



SPECIAL SUPPLEMENTAL PERMIT PROVISIONS

It is understood and agreed that approval of this utility permit is subject to applicant's full compliance with the standard supplemental permit provisions, special supplemental provisions found listed below, and the Wisconsin Department of Transportation's *Utility Accommodation Policy (UAP)*, current edition (Also known as Highway Maintenance Manual – Chapter 9, Section 15)
<http://www.dot.wisconsin.gov/business/rules/property-uap.htm>

Permit Number: 2019263

1. A temp full roadway closure is needed for any OH line crossings of STH 32. 2 flagger-operation for the OH line crossing can be done. All traffic must be stopped until the OH line has been secured.
If the shoulder closure encroaches over the travel way edge-line, a lane closure with flagging is required to be in place instead of the shoulder closure.
2. (HMM 09-15-60-4.2) Send the LCS request to WisDOT for review and approval at the appropriate time in accordance with the following advance notifications guidelines:
 - a. 7 calendar days for any freeway ramp, lane or shoulder closure
 - b. 7 calendar days for full roadway closure of any state highway (detour involved)
 - c. 7 calendar days for closures that may impact oversize/overweight (OSOW) permits
 - d. 3 business days for closures non-freeway or shoulder closuresContact Josh Falk, (920) 366-8033 or joshua.falk@dot.wi.gov.
3. Several contaminated sites adjacent to the corridor, 0308001554 and 0308000888 seem to be of most concern.
4. Keep proposed utilities as close to right of way as possible. Avoid crossing roadway near all existing cross culverts. Move utilities away from roadway at all intersections, use all available right of way (vision corners).
5. Contact Russel Lewis (608) 516-5754 WisDOT Traffic Data Section 3 days prior to installing North of CTH E (by Co-op) to discuss boring near Traffic Counting Facility located from ped at STA 586+93 (loops run from ped across STH 32/57).
6. Chilton, New Holstein and Kiel have permitting authority along STH 32/57 within their City limits under "Connecting Highway Agreements". These areas have been permitted under separate permits for this project. Check their permits for any restrictions.
7. (HMM 09-15-45-3.2) Manual tracking is prohibited over traffic lanes. The bore head can be tracked up to the shoulder edge or back of curb. Bore shall be perpendicular to the highway, and bore pits established no closer to the highway than the toe of in slope or back of curb.
8. The depth of bury for underground facilities crossing the right of way shall be a minimum of 36 inches as measured from a straight line connecting the lowest points of the finished ground or pavement surface on each side of the right of way to the top of the facility at the time of installation.
9. The depth of bury for underground facilities in the right of way shall be a minimum of 36 inches as measured from the finished ground surface to the top of the facility at the time of installation.
10. (HMM 09-15-25-2.2) Facilities crossing over the highway shall at no time be less than 20 feet above the high point of the traveled way.
11. During the bore operation, please monitor the bore path across sensitive resources for inadvertent frac-outs. Please make sure the contractor has appropriate materials on site to contain and clean up a frac-out in wetlands and waterways if one should occur (DNR Comment).
12. (HMM 09-15-45-5.0) Restore any curb, gutter, pavement, shoulder, sidewalk, driveway, gravel base, ballast, or other highway element disturbed to the qualities, grades, compactions, conditions, etc., in accordance with WisDOT's [Standard Specifications for Highway and Structure Construction, current edition](#).



APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

Wisconsin Department of Transportation
DT1553 7/2017 s. 66.0831, 84.08, 85.15, 86.07(2)(a), 86.16, 182.017 and other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Net-Lec LLC - Rick Vincent 450 Security Blvd Green Bay WI, 54313		2. Work Start Date Upon Approval 9/7/2019	3. Work Finish Date* 12/1/2020 9/1/2020	6. Location Description (¼ section, section, town, range; provide plat and/or location maps) See Page 2	
9. Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.) ☒ Comm: 1-96ct fiber optci ☐ Electric: ☐ Gas/Oil: ☐ Water: ☐ Sewer: ☐ Casing: ☒ Conduit: 2-1.25" HDPE ☐ : ☐ Transmission ☐ Service ☐ Distribution ☐ Service (ESCP)		12. Proposed Work Methods (Check all that apply) ☐ Trench ☒ Plow ☐ Place fill ☐ Rock blasting ☐ Place cable ☐ Open cut in conduit pavement ☐ Hand/mechanical excavation Bore: ☐ Hydraulic (Auger/Jack/Tunnel) ☐ Pneumatic (Mole) ☒ Directional 1 (Manually tracked) ☐ Directional 2 (Computer tracked) ☐ Unknown (At this time)		7. Work Location (List all that apply) Town: See page 2 Village: Hilbert City: Chilton, New Holstein County: Calumet	
10. Facility Orientation (Check all that apply) ☒ Underground ☒ Overhead ☒ Crossing ☒ Parallel ☐ OSOW high clearance route ☐ Structure attachment ☐ Scenic easement (Off right-of-way)		13. Work Zone Description (Check all that apply). (Provide relevant diagram(s) with application.) ☐ Not applicable ☐ Full road closure: detour ☐ Full road closure: temporary ☐ Lane closure: without flagging ☐ Lane closure: with flagging ☒ Lane encroachment (2 feet or less) ☒ Intersection/roundabout ☒ Shoulder/parking lane closure ☐ Railroad crossing Freeway/expressway location ☐ Off shoulder: < 30' off white line ☐ Off shoulder: ≥ 30' off white line ☐ Near right-of-way line or fence Non-freeway/expressway location ☒ Off shoulder: < 15' off white line ☒ Off shoulder: ≥ 15' off white line ☐ Back of curb: < 2' behind ☐ Back of curb: ≥ 2' behind		8. Highway (List all that apply) WIS: 32/57 US: Interstate:	
11. Work Types (Check all that apply) ☒ New facility ☐ Remove ☐ Joint install ☐ Maintenance ☐ Improve or ☐ Discontinue, repair existing left in place ☐ Chemically treat		14. Is the facility near a survey monument? If yes, provide a description and/or specification for each item. ☐ Yes ☒ No 15. Will appurtenances be installed with the facility? If yes, provide a description and/or specification for each item. ☒ Yes ☐ No 16. Trans 401 project designation? If Major, provide a formal erosion control plan. HMM 09-15-55 ☐ Major ☒ Minor 17. Are any environmental approvals, certifications or permits required from other regulatory agencies, including tribal governments? If yes, provide a copy of each item. If no, provide proof of other agency coordination as needed. ☒ Yes ☒ No (In file for permit)			

* Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Rick Vincent	Telephone Number 920-617-7316	It is understood and agreed that WisDOT approval is subject to the applicant's full compliance with all pertinent statutes, as well as any regulations and rules of other jurisdictional agencies (which may be more restrictive), any supplemental permit provisions, and WisDOT's Utility Accommodation Policy , current edition.
19. Utility or Project 24/7 Emergency Contact Rick Vincent	Telephone Number 920-617-7316	
20. Provide company name and address of utility authorized representative if not employed by the applicant. Dennis LaFave (920)619-9774 Mi-Tech Services Inc. 1345 North Road, Suite B Green Bay, WI 54313 DLAFAVE@mi-tech.us		Rick Vincent (Utility Authorized Representative Signature – If filled via computer, brush script font) Senior Network Operations MGR 920-617-7316 rick.vincent@nsight.com 8/14/2019 (Date)
21. Provide additional work details, if needed (use back page or include separate pages) Prime Contractor: HBI, Bryan Holtger 920-337-9980 24/7 emergency # 920-620-4298		This permit does not transfer any land, or give, grant or convey any land right, right in land, or easement in WisDOT right-of-way. It is not assignable or transferrable. If a utility facility changes ownership, this permit terminates. The new owner must obtain a permit in order to operate and maintain the facility in WisDOT right-of-way.

For Wisconsin Department of Transportation Use Only

☒ UTILITY SHALL NOTIFY WisDOT REPRESENTATIVE LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK: Region contact, office address, telephone number and email address Linda Skaleski WisDOT, Northeast Region 944 Vanderperren Way Green Bay, WI 54304 920-492-4166 dotdtsdneutilitycoordination@dot.wi.gov	☒ Review All Supplemental Permit Provisions ☒ Revisions Made to Drawings or Other Pages ☒ Lane Closure System notification required HMM 09-15-60 ☐ Insurance or performance bond required ☐ Joint installation: See permit(s) # ☐ Private utility (Non-public ownership and/or use) ☐ Expedited Service Connection Permit ☐ This permit voids & supersedes # issued: ☐	Application Received 8/14/2019 Application Completed 1/30/2020 Permit Issued 2/4/2020 Permit Extended Permit Amended
	Linda K. Skaleski Digitally signed by Linda K. Skaleski Date: 2020.02.04 15:25:47 -06'00'	Permit Number 2019263

APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY *(continued)*

Wisconsin Department of Transportation

DT1553

Use this section to provide information that does not fit on front page

Net-Lec placing (2) 1.25" HDPE conduits with one containing a 96ct fiber optic cable via plow/directional drill in the buried sections. Placing (1) 96ct fiber optic cable in the aerial sections. Construction prints included.

Location description: S0719N20E, S1219N19E, S1319N19E, S1819N20E, S2419N19E, S1919N20E, S3019N20E, S2519N19E, S3619N19E, S3119N20E, S618N20E, S718N20E, S1218N19E, S1818N20E, S1918N20E, S2918N20E, S3218N20E, S3318N20E, S417N20E, S917N20E, S1017N20E, S1417N20E, S2317N20E, S2417N20E,

Townships: Woodville, Rantoul, Chilton, Charleston, New Holstein

Existing power companies: WE Energies, WPS, New Holstein Public Utility, Kiel Utilities

INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes harmless, as allowed by Wisconsin law, from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.



STANDARD SUPPLEMENTAL PERMIT PROVISIONS

For Wisconsin Department of Transportation Utility Facility Permits

Acronyms used in this document:

- BMPs: Best Management Practices
- R/W: Right-of-Way
- UAP: Utility Accommodation Policy
- HMM: Highway Maintenance Manual
- WisDOT: Wisconsin Department of Transportation

1. GENERAL WORK REQUIREMENTS

- As required by Wisconsin Statute 182.0175, when filing your Diggers Hotline request ensure that this WisDOT Permit Number is in the Remarks Section of the Diggers Hotline Ticket.
- The Permittee shall bore under all driveways, private entrances, wetlands, culverts, and all roadways.
- The Permittee is responsible for obtaining any permits from the Department of Natural Resources, or any other agency that may have an interest in the area impacted by the construction of the utility facility.

2. **WORK DUE TO A WISDOT HIGHWAY PROJECT.** This approved permit constitutes acceptance that the work in this permit is compatible with permit requirements. This approved permit is NOT a Work Plan Approval/Start Work Notice as required by Trans 200.05(07). This approved permit is NOT a Work Plan Approval/Start Work Notice for a non-Trans 220 project. This approved permit does NOT approve or authorize an agreement between WisDOT and the Permittee for compensable work due to a WisDOT highway project.

3. **PERMIT TERM.** For as long as the Permittee continues to own, operate and maintain this utility facility within WisDOT R/W in accordance with the terms of its permit and WisDOT's UAP, this permit shall be valid.

4. **REVOCATION BY WISDOT.** WisDOT may revoke this permit if its own use of the R/W would be facilitated by the full or partial relocation of the Permittee utility facility, and shall provide the Permittee with written notice prior to revocation. At which time WisDOT shall work with the Permittee to find a suitable replacement area on R/W near the terminated location if possible. WisDOT shall not compensate the Permittee to move its utility facility in keeping with WisDOT's policy on compensable / non-compensable utility facility moves.

5. **TERMINATION BY PERMITTEE.** The Permittee may terminate this permit upon 60 days written notice to WisDOT. Upon such termination, the Permittee shall either remove its communication cable facility from the R/W, or abandon it in-place provided it does not constitute an environmental hazard.

6. **HOLIDAY WORK RESTRICTIONS for 2020.** The Permittee shall not work on January 1, May 25, July 3 & 4, September 7, and November 26, and December 25.

7. **WORK-TIME RESTRICTIONS.** Weekday work is from sunrise to sunset. Weekend work may be allowed upon prior approval from WisDOT. No work shall take place during nighttime hours unless authorized by WisDOT.

8. **TRAFFIC CONTROL.** All work zone traffic control will be in accordance with the Wisconsin Manual on Uniform Traffic Control Devices. Additional guidance is available from WisDOT through a booklet entitled, *Work Zone Safety, Guidelines for Construction, Maintenance, and Utility Operations* or from HMM 09-15-60.

9. **WORK AREA PROTECTION DURING NON-WORK TIMES.** The Permittee may store vehicles, equipment, or materials on the non-freeway R/W provided they are placed as close to the non-freeway R/W line as possible, but no less than 30 feet from the edge of the nearest travel lane. If vehicles, equipment, or materials must be parked or stored within an area that is less than 30 feet from the edge of the nearest travel lanes, appropriate temporary concrete or water-filled barriers, signing, and devices shall be utilized. The Permittee shall ensure that any excavations left open during non-work times are well marked and secured from public intrusion.

The primary objective will be maintenance of a safe traffic and working environment. No operation shall to any extent pose any hazard neither to, nor in any manner influence traffic at any time.

All vehicles used to conduct the work operations will be equipped with conspicuously visible roof-mounted revolving or strobe lights. These lights shall be in operation just prior to and during the time the work operations are being conducted. Hazard warning lights on the vehicles must also be operating.

10. **WORK RESTRICTIONS.** For the purposes of placement of these facilities, as stated with this permit request, the State security fence shall not be opened or damaged.

11. **CLEAR ZONE / DRAINAGE INTERFERENCE.** No topsoil or other excavated piles of soil shall be deposited in any manner that interferes with the clear zone or regular drainage patterns within the highway.

As much as possible, all equipment, operations, and spoil material should be situated or accomplished off of the highway.

12. **EROSION CONTROL.** The Permittee shall use the appropriate erosion control BMPs to contain soil directly at the site to prevent disturbed soil from getting into nearby waterways and wetlands. All appropriate erosion control devices shall be in place **prior to starting construction activities**. Temporary seeding shall be used as necessary after rough grading and before completion of the project. The Permittee shall ensure that erosion control BMPs used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The Permittee shall take all precautions necessary to prevent mud, dirt, or other debris from being deposited onto the shoulder or pavement of all access roads or highways. Any materials deposited on the shoulder or pavement shall be removed immediately. Ruts may remain as is if the Permittee is accessing the R/W from private property, but appropriate erosion control BMPs shall be used to contain disturbed soil at the site.

13. **R/W RESTORATION.** Upon completion of the project a variation of erosion control measures will be required to restore the area that has been disturbed allowing it to return to the manner it was in previous to the construction. All disturbed sites will require a seed mixture that includes a quick sprouting variety with fertilizer and mulch. Other possibilities that may have to be considered are Geotextile fabric, e-mat, and stone ditch checks.

The Permittee is responsible to assure that erosion control measures used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The basic drainage pattern of the highway shall remain undisturbed by the permitted work. Upon project completion, all spoils, debris, refuse, and waste resulting from the permitted work shall be removed from the work site. Should future maintenance work on the Permittee's utility facility result in the disturbance of the existing R/W, the Permittee shall restore the R/W to its original condition as soon as possible.

Any works or operations not in full compliance herewith shall justify an order by any inspecting officer of WisDOT to cease all further progress on the work, and to accomplish all restorations of disturbed areas, including full restorations of the pavement

Upon completion of the work, all disturbed areas shall be restored according to requirements stated in the Utility Accommodation Policy, HMM 09-15-65, and in a manner satisfactory to WisDOT

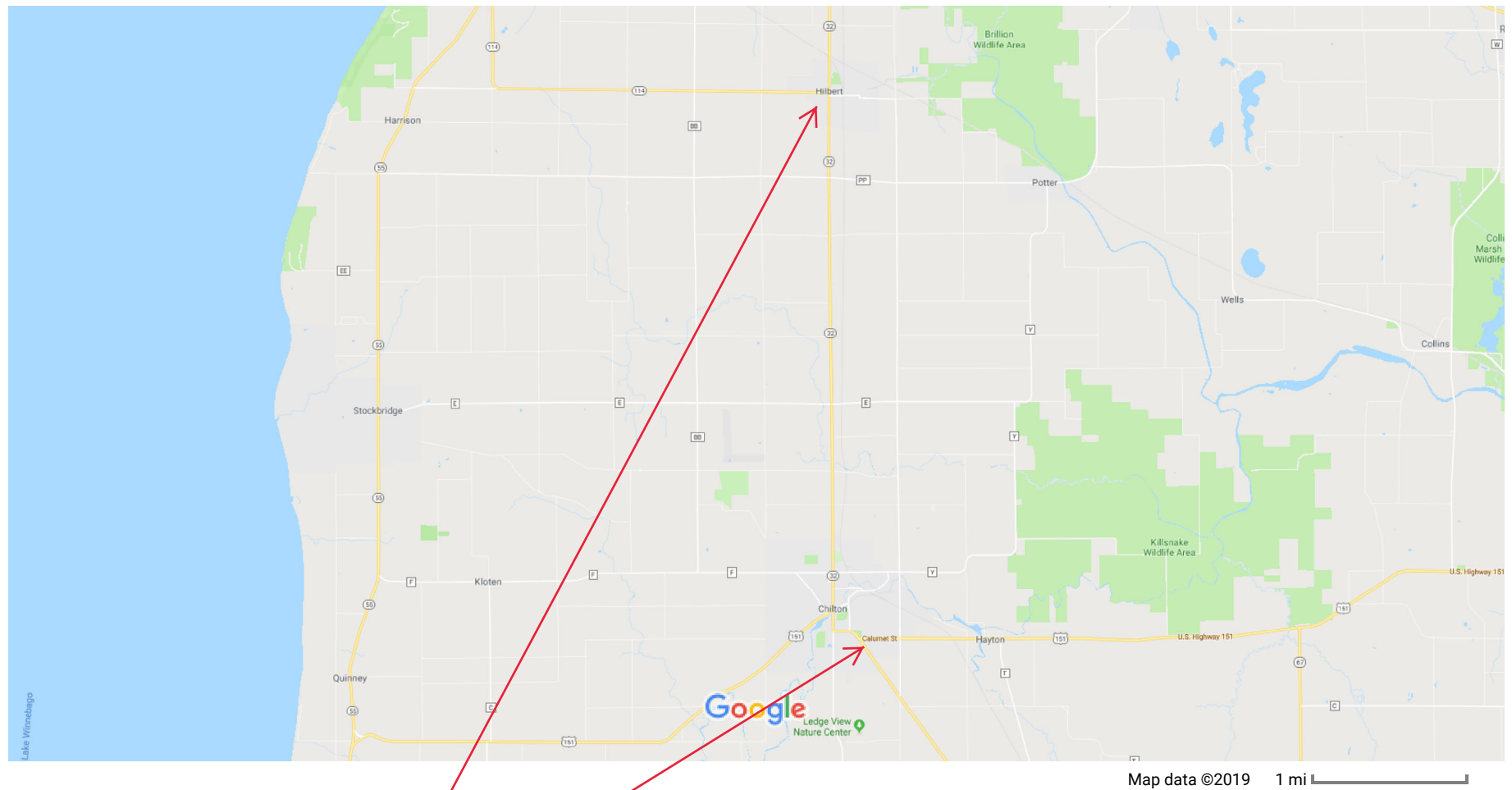
14. **NOTIFICATIONS / CONTACTS.** Notify Northeast Region permit coordinator/field inspector, by phone or email, three days prior to the start of construction. Notify Diggers' Hotline 800/242-8511 at least three working days prior to the start of any excavation. It is the obligation of the permittee to determine the location of, and avoid any damage to, the pre-existing lines and facilities of others.

15. **TREES.** Prevent the spread of oak wilt by treating all cut surfaces and abrasions sustained **between April 1 and September 30** by healthy oak trees and saplings with a thorough application of tree paint immediately upon discovering a wound. Between these dates, also paint the cut surfaces of the stumps of all healthy oak trees and saplings immediately after cutting, whether remaining in place or grubbed.

This permit approves the installation of facilities as shown on the diagram provided. If the above assigned position is not feasible, an alternate location of facilities shall be approved prior to installing the facilities by contacting the permit coordinator approving the permit. If the facility is later discovered to be at a location other than that designated by the permit you may be required to relocate the facility at your expense.

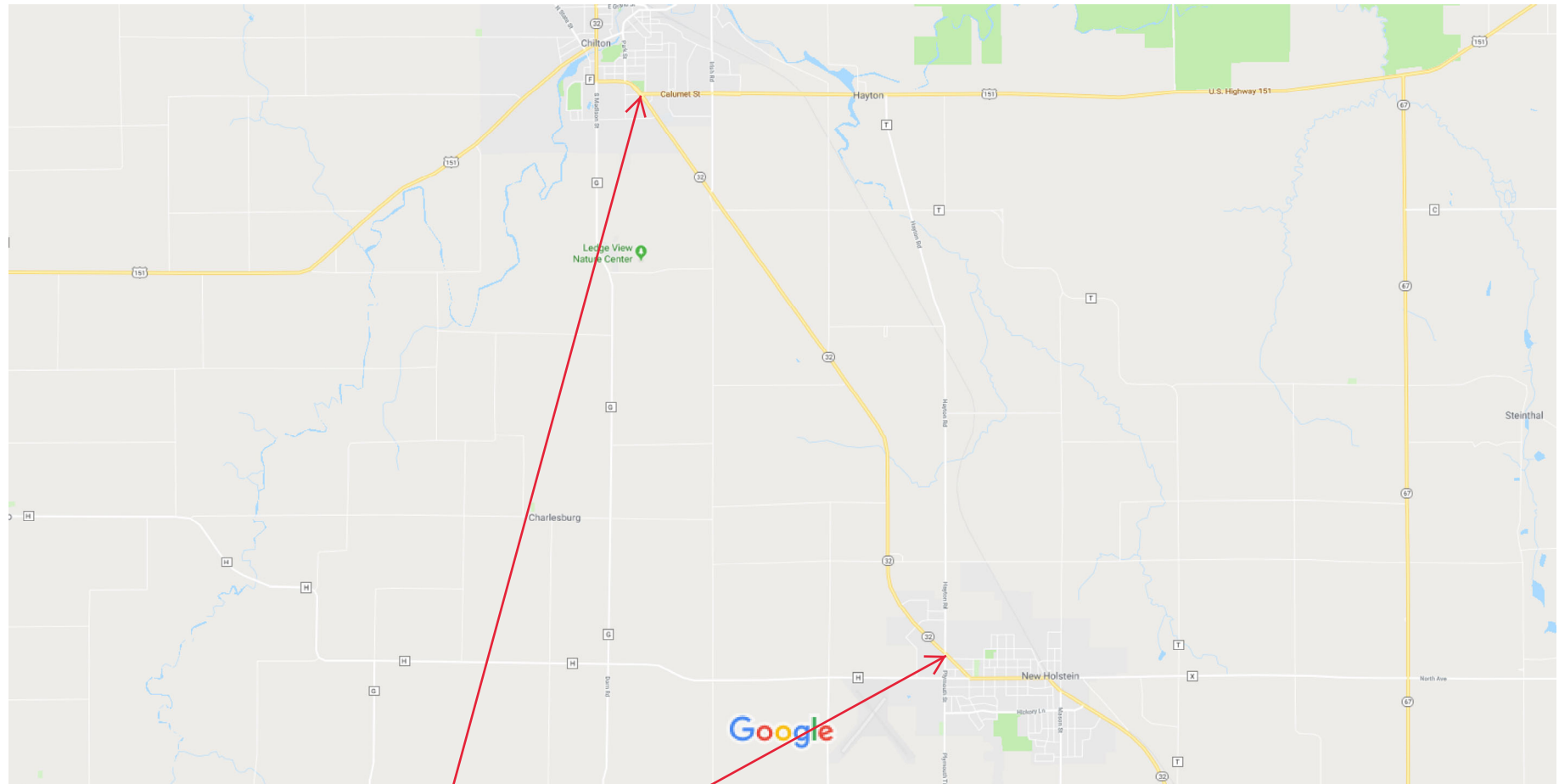
This permit is subject to the attached drawings, these supplemental provisions, and WisDOT's Utility Accommodation Policy. New supplemental provisions may be added, or the existing ones deleted or amended in the future as different issues arise during the installation, operation and maintenance of the permittee's facilities.

Google Maps



CLICK LINK TO VIEW THIS
AREA IN GOOGLE MAPS

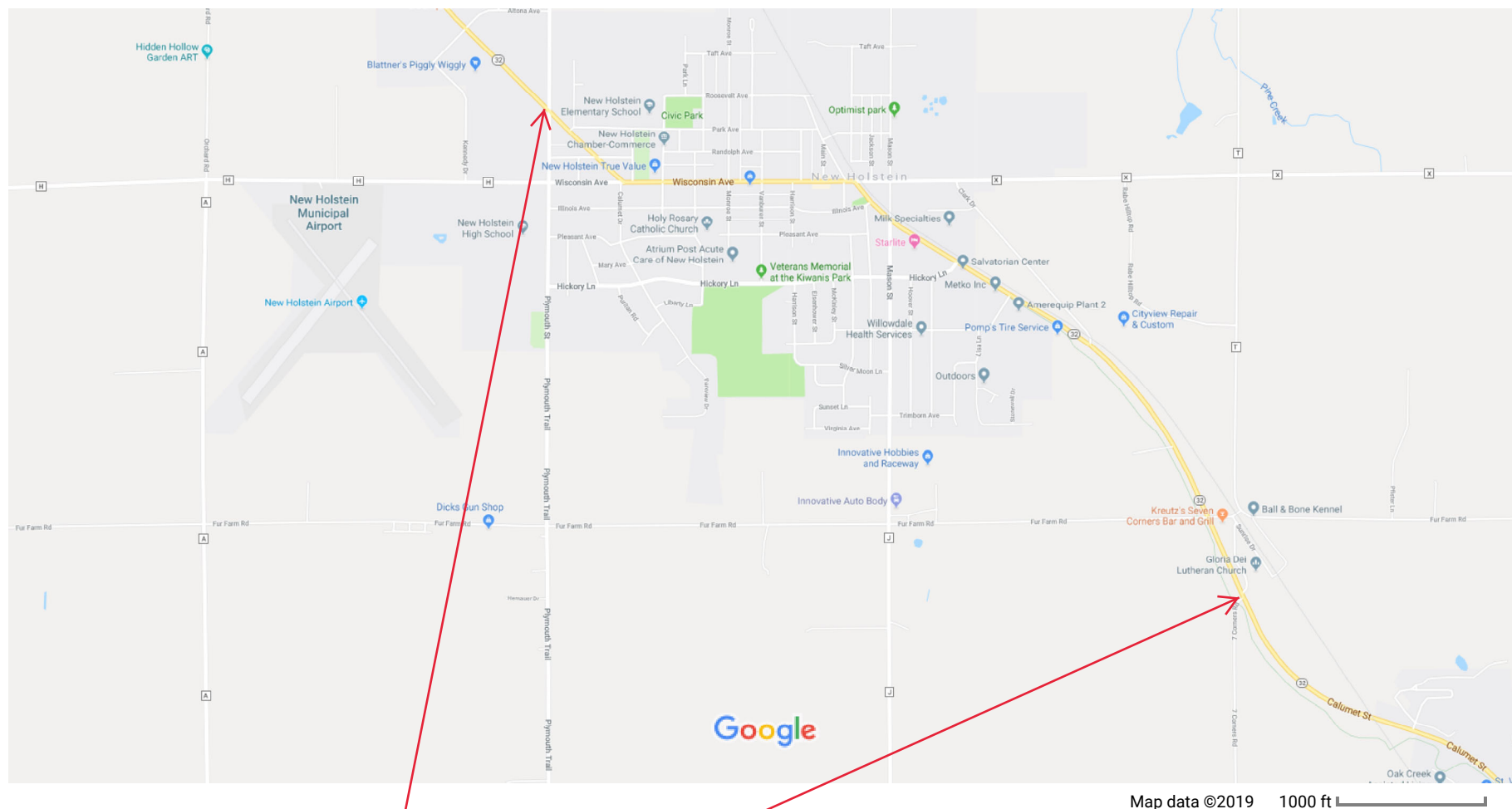
Google Maps



Map data ©2019 2000 ft

**CLICK LINK TO VIEW THIS
AREA IN GOOGLE MAPS**

Google Maps

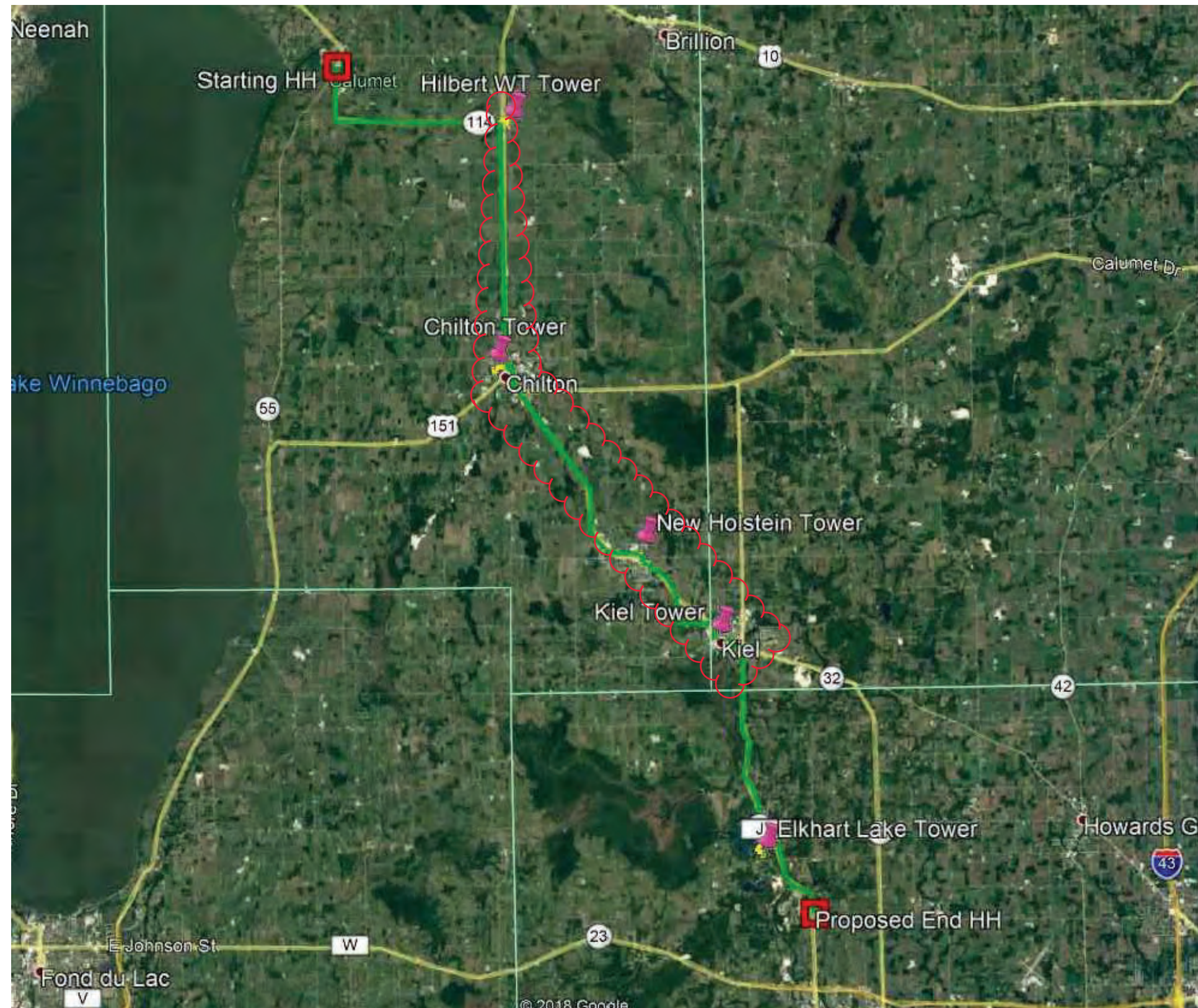


Map data ©2019 1000 ft

**CLICK LINK TO VIEW THIS
AREA IN GOOGLE MAPS**<https://www.google.com/maps/@43.9406963,-88.0897551,15z>

8/14/2019

NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
AREA MAP

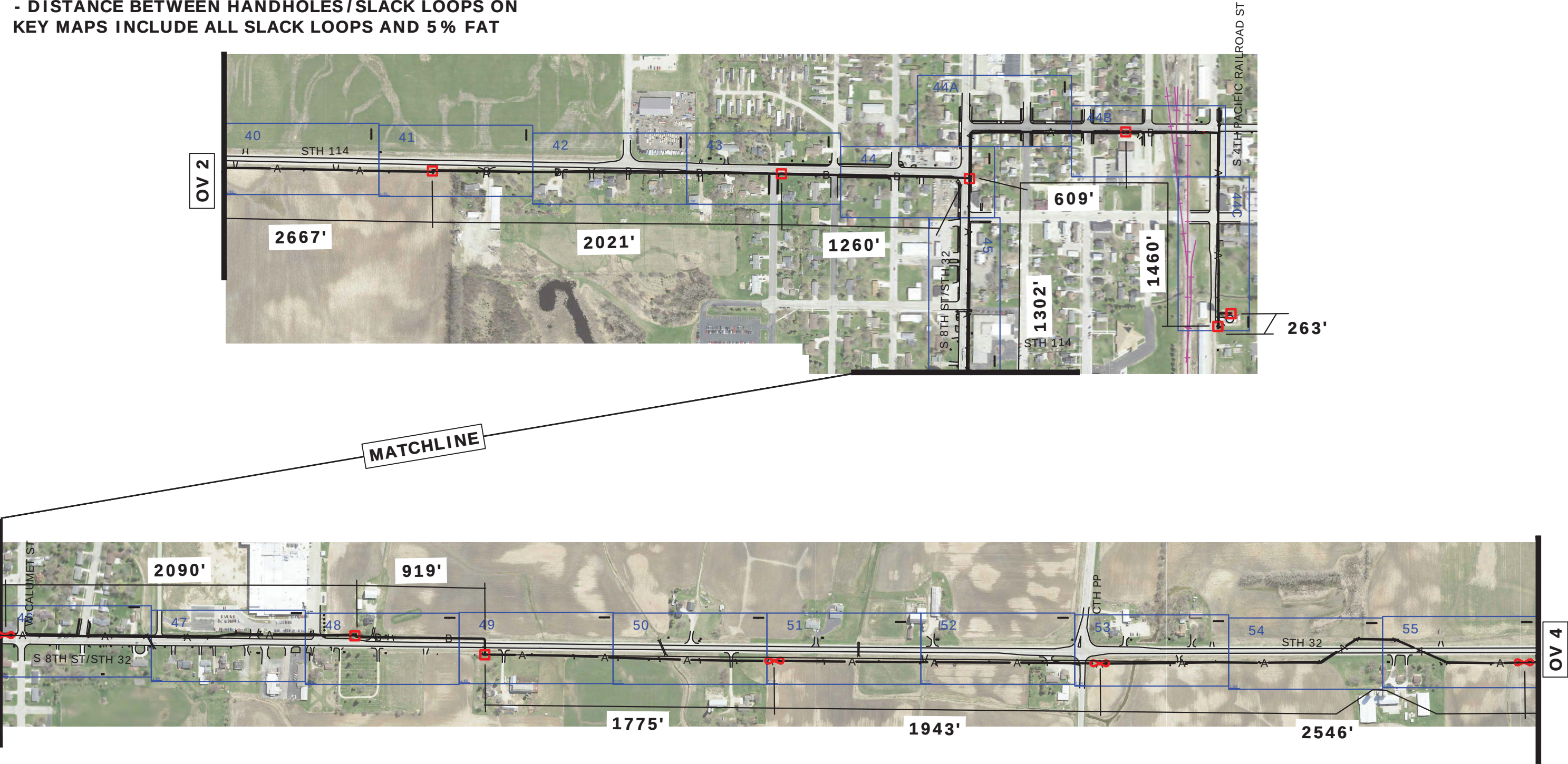


SYMBOL LEGEND

-  - PROPOSED HANDHOLE
-  - BURIED CABLE ROUTE
-  - AERIAL CABLE ROUTE
-  - PROPOSED AERIAL SLACK LOOP

OVERVIEW 3 OF 14

NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT

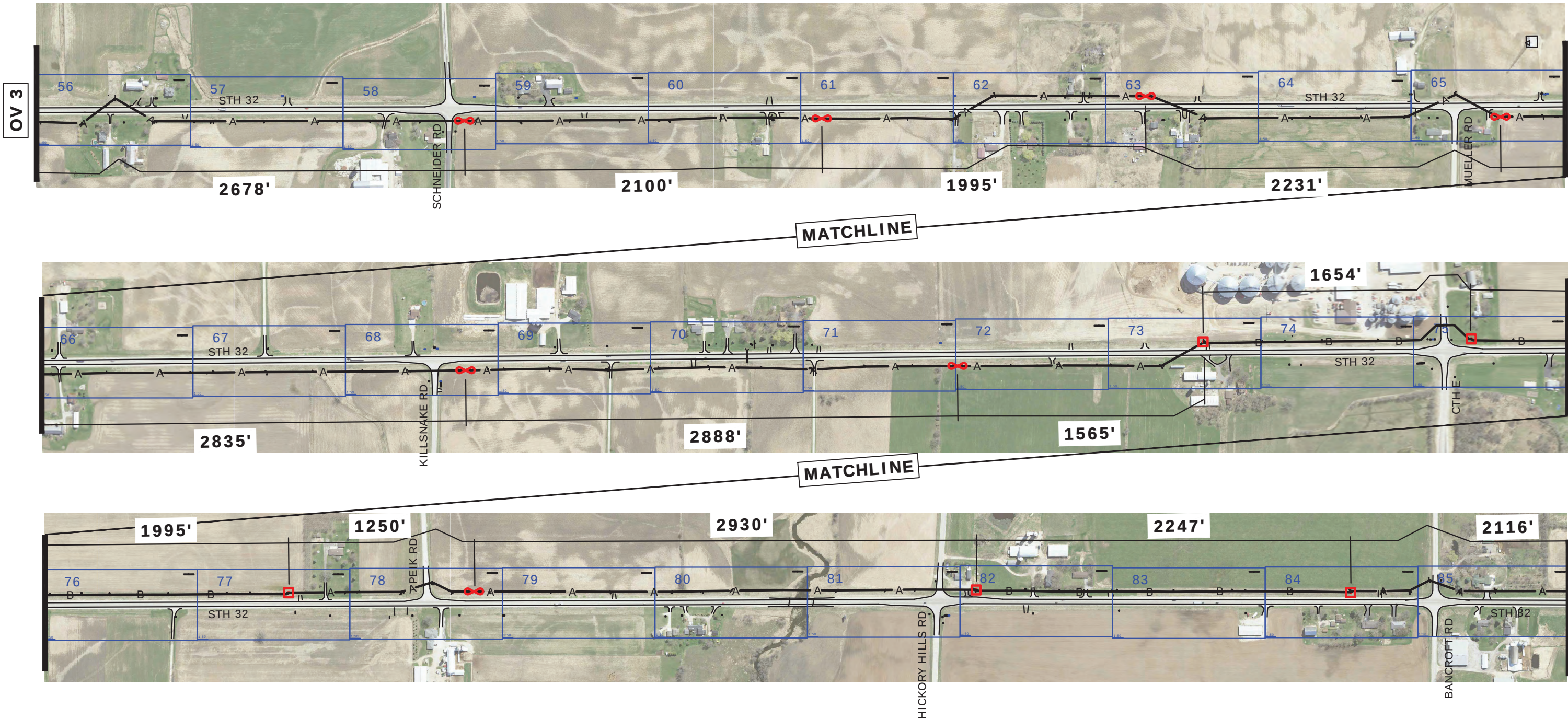


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OVERVIEW 4 OF 14

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KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT

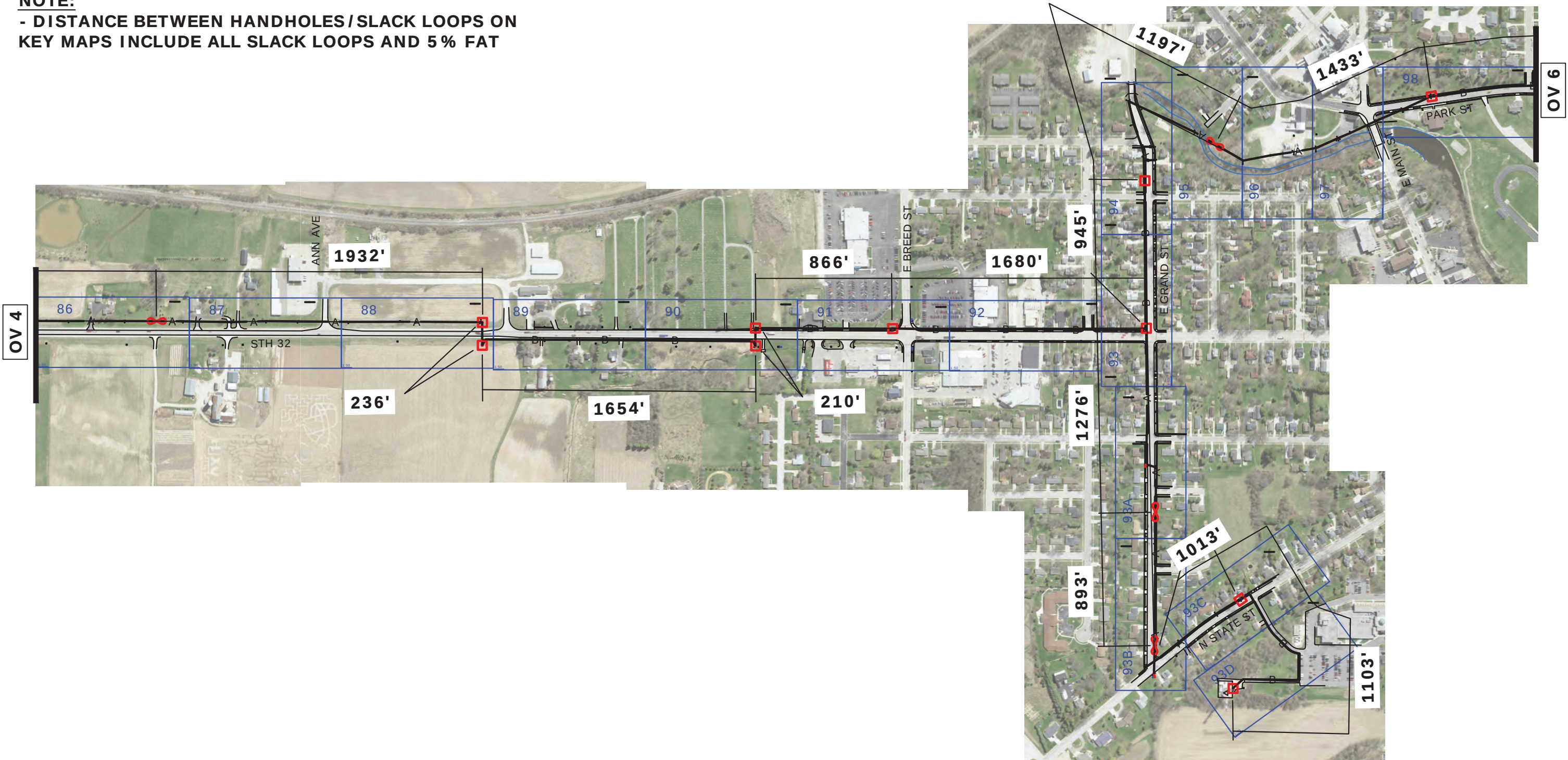


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OVERVIEW 5 OF 14

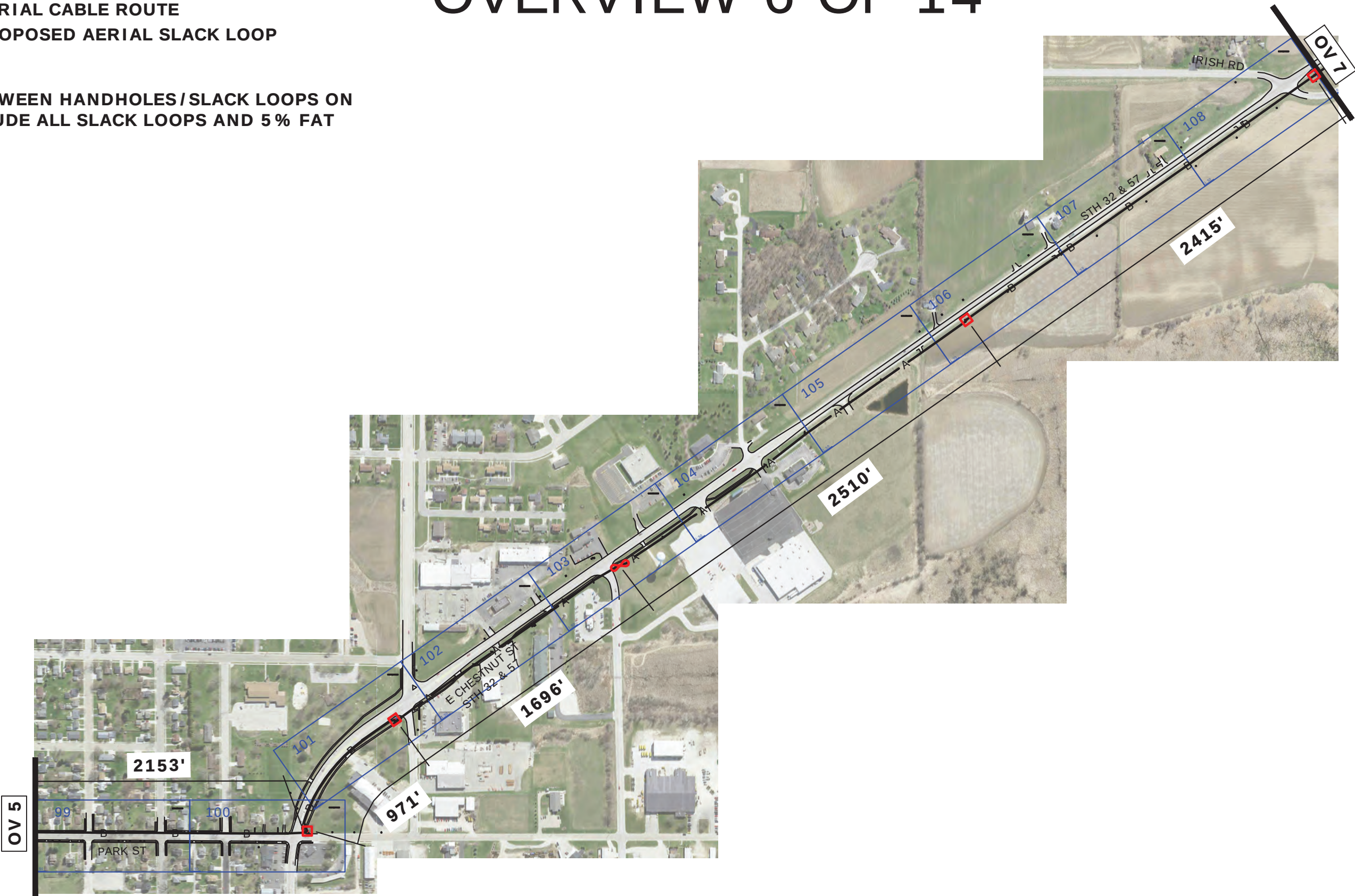


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OVERVIEW 6 OF 14

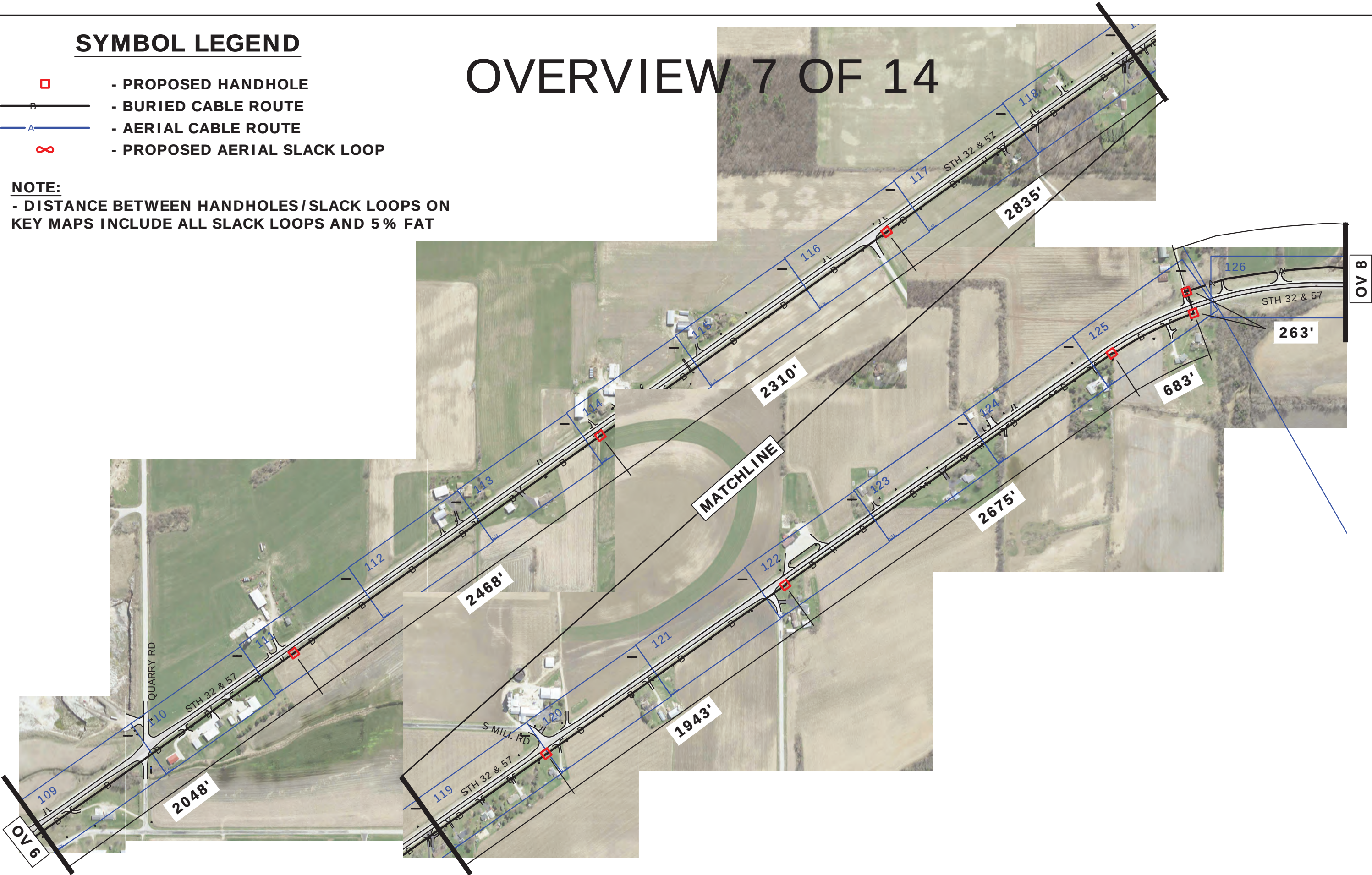


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NOTE:
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KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT

OVERVIEW 7 OF 14

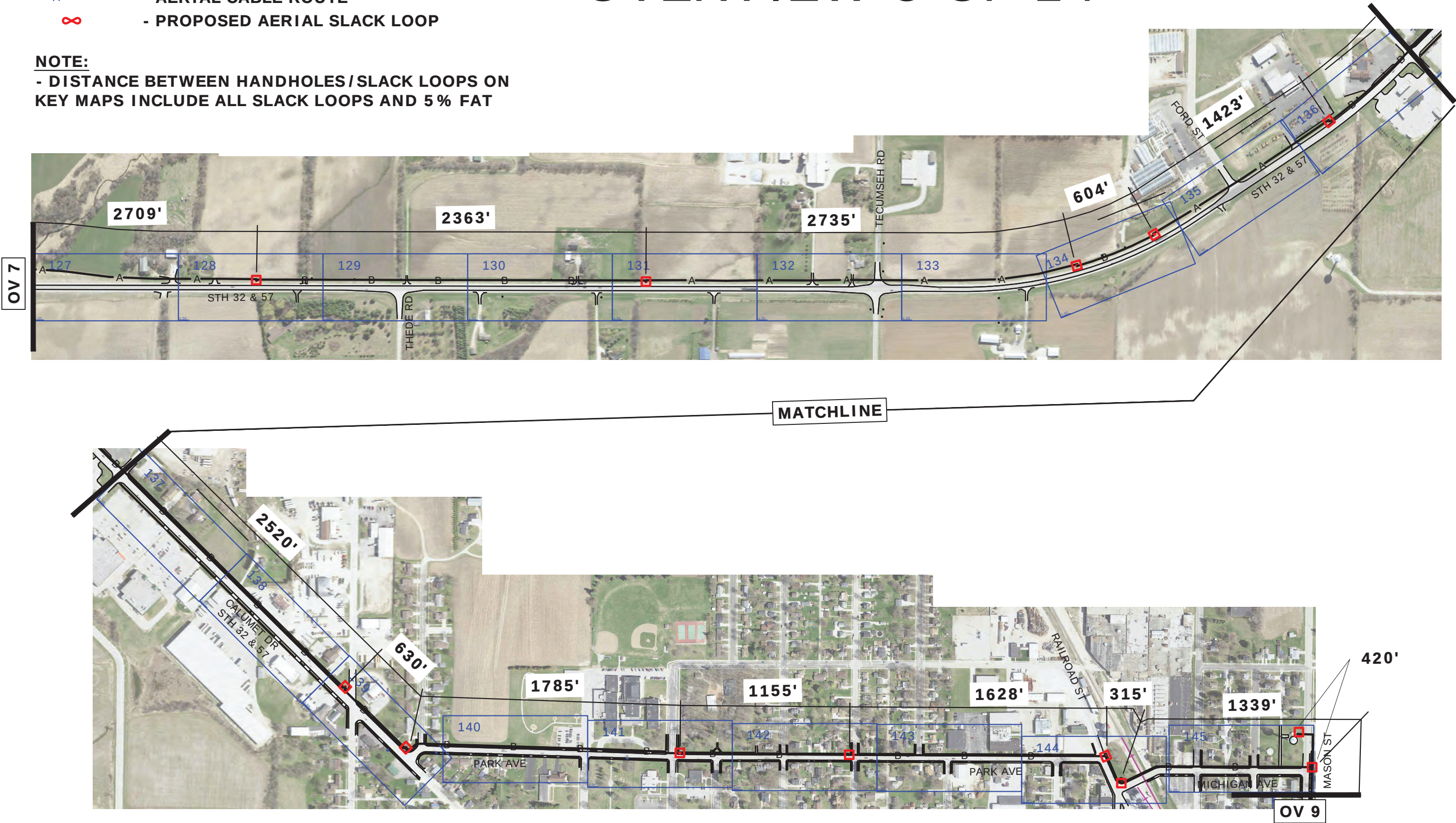


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NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT

OVERVIEW 8 OF 14

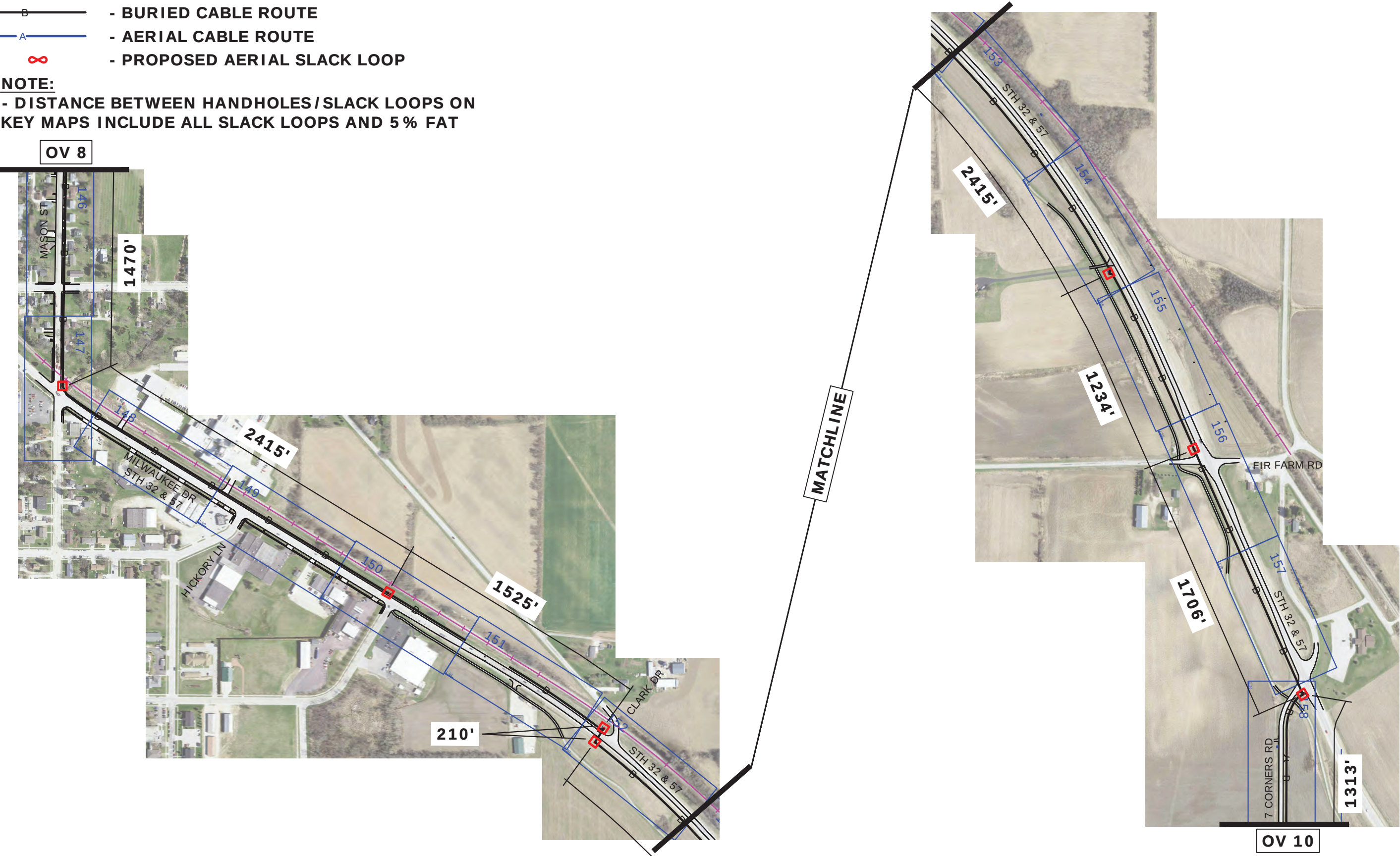


SYMBOL LEGEND

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NOTE:
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KEY MAPS INCLUDE ALL SLACK LOOPS AND 5 % FAT

OVERVIEW 9 OF 14

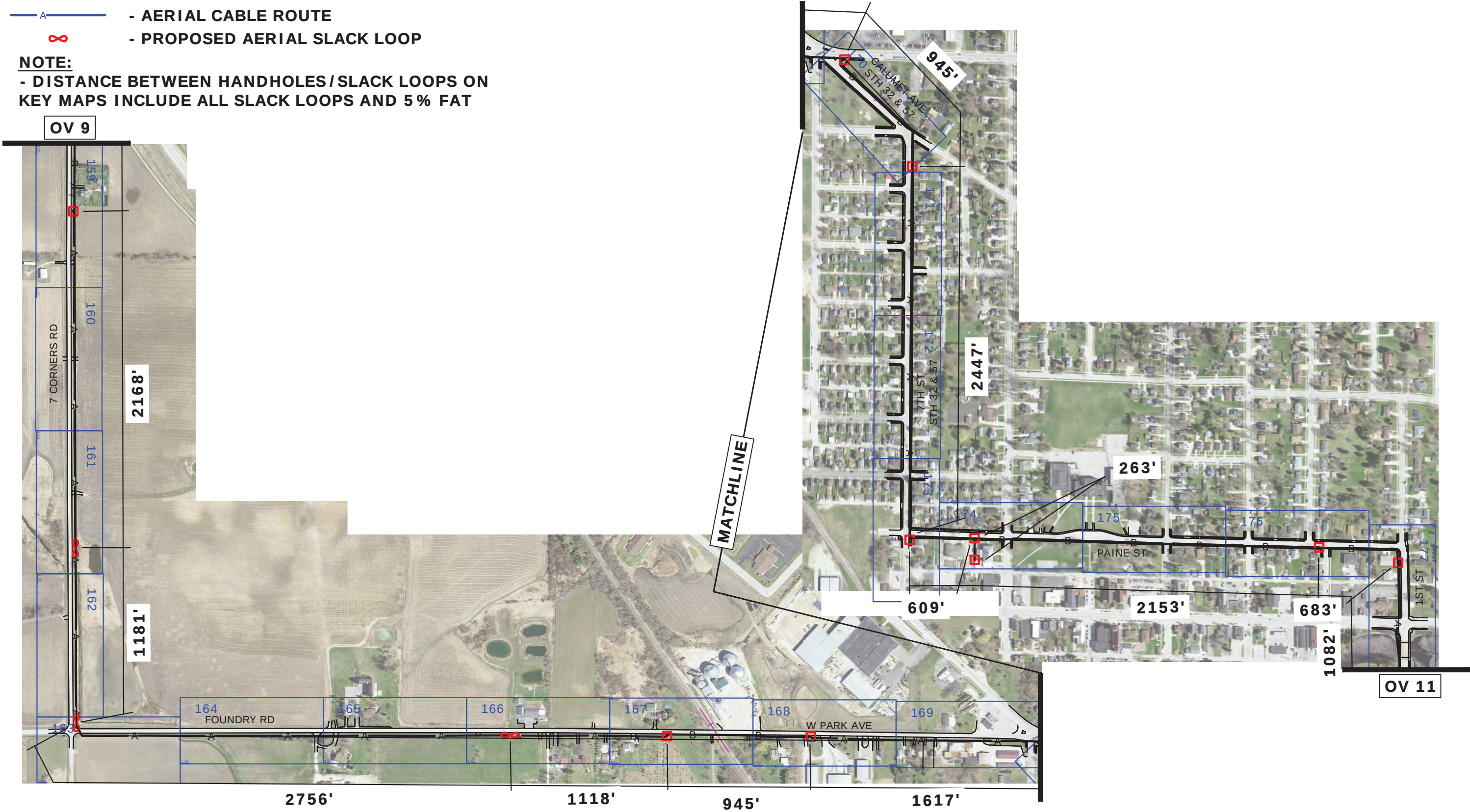


SYMBOL LEGEND

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-  - AERIAL CABLE ROUTE
-  - PROPOSED AERIAL SLACK LOOP

NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON KEY MAPS INCLUDE ALL SLACK LOOPS AND 5 % FAT

OVERVIEW 10 OF 14

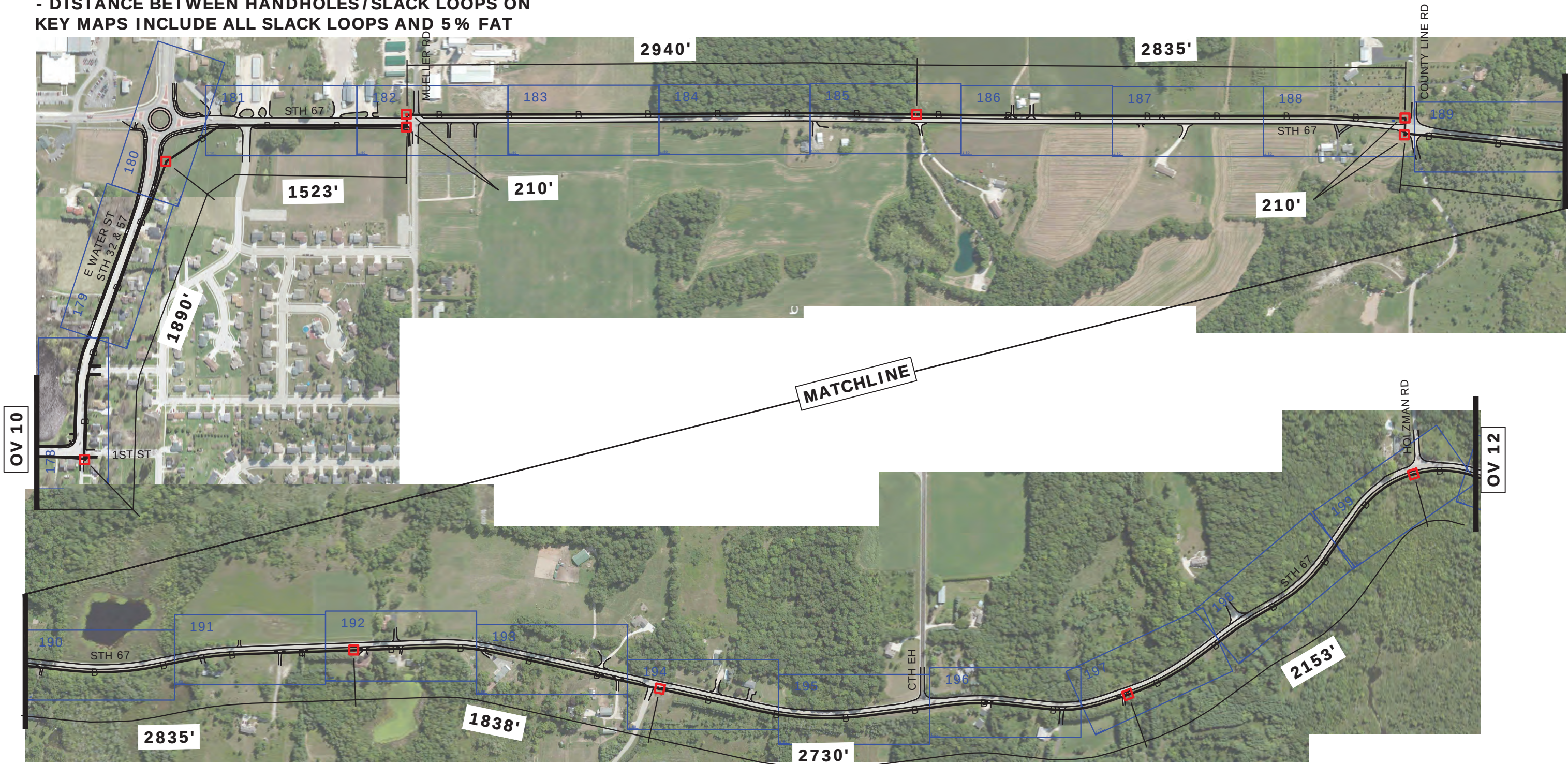


SYMBOL LEGEND

-  - PROPOSED HANDHOLE
-  - BURIED CABLE ROUTE
-  - AERIAL CABLE ROUTE
-  - PROPOSED AERIAL SLACK LOOP

OVERVIEW 11 OF 14

NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
KEY MAPS INCLUDE ALL SLACK LOOPS AND 5 % FAT



GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION PERMITS OR NOTIFICATIONS HAVE BEEN COMPLETED OR APPLIED FOR BY MI-TECH SERVICES.
2.

