PROJECT COMMITMENTS

T.I.P. Project No HO-0002 A,B,C
Installation of Broadband Fiber along US 74
Brunswick, Columbus, Robeson, Scotland, Richmond, Anson, Union, Mecklenburg, Gaston, Cleveland, Rutherford, Polk, Henderson & Buncombe Counties
Federal Aid Project No. 0074233, 0074234 & 0074235
WBS Element 49456.3.2, 49456.3.3 & 49456.3.4

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

NCDOT Construction Staff – Protected Species and Water Quality

To minimize impacts to aquatic federally protected species, NCDOT will either directionally bore under identified stream reaches (ISR) or attach the conduit to the structure over the waterbody. In the case of the directional bores, the bore sites will start at least 50-feet from the edge of each bank. Erosion control measures entailed in the NCDOT "Design Standards for Sensitive Watersheds" will be employed in these areas. For ISRs that will have the conduit attached to the structure, a vegetated buffer will be maintained between the area where the plowing transitions to the attachments to structure and the adjacent top of bank waterbody. Stringent erosion control measures consistent with the above-mentioned design standards will be employed at these sites.

NCDOT Construction Staff - Cultural Resources

No construction activities or staging should occur within any of the NRHP boundaries or potential NRHP eligible tax parcels depicted in the HO-0002A, B & C historic architecture and archaeology screening memos. Impacts within any NRHP boundary shall require consultation with SHPO and FHWA to determine the effects of the impacts to the historic property. Impacts to any potential NRHP eligible tax parcel noted in the screening memos shall require coordination with SHPO and FHWA to determine the need for further evaluation to determine eligibility of the resource. If the parcel is determined eligible for the NRHP, consultation with SHPO and FHWA shall be necessary to determine the effects of the impacts to the historic property.

NCDOT Construction Staff - Cultural Resources

If any previously undocumented historic or archaeological resources are discovered while conducting the authorized work, activities in that area shall be suspended. NCDOT will initiate any required State / Federal coordination after a timely initial assessment. Should the initial resource assessment and agency coordination completed by NCDOT determine that additional NRHP evaluation and/or Section 106 mitigation is necessary, NCDOT shall conduct further evaluation and/or mitigation as appropriate. The Inadvertent or accidental discovery of human remains shall be handled in accordance with North Carolina General Statutes 65 and 70.

NCDOT Environmental Analysis Unit-ECAP

Section 7 protected species surveys are still underway. NCDOT will complete these surveys prior to any ground-disturbing activities in potential species habitats and will coordinate survey results with regulatory agencies for issuance of any permits. *Protected species surveys have been completed and Section 7 has been satisfied.*

COMMITMENTS FROM PERMITTING

NCDOT Construction Staff

To avoid impacts to wetlands and populations of endangered species along the incomplete portion of the Shelby Bypass, the conduit will be bored in areas that have been identified along the corridor.

Identified bridges along US74 in Rutherford and Henderson Counties will be directionally bored to avoid impacts to federally protected bats.

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. **SAW-2020-01845** U.S.G.S. Quad: **Polkton**

Counties: **Buncombe, Rutherford, Cleveland, Gaston, Mecklenburg, Union, Richmond, Anson, Scotland, Robeson, Columbus, and Brunswick**

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: **Philip Harris III**
North Carolina Department of Transportation
Address: **1598 Mail Service Center**
Raleigh NC, 27699
Telephone Number:

Nearest Waterway **Gum Swamp Creek** River Basin **Upper Pee Dee** USGS HUC **03040105**
Coordinates West end: Latitude: **35.5131**, Longitude: **-82.5858;** East end: Latitude: **34.2588** Longitude: **-78.0782**

Location description: **Within the US 74 NCDOT right-of-way, from northwest of the French Broad River in Buncombe County, to I-140 in Brunswick County.**

Description of projects area and activity: **TIP HO-0002; Placement of broadband conduit in highway right-of-way, impacting 0.25 acre of wetlands by plowing (0.113 acre), and open trenching, with clearing, grubbing, and backfilling (0.133 acre), at two sites. NOTE: The proposed conduit would be crossing over three Section 10 navigable rivers (French Broad, Pee Dee, and Lumber) by attachment to existing Section 9 bridges. These crossings are not regulated under Section 10.**

Applicable Law: ☒ Section 404 (Clean Water Act, 33 USC 1344); ☐ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Nationwide Permit Number: **NWP 57 Electric Utility Line and Telecommunications Activities**
SEE ATTACHED NWP GENERAL AND REGIONAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated December 16, 2021. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Eric Alsmeyer at (919) 554-4884 X 23 or Eric.C.Alsmeyer@usace.army.mil**.

Corps Regulatory Official: Monte Matthews Date: 2022.01.14 10:14:14 -05'00' Date: **January 14, 2022**

Expiration Date of Verification: **March 14, 2026**
The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at https://regulatory.ops.usace.army.mil/customer-service-survey/.

Action ID Number: SAW-2020-01845
Counties: Buncombe, Rutherford, Cleveland, Gaston, Mecklenburg, Union, Richmond, Anson, Scotland, Robeson, Columbus, and Brunswick

Permittee: Philip Harris III
North Carolina Department of Transportation

Project Name: NCDOT HO-0002 US74 Wilmington to Asheville Broadband Fiber Conduit

Date Verification Issued: January 14, 2022

Project Manager: Eric Alsmeyer

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Eric Alsmeyer
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587
919.554.4884, Ext. 23

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

_____ _____

Signature of Permittee **Date**

Nationwide Permit 57
Electric Utility Line and Telecommunications Activities

Effective Date: March 15, 2021 / Expiration Date: March 15, 2026
Authorities: Sections 10 and 404

Activities required for the construction, maintenance, repair, and removal of electric utility lines, telecommunication lines, and associated facilities in waters of the United States, provided the activity does not result in the loss of greater than 1/2-acre of waters of the United States for each single and complete project.

Electric utility lines and telecommunication lines: This NWP authorizes discharges of dredged or fill material into waters of the United States and structures or work in navigable waters for crossings of those waters associated with the construction, maintenance, or repair of electric utility lines and telecommunication lines. There must be no change in pre-construction contours of waters of the United States. An "electric utility line and telecommunication line" is defined as any cable, line, fiber optic line, or wire for the transmission for any purpose of electrical energy, telephone, and telegraph messages, and internet, radio, and television communication.

Material resulting from trench excavation may be temporarily sidecast into waters of the United States for no more than three months, provided the material is not placed in such a manner that it is dispersed by currents or other forces. The district engineer may extend the period of temporary side casting for no more than a total of 180 days, where appropriate. In wetlands, the top 6 to 12 inches of the trench should normally be backfilled with topsoil from the trench. The trench cannot be constructed or backfilled in such a manner as to drain waters of the United States (e.g., backfilling with extensive gravel layers, creating a french drain effect). Any exposed slopes and stream banks must be stabilized immediately upon completion of the electric utility line or telecommunication line crossing of each waterbody.

Electric utility line and telecommunications substations: This NWP authorizes the construction, maintenance, or expansion of substation facilities associated with an electric utility line or telecommunication line in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not result in the loss of greater than 1/2-acre of waters of the United States. This NWP does not authorize discharges of dredged or fill material into non-tidal wetlands adjacent to tidal waters of the United States to construct, maintain, or expand substation facilities.

Foundations for overhead electric utility line or telecommunication line towers, poles, and anchors: This NWP authorizes the construction or maintenance of foundations for overhead electric utility line or telecommunication line towers, poles, and anchors in all waters of the United States, provided the foundations are the minimum size necessary and separate footings for each tower leg (rather than a larger single pad) are used where feasible.

Access roads: This NWP authorizes the construction of access roads for the construction and maintenance of electric utility lines or telecommunication lines, including overhead lines and substations, in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not cause the loss of greater than 1/2-acre of non-tidal waters of the United States. This NWP does not authorize discharges of dredged or fill material into non-tidal wetlands adjacent to tidal waters for access roads. Access roads must be the minimum width necessary (see Note 2, below). Access roads must be constructed so that the length of the road minimizes any adverse effects on waters of the United States and must be as near as possible to pre-construction contours and elevations (e.g., at grade corduroy roads or geotextile/gravel roads). Access roads constructed above pre-construction contours and elevations in waters of the United States must be properly bridged or culverted to maintain surface flows.

This NWP may authorize electric utility lines or telecommunication lines in or affecting navigable waters of the United States even if there is no associated discharge of dredged or fill material (see 33 CFR part 322). Electric utility lines or telecommunication lines constructed over section 10 waters and electric utility lines or telecommunication lines that are routed in or under section 10 waters without a discharge of dredged or fill material require a section 10 permit.

This NWP authorizes, to the extent that Department of the Army authorization is required, temporary structures, fills, and work necessary for the remediation of inadvertent returns of drilling fluids to waters of the United States through sub-soil fissures or fractures that might occur during horizontal directional drilling activities conducted for the purpose of installing or replacing electric utility lines or telecommunication lines. These remediation activities must be done as soon as practicable, to restore the affected waterbody. District engineers may add special conditions to this NWP to require a remediation plan for addressing inadvertent returns of drilling fluids to waters of the United States during horizontal directional drilling activities conducted for the purpose of installing or replacing electric utility lines or telecommunication lines.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the electric utility line activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges of dredged or fill material, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) a section 10 permit is required; or (2)

the discharge will result in the loss of greater than 1/10-acre of waters of the United States. (See general condition 32.) (Authorities: Sections 10 and 404)

Note 1: Where the electric utility line is constructed, installed, or maintained in navigable waters of the United States (i.e., section 10 waters) within the coastal United States, the Great Lakes, and United States territories, a copy of the NWP verification will be sent by the Corps to the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), for charting the electric utility line to protect navigation.

Note 2: For electric utility line or telecommunications activities crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Electric utility line and telecommunications activities must comply with 33 CFR 330.6(d).

Note 3: Electric utility lines or telecommunication lines consisting of aerial electric power transmission lines crossing navigable waters of the United States (which are defined at 33 CFR part 329) must comply with the applicable minimum clearances specified in 33 CFR 322.5(i).

Note 4: Access roads used for both construction and maintenance may be authorized, provided they meet the terms and conditions of this NWP. Access roads used solely for construction of the electric utility line or telecommunication line must be removed upon completion of the work, in accordance with the requirements for temporary fills.

Note 5: This NWP authorizes electric utility line and telecommunication line maintenance and repair activities that do not qualify for the Clean Water Act section 404(f) exemption for maintenance of currently serviceable fills or fill structures.

Note 6: For overhead electric utility lines and telecommunication lines authorized by this NWP, a copy of the PCN and NWP verification will be provided by the Corps to the Department of Defense Siting Clearinghouse, which will evaluate potential effects on military activities.

Note 7: For activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b)(4) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, “District Engineer’s Decision.” The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).

GENERAL CONDITIONS

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. **Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his or her authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. **Shellfish Beds.** No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. **Suitable Material.** No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. **Water Supply Intakes.** No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. **Adverse Effects From Impoundments.** If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. **Management of Water Flows.** To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. **Fills Within 100-Year Floodplains.** The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. **Equipment.** Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. **Soil Erosion and Sediment Controls.** Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. **Removal of Temporary Structures and Fills.** Temporary structures must be removed, to the maximum extent practicable, after their use has been discontinued.

Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. **Proper Maintenance.** Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. **Single and Complete Project.** The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. **Wild and Scenic Rivers.** (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. Permittees shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: http://www.rivers.gov/.

17. **Tribal Rights.** No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. **Endangered Species.** (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify designated critical habitat or critical habitat proposed for such designation. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the consequences of the proposed activity on listed species or critical habitat has been completed. See 50 CFR

402.02 for the definition of “effects of the action” for the purposes of ESA section 7 consultation, as well as 50 CFR 402.17, which provides further explanation under ESA section 7 regarding “activities that are reasonably certain to occur” and “consequences caused by the proposed action.”

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA (see 33 CFR 330.4(f)(1)). If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat or critical habitat proposed for such designation, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation), the pre-construction notification must include the name(s) of the endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or that utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. For activities where the non-Federal applicant has identified listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have “no effect” on listed species (or species proposed for listing or designated critical habitat (or critical habitat proposed for such designation), or until ESA section 7 consultation or conference has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation or conference with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs.

(e) Authorization of an activity by an NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take”

provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.nmfs.noaa.gov/pr/species/esa/ respectively.

19. **Migratory Birds and Bald and Golden Eagles.** The permittee is responsible for ensuring that an action authorized by an NWP complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine what measures, if any, are necessary or appropriate to reduce adverse effects to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. **Historic Properties.** (a) No activity is authorized under any NWP which may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act (see 33 CFR

330.4(g)(1)). If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts commensurate with potential impacts, which may include background research, consultation, oral history interviews, sample field investigation, and/or field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect.

(d) Where the non-Federal applicant has identified historic properties on which the proposed NWP activity might have the potential to cause effects and has so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106

consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. **Discovery of Previously Unknown Remains and Artifacts.** Permittees that discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by an NWP, they must immediately notify the district engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. **Designated Critical Resource Waters.** Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed by permittees in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only

after she or he determines that the impacts to the critical resource waters will be no more than minimal.

23. **Mitigation.** The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) Compensatory mitigation at a minimum one-for-one ratio will be required for all losses of stream bed that exceed 3/100-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. This compensatory mitigation requirement may be satisfied through the restoration or enhancement of riparian areas next to streams in accordance with paragraph (e) of this general condition. For losses of stream bed of 3/100-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. If restoring riparian areas involves planting vegetation, only native species should be planted. The width of the

required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f).)

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). If permittee-responsible mitigation is the proposed option, and the proposed compensatory mitigation site is located on land in which another federal agency holds an easement, the district engineer will coordinate with that federal agency

to determine if proposed compensatory mitigation project is compatible with the terms of the easement.

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan needs to address only the baseline conditions at the impact site and the number of credits to be provided (see 33 CFR 332.4(c)(1)(ii)).

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. **Safety of Impoundment Structures.** To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state or federal, dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. **Water Quality.** (a) Where the certifying authority (state, authorized tribe, or EPA, as appropriate) has not previously certified compliance of an NWP with CWA section 401, a CWA section 401 water quality certification for the proposed discharge must be obtained or waived (see 33 CFR 330.4(c)). If the permittee cannot comply with all of the conditions of a water quality certification previously issued by certifying authority for the issuance of the NWP, then the permittee must obtain a water quality certification or waiver for the proposed discharge in order for the activity to be authorized by an NWP.

(b) If the NWP activity requires pre-construction notification and the certifying authority has not previously certified compliance of an NWP with CWA section 401, the proposed discharge is not authorized by an NWP until water quality certification is obtained or waived. If the certifying authority issues a water quality certification for the proposed discharge, the permittee must submit a copy of the certification to the district engineer. The discharge is not authorized by an NWP until the district engineer has notified the permittee that the water quality certification requirement has been satisfied by the issuance of a water quality certification or a waiver.

(c) The district engineer or certifying authority may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. **Coastal Zone Management.** In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). If the permittee cannot comply with all of the conditions of a coastal zone management consistency concurrence previously issued by the state, then the permittee must obtain an individual coastal zone management consistency concurrence or presumption of concurrence in order for the activity to be authorized by an NWP. The district engineer or a state may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. **Regional and Case-By-Case Conditions.** The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its CWA section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. **Use of Multiple Nationwide Permits.** The use of more than one NWP for a single and complete project is authorized, subject to the following restrictions:

(a) If only one of the NWPs used to authorize the single and complete project has a specified acreage limit, the acreage loss of waters of the United States cannot exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank

stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

(b) If one or more of the NWPs used to authorize the single and complete project has specified acreage limits, the acreage loss of waters of the United States authorized by those NWPs cannot exceed their respective specified acreage limits. For example, if a commercial development is constructed under NWP 39, and the single and complete project includes the filling of an upland ditch authorized by NWP 46, the maximum acreage loss of waters of the United States for the commercial development under NWP 39 cannot exceed 1/2-acre, and the total acreage loss of waters of United States due to the NWP 39 and 46 activities cannot exceed 1 acre.

29. **Transfer of Nationwide Permit Verifications.** If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

_____
(Transferee)

_____
(Date)

30. **Compliance Certification.** Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. **Activities Affecting Structures or Works Built by the United States.** If an NWP activity also requires review by, or permission from, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. **Pre-Construction Notification.** (a) *Timing*. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee

cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) *Contents of Pre-Construction Notification*: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) (i) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures.

(ii) For linear projects where one or more single and complete crossings require pre-construction notification, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters (including those single and complete crossings authorized by an NWP but do not require PCNs). This information will be used by the district engineer to evaluate the cumulative adverse environmental effects of the proposed linear project, and does not change those non-PCN NWP activities into NWP PCNs.

(iii) Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial and intermittent streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-federal permittees, if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat (or critical habitat proposed for such designation), the PCN must include the name(s) of those endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible

inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an NWP activity that requires permission from, or review by, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from, or review by, the Corps office having jurisdiction over that USACE project.

(c) *Form of Pre-Construction Notification*: The nationwide permit pre-construction notification form (Form ENG 6082) should be used for NWP PCNs. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) *Agency Coordination*: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iii) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure that the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were

considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the single and complete crossings of waters of the United States that require PCNs to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings of waters of the United States authorized by an NWP. If an applicant requests a waiver of an applicable limit, as provided for in NWPs 13, 36, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects.

2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by an NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource

functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters. The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure that the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is

required to comply with general conditions 18, 20, and/or 31), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

Further Information

1. District engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

Definitions

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term “discharge” means any discharge of dredged or fill material into waters of the United States.

Ecological reference: A model used to plan and design an aquatic habitat and riparian area restoration, enhancement, or establishment activity under NWP 27. An ecological reference may be based on the structure, functions, and dynamics of an aquatic habitat type or a riparian area type that currently exists in the region where the proposed NWP 27 activity is located. Alternatively, an ecological reference may be based on a conceptual model for the aquatic habitat type or riparian area type to be restored, enhanced, or established as a result of the proposed NWP 27 activity. An ecological reference takes into account the range of variation of the aquatic habitat type or riparian area type in the region.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

High Tide Line: The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps Regulatory Program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. The loss of stream bed includes the acres of stream bed that are permanently adversely affected by filling or excavation because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters or wetlands for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities that do not require Department of the Army authorization, such as activities eligible for exemptions under section 404(f) of the Clean Water Act, are not considered when calculating the loss of waters of the United States.

Navigable waters: Waters subject to section 10 of the Rivers and Harbors Act of 1899. These waters are defined at 33 CFR part 329.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of flowing or standing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of “open waters” include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Perennial stream: A perennial stream has surface water flowing continuously year-round during a typical year.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands next to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term "single and complete project" is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of "independent utility"). Single and complete non-linear projects may not be "piecemealed" to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized jurisdictional stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a jurisdictional wetland that is inundated by tidal waters. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line.

Tribal lands: Any lands title to which is either: 1) held in trust by the United States for the benefit of any Indian tribe or individual; or 2) held by any Indian tribe or individual subject to restrictions by the United States against alienation.

Tribal rights: Those rights legally accruing to a tribe or tribes by virtue of inherent sovereign authority, unextinguished aboriginal title, treaty, statute, judicial decisions, executive order or agreement, and that give rise to legally enforceable remedies.

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWPs, a waterbody is a “water of the United States.” If a wetland is adjacent to a waterbody determined to be a water of the United States, that waterbody and any adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)).

REGIONAL CONDITIONS:

The following Regional Conditions have been approved by the Wilmington District for the Nationwide Permits (NWPs) published in the January 13, 2021, *Federal Register* (86 FR 2744) announcing the reissuance of 12 existing (NWPs) and four new NWPs, as well as the reissuance of NWP general conditions and definitions with some modifications.

A. EXCLUDED WATERS AND/OR AREAS

The Corps has identified waters that will be excluded from the use of all NWP’s during certain timeframes. These waters are:

1. **Anadromous Fish Spawning Areas.** Work in waters of the U.S. designated by either the North Carolina Division of Marine Fisheries (NCDMF) or the North Carolina

Wildlife Resources Commission (NCWRC) as anadromous fish spawning areas are prohibited from February 15th through June 30th, without prior written approval from the Corps and the appropriate wildlife agencies (NCDMF, NCWRC and/or the National Marine Fisheries Service (NMFS)). Work in waters of the U.S. designated by NCWRC as primary nursery areas in inland waters are prohibited from February 15th through September 30th, without prior written approval from the Corps and the appropriate wildlife agencies. Work in waters of the U.S. designated by NCDMF as primary nursery areas shall be coordinated with NCDMF prior to being authorized by this NWP. Coordination with NCDMF may result in a required construction moratorium during periods of significant biological productivity or critical life stages.

2. **Trout Waters Moratorium.** Work in waters of the U.S. in the designated trout watersheds of North Carolina are prohibited from October 15th through April 15th without prior written approval from the NCWRC, or from the Eastern Band of Cherokee Indians (EBCI) Fisheries and Wildlife Management (FWM) office if the project is located on EBCI trust land. (See Section C.3. above for information on the designated trout watersheds).

3. **Sturgeon Spawning Areas.** No in-water work shall be conducted in waters of the U.S. designated by the National Marine Fisheries Service as Atlantic sturgeon critical habitat from February 1st through June 30th. No in-water work shall be conducted in waters of the U.S. in the Roanoke River designated as Atlantic sturgeon critical habitat from February 1st through June 30th, and August 1st through October 31st, without prior written approval from NMFS.

4. **Submerged Aquatic Vegetation.** Impacts to Submerged Aquatic Vegetation (SAV) are not authorized by any NWP, except NWP 48, NWP 55 and NWP 56, unless Essential Fish Habitat (EFH) consultation has been completed pursuant to the Magnuson-Stevens Fisheries Conservation and Management Act (Magnuson-Stevens Act). Permittees shall submit a PCN (See NWP General Condition 32) to the District Engineer prior to commencing the activity if the project would affect SAV. The permittee may not begin work until notified by the Corps that the requirements of the Magnuson-Stevens Act have been satisfied and that the activity is verified.

B. REGIONAL CONDITIONS APPLICABLE TO ALL NWP's

1. **Critical Habitat in Western NC.** For proposed activities within waters of the U.S. that require a Pre-Construction Notification (PCN) and are located in the thirteen counties listed below, permittees must provide a copy of the PCN to the U.S. Fish and Wildlife Service (USFWS), 160 Zillicoa Street, Asheville, North Carolina 28801 and the Corps Asheville Regulatory Field Office. Please see General Condition 18 for specific PCN requirements related to the Endangered Species Act and the below website for information on the location of designated critical habitat.

Counties with tributaries that drain to designated critical habitat that require notification to the Asheville U.S. Fish and Wildlife Service: Avery, Cherokee, Graham, Haywood,

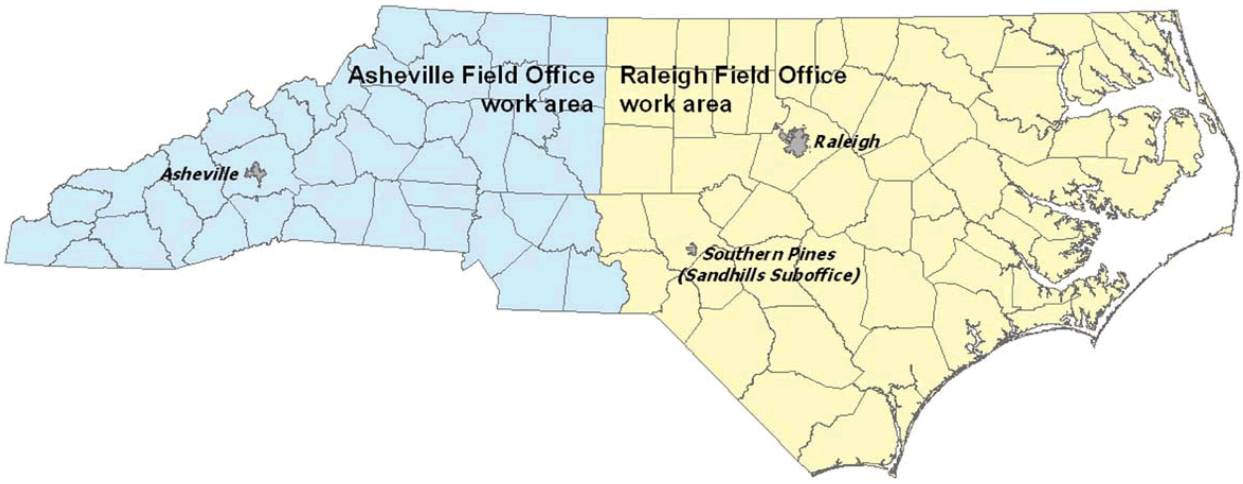
Henderson, Jackson, Macon, Mecklenburg, Mitchell, Swain, Transylvania, Union and Yancey.

Website and office addresses for Endangered Species Act Information:

The Wilmington District has developed the following website for permittees which provides guidelines on how to review linked websites and maps in order to fulfill NWP General Condition 18 (Endangered Species) requirements: http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram/AgencyCoordination/ESA.aspx.

Permittees who do not have internet access may contact the appropriate U.S. Fish and Wildlife Service offices listed below or Corps at (910) 251-4850.

Below is a map of the USFWS Field Office Boundaries:



Asheville U.S. Fish and Wildlife Service Office counties: All counties west of and including Anson, Stanly, Davidson, Forsythe and Stokes Counties.

U.S. Fish and Wildlife Service
Asheville Field Office
160 Zillicoa Street
Asheville, NC 28801
Telephone: (828) 258-3939

Raleigh U.S. Fish and Wildlife Service Office counties: All counties east of and including Richmond, Montgomery, Randolph, Guilford, and Rockingham Counties.

U.S. Fish and Wildlife Service
Raleigh Field Office
Post Office Box 33726
Raleigh, NC 27636-3726

Telephone: (919) 856-4520

2. **Special Designation Waters.** Prior to the use of any NWP that involves a discharge of dredged or fill material in any of the following identified waters and/or adjacent wetlands in North Carolina, permittees shall submit a PCN to the District Engineer prior to commencing the activity (see General Condition 32). The North Carolina waters and wetlands that require additional PCN requirements are:

"Primary Nursery Areas" (PNA), including inland PNA, as designated by the North Carolina Marine Fisheries Commission and/or the North Carolina Wildlife Resources Commission. The definition of and designated PNA waters can be found in the North Carolina State Administrative Code at Title 15A, Subchapters 3R and 10C (15A NCAC 03R .0103; 15A NCAC 10C .0502; and 15A NCAC 10C .0503) and at the following web pages:

- http://reports.oah.state.nc.us/ncac/title%2015a%20-%20environmental%20quality/chapter%2003%20-%20marine%20fisheries/subchapter%20r/15a%20ncac%2003r%20.0103.pdf

- http://reports.oah.state.nc.us/ncac/title%2015a%20-%20environmental%20quality/chapter%2010%20-%20wildlife%20resources%20and%20water%20safety/subchapter%20c/15a%20ncac%2010c%20.0502.pdf

- http://reports.oah.state.nc.us/ncac/title%2015a%20-%20environmental%20quality/chapter%2010%20-%20wildlife%20resources%20and%20water%20safety/subchapter%20c/15a%20ncac%2010c%20.0503.pdf

3. **Trout Waters.** Prior to any discharge of dredge or fill material into streams, waterbodies or wetlands within the 294 designated trout watersheds of North Carolina, the permittee shall submit a PCN (see General Condition 32) to the District Engineer prior to commencing the activity. The permittee shall also provide a copy of the PCN to the appropriate NCWRC office, or to the EBCI FWM Office (if the project is located on EBCI trust land), to facilitate the determination of any potential impacts to designated Trout Waters.

NCWRC and NC Trout Watersheds:

NCWRC Contact**	**Counties that are entirely within Trout Watersheds***	**Counties that are partially within Trout Watersheds***
Mountain Coordinator 645 Fish Hatchery Rd., Building B Marion, NC 28752 828-803-6054 For NCDOT Projects: NCDOT Coordinator 12275 Swift Rd. Oakboro, NC 28129 704-984-1070	Alleghany Ashe Avery Graham Haywood Jackson Macon Swain Transylvania Watauga	Burke Buncombe Caldwell Cherokee Clay Henderson Madison McDowell Mitchell Polk Rutherford Surry Wilkes Yancey
EBCI Contact**	**Counties that are within Trout Watersheds***	
Office of Natural Resources P.O. Box 1747, Cherokee, NC 28719 (828) 359-6113	Qualla Boundary and non-contiguous tracts of trust land located in portions of Swain, Jackson, Haywood, Graham and Cherokee Counties.	

*NOTE: To determine PCN requirements, contact the Corps Asheville Regulatory Field Office at (828) 271-7980 or view maps showing trout watersheds in each County at the following webpage: http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout/.

**If a project is located on EBCI trust land, submit the PCN in accordance with Regional Condition C.16. Contact the Corps Asheville Regulatory Field Office at (828) 271-7980 with questions.

4. **Western NC Waters and Corridors.** The permittee shall submit a PCN (see General Condition 32) to the District Engineer prior to commencing the activity in waters of the U.S. if the activity will occur within any of the following identified waters in western North Carolina, within 0.5 mile on either side of these waters, or within 0.75 mile of the Little Tennessee River, as measured from the top of the bank of the respective water (i.e., river, stream, or creek):

Brasstown Creek
Burningtown Creek
Cane River
Caney Fork
Cartoogechaye Creek
Chattooga River
Cheoah River
Cowee Creek
Cullasaja River
Deep Creek
Ellijay Creek
French Broad River
Garden Creek
Hiwassee River
Hominy Creek
Iotla Creek
Little Tennessee River (within the river or within 0.75 mile on either side of this river)
Nantahala River
Nolichucky River
North Fork French Broad River
North Toe River
Nottley River
Oconaluftee River (portion not located on trust/EBCI land)
Peachtree Creek
Shooting Creek
Snowbird Creek
South Toe River
Stecoah Creek
Swannanoa River
Sweetwater Creek
Tuckasegee River (also spelled Tuckaseegee or Tuckaseigee)
Valley River
Watauga Creek
Watauga River
Wayah Creek

West Fork French Broad River

To determine PCN requirements, contact the Corps Asheville Regulatory Field Office at (828) 271-7980 or view maps for all corridors at the following webpage: http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Designated-Special-Waters.aspx .

5. **Limitation of Loss of Stream Bed.** NWPs may not be used for activities that may result in the loss of more than 0.05 acres of stream bed, except for NWP 32.

6. **Pre-Construction Notification for Loss of Stream Bed Exceeding 0.02 acres.** The permittee shall submit a PCN to the District Engineer prior to commencing the activity (see General Condition 32) prior to the use of any NWP for any activity that results in the loss of more than 0.02 acres of stream bed. This applies to NWPs that do not have PCN requirements as well as those NWPs that require a PCN.

7. **Mitigation for Loss of Stream Bed.** For any NWP that results in a loss of more than 0.02 acres of stream bed, the permittee shall provide a mitigation proposal to compensate for more than minimal individual and cumulative adverse impacts to the aquatic environment, unless the District Engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal. For stream bed losses of 0.02 acres or less that require a PCN, the District Engineer may determine, on a case-by-case basis, that compensatory mitigation is required to ensure that the activity results in minimal adverse effect on the aquatic environment.

8**. Riprap.** For all NWPs that allow for the use of riprap material for bank stabilization, the following conditions shall be applied:

a. Filter cloth must be placed underneath the riprap as an additional requirement of its use in North Carolina waters. The placement of filter fabric is not required if the riprap will be pushed or “keyed” into the bank of the waterbody. A waiver from the specifications in this Regional Condition must be requested in writing.

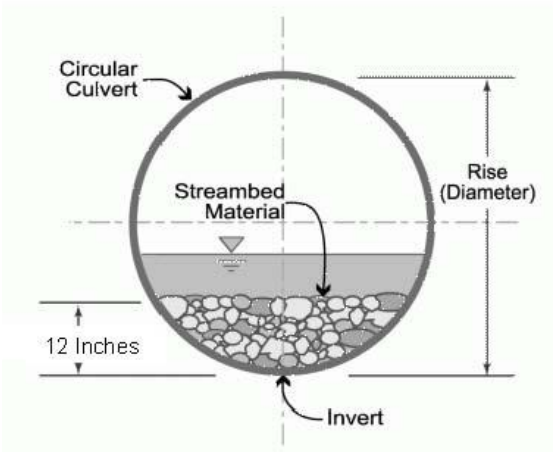
b. Riprap shall be placed only on the stream banks, or, if it is necessary to be placed in the stream bed, the finished top elevation of the riprap should not exceed that of the original stream bed.

9**. Culvert Placement.** For all NWPs that allow for culvert placement, the following conditions shall be applied:

a. For all NWPs that involve the construction/installation of culverts, measures shall be included in the construction/installation that will promote the safe passage of fish and other aquatic organisms

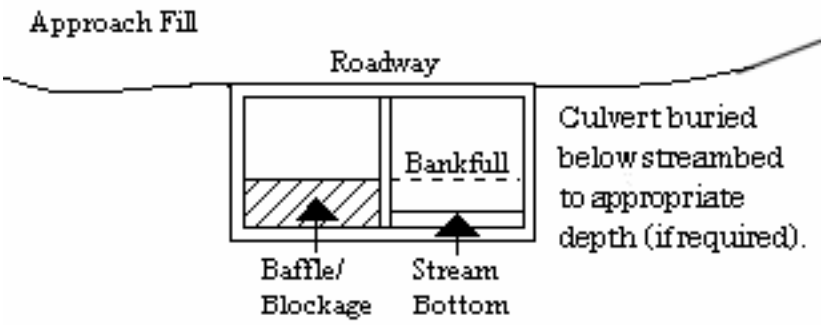
Placement of culverts and other structures in streams shall be below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20% of the culvert diameter for culverts having a diameter less than or equal to 48 inches. If the culvert outlet is submerged within a pool or scour hole and designed to provide for aquatic passage, then culvert burial into the streambed is not required.
Culvert burial is not required for structures less than 72 inch diameter/width, where the slope of the culvert will be greater than 2.5%, provided that all alternative options for flattening the slope have been investigated and aquatic life movement/connectivity has been provided when possible (e.g., rock ladders, cross vanes, sills, baffles etc.). Culvert burial is not required when bedrock is present in culvert locations.

Installation of culverts in wetlands shall ensure continuity of water movement and be designed to adequately accommodate high water or flood conditions. When roadways, causeways, or other fill projects are constructed across FEMA-designated floodways or wetlands, openings such as culverts or bridges shall be provided to maintain the natural hydrology of the system as well as prevent constriction of the floodway that may result in destabilization of streams or wetlands.



A waiver from the depth specifications in this condition may be requested, in writing, by the permittee and issued by the Corp. This waiver request must be specific as to the reasons(s) for the request. The waiver will be issued if it can be demonstrated that the proposed design would result in less impacts to the aquatic environment. Culverts placed across wetland fills purely for the purposes of equalizing surface water do not have to be buried, but the culverts must be of adequate size and/or number to ensure unrestricted transmission of water.

b**.** Bank-full flows (or less) shall be accommodated through maintenance of the existing bank-full channel cross sectional area. Additional culverts or culvert barrels at such crossings shall be allowed only to receive bank-full flows.



c. Culverts shall be designed and installed in such a manner that the original stream profiles are not altered and allow for aquatic life movement during low flows. The dimension, pattern, and profile of the stream above and below a pipe or culvert shall not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. The width, height, and gradient of a proposed culvert shall be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. If the width of the culvert is wider than the stream channel, the culvert shall include multiple boxes/pipes, baffles, benches and/or sills to maintain the natural width of the stream channel. If multiple culverts/pipes/barrels are used, low flows shall be accommodated in one culvert/pipe and additional culverts/pipes shall be installed such that they receive only flows above bankfull.

10. **Utility Lines.** For all NWPs that allow for the construction and installation of utility lines, the following conditions shall be applied:

a. Utility lines consisting of aerial electric power transmission lines crossing navigable waters of the U.S. (which are defined at 33 CFR part 329) must comply with the applicable minimum clearances specified in 33 CFR 322.5(i).

b. The work area authorized by this permit, including temporary and/or permanent fills, will be minimized to the greatest extent practicable. Justification for work corridors exceeding forty (40) feet in width is required and will be based on pipeline diameter and length, size of equipment required to construct the utility line, and other construction information deemed necessary to support the request. The permittee is required to provide this information to the Corps with the initial PCN package.

c. A plan to restore and re-vegetate wetland areas cleared for construction must be submitted with the required PCN. Cleared wetland areas shall be re-vegetated, as appropriate, with species of canopy, shrub, and herbaceous species. The permittee shall not use fescue grass or any other species identified as invasive or exotic species by the NC Native Plant Society (NCNPS): https://ncwildflower.org/invasive-exotic-species-list/.

d. Any permanently maintained corridor along the utility right of way within forested wetlands shall be considered a loss of aquatic function. A compensatory mitigation plan will be required for all such impacts associated with the requested activity if the activity requires a PCN and the cumulative total of permanent conversion of forested wetlands

exceeds 0.1 acres, unless the District Engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal.

Where permanently maintained corridor within forested wetlands is 0.1 acres or less, the District Engineer may determine, on a case-by-case basis, that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment.

e. When directional boring or horizontal directional drilling (HDD) under waters of the U.S., including wetlands, permittees shall closely monitor the project for hydraulic fracturing or "fracking." Any discharge from hydraulic fracturing or "fracking" into waters of the U.S., including wetlands, shall be reported to the appropriate Corps Regulatory Field Office within 48 hours. Restoration and/or compensatory mitigation may be required as a result of any unintended discharges.

11. **Temporary Access Fills.** The permittee shall submit a PCN to the District Engineer prior to commencing the activity if the activity will involve the discharge of dredged or fill material into more than 0.1 acres of wetlands or 0.02 acres of stream channel for the construction of temporary access fills and/or temporary road crossings. The PCN must include a restoration plan that thoroughly describes how all temporary fills will be removed, how pre-project conditions will be restored, and include a timetable for all restoration activities.

12. **Federal Navigation Channel Setbacks.** Authorized structures and fills located in or adjacent to Federally authorized waterways must be constructed in accordance with the latest setback criteria established by the Wilmington District Engineer. You may review the setback policy at http://www.saw.usace.army.mil/Missions/Navigation/Setbacks.aspx. This general permit does not authorize the construction of hardened or permanently fixed structures within the Federally Authorized Channel Setback, unless the activity is approved by the Corps. The permittee shall submit a PCN (see General Condition 32) to the District Engineer to obtain a written verification prior to the construction of any structures or fills within the Federally Authorized Channel Setback.

13. **Northern Long-eared Bat – Endangered Species Act Compliance**

The Wilmington District, U.S. Army Corps of Engineers has consulted with the United States Fish and Wildlife Service (USFWS) in regard to the threatened Northern long-eared bat (NLEB) (*Myotis septentrionalis*) and Standard Local Operating Procedures for Endangered Species (SLOPES) have been approved by the Corps and the USFWS. This condition concerns effects to the NLEB only and does not address effects to other federally listed species and/or federally designated critical habitat.

A. Procedures when the Corps is the lead federal* agency for a project:

The permittee must comply with (1) and (2) below when:

• the project is located in the western 41 counties of North Carolina, to include non-federal aid North Carolina Department of Transportation (NCDOT) projects, OR;
• the project is located in the 59 eastern counties of North Carolina and is a non-NCDOT project.

*Generally, if a project is located on private property or on non-federal land, and the project is not being funded by a federal entity, the Corps will be the lead federal agency due to the requirement to obtain Department of the Army authorization to impact waters of the U.S. If the project is located on federal land, contact the Corps to determine the lead federal agency.

(1) A permittee using an NWP must check to see if their project is located in the range of the NLEB by using the following website: http://www.fws.gov/midwest/endangered/mammals/nleb/pdf/WNSZone.pdf. If the project is within the range of the NLEB, or if the project includes percussive activities (e.g., blasting, pile driving, etc.), the permittee is then required to check the appropriate website in the paragraph below to discover if their project:

• is located in a 12-digit Hydrologic Unit Code area ("red HUC" - shown as red areas on the map), AND/OR;
• involves percussive activities within 0.25 mile of a red HUC.

Red HUC maps - for the western 41 counties in NC (covered by the Asheville Ecological Services Field Office), check the project location against the electronic maps found at: http://www.fws.gov/asheville/htmls/project_review/NLEB_in_WNC.html. For the eastern 59 counties in NC (covered by the Raleigh Ecological Services Field Office), check the project location against the electronic maps found at: https://www.fws.gov/raleigh/NLEB_RFO.html.

(2) A permittee must submit a PCN to the District Engineer, and receive written verification from the District Engineer, prior to commencing the activity, if the activity will involve any of the following:

• tree clearing/removal and/or, construction/installation of wind turbines in a red HUC, AND/OR;
• bridge removal or maintenance, unless the bridge has been inspected and there is no evidence of bat use, (applies anywhere in the range of the NLEB), AND/OR:
• percussive activities in a red HUC, or within 0.25 mile of a red HUC.

The permittee may proceed with the activity without submitting a PCN to either the Corps or the USFWS, provided the activity complies with all applicable NWP terms and general and regional conditions, if the permittee's review under A.(1) and A.(2) above shows that the project is:

- located outside of a red HUC (and there are no percussive activities), and the activity will NOT include bridge removal or maintenance, unless the bridge has been inspected and there is no evidence of bat use, OR;
- located outside of a red HUC and there are percussive activities, but the percussive activities will not occur within 0.25-mile of a red HUC boundary, and the activity will NOT include bridge removal or maintenance, unless the bridge has been inspected and there is no evidence of bat use, OR;
- located in a red HUC, but the activity will NOT include tree clearing/removal; construction/installation of wind turbines; bridge removal or maintenance, unless the bridge has been inspected and there is no evidence of bat use, and/or; any percussive activities.

B. Procedures when the USACE is not the lead federal agency:

For projects where another federal agency is the lead federal agency - if that other federal agency has completed project-specific ESA Section 7(a)(2) consultation for the NLEB, and has (1) determined that the project would not cause prohibited incidental take of the NLEB, and (2) completed coordination/consultation that is required by the USFWS (per the directions on the respective USFWS office's website), that project may proceed without PCN to either the USACE or the USFWS, provided all General and Regional Permit Conditions are met.

The NLEB SLOPES can be viewed on the USACE website at: http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/ESA/. Permittees who do not have internet access may contact the USACE at (910) 251- 4633.

14. **West Indian Manatee Protection.** In order to protect the endangered West Indian manatee (*Trichechus manatus*) the Permittee shall implement the USFWS' Manatee Guidelines, and strictly adhere to all requirements therein. The guidelines can be found at https://www.fws.gov/raleigh/pdfs/ManateeGuidelines2017.pdf.

15. **ESA Programmatic Biological Opinions.** The Wilmington District, USFWS, NCDOT, and the FHWA have conducted programmatic Section 7(a)(2) consultation for a number of federally listed species and designated critical habitat (DCH), and programmatic consultation concerning other federally listed species and/or DCH may occur in the future. The result of completed programmatic consultation is a Programmatic Biological Opinion (PBO) issued by the USFWS. These PBOs contain mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" of whichever species or critical habitat is covered by a specific PBO. Authorization under NWPs is conditional upon the permittee's compliance with all the mandatory terms and conditions associated with incidental take of the applicable PBO (or PBOs), which are incorporated by reference in the NWPs. Failure to comply with the terms and conditions associated with incidental take of an applicable PBO, where a take of the federally listed species occurs, would constitute an unauthorized take by the permittee, and would also constitute permittee

non-compliance with the authorization under the NWPs. If the terms and conditions of a specific PBO (or PBOs) apply to a project, the Corps will include this/these requirements in any NWP verification that may be issued for a project. For an activity/project that does not require a PCN, the terms and conditions of the applicable PBO(s) also apply to that non-notifying activity/project. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PBO and the ESA. All PBOs can be found on our website at: https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/ESA/.

16. **Work on Eastern Band of Cherokee Land.**

Notifying NWPs - All PCNs submitted for activities in waters of the U.S. on Eastern Band of Cherokee Indians (EBCI) trust land (i.e., Qualla Boundary and non-contiguous tracts of trust land located in portions of Swain, Jackson, Haywood, Graham and Cherokee Counties), must comply with the requirements of the latest MOU between the Wilmington District and the EBCI.

Non-notifying NWPs - Prior to the use of any non-notifying NWP for activities in waters of the U.S. on EBCI trust land (i.e., Qualla Boundary and non-contiguous tracts of trust land located in portions of Swain, Jackson, Haywood, Graham and Cherokee Counties), all prospective permittees must comply with the requirements of the latest MOU between the Wilmington District and the EBCI; this includes coordinating the proposed project with the EBCI Natural Resources Program and obtaining a Tribal Approval Letter from the Tribe.

The EBCI MOU can be found at the following URL: http://saw-reg.usace.army.mil/FO/Final-MOU-EBCI-USACE.pdf

17. **Sedimentation and Erosion Control Structures and Measures**
All PCNs will identify and describe sedimentation and erosion control structures and measures proposed for placement in waters of the U.S. The structures and measures should be depicted on maps, surveys or drawings showing location and impacts to jurisdictional wetlands and streams.

C. SECTION 401 WATER QUALITY CERTIFICATION (WQC) AND/OR COASTAL ZONE MANAGEMENT ACT (CZMA) CONSISTENCY DETERMINATION SUMMARY AND APPLICABLE CONDITIONS

The CZMA Consistency Determination and all Water Quality Certifications for the NWPs can be found at: https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Permits/2017-Nationwide-Permits/

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES

WATER QUALITY GENERAL CERTIFICATION NO. 4275

GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER 57 (ELECTRIC UTILITY LINE AND TELECOMMUNICATIONS ACTIVITIES)

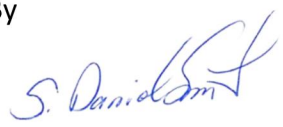
Water Quality General Certification Number 4275 is issued in conformity with the requirements of Section 401, Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Regulations in 15A NCAC 02H .0500 and 15A NCAC 02B .0200 for the discharge of fill material to surface waters and wetland areas as described in 33 CFR 330 Appendix A (B) (57) of the US Army Corps of Engineers regulations.

The State of North Carolina certifies that the specified category of activity will comply with water quality requirements and applicable portions of Sections 301, 302, 303, 306 and 307 of the Public Laws 92-500 and 95-217 if conducted in accordance with the conditions hereinafter set forth.

Effective date: March 15, 2021

Signed this day: December 18, 2020

By



_____

S. Daniel Smith
Director

GENERAL CERTIFICATION COVERAGE:

Activities that are eligible for US Army Corps of Engineers Nationwide Permit 57 qualify for coverage under this General Certification unless they meet one of the thresholds listed below. Activities meeting any one (1) of the thresholds or circumstances listed below are not eligible for coverage under this General Certification and require *an Individual* 401 Water Quality Certification from the Division of Water Resources (DWR):

a) If any of the conditions of this General Certification cannot be met; or
b) Total temporary impacts to streams greater than 500 feet within the entire utility project; or
c) Any permanent impacts to streams; or
d) Total permanent impacts to wetlands or open waters equal to or greater than one-tenth (1/10) acre within the entire utility project; or
e) Any stream restoration or stream relocation; or
f) Any high-density project, as defined in 15A NCAC 02H .1003(3) and by the density thresholds specified in 15A NCAC 02H .1017, which:
    i. Disturbs one acre or more of land (including a project that disturbs less than one acre of land that is part of a larger common plan of development or sale); and
    ii. Has permanent wetland, stream or open water impacts; and
    iii. Is proposing new built-upon area; and
    iv. Does not have a stormwater management plan reviewed and approved under a state stormwater program[1] or a state-approved local government stormwater program[2].

    Projects that have vested rights, exemptions, or other legacy rights or exemptions from state or locally-implemented stormwater programs and projects that satisfy state or locally-implemented stormwater programs through use of community in-lieu fee programs **require an Individual 401 Certification**; or
g) Any permanent impacts to waters, or to wetlands adjacent to waters, designated as: ORW (including SAV), HQW (including PNA), SA, WS-I, WS-II, Trout, or North Carolina or National Wild and Scenic River; or
h) Any permanent impacts to coastal wetlands [15A NCAC 07H .0205], or Unique Wetlands (UWL) [15A NCAC 02B .0231]; or
i) Any impacts to subject water bodies and/or state regulated riparian buffers along subject water bodies in the Neuse, Tar-Pamlico, or Catawba River Basins or in the Randleman Lake, Jordan Lake or Goose Creek Watersheds (or any other basin or watershed with State Regulated Riparian Area Protection Rules [Buffer Rules] in effect at the time of application) *unless*:
    i. The activities are listed as "EXEMPT" or "DEEMED ALLOWABLE" from these rules; or

[1] e.g. Coastal Counties, HQW, ORW, or state-implemented Phase II NPDES
[2] e.g. Delegated Phase II NPDES, Water Supply Watershed, Nutrient-Sensitive Waters, or Universal Stormwater Management Program

ii. A Buffer Authorization Certificate is issued by the NC Division of Coastal Management (DCM); or
iii. A Buffer Authorization Certificate, Certificate with Exception, or Minor Variance is issued by a delegated or designated local government implementing a state riparian buffer program pursuant to 143-215.23.

In accordance with 15A NCAC 02H .0503(f), the Director of the North Carolina Division of Water Resources may require submission of a formal application for Individual Certification for any project if it is deemed in the public's best interest or determined that the project is likely to have a significant adverse effect upon water quality, including state or federally listed endangered or threatened aquatic species, or will degrade the waters so that existing uses of the waters or downstream waters are precluded.

This General Certification does not relieve the permittee of the responsibility to obtain all other required Federal, State, or Local approvals before proceeding with the project, including those required by, but not limited to, Sediment and Erosion Control, Non-Discharge, Water Supply Watershed, and Trout Buffer regulations.

This General Certification neither grants nor affirms any property right, license, or privilege in any waters, or any right of use in any waters. This General Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This General Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this General Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded.

Upon the presentation of proper credentials, DWR may inspect the property.

This General Certification shall expire on the same day as the expiration date of the corresponding Nationwide Permit. The conditions in effect on the date of issuance of Certification for a specific project shall remain in effect for the life of the project, regardless of the expiration date of this General Certification. This General Certification is rescinded when the US Army Corps of Engineers reauthorizes the corresponding Nationwide Permit or when deemed appropriate by the Director of the Division of Water Resources.

Non-compliance with or violation of the conditions herein set forth by a specific project may result in revocation of this General Certification for the project and may also result in criminal and/or civil penalties.

I. ACTIVITY SPECIFIC CONDITIONS:

1. Any utility construction corridor that is parallel to a stream or open water shall not be closer than 10 feet to the top of bank or ordinary high-water mark.

Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

2. Where there are temporary or permanent impacts from stream crossings, utility lines shall cross the stream channel at a near-perpendicular direction (i.e., between 75 degrees and 105 degrees to the stream bank).

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

3. Construction corridors in wetlands and/or across stream channels shall be minimized to the maximum extent practicable and shall not exceed 40 feet wide.

   For construction corridors in wetlands and across stream channels, stumps shall be grubbed only as needed to install the utility, and remaining stumps shall be cut off at grade level. The general stripping of topsoil within wetlands along the construction corridor is prohibited.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

4. Permanent maintained access corridors in wetlands and across stream channels shall be restricted to the minimum width practicable and shall not exceed 30 feet wide.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

5. For all utility lines constructed within wetlands, an anti-seep collar shall be placed at the downstream (utility line gradient) wetland boundary and every 150 feet up the gradient until the utility exits the wetland. Anti-seep collars may be constructed with class B concrete, compacted clay, PVC pipe, or metal collars. Wetland crossings that are directionally drilled, and perpendicular wetland crossings that are open cut and less than 150 feet long do not require anti-seep collars. The compacted clay shall have a specific infiltration of 1 X 10^{-5} cm/sec or less. A section and plan view diagram is attached for the anti-seep collars.

   The following specifications shall apply to class B concrete:

   i. Minimum cement content, sacks per cubic yard with rounded coarse aggregate 5.0
   ii. Minimum cement content, sacks per cubic yard with angular coarse aggregate 5.5
   iii. Maximum water-cement ratio gallons per sack 6.8
   iv. Slump range 2" to 4"
   v. Minimum strength - 28-day psi 2,500

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

6. The permittee shall restore wetland contours to pre-construction conditions. Any excess material will be removed to a high ground disposal area.

   The mixing of topsoil and subsoils within the wetlands along utility corridors shall be minimized to the greatest extent practical. During excavation, the soils shall be placed on fabric to minimize impacts whenever possible. Topsoil excavated from utility trenches will be piled separately from subsoils and will be backfilled into the trench only after the subsoils have been placed and compacted.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. In determining that the proposed activity will comply with state water quality standards (including designated uses, numeric criteria, narrative criteria and the state's antidegradation policy), the Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards or would result in secondary or cumulative impacts.

II. GENERAL CONDITIONS:

1. The permittee shall report to the DWR Regional Office any noncompliance with, and/or any

violation of, stream or wetland standards [15A NCAC 02B .0200], including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances.

Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
Justification: Timely reporting of non-compliance is important in identifying and minimizing detrimental impacts to water quality and avoiding impacts due to water pollution that precludes any best use on a short-term or long-term basis.

2. No waste, spoil, solids, or fill of any kind shall occur in wetlands or waters beyond the footprint of the impacts (including temporary impacts); or beyond the thresholds established for use of this General Certification and Nationwide Permit.

   Citation: 15A NCAC 02H .0506; 15A NCAC 02H .0507(c)
   Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule (including, at minimum: aquatic life propagation, survival, and maintenance of biological integrity; wildlife; secondary contact recreation; agriculture); and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis.

3. All activities shall be in compliance with any applicable State Regulated Riparian Buffer Rules in Chapter 2B of Title 15A in the North Carolina Administrative Code.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: The referenced Riparian Buffer rules were adopted to address water quality impairments and further protect existing uses.

4. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur.

   Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*, or for linear transportation projects, the *North Caroline Department of Transportation Sediment and Erosion Control Manual*.

   All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.

   For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the

North Carolina Surface Mining Manual. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.

If the project occurs in waters or watersheds classified as Primary Nursery Areas (PNAs), SA, WS-I, WS-II, High Quality Waters (HQW), or Outstanding Resource Waters (ORW), then the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, *Design Standards in Sensitive Watersheds*.

Citation: 15A NCAC 02H .0506(b)(2); 15A NCAC 02H .0507(c); 15A NCAC02B .0200; 15A NCAC 02B .0231
Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses; and (12) turbidity in the receiving water shall not exceed 50 Nephelometric Turbidity Units (NTU) in streams not designated as trout waters and 10 NTU in streams, lakes, or reservoirs designated as trout waters; for lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTU; if turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased. As cited in Wetland Standards: (1) Liquids, fill or other solids, or dissolved gases shall not be present in amounts that may cause adverse impacts on existing wetland uses; and (3) Materials producing color or odor shall not be present in amounts that may cause adverse impacts on existing wetland uses.

5. Sediment and erosion control measures shall not be installed in wetland or waters except within the footprint of temporary or permanent impacts otherwise authorized by this Certification. If placed within authorized impact areas, then placement of such measures shall not be conducted in a manner that results in dis-equilibrium of any wetlands, streambeds, or streambanks. Any silt fence installed within wetlands shall be removed from wetlands and the natural grade restored within two (2) months of the date that DEMLR or locally delegated program has released the specific area within the project to ensure wetland standards are maintained upon completion of the project.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC02B .0200; 15A NCAC 02B .0231
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses; and (12) turbidity in the receiving water shall not exceed 50

Nephelometric Turbidity Units (NTU) in streams not designated as trout waters and 10 NTU in streams, lakes, or reservoirs designated as trout waters; for lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTU; if turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased. As cited in Wetland Standards: (1) Liquids, fill or other solids, or dissolved gases shall not be present in amounts that may cause adverse impacts on existing wetland uses; and (3) Materials producing color or odor shall not be present in amounts that may cause adverse impacts on existing wetland uses.

6. Erosion control matting that incorporates plastic mesh and/or plastic twine shall not be used along streambanks or within wetlands.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
   Justification: A project that affects waters shall not be permitted unless the existing uses (including aquatic life propagation and biological integrity), and the water quality to protect such uses, are protected. Protections are necessary to ensure any remaining surface waters or wetlands, and any surface waters or wetlands downstream, continue to support existing uses during and after project completion. The Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards, or would result in secondary or cumulative impacts.

7. If the project is covered by NPDES Construction Stormwater Permit Number NCG010000 or NPDES Construction Stormwater Permit Number NCG250000, full compliance with permit conditions including the erosion & sedimentation control plan, inspections and maintenance, self-monitoring, record keeping and reporting requirements is required.

   The North Carolina Department of Transportation (NCDOT) shall be required to be in full compliance with the conditions related to construction activities within the most recent version of their Individual NPDES Stormwater Permit Number NCS000250.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0200; 15A NCAC 02B .0231
   Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses; and (12) turbidity in the receiving water shall not exceed 50 Nephelometric Turbidity Units (NTU) in streams not designated as trout waters and 10 NTU in streams, lakes, or reservoirs designated as trout waters; for lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTU; if turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased. As cited in Wetland Standards: (1) Liquids, fill or other solids, or dissolved gases shall not be present in amounts that may cause adverse impacts on existing wetland uses;

and (3) Materials producing color or odor shall not be present in amounts that may cause adverse impacts on existing wetland uses.

8. All work in or adjacent to streams shall be conducted so that the flowing stream does not come in contact with the disturbed area. Approved best management practices from the most current version of the *NC Sediment and Erosion Control Manual*, or the *NC Department of Transportation Construction and Maintenance Activities Manual*, such as sandbags, rock berms, cofferdams, and other diversion structures shall be used to minimize excavation in flowing water.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0200 Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses; and (12) turbidity in the receiving water shall not exceed 50 Nephelometric Turbidity Units (NTU) in streams not designated as trout waters and 10 NTU in streams, lakes, or reservoirs designated as trout waters; for lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTU; if turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased.

9. If activities must occur during periods of high biological activity (e.g. sea turtle nesting, fish spawning, or bird nesting), then biological monitoring may be required at the request of other state or federal agencies and coordinated with these activities.

   All moratoriums on construction activities established by the NC Wildlife Resources Commission (WRC), US Fish and Wildlife Service (USFWS), NC Division of Marine Fisheries (DMF), or National Marine Fisheries Service (NMFS) shall be implemented. Exceptions to this condition require written approval by the resource agency responsible for the given moratorium.

   Work within a designated trout watershed of North Carolina (as identified by the Wilmington District of the US Army Corps of Engineers), or identified state or federal endangered or threatened species habitat, shall be coordinated with the appropriate WRC, USFWS, NMFS, and/or DMF personnel.

   Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 04B .0125 Justification: In order to protect against impairment of water quality standards and best usage of receiving and downstream waters, water quality based management practices must be employed to protect against direct or indirect discharge of waste or other sources of water pollution. Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule (including, at minimum: aquatic life propagation, survival, and maintenance of biological integrity, wildlife, secondary contact

recreation, agriculture), and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis.

10. In-stream structures installed to mimic natural channel geomorphology such as cross-vanes, sills, step-pool structures, etc. shall be designed and installed in such a manner that allow for continued aquatic life movement.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. Ensuring that in-stream structures are installed properly will ensure that surface water quality standards are met and conditions of waters are suitable for all best uses.

11. Culverts shall be designed and installed in such a manner that the original stream profiles are not altered and allow for aquatic life movement during low flows. The dimension, pattern, and profile of the stream above and below a pipe or culvert shall not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. The width, height, and gradient of a proposed culvert shall be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. If the width of the culvert is wider than the stream channel, the culvert shall include multiple boxes/pipes, baffles, benches and/or sills to maintain the natural width of the stream channel. If multiple culverts/pipes/barrels are used, low flows shall be accommodated in one culvert/pipe and additional culverts/pipes shall be installed such that they receive only flows above bankfull.

    Placement of culverts and other structures in streams shall be below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20% of the culvert diameter for culverts having a diameter less than or equal to 48 inches, to allow low flow passage of water and aquatic life. If the culvert outlet is submerged within a pool or scour hole and designed to provide for aquatic passage, then culvert burial into the streambed is not required.

    For structures less than 72” in diameter/width, and topographic constraints indicate culvert slopes of greater than 2.5% culvert burial is not required, provided that all alternative options for flattening the slope have been investigated and aquatic life movement/connectivity has been provided when possible (e.g. rock ladders, cross-vanes, sills, baffles etc.). Notification, including supporting documentation to include a location map of the culvert, culvert profile drawings, and slope calculations, shall be provided to DWR 30 calendar days prior to the installation of the culvert.

    When bedrock is present in culvert locations, culvert burial is not required, provided that there is sufficient documentation of the presence of bedrock. Notification, including supporting documentation such as a location map of the culvert, geotechnical reports, photographs, etc. shall be provided to DWR a minimum of 30 calendar days prior to the

installation of the culvert. If bedrock is discovered during construction, then DWR shall be notified by phone or email within 24 hours of discovery.

Installation of culverts in wetlands shall ensure continuity of water movement and be designed to adequately accommodate high water or flood conditions. When roadways, causeways, or other fill projects are constructed across FEMA-designated floodways or wetlands, openings such as culverts or bridges shall be provided to maintain the natural hydrology of the system as well as prevent constriction of the floodway that may result in destabilization of streams or wetlands.

The establishment of native woody vegetation and other soft stream bank stabilization techniques shall be used where practicable instead of rip-rap or other bank hardening methods.

Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. Ensuring that in-stream structures are installed properly will ensure that surface water quality standards are met and conditions of waters are suitable for all best uses.

12. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means to the maximum extent practicable (e.g. grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. Ensuring that in-stream structures are installed properly will ensure that surface water quality standards are met and conditions of waters are suitable for all best uses.

13. Application of fertilizer to establish planted/seeded vegetation within disturbed riparian areas and/or wetlands shall be conducted at agronomic rates and shall comply with all other Federal, State and Local regulations. Fertilizer application shall be accomplished in a manner that minimizes the risk of contact between the fertilizer and surface waters.

    Citation: 15A 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0231
    Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses.

14. If concrete is used during construction, then all necessary measures shall be taken to prevent direct contact between uncured or curing concrete and waters of the state. Water that inadvertently contacts uncured concrete shall not be discharged to waters of the state.

    Citation: 15A 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0200
    Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses.

15. All proposed and approved temporary fill and culverts shall be removed and the impacted area shall be returned to natural conditions within 60 calendar days after the temporary impact is no longer necessary. The impacted areas shall be restored to original grade, including each stream's original cross-sectional dimensions, planform pattern, and longitudinal bed profile. All temporarily impacted sites shall be restored and stabilized with native vegetation.

    Citation: 15A NCAC 02H.0506(b); 15A NCAC 02H .0507(c)
    Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Protections are necessary to ensure any remaining surface waters or wetlands, and any surface waters or wetlands downstream, continue to support existing uses after project completion.

16. All proposed and approved temporary pipes/culverts/rip-rap pads etc. in streams shall be installed as outlined in the most recent edition of the *North Carolina Sediment and Erosion Control Planning and Design Manual* or the *North Carolina Surface Mining Manual* or the *North Carolina Department of Transportation Best Management Practices for Construction and Maintenance Activities* so as not to restrict stream flow or cause dis-equilibrium during use of this General Certification.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. Ensuring that in-stream structures are installed properly will ensure that surface water quality standards are met and conditions of waters are suitable for all best uses.

17. Any rip-rap required for proper culvert placement, stream stabilization, or restoration of temporarily disturbed areas shall be restricted to the area directly impacted by the approved construction activity. All rip-rap shall be placed such that the original streambed elevation and streambank contours are restored and maintained and shall consist of clean rock or masonry material free of debris or toxic pollutants. Placement of rip-rap or other

approved materials shall not result in de-stabilization of the stream bed or banks upstream or downstream of the area or be installed in a manner that precludes aquatic life passage.

Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. The Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards, or would result in secondary or cumulative impacts.

18. Any rip-rap used for stream or shoreline stabilization shall be of a size and density to prevent movement by wave, current action, or stream flows, and shall consist of clean rock or masonry material free of debris or toxic pollutants. Rip-rap shall not be installed in the streambed except in specific areas required for velocity control and to ensure structural integrity of bank stabilization measures.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0201
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. The Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards, or would result in secondary or cumulative impacts.

19. Rip-rap groins proposed in accordance with 15A NCAC 07H .1401 (NC Division of Coastal Management General Permit for construction of Wooden and Rip-rap Groins in Estuarine and Public Trust Waters) shall meet all the specific conditions for design and construction specified in 15A NCAC 07H .1405.

    Citation: 15A NCAC 02H .0507(c); 15A NCAC 07H .1400 et seq.
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. The Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards, or would result in secondary or cumulative impacts.

20. All mechanized equipment operated near surface waters shall be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids, or other toxic materials. Construction shall be staged in order to minimize the exposure of equipment to surface waters to the maximum extent practicable. Fueling, lubrication, and general equipment maintenance shall be performed in a manner to prevent, to the maximum extent practicable, contamination of surface waters by fuels and oils.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0200
    Justification: A project that affects waters shall not be permitted unless the existing uses, and the water quality to protect such uses, are protected. Activities must not cause water pollution that precludes any best use on a short-term or long-term basis. As cited in Stream

Standards: (2) Oils, deleterious substances, or colored or other wastes: only such amounts as shall not render the waters injurious to public health, secondary recreation, or to aquatic life and wildlife, or adversely affect the palatability of fish, aesthetic quality, or impair the waters for any designated uses.

21. Heavy equipment working in wetlands shall be placed on mats or other measures shall be taken to minimize soil disturbance and compaction.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0231
    Justification: Wetland standards require maintenance or enhancement of existing uses of wetlands such that hydrologic conditions necessary to support natural biological and physical characteristics are protected; populations of wetland flora and fauna are maintained to protect biological integrity of the wetland; and materials or substances are not present in amounts that may cause adverse impact on existing wetland uses.

22. In accordance with 143-215.85(b), the permittee shall report any petroleum spill of 25 gallons or more; any spill regardless of amount that causes a sheen on surface waters; any petroleum spill regardless of amount occurring within 100 feet of surface waters; and any petroleum spill less than 25 gallons that cannot be cleaned up within 24 hours.

    Citation: 15A NCAC 02H .0507(c); N.C.G.S 143-215.85(b)
    Justification: Person(s) owning or having control over oil or other substances upon notice of discharge must immediately notify the Department, or any of its agents or employees, of the nature, location, and time of the discharge and of the measures which are being taken or are proposed to be taken to contain and remove the discharge. This action is required in order to contain or divert the substances to prevent entry into the surface waters. Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule (including, at minimum: aquatic life propagation, survival, and maintenance of biological integrity; wildlife; secondary contact recreation; agriculture); and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis.

23. The permittee and their authorized agents shall conduct all activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act), and any other appropriate requirements of State and Federal Law.

    Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
    Justification: Surface water quality standards require that conditions of waters be suitable for all best uses provided for in state rule, and that activities must not cause water pollution that precludes any best use on a short-term or long-term basis. The Division must evaluate if the activity has avoided and minimized impacts to waters, would cause or contribute to a violation of standards, or would result in secondary or cumulative impacts.

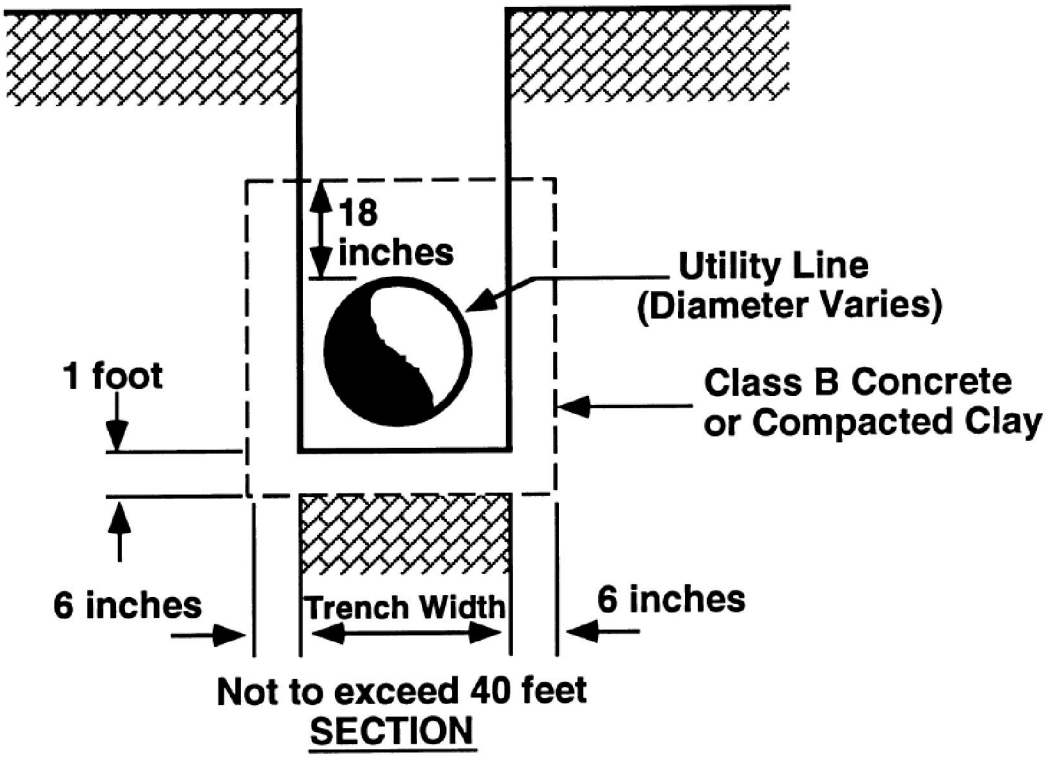
24. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall

provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this General Certification. A copy of this General Certification shall be available at the project site during the construction and maintenance of this project.

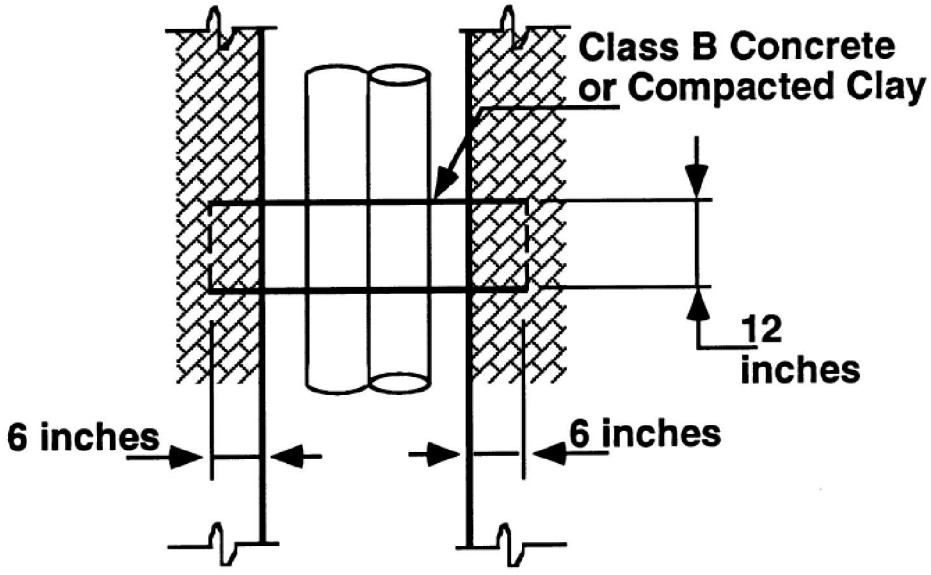
Citation: 15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)
Justification: Those actually performing the work should be aware of the requirements of this 401 Water Quality General Certification to minimize water quality impacts.

History Note: Water Quality Certification (WQC) Number 4275 issued December 18, 2020 replaces WQC 4133 issued December 1, 2017 for activities eligible for USACE NWP 57; WQC 4086 issued March 3, 2017; WQC 3884 issued March 19, 2012; WQC 3819 issued March 19, 2010; WQC 3699 issued November 1, 2007; WQC 3625 issued March 19, 2007; WQC 3374 issued March 18, 2002; WQC 3288 issued June 1, 2000; WQC 3101 issued February 11, 1997; WQC 3022 issued September 6, 1995, WQC 2664 issued January 21, 1992.

ANTI -SEEP COLLAR



SECTION



PLAN

☑ CAMA / ☐ DREDGE & FILL

GENERAL PERMIT

☑ New ☐ Modification ☐ Complete Reissue ☐ Partial Reissue

Nº 77066

A B C (D)

Previous permit # —

Date previous permit issued —

As authorized by the State of North Carolina, Department of Environmental Quality and the Coastal Resources Commission in an area of environmental concern pursuant to 15A NCAC 07H.1600

☑ Rules attached.

Applicant Name NCDOT

Address 1598 Mail Service Center

City Raleigh State NC ZIP 27699-1598

Phone # (919) 707-6111 E-Mail jldilday@ncdot.gov

Authorized Agent Jason Dilday

Project Location: County Brunswick

Street Address/ State Road/ Lot #(s) U574, approximately 0.95 miles east of Maco Rd NE/NC 87.

Subdivision —

City Leland, NC ZIP 28451

Phone # ( ) — River Basin Cape Fear

Adj. Wtr. Body Hood Creek (nat)/man /unkn)

Closest Maj. Wtr. Body Cape Fear River

Affected AEC(s): ☐ CW ☐ EW ☑ PTA ☐ ES ☑ PTS ☐ OEA ☐ HHF ☐ IH ☐ UBA ☐ N/A ☐ PWS:

ORW: yes / (no) **PNA** yes / (no)

Type of Project/ Activity Construct three 1.25" diameter conduits, each approximately 155' in length and containing fiber optic line, and attach to the underside of the existing bridge. **(Scale:** N/A **)**

Pier (dock) length —

Fixed Platform(s) —

Floating Platform(s) —

Finger pier(s) —

Groin length —

number —

Bulkhead/ Riprap length —

avg distance offshore —

max distance offshore —

Basin, channel —

—

cubic yards —

Boat ramp —

Boathouse/ Boatlift —

—

Beach Bulldozing —

Other 3 (1.25") conduits, each ≈155' long and containing F.O. cable

Shoreline Length ≥ 50'

SAV: not sure yes (no)

Moratorium: n/a yes (no)

Photos: (yes) no

Waiver Attached: yes (no)

Utility Plans Attached and Incorporated into Permit.

A building permit may be required by: Town of Leland / Brunswick Co. ☐ See note on back regarding River Basin rules.

(Note Local Planning Jurisdiction)

Notes/ Special Conditions ① The utility lines shall be installed a minimum of one foot above the "low steel" of the bridge. ② Measures sufficient to restrain sedimentation and erosion shall be utilized in accordance with BMPs. ③ Finished grades shall be returned to pre-project contours.

Philip S. Harris, III, P.E., C.P.M. for

Agent or Applicant Printed Name

DocuSigned by: Mack C. Rivenbark III AAAD1248B309416...

Signature ** Please read compliance statement on back of permit **

$400.00 WBS# 49456.3.4

Application Fee(s) Check #

Stephen Lane

Permit Officer's Printed Name

Stephen Lane

Signature

1-31-22 N/A - G5.136-44-7B

Issuing Date Expiration Date

SECTION .1600 - GENERAL PERMIT FOR THE INSTALLATION OF AERIAL AND SUBAQUEOUS UTILITY LINES WITH ATTENDANT STRUCTURES IN COASTAL WETLANDS: ESTUARINE WATERS: PUBLIC TRUST WATERS AND ESTUARINE SHORELINES

15A NCAC 07H .1601 PURPOSE

A permit under this Section shall allow for the installation of utility lines both aerially and subaqueously in the coastal wetland, estuarine water, public trust areas and estuarine and public trust shoreline AECs according to the authority provided in Subchapter 7J .1100 and according rules in this Section. This general permit shall not apply to the ocean hazard AECs.

History Note: *Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1;*
Eff. March 1, 1985;
Amended Eff. August 1, 2000; August 1, 1998.

15A NCAC 07H .1602 APPROVAL PROCEDURES

(a) The applicant must contact the Division of Coastal Management and complete an application form requesting approval for development. The applicant shall provide information on site location, dimensions of the project area, and his name and address.

(b) The applicant must provide:

(1) confirmation that a written statement has been obtained signed by the adjacent riparian property owners indicating that they have no objections to the proposed work; or

(2) confirmation that the adjacent riparian property owners have been notified by certified mail of the proposed work. Such notice should instruct adjacent property owners to provide any comments on the proposed development in writing for consideration by permitting officials to the Division of Coastal Management within ten days of receipt of the notice, and, indicate that no response will be interpreted as no objection. DCM staff will review all comments and determine, based on their relevance to the potential impacts of the proposed project, if the proposed project can be approved by a General Permit. If DCM staff finds that the comments are worthy of more in-depth review, the applicant will be notified that he must submit an application for a major development permit.

(c) No work shall begin until an on-site meeting is held with the applicant and appropriate Division of Coastal Management representative so that the utility line alignment can be appropriately marked. Written authorization to proceed with the proposed development will be issued during this visit. Construction on the utility line must begin within twelve months of this visit or the general authorization expires.

History Note: *Authority G.S. 113A-107(a)(b); 113A-113(b); 113A-118.1; 113A-229(cl);*
Eff. March 1, 1985;
Amended Eff. January 1, 1990.

15A NCAC 07H .1603 PERMIT FEE

The applicant shall pay a permit fee of four hundred dollars ($400.00) by check or money order payable to the Department.

History Note: *Authority G.S. 113-229(c1); 113A-107; 113A-113(b); 113A-118.1; 113A-119; 113A-119.1;*
Eff. March 1, 1985;
Amended Eff. September 1, 2006; August 1, 2000; March 1, 1991.

15A NCAC 07H .1604 GENERAL CONDITIONS

(a) Utility lines for the purpose of this general permit or any pipes or pipelines for the transportation of potable water, domestic sanitary sewage, natural gas, and any cable, line, or wire for the transmission, for any purpose, of electrical energy, telephone and telegraph messages, and radio and television communication.

(b) There must be no resultant change in preconstruction bottom contours. Authorized fill includes only that necessary to backfill or bed the utility line. Any excess material must be removed to an upland disposal area.

(c) The utility line crossing will not adversely affect a public water supply intake.

(d) The utility line route or construction method will not disrupt the movement of those species of aquatic life indigenous to the waterbody.
(e) Individuals shall allow authorized representatives of the Department of Environment, Health, and Natural Resources to make periodic inspections at any time necessary to ensure that the activity being performed under authority of this general permit is in accordance with the terms and conditions prescribed herein.
(f) This general permit will not be applicable to proposed construction where the Department has determined, based on an initial review of the application, that notice and review pursuant to G.S. 113A-119 is necessary because there are unresolved questions concerning the proposed activity=s impact on adjoining properties or on water quality; air quality; coastal wetlands; cultural or historic sites; wildlife; fisheries resources; or public trust rights.
(g) This permit does not eliminate the need to obtain any other required state, local, or federal authorization, nor, to abide by regulations adopted by any federal or other state agency.
(h) Development carried out under this permit must be consistent with all local requirements, AEC guidelines, and local Land Use Plans current at the time of authorization.

History Note: *Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1;*
Eff. March 1, 1985;
Amended Eff. May 1, 1990;
RRC Objection due to ambiguity Eff. May 19, 1994;
Amended Eff. August 1, 1998; July 1, 1994.

15A NCAC 07H .1605 SPECIFIC CONDITIONS

Proposed utility line installations must meet each of the following specific conditions to be eligible for authorization by this general permit:

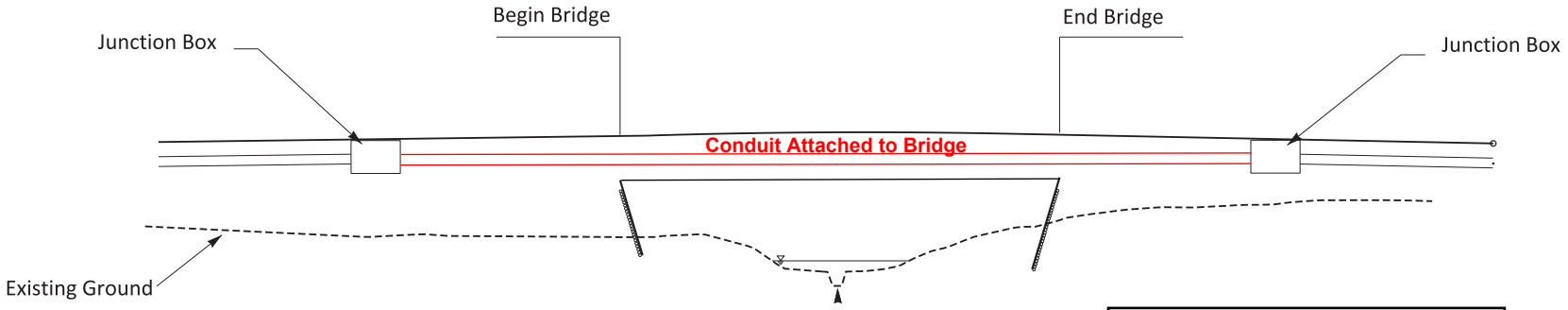
(1) All domestic sanitary sewer line requests must be accompanied by a statement of prior approval from the NC Division Water Quality.
(2) All spoils which are permanently removed must be placed on a high ground disposal site and stabilized so as not to return to waters, marsh or other wetlands.
(3) Any additional backfill material required must be clean sand or rock free of organic matter.
(4) Cuts through wetlands must be minimized.
(5) Finished grades or subaqueous or wetland crossing must be returned to preproject contours.
(6) There can be no work within any productive shellfish beds.
(7) No excavation or filling activities will be permitted between April 1 and September 30 of any year within any designated primary nursery area.
(8) Subaqueous lines must be placed at a depth of six feet below the project depth of federal projects. In other areas they will be installed at a minimum depth of two feet below the bottom contour.
(9) The minimum clearance for aerial communication lines or any lines not transmitting electricity will be 10' above the clearance required for bridges in the vicinity.
(10) The minimum clearance for aerial electrical transmission lines shall be consistent with those established by the US Army Corps of Engineers and US Coast Guard.
(11) The installation of a utility line on pipe bents or otherwise above the elevation of mean high or mean ordinary water must be of sufficient height to allow for traditional navigation in the water body. Additionally the utility line must not interfere with the waterflow of normal or flood waters.
(12) Natural gas lines must not exceed 11 inches in diameter.

History Note: *Authority G.S. 113-229(c1); 113A-107(a)(b); 113A-113(b); 113A-118.1;*
Eff. March 1, 1985;
Amended Eff. August 1, 1998.

Revised 5/5/2021

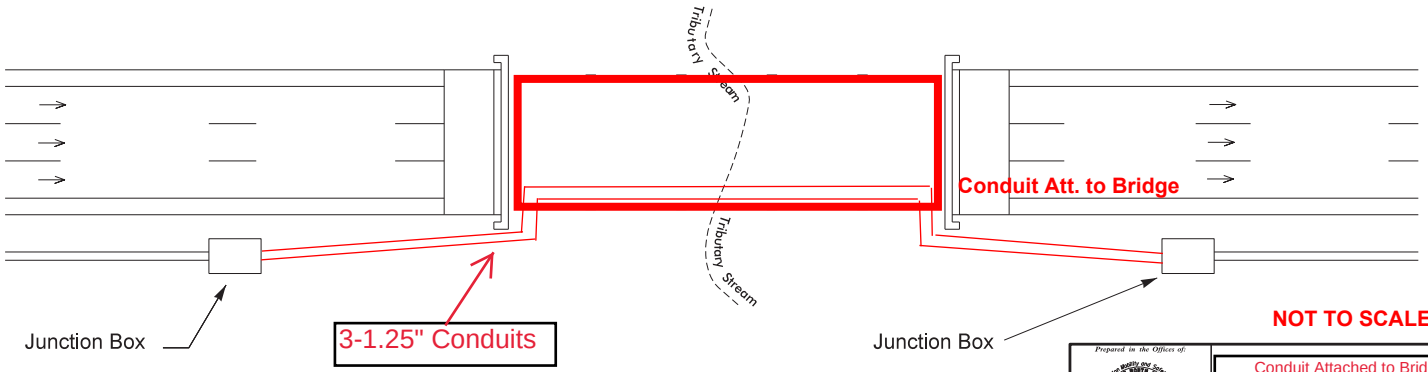
PROJECT REFERENCE NO.	SHEET NO.
HO-0002C	DD-TYP1

CONDUIT ATTACHED TO BRIDGE



See "Bridge Conduit System" for additional information

PROFILE VIEW



NOT TO SCALE

PLAN VIEW

Prepared in the Offices of:

750 N. Greenfield Pkwy., Garner, NC. 27529

Conduit Attached to Bridge
Bridge No. 4 over Hood Creek
Brunswick County

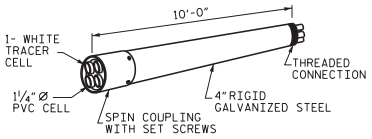
SCALE

REVISIONS	INIT.	DATE

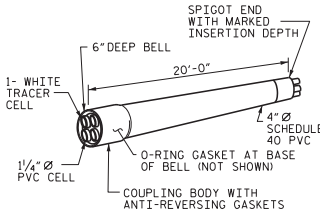
SEAL

SIGNATURE DATE

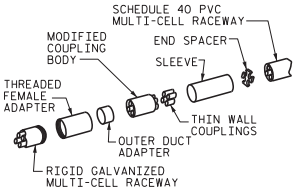
CADD Filenames



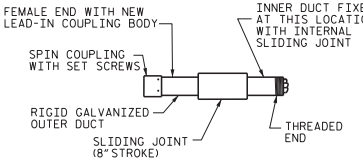
RIGID GALVANIZED (RGC)
MULTI-CELL RACEWAY



SCHEDULE 40 PVC
MULTI-CELL RACEWAY



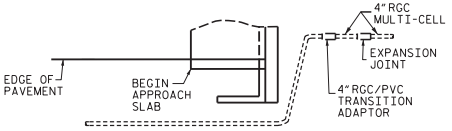
TRANSITION ADAPTER



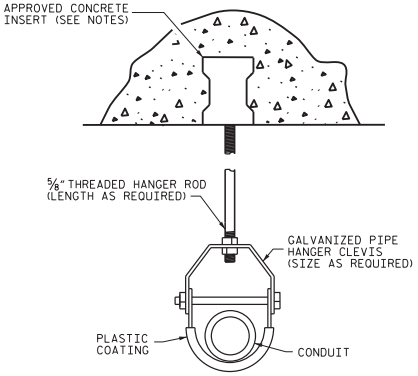
EXPANSION JOINT FITTING

DETAIL "D"

4" MULTI-CELL COMPONENTS



DETAIL "A"
TERMINATION OF CONDUIT AT WING WALL



DETAIL "C"
HANGER ASSEMBLY

NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TOTAL QUANTITY OF CONDUIT NEEDED TO COMPLETE THE WORK AND THAT THE CONDUIT(S) ARE PLACED AT THE NOTED DIMENSION AND ABOVE THE BOTTOM OF THE GIRDER.

BRIDGE CONDUIT SYSTEM SHALL BE MEASURED AND PAID AS LINEAR FEET. THE PRICE SHALL INCLUDE ALL CONDUIT, HANGERS, STABILIZERS, EXPANSION JOINTS, CONCRETE INSERTS, PVC SLEEVES AND ALL NECESSARY HARDWARE TO COMPLETE THE WORK.

THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUIT SYSTEM IS NOT IN CONFLICT WITH THE GUARDRAIL POSTS.

SEE DETAIL "C" FOR HANGER ASSEMBLY INSTALLATION.

PROVIDE TRANSITION ADAPTOR AND EXPANSION JOINT FOR CONDUIT AT END BENT 1 AND END BENT 2.

INSTALL STABILIZER'S MIDWAY BETWEEN DECK EXPANSION JOINTS. STABILIZER CAN NOT BE USED INSTEAD OF A HANGER ASSEMBLY.

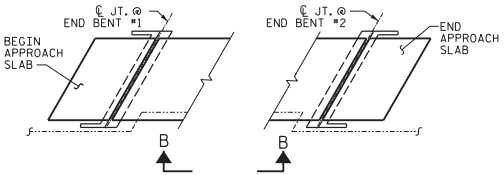
INSTALL EXPANSION JOINTS AT EACH BENT.

THE CONCRETE SCREW INSERT SHALL HAVE A ROD SIZE OF ⅝" AND A PULL FORCE OF 1260 lbs.

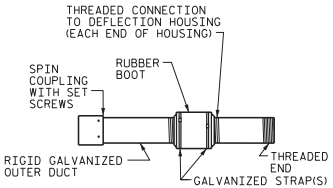
FOR BRIDGE CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

THE CONDUIT WILL BE INSTALLED AT A MINIMUM OF 1 FOOT ABOVE LOW STEEL.

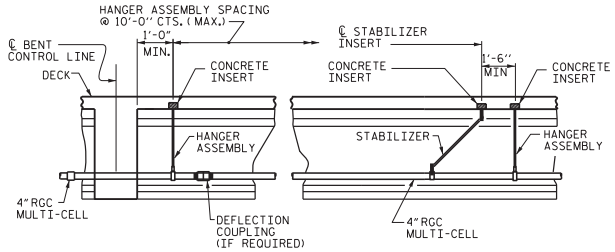
DETAILS SHOWN ARE FOR RGC CONDUIT, CONTRACTOR MAY USE FIBERGLASS REINFORCED EPOXY CONDUIT.



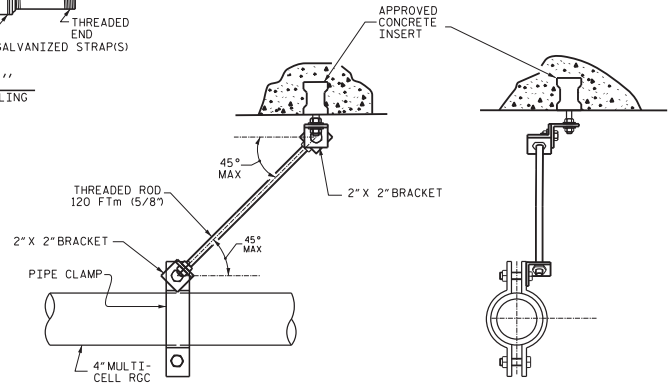
CONDUIT LAYOUT



DETAIL "F"
DEFLECTION COUPLING



VIEW B-B
PRESTRESSED GIRDERS
CONTINUOUS FOR LIVE LOAD



DETAIL "E"
STABILIZER

CONDUIT DETAILS

HO-0002C

PROJECT NO. _____

STATION: Brunswick County

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE CONDUIT SYSTEM

NORTH CAROLINA PROFESSIONAL SEAL 26936 ENGINEER DAVID S. STUTTS

1/31/2018

ASSEMBLED BY : J.P. ADAMS	DATE : 1/2018
CHECKED BY : D.S. STUTTS	DATE : 1/2018
DRAWN BY : RWW 2-4-03	REV. 5/1/06 TLA/GM
CHECKED BY : DBM 2-4-03	REV. 10/1/11 MAA/GM

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			1

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

OBJECTID_1	Conduit	FREQUENCY	SUM_LenFeetWet	Area	Plan Sheet
1	Attach	23	1746.685659		
2	Bore	567	34596.47223		
3	Plow	1	32.55127108	0.000747	273
4	Trench	1	40.69557159	0.009342	375

LEGEND

- WETLANDS
- CULVERTS
- BRIDGES
- CENTERLINE
- ACTIVE CONSTRUCTION PROJECT (I4400-I4700)
- PARCELS
- COUNTIES
- PLOW
- OPEN TRENCH
- DIRECTIONAL BORE
- ATTACH TO BRIDGE
- RAIL ROAD

0 200 400

HORIZONTAL SCALE: 1" = 200'

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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: LEGEND

SHEET: LEGEND

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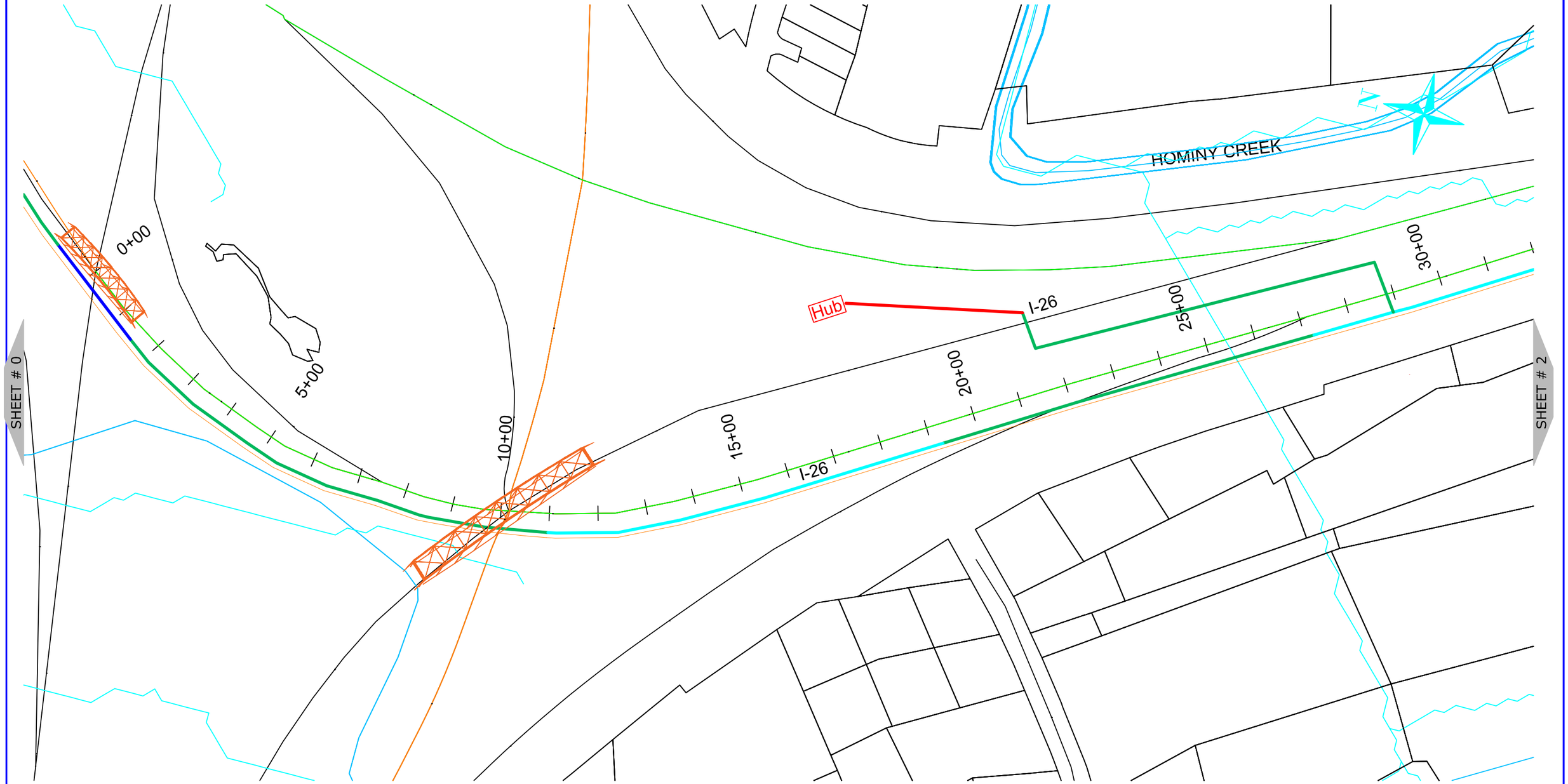
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PROJECT NAME:
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SHEET NAME:
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SHEET:
0

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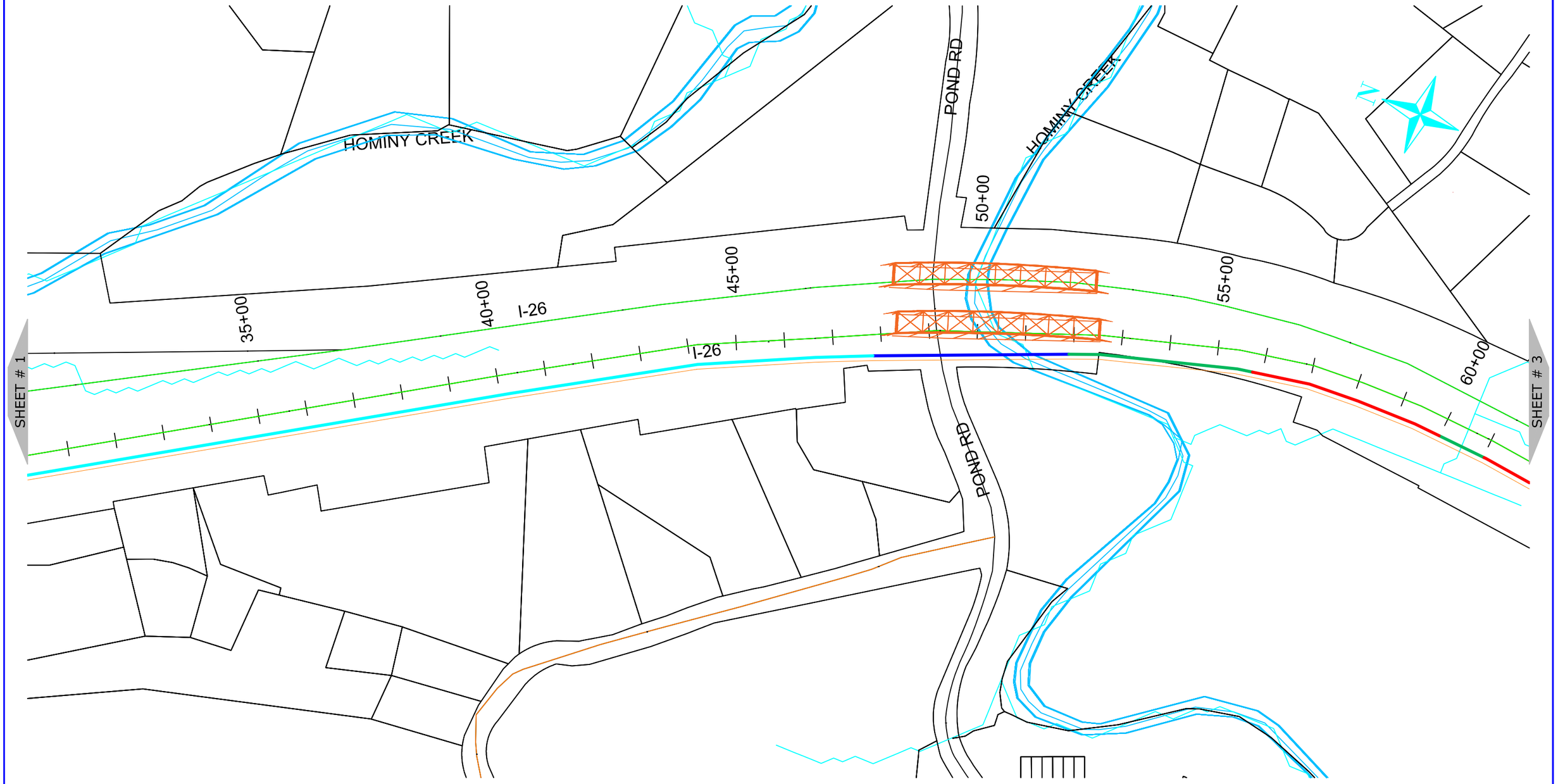
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PROJECT NAME:
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SHEET NAME:
1

SHEET:
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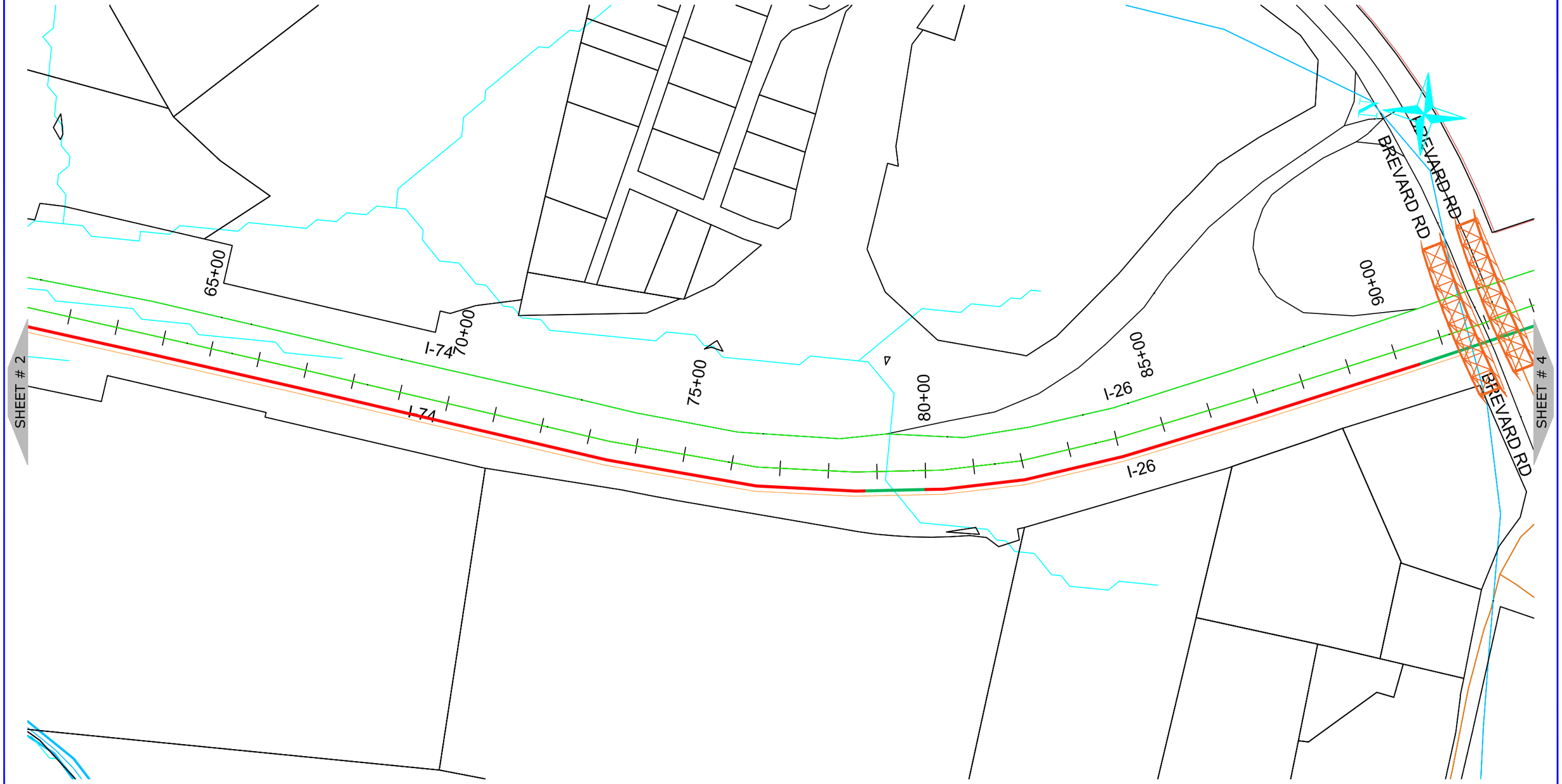
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PROJECT NAME: US-74

SHEET NAME: 2

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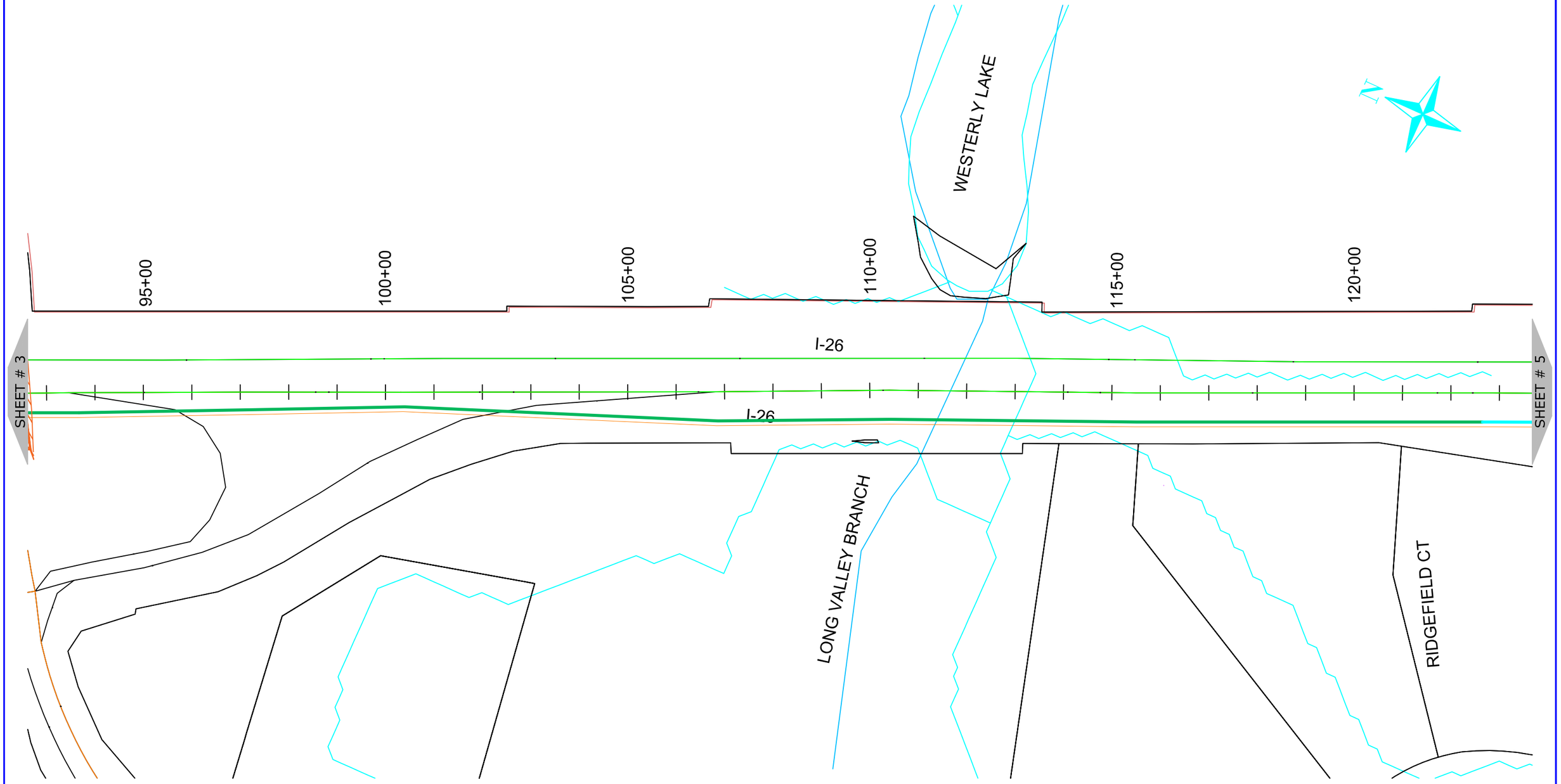
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PROJECT NAME:
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SHEET NAME:
3

SHEET:
3

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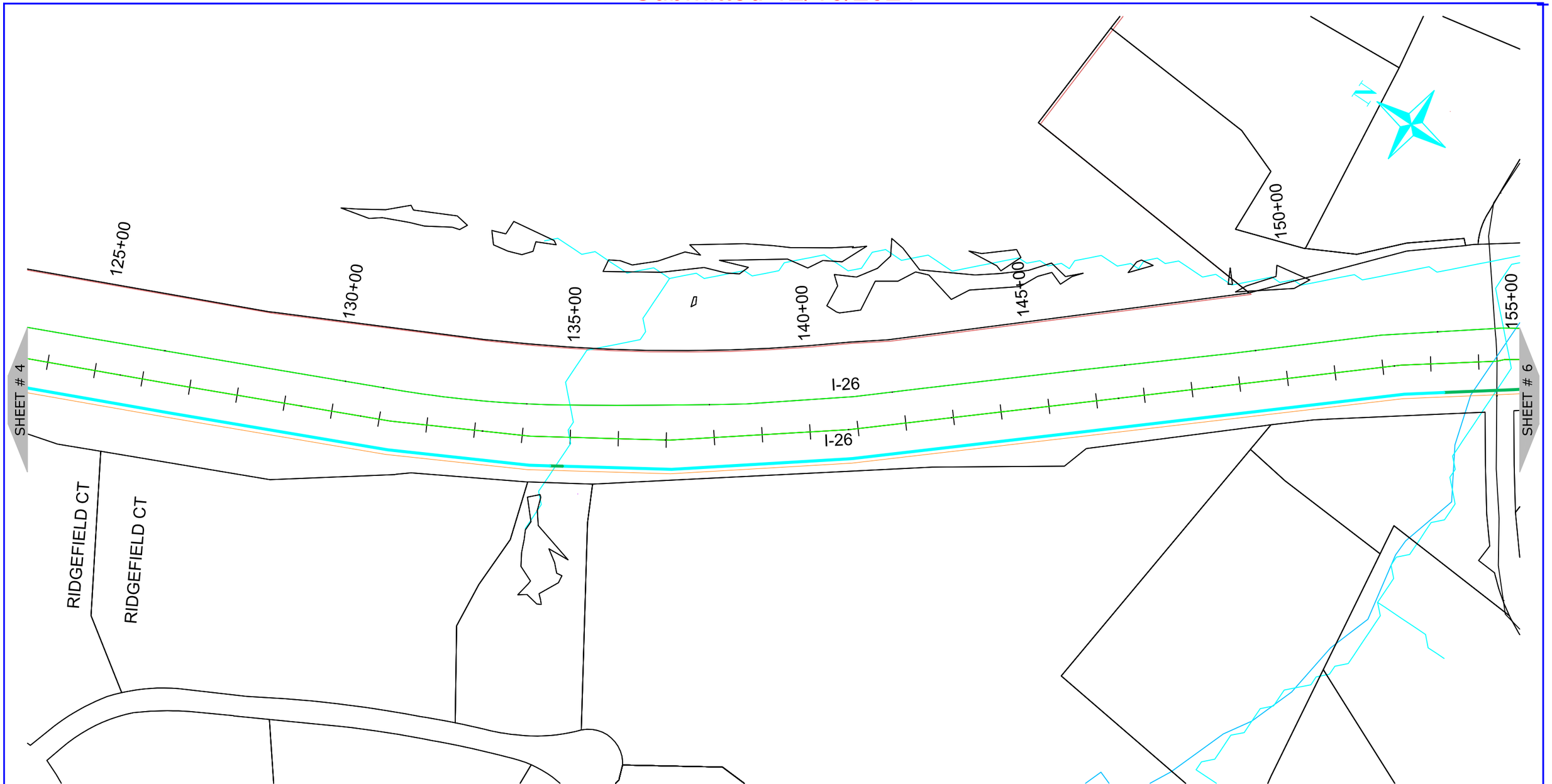
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PROJECT NAME: US-74

SHEET NAME: 4

SHEET: 4

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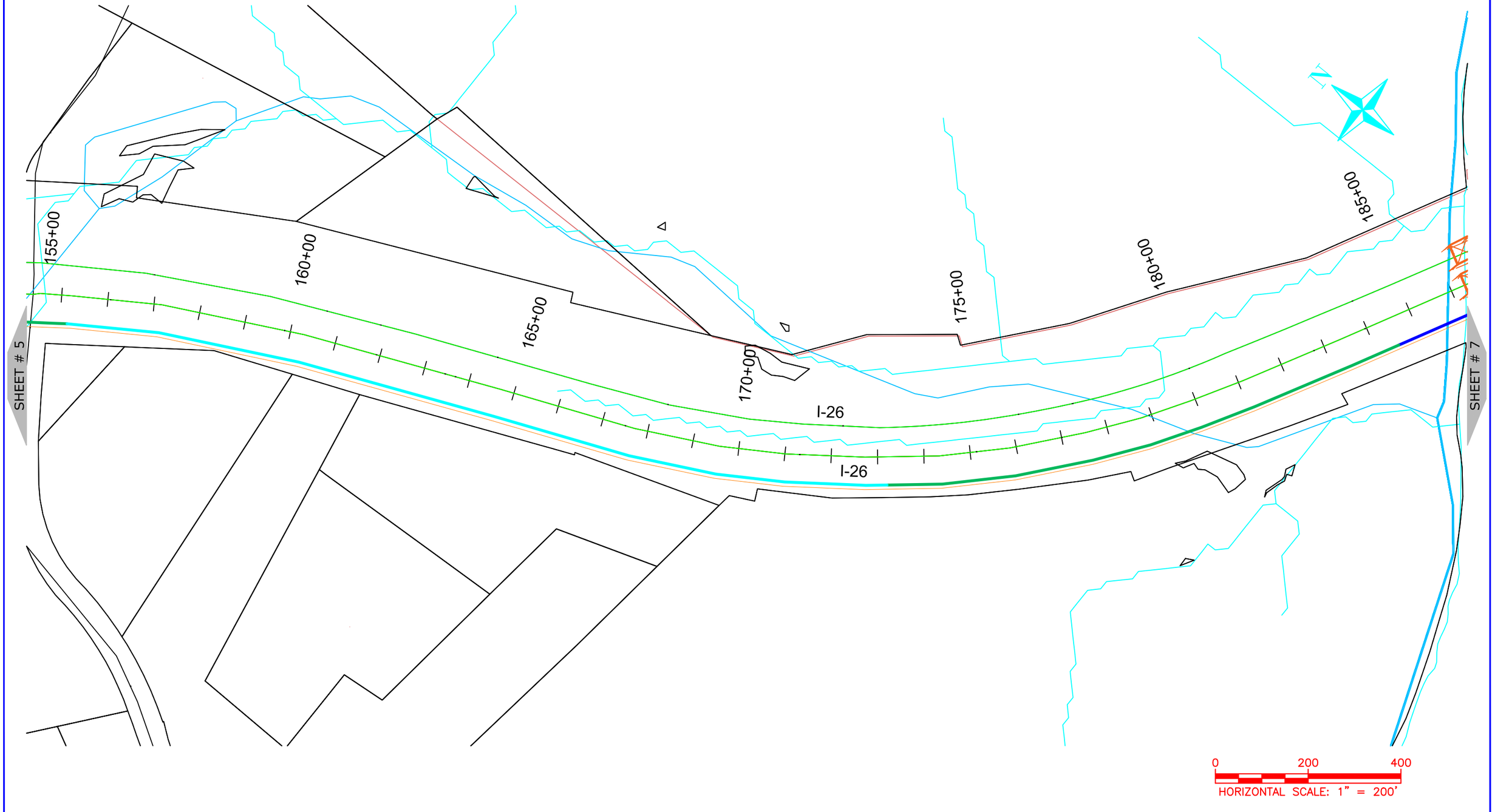
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PROJECT NAME: US-74

SHEET NAME: 5

SHEET: 5

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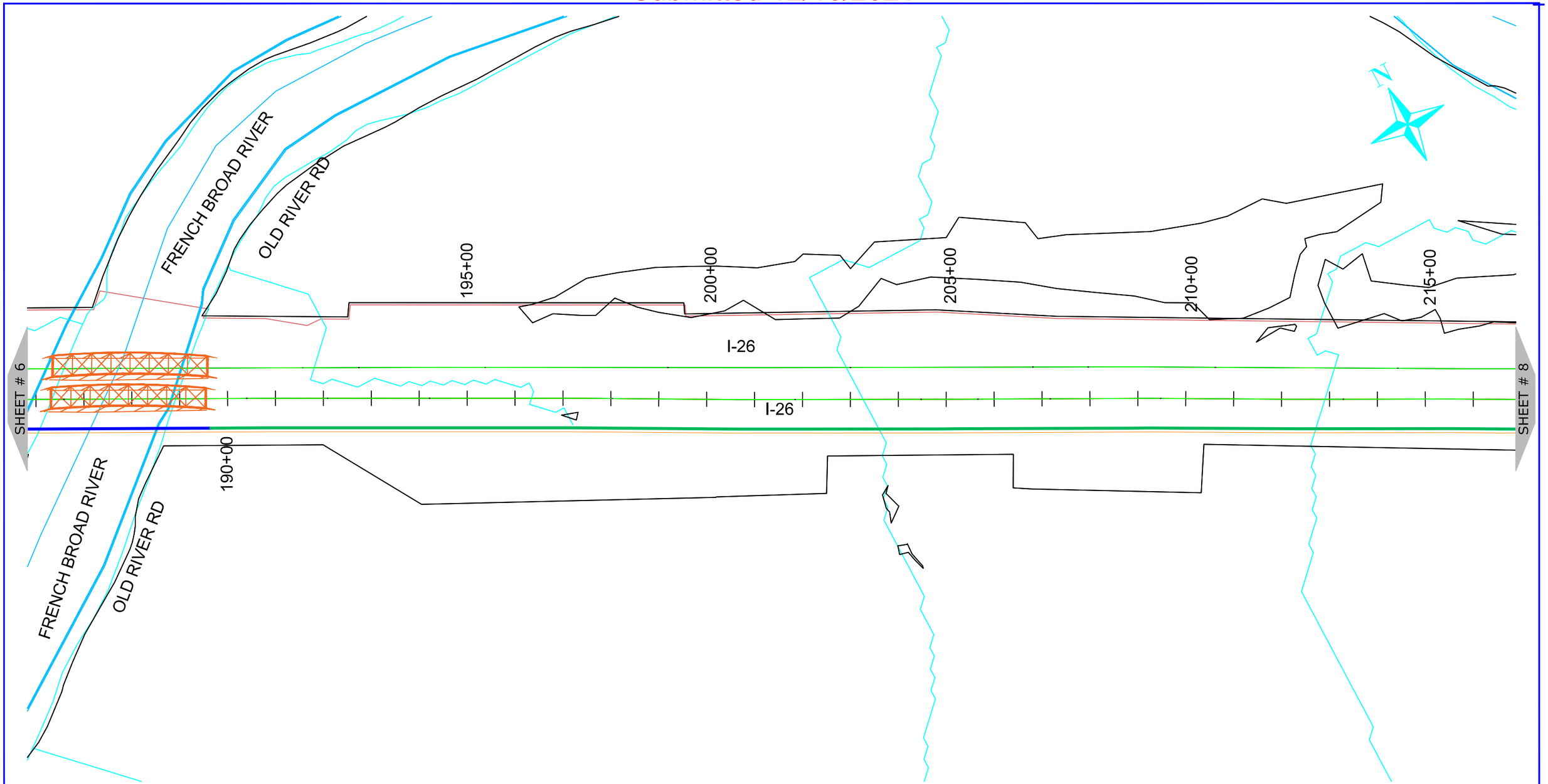
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PROJECT NAME: US-74

SHEET NAME: 6

SHEET: 6

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PROJECT NAME: US-74

SHEET NAME: 7

SHEET: 7

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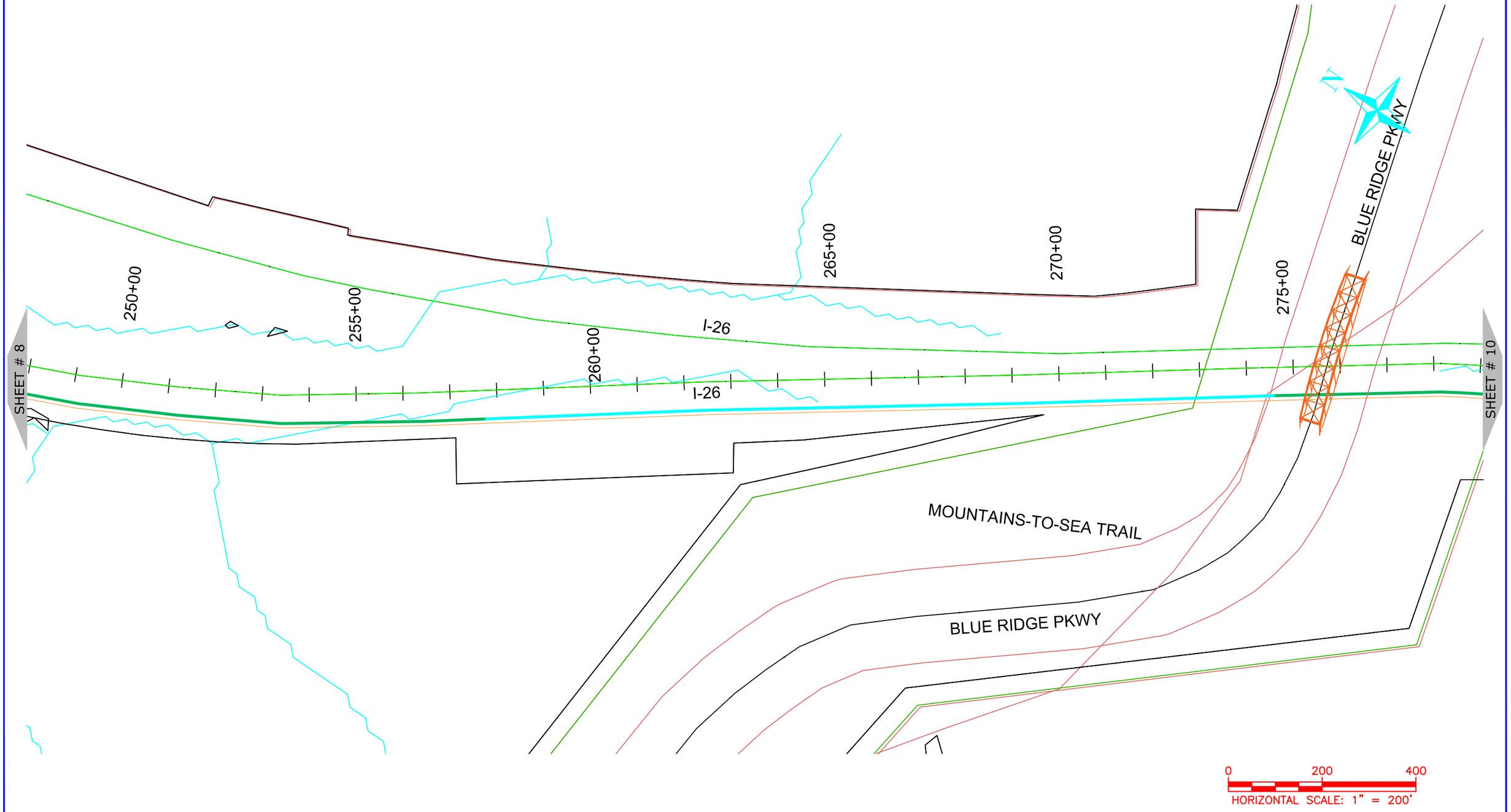
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PROJECT NAME: US-74

SHEET NAME: 8

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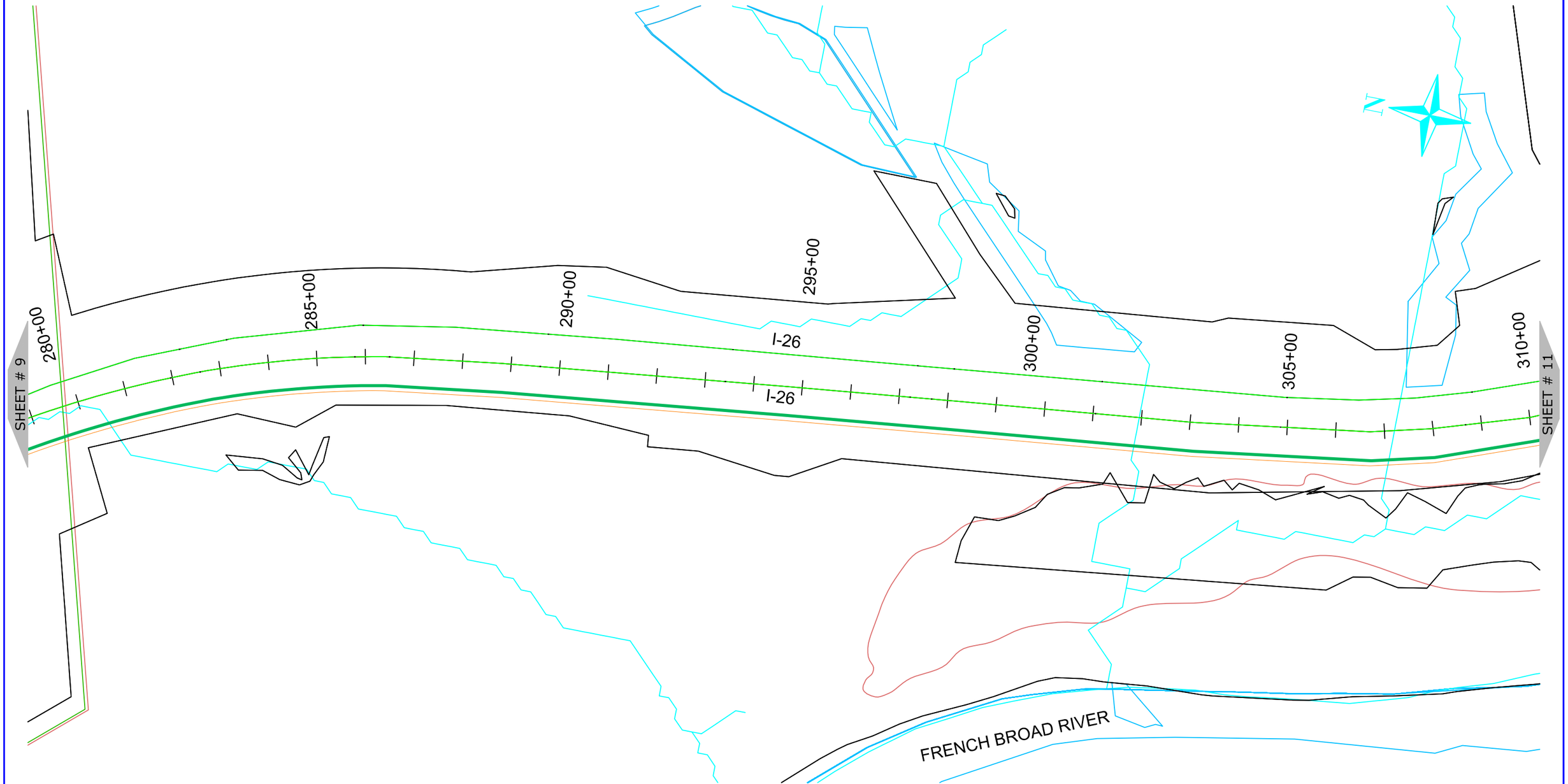
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PROJECT NAME: US-74

SHEET NAME: 9

SHEET: 9

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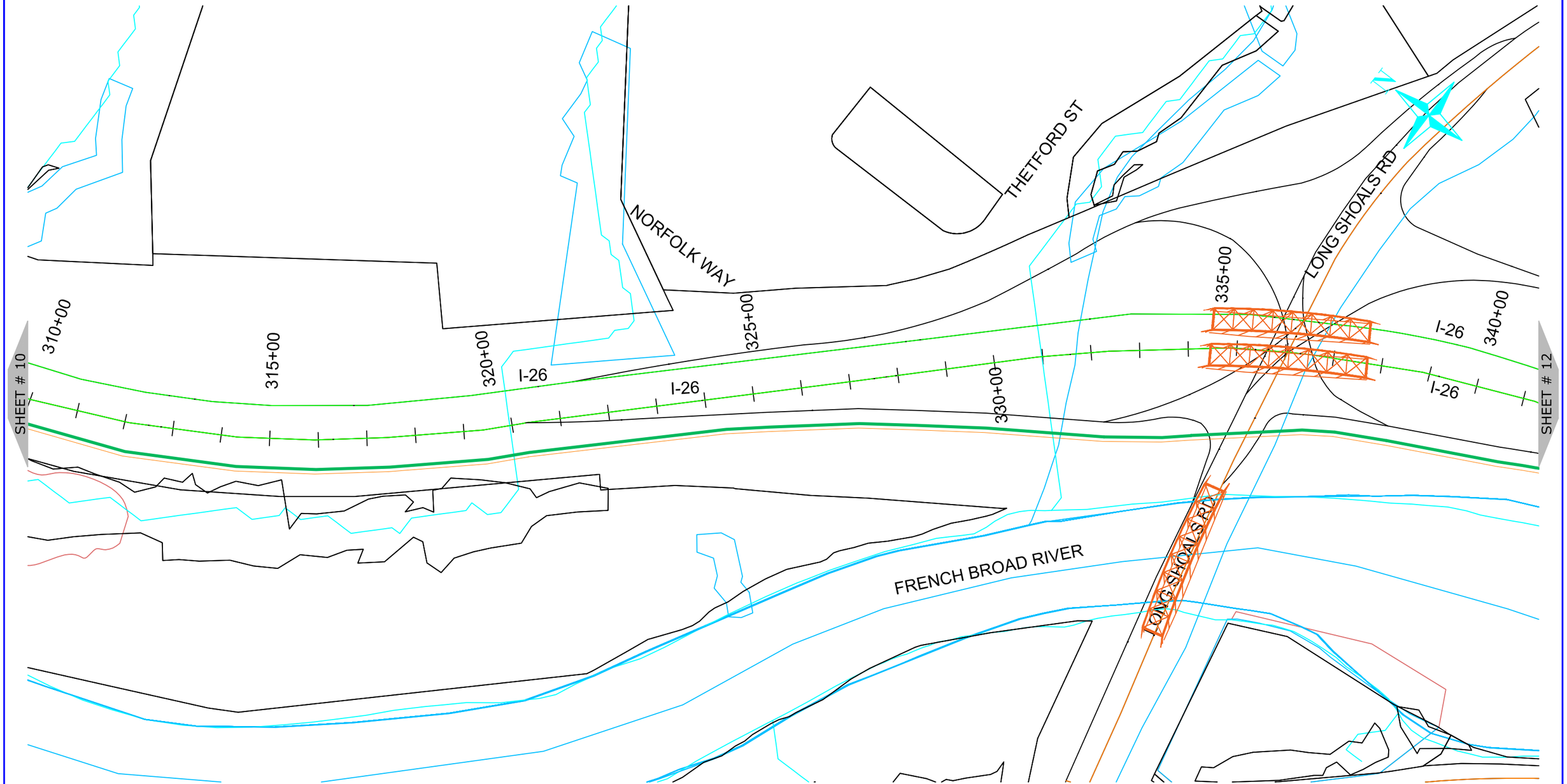
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PROJECT NAME: US-74

SHEET NAME: 10

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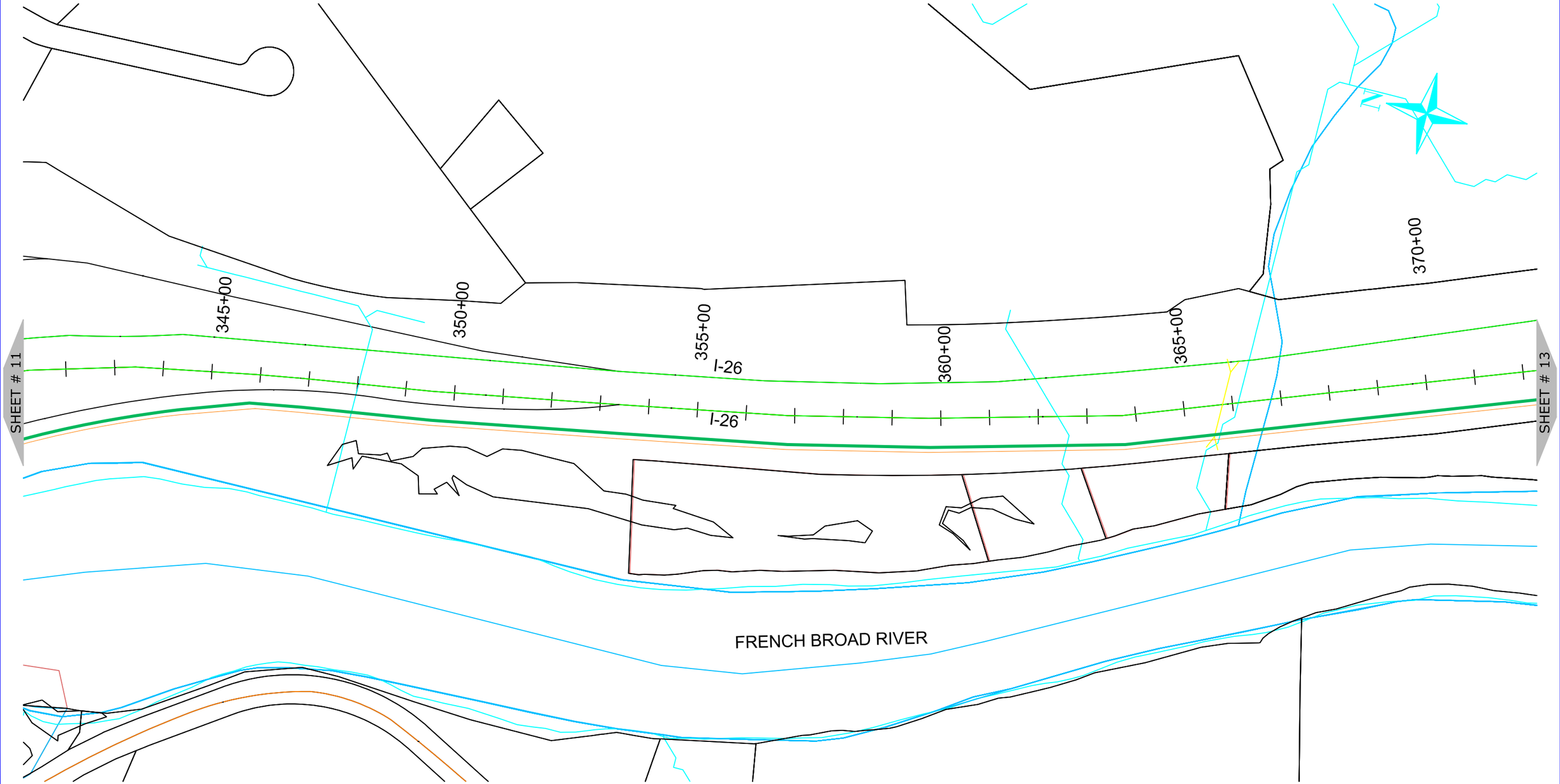
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 11

SHEET: 11

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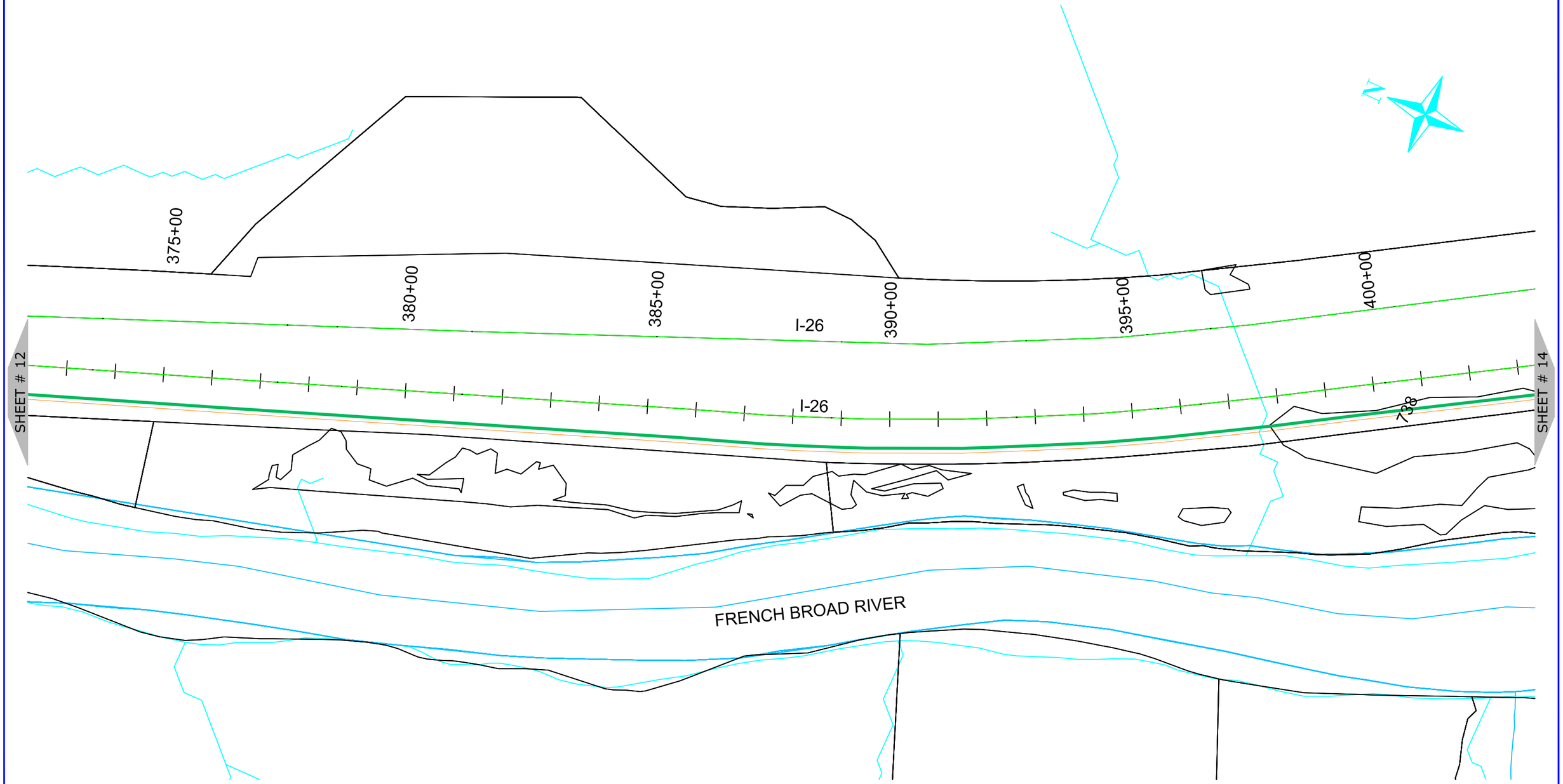
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PROJECT NAME: US-74

SHEET NAME: 12

SHEET: 12

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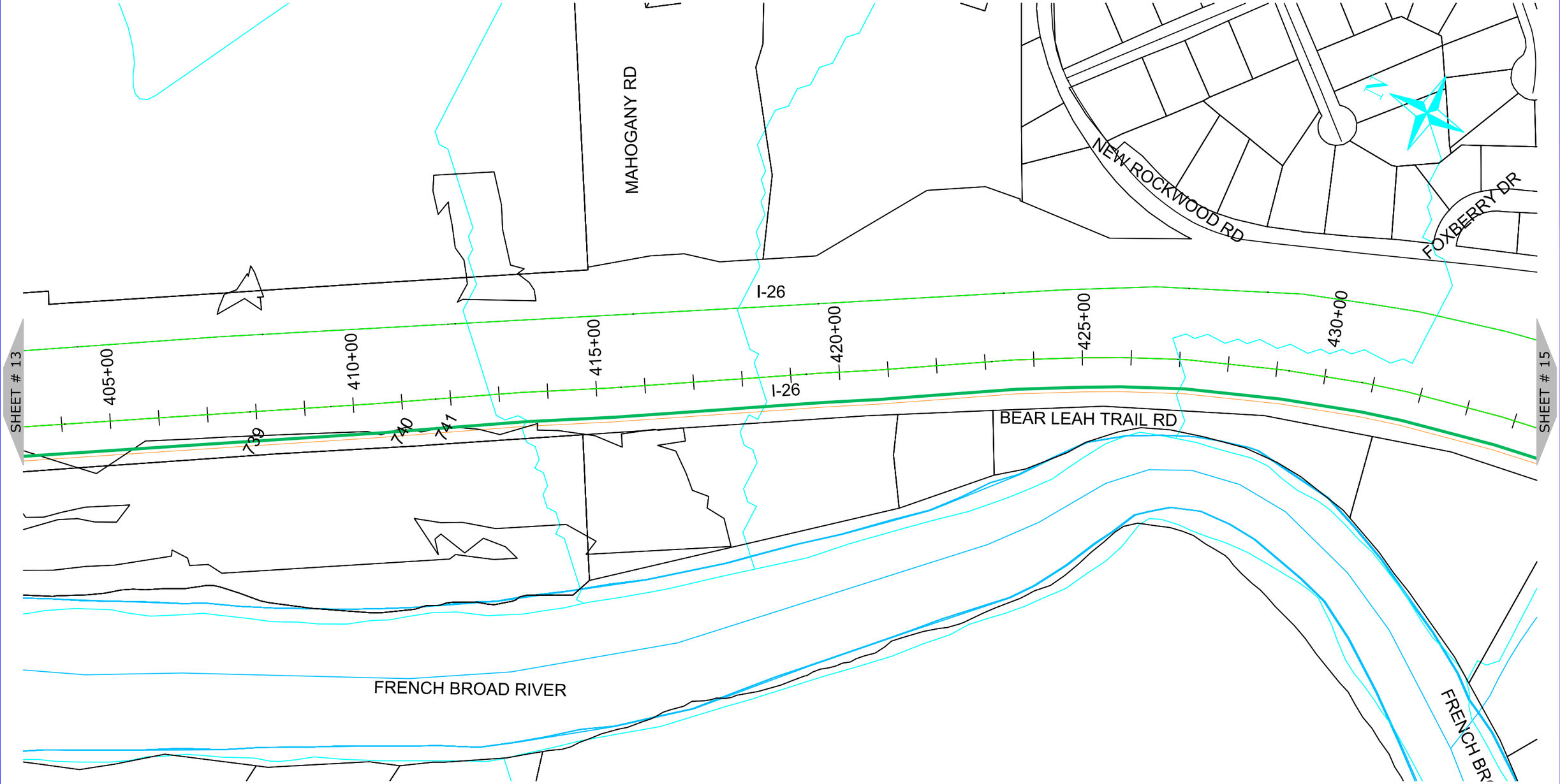
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PROJECT NAME: US-74

SHEET NAME: 13

SHEET: 13

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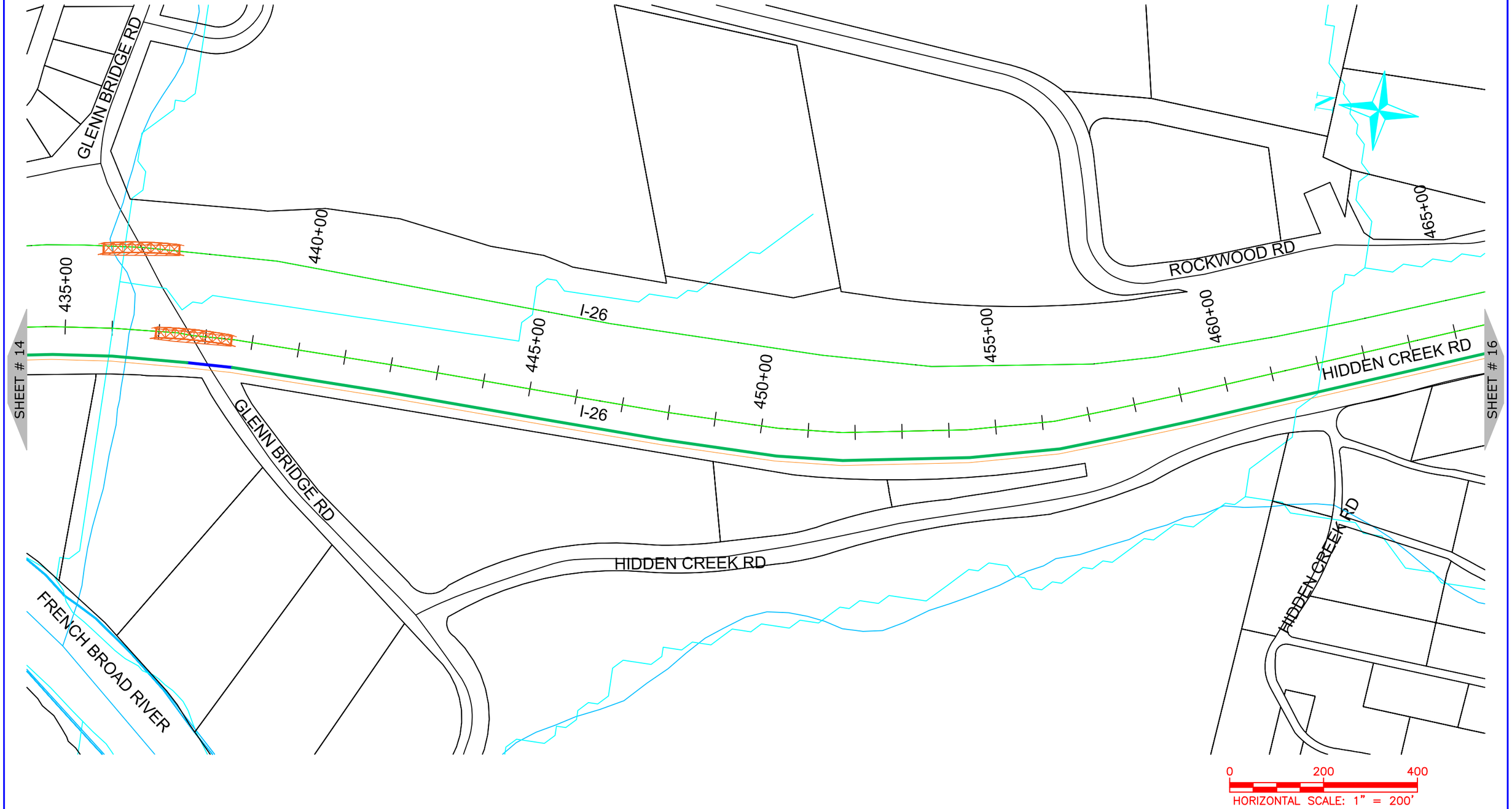
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PROJECT NAME: US-74

SHEET NAME: 14

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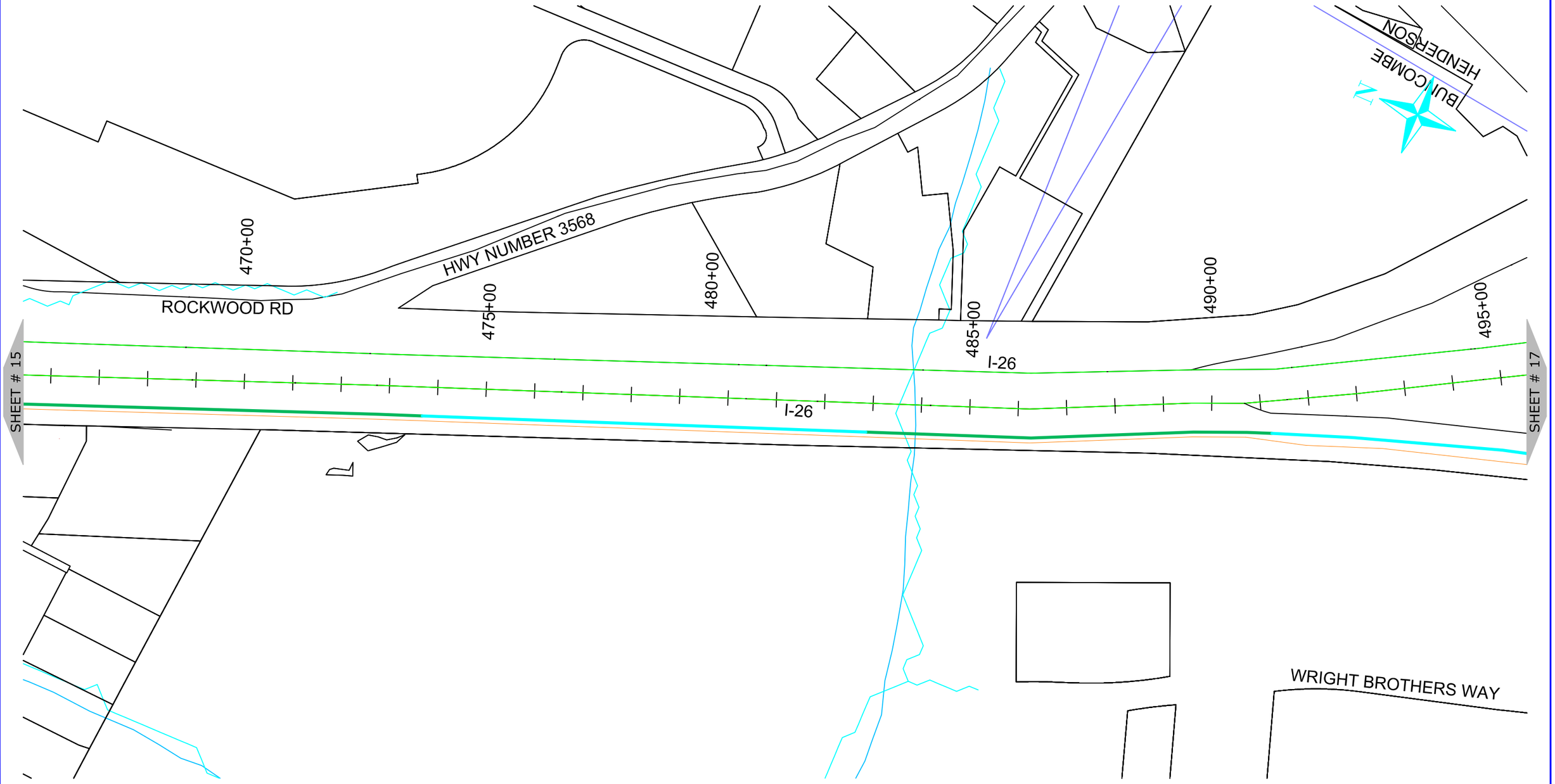
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PROJECT NAME: US-74

SHEET NAME: 15

SHEET: 15

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		BUNCOMBE
		HENDERSON

OWNER:

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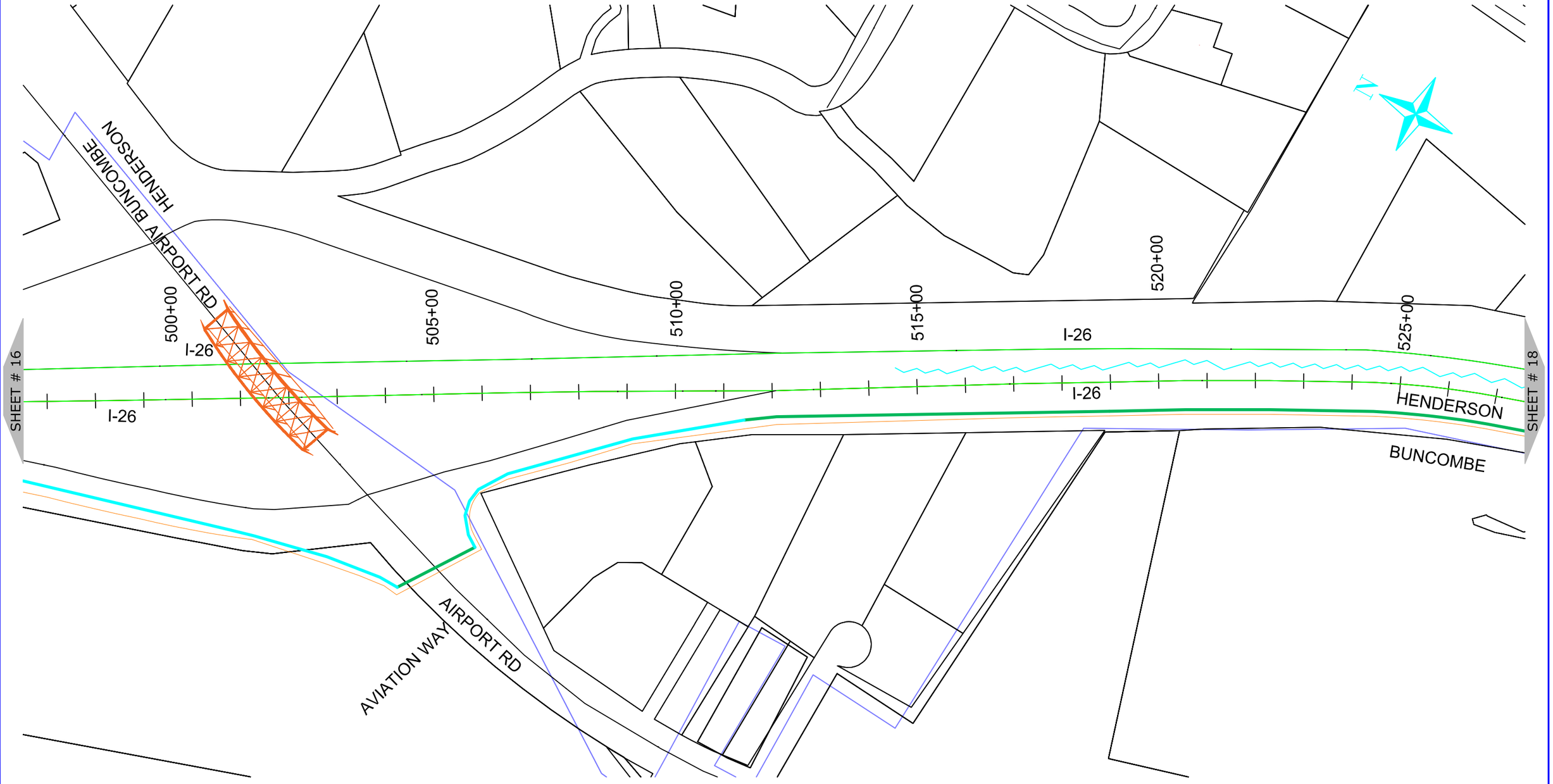
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
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SHEET:
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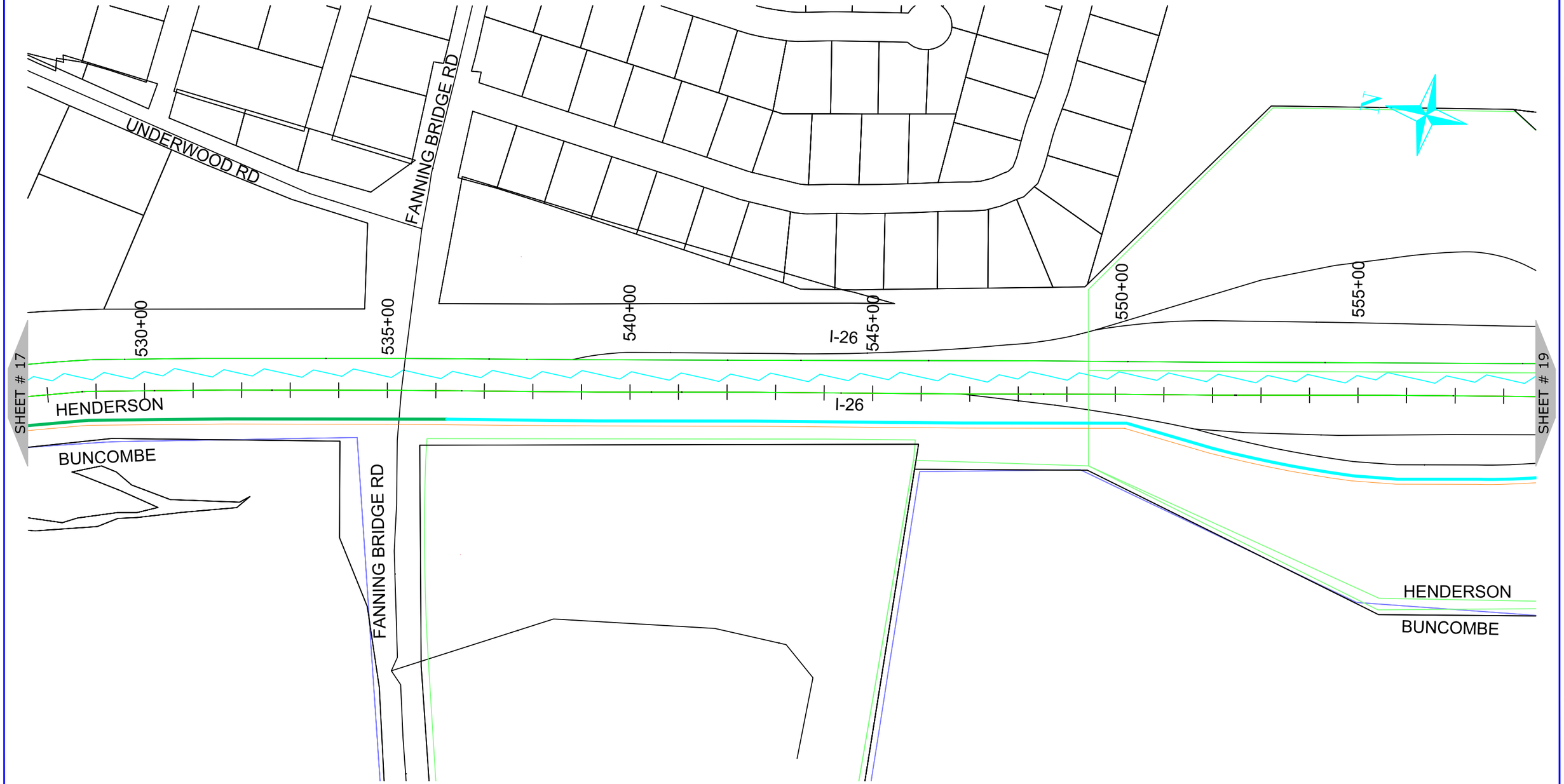
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DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 17

SHEET: 17

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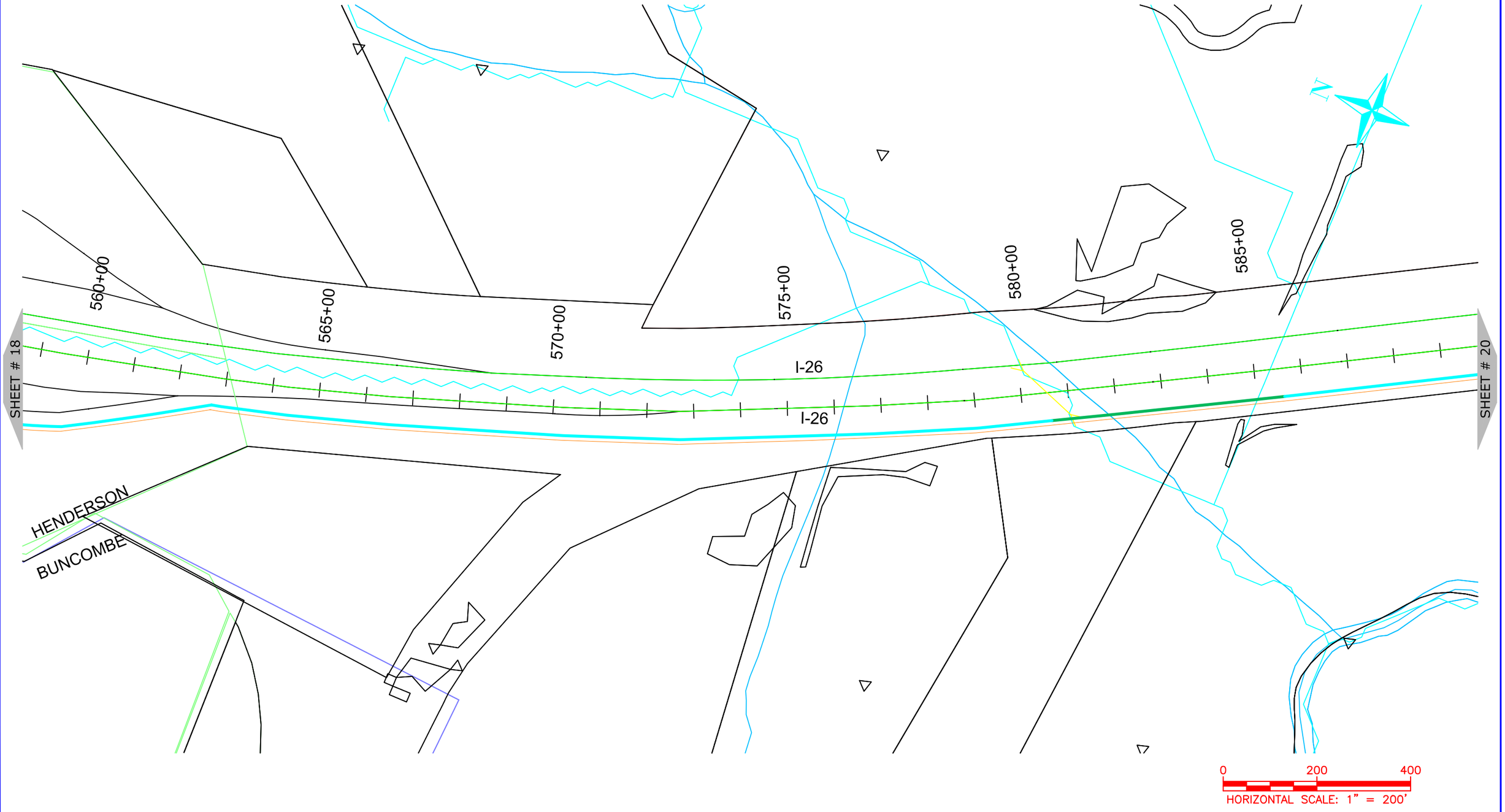
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
18

SHEET:
18

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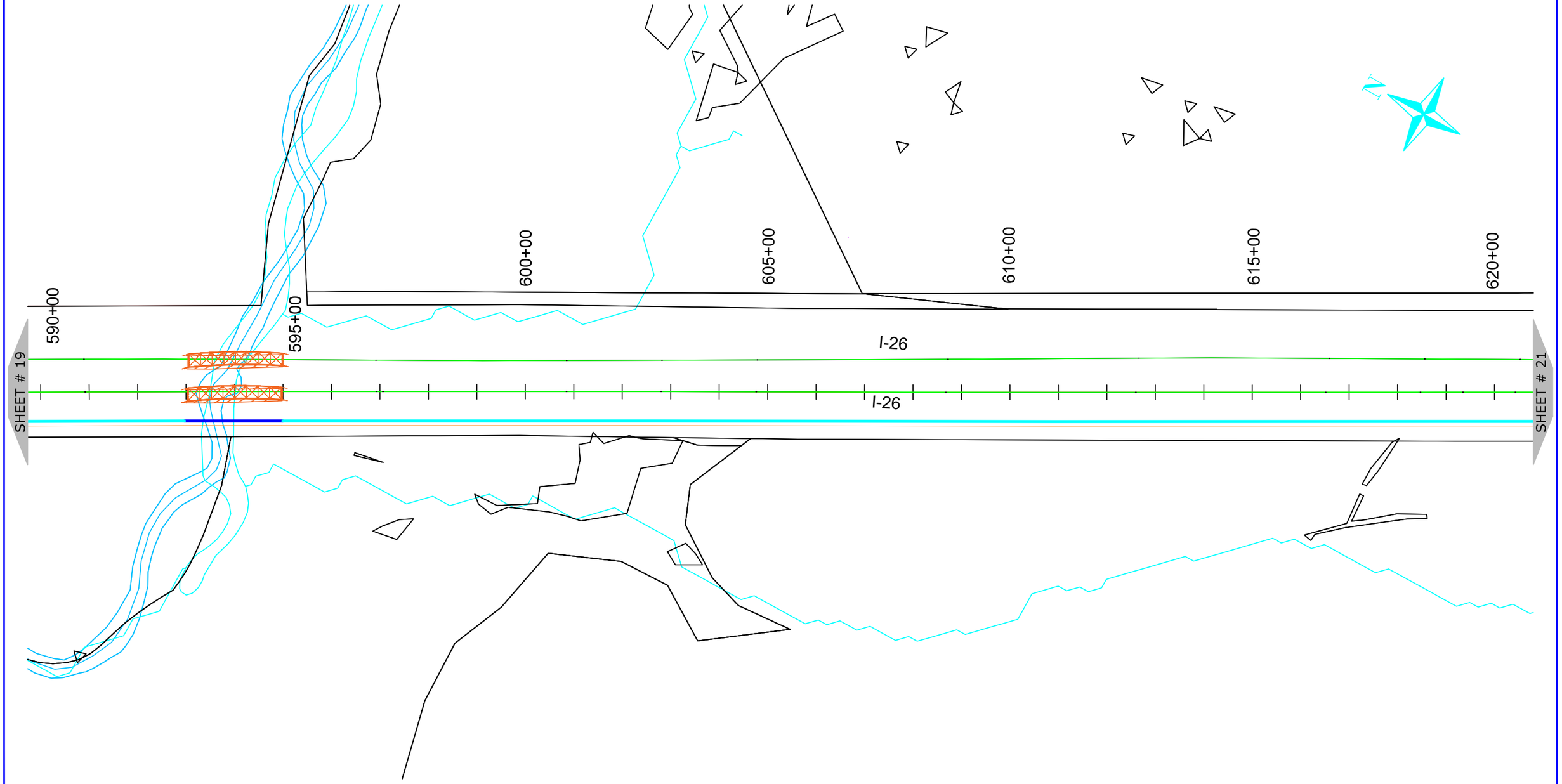
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PROJECT NAME: US-74

SHEET NAME: 19

SHEET: 19

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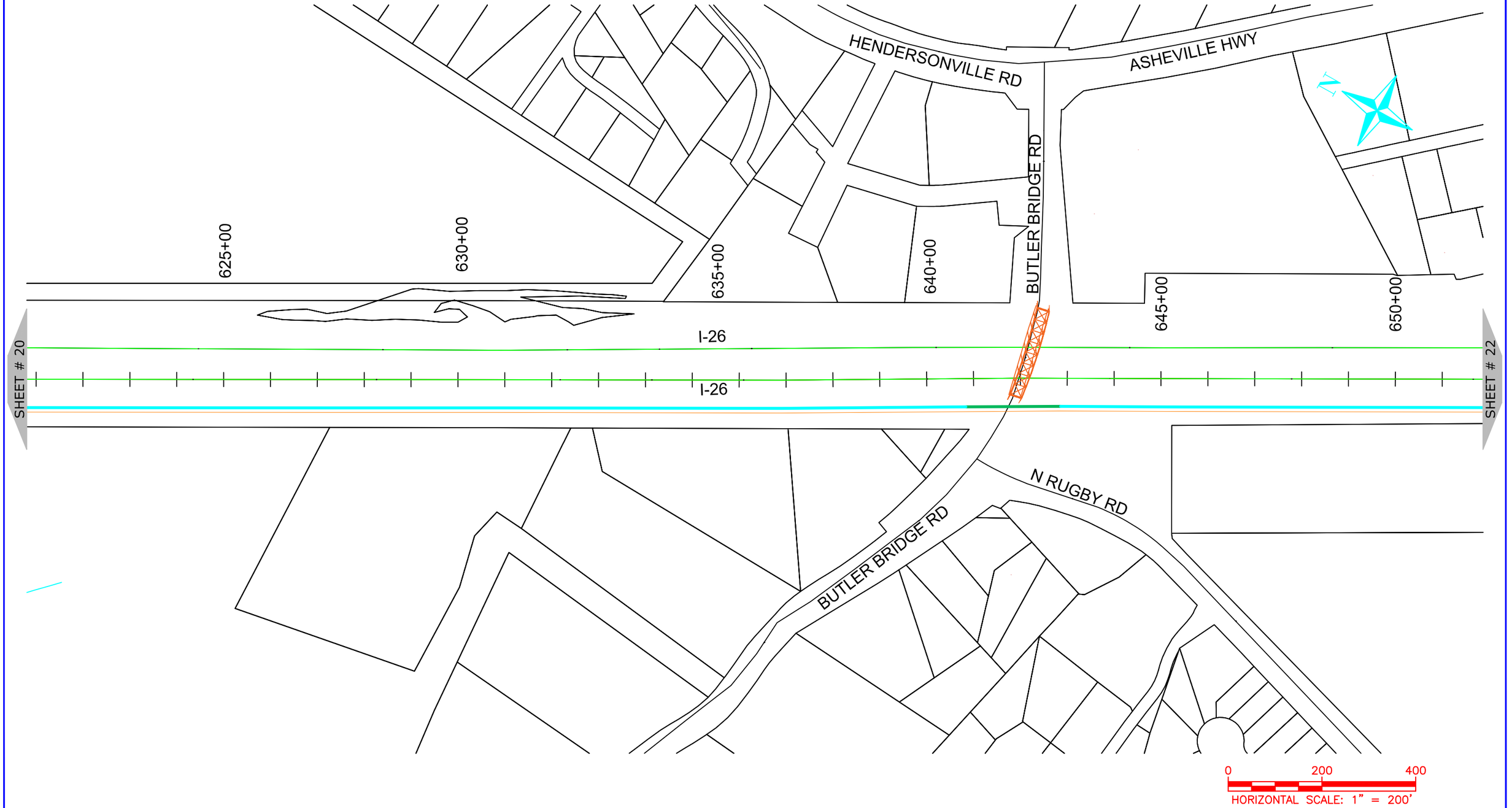
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DATE:	12-05-2021
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PROJECT NAME: US-74

SHEET NAME: 20

SHEET: 20

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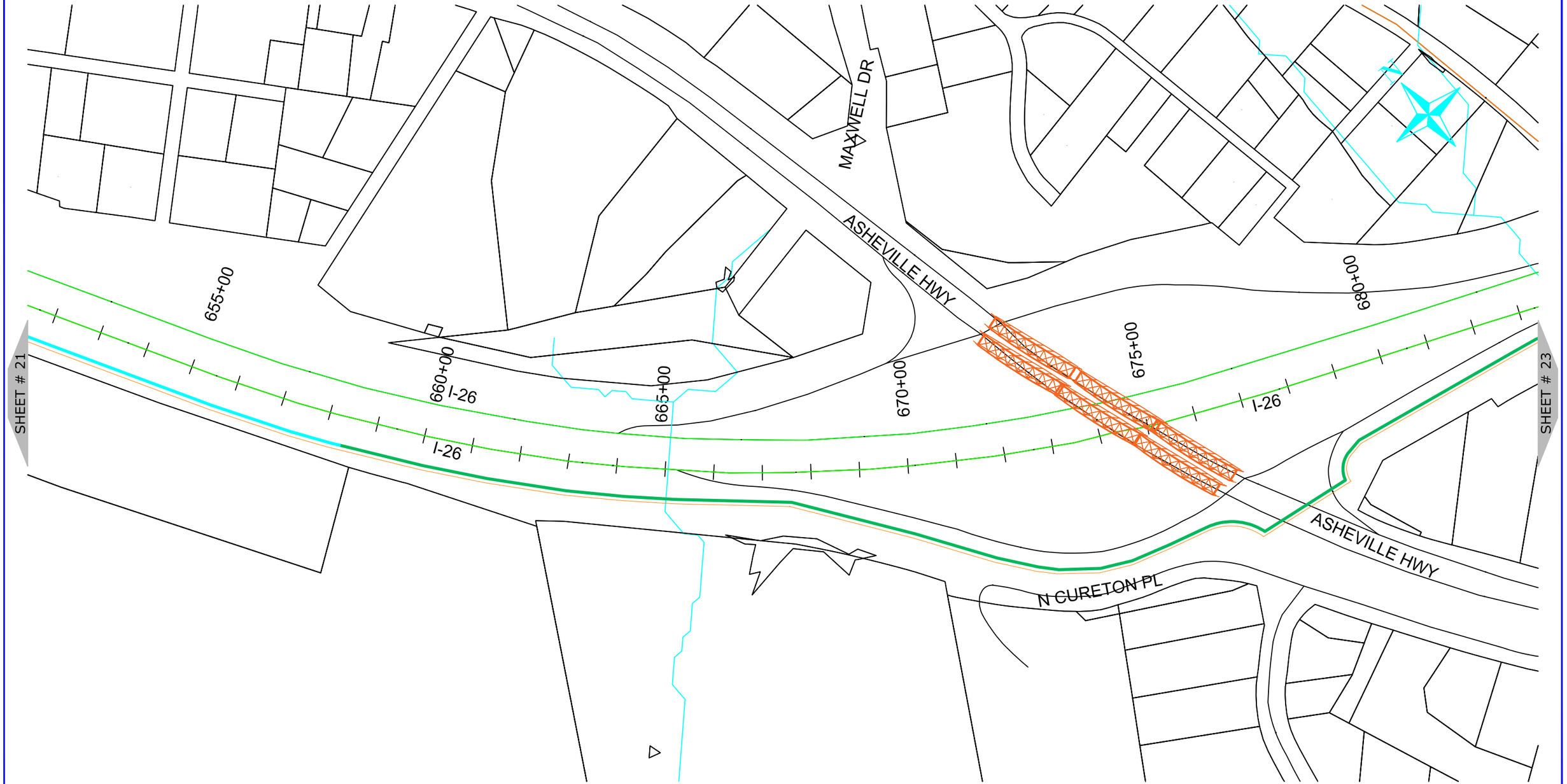
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PROJECT NAME: US-74

SHEET NAME: 21

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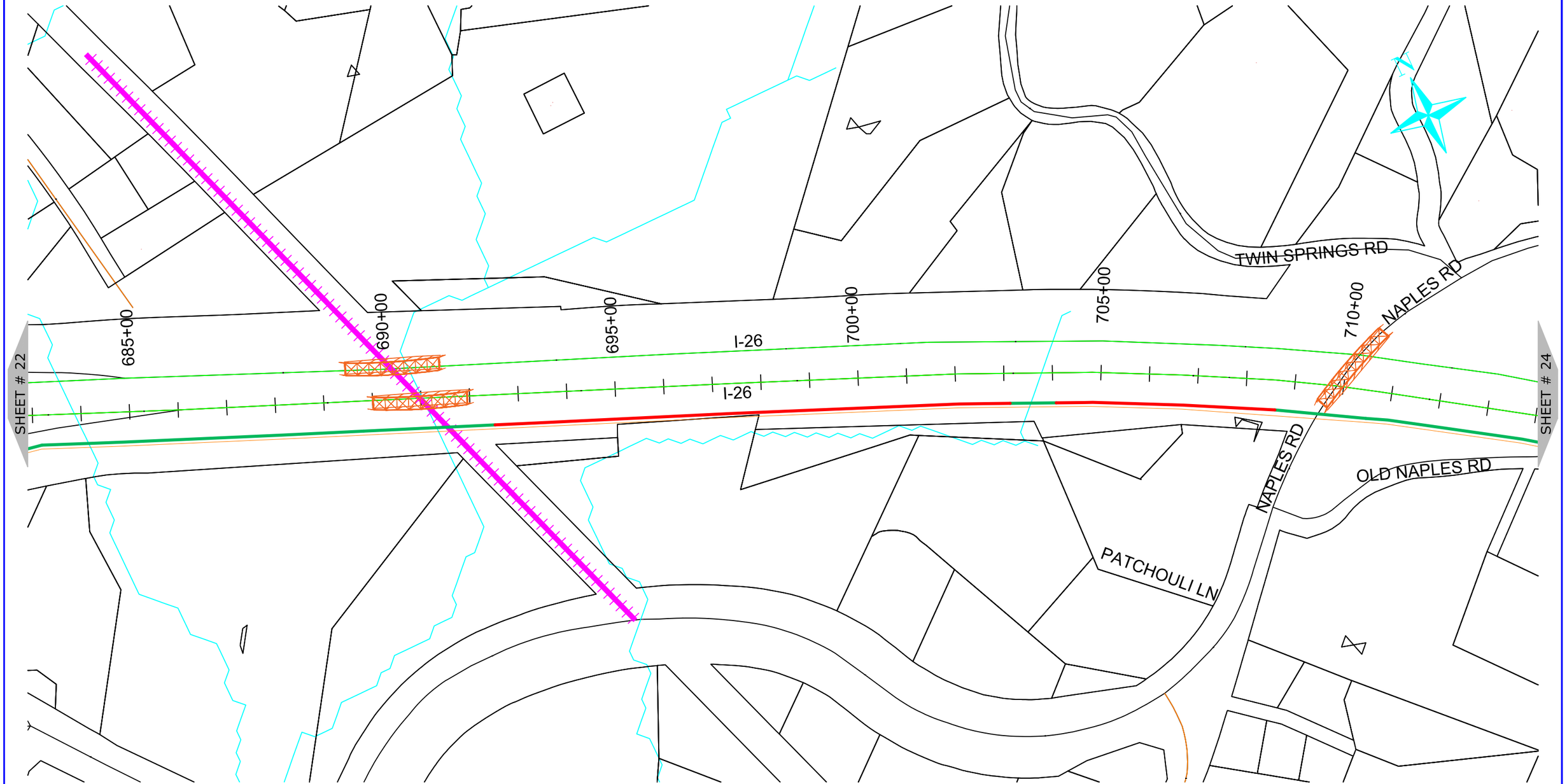
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PROJECT NAME: US-74

SHEET NAME: 22

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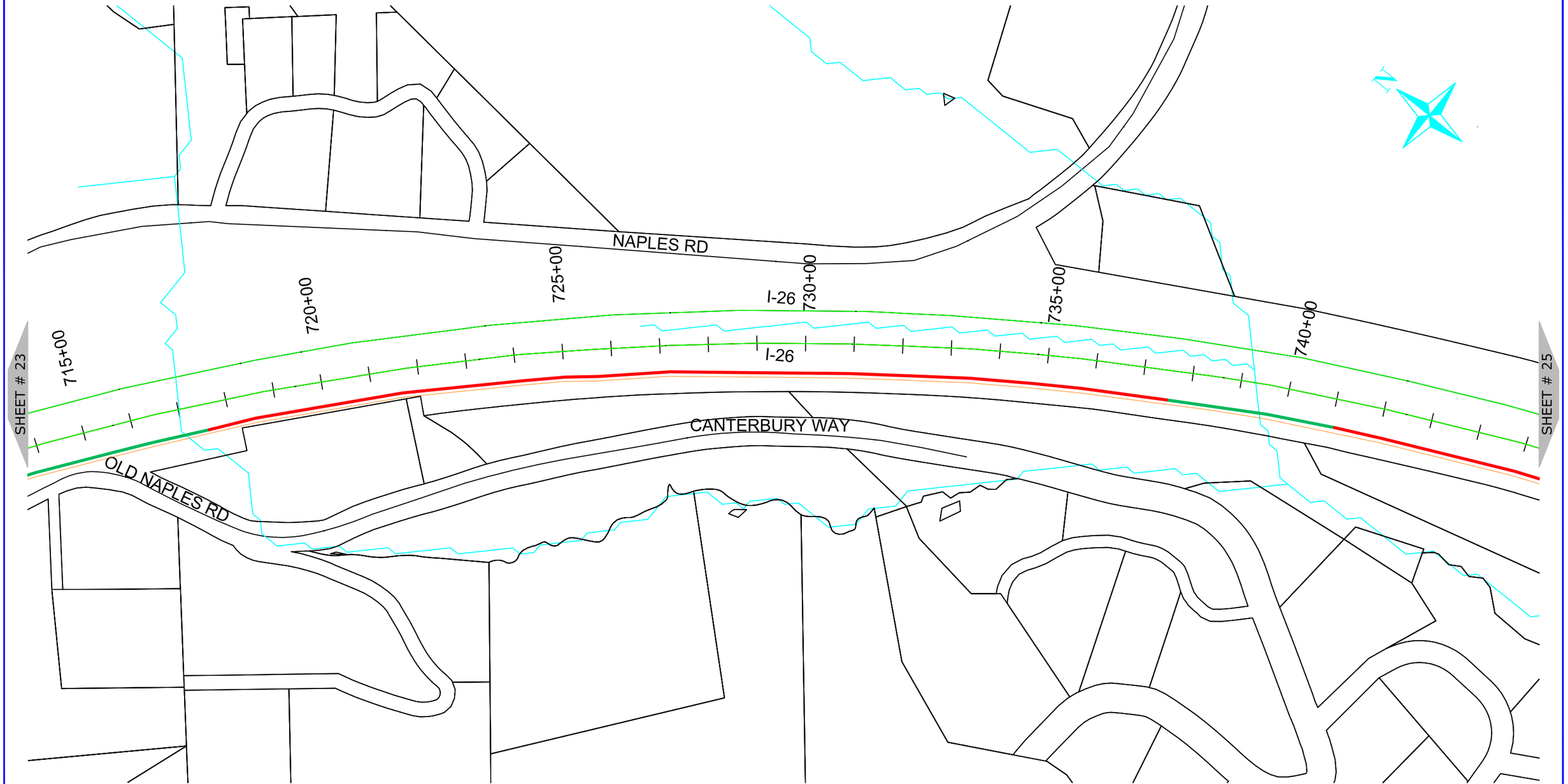
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PROJECT NAME:
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SHEET NAME:
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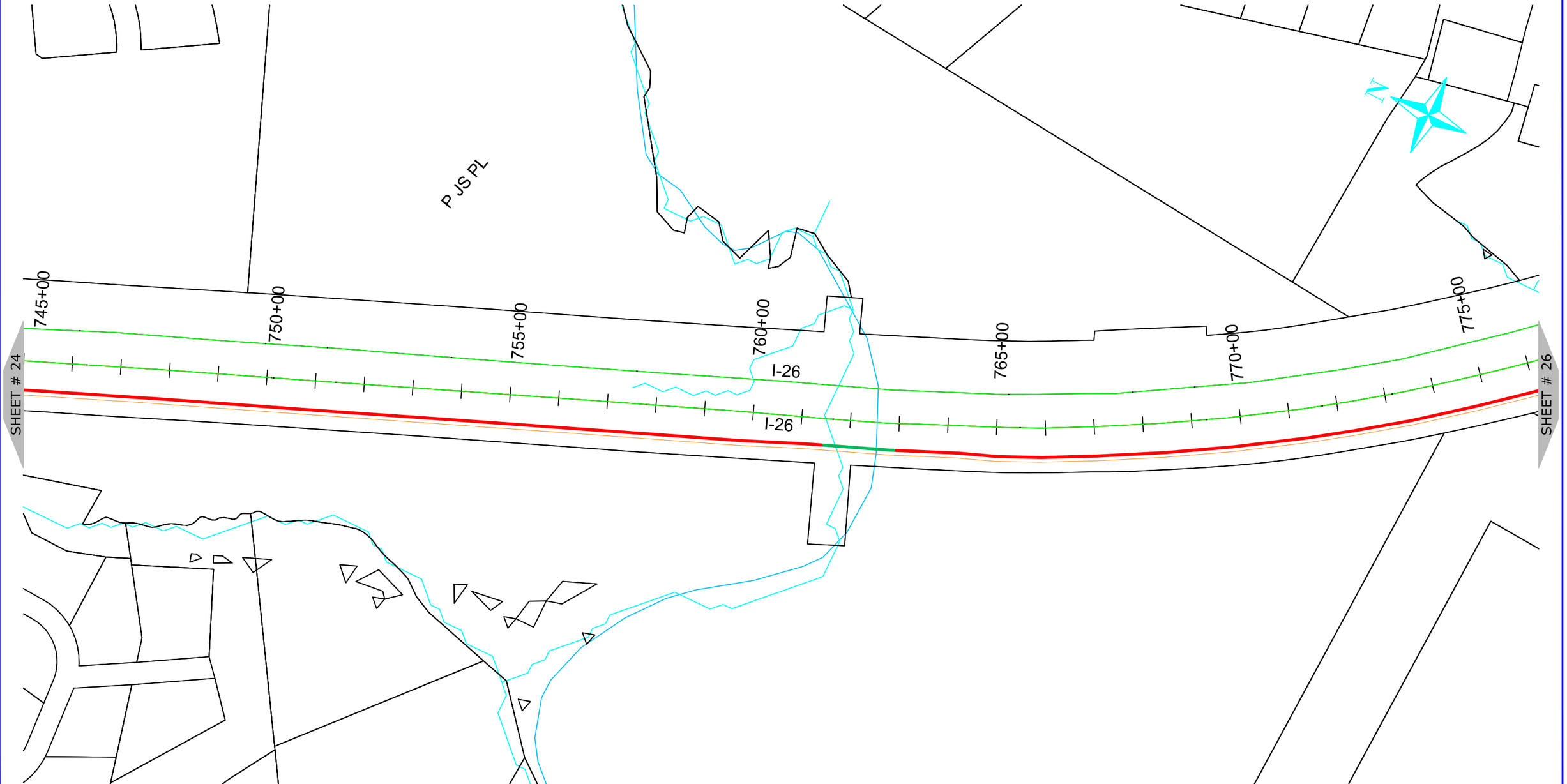
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PROJECT NAME: US-74

SHEET NAME: 24

SHEET: 24

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 25

SHEET: 25

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PROJECT NAME: US-74

SHEET NAME: 26

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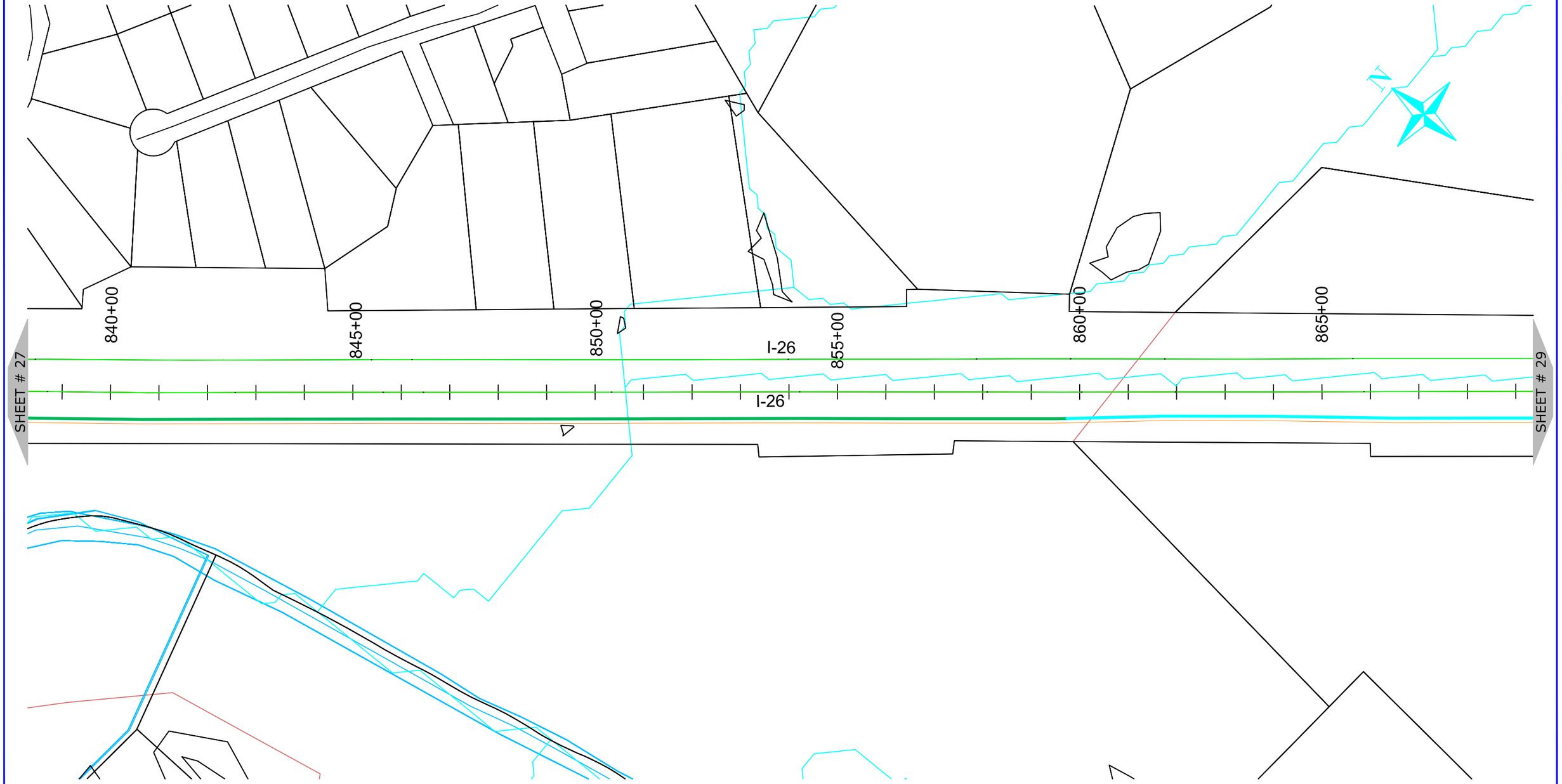
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PROJECT NAME:
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SHEET NAME:
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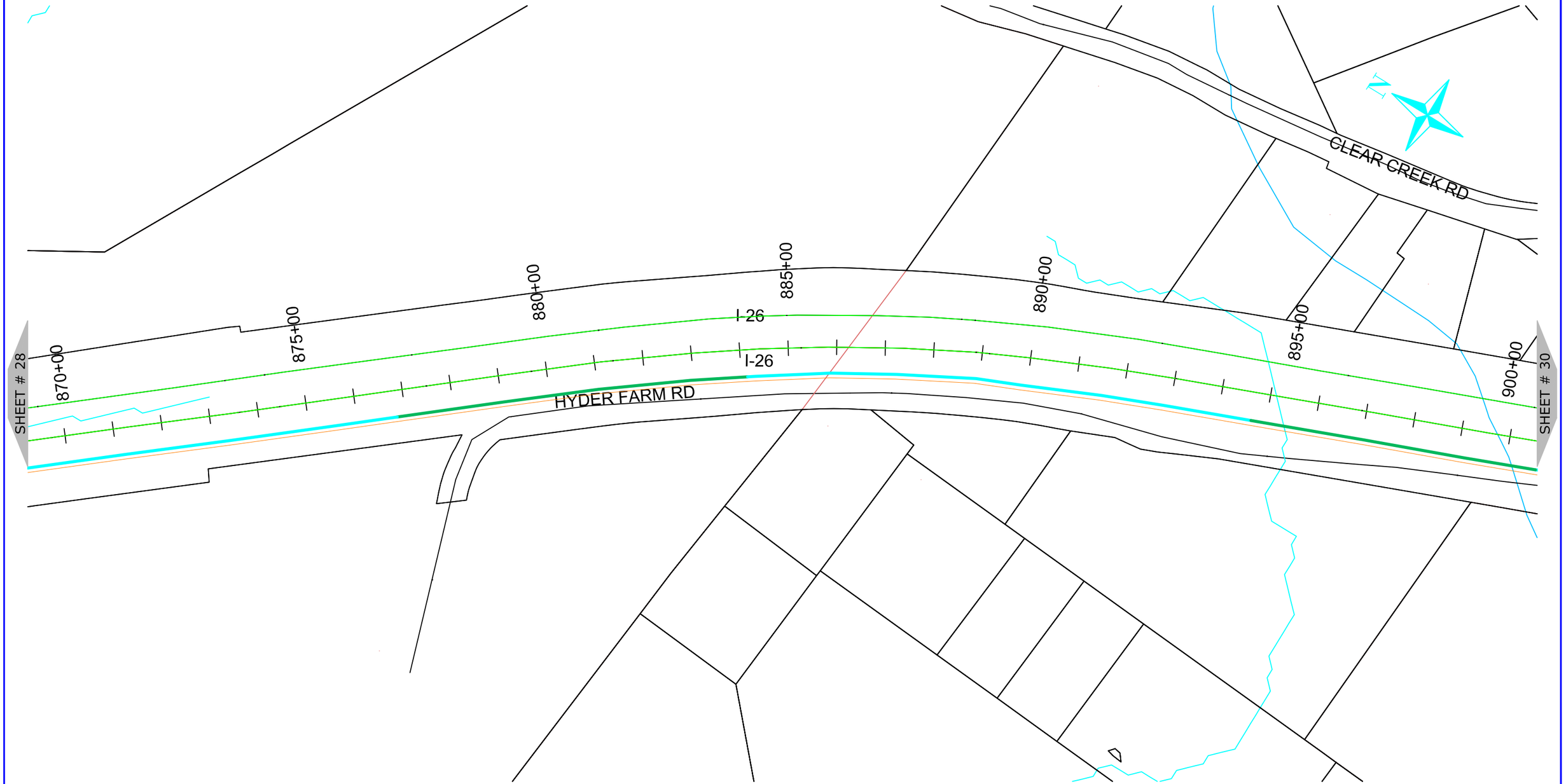
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PROJECT NAME:
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SHEET NAME:
28

SHEET:
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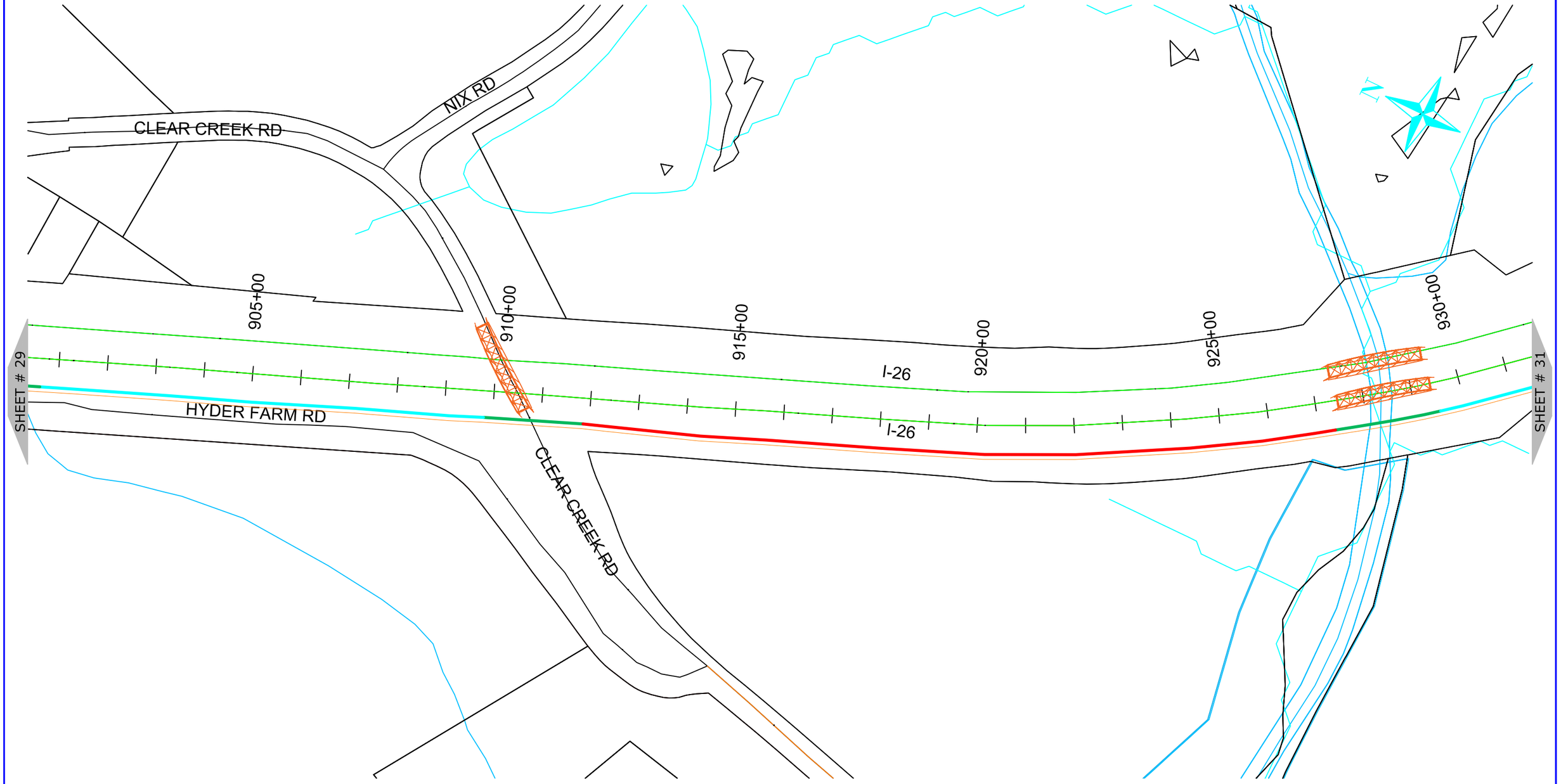
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PROJECT NAME: US-74

SHEET NAME: 29

SHEET: 29

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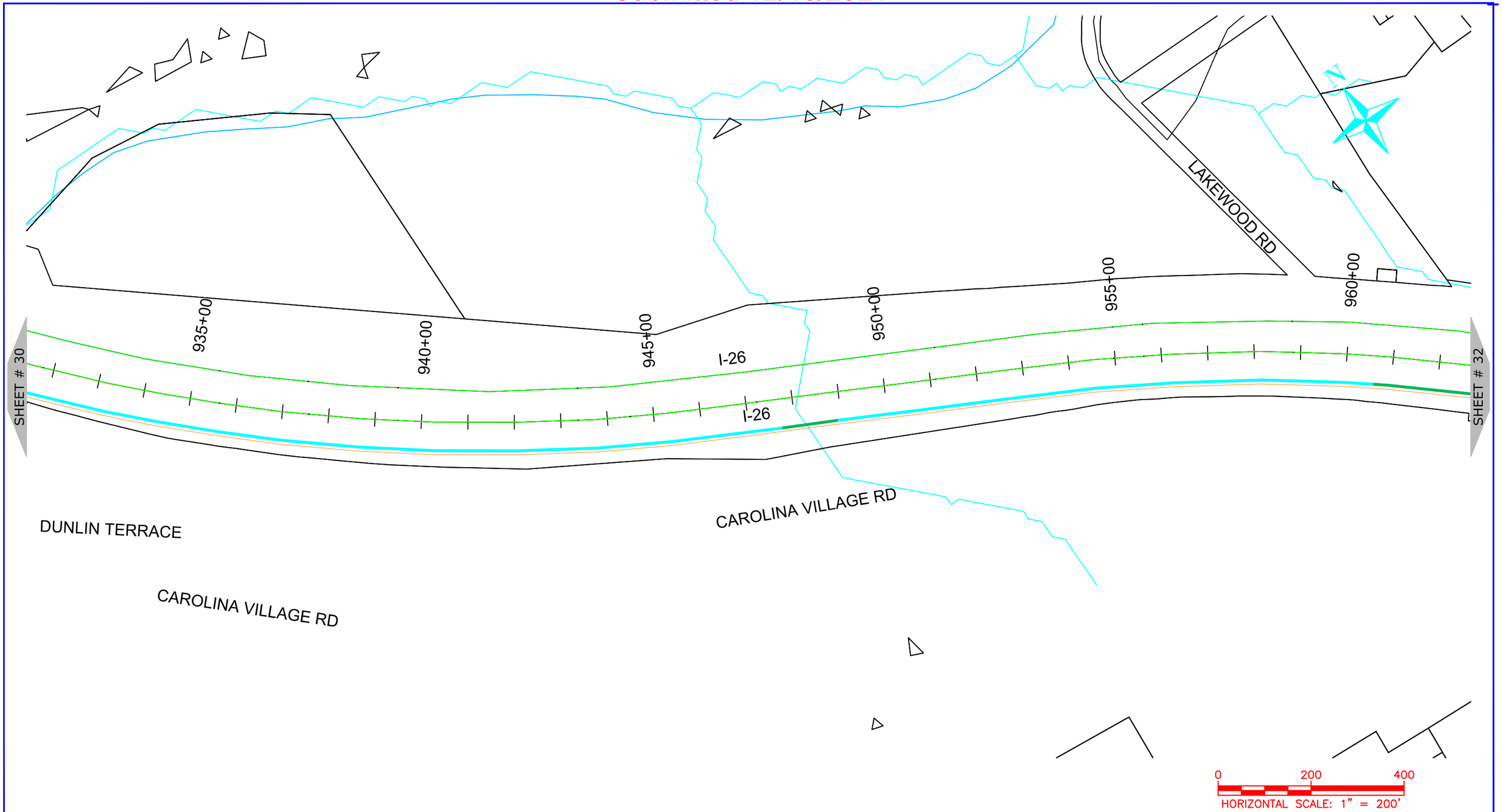
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PROJECT NAME: US-74

SHEET NAME: 30

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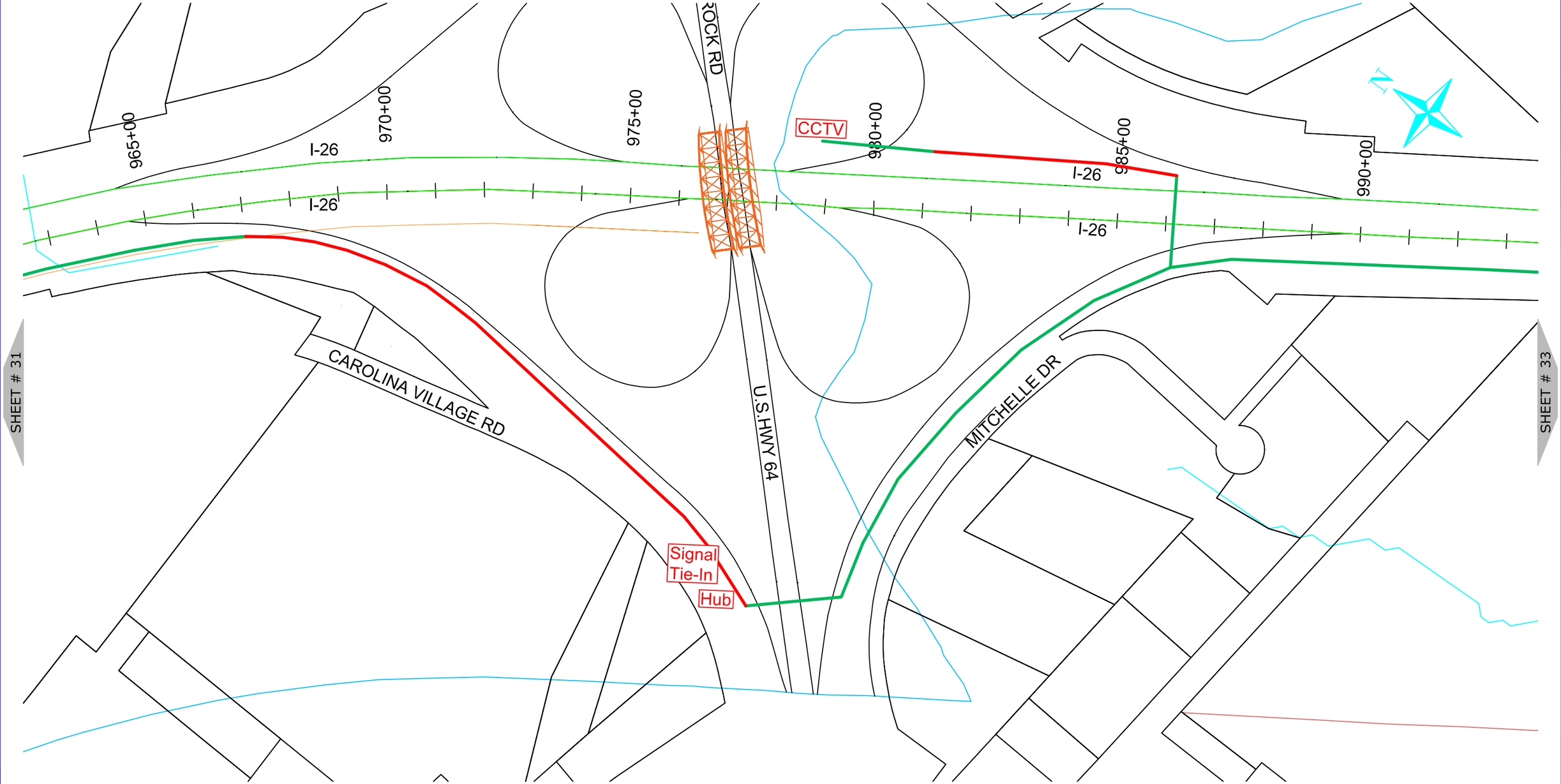
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PROJECT NAME: US-74

SHEET NAME: 31

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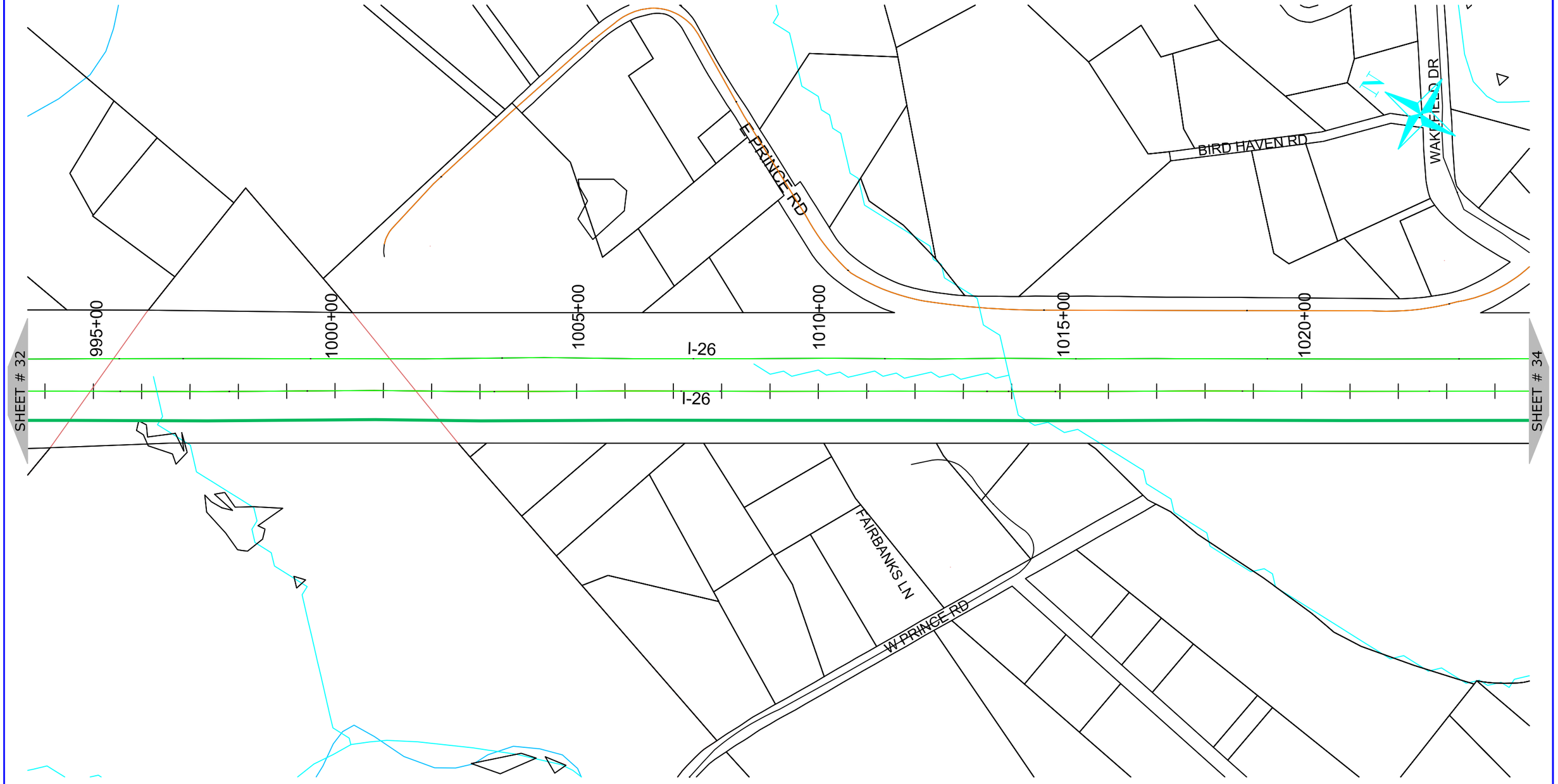
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 32

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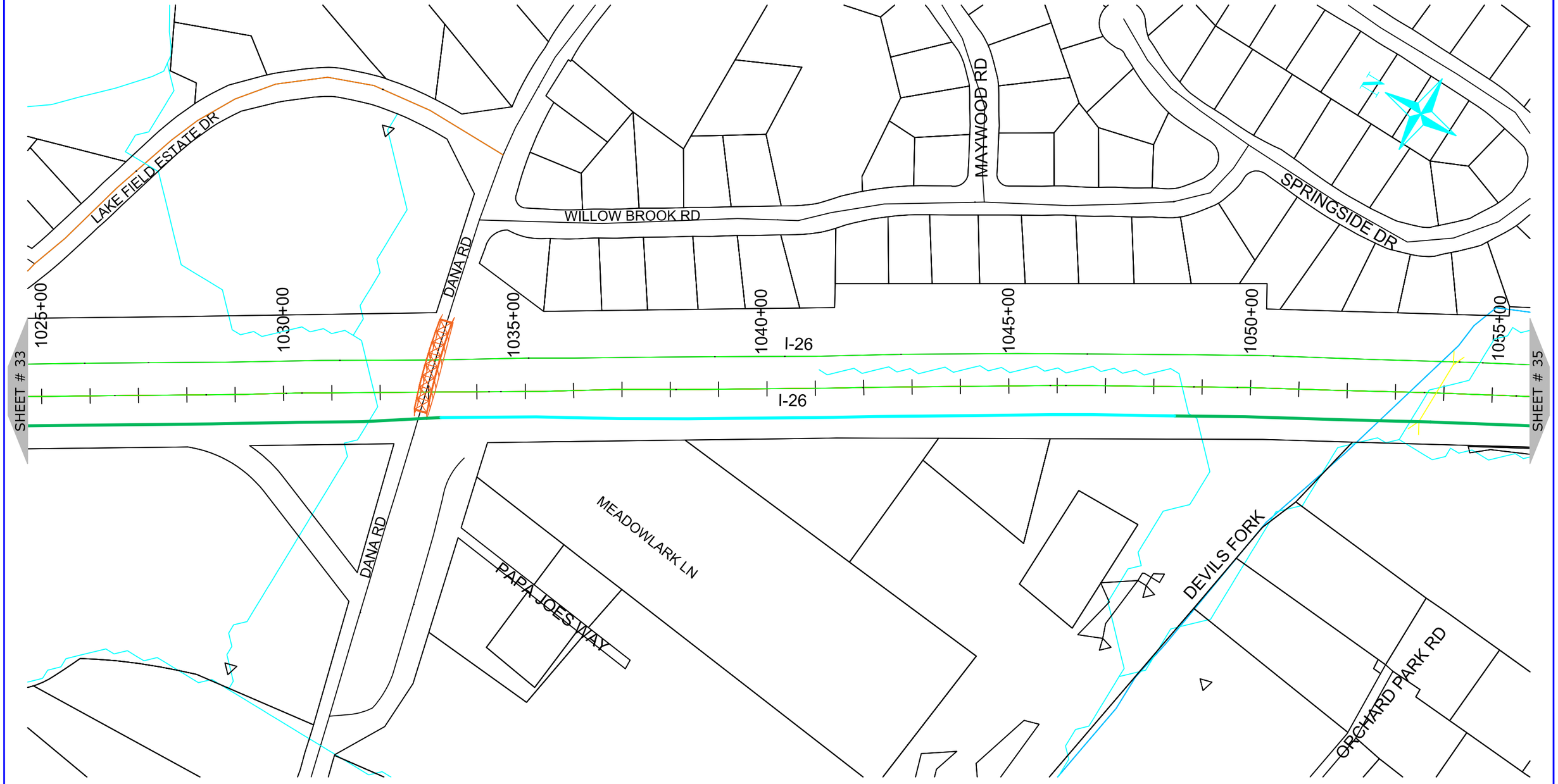
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PROJECT NAME:
US-74

SHEET NAME:
33

SHEET:
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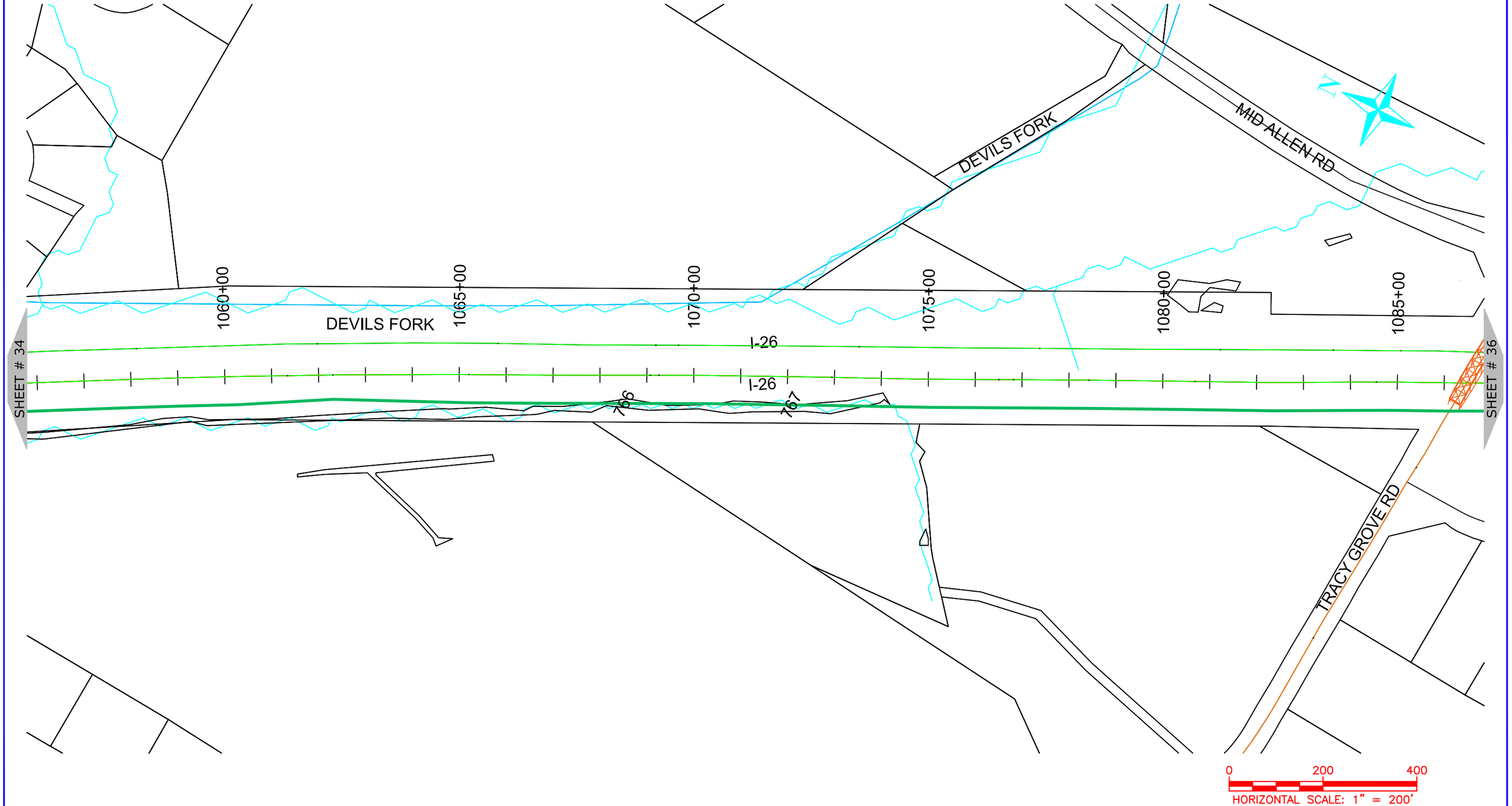
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PROJECT NAME: US-74

SHEET NAME: 34

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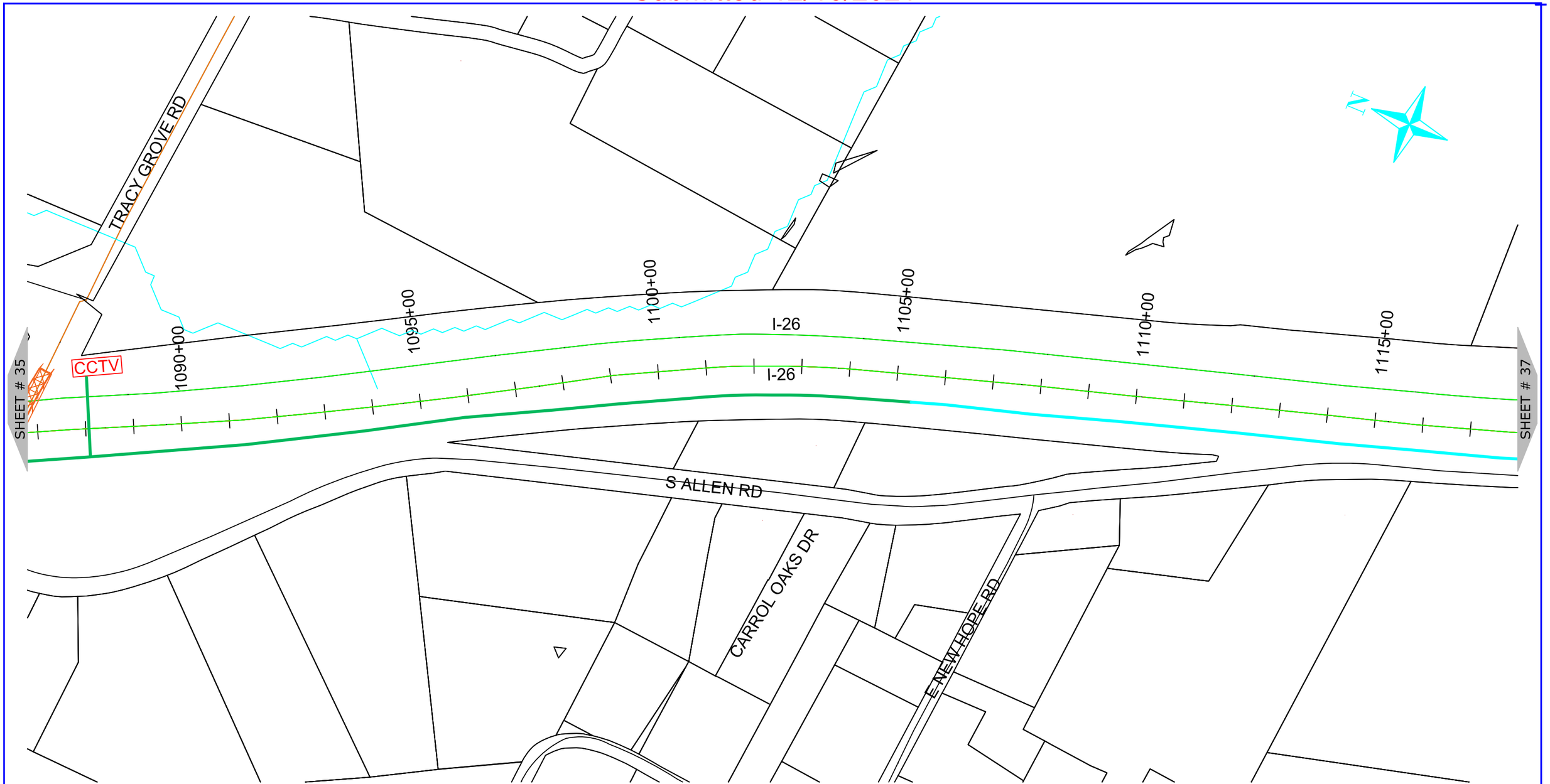
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PROJECT NAME:
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SHEET NAME:
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SHEET:
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PROJECT NAME:
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SHEET NAME:
36

SHEET:
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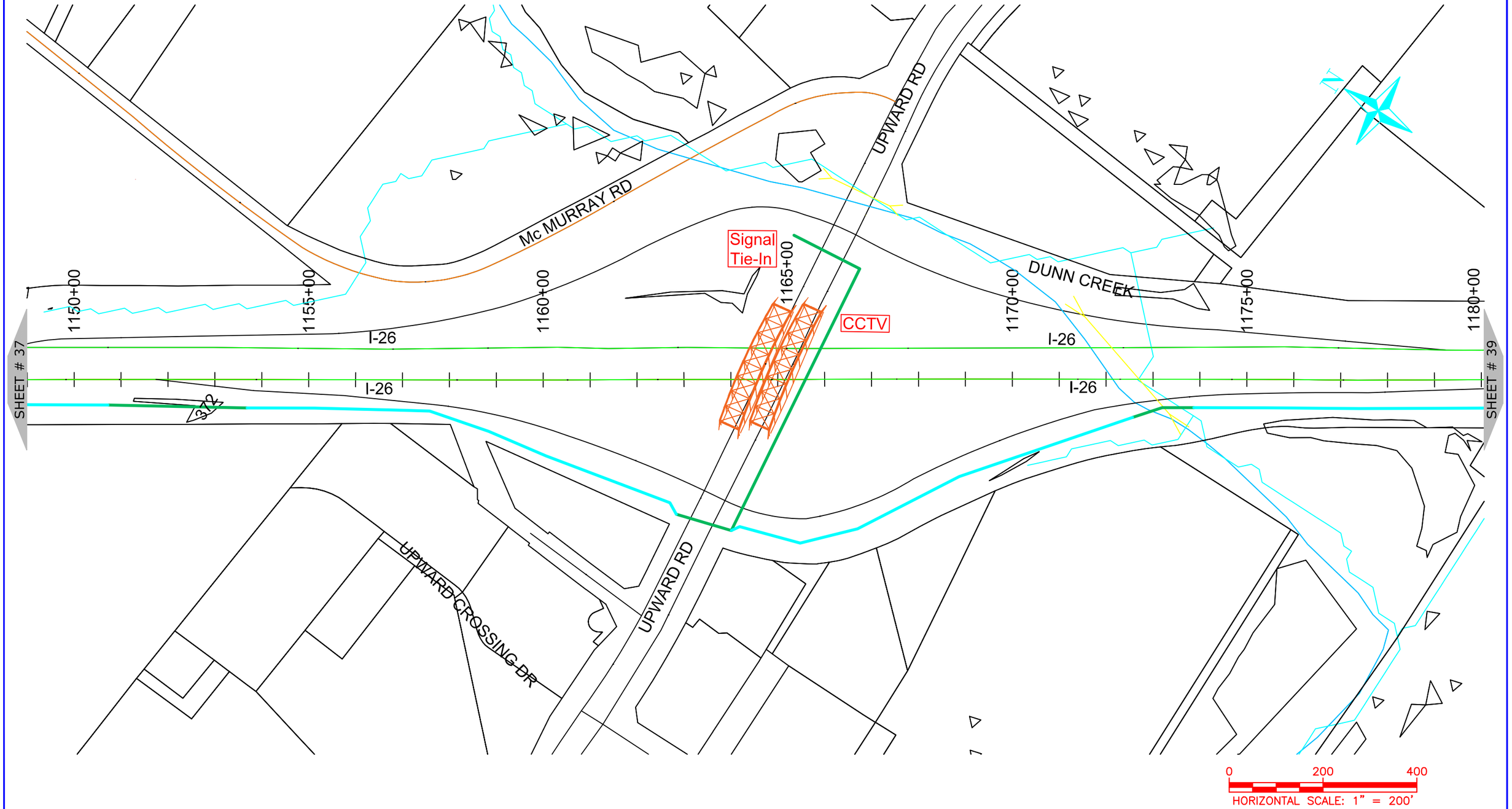
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 37

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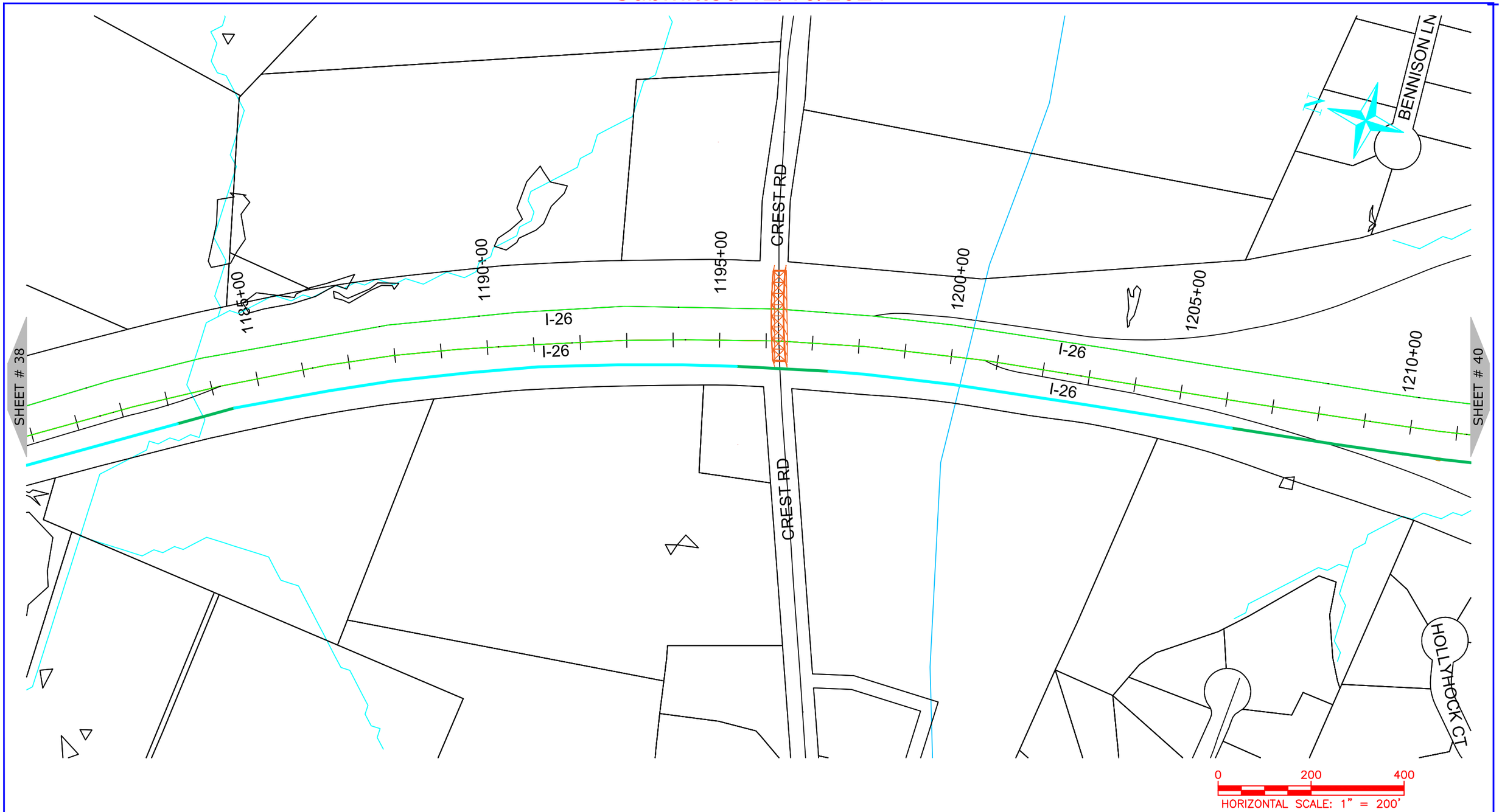
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 38

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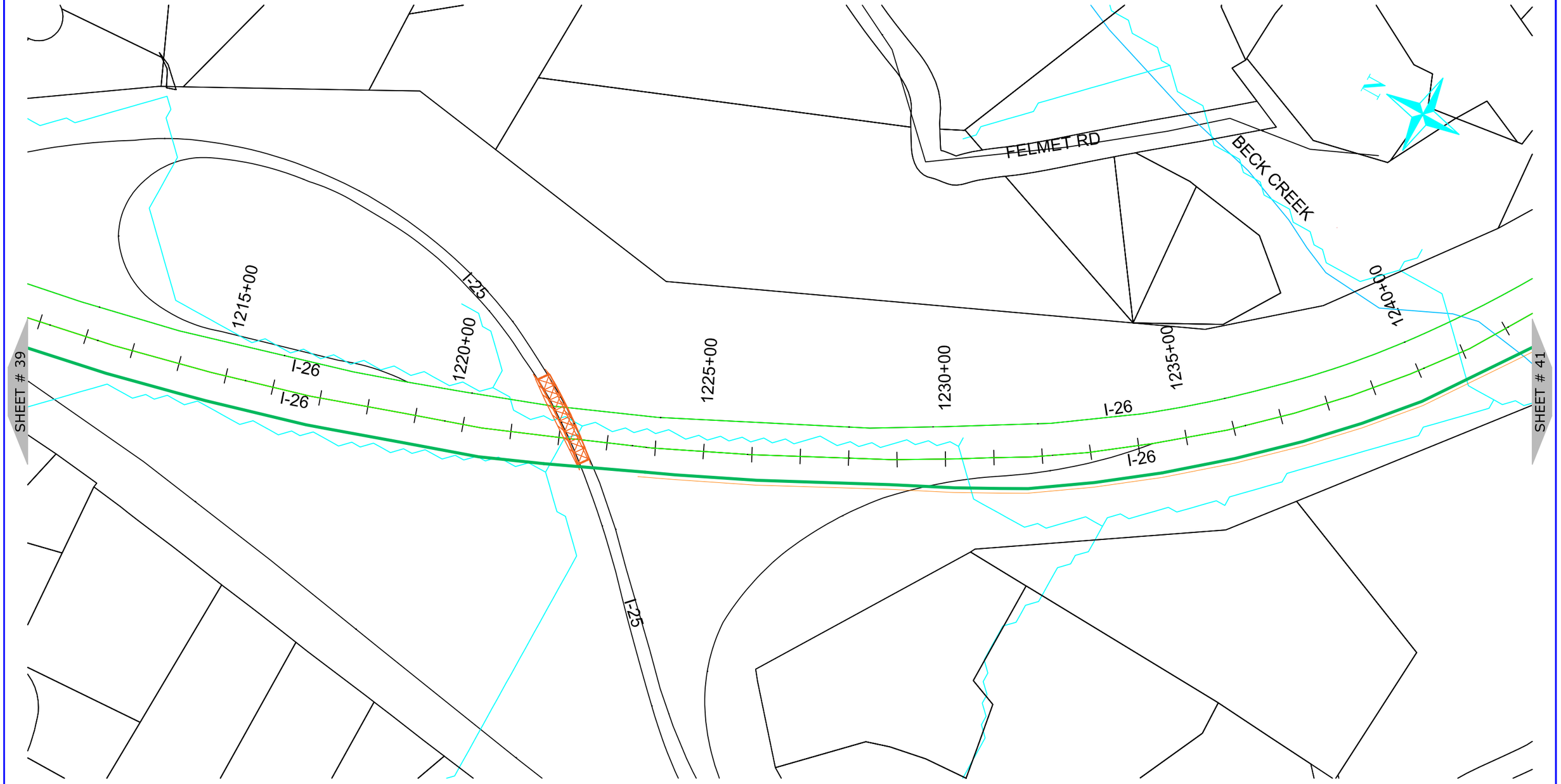
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 39

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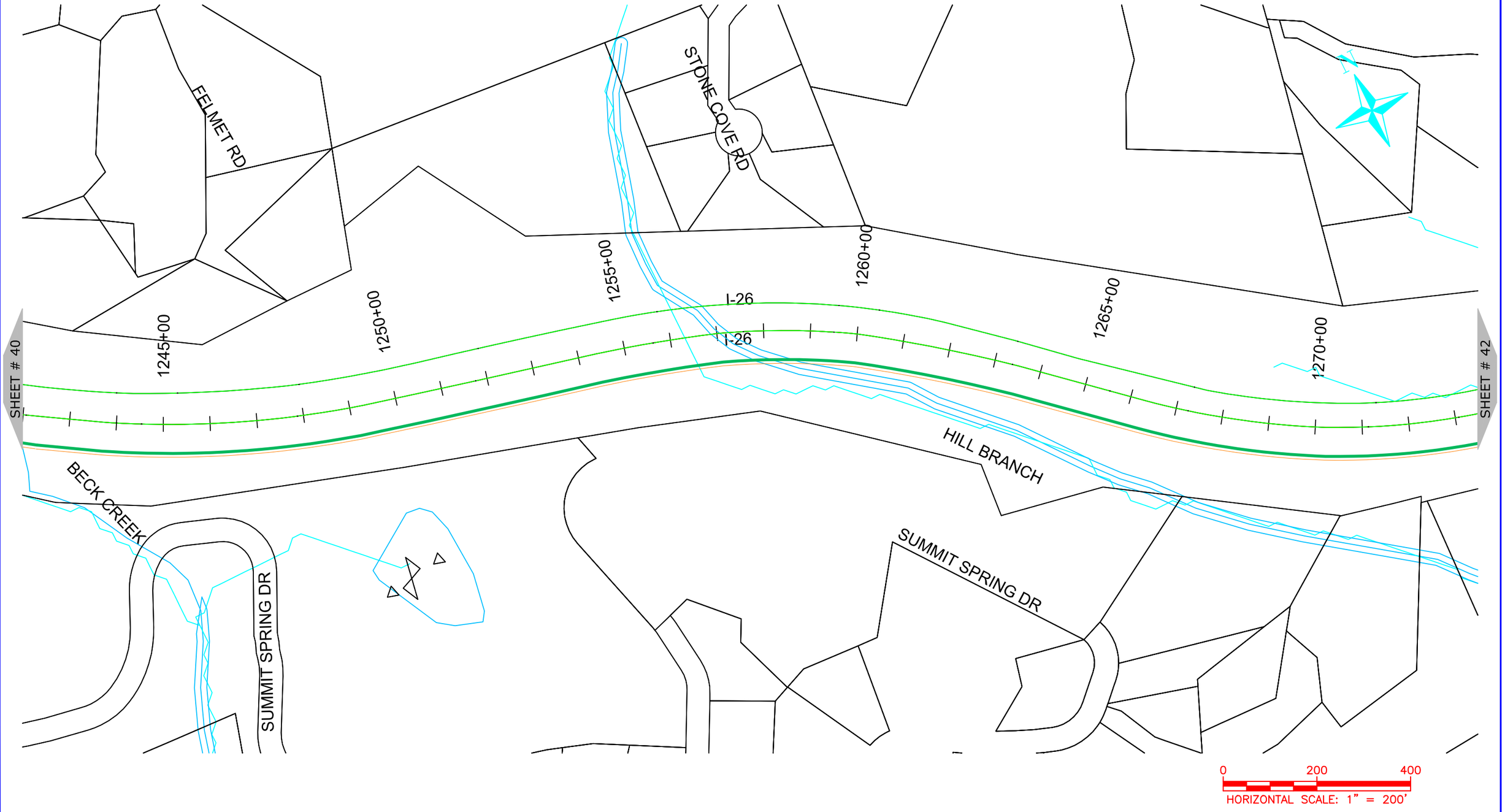
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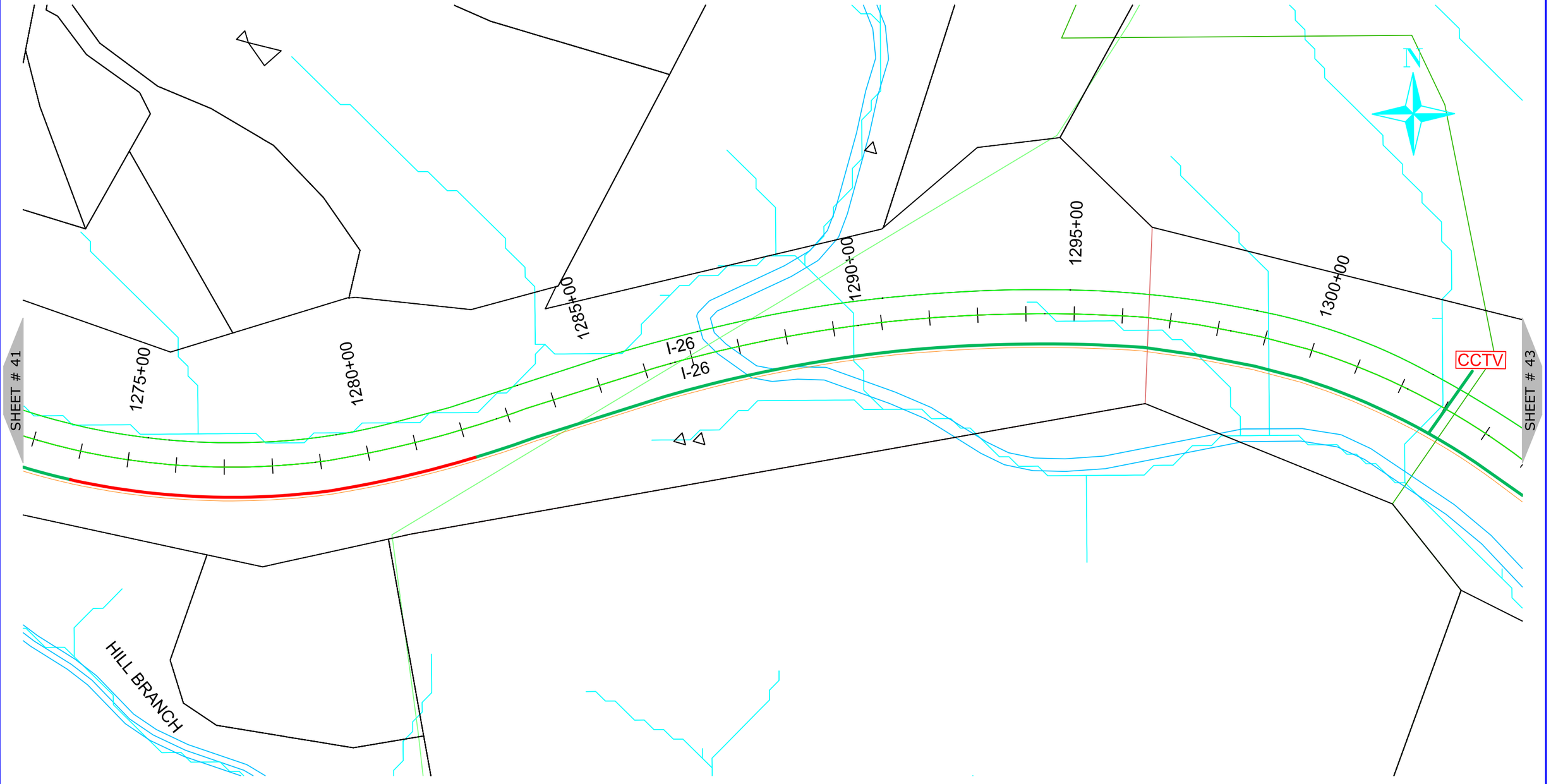
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 41

SHEET: 41

Submitted 12/16/2021



ONUG COMMUNICATIONS
3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
		HENDERSON

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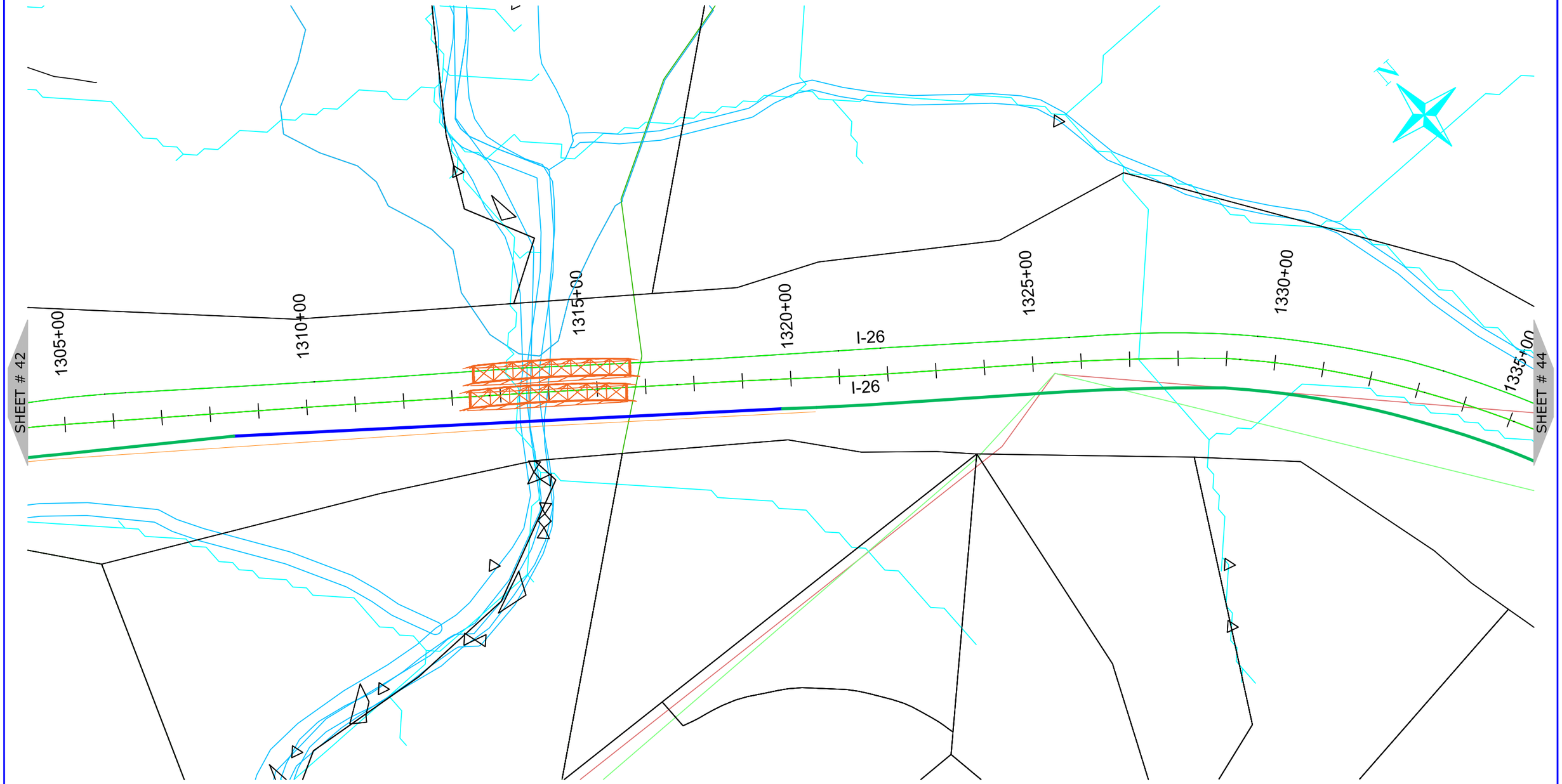
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 42

SHEET: 42

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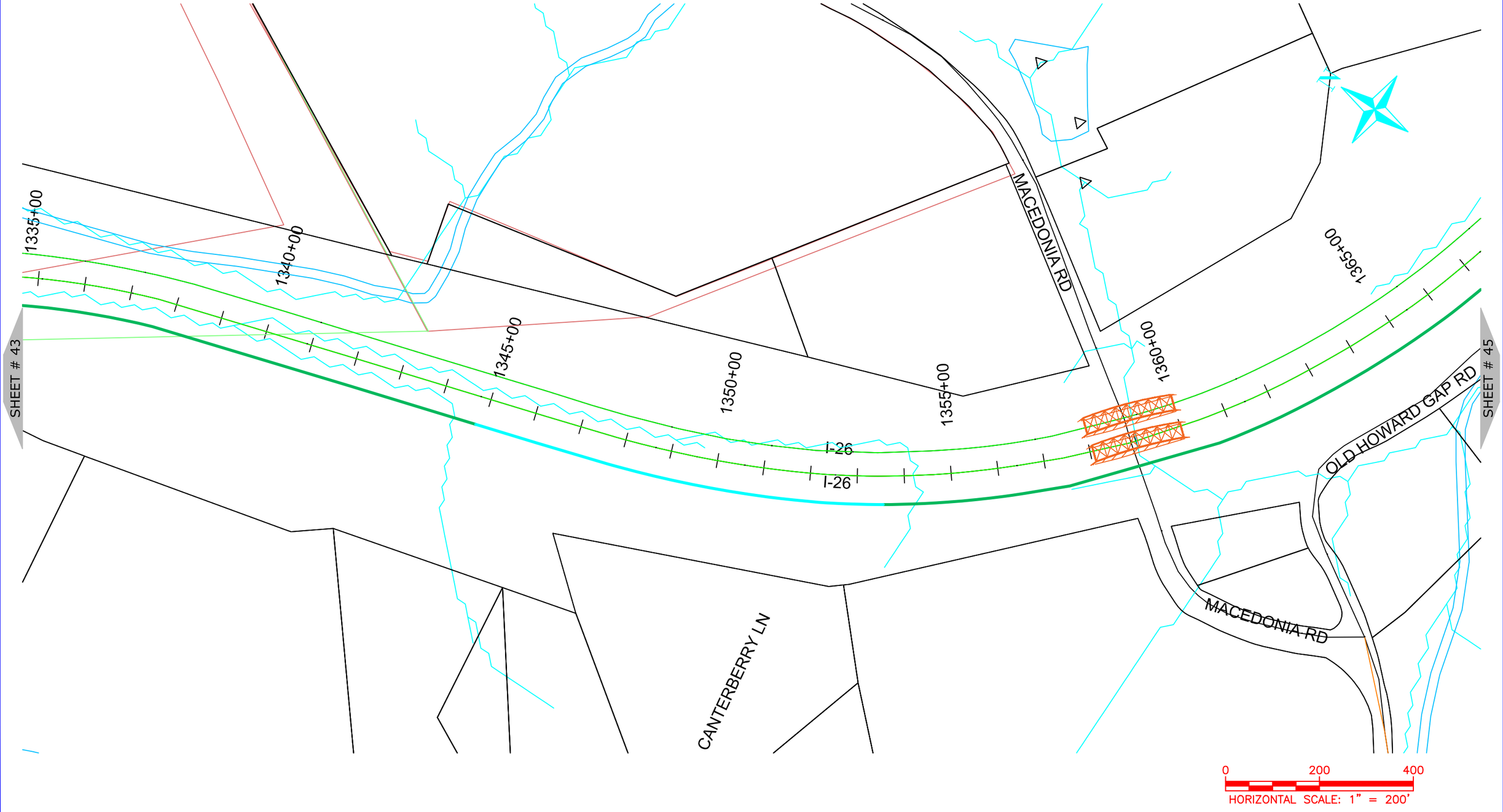
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 43

SHEET: 43

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REV	DATE	DESCRIPTION
		HENDERSON

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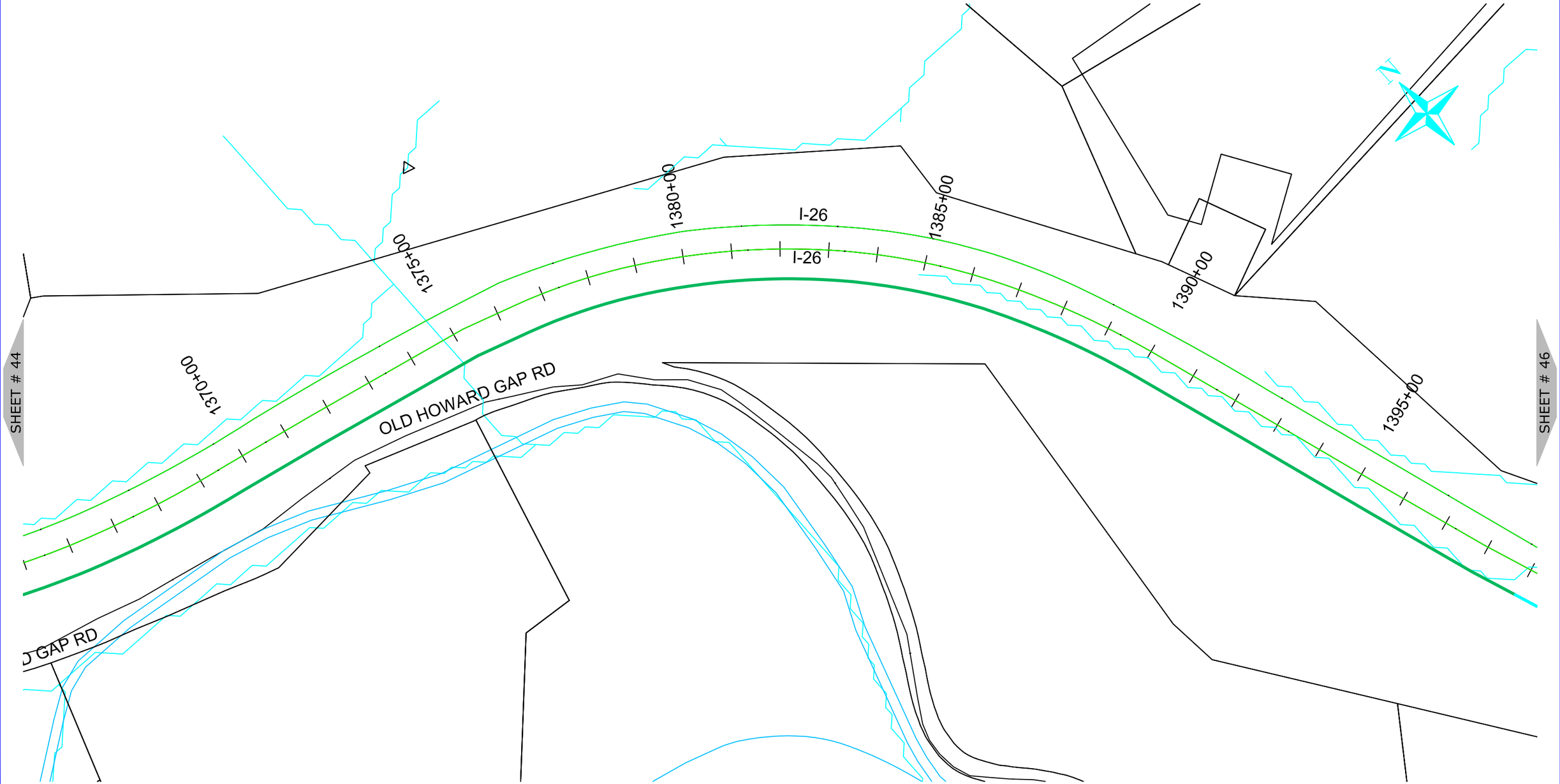
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
44

SHEET:
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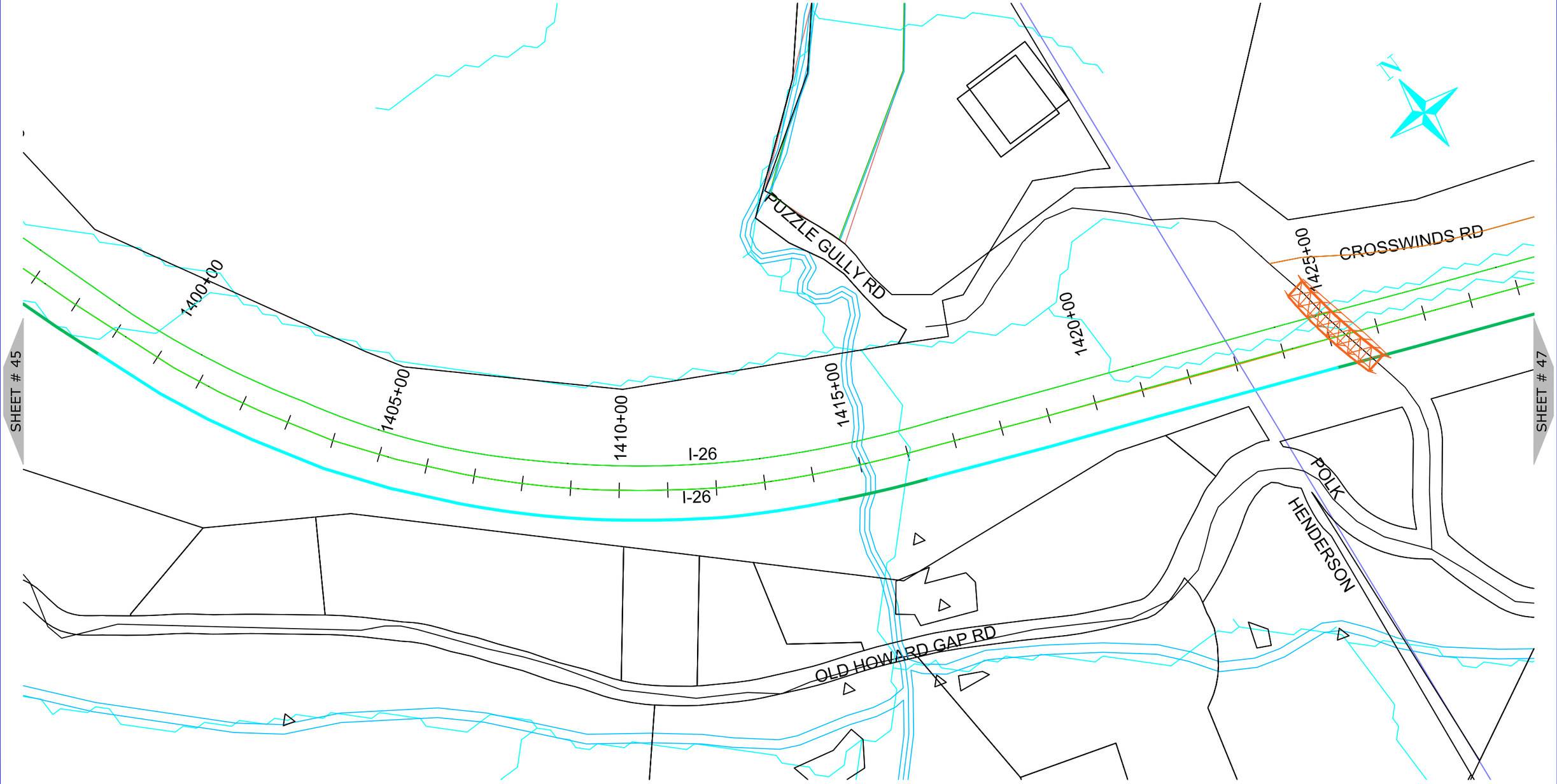
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 45

SHEET: 45

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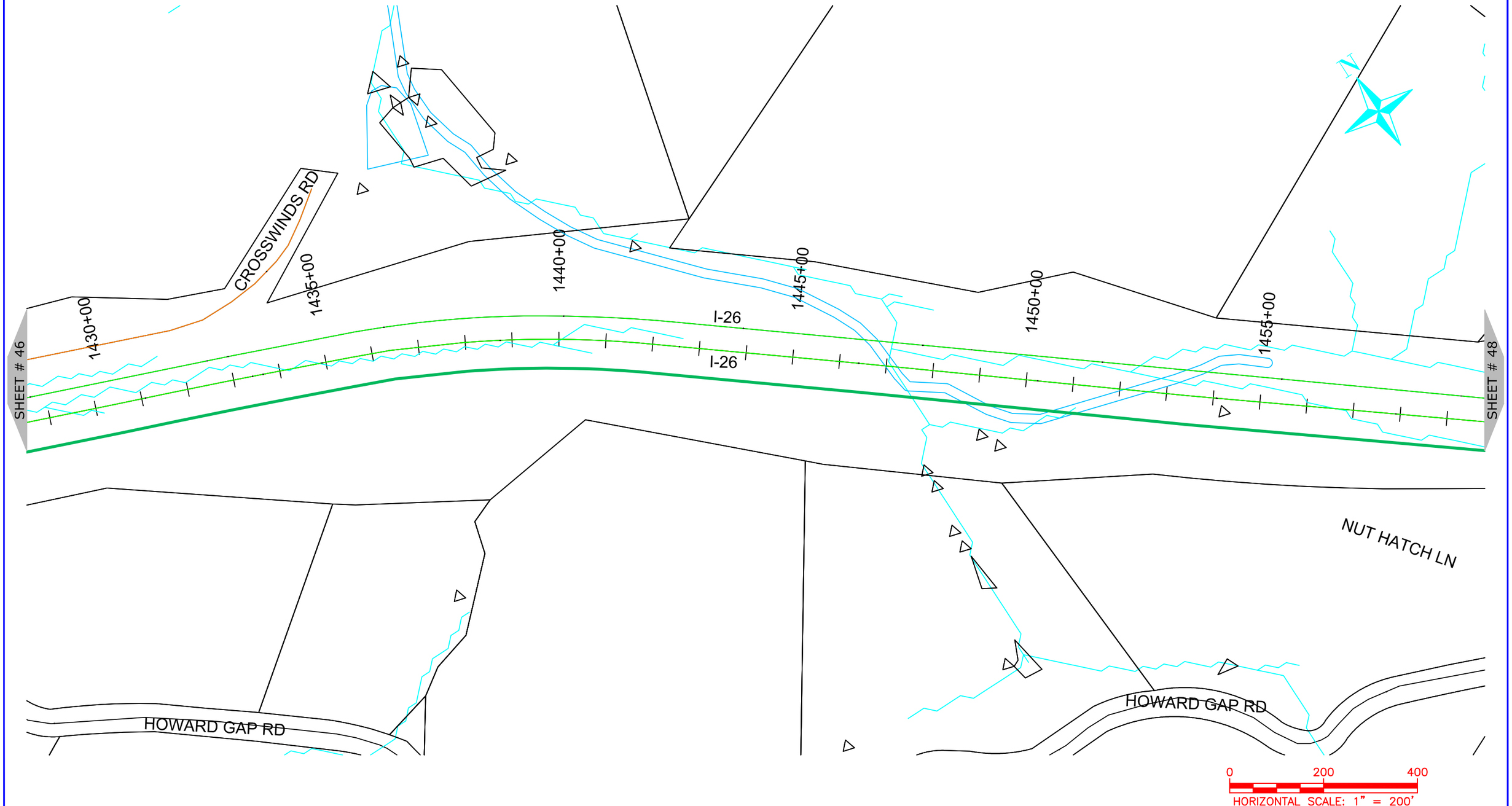
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 46

