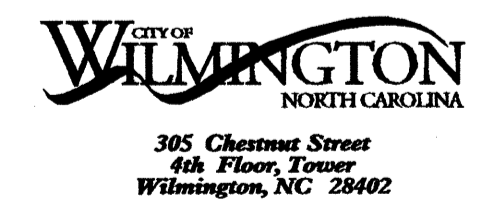
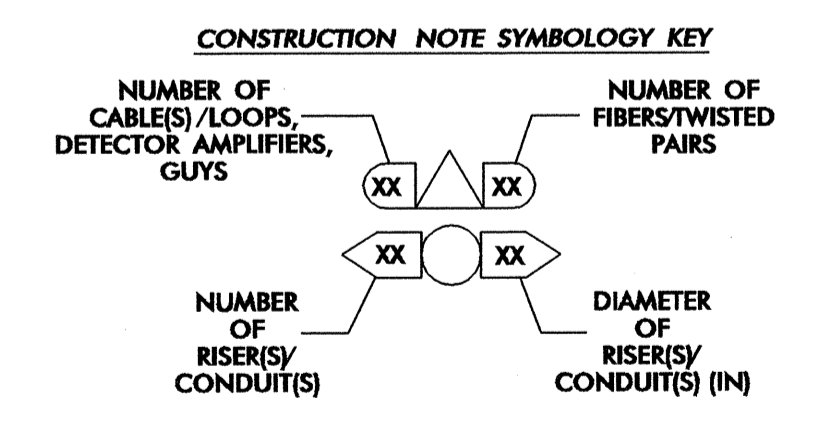
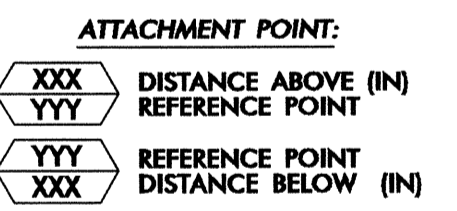
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

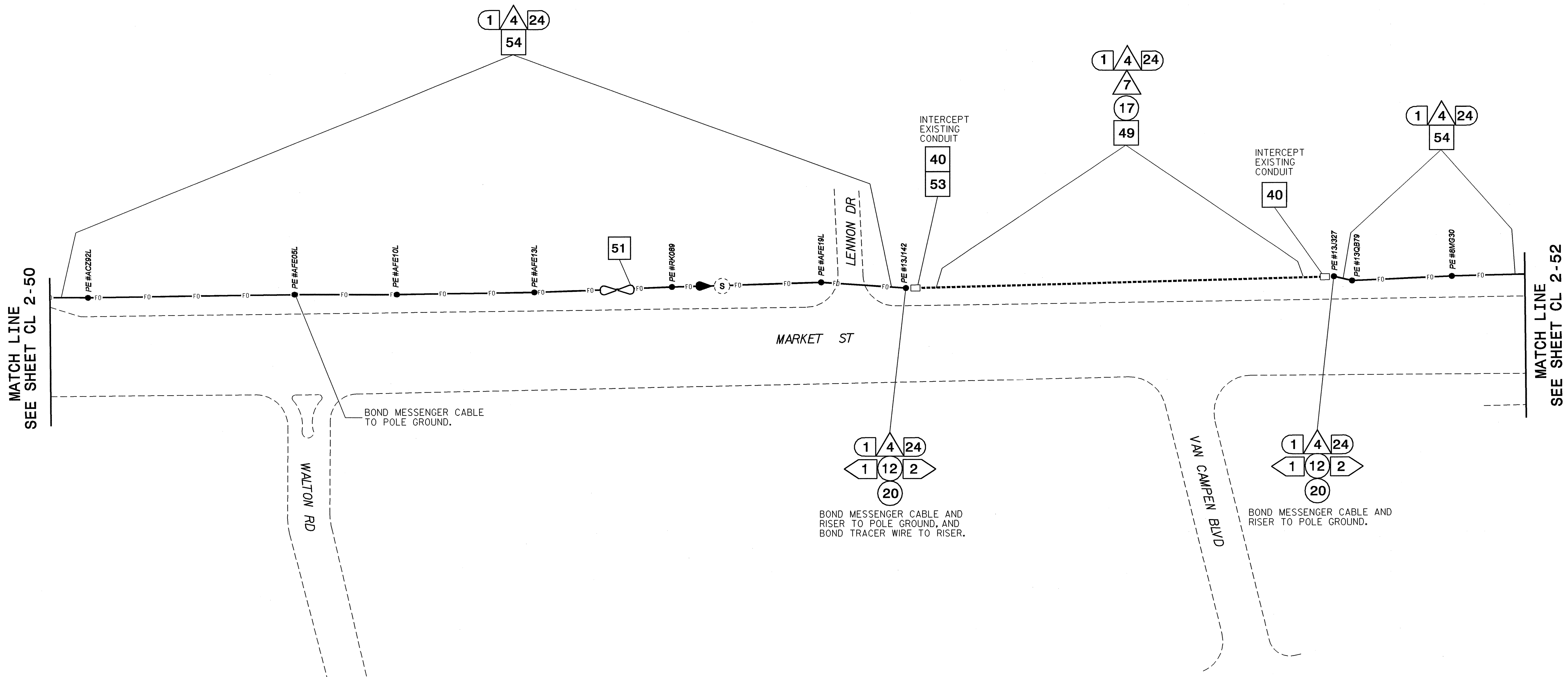
PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

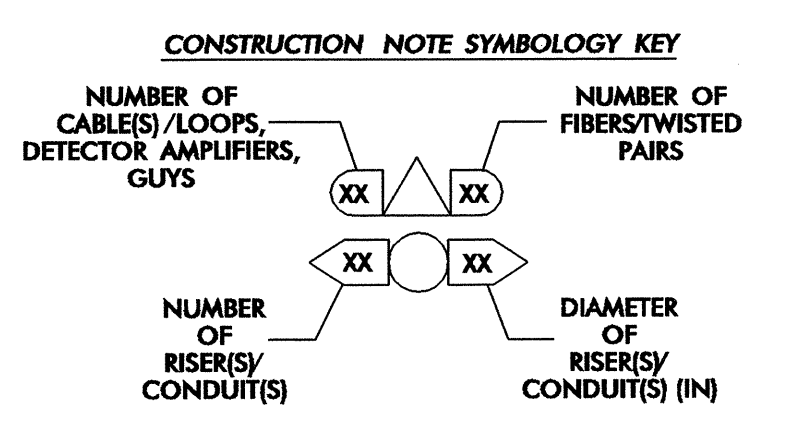
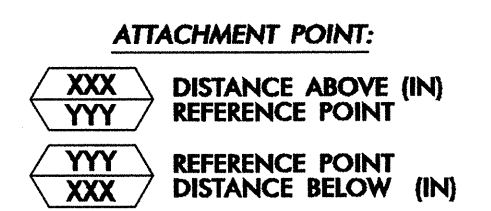
REVISIONS	INIT.	DATE

Signature: Lisa M. Moon 7-23-08
DATE: 7-23-08
CAD FILE NAME: CL 2-050.DGN

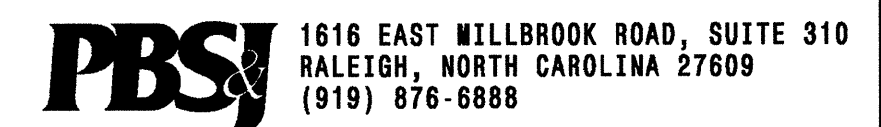
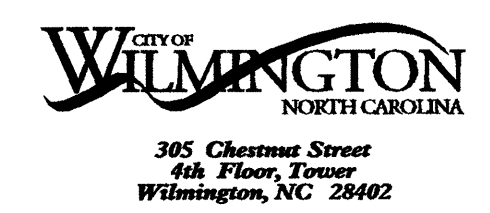
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

Signature: Lisa M. Moon 7-23-08
DATE: 7-23-08

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022516 LISA M. MOON

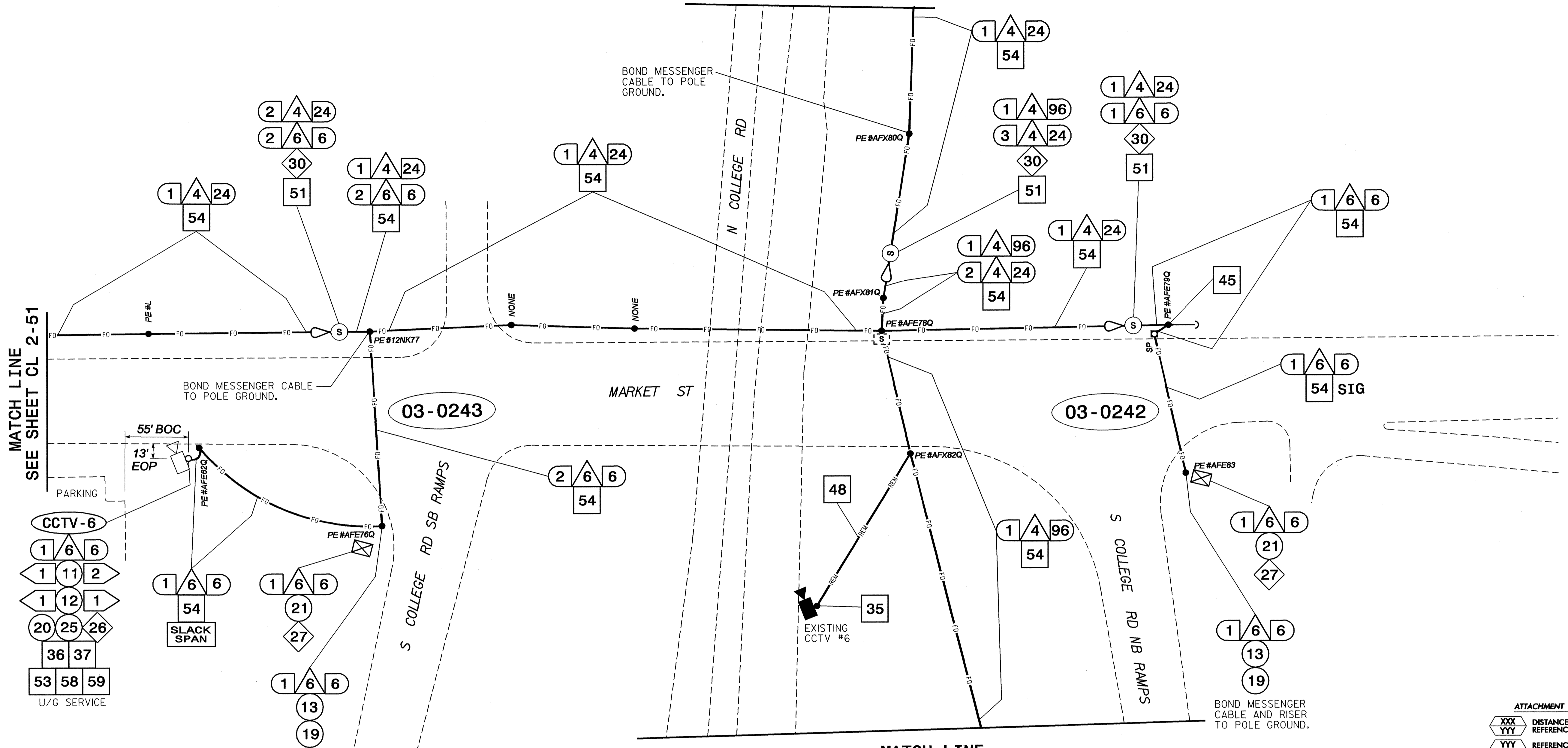
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MATCH LINE
SEE SHEET CL 2-78

MATCH LINE
SEE SHEET CL 2-51

MATCH LINE
SEE SHEET CL 2-77



ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
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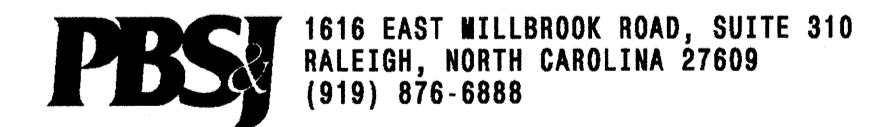
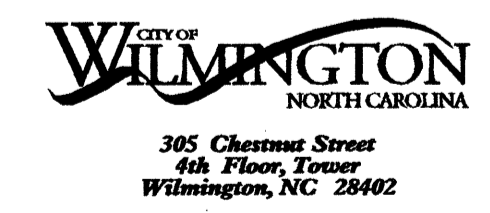
CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS	XX	NUMBER OF FIBER/TWISTED PAIRS	XX
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Prepared for the Offices of:
 Traffic Engineering and Safety Services
 City of Wilmington
 Department of Transportation

Wilmington Signal System Cable Layout Plans Phase 2

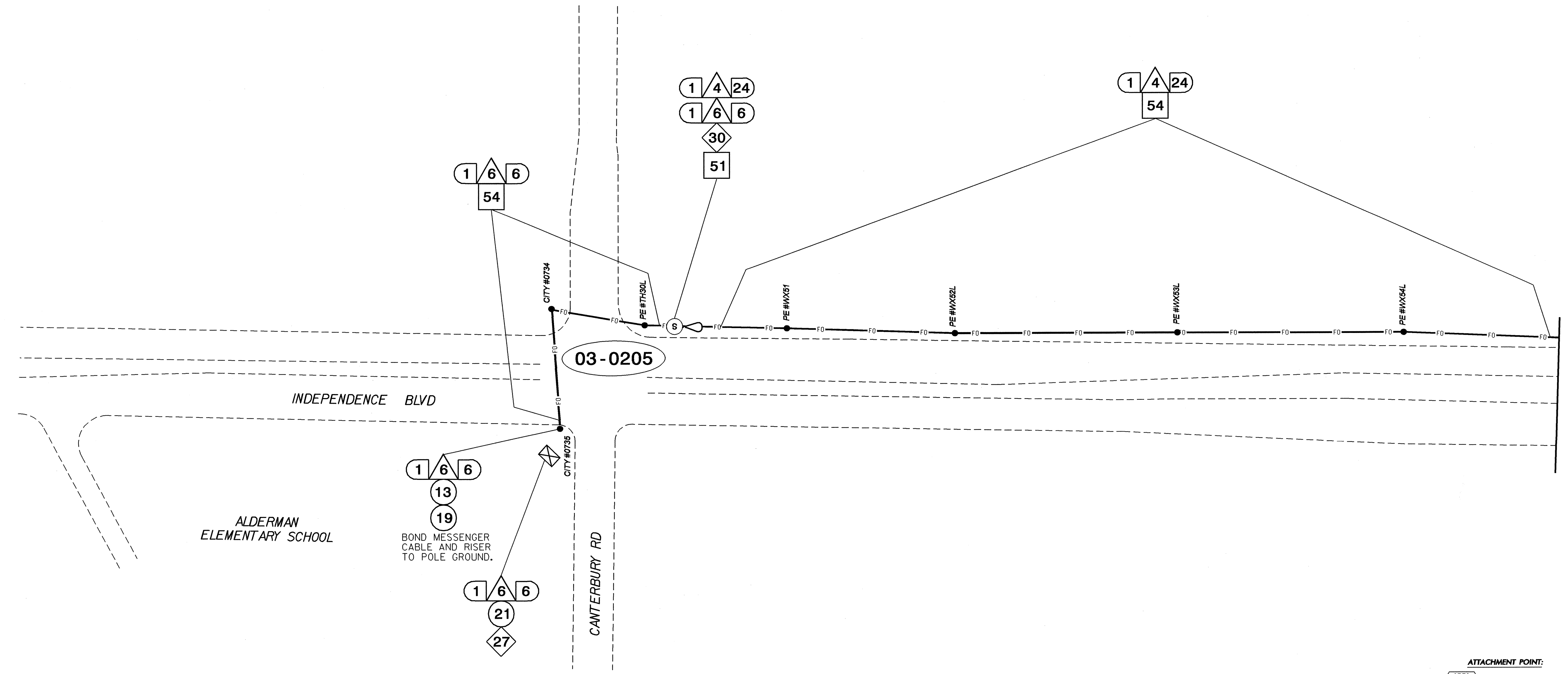
Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

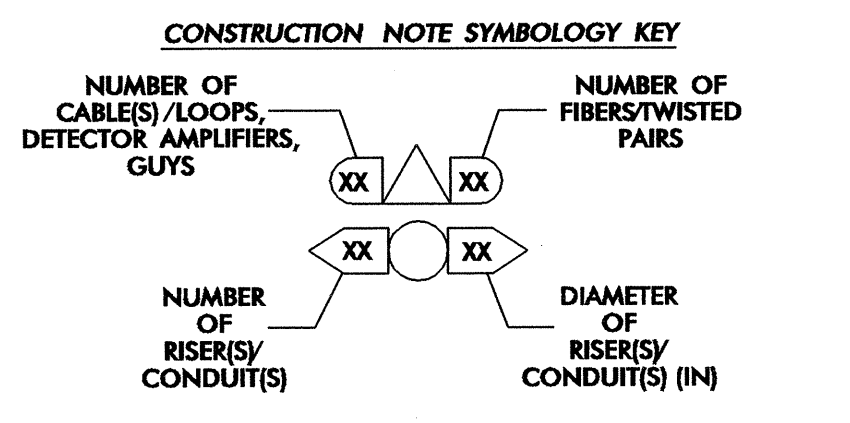
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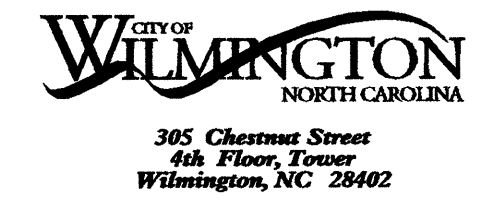
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ATTACHMENT POINT:
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 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



- NOTES:**
- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
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2 INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13 INSTALL HEAT SHRINK TUBING RETROFIT KIT	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35 REMOVE EXISTING CCTV CAMERA ASSEMBLY	46 INSTALL SIDEWALK GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3 INSTALL CATEGORY 5E CABLE	14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25 INSTALL NEW RISER INTO POLE MOUNTED CABINET	36 INSTALL CCTV CAMERA ASSEMBLY	47 INSTALL MESSENGER CABLE	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV
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5 INSTALL COAXIAL CABLE	16 BORE AND JACK CONDUIT	27 INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49 REMOVE EXISTING COMMUNICATIONS CABLE	60 INSTALL OMNI-DIRECTIONAL ANTENNA
6 INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17 INSTALL CABLE(S) IN EXISTING CONDUIT	28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	39 INSTALL SPECIAL-SIZED JUNCTION BOX	50 INSTALL TELEPHONE SERVICE	61 INSTALL 900MHZ RADIO
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9 INSTALL PVC CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 NOT USED	42 INSTALL WOOD POLE	53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)	64 INSTALL AERIAL CABLE PROTECTOR
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PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

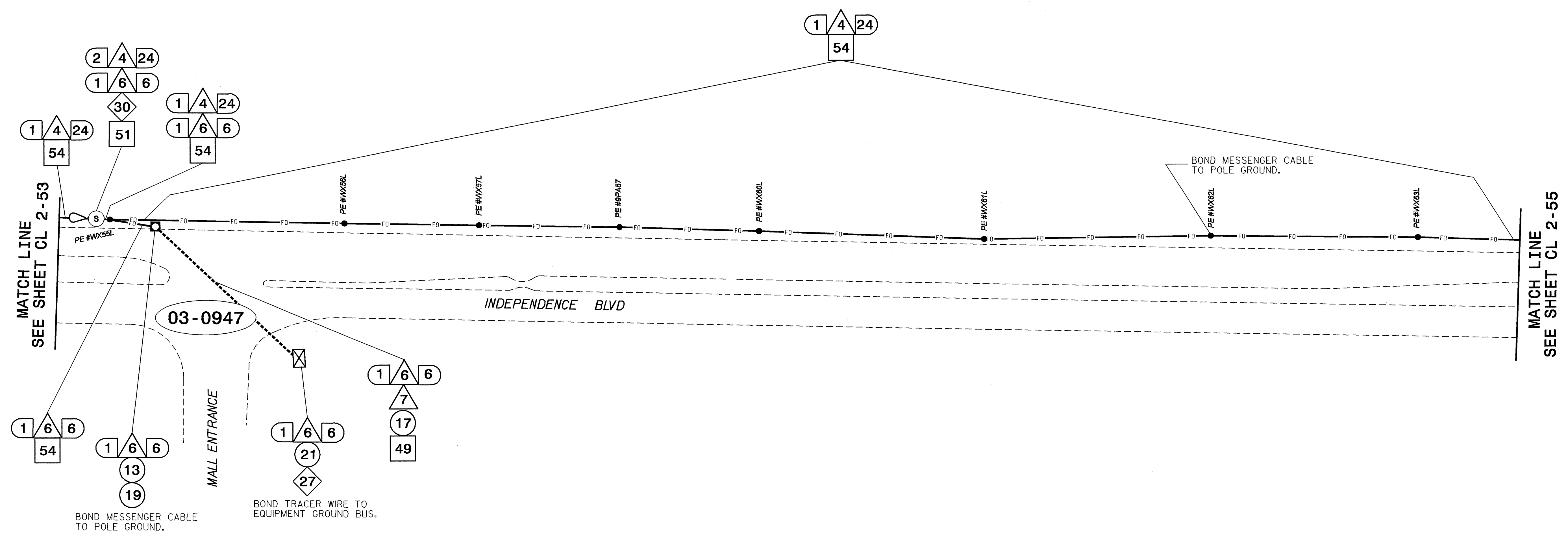
Prepared for the Office of:

Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 750 Greenfield Parkway, Garner, NC 27529

REVISIONS	INIT.	DATE

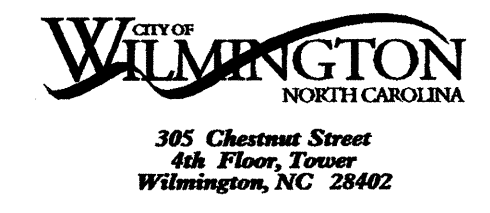
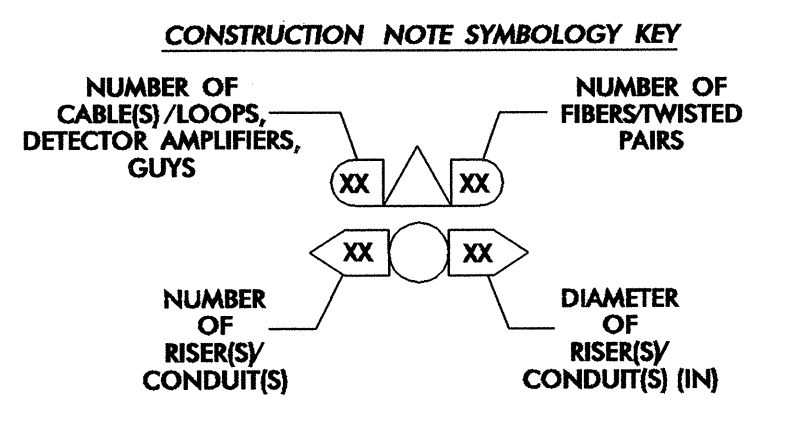
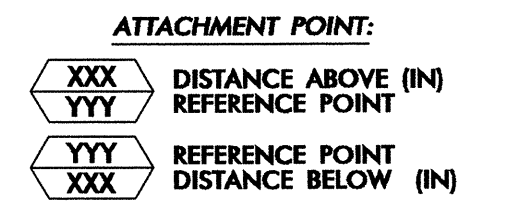
Signature: *Jim M. Moon* 7/23/08
 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 022516
 LISA M. MOON
 CAD File name: CL 2-053.DGN

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

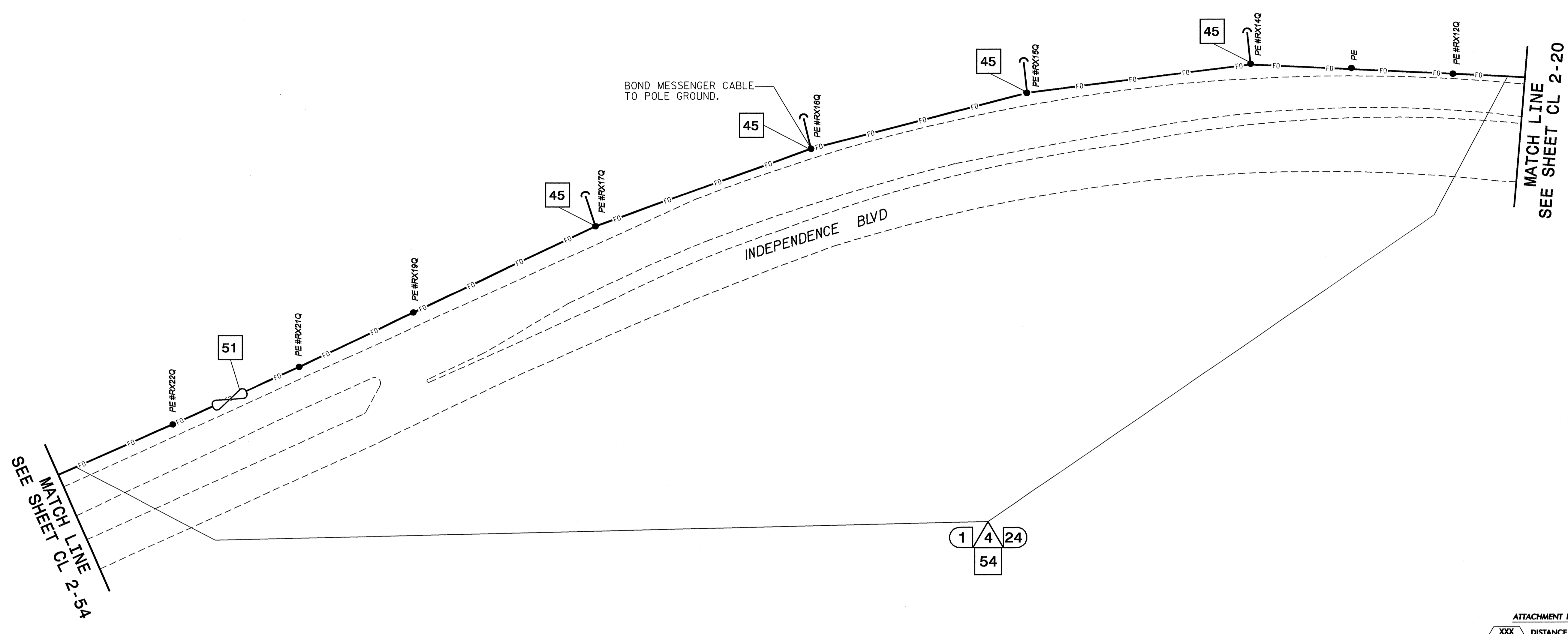
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SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER, LISA M. MOON, 022518