CONTACTS:

MI-TECH SERVICES

NSIGHT TELESERVICES

PAUL CARRICK

RICK VINCENT

(920) 609-4501

(920) 617-7316
3. ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY IRONS DURING CONSTRUCTION AND RESET BY A LICENSED LAND SURVEYOR IF DISTURBED.
5. ROUTE DEVIATIONS SHALL NOT BE ALLOWED WITHOUT CONCURRENCE OF DESIGNER.
6. BRUSHING AND TREE REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR WITH THE FOLLOWING CONDITIONS:
-ALL BRUSH AND TREES ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
7. ALL ROCKS TURNED UP DURING PLACEMENT MUST BE REMOVED BY CONTRACTOR OR PLACED BACK IN TRENCH DURING RESTORATION SO AS NOT TO CAUSE A HAZARD FOR VEHICLE OR FOOT TRAVEL.
8. ALL ABRUPT CHANGES IN GRADE SUCH AS BERMS AND DITCHES SHALL BE GRADUALLY SLOPED AND RESTORED TO THEIR NATURAL STATE.
9. UNLESS OTHERWISE SPECIFIED BY THE DESIGNER, THE CABLE PLACING DEPTHS ARE:

FIBER OPTIC CABLE
MINIMUM DEPTH IN SOIL 36"
MINIMUM DEPTH AT ROAD CROSSING 60" (IN RURAL AREAS)
10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ROAD GRAVEL IN ALL HAND HOLES PLACED OR ENTERED.
11. A MINIMUM 6" BED OF ROAD GRAVEL SHOULD BE PLACED PRIOR TO SETTING HAND HOLES.
12. ACORN TYPE HEX HEAD THREADED GROUND ROD CLAMPS SHOULD BE USED TO FASTEN GROUND WIRE TO GROUND RODS IN HAND HOLES WITHOUT RHINO TEST STATIONS.
13. ALL CABLE, DUCT & TRACER WIRE SHOULD BE TAGGED BY CONSTRUCTION CONTRACTOR.
14. BORES OVER 500 FT. MAY BE BROKEN UP INTO SHORTER BORES FOR CONTRACTORS CONVENIENCE, WITH THE EXCEPTION TO PLACING BORE PITS IN WETLANDS WHICH WILL HAVE TO BE APPROVED BY DESIGNER.
15. PROPOSED WETLAND BORE PITS SHOULD BE RECEIVING PITS ONLY, PREFERABLY COUPLING OF DUCT BE COMPLETED BY HAND-DIGGING ONLY. DO NOT SET UP THE BORE RIG IN WETLANDS, WITHOUT PRIOR AUTHORIZATION.
16. ALL AERIAL CONSTRUCTION TO MEET NESC AND RUS SPECIFICATIONS.
17. THE CONSTRUCTION CONTRACTOR SHALL SUPPLY DUCT PLUGS AND PLUG ALL DUCT IN HAND HOLES AND AT RISERS.
18. PROPOSED PLACEMENT OF FACILITIES IS BASED ON DESIGN AND PLANNING LOCATES OBTAINED THROUGH THE STATE ONE CALL SYSTEM. ACTUAL FACILITY PLACEMENT IS SUBJECT TO CHANGE BASED ON FIELD LOCATES ENCOUNTERED DURING CONSTRUCTION.
19. PERMITS (PERMIT BOOK WILL BE PROVIDED PRIOR TO CONSTRUCTION). THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND FOLLOWING ANY AND ALL STIPULATIONS SET FORTH BY THE PERMIT ENTITIES. DOOR COUNTY PERMIT IS REQUIRED FOR THIS PROJECT. PERMITS REQUIRED: YES FOR OUTAGAMIE COUNTY AND VILLAGE OF KIMBERLY



450 Security Blvd. • Green Bay, WI • 54313 • Phone 920-617-7000 • Fax 920-617-7319
P.O. Box 19079 • Green Bay, WI 54307-9079 www.n sight.com

NSIGHT PROJECT:

NL19-17 Calumet County Fiber Build		
MI-TECH DESIGNER:	PAUL CARRICK	
PHONE NUMBER:	920-609-4501	
EMAIL ADDRESS:	pcarrick@mi-tech.us	
PHYSICAL ADDRESS:	1700 INDUSTRIAL DR	

	DATE
NSIGHT PO RECEIVED:	4/12/2019
REQUESTED COMPLETION:	

	DATE:	MI-TECH SIGNATURE
COMPLETION OF BASE MAPS:	11/13/2018	Andy Lee
COMPLETION OF MAP FIELDING:	6/18/2019	Paul Carrick
COMPLETION OF PLACING PLANT:	6/16/2019	Paul Carrick
COMPLETION OF POLE FIELD WORK:	2/26/2019	Paul Carrick
COMPLETION OF POLE OFFICE WORK:	7/5/2019	Paul Carrick
COMPLETION OF MAPPING QC:	7/8/2019	Paul Carrick

	DATE:	MI-TECH SIGNATURE
PRINTS SENT TO NSIGHT FOR REVIEW:	7/8/2019	Paul Carrick
POLE WORK SENT IN FOR PE REVIEW:		

	DATE:	NSIGHT SIGNATURE
COMPLETED PE REVIEW		
COMPLETED JOB REVIEW		
FINAL SIGN OFF		

TYPICAL AERIAL POLE BOX DETAILS

EXISTING POWER POLE

(HEIGHTS IN RED) =
ATTACHMENT HEIGHTS
AFTER "MAKE READY"
RECOMMENDATIONS

POLE# 3128 19L22	POLE NUMBER
P. 28'6" NEU	POWER = NEUTRAL ATTACHMENT
P. 27'10" TRANS	POWER = BOTTOM OF TRANSFORMER CAN
P. 26'8" STL	POWER = BOTTOM OF STREET LIGHT BRACKET
P. 26'2" STL DRIP	POWER = STREET LIGHT DRIP LOOP
P. 25'8" SEC	POWER = SECONDARY ATTACHMENT
P. 25'6" SEC DRIP	POWER = SECONDARY DRIP LOOP
P. 24'10" (25'4") RISER	POWER = TOP OF RISER GUARD
CATV. 22'6" (22'0")	CABLE TV ATTACHMENT HEIGHT
TELE. 20'11"	TELEPHONE ATTACHMENT HEIGHT
FIBER. 19'11"	FOREIGN FIBER ATTACHMENT HEIGHT
N. 18'11"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT
PLACE ANCHOR L=6'	NSIGHT/NETLEC = PROPOSED ANCHOR LEAD PLACEMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET
ATTACH TO THE EXISTING CATV ANCHOR (NORTH) L=13' 2 OPEN EYES	NSIGHT/NETLEC = PROPOSED EXISTING ANCHOR LEAD ATTACHMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET *(MULTIPLE ANCHORS WILL REFERENCE THE COMPASS HEADING)
"MAKE READY"	POLE REQUIRES MAKE READY FOR ATTACHMENT
RAISE RISER 6"	MAKE READY RECOMMENDATION
LOWER CATV 6"	MAKE READY RECOMMENDATION

EXISTING POWER POLE

MIDSPAN# 51	MIDSPAN NUMBER
P. 21'1" #6 DUPLEX	POWER = CONDUCTOR HEIGHT
P. 20'2" P 32/ICE OR P 194	POWER = WORST CASE SCENARIO SAG WITH EITHER 32° W/ .5" ICE OR AT 194°
CATV. 19'3"	CABLE TV CABLE/STRAND HEIGHT
TELE. 18'11" N/S	TELEPHONE NAKED STRAND HEIGHT
N. 17'6"	NSIGHT/NETLEC = PROPOSED INITIAL MIDSPAN HEIGHT
N/I. 16'7"	NSIGHT/NETLEC = PROPOSED MIDSPAN HEIGHT WITH HEAVY ICE STORM LOADING APPLIED
T. 502 LB	NSIGHT/NETLEC = PROPOSED INITIAL MIDSPAN TENSION
T/L 1.641	NSIGHT/NETLEC = PROPOSED MIDSPAN TRANSVERSE LOAD
EXISTING VIOLATION	EXISTING VIOLATION FLAG = UTILITIES IN VIOLATION WILL BE HIGHLIGHTED, BUT MAKE READY MIGHT NOT BE REQUIRED FOR THE PROPOSED CABLE. *(VIOLATION WILL BE TAKEN INTO CONSIDERATION DURING THE DESIGN AND THE APPROPRIATE CLEARANCES WILL BE LEFT FOR ADJUSTMENT)

RECOMMENDED POLE CHANGE OUTS

POLE# 3128 19L23 P. 30'2" (34'2") NEU P. 27'0" (31'0") SEC P. 26'10" (30'10") TRANS P. 26'5" (30'5") ANCHOR TELE. 22'5" (26'7") N. 25'7" 'MAKE READY' CHANGE OUT POLE	MIDSPAN# 52 P. 20'7" (22'7") #2 ACSR P/I. 19'3" (21'3") TELE. 16'8" (18'9") N. 17'9" N/I. 17'3" T. 285 LB T/L. 1.641 'MAKE READY' CHANGE OUT POLE #3127 19L23 FOR MIDSPAN CLEARANCE
--	---

NSIGHT/NETLEC NEW POLE PLACEMENT

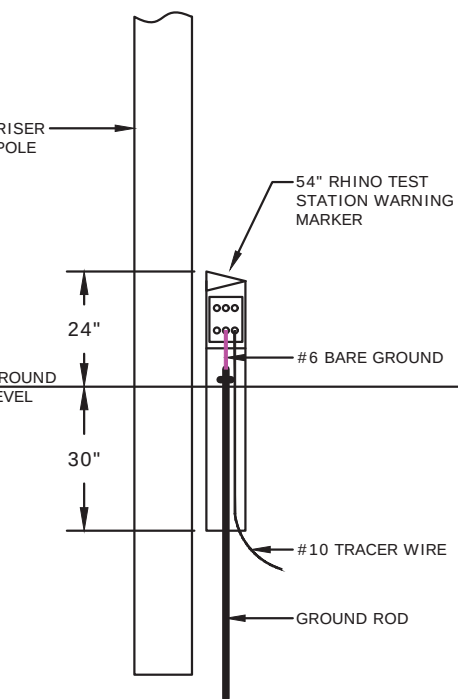
NEW POLE# 5	NSIGHT/NETLEC = NEW POLE NUMBER
35' CLASS 5	NSIGHT/NETLEC = NEW POLE HEIGHT AND CLASS
POLE TOP. 29'6"	NSIGHT/NETLEC = APPROXIMATE NEW POLE HEIGHT TO TOP AFTER PLACEMENT
N. 27'6"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT

EXISTING FOREIGN COMMUNICATION POLE

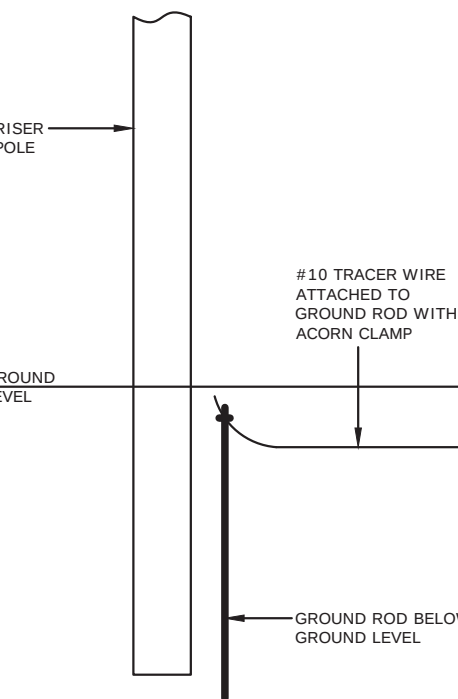
POLE# 1	POLE NUMBER
POLE TOP. 25'0"	POLE HEIGHT TO TOP
TELE. 23'11"	TELEPHONE ATTACHMENT HEIGHT
N. 22'11"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT

*IF ALLOWABLE CLEARANCES ARE NOT ATTAINABLE
BY "MAKE READY" ADJUSTMENTS, A POLE CHANGE OUT
WILL BE RECOMMENDED. THIS NOTE COULD BE FOUND AT
THE POLE OR MIDSPAN AND WILL REFERENCE THE POLE TO
BE REPLACED. A RECOMMENDATION OF THE NEW
ATTACHMENT HEIGHTS WILL BE PROVIDED ON THE PRINTS
IN "RED" AND THE PROPOSED STRUCTURE SIZE WILL BE
PROVIDED IN A SEPARATE MAKE READY DOCUMENT.

TYPICAL GROUNDING OF TRACER WIRE AT RISER POLE WITH RHINO TEST STATION

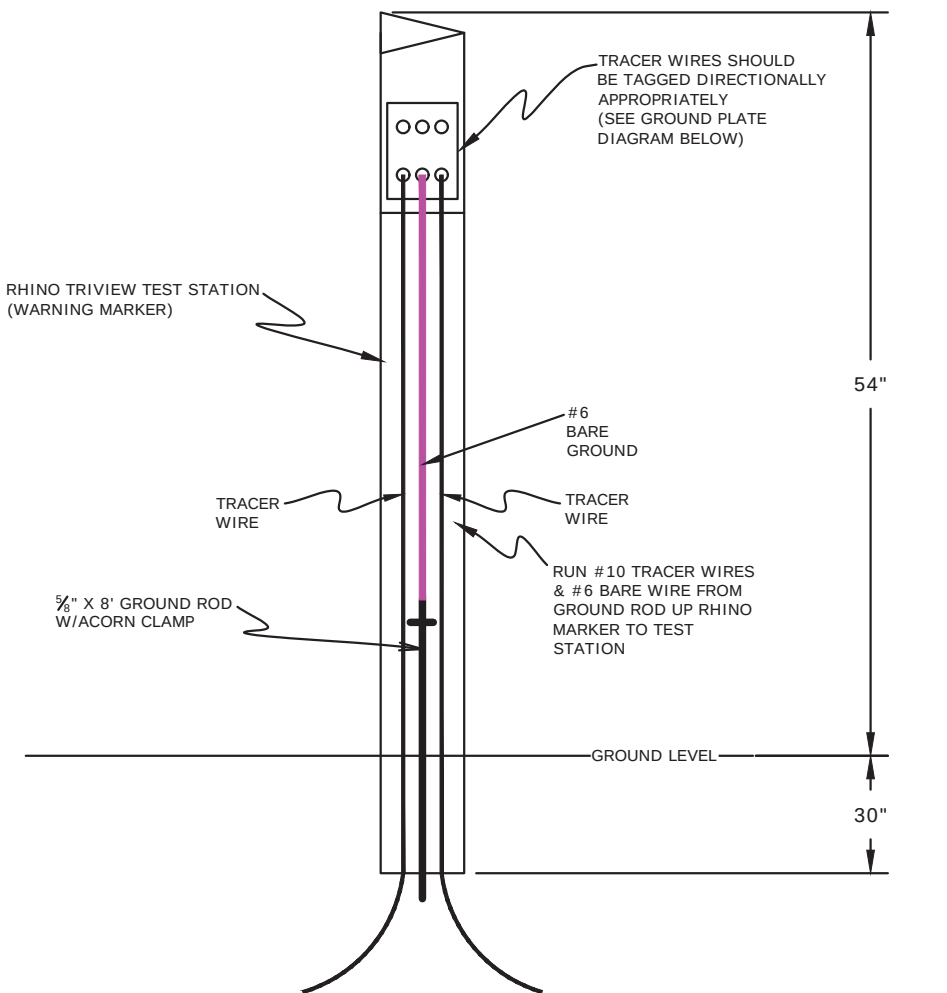


TYPICAL GROUNDING OF TRACER WIRE AT RISER POLE WITHOUT A RHINO TEST STATION

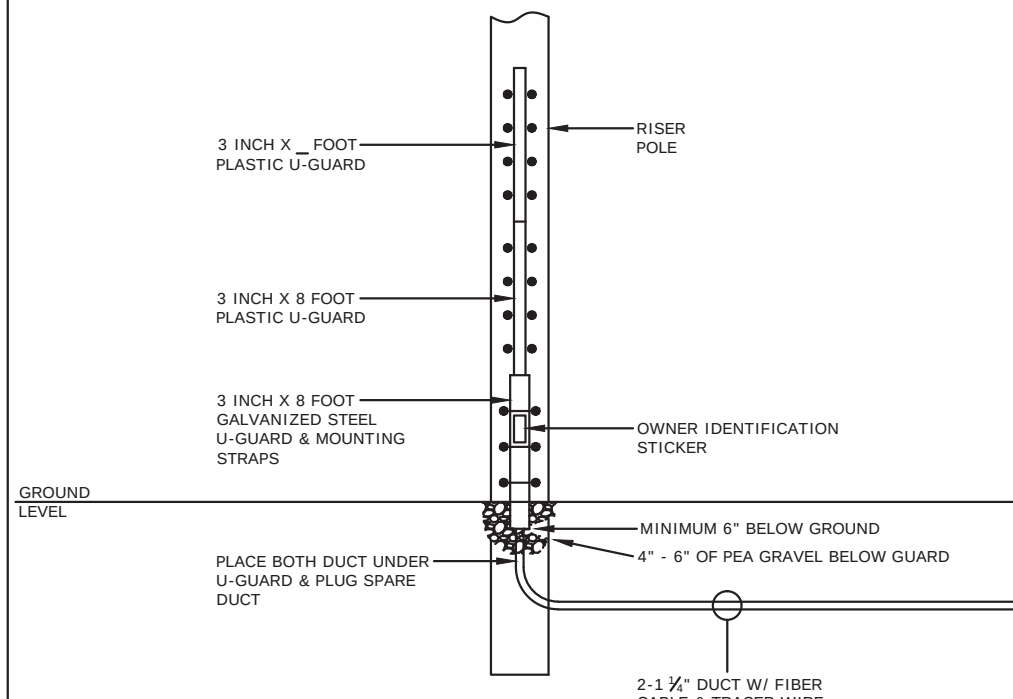


NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

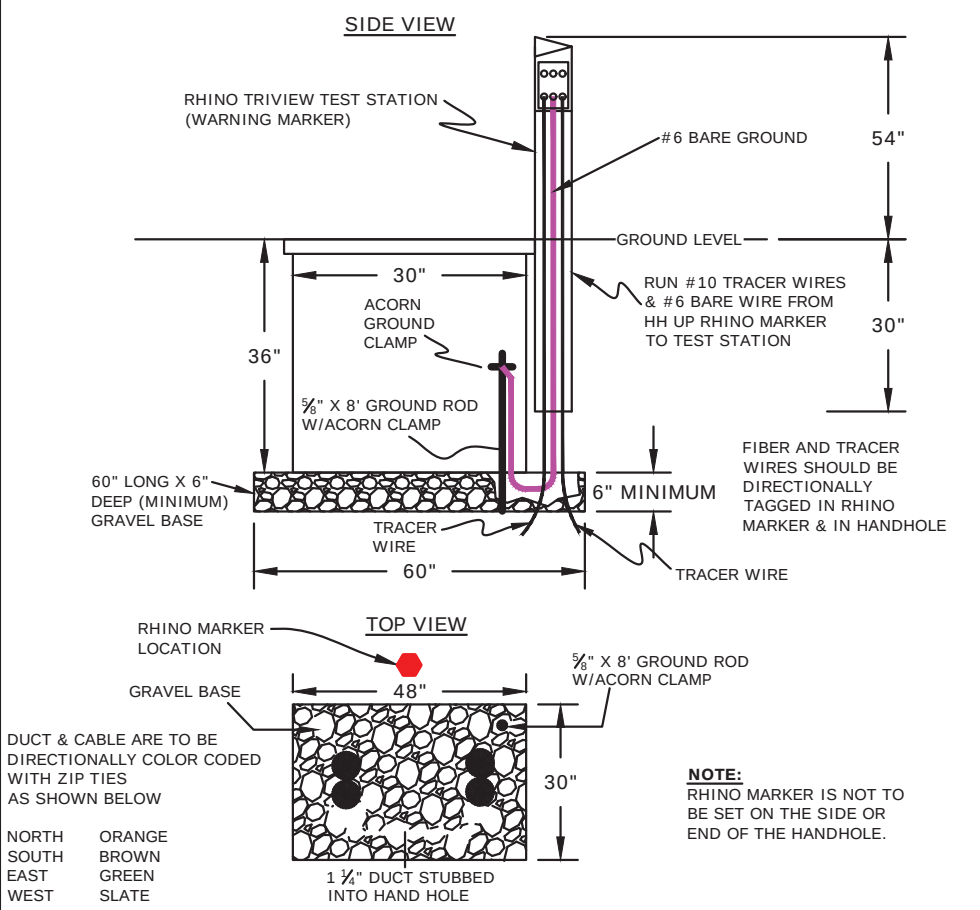
TYPICAL RHINO TEST STATION INSTALLATION (WITHOUT HANDHOLE)
SIDE VIEW



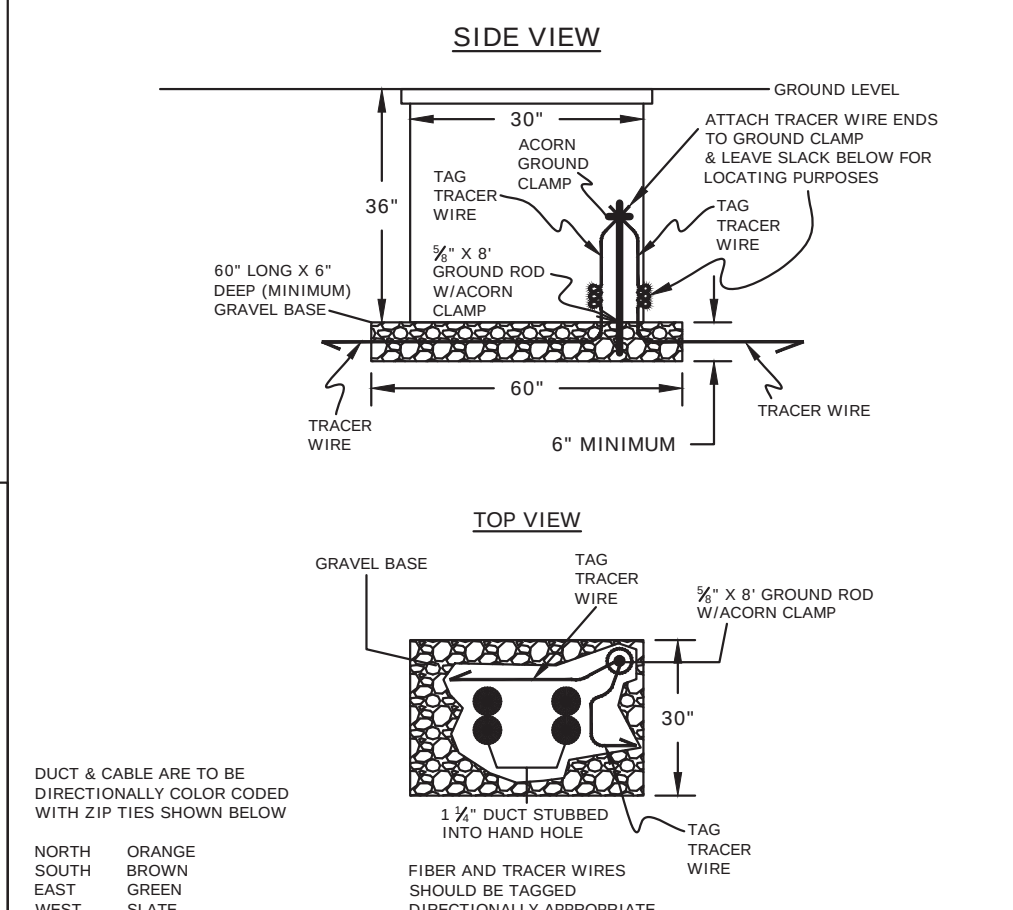
TYPICAL RISER GUARD INSTALLATION



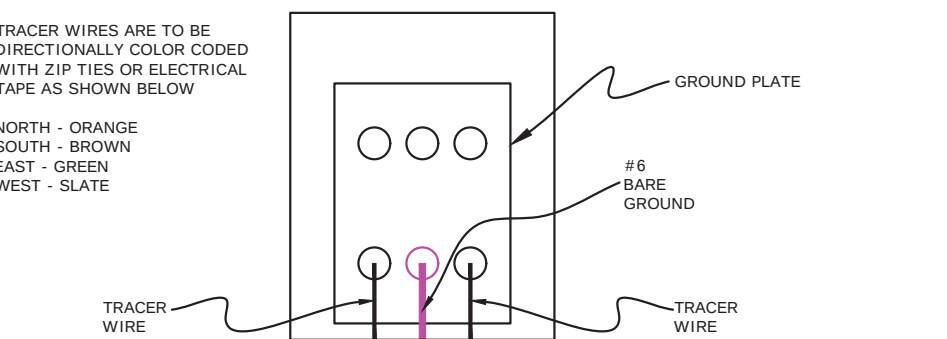
TYPICAL HAND HOLE INSTALLATION (WITH RHINO TEST STATION)
QUAZITE HAND HOLE AND COVER 30" X 48" X 36"



TYPICAL HAND HOLE INSTALLATION (WITHOUT RHINO TEST STATION)
QUAZITE HAND HOLE AND COVER 30" X 48" X 36"



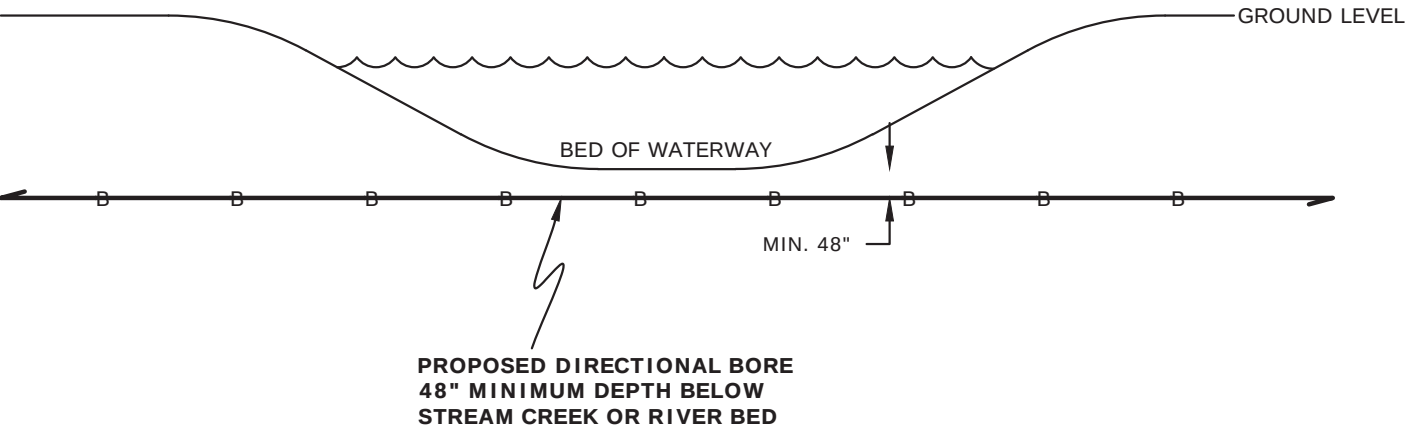
TYPICAL RHINO TEST STATION (GROUND PLATE DETAIL)



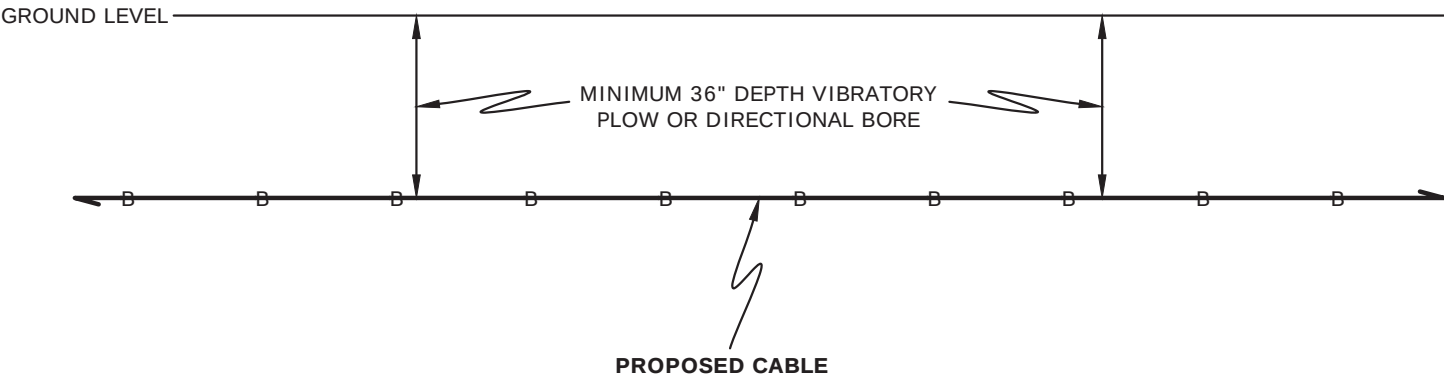
NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

TYPICAL RIVER/STREAM/CREEK CROSSING

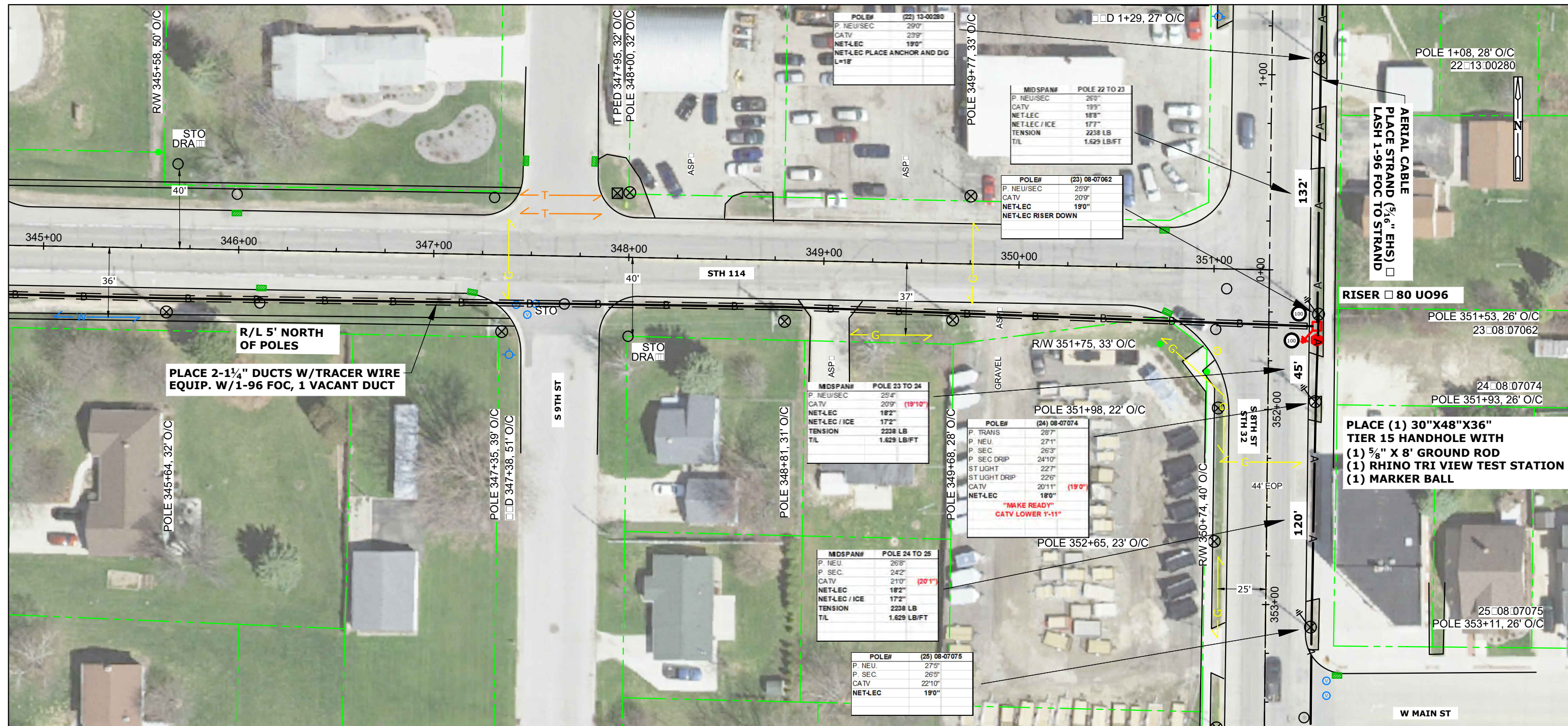
TYPICAL WETLAND CROSSING



***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**

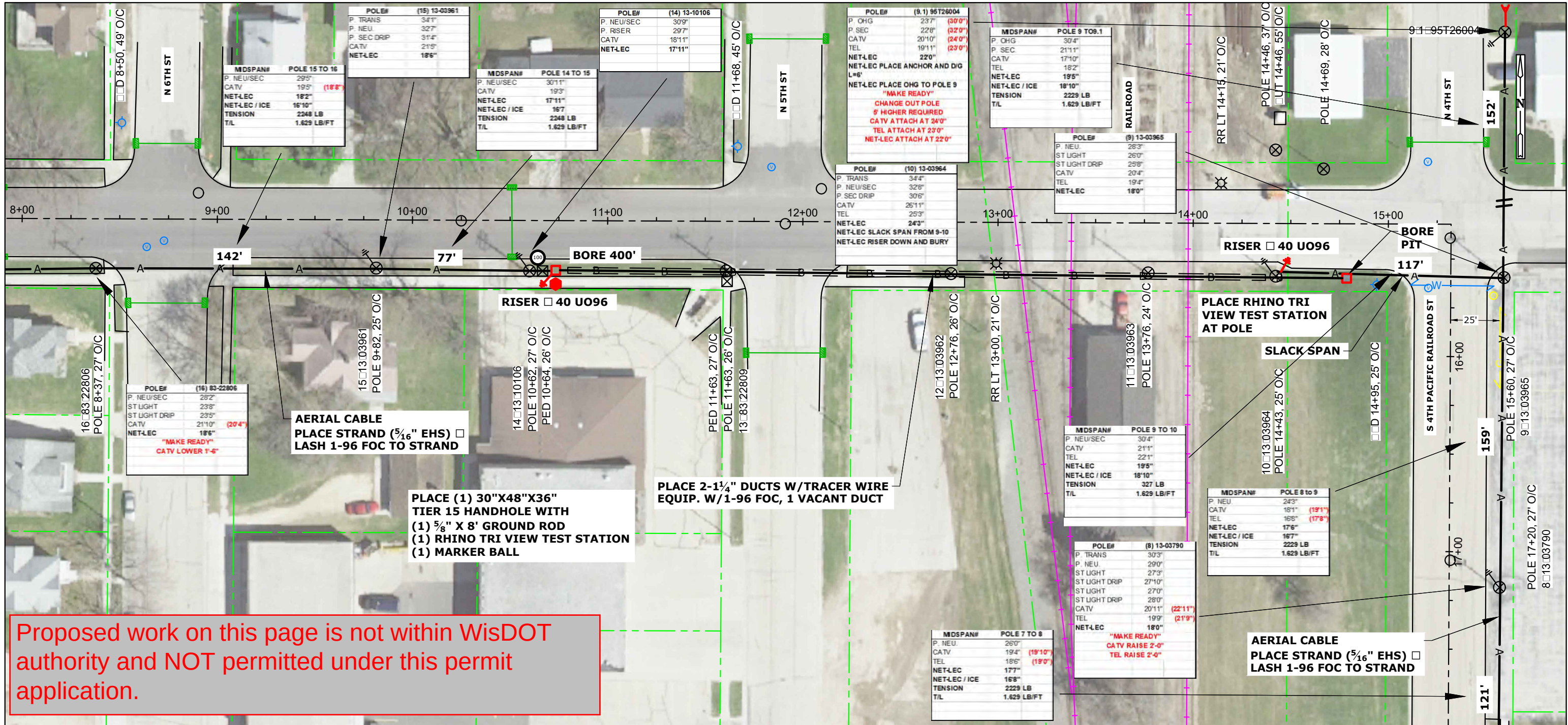


***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30x48x36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5"EHS)	PE 1-3 (5"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	351+50	1	1	1	1000		1000				2																						SHEET 44 OF 239				
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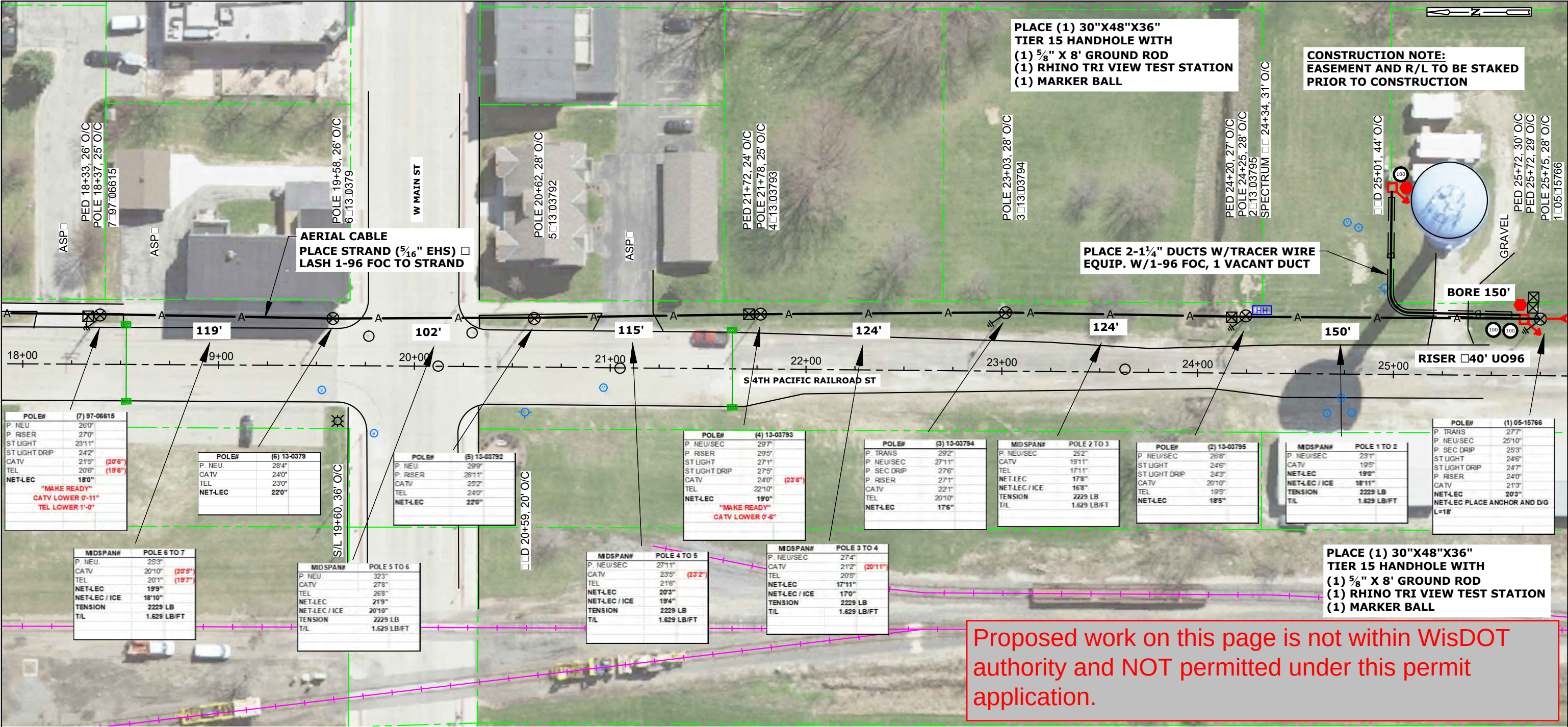
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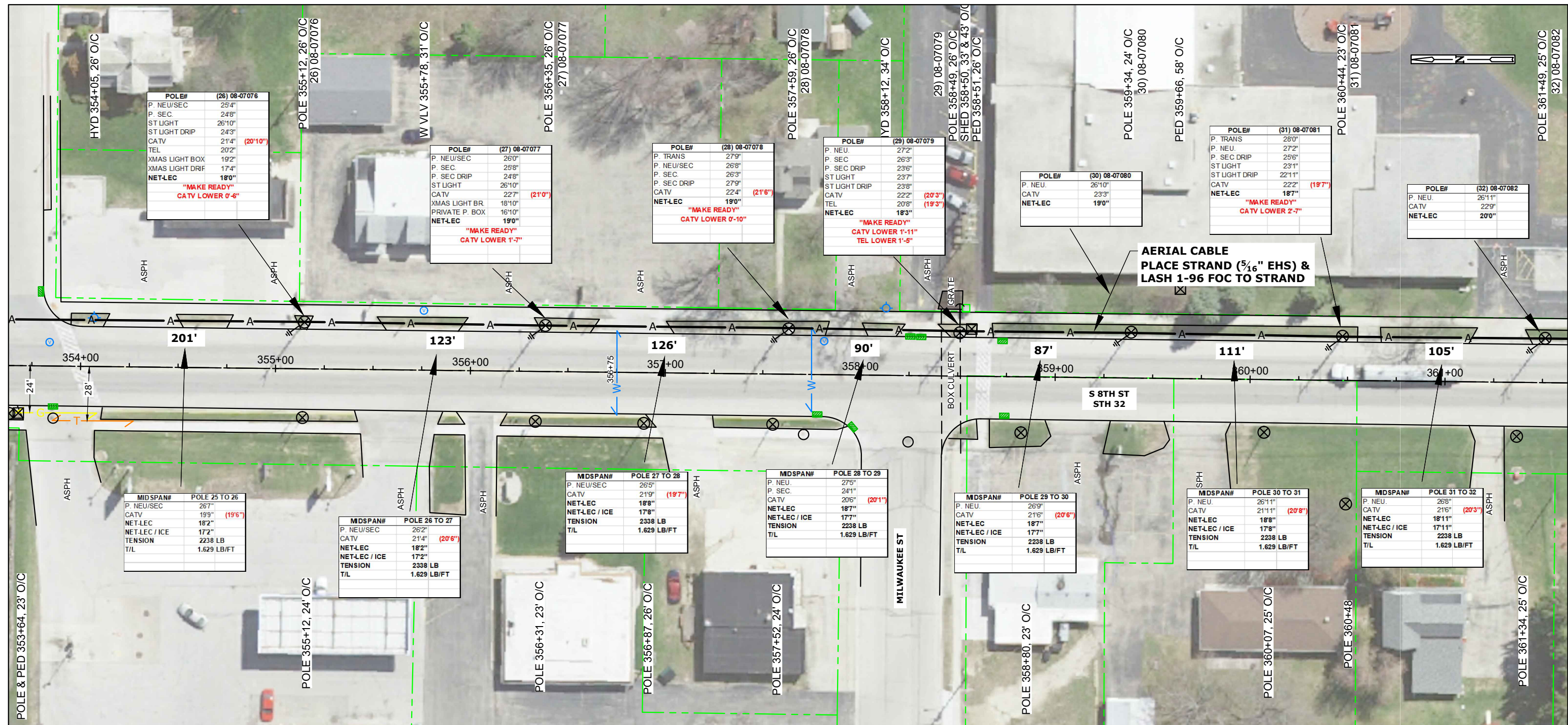
CONT'D PRT 44C

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT						MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	10+75	1	1	1	80						1		1050	3	3	6	3				5										10	SHEET <u>44B</u> OF <u>239</u>				
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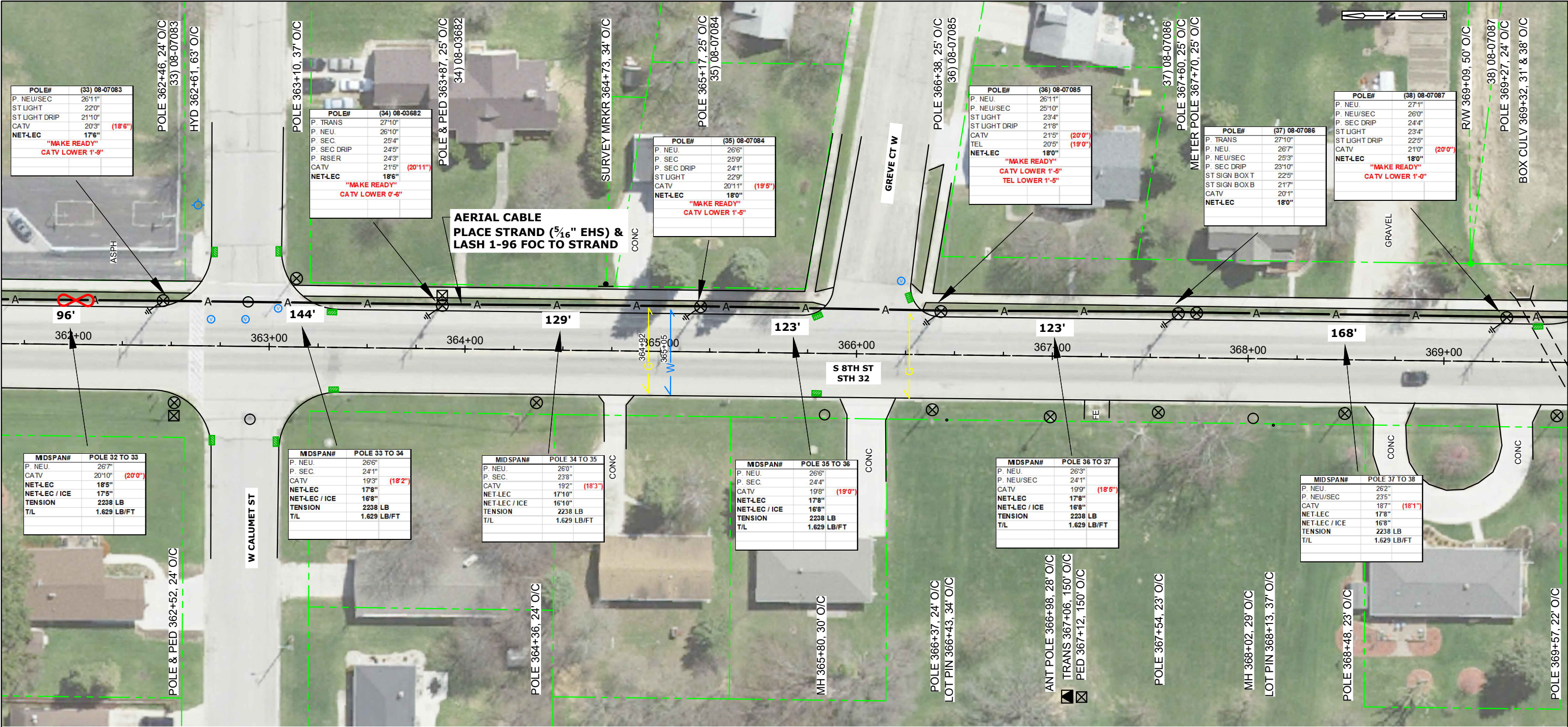


STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	25+75	1	1	1	480		400			2		1150	3	3	6	3				7		155									11	SHEET 44C OF 239		
HH	25+00	1	1	1	150		150			1																						MAP NO.		
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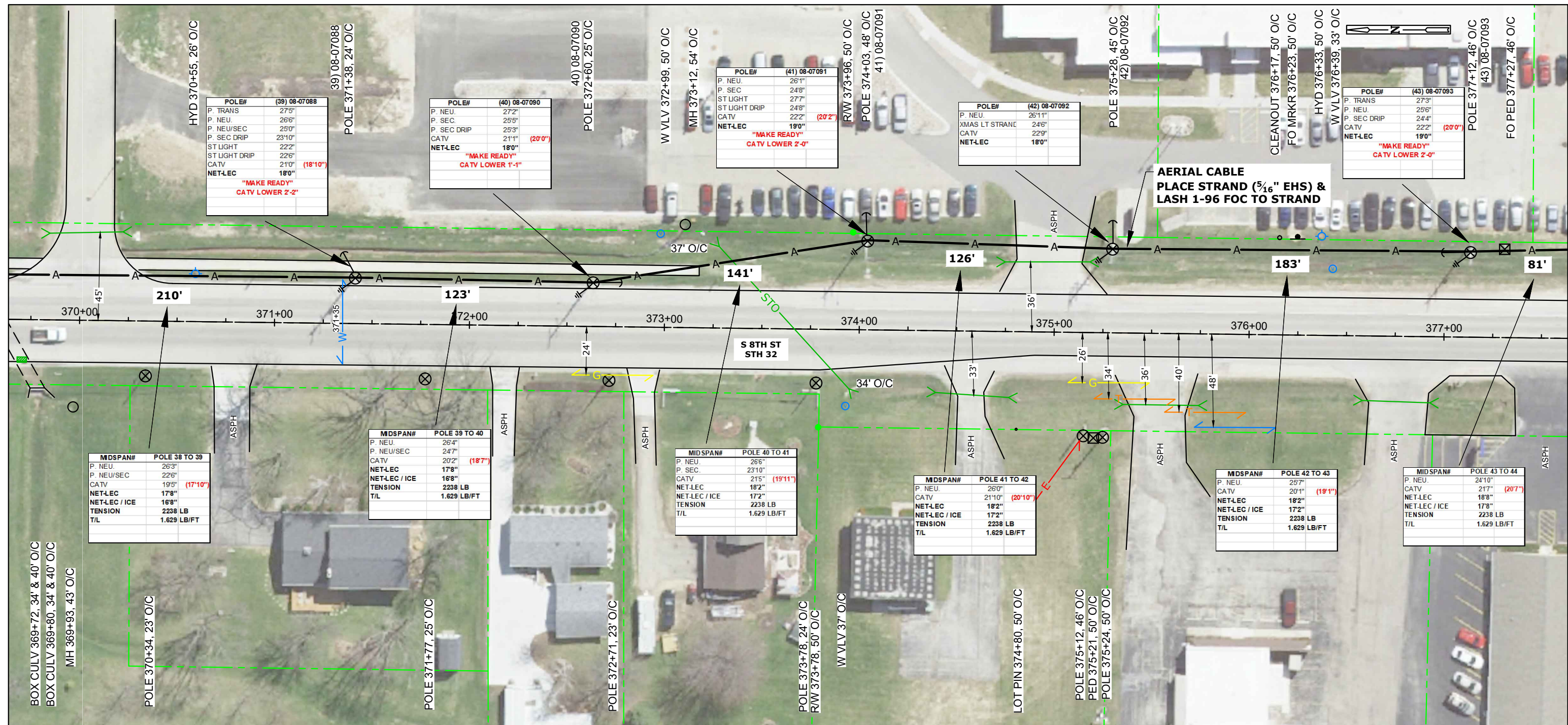
STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES								
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN							
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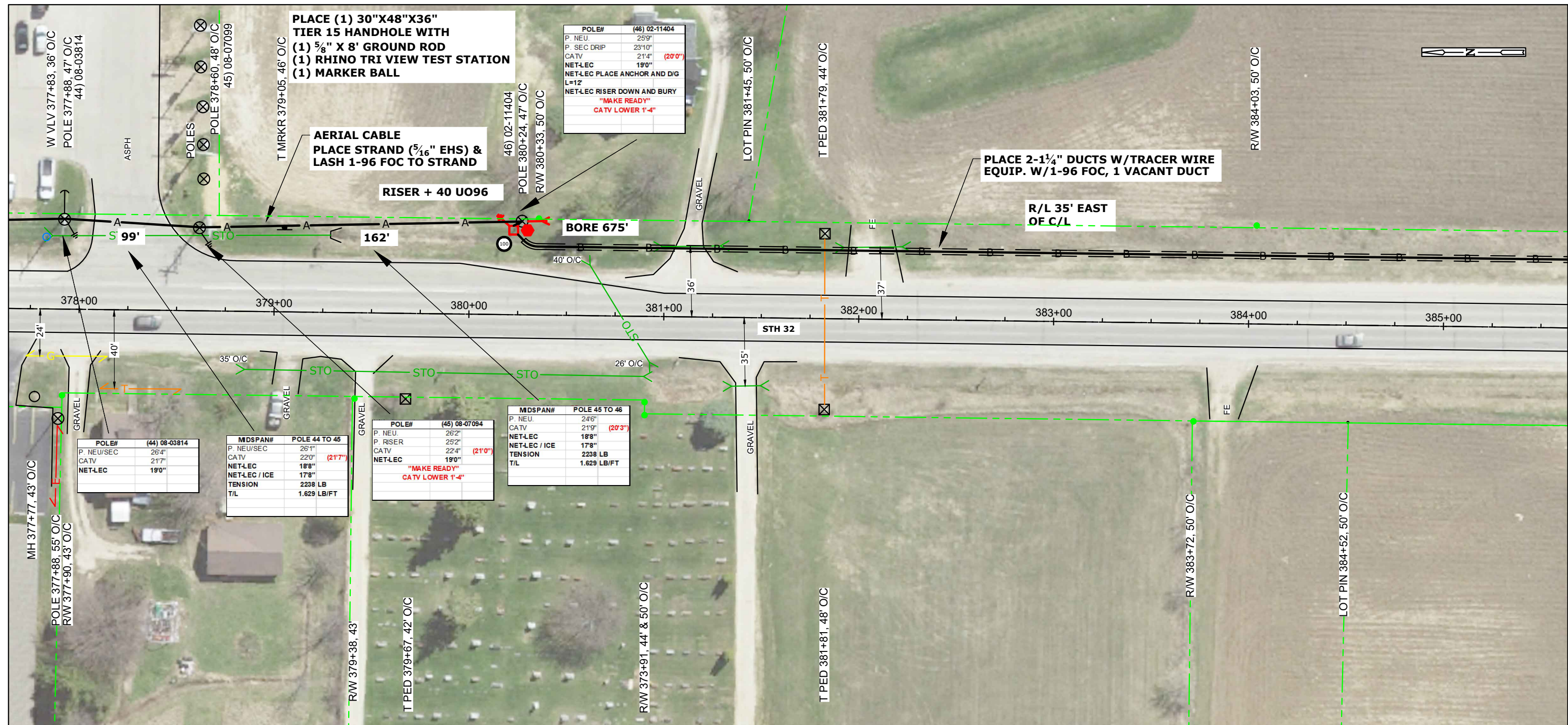


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STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT					MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
AERIAL SLACK																																SHEET 46 OF 239			
LOOP	362+00				40						1	1050								9										10					
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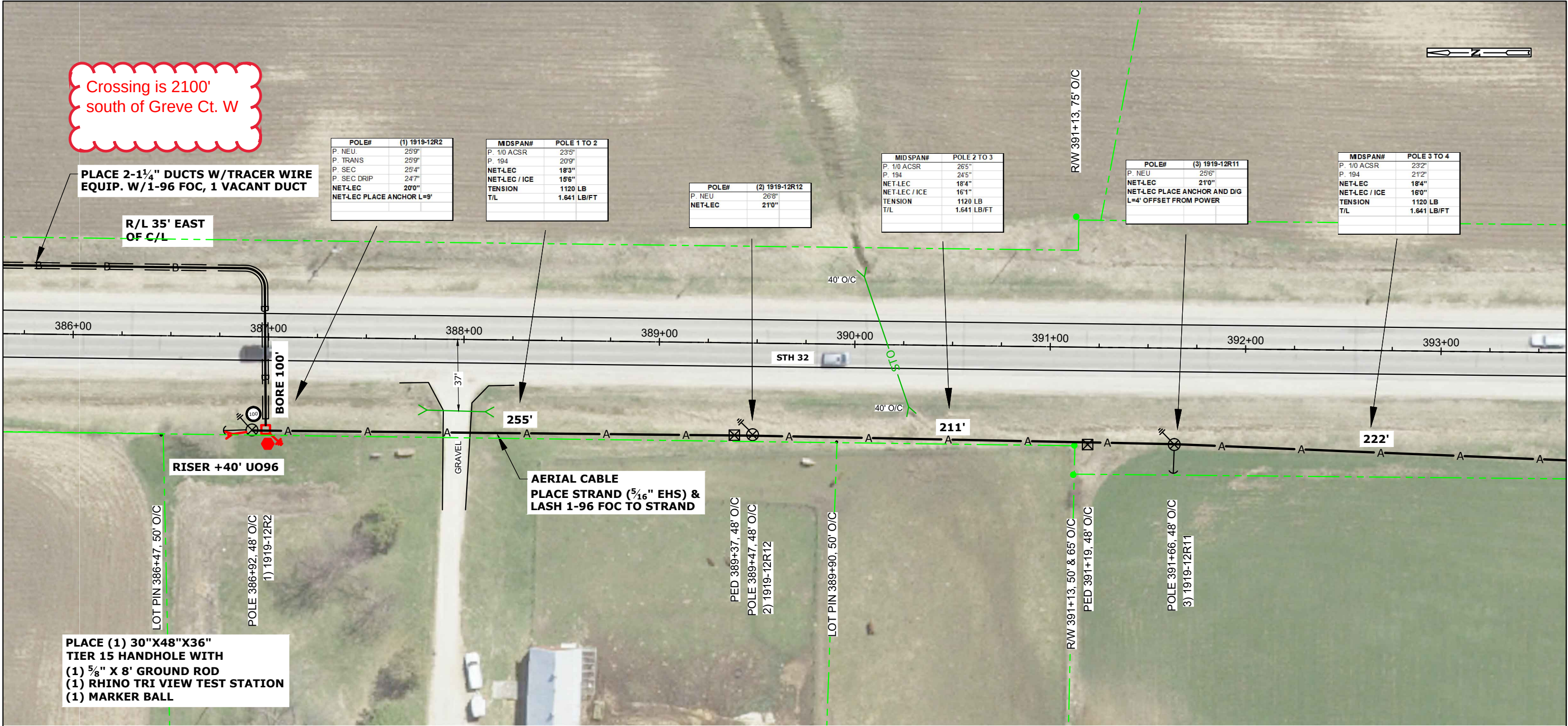


STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
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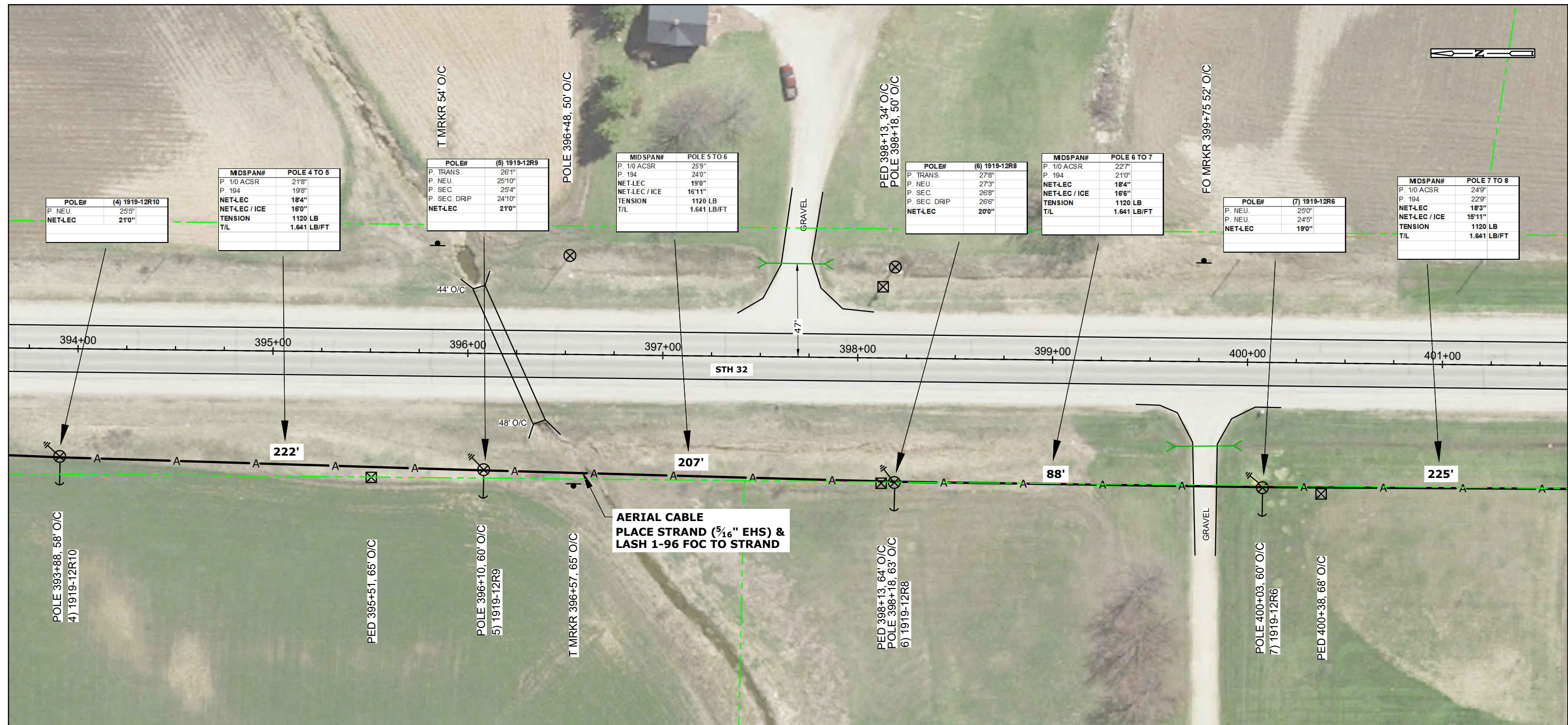
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CONT'D PRT 48

