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

Charter
3520 E. Destination Dr.
Appleton, WI 54915

2. Work Start Date 11/2/2020

3. Work Finish Date★ 6/3/2021

4. Is the work due to a WisDOT highway project?

☒ Yes ☐ No

5. Applicant Work Order (If any) 1806874

6. Location Description (¼ section, section, town, range; provide plat and/or location maps)

T22N - R15, 15 & 16E - Sec 4, 5, 8, 9 & 10

7. Work Location (List all that apply)

Town: Greenville
Village:
City:
County: Outagamie

8. Highway (List all that apply)

WIS: 15
US:
Interstate:

9. Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.)

☒ Comm:
☐ Electric:
☐ Gas/Oil:
☐ Water:
☐ Sewer:
☐ Casing:
☐ Conduit:
☐ :

☐ Transmission ☒ Service
☐ Distribution ☐ Service (ESCP)

10. Facility Orientation (Check all that apply)

☒ Underground ☒ Overhead
☒ Crossing ☒ Parallel
☐ OSOW high clearance route
☐ Structure attachment
☐ Scenic easement (Off right-of-way)

11. Work Types (Check all that apply)

☒ New facility ☐ Remove
☒ Joint install ☐ Maintenance
☐ Improve or repair existing ☒ Discontinue, left in place

12. Proposed Work Methods (Check all that apply)

☐ Trench ☐ Plow
☐ Place fill ☐ Rock blasting
☐ Place cable in conduit ☐ Open cut pavement
☐ Hand/mechanical excavation

Bore:
☐ Hydraulic (Auger/Jack/Tunnel)
☐ Pneumatic (Mole)
☒ Directional 1 (Manually tracked)
☐ Directional 2 (Computer tracked)
☐ Unknown (At this time)

Install or attach to poles/towers:
☒ New ☐ Existing ☒ Guys

(~Diameter) (Name of existing owner)
(Provide details for all guy-wires on plan sheets)

Pothole (Subsurface excavation):
☐ Air ☒ Water

Tree/vegetation control:
☐ Trim (Prune) ☐ Plant
☐ Remove (Cut) ☐ Mow
☐ Chemically treat

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

14. Is the facility near a survey monument? HMM 09-15-35 If yes, call (866) 568-2852 or email geodetic@dot.wi.gov.

☐ 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

★ 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 Vince Albin — **Telephone Number** (920) 831-9249

19. Utility or Project 24/7 Emergency Contact TWC 24 HR Dispatch — **Telephone Number** 800-644-8328

20. Provide company name and address of utility authorized representative if not employed by the applicant.

Darrell Gore
Mi-Tech Services
4125 N 124th St.
Brookfield, WI 53005

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.

Darrell Gore 9/15/2020
(Utility Authorized Representative Signature – If filled via computer, brush script font) (Date)

OSP Designer (Title) 262-649-5386 X2504 (Telephone Number) dgore@mi-tech.us (Email Address)

21. Provide additional work details, if needed (use back page or include separate pages)

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) #We Energies
☐ Private utility (Non-public ownership and/or use)
☐ Expedited Service Connection Permit
☐ This permit voids & supersedes #_____ issued:_____
☐

Application Received: 9/28/2020
Application Completed:
Permit Issued:
Permit Extended:
Permit Amended:

1146-75-72
(WisDOT Improvement Project ID Numbers, if applicable)

(WisDOT Authorized Representative Signature – If filled via computer, Brush Script font)

Permit Number: **2020362**

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

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.

3.3 Subsurface Utility Excavation (SUE)

WisDOT allows SUE as a necessary tool for accurate vertical location of utilities. Two methods are available: air (vacuum) and water (jetting). Within the pavement structure (lanes, shoulders, curb & gutter), use ***air*** SUE rather than water. Water may be allowed if the air method cannot penetrate frozen and/or densely compacted soil. Air or water SUE may be used in other R/W areas beyond the pavement structure. Table 1 below outlines the basic steps for SUE work.

Consult WisDOT prior to using water SUE. If WisDOT agrees to its use, check the SUE water jetting box on the permit application and show hole locations on a drawing. Submit ***before*** pavement condition pictures at each SUE hole with the permit application, and provide pictures of the fully restored holes ***after*** the job is completed. This provides WisDOT and the utility with documentation that the restoration was finished. Monitor the holes over the next few years, or until WisDOT is satisfied that no additional settling is occurring or until a new resurfacing or pavement replacement project is done. A utility must repair any SUE hole settlement (Figure 2).

Numerous pictures are not needed. But pictures should be taken from the same angle and distance for the before and after conditions, and be far enough away to provide some sort of perspective for the location (i.e., not right next to the hole). Take pictures with a digital camera so they can be sent electronically, or if taken with a conventional camera, scan and send to WisDOT in a .jpg or .pdf format. No pictures are required for air SUE.

Use round cores for SUE holes within the pavement structure. Round cores are preferred since they prevent stress cracks due to elimination of corners. The maximum size of a SUE hole is 12" in diameter in the wheel paths and a maximum of 16" in diameter outside the wheel paths. Beyond the pavement structure, the hole size may be larger (18”-24”) and square upon WisDOT approval.

Table 1: Basic SUE Steps

1) Pavement is saw cut full depth, with a bit ranging from 12” to 16” in diameter; resulting in a “core”.
2) The core is removed and saved for reuse (if structurally sound).
3) A protective steel ring is placed to protect the edge of the opening from damage.
4) Vacuum equipment is used to excavate compacted material from bottom of base course down to beneath utility facility.
5) Utility work is performed (e.g., leak repair, service connection).
6) Utility facility is protected with fine material.
7) Self-mixing flowable fill material is placed from top of fine material to bottom of base course (fill is designed to be traffic-bearing in 90 minutes).
8) Non-shrink grout is placed (grout is designed to be traffic-bearing in about 90 minutes).
9) The removed core (or a generic equivalent replacement core) is placed in the remaining opening (original alignment and orientation is maintained if removed core is used) forcing the grout to the surface to fill the annular space and core extraction hole.
10) The restored opening is sealed.

Figure 2: Improper SUE Restoration

3.4 Non-Metallic Lines

Any non metallic pipe, cable or other kind of utility line which lacks a continuous and integral metallic component capable of detection by locating instruments shall be accompanied in its location by a continuous detectable metallic tracer wire or metallic tape.

3.5 Casing

Where crossings by underground lines are encased in protective conduit or duct, the encasement shall extend at least two feet beyond the toe of slope or three feet beyond the ditch line. On curbed sections, it shall extend at least outside the outer curbs.

Wisconsin Department of Transportation
Northeast Region
944 Vanderperren Way
Green Bay, WI 54304

Tony Evers, Governor
Craig Thompson, Secretary
wisconsindot.gov

Telephone: (920) 492-5643
FAX: (920) 492-5640
Email: ner.dtsd@dot.wi.gov

August 21, 2020

VINCE ALBIN
TIME WARNER CABLE D/B/A CHARTER COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54915

TRANS 220 PROJECT
Work Plan Approval
Start Work Notice

Facility Type: Communications

RE: Design Project ID: 1146-75-00
Construction Project ID: 1146-75-72
STH 76-NEW LONDON
CTH JJ - LILY OF THE VALLEY DRIVE
STH 15, OUTAGAMIE COUNTY

This letter is to inform you that your proposed work plan for the above-referenced project meets the requirements of Trans 220.05 (7) and is approved. WisDOT's approval of your work plan does not mean that your company has identified and addressed all potential conflicts.

Enclosed you will find:

- Approved Utility Work Sheet (including work sketches if applicable)
- Special Provision for your utility

Please review the enclosed special provision to ensure it is compatible with the approved work plan. If any changes are required contact me immediately.

You are hereby authorized to proceed with the relocation after all necessary permits to occupy highway right of way have been approved.

You may need to obtain approvals, permits, or easements from other parties prior to relocating any utility facilities within or outside the project corridor. You will need to coordinate directly with the affected agencies and/or parties.

The bid letting for this project is currently scheduled for November 9, 2021, with construction anticipated to begin in March 2022. The project does have an advanceable bid letting of May 11, 2021 with an advanceable start date of August/September 2021.

Thank you for your cooperation and assistance with our project development efforts. If you have any questions about this project, please contact me.

Jeff Orr
Utility Coordinator
Northeast Region
(920) 492-3511
Jeffry.Orr@dot.wi.gov

Enclosures: As stated
cc:

JOB INFORMATION ---- STATE ID:1146-75-72 - LILY OF THE VALLEY DRIVE - CTH JJ - STH 15 - OUTAGAMIE COUNTY.

INDEX

COVER
EROSION
FRAC-OUT PLAN
TRAFFIC:
PEDS USED
~~TWC - SYSTEM PRINTS - Existing (1 - 4)~~
U/G CROSS SECTION

DESIGN

LOCATION - (PAGES)

GREENVILLE DRIVE (STH 15) - (1 THRU 19)
NORTH ROAD - (3, 3A, 3B, 3C, 3D & 3E)
JULIUS DRIVE - (14, 14A & 14B)
LILLY OF THE VALLEY DR - (20 & 21)

CONSTRUCTION NOTES:
BURY CABLE AT A MINIMUM OF 36" DEPTH UNLESS OTHERWISE NOTED ON PRINTS.

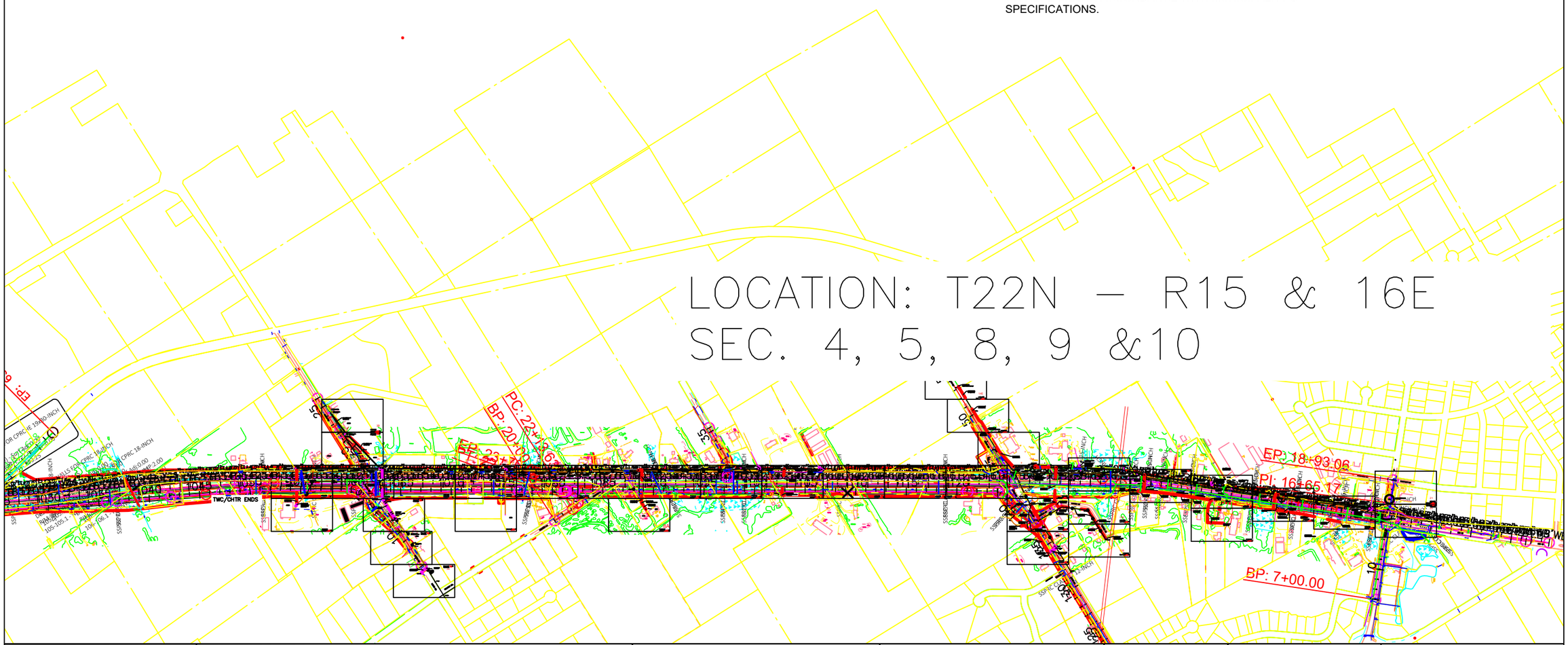
THE UTILITIES SHOWN ON THIS PLAN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES AND FROM FIELD VERIFICATION.

NOTES:

1. A OUTAGAMIE COUNTY PERMIT IS REQUIRED
   A STATE DOT PERMIT IS REQUIRED

2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITIES AS STATED IN THE TERMS & CONDITIONS OF THE PERMIT.
(DAY LIGHTING OF WATER, SEWER AND STORM...)

3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY'S SPECIFICATIONS.



mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS	LOCATION
STH 15	OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore	DATE:
DRAFTED BY: Darrell Gore	DATE:
DESIGNED BY:	DATE:
ASBUILTS BY:	DATE:

Cover

6/15/2020 12:40:44 PM

GENERAL WETLAND / EROSION CONTROL NOTES

- NO WORK WILL BE PERFORMED WITHIN THE BANKS OR BELOW THE ORDINARY HIGH WATERMARK OF THE UNNAMED WATERWAY OR TRIBUTARIES.
- AS MUCH AS PRACTICABLE, THE MAJORITY OF WORK WILL BE STAGED FROM THE PUBLIC ROADWAYS AND ROAD SHOULDERS, KEEPING EQUIPMENT OUT OF ADJACENT WETLANDS
- ALL WORK WILL BE CONDUCTED TO MINIMIZE SOIL DISTURBANCE. NO RUTTING WILL BE ALLOWED WITHIN THE WETLANDS
- IF SOILS ARE NOT FROZEN OR STABLE TO A POINT THAT AVOIDS RUTTING, TIMBER MATS, MUD TRACKS, OR EQUIVALENT WILL BE UTILIZED TO ACCESS POLE LOCATIONS
- EXCAVATED SPOILS WILL NOT BE STOCKPILED IN WETLANDS
- ALL EXCESS SPOILS WILL BE REMOVED FROM WETLANDS AND PLACED IN A SUITABLE UPLAND LOCATION.
- TRENCHING AND PIT EXCAVATIONS WITHIN WETLANDS WILL INCLUDED SOIL SEGREGATION TO FACILITATE RESTORATION OF RE-CONSTRUCTION SOIL STRATIFICATION, AND RESTORATION TO PRE-CONSTRUCTION ELEVATIONS.
- POLES SCHEDULED TO BE REMOVED, AND THAT OCCUR WITHIN WETLAND, WILL BE CUT AND GROUND SURFACE, DEWATERING OF PITS OR TRENCHES MUST BE ONE IN ACCORDANCE WITH STATE STANDARDS. USE AN APPROVED SEDIMENT BAG, A COMBINATION OF A SEDIMENT BAG AND STRAW BALE DEWATERING STRUCTURE, OR EQUIVALENT.
- ANY DISTURBED WETLAND SOIL WITHIN 75 FEET OF THE ORDINARY HIGH WATER MARK OF THE UNNAMED WATERWAY WILL BE STABILIZED WITHIN 24 HOURS OF CONSTRUCTION COMPLETION.
- IF SOIL DISTURBANCE OCCURS ON SLOPES LEADING TO WETLANDS, OR WITHIN WETLAND, THE DISTURBED AREAS WILL BE STABILIZED AND APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED. EROSION CONTROL MEASURES WILL MEET OR EXCEED THE APPROVED WDNR STORM WATER MANAGEMENT TECHNICAL STANDARDS AS OUTLINED IN : HTTP://DNR.WI.GOV/RUNOFF/STORMWATER/TECHSTDS.HTM.
- ALL OF THE PERMIT CONDITIONS WILL BE MET DURING CONSTRUCTION OF THE PROJECT.

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS
STH 15

LOCATION
OUTAGAMIE COUNTY, WI

FIELDED BY: Darrell Gore DATE:
DRAFTED BY: Darrell Gore DATE:
DESIGNED BY: DATE:
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Contractor Contingency Plan For Inadvertent Release of Non-Hazardous Drilling Fluid *HD Crossings*

Contractor will be utilizing an environmentally safe drilling fluid in combination with established and proven drilling techniques to minimize the potential for any adverse impact to occur to the pipe installation and surrounding area as a result of the directional drilling. The only potentially negative impact that directional drilling could have on the environment would be the inadvertent loss of drilling fluid from the bore-hole and its subsequent migration into sensitive areas. However, the use of drilling fluid is required for successful completion of the drilled crossing and there is no alternative that can be used in its place. Contractor will implement the best available measures (BACT) within the limitations of available construction technology to reduce the potential for inadvertent fluid loss to the surrounding area and ensure that if drilling fluid is inadvertently lost to the surface that any adverse environmental impact is minimized. In addition, Contractor will follow an established procedure to be used by the driller in the event drilling fluid is being noticeably lost from the bore-hole in an attempt to re-establish circulation. Contractor' field personnel undergo continuous FERC environmental training creating an environmental awareness for potential problems.

The drilling fluid is primarily used to clean drill cuttings from the bore-hole as the down-hole cutters are advanced through the ground. The fluid also serves to cool the down-hole tools, stabilize the bore-hole, and reduce friction between the ground formation and the down-hole tools and also the product line during installation. The drilling fluid typically consists of a fresh water base with an inert additive (typically bentonite clay) mixed in to provide fluid properties desirable for use in directional drilling operations. The fluid is pumped from the rig down through the drill stem and into the bore-hole as the drilling progresses at a rate of approximately 60 to 150 gallons per minute for the pilot hole, reaming, and product line installation operations. **(Attachment MSDS/Information Sheet for: 1.) Max Gel, 2.) Super Gel -"X" and 3.) Quik Gel)** Typical brands used by Contractor.

Depending on the porosity and permeability of the ground formation, a small percentage (typically less than 5%), of the drill fluid will be naturally absorbed by the formation. Drilling fluid lost from the bore-hole in this manner rarely migrates to the surface inadvertently and is not likely to come in contact with the ground surface or estuaries. The fluid not absorbed by the ground will fill the annulus from the bottom of the bore-hole up and will circulate back to the surface via the annulus between the drill stem and the bore-hole wall. As long as the bore-hole remains open, and a path of lesser hydraulic relief pressure is not encountered (i.e. formation fracture), circulation back to the surface will continue for the duration of the drilling and installation operation. Contractor will utilize a drill head specially designed to bore a significantly larger diameter hole than the outer diameter of the drill stem to provide adequate space for the fluid to flow up the bore-hole annulus.

The absence of an open bore-hole conduit or the presence of a major formation fracture will typically lead to partial or possibly full loss of drilling fluid circulation. While it is impossible to determine the precise nature of this type of fluid loss, it is possible to accurately monitor for it by watching for a significant difference between the rate the fluid is being pumped down-hole and the rate it returns to the surface. The drilling fluid pumping rate and the rate of drilling fluid return to the surface is constantly monitored by the driller while the drilling is progressing.

The driller will know immediately if an unusually high volume of drilling fluid is being lost down-hole, depending on the ground conditions encountered in the crossing and taking into account the volume used to fill the bore-hole. Should the driller believe that circulation is being completely lost he will implement the following procedures:

1) Temporarily cease drilling operations, including pump shut down;
2) Dispatch observer as required to monitor the area in the vicinity of the crossing, including wetland areas, for inadvertent returns of drilling fluid at the surface;
3) Re-start the pump and stroke the bore-hole up and down in stroke lengths up to 30 feet.

During this procedure the bore-hole will be stroked as many as 4 times but no fewer than 2 in an effort to size the bore-hole annulus and re-open the circulation pathway. In addition, the thixotropic properties of the drilling fluid may be altered (i.e. thickened) at the same time (within the guidelines set forth by the manufacturer), to aid in re-establishing circulation as required, depending on bore-hole conditions. The observers will continuously monitor for inadvertent fluid returns as long as the pump remains on. Occasionally, based on the driller's discretion, it may be useful to increase the stroke length up to 90 feet or past the point at which he believes circulation was lost.

If circulation is re-established drilling will proceed as usual and monitoring for inadvertent fluid returns will no longer be required. If circulation is not re-established, monitoring for inadvertent fluid returns to the ground surface and river will continue and drilling will proceed.

Typically lost circulation has the highest probability of occurring while the pilot hole is being drilled due to the smaller bore-hole annulus and the relatively large volume of solids being displaced and carried in the drilling fluid. Often times in the course of drilling the pilot hole circulation will be temporarily lost as the pilot bit is advanced through more permeable or less competent sections of the ground formation and fluid pressures are at a maximum. As the pilot bit advances beyond these sections of the bore-hole, the fluid pressure will fall and circulation within the bore-hole is naturally re-established. In these instances, much of the fluid lost to the formation under the greater pressures will return back to the bore-hole as the pressures fall, in which case the drilling fluid is not likely to migrate to the surface or the river. It is also possible for the drilling fluid to leave the bore-hole and migrate in a direction other than the ground surface or a wetland, in which case it may never be observed even if circulation is lost for long periods of time.