SIGNATURE: Lisa M. Moon DATE: 1-23-08

CADD File names: CL 2-054.DGN

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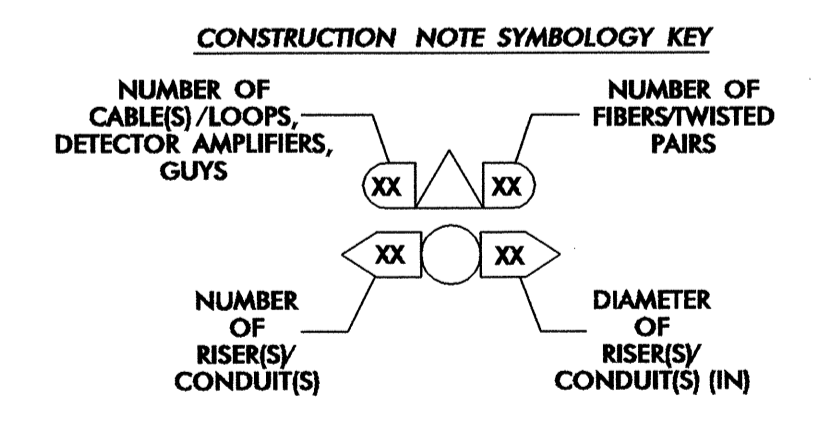
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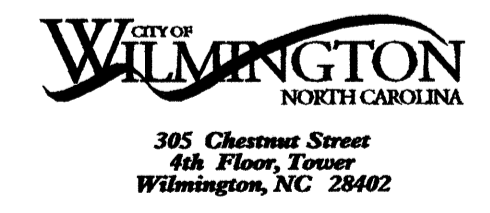
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
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Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

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REVISIONS: _____

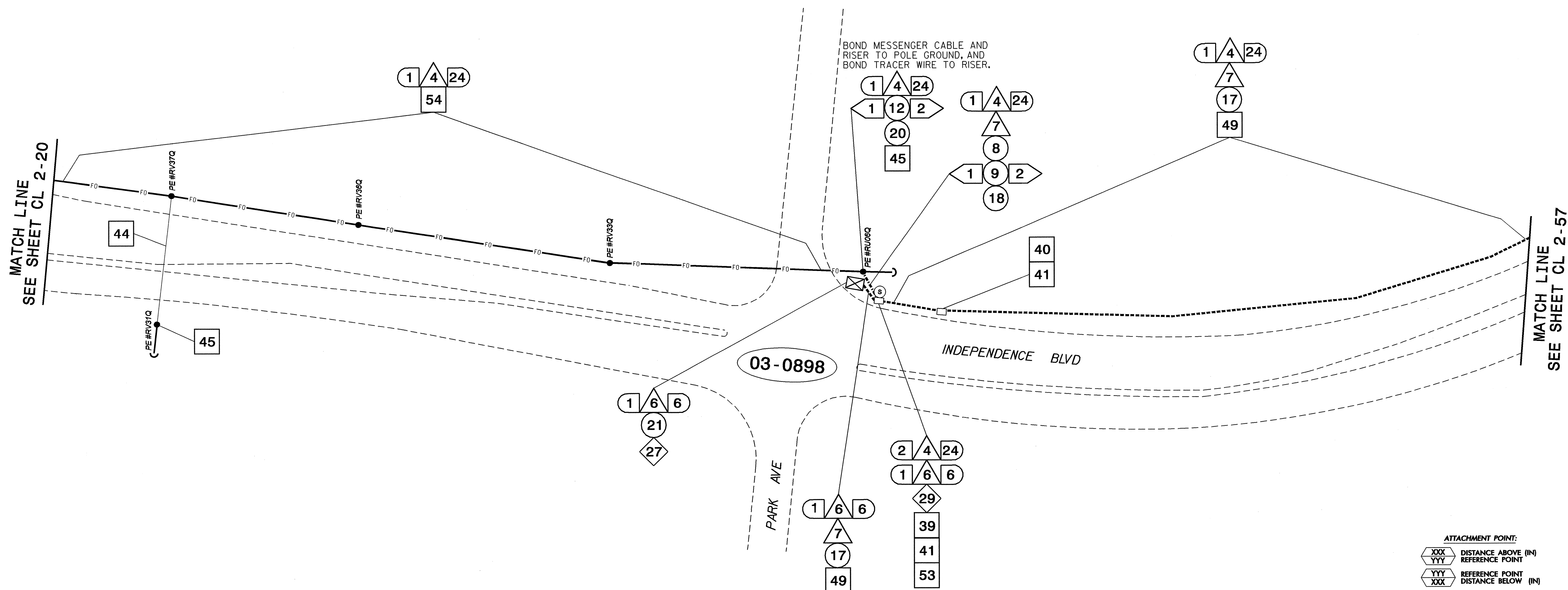
INIT. DATE

Lisa M. Moon 7/23/08
 SIGNATURE DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 022516
 LISA M. MOON

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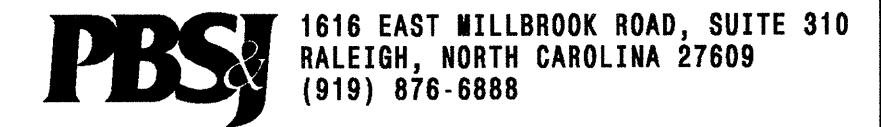
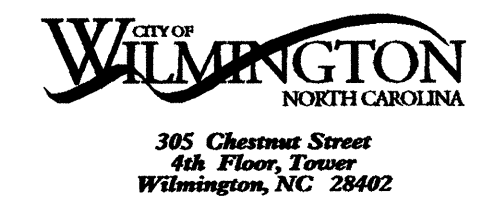
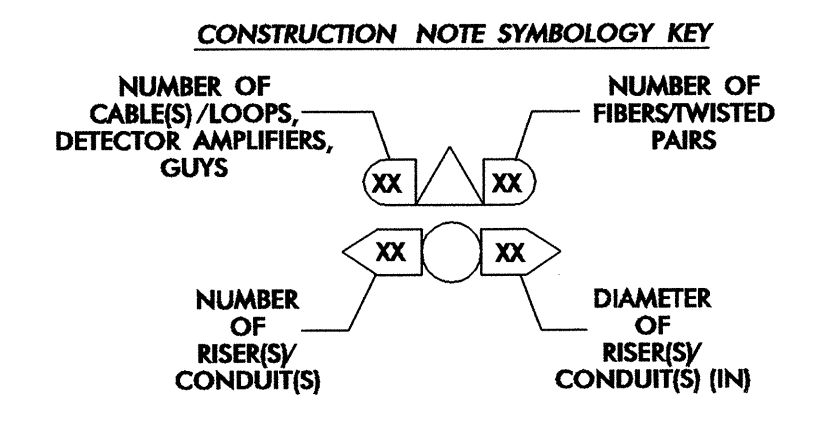
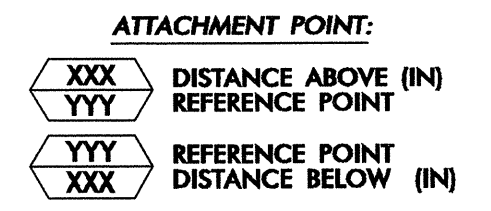
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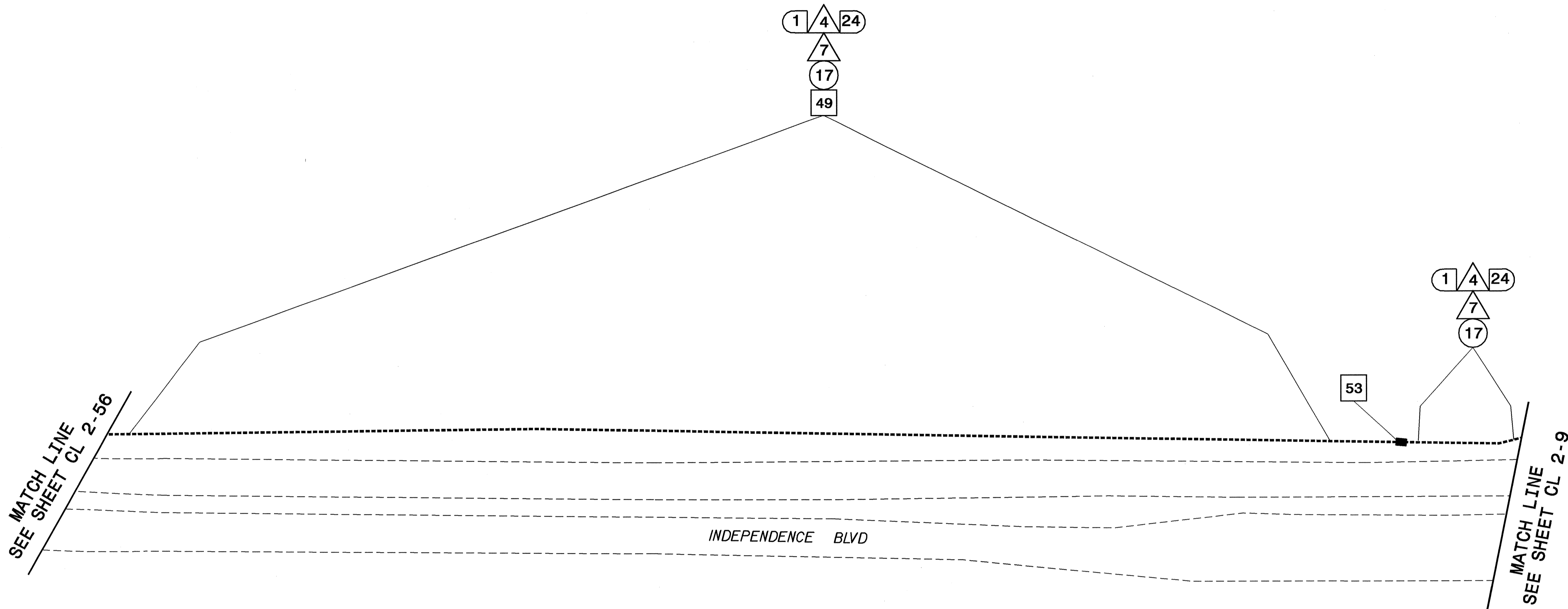
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Signature: Lisa M. Moon 7/23/08

DATE: _____

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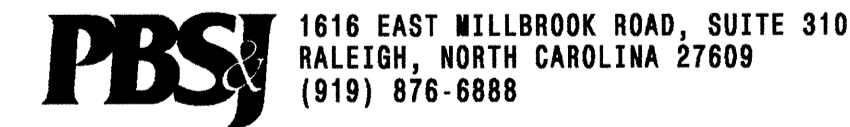
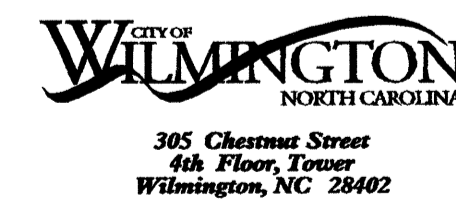
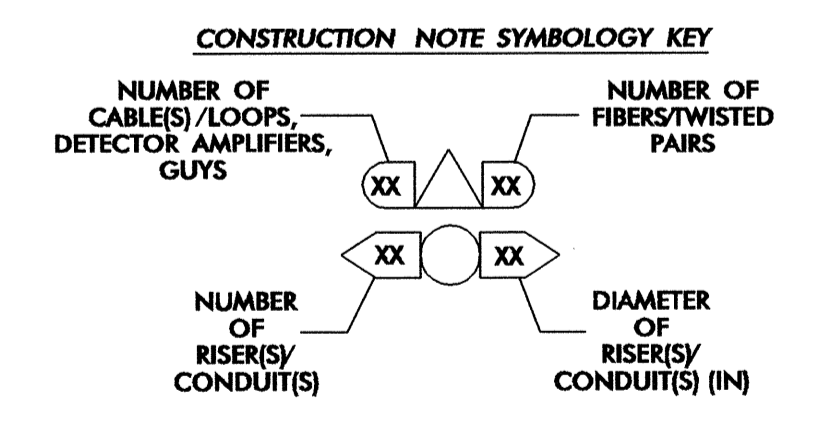


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3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4. INSTALL SMFO CABLE	15. DIRECTIONAL DRILL CONDUIT	26. INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37. INSTALL CCTV CAMERA WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59. INSTALL NEW POLE MOUNTED CCTV CABINET
5. INSTALL COAXIAL CABLE	16. BORE AND JACK CONDUIT	27. INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49. REMOVE EXISTING COMMUNICATIONS CABLE	60. INSTALL OMNI-DIRECTIONAL ANTENNA
6. INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17. INSTALL CABLE(S) IN EXISTING CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPlice CABLE IN CABINET	39. INSTALL SPECIAL-SIZED JUNCTION BOX	50. INSTALL TELEPHONE SERVICE	61. INSTALL 900MHZ RADIO
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8. INSTALL CONDUIT UNDERGROUND	19. INSTALL CABLE(S) IN EXISTING RISER(S)	30. INSTALL AERIAL SPlice ENCLOSURE	41. REMOVE EXISTING JUNCTION BOX	52. INSTALL SERVICE POLE	63. MAINTAIN EXISTING COMMUNICATION CABLE(S)
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

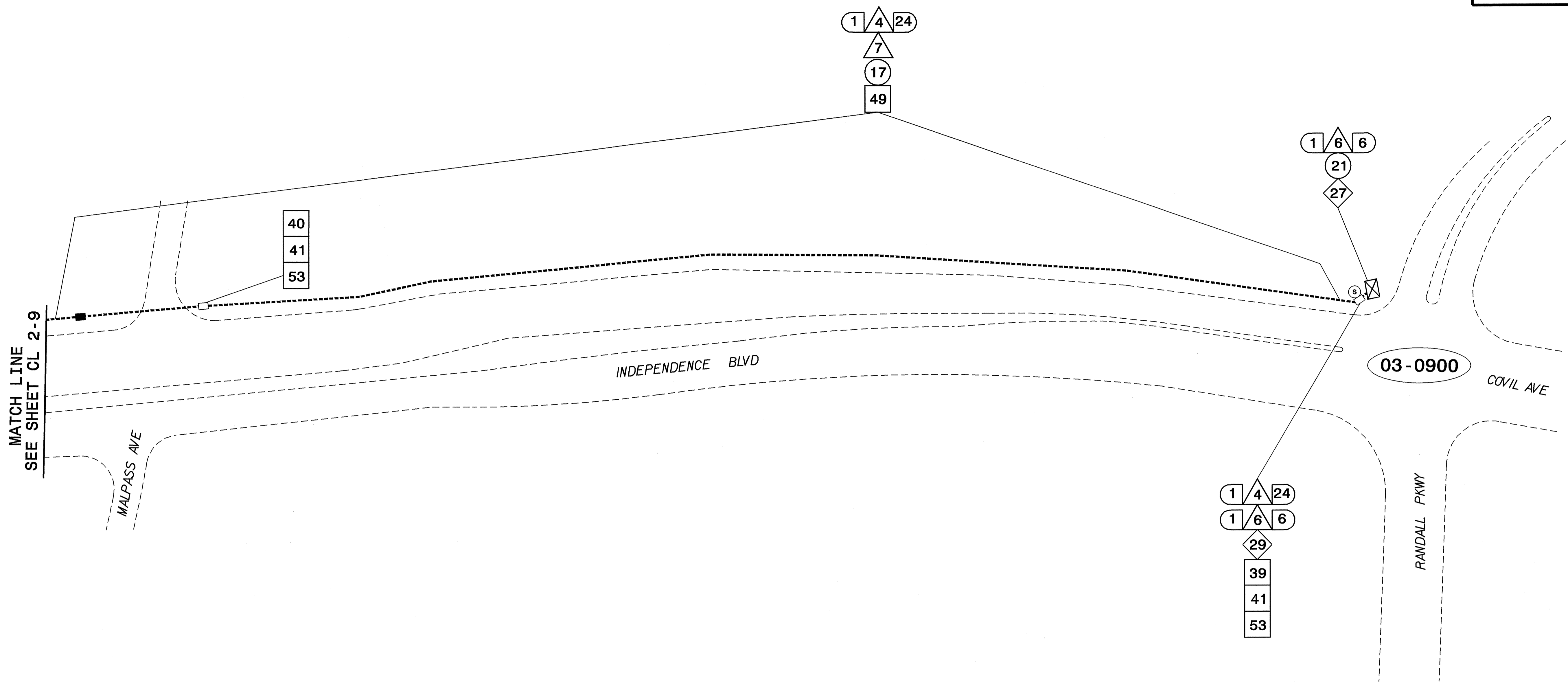
PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

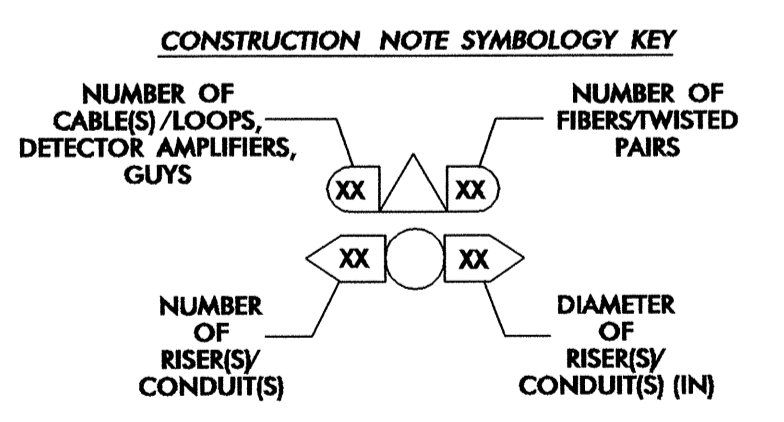
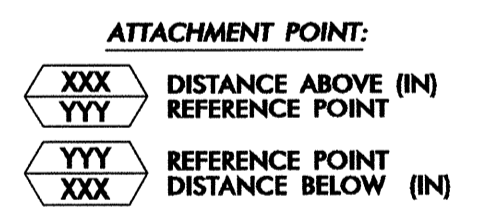
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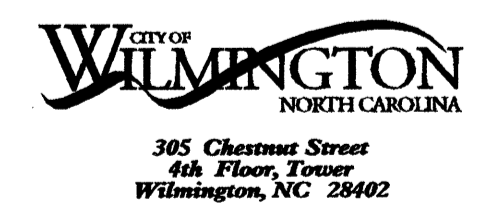


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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

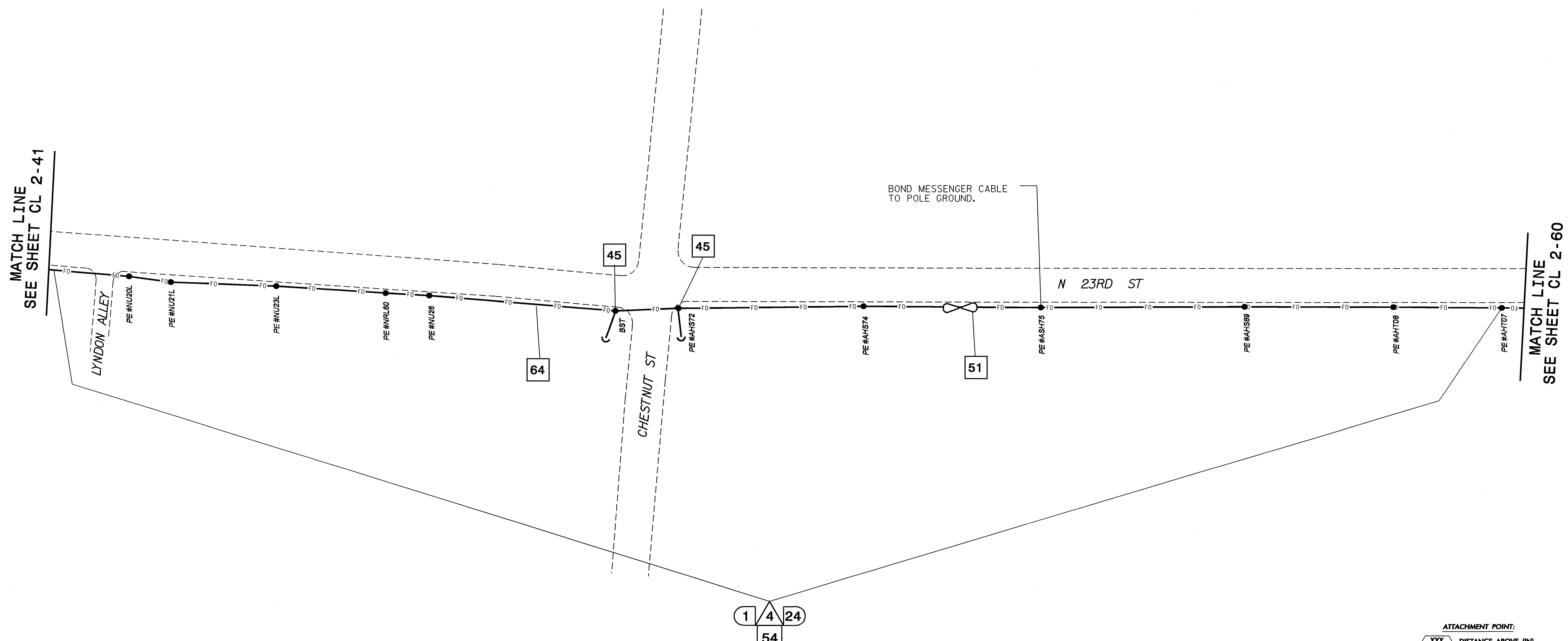
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

Signature: Lisa M. Moon 7-23-08

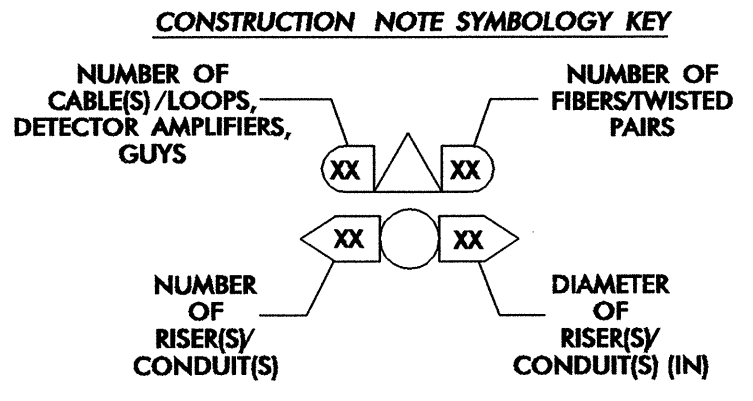
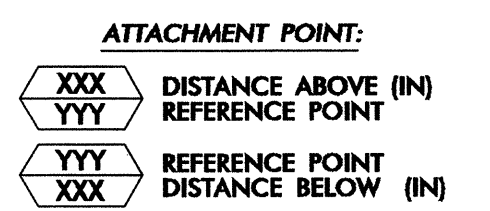
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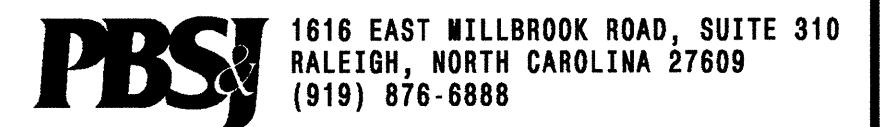
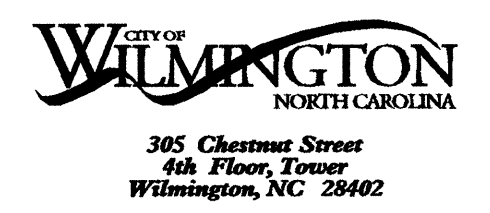


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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