CONT'D PRT 50

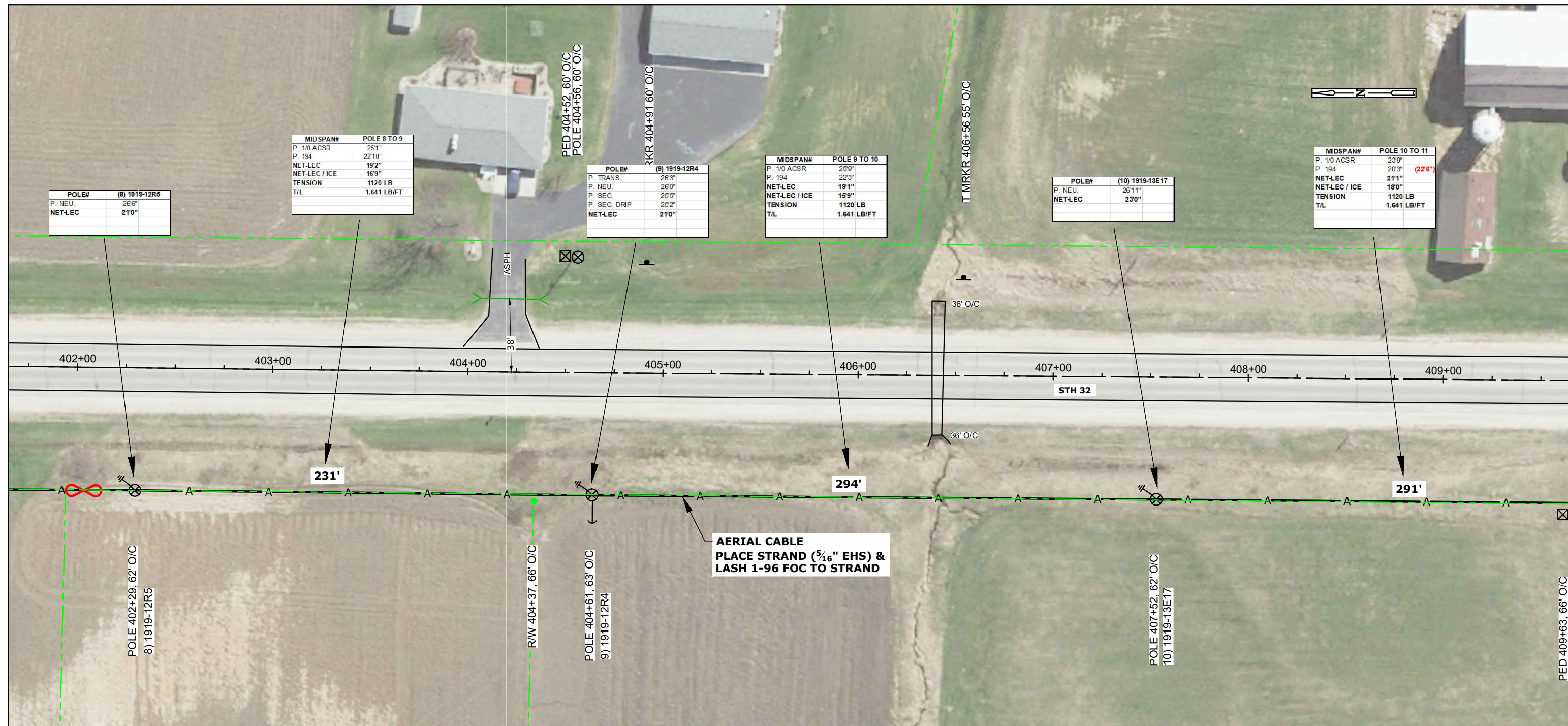


STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES			NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 49 OF 239				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA								
HH	387+00	1	1	1	775		775			1																											



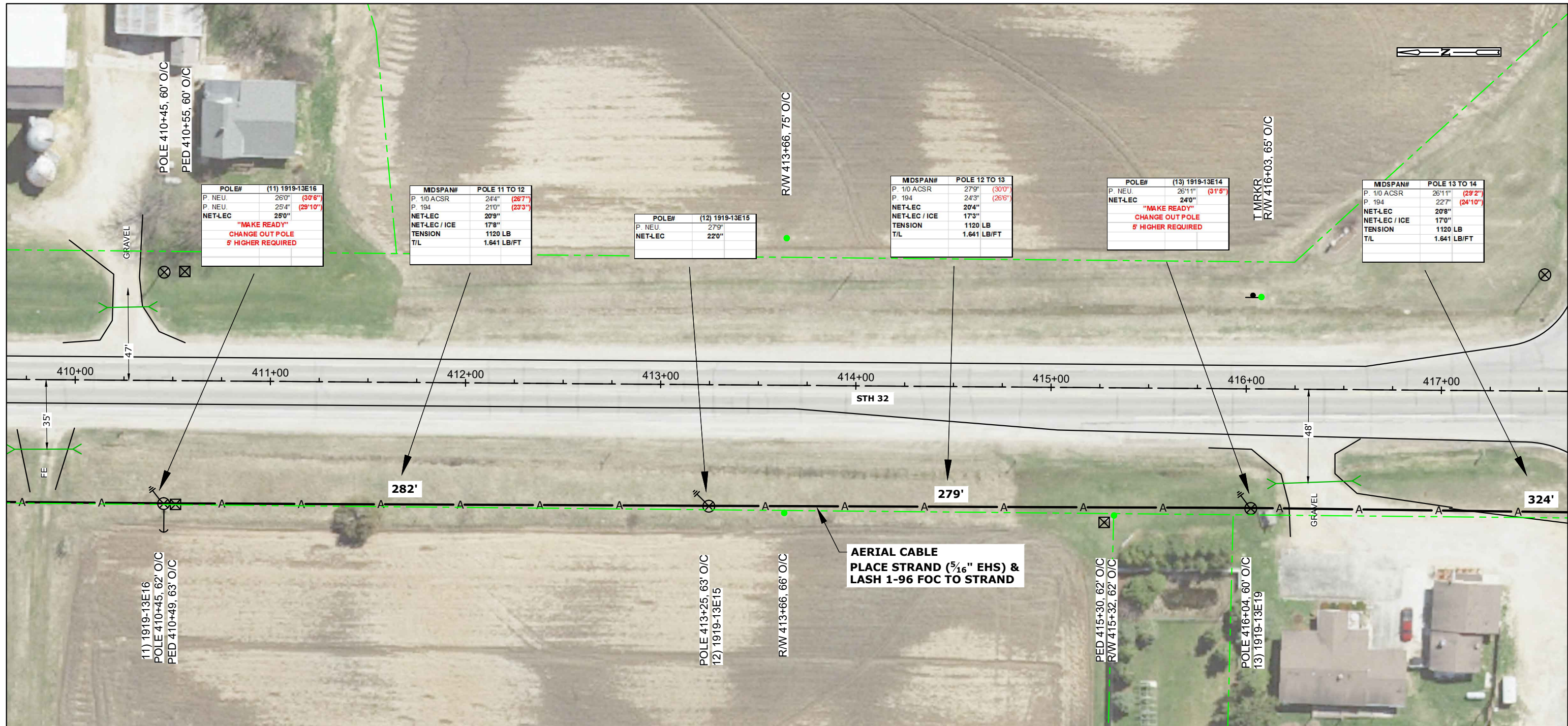
STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES							
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{3}{16}$ "EHS)	PE 1-3 ($\frac{3}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
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																																			BASE		AL	
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TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

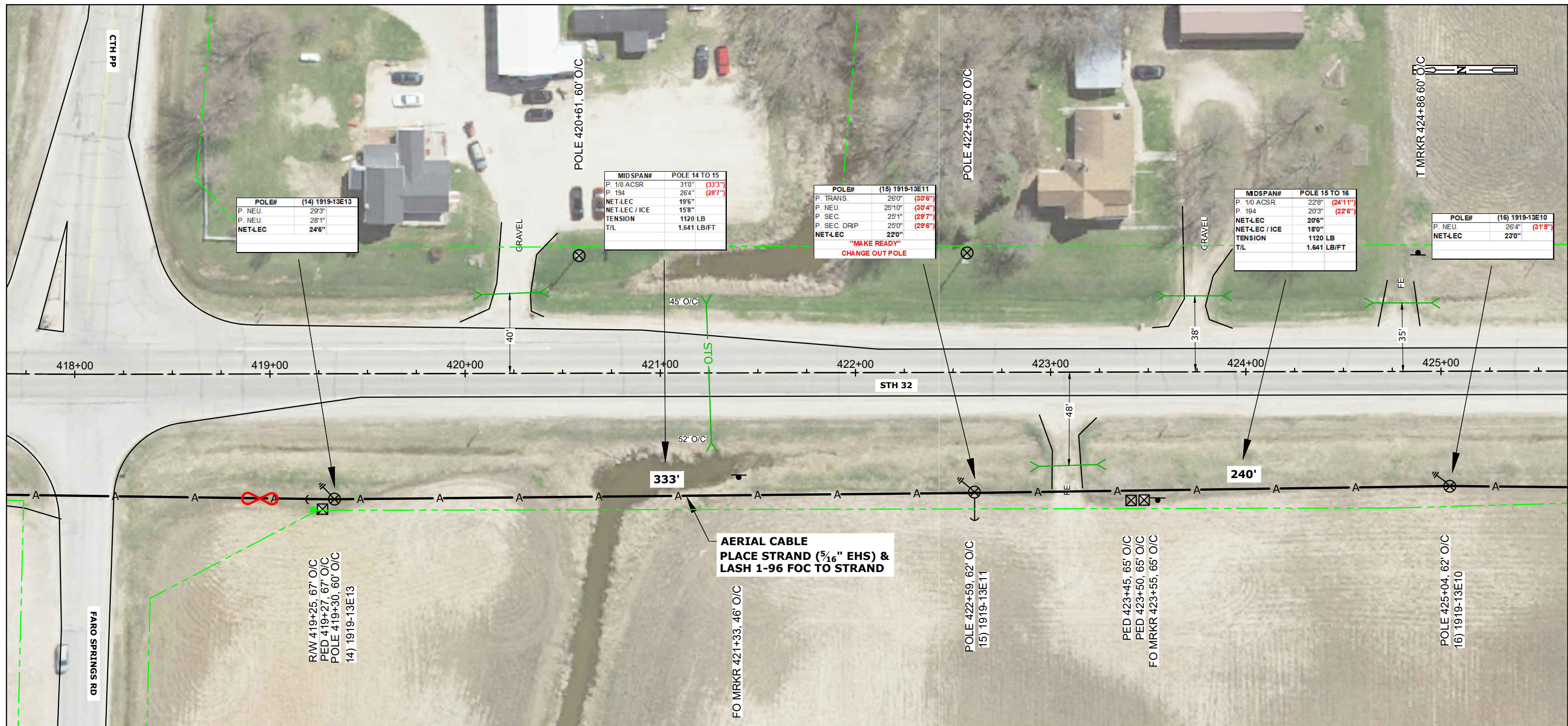
CONT'D PRT 50



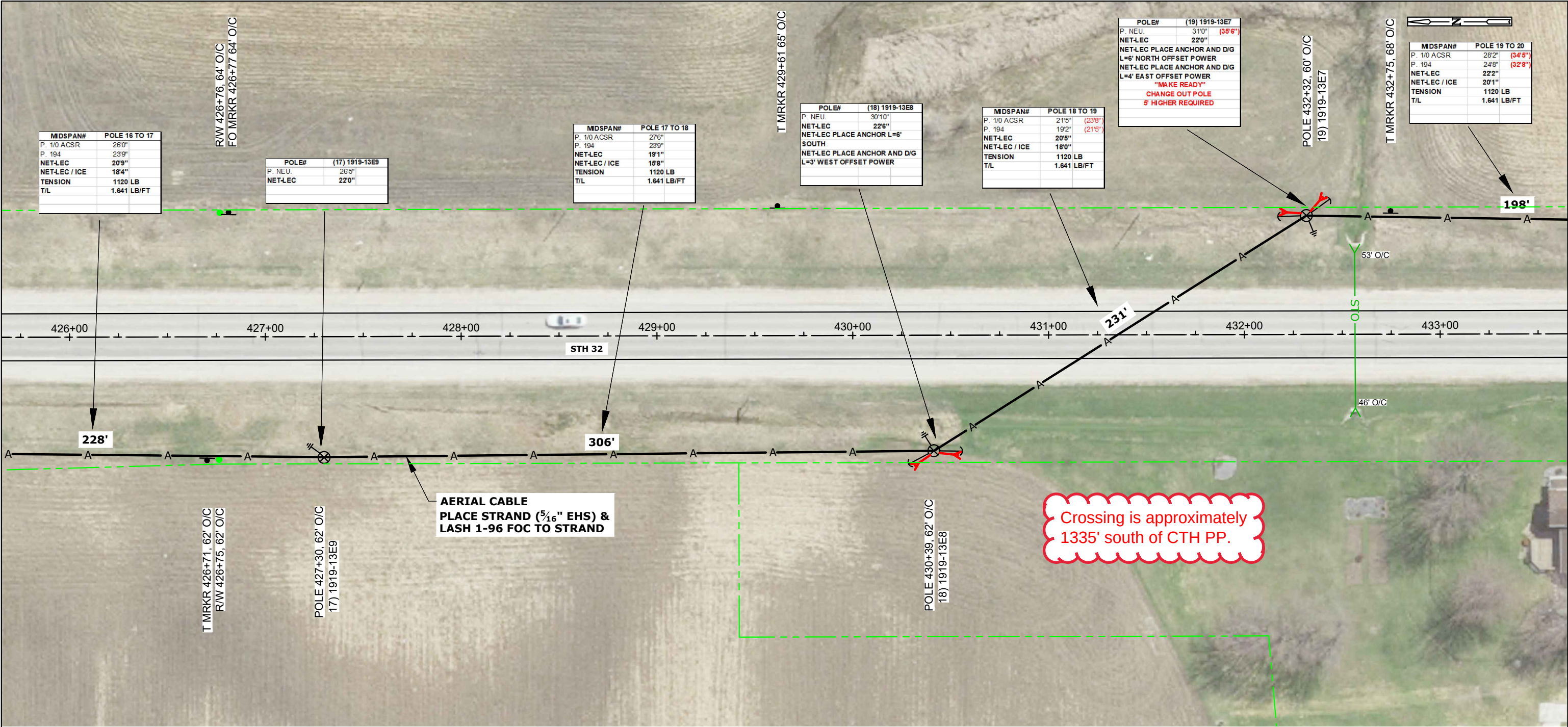
CONT'D PRT 52

[illegible]

[illegible]

[illegible]

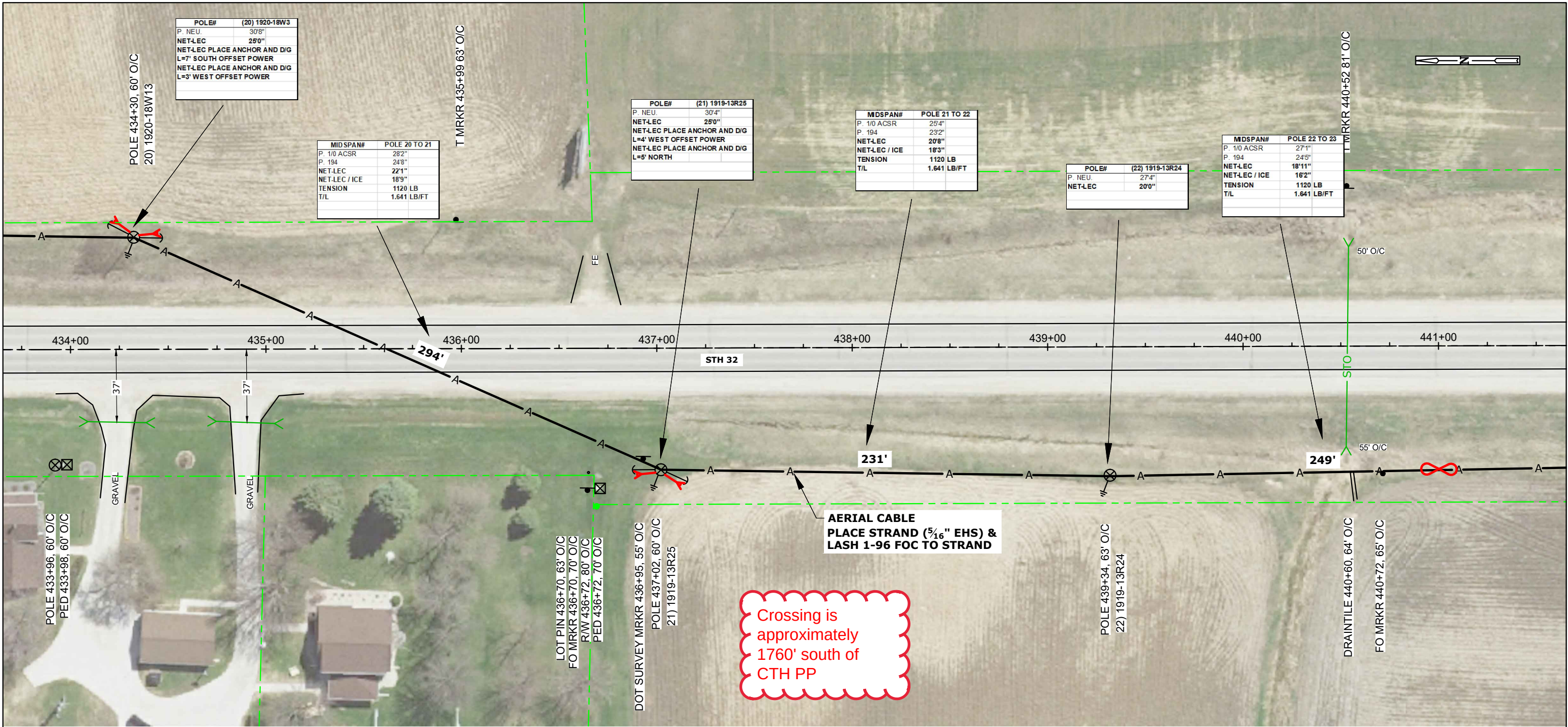
CONT'D PRT 53



CONT'D PRT 55

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
																																		SHEET 54 OF 239			
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 NORTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	

CONT'D PRT 54

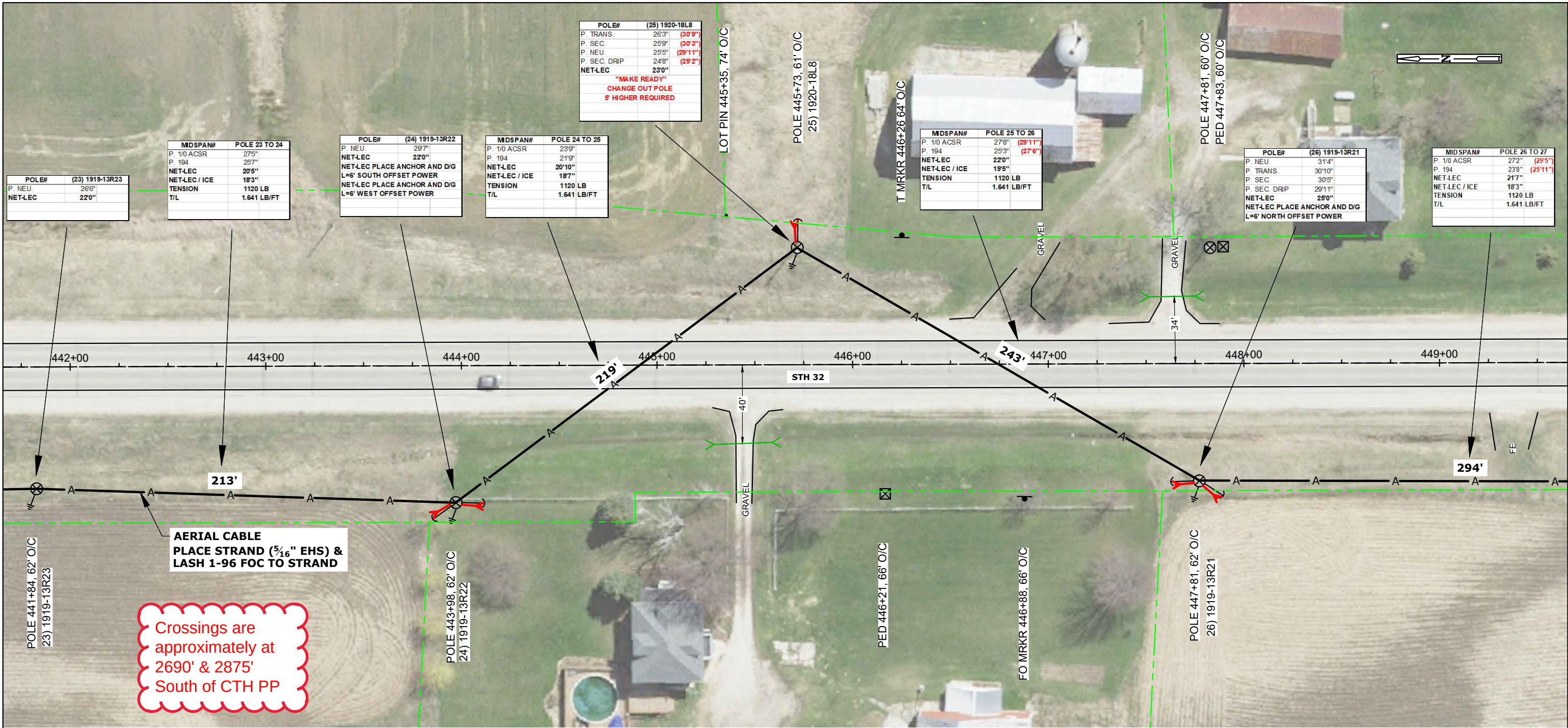


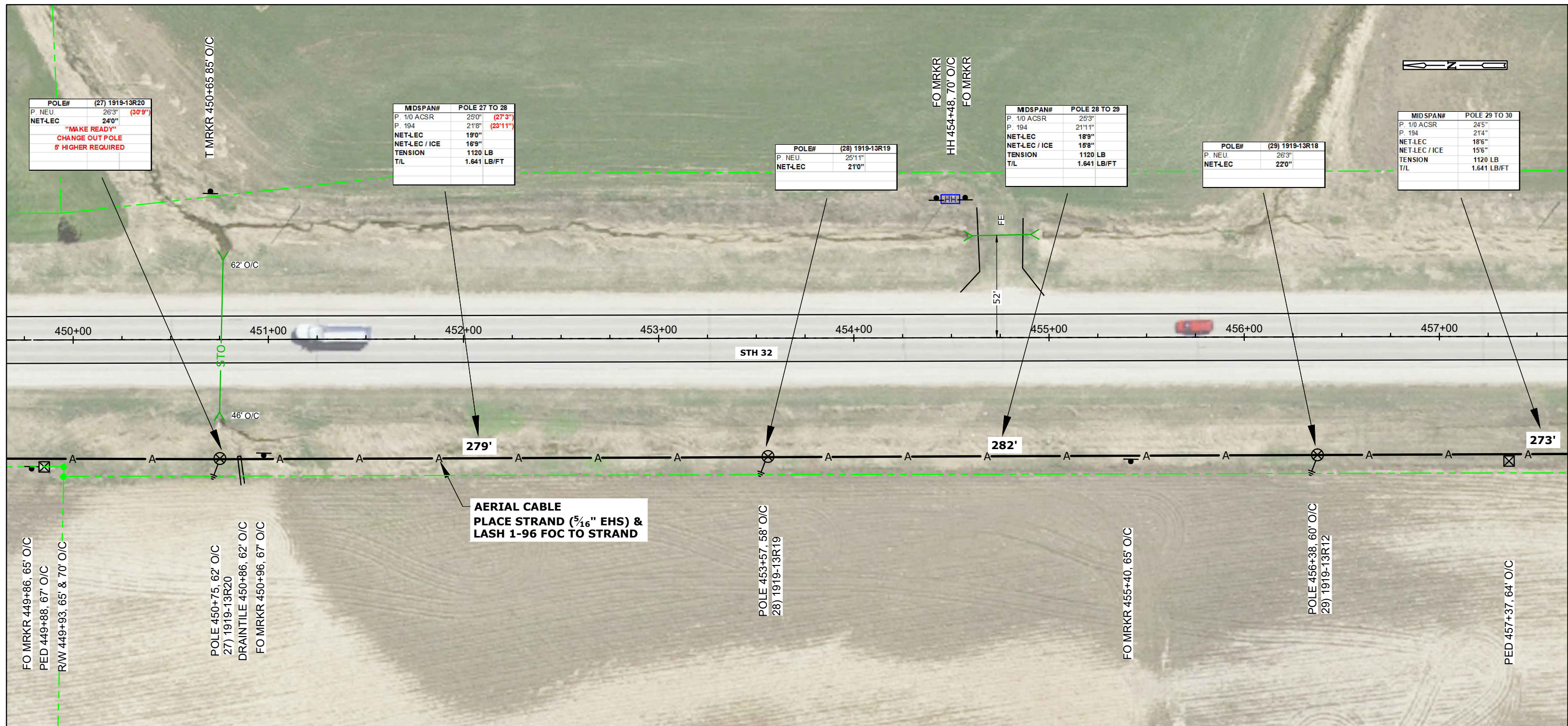
CONT'D PRT 56

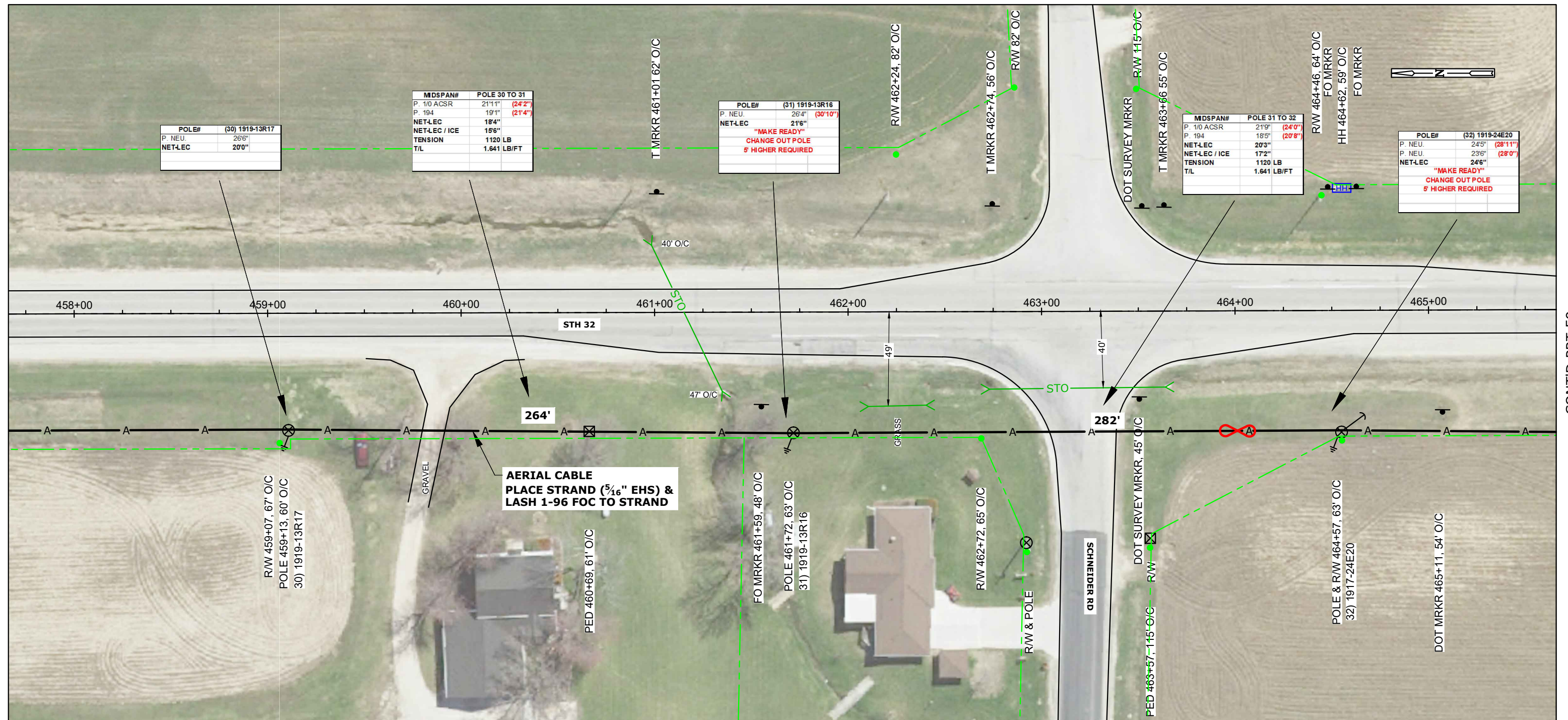
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT					MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
AERIAL SLACK																															SHEET 55 OF 239					
LOOP	441+00										1	2275	8	8		8					9									9						
																															MAP NO.					
																															FILE NAME: Calumet N18-47 NORTH.dwg					
																															P.O.# NL18-47					
																															DRAFTING		BY	DATE		
																															BASE		AL			
																															DESIGN		PC			
																															BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	1	2275	8	8	####	8	####	####	####	####	9	####	####	####	####	####	####	####	####	9	ASBUILT			NOT TO SCALE		

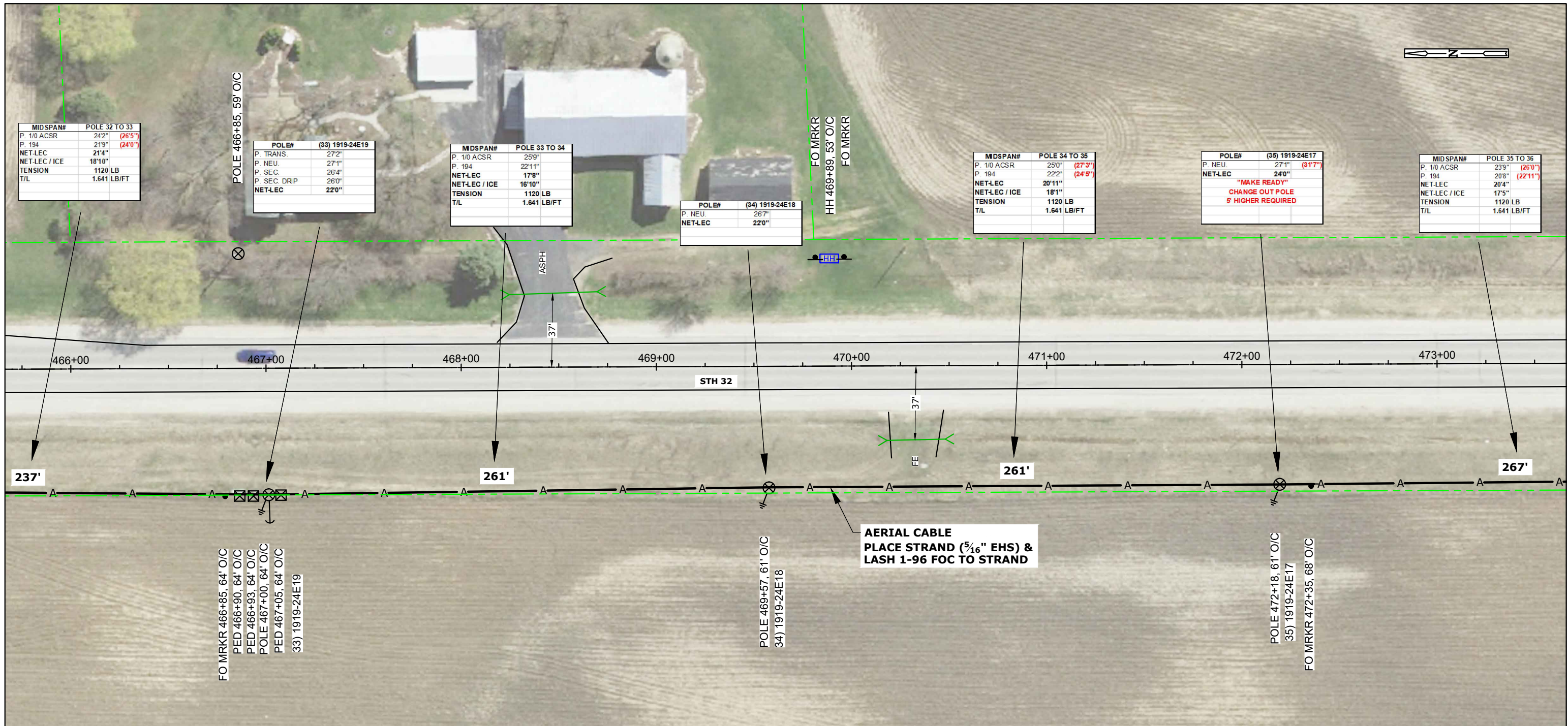
CONT'D PRT 55

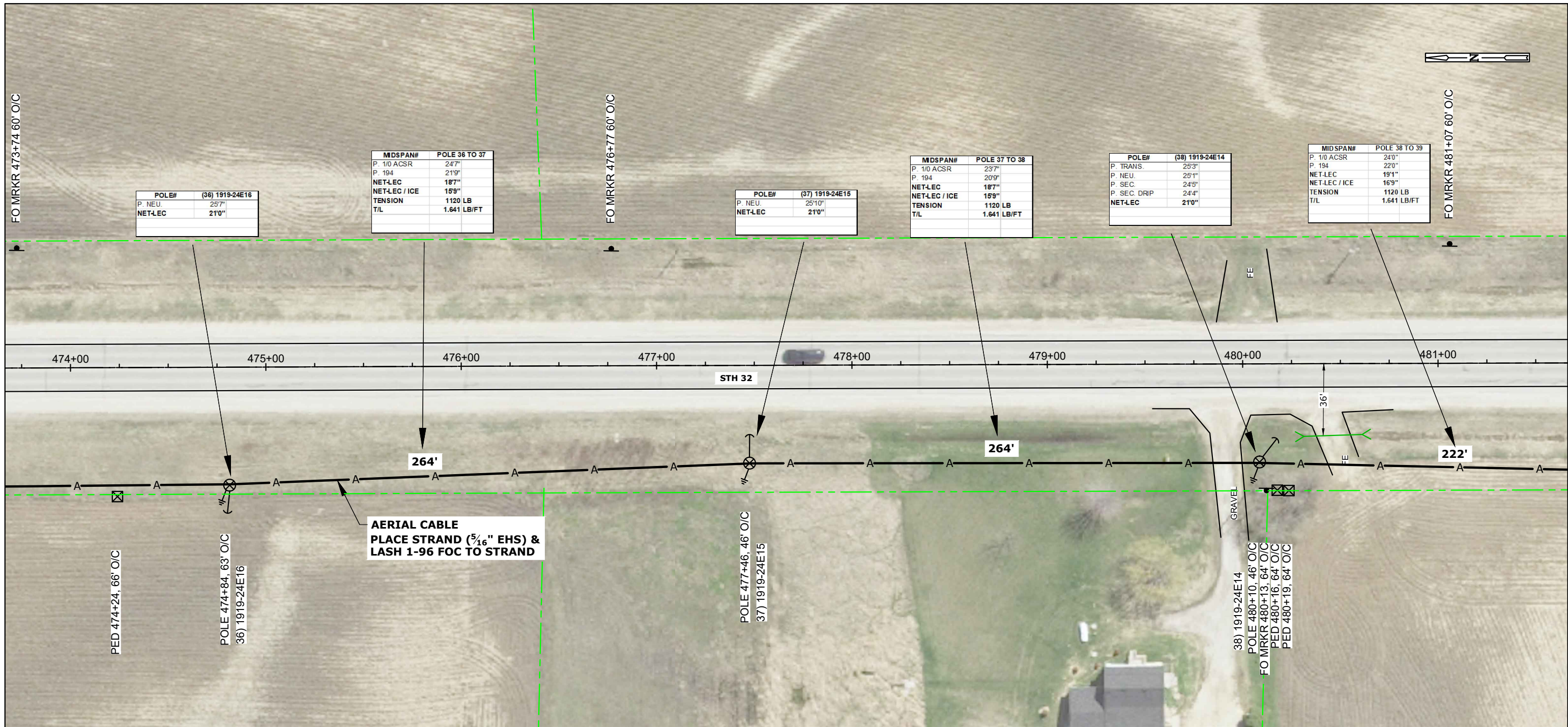
CONT'D PRT 57

[illegible]

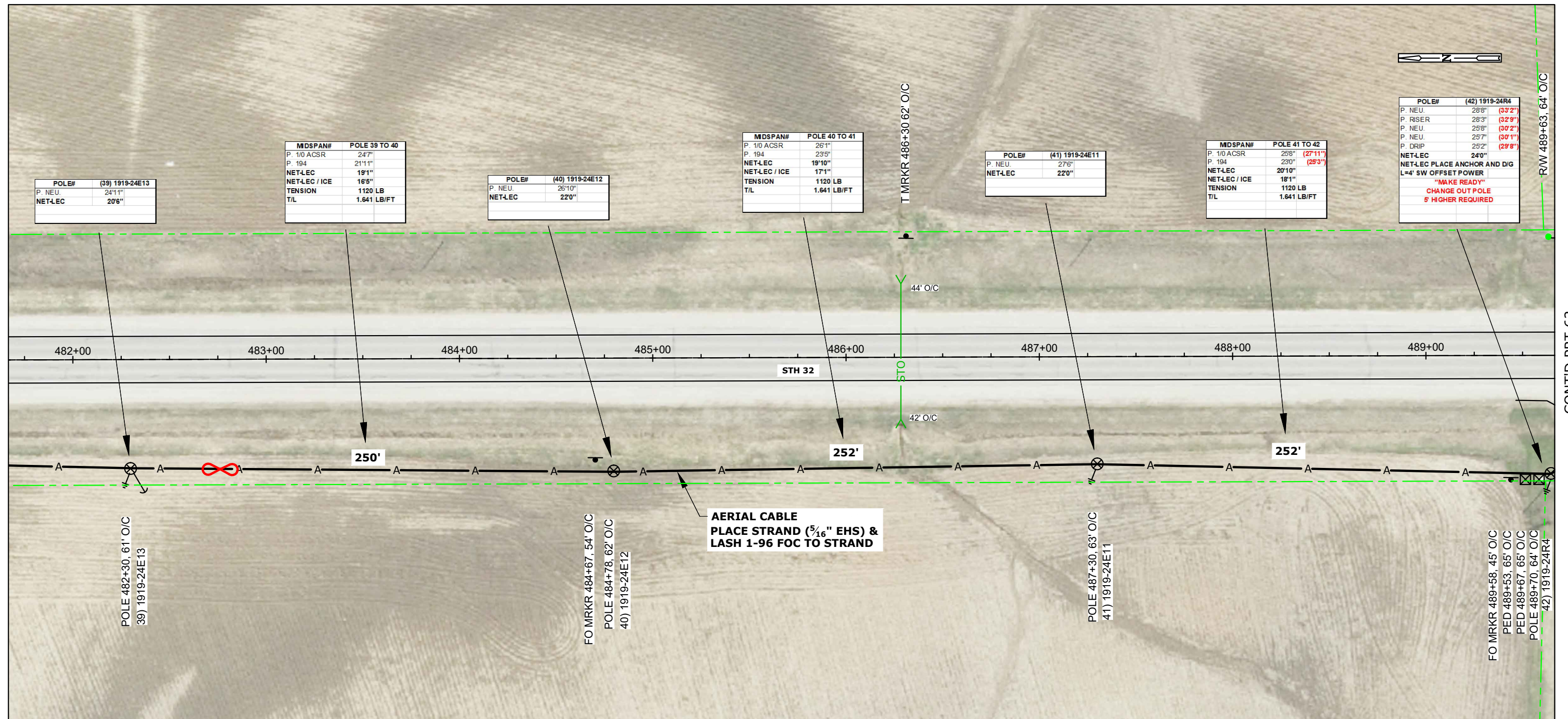
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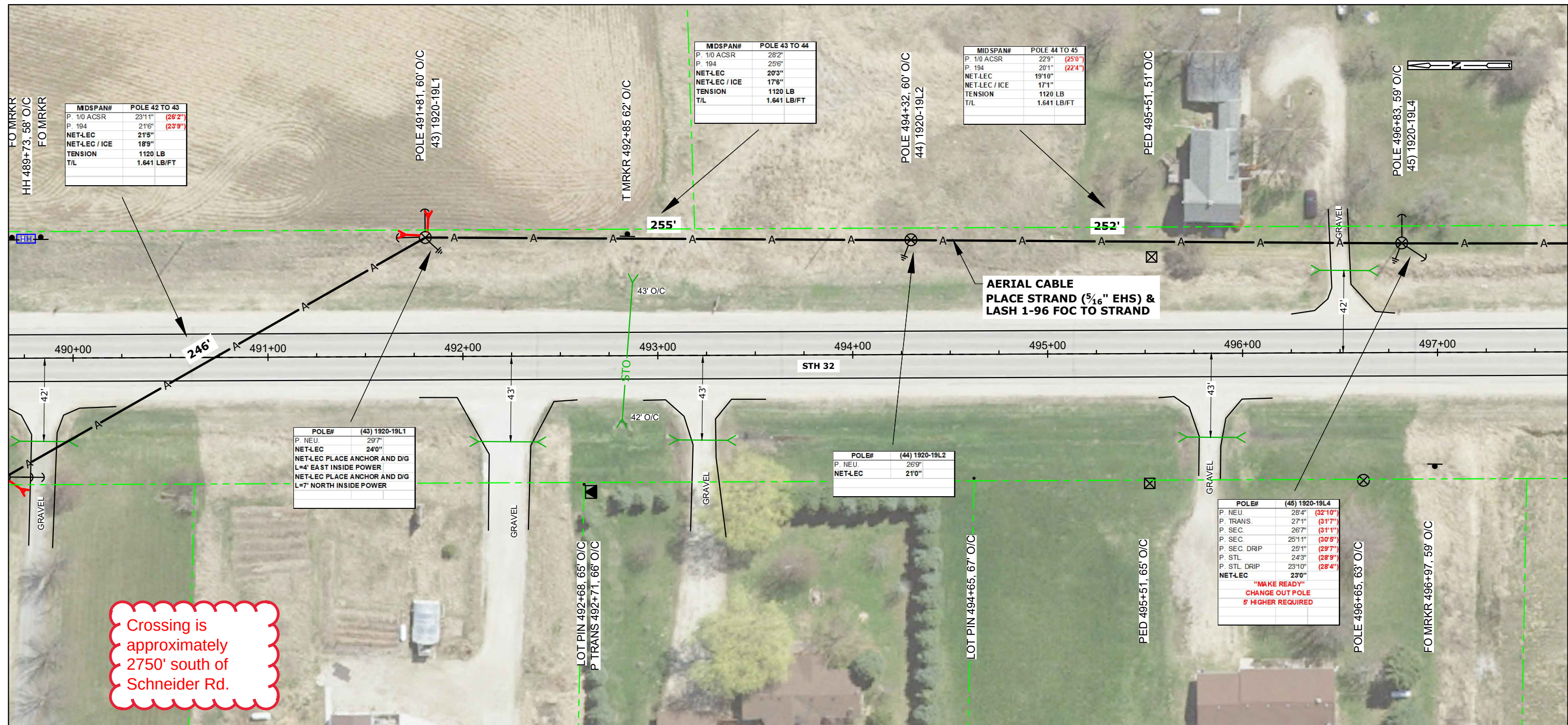
[illegible]

[illegible]

[illegible]

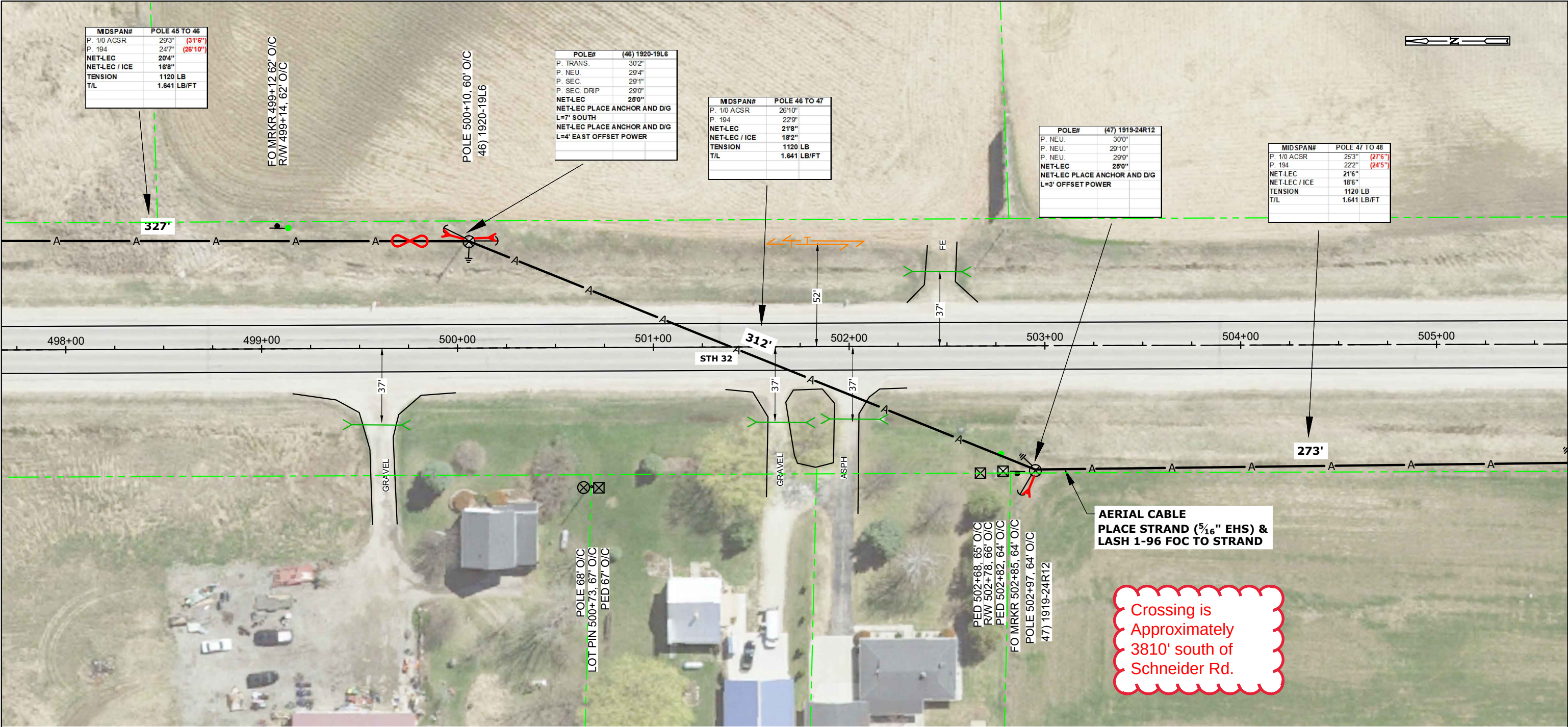
CONT'D PRT 60

[illegible]



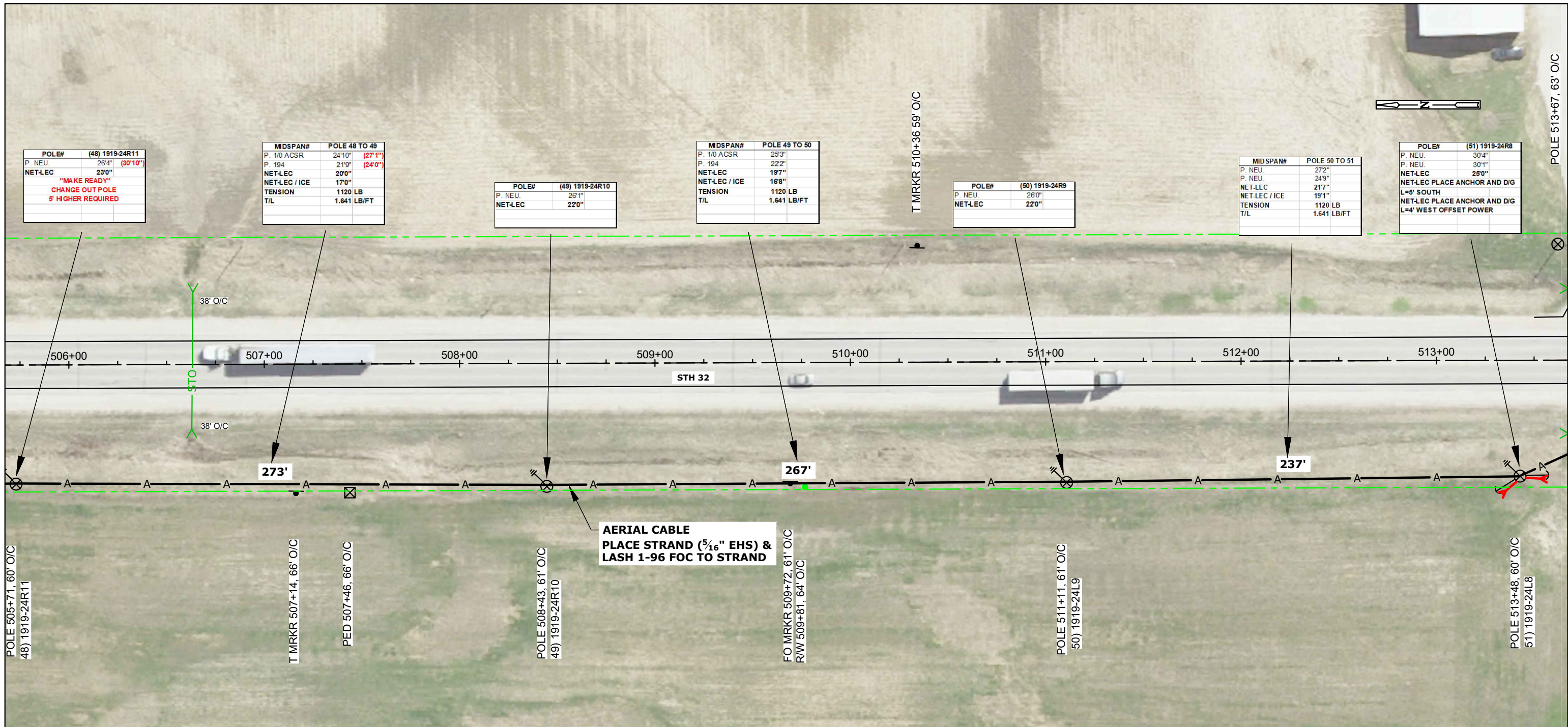
STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN	
																																SHEET 62 OF 239	
															</																		

CONT'D PRT 62

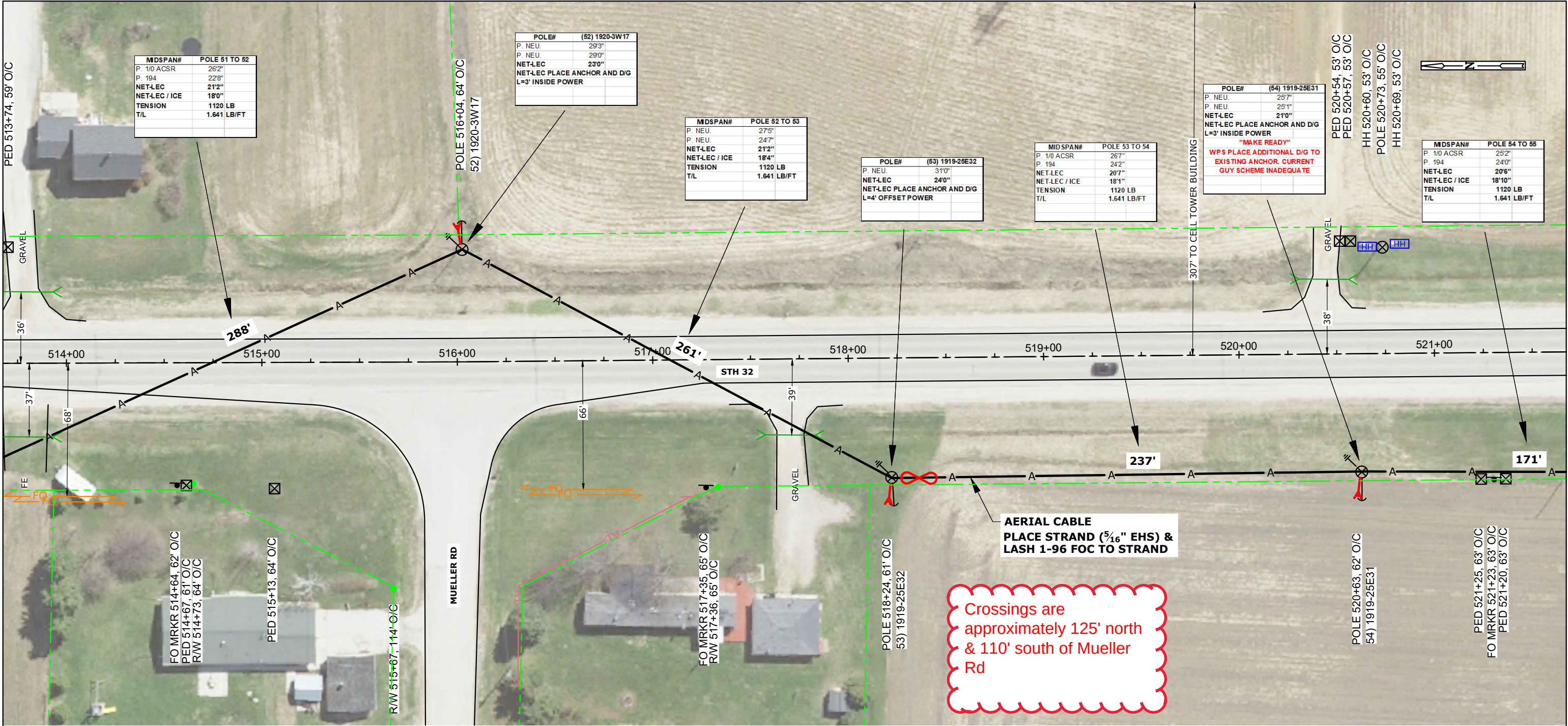


CONT'D PRT 64

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA						
AERIAL SLACK																																			
LOOP	499+75										1	1750	3	3		3				6												6			
																														</					

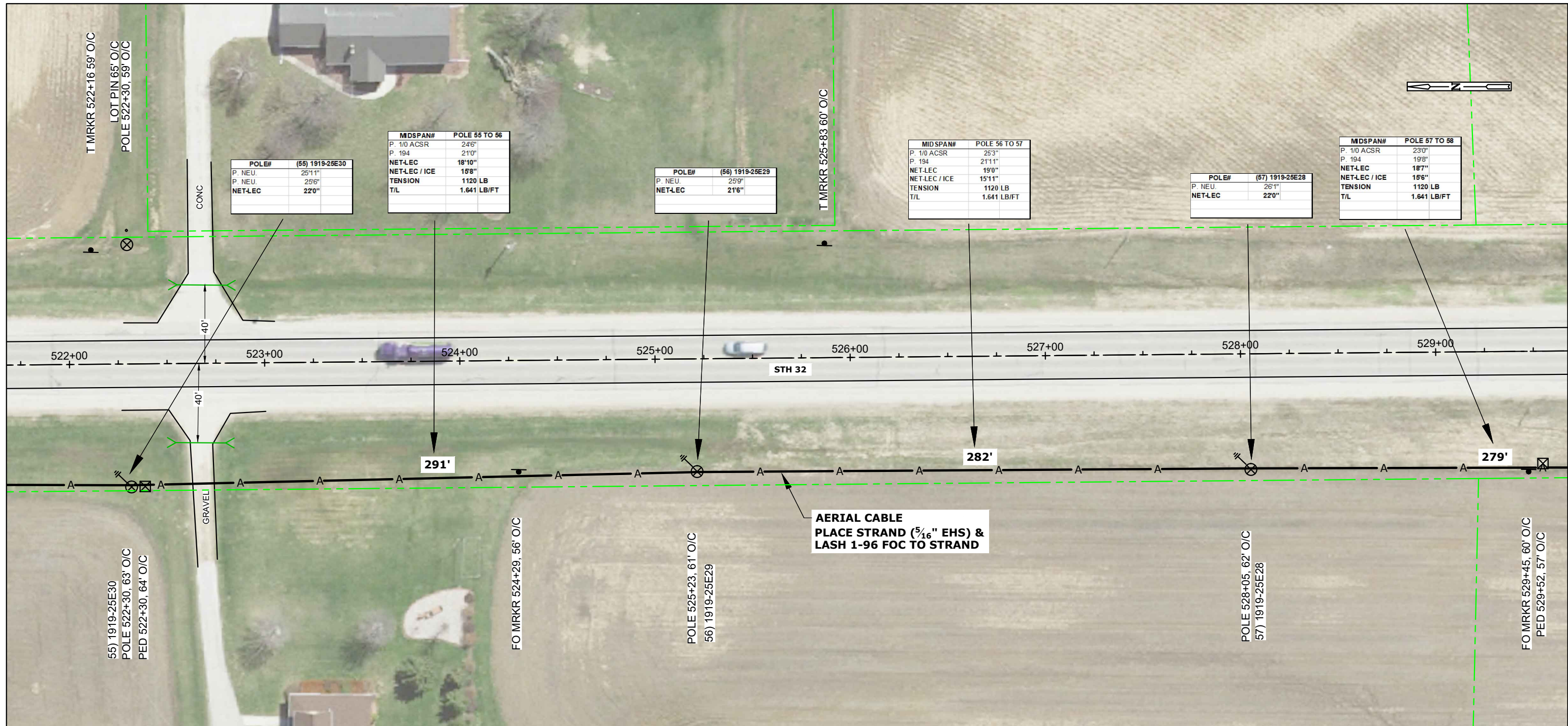
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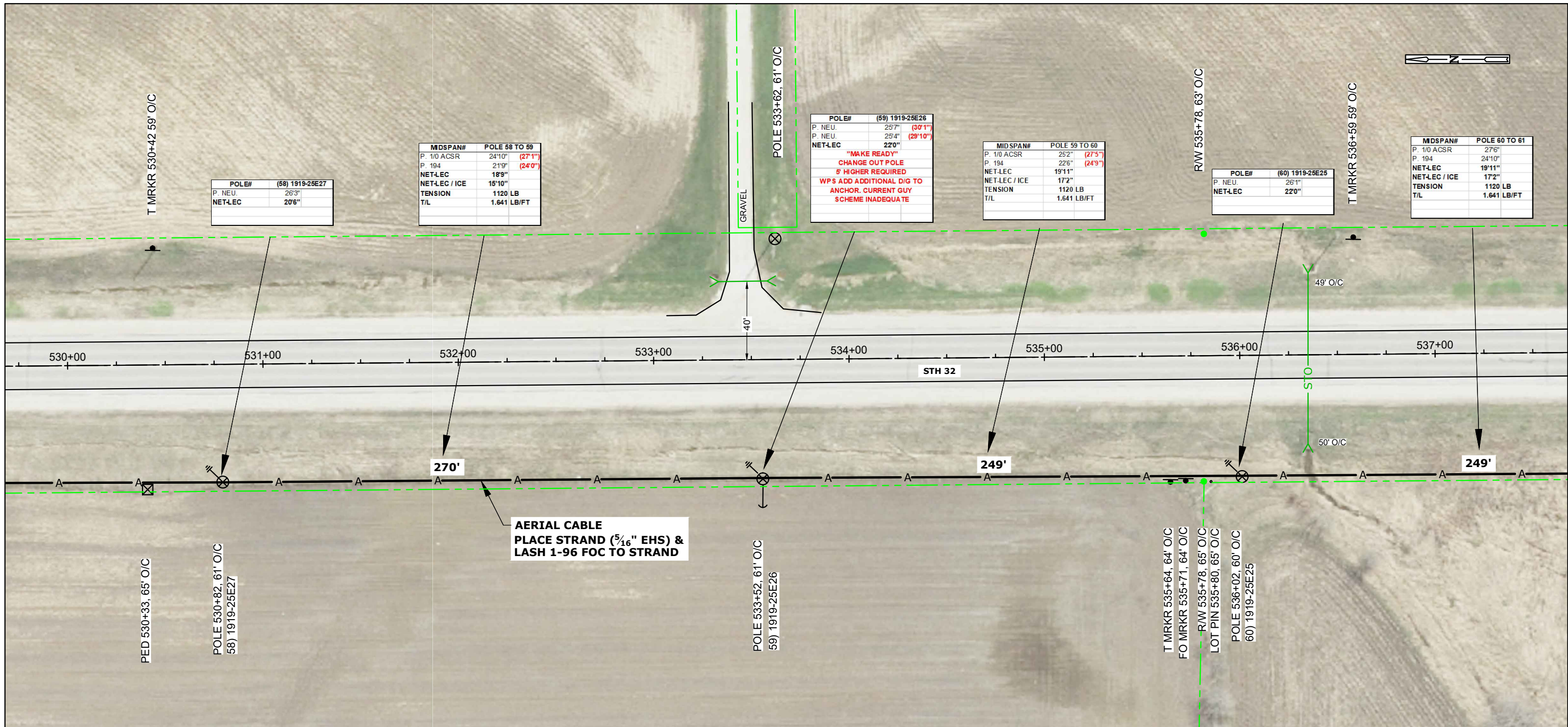
CONT'D PRT 64



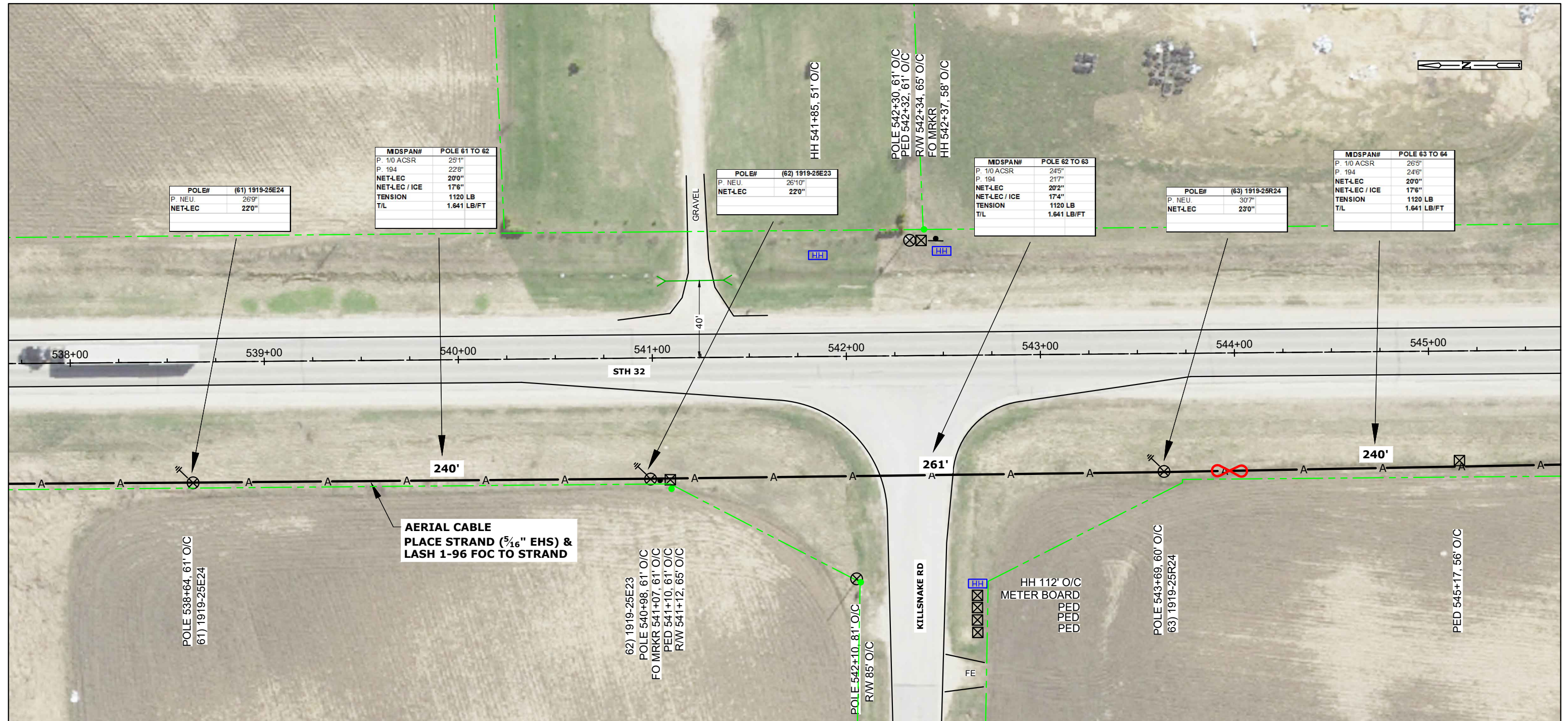
CONT'D PRT 66

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT					MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
AERIAL SLACK																															SHEET 65 OF 239				
LOOP	518+50										1	1975	7	7		7				8										8					
																															MAP NO.				
																															FILE NAME: Calumet N18-47 NORTH.dwg				
																															P.O.# NL18-47				
																															DRAFTING		BY	DATE	
																															BASE		AL		
																															DESIGN		PC		
TOTAL:		####	####	####	####	####	####	####	####	####	1	1975	7	7	####	7	####	####	####	8	####	####	####	####	####	####	####	####	####	8	ASBUILT				
																														NOT TO SCALE					