If drilling fluid returns are observed to be continuously surfacing on the ground at a location that is accessible, the following procedures will be followed:

1) Cease drilling operations;
2) Contain the location such that the drilling fluid cannot migrate across the ground surface by constructing earthen berms and/or if required, utilizing containment materials and equipment (i.e. hay bales, silt fence, etc.).
3) Excavate a small sump pit at the location and provide a means for the fluid to be returned to either the drilling operations or a disposal site (i.e. pump through hose or into tanker);
4) Continue drilling operations and continue maintaining the integrity of the containment measures and monitoring the fluid returns as required ensuring that no surface migration occurs.

Special additional requirements for a release to waterway or wetland

1) If HDD results in a release of drilling fluid to a waterway or wetland, immediately contact the DRN Spills Hotline (800.943.0003) and the DNR Office of Energy (608.266.3524).
2) Release of drilling fluid in a wetland shall be isolated with straw bales and silt fence (no earthen berms), followed by spill cleanup.
3) In order to minimize downstream impacts, release of drilling fluid in a flowing waterway requires isolation of spill from waterway (i.e. sandbags, plywood coffer, etc.) and immediate cleanup.

Special additional requirements for a release on pavement or roadway

1) If HDD results in a release of drilling fluid on pavement or roadway, immediately contact the DRN Spills Hotline (800.943.0003) and the DNR Office of Energy (608.266.3524) also contact local law enforcement (911).
2) Implement an Emergency Traffic Control Plan that is appropriate for the spill area.
3) Release of drilling fluid on pavement or roadway shall be isolated with straw bales, sand bags or earthen berms, followed by immediate spill cleanup.
4) In order to minimize the impact to traffic the appropriate equipment needed to clean up a spill will be on site or readily available.

If inadvertent drilling fluid returns are observed to be surfacing on the ground surface at a location that is inaccessible, the following procedures will be followed:

1) Ensure that all reasonable measures within the limitations of the technology have been taken to re-establish circulation;
2) Continue drilling with the minimum amount of drilling fluid as required to penetrate the formation and successfully install the product line.

It should be noted that often times the drill cuttings generated as a result of the drilling process will naturally bridge and subsequently seal fractures or voids in the formation as drilling progresses thus providing another means of re-establishing circulation. This is especially likely during the reaming process as higher volumes of larger cuttings are typically generated. Therefore it is usually beneficial to proceed with the pilot hole even if circulation has not been re-established since it will likely be re-established at some point during the reaming process.

The use of an environmentally safe drilling fluid ensures that even in the event of fluid loss to sensitive areas that there will be no adverse environmental impact other than a temporary minor increase in turbidity until the drilling fluid dissipates. It is important to note that any temporary increase in the turbidity as a result of inadvertent drilling fluid loss while directional drilling the crossing will be several orders of magnitude less than that of an open-cut crossing.

If inadvertent drilling fluid should migrate to the earth's surface, the Contractor' Field Representative will contact the Owner Representative for this project who will in turn contact the appropriate governing authorities.

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UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
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EXISTING HAND HOLE
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SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS
STH 15

LOCATION
OUTAGAMIE COUNTY, WI

FIELDED BY: Darrell Gore DATE:
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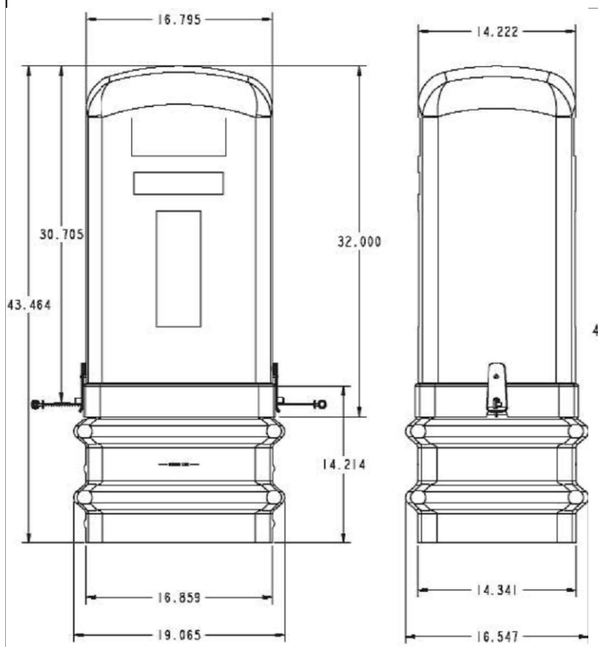
TYPES OF PEDESTALS USED DURING CONSTRUCTION

CHARLES PED 4500 (SM)



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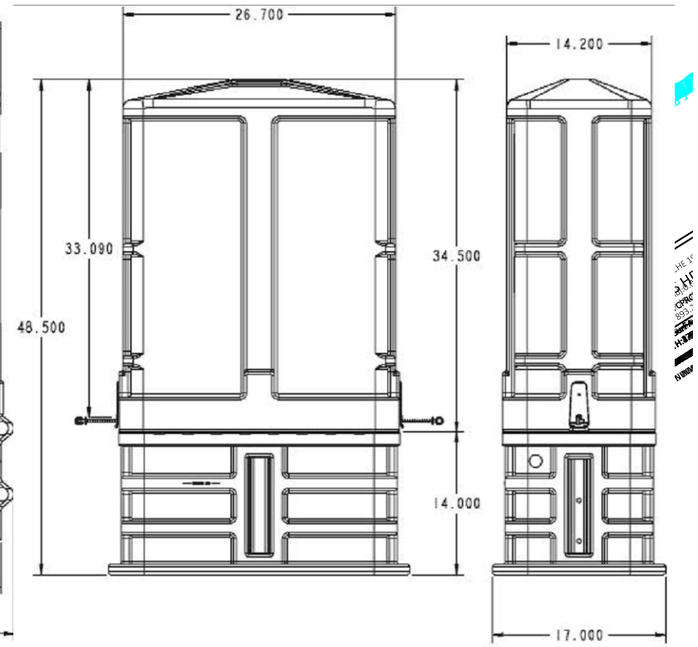

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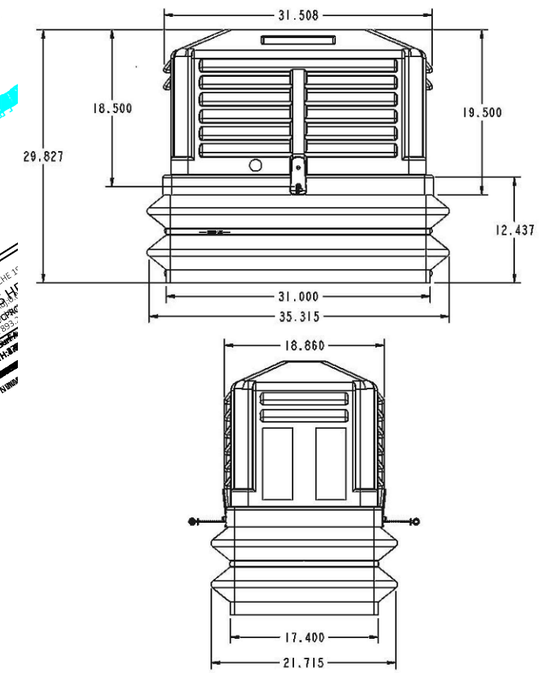

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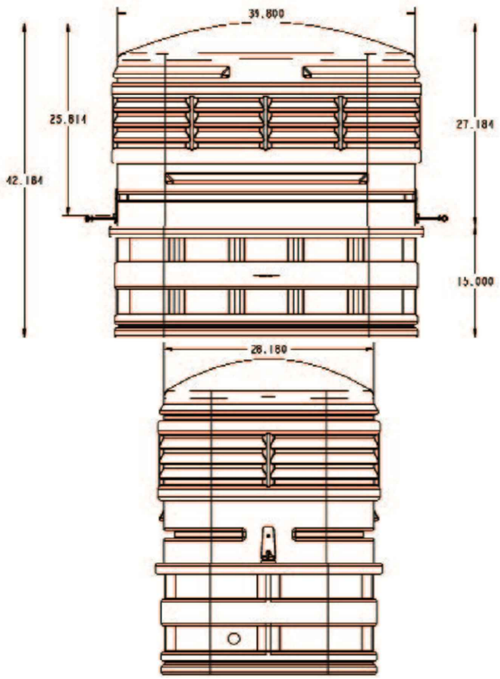

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- DOWNGUY
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- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

- STRAND PROPOSED
- STRAND EXISTING
- PROPOSED UNDERGROUND
- JOINT U/G WITH POWER
- CABLE TV
- FIBER
- TELEPHONE
- CITY CONDUIT
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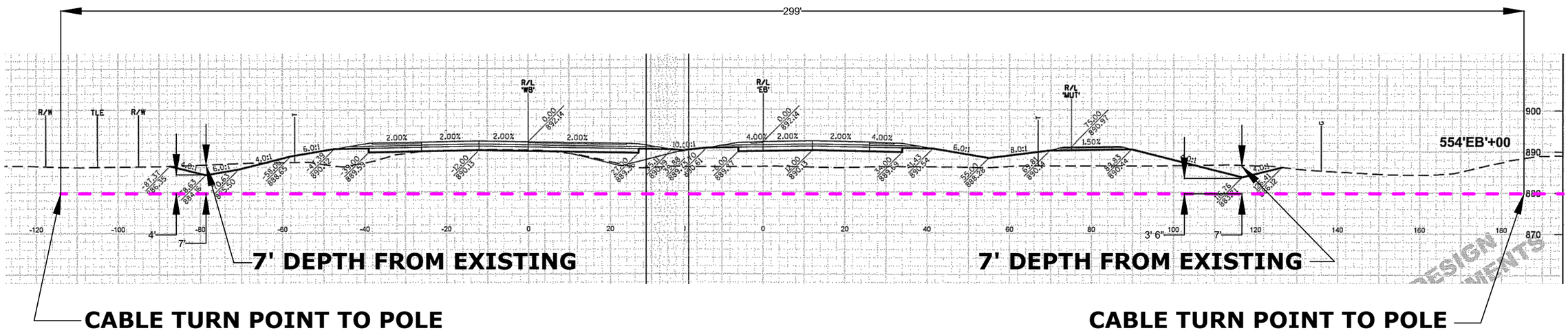

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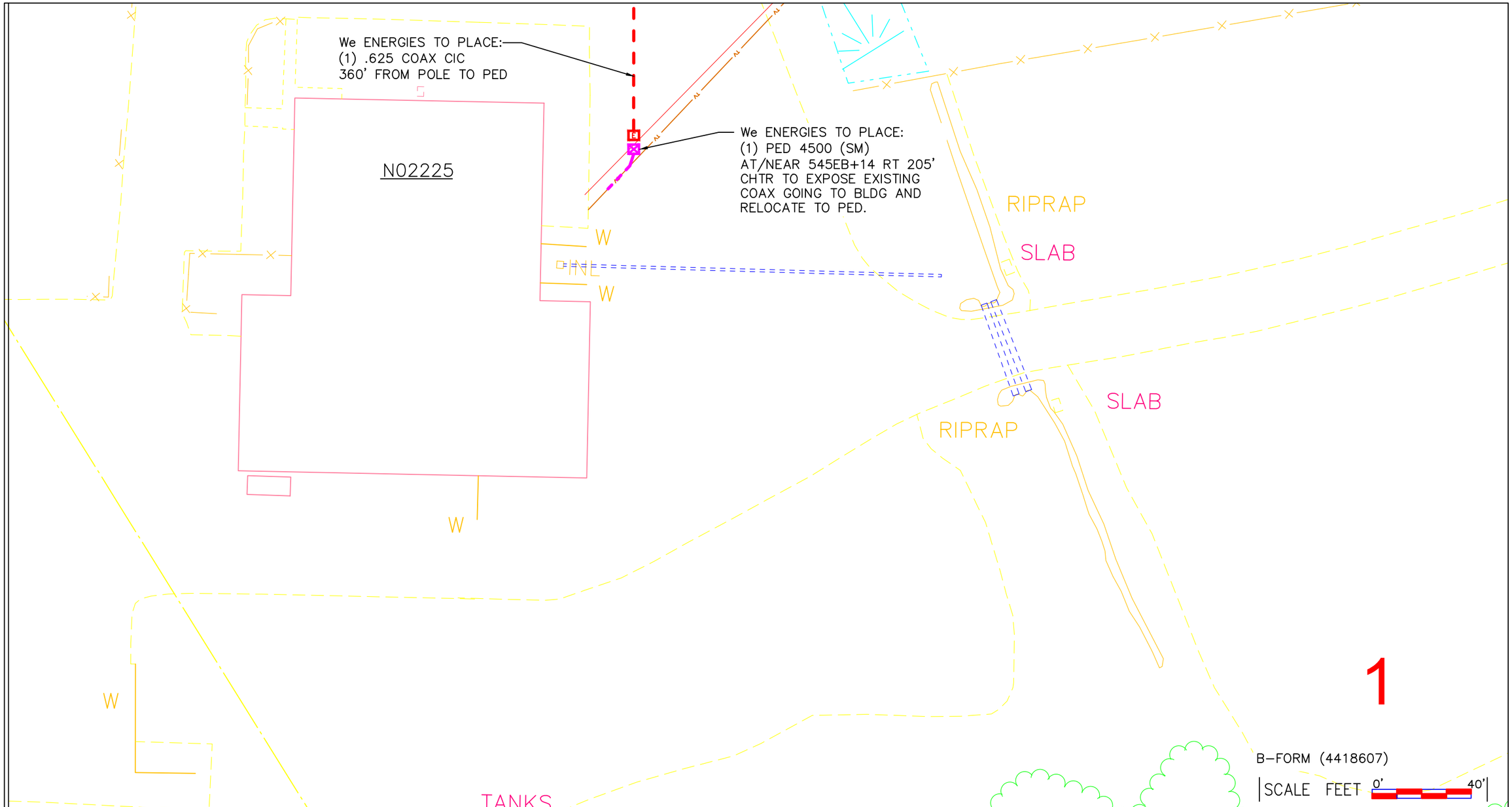

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STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
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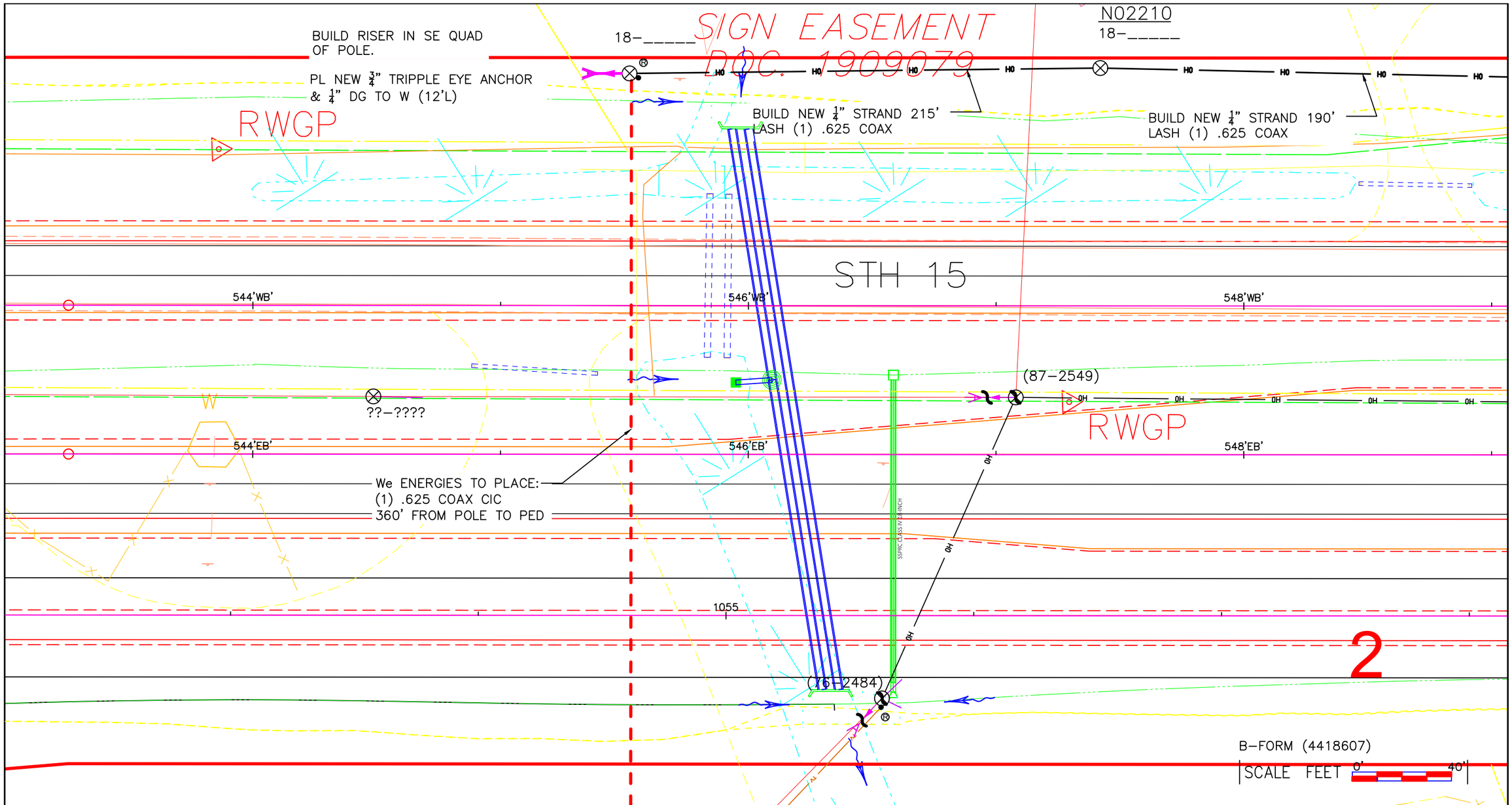

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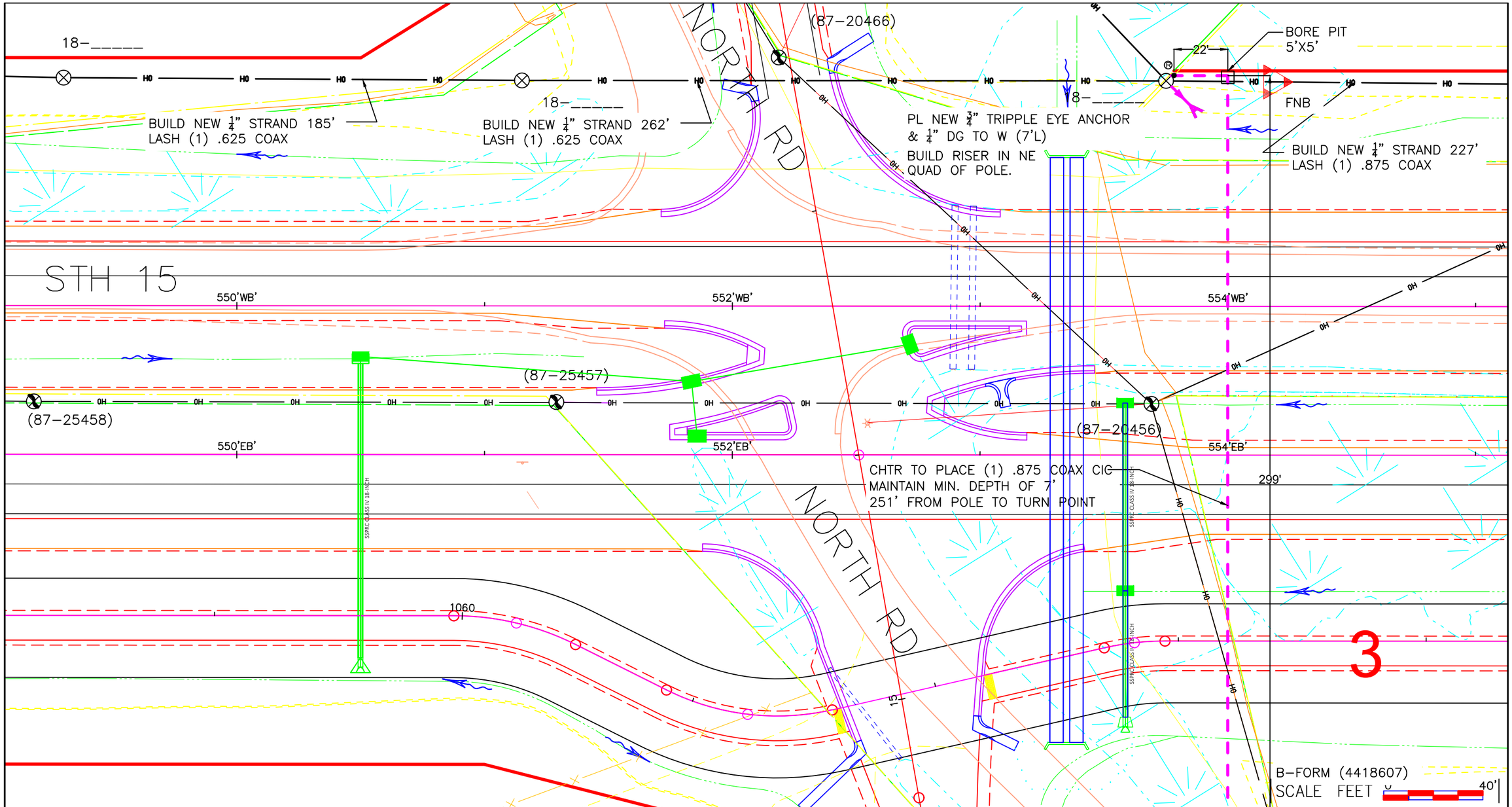