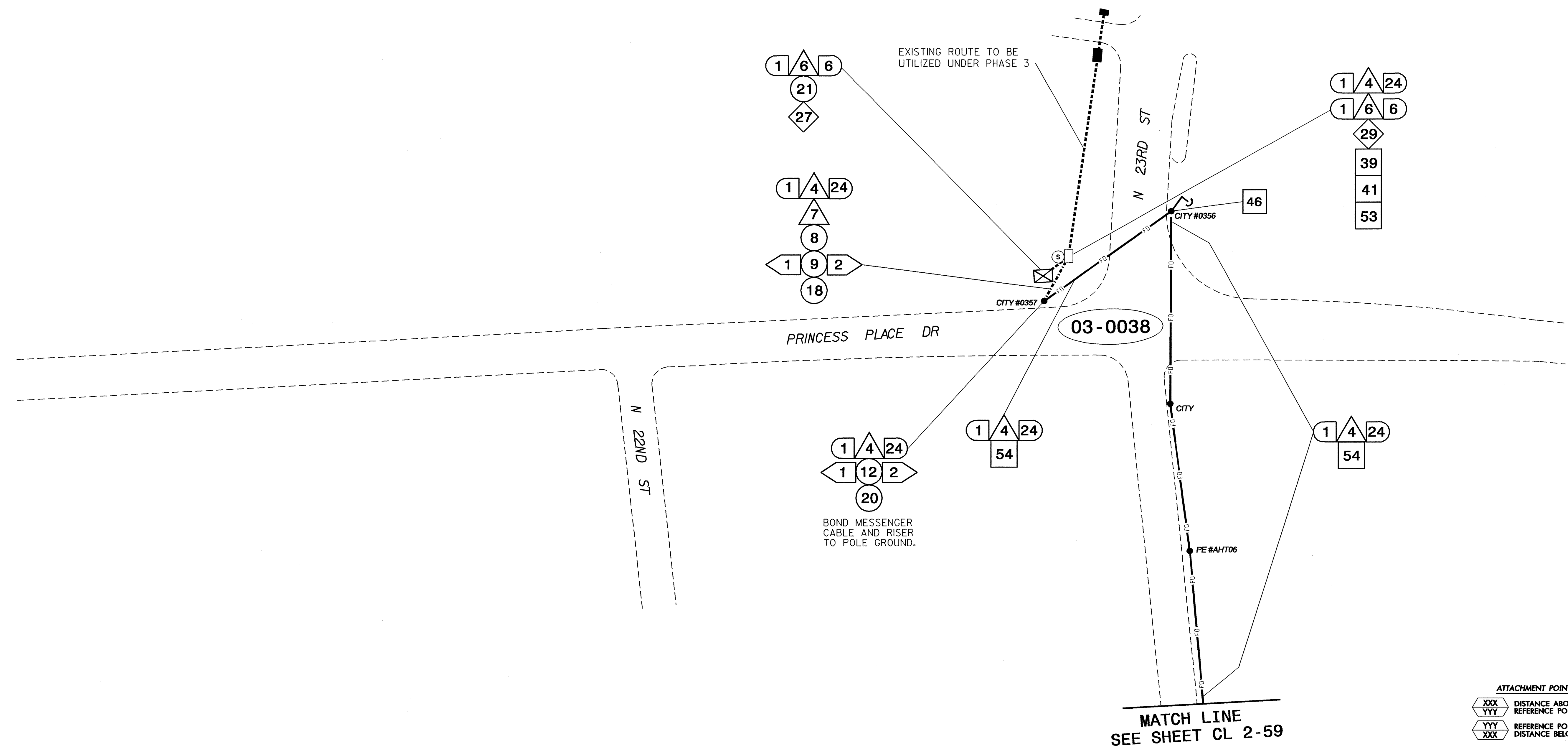
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REVISIONS: INIT. DATE

Signature: Lisa M. Moon, Date: 7-23-08

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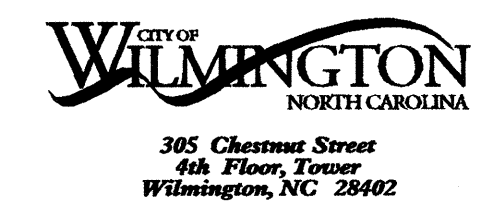
ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 ZZZ DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY
 NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS: XX
 NUMBER OF FIBER/TWISTED PAIRS: XX
 NUMBER OF RISER(S)/CONDUIT(S): XX
 DIAMETER OF RISER(S)/CONDUIT(S) (IN): XX

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PBS 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888

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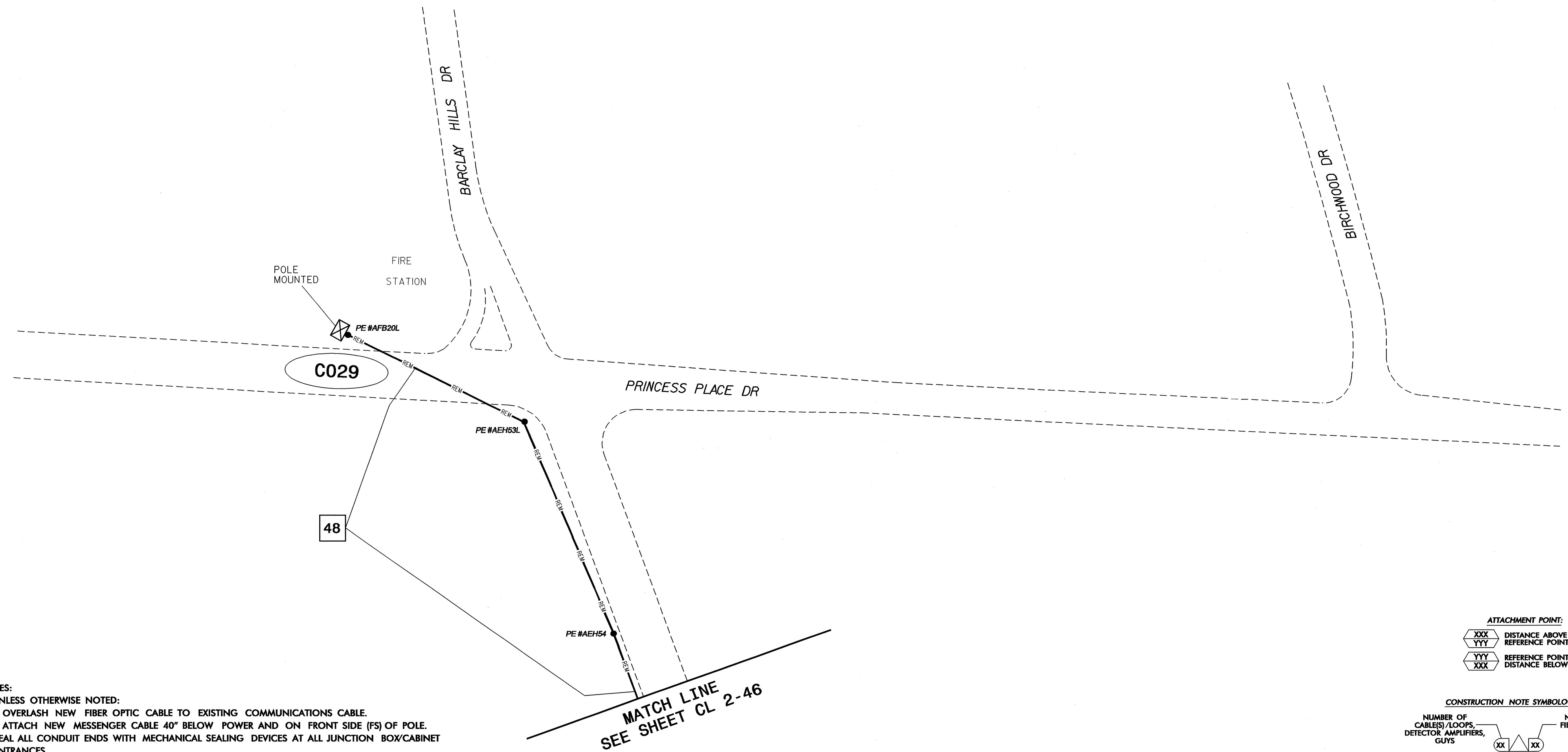
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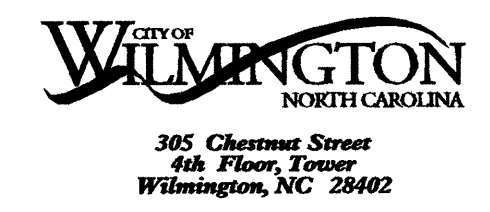
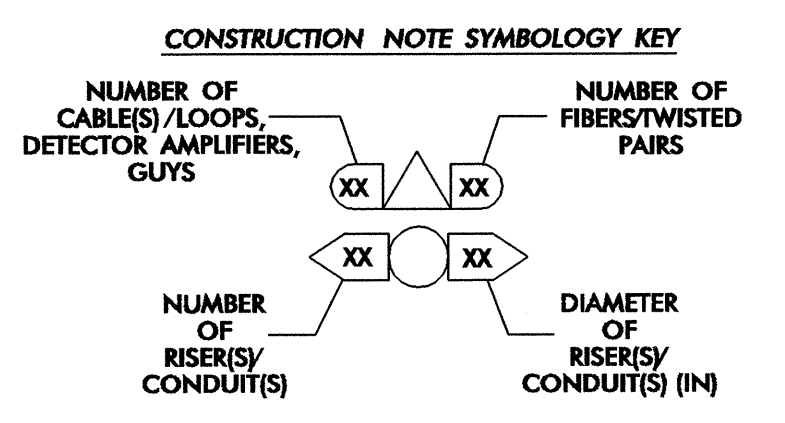
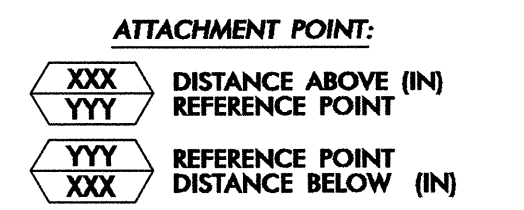
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10. INSTALL RIGID, GALVANIZED STEEL CONDUIT	21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	32. NOT USED	43. REMOVE EXISTING WOOD POLE	54. LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	
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PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888

Prepared for the Offices of:

**Wilmington Signal System
Cable Layout Plans
Phase 2**

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE _____

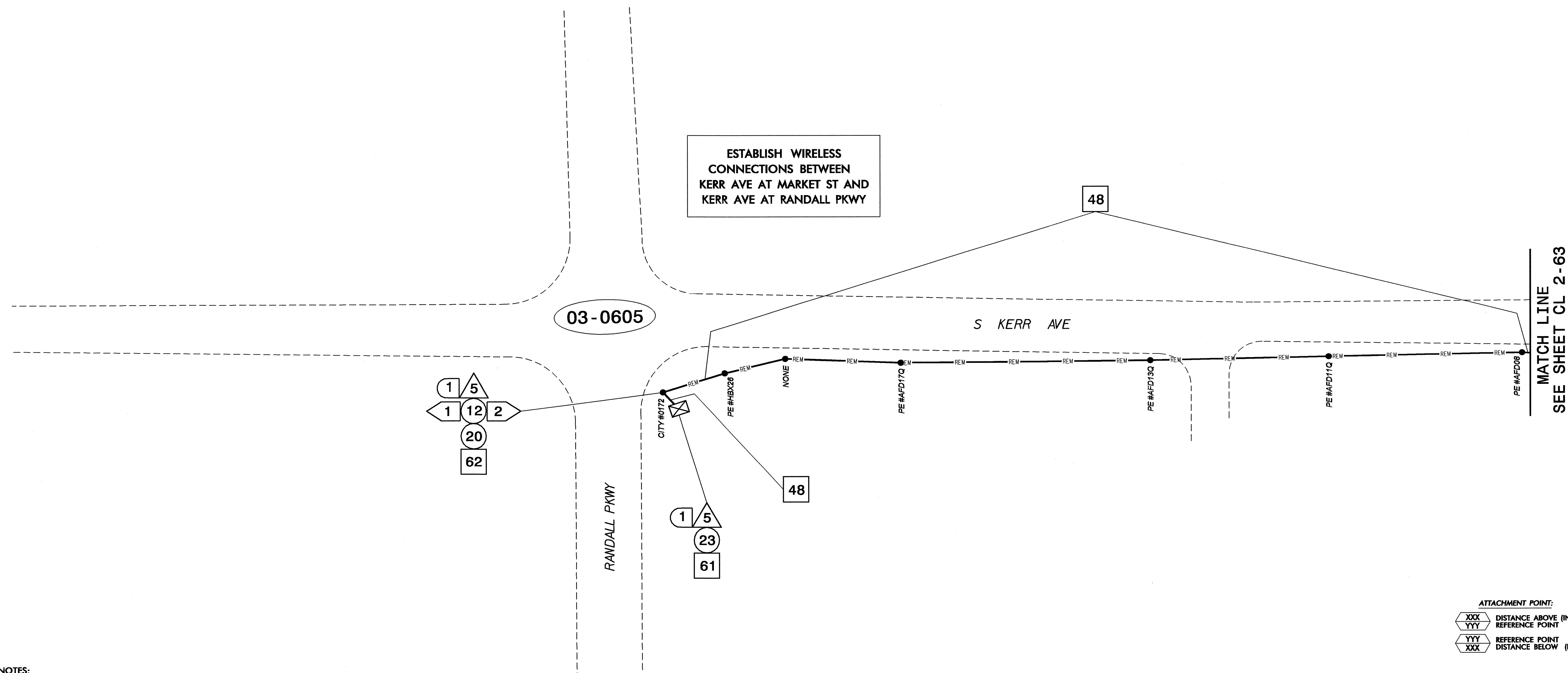
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1" = 50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 022516
LISA M. MOON
DATE: 7/23/08
SIGNATURE: Lisa M. Moon

ADD File name: CL 2-061.DGN

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ESTABLISH WIRELESS CONNECTIONS BETWEEN KERR AVE AT MARKET ST AND KERR AVE AT RANDALL PKWY

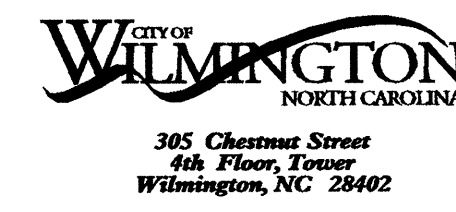
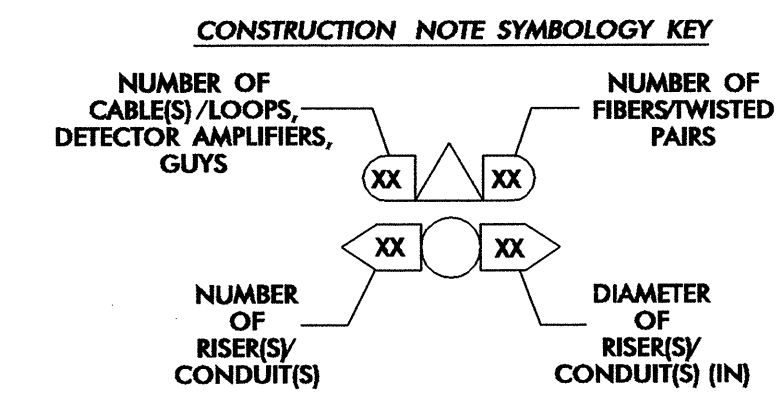


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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

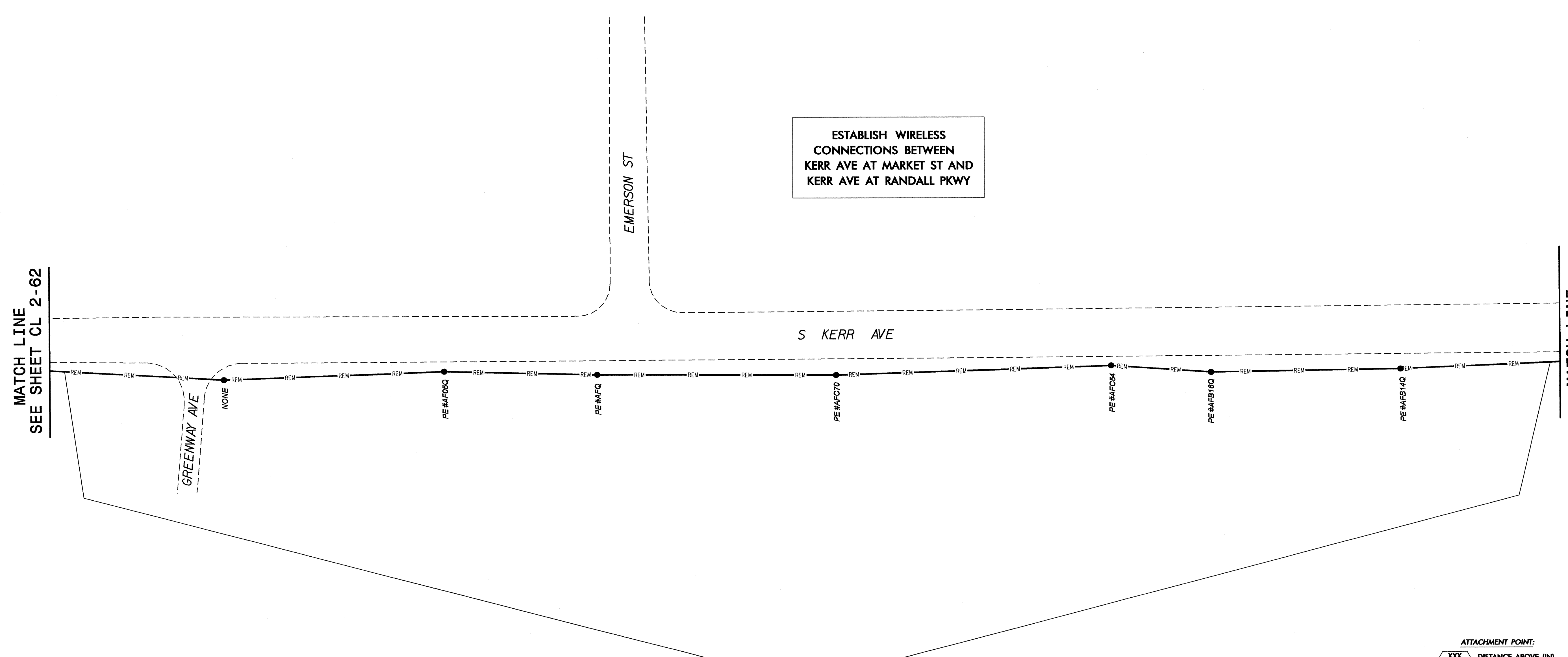
REVISIONS	INIT.	DATE

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 DATE: 7/23/08
 SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON 022516

Scale: 1" = 50'

ADD File name: CL 2-062.DGN

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MATCH LINE
SEE SHEET CL 2-62

MATCH LINE
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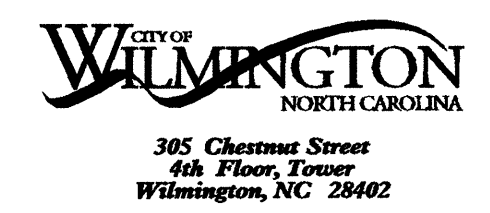
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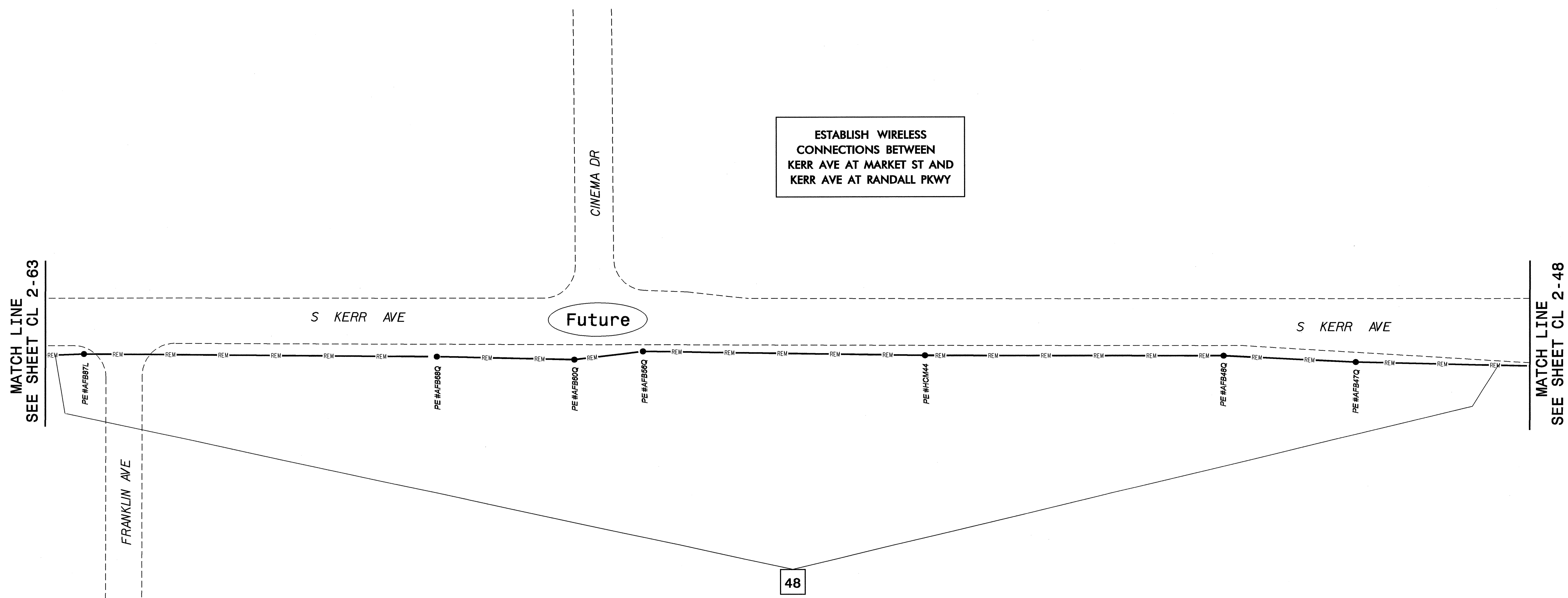


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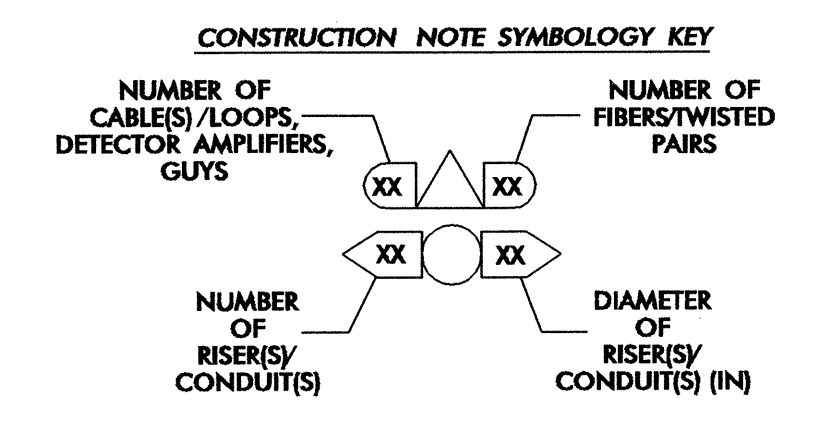
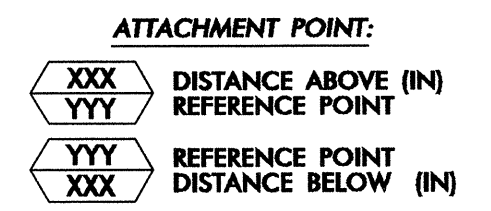
Wilmington Signal System Cable Layout Plans Phase 2
 Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney
 REVISIONS: _____ INIT. DATE: _____

 Signature: *Lisa M. Moon* 7-13-08
 DATE: 7-13-08
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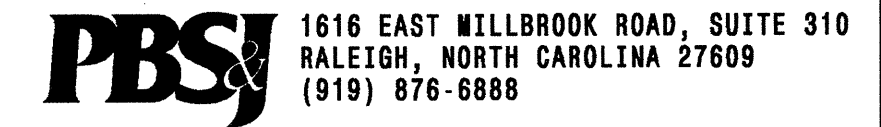
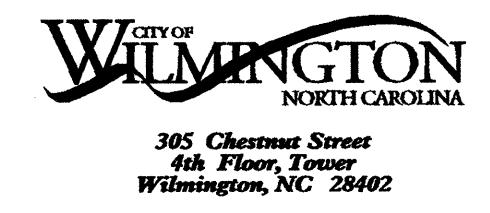


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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