SHEET: 46

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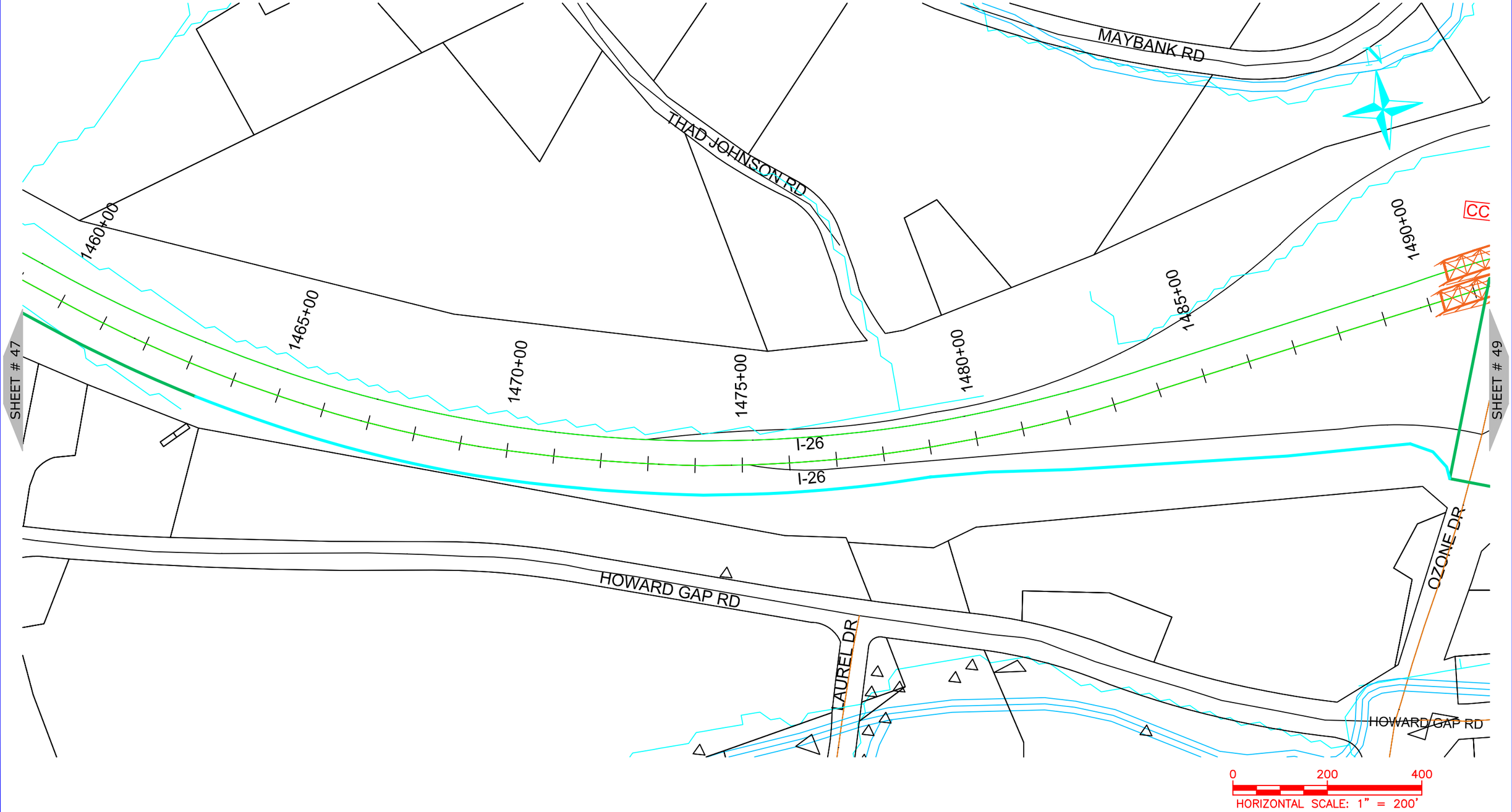
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PROJECT NAME: US-74

SHEET NAME: 47

SHEET: 47

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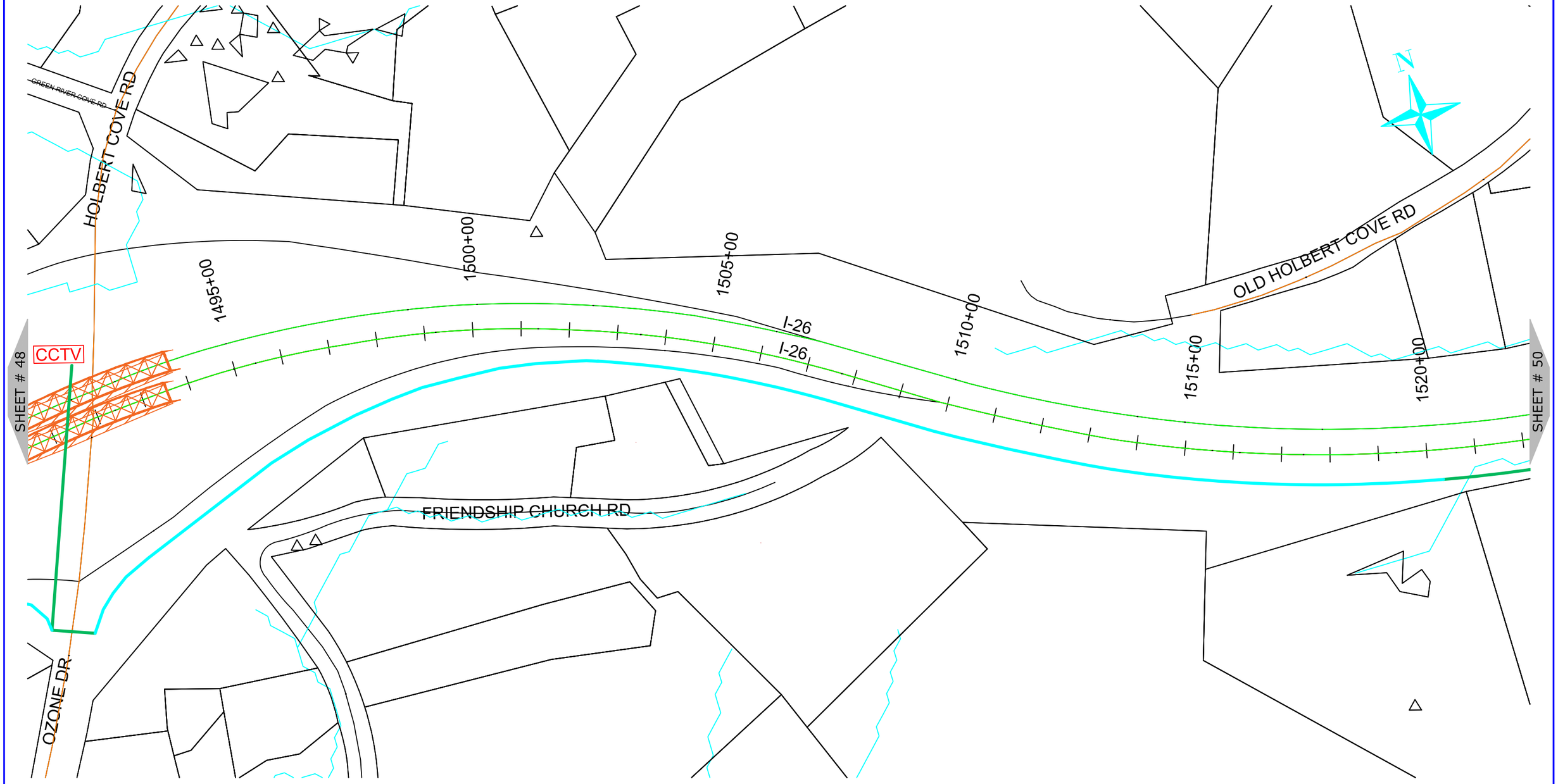
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 48

SHEET: 48

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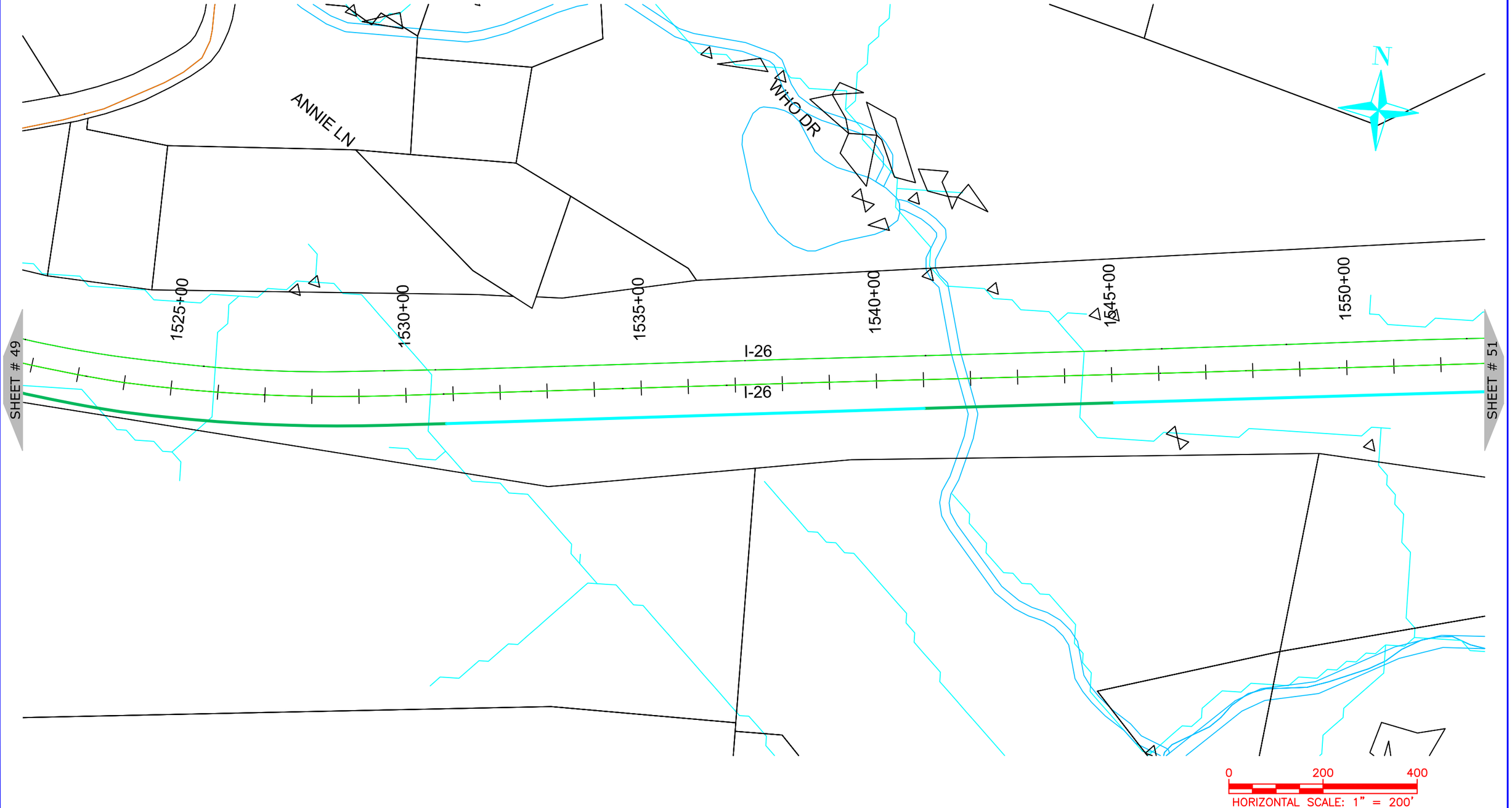
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PROJECT NAME:
US-74

SHEET NAME:
49

SHEET:
49

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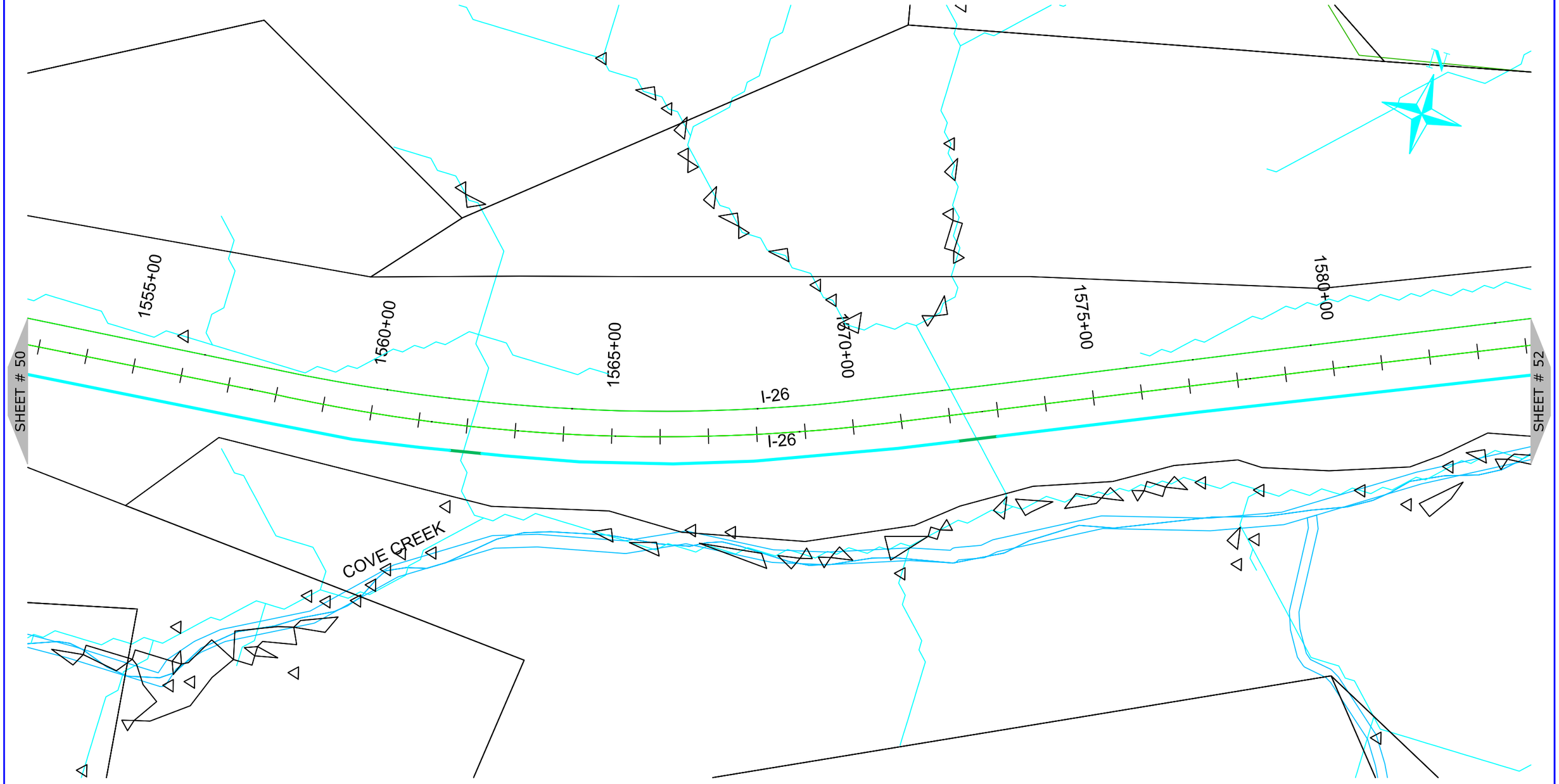
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PROJECT NAME: US-74

SHEET NAME: 50

SHEET: 50

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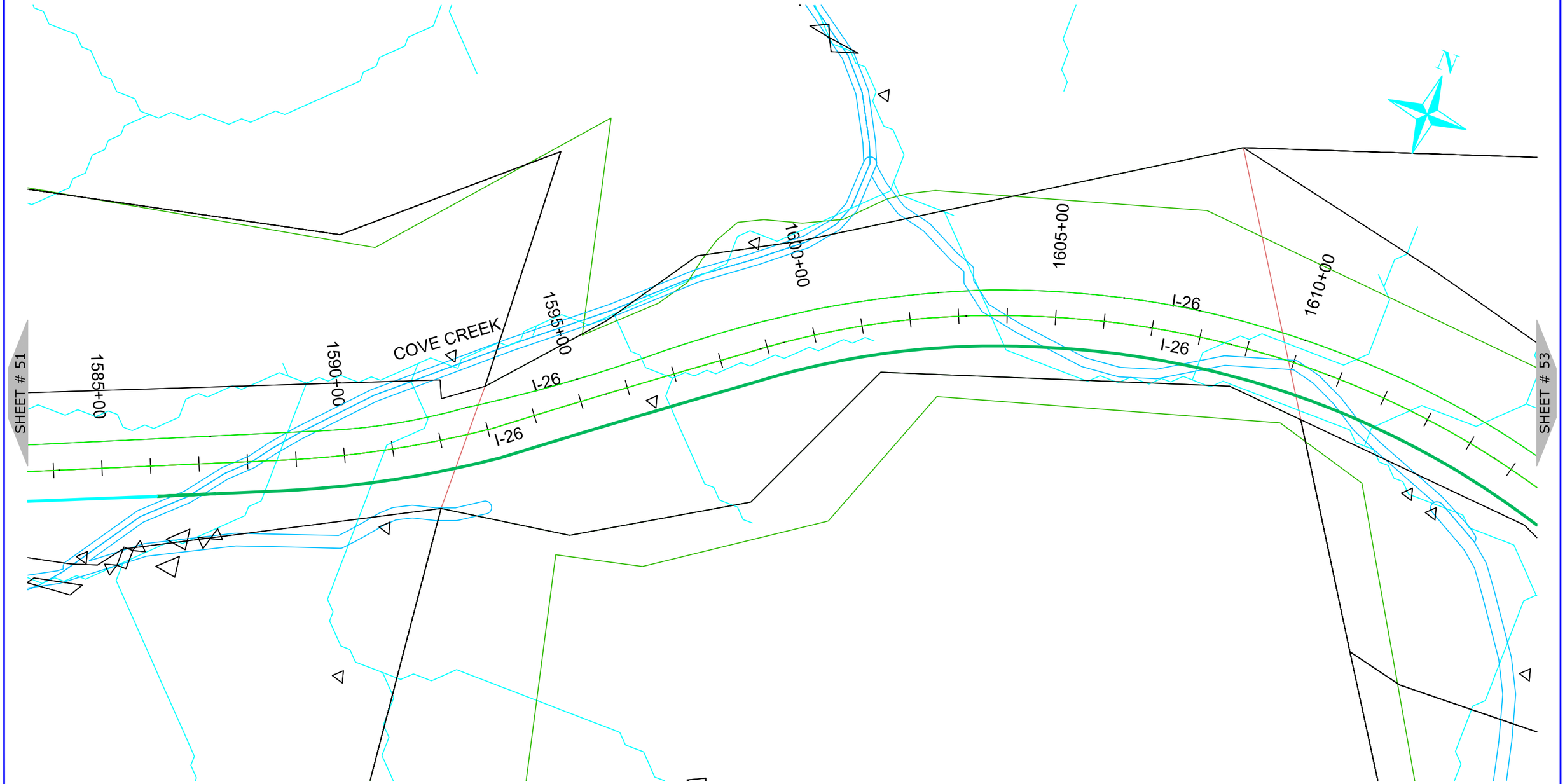
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PROJECT NAME:
US-74

SHEET NAME:
51

SHEET:
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PROJECT NAME: US-74

SHEET NAME: 52

SHEET: 52

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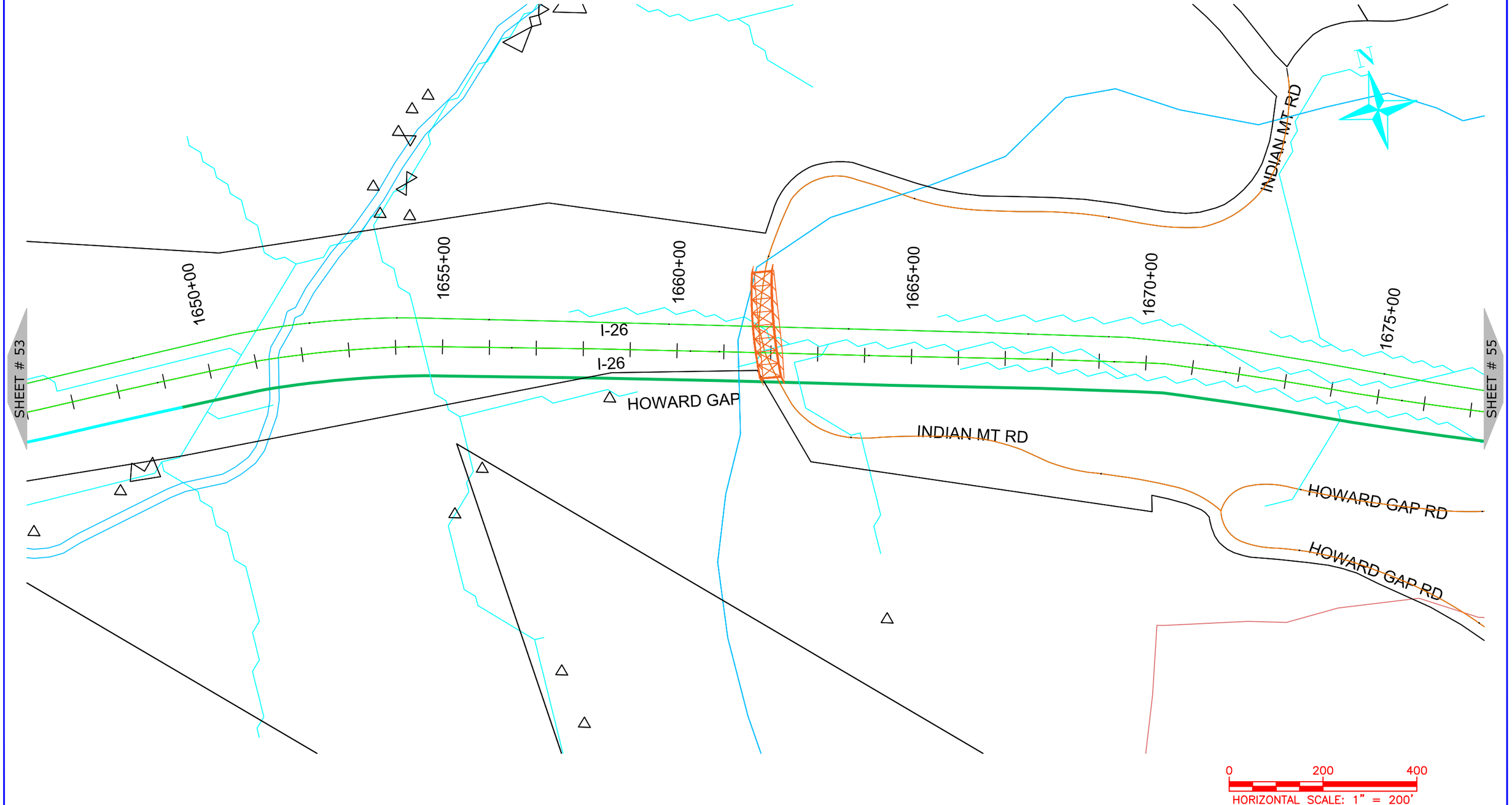
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 53

SHEET: 53

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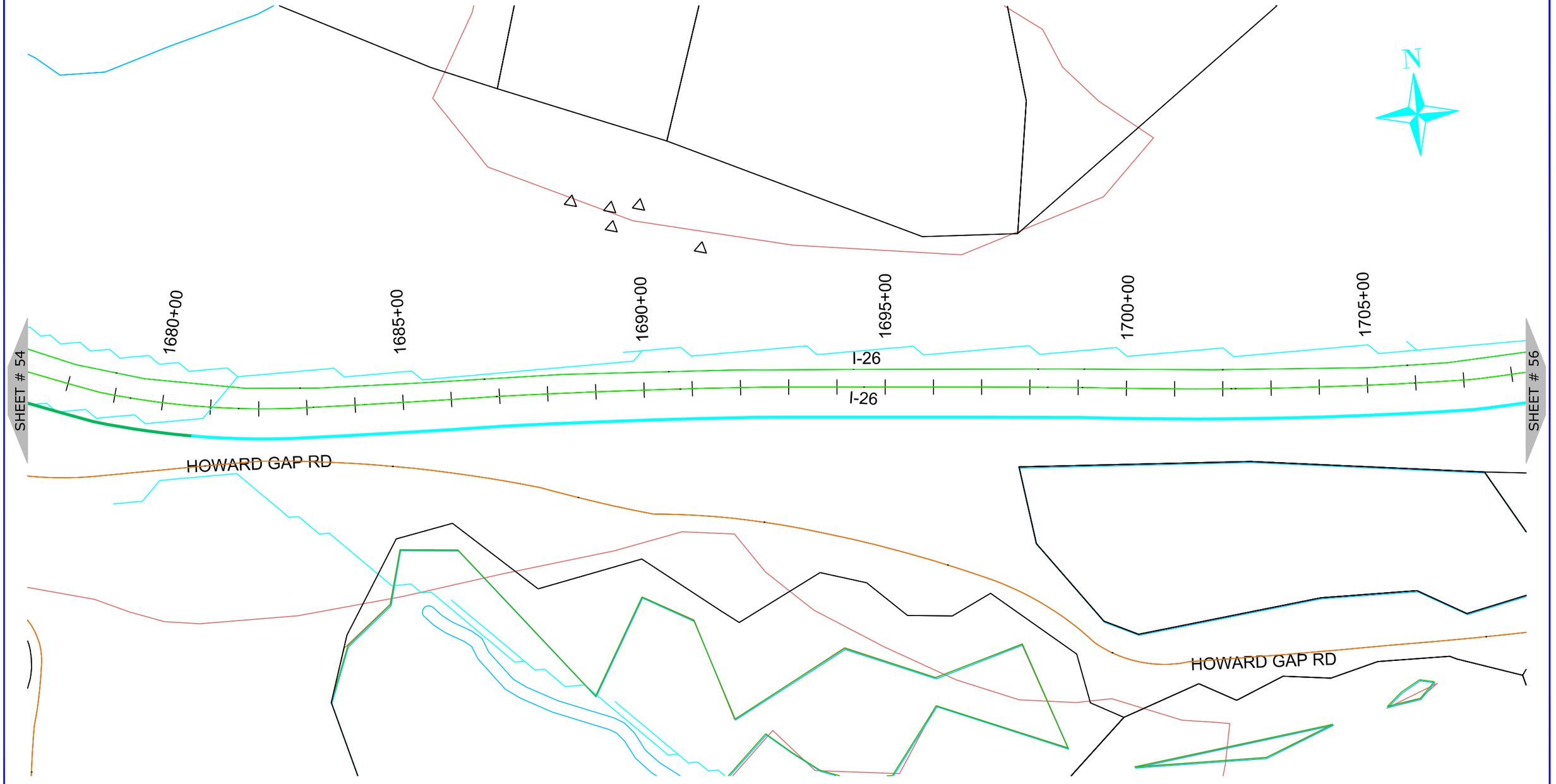
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 54

SHEET: 54

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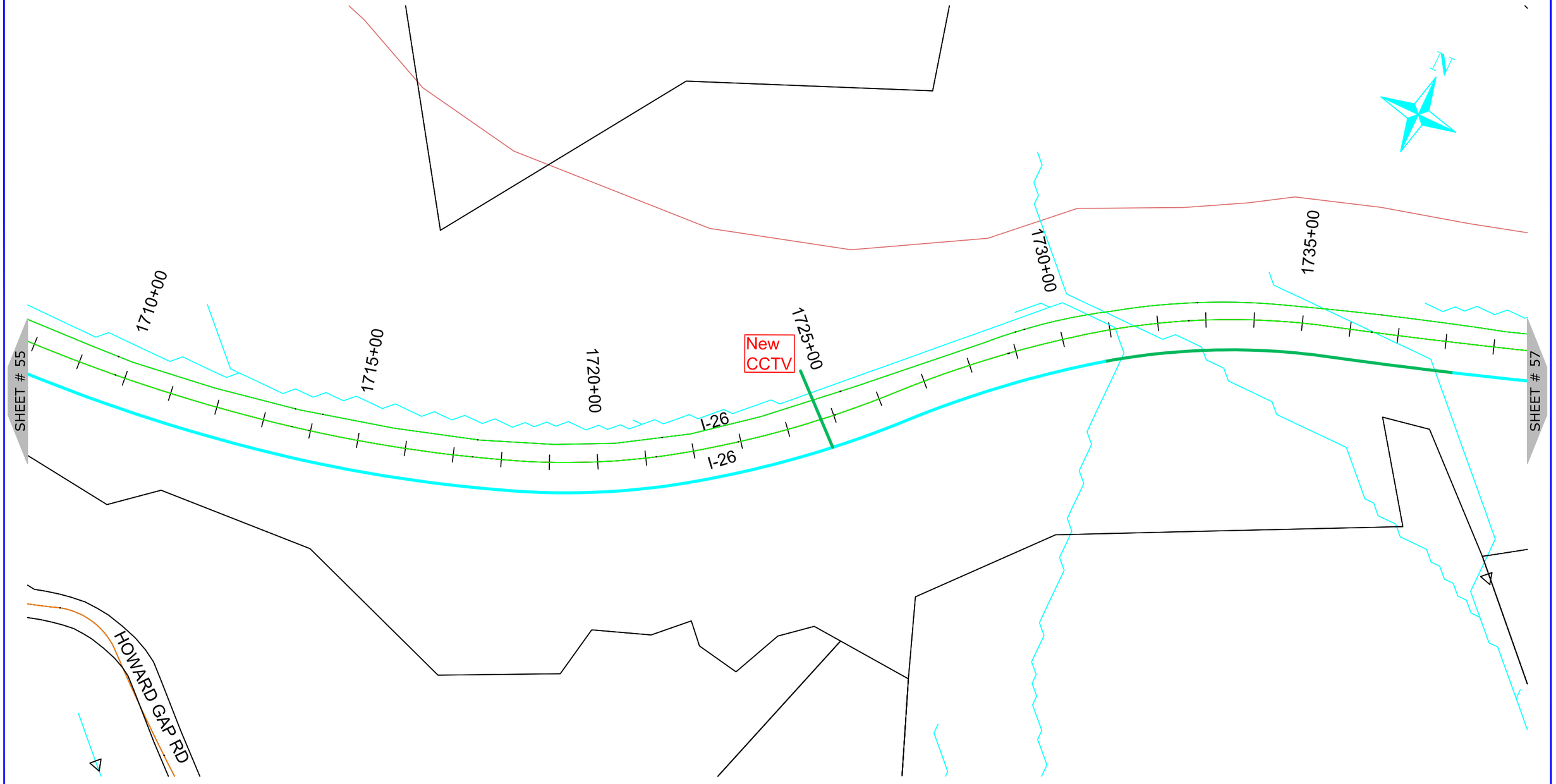
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 55

SHEET: 55

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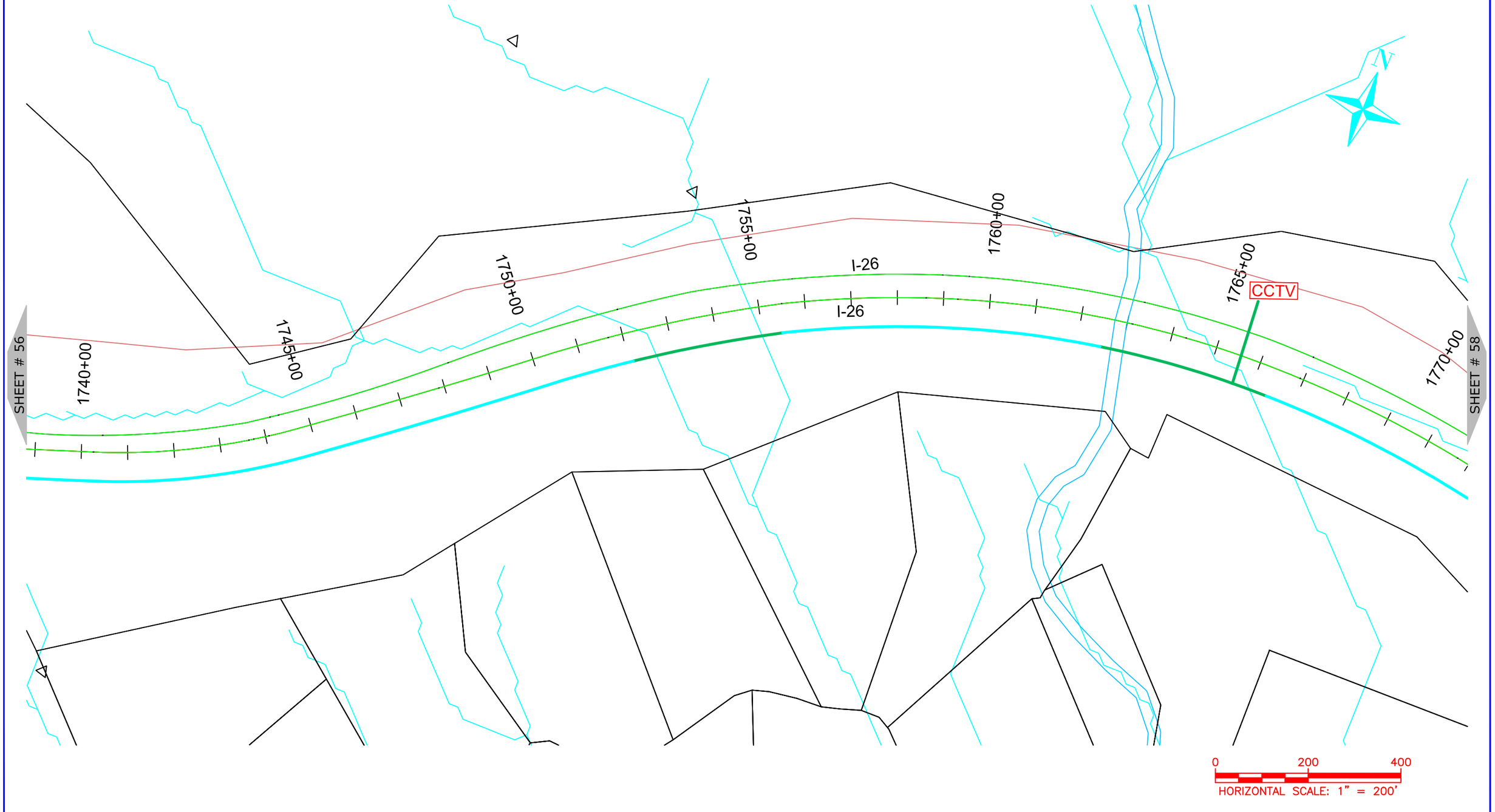
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 56

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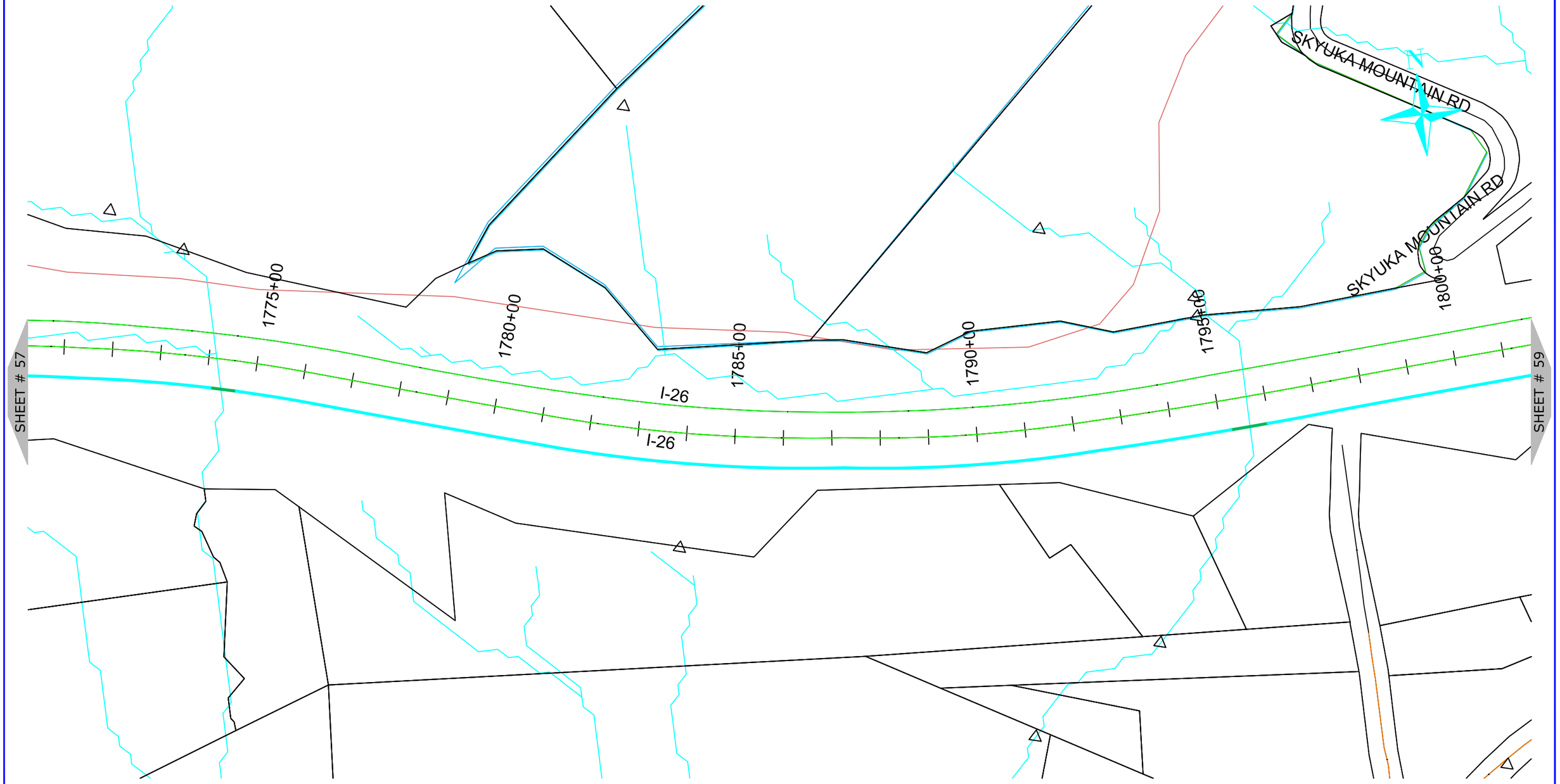
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 57

SHEET: 57

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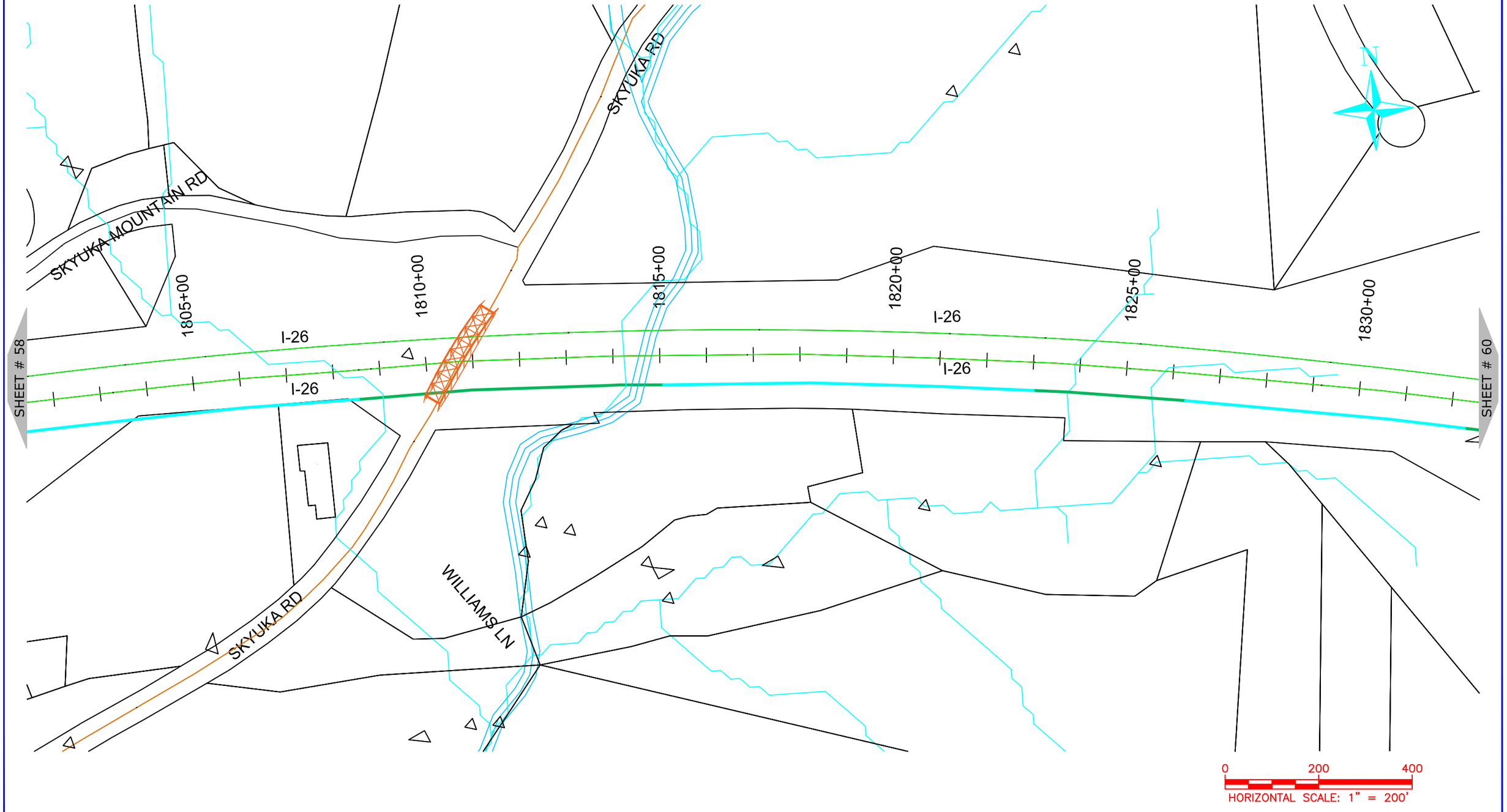
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 58

SHEET: 58

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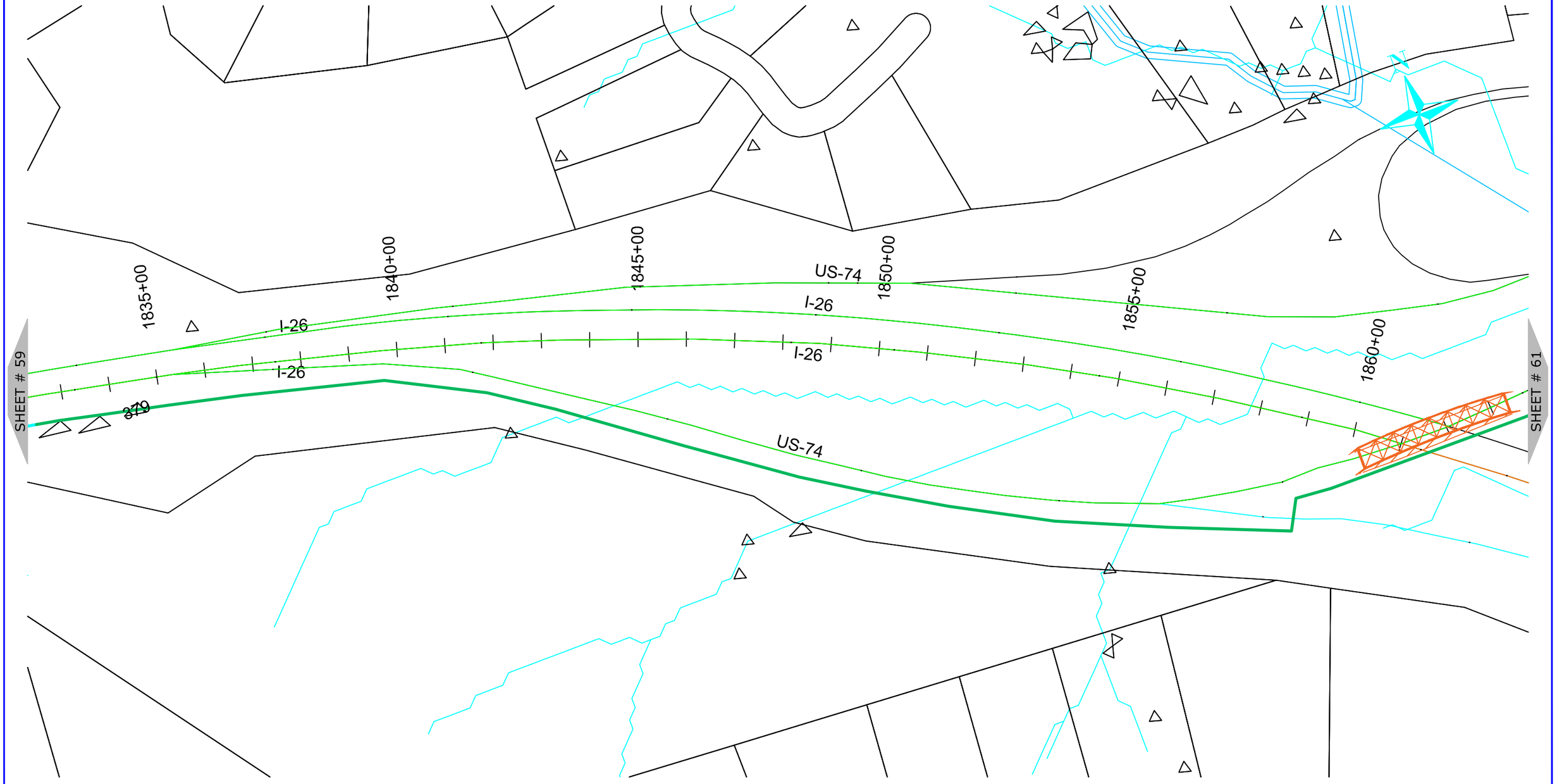
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PROJECT NAME: US-74

SHEET NAME: 59

SHEET: 59

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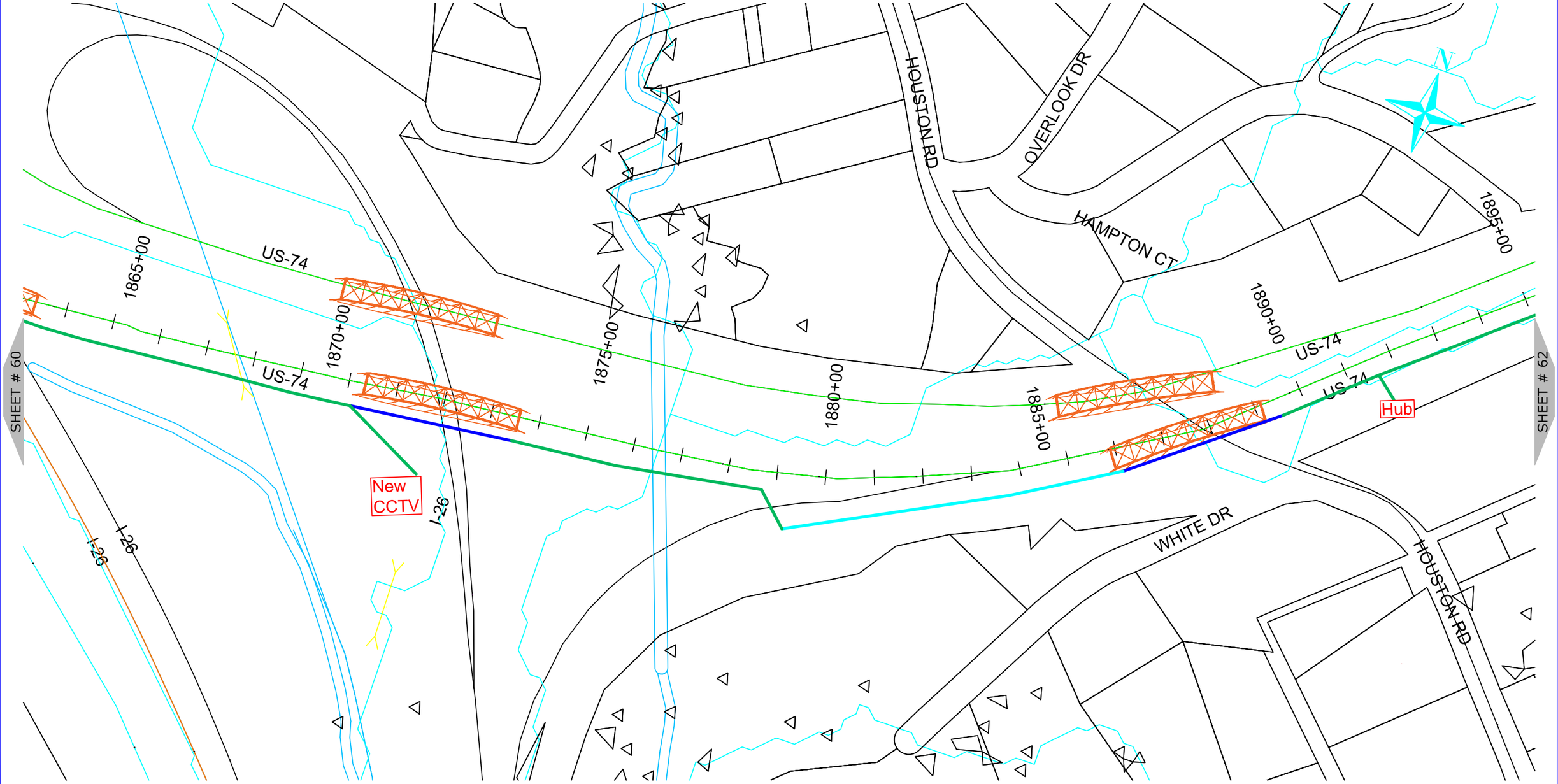
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 60

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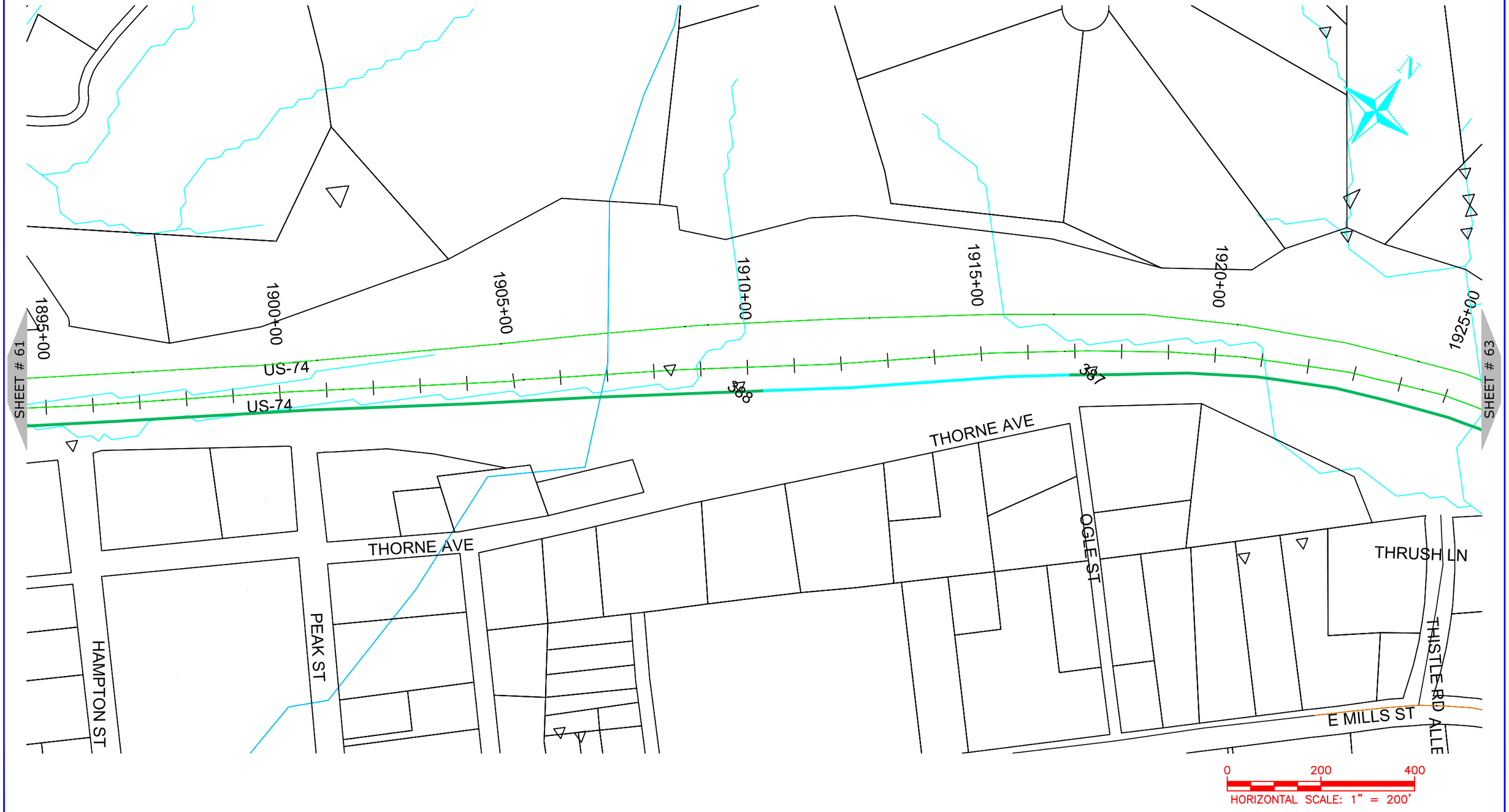
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 61

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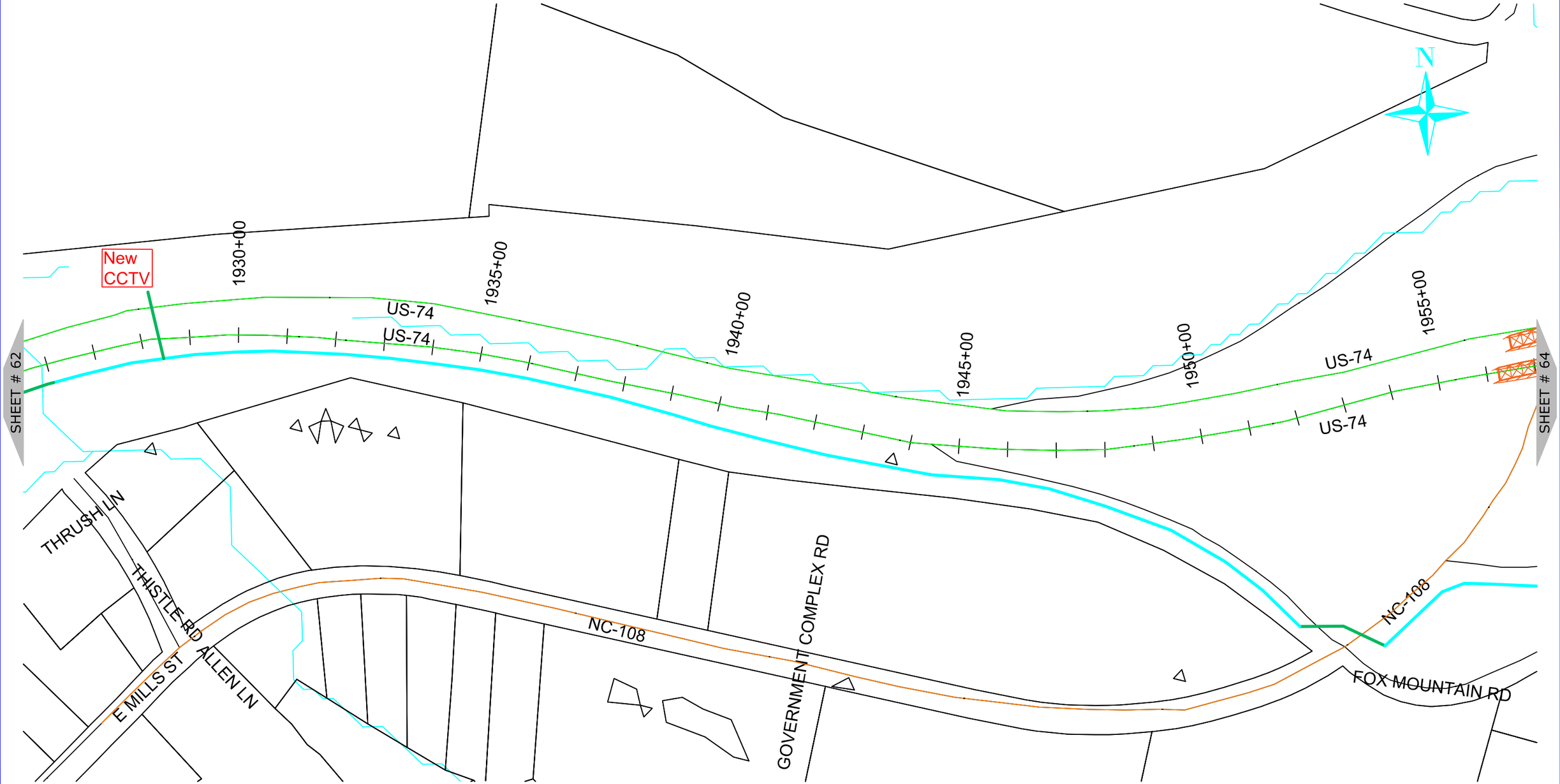
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 62

SHEET: 62

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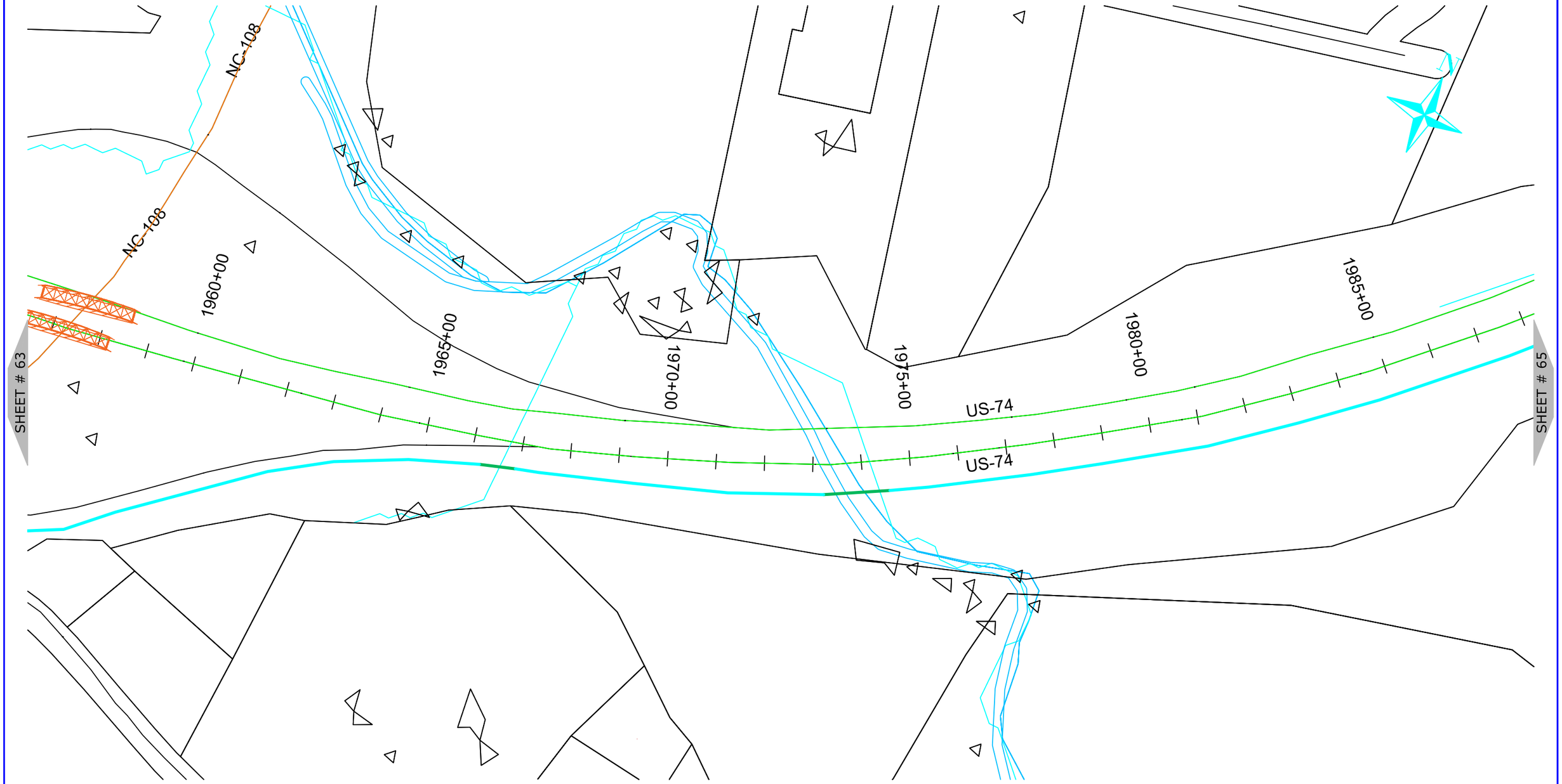
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 63

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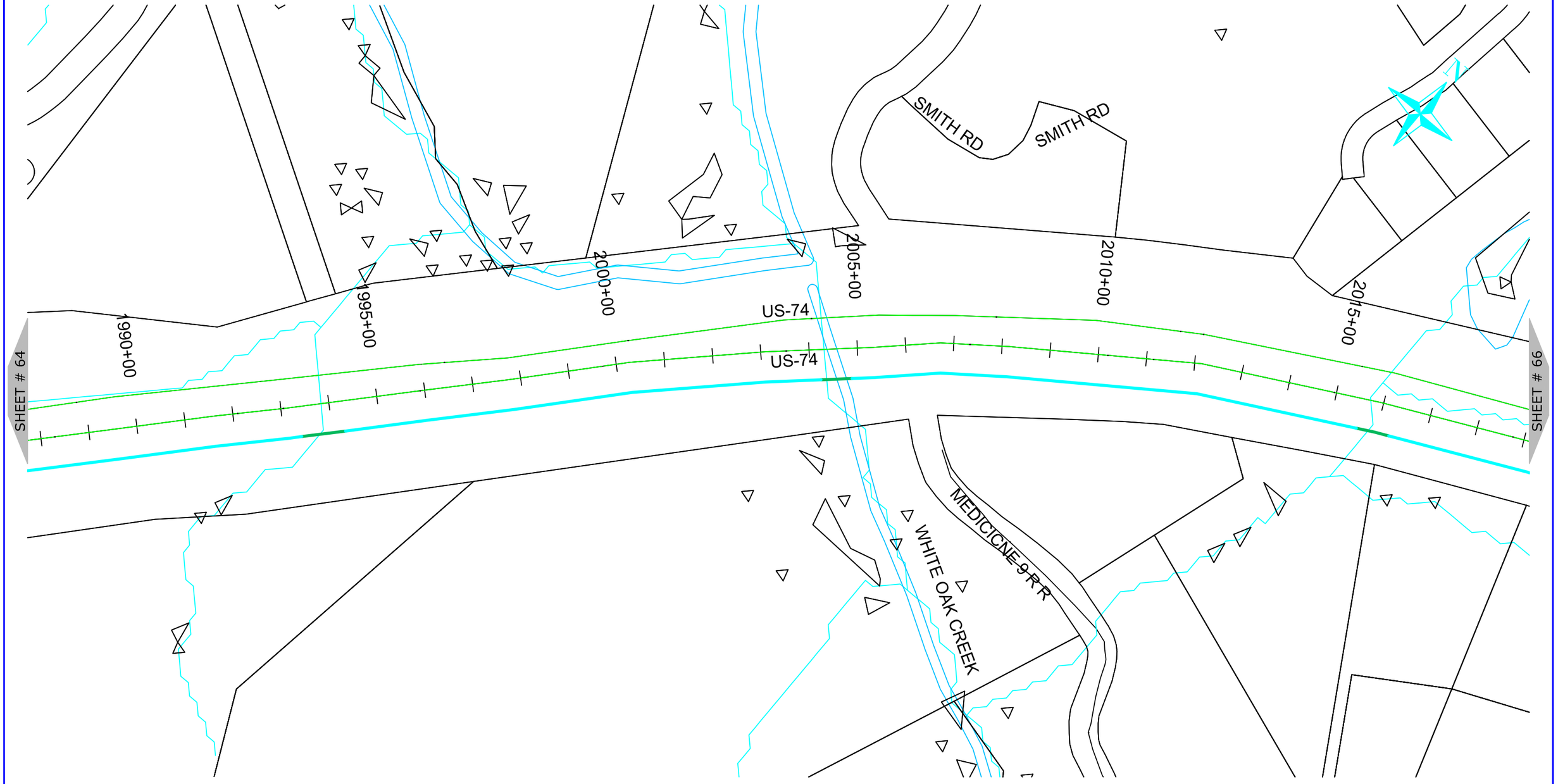
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PROJECT NAME: US-74

SHEET NAME: 64

SHEET: 64

Submitted 12/16/2021



NUG COMMUNICATIONS
3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
		POLK

OWNER:

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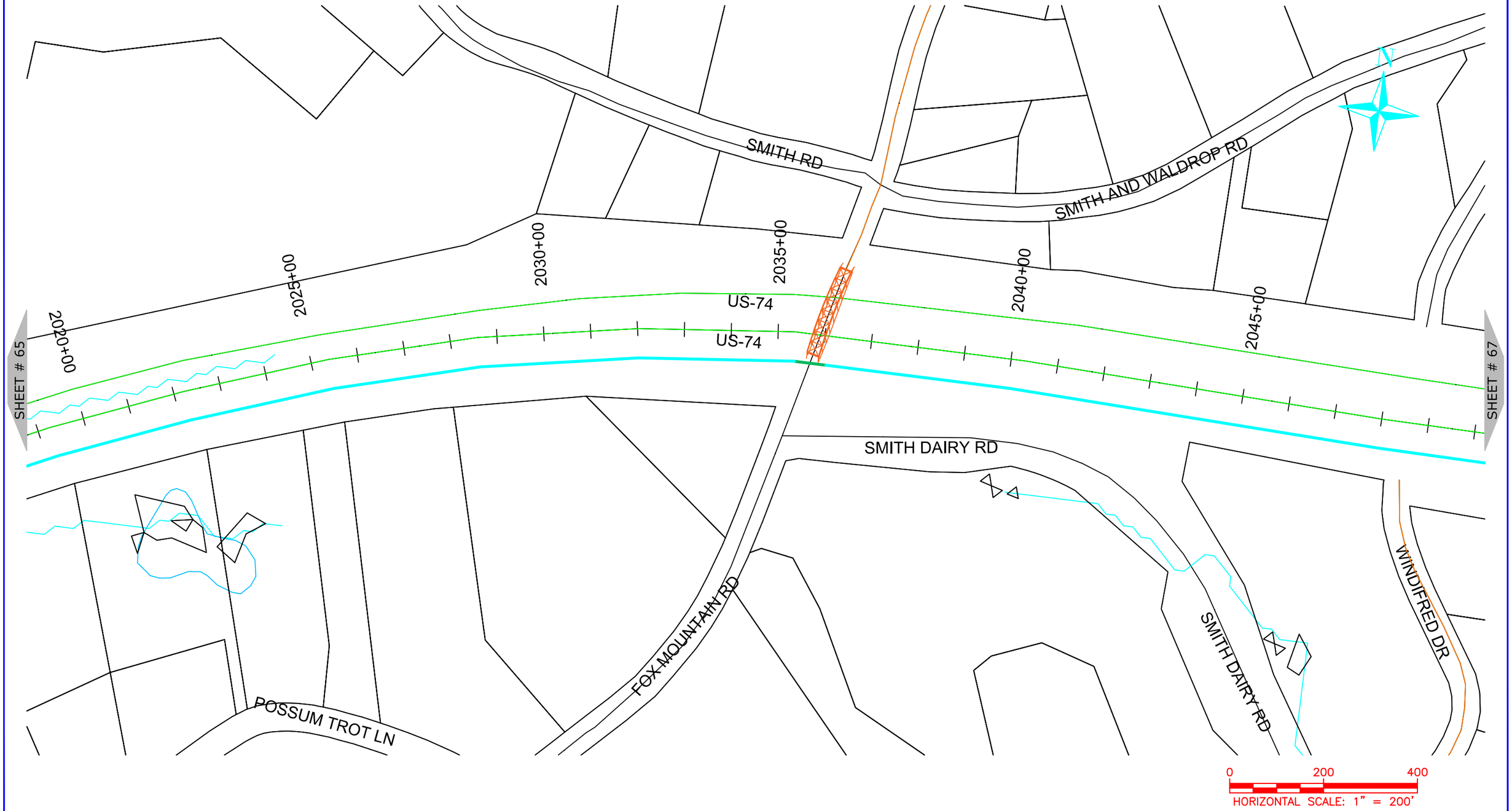
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
65

SHEET:
65

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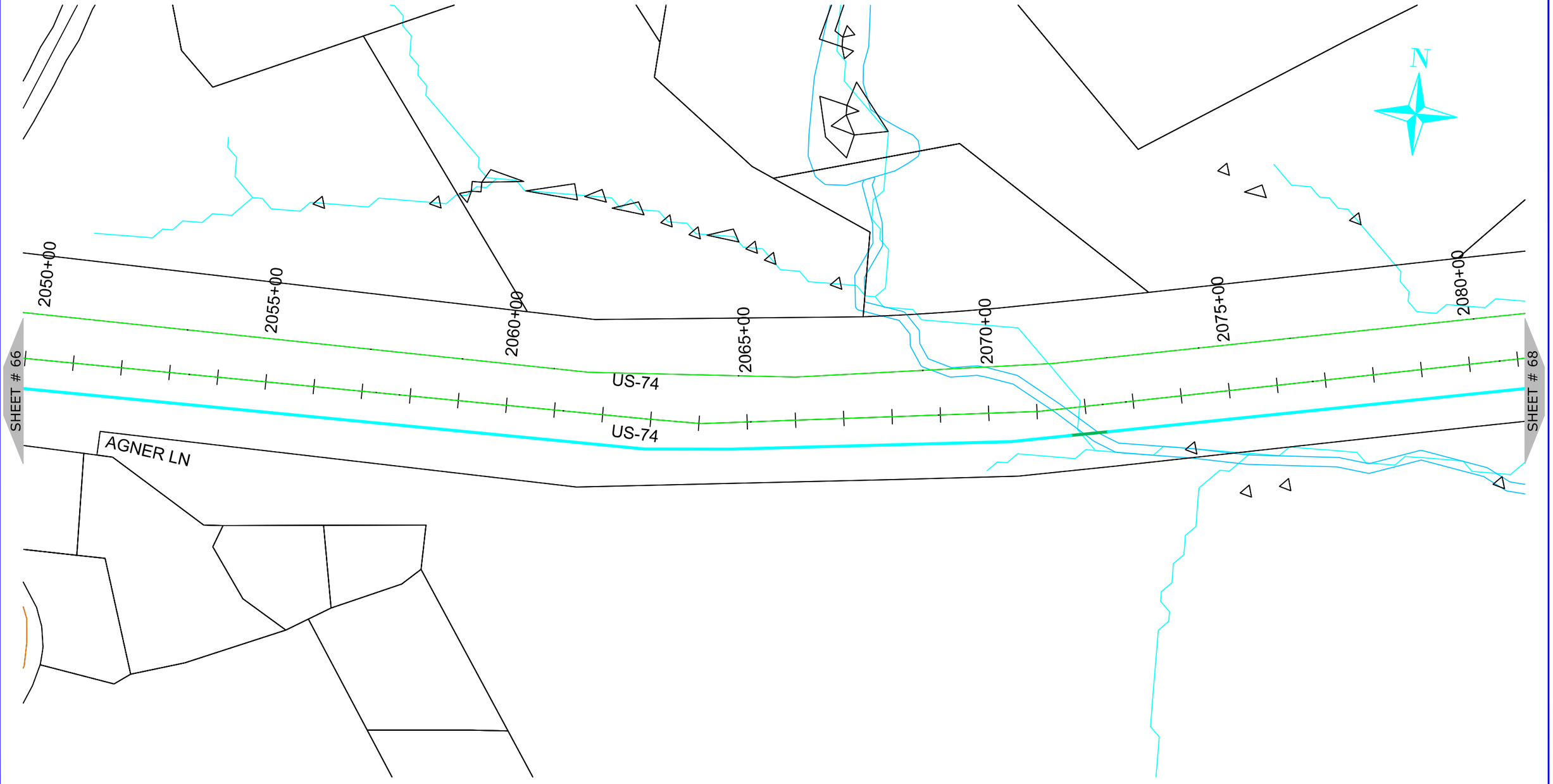
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 66

SHEET: 66

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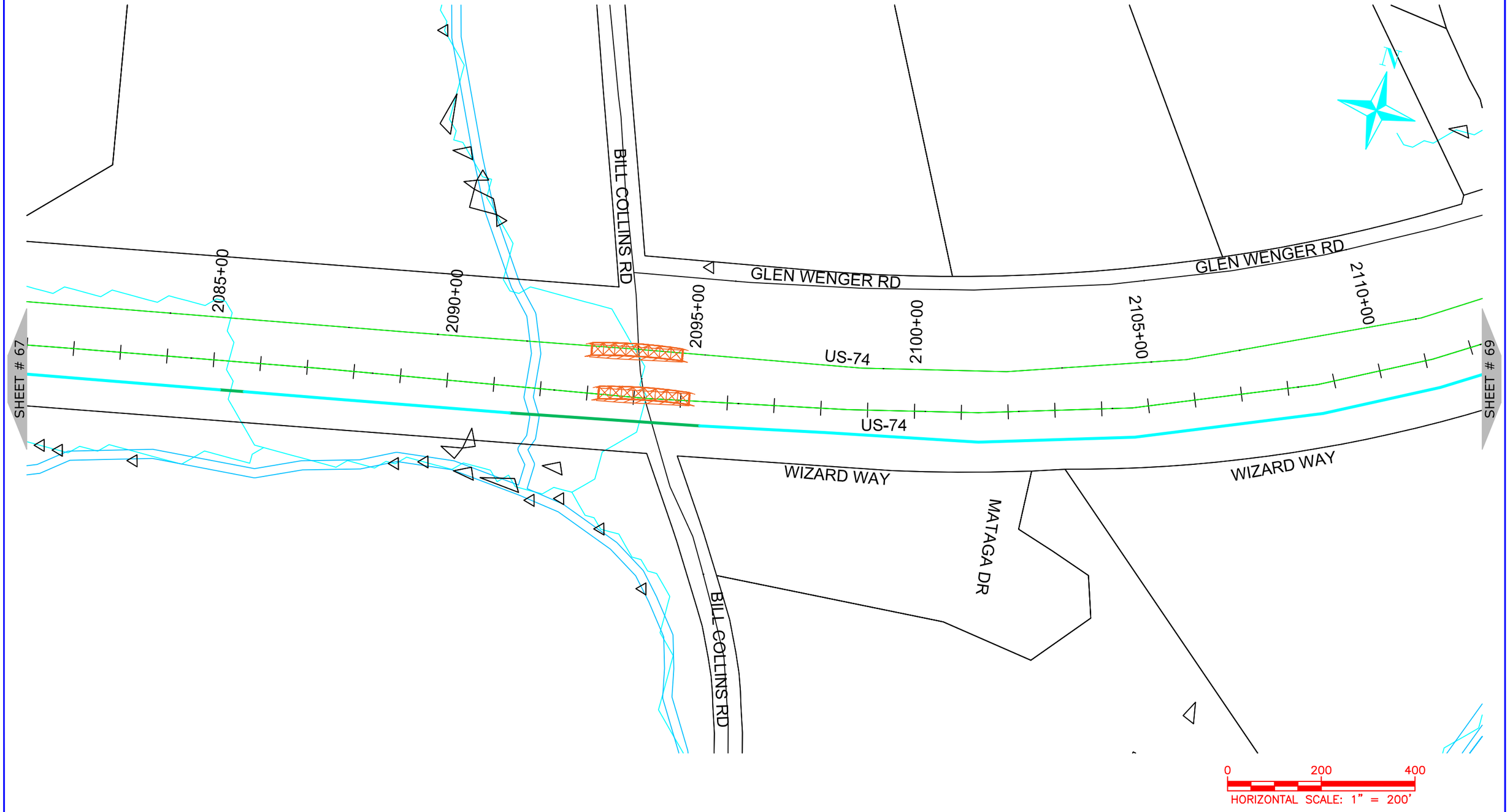
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 67

SHEET: 67

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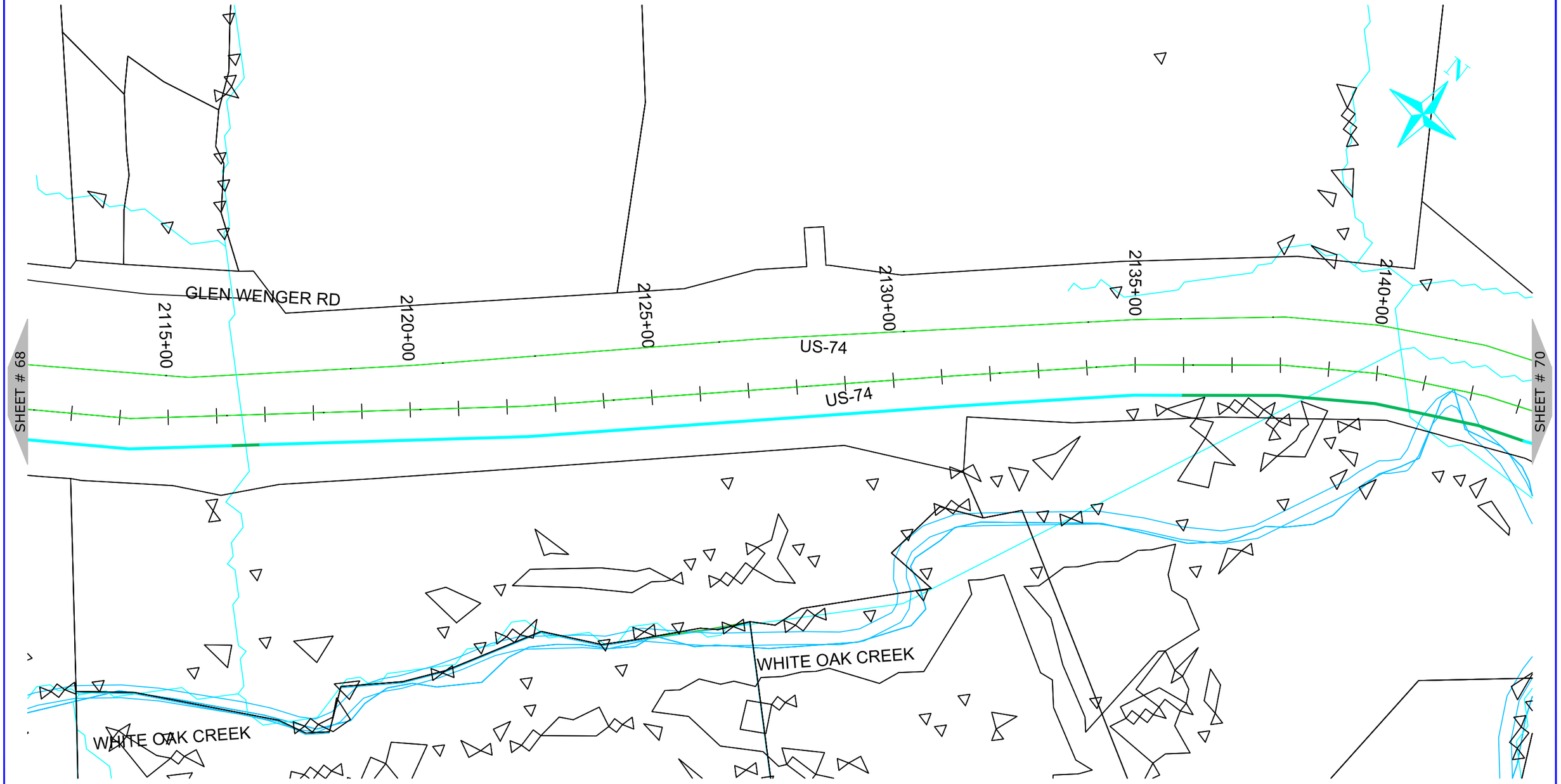
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 68

SHEET: 68

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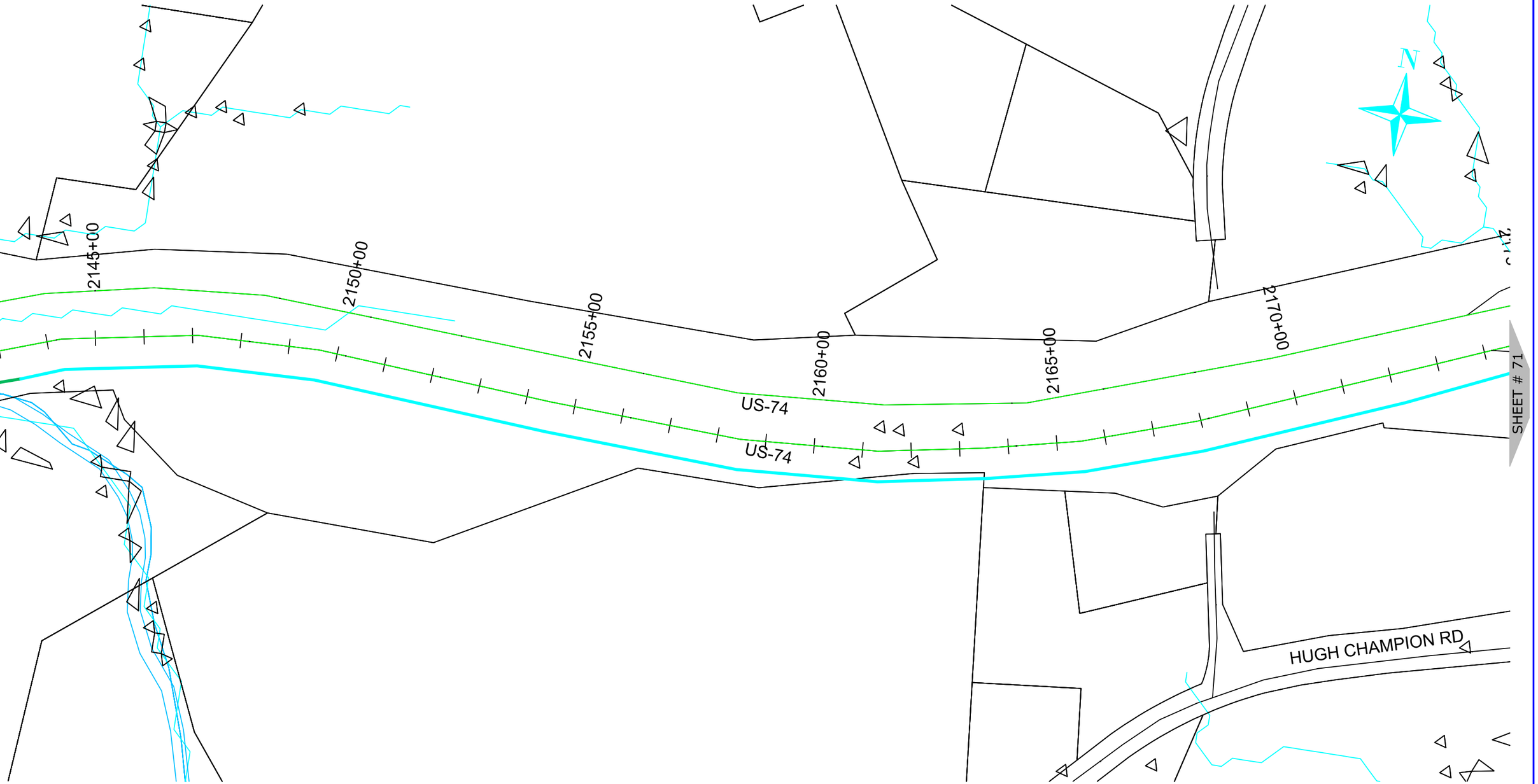
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PROJECT NAME: US-74

SHEET NAME: 69

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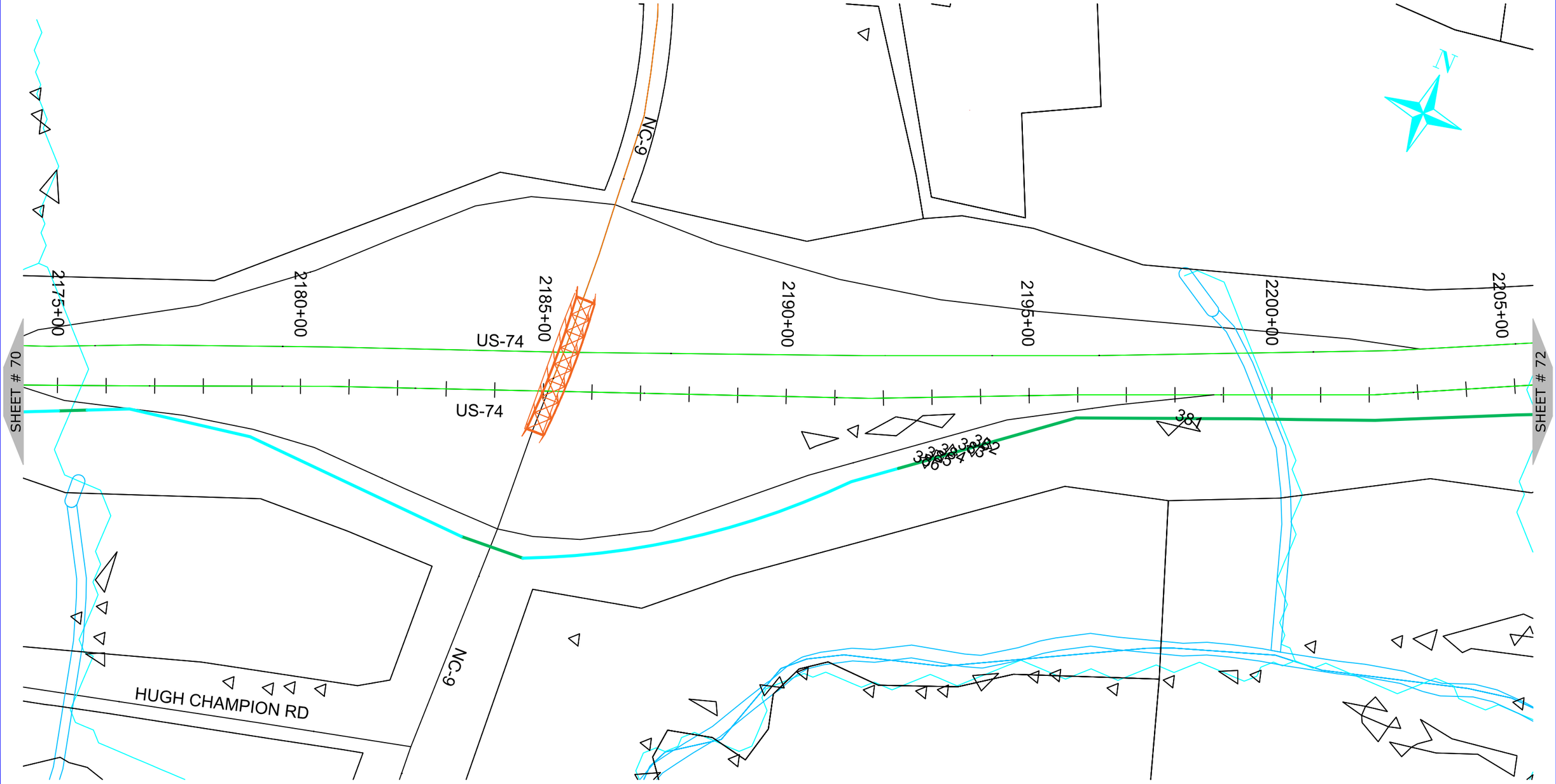
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PROJECT NAME: US-74

SHEET NAME: 70

SHEET: 70

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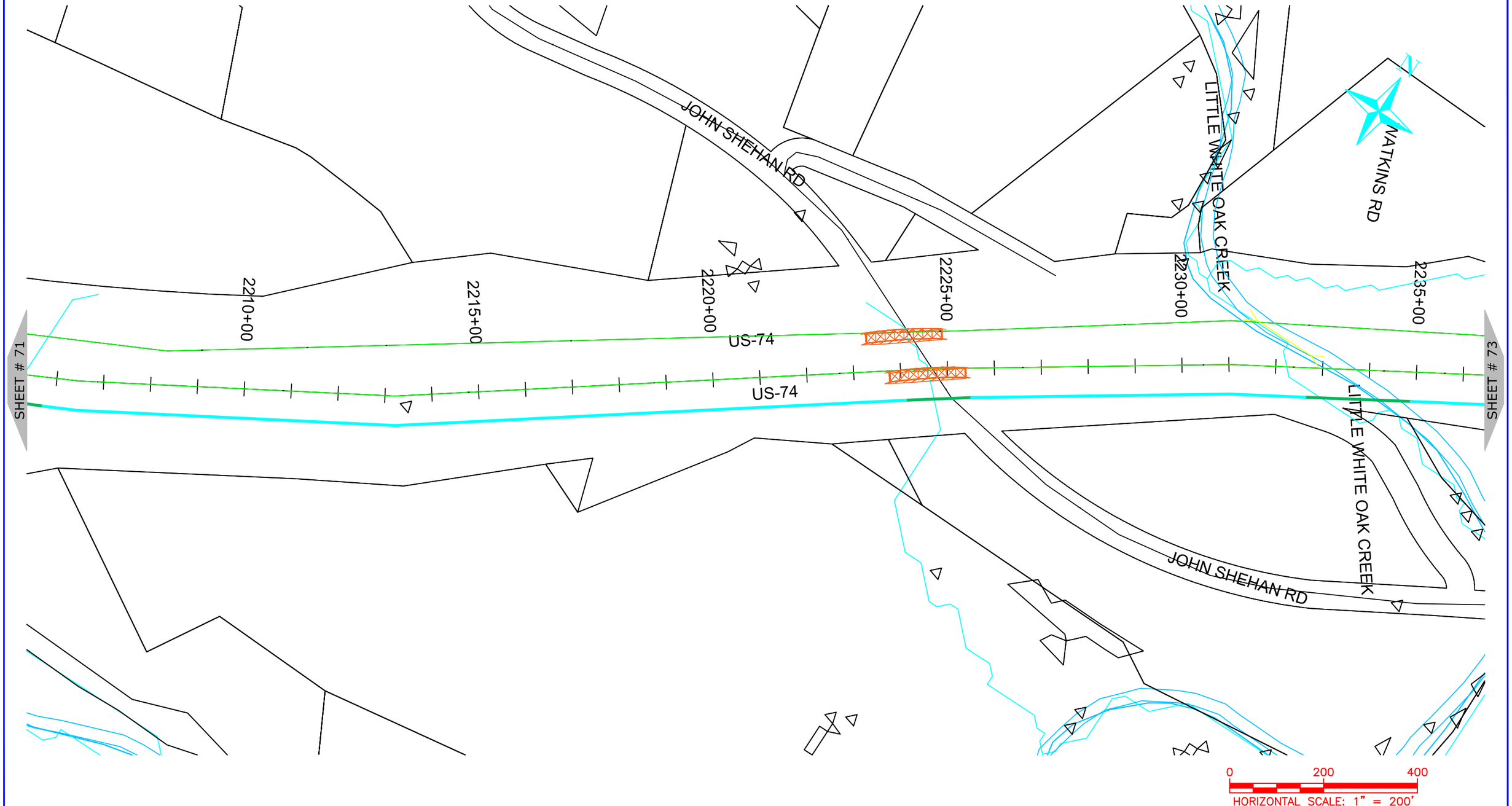
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 71

SHEET: 71

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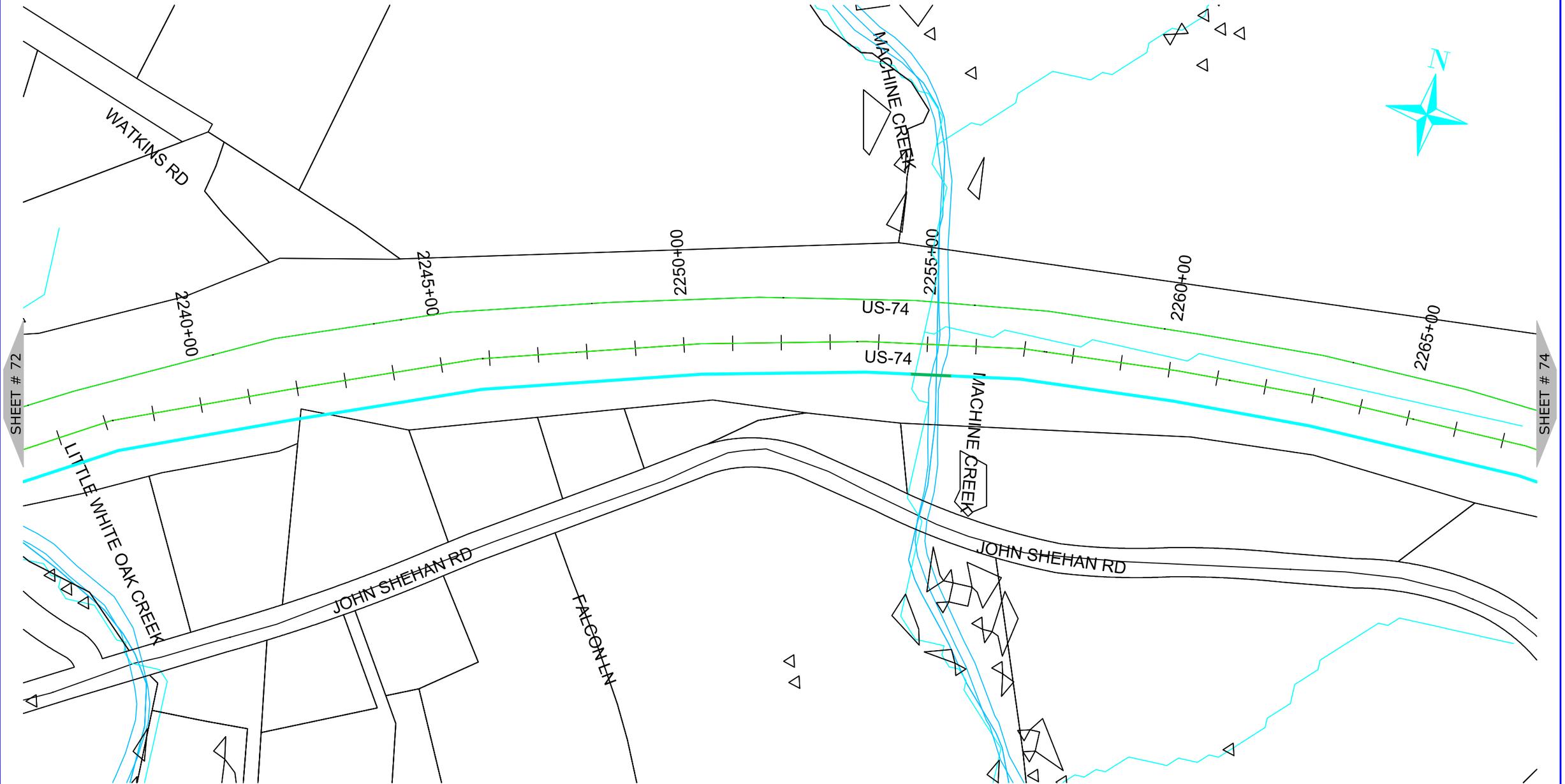
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PROJECT NAME: US-74

SHEET NAME: 72

SHEET: 72

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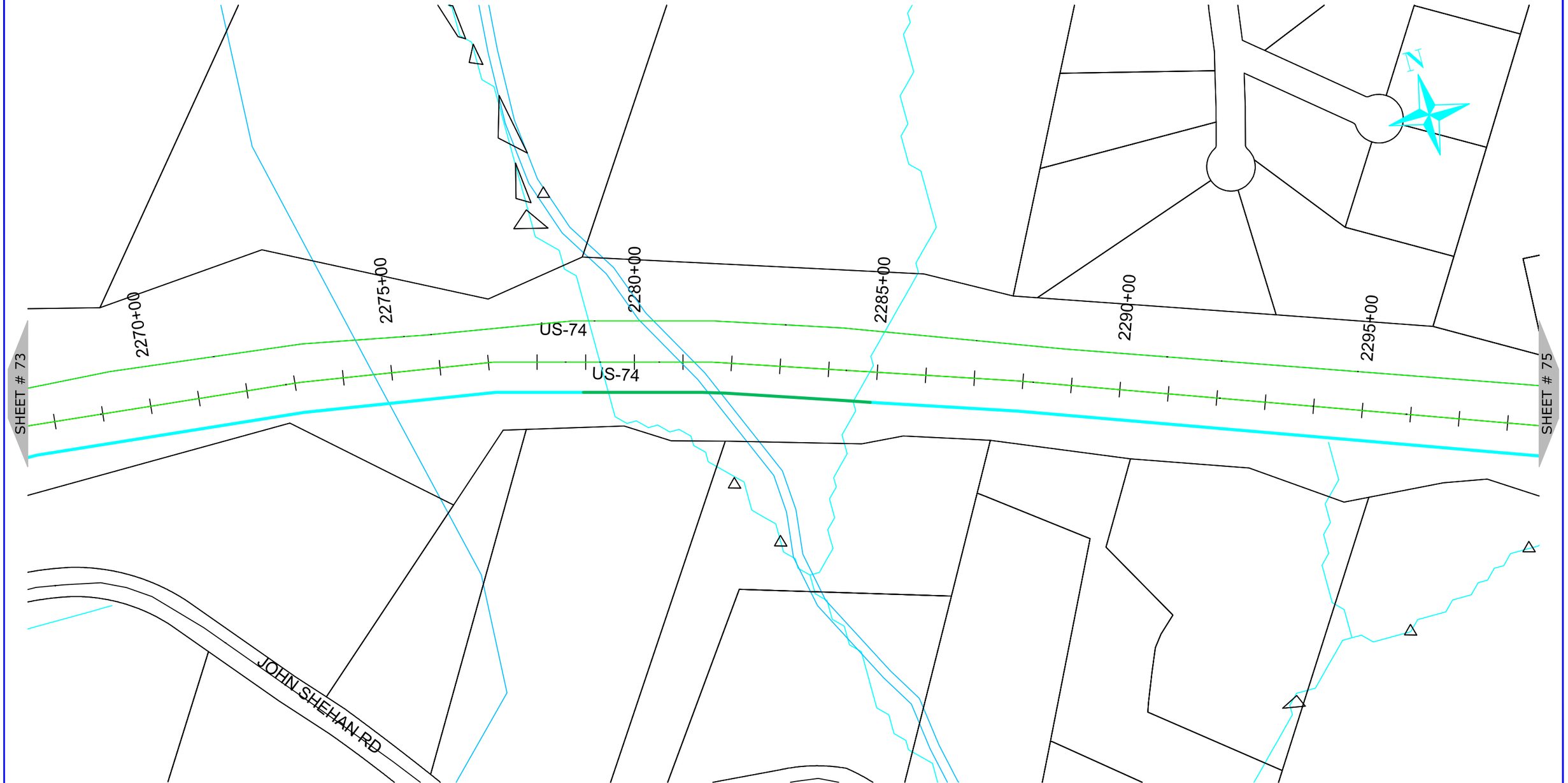
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PROJECT NAME: US-74

SHEET NAME: 73

SHEET: 73

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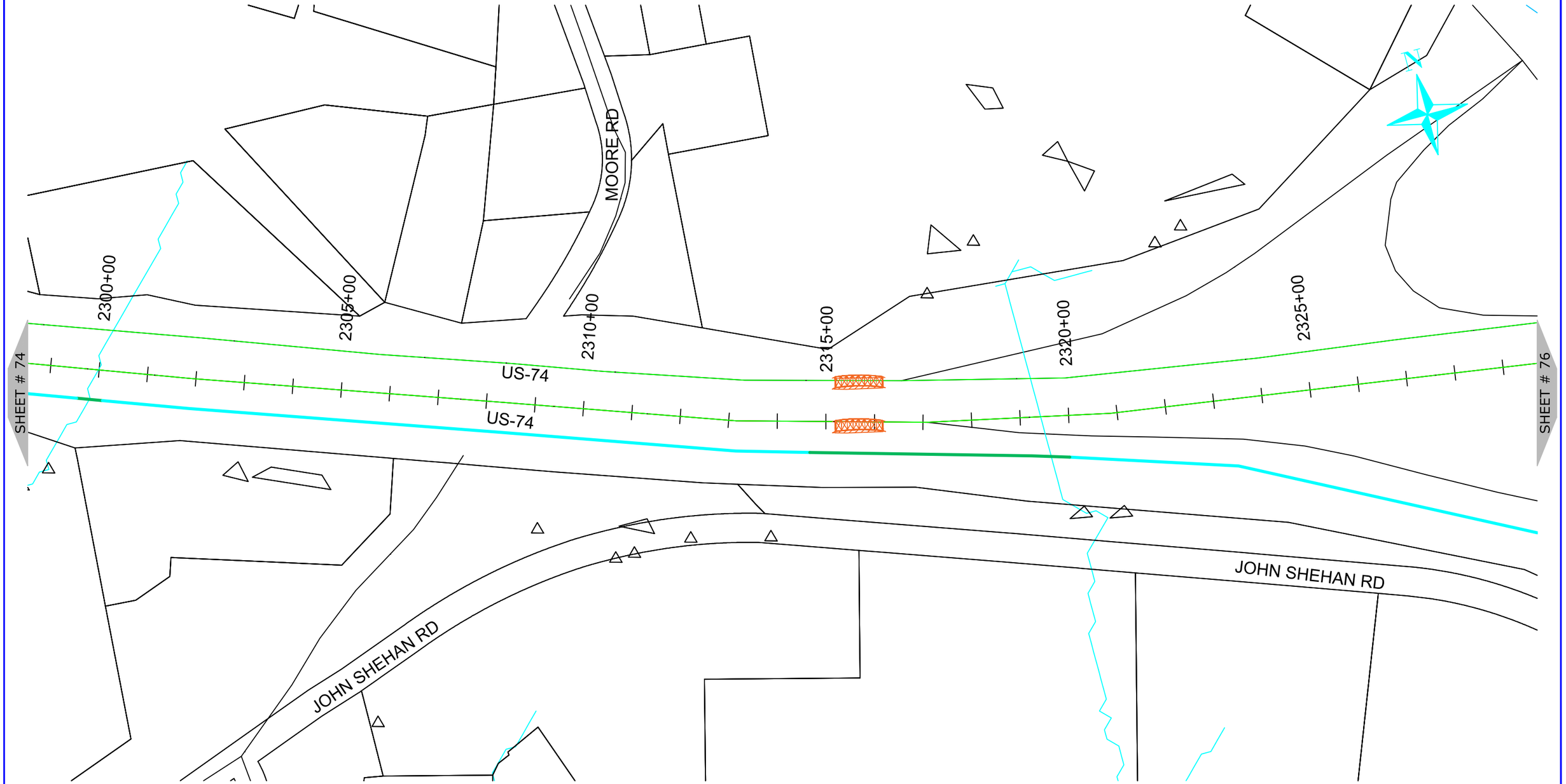
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DATE:	12-05-2021
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PROJECT NAME: US-74

SHEET NAME: 74

SHEET: 74

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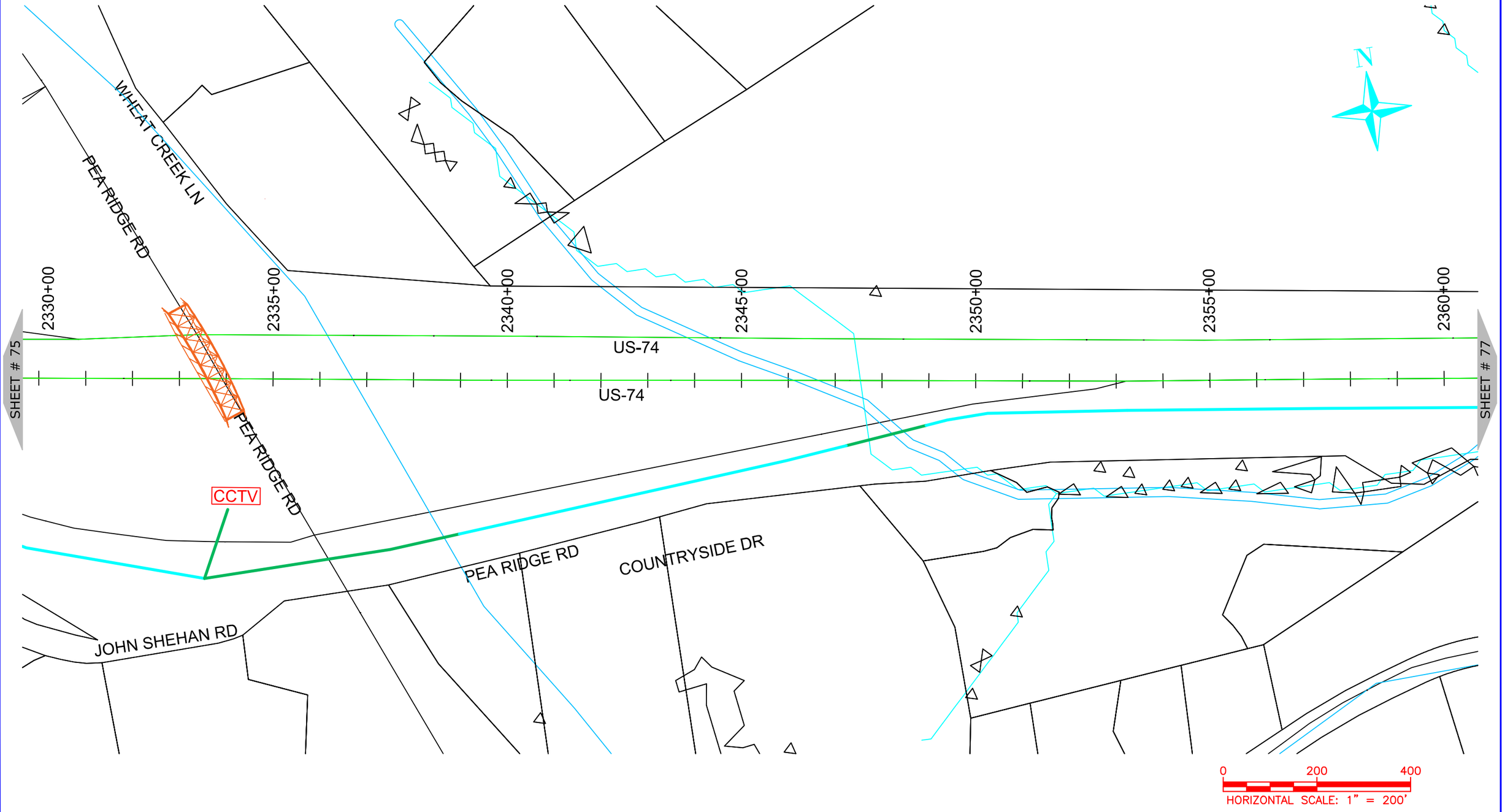
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 75

SHEET: 75

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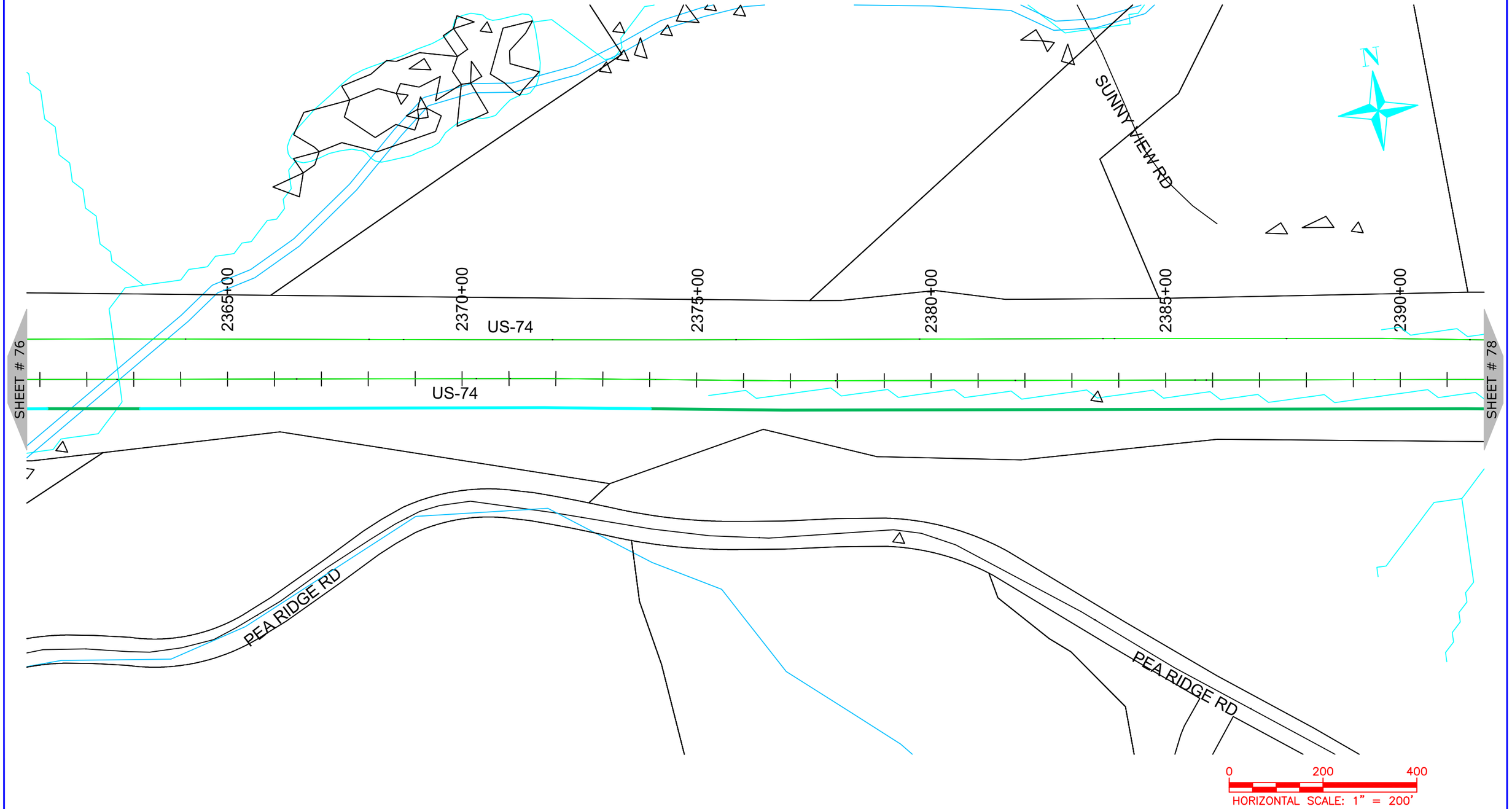
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
76

SHEET:
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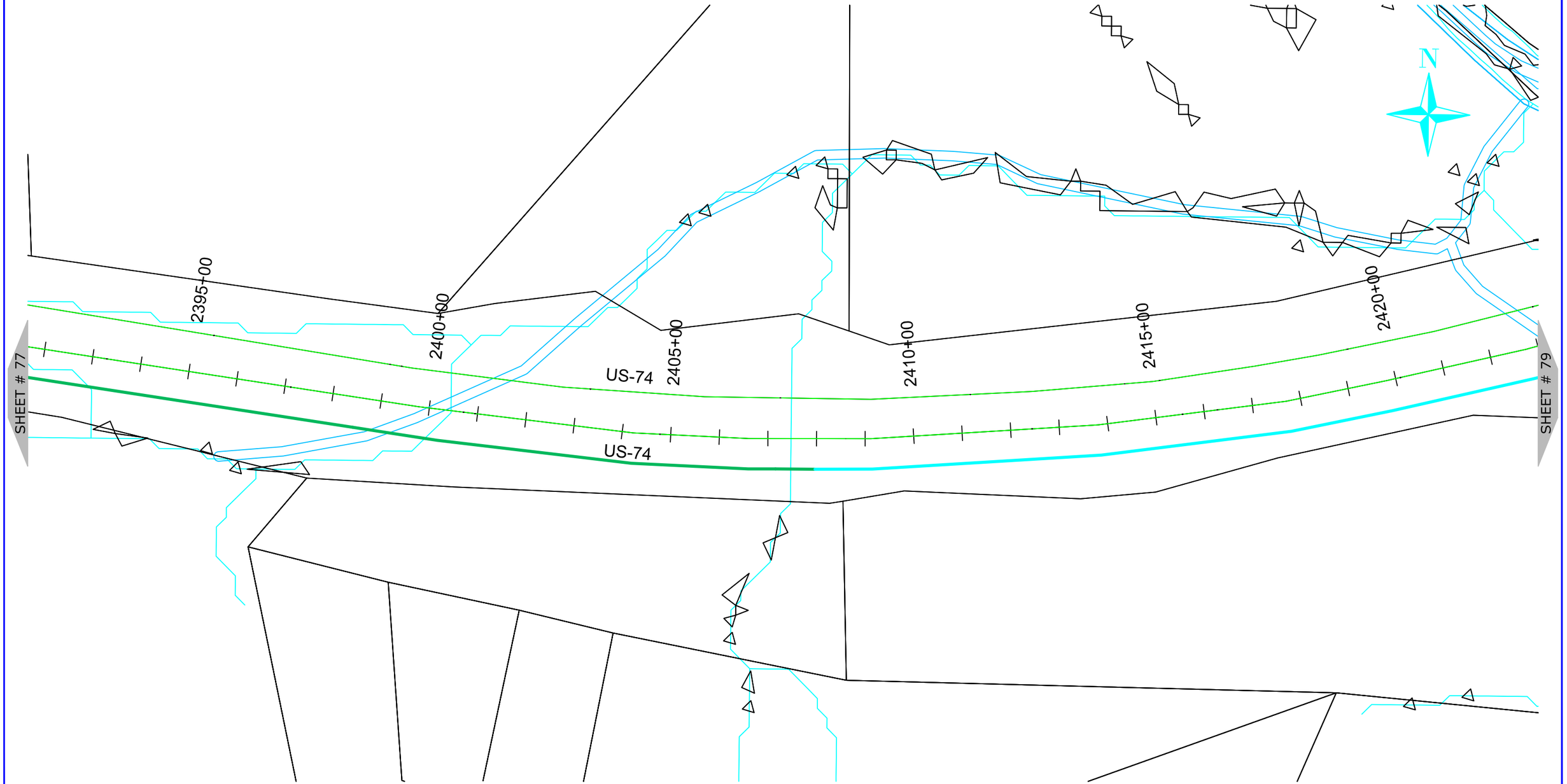
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 77

SHEET: 77

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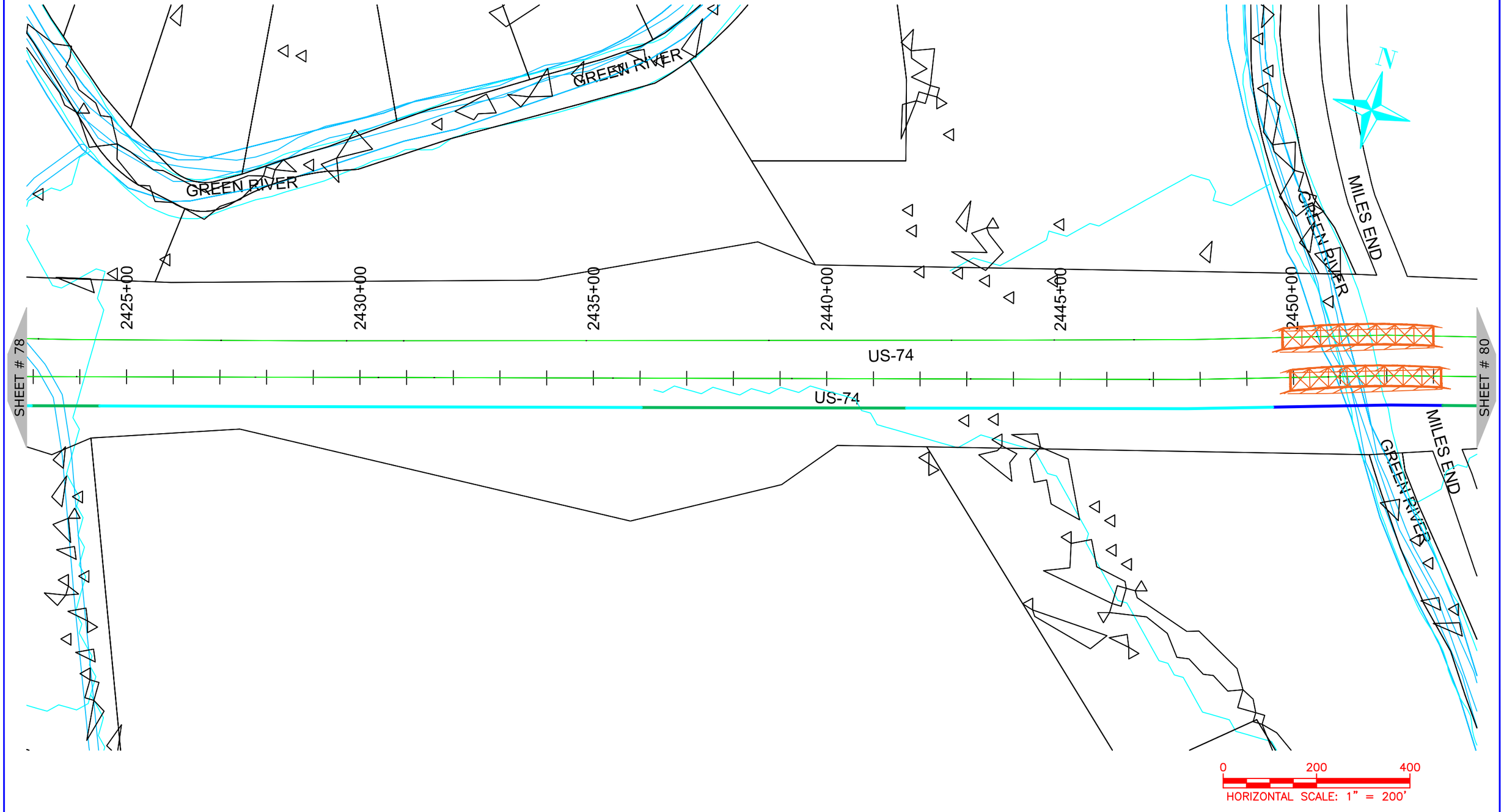
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PROJECT NAME: US-74

SHEET NAME: 78

SHEET: 78

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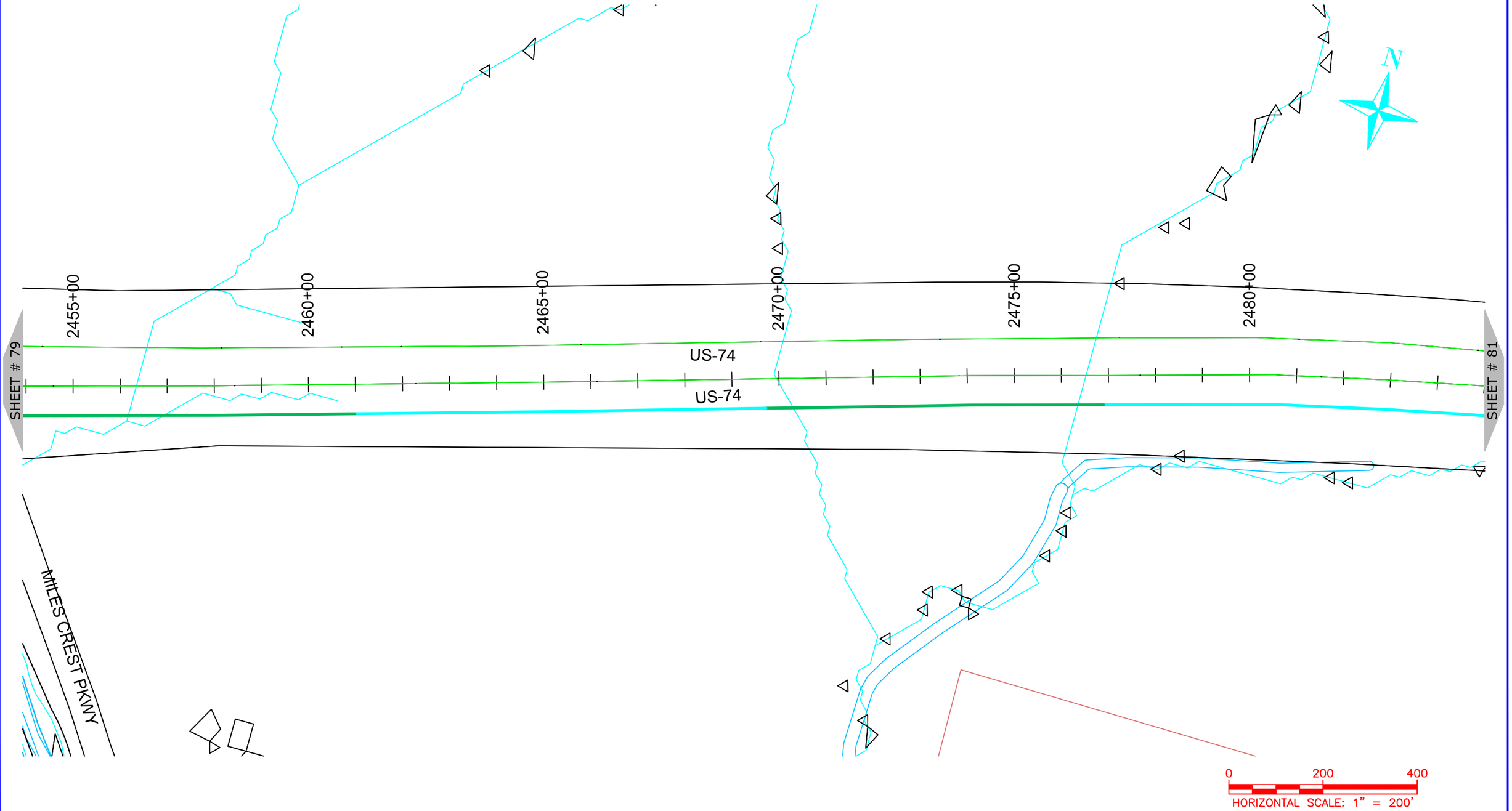
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PROJECT NAME: US-74

SHEET NAME: 79

SHEET: 79

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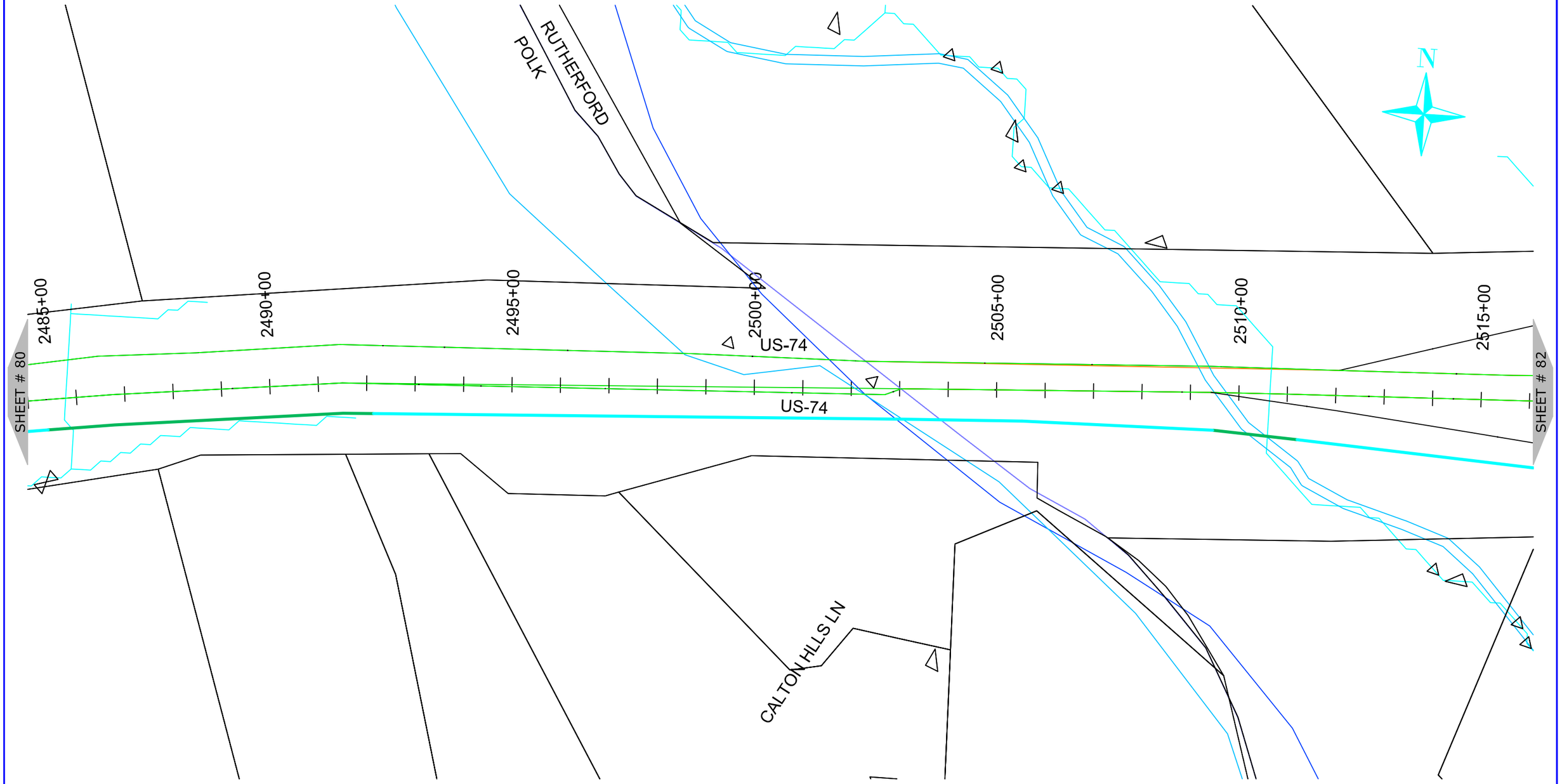
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 80

SHEET: 80

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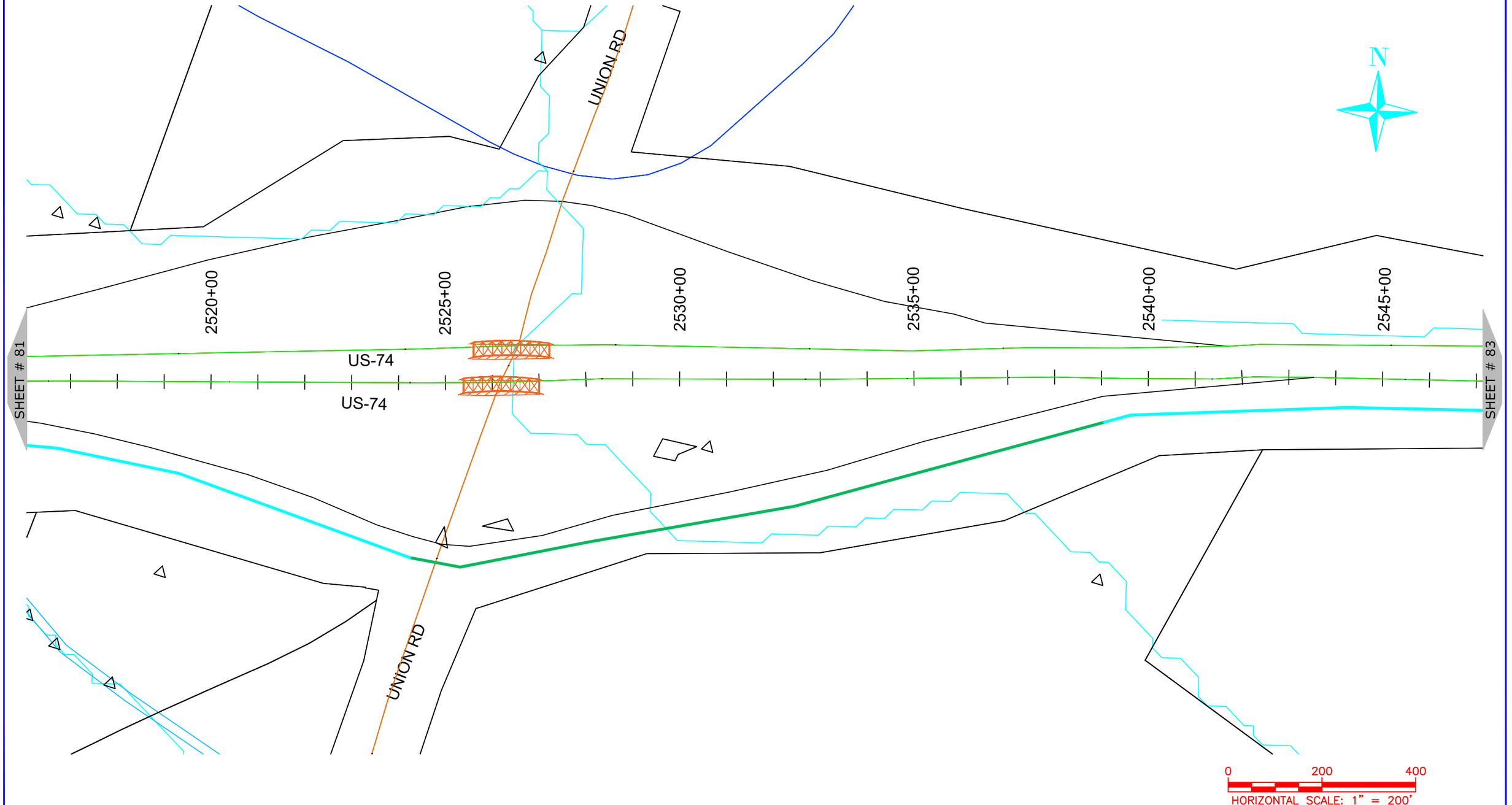
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 81

SHEET: 81

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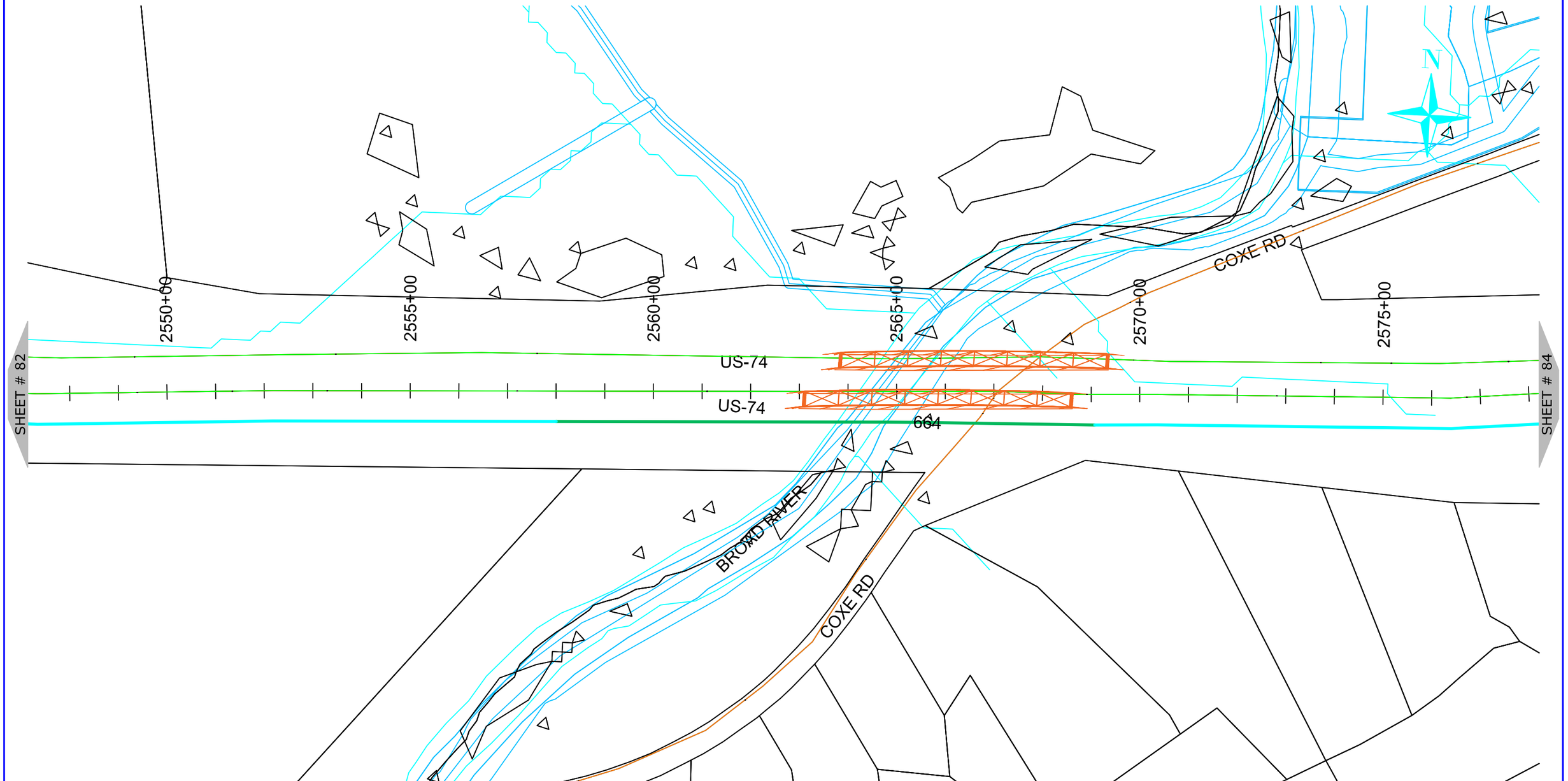
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 82

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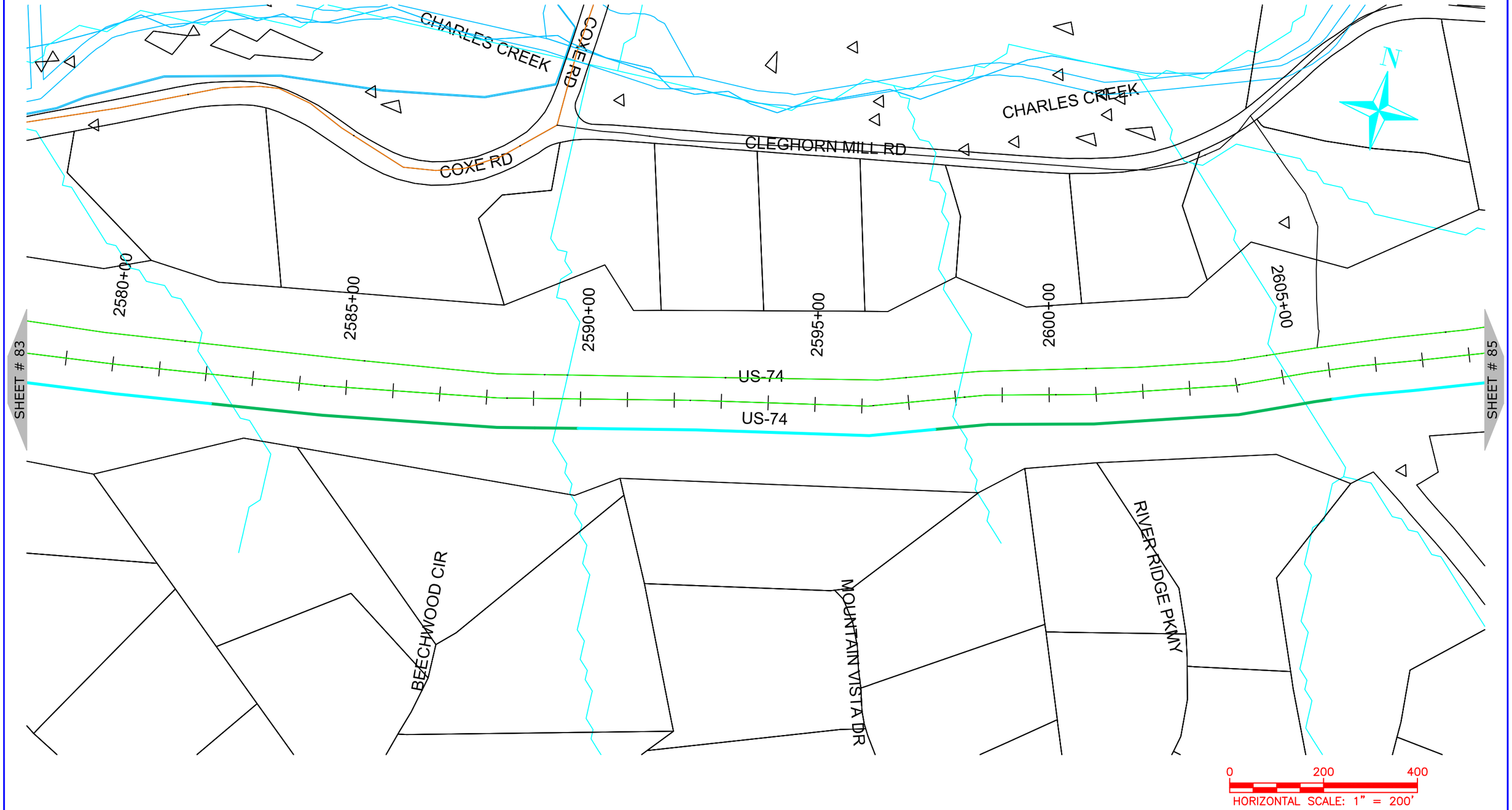
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 83

SHEET: 83

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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 84

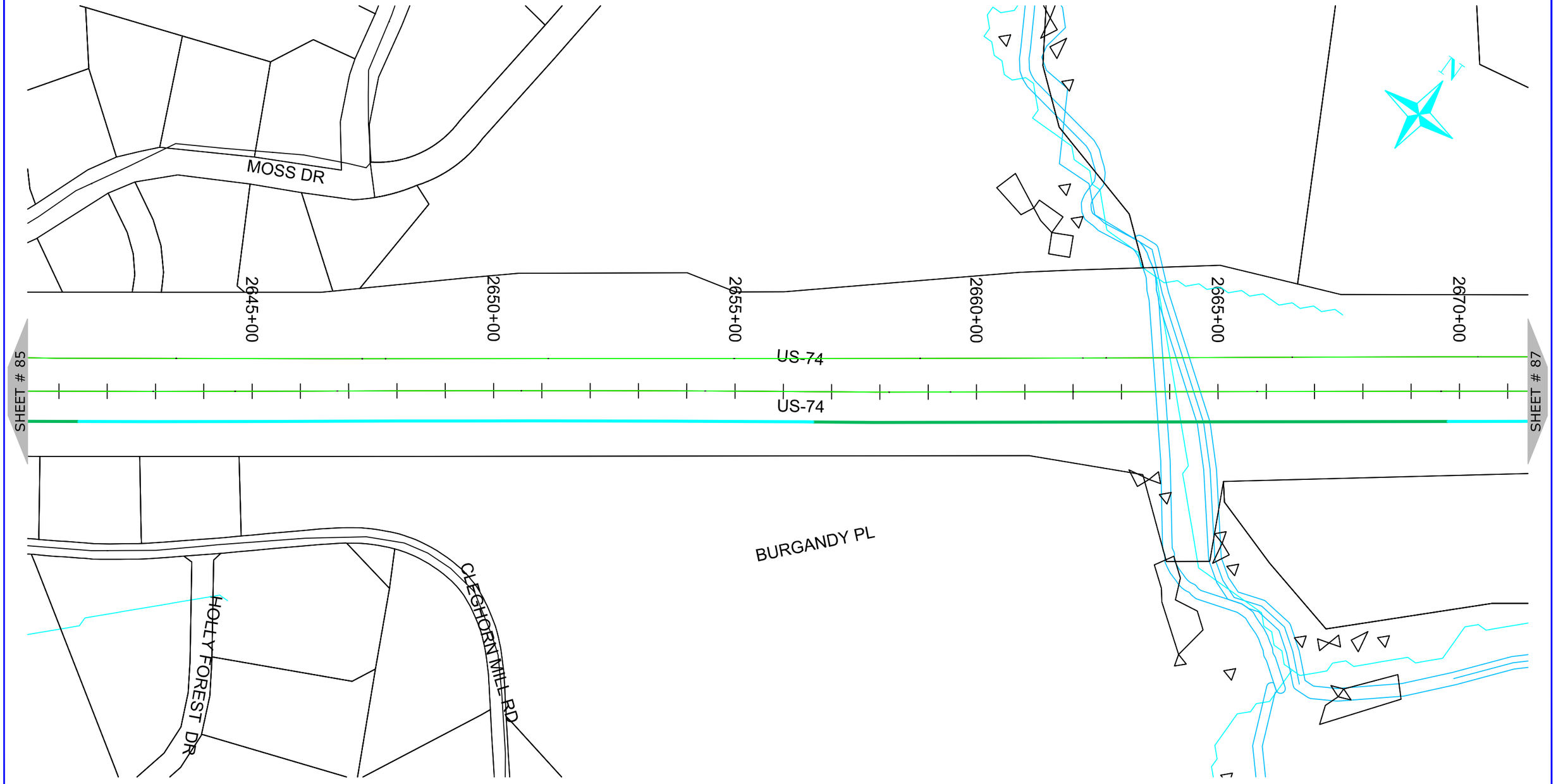
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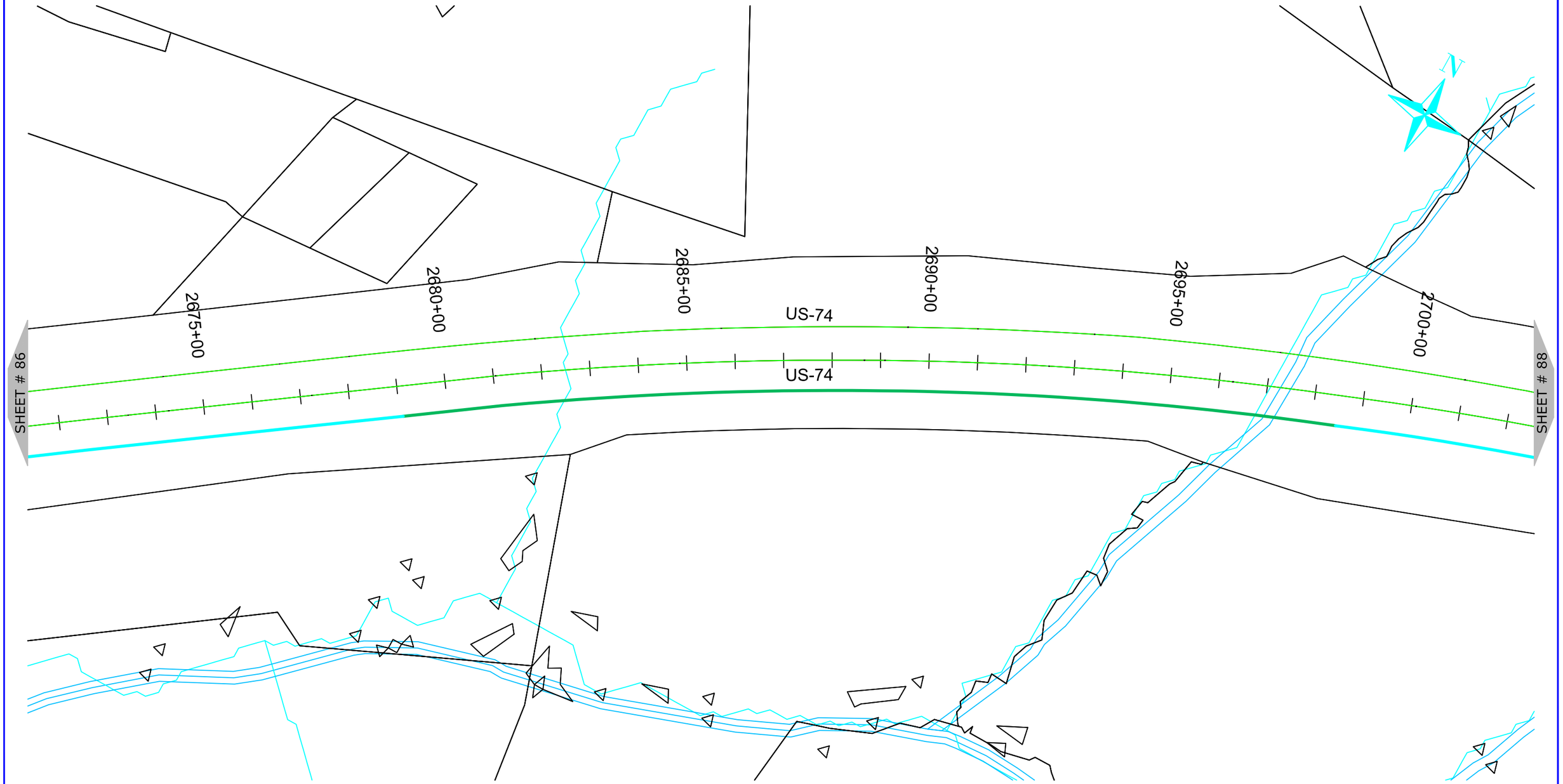
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 86

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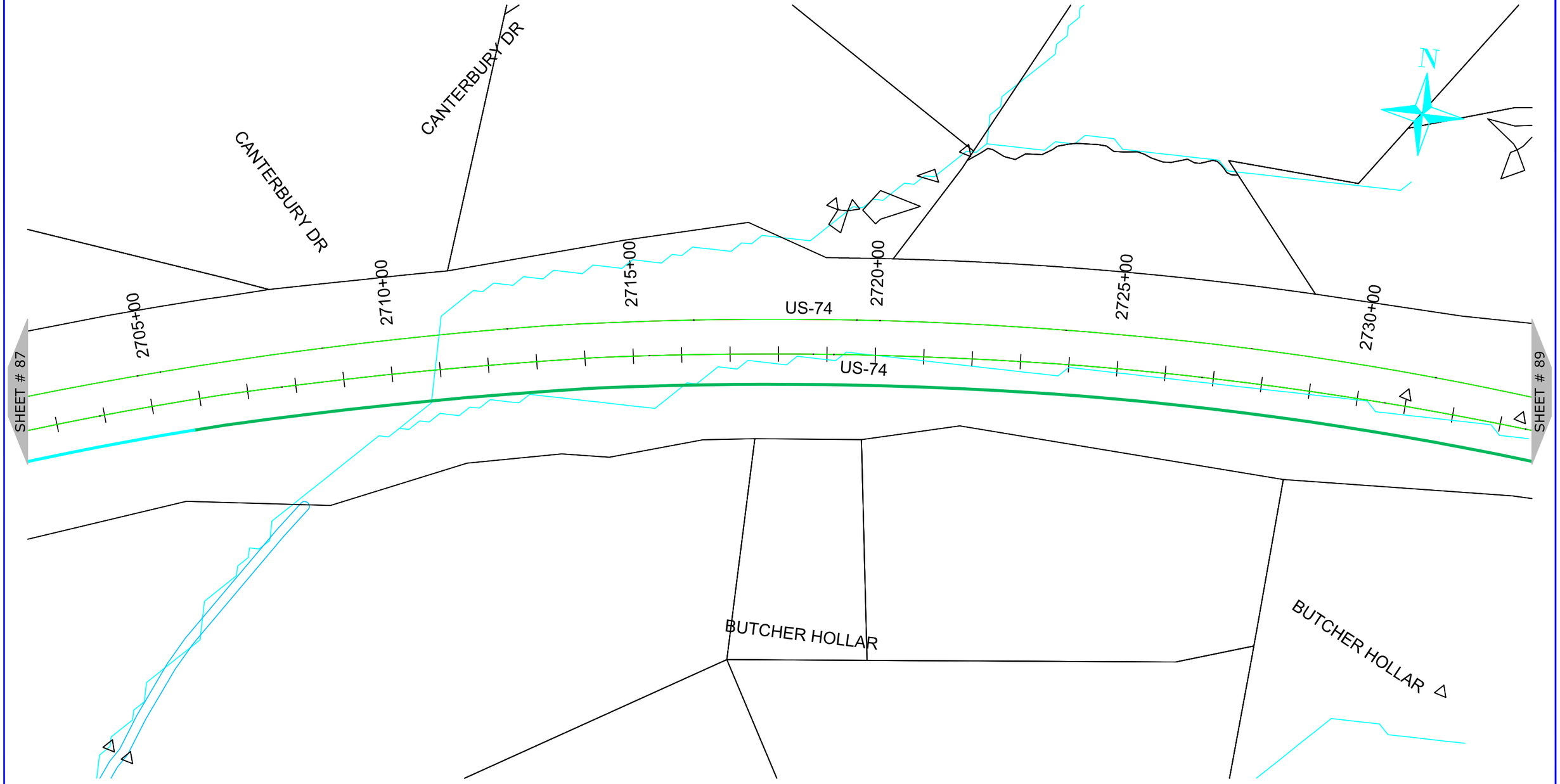
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PROJECT NAME: US-74

SHEET NAME: 87

SHEET: 87

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(919) 876-5455

REV	DATE	DESCRIPTION
		RUTHERFORD

OWNER:

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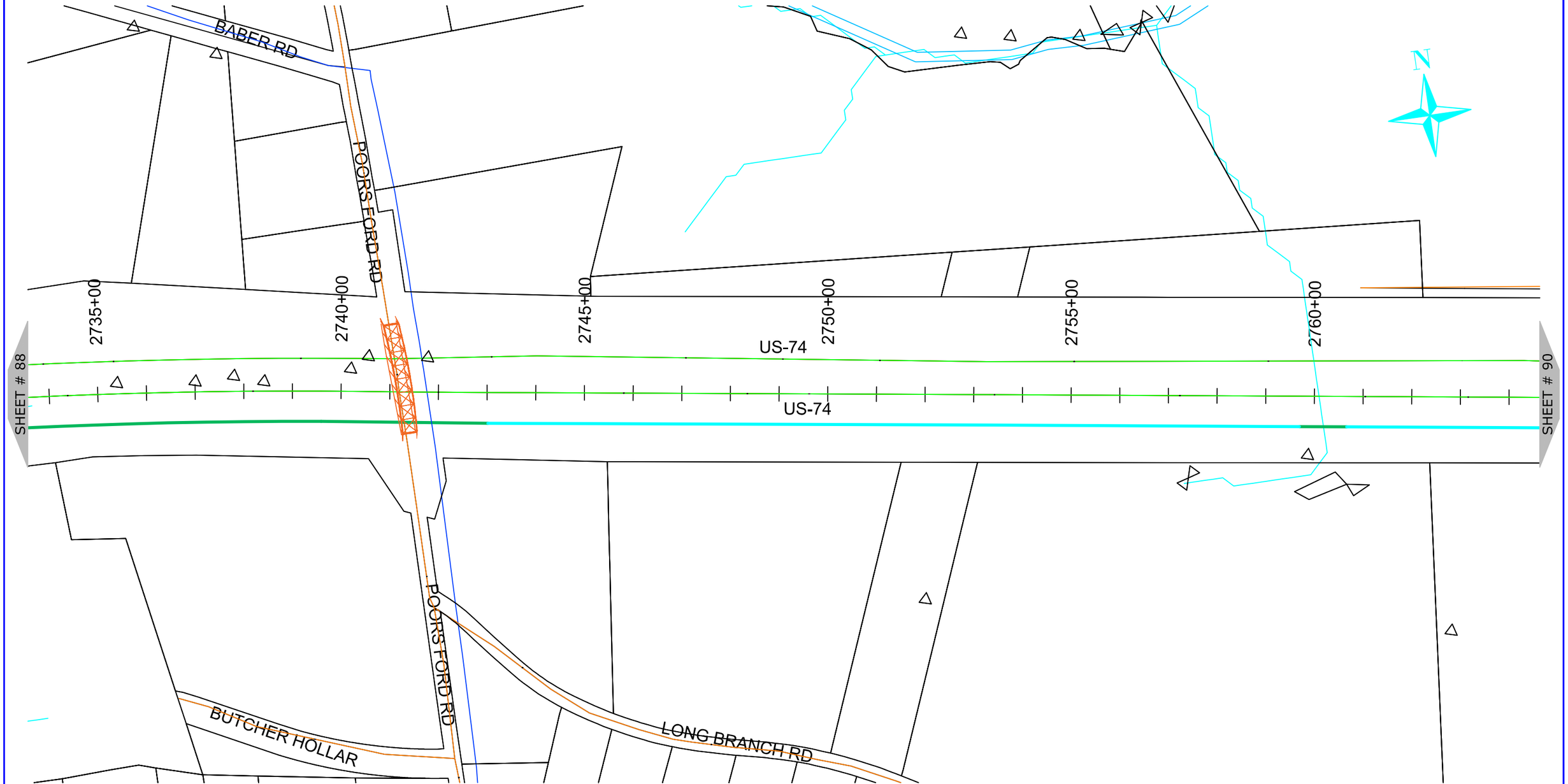
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
88

SHEET:
88

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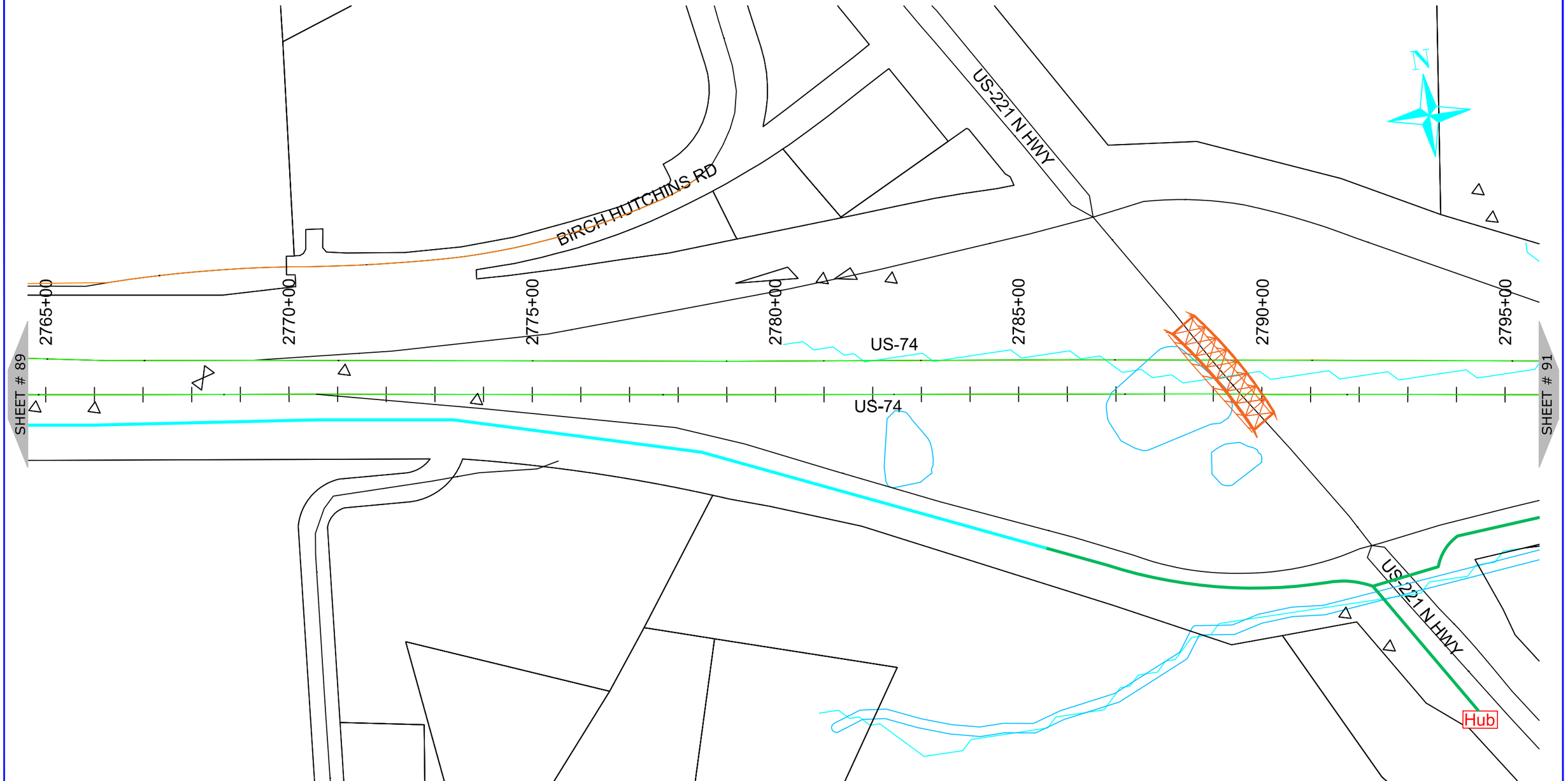
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 89

SHEET: 89

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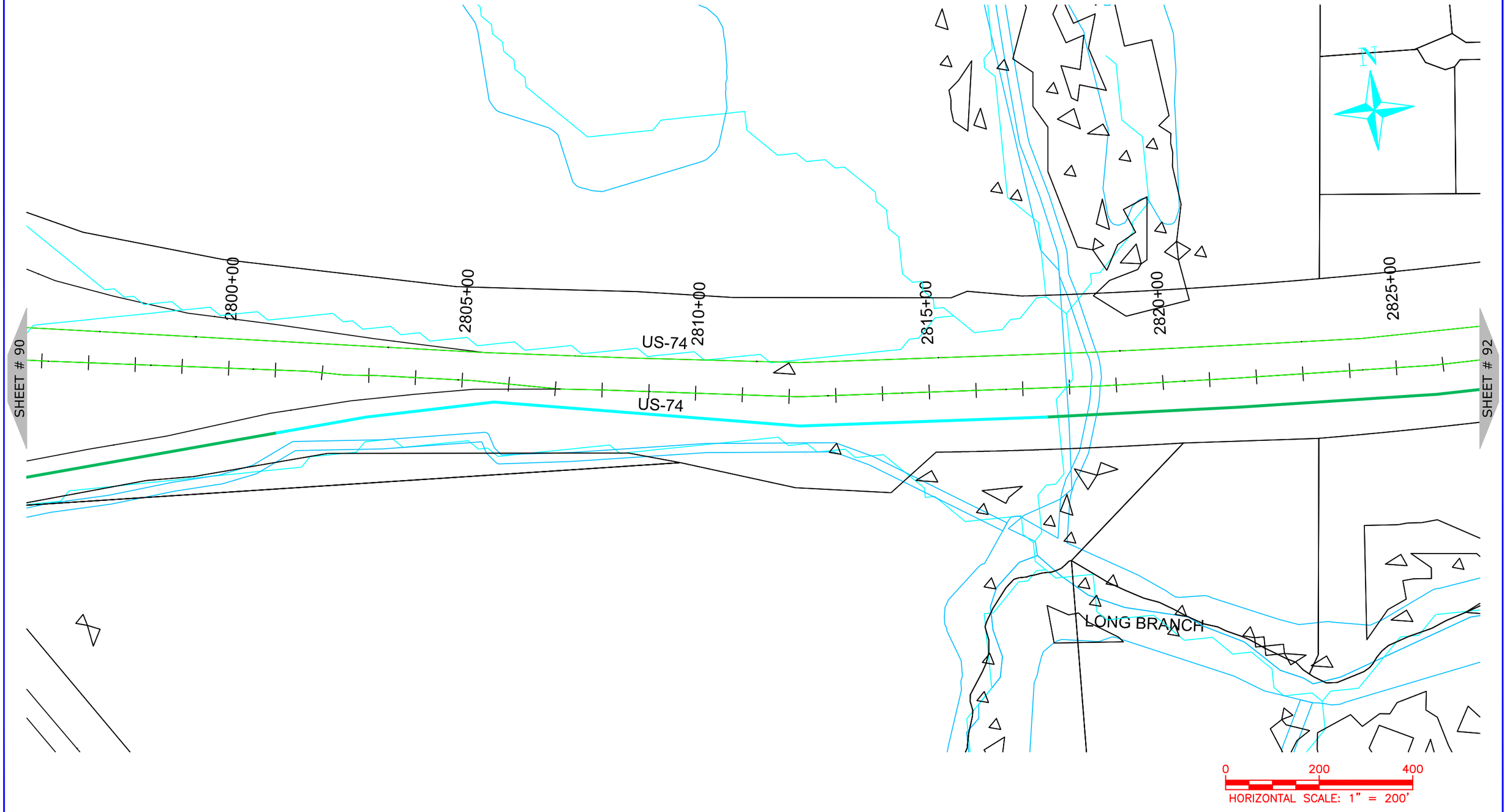
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
90

SHEET:
90

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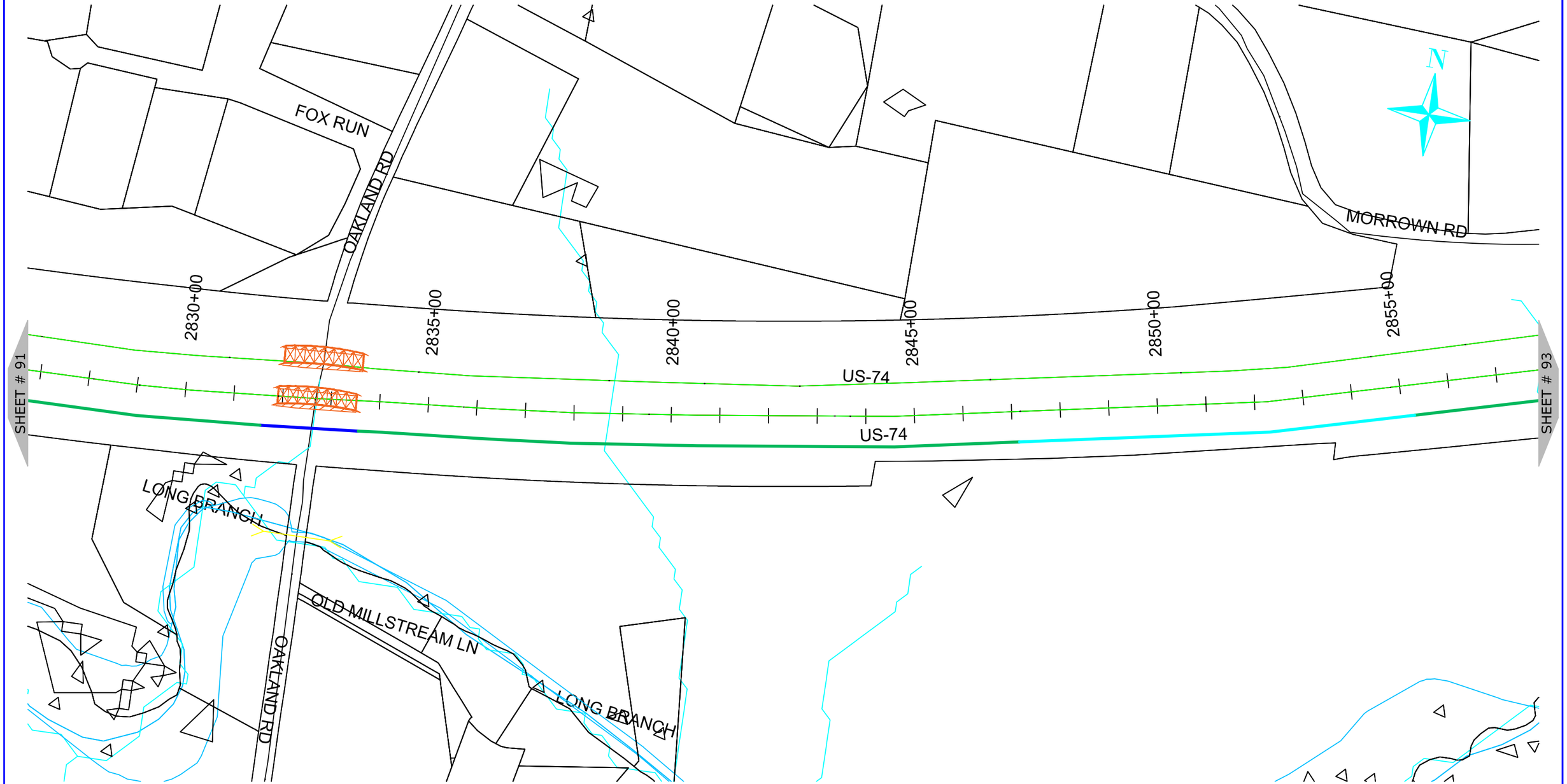
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
91

SHEET:
91

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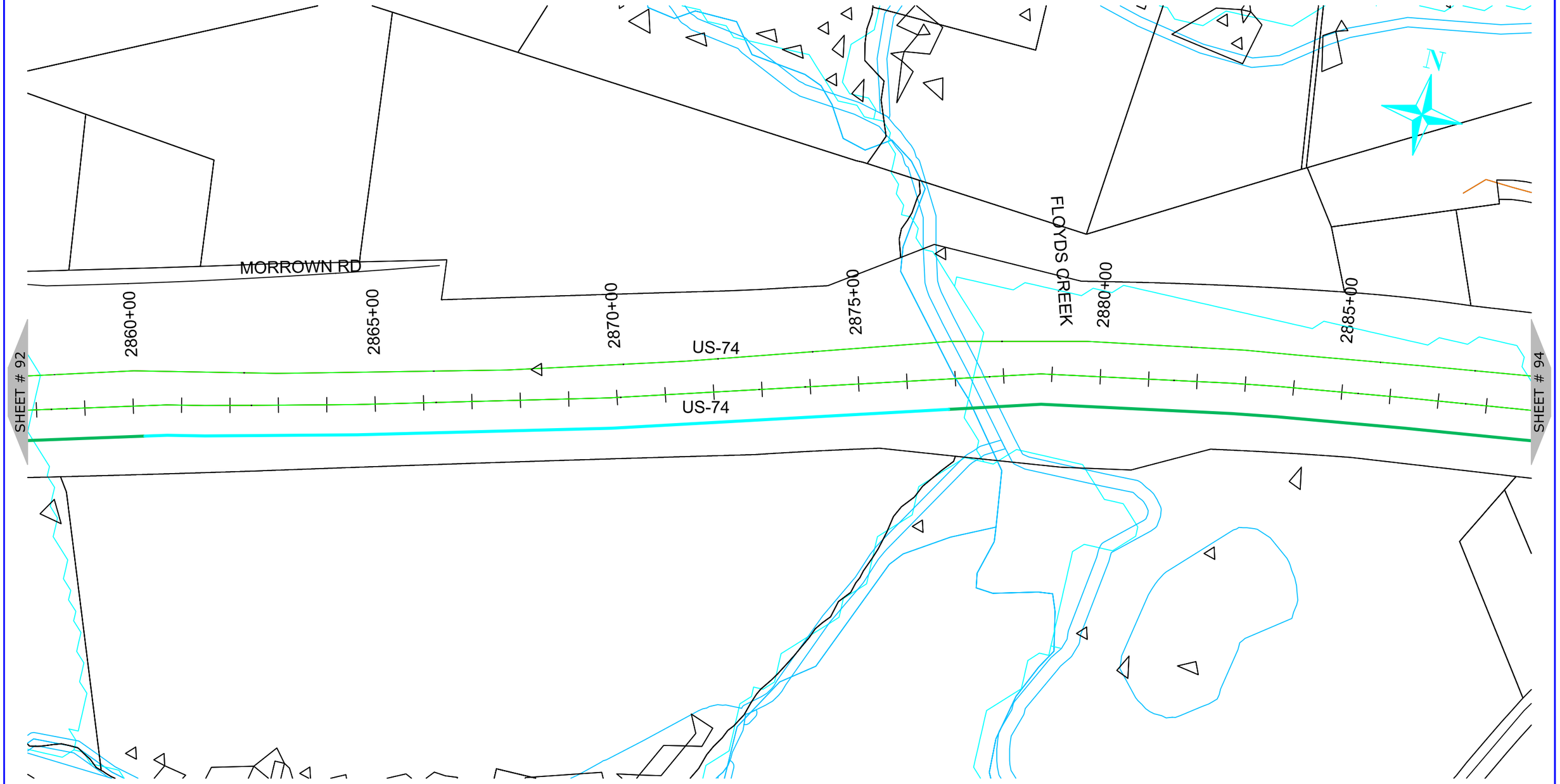
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PROJECT NAME: US-74

SHEET NAME: 92

SHEET: 92

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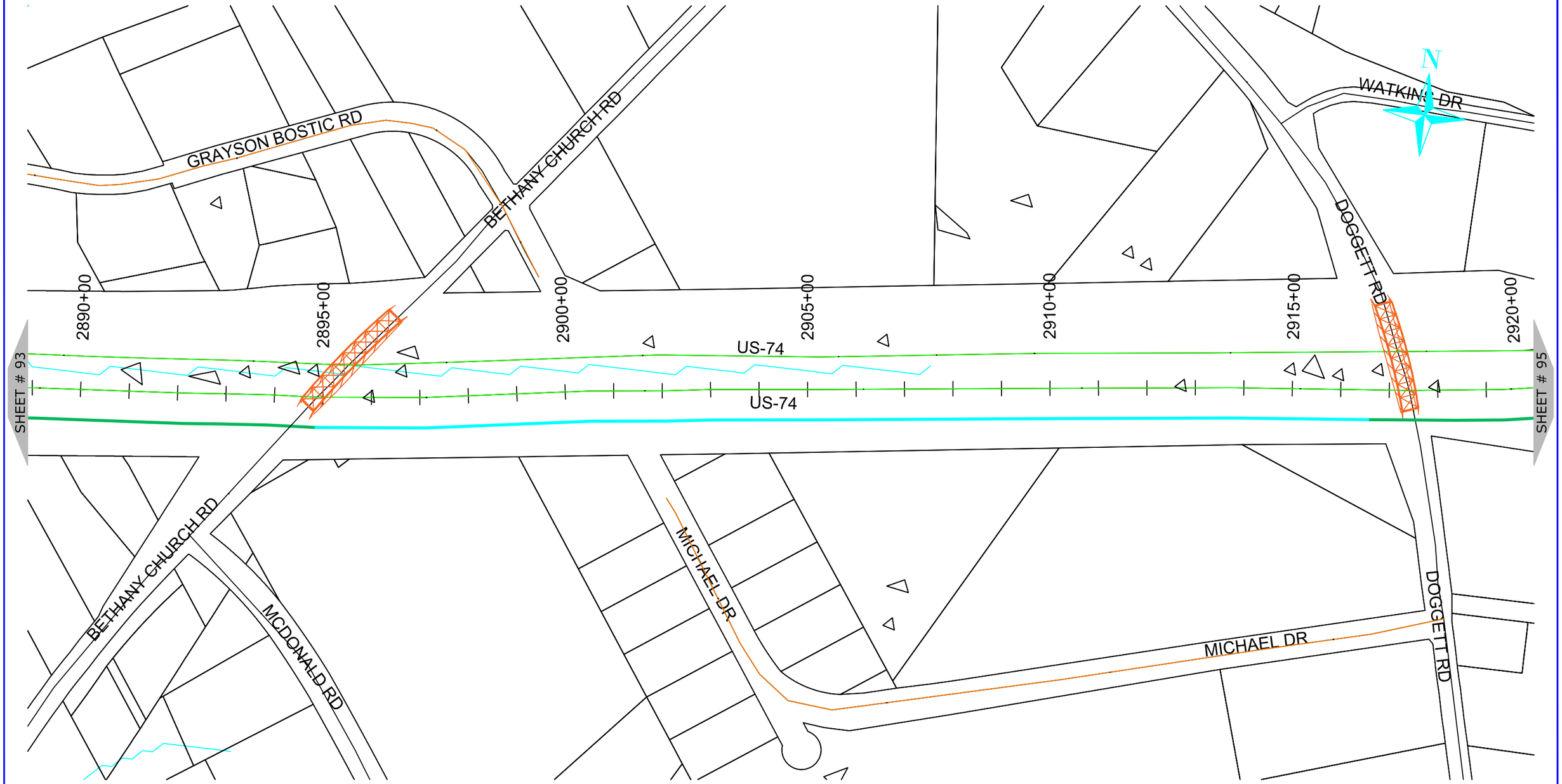
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PROJECT NAME: US-74

SHEET NAME: 93

SHEET: 93

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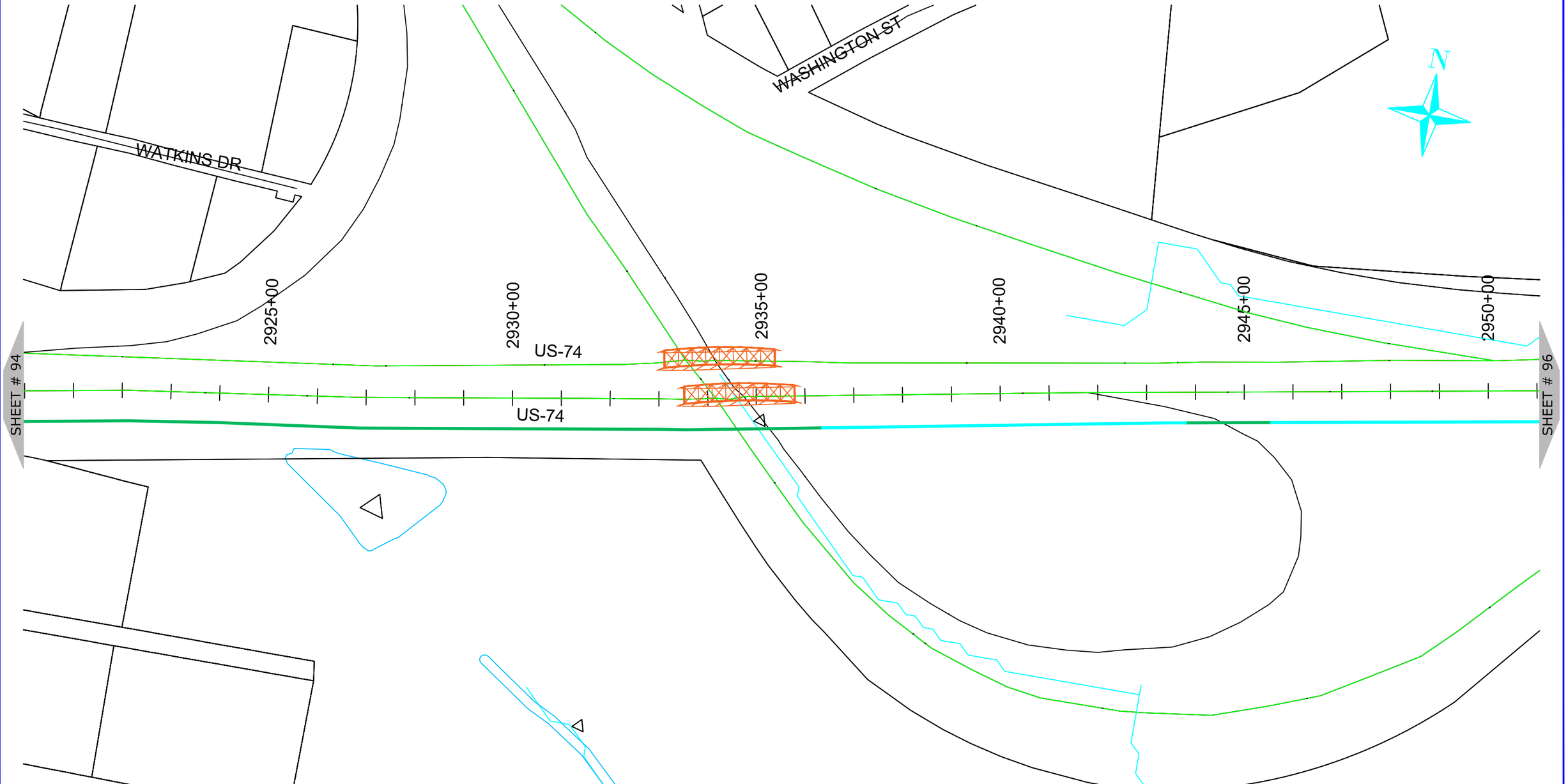
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DESIGNED BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
94

SHEET:
94

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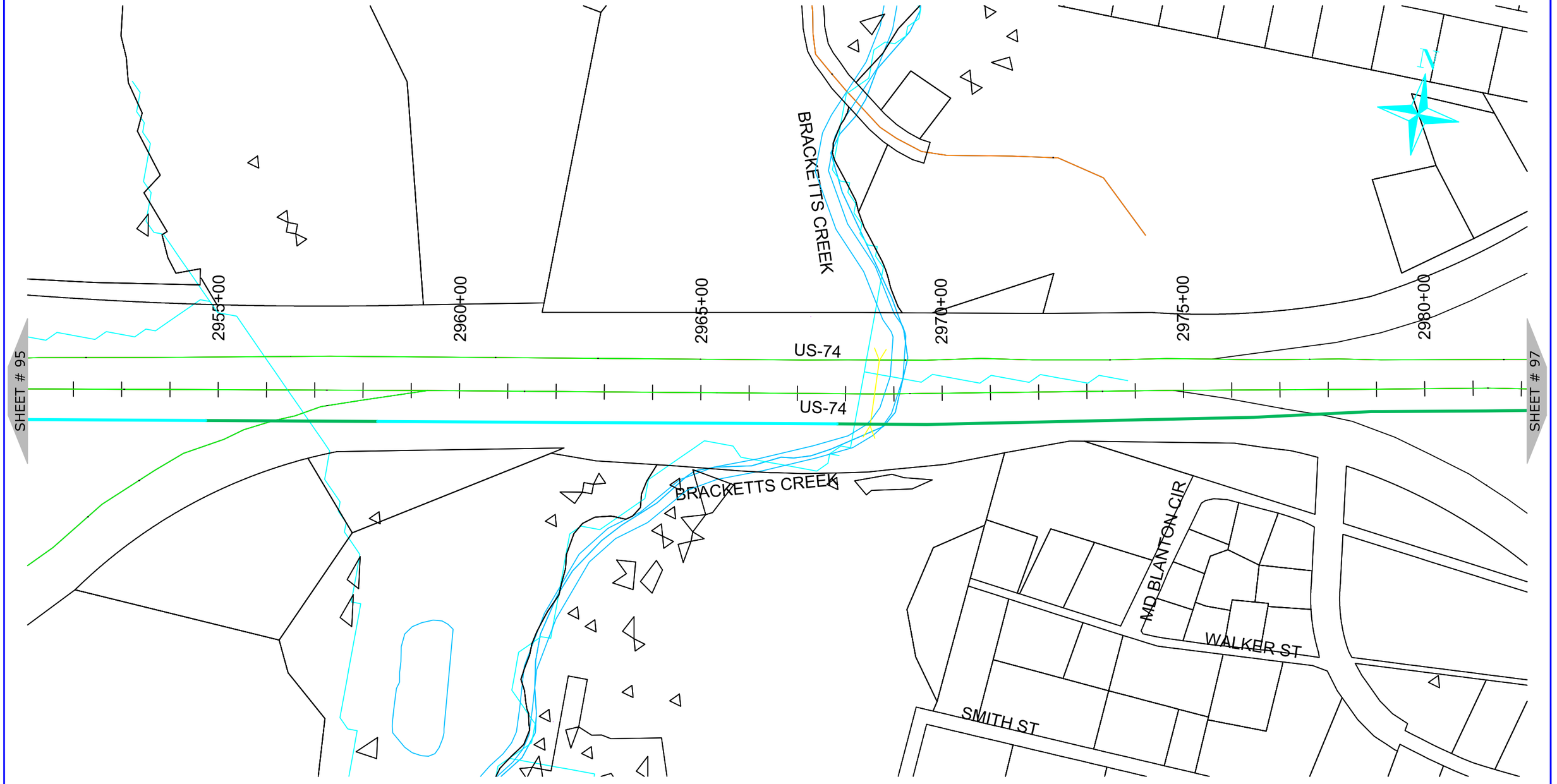
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PROJECT NAME: US-74

SHEET NAME: 95

SHEET: 95

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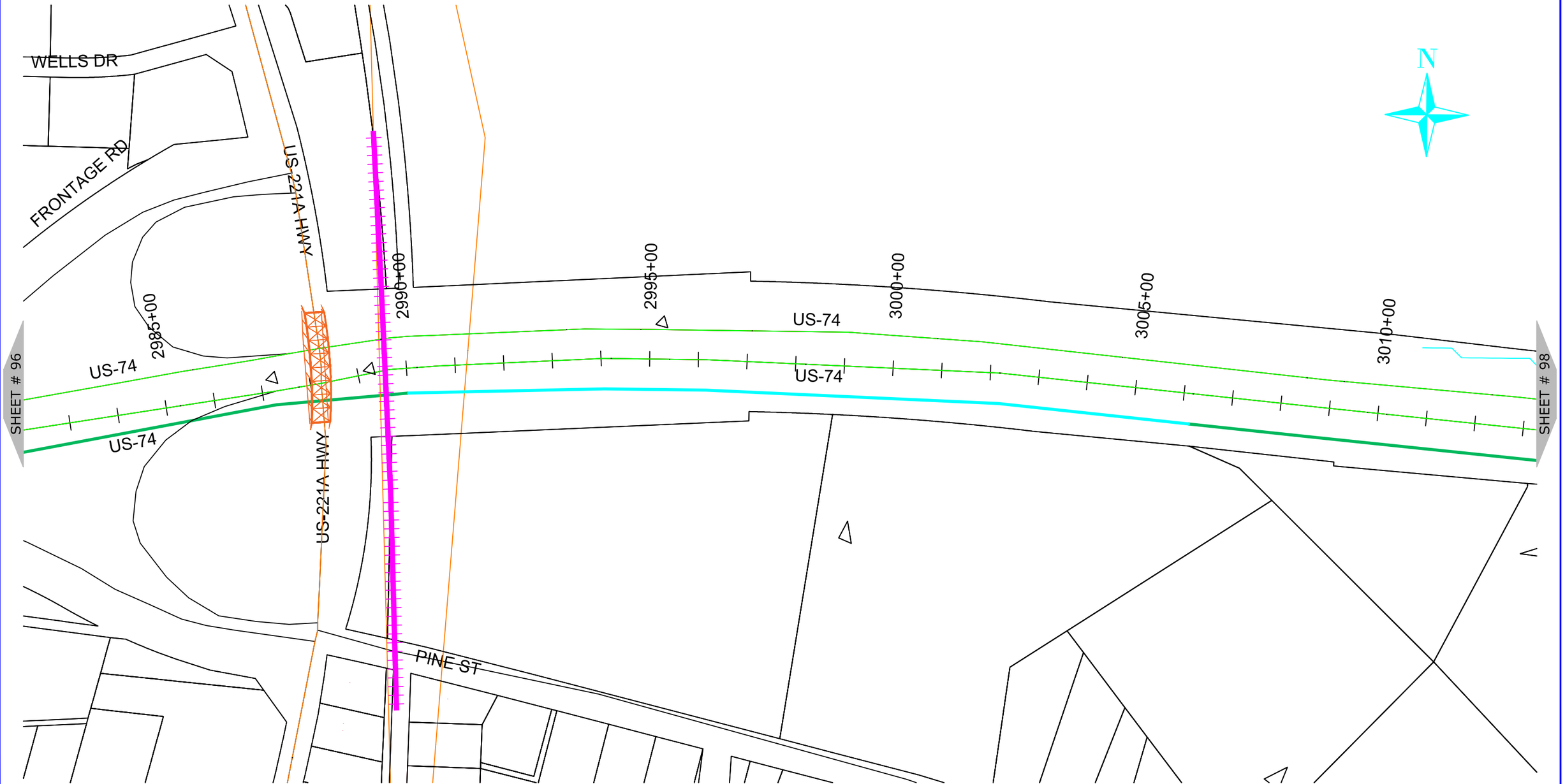
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PROJECT NAME: US-74

SHEET NAME: 96

SHEET: 96

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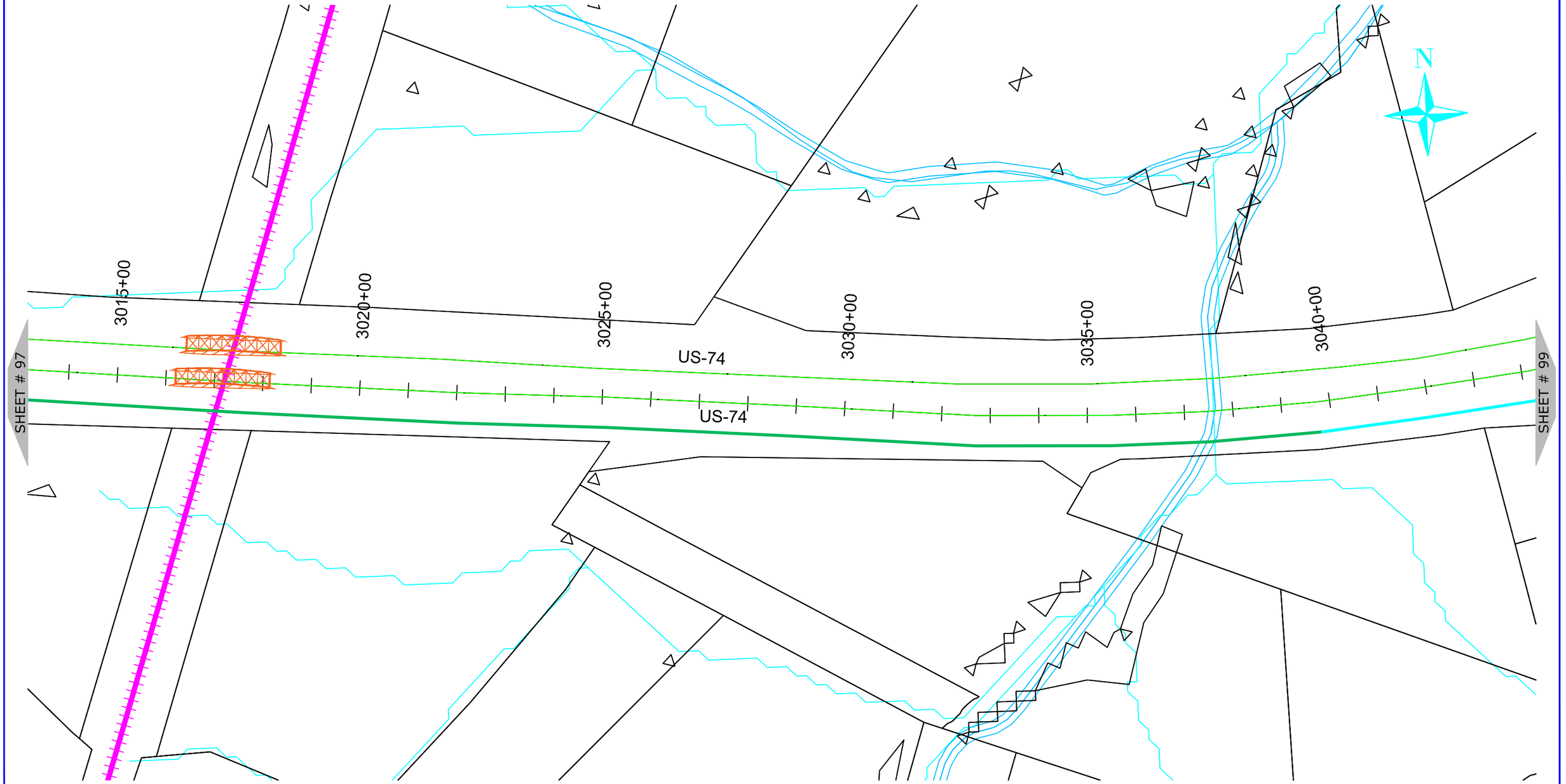
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PROJECT NAME: US-74

SHEET NAME: 97

SHEET: 97

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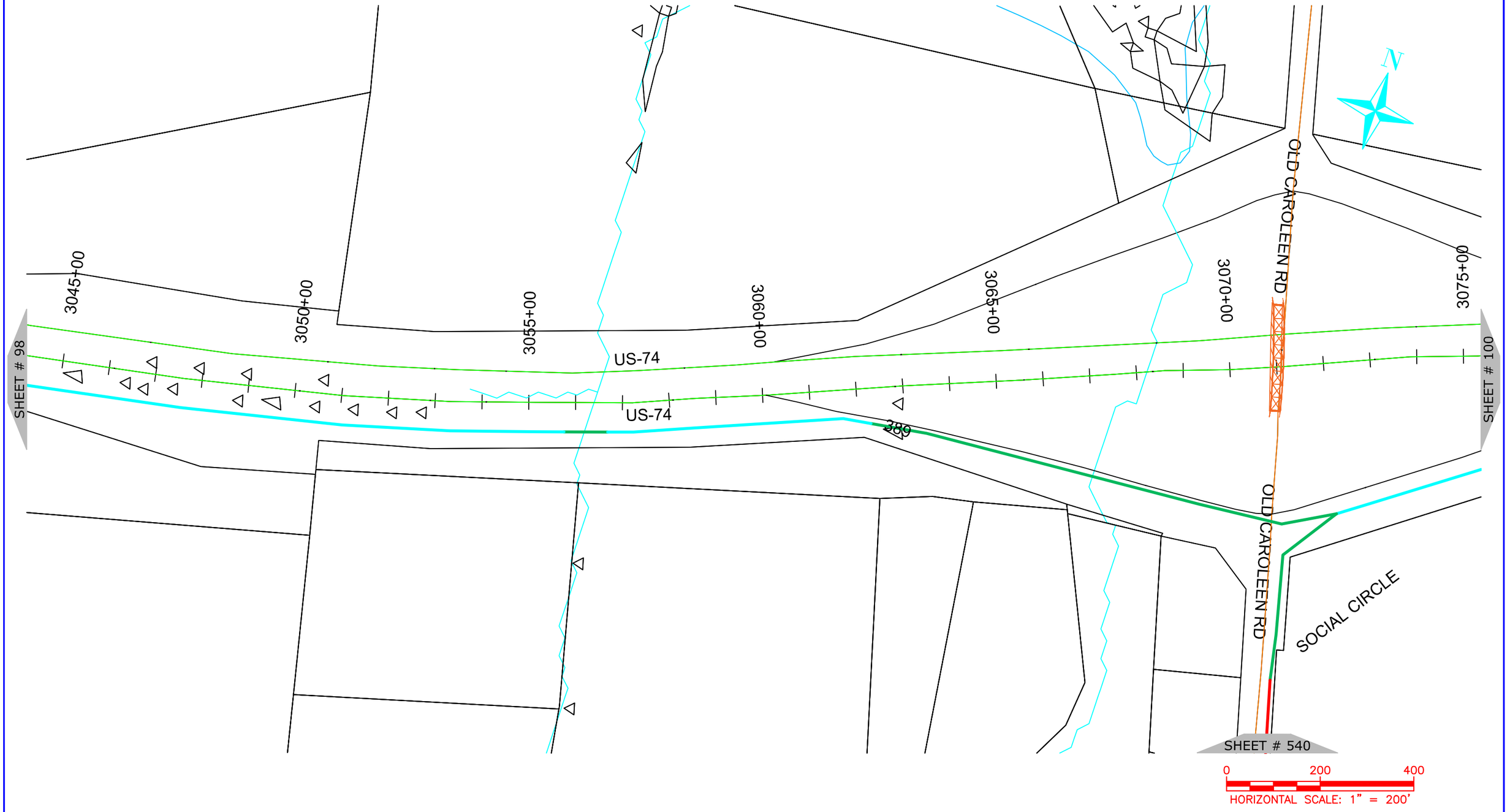
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PROJECT NAME: US-74

SHEET NAME: 98

SHEET: 98

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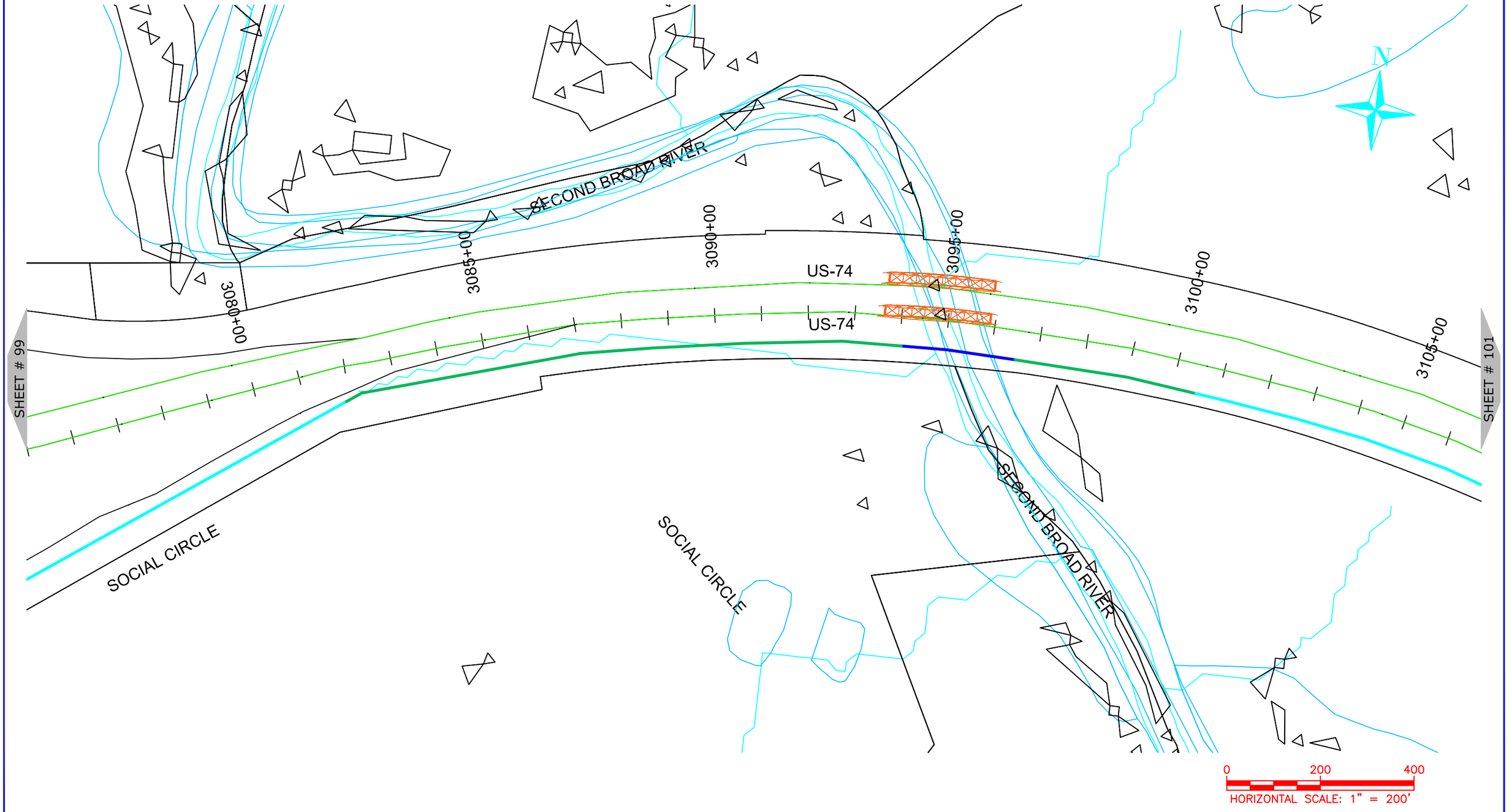
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DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
99

SHEET:
99

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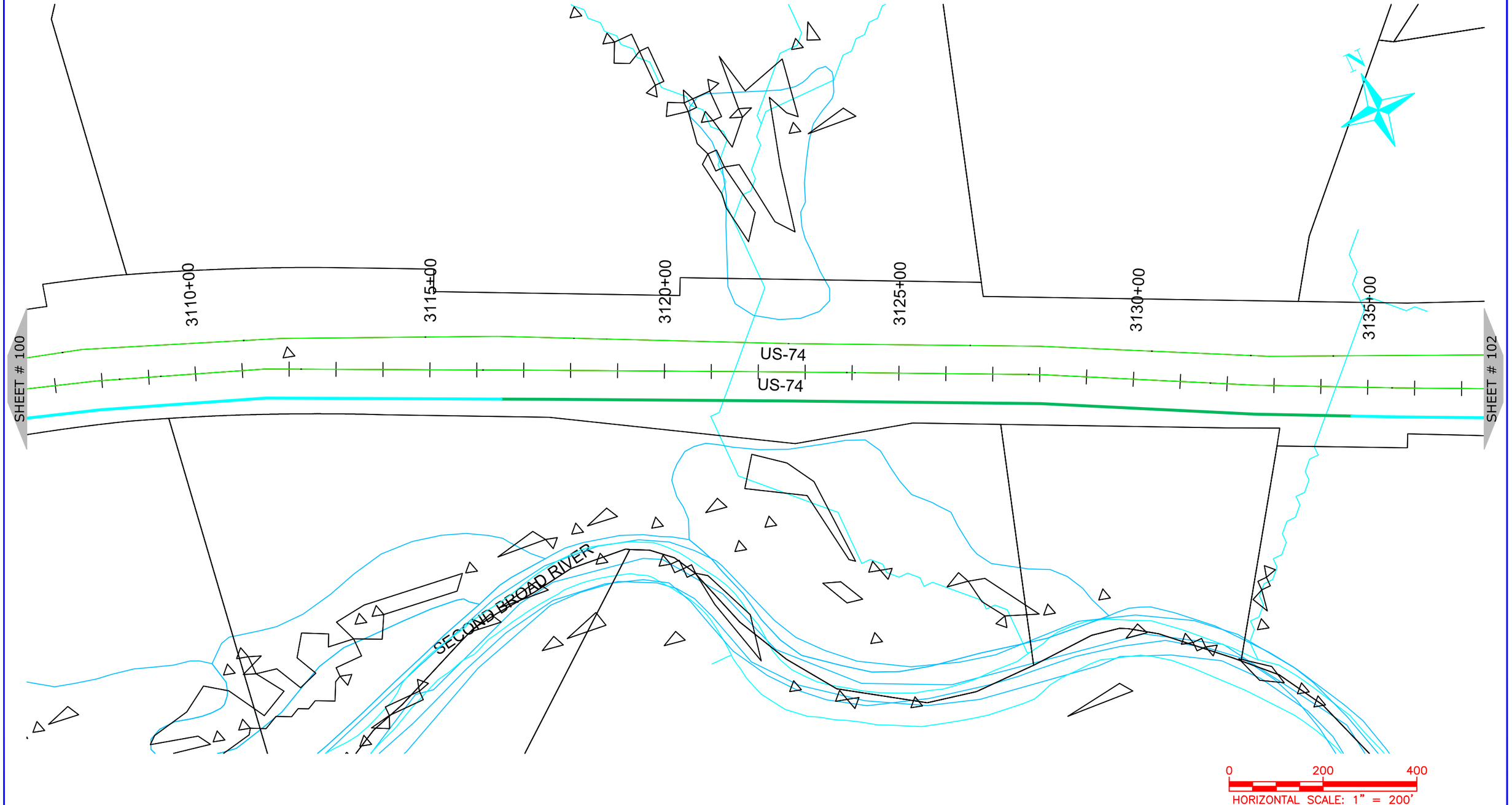
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PROJECT NAME: US-74

SHEET NAME: 100

SHEET: 100

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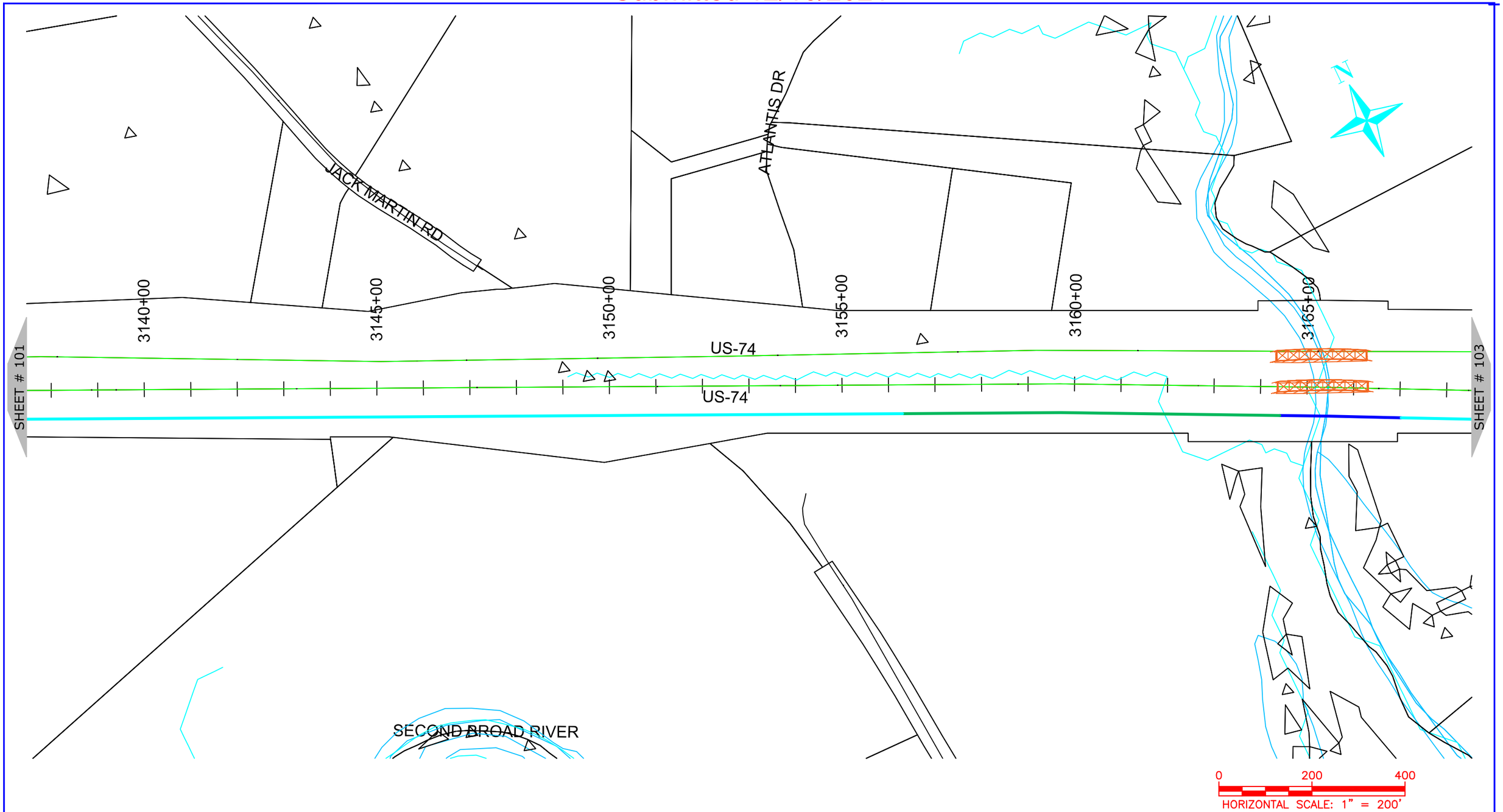
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 101

SHEET: 101

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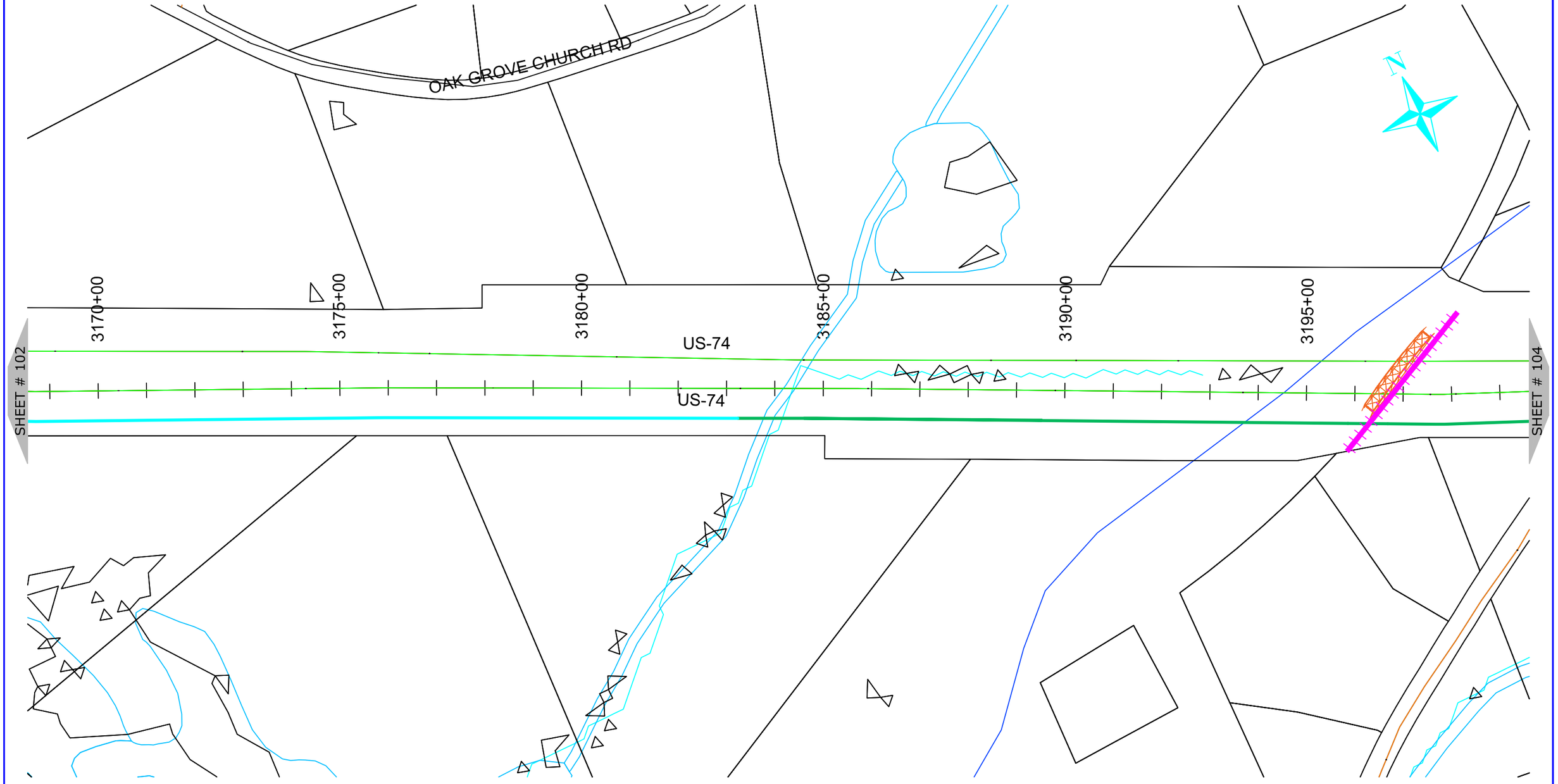
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PROJECT NAME:
US-74

SHEET NAME:
102

SHEET:
102

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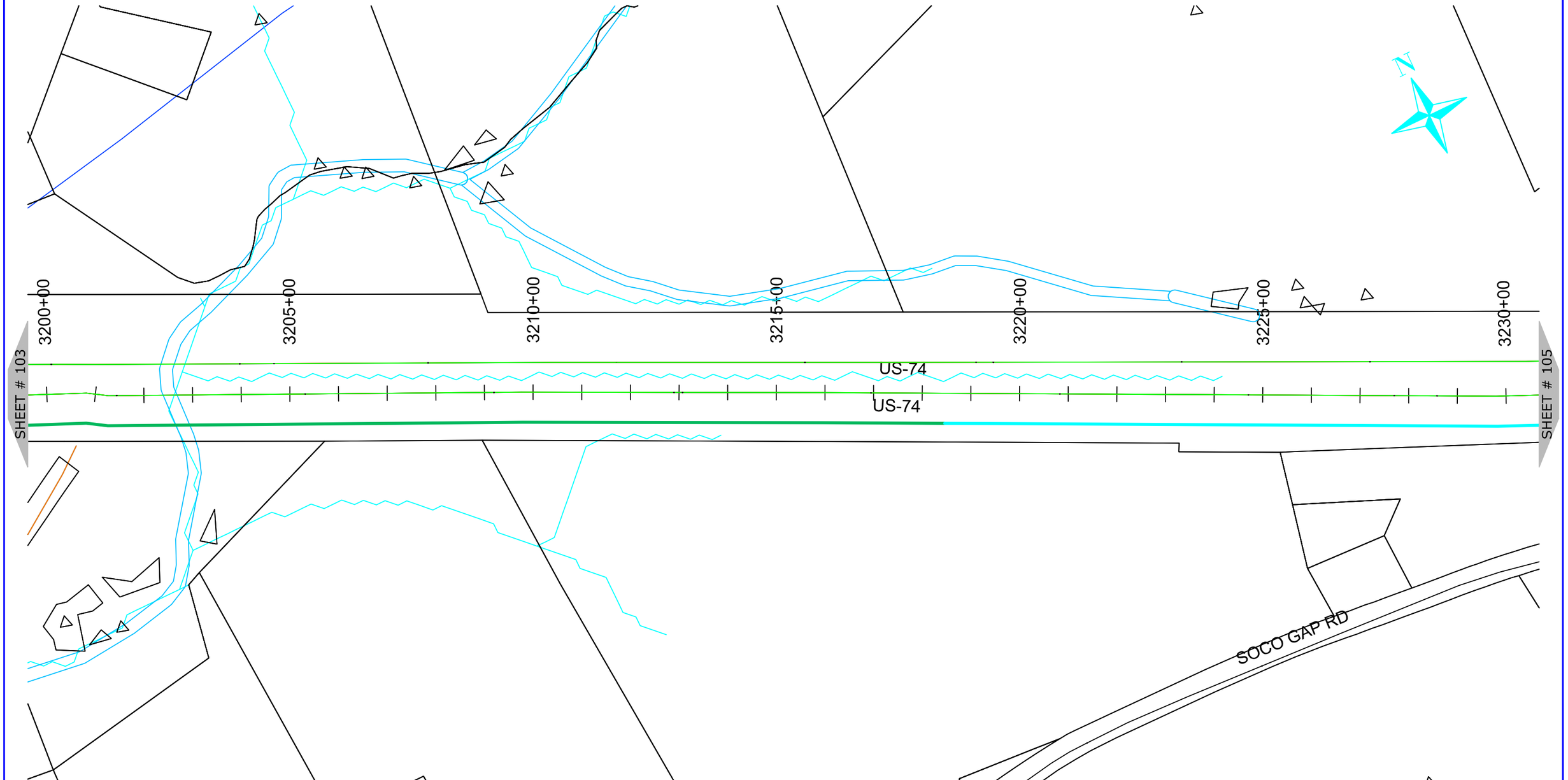
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PROJECT NAME: US-74

SHEET NAME: 103

SHEET: 103

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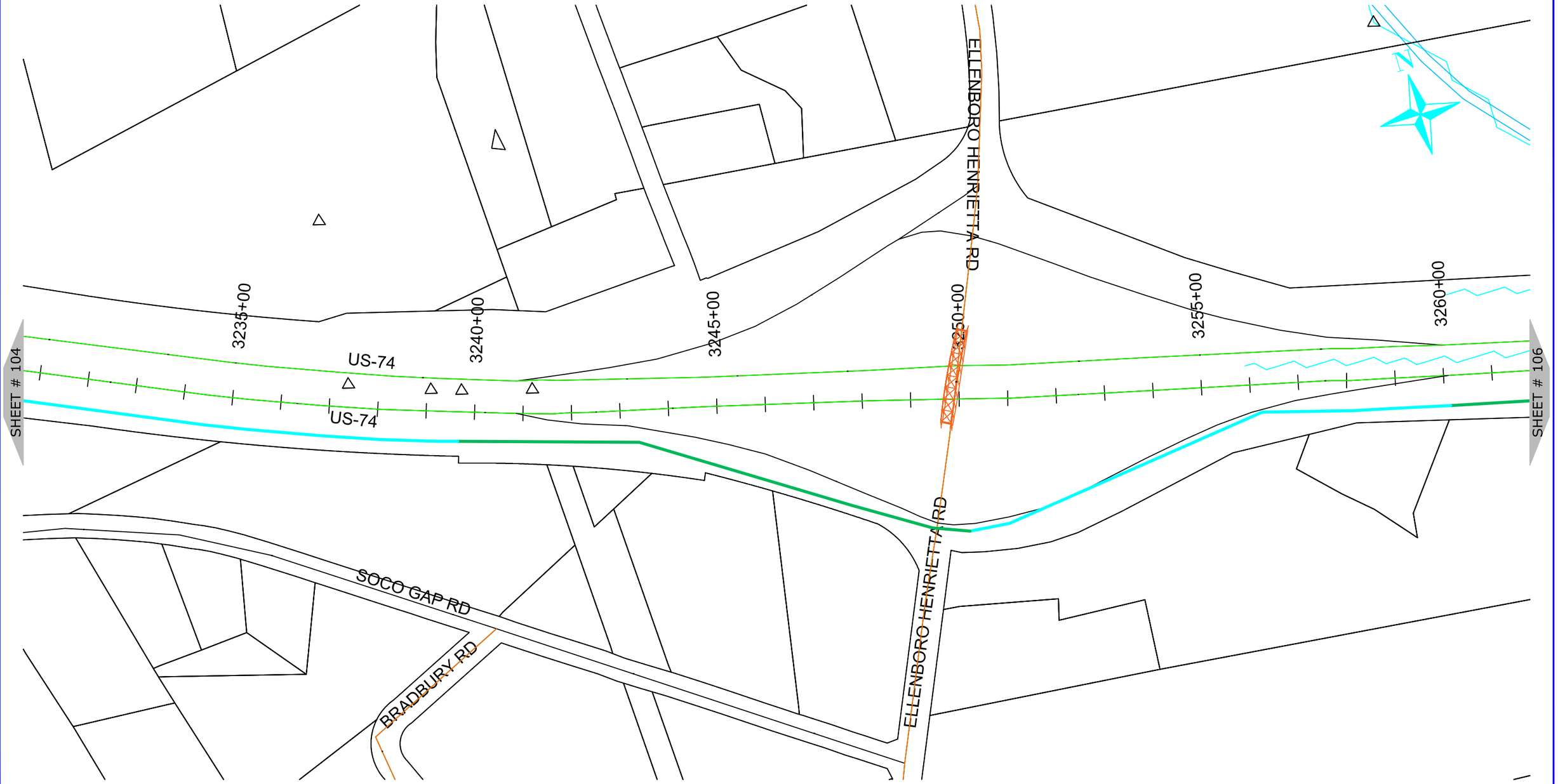
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 104

SHEET: 104

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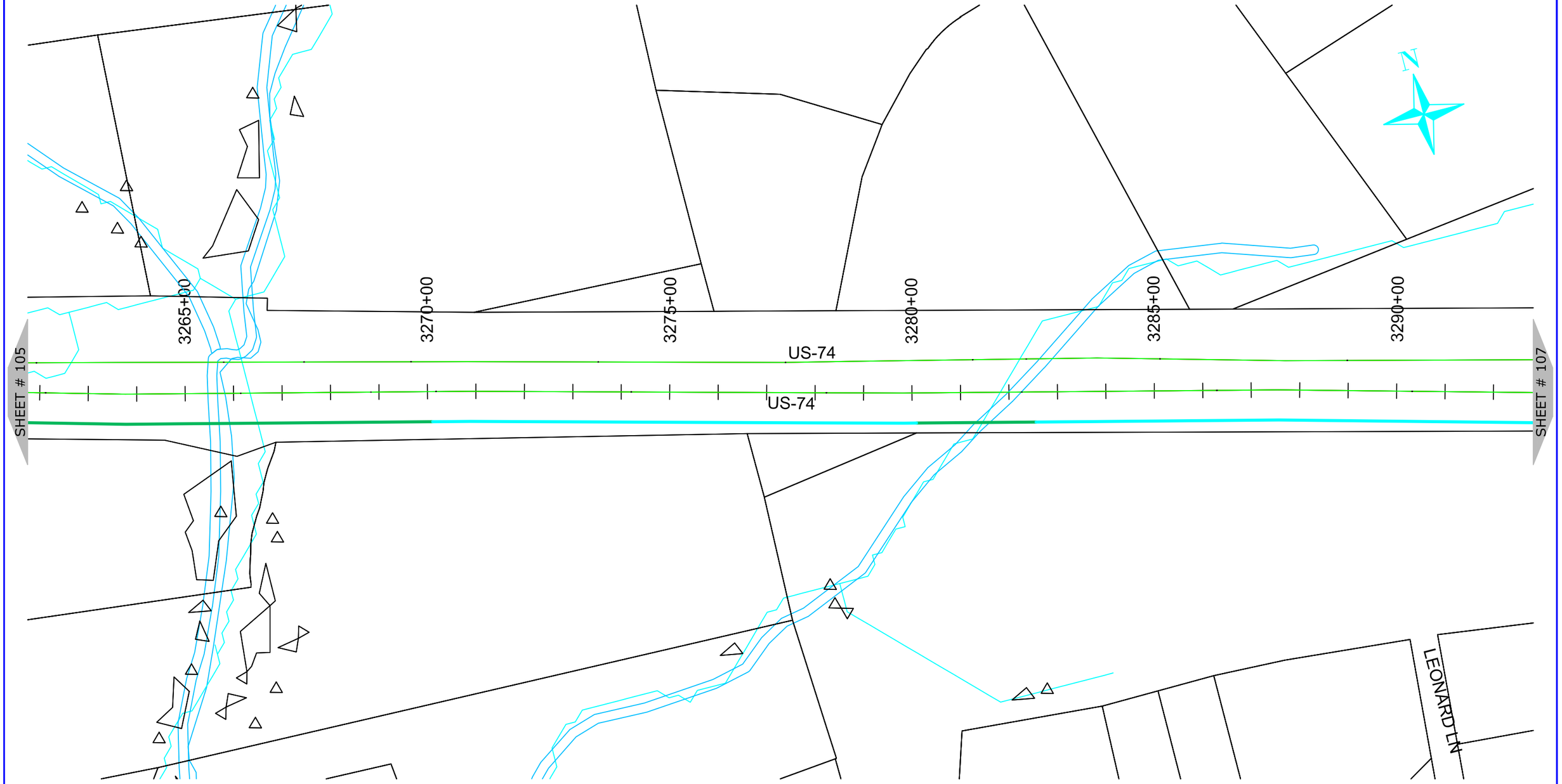
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PROJECT NAME:
US-74

SHEET NAME:
105

SHEET:
105

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PROJECT NAME:
US-74

SHEET NAME:
106

SHEET:
106

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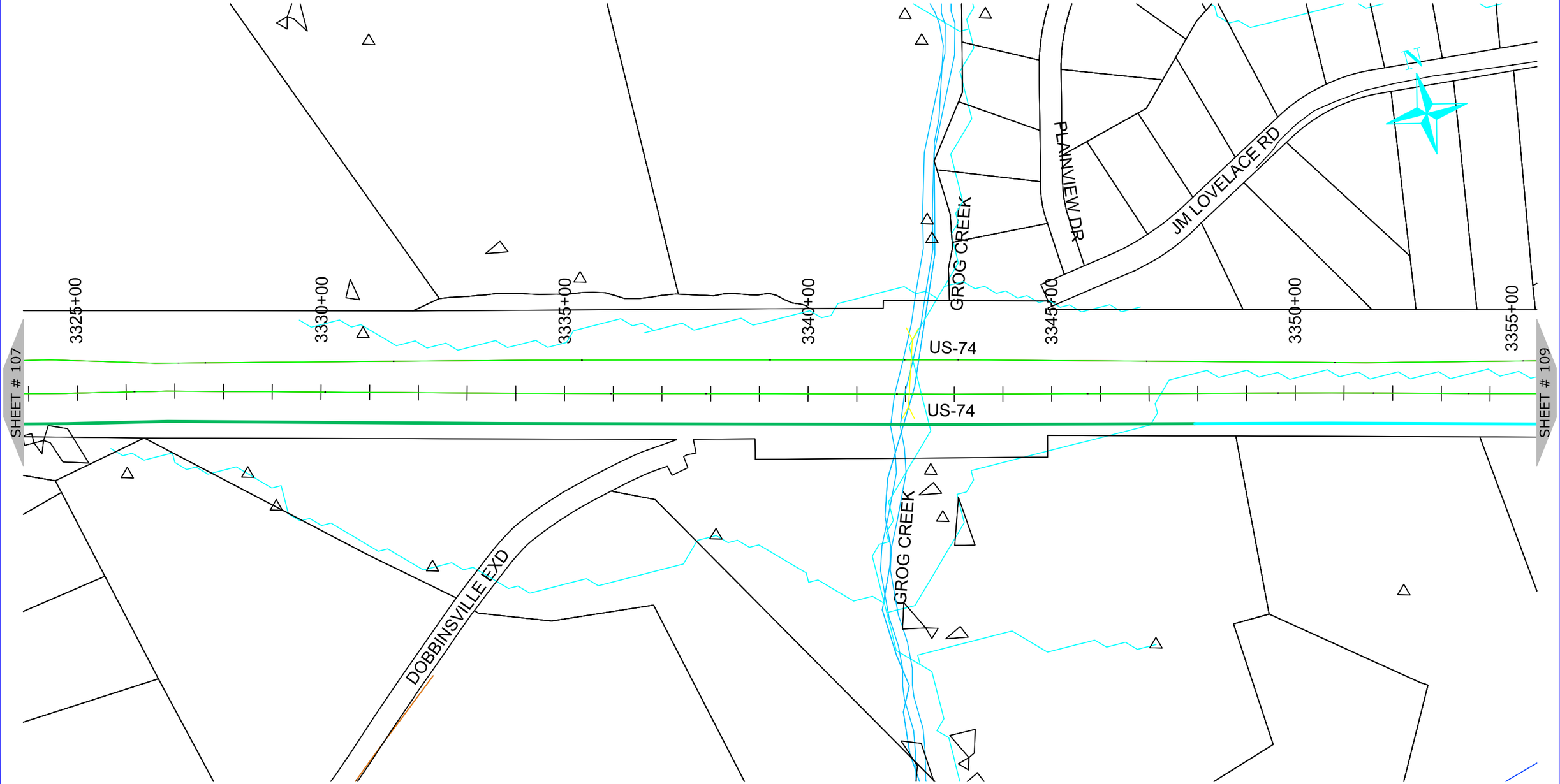
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 107

SHEET: 107

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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
108

SHEET:
108

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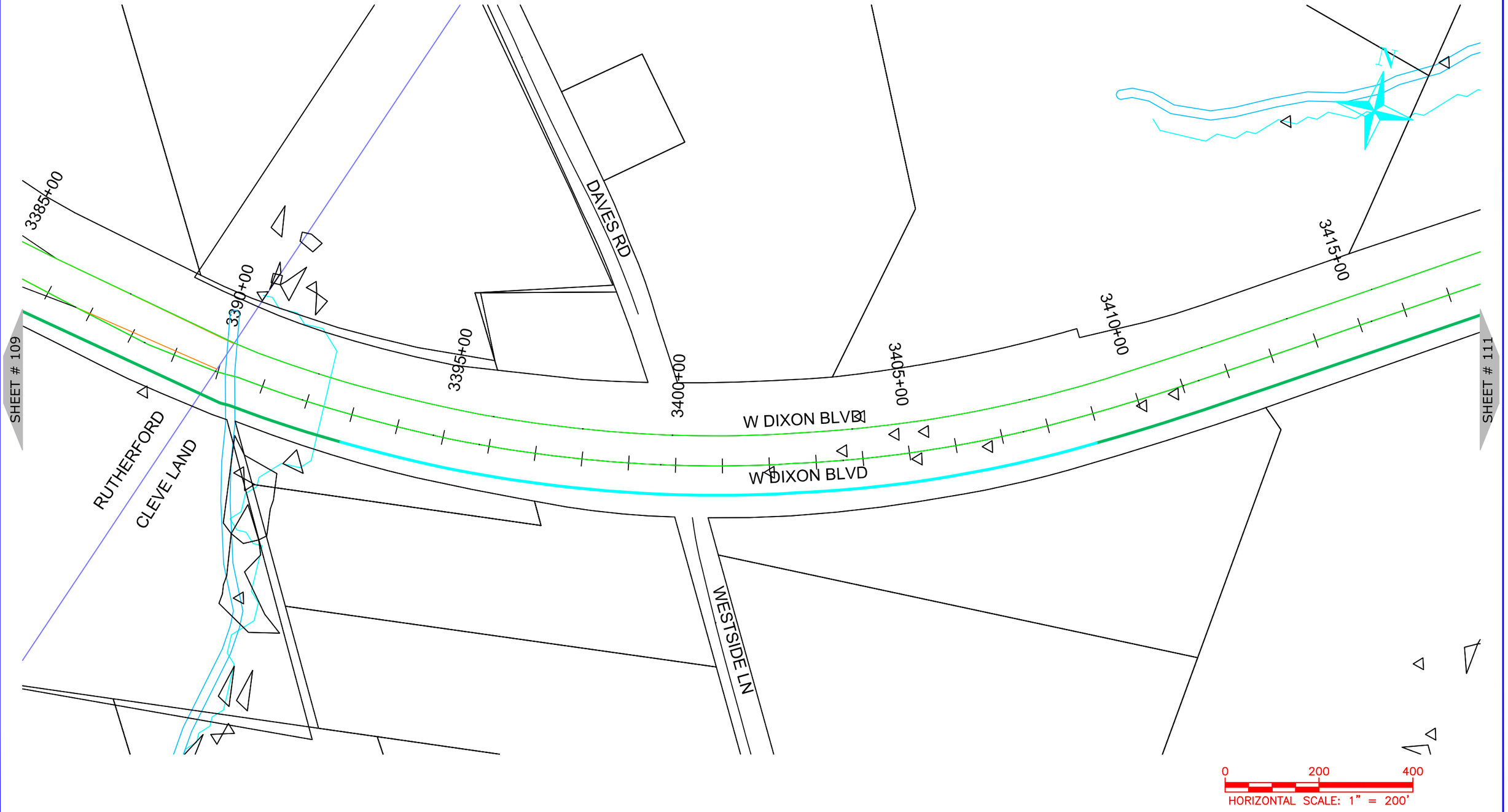
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PROJECT NAME:
US-74

SHEET NAME:
109

SHEET:
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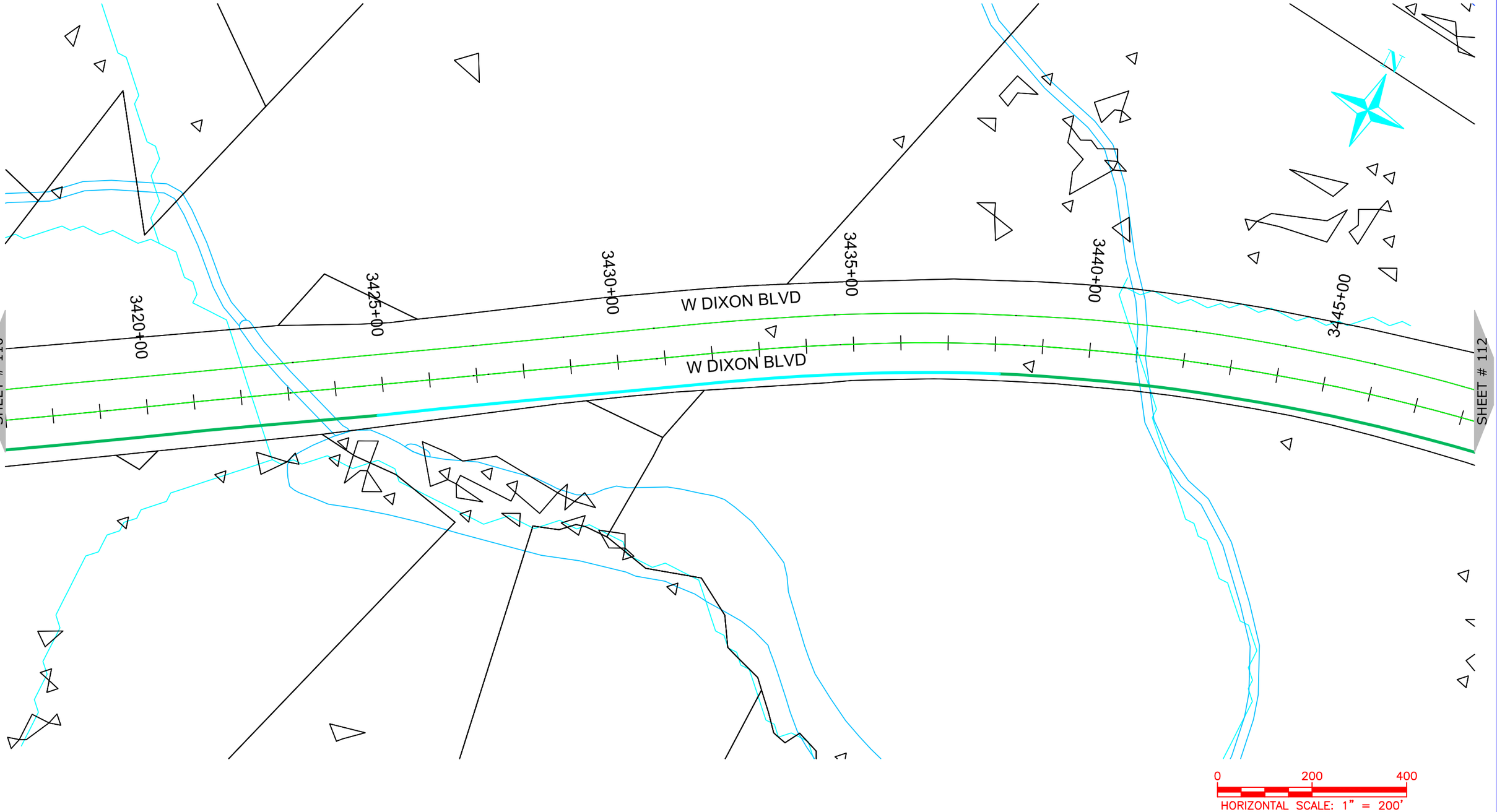
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 110

SHEET: 110

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REV	DATE	DESCRIPTION
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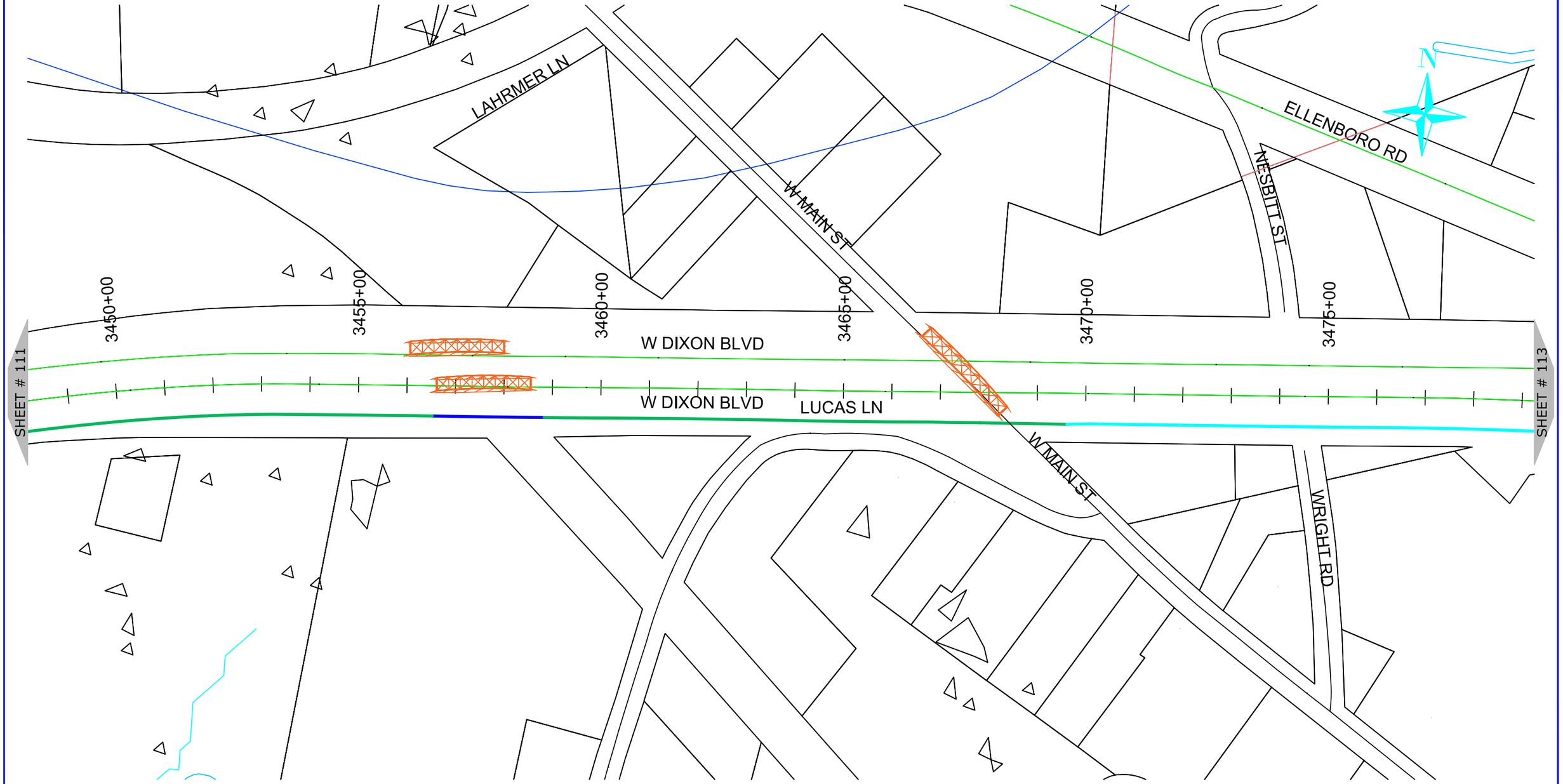
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 111

SHEET: 111

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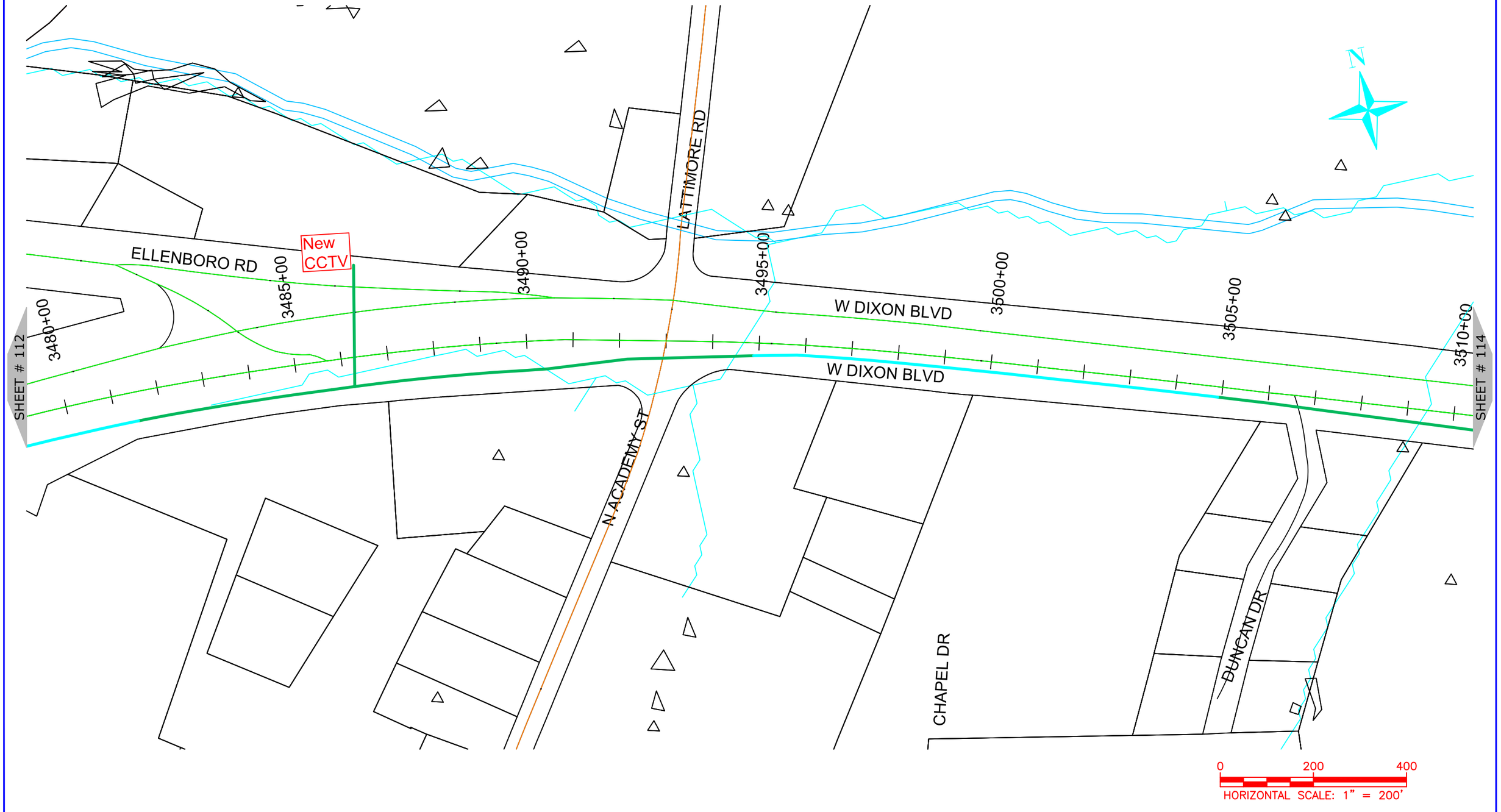
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 112

SHEET: 112

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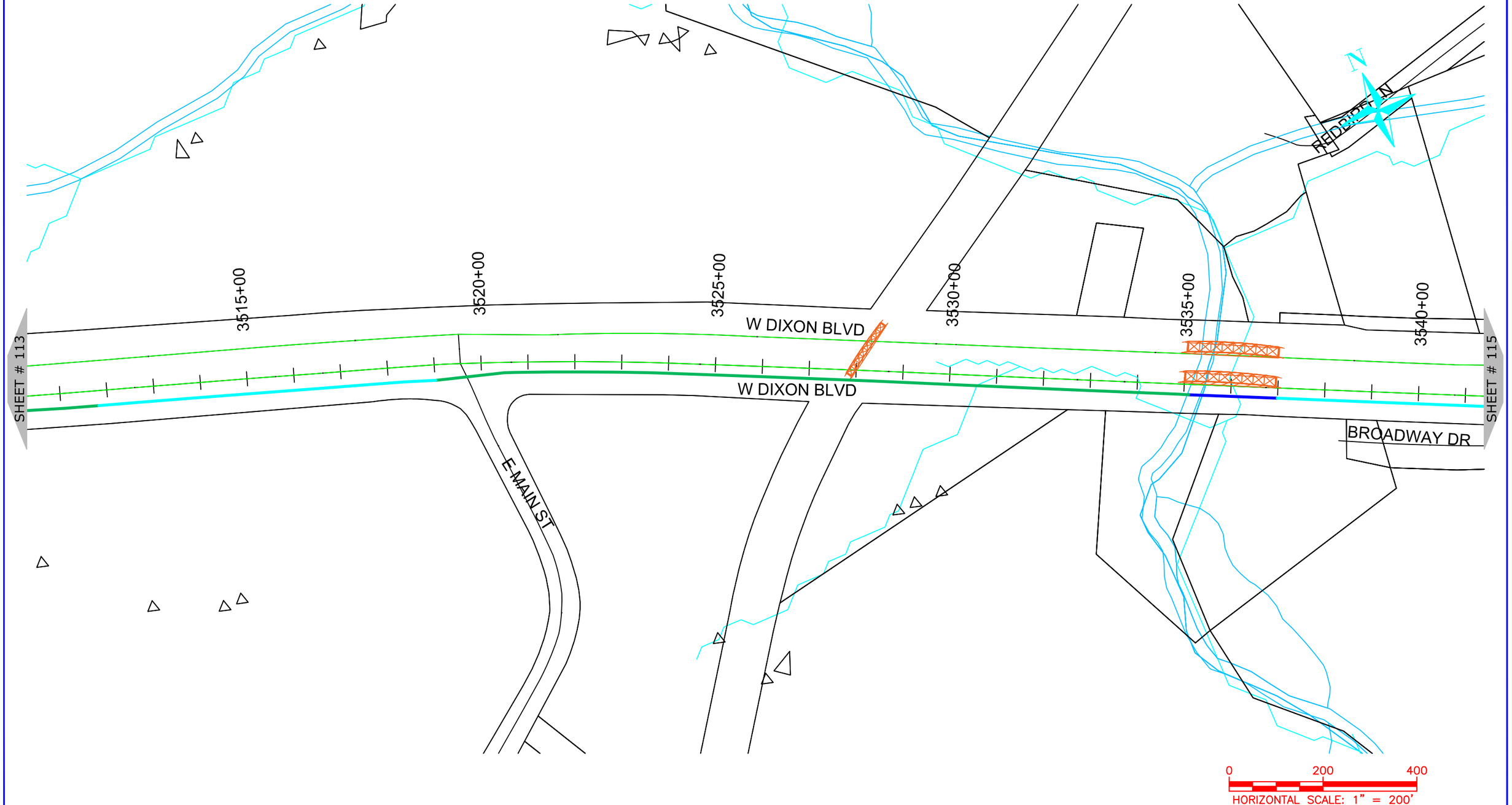
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SCALE:	1:200
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PROJECT NAME: US-74

SHEET NAME: 113

SHEET: 113

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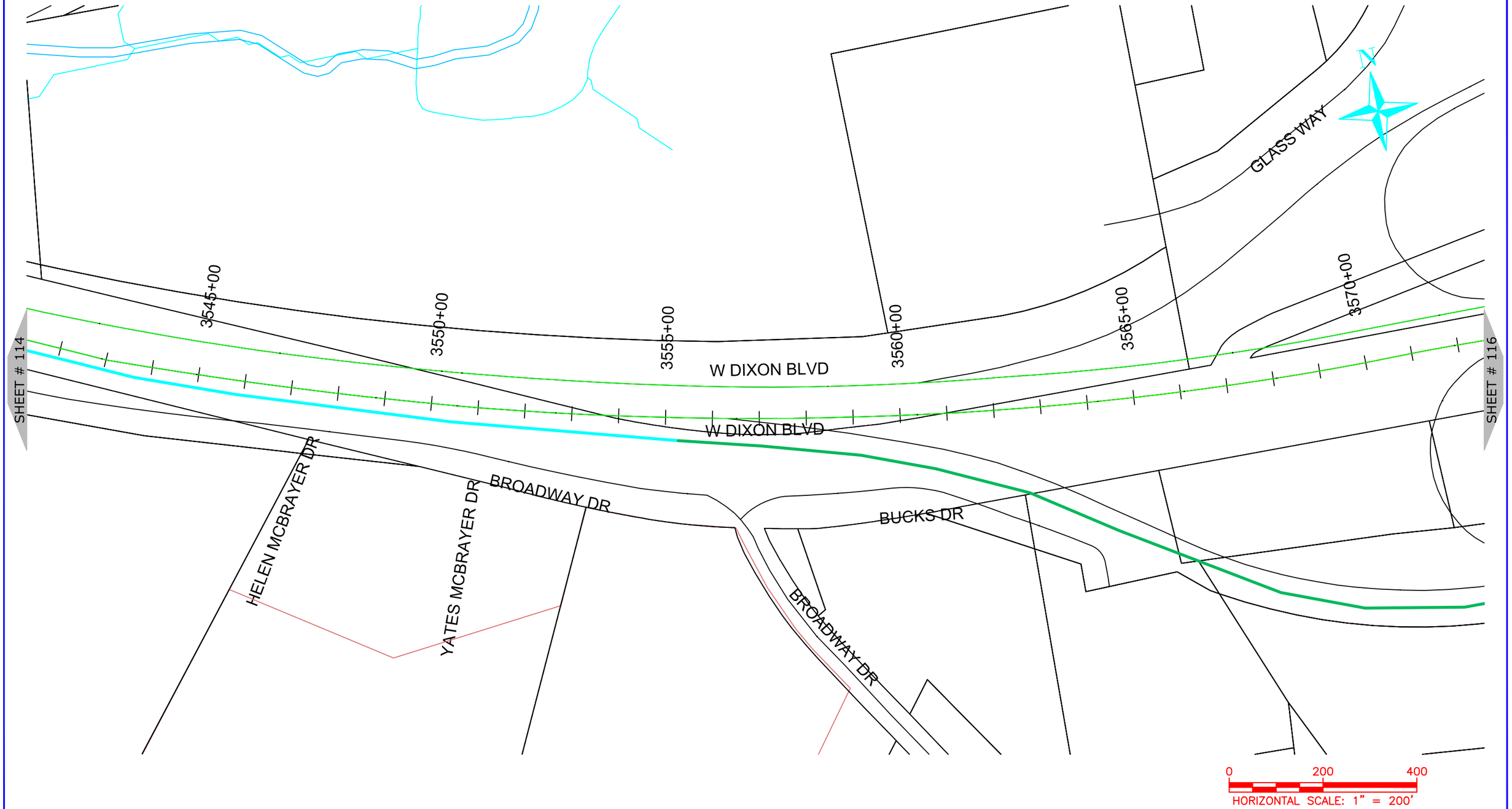
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 114

SHEET: 114

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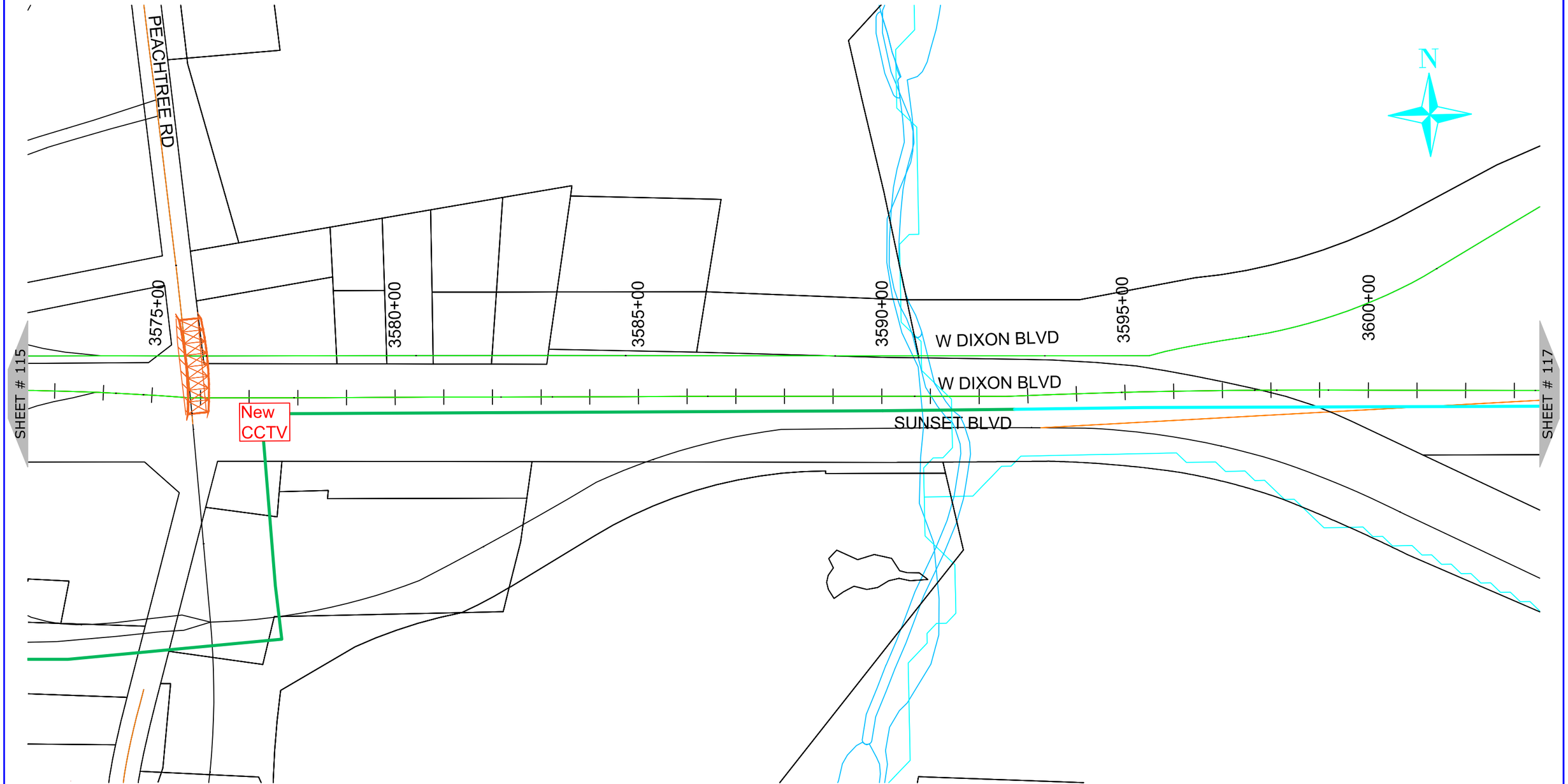
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PROJECT NAME: US-74

SHEET NAME: 115

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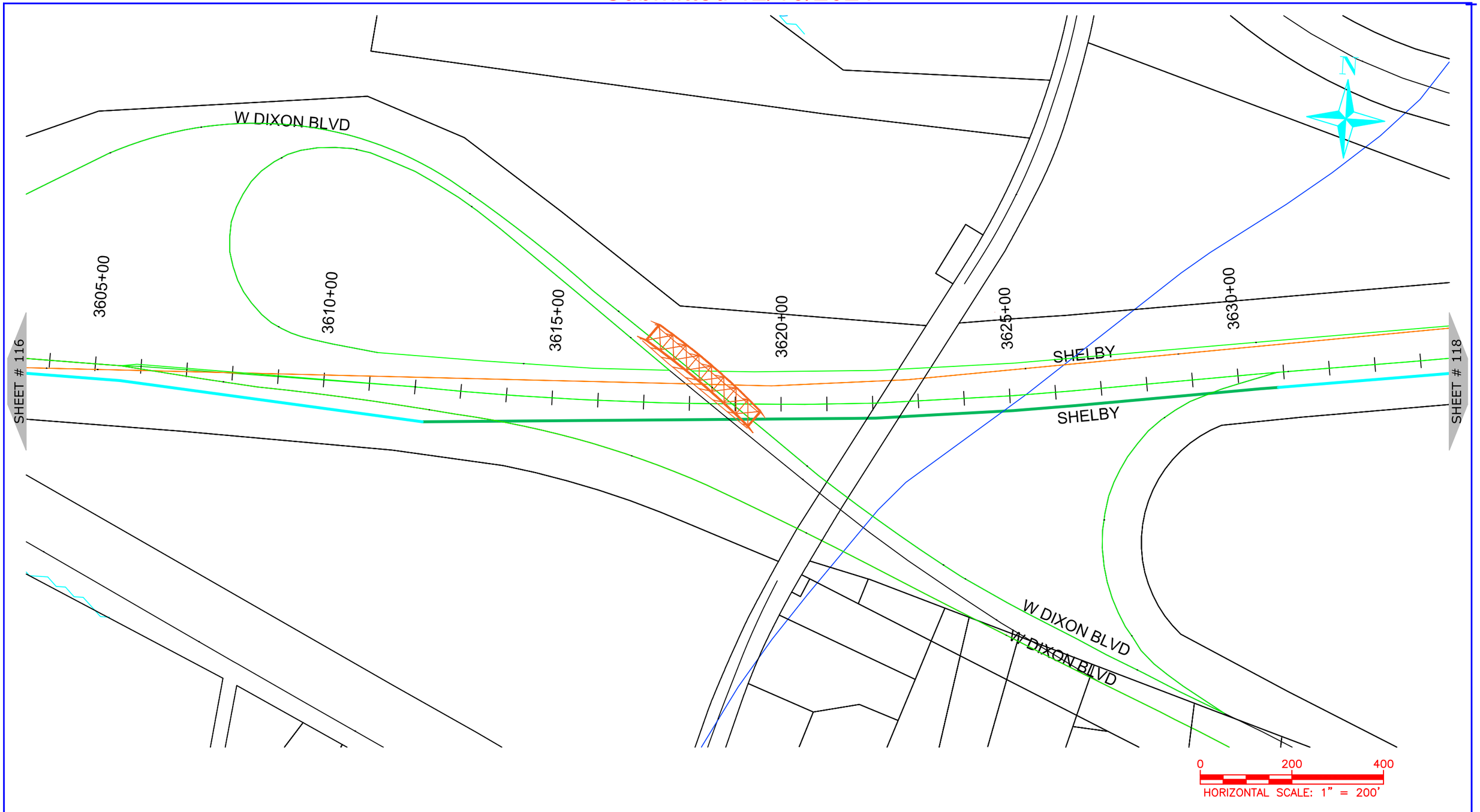
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PROJECT NAME: US-74

SHEET NAME: 116

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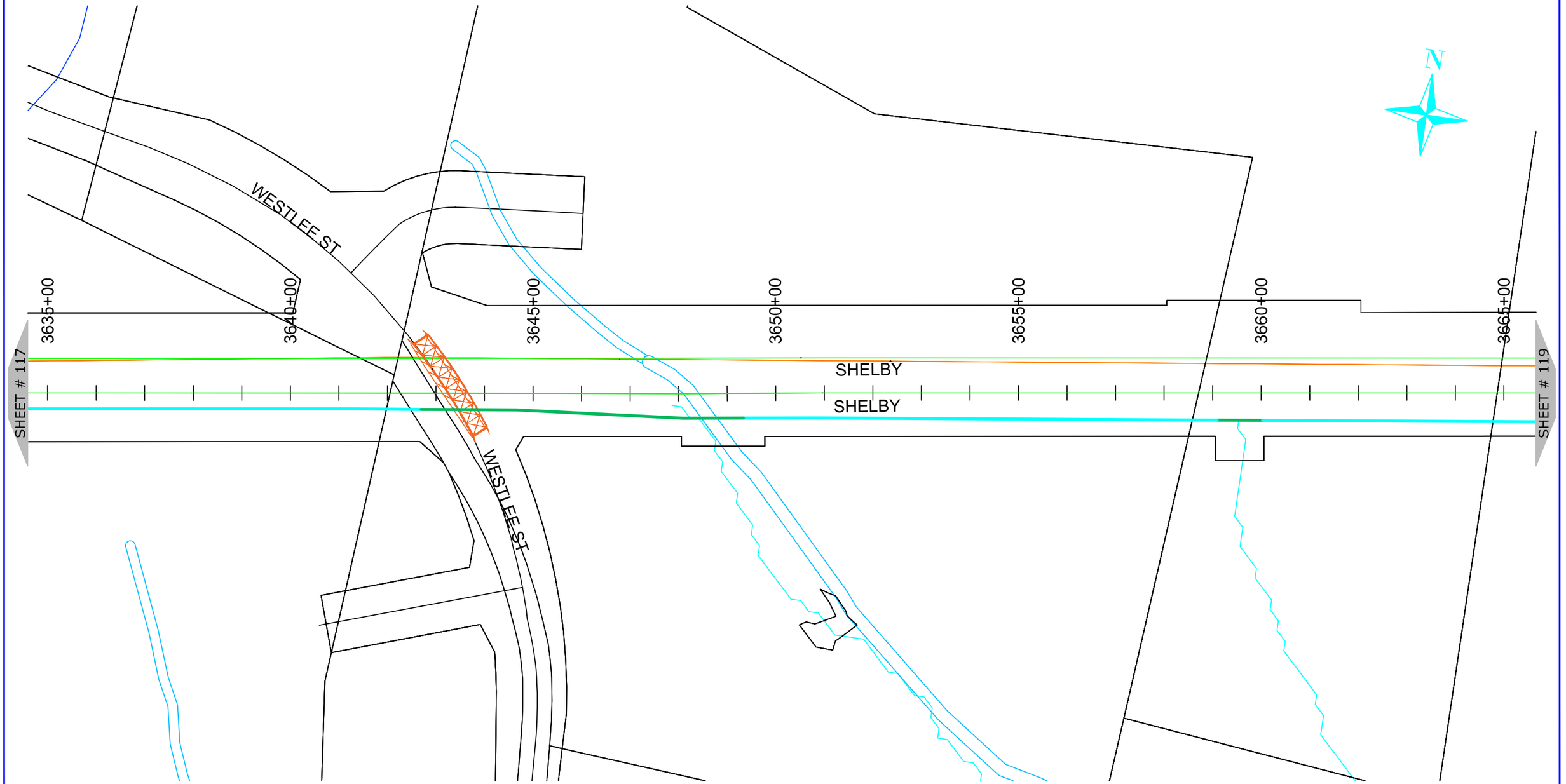
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PROJECT NAME: US-74

SHEET NAME: 117

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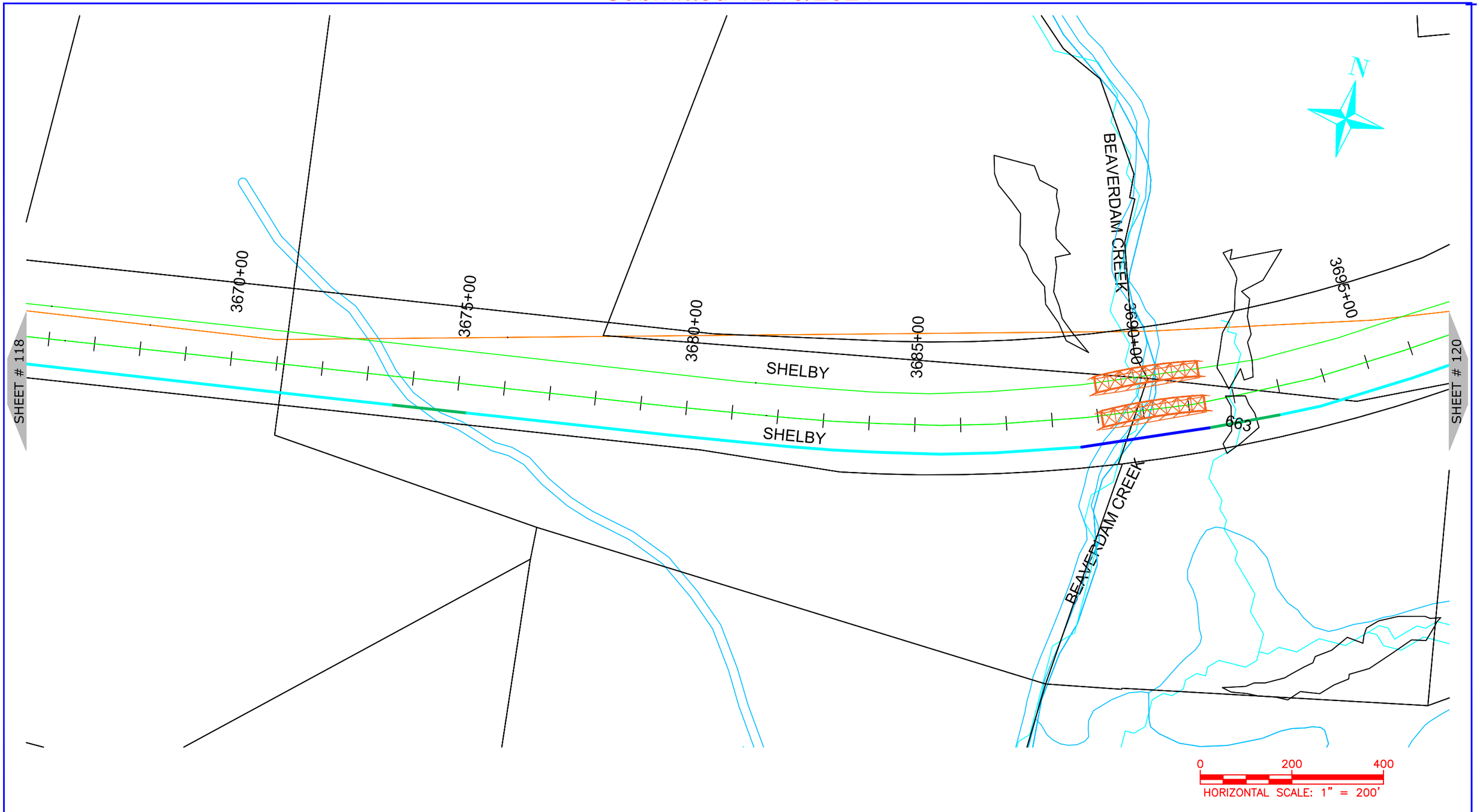
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PROJECT NAME: US-74

SHEET NAME: 118

SHEET: 118

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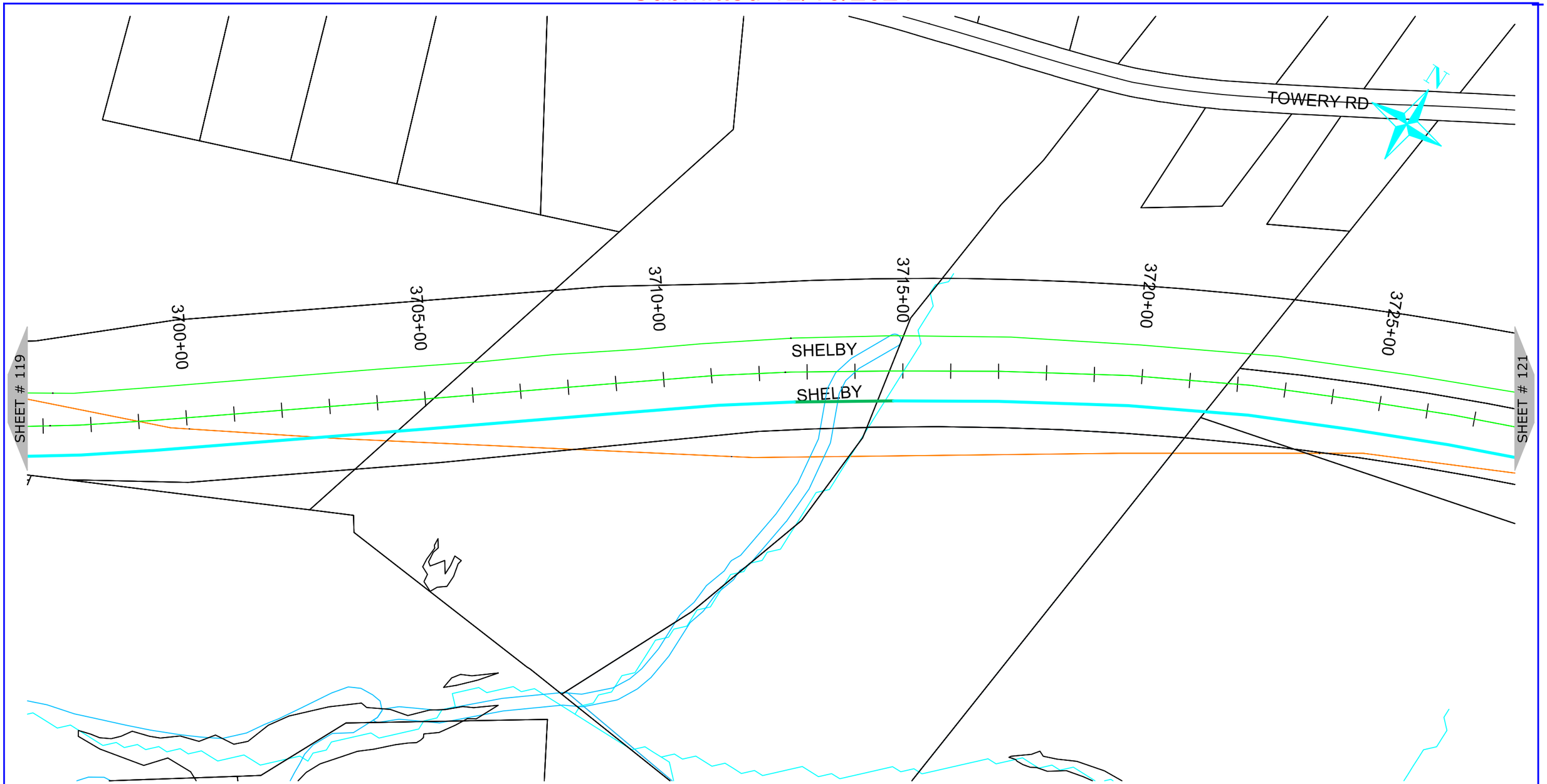
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PROJECT NAME: US-74

SHEET NAME: 119

SHEET: 119

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PROJECT NAME: US-74

SHEET NAME: 120

SHEET: 120

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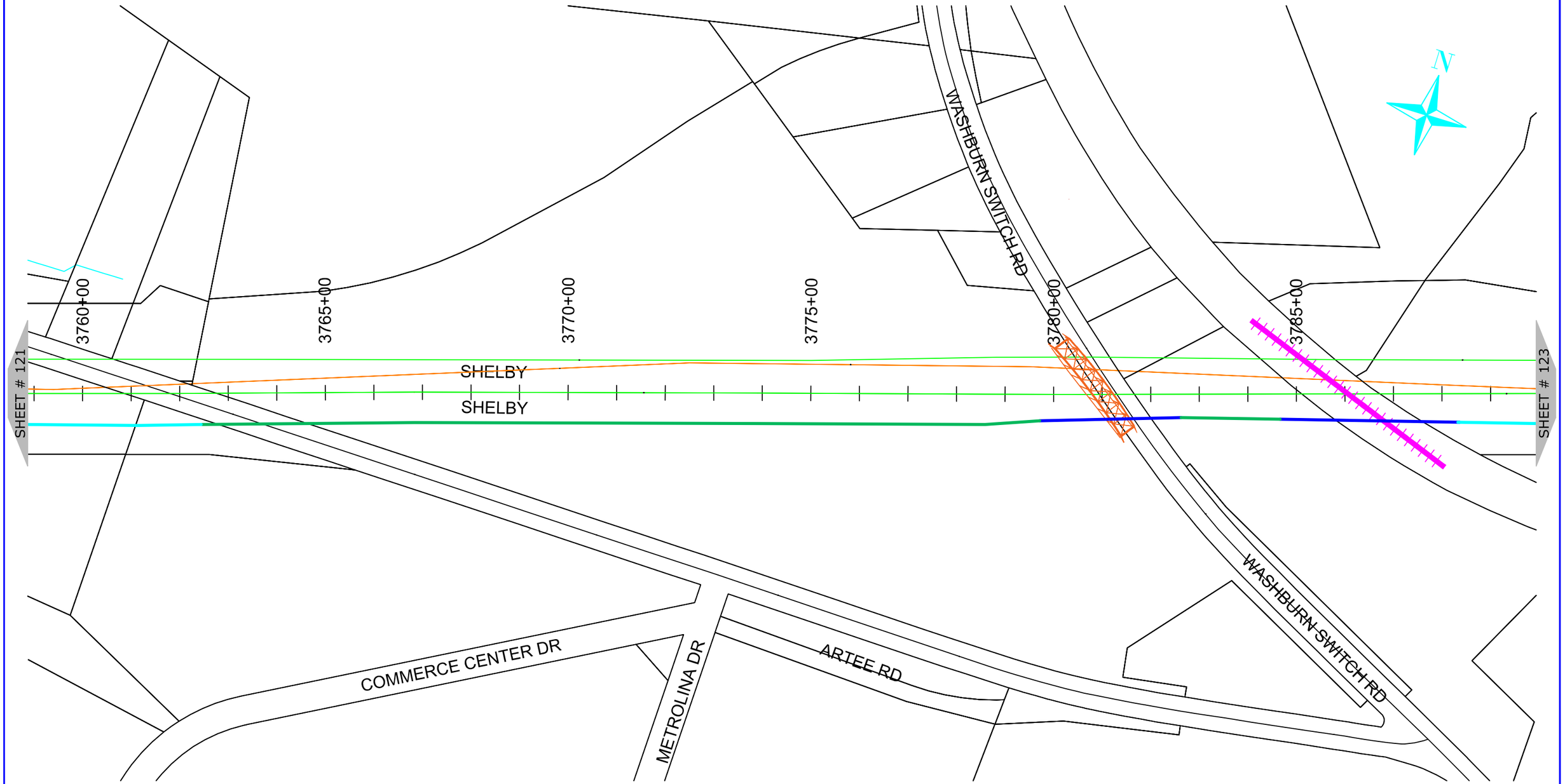
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PROJECT NAME: US-74

SHEET NAME: 121

SHEET: 121

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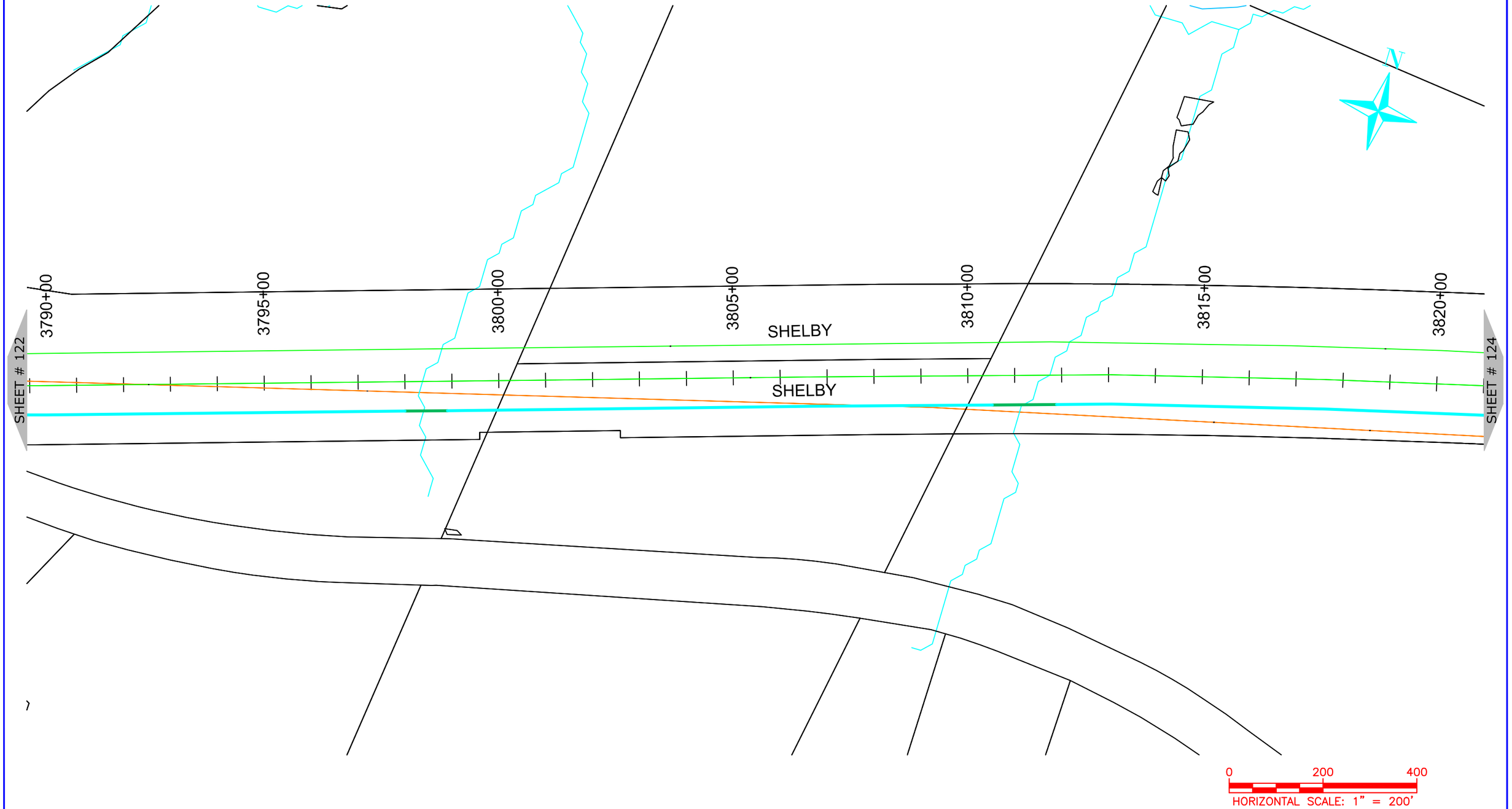
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 122

SHEET: 122

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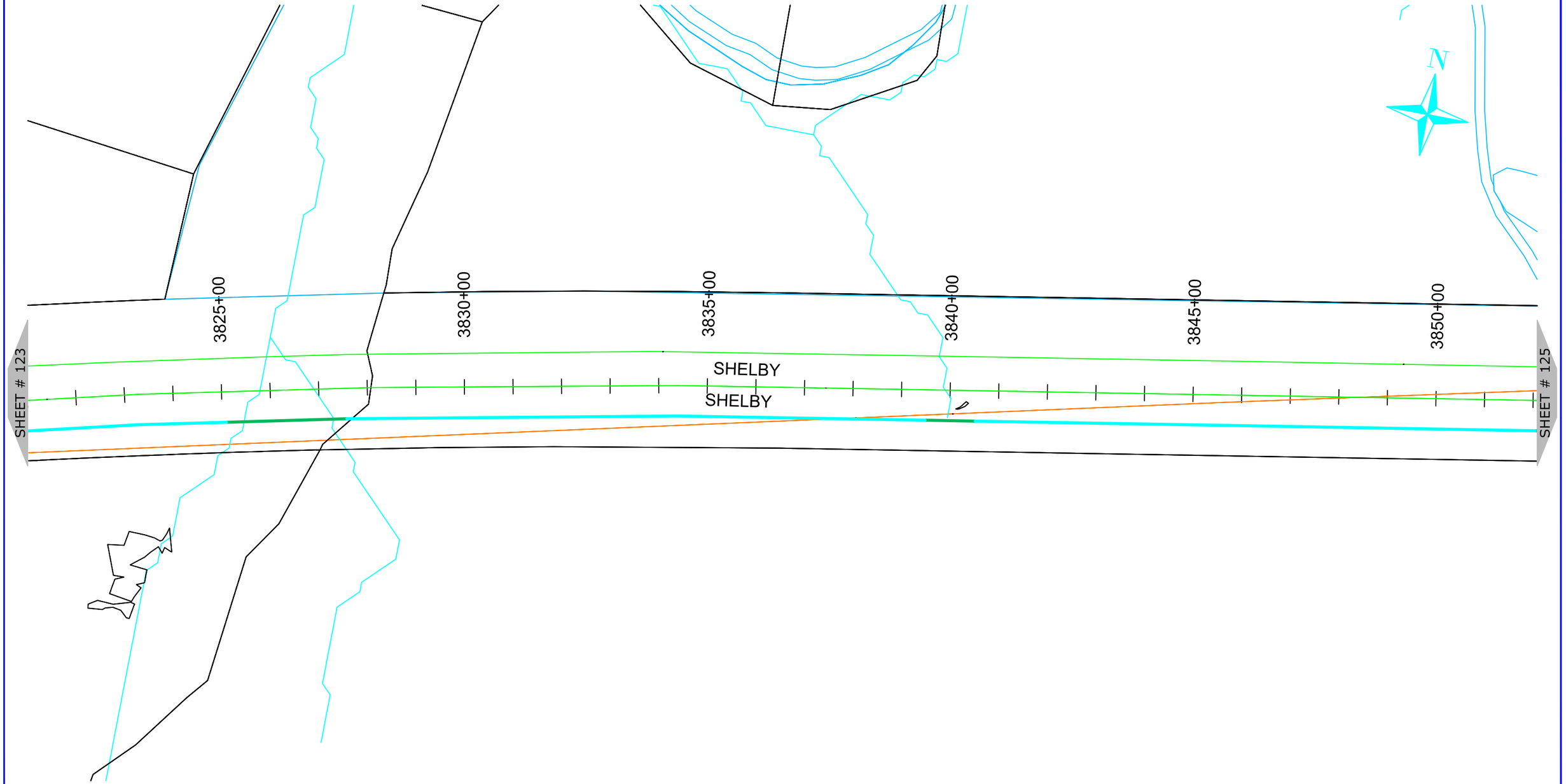
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PROJECT NAME: US-74

SHEET NAME: 123

SHEET: 123

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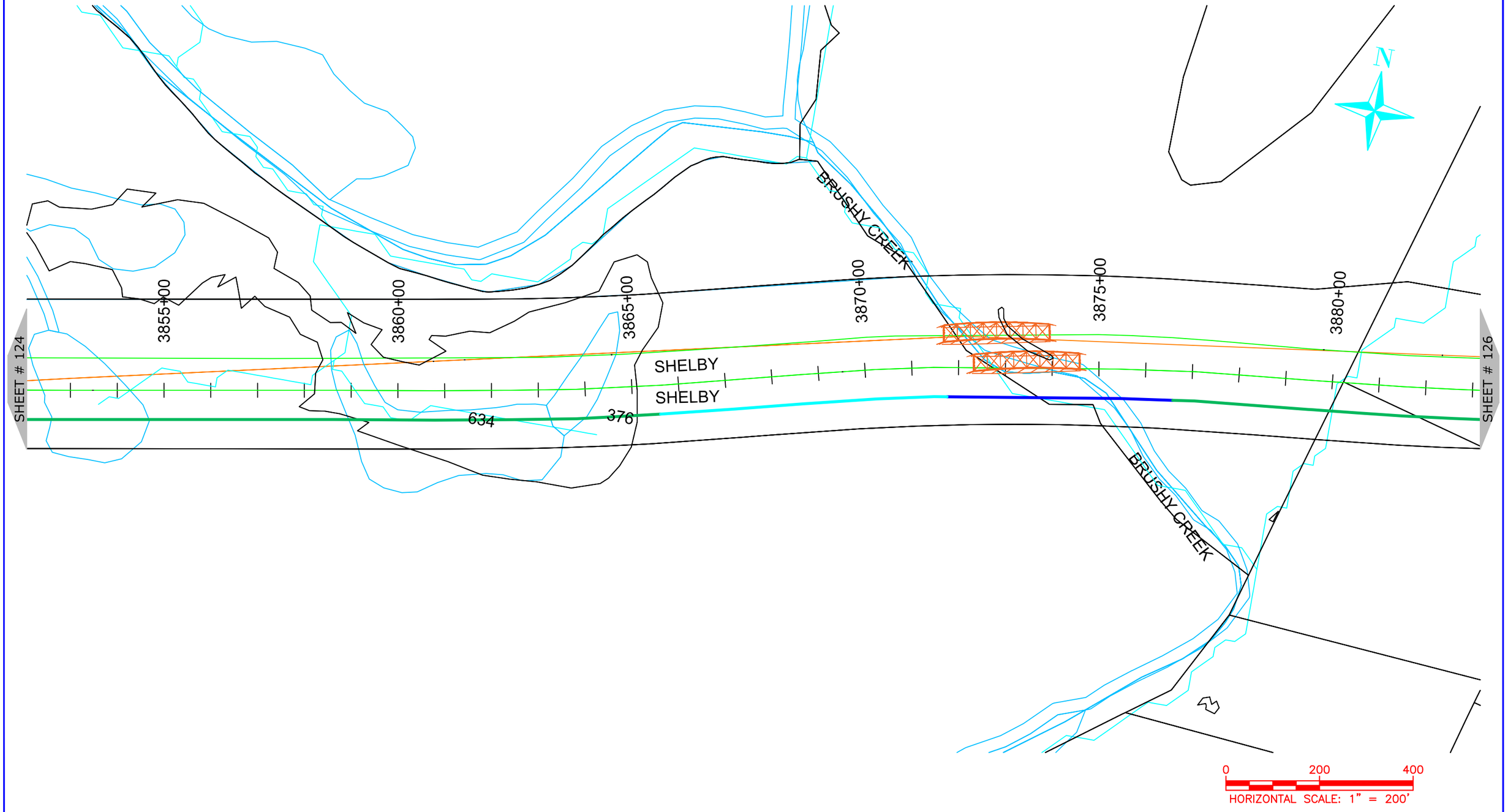
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 124

SHEET: 124

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PROJECT NAME: US-74

SHEET NAME: 125

SHEET: 125

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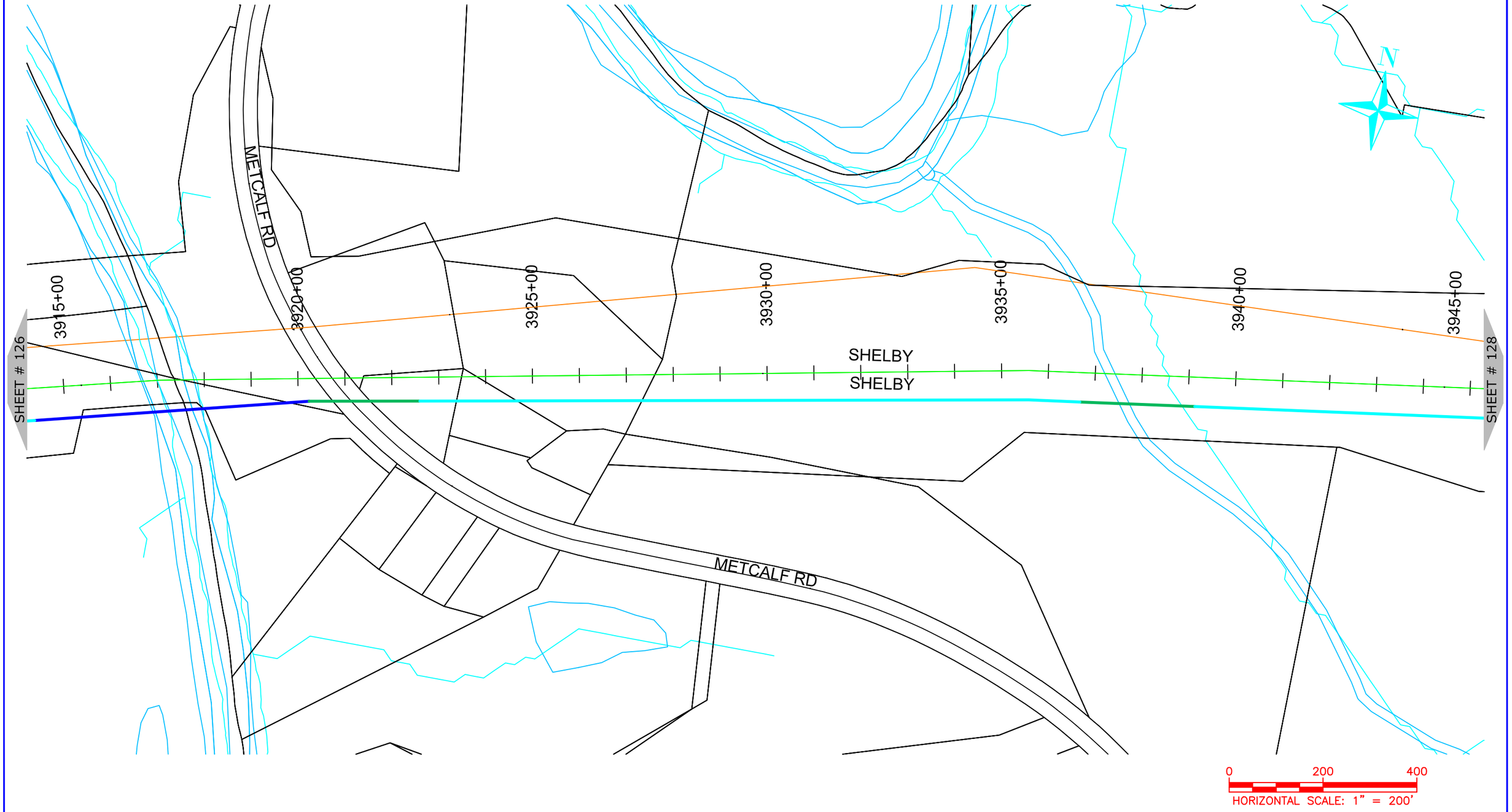
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PROJECT NAME: US-74

SHEET NAME: 126

SHEET: 126

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PROJECT NAME: US-74

SHEET NAME: 127

SHEET: 127

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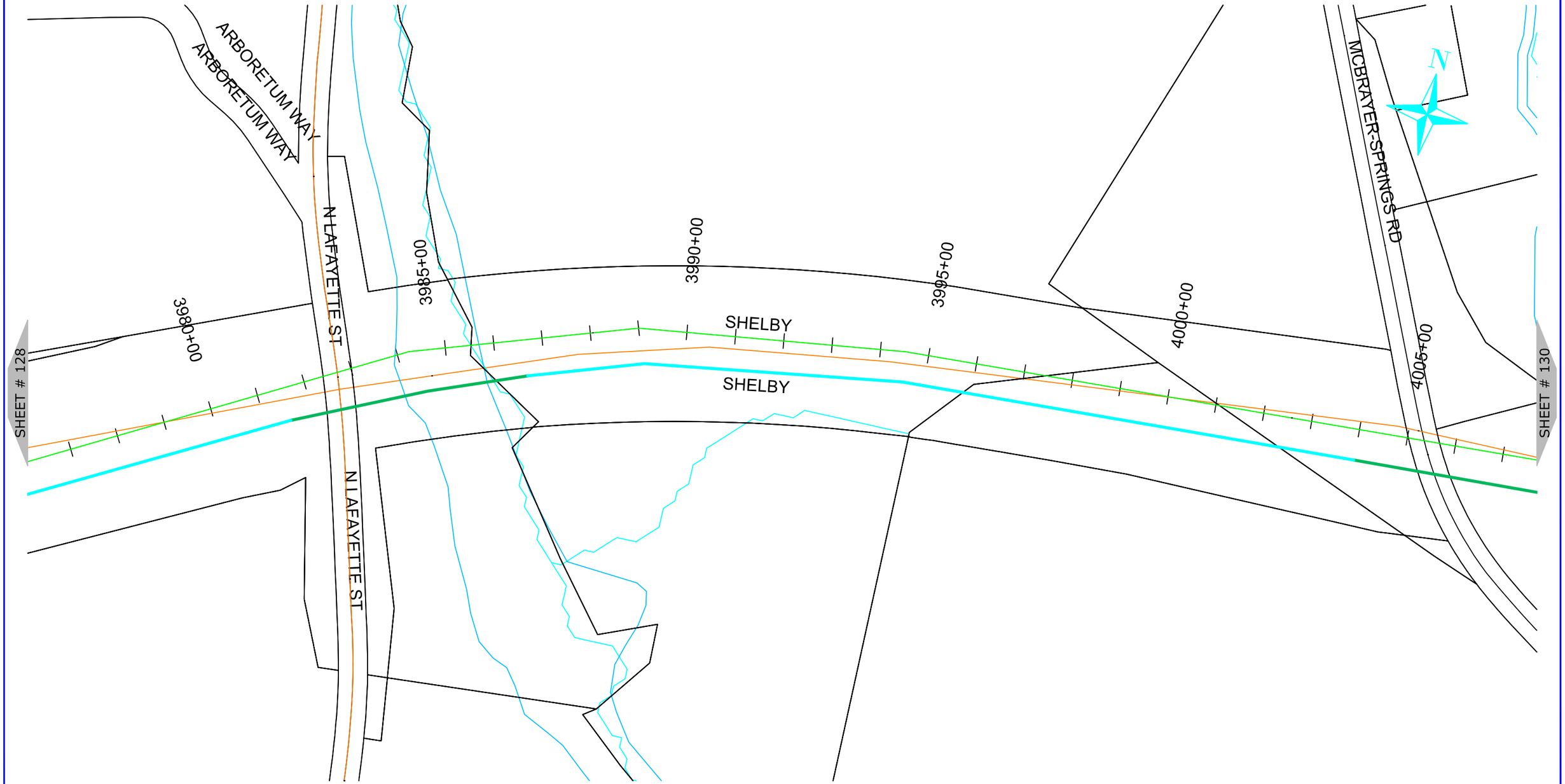
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PROJECT NAME: US-74

SHEET NAME: 128

SHEET: 128

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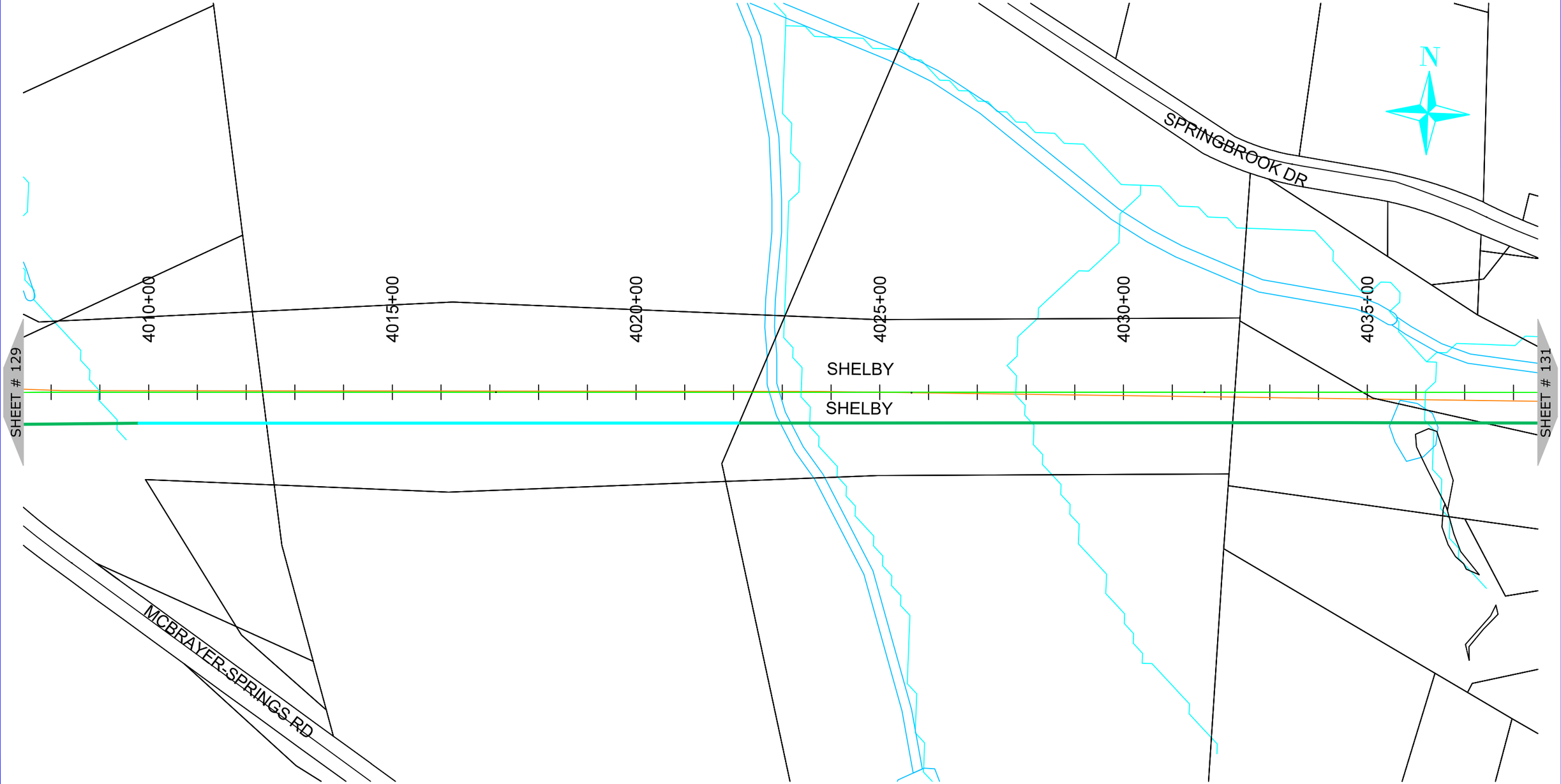
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PROJECT NAME:
US-74

SHEET NAME:
129

SHEET:
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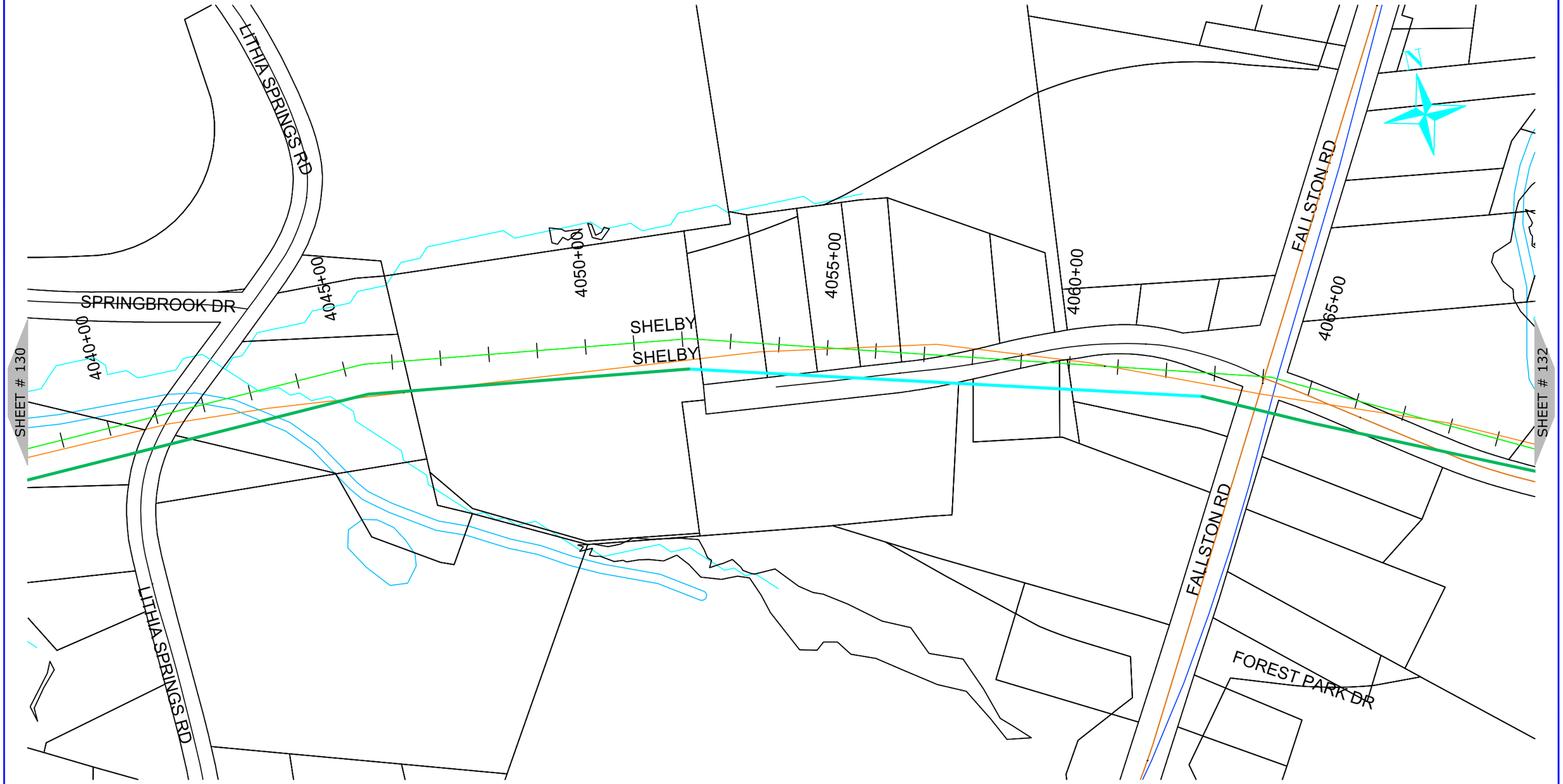
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PROJECT NAME:
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SHEET NAME:
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SHEET:
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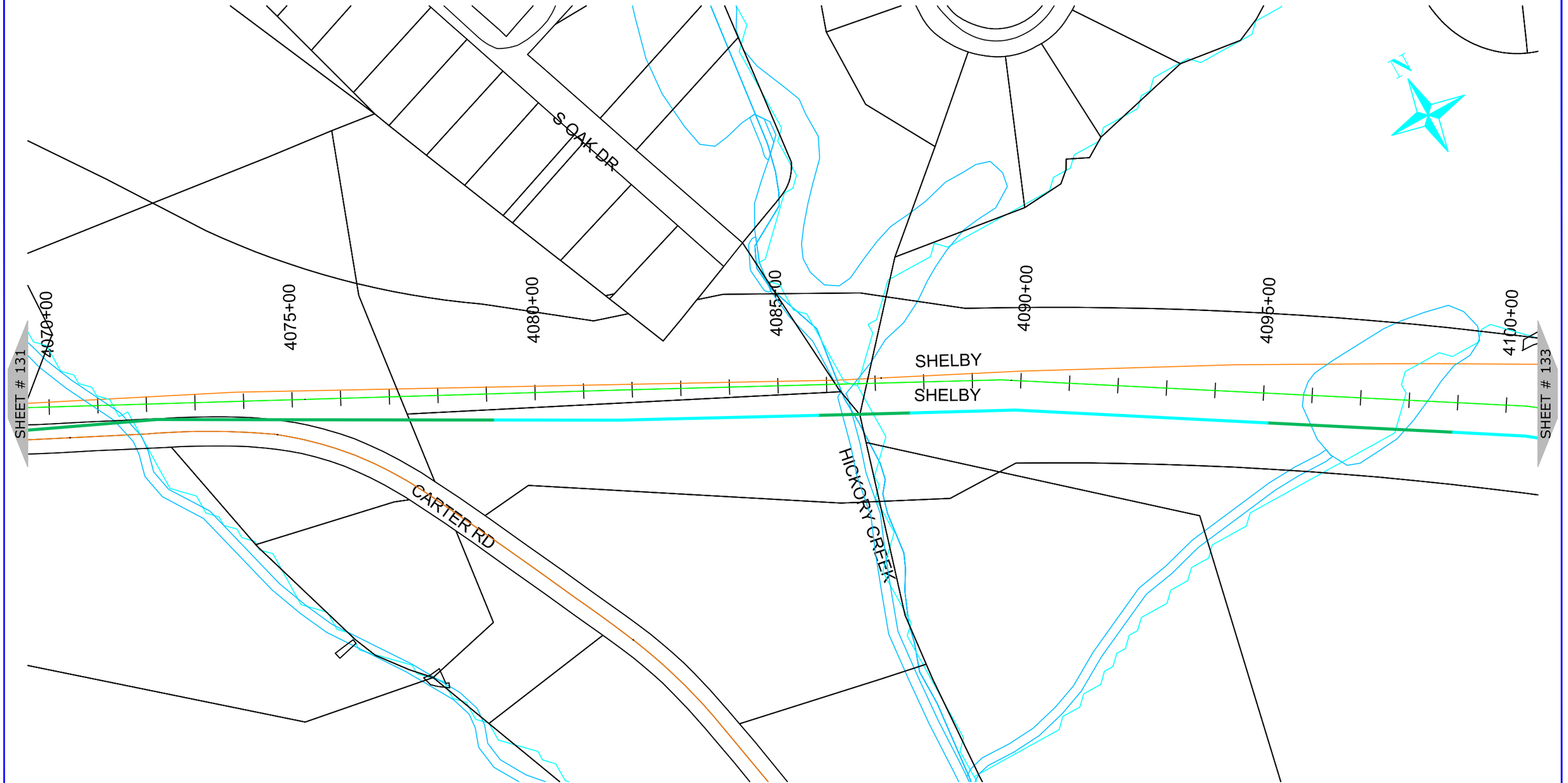
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 131

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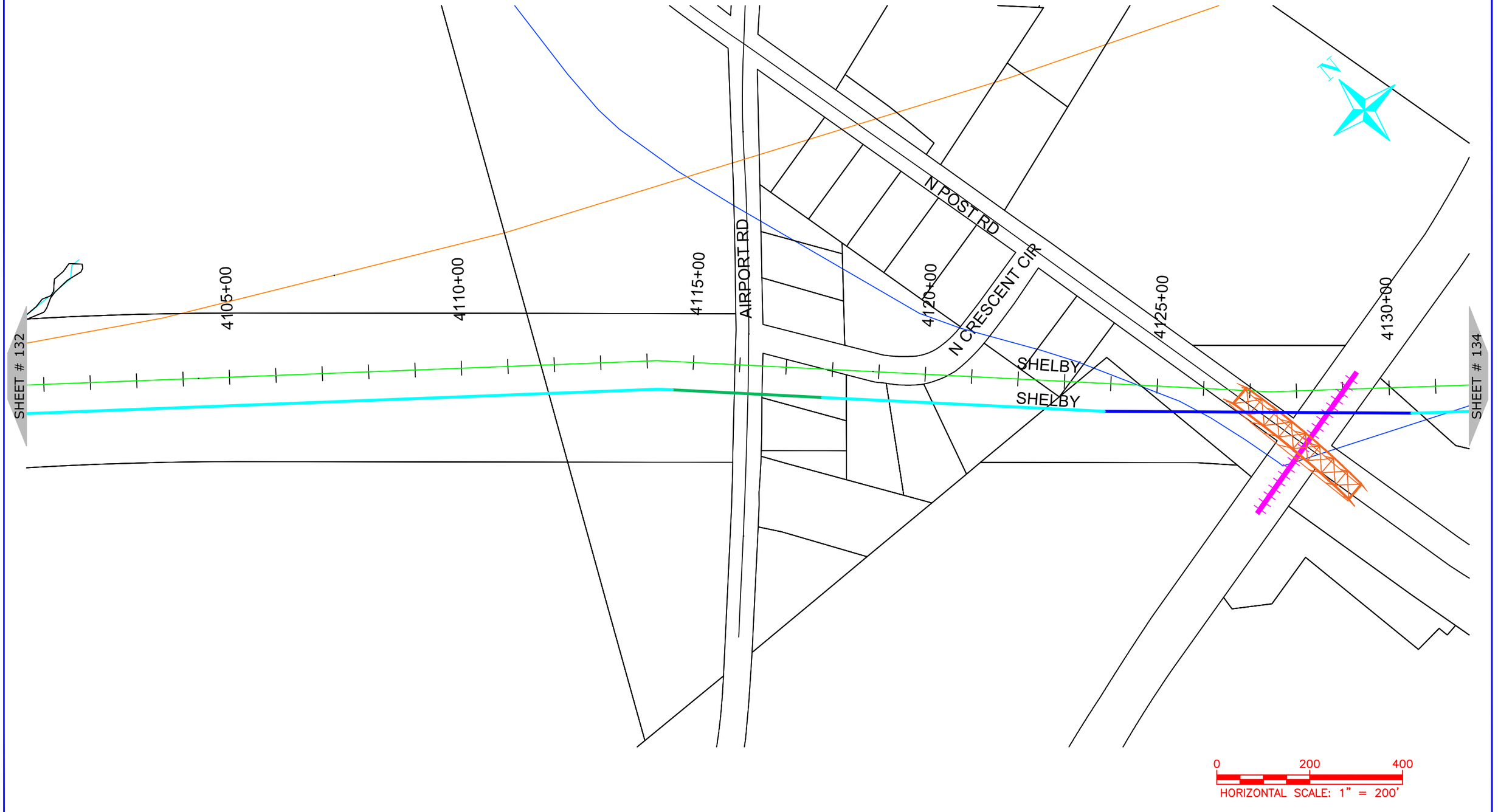
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PROJECT NAME:
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SHEET NAME:
132

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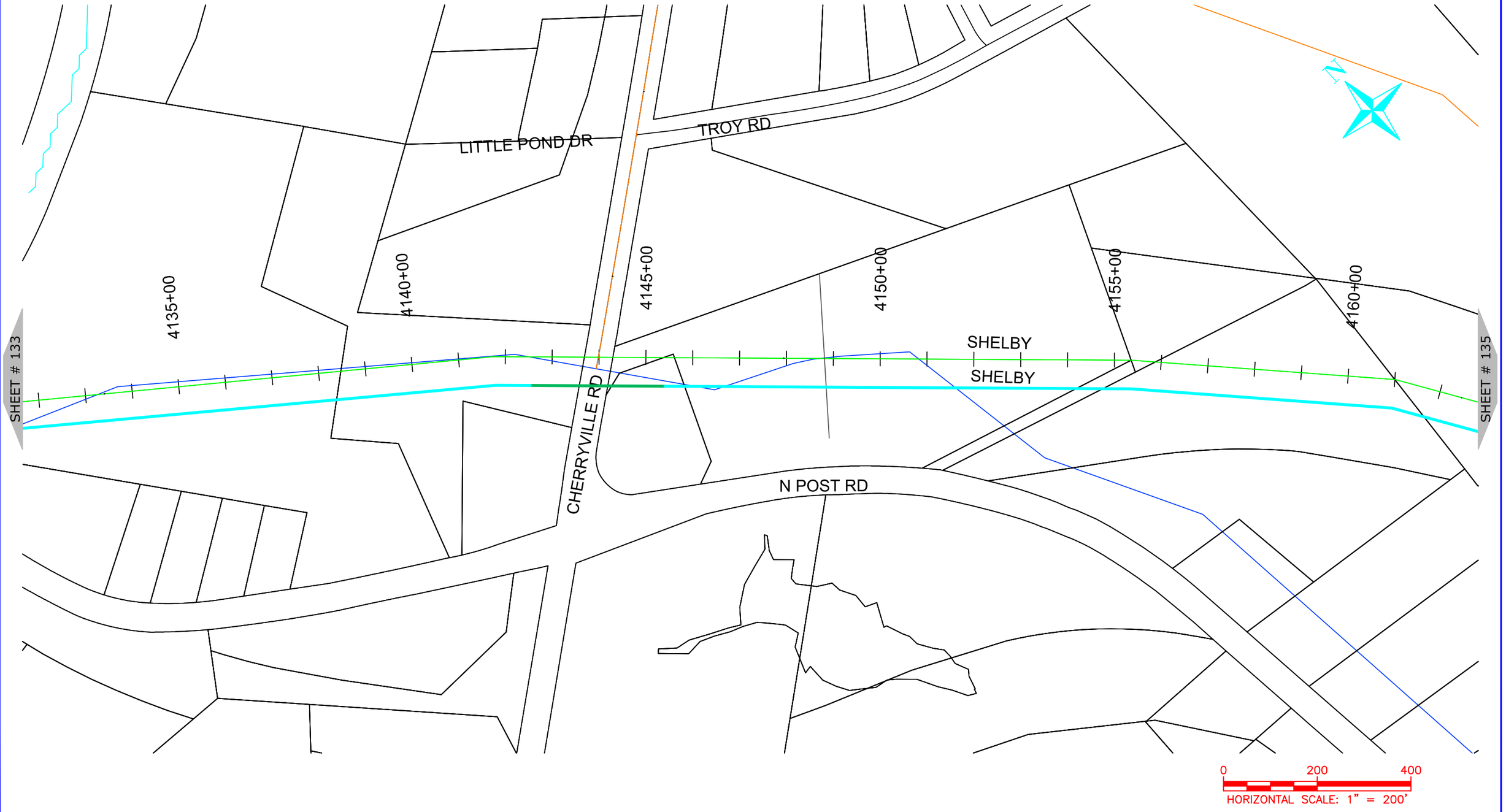
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PROJECT NAME: US-74

SHEET NAME: 133

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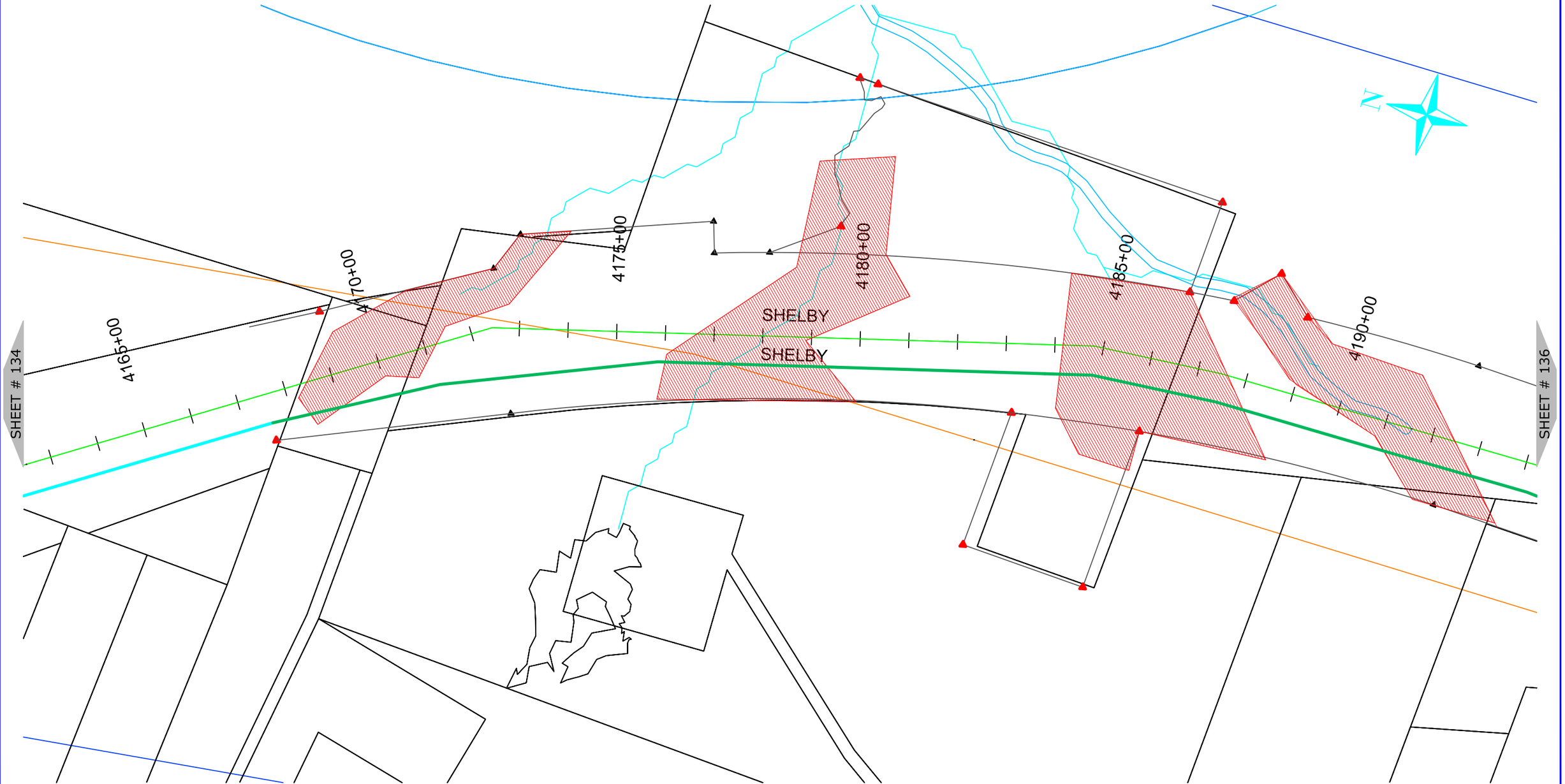
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
134

SHEET:
134

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3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
		CLEVELAND

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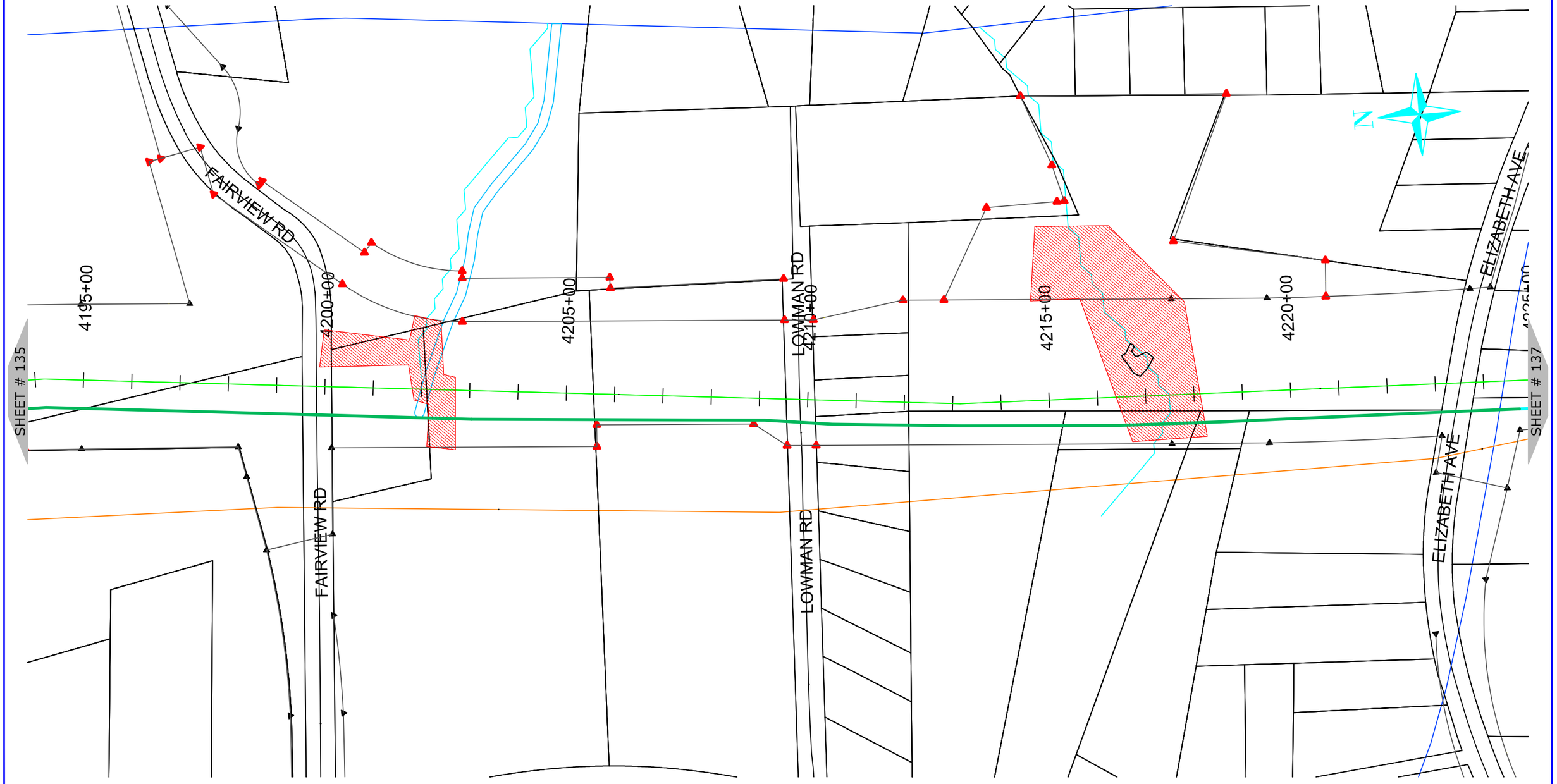
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 135

SHEET: 135

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JOB NO:DOTNCRAH20210512-001	
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PROJECT NAME: US-74

SHEET NAME: 136

SHEET: 136

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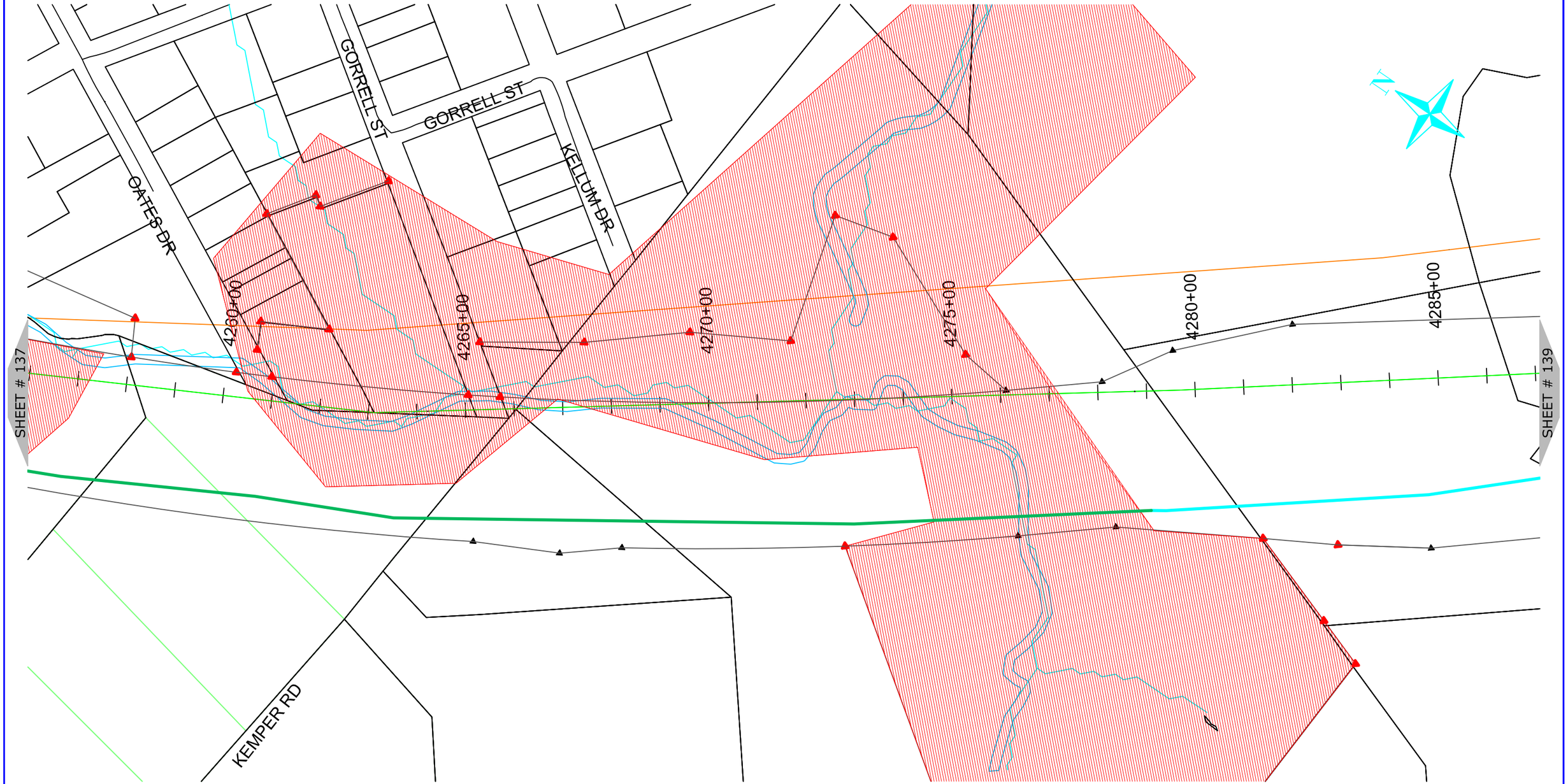
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 137

SHEET: 137

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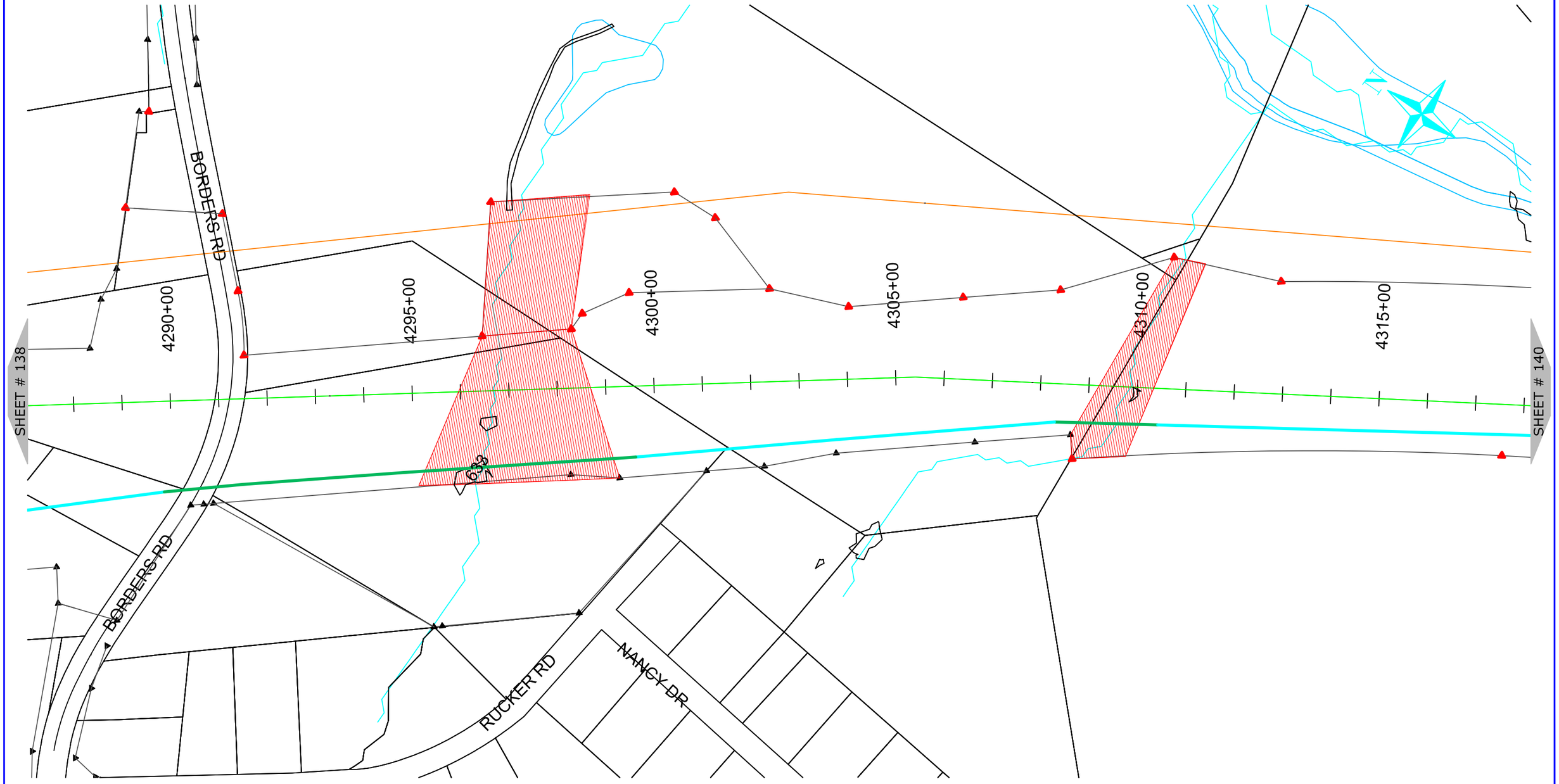
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 138

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 139

SHEET: 139

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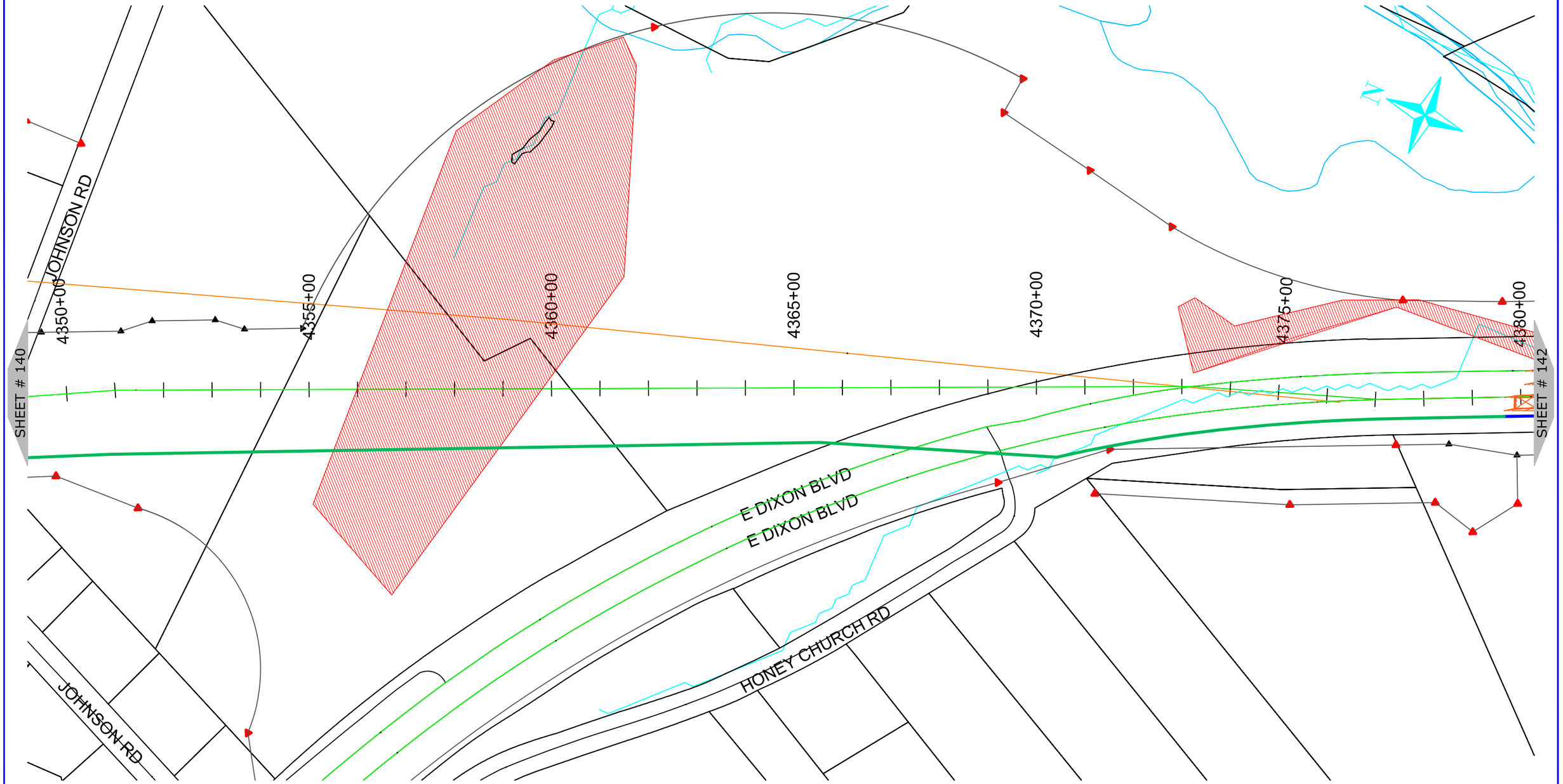
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PROJECT NAME: US-74

SHEET NAME: 140

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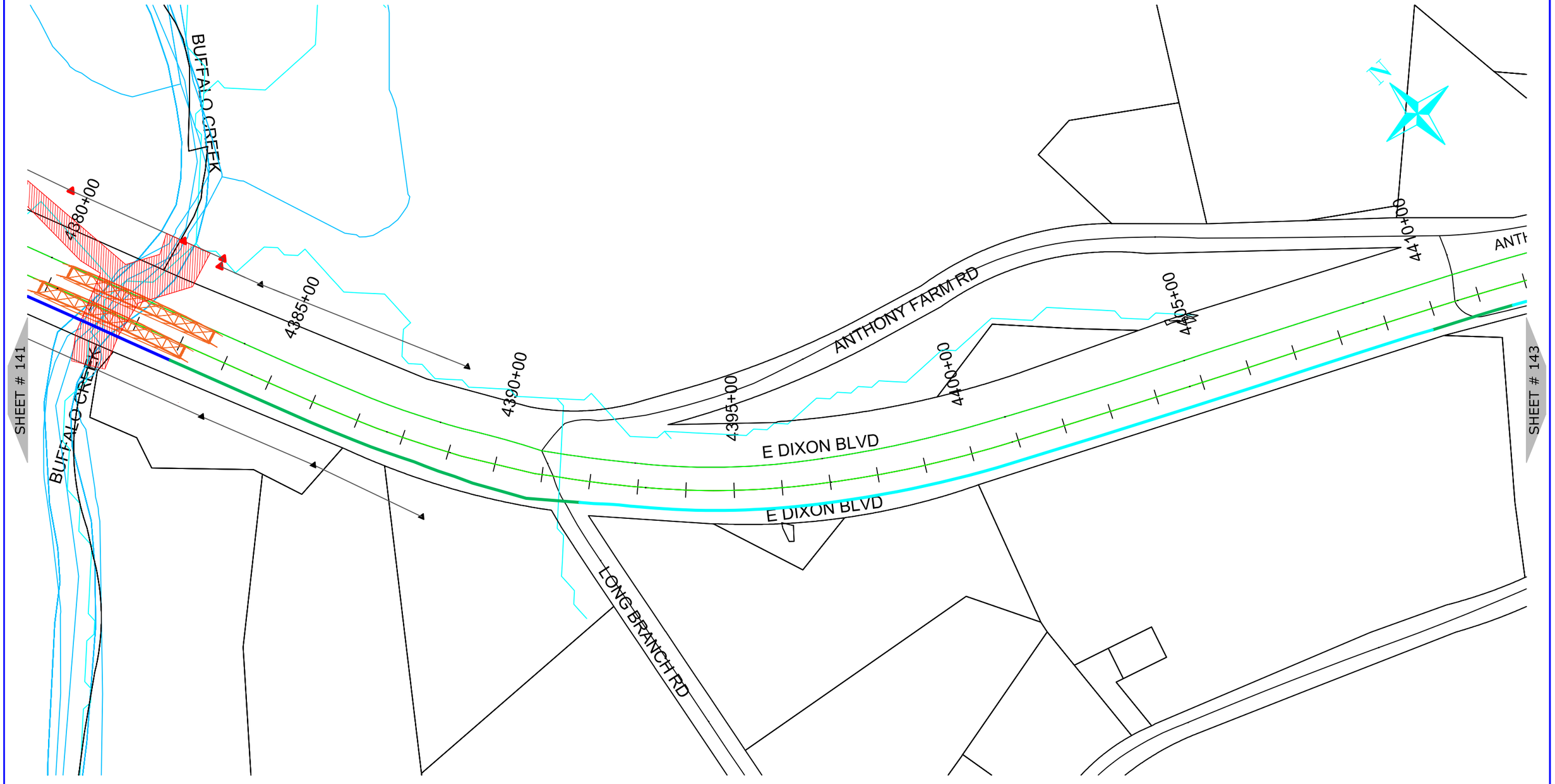
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 141

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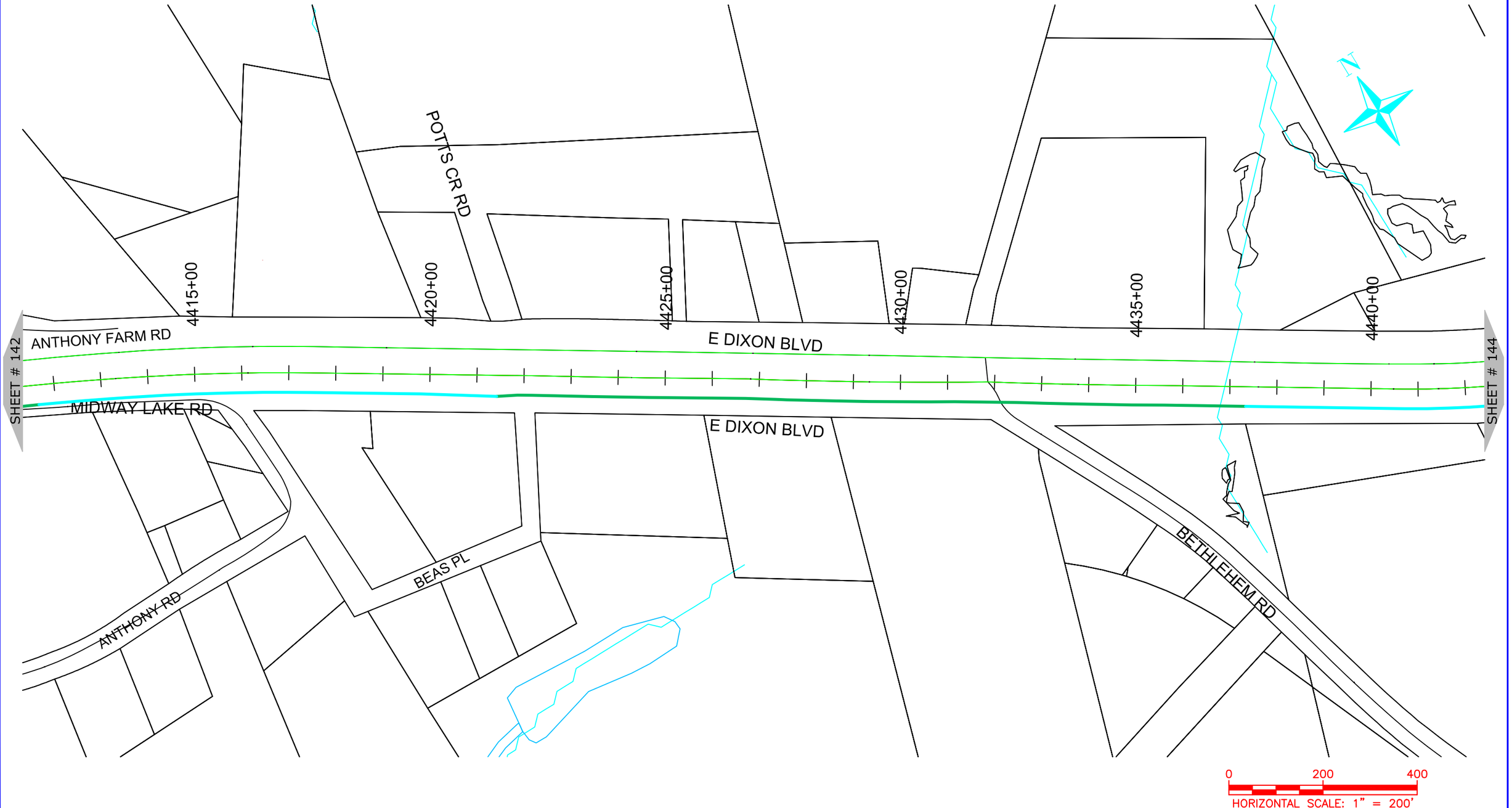
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 142

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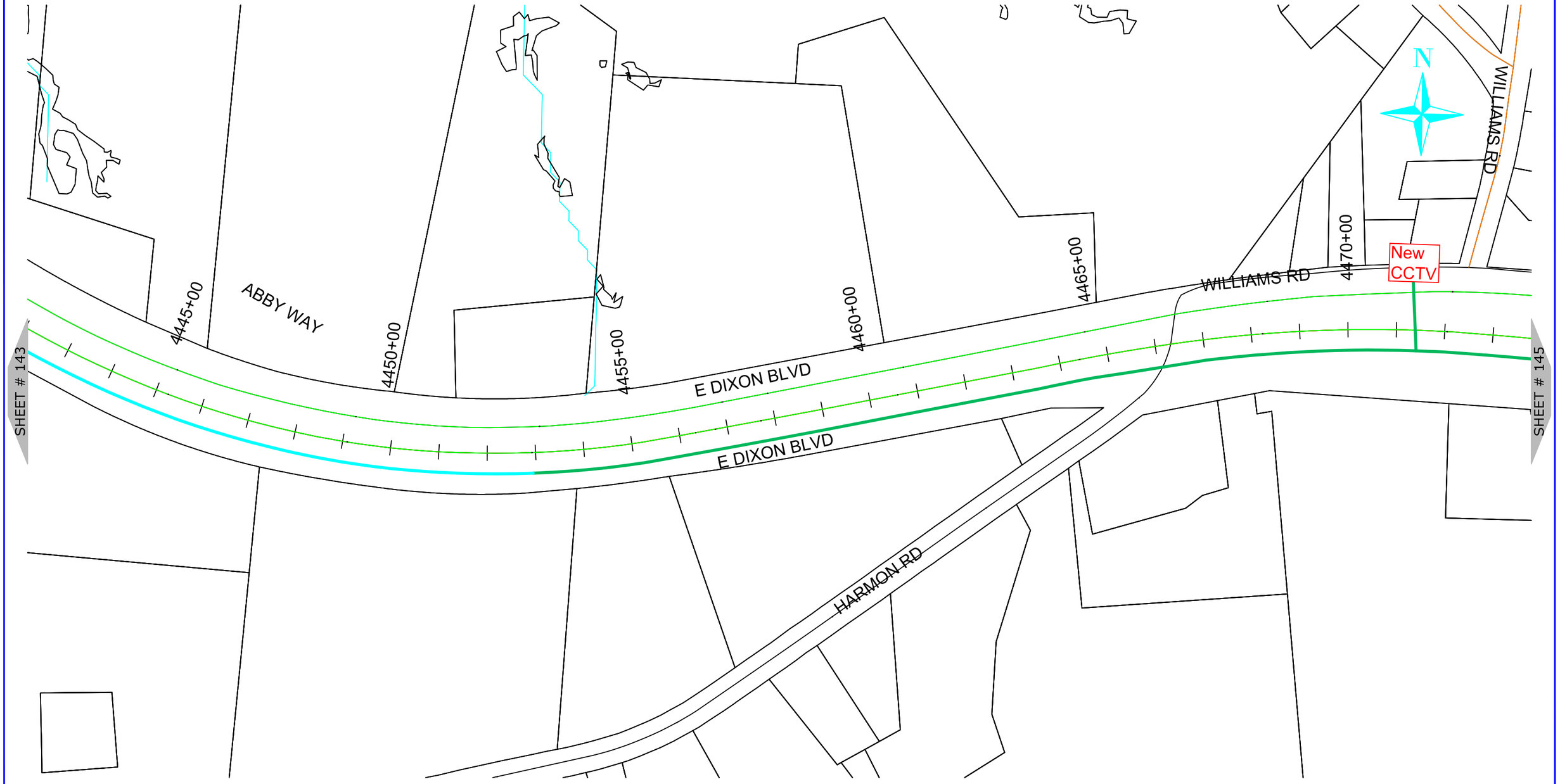
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PROJECT NAME: US-74

SHEET NAME: 143

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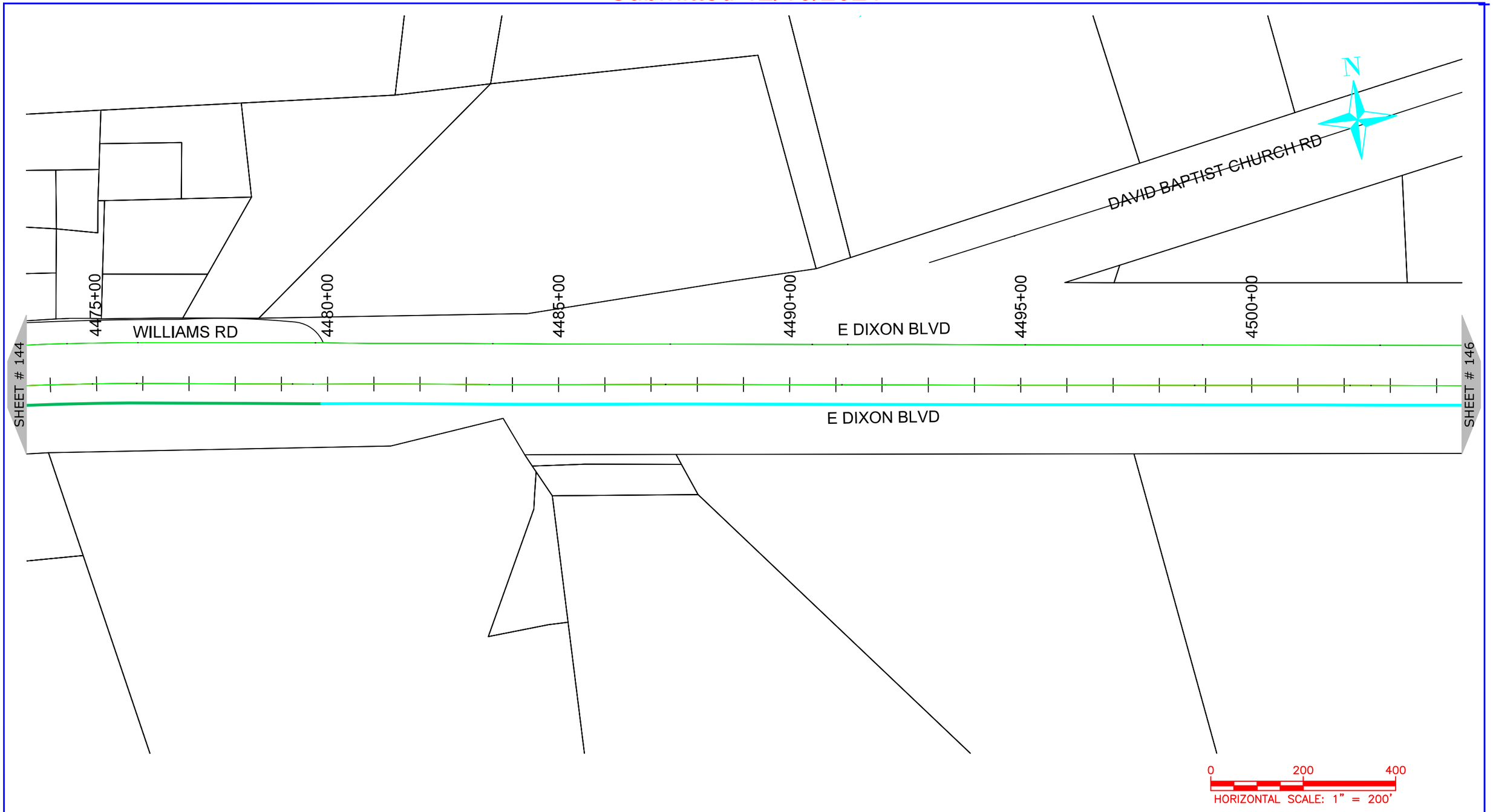
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 144

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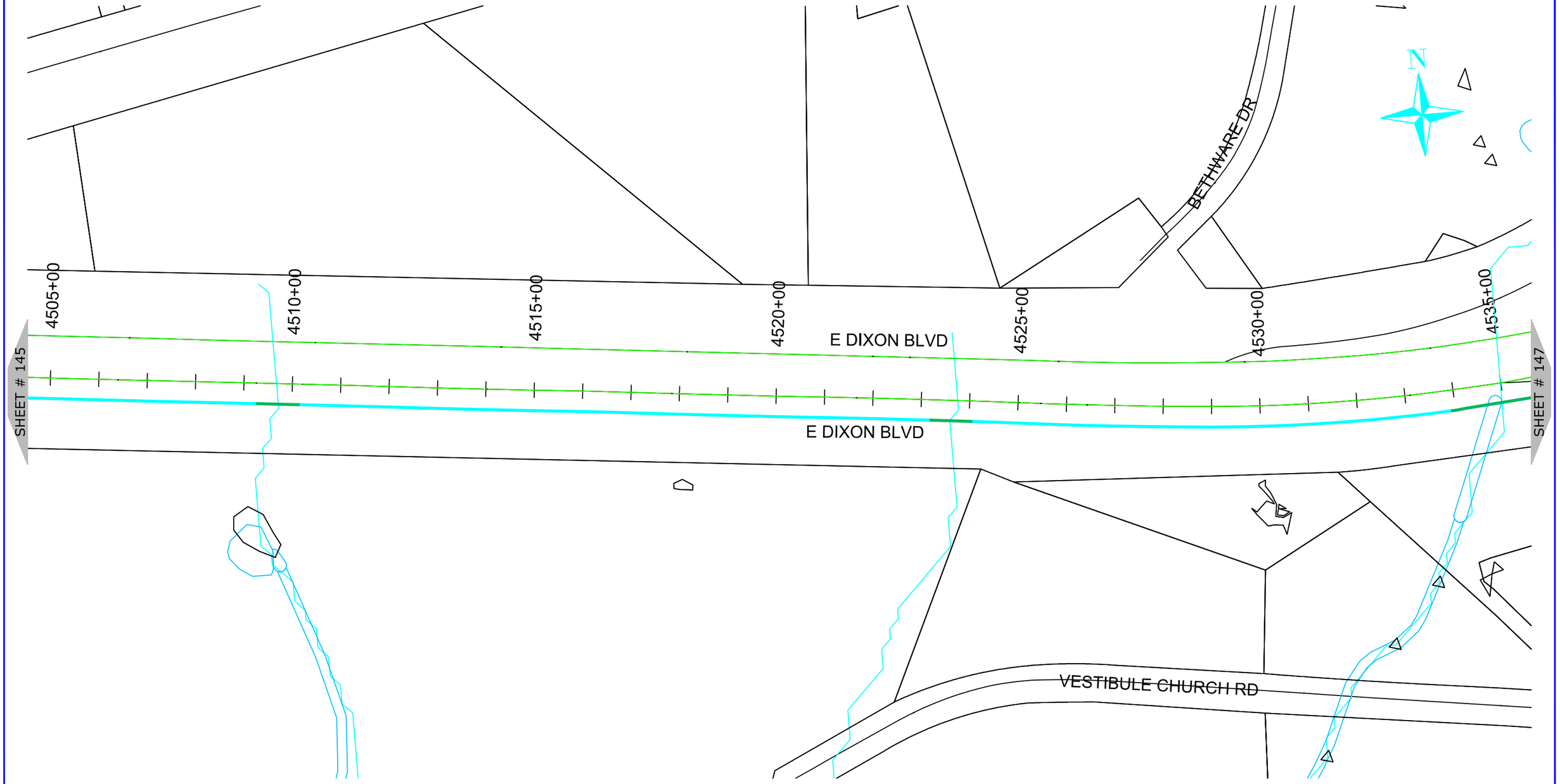
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
145

SHEET:
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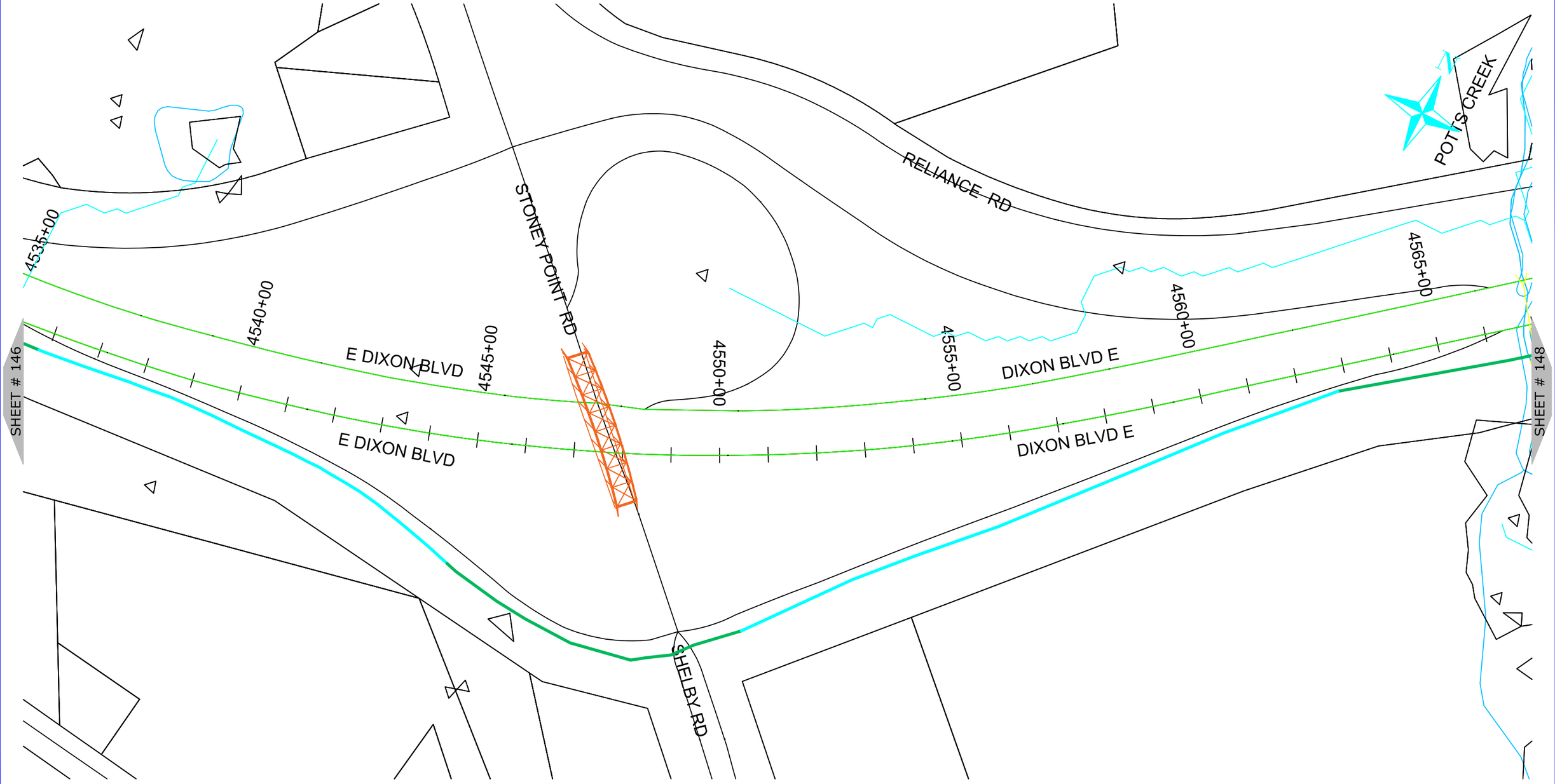
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 146

SHEET: 146

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 147

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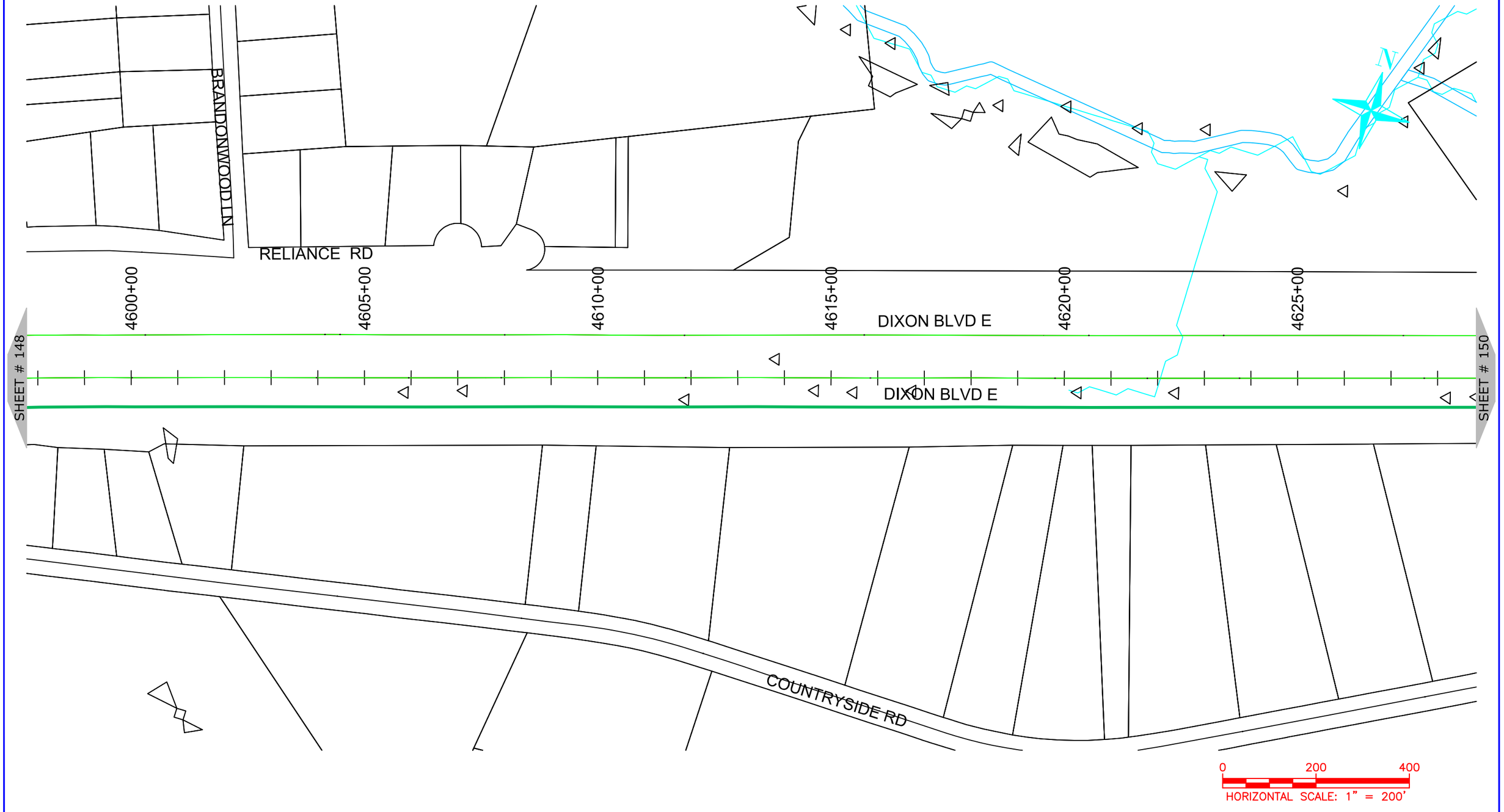
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 148

SHEET: 148

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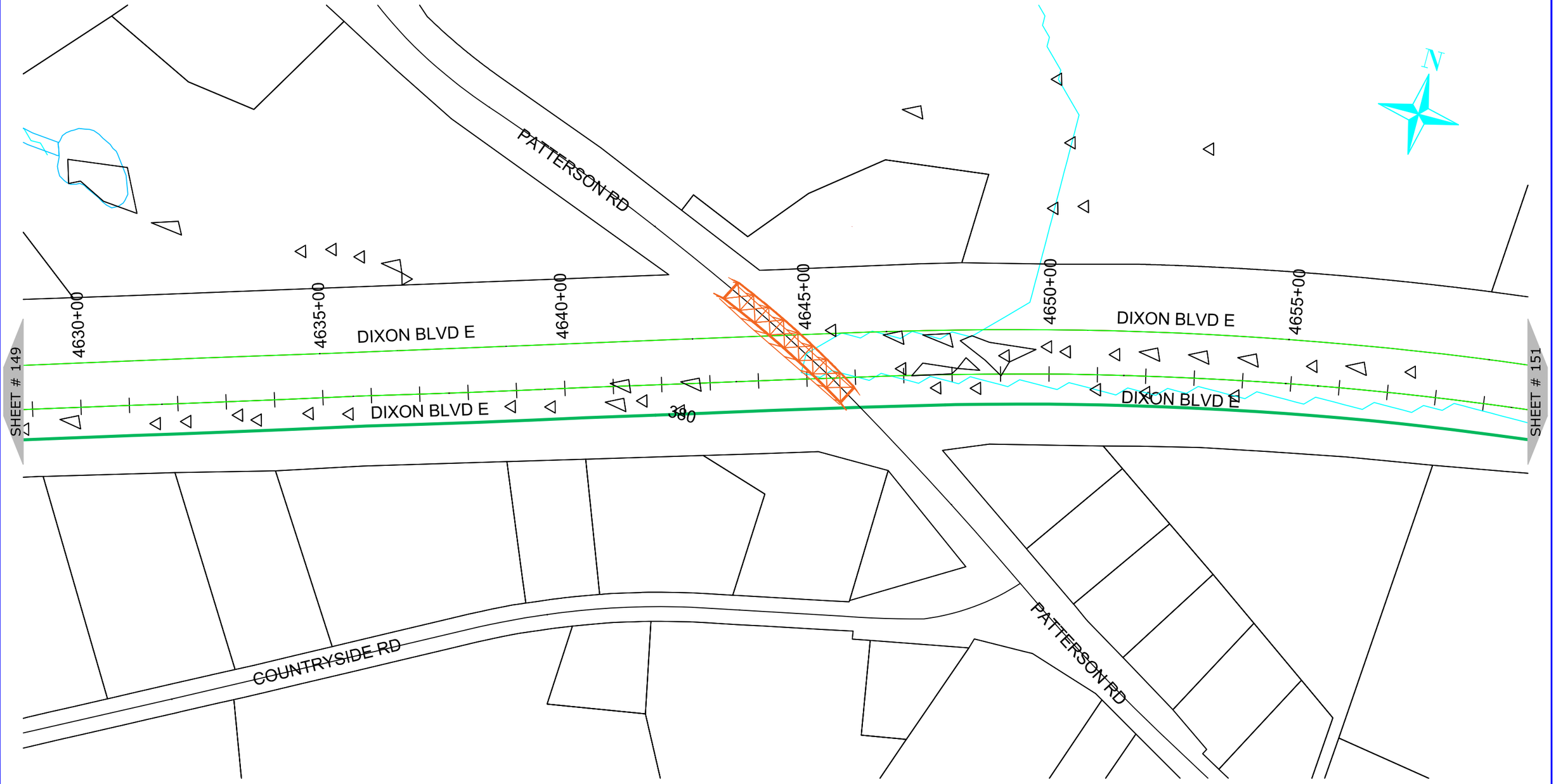
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 149

SHEET: 149

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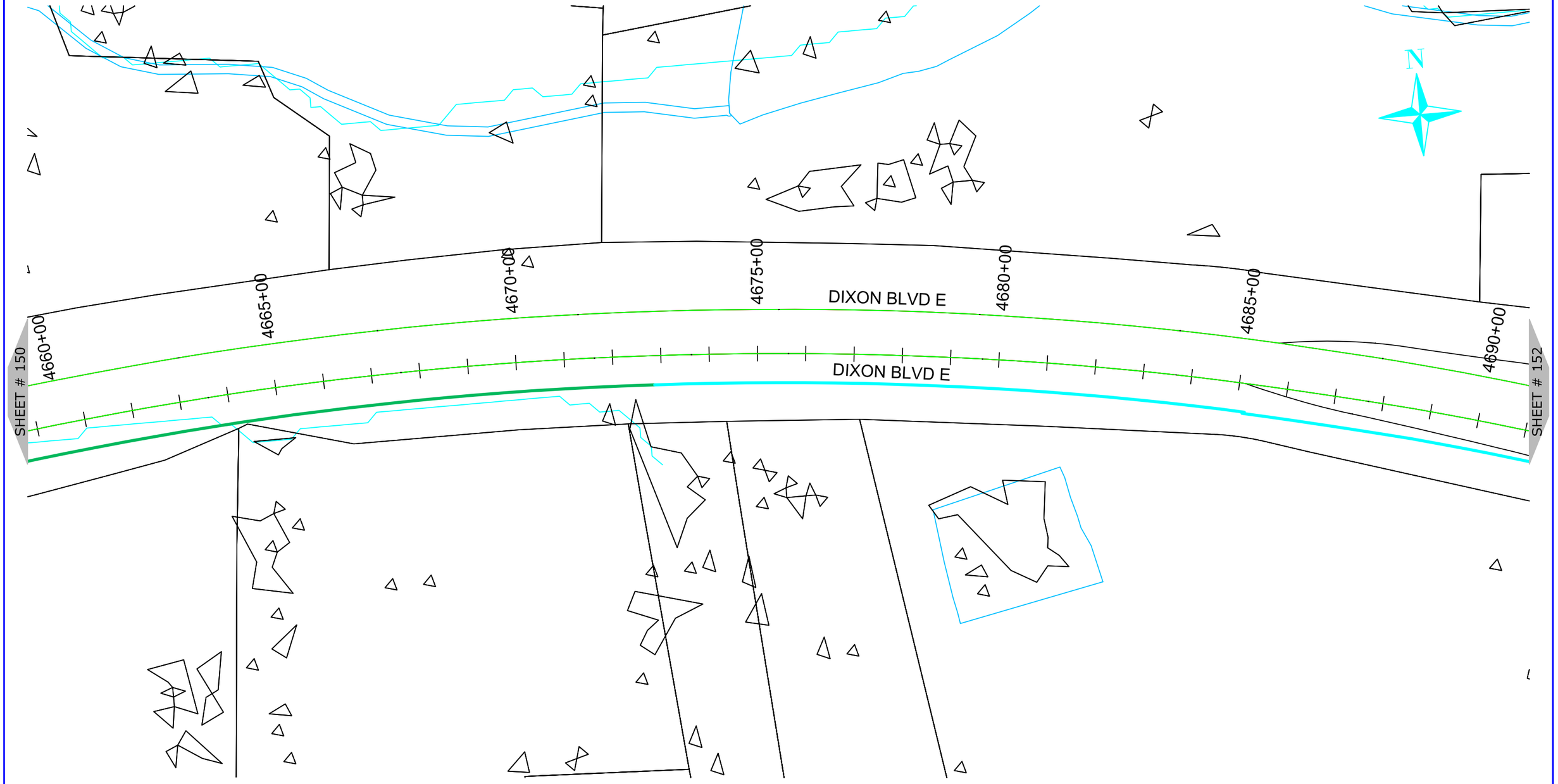
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 150

SHEET: 150

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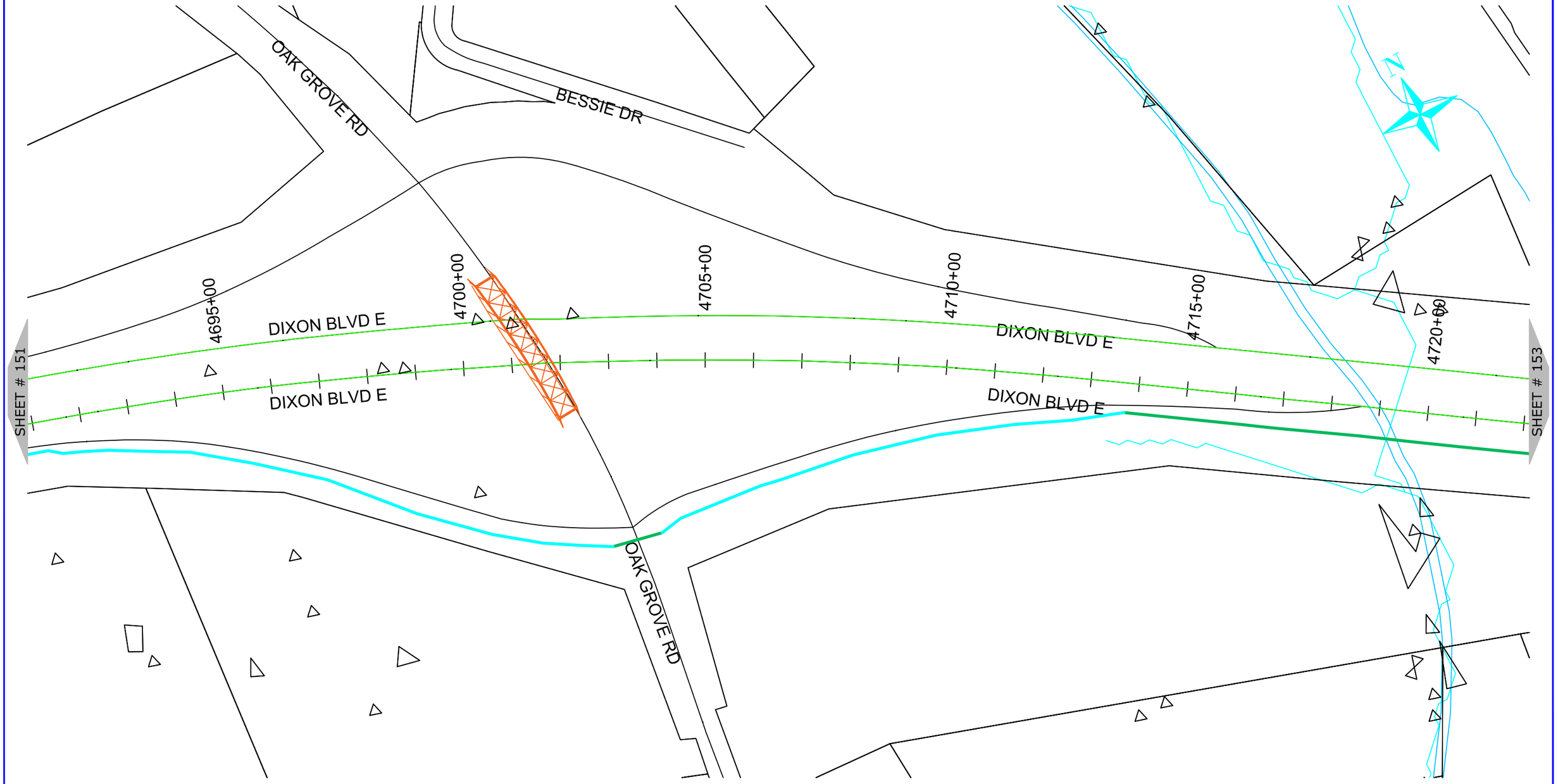
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PROJECT NAME: US-74

SHEET NAME: 151

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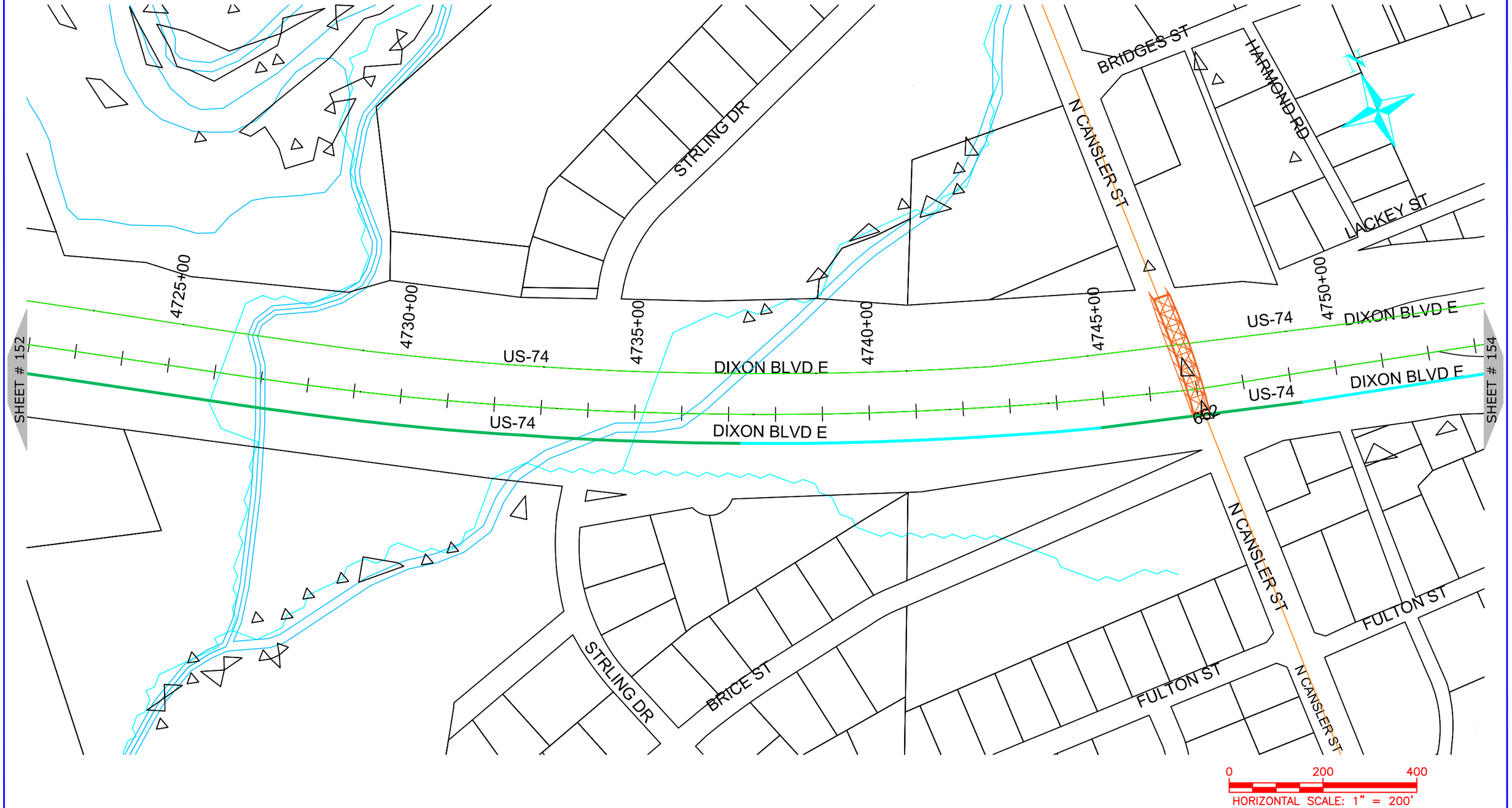
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DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 152

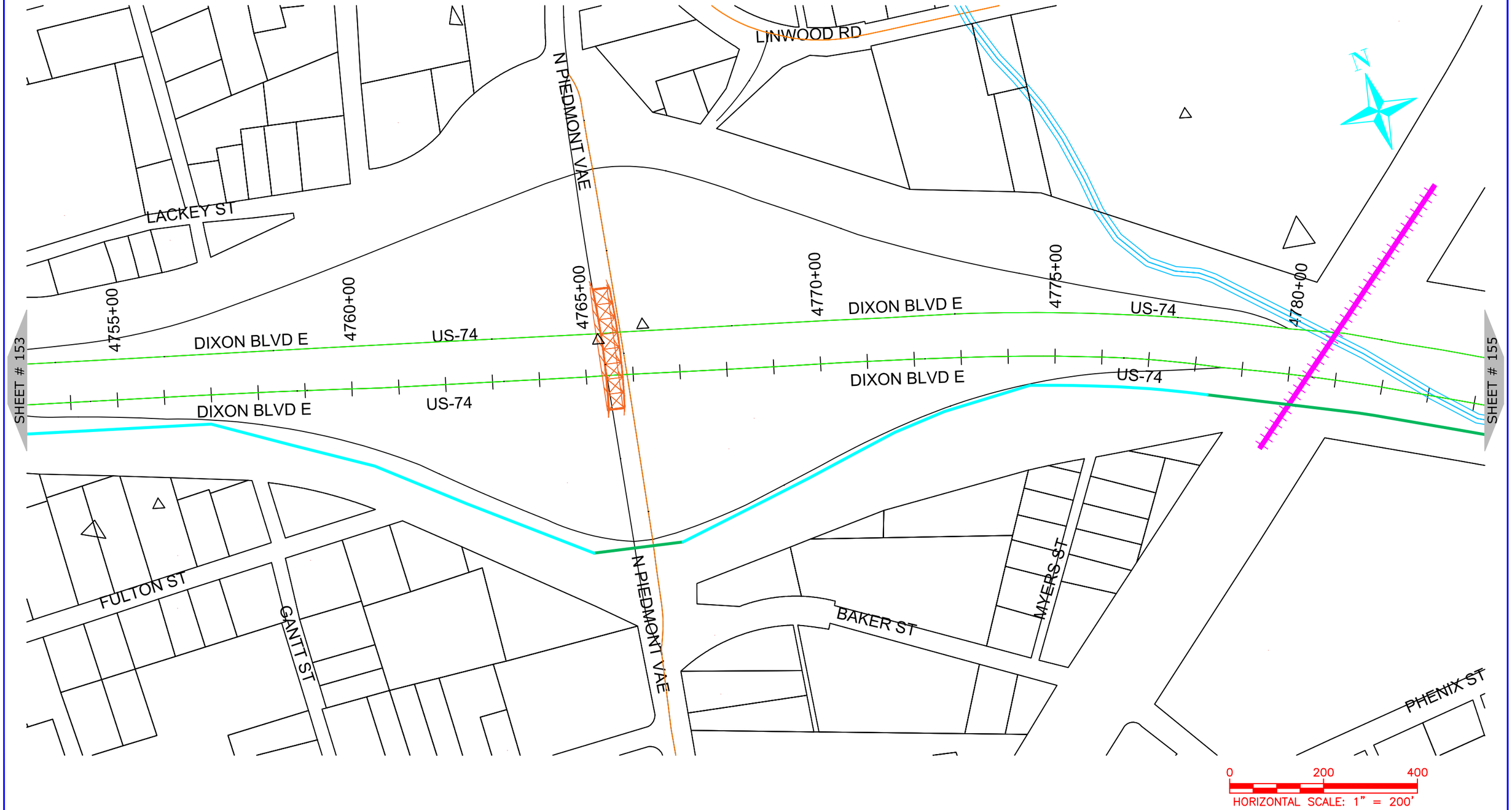
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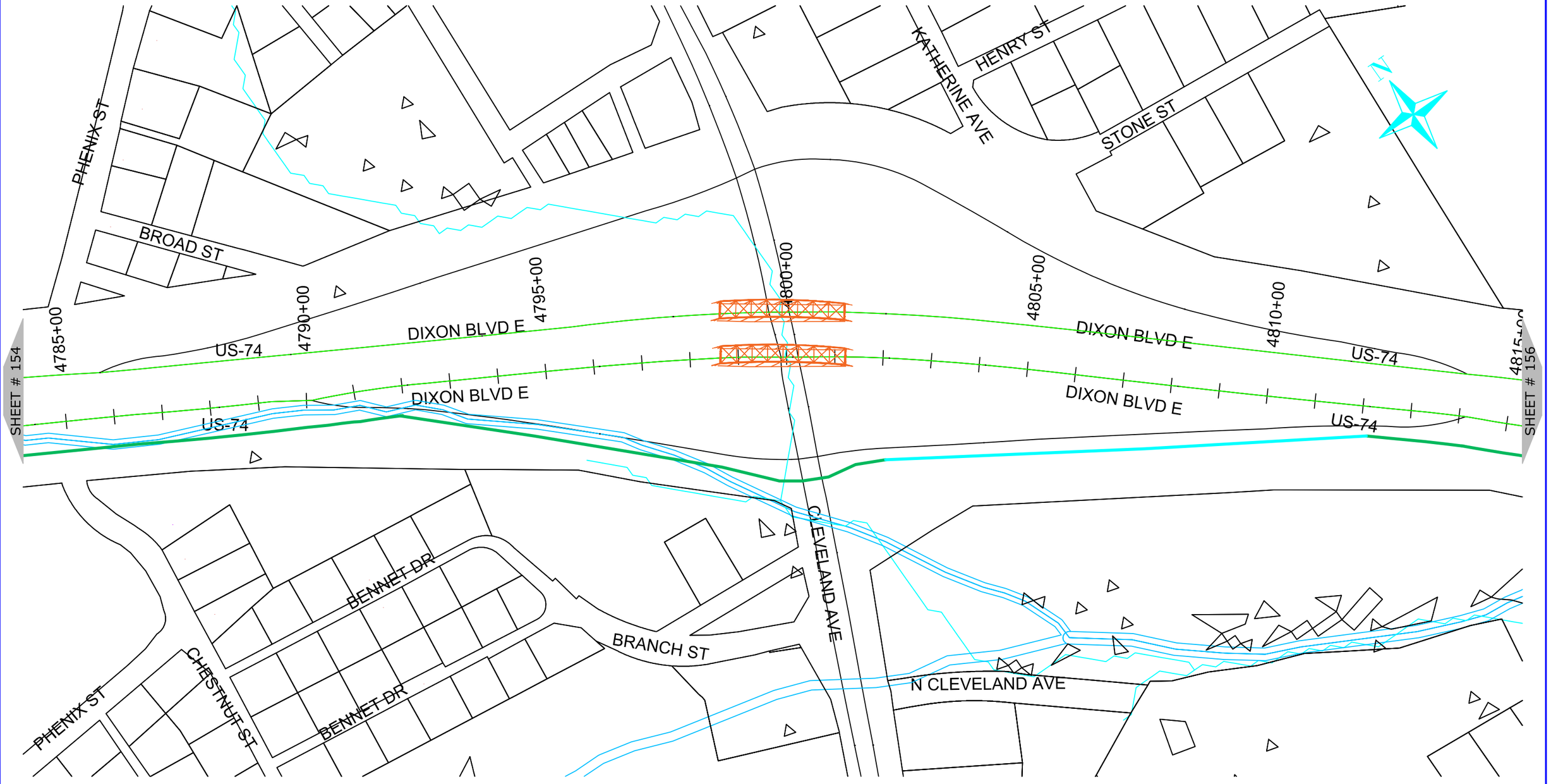
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 154

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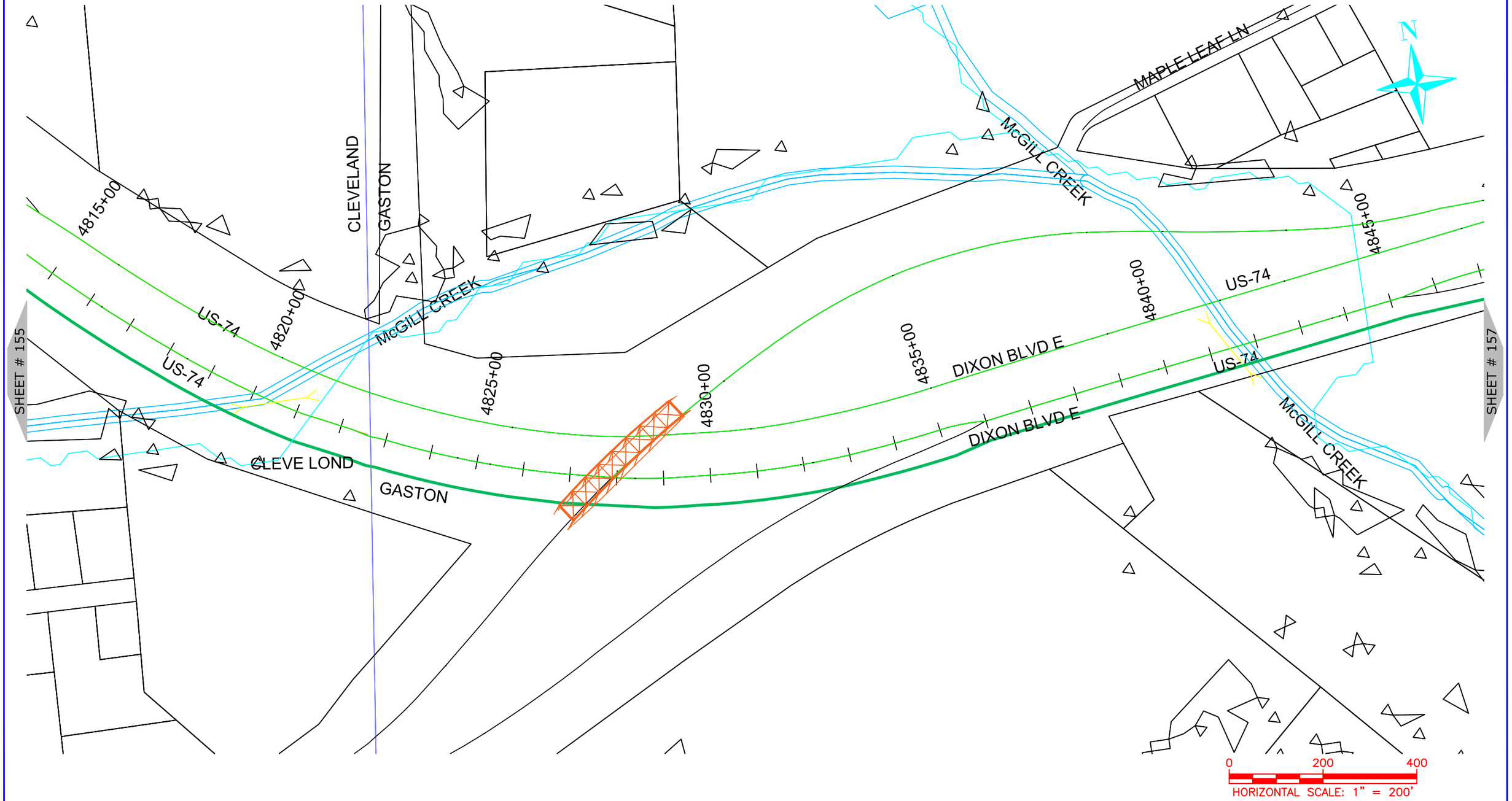
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 155

SHEET: 155

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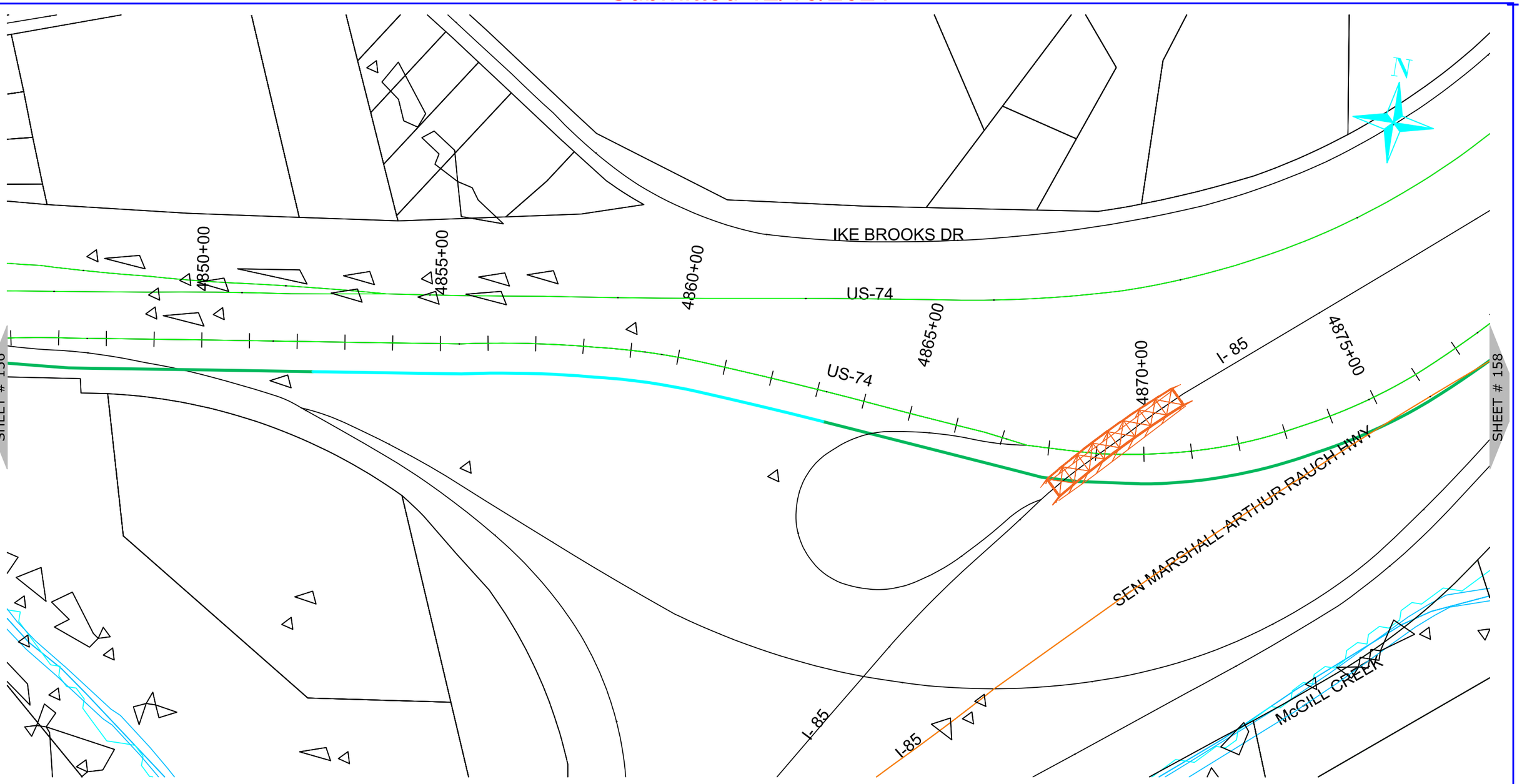
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 156

SHEET: 156

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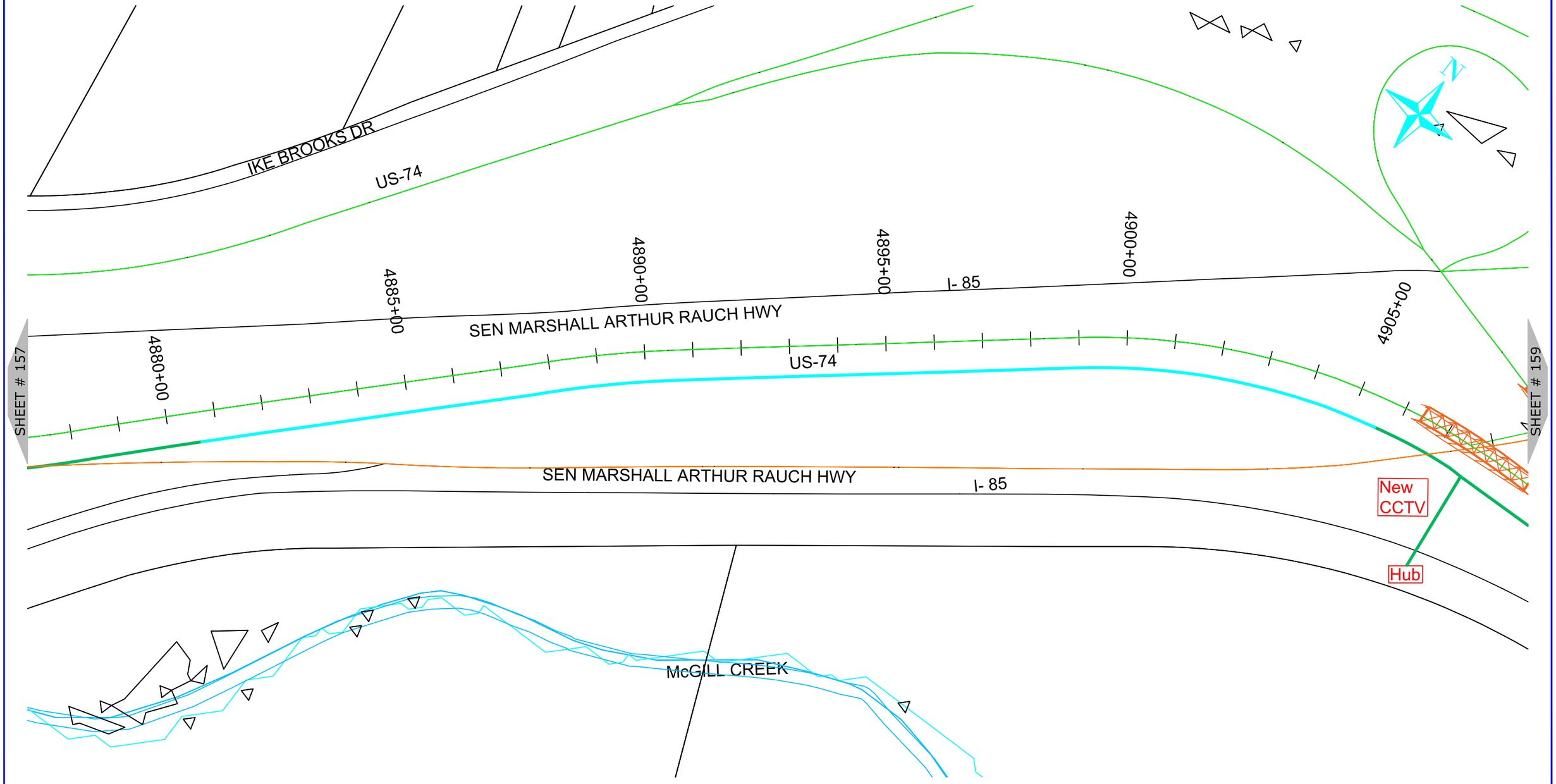
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 157

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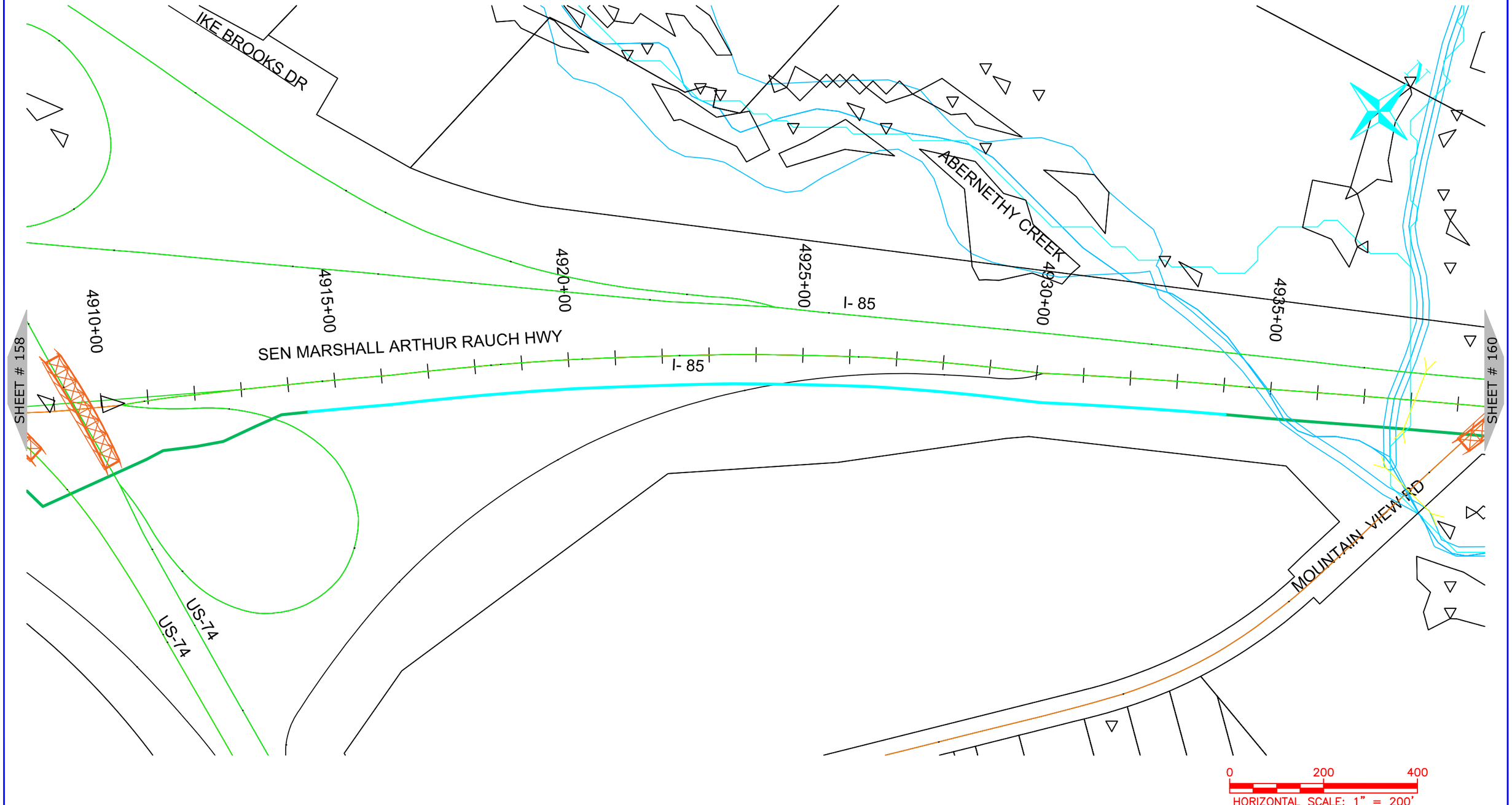
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 158

SHEET: 158

Submitted 12/16/2021



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3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
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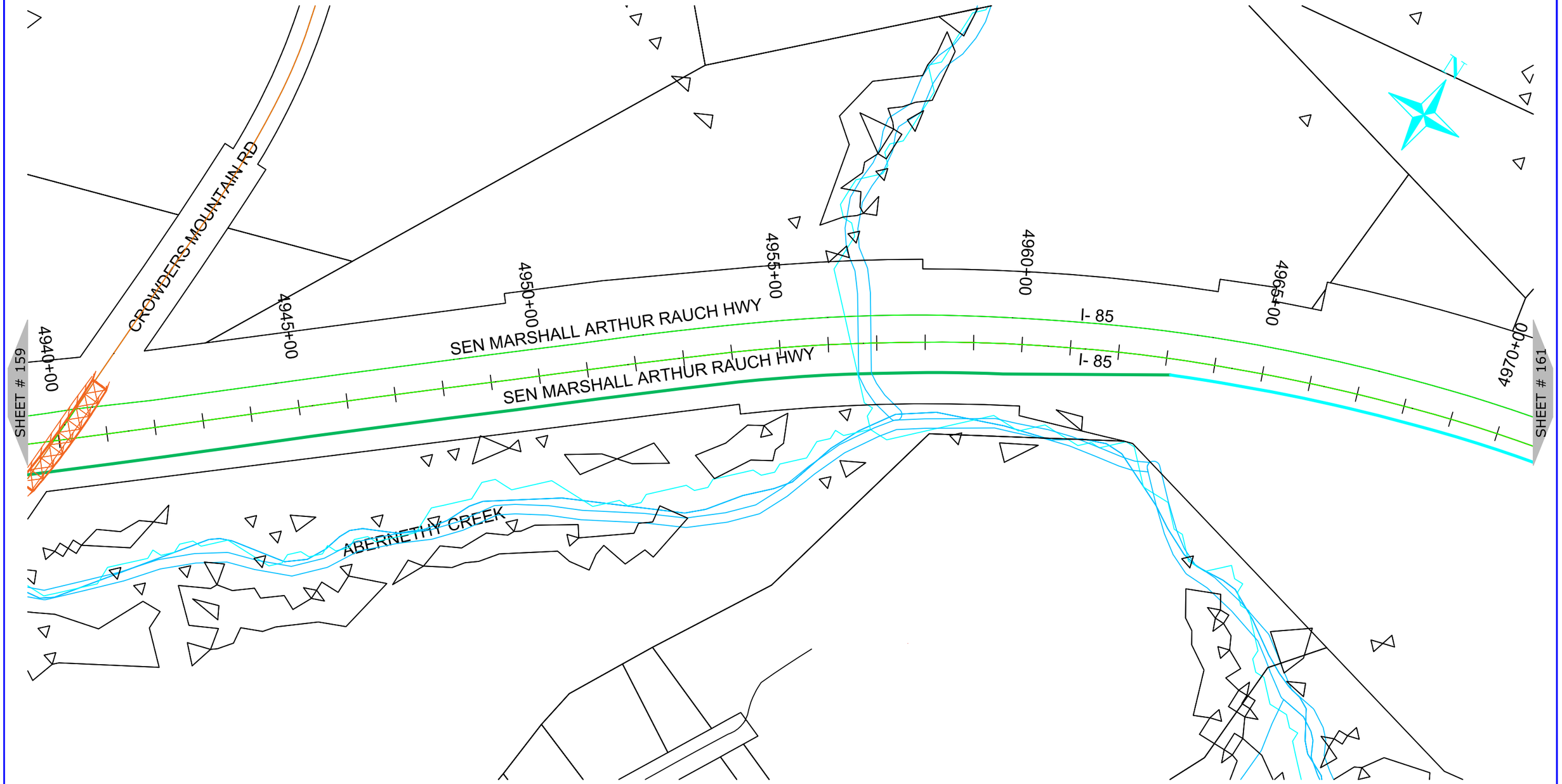
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PROJECT NAME: US-74

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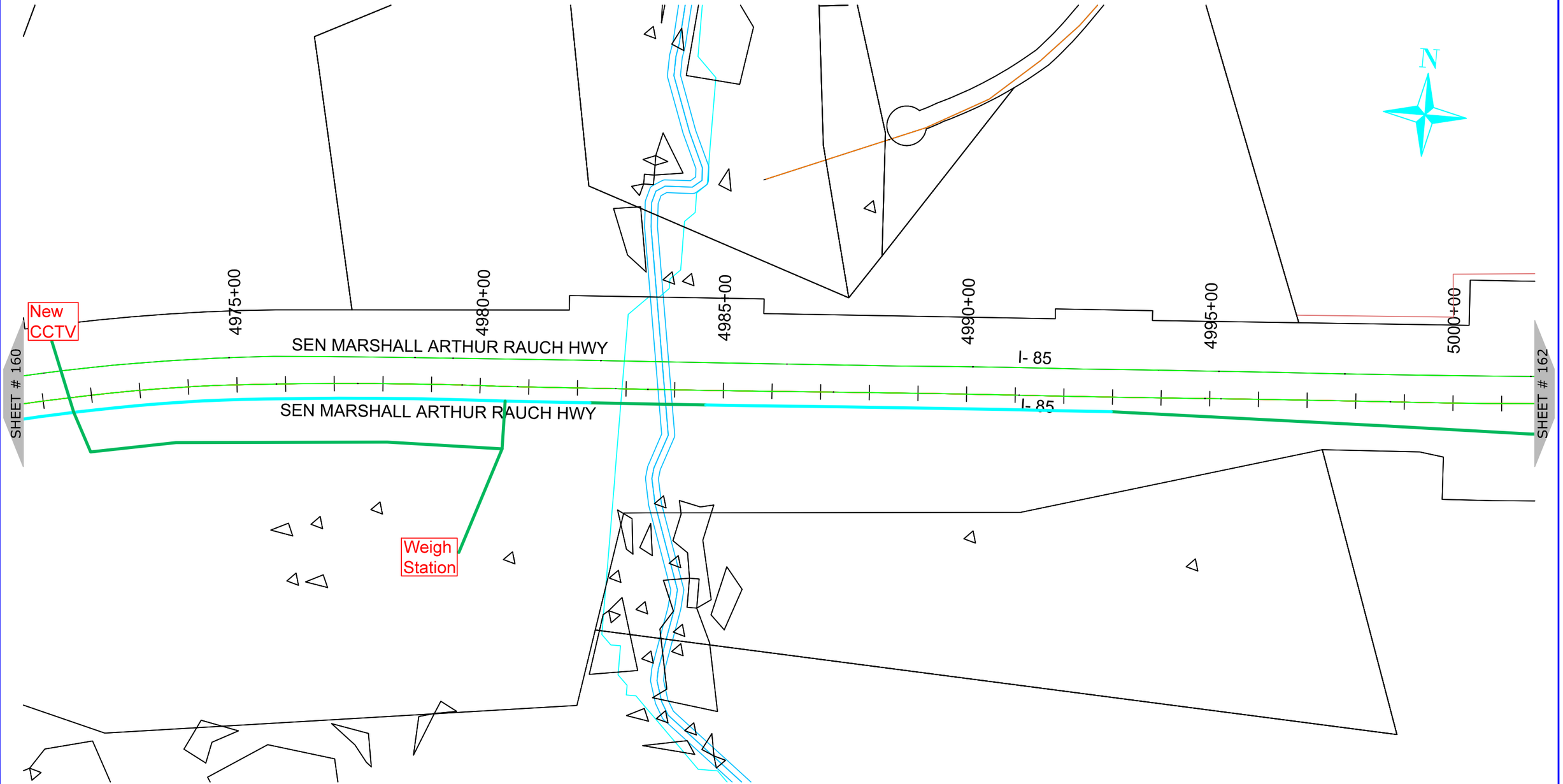
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PROJECT NAME: US-74

SHEET NAME: 160

SHEET: 160

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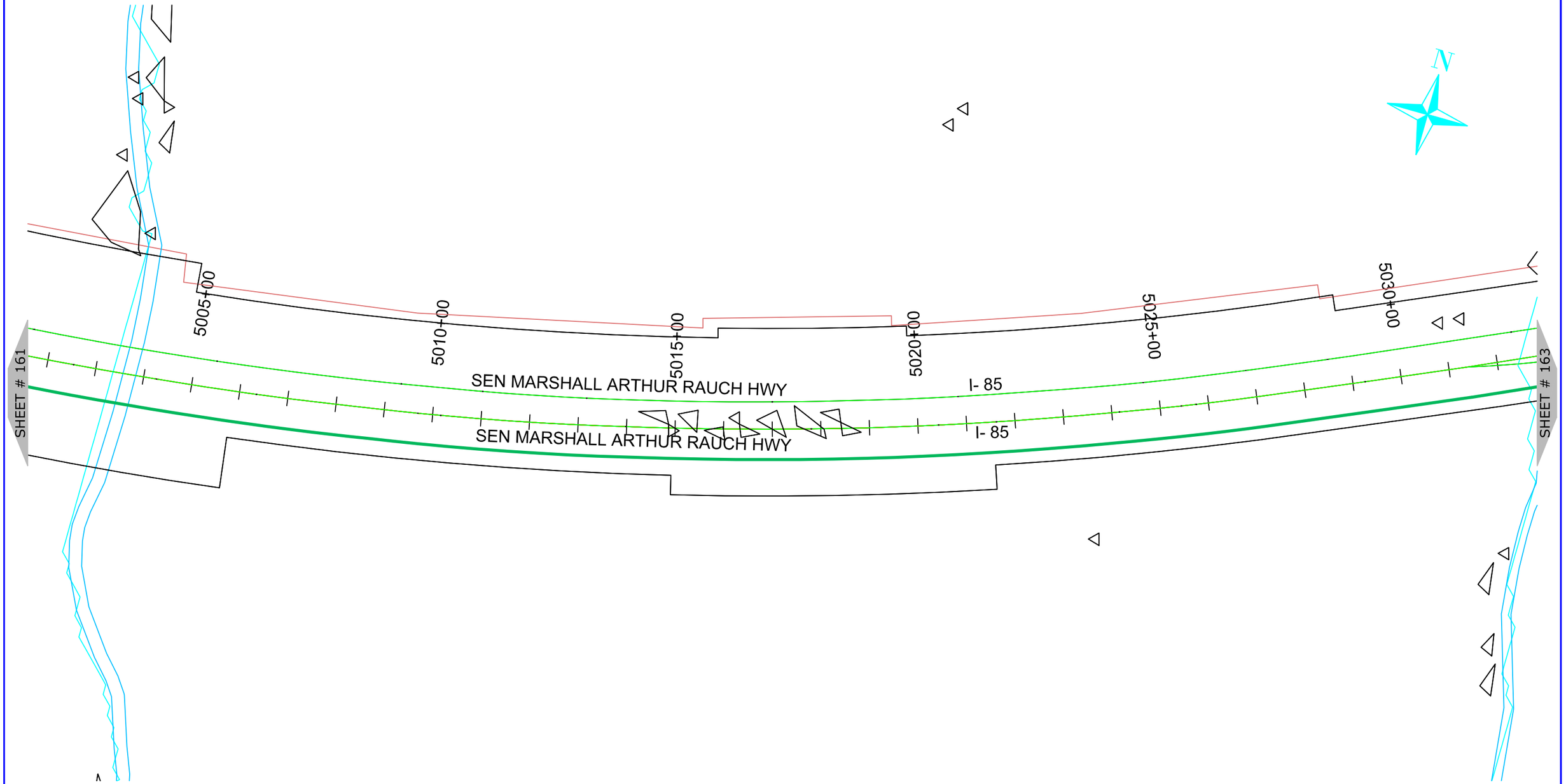
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PROJECT NAME: US-74

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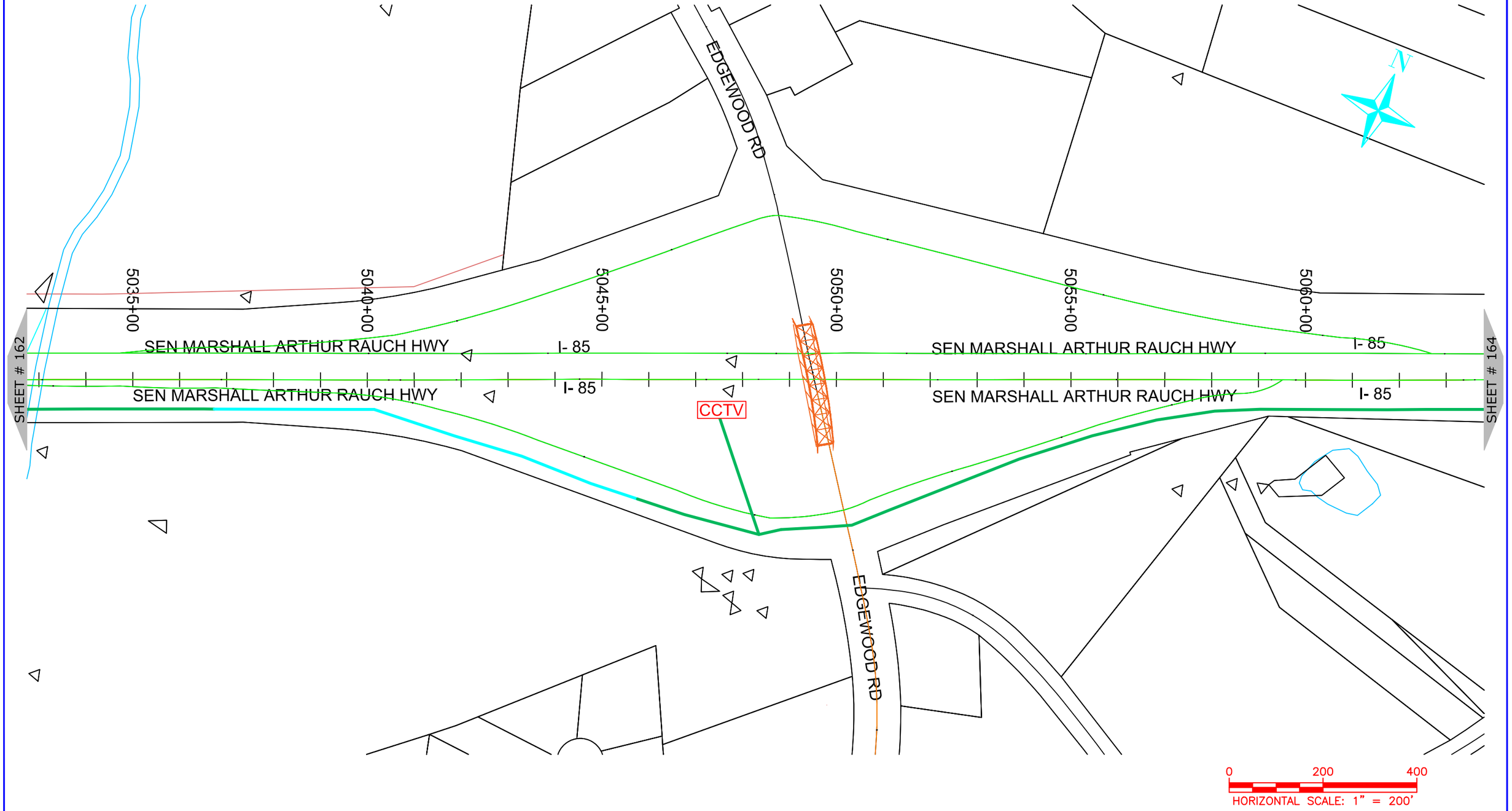
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PROJECT NAME: US-74

SHEET NAME: 162

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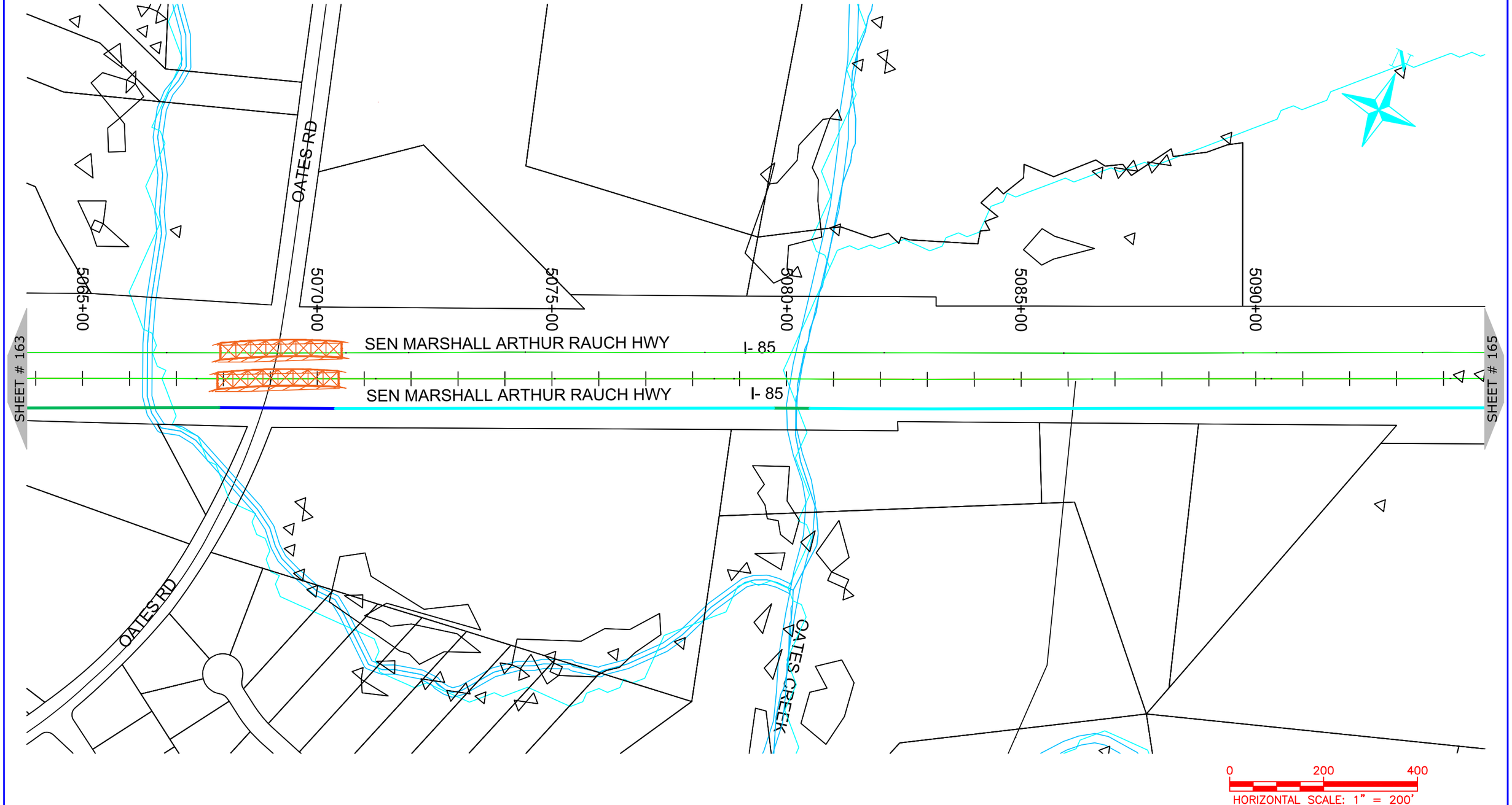
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PROJECT NAME:
US-74

SHEET NAME:
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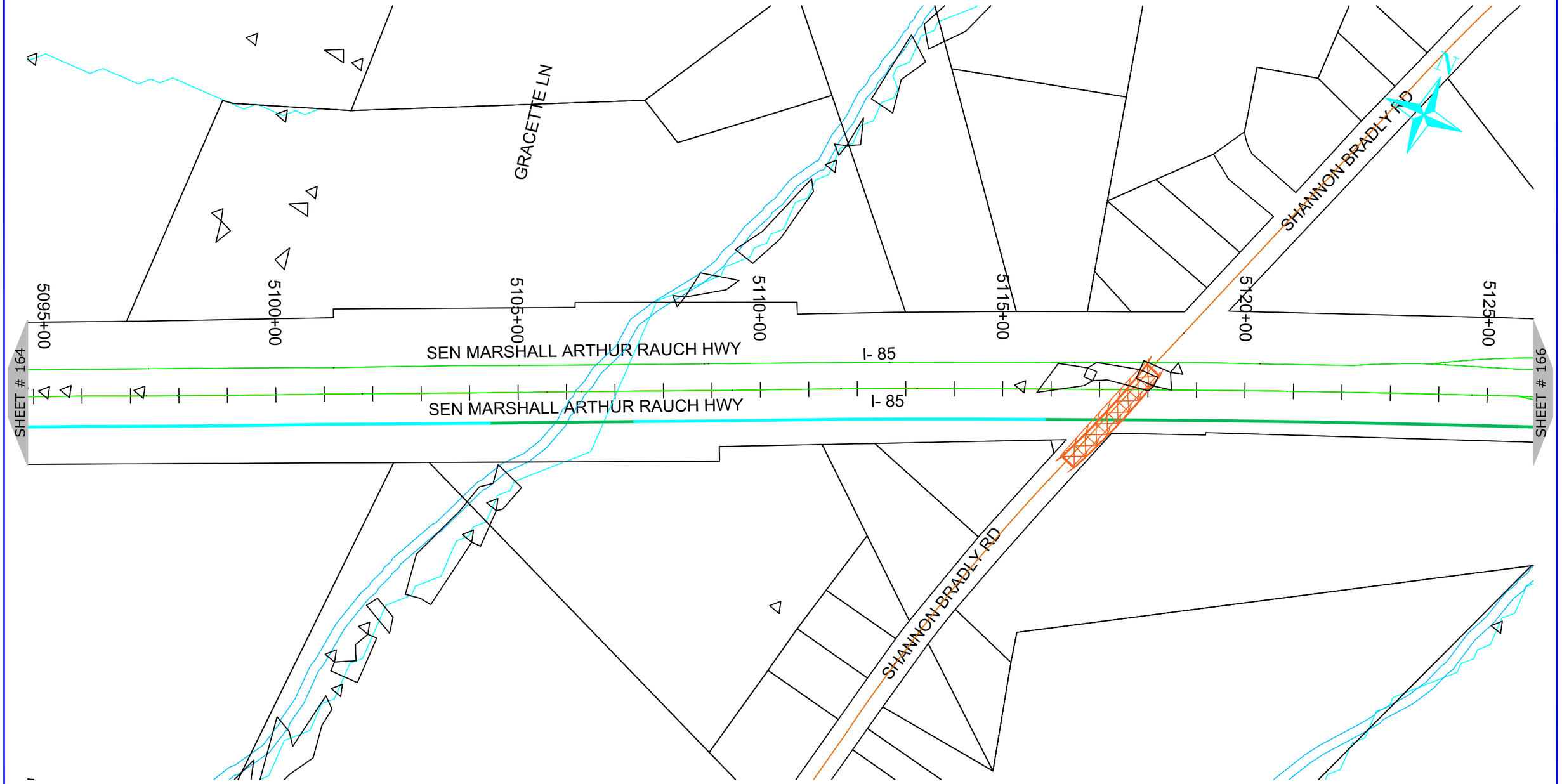
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PROJECT NAME: US-74

SHEET NAME: 164

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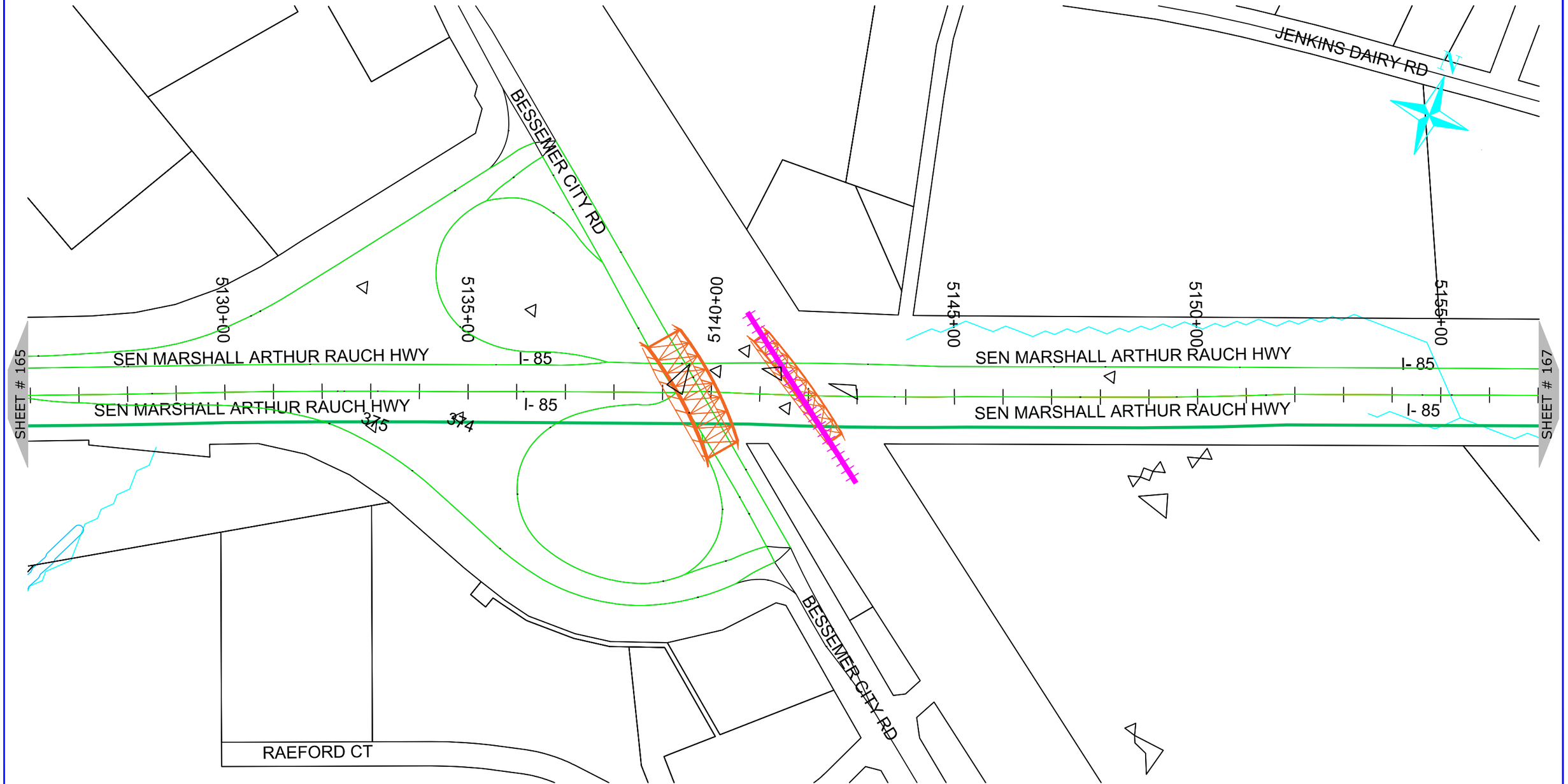
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PROJECT NAME: US-74

SHEET NAME: 165

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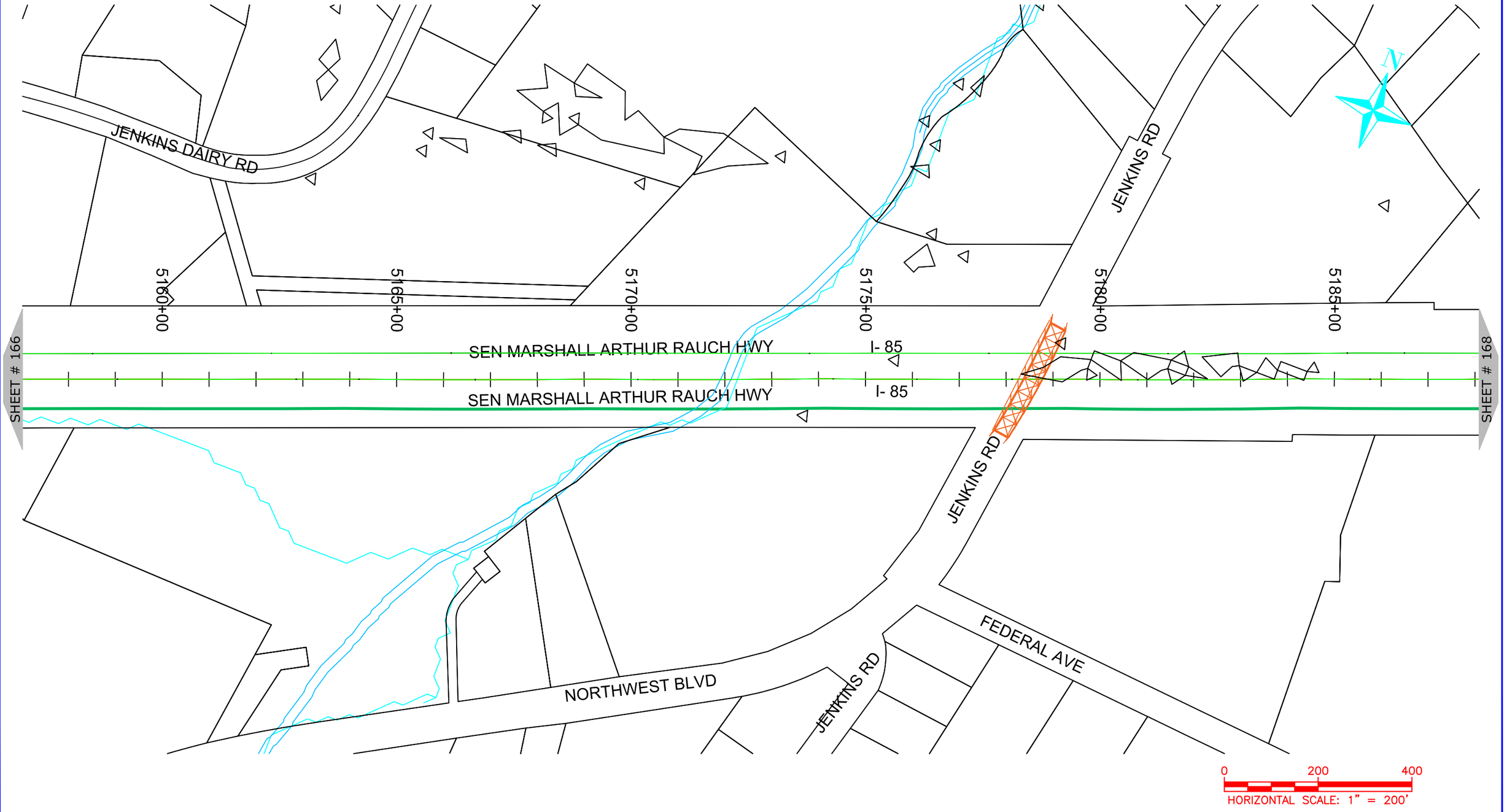
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PROJECT NAME: US-74

SHEET NAME: 166

SHEET: 166

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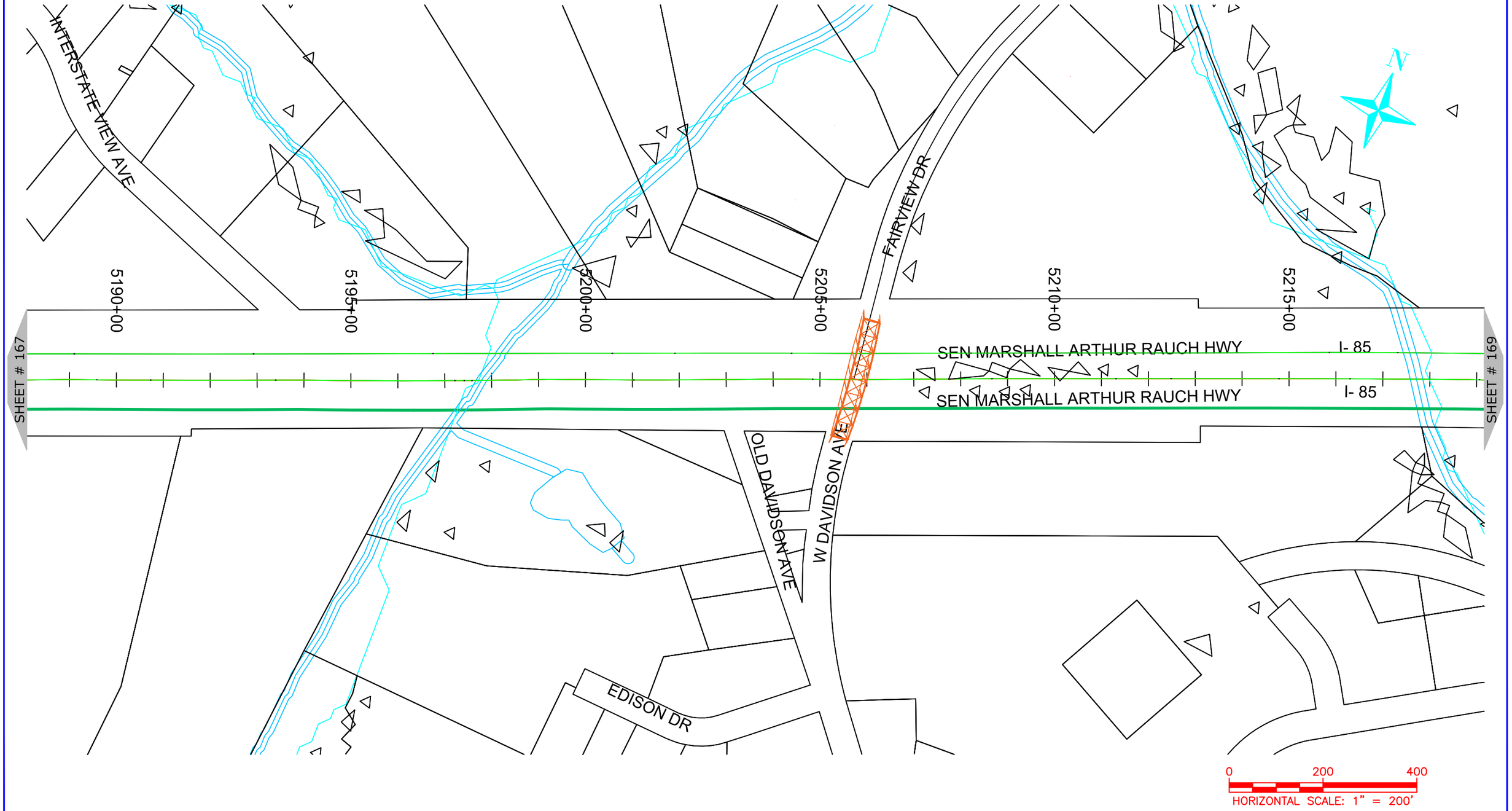
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PROJECT NAME:
US-74

SHEET NAME:
167

SHEET:
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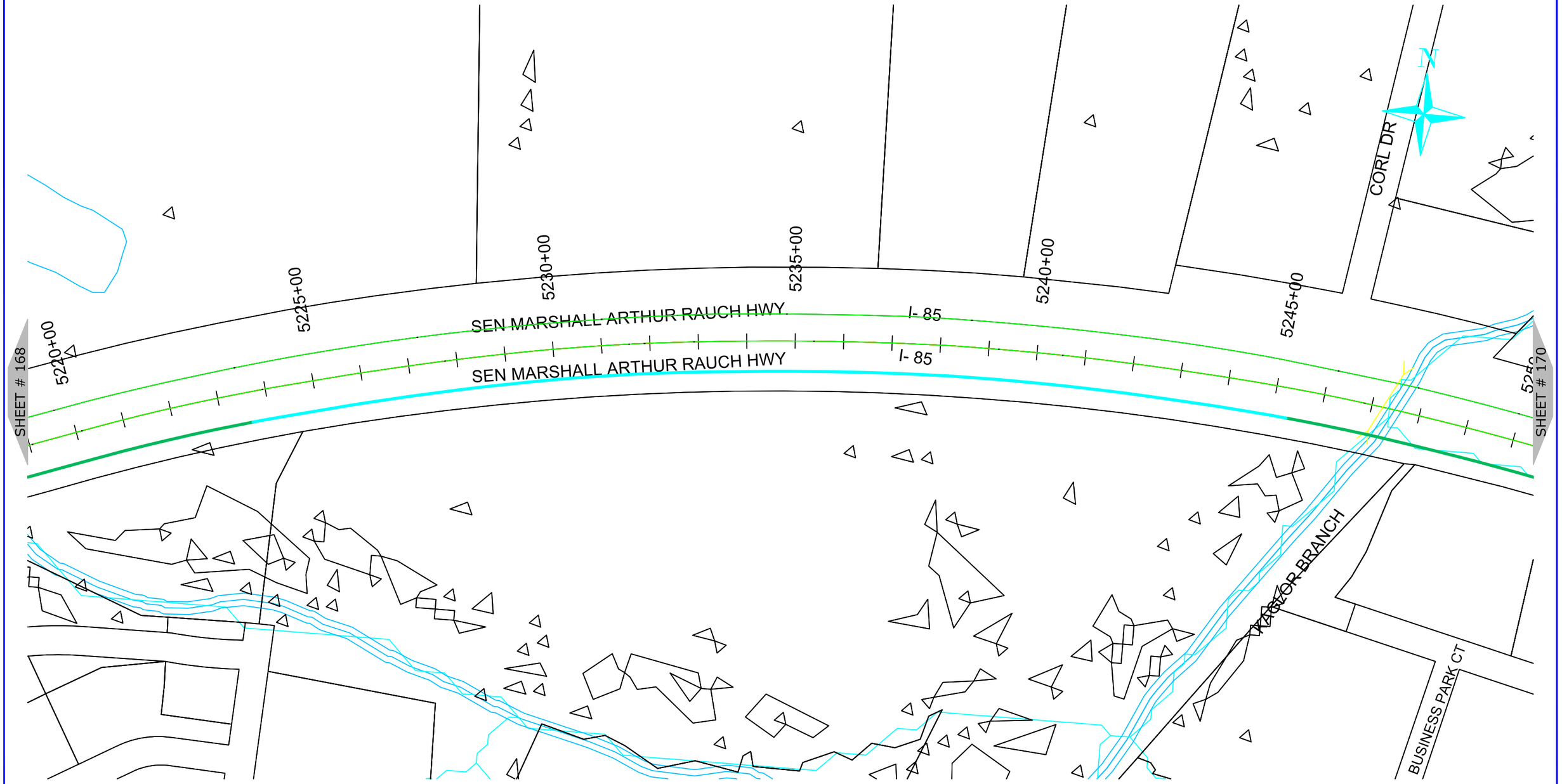
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PROJECT NAME: US-74

SHEET NAME: 168

SHEET: 168

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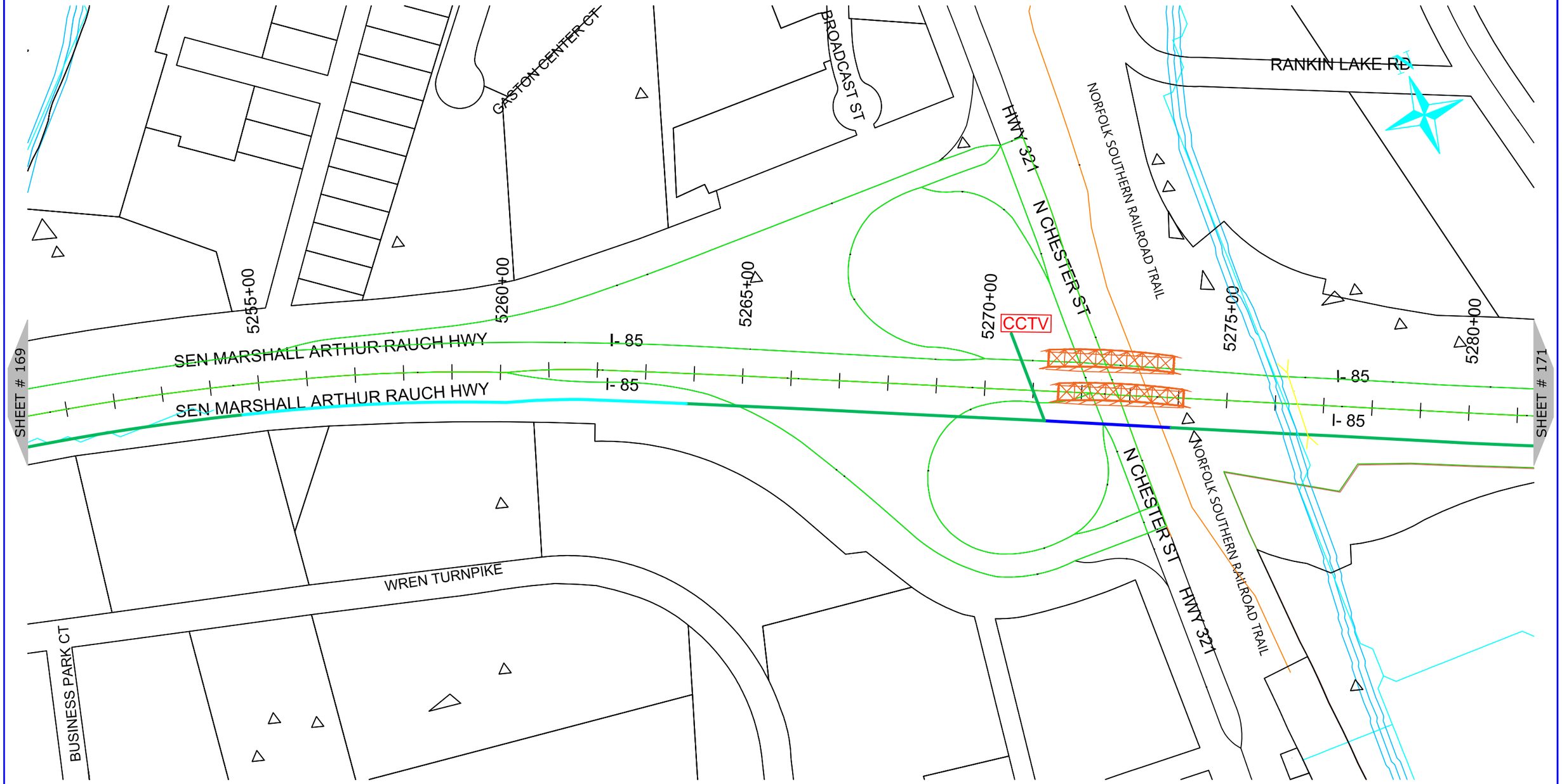
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PROJECT NAME:
US-74

SHEET NAME:
169

SHEET:
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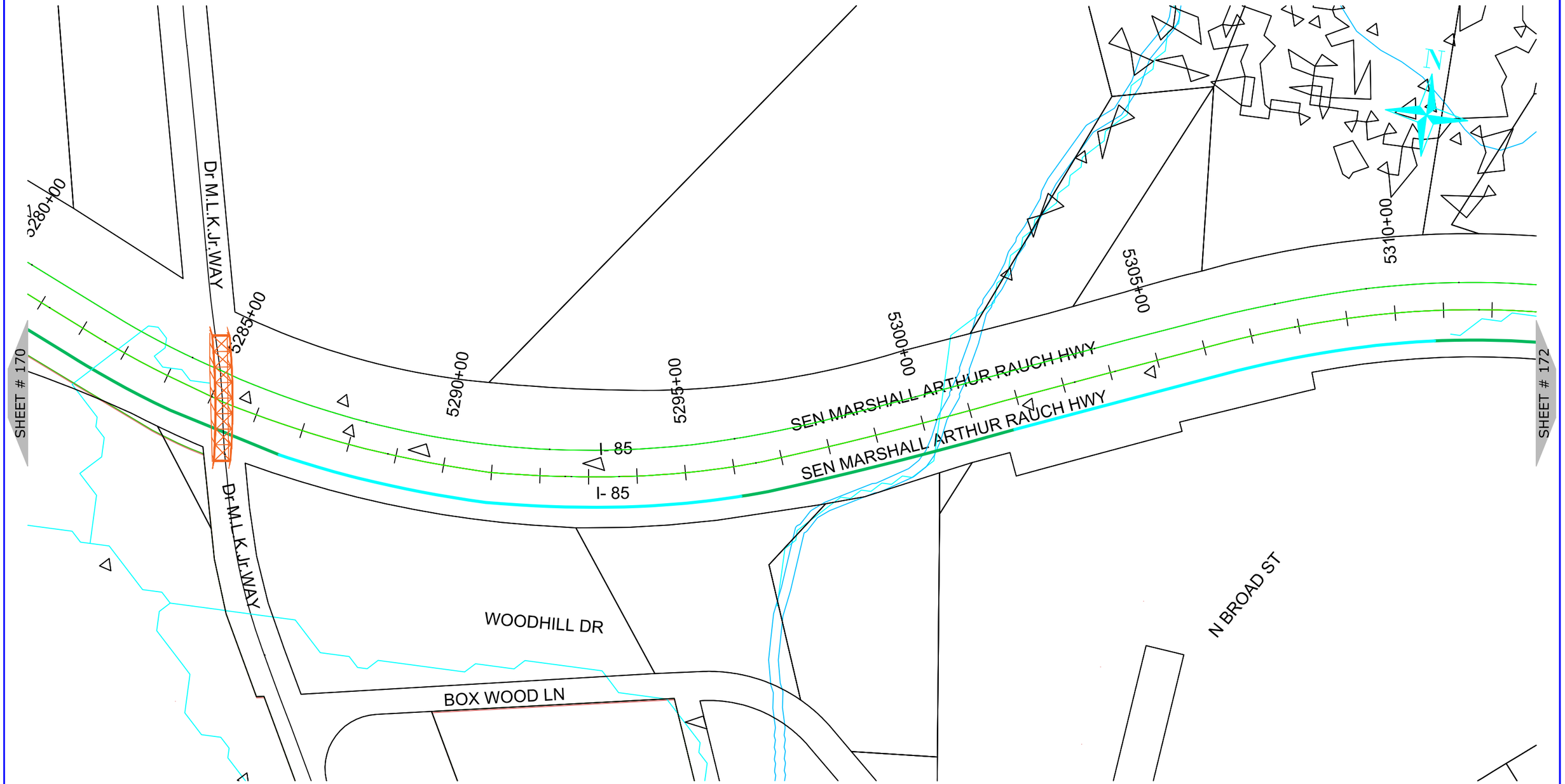
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 170

SHEET: 170

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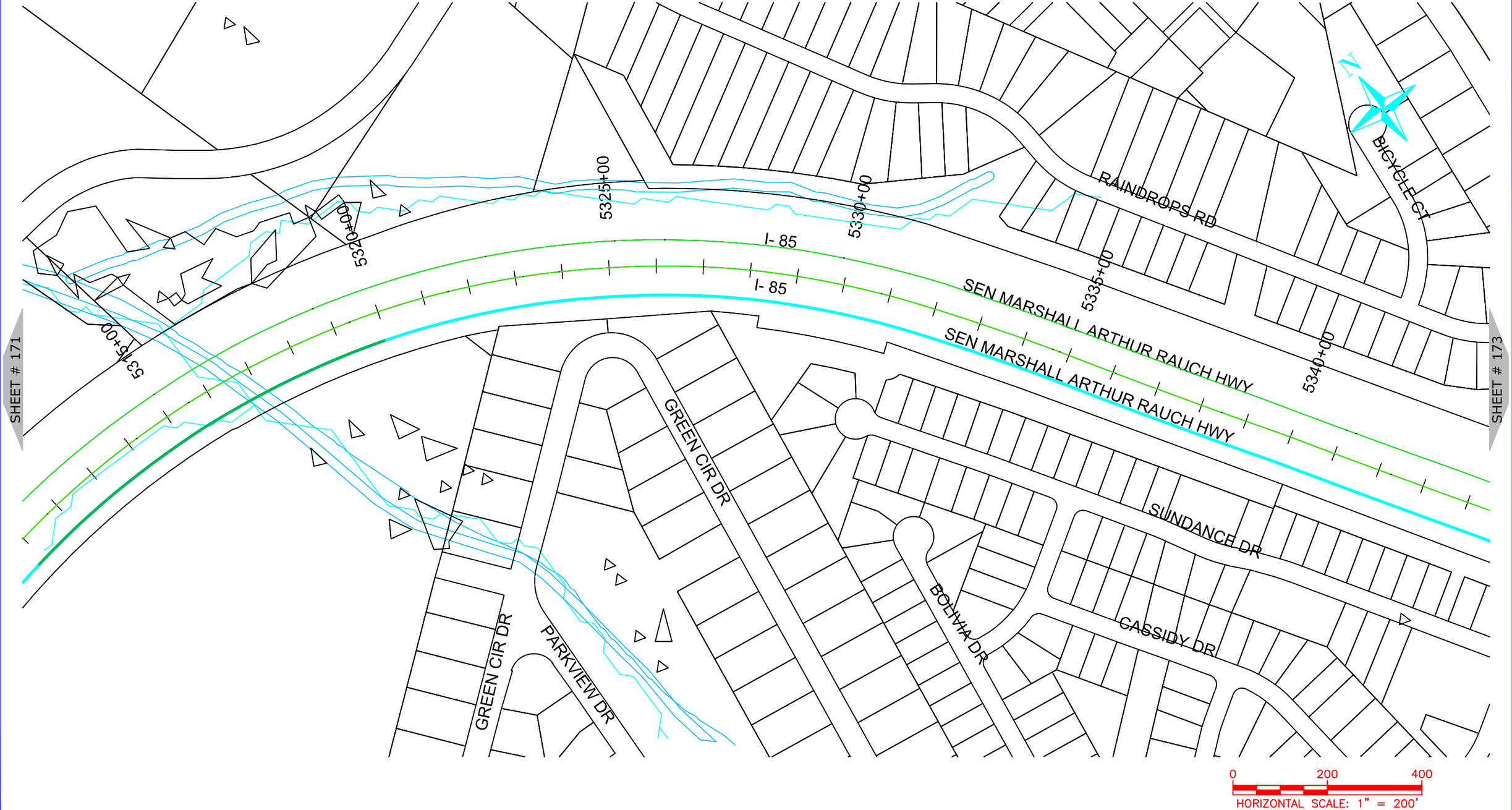
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PROJECT NAME: US-74

SHEET NAME: 171

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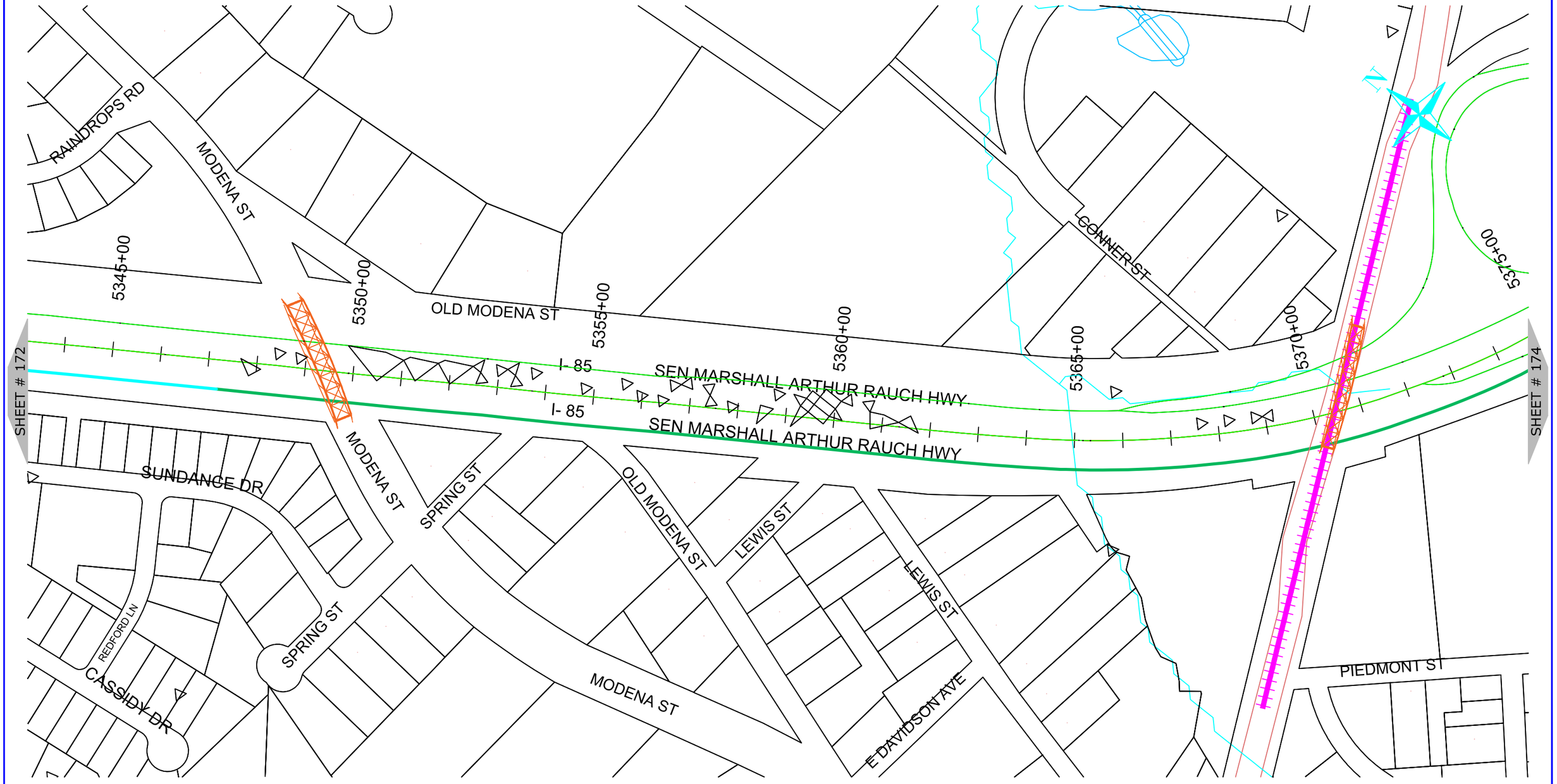
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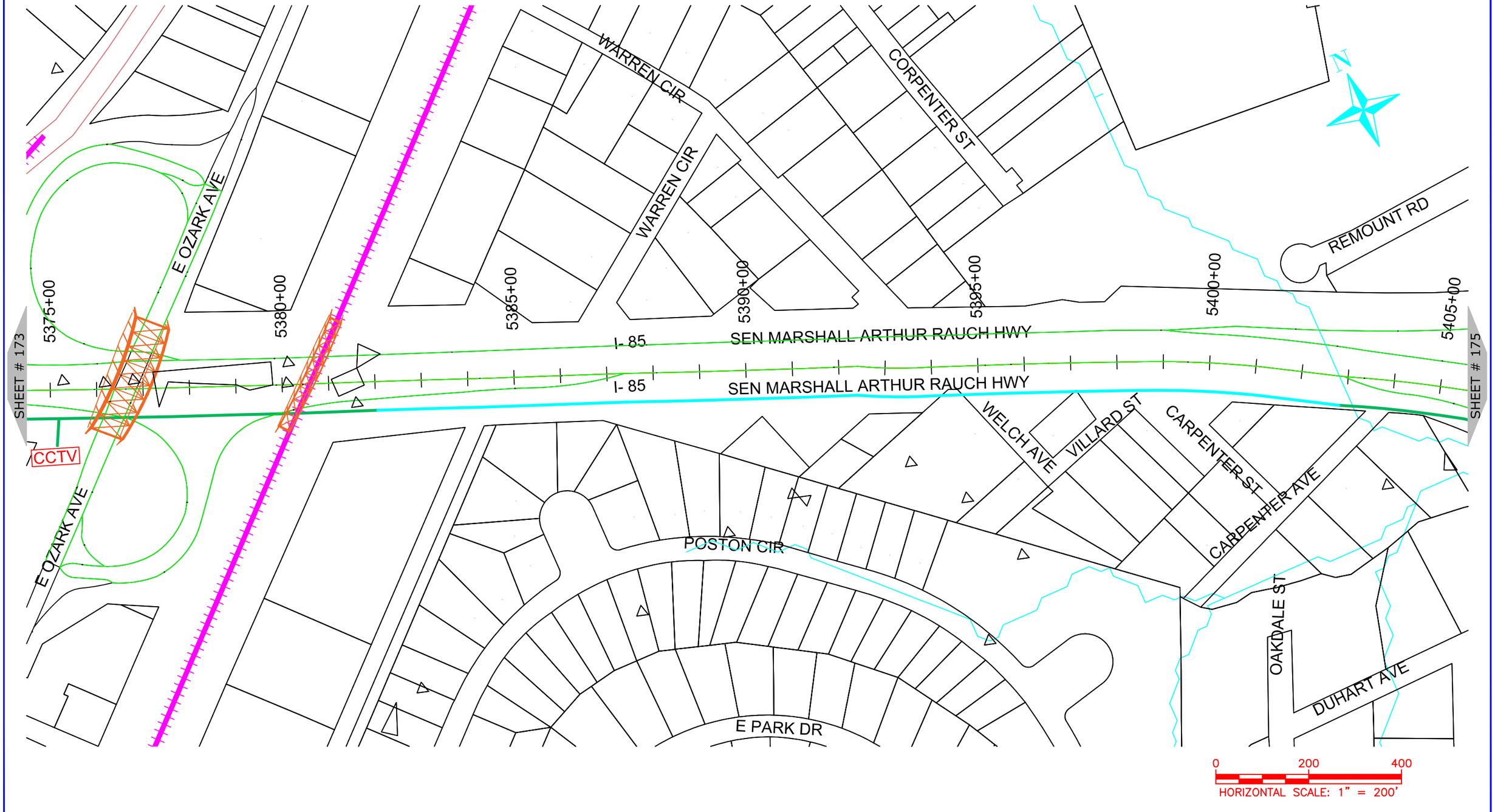
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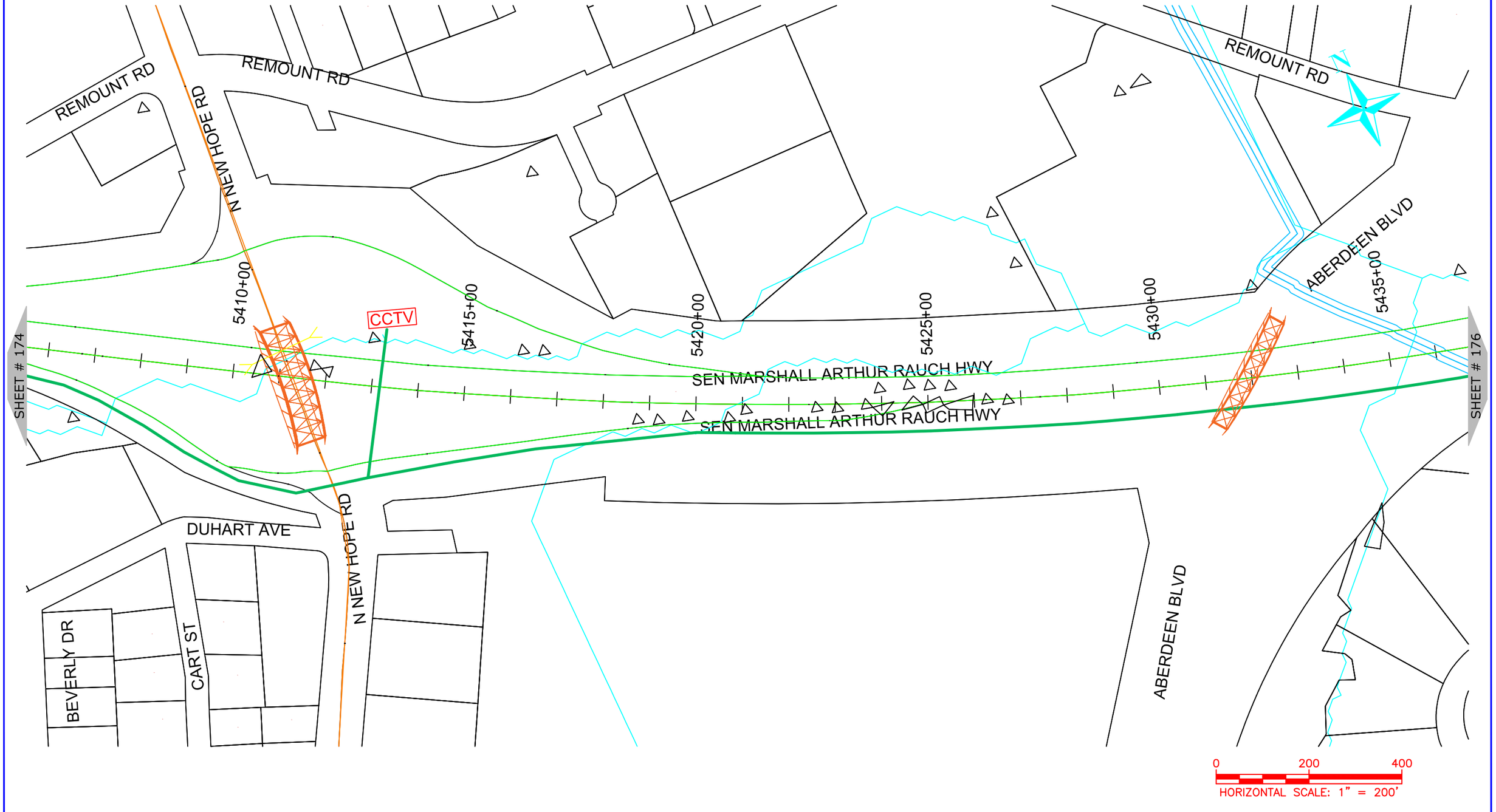
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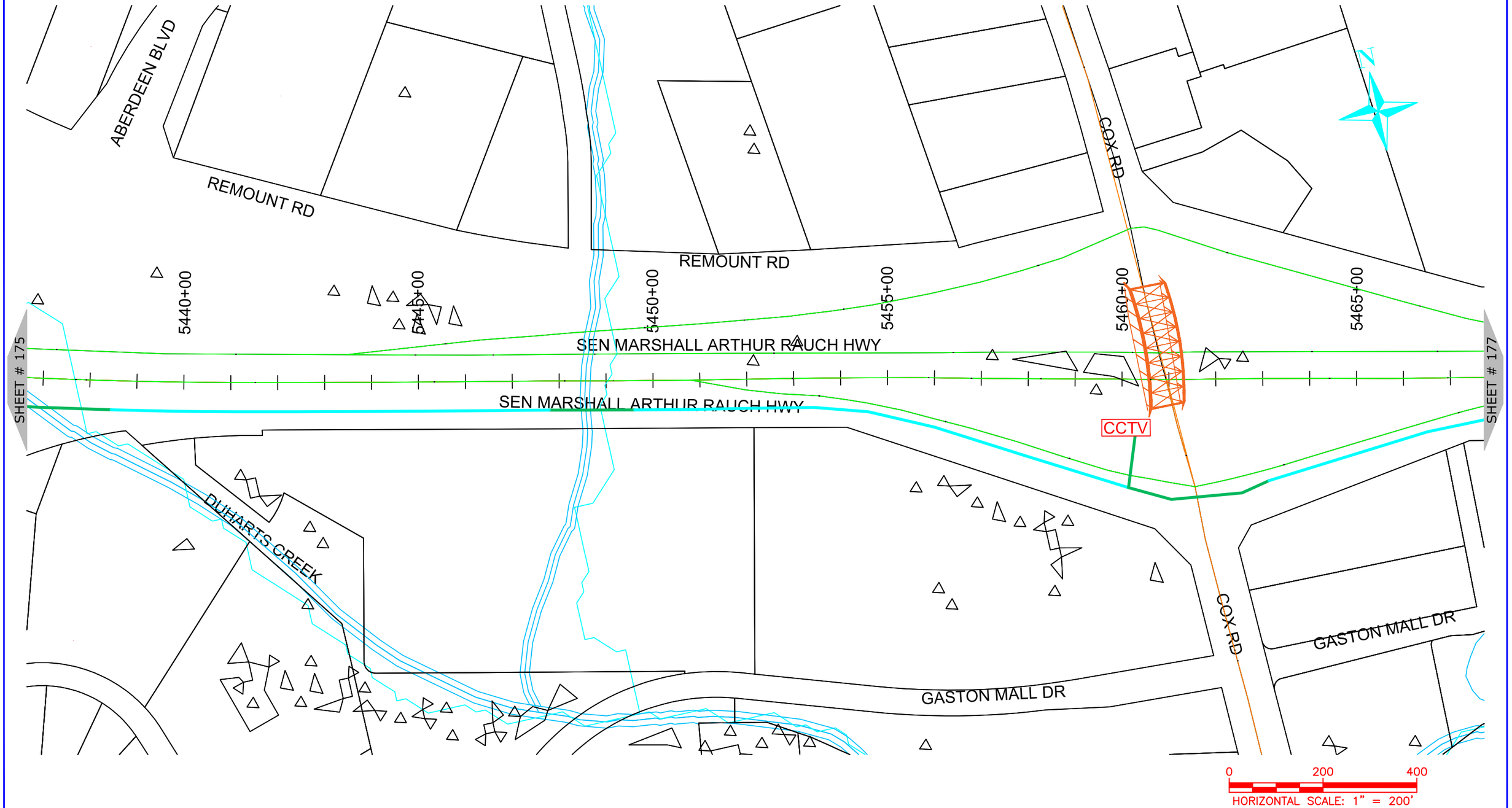
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PROJECT NAME: US-74

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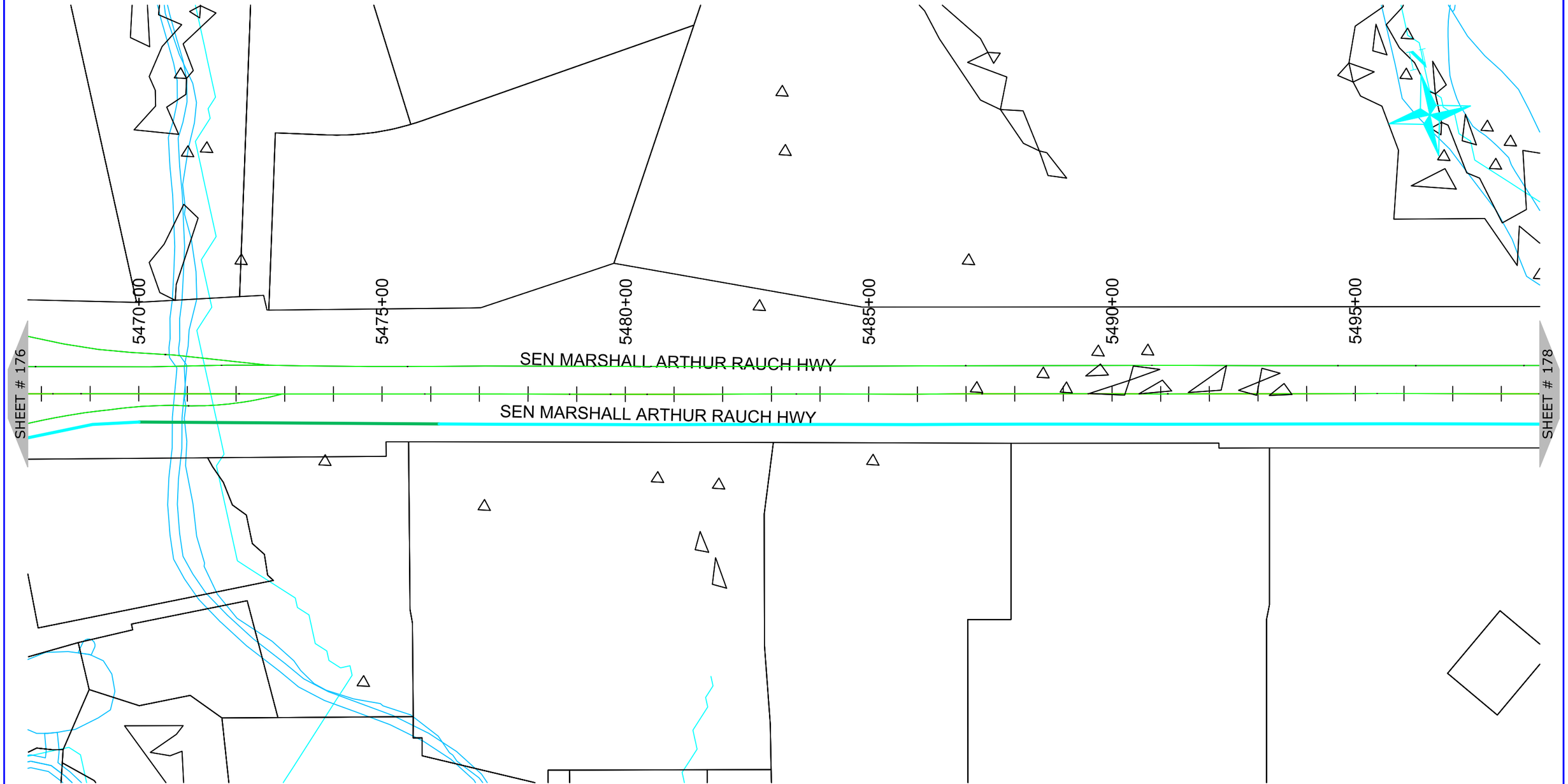
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PROJECT NAME: US-74

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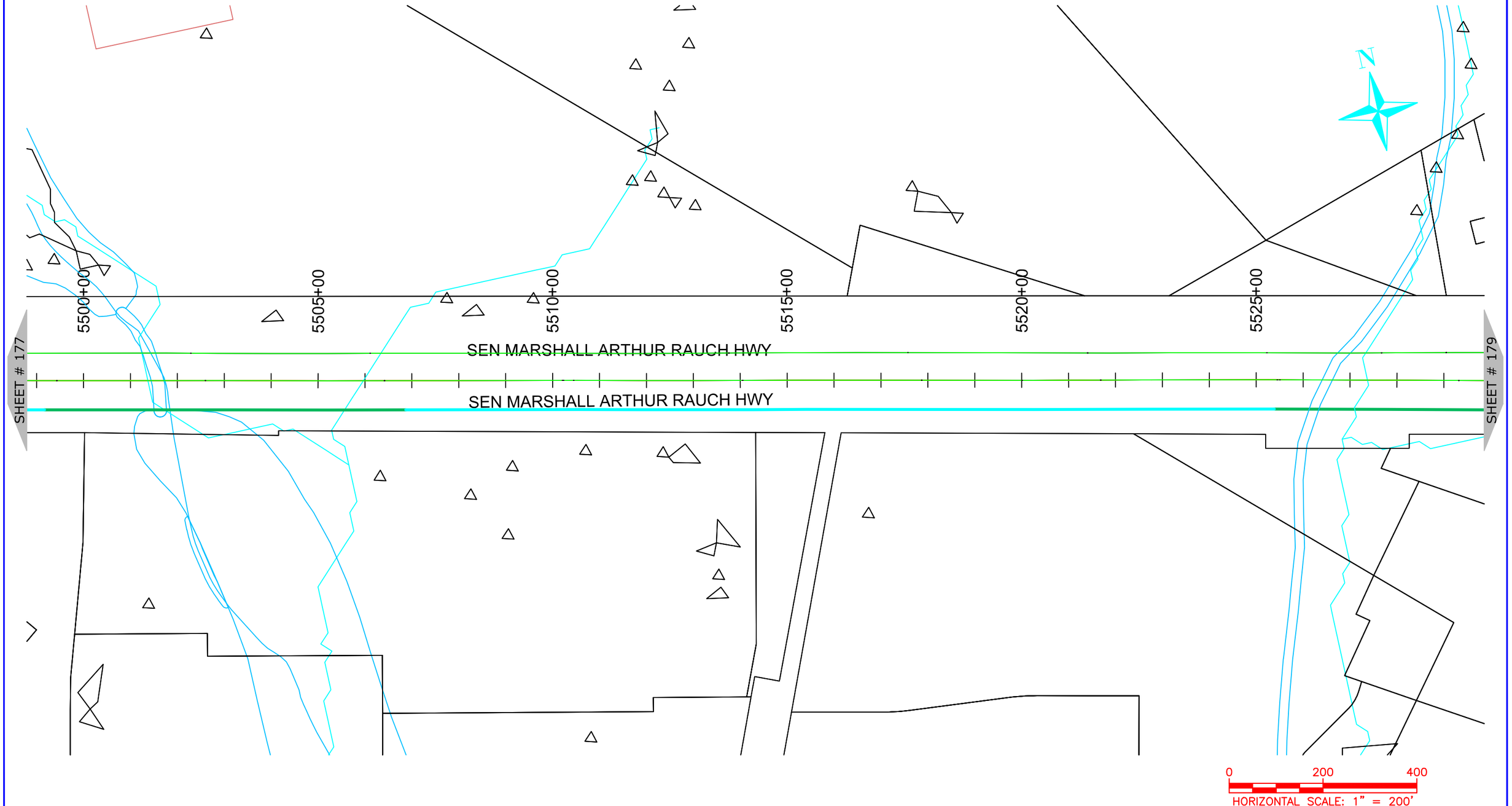
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PROJECT NAME: US-74

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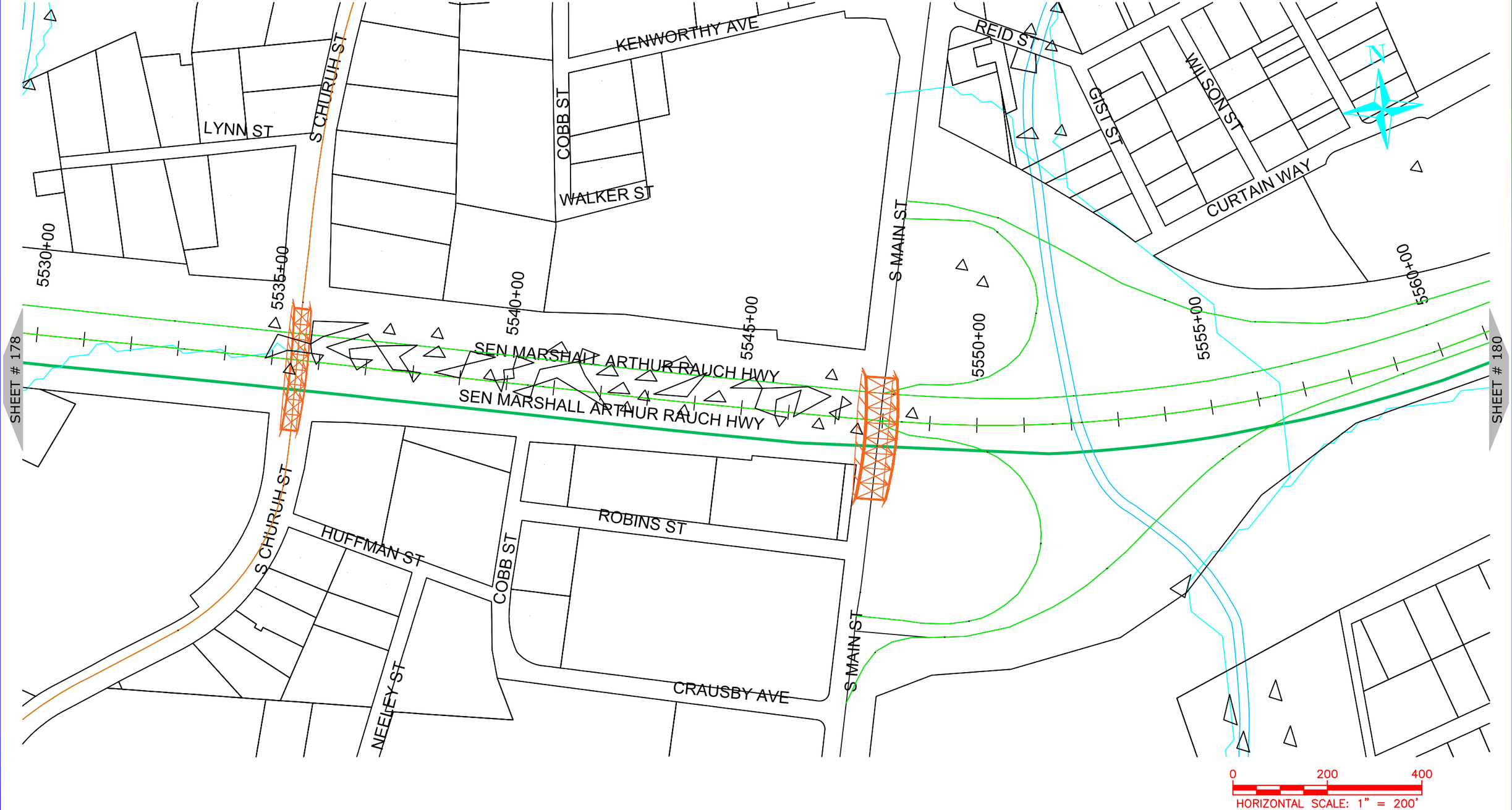
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PROJECT NAME: US-74

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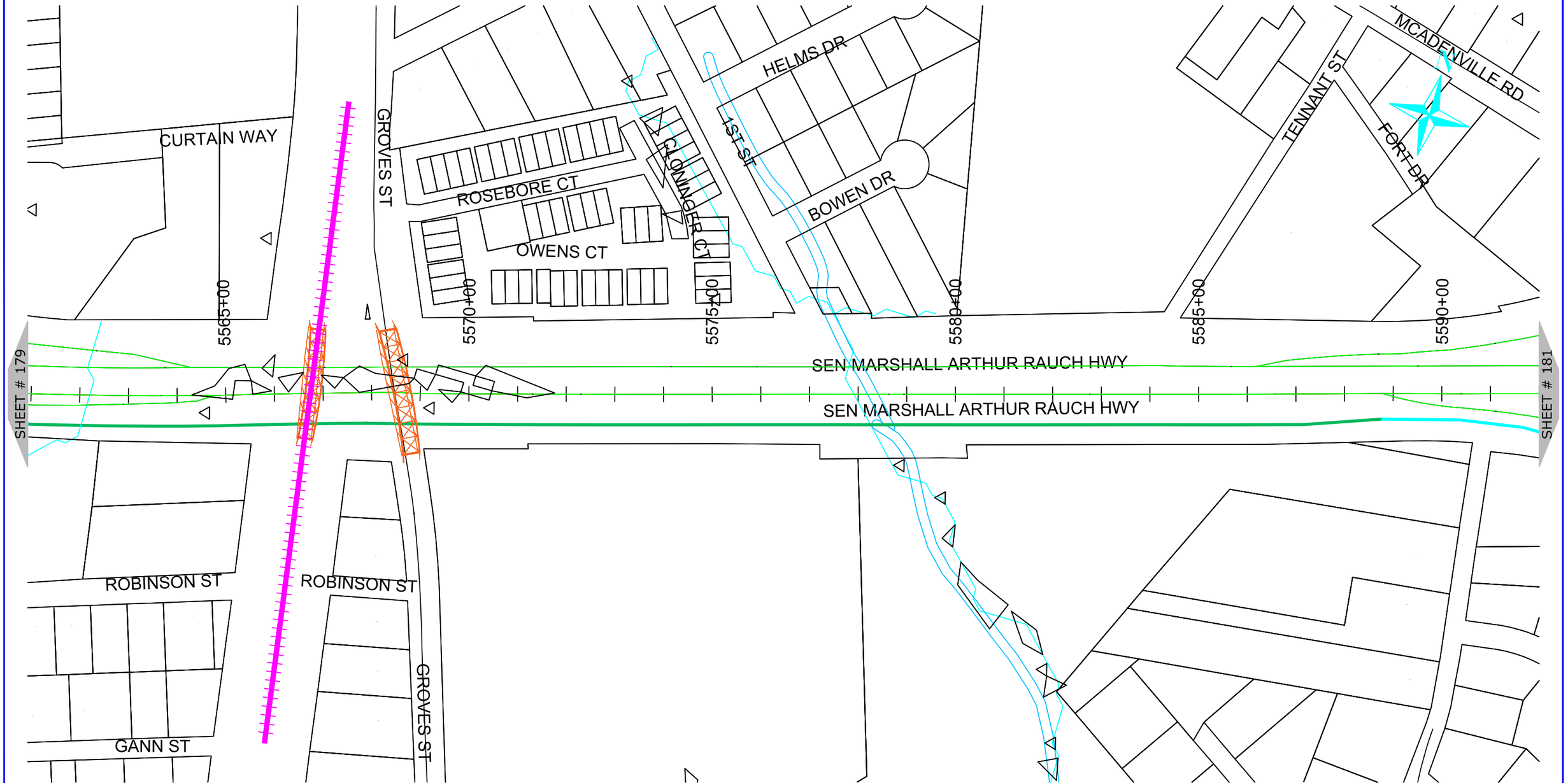
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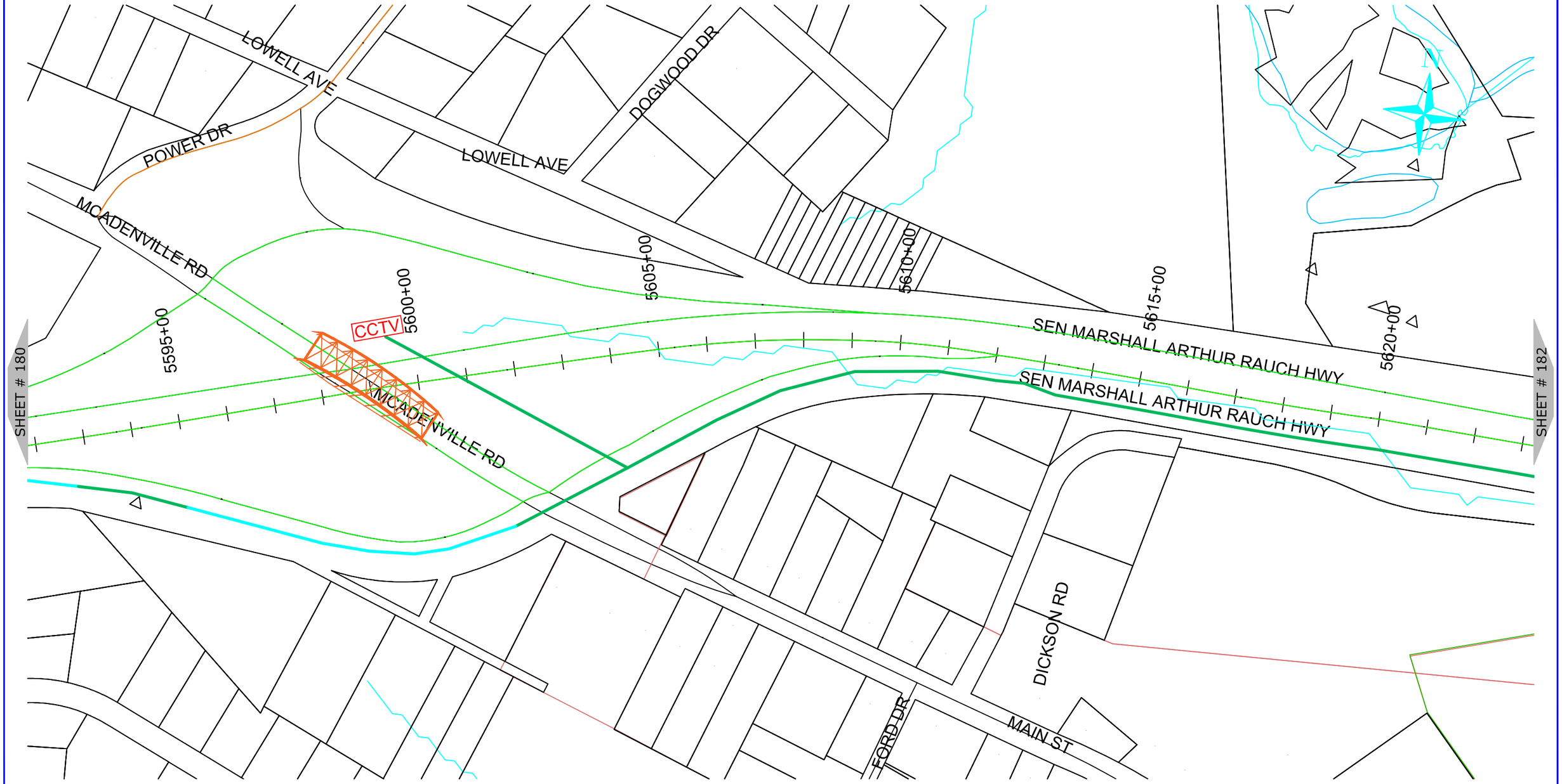
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PROJECT NAME: US-74

SHEET NAME: 180

SHEET: 180

Submitted 12/16/2021



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3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
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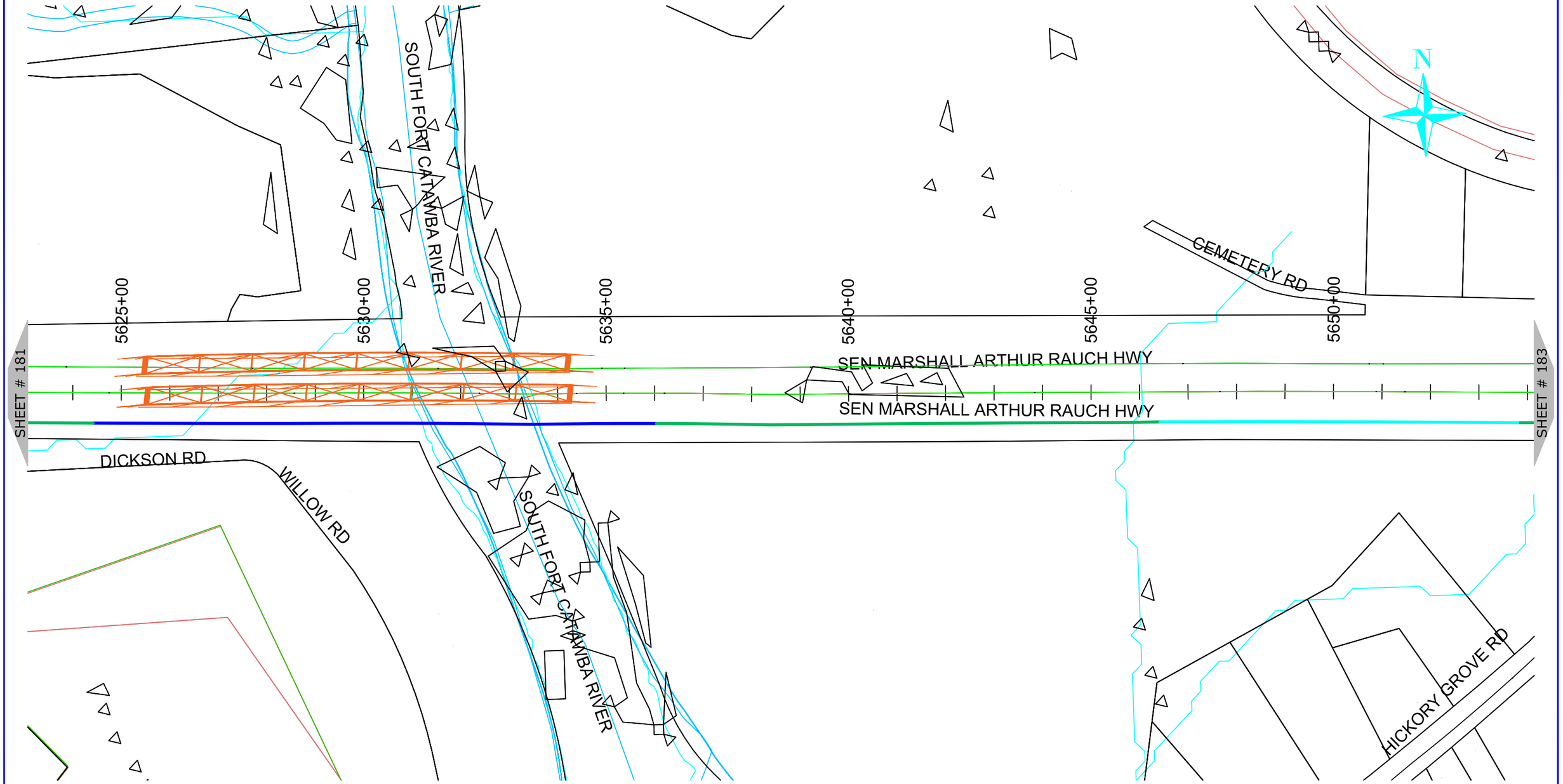
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 181

SHEET: 181

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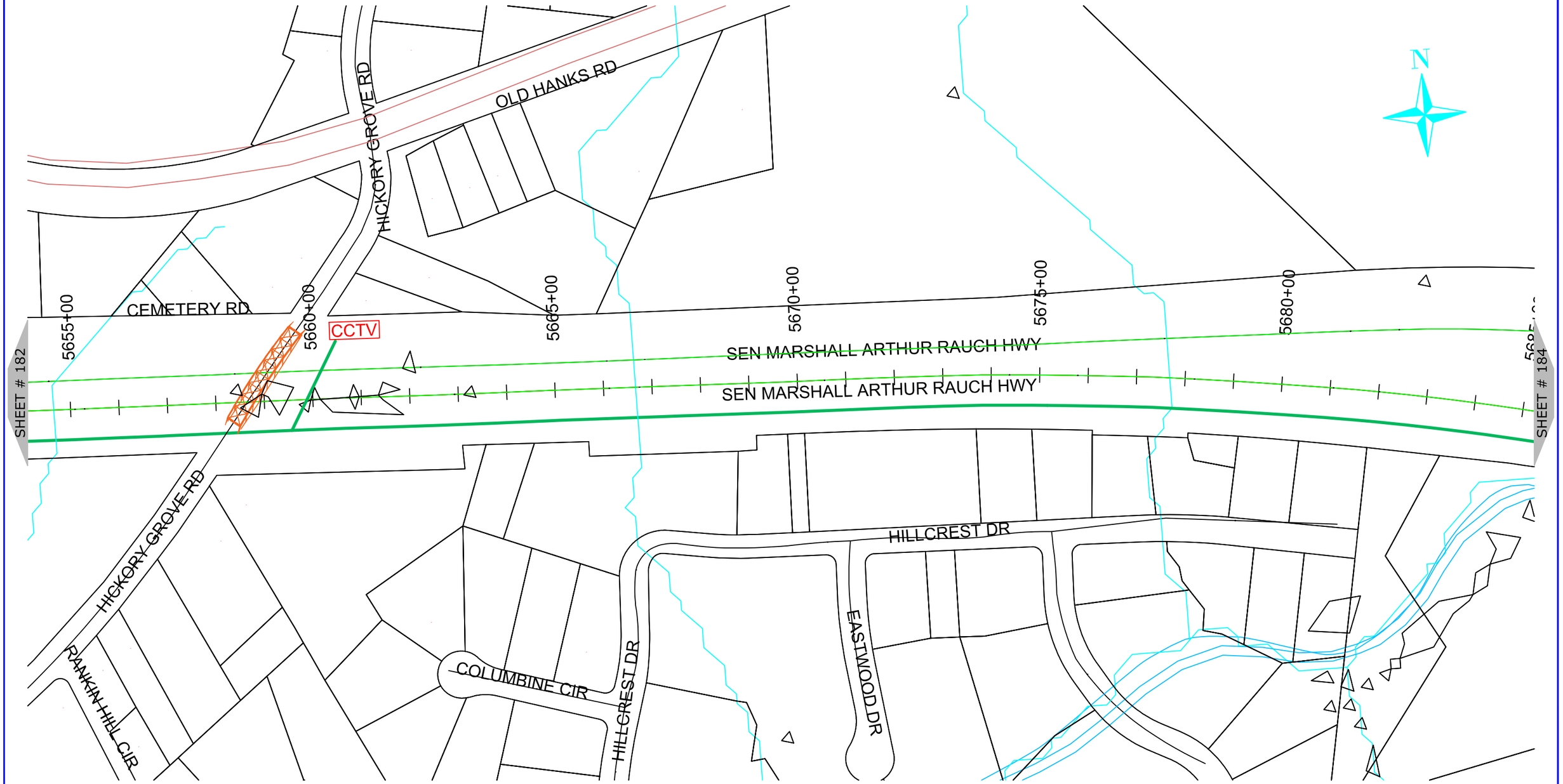
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 182

SHEET: 182

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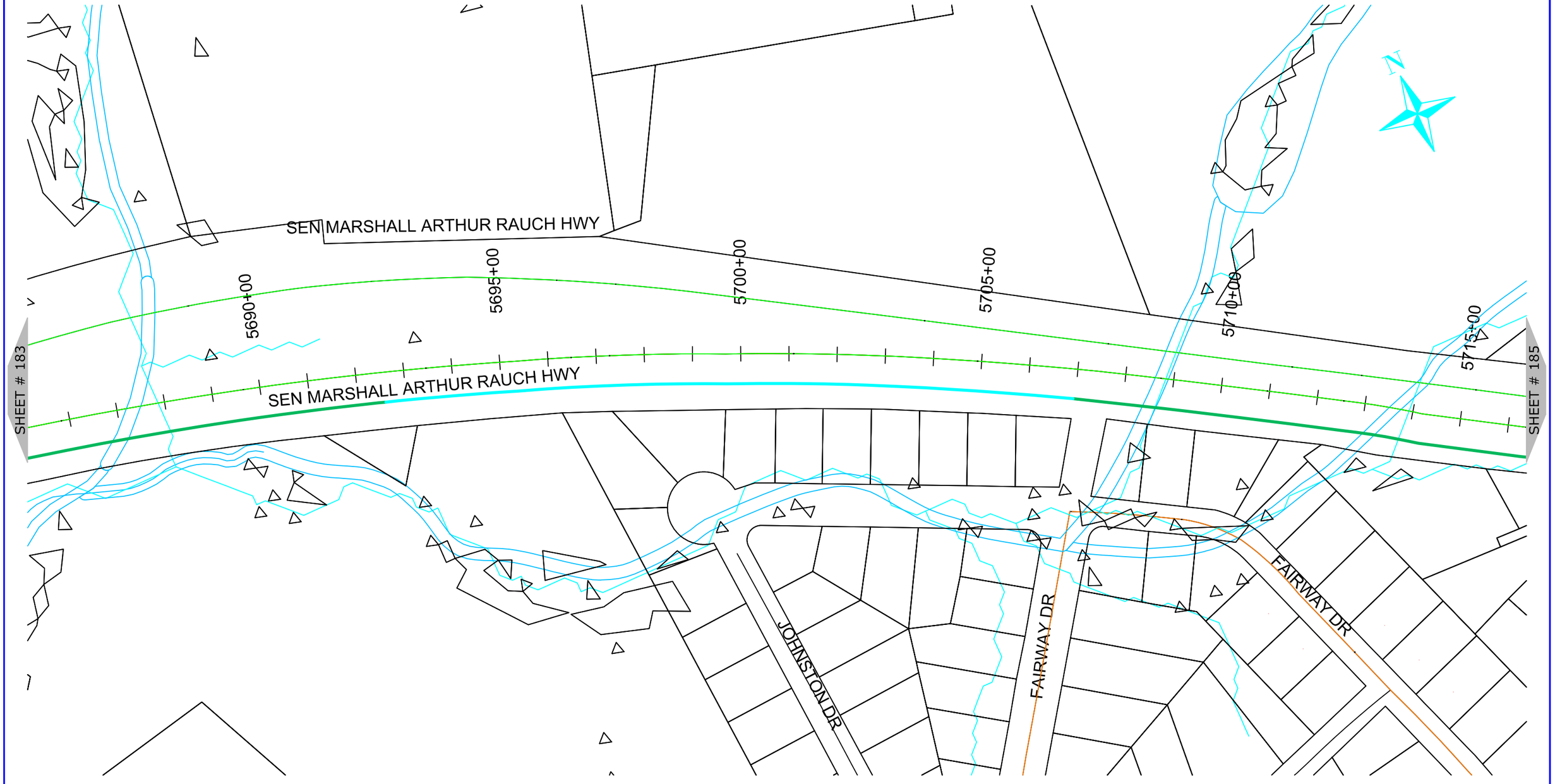
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 183

SHEET: 183

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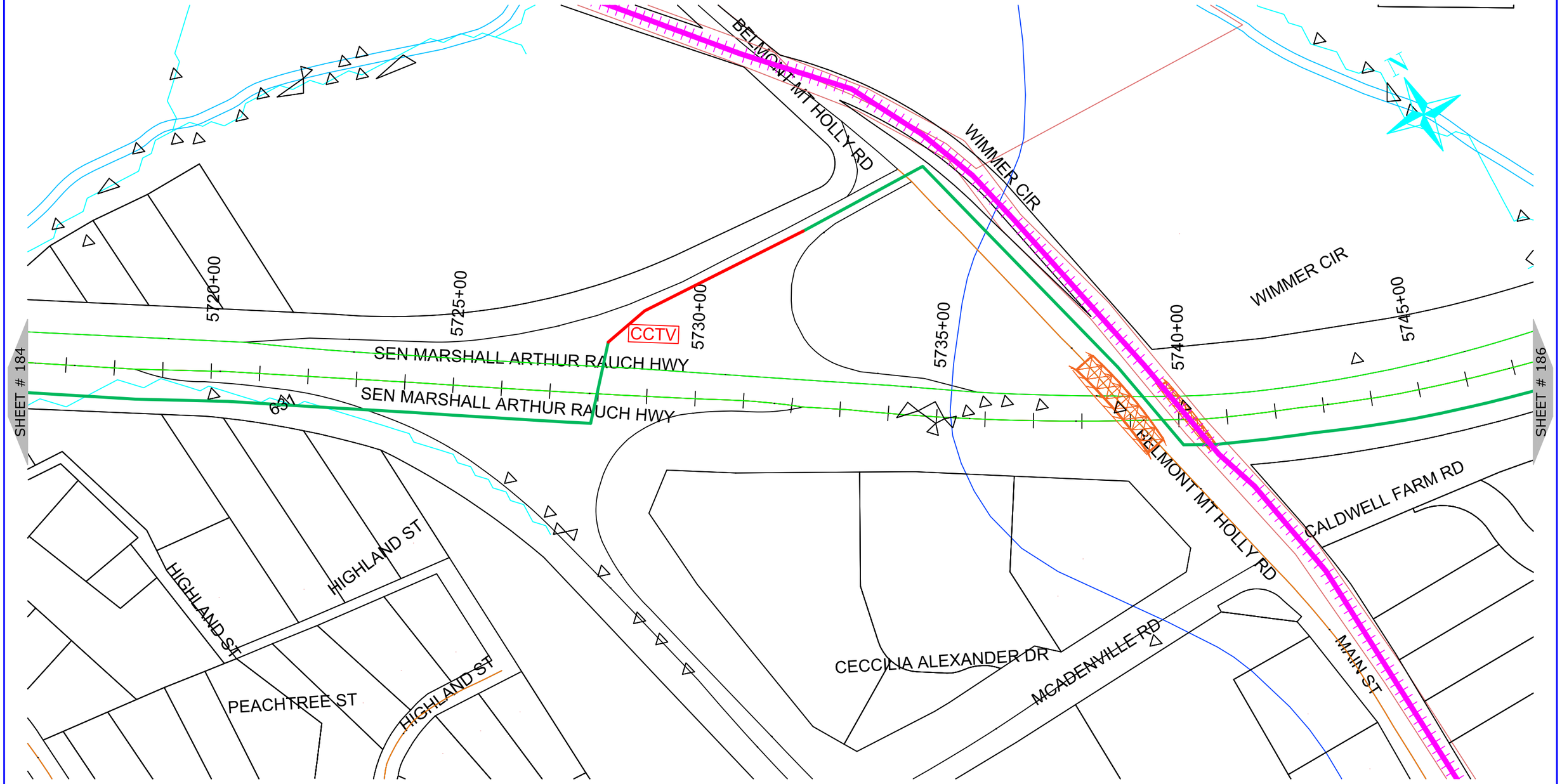
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 184

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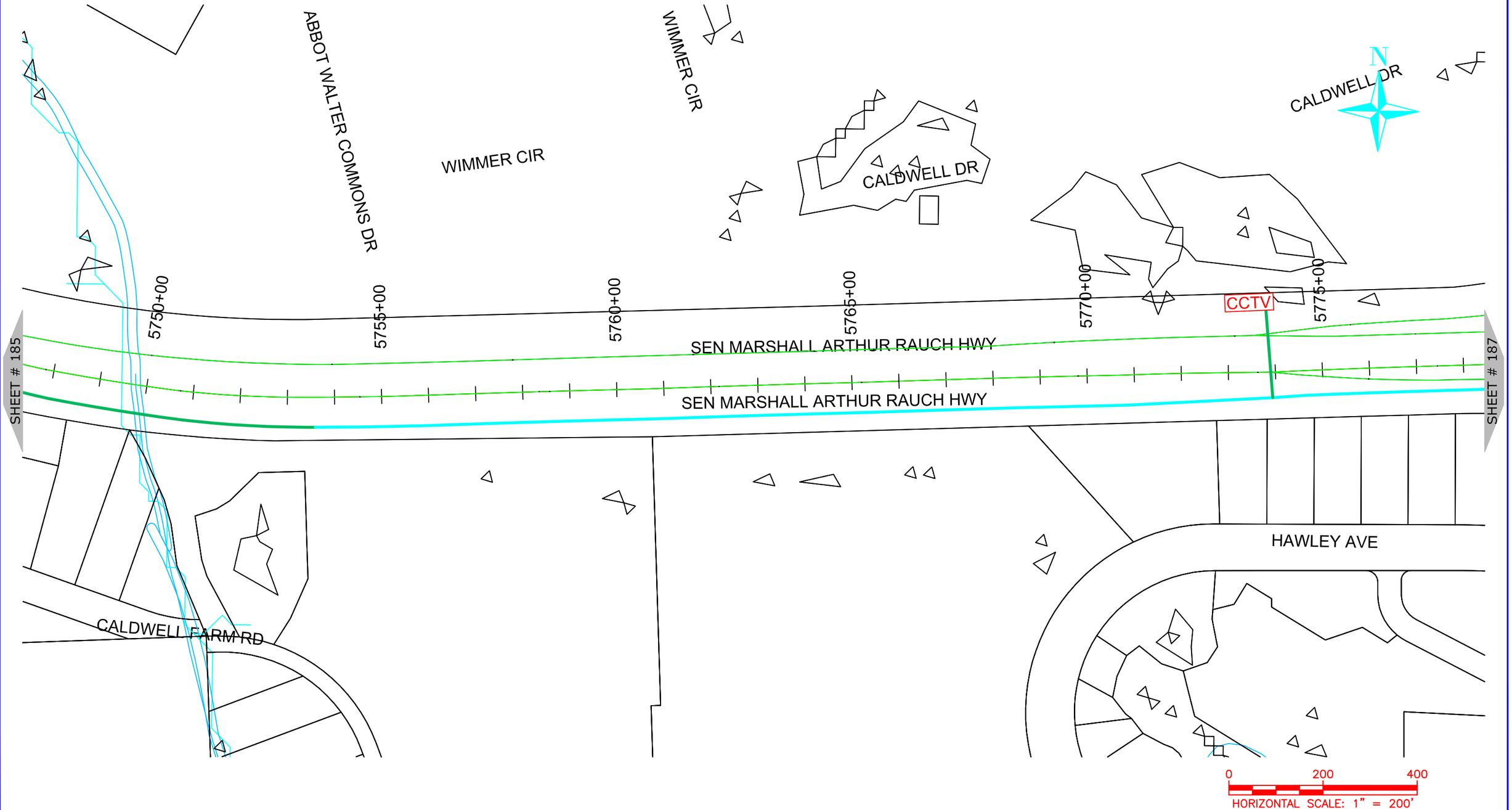
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 185

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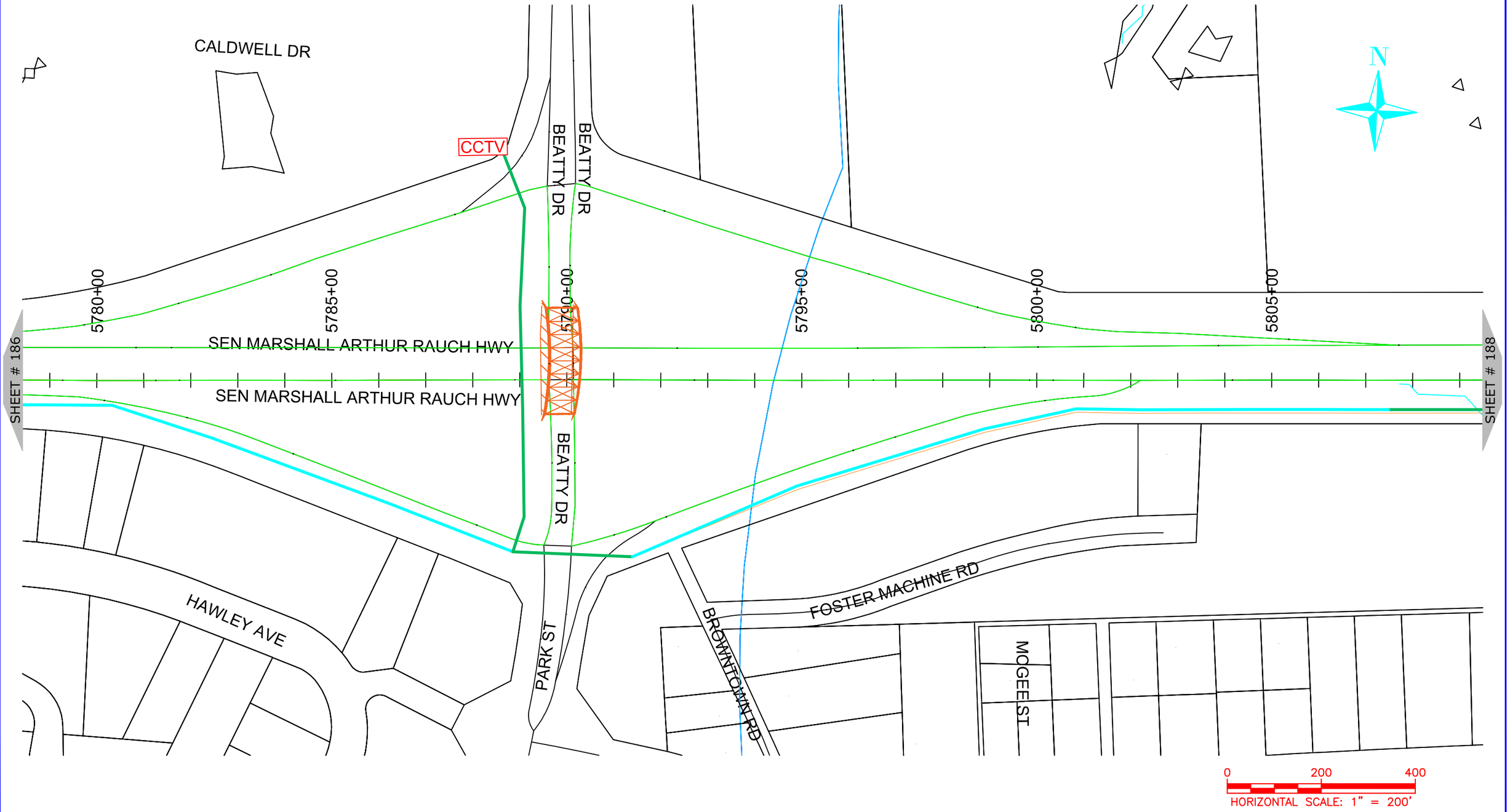
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PROJECT NAME: US-74

SHEET NAME: 186

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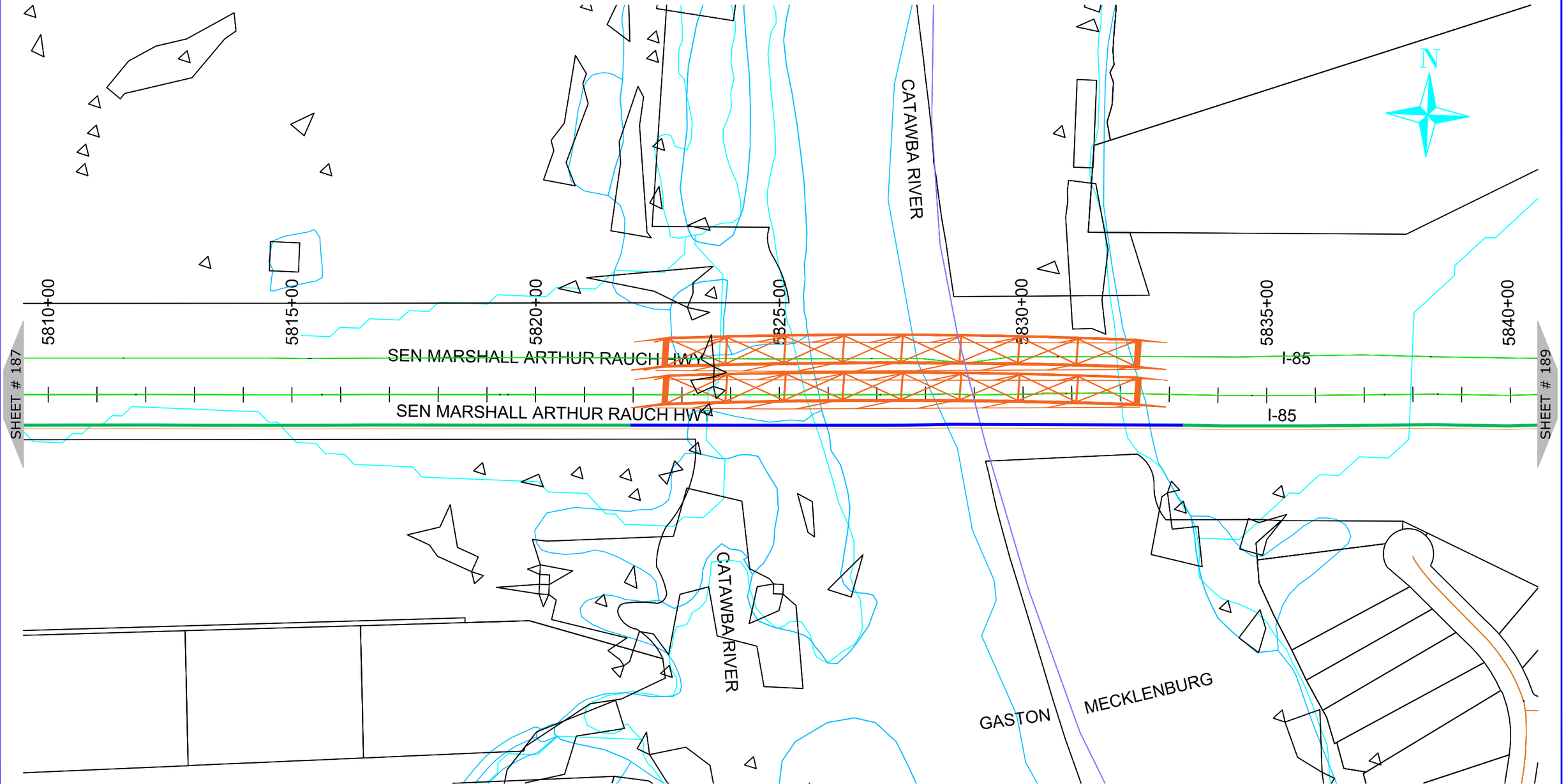
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 187

SHEET: 187

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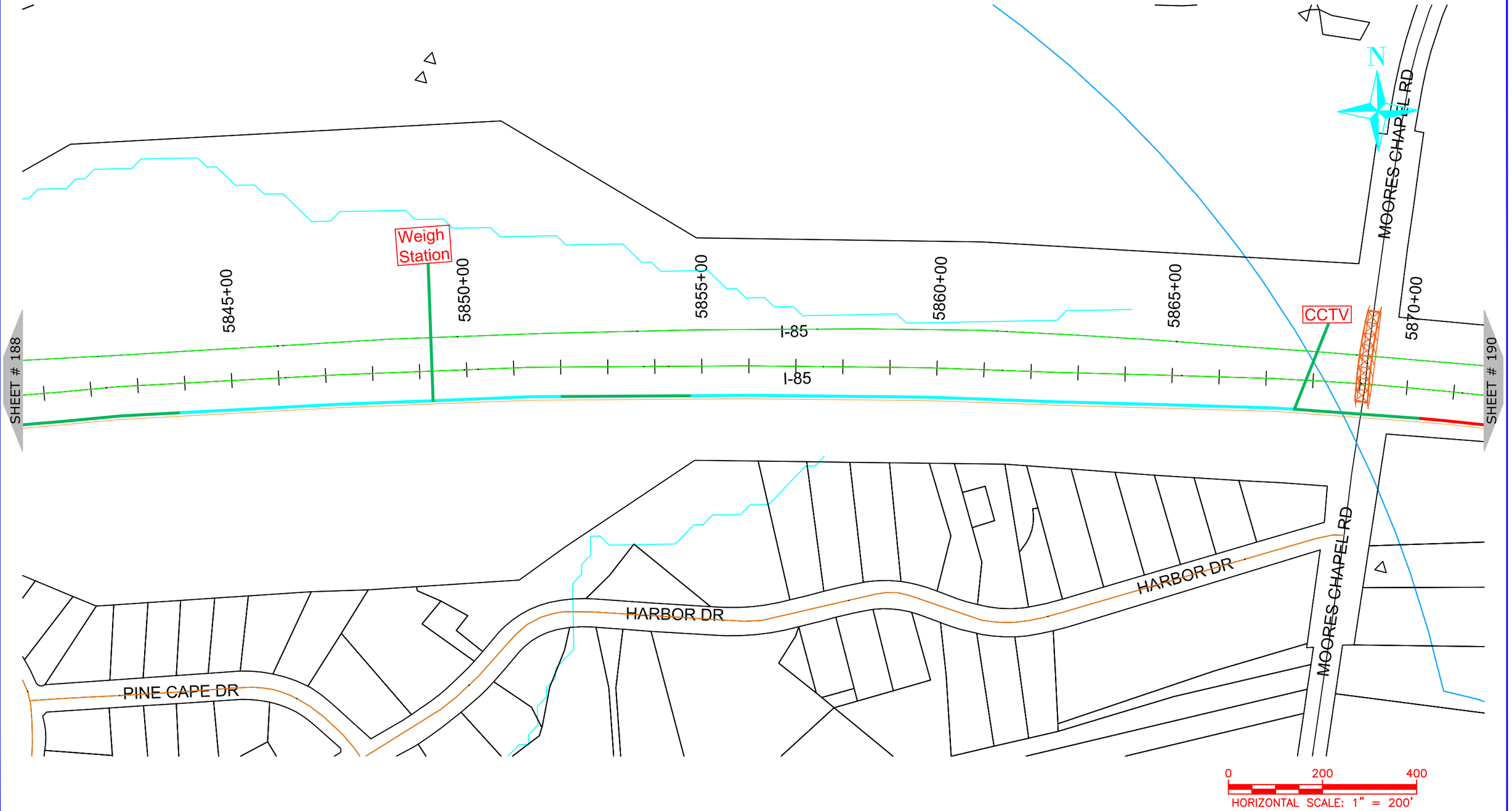
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 188

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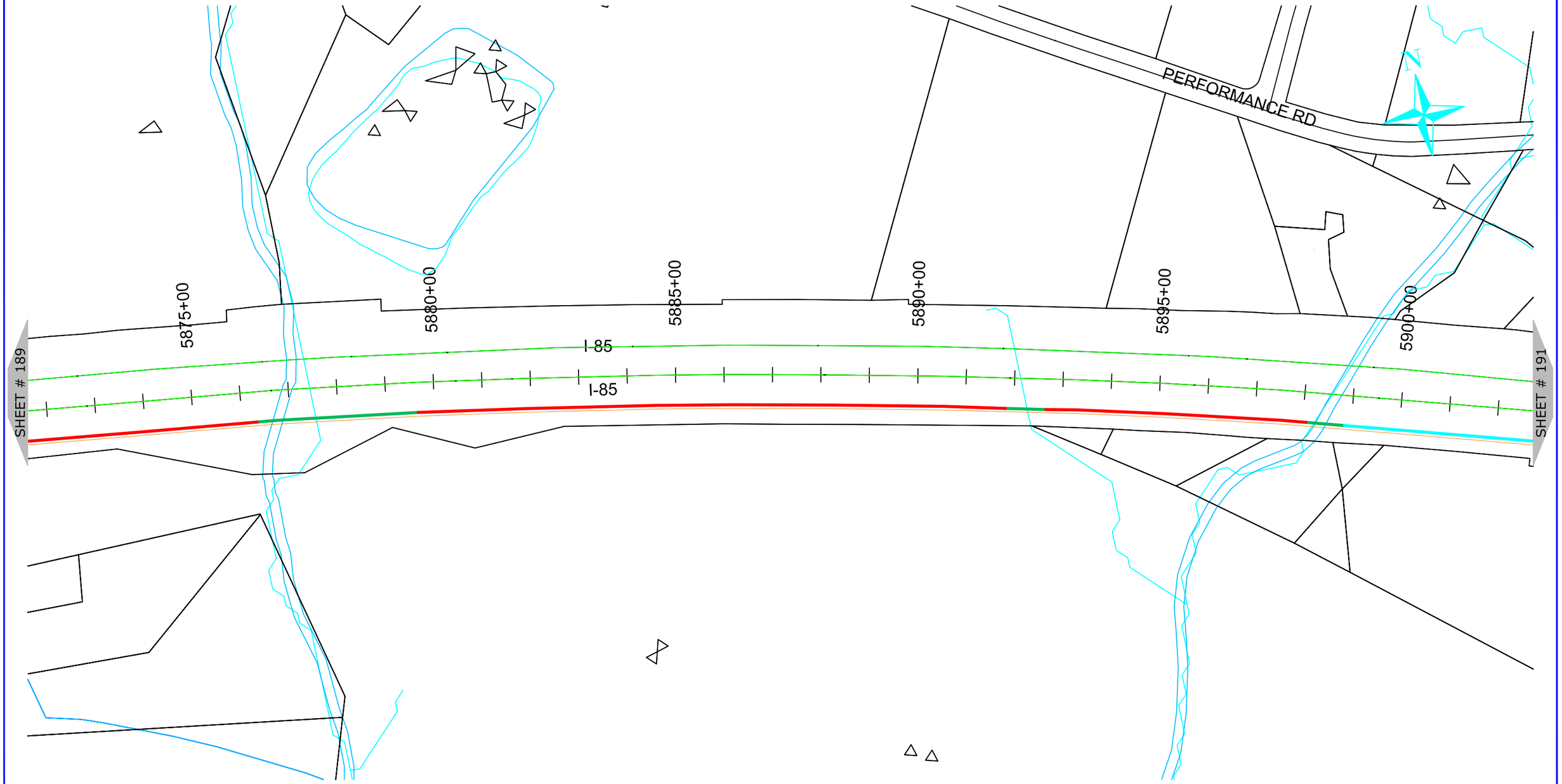
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 189

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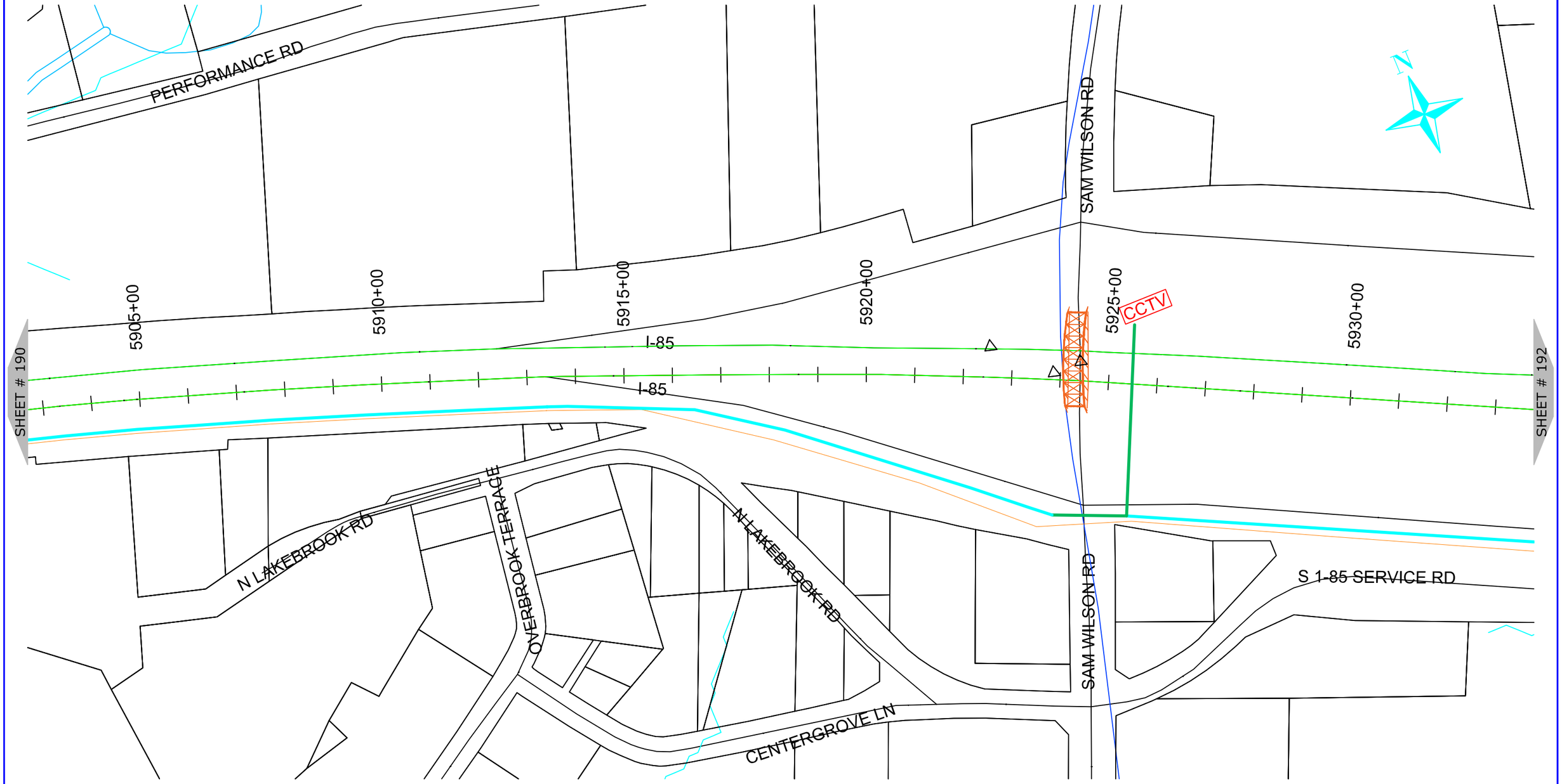
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PROJECT NAME:
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SHEET NAME:
190

SHEET:
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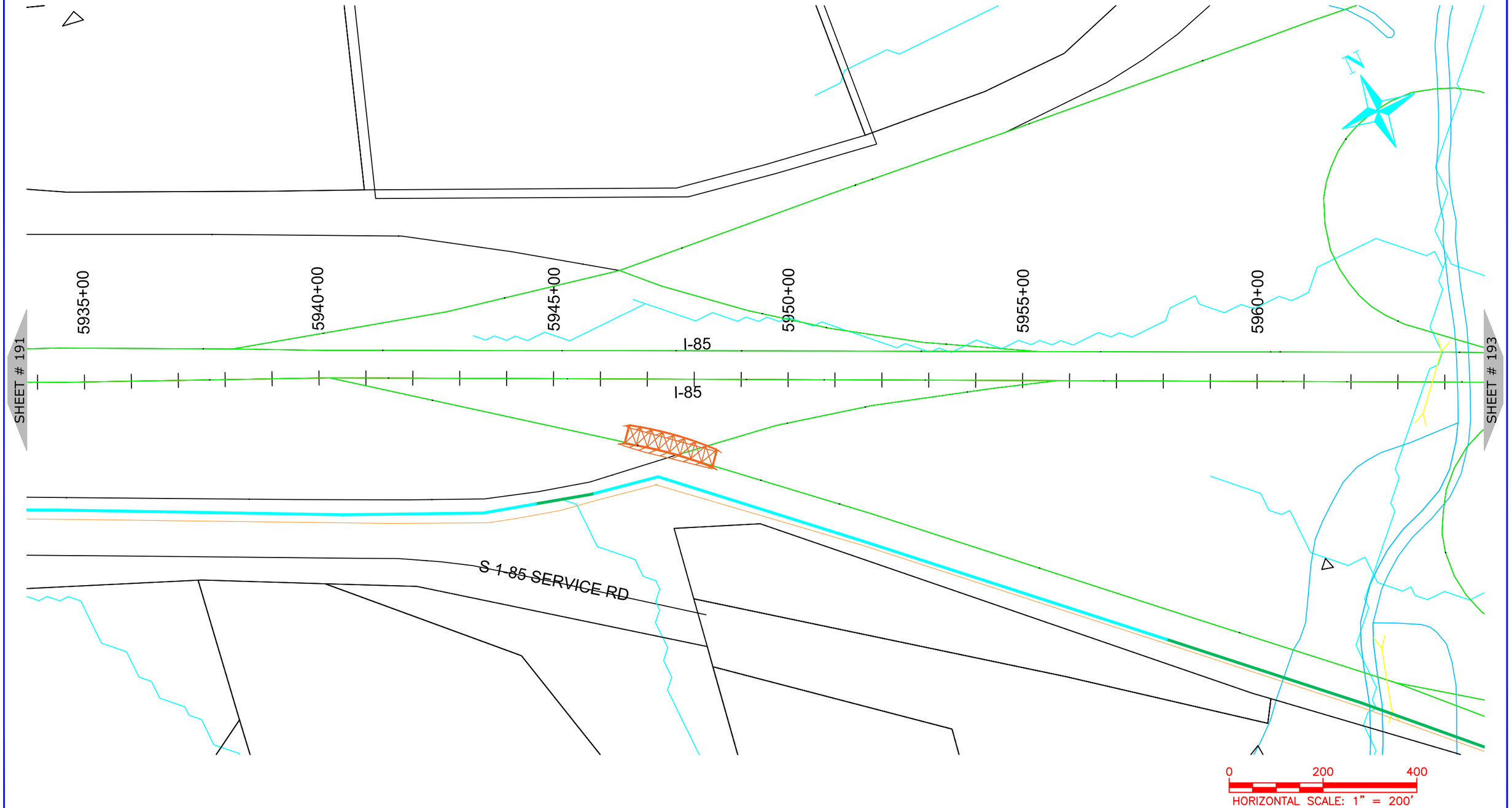
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 191

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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
192

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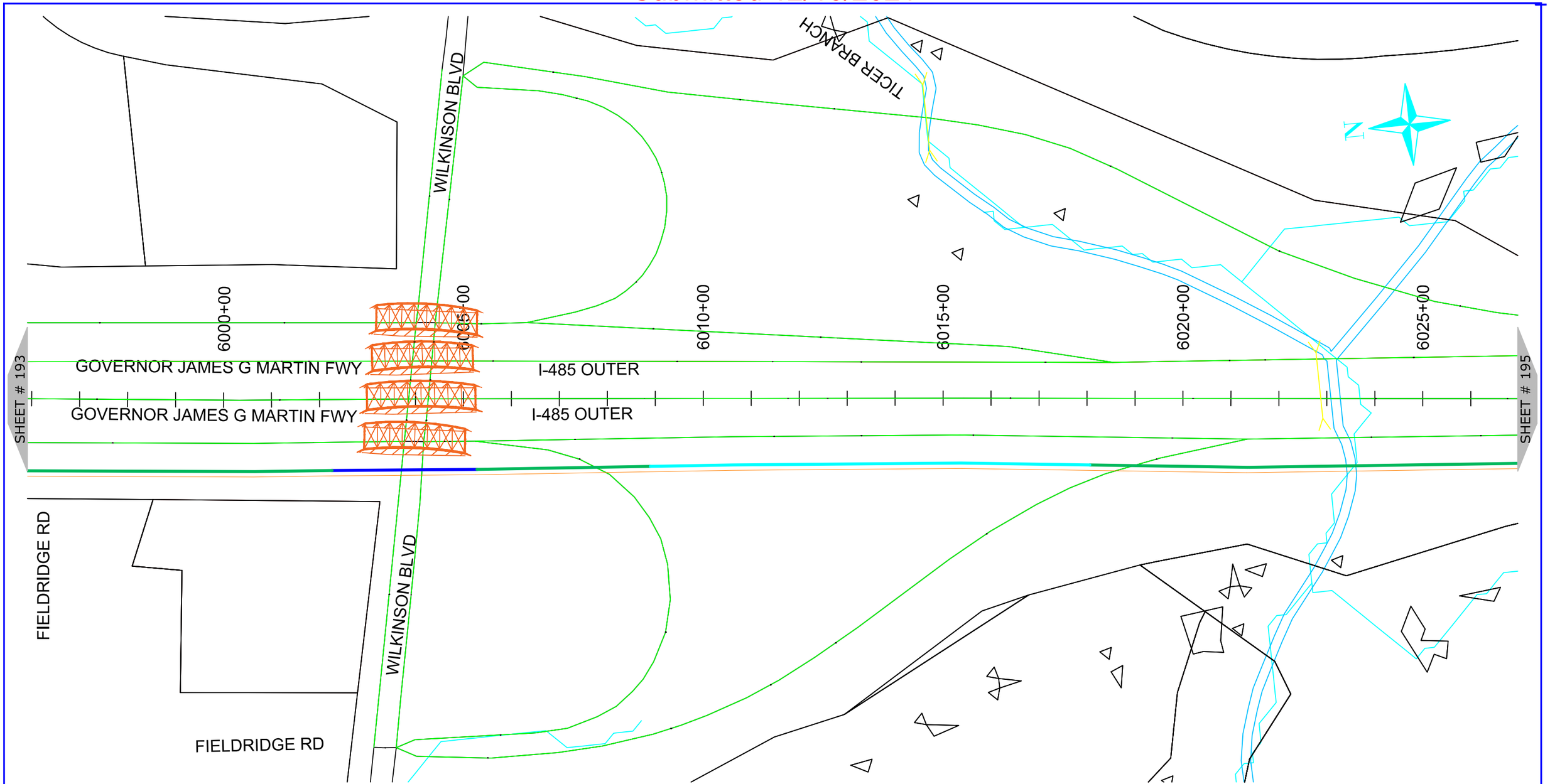
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
193

SHEET:
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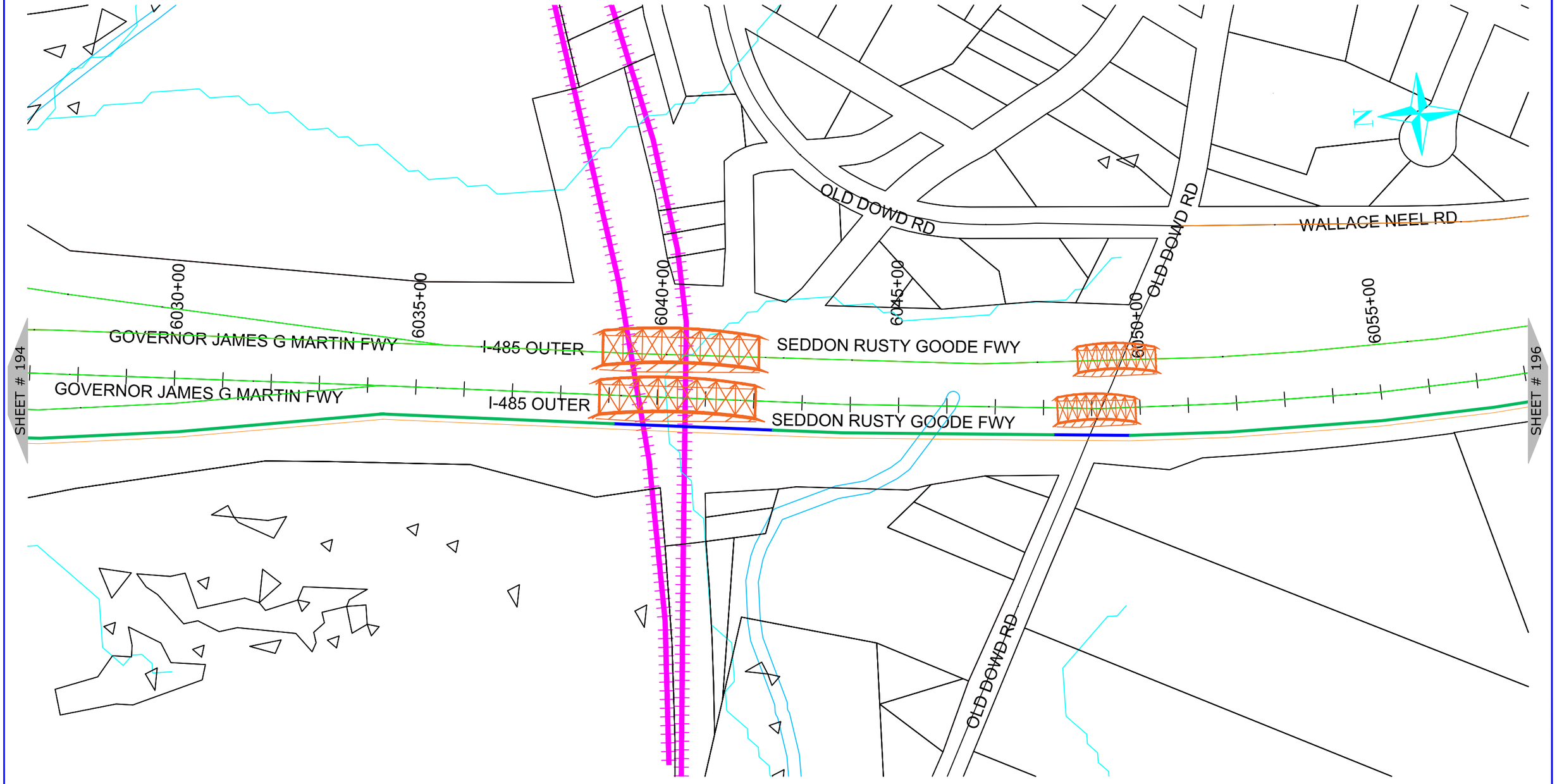
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 194

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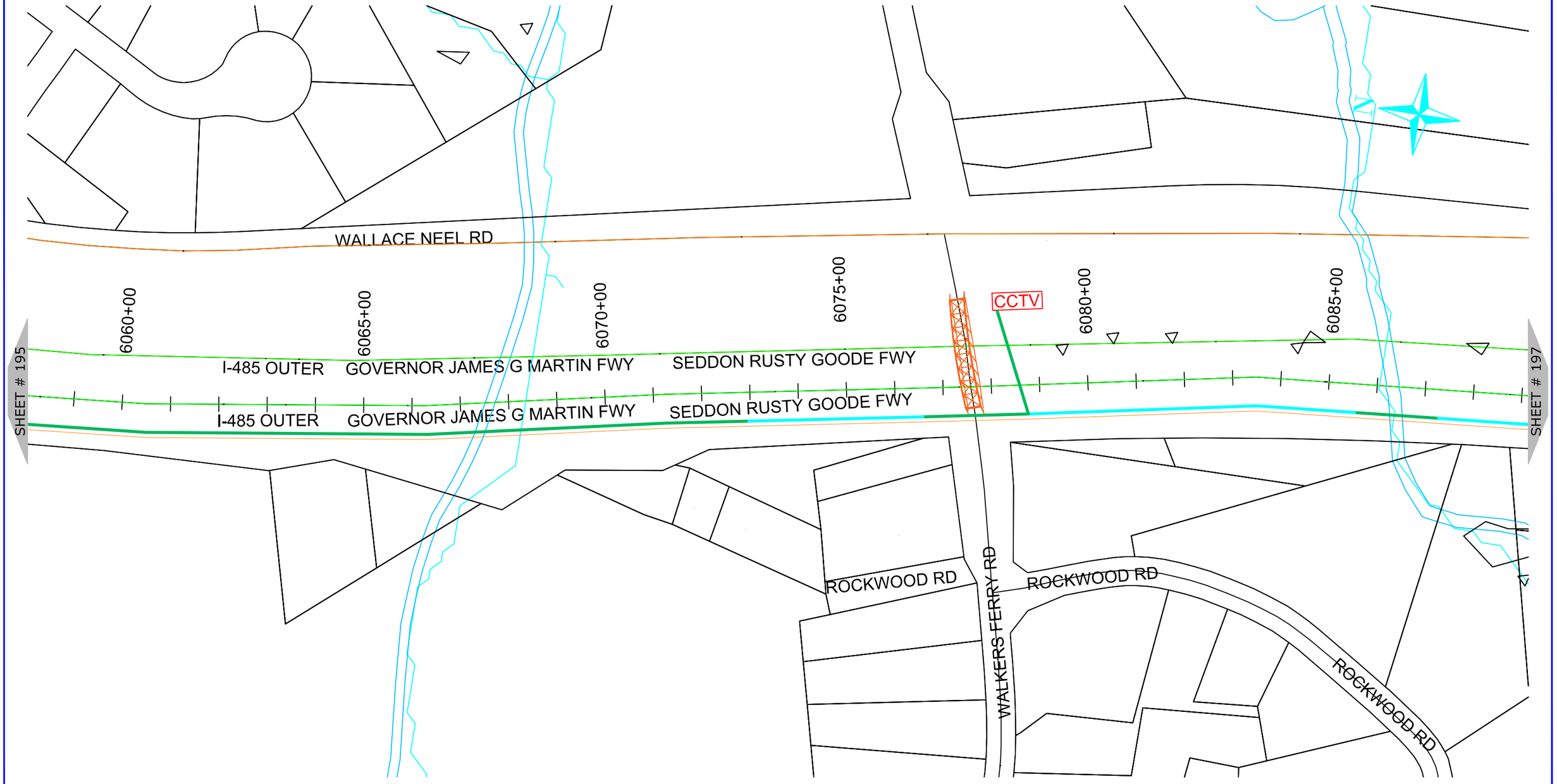
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
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SHEET:
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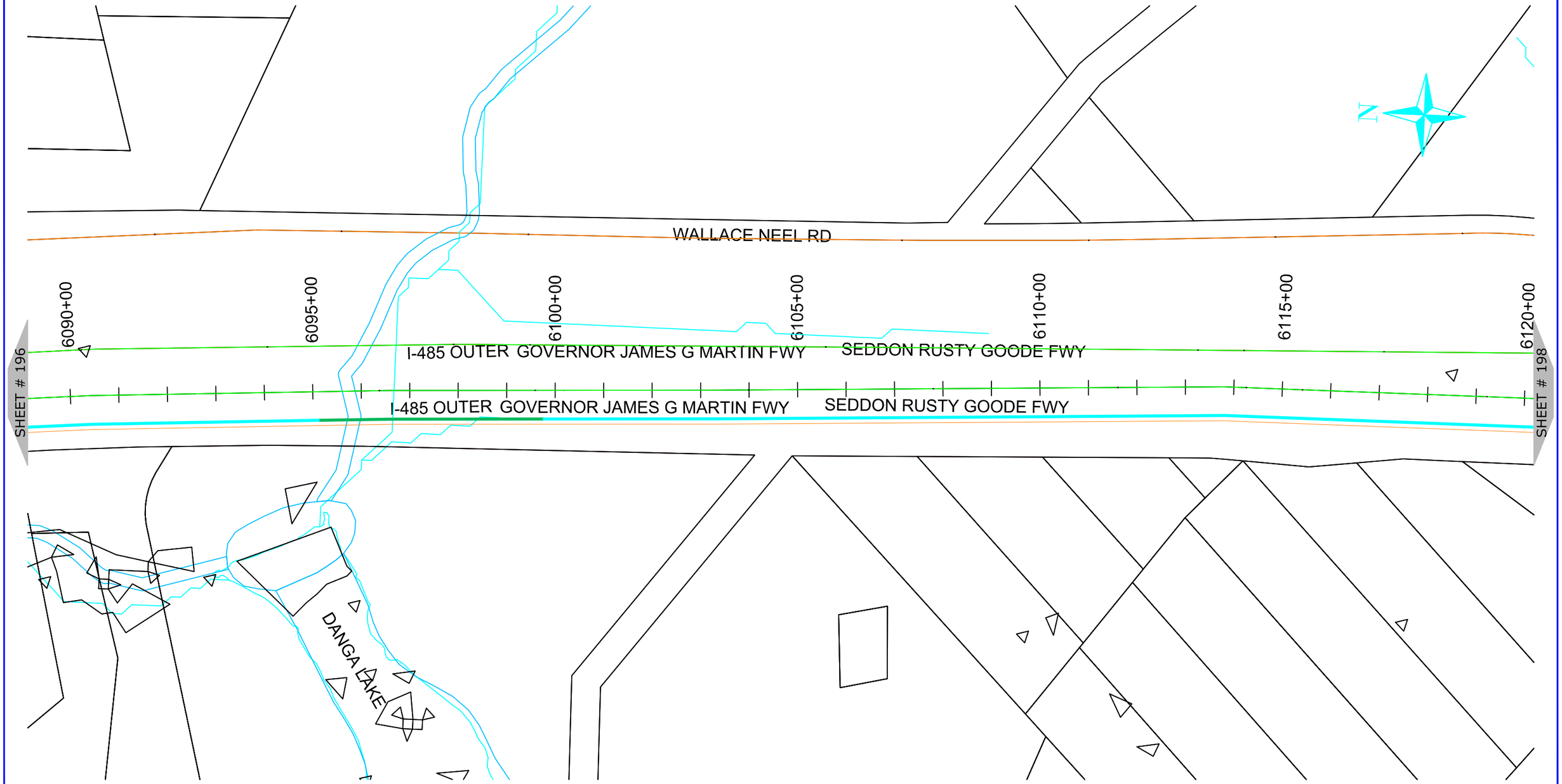
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PROJECT NAME:
US-74

SHEET NAME:
196

SHEET:
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PROJECT NAME: US-74

SHEET NAME: 197

SHEET: 197

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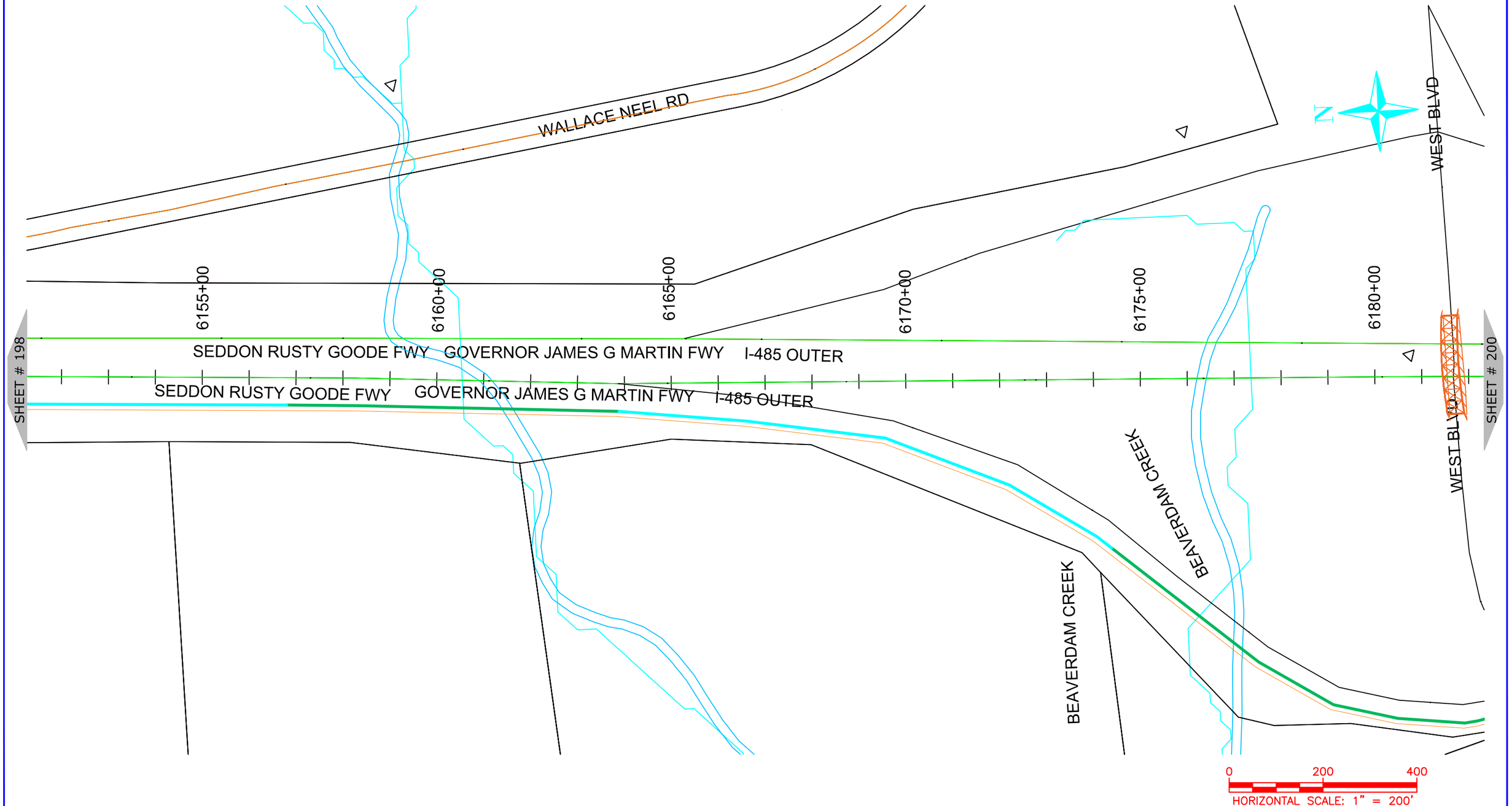
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 198

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PROJECT NAME: US-74

SHEET NAME: 199

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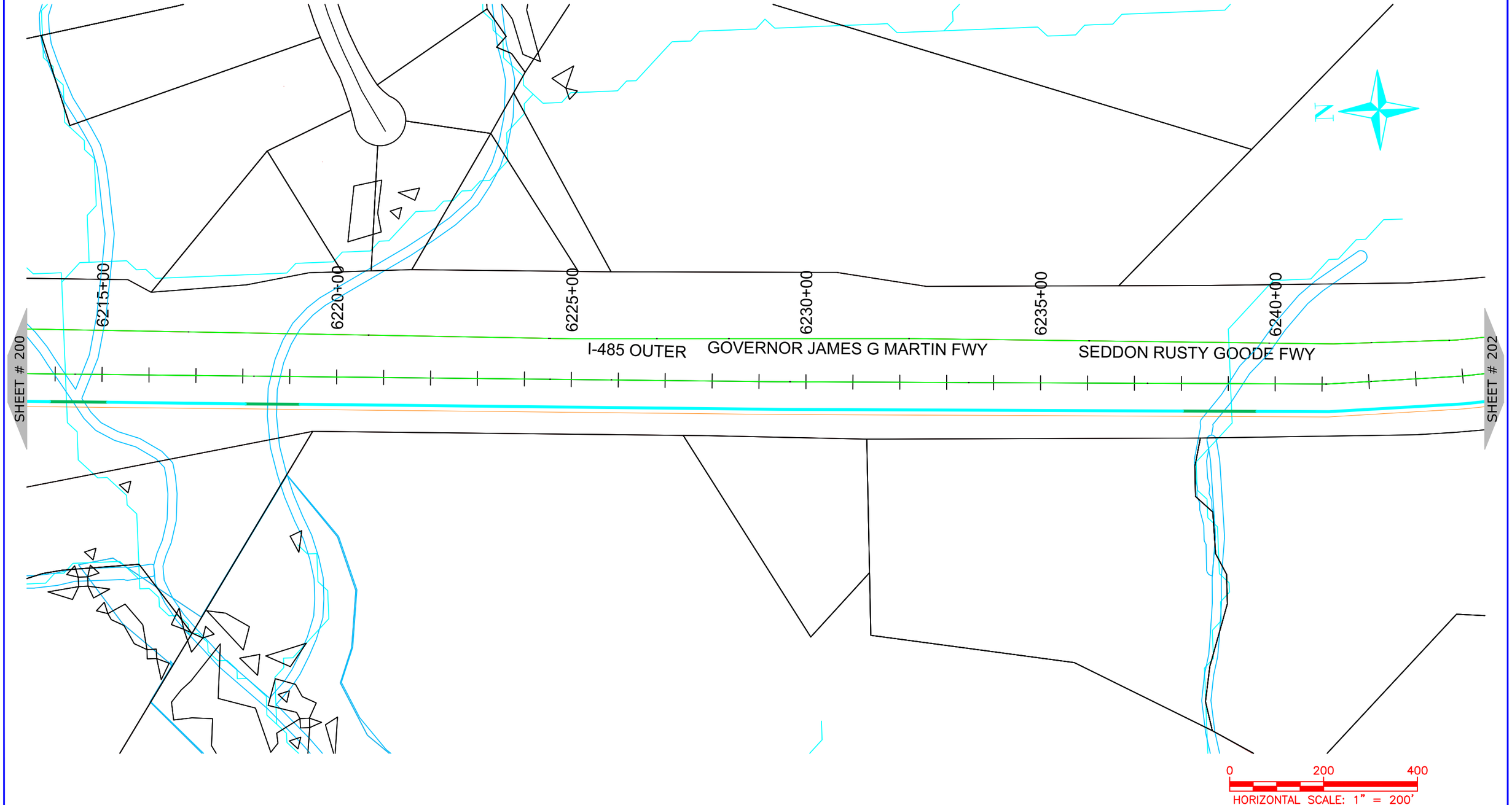
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

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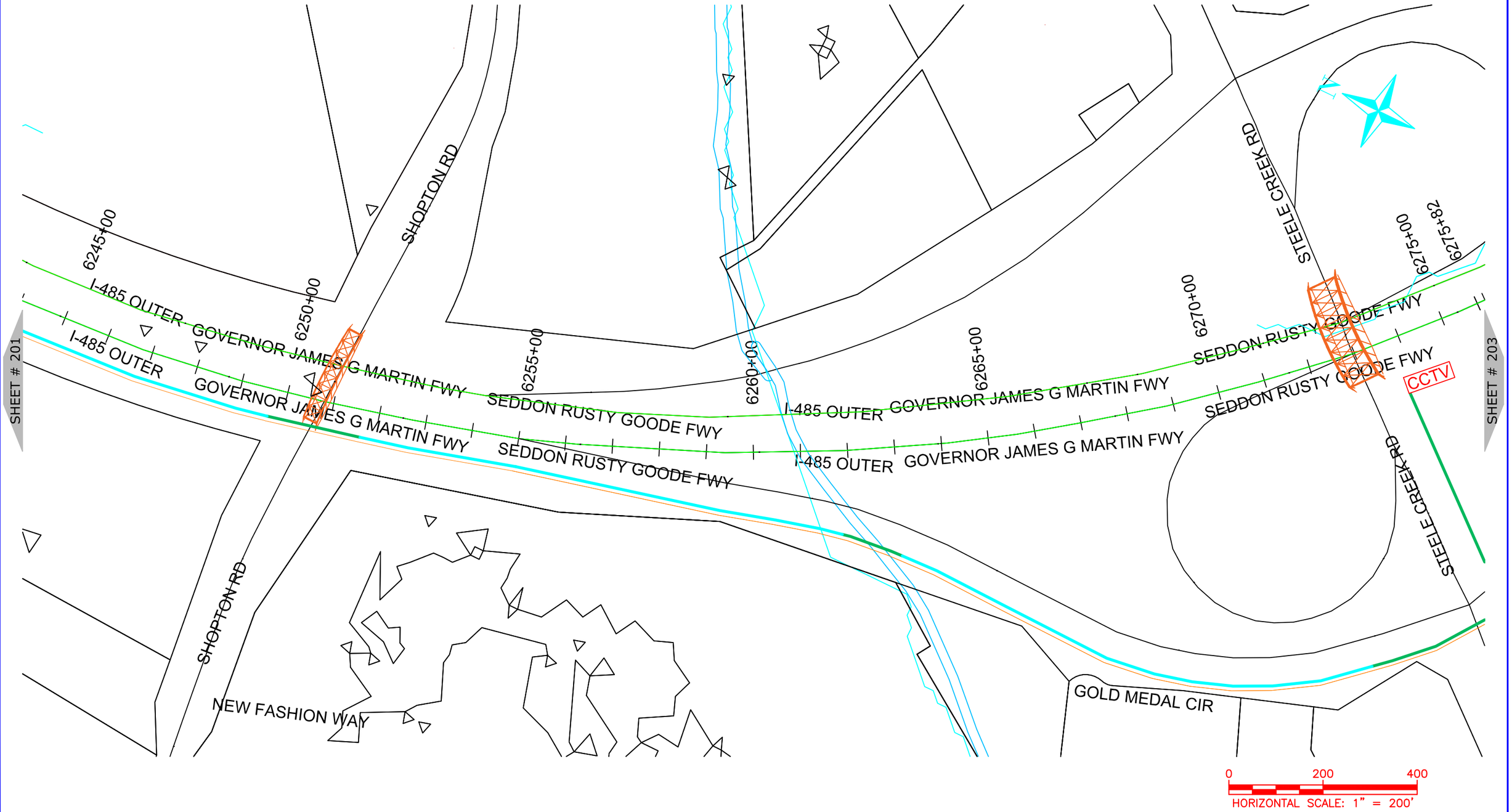
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PROJECT NAME:
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SHEET NAME:
201

SHEET:
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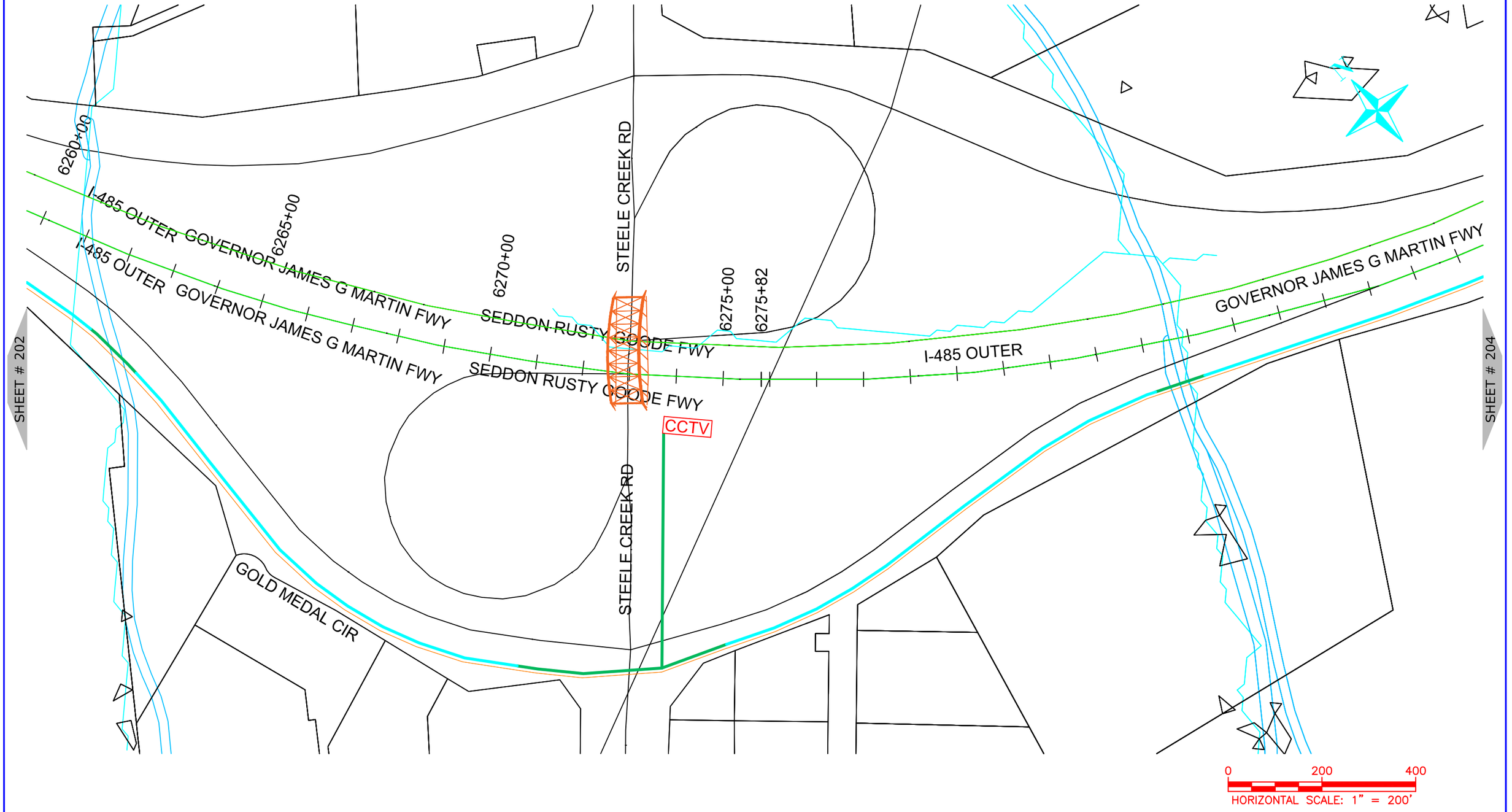
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 202

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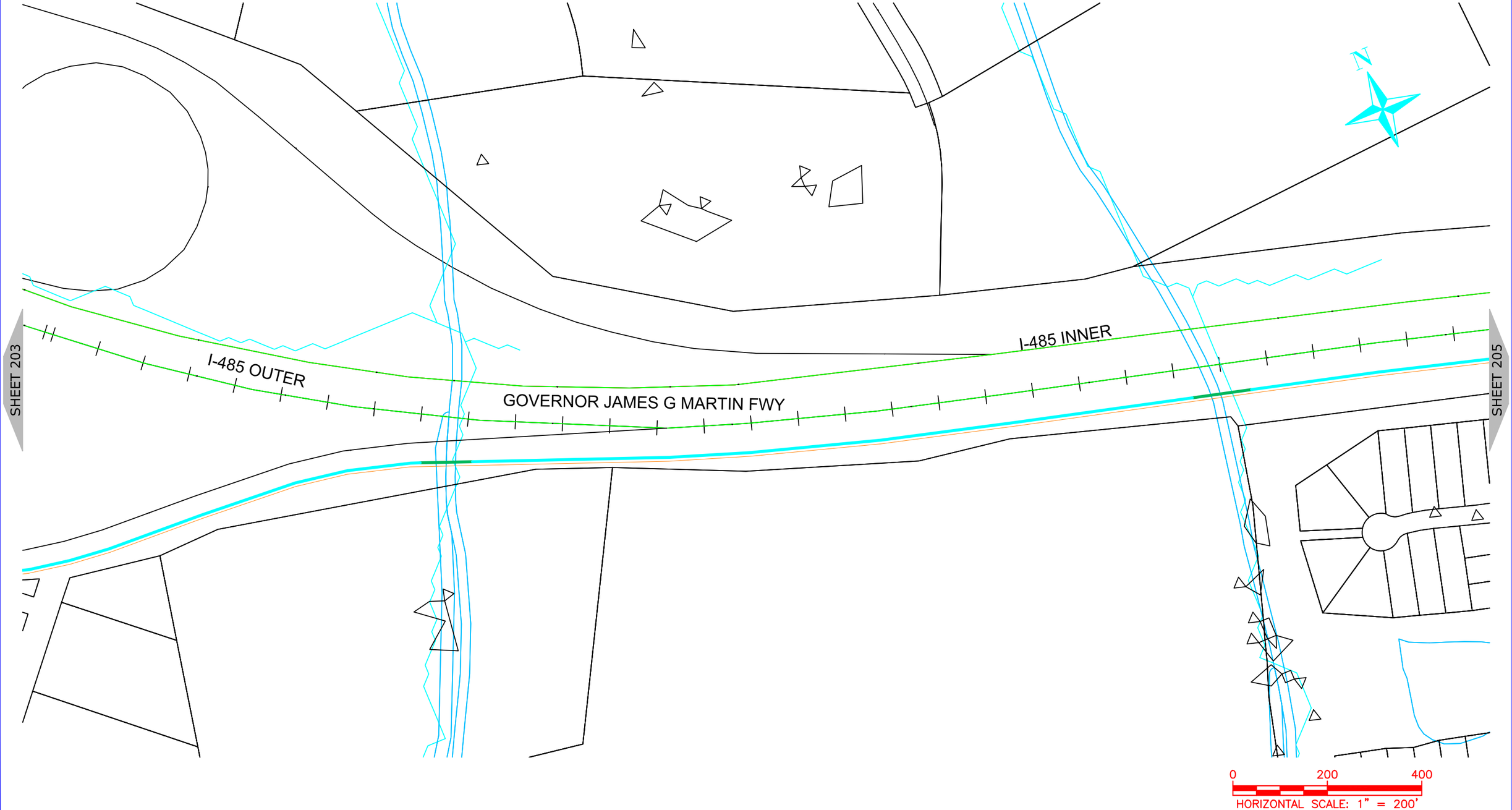
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PROJECT NAME: US-74

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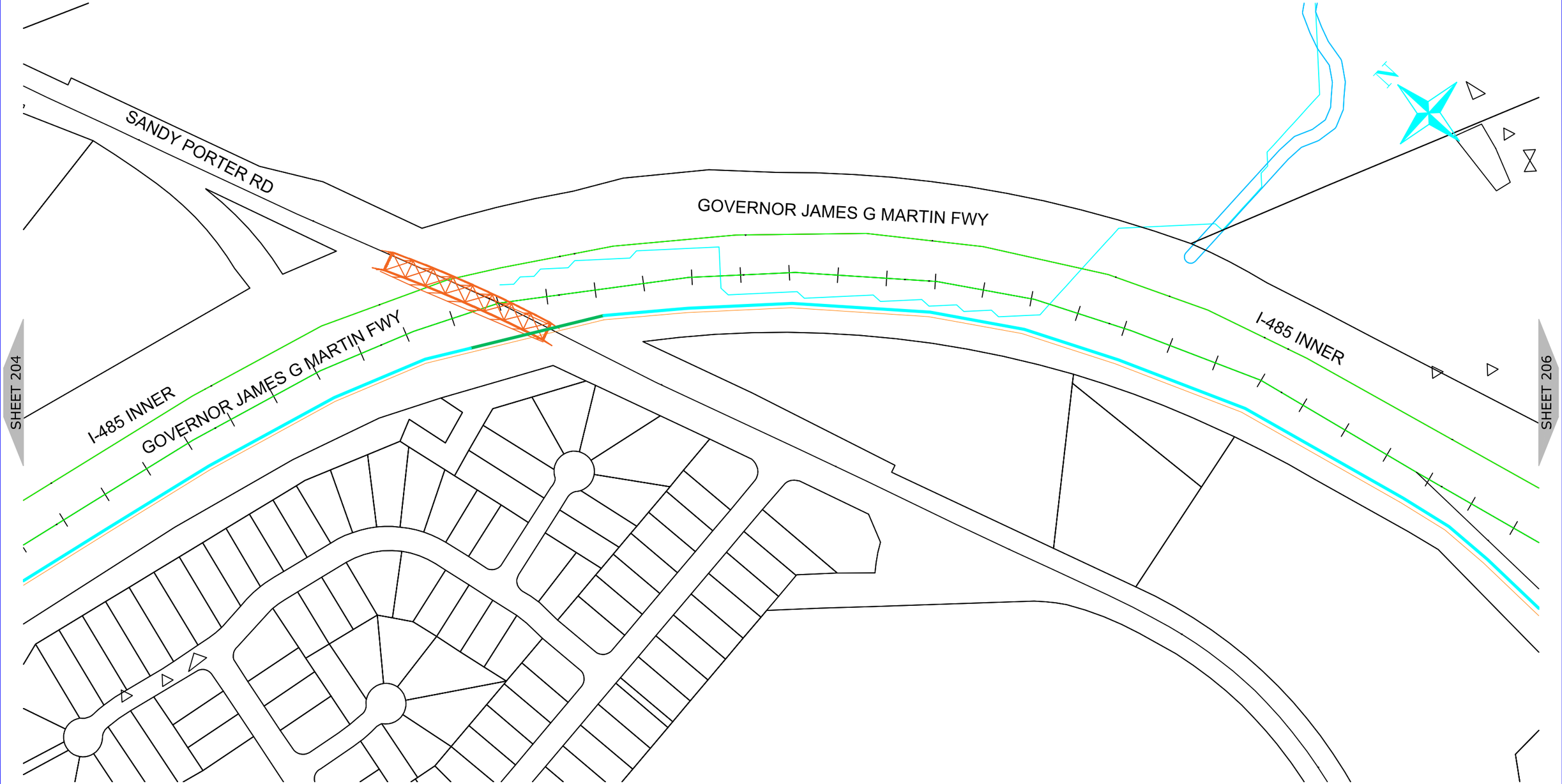
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 204

SHEET: 204

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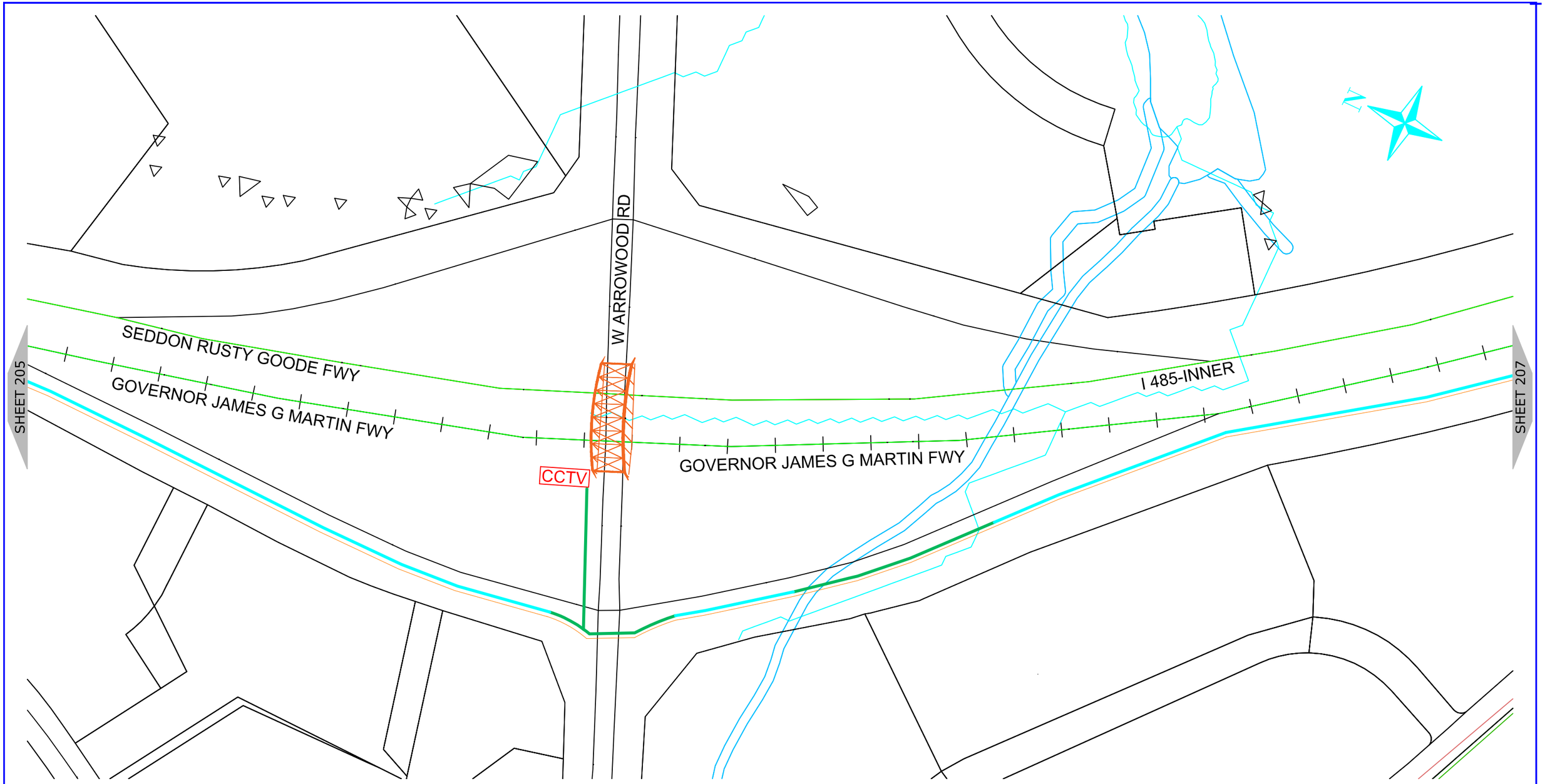
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
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PROJECT NAME: US-74

SHEET NAME: 205

SHEET: 205

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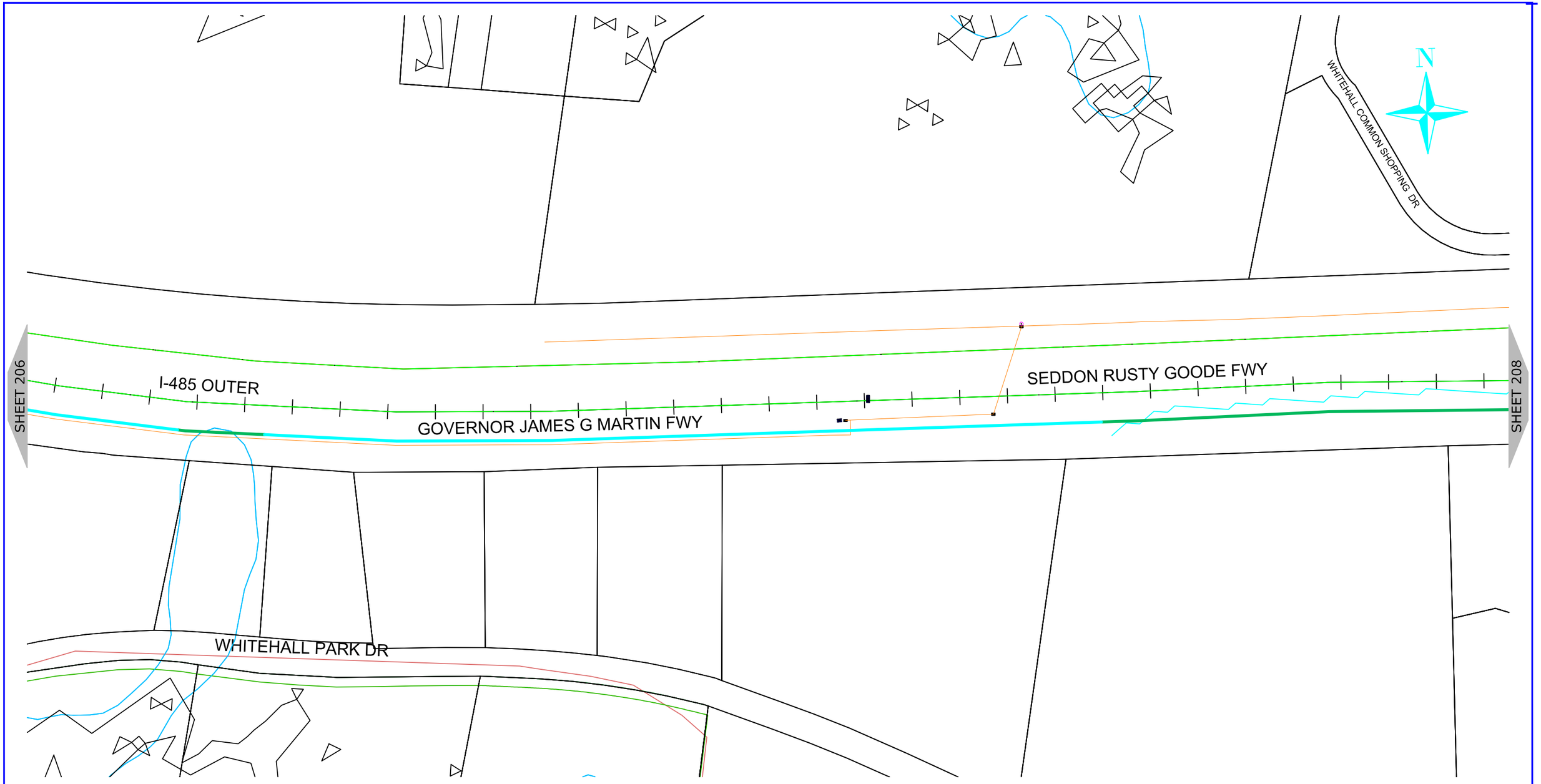
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
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PROJECT NAME: US-74

SHEET NAME: 206

SHEET: 206

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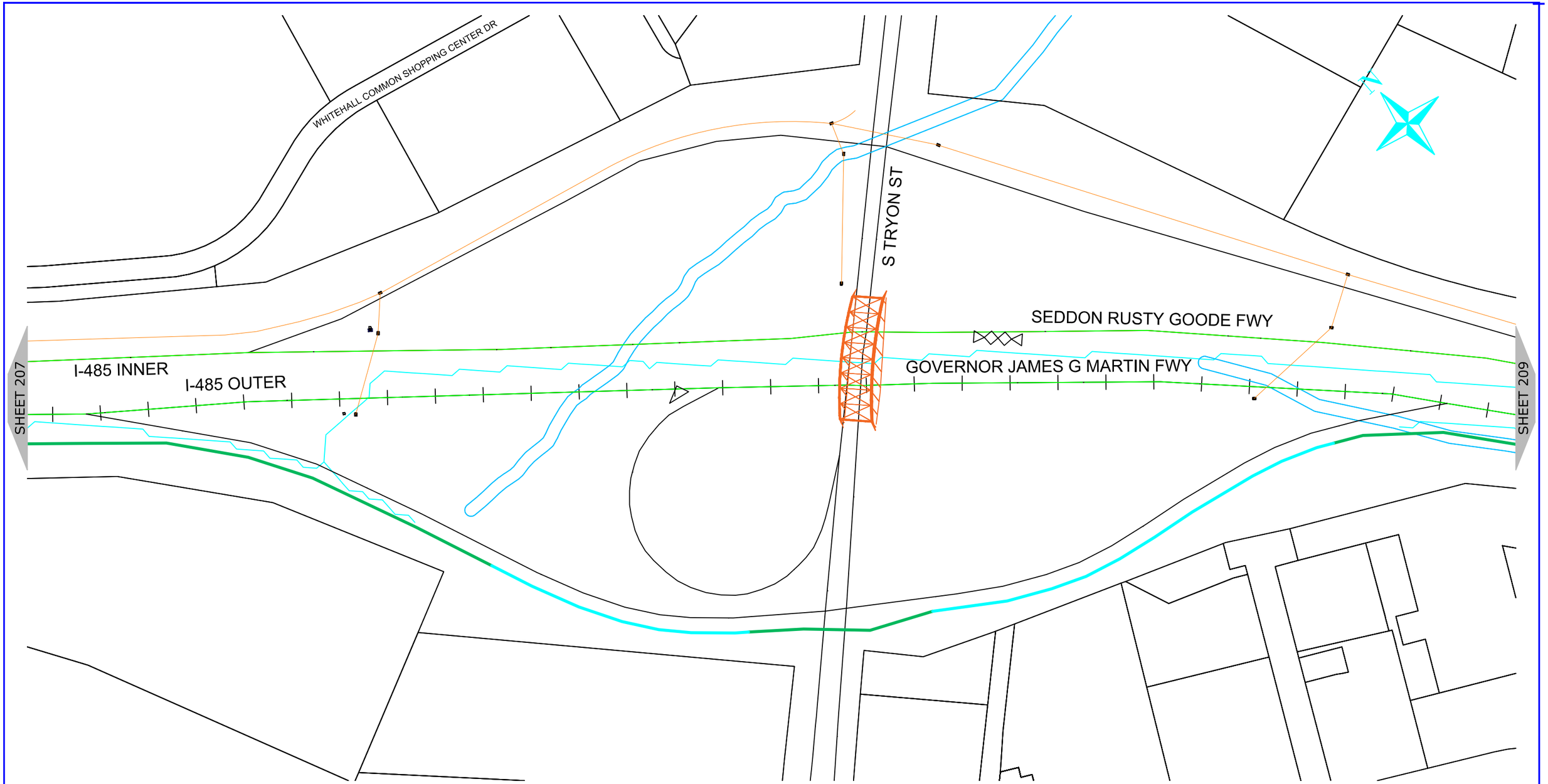
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 207

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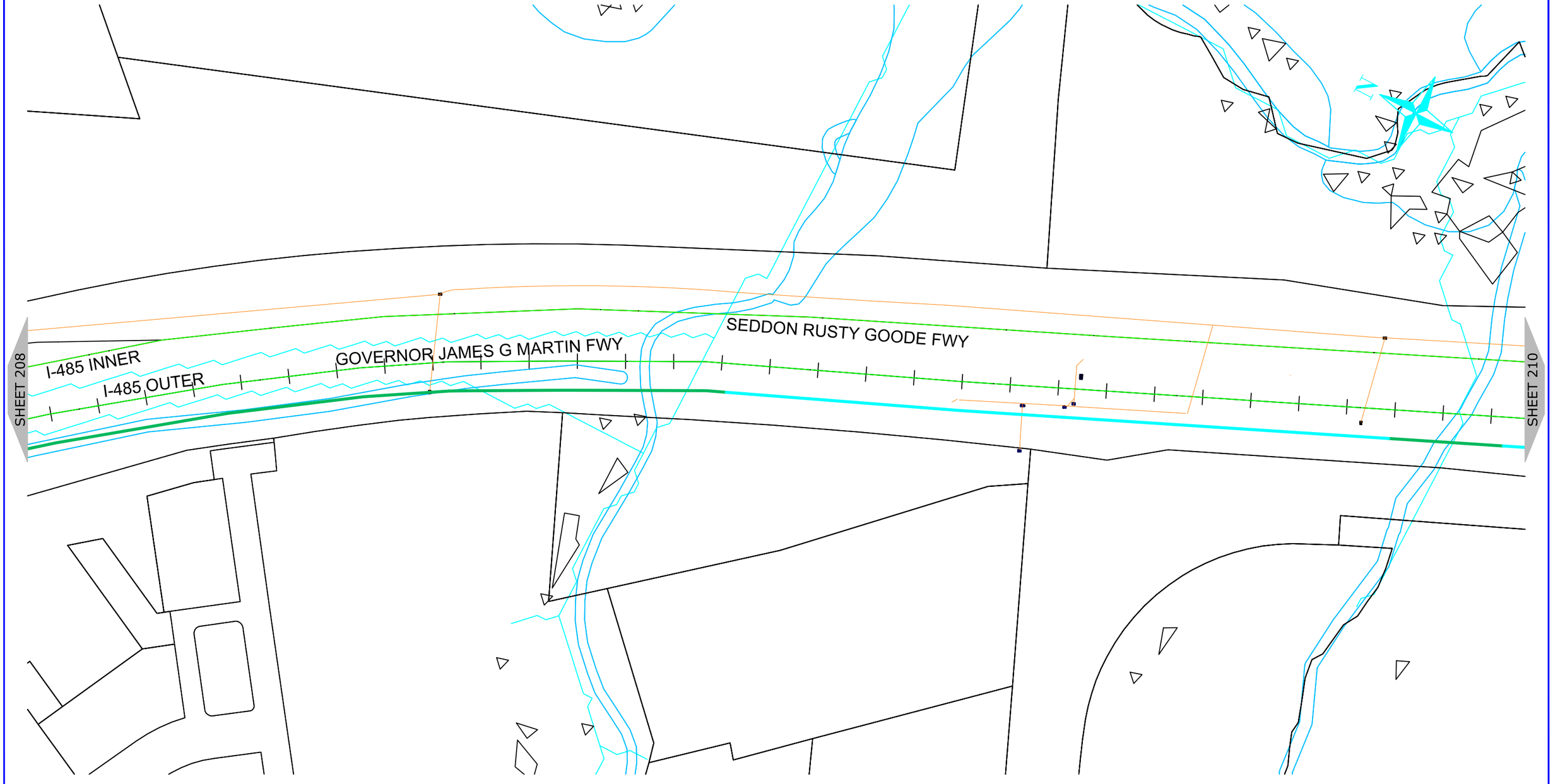
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 208

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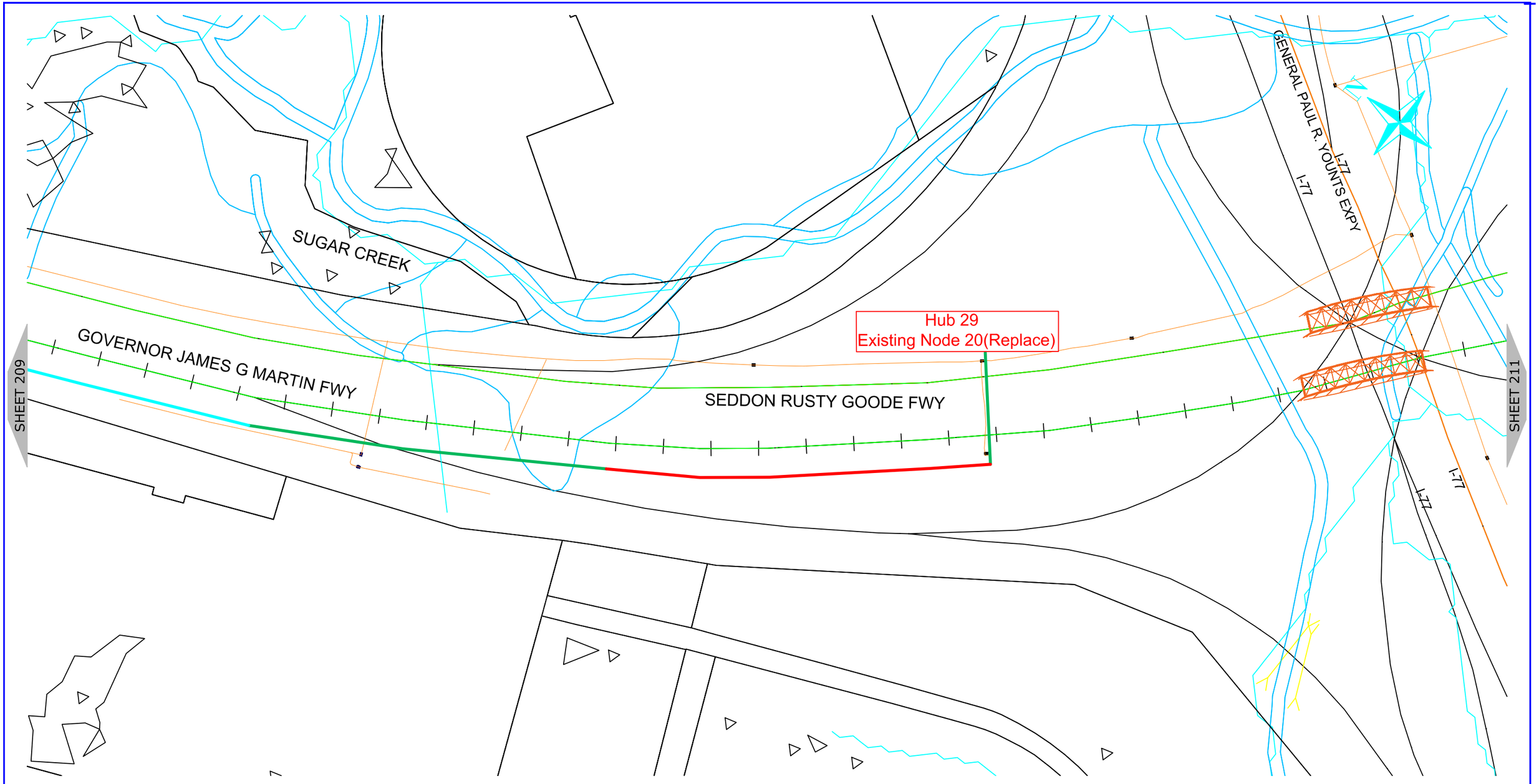
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 209

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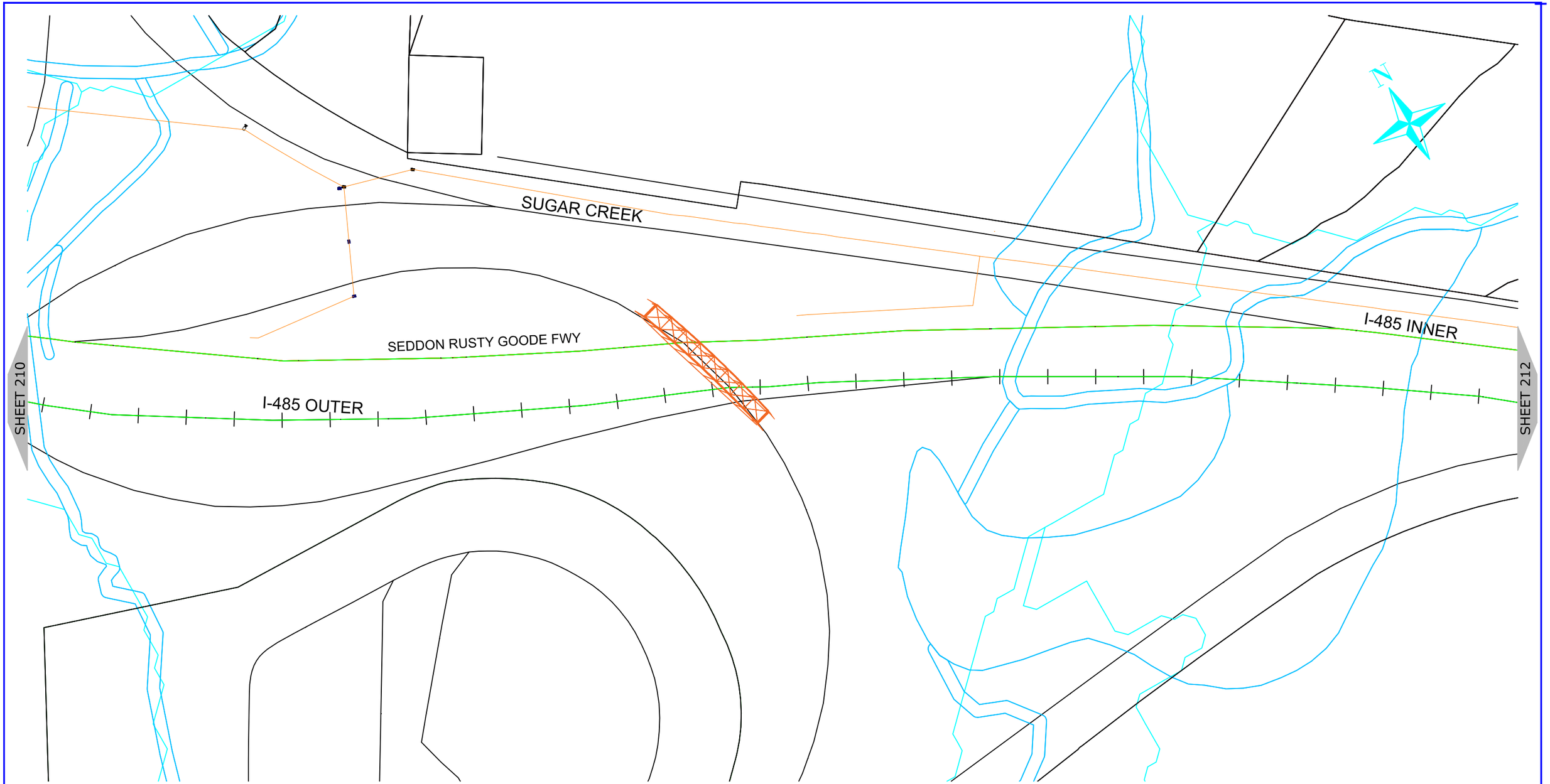
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 210

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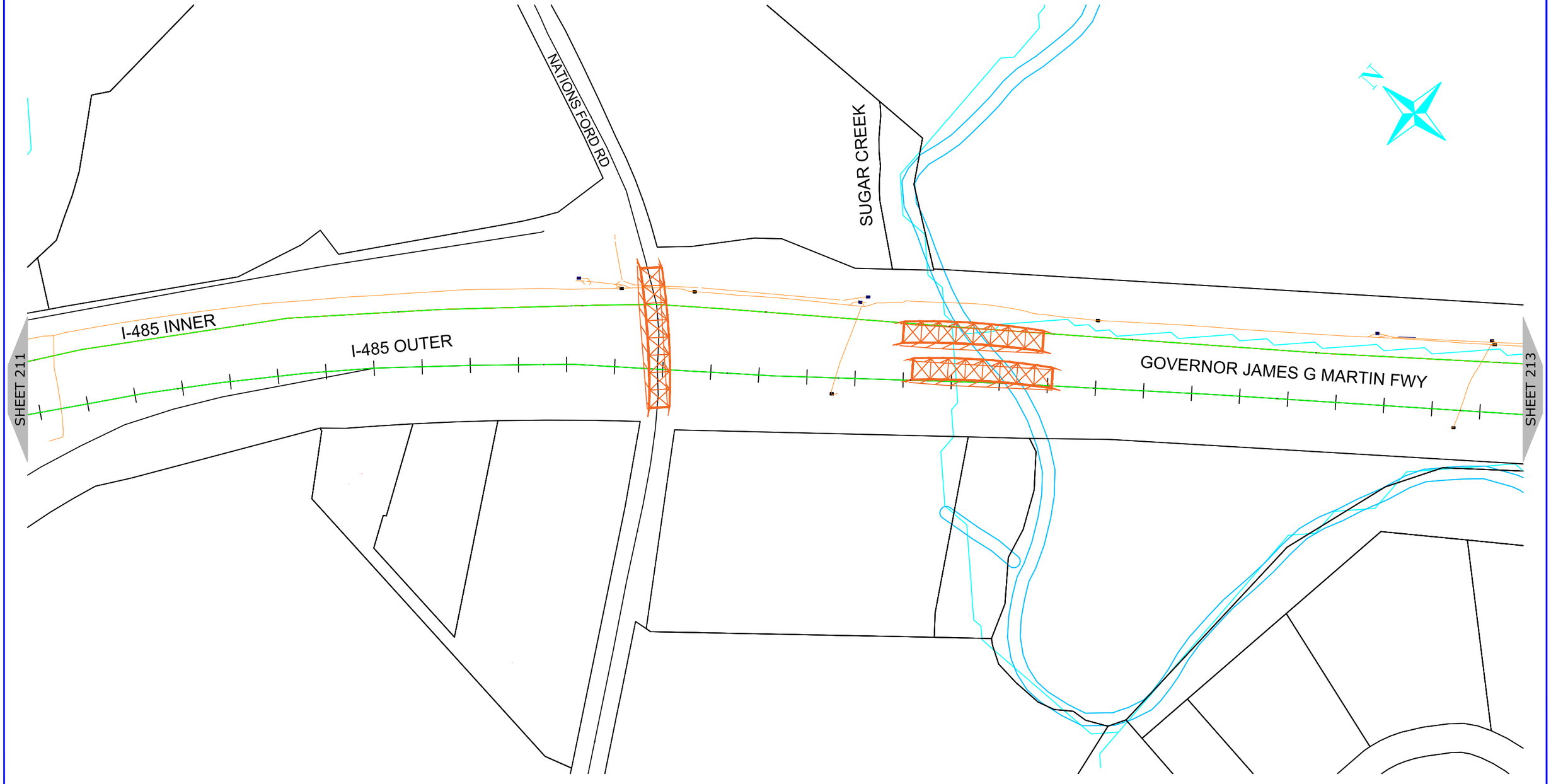
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 211

SHEET: 211

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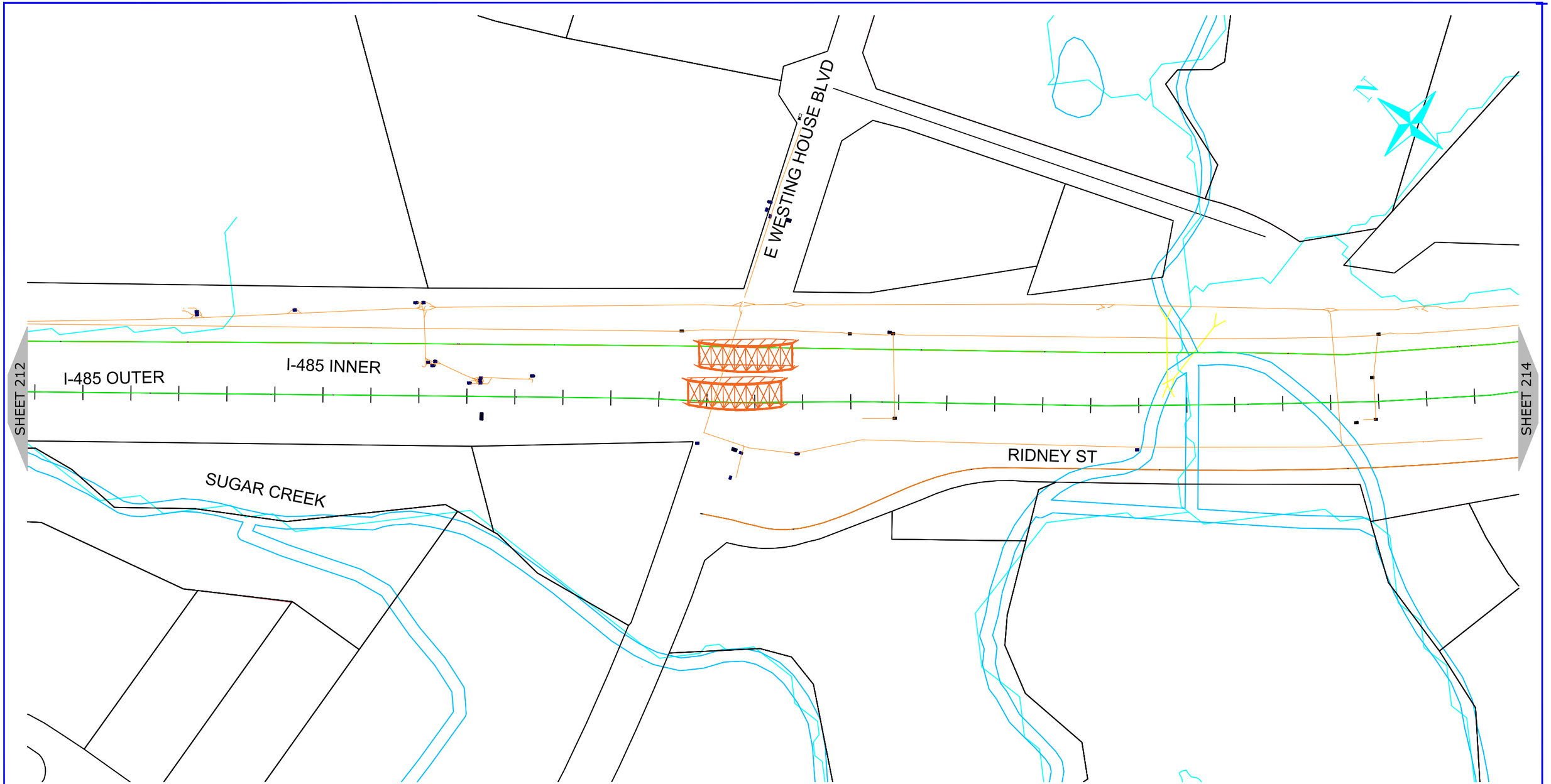
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 212

SHEET: 212

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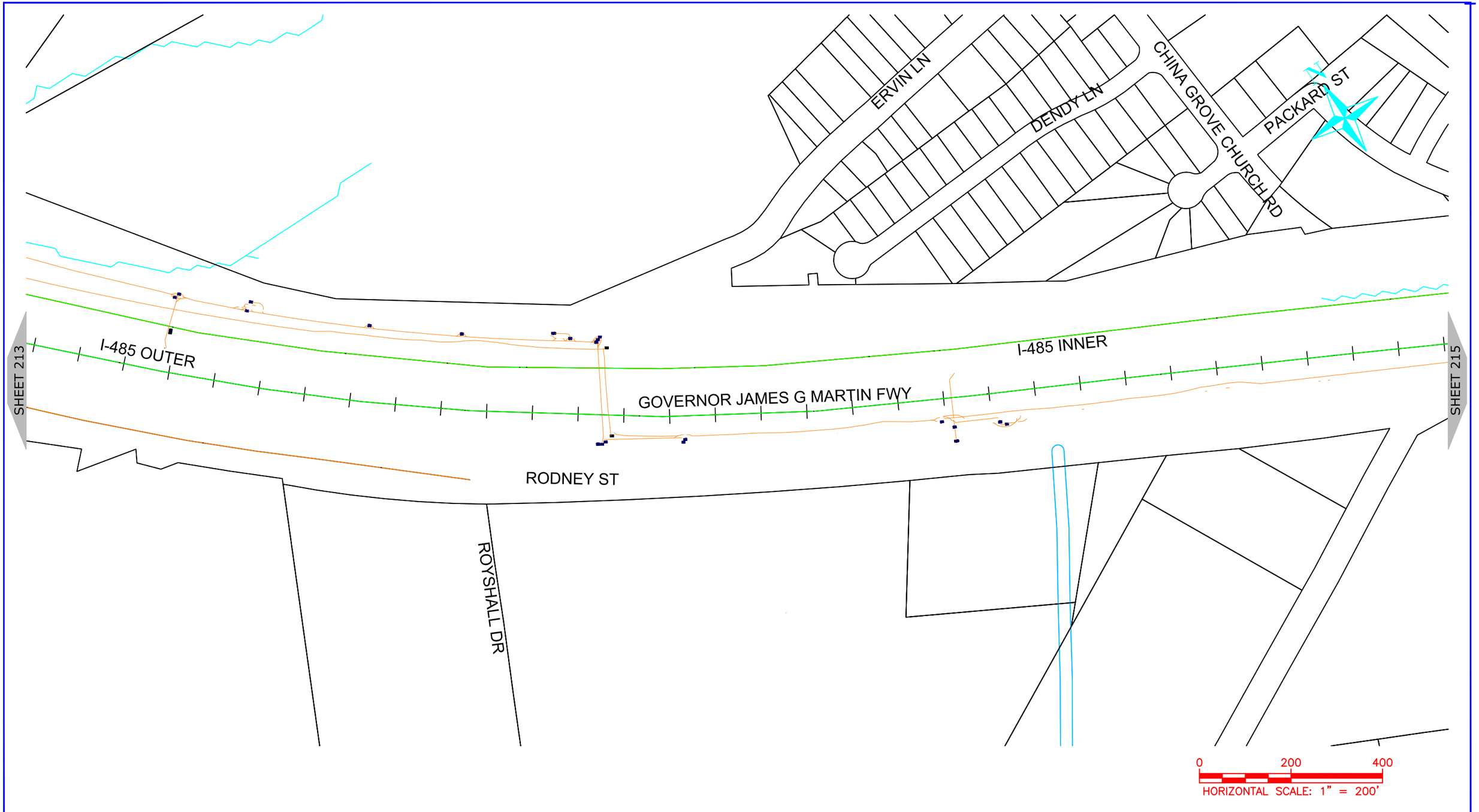
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
213

SHEET:
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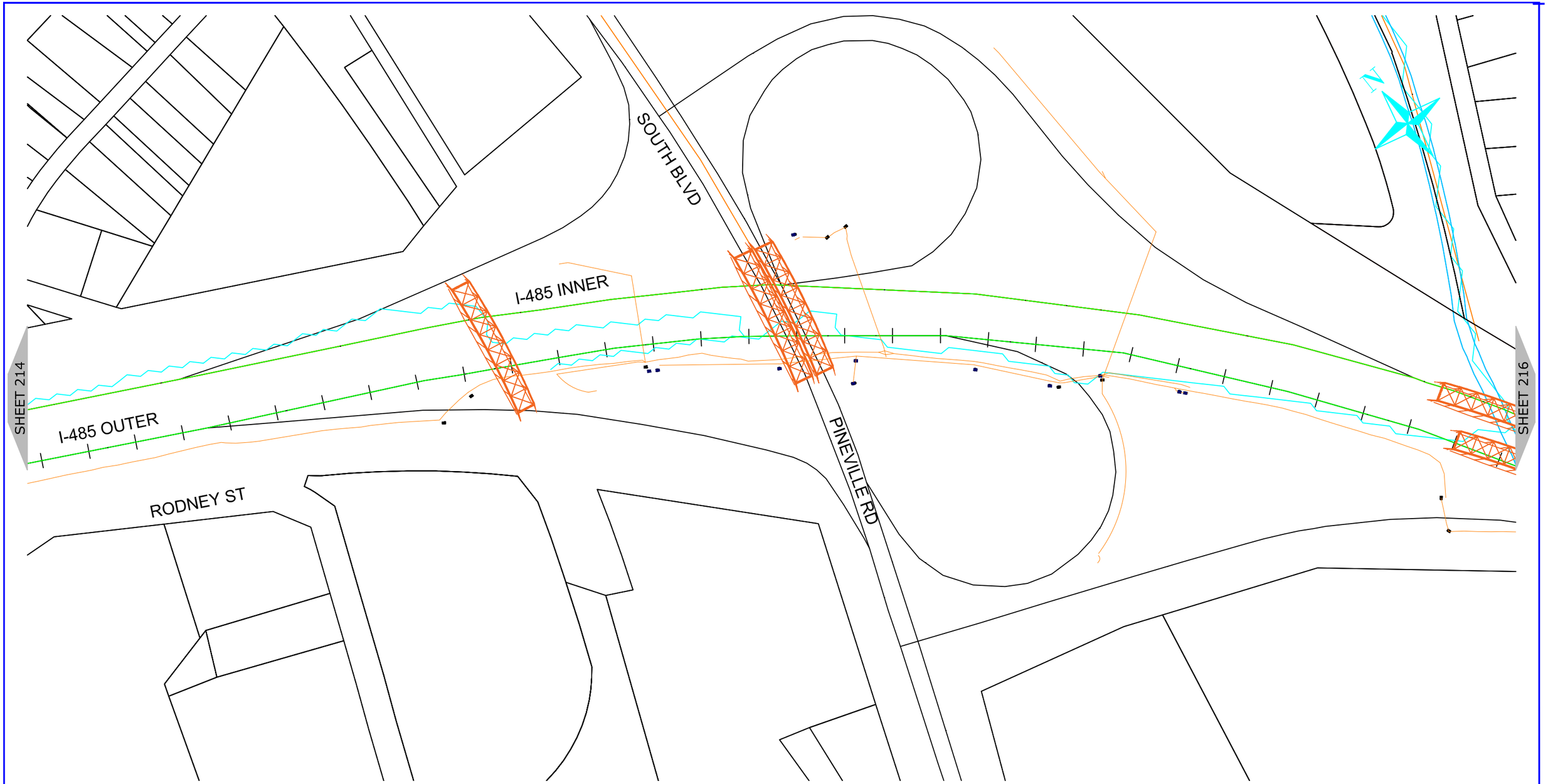
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 214

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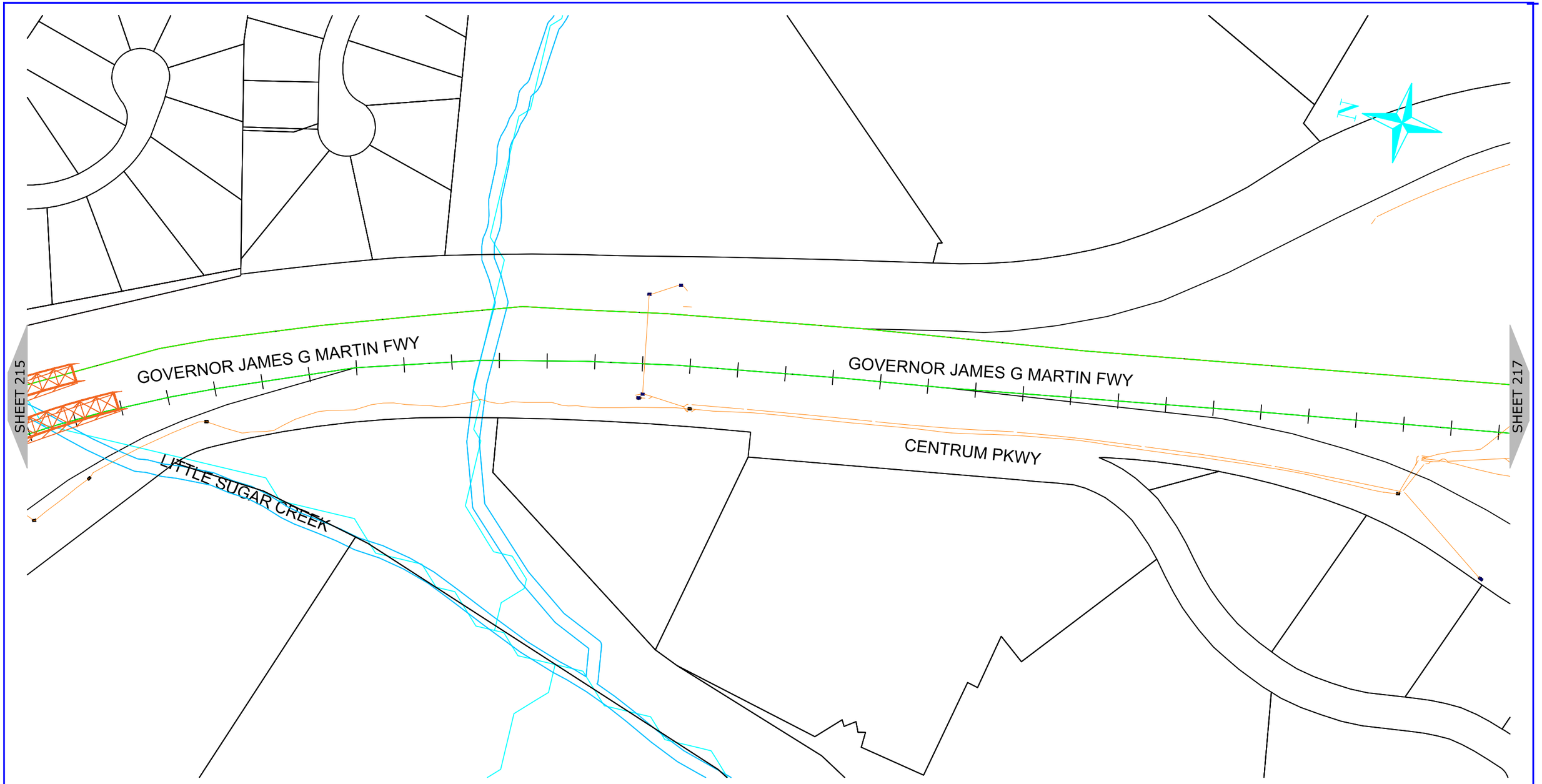
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 215

SHEET: 215

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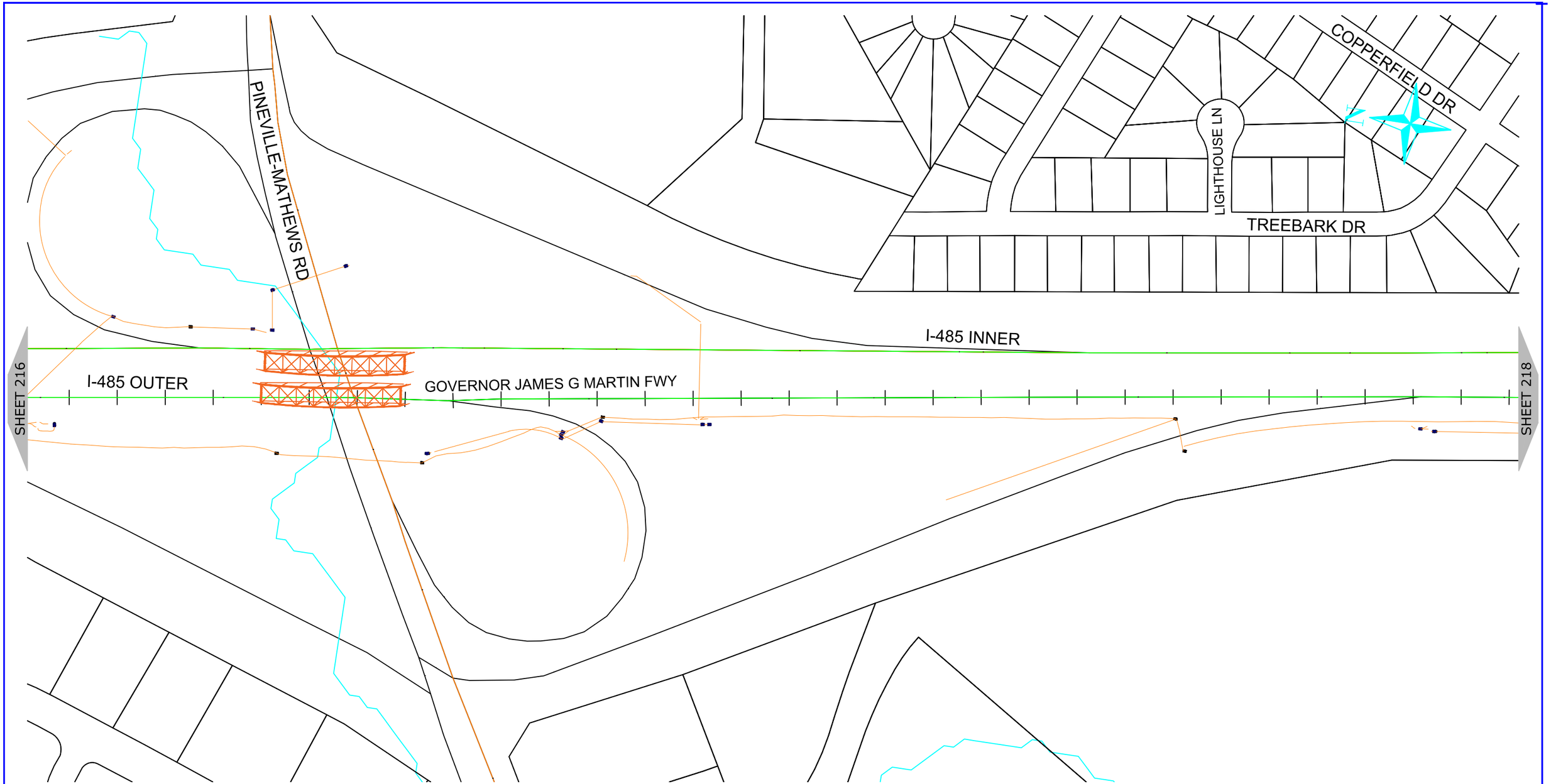
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 216

SHEET: 216

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0 200 400

HORIZONTAL SCALE: 1" = 200'

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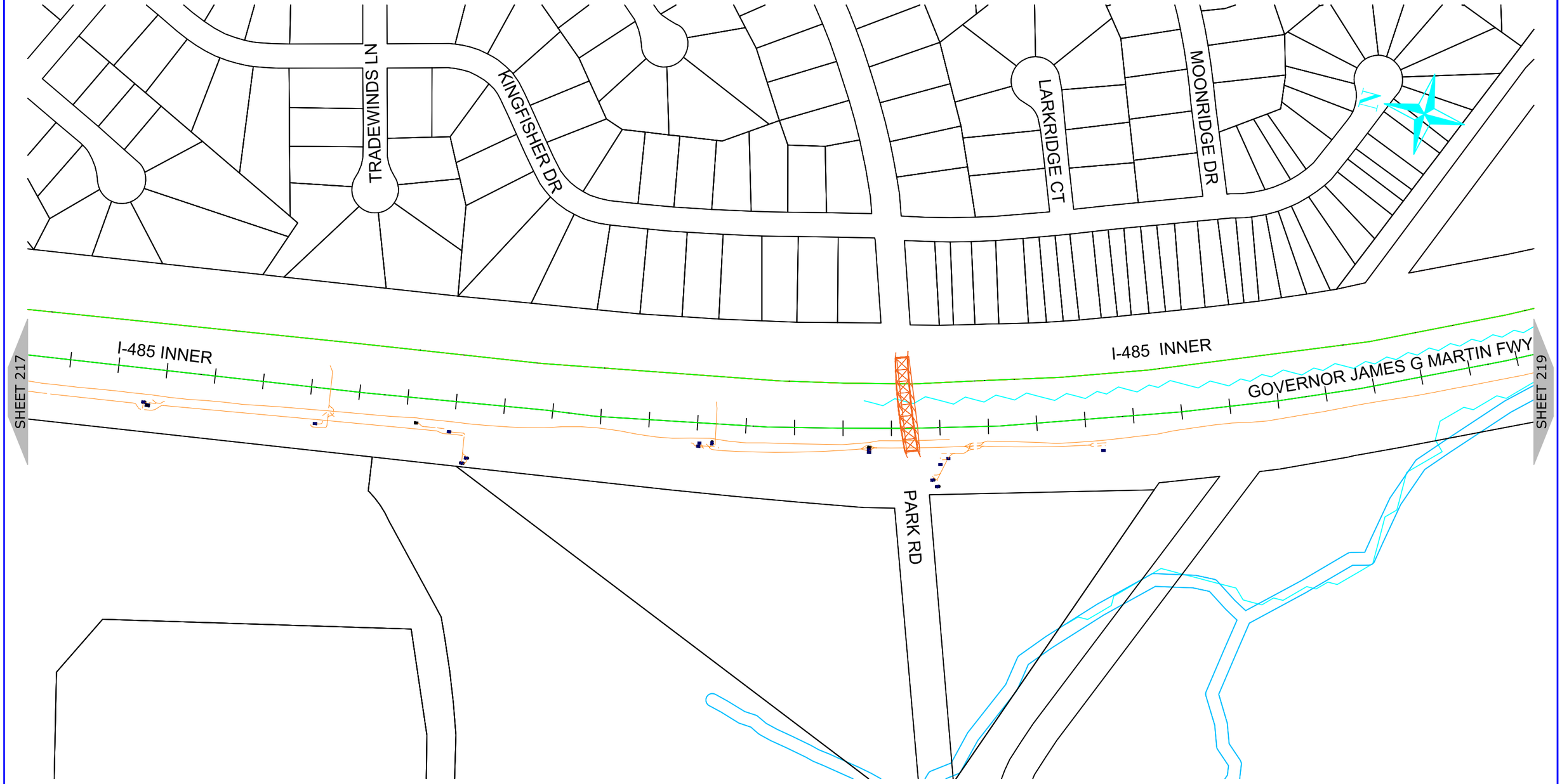
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 217

SHEET: 217

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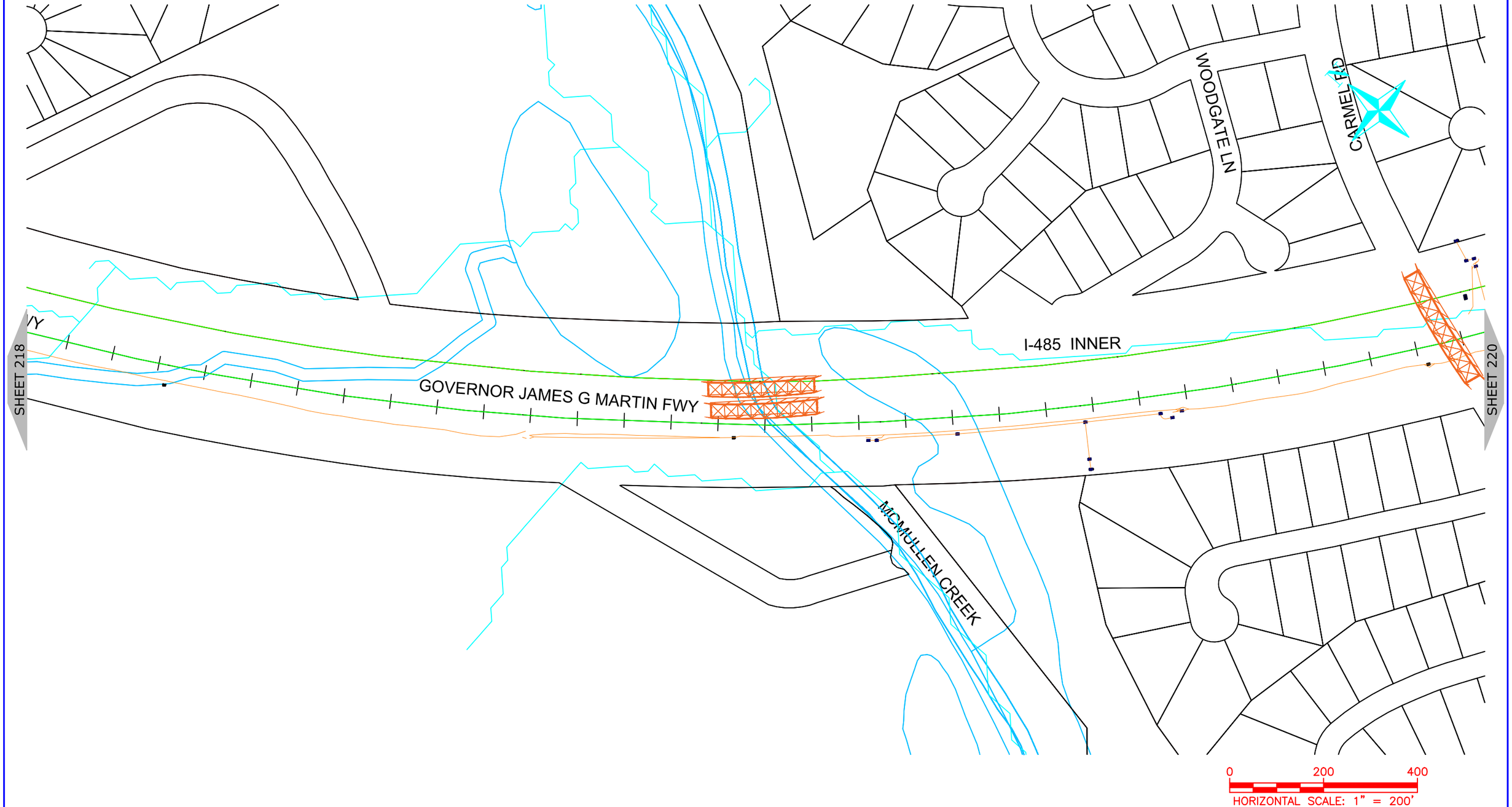
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 218

SHEET: 218

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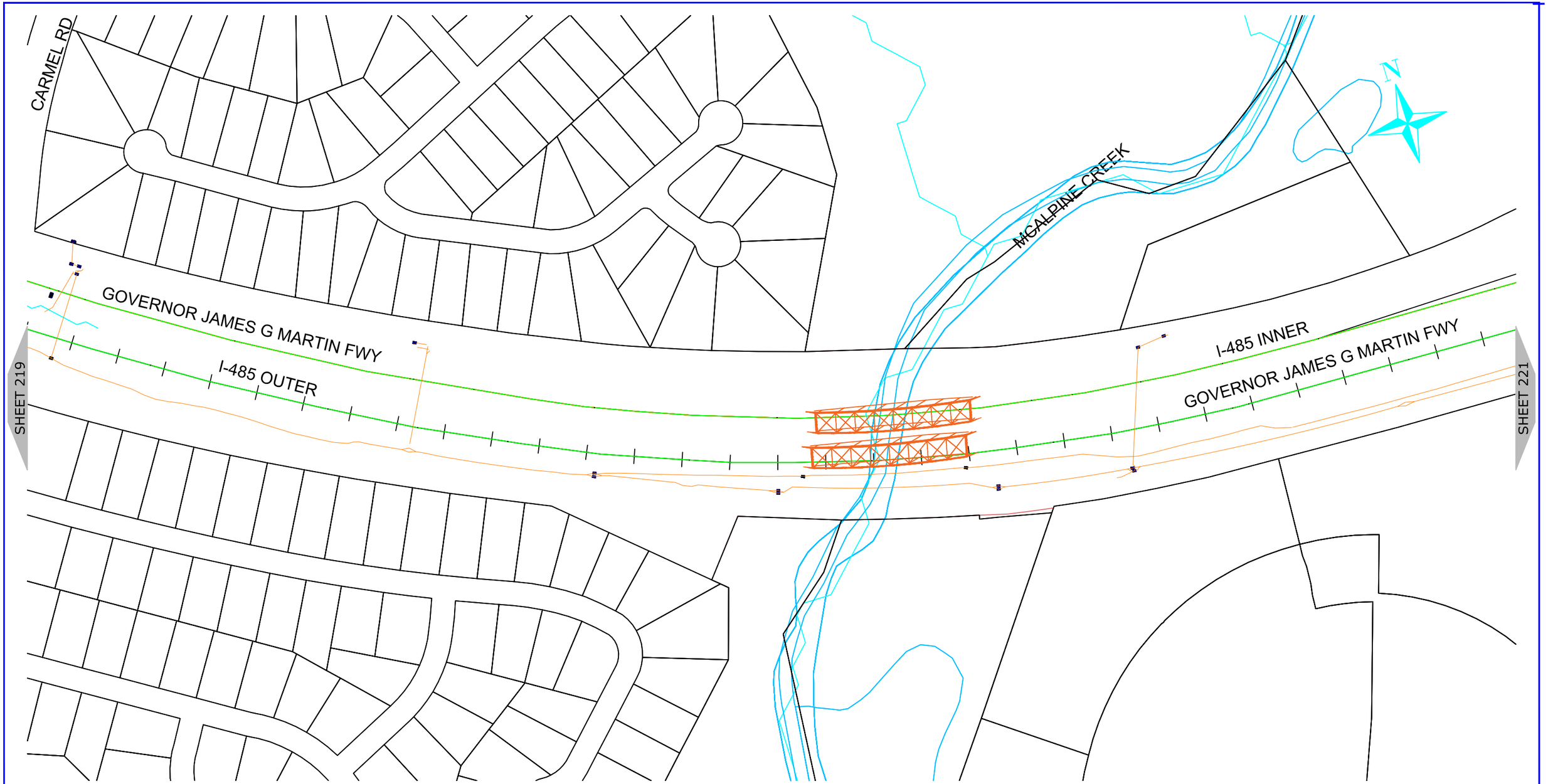
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 219

SHEET: 219

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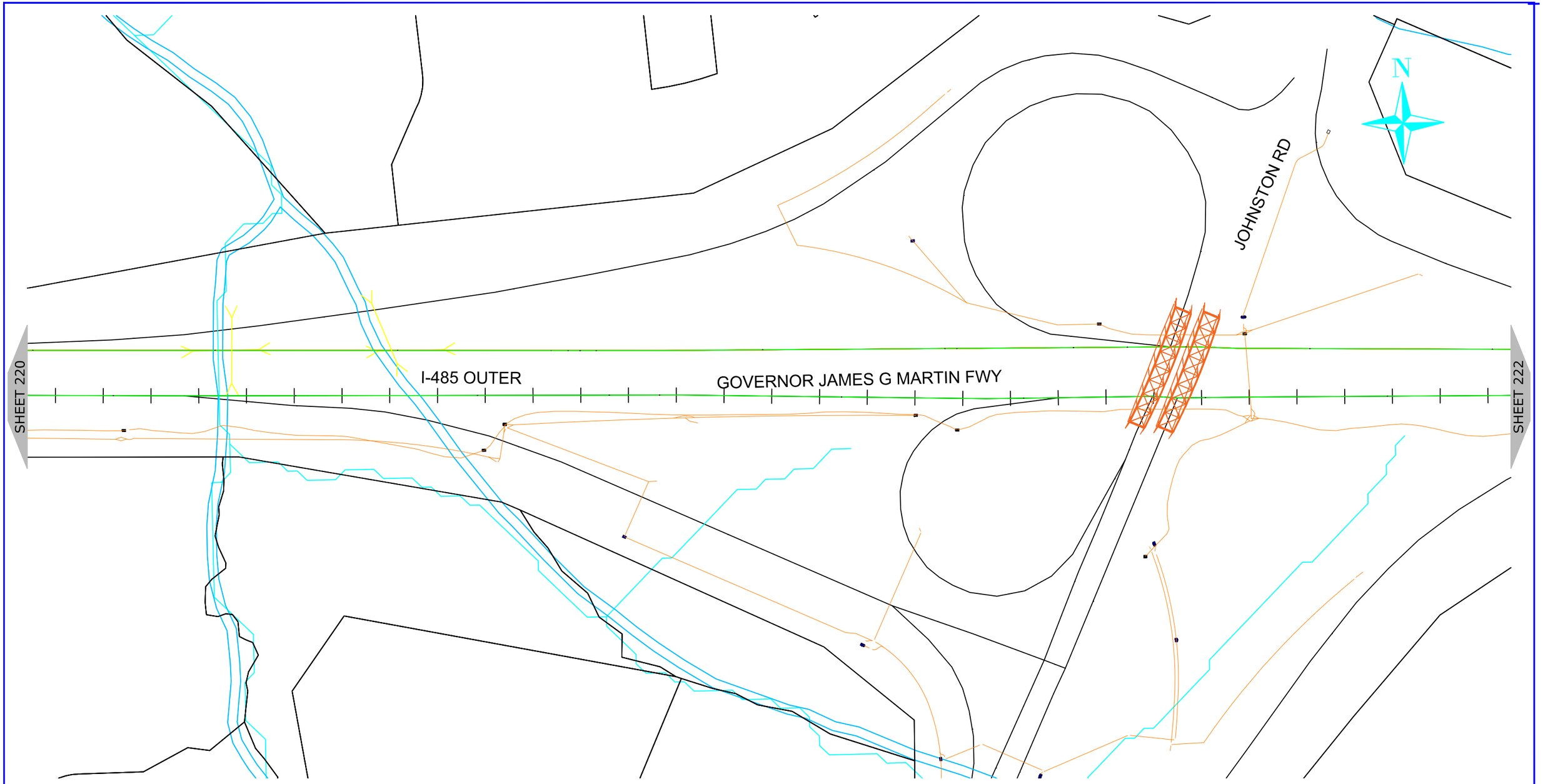
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 220

SHEET: 220

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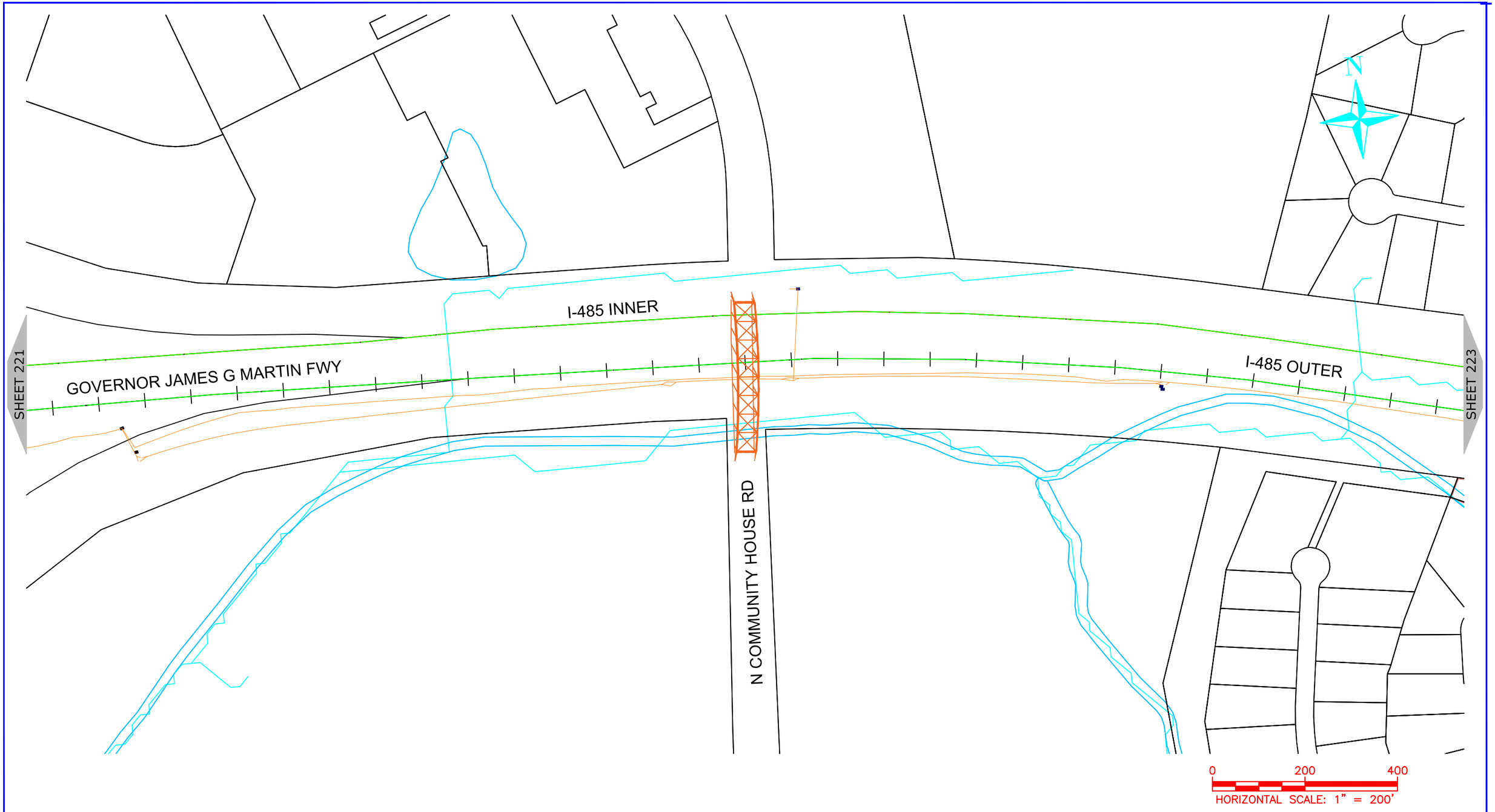
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 221

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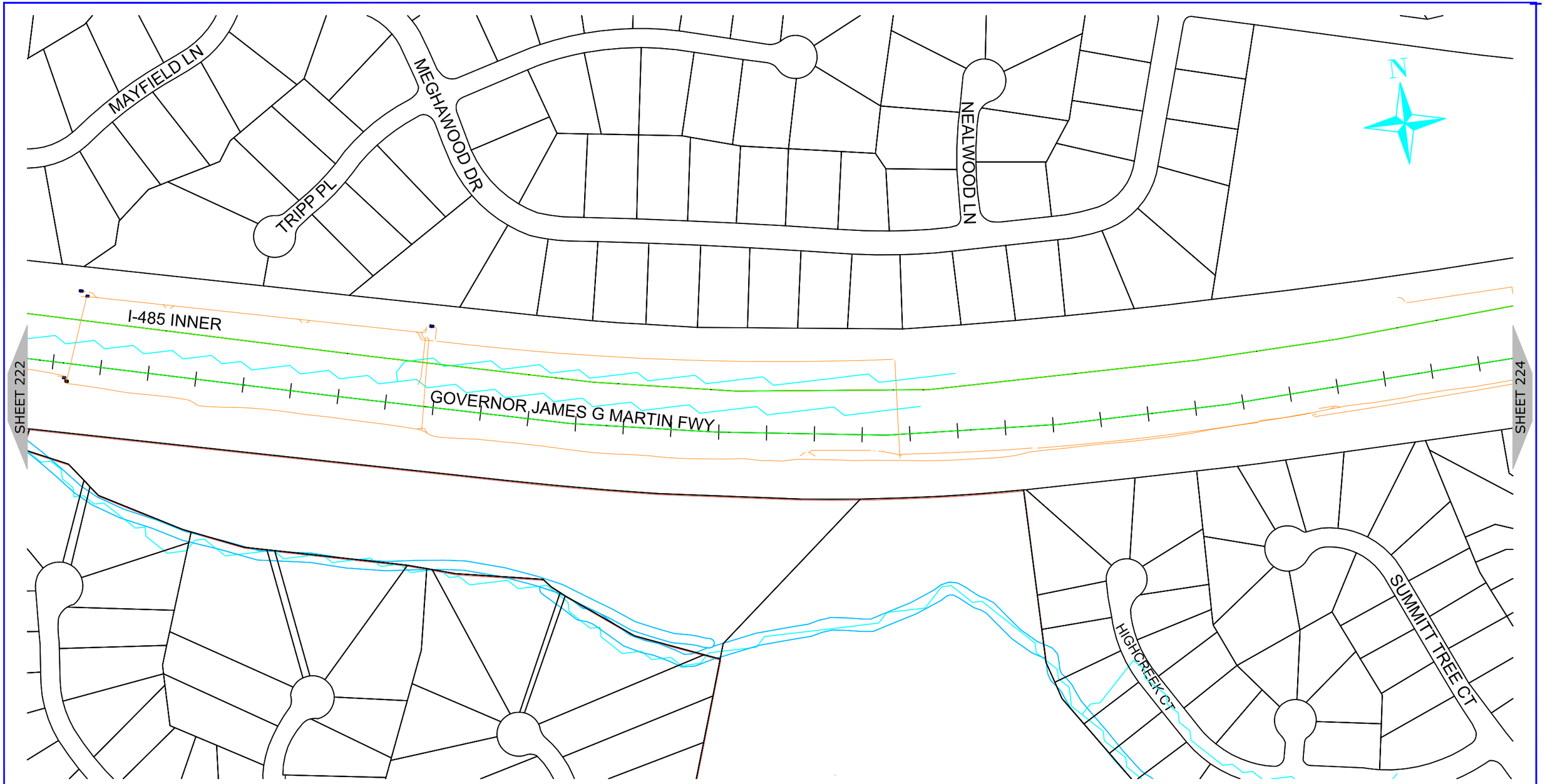
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 222

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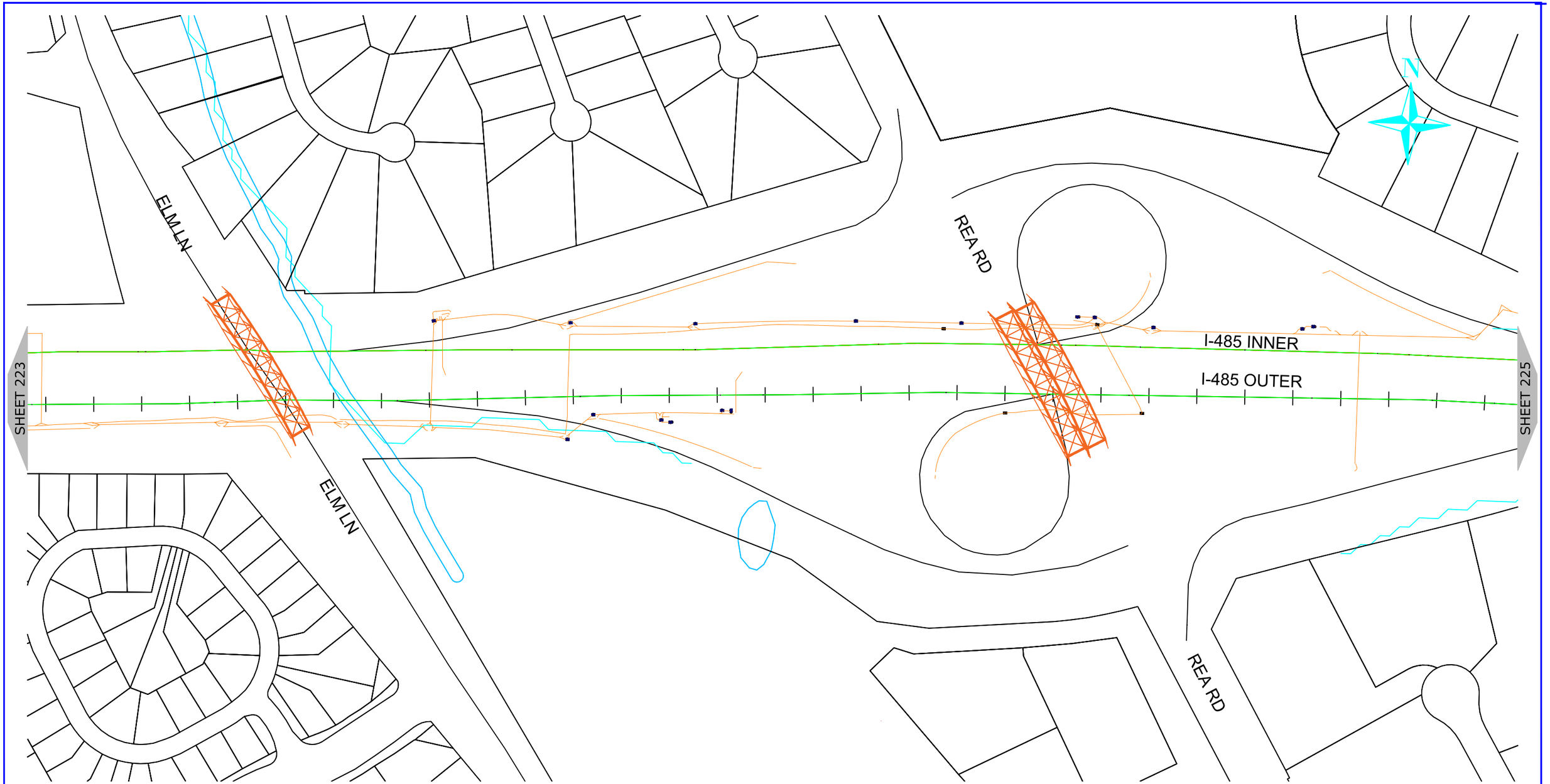
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 223

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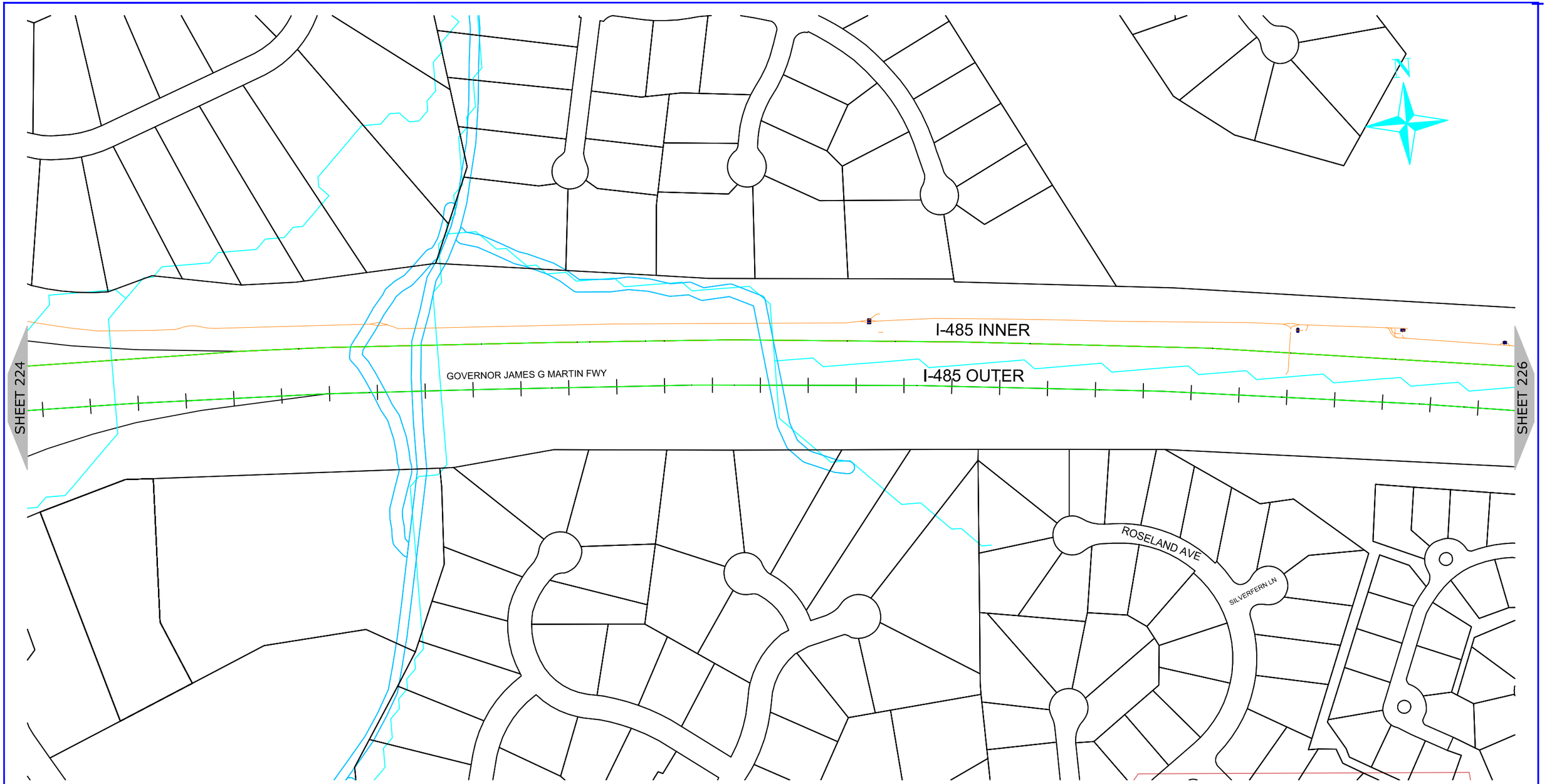
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 224

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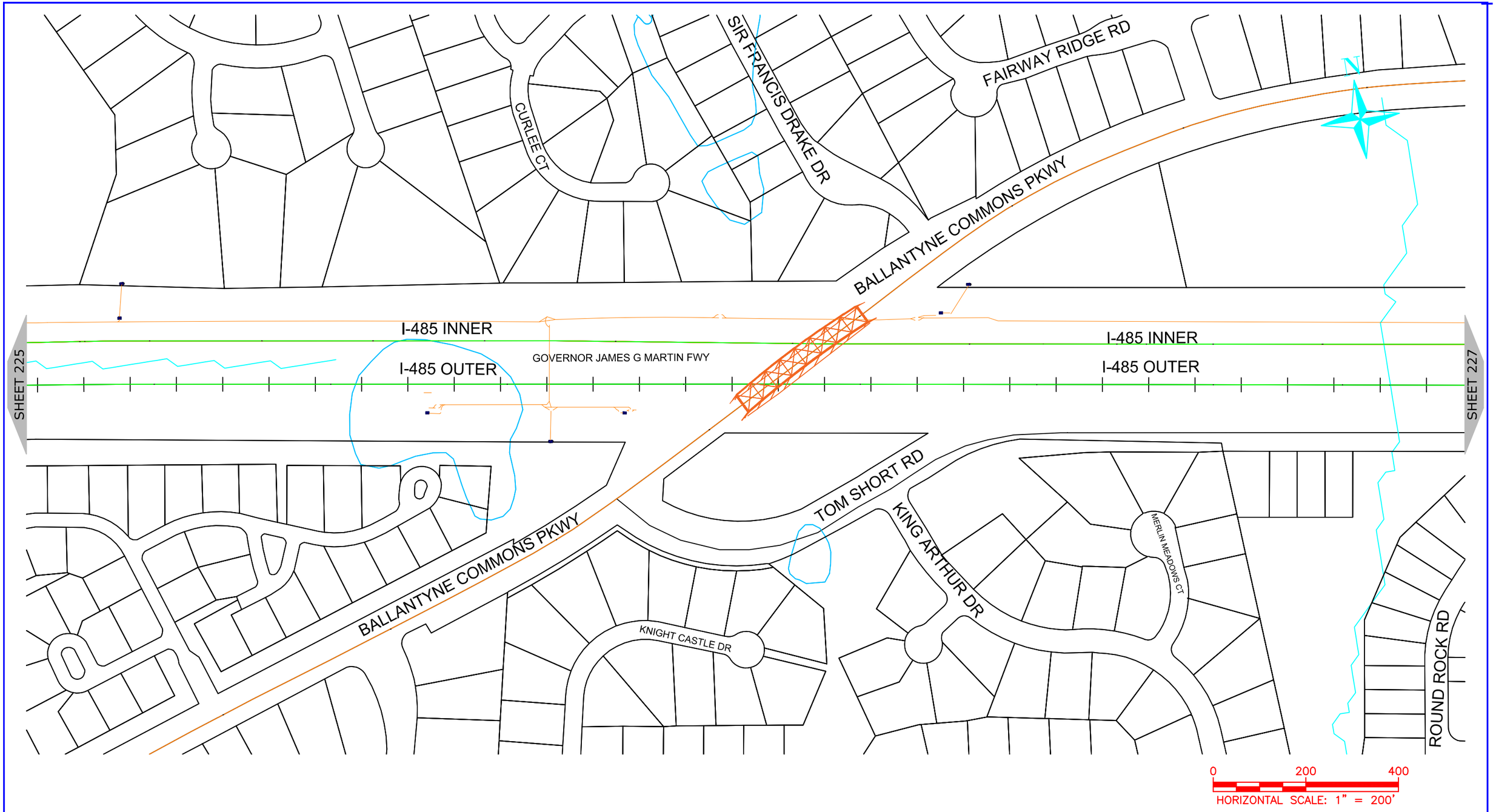
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 225

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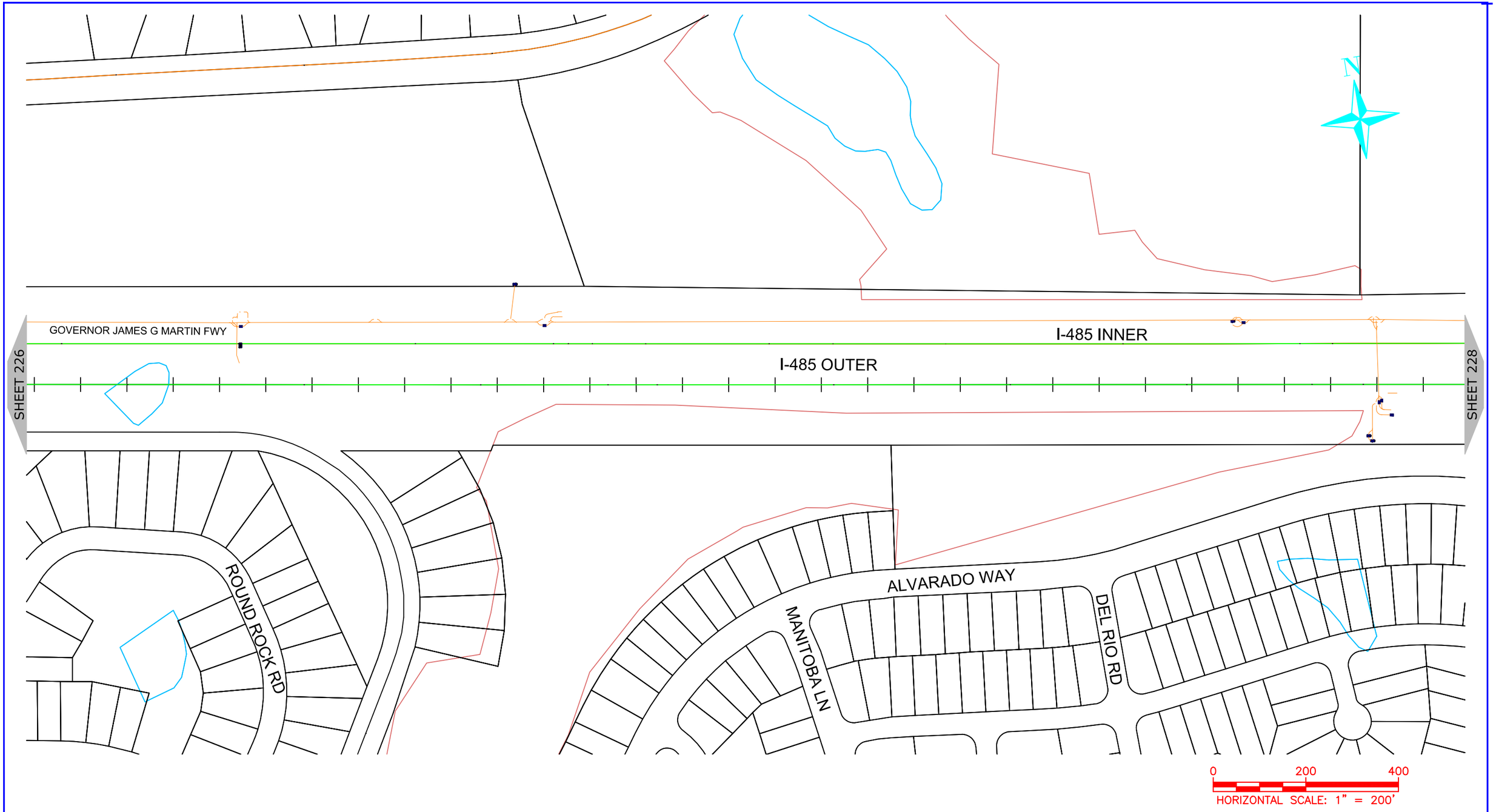
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 226

SHEET: 226

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3315 ATLANTIC AVE
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(919) 876-5455

REV	DATE	DESCRIPTION
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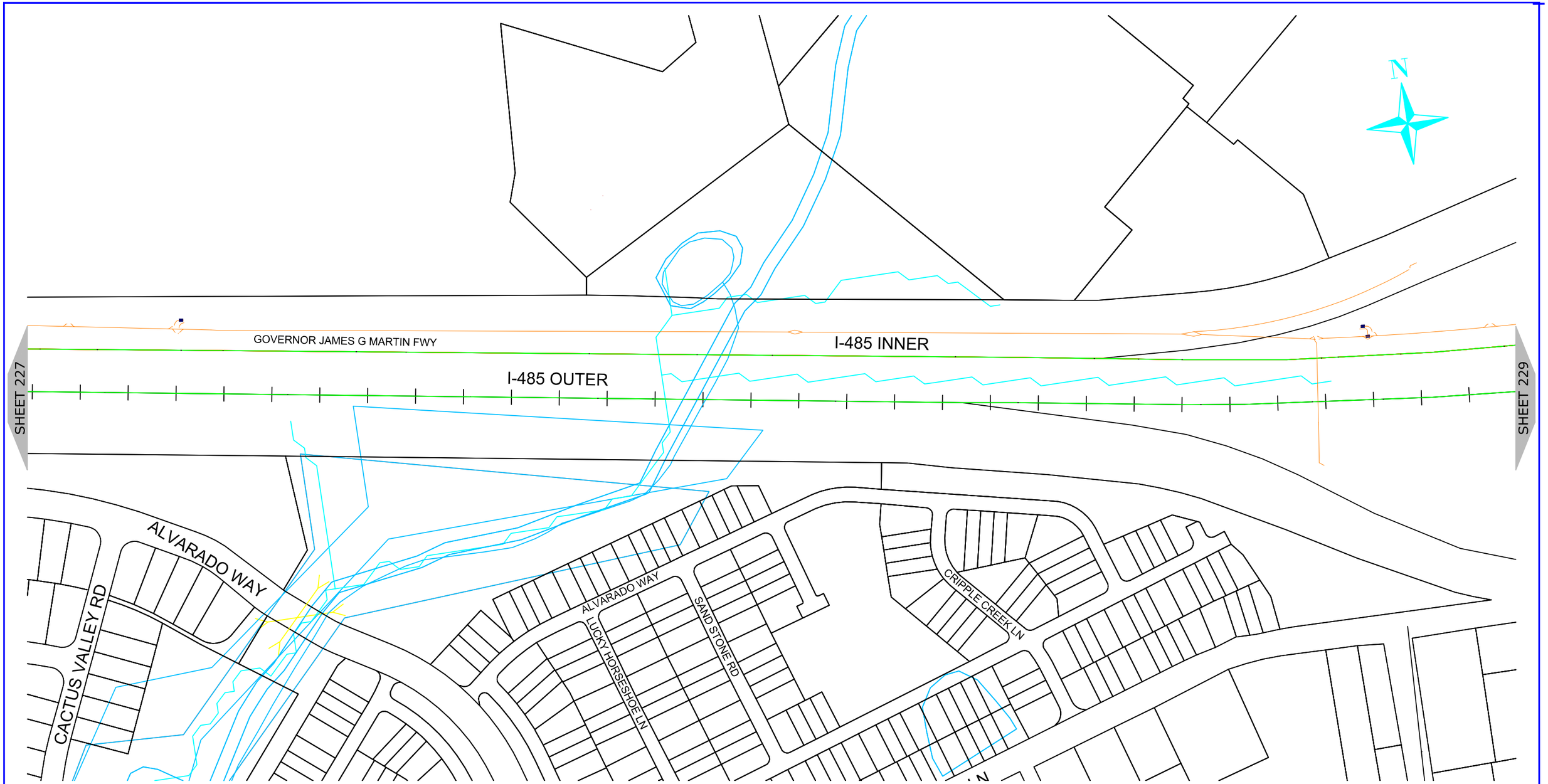
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 227

SHEET: 227

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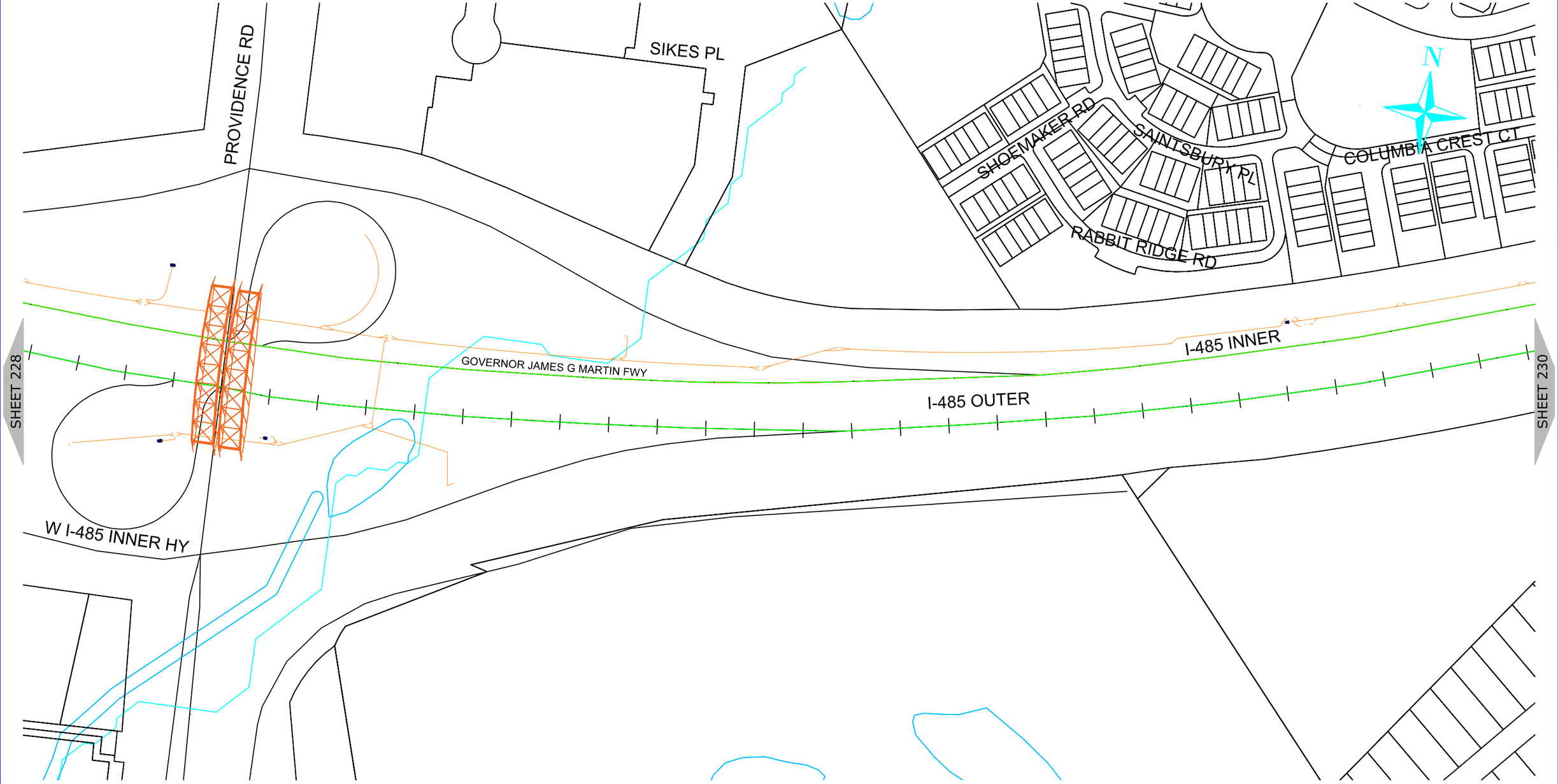
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 228

SHEET: 228

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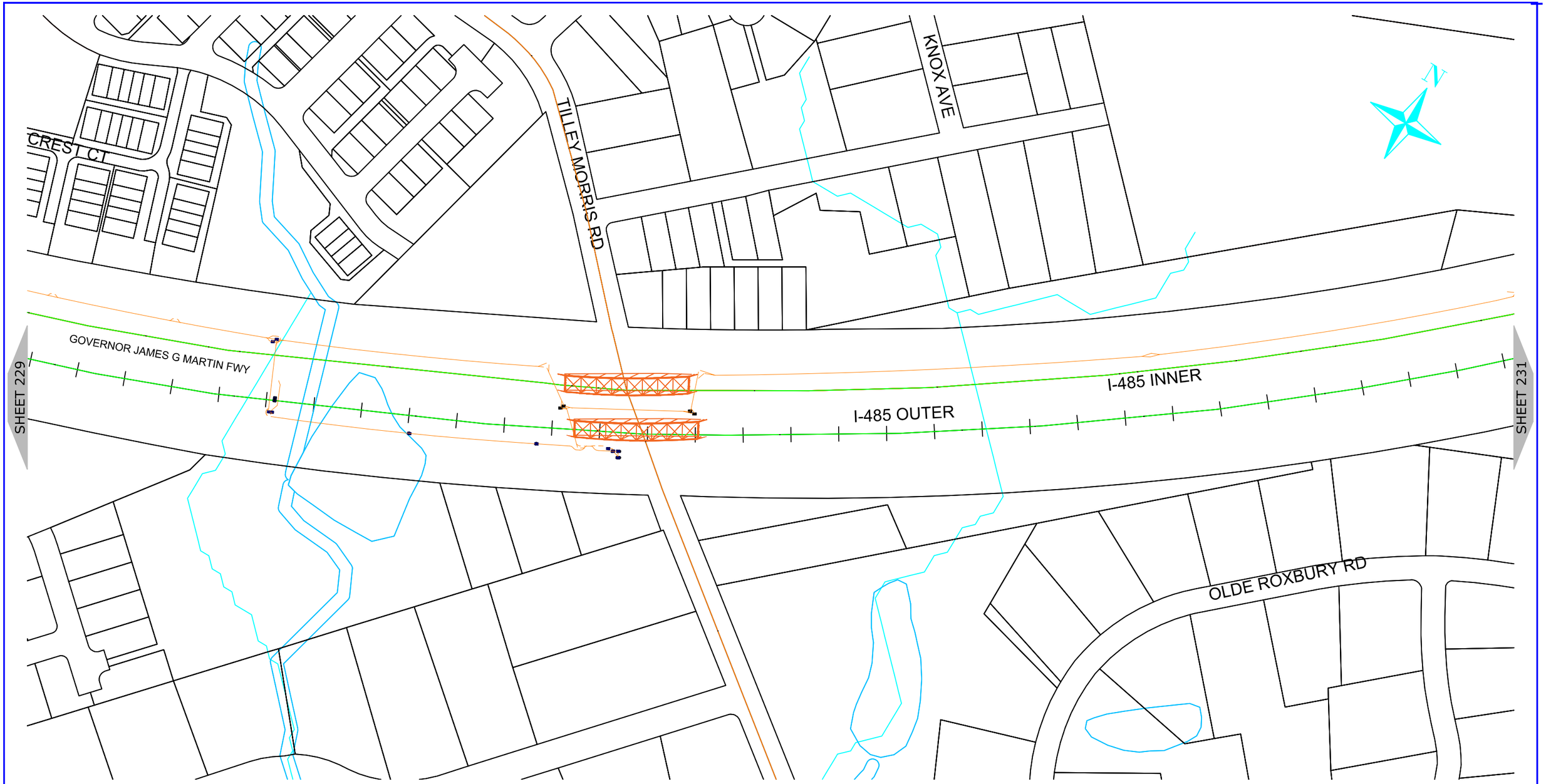
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 229

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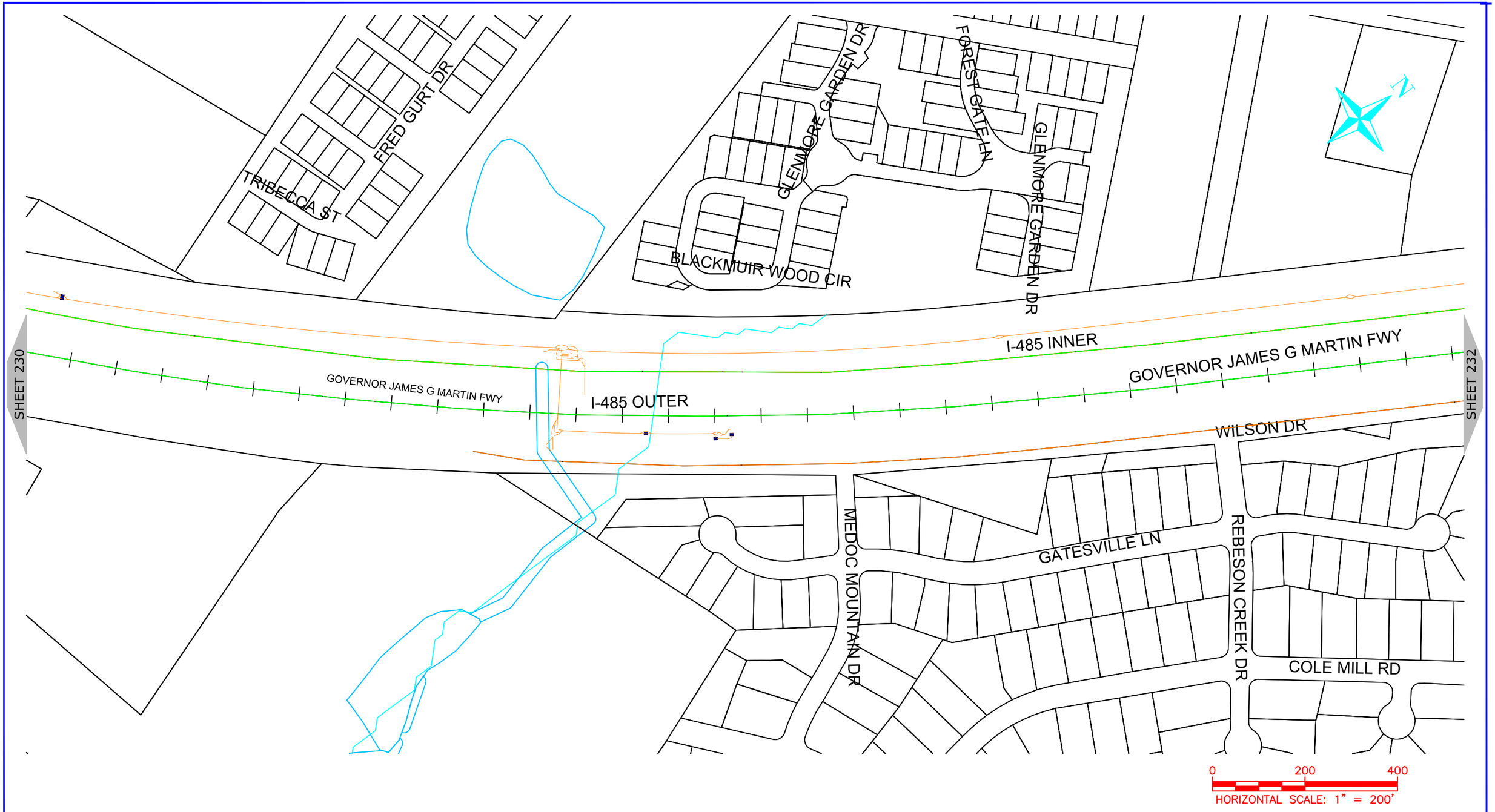
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 230

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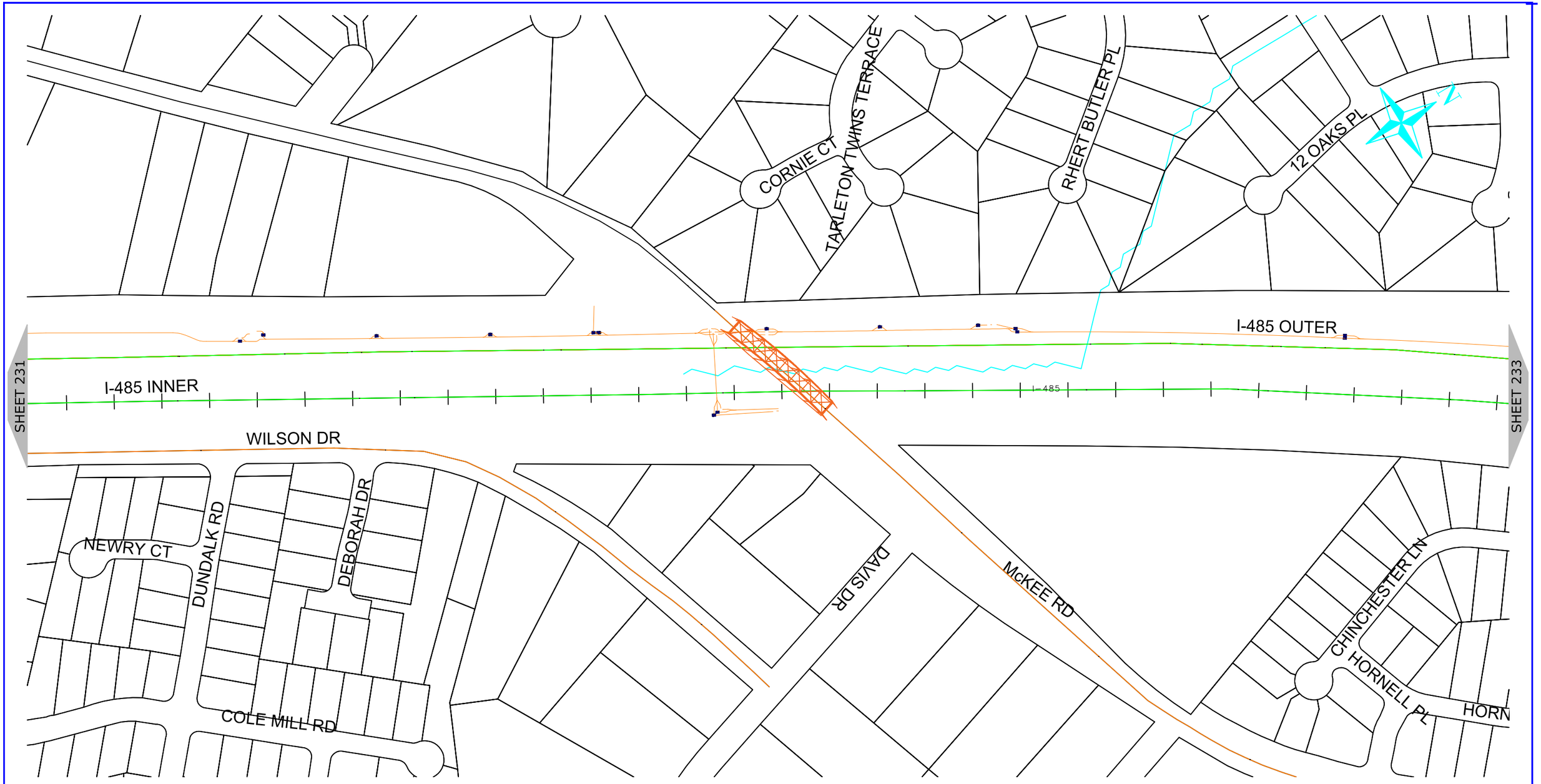
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 231

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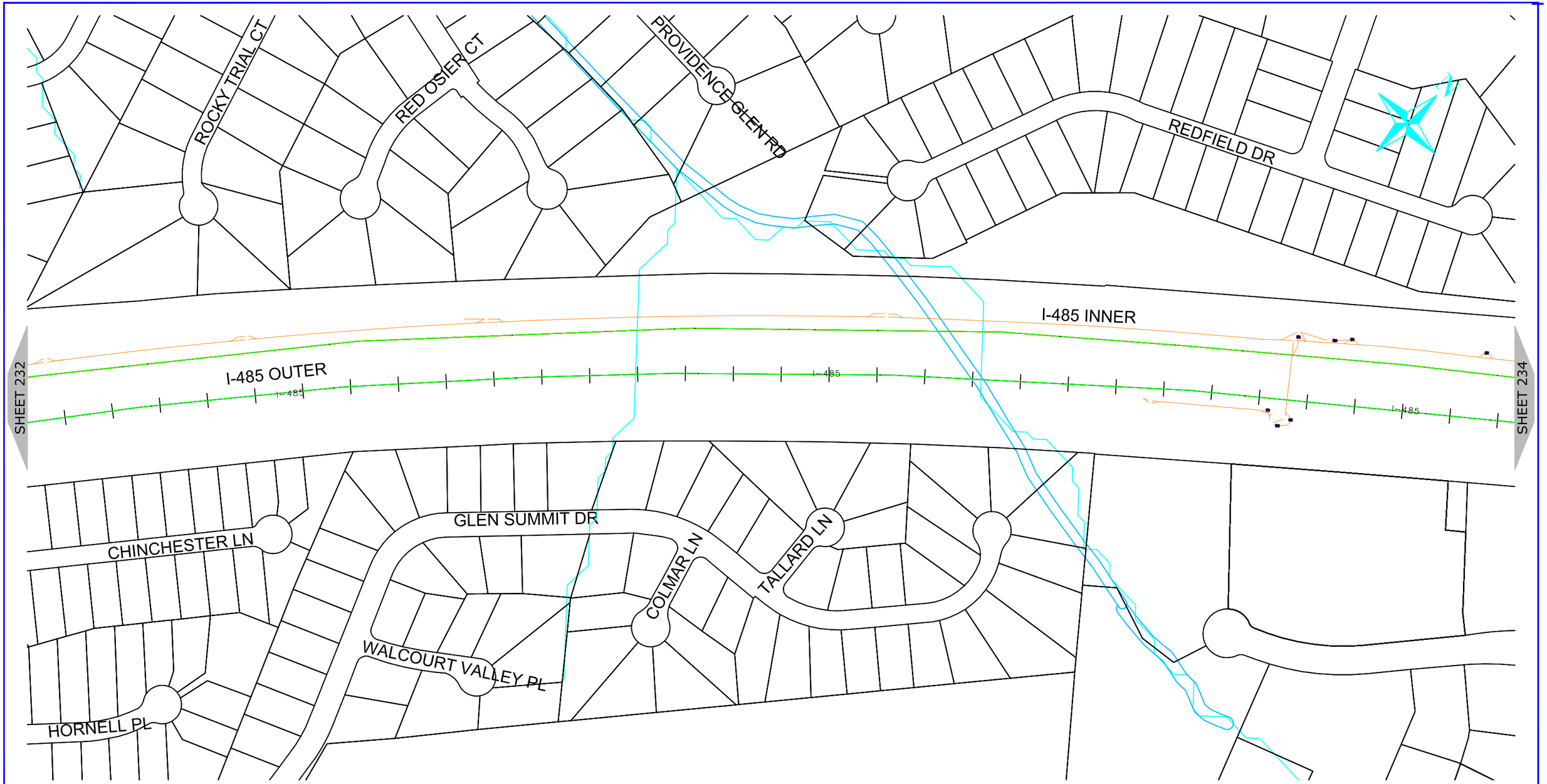
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 232

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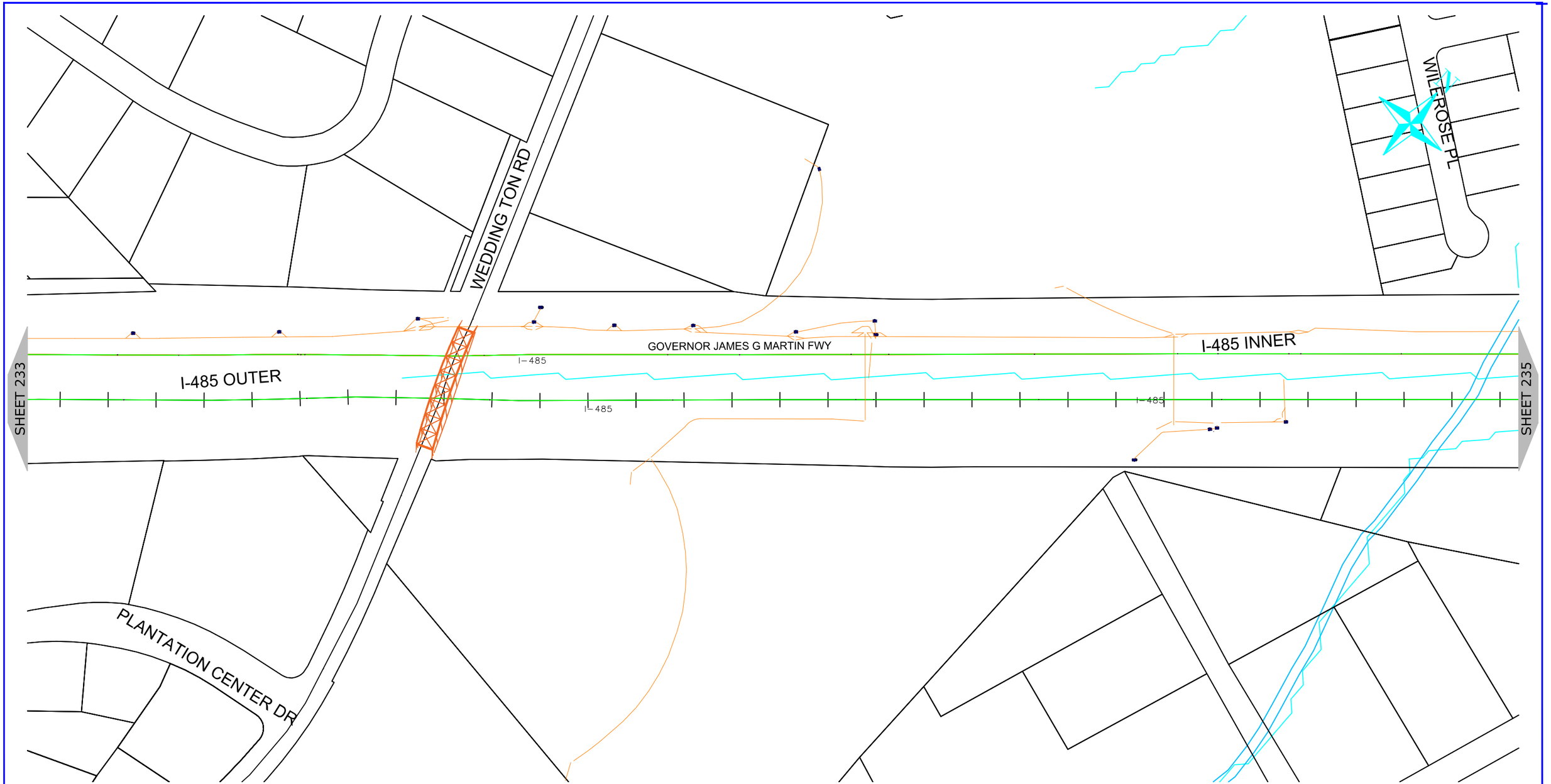
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 233

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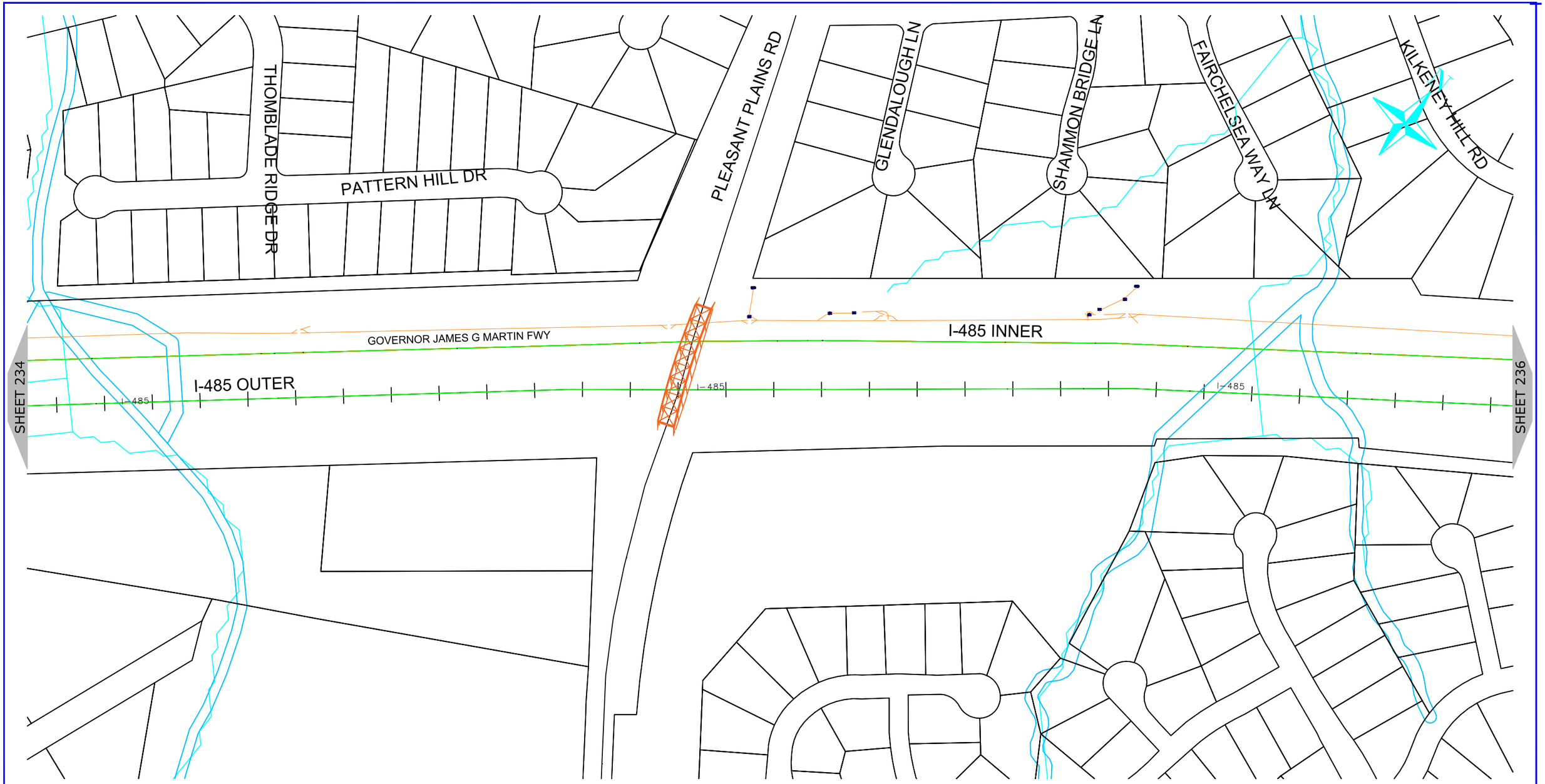
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DATE:	12-05-2021
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PROJECT NAME: US-74

SHEET NAME: 234

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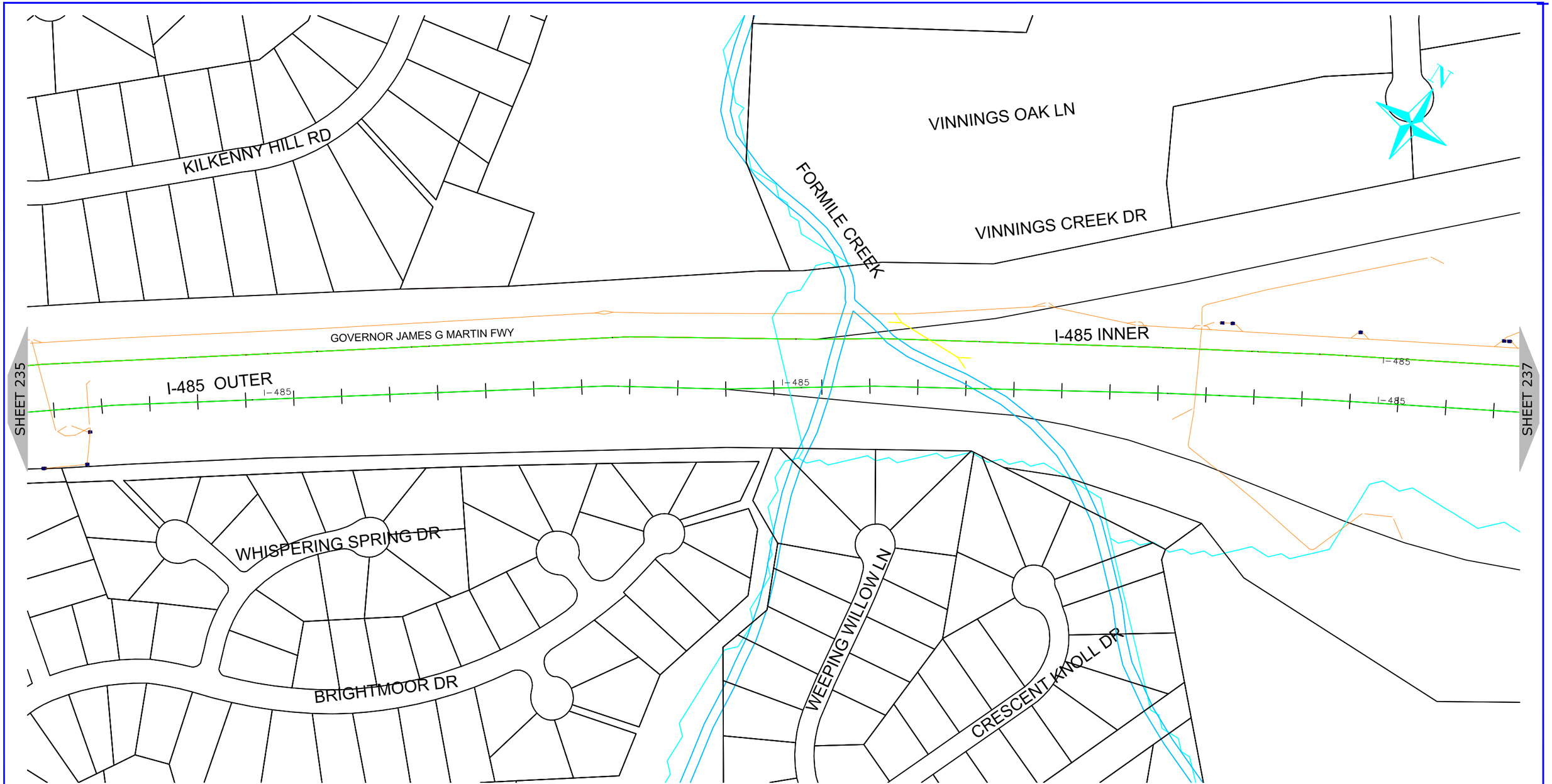
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 235

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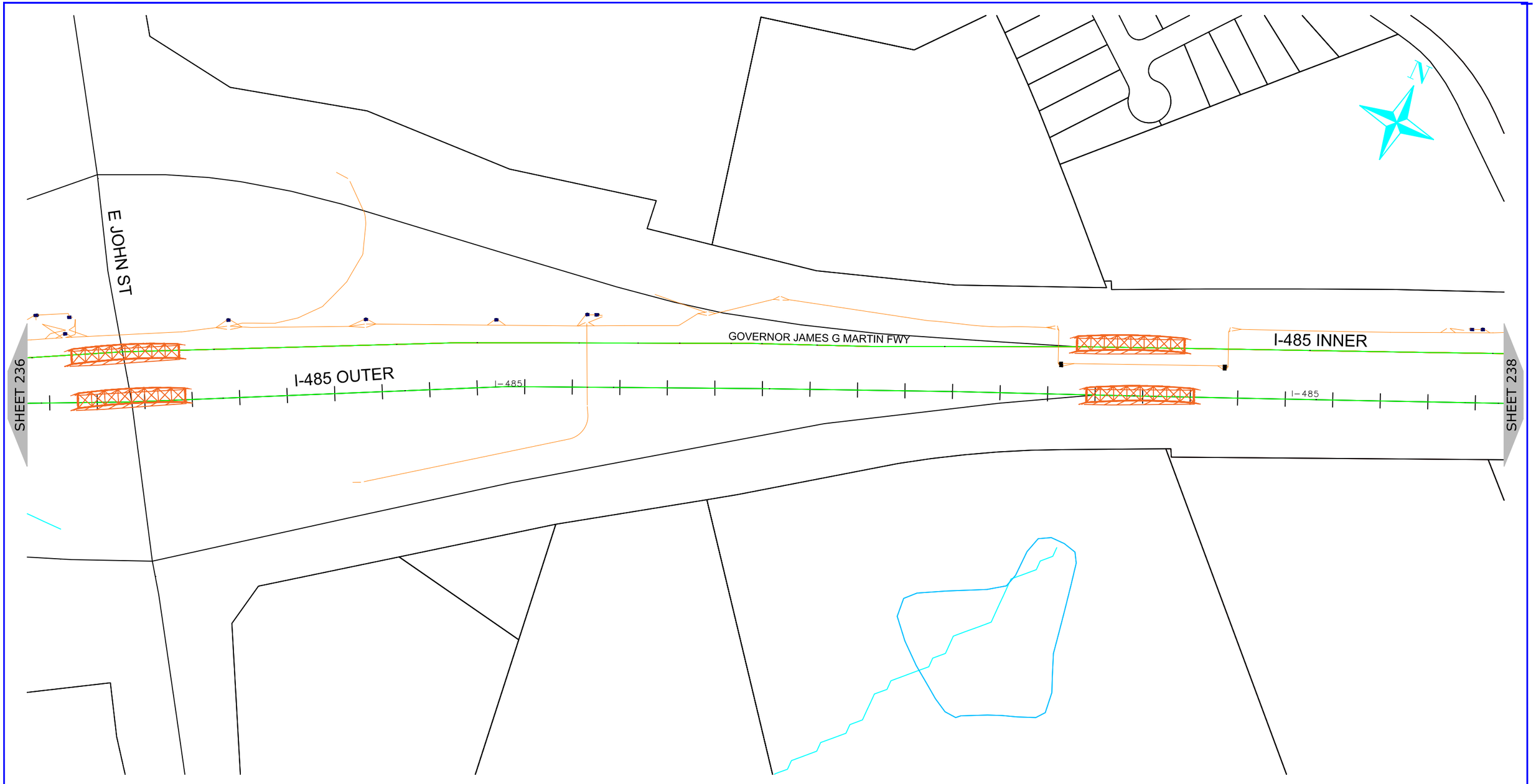
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 236

SHEET: 236

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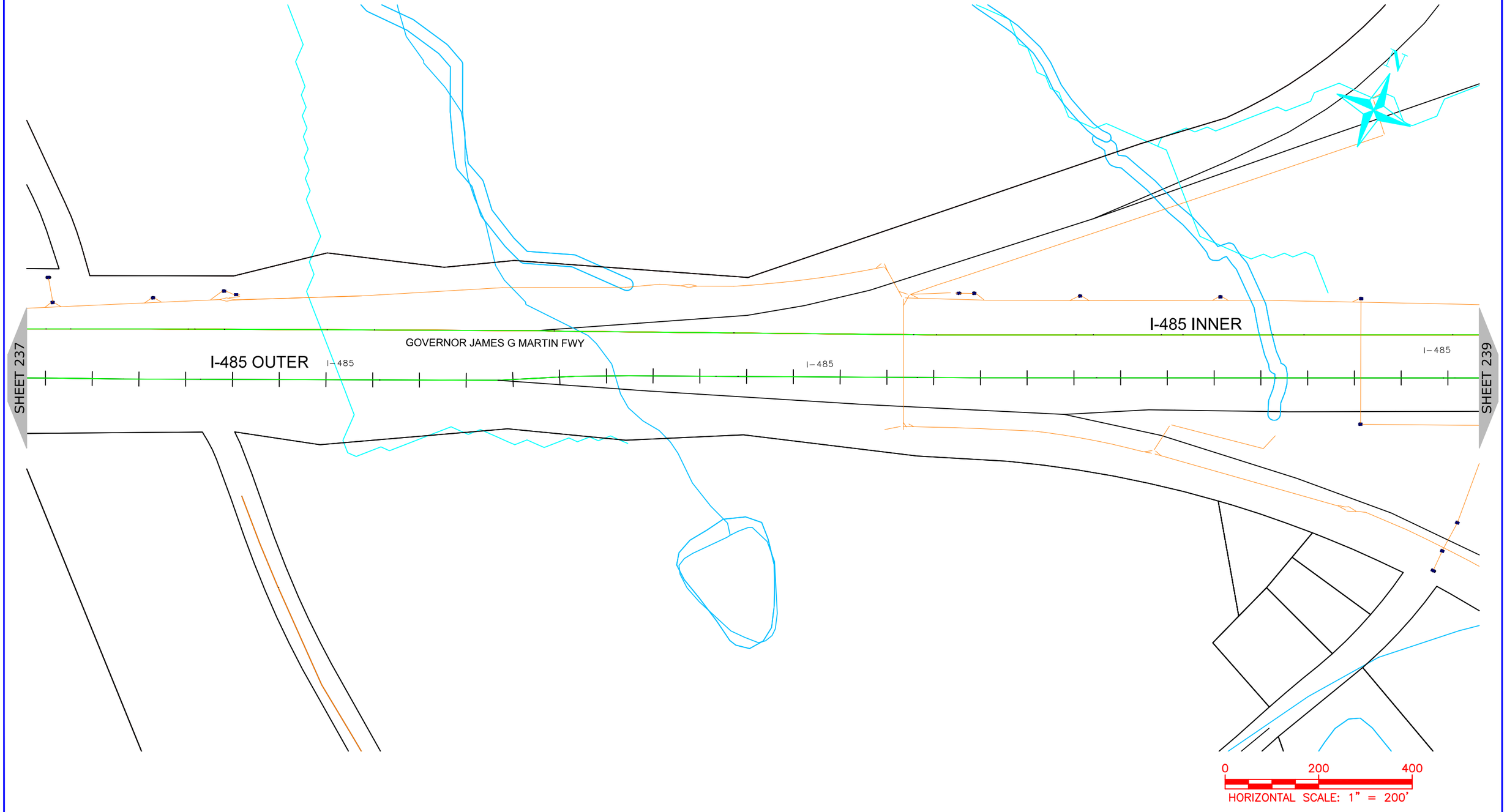
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 237

SHEET: 237

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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 238

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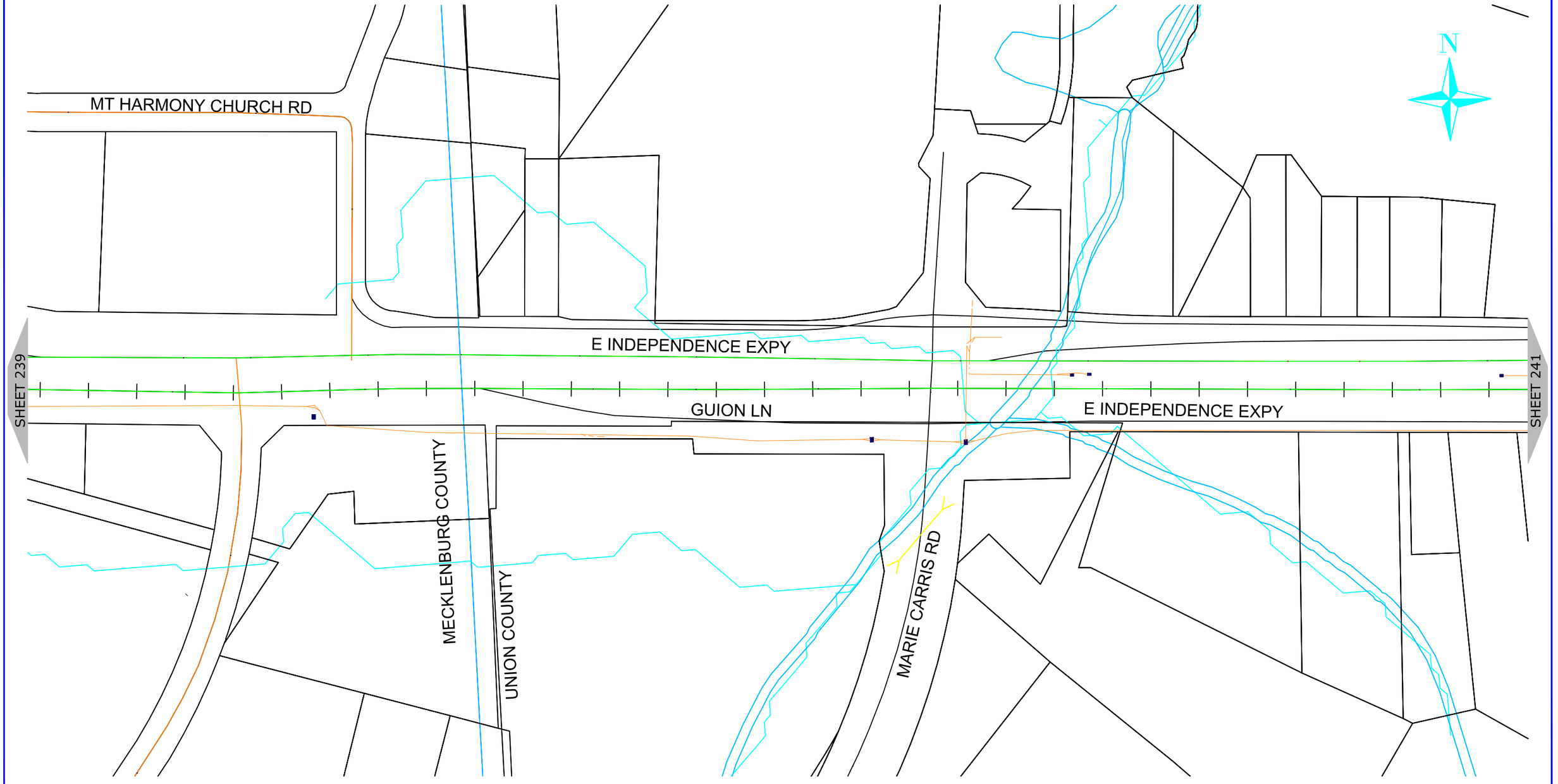
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 239

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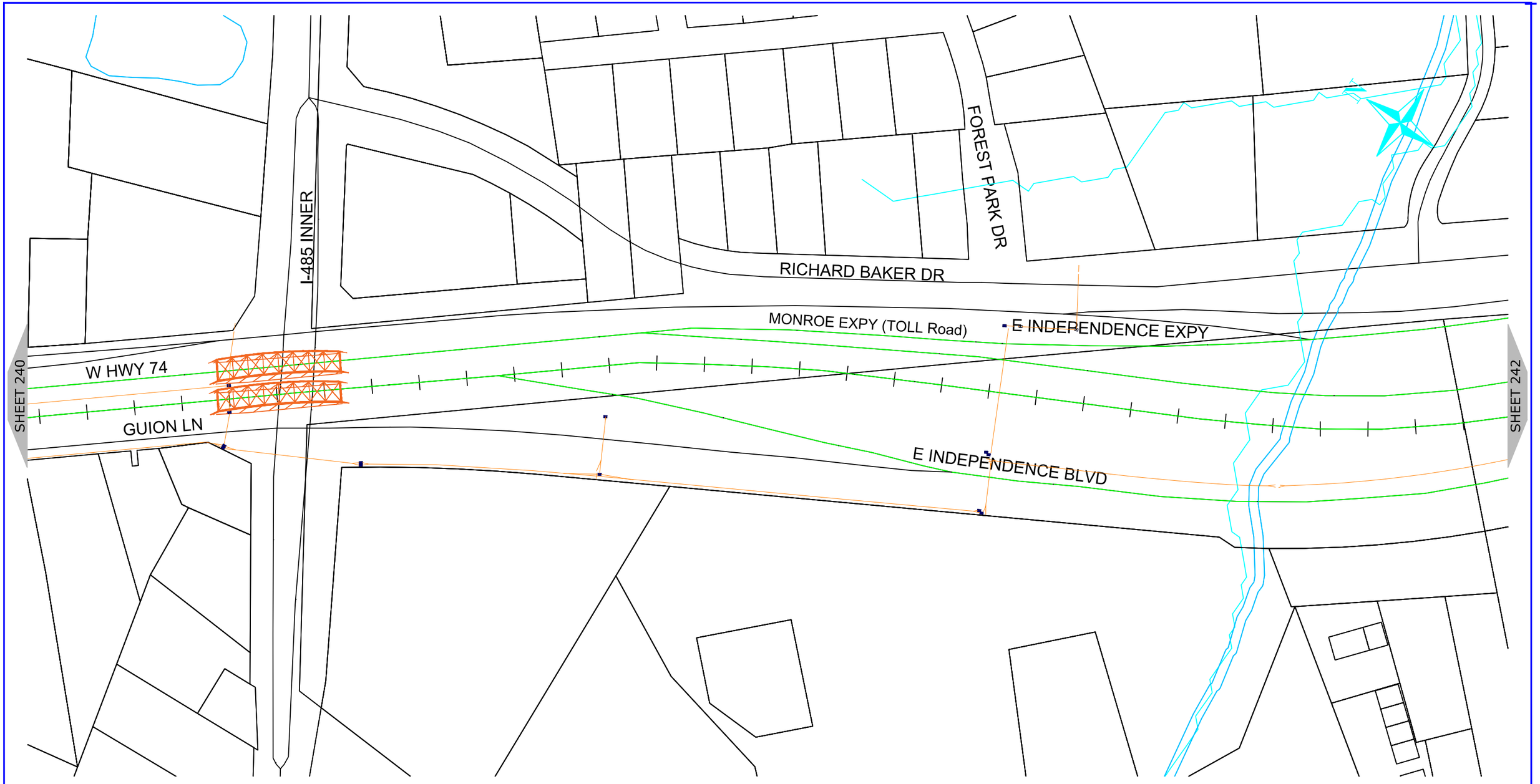
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 240

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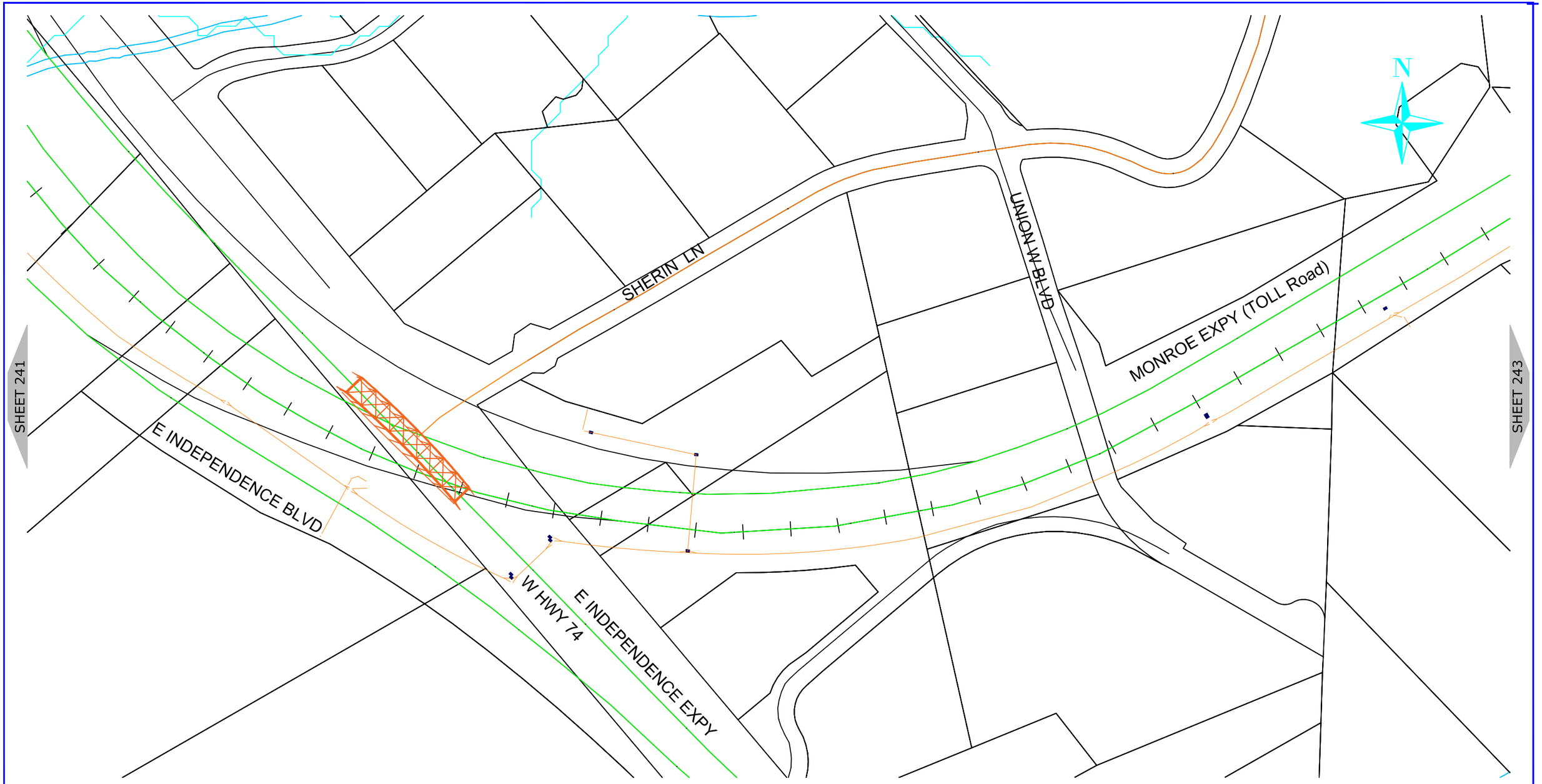
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 241

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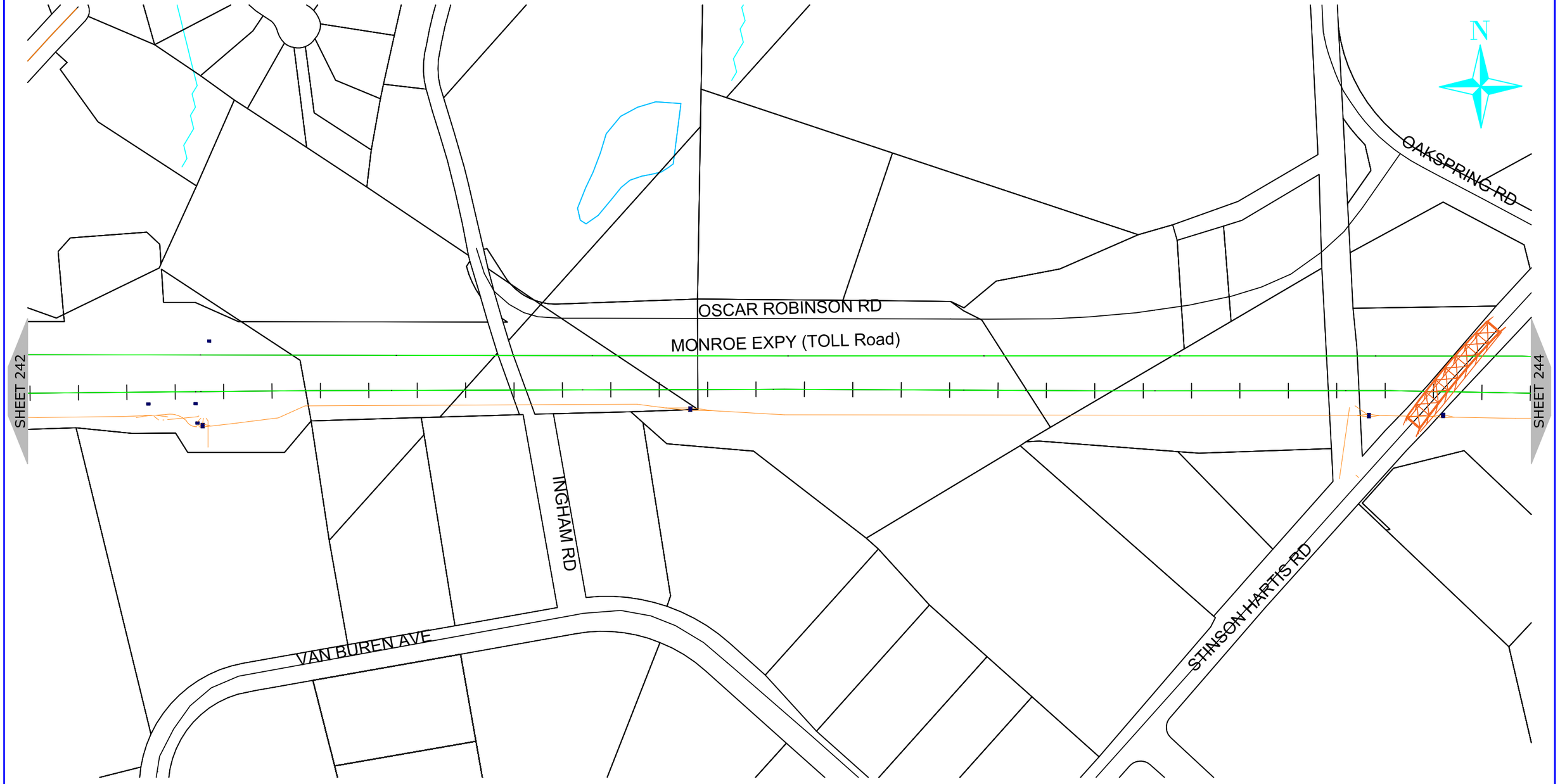
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 242

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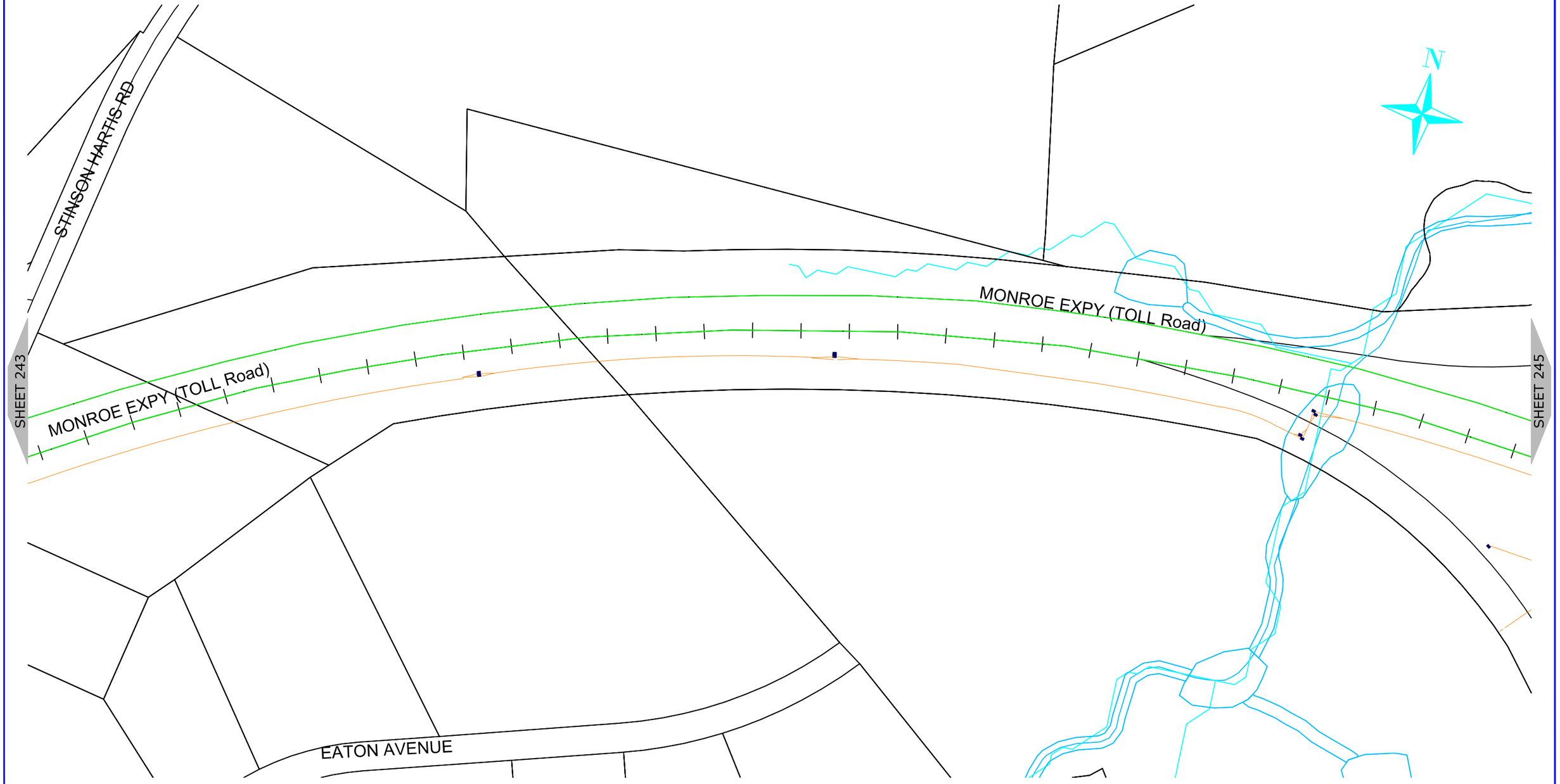
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 243

SHEET: 243

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 244

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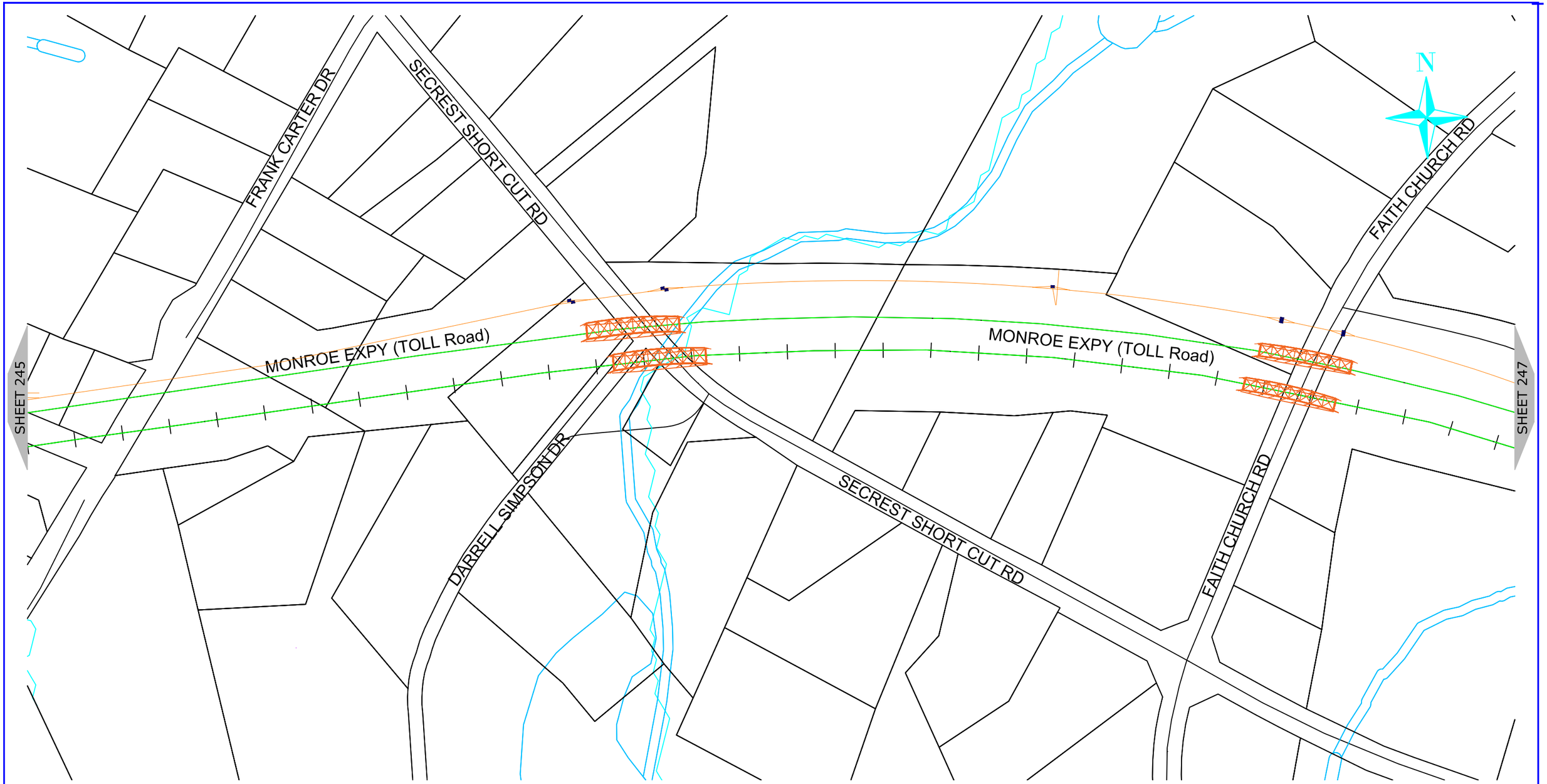
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 245

SHEET: 245

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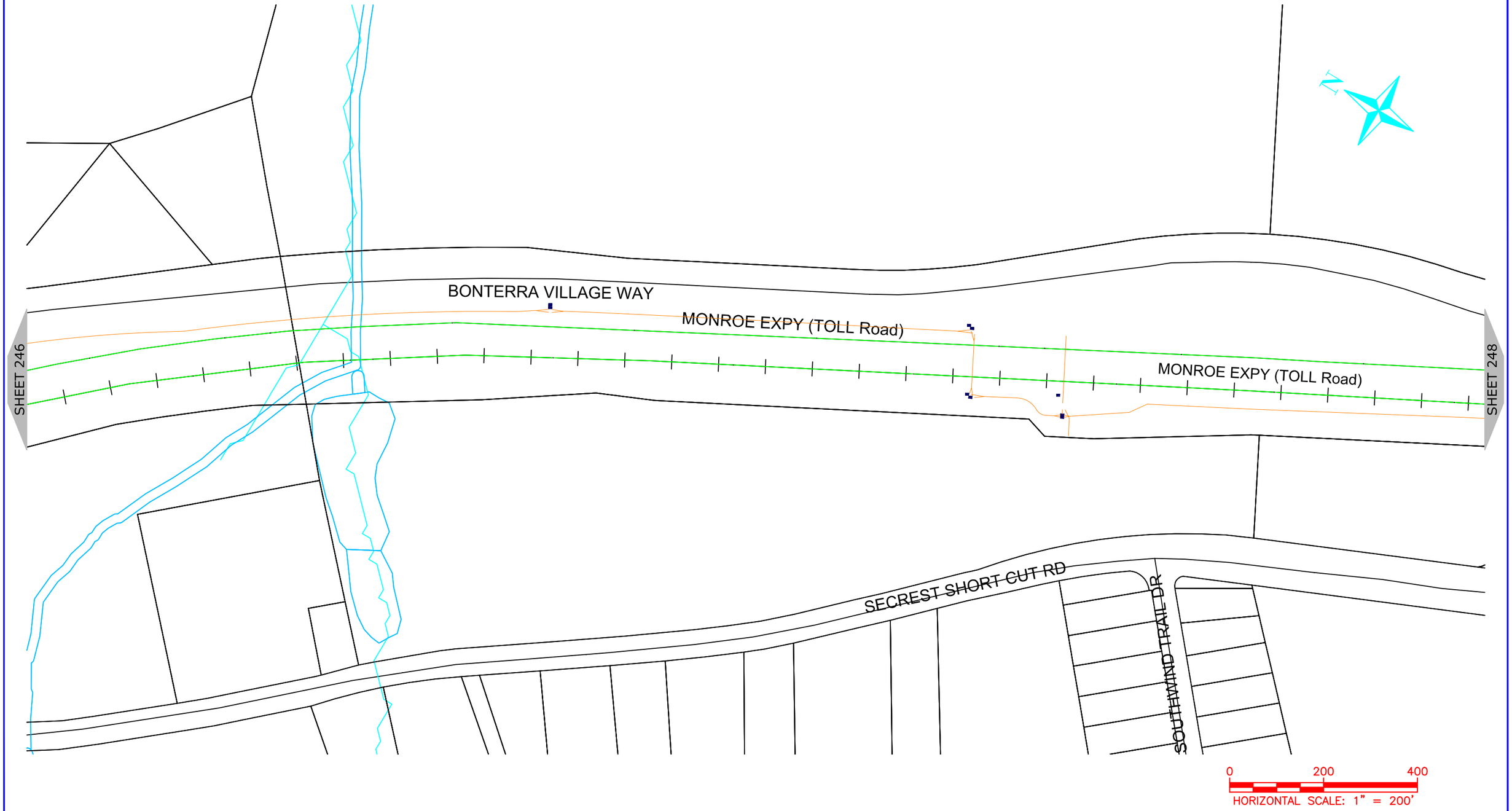
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 246

SHEET: 246

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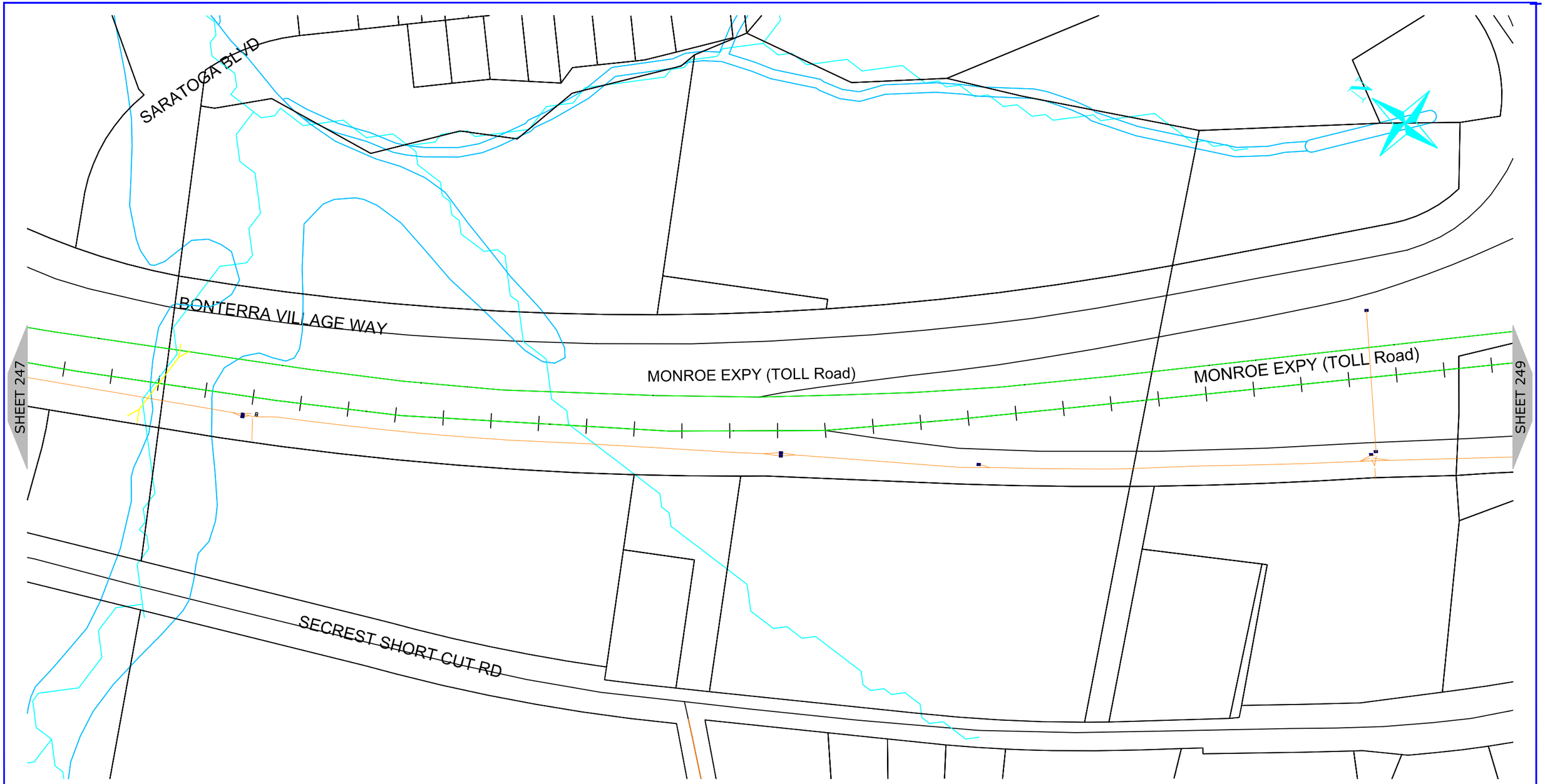
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 247

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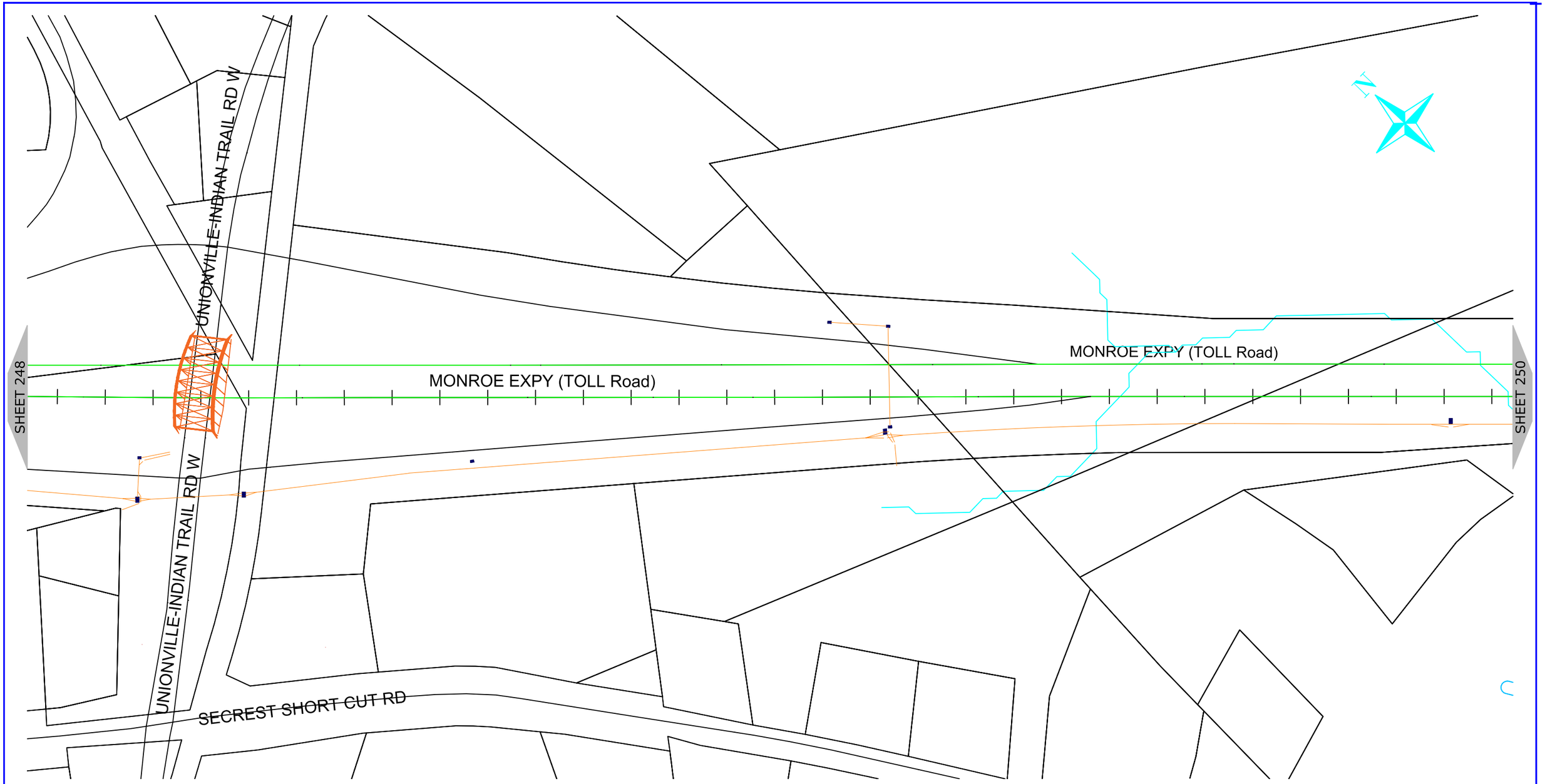
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

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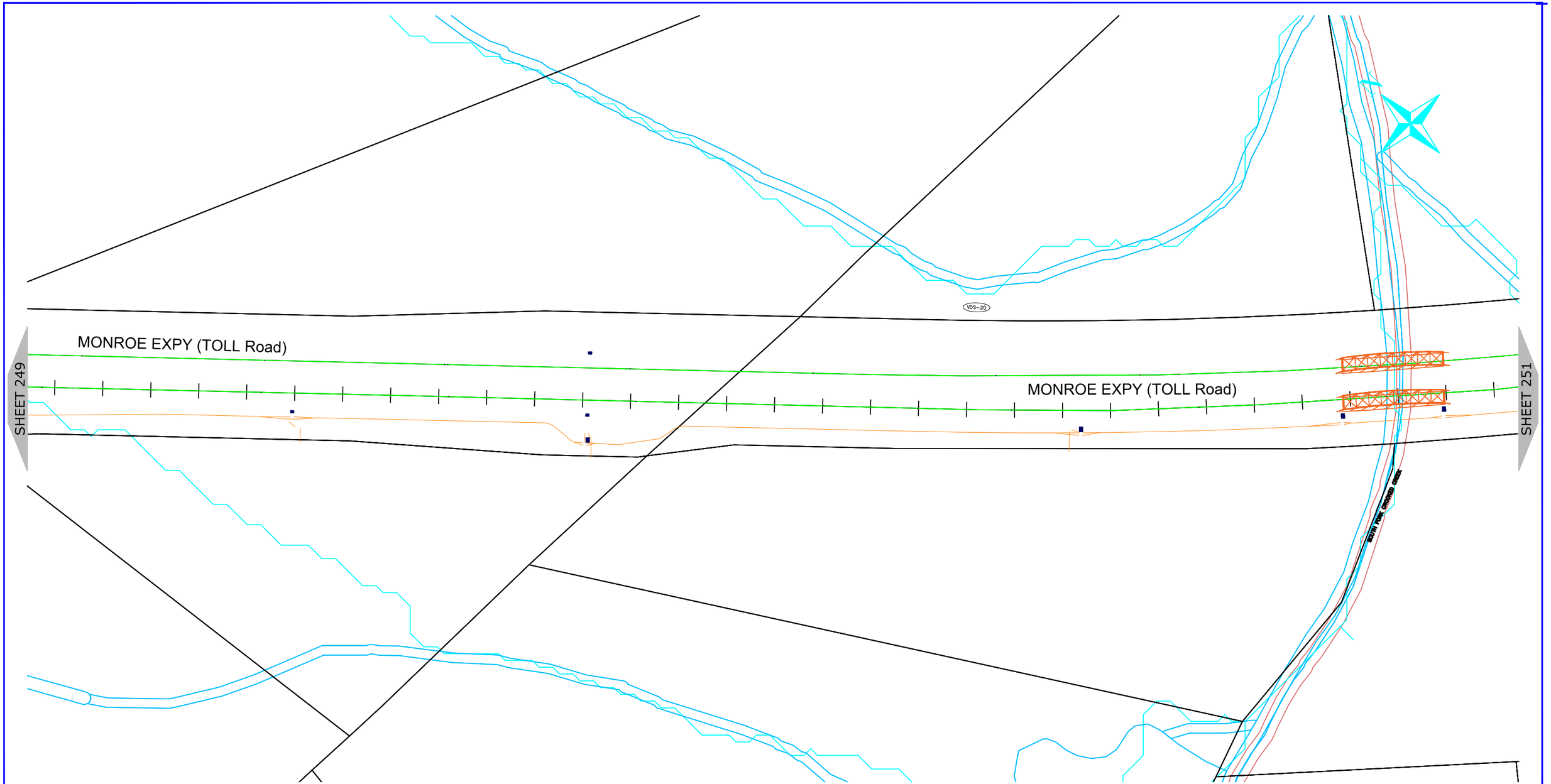
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 249

SHEET: 249

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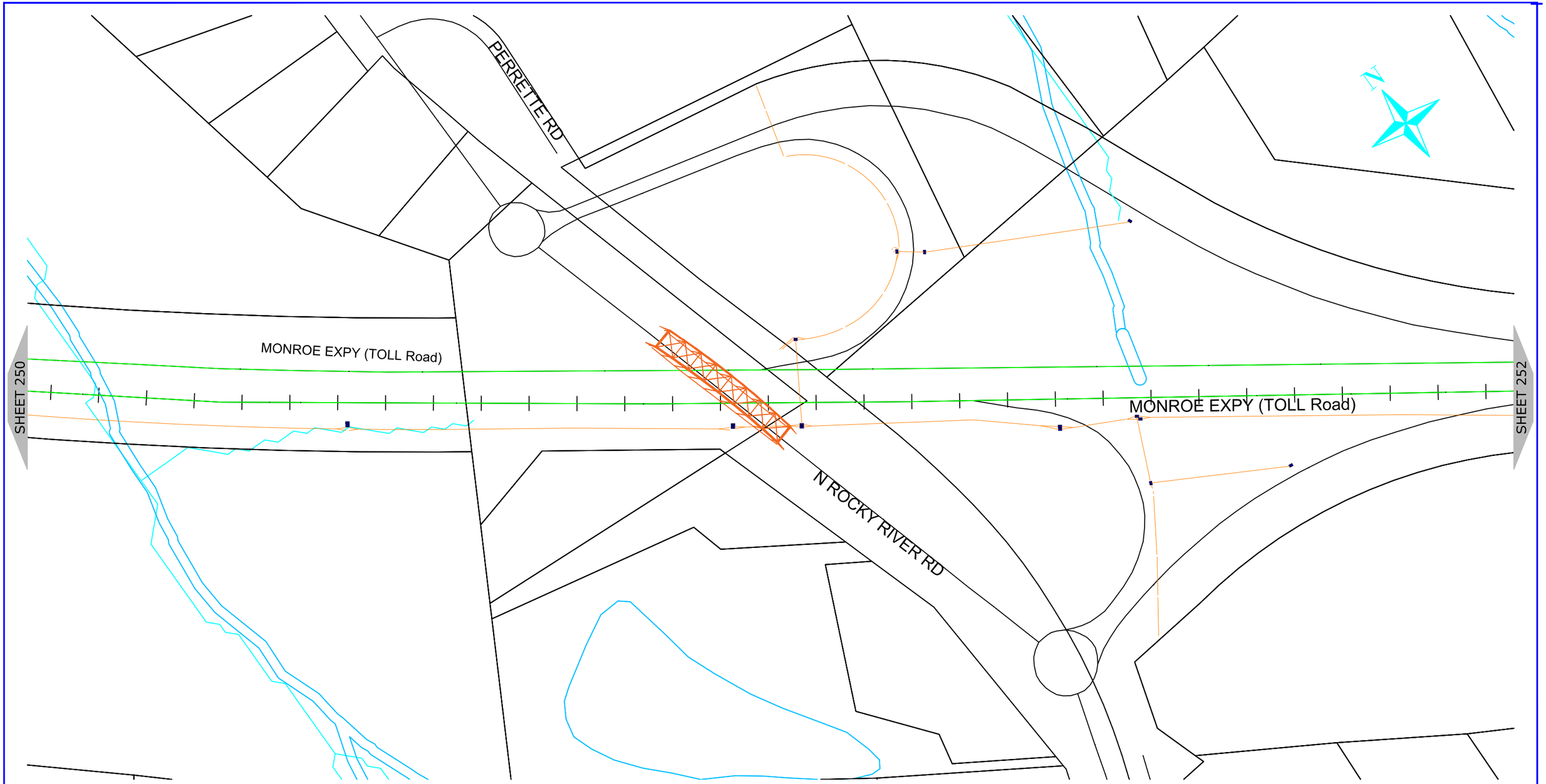
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 250

SHEET: 250

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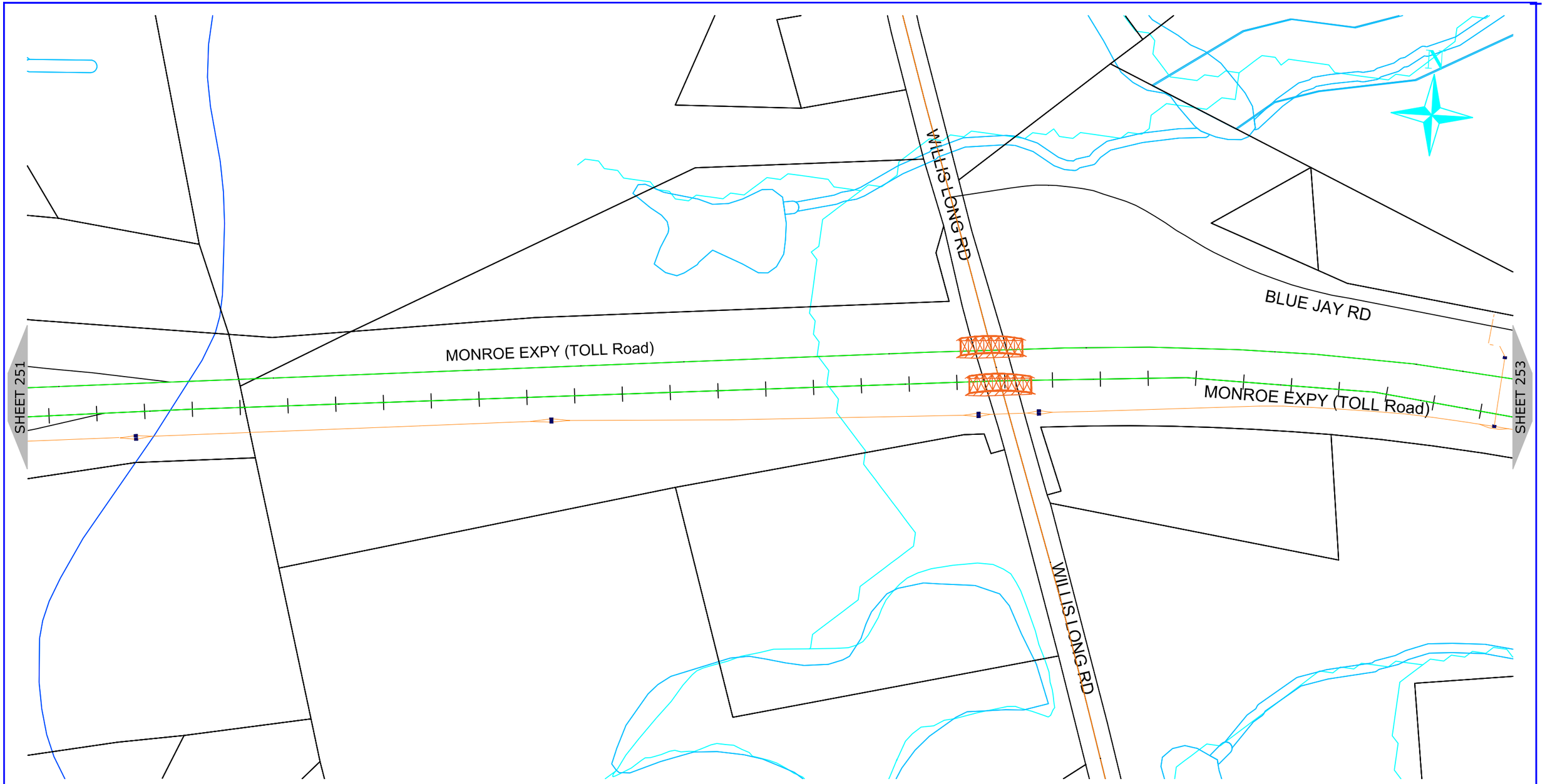
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 251

SHEET: 251

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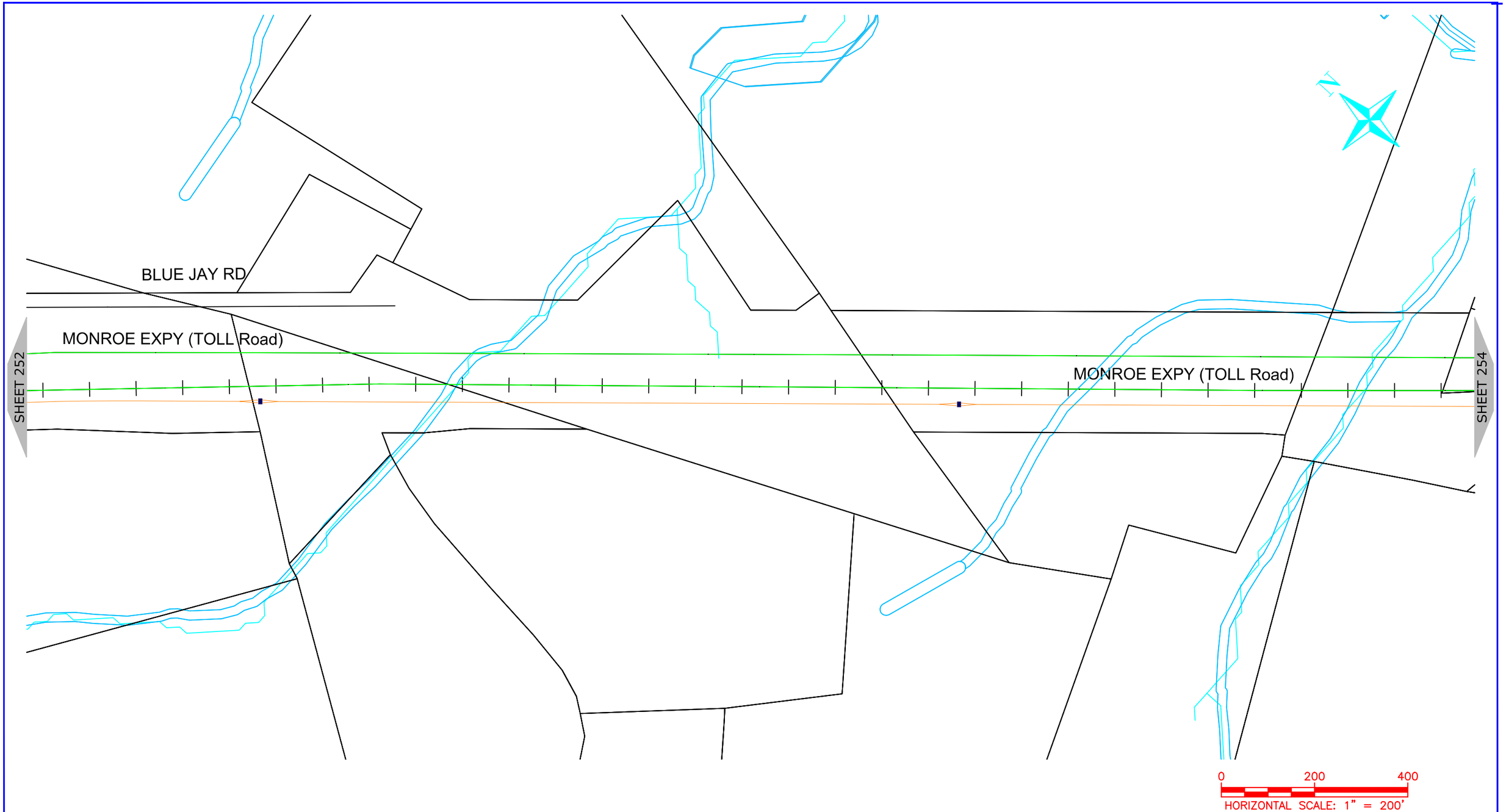
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
252

SHEET:
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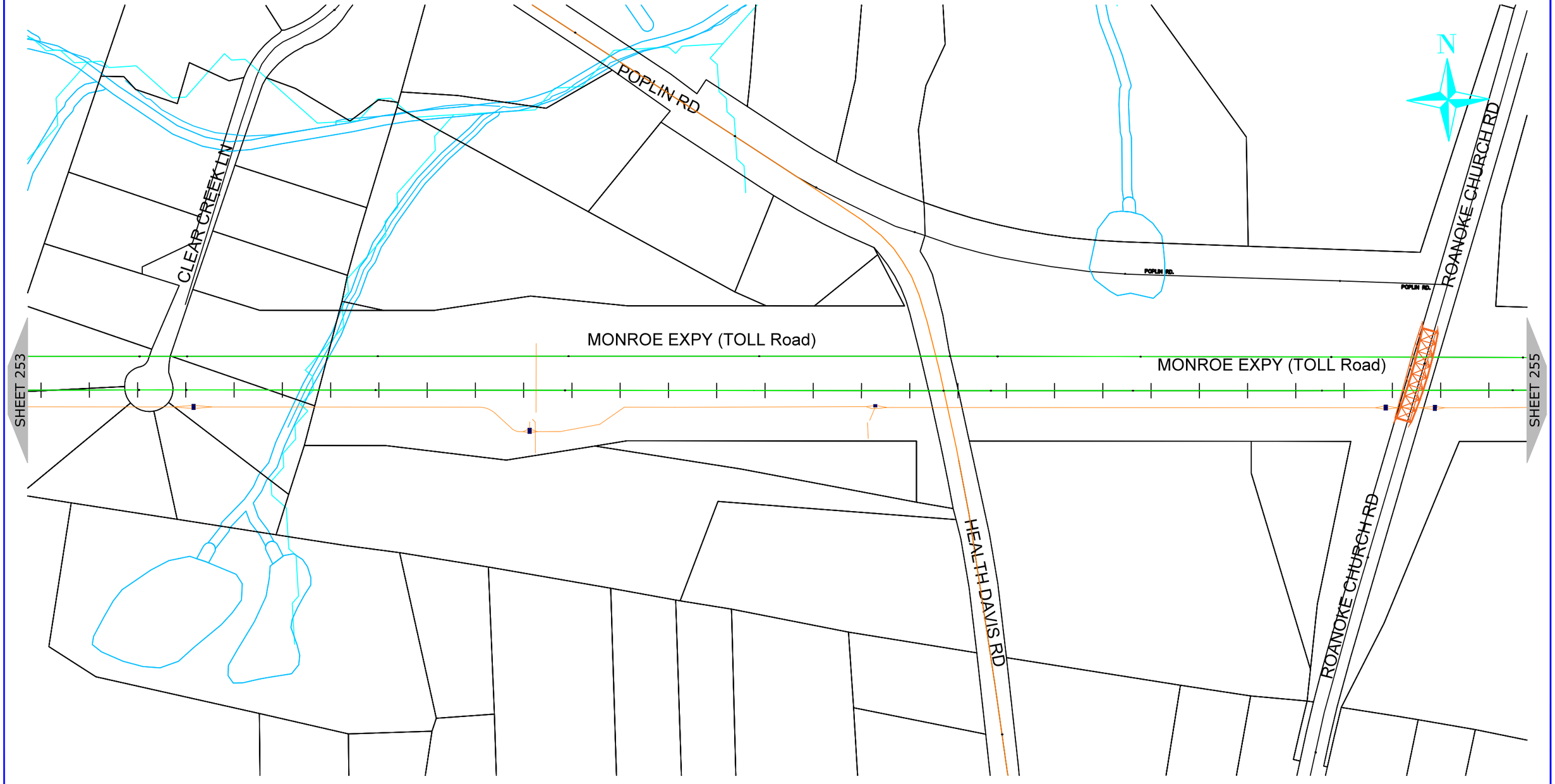
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 253

SHEET: 253

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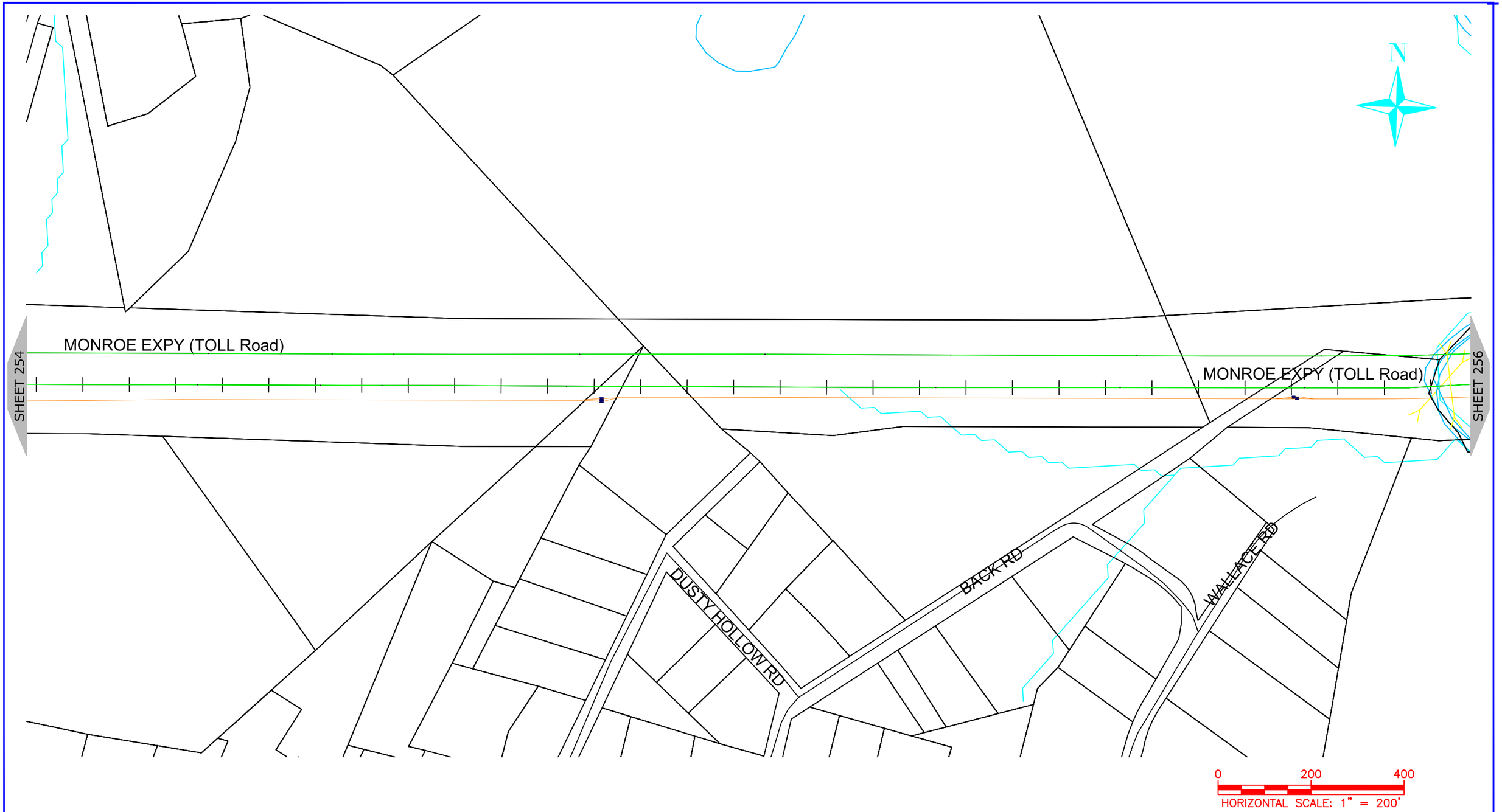
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 254

SHEET: 254

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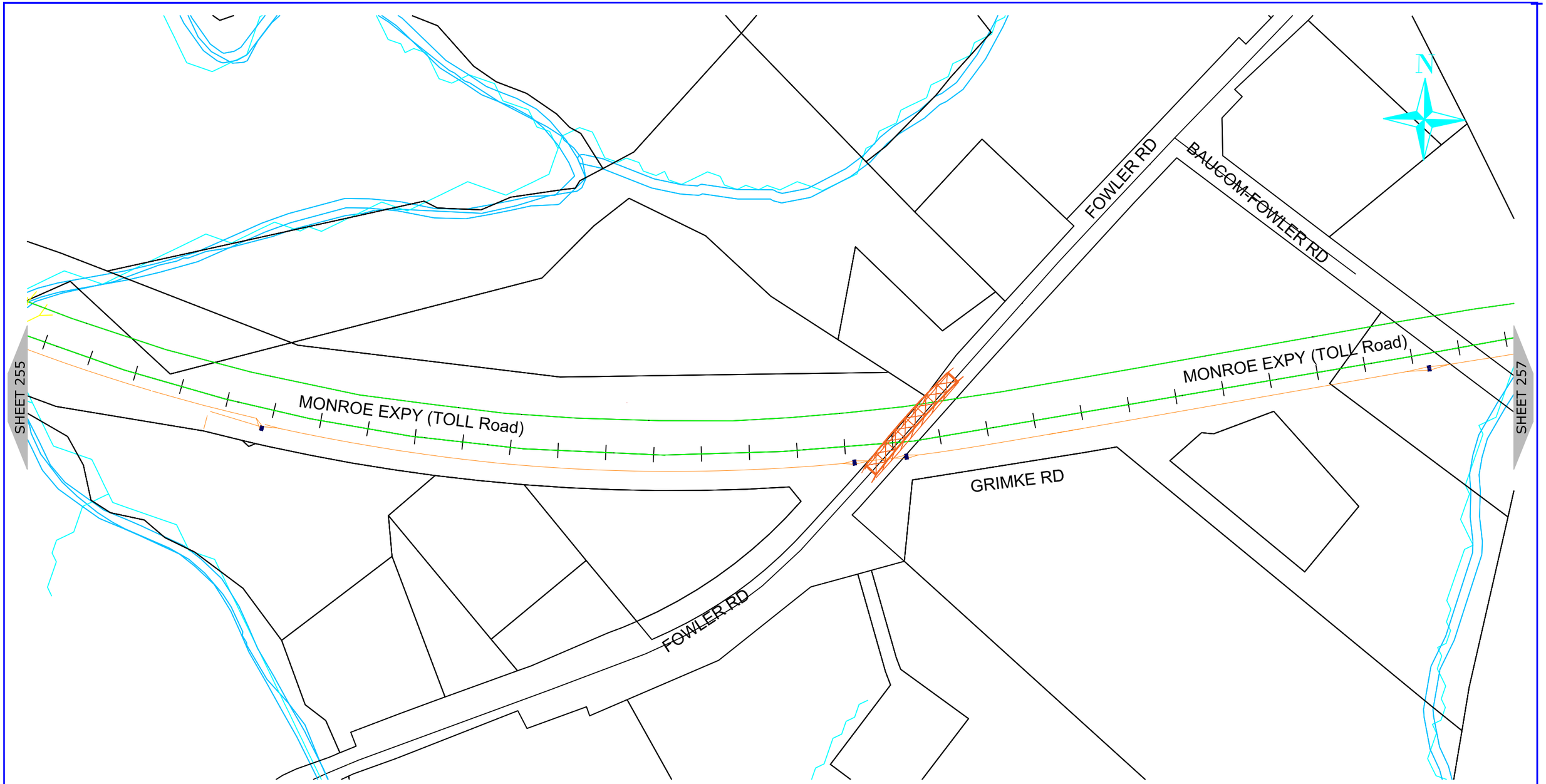
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 255

SHEET: 255

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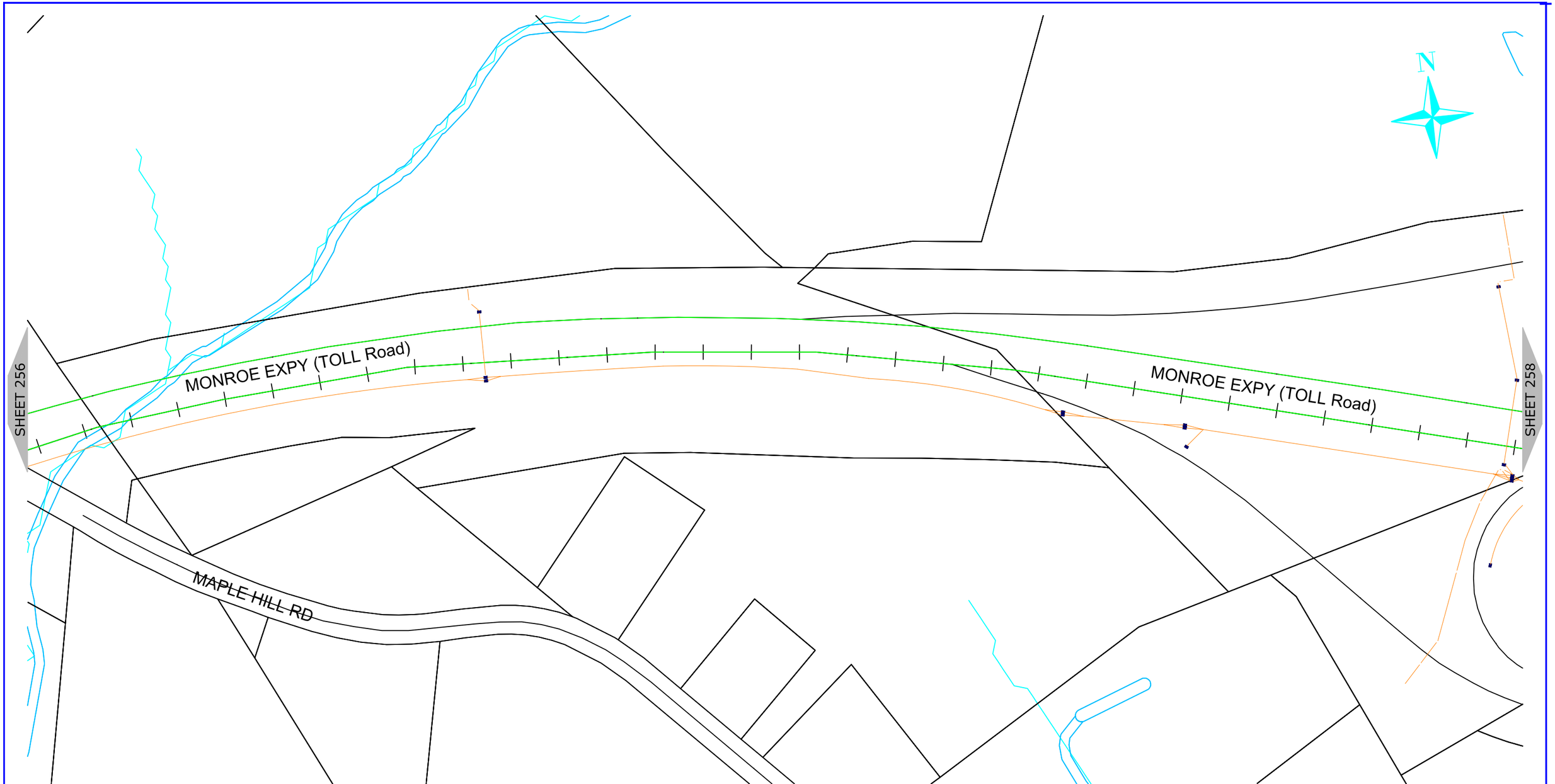
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
256

SHEET:
256

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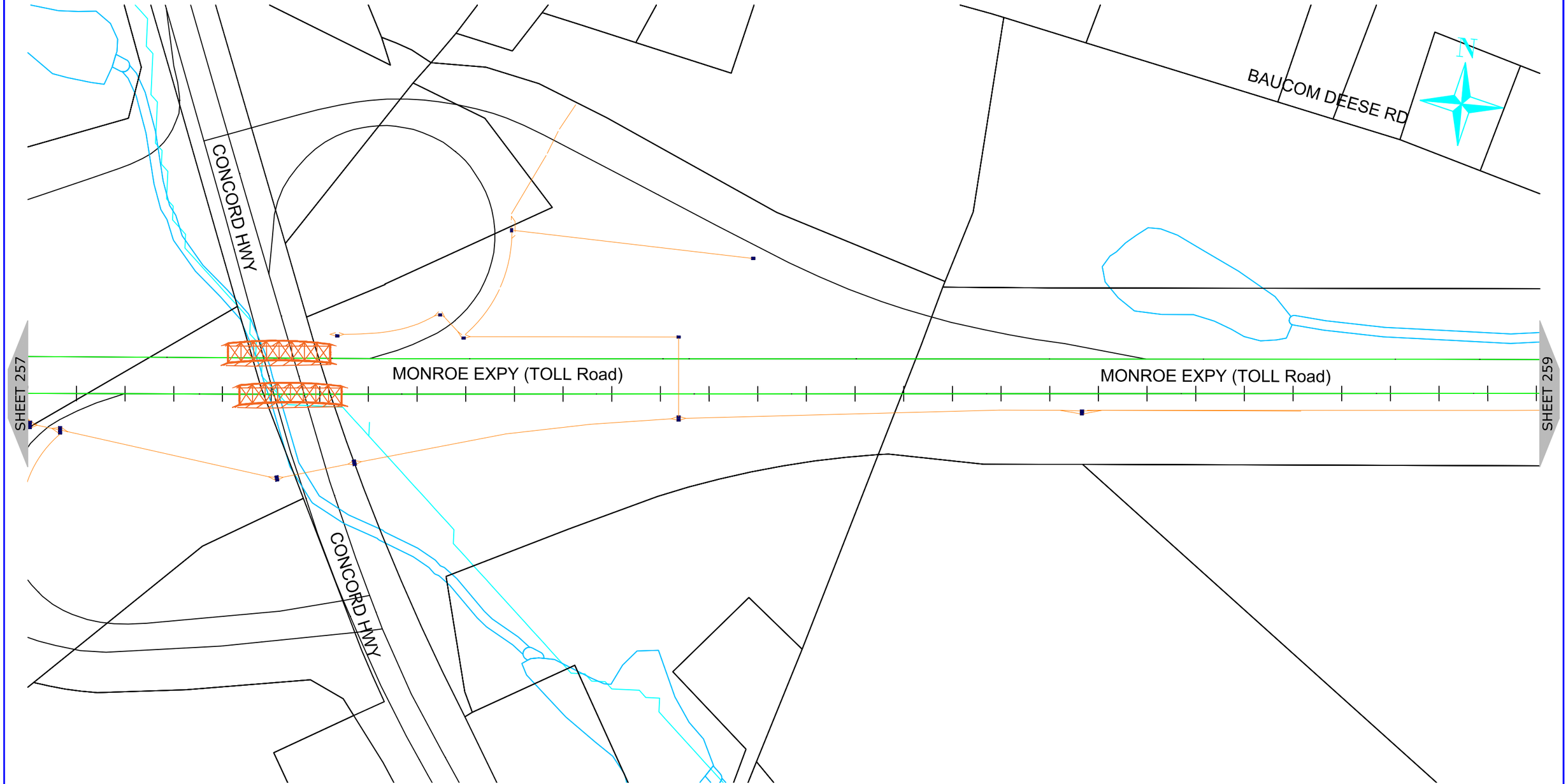
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 257

SHEET: 257

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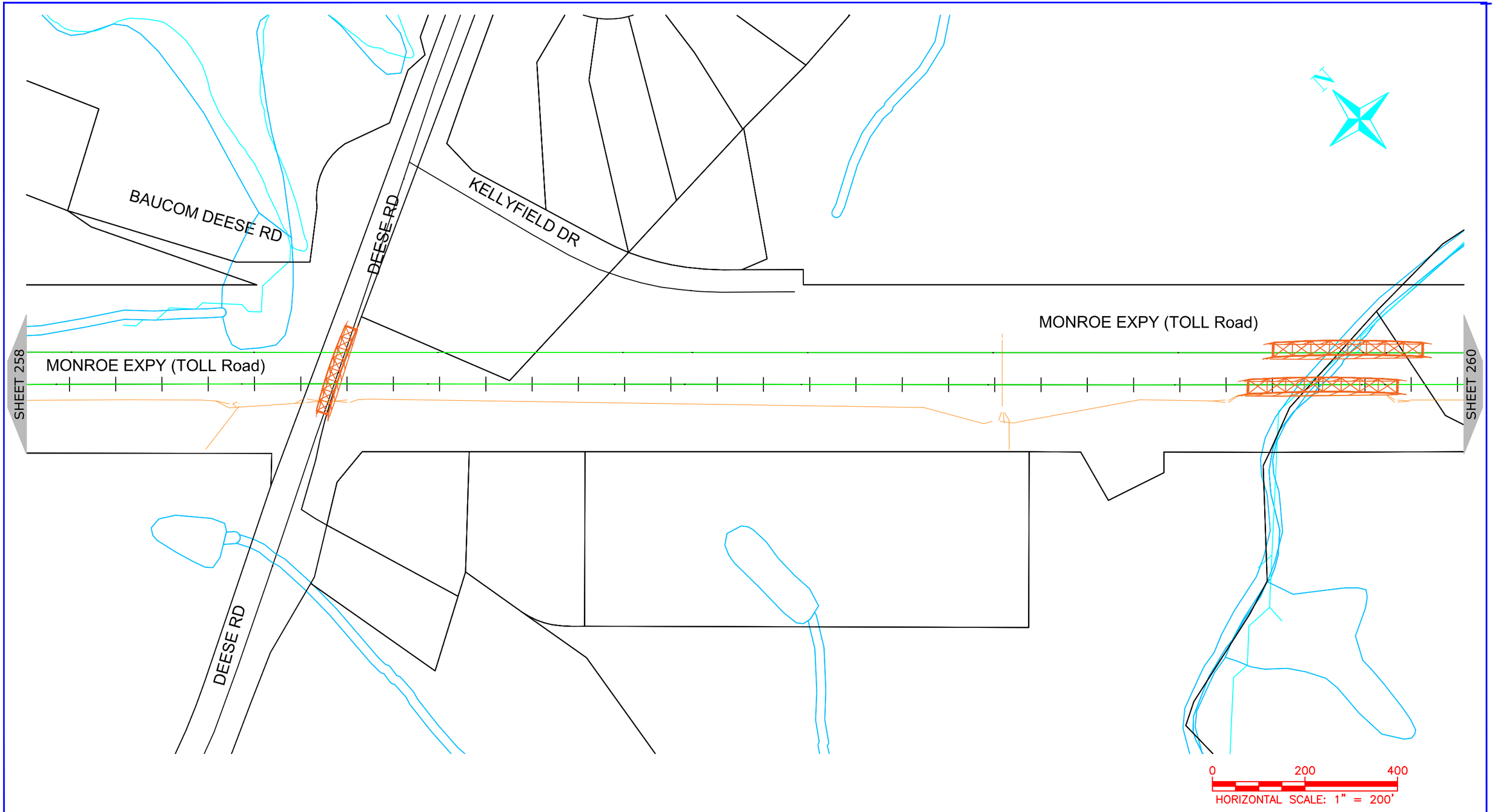
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 258

SHEET: 258

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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 259

SHEET: 259

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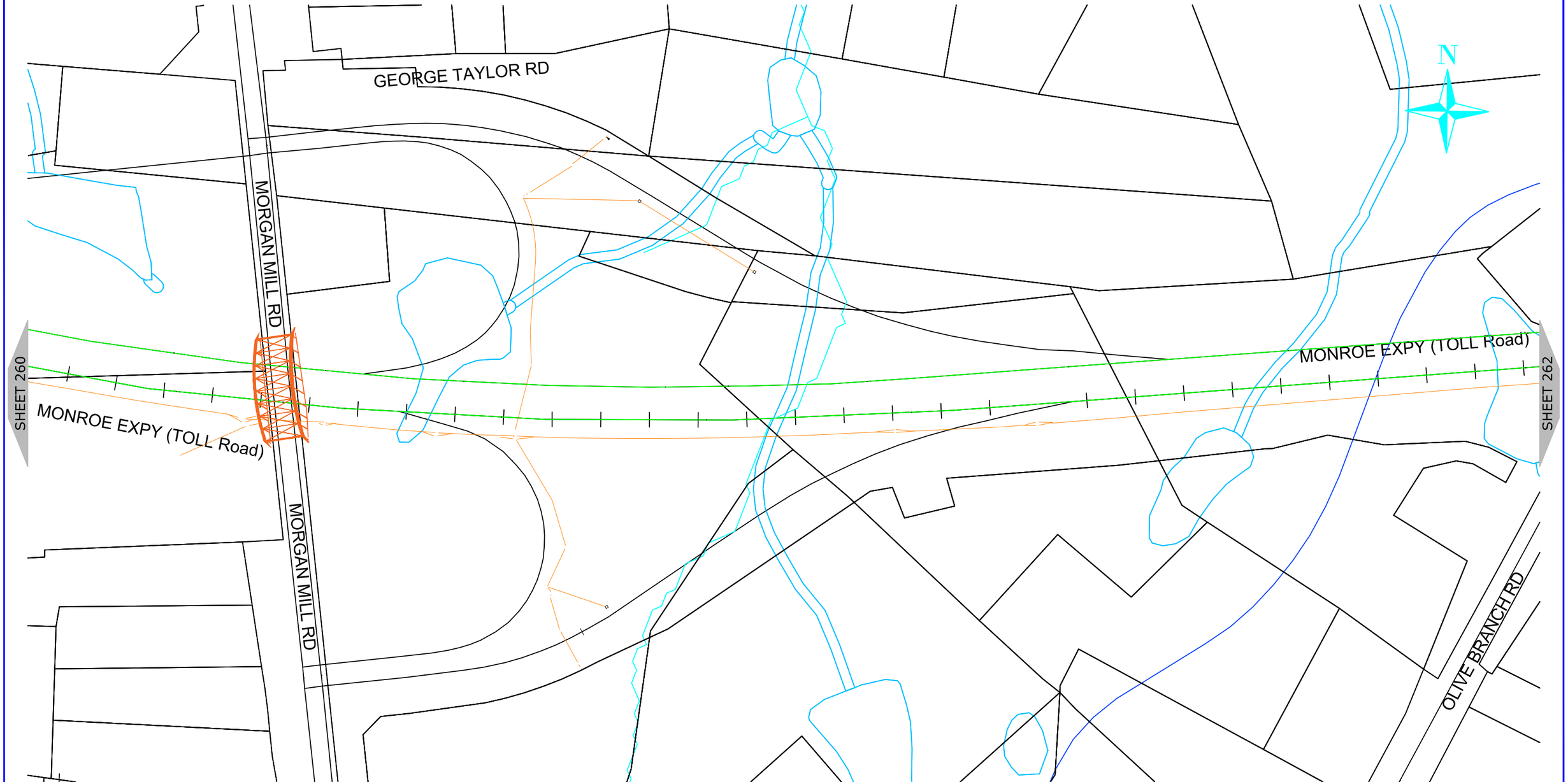
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
260

SHEET:
260

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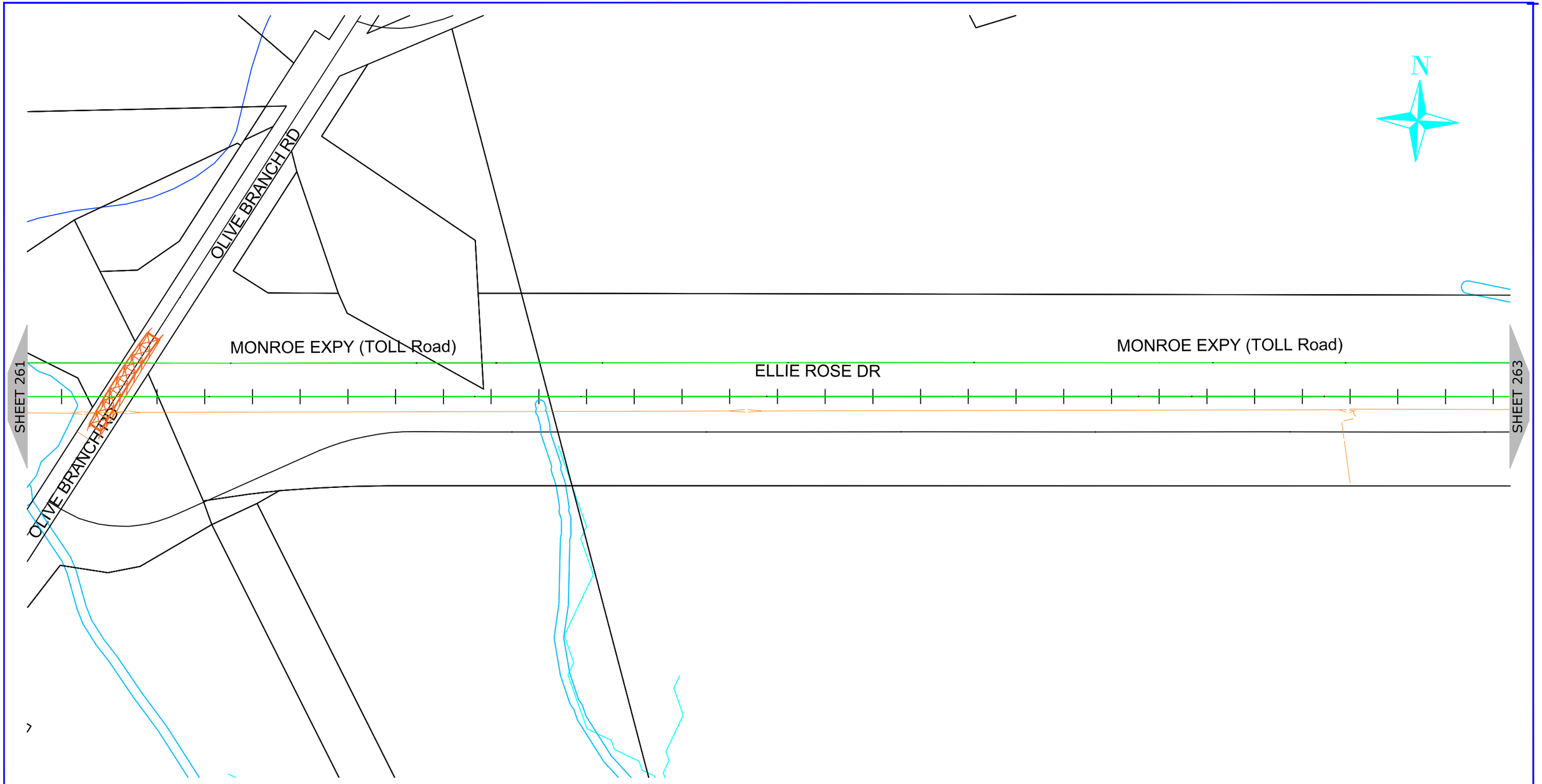
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 261

SHEET: 261

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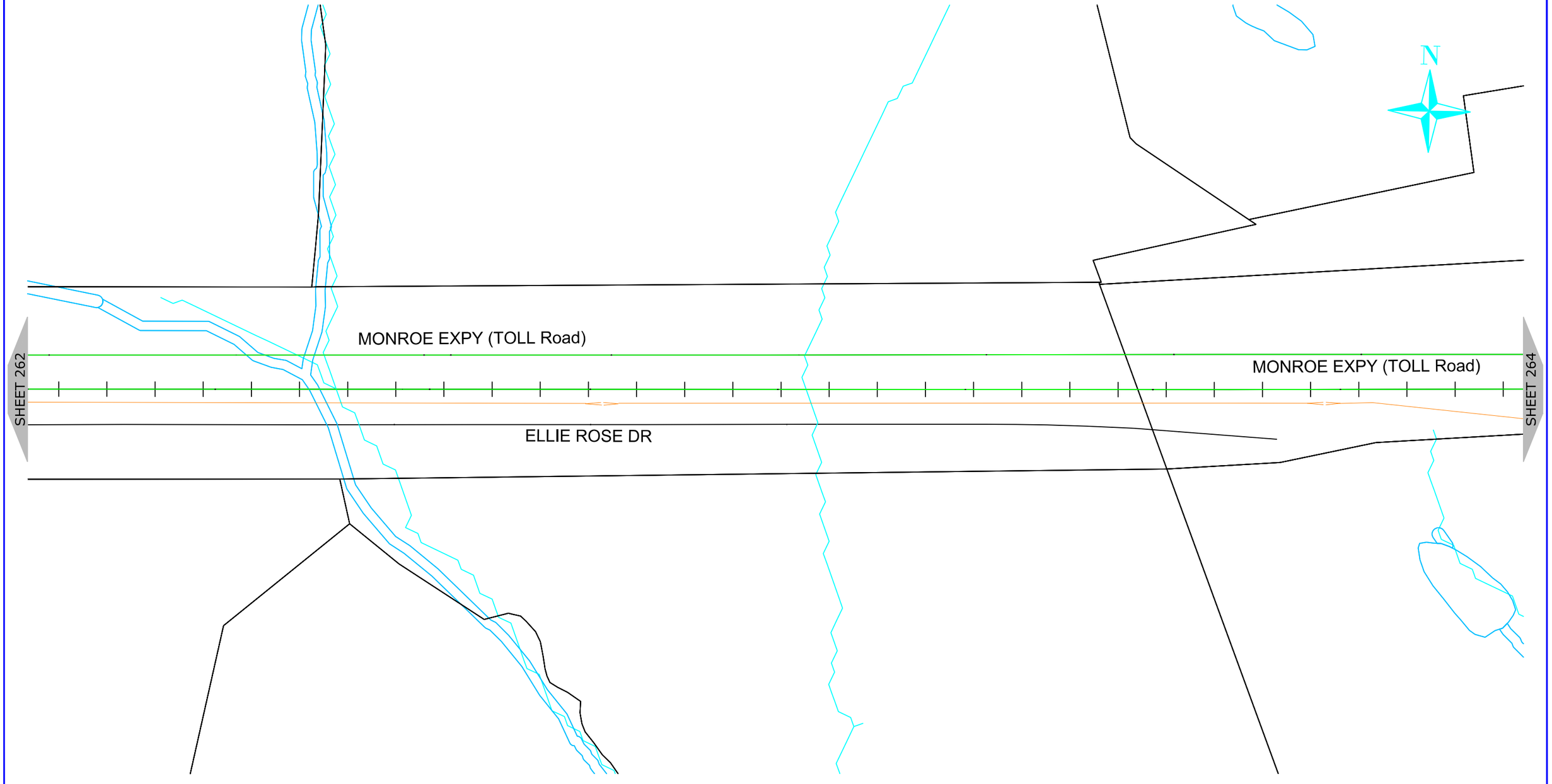
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 262

SHEET: 262

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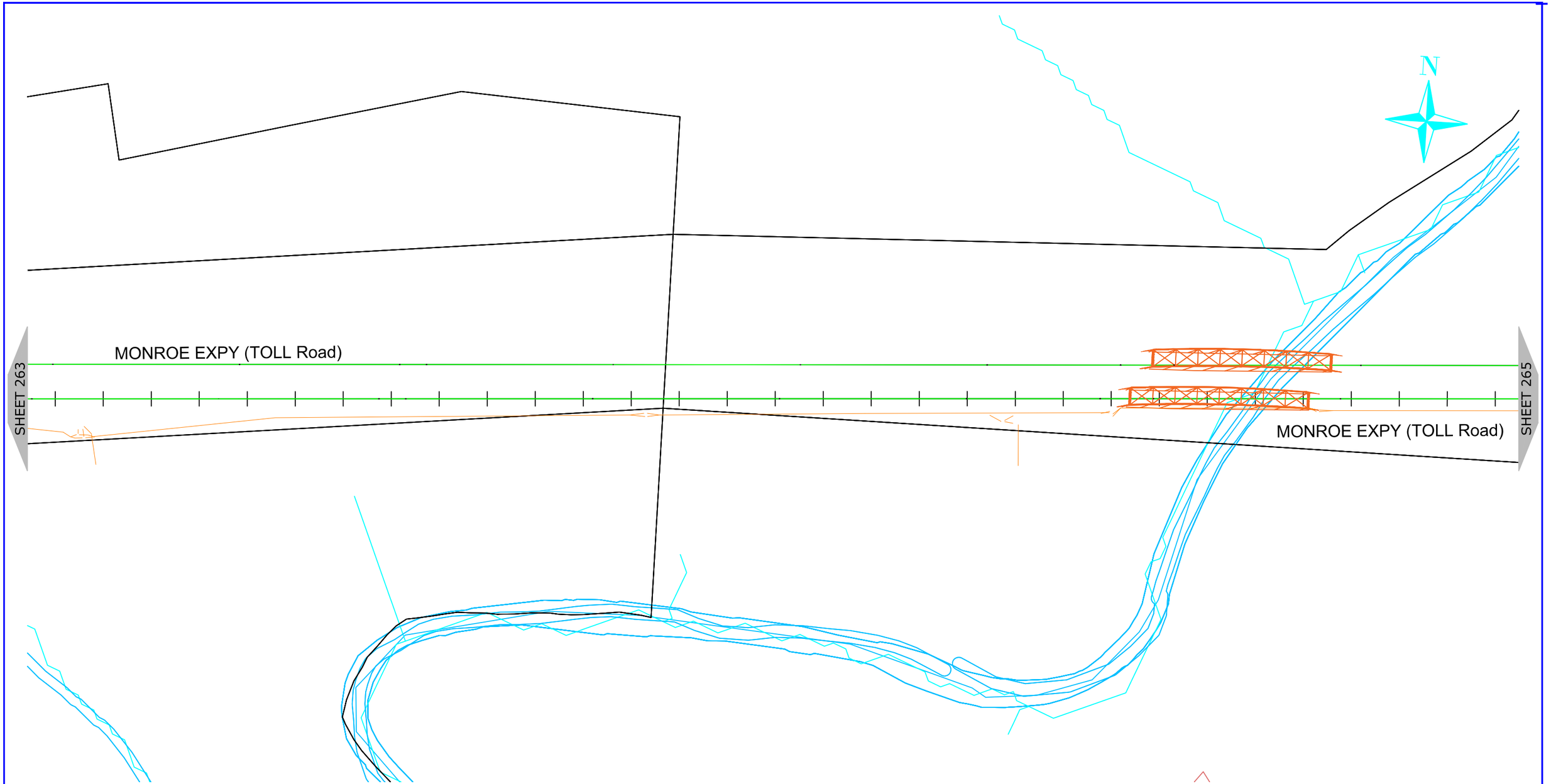
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 263

SHEET: 263

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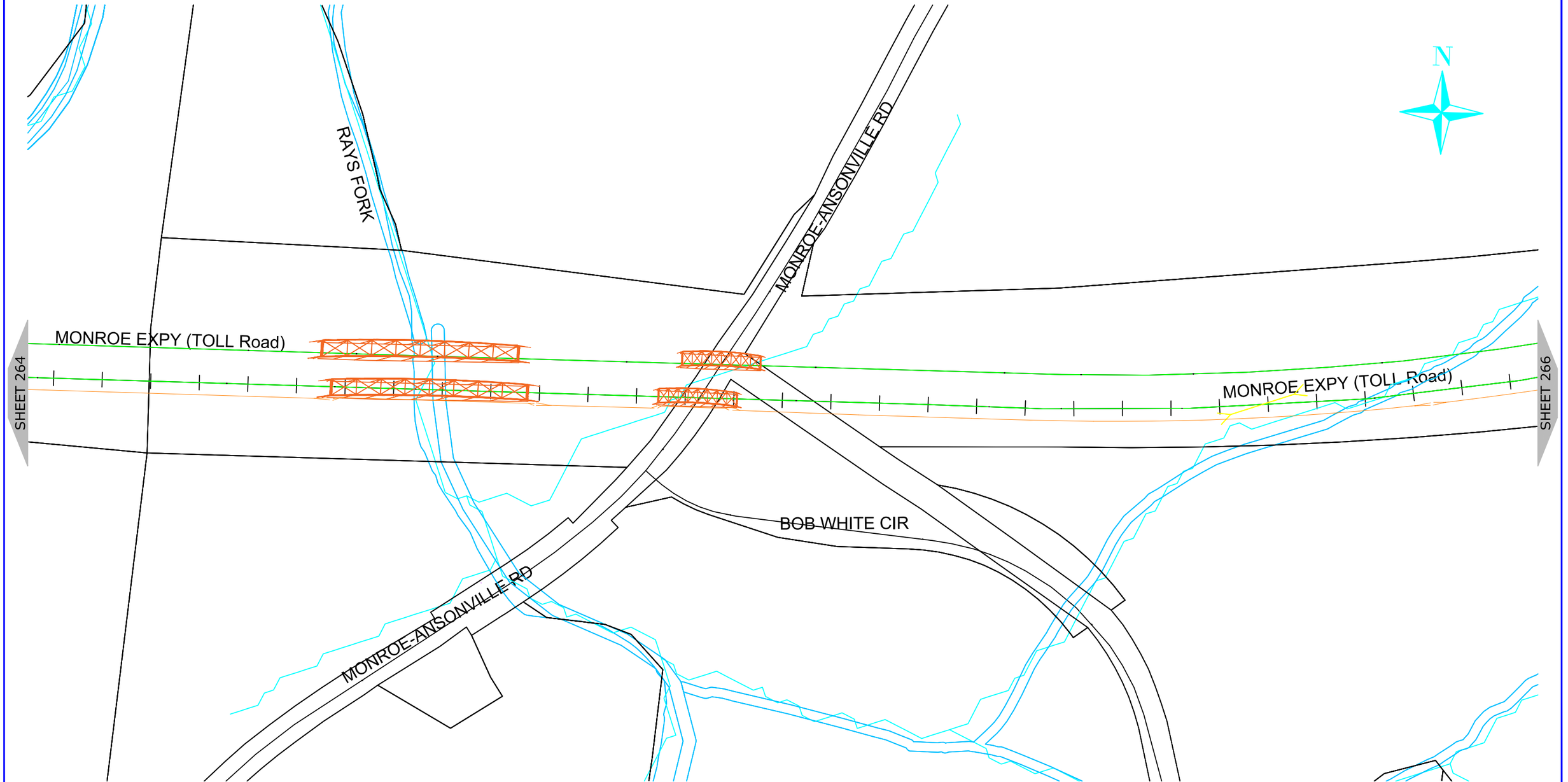
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 264

SHEET: 264

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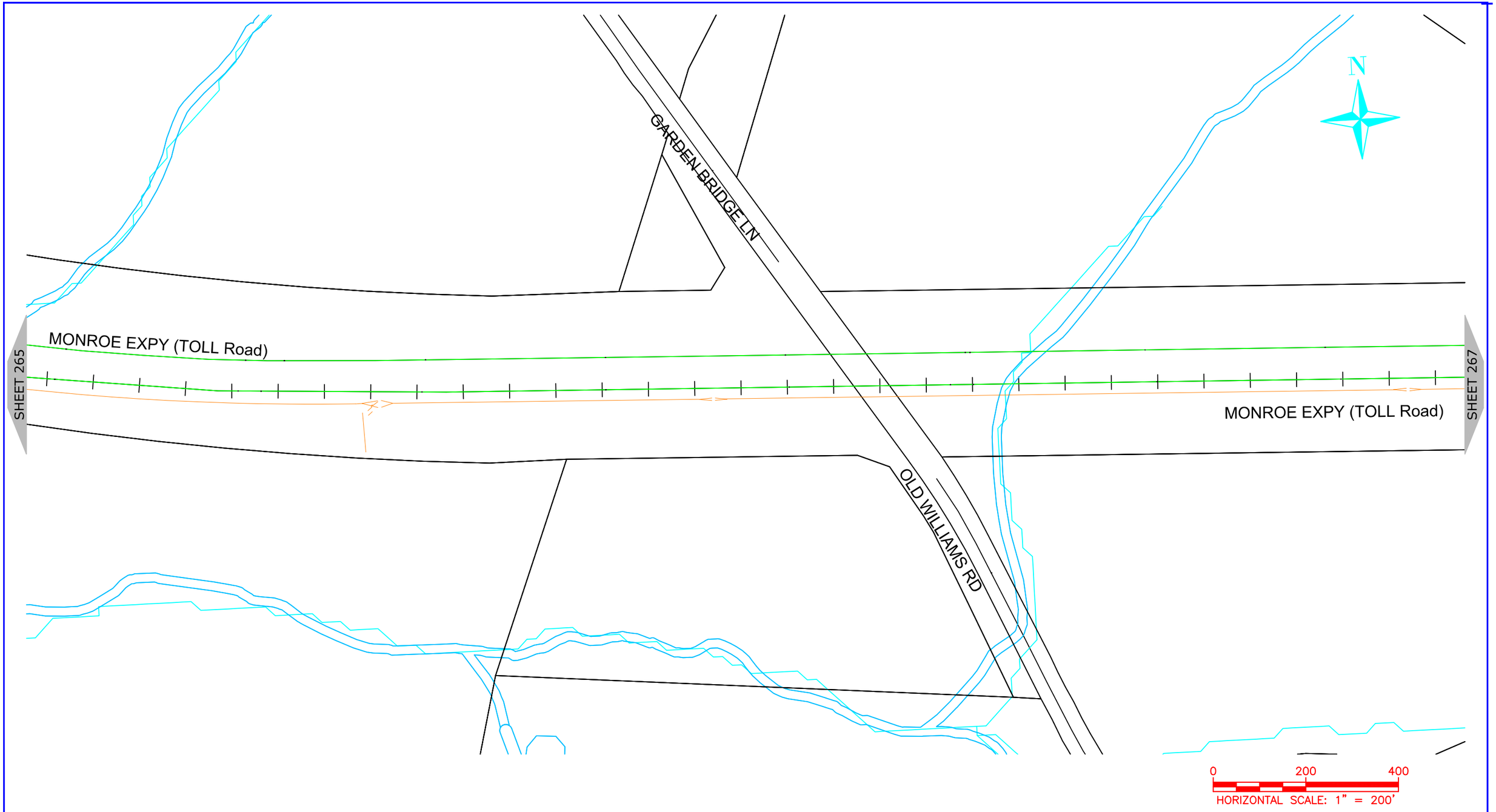
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 265

SHEET: 265

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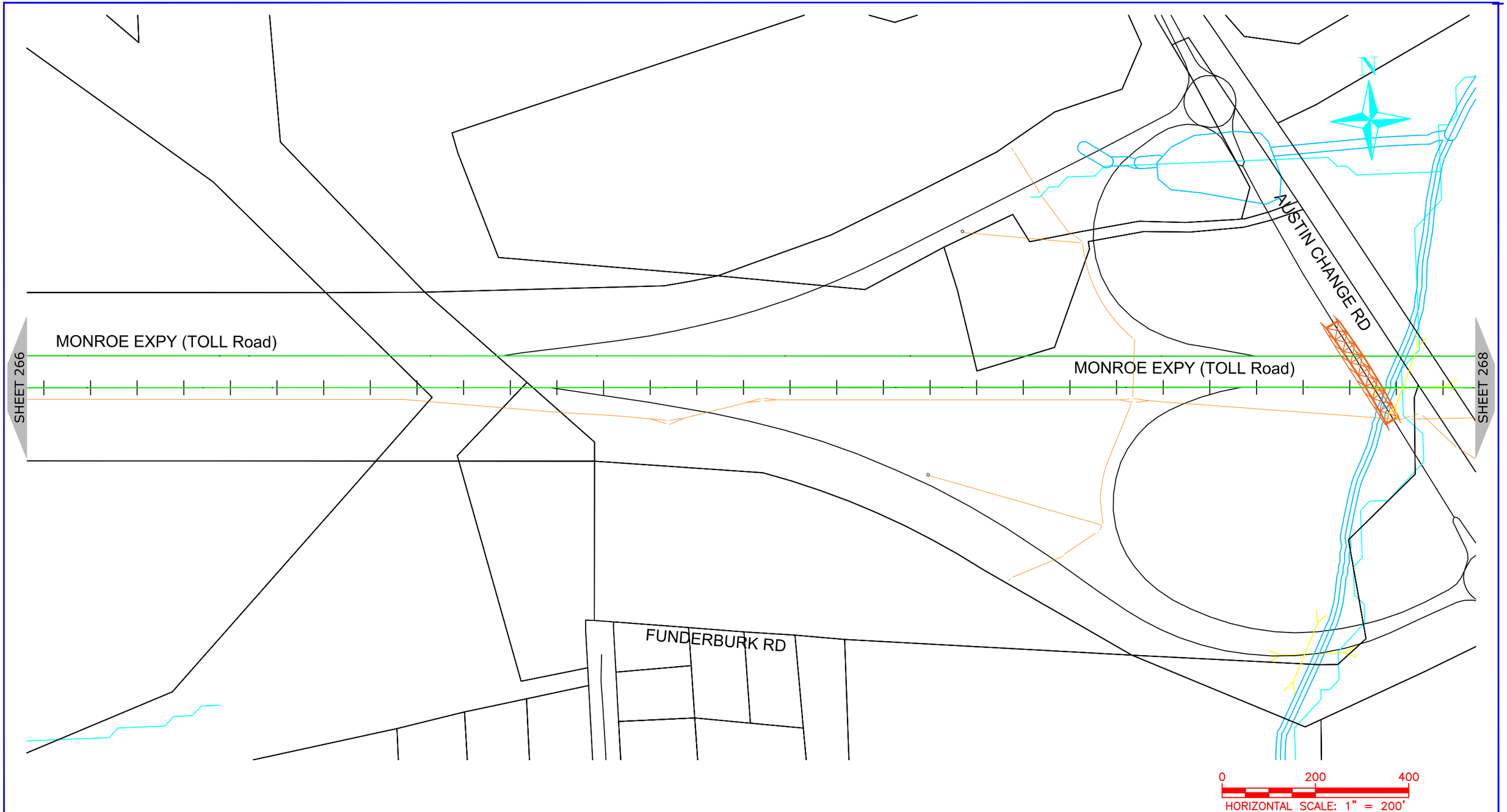
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
266

SHEET:
266

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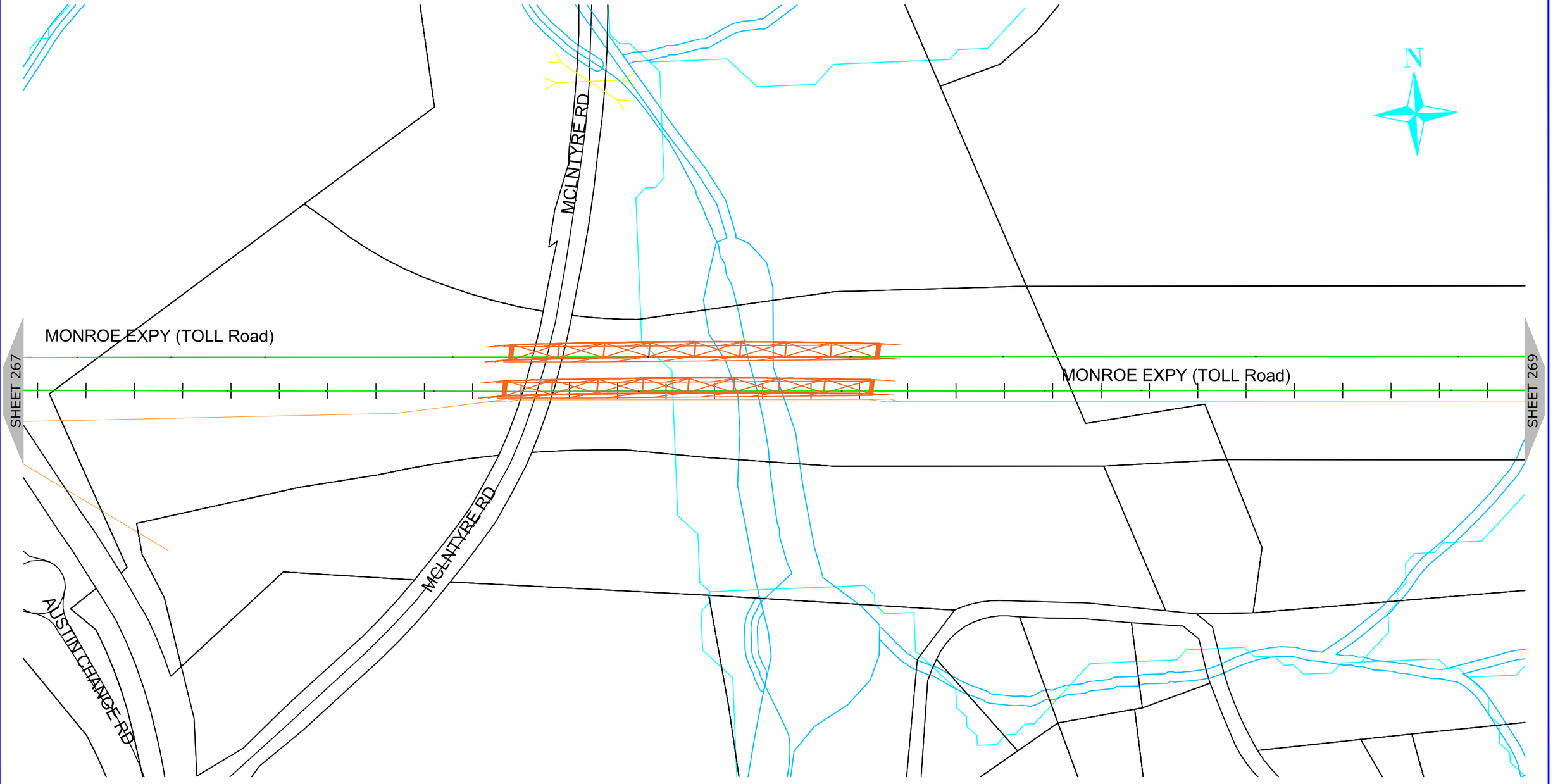
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 267

SHEET: 267

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 268

SHEET: 268

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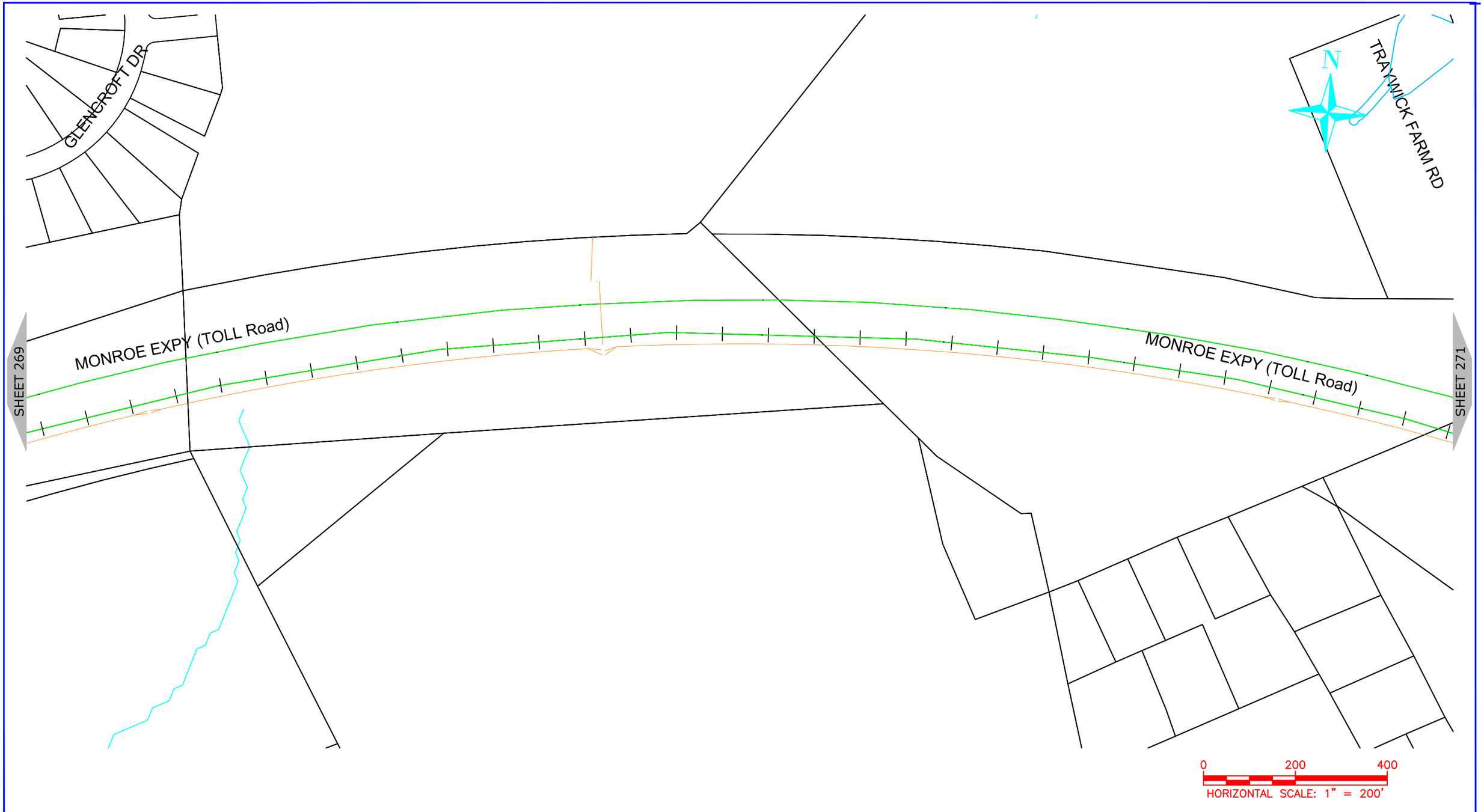
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 269

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 270

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PROJECT NAME:
US-74

SHEET NAME:
271

SHEET:
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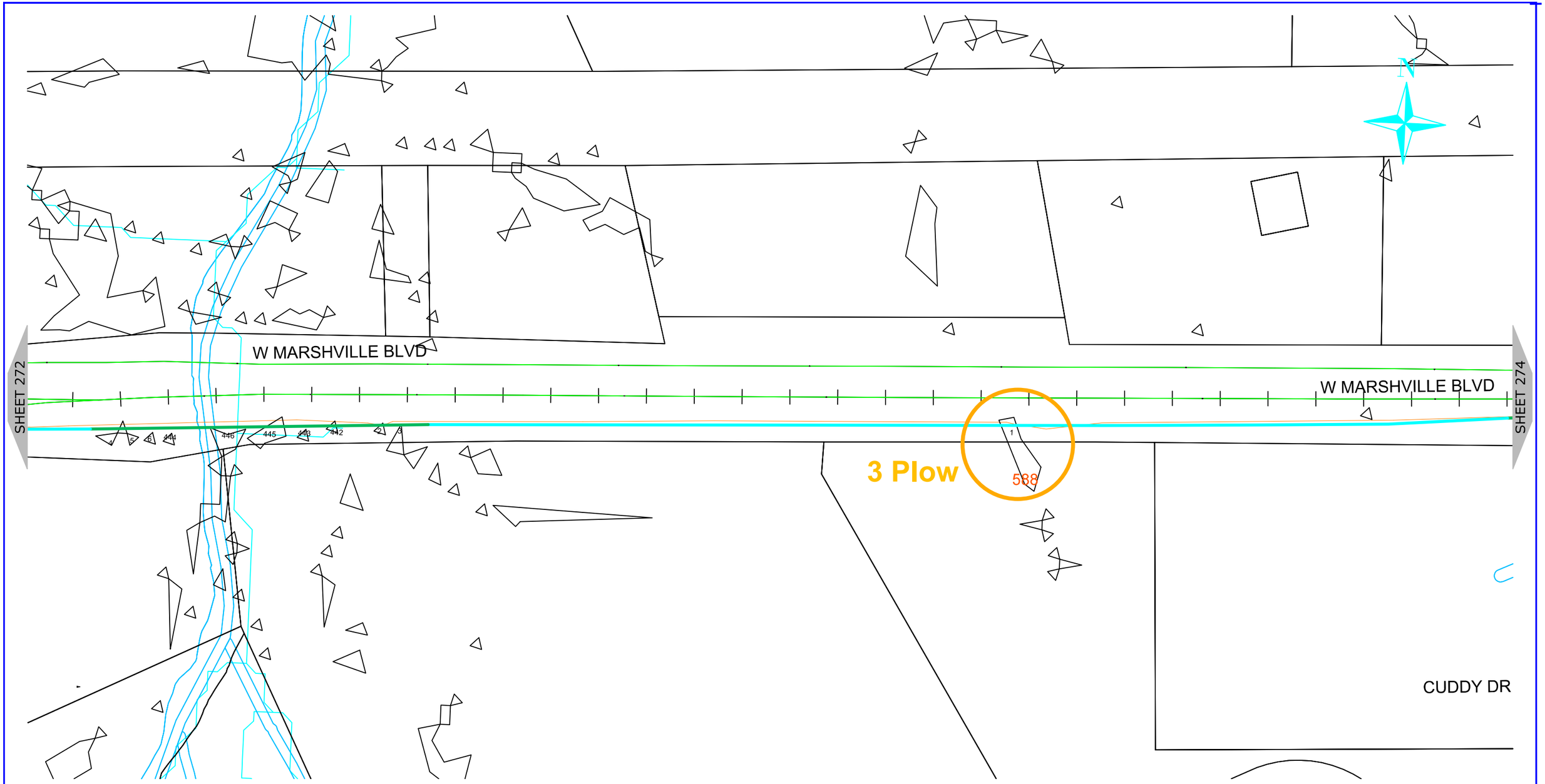
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 272

SHEET: 272

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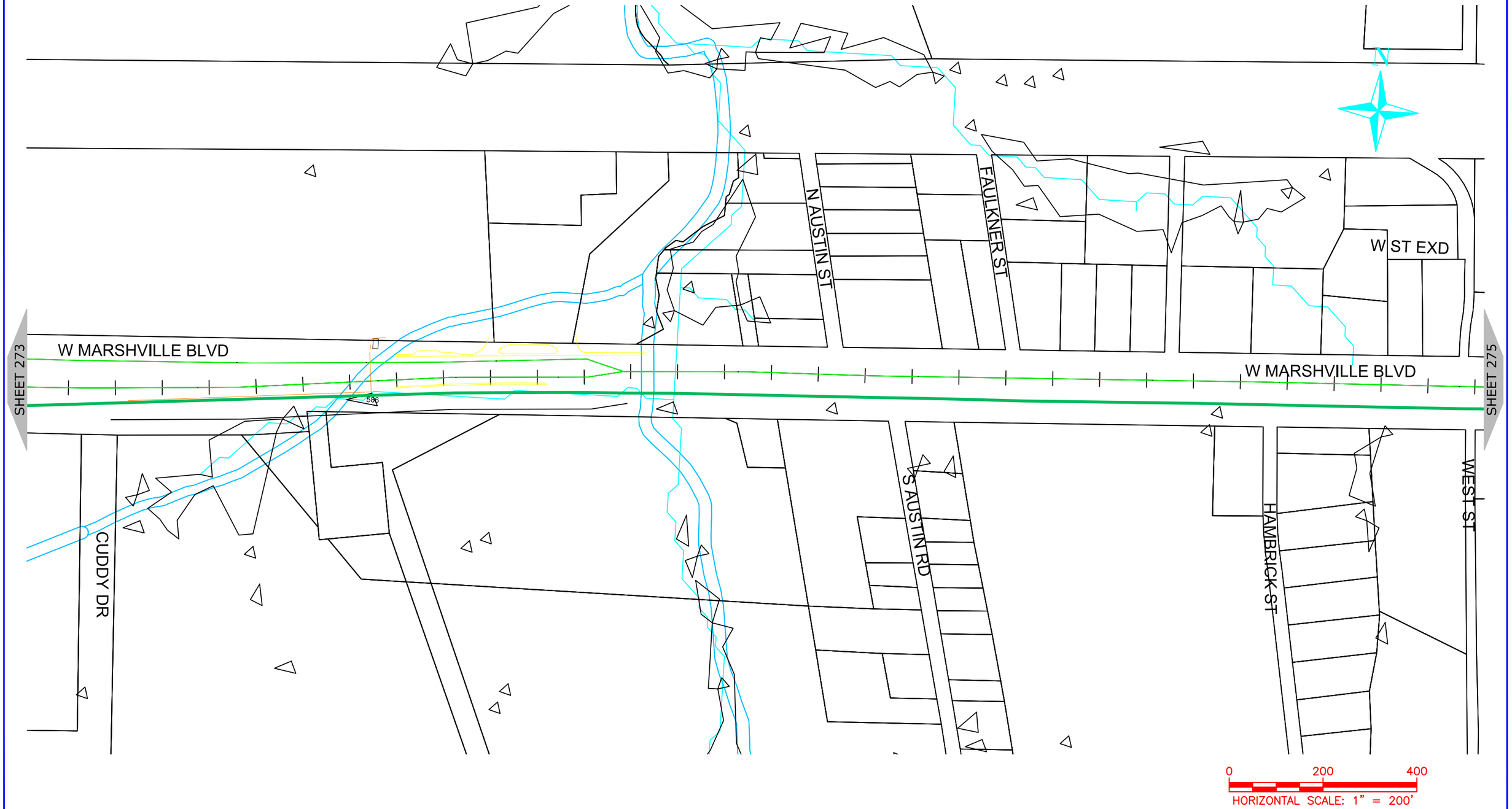
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 273

SHEET: 273

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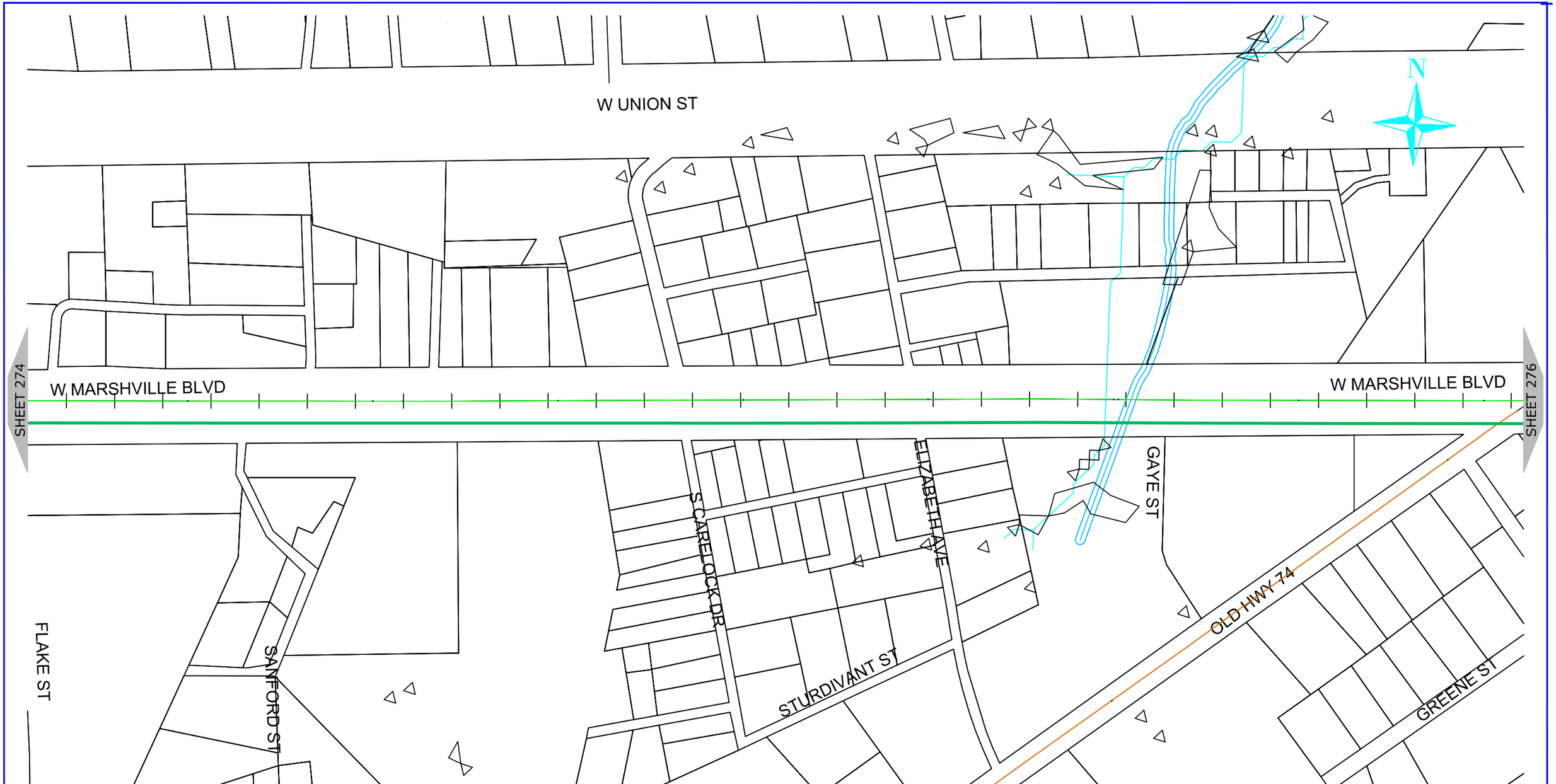
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 274

SHEET: 274

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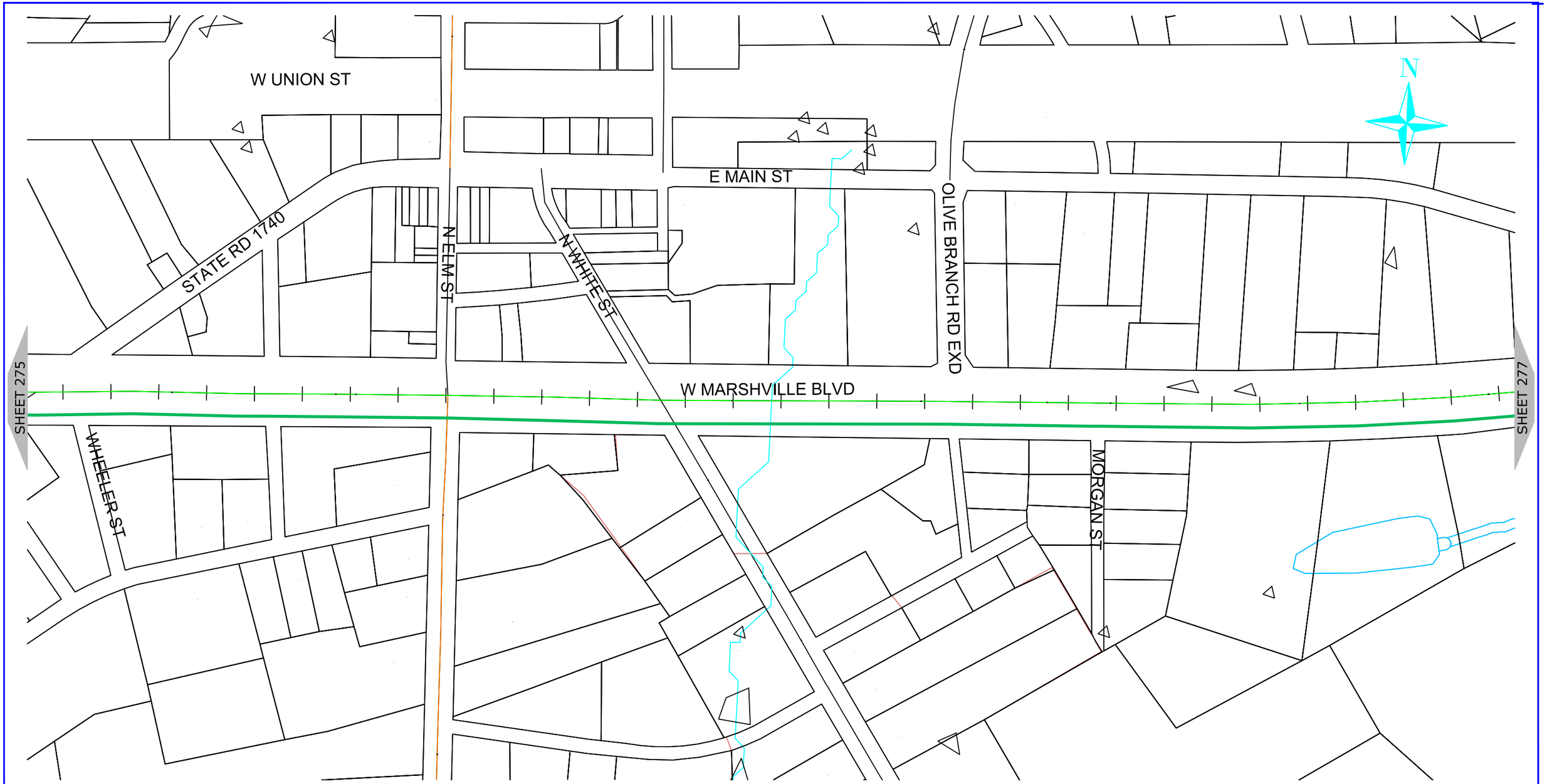
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 275

SHEET: 275

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PROJECT NAME: US-74

SHEET NAME: 276

SHEET: 276

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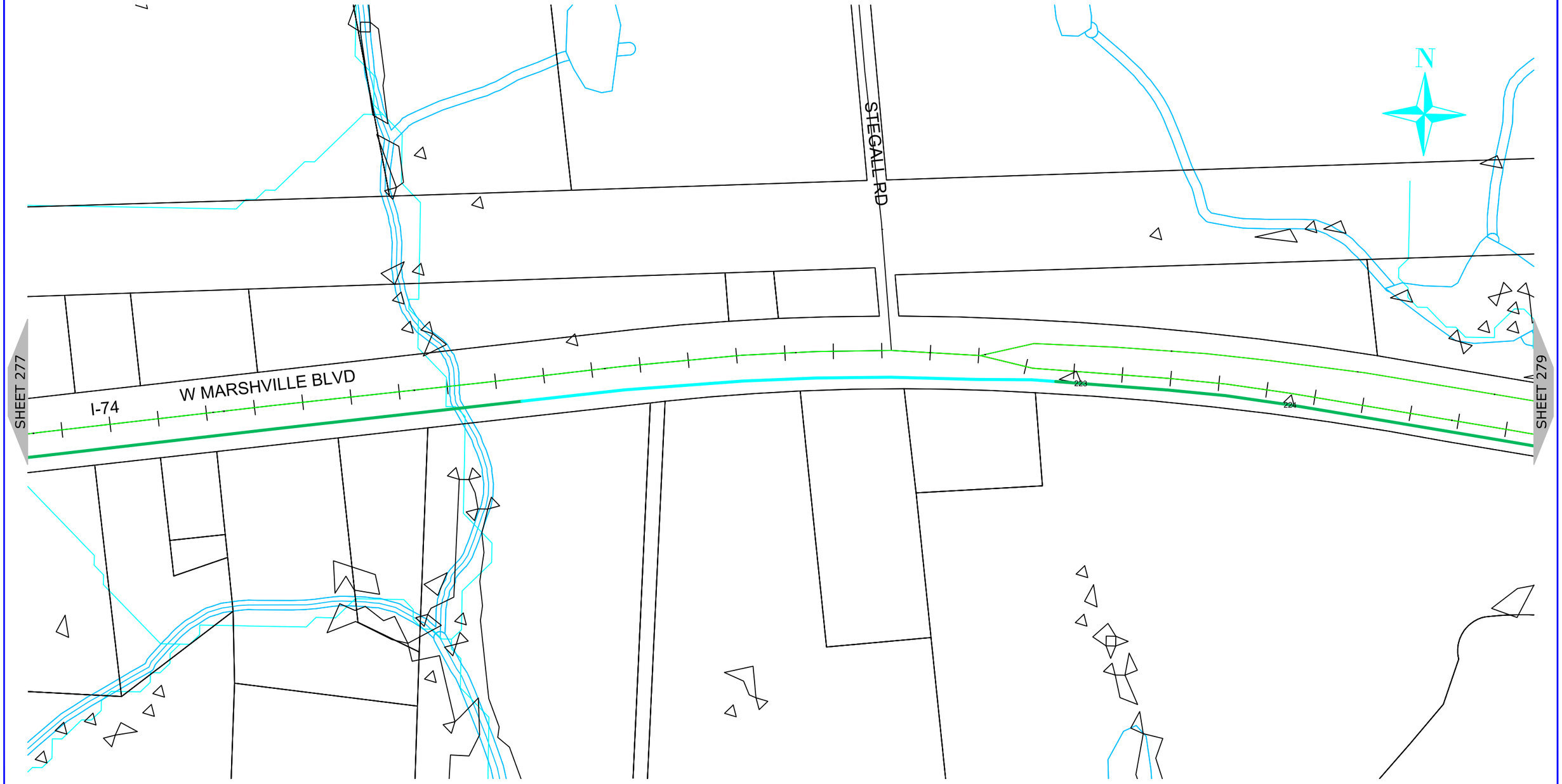
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 277

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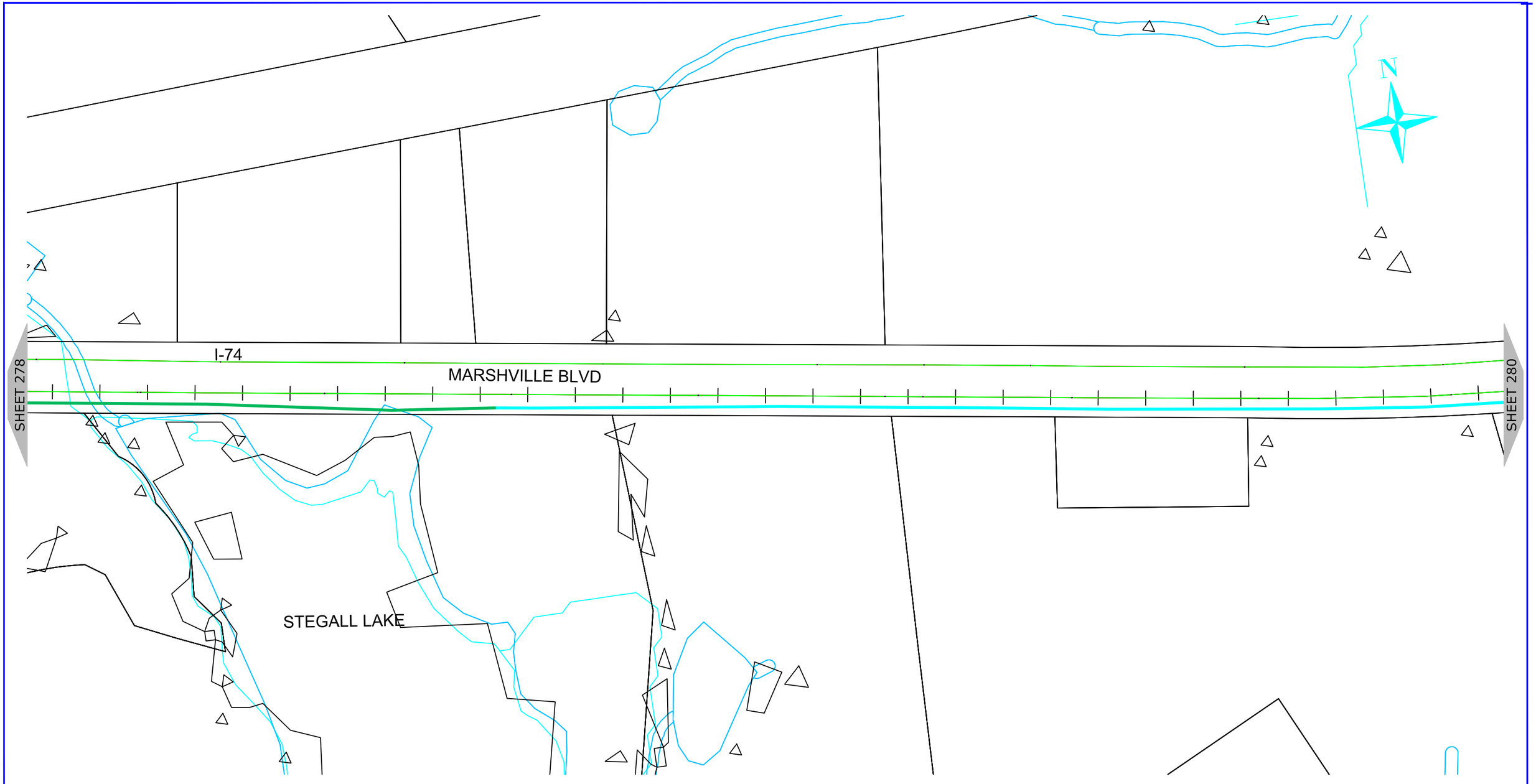
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
278

SHEET:
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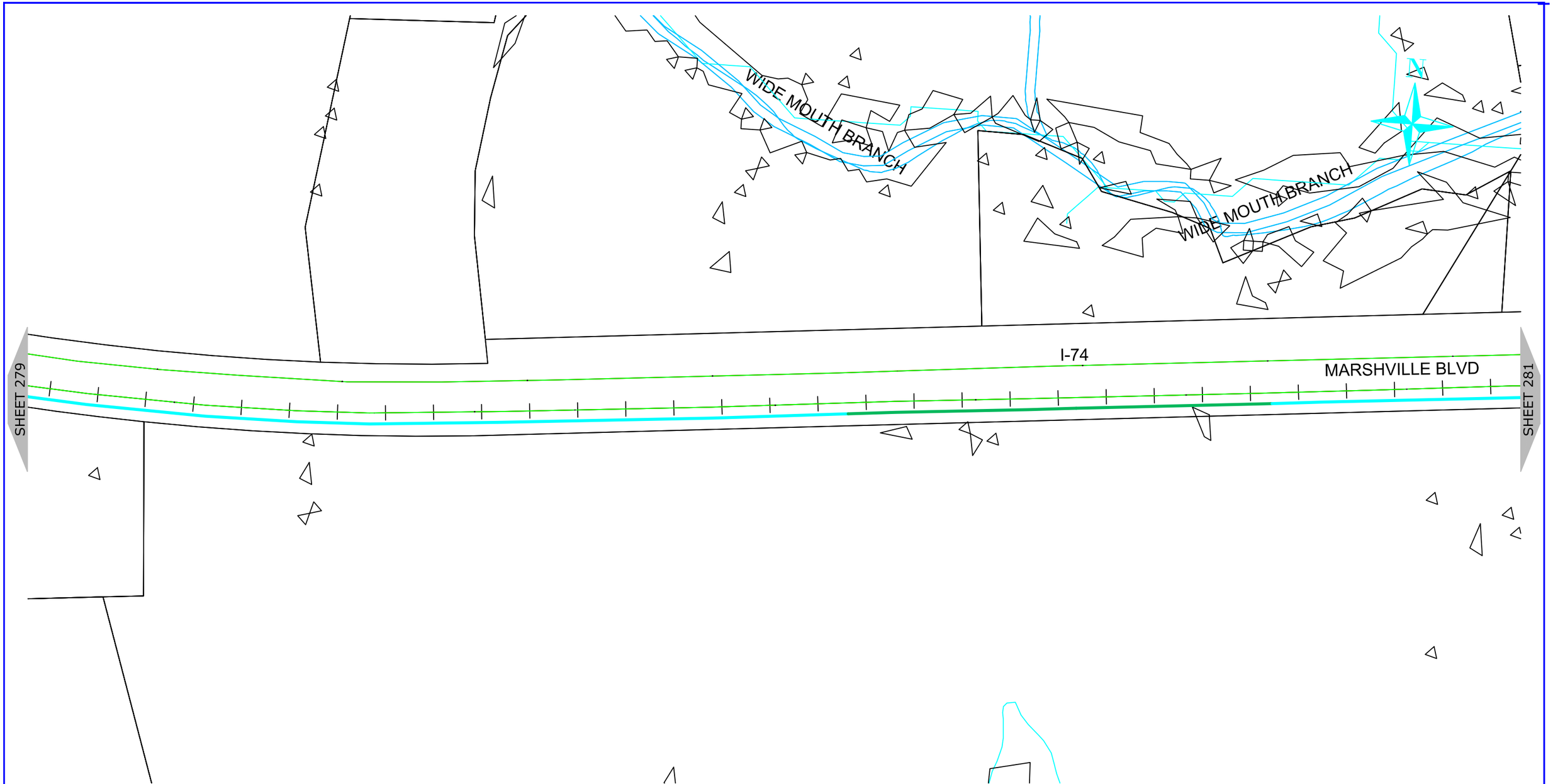
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 279

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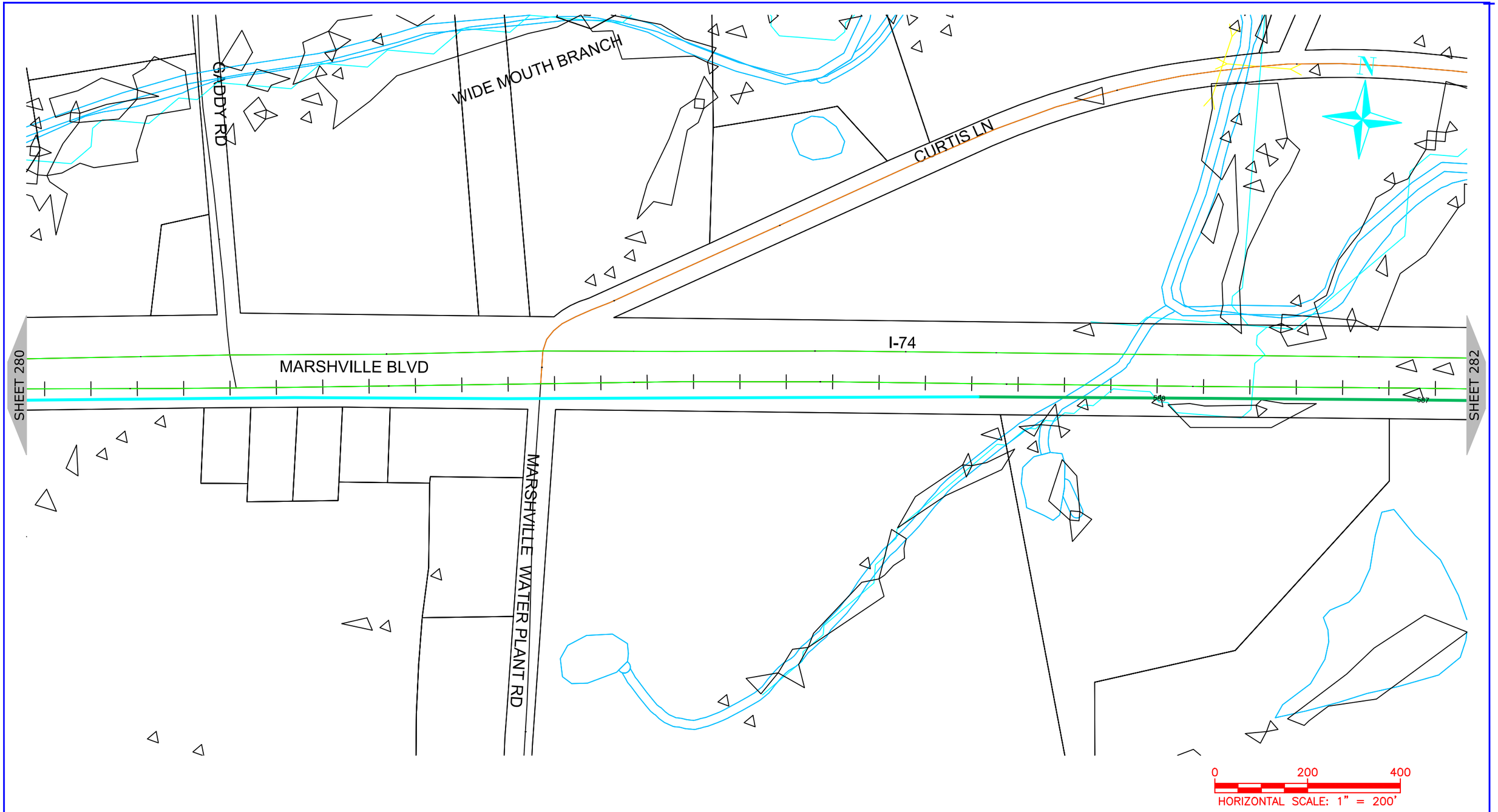
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 280

SHEET: 280

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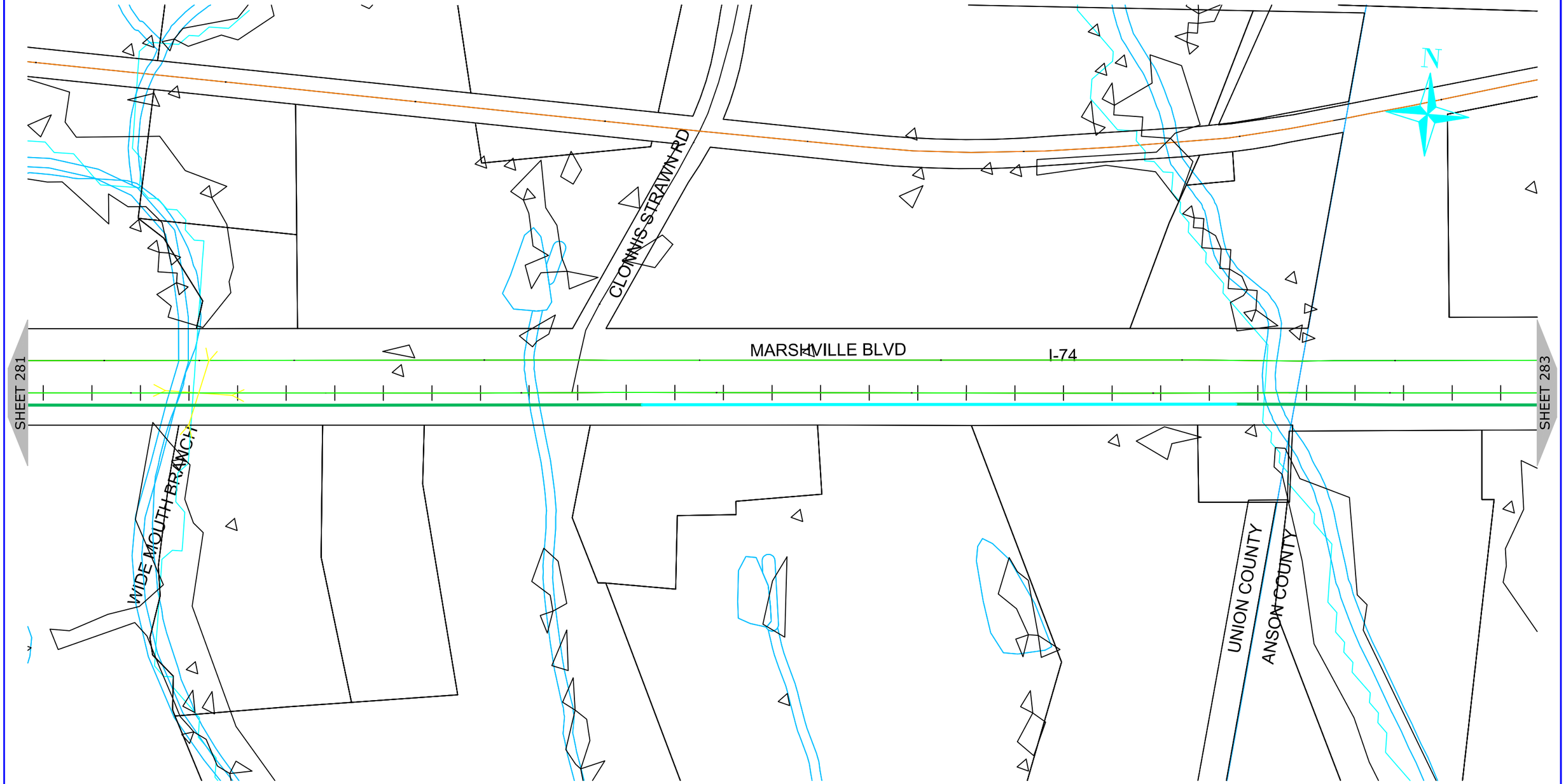
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 281

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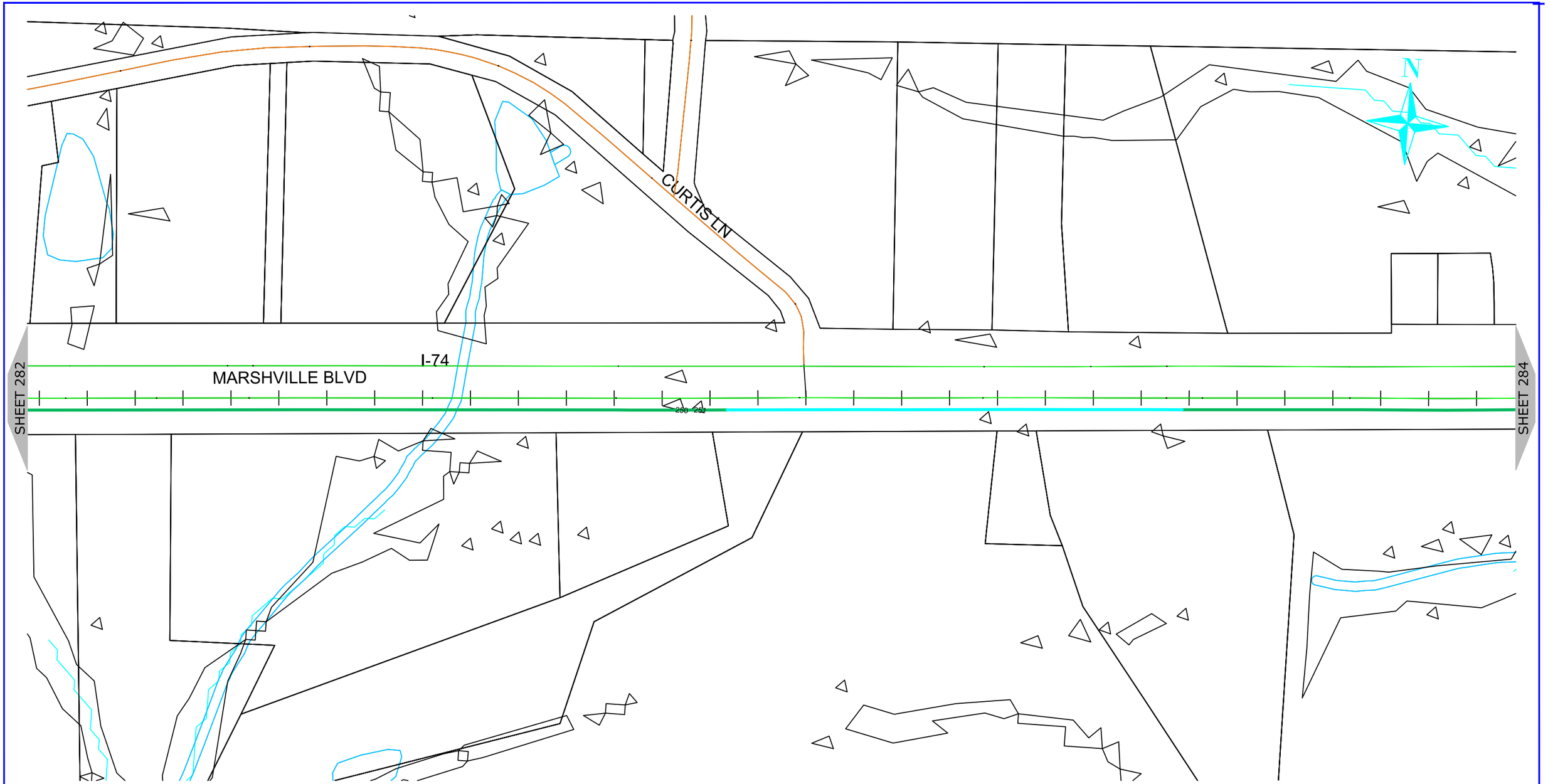
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 282

SHEET: 282

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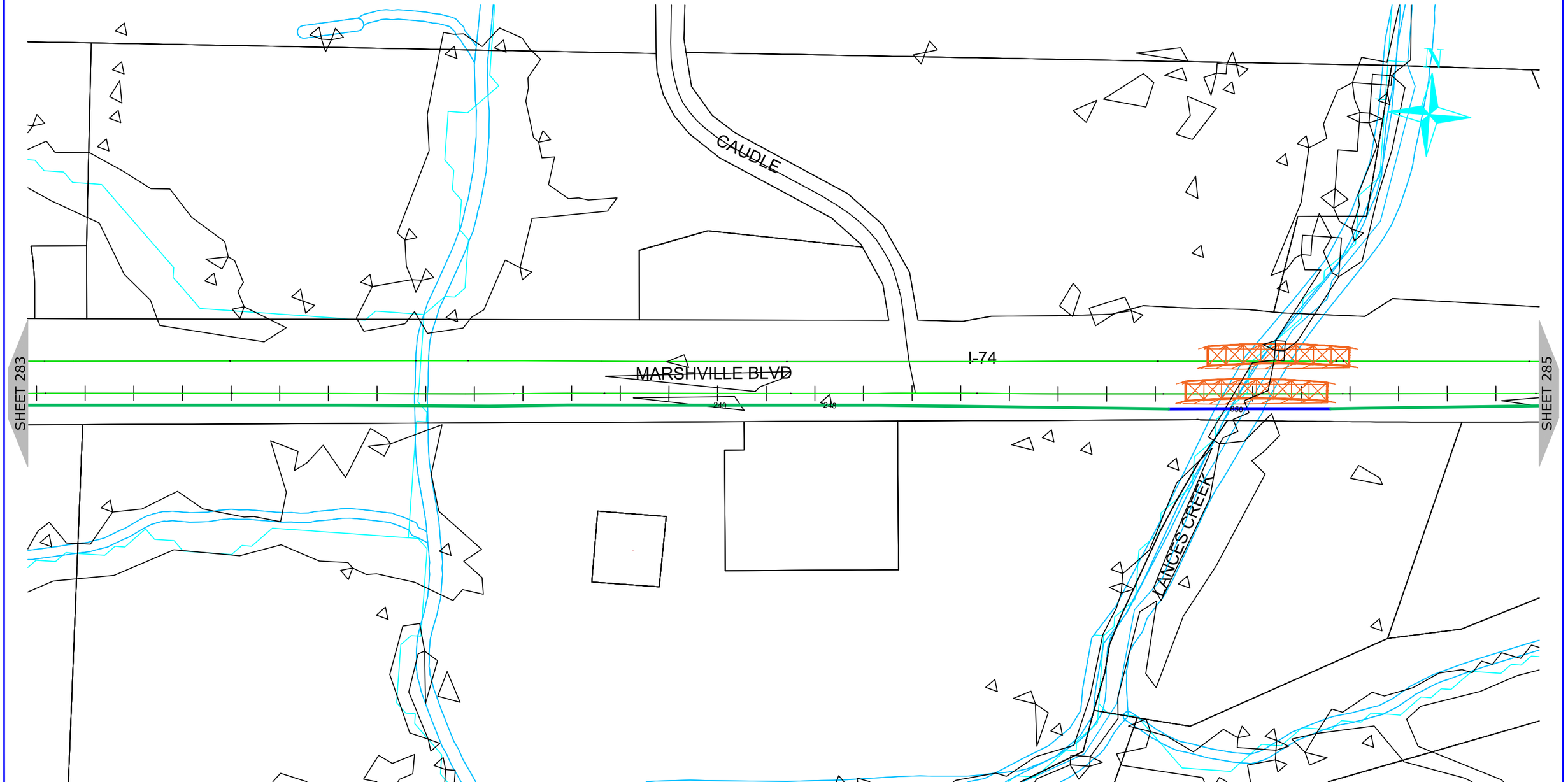
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 283

SHEET: 283

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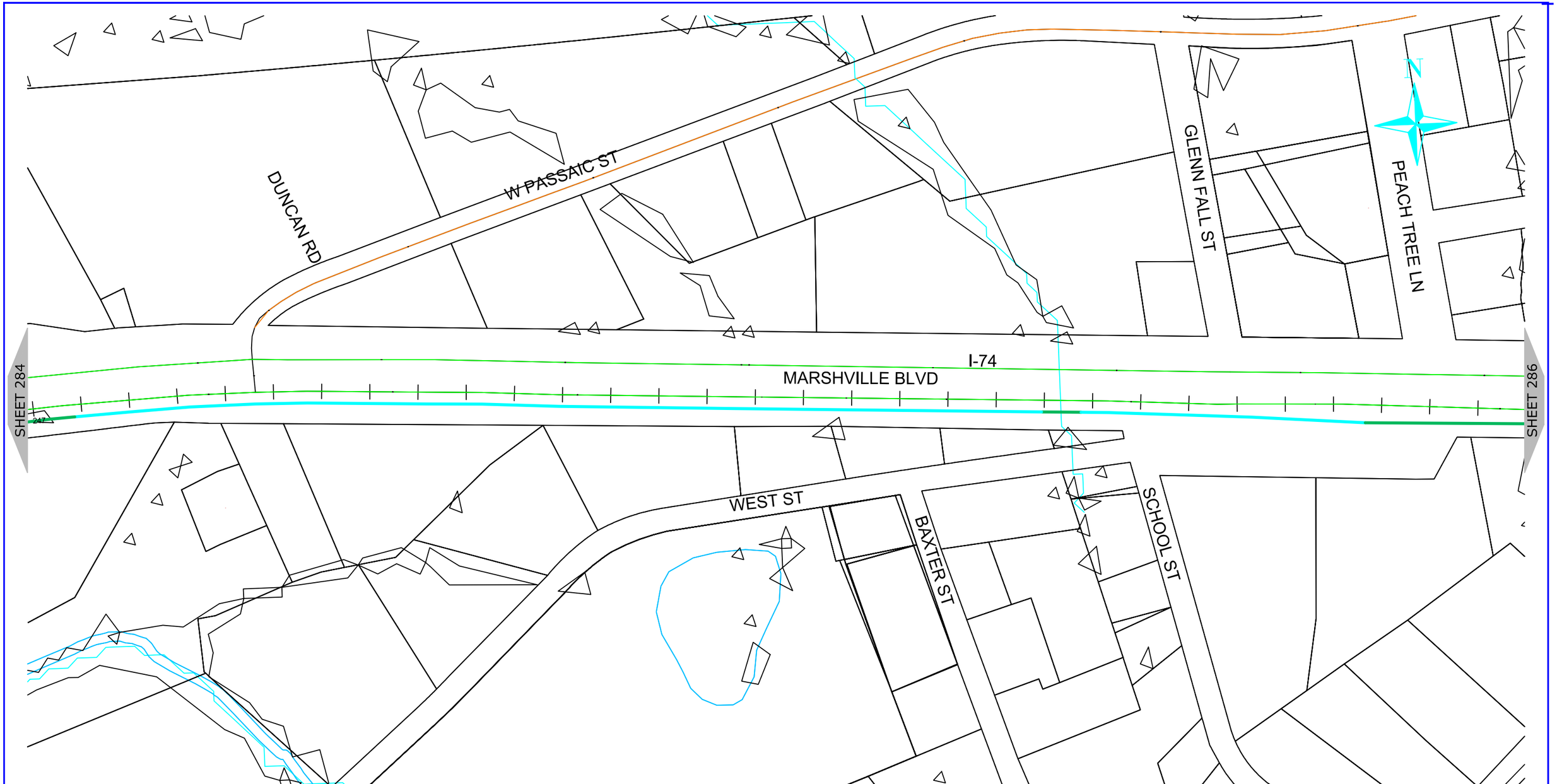
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 284

SHEET: 284

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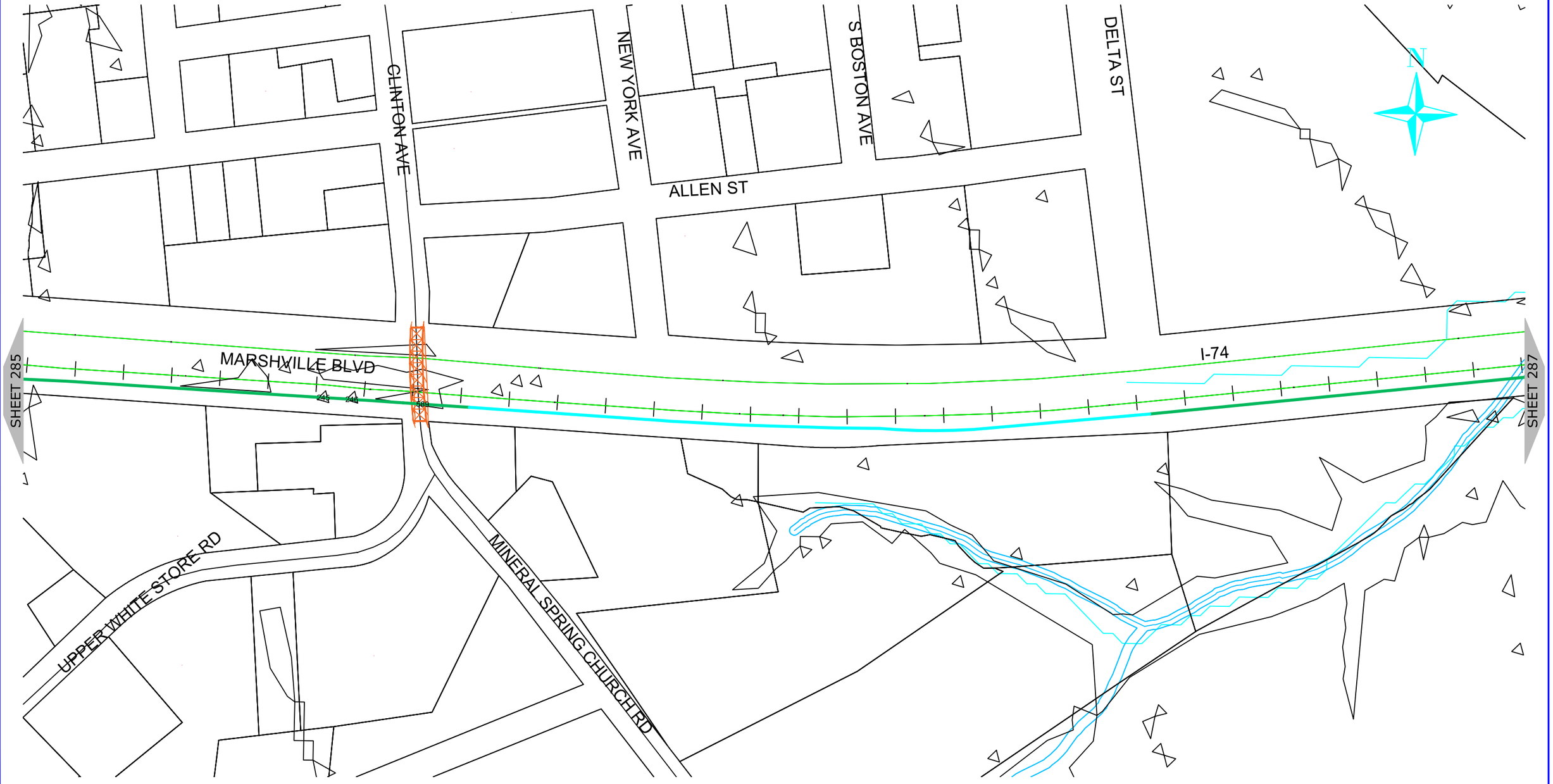
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 285

SHEET: 285

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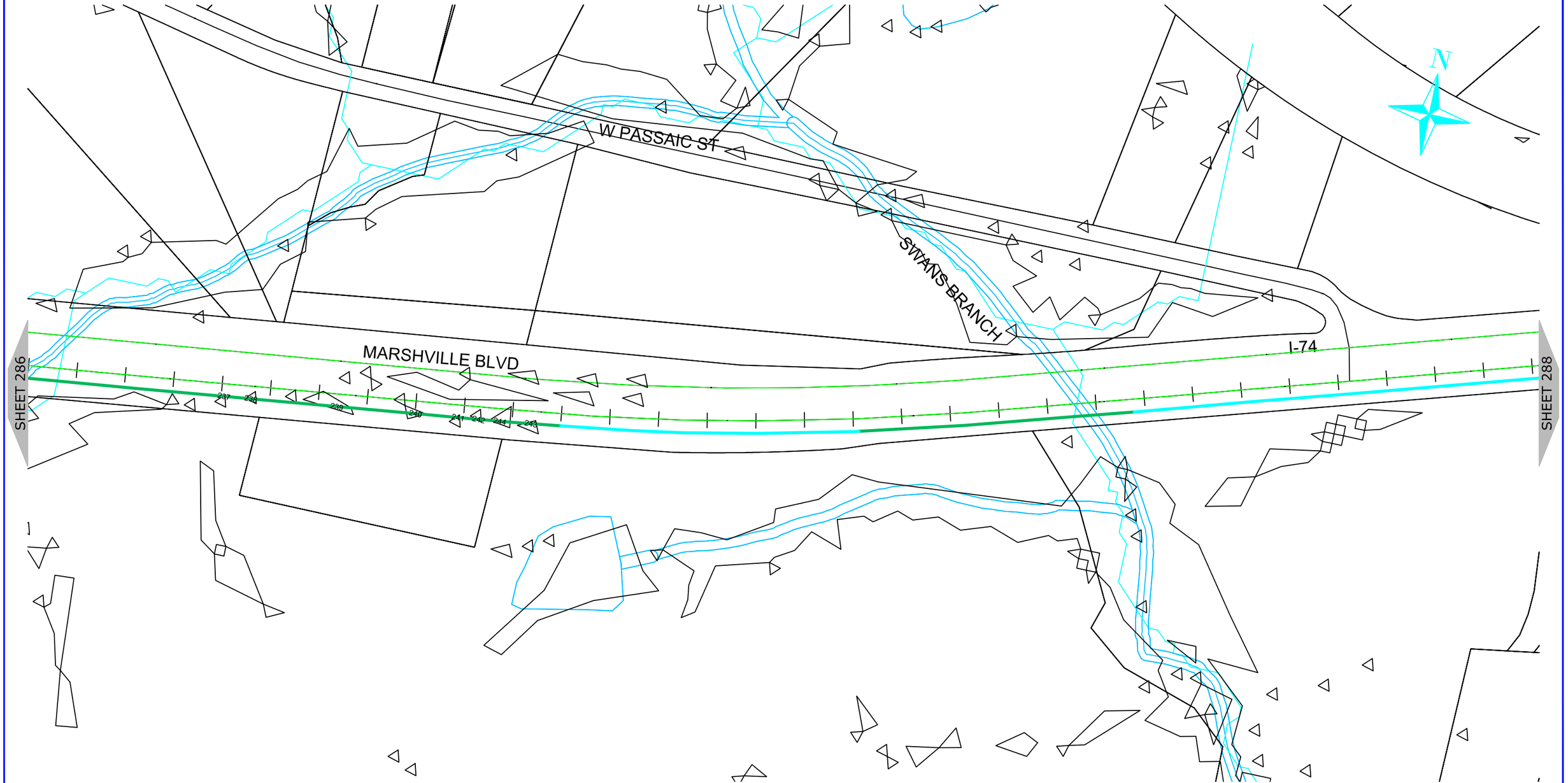
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 286

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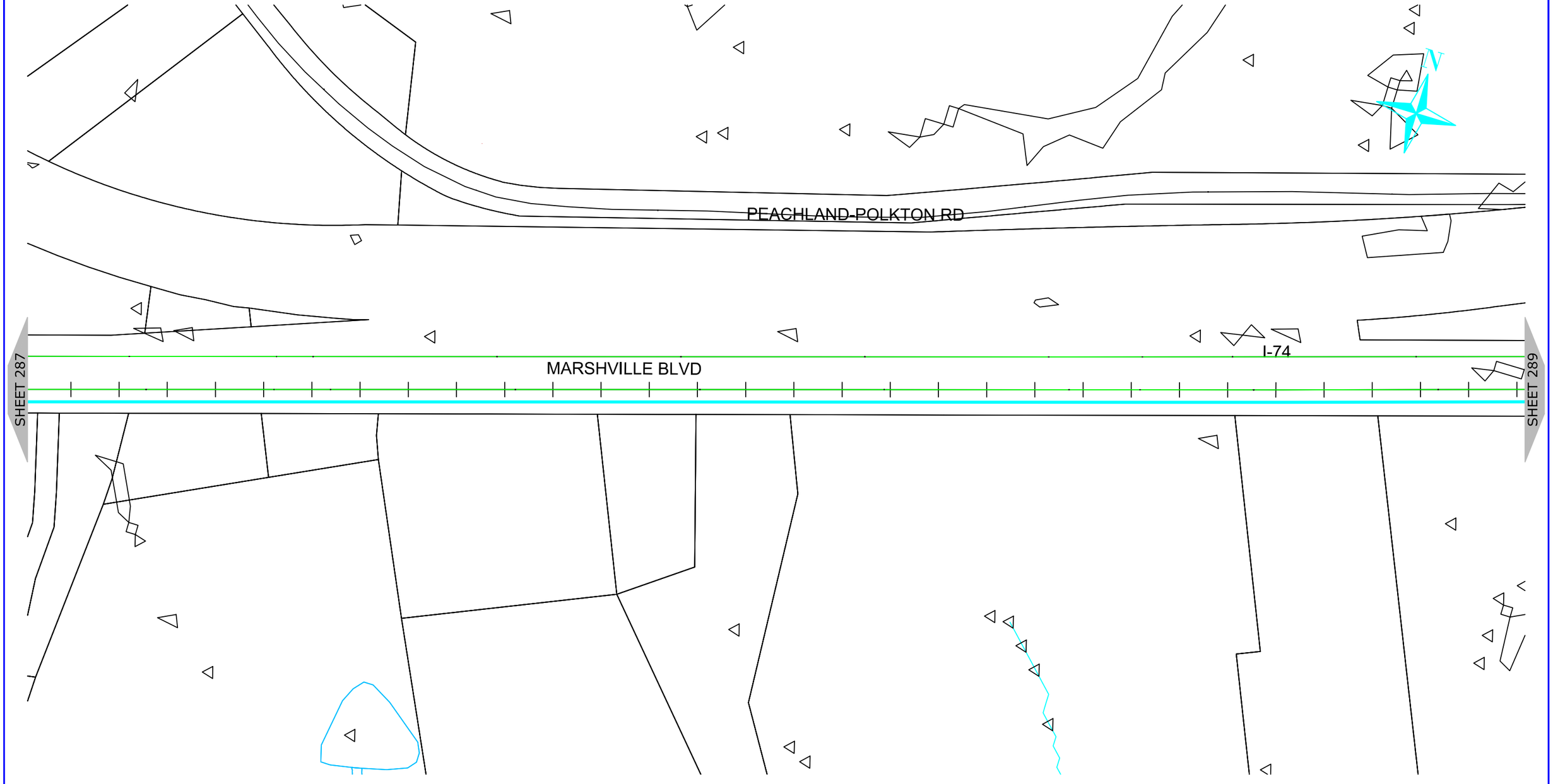
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 287

SHEET: 287

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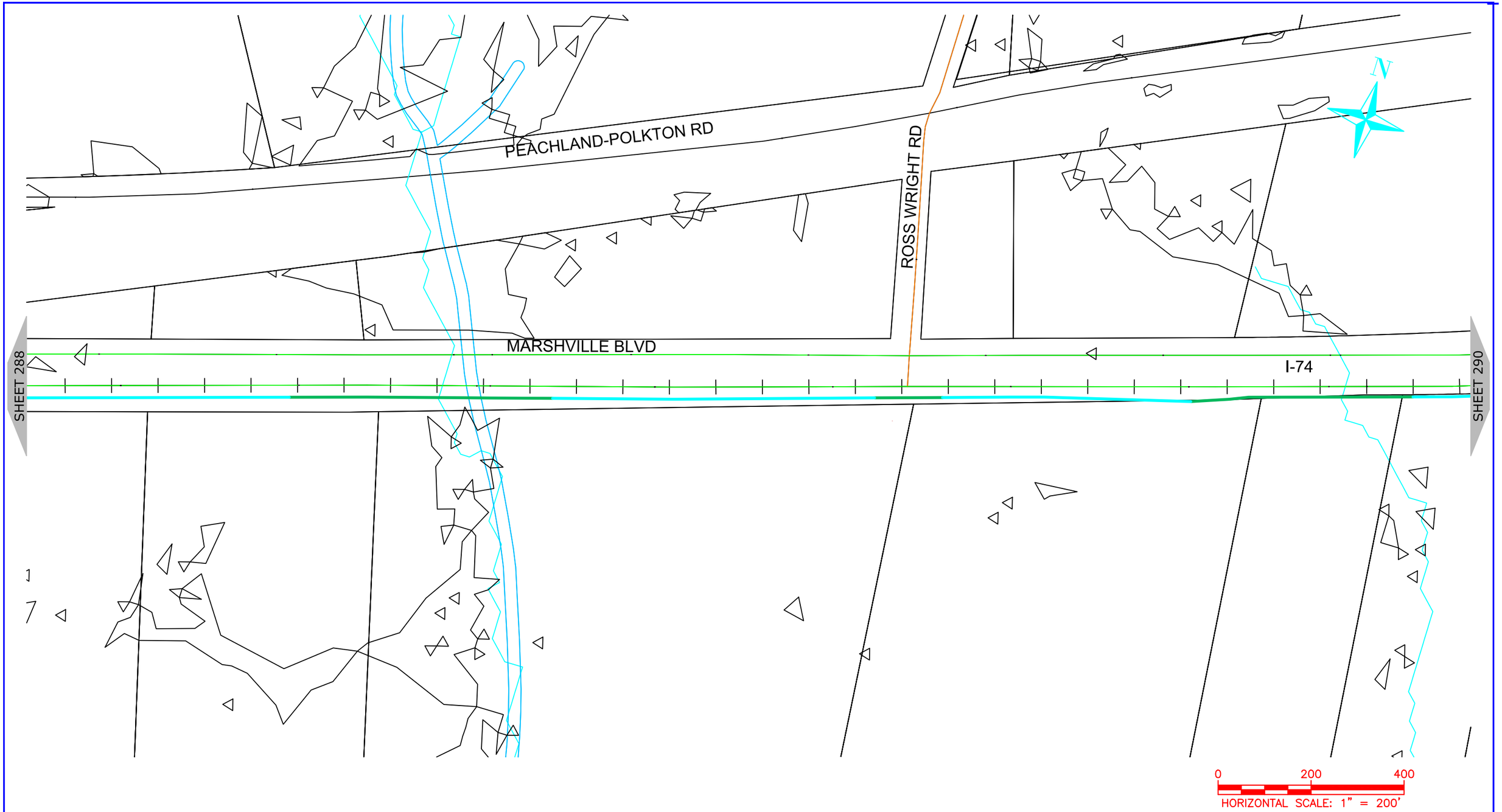
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 288

SHEET: 288

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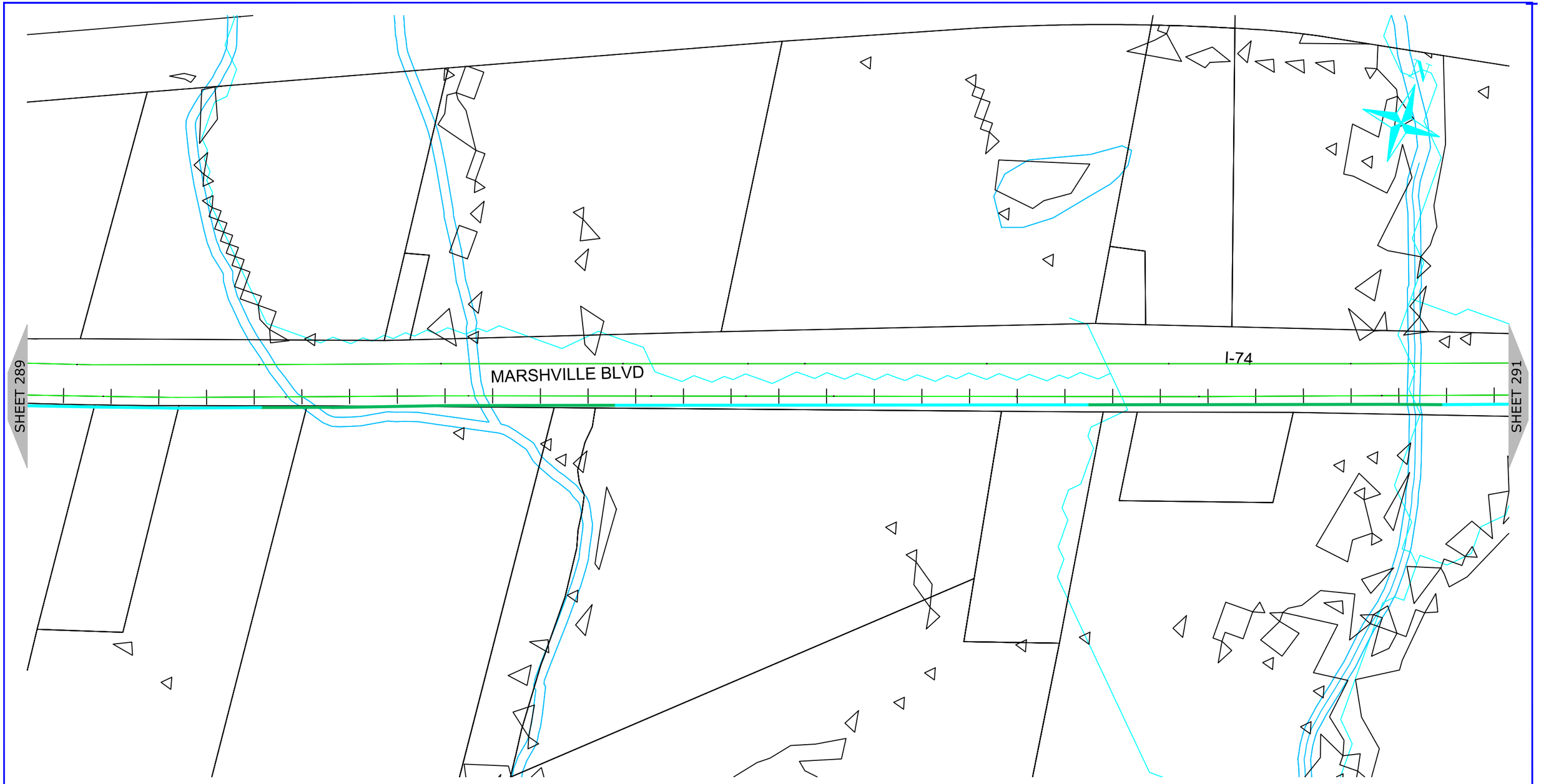
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 289

SHEET: 289

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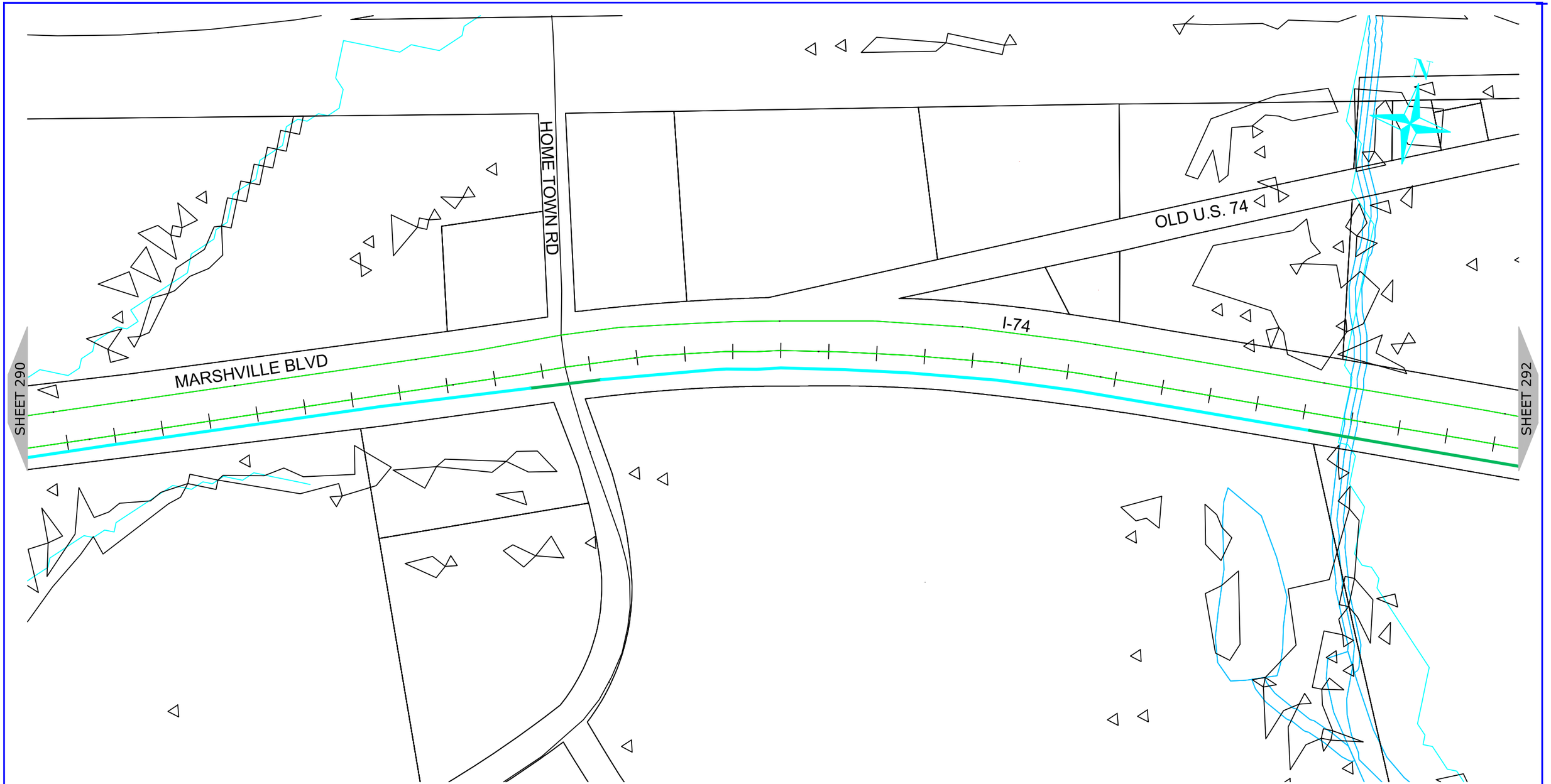
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 290

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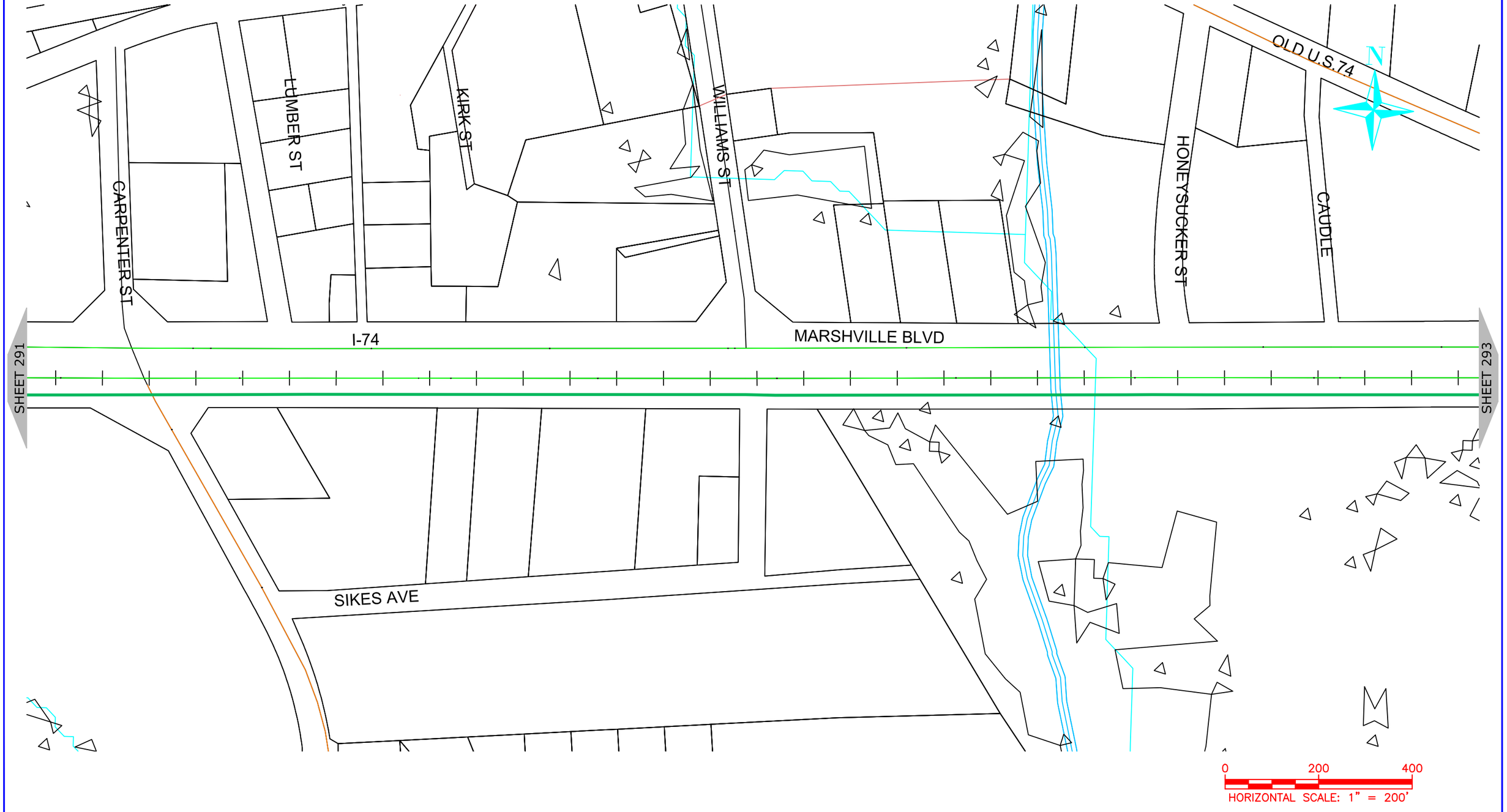
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 291

SHEET: 291

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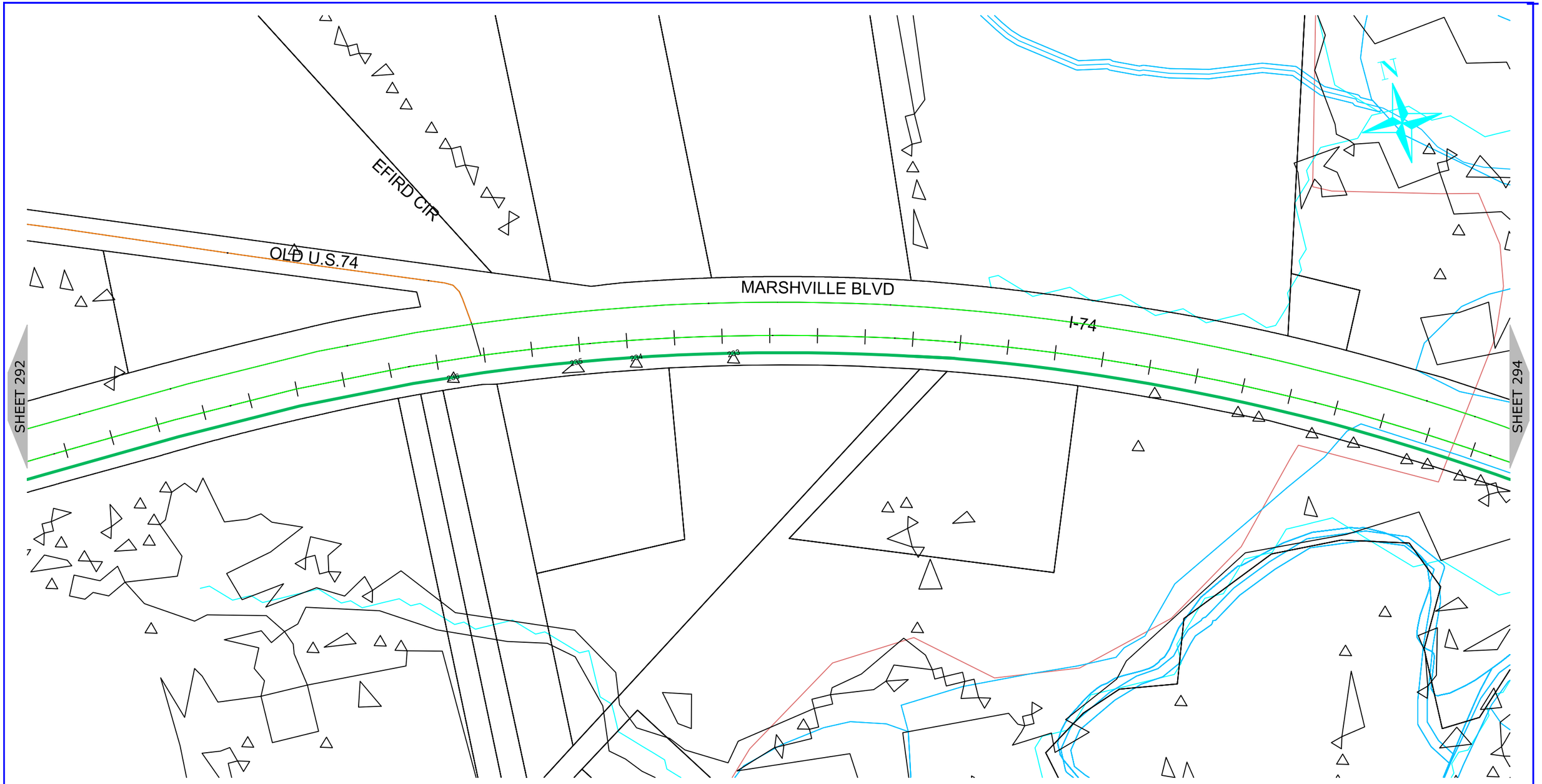
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 292

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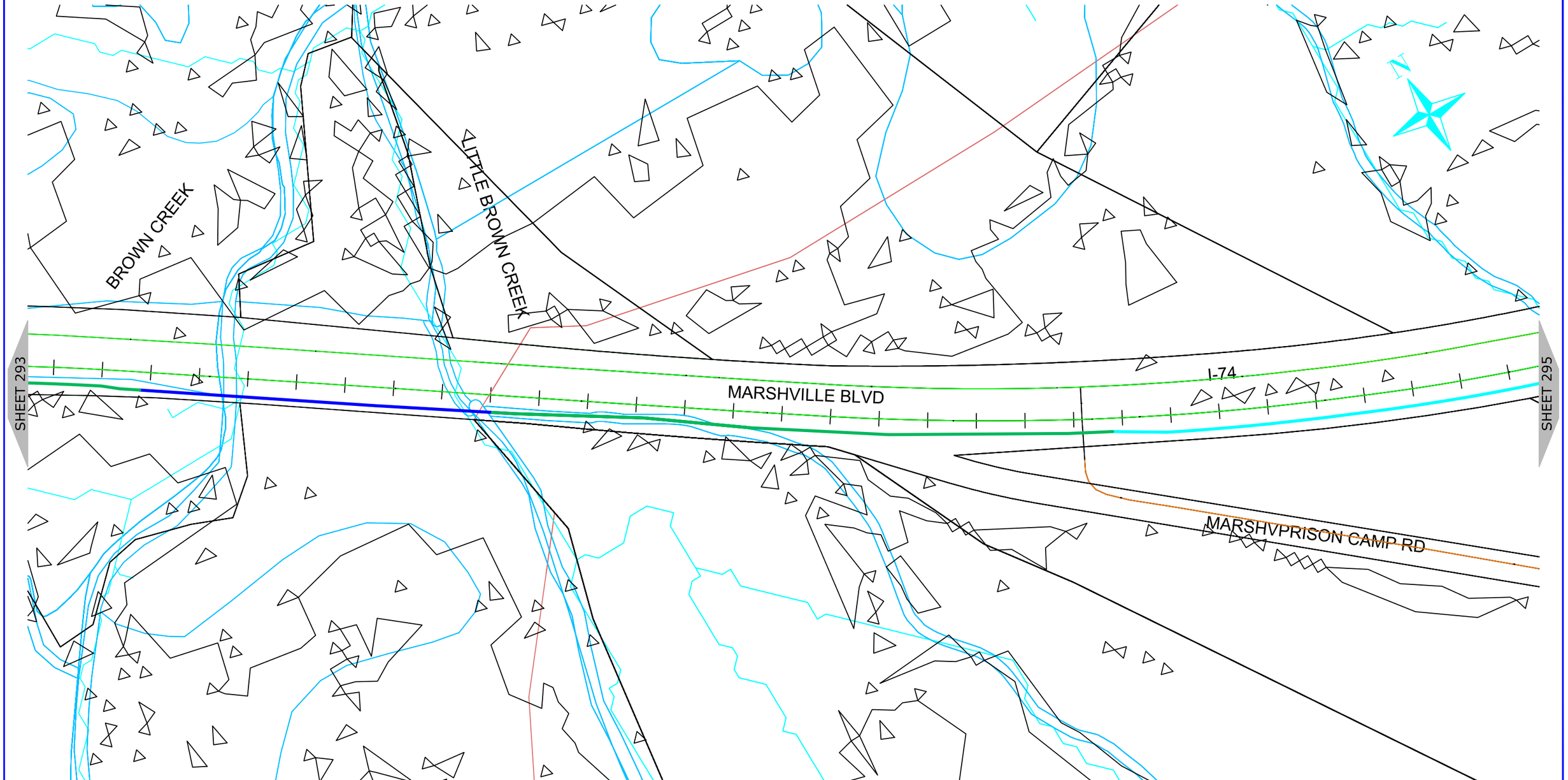
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 293

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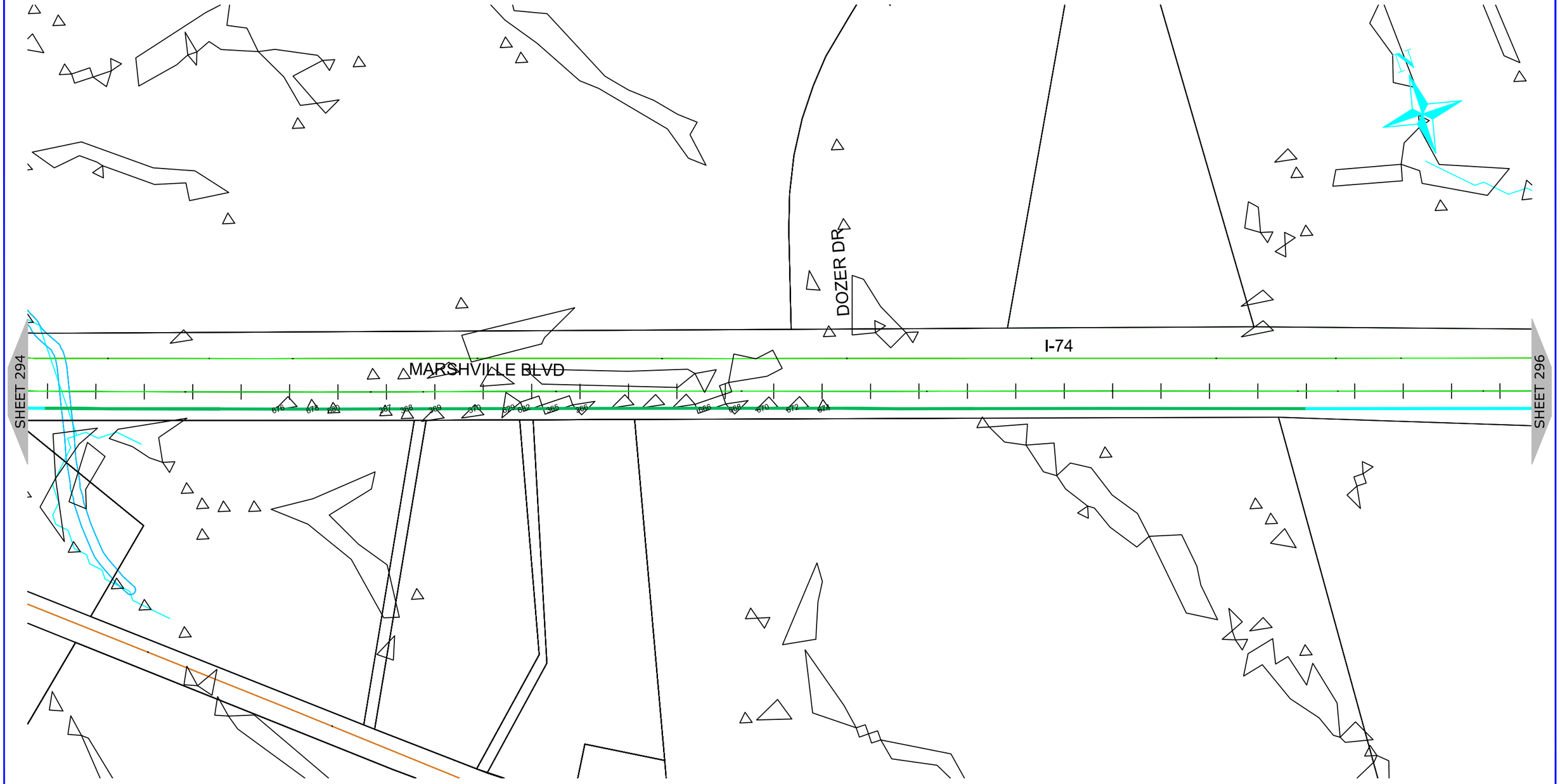
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 294

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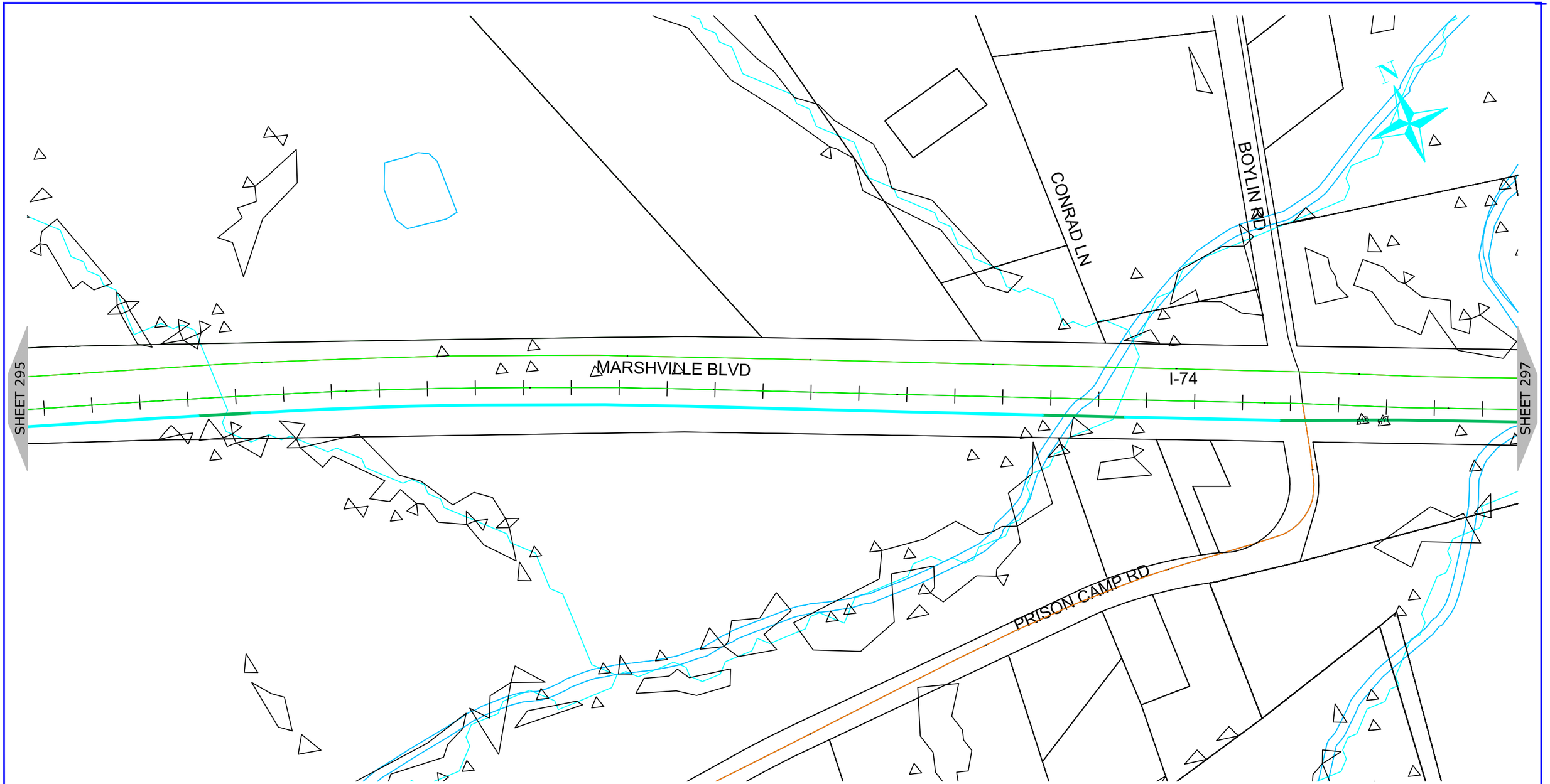
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DESIGNED BY:	RAMTECH
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SHEET NAME: 295

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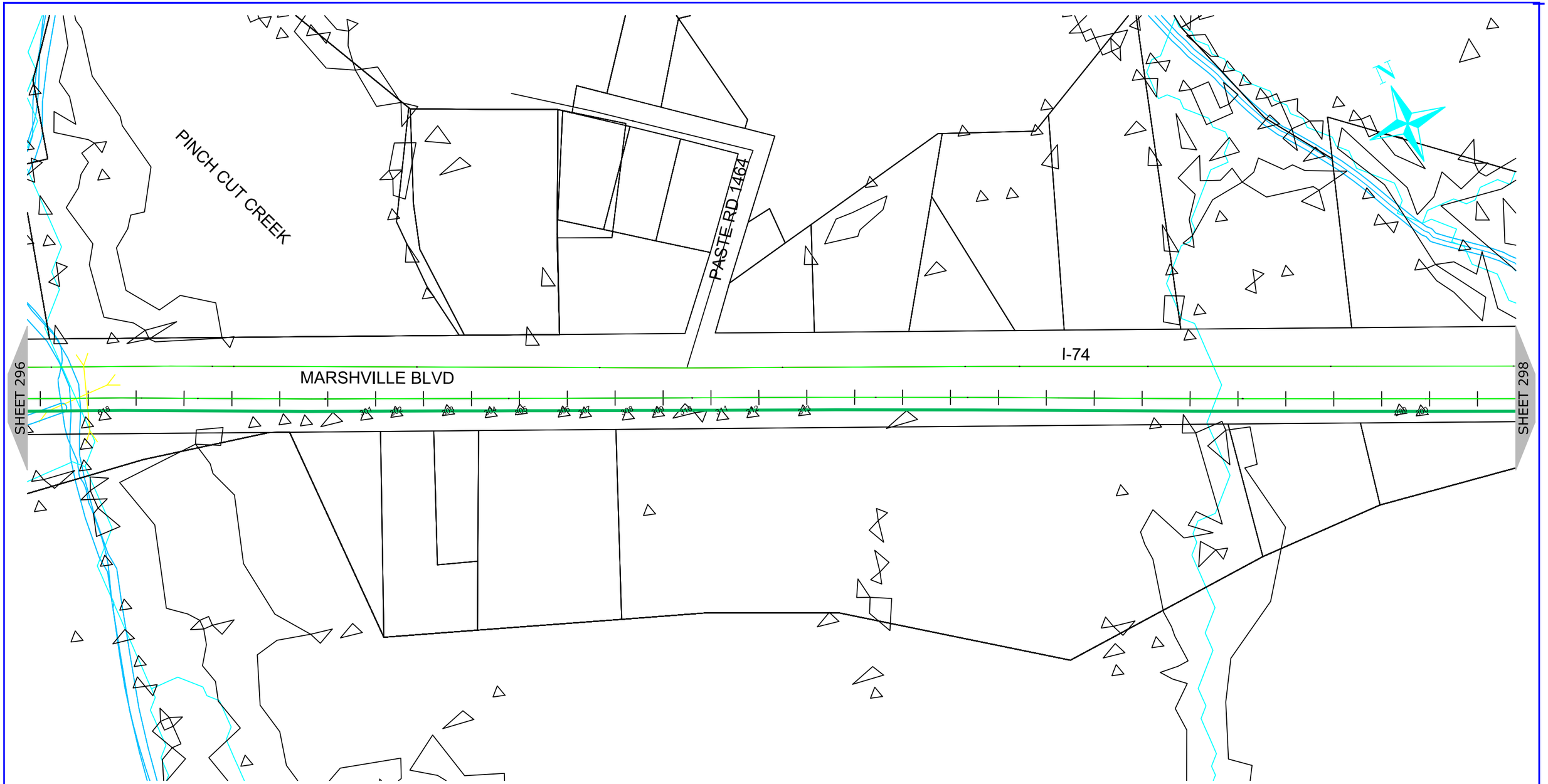
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 296

SHEET: 296

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REV	DATE	DESCRIPTION
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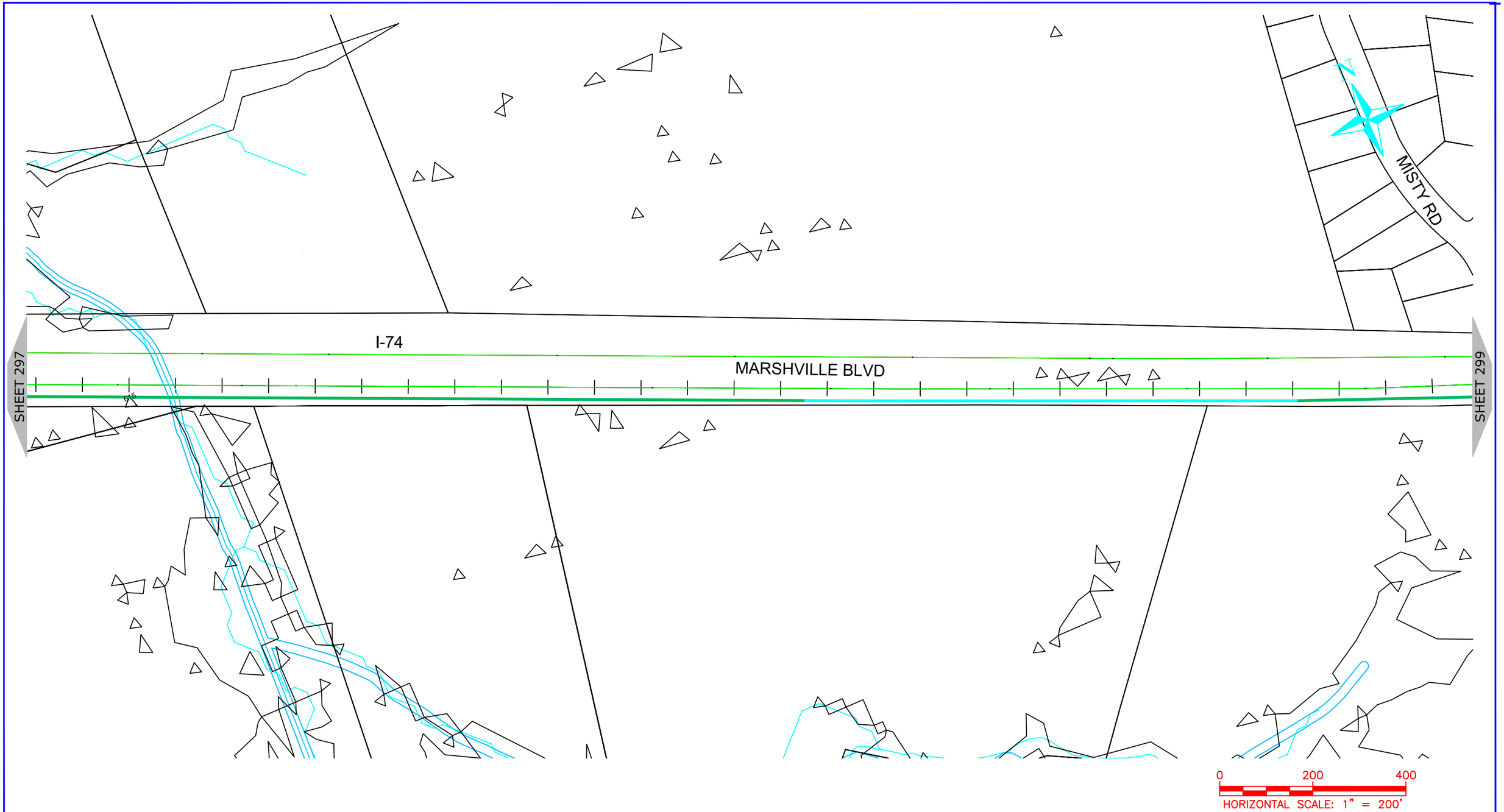
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
297

SHEET:
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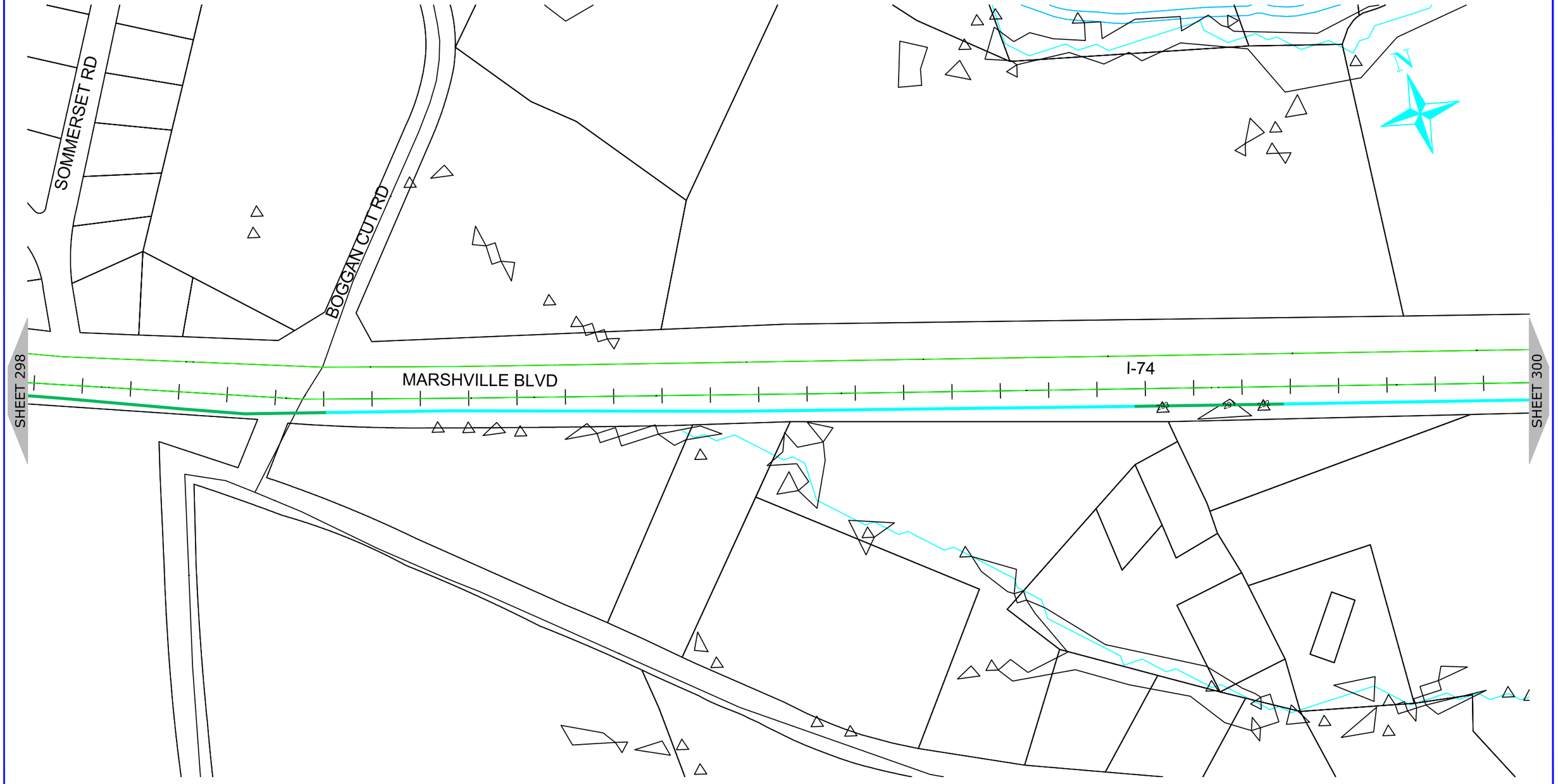
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 298

SHEET: 298

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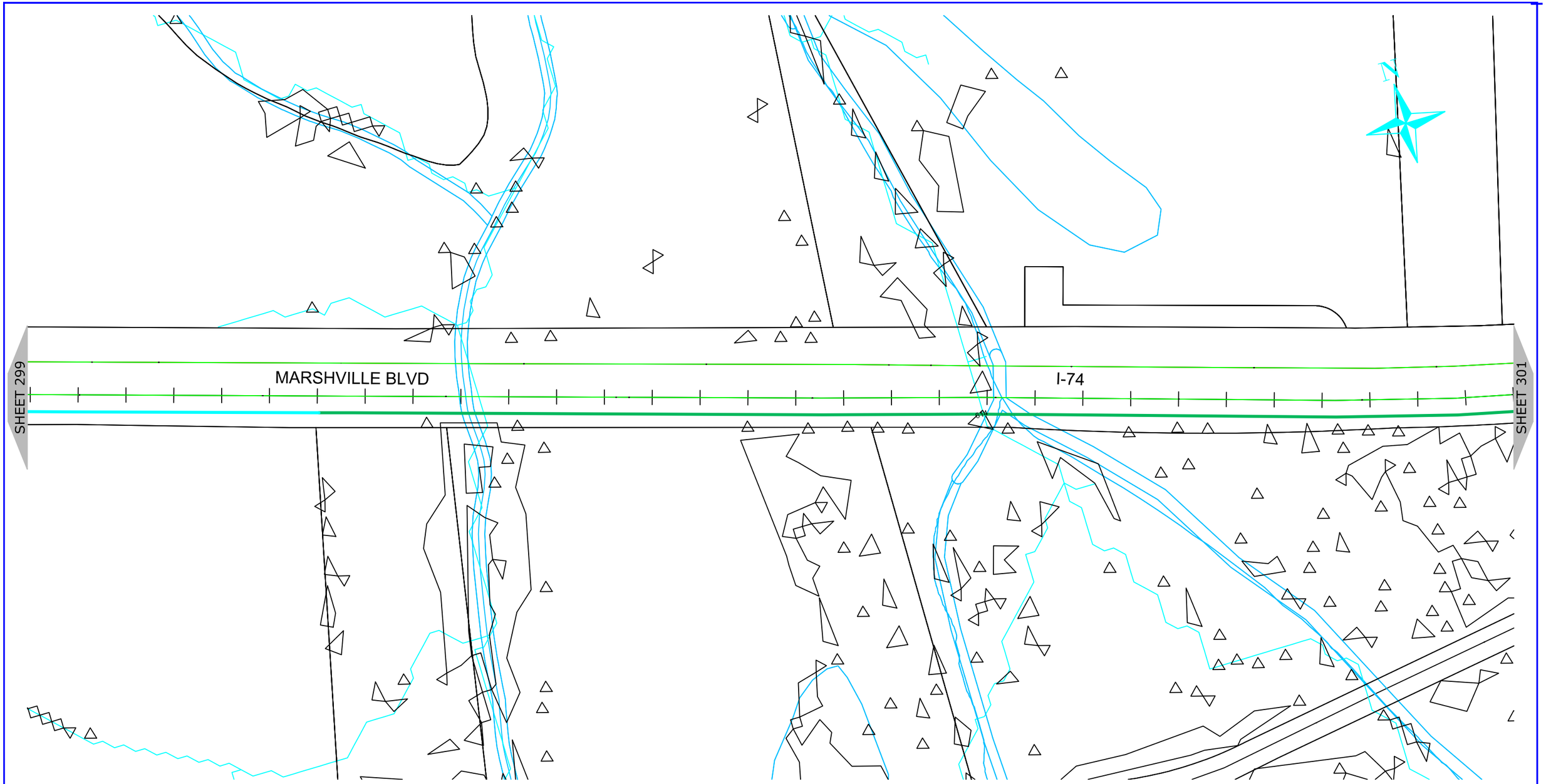
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 299

SHEET: 299

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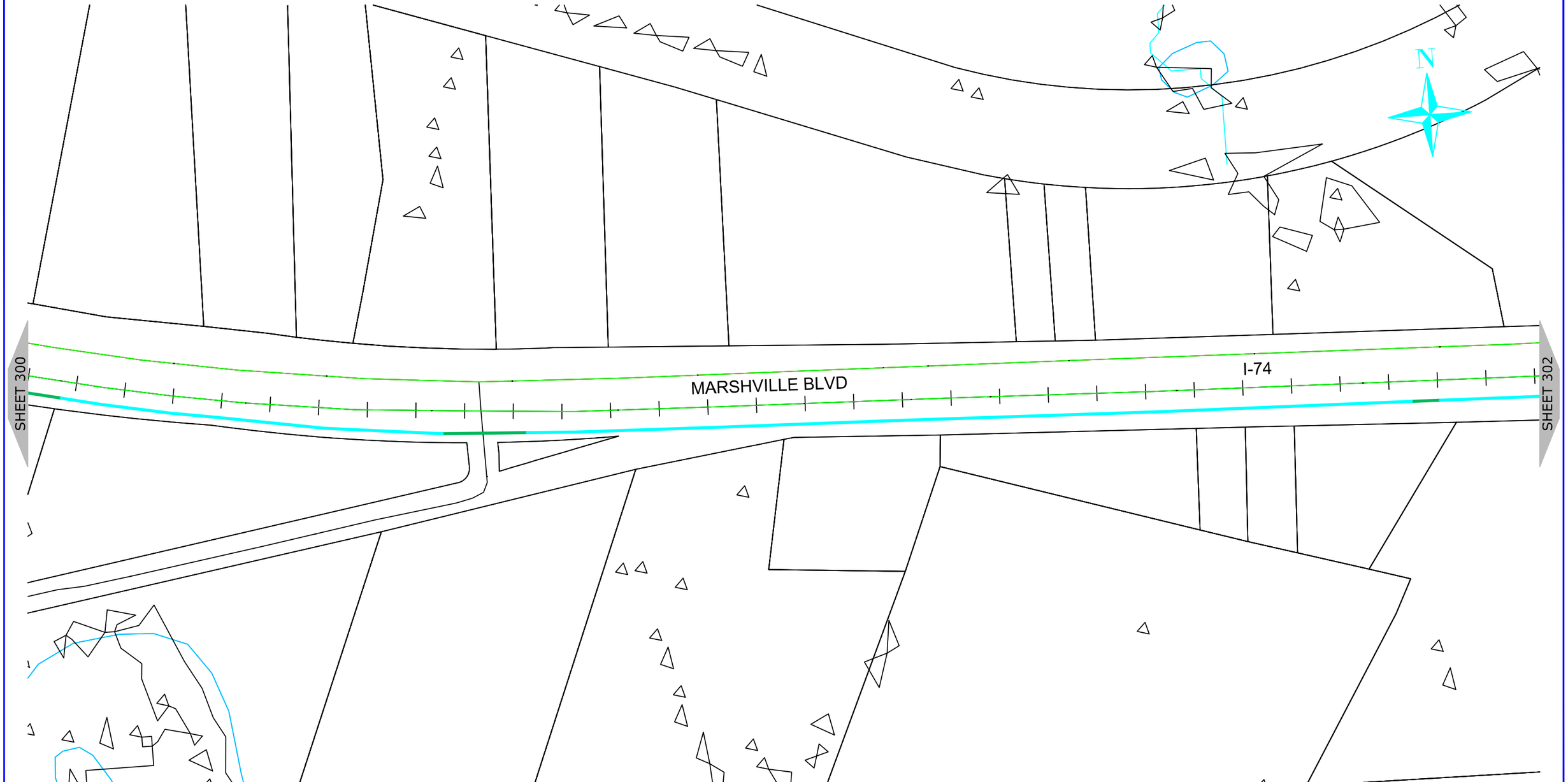
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PROJECT NAME: US-74

SHEET NAME: 300

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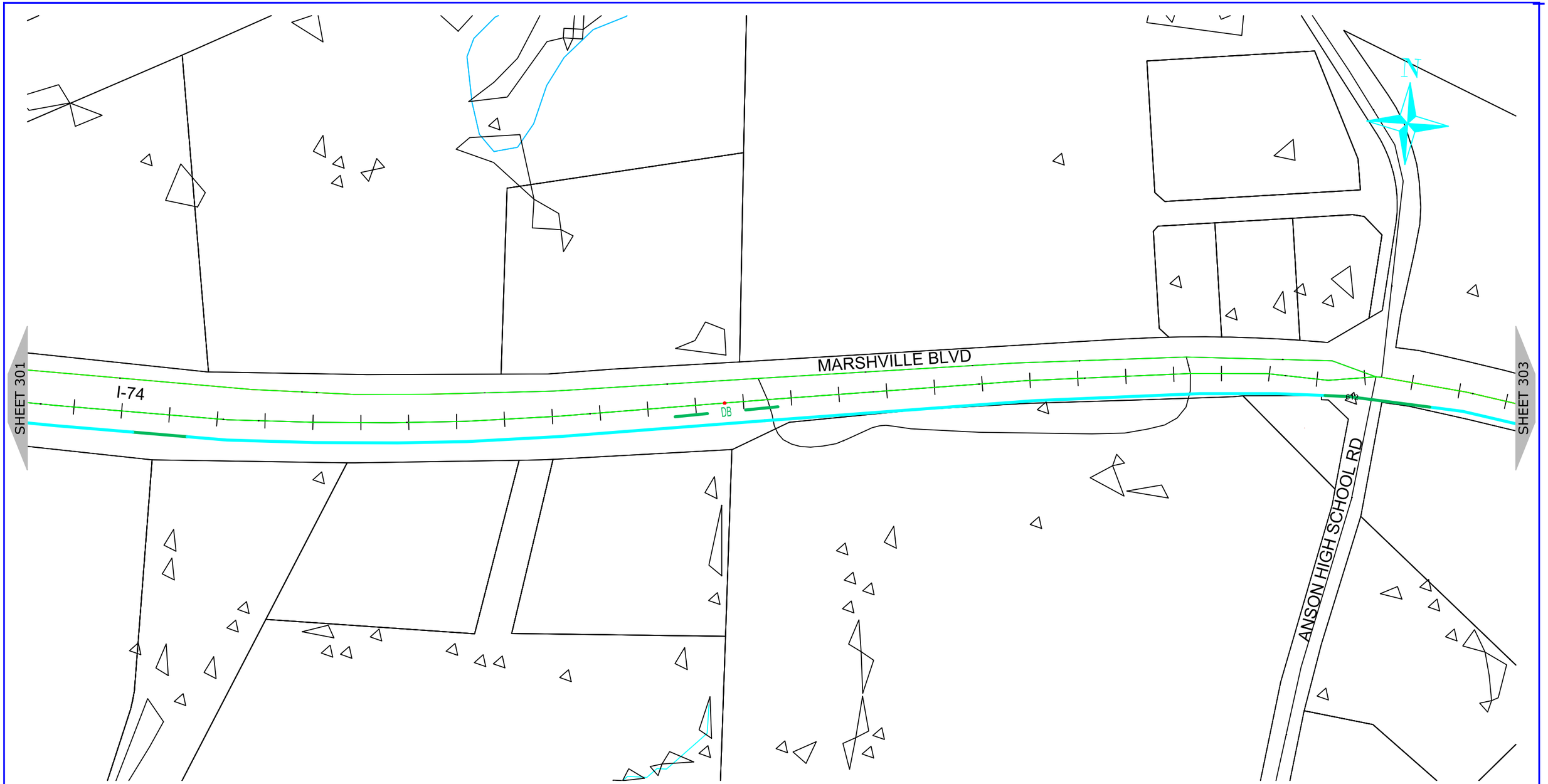
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 301

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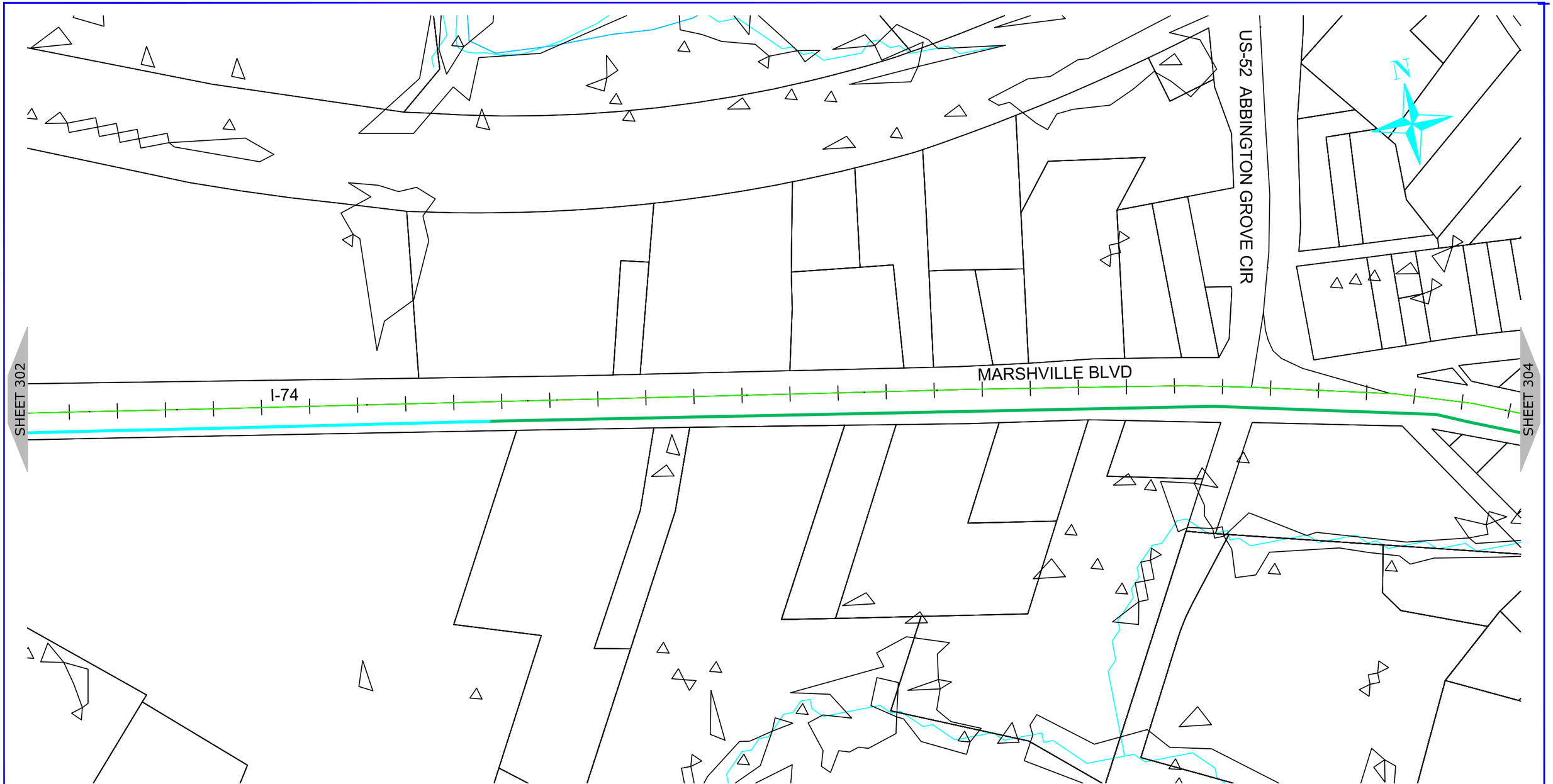
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PROJECT NAME: US-74

SHEET NAME: 302

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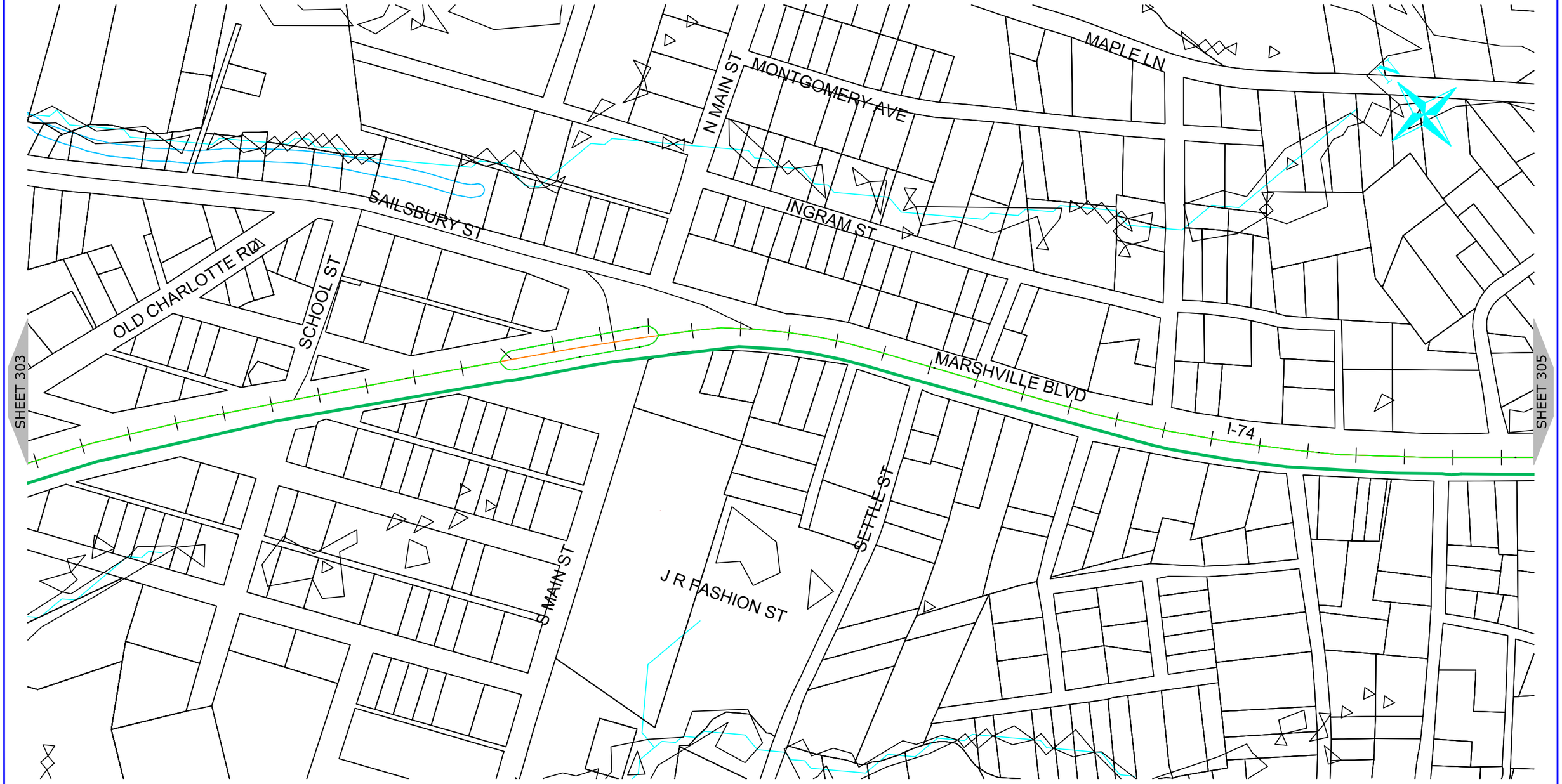
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 303

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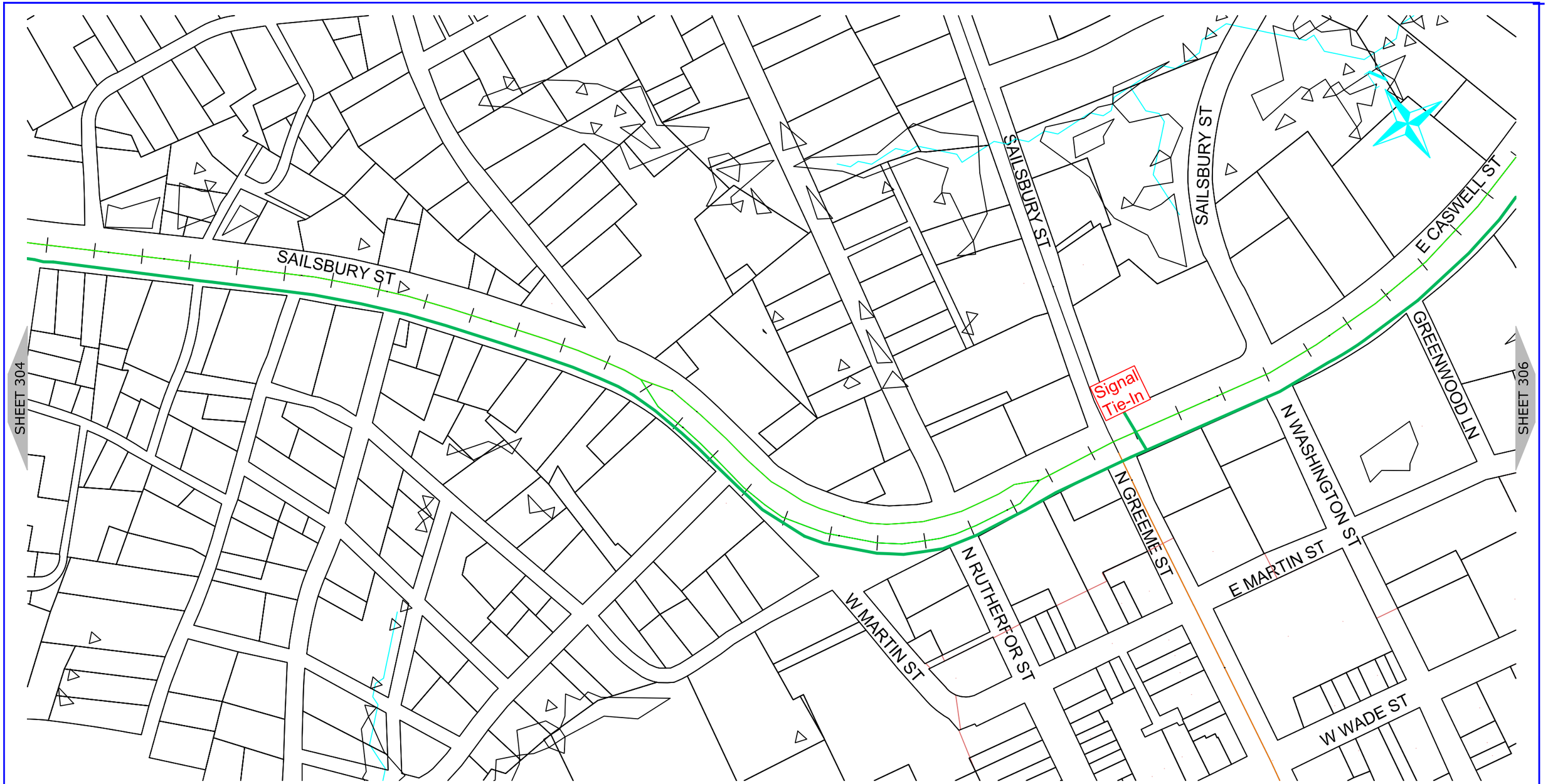
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PROJECT NAME: US-74

SHEET NAME: 304

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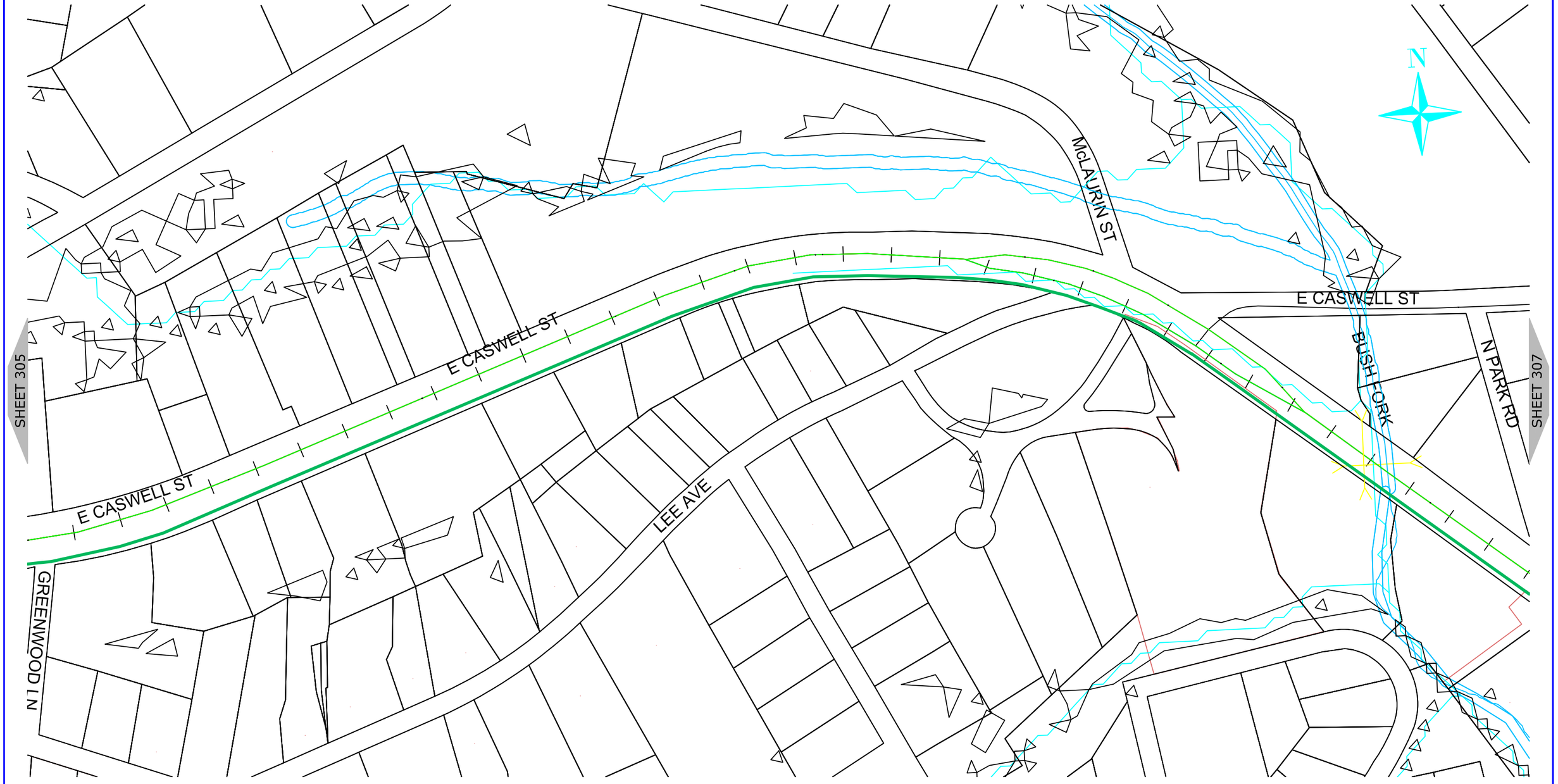
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PROJECT NAME: US-74

SHEET NAME: 305

SHEET: 305

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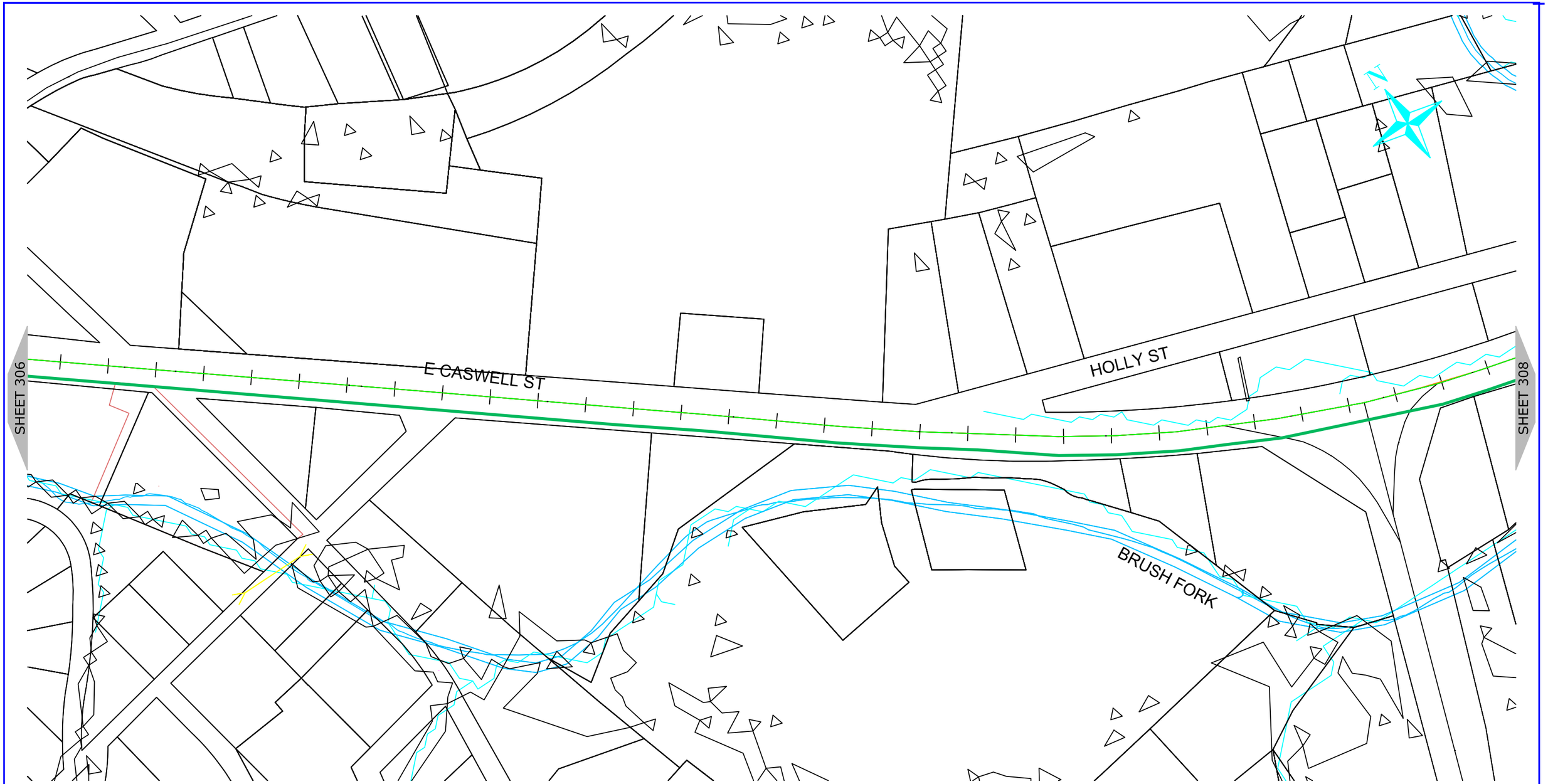
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
306

SHEET:
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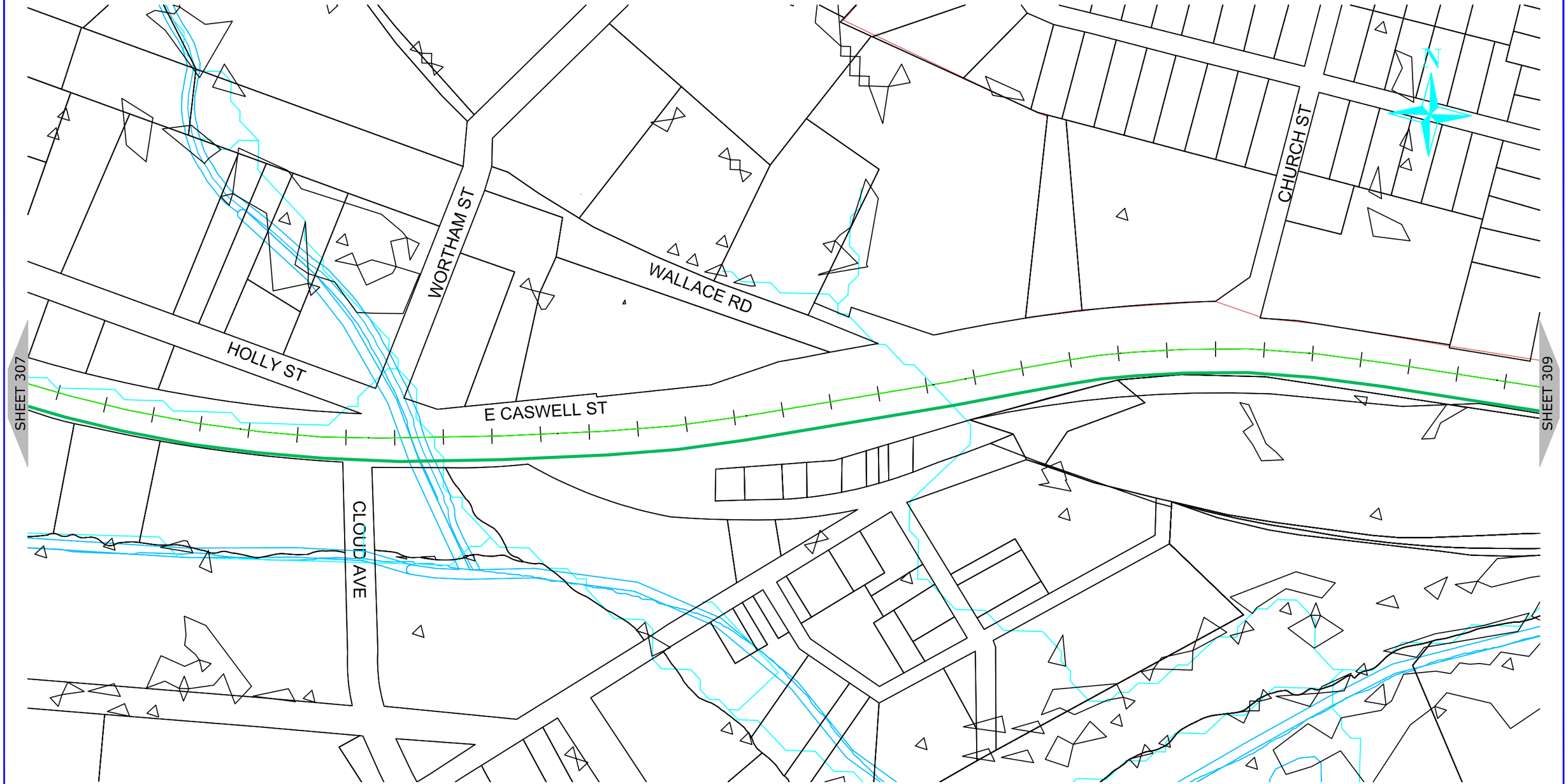
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PROJECT NAME:
US-74

SHEET NAME:
307

SHEET:
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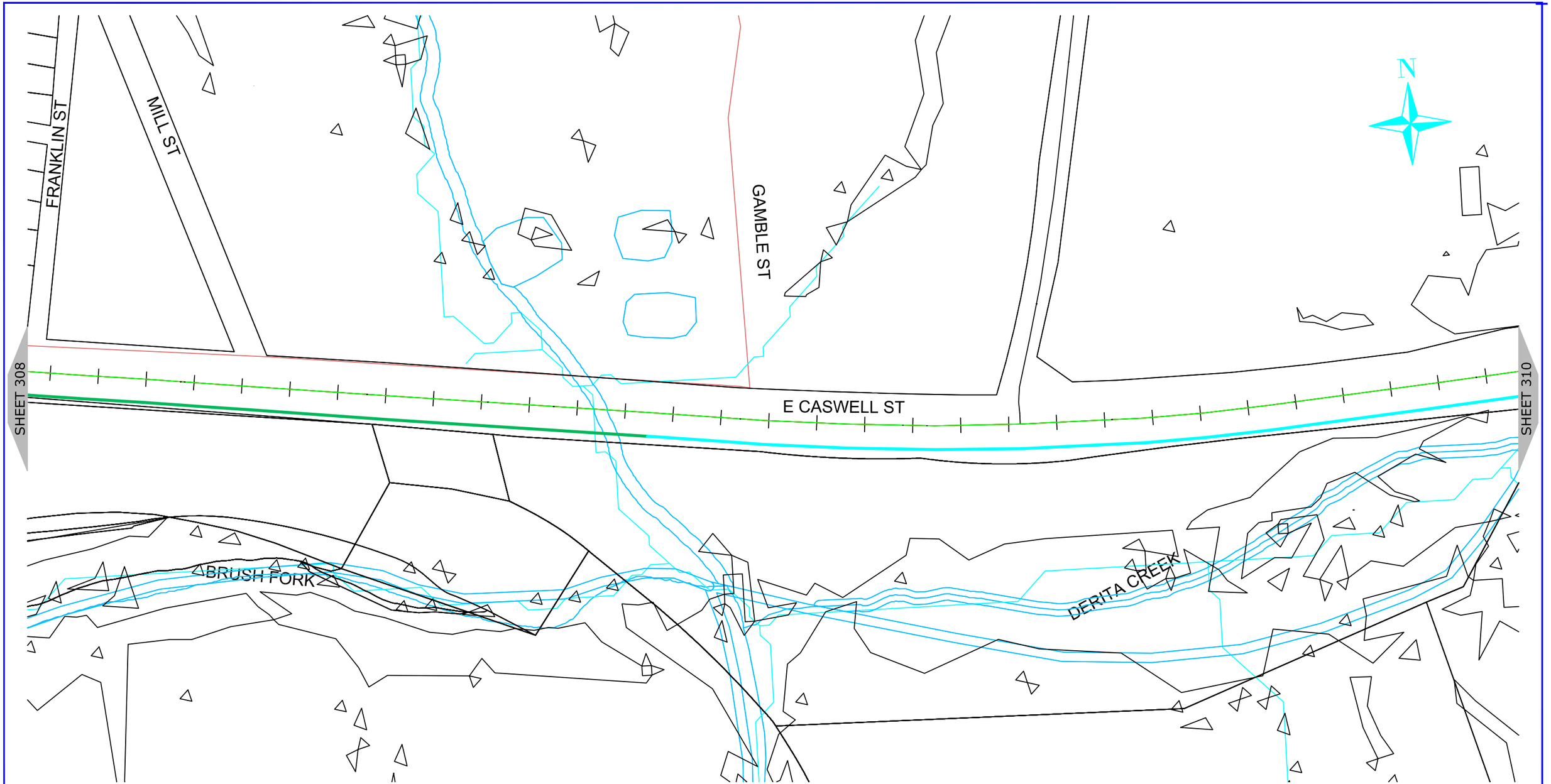
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 308

SHEET: 308

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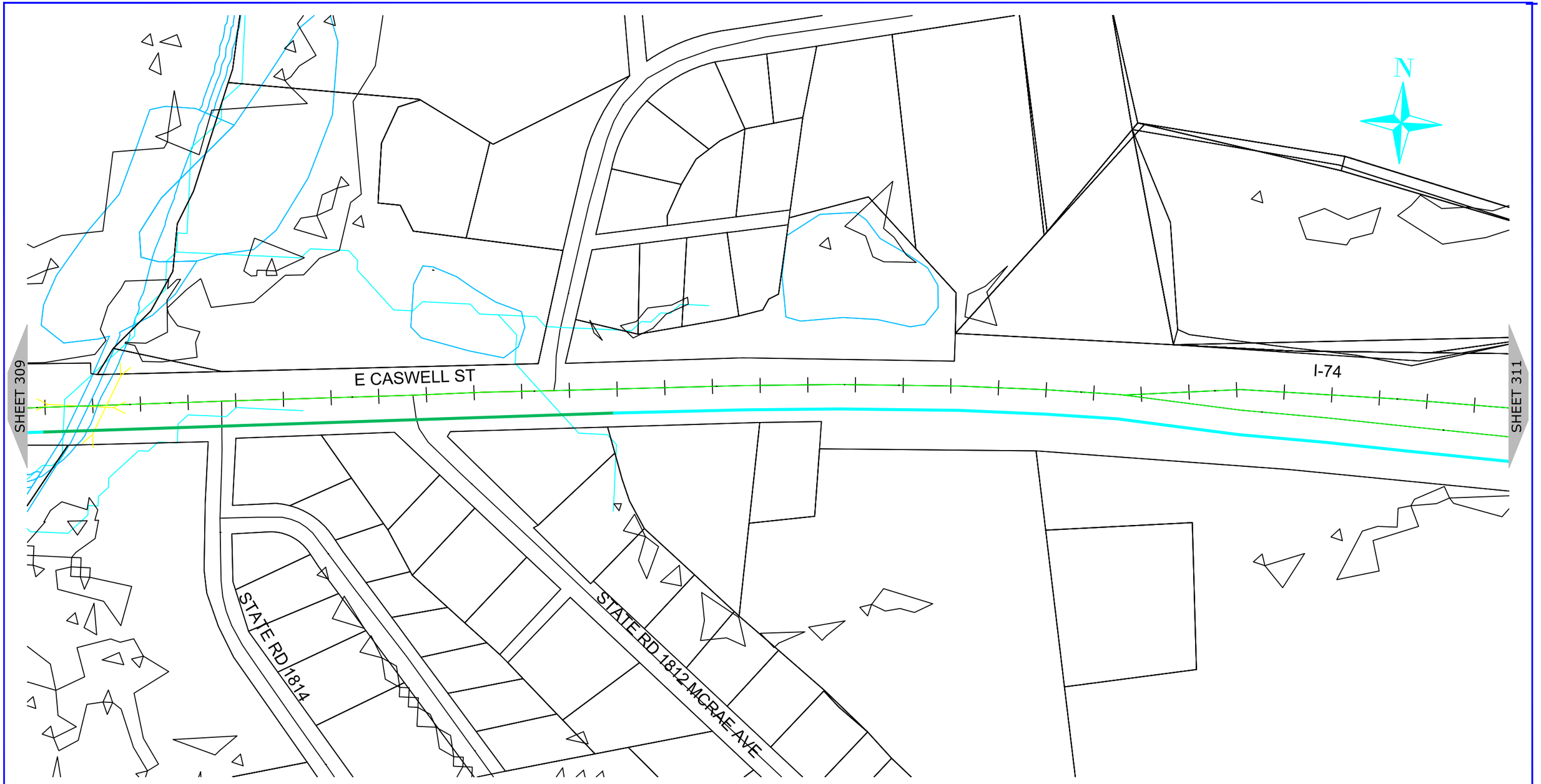
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 309

SHEET: 309

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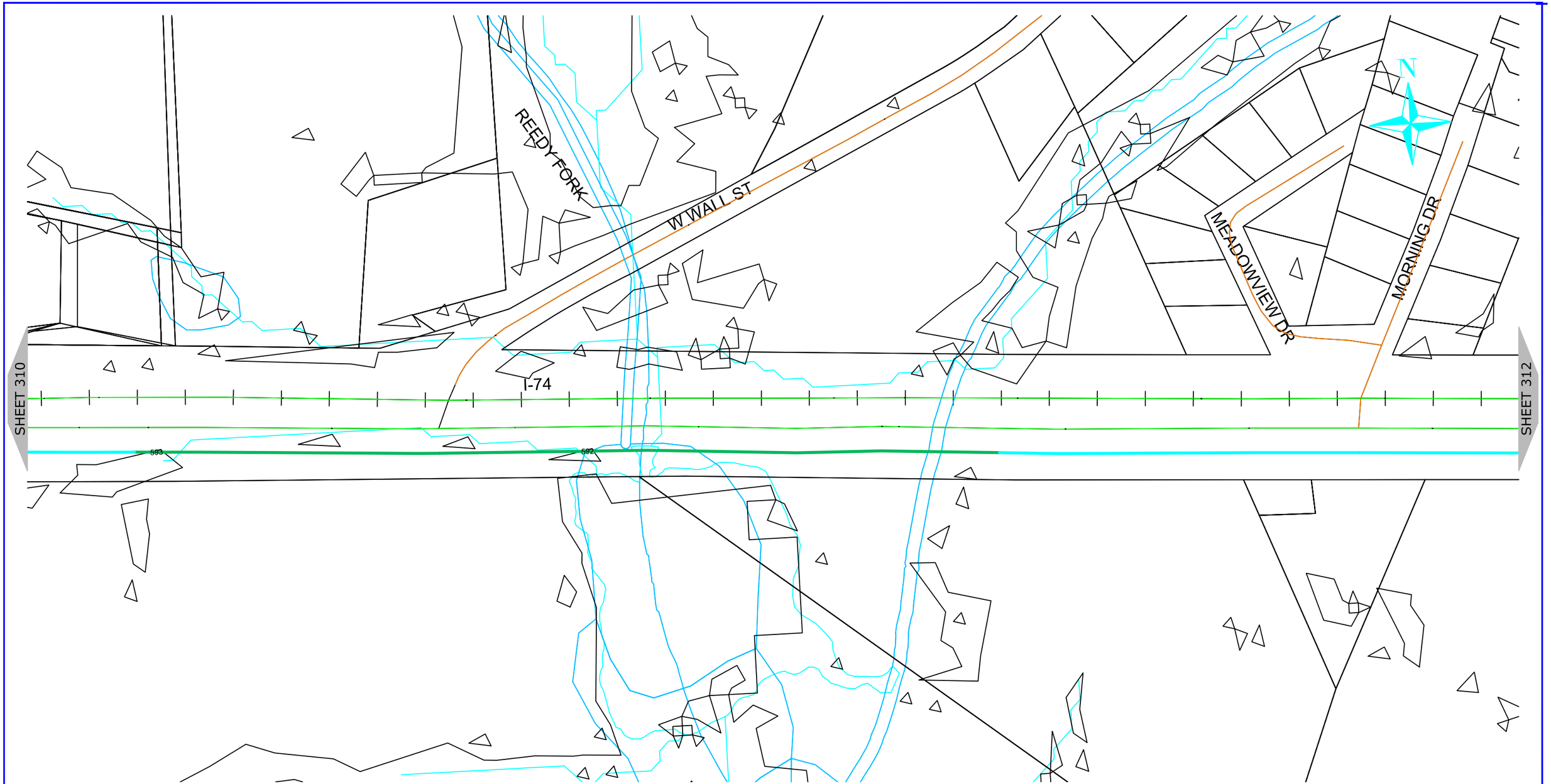
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PROJECT NAME: US-74

SHEET NAME: 310

SHEET: 310

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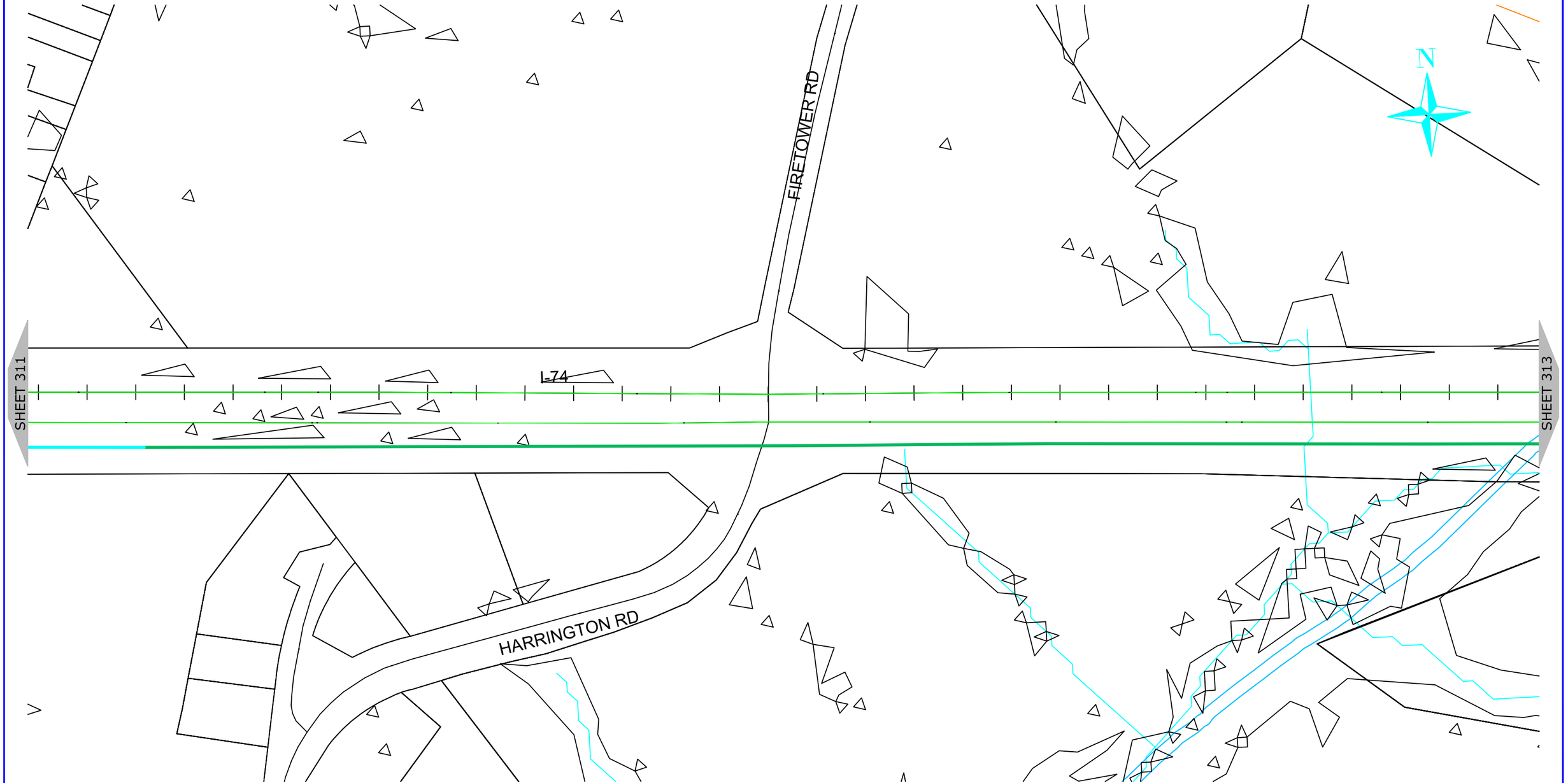
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PROJECT NAME: US-74

SHEET NAME: 311

SHEET: 311

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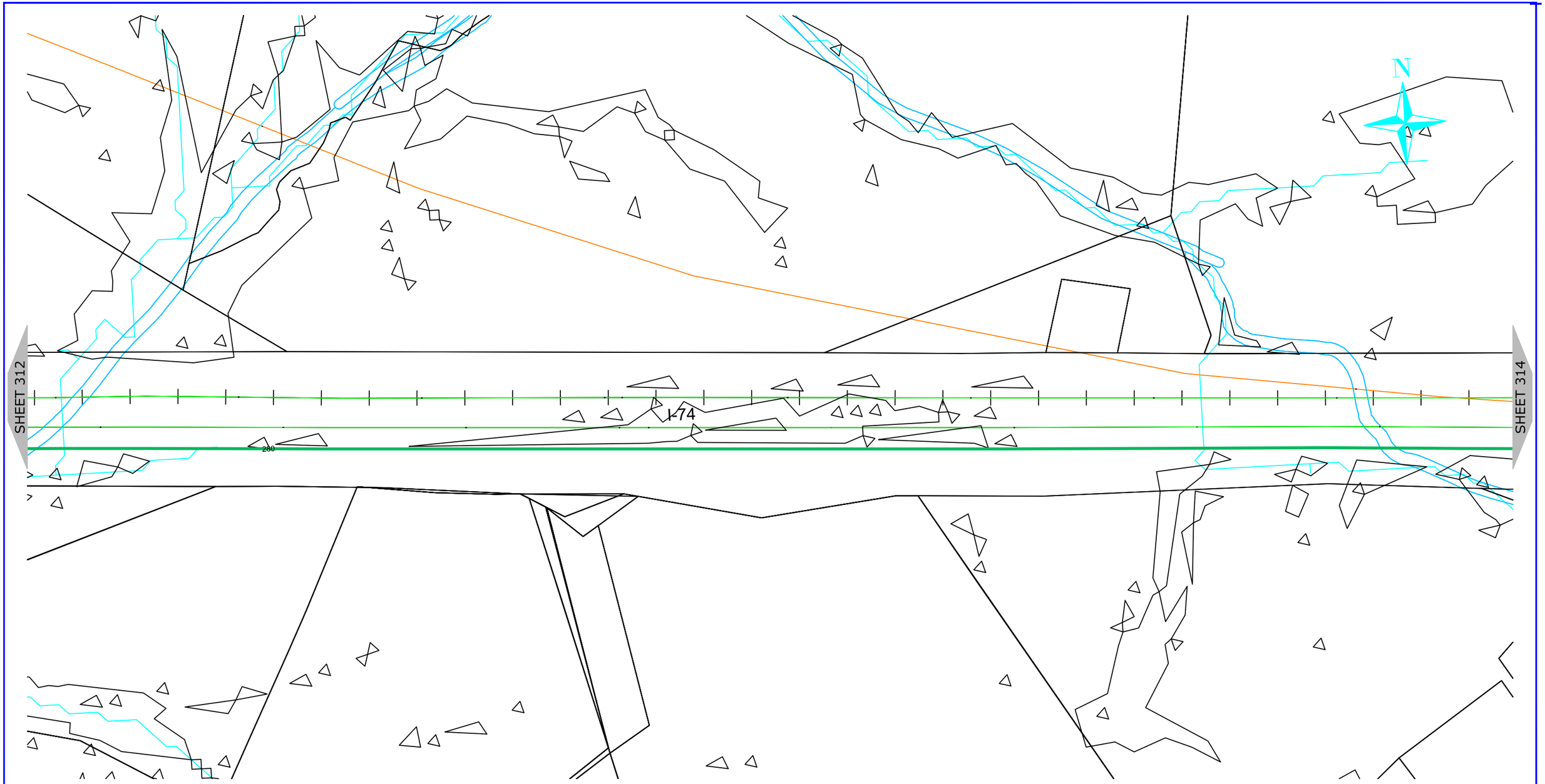
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 312

SHEET: 312

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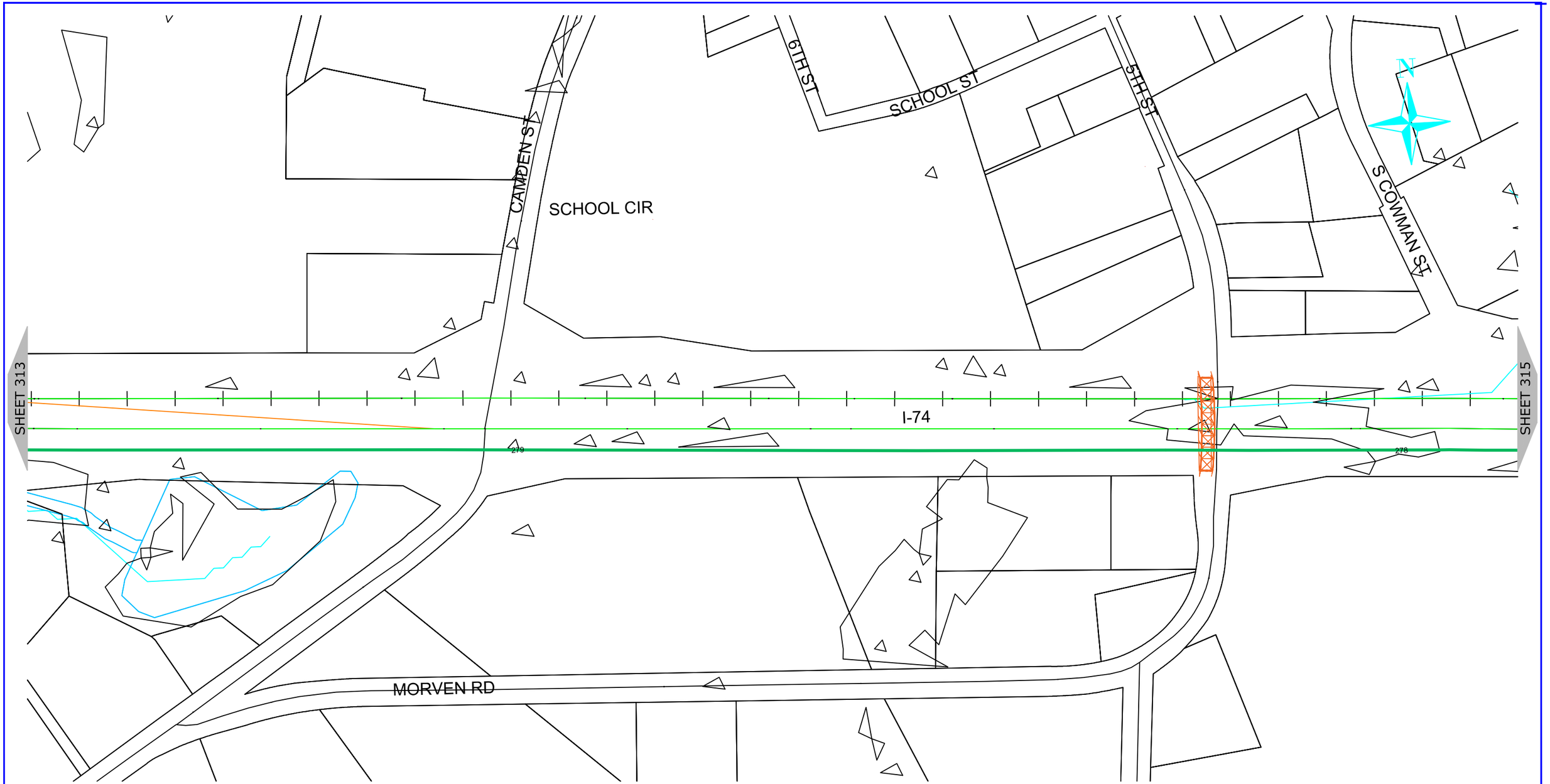
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 313

SHEET: 313

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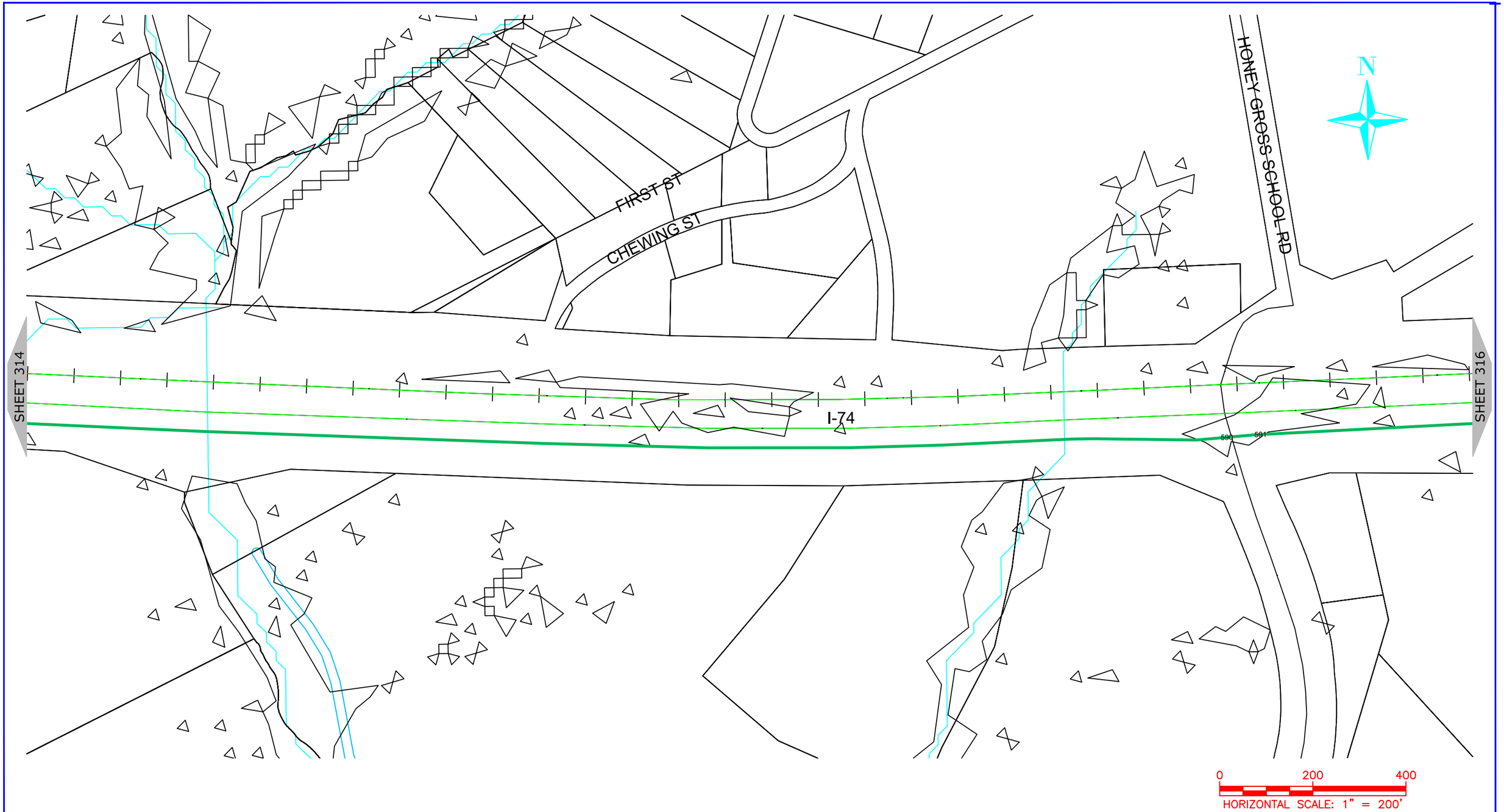
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
314

SHEET:
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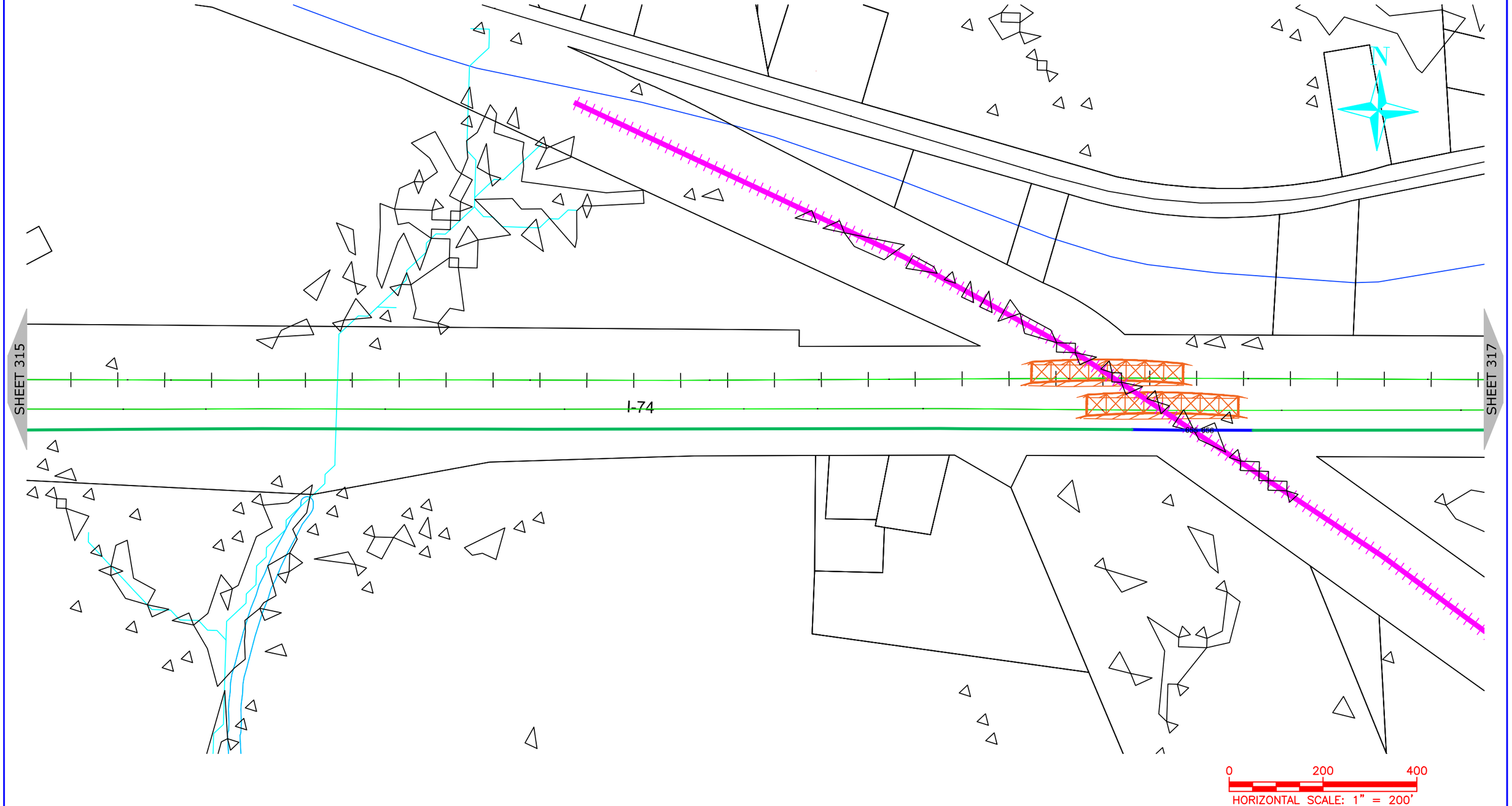
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
315

SHEET:
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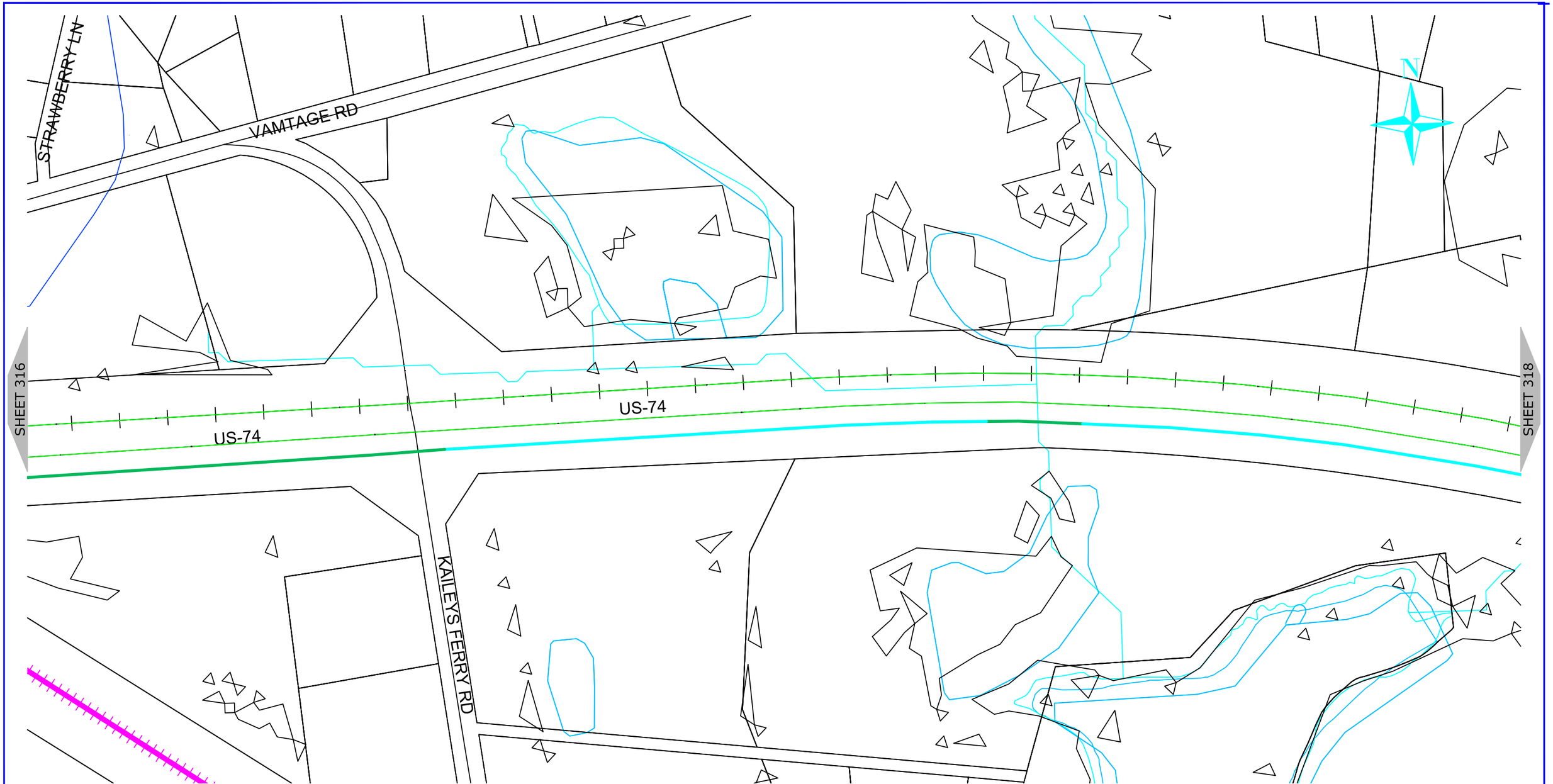
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 316

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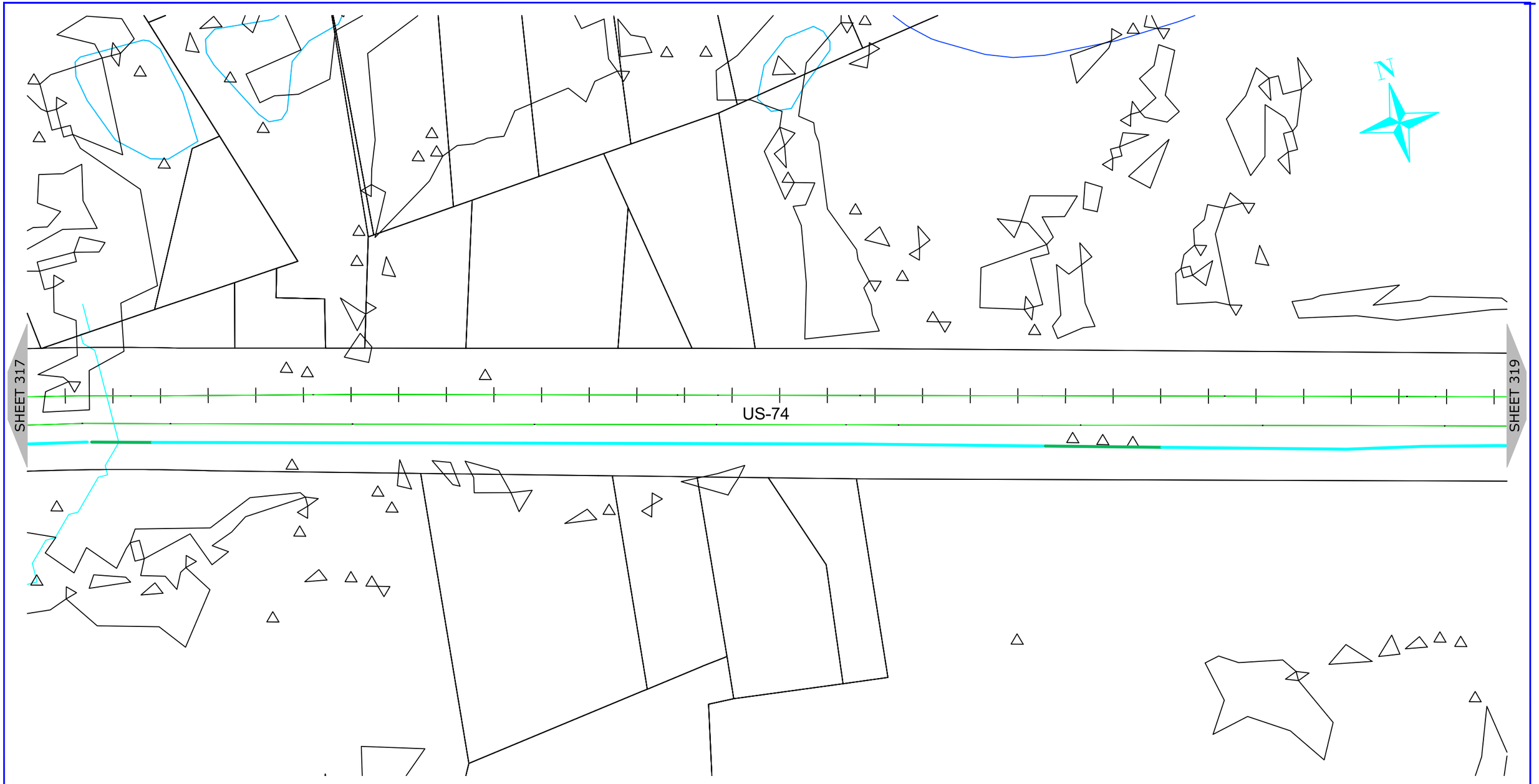
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PROJECT NAME:
US-74

SHEET NAME:
317

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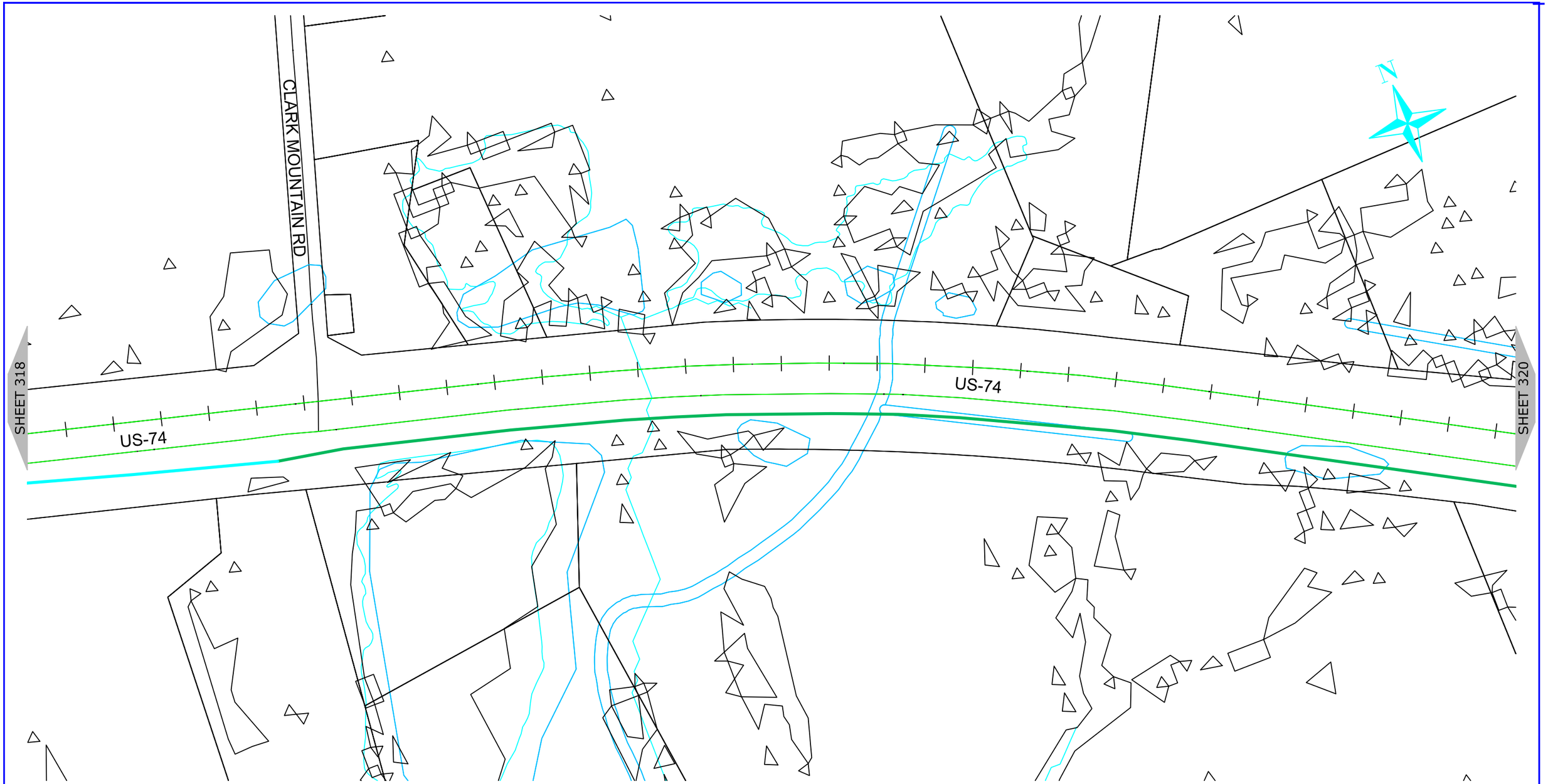
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DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 318

SHEET: 318

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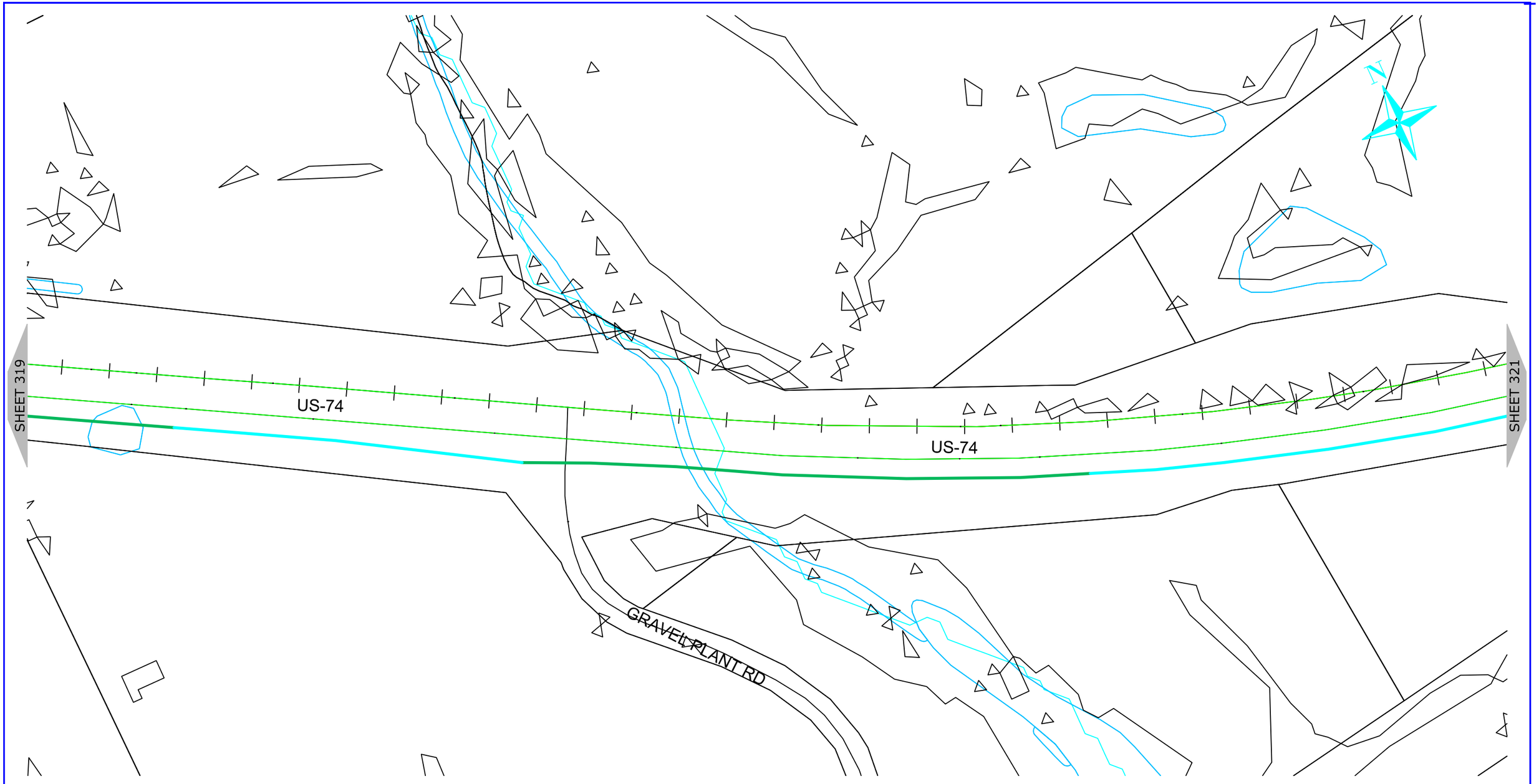
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 319

SHEET: 319

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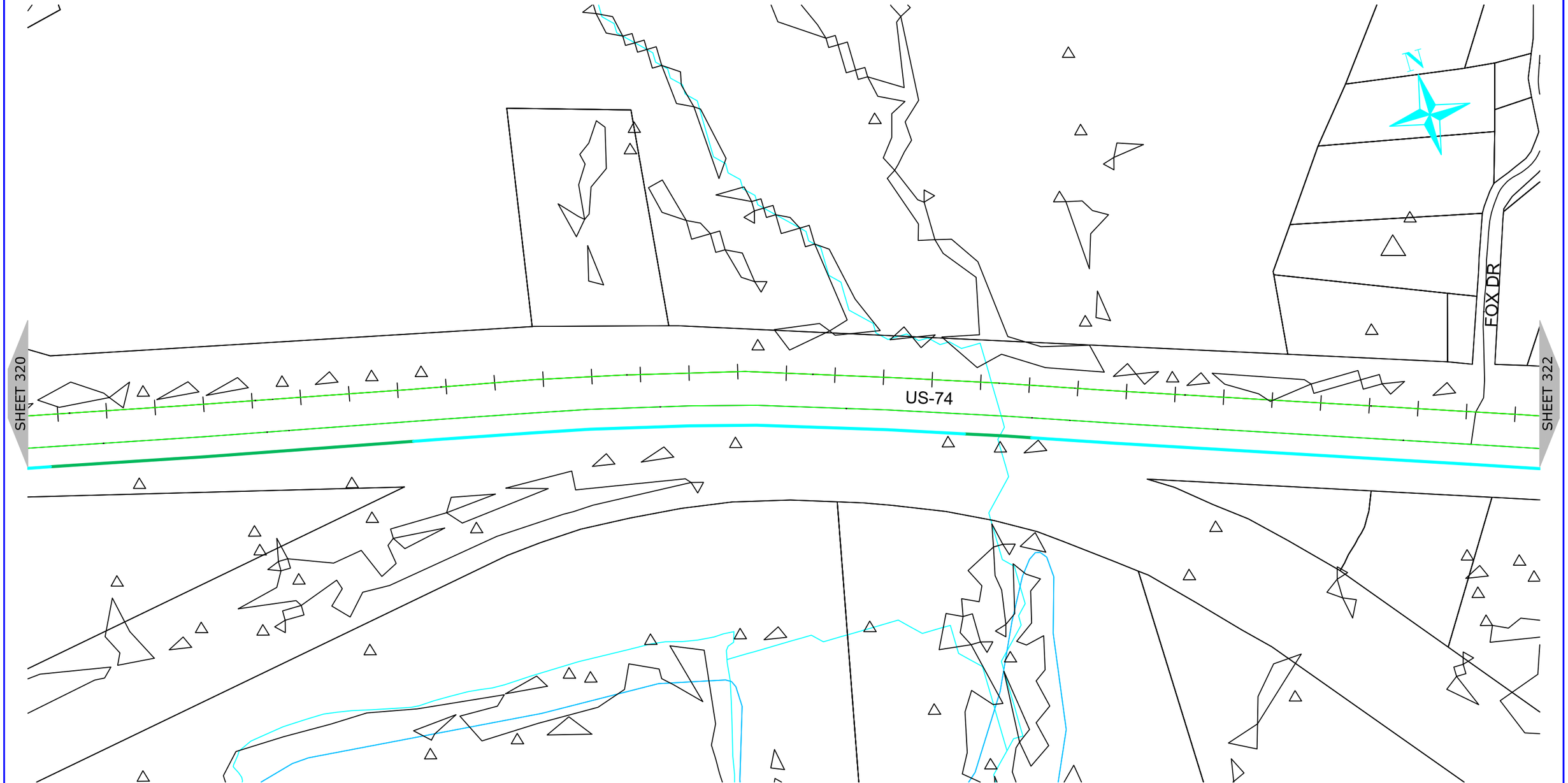
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 320

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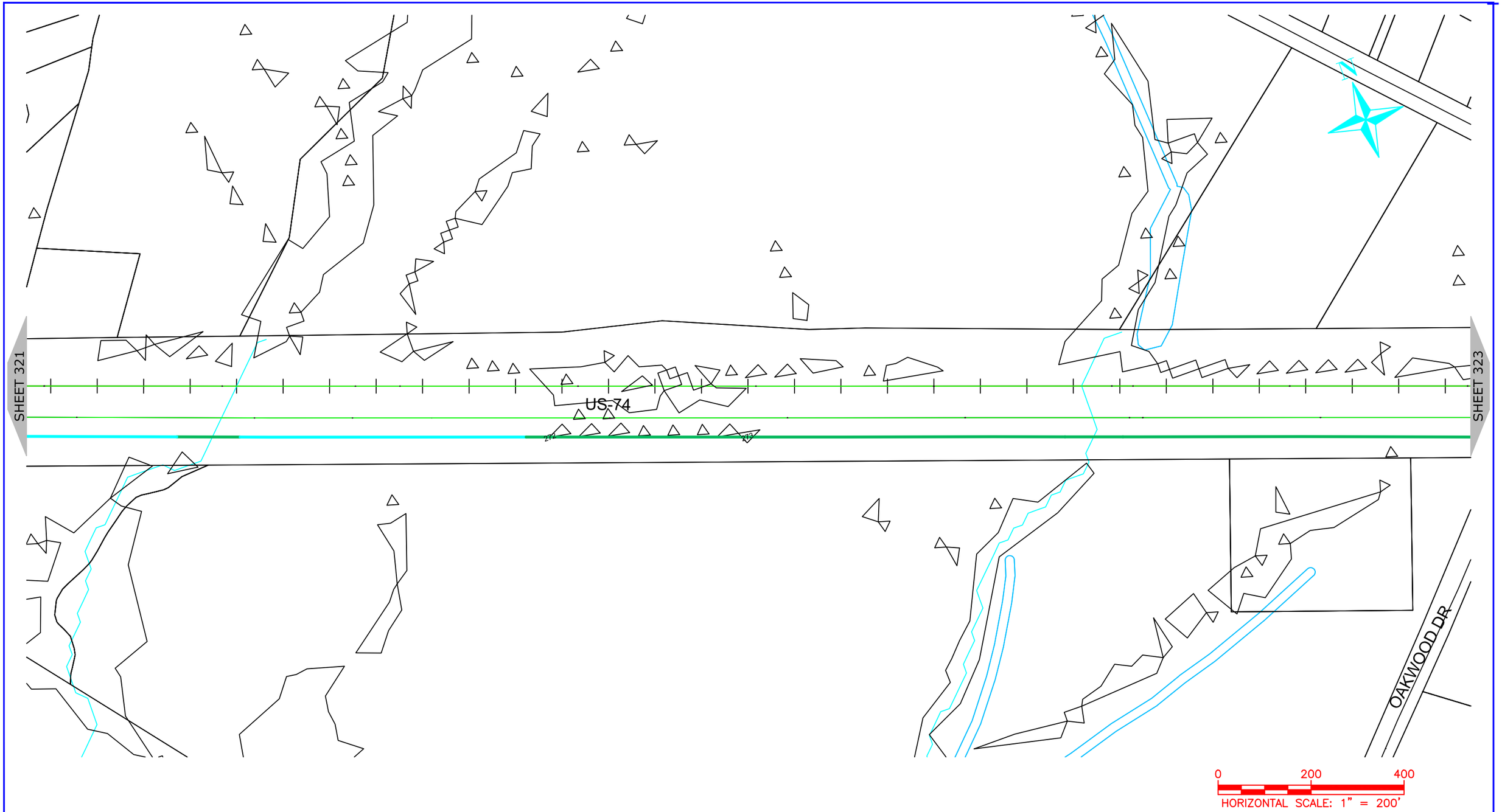
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 321

SHEET: 321

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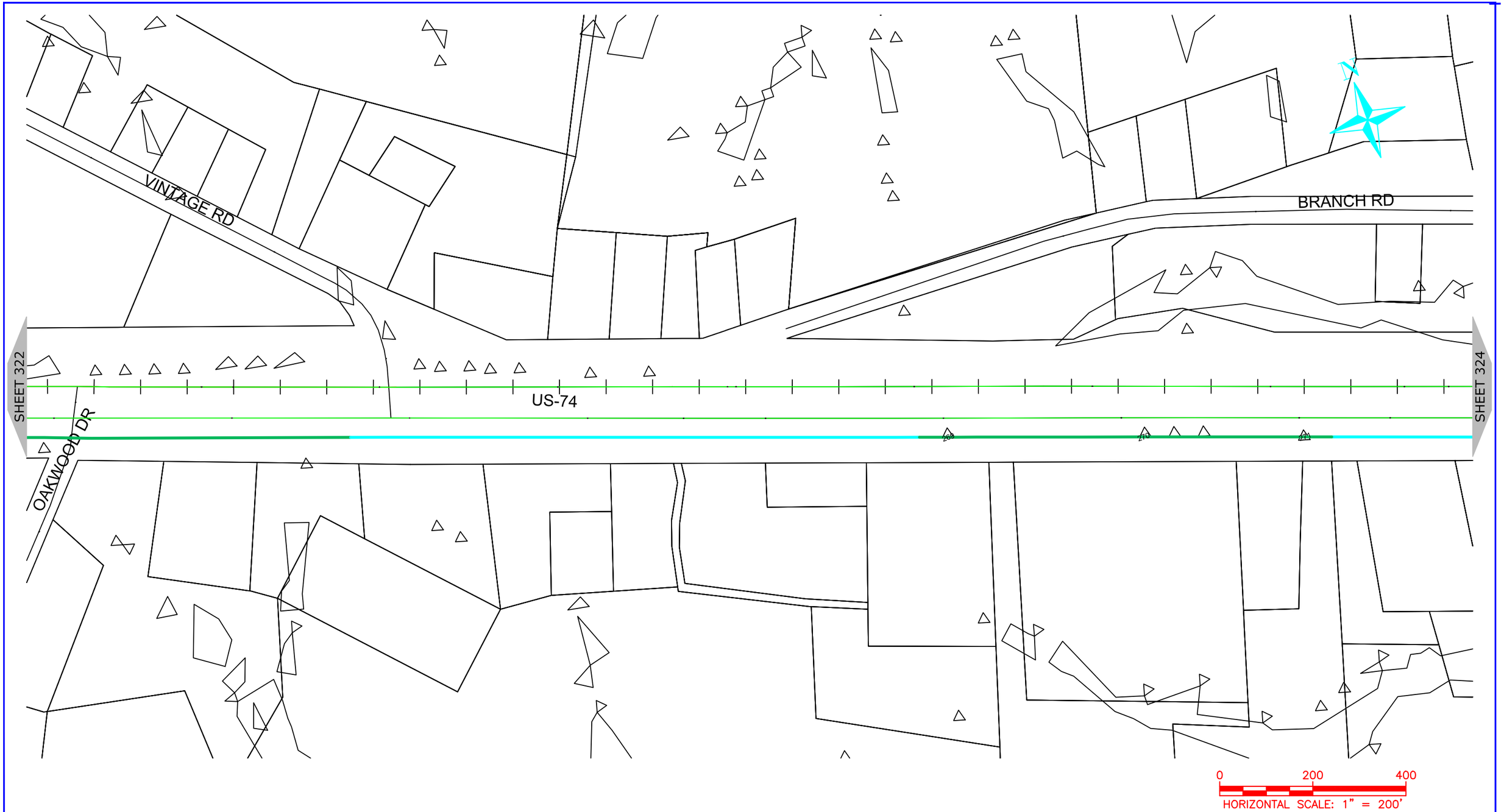
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PROJECT NAME: US-74

SHEET NAME: 322

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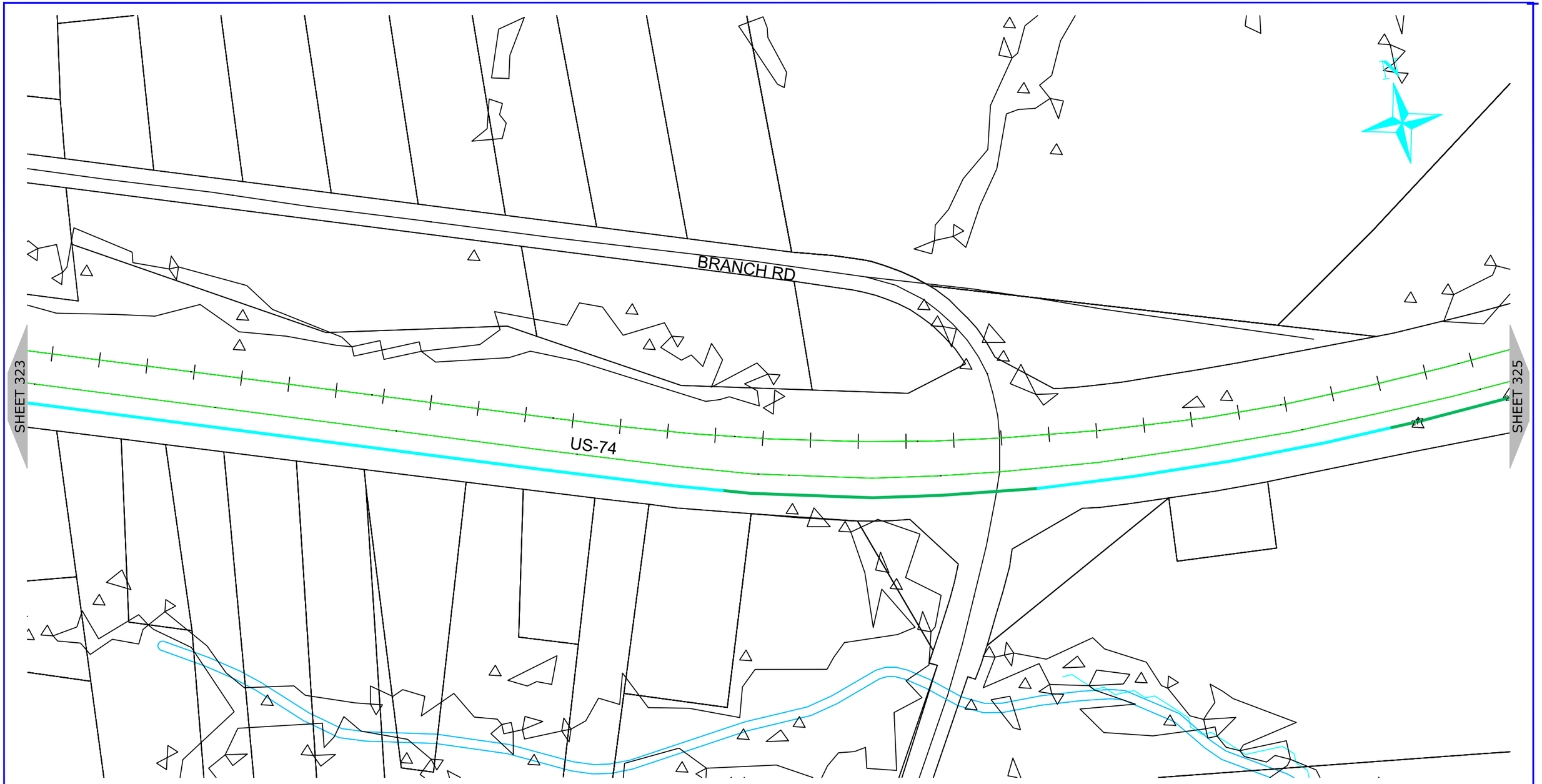
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
323

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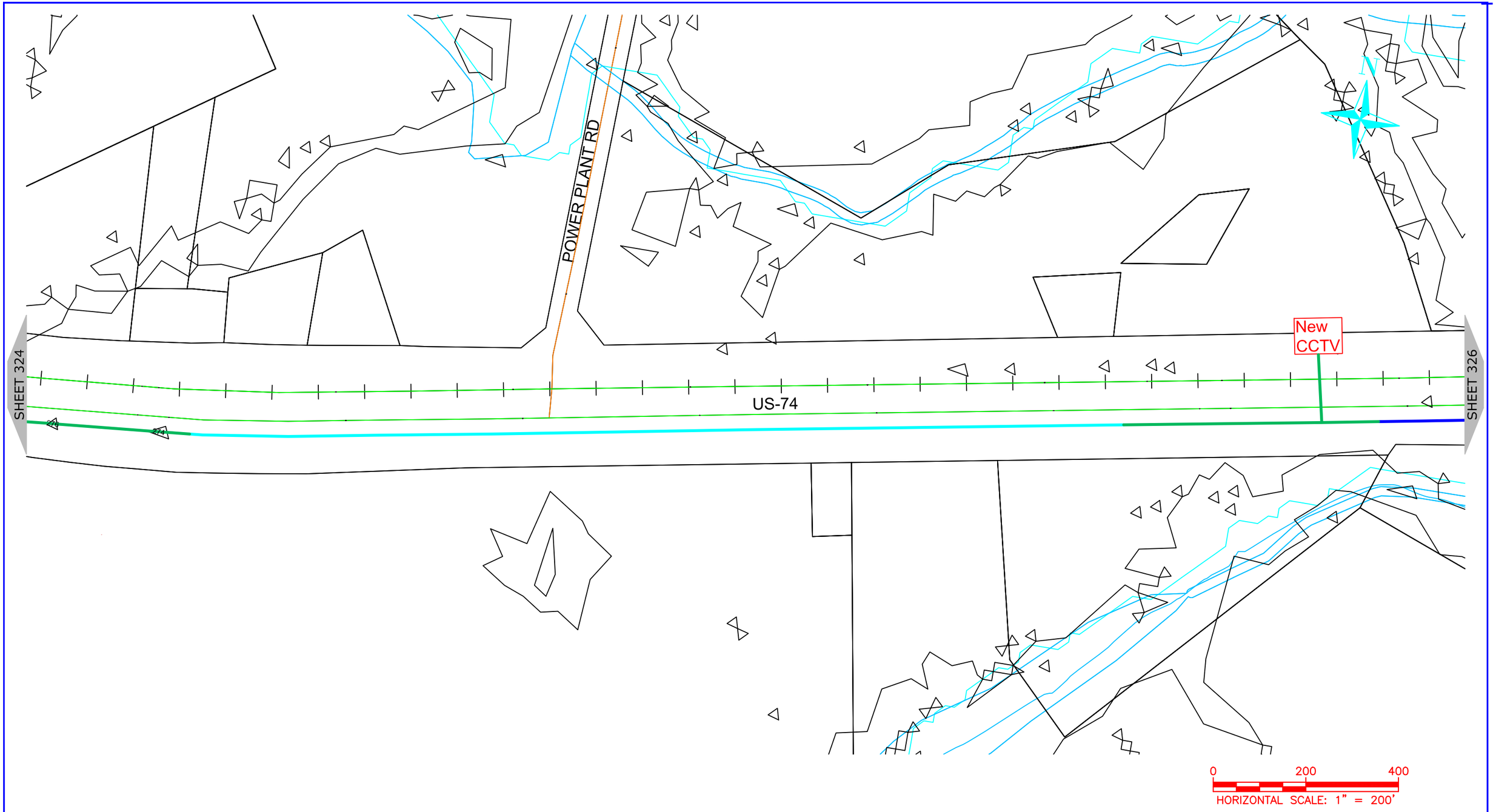
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PROJECT NAME: US-74

SHEET NAME: 324

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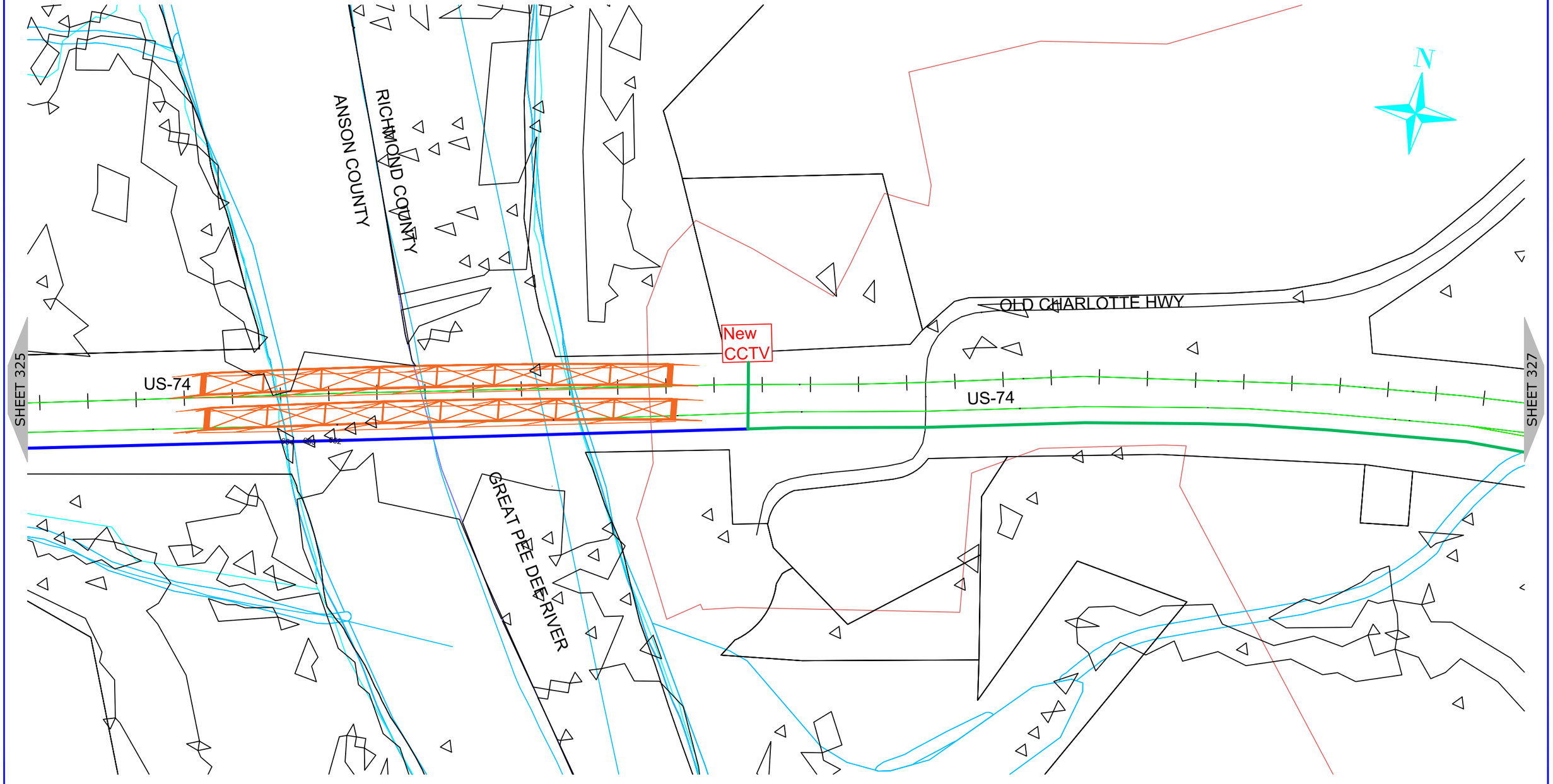
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PROJECT NAME:
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SHEET NAME:
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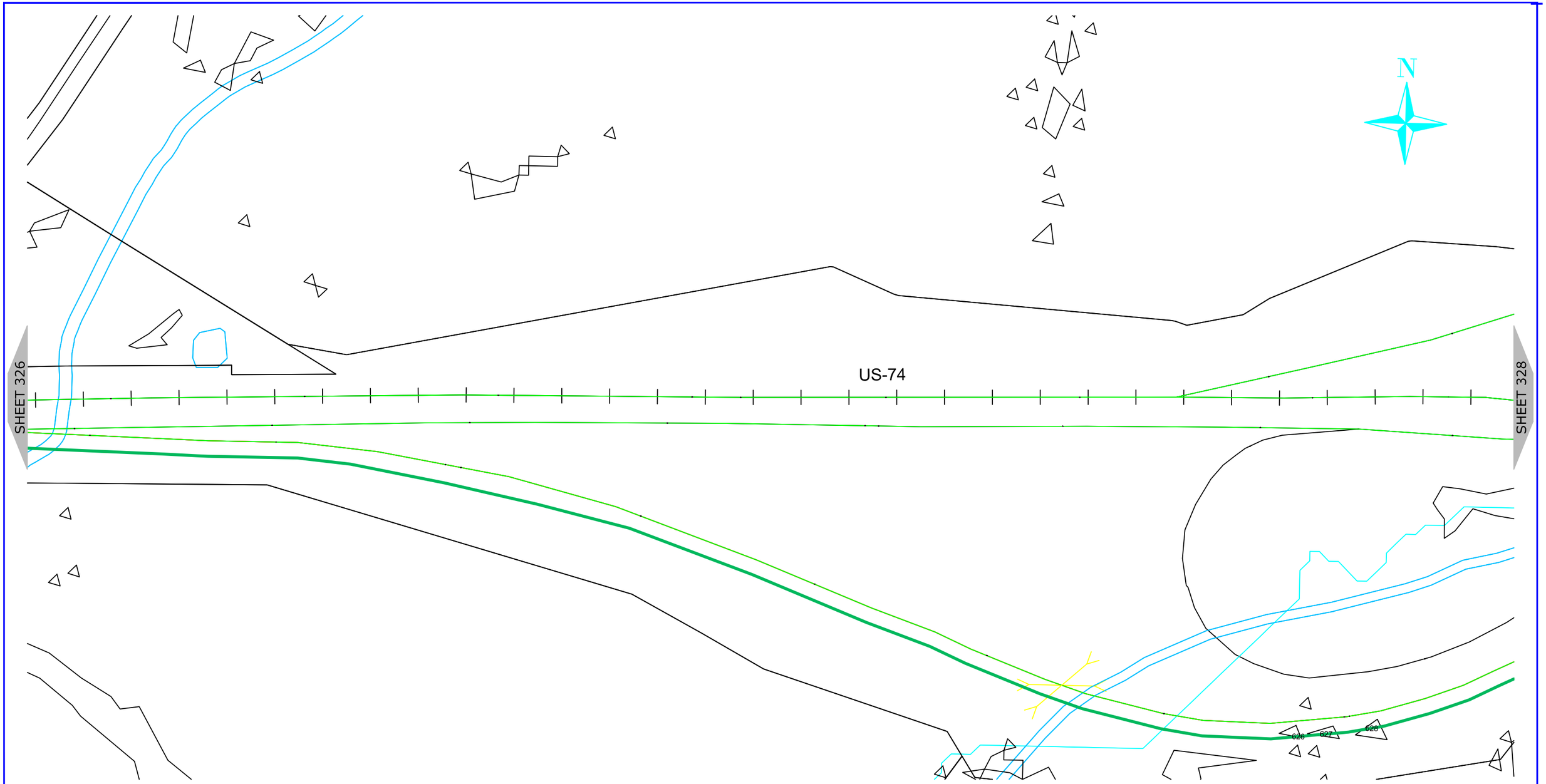
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PROJECT NAME: US-74

SHEET NAME: 326

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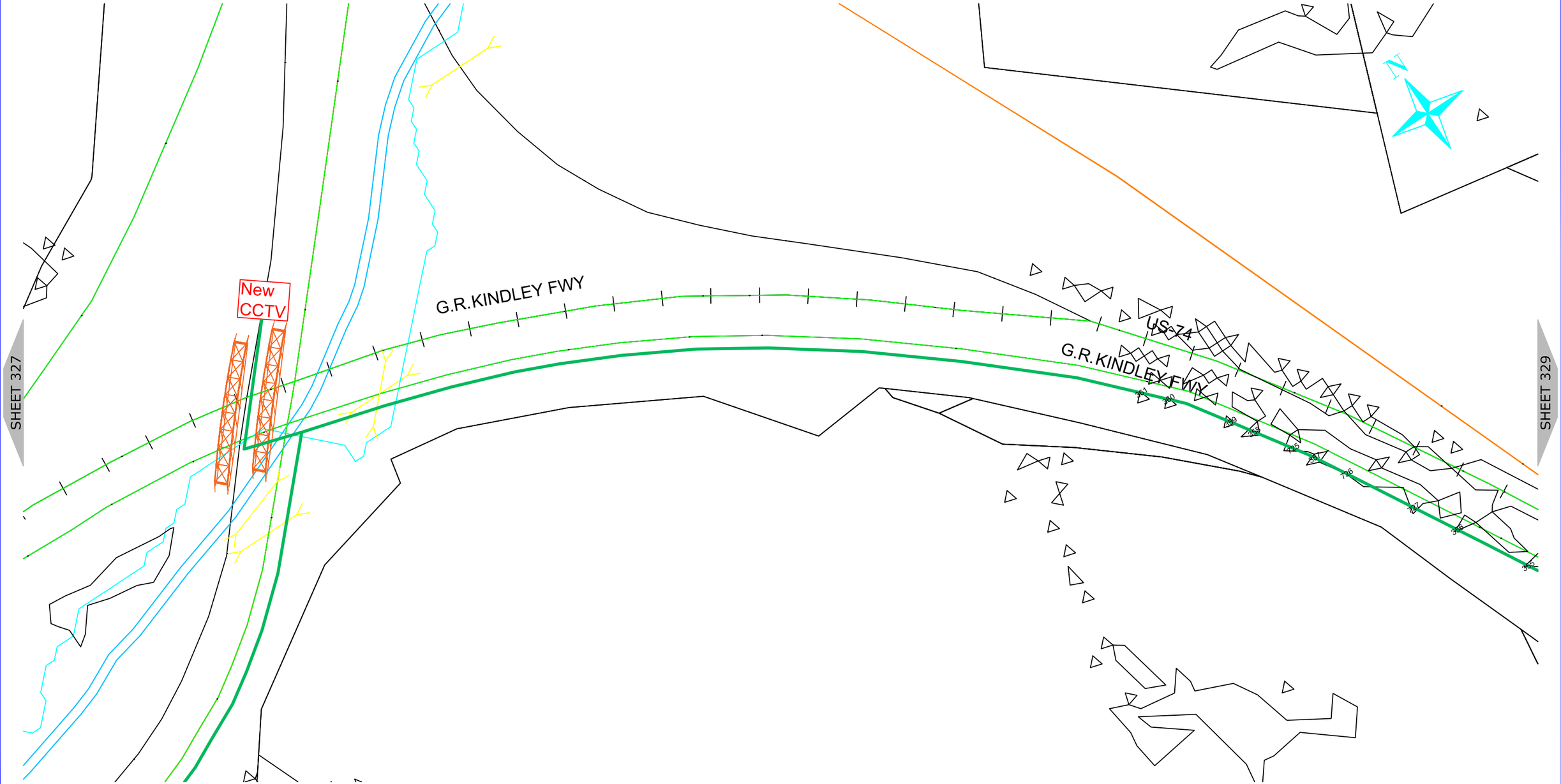
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PROJECT NAME: US-74

SHEET NAME: 327

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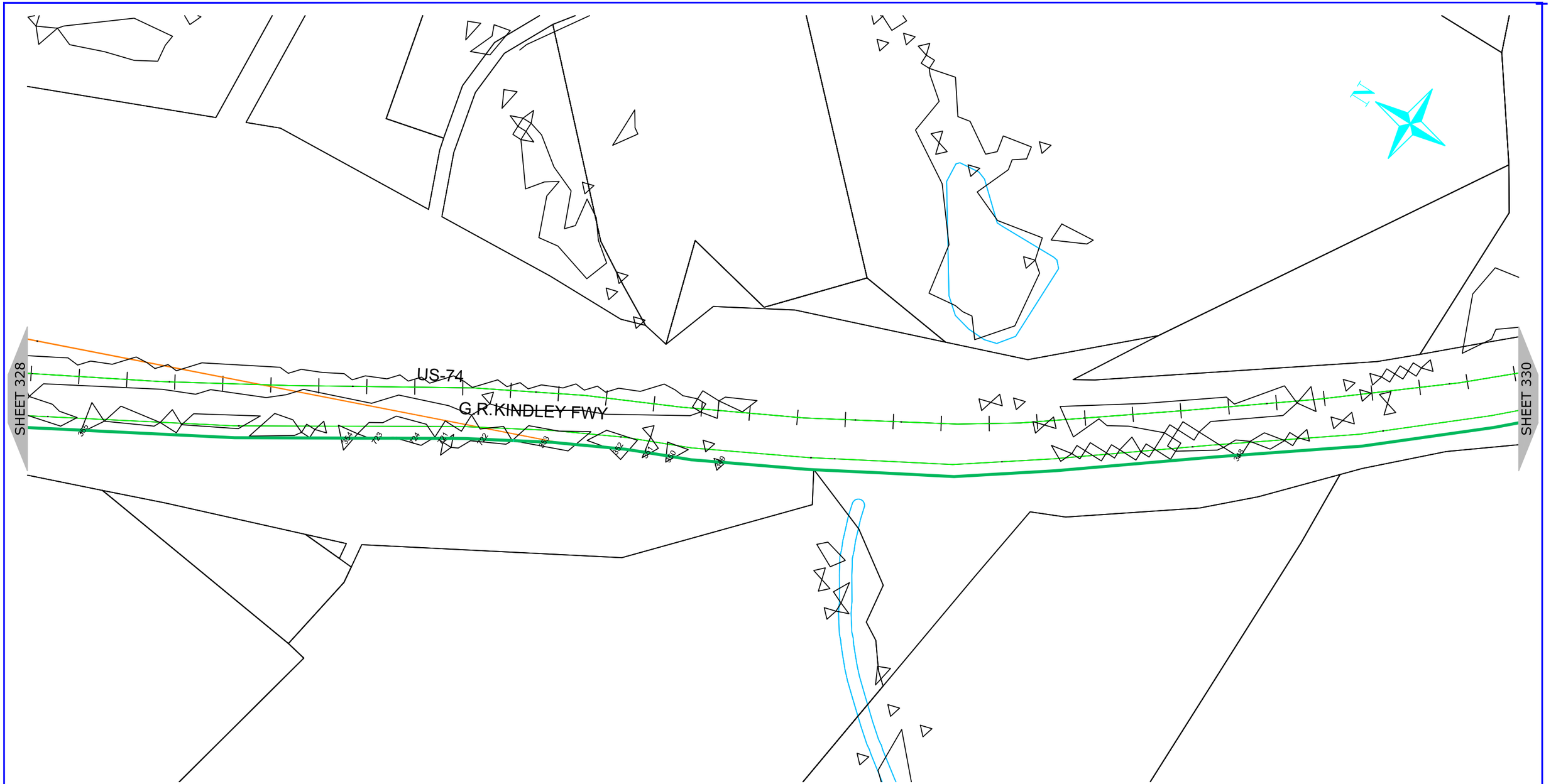
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PROJECT NAME: US-74

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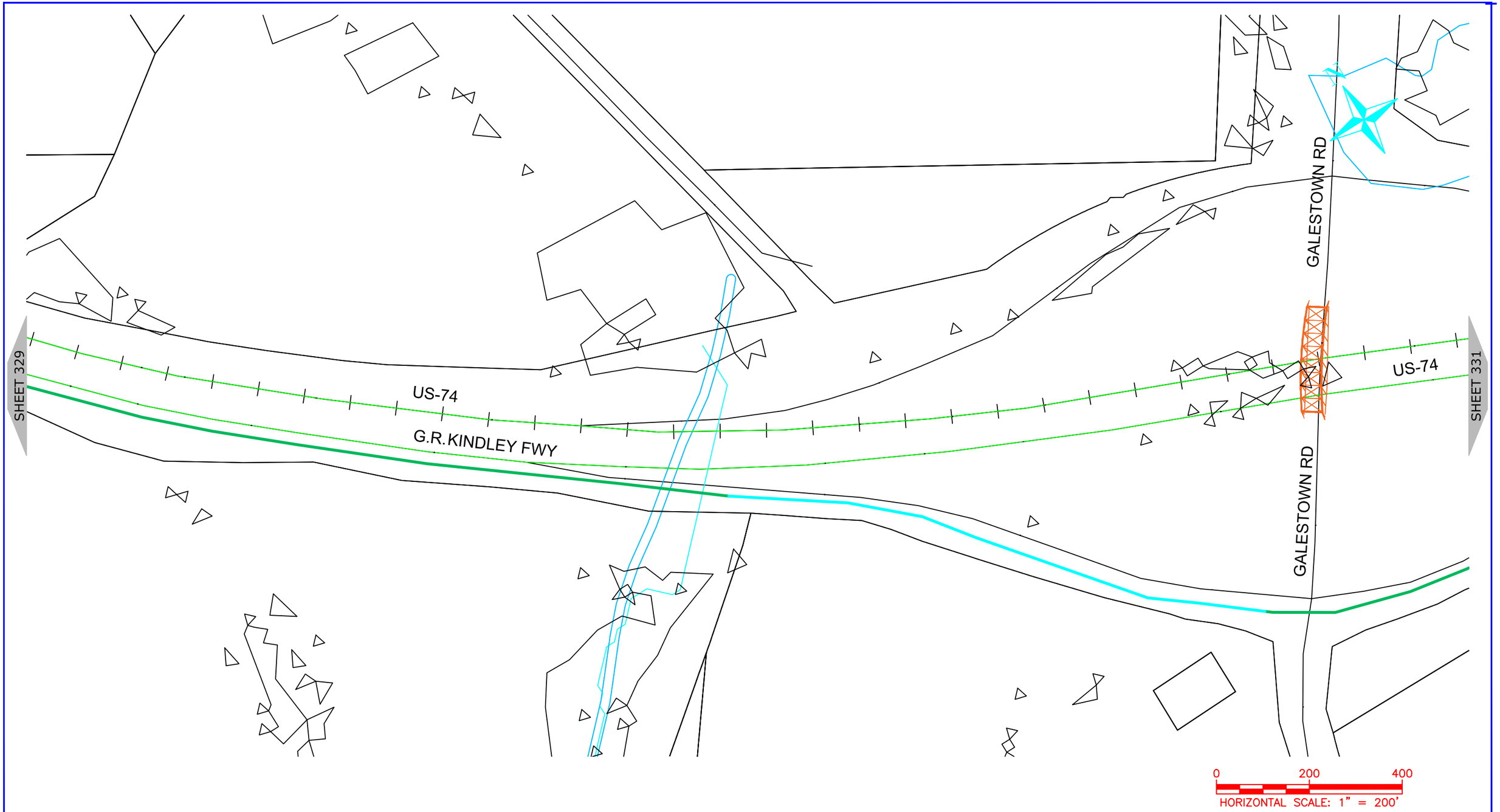
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PROJECT NAME: US-74

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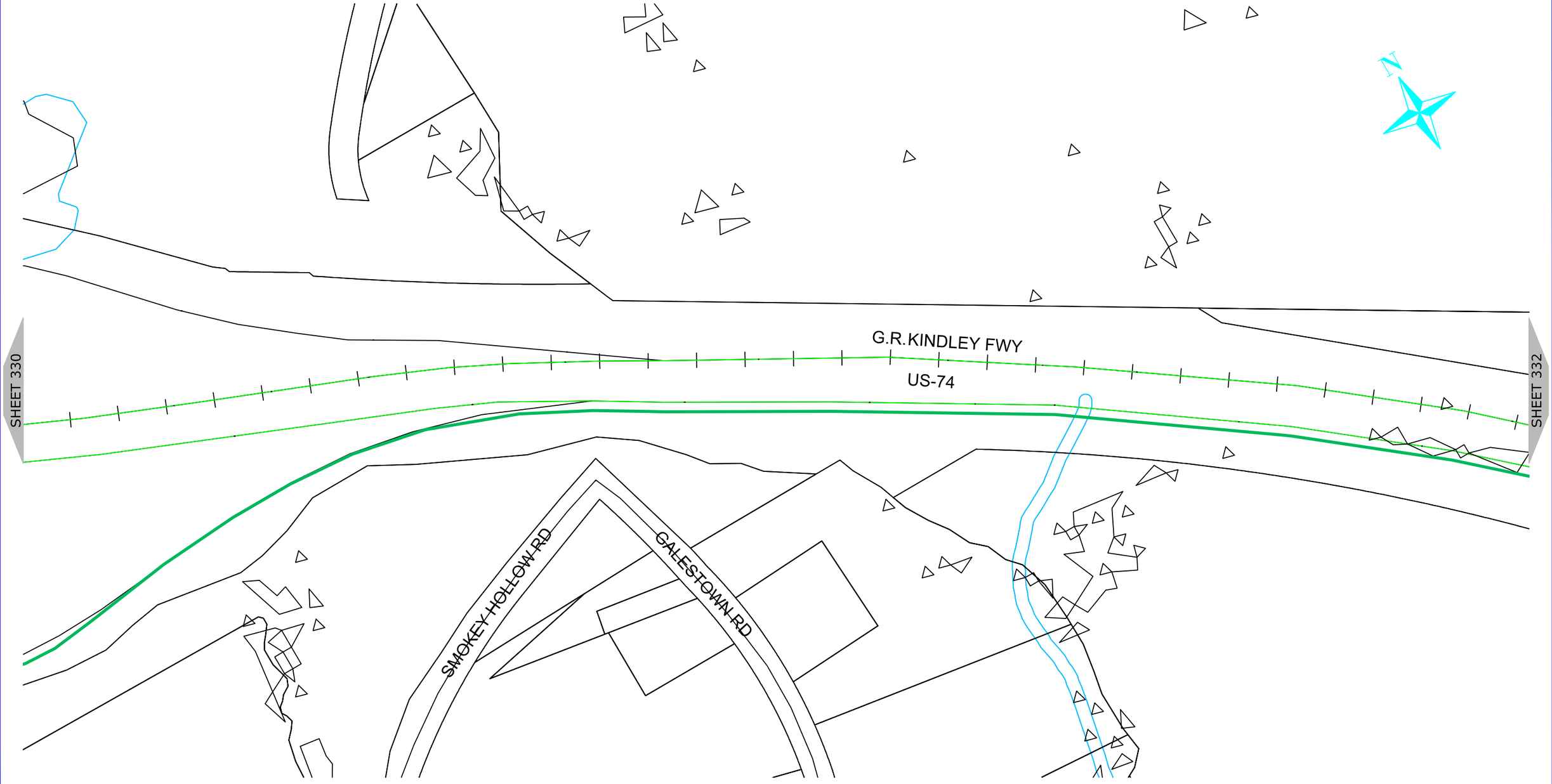
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PROJECT NAME:
US-74

SHEET NAME:
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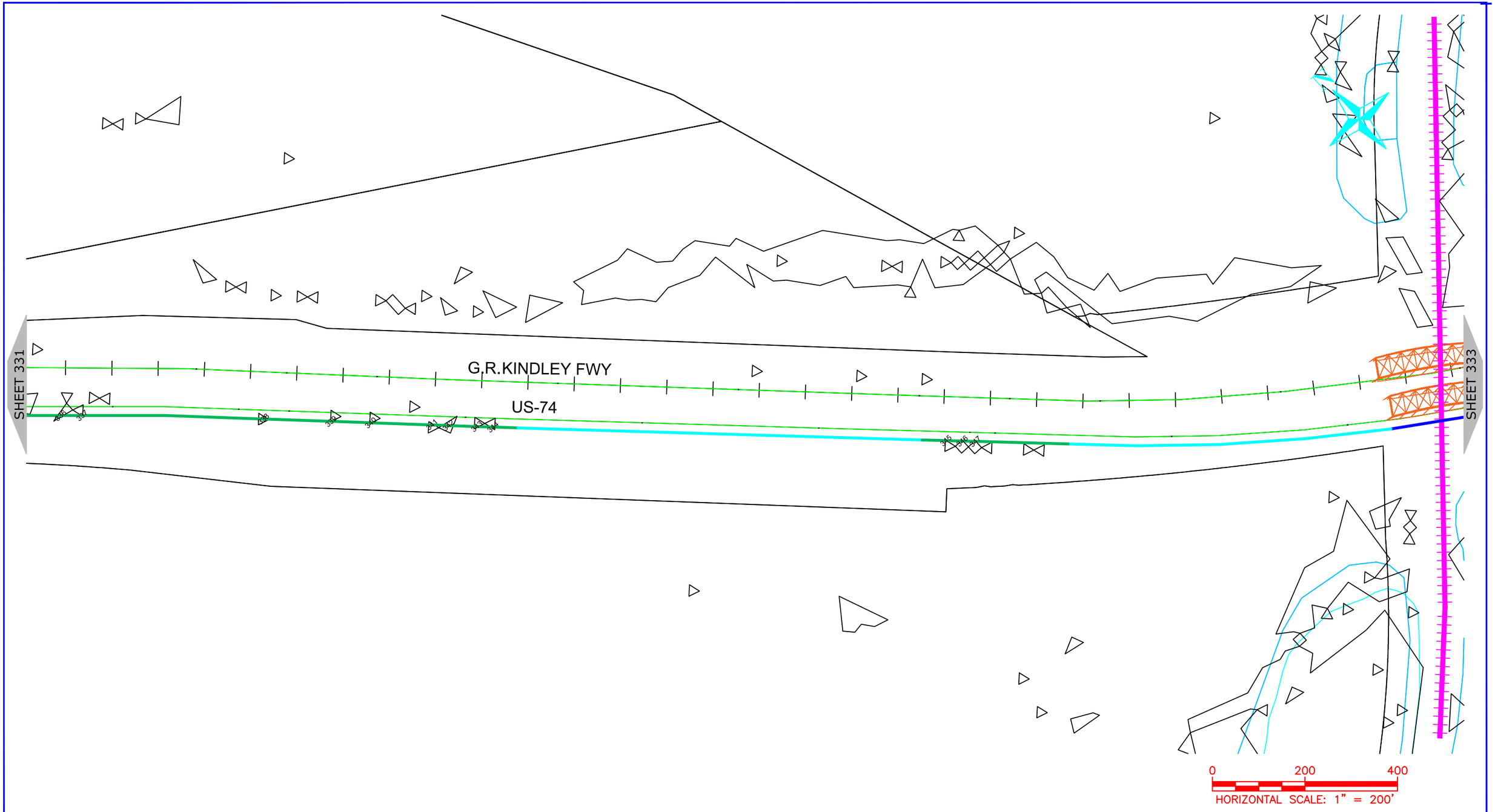
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PROJECT NAME: US-74

SHEET NAME: 331

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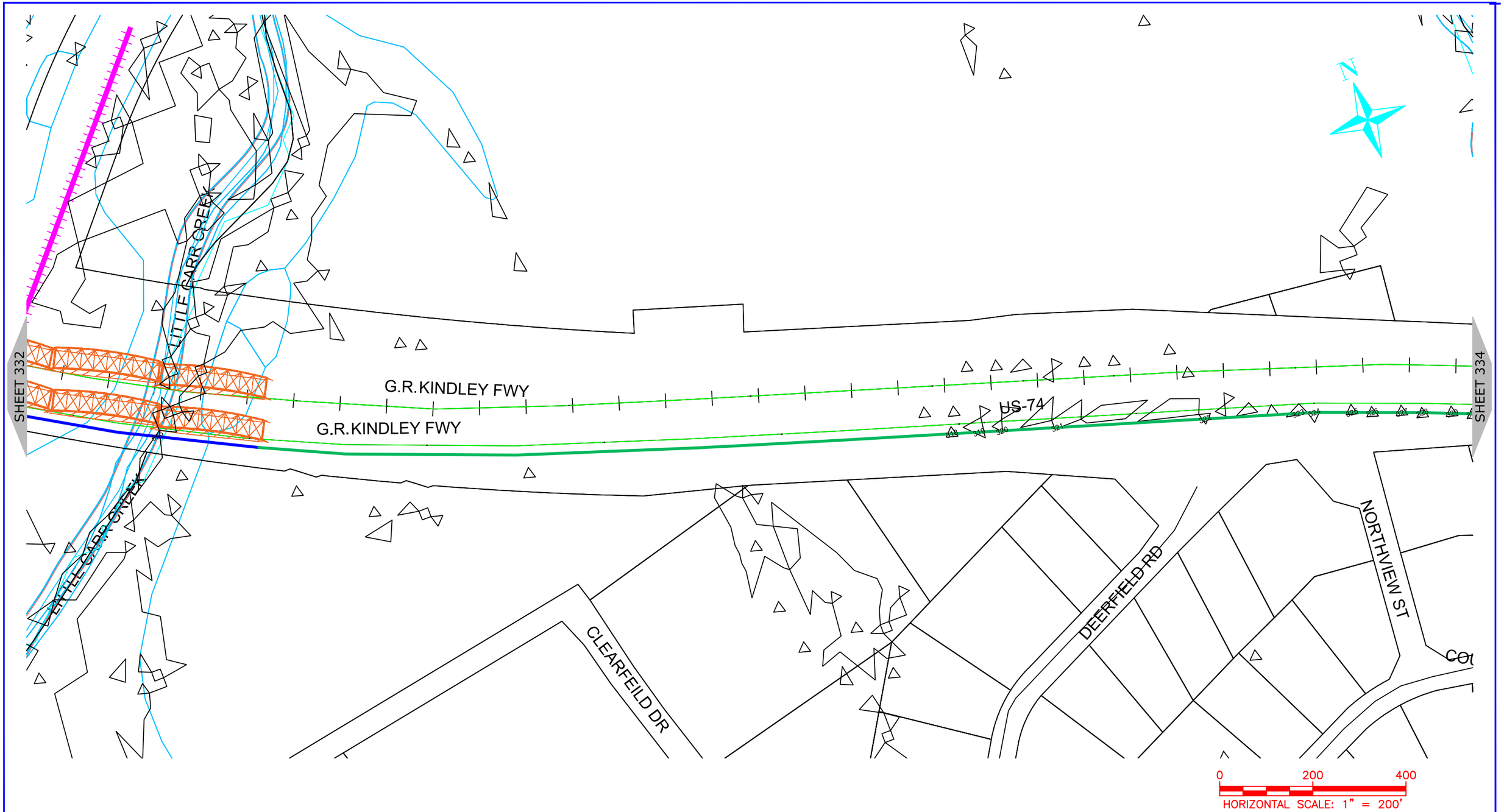
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PROJECT NAME:
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SHEET NAME:
332

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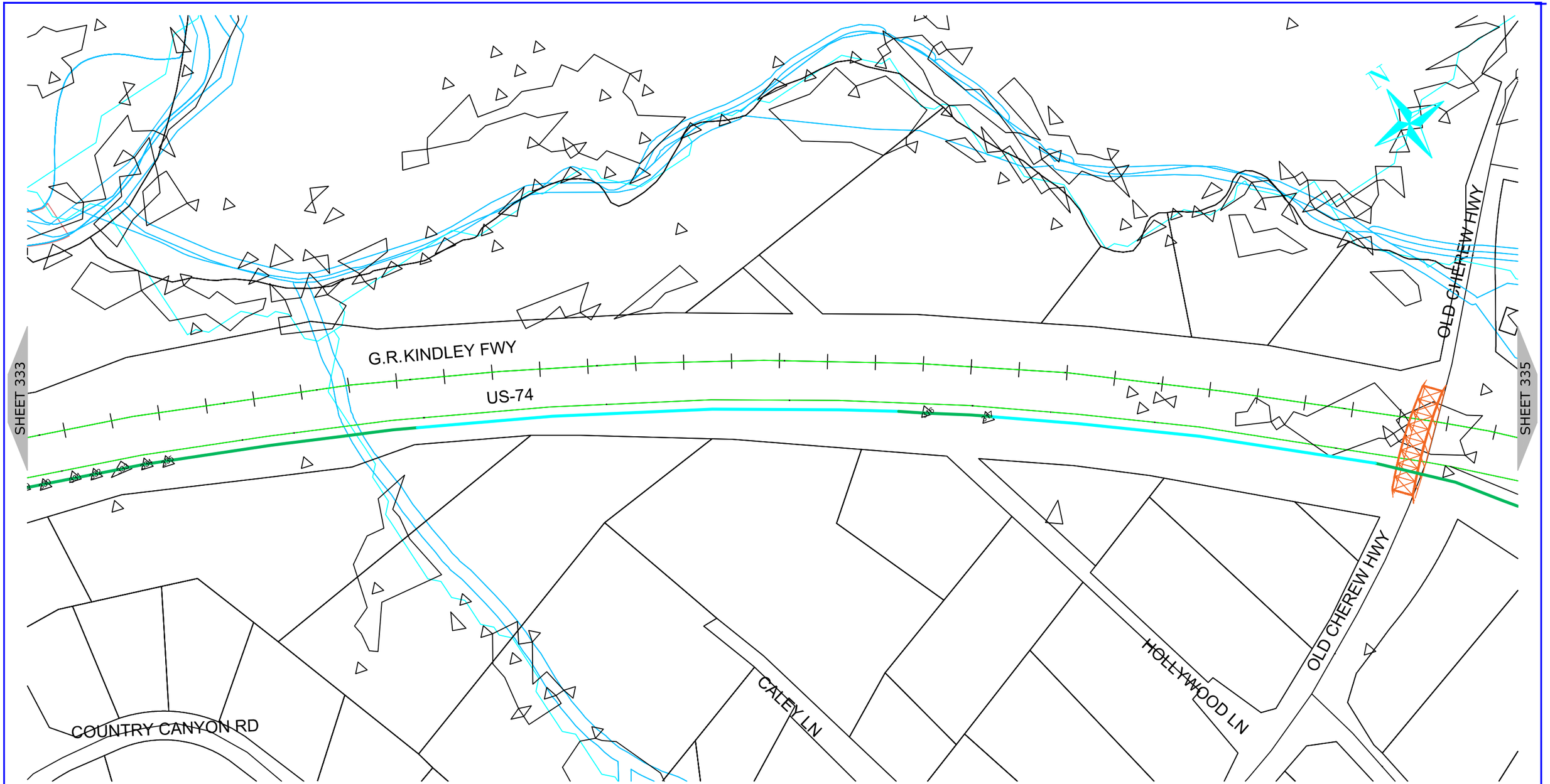
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PROJECT NAME: US-74

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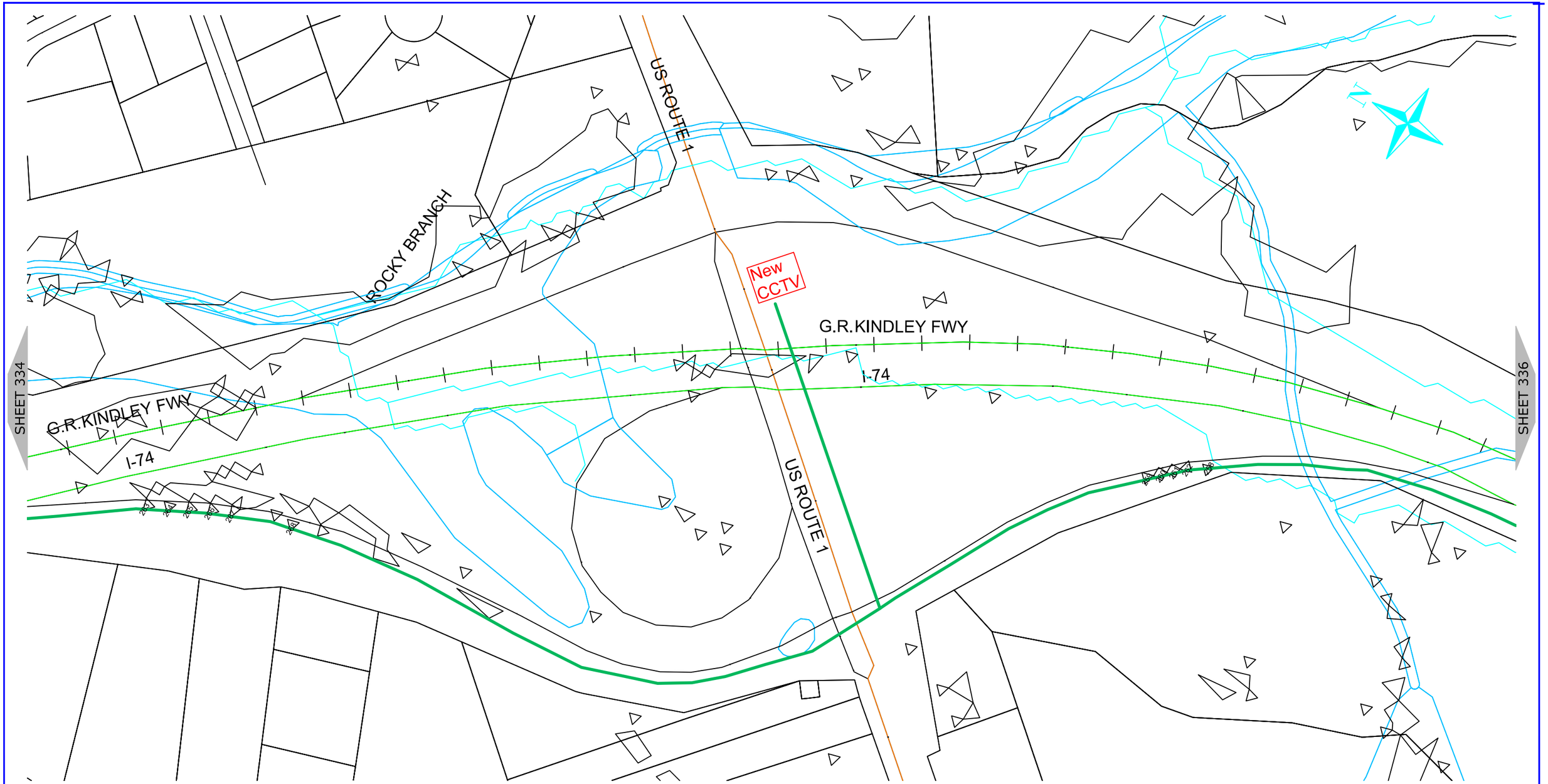
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PROJECT NAME: US-74

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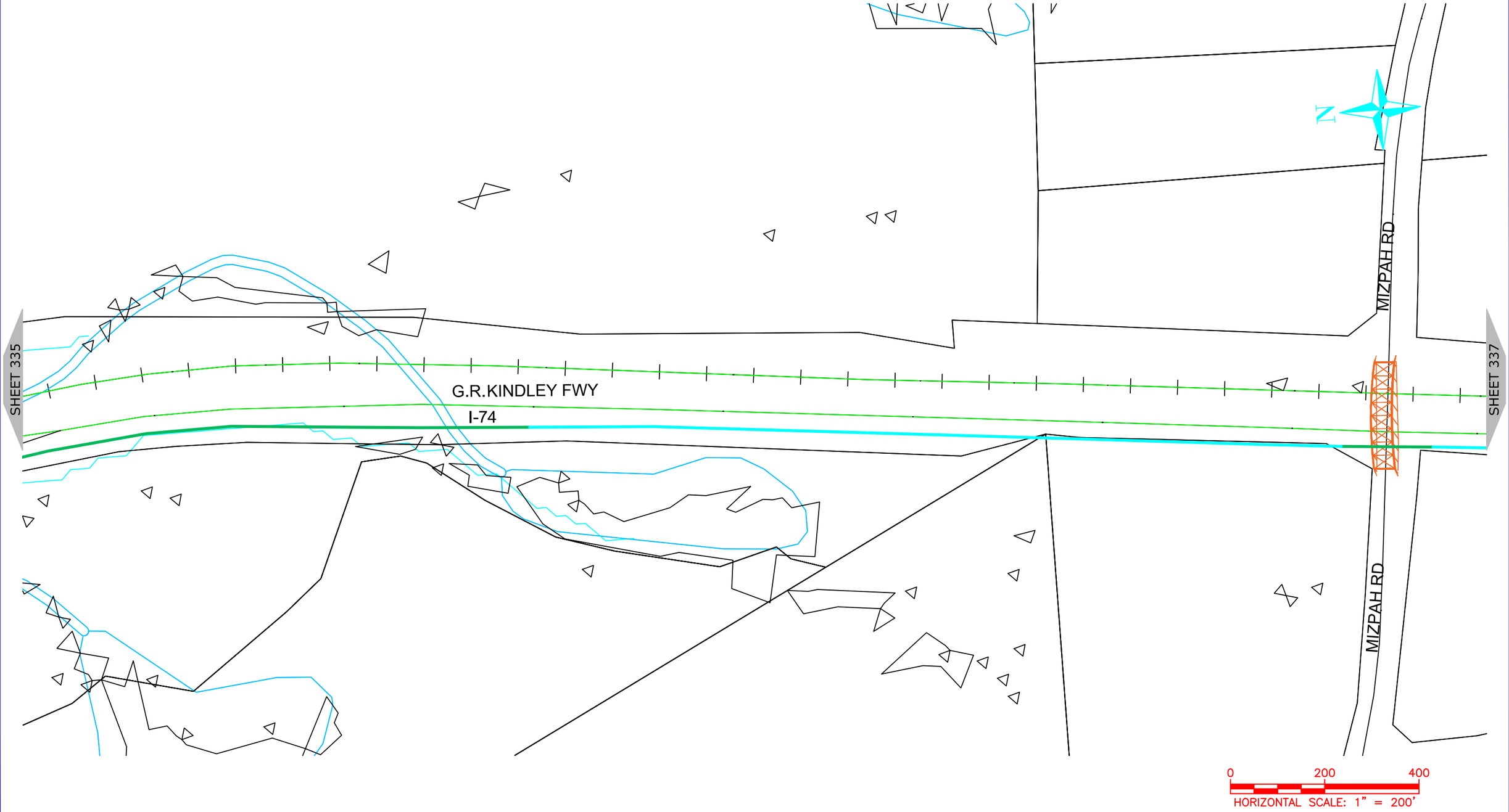
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PROJECT NAME:
US-74

SHEET NAME:
335

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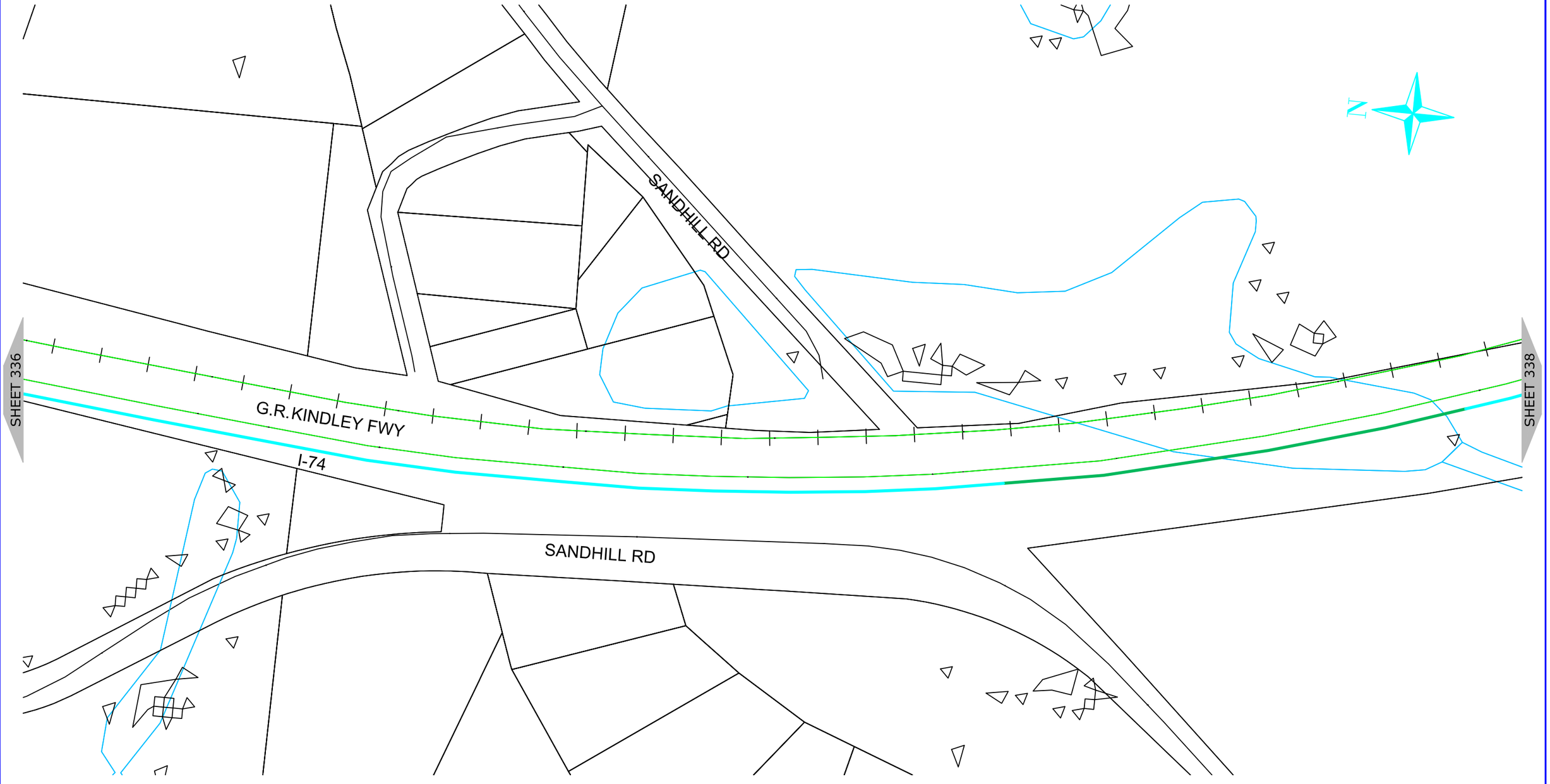
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PROJECT NAME: US-74

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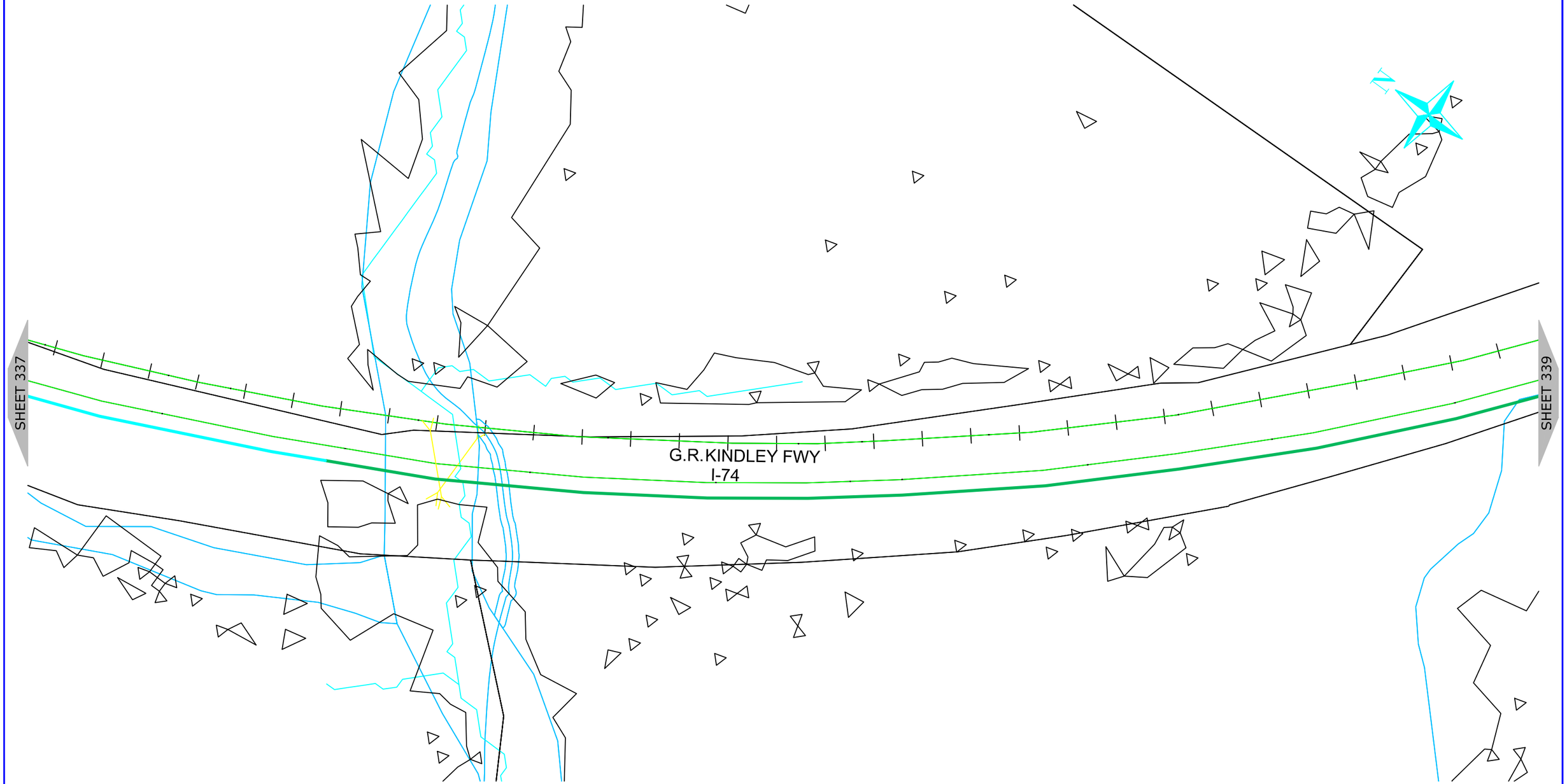
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PROJECT NAME:
US-74

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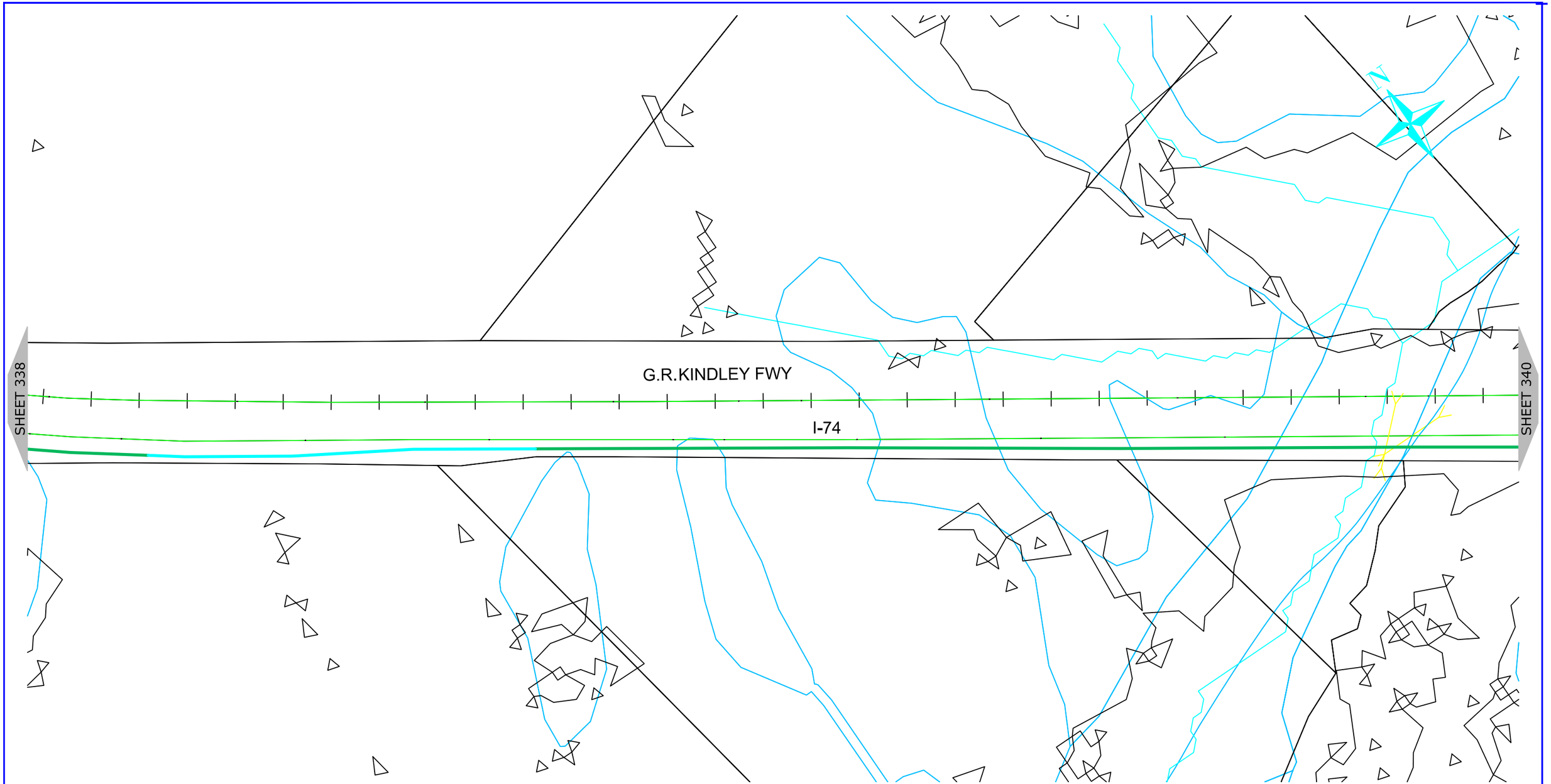
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PROJECT NAME: US-74

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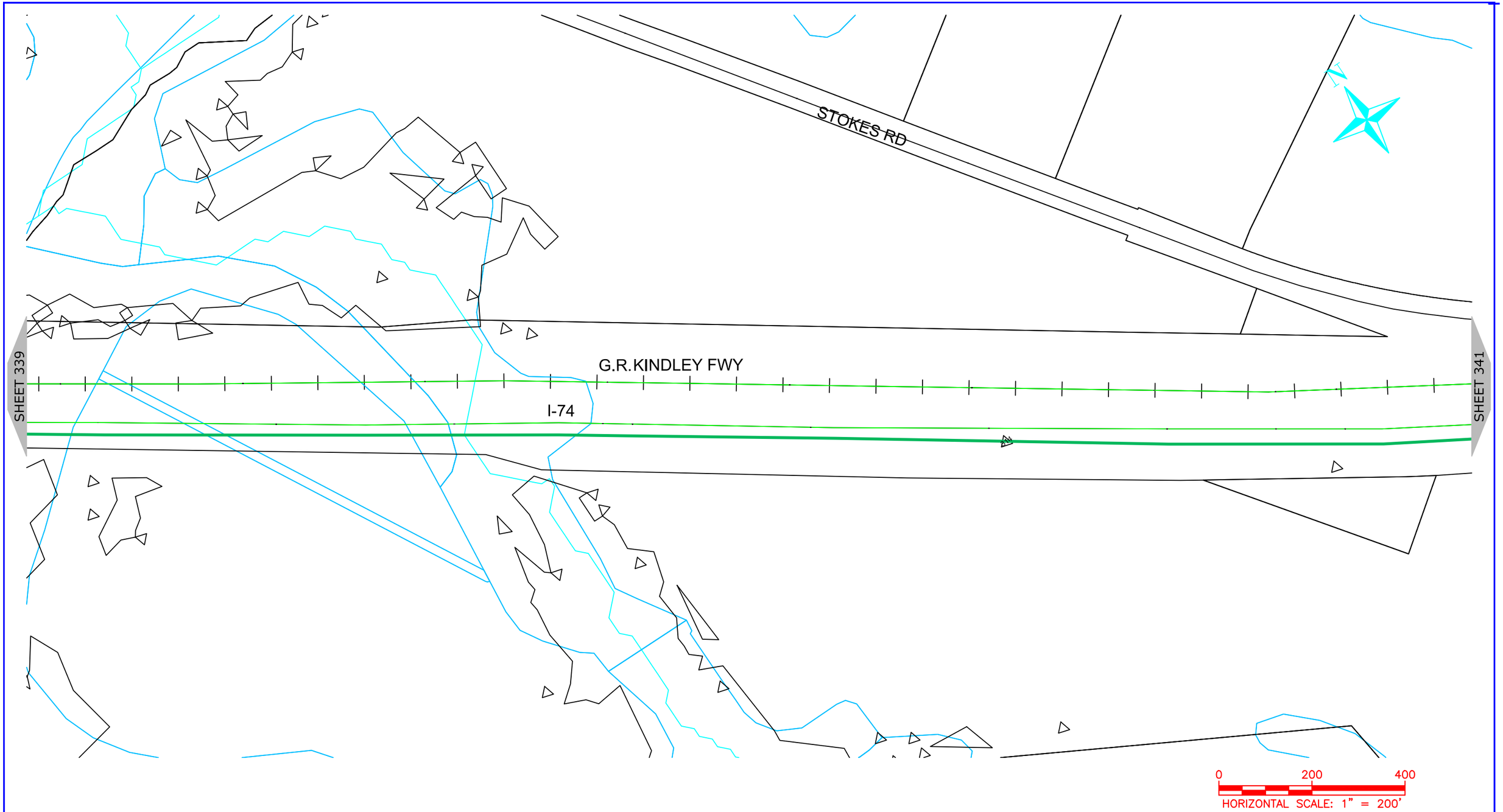
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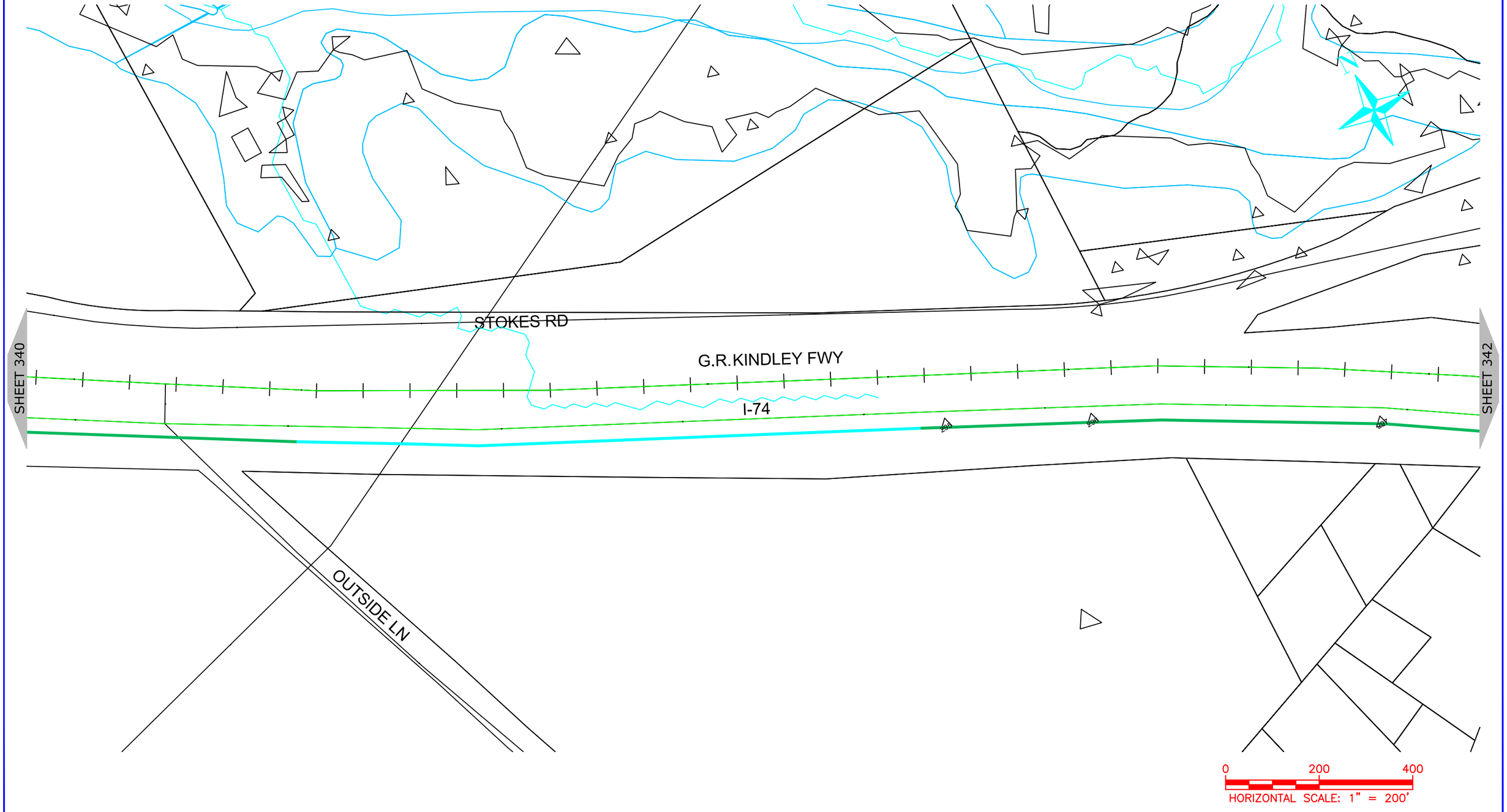
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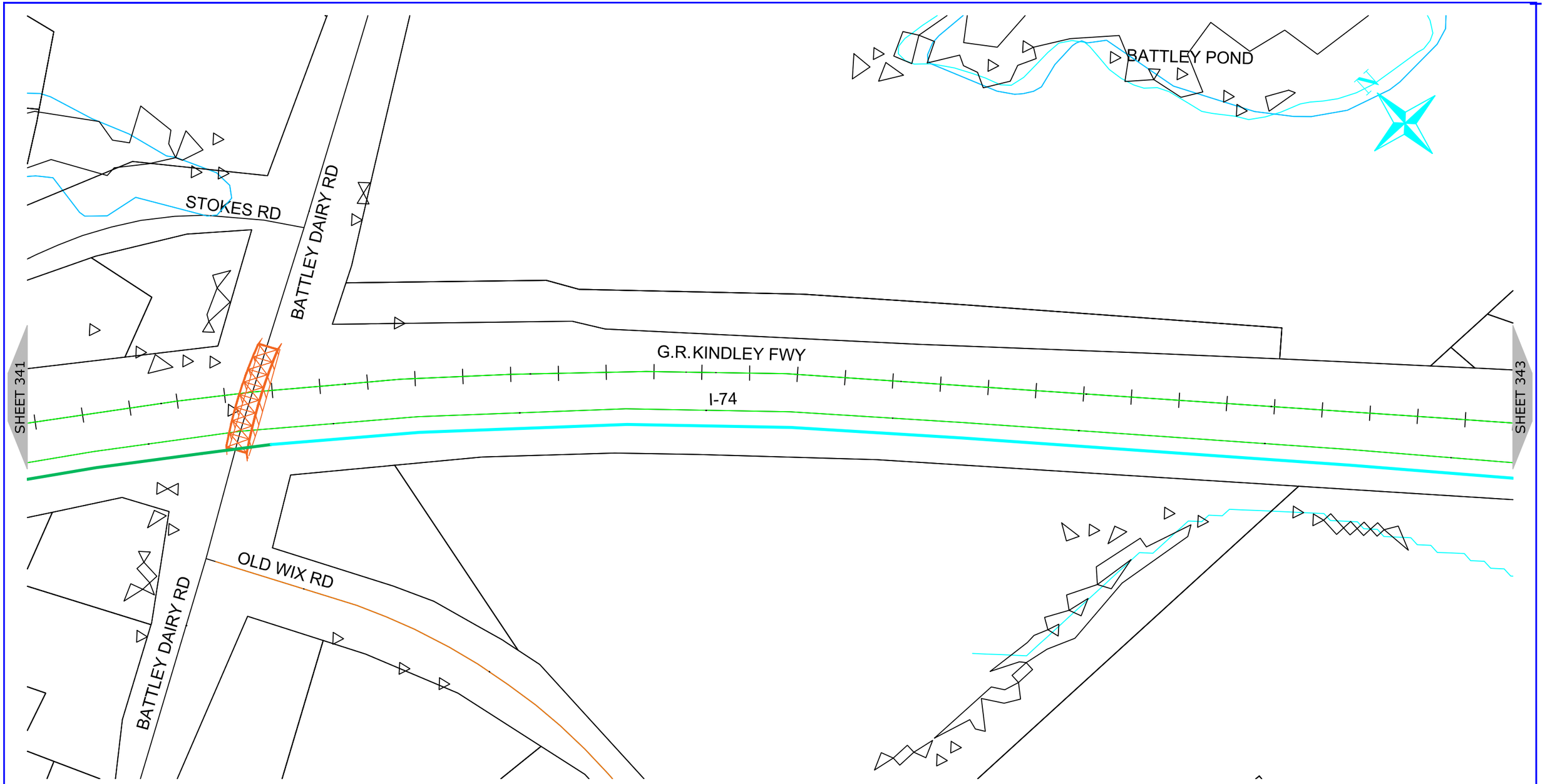
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 341

SHEET: 341

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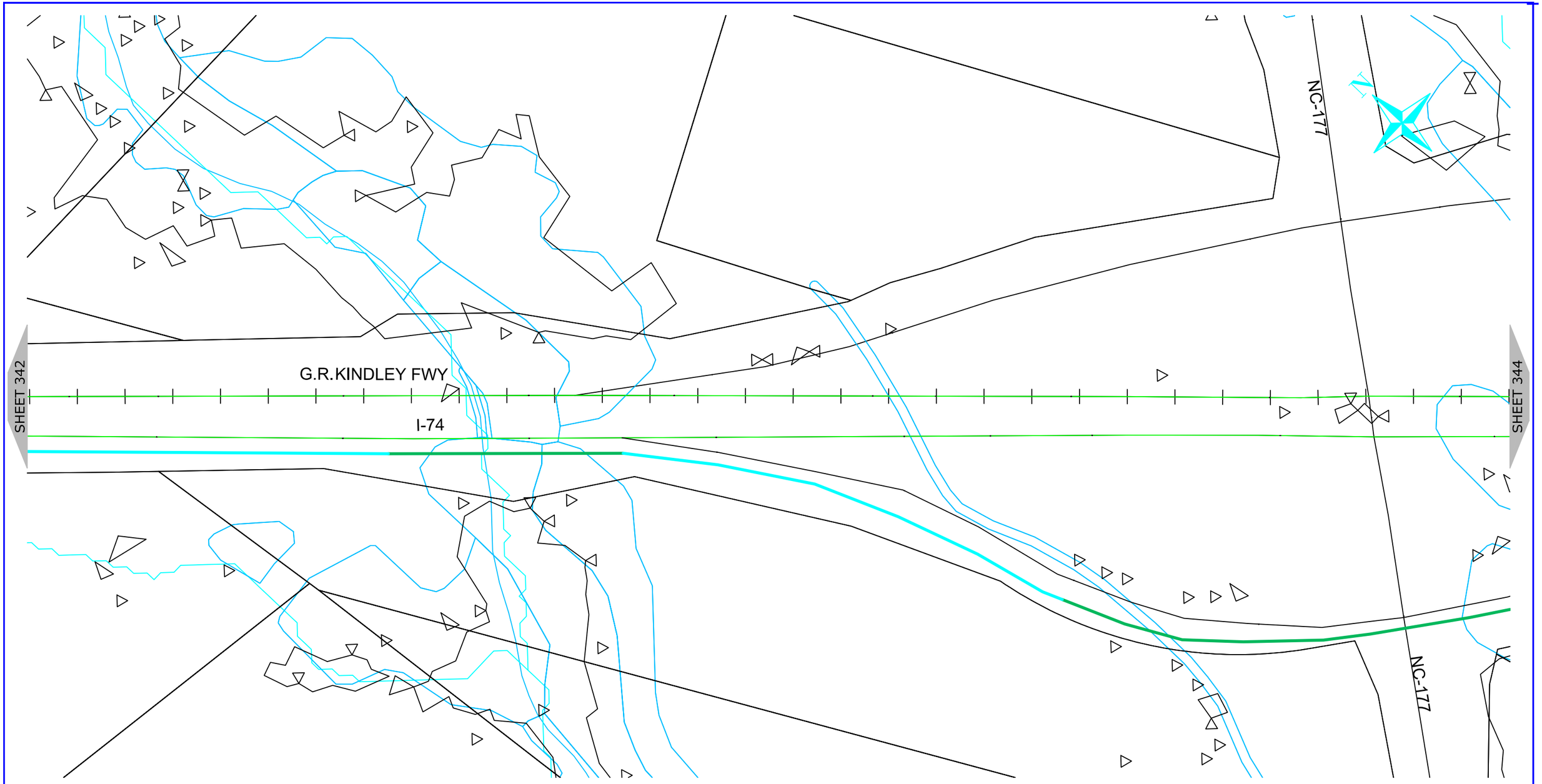
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 342

SHEET: 342

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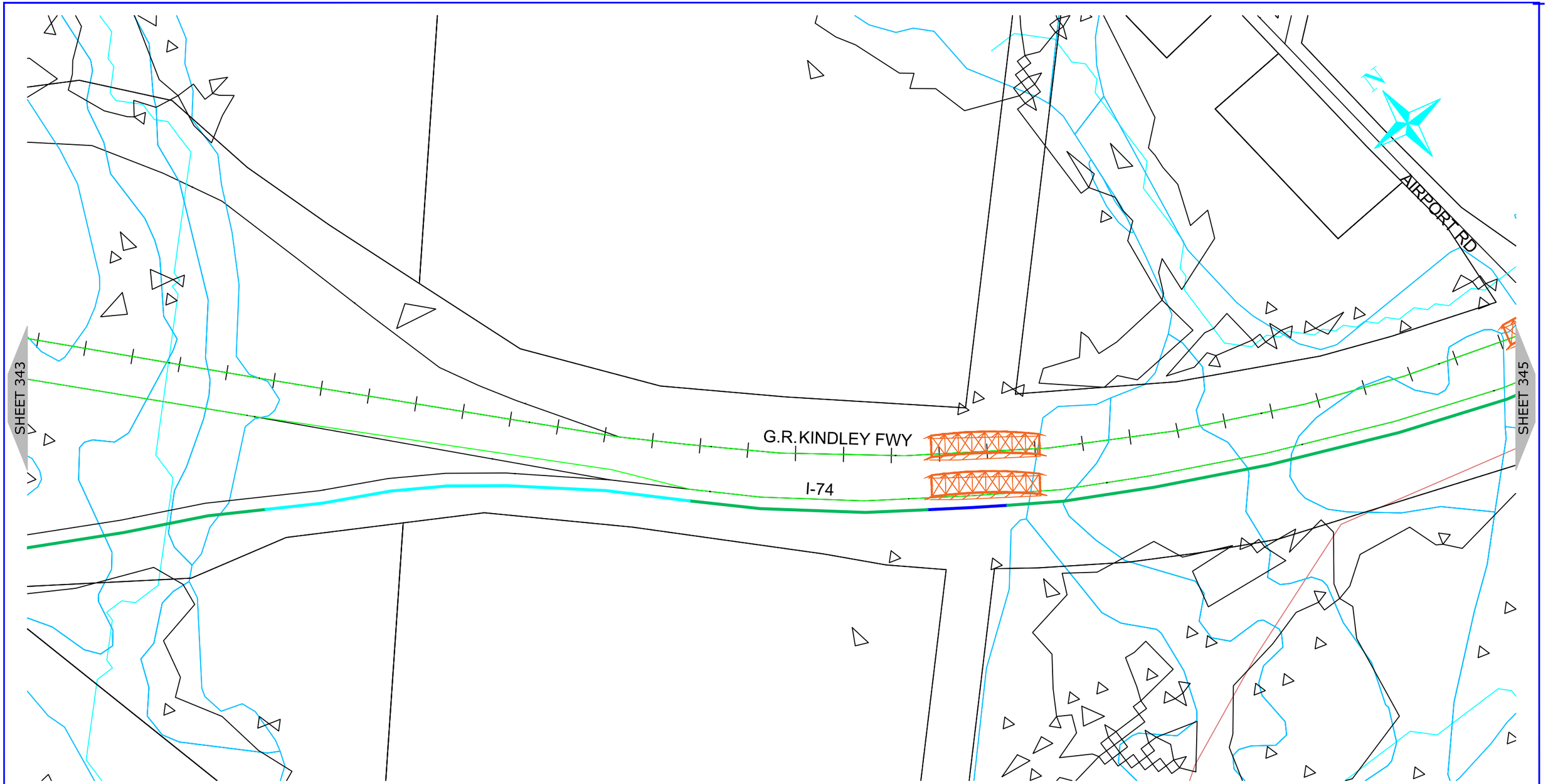
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME: US-74

SHEET NAME: 343

SHEET: 343

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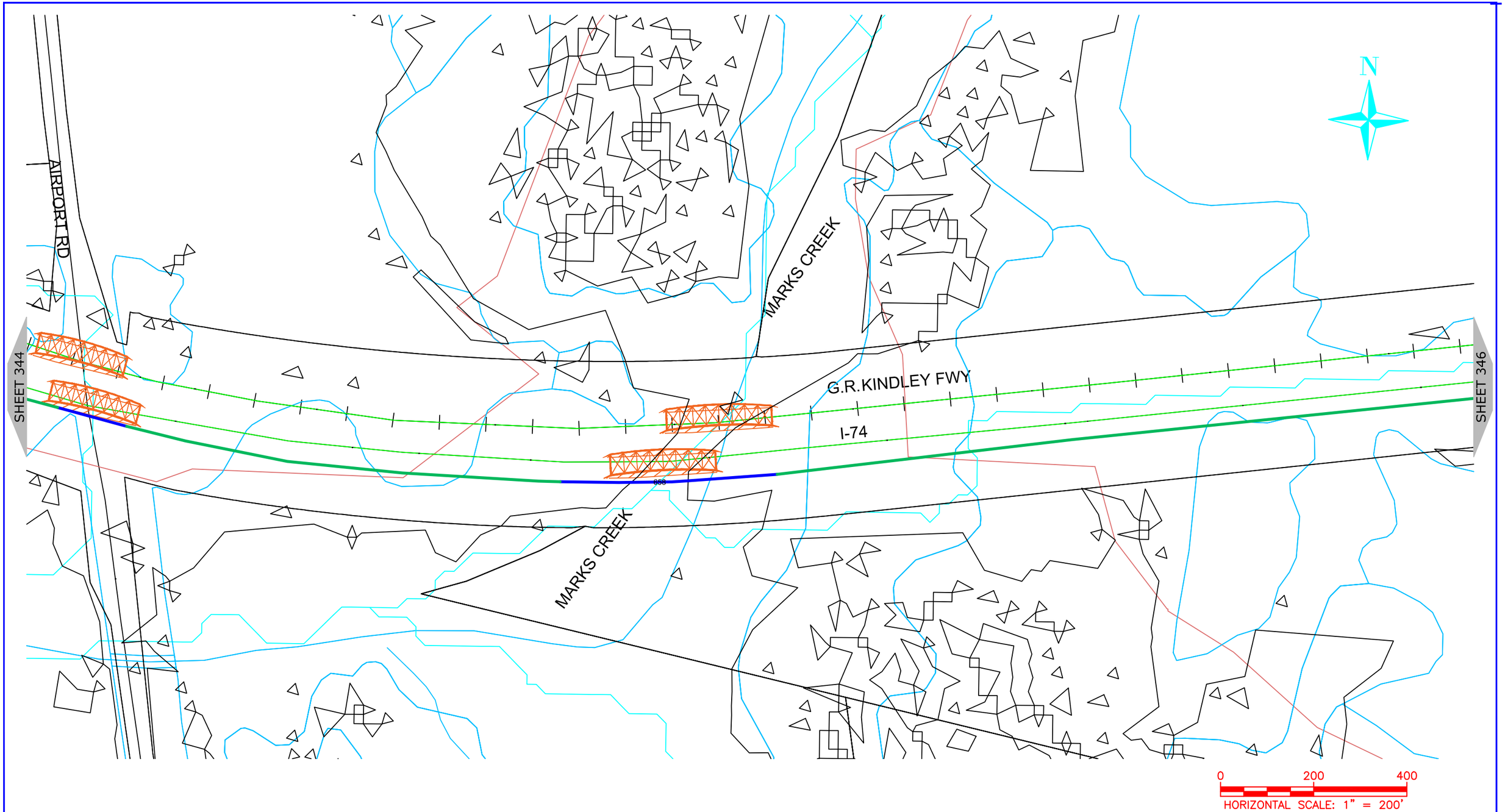
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 344

SHEET: 344

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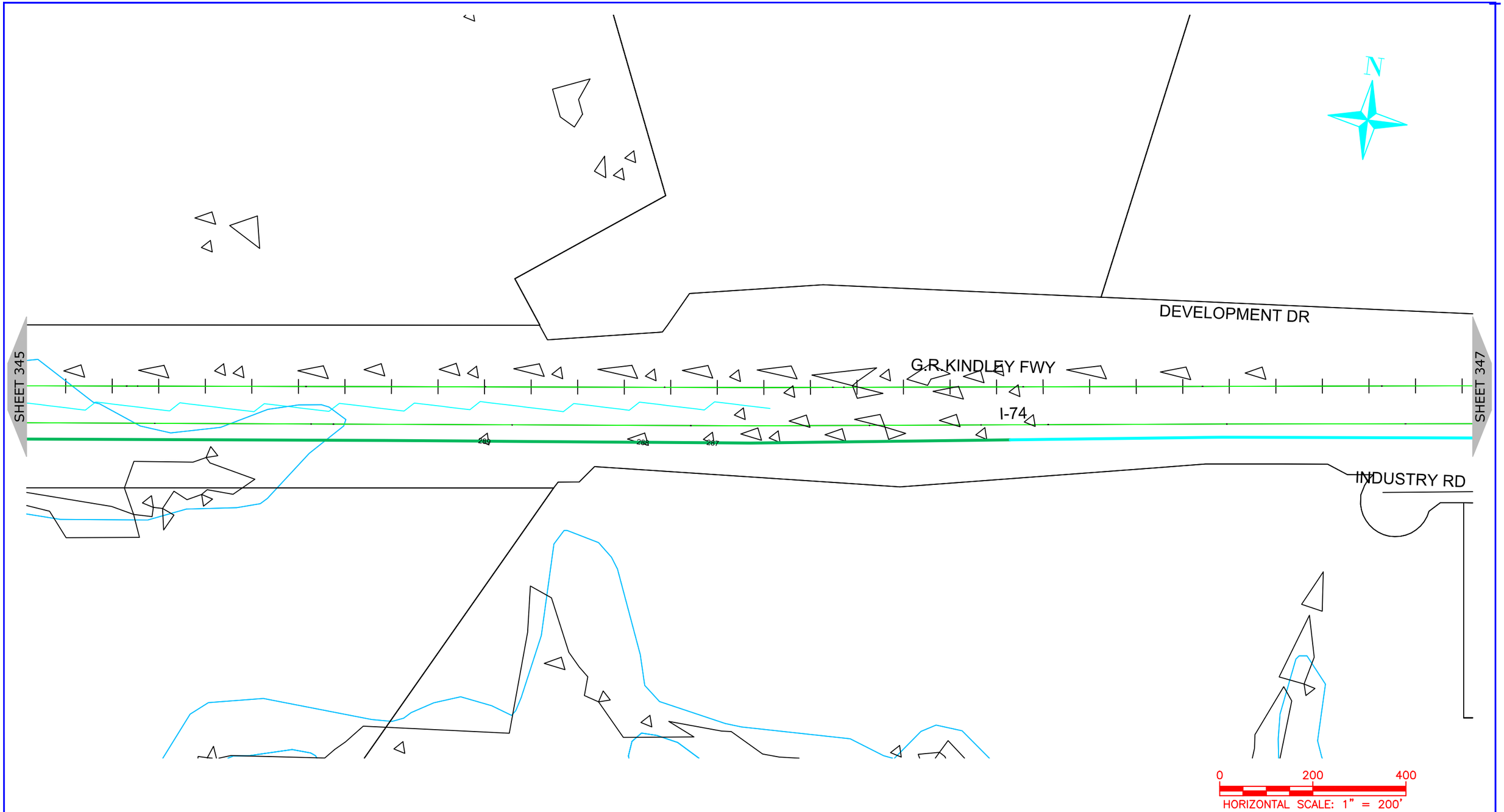
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PROJECT NAME: US-74

SHEET NAME: 345

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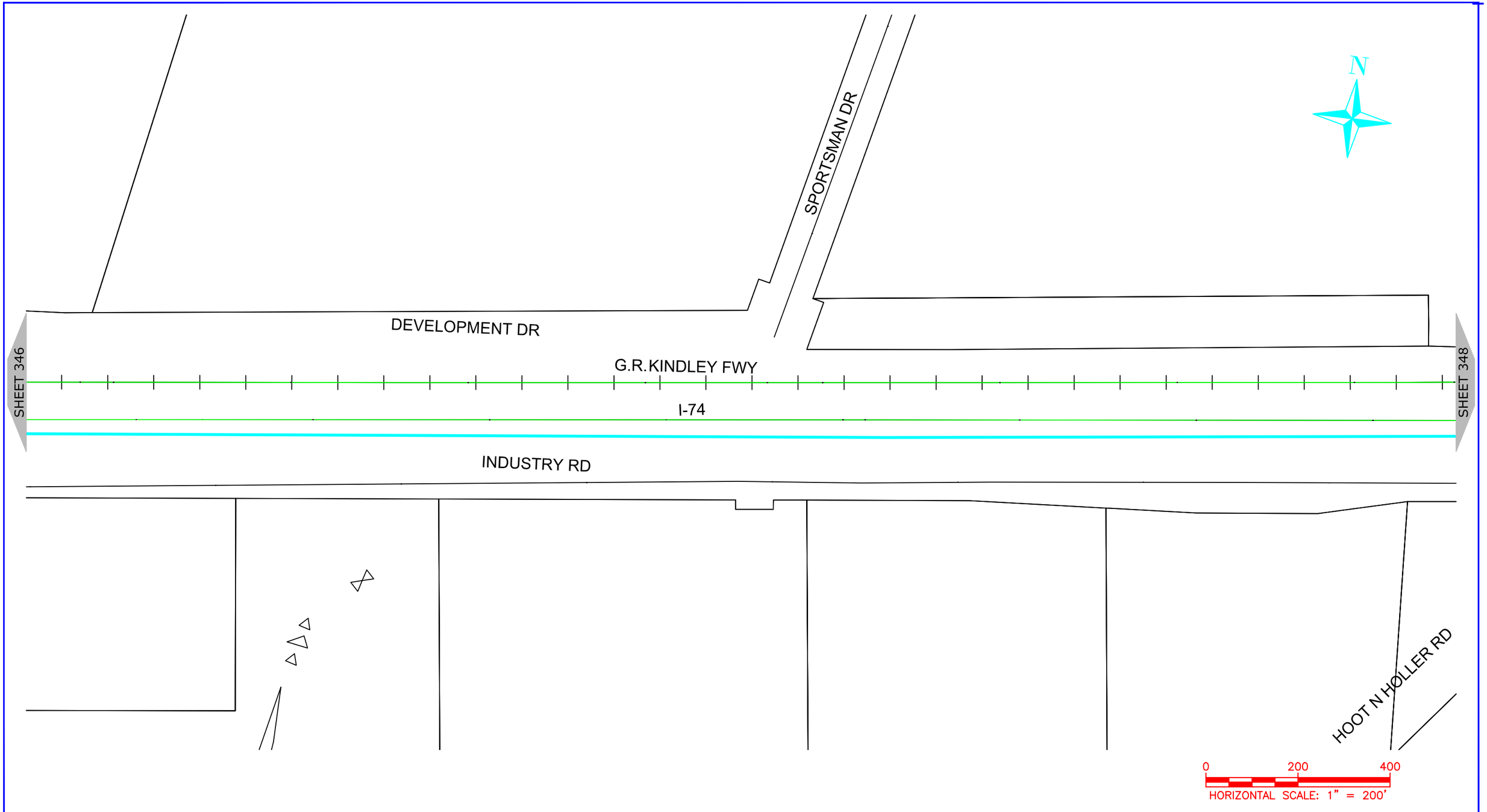
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
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SHEET NAME:
346

SHEET:
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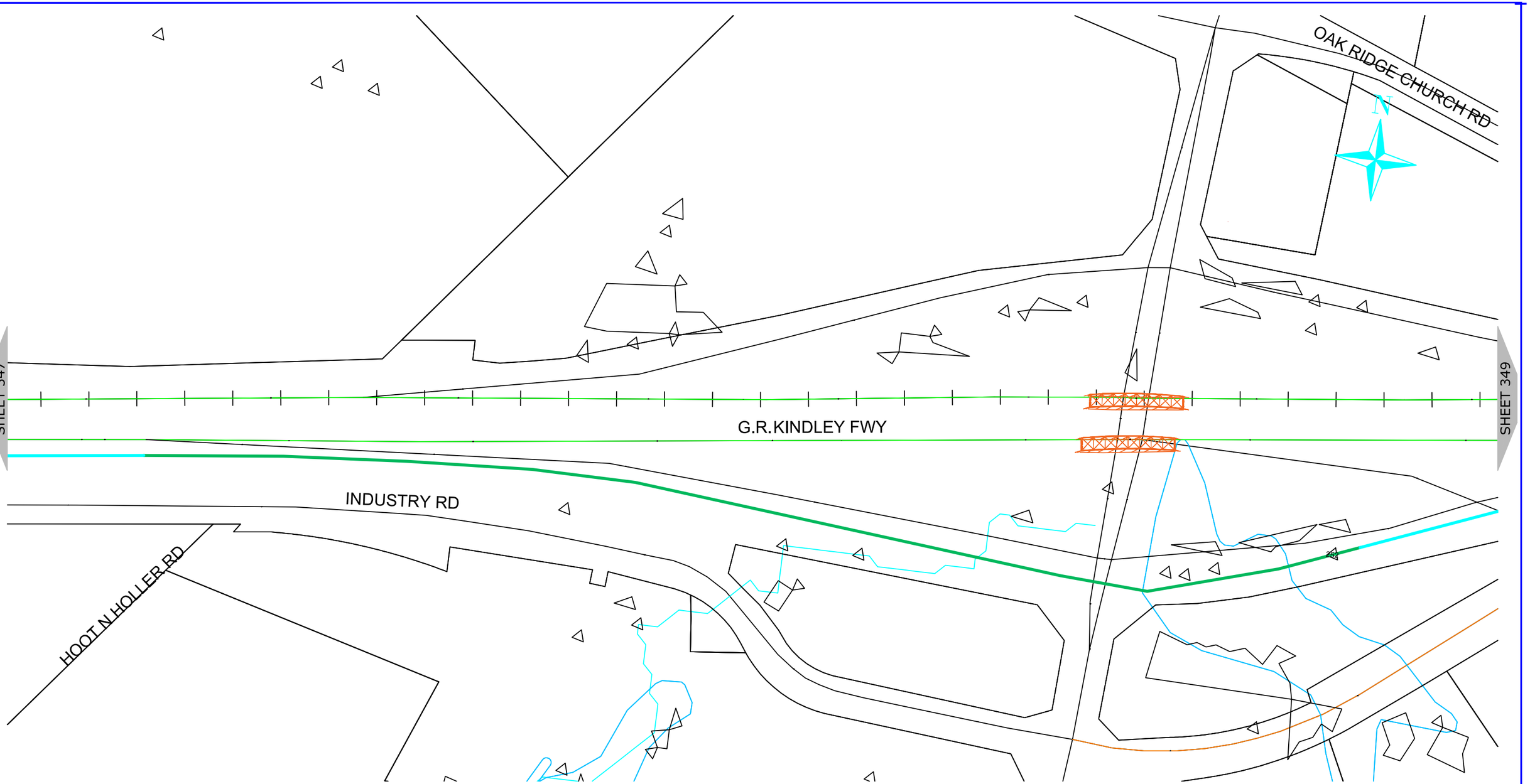
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 347

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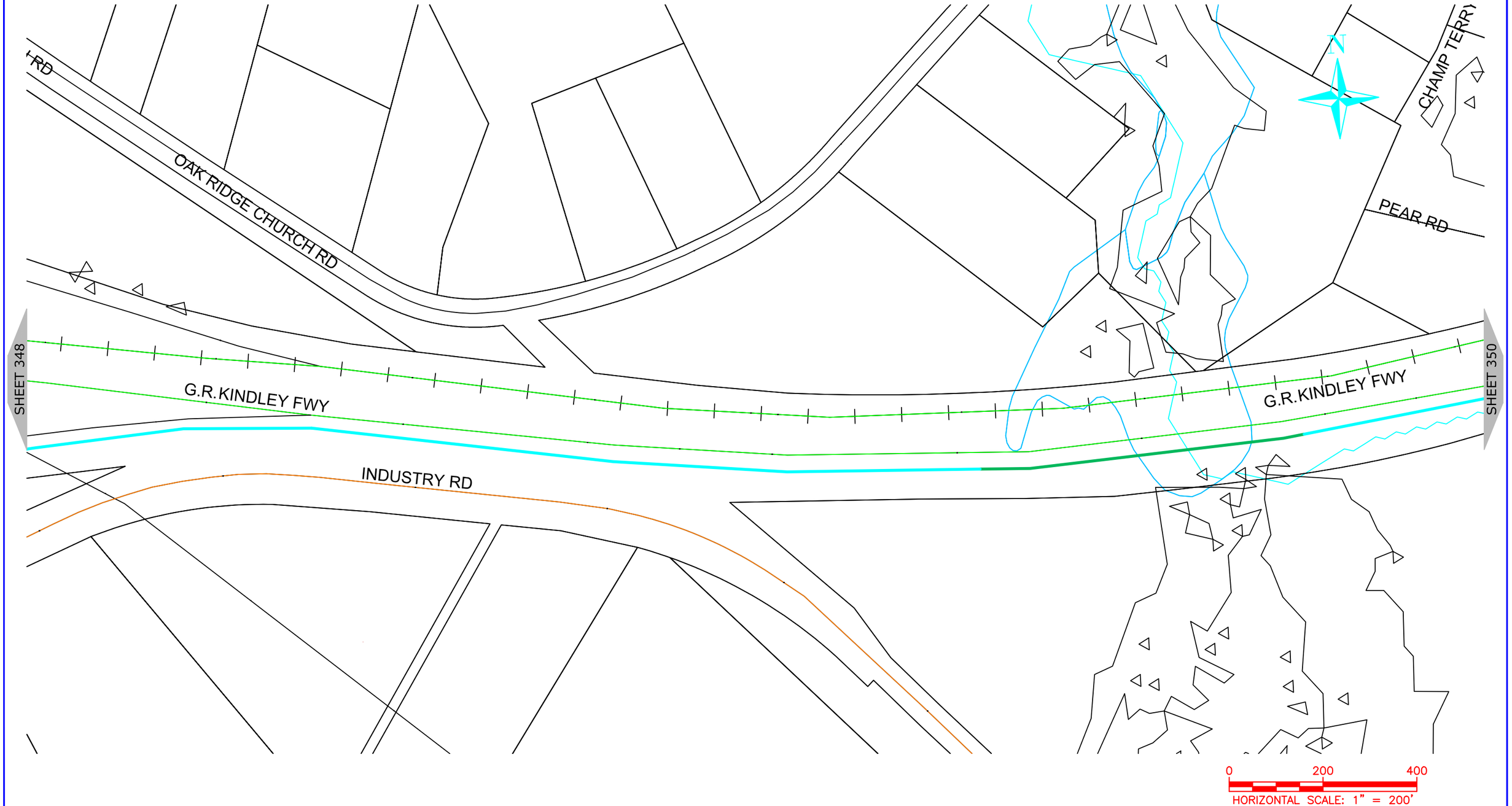
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 348

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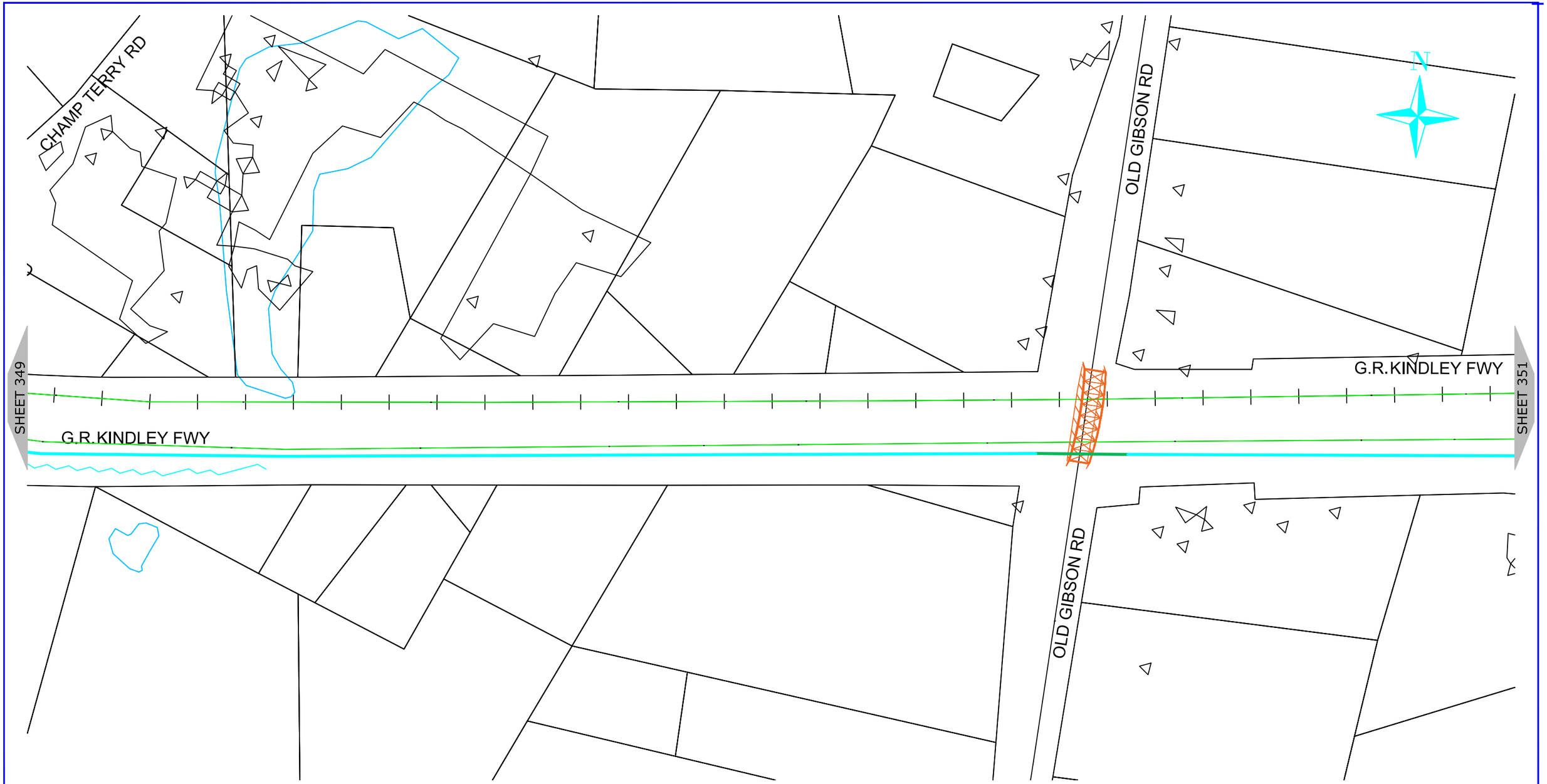
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
349

SHEET:
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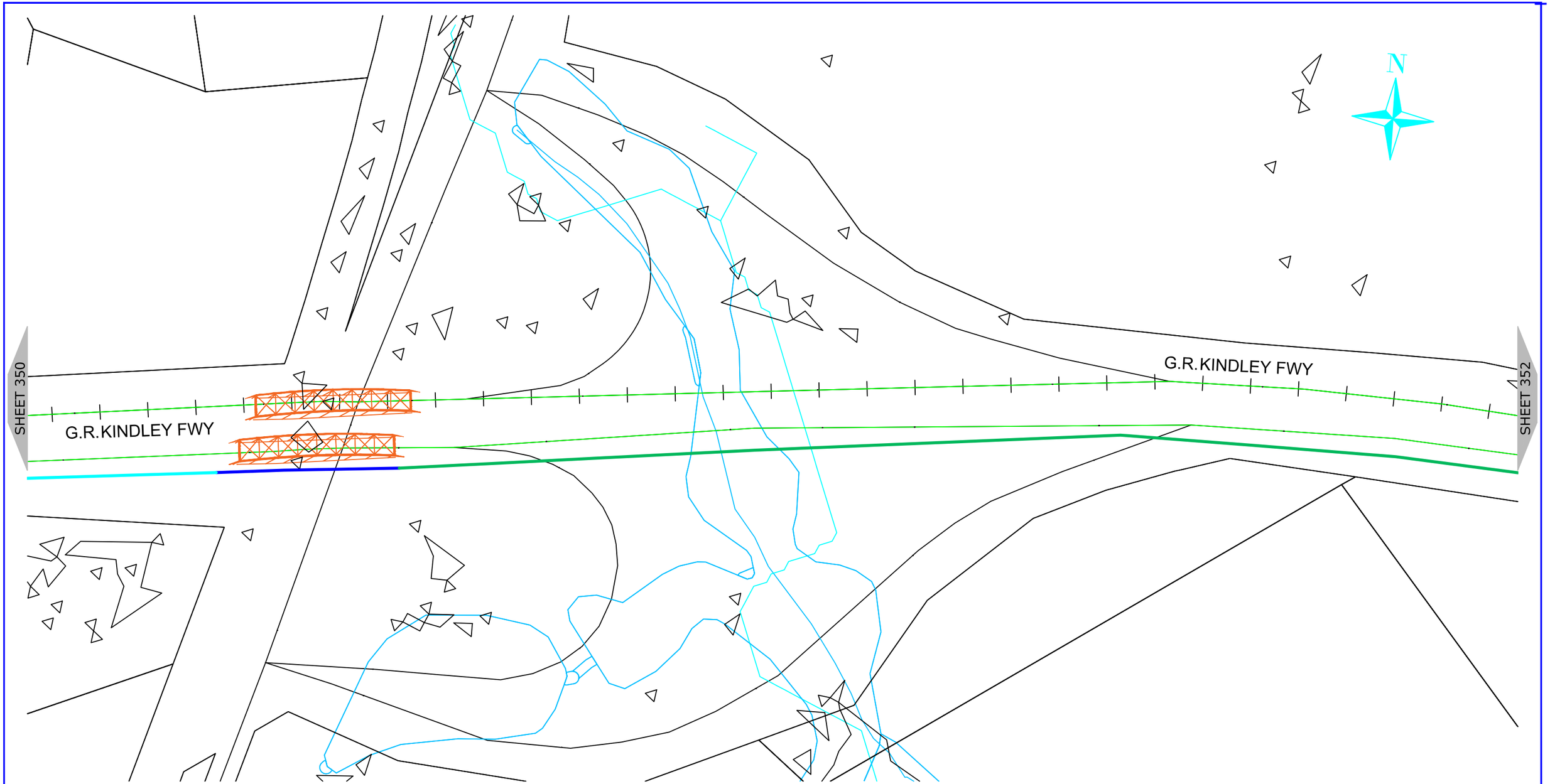
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 350

SHEET: 350

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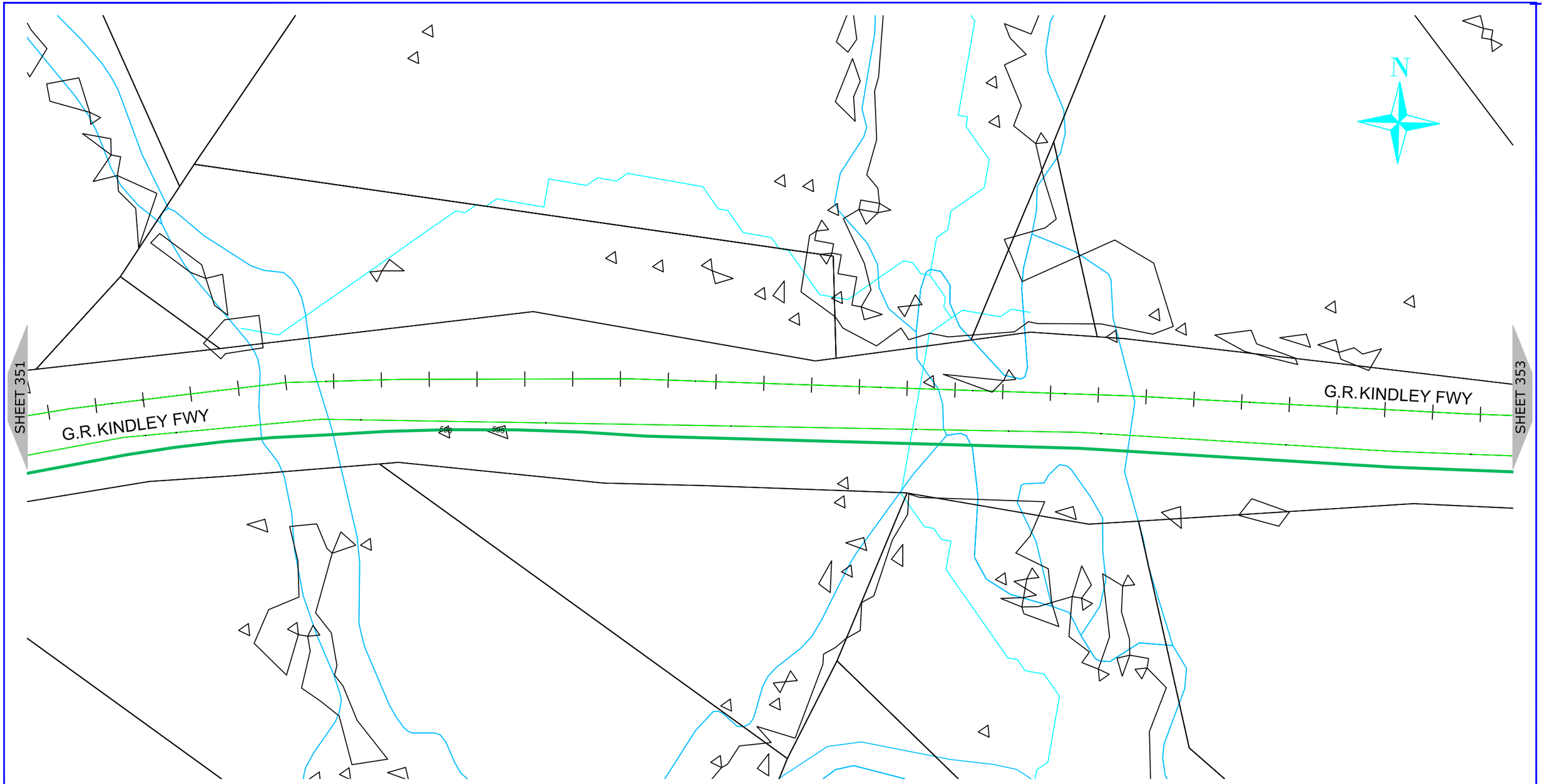
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 351

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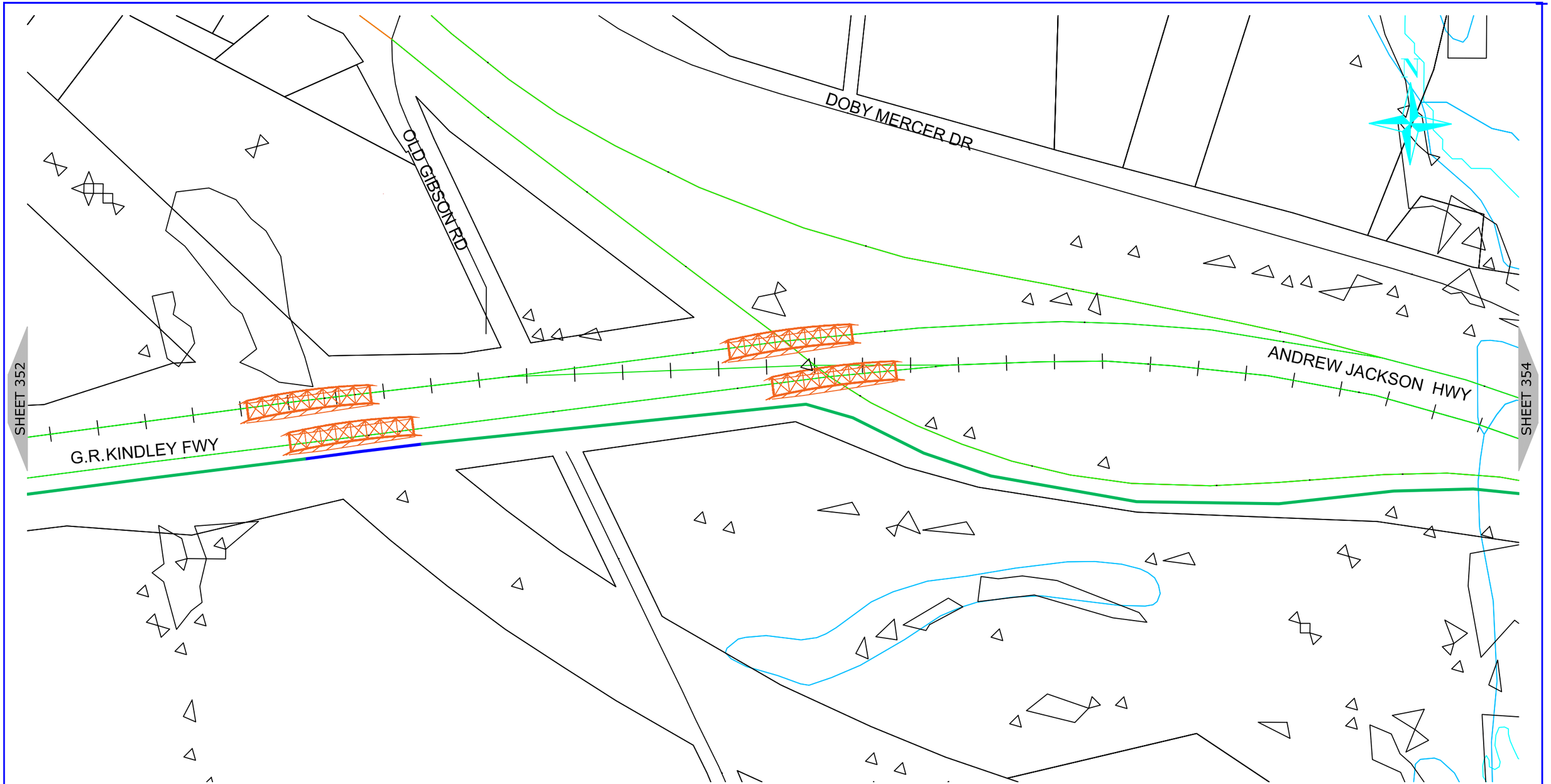
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PROJECT NAME: US-74

SHEET NAME: 352

SHEET: 352

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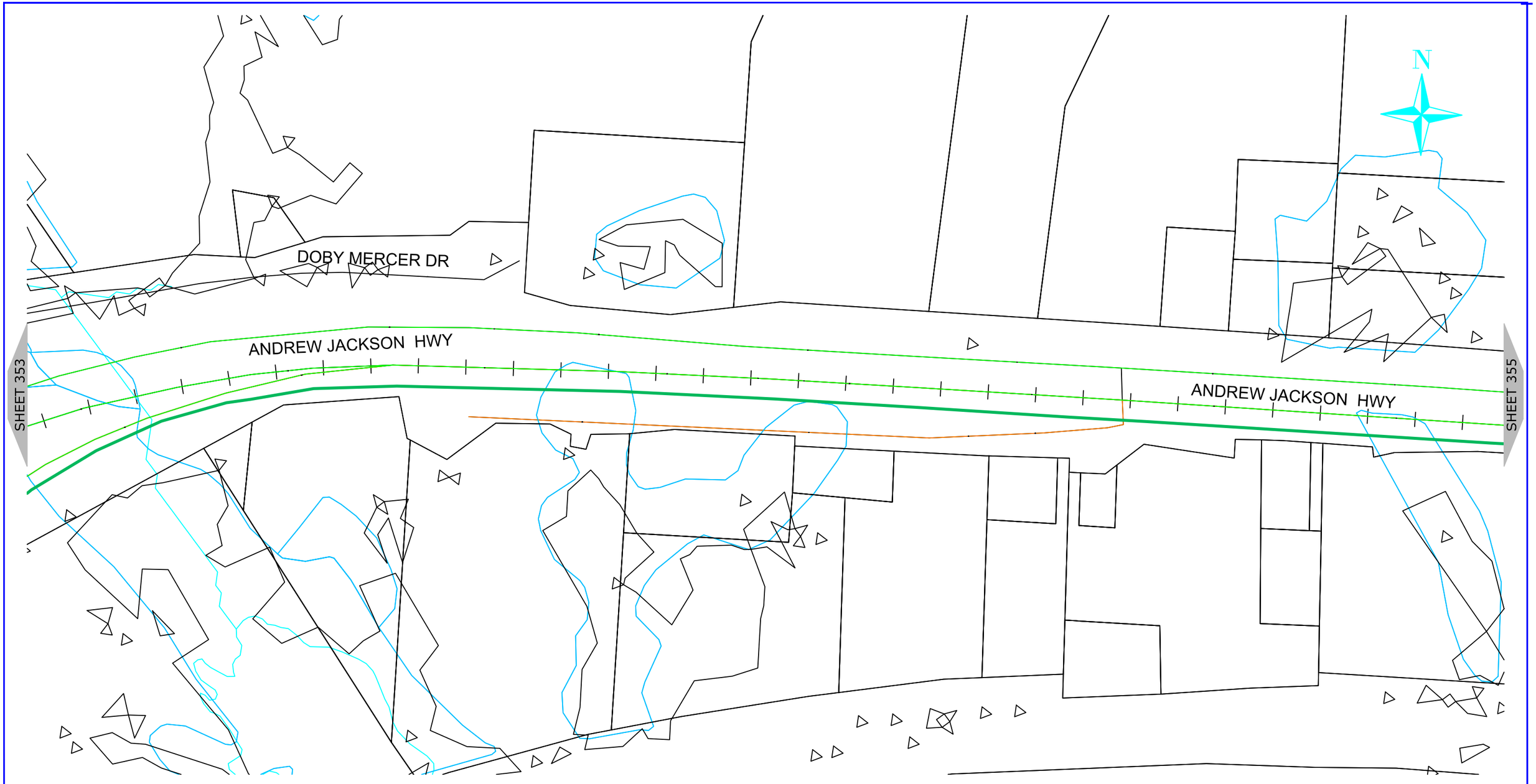
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 353

SHEET: 353

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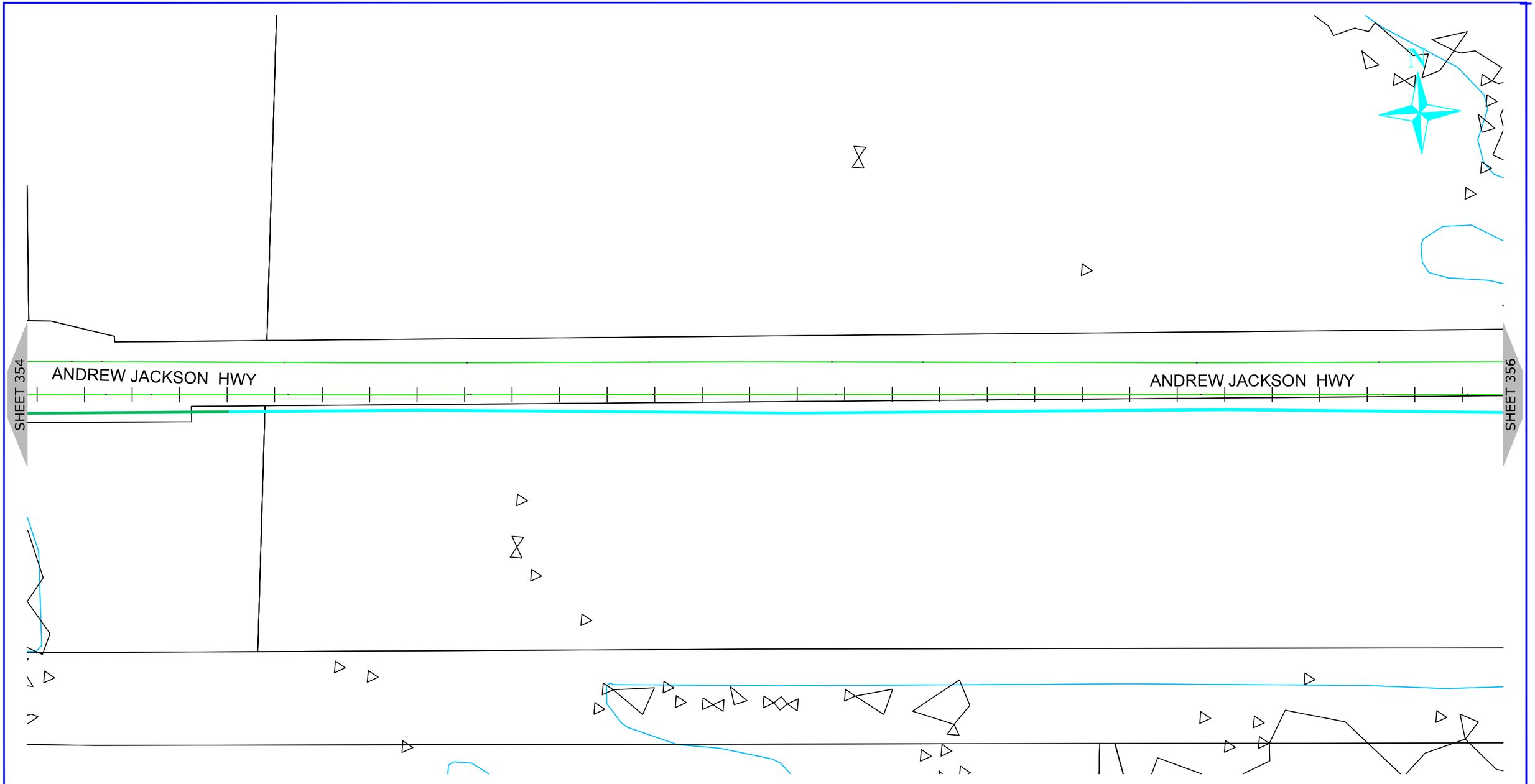
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DATE:	12-05-2021
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DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
354

SHEET:
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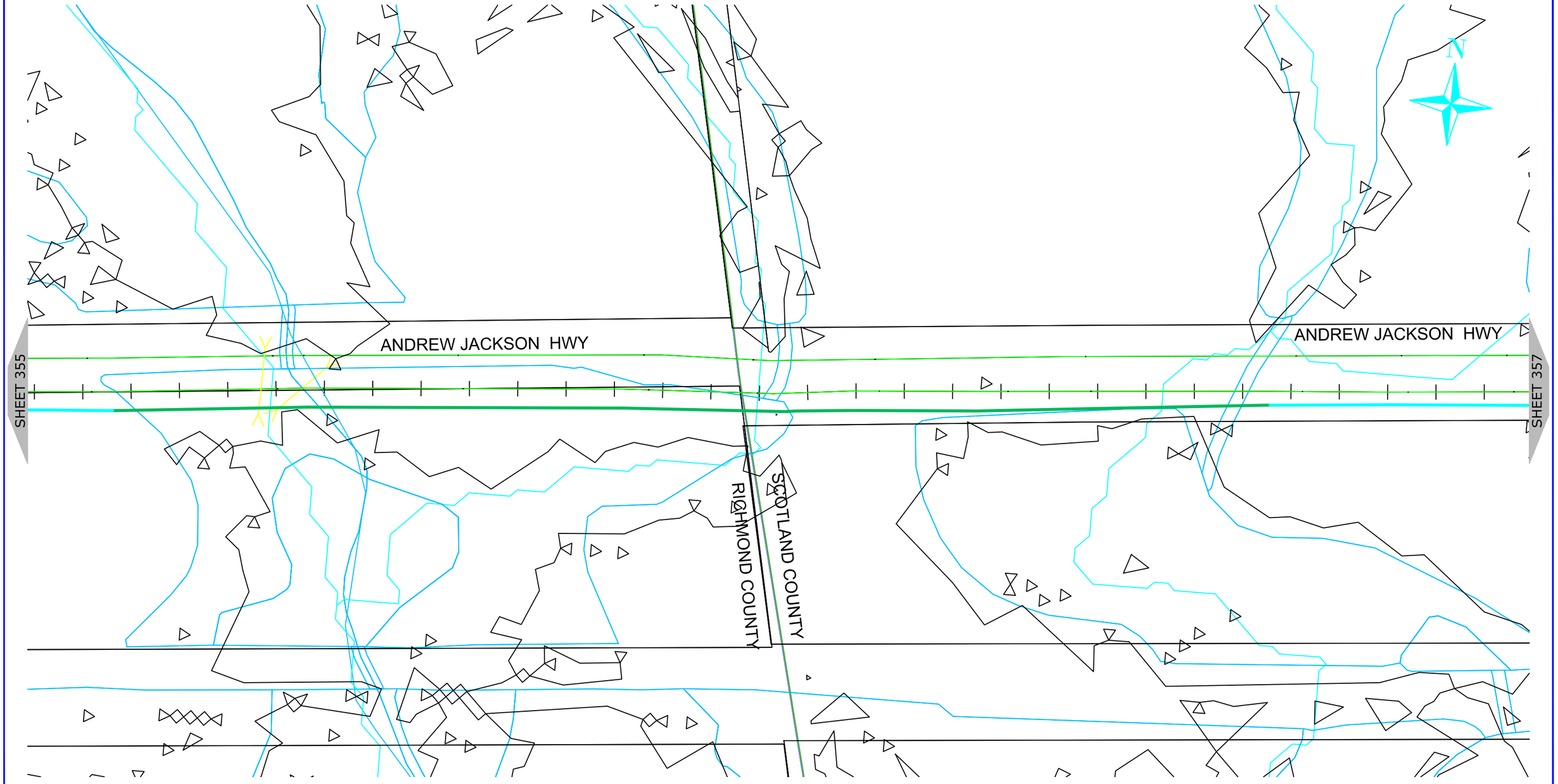
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PROJECT NAME: US-74

SHEET NAME: 355

SHEET: 355

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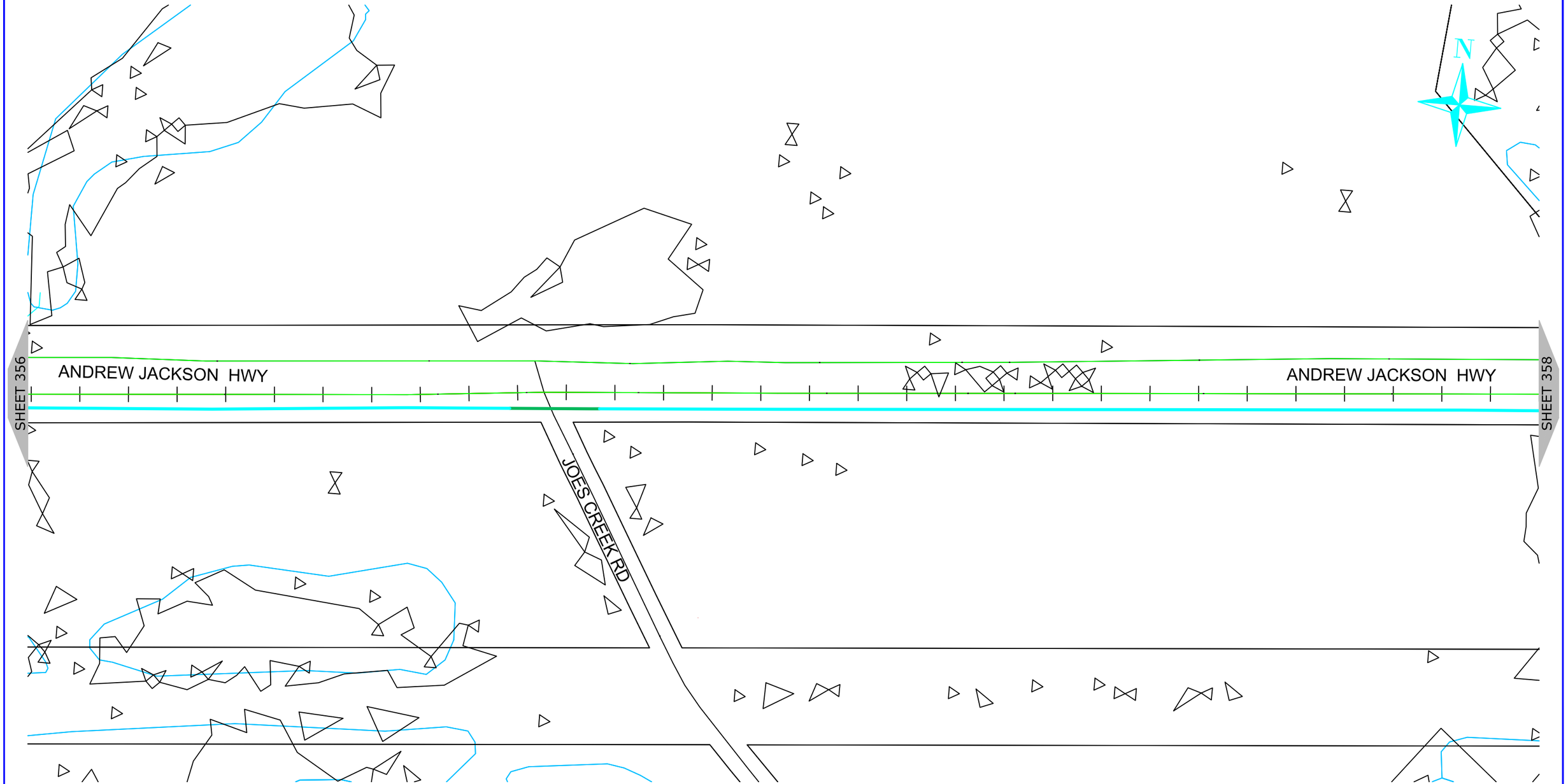
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PROJECT NAME: US-74

SHEET NAME: 356

SHEET: 356

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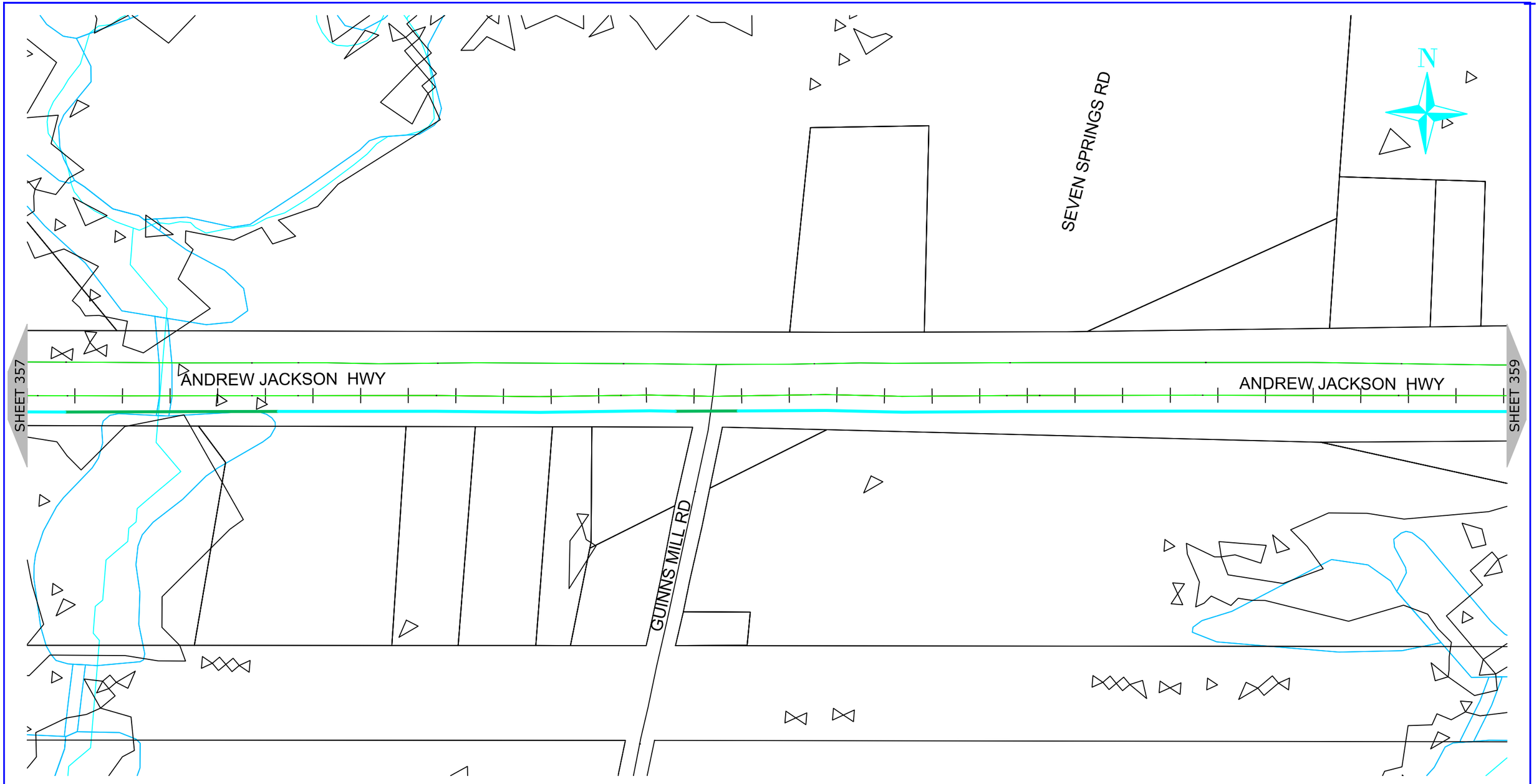
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PROJECT NAME: US-74

SHEET NAME: 357

SHEET: 357

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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 358

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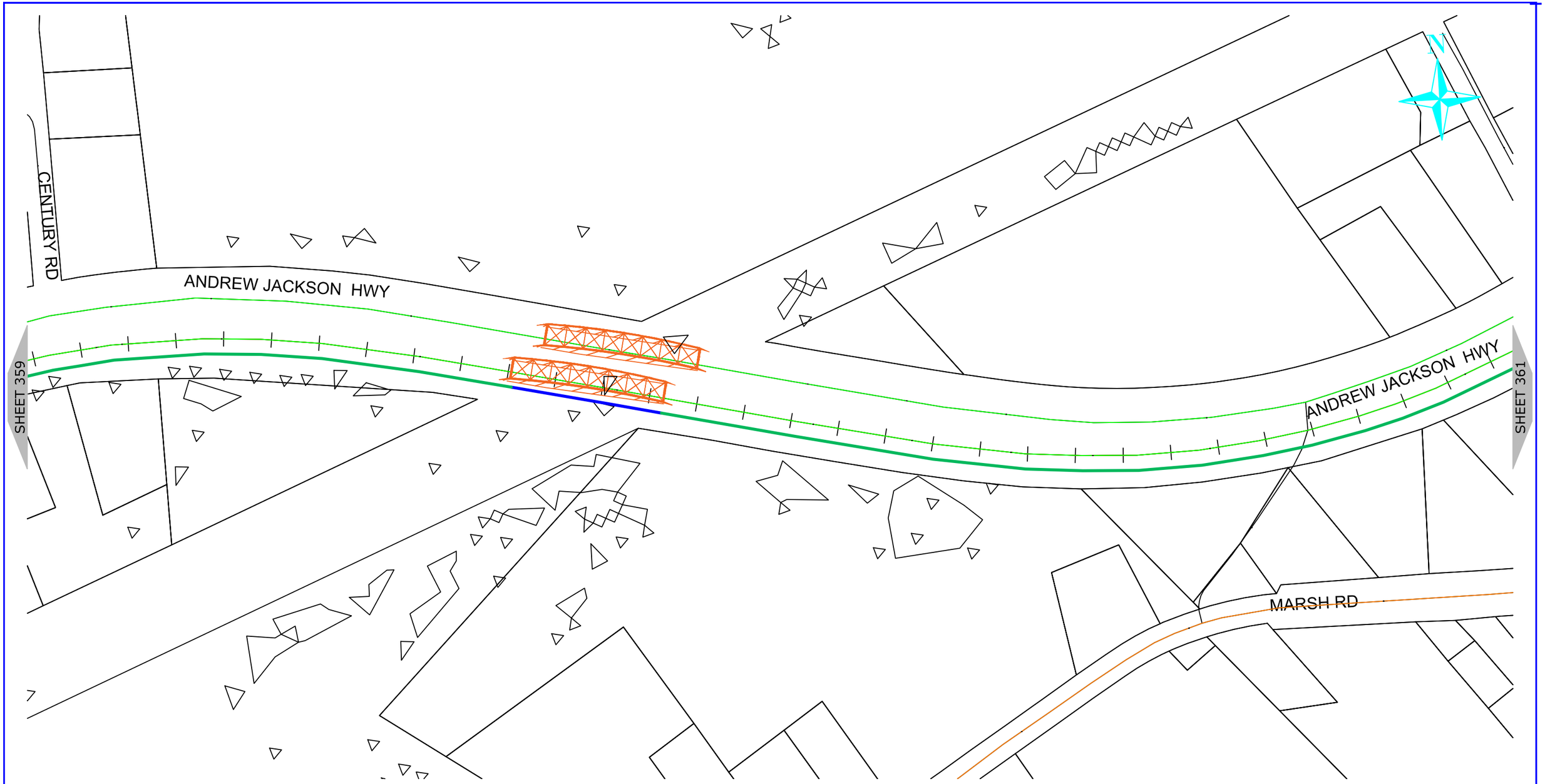
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DRAWN BY:	RAMTECH
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PROJECT NAME:
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SHEET NAME:
359

SHEET:
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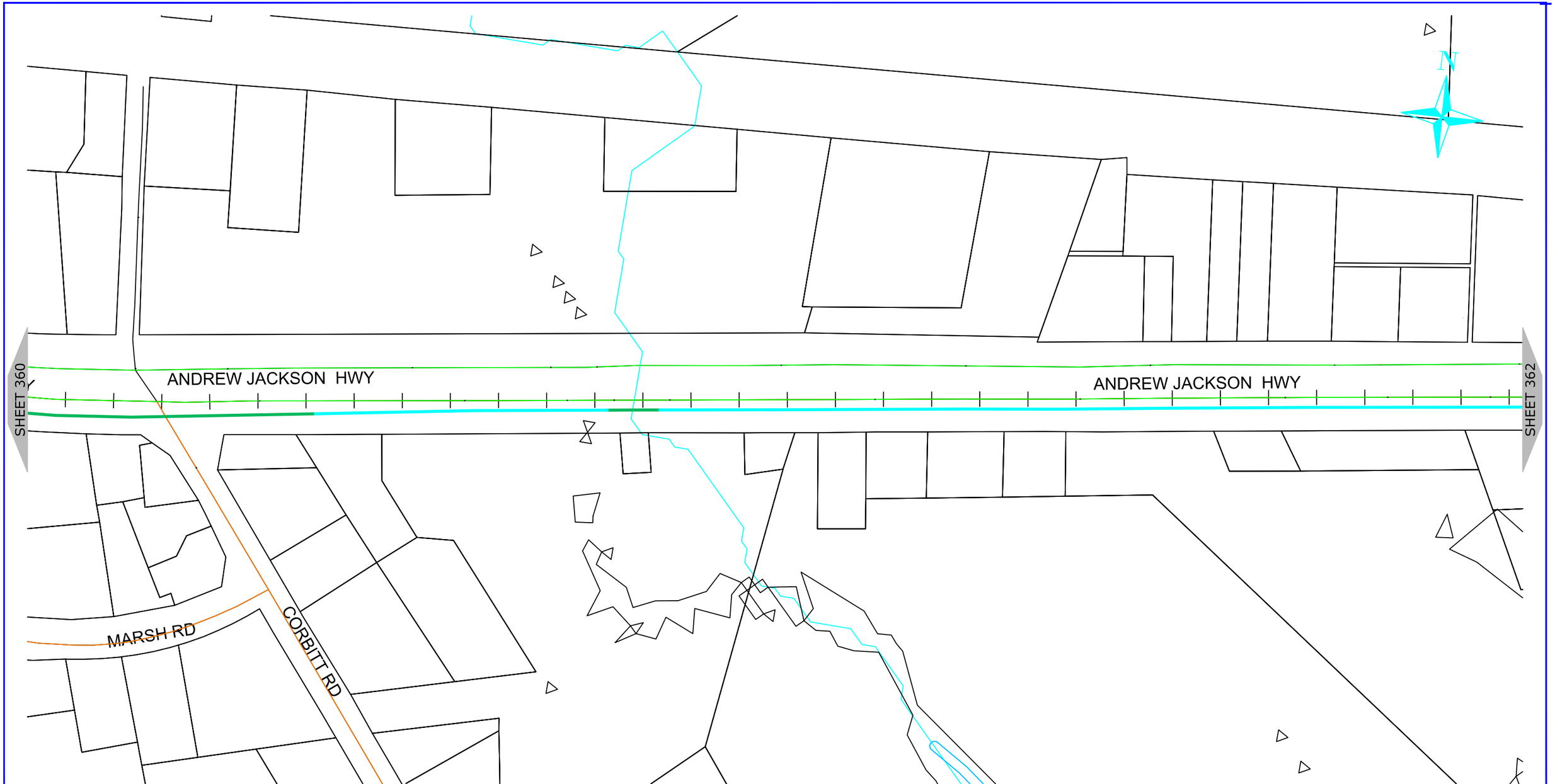
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 360

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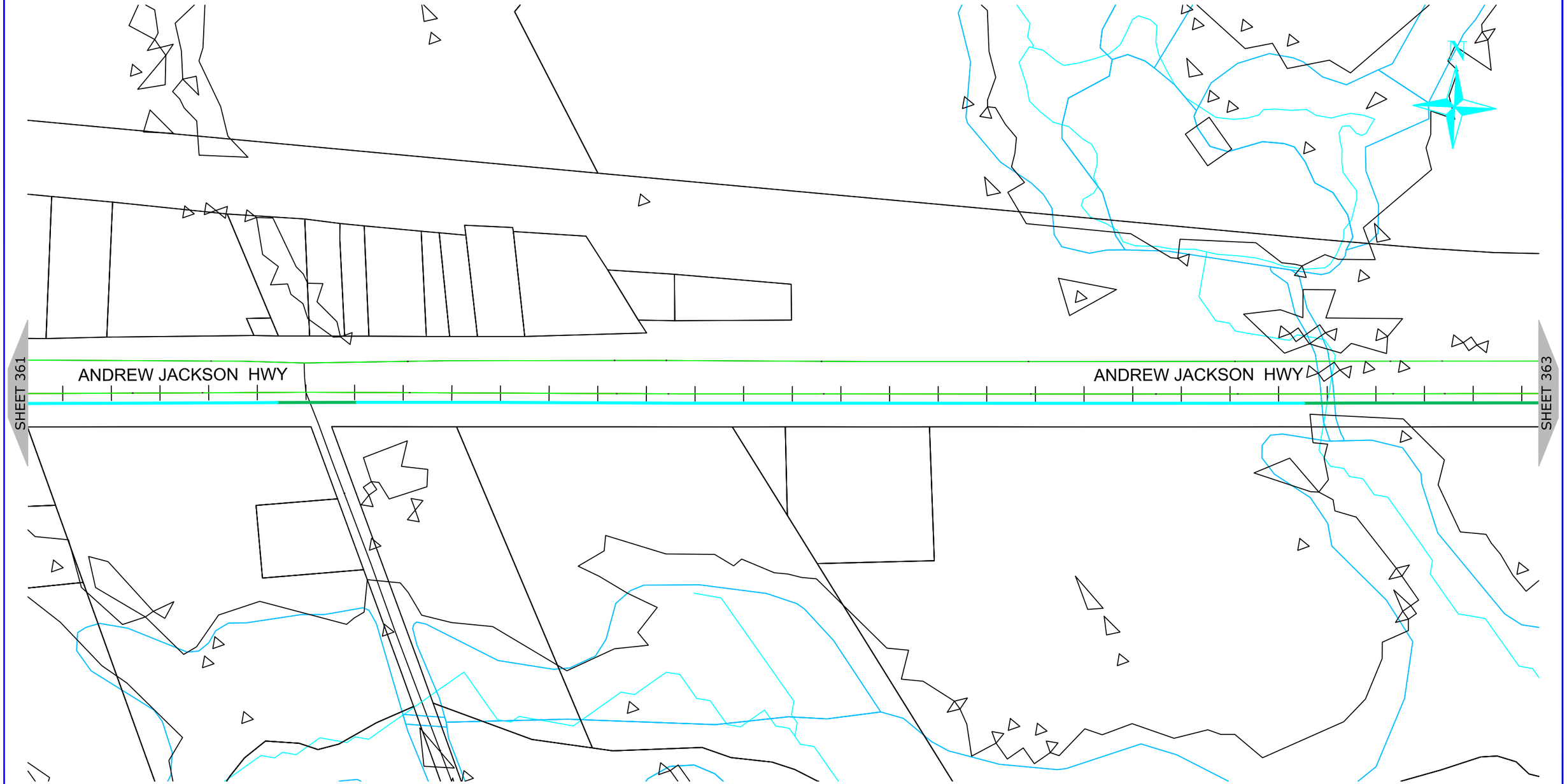
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 361

SHEET: 361

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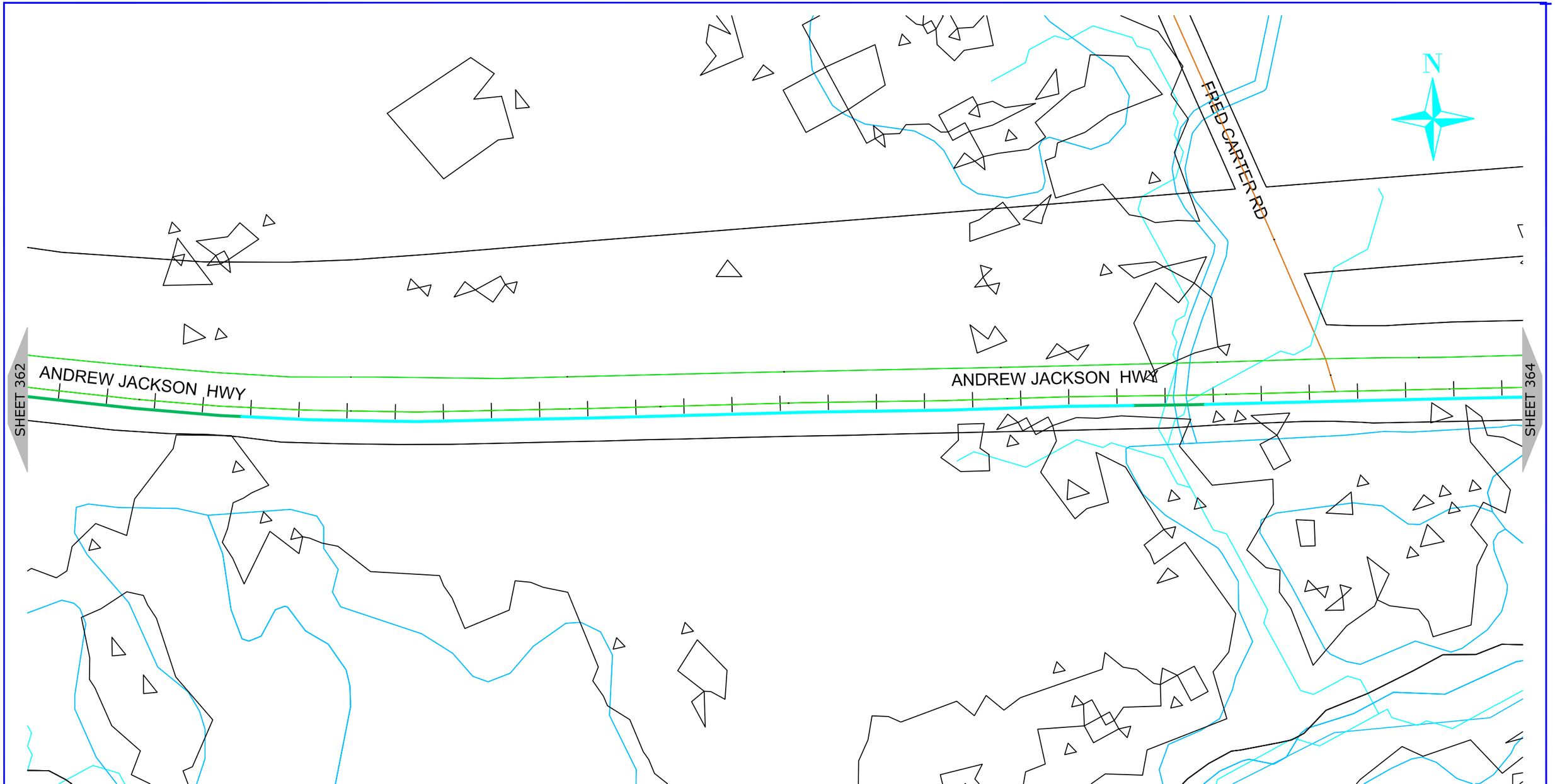
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 362

SHEET: 362

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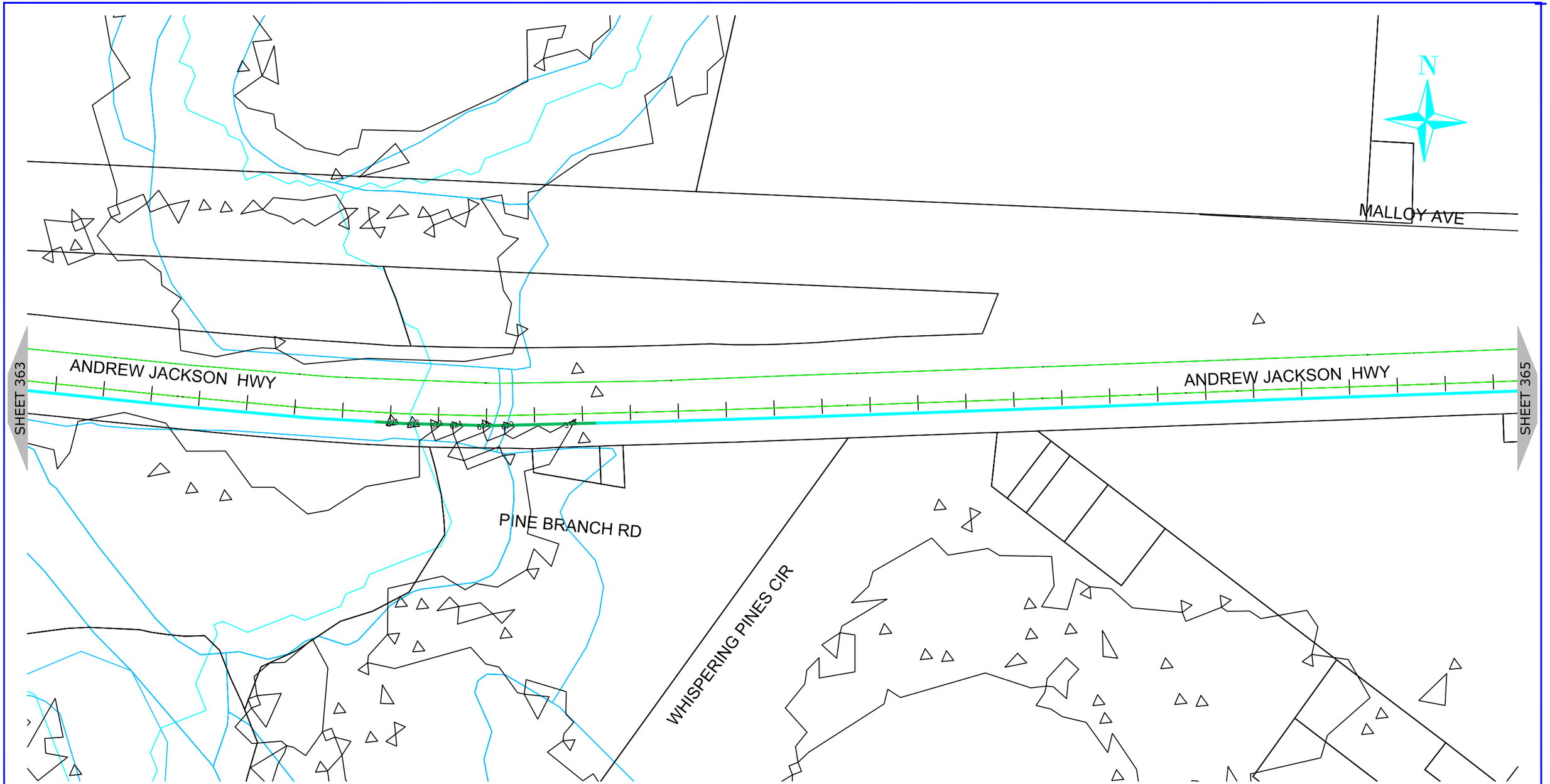
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DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
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SHEET NAME:
363

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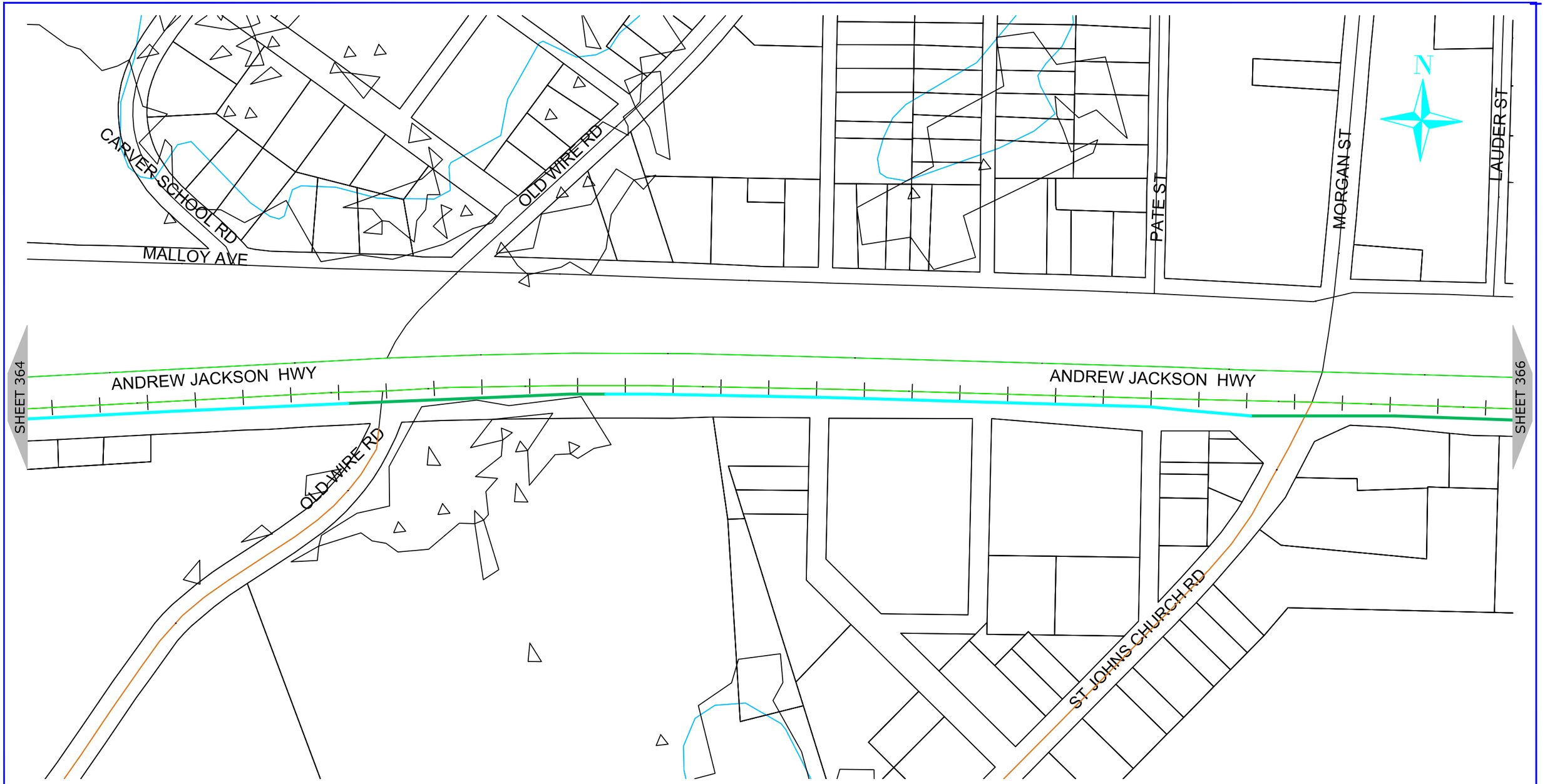
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
364

SHEET:
364

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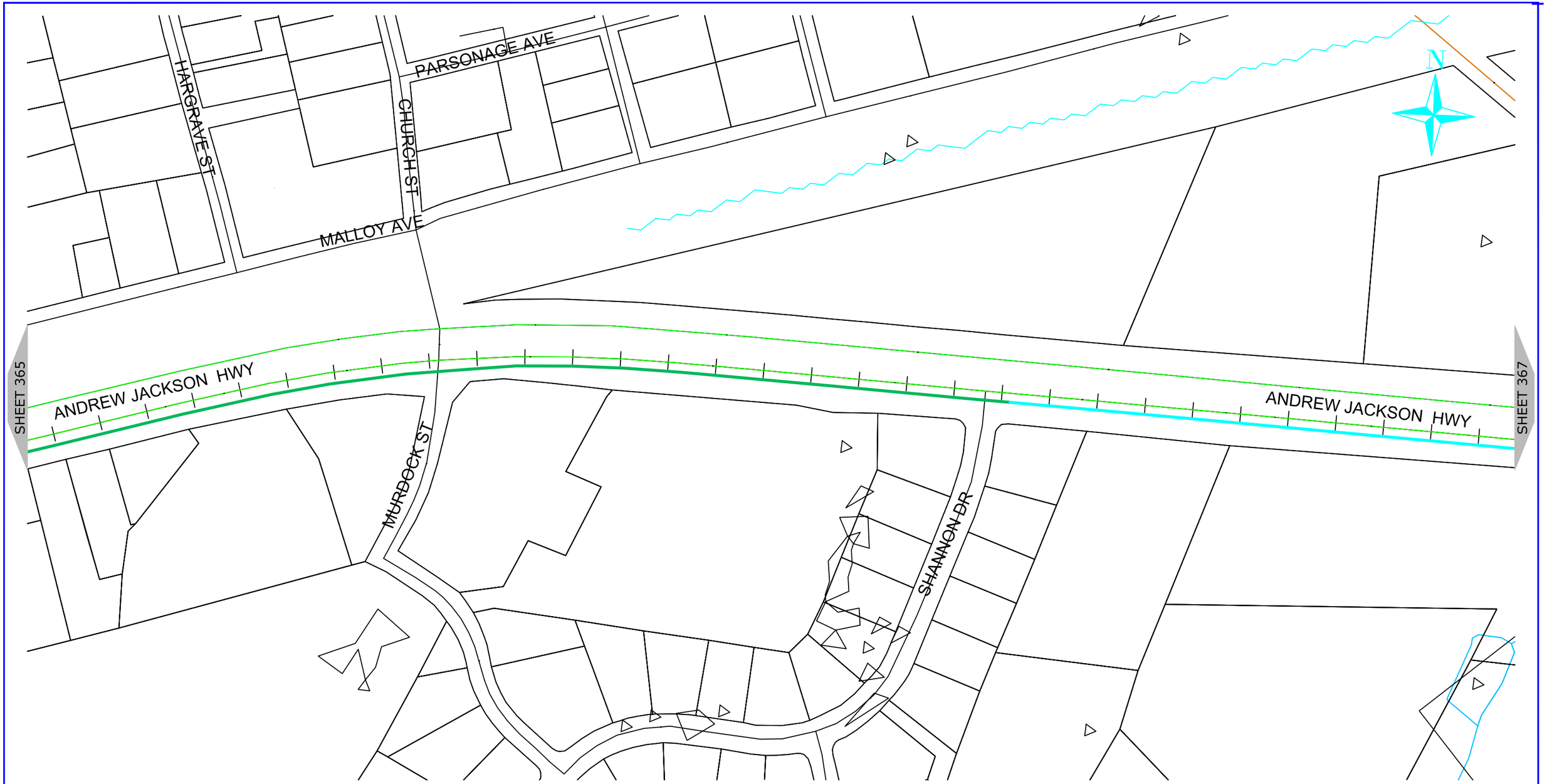
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 365

SHEET: 365

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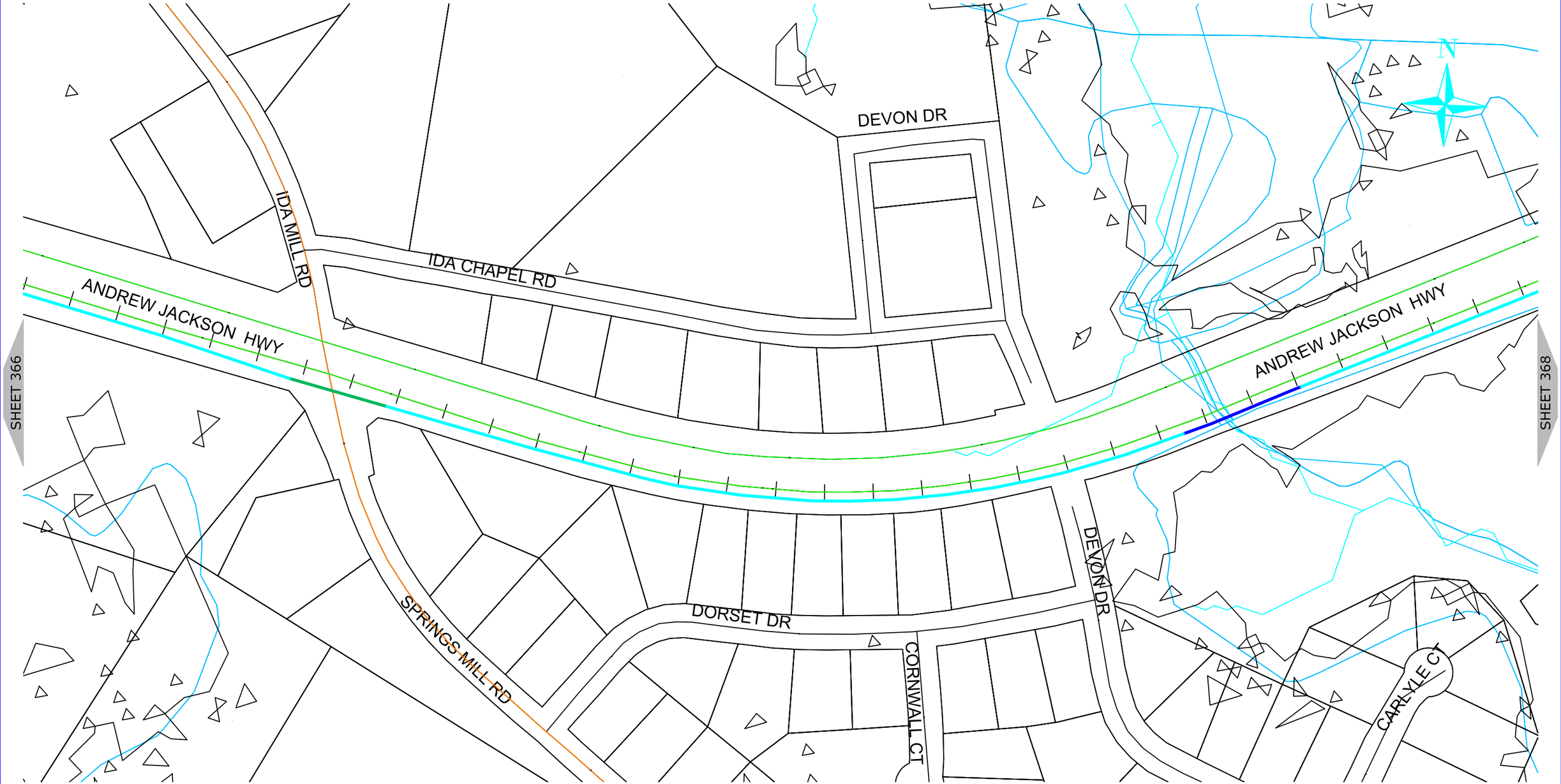
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 366

SHEET: 366

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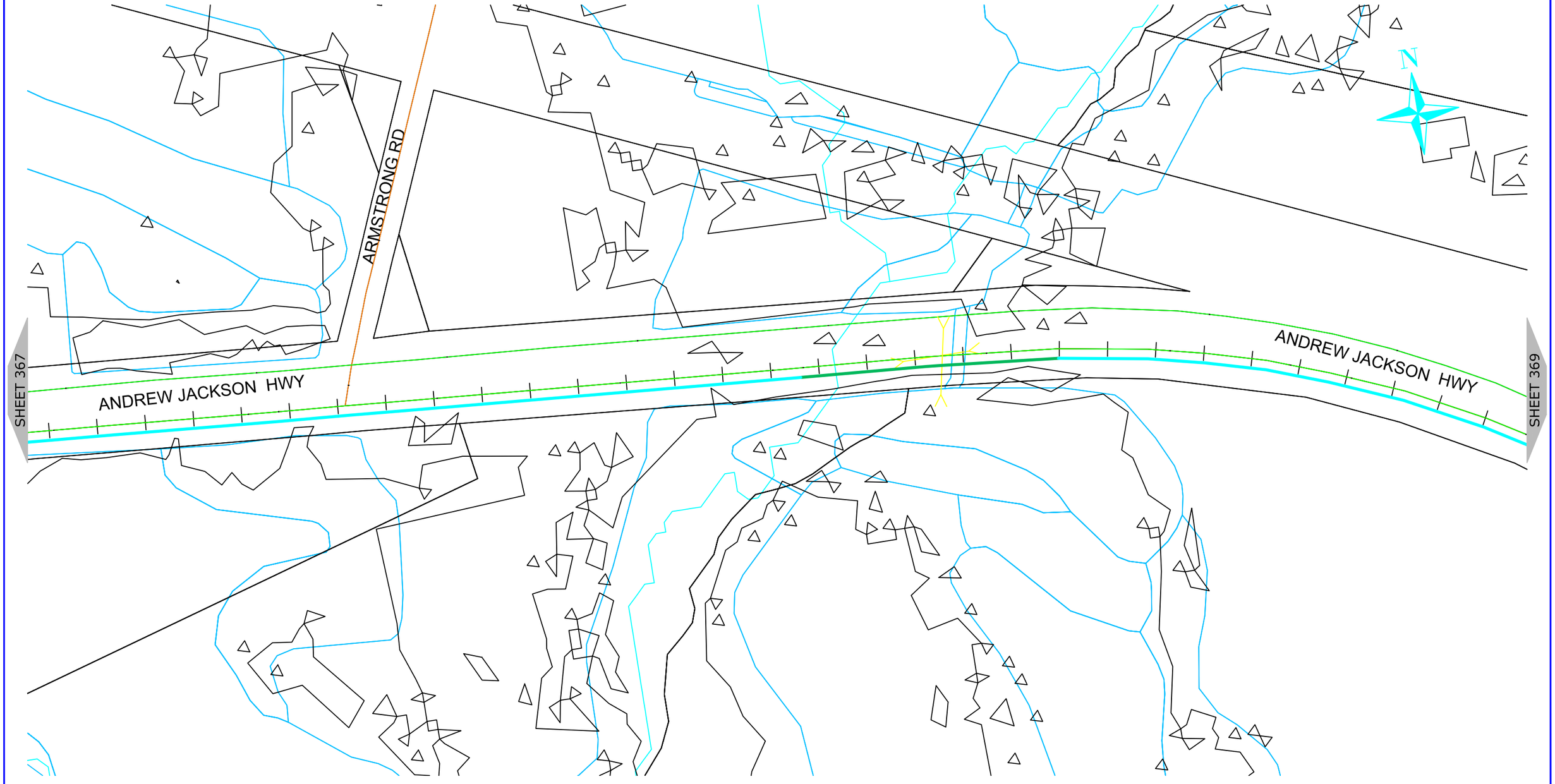
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 367

SHEET: 367

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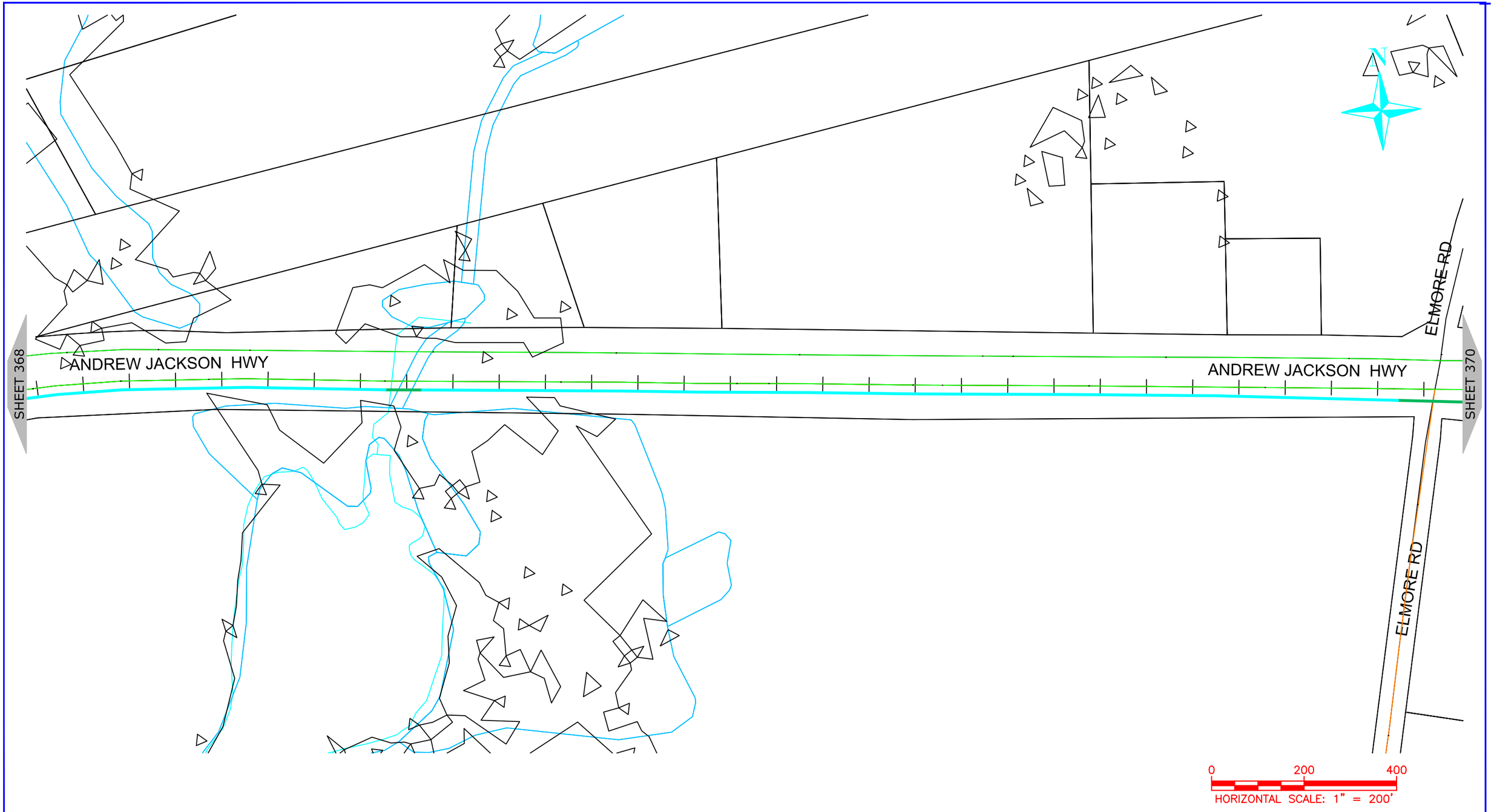
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
368

SHEET:
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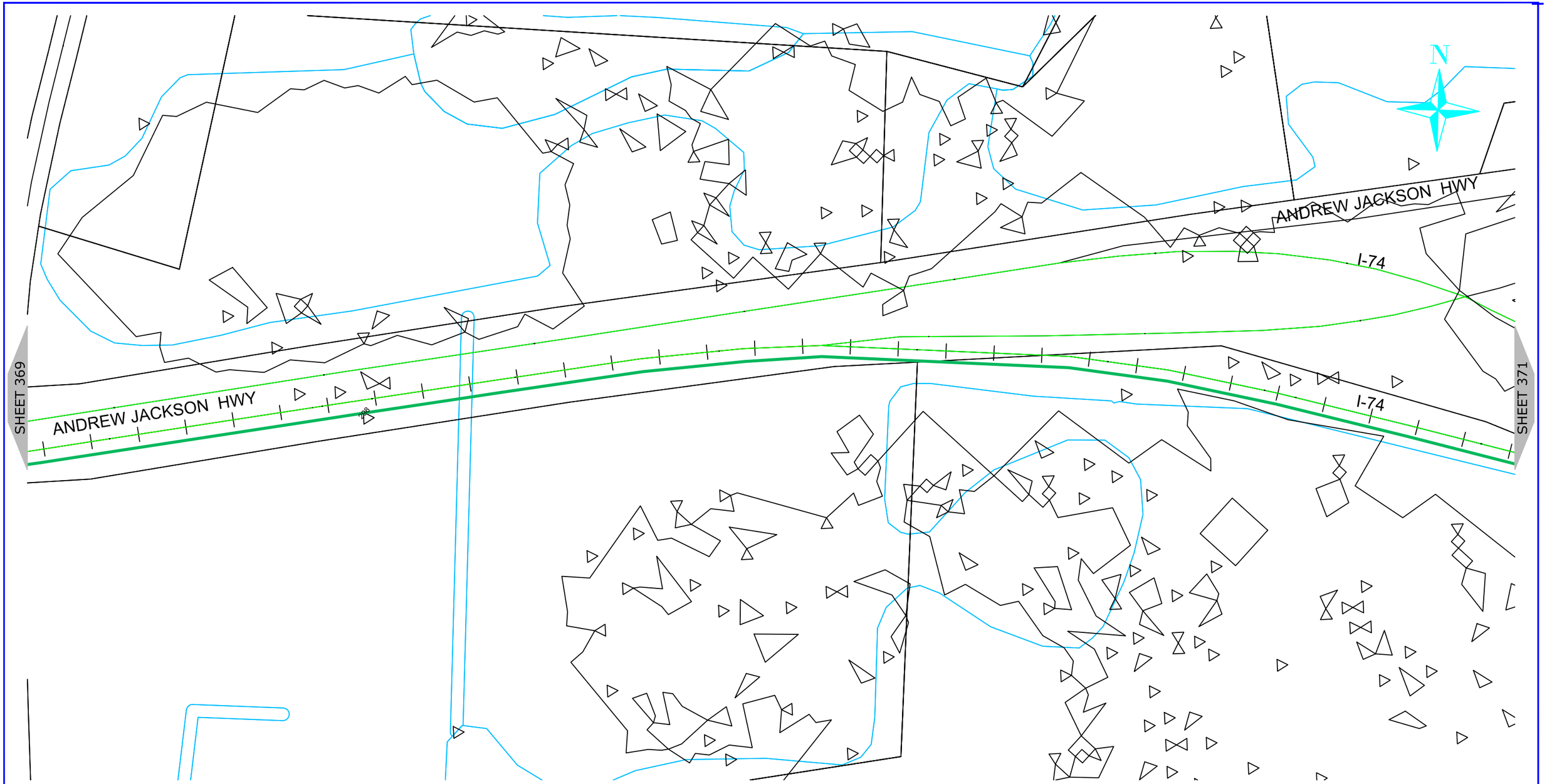
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PROJECT NAME: US-74

SHEET NAME: 369

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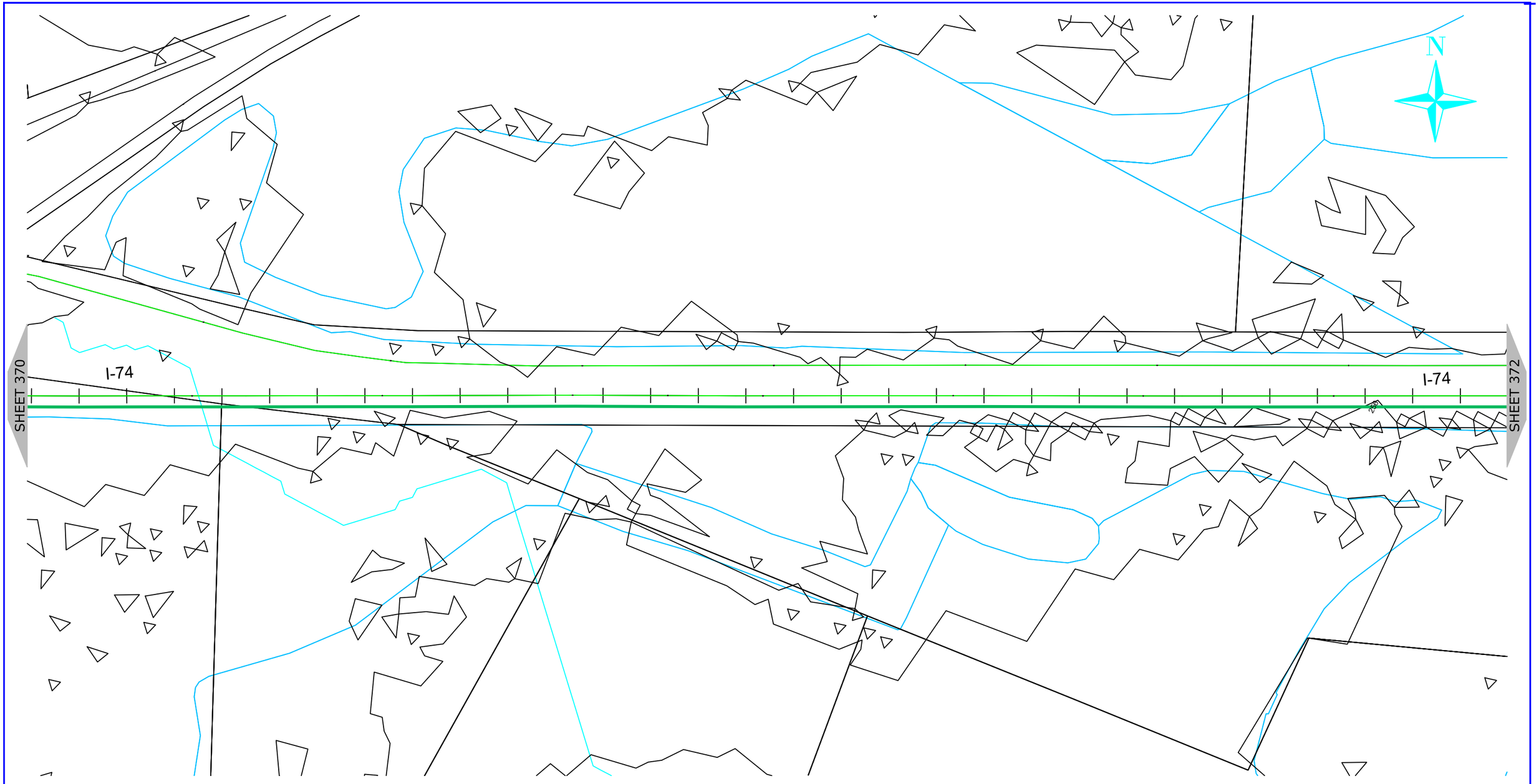
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
370

SHEET:
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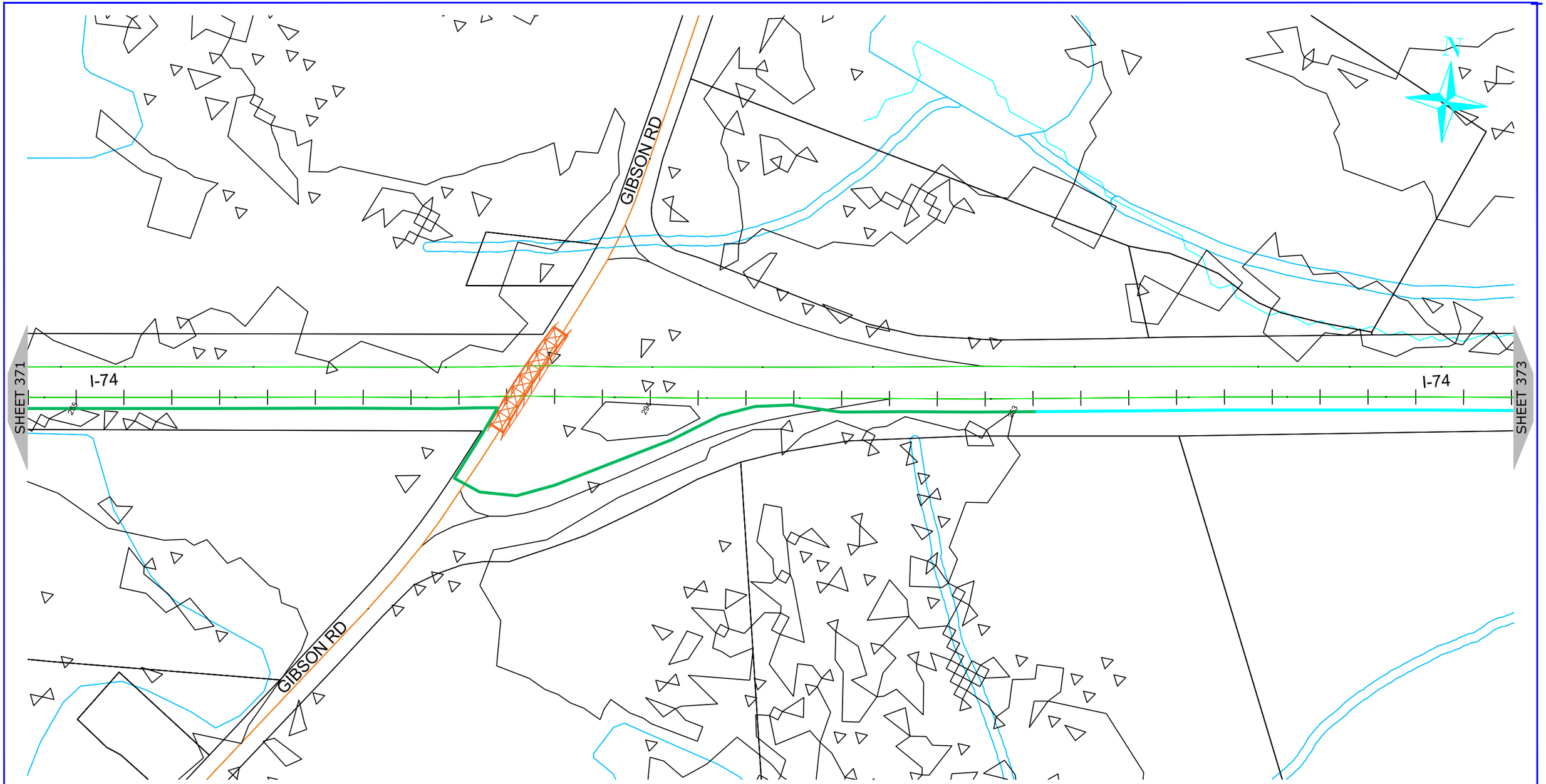
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 371

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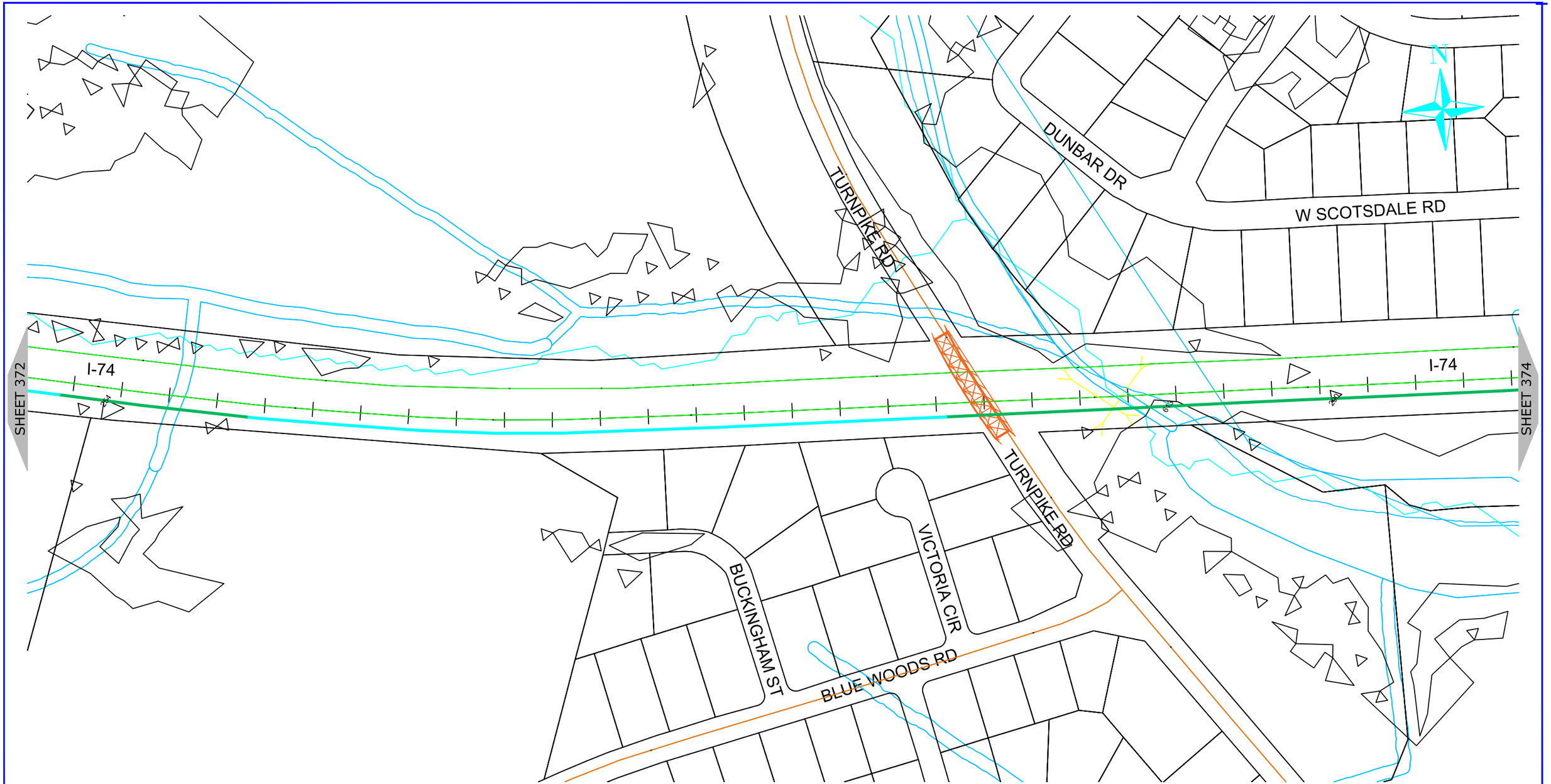
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DATE:	12-05-2021
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PROJECT NAME: US-74

SHEET NAME: 372

SHEET: 372

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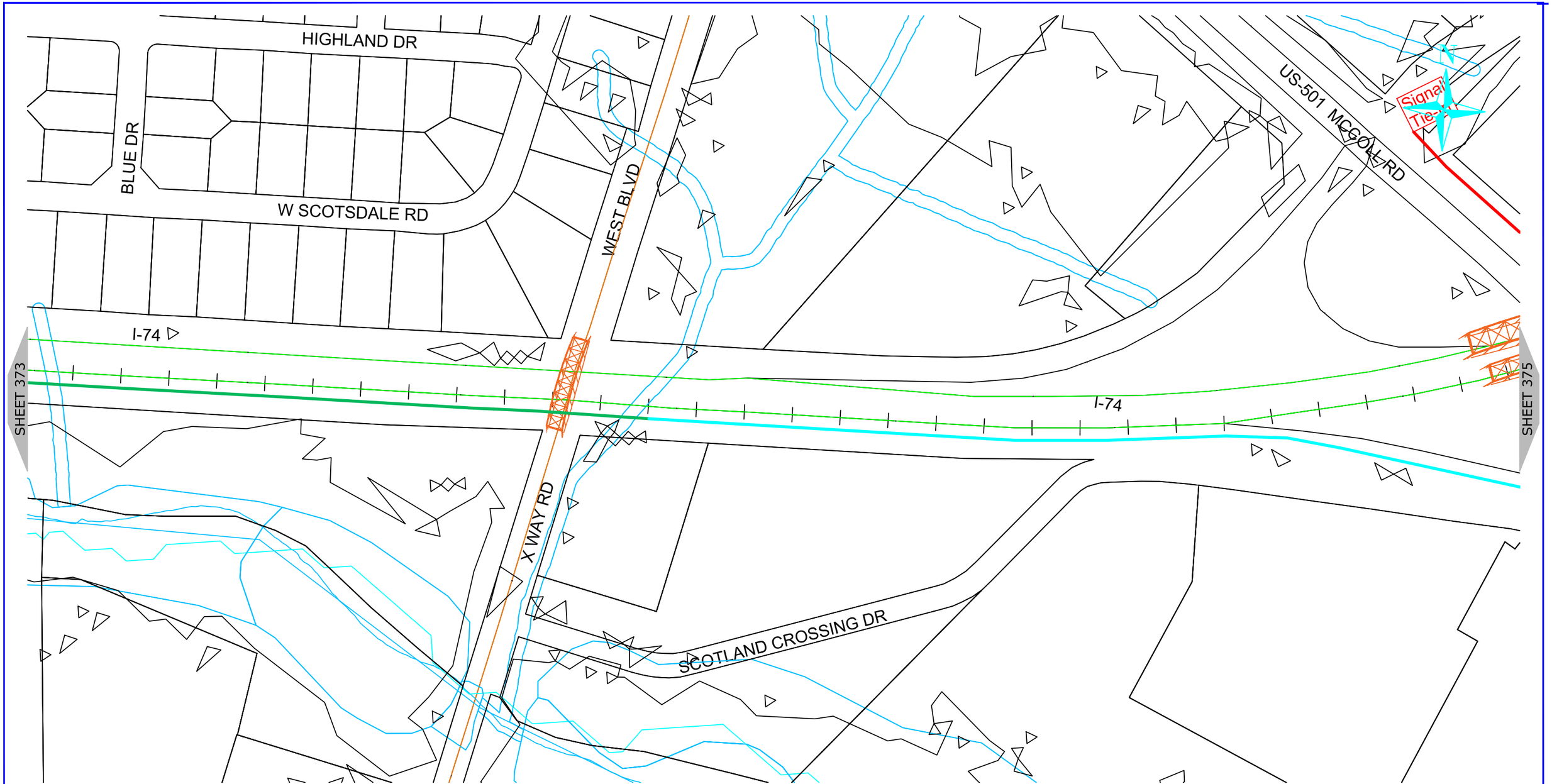
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DATE:	12-05-2021
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PROJECT NAME: US-74

SHEET NAME: 373

SHEET: 373

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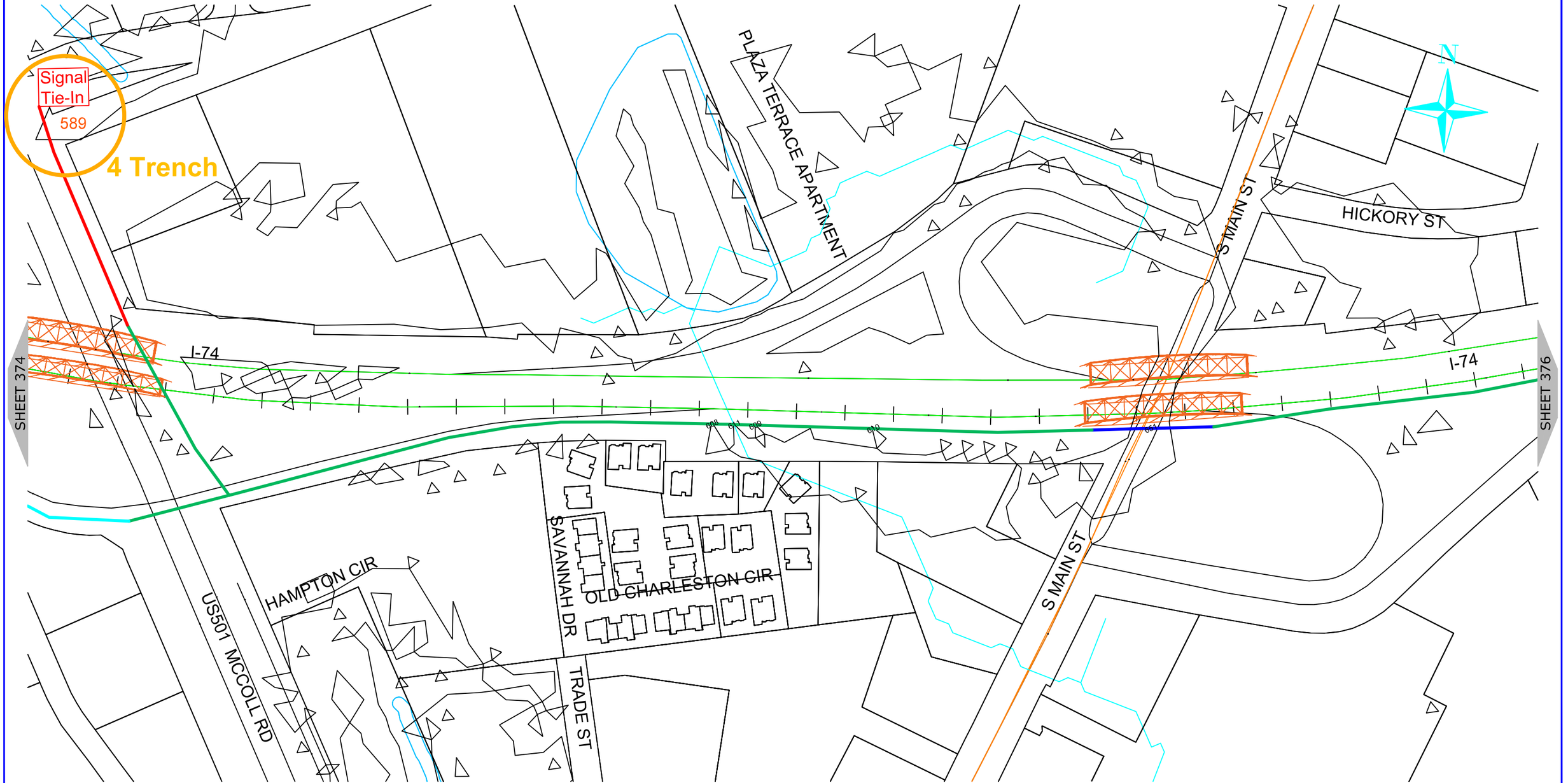
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
374

SHEET:
374

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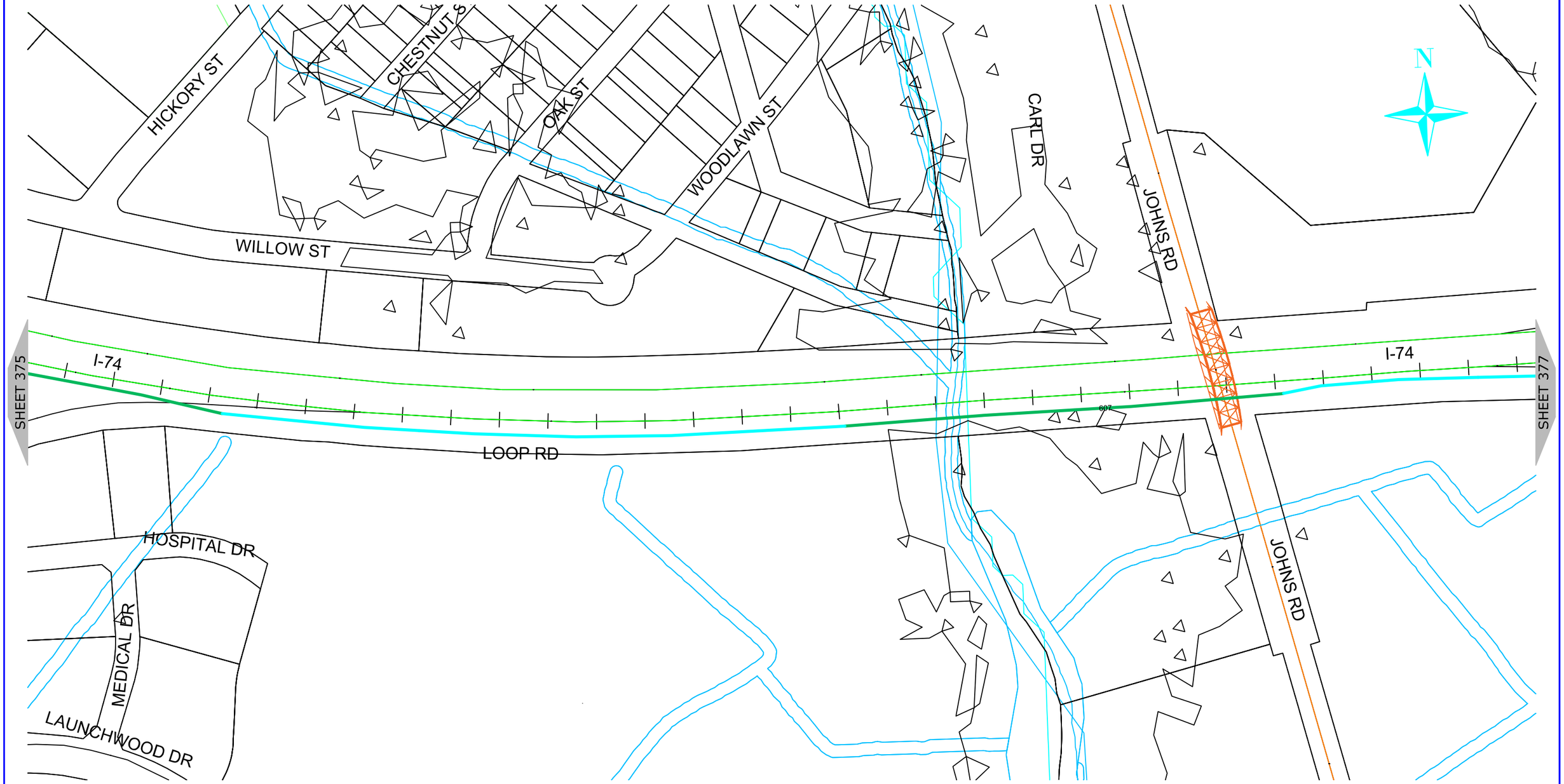
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 375

SHEET: 375

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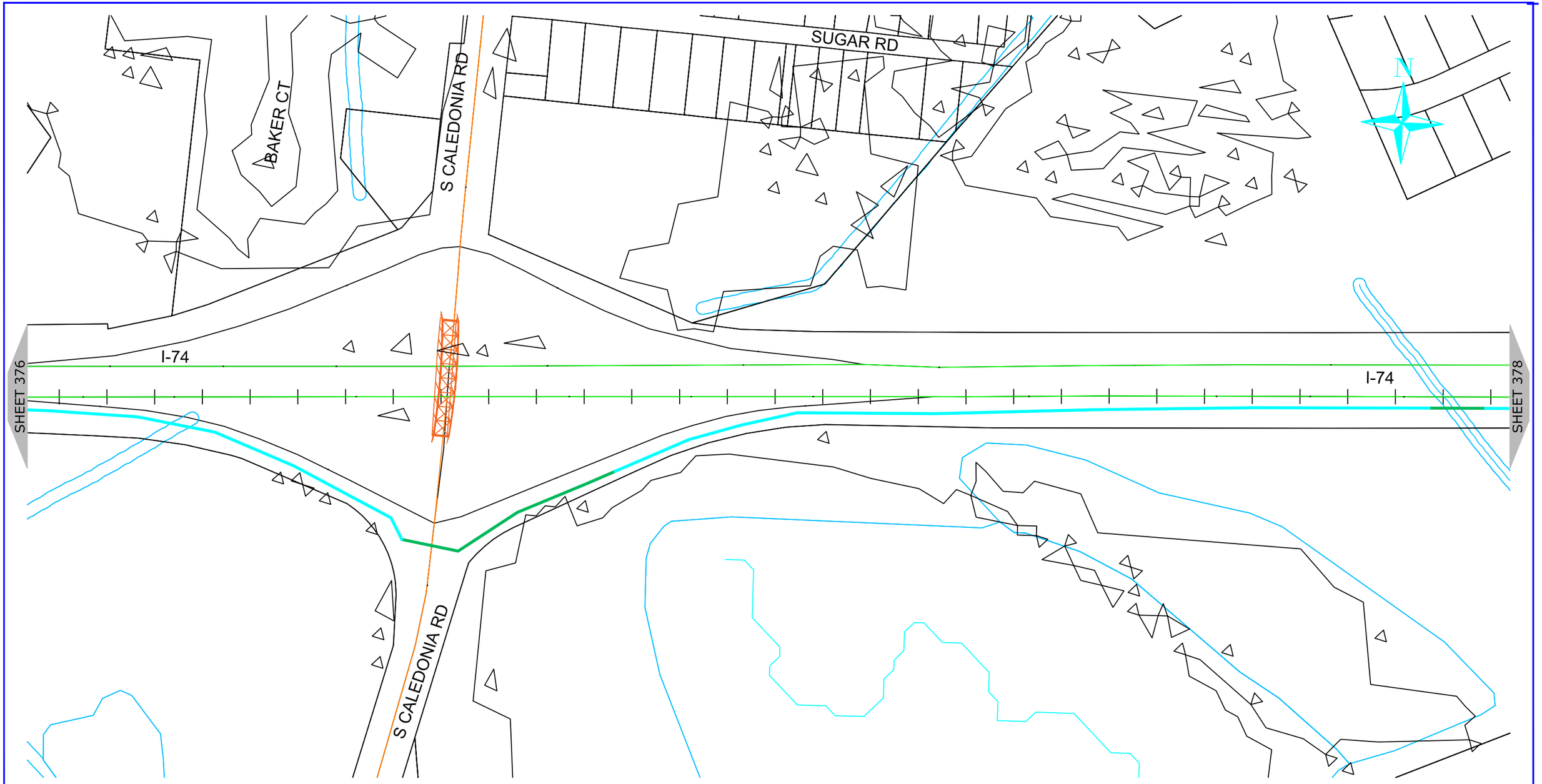
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 376

SHEET: 376

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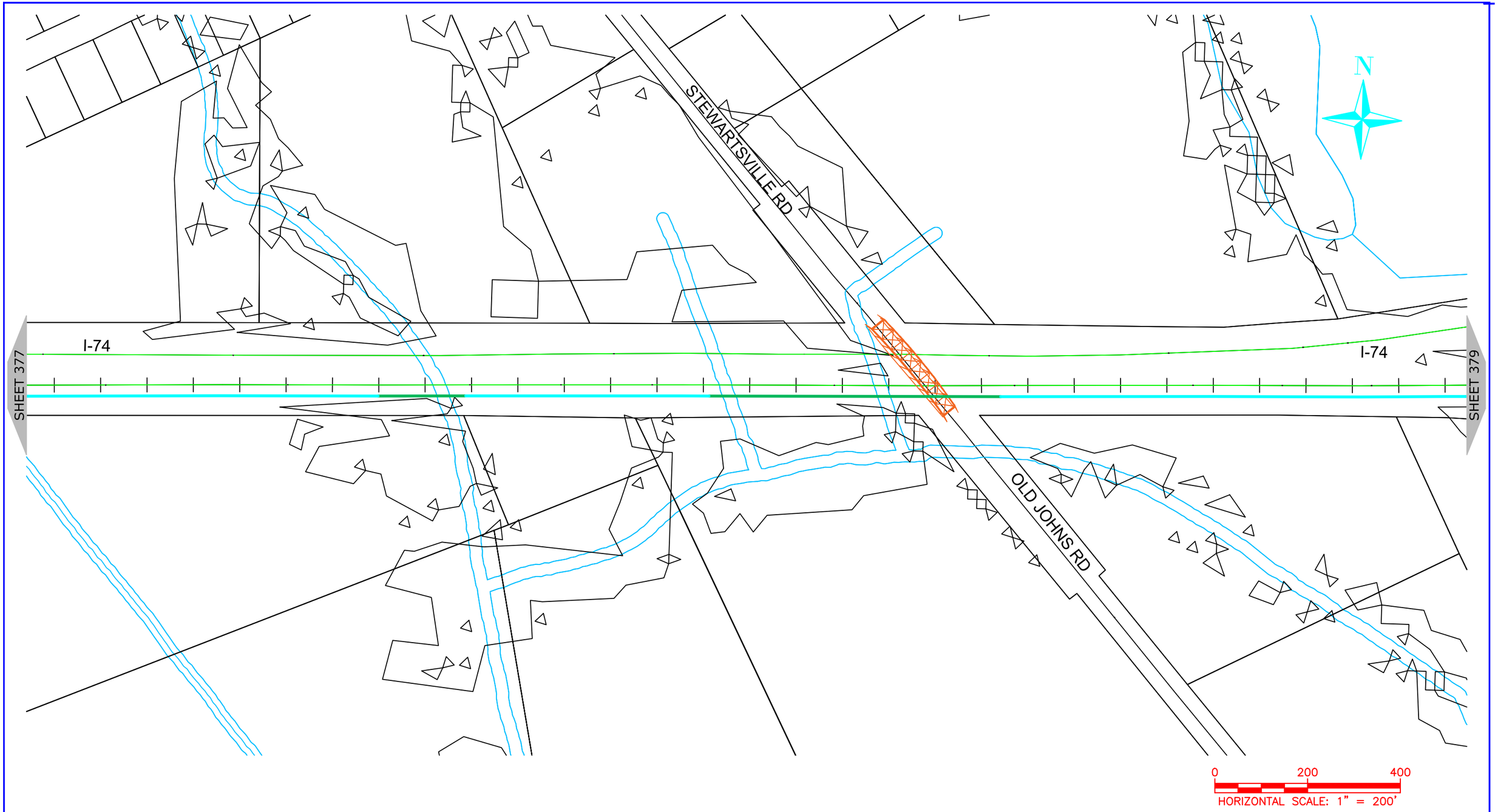
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
377

SHEET:
377

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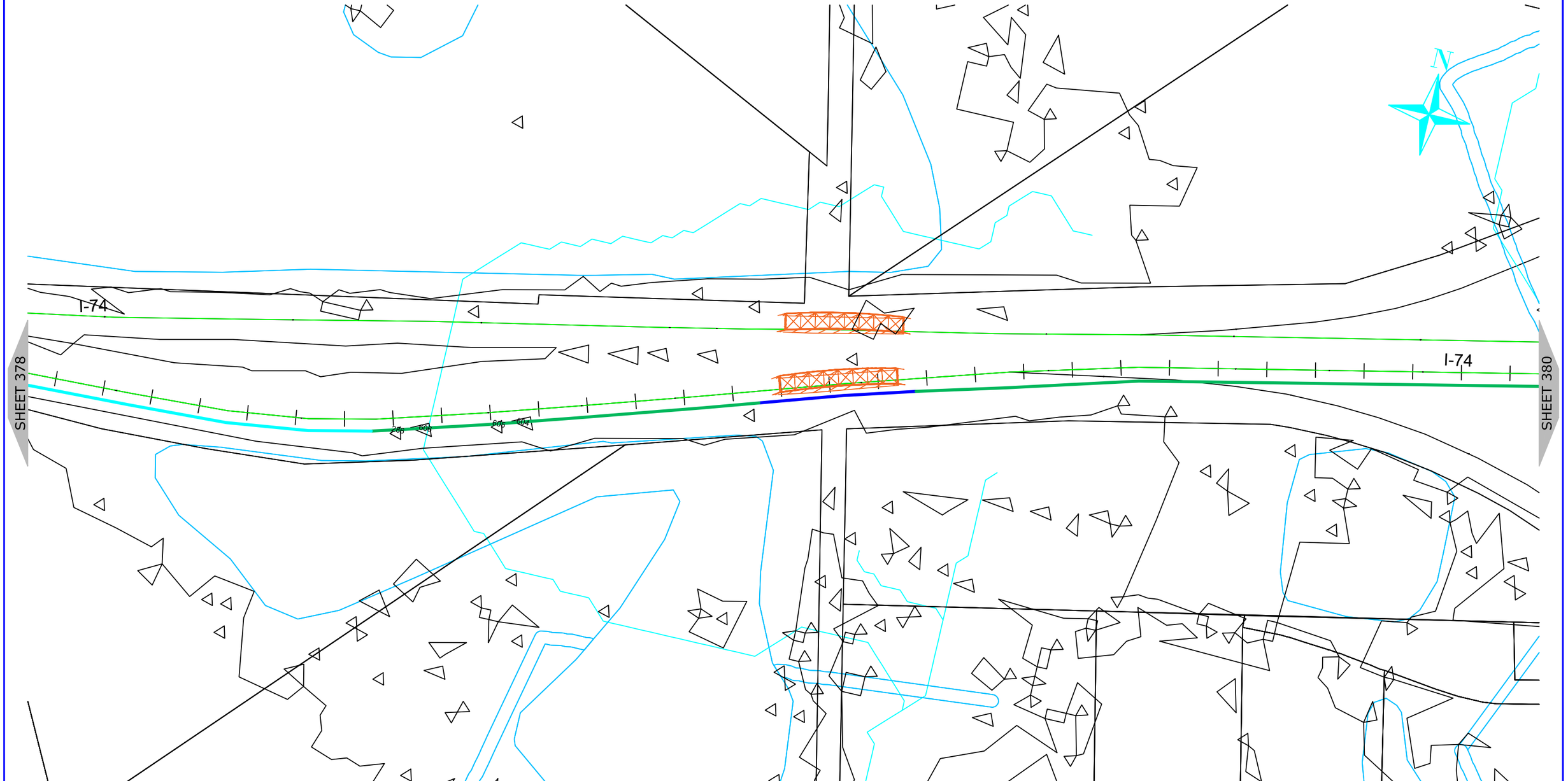
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DRAWN BY:	RAMTECH
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PROJECT NAME:
US-74

SHEET NAME:
378

SHEET:
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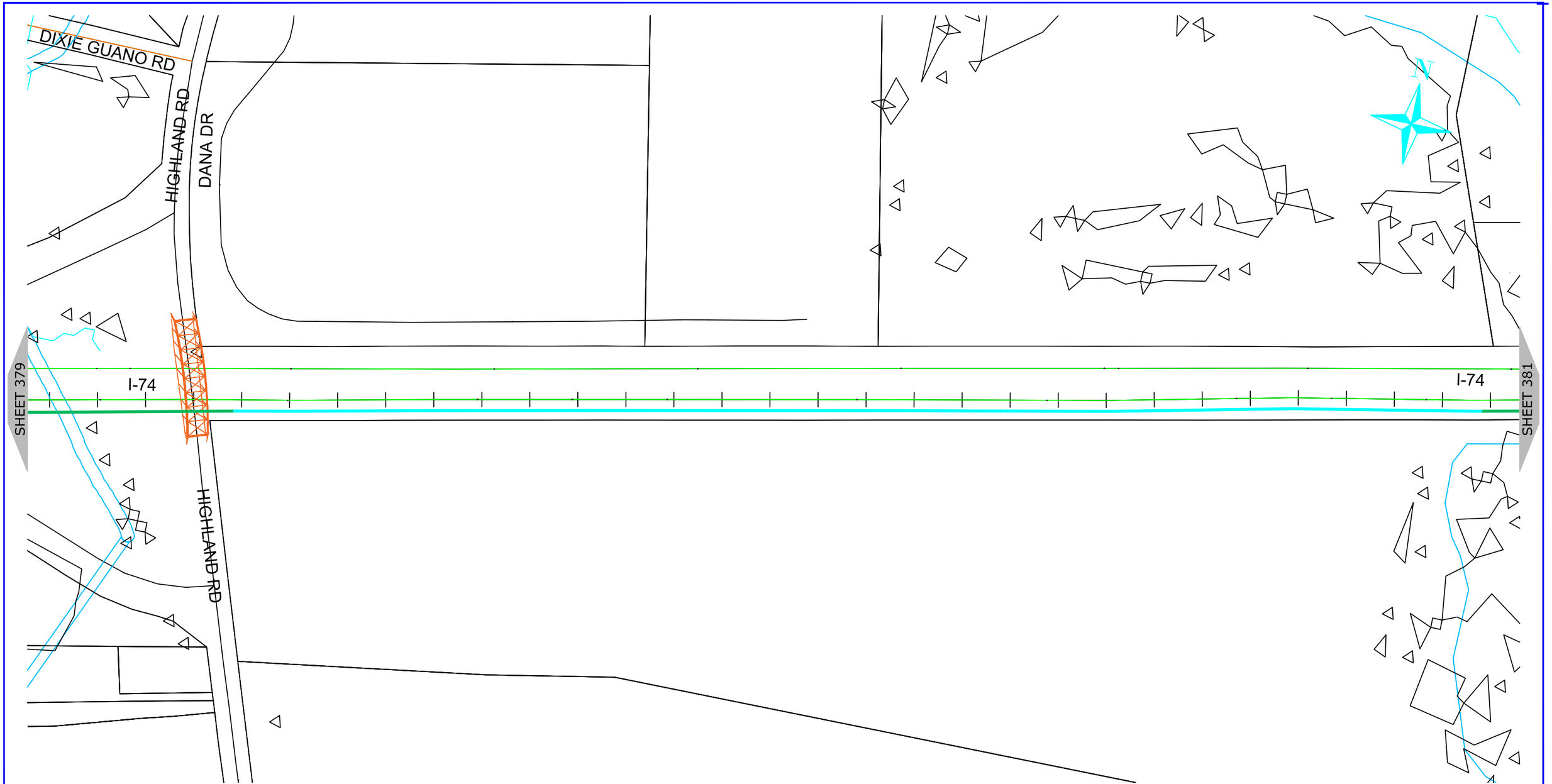
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SCALE:	1:200
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PROJECT NAME: US-74

SHEET NAME: 379

SHEET: 379

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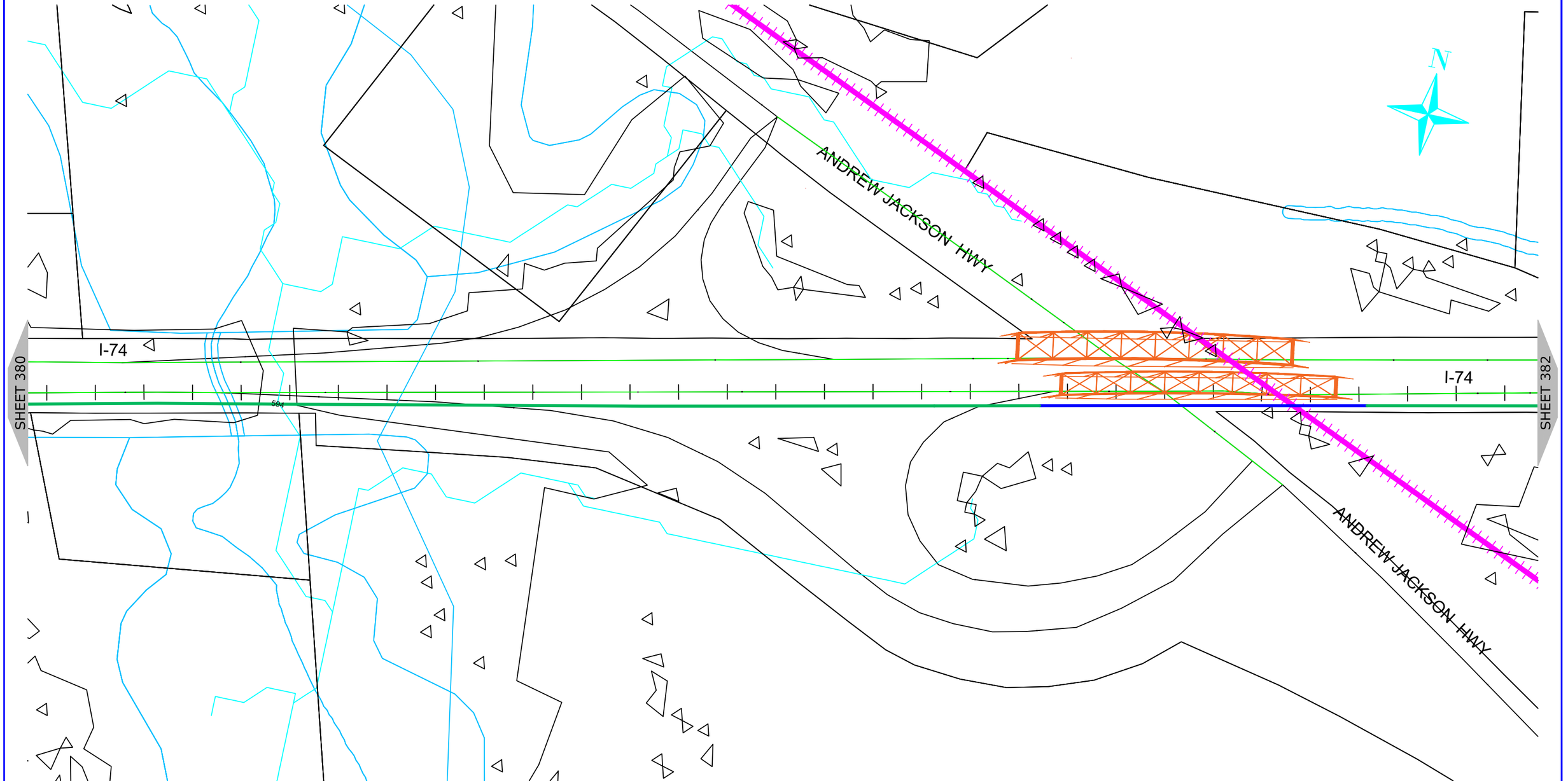
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 380

SHEET: 380

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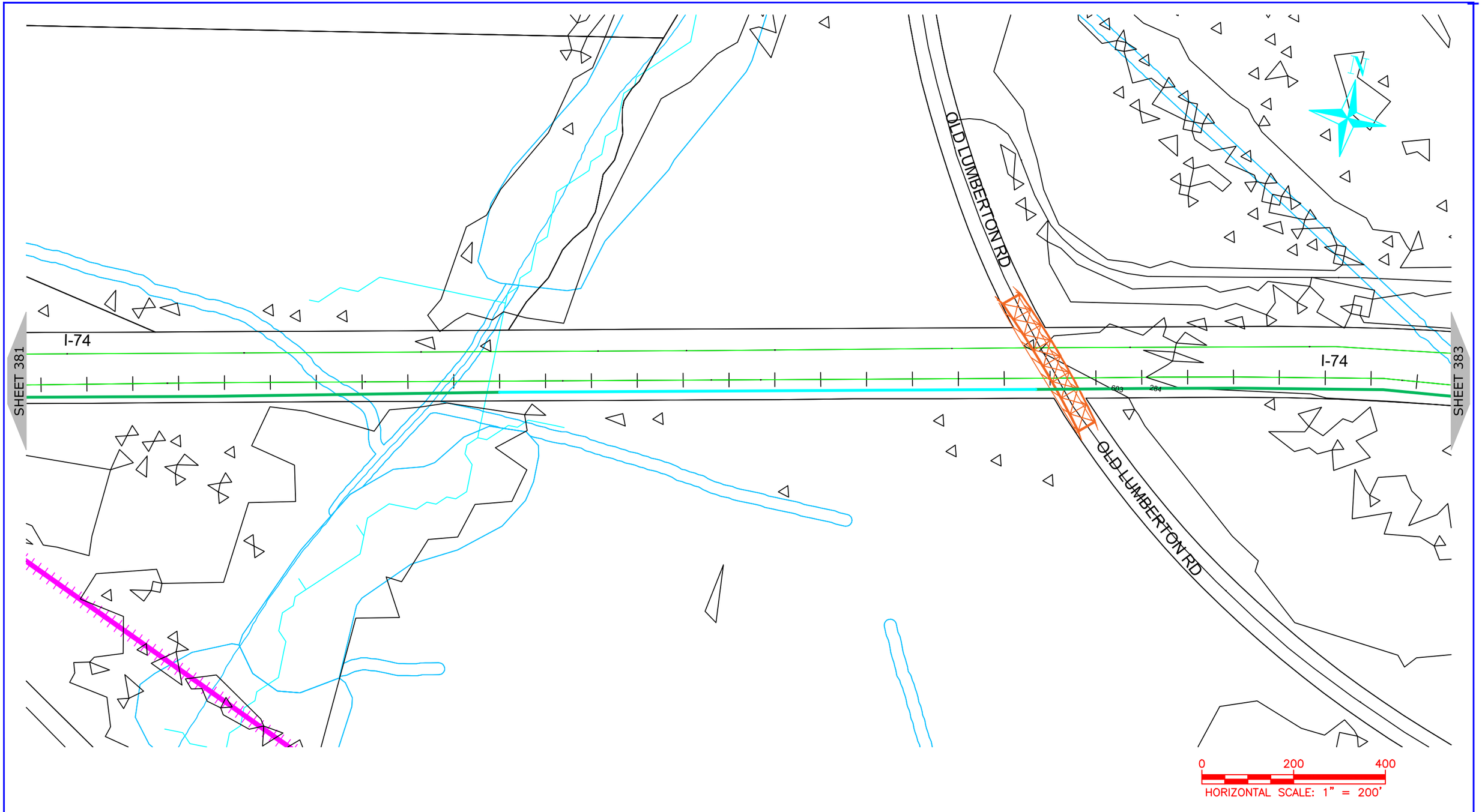
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 381

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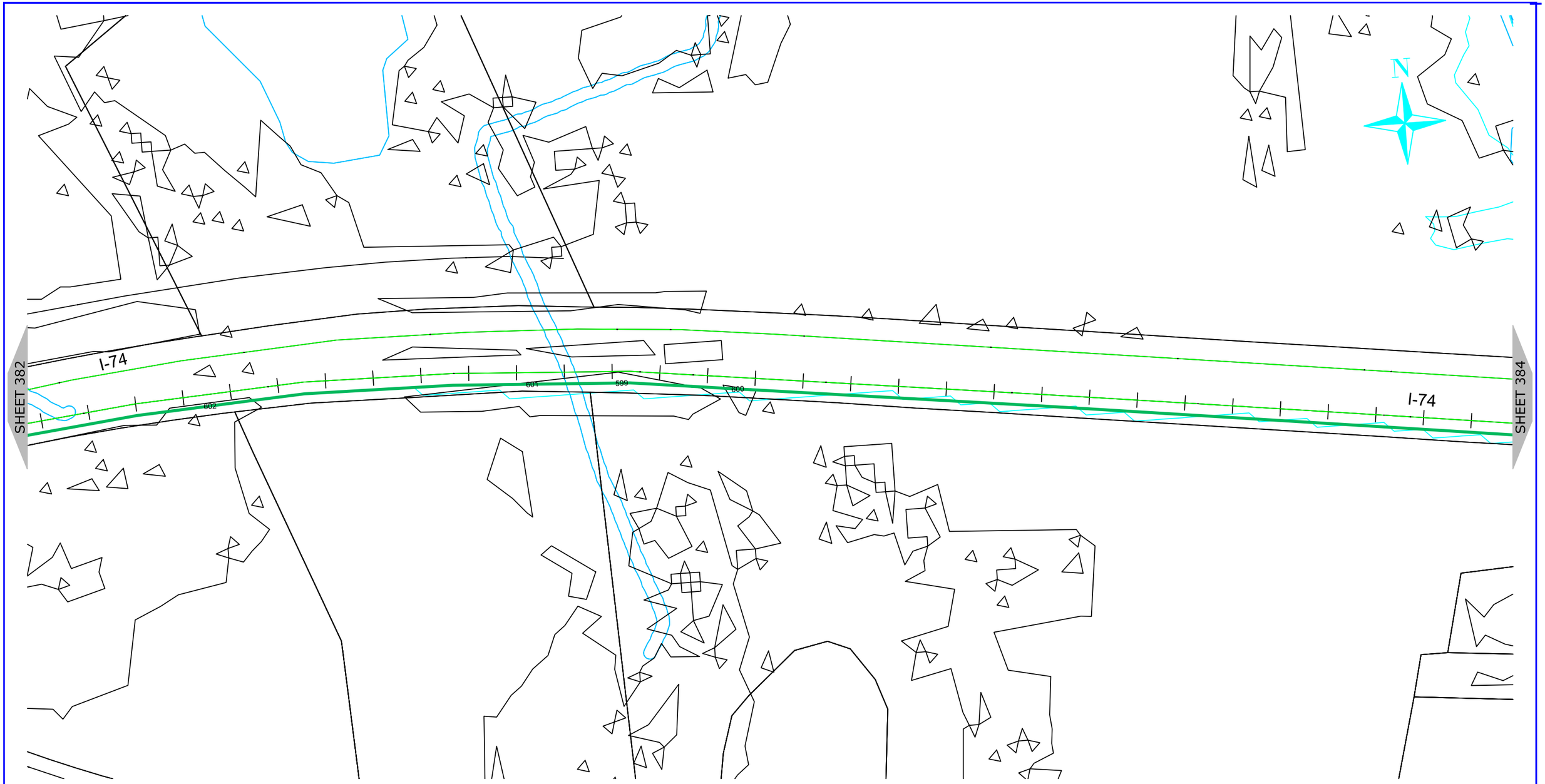
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
382

SHEET:
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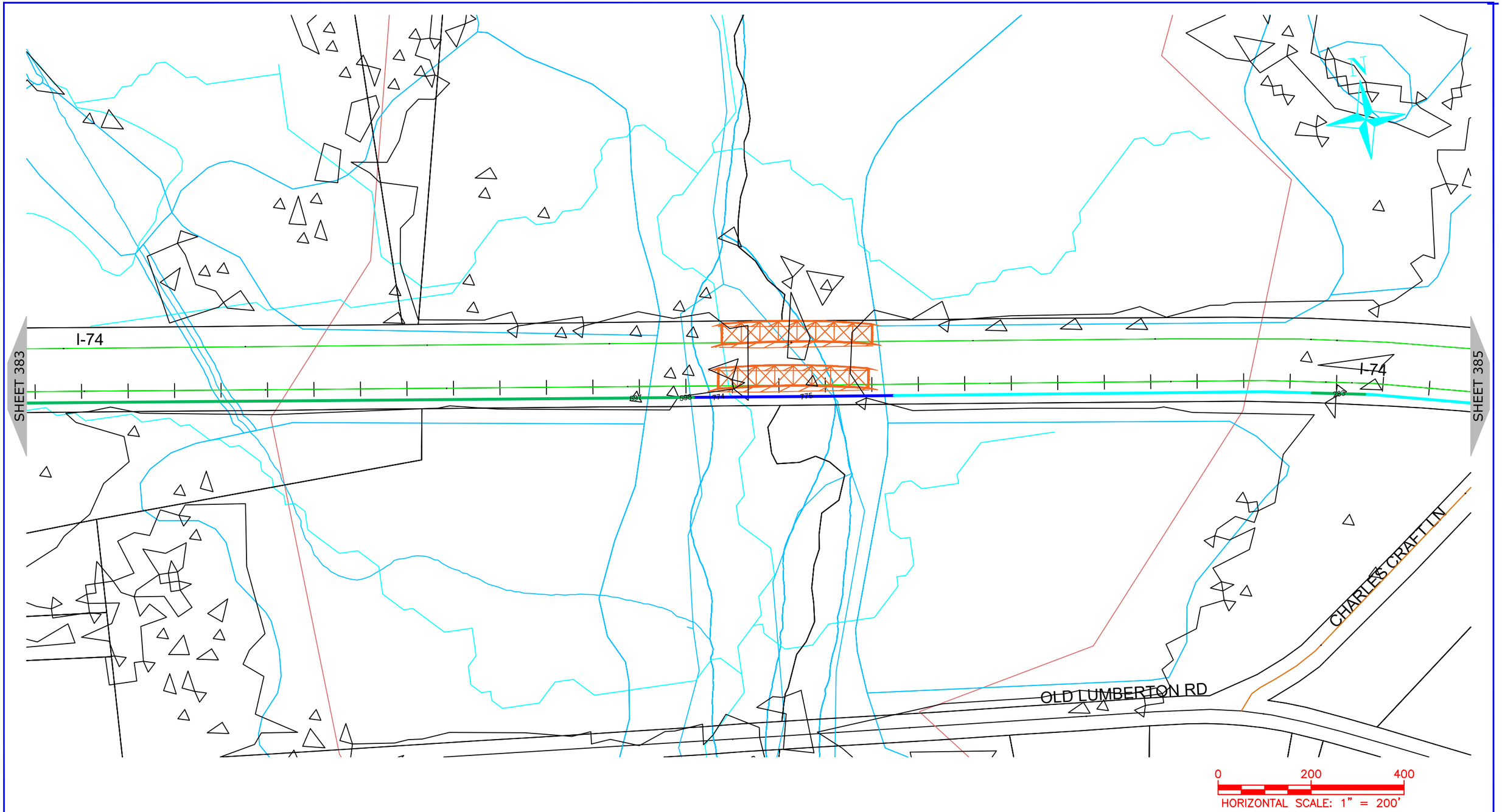
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 383

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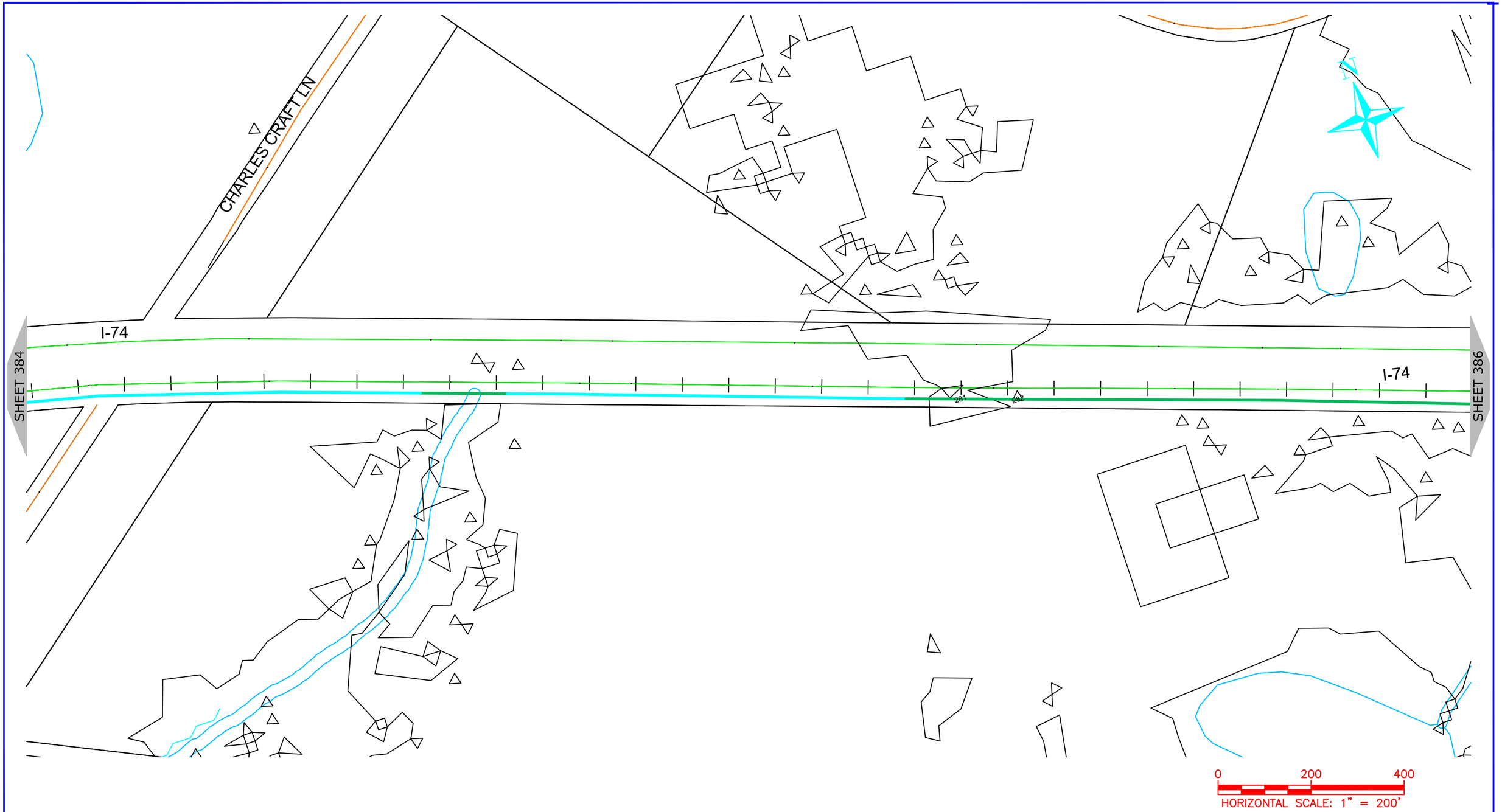
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 384

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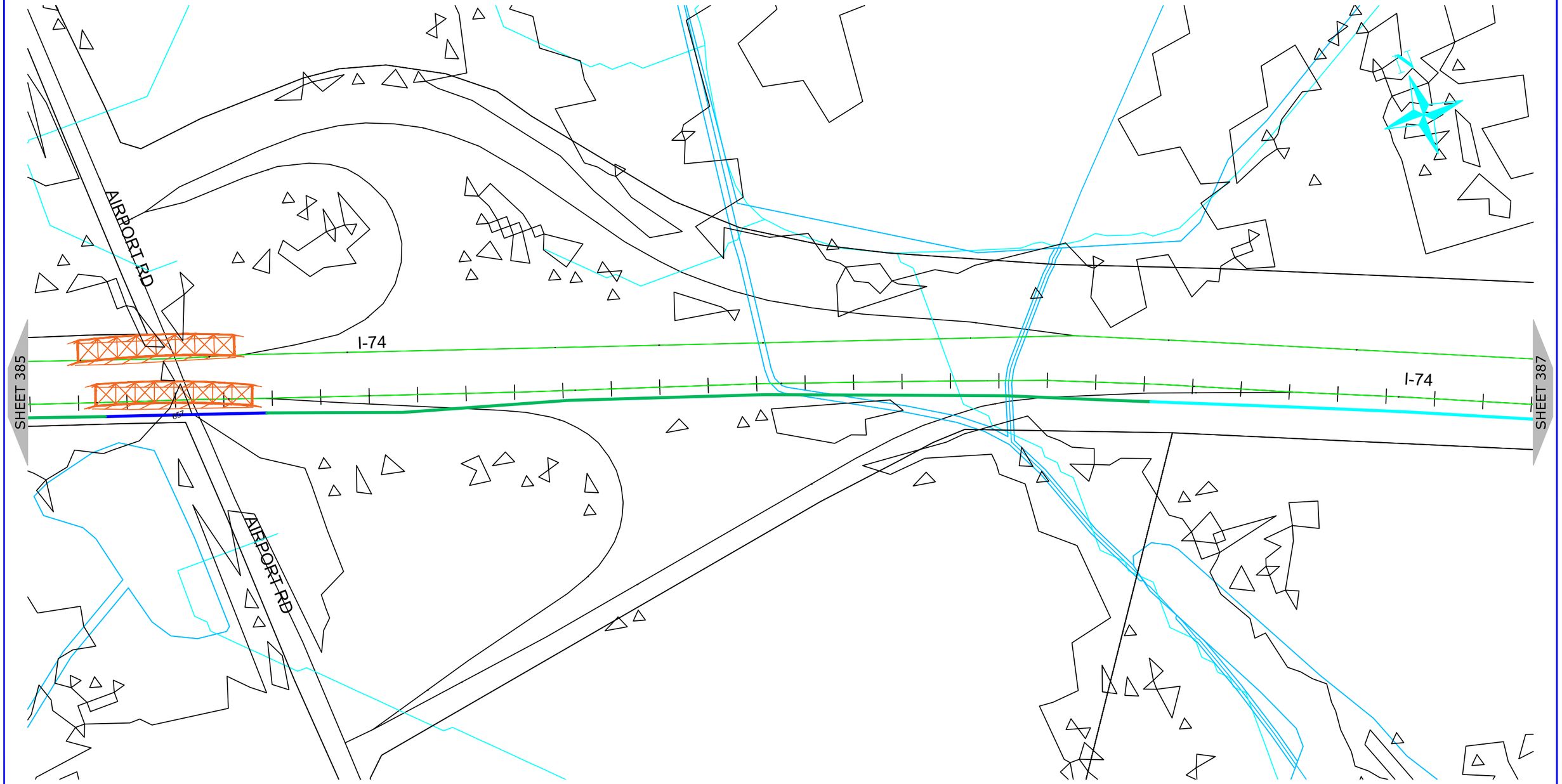
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 385

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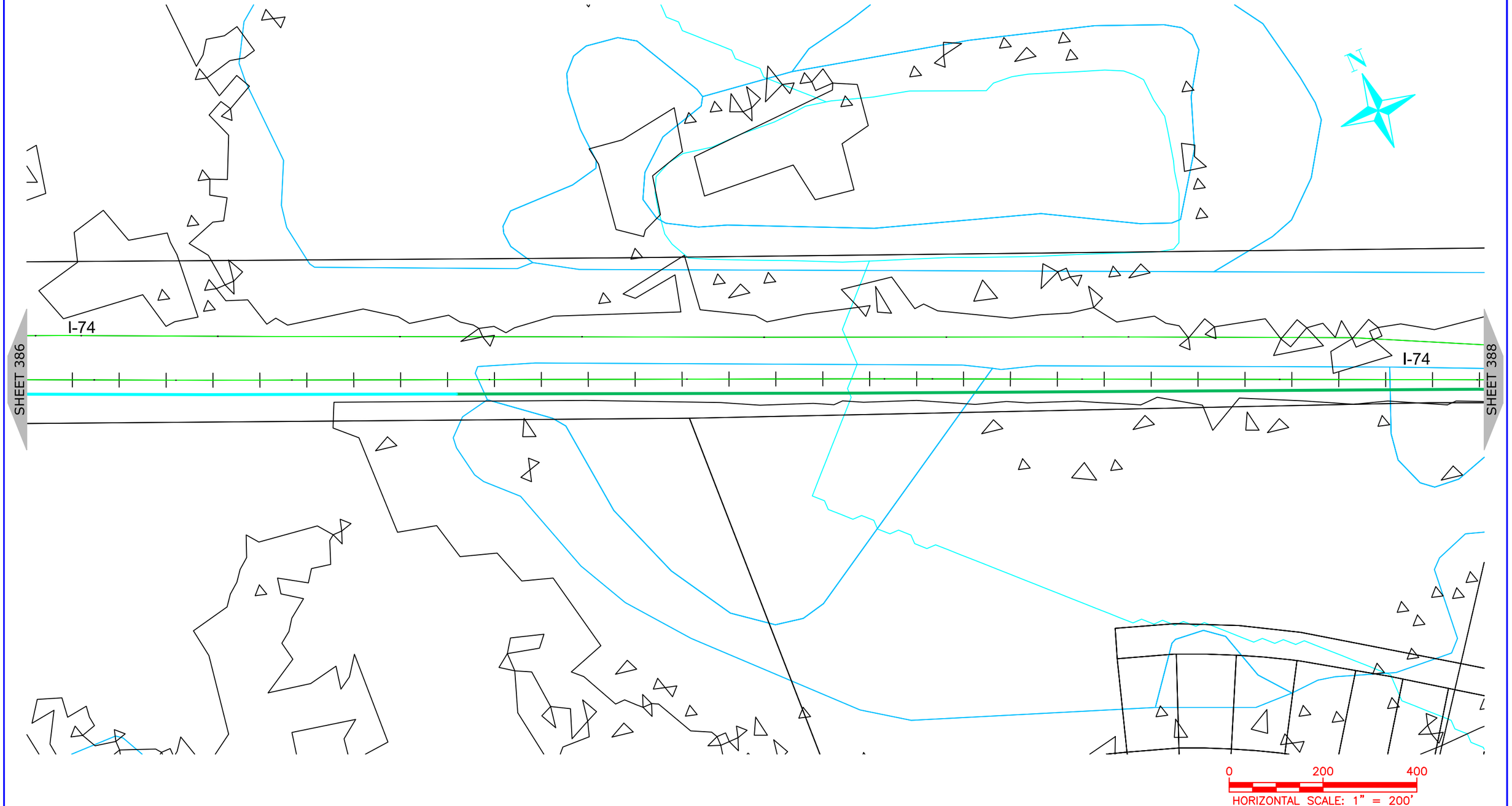
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
386

SHEET:
386

Submitted 12/16/2021



ONUG COMMUNICATIONS
3315 ATLANTIC AVE
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(919) 876-5455

REV	DATE	DESCRIPTION
		SCOTLAND

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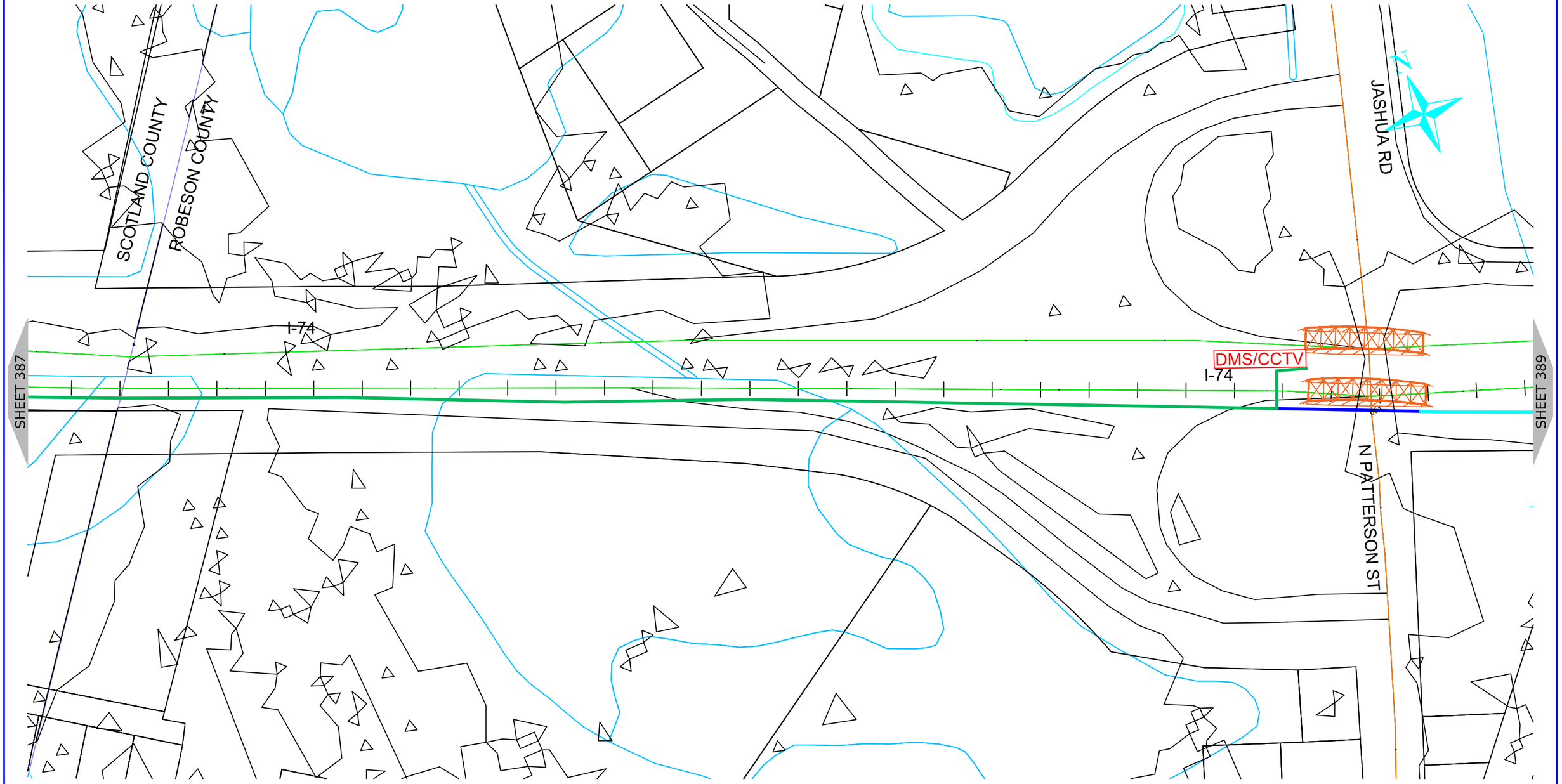
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US-74

SHEET NAME: 387

SHEET: 387

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REV	DATE	DESCRIPTION
		SCOTLAND
		ROBESON

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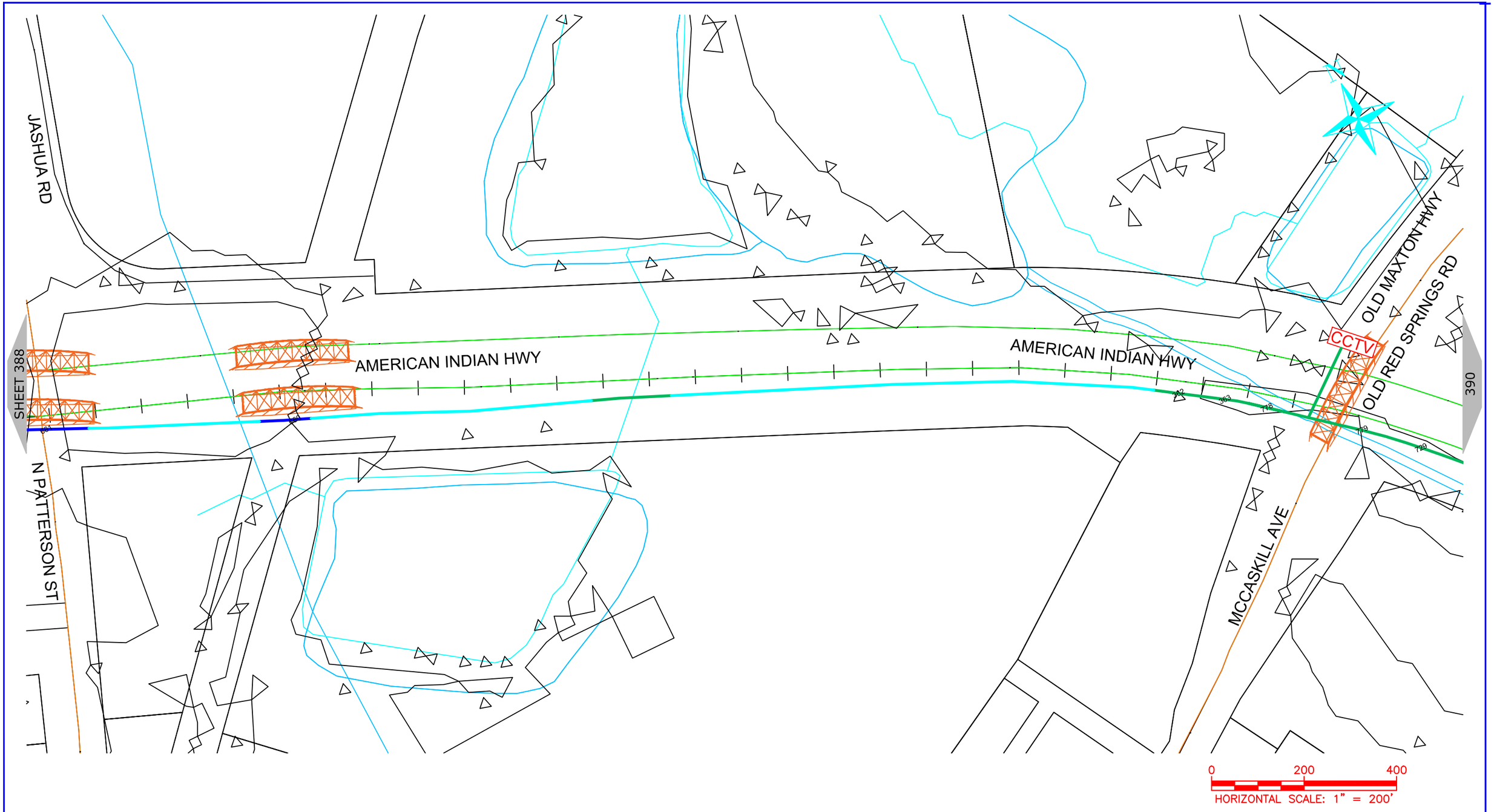
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US-74

SHEET NAME:
388

SHEET:
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REV	DATE	DESCRIPTION
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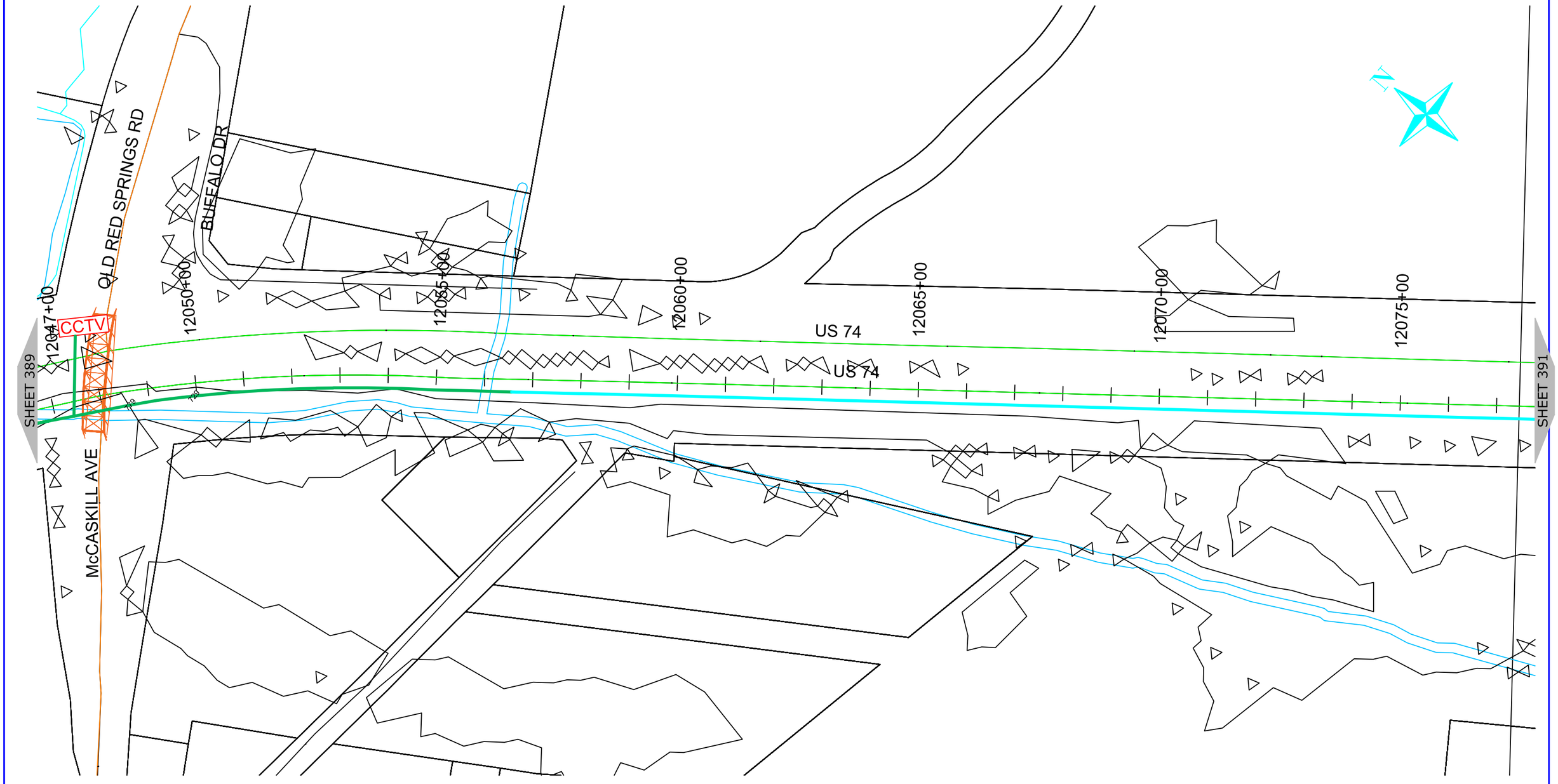
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PROJECT NAME:
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SHEET NAME:
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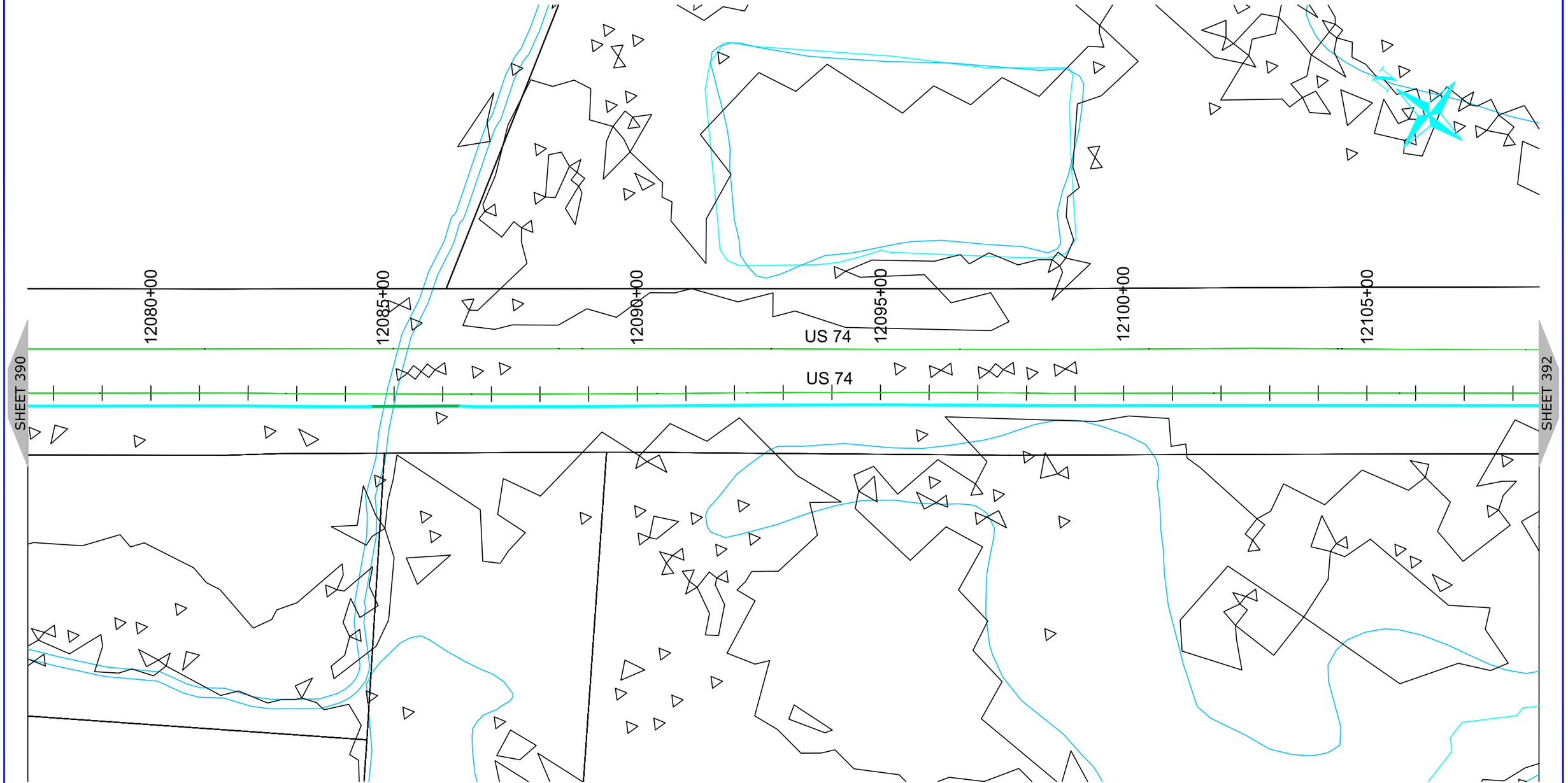
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PROJECT NAME: US 74

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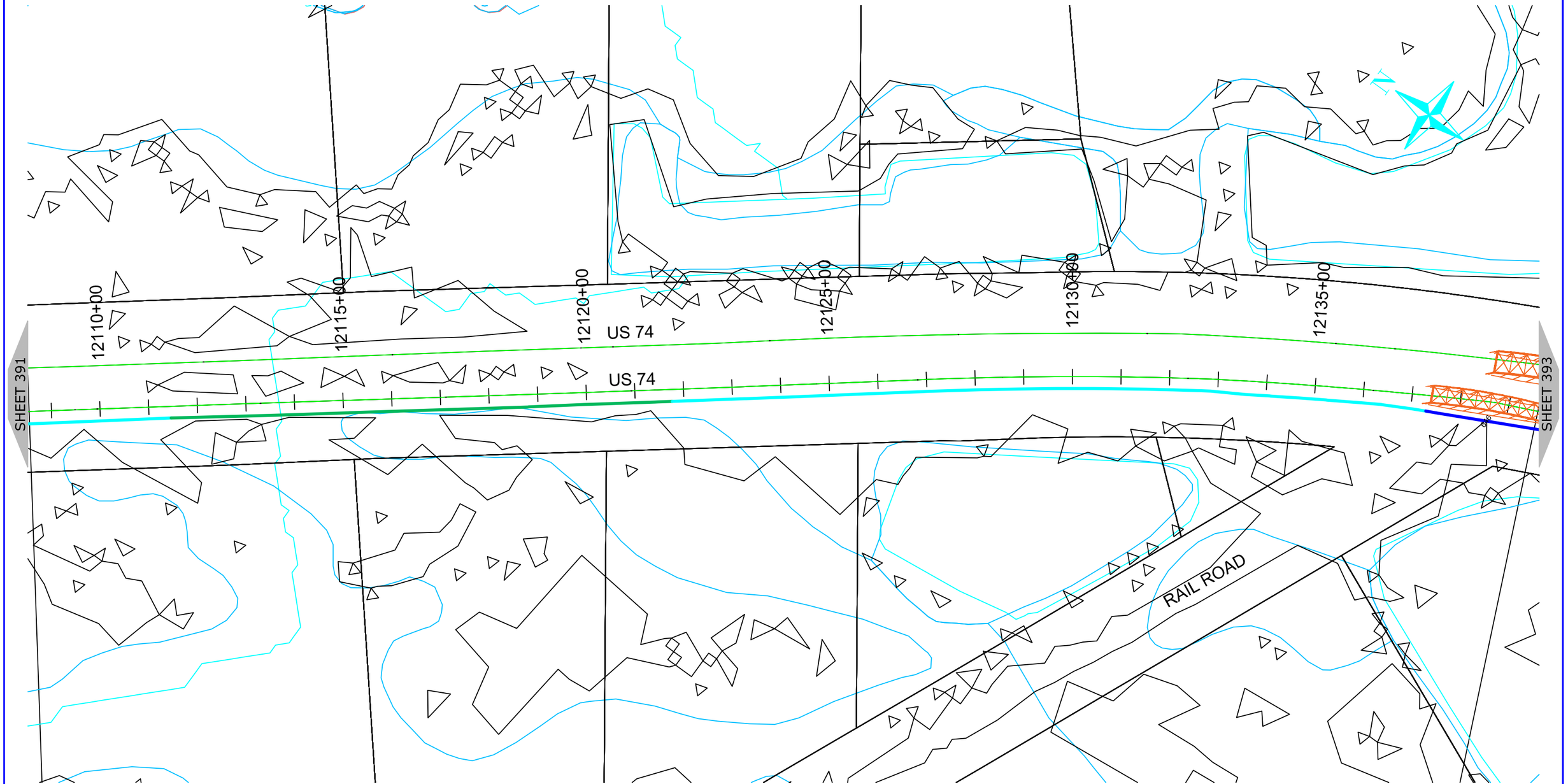
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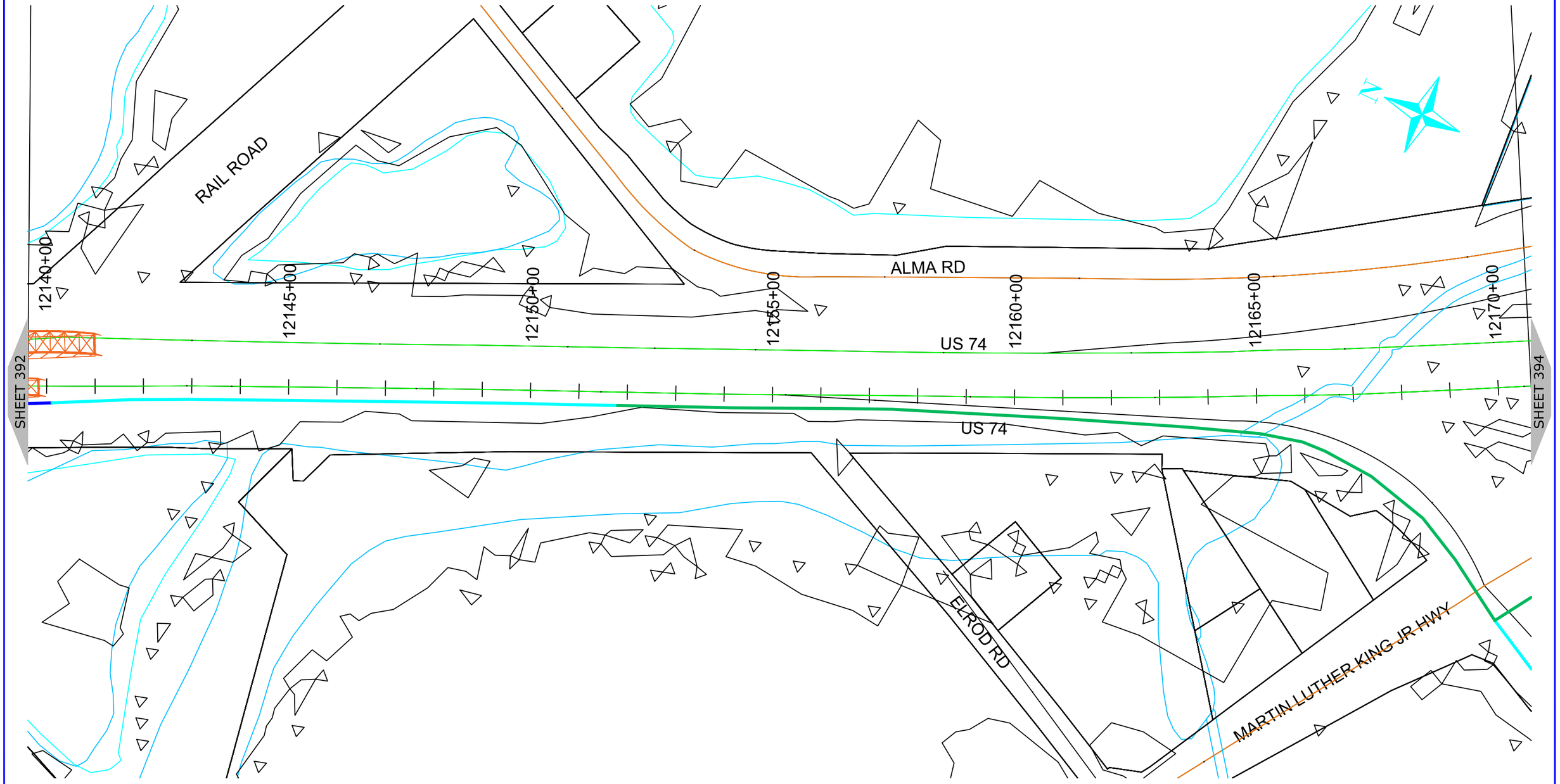
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 392

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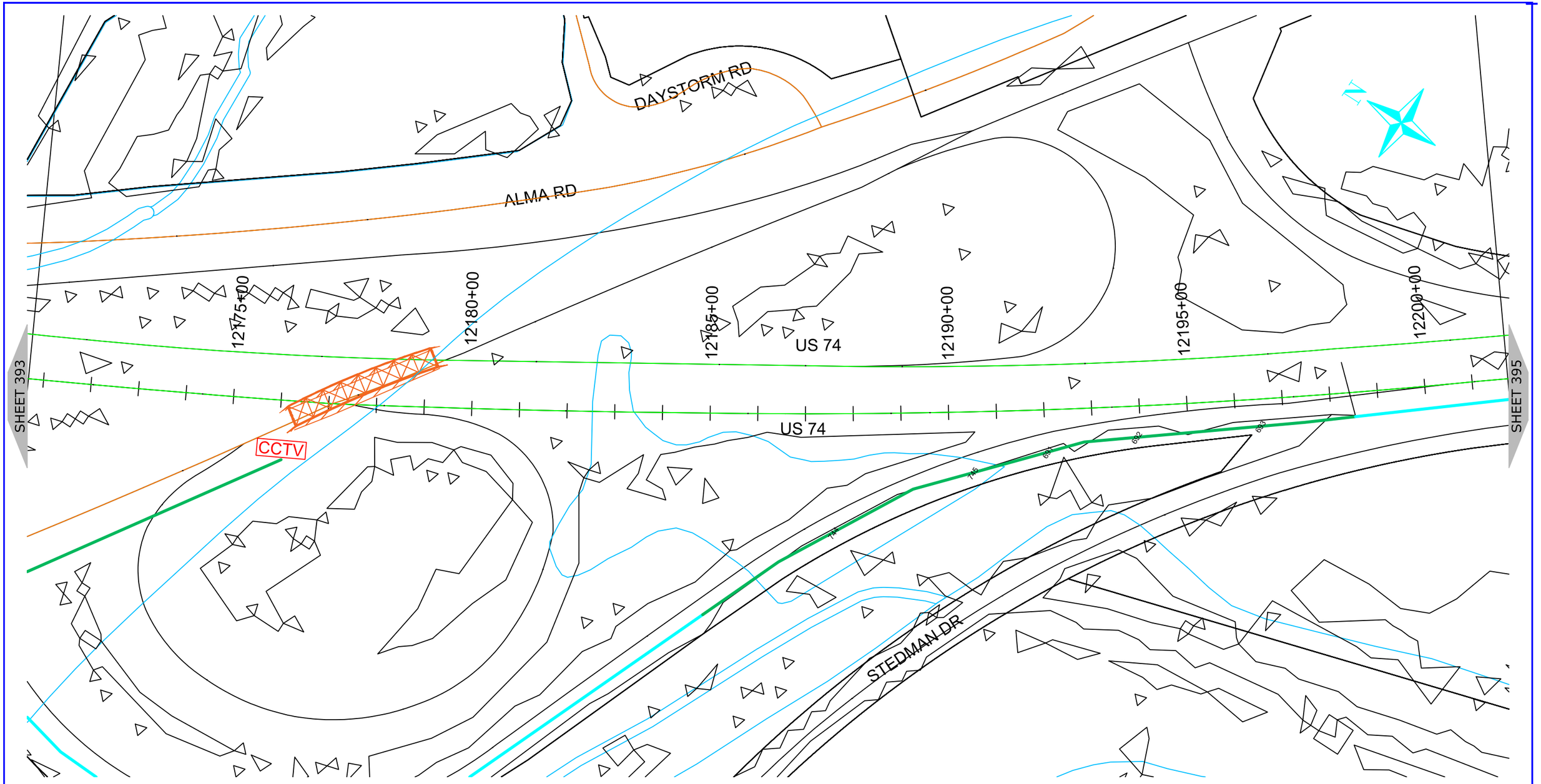
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PROJECT NAME: US 74

SHEET NAME: 393

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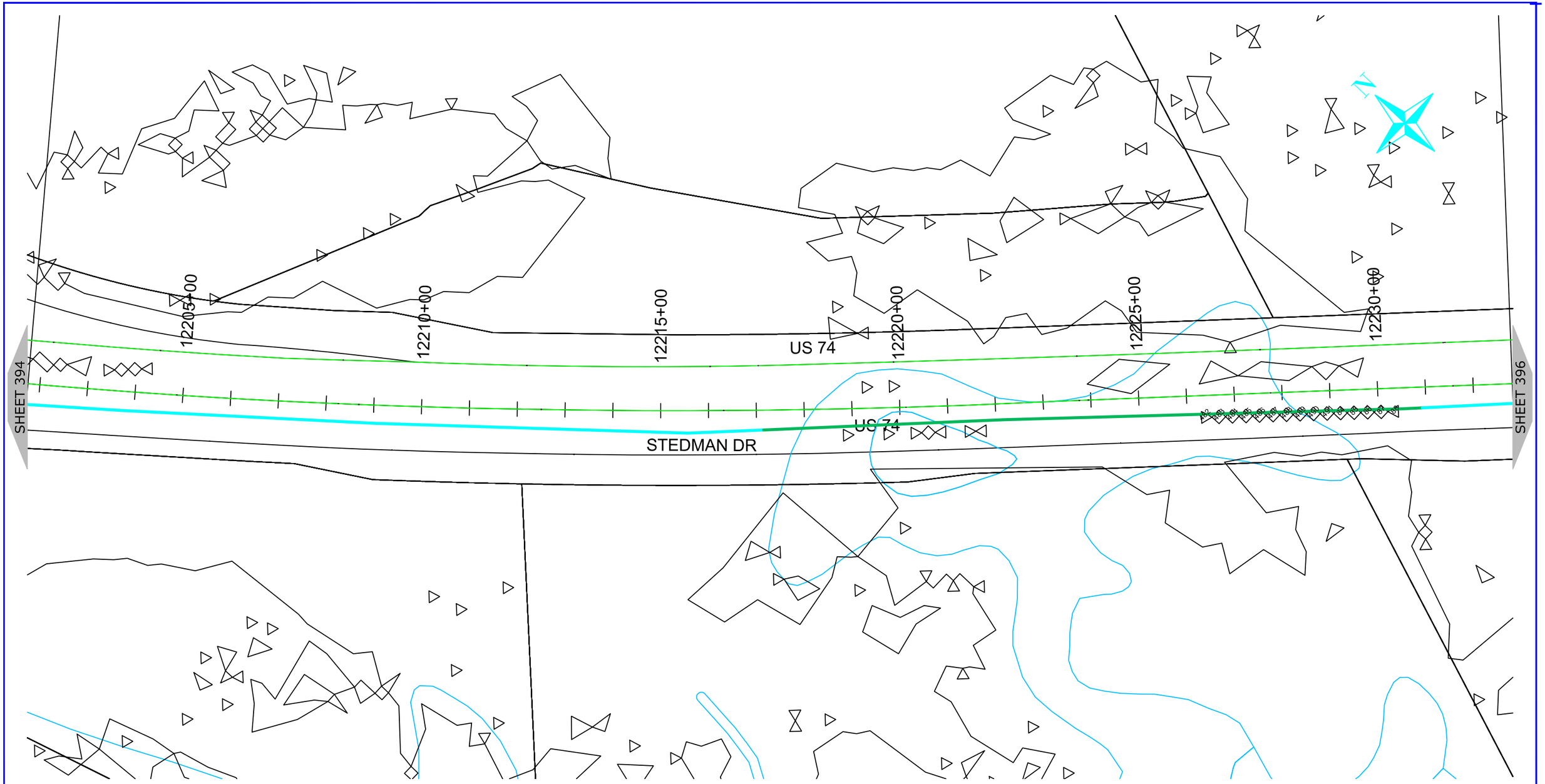
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PROJECT NAME: US 74

SHEET NAME: 394

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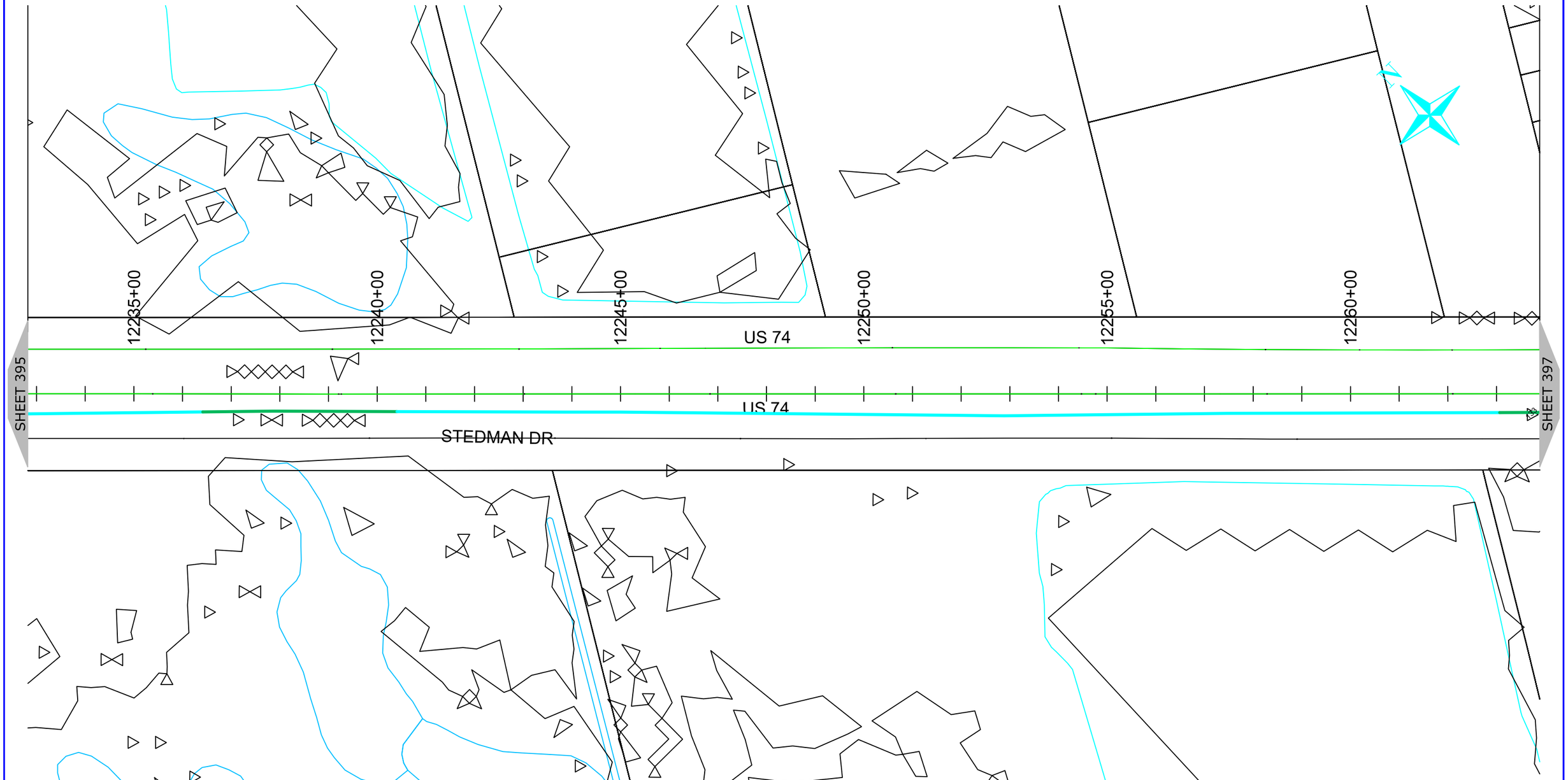
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PROJECT NAME: US 74

SHEET NAME: 395

SHEET: 395

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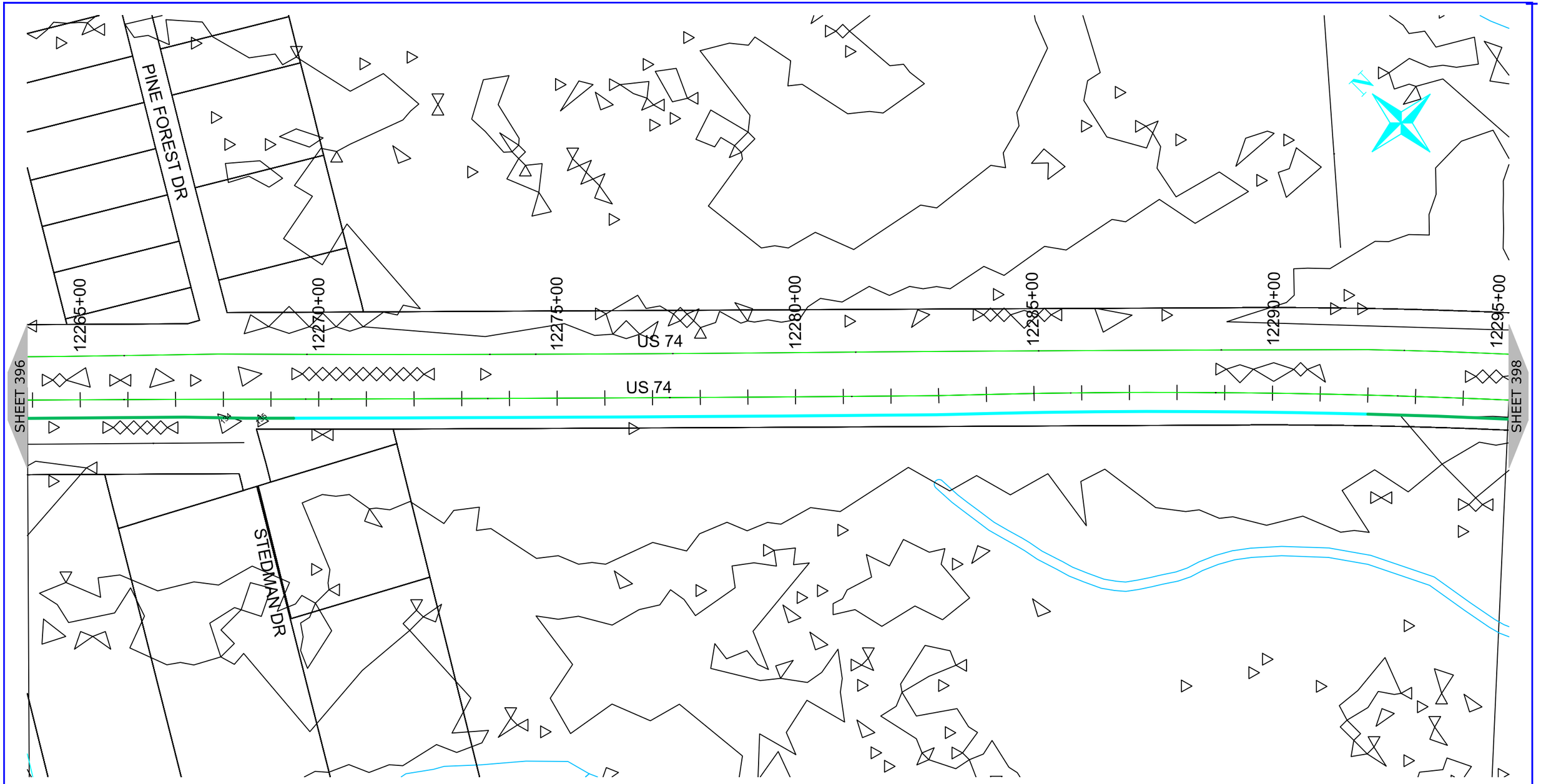
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APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 396

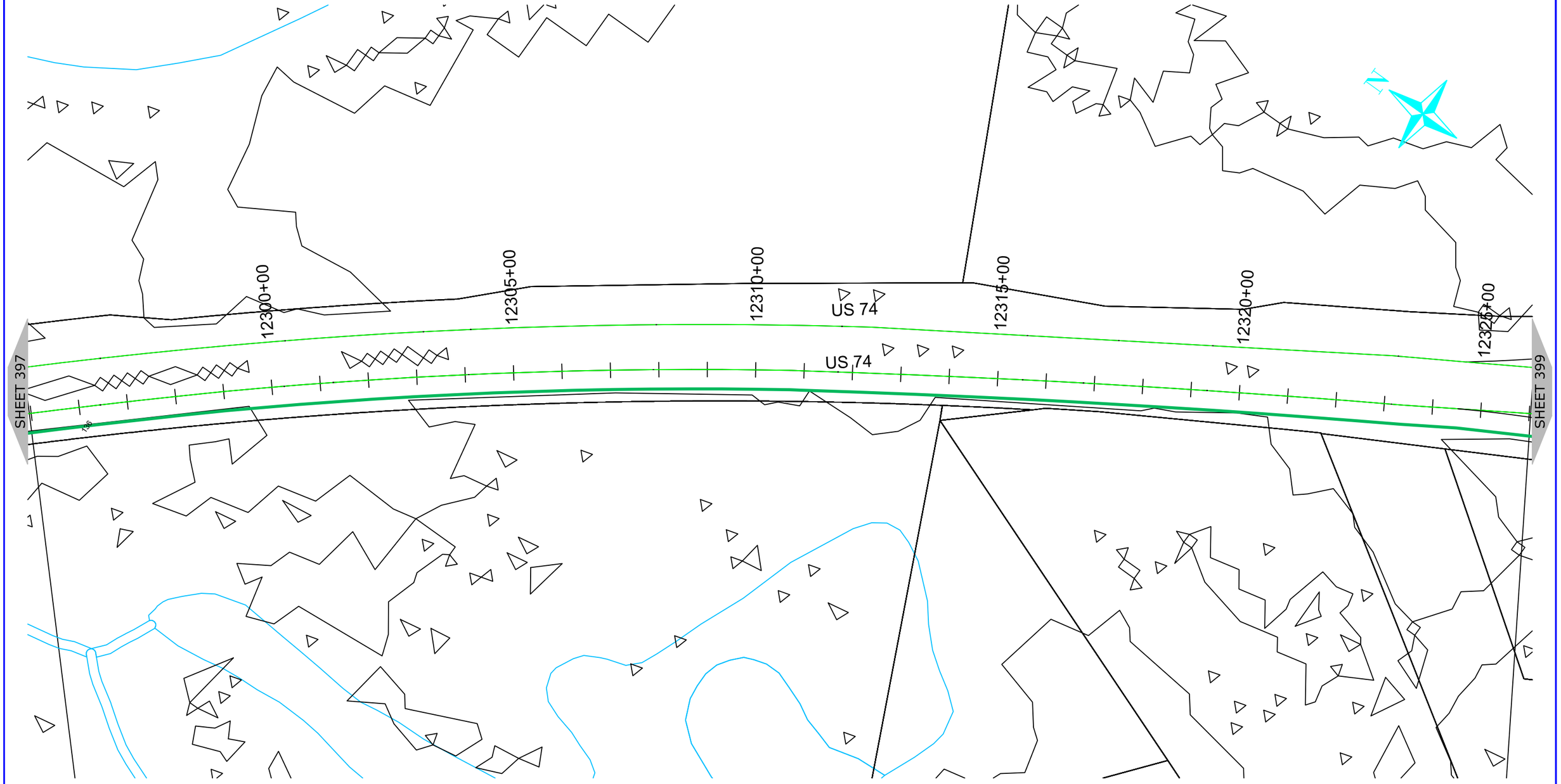
SHEET: 396

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ONUG COMMUNICATIONS 3315 ATLANTIC AVE RALEIGH, NC 27604 (919) 876-5455	REV	DATE	DESCRIPTION ROBESON	OWNER: STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	BEFORE YOU DIG STOP CALL 1-800-632-4949 N.C. ONE-CALL CENTER IT'S THE LAW	JOB NO:DOTNCRAH20210512-001 DATE: 12-05-2021 SCALE: 1:200 DESIGNED BY: RAMTECH DRAWN BY: RAMTECH CHECKED BY: --- APPROVED BY: ---	PROJECT NAME: US 74 SHEET NAME: 397 SHEET: 397

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3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
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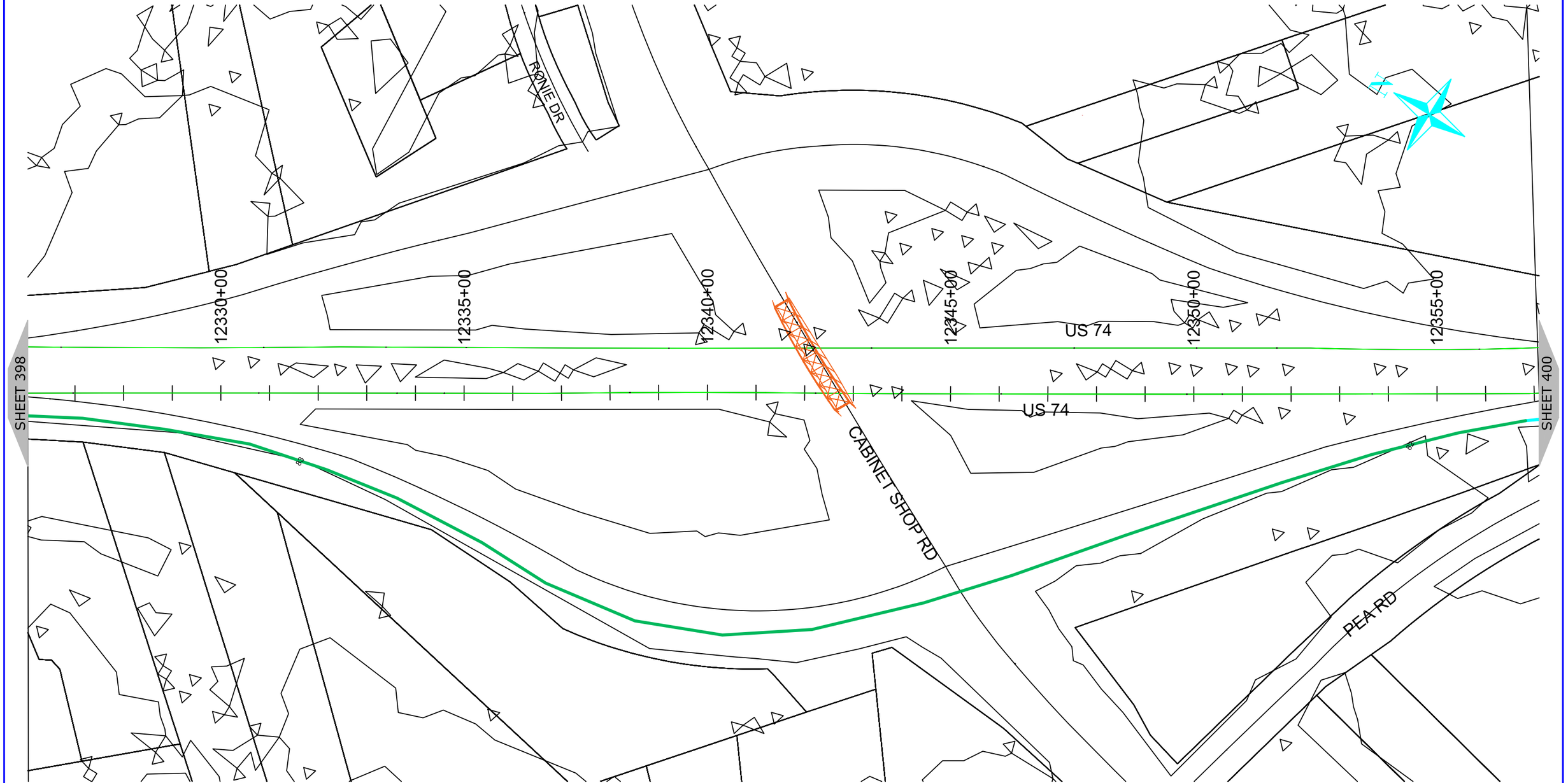
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 398

SHEET: 398

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3315 ATLANTIC AVE
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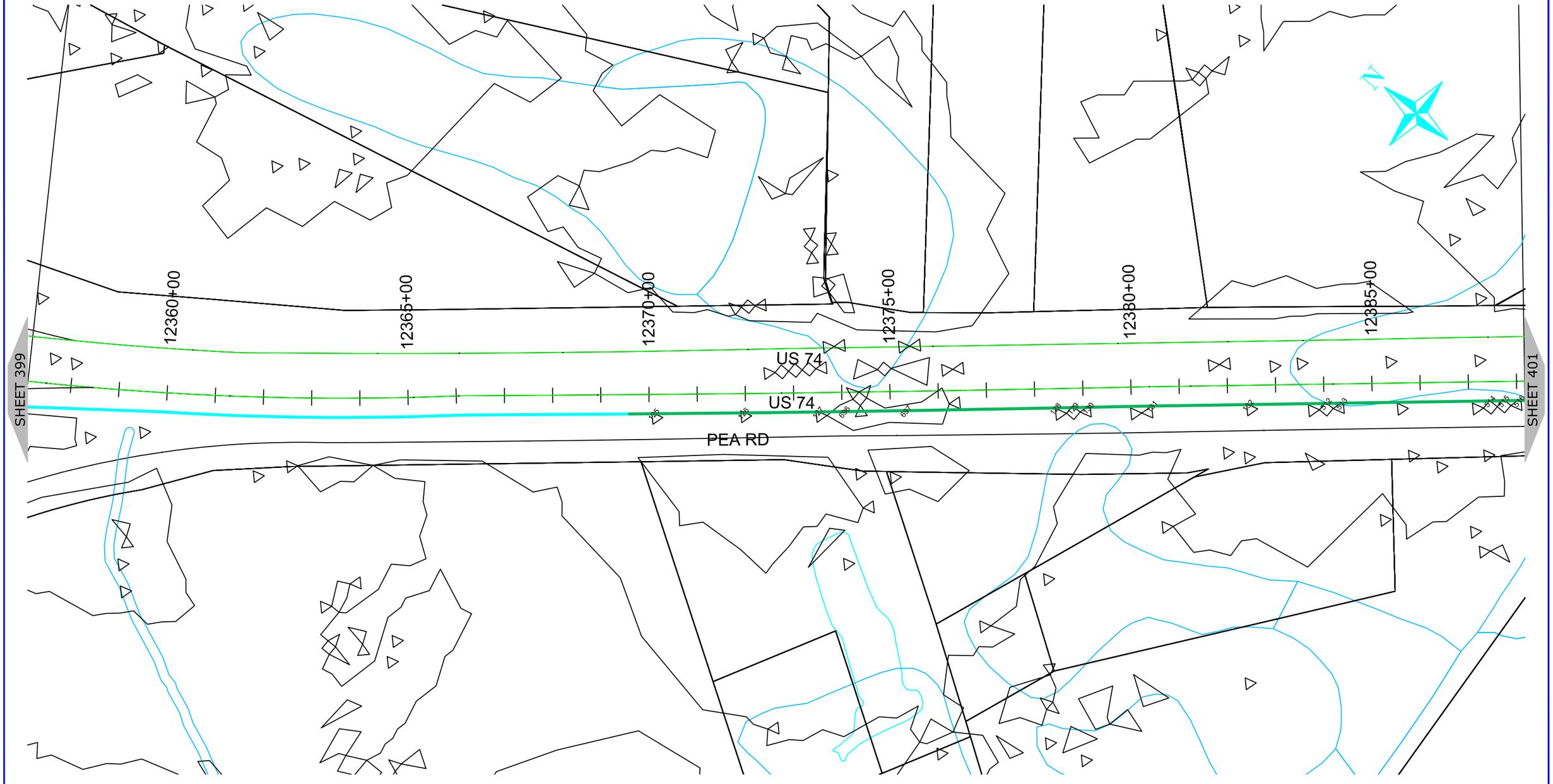
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 399

SHEET: 399

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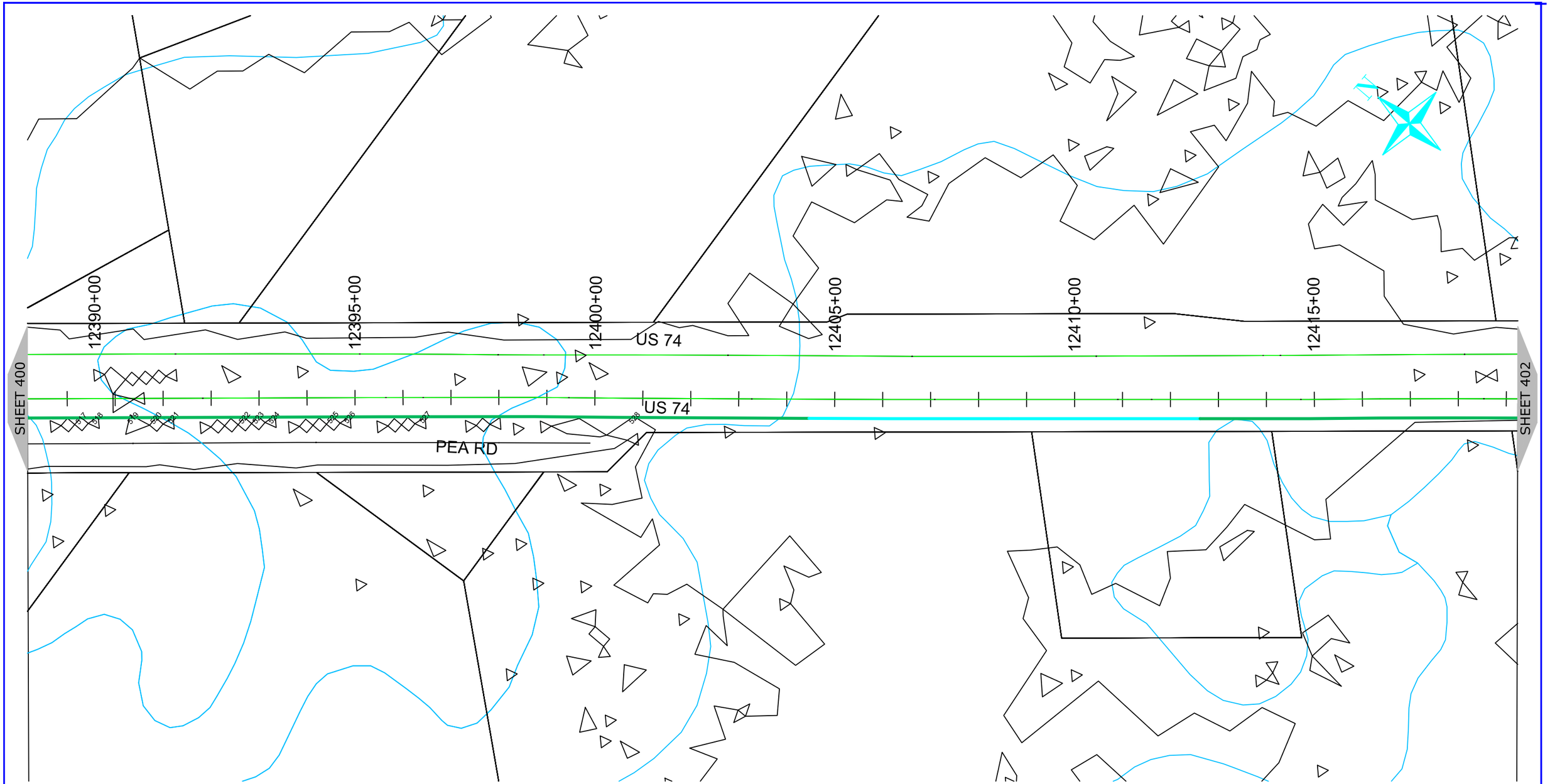
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PROJECT NAME: US 74

SHEET NAME: 400

SHEET: 400

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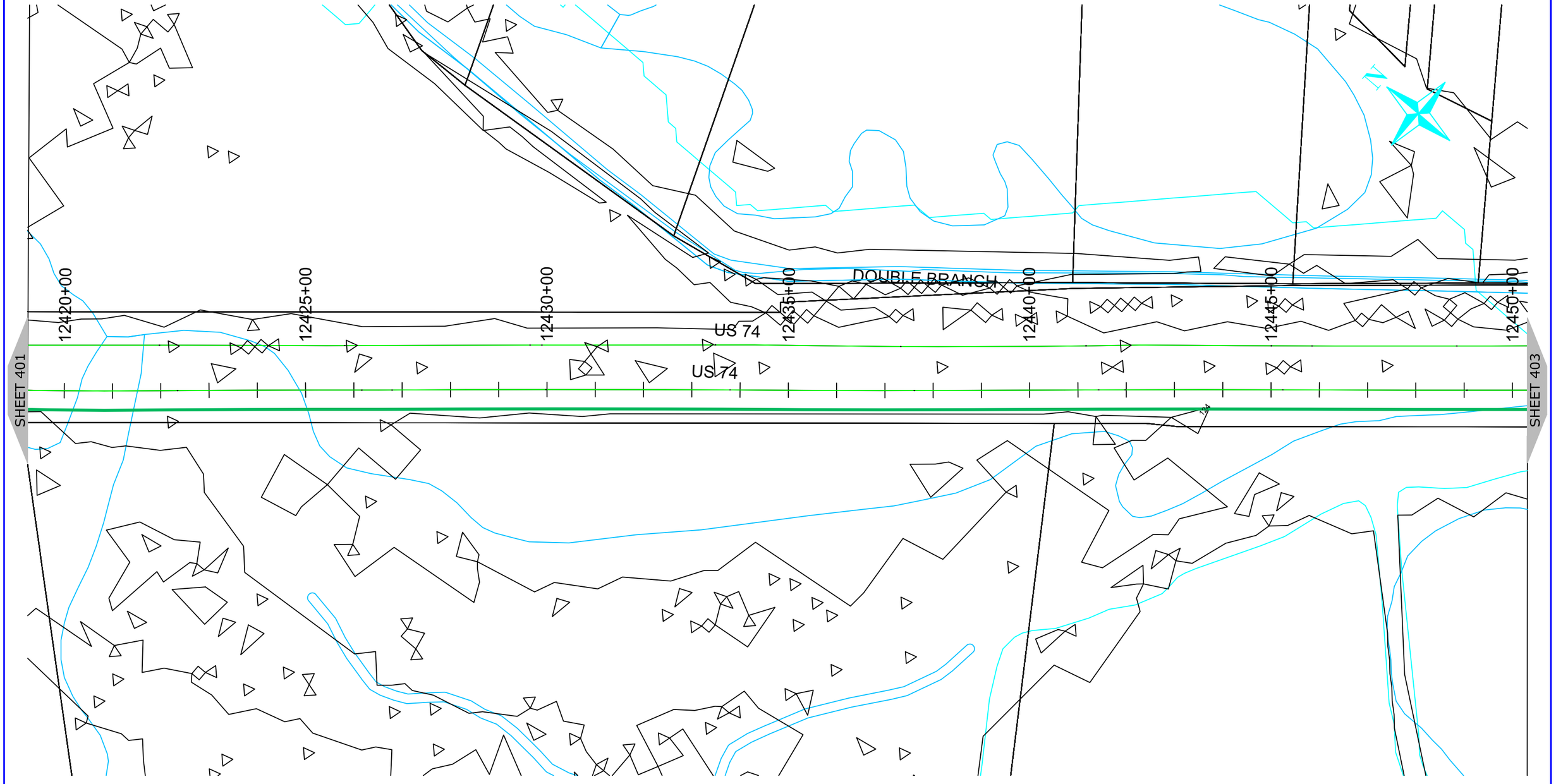
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PROJECT NAME: US 74

SHEET NAME: 401

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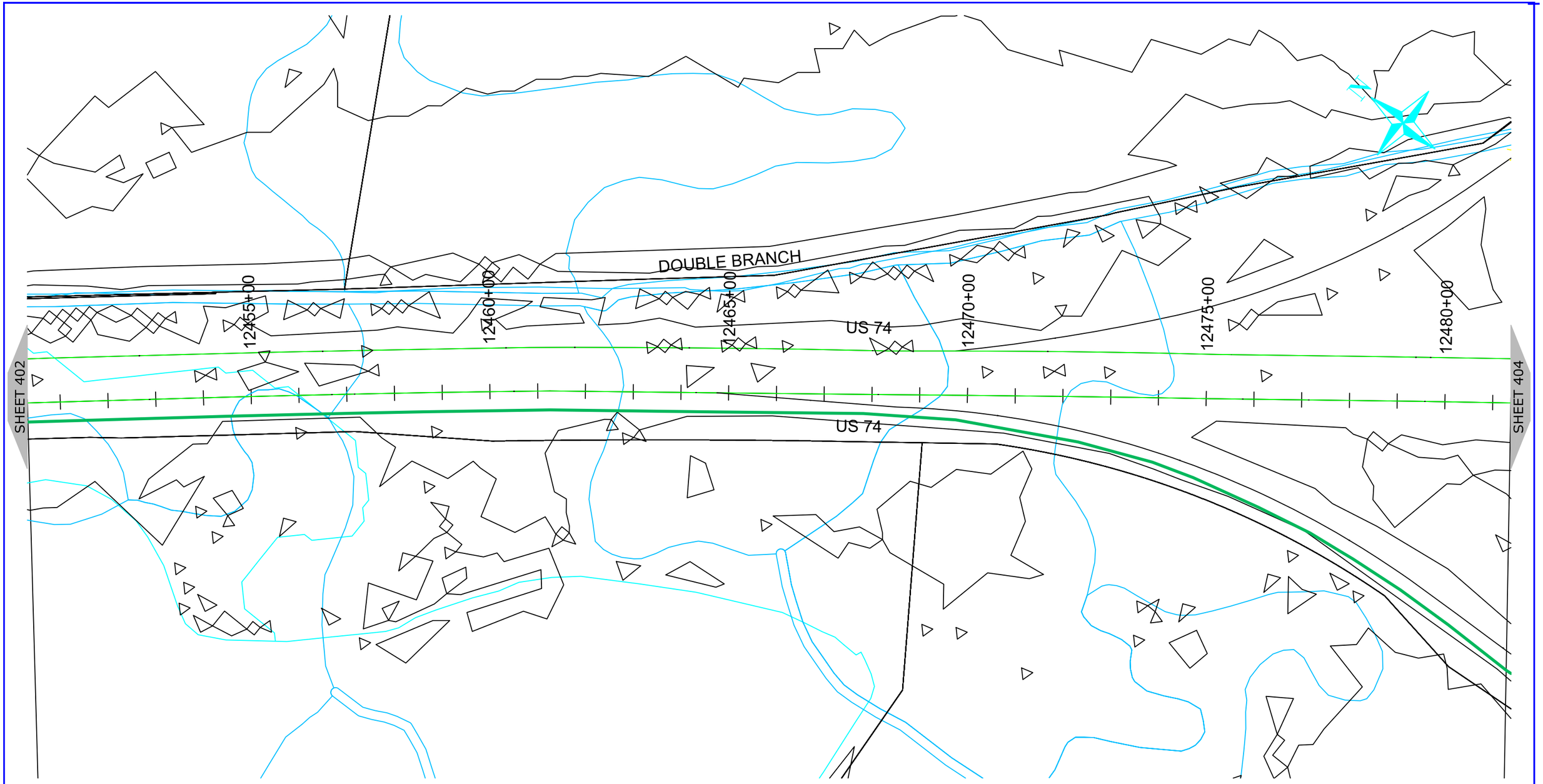
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PROJECT NAME: US 74

SHEET NAME: 402

SHEET: 402

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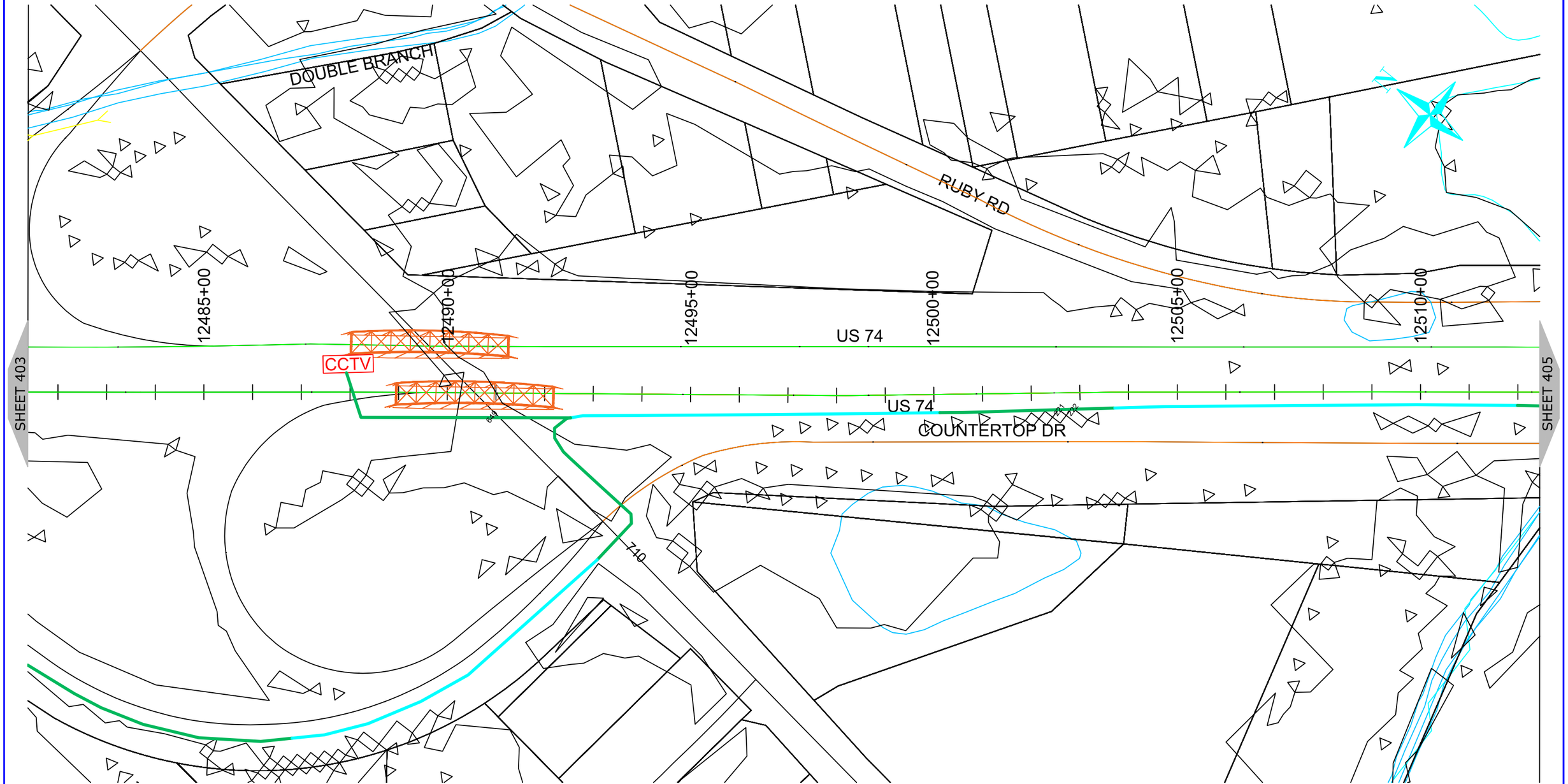
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 403

SHEET: 403

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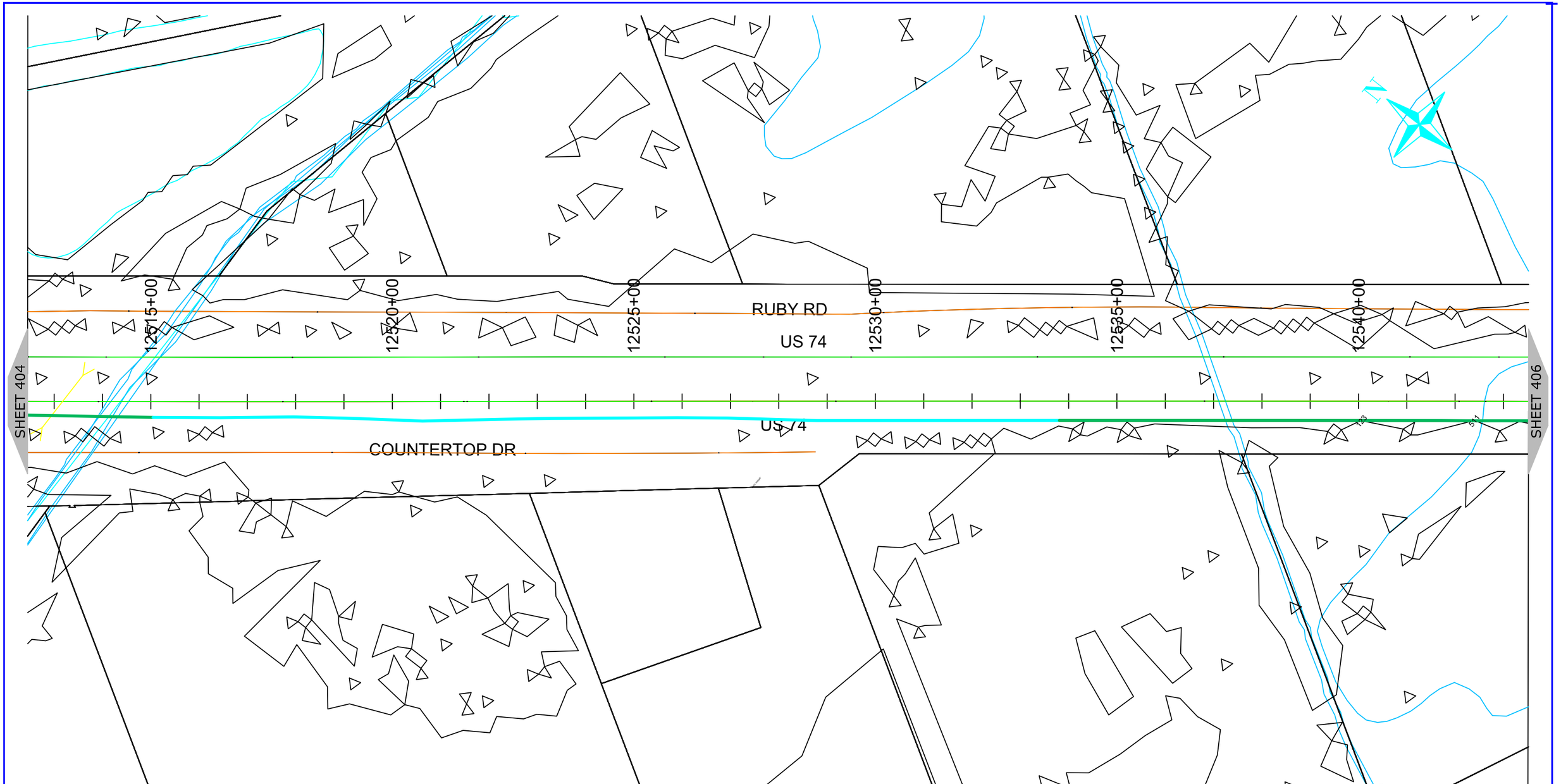
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 404

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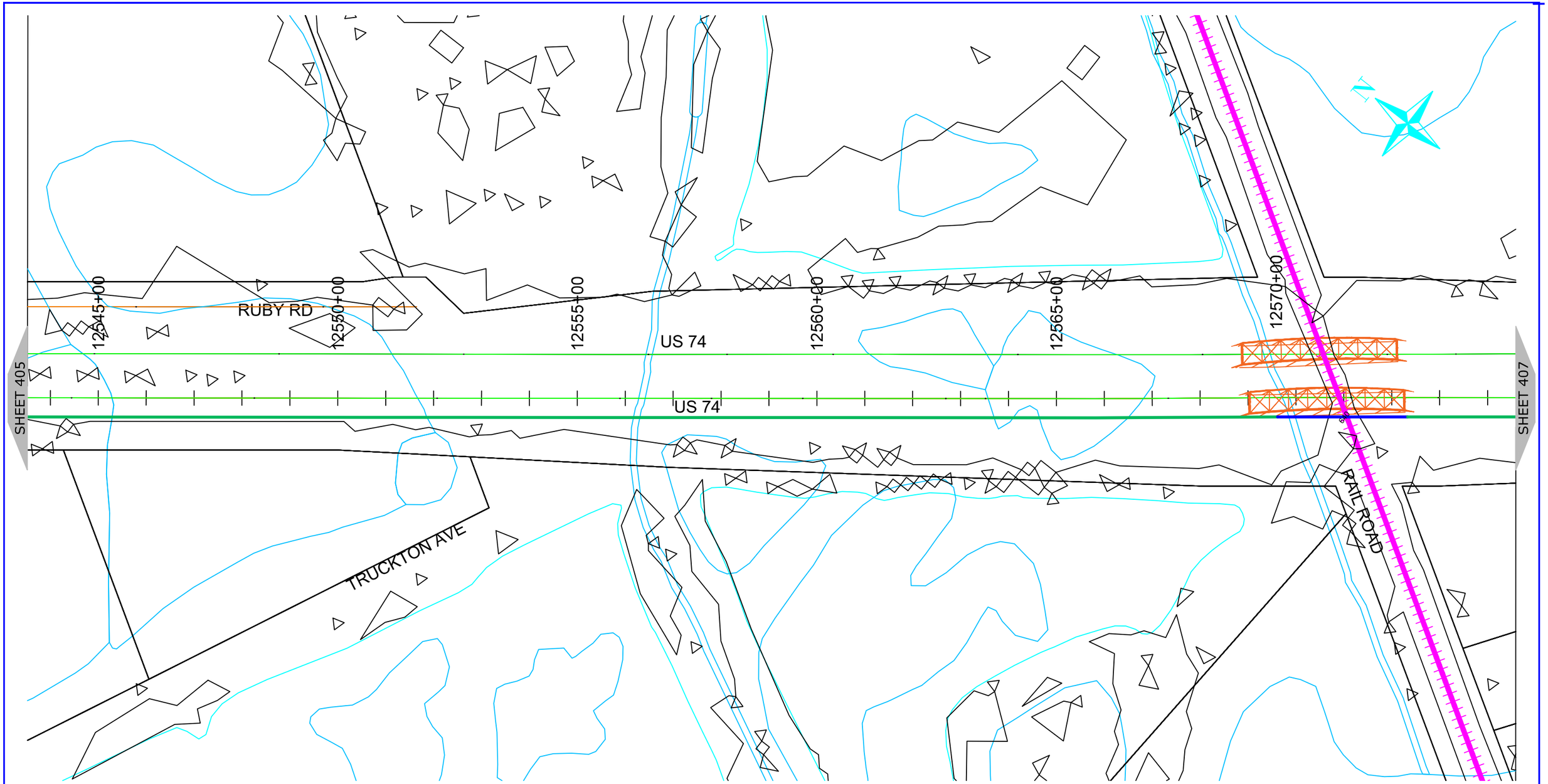
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PROJECT NAME: US 74

SHEET NAME: 405

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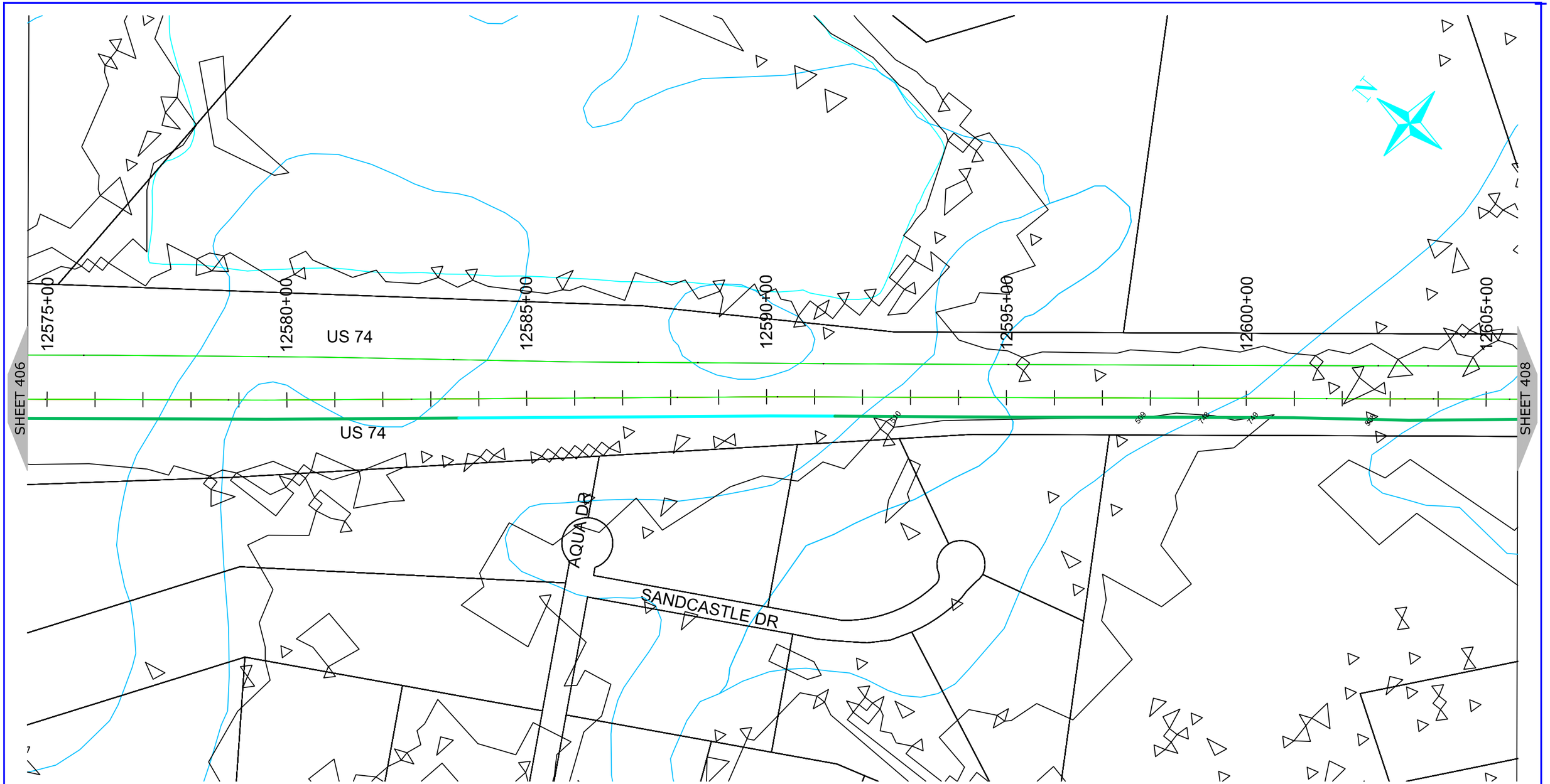
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 406

SHEET: 406

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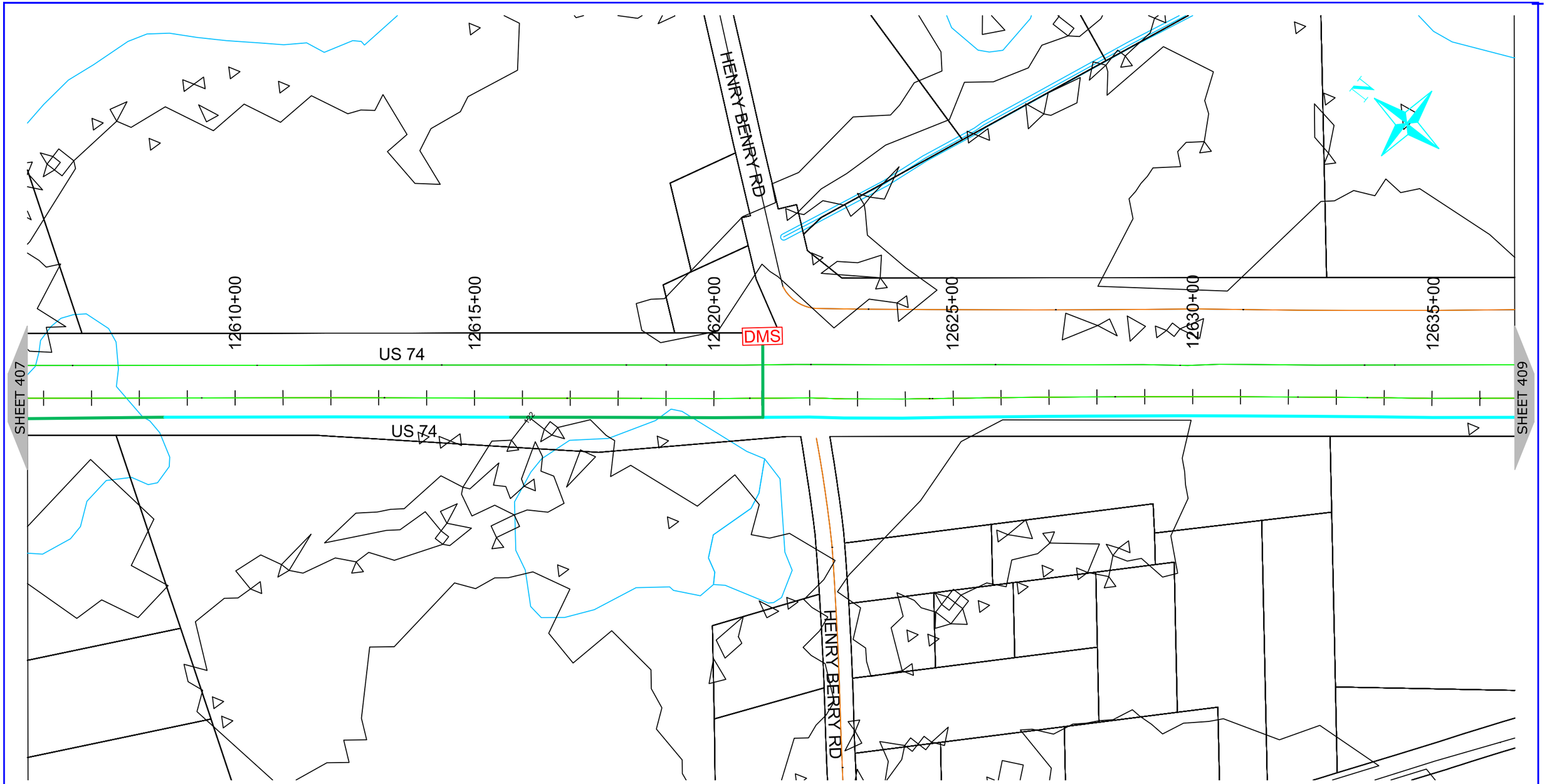
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 407

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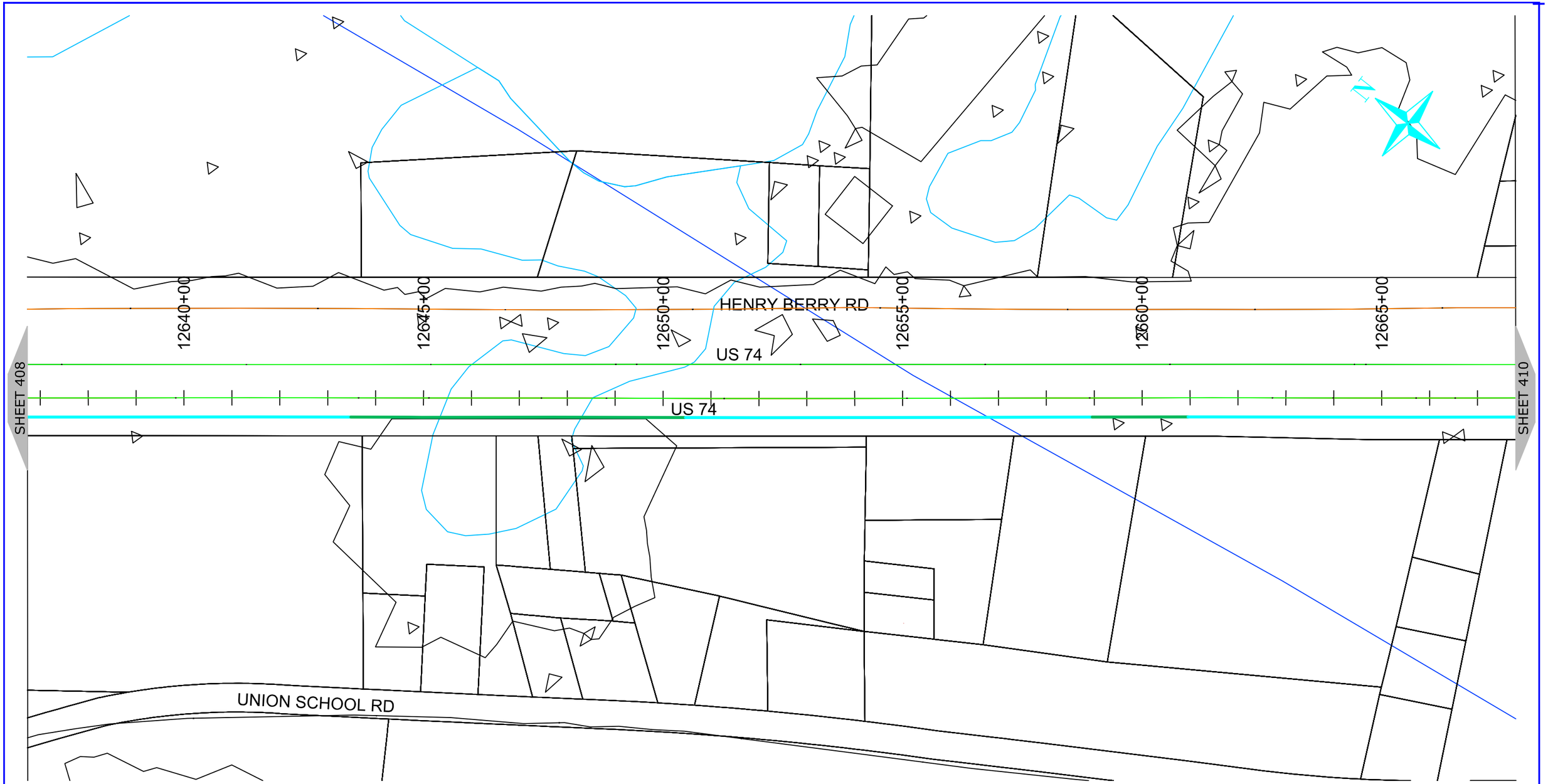
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PROJECT NAME:
US 74

SHEET NAME:
408

SHEET:
408

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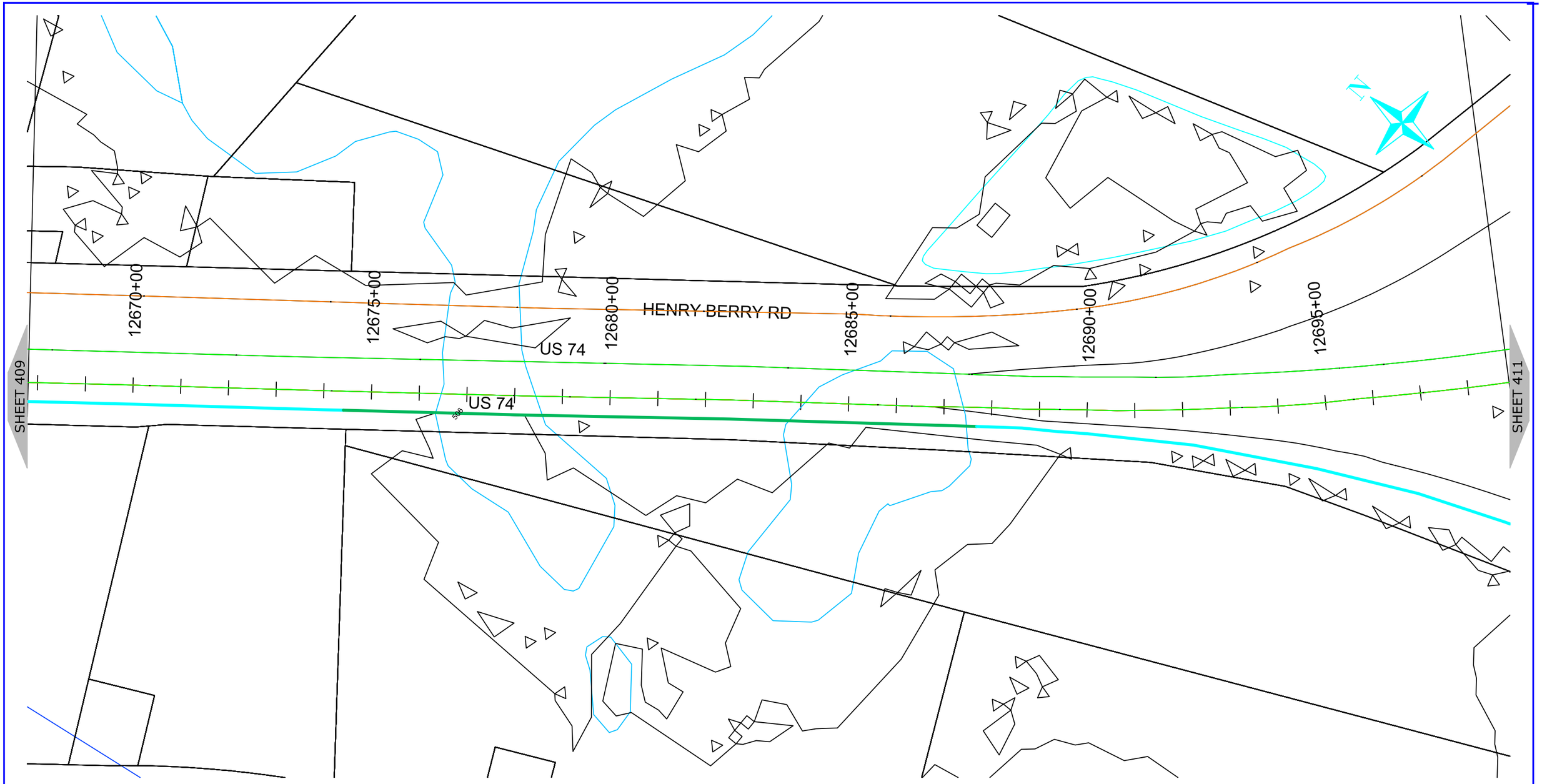
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 409

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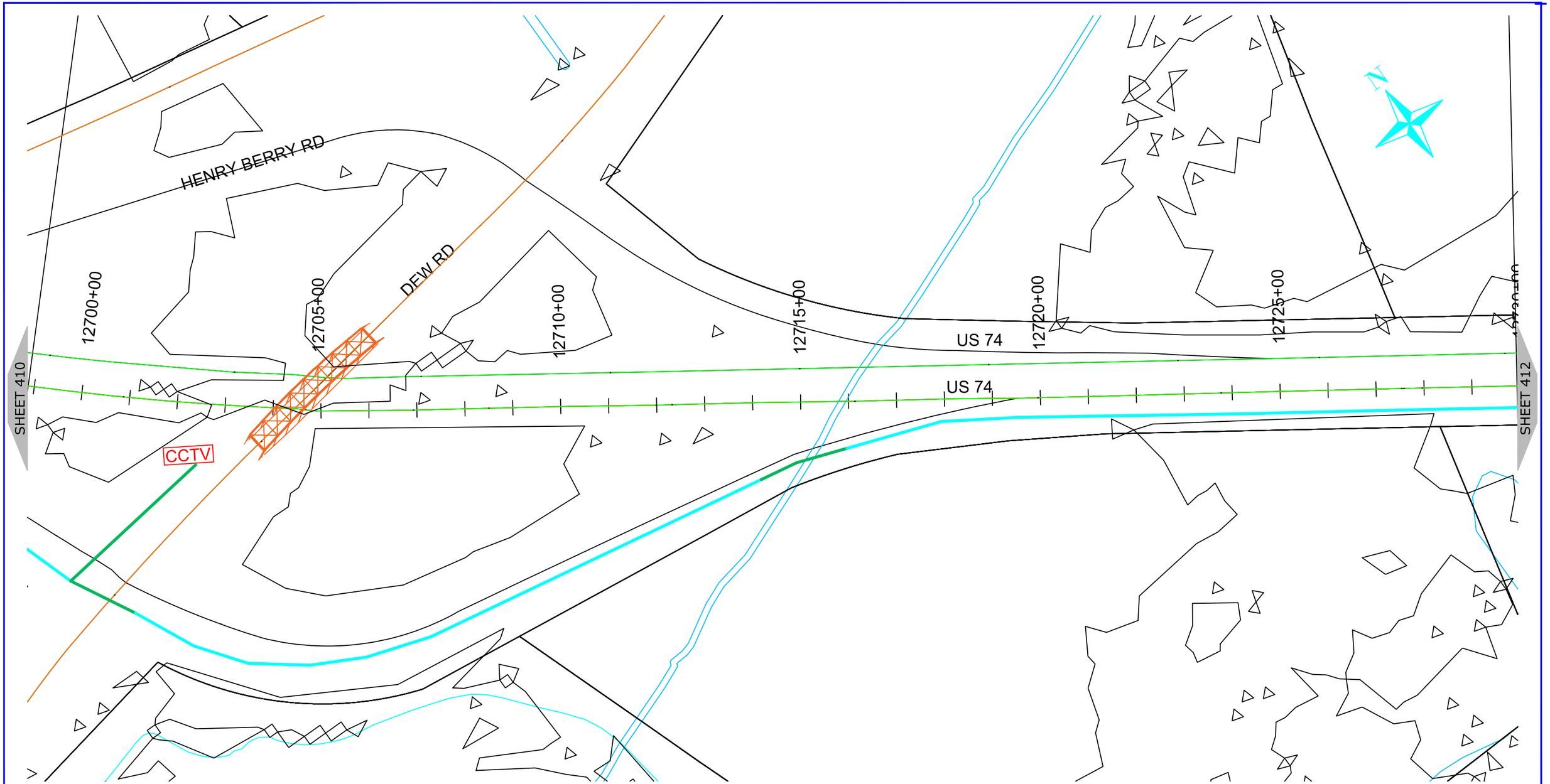
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 410

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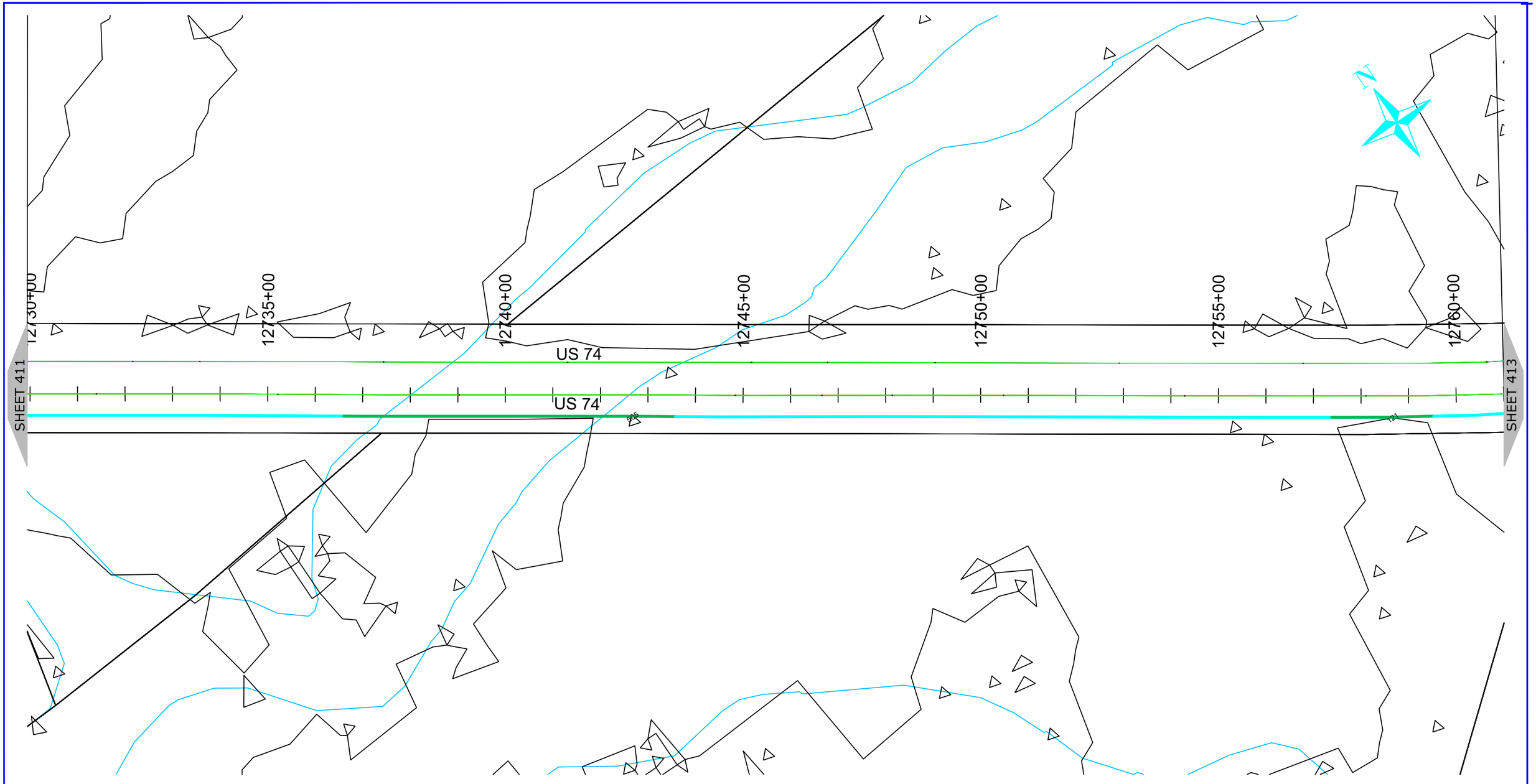
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 411

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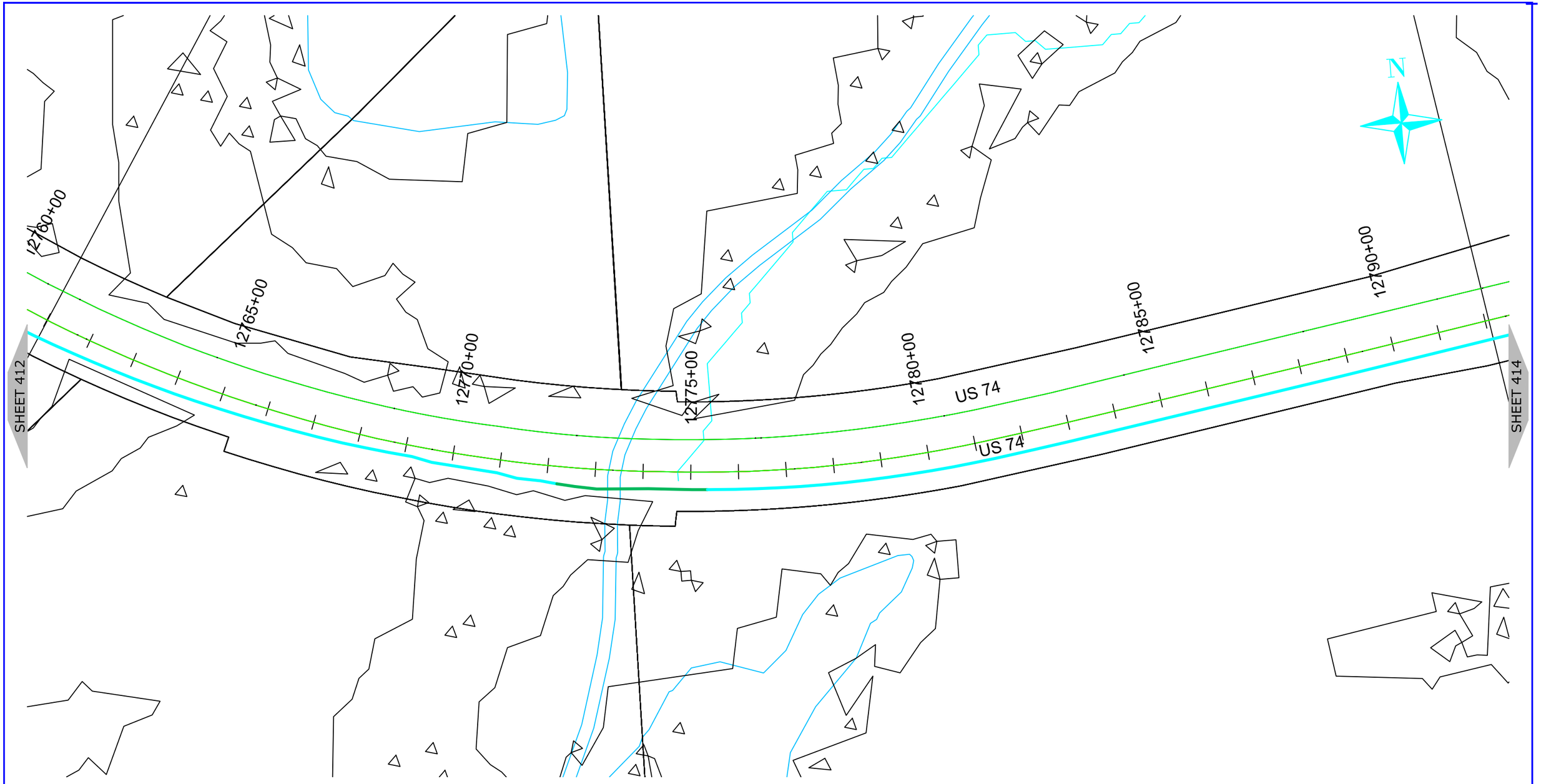
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DATE:	12-05-2021
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PROJECT NAME: US 74

SHEET NAME: 412

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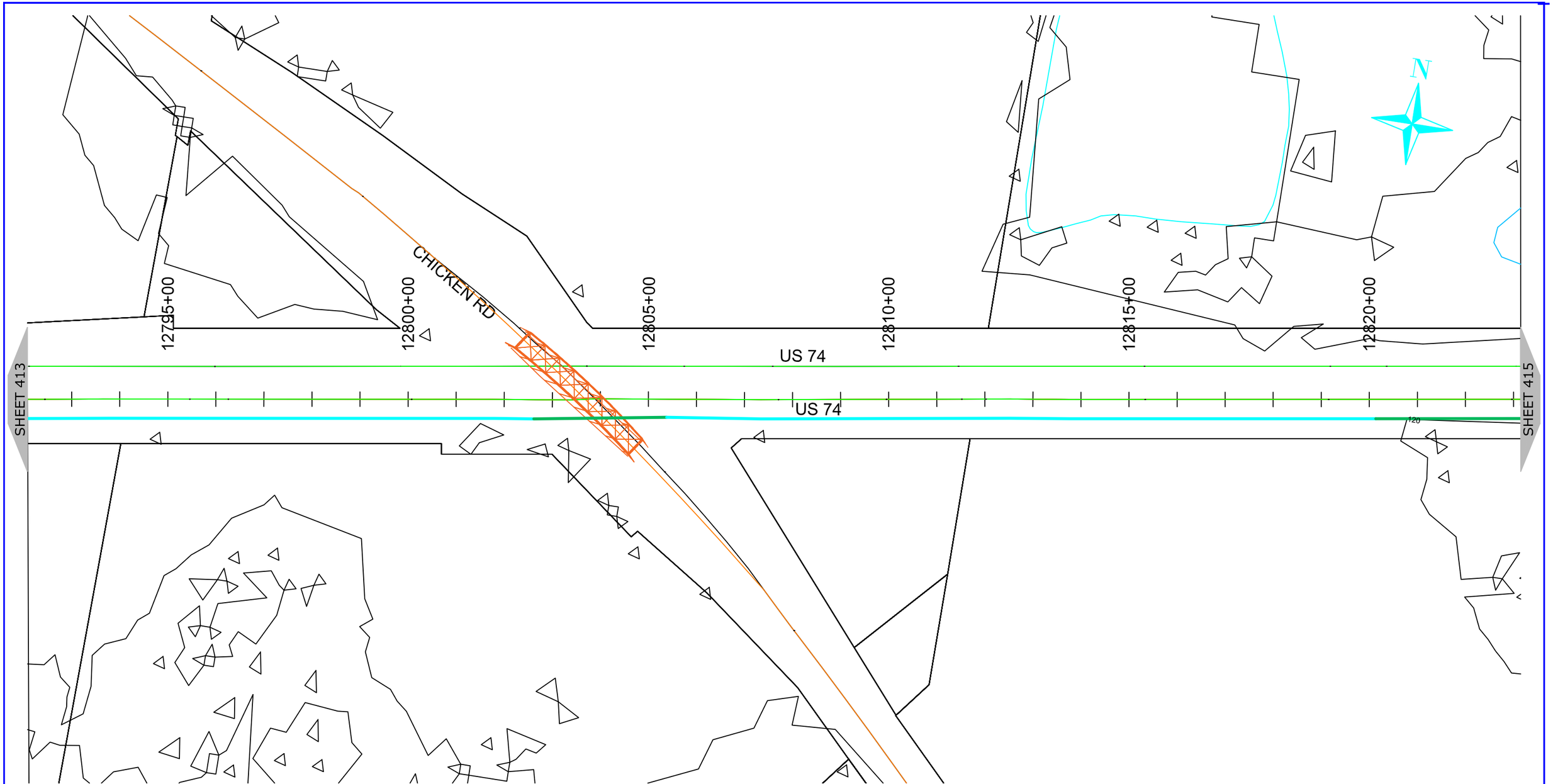
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PROJECT NAME: US 74

SHEET NAME: 413

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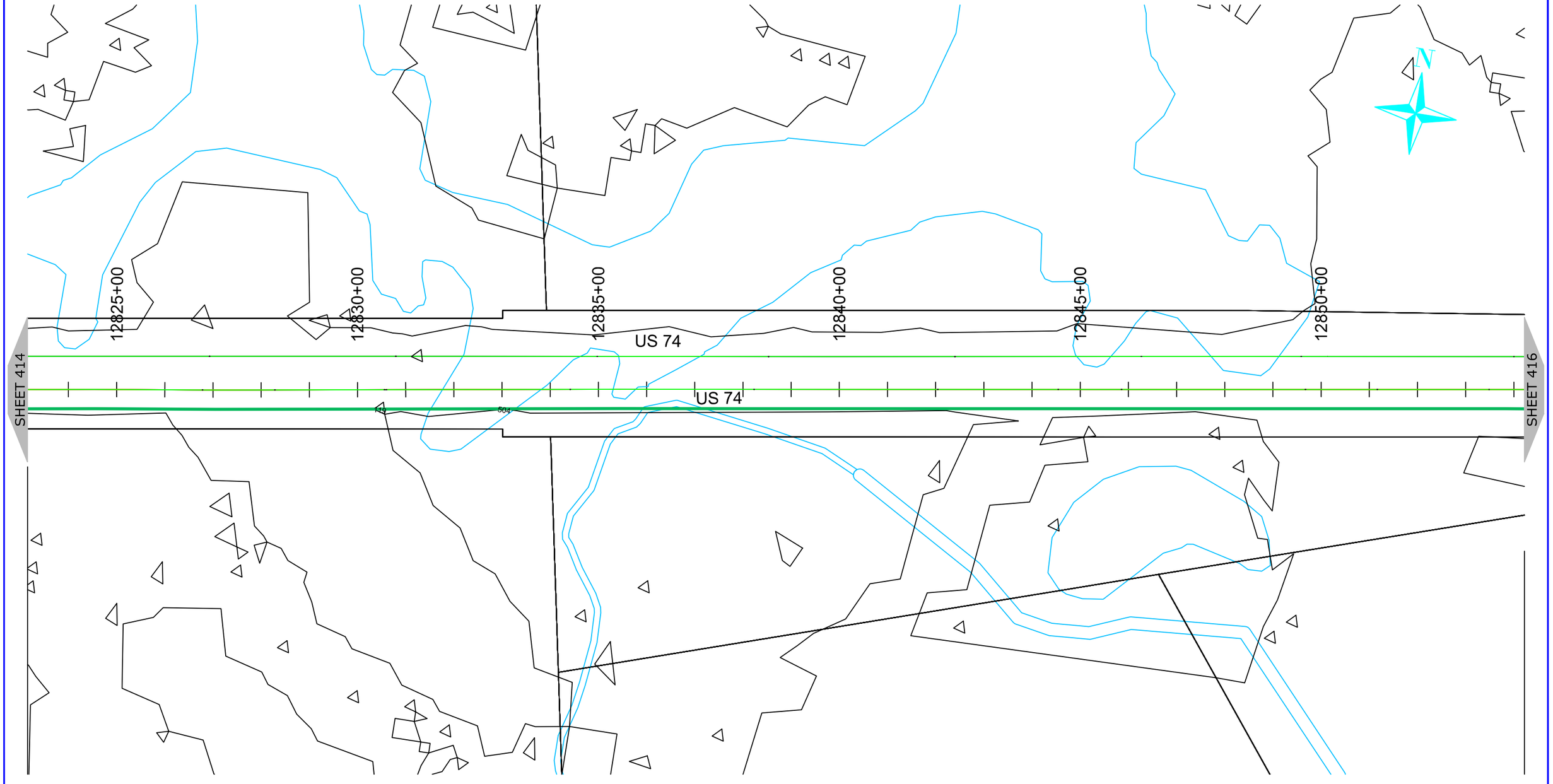
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PROJECT NAME: US 74

SHEET NAME: 414

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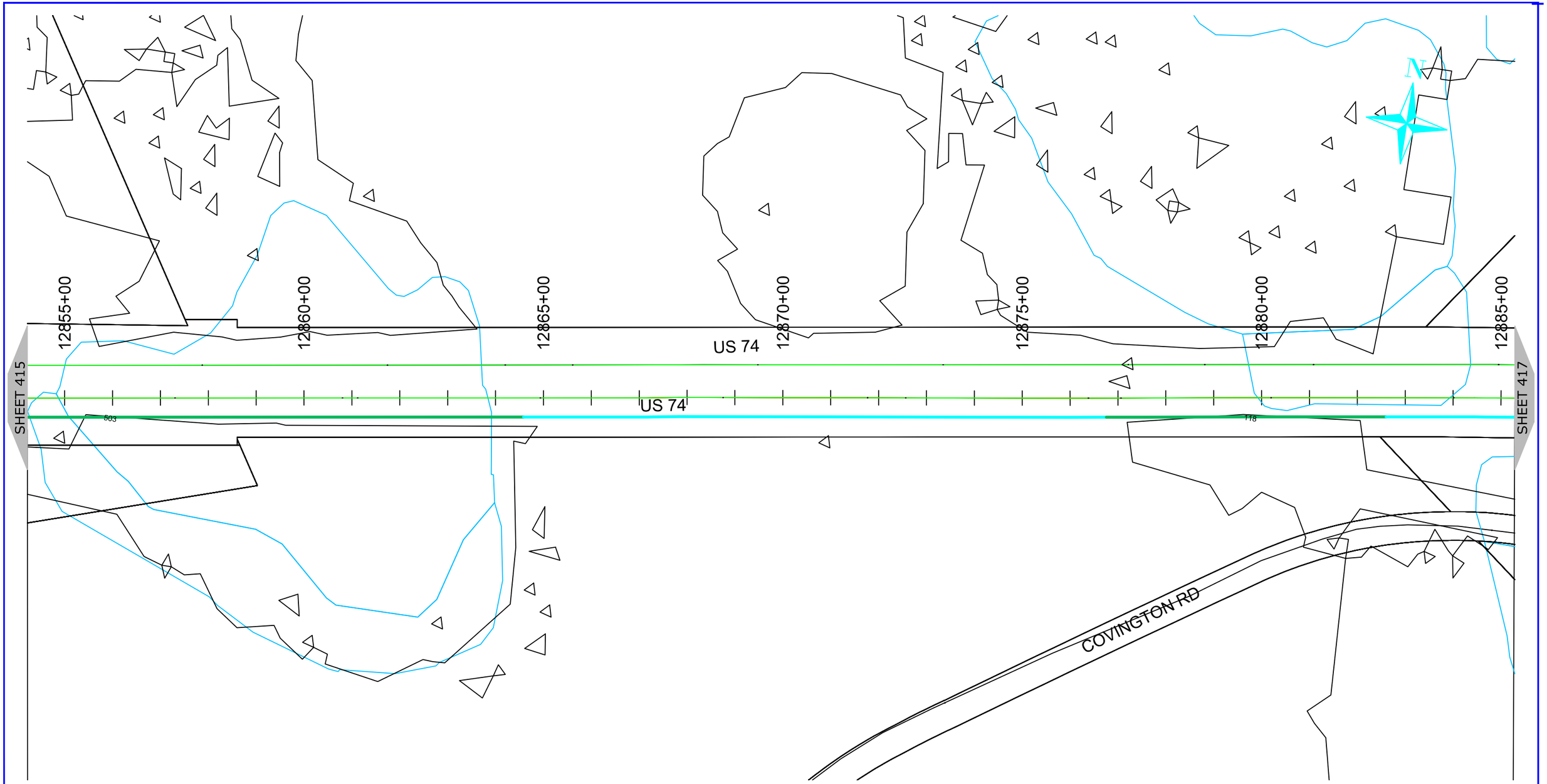
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 415

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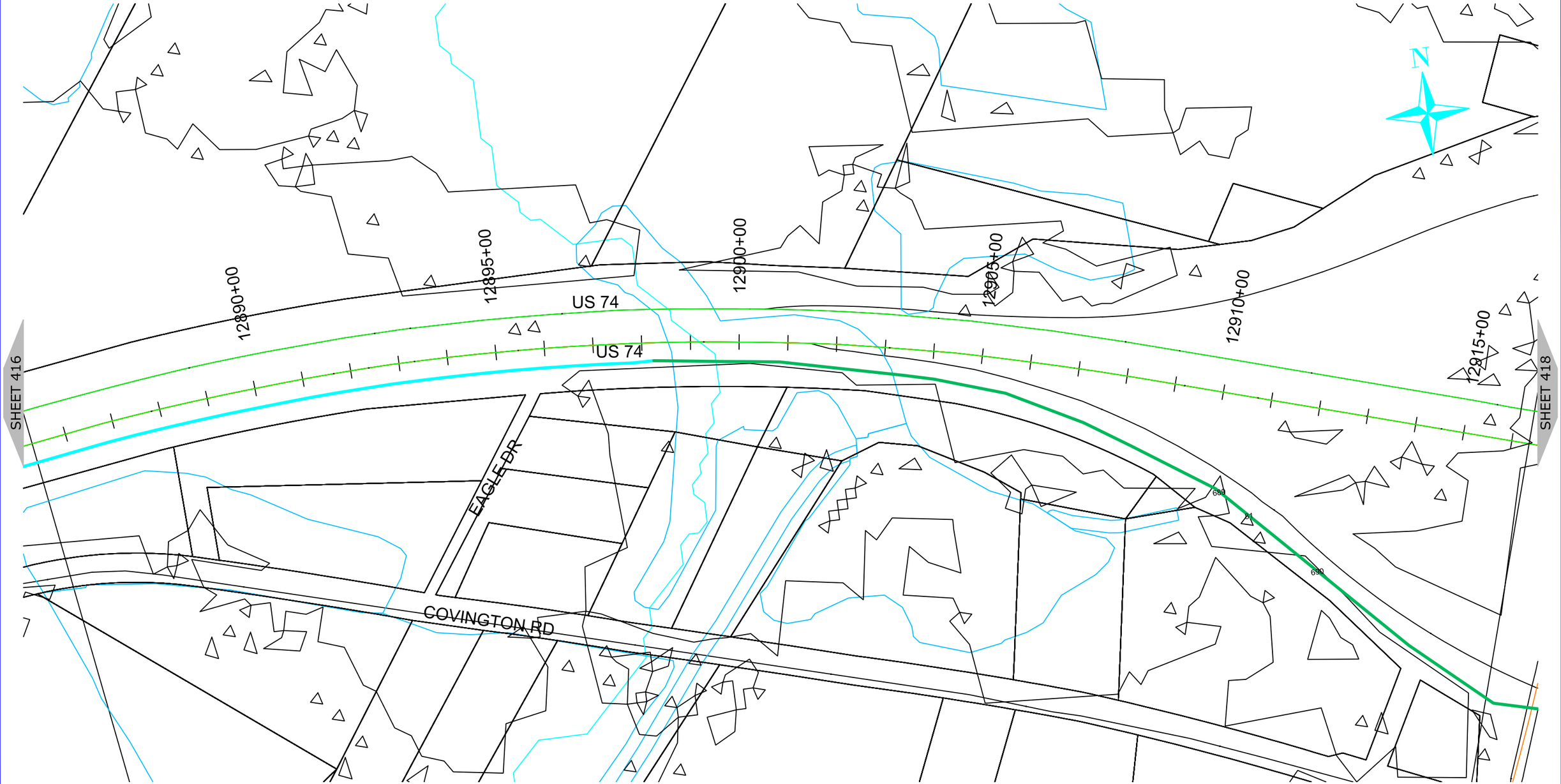
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PROJECT NAME: US 74

SHEET NAME: 416

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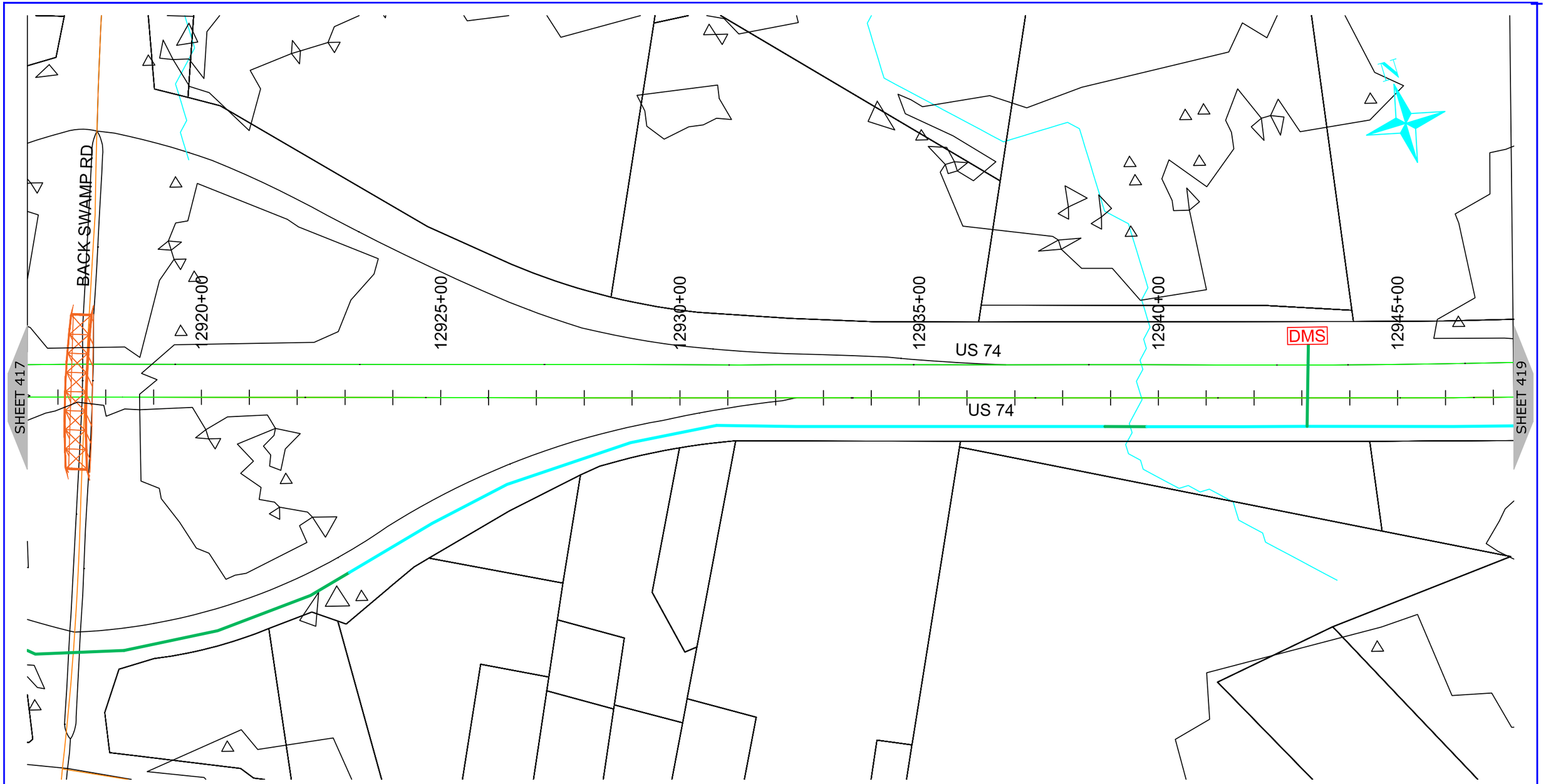
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PROJECT NAME: US 74

SHEET NAME: 417

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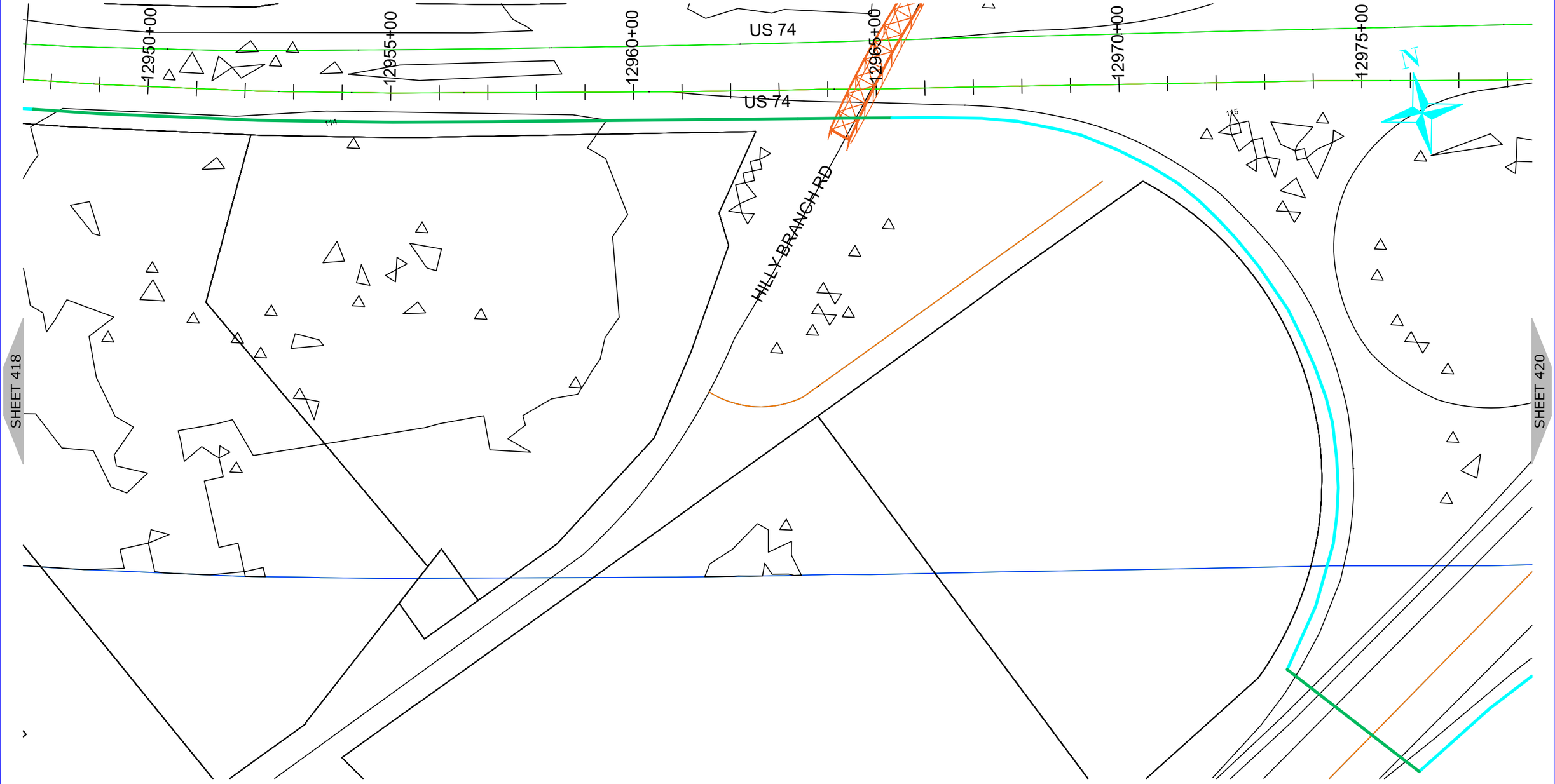
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PROJECT NAME: US 74

SHEET NAME: 418

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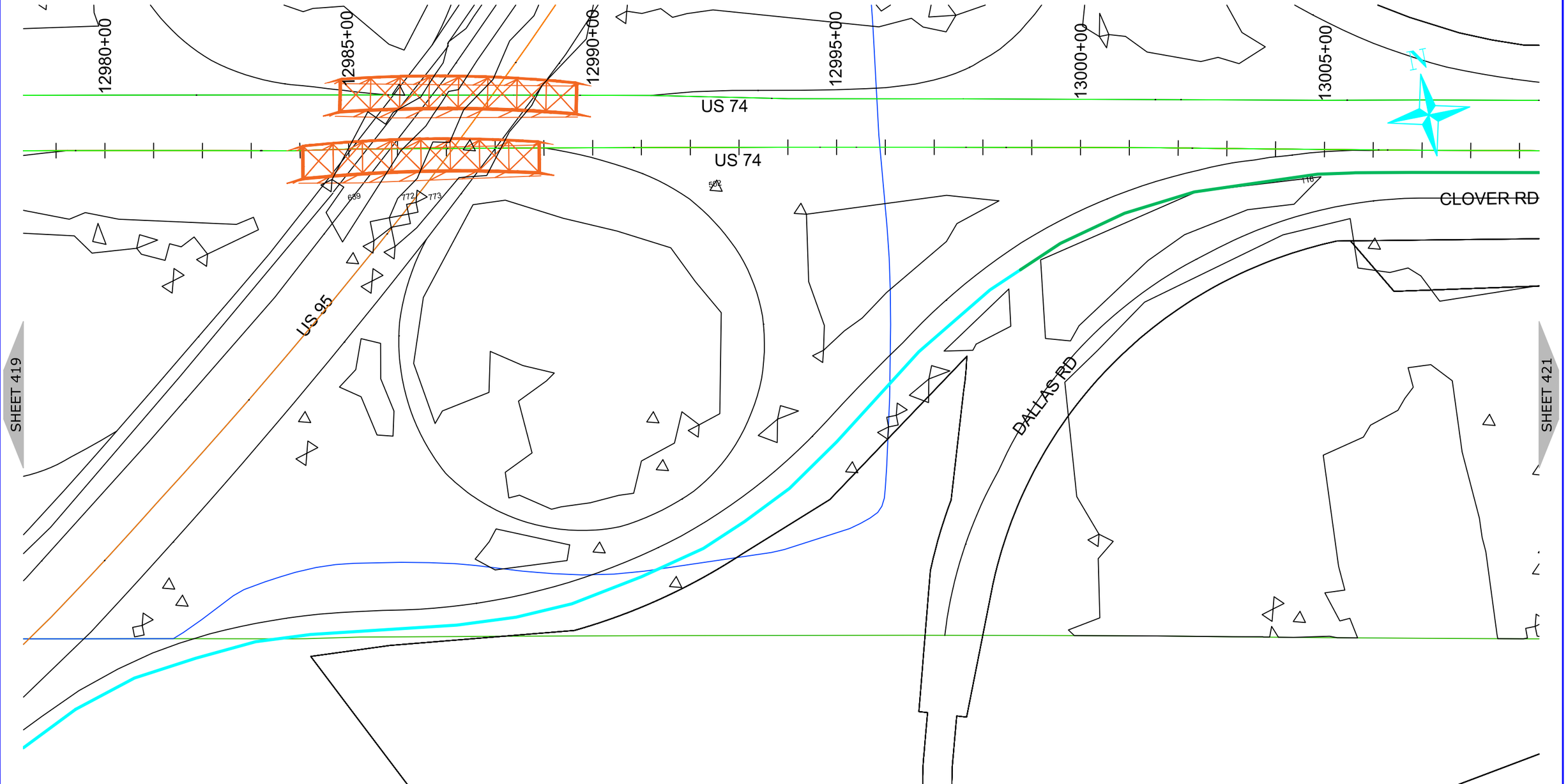
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PROJECT NAME: US 74

SHEET NAME: 419

SHEET: 419

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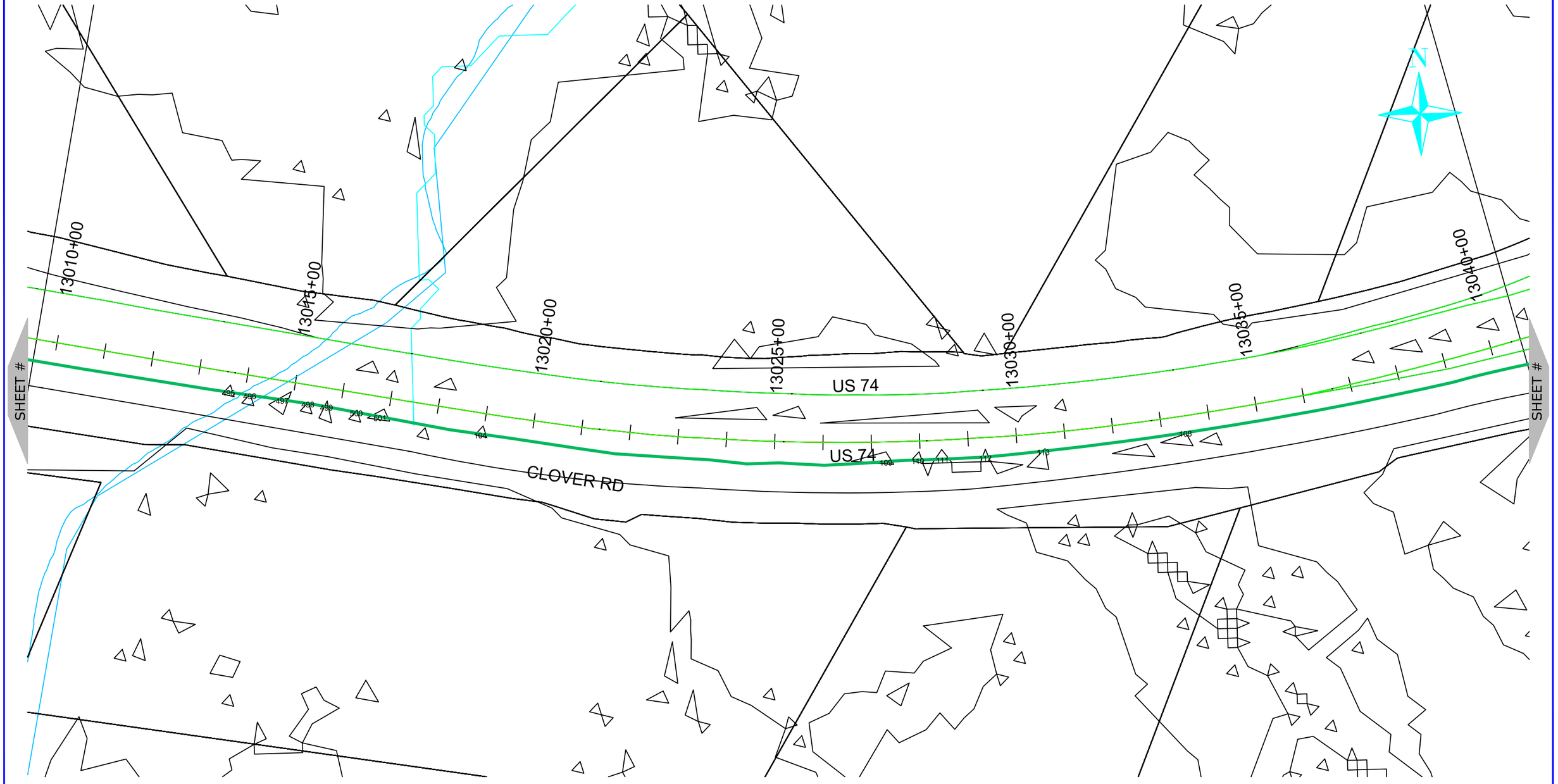
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PROJECT NAME: US 74

SHEET NAME: 420

SHEET: 420

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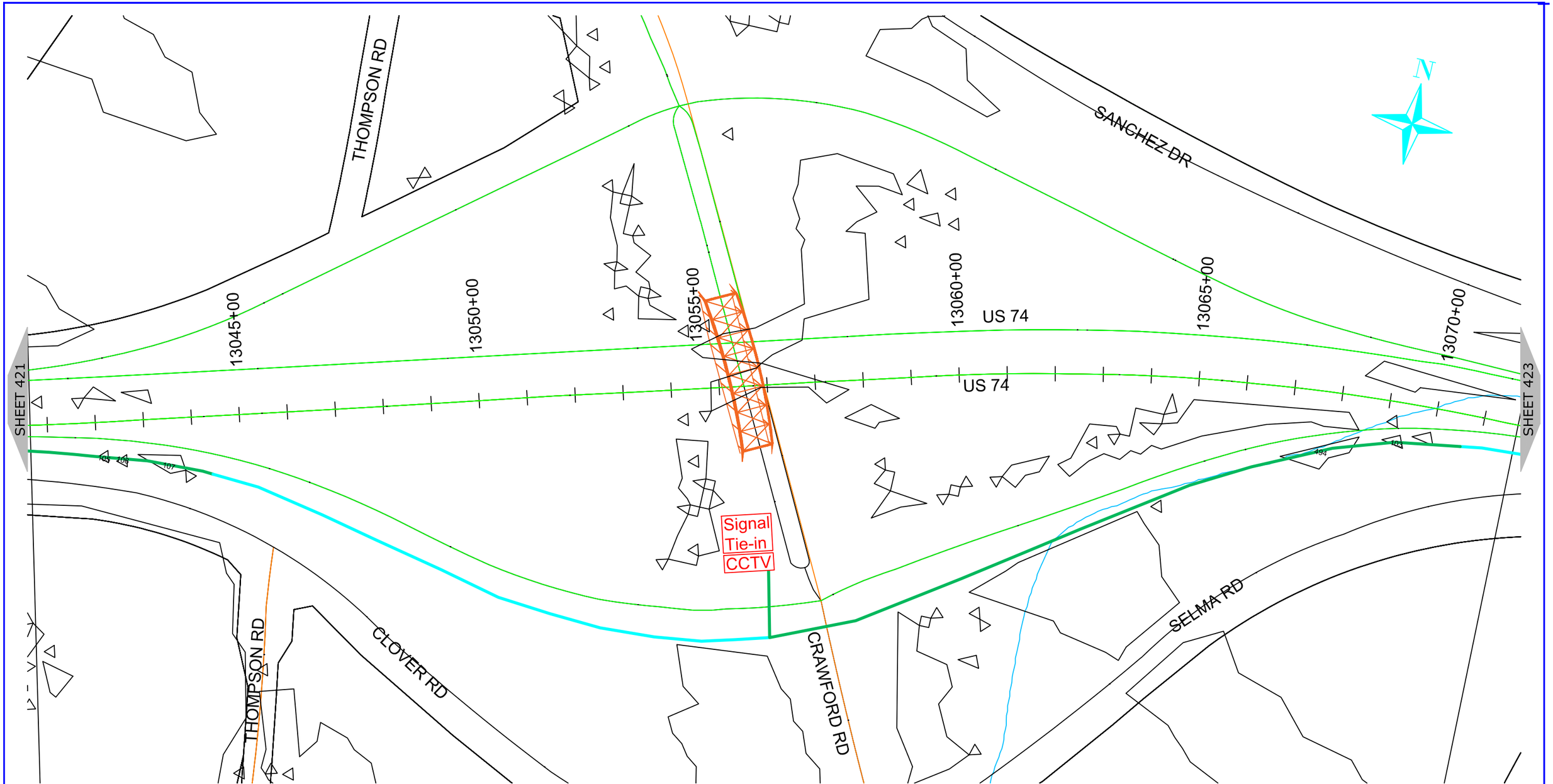
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PROJECT NAME: US 74

SHEET NAME: 421

SHEET: 421

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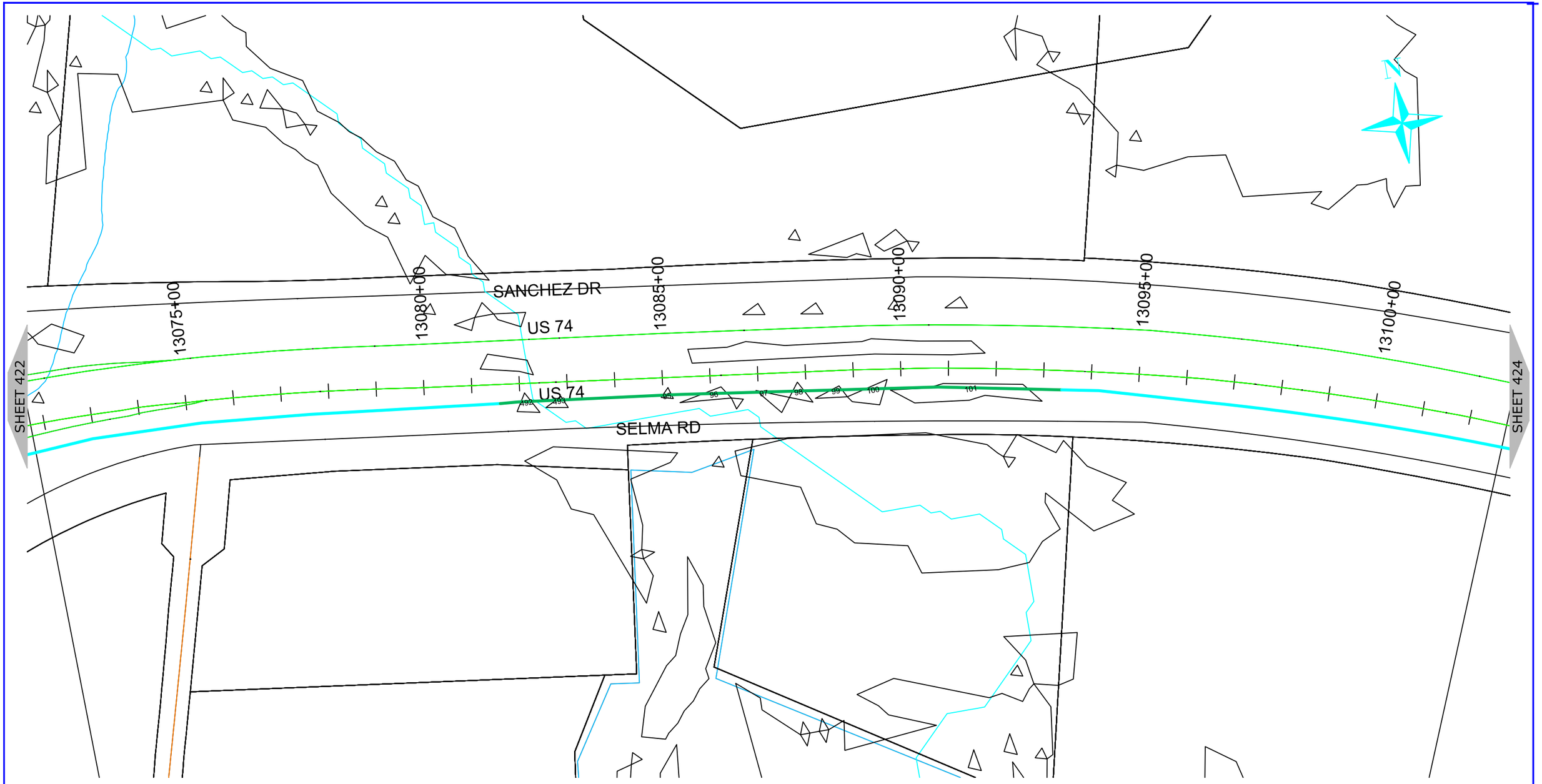
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DATE:	12-05-2021
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PROJECT NAME: US 74

SHEET NAME: 422

SHEET: 422

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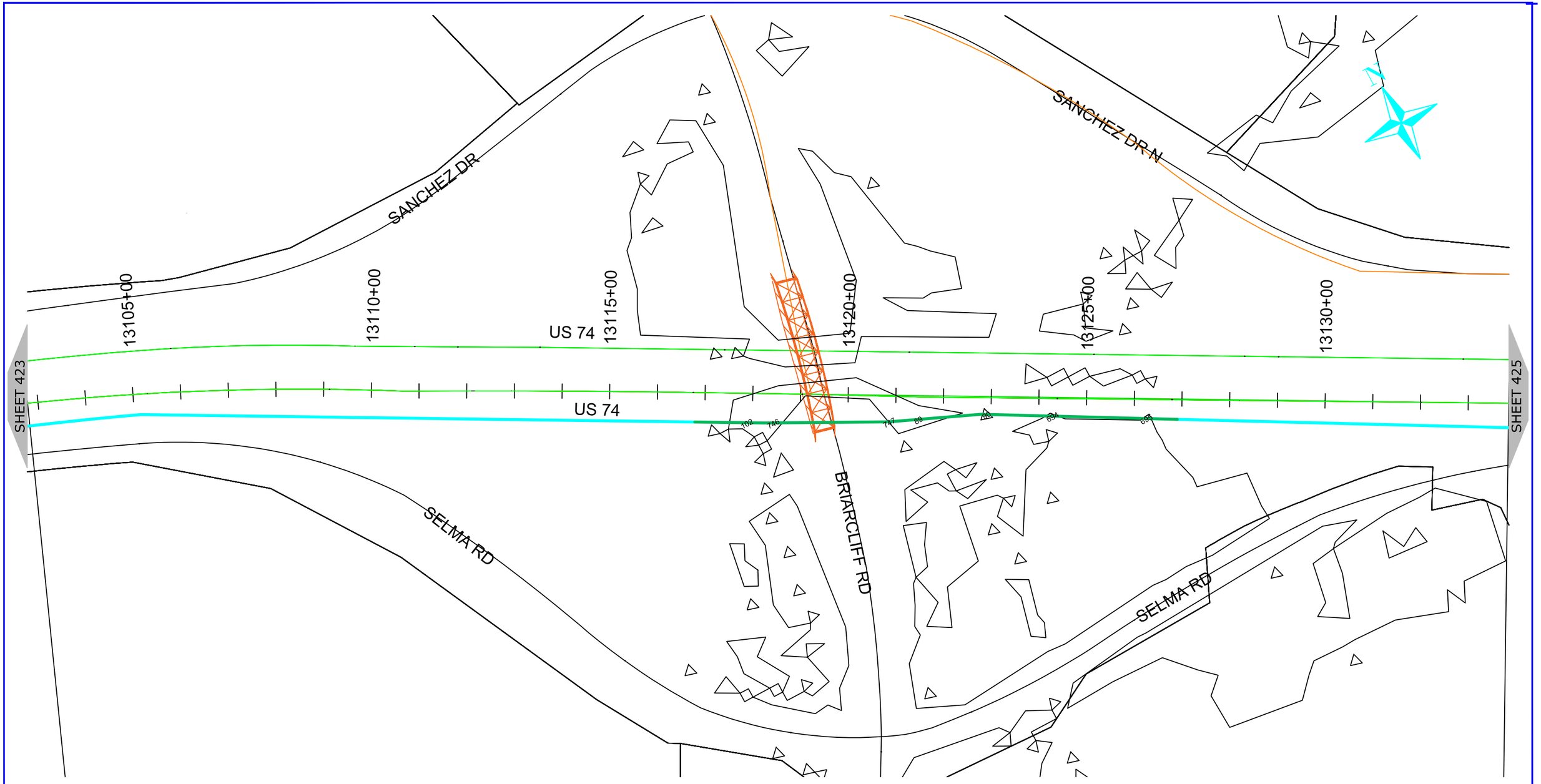
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PROJECT NAME: US 74

SHEET NAME: 423

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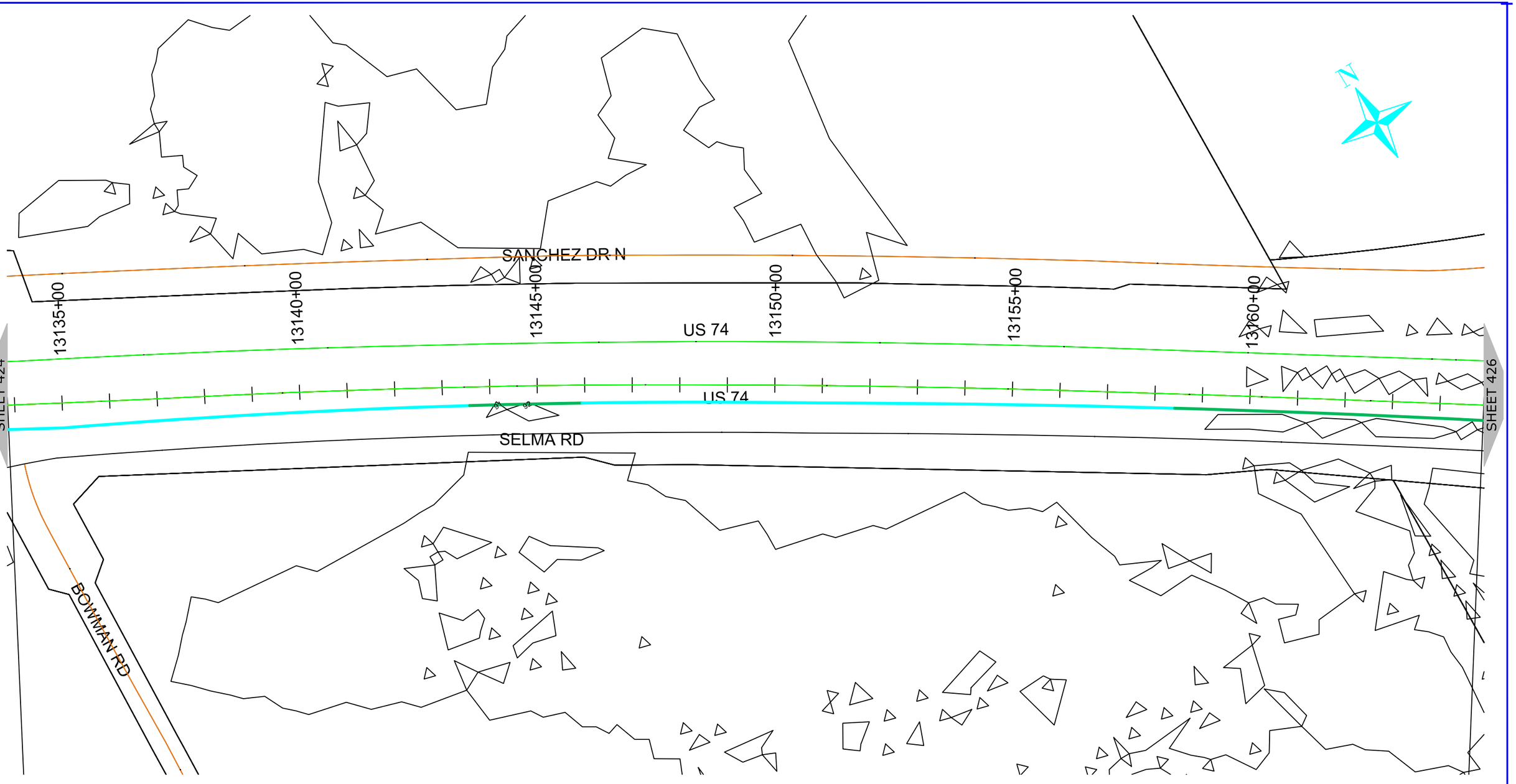
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PROJECT NAME: US 74

SHEET NAME: 424

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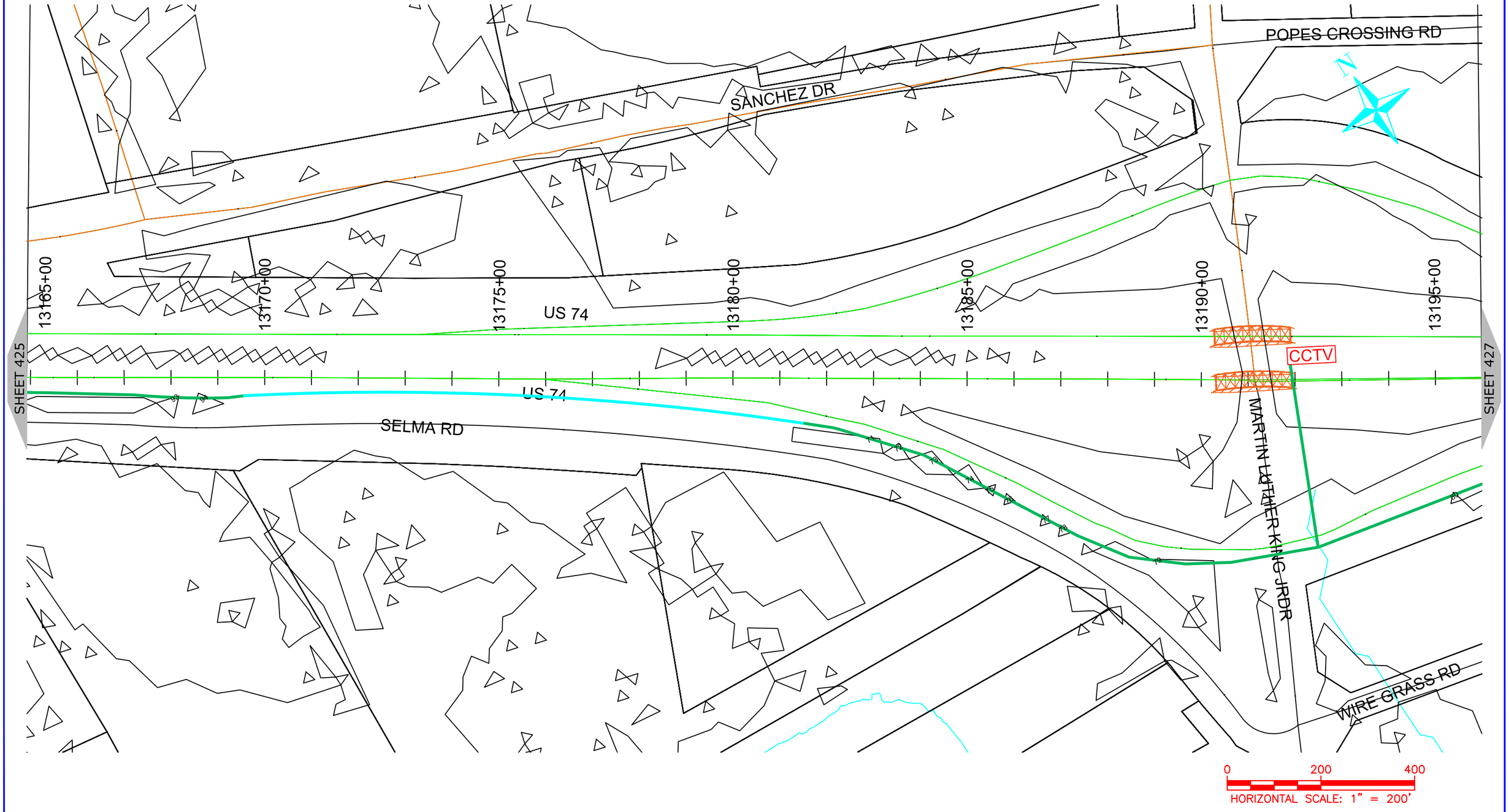
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PROJECT NAME: US 74

SHEET NAME: 425

SHEET: 425

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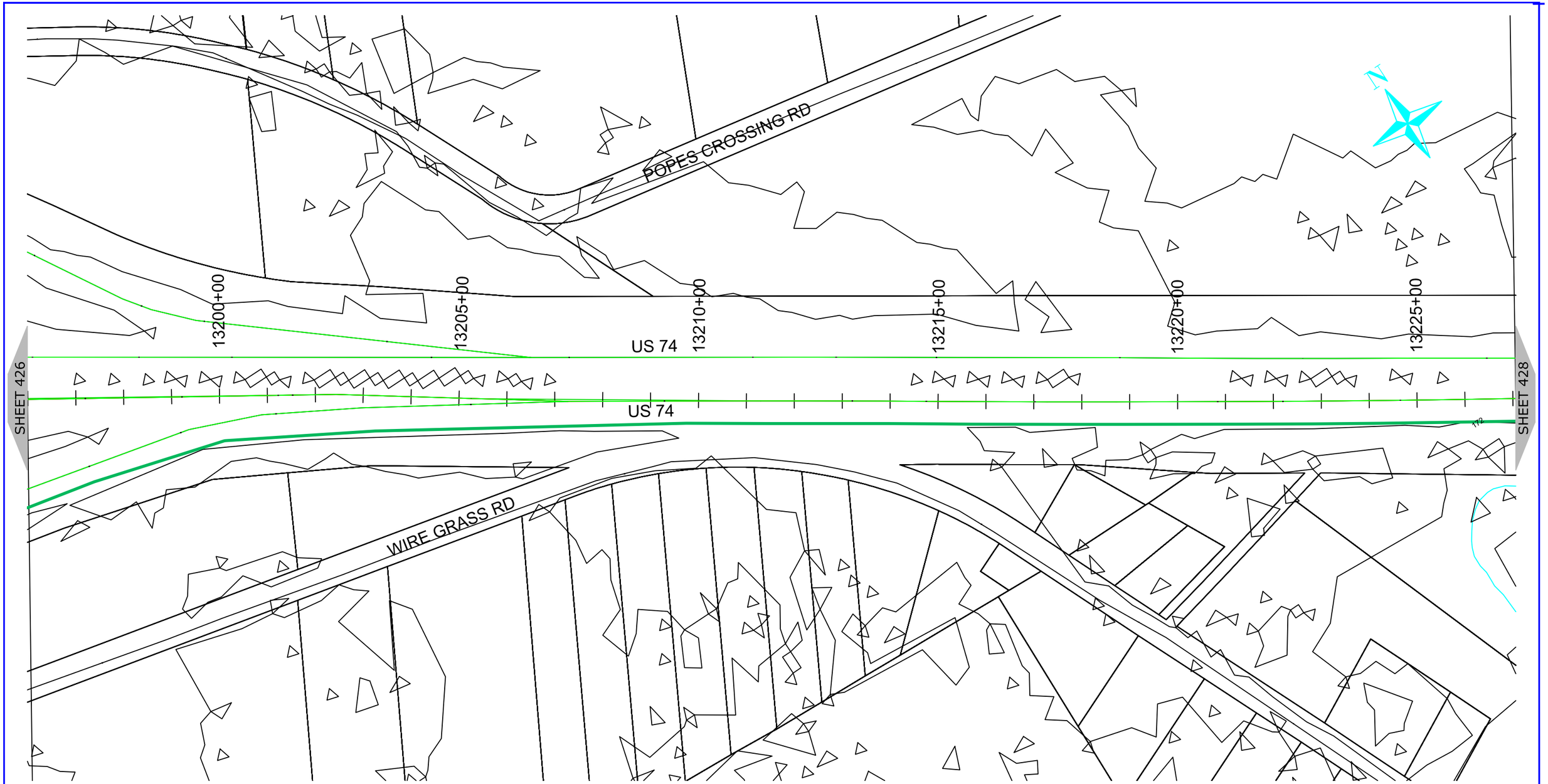
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PROJECT NAME:
US 74

SHEET NAME:
426

SHEET:
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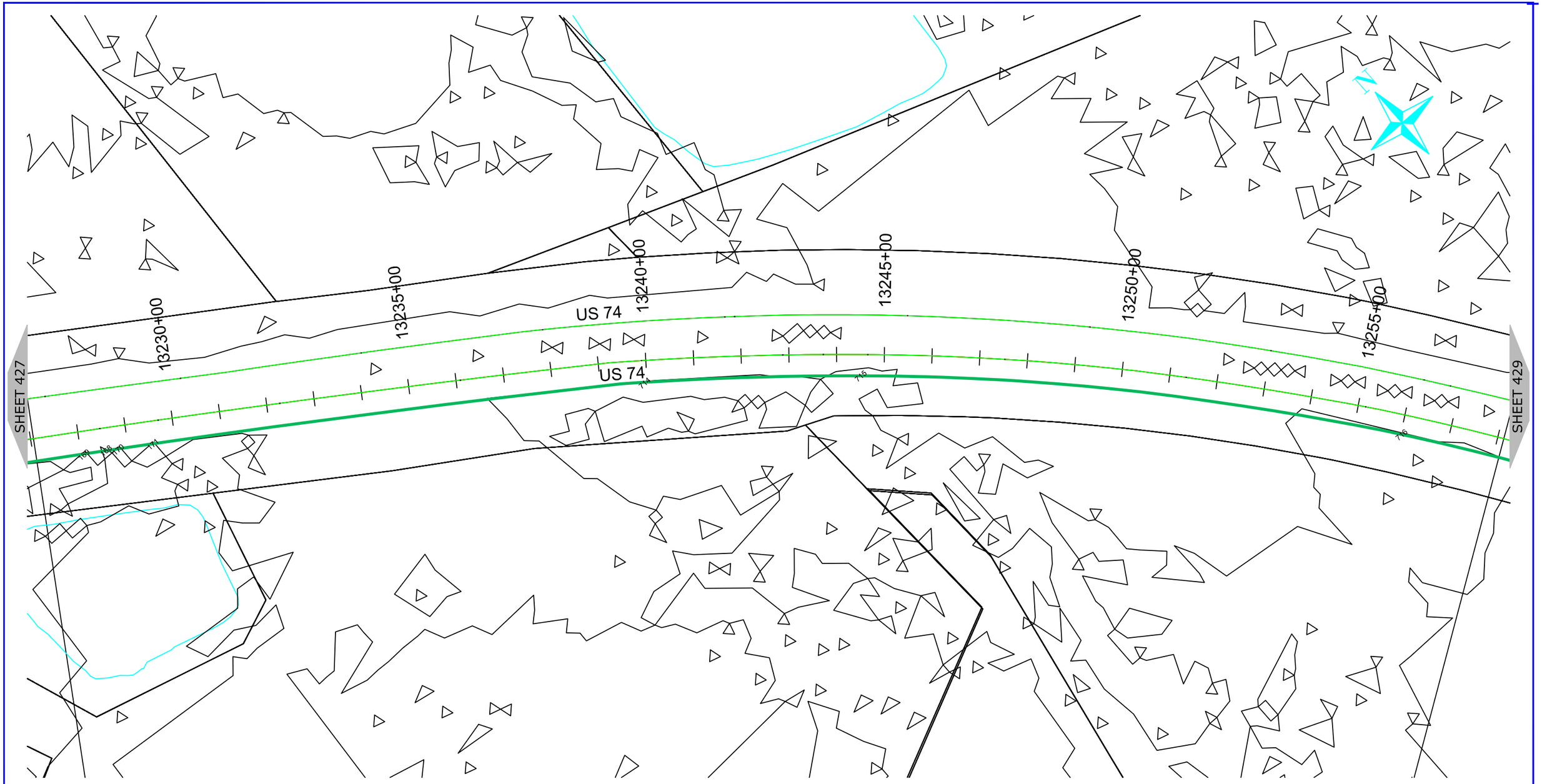
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PROJECT NAME:
US 74

SHEET NAME:
427

SHEET:
427

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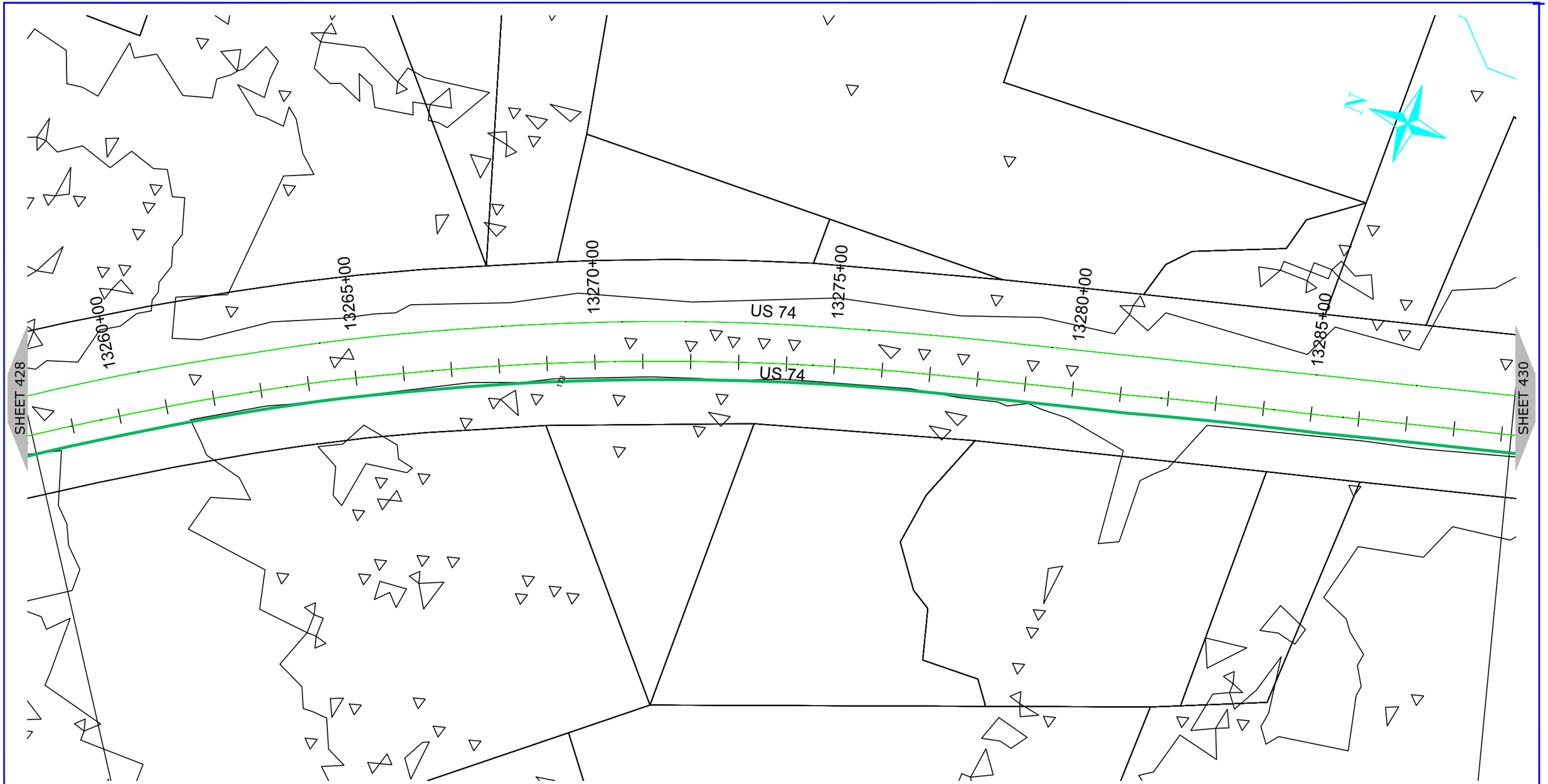
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PROJECT NAME:
US 74

SHEET NAME:
428

SHEET:
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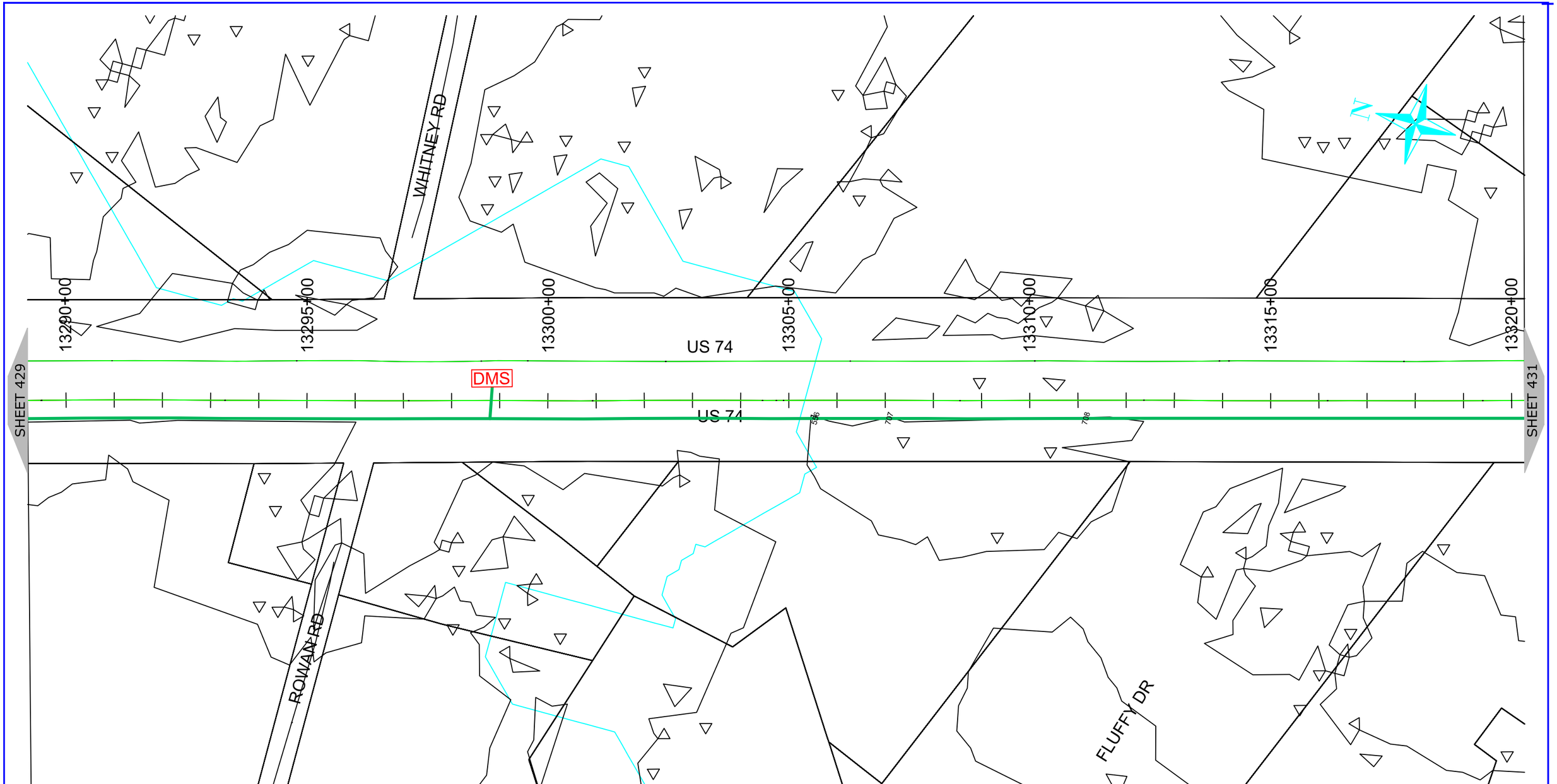
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 429

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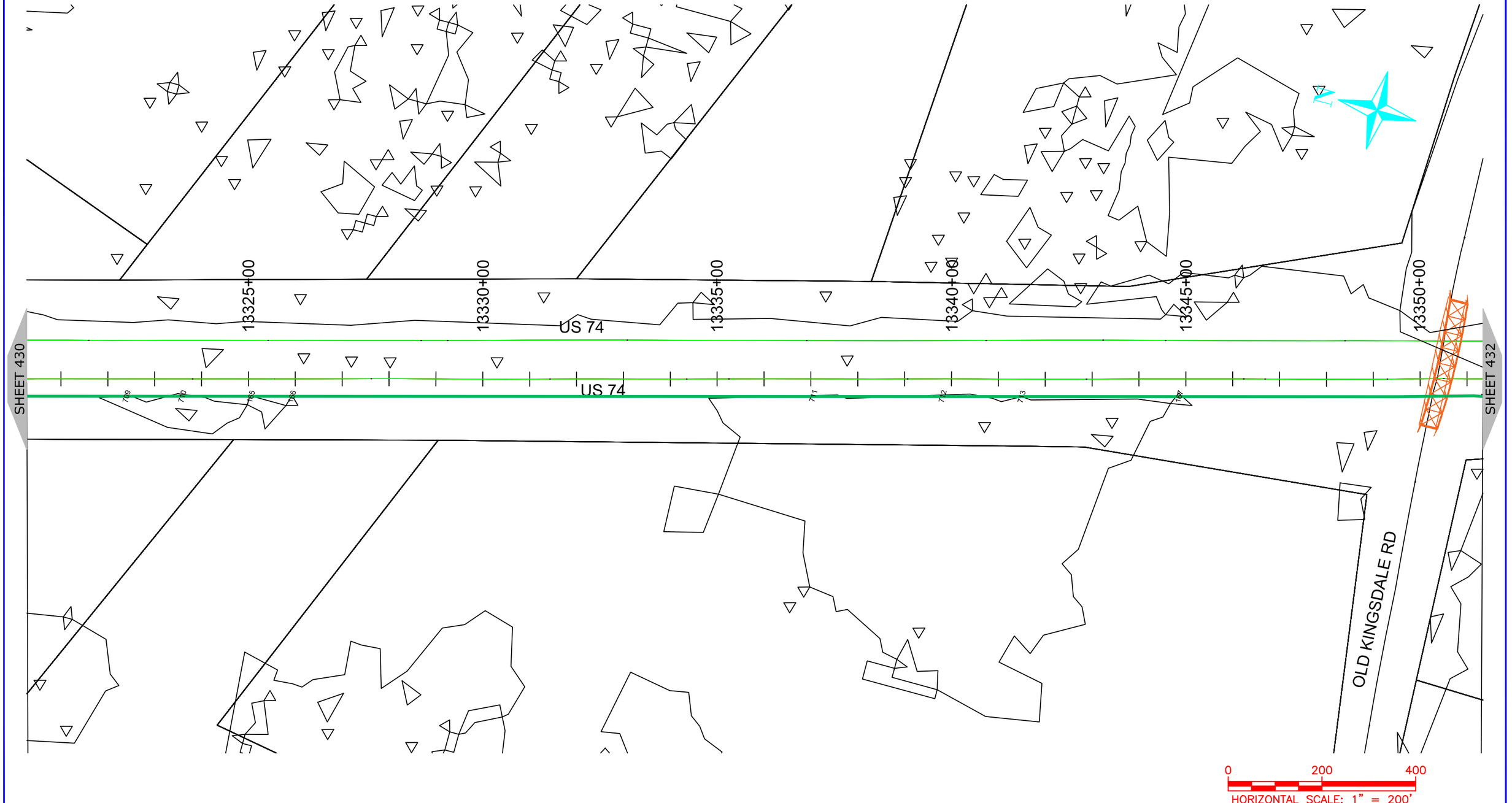
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PROJECT NAME: US 74

SHEET NAME: 430

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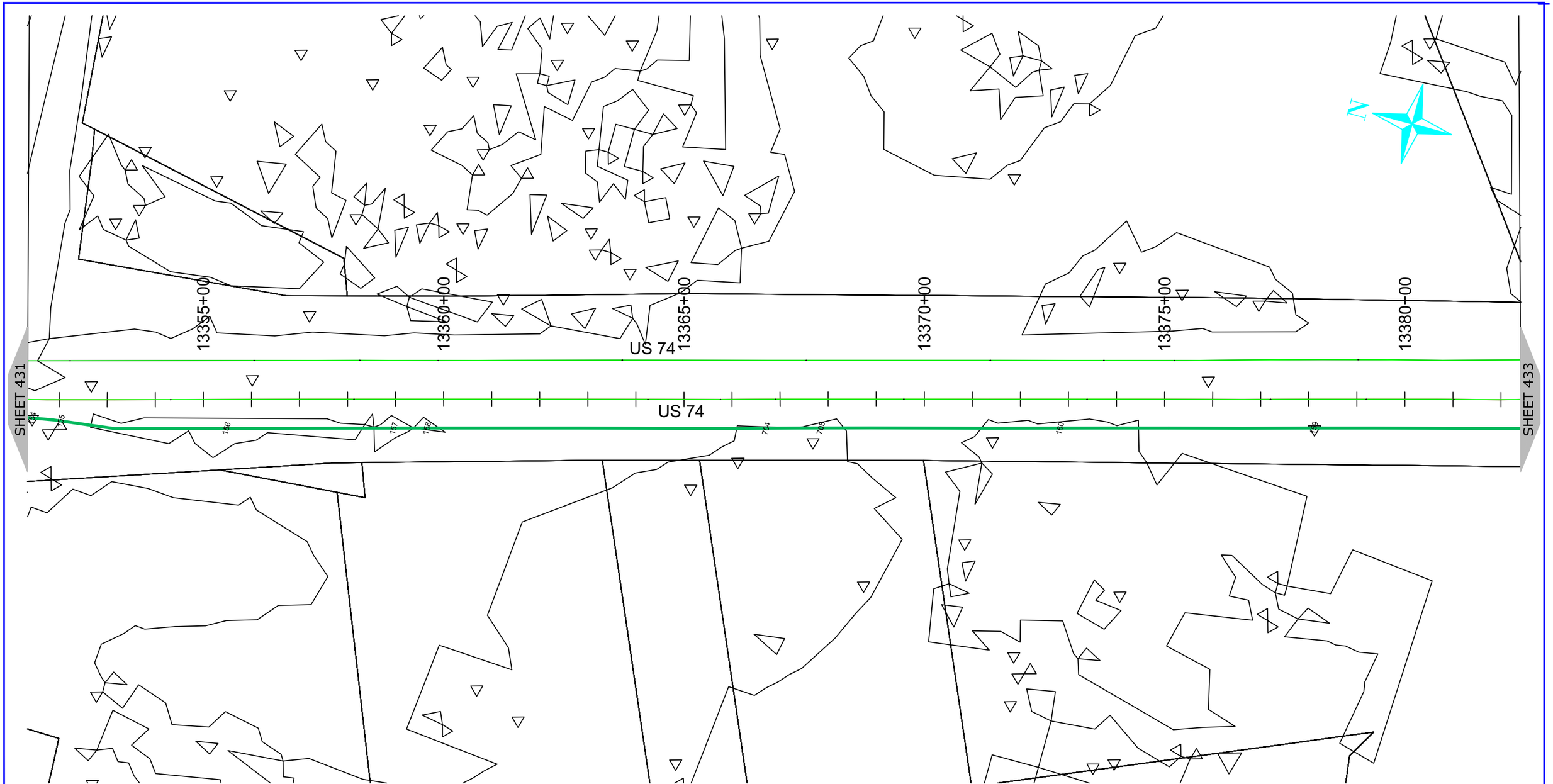
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 431

SHEET: 431

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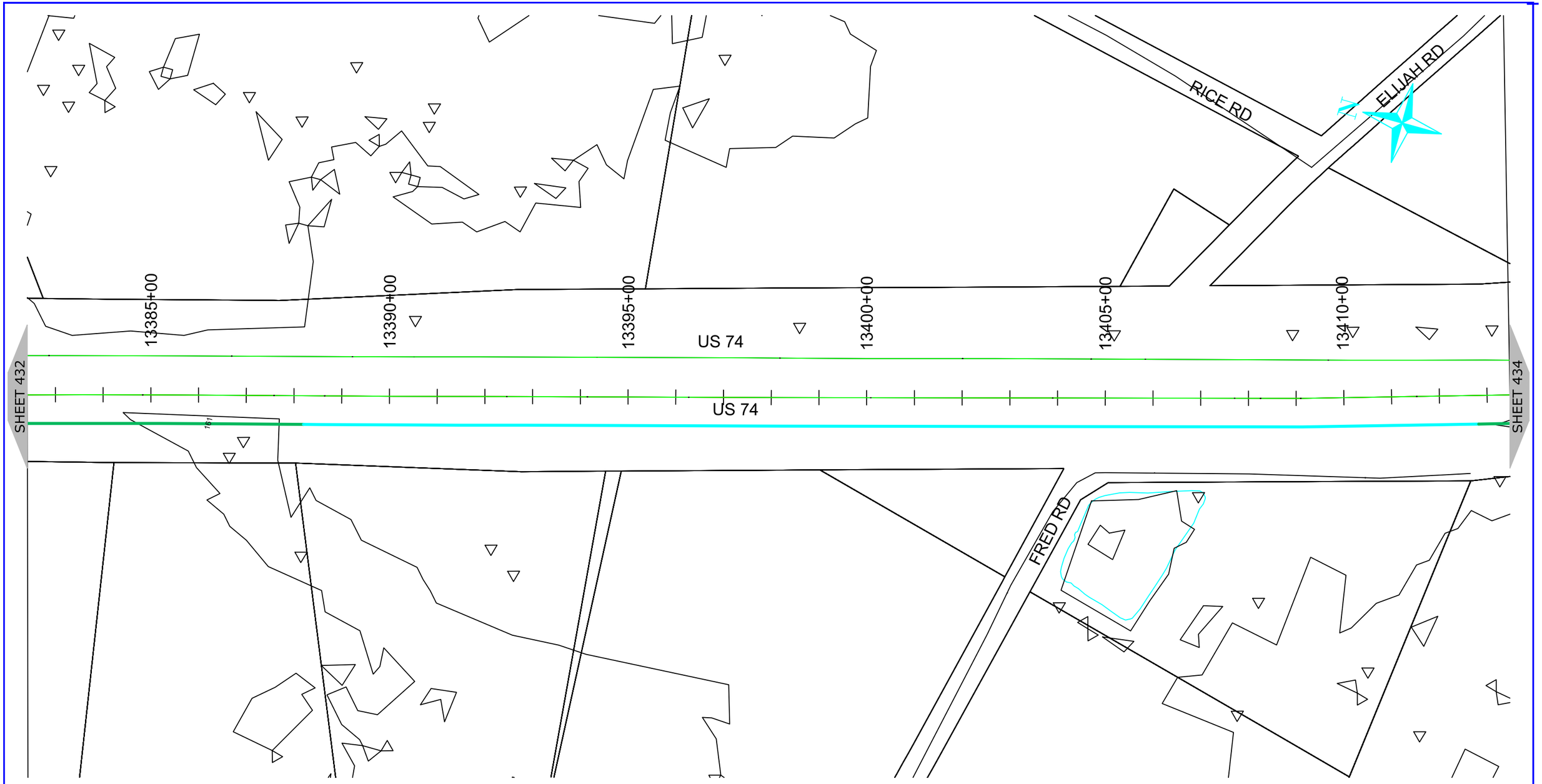
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 432

SHEET: 432

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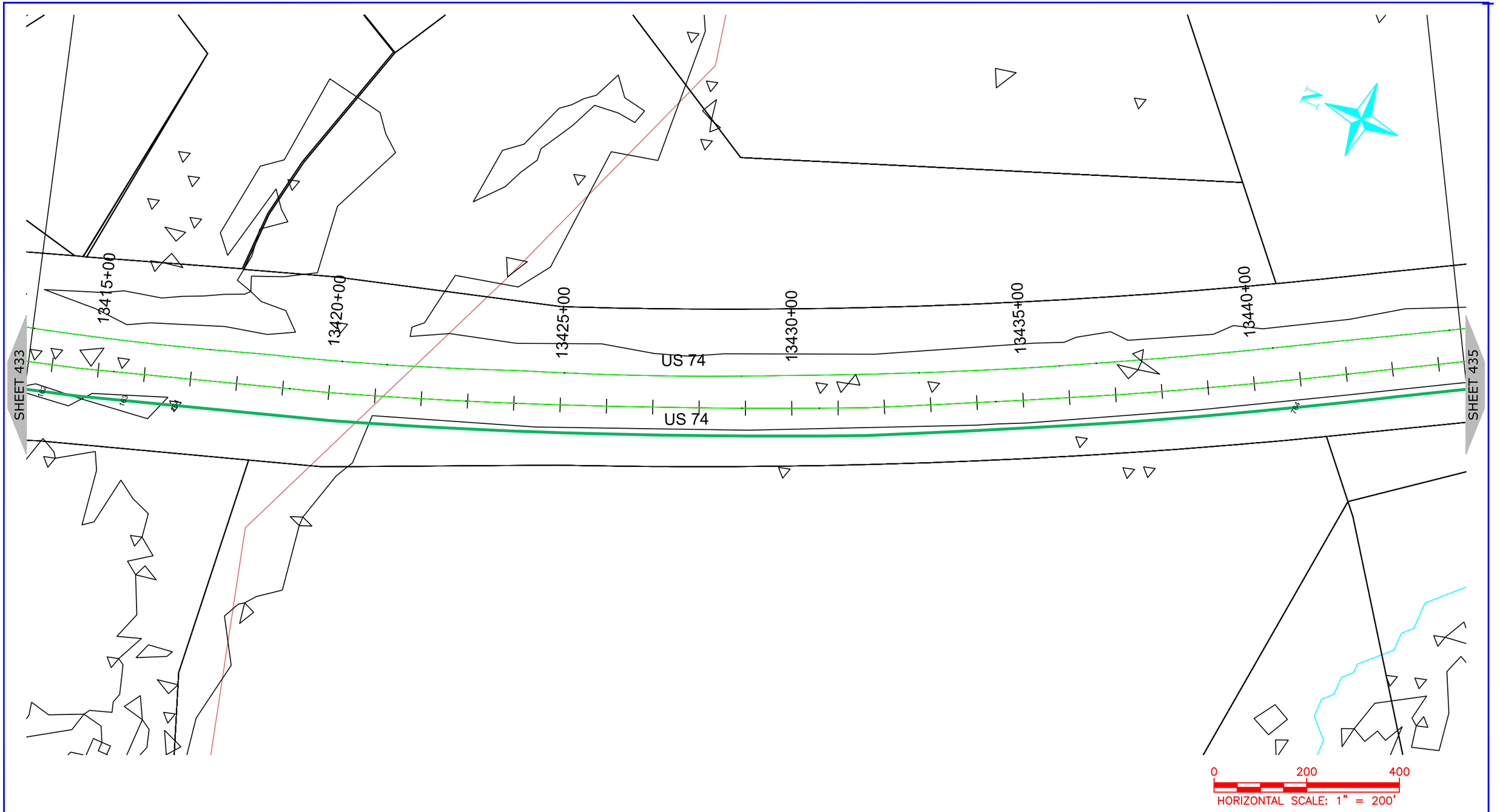
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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APPROVED BY:	---

PROJECT NAME:
US 74

SHEET NAME:
433

SHEET:
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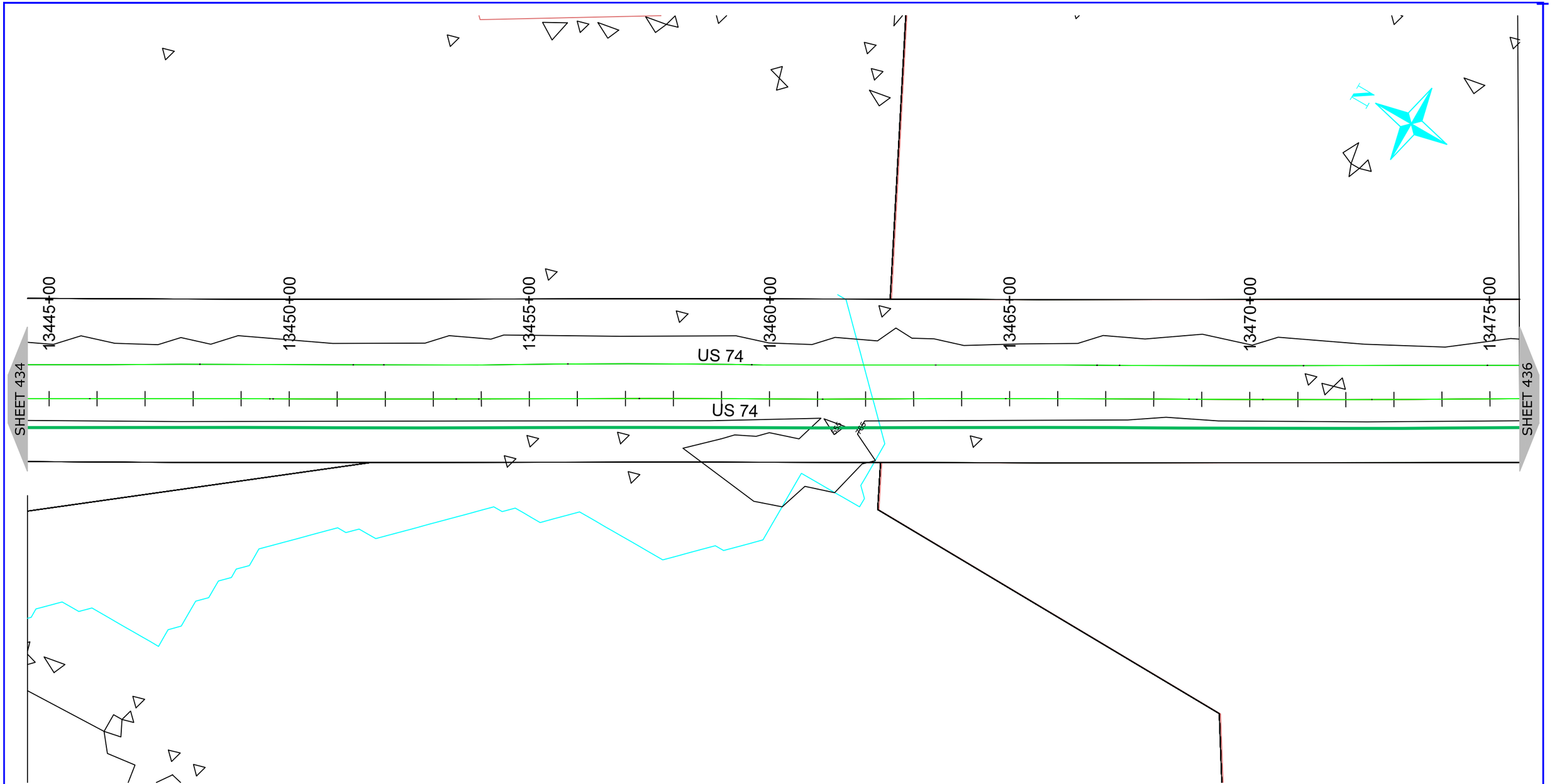
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DATE:	12-05-2021
SCALE:	1:200
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DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 434

SHEET: 434

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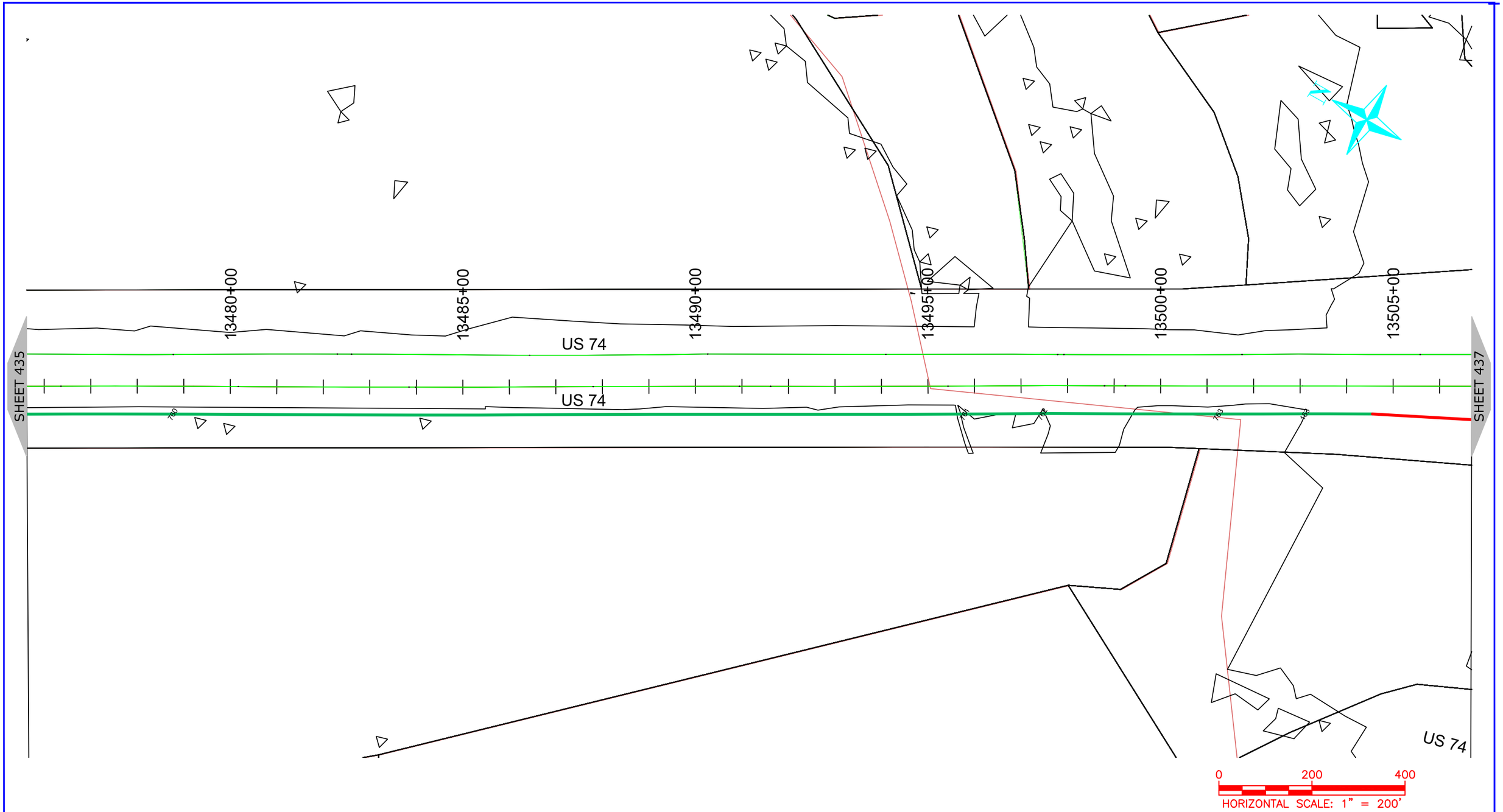
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SCALE:	1:200
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 435

SHEET: 435

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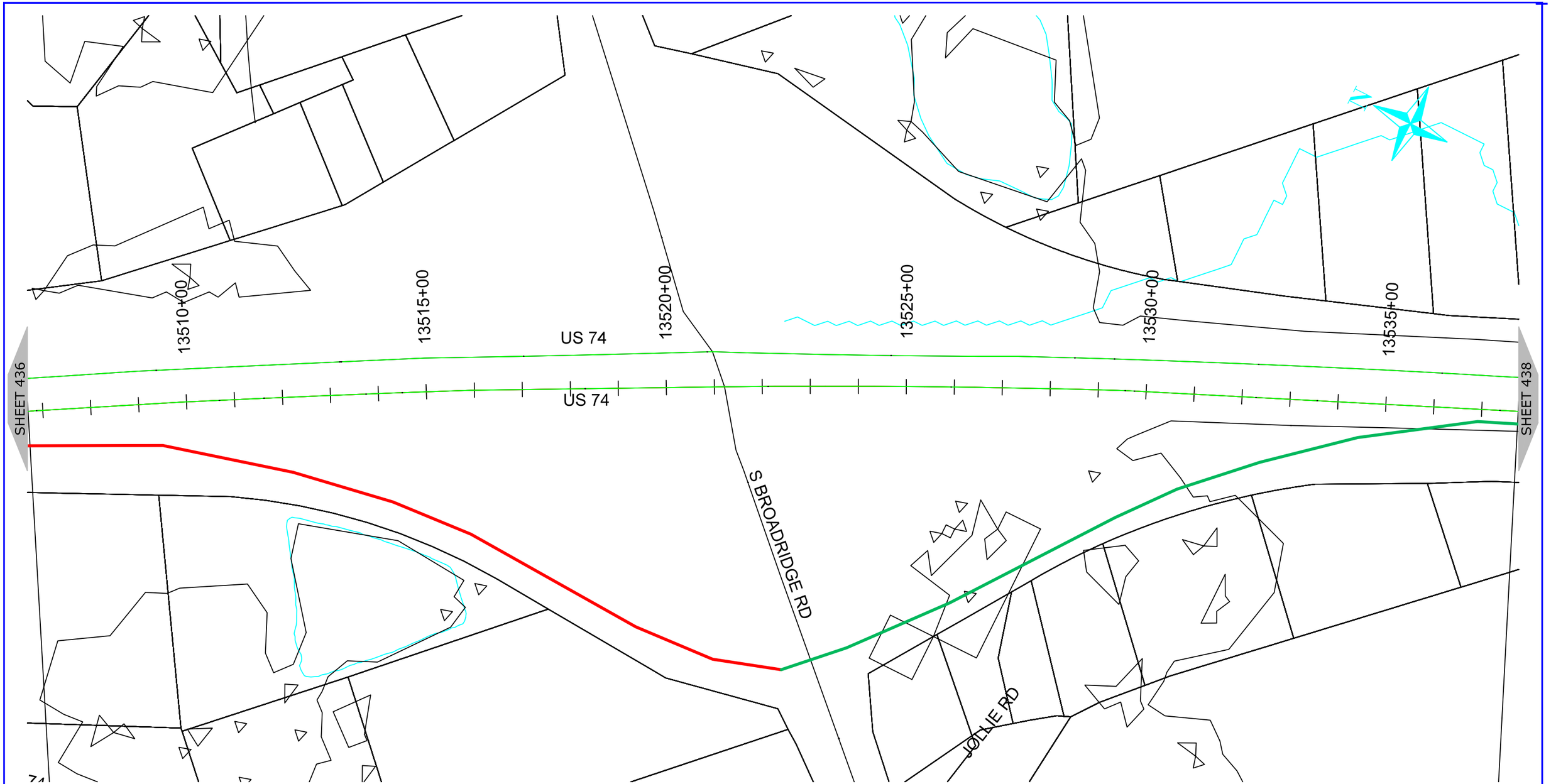
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 436

SHEET: 436

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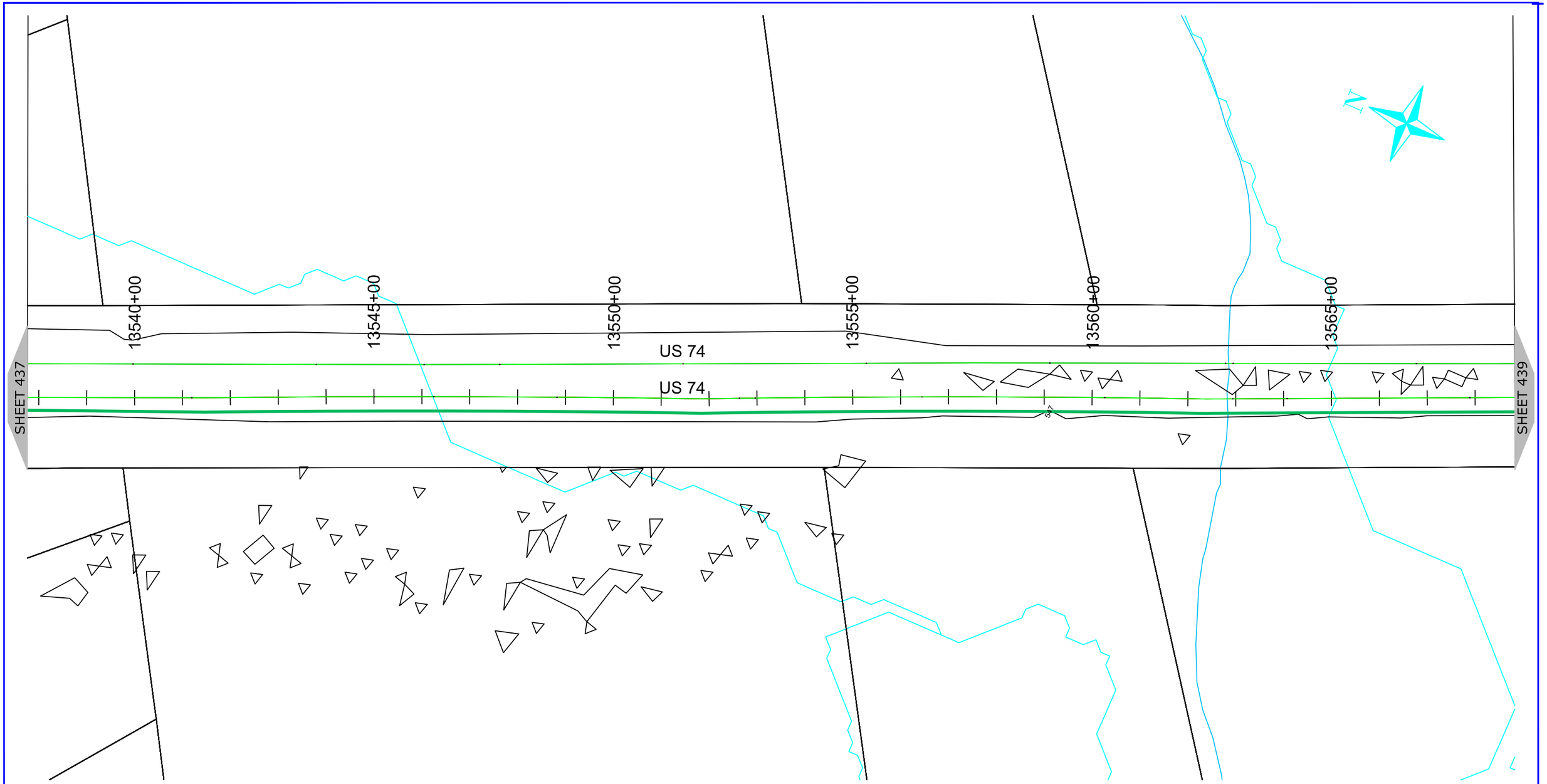
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PROJECT NAME: US 74

SHEET NAME: 437

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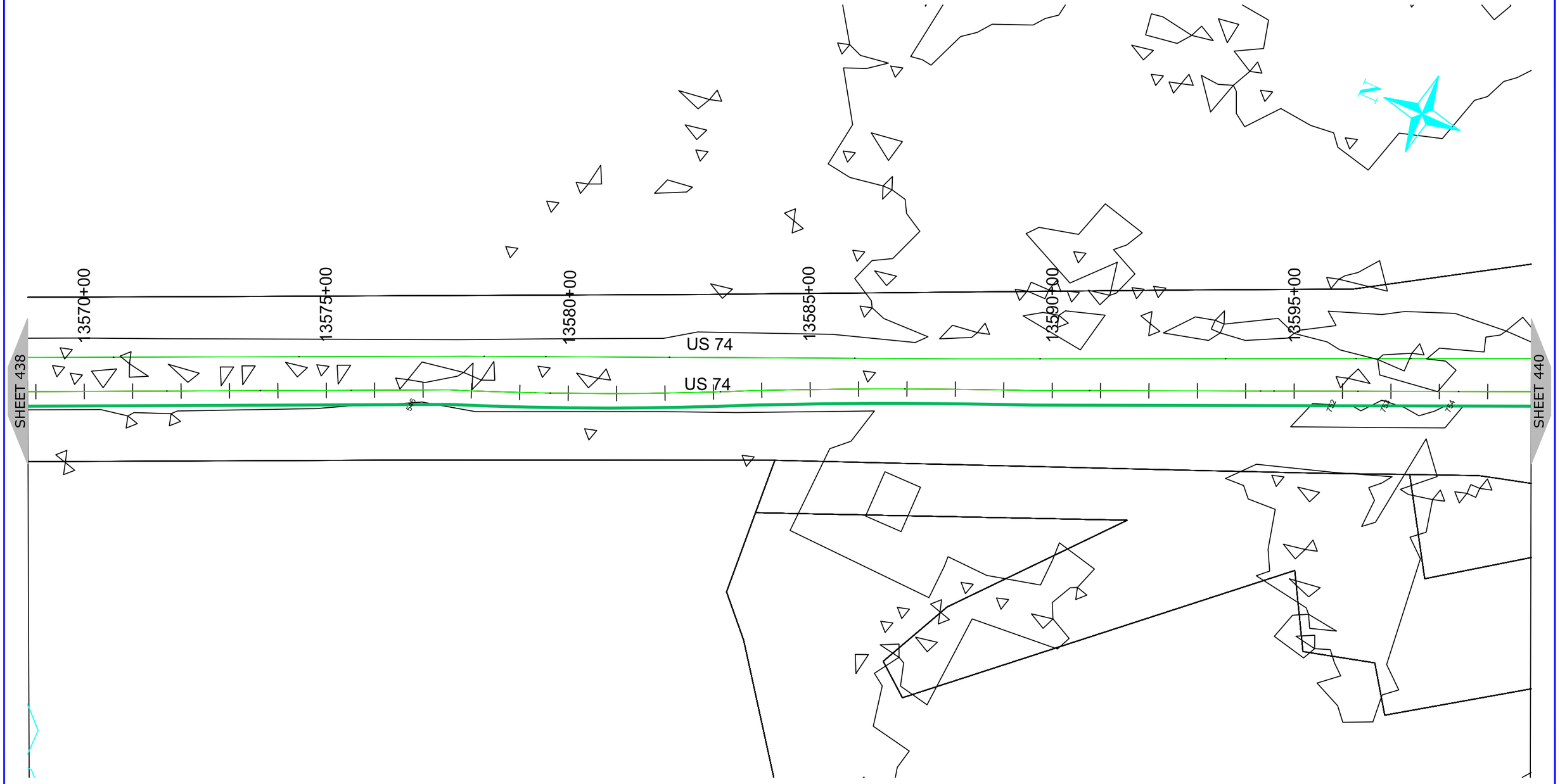
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PROJECT NAME: US 74

SHEET NAME: 438

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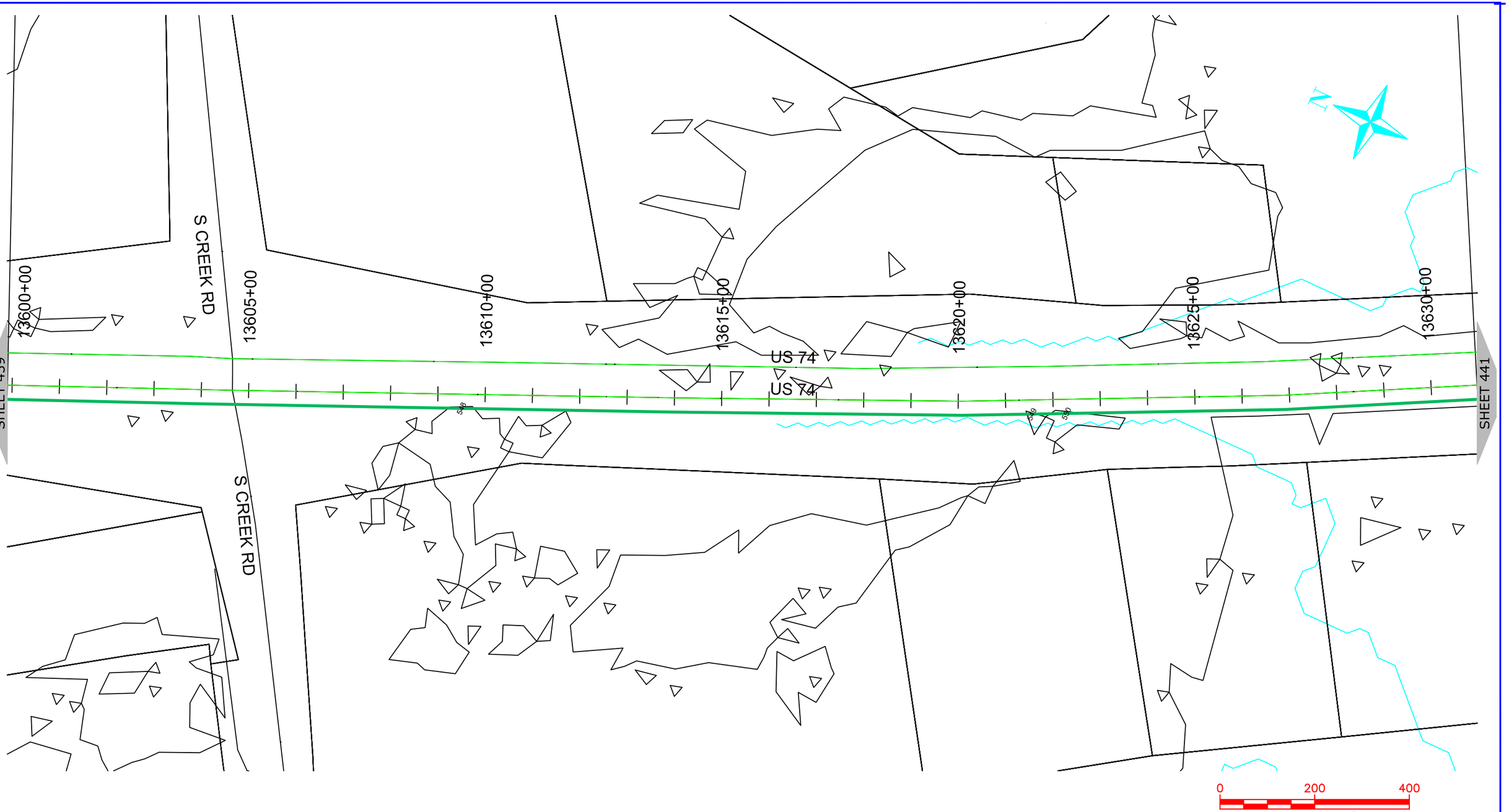
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PROJECT NAME: US 74

SHEET NAME: 439

SHEET: 439

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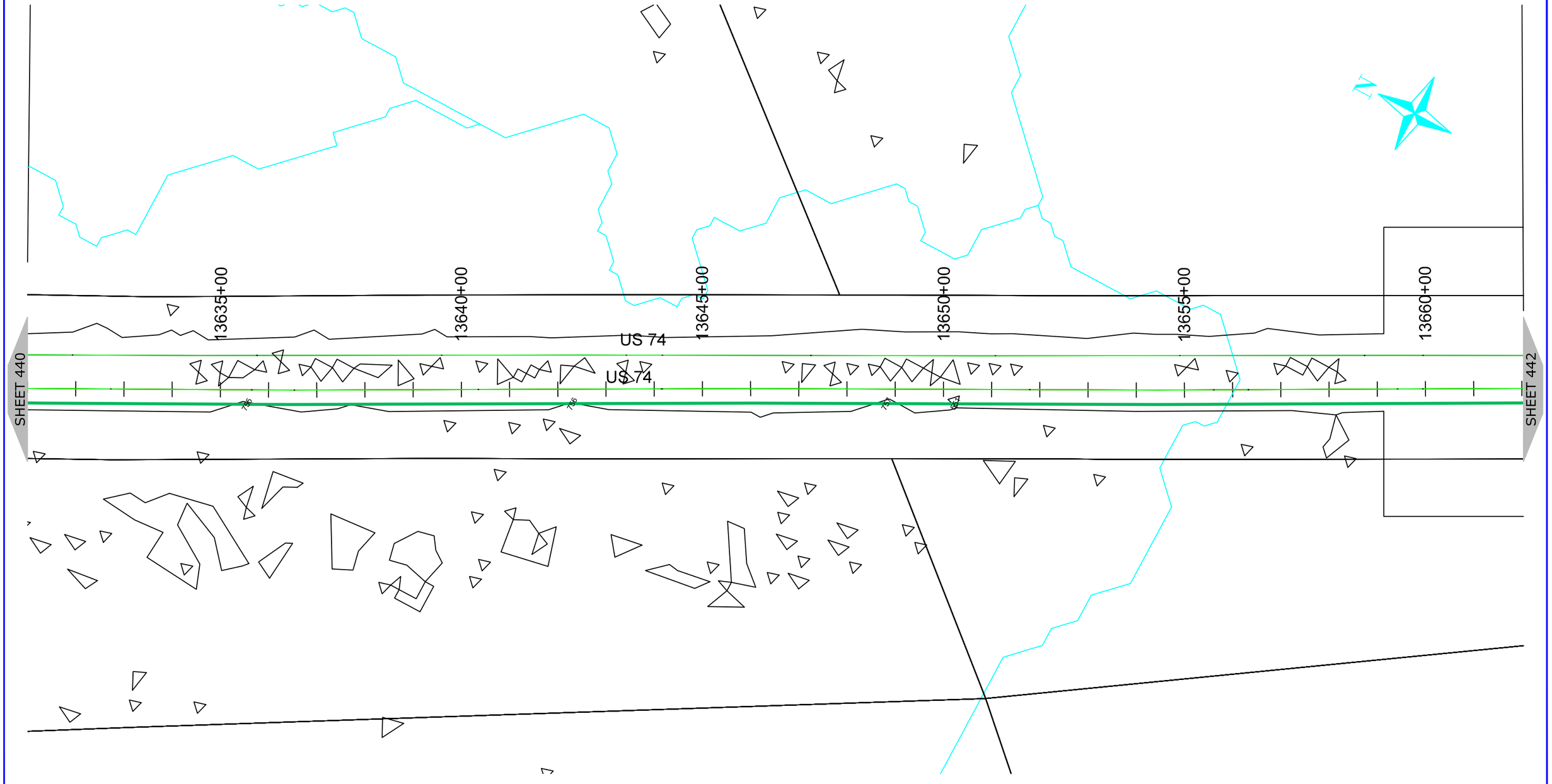
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DATE:	12-05-2021
SCALE:	1:200
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PROJECT NAME: US 74

SHEET NAME: 440

SHEET: 440

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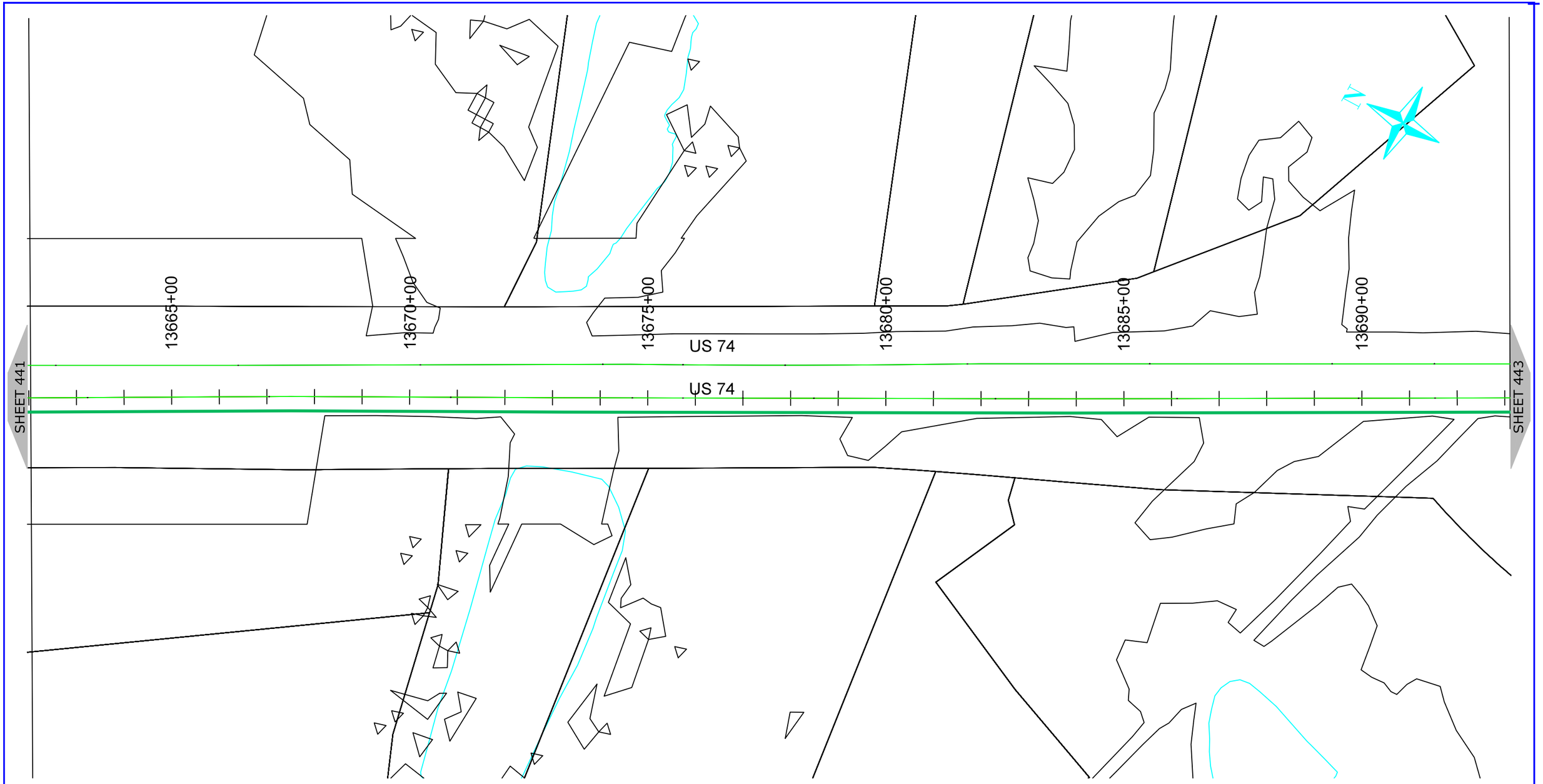
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PROJECT NAME: US 74

SHEET NAME: 441

SHEET: 441

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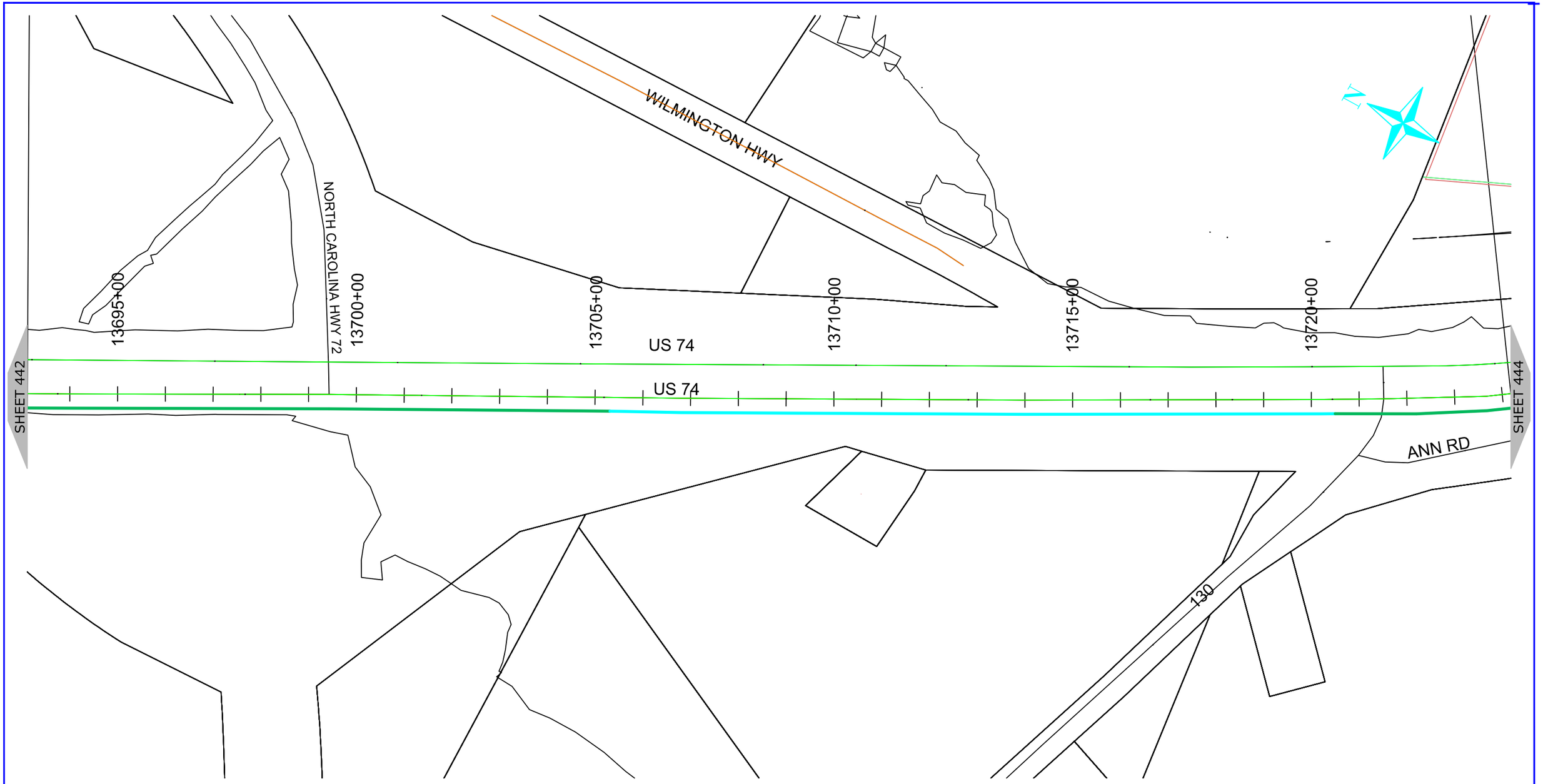
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 442

SHEET: 442

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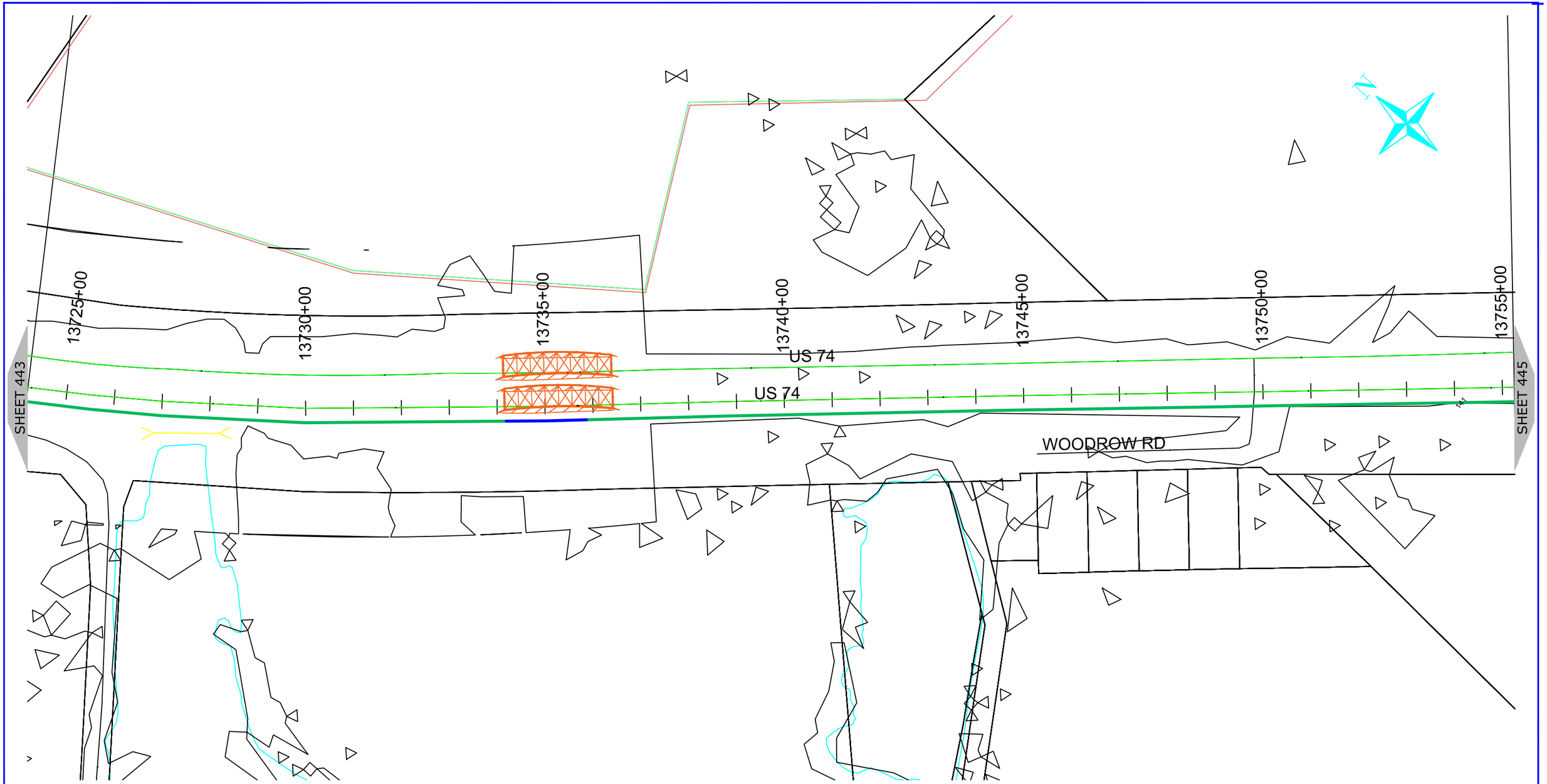
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 443

SHEET: 443

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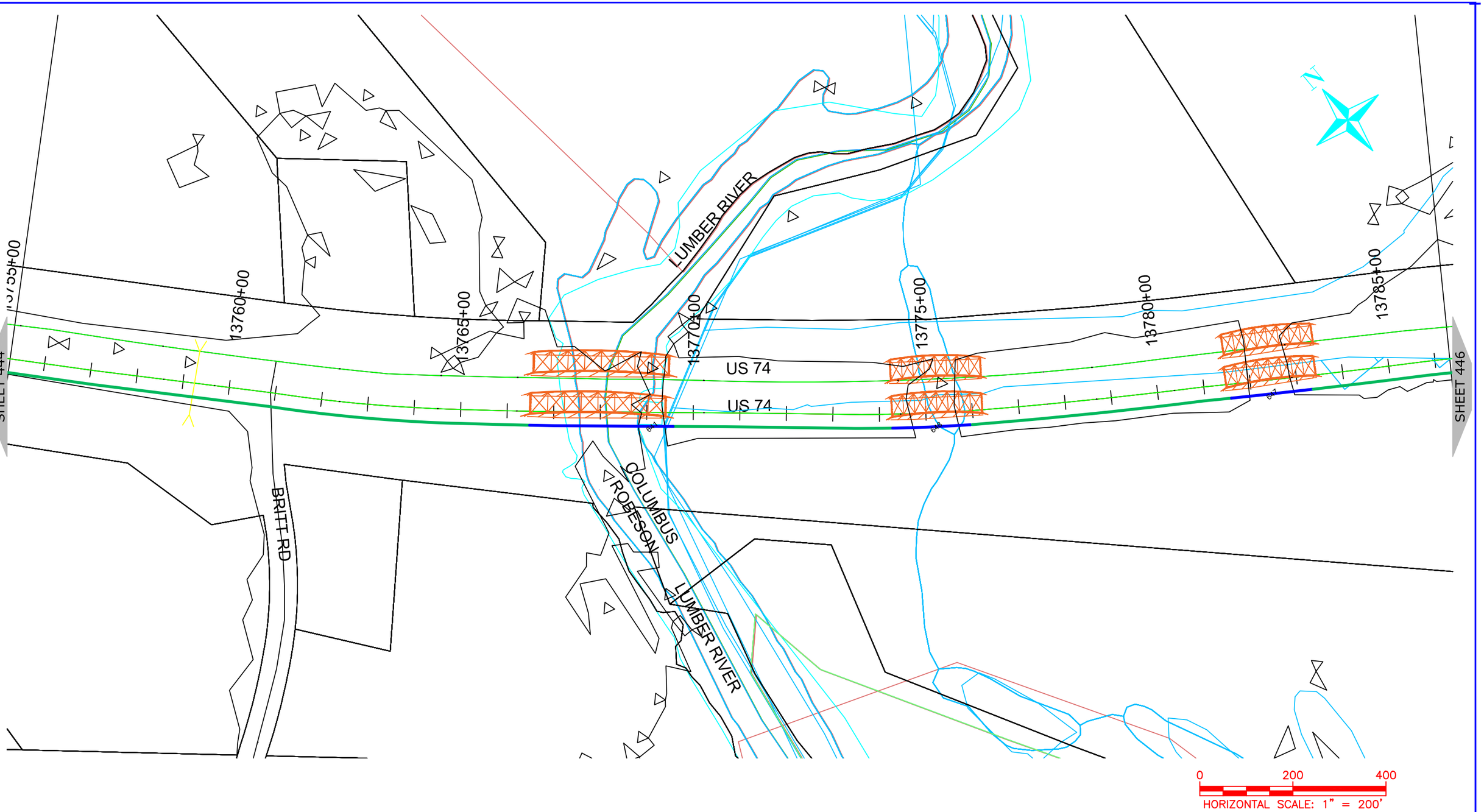
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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PROJECT NAME:
US 74

SHEET NAME:
444

SHEET:
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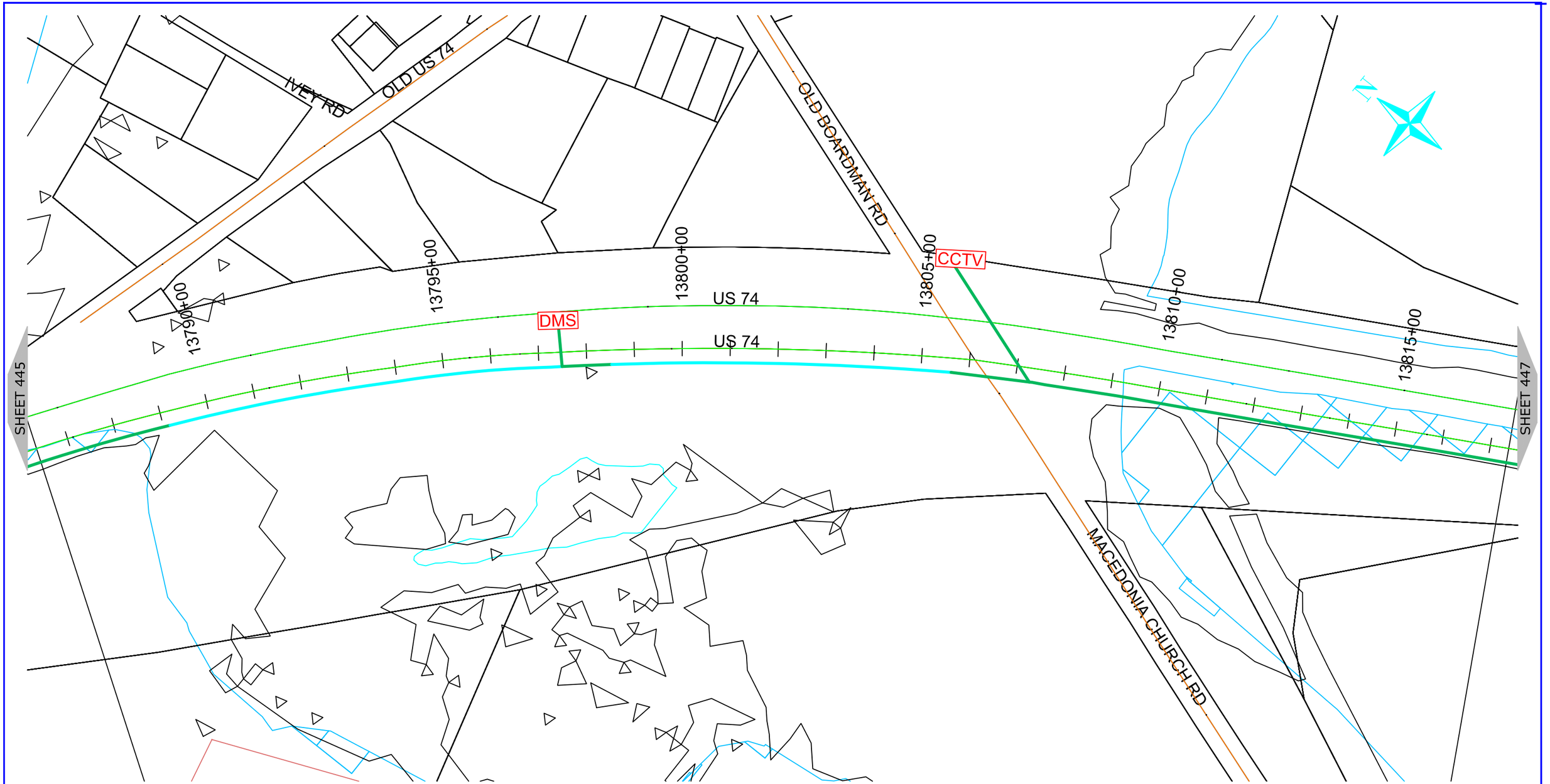
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SCALE:	1:200
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PROJECT NAME: US 74

SHEET NAME: 445

SHEET: 445

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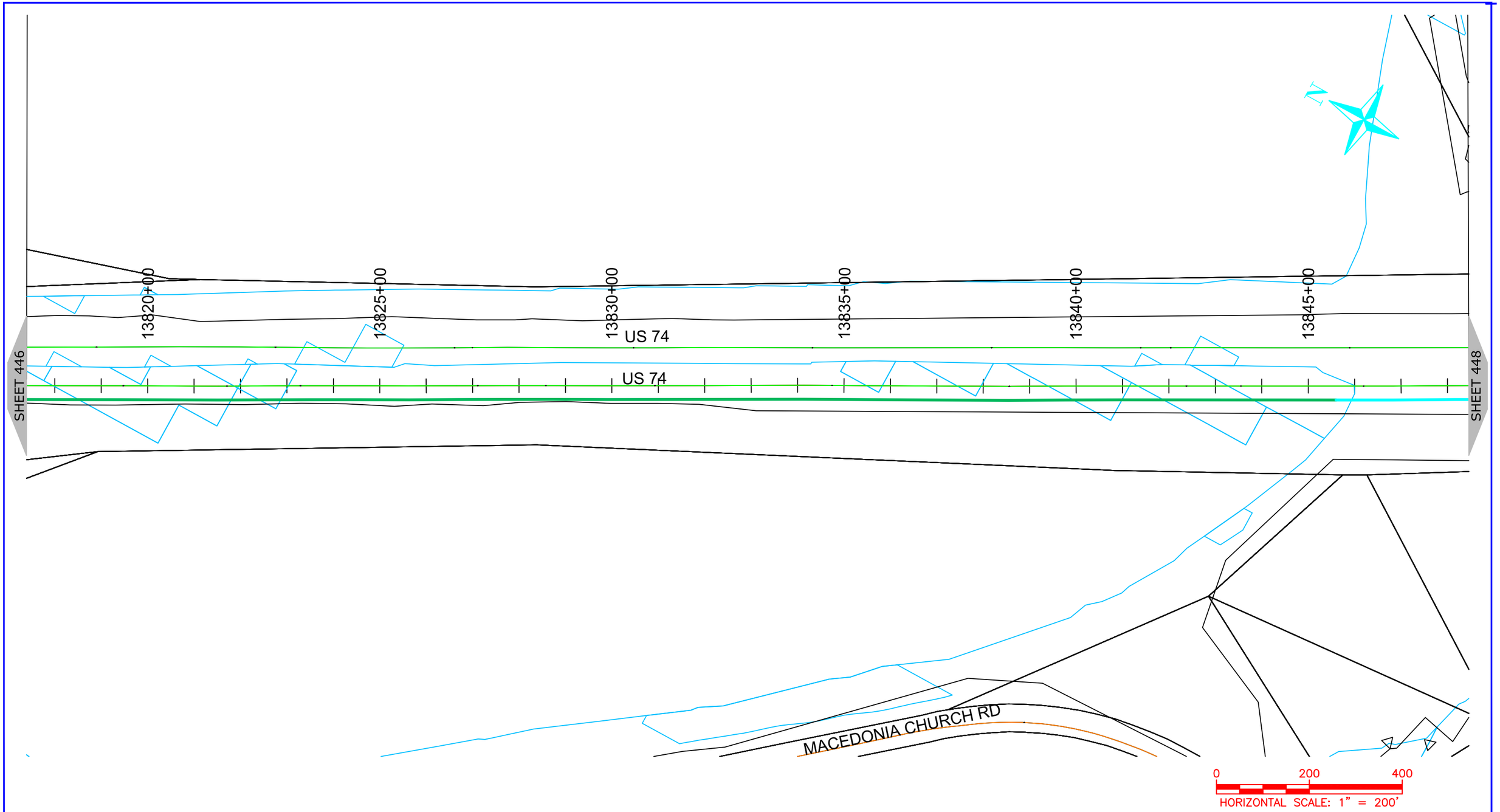
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PROJECT NAME: US 74

SHEET NAME: 446

SHEET: 446

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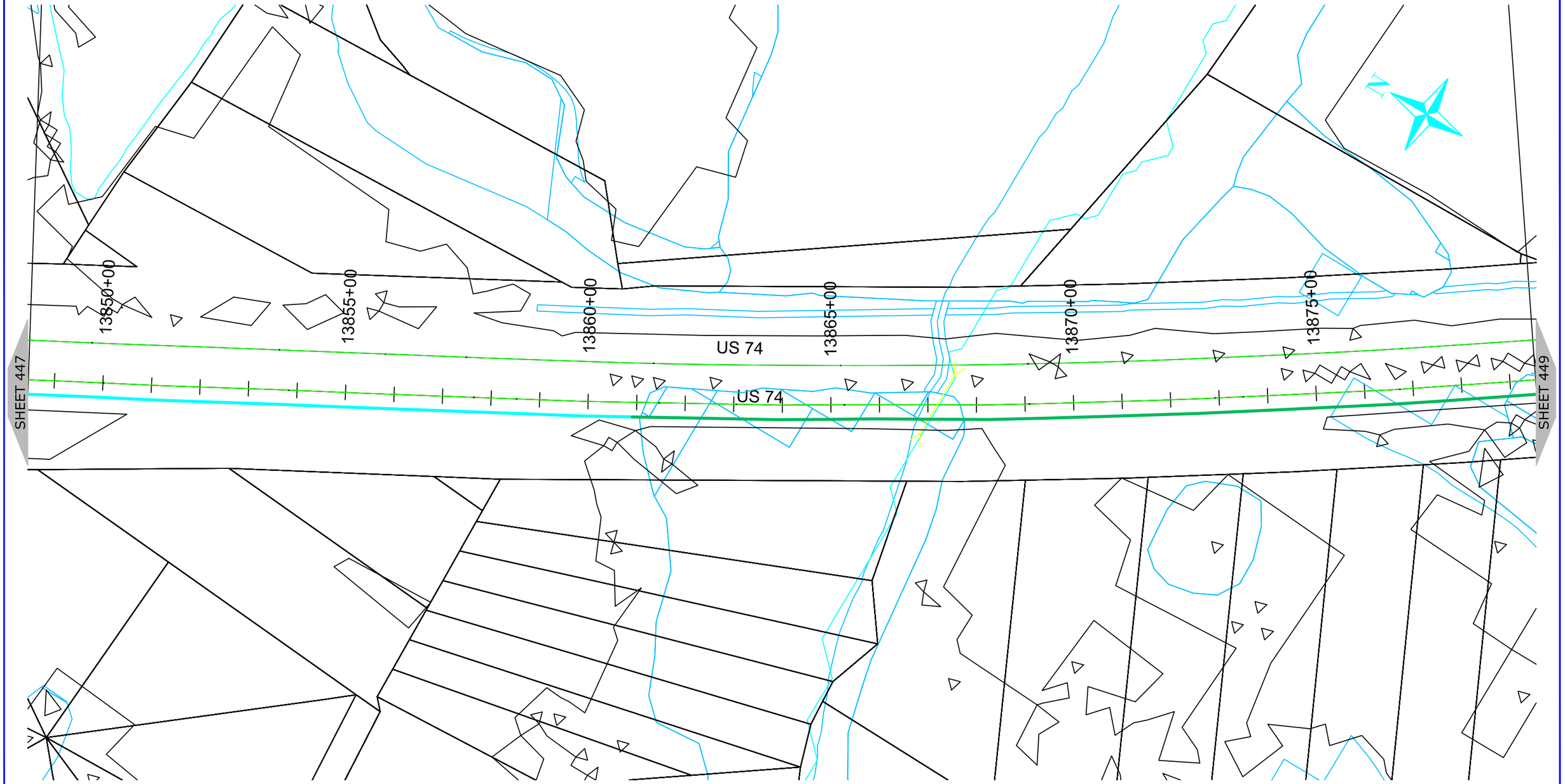
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PROJECT NAME: US 74

SHEET NAME: 447

SHEET: 447

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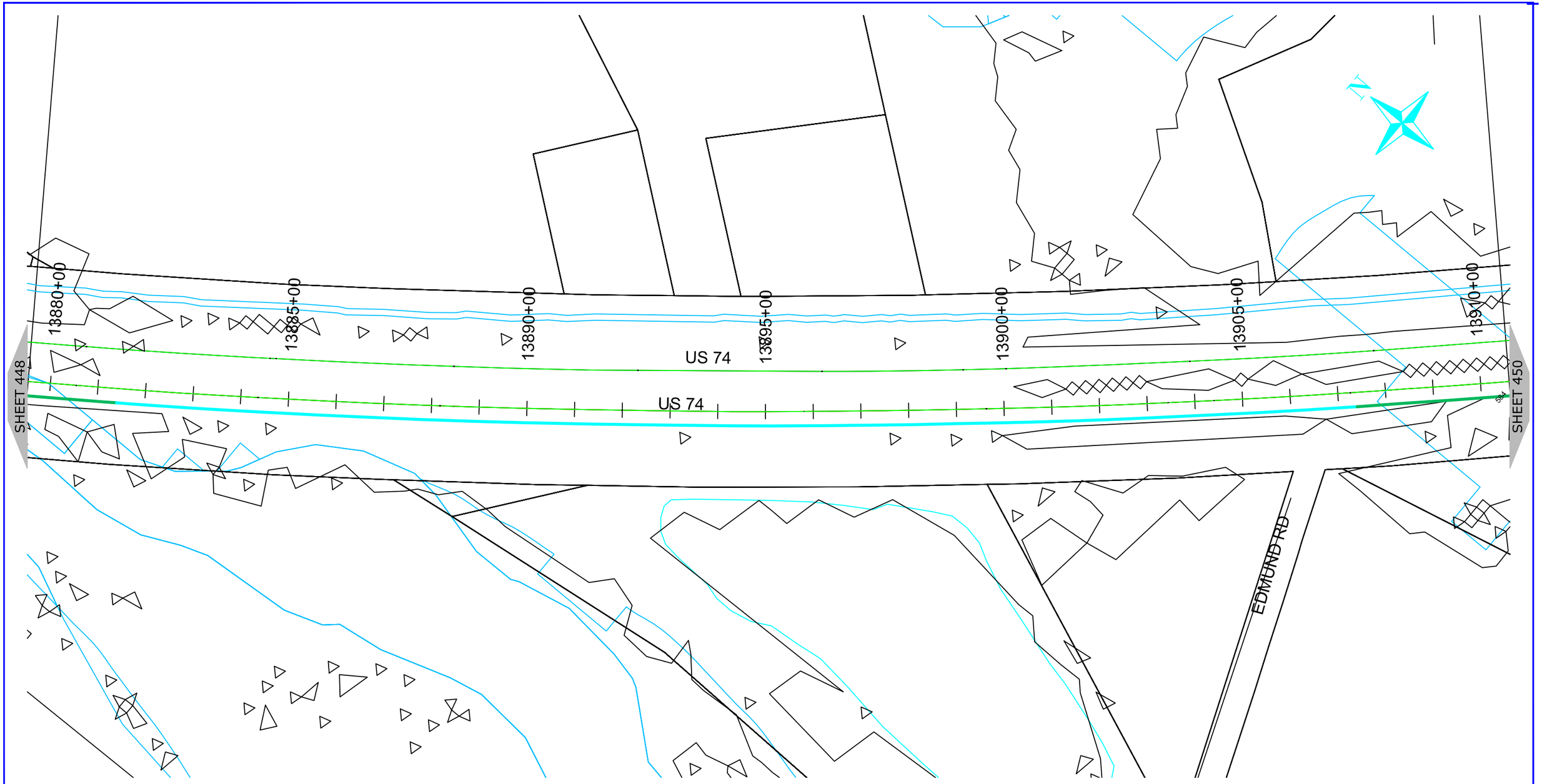
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PROJECT NAME: US 74

SHEET NAME: 448

SHEET: 448

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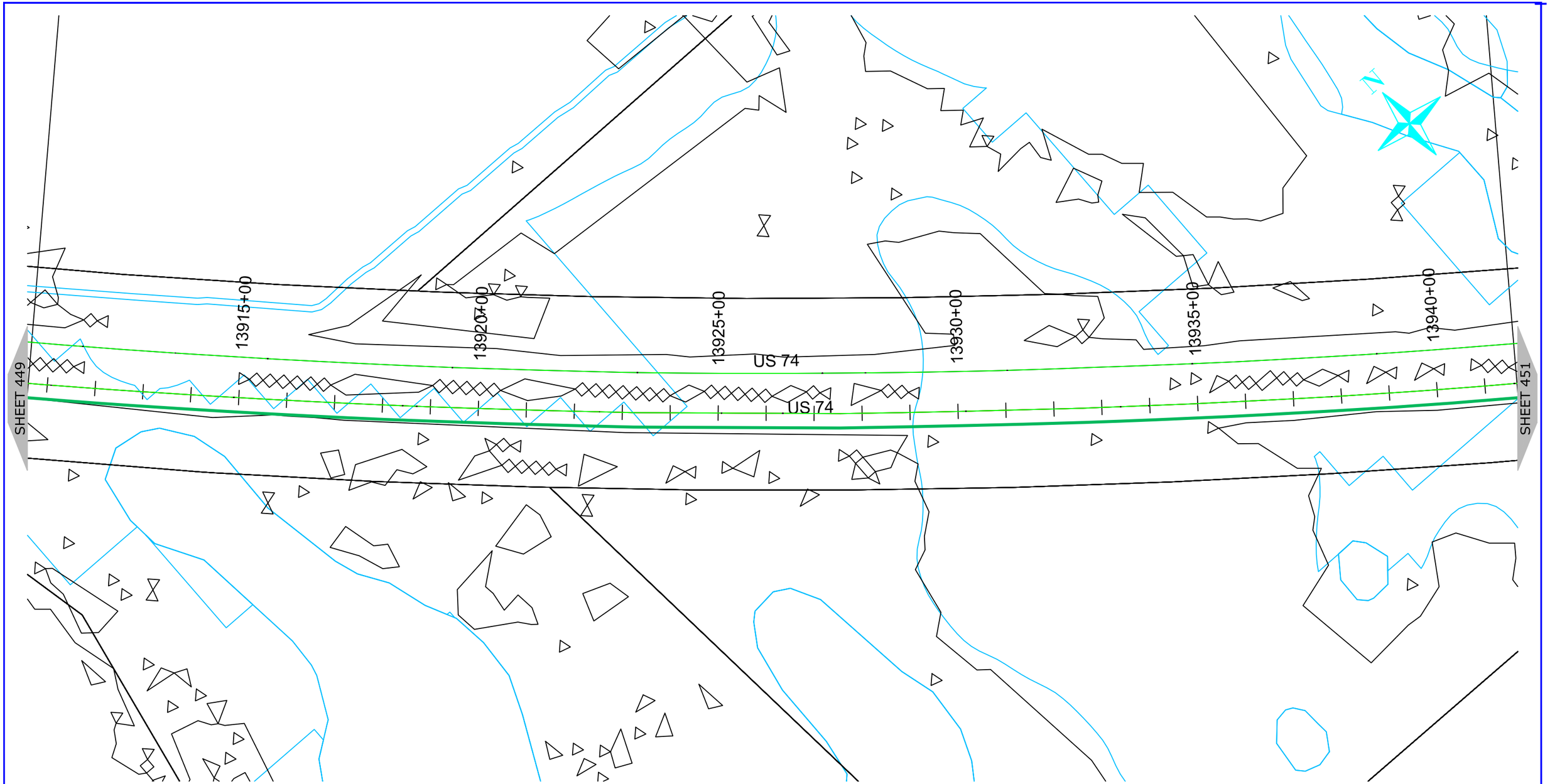
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 449

SHEET: 449

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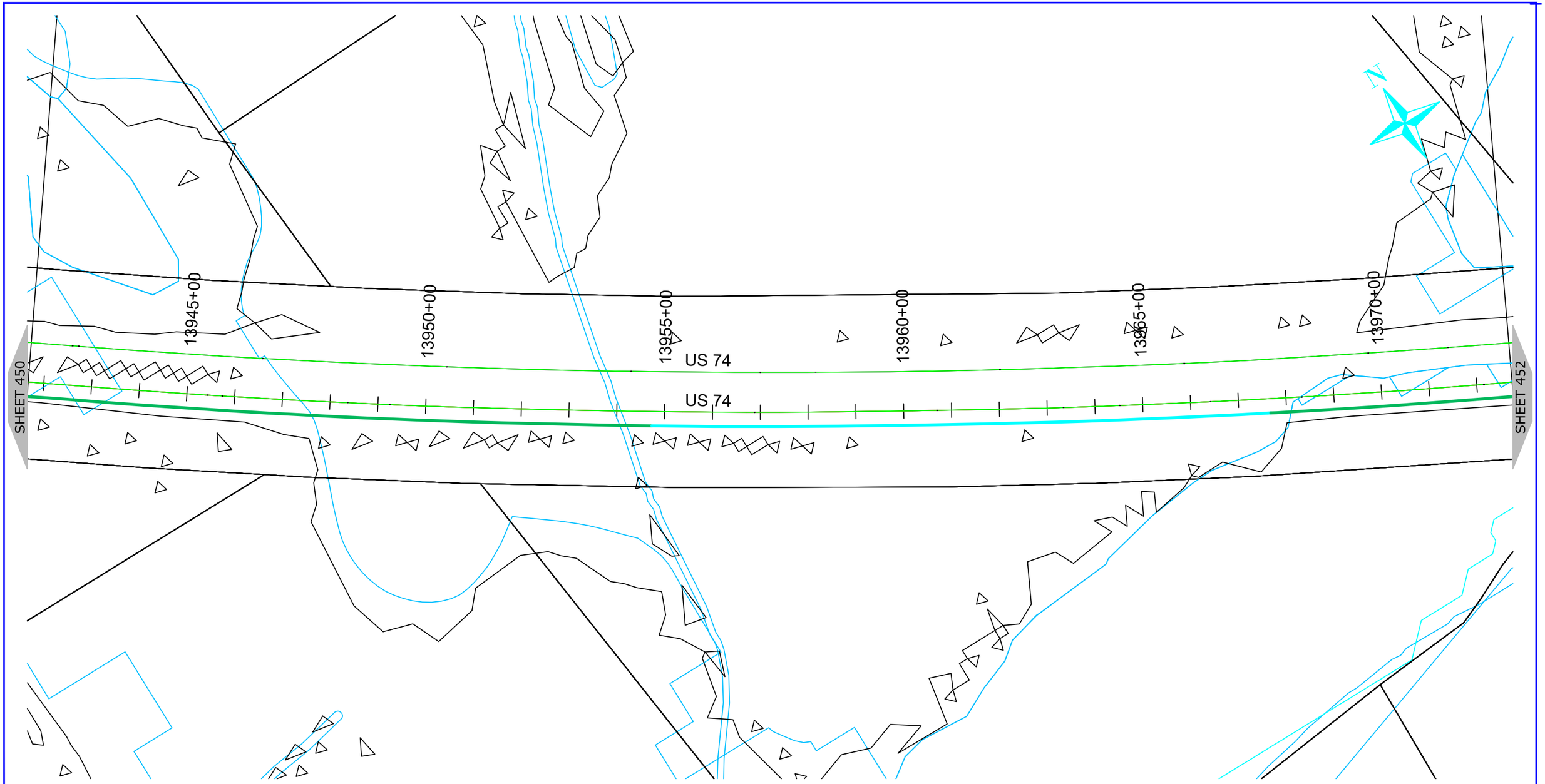
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SCALE:	1:200
DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 450

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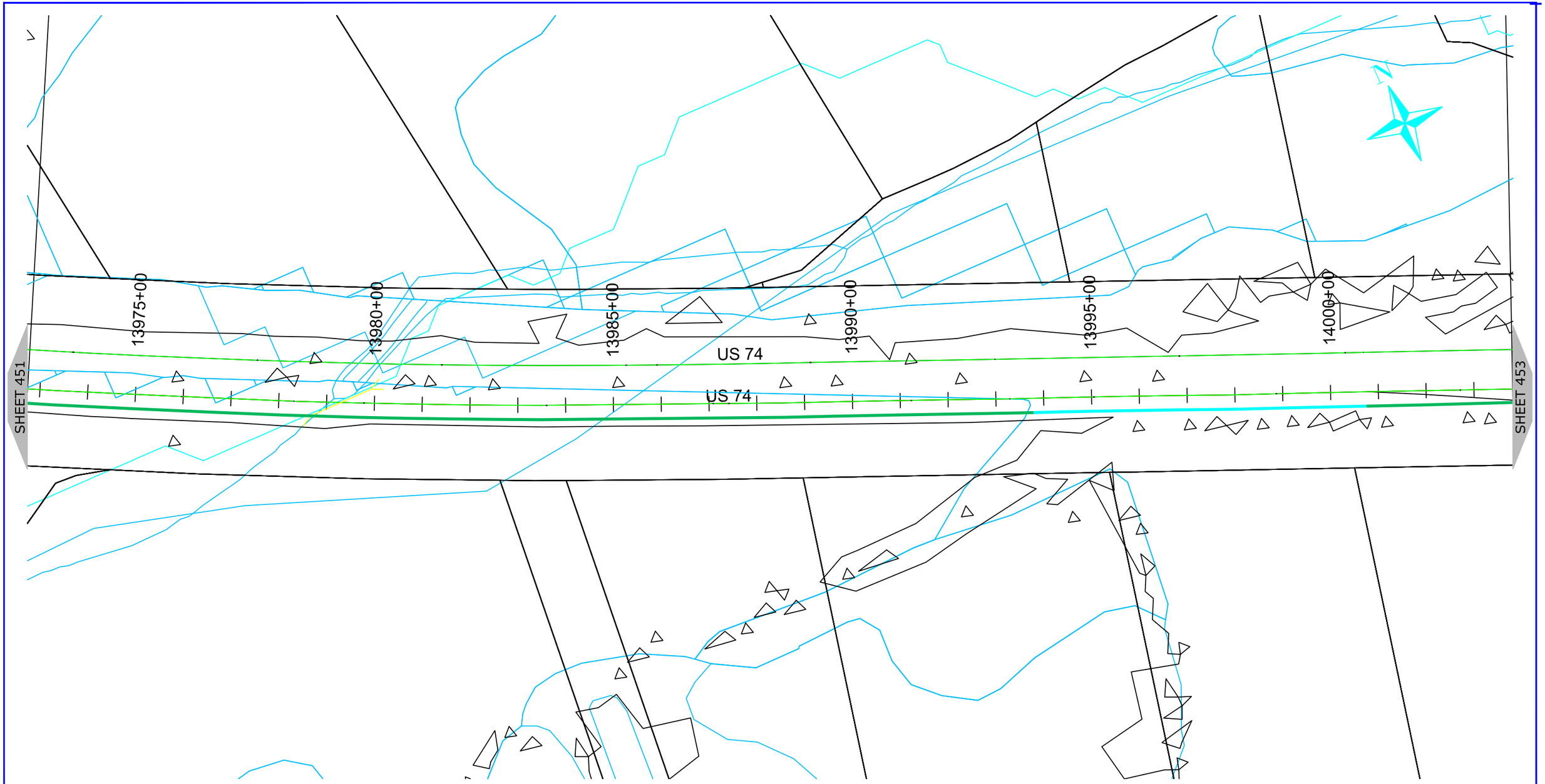
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 451

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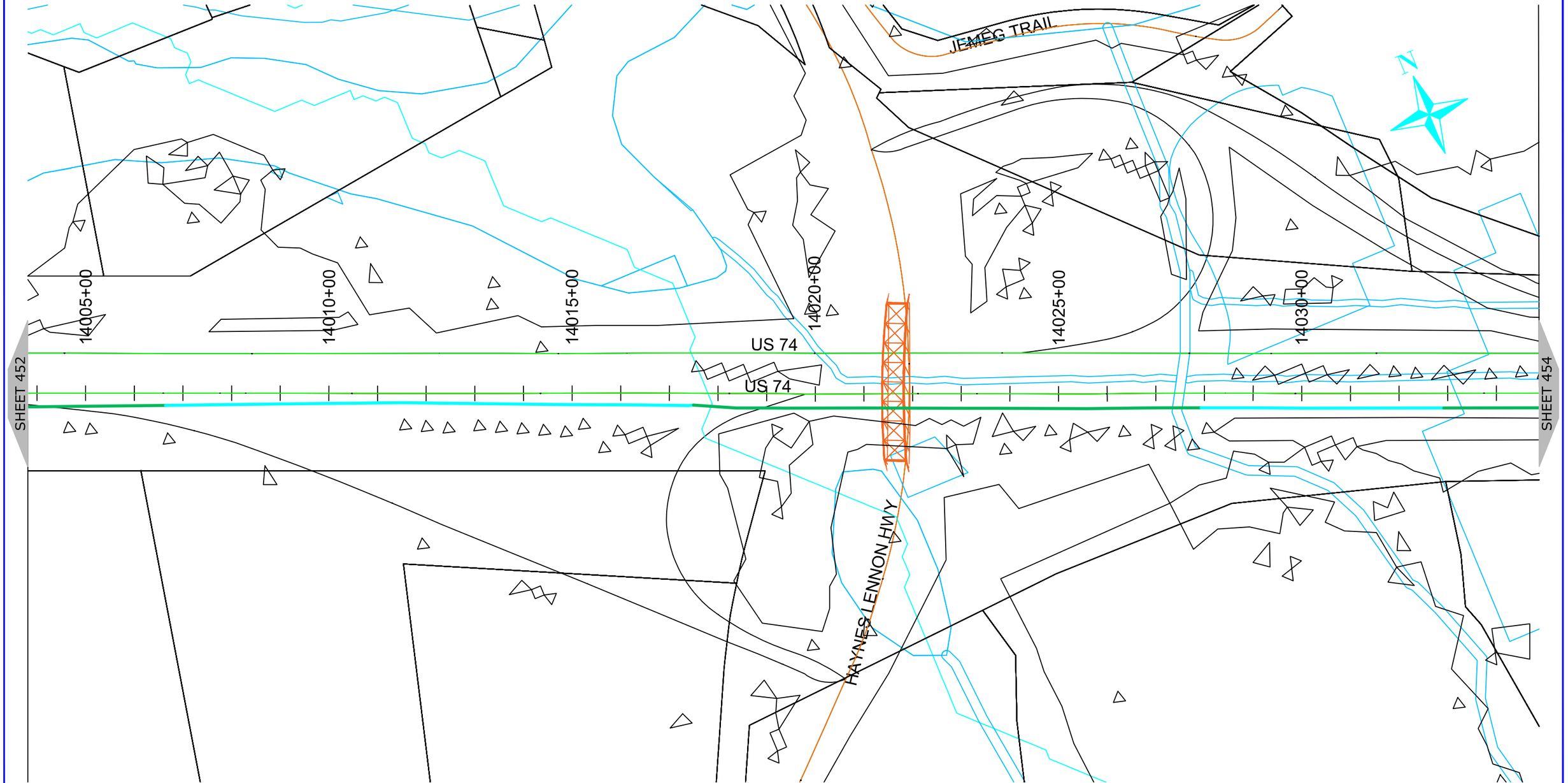
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 452

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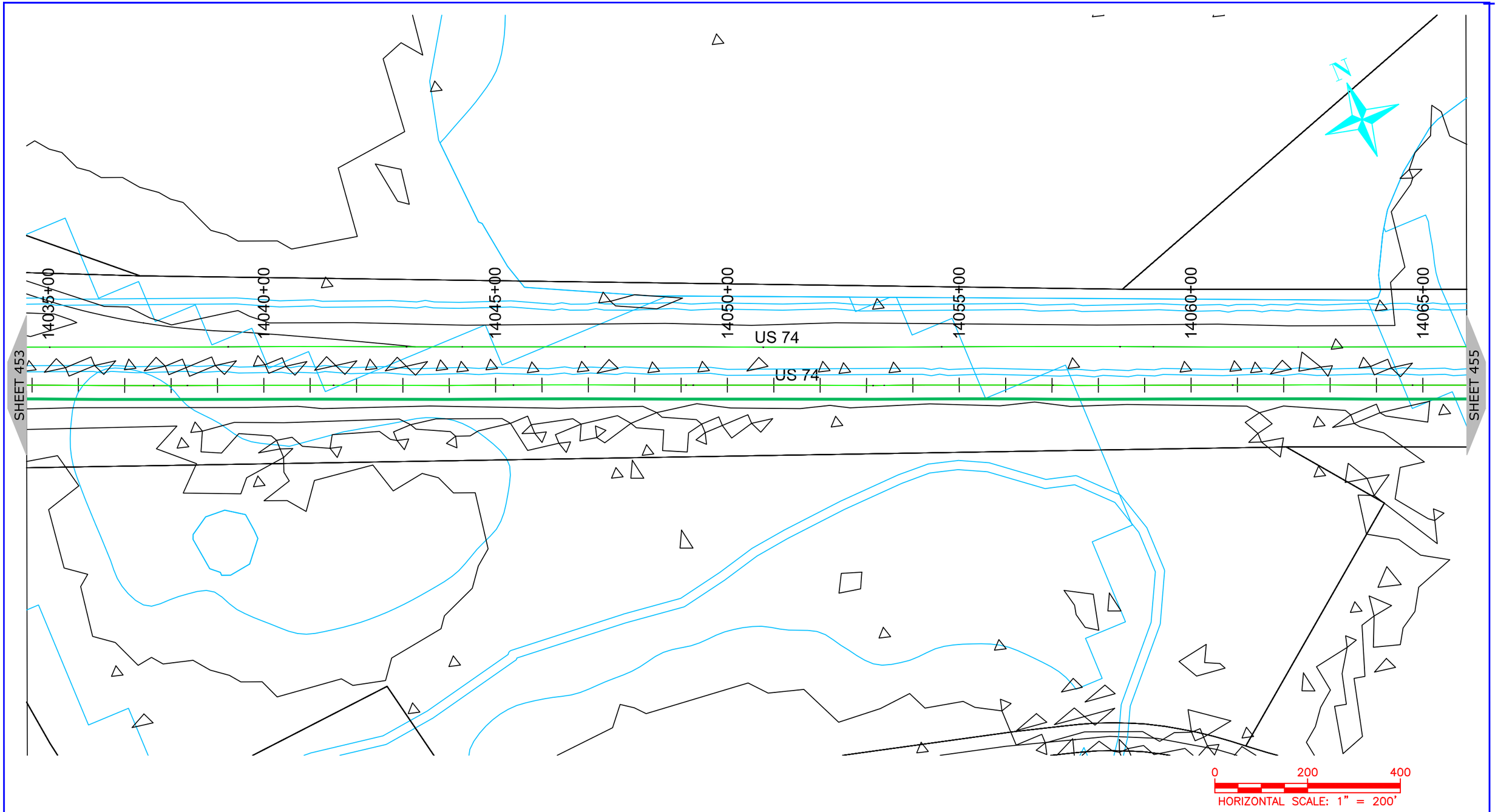
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APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 453

SHEET: 453

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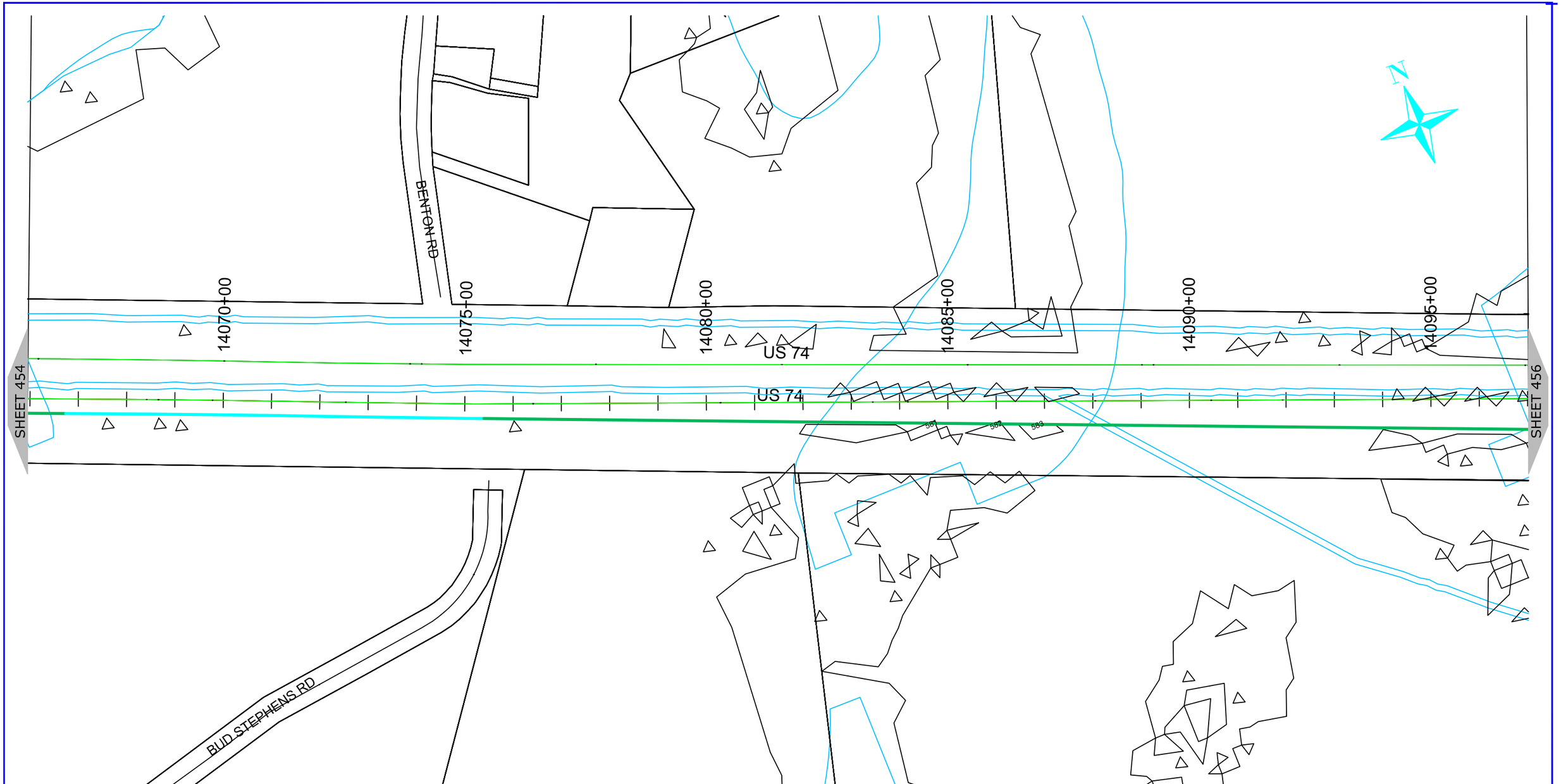
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 454

SHEET: 454

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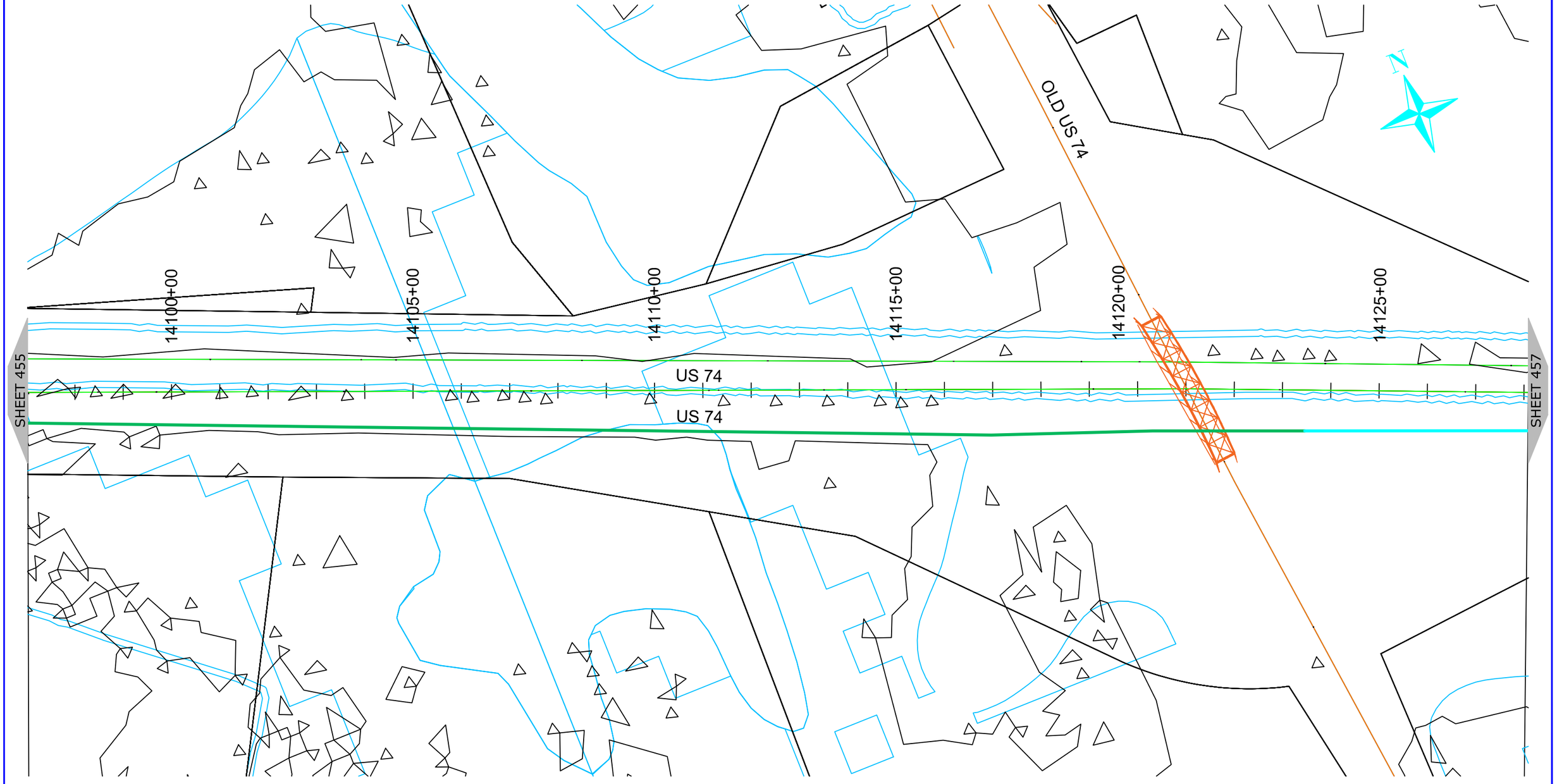
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 455

SHEET: 455

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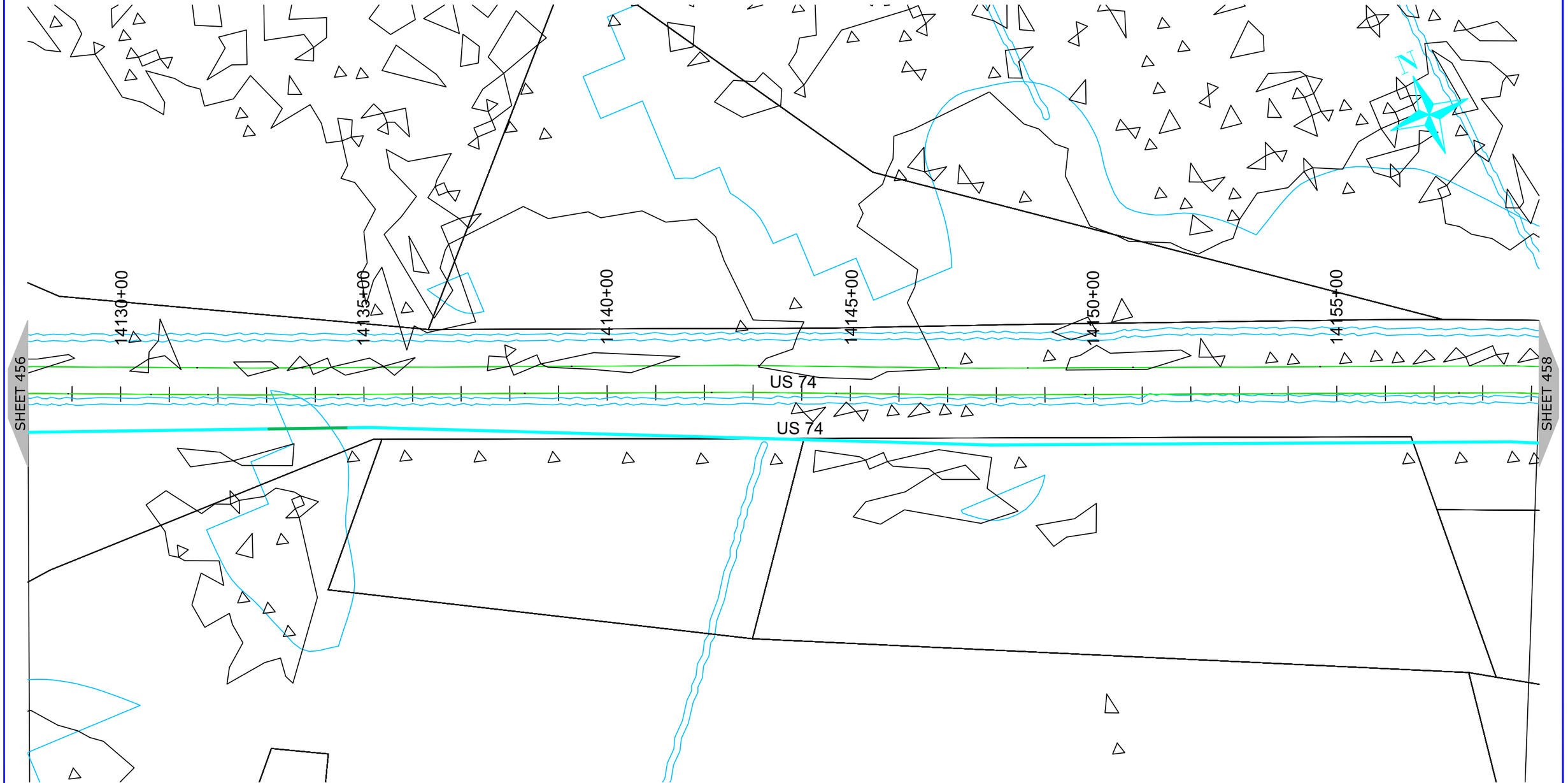
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 456

SHEET: 456

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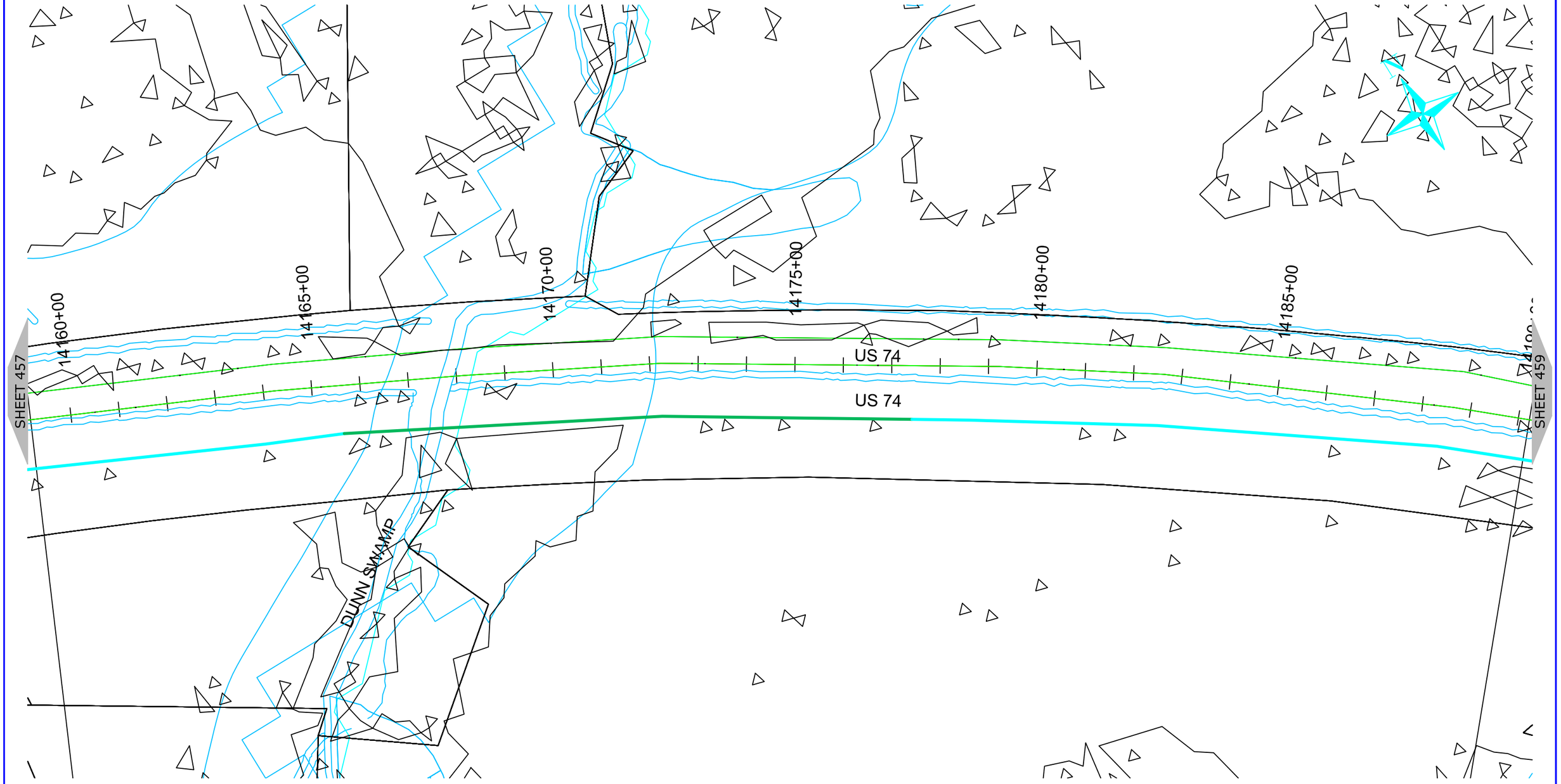
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 457

SHEET: 457

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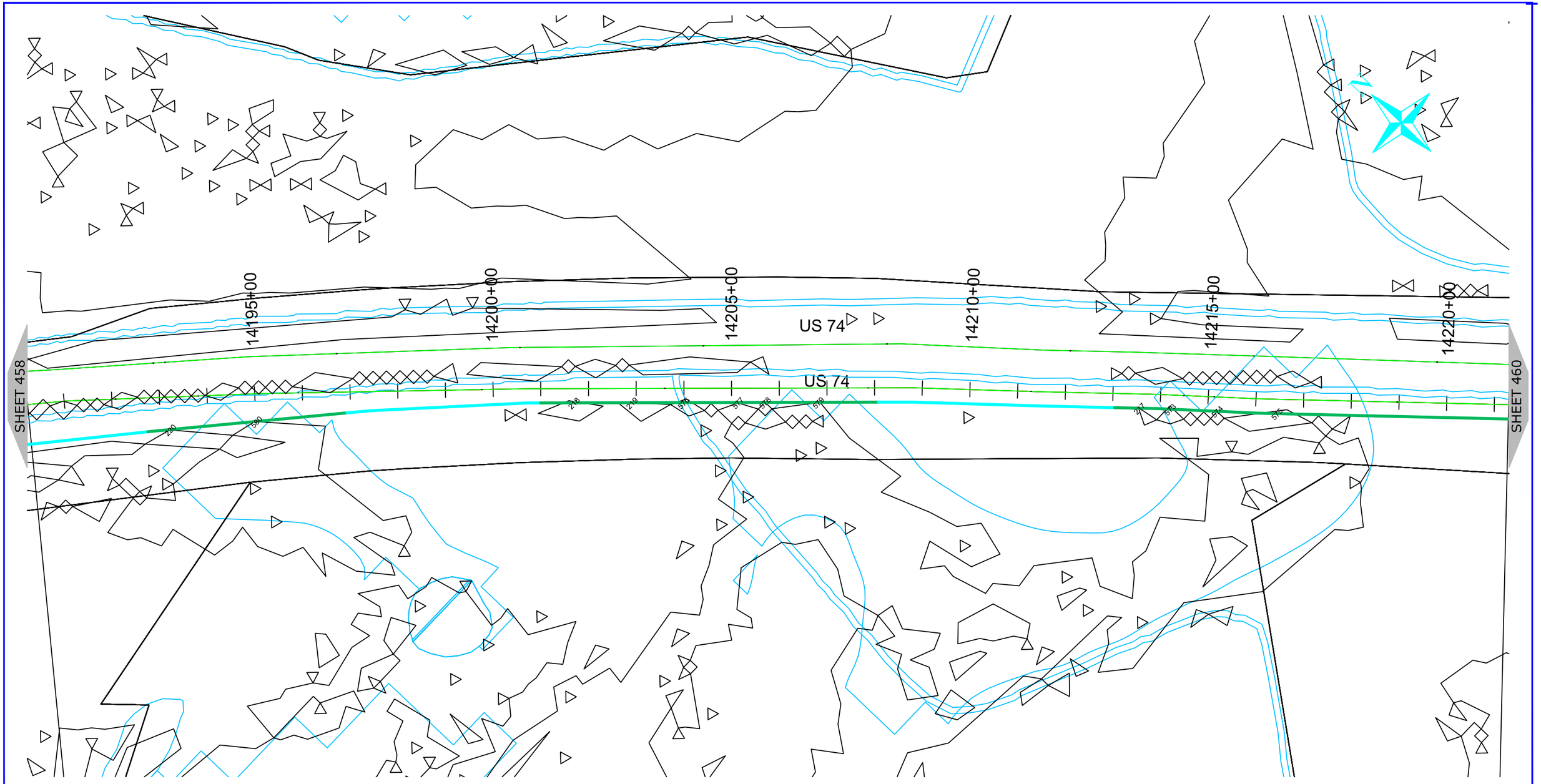
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DATE:	12-05-2021
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DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 458

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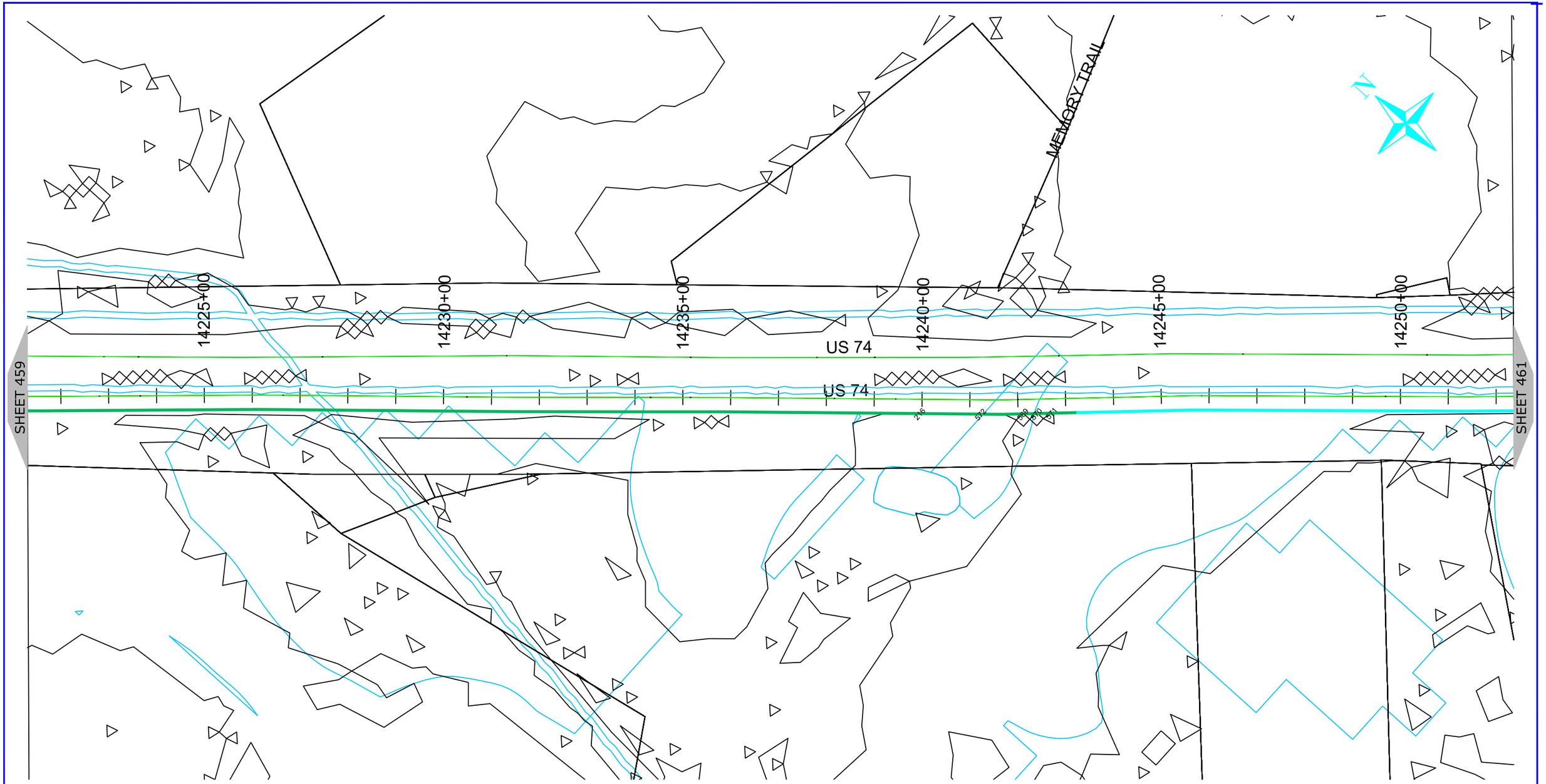
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PROJECT NAME: US 74

SHEET NAME: 459

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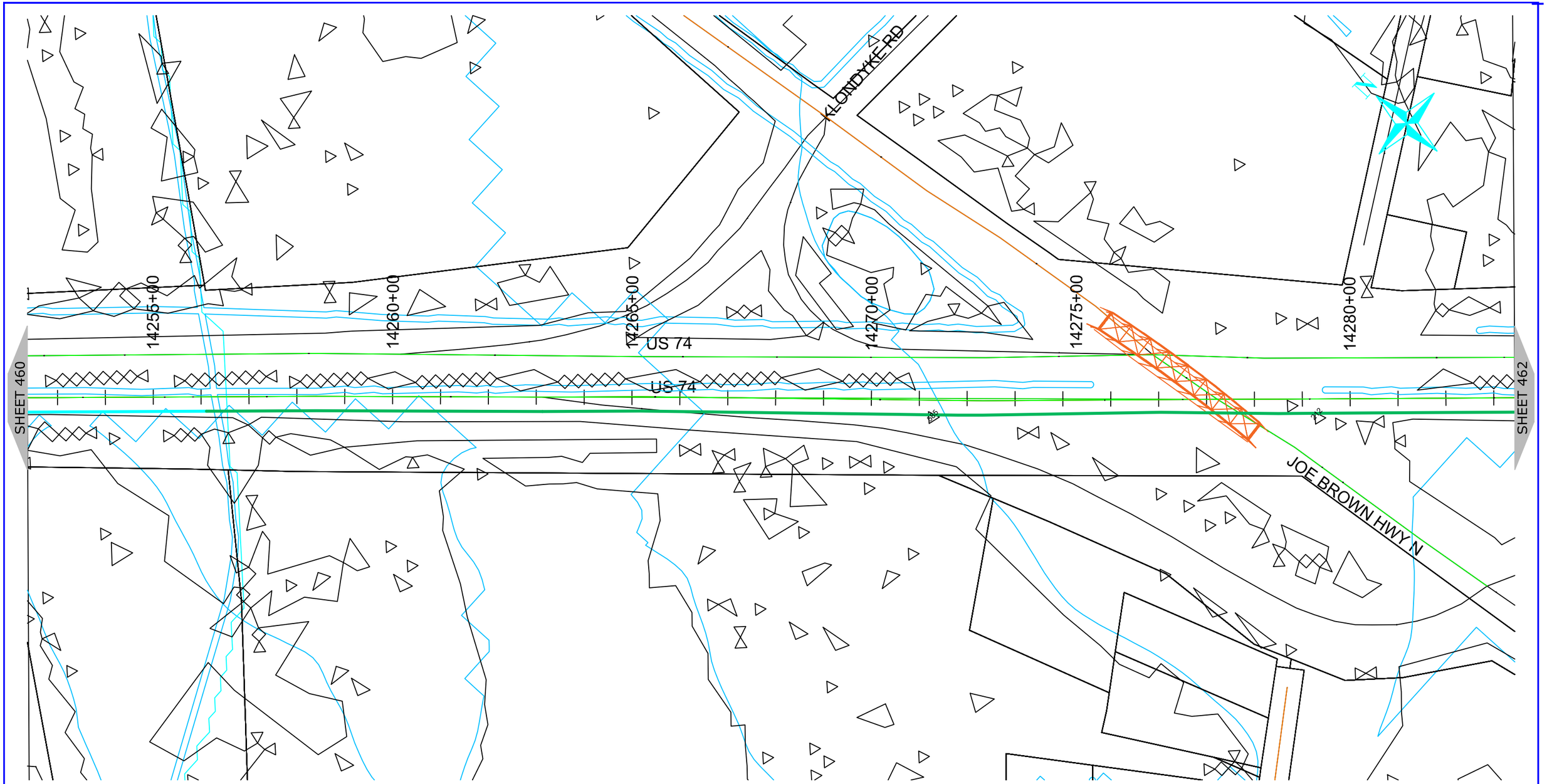
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PROJECT NAME: US 74

SHEET NAME: 460

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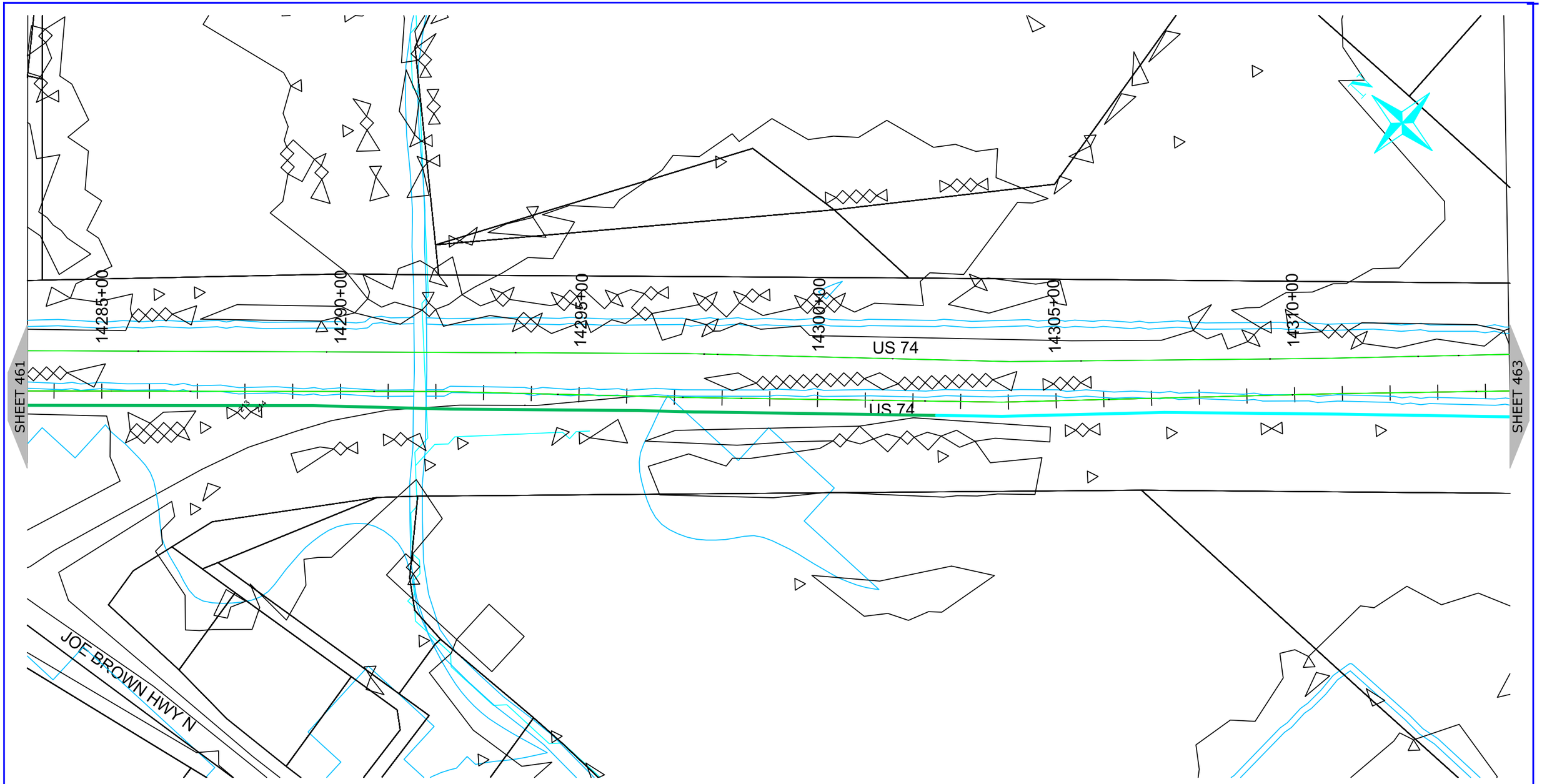
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PROJECT NAME:
US 74

SHEET NAME:
461

SHEET:
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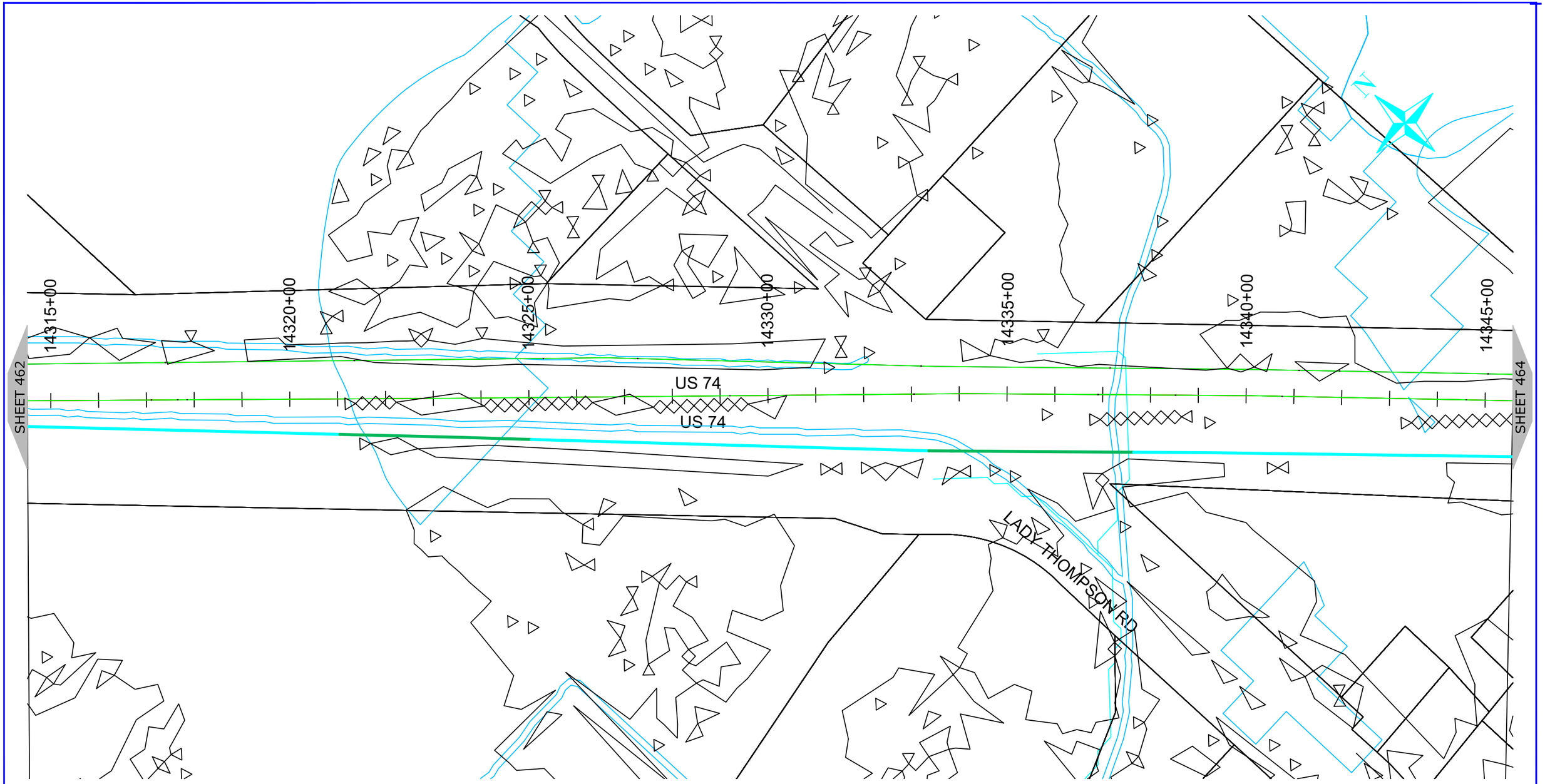
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PROJECT NAME: US 74

SHEET NAME: 462

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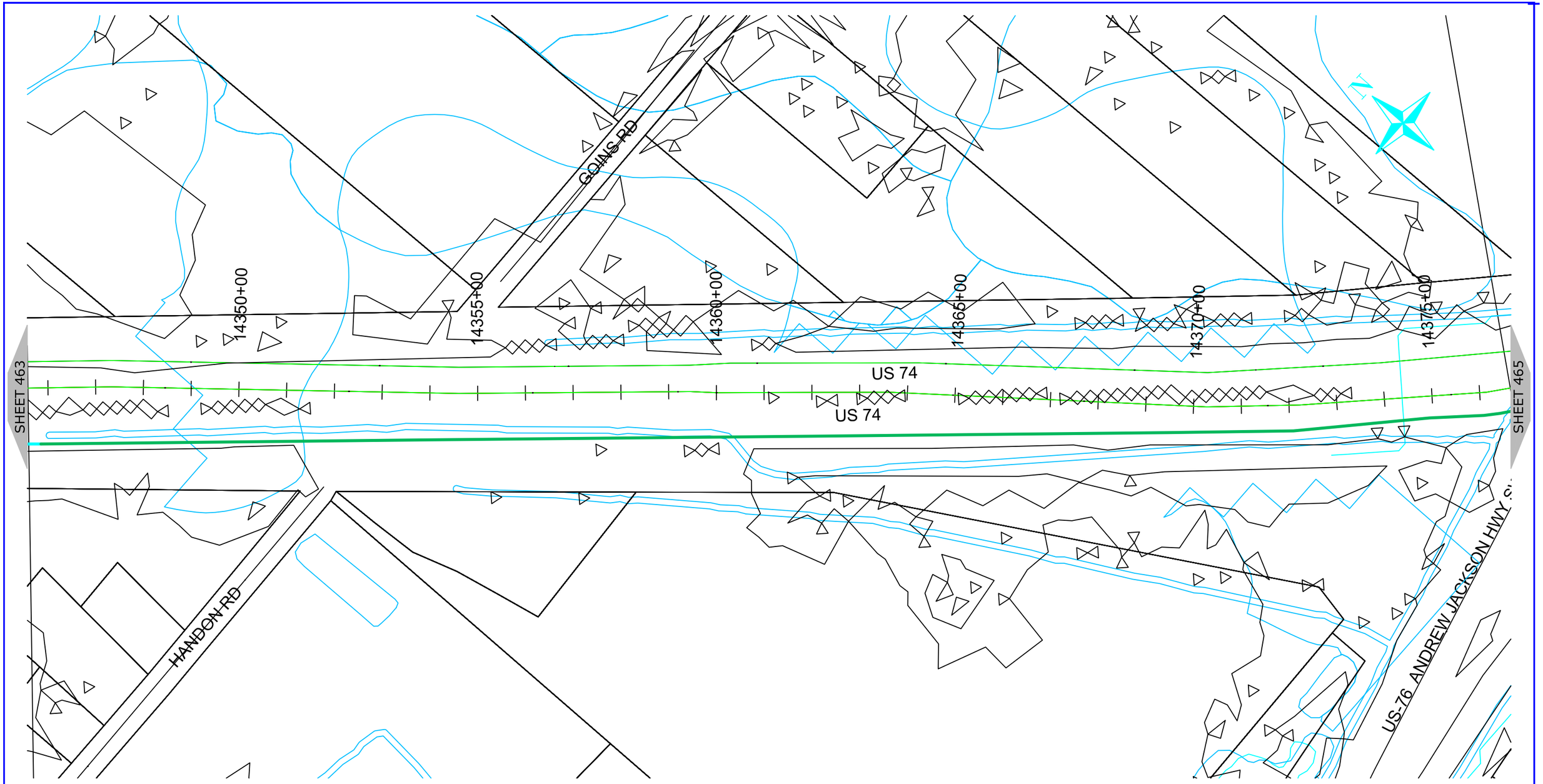
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PROJECT NAME: US 74

SHEET NAME: 463

SHEET: 463

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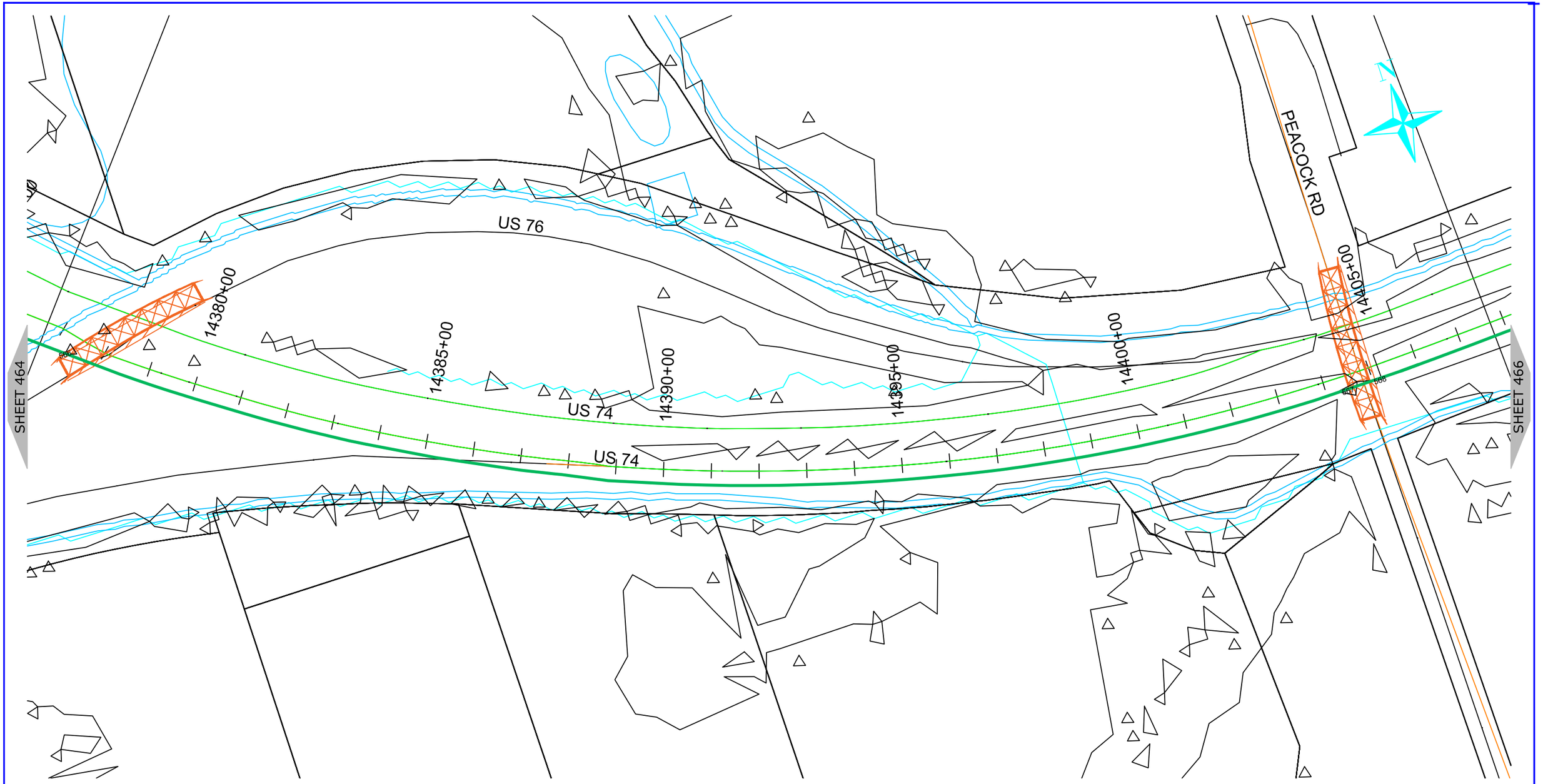
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PROJECT NAME: US 74

SHEET NAME: 464

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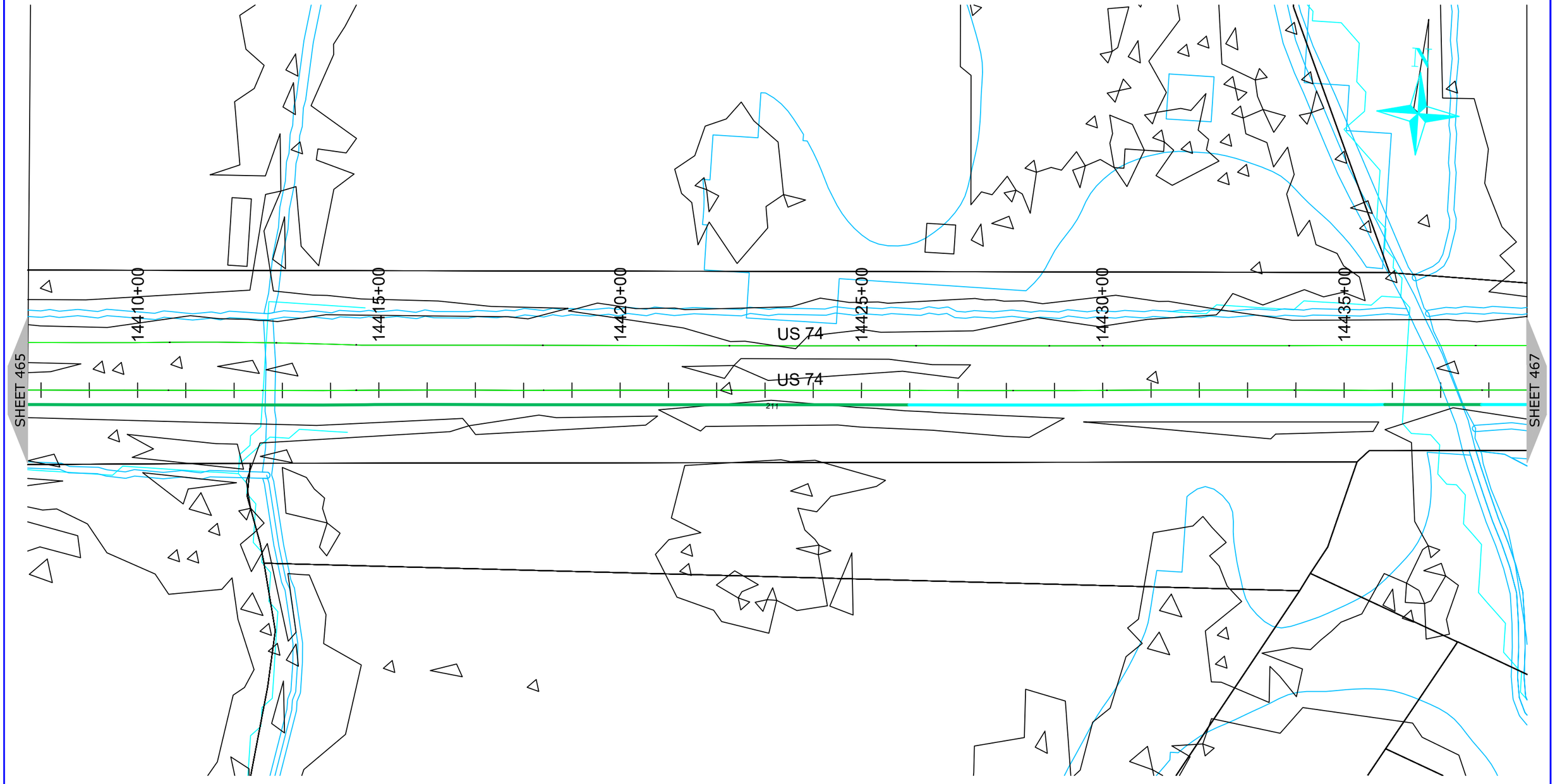
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 465

SHEET: 465

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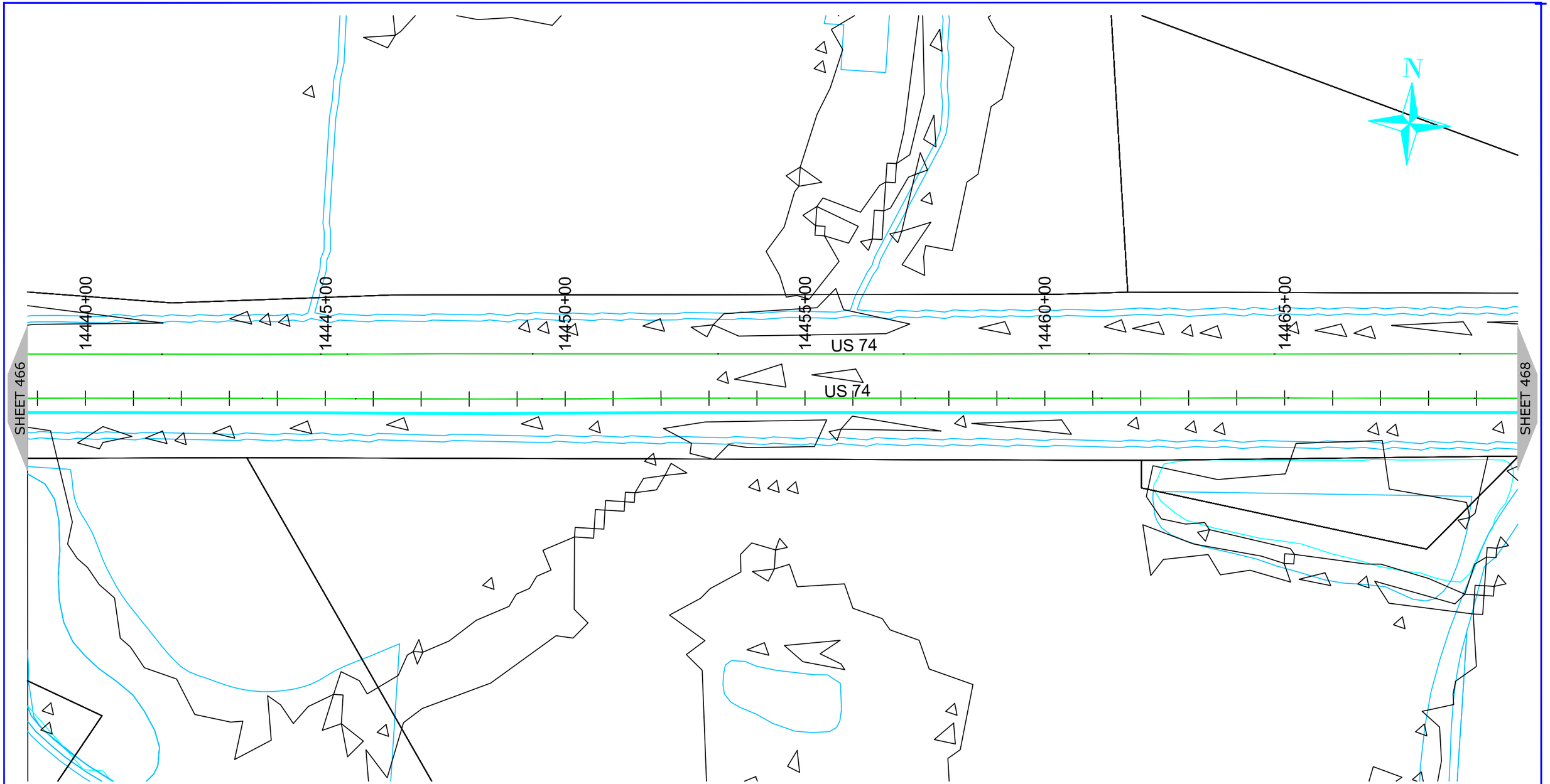
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME:
US 74

SHEET NAME:
466

SHEET:
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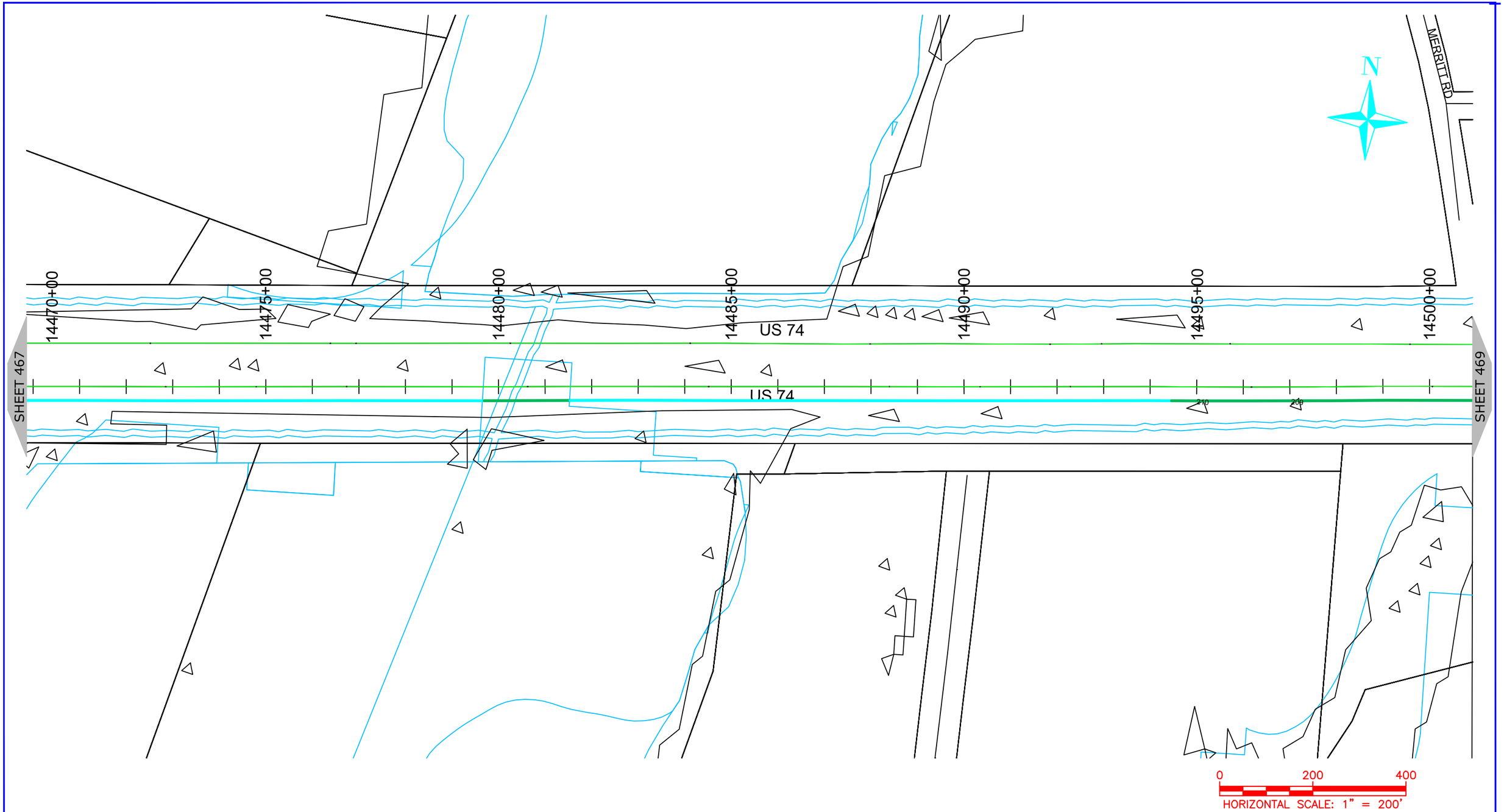
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PROJECT NAME: US 74

SHEET NAME: 467

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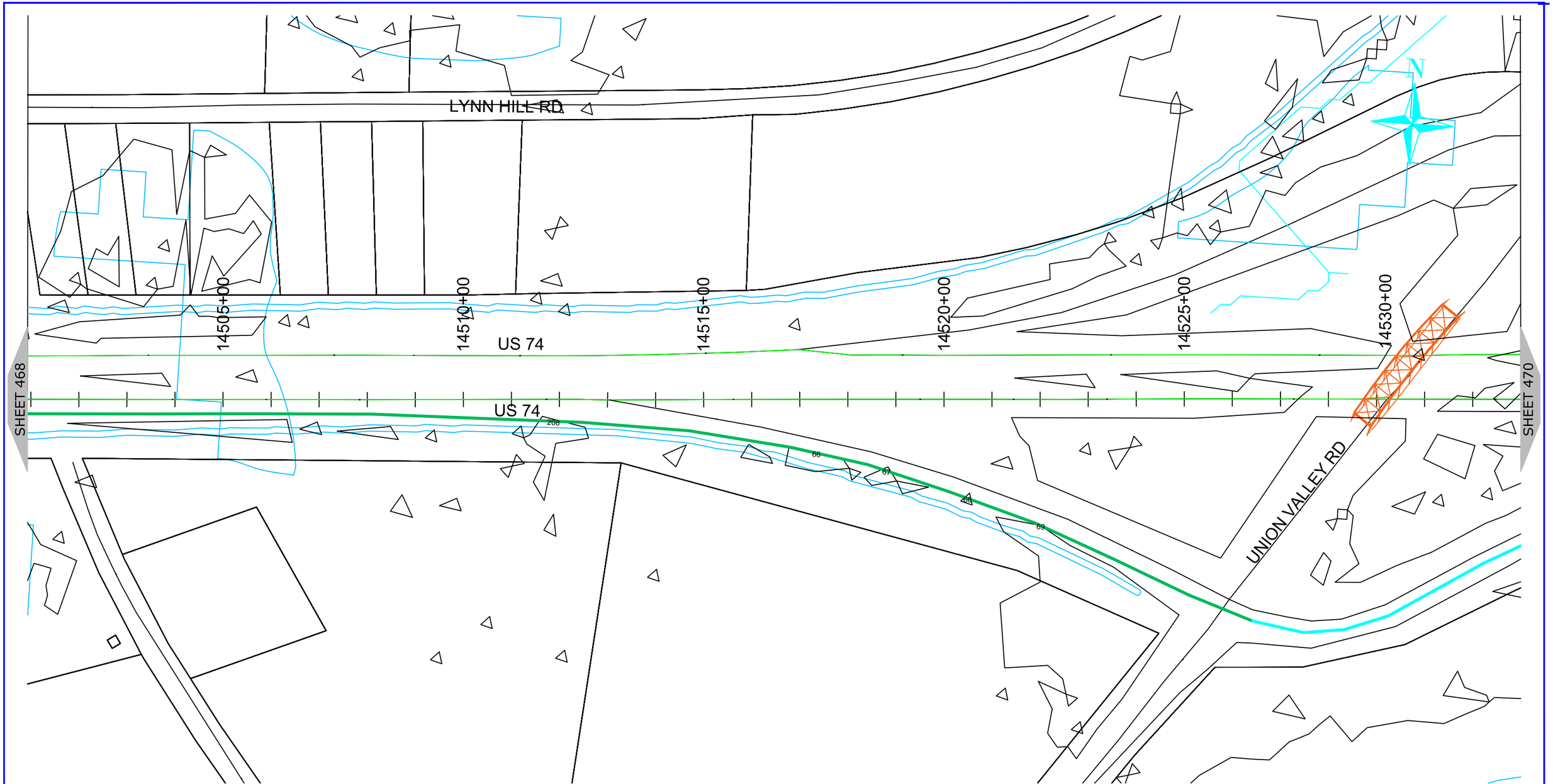
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PROJECT NAME: US 74

SHEET NAME: 468

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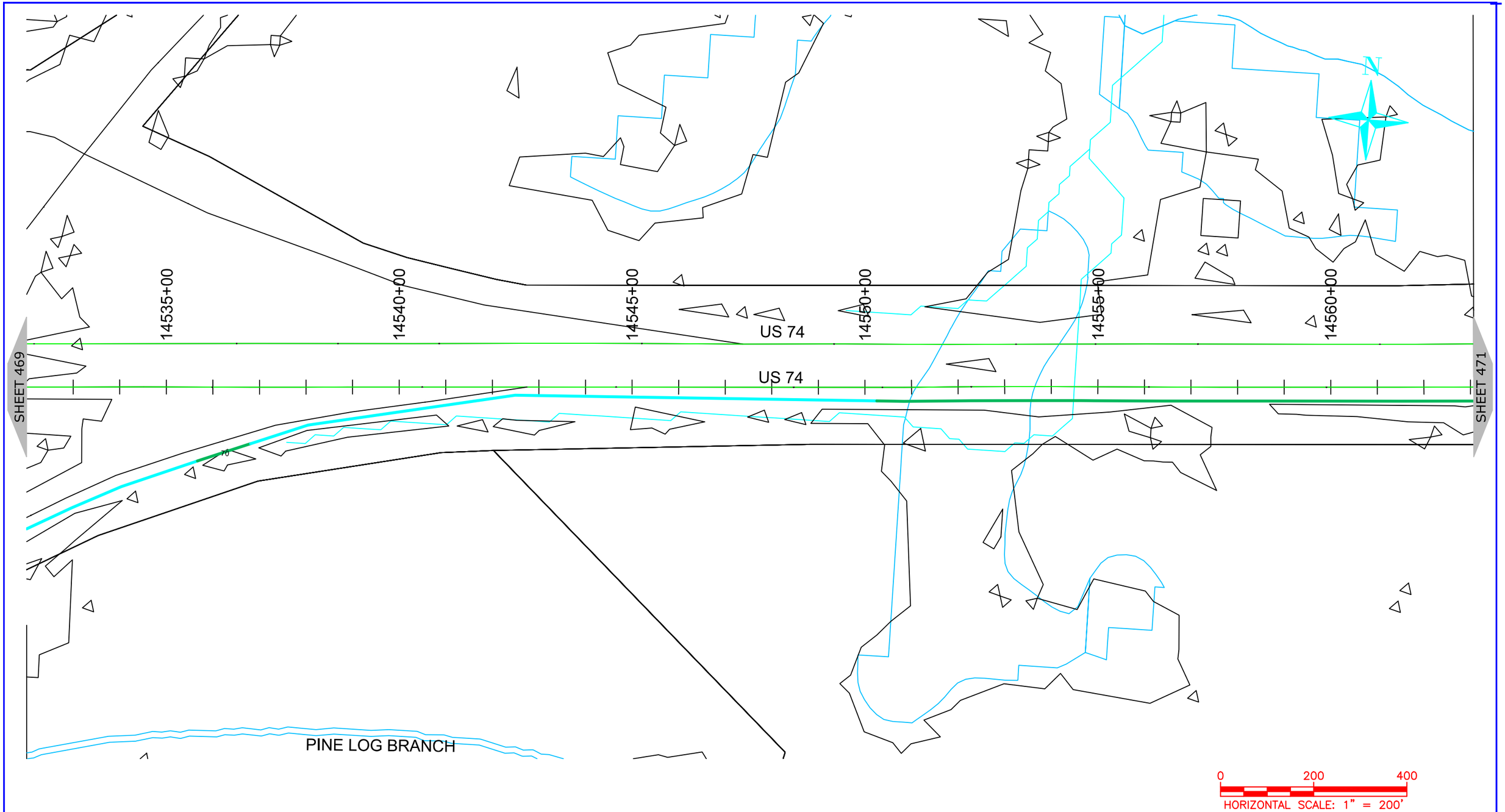
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PROJECT NAME: US 74

SHEET NAME: 469

SHEET: 469

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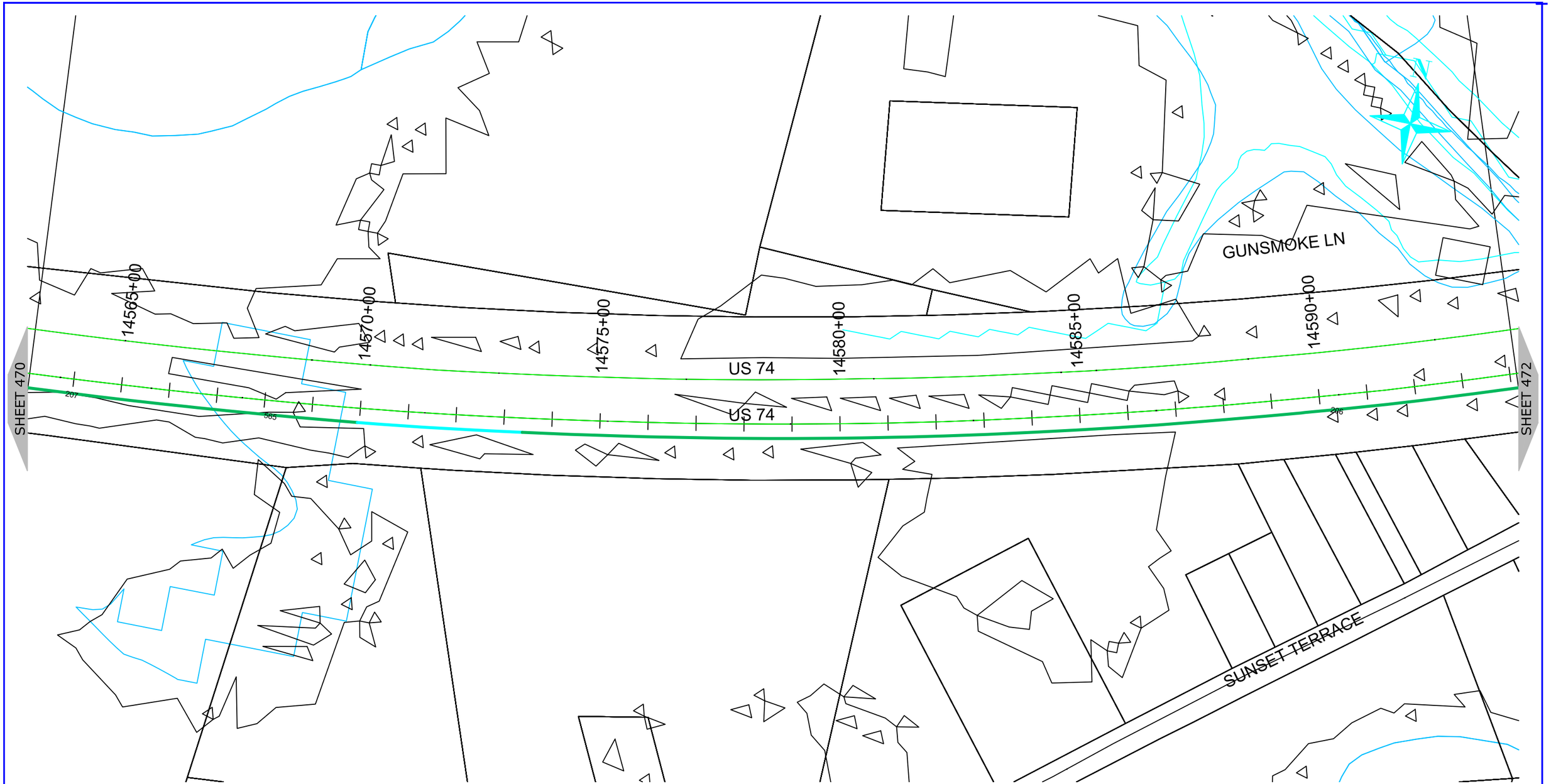
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PROJECT NAME: US 74

SHEET NAME: 470

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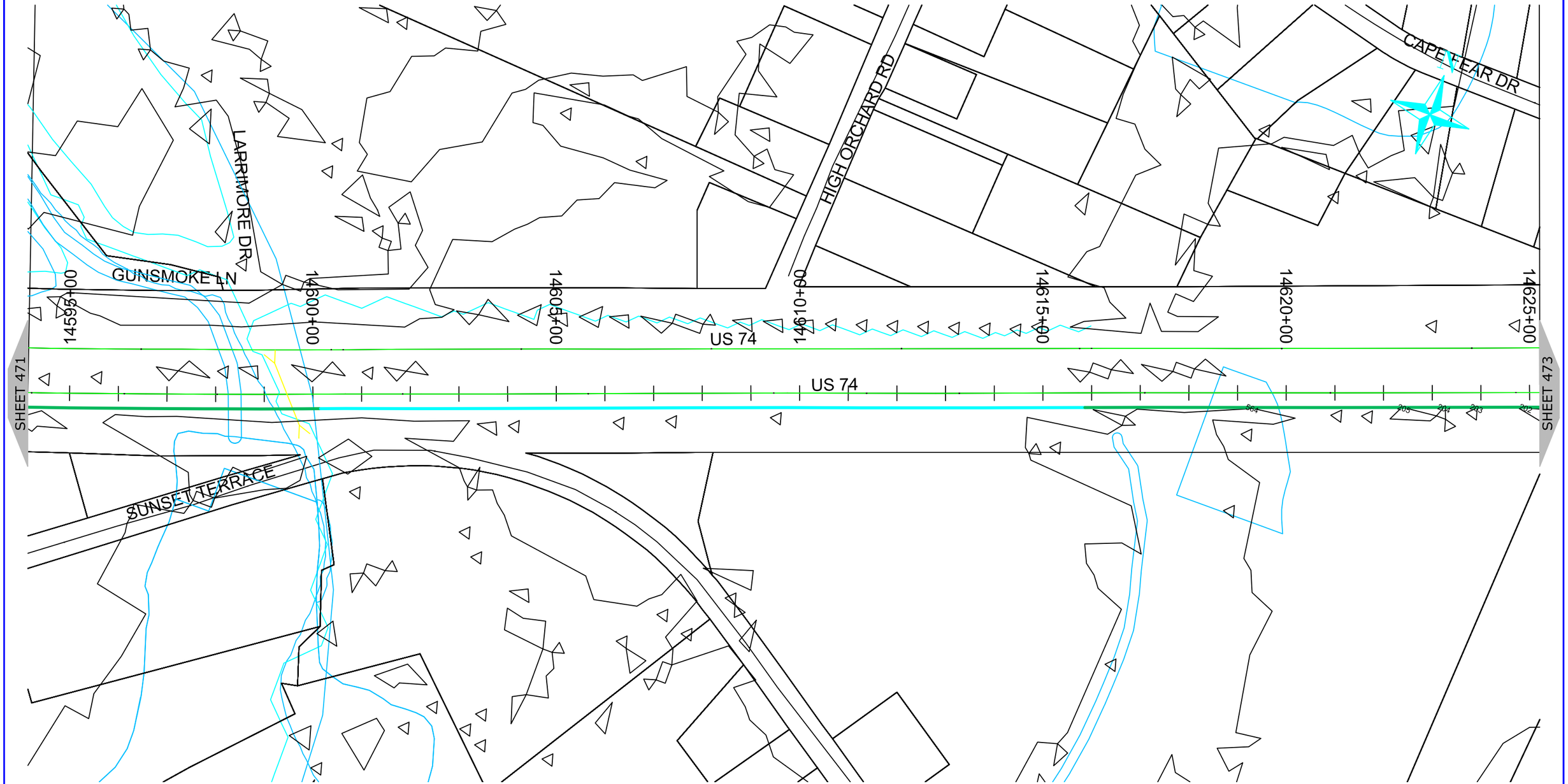
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 471

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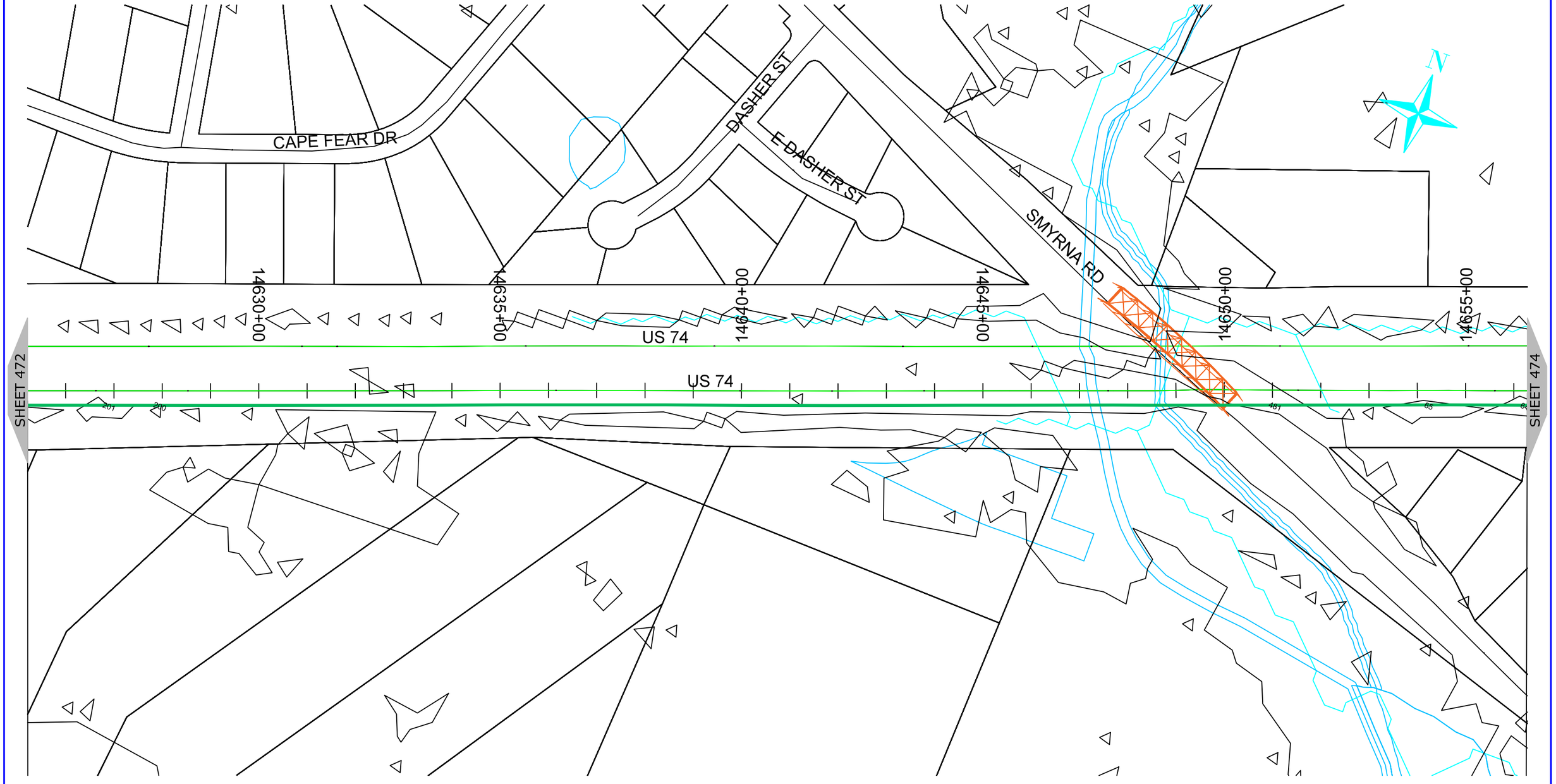
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 472

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PROJECT NAME: US 74

SHEET NAME: 473

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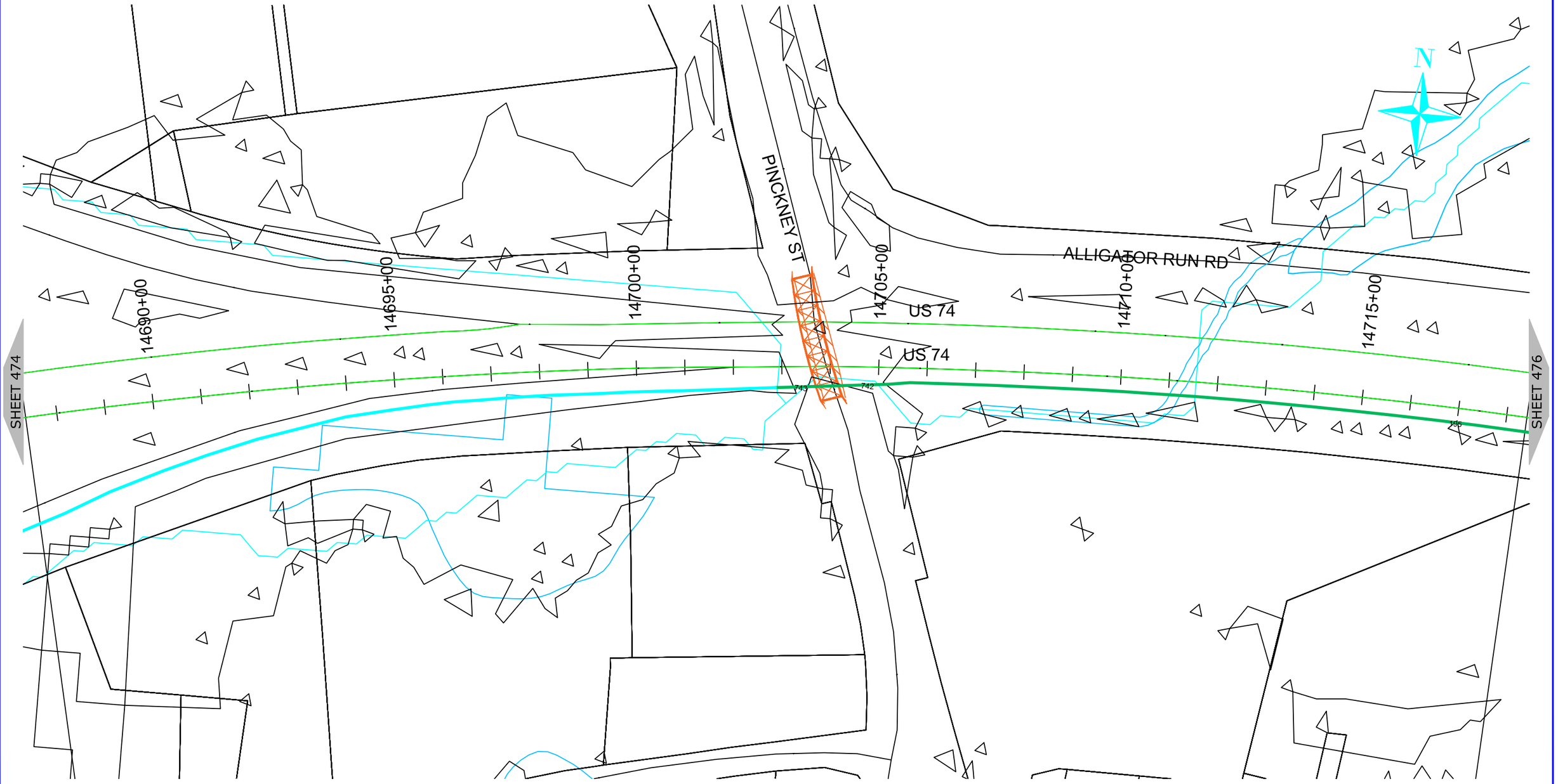
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 474

SHEET: 474

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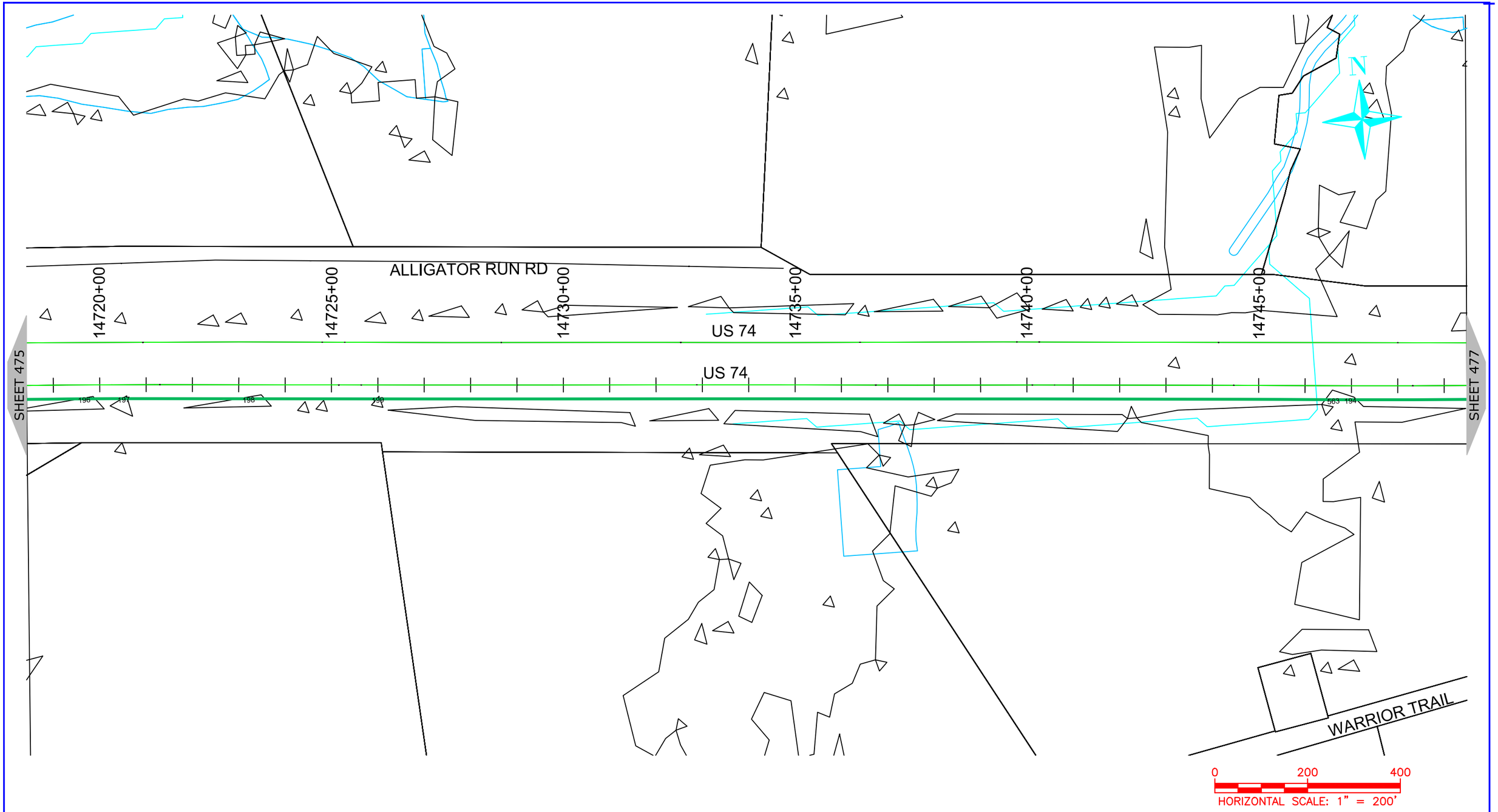
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 475

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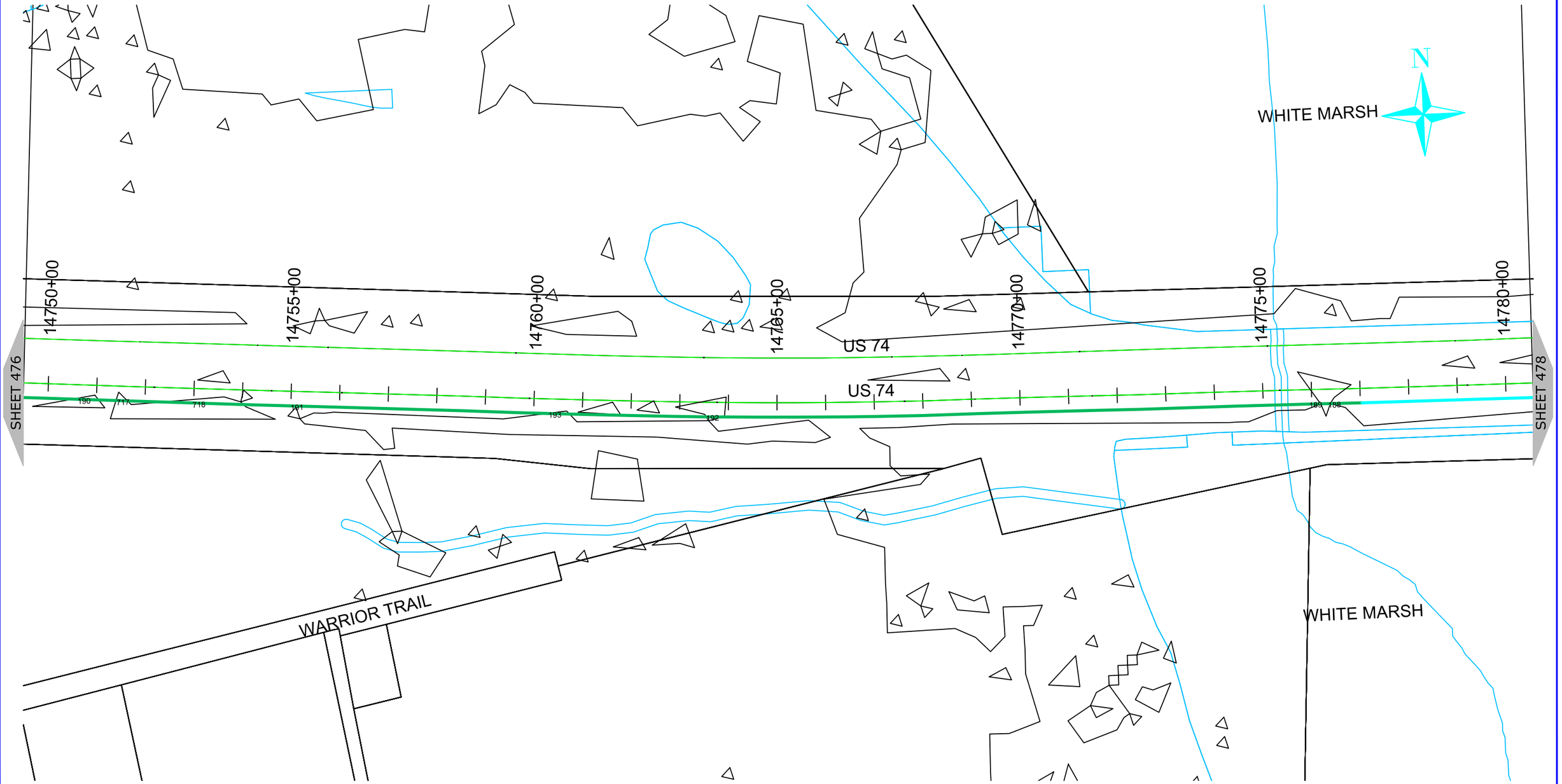
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PROJECT NAME: US 74

SHEET NAME: 476

SHEET: 476

Submitted 12/16/2021



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REV	DATE	DESCRIPTION
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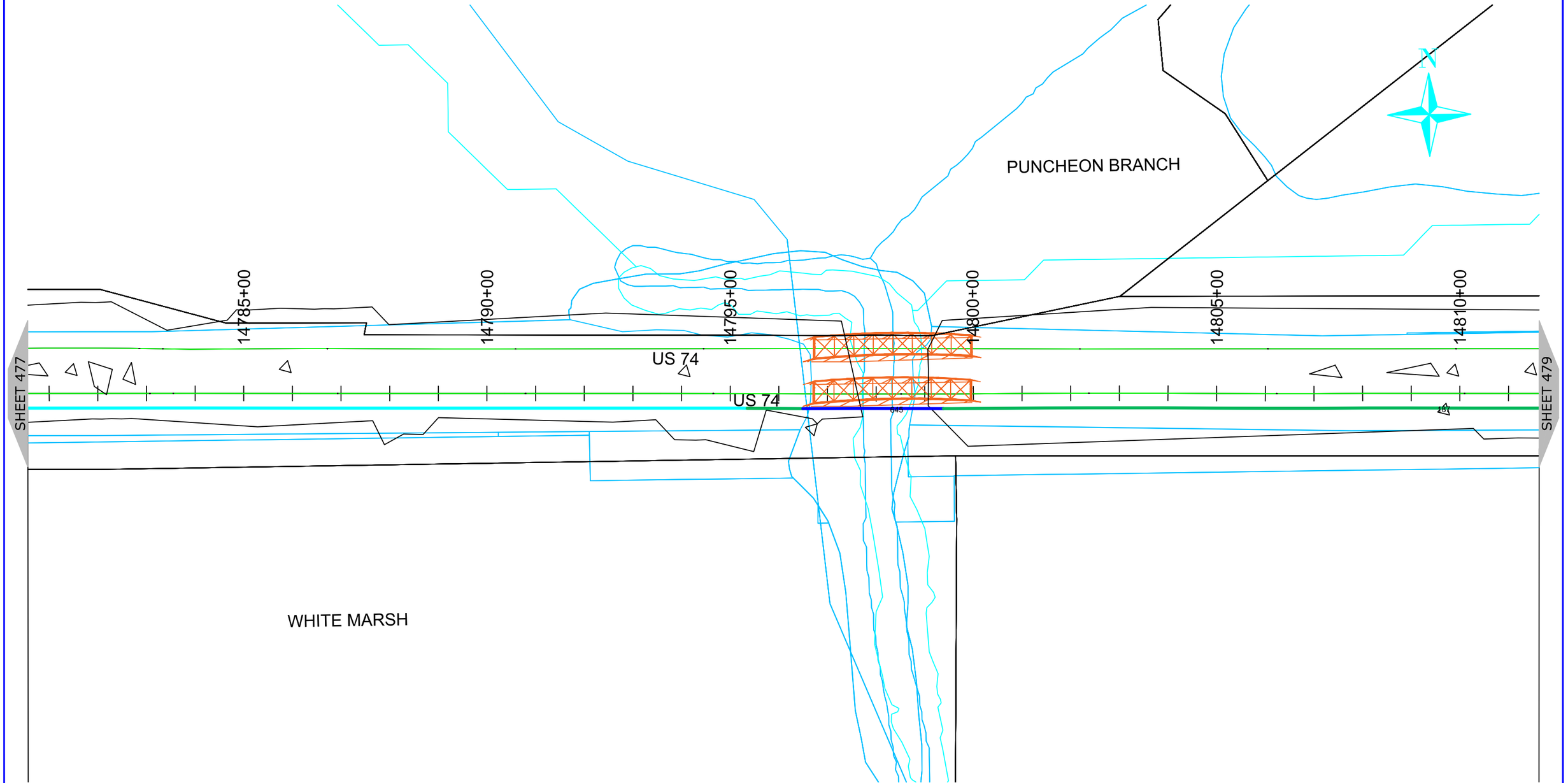
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 477

SHEET: 477

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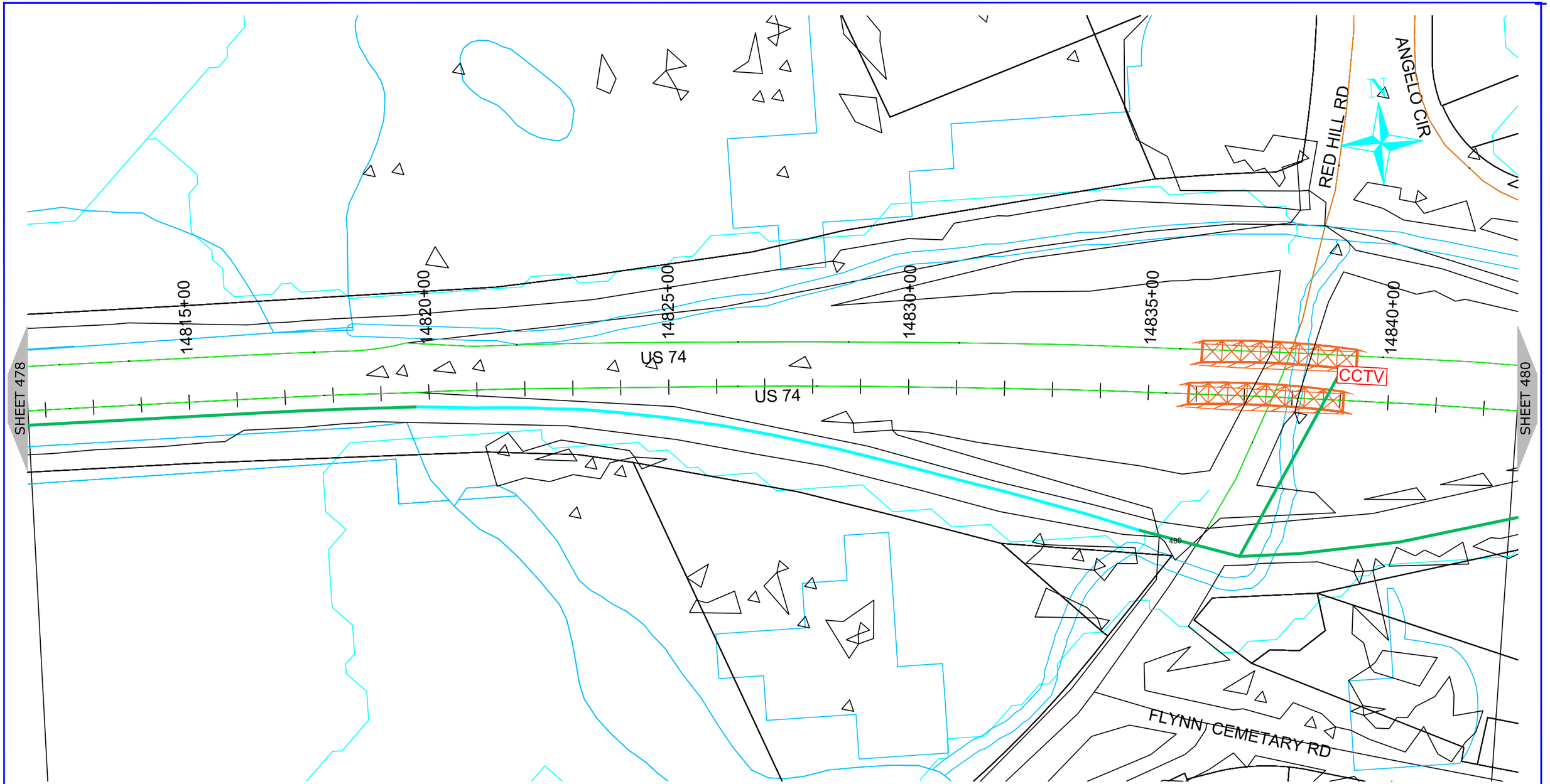
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 478

SHEET: 478

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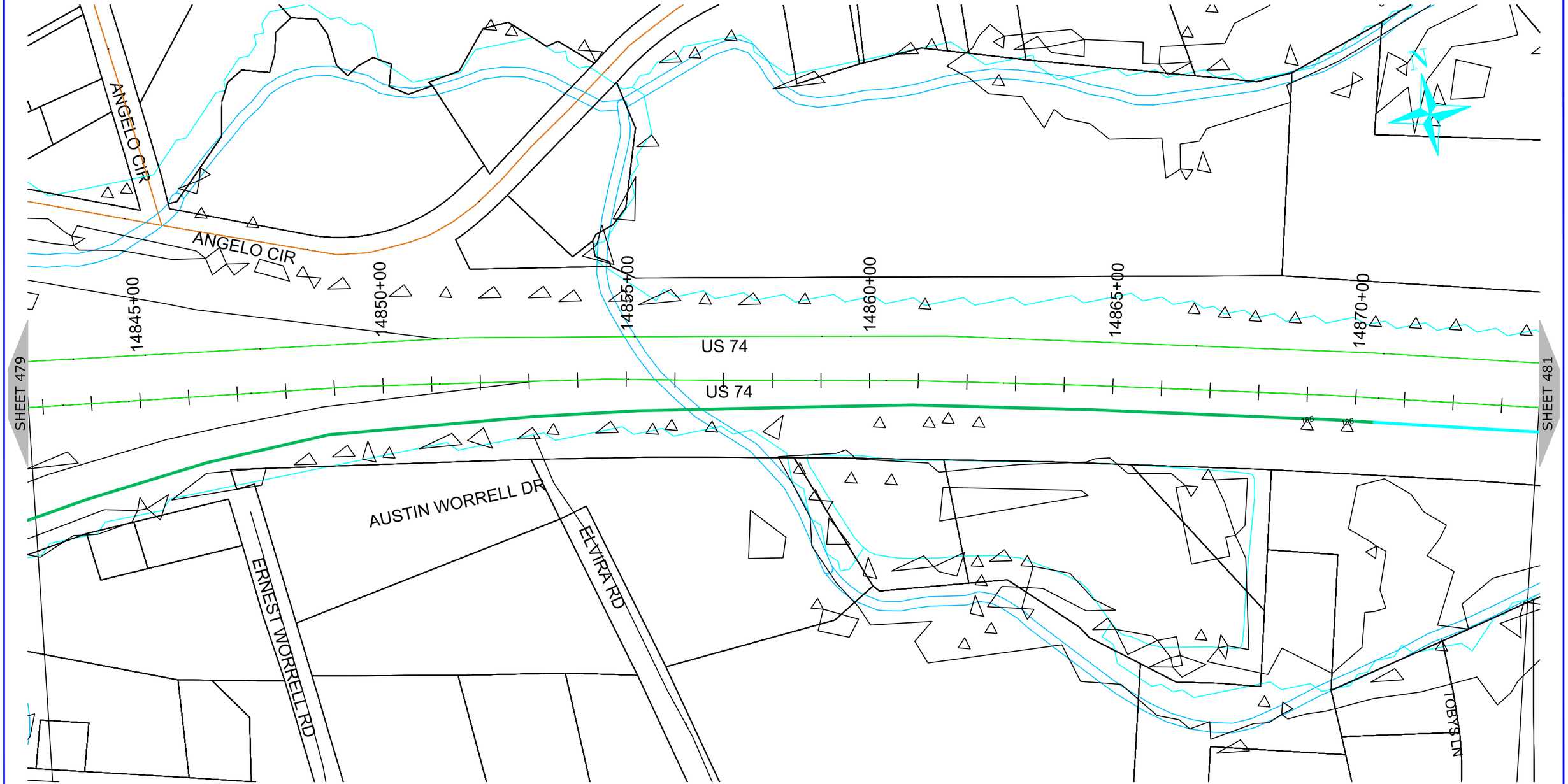
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PROJECT NAME: US 74

SHEET NAME: 479

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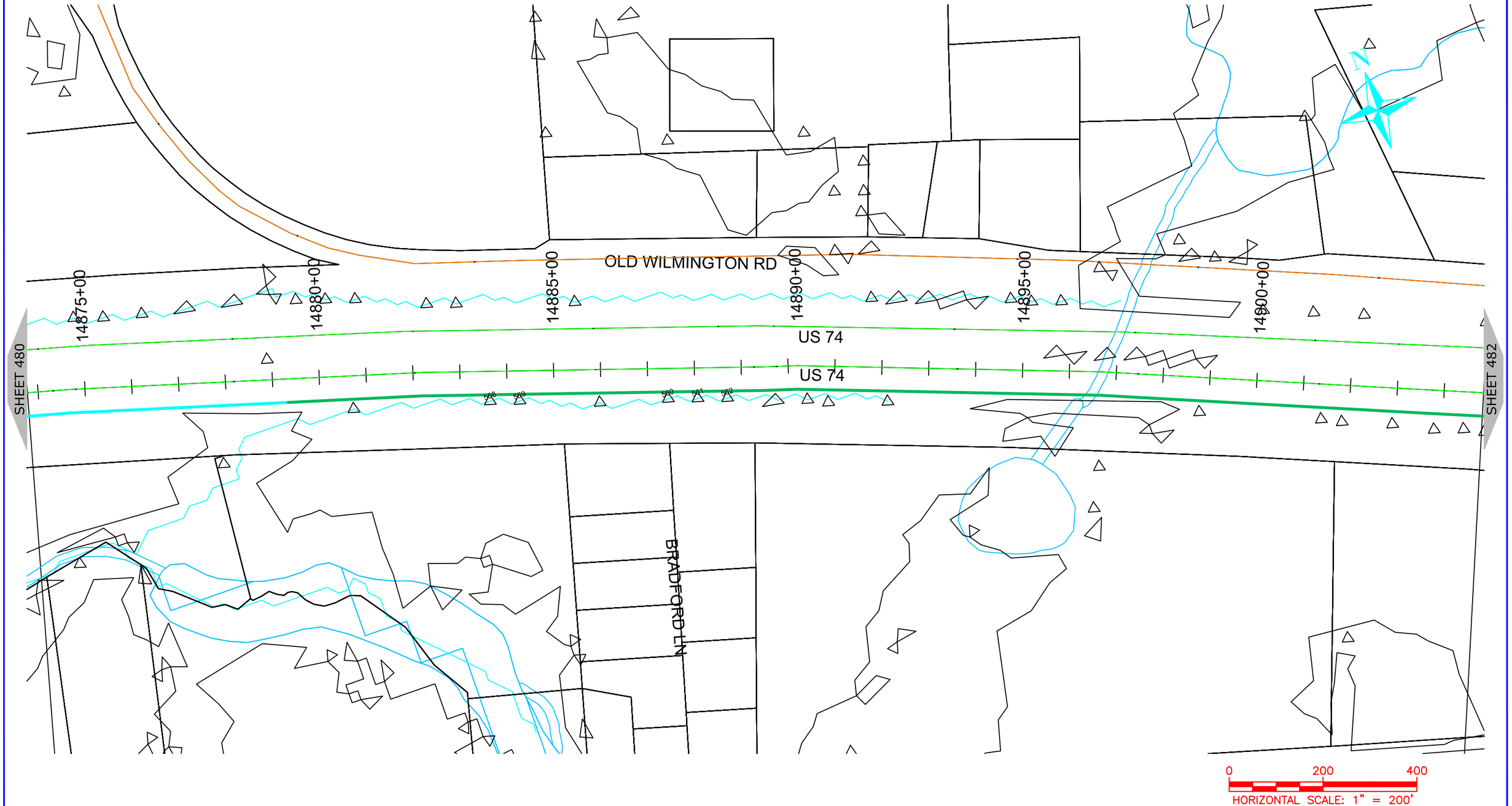
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 480

SHEET: 480

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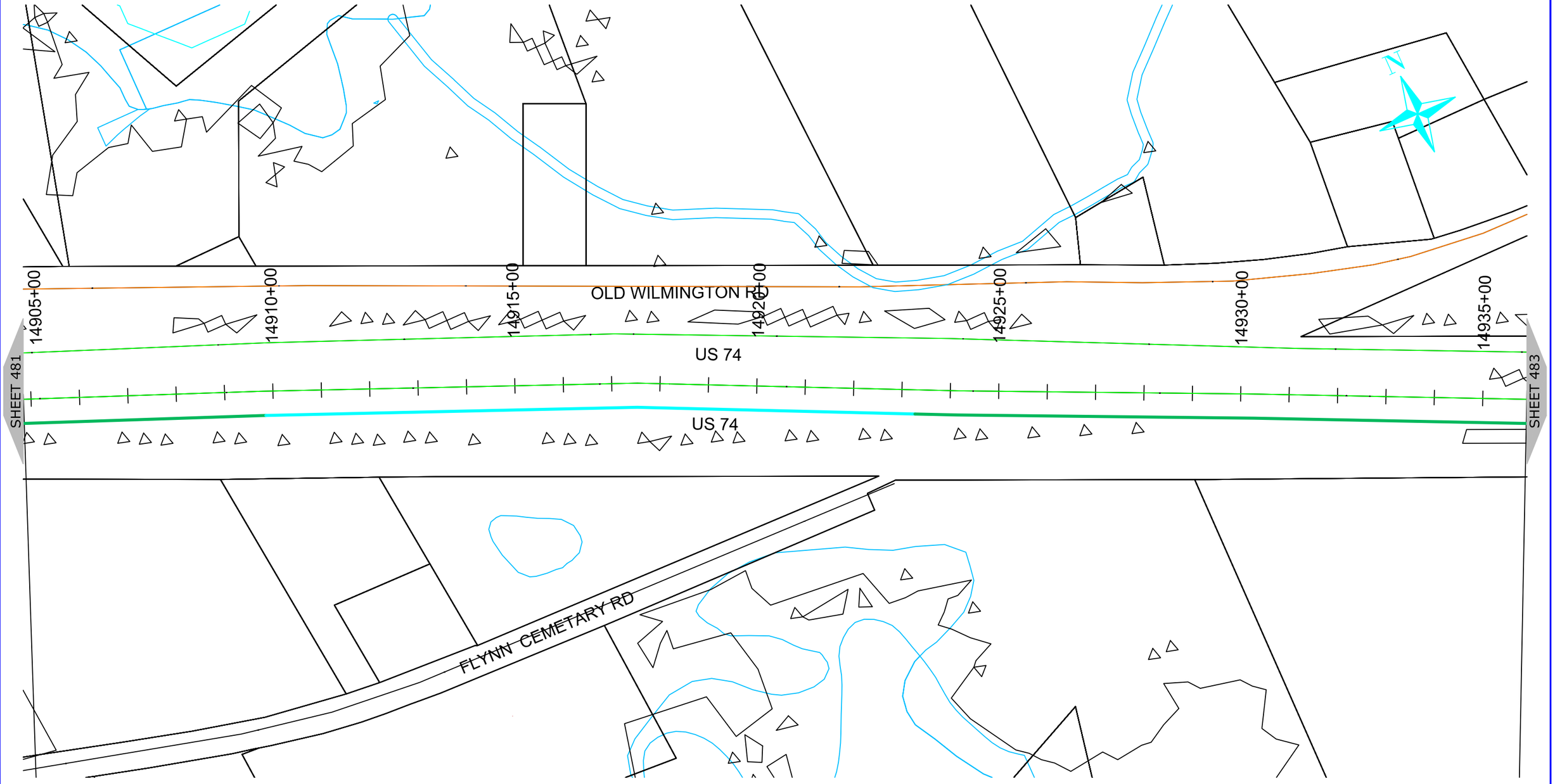
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 481

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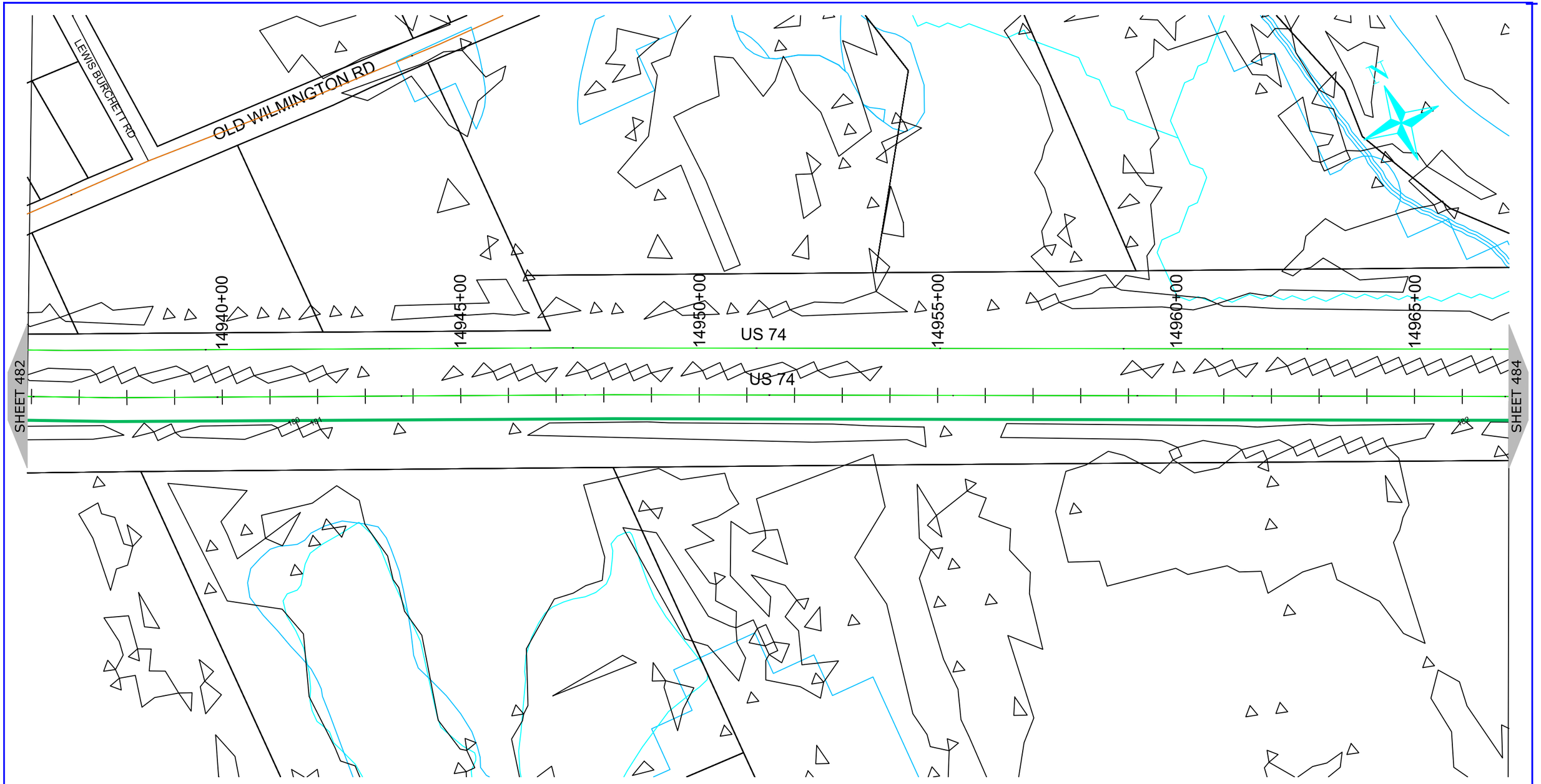
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DATE:	12-05-2021
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 482

SHEET: 482

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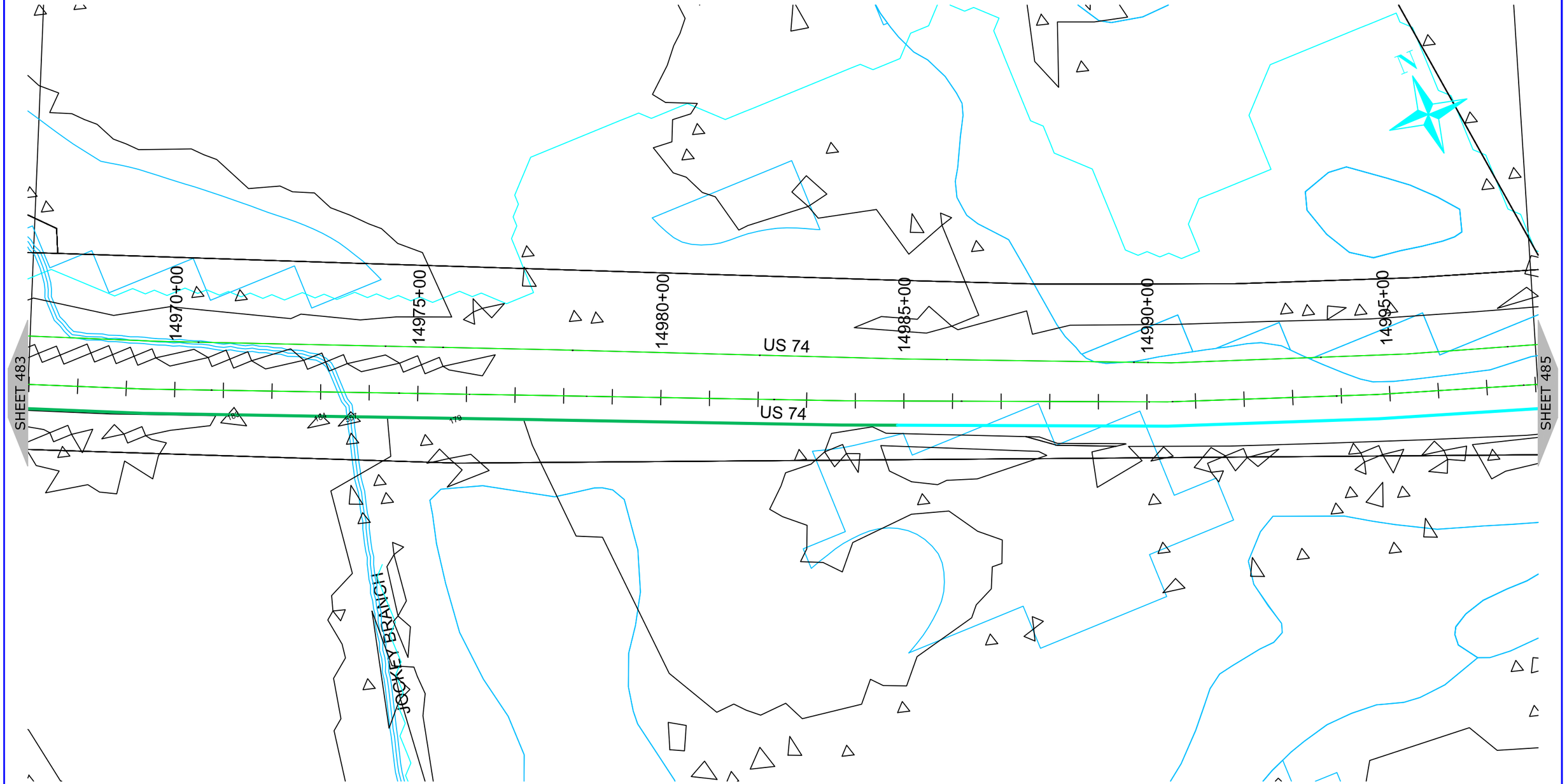
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 483

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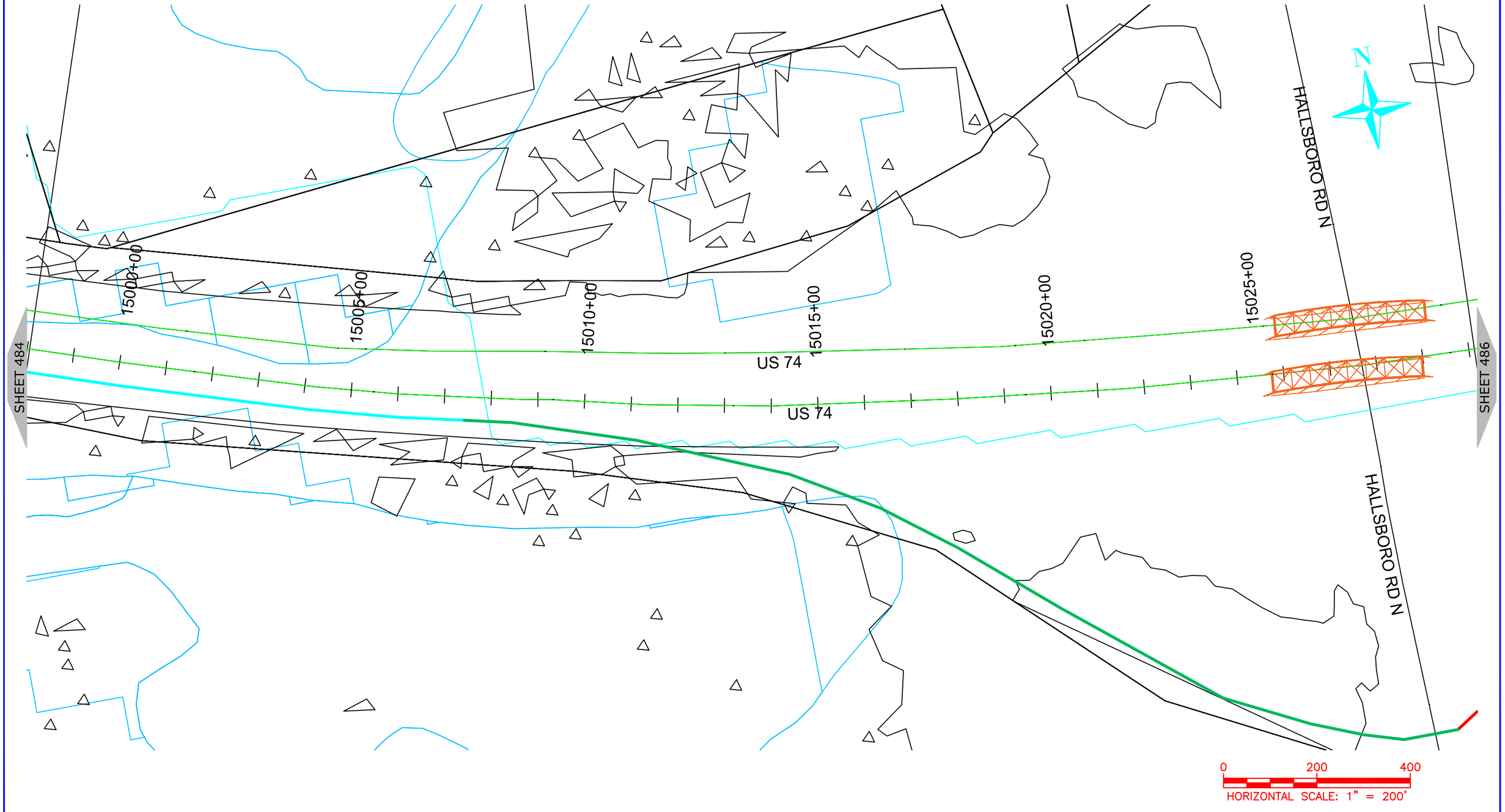
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PROJECT NAME: US 74

SHEET NAME: 484

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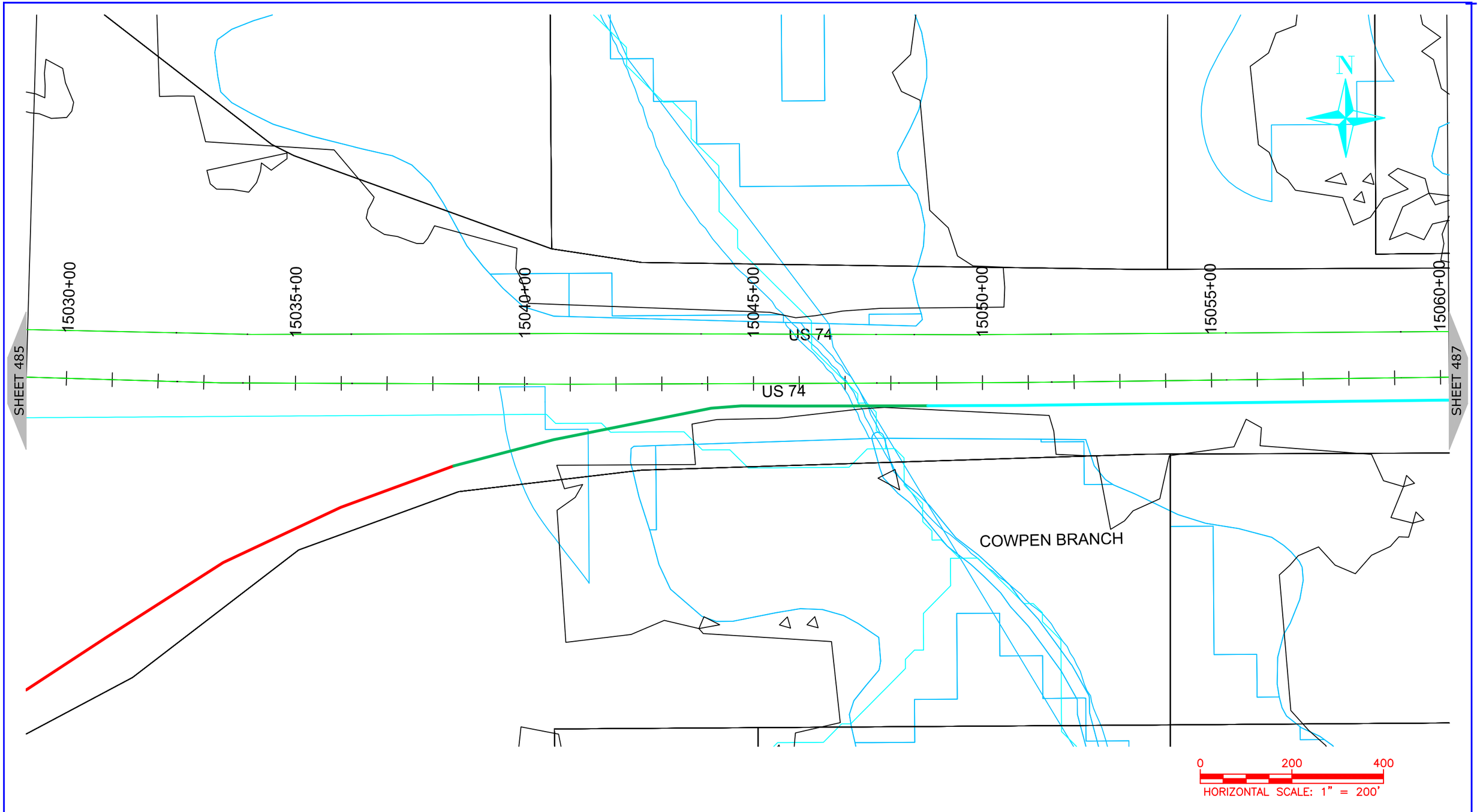
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PROJECT NAME: US 74

SHEET NAME: 485

SHEET: 485

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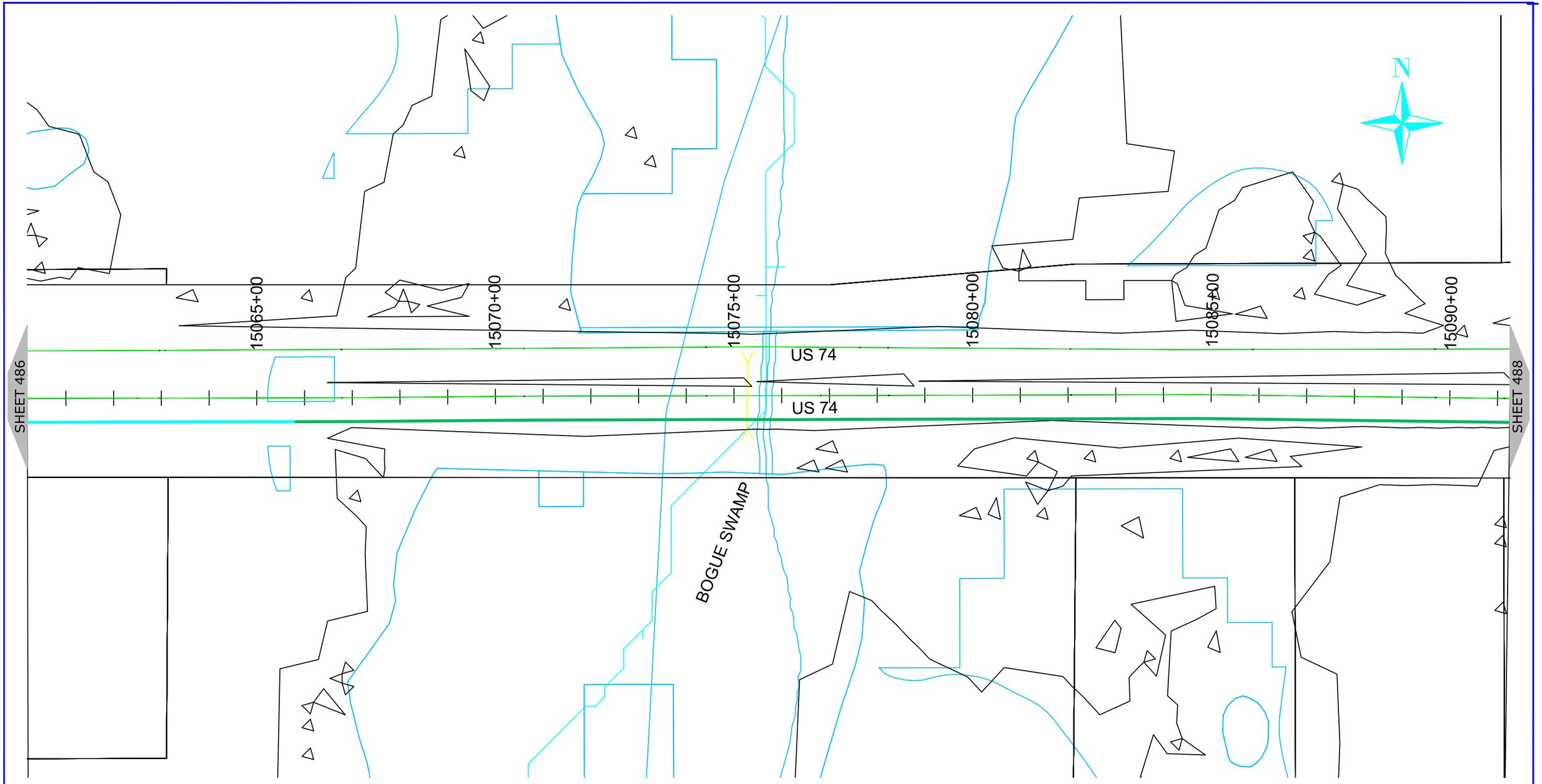
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 486

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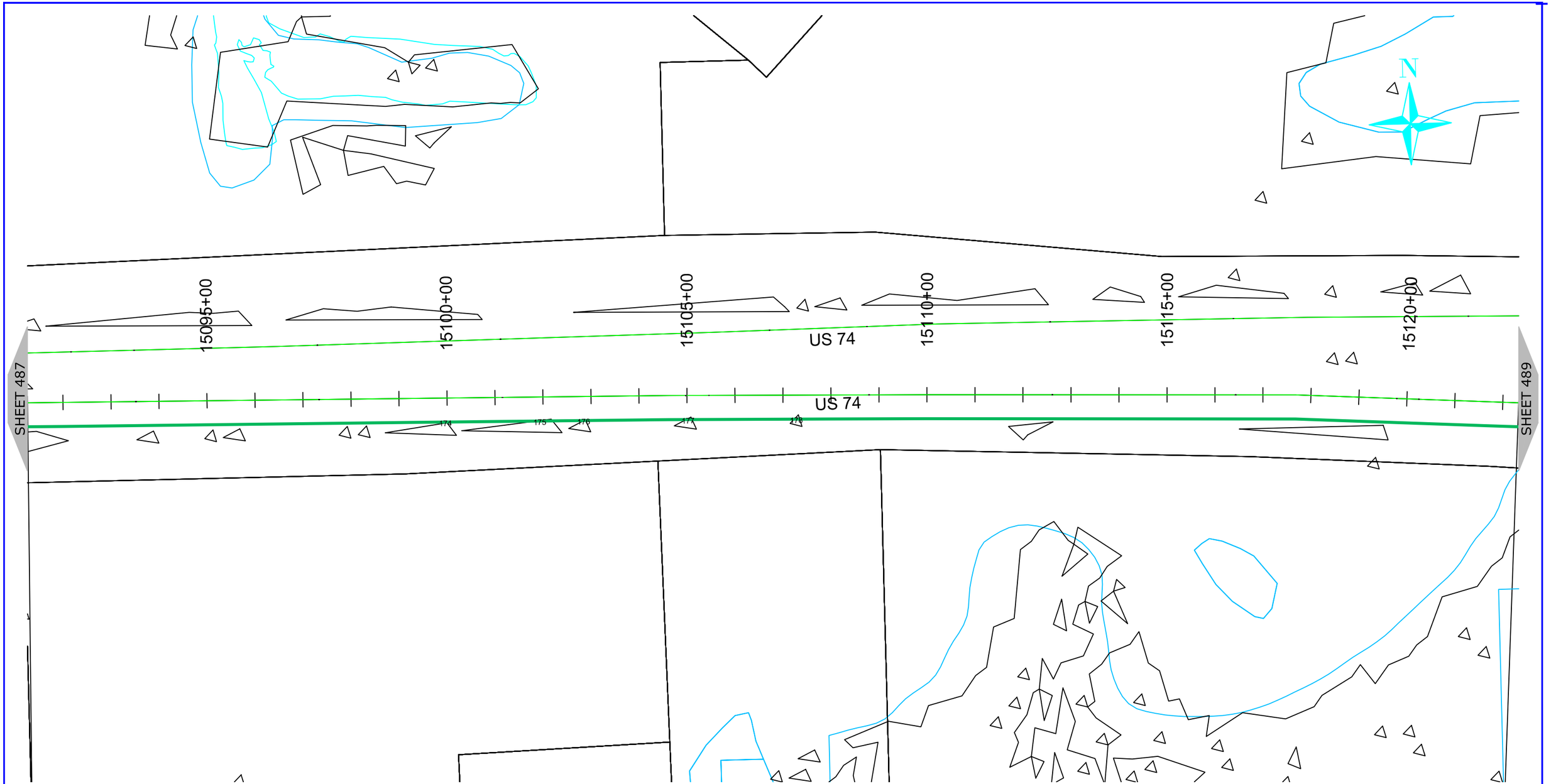
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 487

SHEET: 487

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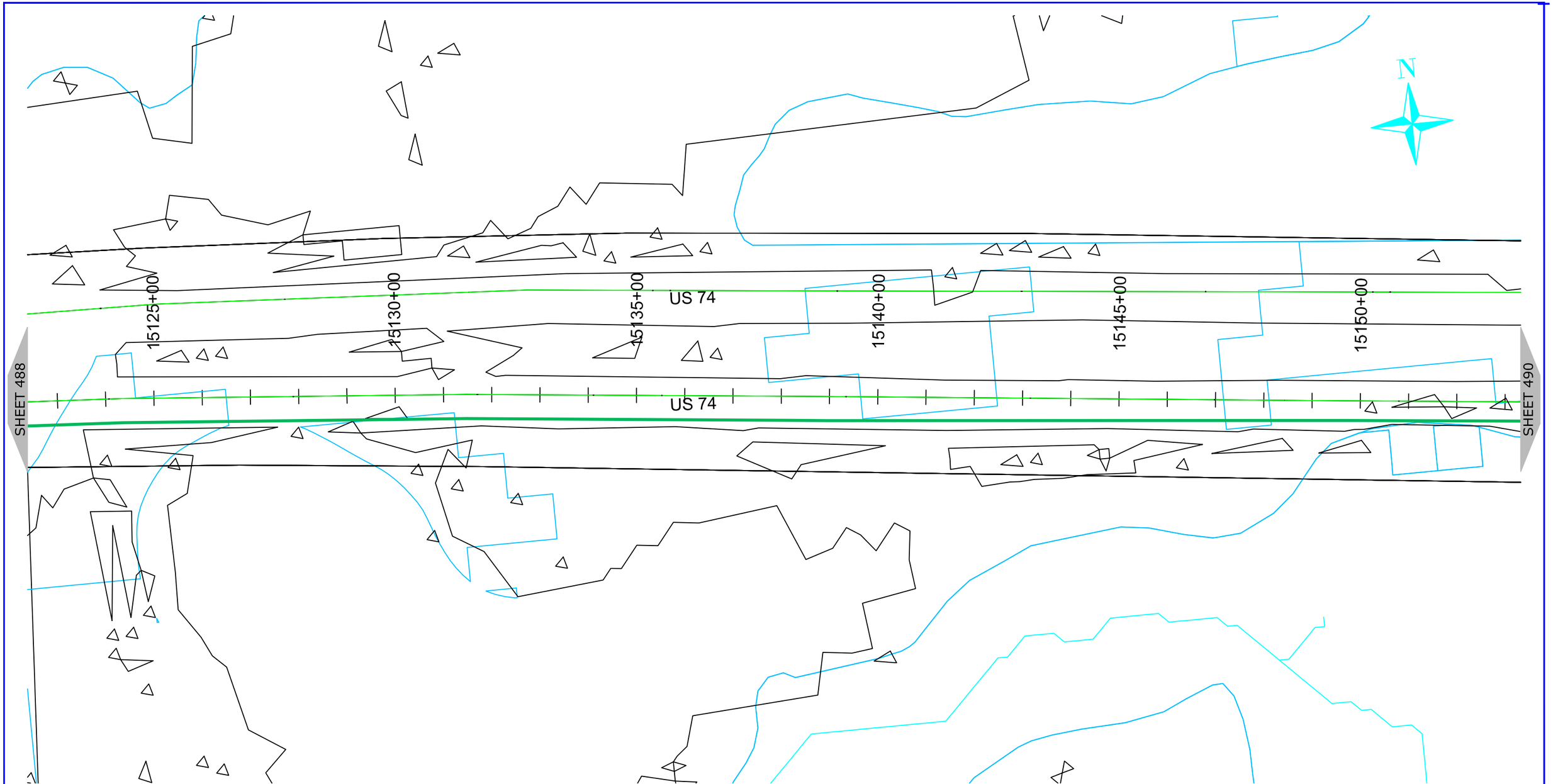
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PROJECT NAME: US 74

SHEET NAME: 488

SHEET: 488

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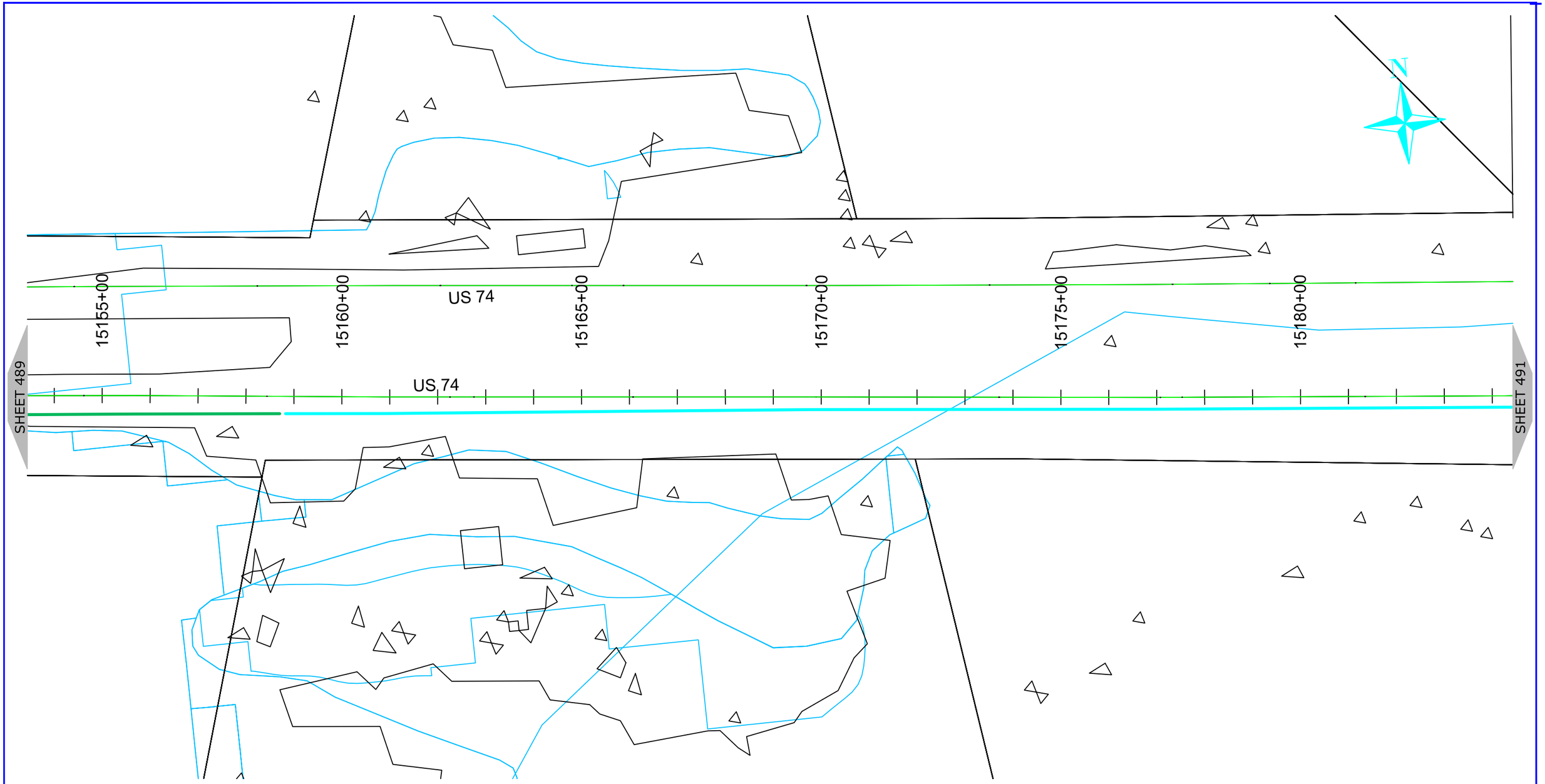
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SCALE:	1:200
DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 489

SHEET: 489

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0 200 400
HORIZONTAL SCALE: 1" = 200'

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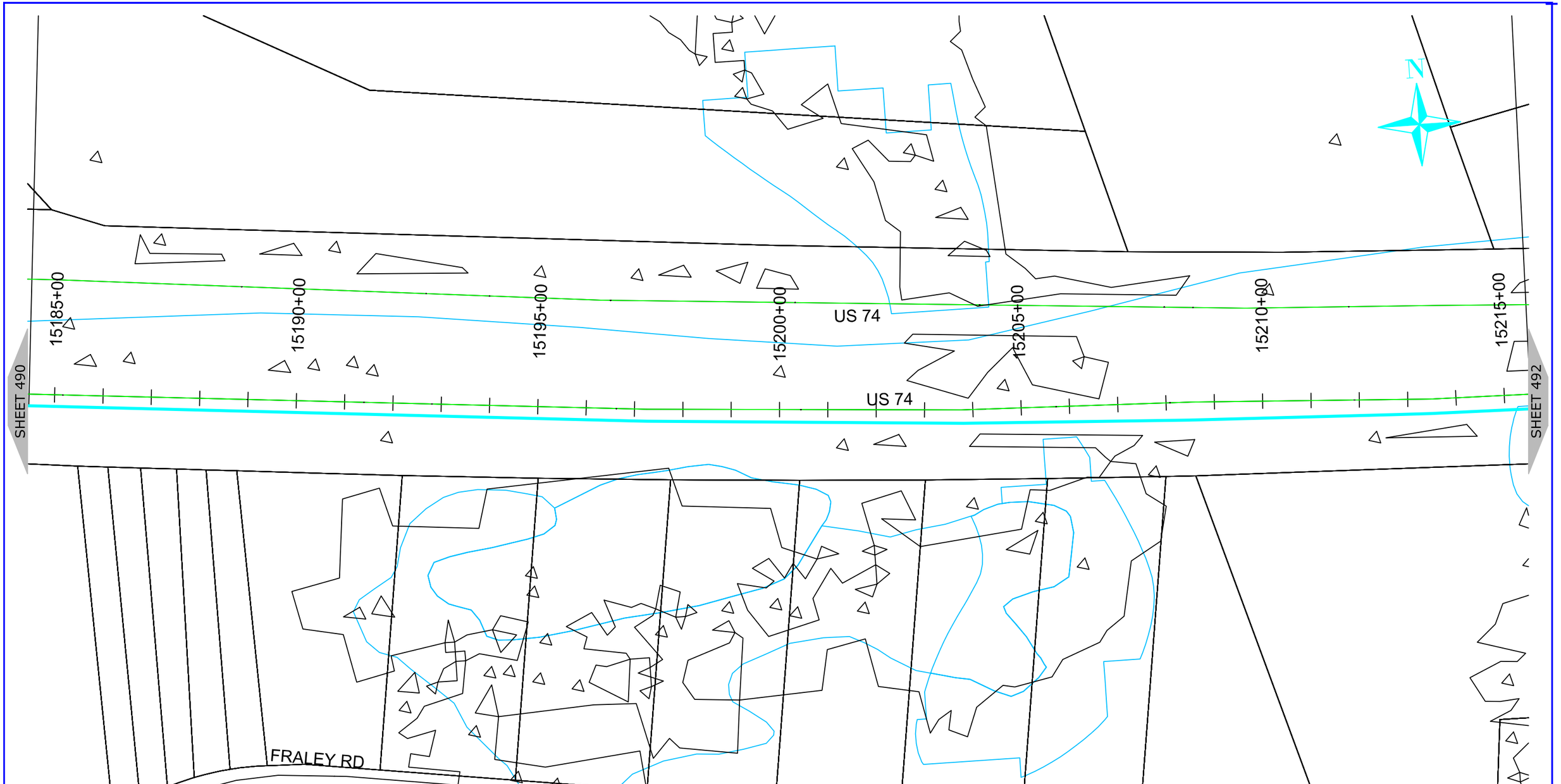
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 490

SHEET: 490

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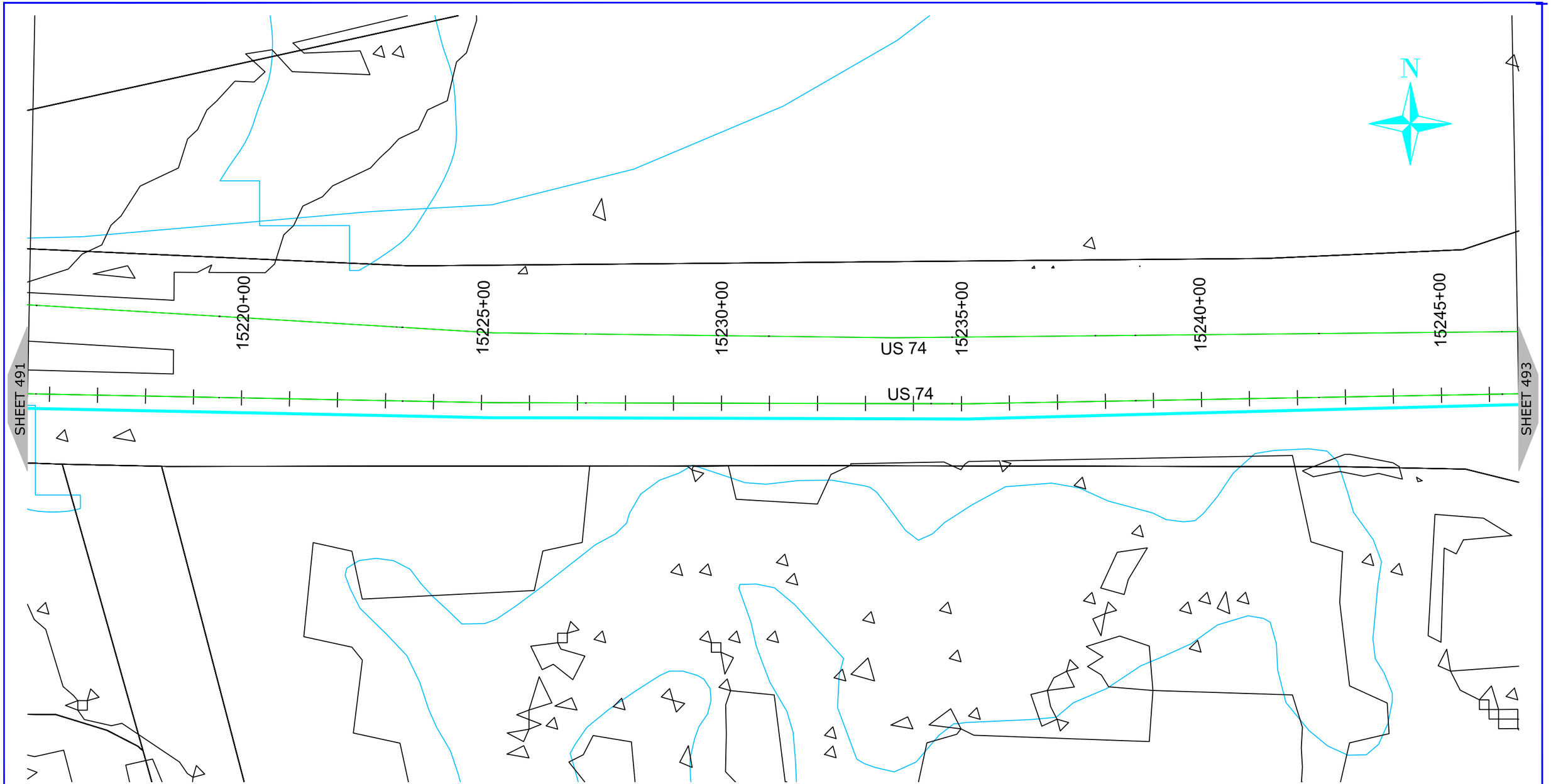
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PROJECT NAME: US 74

SHEET NAME: 491

SHEET: 491

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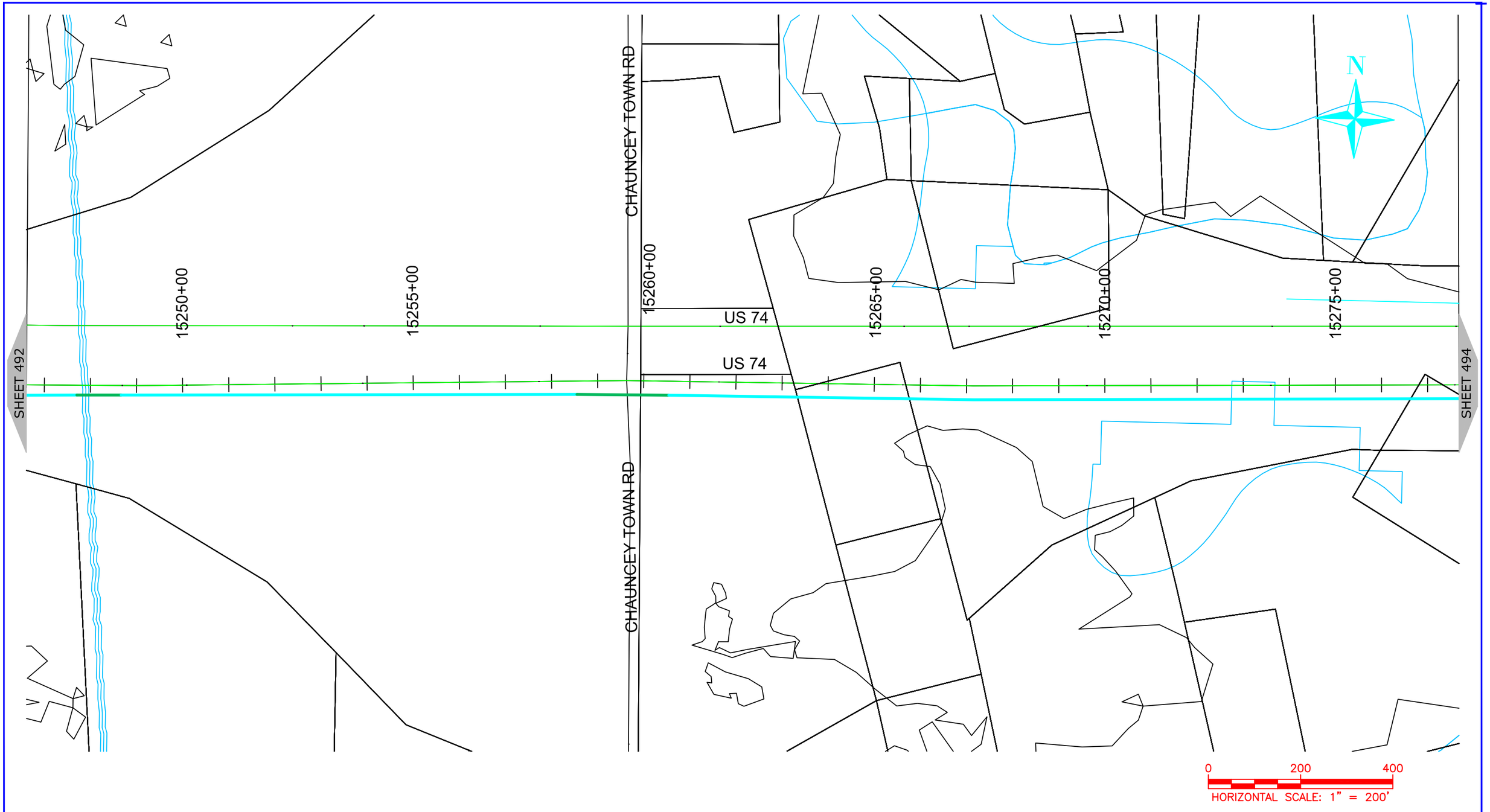
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 492

SHEET: 492

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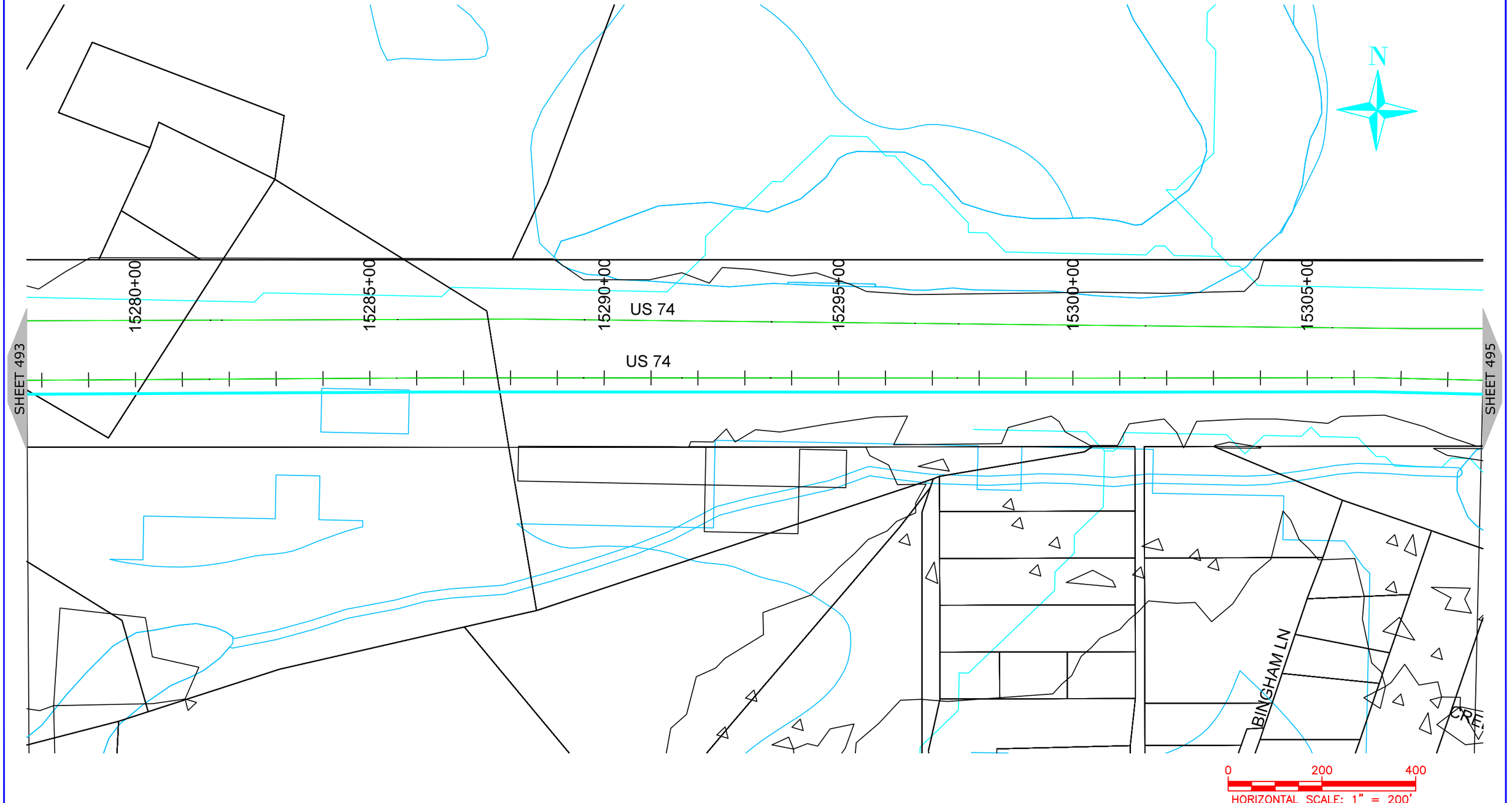
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PROJECT NAME:
US 74

SHEET NAME:
493

SHEET:
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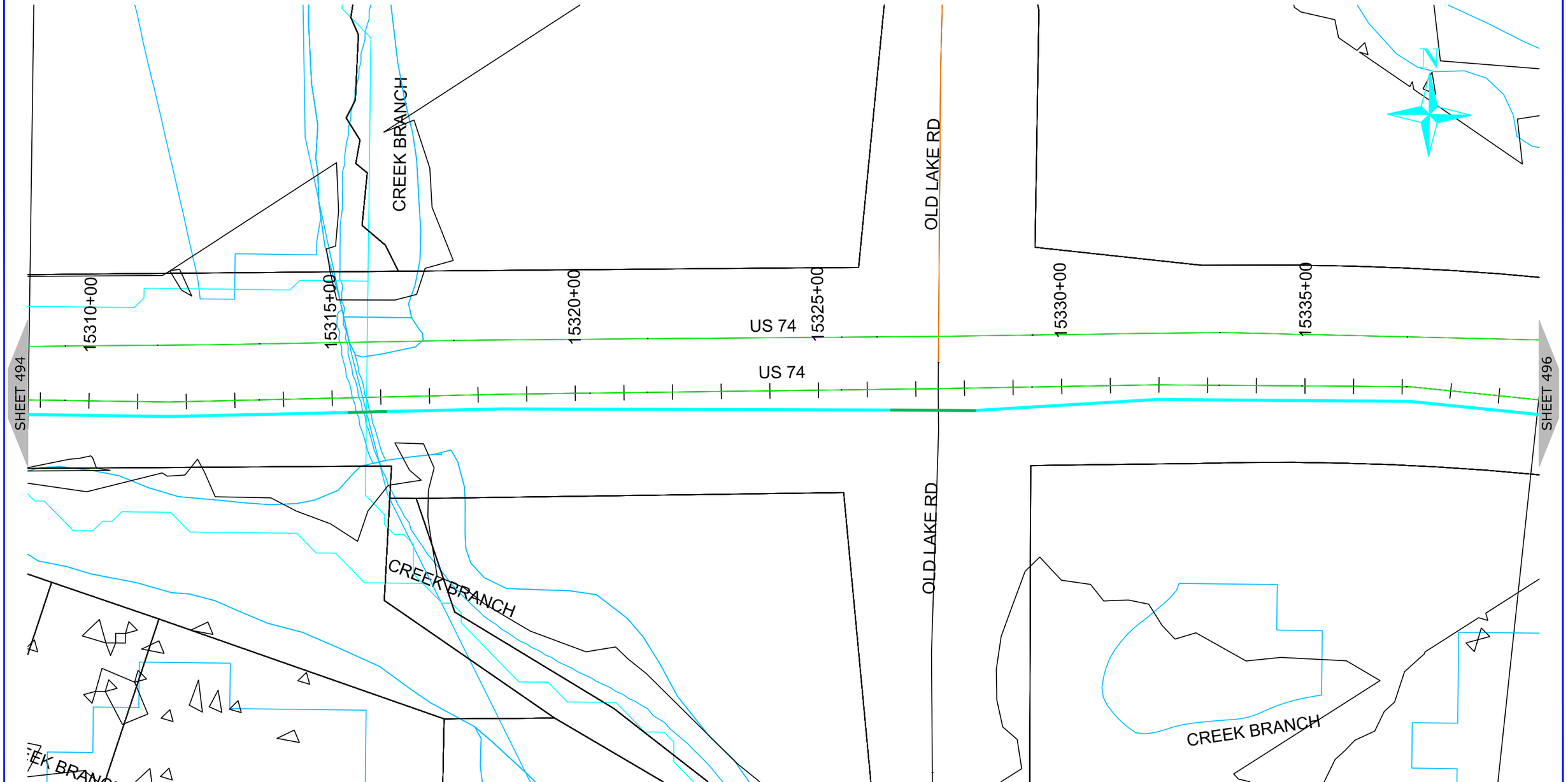
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 494

SHEET: 494

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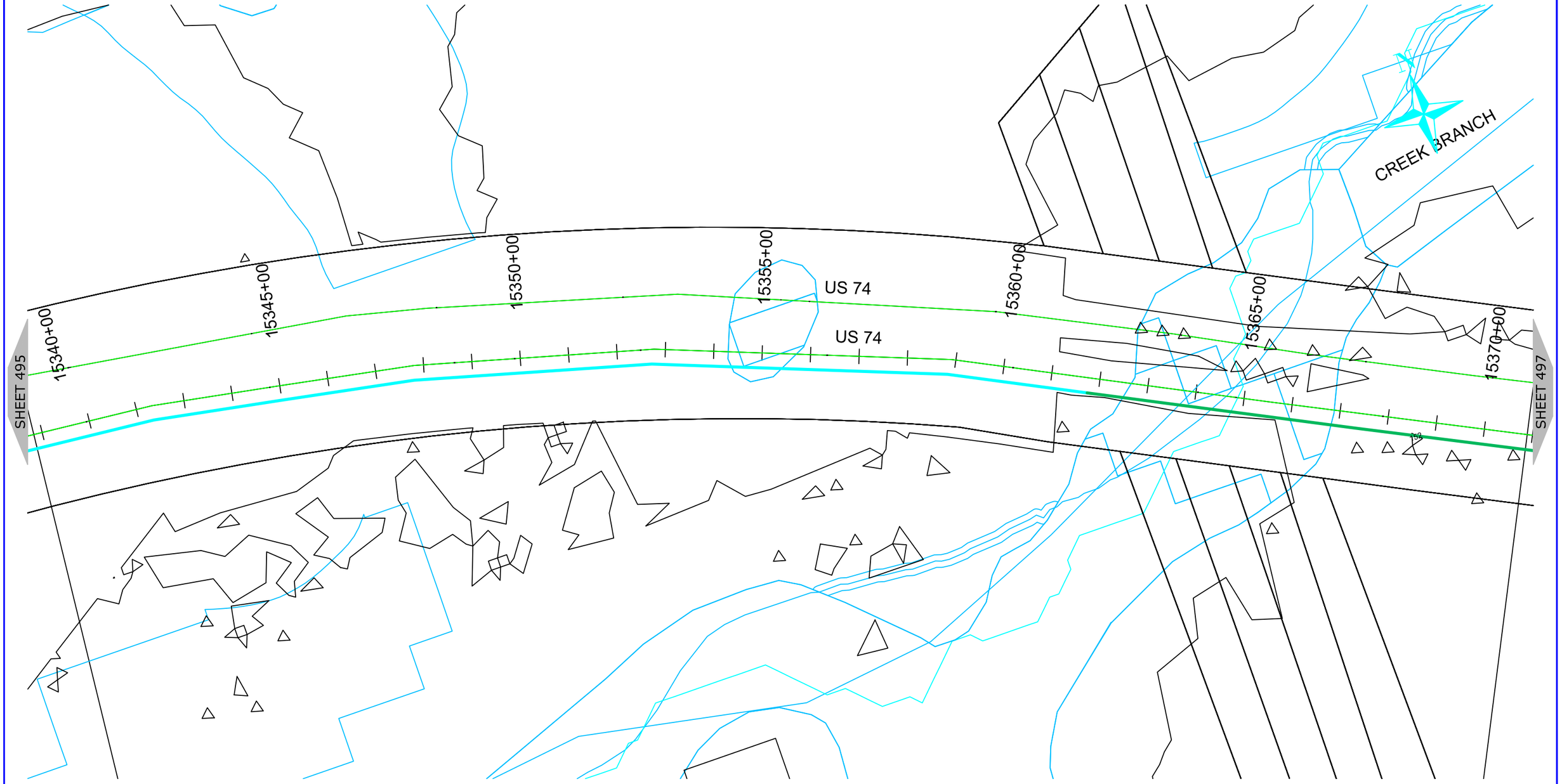
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 495

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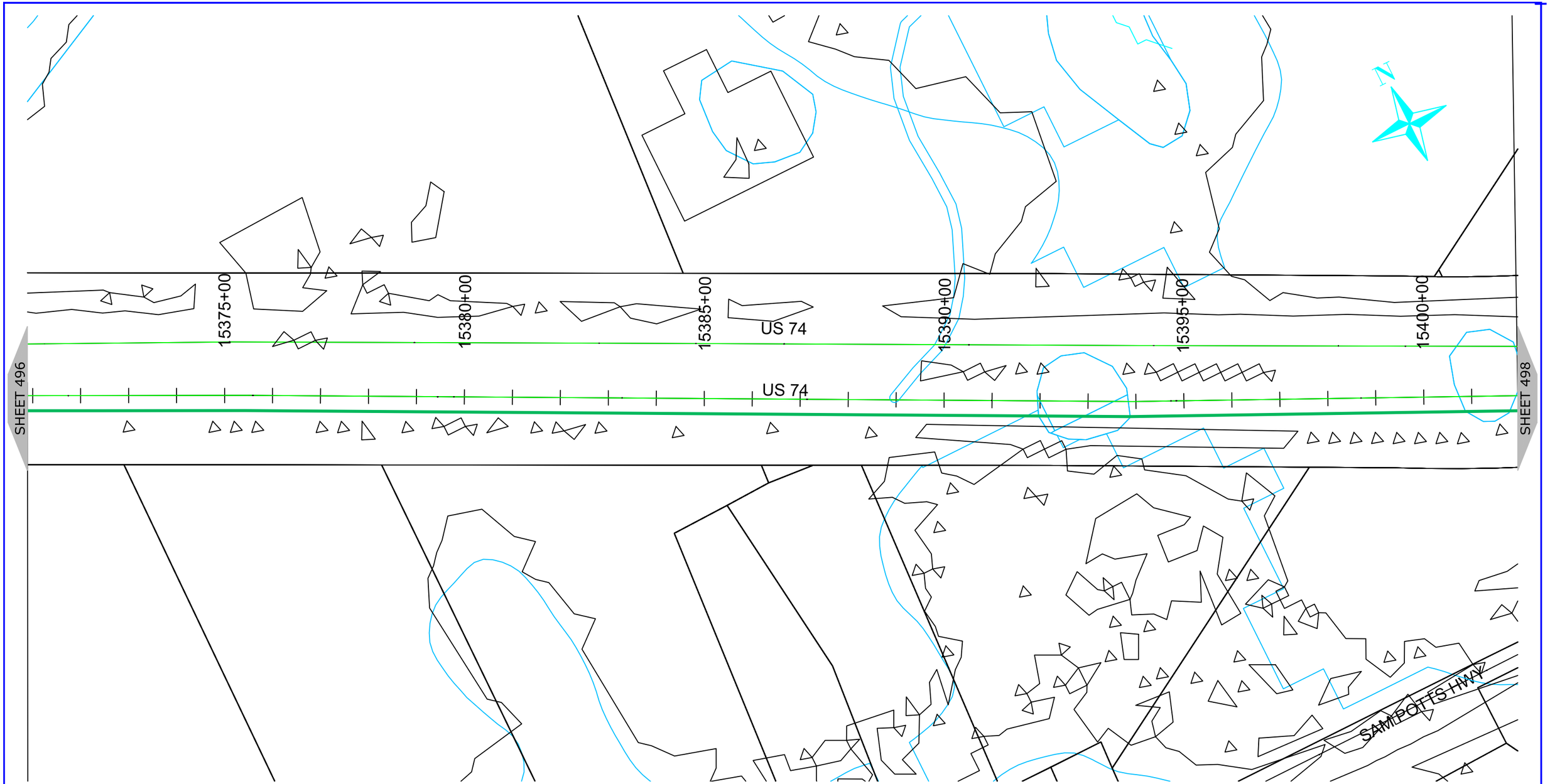
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DESIGNED BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 496

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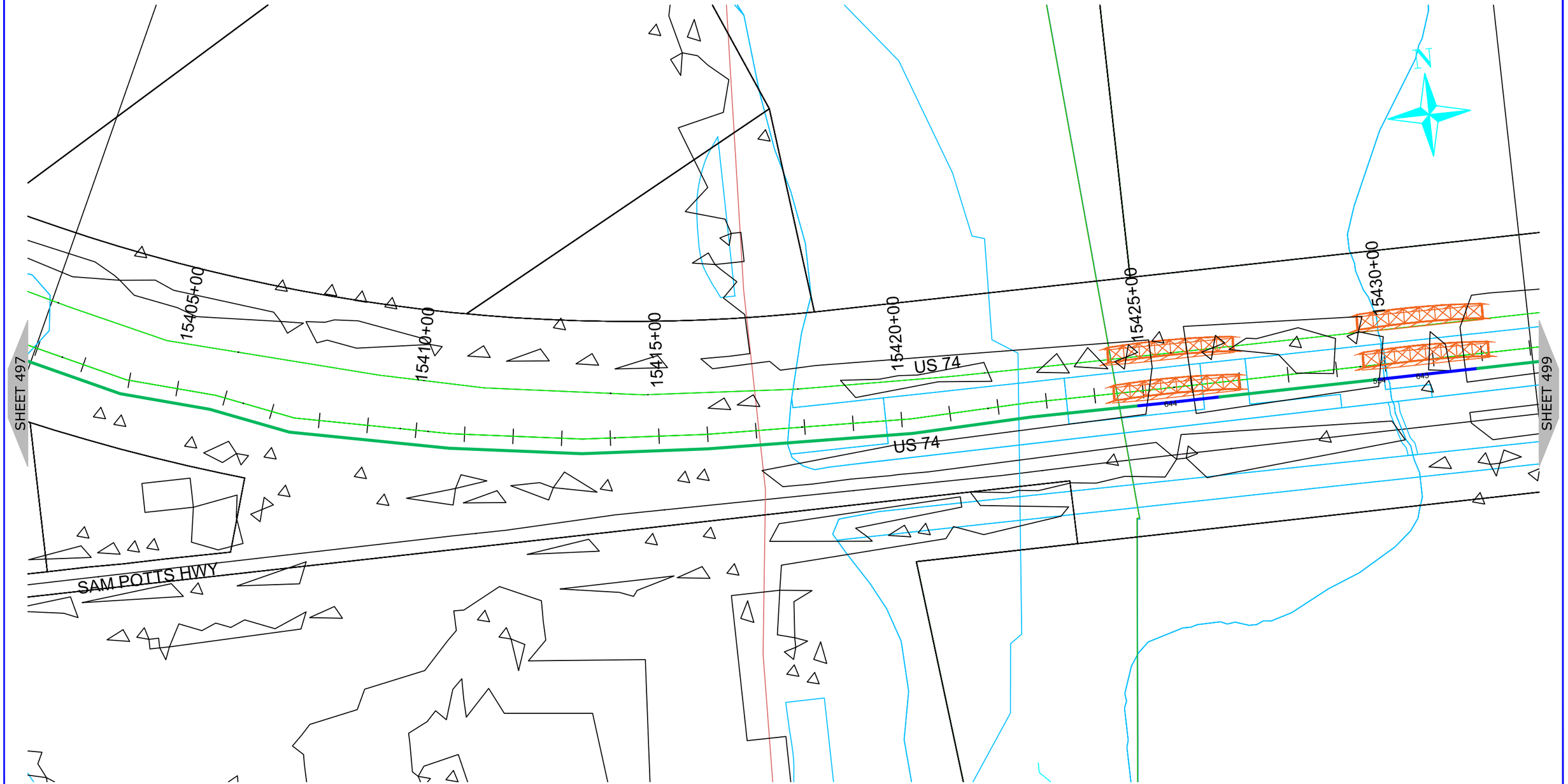
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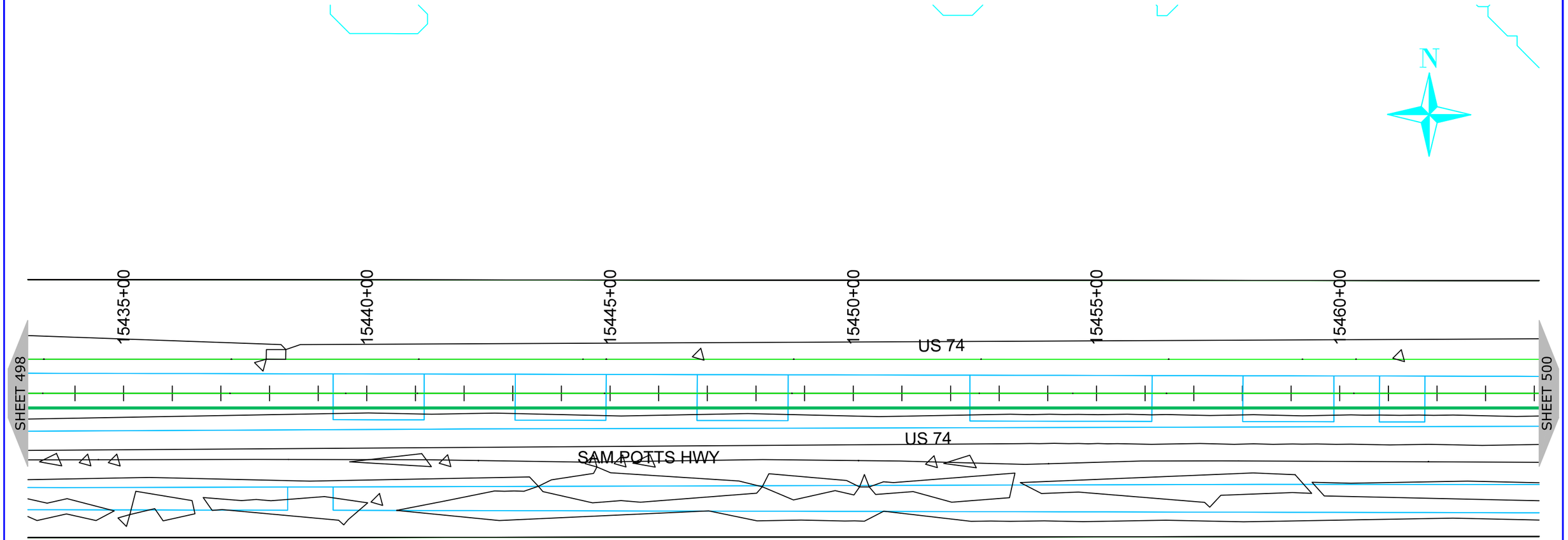
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PROJECT NAME: US 74

SHEET NAME: 498

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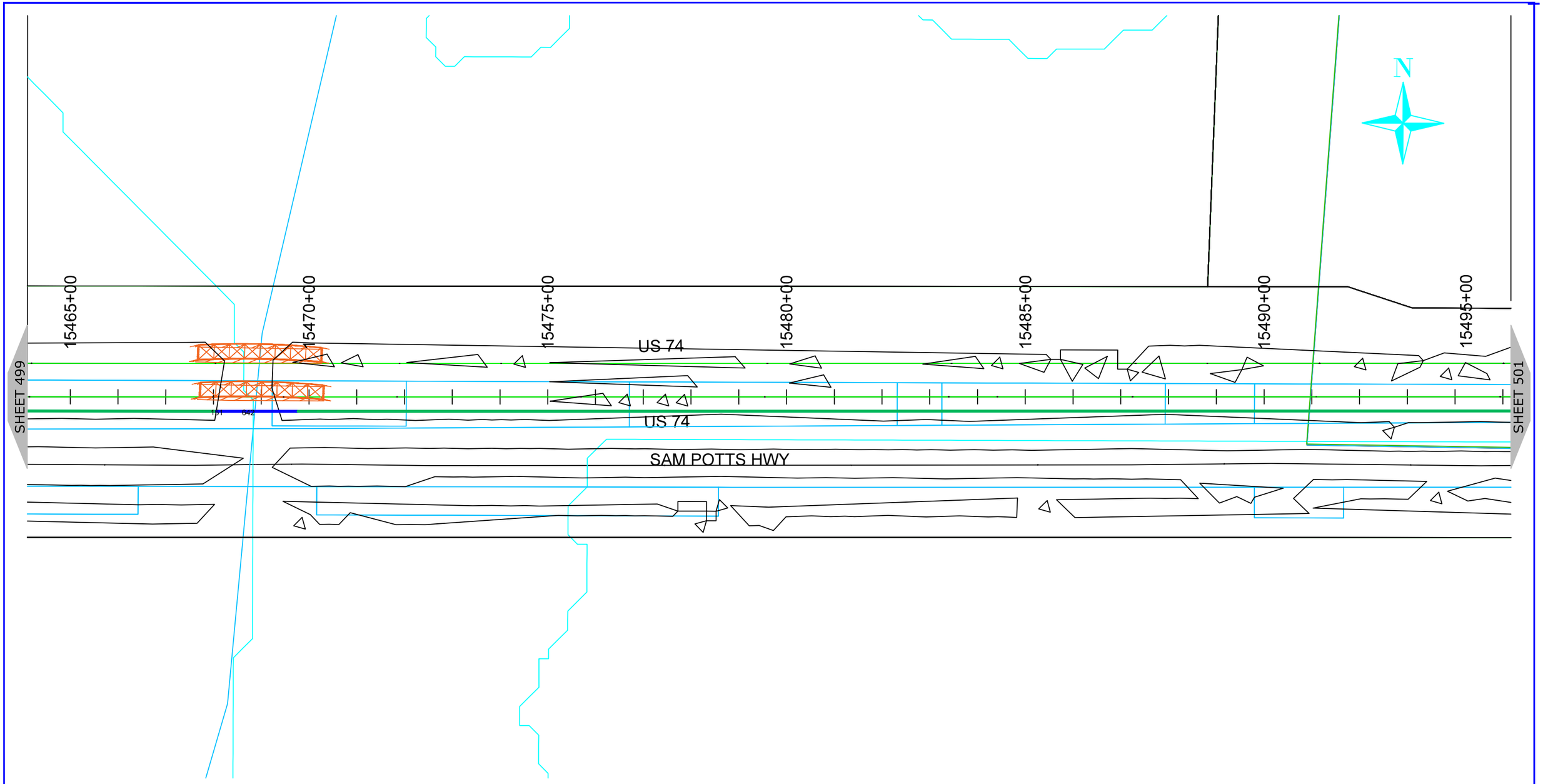
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 499

SHEET: 499

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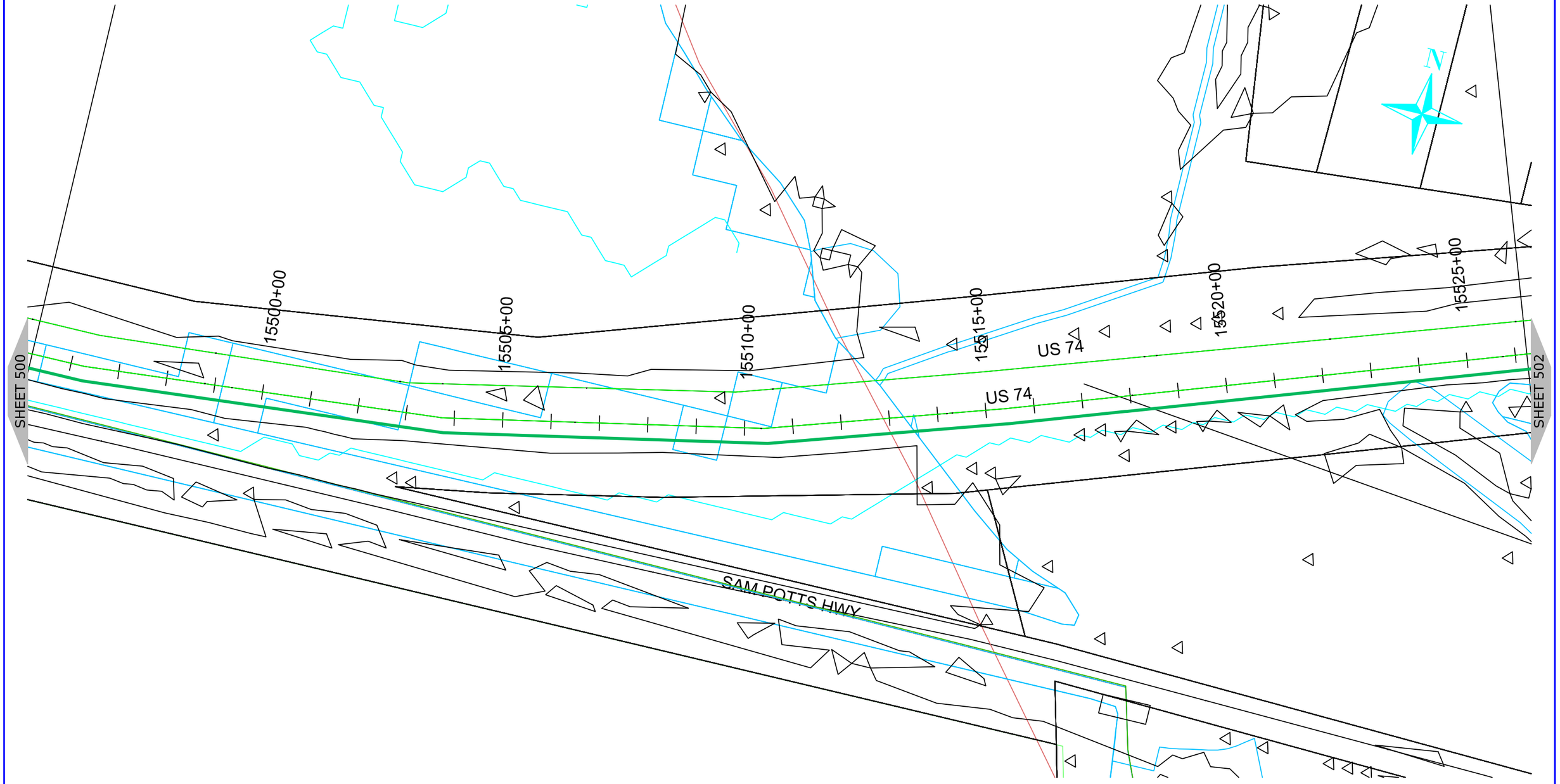
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 500

SHEET: 500

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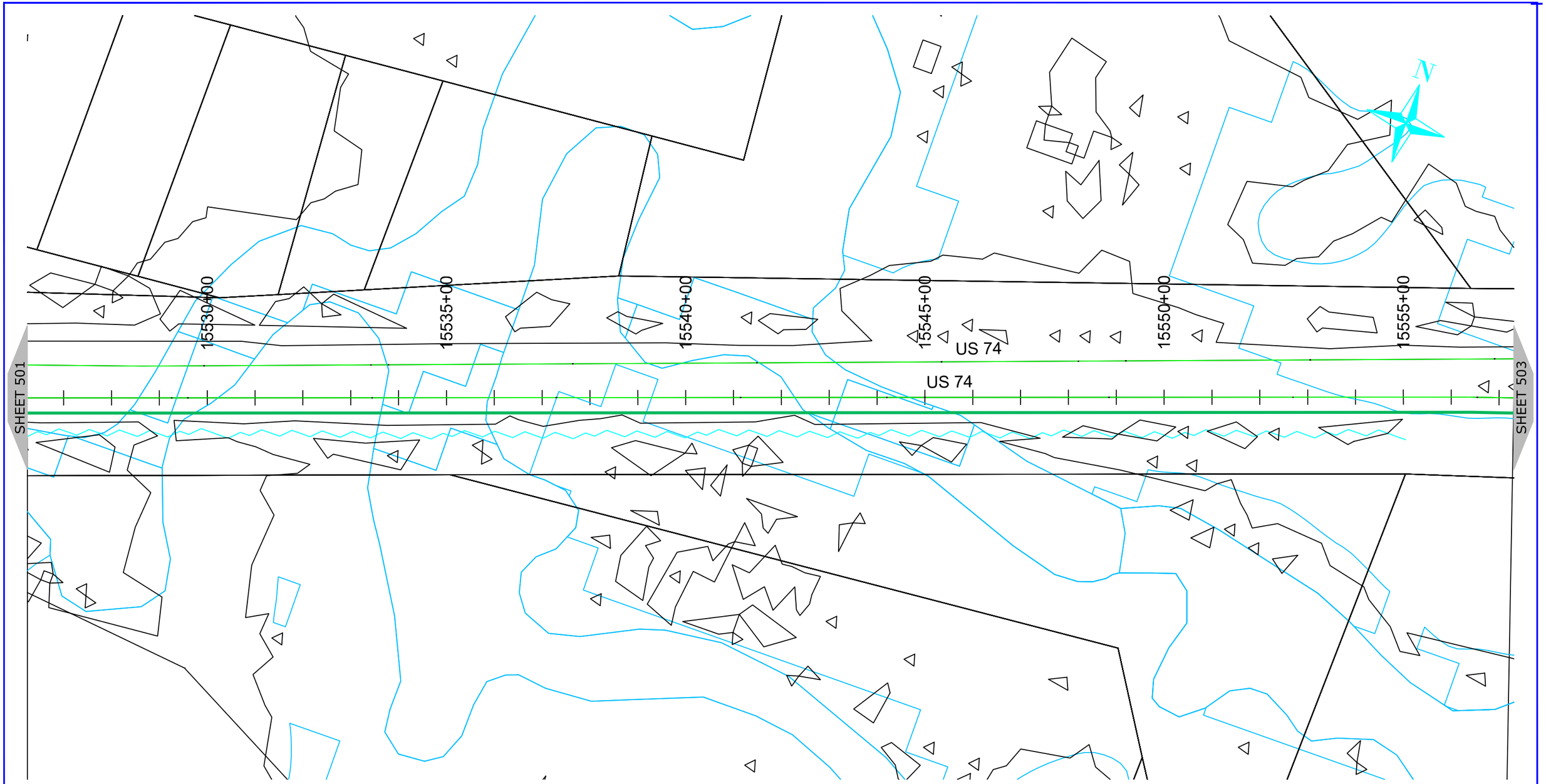
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 501

SHEET: 501

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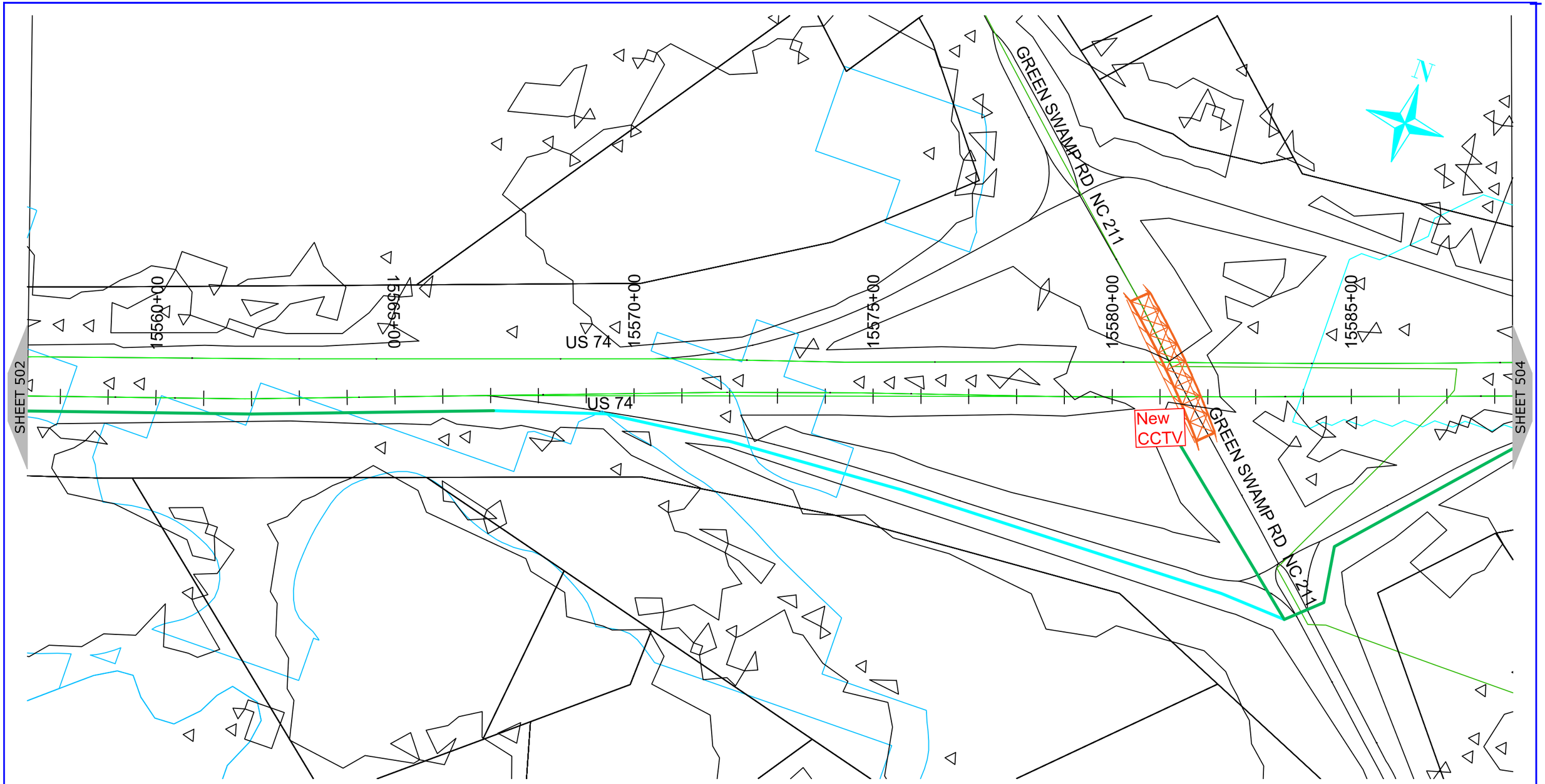
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 502

SHEET: 502

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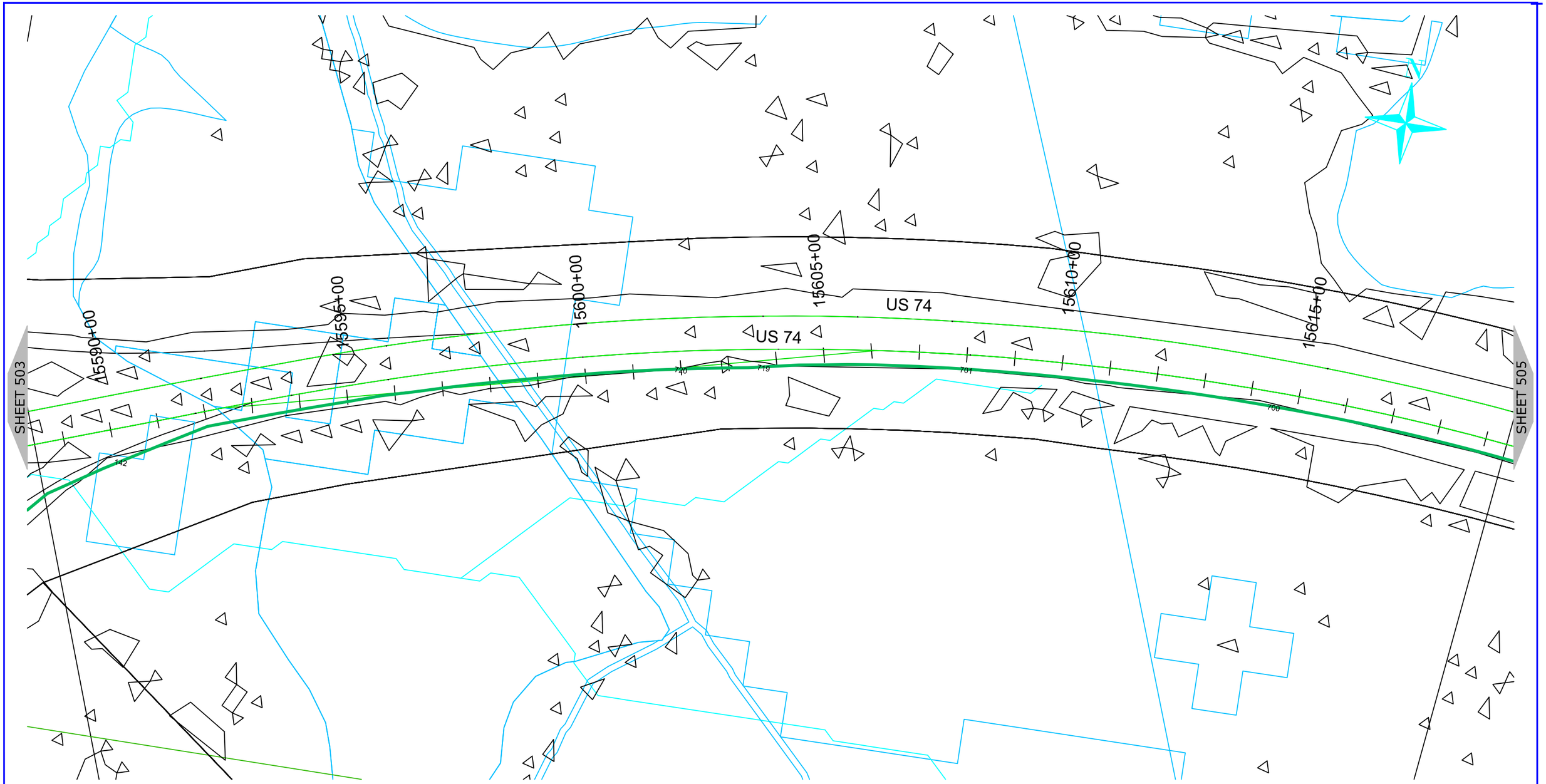
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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PROJECT NAME:
US 74

SHEET NAME:
503

SHEET:
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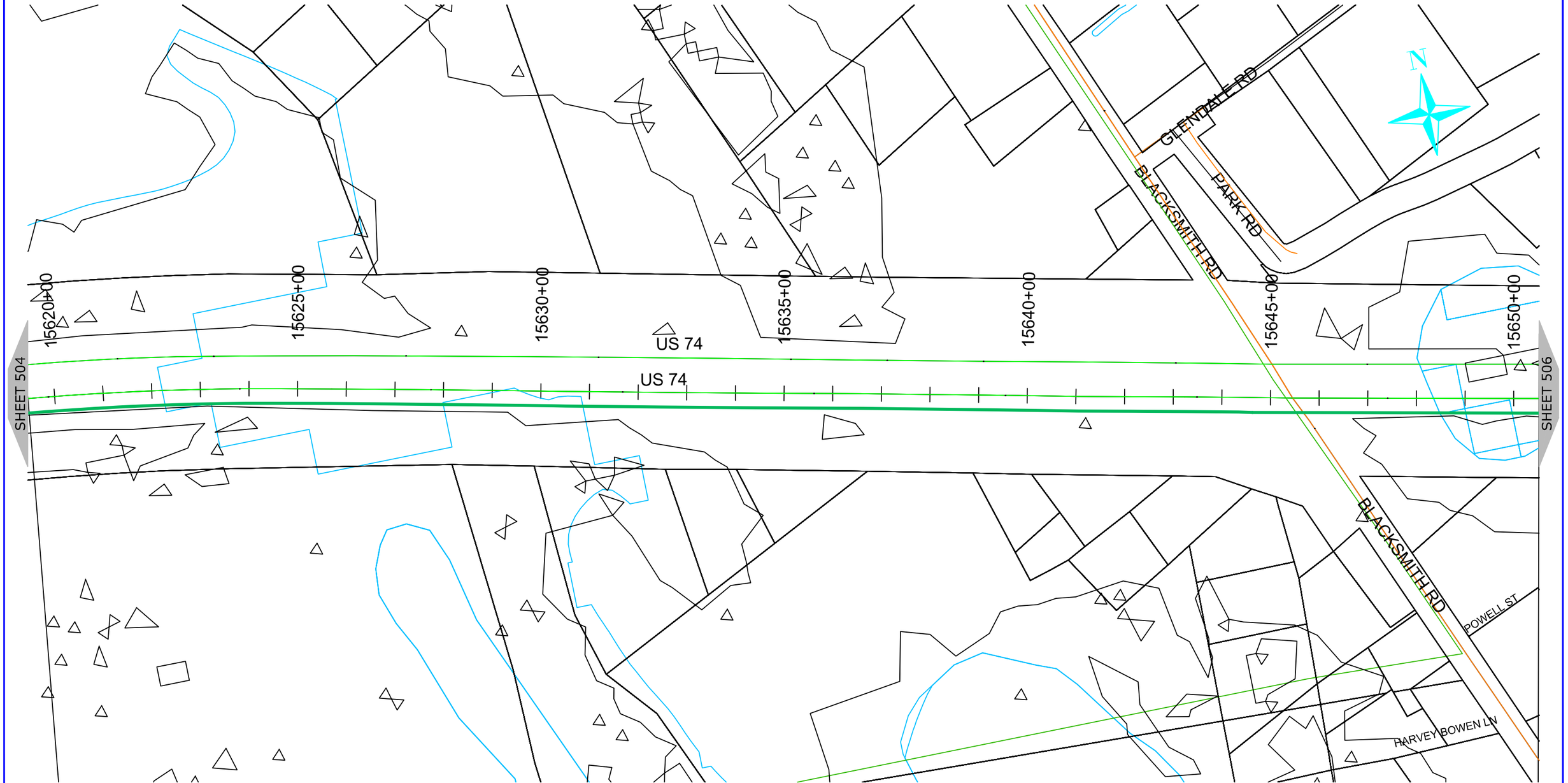
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DATE:	12-05-2021
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PROJECT NAME: US 74

SHEET NAME: 504

SHEET: 504

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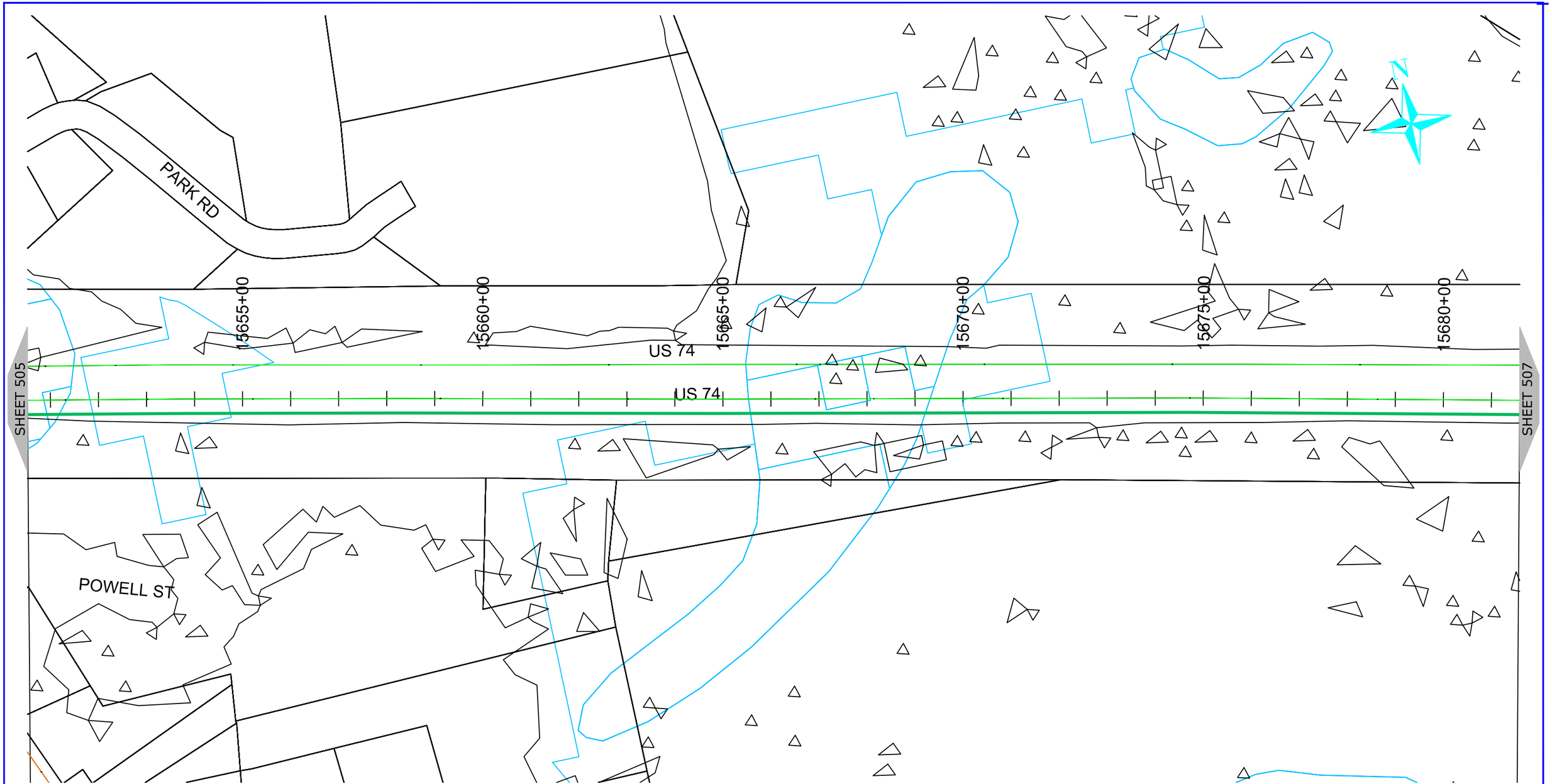
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 505

SHEET: 505

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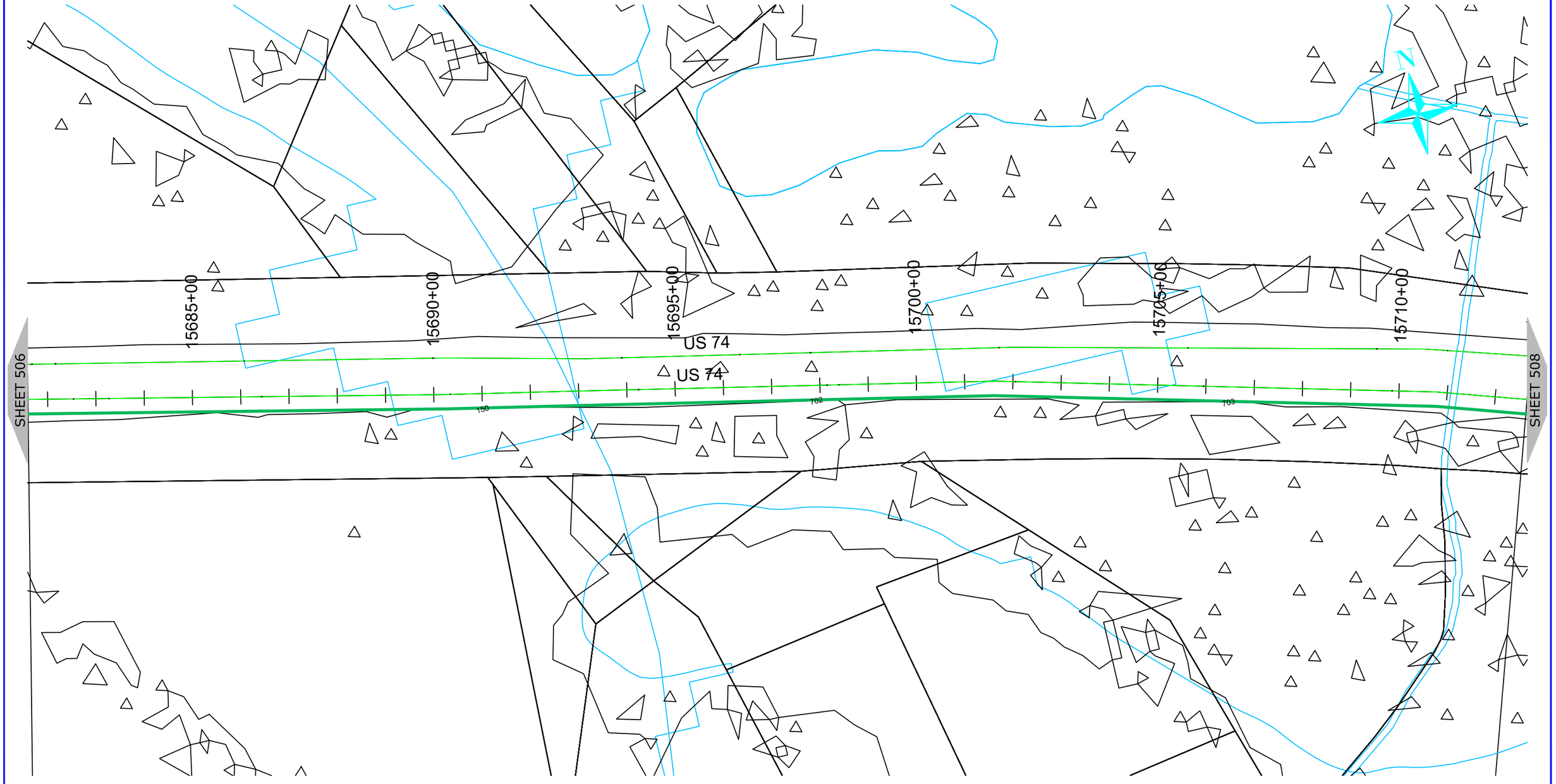
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 506

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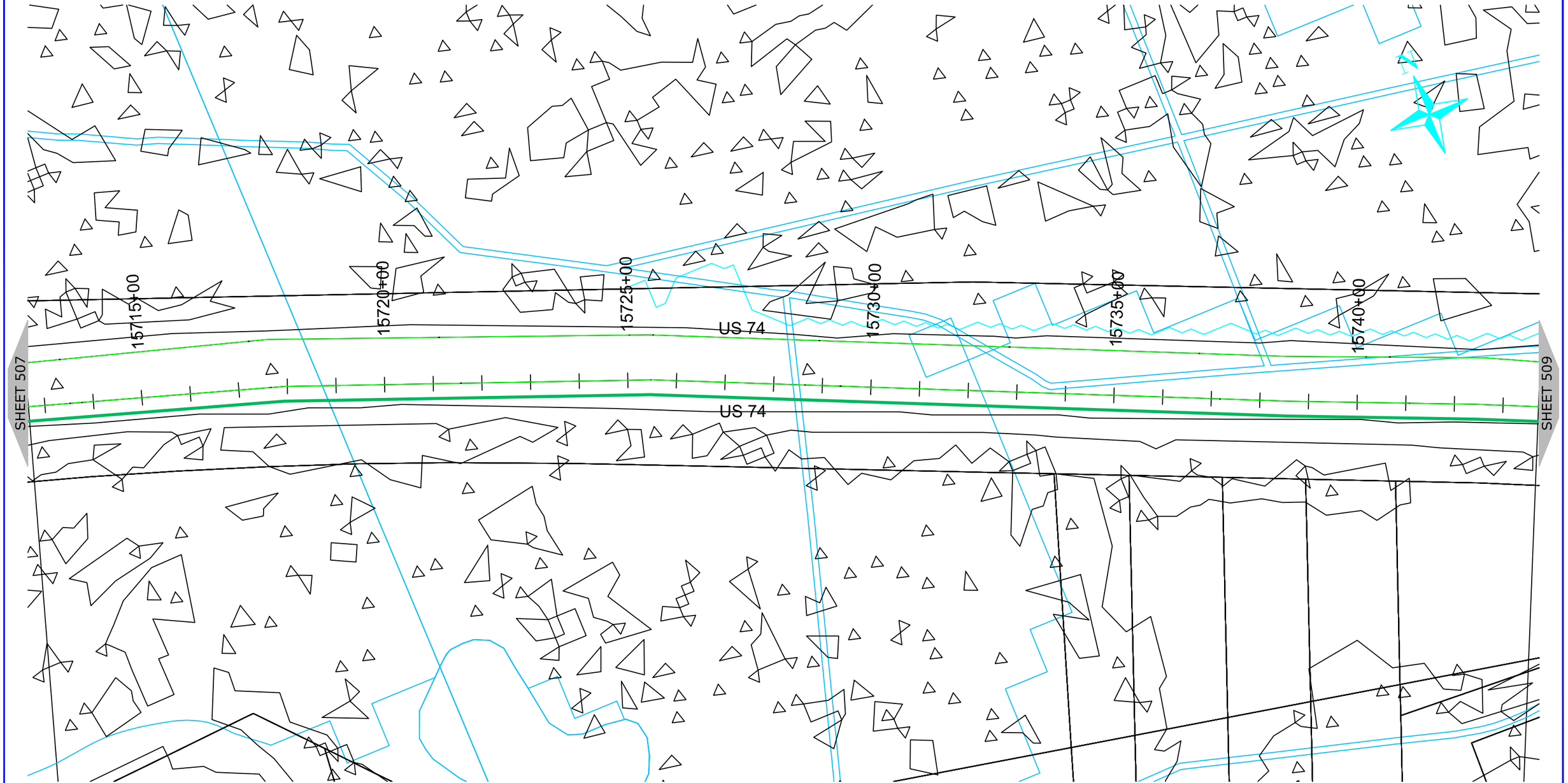
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 507

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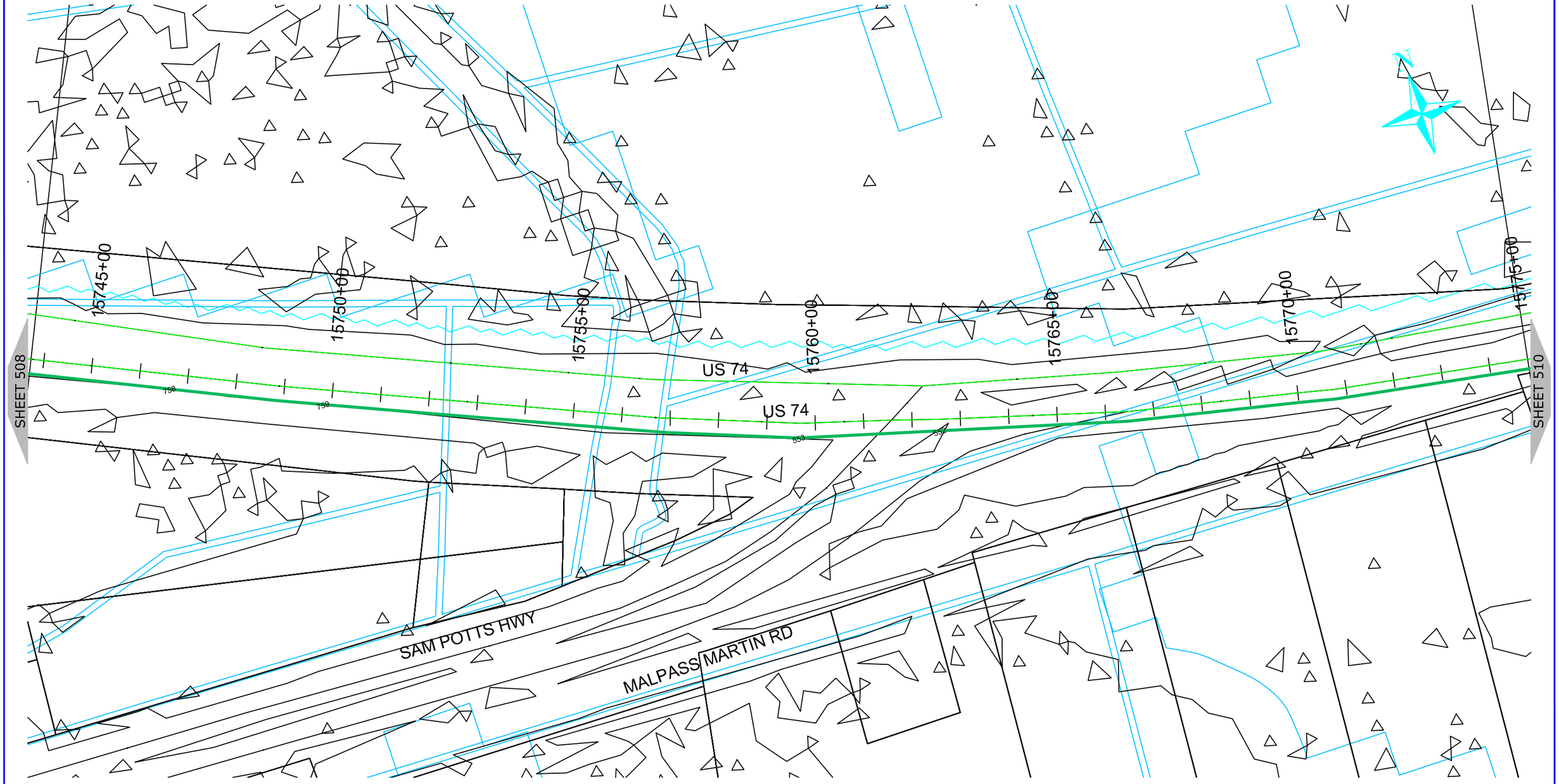
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 508

SHEET: 508

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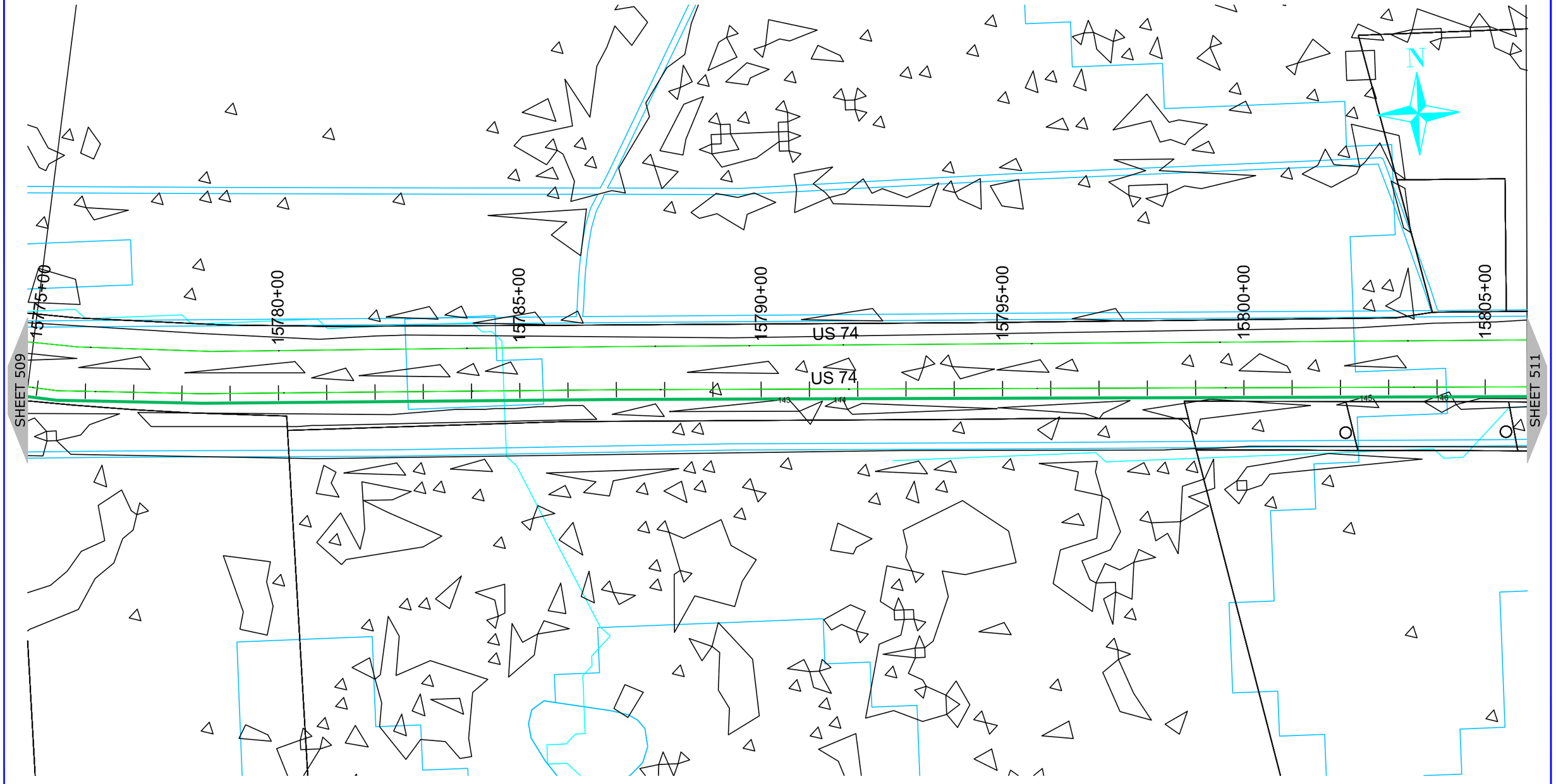
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 509

SHEET: 509

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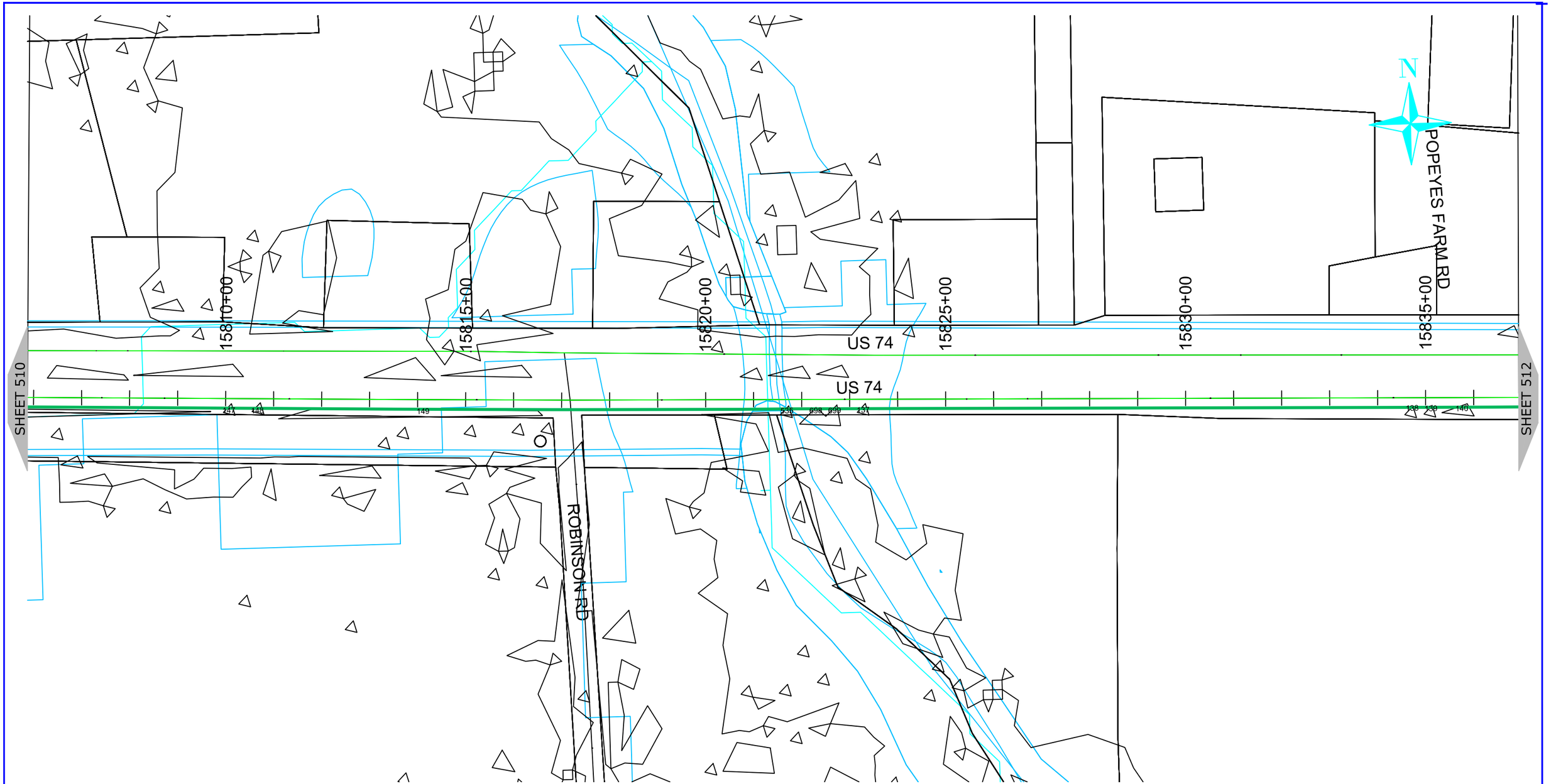
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 510

SHEET: 510

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0 200 400

HORIZONTAL SCALE: 1" = 200'

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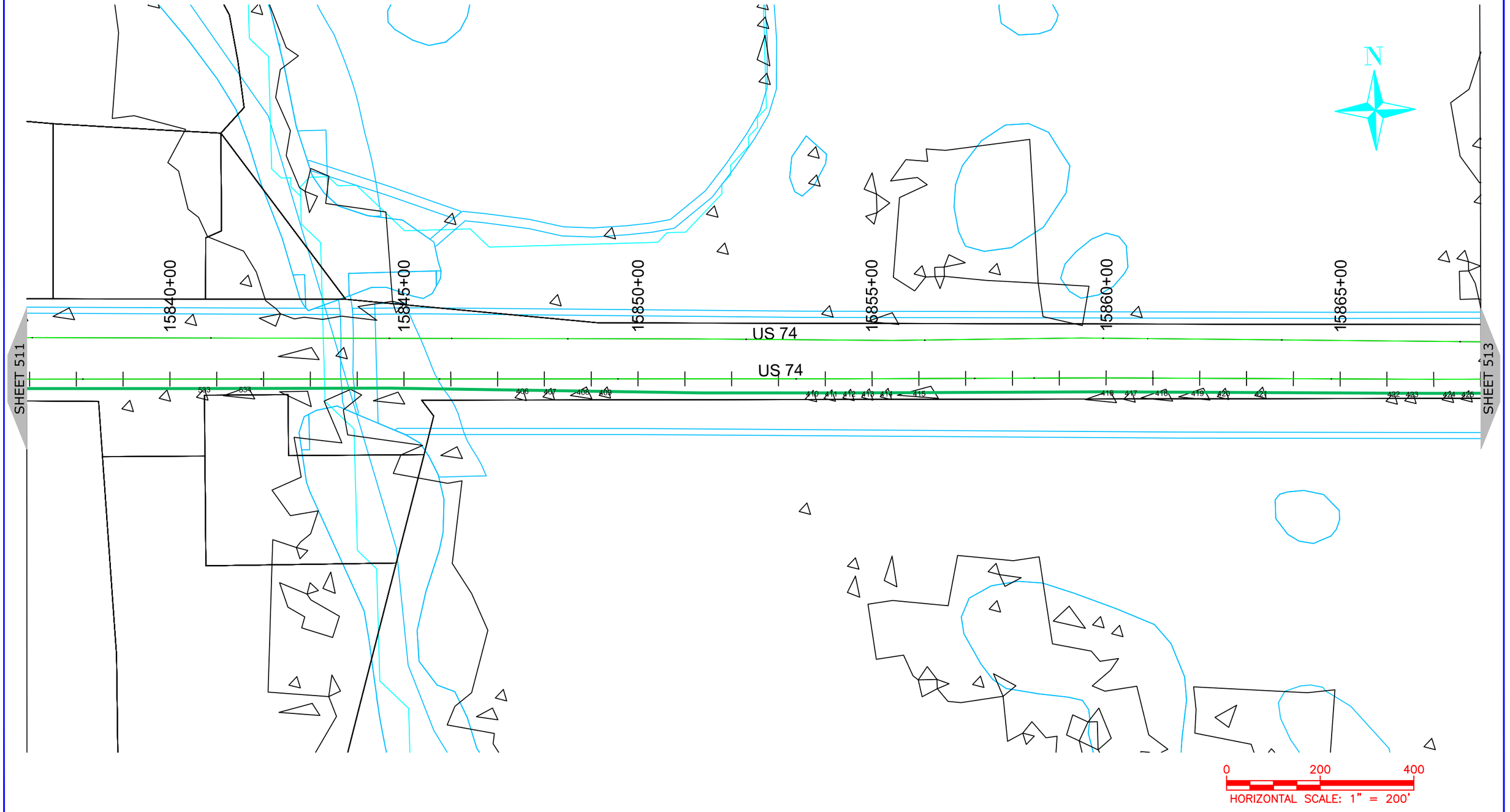
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 511

SHEET: 511

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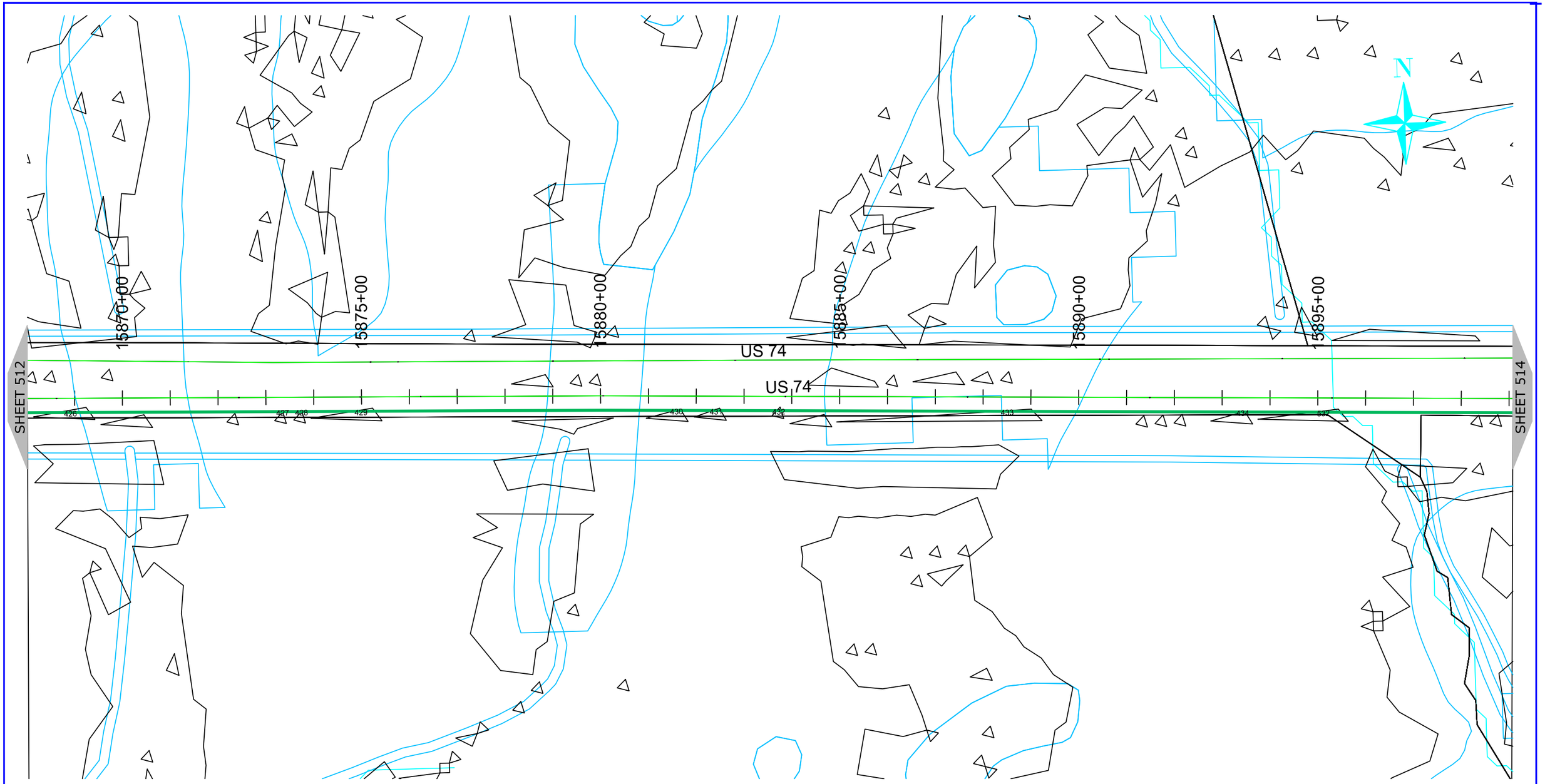
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DATE:	12-05-2021
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 512

SHEET: 512

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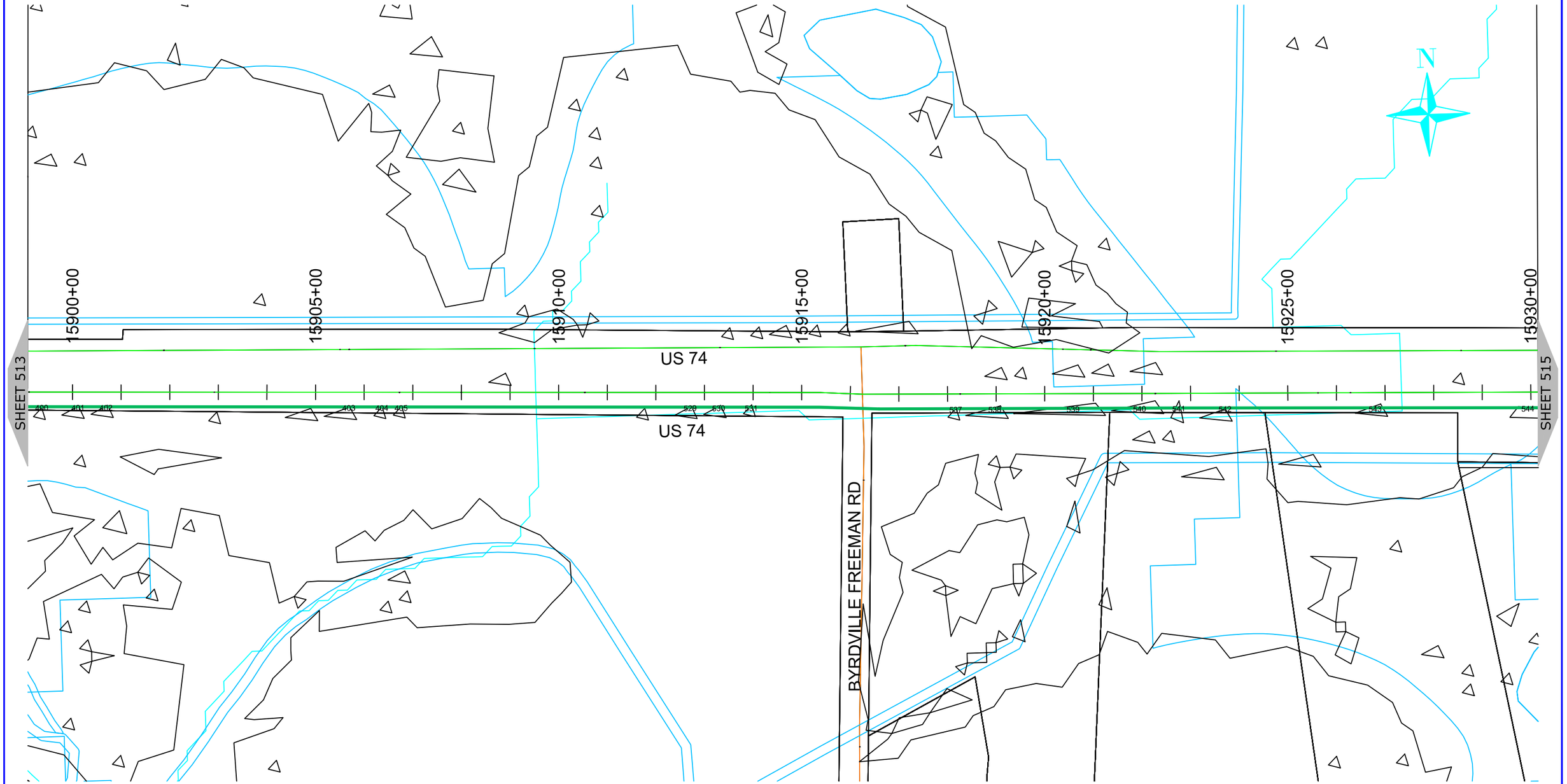
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PROJECT NAME: US 74

SHEET NAME: 513

SHEET: 513

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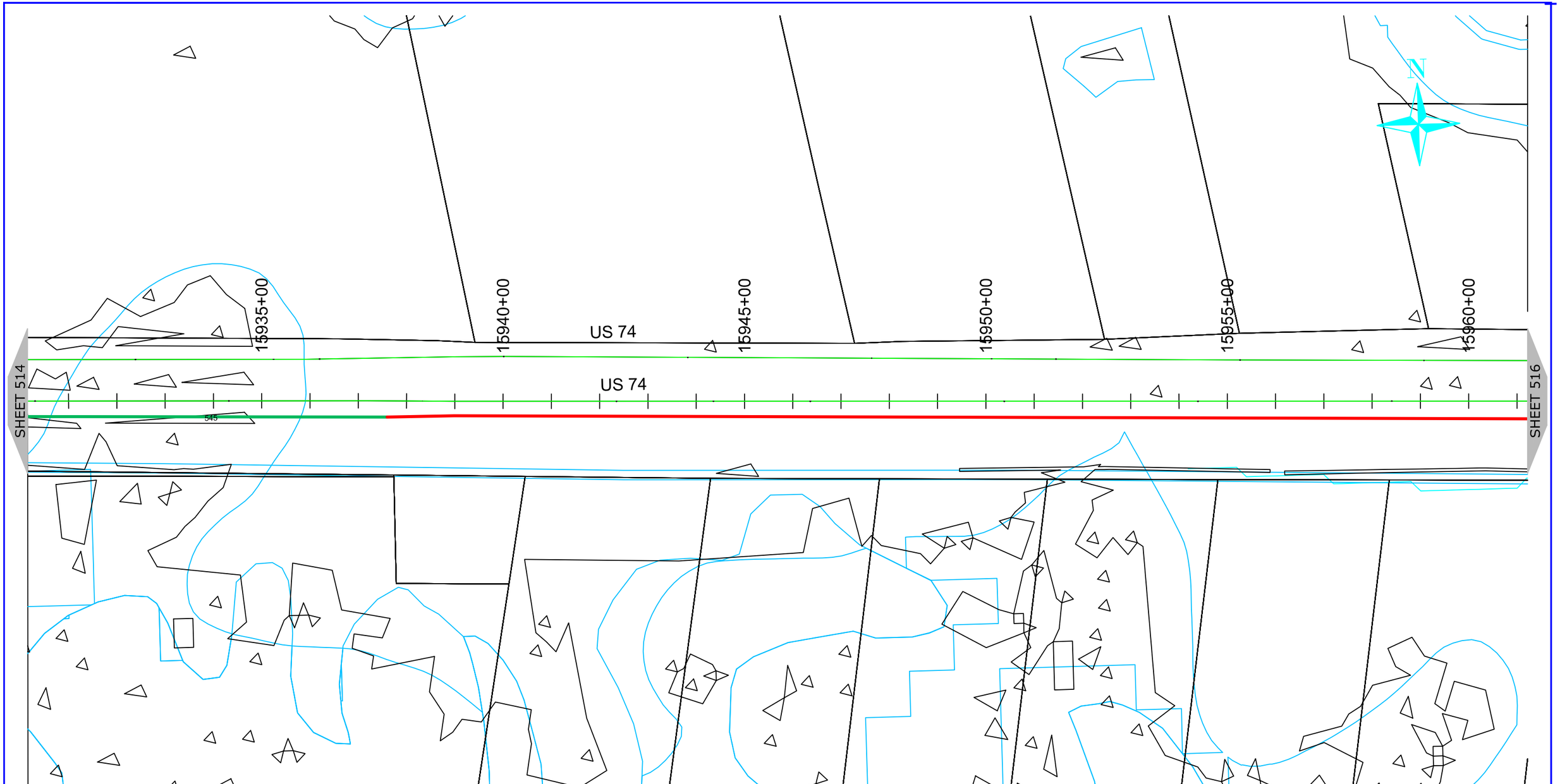
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DESIGNED BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 514

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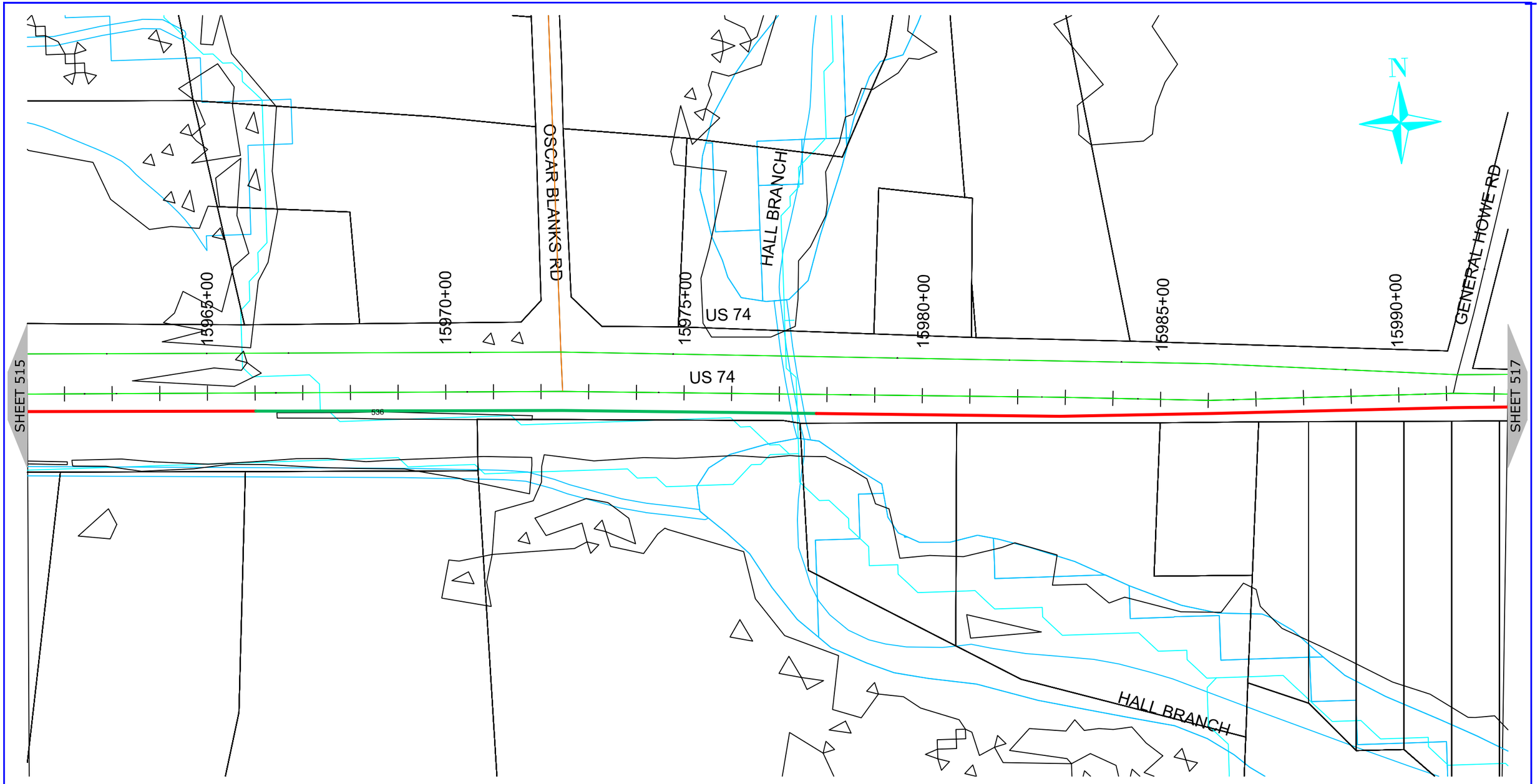
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PROJECT NAME: US 74

SHEET NAME: 515

SHEET: 515

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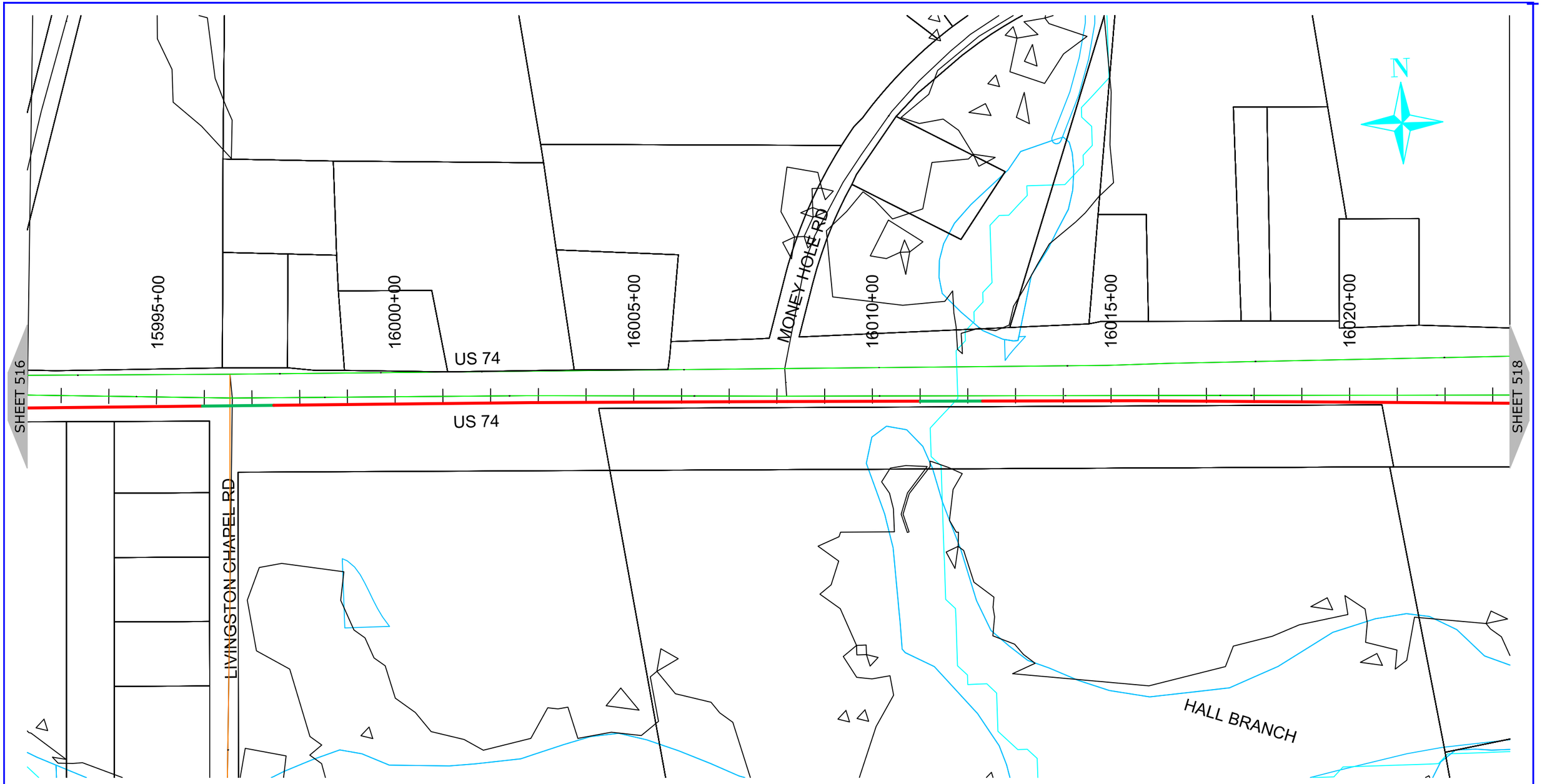
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME:
US 74

SHEET NAME:
516

SHEET:
516

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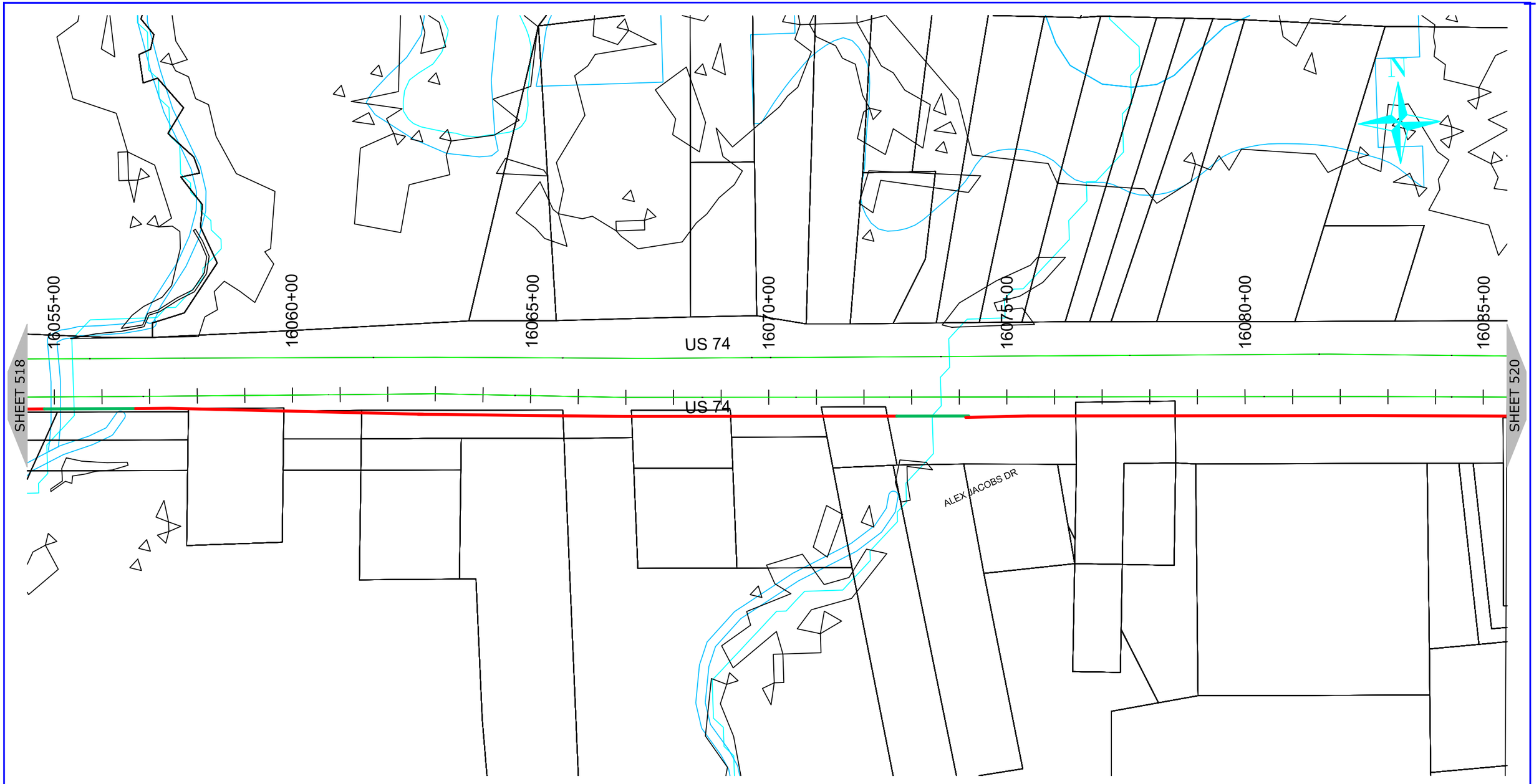
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 517

SHEET: 517

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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME:
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SHEET NAME:
519

SHEET:
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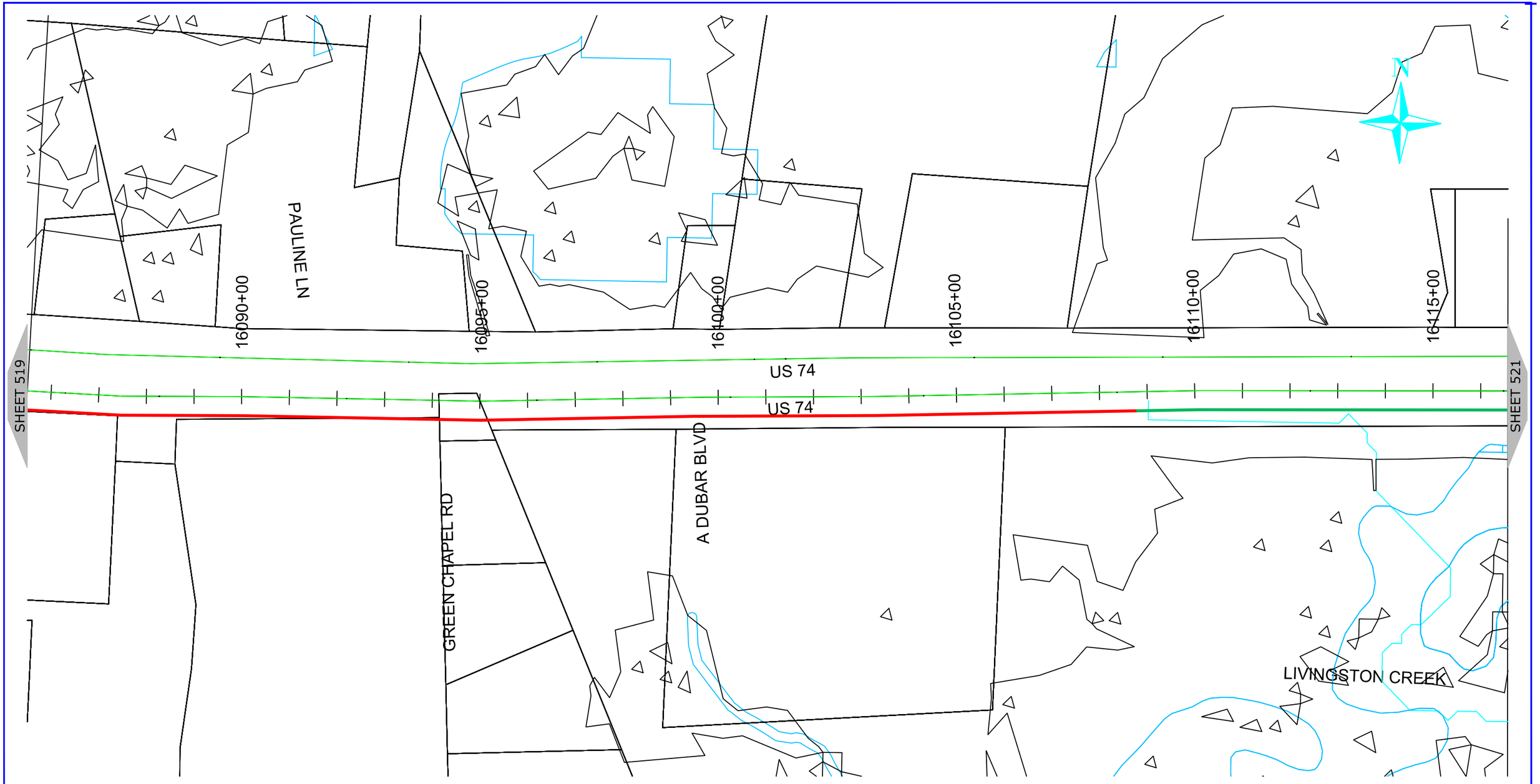
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SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 518

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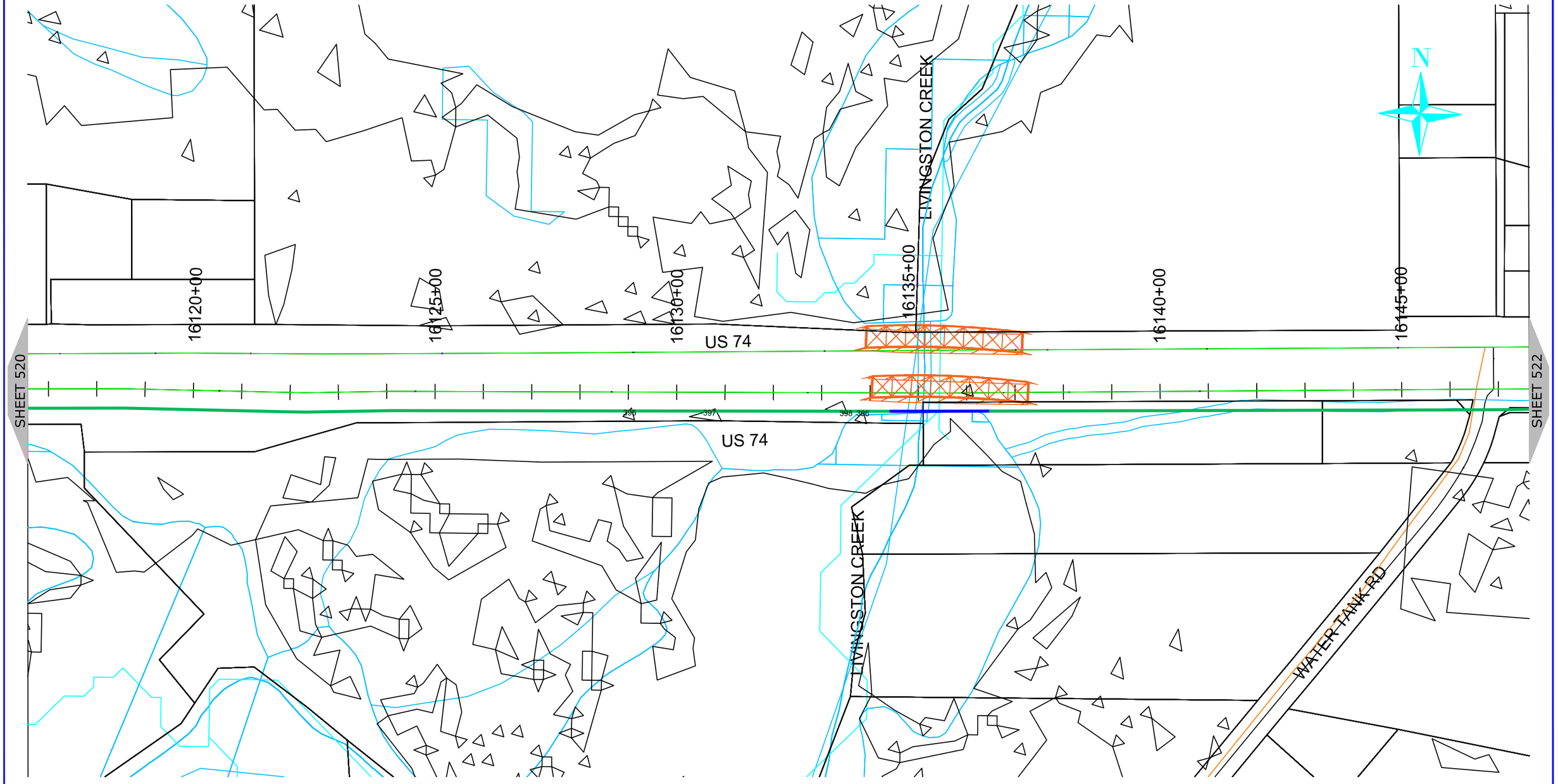
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 520

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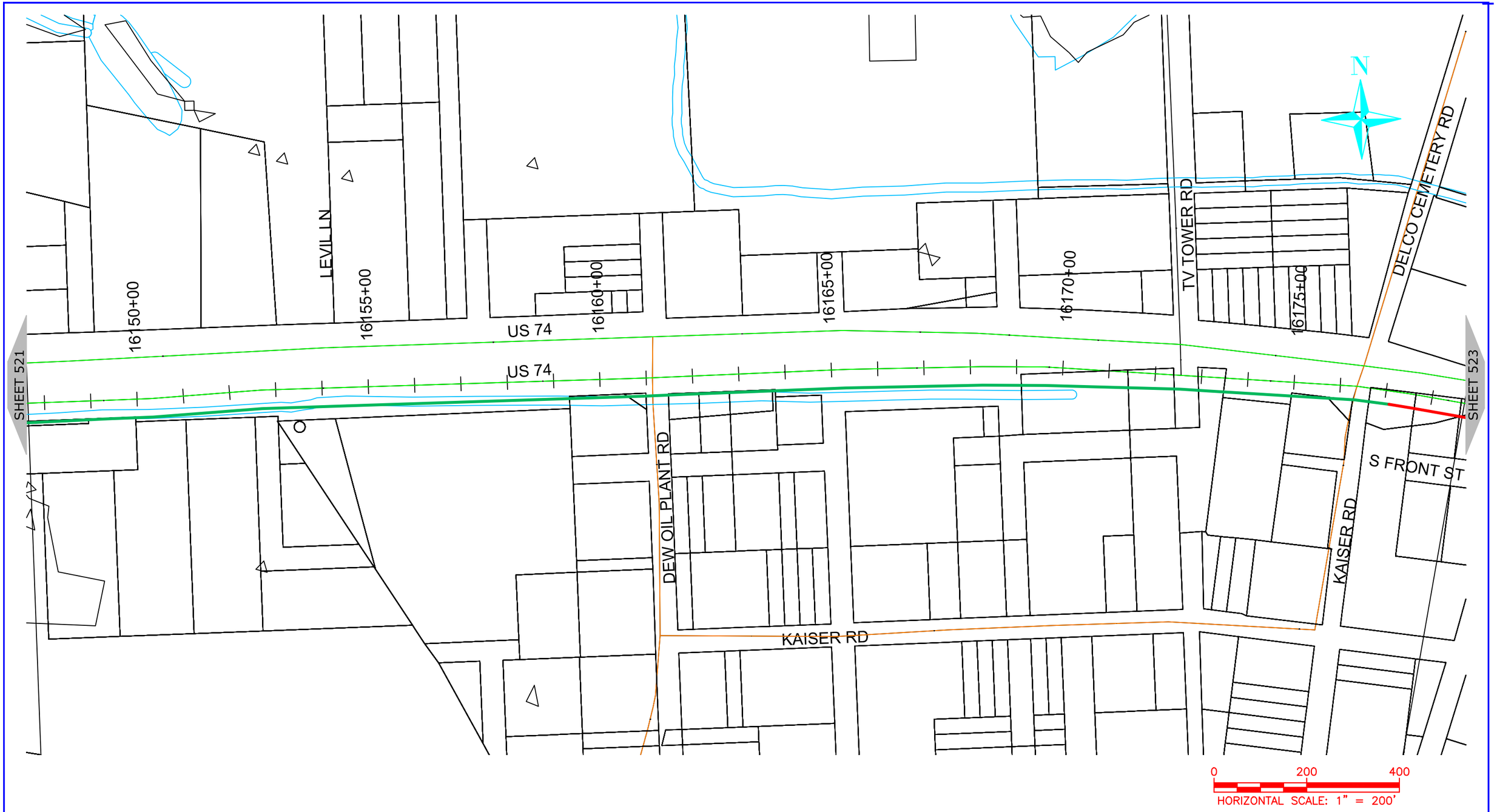
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 521

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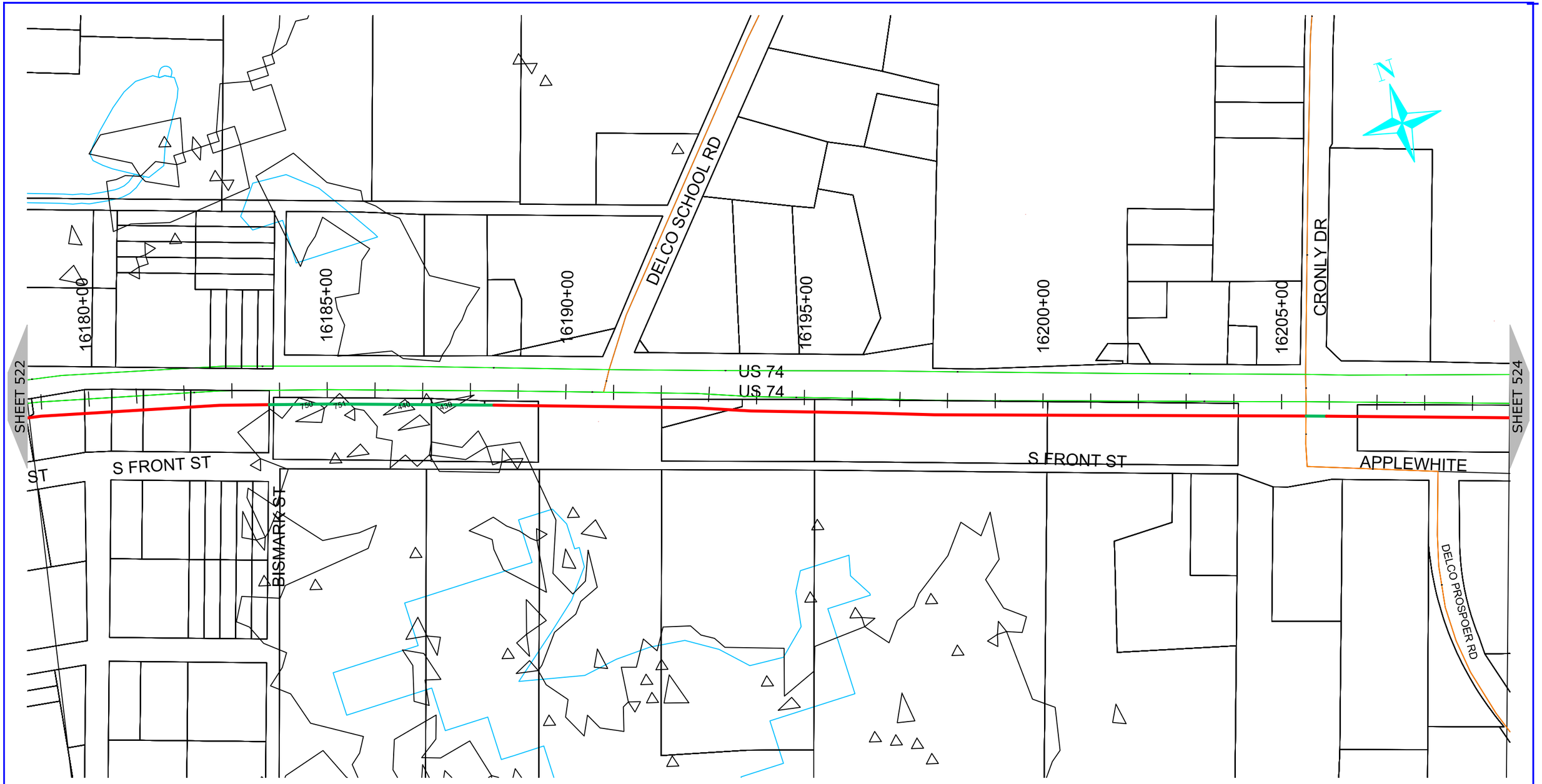
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US 74

SHEET NAME:
522

SHEET:
522

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3315 ATLANTIC AVE
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REV	DATE	DESCRIPTION
		COLUMBUS

OWNER:

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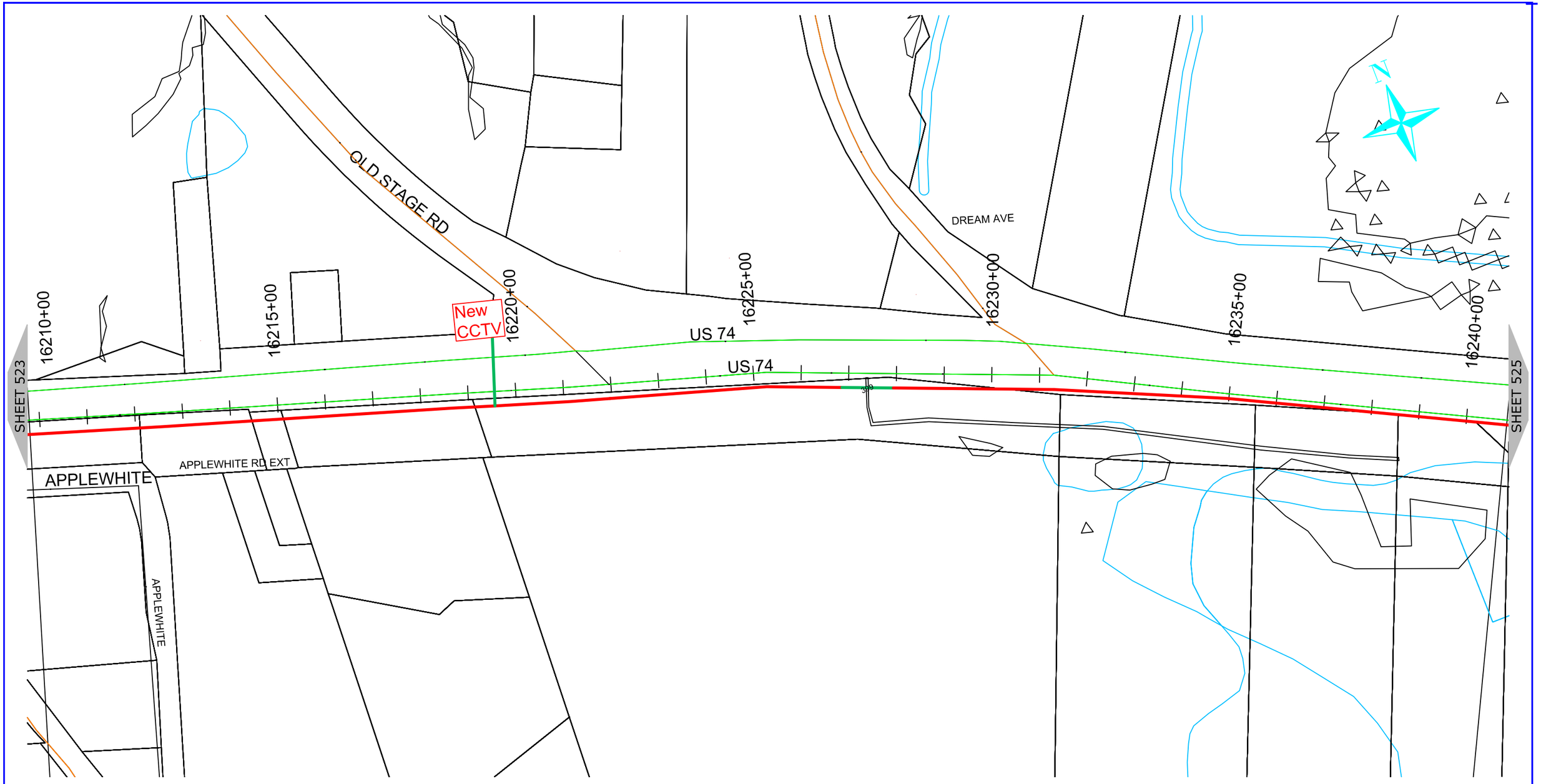
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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APPROVED BY:	---

PROJECT NAME:
US 74

SHEET NAME:
523

SHEET:
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REV	DATE	DESCRIPTION
		COLUMBUS

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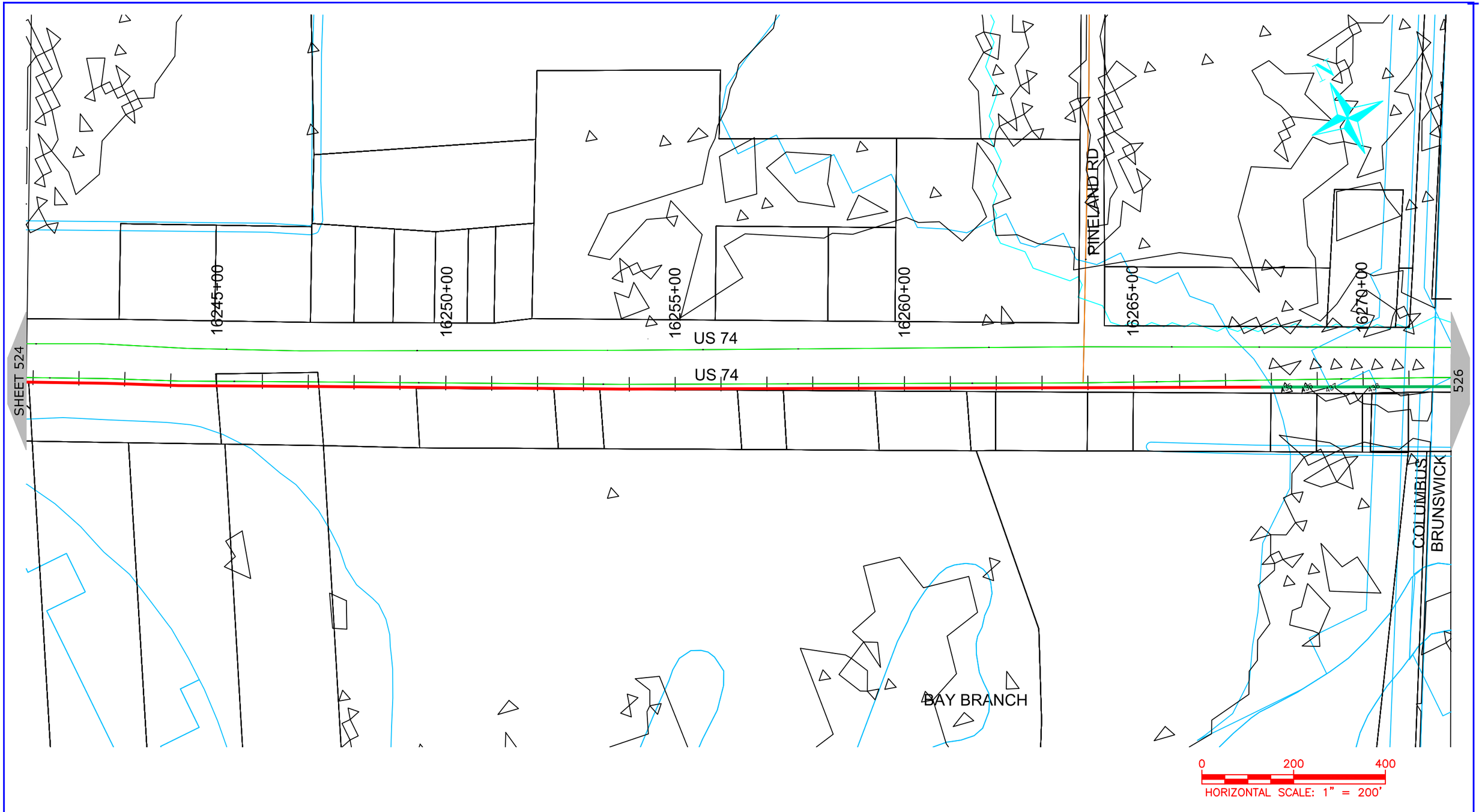
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 524

SHEET: 524

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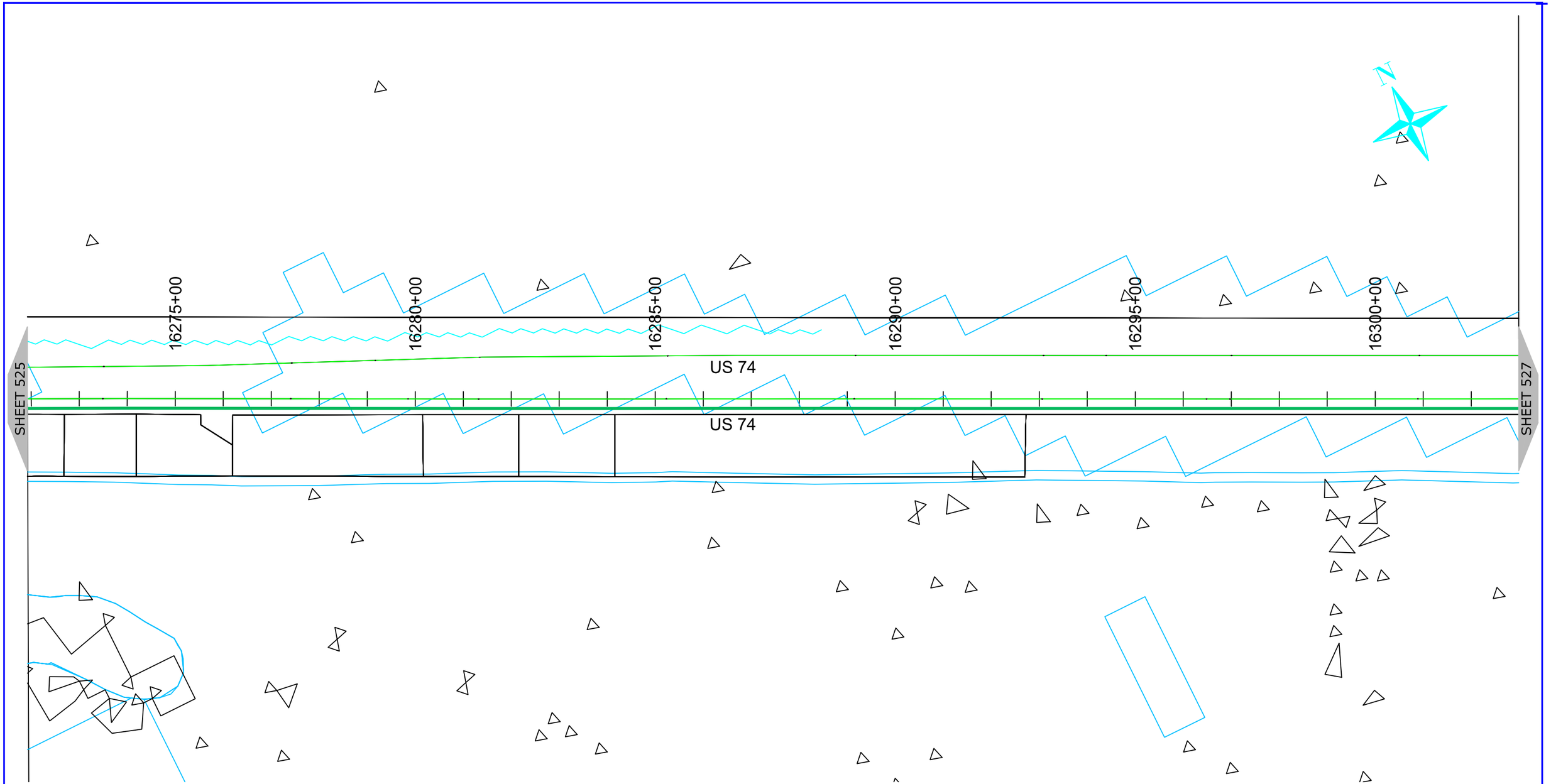
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 525

SHEET: 525

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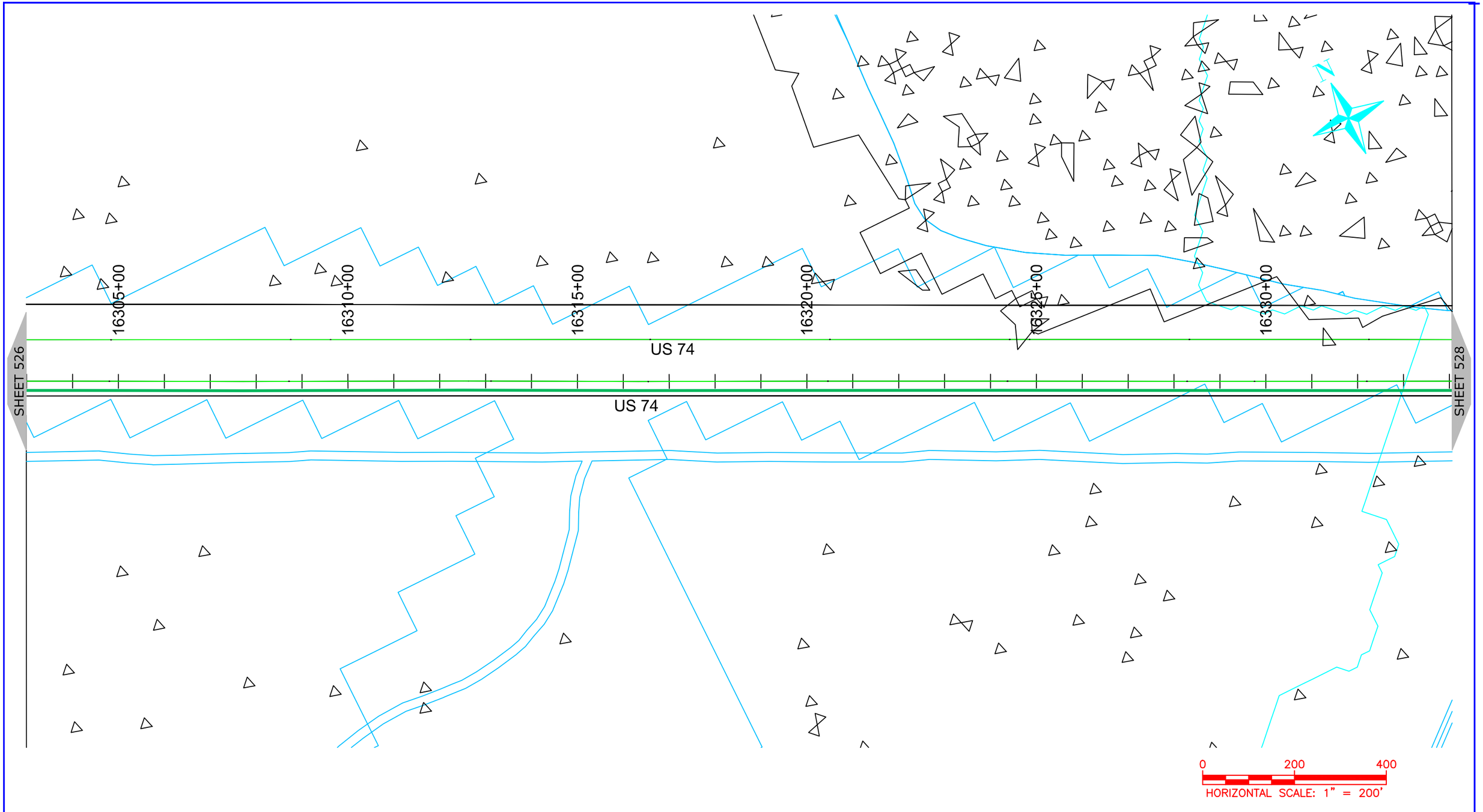
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 526

SHEET: 526

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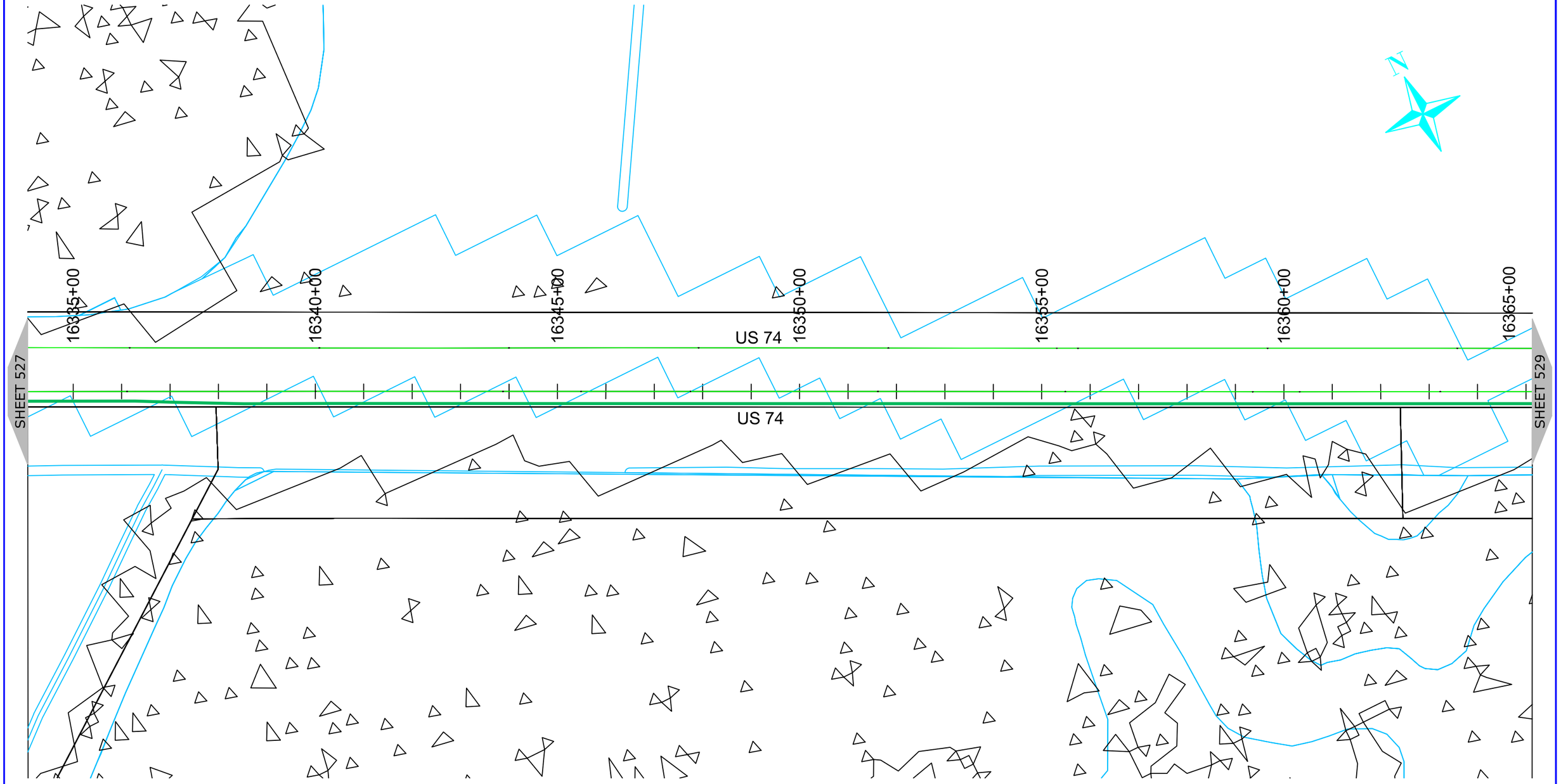
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 527

SHEET: 527

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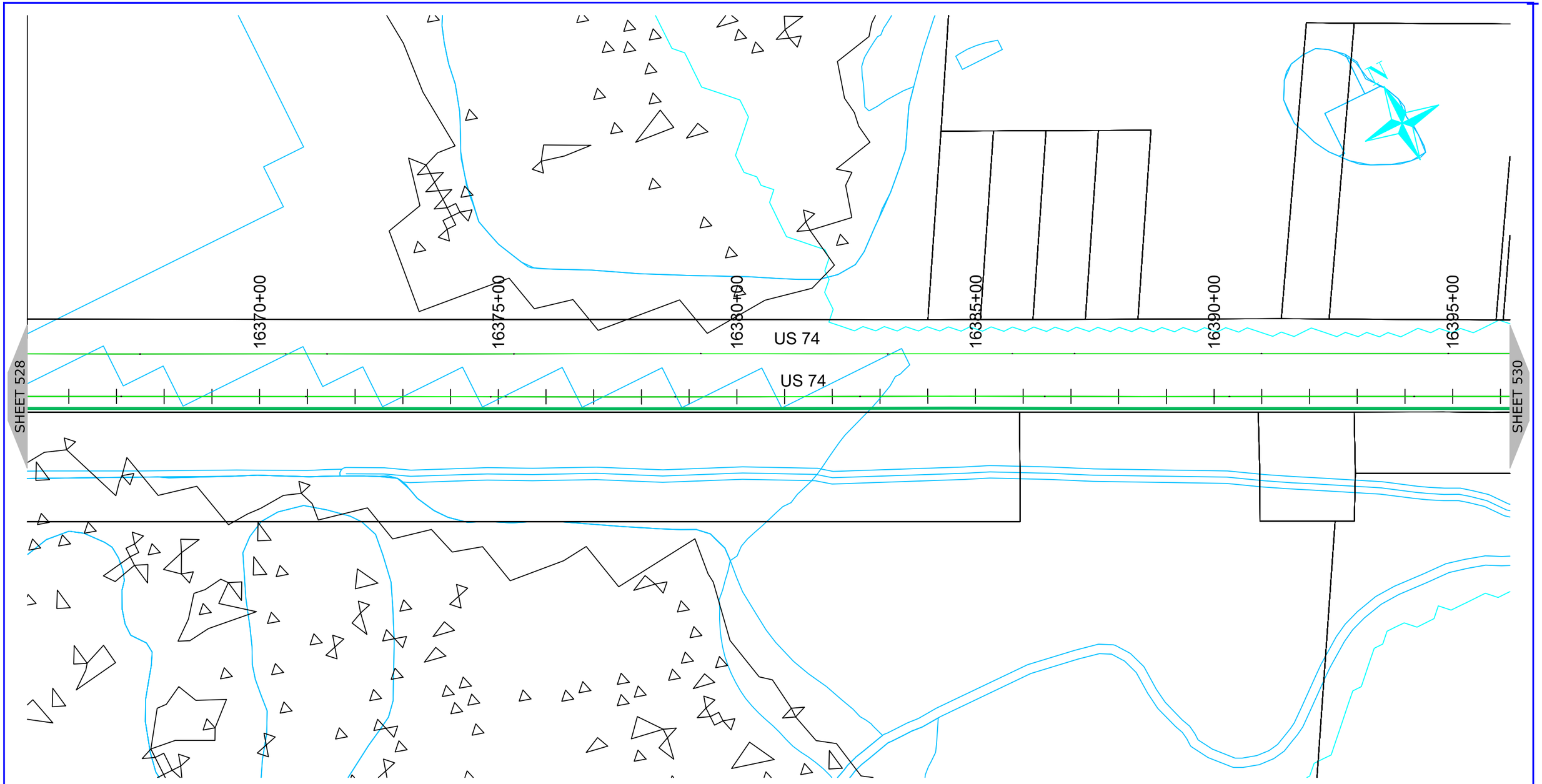
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 528

SHEET: 528

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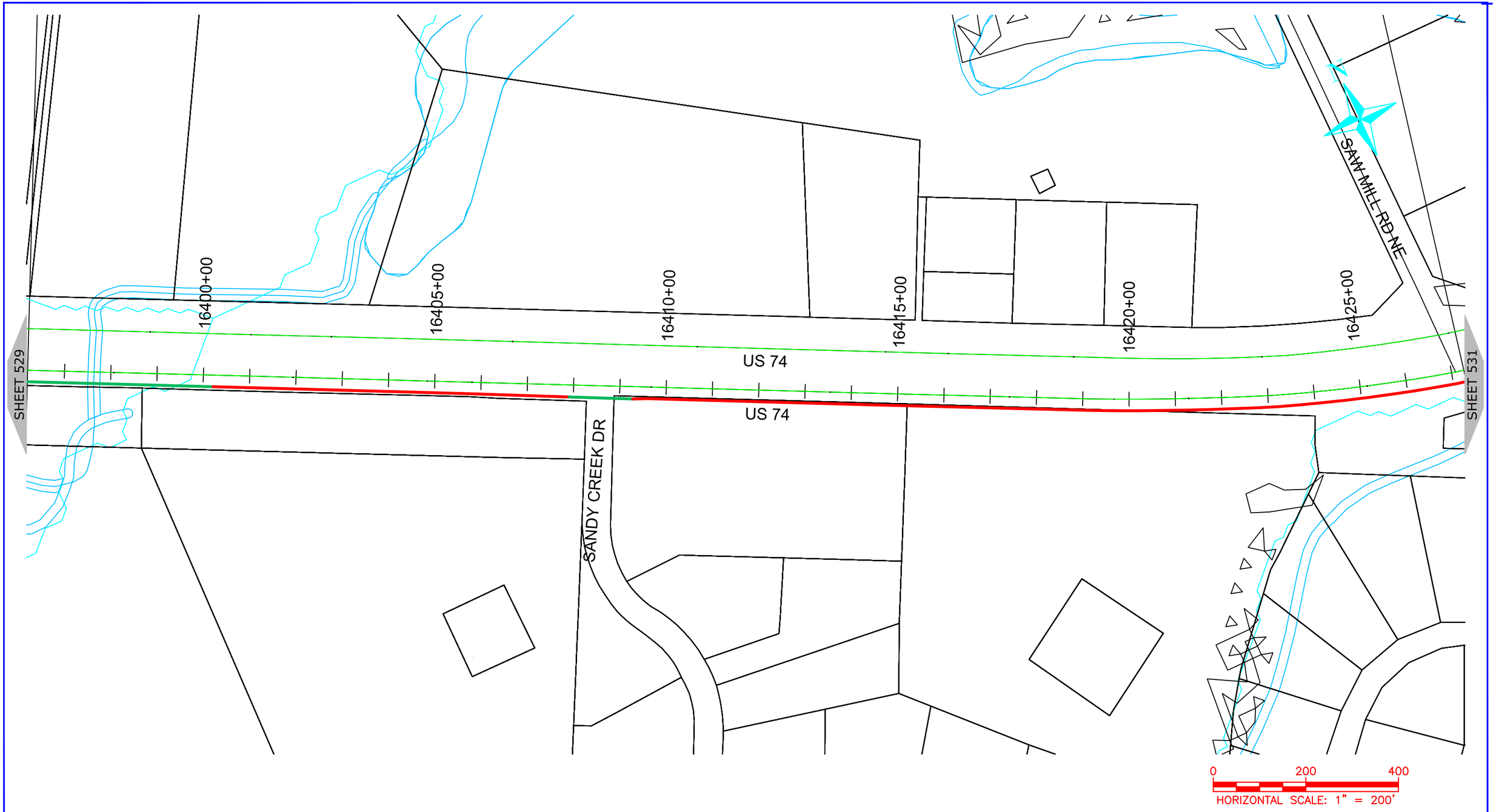
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 529

SHEET: 529

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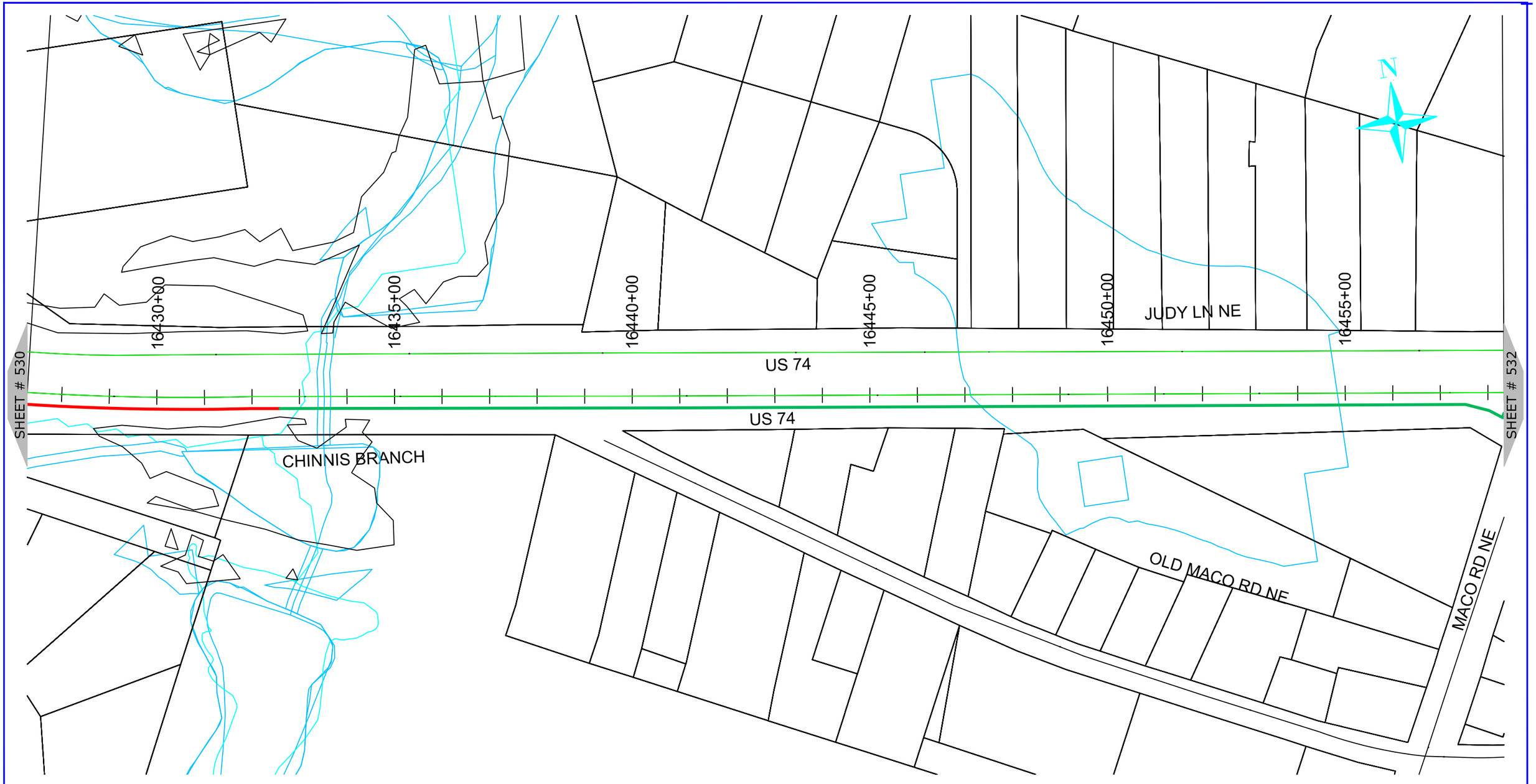
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DATE:	12-05-2021
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 530

SHEET: 530

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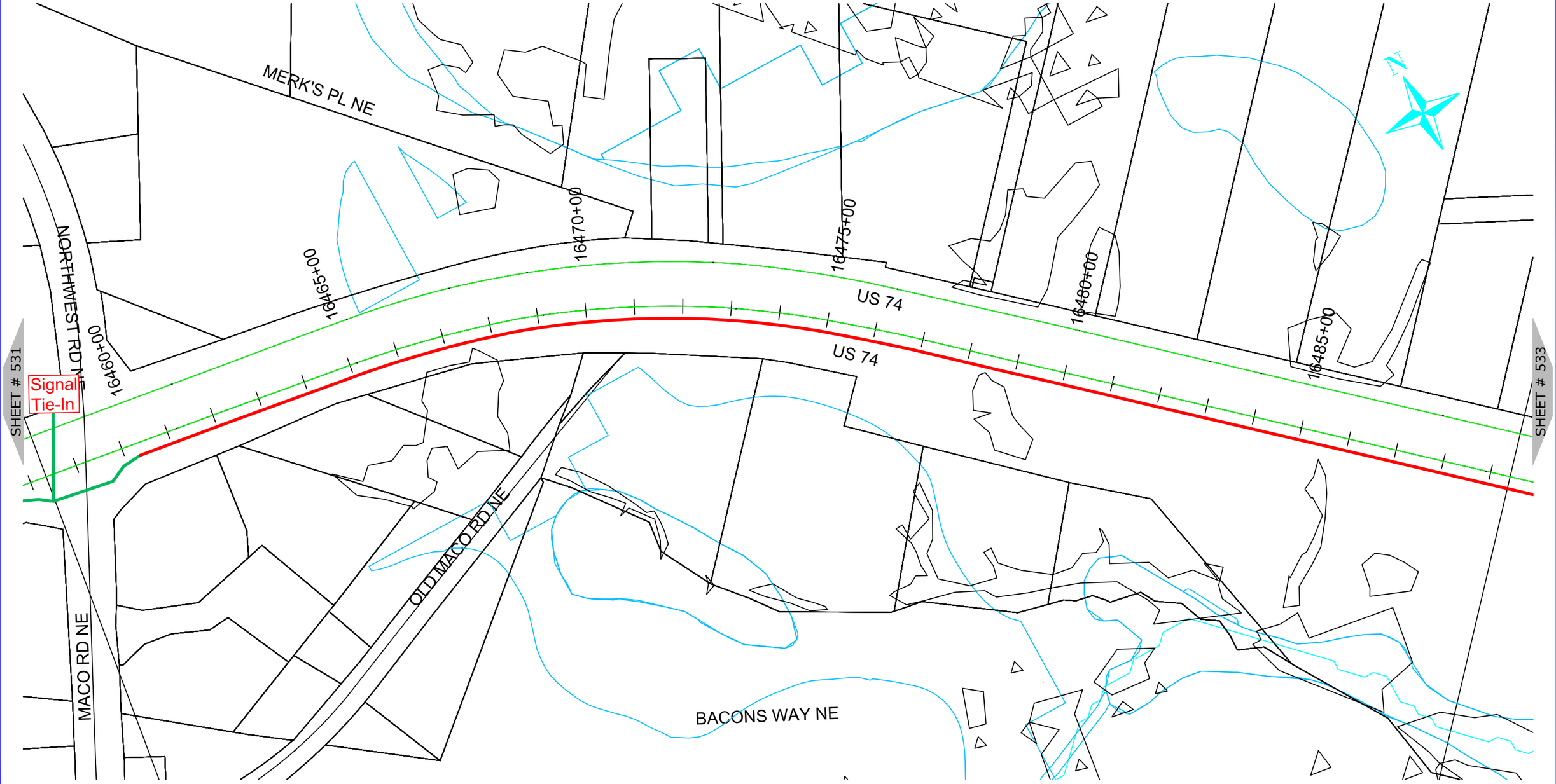
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 531

SHEET: 531

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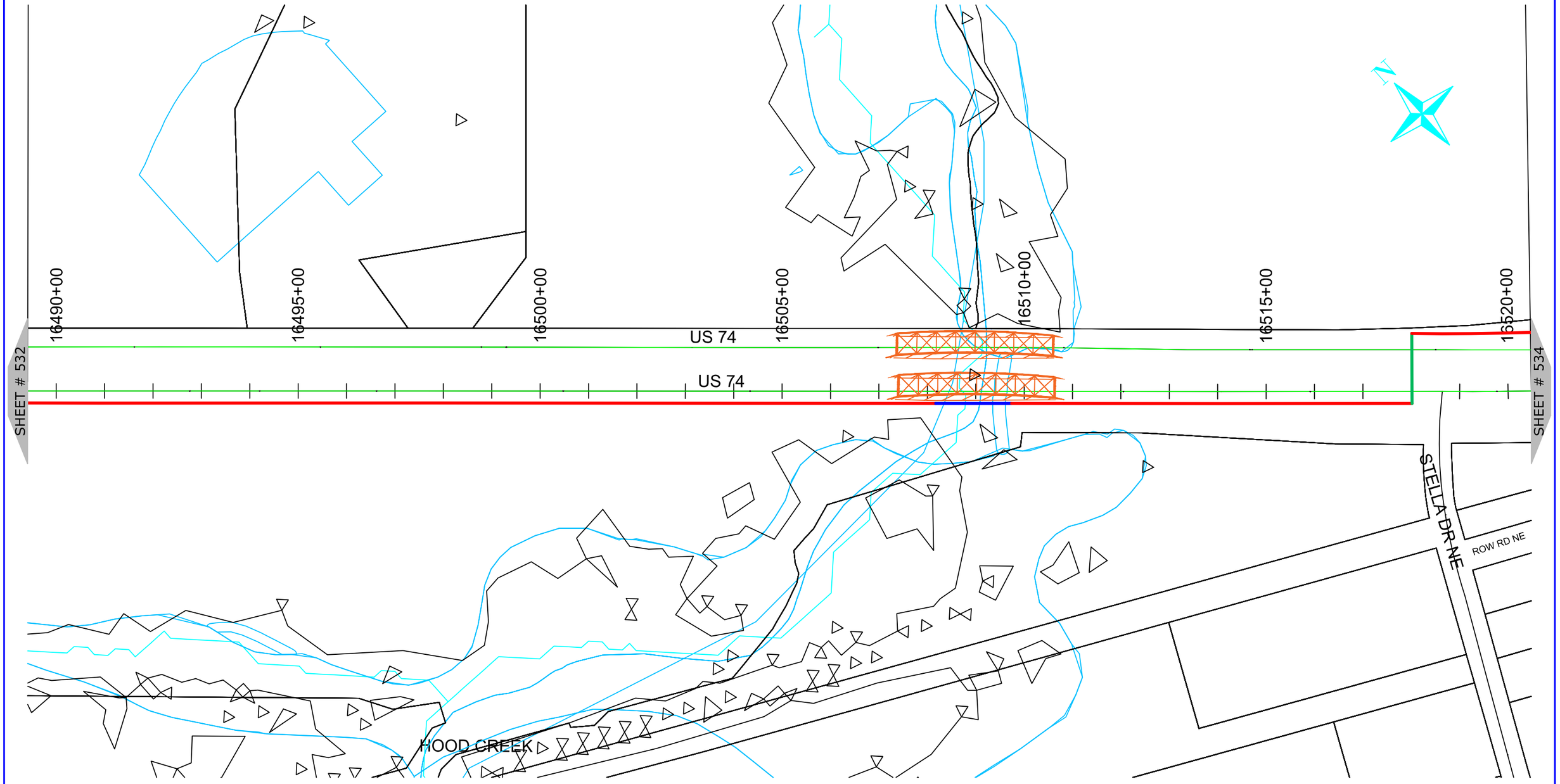
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SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 532

SHEET: 532

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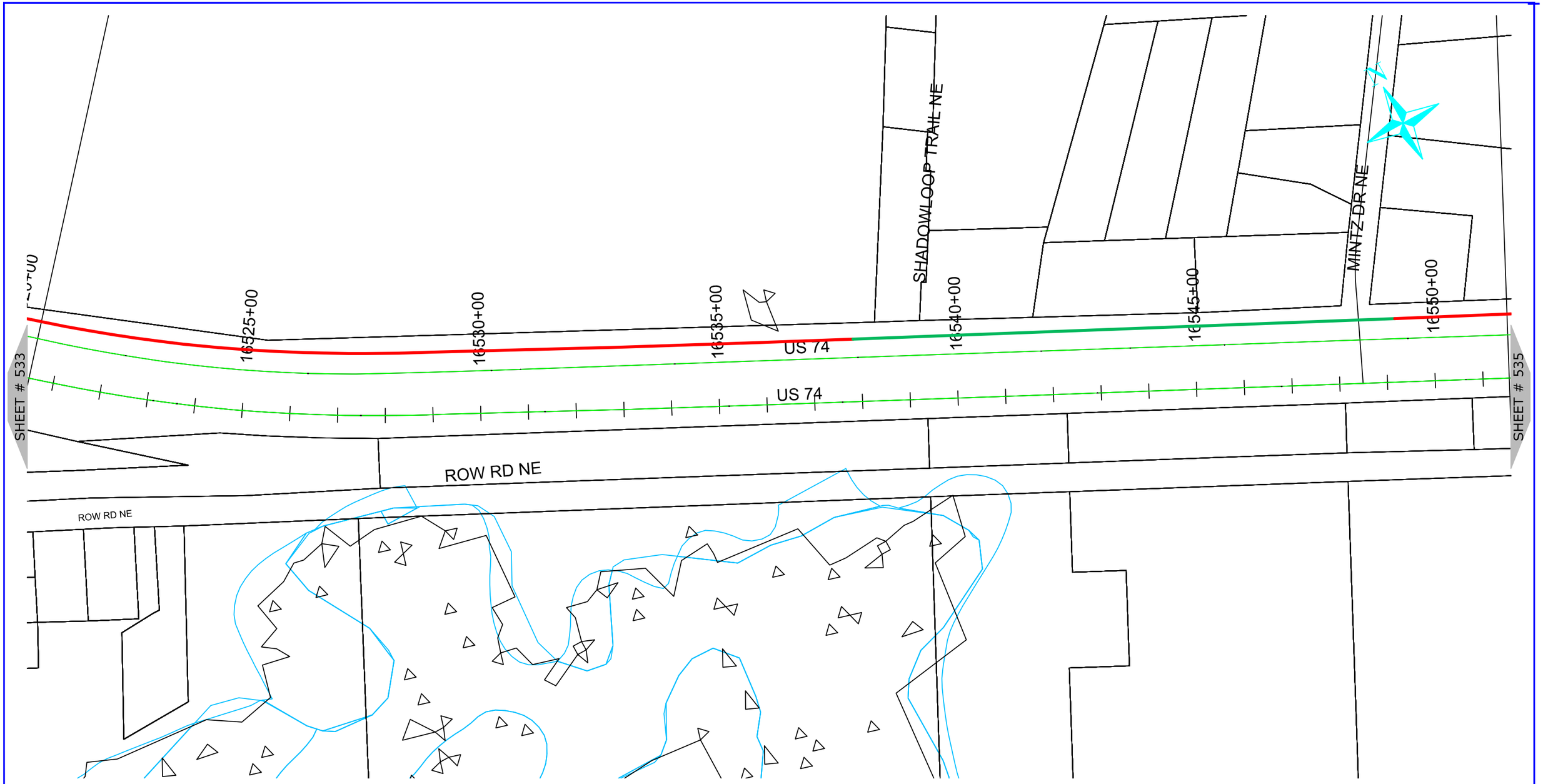
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 533

SHEET: 533

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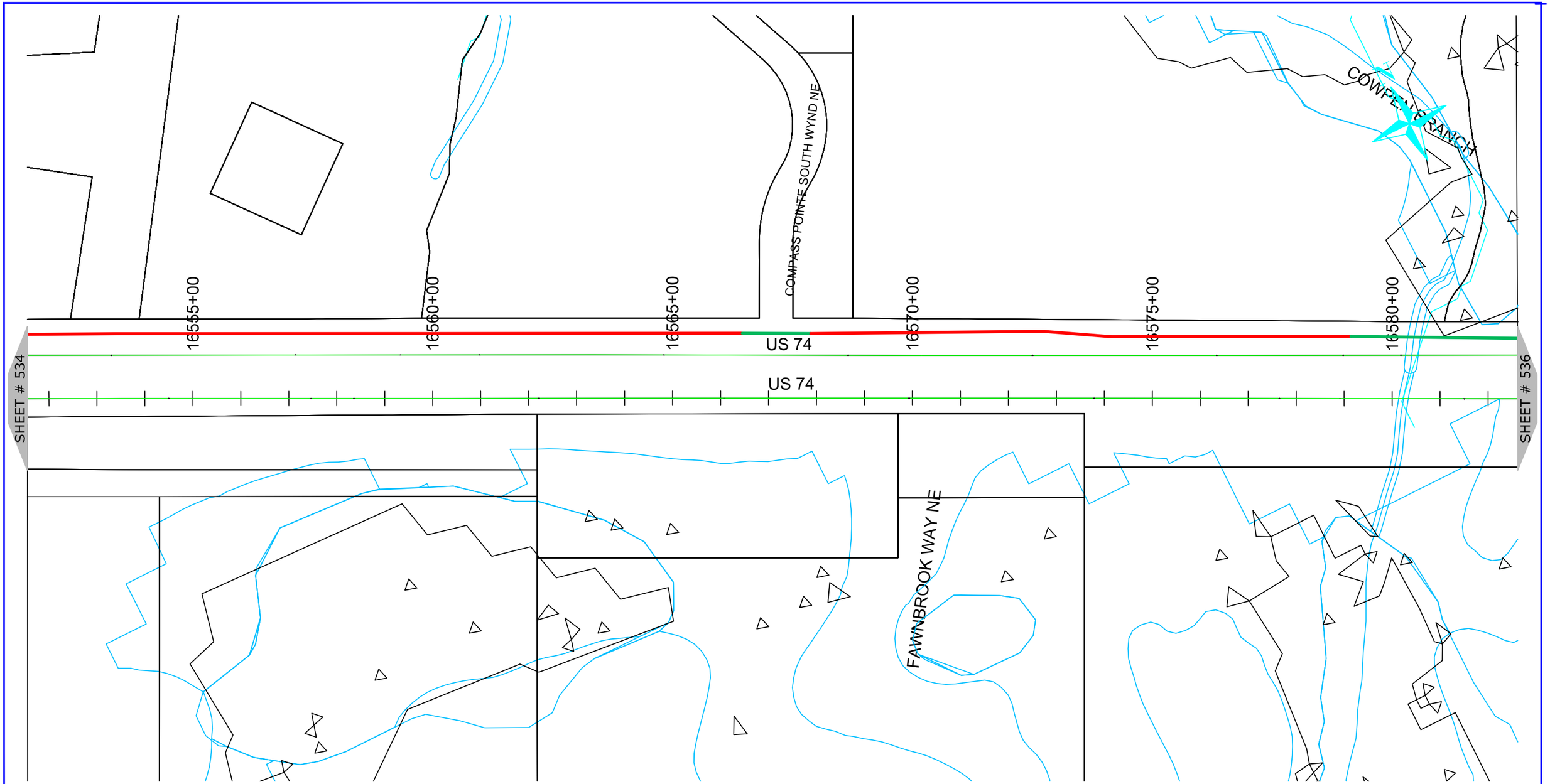
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY:	RAMTECH
DRAWN BY:	RAMTECH
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PROJECT NAME: US 74

SHEET NAME: 534

SHEET: 534

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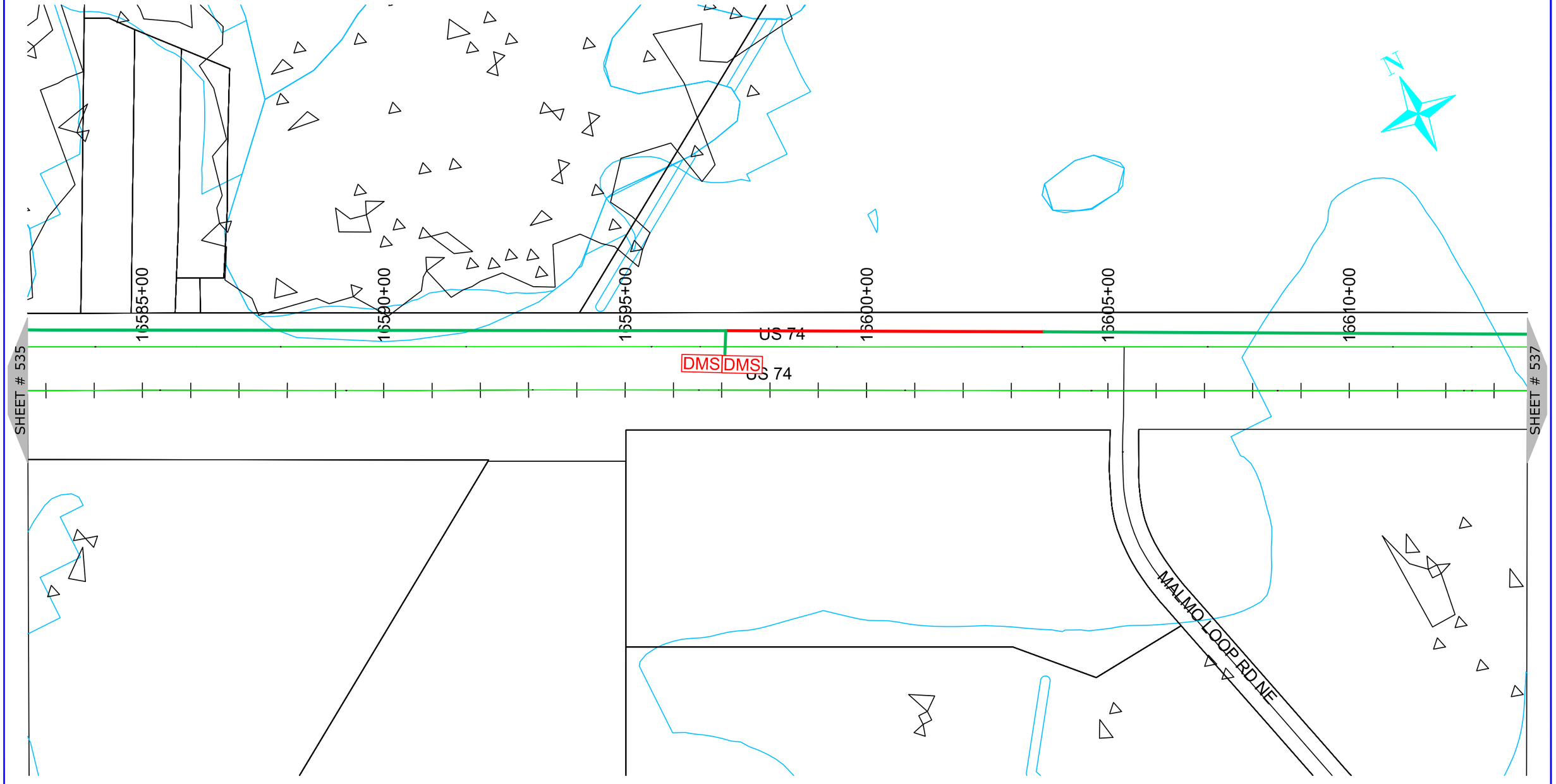
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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME: US 74

SHEET NAME: 535

SHEET: 535

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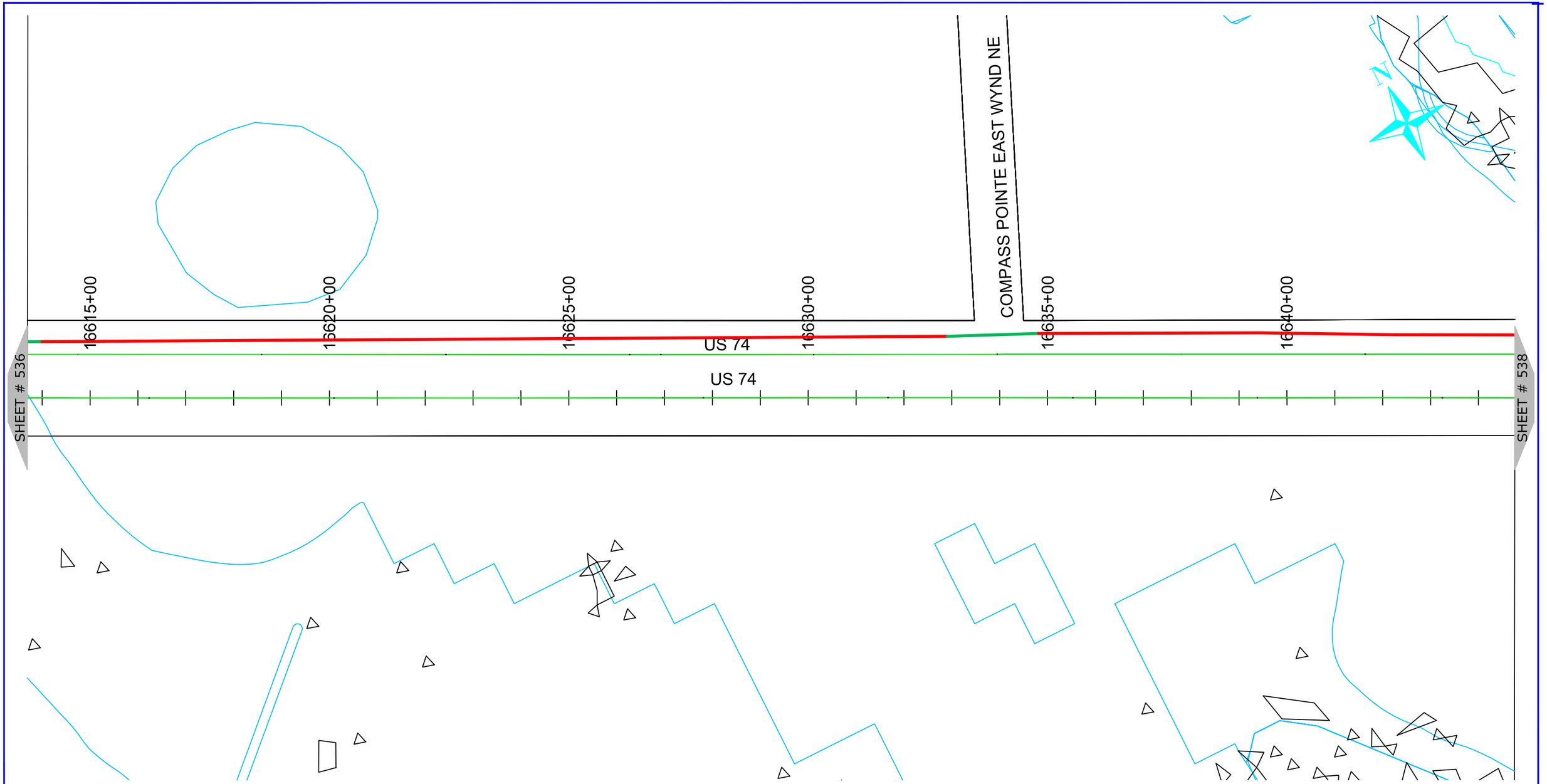
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 536

SHEET: 536

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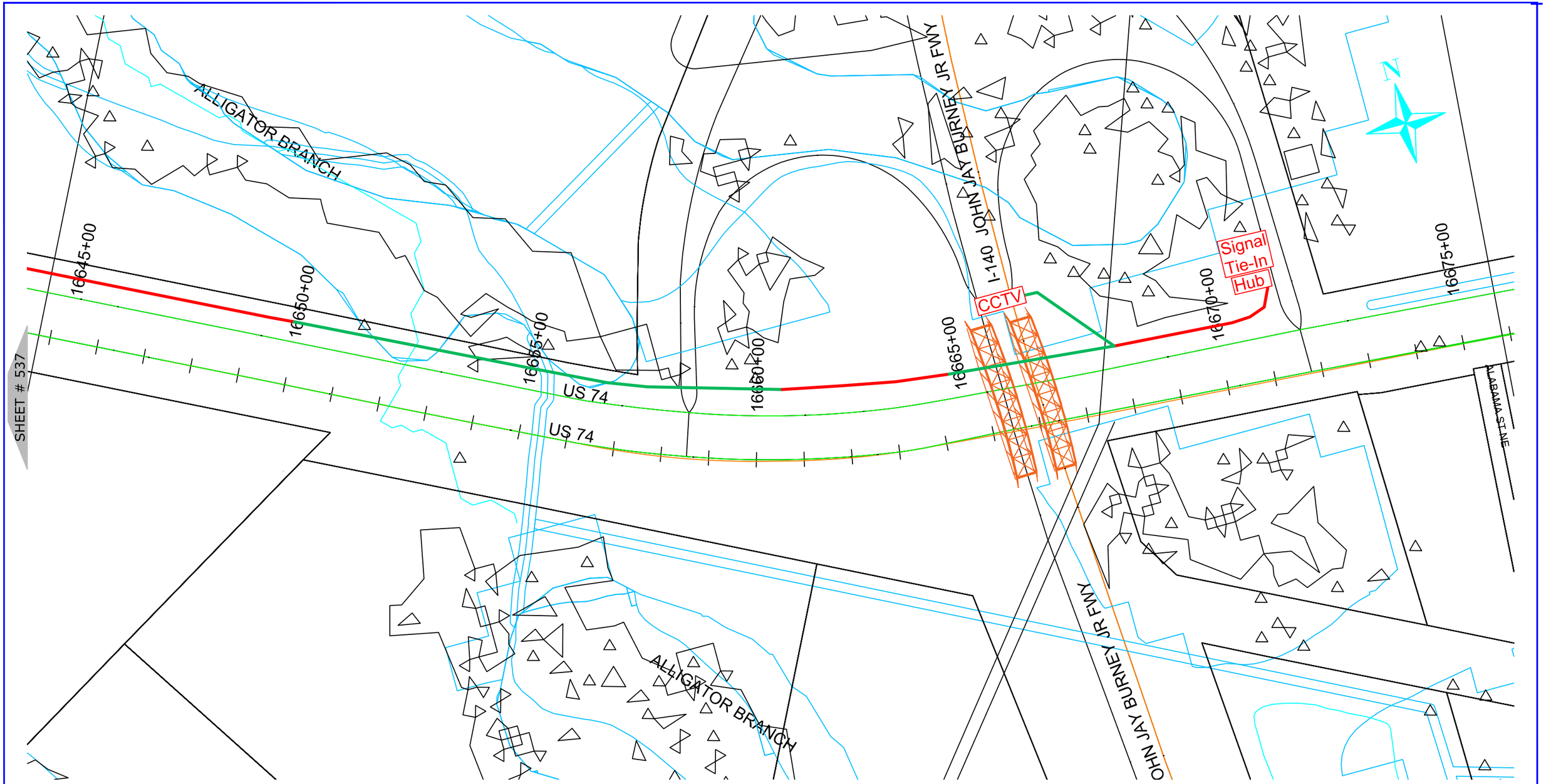
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 537

SHEET: 537

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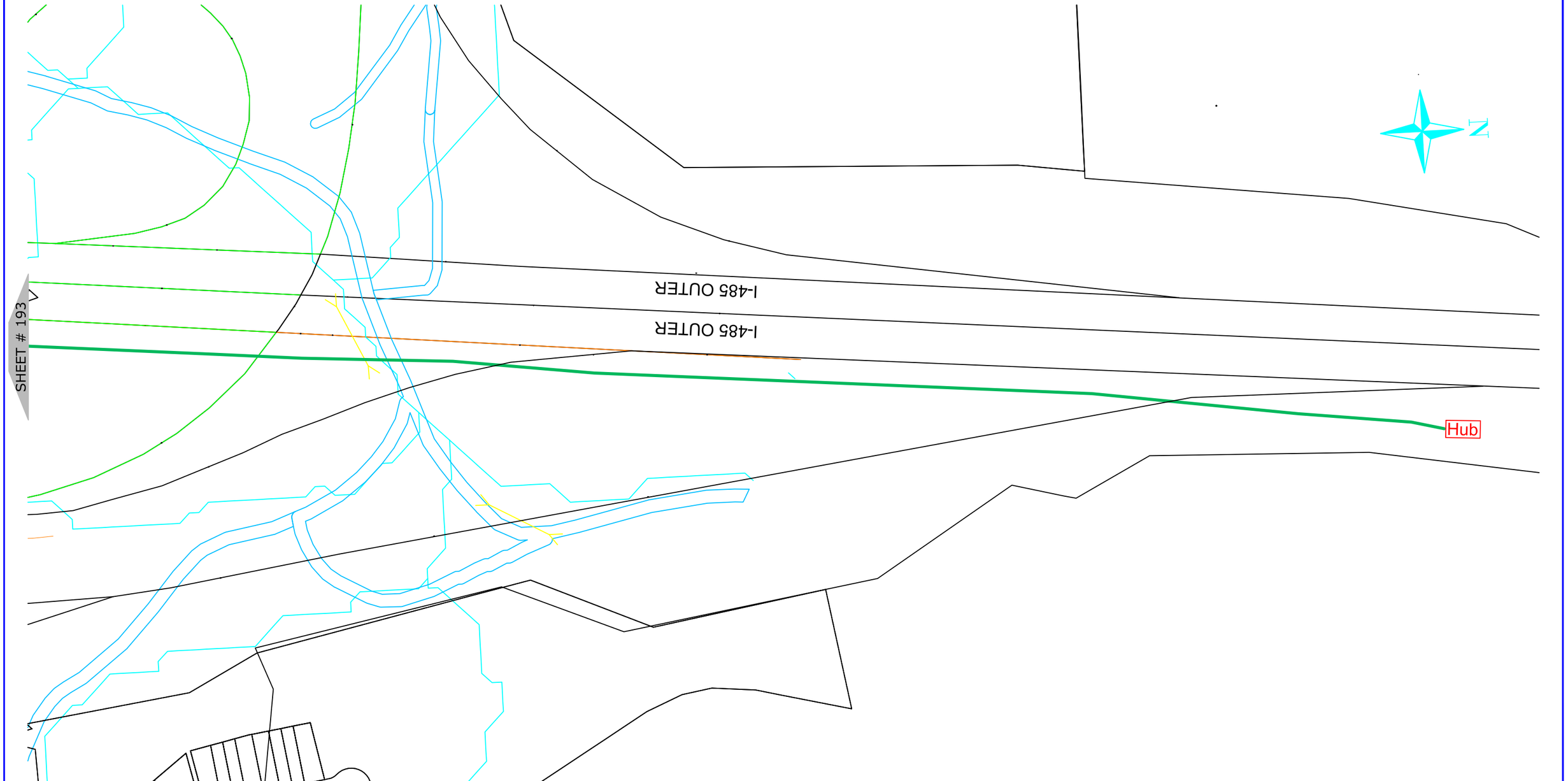
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DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 538

SHEET: 538

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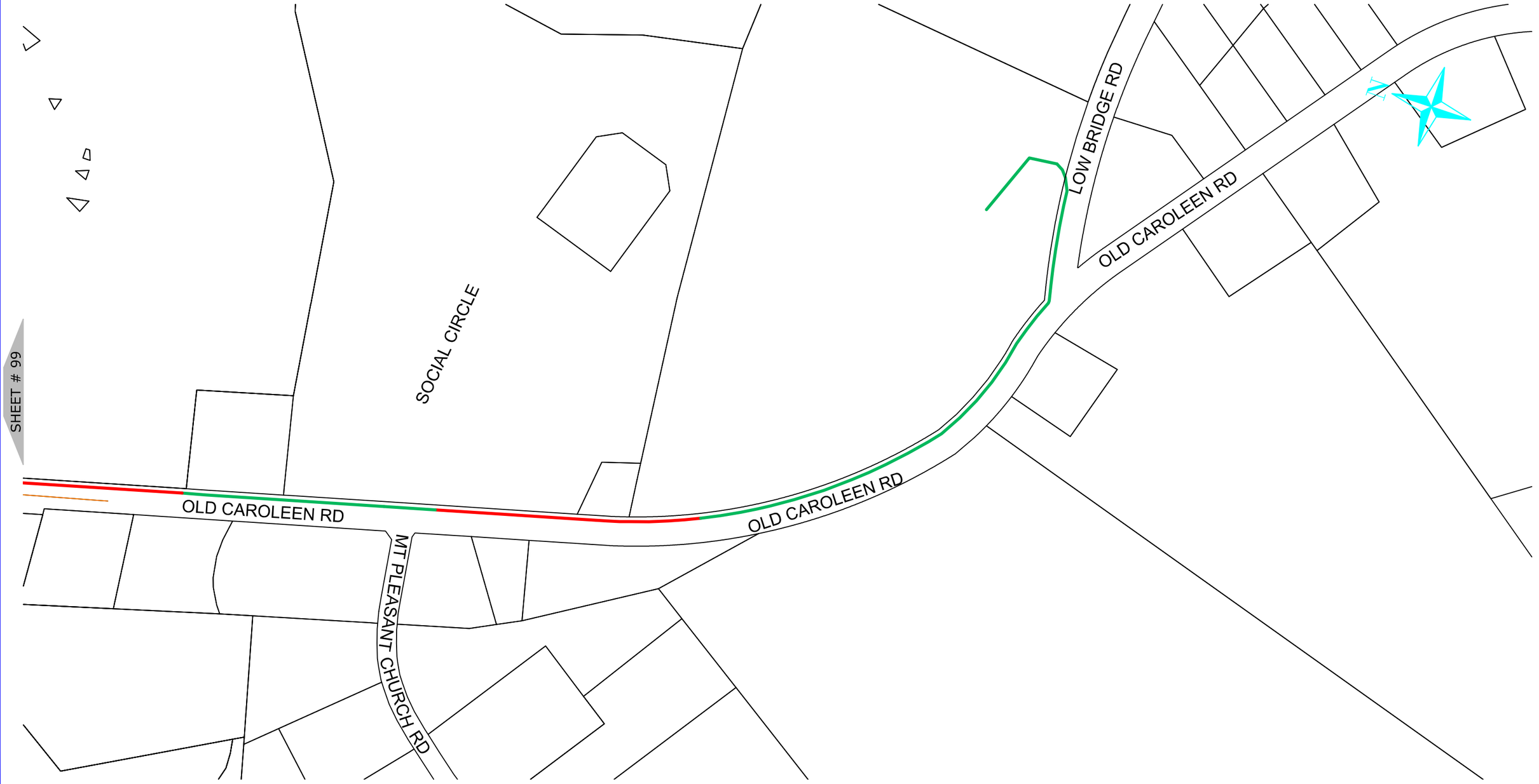
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DRAWN BY: RAMTECH	
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PROJECT NAME: US 74

SHEET NAME: 539

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DATE:	12-05-2021
SCALE:	1:200
DESIGNED BY: RAMTECH	
DRAWN BY: RAMTECH	
CHECKED BY:	---
APPROVED BY:	---

PROJECT NAME:
US 74

SHEET NAME:
540

SHEET:
540