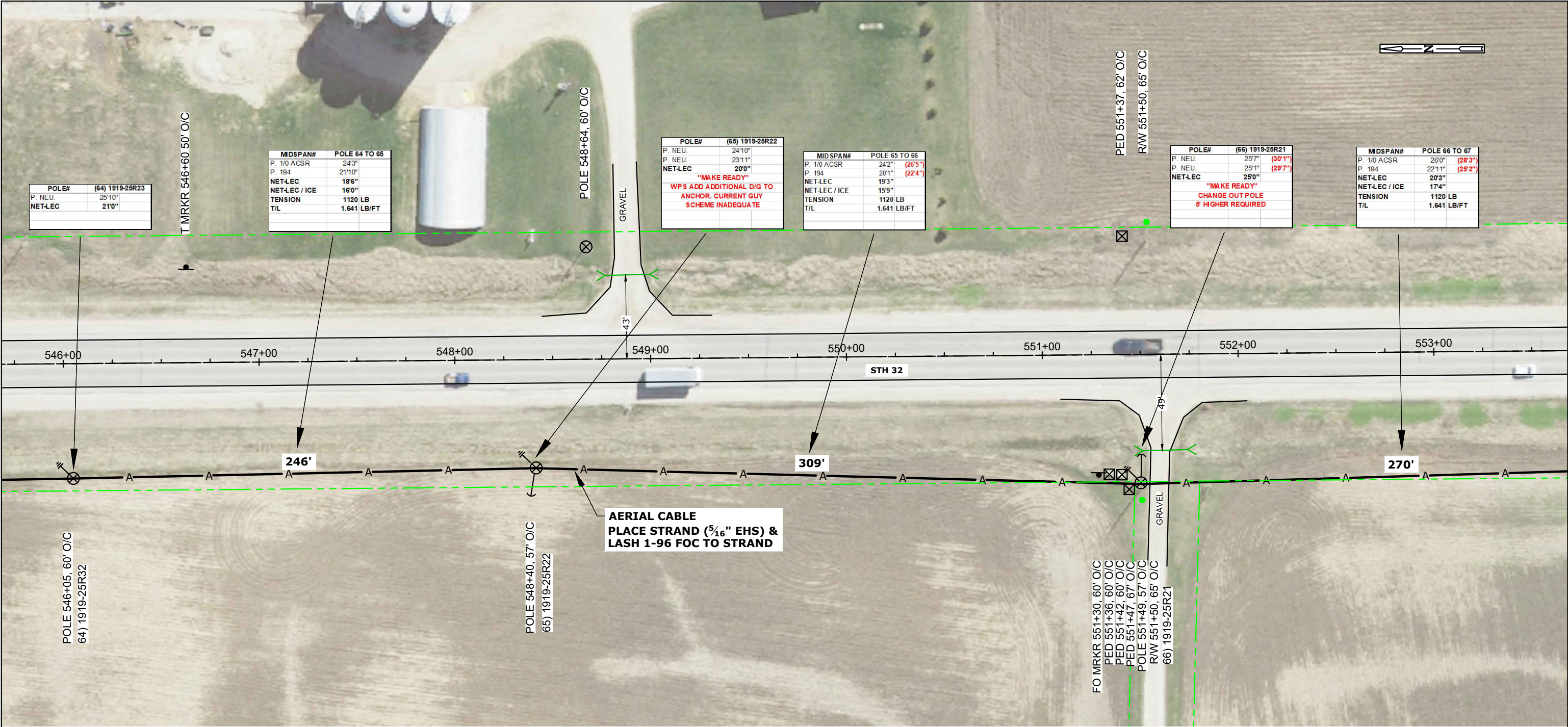
[illegible]

[illegible]

CONT'D PRT 69

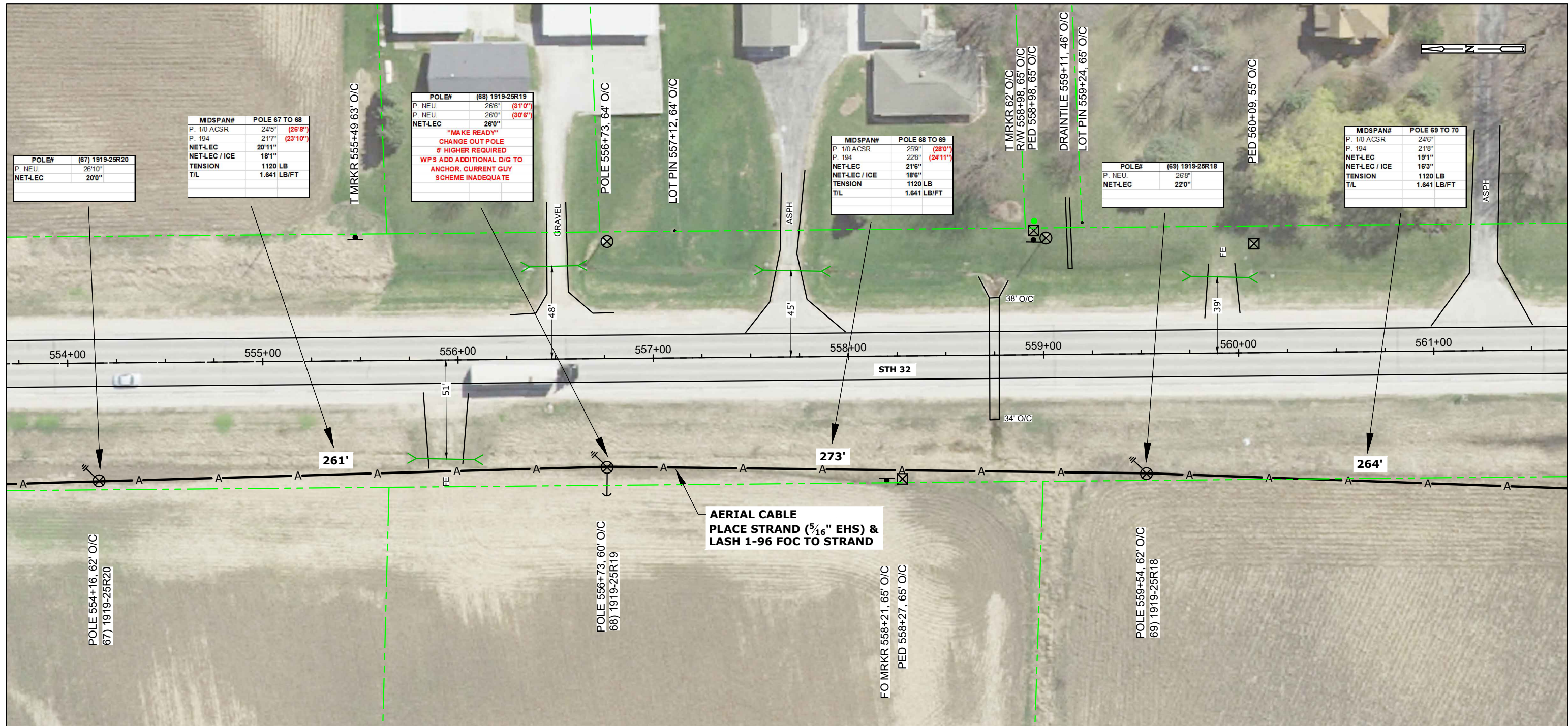
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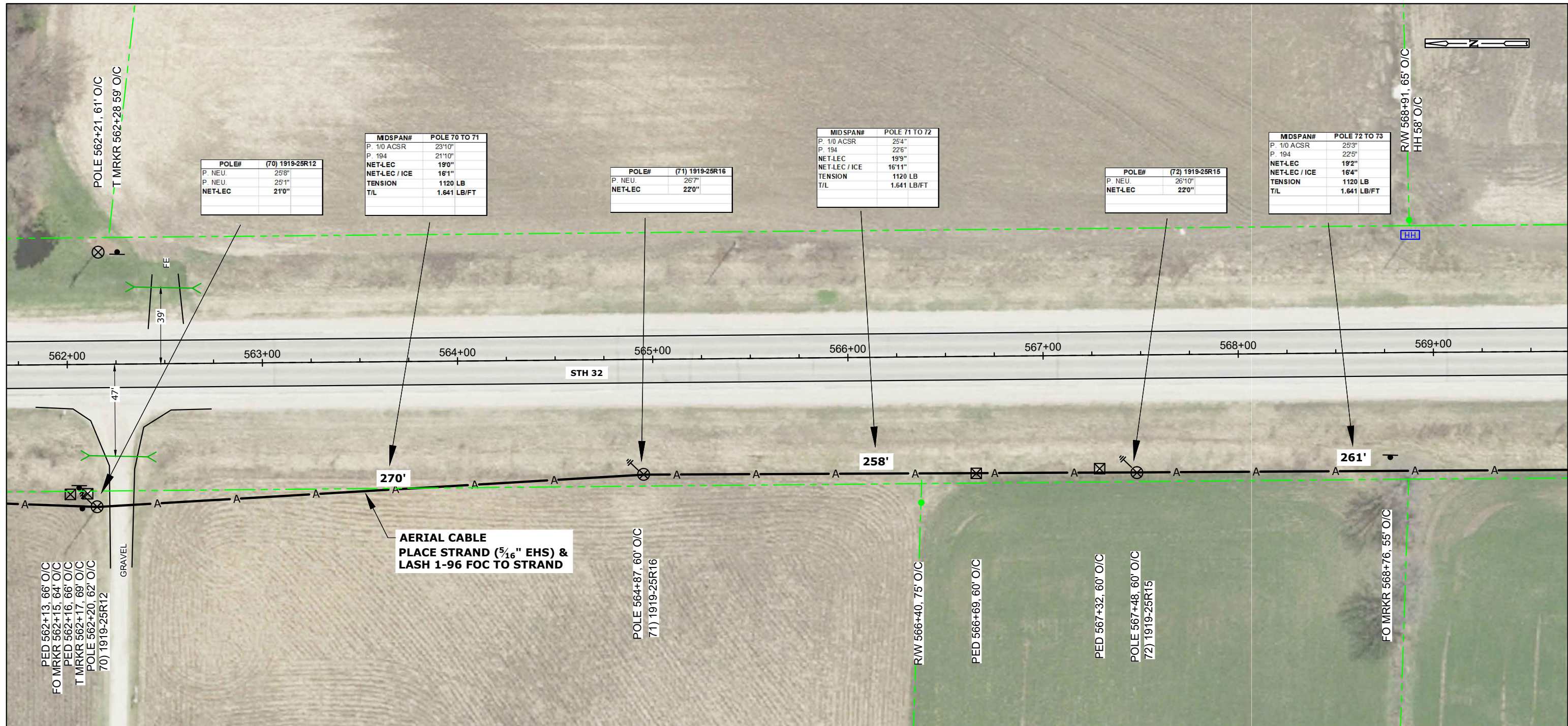
CONT'D PRT 68



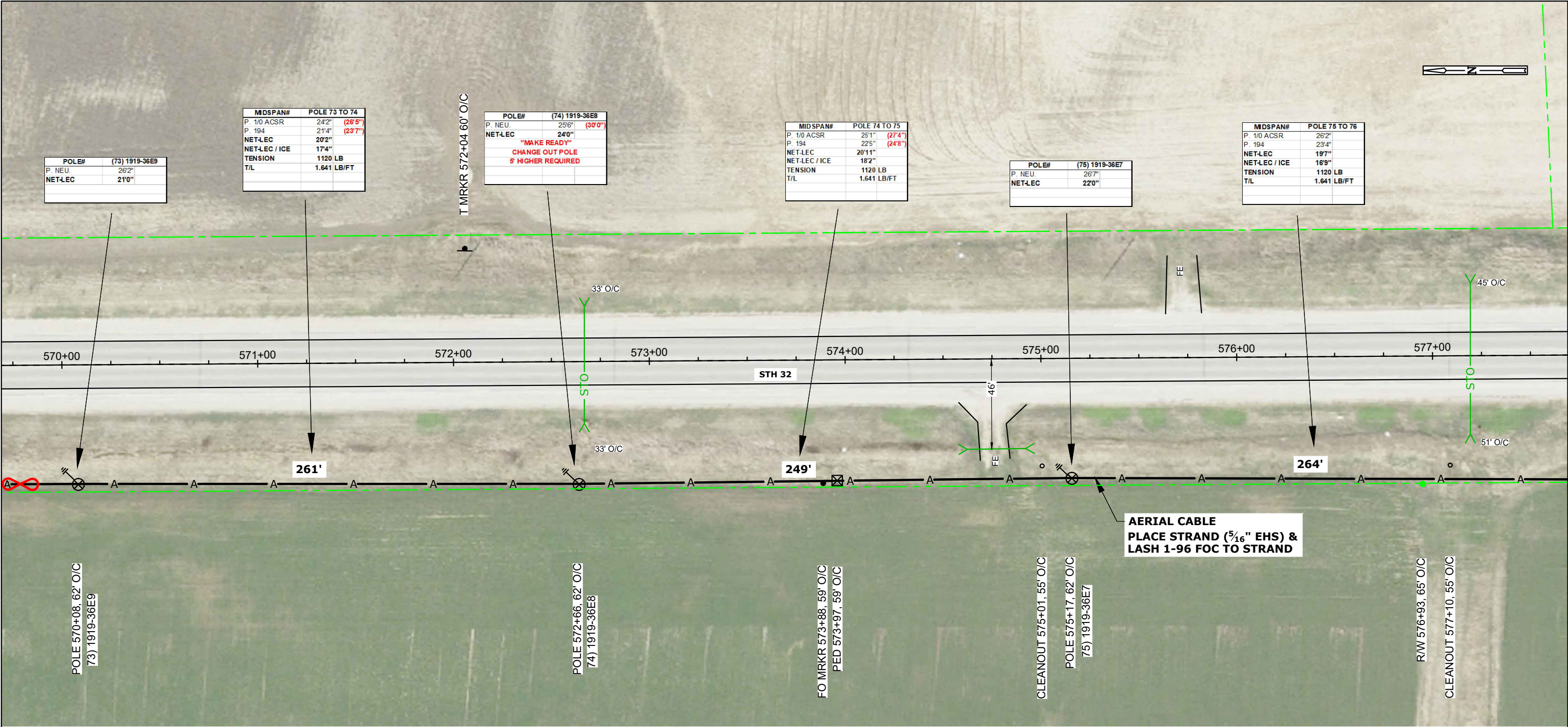
CONT'D PRT 70

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 69 OF 239 MAP NO. FILE NAME: Calumet N18-47 NORTH.dwg P.O.# NL18-47 <table><tr><td>DRAFTING</td><td>BY</td><td>DATE</td></tr><tr><td>BASE</td><td>AL</td><td></td></tr><tr><td>DESIGN</td><td>PC</td><td></td></tr><tr><td></td><td></td><td></td></tr></table> NOT TO SCALE			DRAFTING	BY	DATE	BASE	AL		DESIGN	PC				
DRAFTING	BY	DATE																																												
BASE	AL																																													
DESIGN	PC																																													
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA																

[illegible]

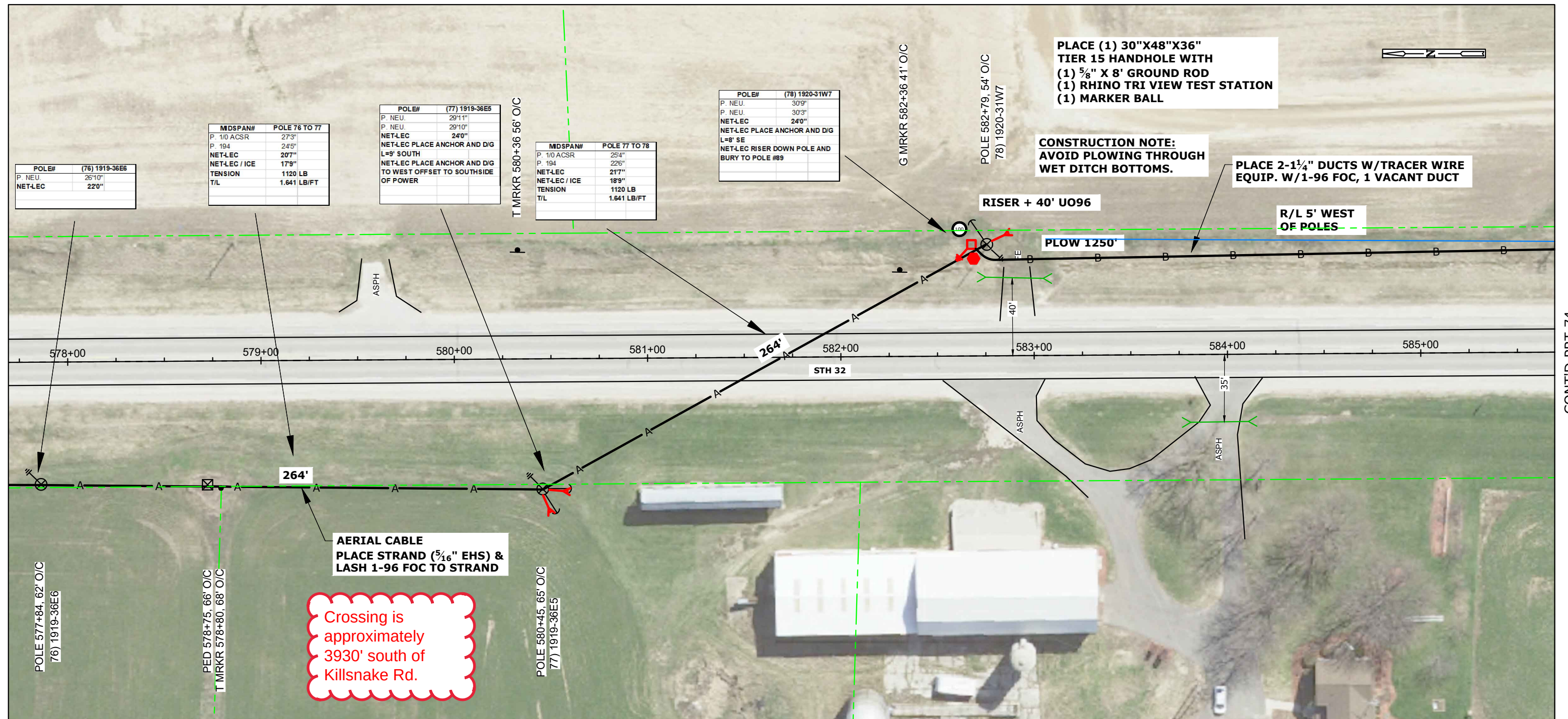
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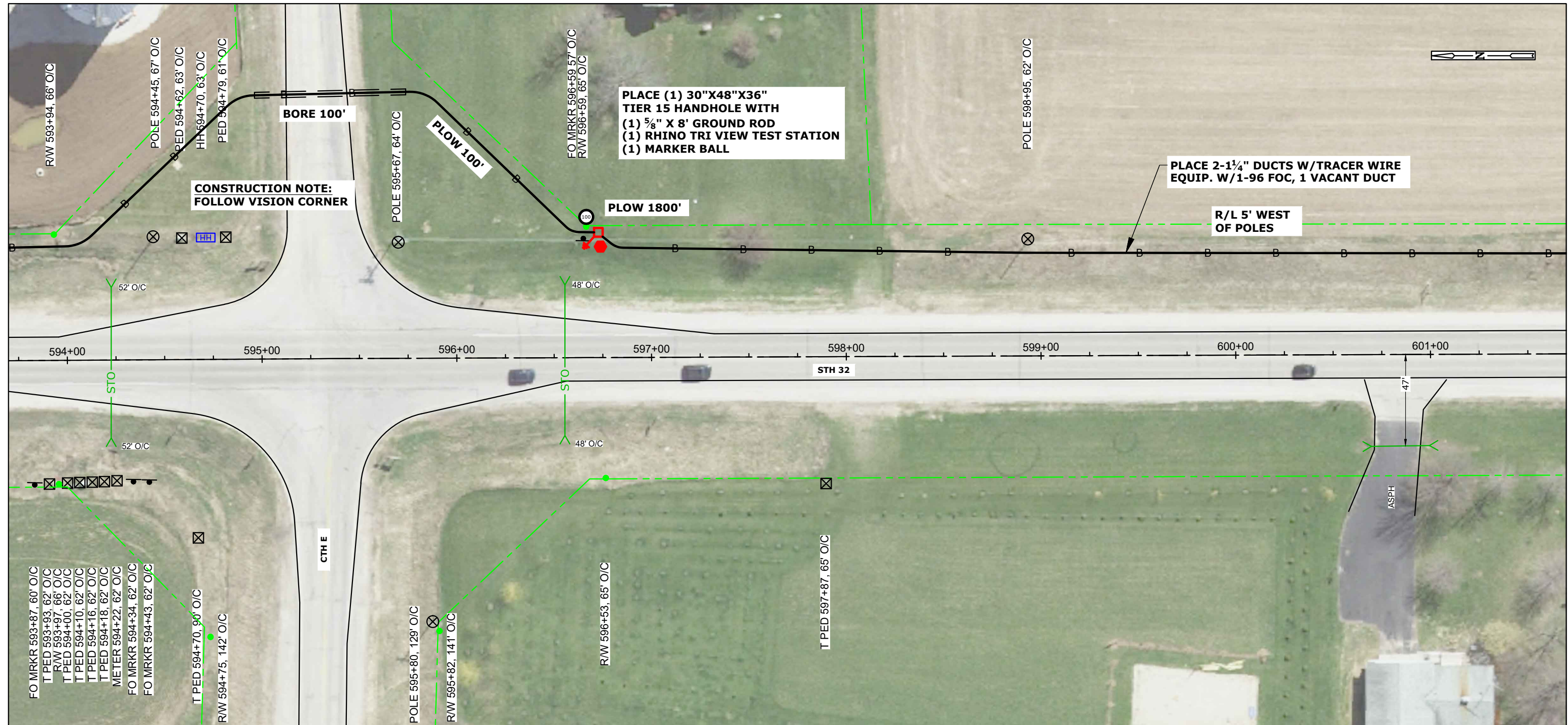
CONT'D PRT 71

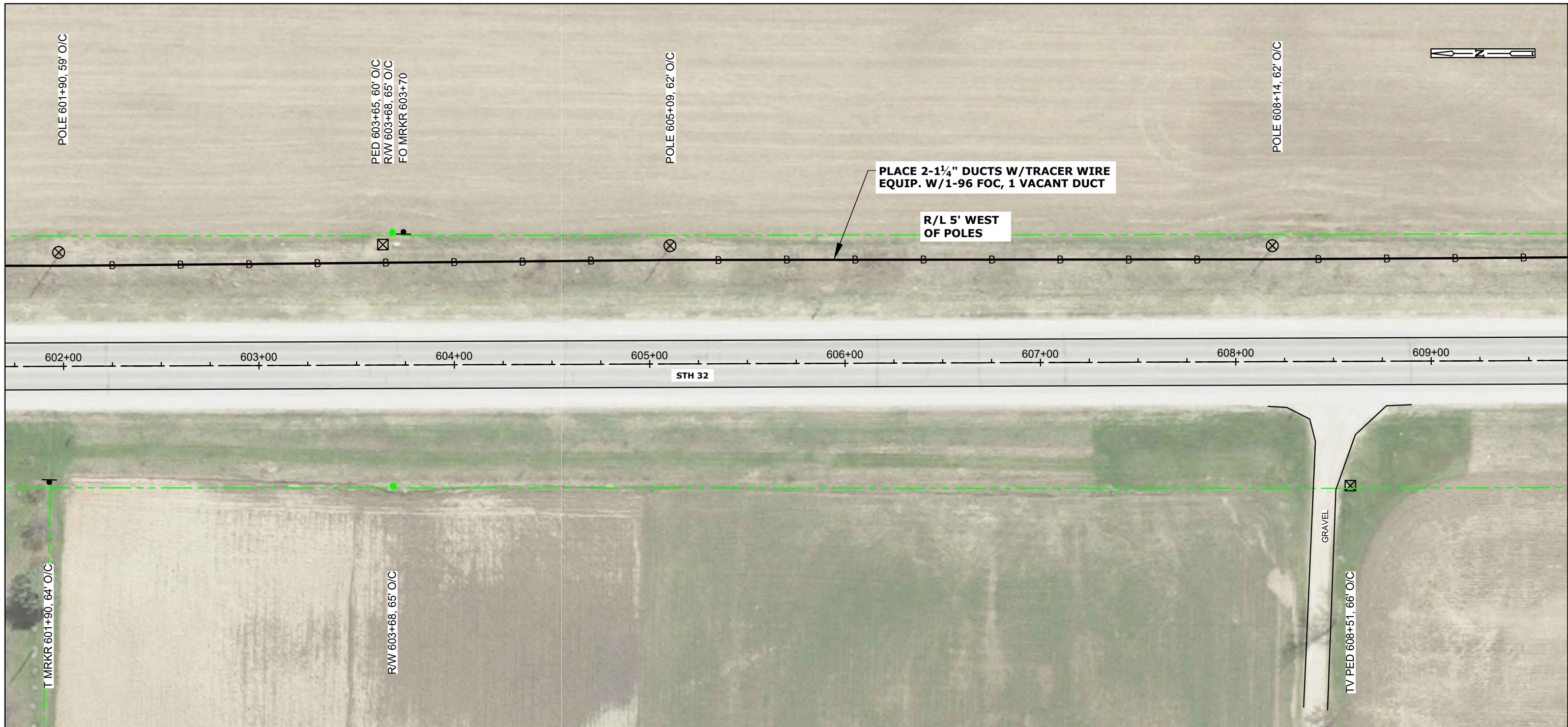


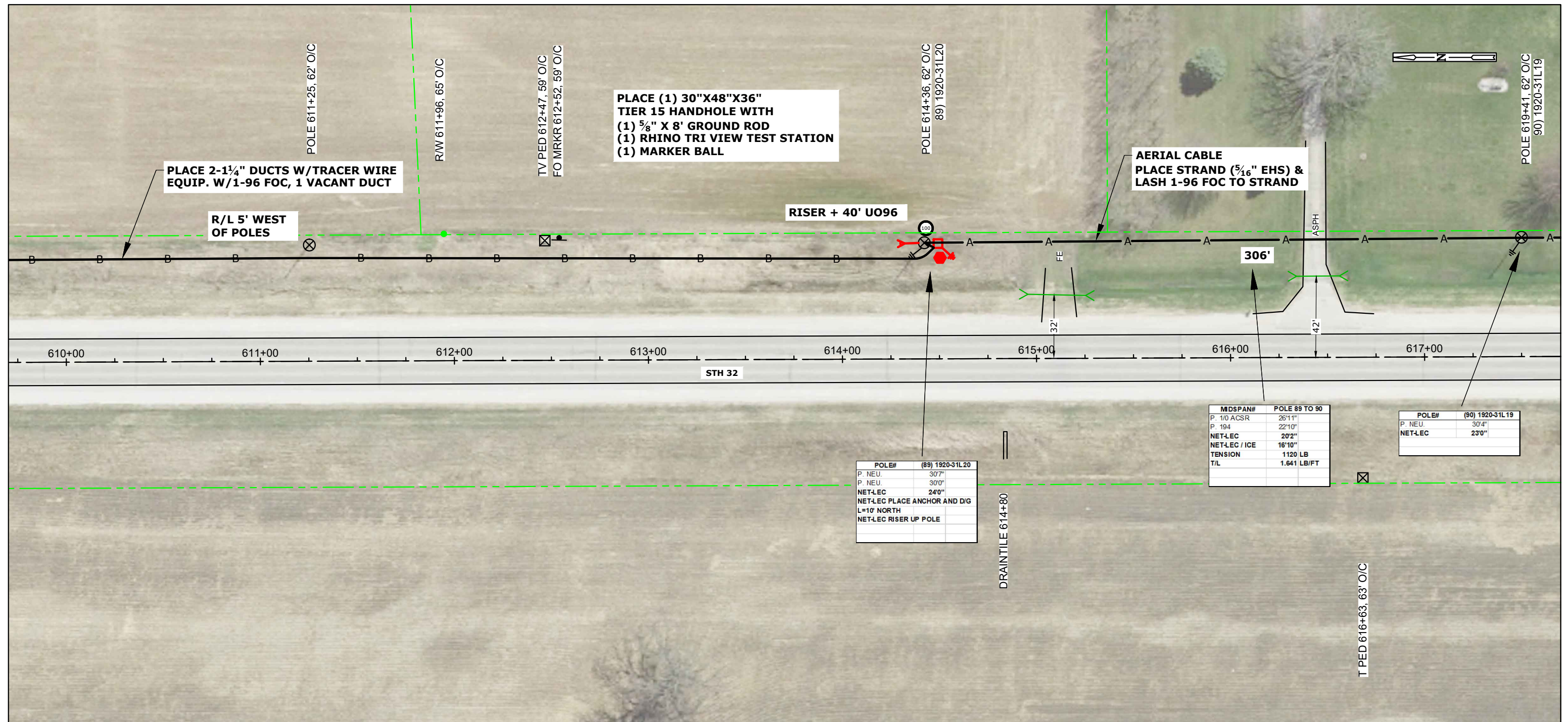
CONT'D PRT 73

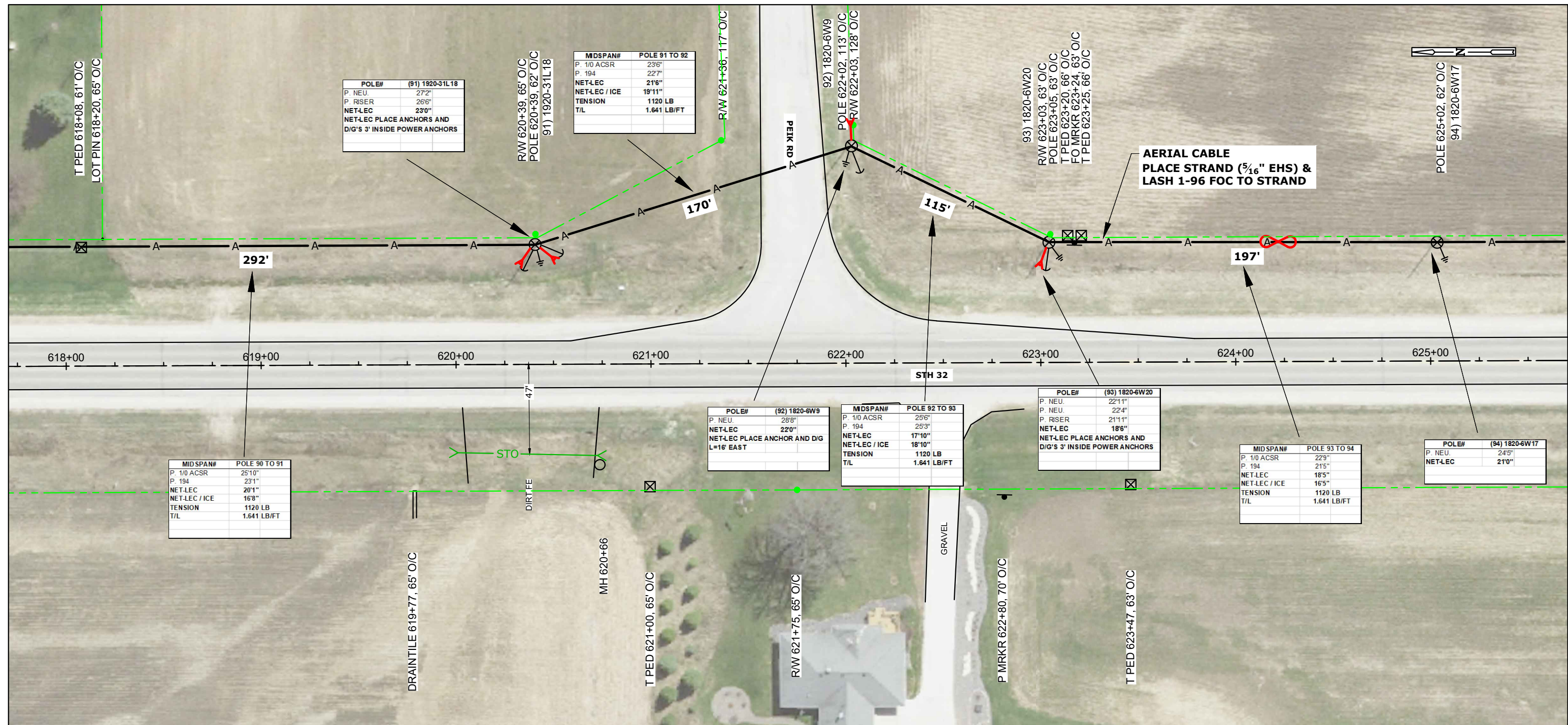
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
AERIAL SLACK																																	SHEET 72 OF 239			
LOOP	569+75										1	2600									9											9				
																																	MAP NO.			
																																	FILE NAME: Calumet N18-47 NORTH.dwg			
																																	P.O.# NL18-47			
																																	DRAFTING		BY	DATE
																																	BASE		AL	
																																	DESIGN		PC	
TOTAL:		####	####	####	####	####	####	####	####	####	1	2600	####	####	####	####	####	####	####	####	9	####	####	####	####	####	####	####	####	####	9	NOT TO SCALE				

[illegible]

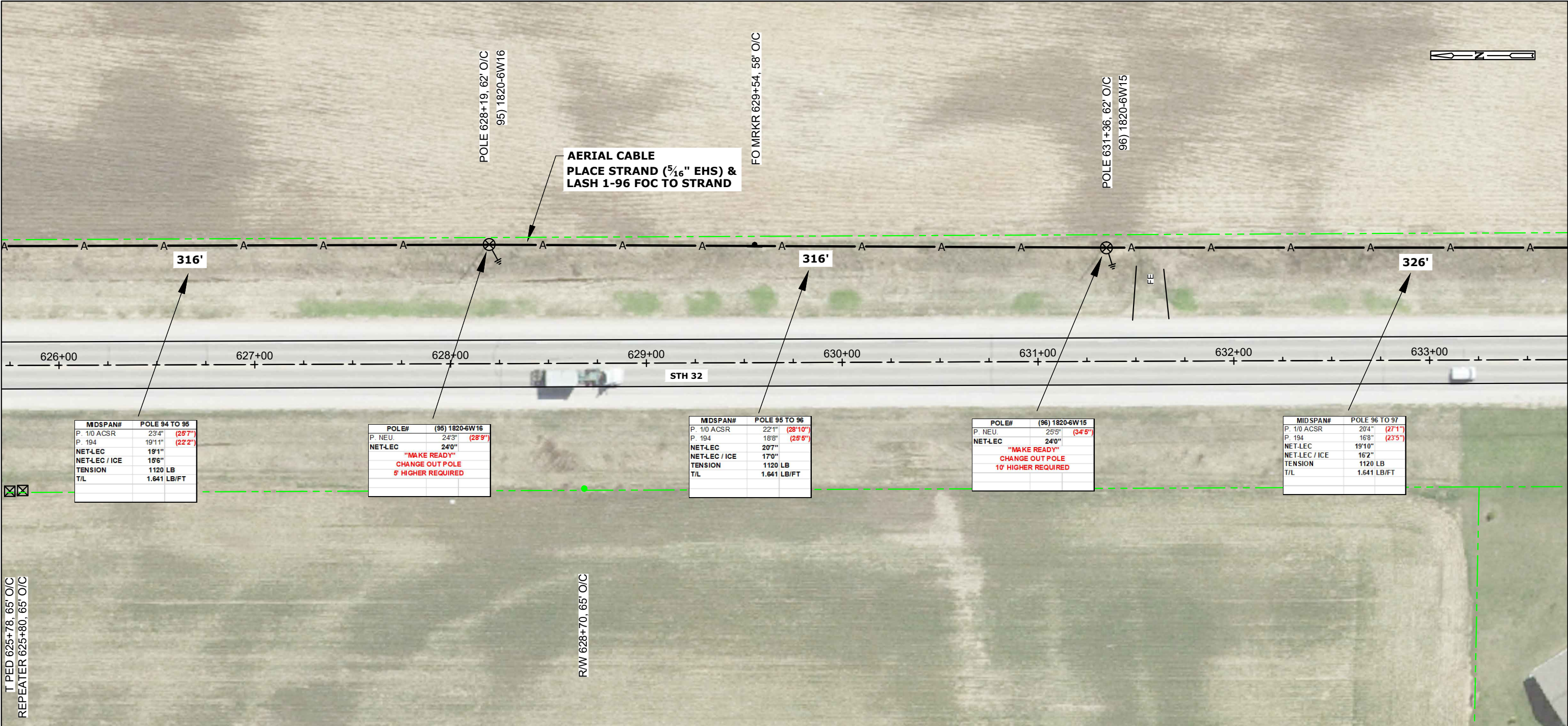
[illegible]

[illegible]

[illegible]

[illegible]

CONT'D PRT 78



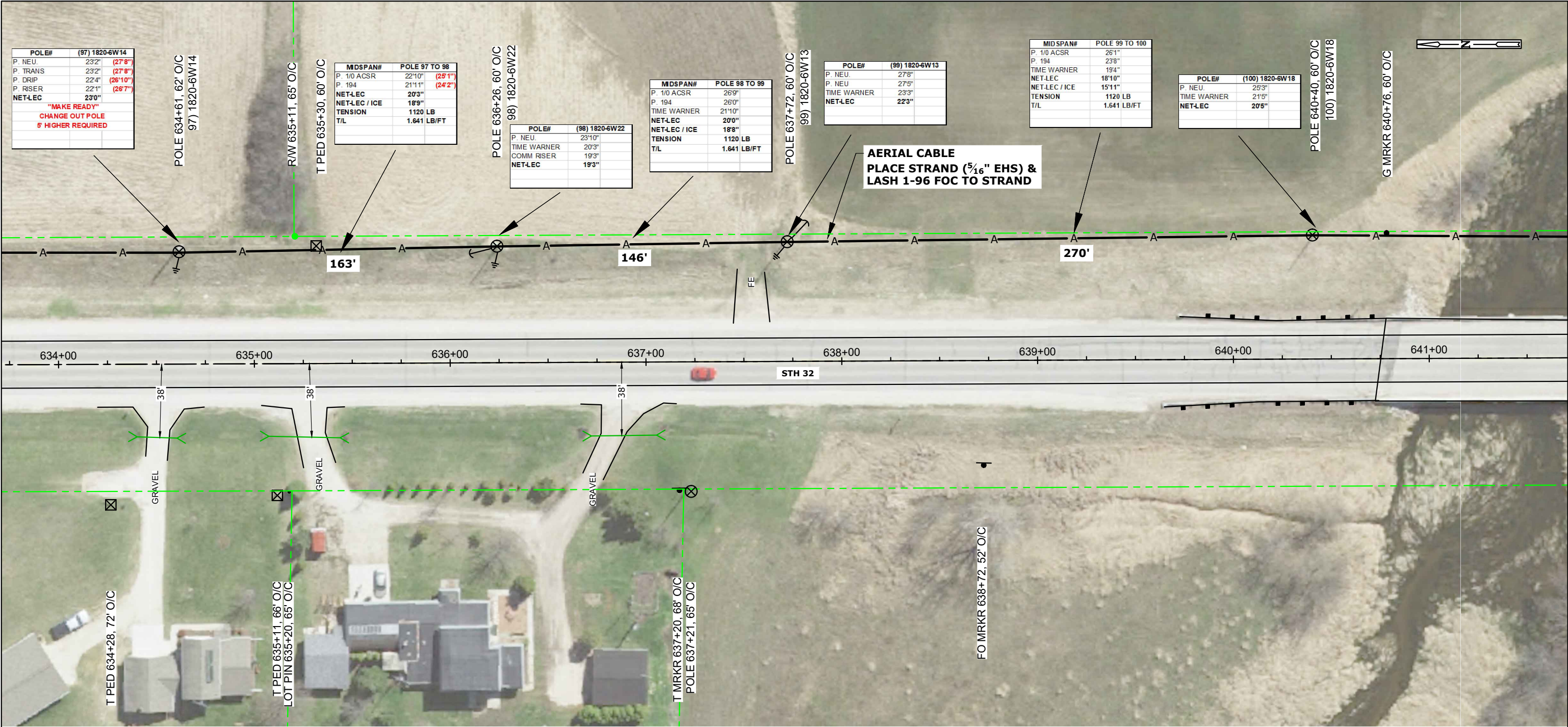
CONT'D PRT 80

T PED 625+78, 65' O/C
REPEATER 625+80, 65' O/C

R/W 628+70, 65' O/C

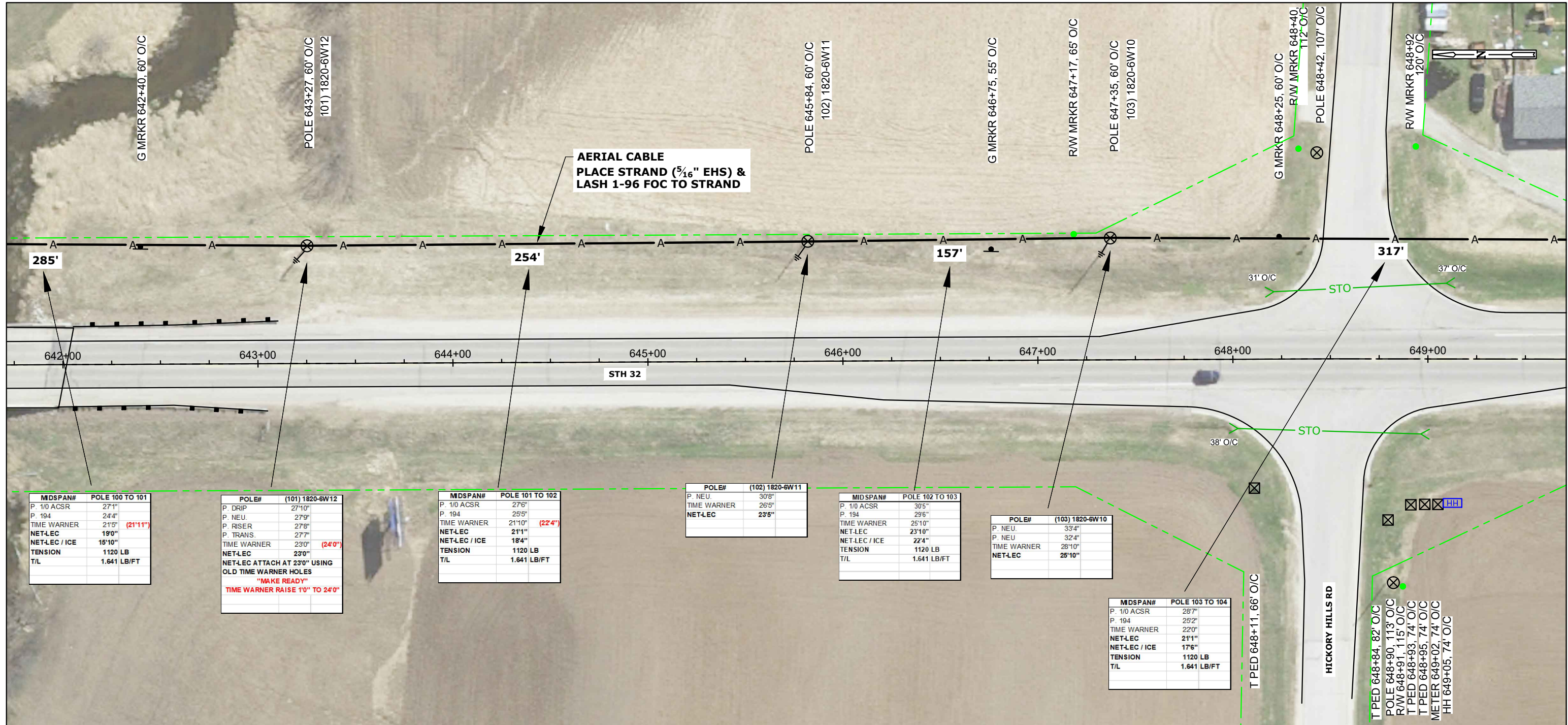
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
																																		SHEET 79 OF 239			
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 NORTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	
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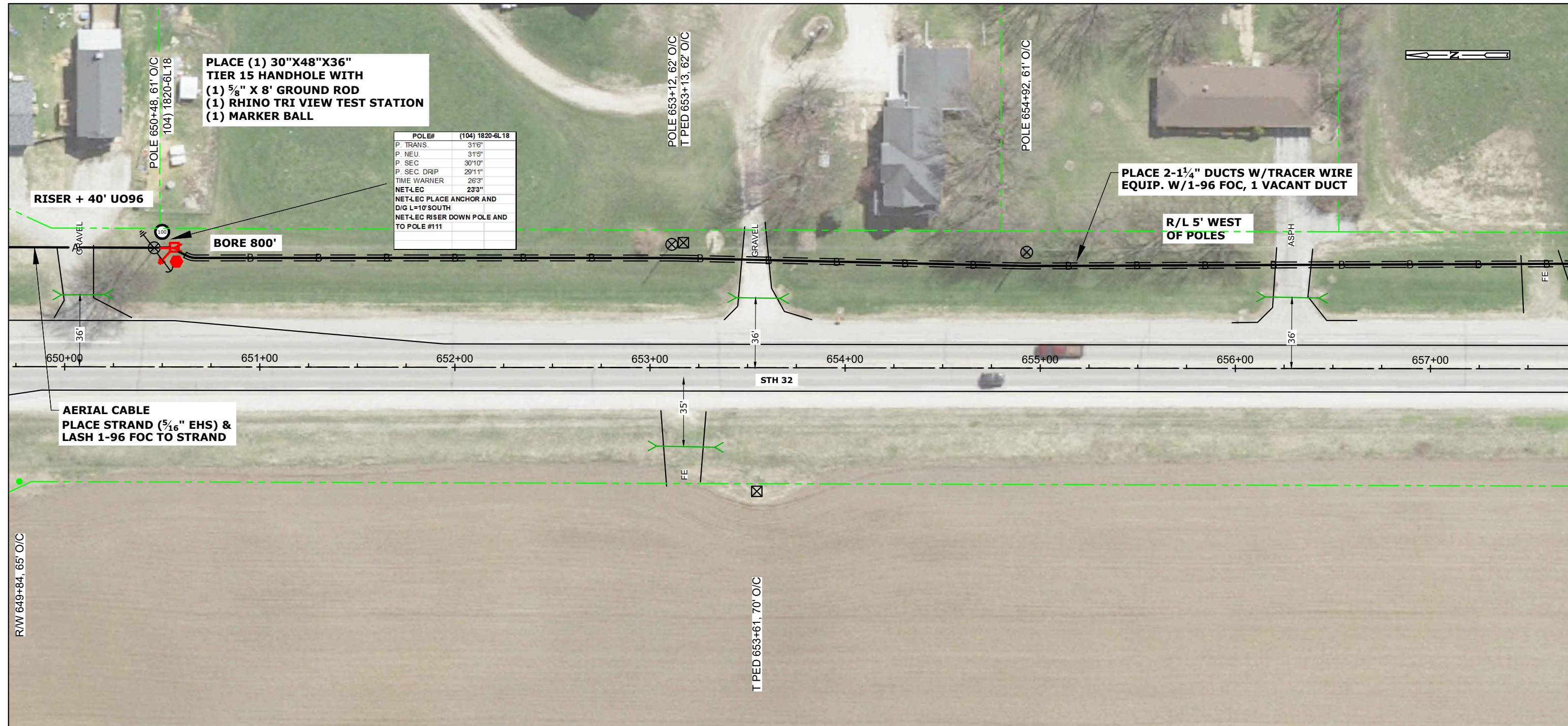
CONT'D PRT 79



CONT'D PRT 81

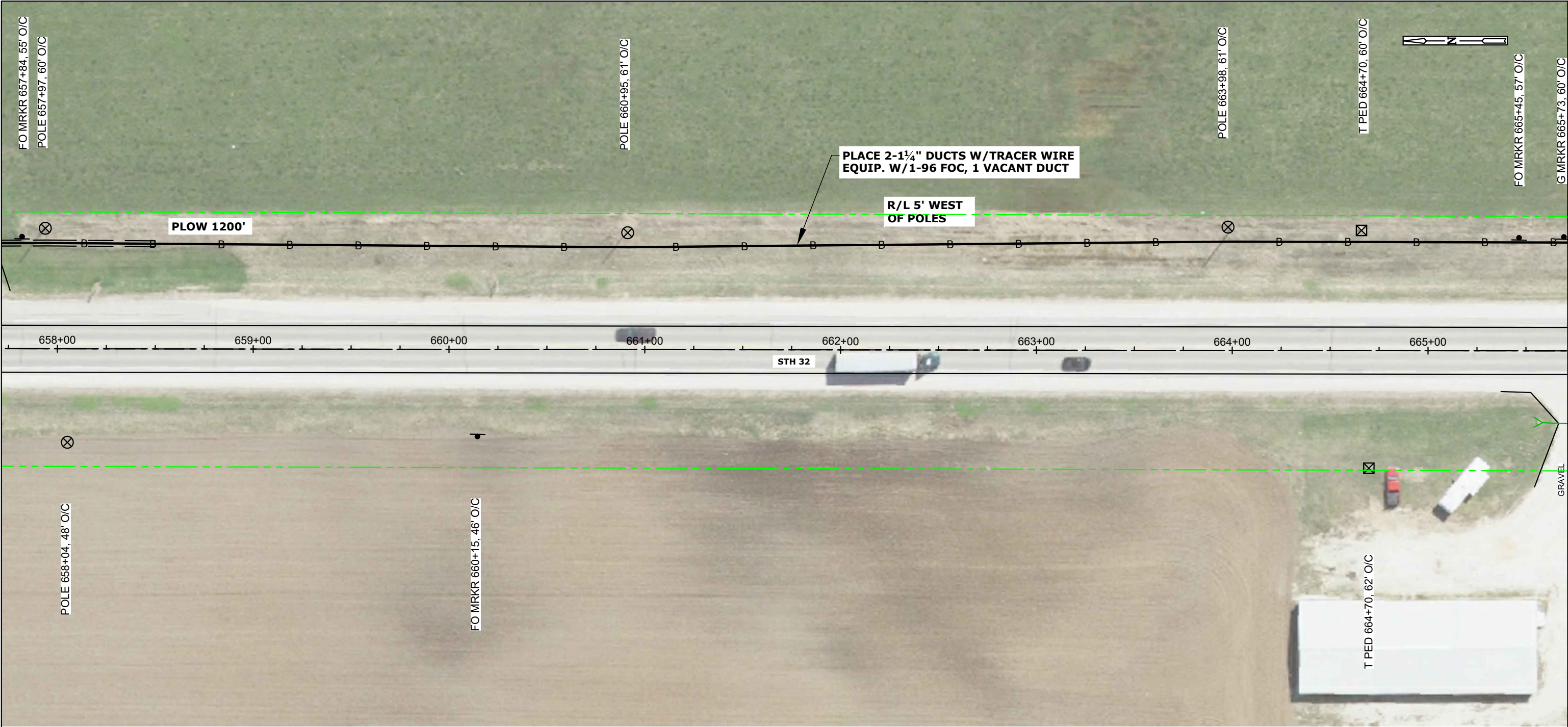
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
																																	SHEET 80 OF 239	

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
HH	650+50	1	1	1	40						1		2650	1	1	3	1					10										11	SHEET <u>82</u> OF <u>239</u>	
																																	MAP NO.	
																																	FILE NAME: Calumet N18-47 NORTH.dwg	
																																	P.O.# NL18-47	
																																	TAB DRAFTING BY DATE	
																																	BASE AL	
																																	DESIGN PC	
																																	BUILT	
TOTAL:		1	1	1	40	####	####	####	####	####	1	####	2650	1	1	3	1	####	####	####	10	####	####	####	####	####	####	####	####	11	ASBUILT		NOT TO SCALE	

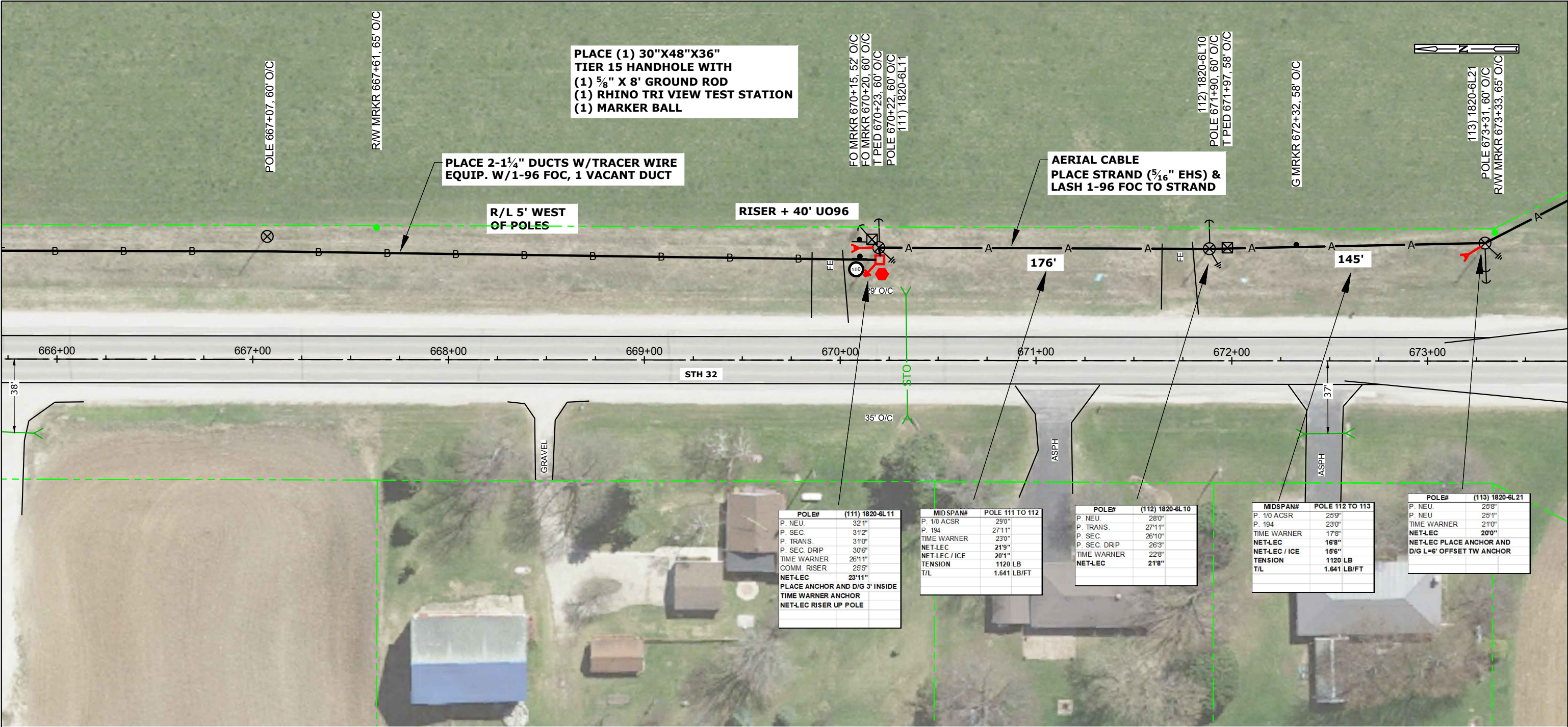
CONT'D PRT 82



CONT'D PRT 84

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 83 OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					

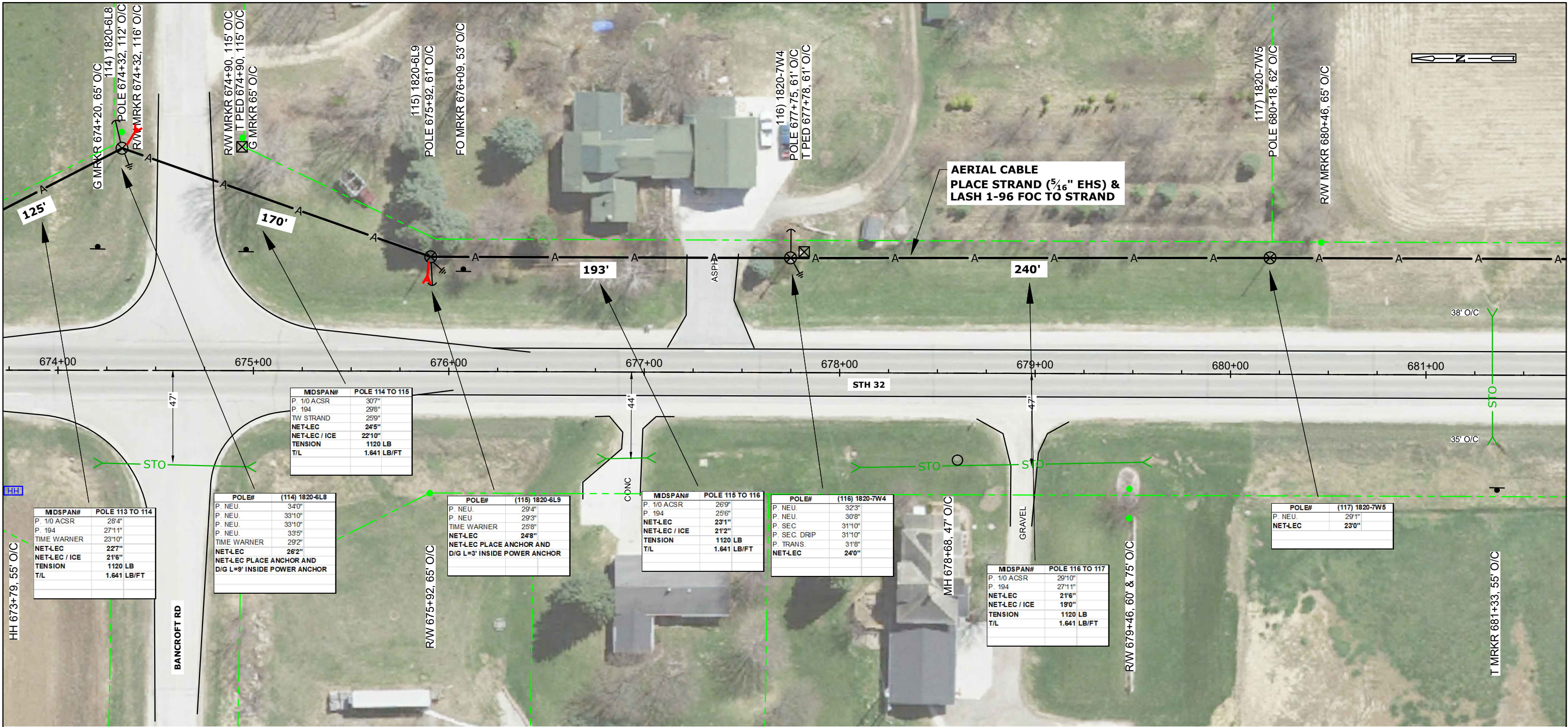
CONT'D PRT 83



CONT'D PRT 85

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
HH	670+25	1	1	1	2040	1200	800			1																						SHEET 84 OF 239			
																																MAP NO.			
																																FILE NAME: Calumet N18-47 NORTH.dwg			
																																P.O.# NL18-47			
																																DRAFTING		BY	DATE
																																BASE		AL	
																																DESIGN		PC	
																																BUILT			
TOTAL:		1	1	1	2040	1200	800	####	####	####	1	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT				
																														NOT TO SCALE					

CONT'D PRT 84

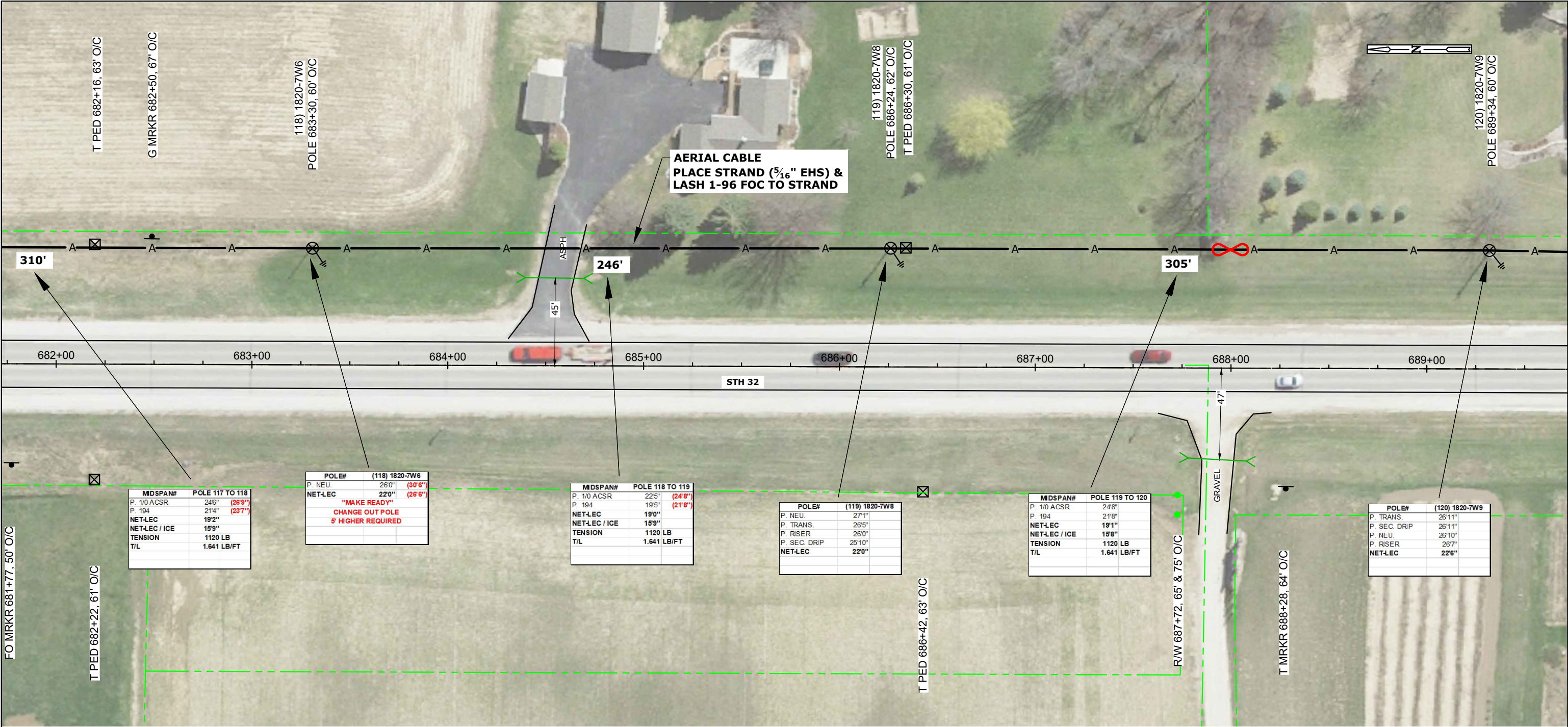


CONT'D PRT 86

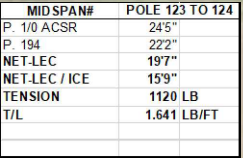
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT					MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES			NSIGHT TELSOURCES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 85 OF 239		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA							