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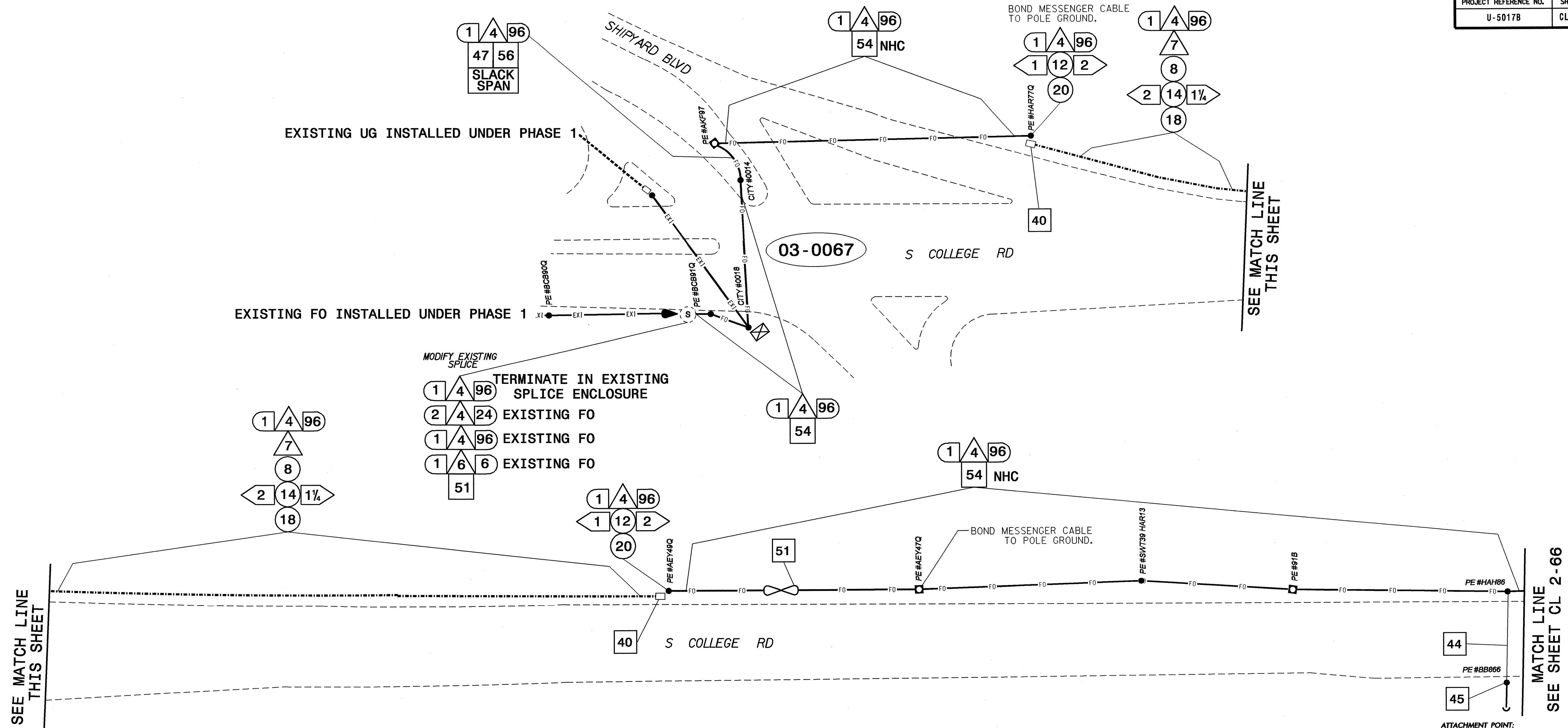
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SEAL
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022516
LISA M. MOON
7-23-08
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CAD FILENAME: CL 2-064.DGN

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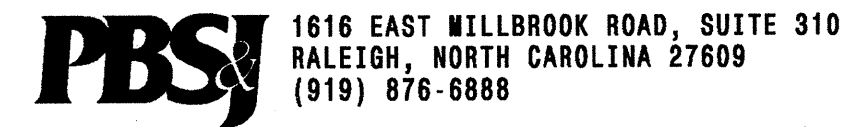
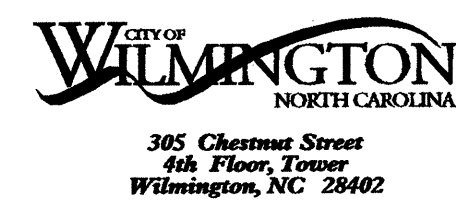
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 TERMINATE IN EXISTING SPLICE ENCLOSURE
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 2 4 24 EXISTING FO
 1 4 96 EXISTING FO
 1 6 6 EXISTING FO
 51

ATTACHMENT POINT:
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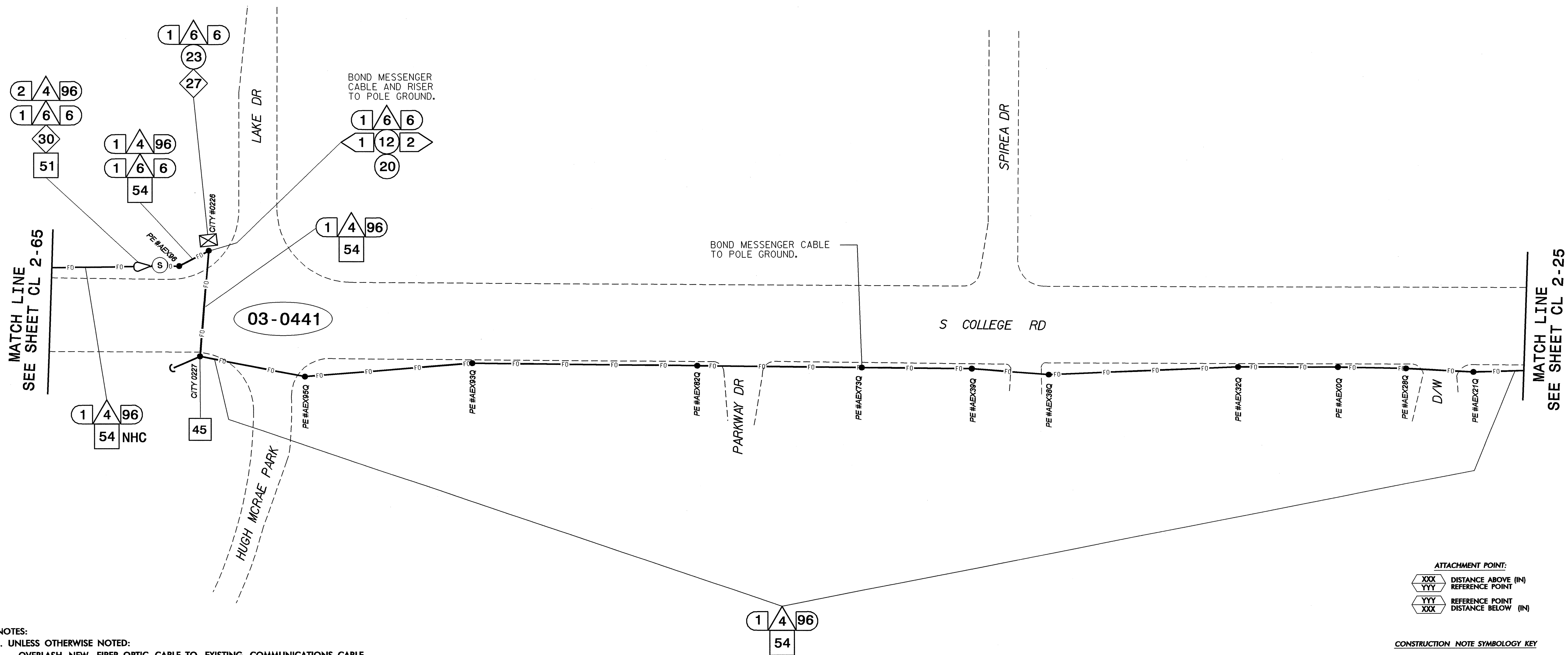
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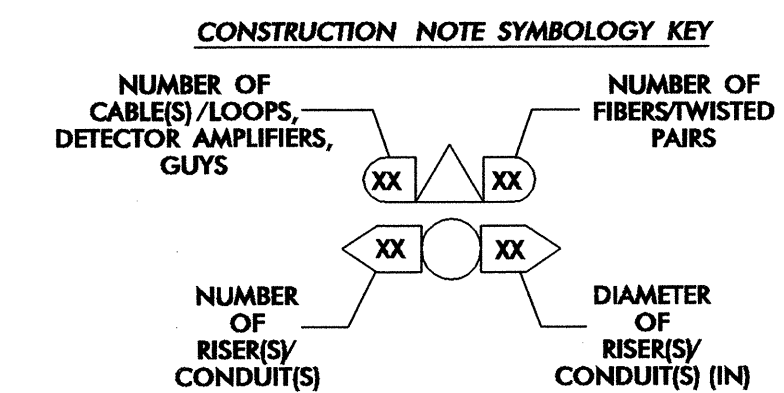
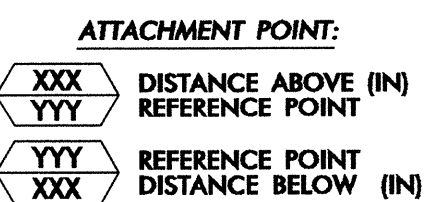
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 LISA M. MOON
 SIGNATURE DATE 7-23-08
 CAD FILE NAME: CL 2-065.DGN



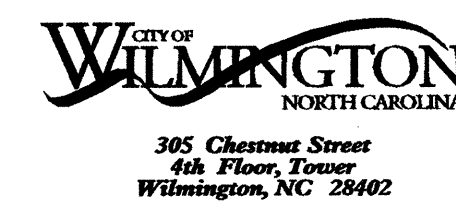
NOTES:

- UNLESS OTHERWISE NOTED:
 - OVERLASH NEW FIBER OPTIC CABLE TO EXISTING COMMUNICATIONS CABLE.
 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENDS WITH MECHANICAL SEALING DEVICES AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING RETROFIT KIT	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34. REMOVE EXISTING WIRELESS SYSTEM	45. INSTALL DOWN GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE
2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13. INSTALL HEAT SHRINK TUBING	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35. REMOVE EXISTING CCTV CAMERA ASSEMBLY	46. INSTALL SIDEWALK GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4. INSTALL SMFO CABLE	15. DIRECTIONAL DRILL CONDUIT	26. INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37. INSTALL CCTV CAMERA WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59. INSTALL NEW POLE MOUNTED CCTV CABINET
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PBS 1616 EAST WILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

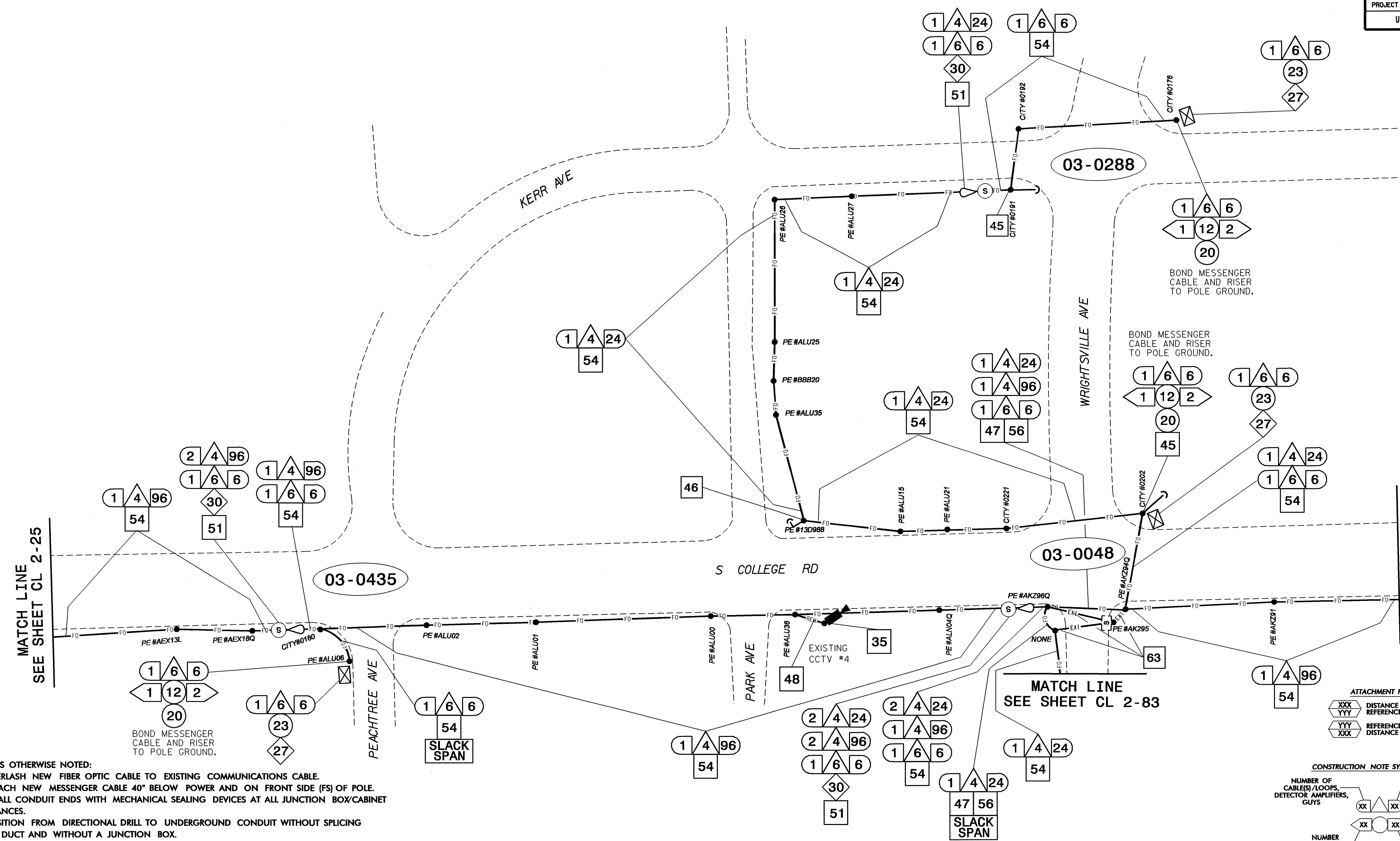
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

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1"=50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
022516
LISA M. MOON
7-23-08
SIGNATURE DATE
CADD F116name:CL 2-066.DGN



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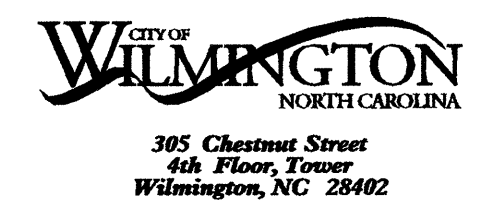
CONSTRUCTION NOTE SYMBOLOLOGY KEY

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



PBS 1616 EAST HILLBROOK ROAD, SUITE 310
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 (919) 876-6888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/WR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____

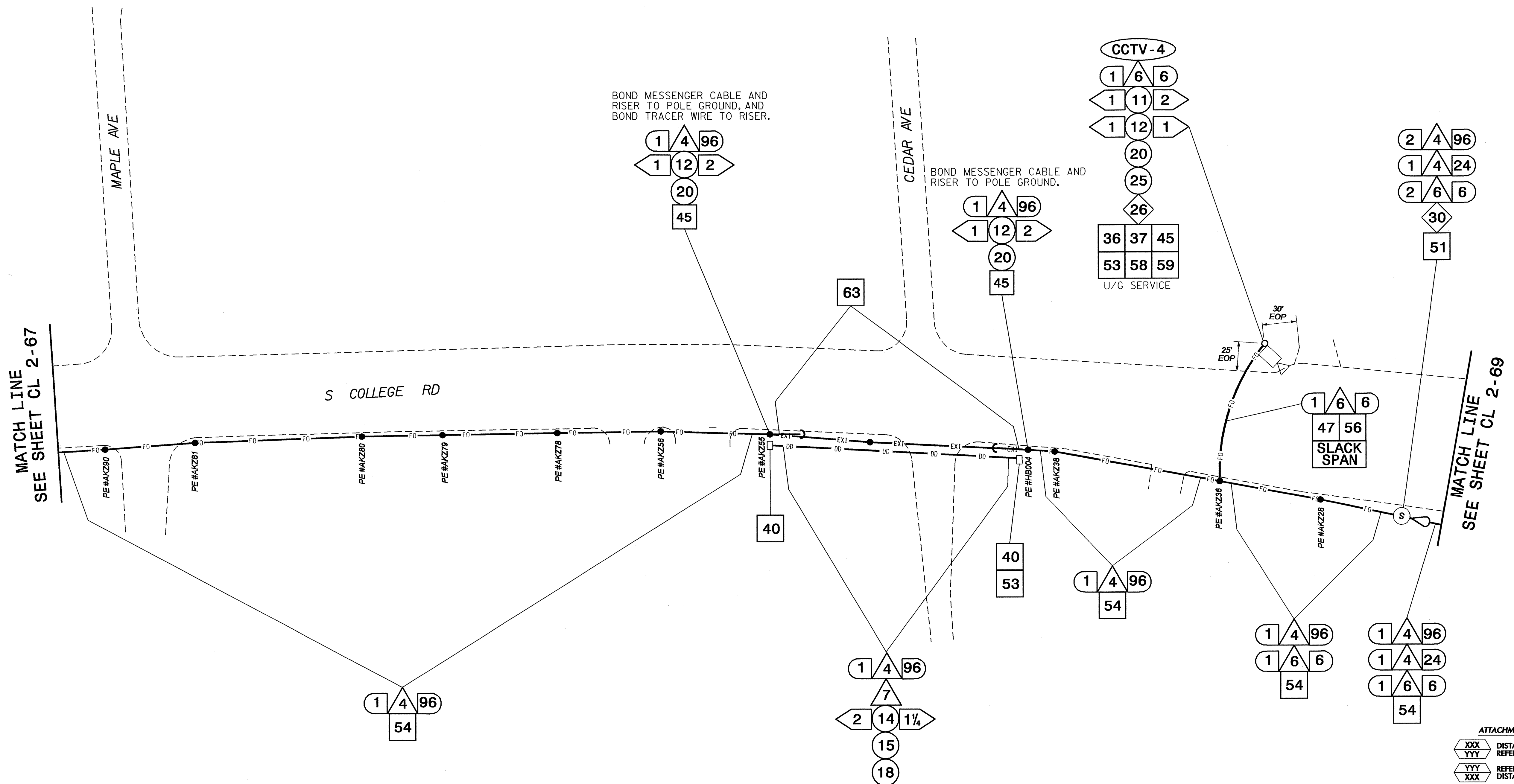
INIT. DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON 022516

SIGNATURE: Lisa M. Moon DATE: 7-23-08

CADD File Name: CL 2-067.DGN

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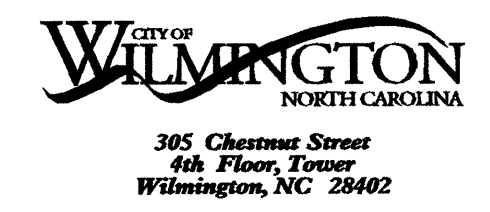
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-8888

Prepared for the Offices of:
 City of Wilmington
 Department of Transportation
 Signal System

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

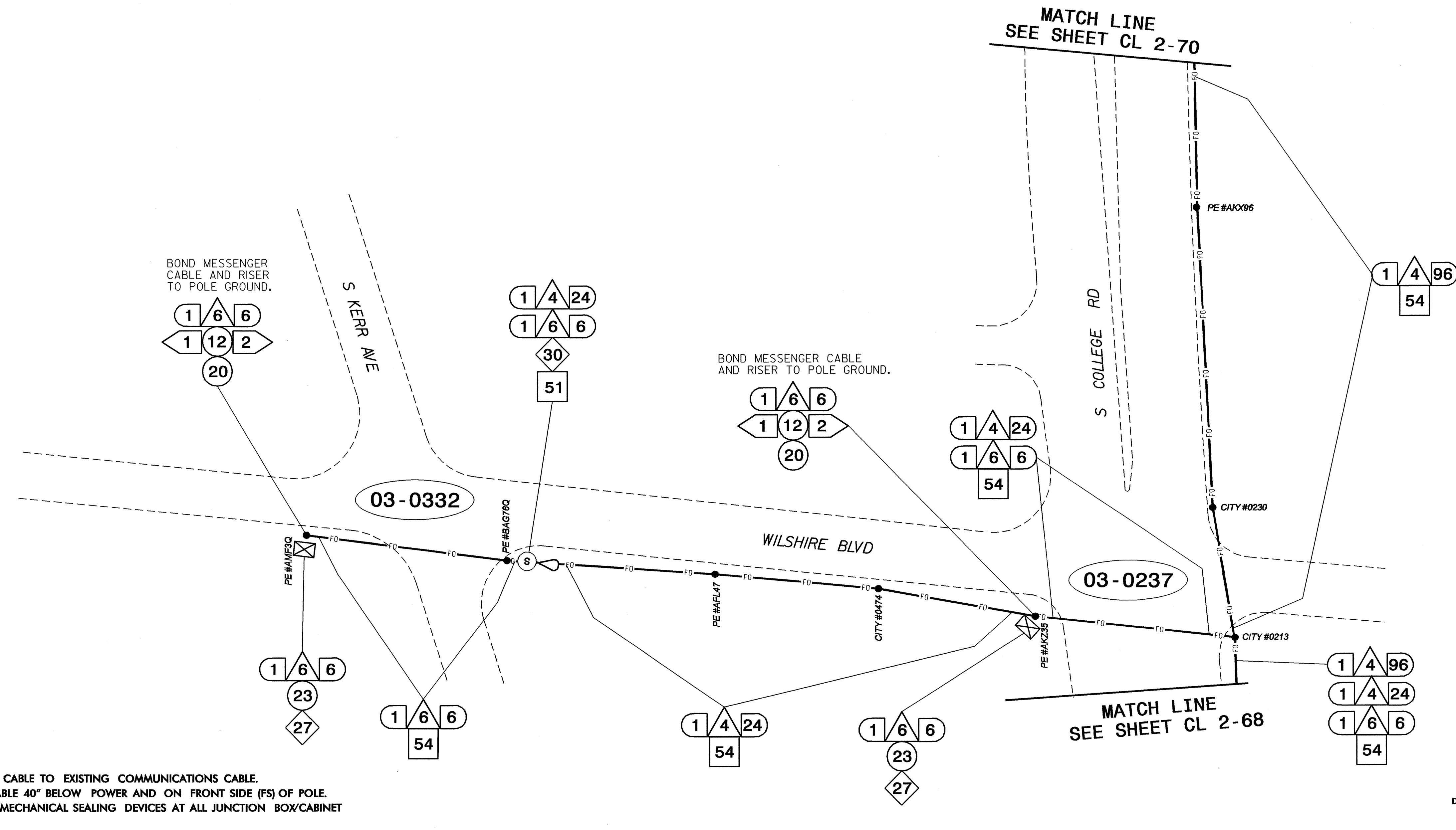
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 USA M. MOON
 7/23/08
 DATE

REVISIONS: INIT. DATE

Scale: 1" = 50'

CADD File Name: CL 2-068.DGN

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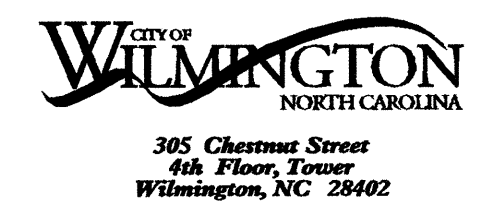
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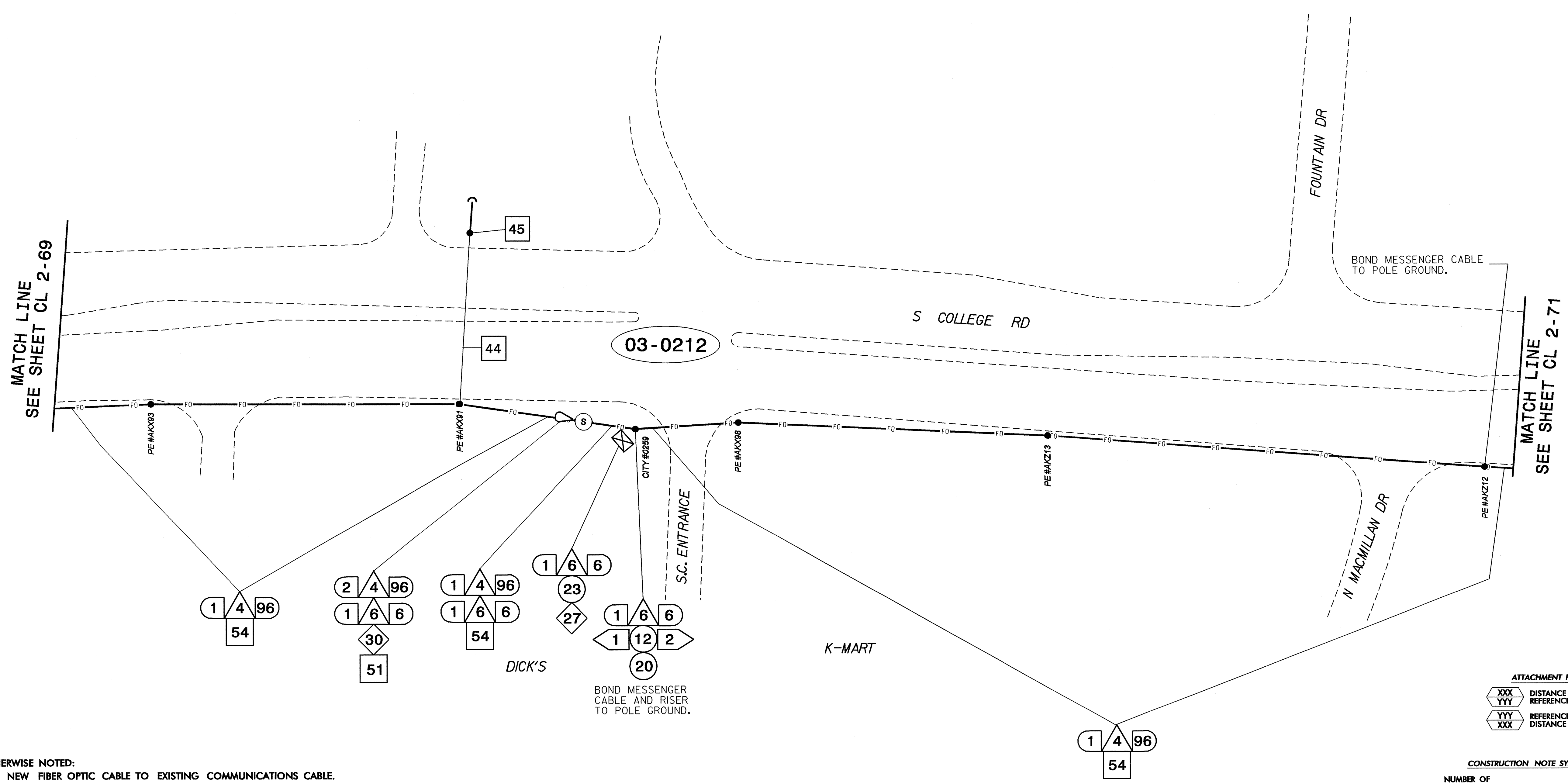
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INIT. DATE

Signature: *Lisa M. Moon* 7-23-08
 DATE: 7-23-08
 SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON 022516

CADD FILE NAME: CL 2-069.DGN

22-JUL-2008 13:32 G:\REG\Curr\280337-01 - Wf Wilmington Sig Sys\CR\PHASE 2\CL2-069.dgn 13833



BOND MESSENGER CABLE TO POLE GROUND.