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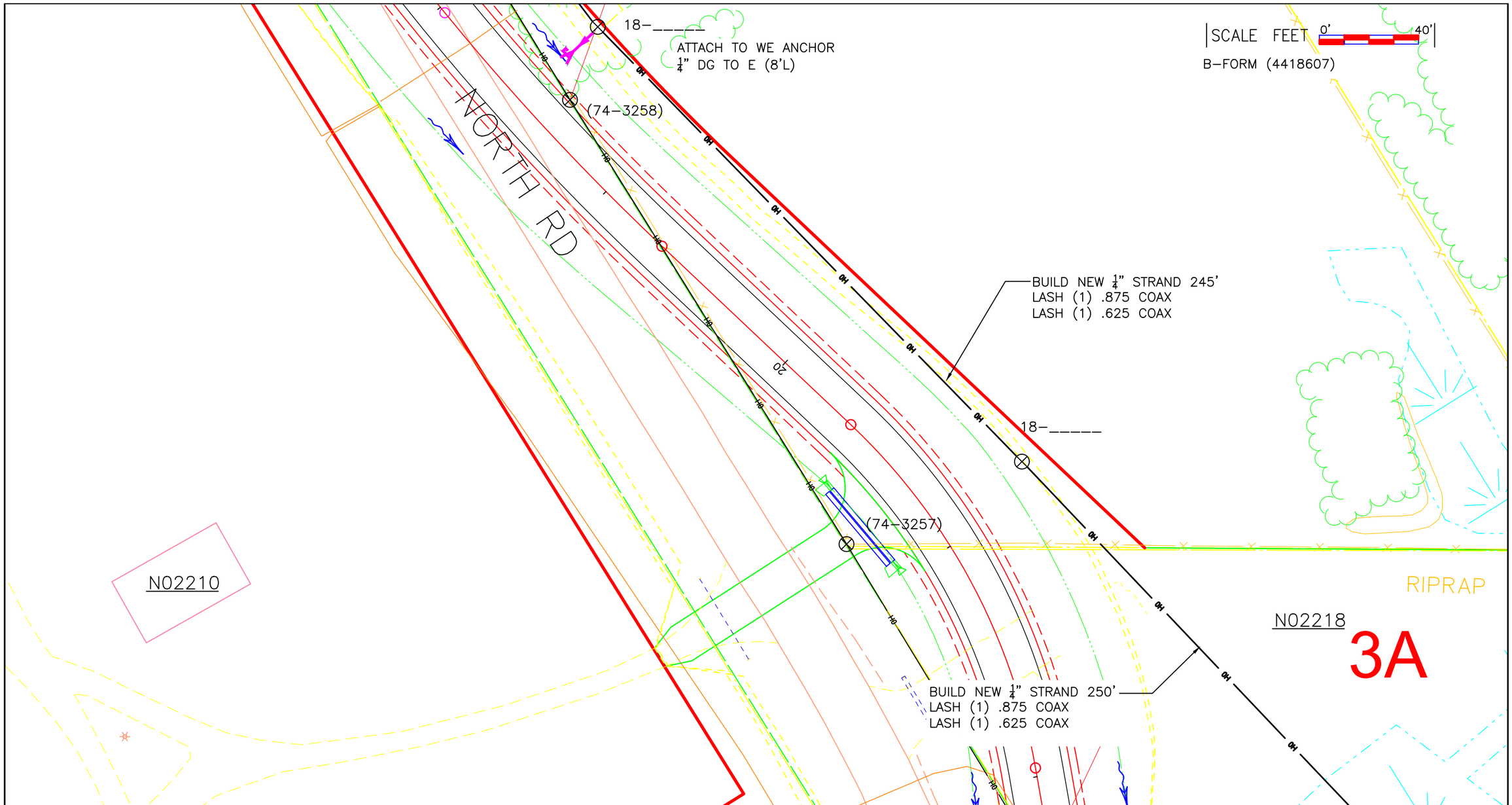

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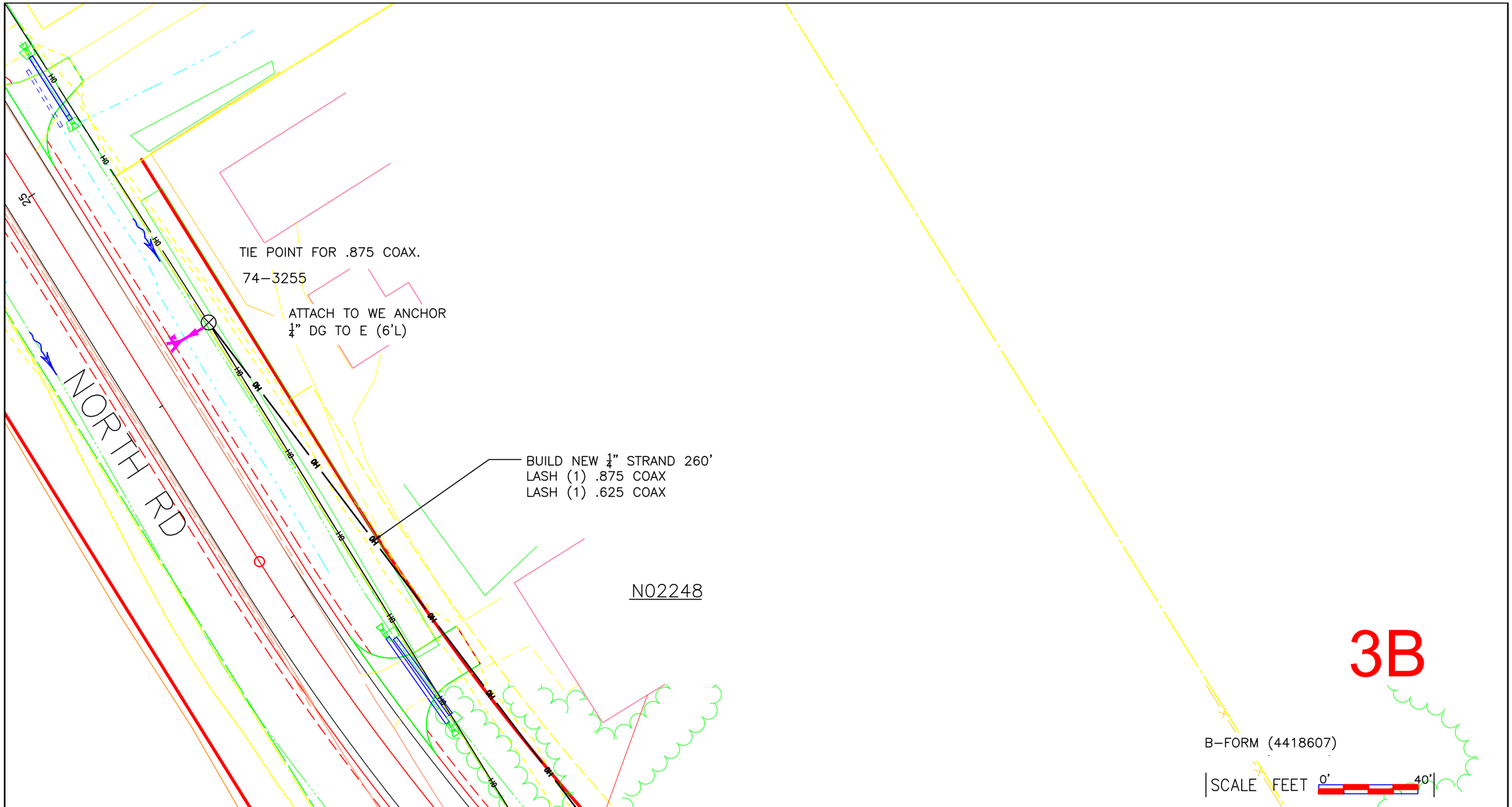

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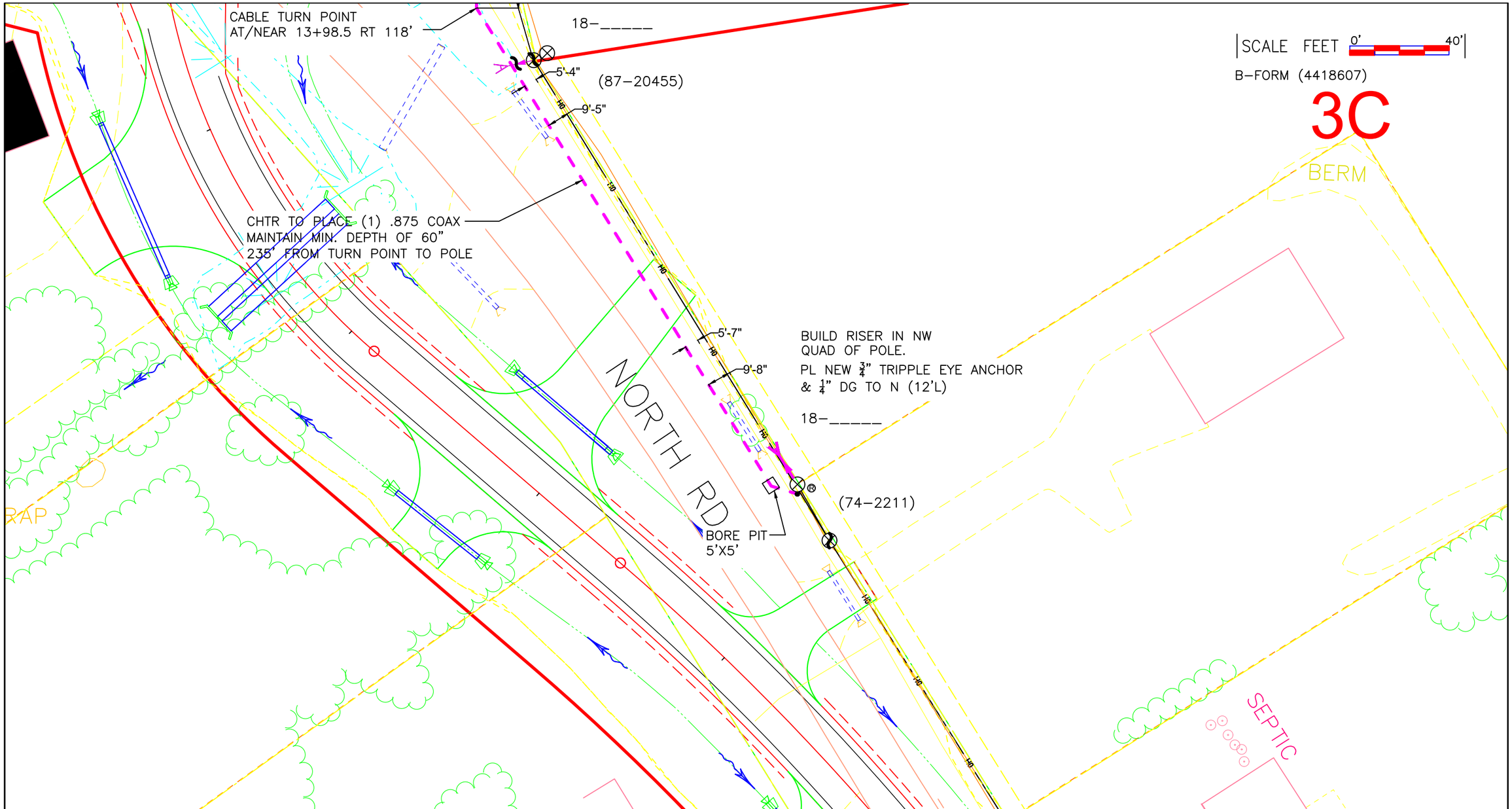

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LINETYPES

STRAND PROPOSED	OH	OH
STRAND EXISTING	OH	OH
PROPOSED UNDERGROUND		
JOINT U/G WITH POWER		
CABLE TV	TV	TV
FIBER	FO	FO
TELEPHONE	T	T
CITY CONDUIT	CUC	CUC
GAS	G	G
ELECTRICAL	E	E
MMSD	MMSD	MMSD
STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
STEAM	STM	STM
ROW	ROW	ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS: STH 15	LOCATION: OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore DATE:	3
DRAFTED BY: Darrell Gore DATE:	3-C
DESIGNED BY: DATE:	
ASBUILTS BY: DATE:	

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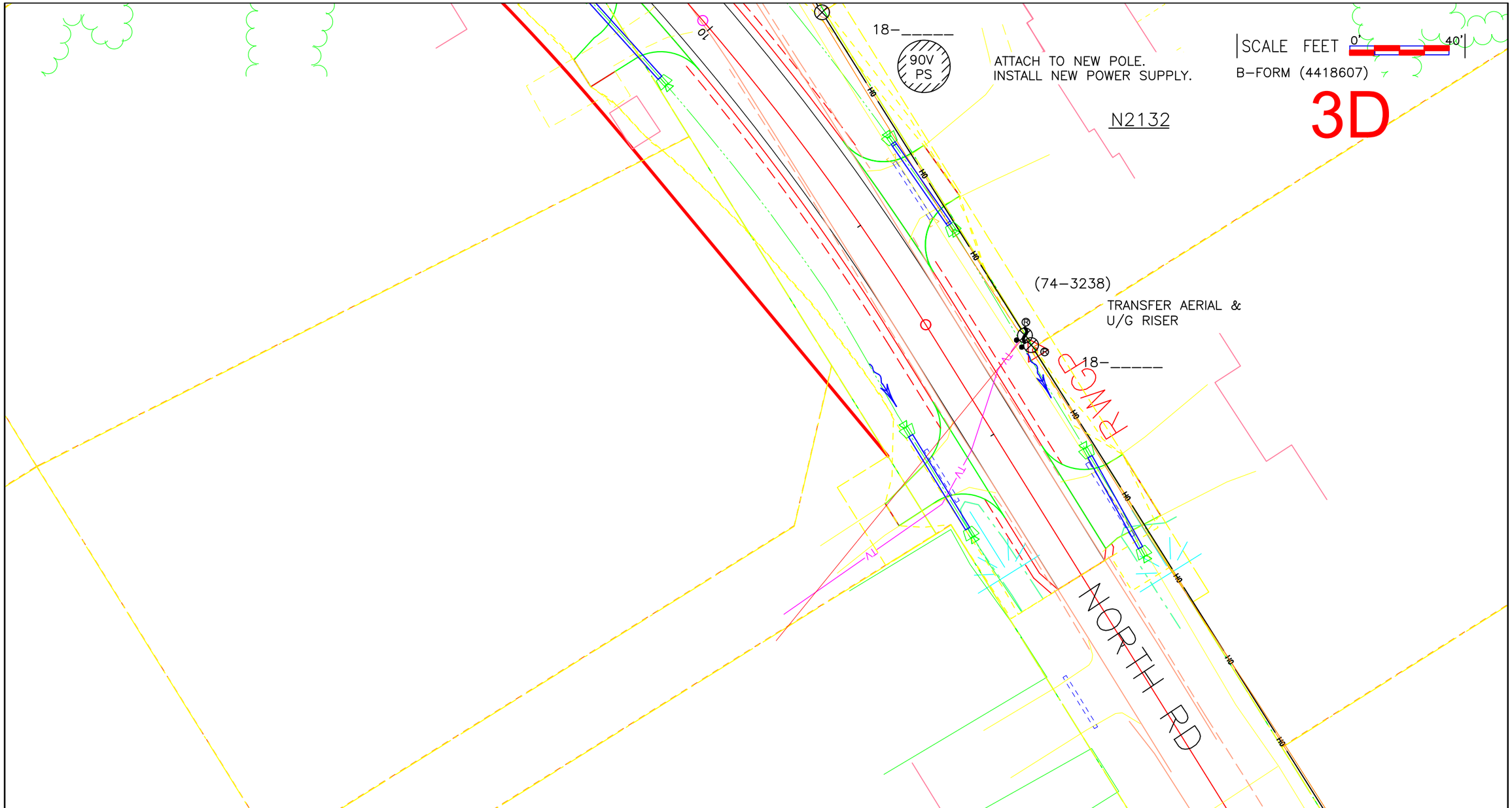

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED	OH	OH
STRAND EXISTING	OH	OH
PROPOSED UNDERGROUND		
JOINT U/G WITH POWER		
CABLE TV	TV	TV
FIBER	FO	FO
TELEPHONE	T	T
CITY CONDUIT	CUC	CUC
GAS	G	G
ELECTRICAL	E	E
MMSD	MMSD	MMSD
STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
STEAM	STM	STM
ROW	ROW	ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS
STH 15

LOCATION
OUTAGAMIE COUNTY, WI

FIELDED BY: Darrell Gore	DATE:
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ASBUILTS BY:	DATE:

3-C
3-D
3-E

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SCALE FEET 0' 40'

B–FORM (4418607)

3E

CHTR TO PLACE (1) .625 COAX CIC
MAINTAIN MIN. DEPTH OF 36"
86' FROM POLE TO PED

EXISTING PED

18–_____

BUILD RISER IN SW
QUAD OF POLE.

(84–22869)

90V
PS

77–2224

NORTH RD

HILLVIEW RD.