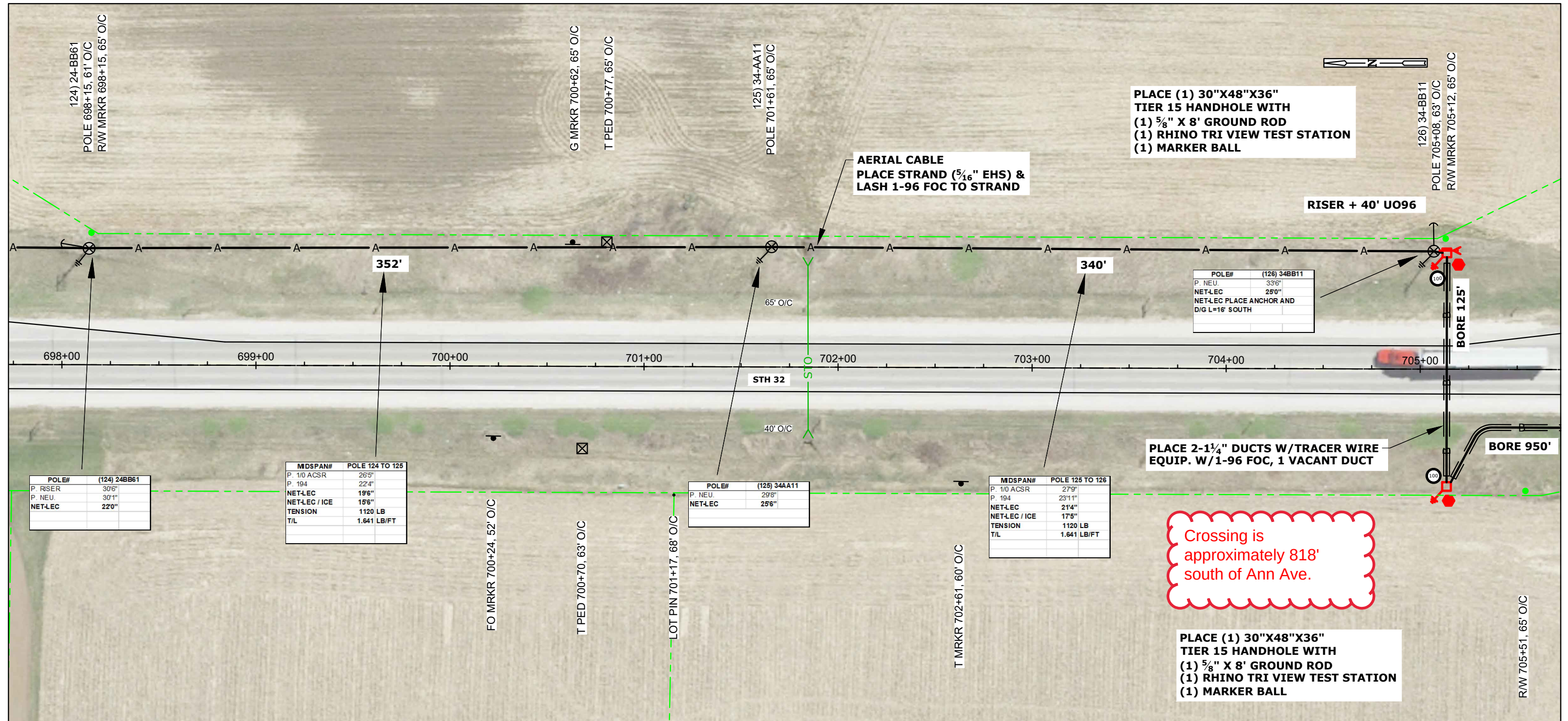
CONT'D PRT 85

CONT'D PRT 87

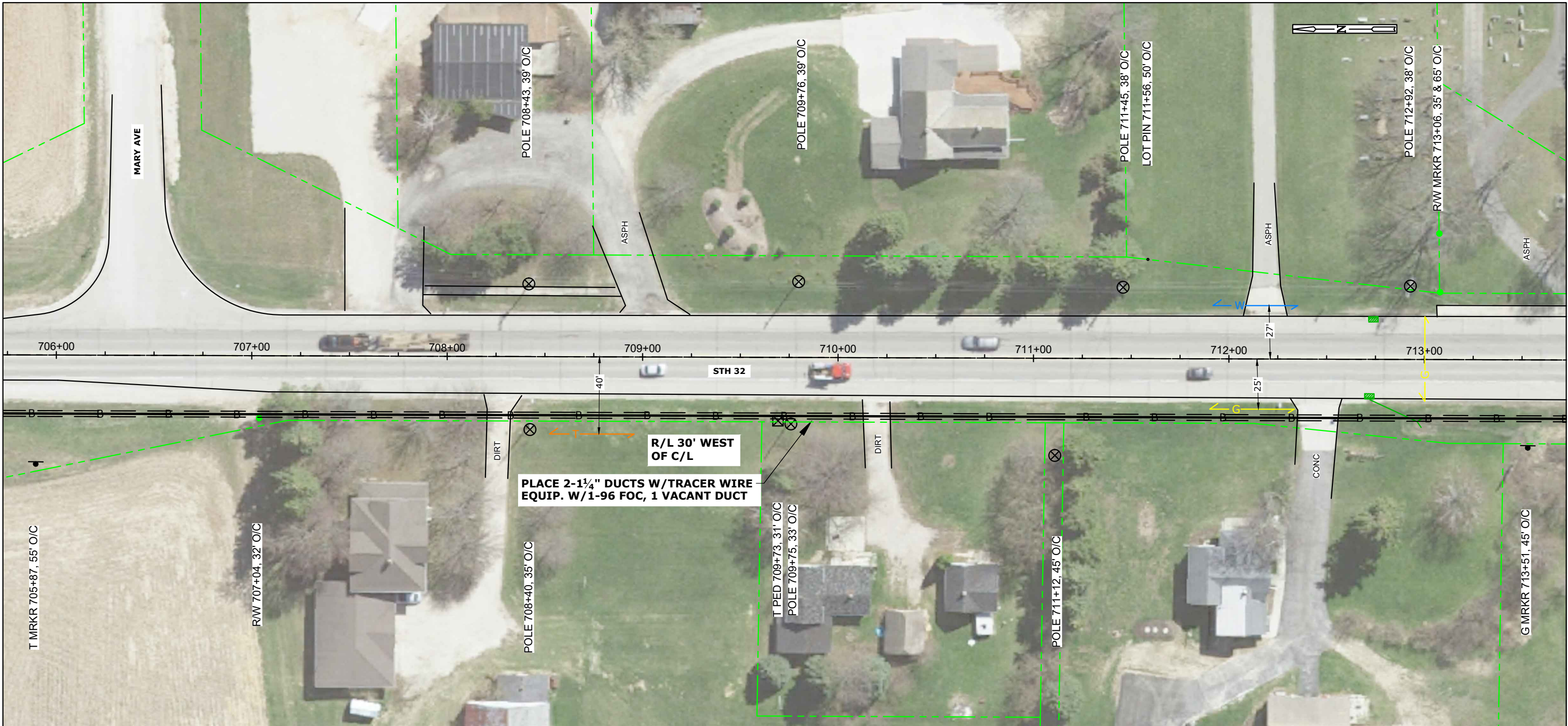


STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA						
AERIAL SLACK																																			
LOOP	688+00				40						1	1825		4	4	3	4				8											9			

[illegible]

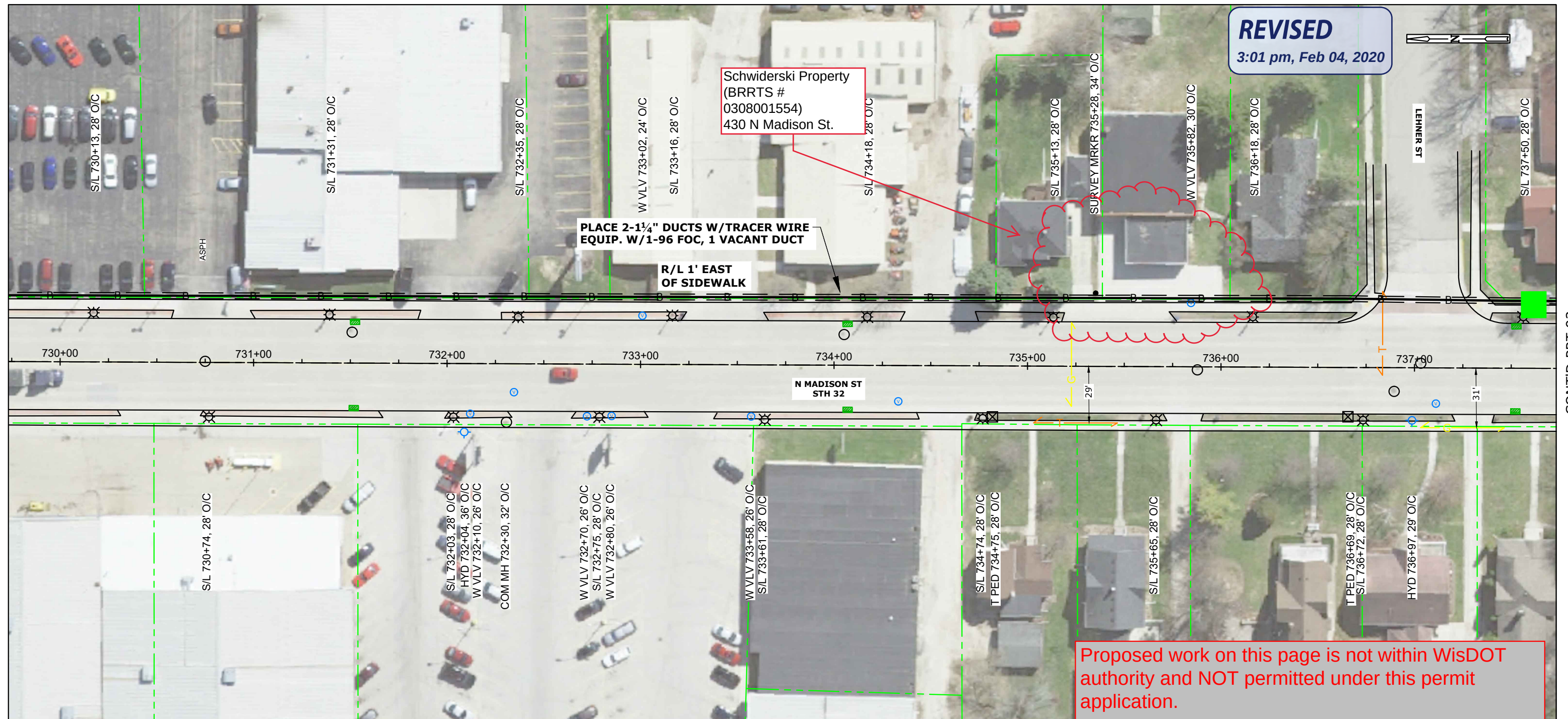
[illegible]

CONT'D PRT 88



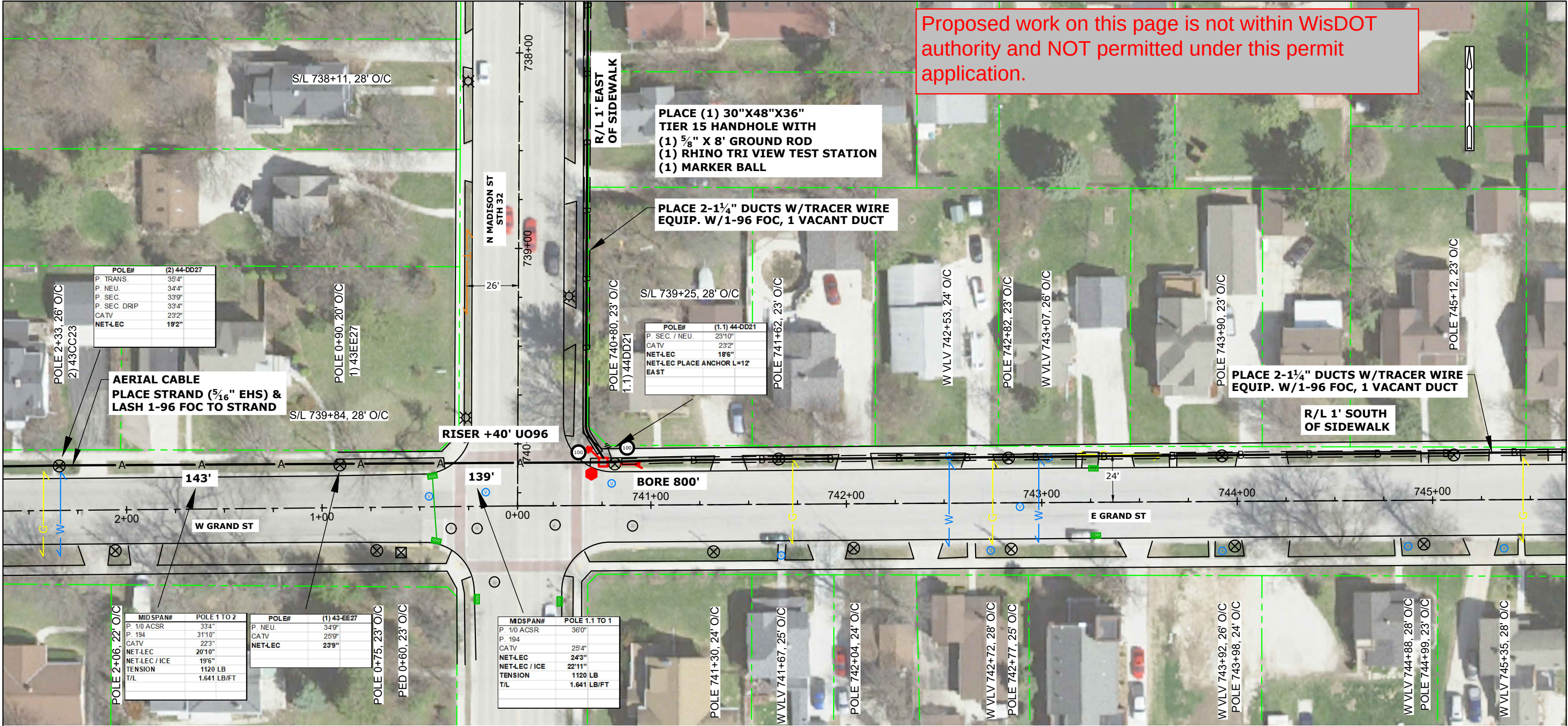
CONT'D PRT 90

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT						MISC.						WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5" EHS)	PE 1-3 (5" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN									
																																SHEET 92 OF 239								
																																MAP NO.								
																																FILE NAME: Calumet N18-47 NORTH.dwg								
																																P.O. # NL18-47								
																																DRAFTING		BY		DATE				
																																BASE		AL						
																																DESIGN		PC						
TOTAL:			####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT				NOT TO SCALE			

CONT'D PRT 93A

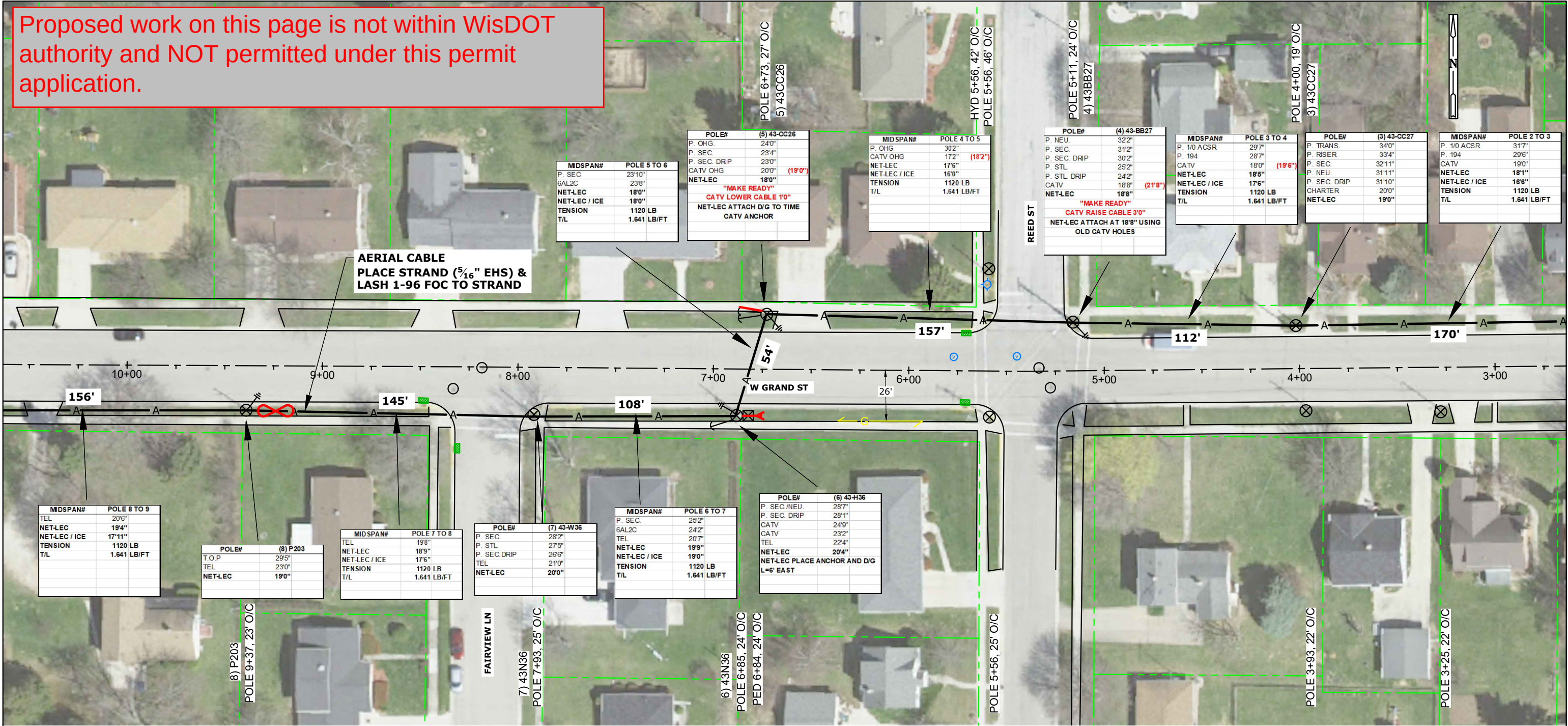


CONT'D PRT 94

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE	BMSC (100)	PMBT (96) 150'	CO 96 (⁵ / ₁₆ "EHS)	PE 1-3 (⁵ / ₁₆ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5	WHM	PM 21	EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
HH	740+25	1	1	1	1400		1400		2																			SHEET 93 OF 239					
																												MAP NO.					
																												FILE NAME: Calumet N18-47 NORTH.dwg					
																												P.O.# NL18-47					
																												DRAFTING			BY	DATE	
																												BASE			AL		
																												DESIGN			PC		

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CONT'D PRT 93B



CONT'D PRT 93

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES		NSIGHT TELSOURCES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 93A OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA						
AERIAL																																			
SLACK																																			
LOOP	9+25				40						1	1025	3	2	3	3				3										8					
																			</																

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**PLACE (1) 30"X48"X36"
TIER 15 HANDHOLE WITH
(1) 5/8" X 8' GROUND ROD
(1) RHINO TRI VIEW TEST STATION
(1) MARKER BALL**

POLE#	(17) 43-CC35
CROSS ARM	28'7"
P. SEC.	28'0"
P. SEC. DRIP	27'10"
CATV	23'9"
NET-LEC	22'9"

POLE#	(18) 43-AA46
CROSS ARM	30'3"
P. SEC.	29'6"
P. SEC. DRIP	29'2"
P. STL	26'0"
P. STL DRIP	25'6"
CATV	22'6"
NET-LEC	20'6"

POLE#	(19) 43-BB46
P. TRANS	25'10"
CROSS ARM	26'4"
P. SEC.	25'8"
P. SEC. DRIP	25'0"
CATV	22'4"
NET-LFC	18'4"
"MAKE READY"	
CATV LOWER CABLE 1'0"	
NET-LEC PLACE RISER ON POLE	
NET-LEC PLACE ANCHOR AND D/G	
L=6' SE	

**AERIAL CABLE
PLACE STRAND (5/16" EHS) &
LASH 1-96 FOC TO STRAND**

RISER +40' U096

BORE 975'

MDSPAN#	POLE 16 TO 17
P. SEC.	28'4"
2WPCU	26'9"
CATV	21'9"
NET-LEC	20'11"
NET-LEC / ICE	19'10"
TENSION	1120 LB
T/L	1.641 LB/FT

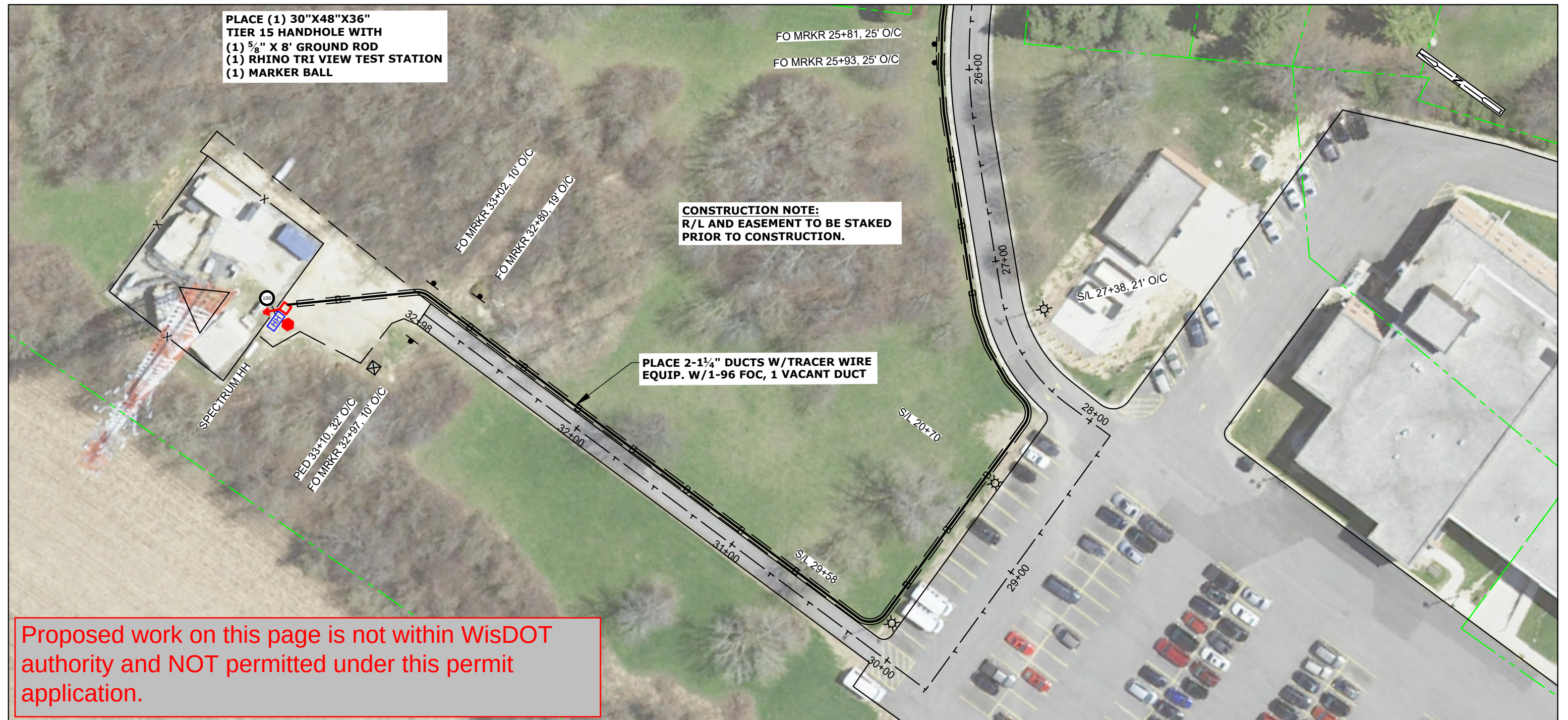
MDSPAN#	POLE 17 TO 18
P. SEC.	28'0"
2WPUCU	26'6"
CATV	22'2"
NET-LEC	21'3"
NET-LEC / ICE	20'3"
TENSION	1120 LB
T/L	1.641 LB/FT

MDSPAN#	POLE 18 TO 19
P. SEC.	26'2"
2WPCU	24'0"
CATV	20'6" (20'0")
NET-LEC	18'8"
NET-LEC / ICE	17'5"
TENSION	1120 LB
T/L	1.641 LB/FT

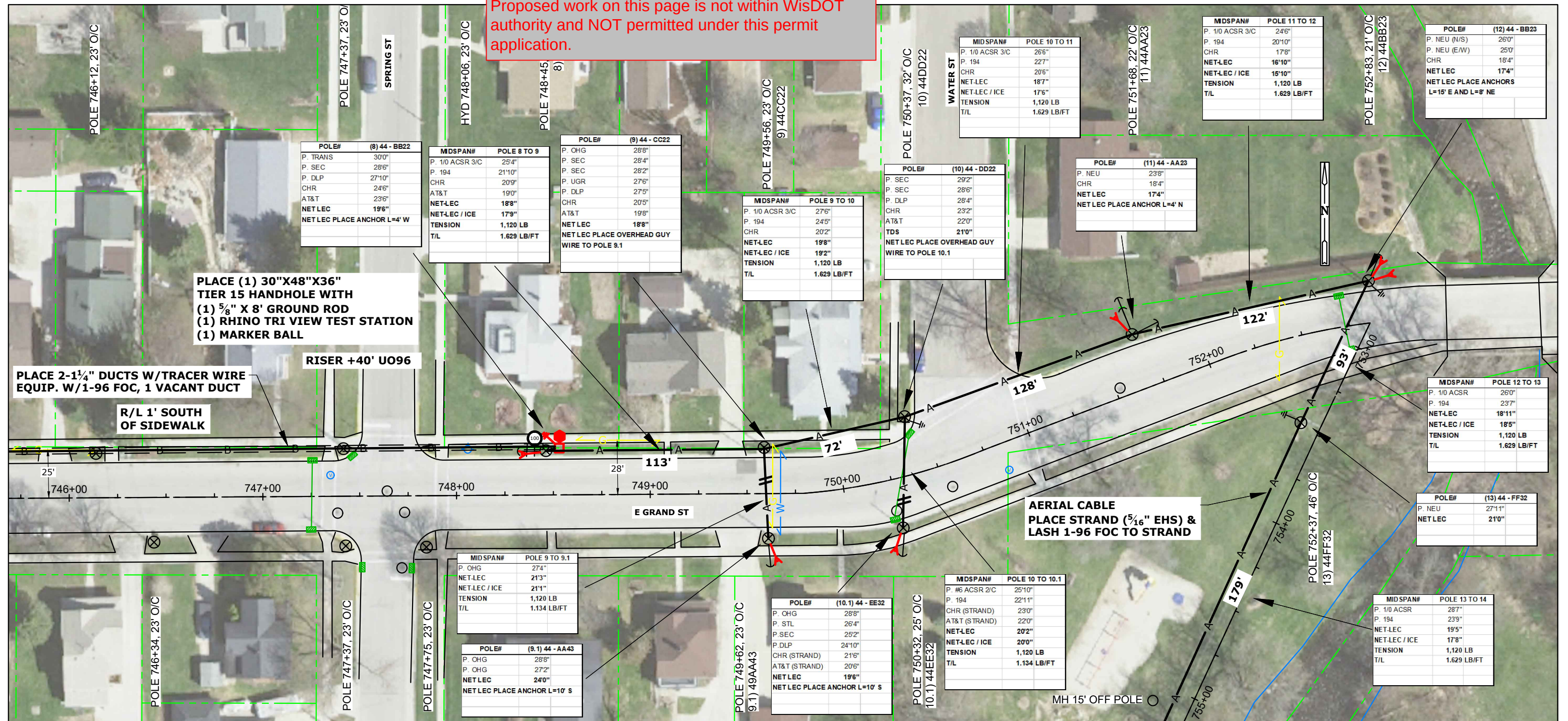
**PLACE 1-1¼" DUCT W/TRACER WIRE
EQUIP. W/1-96 FOC, 1 VACANT DUCT**

CONT'D PRT 93D

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[illegible]

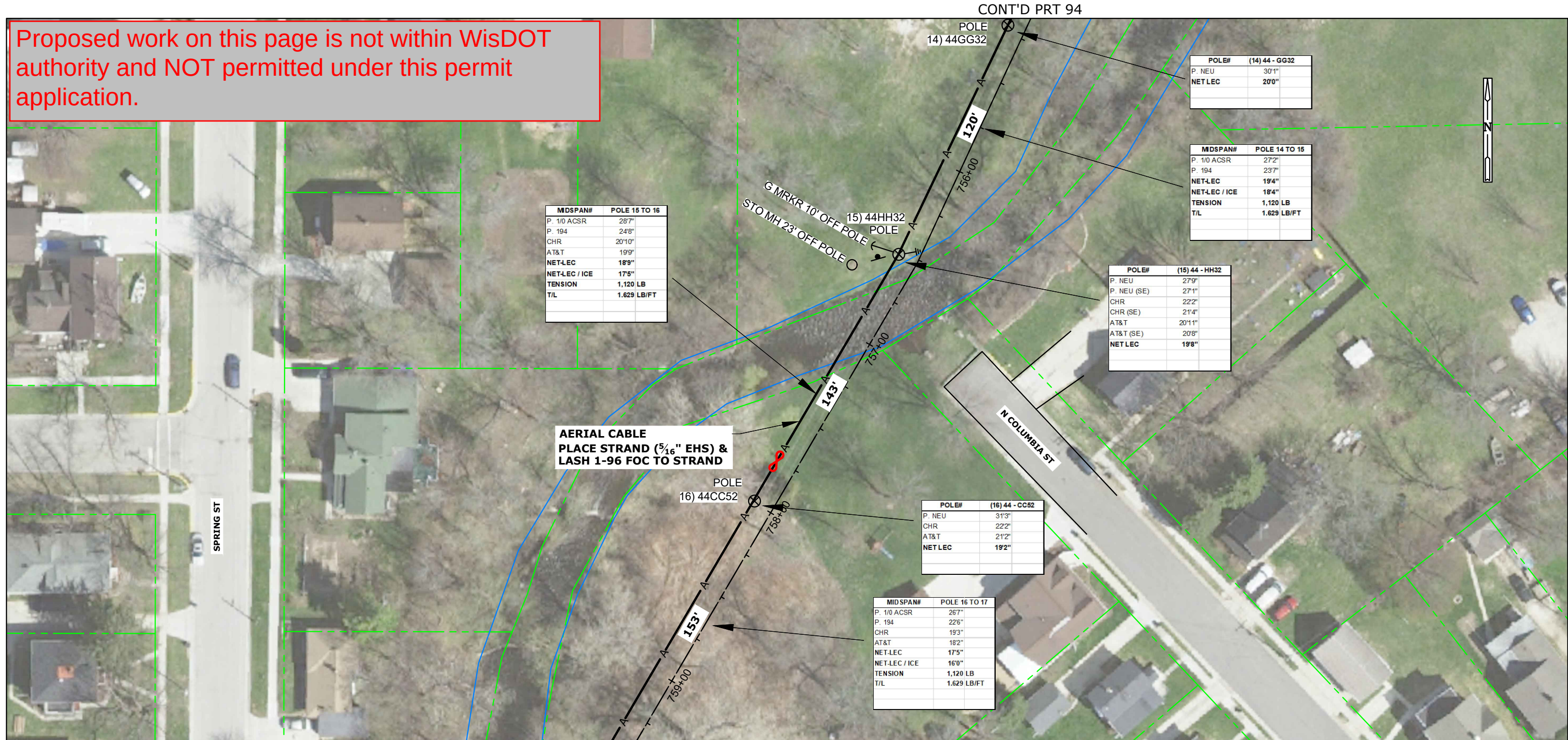
Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.



CONT'D PRT 95

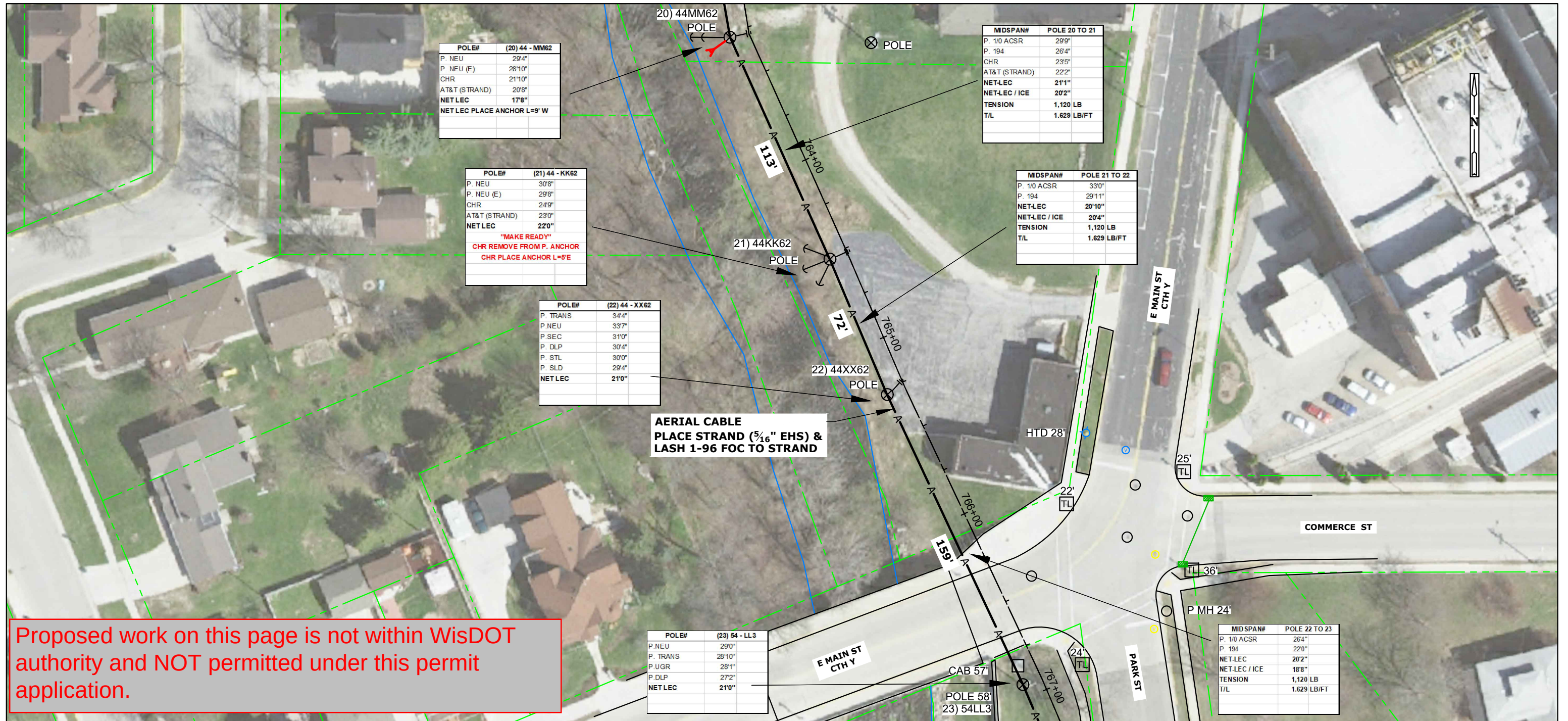
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 94 OF 239		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				
HH	748+50	1	1	1	800		800				1																							

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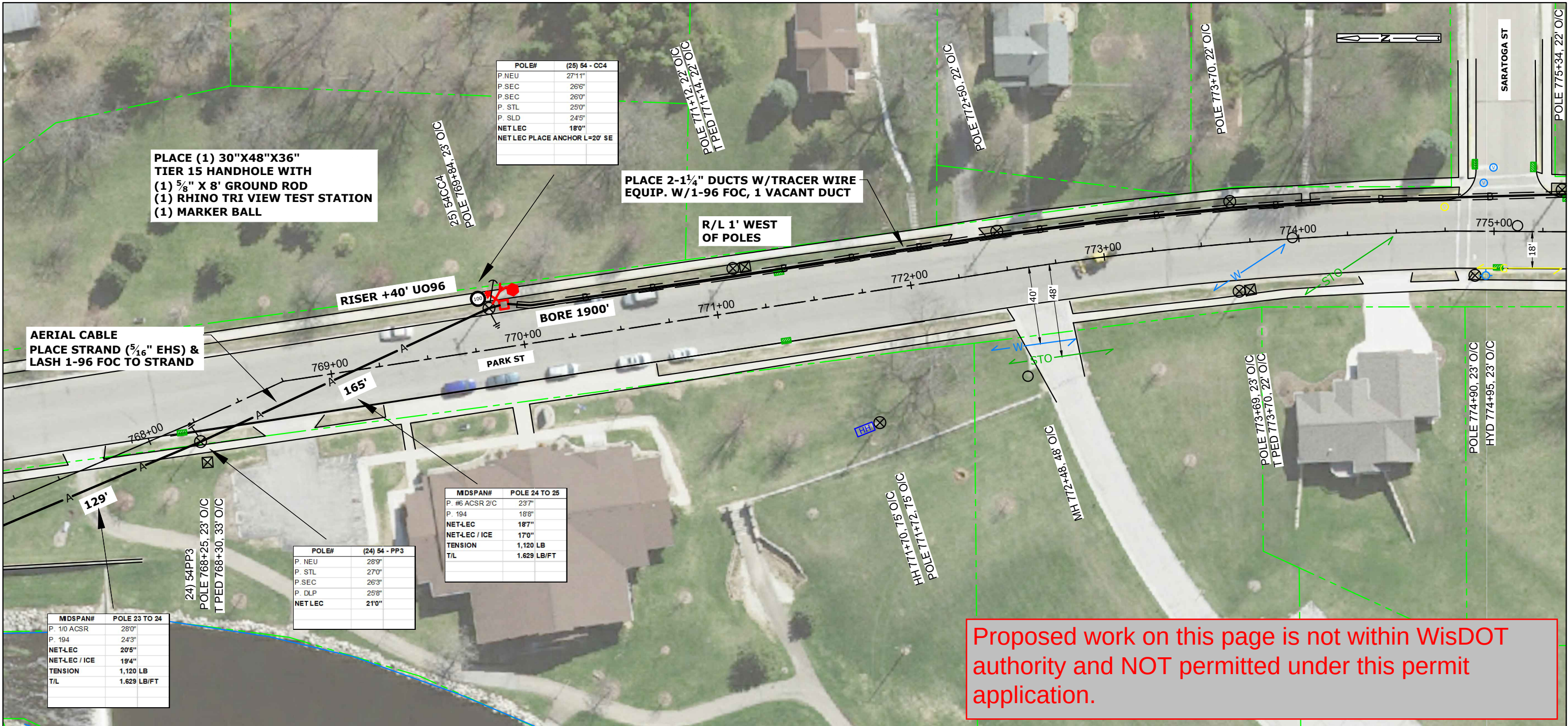
CONT'D PRT 96

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL								REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 95 OF 239				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{7}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21						EPA
AERIAL																																		
SLACK																																		
LOOP	757+75				40							1	950	6	6	3	6					5	100											10



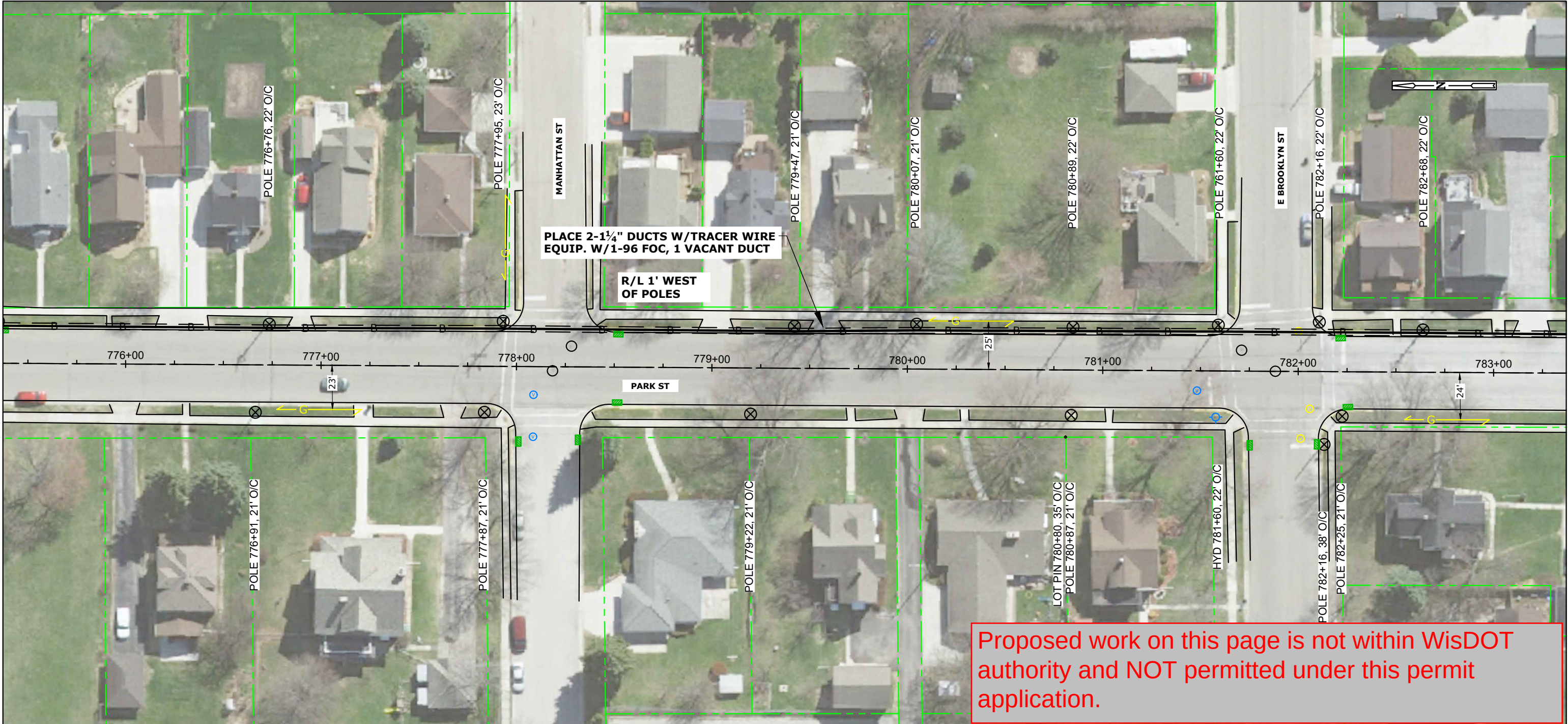
Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 97 OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				
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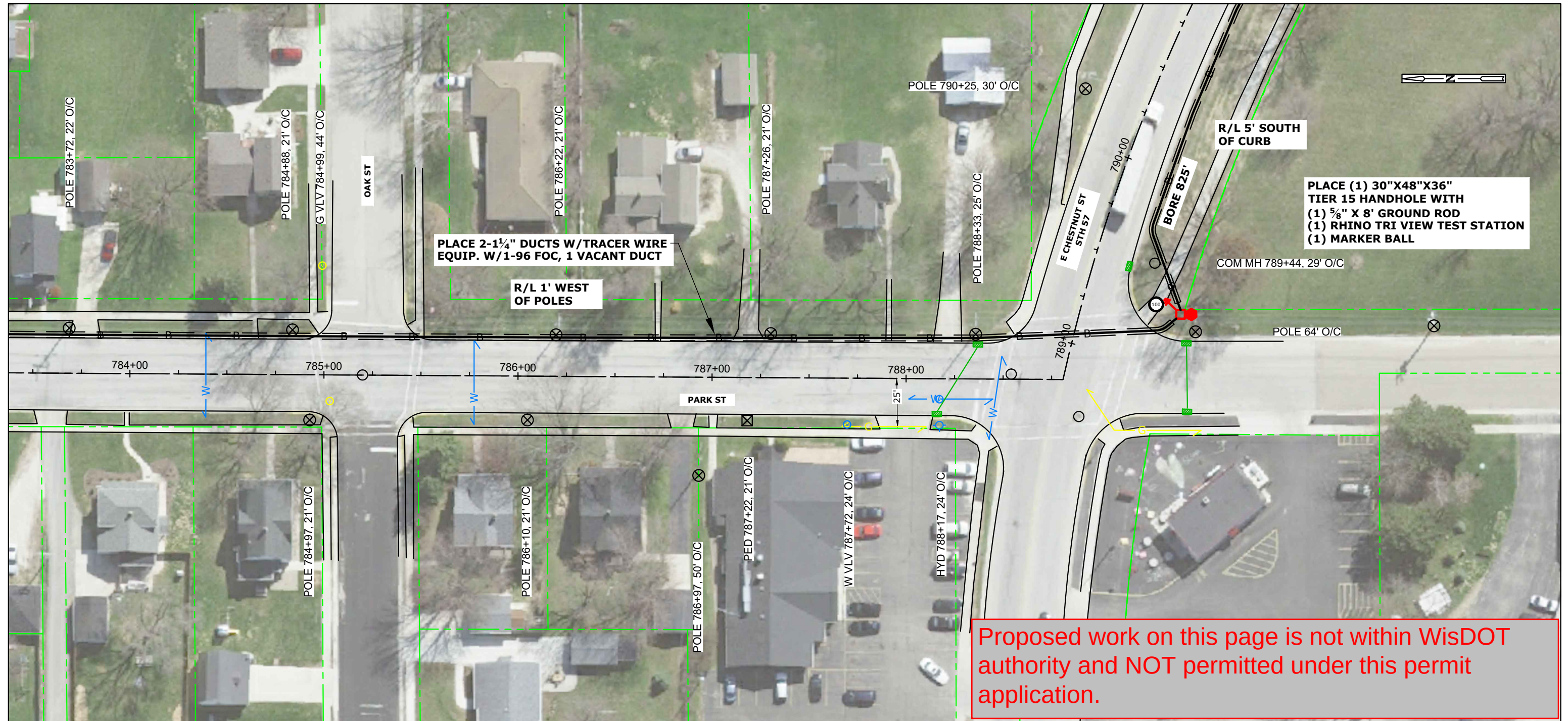
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE	BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
HH	770+00	1	1	1	40					1		1225	3	3	3	3			7											10	SHEET 98 OF 239		
																															MAP NO.		
																															FILE NAME: Calumet N18-47 NORTH.dwg		
																															P.O.# NL18-47		
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CONT'D PRT 98



CONT'D PRT 100

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Connecting Highway Limits end.

POLE#	(1) 54 - MM64
P. OHG	28'6"
P. OHG	26'10"
P. DOWNGUY	26'4"
NET-LEC	220"
NET-LEC PLACE ANCHOR L=12' NW	

MDSPAN#	POLE 1 TO 2
P. OHG	28'6"
NET-LEC	227"
NET-LEC / ICE	21'4"
TENSION	1120 LB
T/L	1.629 LB/FT

**AERIAL CABLE
PLACE STRAND (5/16" EHS) &
LASH 1-96 FOC TO STRAND**

RISER +40' U096

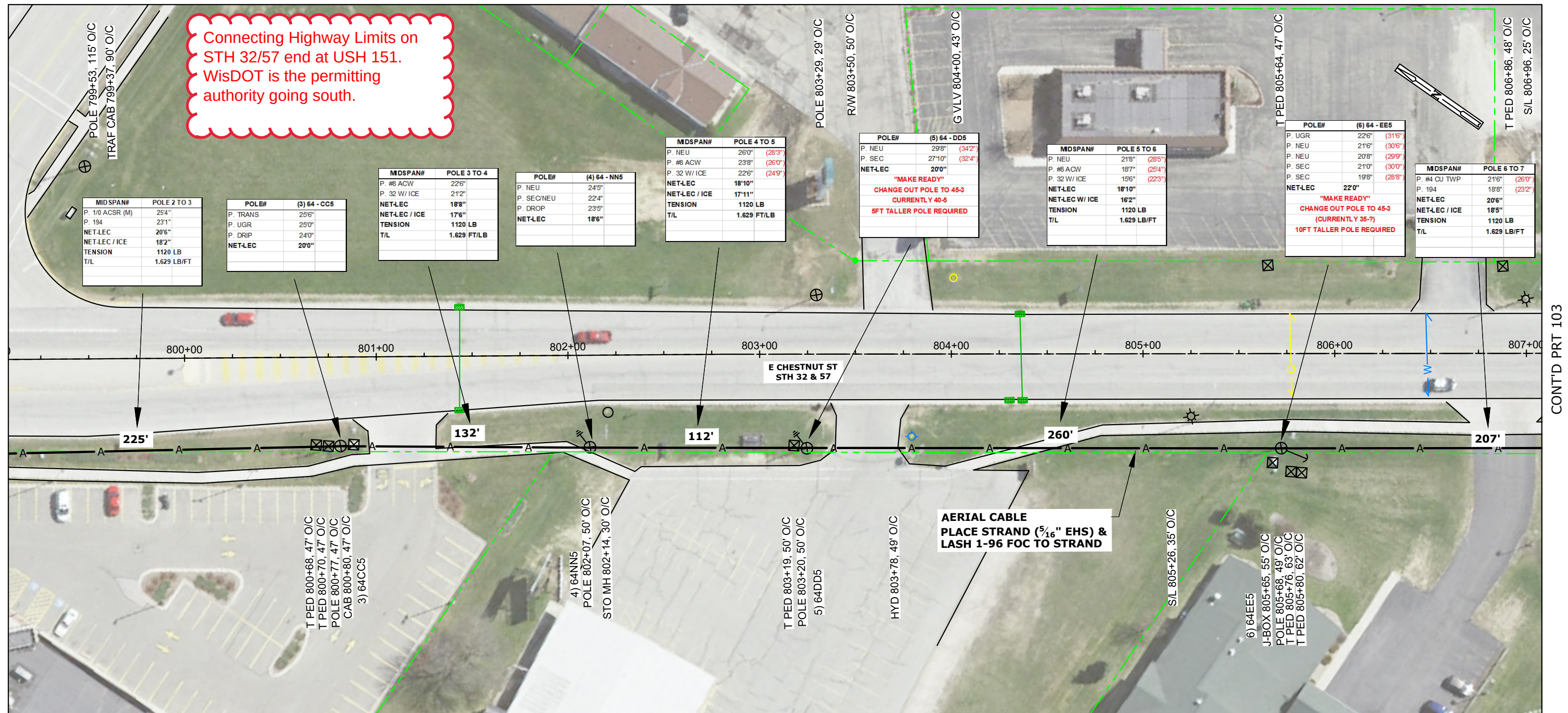
**PLACE 2-1¼" DUCTS W/TRACER WIRE
EQUIP. W/1-96 FOC, 1 VACANT DUCT**

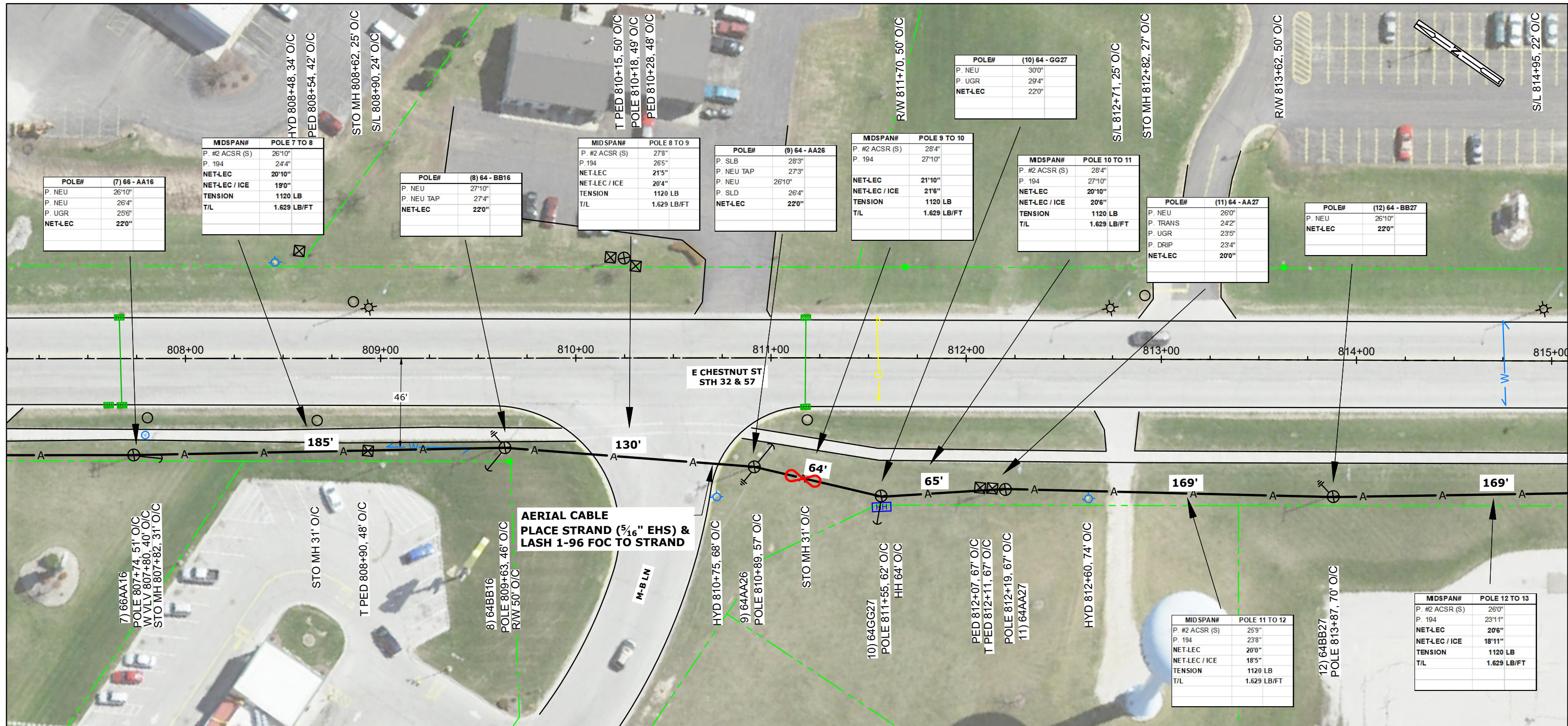
**PLACE RHINO TRI VIEW
TEST STATION AT POLE**

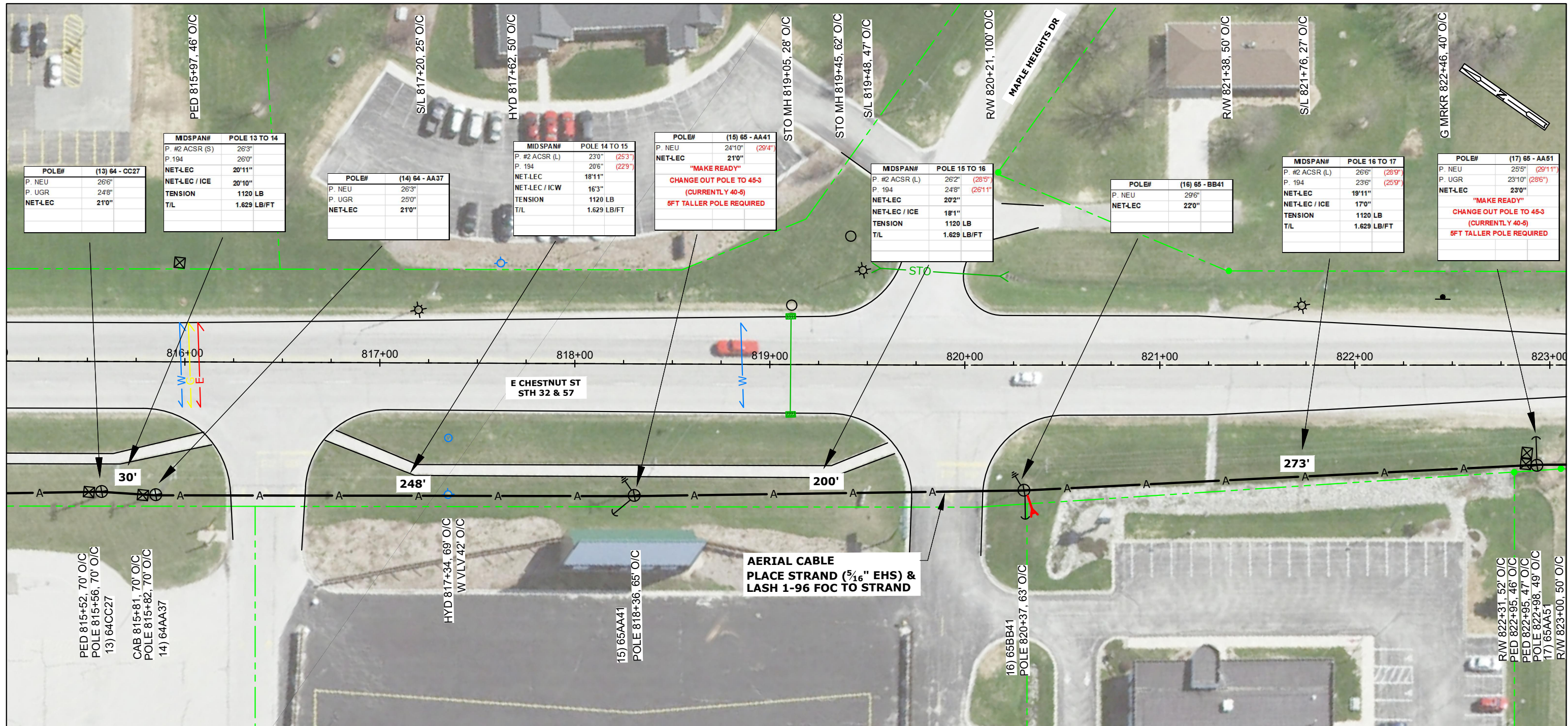
**PLACE (1) 30"X48"X36"
TIER 15 HANDHOLE WITH
(1) 5/8" X 8' GROUND ROD
(1) RHINO TRI VIEW TEST STATION
(1) MARKER BALL**

POLE#	(2) 64 - BB5
P. OHG	34'6"
P. SLB	34'0"
P. SPOOL	33'0"
P. DRIP	32'4"
CATV	27'10"
NET-LEC	24'6"

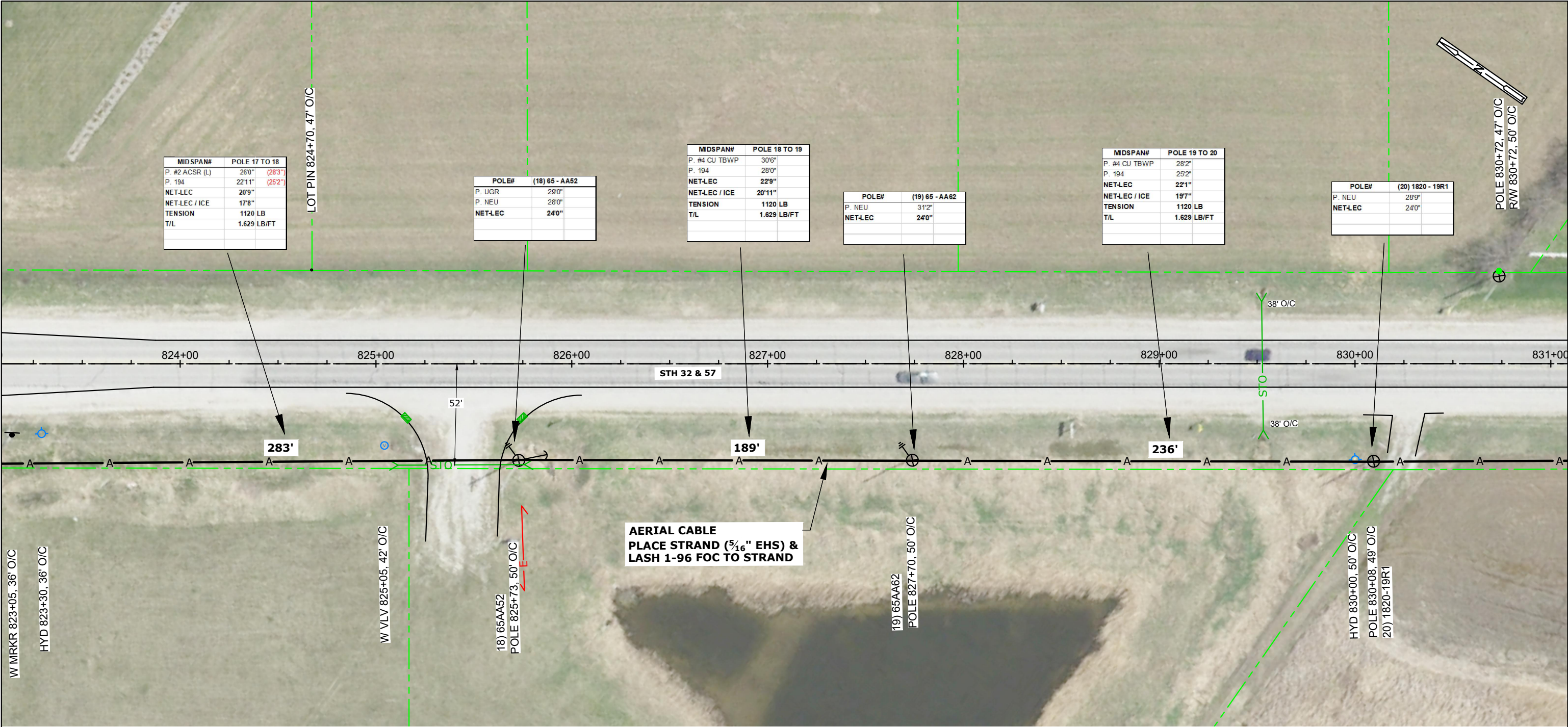
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.			WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
																																		SHEET 101 OF 239		
HH	797+00	1	2	2	825		825				1																									

[illegible]

[illegible]