03-0212

BOND MESSENGER CABLE AND RISER TO POLE GROUND.

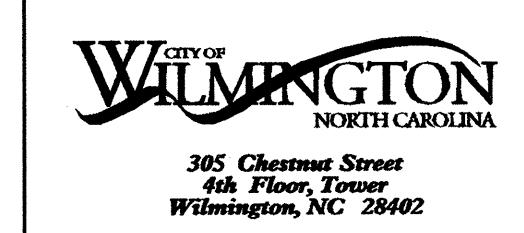
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

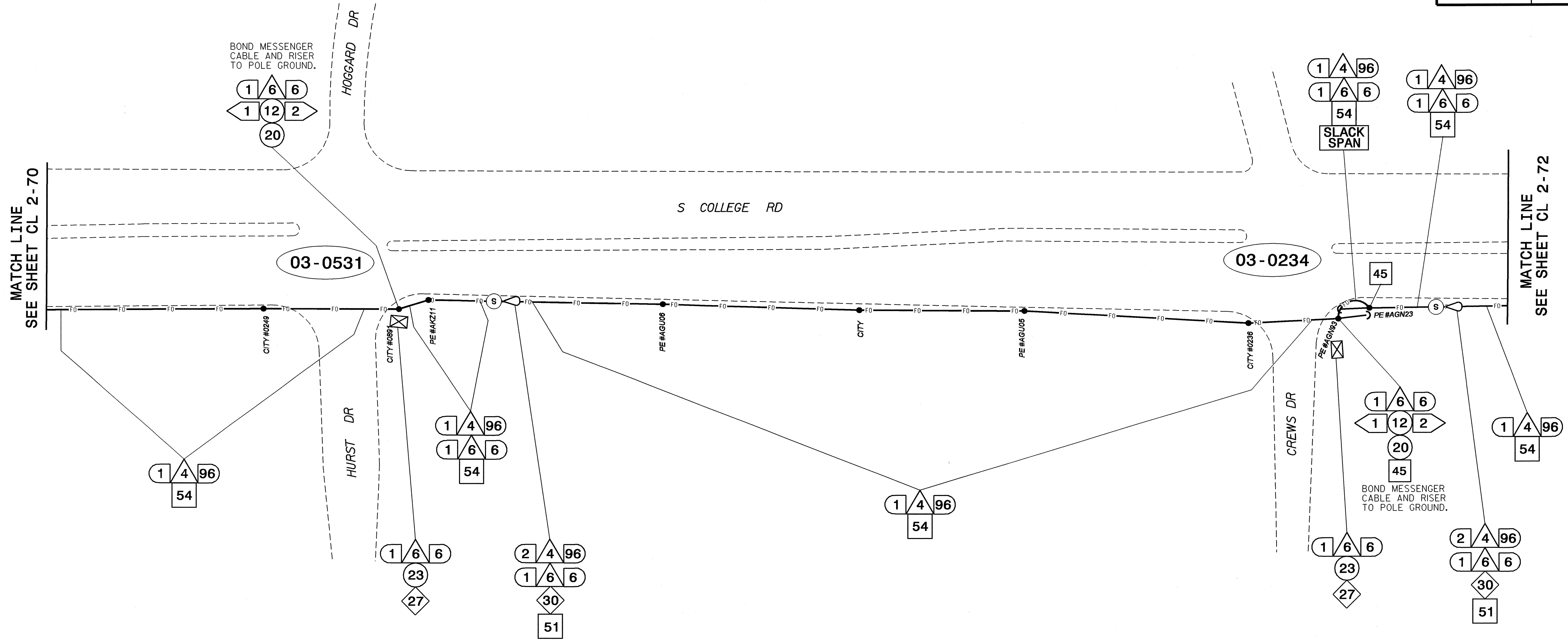
PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Wood/MR Cooney

REVISIONS	INIT.	DATE

Signature: *Jim M. Moon* 7-23-08
 DATE: 7-23-08
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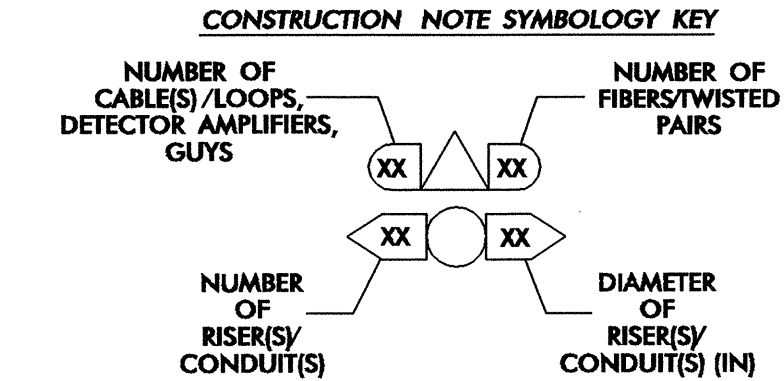
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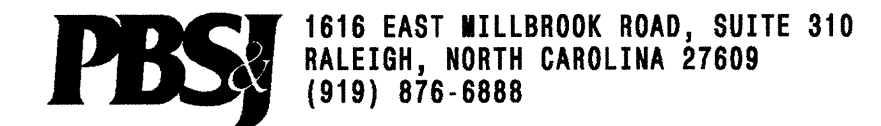
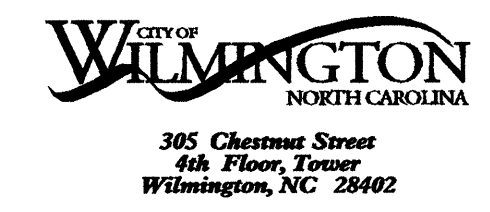
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ATTACHMENT POINT:
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 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



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Prepared for the Offices of:
 Traffic Engineering and Safety Services
 City of Wilmington
 Department of Transportation

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

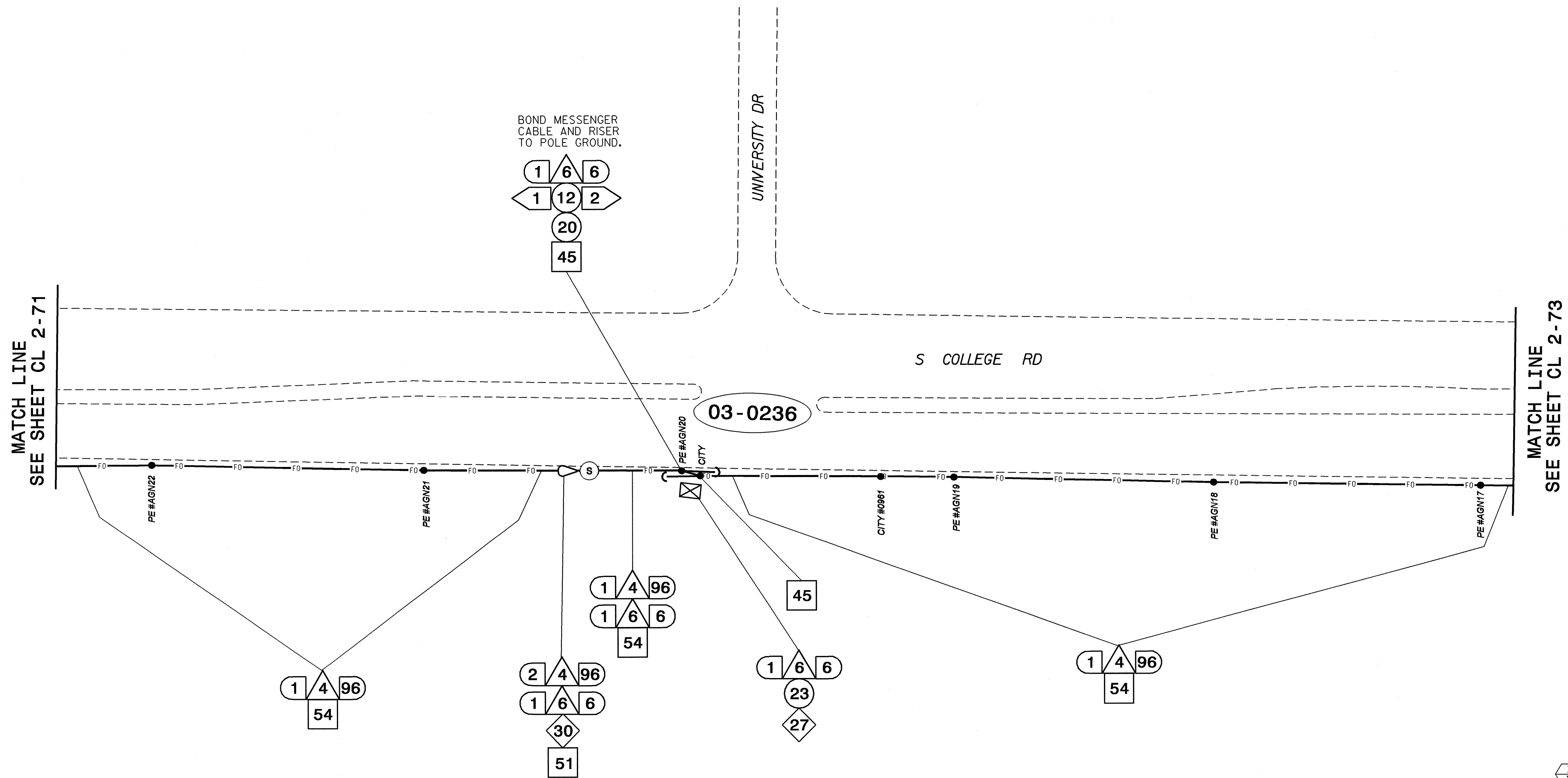
750 Greenfield Parkway, Garner, NC 27529

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 1"=50'

REVISIONS: INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 LISA M. MOON
 SIGNATURE: Lisa M. Moon 7-23-08
 DATE: 7-23-08
 CADD File Name: CL 2-071.DGN

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BOND MESSENGER CABLE AND RISER TO POLE GROUND.

MATCH LINE SEE SHEET CL 2-71

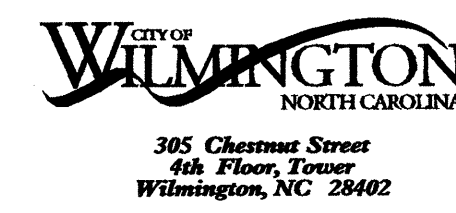
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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY
 NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS
 NUMBER OF RISER(S)/CONDUIT(S)
 NUMBER OF FIBERS/TWISTED PAIRS
 DIAMETER OF RISER(S)/CONDUIT(S) (IN)

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

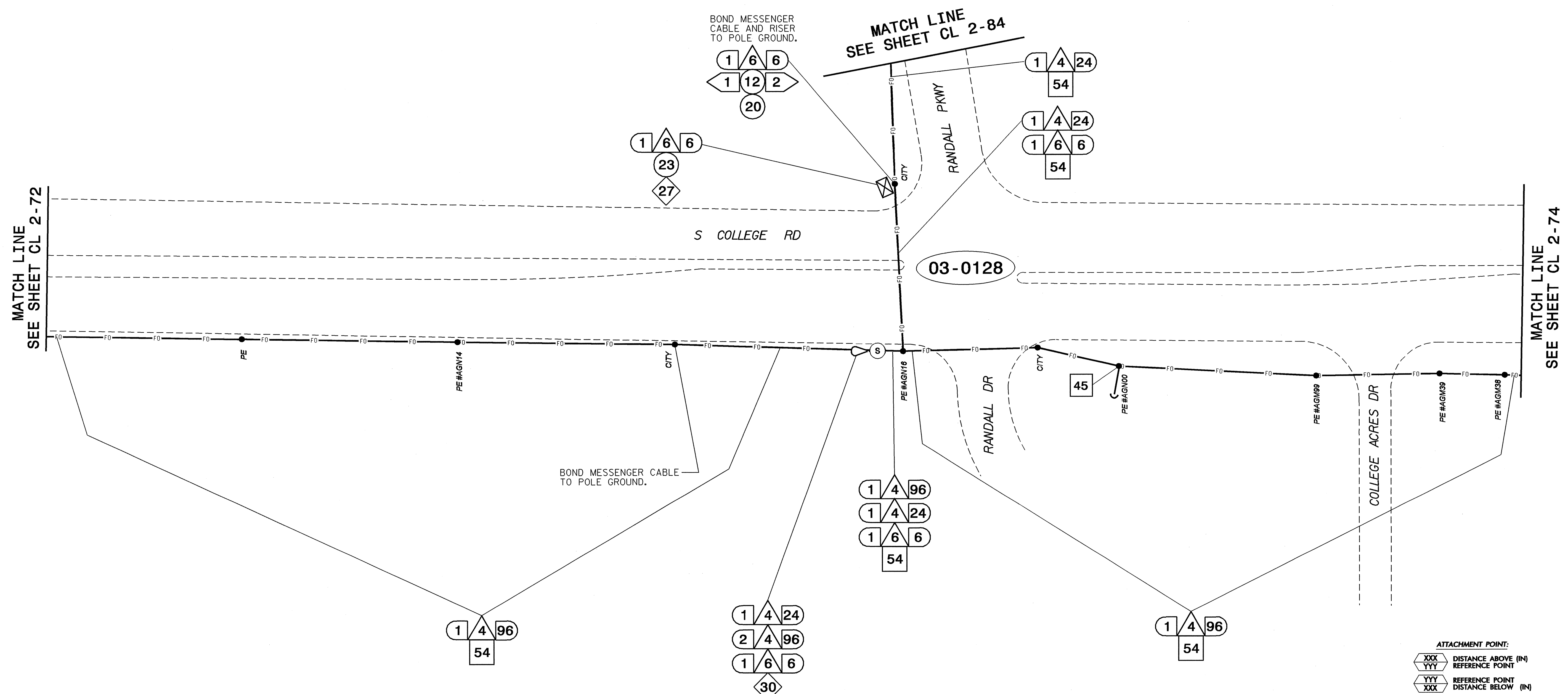
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SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 022516 WISA M. MOON

Signature: Lisa M. Moon 7-23-08 DATE

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CONSTRUCTION NOTE SYMBOLGY KEY

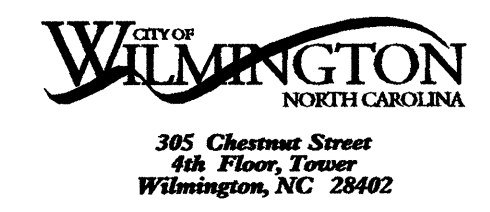
NUMBER OF CABLE(S)/LOOPS, DETECTOR AMPLIFIERS, GUYS: XX

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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Noon/MR Cooney

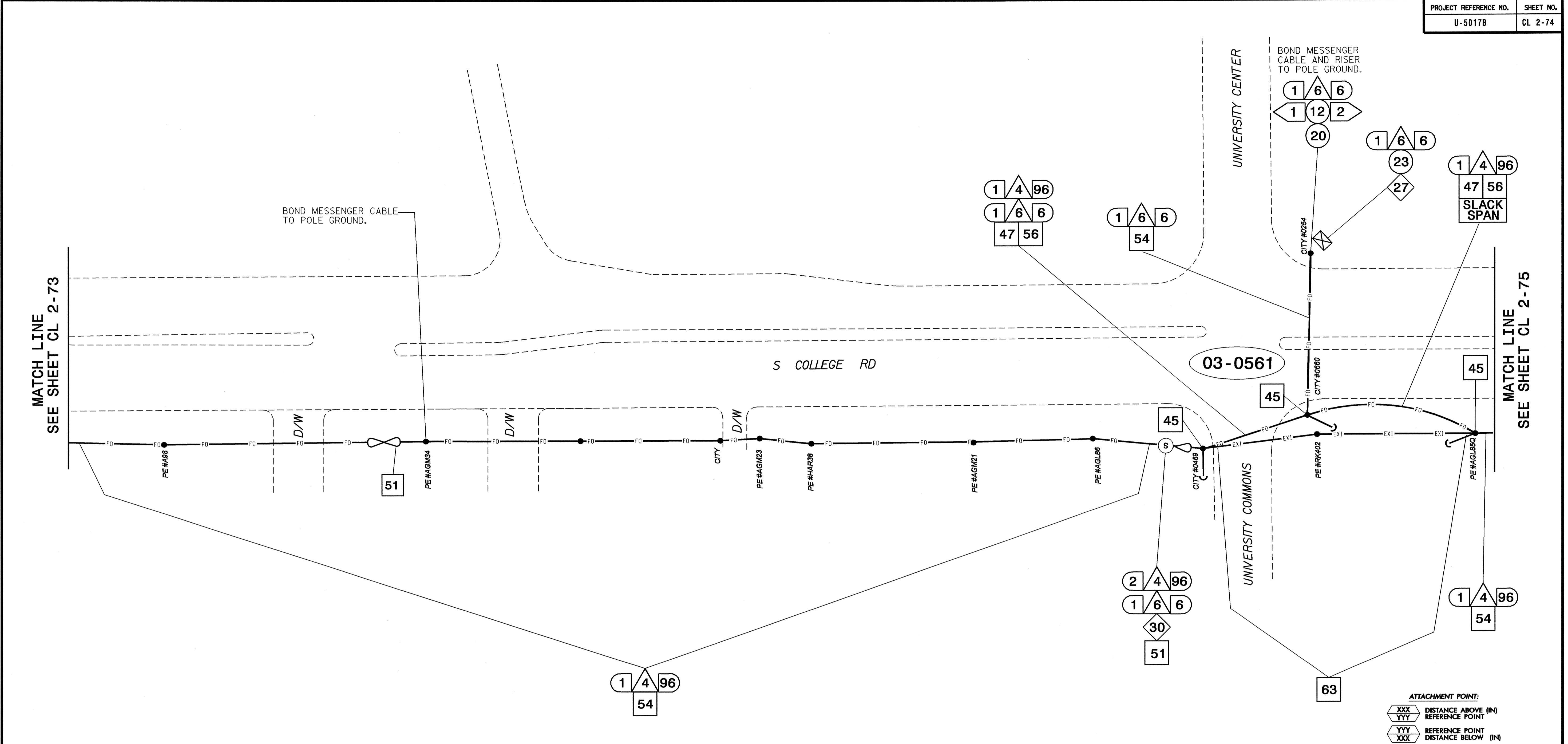
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1" = 50'

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
7-23-08
SIGNATURE DATE
CADD File name: CL 2-073.DGN

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CITY OF WILMINGTON
 NORTH CAROLINA
 305 Chestnut Street
 4th Floor, Tower
 Wilmington, NC 28402

PBS! 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-8888

Prepared for the Offices of:

750 Greenfield Parkway, Garner, NC 27529

Wilmington Signal System Cable Layout Plans Phase 2

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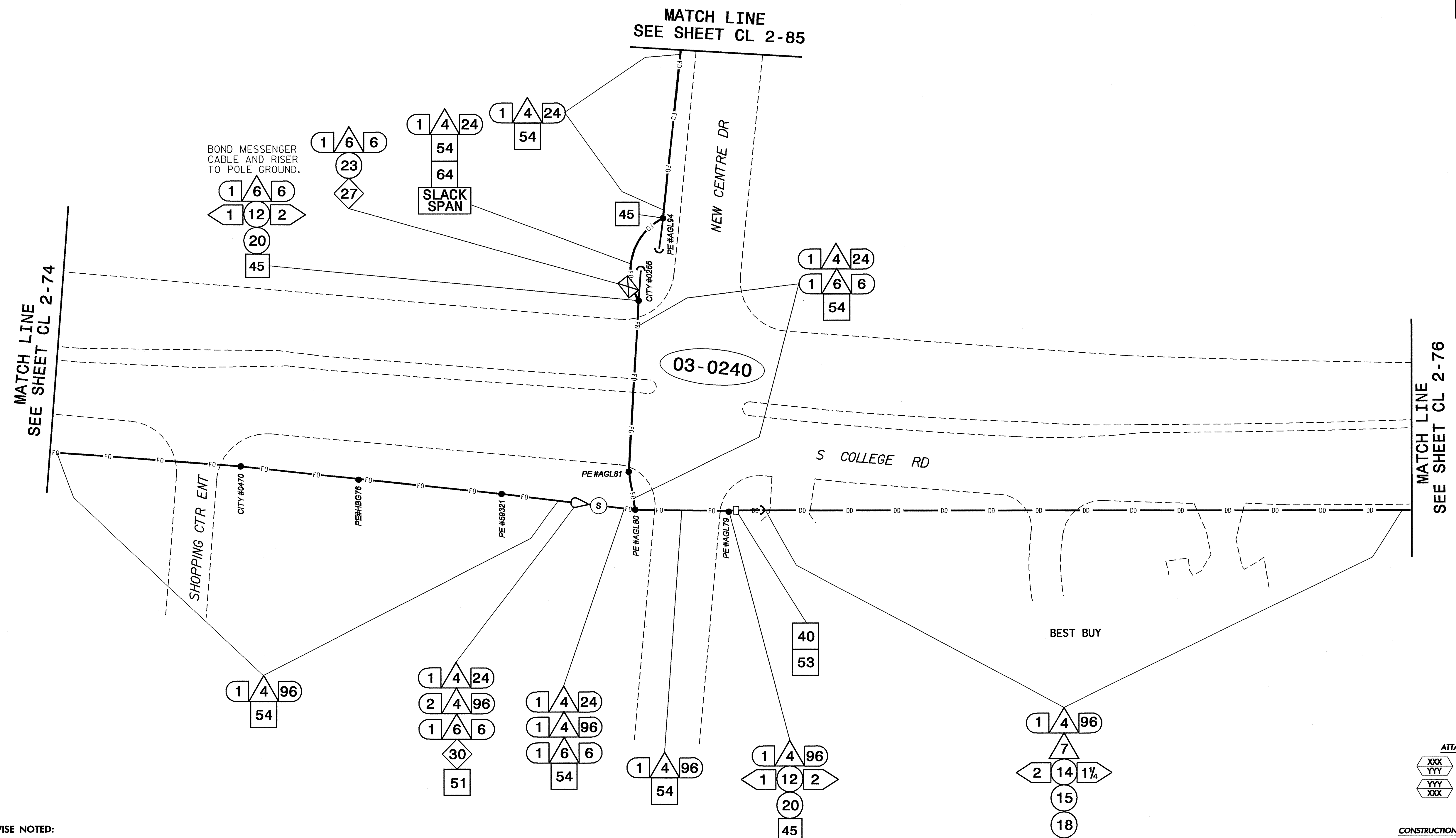
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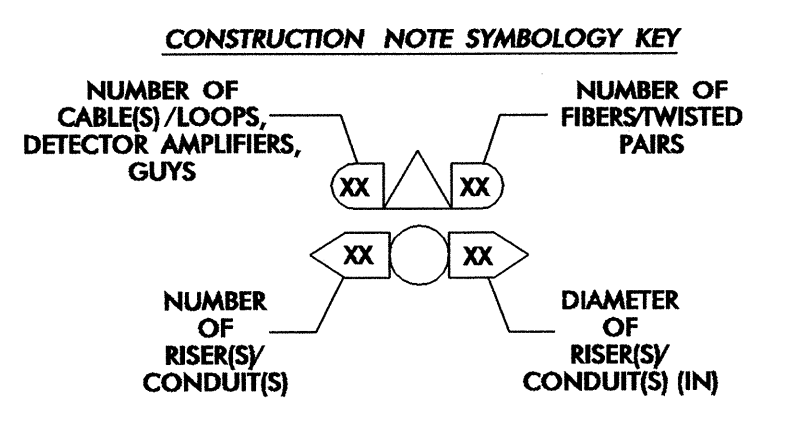
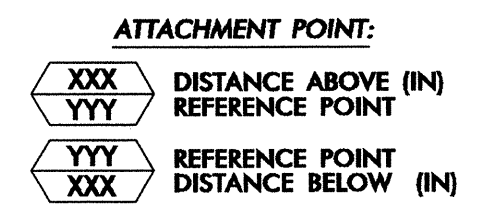
REVISIONS	INIT.	DATE

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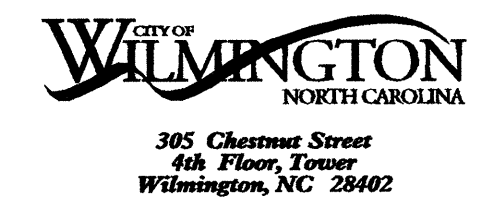
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
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- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.



BOND MESSENGER CABLE AND RISER TO POLE GROUND, AND BOND TRACER WIRE TO RISER.