09–05054

OH

TV

mi-TECH

LEGEND

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LINETYPES

STRAND PROPOSED	OH
STRAND EXISTING	OH
PROPOSED UNDERGROUND	
JOINT U/G WITH POWER	
CABLE TV	TV
FIBER	FO
TELEPHONE	T
CITY CONDUIT	CUC
GAS	G
ELECTRICAL	E
MMSD	MMSD
STORM	STO
SANITARY	SAN
WATER	W
STEAM	STM
ROW	ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

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3-E

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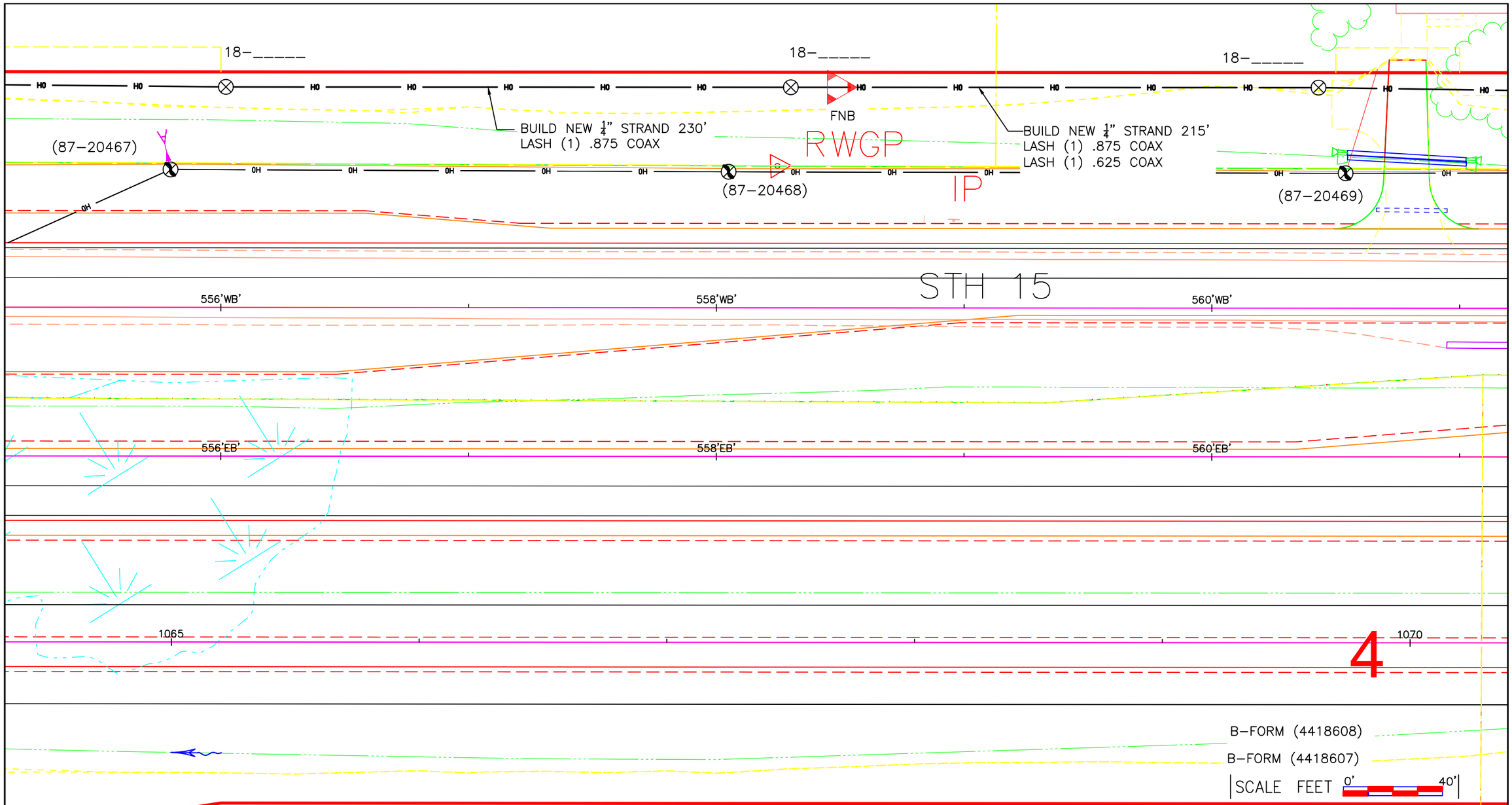

mi-TECH

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- STRAND EXISTING
- PROPOSED UNDERGROUND
- JOINT U/G WITH POWER
- CABLE TV
- FIBER
- TELEPHONE
- CITY CONDUIT
- GAS
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PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

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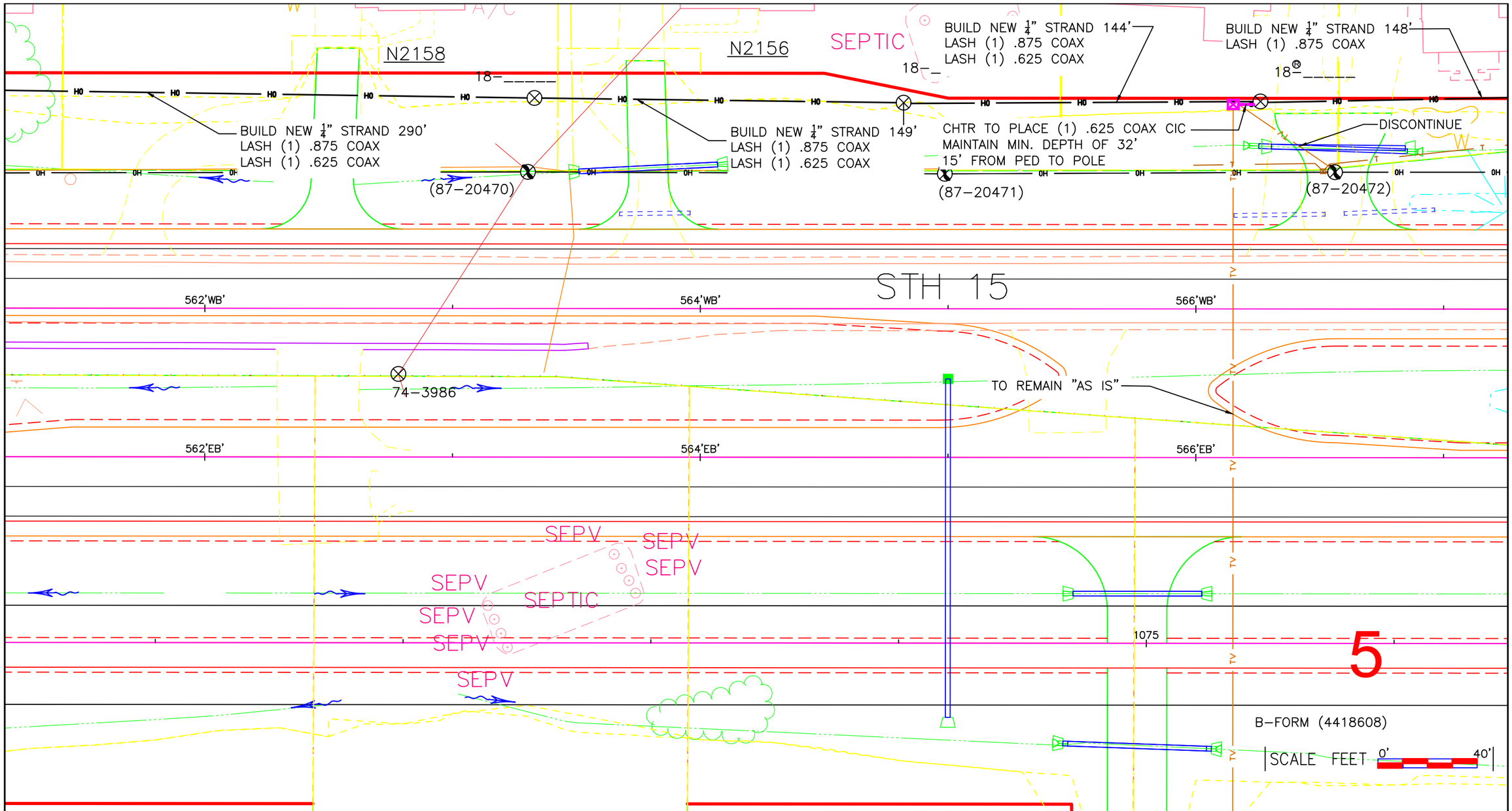

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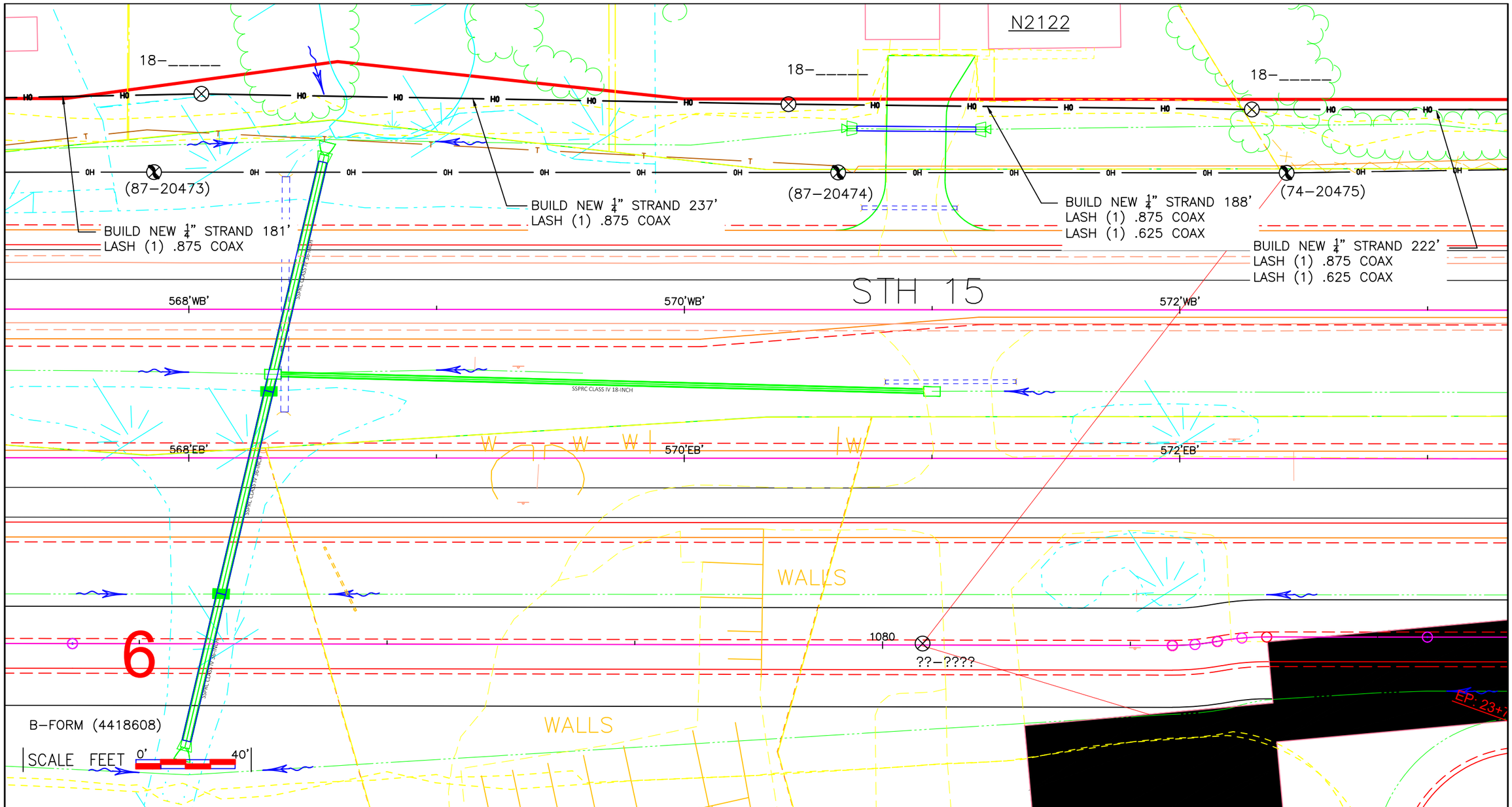

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FIBER	FO	FO
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MMSD	MMSD	MMSD
STORM	STO	STO
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WATER	W	W
STEAM	STM	STM
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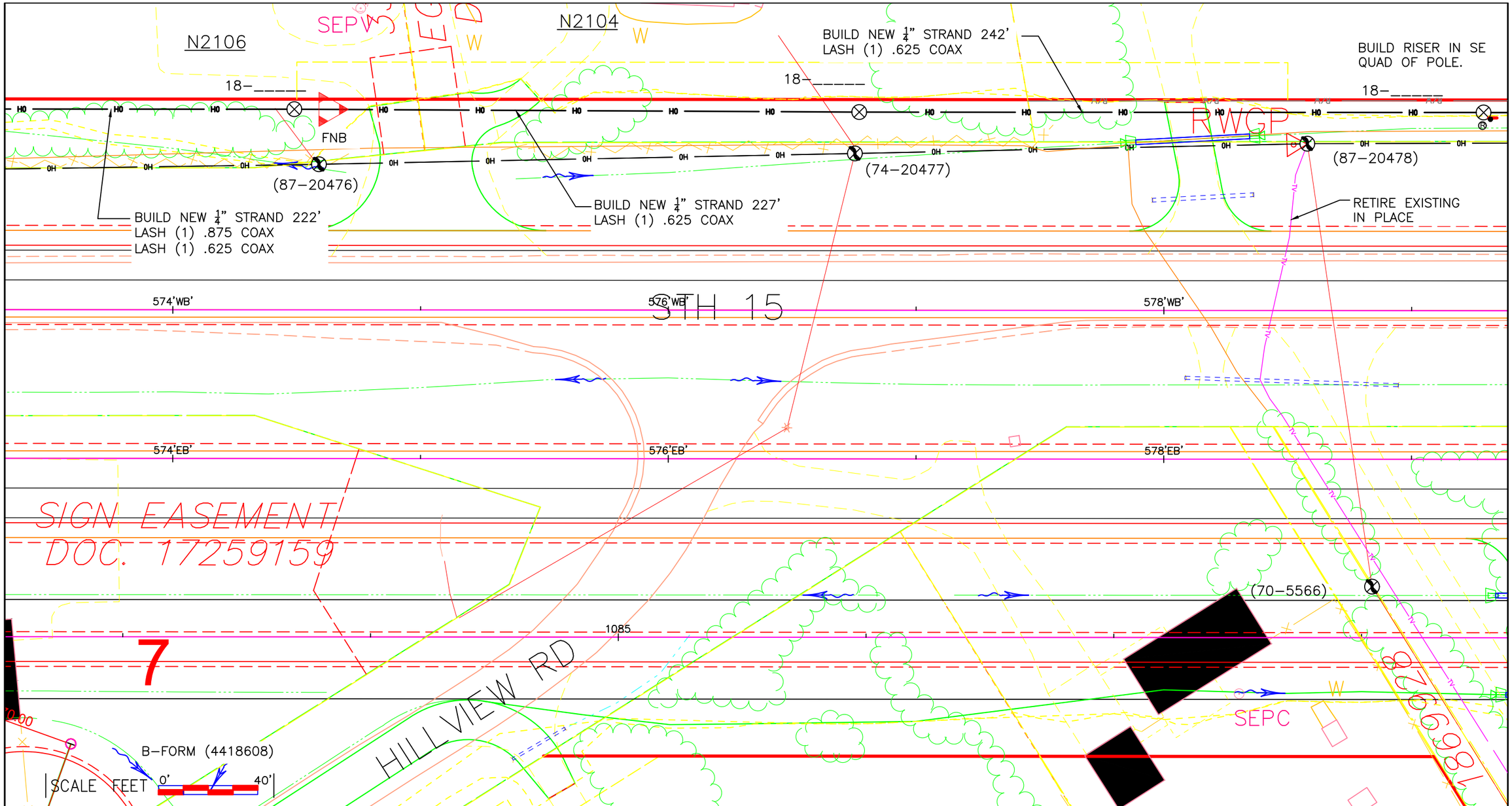

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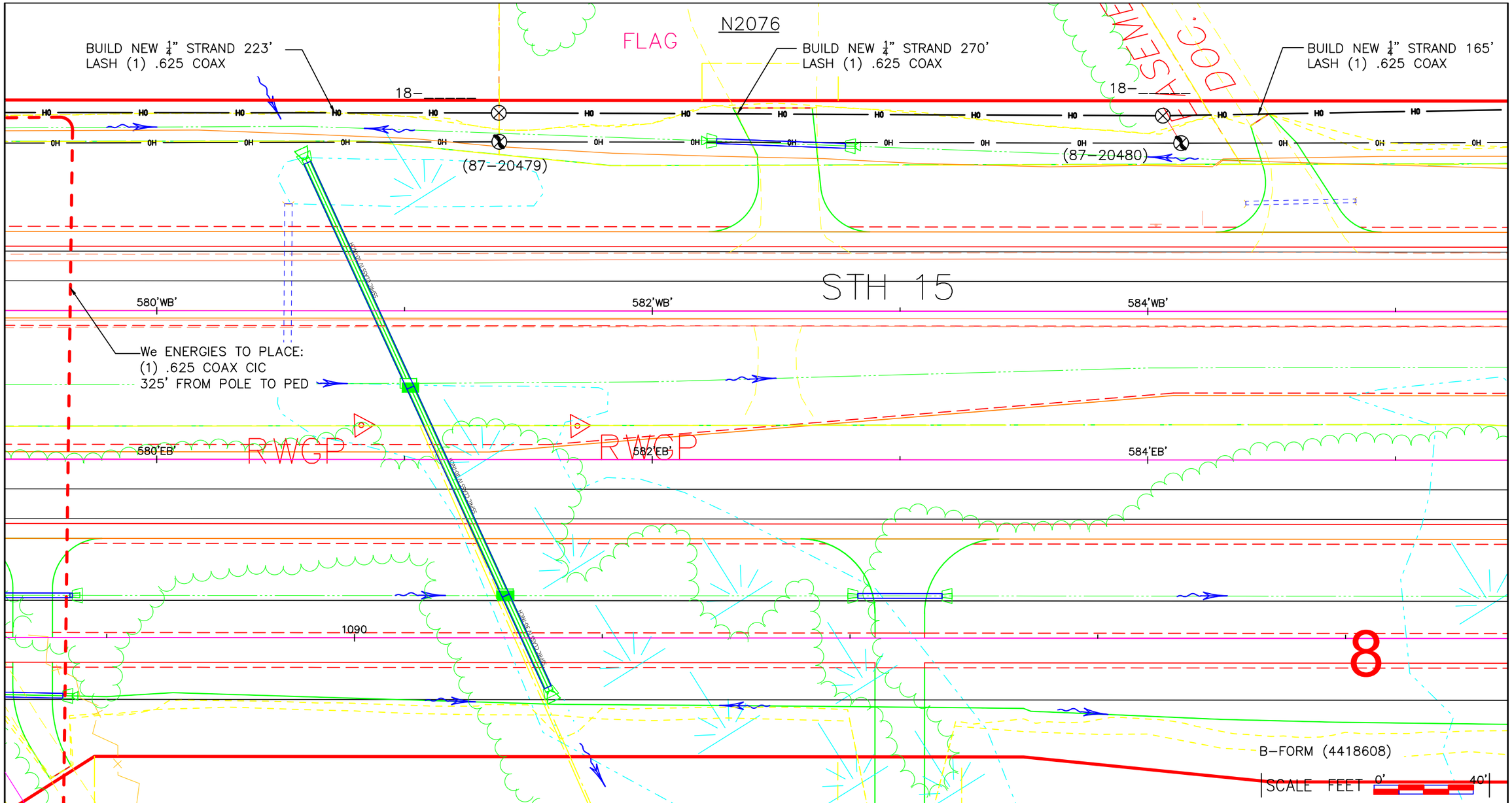

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TELEPHONE	T
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MMSD	MMSD
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SANITARY	SAN
WATER	W
STEAM	STM
ROW	ROW

PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

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FIELDED BY: Darrell Gore	DATE:
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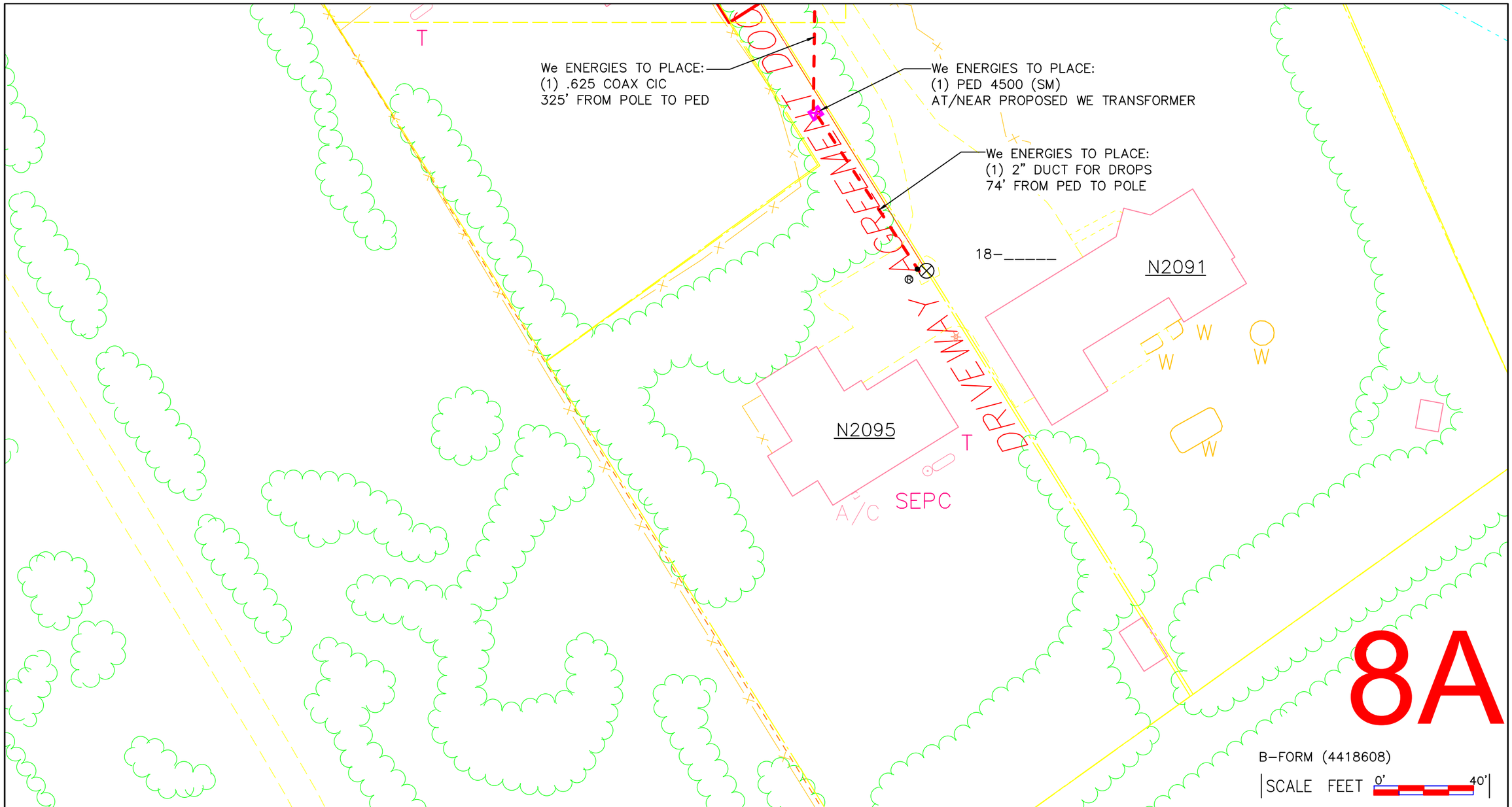

mi-TECH

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PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

