



JOB: #718602801 PHASE: SECTION:
XCEL OPGW - STH 35
LACROSSE, WI

PRELIMINARY
DATE: 9/4/2020



WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

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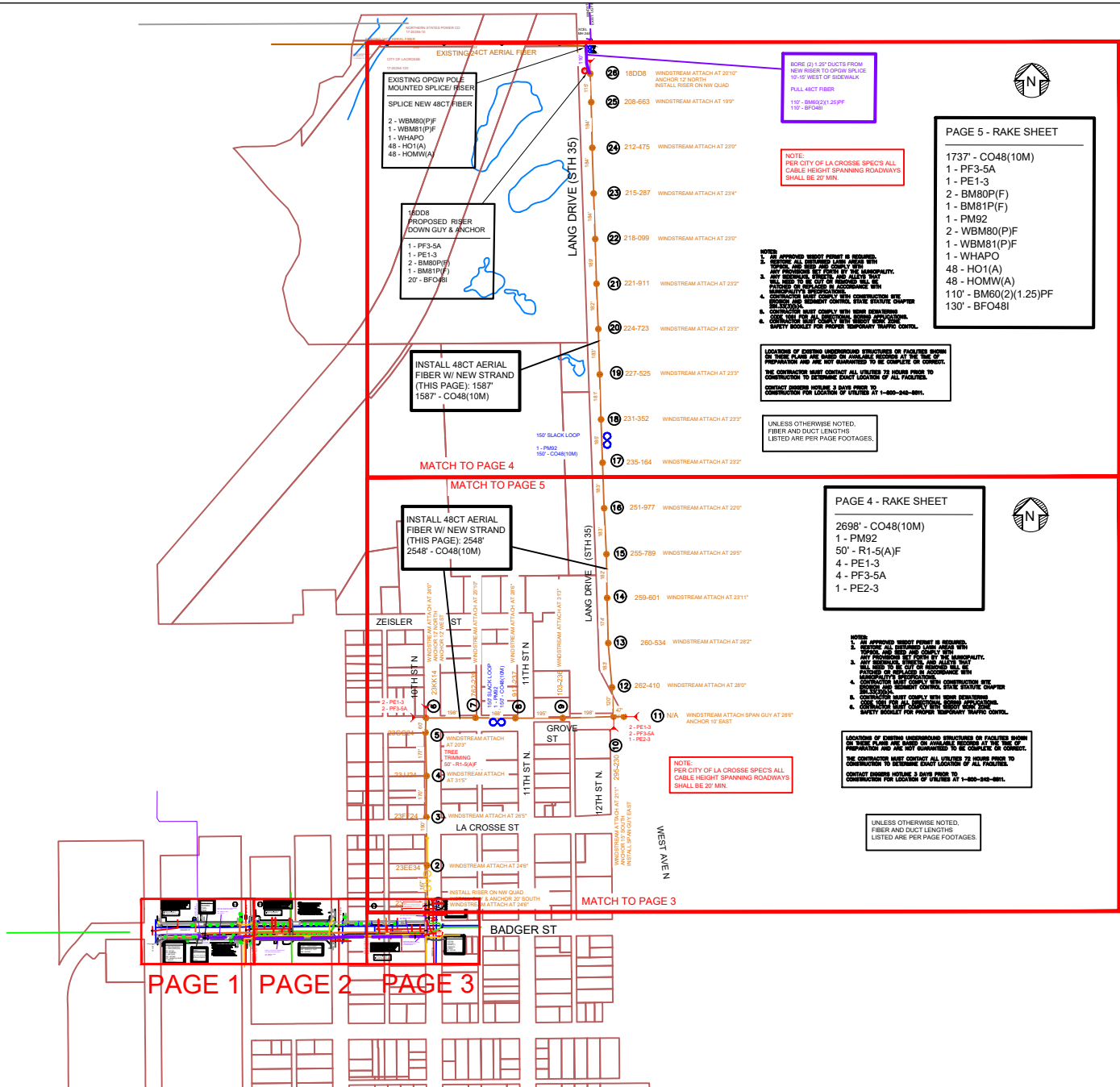
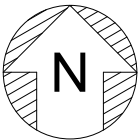
[illegible]718602801
COVER SHEET

PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

DESIGNED BY:	
DRAWN BY: NWT	
SCALE: N/A	
DATE DRAWN: 7/31/2020	
FILE NAME:	
CONSTRUCTION DRAWINGS	
JOB NUMBER:	
718602801	
SHEET:	TOTAL SHEETS:
CO1	4

[illegible]

OVERVIEW



PAGE 5

PAGE 4

PRELIMINARY
DATE: 9/4/2020

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx
TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:
ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:
NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-5	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

ROUTE OVERVIEW
















































JOB: 718602801
PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

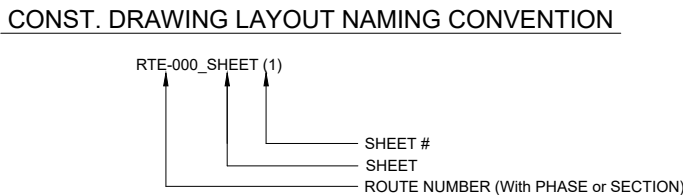
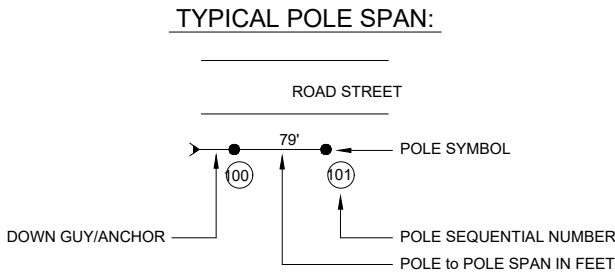
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REV	DATE	DESCRIPTION	ENG	DRAFTER

DESIGNED BY:	
DRAWN BY:	NWT
SCALE:	N/A
DATE DRAWN:	7/31/2020
FILE NAME:	CONSTRUCTION DRAWINGS
JOB NUMBER:	718602801
SHEET:	CO2
TOTAL SHEETS:	4

**WINDSTREAM, INC.**
15935 BISHOPS DRIVE
BROOKFIELD, WI 53005

TYPICAL SYMBOLS:			
	KDL POLE/PROPOSED POLE		INTERSTATE
	TELEPHONE POLE		STATE HIGHWAY
	JOINT USAGE, POWER AND TELEPHONE POLE		US HIGHWAY
	JOINT USAGE, POWER AND TELEPHONE POLE (WITH POWER TRANSFORMER)		RAILROAD CROSSING
	POWER TRANSFORMER POLE		MILE POSTS
	CATV POLE		PROPOSED UG FIBER
	POWER POLE		PROPOSED AERIAL FIBER
	STEEL POLE		RIGHT OF WAY
	CONCRETE POLE		CENTERLINE
	NEW GUY & SCREW ANCHOR		OTHER UTILITY AS NOTED
	NEW GUY & SIDEWALK ANCHOR		STREET LIGHT
	FORIEGN / EXISTING GUY & ANCHOR		MANHOLE
	SPLICE POINT		MARKERS
	SLACK LOOP		POWER HANDHOLE
	RISER		PULL BOX
	BORE PIT		SANITARY SEWER MANHOLE
	BUSH		SEWER MANHOLE
	TREE		SIGN
	CATV PED		STORM DRAIN
	ELECTRIC MANHOLE		STORM SEWER MANHOLE
	ELECTRIC PED		TELEPHONE PED
	FIRE HYDRANT		TRAFFIC SIGNAL CABINET
 	METERS (GAS OR WATER)		TRAFFIC SIGNAL HANDHOLE
 	VALVES (GAS OR WATER)		TRAFFIC SIGNAL POLE
	HANDHOLE		TRANSFORMER PIT



UG INSTALLATION NOTES:

1. MAINTAIN A MIN. 36" DEPTH.
2. PLACE (2) 1.25" HDPE DUCTS.
3. RESTORE ALL SURFACES TO BETTER OR ORIGINAL CONDITION.

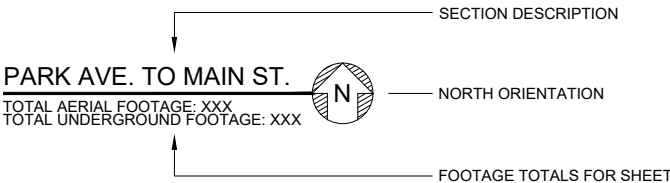
ONE CALL UTILITY LOCATION SERVICES

1. IL - "JULIE" - 1-800-892-0123 - "CHICAGO DIGGER" 1-312-744-7000
2. IN - IUPPS, "HOLEY MOLEY" - 1-800-382-5544
3. KY - KENTUCKY UNDERGROUND PROTECTION, INC. - 1-800-752-6007
4. OH - OUPS - 1-800-311-3692 OR 1-800-362-2764
5. TN - TOCS - 1-800-351-1111
6. VA - VUPS "MISS UTILITY OF VIRGINIA" - 1-888-258-0808 OR 1-800-552-7001
7. WV - "MISS UTILITY OF WEST VIRGINIA", INC - 1-800-245-4848
8. MI - "MISS DIG SYSTEM" (MICHIGAN) - 1-800-482-7171
9. WI - "DIGGERS HOTLINE" - 1-800-242-8511
10. MN - "GOPHER STATE ONE CALL" - 1-800-252-1166
11. IA - "IOWA ONE CALL" - 1-800-292-8989
12. AL - "ALABAMA ONE CALL" - 1-800-292-8525
13. AR - ARKANSAS ONE CALL SYSTEM, INC. - 1-800-482-8998
14. GA - GEORGIA UTILITIES PROTECTION CENTER - 1-800-282-7411
15. MS - "MISSISSIPPI ONE CALL" - 1-800-227-6477
16. MO - "MISSOURI ONE CALL" - 1-800-344-7483
17. FL - "SUNSHINE STATE ONE CALL" - 1-811 or (800)-432-4770
18. LA - "LA ONE CALL" - 1-800-272-3020
19. OK - "CALL OKIE" OKLAHOMA ONE CALL - 1-800-522-6543
20. TX - TOCS - "TEXAS ONE CALL SYSTEM" - 1-800-245-4545

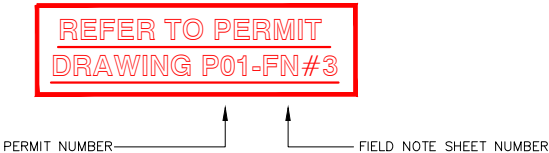
ABBREVIATIONS:

ANCH - ANCHOR
B - BELL
C / CATV - CABLE TV
F - FIBER
F/L OR E/L - FOG LINE or EDGE LINE
DG - DOWN GUY
M/S - MIDSPAN
NC - NO CLASS
NN / NT - NO TAG or NO NUMBER
OHG - OVERHEAD GUY
O/S - OFFSET (USED AS A POINT OF REFERENCE)
P - POWER
PPG - POLE TO POLE GUY
R/L - ROUTE LINE or RUNNING LINE
RLC - ROUTE LINE CHANGE
R&R - REMOVE AND REPLACE
R/W or ROW - RIGHT OF WAY
STLT / SL - STREET LIGHT
SS - SLACK SPAN
STRAND - BARE STRAND MESSENGER
T - TELEPHONE
TC - TRAFFIC CONTROL
TP - TOP OF POLE
TS - TRAFFIC SIGNAL
TT - TRIM TREES

CONSTRUCTION DRAWING TITLE NOTE:



PERMIT DRAWING NOTE:



PRELIMINARY
DATE: 9/4/2020

PROJECT INFORMATION:		CONTACT NAMES AND NUMBERS:		DRAWING LIST:						DRAWING STATUS			
TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx		<div>PROJECT MANAGER:</div> <div>ERIC BECKER C: (920) 461-9825 eric.becker@windstream.com</div>		SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION	DATE	DESCRIPTION	DRAFTER	SET
TOTAL SURVEYED UG FOOTAGE: xxugxx				CO1	COVER SHEET								
				CO2	ROUTE OVERVIEW								
				CO3	LEGEND AND GENERAL NOTES								
				CO4	RAKE SHEET								
TOTAL FIBER MILES: xxtotalxx		<div>DRAFTER:</div> <div>NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560</div>		1-5	CONSTRUCTION DRAWINGS								

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WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

LEGEND AND GENERAL NOTES

JOB: 718602801
PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

DESIGNED BY:	
DRAWN BY: NWT	
SCALE: N/A	
DATE DRAWN: 7/31/2020	
FILE NAME: CONSTRUCTION DRAWINGS	
JOB NUMBER: 718602801	
SHEET: CO3	TOTAL SHEETS: 4

RAKE SHEET

UNIT DESCRIPTION	UNIT	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	UNIT TOTALS
PULL CABLE IN DUCT	BFO48I	387	456	380		130	1353
PLACE FIBER BURIED HANDHOLE	BHF(30X48X36)T	1					1
BORE PLASTIC PIPE (2)	BM60(2)(1.25)PF	237	456	360		110	1163
NON METALLIC RISER GUARD PLACEMENT 1.5"	BM80PF			2		2	4
NON METALLIC RISER GUARD PLACEMENT 3"	BM81PF			1		1	2
MANHOLE WALL CORE (2.5")	BMCO(2.5)	1					1
AERIAL FO ASSEMBLY UNIT (STRAND)	CO48(10M)				2698	1737	4435
BURIED FIBER SPLICE CLOSURE ASSEMBLY	HBFO(48)	1					1
GROUNDING KIT	HBFO(GRDK)3M	2					2
AERIAL SPLICING	HO1(A)					48	48
BURIED SPLICING	HO1(B)	48					48
MAINTENANCE WINDOW ADDER (PROJECT SPECIFIC)	HOMW(A)					48	48
MAINTENANCE WINDOW ADDER (PROJECT SPECIFIC)	HOMW(B)	48					48
INSTALL SPAN GUY	PE2-3				1		1
INSTALL GUY ASSEMBLY UNIT	PE1-3			1	4	1	6
INSTALL HELIX ANCHOR ASSEMBLY UNIT	PF3-5A			1	4	1	6
INSTALL FIBER OPTIC SNOWSHOE	PM92				1	1	2
TREE TRIMMING	R1-5(A)F				50		50
REMOVE AND REINSTALL AERIAL FO SPLICE CASE	WHAPO					1	1
REMOVE UNDERGROUND SPLICE	XXHUO	1					1
REMOVE & REINSTALL CABLE U-GUARD (1.5")	WBM80(B)F					2	2
REMOVE & REINSTALL CABLE U-GUARD (3")	WBM81(B)F					1	1
REMOVE / REPLACE SIDEWALK	BM73			16			16

PRELIMINARY
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BROOKFIELD, WI 53005

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RAKE SHEET

JOB: 718602801
PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

DESIGNED BY:
DRAWN BY: NWT
SCALE: N/A
DATE DRAWN: 7/31/2020
FILE NAME:
CONSTRUCTION DRAWINGS

JOB NUMBER:
718602801

SHEET:
CO4

TOTAL SHEETS:
4

REV

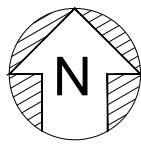
DATE

DESCRIPTION

ENG

DRAFTER

[illegible]



LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT.

THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.

CONTACT DIGGERS HOTLINE 3 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UTILITIES AT 1-800-242-8511.

UNLESS OTHERWISE NOTED,
FIBER AND DUCT LENGTHS
LISTED ARE PER PAGE FOOTAGES.

NOTES:

1. AN APPROVED CITY OF LA CROSSE PERMIT IS REQUIRED.
2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY'S SPECIFICATIONS.
4. CONTRACTOR MUST COMPLY WITH CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL STATE STATUTE CHAPTER 281.33(3)(b)4.
5. CONTRACTOR MUST COMPLY WITH WDNR DEWATERING CODE 1061 FOR ALL DIRECTIONAL BORING APPLICATIONS.
6. CONTRACTOR MUST COMPLY WITH WISDOT WORK ZONE SAFETY BOOKLET FOR PROPER TEMPORARY TRAFFIC CONTROL.