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING RETROFIT KIT	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34. REMOVE EXISTING WIRELESS SYSTEM	45. INSTALL DOWN GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE
2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13. INSTALL HEAT SHRINK TUBING RETROFIT KIT	24. INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35. REMOVE EXISTING CCTV CAMERA ASSEMBLY	46. INSTALL SIDEWALK GUY ASSEMBLY	57. MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3. INSTALL CATEGORY 5E CABLE	14. INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25. INSTALL NEW RISER INTO POLE MOUNTED CABINET	36. INSTALL CCTV CAMERA ASSEMBLY	47. INSTALL MESSENGER CABLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4. INSTALL SMFO CABLE	15. DIRECTIONAL DRILL CONDUIT	26. INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37. INSTALL CCTV CAMERA WOOD POLE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59. INSTALL NEW POLE MOUNTED CCTV CABINET
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6. INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17. INSTALL CABLE(S) IN EXISTING CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	39. INSTALL SPECIAL-SIZED JUNCTION BOX	50. INSTALL TELEPHONE SERVICE	61. INSTALL 900MHZ RADIO
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

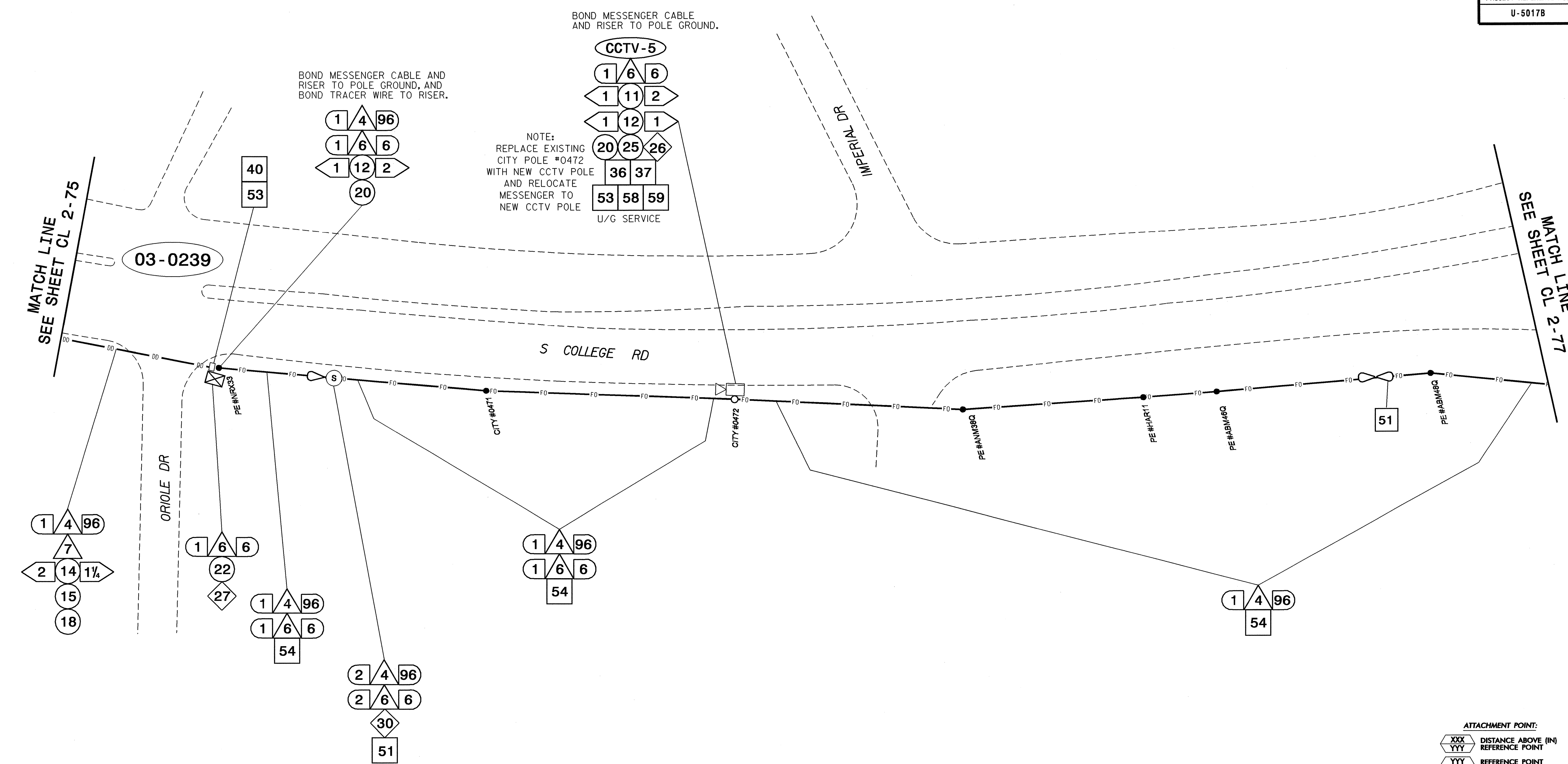
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REVISIONS: _____ INIT. DATE

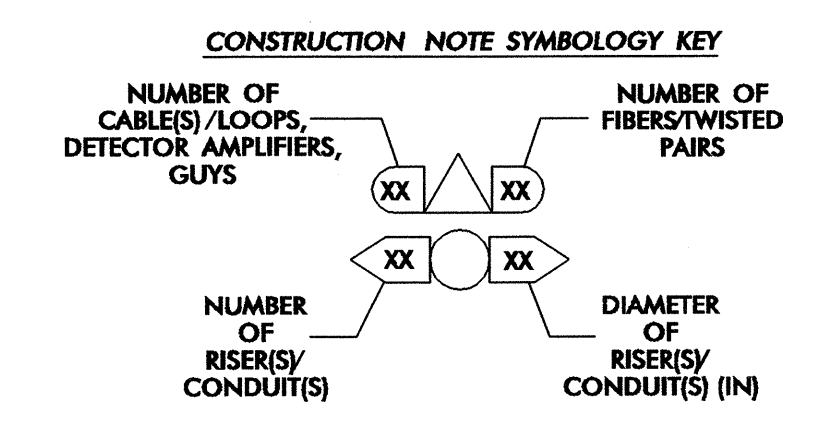
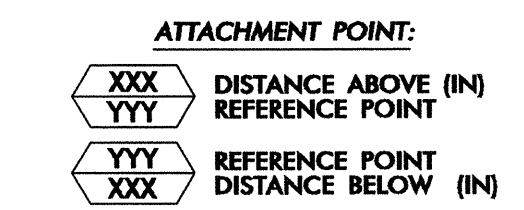
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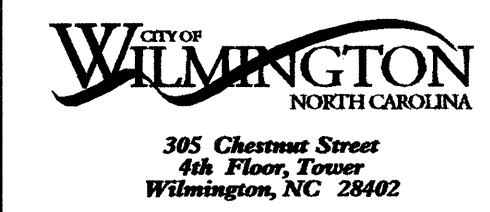
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PBS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888

Prepared for the Offices of:

Wilmington Signal System
Cable Layout Plans
Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/NR Cooney

750 Greenfield Parkway, Garner, NC 27529

REVISIONS

INIT. DATE

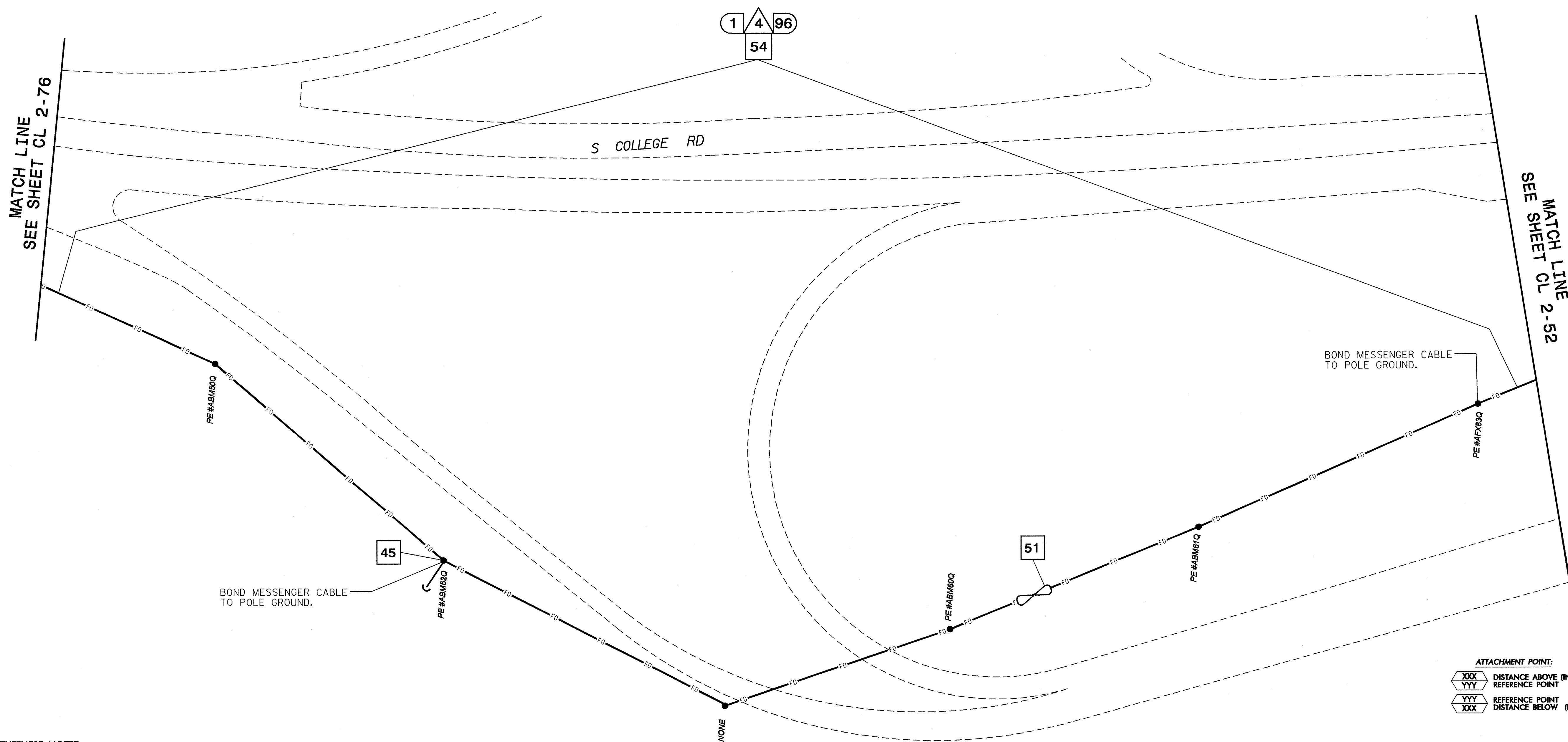
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SEAL

Lisa M. Moon 7-23-08
ENGINEER
DATE

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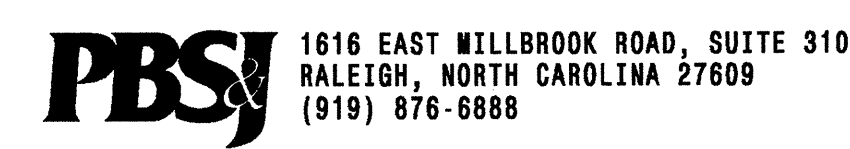
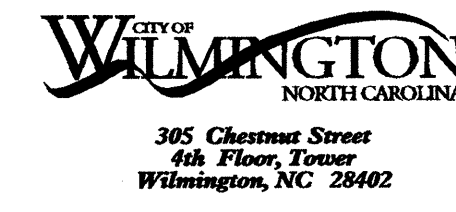
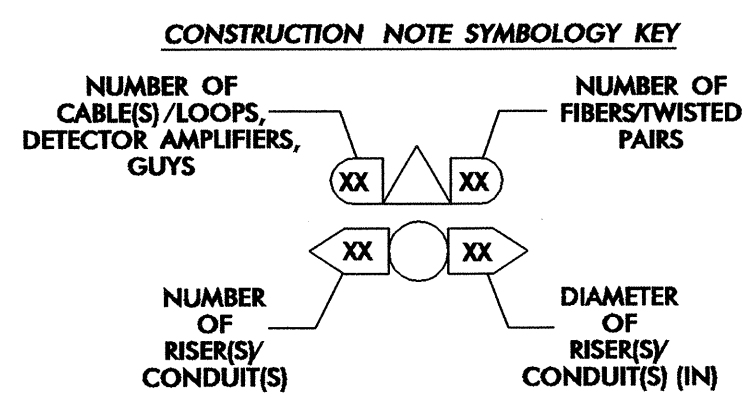
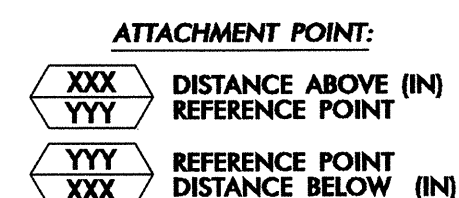
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27520

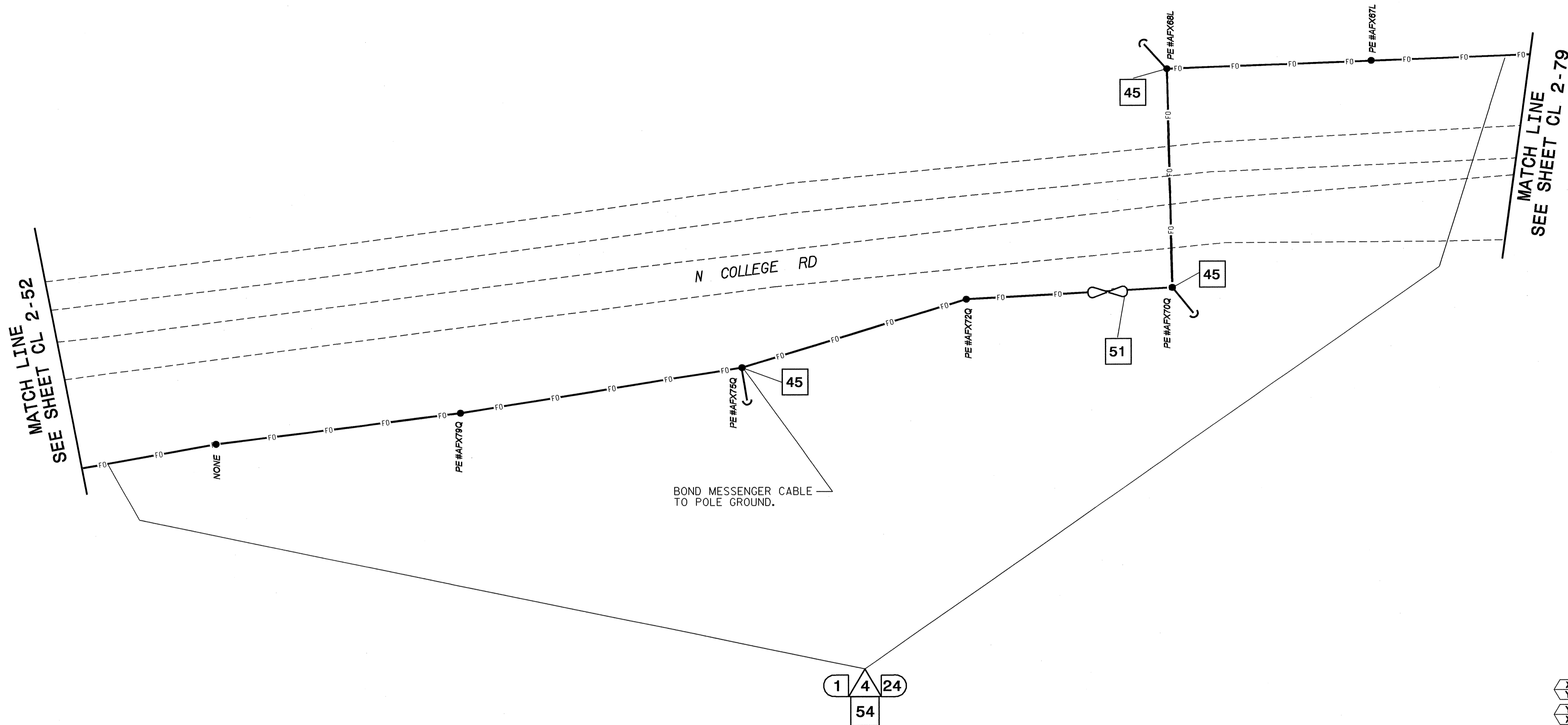
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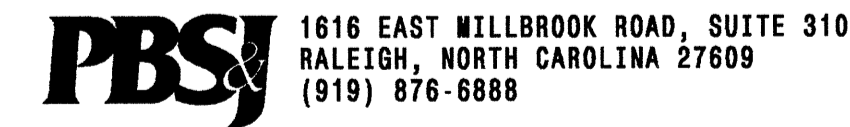
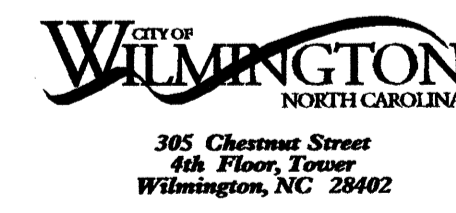
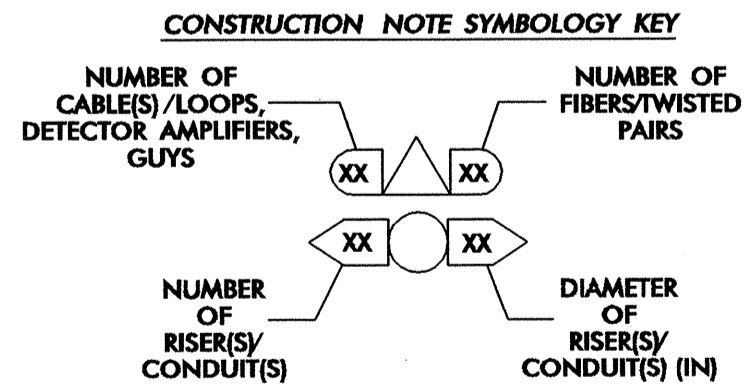
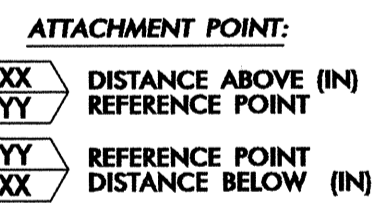
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Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

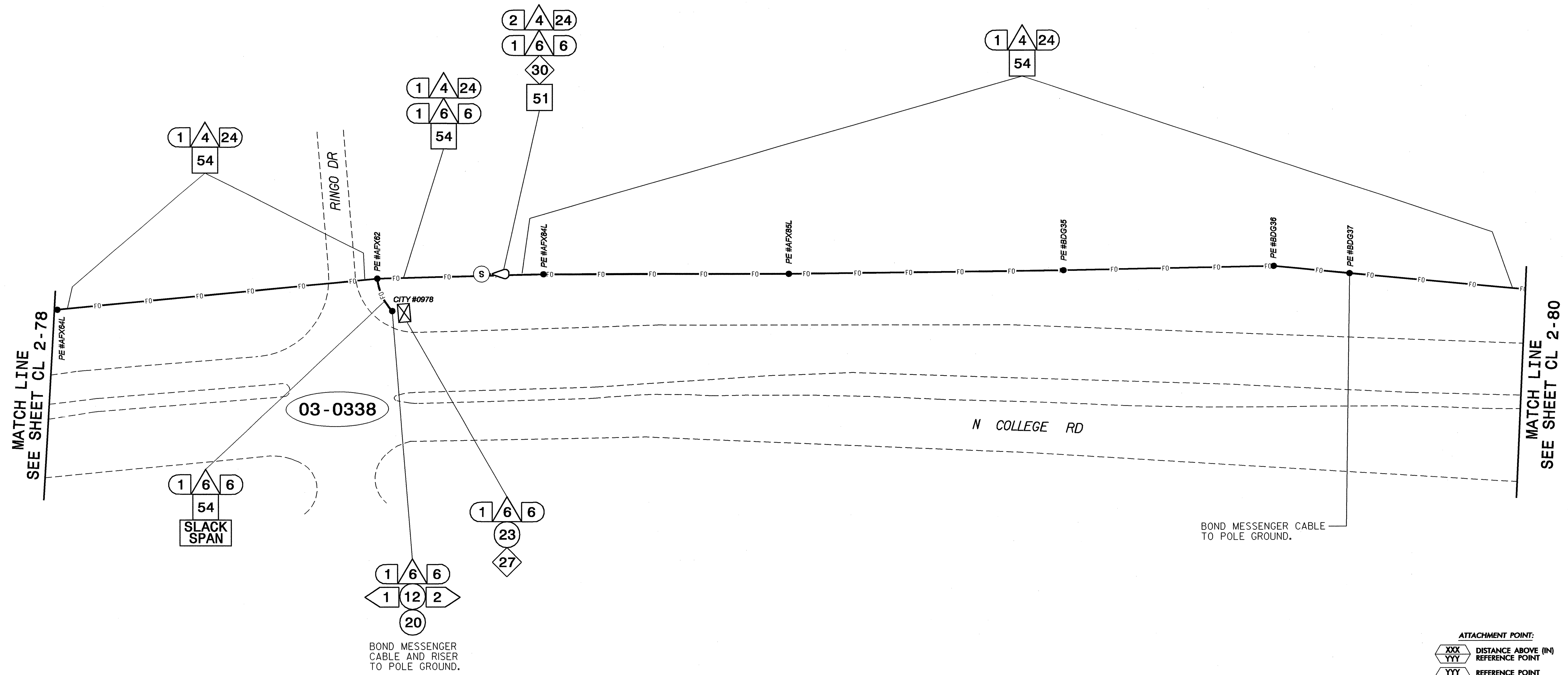
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

Signature: Lisa M. Moon 7-23-08

Scale: 1" = 50'

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MATCH LINE
SEE SHEET CL 2-78

MATCH LINE
SEE SHEET CL 2-80

03-0338

1 6 6
54
SLACK SPAN

1 6 6
1 12 2
20
BOND MESSENGER CABLE AND RISER TO POLE GROUND.

BOND MESSENGER CABLE TO POLE GROUND.

ATTACHMENT POINT:
 XXX
YYY DISTANCE ABOVE (IN) REFERENCE POINT
 YYY
XXX REFERENCE POINT DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOLOGY KEY

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

NUMBER OF FIBERS/TWISTED PAIRS: XX

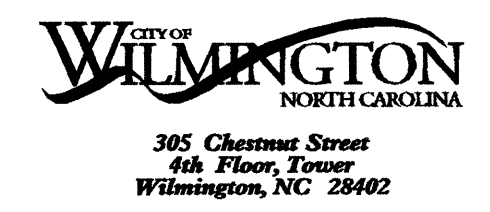
NUMBER OF RISER(S)/CONDUIT(S): XX

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

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4 INSTALL SMFO CABLE	15 DIRECTIONAL DRILL CONDUIT	26 INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37 INSTALL CCTV CAMERA WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59 INSTALL NEW POLE MOUNTED CCTV CABINET
5 INSTALL COAXIAL CABLE	16 BORE AND JACK CONDUIT	27 INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49 REMOVE EXISTING COMMUNICATIONS CABLE	60 INSTALL OMNI-DIRECTIONAL ANTENNA
6 INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17 INSTALL CABLE(S) IN EXISTING CONDUIT	28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	39 INSTALL SPECIAL-SIZED JUNCTION BOX	50 INSTALL TELEPHONE SERVICE	61 INSTALL 900MHZ RADIO
7 INSTALL TRACER WIRE	18 INSTALL CABLE(S) IN NEW CONDUIT	29 INSTALL UNDERGROUND SPLICE ENCLOSURE	40 INSTALL OVERSIZED JUNCTION BOX	51 INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE	62 INSTALL DIRECTIONAL ANTENNA
8 INSTALL CONDUIT UNDERGROUND	19 INSTALL CABLE(S) IN EXISTING RISER(S)	30 INSTALL AERIAL SPLICE ENCLOSURE	41 REMOVE EXISTING JUNCTION BOX	52 INSTALL SERVICE POLE	63 MAINTAIN EXISTING COMMUNICATION CABLE(S)
9 INSTALL PVC CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 NOT USED	42 INSTALL WOOD POLE	53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)	64 INSTALL AERIAL CABLE PROTECTOR
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PBSJ 1616 EAST WILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

Signature: Lisa M. Moon 2/23/08
DATE

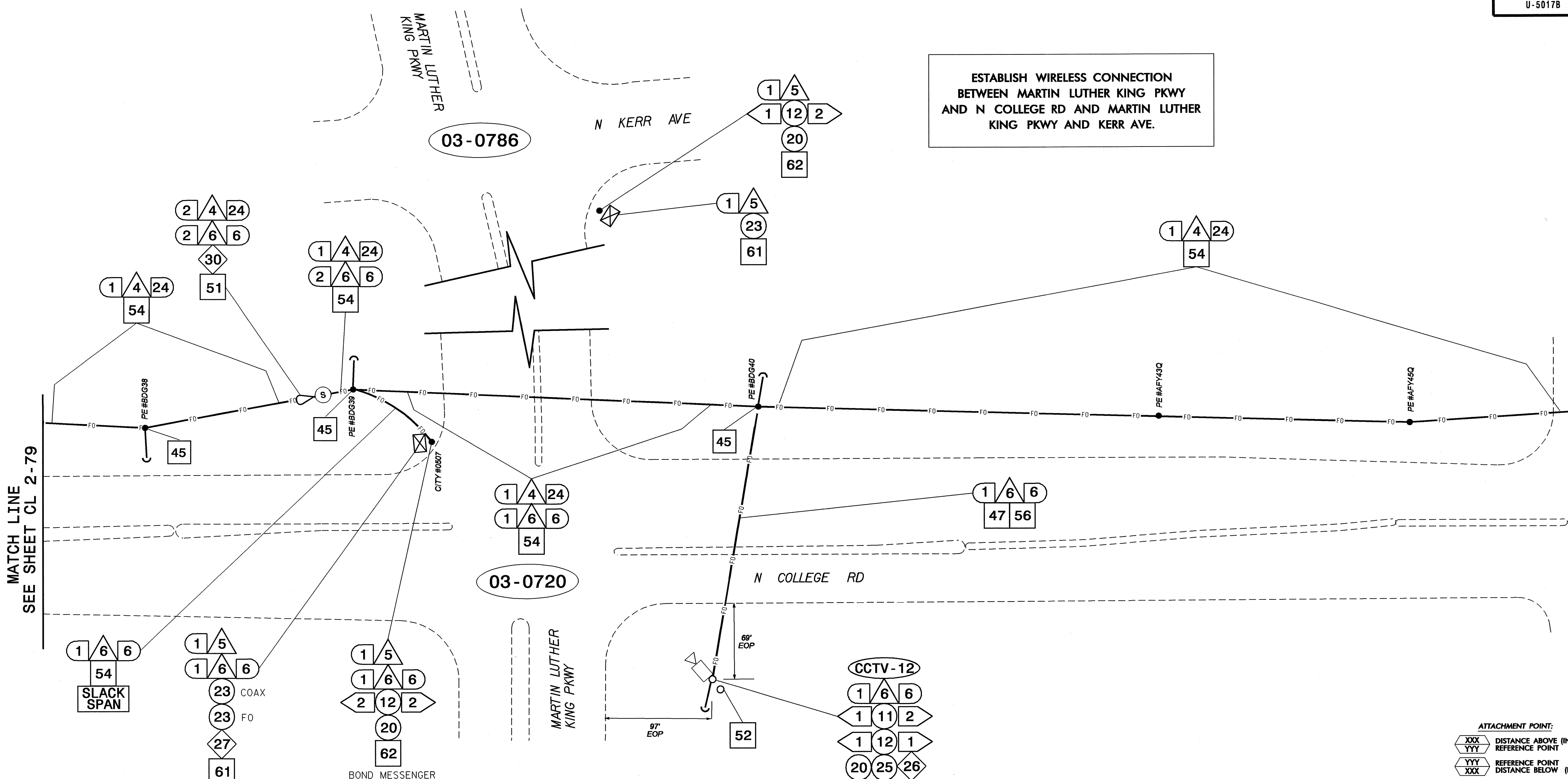
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Scale: 1" = 50'

CADD File Name: CL 2-079.DGN

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ESTABLISH WIRELESS CONNECTION
BETWEEN MARTIN LUTHER KING PKWY
AND N COLLEGE RD AND MARTIN LUTHER
KING PKWY AND KERR AVE.