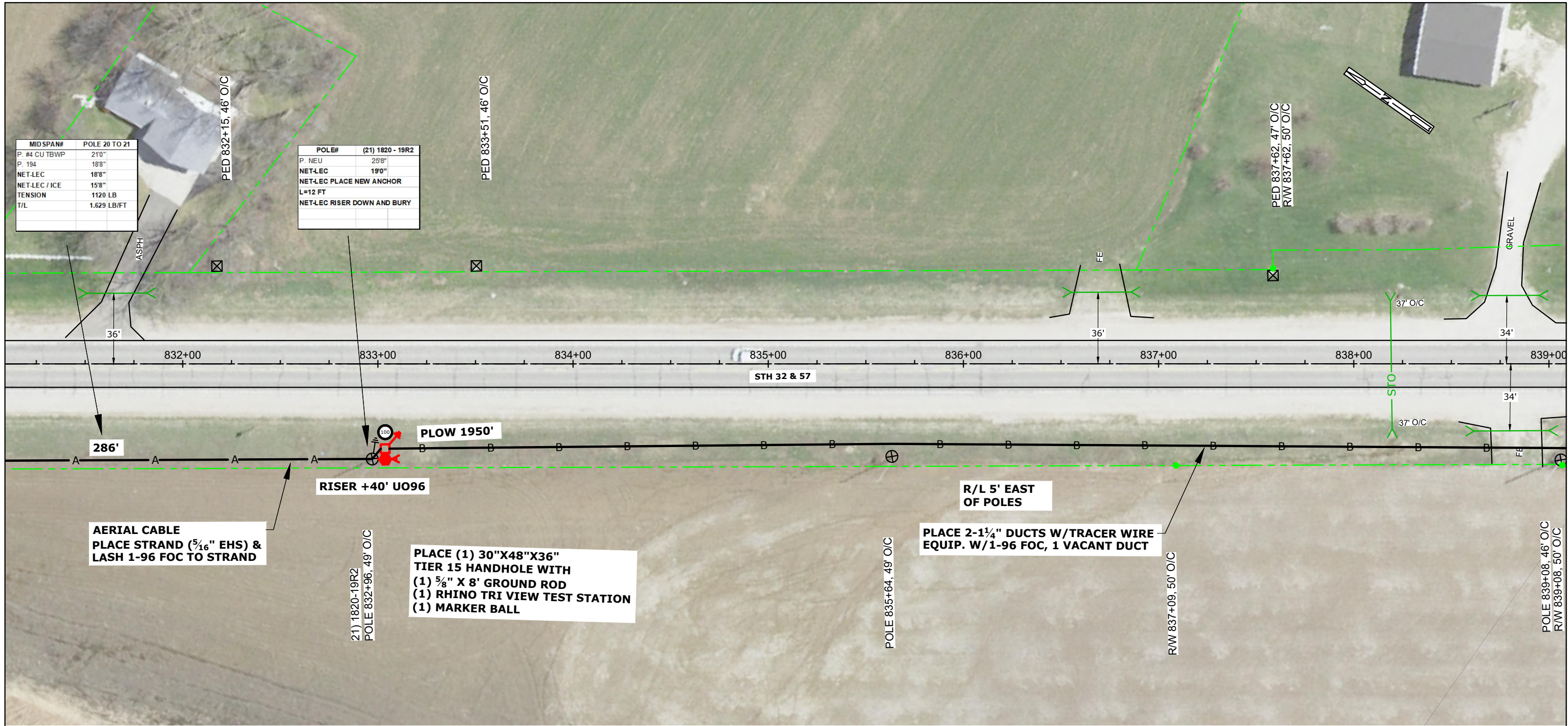
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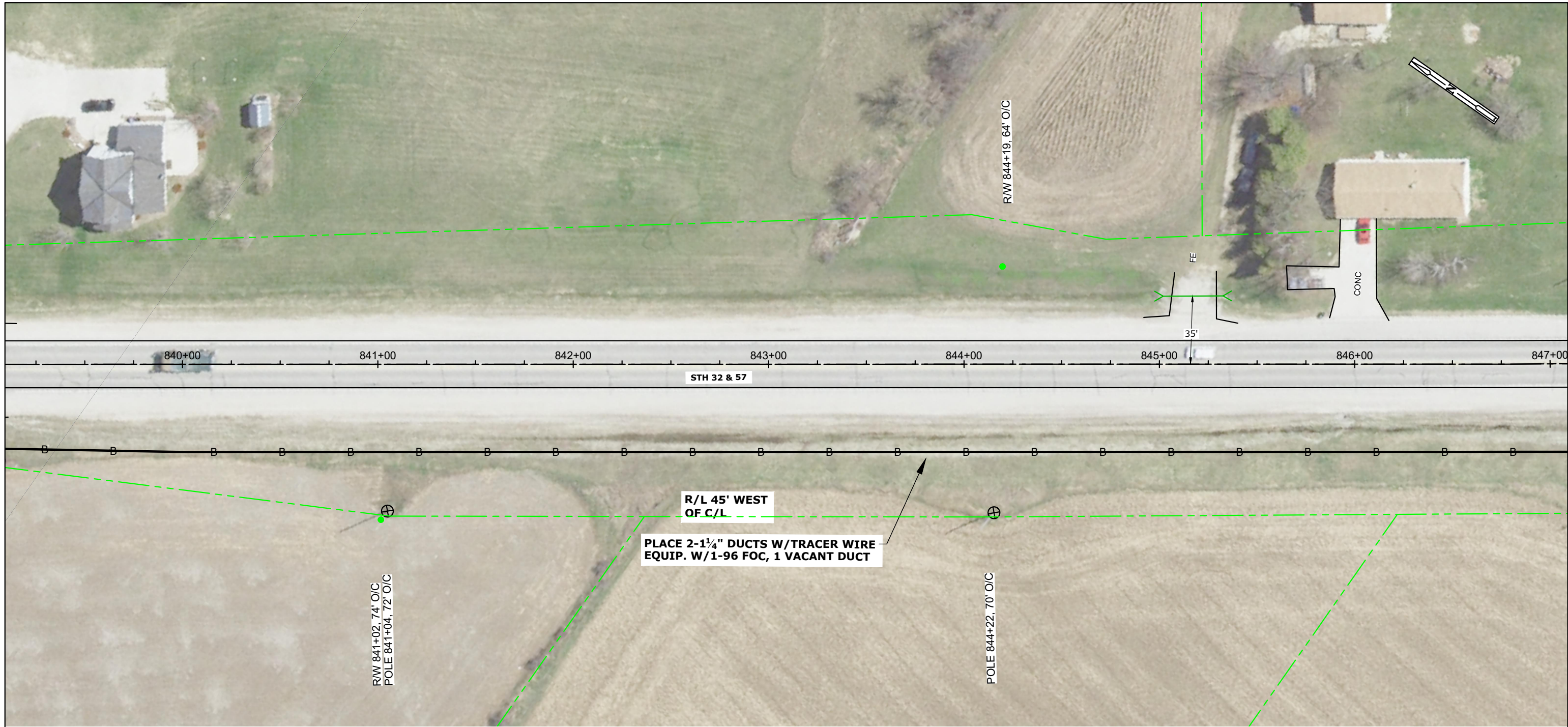
CONT'D PRT 104



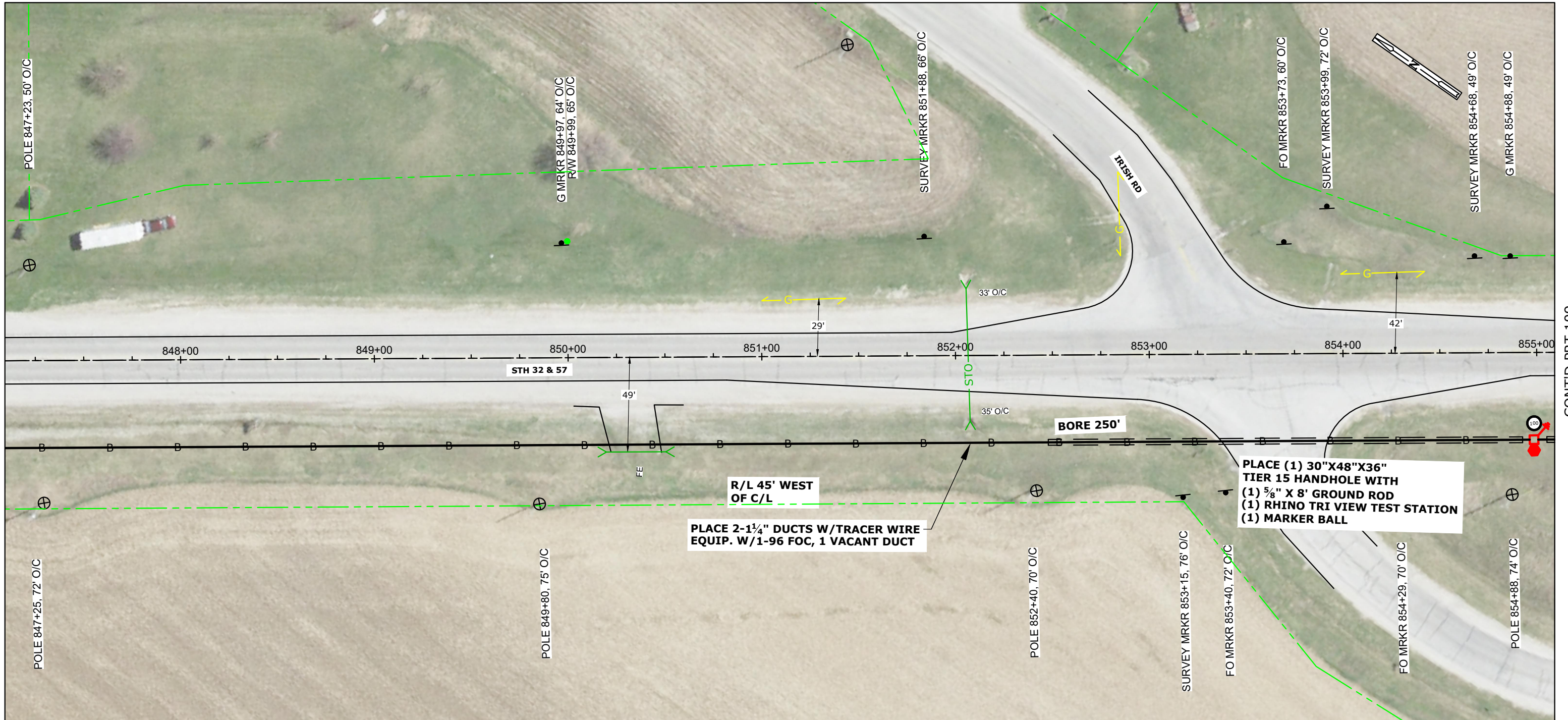
CONT'D PRT 106

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES							
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (⁵ / ₁₆ "EHS)	PE 1-3 (⁵ / ₁₆ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																	SHEET 105 OF 239					
																																	MAP NO.					
																																	FILE NAME: Calumet N18-47 NORTH.dwg					
																																	P.O.# NL18-47					
																																	DRAFTING		BY	DATE		
																																	BASE		AL			
																																	DESIGN		PC			
																																	BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

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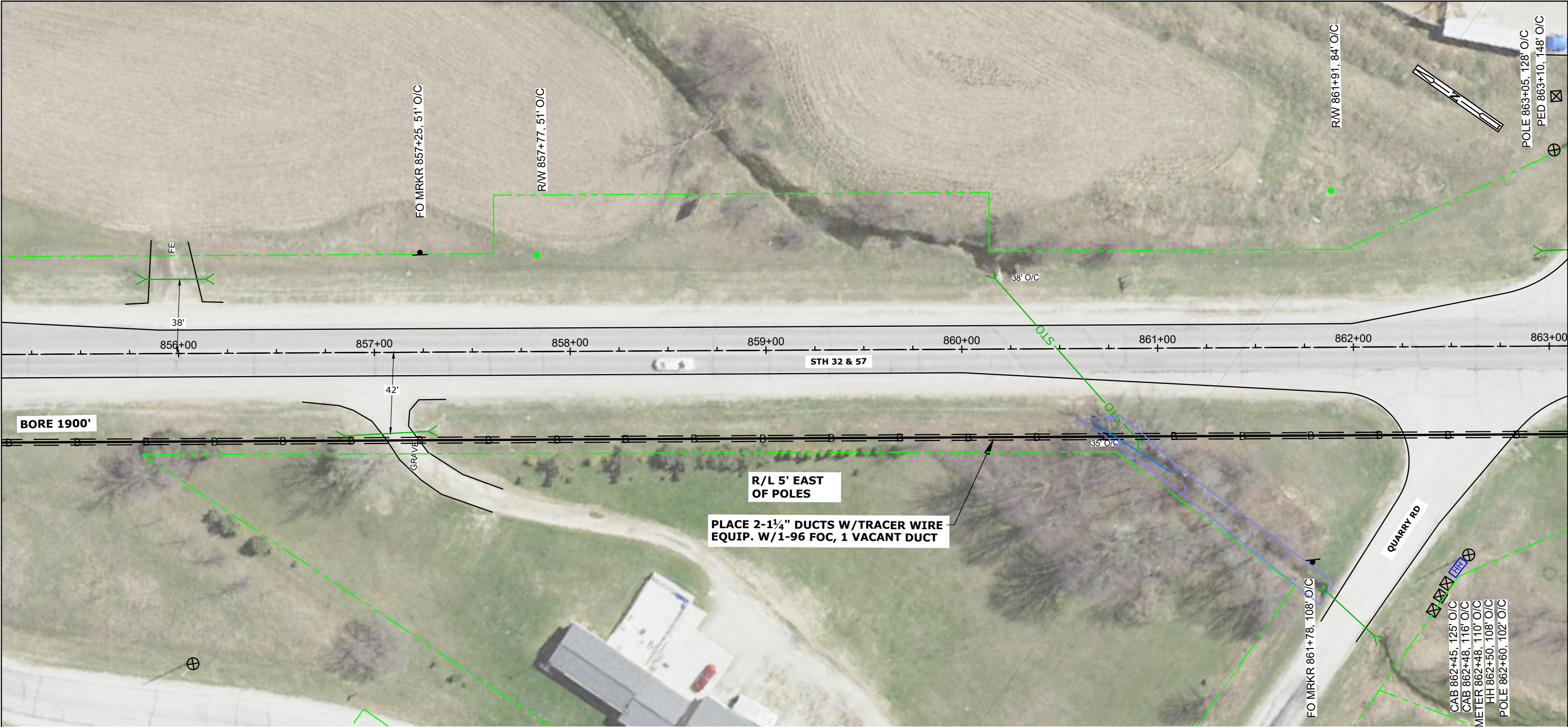
CONT'D PRT 107



CONT'D PRT 109

[illegible]

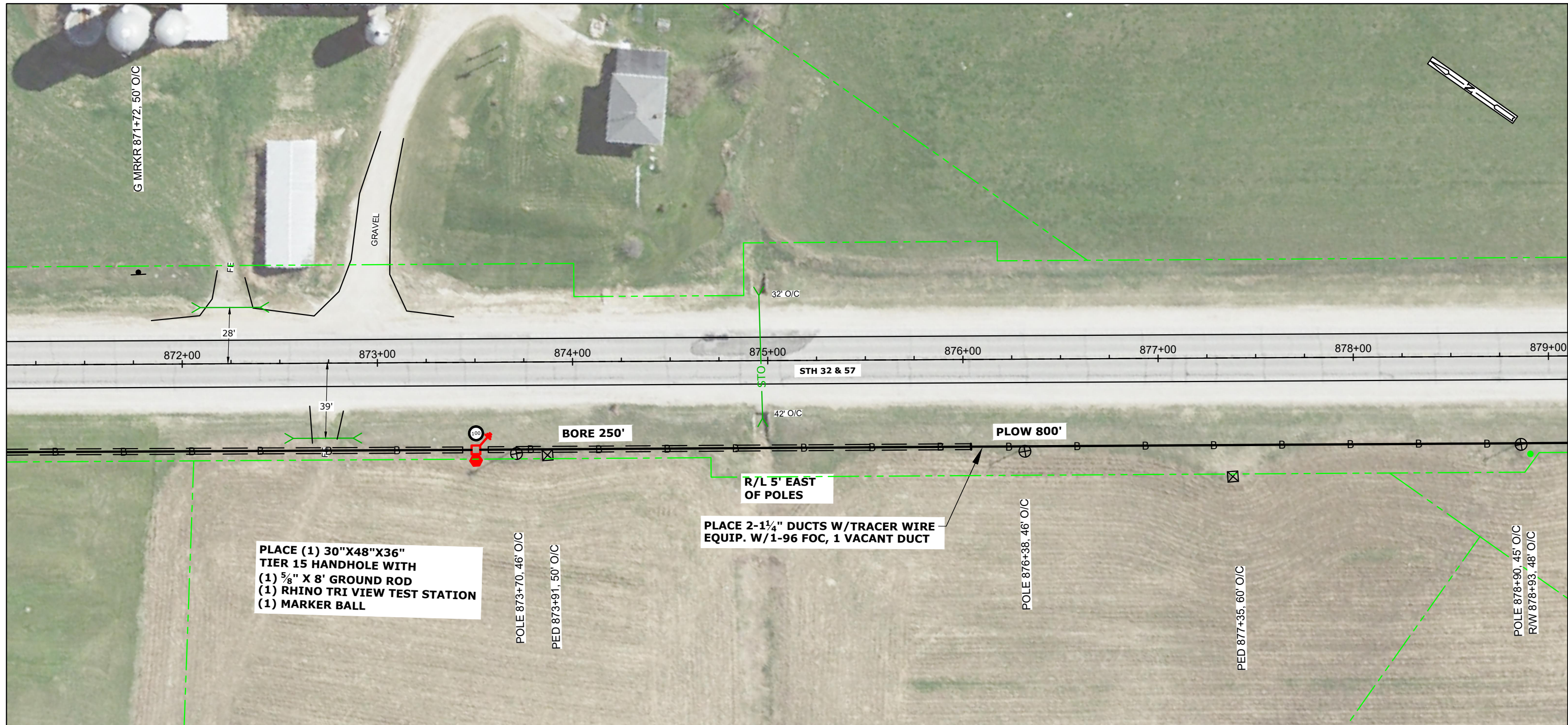
CONT'D PRT 108



CONT'D PRT 110

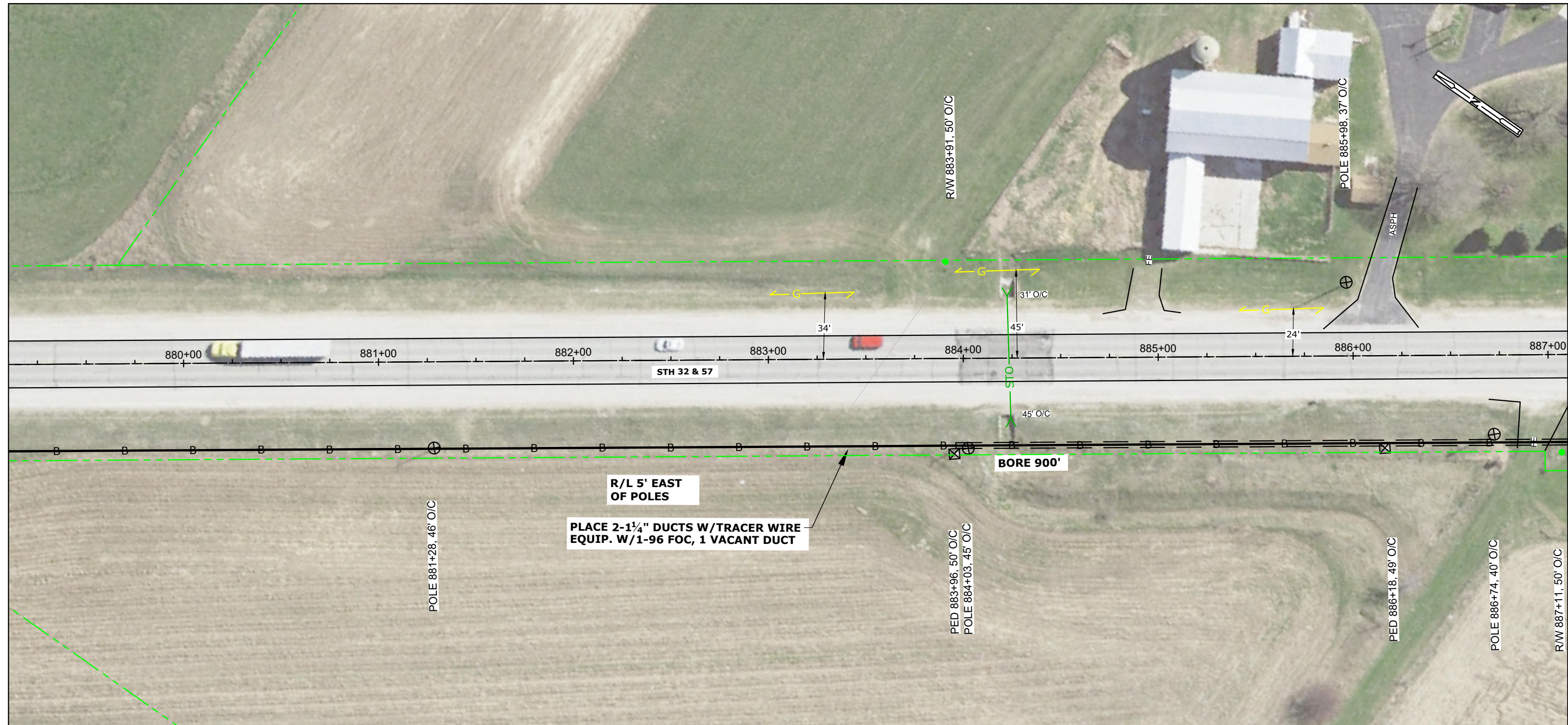
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES							
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN							
																																		SHEET 109 OF 239					
																																		MAP NO.					
																																		FILE NAME: Calumet N18-47 NORTH.dwg					
																																		P.O.# NL18-47					
																																		DRAFTING		BY	DATE		
																																		BASE		AL			
																																		DESIGN		PC			
																																		BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 111 OF 239		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{7}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				
HH	873+50	1	1	1	1850		1850				1																							

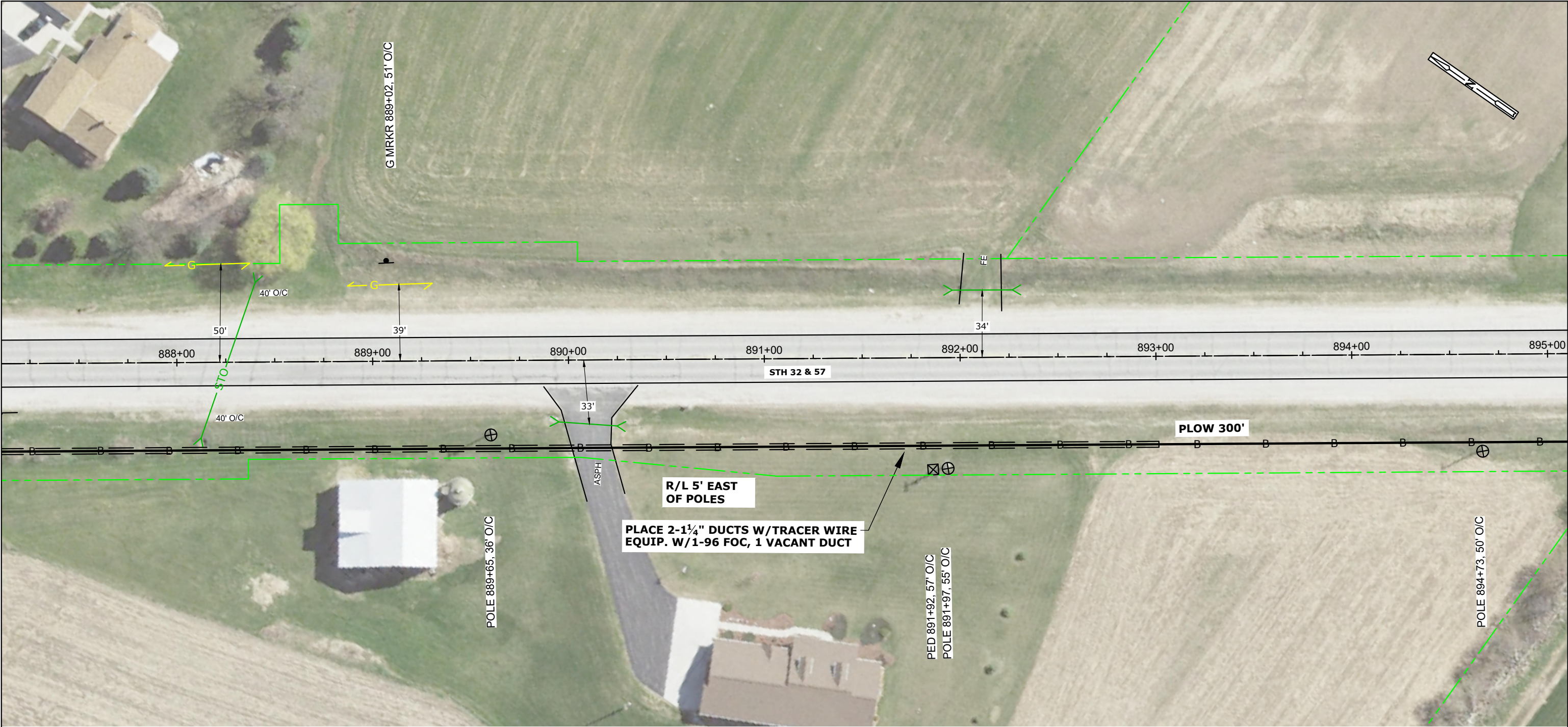
CONT'D PRT 111



CONT'D PRT 113

[illegible]

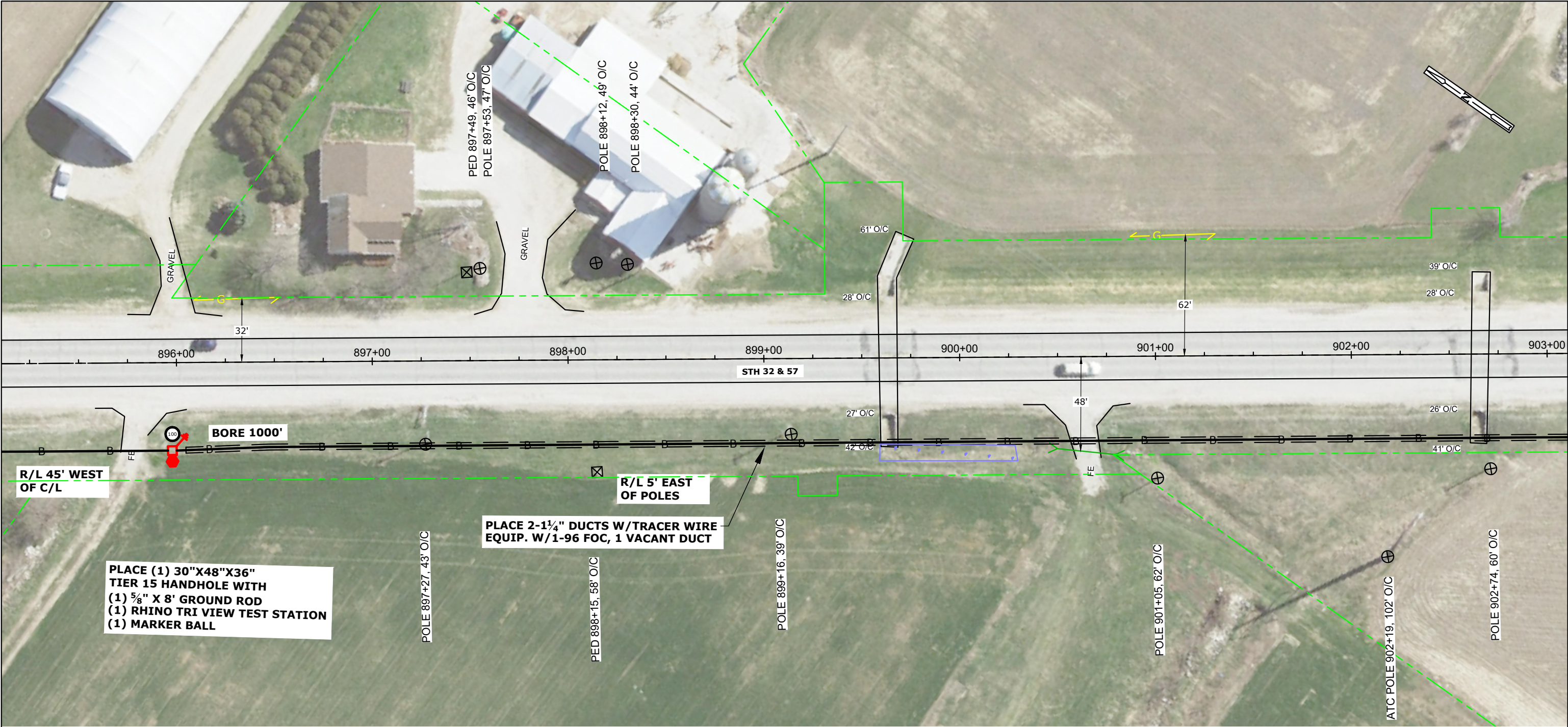
CONT'D PRT 112



CONT'D PRT 114

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
																																		SHEET 113 OF 239			
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 NORTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	

CONT'D PRT 113

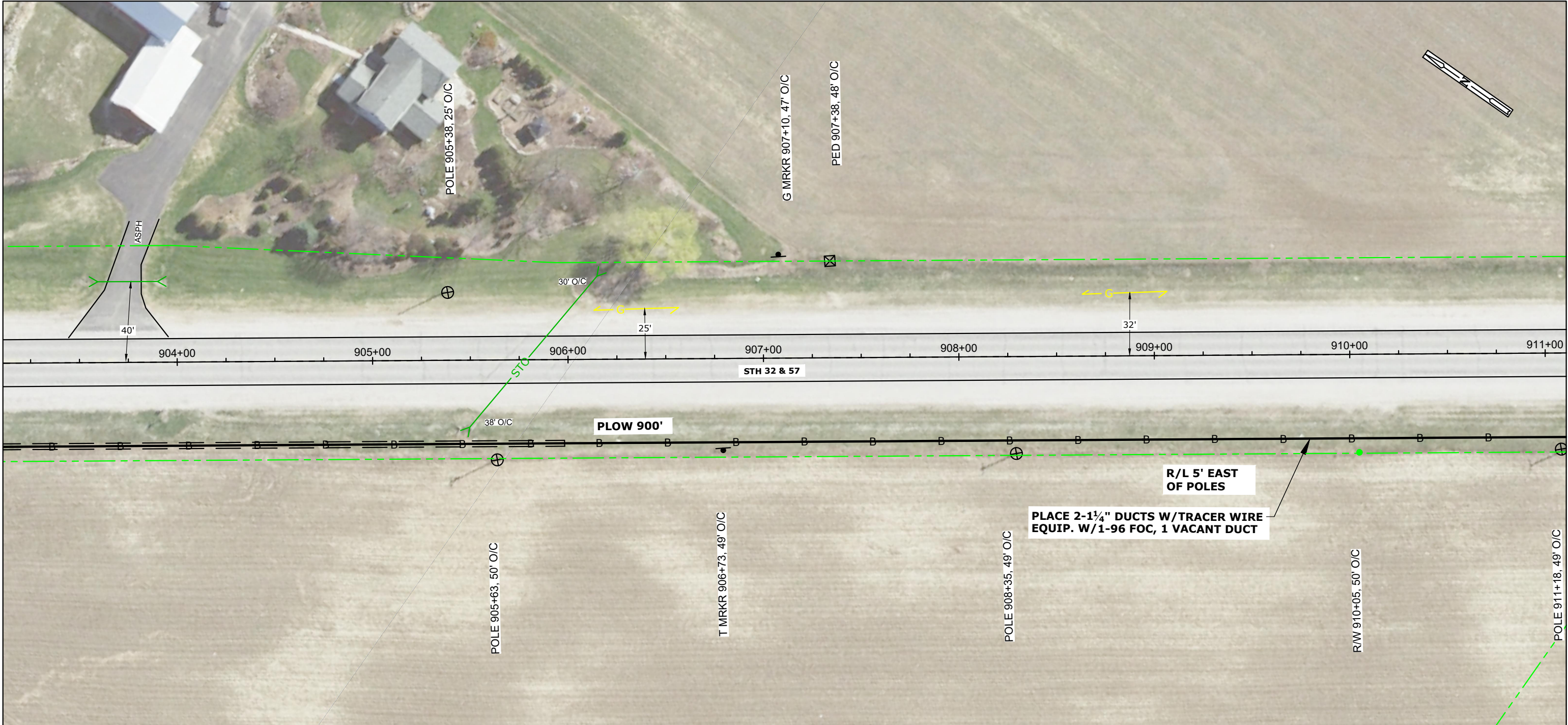


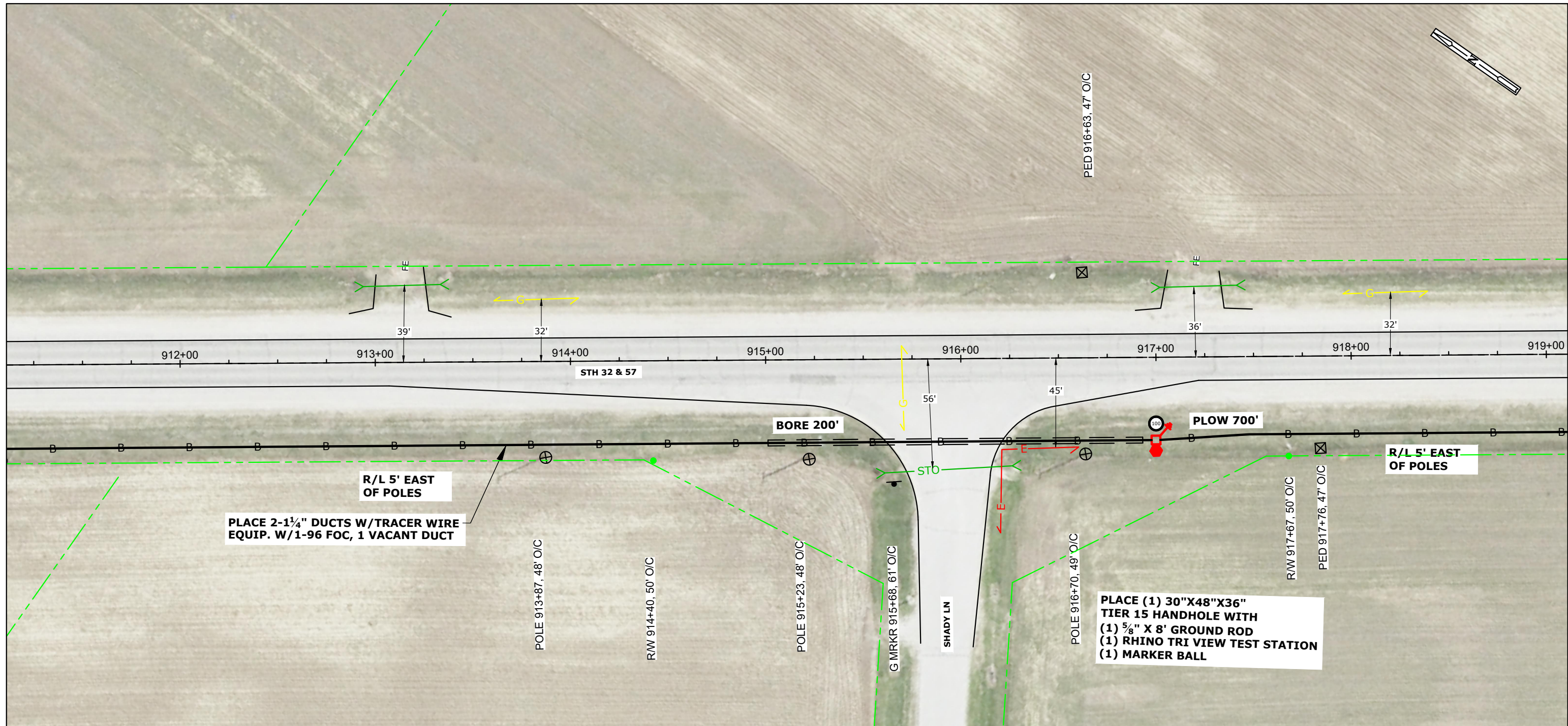
CONT'D PRT 115

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	896+00	1	1	1	2250	1100	1150			1																						SHEET 114 OF 239		
																																MAP NO.		
																																FILE NAME: Calumet N18-47 NORTH.dwg		
																																P.O.# NL18-47		
																																DRAFTING	BY	DATE
																																BASE	AL	
																																DESIGN	PC	

CONT'D PRT 114

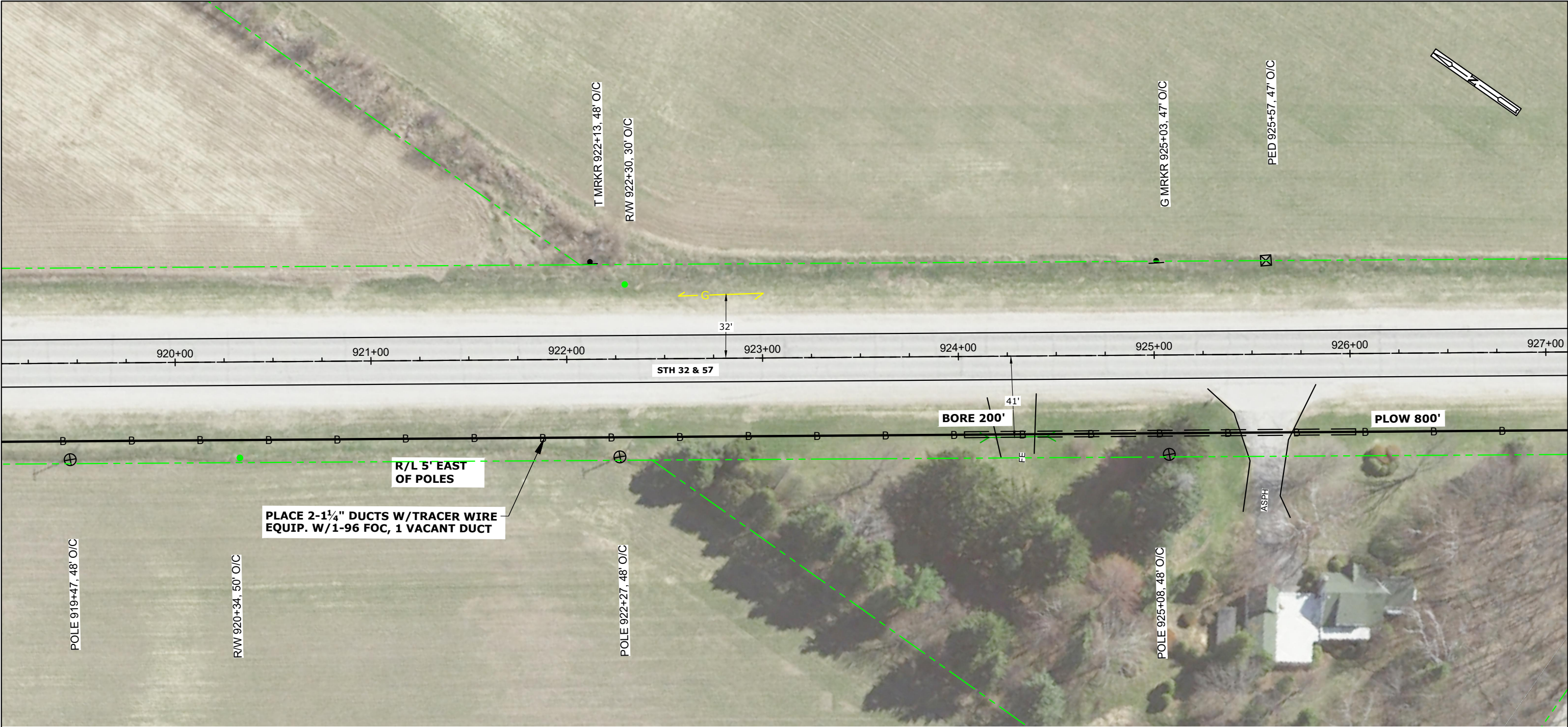
CONT'D PRT 116

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 116 OF 239	
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (⁵ / ₁₆ "EHS)	PE 1-3 (⁵ / ₁₆ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA			
HH	917+00	1	1	1	2100	900	1200				1																						
																							</										

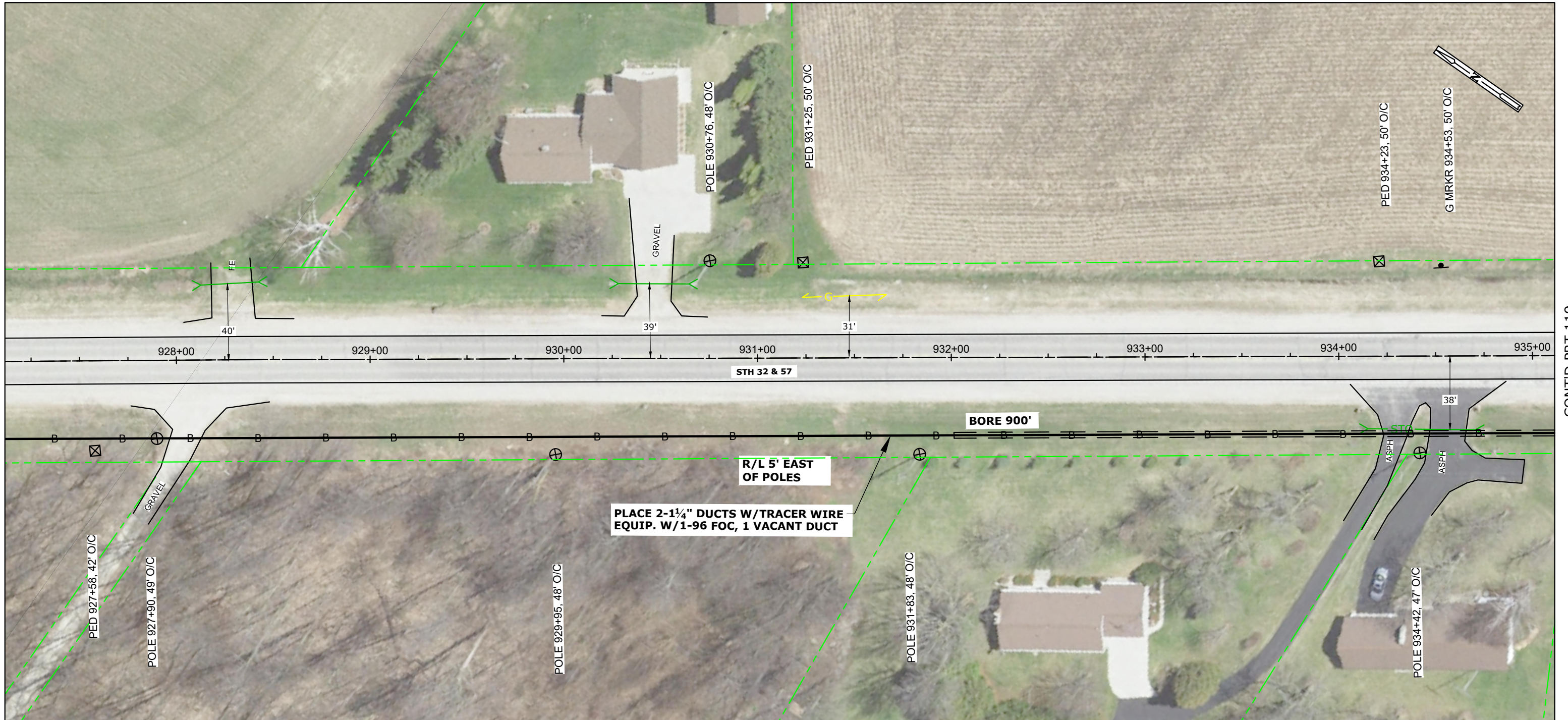
CONT'D PRT 116



CONT'D PRT 118

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
																																		SHEET 117 OF 239			
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 NORTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	
																							</														

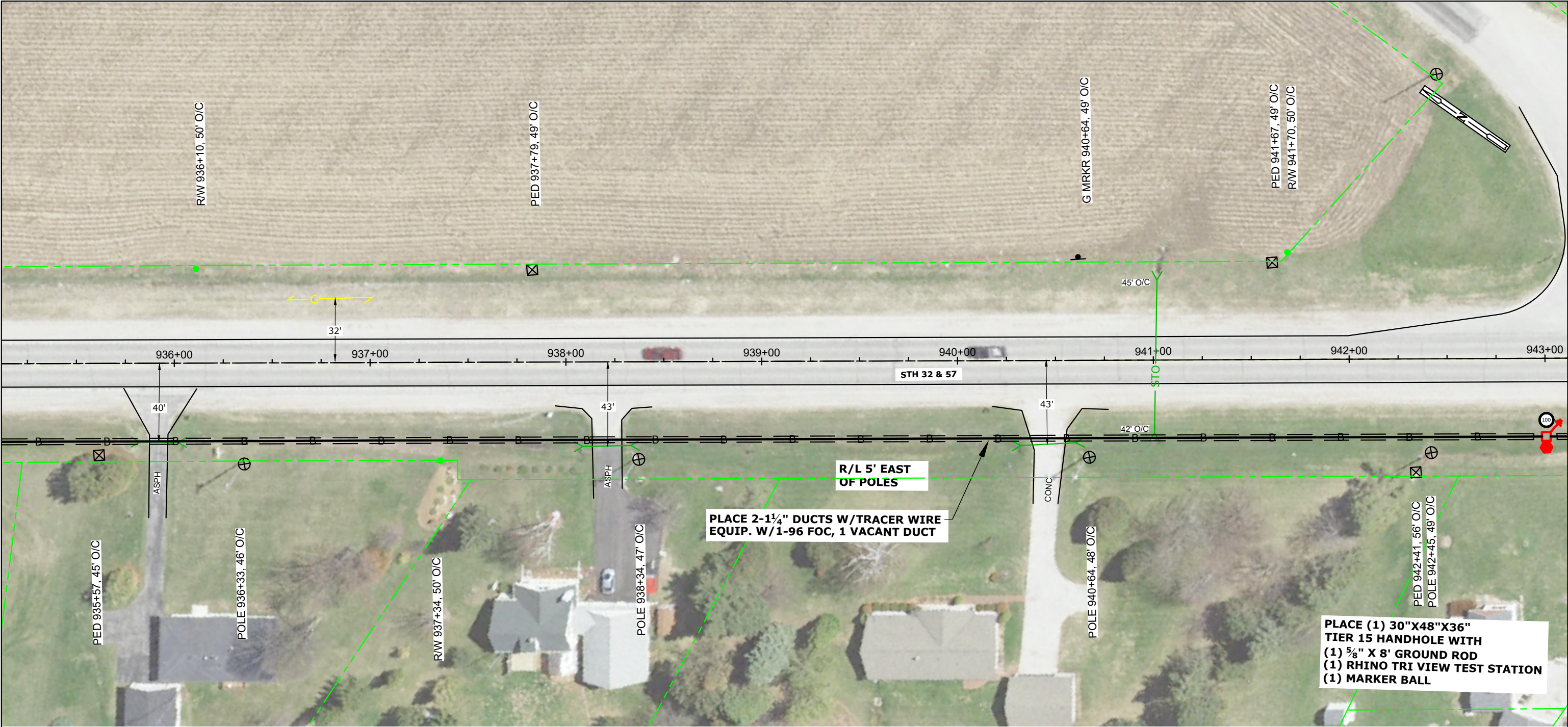
CONT'D PRT 117



CONT'D PRT 119

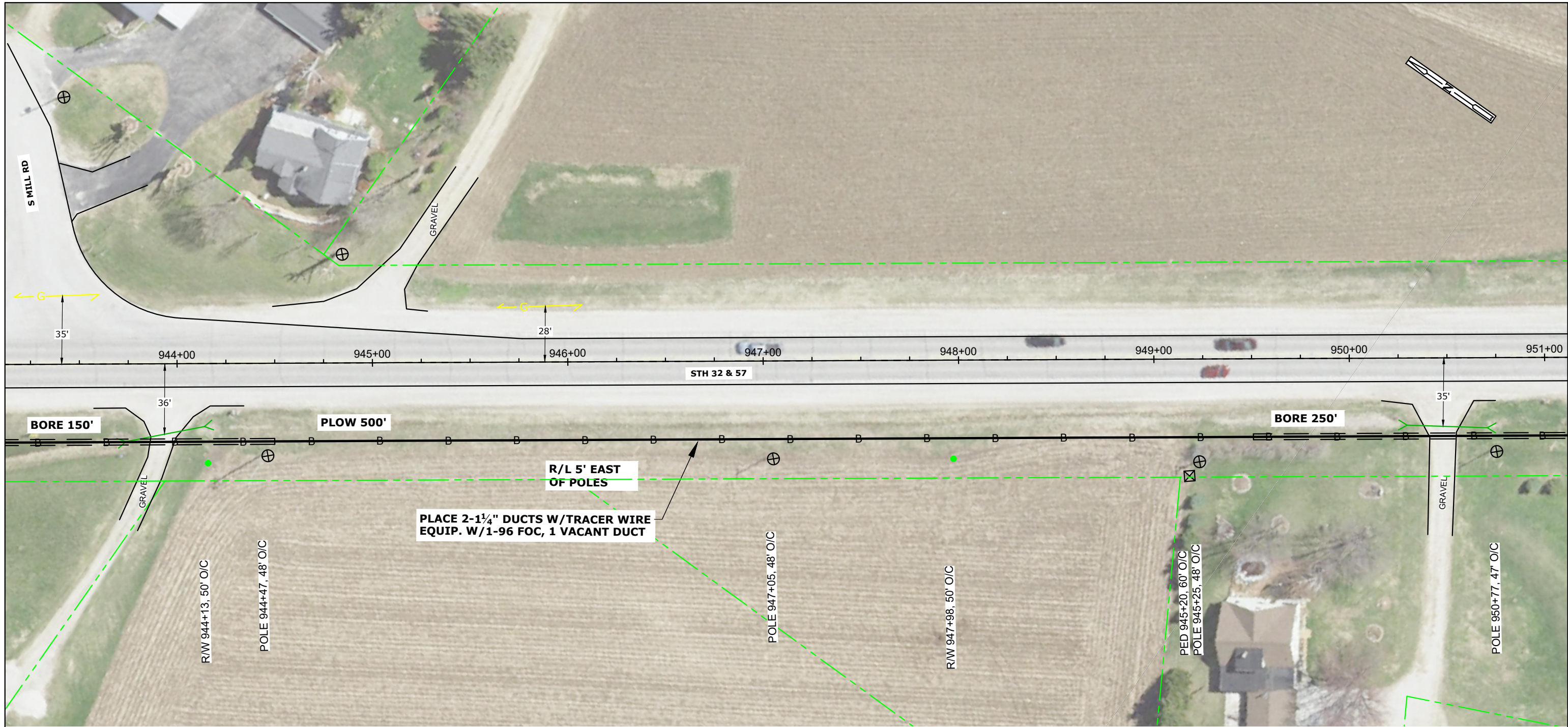
[illegible]

CONT'D PRT 118

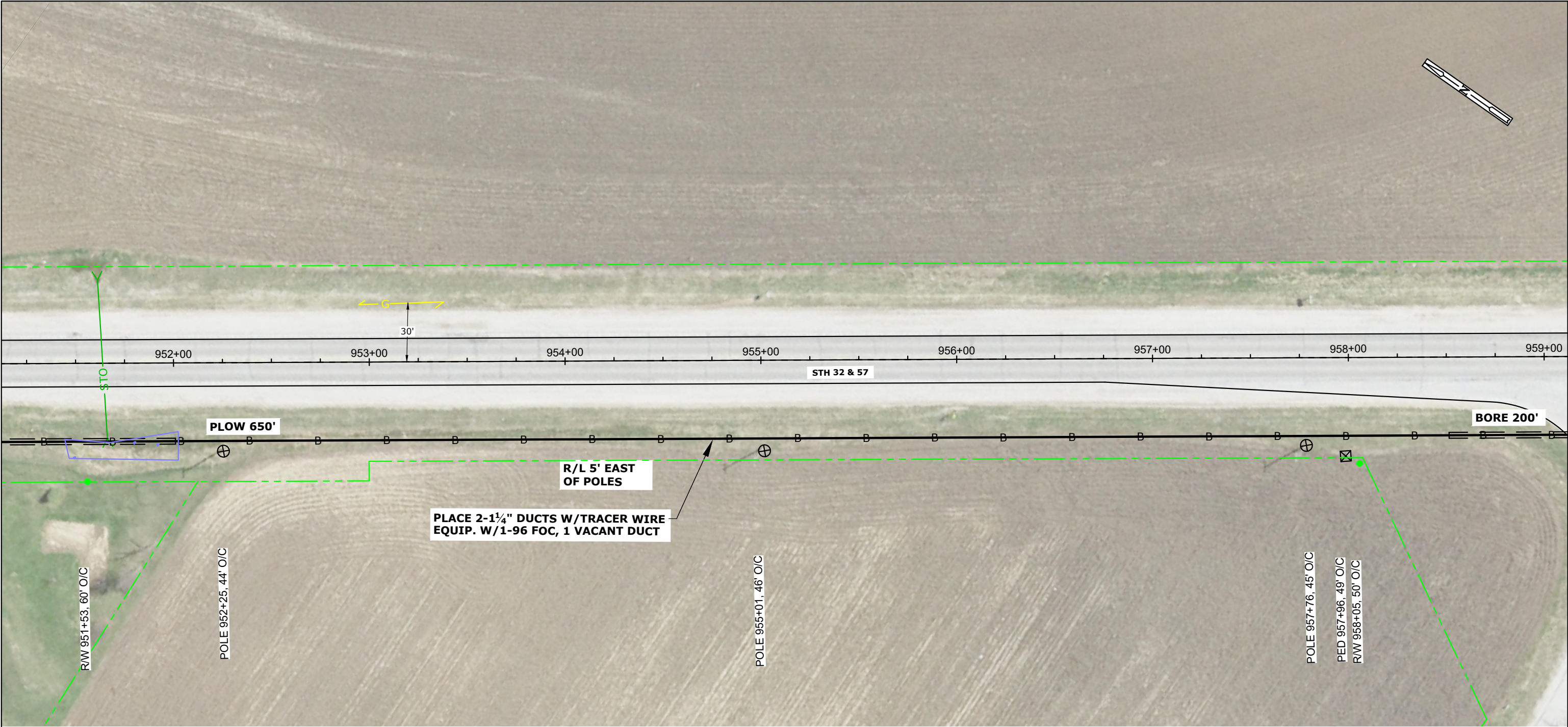


CONT'D PRT 120

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	943+00	1	1	1	2600	1500	1100			1																						SHEET 119 OF 239				
																																MAP NO.				
																																FILED		FILE NAME: Calumet N18-47 NORTH.dwg		
																																PLACE CABLE		P.O.# NL18-47		
																																TAB		DRAFTING	BY	DATE
																																FINAL QC		BASE	AL	
																																STAKED		DESIGN	PC	
																																BUILT				
TOTAL:		1	1	1	2600	1500	1100	####	####	####	1	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT		NOT TO SCALE			

[illegible]

CONT'D PRT 120

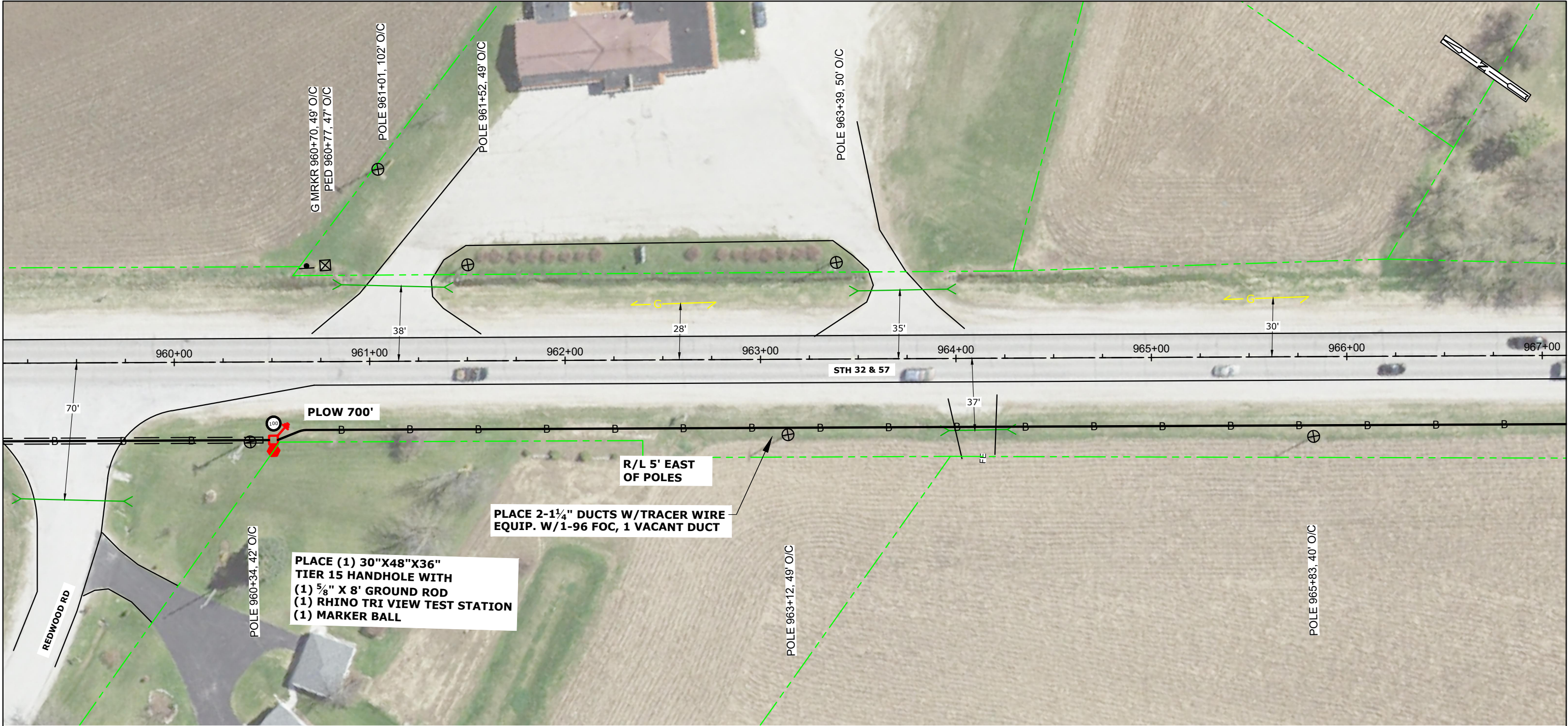


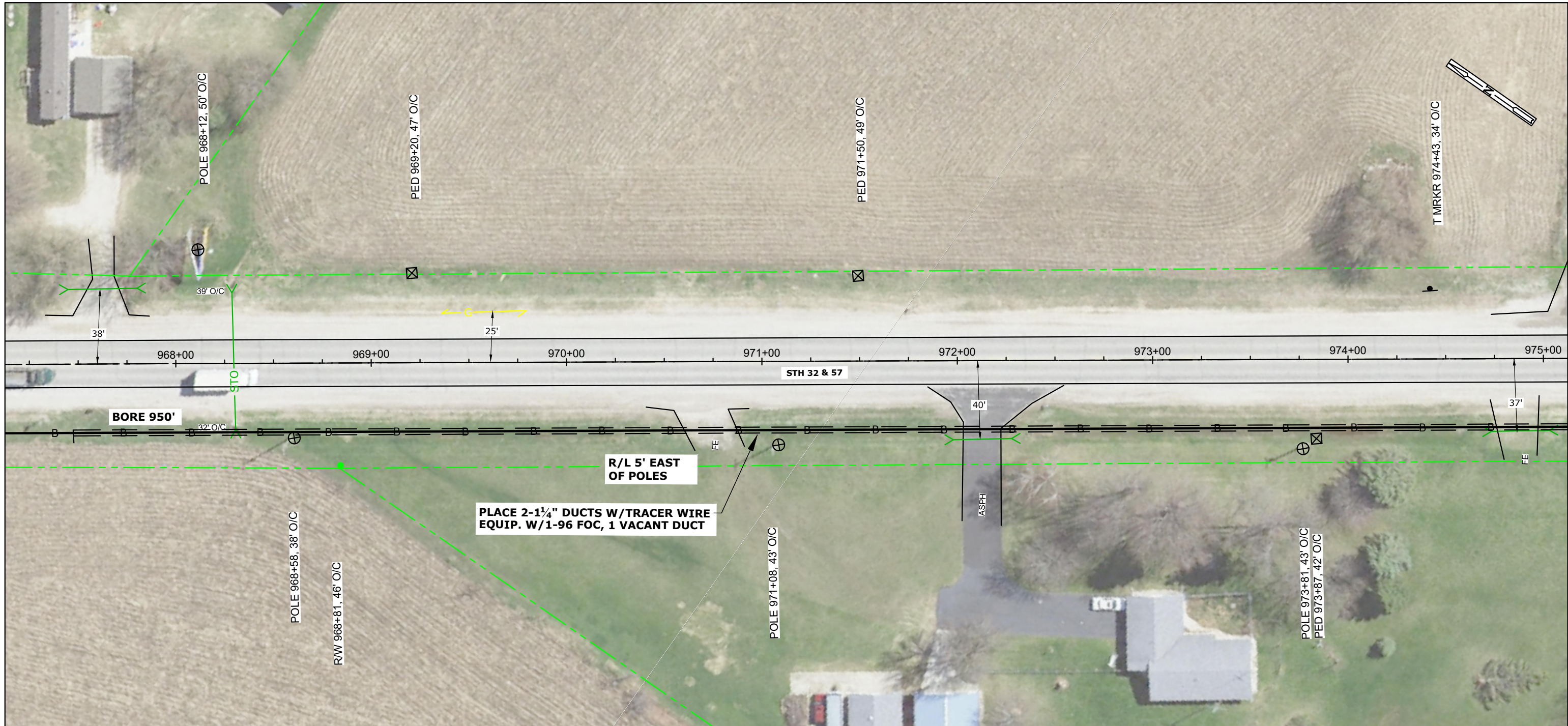
CONT'D PRT 122

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
																																		SHEET 121 OF 239			
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 NORTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	

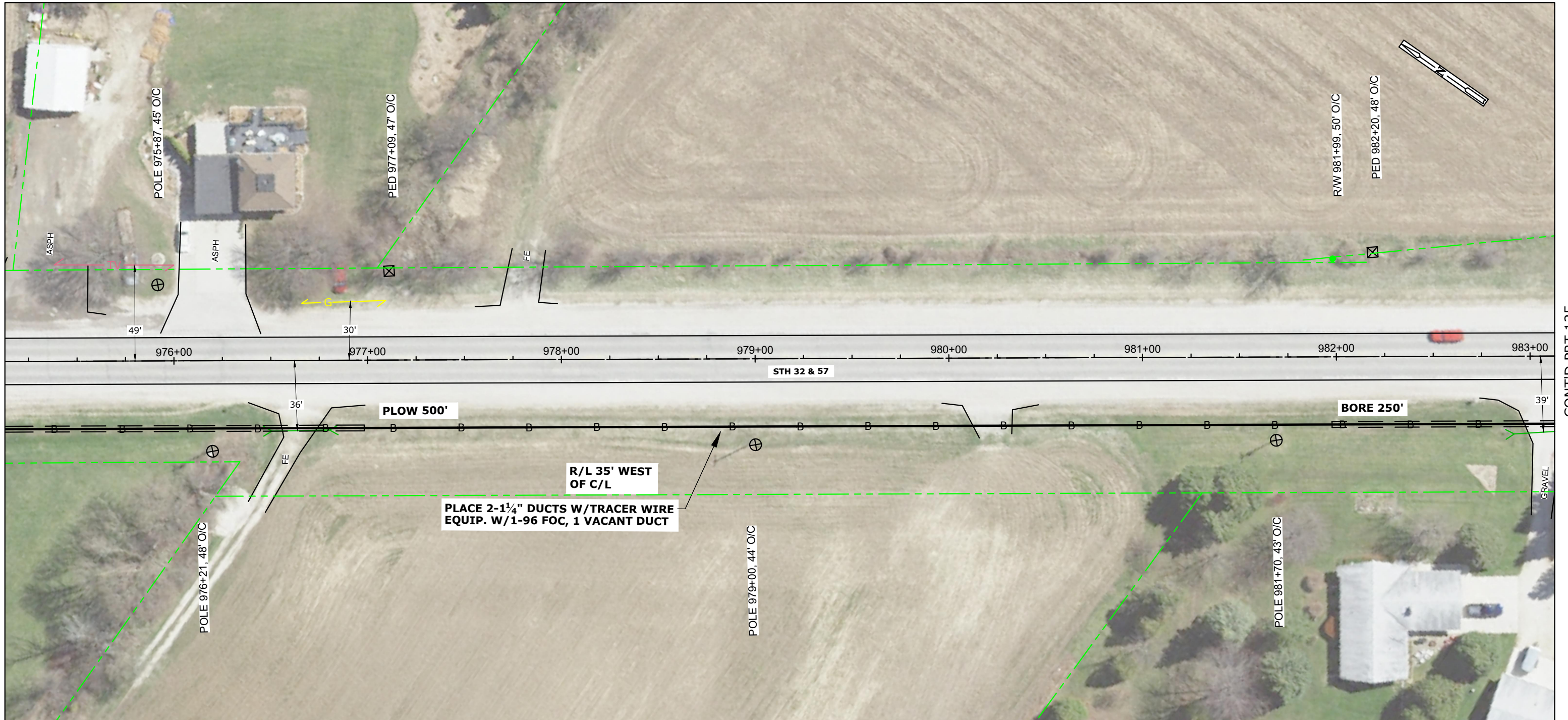
CONT'D PRT 121

CONT'D PRT 123

[illegible]