BADGER ST

9TH ST N

PAGE 2 - RAKE SHEET

456' - BM60(2)(1.25)PF
456' - BFO48I

BORE (2) 1.25" DUCTS 1' BEHIND WALK
PULL 48CT FIBER (THIS PAGE):

456' - BM60(2)(1.25)PF
456' - BFO48I

PRELIMINARY
DATE: 9/4/2020

PROJECT INFORMATION:

TOTAL SURVEYED AERIAL FOOTAGE: xxaerialxx

TOTAL SURVEYED UG FOOTAGE: xxugxx

TOTAL FIBER MILES: xxtotalxx

CONTACT NAMES AND NUMBERS:

PROJECT MANAGER:

ERIC BECKER
C: (920) 461-9825
eric.becker@windstream.com

DRAFTER:

NORTHWIND TECHNICAL SERVICES, LLC 414-459-3560

DRAWING LIST:

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
CO1	COVER SHEET				
CO2	ROUTE OVERVIEW				
CO3	LEGEND AND GENERAL NOTES				
CO4	RAKE SHEET				
1-5	CONSTRUCTION DRAWINGS				

DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

CONSTRUCTION DRAWING

JOB: 718602801
PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

DESIGNED BY:
DRAWN BY: NWT
SCALE: 1" = 30'
DATE DRAWN: 7/31/2020
FILE NAME:
CONSTRUCTION DRAWINGS
JOB NUMBER:
718602801
SHEET: 2
TOTAL SHEETS: 5

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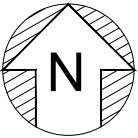
WINDSTREAM, INC.
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005

MATCH TO PAGE 5

INSTALL 48CT AERIAL FIBER W/ NEW STRAND (THIS PAGE): 2548' 2548' - CO48(10M)

PAGE 4 - RAKE SHEET

2698' - CO48(10M)
1 - PM92
50' - R1-5(A)F
4 - PE1-3
4 - PF3-5A
1 - PE2-3



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DATE: 9/4/2020

NOTE:
PER CITY OF LA CROSSE SPEC'S ALL CABLE HEIGHT SPANNING ROADWAYS SHALL BE 20' MIN.

MATCH TO PAGE 3

PROJECT INFORMATION:

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TOTAL SURVEYED UG FOOTAGE: xxugxx
TOTAL FIBER MILES: xxtotalxx

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CO4	RAKE SHEET				
1-5	CONSTRUCTION DRAWINGS				

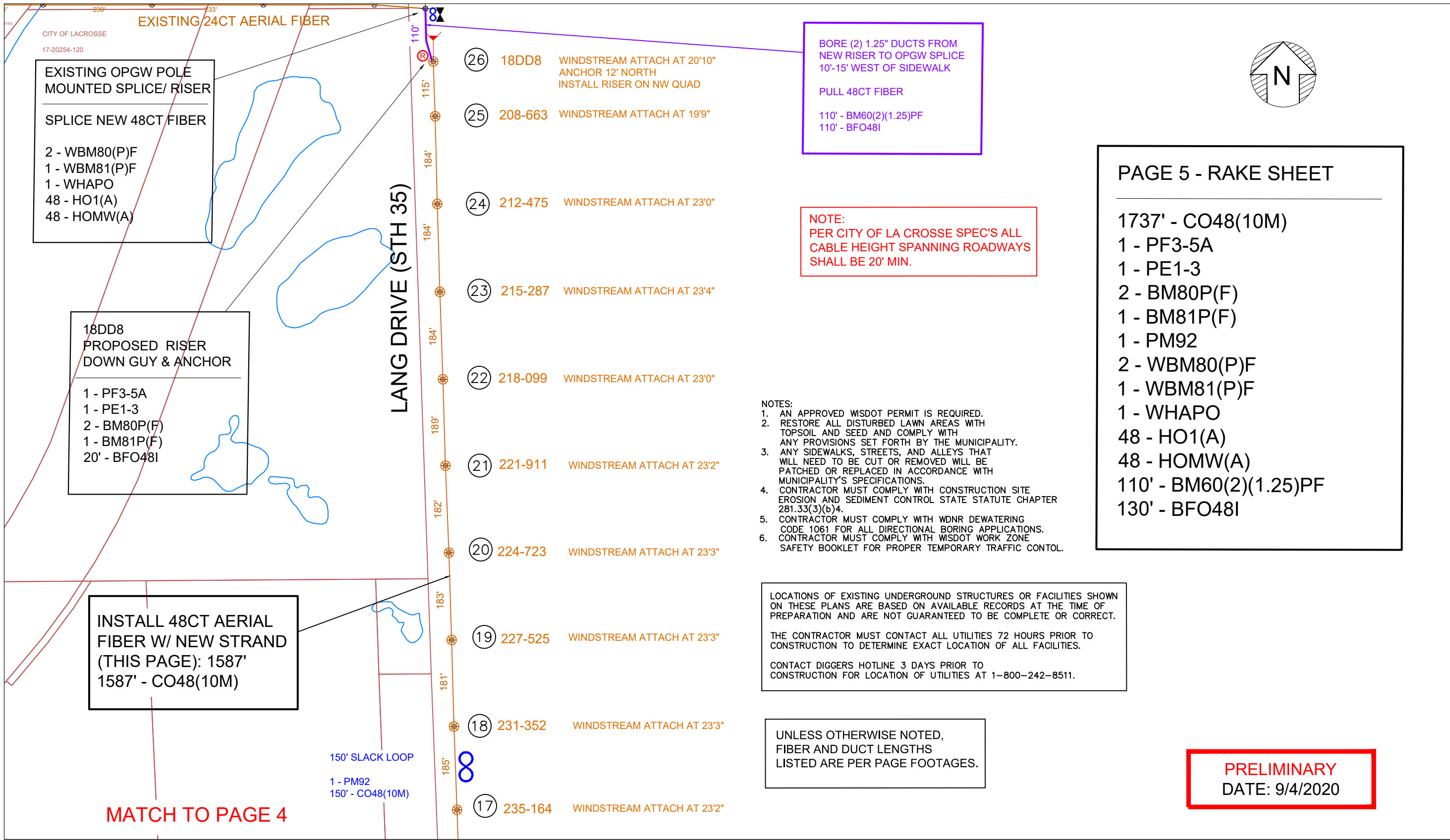
DRAWING STATUS

DATE	DESCRIPTION	DRAFTER	SET

CONSTRUCTION DRAWING

JOB: 718602801
PROJECT: XCEL - OPGW STH 35
LOCATION: LACROSSE, WI

DESIGNED BY:	
DRAWN BY: NWT	
SCALE: 1" = 200'	
DATE DRAWN: 7/31/2020	
FILE NAME: CONSTRUCTION DRAWINGS	
JOB NUMBER: 718602801	
SHEET: 4	TOTAL SHEETS: 5



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REV	DATE	DESCRIPTION	ENG	DRAFTER

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PROJECT INFORMATION:		CONTACT NAMES AND NUMBERS:		DRAWING LIST:				DRAWING STATUS			
TOTAL SURVEYED AERIAL FOOTAGE:	xxaerialxx	PROJECT MANAGER:		SHEET	DESCRIPTION	SHEET	DESCRIPTION	DATE	DESCRIPTION	DRAFTER	SET
TOTAL SURVEYED UG FOOTAGE:	xxugxx	ERIC BECKER C: (920) 461-9825 eric.becker@windstream.com		CO1	COVER SHEET						
TOTAL FIBER MILES:	xxtotalxx	DRAFTER:		CO2	ROUTE OVERVIEW						
				CO3	LEGEND AND GENERAL NOTES						
				CO4	RAKE SHEET						
				1-5	CONSTRUCTION DRAWINGS						