MATCH LINE
SEE SHEET CL 2-79

MATCH LINE
SEE SHEET CL 2-81

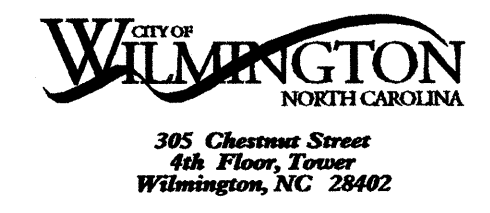
NOTES:

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- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

ATTACHMENT POINT:
 XXX
 YYY
 YYY
 XXX
 DISTANCE ABOVE (IN) REFERENCE POINT
 REFERENCE POINT
 DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLOGY KEY
 NUMBER OF CABLES/LOOPS, DETECTOR AMPLIFIERS, GUYS
 NUMBER OF FIBERS/TWISTED PAIRS
 NUMBER OF RISERS/CONDUIT(S)
 DIAMETER OF RISERS/CONDUIT(S) (IN)

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12. INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING	23. INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34. REMOVE EXISTING WIRELESS SYSTEM	45. INSTALL DOWN GUY ASSEMBLY	56. LASH CABLE(S) TO NEW MESSENGER CABLE
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(919) 876-6888

Prepared for the Offices of:

**Wilmington Signal System
Cable Layout Plans
Phase 2**

Division 03 New Hanover County Wilmington
 PLAN DATE: July 2008 REVIEWED BY: DL Jones
 PREPARED BY: DEC/JAW REVIEWED BY: LW Moon/WR Cooney

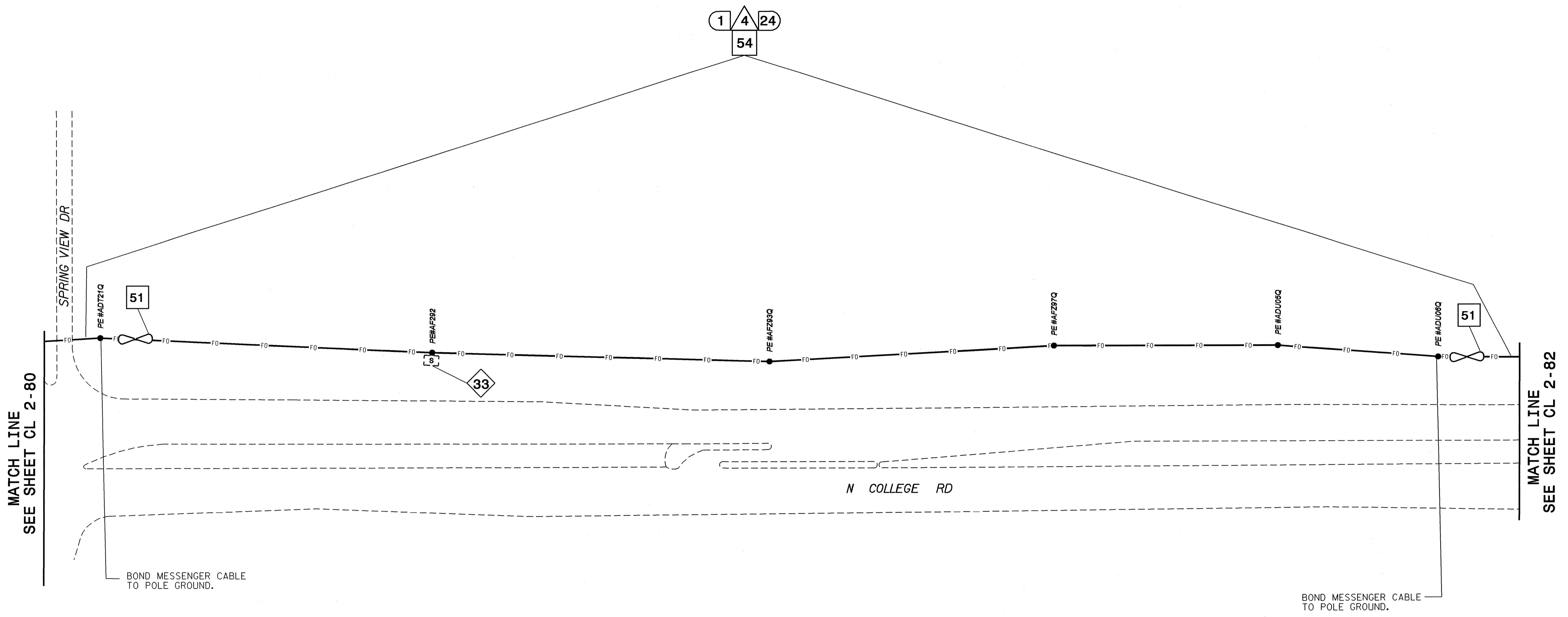
750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE _____

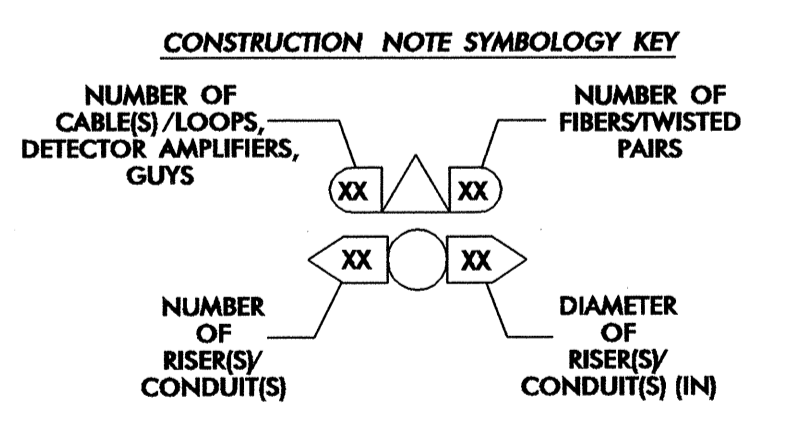
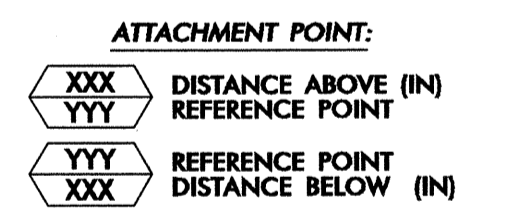
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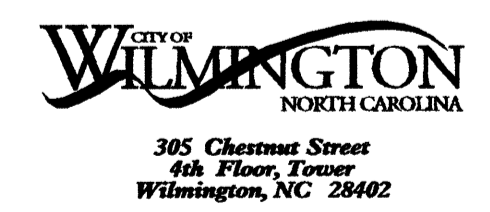
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

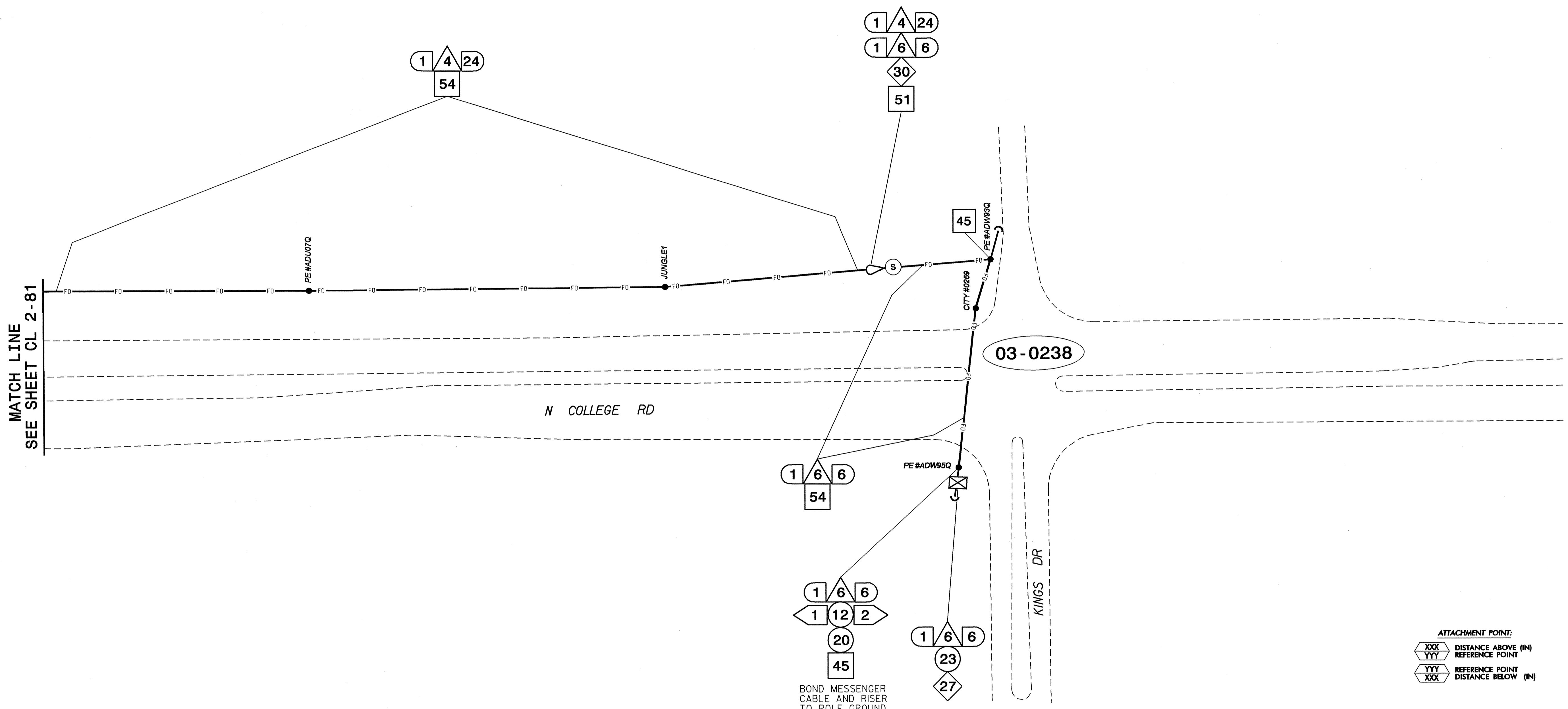
PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEG/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

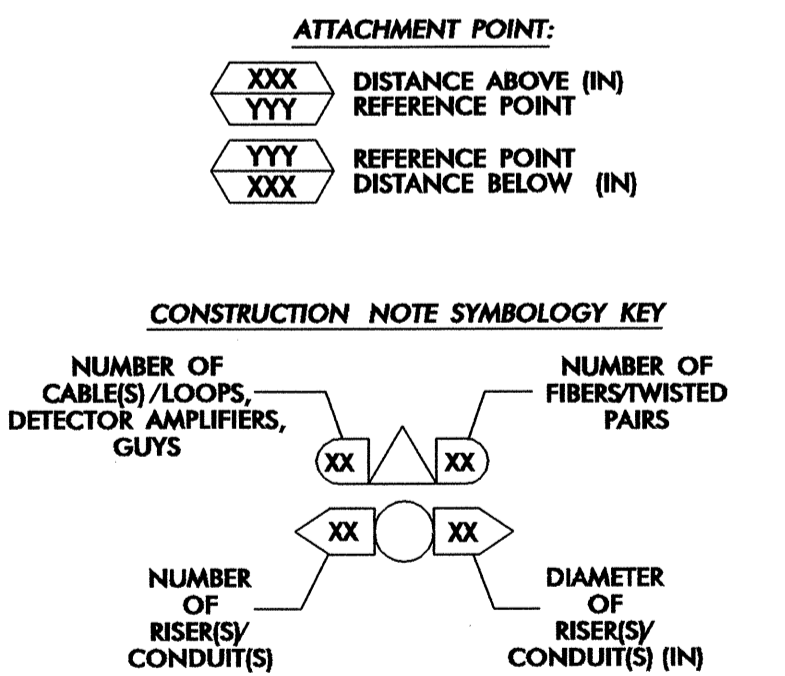
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DATE: 7-23-08
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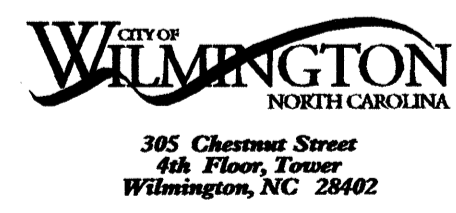


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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

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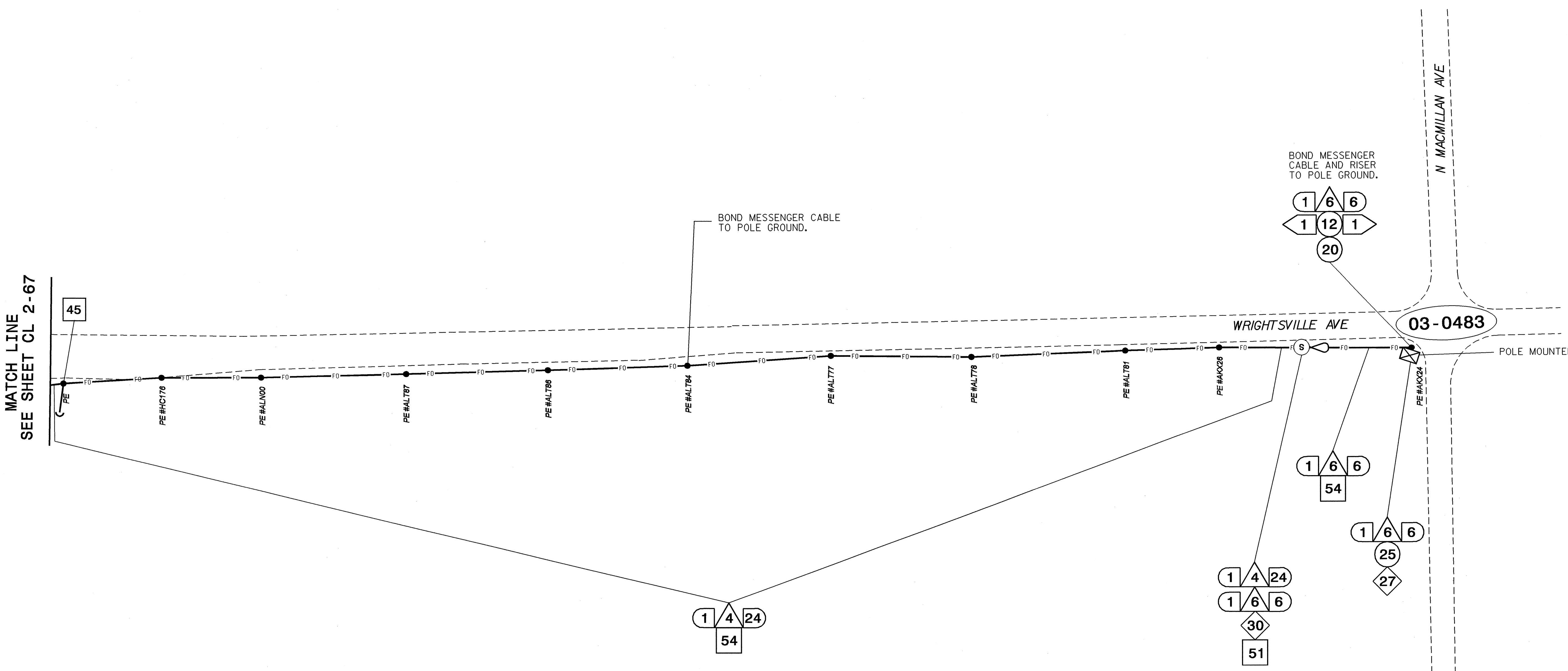
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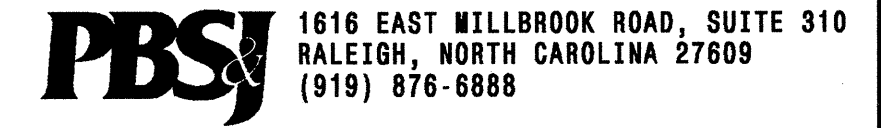
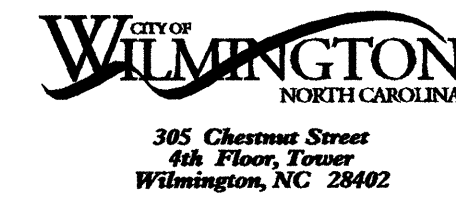
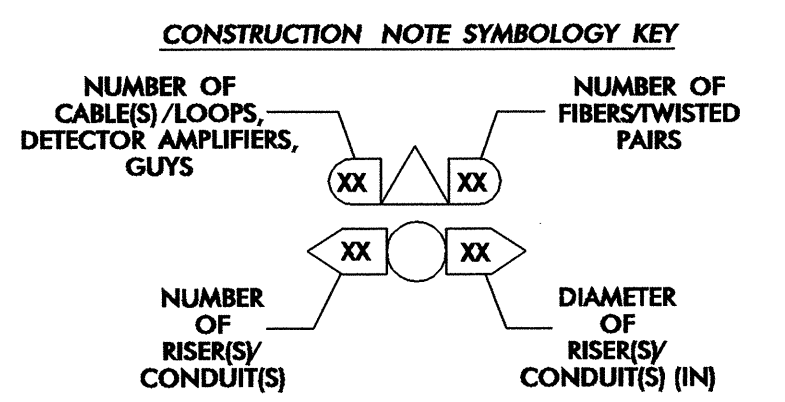
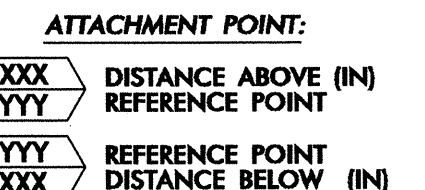
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11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22. INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	33. REMOVE EXISTING SPLICE CABINET	44. INSTALL AERIAL GUY ASSEMBLY	55. LASH CABLE(S) TO EXISTING MESSENGER CABLE	



Prepared for the Office of:
Public Utilities and Transportation
CITY OF WILMINGTON
750 Greenfield Parkway, Garner, NC 27529

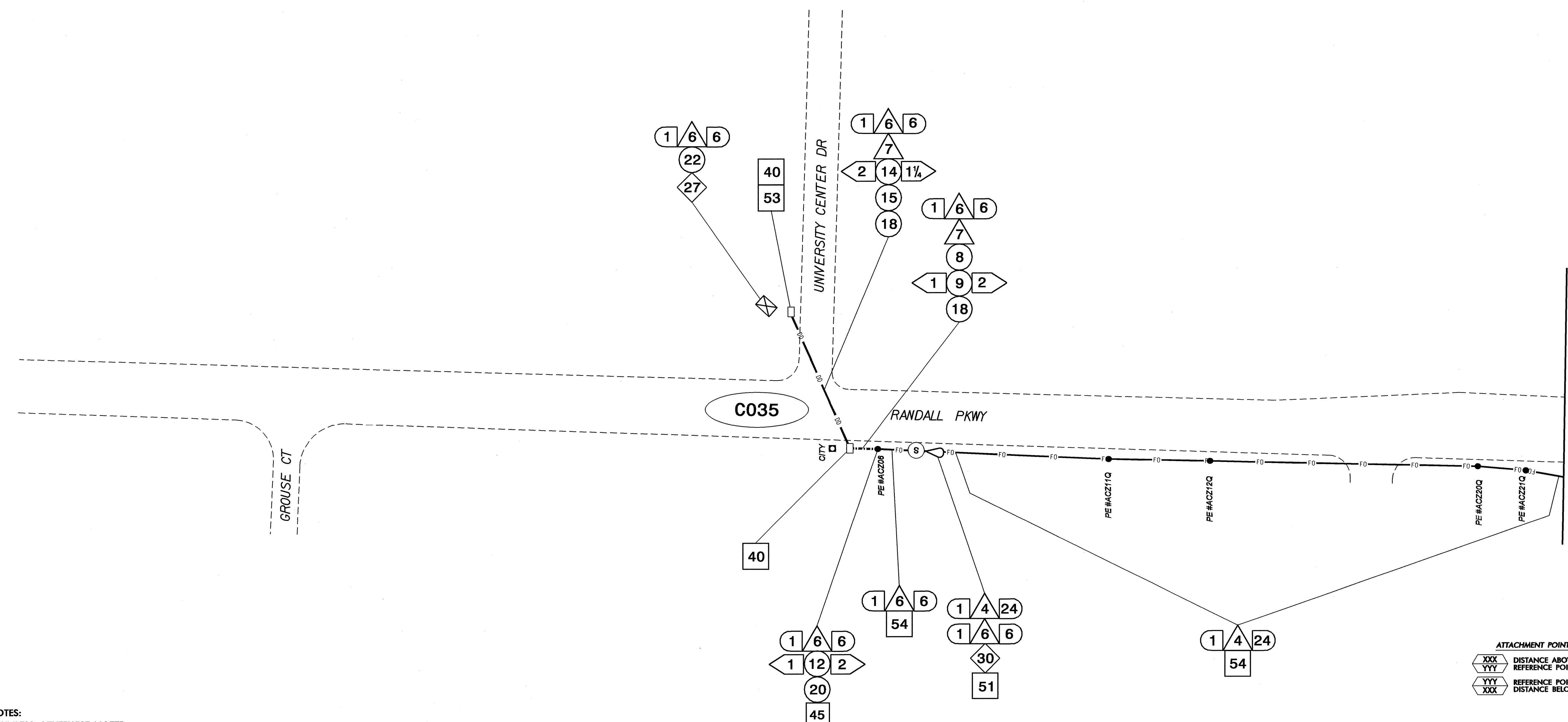
**Wilmington Signal System
Cable Layout Plans
Phase 2**

Division 03 New Hanover County Wilmington
PLAN DATE: July 2008 REVIEWED BY: DL Jones
PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS: _____ INIT. DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
022516
Lisa M. Moon 7-23-08
SIGNATURE DATE
CAD0 File name: CL 2-083.DGN

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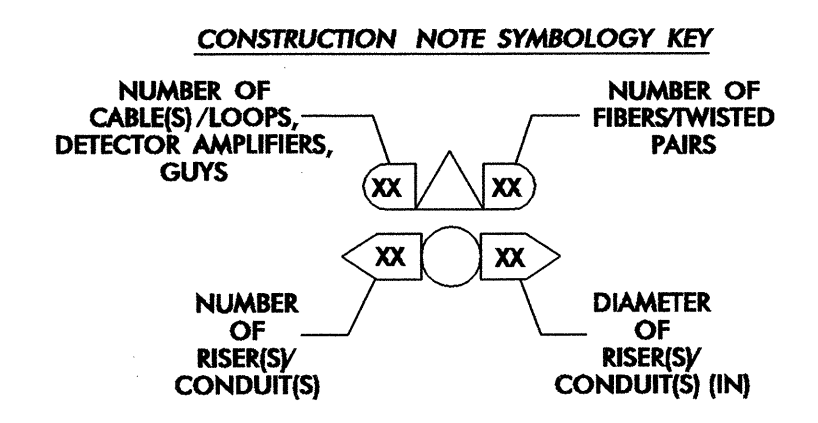


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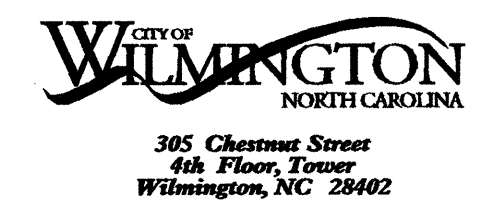
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 - ATTACH NEW MESSENGER CABLE 40" BELOW POWER AND ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENDS WITH MECHANICAL SEALING DEVICES AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

BOND MESSENGER CABLE AND RISER TO POLE GROUND, AND BOND TRACER WIRE TO RISER.

ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN) REFERENCE POINT
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)



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 (919) 876-8888

Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

750 Greenfield Parkway, Garner, NC 27529

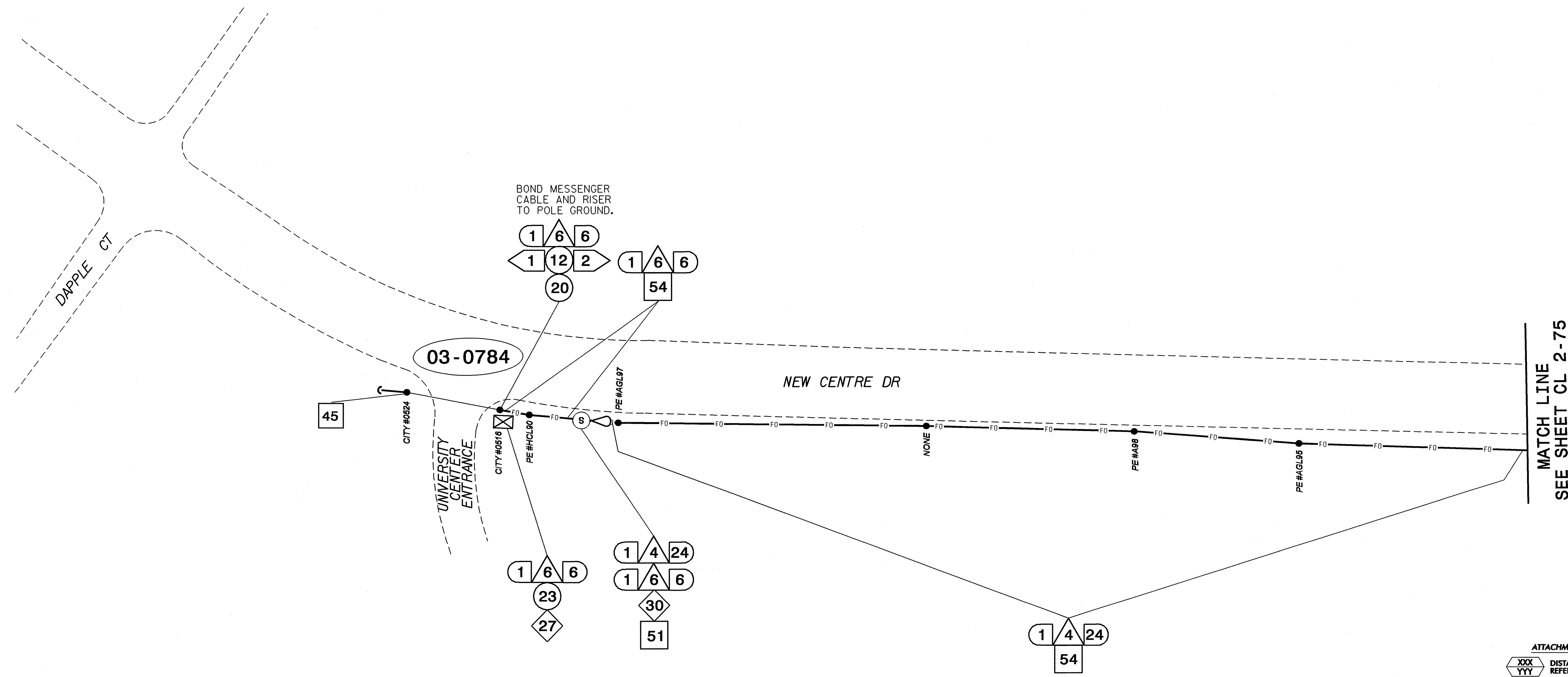
REVISIONS: _____ INIT. DATE

Signature: *Jim M. Moon* 7/23/08
 DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER, USA M. MOON, 022516

CADD File Name: CL 2-084.DGN

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ATTACHMENT POINT:
 XXX DISTANCE ABOVE (IN)
 YYY REFERENCE POINT
 YYY REFERENCE POINT
 XXX DISTANCE BELOW (IN)

CONSTRUCTION NOTE SYMBOLGY KEY

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

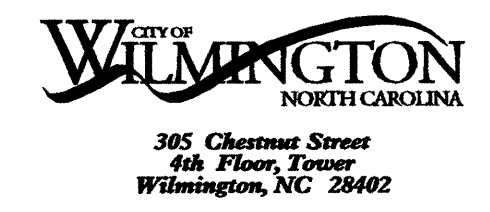
NUMBER OF FIBERS/TWISTED PAIRS: XX

NUMBER OF RISER(S)/ CONDUIT(S): XX

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

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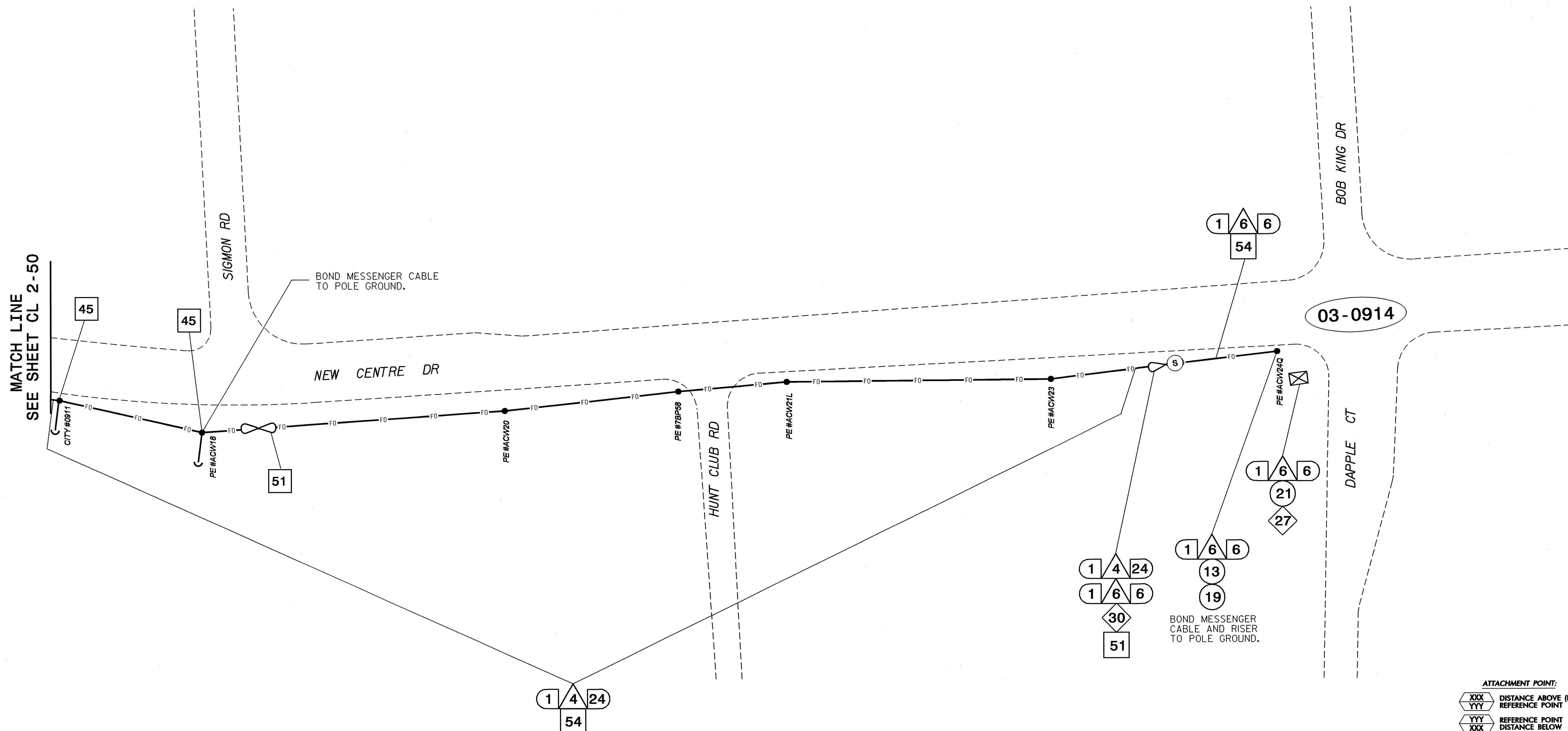
750 Greenfield Parkway, Garner, NC 27529

REVISIONS: _____ INIT. DATE

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1" = 50'

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 DATE: _____
 SIGNATURE: Lisa M. Moon 7/23/08
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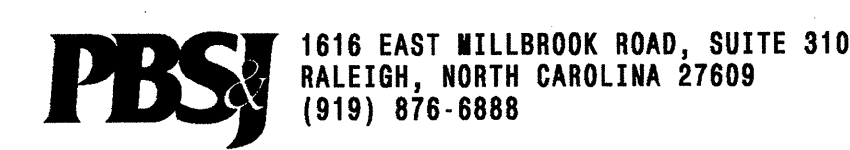
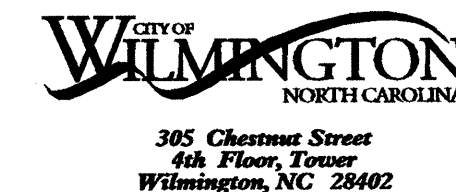
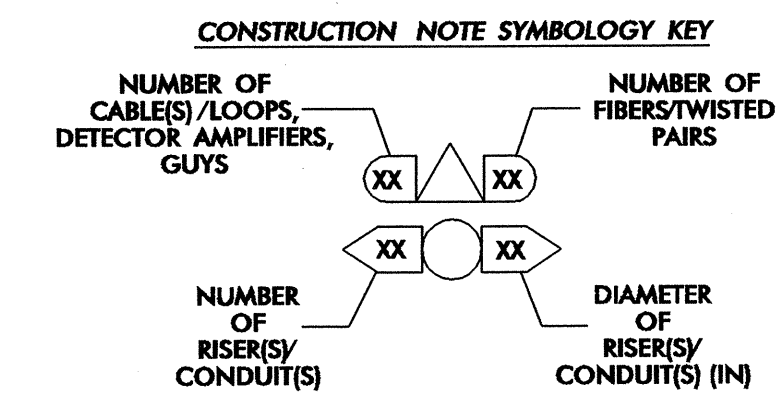
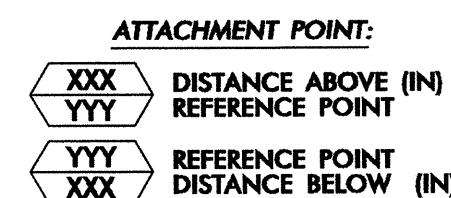
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Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

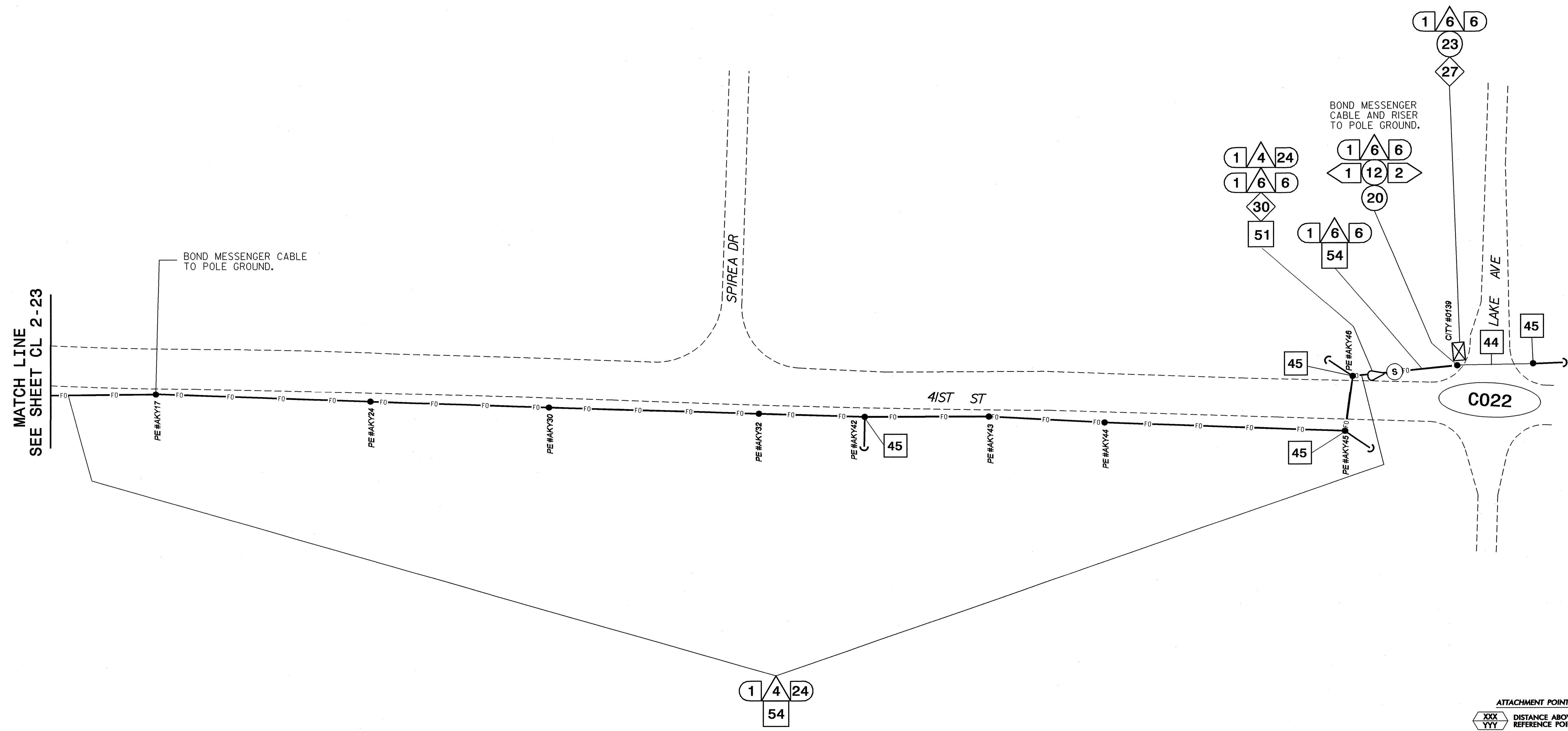
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022516
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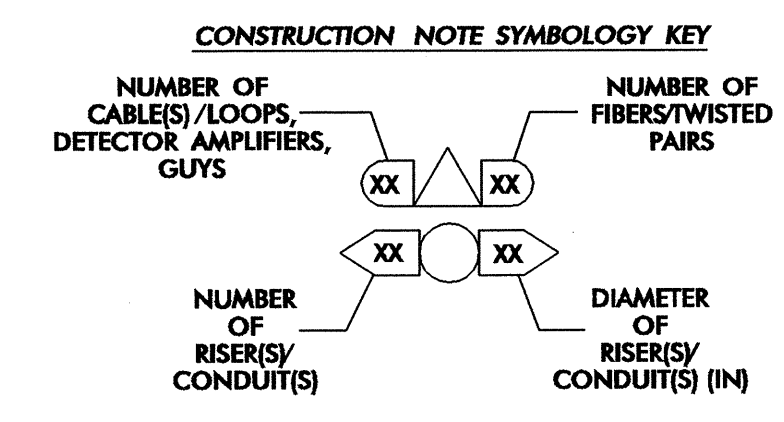
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CITY OF WILMINGTON
NORTH CAROLINA
305 Chestnut Street
4th Floor, Tower
Wilmington, NC 28402

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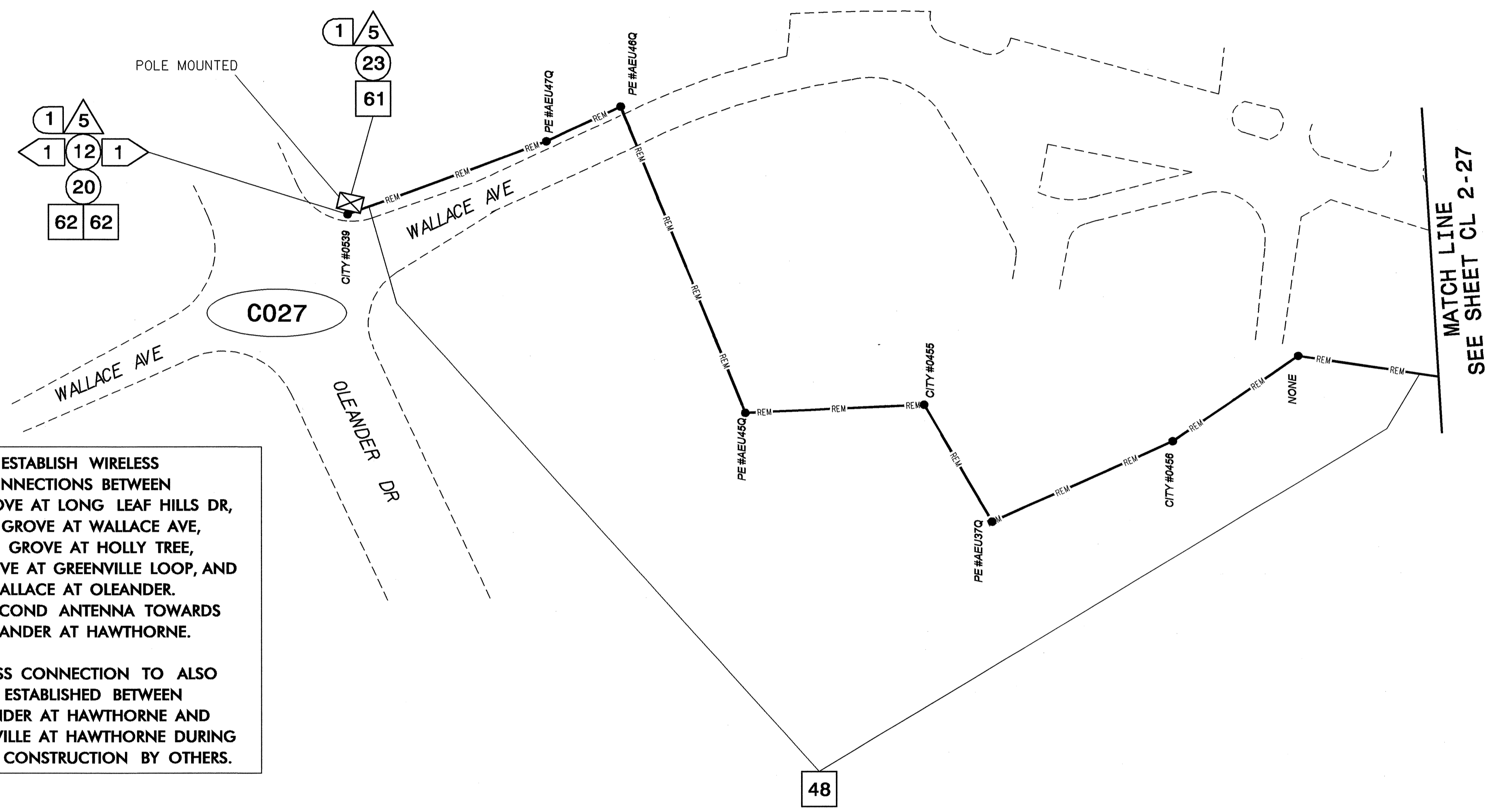
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INIT. DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
LISA M. MOON
022516

Signature: Lisa M. Moon 7-23-08
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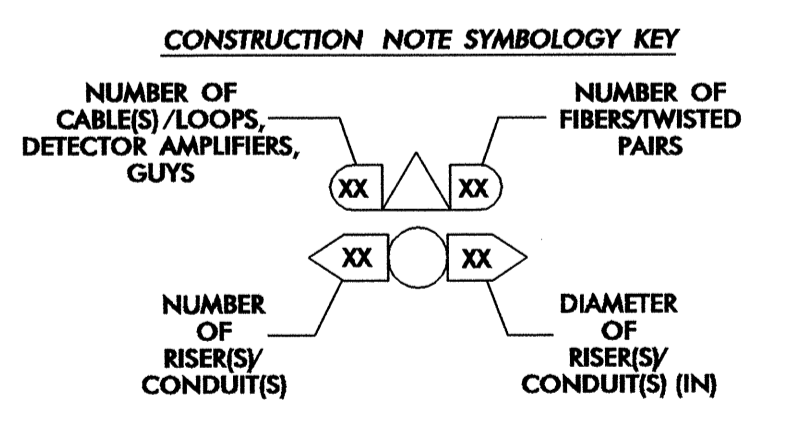
22-JUL-2008 13:36 G:\REG\CURR\280337.01 - Wilmington Sig Sys\CR\PHASE 2\CL2-087.dgn 13833



ESTABLISH WIRELESS CONNECTIONS BETWEEN PINE GROVE AT LONG LEAF HILLS DR, PINE GROVE AT WALLACE AVE, PINE GROVE AT HOLLY TREE, PINE GROVE AT GREENVILLE LOOP, AND WALLACE AT OLEANDER. AIM SECOND ANTENNA TOWARDS OLEANDER AT HAWTHORNE.

WIRELESS CONNECTION TO ALSO BE ESTABLISHED BETWEEN OLEANDER AT HAWTHORNE AND WRIGHTSVILLE AT HAWTHORNE DURING PHASE 3 CONSTRUCTION BY OTHERS.

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- SEAL ALL CONDUIT ENDS WITH MECHANICAL SEALING DEVICES AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TRANSITION FROM DIRECTIONAL DRILL TO UNDERGROUND CONDUIT WITHOUT SPLICING HDPE DUCT AND WITHOUT A JUNCTION BOX.

1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING RETROFIT KIT	23 INSTALL NEW RISER INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	34 REMOVE EXISTING WIRELESS SYSTEM	45 INSTALL DOWN GUY ASSEMBLY	56 LASH CABLE(S) TO NEW MESSENGER CABLE
2 INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	13 INSTALL HEAT SHRINK TUBING	24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	35 REMOVE EXISTING CCTV CAMERA ASSEMBLY	46 INSTALL SIDEWALK GUY ASSEMBLY	57 MODIFY EXISTING ELECTRICAL SERVICE FOR CCTV
3 INSTALL CATEGORY 5E CABLE	14 INSTALL HIGH DENSITY POLYETHYLENE CONDUIT	25 INSTALL NEW RISER INTO POLE MOUNTED CABINET	36 INSTALL CCTV CAMERA ASSEMBLY	47 INSTALL MESSENGER CABLE	58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV
4 INSTALL SMFO CABLE	15 DIRECTIONAL DRILL CONDUIT	26 INSTALL FIBER-OPTIC VIDEO/DATA TRANSCEIVER	37 INSTALL CCTV CAMERA WOOD POLE	48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	59 INSTALL NEW POLE MOUNTED CCTV CABINET
5 INSTALL COAXIAL CABLE	16 BORE AND JACK CONDUIT	27 INSTALL FIBER-OPTIC TRANSCEIVER - DROP AND REPEAT	38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	49 REMOVE EXISTING COMMUNICATIONS CABLE	60 INSTALL OMNI-DIRECTIONAL ANTENNA
6 INSTALL FIBER-OPTIC DROP CABLE ASSEMBLY	17 INSTALL CABLE(S) IN EXISTING CONDUIT	28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	39 INSTALL SPECIAL-SIZED JUNCTION BOX	50 INSTALL TELEPHONE SERVICE	61 INSTALL 900MHZ RADIO
7 INSTALL TRACER WIRE	18 INSTALL CABLE(S) IN NEW CONDUIT	29 INSTALL UNDERGROUND SPLICE ENCLOSURE	40 INSTALL OVERSIZED JUNCTION BOX	51 INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE	62 INSTALL DIRECTIONAL ANTENNA
8 INSTALL CONDUIT UNDERGROUND	19 INSTALL CABLE(S) IN EXISTING RISER(S)	30 INSTALL AERIAL SPLICE ENCLOSURE	41 REMOVE EXISTING JUNCTION BOX	52 INSTALL SERVICE POLE	63 MAINTAIN EXISTING COMMUNICATION CABLE(S)
9 INSTALL PVC CONDUIT	20 INSTALL CABLE(S) IN NEW RISER(S)	31 NOT USED	42 INSTALL WOOD POLE	53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE)	64 INSTALL AERIAL CABLE PROTECTOR
10 INSTALL RIGID, GALVANIZED STEEL CONDUIT	21 INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	32 NOT USED	43 REMOVE EXISTING WOOD POLE	54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	
11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	22 INSTALL NEW CONDUIT INTO CABINET BASE (USE EX CONDUIT STUBOUTS WHEN AVAILABLE)	33 REMOVE EXISTING SPLICE CABINET	44 INSTALL AERIAL GUY ASSEMBLY	55 LASH CABLE(S) TO EXISTING MESSENGER CABLE	



Prepared for the Offices of:

Wilmington Signal System Cable Layout Plans Phase 2

Division 03 New Hanover County Wilmington

PLAN DATE: July 2008 REVIEWED BY: DL Jones

PREPARED BY: DEC/JAW REVIEWED BY: LM Moon/MR Cooney

REVISIONS	INIT.	DATE

0 50
1" = 50'

Signature: Lisa M. Moon 7/23/08
DATE: 7/23/08
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER LISA M. MOON 022516

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