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BUILD NEW ¼" STRAND 118'
LASH (1) .625 COAX

BUILD NEW ¼" STRAND 260'
LASH (1) .625 COAX

PL NEW ¾" TRIPPLE EYE ANCHOR
& ¼" DG TO N (7'L)

N2036B

EXPOSE EXISTING COAX TO NORTH
PLACE (1) PED 4500 (SM)
AT/NEAR: 591WB+27 LT 101'

18–

(87–20481)

(87–20482)

(87–20483)

BUILD NEW ¼" STRAND 180'
LASH (1) .625 COAX

BUILD RISER IN
NE QUAD OF POLE

(NT)

STH 15

STH 15

586'WB'

588'WB'

590'WB'

586'EB'

588'EB'

590'EB'

SSPRC CLASS IV 38-INCH

1095

1100

9

B–FORM (4418608)

SCALE FEET 0' 40'

LEGEND

- JOINT POLE
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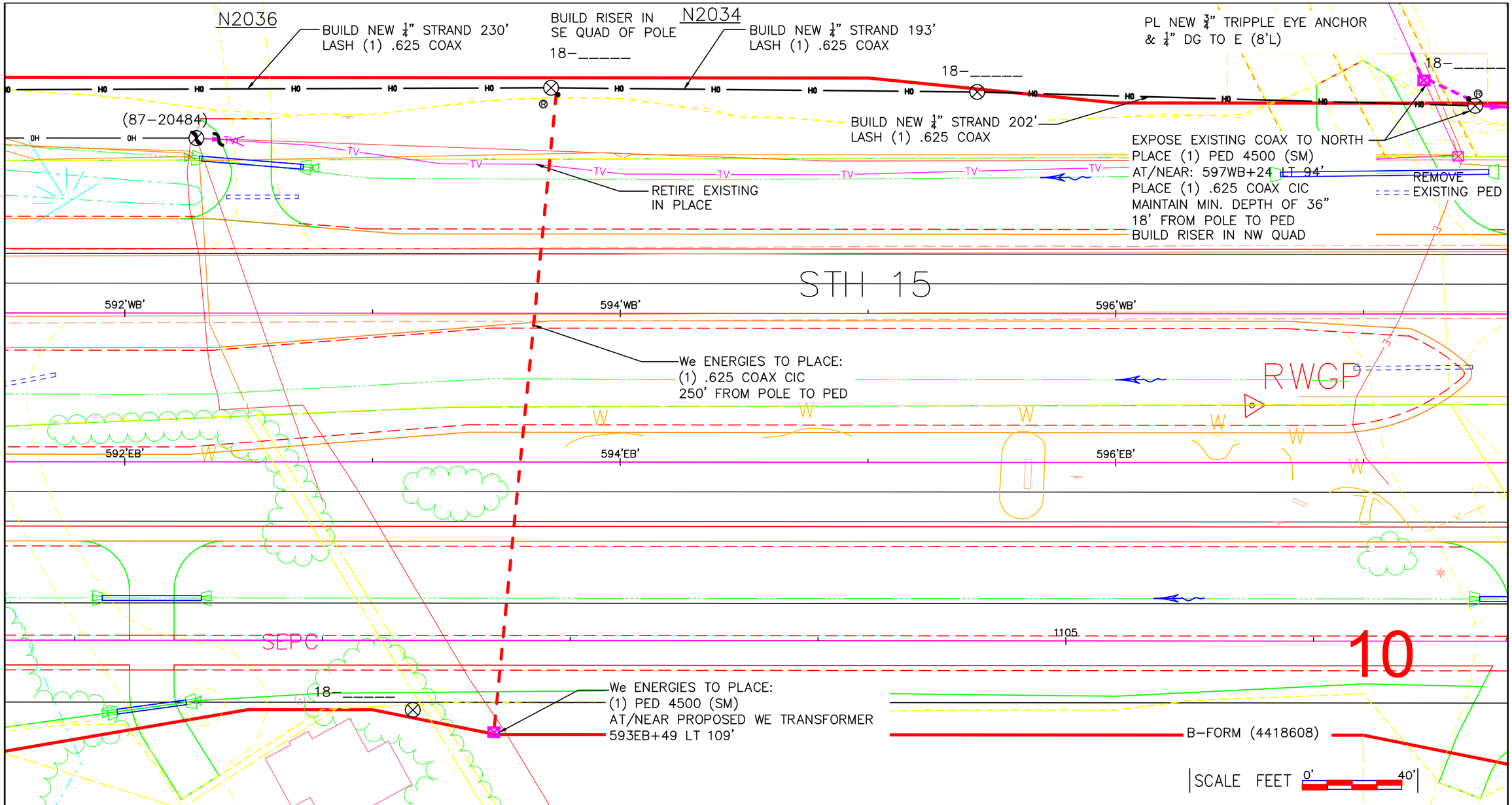

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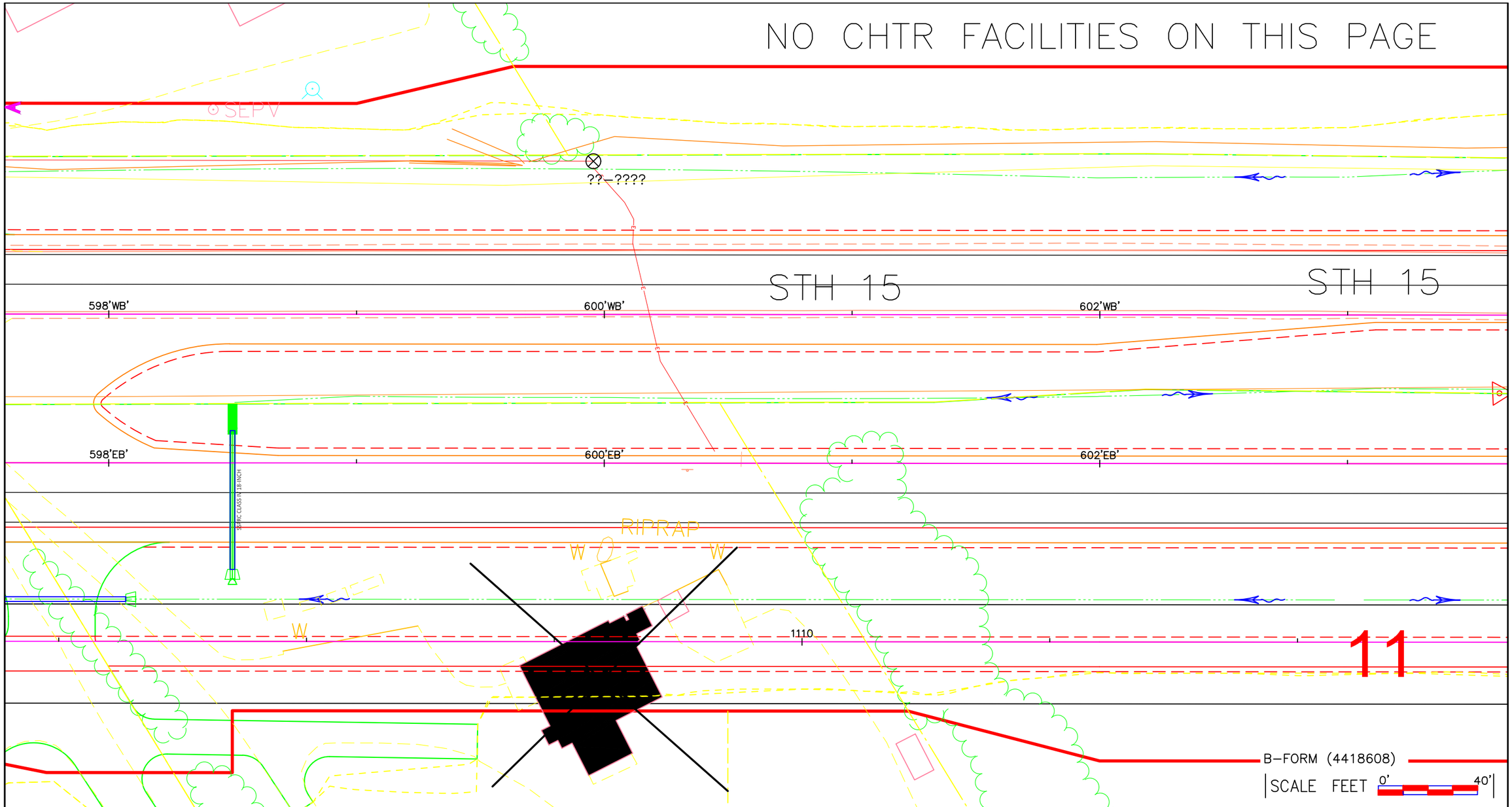

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NO CHTR FACILITIES ON THIS PAGE

RWGP

RWGP

STH 15

604'WB'

606'WB'

608'WB'

RWGP

RWGP

604'EB'

606'EB'

608'EB'

SSPIPE CLASS IV 18 INCH

SSPIPE CLASS IV 18 INCH

1115

12

B–FORM (4418608)

SCALE FEET 0' 40'

mi-TECH

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PROJECT #1806874

Charter COMMUNICATIONS

3520 DESTINATION DRIVE

APPLETON, WI 54911

N

ADDRESS

STH 15

LOCATION

OUTAGAMIE COUNTY, WI

FIELDED BY: Darrell Gore DATE:

DRAFTED BY: Darrell Gore DATE:

DESIGNED BY: DATE:

ASBUILTS BY: DATE:

11 12 13

6/15/2020 12:51:05 PM

NO CHTR FACILITIES ON THIS PAGE

BERM

610'WB'

612'WB'

STH 15

614'WB'

STH

SAN

RWGP

610'EB'

612'EB'

614'EB'

13

1120

B-FORM (4418608)

SCALE FEET 0' 40'

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

- STRAND PROPOSED
- STRAND EXISTING
- PROPOSED UNDERGROUND
- JOINT U/G WITH POWER
- CABLE TV
- FIBER
- TELEPHONE
- CITY CONDUIT
- GAS
- ELECTRICAL
- MMSD
- STORM
- SANITARY
- WATER
- STEAM
- ROW

mi-TECH

PROJECT #1806874

Charter COMMUNICATIONS

3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS: STH 15

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12 13 14

6/15/2020 12:51:31 PM

BUILD RISER IN NE QUAD OF POLE.

18–_____

18–_____

18–_____

PL NEW ¾" TRIPPLE EYE ANCHOR & ¼" DG TO W (15'L)

BUILD RISER IN NW QUAD OF POLE.

FNB

RIPRAP

BUILD NEW ¼" STRAND 210' LASH (1) .625 COAX

BUILD NEW ¼" STRAND 215' LASH (1) .625 COAX

BUILD NEW ¼" STRAND 235' LASH (1) .625 COAX

(87–20453)

(87–20452)

(08–00014)

We ENERGIES TO PLACE:
(1) 2" DUCT
140' FROM POLE TO SPLICE PIT
CHTR TO PULL (1) .625 COAX IN DUCT.
EXPOSE EXISTING COAX TO NORTH
RELOCATE TO PED.
PLACE (1) PED 4500 (SM)
AT/NEAR: 619WB+89 LT 114'

RETIRE EXISTING IN PLACE

STH 15

616'WB'

618'WB'

620'WB'

616'EB'

618'EB'

620'EB'

MH

We ENERGIES TO PLACE:
(1) .625 COAX CIC
350' FROM POLE TO PED

14

JULIUS DR

WATER TOWER

U/C

(87–20454)

B–FORM (4418608)

SCALE FEET 0' 40'

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

ADDRESS: STH 15

LOCATION: OUTAGAMIE COUNTY, WI

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14-A
13 | 14 | 15
14-B

6/15/2020 12:51:57 PM

(84-21498)

TIE POINT FOR COAX.
TRANSFER AERIAL
NORTH TO NEW POLE.

JULIUS DR

(84-21497)

We ENERGIES TO PLACE:
(1) .625 COAX CIC
480' FROM POLE TO PED

RIPRAP

RIPRAP

RIPRAP

14A

B-FORM (4418608)

SCALE FEET 0' 40'

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS: STH 15	LOCATION: OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore DATE:	14-D
DRAFTED BY: Darrell Gore DATE:	14-A
DESIGNED BY: DATE:	
ASBUILTS BY: DATE:	14

6/15/2020 12:52:23 PM

We ENERGIES TO PLACE:
(1) PED 5500 (MD)
AT/NEAR PROPOSED VFI

We ENERGIES TO PLACE:
(1) .625 COAX CIC
70' FROM PED TO PED

(10-07343)

We ENERGIES TO PLACE:
(1) .625 COAX CIC
290' FROM PED TO PED

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE TRANSFORMER

69-3791

We ENERGIES TO PLACE:
(1) .625 COAX CIC
450' FROM PED TO PED

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE TRANSFORMER

We ENERGIES TO PLACE:
(1) .625 COAX CIC
360' FROM PED TO PED

JULIUS DR

CLOVER LN

(67-1353)

We ENERGIES TO PLACE:
(1) .625 COAX CIC
145' FROM PED TO PED

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR SPLICE PIT
CHTR TO EXPOSE EXISTING
COAX GOING TO BLDG AND
RELOCATE TO PED.

We ENERGIES TO PLACE:
(1) PED 5500 (MD)
AT/NEAR PROPOSED WE TRANSFORMER

14B

B-FORM (4418608)

SCALE FEET 0' 40'

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

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APPLETON, WI 54911

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14 | 14-B | 15-A | 14-C

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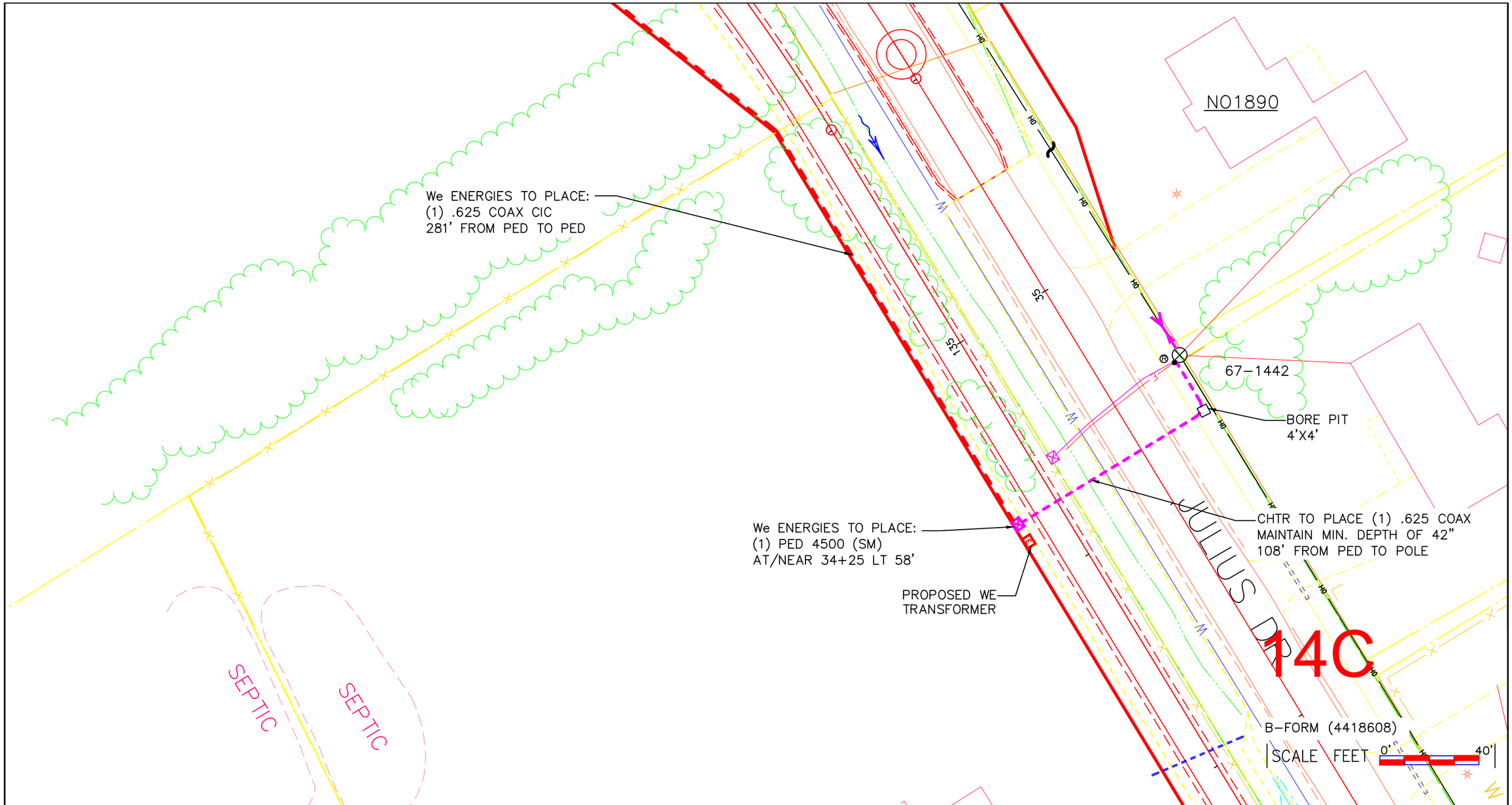

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

- STRAND PROPOSED
- STRAND EXISTING
- PROPOSED UNDERGROUND
- JOINT U/G WITH POWER
- CABLE TV
- FIBER
- TELEPHONE
- CITY CONDUIT
- GAS
- ELECTRICAL
- MMSD
- STORM
- SANITARY
- WATER
- STEAM
- ROW

PROJECT #1806874

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APPLETON, WI 54911

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LOCATION
OUTAGAMIE COUNTY, WI

14-B
14-C
15-B

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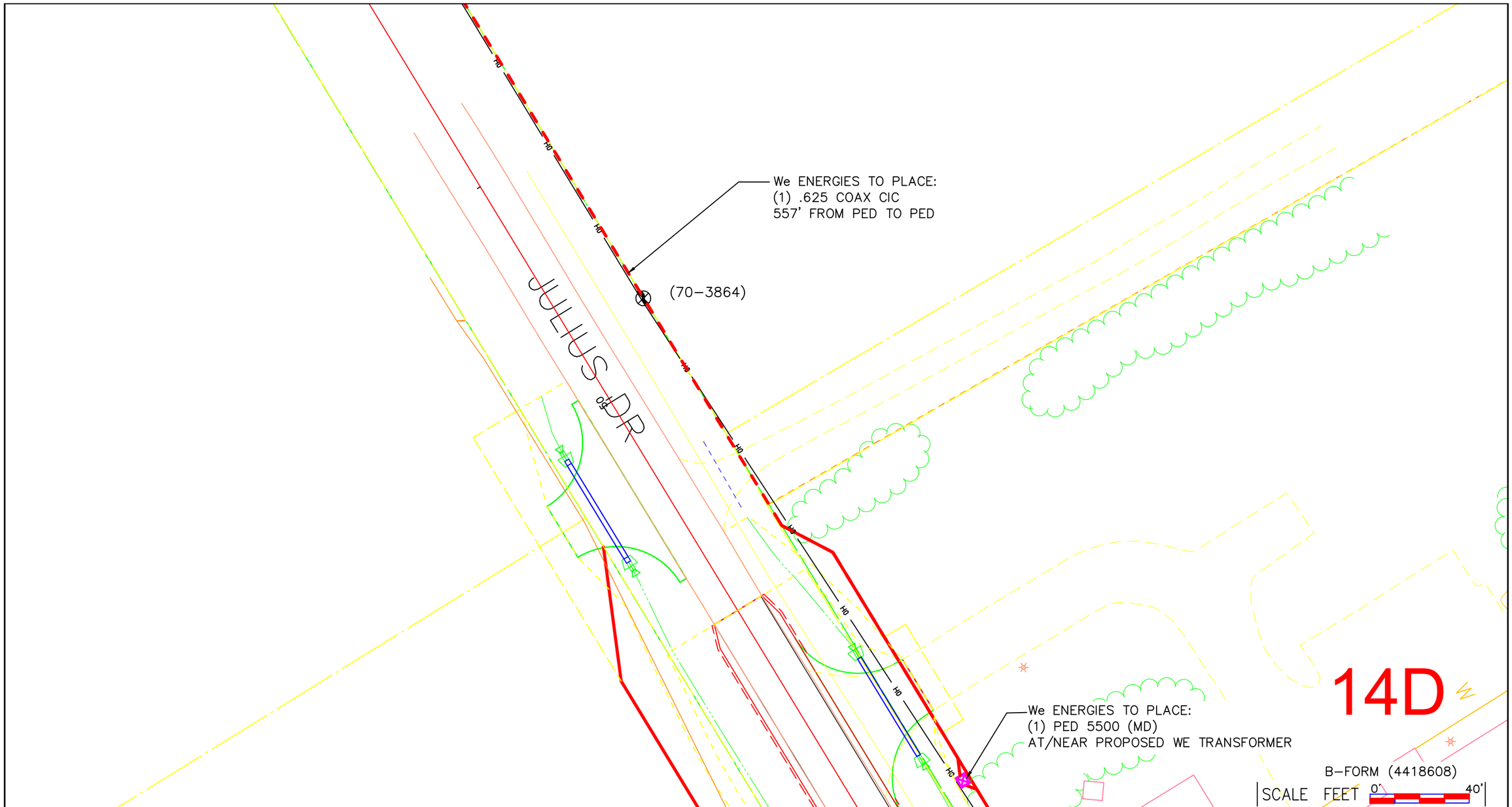

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
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- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

- STRAND PROPOSED
- STRAND EXISTING
- PROPOSED UNDERGROUND
- JOINT U/G WITH POWER
- CABLE TV
- FIBER
- TELEPHONE
- CITY CONDUIT
- GAS
- ELECTRICAL
- MMSD
- STORM
- SANITARY
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- STEAM
- ROW

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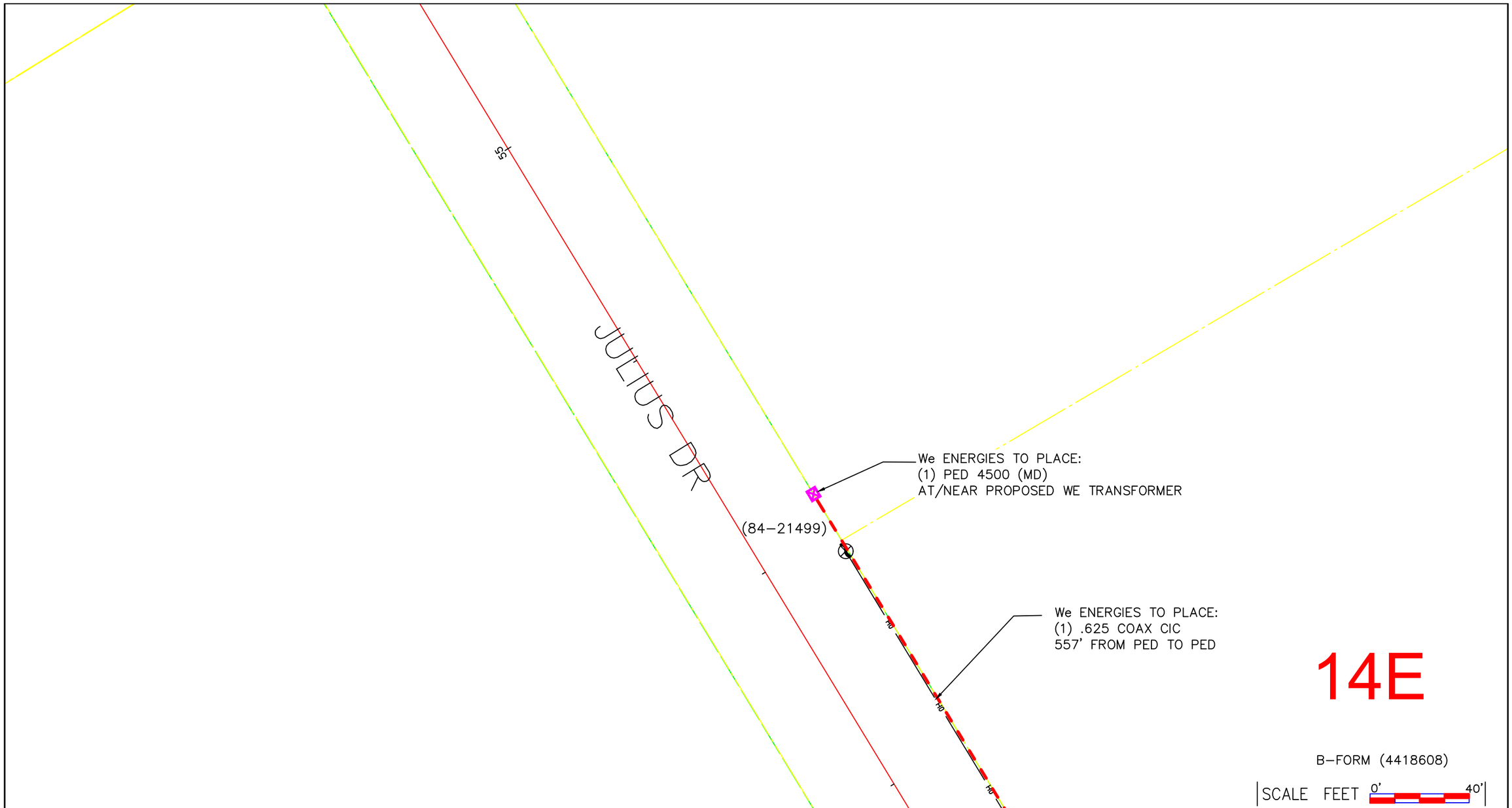
ASBUILTS BY: DATE:	

14-E
14-D
14-A

6/15/2020 12:53:42 PM



mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED	OH	OH
STRAND EXISTING	OH	OH
PROPOSED UNDERGROUND		
JOINT U/G WITH POWER		
CABLE TV	TV	TV
FIBER	FO	FO
TELEPHONE	T	T
CITY CONDUIT	CUC	CUC
GAS	G	G
ELECTRICAL	E	E
MMSD	MMSD	MMSD
STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
STEAM	STM	STM
ROW	ROW	ROW

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APPLETON, WI 54911

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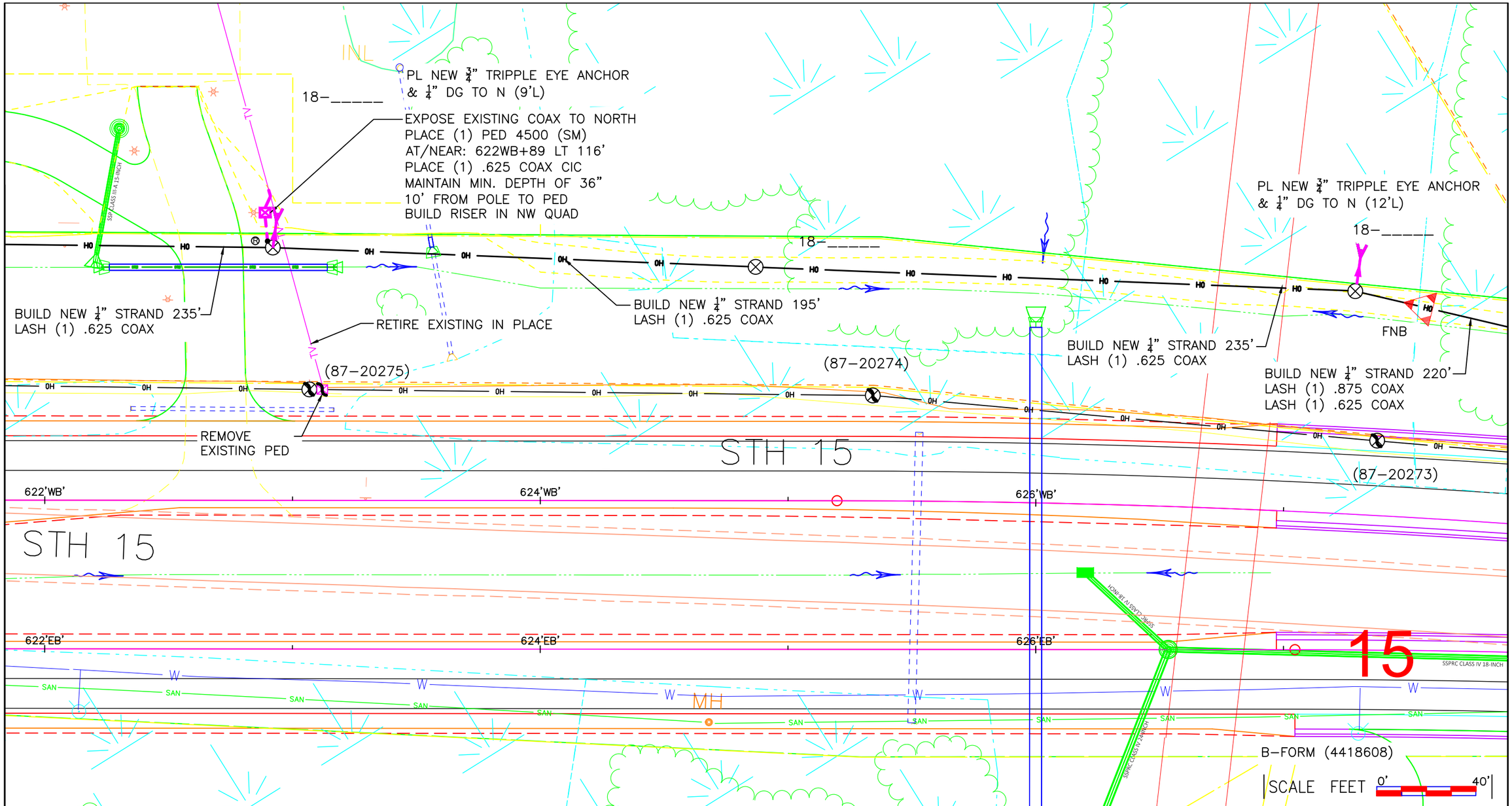
14-E

14-D

6/15/2020 12:54:08 PM



mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
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- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
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- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED	OH
STRAND EXISTING	OH
PROPOSED UNDERGROUND	
JOINT U/G WITH POWER	
CABLE TV	TV
FIBER	FO
TELEPHONE	T
CITY CONDUIT	CUC
GAS	G
ELECTRICAL	E
MMSD	MMSD
STORM	STO
SANITARY	SAN
WATER	W
STEAM	STM
ROW	ROW

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14 | 15 | 16 | 15-A

6/15/2020 12:54:34 PM

RWGP

CLOVER LN

OH

(71–3469)

We ENERGIES TO PLACE:
(1) .625 COAX CIC
450' FROM PED TO PED

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE TRANSFORMER

71–3470

15A

B–FORM (4418608)

SCALE FEET 0' 40'

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED, STRAND EXISTING, PROPOSED UNDERGROUND, JOINT U/G WITH POWER, CABLE TV, FIBER, TELEPHONE, CITY CONDUIT, GAS, ELECTRICAL, MMSD, STORM, SANITARY, WATER, STEAM, ROW

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15 | 14-B | 15-A | 15-B

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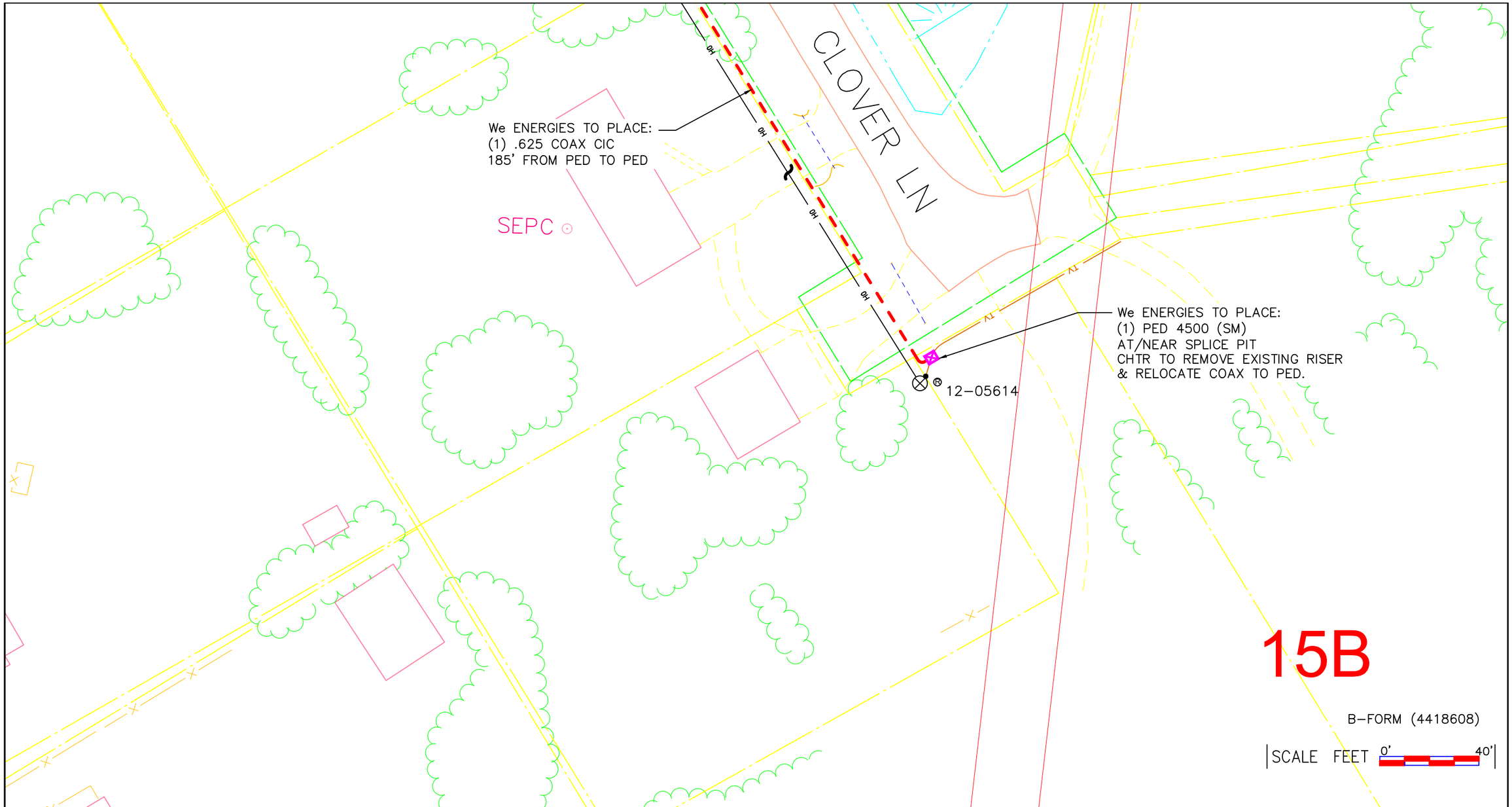

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
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- EXISTING FIBER COIL
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- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
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STEAM
ROW

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14-C
15-B

6/15/2020 12:55:26 PM

SCALE FEET 0' 40'

B-FORM (4418608)

16

BUILD RISER IN SW QUAD OF POLE.

18-_____

BUILD NEW ¼" STRAND 230'
LASH (1) .875 COAX
LASH (1) .625 COAX

BUILD NEW ¼" STRAND 220'
LASH (1) .875 COAX
LASH (1) .625 COAX

BUILD NEW ¼" STRAND 189'
LASH (1) .875 COAX
LASH (1) .625 COAX

628'WB'

We ENERGIES TO PLACE:
(1) .625 COAX CIC
170' FROM POLE TO PED

(87-20272)

630'WB'

(87-20271)

632'WB'

RETIRE EXISTING
IN PLACE

628'EB'

630'EB'

632'EB'

STH 15

REMOVE EXISTING
PED

REMOVE EXISTING
PED RELOCATE
DROPS TO NEW PED.

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE TRANSFORMER

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE PED

We ENERGIES TO PLACE:
(1) .625 COAX CIC
50' FROM PED TO PED

We ENERGIES TO PLACE:
(1) .625 COAX CIC
325' FROM PED TO PED

(66-1662)

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE TRANSFORMER

We ENERGIES TO PLACE:
(1) .625 COAX CIC
185' FROM PED TO PED

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

ADDRESS: STH 15

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15 16 17

6/15/2020 12:55:52 PM

BUILD NEW ¼" STRAND 251'
LASH (1) .875 COAX
LASH (1) .625 COAX

EXPOSE EXISTING COAX TO NORTH
PLACE (1) PED 4500 (SM)
AT/NEAR: 635WB+94 LT 63'
PLACE (1) .625 COAX CIC
MAINTAIN MIN. DEPTH OF 36"
7' FROM POLE TO PED
BUILD RISER IN NE QUAD

TRANSFER SPAN
NORTH TO NEW POLE.

BUILD NEW ¼" STRAND 238'
LASH (1) .875 COAX
LASH (1) .625 COAX

PL NEW ¾" TRIPPLE EYE ANCHOR
& ¼" DG TO S (9'L)

BUILD NEW ¼" STRAND 185'
LASH (1) .875 COAX
LASH (1) .625 COAX

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED WE POLE

We ENERGIES TO PLACE:
(1) .625 COAX CIC
595' FROM PED TO PED

We ENERGIES TO PLACE:
(1) .625 COAX CIC
185' FROM PED TO PED

REMOVE
EXISTING PED

(87-20268)
(87-20270)
(67-20269)
(87-20268)
18-_____
18-_____
18-_____
RIPRAP
FLAG
RIPRAP
MH
MH
MH
MH
RWGP
RWGP
STH 15
34'WB'
'EB'
636'WB'
636'EB'
638'WB'
638'EB'
640'WB'
640'EB'
SSPRC CLASS IV 15-INCH
SSPRC CLASS IV 15-INCH
SSPRC CLASS IV 24-INCH
RESIDENCE
17

B-FORM (4418609)
SCALE FEET 0' 40'

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter
COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS	LOCATION
STH 15	OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore DATE:	
DRAFTED BY: Darrell Gore DATE:	
DESIGNED BY: DATE:	
ASBUILTS BY: DATE:	

16 | 17 | 18
17 A

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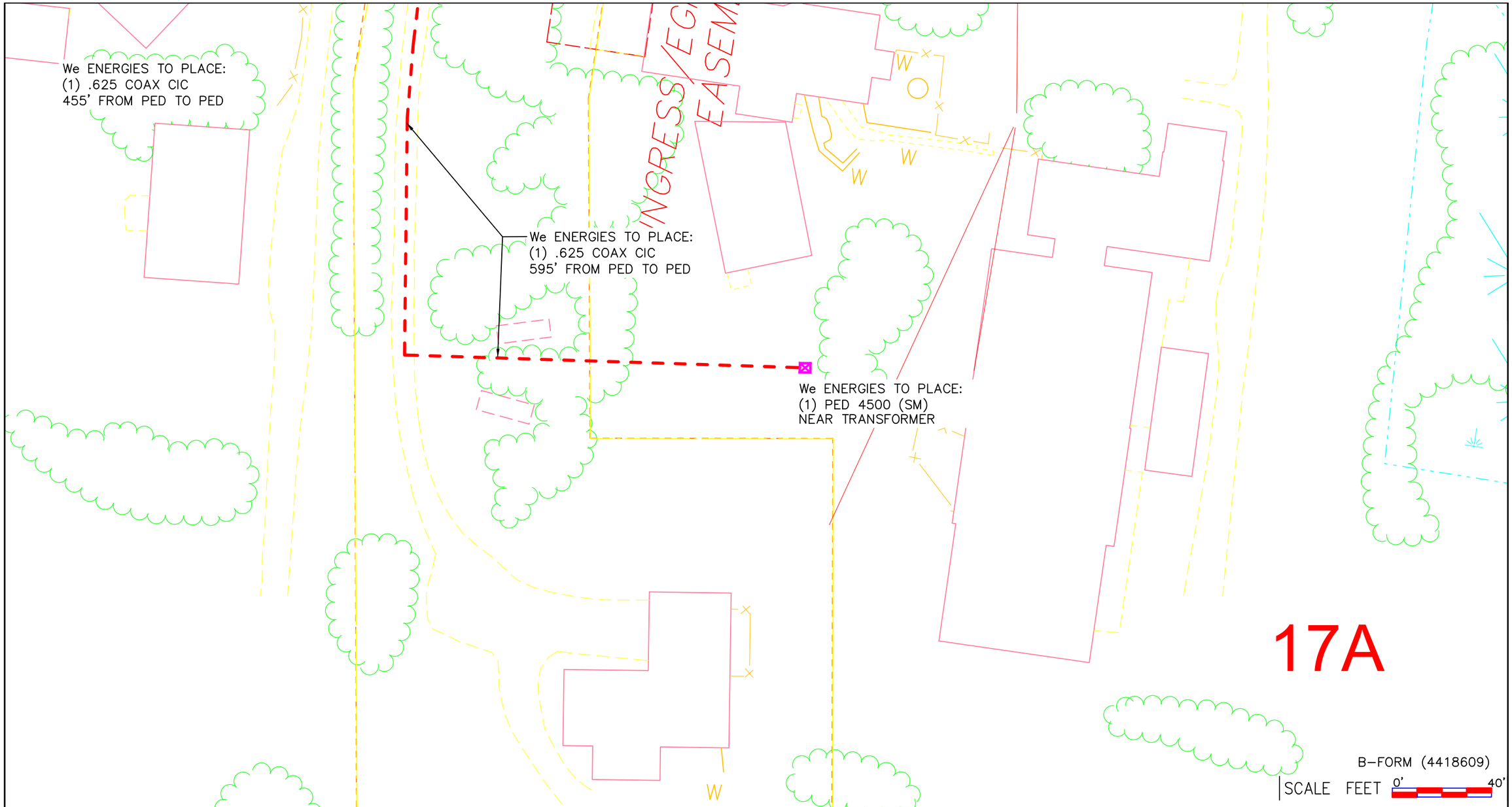

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED	OH	OH
STRAND EXISTING	OH	OH
PROPOSED UNDERGROUND		
JOINT U/G WITH POWER		
CABLE TV	TV	TV
FIBER	FO	FO
TELEPHONE	T	T
CITY CONDUIT	CUC	CUC
GAS	G	G
ELECTRICAL	E	E
MMSD	MMSD	MMSD
STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
STEAM	STM	STM
ROW	ROW	ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS	STH 15
LOCATION	OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore	DATE:
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ASBUILTS BY:	DATE:

17

17 A

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PL NEW ¾" TRIPPLE EYE ANCHOR
& ¼" DG TO N (12'L)

18–_____
(87–20261)

BUILD NEW ¼" STRAND 235'
LASH (1) .875 COAX
LASH (1) .625 COAX

18–_____

BUILD NEW ¼" STRAND 245'
LASH (1) .875 COAX
LASH (1) .625 COAX

18–_____

(87–20266)

(02–10468)

642'WB'

We ENERGIES TO PLACE:
(1) .625 COAX CIC
197' FROM POLE TO PED

642'EB'

RETIRE EXISTING
IN PLACE

644'WB'

STH 15

644'EB'

646'WB'

646'EB'

REMOVE EXISTING
PED

We ENERGIES TO PLACE:
(1) .625 COAX CIC
150' FROM PED TO PED

EXPOSE EXISTING COAX TO SOUTH
RELOCATE TO PED

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR 642WB+59 RT62'

FUTURE 225'

RWGP

We ENERGIES TO PLACE:
(1) PED 4500 (SM)
AT/NEAR PROPOSED TRANSFORMER

18

We ENERGIES TO PLACE:
(1) .625 COAX CIC
515' FROM PED TO PED

B–FORM (4418609)

SCALE FEET 0' 40'

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

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3520 DESTINATION DRIVE
APPLETON, WI 54911

N

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STH 15	OUTAGAMIE COUNTY, WI
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DRAFTED BY: Darrell Gore DATE:	
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17 18 19

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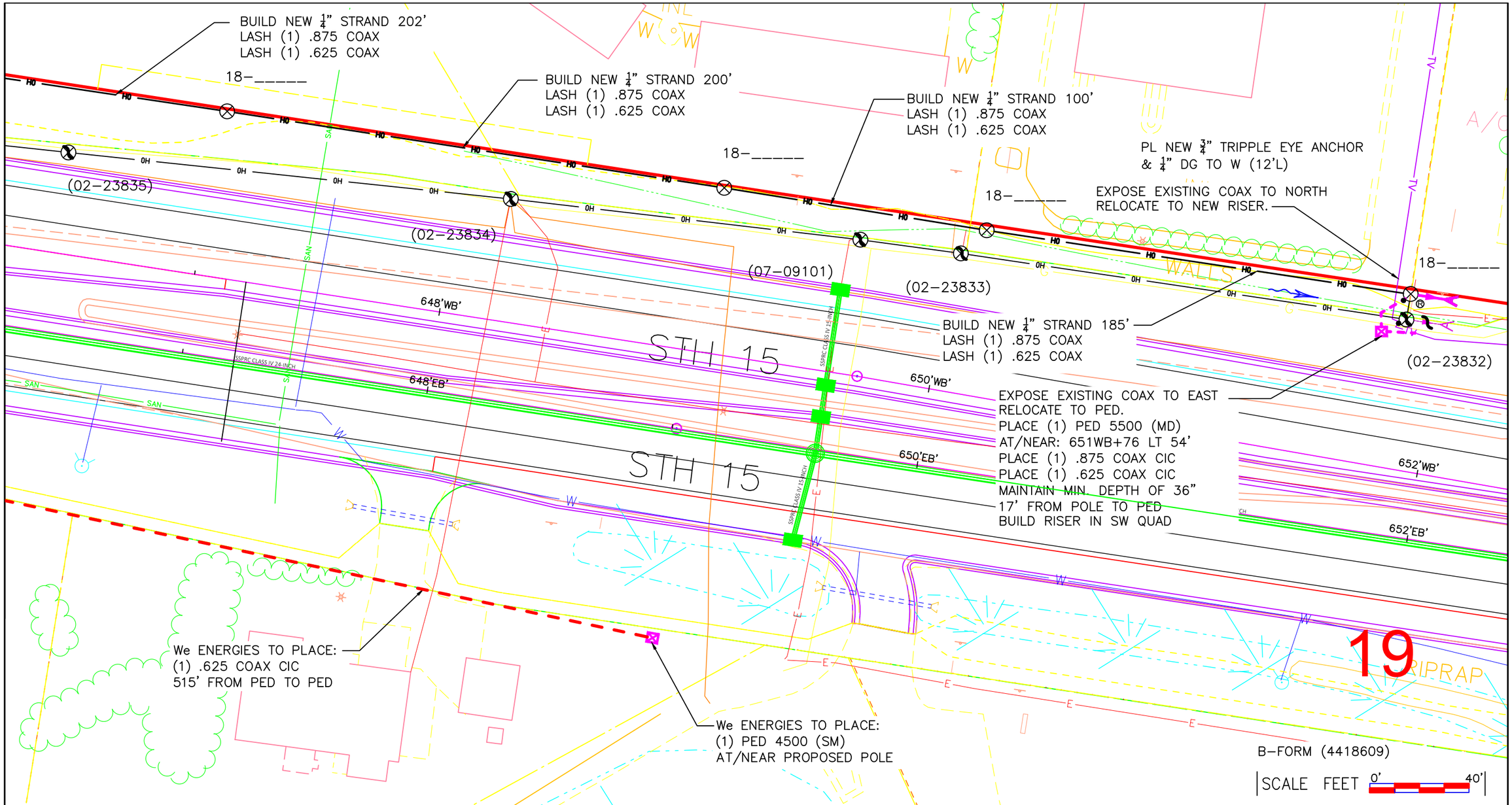

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
- NEW PEDESTAL
- ANCHOR
- NEW ANCHOR
- JOINT ANCHOR
- NEW JOINT ANCHOR
- FOREIGN ANCHOR
- DOWNGUY
- NEW DOWNGUY
- UTILITY VALVE
- MANHOLE
- EXISTING FIBER COIL
- NEW FIBER COIL
- EXISTING HAND HOLE
- NEW HAND HOLE
- SHRUBS
- DECIDUOUS TREE
- NEW GROUND
- PROPERTY LINE
- ROADWAY CENTERLINE
- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

ADDRESS	LOCATION
STH 15	OUTAGAMIE COUNTY, WI
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DESIGNED BY: DATE:	
ASBUILTS BY: DATE:	

18 19 20

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SCALE FEET 0' 40'

B–FORM (4418609)

20

CHARTER TO PURCHASE EXISTING RISER POLE 02–23830 NEAR STA:660WB+35 55' LT.

REQUESTED TO BE PRESENT AT TIME OF CONSTRUCTION

STH 15

STH 15

LILY OF THE VALLEY DR

PI: 14+54.29

654'WB'

654'EB'

656'WB'

656'EB'

658'WB'

658'EB'

SSPRC CLASS IV 15-INCH

SSPRC CLASS IV 12-INCH

SSPRC CLASS IV 24-38-INCH

MH

INL

CB

W

E

TV

FO

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
- EXISTING PEDESTAL
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- NEW ANCHOR
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- FIBER WARNING SIGN
- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED — OH
STRAND EXISTING — OH
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV — TV
FIBER — FO
TELEPHONE — T
CITY CONDUIT — CUC
GAS — G
ELECTRICAL — E
MMSD — MMSD
STORM — STO
SANITARY — SAN
WATER — W
STEAM — STM
ROW — ROW

mi-TECH

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS	LOCATION
STH 15	OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore	DATE:
DRAFTED BY: Darrell Gore	DATE:
DESIGNED BY:	DATE:
ASBUILTS BY:	DATE:

21 19 20

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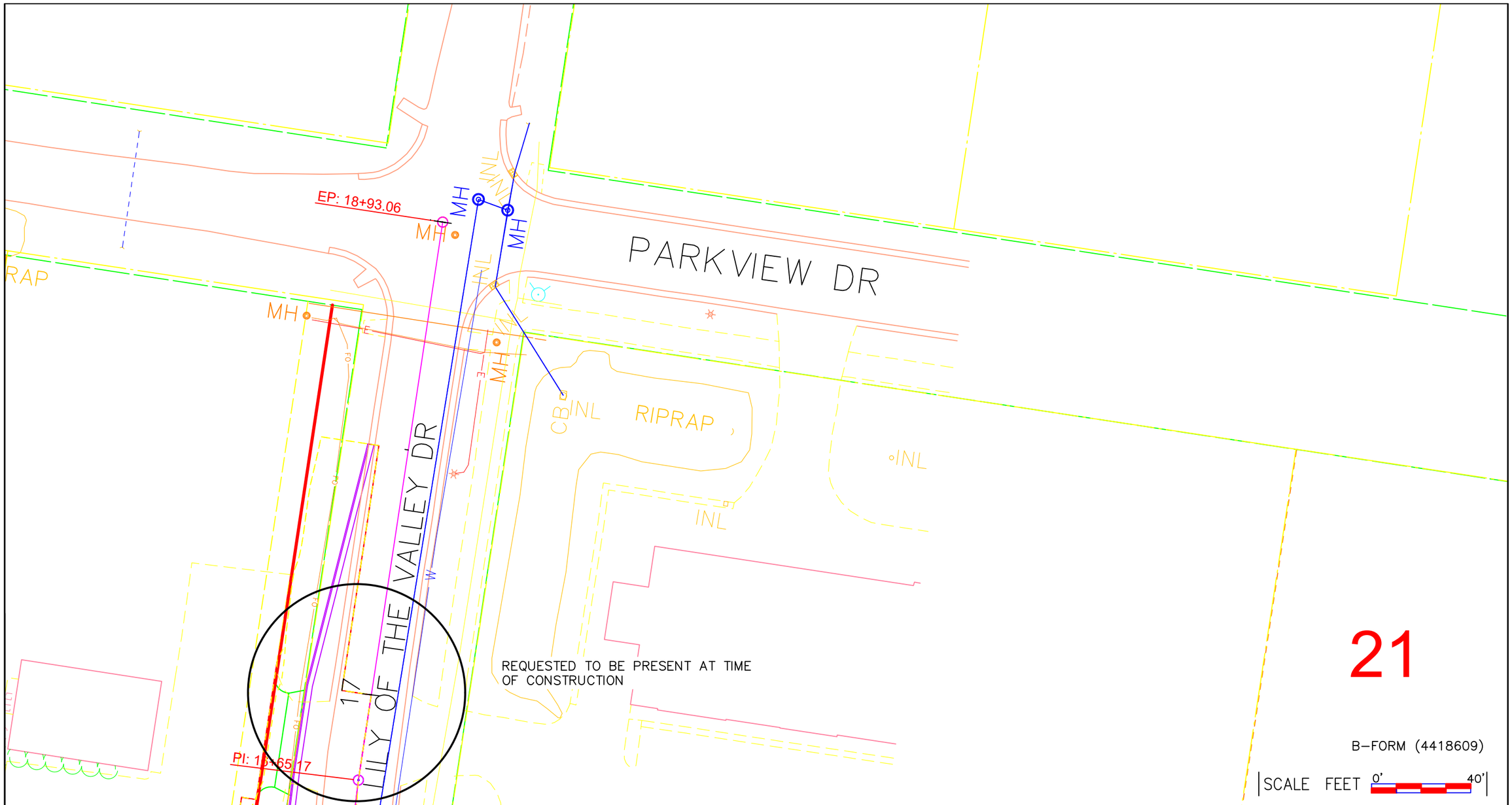

mi-TECH

LEGEND

- JOINT POLE
- NEW JOINT POLE
- POWER POLE
- NEW POWER POLE
- TELEPHONE POLE
- NEW TELEPHONE POLE
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- TRAFFIC LIGHT
- HYDRANT
- SIGNS
- STREET LIGHT
- CONIFEROUS TREE

LINETYPES

STRAND PROPOSED	OH	OH
STRAND EXISTING	OH	OH
PROPOSED UNDERGROUND		
JOINT U/G WITH POWER		
CABLE TV	TV	TV
FIBER	FO	FO
TELEPHONE	T	T
CITY CONDUIT	CUC	CUC
GAS	G	G
ELECTRICAL	E	E
MMSD	MMSD	MMSD
STORM	STO	STO
SANITARY	SAN	SAN
WATER	W	W
STEAM	STM	STM
ROW	ROW	ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS: STH 15	LOCATION: OUTAGAMIE COUNTY, WI
FIELDED BY: Darrell Gore — DATE:	
DRAFTED BY: Darrell Gore — DATE:	
DESIGNED BY: — DATE:	
ASBUILTS BY: — DATE:	

21 | 19 | 20

6/15/2020 12:58:29 PM

From:	Tekler, Lindsay M - DNR
To:	Darrell Gore
Subject:	RE: Approval needed for Project ID: STH 15 - Lily of the Valley DR - CTH JJ - Outagamie County - Charter ID:1806874
Date:	Friday, September 11, 2020 11:29:02 AM
Attachments:	image001.png

Hi Darrell,

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

The attached project's work being conducted by Charter, and as described below, will not require a **waterway** permit under Chapter 30 (WI Statutes), as all "surface waters" (dashed white and/or solid blue/white lines) will be directionally bored or placed aerially. This determination also assumes all waterway channels will not be driven across with vehicles/equipment (other than driving across the road pavement or over existing culvert) or temporarily bridged for access across them. However, if any "surface waters" for the **entire project area** (including any construction areas not shown in the attached map, located outside of WisDOT right-of-way, if applicable) will be plowed, trenched, and/or the natural waterway channel (beyond road toe of slope) driven across or bridged for vehicle access, a waterway permit application must be submitted to the DNR and waterway crossing permit coverage granted by the DNR prior to construction of the entire project. The work to be conducted by We Energies will require a waterway permit from the DNR as trenching through a waterway is shown on page 1 of the map.

The attached project, and as described below, may require a **wetland** permit under Chapter 281.36 (WI Statutes) as there are "mapped wetlands" (orange polygons) and/or "wetland indicators and soils" (purple polygons) mapped within the project area shown on the attached Surface Water Data Viewer map. In lieu of a wetland delineation being performed, you are **required to assume both** of these wetland mapping layers in the Surface Water Data Viewer are wetlands, and either avoid disturbing wetlands, or obtain wetland permit coverage from the DNR prior to construction. You must determine if the **entire project** (including any construction areas not shown in the attached map, located outside of WisDOT right-of-way, if applicable) will disturb wetlands, including for any wetlands that may exist that are not mapped within the Surface Water Data Viewer:

- If wetland disturbance (from any excavation such as bore pits or trenching in wetland, vehicle access (including plowing) across wetlands that results in soil rutting or soil mixing (saturated wetlands), placing structures such as vaults, pedestals, or cabinets in wetland, etc.) will be **less than 400 sq. ft. total along the entire project,** you must qualify for and follow all terms, conditions, and eligibility criteria of WDNR-GP3-2018 (Non-Reporting Coverage).
- If wetland disturbance (from any excavation such as bore pits or trenching in wetland, vehicle access (including plowing) across wetlands that results in soil rutting or soil mixing (saturated wetlands), placing structures such as vaults, pedestals, or cabinets in wetland, etc.) will be **more than 400 sq. ft. total along the entire project,** a wetland permit application must be submitted to DNR and wetland permit coverage granted by the DNR prior to construction of the entire project (WDNR-GP3-2018 for Reporting Coverage).

Appropriate sediment and erosion control measures must be installed prior to construction to

prevent sedimentation into wetlands and waterways, and must be maintained throughout construction and site restoration.

-

Disclaimers:

- This DNR jurisdictional determination is based only on the project area/route shown on the attached figure(s) provided by the requester. If your project area/route extends beyond the area shown in the attached figure(s), those additional work areas/route were not evaluated for wetland or waterway permitting requirements by the DNR, and you are responsible for determining if those additional work areas/route necessitate obtaining permit coverage to ensure compliance with state wetland and waterway law.
- This DNR jurisdictional determination did not include a review for local or federal wetland or waterway permit requirements. You are responsible for contacting local and federal permitting authorities to ensure compliance with local and federal law.
- This DNR jurisdictional determination did not include a review for other permits/approvals that may be required from other state agencies, such as but not limited to Cultural/archaeological/historical resources.
- This DNR jurisdictional determination did not include a review for other permits/approvals that may be require for your project from **other DNR programs**, including but not limited to 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) wastewater plan review (for sanitary sewer), or easements needed for crossing of WDNR property (state lands, state trails, etc.).

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

1300 W Clairemont Ave
Eau Claire, WI 54701
Cell: (608) 535-2602
Email: Lindsay.Tekler@wisconsin.gov

From: Darrell Gore <dgore@mi-tech.us>
Sent: Monday, August 31, 2020 9:43 AM
To: Tekler, Lindsay M - DNR <Lindsay.Tekler@wisconsin.gov>
Subject: Approval needed for Project ID: STH 15 - Lily of the Valley DR - CTH JJ - Outagamie County - Charter ID:1806874

Hi Lindsay,

I have attached the documents you will need to make your jurisdictional determination for this project.
This is a Trans 220 project. Please give me a call if you should have any concerns or questions.

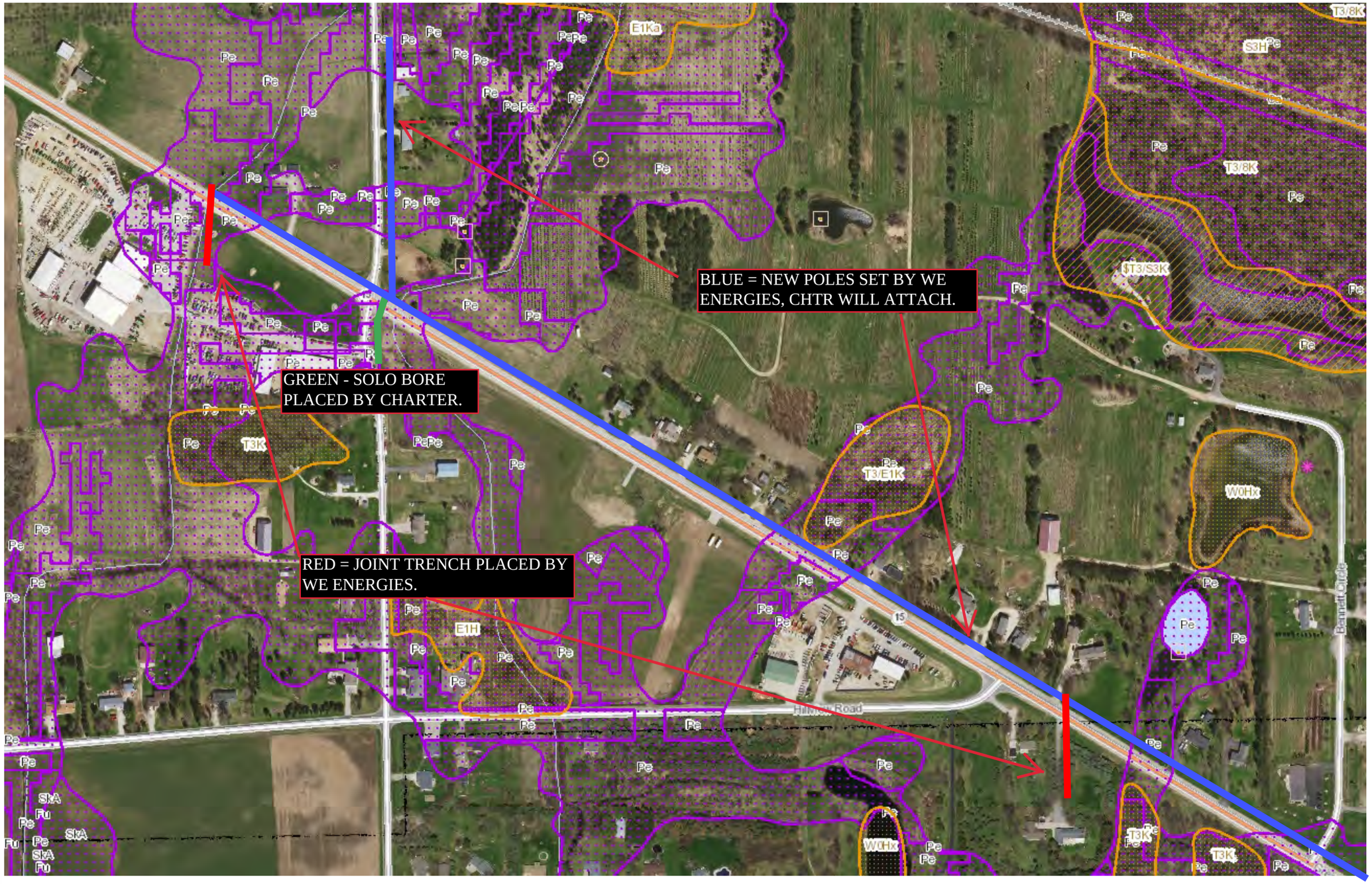
Thanks,

Darrell Gore | OSP Designer

Mi-Tech Services Inc.
office: 262.649.5386 x2504 | cell: 920.602.6591
dgore@mi-tech.us | www.mi-tech.us
4125 N 124th St.; Suite D
Brookfield, WI 53005

THE INFORMATION CONTAINED IN THIS COMMUNICATION MAY BE CONFIDENTIAL, IS INTENDED ONLY FOR THE USE OF RECIPIENT(S) NAMED ABOVE, AND MAY BE LEGALLY PRIVILEGED. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS COMMUNICATION, OR ANY OF ITS CONTENTS, IS STRICTLY PROHIBITED.

Wetland Map - Charter ID:1806874



Legend

- Wetland Identifications and Confirmations
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- Wetland Class Points
  - Dammed pond
  - Excavated pond
  - Filled excavated pond
  - Filled/drained wetland
  - Wetland too small to delineate
- Filled Points
- Wetland Class Areas
  - Wetland
  - Upland
- Filled Areas
- NRCS Wetspots
- Maximum Extent Wetland Indicators
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to EN_Image_Basemap_Leaf_Off

0.1 0 0.06 0.1 Miles

1:3,960

NAD_1983_HARN_Wisconsin_TM

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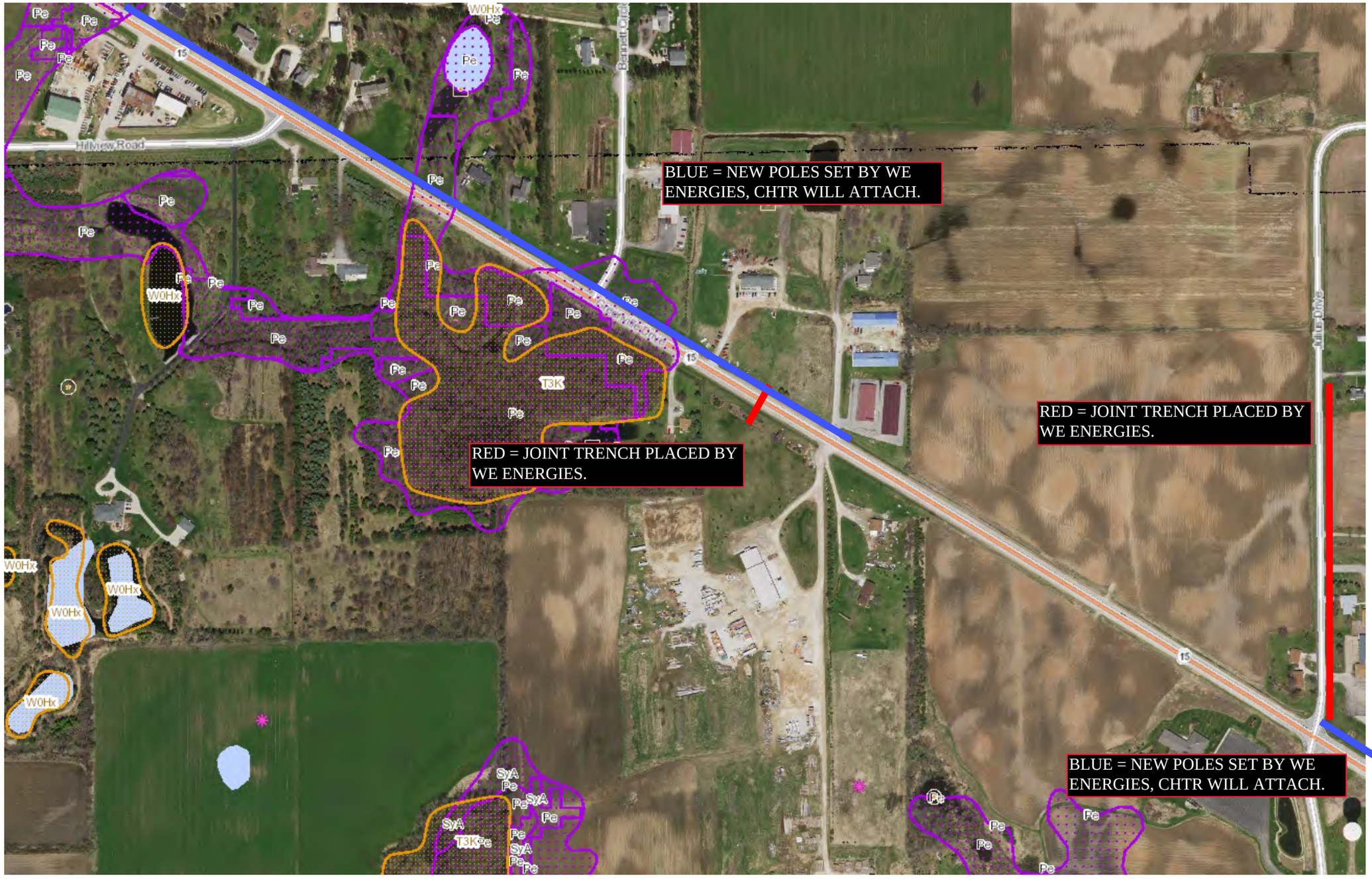
Notes

Wetland Map - Charter ID:1806874



Legend

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  - Wetland Class Points
    - Dammed pond
    - Excavated pond
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    - Filled/drained wetland
    - Wetland too small to delineate
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    - Wetland
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  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to EN_Image_Basemap_Leaf_Off

0.1 0 0.06 0.1 Miles

1:3,960

NAD_1983_HARN_Wisconsin_TM

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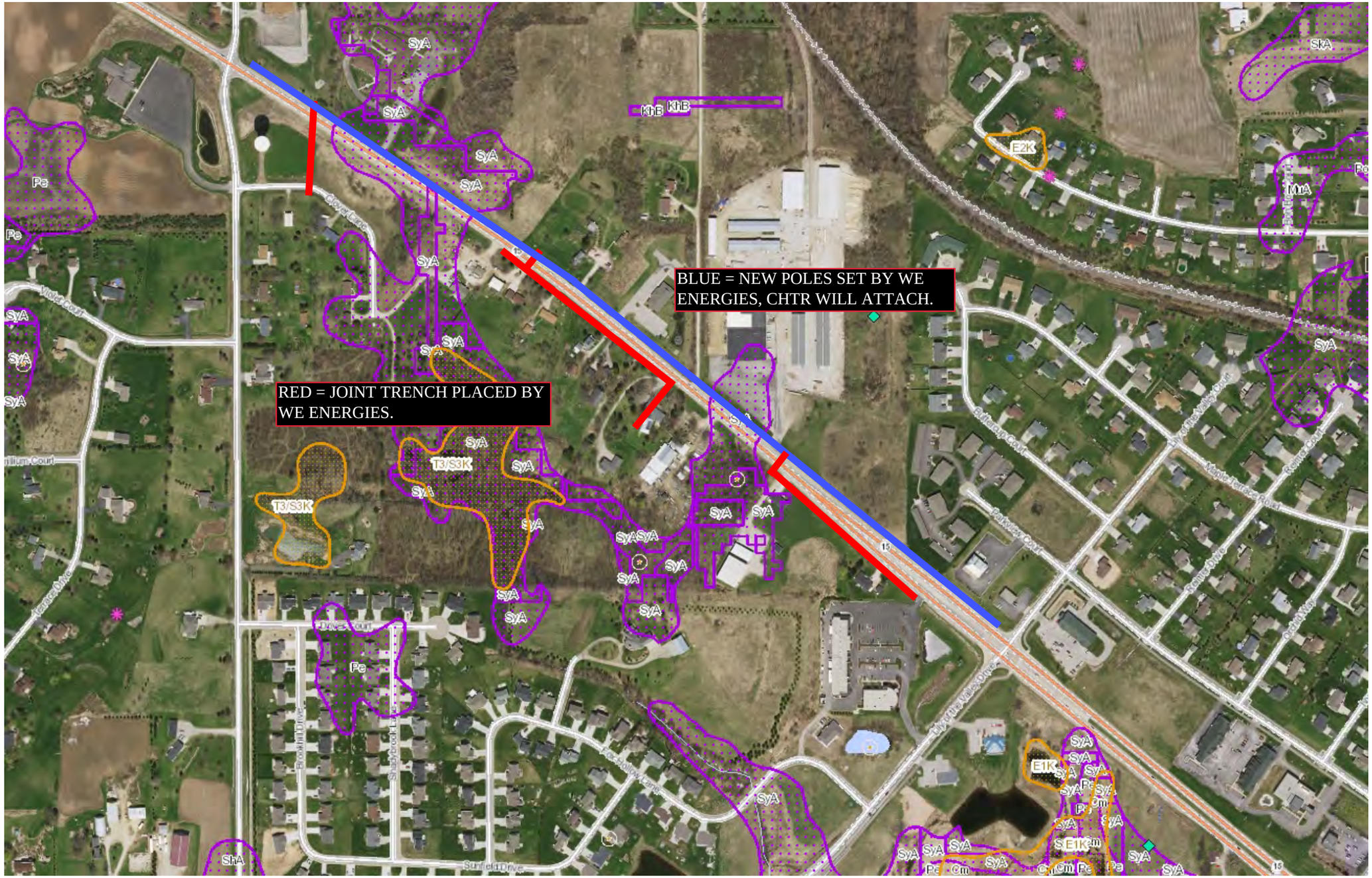
Notes

Wetland Map Charter ID:1806874



Legend

- Wetland Identifications and Confirmations
  - Wetland Class Points
    - Dammed pond
    - Excavated pond
    - Filled excavated pond
    - Filled/drained wetland
    - Wetland too small to delineate
  - Filled Points
  - Wetland Class Areas
    - Wetland
    - Upland
  - Filled Areas
  - Wetland Class Points
    - Dammed pond
    - Excavated pond
    - Filled excavated pond
    - Filled/drained wetland
    - Wetland too small to delineate
  - Filled Points
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    - Wetland
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  - Filled Areas
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- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands
- Rivers and Streams
- Intermittent Streams
- Lakes and Open water
- Index to EN_Image_Basemap_Leaf_Off

0.1 0 0.07 0.1 Miles

1:4,699

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Notes

THESE TRAFFIC CONTROLS MEASURES WILL BE USED WITHIN THE JOB SKETCH

AS WORK OPERATIONS PROCEED ON THESE PRINTS A "WORK ZONE SAFETY" AREA NEEDS TO BE MAINTAINED WITH PROPER SIGNS, CANALIZING DEVICES, WARNING LIGHTS, & ARROW DISPLAYS UTILIZED FOR ON THE ROADWAY EQUIPMENT ON THE PAVEMENT OR SHOULDER OF THE ROAD.

ALL CONTROLLED DEPTH, DIRECTIONAL BORE ROADWAY CROSSINGS, REQUIRE A FLAG PERSON FOR TRAFFIC ROUTING AS THE BORE OPERATION ENTERS THE PAVED ROADWAY SHOULDERS, AND CONTINUING ACROSS THE ROAD, TO INSURE PROTECTION FOR THE INDIVIDUAL FOLLOWING THE BORE HEAD.

IF UPON CONSTRUCTION FURTHER TRAFFIC CONTROL IS NECESSARY REFER TO WISCONSIN DEPARTMENT OF TRANSPORTATION'S WORK ZONE SAFETY POCKET GUIDELINES FOR CONSTRUCTION, MAINTENANCE, & UTILITY OPERATIONS. THE CHOSEN CONTRACTOR IS RESPONSIBLE TO CONTACT THE DOT OR GOVERNING AUTHORITY WITH ANY ADDITIONAL TRAFFIC CONTROL PLANS.

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

GENERAL NOTES

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

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

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

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
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

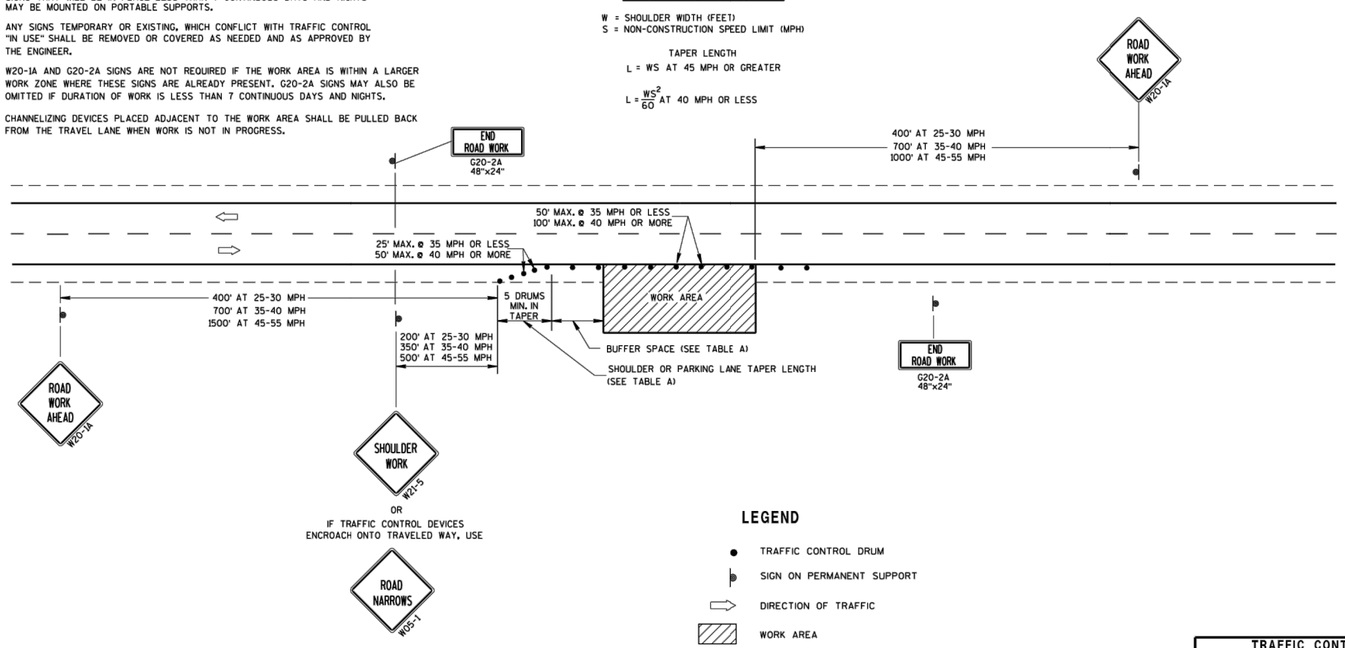
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = ⅓L



LEGEND

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

6

S.D.D. 15 D 28-3

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 14, 2015 — DATE
/S/ Peter Amokobe Atepe — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 28-3

mi-TECH

LEGEND

JOINT POLE
NEW JOINT POLE
POWER POLE
NEW POWER POLE
TELEPHONE POLE
NEW TELEPHONE POLE
EXISTING PEDESTAL
NEW PEDESTAL
ANCHOR
NEW ANCHOR
JOINT ANCHOR
NEW JOINT ANCHOR
FOREIGN ANCHOR
DOWNGUY
NEW DOWNGUY
UTILITY VALVE
MANHOLE
EXISTING FIBER COIL
NEW FIBER COIL
EXISTING HAND HOLE
NEW HAND HOLE
SHRUBS
DECIDUOUS TREE
NEW GROUND
PROPERTY LINE
ROADWAY CENTERLINE
FIBER WARNING SIGN
TRAFFIC LIGHT
HYDRANT
SIGNS
STREET LIGHT
CONIFEROUS TREE

LINETYPES

STRAND PROPOSED
STRAND EXISTING
PROPOSED UNDERGROUND
JOINT U/G WITH POWER
CABLE TV
FIBER
TELEPHONE
CITY CONDUIT
GAS
ELECTRICAL
MMSD
STORM
SANITARY
WATER
STEAM
ROW

PROJECT #1806874

Charter COMMUNICATIONS
3520 DESTINATION DRIVE
APPLETON, WI 54911

N

ADDRESS	LOCATION
STH 15	OUTAGAMIE COUNTY, WI

FIELDED BY: Darrell Gore DATE:
DRAFTED BY: Darrell Gore DATE:
DESIGNED BY: DATE:
ASBUILTS BY: DATE:

Traffic

8/31/2020 11:09:46 AM

THESE TRAFFIC CONTROLS MEASURES WILL BE USED WITHIN THE JOB SKETCH

AS WORK OPERATIONS PROCEED ON THESE PRINTS A "WORK ZONE SAFETY" AREA NEEDS TO BE MAINTAINED WITH PROPER SIGNS, CANALIZING DEVICES, WARNING LIGHTS, & ARROW DISPLAYS UTILIZED FOR ON THE ROADWAY EQUIPMENT ON THE PAVEMENT OR SHOULDER OF THE ROAD.

ALL CONTROLLED DEPTH, DIRECTIONAL BORE ROADWAY CROSSINGS, REQUIRE A FLAG PERSON FOR TRAFFIC ROUTING AS THE BORE OPERATION ENTERS THE PAVED ROADWAY SHOULDERS, AND CONTINUING ACROSS THE ROAD, TO INSURE PROTECTION FOR THE INDIVIDUAL FOLLOWING THE BORE HEAD.

IF UPON CONSTRUCTION FURTHER TRAFFIC CONTROL IS NECESSARY REFER TO WISCONSIN DEPARTMENT OF TRANSPORTATION'S WORK ZONE SAFETY POCKET GUIDELINES FOR CONSTRUCTION, MAINTENANCE, & UTILITY OPERATIONS. THE CHOSEN CONTRACTOR IS RESPONSIBLE TO CONTACT THE DOT OR GOVERNING AUTHORITY WITH ANY ADDITIONAL TRAFFIC CONTROL PLANS.

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

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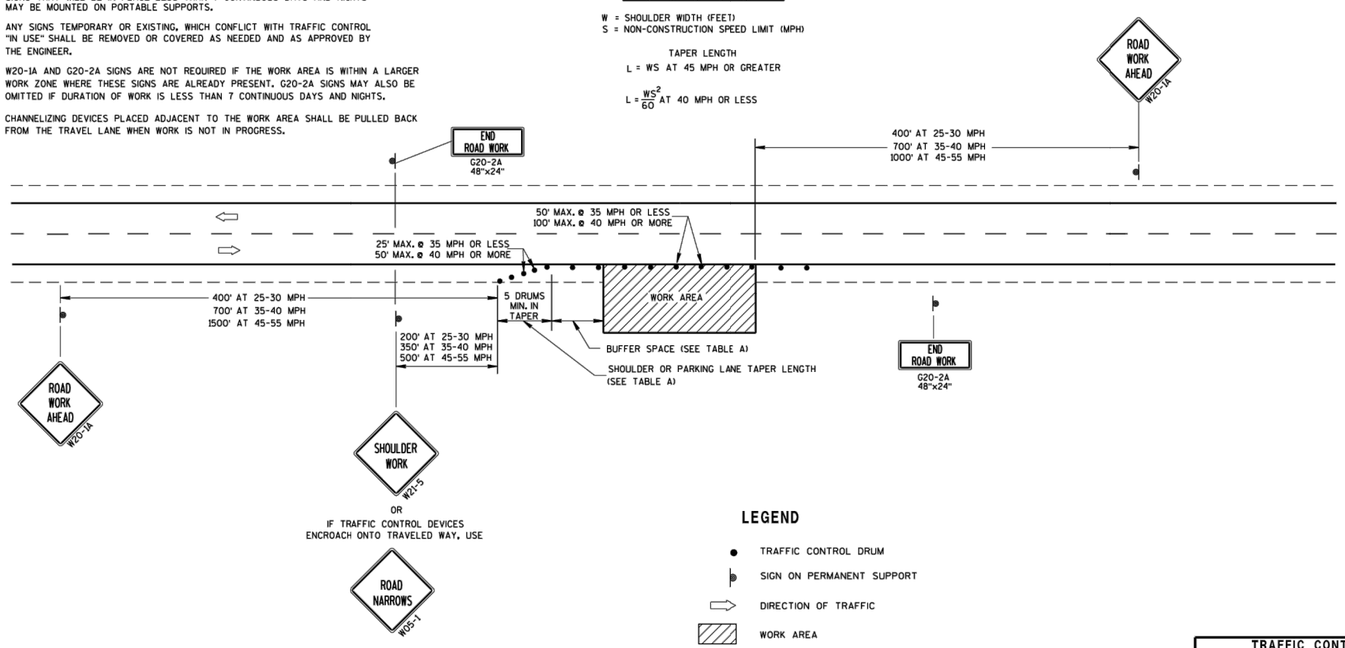

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