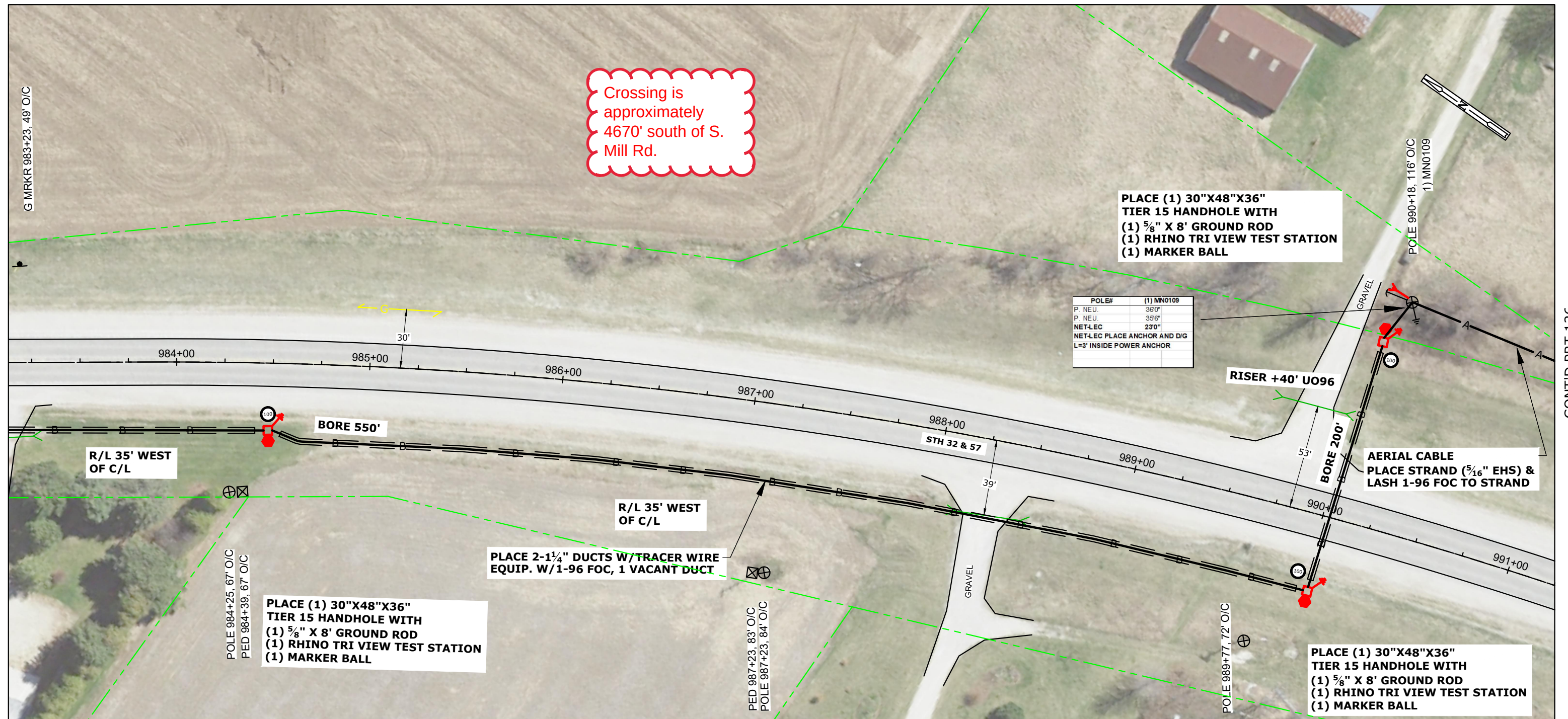
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CONT'D PRT 123



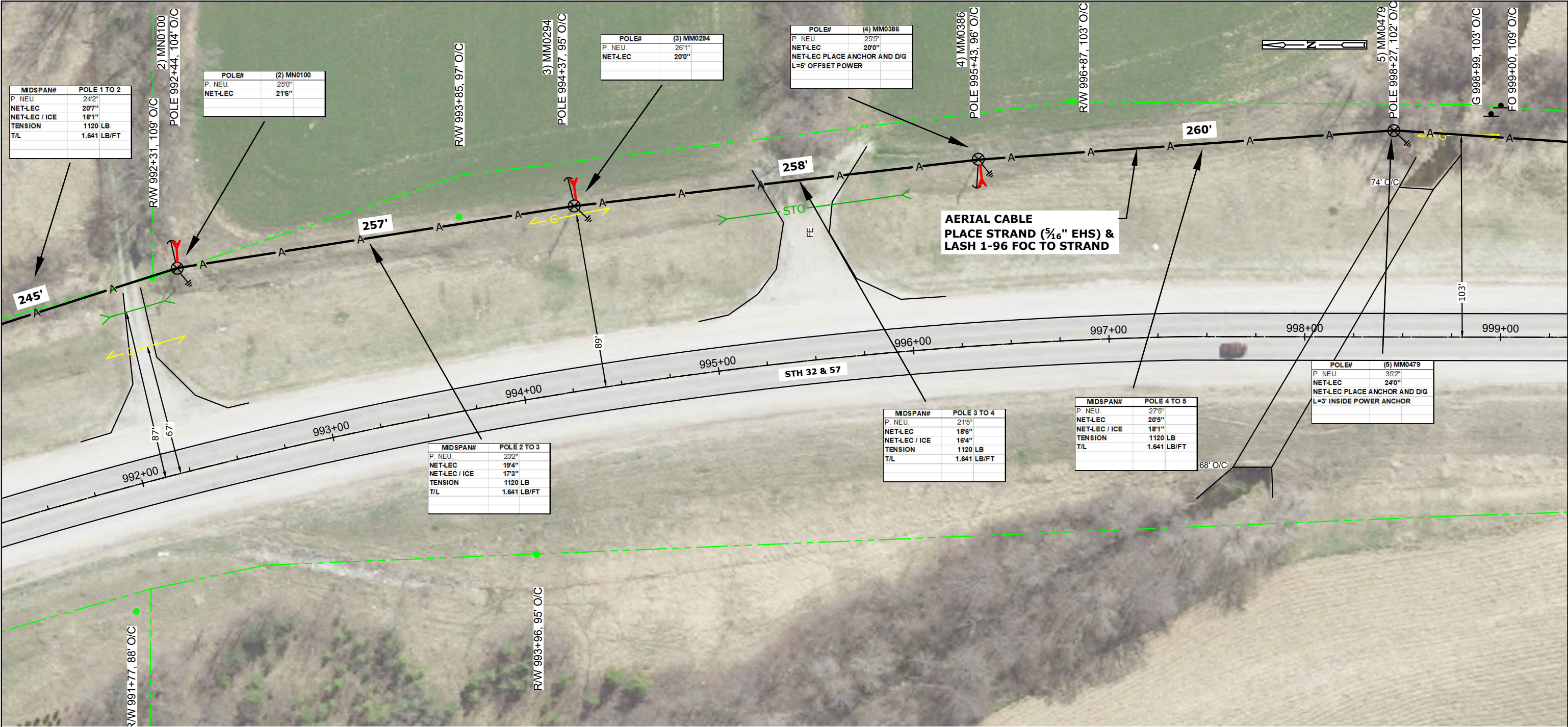
CONT'D PRT 125

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5"EHS) (16)	PE 1-3 (5"EHS) (16)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	984+50	1	1	1	2400	1200	1200				1																					SHEET 125 OF 239			
HH WEST	990+00	1	1	1	550		550				1																					MAP NO.			
HH EAST	990+00	1	1	1	150		150				1																					FILE NAME: Calumet N18-47 NORTH.dwg			
																																P.O.# NL18-47			
																																DRAFTING	BY	DATE	
																																BASE	AL		
																																DESIGN	PC		
TOTAL:		3	3	3	3100	1200	1900	####	####	####	3	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE

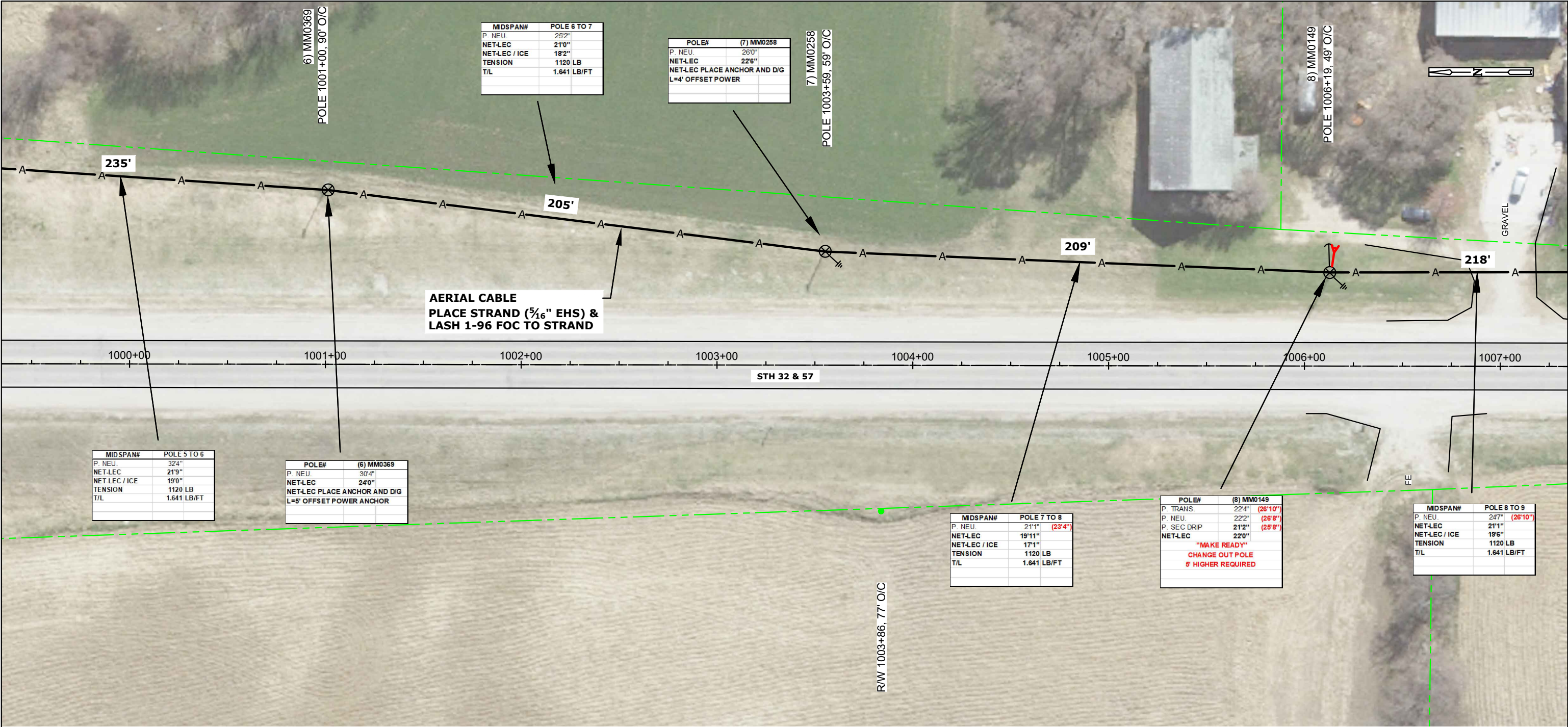
CONT'D PRT 125



CONT'D PRT 127

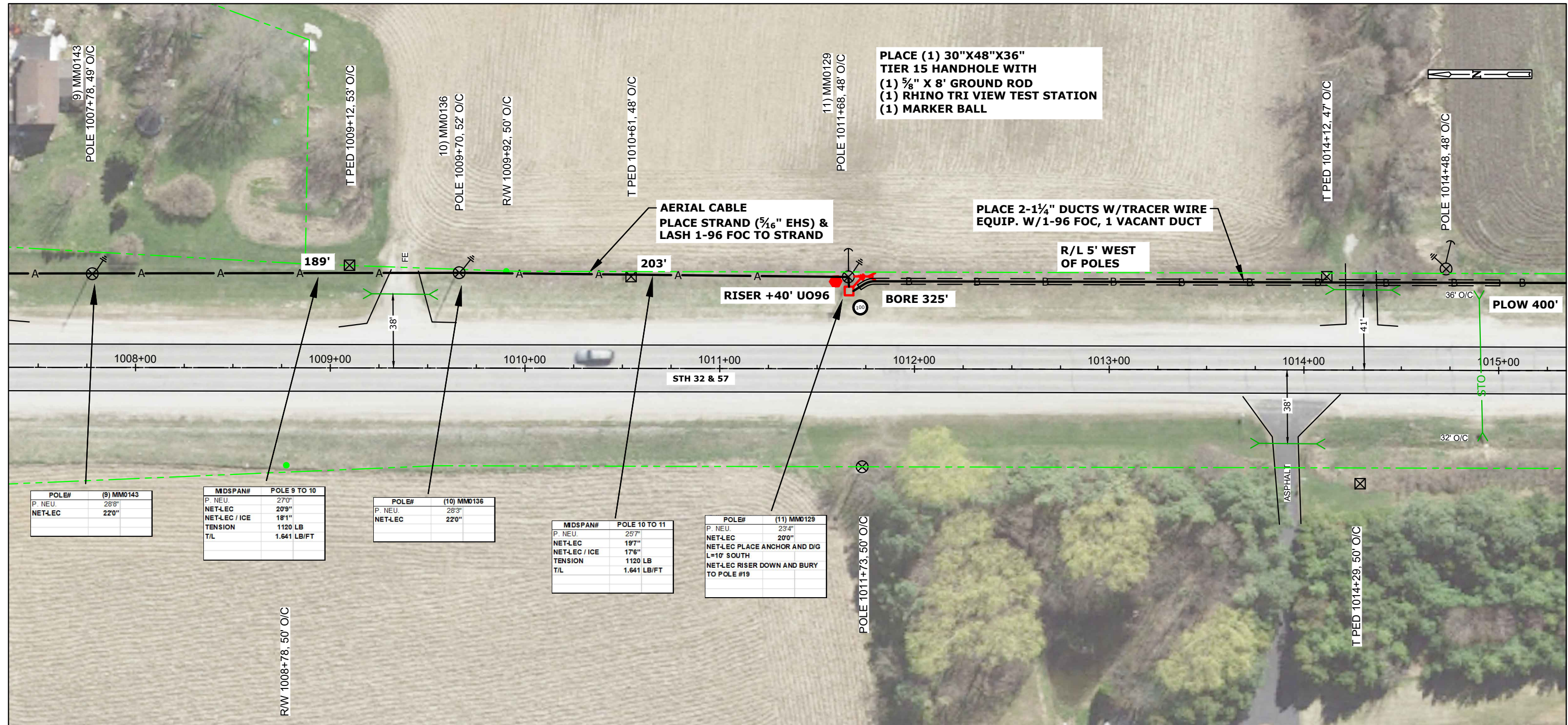
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 126 OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					

CONT'D PRT 126



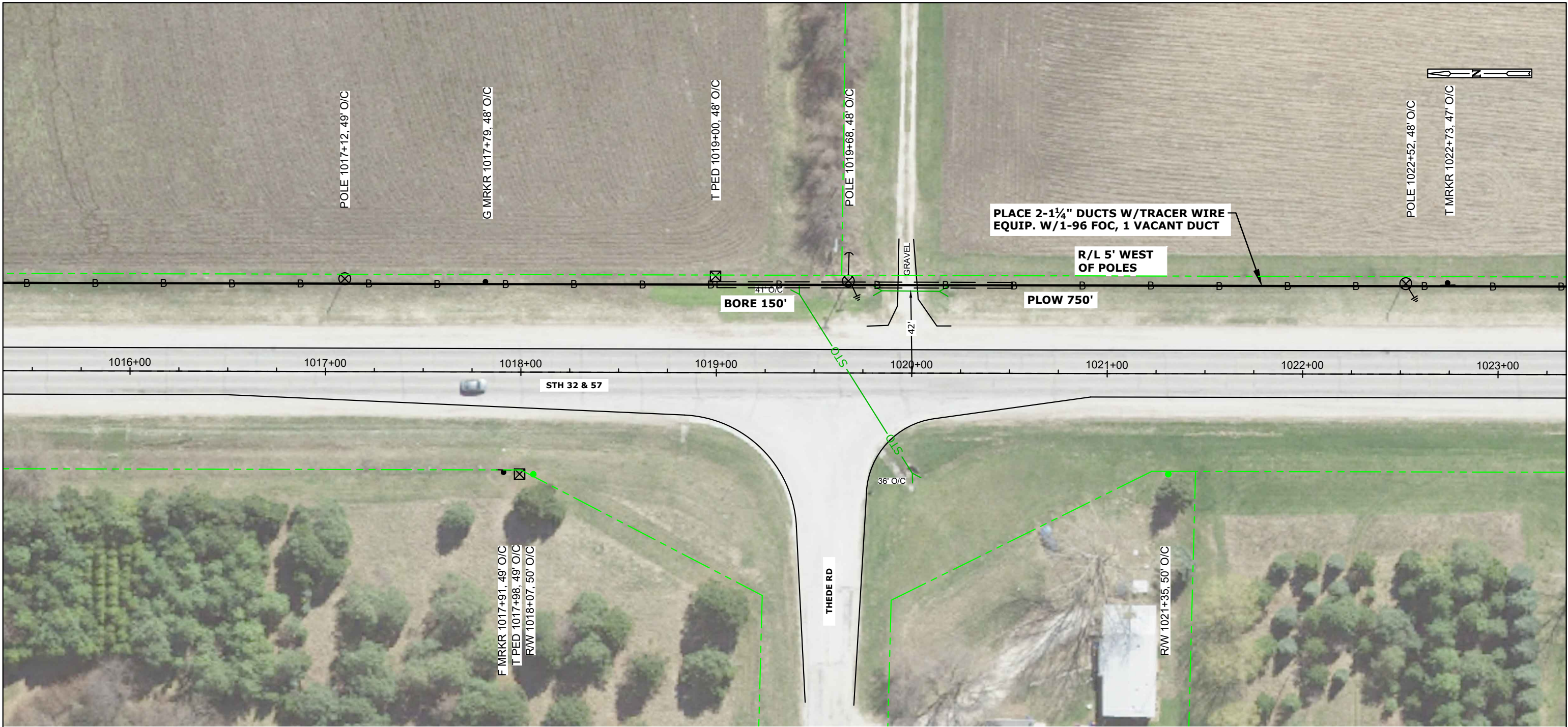
CONT'D PRT 128

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
																																	SHEET 127 OF 239			
																																	MAP NO.			
																																	FILE NAME: Calumet N18-47 SOUTH.dwg			
																																	P.O.# NL18-47			
																																	DRAFTING		BY	DATE
																																	BASE		AL	
																																	DESIGN		PC	
																													</							



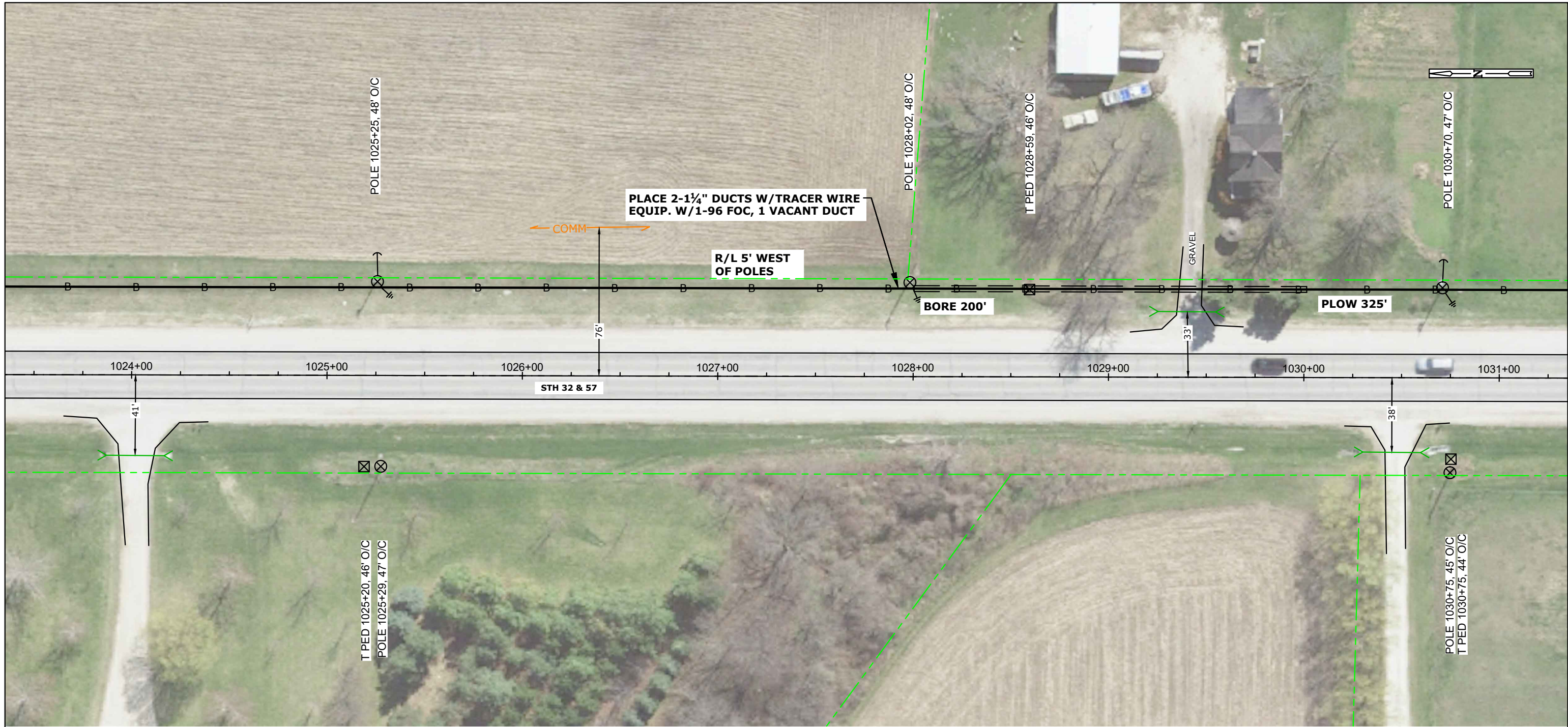
STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 128 OF 239		
OBJECT	STATION	UH 2 (30x48x36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1x2x1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{3}{16}$ "EHS)	PE 1-3 ($\frac{3}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				
HH	1011+75	1	1	1	80						1		2350	6	6	6	6					10												11

CONT'D PRT 128

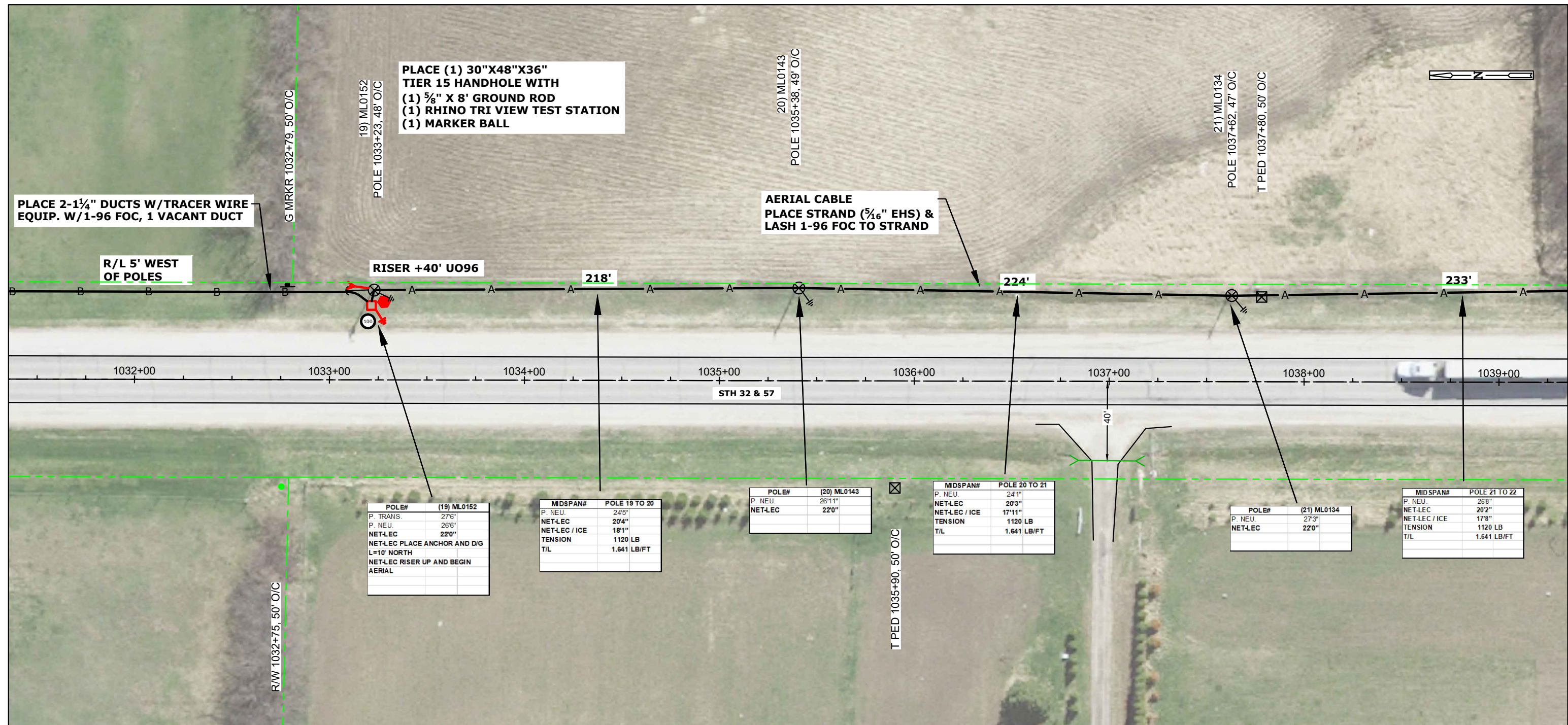


CONT'D PRT 130

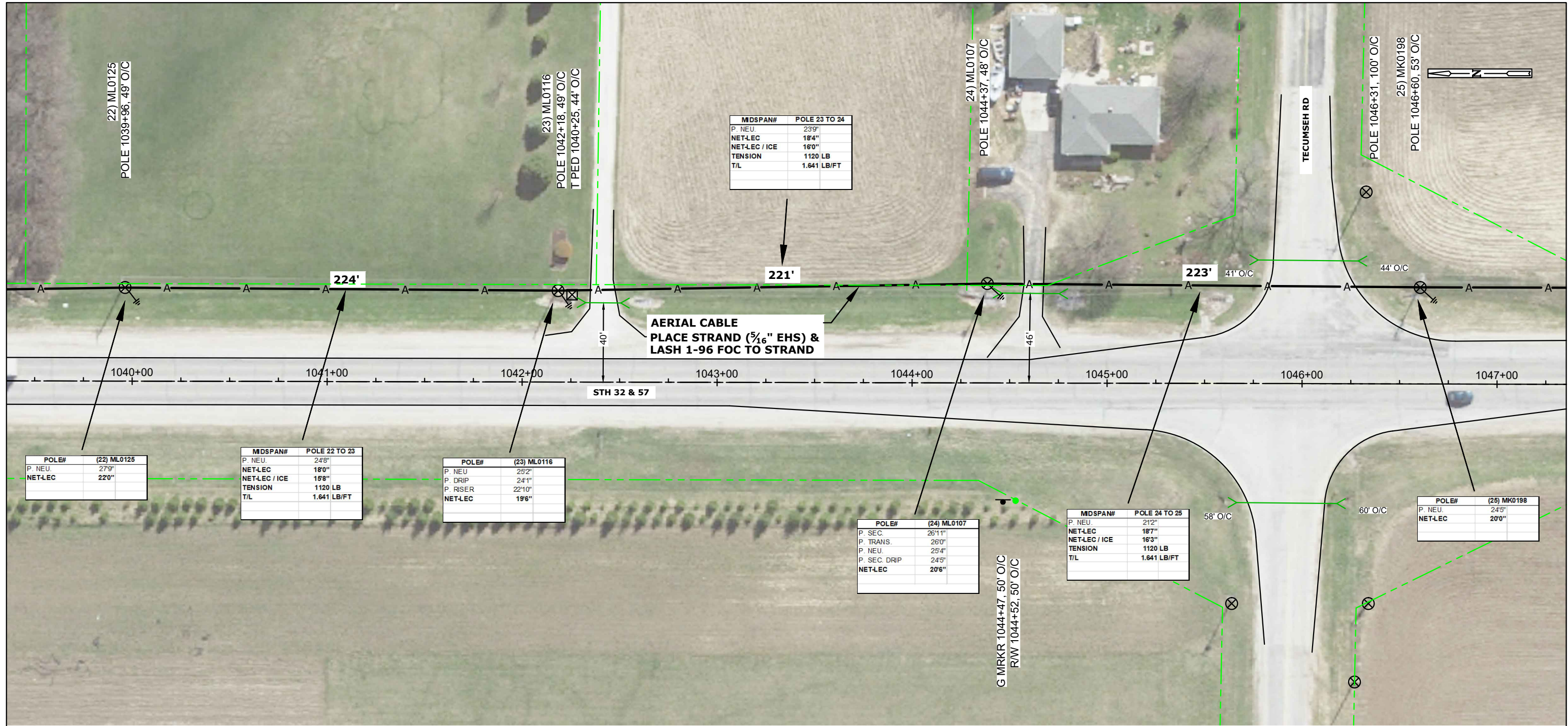
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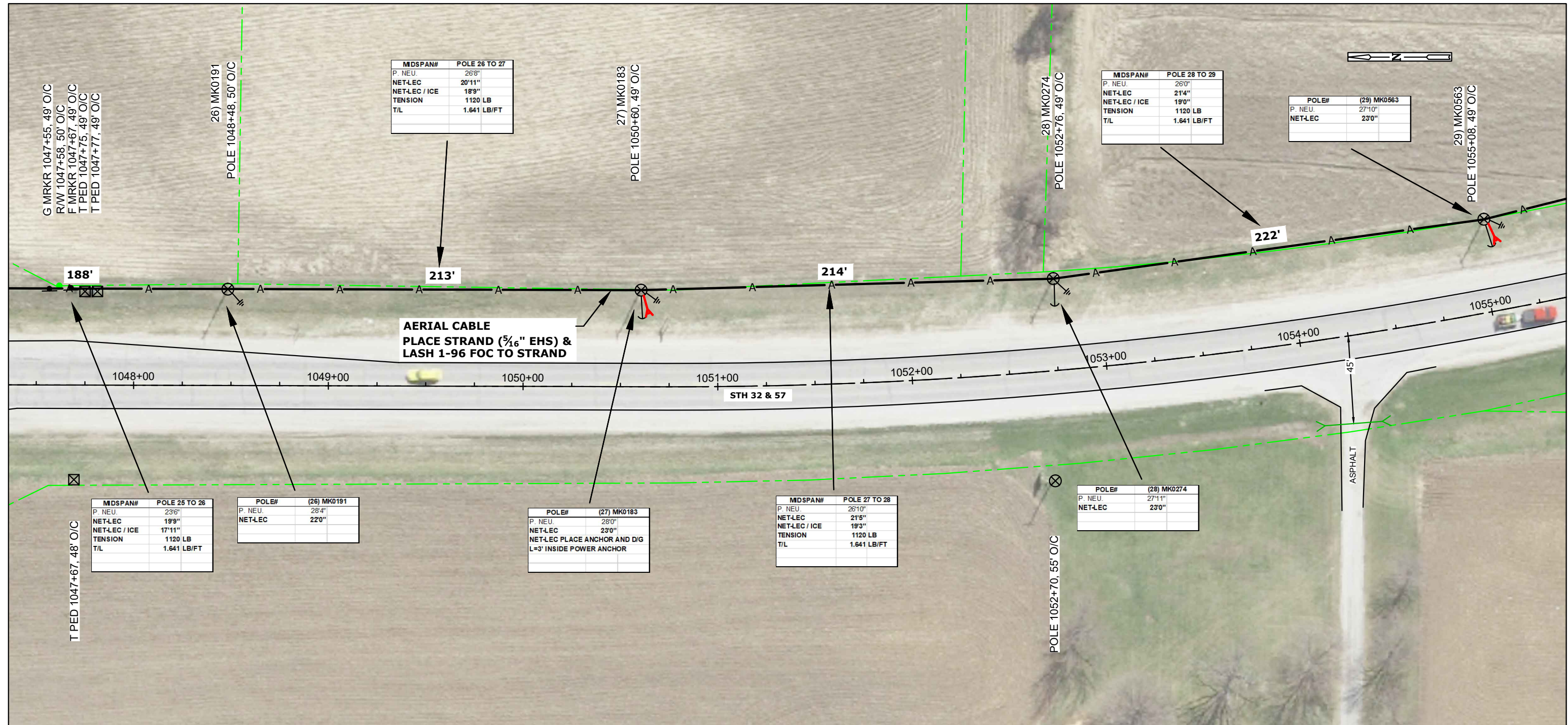


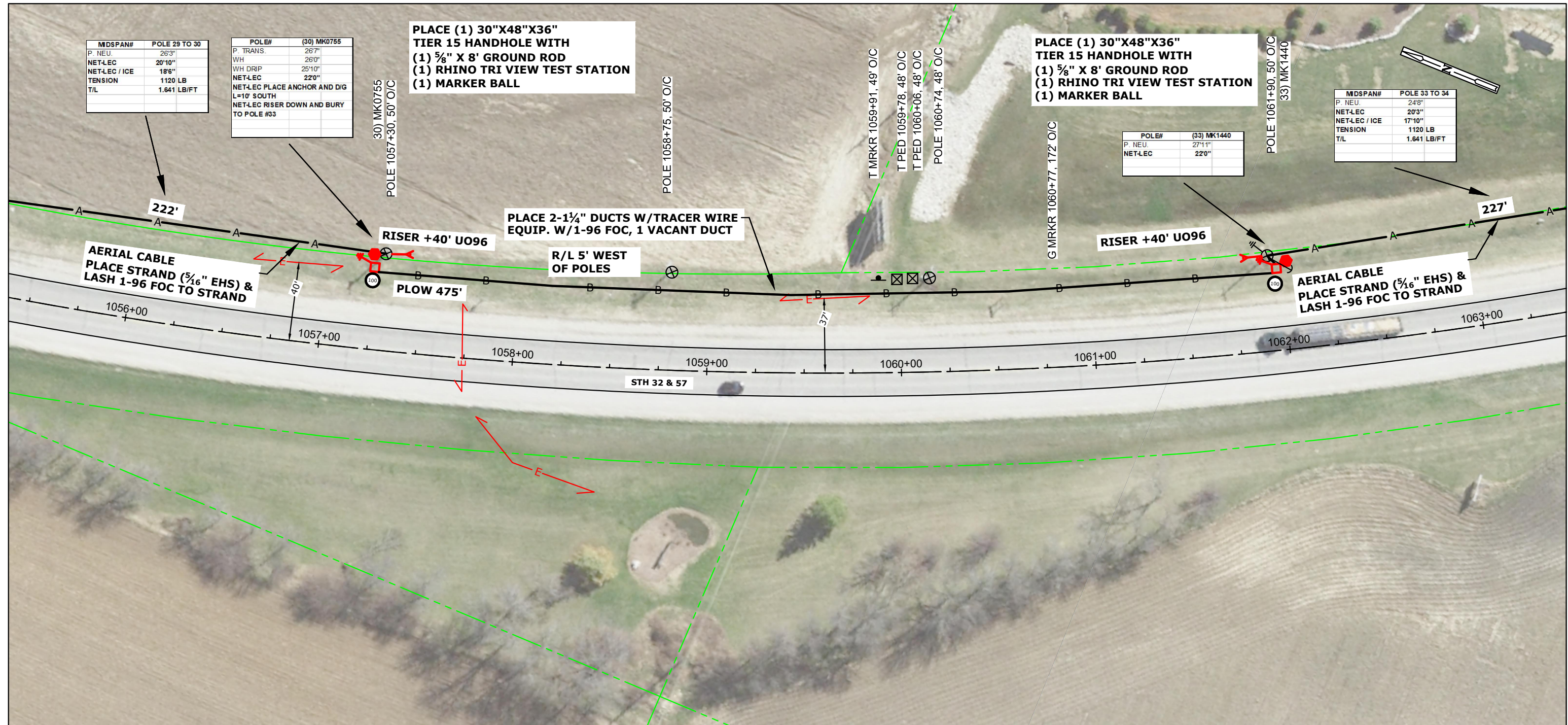
STATIONING INFO		HANDHOLE - MARKER- GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
																																SHEET 130 OF 239	
																																MAP NO.	
																																FILE NAME: Calumet N18-47 SOUTH.dwg	
																																P.O.# NL18-47	
																																DRAFTING BY DATE	
																																BASE AL	
																															DESIGN PC		
																															BUILT		
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT NOT TO SCALE		



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 131 OF 239		
OBJECT	STATION	UH 2 (30x48x36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5"EHS)	PE 1-3 (5"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				
HH	1033+25	1	1	1	2150	1475	675				1																							

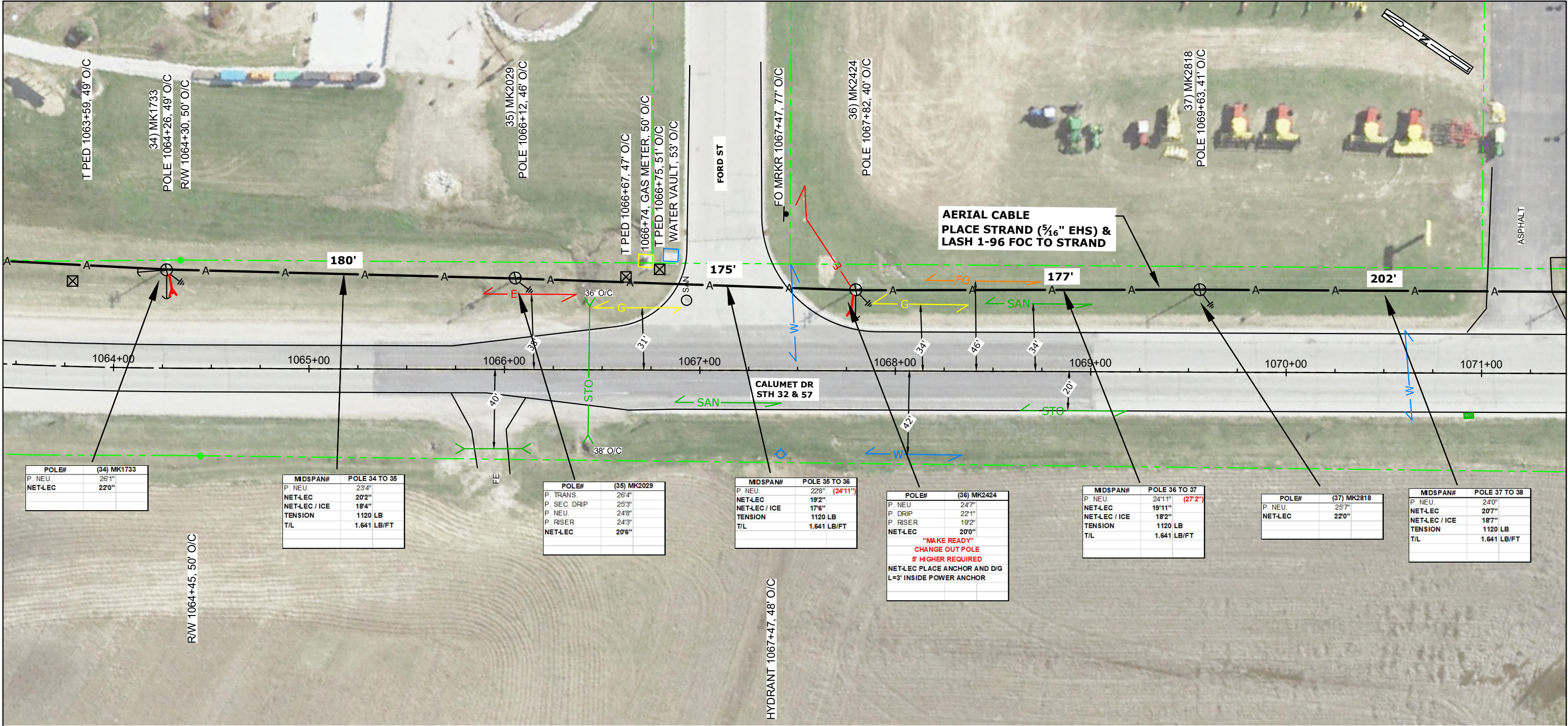
[illegible]

[illegible]



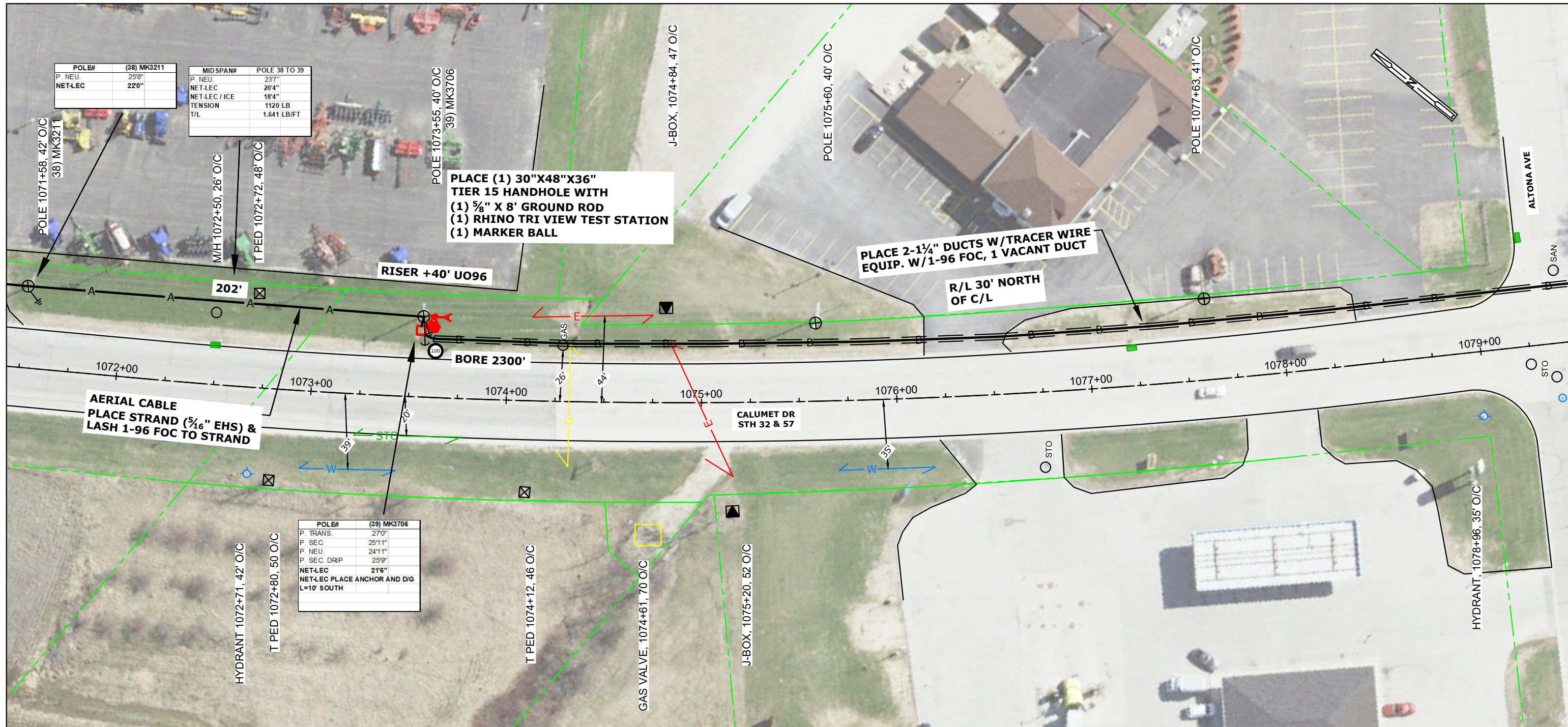
CONT'D PRT 135

CONT'D PRT 134

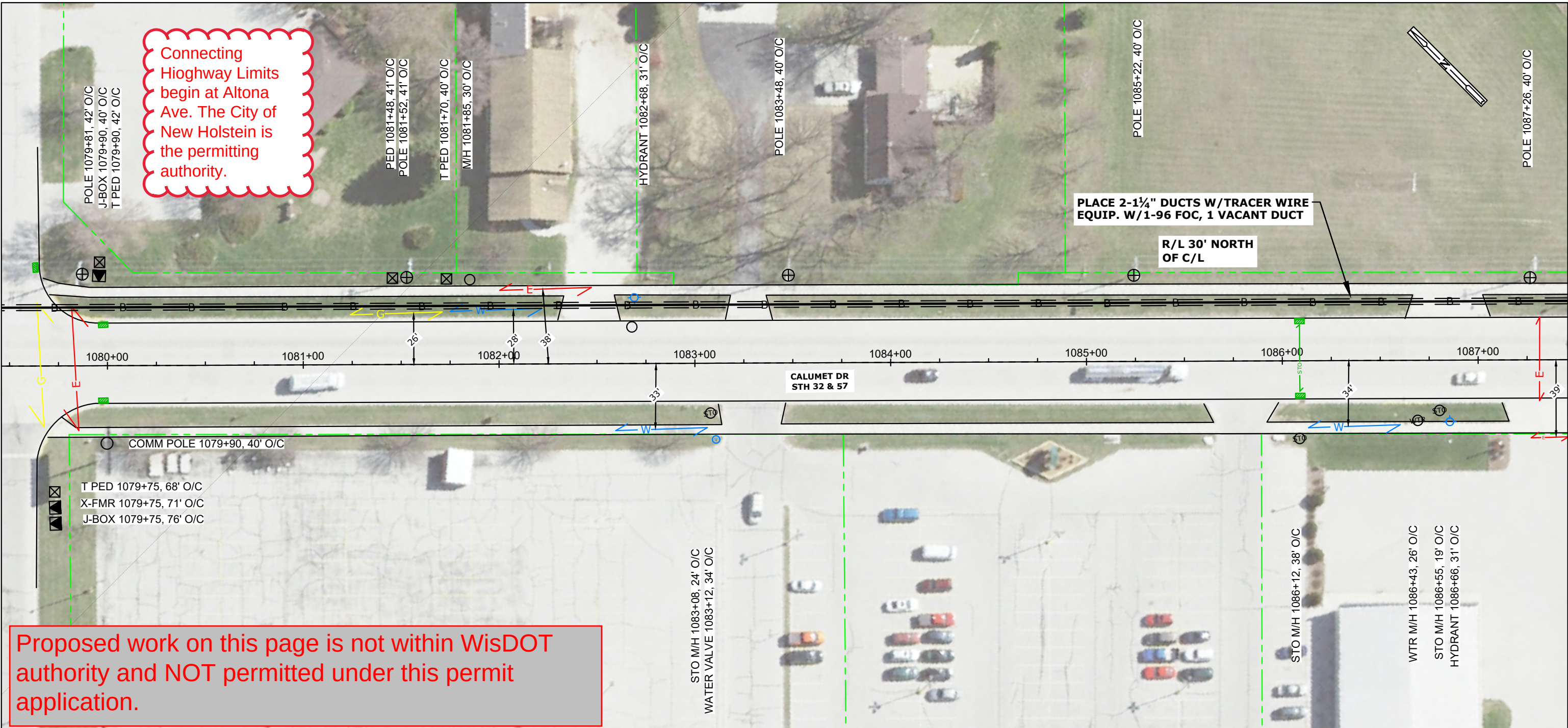


CONT'D PRT 136

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
																															SHEET 135 OF 239			
																															MAP NO.			
																															FILE NAME: Calumet N18-47 SOUTH.dwg			
																															P.O.# NL18-47			
																															DRAFTING		BY	DATE
																															BASE		AL	
																															DESIGN		PC	
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	NOT TO SCALE			

CONT'D PRT 137

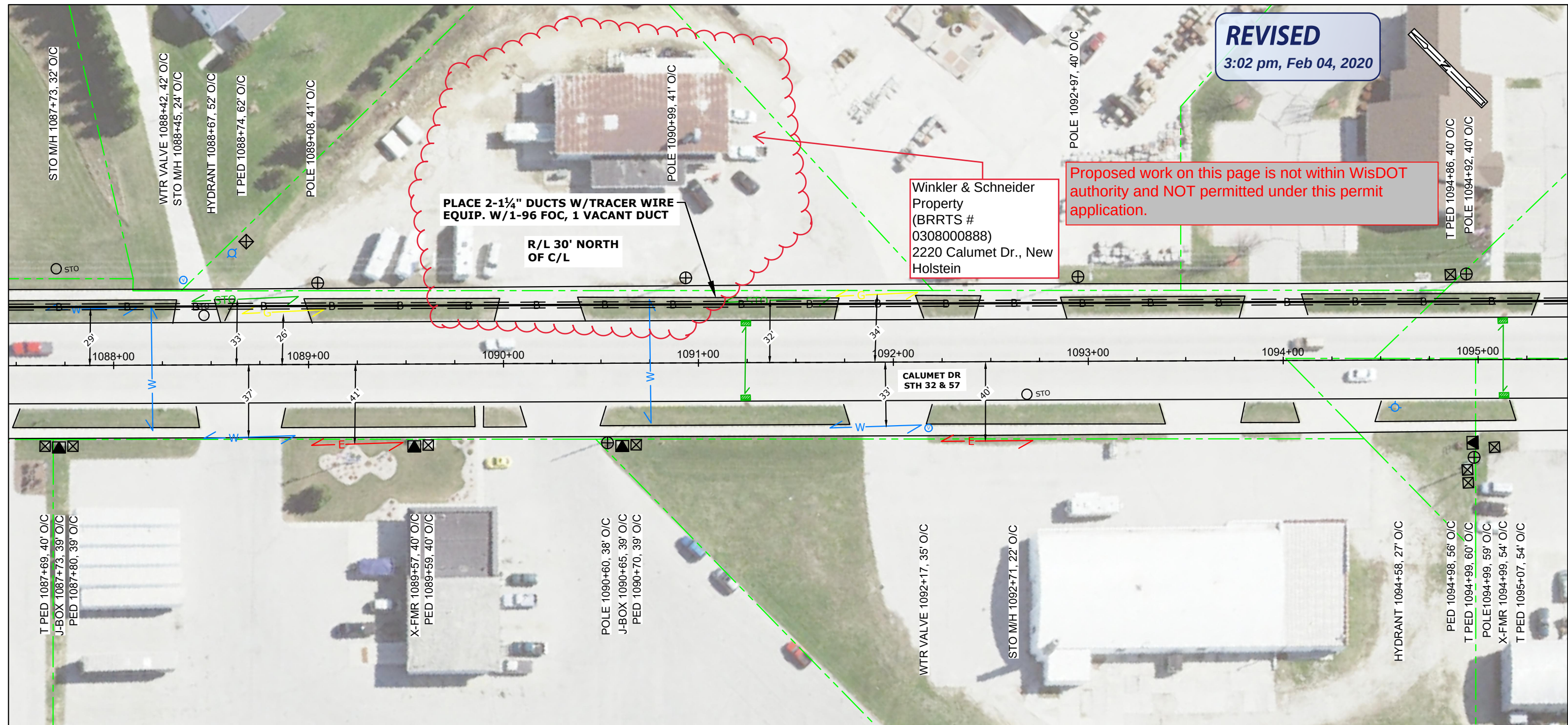
CONT'D PRT 136



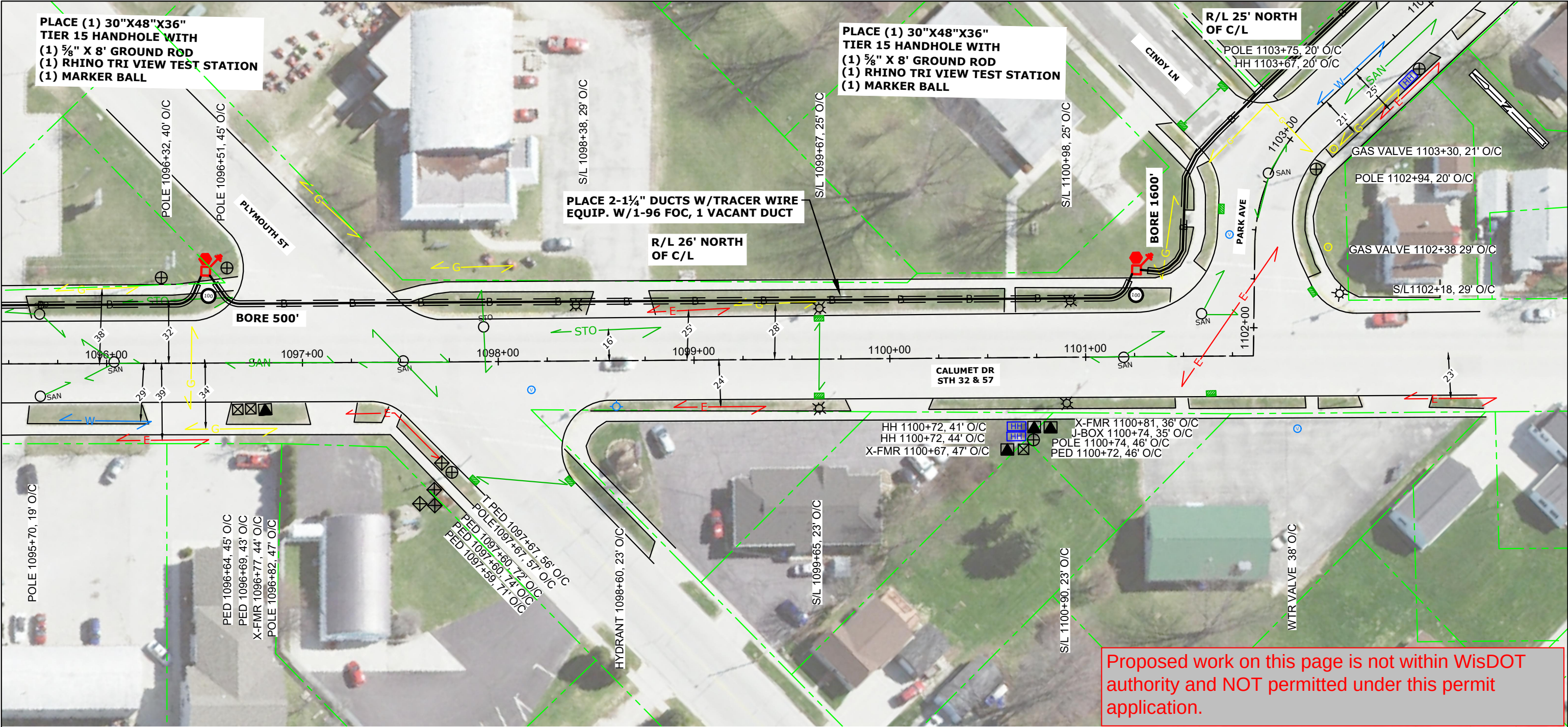
CONT'D PRT 138

Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE			BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
																																	SHEET <u>137</u> OF <u>239</u>			
																																	MAP NO.			
																																	FILE NAME: Calumet N18-47 SOUTH.dwg			
																																	P.O.# NL18-47			
																																	DRAFTING		BY	DATE
																																	BASE		AL	
																																	DESIGN		PC	

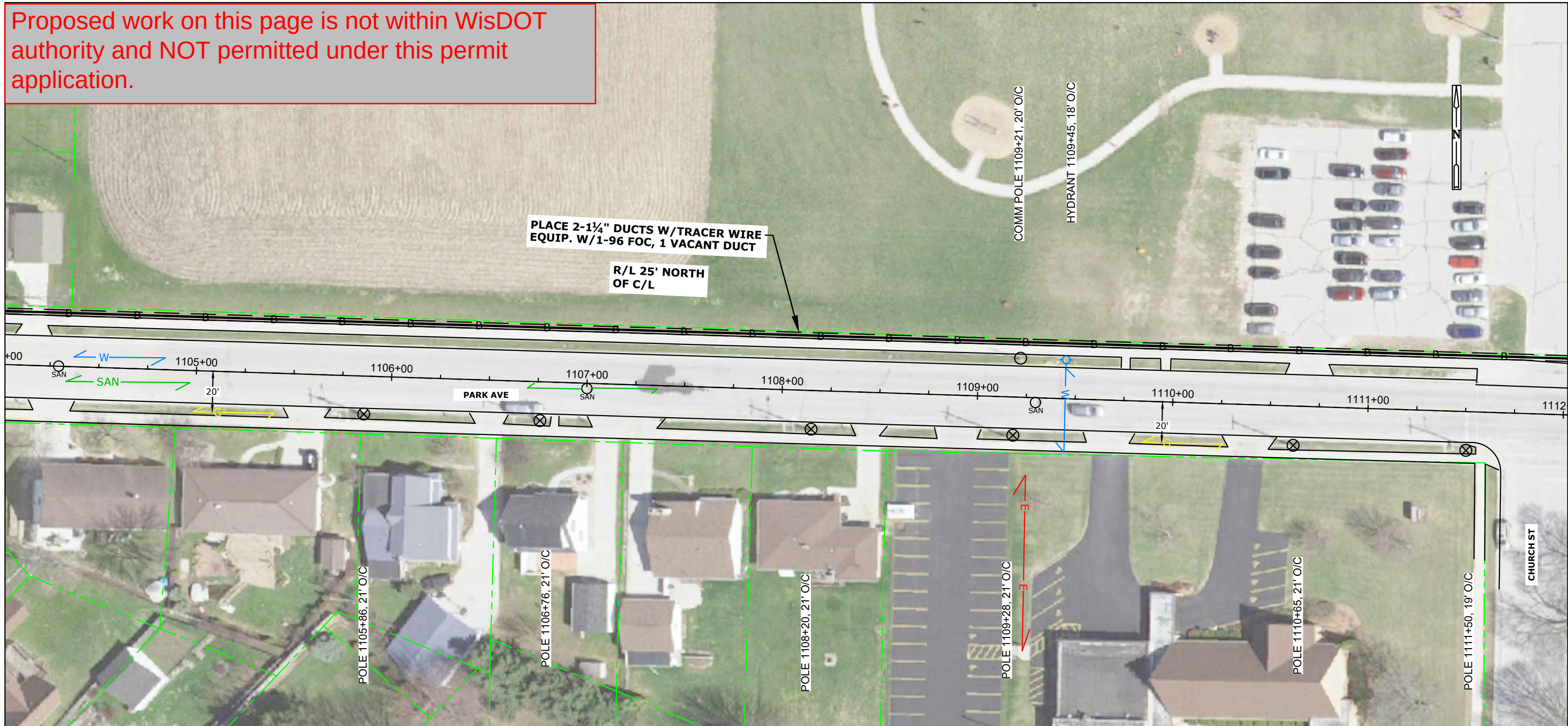


STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES									
OBJECT	STATION	UH 2 (30x48x36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN								
																																	SHEET 138 OF 239							
																																	MAP NO.							
																																	FILE NAME: Calumet N18-47 SOUTH.dwg							
																																	P.O.# NL18-47							
																																	DRAFTING		BY	DATE				
																																	BASE		AL					
																																	DESIGN		PC					
TOTAL:			####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT					NOT TO SCALE		

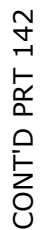


STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES	
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN	
HH	1096+50	1	1	1	2300		2300			1																						SHEET 139 OF 239
HH	1101+50	1	1	1	500		500			1																						

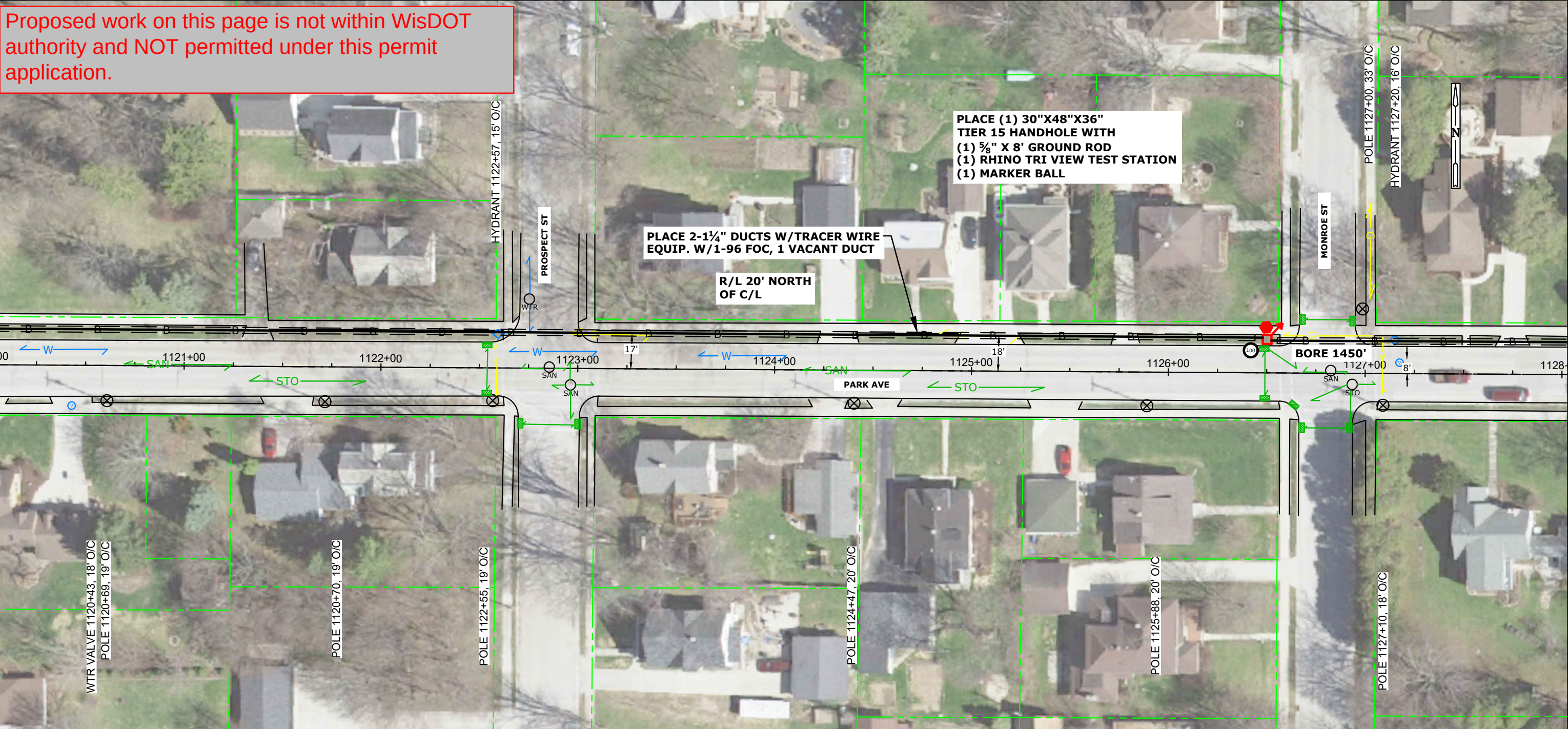
Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

[illegible]

Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

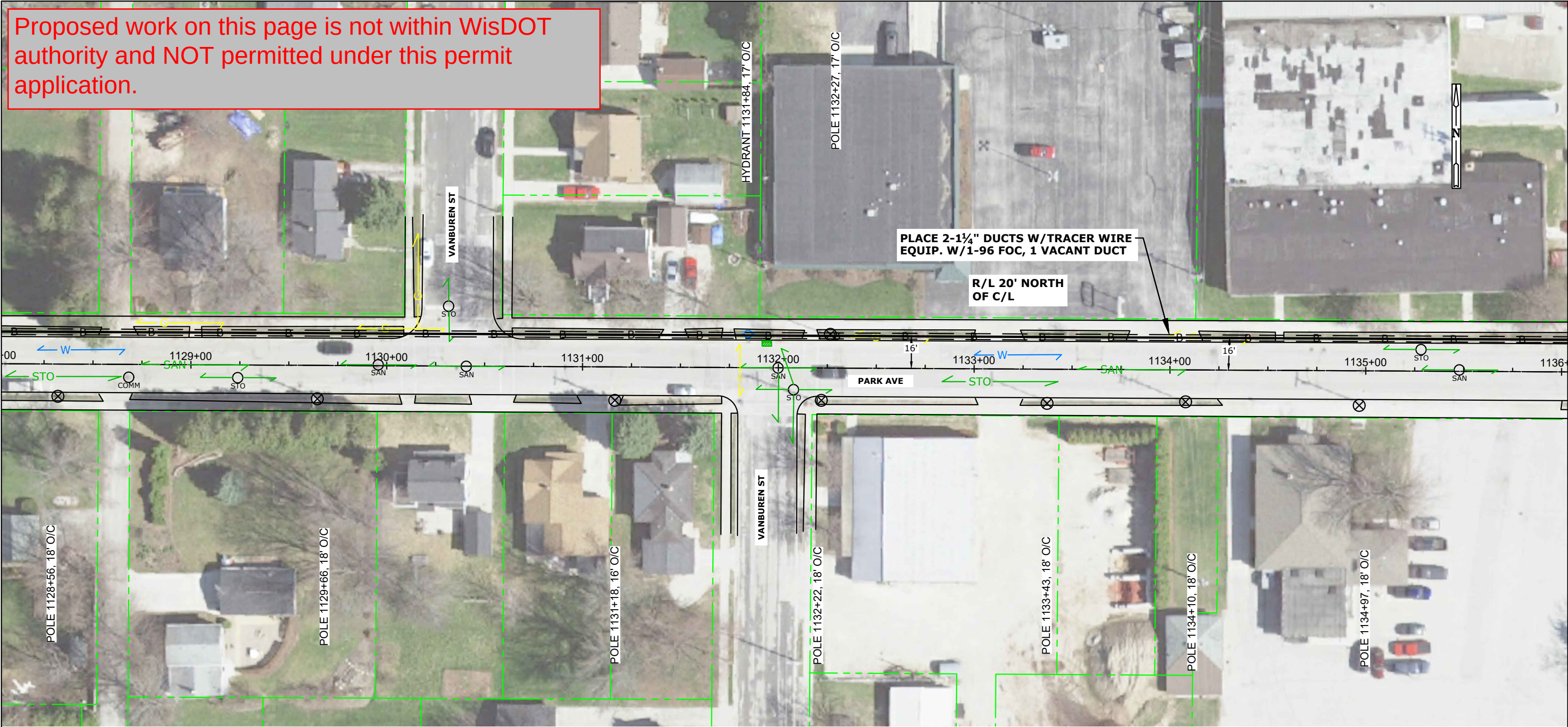
[illegible]

Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

[illegible]

CONT'D PRT 142

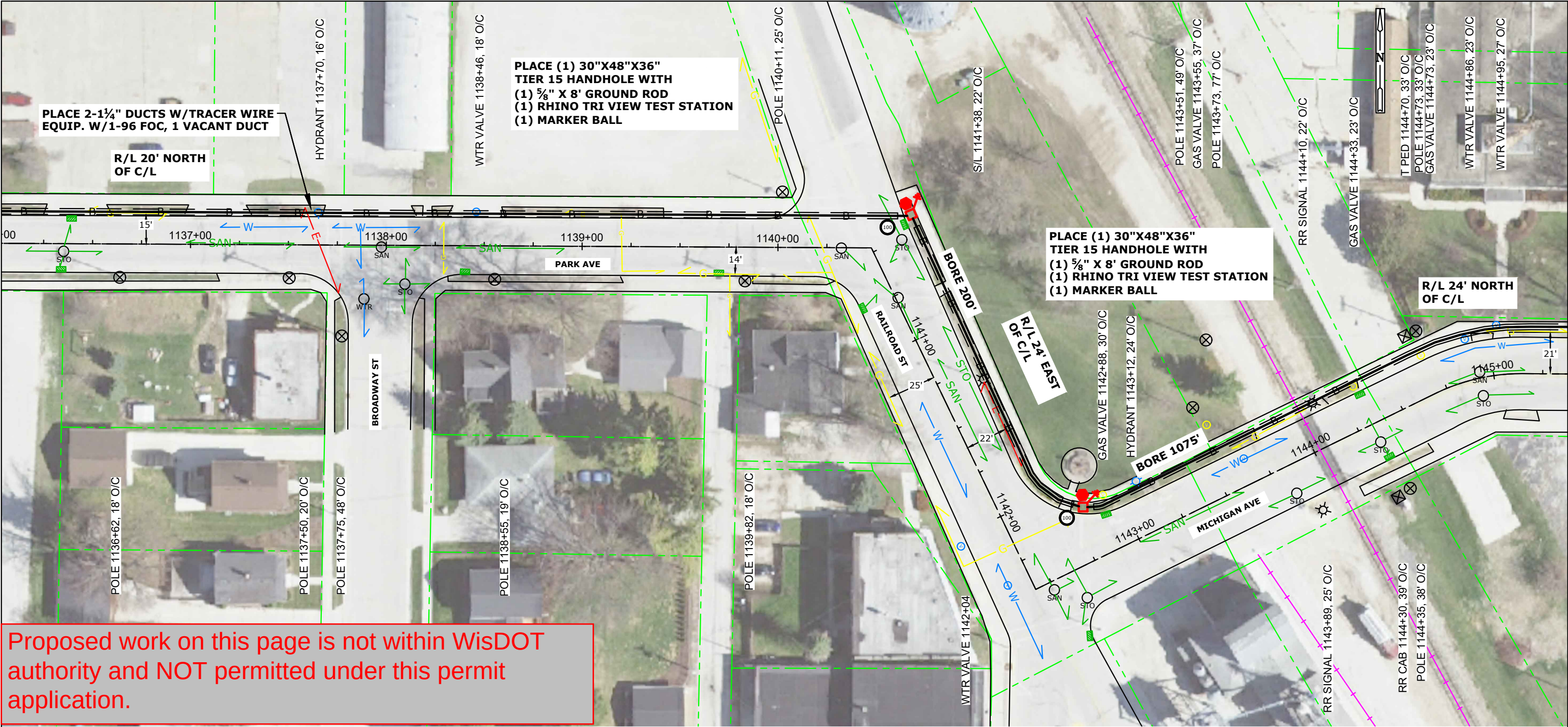
Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.



CONT'D PRT 144

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES			NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 143 OF 239				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA								
											</																											

CONT'D PRT 143



CONT'D PRT 145

Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

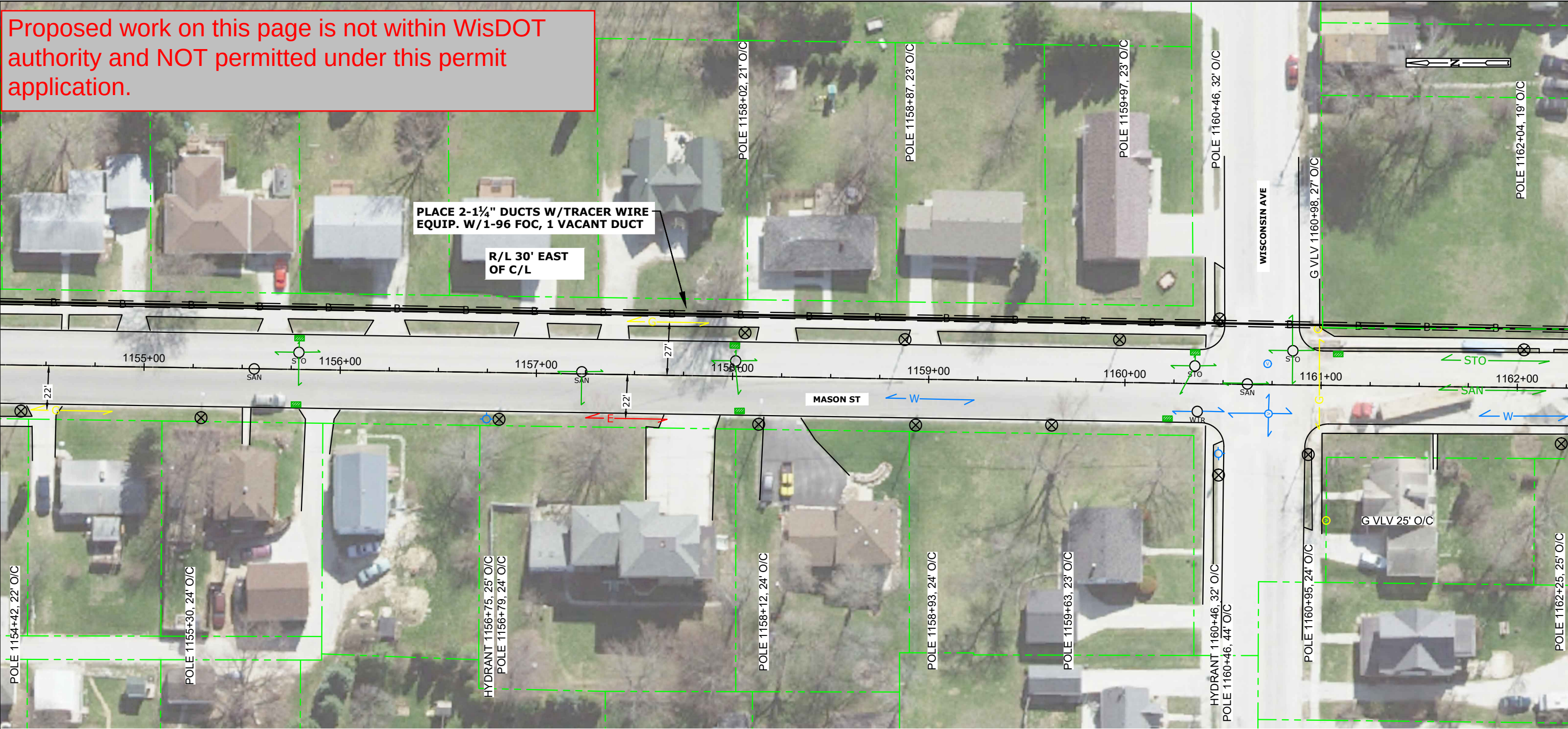
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSOURCES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE	BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5	WHM	PM 21	EPA	SHERWOOD TO PLYMOUTH FIBER BUILD						
HH	1140+75	1	1	1	1450		1450		1																			CALUMET COUNTY, WISCONSIN					
HH	1142+50	1	1	1	200		200		1																			SHEET 144 OF 239					

CONT'D PRT 144

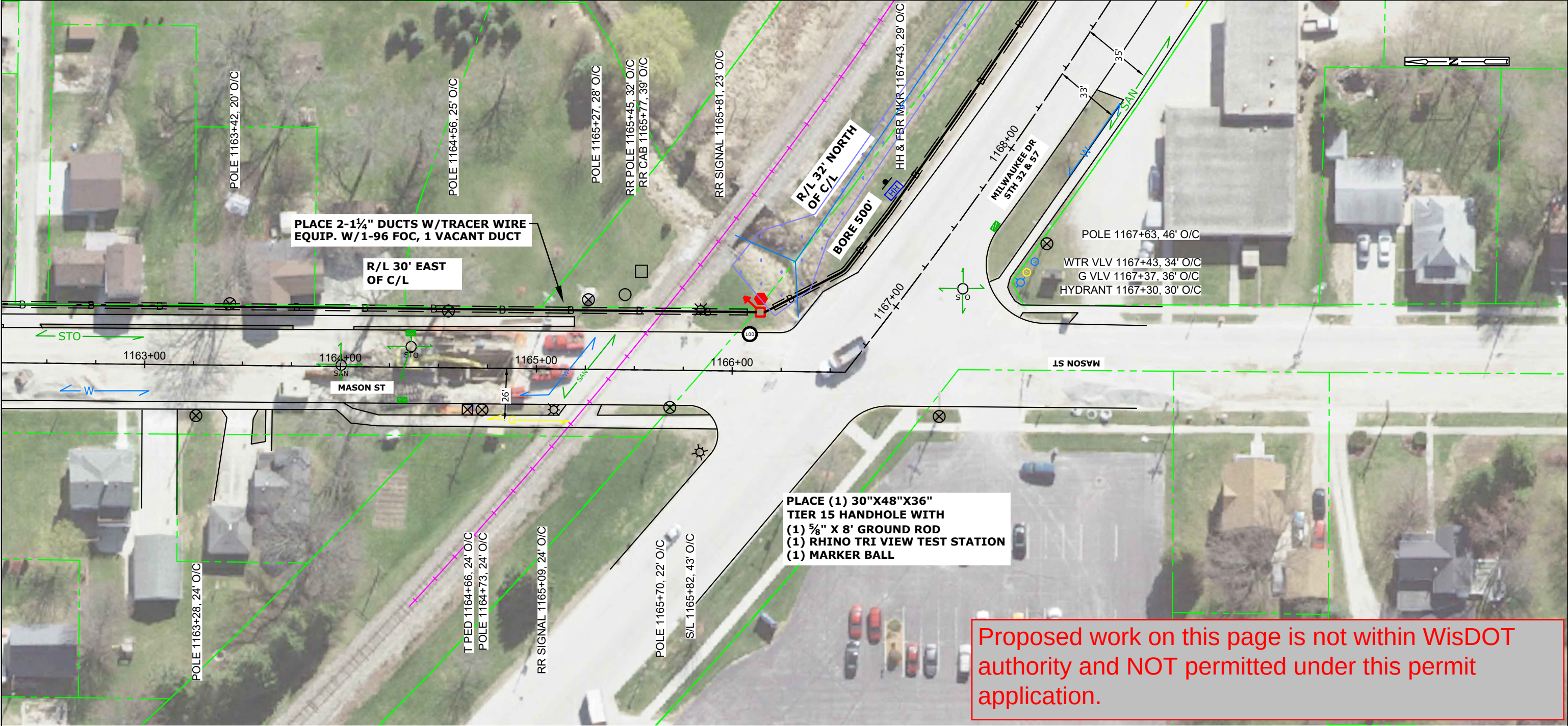


NOT TO SCALE

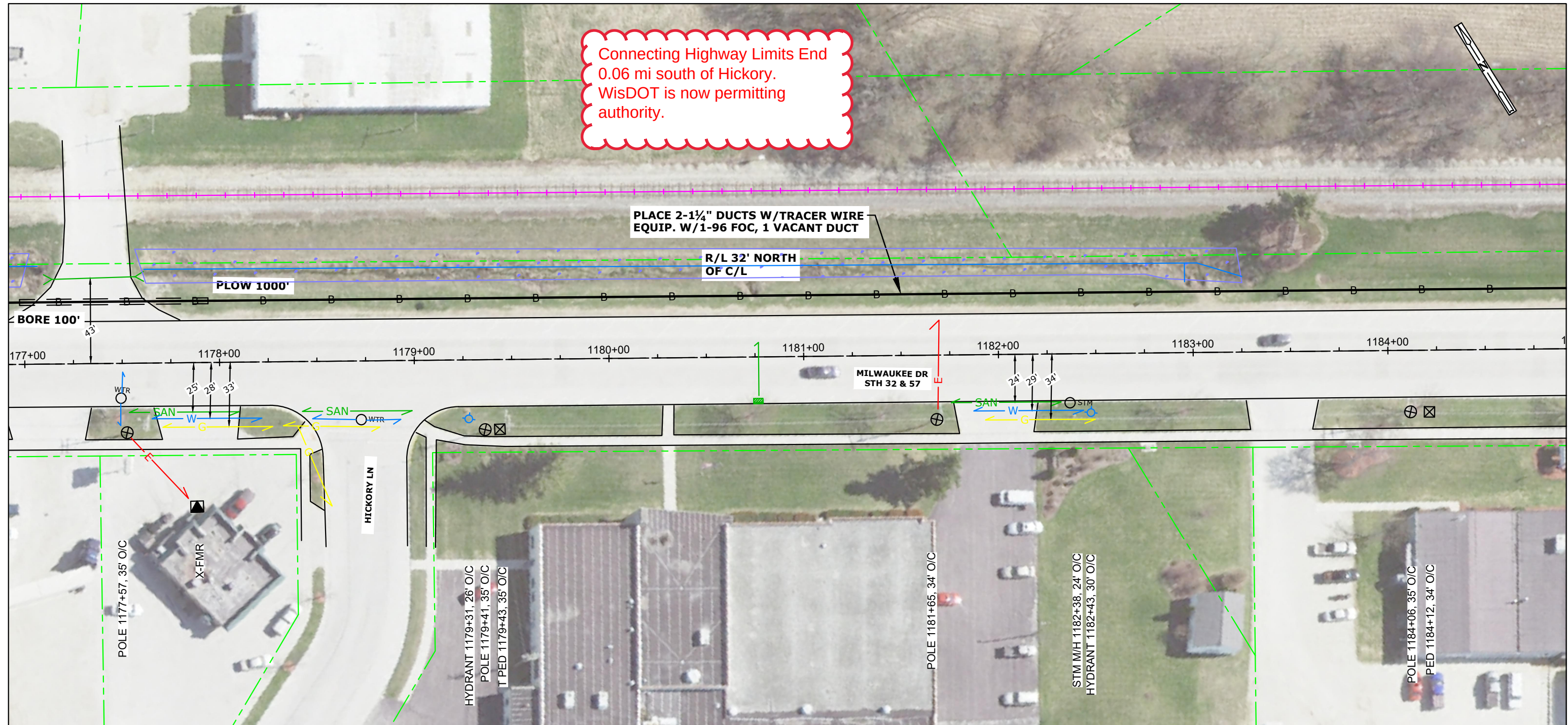
Proposed work on this page is not within WisDOT authority and NOT permitted under this permit application.

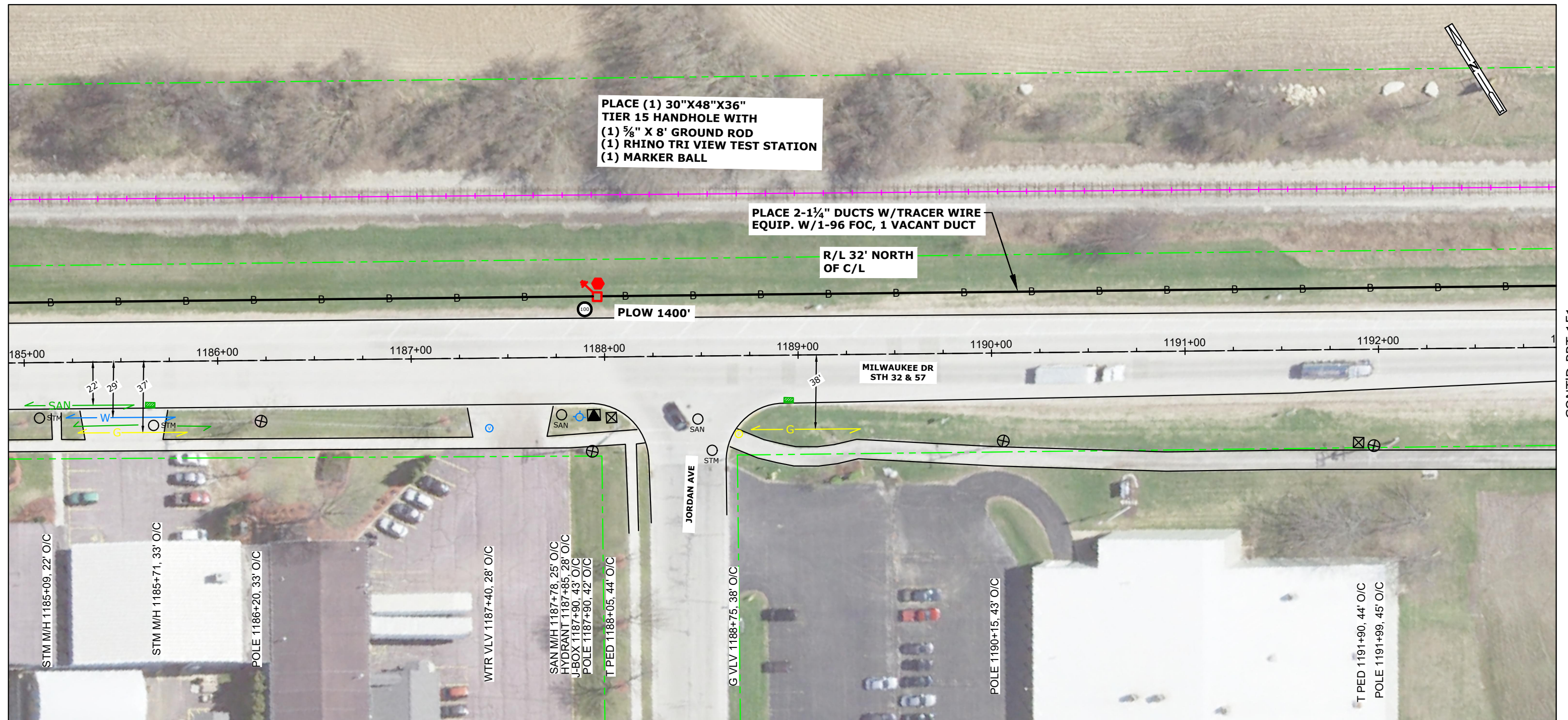
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CONT'D PRT 146



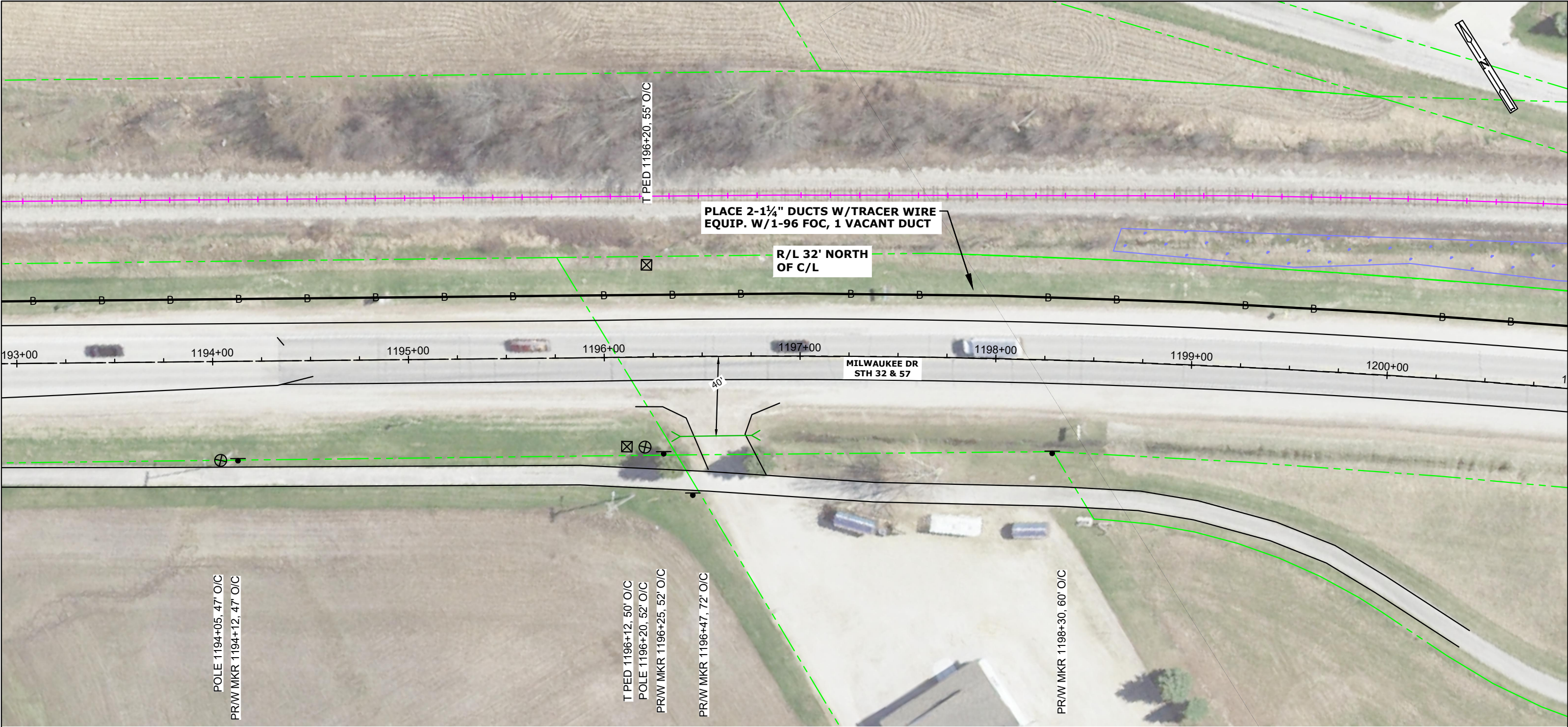
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 147 OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					
HH	1165+00	1	1	1	1300		1300			1																								

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	1188+00	1	1	1	2200	1600	600				1																						SHEET 150 OF 239				
																																	MAP NO.				
																																	FILE NAME: Calumet N18-47 SOUTH.dwg				
																																	P.O.# NL18-47				
																																	DRAFTING		BY	DATE	
																																	BASE		AL		
																																	DESIGN		PC		
TOTAL:		1	1	1	2200	1600	600	####	####	####	1	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

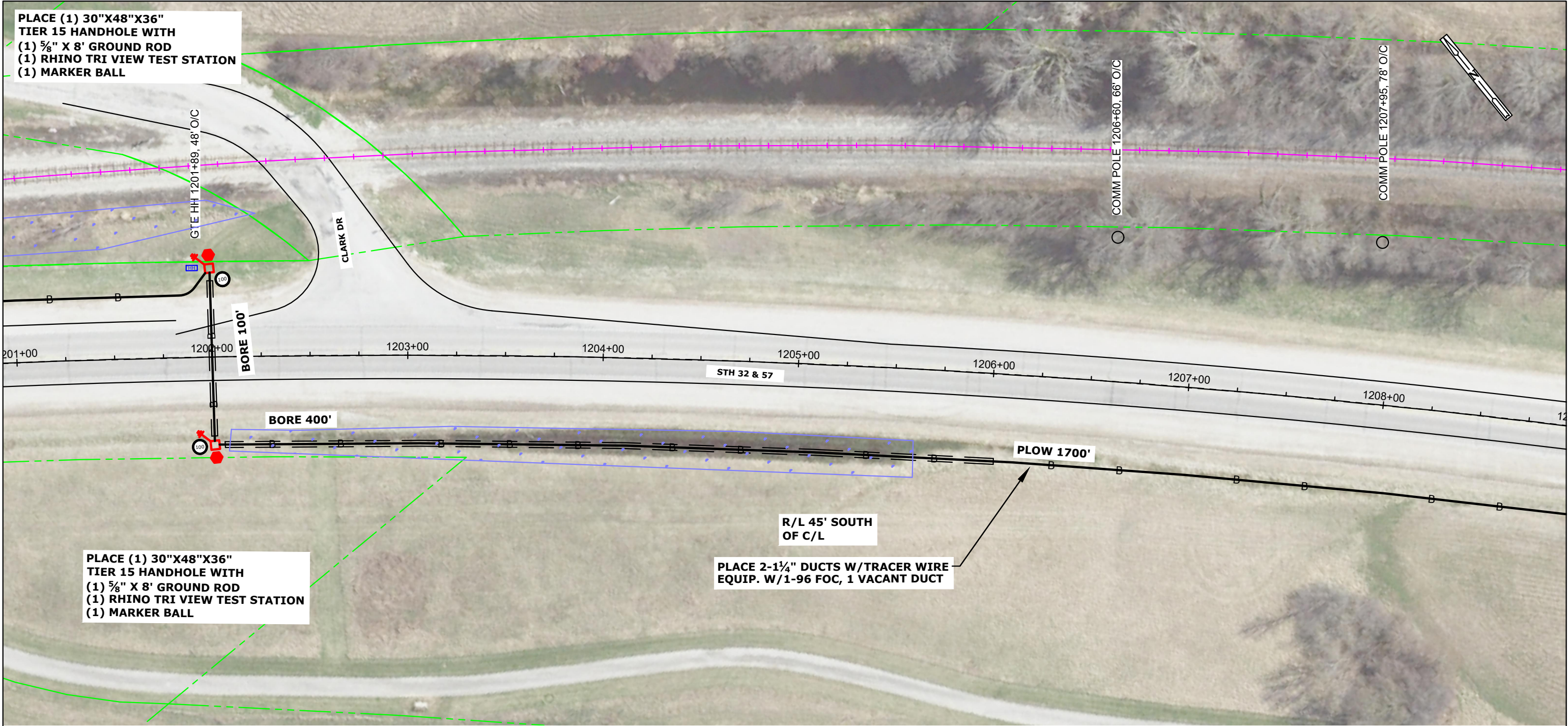
CONT'D PRT 150



CONT'D PRT 152

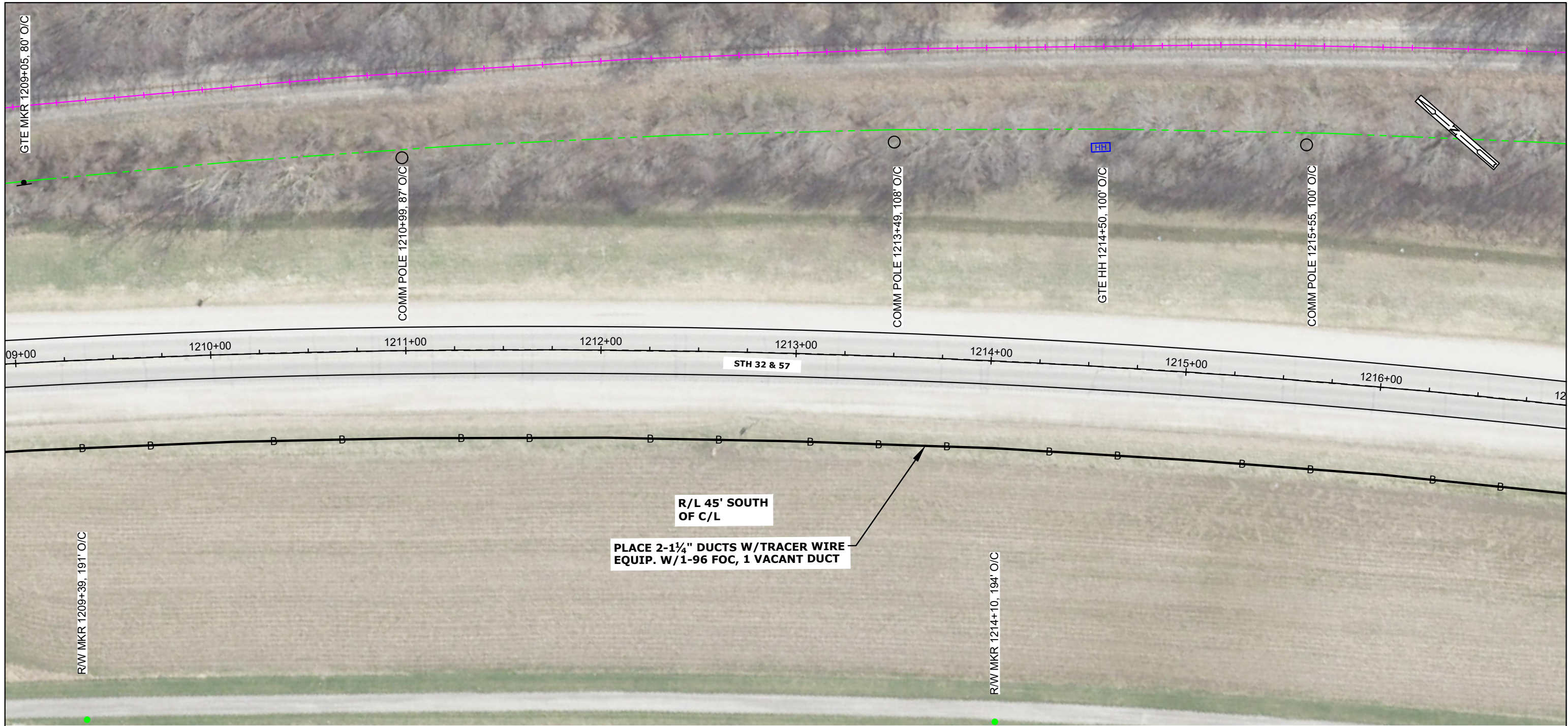
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
																																	SHEET 151 OF 239		
																																	MAP NO.		
																																	FILE NAME: Calumet N18-47 SOUTH.dwg		
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																																	DRAFTING BY DATE		
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																																	DESIGN PC		
																																BUILT			
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT		NOT TO SCALE	

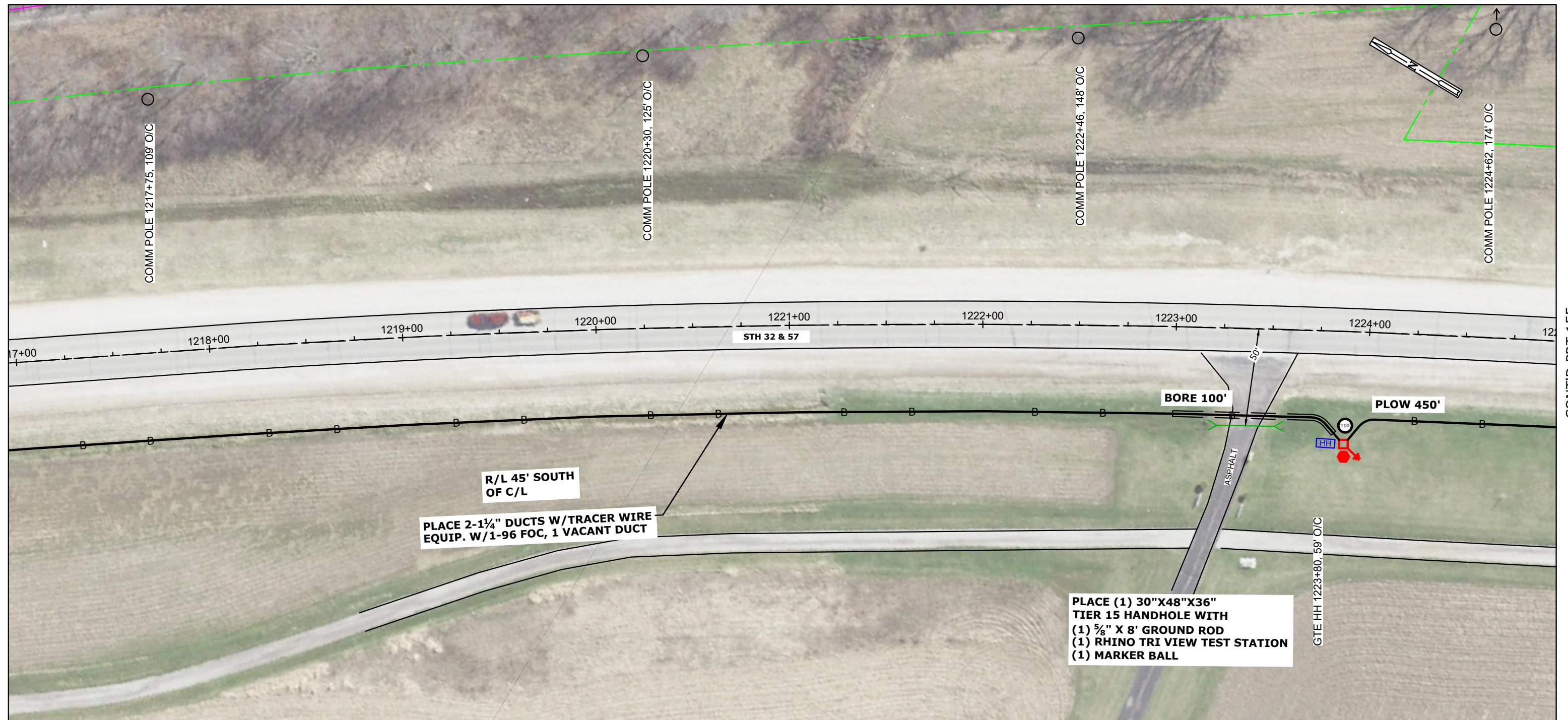
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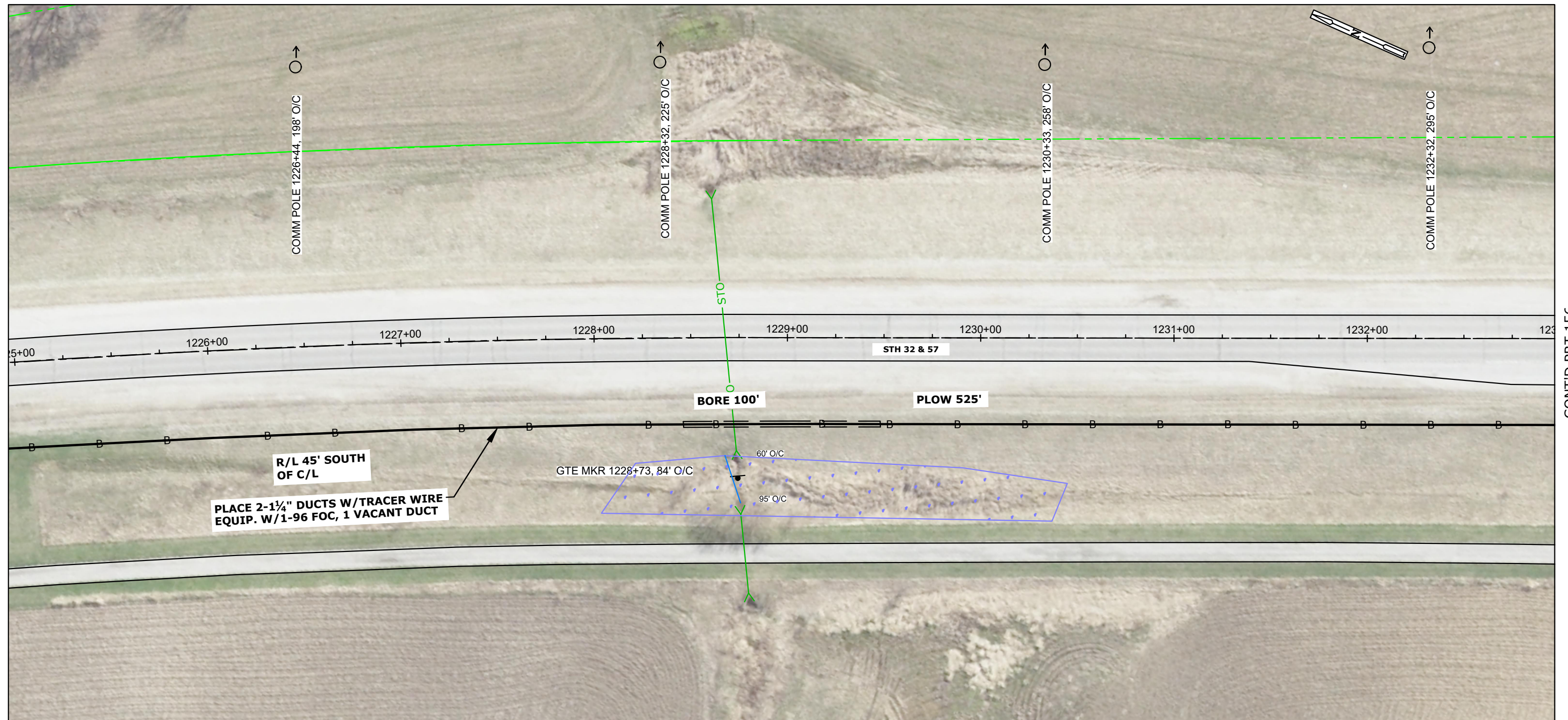


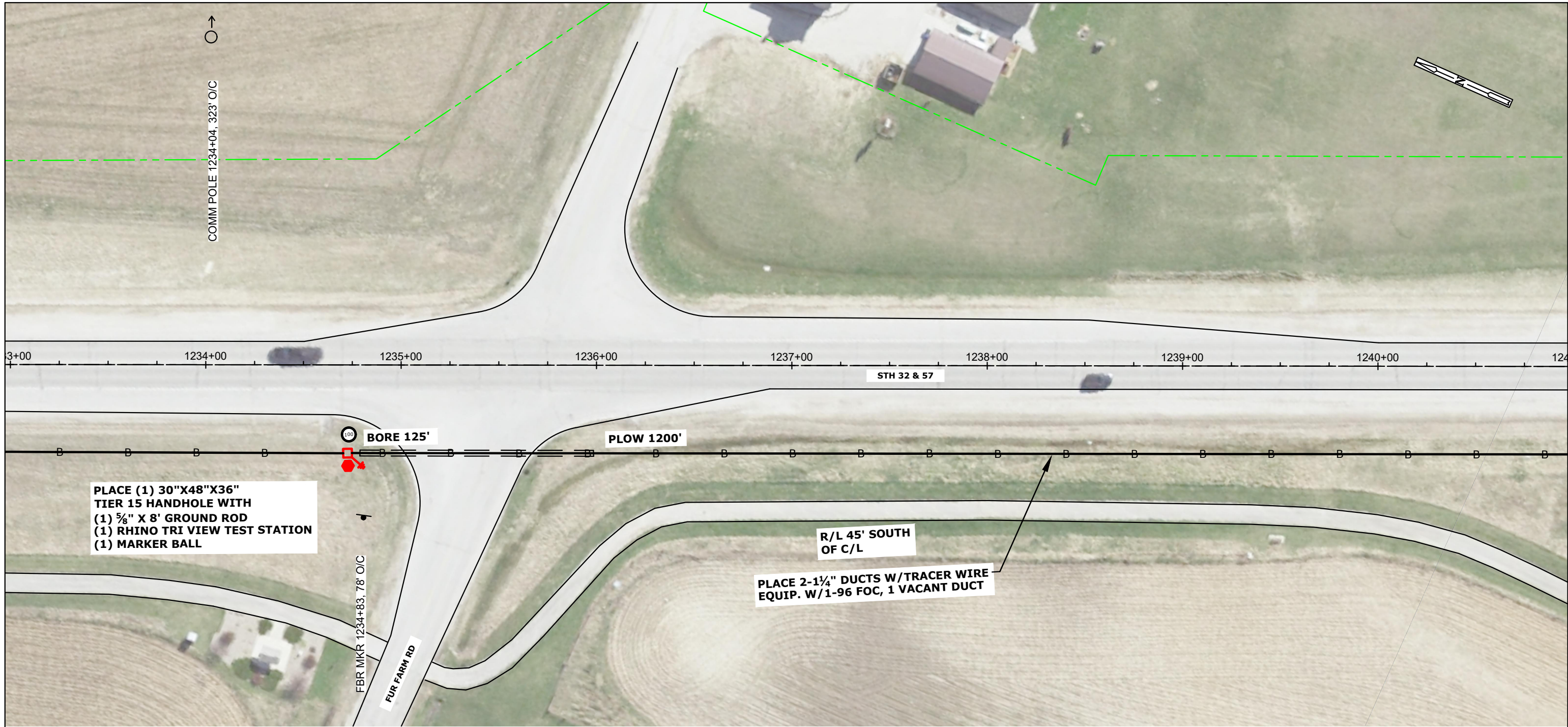
CONT'D PRT 153

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 152 OF 239		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					
HH NO	1202+00	1	1	1	1400	1400				1																								
HH SO	1202+00	1	1	1	100		100			1																								

[illegible]

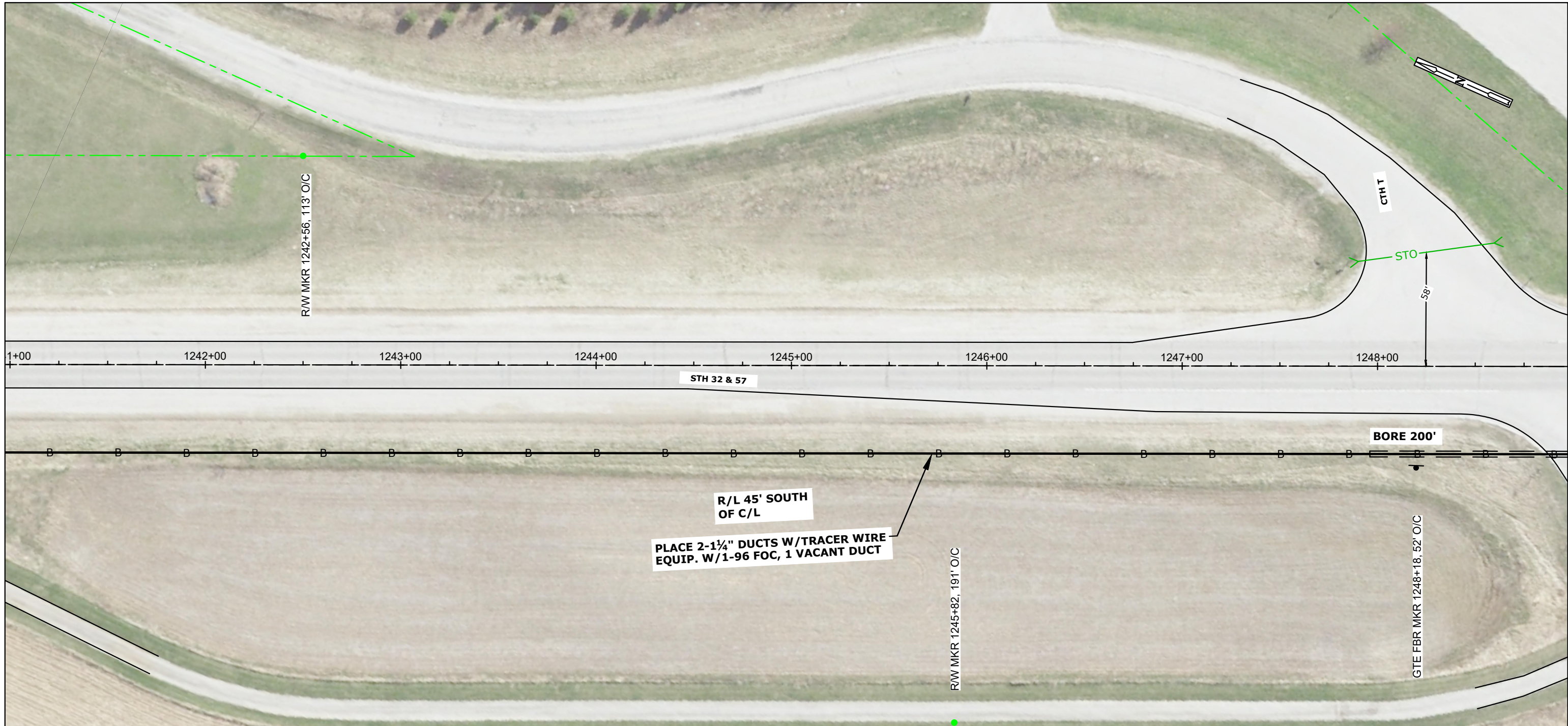
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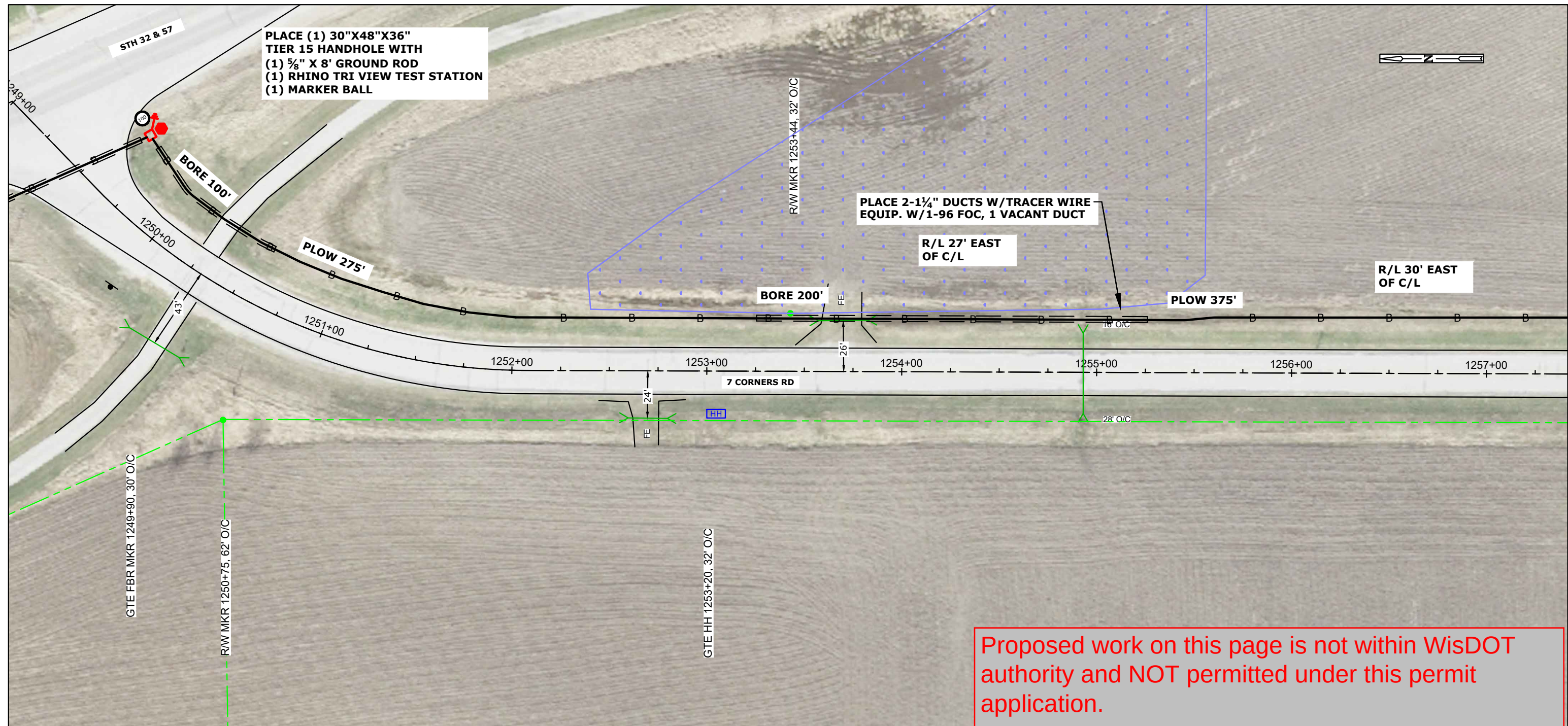
STATIONING INFO		HANDHOLE - MARKER- GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES	
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	1234+75	1	1	1	1075	975	100			1																						SHEET 156 OF 239	

CONT'D PRT 156



CONT'D PRT 158

STATIONING INFO		HANDHOLE - MARKER- GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES	NSIGHT TELSERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN		
																																SHEET 157 OF 239	
																																MAP NO.	
																																FILE NAME: Calumet N18-47 SOUTH.dwg	
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TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT NOT TO SCALE		



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[illegible]

From: [Dennis Lafave](#)
To: [DOT DTSD NE UTILITY COORDINATION](#)
Subject: FW: Calumet County Project - DNR Response - Calumet County STH 32_57 and Sheboygan County STH 67 1 of 4
Date: Tuesday, September 17, 2019 10:13:42 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image005.png](#)
[image006.png](#)

Dennis Lafave | OSP Designer

[Mi-Tech Services Inc.](#)

office: 920.465.8018 x8915 | fax: 920.465.8163 | cell: 920.619.9774

DLAFAVE@mi-tech.us | www.mi-tech.us

1345 North Road, Suite B

Green Bay, WI 54313



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From: Stephanie Finamore

Sent: Tuesday, September 17, 2019 9:35 AM

To: Dennis Lafave <DLAFAVE@mi-tech.us>

Subject: FW: Calumet County Project - DNR Response - Calumet County STH 32_57 and Sheboygan County STH 67 1 of 4

Stephanie Finamore | M.S., P.G., Environmental Manager

[Mi-Tech Services Inc.](#)

office: 715.359.9400 x5232 | cell: 715.393.5394

sfinamor@mi-tech.us | www.mi-tech.us

PO Box 107 | 5707 Schofield Ave.

Weston, WI 54476



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From: Tekler, Lindsay M - DNR [<mailto:Lindsay.Tekler@wisconsin.gov>]

Sent: Tuesday, September 17, 2019 9:31 AM

To: Benjamin Sturm <bsturm@mi-tech.us>

Cc: Stephanie Finamore <sfinamor@mi-tech.us>

Subject: RE: Calumet County Project - DNR Response - Calumet County STH 32_57 and Sheboygan County STH 67 1 of 4

Hi Ben,

Thank you for contacting the WDNR Office of Energy regarding your utility project and potential resource impacts.

The project as described below will not require a waterway permit under Chapter 30 (Wis. Statutes), or the submission of a wetland permit application under Chapter 281.36 (Wis. Statutes). However, please note that this assumes any bore pits placed in wetland will impact less than 400 sq. ft. total of wetland. All wetland impacts must also be restored to pre-existing conditions, and all other standards, terms, and conditions of [WDNR-GP3-2018](#) must be met.

During the bore operation, please monitor the bore path across sensitive resources for inadvertent frac-outs. Please make sure the contractor has appropriate materials on site to contain and clean up a frac-out in wetlands and waterways if one should occur.

This email is not providing wetland boundary concurrence for the purposes of any DNR permit applications.

Please note that this determination did not include a review for approvals or permits needed for:

- [Cultural/archaeological/historical resources](#),
- [state threatened or endangered species](#),
- [state stormwater/erosion control permitting](#) (required if total projects land disturbance exceeds 1 acre),
- [state wastewater permitting](#) (such as pit/trench dewatering), or
- easements needed for crossing of [WDNR property](#) (state lands, state trails, etc.)

Disclaimer: This WDNR jurisdictional determination is based only on the project area/route shown on the figures provided by the requester. If your project area/route extends beyond the area shown in the figures, those additional work areas/route were not evaluated for permitting requirements by the WDNR, and you are responsible for ensuring that those additional work areas/route are in compliance with all applicable local, state, and federal laws and permitting requirements as well.

Please contact me if your plans change, or if you have any questions.

Thanks!

Lindsay Tekler

Energy Project Liaison

Office of Energy - <https://dnr.wi.gov/topic/Sectors/Energy.html>

Wisconsin Department of Natural Resources

Phone: (608) 535-2602

Email: Lindsay.Tekler@wisconsin.gov

From: Benjamin Sturm <bsturm@mi-tech.us>

Sent: Friday, September 13, 2019 12:59 PM

To: Tekler, Lindsay M - DNR <Lindsay.Tekler@wisconsin.gov>

Cc: Stephanie Finamore <sfinamor@mi-tech.us>

Subject: FW: Calumet County Project - DNR Response - Calumet County STH 32_57 and Sheboygan County STH 67 1 of 4

Good Afternoon Lindsay,

After receiving this email from you regarding the NSight -Sherwood to Elkhart Lake Project, we received the go ahead from our client to complete a wetland delineation along the project route. The delineation was recently completed and the plans were updated with the new data. Could you please check over the revised plans and respond with your concurrence or changes that need to be made.

The updated plans can be accessed here:

<https://app.box.com/s/3zypmumt6003i3tnu9uyd0ak9xjiw4ry>

If you are unable to download from the link let me know and I will break the plans up and email to you (the file is 200 mb).

Thank you and have a great weekend!

Benjamin Sturm | Environmental Technician

Mi-Tech Services Inc.

office: 715.359.9400 x5227 | cell: 715.470.3019

bsturm@mi-tech.us | www.mi-tech.us

PO Box 107 | 5707 Schofield Avenue

Weston, WI 54476



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From: Tekler, Lindsay M - DNR [<mailto:Lindsay.Tekler@wisconsin.gov>]

Sent: Tuesday, August 20, 2019 10:30 AM

To: Jeff Zeinert <jzeinert@mi-tech.us>

Subject: RE: Utility Permit Application - Calumet County - STH 32_57 - 1 of 4

Hi Jeff,

Thank you for providing that additional information.

The attached projects, and as described below, will not require a waterway permit under Chapter 30 (Wis. Statutes), or the submission of a wetland permit application under Chapter 281.36 (Wis. Statutes). However, please note that this assumes any bore pits placed in wetland will impact less than 400 sq. ft. total of wetland. DNR assumes both the orange and pink/purple polygons are

wetlands, unless a wetland delineation is conducted. All wetland impacts must also be restored to pre-existing conditions, and all other standards, terms, and conditions of [WDNR-GP3-2018](#) must be met. This also assumes any waterways will be directionally bored and/or not crossed by vehicles across the waterway channel itself for vehicle access.

During the bore operation, please monitor the bore path across sensitive resources for inadvertent frac-outs. Please make sure the contractor has appropriate materials on site to contain and clean up a frac-out in wetlands and waterways if one should occur.

I think I forgot to “reply all” in my previous email responses I sent you for the other projects, so please make sure WisDOT staff get a copy of this and those emails for your WisDOT permit applications.

Please note that this determination did not include a review for approvals or permits needed for:

- [Cultural/archaeological/historical resources](#),
- [state threatened or endangered species](#),
- [state stormwater/erosion control permitting](#) (required if total projects land disturbance exceeds 1 acre),
- [state wastewater permitting](#) (such as pit/trench dewatering), or
- easements needed for crossing of [WDNR property](#) (state lands, state trails, etc.)

Disclaimer: This WDNR jurisdictional determination is based only on the project area/route shown on the attached figures provided by the requester. If your project area/route extends beyond the area shown in the attached figures, those additional work areas/route were not evaluated for permitting requirements by the WDNR, and you are responsible for ensuring that those additional work areas/route are in compliance with all applicable local, state, and federal laws and permitting requirements as well.

Please contact me if your plans change, or if you have any questions.

Thanks!

Lindsay Tekler

Energy Project Liaison

Office of Energy - <https://dnr.wi.gov/topic/Sectors/Energy.html>

Wisconsin Department of Natural Resources

Phone: (608) 535-2602

Email: Lindsay.Tekler@wisconsin.gov

From: Jeff Zeinert <jzeinert@mi-tech.us>

Sent: Monday, August 19, 2019 8:28 AM

To: Tekler, Lindsay M - DNR <Lindsay.Tekler@wisconsin.gov>

Subject: RE: Utility Permit Application - Calumet County - STH 32_57 - 1 of 4

Good morning Lindsay,

Attached are new Surface Water Data Maps that encompass both the 32/57 and 67 areas you are looking for. I also a new set of project overview sheets as I noticed the ones I sent previous were not a complete set (sorry about that). Thank you for your help.

Jeff Zeinert | OSP Technician

Mi-Tech Services Inc.

cell: 920.655.5135

jzeinert@mi-tech.us | www.mi-tech.us

1345 North Road, Suite B

Green Bay, WI 54313



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From: Tekler, Lindsay M - DNR [<mailto:Lindsay.Tekler@wisconsin.gov>]

Sent: Friday, August 16, 2019 12:22 PM

To: Jeff Zeinert <jzeinert@mi-tech.us>

Subject: RE: Utility Permit Application - Calumet County - STH 32_57 - 1 of 4

Hi Jeff,

For this Calumet County STH 32_57 submittal and the Sheboygan STH 67 submittal, are you able to add in the wetland boundaries to the aerial plan set pages (like how the other Calumet Co submittal had)? There appears to be a good amount of wetland for both the STH 32_57 and STH 67 projects based on the aerial imagery, so I need to make sure those wetland boundaries are marked on the project plans to determine if these projects need wetland permits from the DNR or not.

The print out maps from the Surface Water Data Viewer are too zoomed out for me to review the project area, unfortunately.

Please let me know if you have any questions.

Thanks!

Lindsay Tekler

Energy Project Liaison

Office of Energy - <https://dnr.wi.gov/topic/Sectors/Energy.html>

Wisconsin Department of Natural Resources

Phone: (608) 535-2602

Email: Lindsay.Tekler@wisconsin.gov

From: Jeff Zeinert <jzeinert@mi-tech.us>

Sent: Wednesday, August 14, 2019 1:56 PM

To: DOT DTSD NE UTILITY COORDINATION <dot.dtsd.ne.utility@dot.wi.gov>; Tekler, Lindsay M - DNR
<Lindsay.Tekler@wisconsin.gov>

Subject: Utility Permit Application - Calumet County - STH 32_57 - 1 of 4

Attached please find the DOT permit application and associated documents for a planned fiber optic build in Calumet County (STH 32/57). This is the first of four emails containing documents.

Jeff Zeinert | OSP Technician

Mi-Tech Services Inc.

cell: 920.655.5135

jzeinert@mi-tech.us | www.mi-tech.us

1345 North Road, Suite B

Green Bay, WI 54313



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SDD 15D28 Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

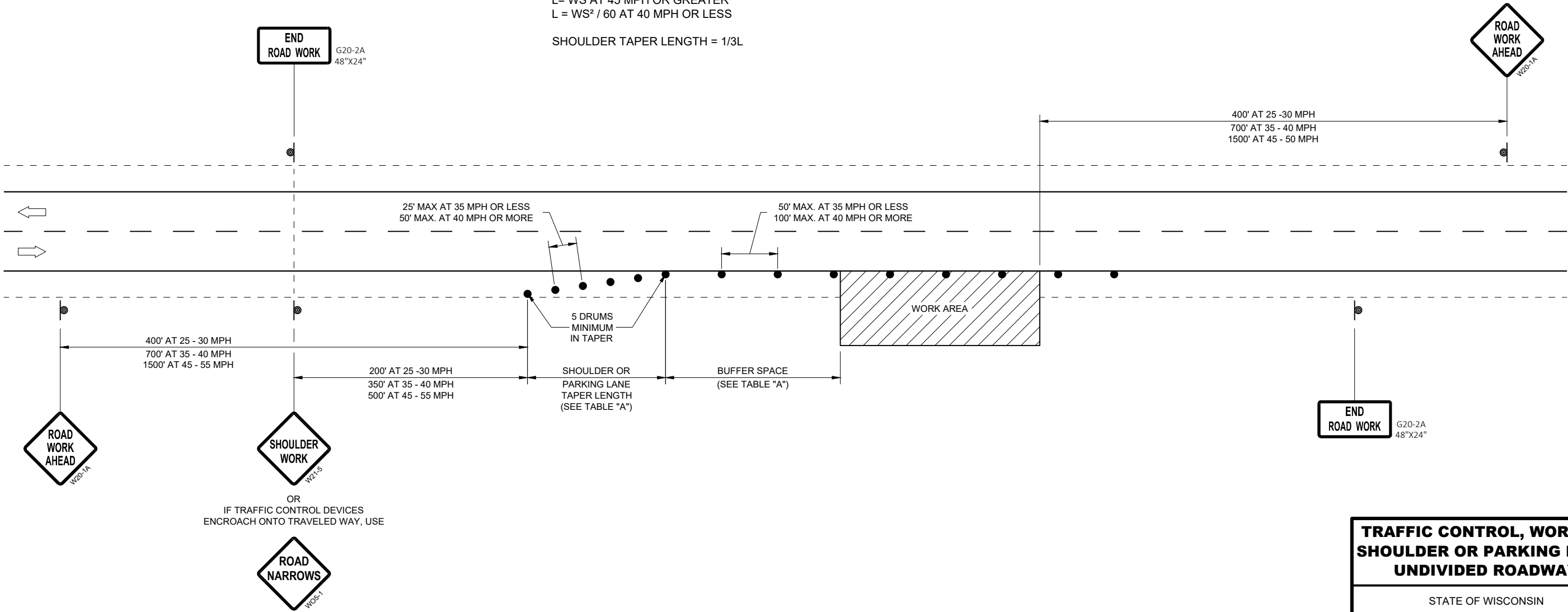
If the shoulder closure encroaches over the travel way edgeline, a lane closure with flagging is required to be in place instead of the shoulder closure.

6

6

SDD 15D28 - 03

SDD 15D28 - 03



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER
FHWA



SDD 15C12 Traffic Control for Lane Closure With Flagging Operation

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

A temp full roadway closure is needed for any OH line crossings of STH 32. 2 flagger operation for the OH line crossing can be done. All traffic must be stopped until the OH line has been secured.

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



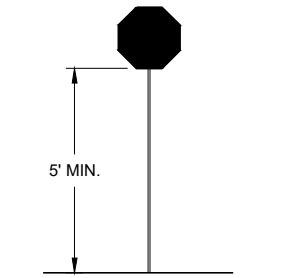
USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".

FLAGGING

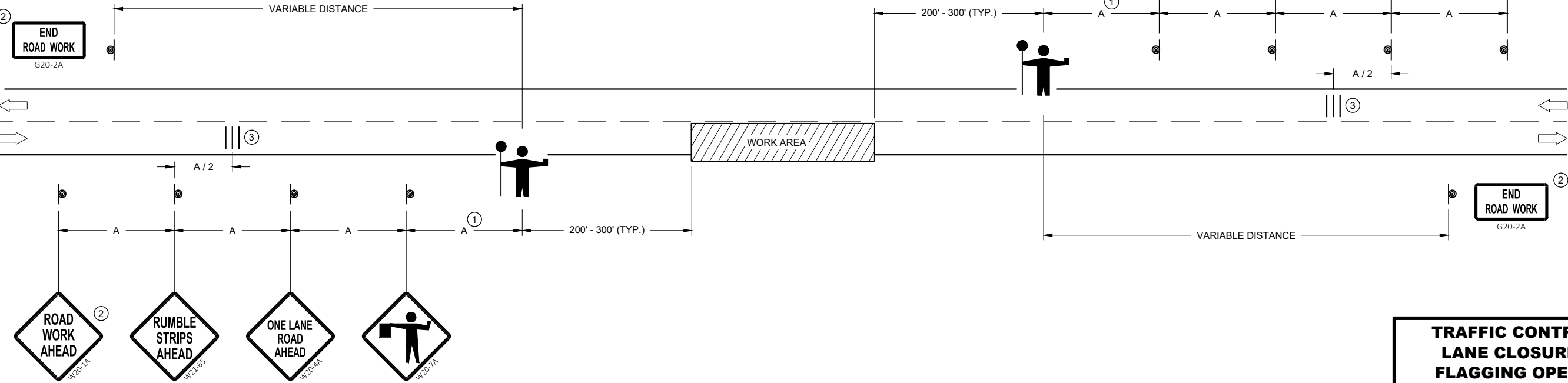
- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
 - SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA