STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

October 28, 2022

U.S. Army Corps of Engineers
Wilmington Regulatory Field
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Wilmington, NC 28403

Attn: Ms. Liz Hair
NCDOT Coordinator

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SUBJECT: **Application for a Section 10 Permit, Section 404 Individual Permit, and Section 401 Water Quality Certification** for Interstate 95 Widening and Pavement Rehabilitation from I-74 (Exit 13) to South of US 301 (Exit 22) and I-95 / SR 1536 (Carthage Rd) Interchange Improvements in Lumberton, STIP Nos. I-6064 and I-5879; WBS Elements 49067.1.1 and 53079.1.1.

Dear Madams:

The North Carolina Department of Transportation (NCDOT) proposes to elevate vertical grade and widen existing I-95 to an eight-lane median divided facility on existing location from I-74 (Exit 13) to south of US 301/Fayetteville Road (Exit 22) in Robeson County, North Carolina (STIP I-6064). The project is approximately 7.95 miles in length. Additionally, NCDOT proposes to make interchange and roadway improvements at SR 1536 (Carthage Road) (I-5879) totaling approximately 0.4 miles in length. These projects have been combined and let concurrently as a single design-build project.

The purpose of this letter is to request approval for a Section 404 Individual Permit, Section 10 Permit, and a Section 401 Water Quality Certification. In addition to this cover letter, the application package includes the following: ENG Form 4345, a State Stormwater Management Plan (SMP), Wetland and Surface Water Impact Permit Drawings, Utility Impact Drawings, Division of Mitigation Services (DMS) mitigation acceptance letter, minutes from the 30% Hydraulic Design Review Meeting and the Permit Drawings Review Meeting, and Roadway Design Plans.

Purpose and Need

The purposes of improving this portion of I-95 are to help relieve congestion, improve mobility, and enhance the resiliency of this corridor to storm events, such that it can continue to serve as a primary East Coast route through the project design year of 2040. Improvements will be required to accommodate projected future traffic volumes and ensure the highway operates at an acceptable level of traffic service, particularly during the peak hour. Traffic volumes along the I-95 corridor are expected to increase approximately 50 percent by 2040, creating conditions in which operations degrade and average speeds

are below the posted speed limit. The proposed additional through lanes will increase the traffic-carrying capacity of the roadway, improve the flow of traffic, and reduce daily traffic delays resulting from expected traffic volume growth.

Improvements to I-95 will also increase the resiliency of the highway against future rainstorm events. The highway will be elevated in strategic locations and major water conveyance structures will be upgraded to provide greater protection for I-95 during and following storms as the Lumber River drains the primary watersheds. Portions of this stretch of I-95 were closed for several days due to flooding during hurricanes Matthew and Florence, emphasizing the need to improve the interstate to be more resilient against future storm events. Along with reduced mobility, periods of inoperability impede emergency services, interstate commerce, and erodes military preparedness.

The existing bridge at (Bridge No. 148) at Carthage Road was constructed in 1955 and is functionally obsolete, structurally deficient, and under height. Improvements are needed to meet current AASHTO and NCDOT standards and remove direct access road connections to I-95 exit/entrance ramps. The on- and off-ramps will be realigned to meet current standards and SR 1590 (Capuano Street) and SR 1586 (Lackey Street) will be realigned to sever direct connections to the ramps.

Project Description

The NCDOT is proposing to widen an approximate 7.95-mile portion of existing Interstate 95 to an eight-lane median-divided facility on existing location through Robeson County. This design-build project includes widening and pavement rehabilitation beginning just north of I-74 (Exit 13) and ending just south of US 301 (Exit 22), where it ties into NCDOT STIP Project I-5987. The project includes modernizing interchanges and elevating vulnerable sections of the interstate to enhance resiliency against the future rainstorm events.

Project Schedule

The STIP for this design-build project combines the proposed activities from separate projects. Work in each of these projects will start construction and be ongoing concurrently due to the overall project schedule commitments. The approximate limits, description, length, and construction letting are summarized in Table 1. Should any changes arise resulting in impact changes for the project a permit modification request will be submitted.

Table 1. I-6064/I-5879 Project Schedule

Project	Approximate Project Limits/Description	Approximate Length (mi)	Construction Letting
I-6064	Widening and pavement rehabilitation from I-95 begin project (near Exit 13) to end project (near Exit 22)	7.95	September 21, 2021
I-5879	I-95 interchange at SR 1536 (Carthage Road) and Carthage Road improvements (Exit 19)	0.40	September 21, 2021

NEPA Status

NCDOT approved the Categorical Exclusion (CE) Type III for STIP I-6064 on December 29, 2020. A CE Type III was approved by NCDOT for I-5879 on November 15, 2018. These documents are available at the NCDOT website: https://xfer.services.ncdot.gov/pdea/EnvironmentalDocs/Documents/.

Independent Utility

The subject project is in compliance with 23 CFR Part 771.111(f) which lists the Federal Highway Administration (FHWA) characteristics of independent utility of a project:

1) The project connects logical termini and is of sufficient length to address environmental matters on a broad scope;
2) The project is usable and a reasonable expenditure, even if no additional transportation improvements are made in the area;
3) The project does not restrict consideration of alternatives for other reasonable foreseeable transportation improvements.

Summary of Impacts

Waters of the U.S.: Based upon Final Permit Drawings for the proposed project, there will be 4.31 acres of permanent wetland impacts, 1,017 linear feet (lf) of permanent stream impacts, 0.3 acres of permanent open water impacts, and 1.81 acres of hand clearing in wetlands due to construction and utility impacts. Table 2 provides a summary of impacts to water resources resulting from the I-6064/I-5879 project.

Table 2. Summary of Water Resources Impacted

Water Resource Type	Total # of Resources Impacted[1]	Permanent (ac)	Temporary (ac)	Hand Clearing (ac)	Permanent (lf)	Temporary (lf)	Required Mitigation[2,3]
Wetland	9	4.31	0.24	1.81	--	--	4.31 ac
Stream	5	0.26	0.15	--	1,017	353	926 lf
Open Water	10	0.30	0.19	--	--	--	--

1. Features may be impacted at more than one permit site
2. Mitigation not required for permanent impacts to streams impacted by bank stabilization
3. No mitigation required for impacts to surface waters verified as open water (ponds or jurisdictional ditches/tributaries)

Summary of Mitigation

NCDOT has avoided and minimized impacts to jurisdictional resources to the greatest extent possible. Project construction will result in unavoidable impacts to 4.31 acres of riparian wetlands, 1,017 linear feet of jurisdictional stream, and 0.3 acres of open water impacts. Of these impacts, 4.31 acres of riparian wetlands and 926 linear feet of perennial stream channel will require mitigation. The Department has acquired the compensatory mitigation for these unavoidable impacts from the North Carolina Department of Environmental Quality (NCDEQ) Division of Mitigation Services (DMS). The DMS Mitigation Acceptance Letter is attached to this application.

Resource Status

The project study area falls entirely within Robeson County which is located in the Lumber River Basin and lies within Hydrologic Unit Code (HUC) 03040203 (Lumber Subbasin). The project crosses Back Swamp, Jacob Branch, Fivemile Branch, Lumber River, and Meadow Branch, as well as several unnamed tributaries to waters of the US, and multiple wetlands. Based on field reviews of the delineation of Waters of the US (WOUS), including wetlands, the USACE issued a Preliminary Jurisdictional Determination (PJD) (Table 3). In addition, on May 26 and 28, 2022, the NCDWR conducted an On-Site Determination for Applicability to the Mitigation Rules (15A NCAC 2H .0506[h]).

Jurisdictional Determinations

Wetland delineations were conducted for I-6064 in Robeson County. Field work for these delineations were completed in December 2019 through June of 2020 and findings are summarized in the respective August 2020 Natural Resources Technical Report (NRTR) and included previously performed I-5879 delineations. The wetlands within the project study areas were delineated based on the 1987 USACE Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0).

Additional wetland delineations were conducted per design changes, resulting in project study area expansion for the project. Field work for this delineation was carried out in June of 2022. A PJD package for features identified during additional field investigations was submitted on September 15, 2022 and impacts to these features are included in this permit application.

Table 3. Applicable Jurisdictional Determination Issued by the USACE

STIP	County	Action ID	Date Issued/Revised	USGS Quads	River Basin
I-6064	Robeson	SAW-2020-00940	June 19, 2020	Northwest Lumberton Southwest Lumberton	Lumber
I-5879	Robeson	SAW-2016-00679	October 23, 2018	Northwest Lumberton	Lumber

The stream channels within the project study area were identified, evaluated, and classified using the NCDWR stream identification form. Water quality information for the streams within the project study area was derived from available sources provided through NCDEQ.

Streams within the project footprint with surface water classifications include Back Swamp, Jacob Branch, Fivemile Branch, Lumber River, and Meadow Branch. Unnamed tributaries to waters listed above were also identified within the project corridor. Surface water classifications for streams can be found in Table 4. Additional information for the jurisdictional streams within the project area is provided in the NRTR.

Table 4. Water Resources within the project footprint

Stream Name	Stream Index Number	Best Usage Class	Description
Back Swamp	14-8-(2.5)	WS-IV; Sw	From Robeson County SR 1157 to Lumber River
Jacob Branch	14-17	C; Sw	From source to Lumber River
Fivemile Branch	14-12-6	C;Sw	From source to Saddletree Swamp
Lumber River	14-(13)	C;Sw	From US 301 Bypass to NC Hwy 904
Meadow Branch	14-12-6-2	C;Sw	From source to Spreading Oak Branch

The Lumber River, upstream (west) of I-95, is designated as High-Quality Waters (HQW); however, within the project footprint and downstream of the project there are no waters classified as HQW. No Water Supplies (WS-I: undeveloped watersheds or WS-II: predominately undeveloped watersheds), nor Outstanding Resource Waters (ORW) occur within 1.0 mile of the project area. Sections of the Lumber River that are upstream (west) of a City of Lumberton raw water supply intake (located approximately 0.5-mile upstream of I-95) are classified as Water Supply Waters (WS-IV). Back Swamp is also classified as WS-IV. The Lumber River is designated as both a North Carolina Natural or Scenic River and a National Wild and Scenic River. No streams within the project footprint are listed on the 2022 303(d) list of impaired waters.

Impacts to Jurisdictional Resources

Tables 5, 6, and 7 summarize the impacts to jurisdictional water resources based on the final project designs. Site numbers for each table correspond with each set of permit drawings attached to this application. The stream, wetland, and open water labels correspond to the NRTR as noted in each table. Utility impacts summarized in Table 5 consist entirely of permanent fill and hand clearing to accommodate the relocation of overhead powerlines. Permanent fill associated with these relocations consists of placing new poles and guy wire anchors. All hand-cleared material will be removed from the proposed utility easements and timber mats will be utilized, as appropriate, during construction activities to avoid permanent impacts to jurisdictional resources.

Table 5. I-6064/I-5879 Wetland Impacts

Permit Drawing Site Number	NRTR Label	Type	Structure Size/Type	Permanent Impacts (ac)[1]	Temporary Impacts (ac)	Hand Clearing	Mitigation Required[2] (USACE)
1	WAJ	Riparian	Ditch	0.002	--	--	1:1
2	WK	Riparian	Pipe	0.043	--	--	2:1
6	WAG	Riparian	Ditch Cleanout	0.345	--	--	2:1
7	WAF	Riparian	Ditch Cleanout	0.058	--	--	2:1
8	WAE	Riparian	Roadway Fill	0.77	--	--	2:1
			Utility	0.001	--	0.279	No
9	WP	Riparian	Roadway Fill	0.084	--	--	2:1
10	WAE	Riparian	Roadway Fill	0.274	--	--	2:1
			Utility	0.005	--	0.560	2:1
12	WAE[3]	Riparian	Ditch Cleanout	0.159	--	--	2:1
18	WAD	Riparian	Roadway Fill	0.069	--	--	2:1
19	WCC	Riparian	Roadway Fill/Bridge	1.186	0.243	0.255	2:1
			Utility	0.001	--	0.094	2:1
20	WCC	Riparian	Roadway Fill	0.057	--	--	2:1
21	WCC	Riparian	Roadway Fill	0.016	--	0.005	2:1
			Utility	0.000[4]	--	0.070	No
22	WCC	Riparian	Roadway Fill	0.046	--	--	2:1
			Utility	0.000[4]	--	0.012	No
24	WW	Riparian	Culvert	0.855	--	--	2:1
			Utility	--	--	0.037	No
25	WW	Riparian	Roadway Fill	0.338	--	--	2:1
			Utility	0.001	--	0.315	2:1
26	WW	Riparian	Roadway Fill	0.001	--	--	2:1
29	WW	Riparian	Utility	0.000[4]	--	0.182	No
			Total Riparian:	**4.311**	**0.243**	**1.809**	
			Total Non-Riparian:	--	--	--	
			Grand Total:	**4.311**	--	**1.809**	

Notes:
-- = No impacts
1. Permanent Impacts include Permanent Fill, Excavation, and Mechanized Clearing in wetlands.
2. Mitigation required for streams and wetlands permanently impacted.
3. Additional delineation added due to design revisions.
4. Permanent Utility Impacts at this Site include placement of a single power pole and/or guy wire anchor totaling a maximum of 13.4 square feet (or less).

Table 6. I-6064-I-5879 Stream Impacts

Permit Drawing Site Number	NRTR Label	Classification (from NRTR)	Structure Size/Type	Permanent (ac)	Temporary (ac)	Permanent (lf)	Temporary (lf)	Mitigation Required[1] (USACE/DWR)
3	Back Swamp	Perennial	Bank Stabilization	0.003	--	21	--	No/No
4	Jacob Branch[3]	Perennial	2@ 48" pipe	0.006	0.017	30	39	Yes/No 2:1
5	Jacob Branch[3]	Perennial	Ditch Cleanout	--	0.004	--	31	Yes/No 2:1
19	Lumber River	Perennial	Roadway Fill/ Bridge	0.002	0.017	50	112	Yes/No 2:1
23	Meadow Branch	Perennial	Culvert	0.101	0.011	337	39	Yes/Yes 1:1
24	Fivemile Branch	Perennial	Culvert	0.143	0.024	509	91	Yes/Yes 1:1
28	Fivemile Branch	Perennial	Culvert	--	0.08	--	41	No/No
			Bank Stabilization	0.004	--	70	--	No/No
Totals	**Total Stream Impact:**			**0.259**	**0.153**	**1,017**	**353**	
	Total Perennial Stream			0.259	0.153	1,017	353	
	Total Intermittent Stream			--	--	--	--	
	Total Perennial Mitigable:			0.252	--	926	--	
	Total Intermittent Mitigable			--	--	--	--	
	Total Mitigable[2]:			**0.252**	**--**	**926**	**--**	

Notes:
1. Mitigation required for features permanently impacted for USACE and DWR. DWR does not require mitigation for any permanent intermittent stream impacts or for permanent perennial stream impacts less than 300 feet.
2. Total Mitigatable includes permanent impacts to perennial streams and intermittent streams as per USACE requirements, the higher mitigation amount.
3. Additional delineation added due to design revisions.

Table 7. I-6064/I-5879 Open Water Impacts

Permit Drawing Site Number[1]	NRTR Label[2]	Classification (from NRTR)	Structure Size/Type	Permanent (ac)	Temporary (ac)	Permanent (lf)	Temporary (lf)	Mitigation Required[1]
8	TJ	Tributary	Roadway Fill	0.000	--	--	--	No
9	TL	Tributary	Roadway Fill	0.021	--	--	--	No
10	TL	Tributary	Roadway Fill	0.005	--	--	--	No
11	PR	Pond	Roadway Fill	--	0.003	--	--	No
13	PQ	Pond	Roadway Fill	0.054	0.049	--	--	No
13	TAG	Tributary	Roadway Fill	0.068	--	--	--	No
14	TAF	Tributary	Roadway Fill	0.051	0.014	--	--	No
15	TAE	Tributary	Roadway Fill	0.051	0.006	--	--	No
16	TAD	Tributary	Roadway Fill	0.007	0.001	--	--	No

Table 7. Continued

17	TAC	Tributary	Roadway Fill/ Ditch Cleanout	0.04	0.039	--	--	No
27	TZ	Tributary	Ditch Cleanout	--	0.075	--	--	No
Total Open Water[2]:				**0.297**	**0.187**	**--**	**--**	**No**

Notes:
1. No mitigation required for impacts to surface waters verified as open water (ponds or jurisdictional ditches/tributaries).
2. Total Open Water includes impacts only to surface waters verified as open water (ponds or jurisdictional ditches)

Federally Protected Species

The United States Fish and Wildlife Service (USFWS) lists the following federally protected species within the I-6064/I-5879 study area, under the Endangered Species Act (ESA) (Table 8). For each species, a discussion of the presence or absence of habitat is included below along with the Biological Conclusion rendered based on survey results in the study area.

Table 8. Federally Protected Species in the I-6064/I-5879 Study Area[1]

Common Name	Scientific Name	Habitat Present	Federal Status	Biological Conclusion
Vertebrate:				
American alligator	*Alligator mississippiensis*	Yes	T(S/A)	N/A
Red-cockaded woodpecker	*Picoides borealis*	Yes	E	No Effect
Wood stork	*Mycteria americana*	Yes	T	MA-NLAA
Bald eagle	*Haliaeetus leucocephalus*	Yes	BGPA	No Effect
Vascular Plant:				
Michaux's sumac	*Rhus michauxii*	Yes	E	No Effect

1. IPaC data checked on September 27, 2022
E – Endangered
T – Threatened
MA-LAA – May Affect Likely to Adversely Affect
N/A – Not applicable
T(S/A) – Threatened due to similarity of appearance
BGPA – Bald and Golden Eagle Protection Act

American Alligator
USFWS optimal survey window: year-round (only warm days in winter)

Biological Conclusion: Not Required

Species listed as threatened due to similarity of appearance do not require Section 7 consultation with the USFWS. Suitable habitat for the American alligator is present in the form of wetlands, canals, and streams. A review of NCNHP records, updated October 10, 2022, indicates no known occurrences within 1.0 mile of the study area.

Red-Cockaded Woodpecker
USFWS optimal survey window: year-round; November-early March (optimal)

Biological Conclusion: No Effect

Foraging habitat for the Red-cockaded woodpecker (RCW) is present in the study area in the form of mixed pine/hardwood stands, greater than 30 years old. Nesting habitat, in the form of pine dominated mixed pine/hardwood stands 60 years in age or older is absent within the project study

area. Surveys of pine dominated stands, in the study area and a half-mile field survey, were conducted on March 3, 2020, but no RCW cavity trees or individuals were observed. A review of NCNHP records, updated on October 10, 2022, indicates no known occurrences within 1.0 mile of the study area.

Wood Stork
USFWS optimal survey window: mid-June – mid-July

Biological Conclusion: May Affect, Not Likely to Adversely Affect

Suitable habitat for the wood stork is present in the study area in the form of wetlands, swamps, and canals; however, no individuals were observed during a site visit conducted on June 23, 2020. As a result of informal consultation between Division 6 and USFWS, a concurrence letter was dated and received on December 17, 2020 for a biological conclusion of May Affect, Not Likely to Adversely Affect for wood stork. A review of NCNHP records, updated on October 10, 2022, indicates no known occurrences within 1.0 mile of the study area.

Michaux's Sumac
USFWS optimal survey window: May – October

Biological Conclusion: No Effect

Habitat in the form of maintained/disturbed areas associated with roadsides, utility rights- of-way, artificial clearings, open forested edges, and properties experiencing natural succession is located throughout the study area. A survey was conducted on October 21 and 25, 2022 and Michaux's sumac was not observed. A review of NHP records updated July 5, 2022, indicates no known occurrences within 1.0 mile of the project study area.

Northern Long-eared Bat

The US Fish and Wildlife Service has revised the previous programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the northern long-eared bat (NLEB) (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. Although this programmatic covers Divisions 1-8, NLEBs are currently only known in 22 counties, but may potentially occur in 8 additional counties within Divisions 1-8. NCDOT, FHWA, and USACE have agreed to two conservation measures which will avoid/minimize mortality of NLEBs. These conservation measures only apply to the 30 current known/potential counties shown on Figure 2 of the PBO at this time. The programmatic determination for NLEB for the NCDOT program is **May Affect, Likely to Adversely Affect**. The PBO will ensure compliance with Section 7 of the Endangered Species Act for ten years (effective through December 31, 2030) for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Robeson County, where I-6064/I-5879 is located.

Cultural Resources

Historic Architectural Resources

The potential effect of the proposed project on historic architectural resources was evaluated in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended. During initial investigations, the NCDOT Cultural Resources Group determined that the project could affect Jennings Mill (RB0693). The proposed design for I-6064 will add sidewalks and likely move a utility pole in the

northwest corner of this historic property. The property will be affected by acquisition of right-of-way, a temporary construction easement, and a permanent utility easement with the potential to impact two trees located in the northwest corner of the property. NCDOT, HPO, and FHWA agreed that there will be no adverse effect to this historic property with commitments for tree protection during construction, and FHWA will use the HPO's concurrence on this effects finding to reach a *de minimis* finding under Section 4(f) of USDOT regulations.
Note: Similar effects were previously determined for the I-5879 project. This previous consultation resulted in a finding of no adverse effect and a de minimis *conclusion from FHWA under Section 4(f).*

Tanglewood Historic District (RB0737) is likely eligible for inclusion on the National Register of Historic Places under Criterion C for Architecture and under Criterion A for Community Planning and Development. At the time of the I-6064 CE, the Traffic Noise Report identified a "likely" noise barrier within the NCDOT existing right of way adjacent to the western boundary of the Tanglewood Historic District near the I-95 service road (Capuano Street). Design plans at the time indicated no trees would be removed for the potential construction of a noise barrier and no visual intrusions were anticipated to the historic district. As a result, there would be no effect to the Tanglewood Historic District under these conditions resulting from a noise wall if it is constructed. Additionally, design plans would raise N Roberts Avenue, which will in turn elevate Rowland Avenue. The house located at 301 N 36th Street is within the boundary for the Tanglewood Historic District and a temporary construction easement is proposed along the parcel line of the property. Construction would not impact the fire hydrant located adjacent to the property and driveway access to the house will be maintained during project construction. NCDOT, HPO, and FHWA agreed there is no adverse effect to the Tanglewood Historic District as a result of these construction activities and FHWA will use HPO's concurrence on this effects finding to reach a de minimis finding under Section 4(f) of USDOT regulations.

Current design plans resulting from the I-6064/I-5879 design-build project would construct the potential noise barrier between I-95 and the service road instead of between the service road and the Tanglewood Historic District. Additionally, the noise barrier would be constructed as a combination retaining wall and sound barrier to minimize the project footprint and keep the wall farther from the historic district boundary. Current design plans are unchanged in proximity to the house located at 301 N 36th Street.

Archaeological Resources

The potential effect of the proposed project on archaeological resources was evaluated in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended, administered under the 2007 Programmatic Agreement for Minor Transportation Projects (Revised 2015) between the FHWA, NCDOT, the Advisory Council on Historic Preservation (ACHP), and SHPO. The NCDOT Cultural Resources Group determined that no National Register listed archaeological sites are located within the I-6064 project study area and no National Register eligible sites would be affected by the project.

FEMA Compliance

The project has been coordinated with appropriate state and local officials and the Federal Emergency Management Agency (FEMA) to assure compliance with FEMA, state, and local floodway regulations.

Mitigation Options

NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize jurisdictional impacts, and to provide full compensatory mitigation of all remaining, unavoidable jurisdictional impacts. Avoidance measures were implemented to the extent possible during the planning and design phases, and minimization measures were incorporated into the project design.

Avoidance and Minimization

All jurisdictional features were delineated, field-verified, and surveyed within the study area. Proposed widening of I-95 towards the median in areas where possible has aided in reducing the project footprint and overall impact to jurisdictional resources. The designs were developed in more detail and adjusted to avoid and minimize impacts to jurisdictional areas. Project designs were reviewed during development stages by an interagency review team. Input from parties concerned have helped develop appropriate and practicable steps to avoid and minimize impacts to sensitive areas.

NCDOT employs many strategies to avoid and minimize impacts to jurisdictional areas in all of its designs. Many of these strategies have been incorporated into BMP documents that have been reviewed and approved by the resource agencies that will be followed throughout construction. All wetland areas not affected by the project will be protected from unnecessary encroachment. General, and some site-specific, avoidance and minimization measures are as follows:

- NCDOT's Best Management Practices (BMPs) for Construction and Maintenance Activities shall be incorporated to the maximum extent practicable;
- Impacts to wetlands, streams, and open waters were avoided and/or minimized by adjusting proposed alignments and slopes;
  - Extensive use of retaining walls was incorporated in place of earthen slopes in multiple locations.
  - North Roberts Avenue Ramp D was changed from an angular exit to a parallel exit to reduce the overall footprint of the ramp minimizing impacts to the Lumber River.
  - A "T" turnaround was used in lieu of a cul-de-sac at the end of Hackett Street to minimize impacts to wetlands immediately adjacent to the Lumber River.
- 3:1 fill slopes have been used to minimize impacts in wetlands;
  - Fill slopes in wetlands utilized toe protection at the bottom of fill slope to stabilize area to minimize erosion
- Stormwater design velocities entering jurisdictional wetlands have been mitigated to be non-erosive (less than 2 fps);
  - Outfalls into wetlands were reestablished to their original elevation utilizing flat longitudinal slopes to minimize the extents into wetlands
- Stormwater was designed to avoid direct discharge into jurisdictional features to the maximum extent practicable;
  - Where needed, outfall cleanouts were stopped outside of the wetlands when possible, and rip rap dissipater pads are provided to diffuse flow into the wetlands
- Rip rap stabilization on banks of jurisdictional streams will be implemented to prevent erosion;
- Minimizing "in stream" activities;
  - Top-down construction is proposed for construction and demolition of the Lumber River bridge, reducing the need for temporary construction impacts, and eliminating the need for a temporary causeway and trestle that would impede recreational paddlers and boaters.
  - Sheet pile walls are incorporated at the Lumber River crossing to avoid roadway impacts to the "oxbow" of the river northeast of the bridge. The wall is designed for full scour, eliminating the need for rip rap and allowing for buffer plantings to enhance the river's Wild and Scenic viewshed.
  - Utility relocations have been designed to minimize impacts to jurisdictional features. New underground utilities required to cross jurisdictional features will be bored under to avoid impacts.
- Open shoulder sections were maximized to promote sheet flow from the roadway;
- Utilized "*Culvert Avoidance and Minimization Design Guidance*" for proposed box culverts, as much as practicable.

Compensation

The NCDOT has avoided and minimized impacts to jurisdictional resources to the greatest extent possible as described above. For linear public transportation projects, mitigation shall be required for impacts equal to or exceeding 150 linear feet per stream or one acre of wetlands. Since this project is a linear transportation project and jurisdictional impacts exceed 150 linear feet of stream and one acre of wetland, mitigation is required.

Compensatory mitigation requirements for I-6064/I-5879 jurisdictional features are summarized below in Table 9. This project proposes to permanently impact a total of 1,017 linear feet of perennial warm water streams (926 linear feet of which will be subject to USACE mitigation and 846 linear feet of which is subject to DWR mitigation) and 0.3 acres of jurisdictional open waters (none of which will be subject to mitigation). The project will also permanently impact a total 4.31 acres of wetlands, all of which are riparian wetlands. The unavoidable impacts to Waters of the U.S. will be offset by compensatory mitigation provided by the North Carolina Department of Environmental Quality (NCDEQ) Division of Mitigation Services (DMS). An acceptance letter from NCDEQ DMS is attached. Mitigation ratios for impacted jurisdictional features were previously noted in Tables 5-7. There will be no mitigation proposed for permanent impacts to streams impacted by bank stabilization.

Table 9. I-6064/I-5879 Proposed Compensatory Mitigation Summary

Streams and Wetlands	River Basin	HUC	Stream (lf)			Wetlands (ac)		
			Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Lumber	03040203	--	--	926	4.311	--	--
USACE[1]/DWR[2]			926/846			4.311		
Grand Total:			**926**			**4.311**		

Notes

1 Mitigation calculations for USACE includes permanent impacts to Perennial streams and Intermittent Streams.

2 Mitigation calculations for DWR includes permanent impacts to Perennial streams with an impact total of 300 or more linear feet.

3 Grand Total reports the higher mitigation amount required for the I-6064/I-5879 design-build project.

Indirect and Cumulative Effects

The Indirect and Cumulative Effects (ICE) analysis found the proposed I-6064 project is not expected to result in notable indirect land use effects. While some criteria that were analyzed ranked high in the level of concern relative to ICE potential, these factors were tempered by slow/declining growth projections for the area, a weak market for development, project improvements that will not notably change accessibility or travel patterns in the area, and local planning efforts that seek to preserve and restore vulnerable areas of the Future Land Use Study Area (FLUSA). These factors would notably limit the potential for indirect effects on land use as a result of the project.

The ICE analysis also found the I-6064 project will not notably contribute to cumulative impacts to environmental resources in the FLUSA. Direct natural environmental impacts resulting from the project will be addressed by avoidance, minimization, or mitigation consistent with programmatic agreements with the natural resource agencies during the Merger and Permitting processes. All developments will be required to follow local, state, and federal guidelines and permitting regulations.

Wild and Scenic Rivers

The project will cross the Lumber River which is federally designated as a Wild and Scenic River (Public

Law 90-542, as amended), and is also part of the North Carolina Natural and Scenic River System. Initial coordination began during the project planning phase between NCDOT, National Park Service (NPS), and North Carolina Division of Parks and Recreation (NCDPR) regarding the proposed replacement of the bridges carrying I-95 over the Lumber River. Documentation of this coordination is included in the I-6064 CE document. To ensure compliance with Section 7(a) of the federal Wild and Scenic Rivers Act and North Carolina Natural and Scenic Rivers Act, additional coordination between NCDOT, NPS, and NCDPR has been ongoing as hydraulic and structural design continued through the development of Roadway Design Plans.

Appendix C of Section 7 of the Wild and Scenic Rivers Act outlines the procedure for evaluating projects for their Direct and Adverse Effects. The NCDOT believes that the proposed project will not have any adverse effects at the I-95 bridge site and therefore this section of the Lumber River's Recreational designation under the Wild and Scenic Rivers Act and the North Carolina Natural and Scenic Rivers Act. NCDOT submitted an Appendix C Section 7 determination and documentation to NPS and NCDPR on October 3, 2022, and is currently awaiting concurrence on a no adverse effect determination.

Regulatory Approvals

Section 10: Application is hereby made for a USACE Section 10 Permit as required for the above-described activities specific to the Lumber River.

Section 404: Application is hereby made for a USACE Individual 404 Permit as required for the above-described activities

Section 401: We are requesting a Section 401 Water Quality Certification from NCDWR and providing this application to NCDEQ for their approval.

A copy of this permit application and its distribution list will be posted on the NCDOT website at: https://xfer.services.ncdot.gov/pdea/PermApps/. If you have any questions, please contact Deanna Riffey at driffey@ncdot.gov or (919) 707-6151.

Sincerely,

Michael Turchy, ECAP Group Leader
Environmental Analysis Unit

ec: NCDOT Permit Application Standard Distribution List

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved - OMB No. 0710-0003 Expires: 01-08-2018

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required)
First - Mack Middle - C Last - Rivenbark	First - Middle - Last -
Company - North Carolina Department of Transportation	Company -
E-mail Address - crivenbark@ncdot.gov	E-mail Address -
6. APPLICANT'S ADDRESS:	**9. AGENT'S ADDRESS:**
Address- 1598 Mail Service Center	Address-
City - Raleigh State - NC Zip - 27699 Country - USA	City - State - Zip - Country -
7. APPLICANT'S PHONE NOs. w/AREA CODE	**10. AGENTS PHONE NOs. w/AREA CODE**
a. Residence b. Business 919-707-6152 c. Fax	a. Residence b. Business c. Fax

STATEMENT OF AUTHORIZATION

11. I hereby authorize, _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

_____ _____

SIGNATURE OF APPLICANT DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)
I-6064ABC/I-5879 Design-Build

13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
Back Swamp, Jacob Branch, Lumber River, Meadow Branch, Fivemil	Address Robeson County
15. LOCATION OF PROJECT	City - Lumberton State- NC Zip-
Latitude: ◦N 34.622744° Longitude: ◦W -79.052668°	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)

State Tax Parcel ID Municipality

Section - Township - Range -

17. DIRECTIONS TO THE SITE

Please see attached Permit Drawings.

18. Nature of Activity (Description of project, include all features)

The North Carolina Department of Transportation (NCDOT) proposes to elevate vertical grade and widen existing I-95 to an eight-lane median divided facility on existing location from I-74 (Exit 13) to south of US 301/Fayetteville Road (Exit 22) in Robeson County, North Carolina (STIP I-6064). The project is approximately 7.95 miles in length. Additionally, NCDOT proposes to make interchange and roadway improvements at SR 1536 (Carthage Road) (I-5879) totaling approximately 0.4 miles in length. These projects have been combined and let concurrently as a single design-build project.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The purposes of improving this portion of I-95 are to help relieve congestion, improve mobility, and enhance the resiliency of this corridor to storm events, such that it can continue to serve as a primary East Coast route through the project design year of 2040. Improvements will be required to accommodate projected future traffic volumes and ensure the highway operates at an acceptable level of traffic service, particularly during the peak hour. Improvements to I-95 will also increase the resiliency of the highway against future rainstorm events. The highway will be elevated in strategic locations and major water conveyance structures will be upgraded to provide greater protection for I-95 during and following storms as the Lumber River drains the primary watersheds.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Roadway fill, pipe/culvert and bridge construction.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
See attached Permit Drawings		

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres 4.311 acres of Wetland and 0.297 acres of Open Water

or

Linear Feet 1,017 linear feet of streams

23. Description of Avoidance, Minimization, and Compensation (see instructions)

Please see attached cover letter.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address-

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
See Application					

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT	DATE	SIGNATURE OF AGENT	DATE
Michael [illegible]	28/10/2022		

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

FLATIRON UNITED INFRASTRUCTURE GROUP ICE of CAROLINAS, PLLC

Meeting Minutes

Project:	TIP I-6064A,B,C / I-5879: I-95 Widening and Pavement Rehabilitation from I-74 (Exit 13) to South of US 301 (Exit 22) and I-95 / SR 1536 (Carthage Rd) Interchange Improvements
Subject:	Non-Merger 30% Hydraulic Design Review Meeting Minutes
Date:	Wednesday, May 11, 2022
Location:	DOT CAA Technical Services Conference Room \ GoTo Meeting

Attendees:

Dan Duffield, NCDOT	Leon Hussey, NCDOT	Jason Mroz, Flatiron-United JV
Tim McFadden, NCDOT	Mark Staley, NCDOT	Frank Colon, Flatiron-United JV
Paul Atkinson, NCDOT	Deanna Riffey, NCDOT	Kristofer Edelberg, Flatiron-United JV
Colin Mellor, NCDOT	Joe Bailey, KCI	Peter Graf, ICE of Carolinas
Chris Rivenbark, NCDOT	Jay Twisdale, TGS	Jonathan Scarce, ICE of Carolinas
Wesley Cartner, NCDOT	Seth Wilcher, FHWA	Bill Stephens, ICE of Carolinas
Christy Huff, NCDOT	Sara Hair, USACOE	Brad Boggs, ICE of Carolinas
James Rerko, NCDOT	Hannah Sprinkle, NCDENR	Kevin Alford, Wetherill Engineering
Jason Salisbury, NCDOT	Travis Wilson, NCWRC	Mark Mickley, EPR USA
Derrick Weaver, NCDOT	Randy Henegar, TGS	
Mike Parker, NCDOT	Jenny Fleming, VHB	

Notes Legend

- Original Meeting Agenda Item
- *Specific Items/Comments discussed or added at the meeting*
- *Action Item*

Minutes

The following is a summary of the project discussions:

Introductions were made by Peter Graf (ICE), for all JV Team members present and on the GoTo Meeting. Peter discussed the overall project limits, scope split with WEI, project goals, roadway typical and resiliency.

Jonathan Scarce (ICE) then preceded to discuss the overview of hydraulic aspects of project. These included the following:

- FEMA Floodplain
    - Noted the status of MOAs (4) and CLOMRs (1) for the project
- Environmental Sensitivity Map
    - Lumber River Basin
    - Major Rivers - Back Swamp, Lumber River, Jacobs Swamp, Meadow Branch and Fivemile Branch
    - Noted proximity of Wetlands and discussed WS Classes
    - Lumber River Critical Area due to City of Lumberton Water Intake upstream of I-95
- Stormwater Treatment

        - Minimize Direct Discharges to MEP, Ditches (Grassed Swales), RR Pad (w Non-erosive velocities) & Dissipator Basins
    - Duckbill Valves
        - Discussed Existing Flap Gates, Performance, Existing Pipe Burials & Cleanouts
        - Presented an Exhibit to explain why ditching in wetlands had become necessary at some outfalls – due mainly to trying to reestablish the original outfall bed elevations at outfalls that had become silted up over time
    - Green Sheet Commitments
        - NCFMP Coord, NPS/DOP at Lumber River, & WS-IV/HQW

Peter then introduced the following individuals and explained which sections of the plans they were responsible presenting for. They were as follows:

- Section 1A & B – (STA 69+00-295+00) – Brad Boggs, PE (ICE)
- Section 1C – (STA 295+00-400+00) – Bill Stephens, PE (ICE)
- Section 2 – (STA 400+00-489+00) – Kevin Alford, PE (WEI)

The sheet-by-sheet review of specific drainage design aspects of the Project then began with Brad Boggs (ICE) presenting his section first.

Brad started by explaining that throughout the project we planned to maintain existing drainage patterns to jurisdictional streams and wetlands to avoid and minimize impacts.

Sheet 4:

1) -L-69+50 LT - Utilizing the same outlet location of the existing system. We have a minimal impact due to the Rip Rap pad.

Sheet 5&6:

1) -L-95+50 LT - Impacting a small amount of stream and wetlands with the pipe outlet and Rip Rap.
2) -L-102+00 RT - Impacting a small amount of wetlands by outletting the pipe at the existing pipe outlet with a Rip Rap pad. The Toe protection along the toe of fill will also impact a small portion of the wetland.
3) -SR06-10+75 RT - Impacting a small portion of Back Swamp with bank stabilization at the ditch tie in.

Sheet 7:

1) -L-129+00 RT - Maintaining existing drainage patterns to wetland, we currently anticipate no impacts to wetland.

Sheet 8/20A (Inset 1):

1) -L-135+00 RT - This outfall flows into Jacobs Swamp. We plan to develop and cleanout the existing outlet from the highway to Jacobs Swamp. Near the outfall terminus at Jacobs Swamp we plan to replace the existing pipe flowing into Jacobs Swamp thru a spoil dike. This will cause a small impact at the pipe outlet in Jacobs Swamp. This area was outside of the original study area. Mark Mickley (EPRUSA) has looked at this area and verified

that there are no wetlands in the proposed ditch cleanout. Mark will provide delineations of Jacobs Swamp boundary for impact determinations in the permit drawings.

Sheet 9&10&20A (Inset 2):

1) -L-163+00 RT – Cleaning out the existing ditch to Jacobs Swamp. We anticipate a small impact from our rip rap pad at Jacobs Swamp. This area was outside of the original study area. Mark has looked at this area and verified that there are no wetlands in the proposed ditch cleanout. Mark will provide delineations of Jacobs Swamp boundary for impact determinations in the permit drawings. We will evaluate stopping the cleanout approx. 50' before Jacobs Swamp to avoid an impact to Jacobs Swamp.

Sheet 11:

1) No JS

Sheet 12:

1) -L-196+00 LT - We do not anticipate an impact to the wetland at this location.

Sheet 13:

1) -L-212+00 LT – Cleanout of the existing ditch into the wetland to achieve positive drainage. There is trash in the existing ditch that we anticipate cleaning out.
2) Here and various other locations throughout the project – the NRTR official wetland naming conventions were confirmed vs the wetland location on the plans.

Sheet 14:

1) No JS

Sheet 15:

1) -L-231+00 LT - Wetland impacts to get positive drainage at this location. We are matching the existing pipe outlet invert.
2) It was mentioned that the crosslines are currently being designed, and inverts may go up or down. In areas where it appears that we must enter the wetlands for positive drainage, additional survey has been requested to tie down elevations appropriately. As such, limits of outfalls into the wetlands may increase or decrease from those presented herein.

Sheet 16:

1) -L-245+00 LT - We are replacing the existing driveway pipe and do not anticipate environmental impacts at the pond.
2) -L-253+50 LT - Wetland impacts to get positive drainage.

Sheet 17:

1) -L-267+50 LT - Toe Protection impacting the wetland and the Rip Rap pads at the pipe outlets impacting the wetlands.

Sheet 18:

1) -L-270+00 LT - Toe Protection and Rip Rap pads at pipe outlet - impacting the wetlands.
2) -L-285+00 LT – 296+00 LT - Toe Protection and Rip Rap pads at pipe outlet - impacting the wetlands.
3) -L-286+00 RT - We anticipate a total take of the wetland at this location. This is a storm water pond for the adjacent property. We are filling over the existing JS non-Mitigable (tributary waters) at this area as well. The tributary water begins at the outlet of the existing storm drainage networks.

At this time, Brad handed off to Bill Stephens (ICE) to present his section. It was questioned why the design was split at this location and Peter explained that it was due to designer/manpower needs.

Sheet 19:

1) -L-297+75 LT – Cleaning out existing ditch but anticipate being able to stop short of the wetlands.
2) -L-302+00 LT – Toe protection impacting the wetlands.
3) -L-302+50 LT - Wetland impacts to get positive drainage.

Sheet 20/20A (Inset 3):

1) -L-315+00 LT – Poor drainage around the CSX Railroad crossing, created the need to develop a new outfall west of I-95, parallel to and outside of the Railroad ROW. This outfall ditch outlets into the floodplain of the Lumber River. Anticipate wetland impacts at end of proposed ditch. Mark Mickley will be delineating the wetlands in this area to capture resulting impact.

Sheet 21:

1) -L-327+50 LT – Impact to tributary waters due to toe protection. Also impact due to need for ditch obtaining positive drainage.
2) -L-328+00 LT – Impact to tributary waters due to Rip Rap pad and creating ditch for positive drainage.
3) -L-328+50 LT - Impact to tributary waters due to Rip Rap pad and clean out to obtain positive drainage.
4) -L-331+75 LT – Impact to tributary waters due to Rip Rap pad at end of ditch provided for positive drainage.
5) Peter explained that Hackett Rd had been relocated further west due to the Department's direction to provide 4:1 slopes west of I-95, rather than a wall, through this area. The 4:1 slopes were recommended due to the close proximity of the Lumber River and the desire to keep any potential scouring of the toe of roadway slope, as far away as possible to not impact the fill and compromise the shoulder, etc.

Sheet 22:

1) -L-340+00 LT – Impact to tributary waters due to clean out to obtain positive drainage.
2) -L-344+50 LT - Impact to wetlands due to toe protection. Also impact due to need for ditch obtaining positive drainage.

3) -L-345+50 LT – Impact to wetlands due to toe protection. Also discussed was that the JV was investigating changing the cul-de-sac to a T intersection and or sliding the location further south to around -L-342+00 LT – to minimize wetland impacts.

Sheet 23:

1) -L-347+50 LT thru -L- 364+50 LT/RT– Wetland impact created by roadway fill from wider I-95 roadway footprint.
2) -L-350+00 LT - Due to the proximity of the Lumber River, Rip Rap reenforced 2:1 slopes are used to help minimize impact in the floodplain and (newly noted) to also provide a buffer from the toe of slope to a large meander bend upstream of the highway. As a result, this also helps minimize wetland impacts.
3) The existing Lumber River bridge is being replaced with a longer bridge. The end bent slopes are 2:1 with rip rap and will create wetland impact. The new bridge minimizes the number of bents in the channel and better aligns the new bents with the floodplain flow. Bridge Deck runoff will not discharge thru open scuppers into the Lumber River but will be directed off the bridge ends and into the wetlands with means to provide nonerosive velocities (rip rap pad, rip rap ditch, dissipator basin, etc.) Flanking the bridge ends are sheet pile walls that are being proposed to minimize the roadway footprint due to the proximity of the channel banks from the Lumber River and the incoming Fivemile Branch. As a result, the walls also help minimize wetland impact. There will be additional wetland impact on the stream side of the walls due to a rip rap countermeasure that is proposed to help minimize the potential for scour at the base of the walls. Peter explained that both the existing bridge removal as well as the proposed bridge construction are anticipated to be performed by Top-Down methods, thus also helping minimize both temporary and permanent impact to wetlands around the bridge.
4) Peter explained the ongoing coordination with NPS & NCDOT has been occurring due to the designation of the Lumber River as a Wild and Scenic River. Colin Mellor with NCDOT is taking the lead in the consultation process with the agencies and the Design-Build Team has provided our design and construction details in support of the process. An on-site field review was held in March with NCDOT, the DB Team and NPS representatives to review the proposed design. The proposed bridge will be higher, longer and with less interior bents than existing. During construction, the DB Team will provide signage and buoys in the river to provide a safe passage for paddlers through the work area and will provide a portage path for times when it is unsafe to paddle under the bridge. All construction for the proposed bridge will be performed using top-down construction techniques with construction equipment located on top of the existing bridge – no temporary access causeways or trestle will be required during construction. The proposed bridge beams, barrier rail and bent caps will be stained a brown color to blend into the surrounding viewshed. NCDOT is preparing the final submittal documentation for review by NPS.
5) -L- 355+00 – Lumber River Bridge – Travis Wilson (NC Wildlife Resources Commission) stated that often during final design additional rip rap ends up being shown under the bridge in the areas now shown as excavation. This is a major wildlife crossing and there is a need to not have rip rap in the floodplain under the bridge such as not to impede wildlife passage. Peter explained that there are rip rap slopes out there today, that rip rap will be removed, and new rip rap fill slopes put in place. He also stated the areas of cross hatching- in the floodplain - was nothing more than excavation and there is no current intent to rip rap those areas outside the new toe of slopes.

Sheet 24:

1) -L-361+00 LT – Wetland impact due to rip rap toe protection. Dan Duffield questioned the 90-degree bends shown in the toe protection and Peter explained that this will be shown better once final grading around the wall is worked out; likely resulting in fewer wetland impacts than currently shown. He also stated that the JV could possibly investigate extending the wall slightly further north, to help minimize wetland impacts as well.
2) -L-362+50 LT – Storm drainage system to outfall into dissipater basin outside the wetlands to obtain non-erosive velocities from pipe outlet, prior to wetlands. It was also noted that a wide rip rap base ditch might also be proposed here in lieu of the basin.
3) -L-362+00 RT – Sheet pile wall designed without scour countermeasure to avoid impacting the Lumber River oxbo area. The wall can also be installed from the roadway side of the wall thereby minimizing JS impacts as well. Peter explained some of the design details of the wall.
4) -L-365+50 RT – Storm drainage system to outfall into dissipater basin outside the wetlands to obtain non-erosive velocities from pipe outlet, prior to wetlands. It was also noted that a wide rip rap base ditch might also be proposed here in lieu of the basin. It was noted this matches the existing conditions, but the current outfall had to be relocated around the end of the proposed sheet pile wall. Paul Atkinson (Hydraulics) questioned if there is a ditch from the energy dissipater to the wetland boundary and Bill Stephens explained it is shown as wide (8’ wide base ditch out of the energy dissipater, but further investigation will done during final design to determine if dissipater is needed.

Sheet 32:

1) -Y4-15+00 LT/RT – As part of this project, although currently outside the existing project limits, the Department has asked the JV to investigate what size replacement culvert would be required to meet design criteria. The existing culvert has been experiencing settlement issues, etc. There is chance that there will be additional impacts at this site, associated with a new proposed culvert, if the JV is later requested to include this culvert replacement as part of this project.

Sheet 25:

1) -L-390+00 LT – The existing JS stream lines in the FS file are not currently shown in the NRTR or WET file. Plan to coordinate with the Department. It is likely that the shown impact will be eliminated. If the JS is found to be correct, will be impact to tributary waters due to clean out for positive drainage.

At this time, Bill handed off to Kevin Alford (WEI) to present his section.

Sheet 26:

1) No JS.

Sheet 27:

1) -L-338+00 RT – The inlet channel of Meadow Branch will be re-aligned to tie to the proposed culvert. The new channel banks will be lined with rip rap for proposed bank stabilization. The culvert has been re-aligned so flow can be maintained in the existing culvert during construction.

2) -L-441+75 LT – The outlet channel of Meadow Branch will be re-aligned to tie back to the existing channel. The new channel banks will be lined with rip rap for proposed bank stabilization. The culvert has been re-aligned so flow can be maintained in the existing culvert during construction.

Sheet 28:

1) -L-443+00 RT – The existing ditch will be filled over by the proposed typical for -SR5-. The proposed typical for -SR5- adds a berm for a future multi-use path behind the proposed curb and gutter. In order to replace the ditch, a proposed ditch will be placed in the wetlands at or above the existing ditch elevation in order to keep from draining the wetland.
2) -L-447+00 RT – The inlet channel of Five Mile Branch will be re-aligned to tie to the proposed culvert. The proposed typical for -SR5- adds a berm for a future multi-use path behind the proposed curb and gutter, which caused the existing channel to be filled in due to the proximity of the existing channel to the existing service road. The channel was relocated away from -SR5- since it was being filled in. This allowed the stream to have a smoother transition to the culvert inlet than the existing channel. The existing channel had an almost 90-degree bend at the inlet of the existing culvert. The channel banks will be lined with rip rap in the bends for bank stabilization. The culvert has been re-aligned so flow can be maintained in the existing culvert during construction.
3) -L-444+00 LT – The outlet channel of Five Mile Branch will be re-aligned to tie back to the existing channel. The channel banks will be lined with rip rap for bank stabilization. The culvert has been re-aligned so flow can be maintained in the existing culvert during construction.
4) -L-448+60 to 454+00 LT – The wetland will be fill over by the proposed typical for -SR4-. The proposed typical for -SR4- adds a berm for a future multi use path behind the proposed curb and gutter. Toe protection will be placed along the fill slope to prevent scour along the proposed toe of slope.
5) -L-448+50 to 450+00 RT – An existing ditch thru the wetland will be replaced with a new ditch to obtain positive drainage; resulting in wetland impact.

Sheet 31:

1) -L-485+35 LT – In order to provide positive drainage flow, the ditch will need to be cleaned out. Dan Duffield questioned if bank stabilization will be required along the ditch cleanout. He said it is better to know if it is needed now, rather than later. The ditch will be looked at to see if stabilization is required.

Sheet 34:

1) -Y5-17+50 LT & RT– The existing culvert under -Y5- will be cleaned out and restored back to the same condition as when it was designed/installed. Temporary impacts will be required due to phasing operations required to maintain flow and temporary impacts required to remove the debris in the culvert.

At the conclusion Jon Scarce noted that the outfall cleanouts presented in the wetland areas would have additional impacts due to required easements – be that from PDE or TDE. He explained that he did not want this to be a surprise at the 4C Meeting.

Other Notes: None.

Meeting Minutes

Project:	TIP I-6064A,B,C / I-5879: I-95 Widening and Pavement Rehabilitation from I-74 (Exit 13) to South of US 301 (Exit 22) and I-95 / SR 1536 (Carthage Rd) Interchange Improvements
Subject:	Non-Merger Permit Drawing Package Review Meeting Minutes
Date:	Meeting - Wednesday, August 17, 2022; Minutes – Wednesday, September 7, 2022
Location:	DOT CCA Technical Services Conference Room \ GoTo Meeting
Attendees:	

Dan Duffield, NCDOT, Design Build Unit, Design Build Engineer
Tim McFadden, NCDOT, Design Build Unit, Design Build Project Engineer
Paul Atkinson, NCDOT, Hydraulics Unit, Engineering Supervisor
Zackary Howard, NCDOT, Transportation Engineering Associate
Chris Rivenbark, NCDOT, ECAP, Eastern Region Team Lead
Christy Huff, NCDOT, Division 6, Division Project Manager
James Rerko, NCDOT, Division 6, Division PEDA, PEDA Engineer
Steve Kendall, NCDOT, Division 6, Division Project Development Engineer
Scott Pridgen, NCDOT, Division 6, Division Project Team Lead
Michael Sanderson, NCDOT, EPU, Environment Policy Specialist
Greg Price, NCDOT, Division 6, Division PEDA, PEDA DEO
Mark Staley, NCDOT, REU, Roadside Environmental Engineer
Deanna Riffey, NCDOT, ECAP, Environmental Senior Specialist
Liz Hair, USACE
Jay Twisdale, TGS
Seth Wilcher, FHWA
Dale Privette, FHWA
Hannah Sprinkle, NCDENR
Travis Wilson, NCWRC
Randy Henegar, TGS
Jenny Fleming, VHB
Jason Mroz, Flatiron-United JV
Kristofer Edelberg, Flatiron-United JV
Peter Graf, ICE of Carolinas
Jonathan Scarce, ICE of Carolinas
Bill Stephens, ICE of Carolinas
Brad Boggs, ICE of Carolinas
Kevin Alford, Wetherill Engineering
Mark Mickley, EPR USA

Minutes

Introductions were made by all present in the room.

Peter Graf explained which sections of the project plans each individual designer would present. They were as follows:

- First Presenter - Brad Boggs – South End up to STA 297+00 (Site 10)
- Second Presenter - Bill Stephens – STA 297+00 (Site 10) up to STA 400+00
- Third Presenter - Kevin Alford – STA 400+00 to North End

Dan Duffield asked if Liz Hair had any comments to add at the commencement of the meeting; she had none.

Peter provided an overall schedule update: Final Roadway Plans to be submitted soon. ROW Plans have been accepted by the Department. Property owner contacts have begun in the field for ROW acquisitions. Peter explained that the Team will distribute the Meeting Minutes of this meeting asap, and asked for help getting comments as soon as possible, and within the two-week anticipated timeframe. The Team's next milestone will be the actual Permit Package submittal to NCDOT; anticipated to be the end of August or early September.

The sheet-by-sheet review of Permit Drawing Review Package then began with Brad Boggs presenting his section first.

Brad started by asking if there were any comments on the Stormwater Management Plan; there were none.

Sheet 5:

1) Site 1 – No Comments.

Sheet 6:

1) Site 2 – No Comments.
2) Site 3 – No Comments.

Sheet 8A:

1) Site 4 – Mark Mickley explained that Sites 4, 5 and 12 were all areas where additional drainage easements had to be obtained as part of the project design. These were not part of the NRTR original study area, which has the PJD on it. Mark delineated those areas recently, and the Team just received the official final survey of those areas. Mark had sent a WEX file earlier this week to NCDOT and is in the process of coordinating this as an addition to the PJD. He wanted to get this in front of the Agencies prior to the permit package submittal.
2) Site 4 – Dan asked if the 2-48" pipes shown at Jacob Swamp were replacing the existing 18" pipe and used for property owner access. Mark explained that they were, and that they were also traversing thru a large berm along that side of Jacob Swamp.
3) Site 4 – Dan asked how wide the base was on the outfall ditch. Brad said he thought it was 8 feet.
4) Liz asked for clarification on the updated additional delineation areas. She wanted to know if they were going to be submitted as an addendum to the PJD in advance of the permit

application, so they could be reviewed and get questions back to the Team. Mark confirmed that this was the case.

Sheet 10A:

1) Site 5 – No Comments.

Sheet 13:

1) Site 6 – Dan asked if this ditch was an existing ditch. Brad confirmed it was.
2) Site 6 – Mike Sanderson asked if the stated trash in the ditch was debris or actual trash. Peter explained it was both. Mike asked what was going to keep it from getting placed back in the ditch again. Peter explained that was the purpose of the PDE, so it could be maintained in the future.

Sheet 15:

1) Site 6 – No Comments.

Sheet 16:

1) Site 7 – No Comments.

Sheet 17:

1) Site 8 – No Comments.

Sheet 18:

1) Site 8 – No Comments.
2) Site 9 – Chris Rivenbark questioned which part of the wetland impact shown was due to actual impact vs the additional shown to show it was a total take. He explained that typically only the part that is impacted is shown as actual impact. The remaining is not typically shown as impact but accounted for on the impact summary sheet and noted. After much discussion it was decided to show the small wedge that is not actual Fill in Wetlands, as Mechanized Clearing instead. This would fall within the 10 feet from the construction limit. Follow up: After further investigation into the site, it was found that while the slope stake does not impact the entire site, the installation of the 24" RCP would impact the remaining portion of the wetland. For this reason, there will be no changes to the impacts at this site.
3) Site 10 – Brad explained that the additional excavation shown outside two of the crossline outlets was for potential Bore & Jack pits. Paul Atkinson asked for clarification and asked if the pits would be backfilled to their original levels, and if so, would that just be considered temporary excavation. Liz and Hannah Sprinkle agreed it was a temporary excavation if backfilled to the original elevation, reseeded w native species and the wetlands are not impacted permanently.
4) Site 10 – Further discussions revolved around the idea that the entire area now shown as Excavation would need to be cleared for the pits. It was questioned if it should be shown as Mechanized Clearing instead. Chris agreed with Liz and Hannah and said to show as Temporary Excavation and pointed out that the material from the pits should not be temporarily placed in the wetlands.

At this time, Brad handed off to Bill Stephens (ICE) to present his section

Sheet 19:

1) Site 10 – No Comments.

Sheet 20:

1) Site 11 – Dan asked that a note of “Pond” be added to the area.

Sheet 20A:

1) Site 12 – Dan questioned if the straight-line of the wetland line shown along the top of the drawing was the railroad embankment. Peter confirmed that it was. Mark explained this was also one of the areas that the Team plans to include in the upcoming addendum to the PDJ. Peter also noted some stray wetlands symbols below the WLB line and Mark mentioned it was on the list to be cleaned up.

Sheet 21:

1) Site 13 – Dan requested that the “Pond” label be included on this sheet as well.
2) Site 14 – Dan asked if it was appropriate to show all Sites (13,14, 15 and 16) with different site numbers, since ultimately, they drained to the same area (Pond). Chris explained that since each went to a different resource to begin with at its outlet, he felt it was appropriate as shown. James Rerko said that he and Greg Price agreed with that call as well.
3) Site 14-15 – Paul asked if the rip rap was drawn to scale, and Bill explained that it was not. Paul asked that any rip rap along the project be drawn to scale, if shown in jurisdictional resources, to adequately capture impacts.
4) Site 16 – No Comments.

Sheet 22:

1) Site 17 – No Comments.
2) Site 18 – No Comments.

Sheet 23:

1) Site 19 – Peter discussed the Mechanized Clearing around the proposed bent locations, and the idea that it could be reduced due to Top-Down construction. Chris, Liz and Hannah all agreed that there should still be a buffer around the bents but were fine if it was reduced to 5 feet instead of 10 feet.
2) Site 19 – James asked how the existing bents were to be removed in the water. Kristopher Edelberg confirmed they would be sawed off 1 foot below the mudline.
3) Site 19 – Chris requested the TOB line be removed from the Plan View.

Sheet 24:

1) Site 20 – No Comments.

2) Site 21 – Chris asked if the existing 36" HDPE could be removed with Hand Clearing, instead of Mechanized Clearing; Peter and Kristopher agreed that it could be.
3) Site 22 – No Comments.

Sheet 32:

1) Site 22 – No Comments.
2) Peter explained that the existing triple barrel box culvert replacement at Fivemile Branch (discussed previously at the 4B Meeting) was still currently not part of the project. The Division had asked the Team to analyze it, recommendations were provided but the Division is still evaluating the feasibility of its replacement. At this time, the culvert replacement is still not part of this contract, and it will not be included in this permit package.

At this time, Bill handed off to Kevin Alford to present his section.

Sheet 27:

1) Site 23 – Not mentioned during the Meeting, but there is an error in the Impact Drawings just south of the outlet end of the proposed culvert at Meadow Branch. The FS file is showing a JS stream shown from around 439+25 LT to 440+25LT. This stream is not in the NRTR, PJD, WEX or WET. This impact and feature will be removed in subsequent drawings.

Sheet 28:

1) Site 24 – Mark Staley pointed out that at the inlet of the proposed Fivemile Branch culvert, there was a temporary channel shown in the Erosion Control Plans that has not been shown in the permits. Kevin stated that the impacts would be added.
2) Site 24 - Mark Staley also pointed out that in between the two proposed culvert outlets, there was a shared stilling basin shown in the Erosion Control Plans; it was impacting the wetland and not shown in the permit drawings. Jonathan Scarce explained that the Team had caught both areas of concern during their recent 4C Meeting Prep as well. He explained that the Team had discussed the idea of breaking out the stilling basin into two smaller ones and were attempting to try and relocate them outside of the wetlands.
3) Site 25 – No Comments.

Sheet 29:

1) Site 25 – Kevin pointed out that at the top of the sheet near the matchline, he would add a "call-out" for the small sliver of impact.
2) Site 26 - No Comments.

Sheet 31:

1) Site 27 – No Comments.

Sheet 34:

1) Site 28 – No Comments.

Wetland and Surface Water Impact Table:

1) No Comments

At this time, Kevin handed off to Peter to go over a Sample Utility Impact Drawing.

Sample Utility Impact Drawing:

1) Peter explained that the project contained many utilities that were going to need to be relocated; some of which would be going through the wetlands. The Team is currently still working with the utility companies to optimize their designs to avoid and minimize impacts as much as possible. Peter presented a portion of the Roadway Site 10 Utility Impact Drawing showing proposed power poles as an example. He pointed out Hand Clearing and the efforts to place poles outside the wetlands. One pole was still shown in the wetlands, and the Team would try and coordinate to get it moved to an upland area. The Utility Impact Drawings would be part of the next Permit Package submittal. There were No Comments.
2) Mark Mickley stated that utility impacts would use the same Site # as the Roadway impacts wherever possible. Deanna Riffey confirmed that would be preferred.

At the conclusion, Peter asked if anyone had any further questions, comments, or concerns. There were none and the meeting was adjourned.

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MARC RECKTENWALD
Director

NORTH CAROLINA
Environmental Quality

October 26, 2022

Mr. Jamie Lancaster, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: Mitigation Acceptance Letter:

I-6064, I-95 Widening from I-74 / US 74 (Exit 13) to US 301 / Fayetteville Road (Exit 22), Robeson County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream and wetland mitigation for the subject project. Based on the information supplied by you on October 26, 2022, the impacts are located in CU 03040203 of the Lumber River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Lumber 03040203 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	926.000	4.310	0	0	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This mitigation acceptance letter replaces the mitigation acceptance letter issued on December 1, 2020. DMS commits to implementing sufficient compensatory mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

Elizabeth Harmon

for James B. Stanfill
DMS Deputy Director

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: I-6064 Revised

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 3.00; Released August 2021)

General Project Information

WBS Element:	49067.1.2,49067.1.3 & 53079.2.1	**TIP Number:**	I-6064/I-5879	**Project Type:**	Roadway Widening	**Date:**	9/28/2022
NCDOT Contact:	James J. Rerko			**Contractor / Designer:**	ICE of Carolinas, PLLC / William Stephens, PE		
Address:	NCDOT Highway Divison 6 P.O. Box 1150 Fayetteville, NC 28302			**Address:**	4905 Falls of Neuse Road Suite 125 Raleigh, NC 27609		
Phone:	910-364-0693			**Phone:**	984-255-0410		
Email:	jjrerko@ncdot.gov			**Email:**	william.stephens@ice-eng.com		
City/Town:	Lumberton			**County(ies):**	Robeson		
River Basin(s):	Lumber			**CAMA County?**	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	7.945 Mles	**Surrounding Land Use:**	Urban character along project corridor and a rural/residential character for areas outside of corridor				
	Proposed Project			**Existing Site**			
Project Built-Upon Area (ac.)	230.0	ac.		170.3	ac.		
Typical Cross Section Description:	Northbound Lanes - 4 @ 12' Lanes w/ Paved Shoulders & Median Barrier Wall Southbound Lanes - 4 @ 12' Lanes w/ Paved Shoulders & Median Barrier Wall			Northbound Lanes - 2 @ 12' Lanes w/ Paved Shoulders Southbound Lanes - 2 @ 12' Lanes w/ Paved Shoulders			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	107800	Year: 2041	Existing:	71800	Year:	2021

General Project Narrative:
(Description of Minimization of Water Quality Impacts)

The project consists of the widening of I-95 from I-74 (Exit 13) To South of US 301 (Exit 22) from 2 lanes in each direction to 4 lanes in each direction. Several grade separated bridges will be replaced along the project corridor. The proposed stormwater runoff from the roadway widening has been conveyed to roadside ditches and storm drainage systems that drain to existing outfalls. Stormwater management is accomplished with proposed grassed lined ditches that discharge stormwater as far away from the stream and wetlands as practical. Many of the proposed grassed lined ditches along the project would meet grass swale criteria, even though it is not required for this project.

Impact and Minimization Efforts: The project has been designed to minimize wetland and stream impacts along the corridor. Drainage has been designed so that outlets discharging into wetlands have non-erosive velocities to minimize disturbance to the wetlands. Fill slopes have been steepened to 3:1 in areas where wetlands and streams have been impacted by the project. Box culverts in the project area that convey jurisdictional streams have been buried a minimum of 1 foot and circular culverts have been buried 20% of their diameter so that they provide aquatic passage.

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 3.00; Released August 2021)

General Project Information

Waterbody Information

Surface Water Body (1):	Back Swamp		**NCDWR Stream Index No.:**	14-8-(2.5)		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Back Swamp			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

Surface Water Body (2):	Fivemile Branch		**NCDWR Stream Index No.:**	14-12-6		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Fivemile Branch			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

Surface Water Body (3):	Jacob Branch		**NCDWR Stream Index No.:**	14-17		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Jacob Branch			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 3.00; Released August 2021)

WBS Element: 49067.1.2,49067.1.3 & 53079.2.1 **TIP No.:** I-6064/I-5879 **County(ies):** Robeson

Additional Waterbody Information

Surface Water Body (4):	Lumber River		**NCDWR Stream Index No.:**	14-(13)		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	Federal Wild and Scenic Rivers					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Lumber River			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	Yes	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

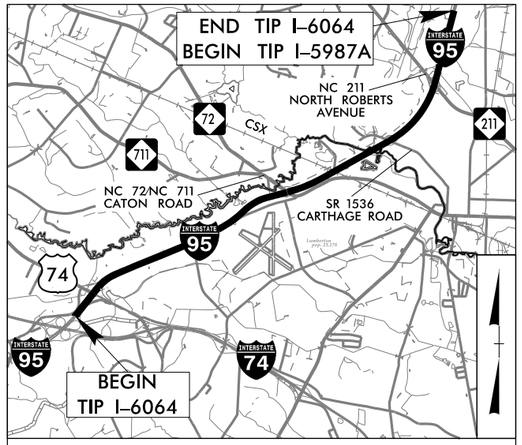
Surface Water Body (5):	Meadow Branch		**NCDWR Stream Index No.:**	14-12-6-2		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Meadow Branch			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

Surface Water Body (6):	Saddletree Swamp		**NCDWR Stream Index No.:**	14-12		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	Swamp Waters (Sw)			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Saddletree Swamp			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)						

09/08/99

TIP PROJECT: I-6064/I-5879

CONTRACT: C204596



VICINITY MAP
(Not to Scale)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6064I-5879	3	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49067.1.2, 49067.1.3, & 53079.2.1		PE
49067.2.5, 49067.2.6, & 53079.2.1		ROW
49067.2.5, & 49067.2.6		UTIL.
49067.3.1, 49067.3.2, & 49067.3.3		CONST.

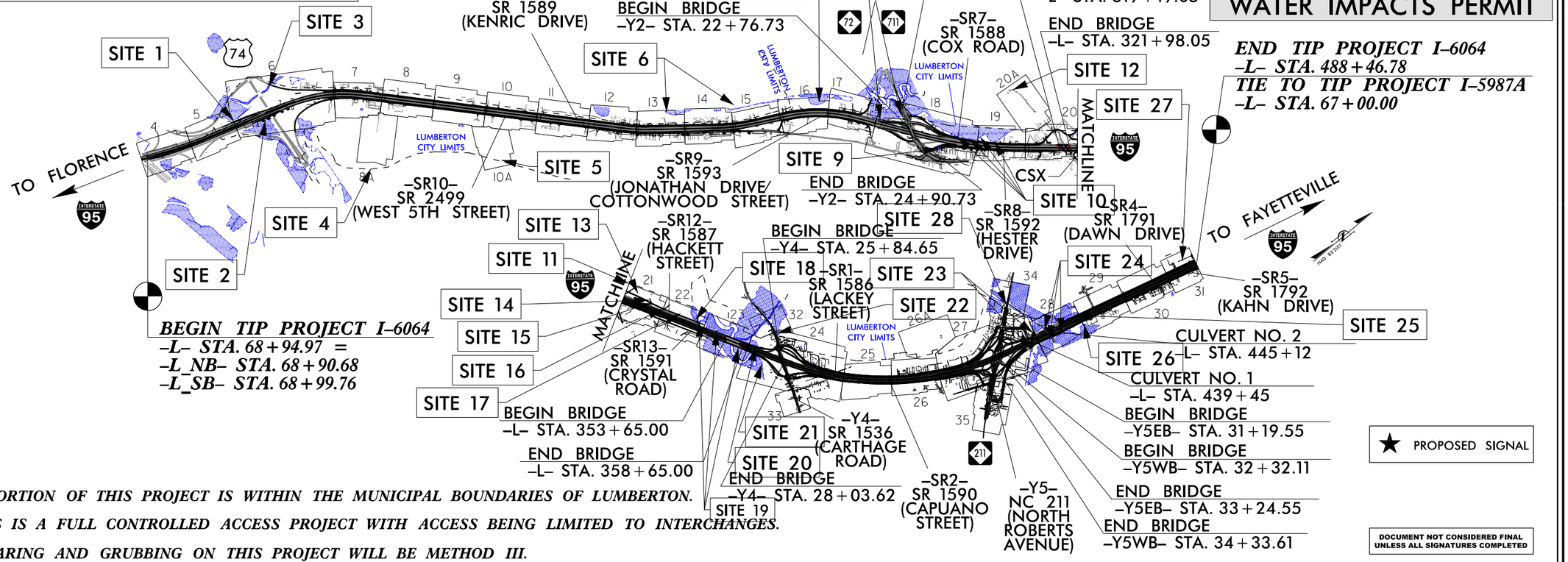
PERMIT DRAWING
SHEET 1 OF 79

LOCATION: *I-95 WIDENING AND PAVEMENT REHABILITATION FROM I-74 (EXIT 13) TO SOUTH OF US 301 (EXIT 22) AND I-95/SR 1536 INTERCHANGE IMPROVEMENTS*

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, CULVERTS, STRUCTURES PAVEMENT MARKINGS, SIGNING, SIGNALS, ITS, NOISE WALLS, AND RETAINING WALLS*



WETLAND AND SURFACE WATER IMPACTS PERMIT



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF LUMBERTON.

THIS IS A FULL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

CLEARING AND GRUBBING ON THIS PROJECT WILL BE METHOD III.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 20 10 0 10 20

DESIGN DATA

ADT 2021 = 71,800
ADT 2041 = 107,800
K = 6.5%
D = 60 %
T = 14% *
V = 75 MPH
* TTST = 11% DUAL = 3%
FUNC CLASS = INTERSTATE STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-6064 = 7.783 MILES
LENGTH STRUCTURE TIP PROJECT I-6064 = 0.162 MILES
TOTAL LENGTH TIP PROJECT I-6064 = 7.945 MILES

Prepared In the Office of:
ICE of CAROLINAS, PLLC
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-802-0333
License #: P-0995

Prepared for:
NCDOT DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 9/21/2021

LETTING DATE: 9/21/2021

BRIAN LUSK, PE
PROJECT ENGINEER

DAN DUFFIELD, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

8/2/2022
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USER: KAlford

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

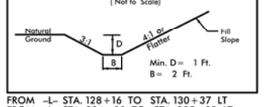
PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	2D-1
RW SHEET NO.	

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

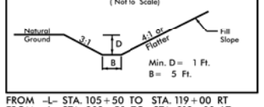
PERMIT DRAWING SHEET 2 OF 79

DETAIL A
SPECIAL LATERAL BASE DITCH
(Not to Scale)



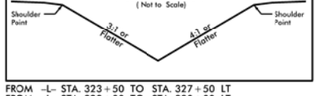
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FROM –L– STA. 234+00 TO STA. 235+89 LT
FROM –L– STA. 236+14 TO STA. 242+88 RT
FROM –L– STA. 274+00 TO STA. 276+00 RT
FROM –L– STA. 282+00 TO STA. 285+00 RT
FROM –SR6– STA. 24+88 TO STA. 26+85 LT
FROM –SR6– STA. 32+66 TO STA. 34+37 LT
FROM –SR6– STA. 34+37 TO STA. 34+97 LT
FROM –SR6– STA. 35+36 TO STA. 41+34 LT
FROM –SR6– STA. 41+34 TO STA. 47+15 LT
FROM –SR6– STA. 47+15 TO STA. 60+72 LT
FROM –SR6– STA. 80+06 TO STA. 84+66 LT
FROM –SR6– STA. 86+87 TO STA. 88+74 LT
FROM –SR6– STA. 106+88 TO STA. 109+14 LT
FROM –SR6– STA. 118+30 TO STA. 130+16 LT
FROM –SR6– STA. 156+00 TO STA. 159+77 LT
FROM –SR6– STA. 161+00 TO STA. 174+50 LT
FROM –SR7– STA. 32+50 TO STA. 34+00 LT
FROM –SR8– STA. 25+85 TO STA. 26+85 RT
FROM –SR8– STA. 33+80 TO STA. 36+00 RT
FROM –SR9– STA. 20+32 TO STA. 23+00 RT
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FROM –SR9– STA. 20+32 TO STA. 23+00 RT
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FROM –SR10– STA. 20+72 TO STA. 24+14 RT
FROM –SR10– STA. 31+55 TO STA. 34+12 RT
FROM –SR10– STA. 35+32 TO STA. 38+40 RT
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FROM –SR12– STA. 10+40 TO STA. 16+00 LT
FROM –SR12– STA. 10+50 TO STA. 11+00 RT
FROM –SR13– STA. 15+88 TO STA. 17+85 RT
FROM –SR2– STA. 29+06 TO STA. 35+65 RT
FROM –Y2RPC– STA. 10+50 TO STA. 20+70 RT
FROM –Y2RPD– STA. 19+25 TO STA. 21+10 LT

DETAIL B
SPECIAL LATERAL BASE DITCH
(Not to Scale)



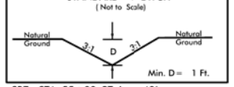
FROM –L– STA. 105+50 TO STA. 119+00 RT
FROM –L– STA. 302+50 TO STA. 312+00 LT
FROM –SR6– STA. 26+85 TO STA. 32+15 LT
FROM –SR6– STA. 60+72 TO STA. 80+06 LT
FROM –SR6– STA. 90+52 TO STA. 106+88 LT
FROM –SR6– STA. 137+15 TO STA. 141+85 LT
FROM –SR6– STA. 143+00 TO STA. 150+49 LT
FROM –SR6– STA. 150+54 TO STA. 155+77 LT
FROM –SR10– STA. 25+12 TO STA. 30+29 RT
FROM –SR10– STA. 38+80 TO STA. 44+19 RT
FROM –SR10– STA. 56+43 TO STA. 76+62 RT
FROM –SR10– STA. 96+33 TO STA. 102+08 RT
FROM –SR10– STA. 114+80 TO STA. 115+97 RT

DETAIL C
MEDIAN 'V' DITCH
(Not to Scale)



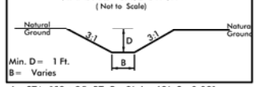
FROM –L– STA. 323+50 TO STA. 327+50 LT
FROM –L– STA. 328+00 TO STA. 330+00 LT
FROM –L– STA. 331+00 TO STA. 336+00 LT
FROM –L– STA. 339+50 TO STA. 346+05 LT
FROM –L– STA. 426+50 TO STA. 427+00 LT

DETAIL D
STANDARD 'V' DITCH
(Not to Scale)



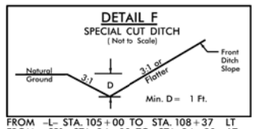
–SR7– STA. 55+00 RT, L= 40'
–SR9– STA. 11+00 RT, L= 30'
–SR9– STA. 11+00 RT, L= 30'
–Y4RPC– STA. 20+90 TO 21+96 RT, L= 106'

DETAIL E
STANDARD BASE DITCH
(Not to Scale)



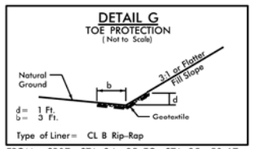
–L– STA. 133+25 RT, B=8', L=62', S=0.031
–L– STA. 133+35 RT, B=8', L=703', S=0.001
–L– STA. 135+16 RT, B=8', L=215', S=0.002
–SR1– STA. 32+50 LT, B=5', L=150', S=0.001
–SR1– STA. 37+50 LT, B=5', L=185', S=0.001
–SR6– STA. 102+58 LT, B=8', L=158', S=0.001
–SR6– STA. 118+30 LT, B=8', L=384', S=0.001
–SR6– STA. 137+15 LT, B=8', L=453', S=0.001
–SR6– STA. 172+00 RT, B=5', L=140', S=0.003
–SR7– STA. 39+75 TO 50+50 LT, B=5', L=1570', S=0.001
–SR7– STA. 50+25 LT, B=2', L=40', S=0.0148
–SR7– STA. 50+50 TO 52+50 RT, B=5', L=140', S=0.002
–SR10– STA. 66+19 RT, B=8', L=1278', S=0.0017
–SR12– STA. 29+00 LT, B=2', L=36', S=0.010
–Y1RPA– STA. 23+50 RT, B=3', L=70', S=0.02

DETAIL F
SPECIAL CUT DITCH
(Not to Scale)



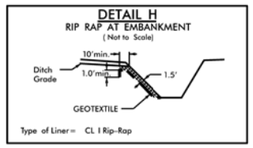
FROM –L– STA. 105+00 TO STA. 108+37 LT
FROM –SR1– STA. 24+00 TO STA. 24+90 LT
FROM –SR1– STA. 42+77 TO STA. 44+45 LT
FROM –SR2– STA. 37+67 TO STA. 39+75 RT
FROM –SR2– STA. 40+05 TO STA. 44+38 RT
FROM –SR2– STA. 44+82 TO STA. 47+00 RT
FROM –SR2– STA. 48+50 TO STA. 49+50 RT
FROM –SR4– STA. 16+58 TO STA. 18+50 LT
FROM –SR4– STA. 23+24 TO STA. 25+50 LT
FROM –SR4– STA. 37+77 TO STA. 40+40 LT
FROM –SR4– STA. 40+40 TO STA. 42+50 LT
FROM –SR4– STA. 47+65 TO STA. 50+75 LT
FROM –SR5– STA. 74+14 TO STA. 79+45 RT
FROM –Y5RPA– STA. 17+11 TO STA. 21+91 RT
FROM –SR8A– STA. 10+62 TO STA. 13+75 RT
FROM –SR10– STA. 140+55 TO STA. 145+77 RT
FROM –SR13– STA. 23+94 TO STA. 27+44 LT

DETAIL G
TOE PROTECTION
(Not to Scale)

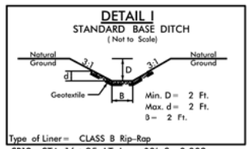


FROM –SR07– STA. 24+35 TO STA. 25+50 LT
FROM –SR07– STA. 26+20 TO STA. 28+38 LT
FROM –SR07– STA. 28+85 TO STA. 29+70 LT
FROM –Y2– STA. 17+65 TO STA. 19+05 RT
FROM –Y2RPB– STA. 11+30 TO STA. 16+85 LT
FROM –Y4– STA. 18+50 TO STA. 20+25 LT
FROM –Y4– STA. 18+50 TO STA. 20+25 LT
FROM –Y4RPB– STA. 13+45 TO STA. 14+53 LT

DETAIL H
RIP RAP AT EMBANKMENT
(Not to Scale)

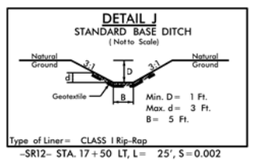


DETAIL I
STANDARD BASE DITCH
(Not to Scale)



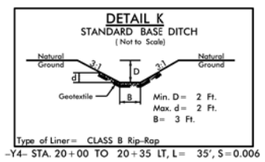
–SR12– STA. 16+85 LT, L= 30', S=0.002

DETAIL J
STANDARD BASE DITCH
(Not to Scale)



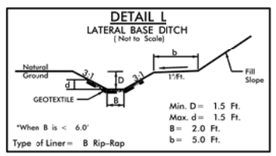
–SR12– STA. 17+50 LT, L= 25', S=0.002

DETAIL K
STANDARD BASE DITCH
(Not to Scale)

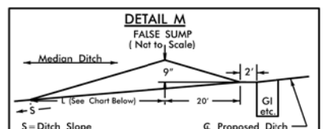


–Y4– STA. 20+00 TO 20+35 LT, L= 35', S=0.006

DETAIL L
LATERAL BASE DITCH
(Not to Scale)



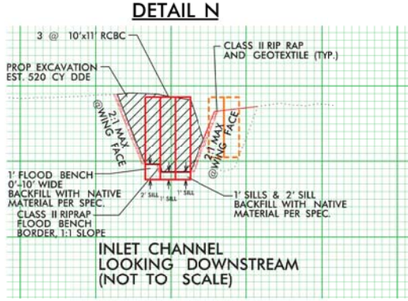
DETAIL M
FALSE SUMP
(Not to Scale)



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

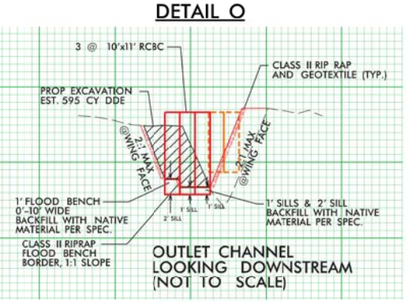
SEE PLANS FOR LOCATIONS

DETAIL N



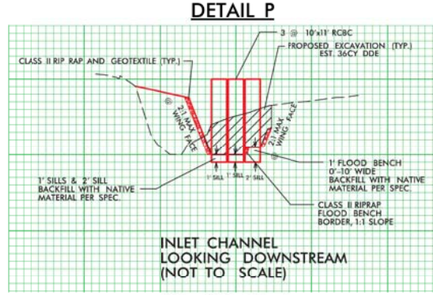
STA. –SR5– 30+00 RT

DETAIL O



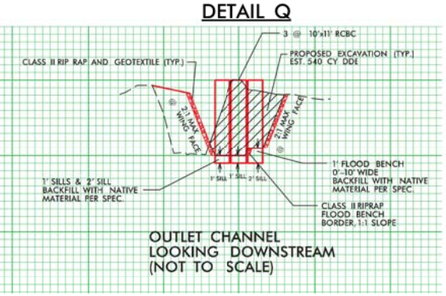
STA. –SR4– 19+48 LT

DETAIL P



STA. –SR5– 37+60 RT

DETAIL Q



STA. –SR4– 23+10 LT

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FLATIRON UNITED INFRASTRUCTURE GROUP

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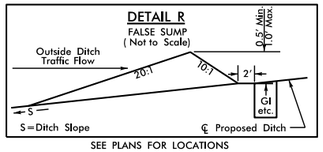
PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	2D-2
RW SHEET NO.	

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

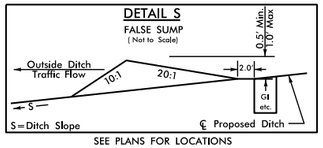
PERMIT DRAWING SHEET 3 OF 79

DETAIL R
FALSE SUMP
(Not to Scale)



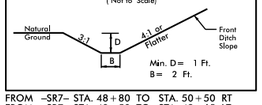
SEE PLANS FOR LOCATIONS

DETAIL S
FALSE SUMP
(Not to Scale)



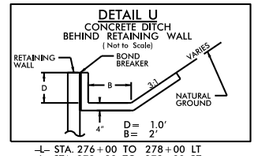
SEE PLANS FOR LOCATIONS

DETAIL T
SPECIAL CUT BASE DITCH
(Not to Scale)



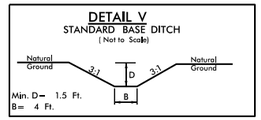
FROM –SR7– STA. 48+80 TO STA. 50+50 RT
FROM –SR7– STA. 48+50 TO STA. 49+65 LT
FROM –SR7– STA. 55+00 TO STA. 59+00 LT
FROM –SR8– STA. 20+28 TO STA. 20+60 RT
FROM –SR8– STA. 22+00 TO STA. 24+00 RT
FROM –SR8– STA. 36+00 TO STA. 38+00 RT
FROM –SR2– STA. 21+45 TO STA. 27+88 RT
FROM –SR2– STA. 35+65 TO STA. 37+62 RT
FROM –Y4RPC– STA. 16+06 TO STA. 16+50 RT
FROM –Y4RPB– STA. 16+00 TO STA. 17+00 LT

DETAIL U
CONCRETE DITCH
BEHIND RETAINING WALL
(Not to Scale)



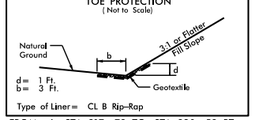
–L– STA. 276+00 TO 278+00 LT
–L– STA. 278+30 TO 279+00 RT
–L– STA. 279+00 TO 279+91 LT
–L– STA. 280+20 TO 281+46 RT
–L– STA. 315+70 TO 316+80 LT
–L– STA. 367+45 TO 368+70 LT
–L– STA. 369+39 TO 369+96 RT
–L– STA. 369+40 TO 369+96 LT
–L– STA. 370+73 TO 372+02 RT
–SR7– STA. 47+00 TO 48+78 RT

DETAIL V
STANDARD BASE DITCH
(Not to Scale)



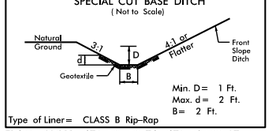
–L– STA. 317+60 RT, L=40', S=0.015
–SR7– STA. 31+40 LT, L=95', S=0.003

DETAIL W
TOE PROTECTION
(Not to Scale)



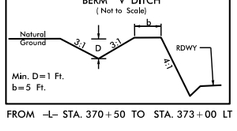
FROM –L– STA. 317+73 TO STA. 320+53 RT
FROM –SR04– STA. 27+65 TO STA. 29+70 LT
FROM –SR04– STA. 29+85 TO STA. 32+95 LT
FROM –SR05– STA. 32+65 TO STA. 36+21 RT

DETAIL X
SPECIAL CUT BASE DITCH
(Not to Scale)



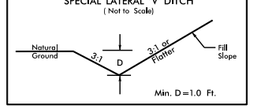
FROM –Y4RPB– STA. 14+50 TO STA. 16+00 LT

Y
BERM 'V' DITCH
(Not to Scale)



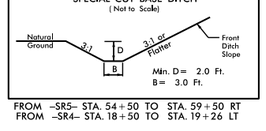
FROM –L– STA. 370+50 TO STA. 373+00 LT

DETAIL AA
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



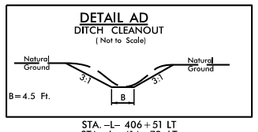
FROM –SR1– STA. 15+50 TO STA. 17+58 LT
FROM –SR1– STA. 18+35 TO STA. 19+40 LT
FROM –SR1– STA. 45+20 TO STA. 46+75 LT
FROM –Y5RPC– STA. 18+50 TO STA. 21+50 RT
FROM –SR5– STA. 30+16 TO STA. 32+65 RT

DETAIL AB
SPECIAL CUT BASE DITCH
(Not to Scale)



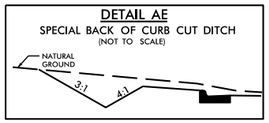
FROM –SR5– STA. 54+50 TO STA. 59+50 RT
FROM –SR4– STA. 18+50 TO STA. 19+26 LT

DETAIL AD
DITCH CLEANOUT
(Not to Scale)



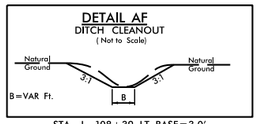
STA. –L– 406+51 LT
STA. –L– 414+72 LT

DETAIL AE
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



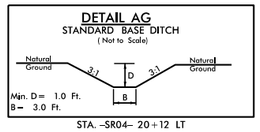
FROM –Y5– STA. 20+00 TO STA. 24+00 RT

DETAIL AF
DITCH CLEANOUT
(Not to Scale)



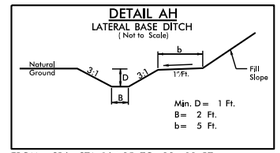
STA. –L– 108+39 LT, BASE=3.0'
STA. –L– 112+18 LT, BASE=5.0'
STA. –L– 253+80 LT, BASE=10.0'
STA. –SR01– 49+28 LT, BASE=4.5'
STA. –SR01– 57+29 LT, BASE=4.5'
STA. –SR04– 64+28 LT, BASE=10.0'
STA. –SR05– 41+10 RT, BASE=4.0'
STA. –SR09– 23+10 RT, BASE=10.0'
STA. –SR12– 28+40 LT, BASE=5.0'

DETAIL AG
STANDARD BASE DITCH
(Not to Scale)



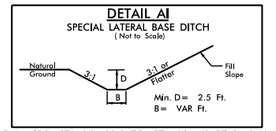
STA. –SR04– 20+12 LT

DETAIL AH
LATERAL BASE DITCH
(Not to Scale)



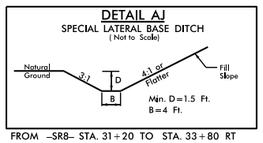
FROM –SR6– STA. 16+85 TO 23+00 RT
FROM –SR12– STA. 18+75 TO STA. 19+25 LT
FROM –SR12– STA. 20+25 TO STA. 21+00 LT
FROM –SR12– STA. 24+86 TO STA. 28+35 LT
FROM –SR12– STA. 31+87 TO STA. 32+90 LT
FROM –Y2RPD– STA. 19+35 TO STA. 21+50 RT
FROM –Y4– STA. 21+30 TO STA. 22+38 RT
FROM –Y4RPB– STA. 17+00 TO STA. 19+53 LT

DETAIL AI
SPECIAL LATERAL BASE DITCH
(Not to Scale)



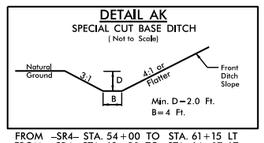
FROM –SR5– STA. 26+83.5 TO STA. 29+42 RT, B=3.0'
FROM –SR5– STA. 41+11 TO STA. 46+00 RT, B=4.0'
FROM –SR5– STA. 49+70 TO STA. 51+10 RT, B=4.0'

DETAIL AJ
SPECIAL LATERAL BASE DITCH
(Not to Scale)



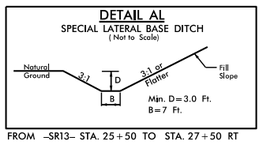
FROM –SR8– STA. 31+20 TO STA. 33+80 RT

DETAIL AK
SPECIAL CUT BASE DITCH
(Not to Scale)



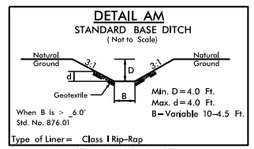
FROM –SR4– STA. 54+00 TO STA. 61+15 LT
FROM –SR4– STA. 62+30 TO STA. 64+17 LT
FROM –SR13– STA. 17+85 TO STA. 20+88 RT

DETAIL AL
SPECIAL LATERAL BASE DITCH
(Not to Scale)



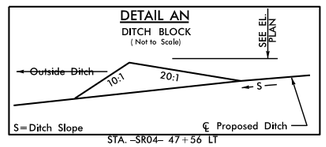
FROM –SR13– STA. 25+50 TO STA. 27+50 RT

DETAIL AM
STANDARD BASE DITCH
(Not to Scale)



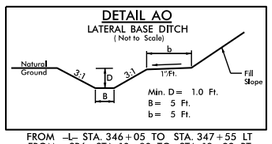
STA. –L– 406+35 RT

DETAIL AN
DITCH BLOCK
(Not to Scale)



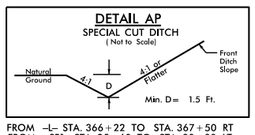
STA. –SR04– 47+56 LT

DETAIL AO
LATERAL BASE DITCH
(Not to Scale)



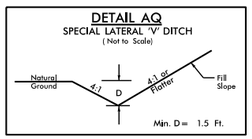
FROM –L– STA. 346+05 TO STA. 347+55 LT
FROM –SR6– STA. 10+80 TO STA. 13+22 RT
FROM –SR6– STA. 13+22 TO STA. 16+85 RT

DETAIL AP
SPECIAL CUT DITCH
(Not to Scale)



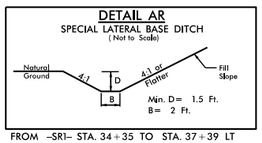
FROM –L– STA. 366+22 TO STA. 367+50 RT
FROM –SR1– STA. 25+60 TO STA. 30+00 LT
FROM –Y4RPC– STA. 16+06 TO STA. 22+00 LT
FROM –Y4RPA– STA. 20+68 TO STA. 22+17 RT
FROM –L– STA. 370+50 TO STA. 371+50 LT

DETAIL AQ
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



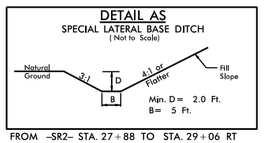
FROM –L– STA. 372+53 TO STA. 375+00 RT
FROM –SR1– STA. 30+00 TO STA. 32+70 LT
FROM –SR1– STA. 32+75 TO STA. 34+35 LT
FROM –SR1– STA. 37+44 TO STA. 42+00 LT

DETAIL AR
SPECIAL LATERAL BASE DITCH
(Not to Scale)



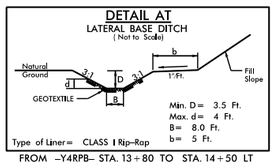
FROM –SR1– STA. 34+35 TO STA. 37+39 LT

DETAIL AS
SPECIAL LATERAL BASE DITCH
(Not to Scale)



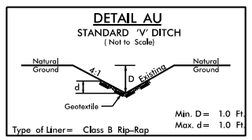
FROM –SR2– STA. 27+88 TO STA. 29+06 RT

DETAIL AT
LATERAL BASE DITCH
(Not to Scale)



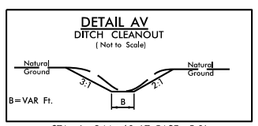
FROM –Y4RPB– STA. 13+80 TO STA. 14+50 LT

DETAIL AU
STANDARD 'V' DITCH
(Not to Scale)



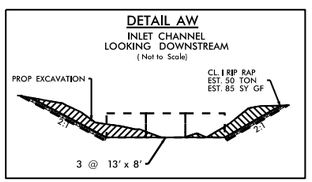
FROM –SR1– STA. 11+30 TO STA. 12+40 RT
(No Proposed Ditch Grade)

DETAIL AV
DITCH CLEANOUT
(Not to Scale)



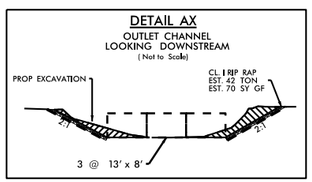
STA. –L– 244+60 LT, BASE=5.0'
STA. –SR09– 10+46 RT, BASE=6.0'

DETAIL AW
INLET CHANNEL
LOOKING DOWNSTREAM
(Not to Scale)



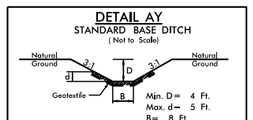
–Y5– STA. 18+50 LT

DETAIL AX
OUTLET CHANNEL
LOOKING DOWNSTREAM
(Not to Scale)



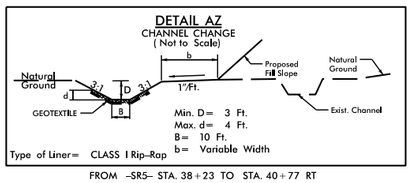
–Y5– STA. 18+06 RT

DETAIL AY
STANDARD BASE DITCH
(Not to Scale)



–SR10– 117+05 RT, B=8', L= 18', S=0.059
–Y4RPC– STA. 15+80 RT, L= 54', S=0.002

DETAIL AZ
CHANNEL CHANGE
(Not to Scale)



FROM –SR5– STA. 38+23 TO STA. 40+77 RT

8/2/2022
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USER:kellford

8/17/99

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License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 4 OF 79

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'

GRAPHIC SCALE

NAD 83

SITE 1

MATCHLINE –L– STA. 81+00.00 (SEE SHEET 4)

MATCHLINE –L– STA. 94+00.00 (SEE SHEET 6)

SR 1207 HILLY BRANCH RD 37' BST

I-95 SB/US 301 SB 37' BST

I-95 NB/US 301 NB 37' BST

EXIST. R/W

48" WW w/ISBW

GRASS

VEGETATION

ALFRED THOMPSON

MARYLYN BRITT

NCDOT

BL-37

I60G4-36

CL I RIP RAP EST. 19 TONS EST. 30 SY GF

Q10 = 34.6 cfs
V10 = 1.3 fps

STANDARD 3' BASE DITCH SEE DETAIL E

SHALLOW 2GI IS NEEDED TO AVOID LONG DITCH INTO WETLANDS

SP. DET. 2GI-A

FIELD VISIT SHOWS A BOX DEPTH OF 3' (TOP APPEARS TO BE CORRECT & INV IS INCORRECT)

PROP. DOUBLE FACE CABLE GUIDERAIL

FIELD VERIFY LOCATION

ASSUMED

FLOWABLE FILL

REMOVE

PLUG

RETAIN

FOR -L_SB- PROFILE SEE SHT.37
FOR -L_NB- PROFILE SEE SHT.37
FOR -YIRPA- PROFILE SEE SHT.54

$DATE$ $TIME$
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Matt.Harvey

8/17/99

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License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 5 OF 79

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'

GRAPHIC SCALE

NAD 83

SITE 1

MATCHLINE –L– STA. 81+00.00 (SEE SHEET 4)

MATCHLINE –L– STA. 94+00.00 (SEE SHEET 6)

SR 1207 HILLY BRANCH RD 31' BST

I-95 SB/US 301 SB 37' BST

I-95 NB/US 301 NB 37' BST

EXIST. R/W

85+00

90+00

25+00

Q10 = 34.6 cfs
V10 = 1.3 fps

CL RIP RAP
EST. 13 TONS
EST. 30 SY OF

STANDARD 3' BASE DITCH SEE DETAIL E

SHALLOW 2GI IS NEEDED TO AVOID LONG DITCH INTO WETLANDS

SF DET 2GI-A

FIELD VISIT SHOWS A BOX DEPTH OF 3' (TOP APPEARS TO BE CORRECT & INV IS INCORRECT)

PROP. DOUBLE FACE CABLE GUIDERAIL

FLOWABLE FILL

ASSUMED

18" RCP PER PLANS NOT FOUND IN THE FIELD

FIELD VERIFY LOCATION

REMOVE 20' +/-

I6064-36

BL-37

FOR -L_SB- PROFILE SEE SHT.37

FOR -L_NB- PROFILE SEE SHT.37

FOR -YIRPA- PROFILE SEE SHT.54

1 NCDOT

2 MARYLYN BRITT

3 ALFRED THOMPSON

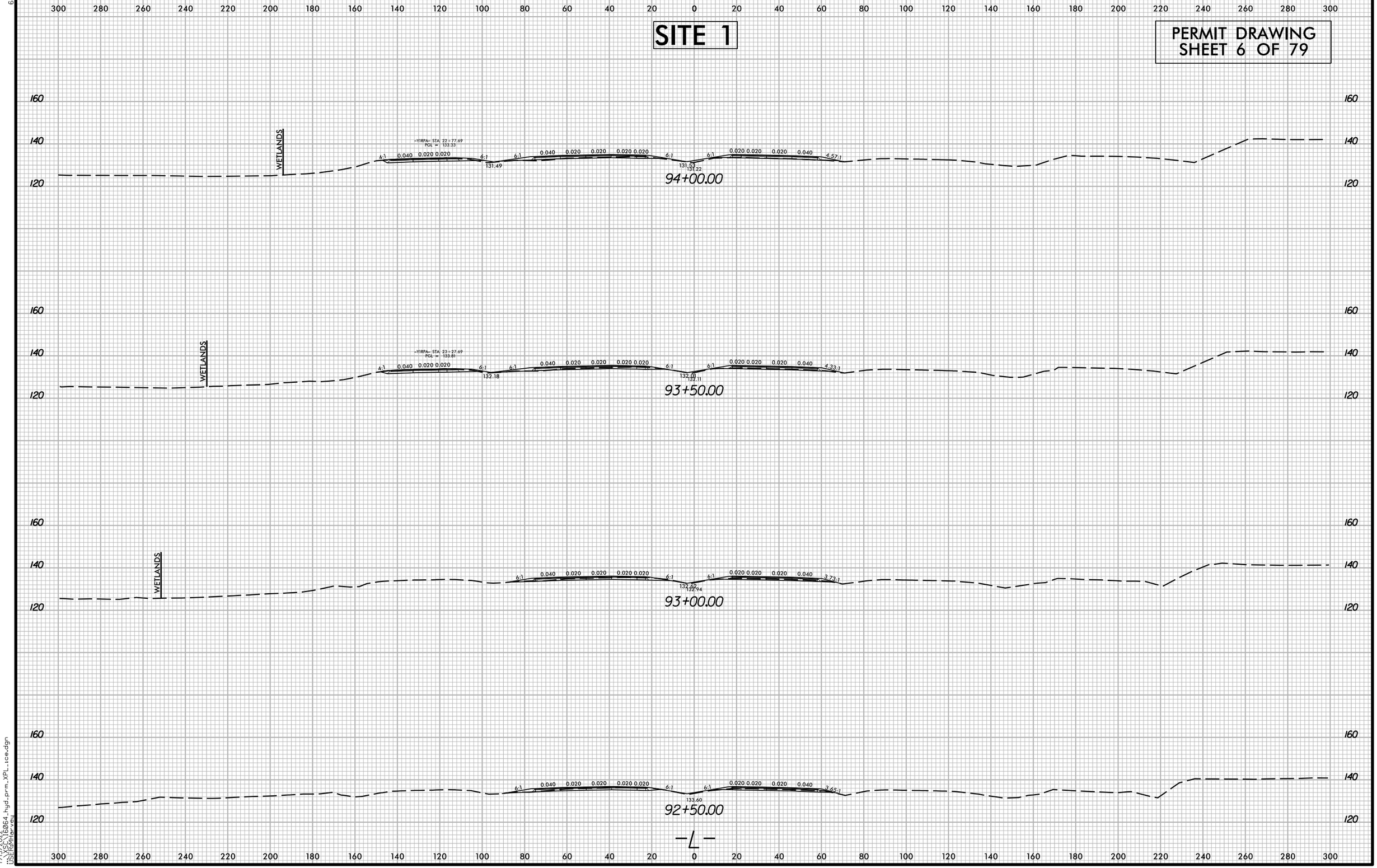
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Matt.Harvey

6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-14

SITE 1

PERMIT DRAWING
SHEET 6 OF 79



7/13/2022
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USERMHarvey

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PROJECT REFERENCE NO.	SHEET NO.
I-6084/I-5879	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83

PERMIT DRAWING
SHEET 7 OF 79

F F FILL IN WETLAND

* * MECHANIZED CLEARING (GRUBBING)

S S SURFACE WATER IMPACTS

200' 0' 200'
GRAPHIC SCALE

SEE SHEET 10 OF 79 FOR ENLARGED VIEW

SITE 3

SEE SHEET 9 OF 79 FOR ENLARGED VIEW

SITE 2

MATCHLINE -L- STA. 94+00.00 (SEE SHEET 5)

MATCHLINE -L- STA. 122+00.00 (SEE SHEET 7)

FOR -LSB- PROFILE SEE SHT.38	FOR -L- PROFILE SEE SHT.39
FOR -YIRPA- PROFILE SEE SHT.54	FOR -SR6- PROFILE SEE SHT.80
FOR -YIRPD- PROFILE SEE SHT.54	FOR -SR10- PROFILE SEE SHT.90

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.

SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.

GRAPHIC SCALE
50 25 0 50 100
PLANS

DATE PLOTTED: 12-JUL-21 08:54
FILE NAME: C:\Users\chrisgan\projects\projects\I-6084\I-6084_RDY_PLANS\sheets\I-6084_RDY_PLANSsheets_ITE.dgn

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 8 OF 79

North

F F FILL IN WETLAND

* * MECHANIZED CLEARING (GRUBBING)

TS TS TEMPORARY SURFACE WATER IMPACTS

200' 0' 200'
GRAPHIC SCALE

SEE SHEET 9 OF 79 FOR ENLARGED VIEW

SITE 3

SITE 2

SEE SHEET 9 OF 79 FOR ENLARGED VIEW

MATCHLINE -L- STA. 94+00.00
(SEE SHEET 5)

MATCHLINE -L- STA. 122+00.00
(SEE SHEET 7)

FOR -LSB- PROFILE SEE SHT.38	FOR -L- PROFILE SEE SHT.39
FOR -YIRPA- PROFILE SEE SHT.54	FOR -SR6- PROFILE SEE SHT.80
FOR -YIRPD- PROFILE SEE SHT.54	FOR -SR10- PROFILE SEE SHT.90

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.

SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.

GRAPHIC SCALE
50 25 0 50 100
PLANS

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FLOWABLE FILL

GRADE TO DRAIN

REMOVE

REMOVE

REMOVE

REMOVE
18" RCP–III

TB 2GI

TB 2GI

RETAIN

GRADE TO DRAIN

REMOVE

SP. DET. 2GI–A

30" RCP–III

36" RCP–III

24" RCP

REMOVE

15" RCP–IV

TB 2GI

TB 2GI

15" RCP–IV

TB 2GI

TB 2GI

18" RCP–IV

TB 2GI

18" RCP–III

SP. DET. TB 2GI
24" RCP–III

24" RCP–III

TB 2GI

15" RCP–III

TB 2GI

18" RCP–III

TB 2GI

CL I RIP RAP
EST. 10 TONS
EST. 23 SY GF

100+00

100+00

105+00

15+00

20+00

TOP=130.29'
INV=126.02

INV=126.03

INV=125.04'
TOP=128.72'
INV=124.97'

INV=124.01'

CABLE

GRASS

MTL

CONC BARRIER WALL

BRIDGE DECK

CONC SHOULDER

SEAT ELEV= 150.33'

BL-39

BY I-41

WLB

F

C

40' 0' 40'

GRAPHIC SCALE

NAD 83

SITE 2 ENLARGEMENT

PERMIT DRAWING SHEET 9 OF 79

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

9/1/2020
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40′ 0′ 40′

GRAPHIC SCALE

SITE 3 ENLARGEMENT

PERMIT DRAWING SHEET 10 OF 79

S S SURFACE WATER IMPACTS

NAD 83

BST BRIDGE DECK

JS

Back Sw

WLB

SURFACE WATER IMPACTS

S

JS

Back Swamp

CL II RIP RAP
EST. 15 TONS
AT EMBANKMENT
SEE DETAIL H

LATERAL 5′ BASE DITCH

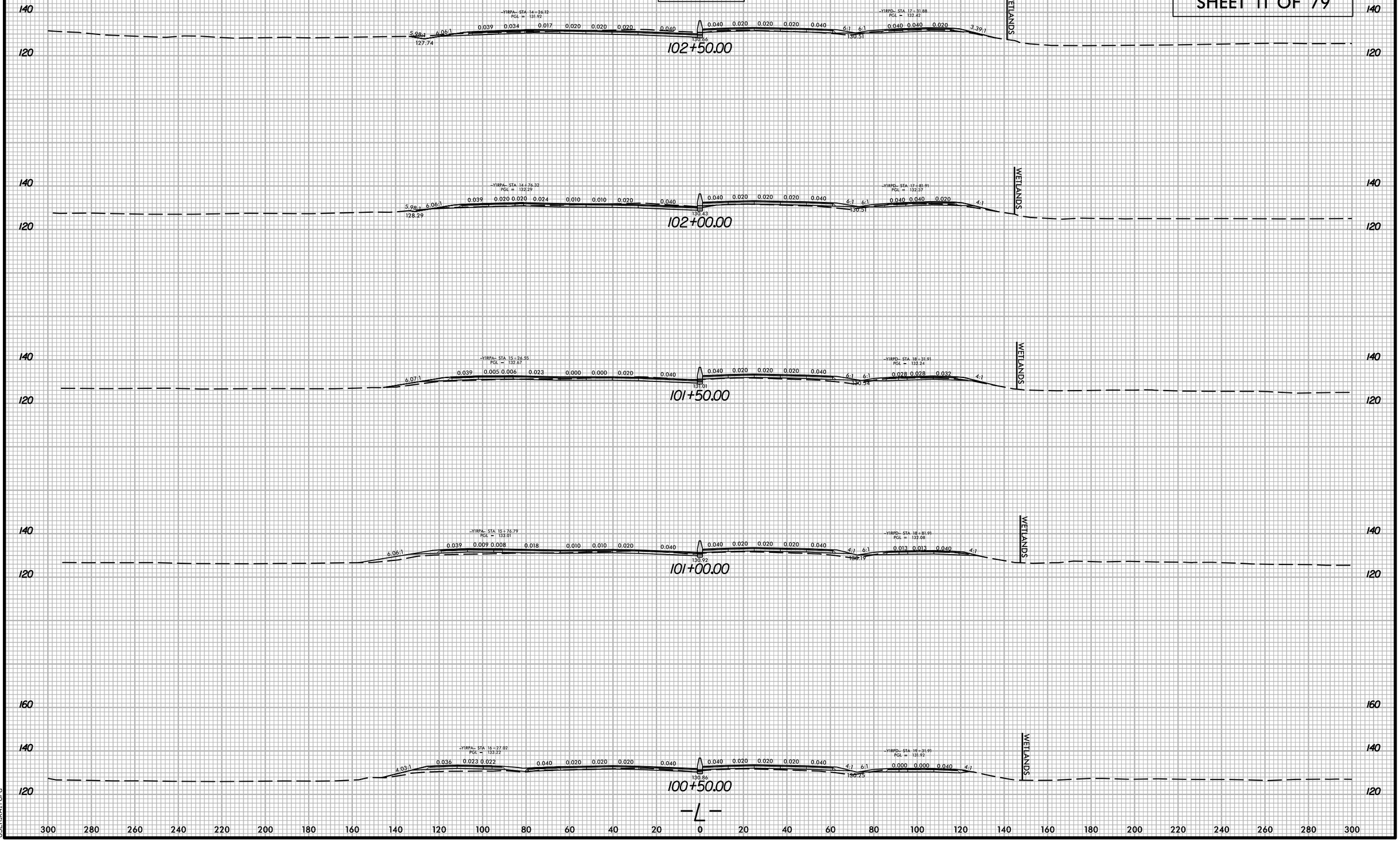
6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-18

SITE 2

PERMIT DRAWING
SHEET 11 OF 79

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



8/2/2022
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8/17/99

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License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	8A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

S/S SURFACE WATER IMPACTS

TS/TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

PERMIT DRAWING SHEET 12 OF 79

REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 8A

NAD 83

INSET "A"

410 CL I RIP RAP EST. 52 TONS EST. 100 SY GF

PDE

INV=122.52'

48"

HW 48"

18" CMP

REMOVE

TS

SS

INV=119.38'

NAD 83

SITE 4

22
XMC PROPERTIES, LLC

MATCHLINE (SEE SHEETS 7 AND 8)

2GI

36"

RETAIN EX. DITCH AND ADJUST AS NECESSARY

CL I RIP RAP EST. 30 TONS EST. 60 SY GF

410

STD. 8' BASE DITCH SEE DETAIL E

SEE INSET "A"

14
BHDNC,LLC

INV=122.29'

INV=122.02'

24" HDPE

INV=122.18'

INV=122.48'

INV=122.80'

INV=123.18'

CLASS B RIP-RAP EST. 30 TONS EST. 60 SY GF

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

$DATE$ $TIME$
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Kevin.Alford

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	8A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

S / S SURFACE WATER IMPACTS

TS / TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

PERMIT DRAWING SHEET 13 OF 79

REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 8A

INSET "A"

NAD 83

410

CL I RIP RAP
EST. 52 TONS
EST. 100 SY GF

PDE

48"

HW 48"

REMOVE

TS

SITE 4

22
XMC PROPERTIES, LLC

14
BHDNC,LLC

MATCHLINE
(SEE SHEETS 7 AND 8)

36"

2GI

RETAIN EX. DITCH AND
ADJUST AS necessary

CL I RIP RAP
EST. 30 TONS
EST. 60 SY GF

CLASS B RIP RAP
EST. 30 TONS
EST. 60 SY GF

INV=122.29

INV=122.08

INV=122.48

INV=122.80

INV=123.81

STD. 8' BASE DITCH
SEE DETAIL E

SEE INSET "A"

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

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8/17/99

$DATE$ $TIME$
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Kaitlord

FLATIRON UNITED INFRASTRUCTURE GROUP

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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
1-6064/1-5879	10A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

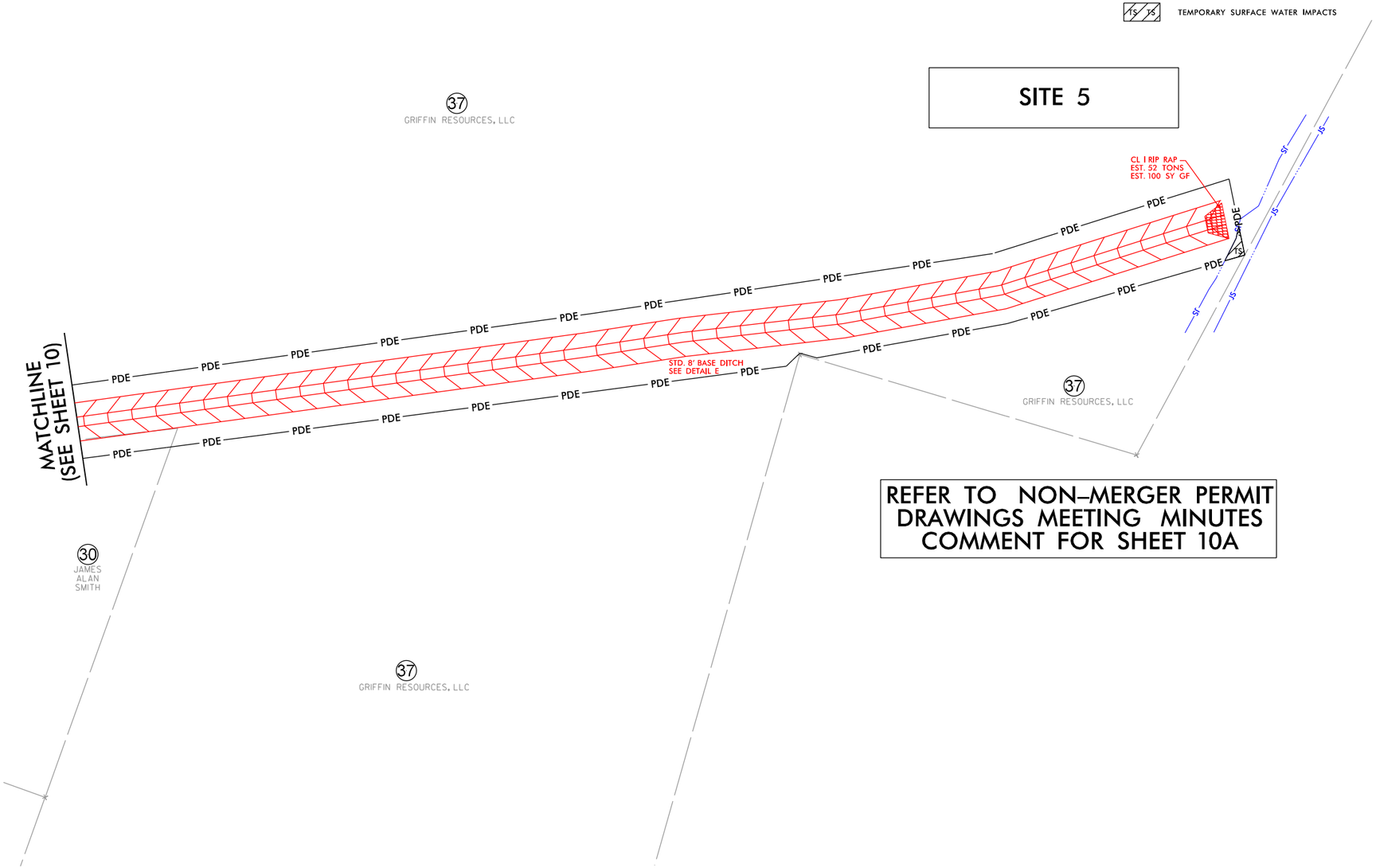
NAD 83

PERMIT DRAWING SHEET 14 OF 79

100' 0' 100'
GRAPHIC SCALE

TS TS TEMPORARY SURFACE WATER IMPACTS

SITE 5



REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 10A

50' 25' 0' 50' 100'

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	10A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 15 OF 79

NAD 83

100' 0' 100'

GRAPHIC SCALE

TS TS TEMPORARY SURFACE WATER IMPACTS

SITE 5

CL I RIP RAP
EST. 57 TONS
EST. 100 SY GF

PDE

STD. 8'-BASE DITCH
SEE DETAIL E

TS

MATCHLINE (SEE SHEET 10)

37 GRIFFIN RESOURCES, LLC

30 JAMES ALAN SMITH

REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 10A

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

$DATE$ $TIME$
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Kalford

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FLATIRON UNITED INFRASTRUCTURE GROUP

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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 16 OF 79

SITE 6

WETLAND EXCAVATION

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'

GRAPHIC SCALE

NAD 83

MATCHLINE -L- STA. 204+00.00 (SEE SHEET 12)

MATCHLINE -L- STA. 217+00.00 (SEE SHEET 14)

58 Q10=112.5 cfs V10=1.0 fps

59 I. S. LOCKLEAR HEIRS

60 BILLIE JO SANDERSON

61 BILLIE JO SANDERSON

62 ARLIS SIMPSON

63 ARLIS SIMPSON

64 BARBARA SIMPSON

65 FAITH DELIVERANCE CENTER OF TRUTH, INC.

54 JAMES H. ADAMS, JR

66 JOHN SMITH BARNES HEIRS

67 JOSE ARISTEO MEDINA

68 MAEZONIA MCCALLUM

69 NEIL ARCHIE TERRY

70 MICHAEL WASHINGTON

71 CLAUDIA PATTERSON

72 ARNELL JUNIOR MOORE

73 CITY OF LUMBERTON

74 K.M. BIGGS

75 MISSIONARY GOSPEL TABERNACLE

76 WELBERT HUNT

77 WELBERT HUNT

78 HS&D INVESTMENTS, INC

79 MOUNT HAVEN CHURCH

80 KAYSER-ROTH CORPORATION

FOR -L- PROFILE SEE SHT.43
NORTHBOUND R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE. FOR -SR6- PROFILE SEE SHT.83
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE. FOR -SRIO- PROFILE SEE SHT.93

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 17 OF 79

MECHANIZED CLEARING (GRUBBING)

FILL IN WETLAND

WETLAND EXCAVATION

100' 0' 100'

GRAPHIC SCALE

SITE 6

Q10=112.5 cfs
V10=1.0 fps

NAD 83

MATCHLINE -L- STA. 204+00.00 (SEE SHEET 12)

MATCHLINE -L- STA. 217+00.00 (SEE SHEET 14)

FOR -L- PROFILE SEE SHT.43	
NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.83
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR10- PROFILE SEE SHT.93

$DATE$
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 18 OF 79

WETLAND EXCAVATION
FILL IN WETLAND
MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SEE INSET "A"

INSET "A"

SITE 6

MATCHLINE -L- STA. 230+00.00 (SEE SHEET 14)

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 16)

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44	FOR -SR10- PROFILE SEE SHT.94
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84	FOR -SR9- PROFILE SEE SHT.89

$DATE$
$TIME$
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dlarvey

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 19 OF 79

SITE 6

SEE INSET "A"

INSET "A"

WETLAND EXCAVATION
FILL IN WETLAND
MECHANIZED CLEARING (GRUBBING)

GRAPHIC SCALE 100' 0' 100'

NAD 83

MATCHLINE -L- STA. 230+00.00 (SEE SHEET 14)

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 16)

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44	FOR -SR10- PROFILE SEE SHT.94
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84	FOR -SR9- PROFILE SEE SHT.89

$TIME$
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 20 OF 79

SITE 7

WETLAND EXCAVATION
FILL IN WETLAND
MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 15)

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 17)

Q10=73.2 cfs
V10=8.8 fps

CL I RIP RAP EST. 33 TONS EST. 62 SY GF
CL I RIP RAP EST. 48 TONS EST. 89 SY GF
CL B RIP RAP EST. 8 TONS EST. 21 SY GF
CL B RIP RAP EST. 2 TONS EST. 7 SY GF
CL B RIP RAP EST. 3 TONS EST. 10 SY GF
CL I RIP RAP EST. 66 TONS EST. 248 SY GF
CL B RIP RAP EST. 20 TONS EST. 75 SY GF
CL B RIP RAP EST. 5 TONS EST. 14 SY GF

5' BASE DITCH CLEANOUT SEE DETAIL AV
10' BASE DITCH CLEANOUT SEE DETAIL AF
6' BASE DITCH CLEANOUT SEE DETAIL AV

SP. LAT. 5' BASE DITCH SEE DETAIL B
SP. LAT. 2' BASE DITCH SEE DETAIL A

100 CHARLES MCNEILL
90 AL-WHIT LLC
101 CHARLES MCNEILL
96 CHARLES MCNEILL
95 SAMIN CORPORATION
93 HEYWARD EXENDINE
98 CLAYBOURN WALTERS
99 MACK WHITE INVESTMENTS INC

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84
	FOR -SR9- PROFILE SEE SHT.89

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 21 OF 79

SITE 7

WETLAND EXCAVATION

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

Q10 = 73.2 cfs
V10 = 6.8 fps

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 15)

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 17)

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84
	FOR -SR9- PROFILE SEE SHT.89

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$TIME$
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 22 OF 79

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 8

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 18)

99 MACK WHITE INVESTMENTS INC

103 MACK WHITE INVESTMENTS INC

104 MACK WHITE INVESTMENTS INC

105 CB OF EDENTON LLC

106 JHS ROBESON PROPERTIES LLC

107 OUTDOOR REALTY LLC

108 JEANNETTE MARTIN

109 HEIRS OF S.B. ATKINSON

111 THE CITY OF LUMBERTON

101 CHARLES MCNEILL

102 THE LUMBER RIVER CONSERVANCY

FOR -SR6- PROFILE SEE SHTS.84 THRU 85		
NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.45	FOR -Y2RPB- PROFILE SEE SHT.57
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 23 OF 79

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 8

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 18)

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.45	FOR -Y2RPB- PROFILE SEE SHT.57
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

FOR -SR6- PROFILE SEE SHTS.84 THRU 85

$DATE$ $TIME$
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MHarvey

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License # P-0698

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 24 OF 79

200' 0 200'
GRAPHIC SCALE

NAD 83

F F FILL IN WETLAND
S S SURFACE WATER IMPACTS
MECHANIZED CLEARING (GRUBBING)
E E WETLAND EXCAVATION

SITE 8

SITE 9

SITE 10

SEE SHEET 26 OF 79 FOR ENLARGED VIEW

SEE SHEET 28 OF 79 FOR ENLARGED VIEW

SEE SHEET 27 OF 79 FOR ENLARGED VIEW

MATCHLINE –L– STA. 269+00.00
(SEE SHEET 17)

MATCHLINE –L– STA. 297+00.00
(SEE SHEET 19)

CALLOUT LEGEND
(A) -Y2- PC Sta. 17+60.62
(B) -Y2RPA- POT Sta. 25+46.16 « -Y3- POC Sta. 21+12.99
(C) -Y2RPB- POT Sta. 21+71.50 « -Y2- POC Sta. 21+23.40
(D) -Y2- PT Sta. 26+63.20
(E) -SR10A- PT Sta. 14+86.15

	FOR -L- PROFILE SEE SHTS.45 THRU 46	
FOR -SR7- PROFILE SEE SHTS.85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT.56	
FOR -SR8- PROFILE SEE SHTS.87-88	FOR -Y2RPB- PROFILE SEE SHT.57	
FOR -Y2- PROFILE SEE SHT.55	FOR -Y2RPC- PROFILE SEE SHTS.57	
FOR -SR10A- PROFILE SEE SHT.94	FOR -Y2RPD- PROFILE SEE SHT.58	

☆ PROPOSED SIGNAL
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

#SEAL#
#SIGNATURE#
#DATE#
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License # P-0698

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 25 OF 79

GRAPHIC SCALE 200' 0 200'

NAD 83

F F FILL IN WETLAND

S S SURFACE WATER IMPACTS

MECHANIZED CLEARING (GRUBBING)

E E WETLAND EXCAVATION

SITE 8

SITE 10

SITE 9

SEE SHEET 26 OF 79 FOR ENLARGED VIEW

SEE SHEET 28 OF 79 FOR ENLARGED VIEW

SEE SHEET 27 OF 79 FOR ENLARGED VIEW

MATCHLINE –L– STA. 269+00.00 (SEE SHEET 17)

MATCHLINE –L– STA. 297+00.00 (SEE SHEET 19)

CALLOUT LEGEND
(A) -Y2- PC Sta. 17+60.62
(B) -Y2RPA- POT Sta. 25+46.16 « -Y2- POC Sta. 21+12.99
(C) -Y2RPB- POT Sta. 21+71.50 « -Y2- POC Sta. 21+25.40
(D) -Y2- PT Sta. 26+63.20
(E) -SR10A- PT Sta. 14+86.15

PROPOSED SIGNAL

PAVEMENT REMOVAL

FOR -L- PROFILE SEE SHTS.45 THRU 46	
FOR -SR7- PROFILE SEE SHTS.85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT.56
FOR -SR8- PROFILE SEE SHTS.87-88	FOR -Y2RPB- PROFILE SEE SHT.57
FOR -Y2- PROFILE SEE SHT.55	FOR -Y2RPC- PROFILE SEE SHTS.57
FOR -SR10A- PROFILE SEE SHT.94	FOR -Y2RPD- PROFILE SEE SHT.58

GRAPHIC SCALE
50 25 0 50 100
PLANS

ROUTE 87 NB & 87 SB
FROM NC 211 TO NC 904
BRUNSWICK COUNTY

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102

THE LUMBER RIVER CONSERVANCY

WOODS

NAD 83

BILLBOARD

CL I RIP RAP
EST. 26 TONS
EST. 50 SY GF

CL I RIP RAP
EST. 15 TONS
EST. 30 SY GF

TOE PROTECTION
SEE DETAIL G

REMOVE HW

PLUG

36" RCP–III

18" RCP

4' CONC. HW

6.9 cfs
6 fps

PUE PUE PUE DUE PUE

RW
CA

DUCKBILL

CL B RIP RAP
EST. 1 TONS
EST. 5 SY GF

15" GAAP W/ GASKET
ROD AND LUG CONNECTORS
W/ 2 ELBOWS

TOE PROTECTION
SEE DETAIL G

EXIST. R/W

PROP. MOD

2GI

2GI

15" RCP–III

15+00

48" WW

REMOVE HW

PLUG

SURFACE WATER
IMPACTS

4' CONC. HW

23" BST

24" RCP

FLOWABLE FILL

REMOVE DI

27+00

TOP=125.09'
INV=11

PLUG

DI 15" RCP

TOP=125.17'
INV=116.04'

INV=113.06'

REMOVE 15"

48" WEL

CONC MEDIAN

MATCHLINE –L– STA. 269+00.00
(SEE SHEET 17)

40' 0' 40'

GRAPHIC SCALE

FS

2GI-A

PLUG

18" RCP

15" RCP–III

REMOVE DI

TB 2GI

REMOVE DI

FLOWABLE FILL

INV=119.30'

TB 2GI

SITE 8 ENLARGEMENT

PERMIT DRAWING SHEET 26 OF 79

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

SITE 9 ENLARGEMENT

40′ 0′ 40′
GRAPHIC SCALE

LAT. 2′ BASE DITCH
SEE DETAIL AH

PERMIT DRAWING
SHEET 27 OF 79

F F FILL IN WETLAND
S S SURFACE WATER IMPACTS
E E WETLAND EXCAVATION

NAD 83

REMOVE CONCRETE DITCH
15″
42″ RCP–III
HW
SP. DET. 2GI
REMOVE
REMOVE
REMOVE
REMOVE HW
CB
15″ WSP
JB w/MH
30″ RCP–III
CB 48″ RCP–III
REMOVE DI
48″ RCP–III
15″ RCP–III
15″ RCP–III
CB
PDE
PDE
2GI
DI
15″ RCP–III
10+00
20+00
TL
SP. LAT. 2′ BASE DITCH SEE DETAIL A
REMOVE HW
REMOVE
PLUG
REMOVE HW
REMOVE CB
PLUG
FLOWABLE FILL
RETAIN DI
RETAIN SYSTEM
132
RETAIN CB
RETAIN
POSSIBLE
CB 24″ RCP–III
24″ RCP–III
30″ RCP–III
15″ CAAP
W/GASKET,
DD AND LUG
ONNECTORS
/2 ELBOWS
2GI
CL B RIP RAP
EST. 8 TONS
EST. 21 SY GF
JB w/MH
REMOVE CB
PLUG
TBDI
RIP RAP
30″ C&G
24″ C&G
30″ CMP
36″ CMP
36″ BST
BST
EXISTING R/W
ISBLK BUS
COLBY'S RESTAURANT LLC
INV=126.06′
INV=114.59′
TOP=118.65′
INV=114.64′
INV=114.44′
INV=107.41′
4′ CONC HW
TOP=121.19′
INV=116.69′
TOP=121.37′
INV=118.37′
TOP=121.25′
INV=116.80′
INV=116.96′
INV=116.63′
TOP=127.20′
INV=115.18′
INV=115.98′

40′ 0′ 40′

GRAPHIC SCALE

SITE 10 ENLARGEMENT

NAD 83

E. M. BRITT

WOODS

PUE DUE DUE DUE DUE DUE DUE DUE DUE PUE

TEMPORARY EXCAVATION DUE TO TRENCHLESS PIPE INSTALLATION

CL I RIP RAP
EST. 26 TONS
EST. 50 SY GF

DUCKBILL

PLUG

TOE PROTECTION SEE DETAIL G

CL B RIP RAP
EST. 3 TONS
EST. 10 SY GF

TEMPORARY EXCAVATION DUE TO TRENCHLESS PIPE INSTALLATION

TOE PROTECTION SEE DETAIL G

CL I RIP RAP
EST. 15 TONS
EST. 30 SY GF

DUCKBILL

TOE PROTECTION SEE DETAIL G

FLOWABLE FILL

PLUG

REMOVE HW

PLUG

5′ CONC HW
INV=111.36′
NOT BURIED

WELDED STEEL

25+00

EXISTING R/W

TV FO

SR 1588 COX RD 18" BST

REMOVE

REMOVE JB

PLUG

48" WW

GRASS

MTL

MOVE DI

TOP=118.19′
INV=111.71′

18" RCP JB PER PLANS

REMOVE PLUG REMOVE PLUG

FLOWABLE FILL

REMOVE DI

TOP=123.37′
INV=116.47′

REMOVE 15" PLUG

15" RCP DI

TOP=124.20′
INV=116.38′

PLUG

FLOWABLE FILL

FLOWABLE FILL

D STEEL

+00

18" WELDED STEEL

36" WELDED STEEL

295+00

TB 2GI

TB 2GI

15" WELDED STEEL

TB 2GI

FLOWABLE FILL

REMOVE DI

PLUG

PLUG

TOP=116.83′
INV=113.74′
INV=113.76′

REMOVE OF 15"

15" RCP-III

INV=112.78′

FLOWABLE FILL

PLUG

INV=113.31′

4 CONC HW

REMOVE HW

PLUG

18" WW

PERMIT DRAWING
SHEET 28 OF 79

F F FILL IN WETLAND

S S SURFACE WATER IMPACTS

MECHANIZED CLEARING (GRUBBING)

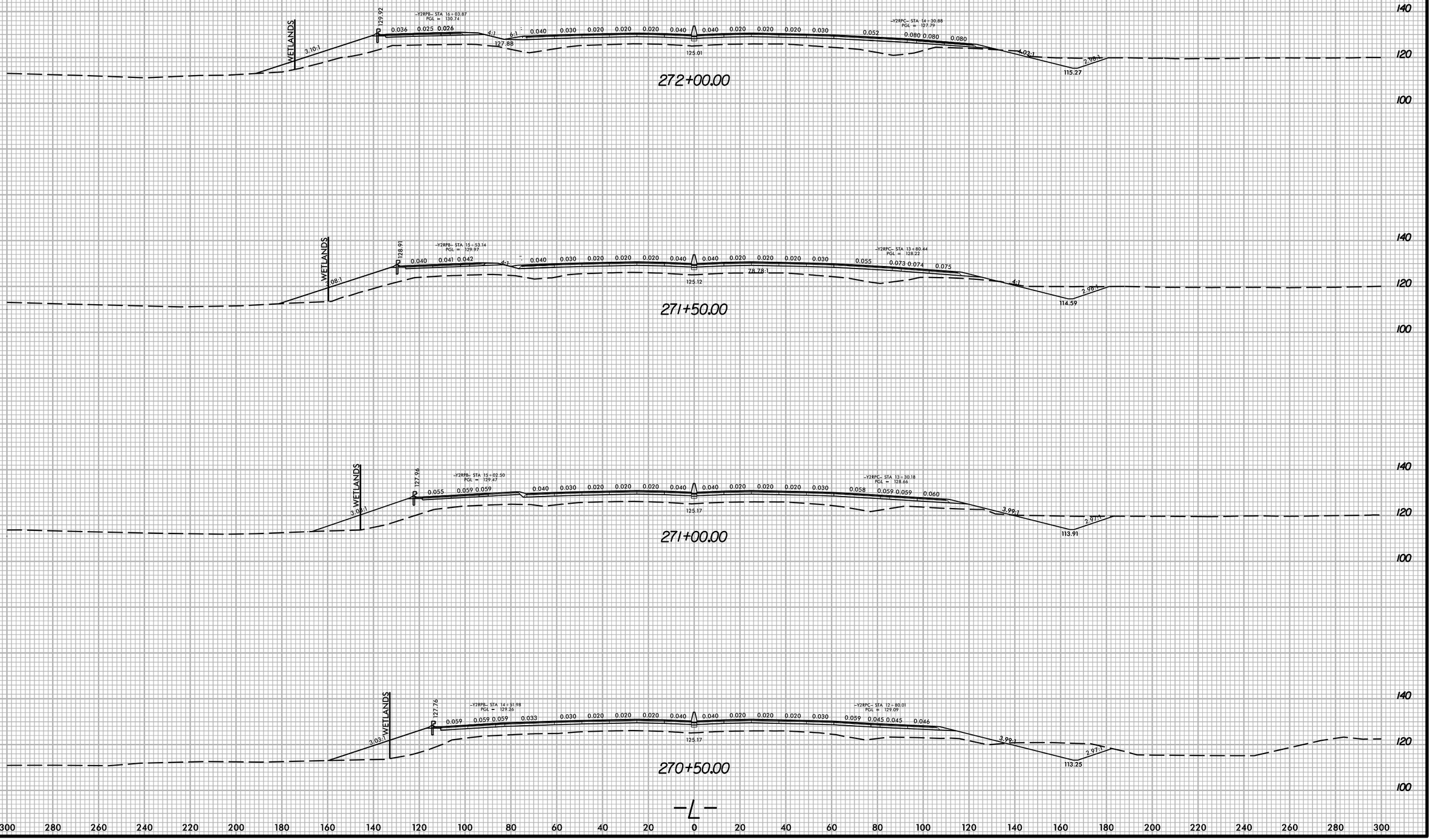
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6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-91

SITE 8

PERMIT DRAWING
SHEET 29 OF 79



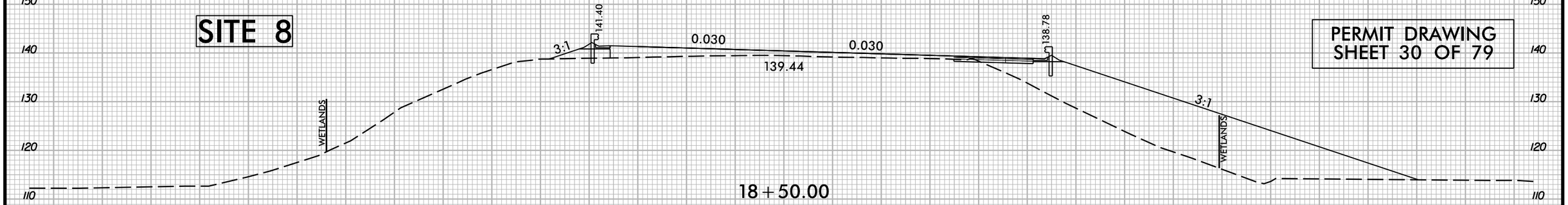
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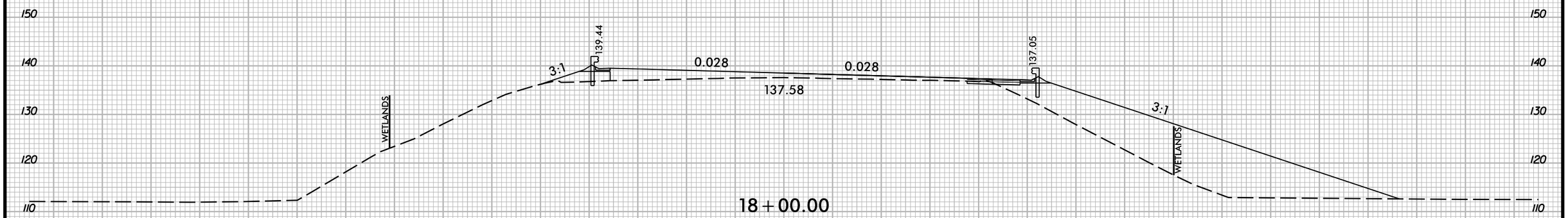
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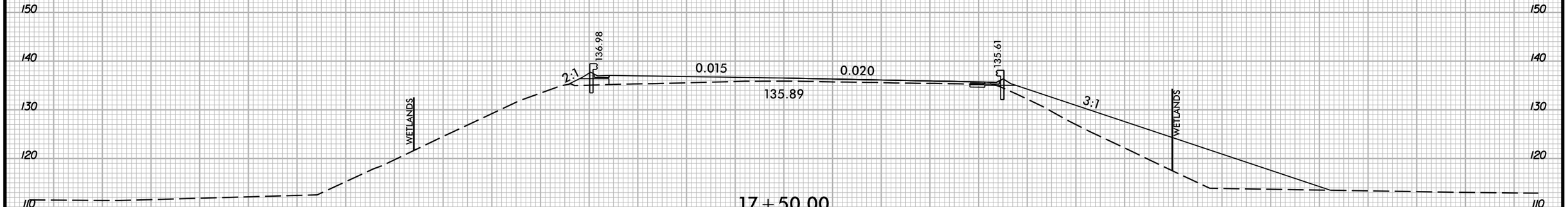
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	I-6064/I-5879	X-211

SITE 8

PERMIT DRAWING
SHEET 30 OF 79







-Y2-

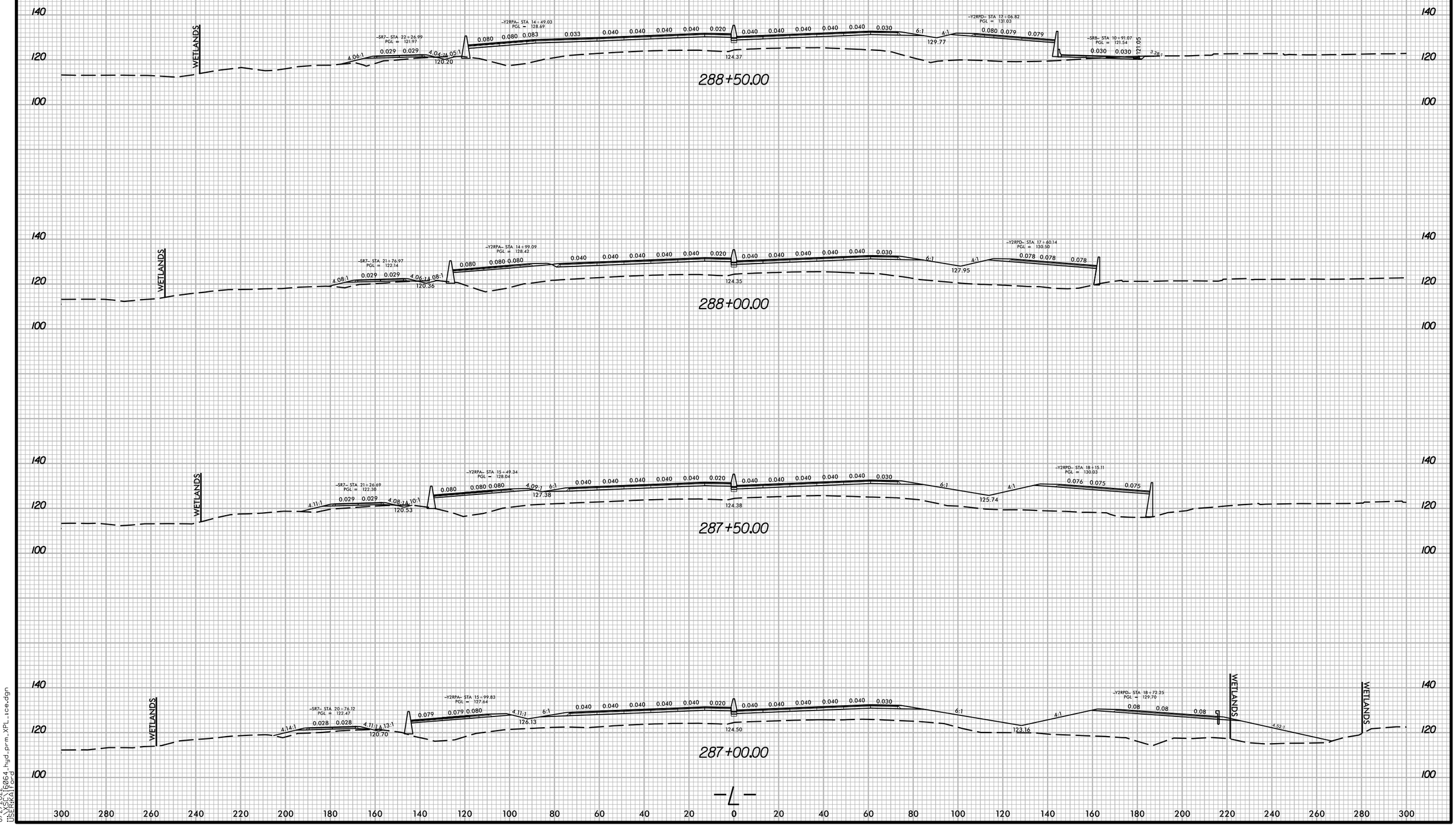
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	I-6064/I-5879	X-100

SITE 9

PERMIT DRAWING
SHEET 31 OF 79



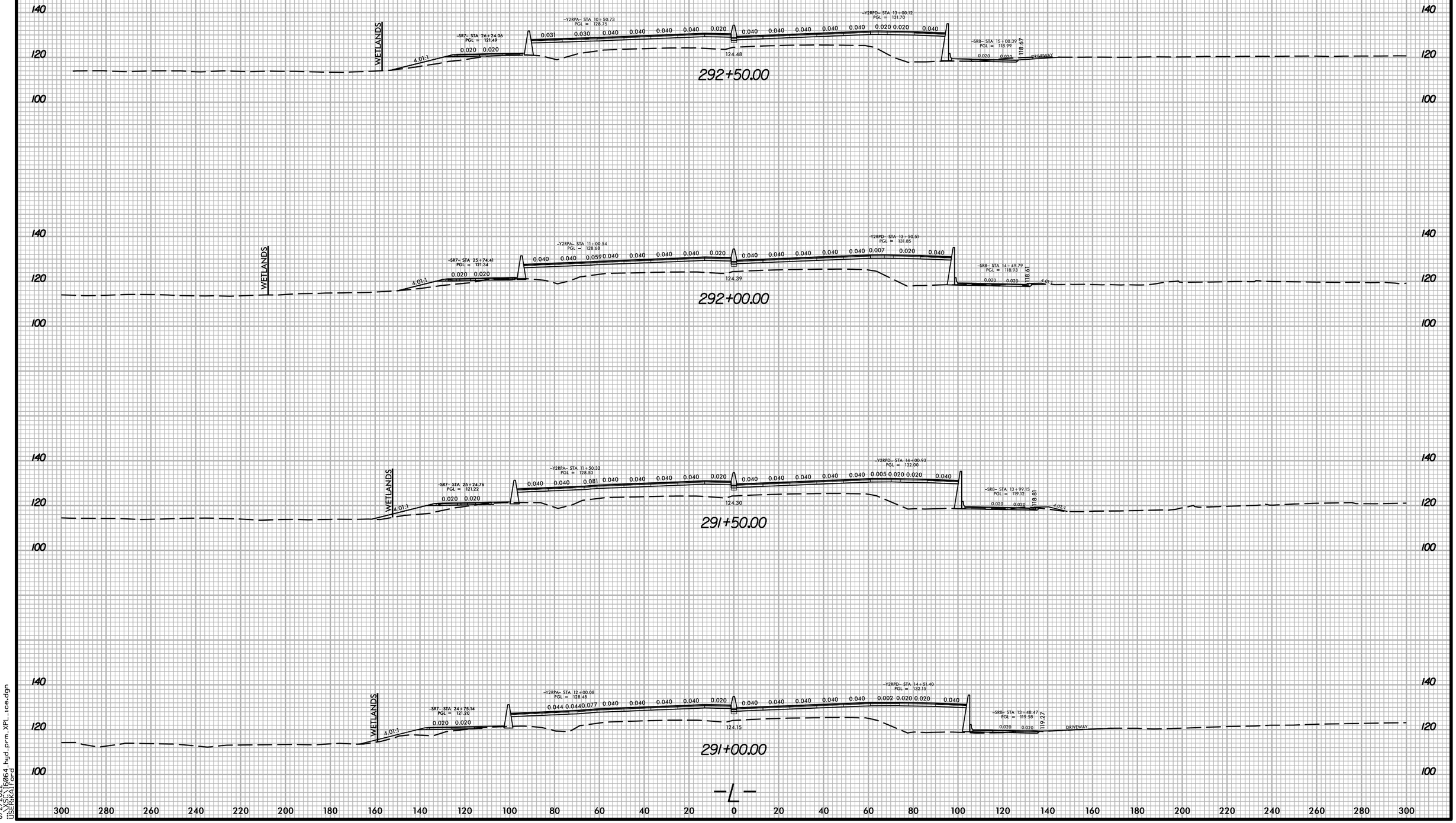
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6/23/16

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	I-6064/I-5879	X-102

SITE 10

PERMIT DRAWING
SHEET 32 OF 79



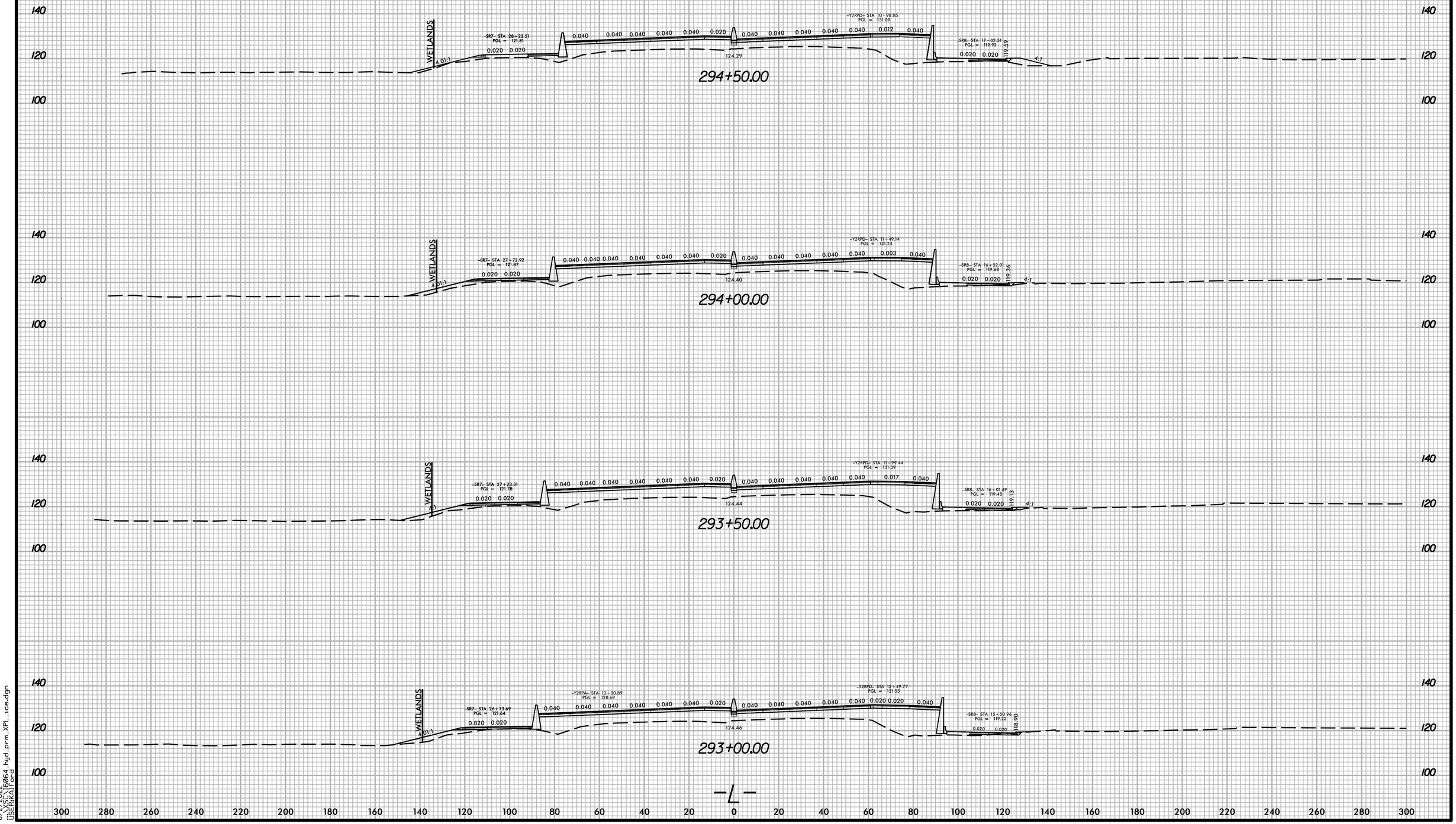
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6/23/16

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	I-6064/I-5879	X-103

SITE 10

PERMIT DRAWING
SHEET 33 OF 79



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8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
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Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 34 OF 79

NAD 83

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

SITE 10

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 18)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 20)

Q10=15.7 cfs V10=1.6 fps

Q10=61.0 cfs V10=1.6 fps

140 D.D. KING FAMILY PROPERTIES LLC

141 HUBERT OXENDINE

142 JOHN VALADE

143 MARIYKA STANISLAVOVA

144

145 JOHN VALADE

146 MILDRED HUNT

147 K P FOODS INC

148 MARY LOUISE STEPHENS

149 MARY LOUISE STEPHENS

150 HORACE HARDIN

151 O'REILLY AUTOMOTIVE STORES INC

152 RALPH LOCKLEAR

153 K M BIGGS INCORPORATED

154 HEAVARD OXENDINE

THE SCHAFER COMPANY INC

SR 1588 COX RD (SR 8)

SR 1592 HESTER DR (20' BST)

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

STD 4' BASE DITCH SEE DETAIL V

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

CL I RIP RAP EST. 10 TONS EST. 23 SY GF

SP. LAT. 2' BASE DITCH SEE DETAIL A

TOE PROTECTION SEE DETAIL G

SP. LAT. 5' BASE DITCH SEE DETAIL B

SP. LAT. 4' BASE DITCH SEE DETAIL AJ

SP. CUT 2' BASE DITCH SEE DETAIL T

SP. LAT. 2' BASE DITCH SEE DETAIL A

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

BEVELED HW SEE SPECIAL DETAIL

RETAIN & ADJUST

LOCATE & REMOVE

LOCATE AND PLUG

FLOWABLE FILL

REMOVE DI

REMOVE FES

REMOVE HW

PLUG

EXIST.R/W

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. | FOR -SR8- PROFILE SEE SHTS.87 THRU 88

SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.46 | FOR -SR7- PROFILE SEE SHT.86

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MHarvey

8/17/99

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Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 35 OF 79

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 10

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 18)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 20)

140 141 142 143 144 145 146 147 148 149 150 151 152 153 154

S.D. KANG-KAMRIN PROPERTIES, LLC · HUBERT OXENDINE · JOHN VALADE · MARIYKA STANISLAVOVA · THE SCHAFER COMPANY INC · JOHN K VALADE · MILDRED HUNT · K P FOODS INC · MARY LOUISE STEPHENS · HORACE HARDIN · RALPH LOCKLEAR · K M BIGGS INCORPORATED · HEAVARD OXENDINE · O'REILLY AUTOMOTIVE STORES INC

Q10=15.7 cfs V10=1.6 fps

Q10=61.0 cfs V10=1.6 fps

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

STD 4' BASE DITCH SEE DETAIL V

SP. CUT 2' BASE DITCH SEE DETAIL T

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. LAT. 5' BASE DITCH SEE DETAIL B

SP. LAT. 4' BASE DITCH SEE DETAIL AJ

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

TOE PROTECTION SEE DETAIL G

BEVELED HW SEE SPECIAL DETAIL

FLOWABLE FILL · PLUG · REMOVE · REMOVE DI · REMOVE HW · REMOVE FES · LOCATE AND PLUG · LOCATE & REMOVE · RETAIN · RETAIN & ADJUST

SP. DET. TB 2GI-A · SP. DET. TB 2GI-A, 30" PP

TB 2GI · 15" PP · 18" PP · 24" PP · 30" PP · 36" PP · 15" RCP-IV · 15" WELDED STEEL · 18" WELDED STEEL · 24" WELDED STEEL · 36" WELDED STEEL

DUCKBILL · EXIST. R/W · EXISTING R/W · TY FOUR · TY FOUR MODIFIED · 2@30° · 5' CONC HW · S-CONC HW · 5' CONC

PDE · TDE · DUE · C · F · LT · CBM 12

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. | FOR -SR8- PROFILE SEE SHTS.87 THRU 88

SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.46 | FOR -SR7- PROFILE SEE SHT.86

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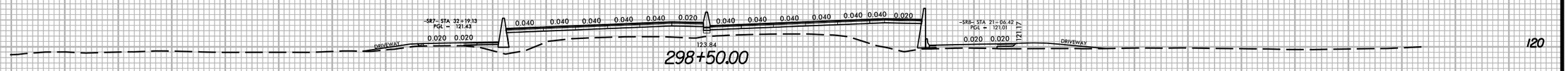
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	I-6064/I-5879	X-105

SITE 10

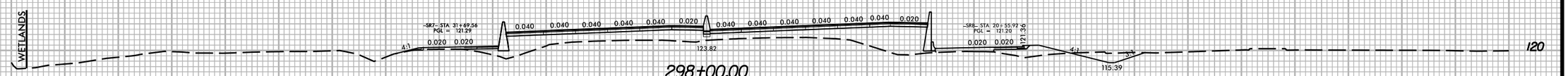
PERMIT DRAWING
SHEET 36 OF 79

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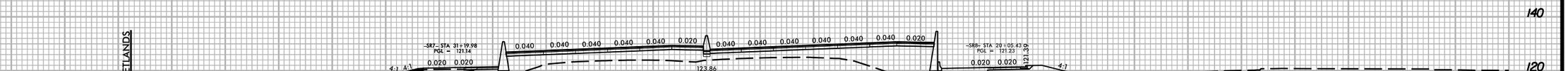
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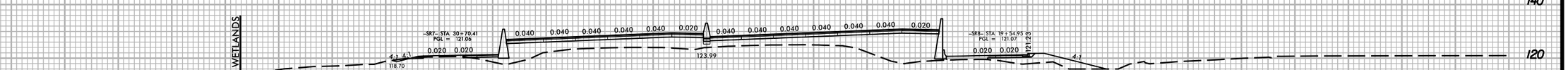
298+50.00



298+00.00



297+50.00



297+00.00

-L-

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USER:KAlford

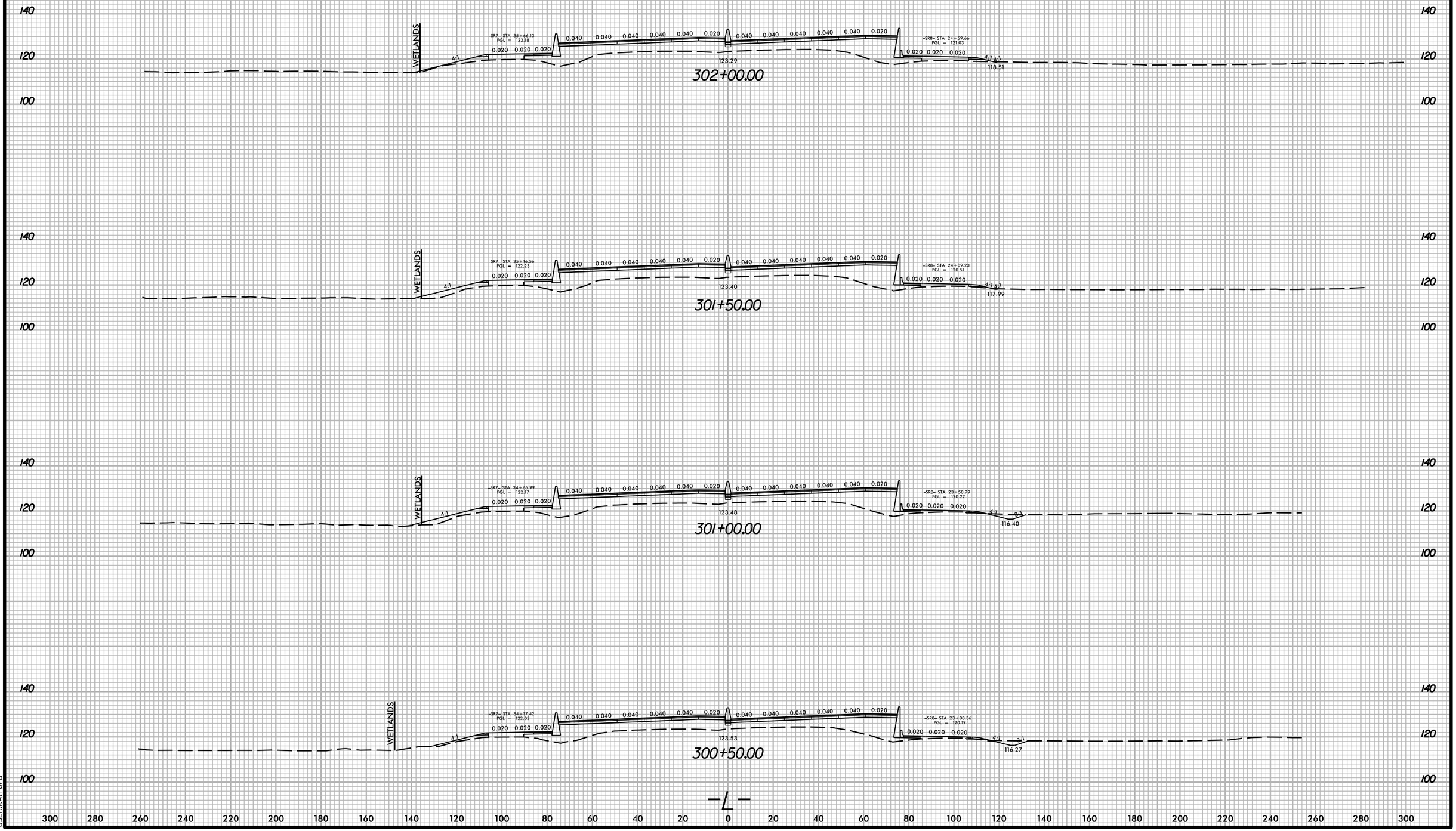
6/23/16

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	I-6064/I-5879	X-107

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SITE 10

PERMIT DRAWING
SHEET 37 OF 79



8/2/2022
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USER:KAlford

8/17/99

PERMIT DRAWING
SHEET 38 OF 79

FLATIRON UNITED INFRASTRUCTURE GROUP

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License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TS TS TEMPORARY SURFACE WATER IMPACTS

100′ 0′ 100′
GRAPHIC SCALE

NAD 83

MATCHLINE (SEE SHEET 20A)

MILE POST 295

INSET "A" -SR7- STA. 59+00.00

SITE 11

RETAIN

POND

TEMPORARY SURFACE WATER IMPACTS

SEE INSET "A" -SR7- STA. 59+00.00

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 19)

MATCHLINE -L- STA. 324+00.00 (SEE SHEET 21)

160 OMNISOURCE SOUTHEAST LLC

167 SPARTAN LLC

157 HUBERT OXENDINE

158 APRIL OXENDINE

159 OMNISOURCE SOUTHEAST LLC

146 MILDRED HUNT

161 OMNISOURCE SOUTHEAST LLC

156 ROBESON COUNTY

154 HEAVARD OXENDINE

155 H. DOBBS OXENDINE

162 H. DOBBS OXENDINE

163 ROBESON COUNTY

165 THE SHAFER COMPANY INC

164 ISBK CHURCH

166 WEST LUMBERTON CHURCH

168 FREEMAN ADVERTISING CO

169 FREEMAN INVESTMENTS

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

CL B RIP RAP EST. 3 TONS EST. 11 SY GF

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

STD. 5' BASE DITCH SEE DETAIL E

CL I RIP RAP EST. 33 TONS EST. 62 SY GF

STD. 2' BASE DITCH SEE DETAIL E

CL B RIP RAP EST. 2 TONS EST. 7 SY GF

REMOVE DI

STD. 5' BASE DITCH SEE DETAIL E

CL I RIP RAP EST. 33 TONS EST. 62 SY GF

DUCKBILLS

LAT. 2' BASE DITCH SEE DETAIL L

CL B RIP RAP EST. 2 TONS EST. 7 SY GF

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

CL I RIP RAP EST. 40 TONS EST. 75 SY GF

SP. 2' BASE CUT DITCH SEE DETAIL T

SP. LAT. 5' BASE DITCH SEE DETAIL B

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. CUT 2' BASE DITCH SEE DETAIL T

SP. CUT 'V' DITCH SEE DETAIL F

2' BASE CONC. DITCH BEHIND RETAINING WALL SEE DETAIL U

STD. V DITCH SEE DETAIL D

SP. 2' BASE CUT DITCH SEE DETAIL T

MEDIAN V DITCH SEE DETAIL C

PROPOSED DRAINAGE INTERIOR TO AND AROUND FLOODGATE TO BE PROVIDED BY OTHERS

TOE PROTECTION SEE DETAIL W

V 5' 4' BASE DITCH SEE DETAIL V

BEVELED HW SEE SPECIAL DETAIL

FLOWABLE FILL

REMOVE HW

REMOVE DI

LOCATE & FLOWABLE FILL

COULDN'T LOCATE PIPE

GRADE TO DRAIN

48" WW FENCE

18" WELDED STEEL

15" RCP-III

18" RCP-III

15" CAAP W/GASKET, RODS AND LUG CONNECTORS W/2 ELBOWS

CALLOUT LEGEND	
(A)	-SR7- PC Sta. 46+48.52
(B)	-SR7- PC Sta. 51+96.77
(C)	-SR7- PRC Sta. 55+44.30
(D)	-SRI2- POT Sta. 10+00.00 = -SR7- POC Sta. 57+31.96
(E)	-SRI2- PC Sta. 10+23.77
(F)	-SR8A- POT Sta. 10+00.00 = -SR8- POC Sta. 36+76.30
(G)	-SR8A- POT Sta. 13+86.95

PAVEMENT REMOVAL

FOR -L- PROFILE SEE SHT. 47

FOR -SR8A- PROFILE SEE SHT. 88

FOR -SR8- PROFILE SEE SHT. 88

FOR -SRI2- PROFILE SEE SHT. 95

FOR -SRI3- PROFILE SEE SHT. 96

FOR -SR7- PROFILE SEE SHTS. 86 THRU 87

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PERMIT DRAWING
SHEET 39 OF 79

FLATIRON UNITED INFRASTRUCTURE GROUP

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ICE of Carolinas, PLLC
4505 Falls of Neuse Road. Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TS TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'
GRAPHIC SCALE

NAD 83

MATCHLINE (SEE SHEET 20A)

SEE INSET "A" -SR7- STA. 59+00.00

INSET "A" -SR7- STA. 59+00.00

SITE 11

POND

TEMPORARY SURFACE WATER IMPACTS

RETAIN

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 19)

MATCHLINE -L- STA. 324+00.00 (SEE SHEET 21)

PROPOSED DRAINAGE INTERIOR TO AND AROUND FLOODGATE TO BE PROVIDED BY OTHERS

CALLOUT LEGEND	
(A)	-SR7- PC Sta. 46+48.52
(B)	-SR7- PC Sta. 51+96.77
(C)	-SR7- PRC Sta. 55+44.30
(D)	-SR12- POT Sta. 10+00.00 = -SR7- POC Sta. 57+31.96
(E)	-SR12- PC Sta. 10+23.77
(F)	-SR8A- POT Sta. 10+00.00 = -SR8- POC Sta. 36+76.30
(G)	-SR8A- POT Sta. 13+86.95

PAVEMENT REMOVAL	FOR -L- PROFILE SEE SHT. 47	FOR -SR8A- PROFILE SEE SHT. 88	FOR -SR8- PROFILE SEE SHT. 88	FOR -SR12- PROFILE SEE SHT. 95

FOR -SR13- PROFILE SEE SHT. 96

FOR -SR7- PROFILE SEE SHTS. 86 THRU 87

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$TIME$
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Matt Harvey

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FLATIRON UNITED INFRASTRUCTURE GROUP

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ICE of Carolinas, PLLC
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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 40 OF 79

NAD 83

WETLAND EXCAVATION

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'

GRAPHIC SCALE

SPARTAN LLC

167

EXIST.R/W

SITE 12

EXIST.R/W

EXISTING R/W

CONC

CONC. WALL

CONC. WALL

FULL OF SEDIMENT

CONC

CONC

CONC

MATCHLINE (SEE SHEET 20)

WLB

PDE

CL I RIP RAP
EST. 44 TONS
EST. 88 SY. GF

Q10=76.4 cfs
V10=1.5 fps

STD. 5' BASE DITCH
SEE DETAIL E

409

ALEX STANTON

160

OMNISOURCE SOUTHEAST LLC

INGRE'

REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 20A

$DATE$ $TIME$
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ICE of CAROLINAS, PLLC
ICE of Carolinas, PLLC
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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 41 OF 79

NAD 83

WETLAND EXCAVATION

FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

SITE 12

SPARTAN LLC
167
EXIST. R/W

EXIST. R/W
EXISTING R/W

PDE

WLB

CL I RIP RAP
EST. 44 TONS
EST. 88 SY GF

Q10=76.4 cfs
V10=1.5 fps

STD. 5' BASE DITCH
SEE DETAIL E

409
ALEX STANTON

160
OMNISOURCE SOUTHEAST LLC

CONC. MEDIAN

CONC. CURB & GUTTER

FULL DEPTH SEDMENT PAD

INGRE'

REFER TO NON-MERGER PERMIT DRAWINGS MEETING MINUTES COMMENT FOR SHEET 20A

MATCHLINE (SEE SHEET 20)

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kalford

8/17/99

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Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 42 OF 79

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

TEMPORARY SURFACE WATER IMPACTS

SITE 13

SITE 14

SITE 15

SITE 16

POND

STD. 2' BASE DITCH w/CL B RIP RAP SEE DETAIL I EST. 25 TONS EST. 90 SY GF

CL B RIP RAP EST. 5 TONS EST. 16 SY GF

STD. 5' BASE DITCH w/CL I RIP RAP SEE DETAIL J EST. 45 TONS EST. 102 SY GF

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

SP. LAT. 2' BASE DITCH SEE DETAIL A

TOE PROTECTION SEE DETAIL G

DUCKBILL VALVE

LAT. 2' BASE DITCH SEE DETAIL AH

MEDIAN V DITCH SEE DETAIL C

24" WELDED STEEL

18" WELDED STEEL

18" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

168 FREEMAN ADVERTISING CO

169 FREEMAN INVESTMENTS

170 FREEMAN ADVERTISING COMPANY

15+00 20+00 25+00 325+00 330+00 335+00

EXIST.R/W

48" WW FENCE

6' CONC. FLUME

FLOWABLE FILL

REMOVE HW

REMOVE DI

REMOVE CB

REMOVE JB

LOCATE & PLUG

LOCATE & FLOWABLE FILL

PLUG

JB W/MH

TB 2GI

2GI

2GI-D

15" PP

15" RCP-III

18" RCP-III

APPROX. LOCATION OF EXISTING PIPES SHOWN ON CITY OF LUMBERTON SURVEY. LOCATE, PLUG AND FLOWABLE FILL

SEE FIGURE 1 SURVEY DOCUMENT

COULDN'T LOCATE

COULDN'T LOCATE PIPE.

SP. CUT 4' BASE DITCH SEE DETAIL AK

SP. CUT 'V' DITCH SEE DETAIL F

CL B RIP RAP EST. 2 TONS EST. 7 SY GF

CONC MEDIAN BARRIER WALL

SHOULDER BERM GUTTER

SEWER LIFT STATION 22" CHL 35BW

CELL TOWER

ISMTL BUS

A/G PROPANE TANKS

MATCHLINE -L- STA. 324+00.00 (SEE SHEET 20)

MATCHLINE -L- STA. 335+00.00 (SEE SHEET 22)

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.47
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95 / FOR -SRI3- PROFILE SEE SHT.96

$DATE$ $TIME$
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Matt Harvey

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road. Suite 110
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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 43 OF 79

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

MATCHLINE -L- STA. 324+00.00 (SEE SHEET 20)

MATCHLINE -L- STA. 335+00.00 (SEE SHEET 22)

SITE 13

SITE 14

SITE 15

SITE 16

TEMPORARY SURFACE WATER IMPACTS

POND

STD. 2' BASE DITCH w/CL B RIP RAP SEE DETAIL I EST. 25 TONS EST. 90 SY GF

STD. 5' BASE DITCH w/CL I RIP RAP SEE DETAIL J EST. 45 TONS EST. 102 SY GF

EST. 5 TONS EST. 16 SY GF

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

SP. LAT. 2' BASE DITCH SEE DETAIL A

TOE PROTECTION SEE DETAIL G

DUCKBILL VALVE

LAT. 2' BASE DITCH SEE DETAIL AH

MEDIAN V DITCH SEE DETAIL C

168 FREEMAN ADVERTISING CO

169 FREEMAN INVESTMENTS

170 FREEMAN ADVERTISING COMPANY

EXIST. R/W

15+00

20+00

25+00

325+00

330+00

335+00

24" WELDED STEEL

18" WELDED STEEL

2GI-D

2GI

15" RCP-III

18" RCP-III

TB 2GI

15" PP

48" WW FENCE

FLOWABLE FILL

REMOVE DI

REMOVE HW

REMOVE CB

REMOVE JB

LOCATE & PLUG

LOCATE & FLOWABLE FILL

LOCATE & REMOVE

PLUG

JB w/MH

18" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

APPROX LOCATION OF EXISTING PIPES SHOWN ON CITY OF LUMBERTON SURVEY LOCATE, PLUG AND FLOWABLE FILL

SP. CUT 4' BASE DITCH SEE DETAIL AK

SP. CUT 'V' DITCH SEE DETAIL F

CL B RIP RAP EST. 7 TONS EST. 7 SY GF

PIPE UNDER RIP RAP

ISMTL BUS

CONC. MEDIAN BARRIER WALL

SHOULDER BERM DITCH

CELL TOWER

48" CHL GATE

PROPANE TANKS

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.		FOR -L- PROFILE SEE SHT.47
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95	FOR -SRI3- PROFILE SEE SHT.96

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MHarvey

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 44 OF 79

E E WETLAND EXCAVATION
F F FILL IN WETLAND
S S SURFACE WATER IMPACTS
TS TS TEMPORARY SURFACE WATER IMPACTS
MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

MATCHLINE –L– STA. 335+00.00
(SEE SHEET 21)

MATCHLINE –L– STA. 347+00.00
(SEE SHEET 23)

SITE 17

SITE 18

POND

POND

171 THE CITY OF LUMBERTON

170 FREEMAN ADVERTISING COMPANY

172 N.C. STATE HIGHWAY AND PUBLIC WORKS COMMISSION

169 FREEMAN INVESTMENTS

174 STATE HIGHWAY AND PUBLIC WORKS COMMISSION

175 CITY OF LUMBERTON

BM=15

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

CL I RIP RAP EST. 48 TONS EST. 89 SY GF

CL I RIP RAP EST. 20 TONS EST. 39 SY GF

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

LAT. 2' BASE DITCH SEE DETAIL AH

LAT. 5' BASE DITCH SEE DETAIL AO

LAT. 7' BASE DITCH SEE DETAIL AL

SP. CUT 'V' DITCH SEE DETAIL F

3' BASE CLEANOUT SEE DETAIL AF

DUCKBILL

TOP PROTECTION SEE DETAIL AG

Q10=1.2 cfs
V10=1.4 fps

2GI 18" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

2GI-D

FS

MEDIAN V DITCH SEE DETAIL C

FLOWABLE FILL

18" WELDED STEEL

18" RCP-III

15" RCP-IV

24" RCP-III

24" RCP-IV

TB 2GI

JB w/MH

SP DET. TB 18 w/MH (DROP STRUCTURE)

CONC MEDIAN BARRIER WALL

I95 SBL VARIABLE WIDTH BST

I95 NBL VARIABLE WIDTH BST

SR 1591 CRYSTAL RD 19' BST

SR 1587 HACKETT RD 20' BST

64' BST

48" WW & ISBW

335+00 340+00 345+00 25+00 30+00 35+00

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.48
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95 / FOR -SRI3- PROFILE SEE SHT.96

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MHarvey

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 45 OF 79

WETLAND EXCAVATION
FILL IN WETLAND
SURFACE WATER IMPACTS
TEMPORARY SURFACE WATER IMPACTS
MECHANIZED CLEARING (GRUBBING)

GRAPHIC SCALE 100' 0' 100'

NAD 83

SITE 17

SITE 18

MATCHLINE –L– STA. 335+00.00
(SEE SHEET 21)

MATCHLINE –L– STA. 347+00.00
(SEE SHEET 23)

POND
FREEMAN ADVERTISING COMPANY
THE CITY OF LUMBERTON
NORTH STATE HIGHWAY AND PUBLIC WORKS COMMISSION
FREEMAN INVESTMENTS
CITY OF LUMBERTON
SR 1591 CRYSTAL RD
SR 1587 HACKETT
I95 SBL VARIABLE WIDTH BST
I95 NBL VARIABLE WIDTH BST
CONC MEDIAN BARRIER WALL
BM• 15

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.48
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95 / FOR -SRI3- PROFILE SEE SHT.96

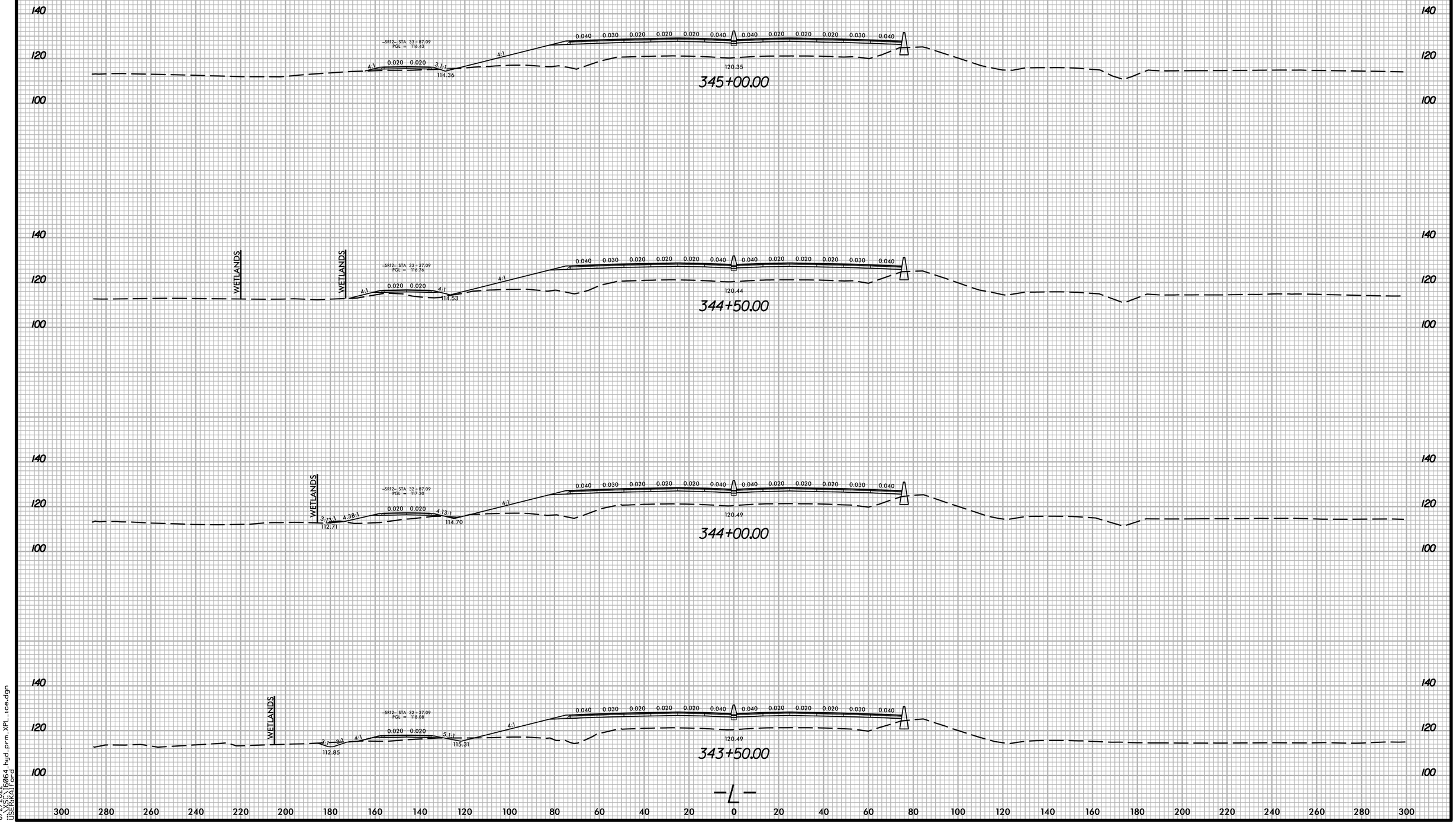
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Matt Harvey

6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-132

SITE 18

PERMIT DRAWING
SHEET 46 OF 79



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8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 47 OF 79

100' 0' 100'
GRAPHIC SCALE

F F FILL IN WETLAND
C * * S MECHANIZED CLEARING (GRUBBING)
E E WETLAND EXCAVATION
HC HC HAND CLEARING (NON-GRUBBING)
S S SURFACE WATER IMPACTS
TS TS TEMPORARY SURFACE WATER IMPACTS
T T TEMPORARY FILL IN WETLAND

MATCHLINE -L- STA. 347+00.00 (SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 24)

SITE 19

SITE 19

SITE 19

SITE 19

Lumber River

Saddletree Swamp

173 THE CITY OF LUMBERTON
176 THE CITY OF LUMBERTON
172 STATE HIGHWAY AND PUBLIC WORKS COMMISSION
178 THE LUMBER RIVER CONSERVANCY
177 THE LUMBER RIVER CONSERVANCY
179 JAMES N. BRITT III
181 THE LUMBER RIVER CONSERVANCY
182 THE LUMBER RIVER CONSERVANCY
183 JAMES N. BRITT III
175 CITY OF LUMBERTON

CL I RIP RAP EST. 11 TONS EST. 22 SY GF
CL I RIP RAP EST. 1 TONS EST. 5 SY GF
CAT. 5' BASE DITCH SEE DETAIL AO
Q10=1.2 cfs V10=2.4 fps
CL II RIP RAP ROCK PLATING
15" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS
EST. 2 TONS EST. 7 SY GF +60.00 150.00 LT
15" CAAP W/GASKET ROD AND LUG CONNECTORS W/2 ELBOWS
TEMP WW FENCE TO BRIDGE
EXIST. R/W
WOODS
LUMBER RIVER
WALL SCOUR COUNTERMEASURE
25' WATER AND SEWER DISPOSAL EASEMENT DB 46 PG 49
48" RW & ISBA
16"
CL I HC CAP
REMOVE
PLUG
FLOWABLE FILL
BERM GUTTER
TOP=120.65' INV=117.07'
TOP=120.52' INV=117.07'
REMOVE DI
15" RCP-III
TB 2GI
350+00
355+00
360+00
15" WELDED STEEL
TOP=121.82' INV=119.32'
TOP=121.67' INV=118.06'
TOP=119.14' INV=99.14'
23' BST
15' BST
8' BST
5' BST
195 SBL VARIABLE WIDTH BST
195 NBL VARIABLE WIDTH 24' BST
MTL
CONC MEDIAN BARRIER WALL
REMOVE CONCRETE DITCH
72" CONC
STRUCTURE EXCAVATION
BRIDGE #147
CONC
BRIDGE SEAT=119.50'
BRIDGE SEAT=119.51'
18" WELDED STEEL
24" WELDED STEEL
TB 2GI
24" PP
THE RIVER WALK 8' BST
EXIST. R/W
PUE
SP. DET. TB JB w/MH (DROP STRUCTURE)
TERMINUS UNKNOWN
CL I RIP RAP EST. 48 TONS EST. 89 SY GF
66" CMP REMOVE
HW
WLB
9' GR
JS HORNET

NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.48

SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -Y4RPB- PROFILE SEE SHT.61

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8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 48 OF 79

100' 0' 100'
GRAPHIC SCALE

F F FILL IN WETLAND
* * MECHANIZED CLEARING (GRUBBING)
E E WETLAND EXCAVATION
HC HC HAND CLEARING (NON-GRUBBING)
S S SURFACE WATER IMPACTS
TS TS TEMPORARY SURFACE WATER IMPACTS
T T TEMPORARY FILL IN WETLAND

MATCHLINE -L- STA. 347+00.00
(SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00
(SEE SHEET 24)

SITE 19

SITE 19

SITE 19

SITE 19

Lumber River

Saddletree Swamp

THE CITY OF LUMBERTON

STATE HIGHWAY AND PUBLIC WORKS COMMISSION

THE LUMBER RIVER CONSERVANCY

JAMES N BRITT III

CL I RIP RAP EST. 11 TONS EST. 22 SY GF

CL I RIP RAP EST. 4 TONS EST. 5 SY GF

CL II RIP RAP ROCK PLATING

Q10=1.2 cfs V10=1.4 fps

LAT. 5' BASE DITCH SEE DETAIL AD

15" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

EST. 2 TONS EST. 7 SY GF L 60.00 150.00 LT

TIE PROP WW FENCE TO BRIDGE

EXIST. R/W

PLUG FLOWABLE FILL REMOVE DI

15" RCP-III

15" WELDED STEEL

REMOVE CONCRETE DITCH

TB 2GI

STRUCTURE EXCAVATION

WALL SCOUR COUNTERMEASURE

18" WELDED STEEL

SP. DET. TB JB WMH (DROP STRUCTURE)

CL I RIP RAP EST. 48 TONS EST. 89 SY GF

6' CMP REMOVE

66"

PUE

NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.48

SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -Y4RPB- PROFILE SEE SHT.61

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Kevin.Alford

5/28/99

BM#15 ELEVATION = 117.97'
-L- STATION 341+62.2, 324.5' RIGHT

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	48
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 49 OF 79

-L-

PI = 333+20.00
EL = 131.16'
VC = 560'
K = 220
DS = 75 MPH

PI = 343+70.00
EL = 128.01'
VC = 280'
K = 234
DS = 80 MPH

PROP. GRADE

(-)0.3000%

(-)0.3000%

(+)0.8986%

END MED."V" DITCH
BEGIN LAT.5' BASE DITCH
STA.346+50.00 LT
ELEV.= 113.25

(-) 0.4400%

EXIST. GROUND

24"WS EQUILIZER PIPE

END MED."V" DITCH
STA.336+00.00 LT
ELEV.= 117.52

BEGIN MED."V" DITCH
STA.339+50.00 LT
ELEV.= 115.93

(-) 0.3175%

DITCH PI
STA.340+13.00 LT
ELEV.= 115.73

(+) 0.4599%

DITCH PI
STA.341+50.00 LT
ELEV.= 116.36

(-) 0.3000%

DITCH PI
STA.343+00.00 LT
ELEV.= 115.91

(-) 1.2100%

DITCH PI
STA.344+00.00 LT
ELEV.= 114.70

(-) 0.3415%

(-) 1.6667%

DITCH PI
STA.346+05.00 LT
ELEV.= 114.00

(-) 1.6667%

FOR -L- PLAN SEE SHT.22

160 150 140 130 120 110 100

335 336 337 338 339 340 341 342 343 344 345 346 347

-L-

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 15,200	CFS
DESIGN FREQUENCY	= 100	YRS
DESIGN HW ELEVATION	= 124.8	FT
BASE DISCHARGE	= 15,200	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 124.8	FT
OVERTOPPING DISCHARGE	= n/a	CFS
OVERTOPPING FREQUENCY	= n/a	YRS
OVERTOPPING ELEVATION	= 131.20	FT

SITE 19

PI = 356+60.00
EL = 139.60'
VC = 840'
K = 364
DS = 75 MPH

BEGIN BRIDGE
-L- STA.353+65.00

END BRIDGE
-L- STA.358+65.00

PROP. GRADE

(+)0.8986%

(+)0.8986%

(-)1.4120%

EXIST. GROUND

(-) 1.6667%

END LAT.5' BASE DITCH
STA.347+55.00 LT
ELEV.= 111.5

UNCLASS. STRUCTURAL EXCAVATION

RIP RAP CLASS II (24" THICK TYP)

NWS - EL. 109

RIP RAP CLASS II (24" THICK TYP)

RIGHT DITCH - - - - - -

LEFT DITCH —·—·—·—

FOR -L- PLAN SEE SHT.23

160 150 140 130 120 110 100

347 348 349 350 351 352 353 354 355 356 357 358 359 360

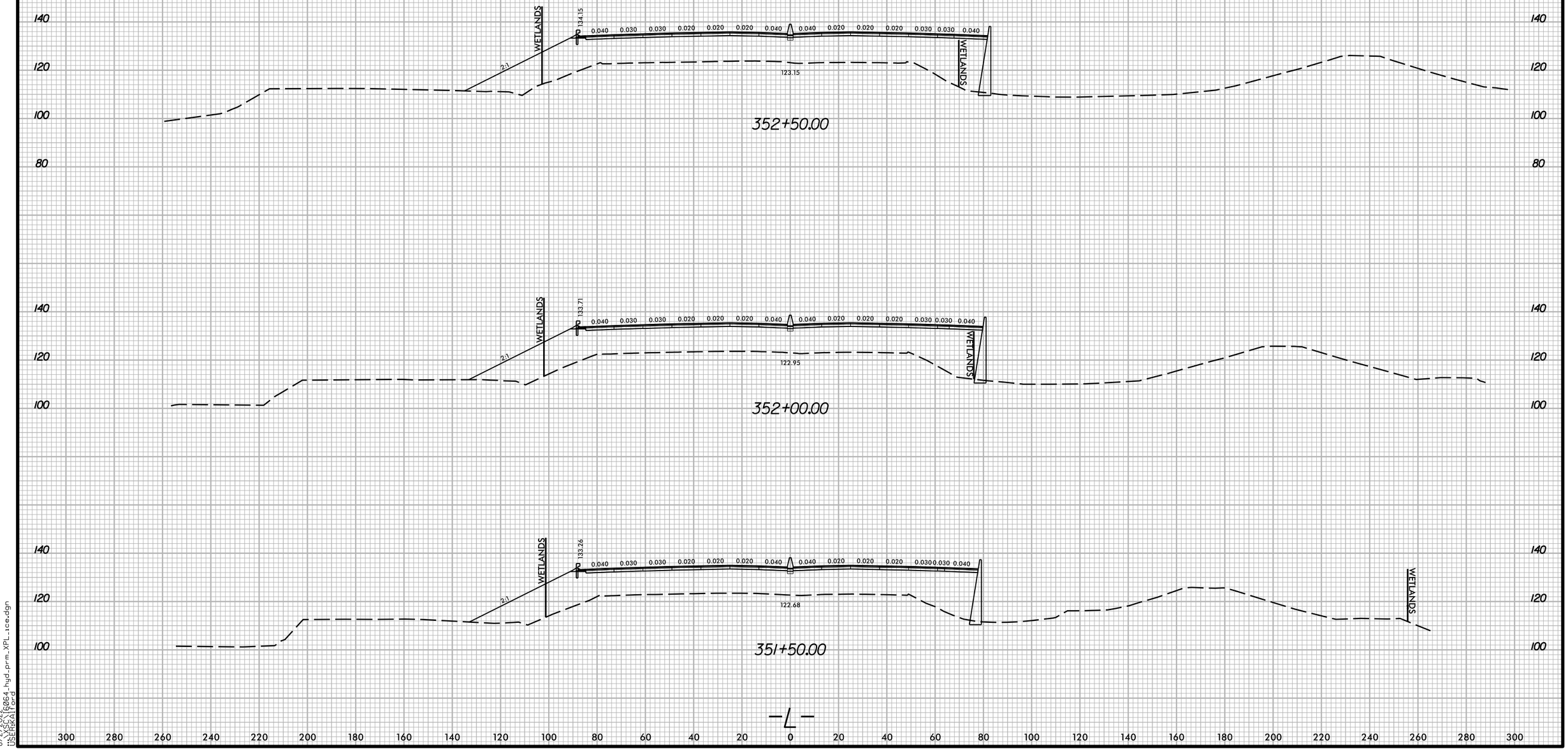
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6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-136

SITE 19

PERMIT DRAWING
SHEET 50 OF 79



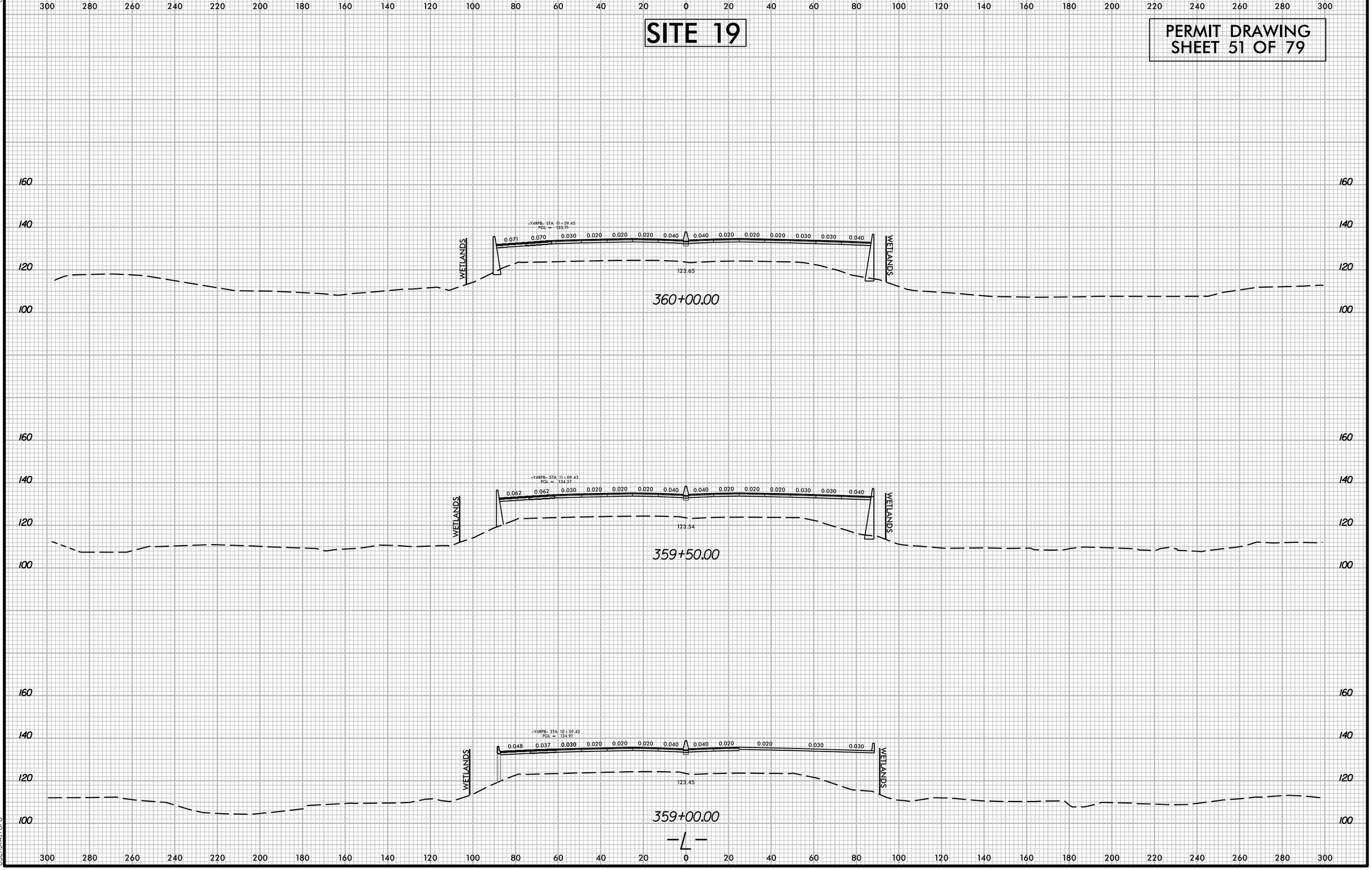
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6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-141

SITE 19

PERMIT DRAWING
SHEET 51 OF 79



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	ICE of Carolinas, PLLC 4525 Falls of Neuse Road, Suite 110 Raleigh, North Carolina 27609 Phone: 919-422-0222 License #: P-0698

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 52 OF 79

F F FILL IN WETLAND

* * MECHANIZED CLEARING (GRUBBING)

RALEIGH 53

GRAPHIC SCALE 200' 0' 200'

MATCHLINE -Y4- STA. 19+00.00 (SEE SHEET 32)

SEE SHEET 55 OF 79 FOR ENLARGED VIEW

SITE 22

SITE 20

SITE 21

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 23)

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 25)

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 33)

Lumber River

CALLOUT LEGEND	
A	-SR1- POT Sta. 10+00.00 = -Y4- POT Sta. 23+42.49
B	-RAB1- POC Sta. 22+00.00 = -RAB1- POC Sta. 23+58.14
C	-SR1- PC Sta. 10+94.22
D	-Y4RPC- PT Sta. 22+50.79
E	-Y4RPC- POT Sta. 22+67.33
F	-SR2- POT Sta. 10+00.00 = -Y4- POT Sta. 37+76.45
G	-RAB2- POC Sta. 10+00.00 = -RAB2- POT Sta. 33+58.14

		FOR -L- PROFILE SEE SHT. 49
FOR -SR1- PROFILE SEE SHT. 69	FOR -Y4- PROFILE SEE SHT. 59	FOR -Y4RPB- PROFILE SEE SHT. 61
FOR -SR2- PROFILE SEE SHTS. 71 THRU 72	FOR -RAB1- PROFILE SEE SHT. 60	FOR -Y4RPC- PROFILE SEE SHT. 62
FOR -Y4RPA- PROFILE SEE SHTS. 60 THRU 61	FOR -RAB2- PROFILE SEE SHT. 60	FOR -Y4RPD- PROFILE SEE SHT. 62

GRAPHIC SCALE
50 25 0 50 100
PLANS

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 53 OF 79

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

GRAPHIC SCALE 200' 0' 200'

SITE 20

SITE 21

SITE 22

MATCHLINE -Y4- STA. 19+00.00 (SEE SHEET 32)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 23)

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 39)

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 25)

SEE SHEET 25 OF 79 FOR ENLARGED VIEW

SEE SHEET 24 OF 79 FOR ENLARGED VIEW

Lumber River

CALLOUT LEGEND
Ⓐ -SR1- POT Sta. 10+70.00 = -Y4- POT Sta. 23+42.49
Ⓑ -RAB1- POC Sta. 20+00.00 = -RAB1- POT Sta. 23+58.14
Ⓒ -SR1- PC Sta. 10+94.22
Ⓓ -Y4RPC- PT Sta. 22+50.79
Ⓔ -Y4RPC- POT Sta. 22+67.33
Ⓕ -SR2- POT Sta. 10+50.00 = -Y4- POT Sta. 31+76.42
Ⓖ -RAB2- POC Sta. 10+00.00 = -RAB2- POT Sta. 33+58.14

FOR -SR1- PROFILE SEE SHT.69	FOR -Y4- PROFILE SEE SHT.59	FOR -L- PROFILE SEE SHT.49
		FOR -Y4RPB- PROFILE SEE SHT.61
FOR -SR2- PROFILE SEE SHTS.71 THRU 72	FOR -RAB1- PROFILE SEE SHT.60	FOR -Y4RPC- PROFILE SEE SHT.62
FOR -Y4RPA- PROFILE SEE SHTS.60 THRU 61	FOR -RAB2- PROFILE SEE SHT.60	FOR -Y4RPD- PROFILE SEE SHT.62

GRAPHIC SCALE
50 25 0 50 100
PLANS

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4525 Falls of Neuse Road, Suite 110
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Phone: 833-423-2323
License #: P-0898

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SITE 21

SITE 20

SITE 20 & SITE 21
ENLARGEMENT

PERMIT DRAWING
SHEET 54 OF 79

F F FILL IN WETLAND

MECHANIZED CLEARING (GRUBBING)

GRAPHIC SCALE
0' 40' 80'

NAD 83

SP. CUT 2' BASE DITCH
SEE DETAIL T

SP. CUT 2' BASE DITCH
W/CL B RIP-RAP
SEE DETAIL

REMOVE CONCRETE DITCH

54" RCP-III

54" RCP-IV

15" RCP-IV

TB 2GI

2GI-A

FS

365+00

15+00

REMOVE

PLUG

FLOWABLE FILL

15" WELDED STEEL

LOCATE & REMOVE
TRENCHLESS INSTALLATION
48" WELDED STEEL

PLUG & FILL

SP DET. TB 2GI-A

30" PP

24" PP

SP. DET. TB 2GI-A

SE DITCH RAP

Q10=70.4 cfs
V10=1.9 fps

I-95 SBL VARIABLE WIDTH BST

I-95 NBL VARIABLE WIDTH BST

TERMINUS UNKNOWN

TOE PROTECTION

SCOUR PREASURE

48" WW & ISBW

EIP TO RW

UNDER GROWTH

GRAVEL

MTL

WLB

JS

PDE

DUE

RW

CA

NAD 83

Q10=22.2 cfs
V10=1.9 fps

STD. 3' BASE DITCH
W/CL B RIP RAP
SEE DETAIL K

TOE PROTECTION
SEE DETAIL G

DUE

REMOVE

30" RCP-III

8" RCP

RETAIN

REMOVE DI

REMOVE CB

LOCATE & REMOVE JB

RETAIN

RETAIN CB

24" RCP-III

EXIST. R/W

PUE

TDE

RW

218

ISBLK/BLDG (BUS)

CORPORATION

4-ISL'S 4 GAS PUMPS UM/TL CANOPY

BST

W/LT

30" C&G

54" CONC

60" CLK

INV=124.20'

TOP=131.90'
INV (SE)=125.87'
INV (NW)=125.86'

TOP=132.48'
INV (SE)=127.36'
INV (NW)=127.29'

POSSIBLE BURIED JUNCTION BOX

PUTL

INV A=129.67'
INV B=129.67'
POSSIBLY ABANDONED

12" VCP

15" RCP-III

DI

CB

-SR1- +36.01 50.00 RT

-Y4- +15 130.00

48" WW & ISBW

48" WW FENCE

18" RCP-III

REMOVE

FLOWABLE FILL

PLUG

20+00

25+00

6" CONC CURB

GRASS

EXIST. R/W

END FENCE

15" RCP-IV

2-ISL'S 2 GAS PUMPS UM/TL CANOPY

PHONE BOOTH

136 W/LT

130 W/LT

40' 0' 40'

GRAPHIC SCALE

SITE 22 ENLARGEMENT

PERMIT DRAWING SHEET 55 OF 79

F F FILL IN WETLAND

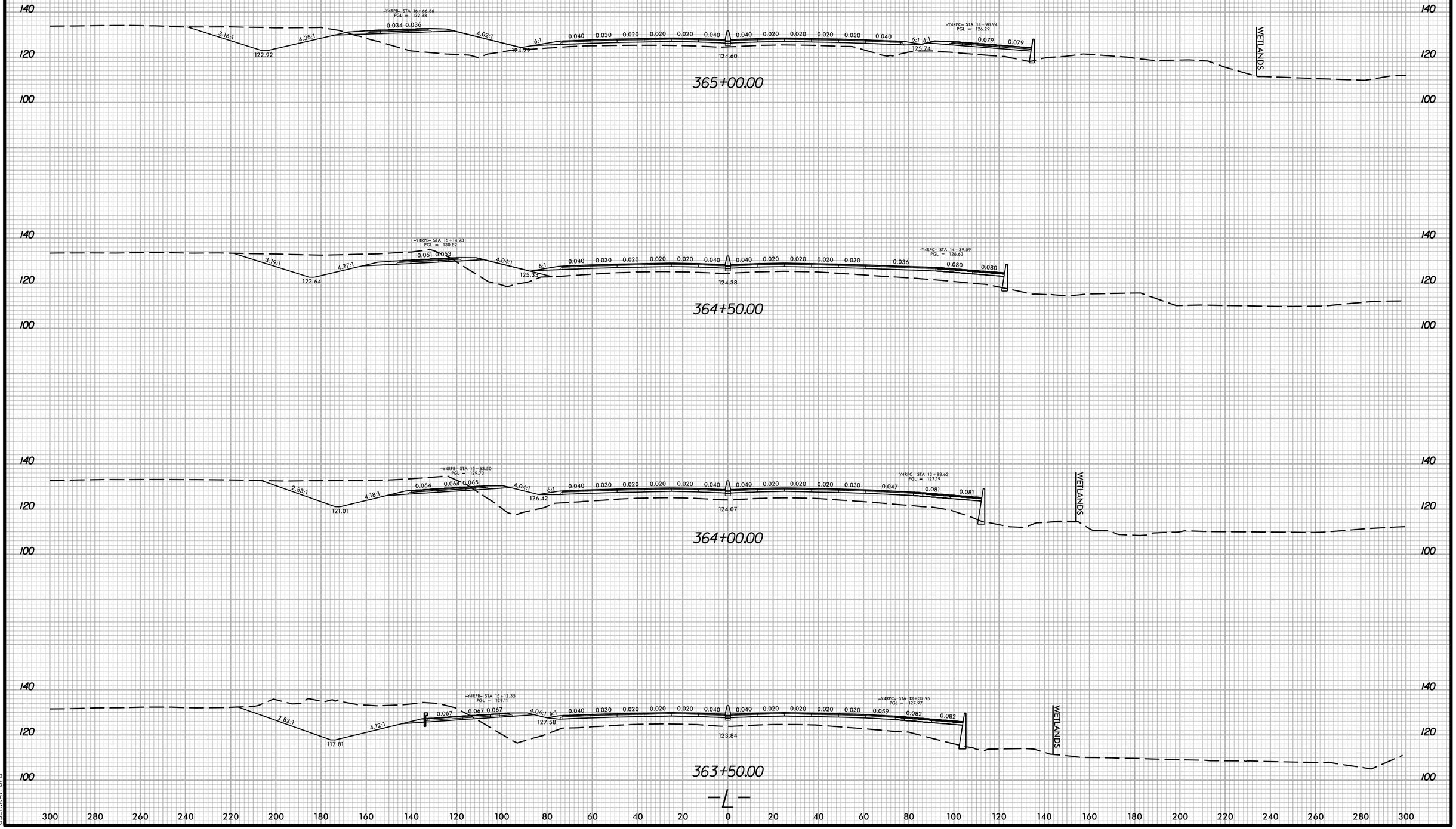
MECHANIZED CLEARING (GRUBBING)

6/23/16

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	I-6064/I-5879	X-144

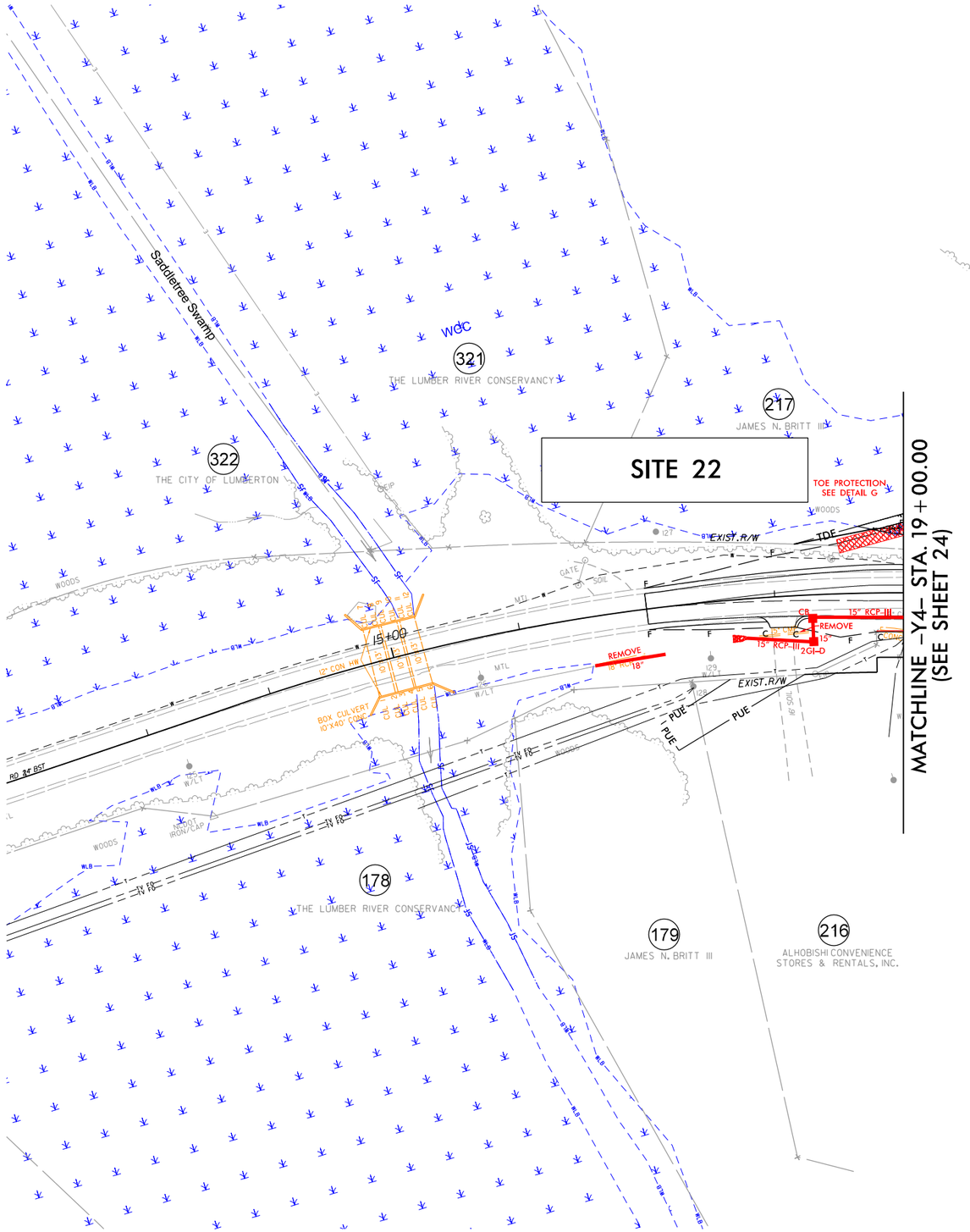
SITE 21

PERMIT DRAWING
SHEET 56 OF 79



8/2/2022
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USERKAlford

8/17/99



FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road. Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83

S S — SURFACE WATER IMPACTS
TS TS — TEMPORARY SURFACE WATER IMPACTS
F F — FILL IN WETLAND
* * — MECHANIZED CLEARING (GRUBBING)

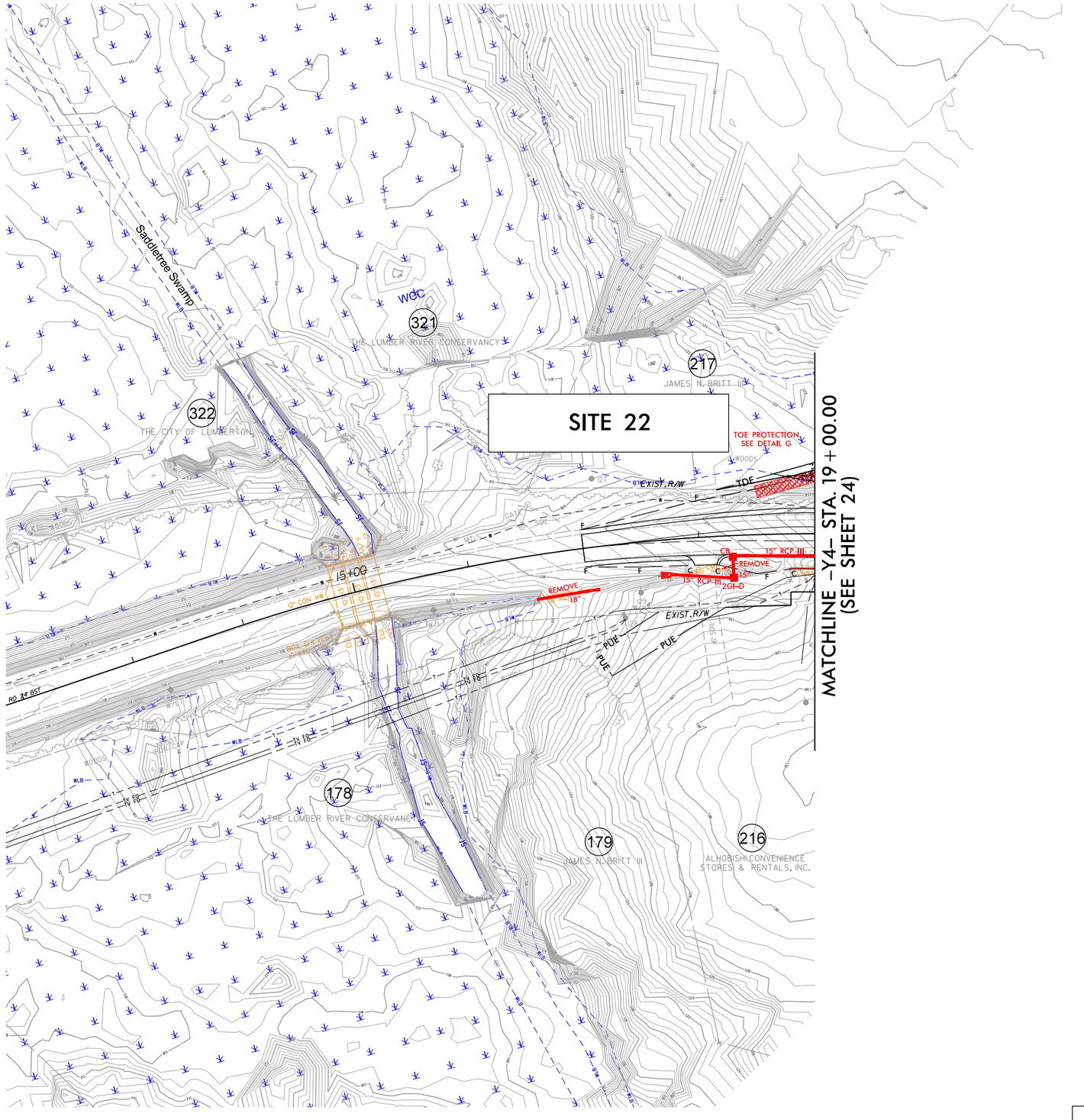
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GRAPHIC SCALE

PERMIT DRAWING SHEET 57 OF 79

R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE. | *FOR -Y4- PROFILE SEE SHT.59*

$DATE$ $TIME$
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MHarvey

8/17/99



MATCHLINE -Y4- STA. 19 + 00.00
(SEE SHEET 24)

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road. Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83

S S SURFACE WATER IMPACTS
TS TS TEMPORARY SURFACE WATER IMPACTS
F F FILL IN WETLAND
MECHANIZED CLEARING (GRUBBING)

100' 0' 100'
GRAPHIC SCALE

PERMIT DRAWING SHEET 58 OF 79

R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE. | FOR -Y4- PROFILE SEE SHT.59

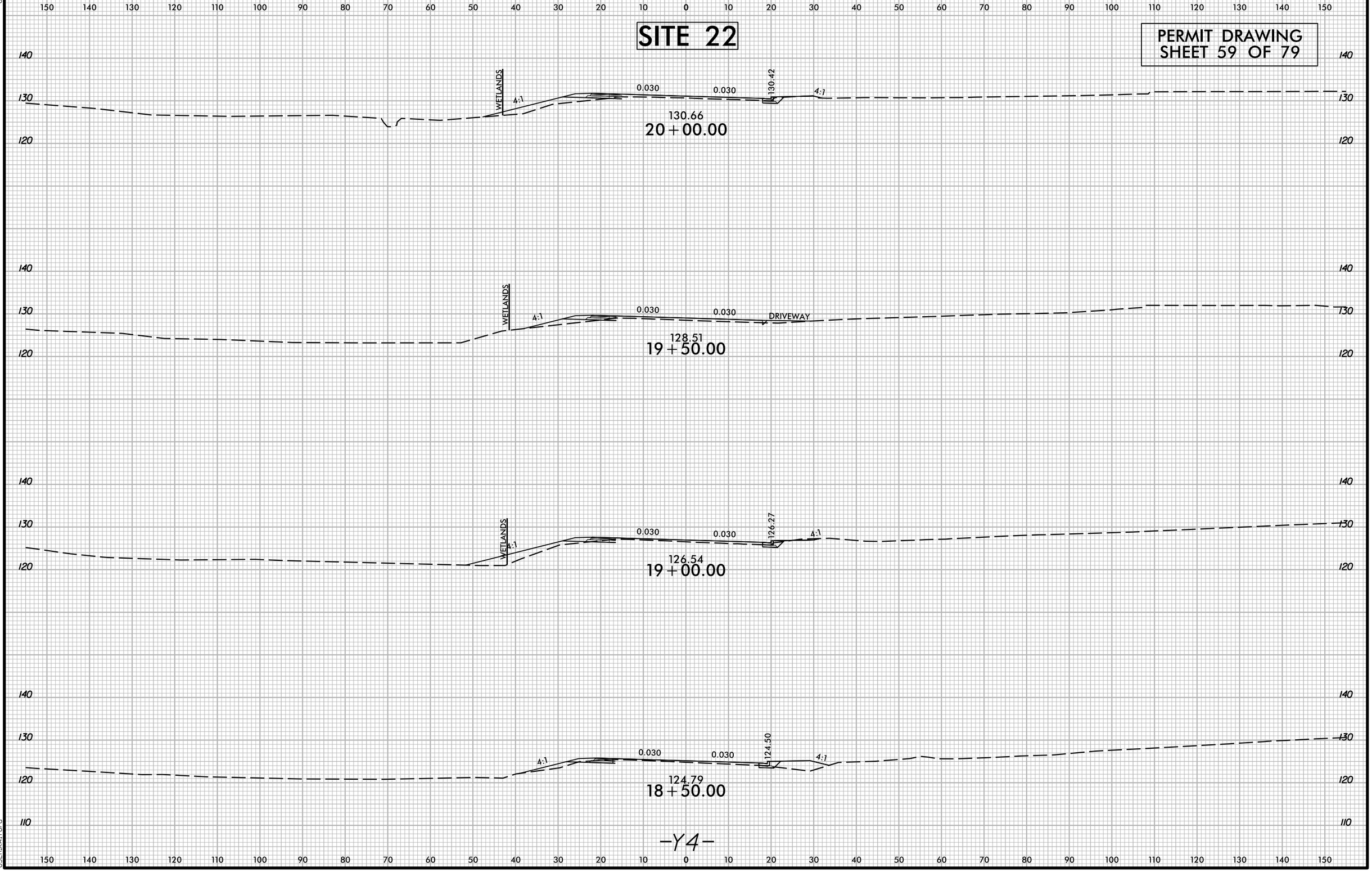
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6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-238

SITE 22

PERMIT DRAWING
SHEET 59 OF 79



-Y4-

8/2/2022
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USERKAlford

GRAPHIC SCALE 200' 0' 200'

S S SURFACE WATER IMPACTS

TS TS TEMPORARY SURFACE WATER IMPACTS

F F FILL IN WETLAND

PROPOSED SIGNAL

PERMIT DRAWING
SHEET 60 OF 79

FLATIRON UNITED

Wetherill Engineering, Inc.
1882 Jones Road • Suite 1
Marietta, Georgia 30062
Phone: 770.971.0077
License #: PE001077

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE (SEE SHEET 26A)

MATCHLINE -SR1- STA. 75+30.00 (SEE SHEET 34)

MATCHLINE -Y5- STA. 26+00.00 (SEE SHEET 34)

MATCHLINE -SR4- STA. 13+00.00 (SEE SHEET 34)

MATCHLINE -L- STA. 413+00.00 (SEE SHEET 26)

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 28)

MATCHLINE -SR2- STA. 64+00.00 (SEE SHEET 35)

MATCHLINE -SR3- STA. 17+00.00 (SEE SHEET 35)

MATCHLINE -Y5- STA. 39+00.00 (SEE SHEET 35)

MATCHLINE -SR5- STA. 18+00.00 (SEE SHEET 35)

SITE 23

SEE SHEET 62 OF 79 FOR ENLARGED VIEW

FOR -L- PROFILE SEE SHTS.51 THRU 52	FOR -SR3- PROFILE SEE SHT.73	FOR -Y5- PROFILE SEE SHT.63
FOR -SR1- PROFILE SEE SHTS.70 THRU 71	FOR -SR4- PROFILE SEE SHT.74	FOR -Y5SPA- PROFILE SEE SHT.68
FOR -SR2- PROFILE SEE SHTS.72 THRU 73	FOR -Y5RPA- PROFILE SEE SHT.65	FOR -Y5SPB- PROFILE SEE SHT.68
FOR -SR5- PROFILE SEE SHTS.76 THRU 77	FOR -Y5RPC- PROFILE SEE SHT.66	FOR -Y5SPC- PROFILE SEE SHT.68
FOR -Y5RPB- PROFILE SEE SHTS.65 THRU 66	FOR -Y5RPD- PROFILE SEE SHT.67	FOR -Y5SPD- PROFILE SEE SHT.68

GRAPHIC SCALE
50 25 0 50 100
PLANS

c:\Users\kruger\Service engagements\I-6064_I-5879\Survey\Sheets\I6027x1-6064_I-5879_Plansheets-WETL.dgn

GRAPHIC SCALE 200' 0' 200'

S S SURFACE WATER IMPACTS

TS TS TEMPORARY SURFACE WATER IMPACTS

F F FILL IN WETLAND

☆ PROPOSED SIGNAL

PERMIT DRAWING
SHEET 61 OF 79

FLATIRON UNITED

Wetherill Engineering, Inc.
1882 Jones Road • Suite 100
Marietta, Georgia 30062
Phone 770.421.1660
Fax 770.421.1661

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE (SEE SHEET 26A)

MATCHLINE -SR1- STA. 75+30.00 (SEE SHEET 34)

MATCHLINE -YS- STA. 26+00.00 (SEE SHEET 34)

MATCHLINE -SR4- STA. 13+00.00 (SEE SHEET 34)

MATCHLINE -L- STA. 413+00.00 (SEE SHEET 26)

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 28)

MATCHLINE -SR2- STA. 64+00.00 (SEE SHEET 35)

MATCHLINE -SR3- STA. 17+00.00 (SEE SHEET 35)

MATCHLINE -YS- STA. 39+00.00 (SEE SHEET 35)

MATCHLINE -SR5- STA. 18+00.00 (SEE SHEET 35)

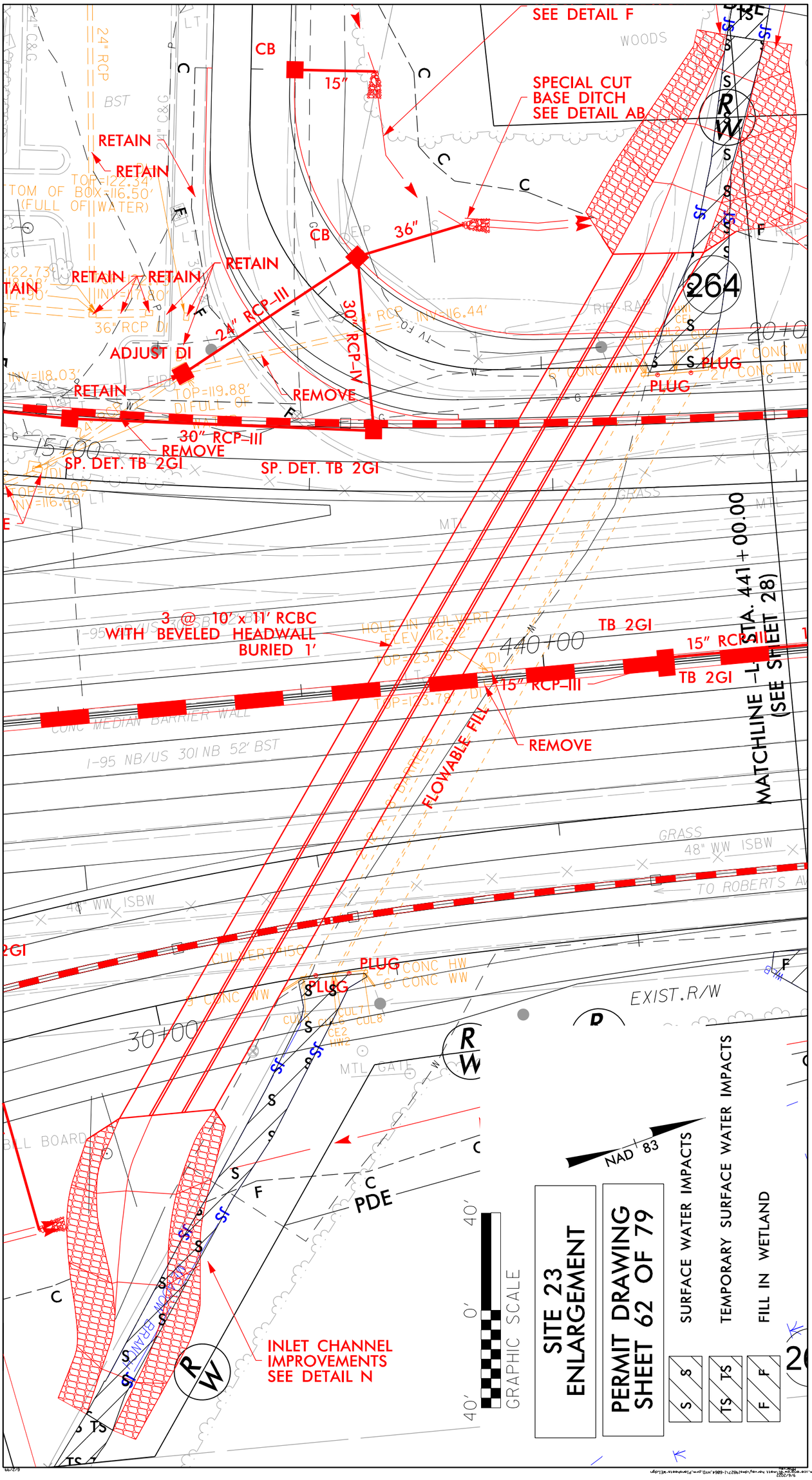
SITE 23

SEE SHEET 82 OF 79 FOR ENLARGED VIEW

FOR -L- PROFILE SEE SHTS.51 THRU 52	FOR -SR3- PROFILE SEE SHT.73	FOR -Y5- PROFILE SEE SHT.63
FOR -SR1- PROFILE SEE SHTS.70 THRU 71	FOR -SR4- PROFILE SEE SHT.74	FOR -Y5SPA- PROFILE SEE SHT.68
FOR -SR2- PROFILE SEE SHTS.72 THRU 73	FOR -Y5RPA- PROFILE SEE SHT.65	FOR -Y5SPB- PROFILE SEE SHT.68
FOR -SR5- PROFILE SEE SHTS.76 THRU 77	FOR -Y5RPC- PROFILE SEE SHT.66	FOR -Y5SPC- PROFILE SEE SHT.68
FOR -Y5RPB- PROFILE SEE SHTS.65 THRU 66	FOR -Y5RPD- PROFILE SEE SHT.67	FOR -Y5SPD- PROFILE SEE SHT.68

GRAPHIC SCALE
50 25 0 50 100
PLANS

ROUTE 41 NB
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SEE DETAIL F
SPECIAL CUT
BASE DITCH
SEE DETAIL AB
CB
15″
36″
30″ RCP-IV
24″ RCP-III
RETAIN
ADJUST DI
REMOVE
30″ RCP-III
SP. DET. TB 2GI
PLUG
264
15+00
20+00
3 @ 10′ x 11′ RCBC
WITH BEVELED HEADWALL
BURIED 1′
HOLE IN CULVERT
TB 2GI
15″ RCP-III
FLOWABLE FILL
44+00
MATCHLINE –L– STA. 441+00.00
(SEE SHEET 28)
I-95 NB/US 301 NB 52′ BST
CONC MEDIAN BARRIER WALL
GRASS
48″ WW ISBW
TO ROBERTS AV
EXIST.R/W
30+00
MTL GATE
PDE
INLET CHANNEL
IMPROVEMENTS
SEE DETAIL N
WOODS
NAD 83
GRAPHIC SCALE
40′
0′
40′
SITE 23
ENLARGEMENT
PERMIT DRAWING
SHEET 62 OF 79
SURFACE WATER IMPACTS
TEMPORARY SURFACE WATER IMPACTS
FILL IN WETLAND

5/14/99

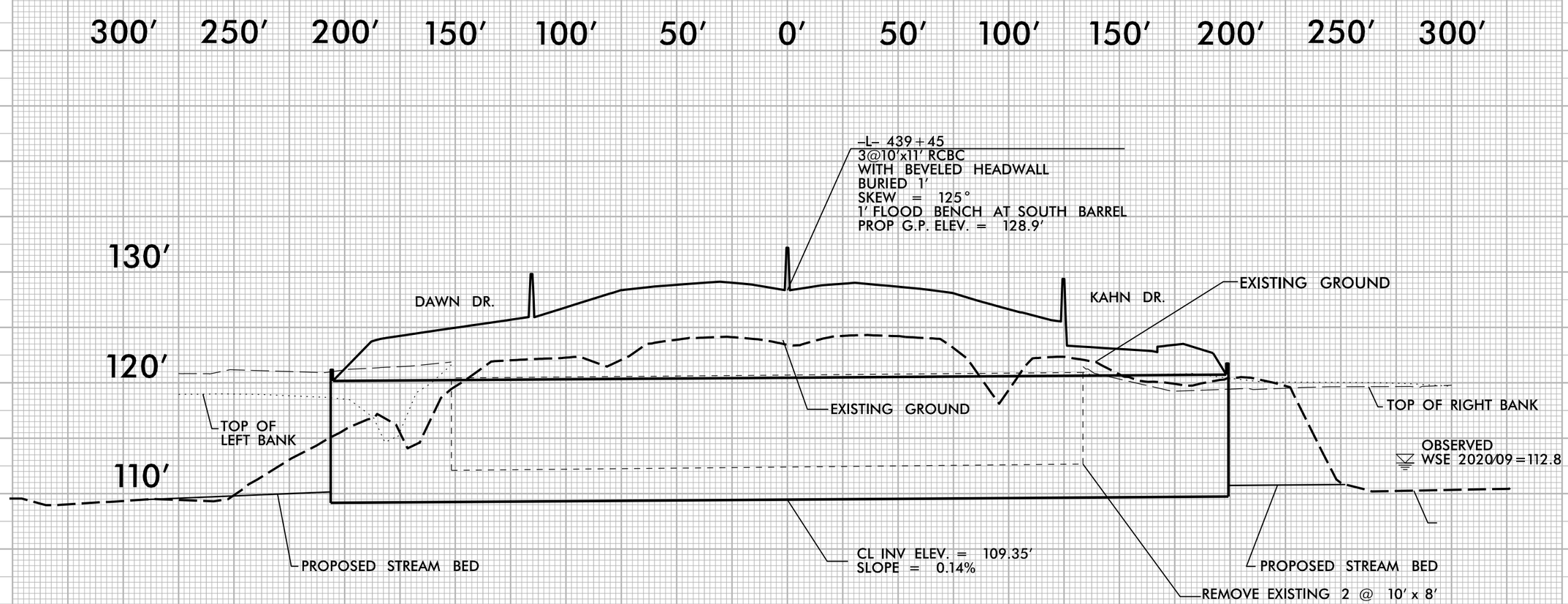
PERMIT DRAWING
SHEET 63 OF 79

PROJECT REFERENCE NO.	SHEET NO.

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SITE 23
MEADOW BRANCH



PROFILE ALONG STRUCTURE

9/1/2022
11:56:24
I:\SE\Hydr\dgn\
24_hyd_prm_meadow branch profile.dgn

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 64 OF 79

WETLAND EXCAVATION
FILL IN WETLAND
MECHANIZED CLEARING (GRUBBING)
SURFACE WATER IMPACTS
TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 24

SITE 25

SITE 24

SITE 24

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 29)

CITY OF LUMBERTON

FRENCH FAMILY PROPERTIES

CHARLES MCNEIL

SOUTHERN NATIONAL BANK

Meadow Branch

Fivemile Branch

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL Q

SPECIAL CUT DITCH SEE DETAIL F

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 60 TONS EST 130 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 90 TONS EST 200 SY GT

TOE PROTECTION SEE DETAIL W W/CL B RIPRAP EST 100 TONS EST 140 SY GT

INLET CHANNEL IMPROVEMENTS SEE DETAIL P

CHANNEL CHANGE SEE DETAIL AZ DDE = 1800 CY

CLASS I RIP RAP BANK STABILIZATION CL I RR 424 TNS GEO 720 SY

CLASS I RIP RAP BANK STABILIZATION CL I RR 322 TNS GEO 545 SY

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

3 @ 10' x 11' RCBC WITH BEVELED HEADWALL BURIED 1'

-L- I-95

SR4 DAWN DR

SR5 KAHN DR

Y5RPA, S 17° 06' 28.0" W

N 17° 06' 28.0" E

N 14° 47' 28.0" E

FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

$DATE$ $TIME$
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Kevin Alford

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 65 OF 79

E E WETLAND EXCAVATION
F F FILL IN WETLAND
* * * MECHANIZED CLEARING (GRUBBING)
S S SURFACE WATER IMPACTS
TS TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'
GRAPHIC SCALE

NAD 83

MATCHLINE -L- STA. 441+00.00
(SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00
(SEE SHEET 29)

SITE 24

SITE 25

SITE 24

SITE 24

Meadow Branch

Fivemile Branch

CITY OF LUMBERTON

FRENCH FAMILY PROPERTIES

CHARLES MCNEIL

SOUTHERN NATIONAL BANK

SR4 DAWN DR

SR5 KAHN DR

I-95

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL Q

SPECIAL CUT DITCH SEE DETAIL F

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 60 TONS EST 130 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 90 TONS EST 200 SY GT

TOE PROTECTION SEE DETAIL W W/CL B RIPRAP EST 100 TONS EST 148 SY GT

INLET CHANNEL IMPROVEMENTS SEE DETAIL P

CHANNEL CHANGE SEE DETAIL AZ DDE = - 1800 CY

CLASS I RIP RAP BANK STABILIZATION CL I RR 424 TNS GEO 720 SY

CLASS I RIP RAP BANK STABILIZATION CL I RR 322 TNS GEO 545 SY

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

3 @ 10' x 11' RCBC WITH BEVELED HEADWALL BURIED 1'

FLOWABLE FILL

REMOVE

DUE

PDE

FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

$DATE$ $TIME$
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Kevin Alford

5/14/99

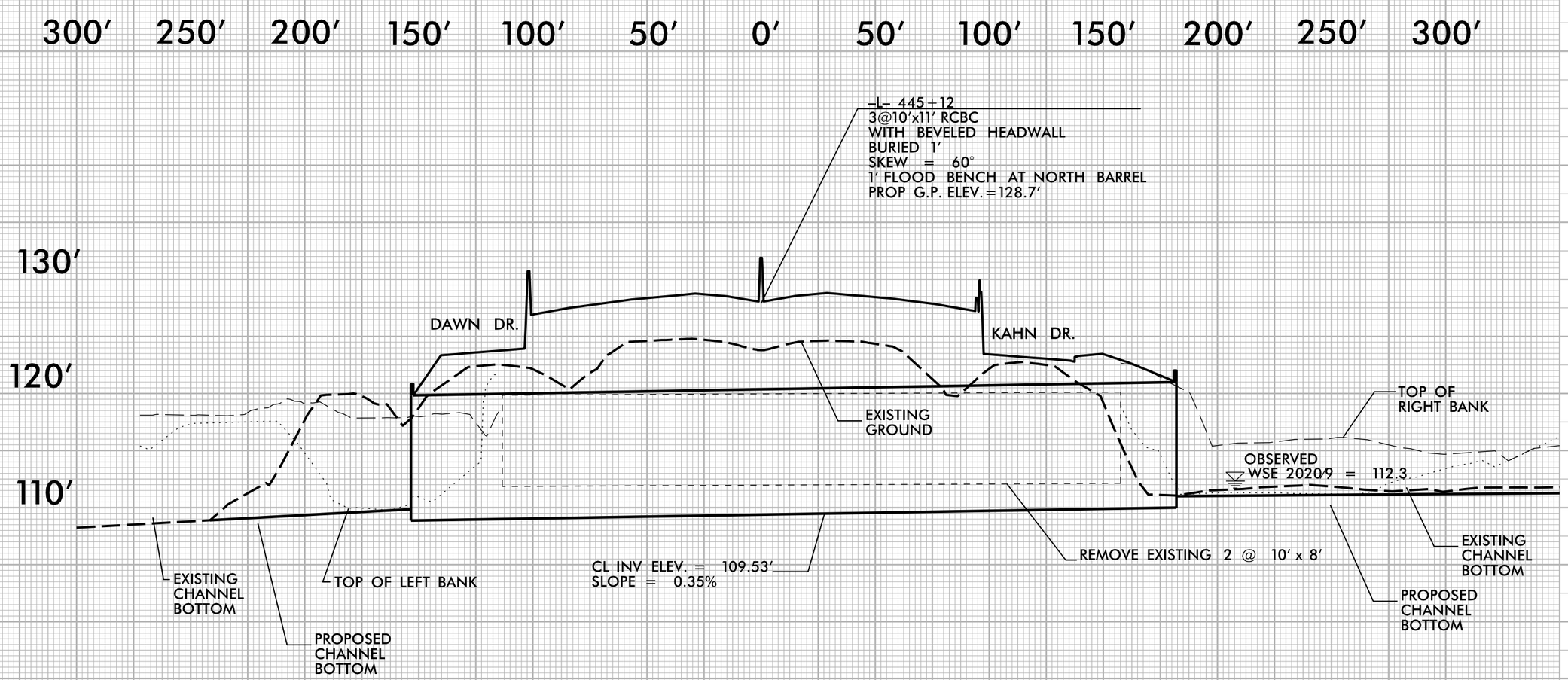
PERMIT DRAWING
SHEET 66 OF 79

PROJECT REFERENCE NO.	SHEET NO.

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SITE 24
FIVEMILE BRANCH



PROFILE ALONG STRUCTURE

9/1/2022
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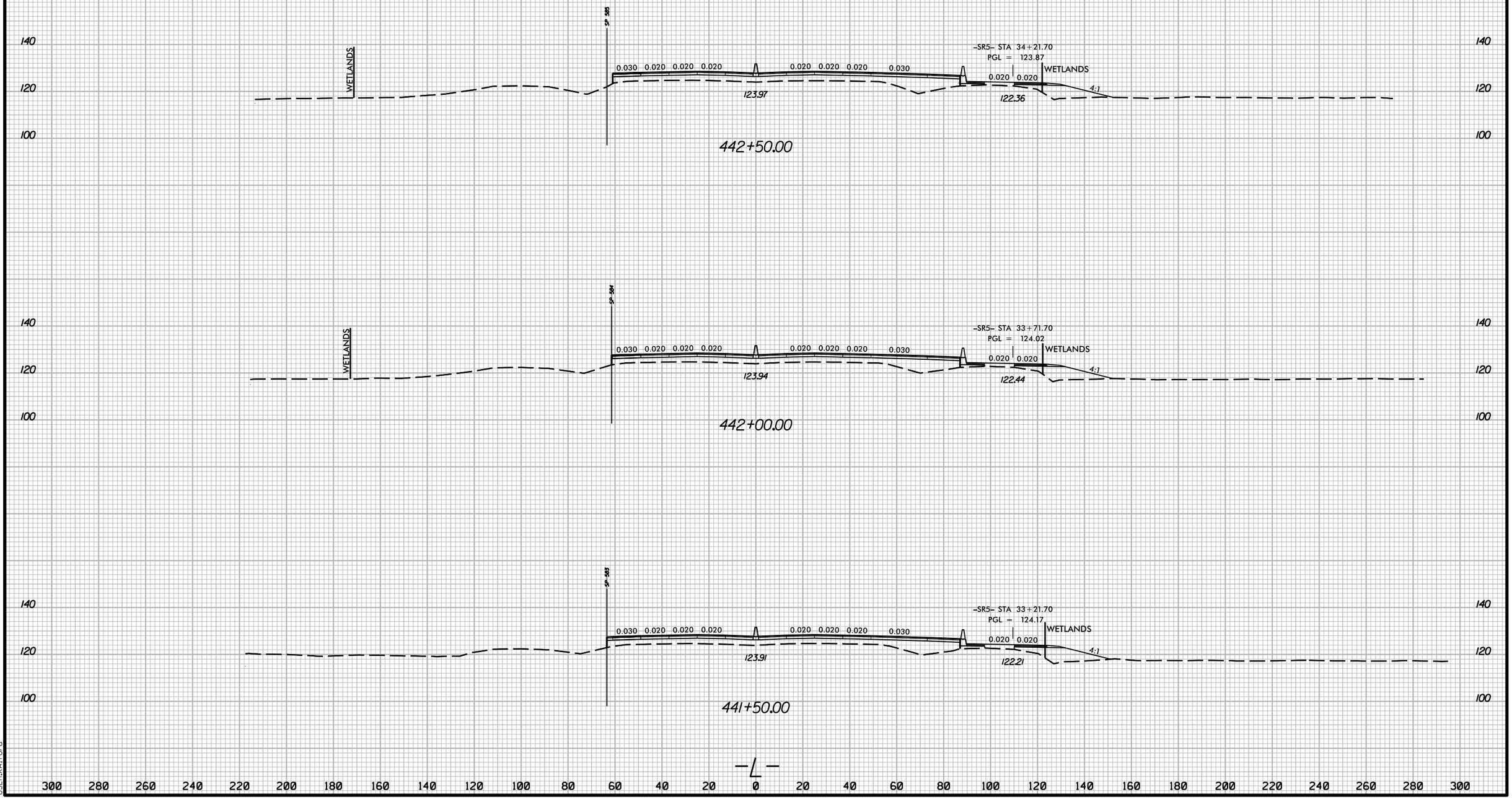
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	I-6064/I-5879	X-186

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SITE 24

PERMIT DRAWING
SHEET 67 OF 79



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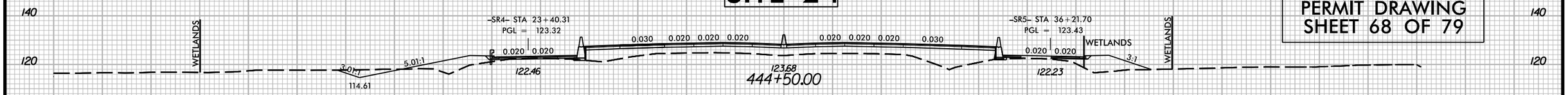
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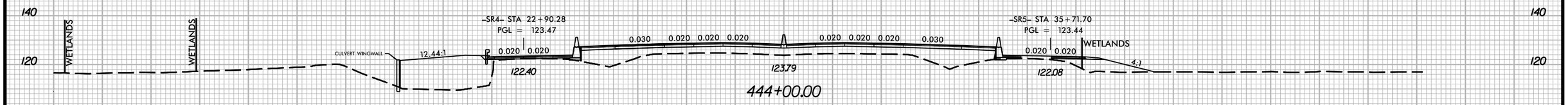
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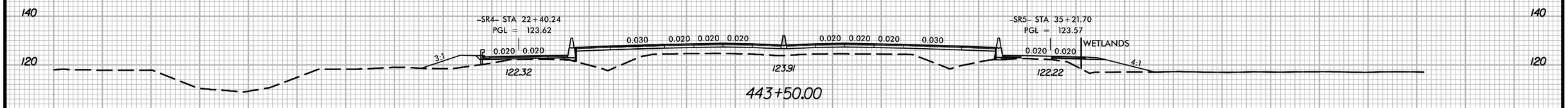
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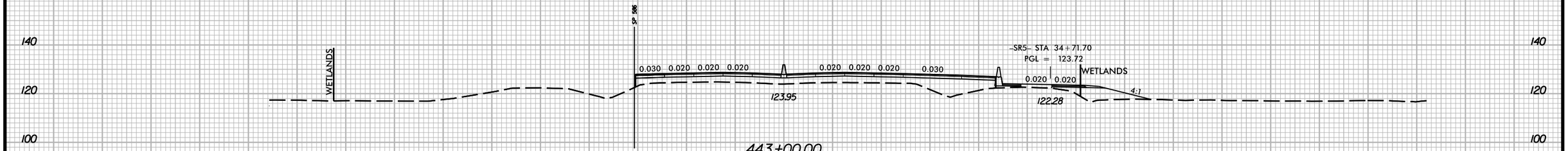
PERMIT DRAWING
SHEET 68 OF 79

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–L–

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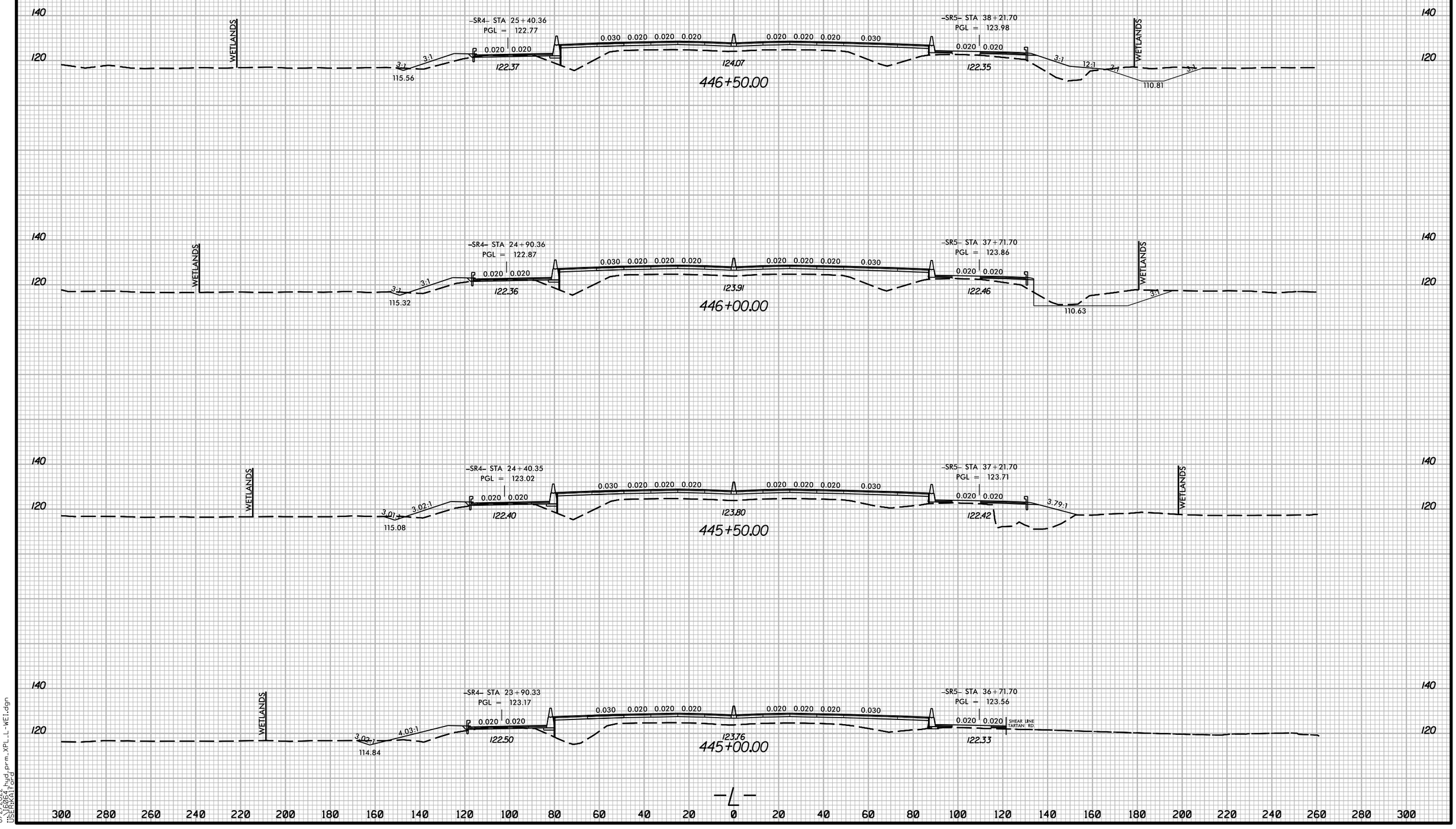
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USER:KAITord

8/23/99

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-188

SITE 24

PERMIT DRAWING
SHEET 69 OF 79



8/2/2022
I:\I6064\hyd\prm_XPL_L-WEI.dgn
USER:KAITord

8/23/99

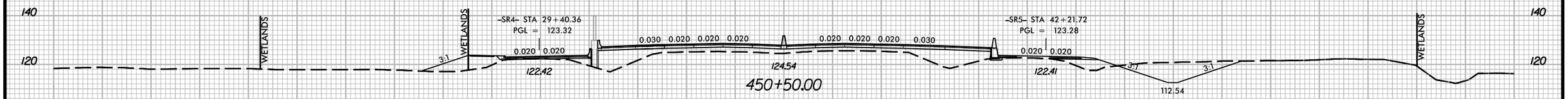
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	I-6064/I-5879	X-190

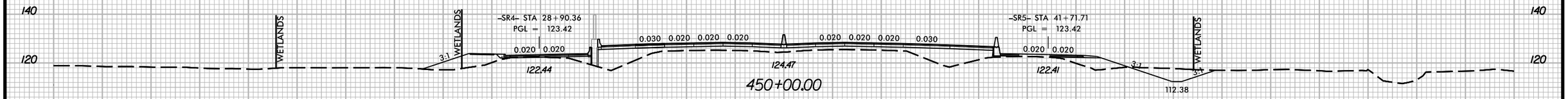
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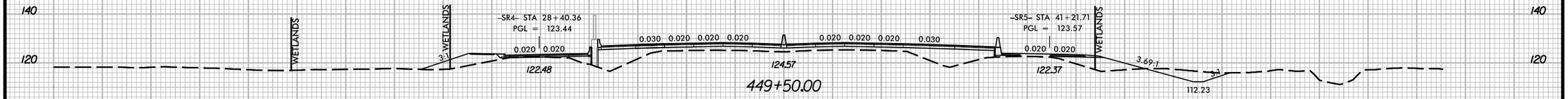
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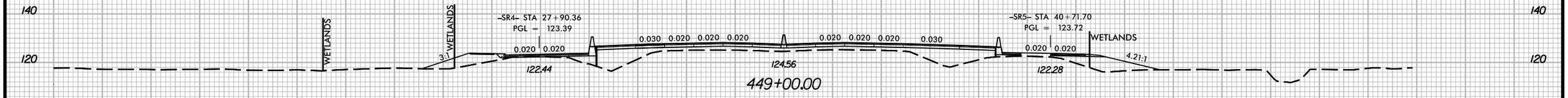
SITE 24

PERMIT DRAWING
SHEET 70 OF 79









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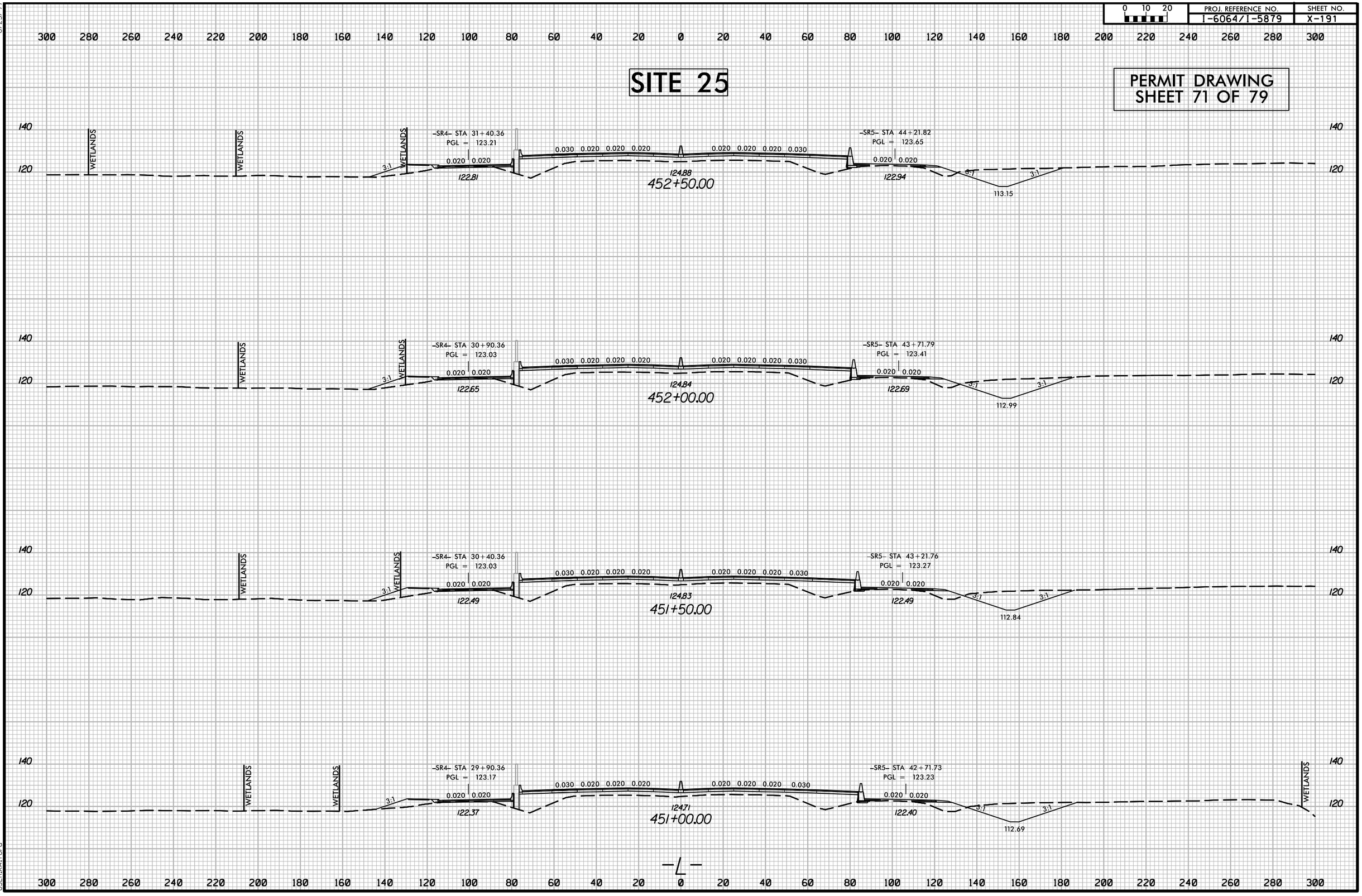
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	I-6064/I-5879	X-191

SITE 25

PERMIT DRAWING
SHEET 71 OF 79



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8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 72 OF 79

MECHANIZED CLEARING (GRUBBING)

FILL IN WETLAND

NAD 83

100' 0' 100'

GRAPHIC SCALE

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 28)

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 30)

405 FRENCH FAMILY PROPERTIES

406 FRENCH FAMILY PROPERTIES

273B CITY OF LUMBERTON

277 YUK HAN LIU

278 KENT BALDWIN

279 STEVEN BRANCH

272 SOUTHERN NATIONAL BANK

SITE 26

WOODS

EXIST.R/W

EXISTING R/W

54.00'

24' CSS

(CITY OF LUMBERTON) WELLINGTON DR 22' BST

WELLINGTON RD 48' BST

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL CUT DITCH SEE DETAIL AB

MECHANIZED CLEARING (GRUBBING)

FILL IN WETLAND

DUE PUE PDE TDE

BILL BOARD

90' SIGN & LINE OF SIGN EASEMENT PER MB 54 PG 173

30' TELECOMMUNICATIONS EASEMENT PER MB 34 PG 87

TELECOMMUNICATIONS EASEMENT PER DB 784 PG 98

TO US 301/ FAYETTEVILLE RD

I-95 SB/US 301 SB 47' BST

I-95 NB/US 301 NB 48' BST

SR 1792 KAHN DR 23' BST

DAWN DR 23' BST

29' BST DR

38' BST DR

CONC MEDIAN BARRIER WALL

GRASS

WOODEN POST

METAL POST

54" CONC

60" CONC

ISF BUS

ISBK BUS

ISMTL BUS

BST PARKING

455+00 460+00 465+00 50+00 55+00

15" RCP-IV 18" RCP-IV 15" RCP-III 18" RCP-III 24" RCP-III 30" RCP-III 36" RCP-III 42" RCP-III 48" RCP-III

CB TB 2GI 2GI-A DI JB TB JB w/MH

REMOVE REMOVE DI REMOVE JB REMOVE 8 LF FILL HOLE FILL EXISTING DITCH

RETAIN RETAIN DI

PLUG

FLOWABLE FILL

NOTE: ELIMINATE CUT DITCH FROM 53+00 TO 53+80

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

CL I RIP RAP EST. 26 TON EST. 50 SY GT

75' TAPER

FOR -L- PROFILE SEE SHTS.52 THRU 53

FOR -SR4- PROFILE SEE SHTS.74 THRU 75

FOR -SR5- PROFILE SEE SHTS.77 THRU 78

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8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 73 OF 79

MECHANIZED CLEARING (GRUBBING)

FILL IN WETLAND

NAD 83

100' 0' 100'

GRAPHIC SCALE

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 28)

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 30)

405 FRENCH FAMILY PROPERTIES

406 FRENCH FAMILY PROPERTIES

273B CITY OF LUMBERTON

277 YUK HAN LIU

272 SOUTHERN NATIONAL BANK

278 KENT BALDWIN

279 STEVEN BRANCH

SITE 26

EXIST. R/W

MECHANIZED CLEARING (GRUBBING)

FILL IN WETLAND

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL A1

SPECIAL CUT DITCH SEE DETAIL AB

NOTE: ELIMINATE CUT DITCH FROM 53+00 TO 53+80

CL I RIP RAP EST. 26 TON EST. 30 SY GT

CL I RIP RAP EST. 26 TON EST. 50 SY GT

FILL EXISTING DITCH

FOR -L- PROFILE SEE SHTS.52 THRU 53

FOR -SR4- PROFILE SEE SHTS.74 THRU 75

FOR -SR5- PROFILE SEE SHTS.77 THRU 78

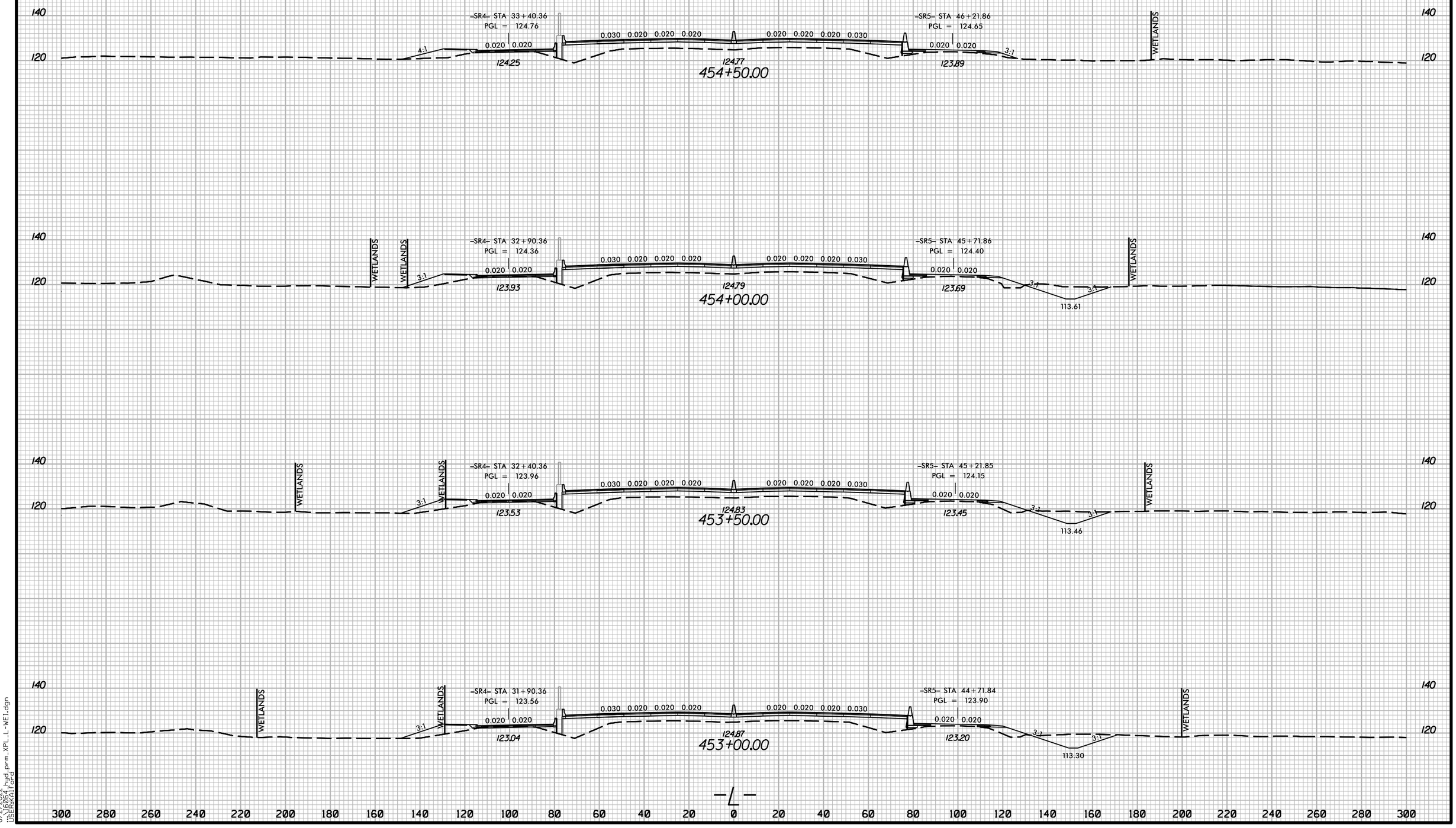
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8/23/99

0	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-192

SITE 26

PERMIT DRAWING
SHEET 74 OF 79



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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: P-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 75 OF 79

S/S SURFACE WATER IMPACTS

TS/TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'
GRAPHIC SCALE

NAD 83

MATCHLINE -L- STA. 480+00.00
(SEE SHEET 30)

SITE 27

AIMEE M. BATSON 403

JOEY HUCKS
ATHENA HUCKS 402

FRENCH FAMILY PROPERTIES 286

FRENCH FAMILY PROPERTIES 293

SOUTHEASTERN REGIONAL MEDICAL CENTER

401

PROPOSED ROW TO BE PURCHASED UNDER NCDOT PROJECT I-5987A

DITCH CLEANOUT SEE DETAIL AF
10' BASE
3:1 SIDES
0.0% GRADE
DDE=325 CY

PIPE OUTLET AND DITCH TO BE CONSTRUCTED UNDER PROJECT I-5987A.

SPECIAL CUT BASE DITCH SEE DETAIL AK

SPECIAL CUT DITCH SEE DETAIL F

500' TAPER LT & RT

212.19' TAPER RT

100' TAPER LT & RT

60+00

65+00

75+00

80+00

485+00

N 14° 47' 28.0" E

SR4 DAWN DR

SR5 KAHN DR

-L- I-95

-EL SBL-

-EL NBL-

DA=11 Ac
Q10=29 cfs
HW/D=1.13

NOTE: EXCE CB AT SAME LOCATION AS BLIND JB AND CONNECT 6" PIPE FROM DI

RETAIN DI, DI GOES TO A BLIND JB

EXIST.R/W

EXISTING R/W

CITY OF LUMBERTON

NELSON DR 40' BST

ATT EASEMENT

BILL BOARD

WOODS

ISBK BUS

ISBLK BUS

ISFBUS

BST PRAKING

SOIL/ GR

FOOT BRIDGE

GR WALK

BLK WALL

RETENTION POND

CASHMAN & HOBBES LLC

LUMBERTON INVESTORS LLC

289 REENA PATEL

290 NOBLE INVSTMENT AND DEVELOPMENT LLC

STATE NC HIGHWAY PATROL

Per Records Possible Buried Manhole, Could Not Locate

FOR -L- PROFILE SEE SHT.53	FOR -SR4- PROFILE SEE SHTS.75 THRU 76
	FOR -SR5- PROFILE SEE SHTS.78 THRU 79

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$TIME$
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FLATIRON UNITED INFRASTRUCTURE GROUP

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1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 76 OF 79

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

NAD 83

SITE 27

MATCHLINE -L- STA. 480+00.00
(SEE SHEET 30)

AIMEE M. BATSON 403
JOEY HUCKS ATHENA HUCKS 402
FRENCH FAMILY PROPERTIES 286
FRENCH FAMILY PROPERTIES 293
40
SOUTHEASTERN REGIONAL MEDICAL CENTER
289 REENA PATEL
290 NOBLE INVSTMENT AND DEVELOPMENT LLC
LUMBERTON INVESTORS, LLC
CASHMAN & HOBBES, LLC
STATE NC HIGHWAY PATROL

EXIST. R/W
0.16' R/W TO EIP
CITY OF LUMBERTON
WOODS
BILL BOARD
ISBK BUS
ISFBUS
ISBLK BUS
BST PRAKING
SOIL/ GR
CURB
RETENTION POND
BLK WALL
FOOT BRIDGE
24" C&G
GR WALK
Per Records Possible Buried Manhole, Could Not Locate

PROPOSED ROW TO BE PURCHASED UNDER NCDOT PROJECT I-5987A

DITCH CLEANOUT SEE DETAIL AF
10' BASE
3:1 SIDES
0.0% GRADE
DDE=325 CY

PIPE OUTLET AND DITCH TO BE CONSTRUCTED UNDER PROJECT I-5987A

SPECIAL CUT BASE DITCH SEE DETAIL AK

DA=11 Ac
Q10=29 cfs
HWD=1.13

500' TAPER LT & RT

212.9 TAPER RT

100' TAPER LT & RT

SPECIAL CUT DITCH SEE DETAIL F

NOTE: PLACE CB AT SAME LOCATION AS BLIND SB AND CONNECT 6" PIPE FROM DI

RETAIN DI DI GOES TO A BLIND SB

SR4 DAWN DR
N 14° 47' 28.0" E
60+00
65+00
SR5 KAHN DR
75+00
80+00
-L- I-95
465+00
-EL SBL-
-EL NBL-

15" RCP-IV
15" RCP-III
18" RCP-III
24" RCP-III
30" RCP-IV
36" RCP
42" RCP
48" RCP
15" RCP
24" RCP
TB 2GI
CB
DI
REMOVE
REMOVE CB
REMOVE DI
PLUG
FLOWABLE FILL
SP. DET. TB 2GI
5' CONC. FL

FOR -SR4- PROFILE SEE SHTS.75 THRU 76
FOR -L- PROFILE SEE SHT.53
FOR -SR5- PROFILE SEE SHTS.78 THRU 79

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-4077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	34
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 77 OF 79

NAD 83

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

SITE 28

SITE 28

MATCHLINE -SR4- STA. 13+00.00 (SEE SHEET 27)

MATCHLINE -Y5- STA. 26+00.00 (SEE SHEET 27)

MATCHLINE -SR1- STA. 75+30.00 (SEE SHEET 27)

FOR -SR1- PROFILE SEE SHT.71

FOR -Y5- PROFILE SEE SHT.63

FOR -SR4- PROFILE SEE SHT.74

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	34
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 78 OF 79

NAD 83

S/S SURFACE WATER IMPACTS

TS/TS TEMPORARY SURFACE WATER IMPACTS

100' 0' 100'

GRAPHIC SCALE

SITE 28

SITE 28

MATCHLINE –SR4– STA. 13+00.00 (SEE SHEET 27)

MATCHLINE –Y5– STA. 26+00.00 (SEE SHEET 27)

MATCHLINE –SR1– STA. 75+30.00 (SEE SHEET 27)

Y5 N ROBERTS AVE

SR4 DAWN DR

EXIST.R/W

INLET CHANNEL CL I RIP RAP EST 50 TON EST 85 SQ YD SEE DETAIL AW

CLEANOUT CULVERT 650 SY OF MATERIAL

OUTLET CHANNEL CL I RIP RAP EST 42 TON EST 70 SY GF SEE DETAIL AX

CL B RIP RAP EST 3 TON EST 10 SY GF

CL B RIP RAP EST 1 TON EST 5 SY GF

SPECIAL BACK OF CURB CUT DITCH SEE DETAIL AE

REMOVE 15" CMP

REMOVE 15" RCP-III

REMOVE 12" RCP

REMOVE 8" HDPE

18" RCP-III

15" RCP-III

15" RCP-IV

12" RCP

8" HDPE

END CA BEGIN CHL FENCE

262 BHARAT PATEL

338 ASHAPURA LODGING LLC 2S STUCO MOTEL

263 1SBLK MOTEL

260 I NEESHI CONSTRUCTION LLC

259 4SBLK MOTEL HARISH AMIN

340 CITY OF LUMBERTON

339 EUGENE LOCKLEAR

217 JAMES N. BRITT III

337 ALBERTO FLORES

258 SHAH, AMIN & ZOTA PARTNERSHIP

FOR -SR1- PROFILE SEE SHT.71

FOR -Y5- PROFILE SEE SHT.63 | FOR -SR4- PROFILE SEE SHT.74

8/17/99

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WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-Y1RPA- 22+85 Rt	Ditch				< 0.01						
2	-Y1RPD- 18+00 Lt	Pipe	< 0.01			0.04						
3	-SR06- 10+66 Rt	Bank Stabilization						< 0.01		21		
4	-L- 134+45 Rt	2@ 48" Pipe (PSH 8A)						< 0.01	0.02	30	39	
5	-L- 168+95 Rt	Ditch Cleanout (PSH 10A)							< 0.01		31	
6	-L- 212+15, 231+25 Lt	Ditch Cleanout	0.05		0.15	0.15						
7	-L- 253+65 Lt	Ditch Cleanout	0.01		< 0.01	0.04						
8	-L- 266+80 to 275+37 Lt	Roadway Fill	0.54			0.23		< 0.01				
9	-Y2RPD- 18+50 to 19+93 Rt	Roadway Fill	0.07		0.02			0.02				
10	-L- 290+55 to 302+66 Lt	Roadway Fill	0.12		< 0.01	0.15		< 0.01				
11	-SR7- 59+17 to 60+12 Rt.	Roadway Fill							< 0.01			
12	-L- 306+20 Lt	Ditch Cleanout (PSH 20A)	< 0.01		0.07	0.08						
13	-L- 323+70 to 329+00 Lt	Roadway Fill						0.12	0.05			
14	-SR12- 19+80	Roadway Fill						0.05	0.01			
15	-SR12- 20+53	Roadway Fill						0.05	< 0.01			
16	-SR12- 23+64	Roadway Fill						< 0.01	< 0.01			
17	-SR12- 28+34	Roadway Fill/Ditch Cleanout						0.04	0.04			
18	-SR12- 33+59	Roadway Fill	0.04		< 0.01	0.02						
19	-L- 347+48 to 361+20	Roadway Fill/Bridge	0.74	0.24	0.03	0.42	0.25	< 0.01	0.02	50	112	
20	-L- 361+66 to 362+99 Lt	Roadway Fill	0.04			0.01						
21	-Y4RPC- 13+98 to 15+73 Rt	Roadway Fill				0.02	< 0.01					
22	-Y4- 18+49 to 20+04 Lt	Roadway Fill	0.01			0.03						
23	-L- 440+00	Culvert						0.10	0.01	337	39	
24	-L- 440+81 to 450+15	Culvert	0.37		0.26	0.23		0.14	0.02	509	91	
25	-L- 448+66 to 454+07 Lt	Roadway Fill	0.22			0.11						
26	-L- 453+93 to 454+24 Rt	Roadway Fill				< 0.01						
27	-SR4- 65+25 Lt	Ditch Cleanout							0.07			
28	-Y5- 18+33	Bank Stabilization						< 0.01		70		
28	-Y5- 18+33	Culvert							0.08		41	
TOTALS*:			2.23	0.24	0.53	1.54	0.26	0.56	0.34	1017	353	0

*Rounded totals are sum of actual impacts

NOTES:

--Sites 8, 9, 10, 13, 14, 15, 16, 17 and 27 are surface waters verified as open water (ponds or jurisdictional ditches/tributaries).

--Site 10 Temporary Excavation in Wetlands due to Trenchless Pipe Installation = 0.07 ac

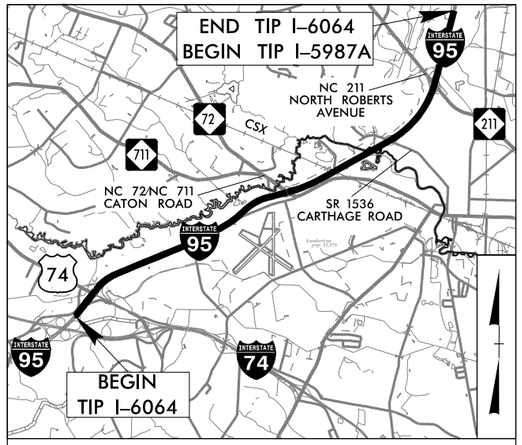
--Site 19 permanent bent impacts calculated using 3' width by the length of the bent within the JS feature.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
9/28/2022
Robeson County
I-6064/I-5879
49067.1.2, 49067.1.3 & 53079.2.1
SHEET 79 OF 79

09/08/99

TIP PROJECT: I-6064/I-5879

CONTRACT: C204596



VICINITY MAP
(Not to Scale)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6064I-5879	3	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49067.1.2, 49067.1.3, & 53079.2.1		PE
49067.2.5, 49067.2.6, & 53079.2.1		ROW
49067.2.5, & 49067.2.6		UTIL.
49067.3.1, 49067.3.2, & 49067.3.3		CONST.

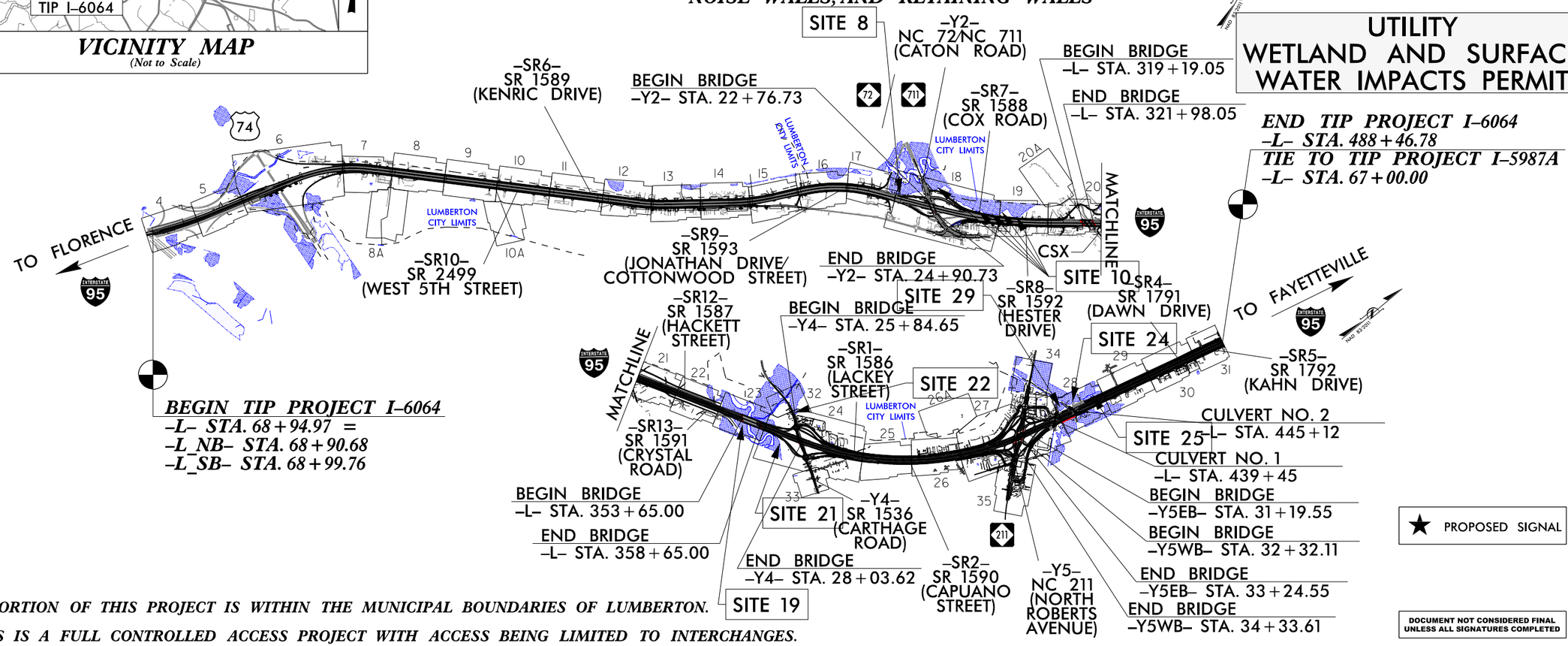
PERMIT DRAWING
SHEET 1 OF 38



LOCATION: *I-95 WIDENING AND PAVEMENT REHABILITATION FROM I-74 (EXIT 13) TO SOUTH OF US 301 (EXIT 22) AND I-95/SR 1536 INTERCHANGE IMPROVEMENTS*

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, CULVERTS, STRUCTURES PAVEMENT MARKINGS, SIGNING, SIGNALS, ITS, NOISE WALLS, AND RETAINING WALLS*

UTILITY
WETLAND AND SURFACE WATER IMPACTS PERMIT



★ PROPOSED SIGNAL

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF LUMBERTON.

THIS IS A FULL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 20 10 0 10 20

DESIGN DATA

ADT 2021 = 71,800
ADT 2041 = 107,800
K = 6.5%
D = 60 %
T = 14% *
V = 75 MPH
* TTST =11% DUAL =3%
FUNC CLASS =
INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-6064 = 7.783 MILES
LENGTH STRUCTURE TIP PROJECT I-6064 = 0.162 MILES
TOTAL LENGTH TIP PROJECT I-6064 = 7.945 MILES

Prepared In the Office of:
ICE of CAROLINAS, PLLC
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-802-0333
License #: P-0995

Prepared for:
NCDOT DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 9/21/2021

LETTING DATE: 9/21/2021

BRIAN LUSK, PE
PROJECT ENGINEER

DAN DUFFIELD, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

9/6/2022
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8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 2 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 8

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 18)

99 MACK WHITE INVESTMENTS INC

103 MACK WHITE INVESTMENTS INC

104 MACK WHITE INVESTMENTS INC

105 CB OF EDENTON LLC

106 JHS ROBESON PROPERTIES LLC

107 OUTDOOR REALTY LLC

108 JEANNETTE MARTIN

109 HEIRS OF S.B. ATKINSON

101 CHARLES MCNEILL

102 THE LUMBER RIVER CONSERVANCY

111 THE CITY OF LUMBERTON

SR6 KENRIC DR

SR9 JONATHAN DR

SR 1589 KENRIC DR 24' BST

SR 1593 JONATHAN DR 18' BST

I-95 SB 50' BST

I-95 NB 47' BST

SP. LAT. 2' BASE DITCH SEE DETAIL A

STANDARD 5' BASE DITCH SEE DETAIL E

CL B RIP RAP EST. 2 TONS EST. 7 SY GF

CL B RIP RAP EST. 3 TONS EST. 10 SY GF

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

CL 1 RIP RAP EST. 29 TONS EST. 39 SY GF

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

DON'T LOCATE OUTLET

TOE PROTECTION EXIST.R/W SEE DETAIL G

REMOVE HW

DUCKBILL

BEGIN PROP. 48" WW FENCE

18" WELDED STEEL

42" WELDED STEEL

FLOWABLE FILL

BEVELED HW SEE SPECIAL DETAIL

BM# 1-0

E3 pole and circuit doesn't line up on E3's relocation plan

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.45	FOR -Y2RPB- PROFILE SEE SHT.57
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

FOR -SR6- PROFILE SEE SHTS.84 THRU 85

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kalford

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Kevin.Alford

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 3 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 8

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 18)

SR6 KENRIC DR

SR9 JONATHAN DR

SR 1589 KENRIC DR 24' BST

I-95 SB 50' BST

I-95 NB 47' BST

CHARLES MCNEILL

THE LUMBER RIVER CONSERVANCY

MACK WHITE INVESTMENTS

MACK WHITE INVESTMENTS INC

CB OF EDENTON LLC

OUTDOOR REALTY LLC

UHS ROBESON PROPERTIES LLC

JEANNETTE MARTIN

HEIRS OF S.B. ATKINSON

THE CITY OF LUMBERTON

E3 pole and circuit doesn't line up on E3's relocation plan

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.45	FOR -Y2RPB- PROFILE SEE SHT.57
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

FOR -SR6- PROFILE SEE SHTS.84 THRU 85

FLATIRON UNITED

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Phone: 833-423-2322
License # P-0698

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 4 OF 38

200' 0 200'
GRAPHIC SCALE

NAD 83

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

E1 Relocation
Remove Existing Str #197

E1 Relocation
Install New Str #197

E1 Relocation
Remove Existing Str #198

E1 Relocation

E1 Str #196

E3 Relocation

E2 Relocation

E1 Relocation
Install New Str #199

E1 Relocation
Remove Existing Str #199

E1 Relocation
Remove Existing Str #200

E1 Relocation
Install New Str #200

E1 Relocation
Remove Existing Str #201

E1 Relocation
Install New Str #201

What is happening with this pole, circuit?

SITE 8

SITE 10

SEE SHEET 6 OF 38 FOR ENLARGED VIEW

SEE SHEET 7 OF 38 FOR ENLARGED VIEW

SEE SHEET 8 OF 38 FOR ENLARGED VIEW

MATCHLINE –L– STA. 269+00.00
(SEE SHEET 17)

MATCHLINE –L– STA. 297+00.00
(SEE SHEET 19)

SR 1174 (LUMBER RIVER RD.)

NC 72/CATO RD.

SR 1172 (COX RD.)

SR 1173 (HESTER DR.)

SR 1170 (W.5TH ST.)

CALLOUT LEGEND
(A) -Y2- PC Sta.17+60.62
(B) -Y2RPA- POT Sta.25+16.16 " -Y3- POC Sta.21+12.99
(C) -Y2RPB- POT Sta.21+71.50 " -Y2- POC Sta.21+53.40
(D) -Y2- PT Sta.26+63.20
(E) -SR10A- PT Sta.14+86.15

		FOR -L- PROFILE SEE SHTS.45 THRU 46
	FOR -SR7- PROFILE SEE SHTS.85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT.56
	FOR -SR8- PROFILE SEE SHTS.87-88	FOR -Y2RPB- PROFILE SEE SHT.57
	FOR -Y2- PROFILE SEE SHT.55	FOR -Y2RPC- PROFILE SEE SHTS.57
PROPOSED SIGNAL	FOR -SR10A- PROFILE SEE SHT.94	FOR -Y2RPD- PROFILE SEE SHT.58
PAVEMENT REMOVAL		

GRAPHIC SCALE
50 25 0 50 100
PLANS

ROUTE
STATE PROJECT
R-6064
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9/5/2025

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 5 OF 38

GRAPHIC SCALE 200' 0 200'

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

NAD 83

SITE 8

SITE 10

E1 Relocation
Remove Existing
Str #197

E1 Relocation
Install New
Str #197

E1 Relocation
Remove Existing
Str #198

E1 Relocation

E1 Str#196

E3 Relocation

E2 Relocation

E1 Relocation
Install New
Str #199

E1 Relocation
Remove Existing
Str #199

E1 Relocation
Remove Existing
Str #200

E1 Relocation
Install New
Str #200

E1 Relocation
Remove Existing
Str #201

E1 Relocation
Install New
Str #201

What is happening with this pole, circuit?

SEE SHEET 6 OF 38 FOR ENLARGED VIEW

SEE SHEET 7 OF 38 FOR ENLARGED VIEW

SEE SHEET 8 OF 38 FOR ENLARGED VIEW

MATCHLINE –L– STA. 269+00.00
(SEE SHEET 17)

MATCHLINE –L– STA. 297+00.00
(SEE SHEET 19)

CALLOUT LEGEND
(A) -Y2- PC Sta. 17+60.62
(B) -Y2RPA- POT Sta. 25+46.16 « -Y2- POC Sta. 21+12.99
(C) -Y2RPB- POT Sta. 21+71.50 « -Y2- POC Sta. 21+53.40
(D) -Y2- PT Sta. 26+63.20
(E) -SR10A- PT Sta. 14+86.15

	FOR -L- PROFILE SEE SHTS.45 THRU 46	
	FOR -SR7- PROFILE SEE SHTS.85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT.56
	FOR -SR8- PROFILE SEE SHTS.87-88	FOR -Y2RPB- PROFILE SEE SHT.57
☆ PROPOSED SIGNAL	FOR -Y2- PROFILE SEE SHT.55	FOR -Y2RPC- PROFILE SEE SHTS.57
PAVEMENT REMOVAL	FOR -SR10A- PROFILE SEE SHT.94	FOR -Y2RPD- PROFILE SEE SHT.58

GRAPHIC SCALE
50 25 0 50 100
PLANS

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102

THE LUMBER RIVER CONSERVANCY

NAD 83

STANDARD 5' BASE DITCH SEE DETAIL E

PDE

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

12.6 SQUARE FEET (4' DIAMETER AROUND PO FILL IN WETLANDS

TOE PROTECTIO SEE DETAIL C

CL I RIP RAP EST. 26 TONS EST. 50 SY GF

L B RIP RAP ST. 5 TONS ST. 14 SY GF

REMOVE

COULDN'T LOCATE OUTLET

PUE

DUE

RW

CA

PROP O/H POW LINES

REMOVE HW

DUCKBILL

CL B RIP RAP EST. 4 TONS EST. 5 SY GF

15" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

TOE PROTECTION SEE DETAIL G

EXIST. R/W

PROP. MON

2GI

15" RCP-III

15+00

48" WW

REMOVE HW

PLUG

INV=113.33'

CL I RIP RAP EST. 20 TONS EST. 39 SY GF

ROW LINES

PROP

MATCHLINE –L– STA. 269 + 00.00 (SEE SHEET 17)

FLOWABLE FILL

REMOVE DI

270+00

TOP=125.09'

INV=I

PLUG

TOP=125.17'

INV=116.04'

INV=113.06'

REMOVE 15"

48" WEI

24" RCP

15" RCP

ONC MEDIAN BARRIER WALL

40' 0' 40'

GRAPHIC SCALE

SITE 8 ENLARGEMENT

PERMIT DRAWING SHEET 6 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

0.8 SQUARE FEET
(1' DIAMETER AROUND GUY ANCHOR)
FILL IN WETLANDS

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

E3 has old relo would this be the correct pole to end/start

40' 0' 40'
GRAPHIC SCALE

SITE 10 ENLARGEMENT

PERMIT DRAWING SHEET 7 OF 38

12.6 SQUARE FEET
(4' DIAMETER AROUND POLE)
FILL IN WETLANDS

NAD 83

PUE
HC HC
WLB
PROP O/H POW LINES
TV FO
CL I RIP RAP
EST. 15 TONS
EST. 30 SY GF
INV=111.74'
PLUG
STEEL
2GI
36" WELDED
18"
FLOWABLE FILL
24" BST
20+00
15"
INV=111.91'
INV=111.79'
15" WELDED STEEL
15" PP
30" WELDED STEEL
REMOVE HW
GRASS
MTL
48" WW
15+00
REMOVE
GRADE TO DRAIN
REMOVE DI
TOP=120.62'
INV=113.38'
INV=113.59'
5' CO
END OF 36" RCP NO
48" WELDED STE

12.6 SQUARE FEET
(4' DIAMETER AROUND POLE)
FILL IN WETLANDS
CL B RIP RAP
EST. 3 TONS
EST. 10 SY GF

CL I RIP RAP
EST. 15 TONS
EST. 30 SY GF

E2 & E3 Pole

NAD 83

DUE

PROP O/H POW LINES

TOE PROTECTION
SEE DETAIL G

BUCKBILL

F

WLB

EXISTING R/W

EXIST. R/W

W/L

TV FO

25+00

30+00

295+00

REMOVE HW

PLUG

FLOWABLE FILL

REMOVE JB

PLUG REMOVE

48" WW

SR 1588 COX RD 18' BST

GRASS

MTL

36" WELDED STEEL

18" WELDED STEEL

15" WELDED STEEL

TB 2GI

TB JBw/MH

FLOWABLE FILL

REMOVE DI

REMOVE 15'
OF 15" RCP

15" RCP-III

2GI

40' 0' 40'

GRAPHIC SCALE

SITE 10 ENLARGEMENT

PERMIT DRAWING SHEET 8 OF 38

F F FILL IN WETLAND

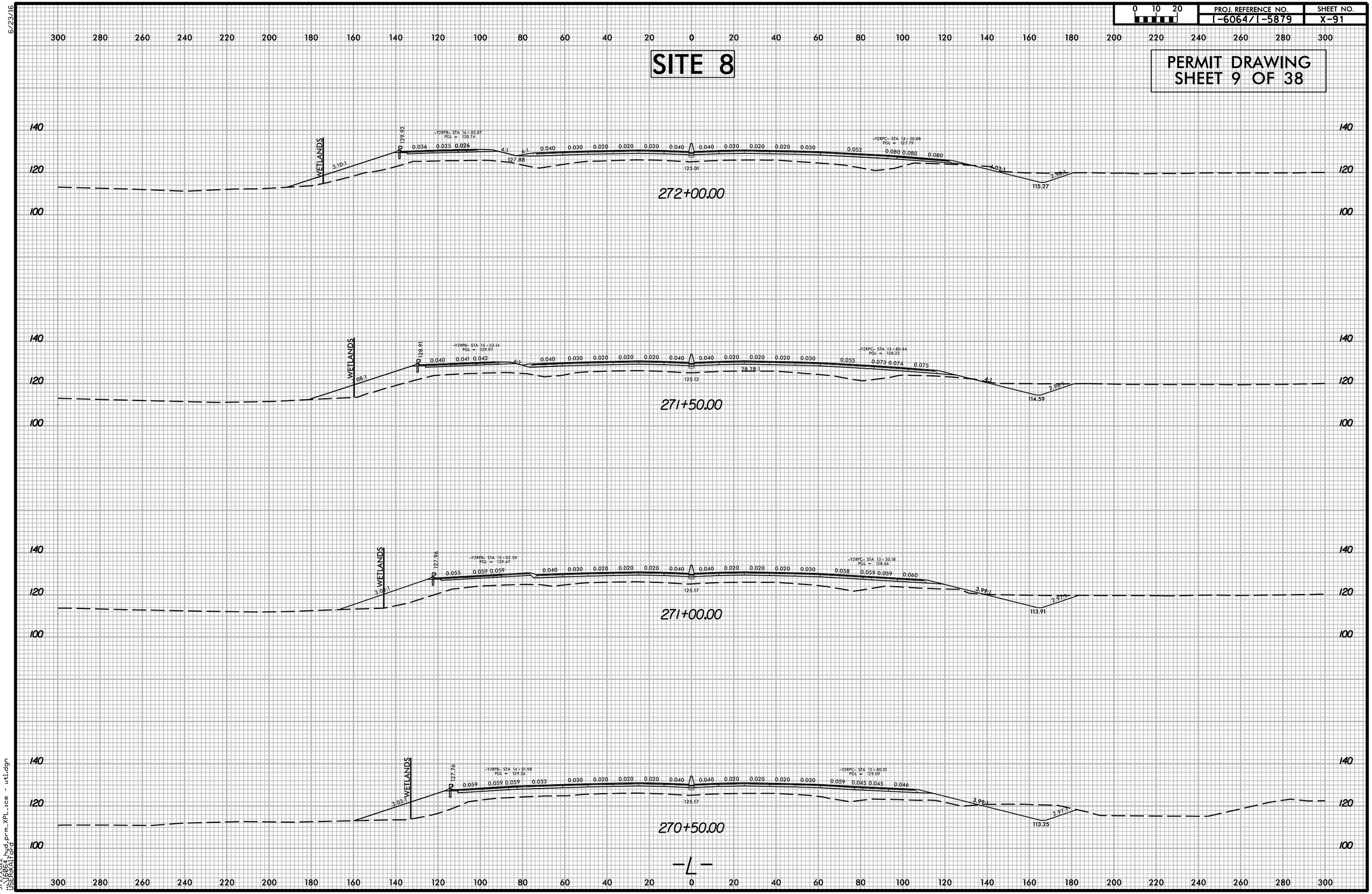
HC HC HAND CLEARING (NON-GRUBBING)

6/23/16

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-91

SITE 8

PERMIT DRAWING
SHEET 9 OF 38



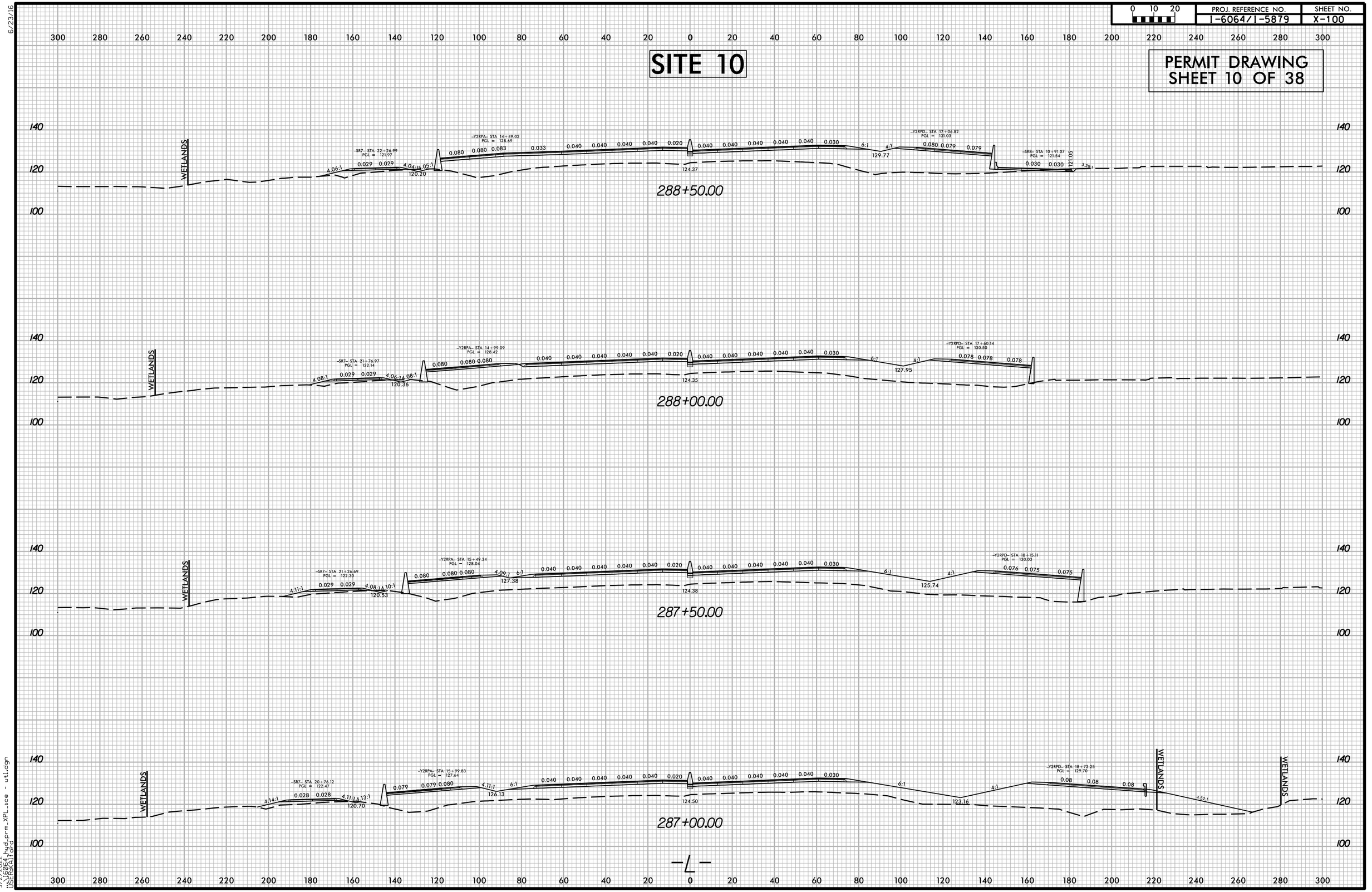
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6/23/16

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	I-6064/I-5879	X-100

SITE 10

PERMIT DRAWING
SHEET 10 OF 38



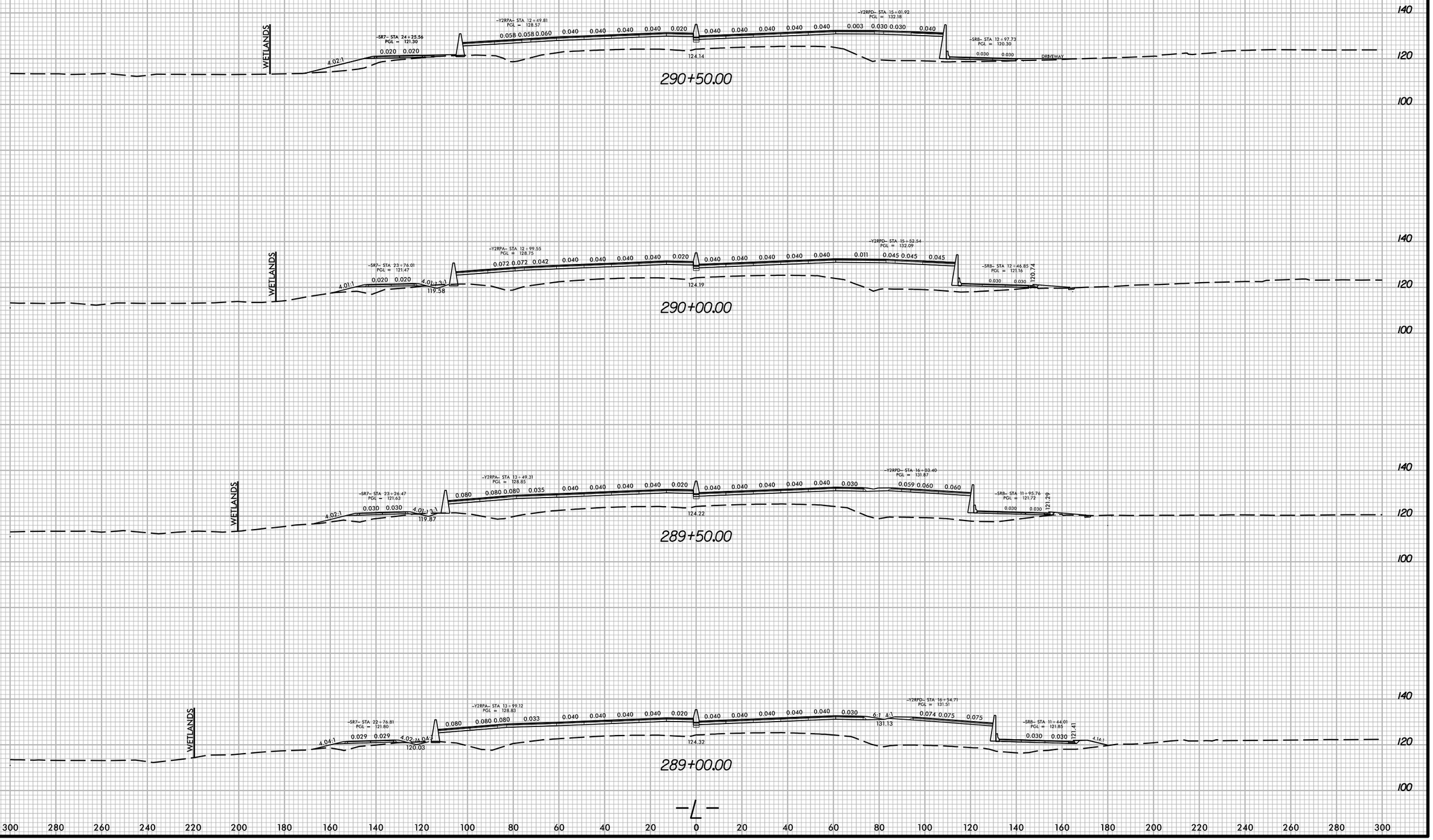
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6/23/16

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	I-6064/I-5879	X-101

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

PERMIT DRAWING
SHEET 11 OF 38



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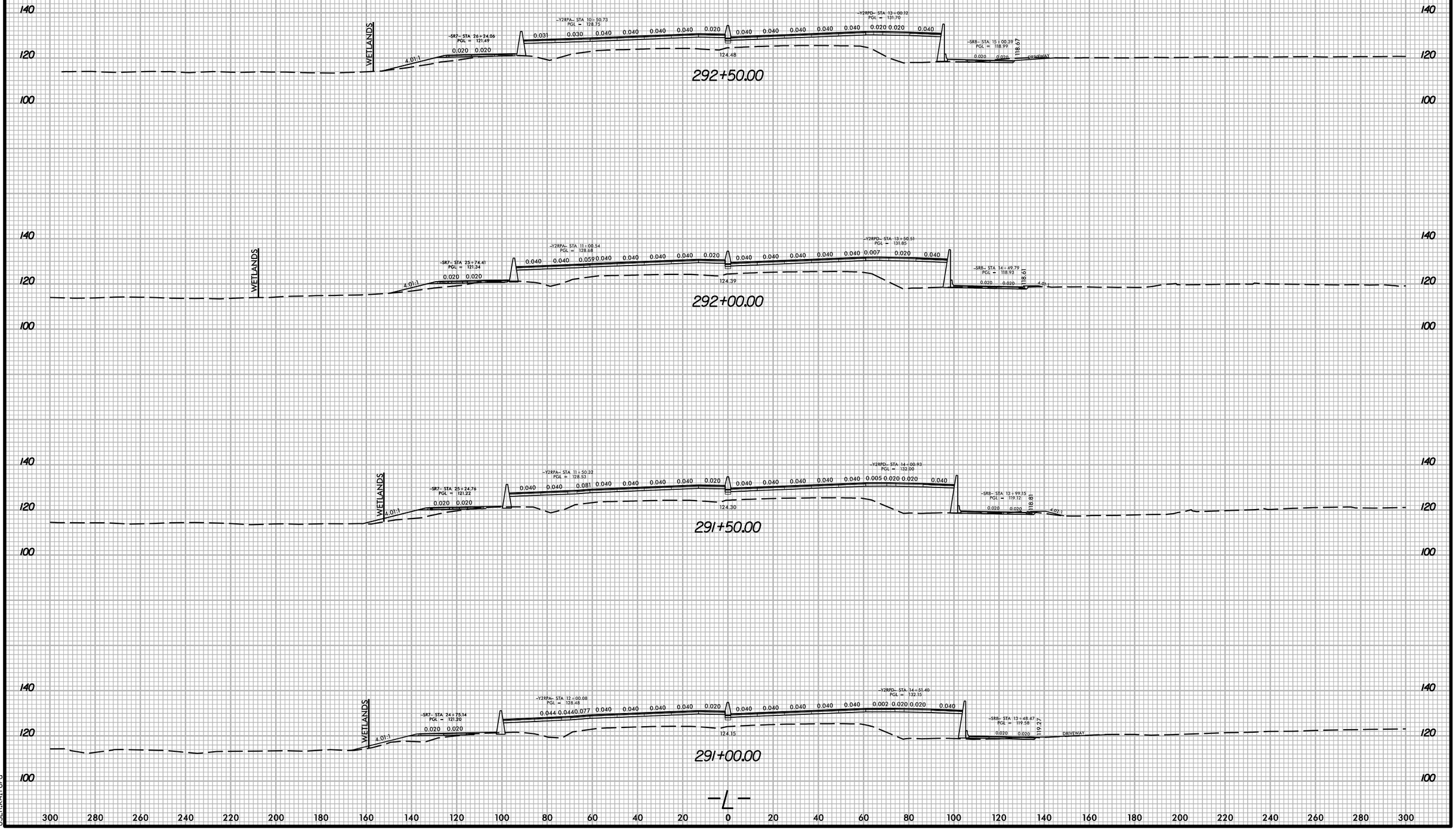
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0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-102

SITE 10

PERMIT DRAWING
SHEET 12 OF 38

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



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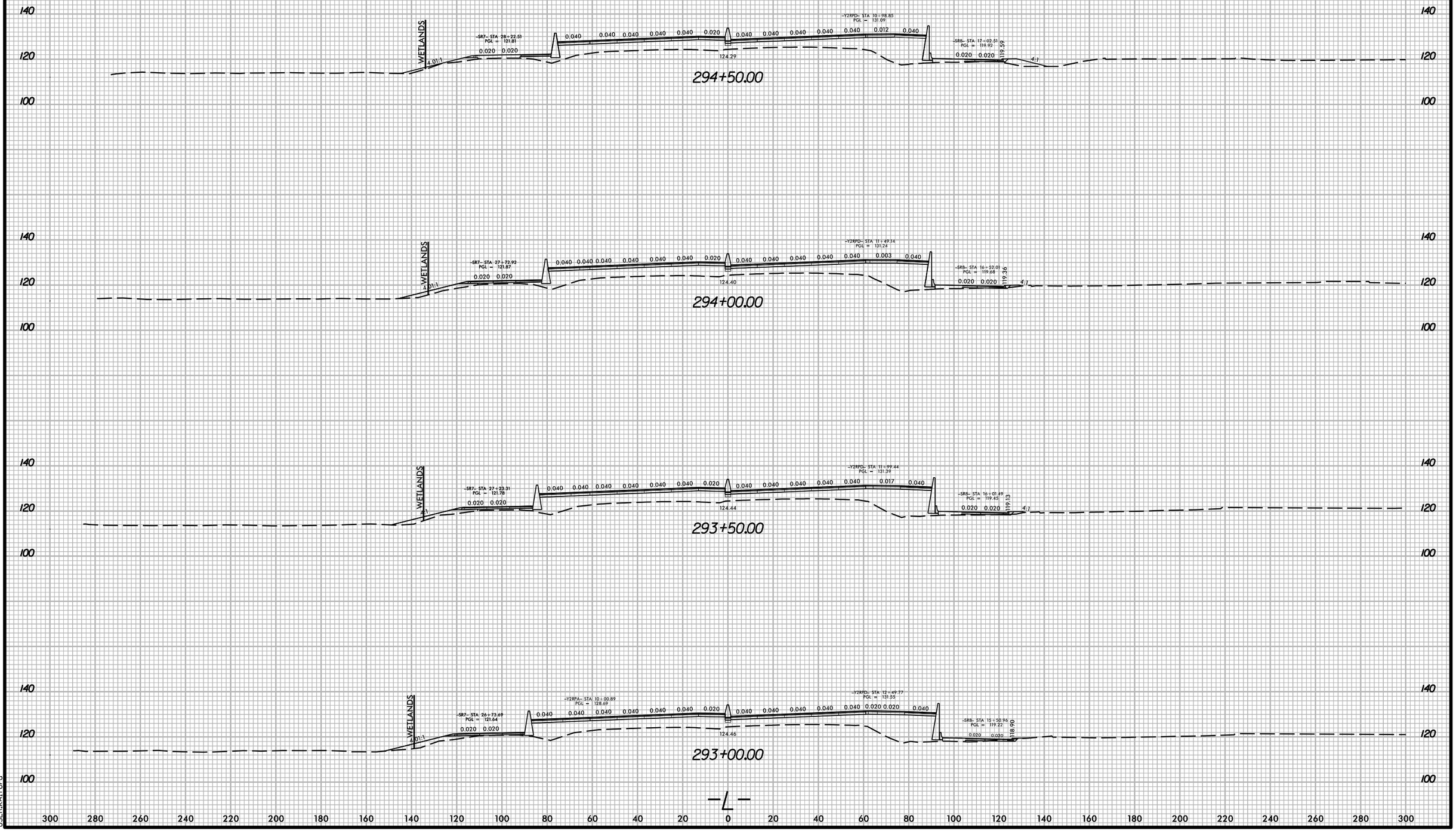
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	I-6064/I-5879	X-103

SITE 10

PERMIT DRAWING
SHEET 13 OF 38

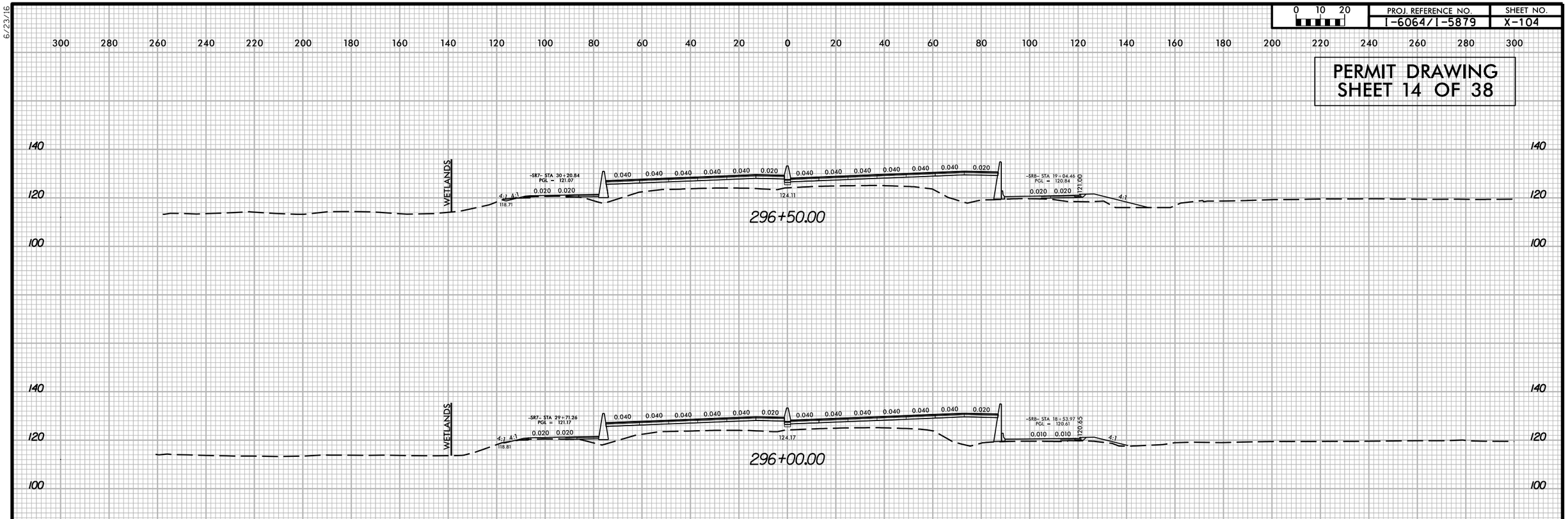
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0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-104

PERMIT DRAWING
SHEET 14 OF 38



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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 15 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'

GRAPHIC SCALE

NAD 83

SITE 10

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 18)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 20)

SR7 COX RD.

SR8 HESTER DR.

SR 1588 COX RD R/W BST

SR 1592 HESTER DR 2D BST

140 D.D. KING FAMILY PROPERTIES LLC

141 HUBERT OXENDINE

142 JOHN VALADE

143 MARIYKA STANISLAVOVA

144

145 JOHN VALADE

146 MILDRED HUNT

147 K P FOODS INC

148 MARY LOUISE STEPHENS

149 MARY LOUISE STEPHENS

150 HORACE HARDIN

151 O'REILLY AUTOMOTIVE STORES INC

152 RALPH LOCKLEAR

153 K M BIGGS INCORPORATED

154 HEAVARD OXENDINE

THE SCHAFER COMPANY INC

ISBK CHURCH

ISBK BUS ABAND

ISBK BUS

ISBKD

ISFD

CAR WASH

MTL CANOPY

MTL CONTAINER

SHOULDER BERM GUTTER

BILL BOARD

WOODEN POST

EXIST.R/W

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. LAT. 5' BASE DITCH SEE DETAIL B

SP. LAT. 4' BASE DITCH SEE DETAIL AJ

SP. CUT 2' BASE DITCH SEE DETAIL T

SP. DET. TB 2GI-A

SP. DET. TB 2GI-A 30" PP

STD 4' BASE DITCH SEE DETAIL V

TOE PROTECTION SEE DETAIL G

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

CL I RIP RAP EST. 10 TONS EST. 23 SY GF

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

BEVELED HW SEE SPECIAL DETAIL

RETAIN & ADJUST

LOCATE & REMOVE

LOCATE AND PLUG

REMOVE

REMOVE HW

REMOVE DI

REMOVE FES

FLOWABLE FILL

PLUG

DUCKBILL

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE.	FOR -SR8- PROFILE SEE SHTS.87 THRU 88
SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.46	FOR -SR7- PROFILE SEE SHT.86

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8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

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ICE of Carolinas, PLLC
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Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 16 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'

GRAPHIC SCALE

NAD 83

SITE 10

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 18)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 20)

SR7 COX RD.

SR8 HESTER DR.

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

STD 4' BASE DITCH SEE DETAIL V

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

CL I RIP RAP EST. 10 TONS EST. 23 SY GF

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. LAT. 5' BASE DITCH SEE DETAIL B

TOE PROTECTION SEE DETAIL G

SP. CUT 2' BASE DITCH SEE DETAIL T

SP. LAT. 4' BASE DITCH SEE DETAIL AJ

BEVELED HW SEE SPECIAL DETAIL

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

FLOWABLE FILL

REMOVE HW

REMOVE FES

REMOVE DI

LOCATE AND PLUG

LOCATE & REMOVE

RETAIN & ADJUST

140 S & K KING FAMILY PROPERTIES LLC

141 HUBERT OXENDINE

142 JOHN VALADE

143 MARIYKA STANISLAVOVA

144 JOHN VALADE

145 THE SCHAFER COMPANY INC

146 MILDRED HUNT

147 K P FOODS INC

148 MARY LOUISE STEPHENS

149 MARY LOUISE STEPHENS

150 HORACE MARDIN

151 O'REILLY AUTOMOTIVE STORES INC

152 RALPH LOCKLEAR

153 K M BIGGS INCORPORATED

154 HEAVARD OXENDINE

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. | FOR -SR8- PROFILE SEE SHTS.87 THRU 88

SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.46 | FOR -SR7- PROFILE SEE SHT.86

$DATE$ $TIME$
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Kevin.Alford

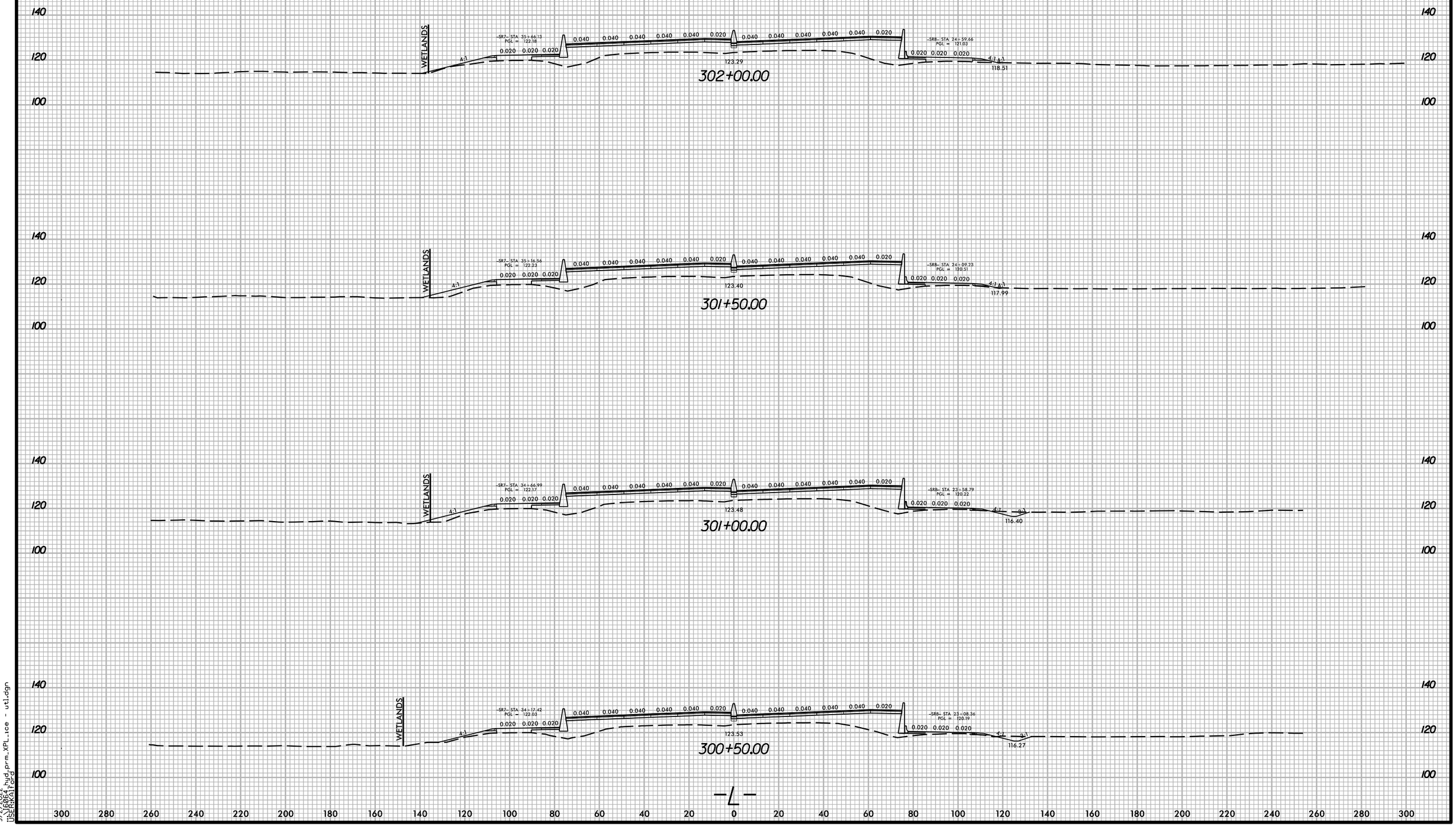
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0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-107

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

SITE 10

PERMIT DRAWING
SHEET 17 OF 38



9/2/2022
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FLATIRON UNITED INFRASTRUCTURE GROUP

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 18 OF 38

100' 0' 100'

GRAPHIC SCALE

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

MATCHLINE -L- STA. 347+00.00 (SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 24)

Lumber River

Saddletree Swamp

THE CITY OF LUMBERTON (173, 176)

STATE HIGHWAY AND PUBLIC WORKS COMMISSION (172, 174)

THE LUMBER RIVER CONSERVANCY (177, 178, 181, 182)

JAMES N. BRITT III (179, 183)

CITY OF LUMBERTON (175)

LAT. 5' BASE DITCH SEE DETAIL AO

CL II RIP-RAP ROCK PLATING

CL I RIP RAP EST. 11 TONS EST. 22 SY GF

CL I RIP RAP EST. 3 TONS EST. 5 SY GF

CL I RIP RAP EST. 2 TONS EST. 7 SY GF

15" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

+60.00 150.00 LT

TIE PROP WW FENCE TO BRIDGE

EXIST. R/W

60' WW

REMOVE

REMOVE DI

TB 2GI

15" RCP-III

15" WELDED STEEL

18" WELDED STEEL

15" PP

24" PP

PLUG

FLOWABLE FILL

BERM GUTTER

CONC MEDIAN BARRIER WALL

REMOVE CONCRETE DITCH 12' CONC

STRUCTURE EXCAVATION

WALL SCOUR COUNTERMEASURE 48" RW & 15BR

25' WATER AND SEWER DISPOSAL EASEMENT DB 49 PG 49

CL II RIP RAP

SP. DET. TB JB wMH (DROP STRUCTURE)

CL I RIP RAP EST. 48 TONS EST. 89 SY GF

TERMINUS UNKNOWN

45" CMP REMOVE

66" HW

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

0.8 SQUARE FEET (1' DIAMETER AROUND GUY ANCHOR) FILL IN WETLANDS

PROP O/H POW LINES

PROP U/G POW CONDUIT

PUE

HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC HC

WOODS

THE RIVER WALK 8' BST

MTL

23' BST

15' BST

8' BST

5' BST

195 SBL VARIABLE WIDTH BST

195 NBL VARIABLE WIDTH 24' BST

BRIDGE #147

BRIDGE #146

BRIDGE SEAT=119.30'

BRIDGE SEAT=119.57'

BRIDGE SEAT=119.84'

350+00

355+00

360+00

SITE 19

NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.48

SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -Y4RPB- PROFILE SEE SHT.61

$DATE$ $TIME$
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KAlford

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 19 OF 38

100' 0' 100'
GRAPHIC SCALE

F F FILL IN WETLAND
HC HC HAND CLEARING (NON-GRUBBING)

MATCHLINE -L- STA. 347+00.00 (SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 24)

SITE 19

NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.48

SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE. | FOR -Y4RPB- PROFILE SEE SHT.61

$DATE$ $TIME$
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Kevin.Alford

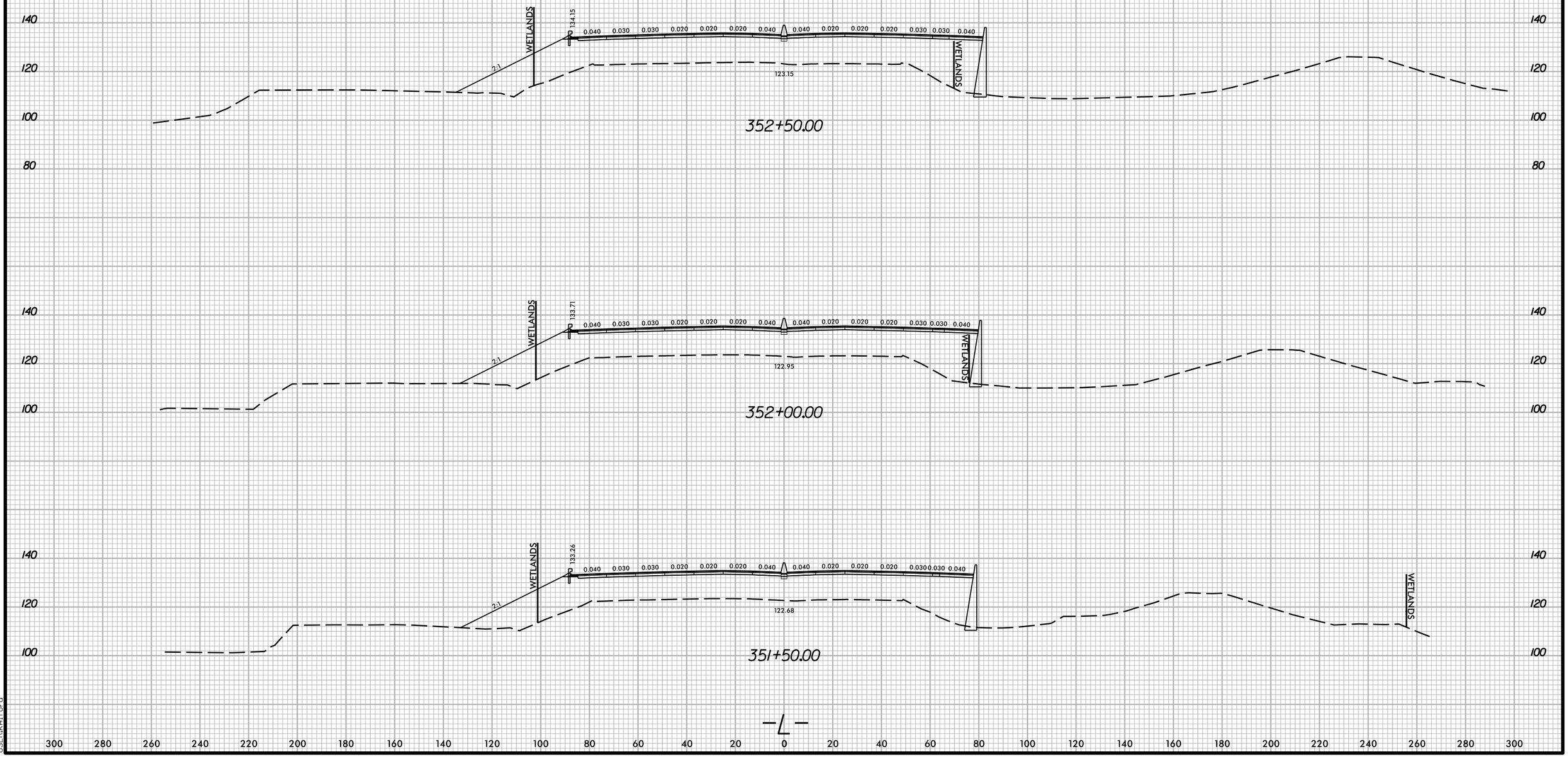
6/23/16

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	I-6064/I-5879	X-136

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SITE 19

PERMIT DRAWING
SHEET 20 OF 38



300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

9/2/2022
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USERKAlford

FLATIRON UNITED

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4525 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 833-423-2423
License # P-0688

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 21 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

RALEIGH

200' 0' 200'

GRAPHIC SCALE

SITE 22

SITE 21

MATCHLINE -Y4- STA. 19+00.00 (SEE SHEET 32)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 23)

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 25)

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 33)

SEE SHEET 23 OF 38 FOR ENLARGED VIEW

SEE SHEET 24 OF 38 FOR ENLARGED VIEW

SR2 KAPLANO ST

SR1 LACKEY ST

EXIST.R/W

Lumber River

CALLOUT LEGEND	
A	-SR1- POT Sta. 10+00.00 = -Y4- POT Sta. 23+42.49
B	-RAB1- POC Sta. 22+00.00 = -RAB1- POC Sta. 23+58.14
C	-SR1- PC Sta. 10+94.22
D	-Y4RPC- PT Sta. 22+50.79
E	-Y4RPC- POT Sta. 22+67.33
F	-SR2- POT Sta. 10+00.00 = -Y4- POT Sta. 37+76.45
G	-RAB2- POC Sta. 30+00.00 = -RAB2- POT Sta. 33+58.14

		FOR -L- PROFILE SEE SHT.49
FOR -SR1- PROFILE SEE SHT.69	FOR -Y4- PROFILE SEE SHT.59	FOR -Y4RPB- PROFILE SEE SHT.61
FOR -SR2- PROFILE SEE SHTS.71 THRU 72	FOR -RAB1- PROFILE SEE SHT.60	FOR -Y4RPC- PROFILE SEE SHT.62
FOR -Y4RPA- PROFILE SEE SHTS.60 THRU 61	FOR -RAB2- PROFILE SEE SHT.60	FOR -Y4RPD- PROFILE SEE SHT.62

GRAPHIC SCALE
50 25 0 50 100
PLANS

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8/21/2025

FLATIRON UNITED

ICE of Carolinas, PLLC
4525 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 833-423-2222
License #: P-0698

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 22 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

RAD 83

200' 0' 200'
GRAPHIC SCALE

SITE 22

SITE 21

MATCHLINE -Y4- STA. 19+00.00 (SEE SHEET 32)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 23)

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 39)

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 25)

SEE SHEET 23 OF 38 FOR ENLARGED VIEW

SEE SHEET 24 OF 38 FOR ENLARGED VIEW

SR2 CAPLAND ST

SR2 BRIARKEY ST

Lumber River

CALLOUT LEGEND
Ⓐ -SRI- POT Sta. 10+70.00 = -Y4- POT Sta. 23+42.49
Ⓑ -RAB1- POC Sta. 20+00.00 = -RAB1- POC Sta. 23+58.14
Ⓒ -SRI- PC Sta. 10+94.22
Ⓓ -Y4RPC- PT Sta. 22+50.79
Ⓔ -Y4RPC- POT Sta. 22+67.33
Ⓕ -SR2- POT Sta. 10+50.00 = -Y4- POT Sta. 31+76.42
Ⓖ -RAB2- POC Sta. 30+00.00 = -RAB2- POT Sta. 33+98.14

		FOR -L- PROFILE SEE SHT.49
FOR -SRI- PROFILE SEE SHT.69	FOR -Y4- PROFILE SEE SHT.59	FOR -Y4RPB- PROFILE SEE SHT.61
FOR -SR2- PROFILE SEE SHTS.71THRU 72	FOR -RAB1- PROFILE SEE SHT.60	FOR -Y4RPC- PROFILE SEE SHT.62
FOR -Y4RPA- PROFILE SEE SHTS.60 THRU 61	FOR -RAB2- PROFILE SEE SHT.60	FOR -Y4RPD- PROFILE SEE SHT.62

GRAPHIC SCALE
50 25 0 50 100
PLANS

DATE PLOTTED: 8/19/2025 8:19:47 AM
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c:\powershell\plotscript\plotscript.scr

PLUG 15" WELDED STEEL
TB 2GI
FLOWABLE FILL
TB 2GI
15" WELDED STEEL
TB 2GI
TB 2GI
18" RCP-IV
18" RCP-IV
TB 2GI
TB 2GI
18" WELDED STEEL
195 NBL VARIABLE WIDTH BST
TERMINUS UNKNOWN
LOCATE & FILL
TOP=123.77'
INV=116.17'
FLOWABLE FILL
PLUG
PLUG
REMOVE
LOCATE & REMOVE
REMOVE CONCRETE DITCH
PLUG
TRENCHLESS INSTALLATION
48" WELDED STEEL
3GI-A
SP. DET. TB 2GI-A
24" PP
SP. DET. TB 2GI-A
24" PP
PLUG
PLUG
SP. DET. TB 2GI-A
FLOWABLE FILL
30" PP
SP. DET. TB 2GI-A
30" PP
15+00
C
SP. CUT V' DITCH C
SEE DETAIL AP
PROP U/G POW CONDUIT
PROP U/G POW CONDUIT
PROP O/H POW LINES
PROP O/H POW LINES
REMOVE
HC HC HC
HC HC HC HC HC
HC HC HC
HC HC HC
PUE
PUE
12.6 SQUARE FEET
(4' DIAMETER AROUND POLE)
FILL IN WETLANDS
PUE
PUE
PUE
PDE
PDE
DUE
DUE
DUE
F
30" RCP-III
54" RCP-III
2GI-A
C
SP. CUT 2' BASE DITCH
SEE DETAIL T
15" RCP-III
48" WW & ISBW
C
A
WALL SCOUR
COUNTERMEASURE
STD. 8' BASE DITCH
W/CL I RIP RAP
SEE DETAIL AY
WLB
WLB
WLB
WLB
WLB
E2 pole
E3 pole
E3 pole
E3 pole
E3 pole
JS
JS MIT
JS
JS MIT
SF
SF
SF
MTL
GRAVEL
WOODS
WOODS
WOODS
40' 0' 40'
GRAPHIC SCALE
NAD 83

SITE 21 ENLARGEMENT

PERMIT DRAWING SHEET 23 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

NAD 83

0.8 SQUARE FEET (1' DIAMETER AROUND FILL IN WETLANDS

STD. 3' BASE DITCH W/CL B RIP RAP SEE DETAIL K

TOE PROTECTION SEE DETAIL G

DUE

DUE

HC

HC

RETAIN

REMOVE

REMOVE

REMOVE DI

REMOVE CB

LOCATE & REMOVE JB

RETAIN

RETAIN CB

REMOVE

REMOVE

REMOVE

REMOVE

PLUG

FLOWABLE FILL

PLUG

30" RCP-III

30" RCP-III

30" RCP-III

24" RCP-III

18" RCP-III

15" RCP-III

15" RCP-III

15" RCP-III

15" RCP-III

15" RCP-IV

15" RCP-IV

15" RCP-IV

15" RCP-III

48" WW FENCE

48" WW & ISBW

PROP O/H POW LINES

PROP O/H POW LINES

PROP O/H POW LINES

PROP U/G POW CABLES

O/H POW LINES

END FENCE

PFEH

POSSIBLY ABANDONED

INV A=129.67'

INV B=129.67'

TOP=131.50'

INV=129.00'

TOP=131.90'

INV (SE)=125.87'

INV (NW)=125.86'

INV=124.20'

TOP=132.48'

INV (SE)=127.36'

INV (NW)=127.29'

POSSIBLE BURIED JUNCTION BOX

TOP=131.92'

INV=131.52'

-SR1- +36.01 50.00 RT

-Y4- +15 130.00

25+00

20+00

Y4 CARTHAGE RD

6" CONC CURB

GRASS

EXIST.R/W

EXIST.R/W

218

ISBLK/BLDG (BUS)

CORPORATION

4-ISL'S 4 GAS PUMPS U/MTL CANOPY

2-ISL'S 2 GAS PUMPS U/MTL CANOPY

PHONE BOOTH

AIT, Unknown

12" RCP

8" RCP

60" CLK

30" C&G

54" CONC

6" CONC CURB

W/LT

BST

CONC

CB

DI

CR

F

W

LS

T

E3 pole

40' 0' 40'

GRAPHIC SCALE

SITE 22 ENLARGEMENT

PERMIT DRAWING SHEET 24 OF 38

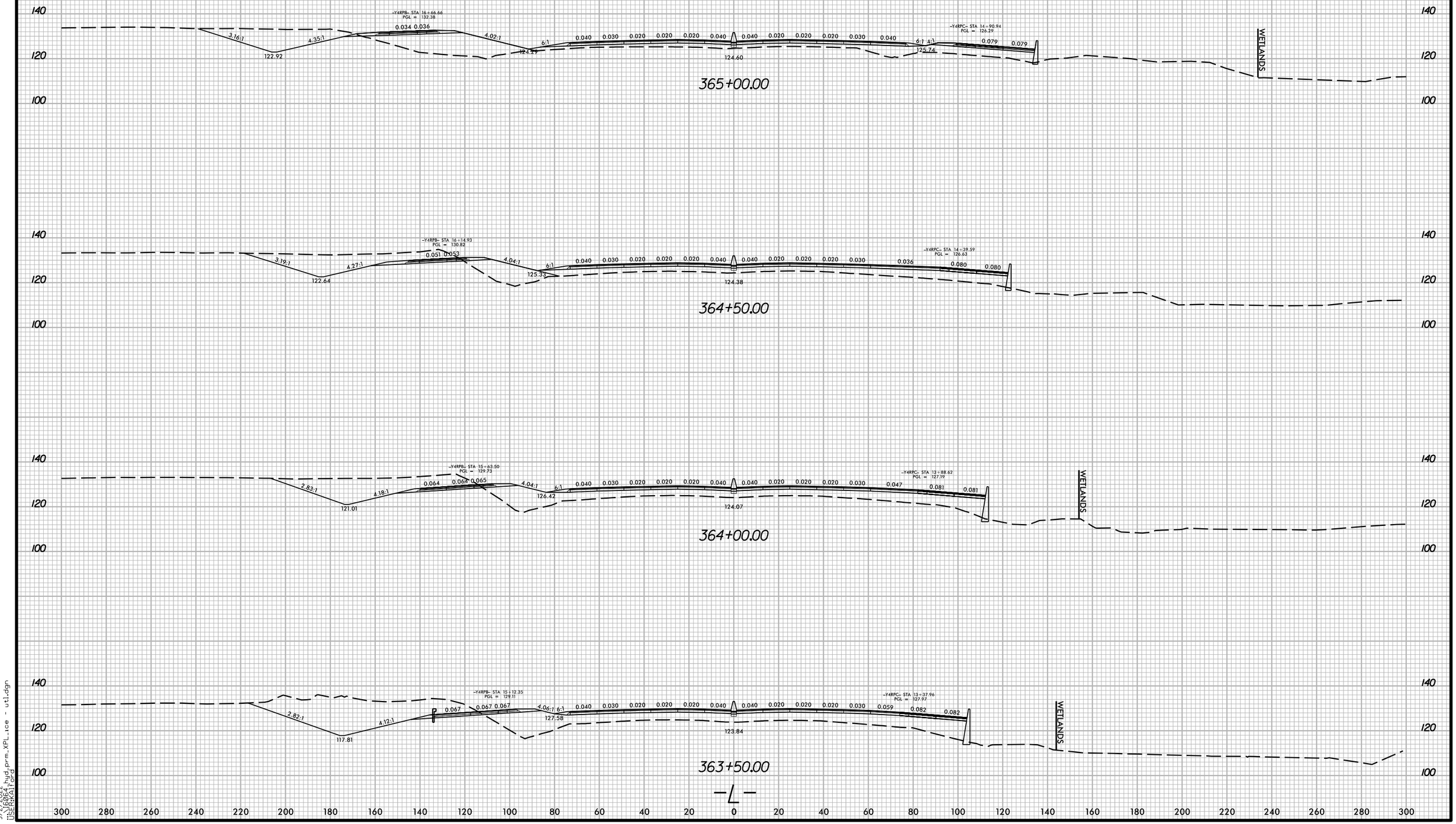
F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

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	I-6064/I-5879	X-144

SITE 21

PERMIT DRAWING
SHEET 25 OF 38

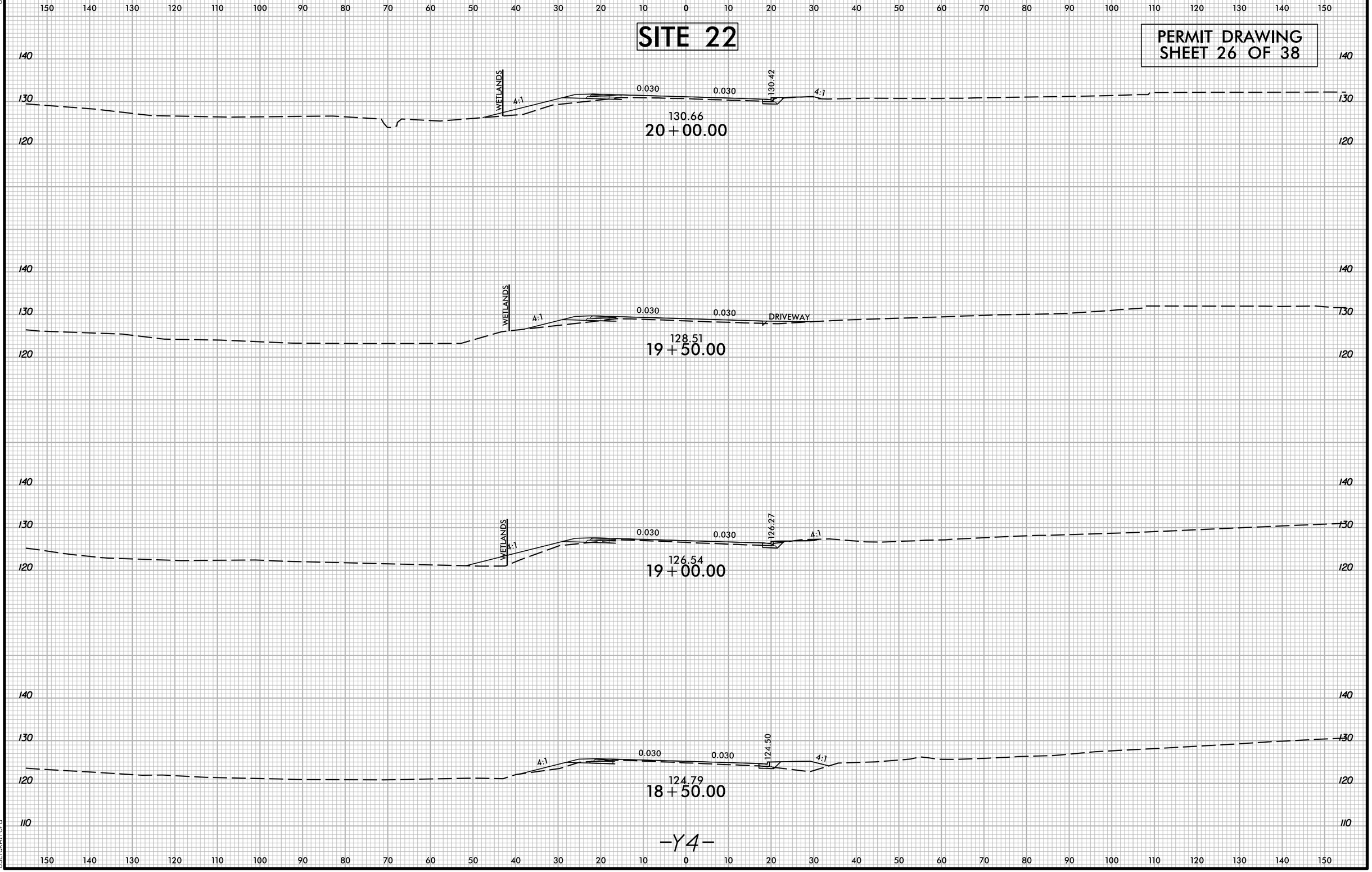


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	I-6064/I-5879	X-238

SITE 22

PERMIT DRAWING
SHEET 26 OF 38



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8/17/99

FILL IN WETLAND

HAND CLEARING (NON-GRUBBING)

100' 0' 100'

GRAPHIC SCALE

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 27 OF 38

NAD 83

SITE 29

SITE 24

SITE 25

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 29)

Meadow Branch

CITY OF LUMBERTON

FRENCH FAMILY PROPERTIES

CHARLES MCNEIL

SOUTHERN NATIONAL BANK

Fivemile Branch

SR4 DAWN DR

SR5 KAHN DR

-L- I-95

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL Q

0.8 SQUARE FEET (1' DIAMETER AROUND GUY ANCHOR) FILL IN WETLANDS

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

SPECIAL LAT. DITCH SEE DETAIL F

TOE PROTECTION SEE DETAIL W W/CL B RIPRAP EST 100 TONS EST 148 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 60 TONS EST 130 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 90 TONS EST 200 SY GT

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

INLET CHANNEL IMPROVEMENTS SEE DETAIL P

CHANNEL CHANGE SEE DETAIL AZ DDE = 1800 CY

CLASS I RIP RAP BANK STABILIZATION CL I RR 424 TNS GEO 720 SY

CLASS I RIP RAP BANK STABILIZATION CL I RR 322 TNS GEO 545 SY

3 @ 10' x 11' RCBC WITH BEVELED HEADWALL BURIED 1'

ATT Relocation Replacement Cables will be placed on pole line.

FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

$DATE$ $TIME$
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Kevin Alford

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 28 OF 38

F F FILL IN WETLAND

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 29

SITE 24

SITE 25

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 29)

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL Q

0.8 SQUARE FEET (1' DIAMETER AROUND GUY ANCHOR) FILL IN WETLANDS

12.6 SQUARE FEET (4' DIAMETER AROUND POLE) FILL IN WETLANDS

SPECIAL CUT DITCH SEE DETAIL F

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 60 TONS EST 130 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 90 TONS EST 200 SY GT

SR4 DAWN DR

SR5 KAHN DR

Y5RPA

-L- I-95

FLOWABLE FILL

3 @ 10' x 11' RCBC WITH BEVELED HEADWALL BURIED 1'

TOE PROTECTION SEE DETAIL W W/CL B RIPRAP EST 100 TONS EST 148 SY GT

INLET CHANNEL IMPROVEMENTS SEE DETAIL P

CHANNEL CHANGE SEE DETAIL AZ DDE = 1800 CY

CLASS I RIP RAP BANK STABILIZATION CL I RR 424 TNS GEO 720 SY

CLASS I RIP RAP BANK STABILIZATION CL I RR 322 TNS GEO 545 SY

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

ATT Relocation Replacement Cables will be placed on pole line.

Fivemile Branch

CITY OF LUMBERTON

FRENCH FAMILY PROPERTIES

CHARLES MCNEIL

SOUTHERN NATIONAL BANK

FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

$DATE$ $TIME$
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Kevin Alford

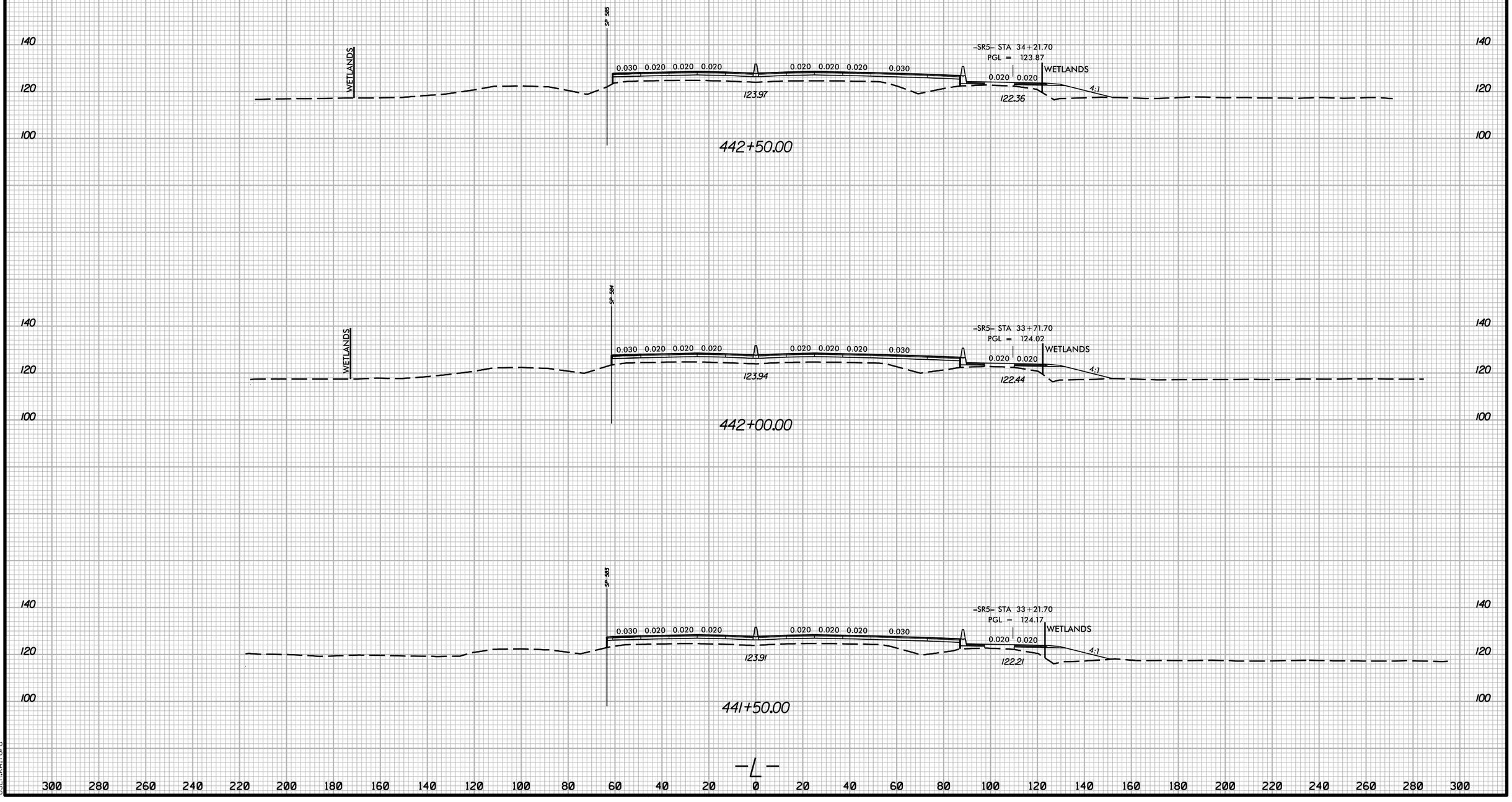
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SITE 29

PERMIT DRAWING
SHEET 29 OF 38



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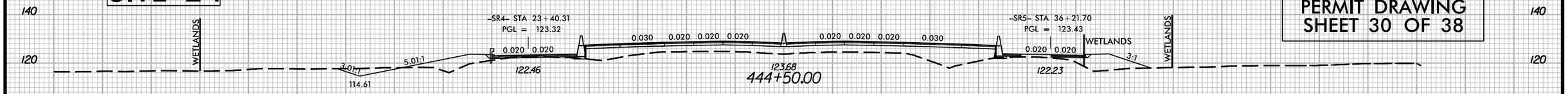
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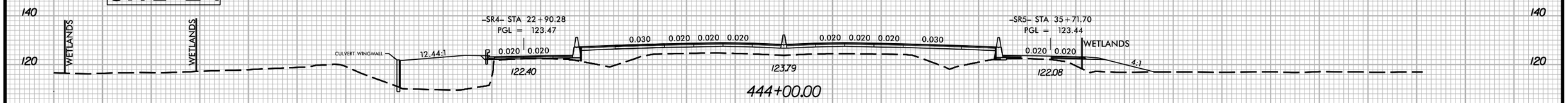
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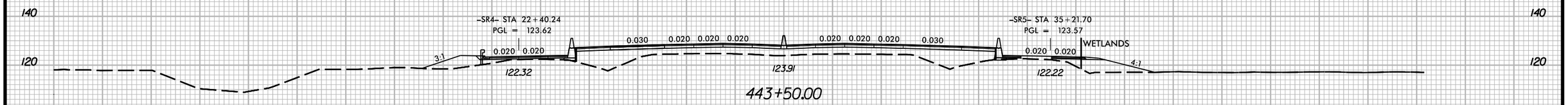
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PERMIT DRAWING
SHEET 30 OF 38

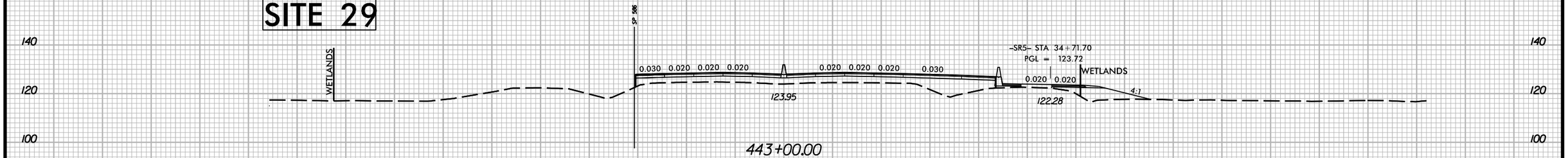


SITE 24





SITE 29



-L-

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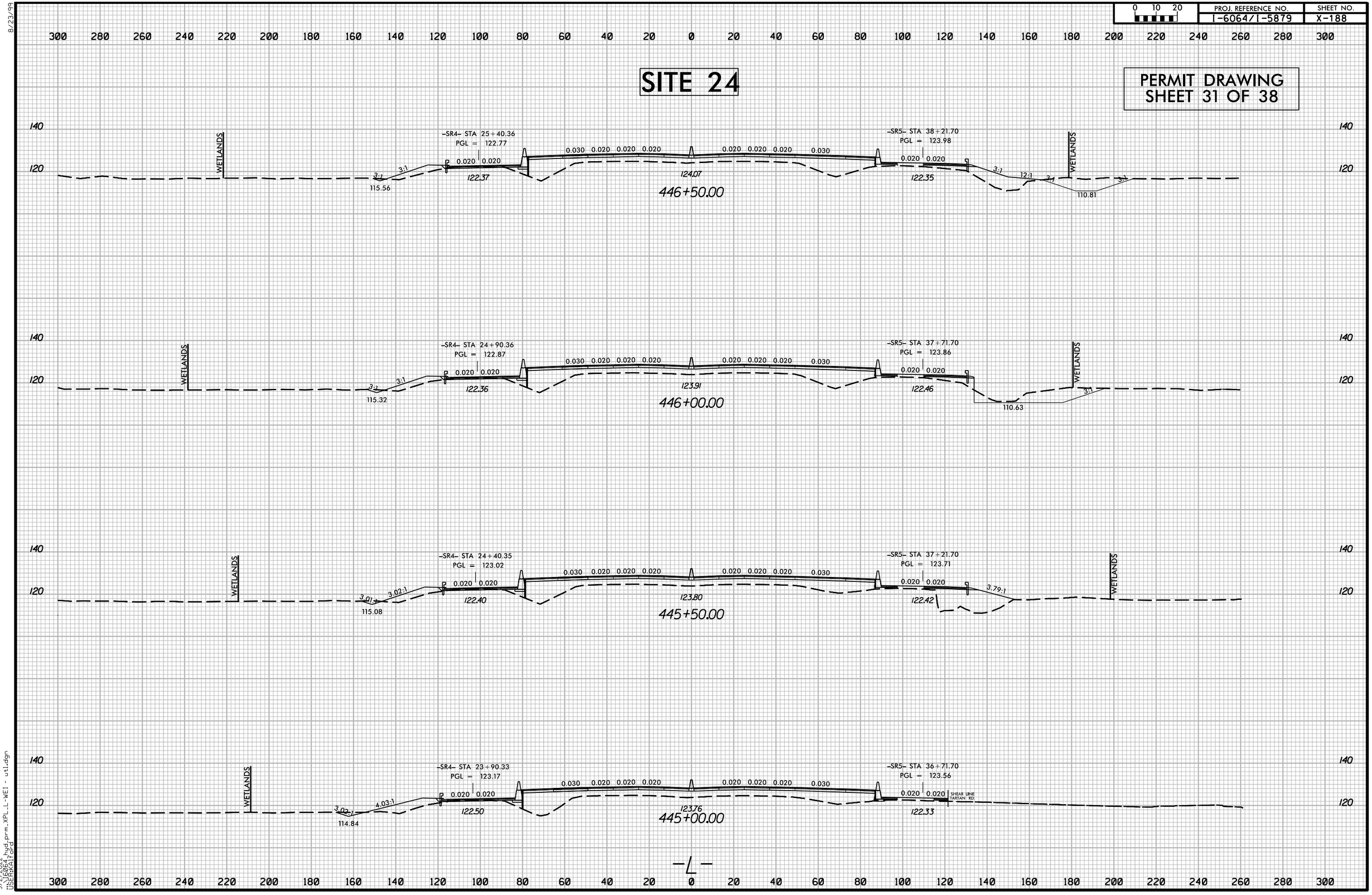
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8/23/99

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	I-6064/I-5879	X-188

SITE 24

PERMIT DRAWING
SHEET 31 OF 38



9/2/2022
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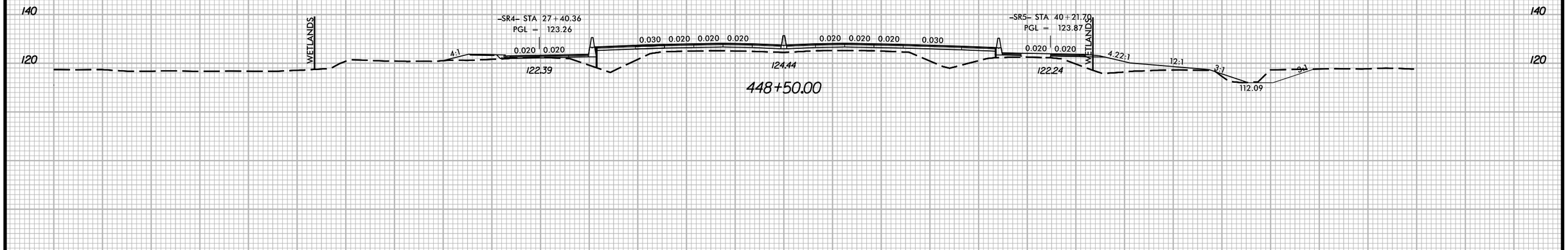
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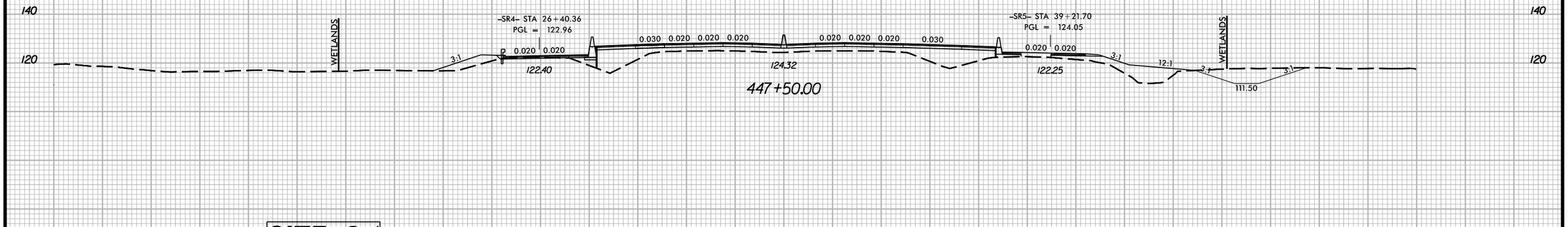
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PERMIT DRAWING
SHEET 32 OF 38

SITE 25



SITE 24



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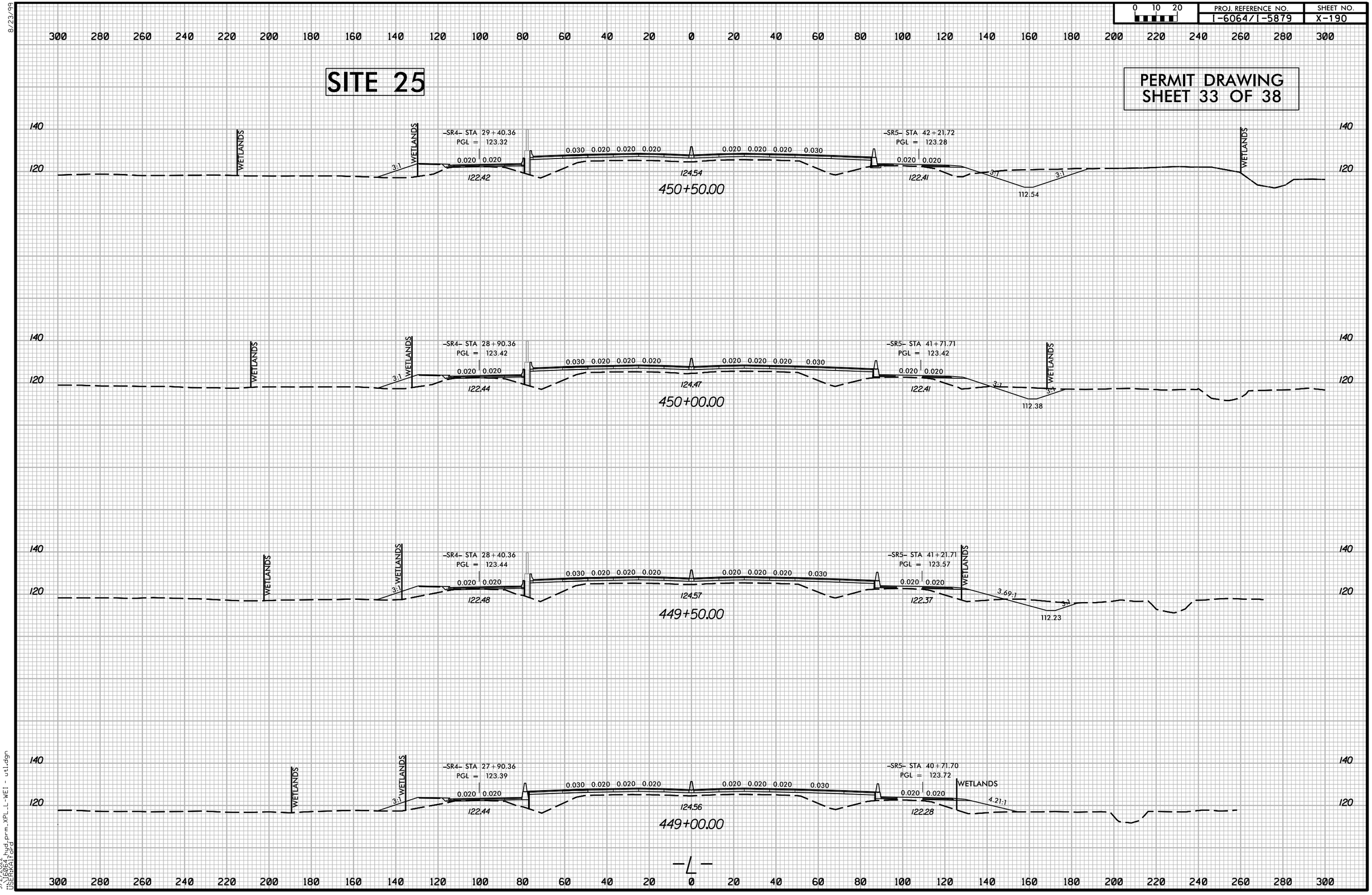
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USER:KAITford

8/23/99

0 10 20	PROJ. REFERENCE NO.	SHEET NO.
	I-6064/I-5879	X-190

SITE 25

PERMIT DRAWING
SHEET 33 OF 38



9/2/2022
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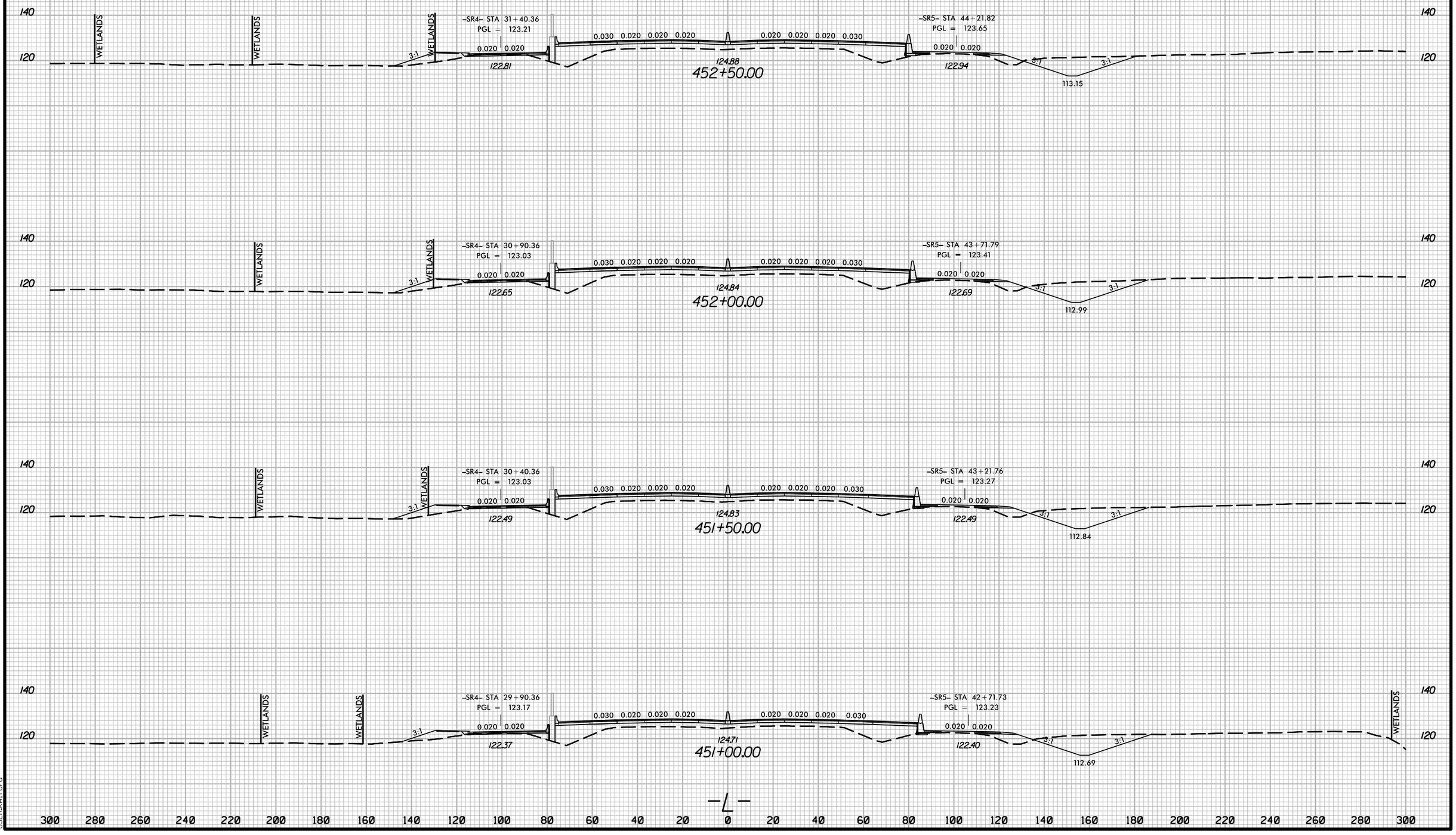
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	I-6064/I-5879	X-191

SITE 25

PERMIT DRAWING
SHEET 34 OF 38

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 35 OF 38

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 28)

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 30)

SITE 25

405 FRENCH FAMILY PROPERTIES

406 FRENCH FAMILY PROPERTIES

273B CITY OF LUMBERTON

277 YUK HAN LIU

272 SOUTHERN NATIONAL BANK

278 KENT BALDWIN

279 STEVEN BRANCH

SR4 DAWN DR

SR5 KAHN DR

WELLINGTON DR (CITY OF LUMBERTON)

HAND CLEARING (NON-GRUBBING)

SPECIAL CUT DITCH SEE DETAIL F

NOTE: ELIMINATE CUT DITCH FROM 53+00 TO 53+80

FILL EXISTING DITCH

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

CL I RIP RAP EST. 26 TON EST. 50 SY GT

SPECIAL CUT BASE DITCH SEE DETAIL AB

FOR -SR4- PROFILE SEE SHTS.74 THRU 75
FOR -L- PROFILE SEE SHTS.52 THRU 53	FOR -SR5- PROFILE SEE SHTS.77 THRU 78

$DATE$ $TIME$
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KAlford

FLATIRON UNITED INFRASTRUCTURE GROUP

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 36 OF 38

HC HC HAND CLEARING (NON-GRUBBING)

100' 0' 100'
GRAPHIC SCALE

NAD 83

SITE 25

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 28)

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 30)

405 FRENCH FAMILY PROPERTIES

406 FRENCH FAMILY PROPERTIES

273B CITY OF LUMBERTON

277 YUK HAN LIU

272 SOUTHERN NATIONAL BANK

278 KENT BALDWIN

279 STEVEN BRANCH

SR4 DAWN DR

SR5 KAHN DR

WELLINGTON DR (CITY OF LUMBERTON)

45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00

HAND CLEARING (NON-GRUBBING)

SPECIAL CUT DITCH SEE DETAIL F

NOTE: ELIMINATE CUT DITCH FROM 53+00 TO 53+80

FILL EXISTING DITCH

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL A1

CL I RIP RAP EST. 26 TON EST. 50 SY GT

SPECIAL CUT DITCH SEE DETAIL AB

FOR -SR4- PROFILE SEE SHTS.74 THRU 75
FOR -L- PROFILE SEE SHTS.52 THRU 53	FOR -SR5- PROFILE SEE SHTS.77 THRU 78

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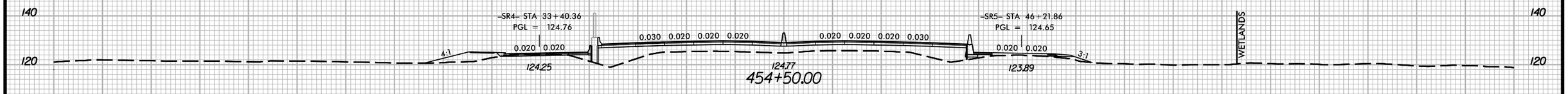
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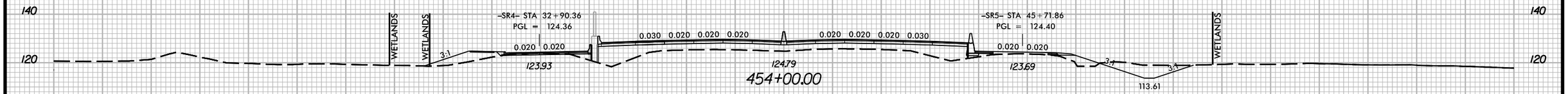
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I-6064/I-5879	X-192

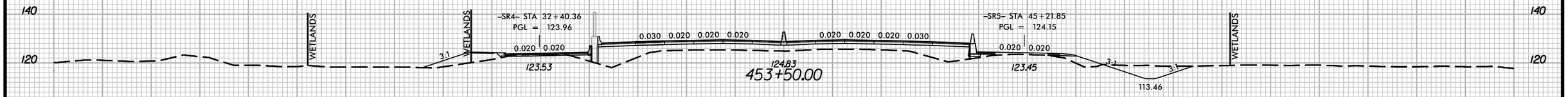
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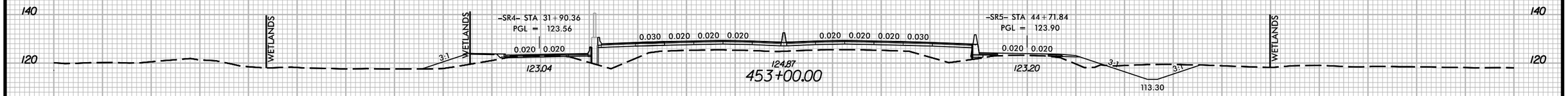
SITE 25

PERMIT DRAWING
SHEET 37 OF 38









–L–

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9/2/2022
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WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac) (See Notes)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
8	-L- 268+00 Lt	Utility (Power)	< 0.01				0.28					
10	-L- 277+72 to 302+68 Lt	Utility (Power)	< 0.01				0.56					
19	-L- 352+70 Rt	Utility (Power)	< 0.01				0.09					
21	-Y4RPC- 14+00 Rt	Utility (Power)	< 0.01				0.07					
22	-Y4- 19+70 Lt	Utility (Power)	< 0.01				0.01					
29	-L- 442+35 Lt	Utility (Power)	< 0.01				0.18					
24	-L- 443+85 to 447+62 Lt	Utility (Power)					0.04					
25	-L- 451+00 Lt	Utility (Power)	< 0.01				0.32					
TOTALS*:			< 0.01				1.55			0	0	0

*Rounded totals are sum of actual impacts

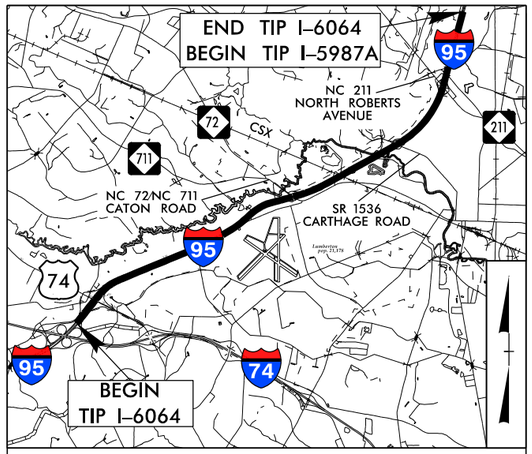
NOTES:
Permanent Fill In Wetlands is due to Power Pole and Guy Wire Anchors Placed in the Wetlands.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/18/2022
Robeson County
I-6064/I-5879
49067.1.2, 49067.1.3 & 53079.2.1
SHEET 38 OF 38

09/08/99

TIP PROJECT: I-6064/I-5879

CONTRACT: C204596



VICINITY MAP
(Not to Scale)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-6064/I-5879	3	

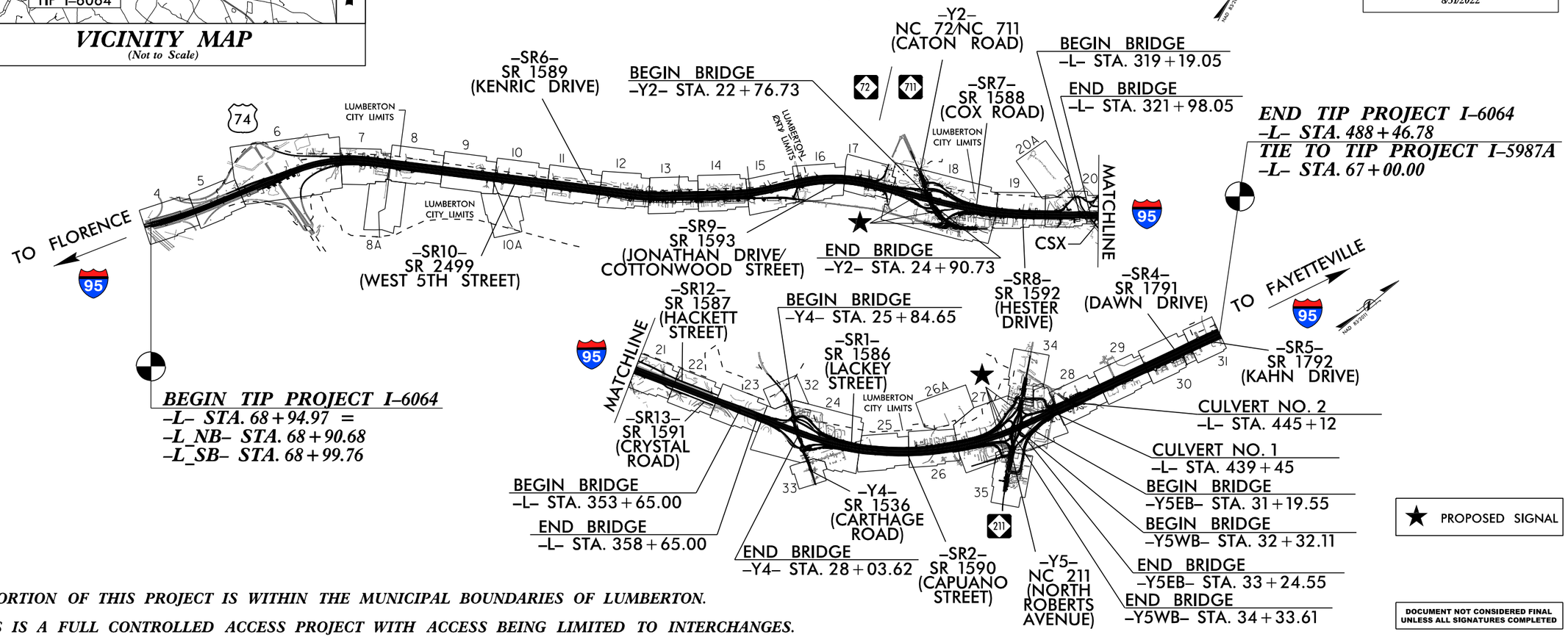
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49067.1.2, 49067.1.3, & 53079.2.1		PE
49067.2.5, 49067.2.6, & 53079.2.1		ROW
49067.2.5, & 49067.2.6		UTIL.
49067.3.1, 49067.3.2, & 49067.3.3		CONST.



SUBMITTAL NO. D-63
FINAL PLANS
8/31/2022

LOCATION: *I-95 WIDENING AND PAVEMENT REHABILITATION FROM I-74 (EXIT 13) TO SOUTH OF US 301 (EXIT 22) AND I-95/SR 1536 INTERCHANGE IMPROVEMENTS*

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, CULVERTS, STRUCTURES PAVEMENT MARKINGS, SIGNING, SIGNALS, ITS, NOISE WALLS, AND RETAINING WALLS*



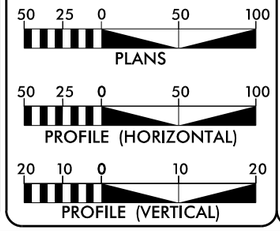
★ PROPOSED SIGNAL

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF LUMBERTON.

THIS IS A FULL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2021 = 71,800
ADT 2041 = 107,800
K = 6.5%
D = 60 %
T = 14% *
V = 75 MPH
* TTST = 11% DUAL = 3%
FUNC CLASS =
INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-6064	=	7.783 MILES
LENGTH STRUCTURE TIP PROJECT I-6064	=	0.162 MILES
TOTAL LENGTH TIP PROJECT I-6064	=	7.945 MILES

Prepared in the Office of:
FLATIRON UNITED INFRASTRUCTURE GROUP
ICE of Carolinas, PLLC
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-622-0333
License #: P-0999

Prepared for:
NCDOT
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
9/21/2021

LETTING DATE:
9/21/2021

BRIAN LUSK, PE
PROJECT ENGINEER

DAN DUFFIELD, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

SIGNATURE: *P.E.*

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

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sarah.ohmann

9/10/2021

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	IB

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line
County Line
Township Line
City Line
Reservation Line
Property Line
Existing Iron Pin (EIP) — EIP
Computed Property Corner
Existing Concrete Monument (ECM) — ECM
Parcel/Sequence Number — 123
Existing Fence Line
Proposed Woven Wire Fence
Proposed Chain Link Fence
Proposed Barbed Wire Fence
Existing Wetland Boundary — WLB
Proposed Wetland Boundary — WLB
Existing Endangered Animal Boundary — EAB
Existing Endangered Plant Boundary — EPB
Existing Historic Property Boundary — HPB
Known Contamination Area: Soil — S
Potential Contamination Area: Soil — S
Known Contamination Area: Water — W
Potential Contamination Area: Water — W
Contaminated Site: Known or Potential — ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap
Sign — S
Well — W
Small Mine
Foundation
Area Outline
Cemetery — †
Building
School
Church
Dam

HYDROLOGY:

Stream or Body of Water
Hydro, Pool or Reservoir
Jurisdictional Stream — JS
Buffer Zone 1 — BZ 1
Buffer Zone 2 — BZ 2
Flow Arrow
Disappearing Stream
Spring
Wetland
Proposed Lateral, Tail, Head Ditch — FLOW
False Sump

RAILROADS:

Standard Gauge — CSX TRANSPORTATION
RR Signal Milepost — MILEPOST 35
Switch — SWITCH
RR Abandoned
RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point
Primary Horiz and Vert Control Point
Secondary Horiz and Vert Control Point
Vertical Benchmark
Existing Right of Way Monument
Proposed Right of Way Monument (Rebar and Cap)
Proposed Right of Way Monument (Concrete)
Existing Permanent Easement Monument
Proposed Permanent Easement Monument (Rebar and Cap)
Existing C/A Monument
Proposed C/A Monument (Rebar and Cap)
Proposed C/A Monument (Concrete)
Existing Right of Way Line
Proposed Right of Way Line — RW
Existing Control of Access Line — CA
Proposed Control of Access Line — CA
Proposed ROW and CA Line — RW CA
Existing Easement Line — E
Proposed Temporary Construction Easement — E
Proposed Temporary Drainage Easement — TDE
Proposed Permanent Drainage Easement — PDE
Proposed Permanent Drainage/Utility Easement — DUE
Proposed Permanent Utility Easement — PUE
Proposed Temporary Utility Easement — TUE
Proposed Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement
Existing Curb
Proposed Slope Stakes Cut — C
Proposed Slope Stakes Fill — F
Proposed Curb Ramp — CR
Existing Metal Guardrail
Proposed Guardrail
Existing Cable Guiderail
Proposed Cable Guiderail
Equality Symbol
Pavement Removal

VEGETATION:

Single Tree
Single Shrub
Hedge

Woods Line
Orchard
Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:
Bridge, Tunnel or Box Culvert — CONC
Bridge Wing Wall, Head Wall and End Wall — CONC WW
MINOR:
Head and End Wall — CONC HW
Pipe Culvert
Footbridge
Drainage Box: Catch Basin, DI or JB — CB
Paved Ditch Gutter
Storm Sewer Manhole — S
Storm Sewer — S

UTILITIES:

** SUE – Subsurface Utility Engineering*
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:
Existing Power Pole
Proposed Power Pole
Existing Joint Use Pole
Proposed Joint Use Pole
Power Manhole — P
Power Line Tower
Power Transformer
U/G Power Cable Hand Hole — HH
H–Frame Pole
U/G Power Line Test Hole (SUE – LOS A)*
U/G Power Line (SUE – LOS B)* — P
U/G Power Line (SUE – LOS C)* — P
U/G Power Line (SUE – LOS D)* — P

TELEPHONE:
Existing Telephone Pole
Proposed Telephone Pole
Telephone Manhole — T
Telephone Pedestal — T
Telephone Cell Tower
U/G Telephone Cable Hand Hole — HH
U/G Telephone Test Hole (SUE – LOS A)*
U/G Telephone Cable (SUE – LOS B)* — T
U/G Telephone Cable (SUE – LOS C)* — T
U/G Telephone Cable (SUE – LOS D)* — T
U/G Telephone Conduit (SUE – LOS B)* — TC
U/G Telephone Conduit (SUE – LOS C)* — TC
U/G Telephone Conduit (SUE – LOS D)* — TC
U/G Fiber Optics Cable (SUE – LOS B)* — T FO
U/G Fiber Optics Cable (SUE – LOS C)* — T FO
U/G Fiber Optics Cable (SUE – LOS D)* — T FO

WATER:
Water Manhole — W
Water Meter
Water Valve
Water Hydrant
U/G Water Line Test Hole (SUE – LOS A)*
U/G Water Line (SUE – LOS B)* — W
U/G Water Line (SUE – LOS C)* — W
U/G Water Line (SUE – LOS D)* — W
Above Ground Water Line — A/G Water

TV:
TV Pedestal — C
TV Tower
U/G TV Cable Hand Hole — HH
U/G TV Test Hole (SUE – LOS A)*
U/G TV Cable (SUE – LOS B)* — TV
U/G TV Cable (SUE – LOS C)* — TV
U/G TV Cable (SUE – LOS D)* — TV
U/G Fiber Optic Cable (SUE – LOS B)* — TV FO
U/G Fiber Optic Cable (SUE – LOS C)* — TV FO
U/G Fiber Optic Cable (SUE – LOS D)* — TV FO

GAS:
Gas Valve
Gas Meter
U/G Gas Line Test Hole (SUE – LOS A)*
U/G Gas Line (SUE – LOS B)* — G
U/G Gas Line (SUE – LOS C)* — G
U/G Gas Line (SUE – LOS D)* — G
Above Ground Gas Line — A/G Gas

SANITARY SEWER:
Sanitary Sewer Manhole
Sanitary Sewer Cleanout
U/G Sanitary Sewer Line — SS
Above Ground Sanitary Sewer — A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE – LOS A)*
SS Force Main Line (SUE – LOS B)* — FSS
SS Force Main Line (SUE – LOS C)* — FSS
SS Force Main Line (SUE – LOS D)* — FSS

MISCELLANEOUS:
Utility Pole
Utility Pole with Base
Utility Located Object
Utility Traffic Signal Box — S
Utility Unknown U/G Line (SUE – LOS B)* — ?UTL
U/G Tank; Water, Gas, Oil
Underground Storage Tank, Approx. Loc. — UST
A/G Tank; Water, Gas, Oil
Geoenvironmental Boring
Abandoned According to Utility Records — AATUR
End of Information — E.O.I.

FLATIRON UNITED INFRASTRUCTURE GROUP
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4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	3P-1
RW SHEET NO.	

PARCEL INDEX

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28	CM Linsay & Son, INC	9	64	Barbara Simpson	13	95	Samin Coropration	15,16
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FLATIRON UNITED INFRASTRUCTURE GROUP
ICE of CAROLINAS, PLLC
ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	3P-2
RW SHEET NO.	

PARCEL INDEX

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132	Colby Restaurant LLC	18	165	The Shafer Company Inc	20	218	Vishal Corporation, A NC Corporation	24
133	Charles McNeill	18	166	West Lumberton Baptist Church	20	219	Venture Properties, LLC	24
135	DD King Family Properties LLC	18	167	Spartan LLC	20,20A	220	Sati, LLC	24
136	Alexander Stanton	18	168	Freeman Advertising Co	20,21	221	Doris E Kirkland	24
137	DD King Family Properties LLC	18	169	Freeman Investments	20,21,22	222	Jay Om, LLC	24
138	The Lumber River Conservancy	18	170	Freeman Advertising Company	21,22	223	JGC Ventures, LLC	24
139	E.M. Britt	18	171	The City of Lumberton	22	224	JGC Ventures, LLC	24
140	D.D. King Family Properties LLC	18,19	172	State Highway and Public Works Commission	22,23	225	Cole TS Lumberton NC, LLC	26
141	Hubert Oxendine	19	174	State Highway And Public Works Commission	22,23	226	CHD Lumberton Hotel, LLC	26,26A
142	John Valade	19	176	The City of Lumberton	23	227	Cracker Barrell Old Country Store, Inc.	26,26A
143	Mariyka Stanislavova	19	178	The Lumber River Conservancy	23,24,32	228	Cracker Barrell Old Country Store, Inc.	26,26A

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	3P-3
RW SHEET NO.	

PARCEL INDEX

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230	I95 Mini Mall Incorporated	26,26A,27	272	Southern National Bank	28,29	332	Samuel Lee Kinlaw	35
240	Ben Chavis	26,27	273	City of Lumberton	28	333	Samuel Lee Kinlaw	35
241	Shrimaruti, LLP	27	274	City of Lumberton	28	334	K.M. Biggs Incorporated	35
242	Navdurga Corporation	27	275	City of Lumberton	28	336	Cook Out - Lumberton Inc	35
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254	William Faber	27	284	Churon Winery LLC	30	405	French Family Properties	29
255	I95 Mini Mall Inc.	27	285	Lumbee River Electric	30	406	French Family Properties	29
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257	S&S of Lumberton, LLC	27	287	State NC Highway Patrol	30,31	408	French Family Properties	30
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259	Harish Amin	27,34	289	Reena Patel	31			
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261	Neeshi Holding Inc	27	293	French Family Properties	31			
262	Bharat Patel	27,34	294	Southeastern Regional Medical Center	31			
263	Situ93 INC	27,28,34	306	Marilyn Teague	33			
264	City of Lumberton	27,28	307	William Horace Herring LF EST Clarence Kelly Herring REM	33			
265	K. M. Biggs, Incorporated & Kahn Drive LLC	27,35	310	Patricia L Rogers, Judy Fay Stead, And Cathy S Adams as Tenants in Common	33			
266	Ambika of Lumberton LLC	27	312	James Raeford Jr. and WF. Peaches Marie Pope	33			
268	Steven Branch	27	316	REF, Inc.	33			
269	City of Lumberton	27,28	323	Monica Vyas	27,35			
270	City of Lumberton	28	324	Planter's Oil Company Inc	35			

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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BEGIN TIP PROJECT I-6064/I-5879
-L- POC STA. 68+94.97

NAD 83/2011

THE CONTRACTOR HAS THE OPTION TO INSTALL ALL WELDED STEEL PIPES BY EITHER STANDARD OR TRENCHLESS METHODS

WOODS

BEGIN CONSTRUCTION -L_SB- STA. 68+99.76

BEGIN CONSTRUCTION -L_NB- STA. 68+90.68

0401 0402 0403 0404 0405 0406 0407 0408 0409 0410 0411 0412 0413 0414 0415 0416 0417 0418

RETAIN

840' LANE DROP

70+00 75+00 80+00

12' PS 4' PS 14' PS

PROP. DOUBLE FACE CABLE GUIDERAIL

PROP. GUARDRAIL

GREU TL-3

CAT-1

REMOVE 2GI

REMOVE 18" RCP

CL B RIP RAP
EST. 3 TONS
EST. 10 SY GF

CLEANOUT 372 LF EXIST PIPE

WLB

MATCHLINE -L- STA. 81+00.00
(SEE SHEET 5)

FOR -L_SB- PROFILE SEE SHT.36

FOR -L_NB- PROFILE SEE SHT.36

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE –L– STA. 81+00.00 (SEE SHEET 4)

MATCHLINE –L– STA. 94+00.00 (SEE SHEET 6)

-L_SB- PT Sta. 86+33.51

-L- CS Sta. 84+70.86

-L- ST Sta. 86+20.86

-L_NB- PT Sta. 84+55.23

-YIRPA- POT Sta. 26+27.68

-YIRPA- PT Sta. 23+50.00

ASSUMED PIPE OUTLET

PIPE SIZE CONFIRMED DURING FIELD VISIT

18" RCP

EXIST. R/W

BM# 1

RETAIN

TV FO

PROP. GUARDRAIL

FLOWABLE FILL

FIELD VISIT SHOWS A BOX DEPTH OF 3' (TOP APPEARS TO BE CORRECT & INV IS INCORRECT)

50' TYP.

2GI REMOVE FS PLUG

2GI-A REMOVE FS PLUG

2GI-D REMOVE FS PLUG

CAT-1

GREU TL-3

12' PS

4' PS

14' PS

10' PS

16' PS

85+00

90+00

25+00

N 38° 01' 12.4" E

N 38° 07' 00.4" E

S 38° 06' 38.4" W

18" RCP-III

24" RCP-III

30" RCP-III

36" RCP-III

42" RCP-III

PROP. DOUBLE FACE CABLE GUIDERAIL

CABLE GUIDERAIL

REMOVE 18" RCP-III

REMOVE 18" RCP

ASSUMED

REMOVE 20' +/-

18" RCP (PER PLANS) NOT FOUND IN THE FIELD?

FIELD VERIFY LOCATION

CL I RIP RAP EST. 15 TONS EST. 30 SY GF

STANDARD 3' BASE DITCH SEE DETAIL E

END CONSTRUCTION -YIRPA- STA. 23+50.00

SHALLOW 2GI IS NEEDED TO AVOID LONG DITCH INTO WETLANDS

SP. DET. 2GI-A

COLLAR

REMOVE 2GI-D FS

RETAIN

EXIST.

BL-37

16064-36

EIP

(3) ALFRED THOMPSON DB 2179 PG 131

(2) MARYLYN BRITT DB 11-1PG 147

(1) NCDOT DB 1062 PG 374

FOR -L_SB- PROFILE SEE SHT.37
FOR -L_NB- PROFILE SEE SHT.37
FOR -YIRPA- PROFILE SEE SHT.54

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE -L- STA. 94+00.00 (SEE SHEET 5)

MATCHLINE -L- STA. 122+00.00 (SEE SHEET 7)

-SR6- PC Sta. 10+93.76

-SR6- POT Sta. 10+00.00

N 82°35'40" E

-SR6- PT Sta. 17+80.42

-SR6- PC Sta. 25+68.82

-SR6- PT Sta. 27+49.76

N 66°19'42" E

-L- SB- PT Sta. 112+00.88 = -L- POS Sta. 112+00.88, 25' LT

-L- SB- PC Sta. 104+34.18

-YIRPA- SRS Sta. 15+49.52

-YIRPA- CS Sta. 14+09.52

-YIRPA- SC Sta. 12+10.00

-YIRPA- CS Sta. 13+90.34

-YIRPA- SC Sta. 16+89.52

-YIRPA- ST Sta. 21+30.34

-YIRPA- ST Sta. 10+00.00 = -L- POT Sta. 106+75.65, 24' LT

-YIRPD- PC Sta. 10+00.00 = -L- POS Sta. 109+81.03, 49' RT

-L- TS Sta. 107+81.40

-L- SC Sta. 110+81.40

-YIRPD- SRS Sta. 14+18.83

-YIRPD- CS Sta. 12+08.83

-YIRPD- SC Sta. 15+58.83

-YIRPD- ST Sta. 19+29.09

-YIRPD- CS Sta. 17+89.09

-YIRPD- POT Sta. 21+26.19

-L NB- POT Sta. 96+25.00 = -L- POT Sta. 96+25.00, 22.16' RT

-SRIO- PCC Sta. 15+98.49

PC Sta. 10+91.16

SRIO WEST 5TH ST.

S 18° 06' 18.7" E

S 18° 09' 04.3" W

1.5% SCP-16

1.5% SCP-18

1.5% SCP-30

1.5% SCP-36

1.5% SCP-42

1.5% SCP-48

1.5% SCP-54

1.5% SCP-60

1.5% SCP-66

1.5% SCP-72

1.5% SCP-78

1.5% SCP-84

1.5% SCP-90

1.5% SCP-96

1.5% SCP-102

1.5% SCP-108

1.5% SCP-114

1.5% SCP-120

1.5% SCP-126

1.5% SCP-132

1.5% SCP-138

1.5% SCP-144

1.5%

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 122+00.00 (SEE SHEET 6)

MATCHLINE -L- STA. 135+00.00 (SEE SHEET 8)

MATCHLINE (SEE SHEET 8A)

-SR6- PC Sta. 28+69.93

-SR6- PT Sta. 36+34.96

-SR6- PC Sta. 38+74.75

-SR10- PCC Sta. 25+78.10

-SR10- PT Sta. 33+67.38

-L- CS Sta. 127+72.34

-L- ST Sta. 130+72.34

SR6 KENRIC DR.

SR10 WEST 5TH. ST.

15 RICHARD KACZAR DB 1995 PG 63

16 RICHARD KACZAR DB 1995 PG 63

17 BILLY SMALL DB 415 PG 380

18 THE BOARD OF EDUCATION FOR THE PUBLIC SCHOOLS OF ROBESON COUNTY DB 832 PG 480

19 ROBESON COUNTY DB 497 PG 76 EXCEPTION DB 832 PG 480

10 MGN RENTALS, LLC DB 1922 PG 399 MB 48 PG 141

11 ACME ELECTRIC, LLC DB 870 PG 587

12 SOUTHERN BELL TELEPHONE & TELEGRAPH CO. DB 525 PG 334

13 CITY OF LUMBERTON DB 1149 PG 736

14 BHDNC,LLC DB 1855 PG 678 MB 21PG 114

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.				
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.40	FOR -SR6- PROFILE SEE SHT.80	FOR -SR10- PROFILE SEE SHT.90	

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE –L– STA. 135+00.00
(SEE SHEET 7)

MATCHLINE –L– STA. 149+00.00
(SEE SHEET 9)

19 ROBESON COUNTY
DB 497 PG 76
EXCEPTION
DB 832 PG 480

20 CHARLES GILL McNEILL
DB 922 PG 171

21 PEMBERTON PLACE, INC
DB 1527 PG 296

FLASHBOARD RISER

-SR6- PT Sta. 41+51.79

CONC LIFT STATION

REG. STATION

+20.00 70.00 LT
+65.00 68.88 LT 86.00 LT
+73.00 68.00 LT 90.00 LT
TDE
+00.00 68.00 LT
SP. LAT. 2' BASE DITCH SEE DETAIL A
+50.00 60.00 LT 68.00 LT
SP. LAT. 2' BASE DITCH SEE DETAIL A
+50.00 60.00 LT 68.00 LT
SP. LAT. 2' BASE DITCH SEE DETAIL A

DUE PUE PDE HW EXIST. R/W EIP FO SOIL GR

24" DR 18" REMOVE 45+00 CITY OF LUMBERTON 50+00 55+00

N 67° 44' 39.8" E
SR6 KENRIC DR.

8' PS (MIN) 14' PS 48" 24" 03 02

135+00 26' MED 140+00 145+00 -L- I-95 26' MED

36" RCP-IV 15" RCP-III 18" RCP-III 15" RCP-IV 18" RCP-IV 24" RCP-IV 30" RCP-IV

PLUG FLOWABLE FILL REMOVE DI PROP. MEDIAN BARRIER DOUBLE FACED MTL BIFURCATED BARRIER

TB 2GI

BL-49 BL-50

SR10 WEST 5TH ST.
N 67° 44' 39.8" E

40+00 24" DR 38" DR 24" REMOVE 42" DR 45+00 50+00

SP. DET. 2GI-A
CL B RIP RAP EST. 3 TONS EST. 10 SY GF
REMOVE 8' 12" RCP
SP. LAT. 5' BASE DITCH SEE DETAIL B
30' PERMANENT UTILITY EASEMENT DB 706 PG 520
30' PERMANENT UTILITY EASEMENT DB 706 PG 521
CL B RIP RAP EST. 3 TONS EST. 10 SY GF
SP. LAT. 2' BASE DITCH SEE DETAIL A
CL B RIP RAP EST. 8 TONS EST. 21 SY GF
+00.00 50.00 RT
REPEATER
SP. LAT. 2' BASE DITCH SEE DETAIL A

+10.00 80.00 RT 85.00 RT
+18.00 80.00 RT 90.00 RT
+75.00 85.00 RT
RETAIN AND ADJUST AS NECESSARY
+74.99 90.00 RT
+50.00 85.00 RT

22 XMC PROPERTIES, LLC
DB 1474 PG 854

23 NCDOT
DB 11-C PG 150

24 WENDY DAWN BRITT SHOOK
DB 2066 PG 892

25 CAPE FEAR CONSTRUCTION COMPANY, INC
DB 470 PG 204

26 CAPE FEAR CONSTRUCTION COMPANY, INC
DB 470 PG 124

27 MAYFIELD LOOSE LEAF FLOORS, INC
DB 977 PG 613

14 BHDNC,LLC
DB 1855 PG 678
MB 21PG 114

BM*5

CAPE FEAR CONSTRUCTION COMPANY, INC
DB 470 PG 204

MATCHLINE
(SEE SHEET 8A)

FOR -L- PROFILE SEE SHT.40

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE. FOR -SR6- PROFILE SEE SHTS.80 THRU 81

SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE. FOR -SR10- PROFILE SEE SHTS.90 THRU 91

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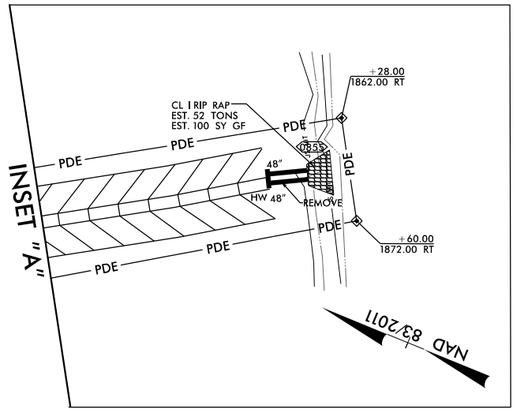
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	8A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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MATCHLINE (SEE SHEETS 7 AND 8)

22
XMC PROPERTIES, LLC
DB 1474 PG 854

2GI

+74.52
317.90 RT

+48.71
320.82 RT

RETAIN EX. DITCH AND ADJUST AS NECESSARY

D85A
CL I RIP RAP
EST. 30 TONS
EST. 60 SY GF

+73.00
1095.00 RT

+45.00
1030.00 RT

+74.11
1069.699 RT

+72.62
1076.19 RT

CLASS B RIP RAP
EST. 30 TONS
EST. 60 SY GF

+37.28
1133.37 RT

+20.00
1195.00 RT

STD. 8' BASE DITCH
SEE DETAIL E

+75.00
1375.00 RT

+10.00
1605.00 RT

SEE INSET "A"

14
BHDNC,LLC
DB 1855 PG 678
MB 21PG 114

PDE — 36" — 2GI

R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE -L- STA. 149+00.00
(SEE SHEET 8)

MATCHLINE -L- STA. 163+00.00
(SEE SHEET 10)

21 PEMBERTON PLACE, INC
DB 1527 PG 296

32 LEE ANN MUSSELWHITE AND
MICHAEL MUSSELWHITE
DB 1039 PG 138

33 HARTMAN PROPERTIES, LLC
DB 1272 PG 811

27 MAYFIELD LOOSE LEAF FLOORS, INC
DB 977 PG 613

28 C.M. LINSAY & SON, INC
DB 504 PG 327

29 JAMES ALAN SMITH
DB 735 PG 660

30 JAMES ALAN SMITH
DB 451 PG 216

CITY OF LUMBERTON

EXIST. R/W

+40.00 69.25 LT 98.00 LT
+04.00 69.50 LT 100.00 LT
+00.00 144.00 LT
+45.00 125.00 LT
+27.00 70.00 LT 85.00 LT
+47.00 70.00 LT 85.00 LT
+22.00 140.00 LT
+40.00 70.00 LT
CONC POSTS
CONC
ISMTL BUS
24" C&G
BST

SP. LAT. 2' BASE DITCH SEE DETAIL A
SP. LAT. 5' BASE DITCH SEE DETAIL B
REMOVE
46' DR
FLASHBOARD RISERS
HW
PLUG
FLOWABLE FILL
REMOVE HW
REMOVE DI

60+00 65+00 150+00 155+00 160+00 55+00

N 67° 44' 39.8" E
SR6 KENRIC DR.
SR10 WEST 5TH ST.

8" PS (MIN) 14" PS 48" RCP-IV 26" MED DOUBLE FACED MTL

15" RCP-III 18" RCP-III 18" RCP-IV 24" RCP-IV

BIFURCATED BARRIER
PROP. MEDIAN BARRIER

TB 2GI

16064-5I

PUE DUE TDE

CL B RIP RAP
EST. 3 TONS
EST. 10 SY GF

CL B RIP RAP
EST. 5 TONS
EST. 14 SY GF

CL I RIP RAP
EST. 52 TONS
EST. 100 SY GF

RETAIN AND ADJUST

STD. 8' BASE DITCH SEE DETAIL E

+83.00 80.00 RT 90.00 RT
+56.00 80.00 RT 89.00 RT
+00.00 50.00 RT
+04.00 85.00 RT

ISBKD
HTR
LP
GR

30' PERMANENT UTILITY EASEMENT DB 977 PG 613
30' PERMANENT UTILITY EASEMENT DB 709 PG 502

	FOR -L- PROFILE SEE SHT.41
NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.81
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR10- PROFILE SEE SHT.91

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE -L- STA. 163+00.00 (SEE SHEET 9)

MATCHLINE -L- STA. 177+00.00 (SEE SHEET 11)

34 HARTMAN PROPERTIES, LLC DB 1431 PG 883

35 PAW DEVELOPERS, LLC DB 1211 PG 172 DB 1257 PG 281

33 HARTMAN PROPERTIES, LLC DB 1272 PG 811

36 HARTMAN PROPERTIES, LLC DB 1431 PG 883

38 LOUIS PERKINSON DB 1418 PG 455

CITY OF LUMBERTON

N 67° 44' 39.8" E SR6 KENRIC DR.

-L- I-95

N 67° 44' 39.8" E SR10 WEST 5TH ST.

BIFURCATED BARRIER

PROP. MEDIAN BARRIER

DOUBLE FACED MTL

EXIST. R/W

SP. LAT. 5' BASE DITCH SEE DETAIL B

SP. LAT. 2' BASE DITCH SEE DETAIL A

STD. 8' BASE DITCH SEE DETAIL E

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

DO NOT DISTURB

30' PERMANENT UTILITY EASEMENT DB 710 PG 280-281

DUE PROCESS STABLE TRADING COMPANY, LLC DB 1921 PG 301

30 JAMES ALAN SMITH DB 451 PG 216

37 GRIFFIN RESOURCES, LLC DB 1651 PG 569

40

MATCHLINE (SEE SHEET 10A)

FOR -L- PROFILE SEE SHT. 41	
NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHTS. 81 THRU 82
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR10- PROFILE SEE SHTS. 91 THRU 92

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sarahmann

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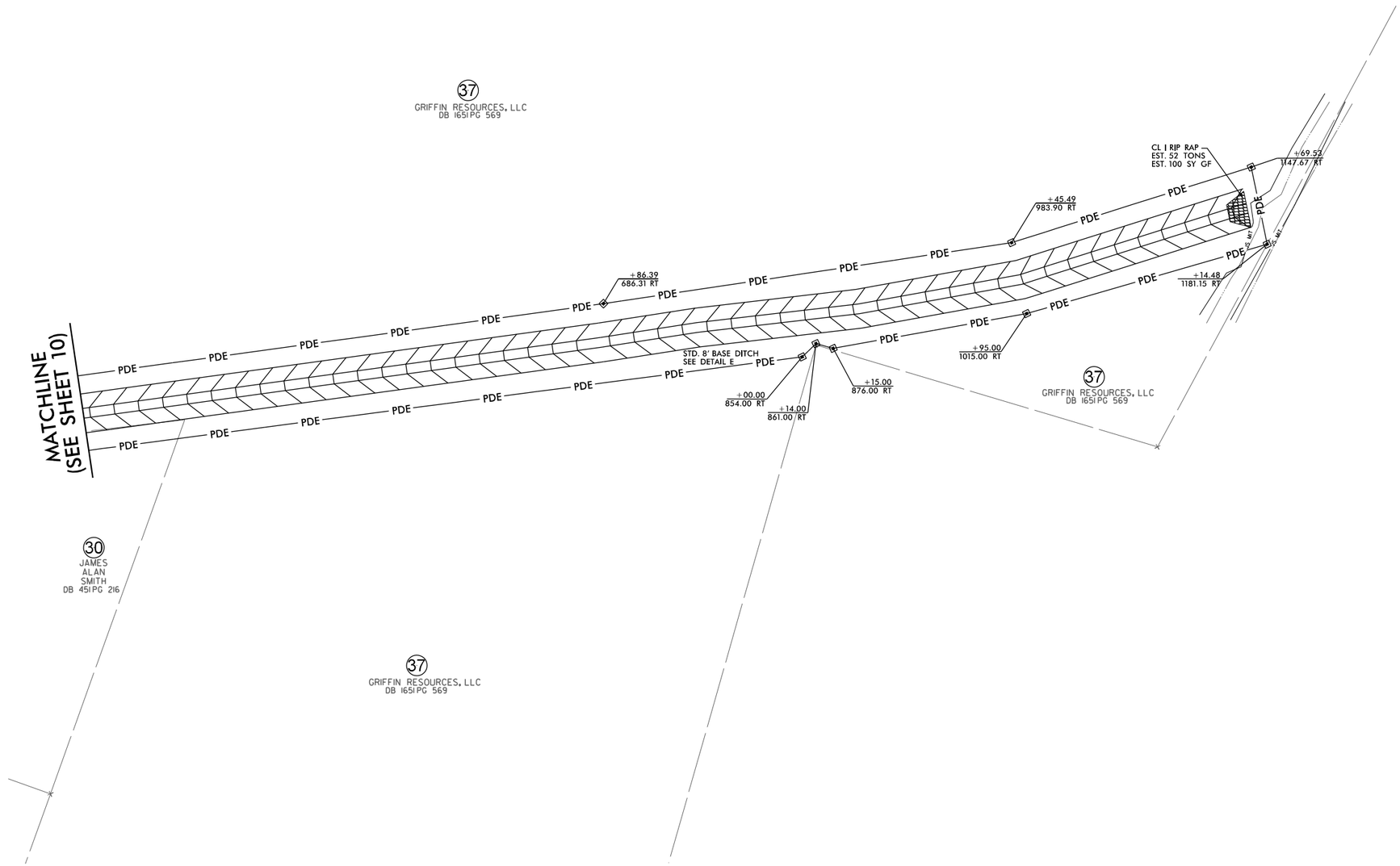
ICE of CAROLINAS, PLLC

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Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	10A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011



R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 177+00.00 (SEE SHEET 10)

MATCHLINE -L- STA. 191+00.00 (SEE SHEET 12)

38 LOUIS PERKINSON
DB 1418 PG 455

39 UNKNOWN OWNER

41 PAW DEVELOPERS, LLC
DB 1211 PG 172
DB 1257 PG 281

CITY OF LUMBERTON

EXIST.R/W

SOIL

CEMETERY HEADSTONES

+00.00 EXIST. R/W 70.00 LT

70.00 EXIST. R/W 70.00 LT 85.00 LT

+88.00 85.00 LT 95.00 LT

+08.00 85.00 LT 95.00 LT

+76.93 EXIST. R/W

CL B RIP RAP EST. 8 TONS EST. 21 SY GF

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. LAT. 5' BASE DITCH SEE DETAIL B

DUE

AUE

GRADE TO DRAIN

C16' DR

85+00

90+00

95+00

30" RCP-III

N 67° 44' 39.8" E
SR6 KENRIC DR.

8' PS (MIN)

14' PS

PLUG

15" RCP-III

BIFURCATED BARRIER

TB 2GI

24" RCP-III

180+00

185+00

190+00

FLOWABLE FILL

26' MED

REMOVE DI

PROP. MEDIAN BARRIER

DOUBLE FACED MTL

18" RCP-III

BL-54

BL-55

N 67° 44' 39.8" E
SR10 WEST 5TH ST.

24" RCP-V

REMOVE

24' DR 15"

38' DR

REBAR

REPEATER

PPES

PUE

PERMANENT UTILITY EASEMENT DB 643 PG 34

PERMANENT UTILITY EASEMENT PB 30 PG 06

SP. LAT. 2' BASE DITCH SEE DETAIL A

CL B RIP RAP EST. 5 TONS EST. 14 SY GF

24" C&G

BST

ISMTL BUS

40 DUE PROCESS STABLE TRADING COMPANY, LLC
DB 1921 PG 301

42 R.L. CURRIE FAMILY PROPERTIES, LLC
DB 1143 PG 276

+09.11 EXIST. R/W

+01.40 EXIST. R/W

SM-7

ISFD

44 CLEMENTINE THOMPSON-McCORMICK AND HAYWOOD McCORMICK
DB 1852 PG 317

	FOR -L- PROFILE SEE SHT.42
NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.82
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR10- PROFILE SEE SHT.92

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 191+00.00 (SEE SHEET 11)

MATCHLINE -L- STA. 204+00.00 (SEE SHEET 13)

41 PAW DEVELOPERS, LLC
DB 1211 PG 172
DB 1257 PG 281

55 FOUR ACES LEASING, LLC
DB 2134 PG 855

56 FOUR ACES LEASING, LLC
DB 2134 PG 855

57 DILLON KEITH SANDERSON
DB 2065 PG 587

59 I. S. LOCKLEAR HEIRS
69-E-279

-L- TS Sta. 198+85.73

-SR6- PC Sta. 105+80.79

-L- SC Sta. 200+85.73

-L- I-95

N 67° 44' 39.8" E SR6 KENRIC DR.

SR10 WEST 5TH ST.

-SR10- PC Sta. 97+37.21

-SR10- PRC Sta. 98+75.97

-SR10- PT Sta. 100+14.73

-SR10- PC Sta. 103+29.99

BEGIN COMBO NOISE/RETAINING WALL #2
L= 197'+/- @ 0.5' RT

CONCRETE BARRIER TRANSITION SECTION 25' (MAX)

44 CLEMENTINE THOMPSON-MCCORMICK AND HAYWOOD McCORMICK
DB 1852 PG 317

45 FLOSSIE GERALD
DB 1451 PG 501

46

47 K.M. BIGGS, INC
DB 17-X PG 174

48 UNKNOWN OWNER

49 DARLENE H. RANSOM
DB 1124 PG 307
MB 7 PG 88

50 GLENN AND BETTY LOCKLEAR
DB 1849 PG 175
MB 7 PG 119

51 JAMES H. ADAMS, JR
DB 1504 PG 250
MB 7 PG 119

52 JAMES H. ADAMS, JR
DB 1504 PG 250
MB 7 PG 88

53 ROBERT TROY THOMPSON
DB 860 PG 631
MB 7 PG 88

54 JAMES H. ADAMS, JR
DB 1707 PG 386
MB 7 PG 88

	FOR -L- PROFILE SEE SHT.42
NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHTS.82 THRU 83
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR10- PROFILE SEE SHTS.92 THRU 93

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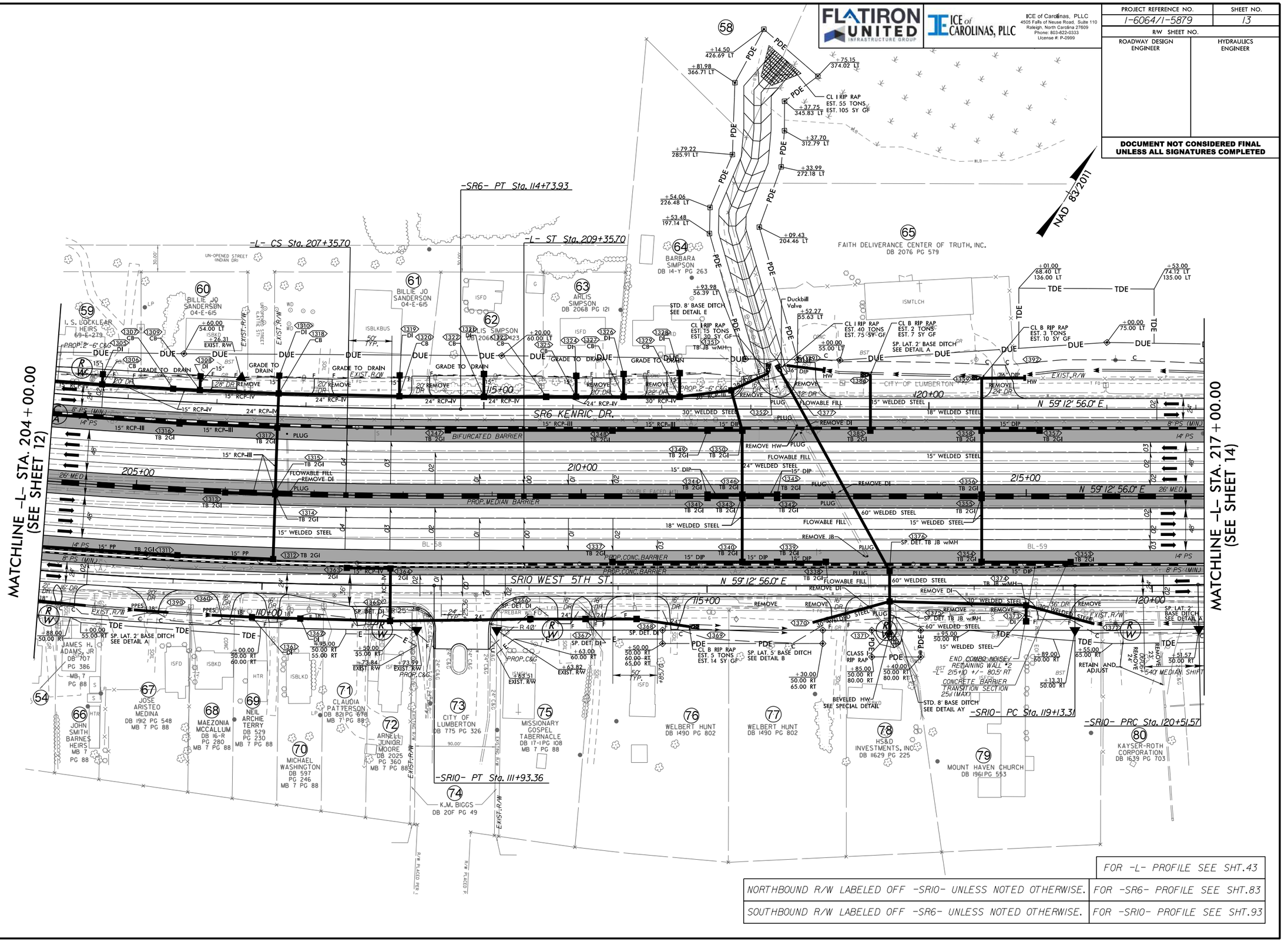
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.43
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.83
	FOR -SR10- PROFILE SEE SHT.93

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 217+00.00 (SEE SHEET 13)

MATCHLINE -L- STA. 230+00.00 (SEE SHEET 15)

65 FAITH DELIVERANCE CENTER OF TRUTH, INC. DB 2076 PG 579

81 C.M. LINDSAY & SONS, INC. DB 854 PG 808

82 STATE OF NC DB 1134 PG 70

83 C.M. LINDSAY & SONS, INC. DB 580 PG 401

84 HAROLD ANDREWS DB 1688 PG 884

85 THE TOP TEAM GROUP, LLC DB 2044 PG 873 MB 37 PG 150

86 JEFFREY D. JONES DB 2040 PG 183 MB 37 PG 150

80 KAYSER-ROTH CORPORATION DB 1639 PG 703

-L- TS Sta. 224+14.77

-SR6- PC Sta. 130+95.42

-L- SC Sta. 226+64.77

-SRIO- PT Sta. 121+84.76

-SRIO- PC Sta. 129+92.37

-SRIO- PT Sta. 131+93.80

SR6 KENRIC DR.

SRIO WEST 5TH ST.

-L- I-95

CITY OF LUMBERTON

N 59° 12' 56.0" E

N 59° 10' 30.9" E

N 59° 45' 08.4" E

125+00

130+00

135+00

220+00

225+00

230+00

540' MEDIAN SHIFT

100' MEDIAN TAPER

BIFURCATED BARRIER

PROP. MEDIAN BARRIER

PROP. CONC. BARRIER

DOUBLE FACED MBT

BL-60

RETAIN

END BIFURCATED BARRIER BEGIN CANTILEVERED CIP RETAINING WALL #3 -L- 226+00 75' RT

SP. LAT. 2' BASE DITCH SEE DETAIL A

SP. LAT. 2' BASE DITCH SEE DETAIL A MONOLITHIC CONC

RETAIN AND ADJUST

SP. DET. TB 2GI

FLOWABLE FILL

REMOVE

REMOVE HW

REMOVE DI

REMOVE 14'

REMOVE 21'

GRADE TO DRAIN

JB w/MH

FOR -L- PROFILE SEE SHT.43	
NORTHBOUND R/W LABELED OFF -SRIO- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHTS.83 THRU 84
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SRIO- PROFILE SEE SHTS.93 THRU 94

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEE INSET "A"

INSET "A"

NAD 83/2011

MATCHLINE -L- STA. 230+00.00 (SEE SHEET 14)

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 16)

-SR6- PT Sta. 142+67.70

-L- ST Sta. 237+10.69

SR6 KENRIC DR.

SR10 WEST 15TH ST.

SR9 JONATHAN DRIVE

-SR10- PC Sta. 136+93.66

-SR10- PT Sta. 138+45.61

-SR10- PC Sta. 141+90.90

-SR10- PT Sta. 144+04.33

-SR9- POT Sta. 10+00.00 = -SR10- POT Sta.145+64.95

END CONSTRUCTION -SR10- STA. 146+50.00

NORTHBOUND R/W LABELED OFF -SR10- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44	FOR -SR10- PROFILE SEE SHT.94
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR6- PROFILE SEE SHT.84	FOR -SR9- PROFILE SEE SHT.89

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 243+00.00 (SEE SHEET 15)

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 17)

-SR6- PC Sta. 150+30.43

-SR9- PT Sta. 13+56.62

-SR9- PC Sta. 14+89.46

-L- TS Sta. 243+32.87

-SR9- PC Sta. 12+89.58

-SR10- POT Sta. 148+62.33

-L- SC Sta. 246+32.87

-L- I-95

SR9 JONATHAN DRIVE

BIFURCATED BARRIER

PROP. CONC. BARRIER

PROP. MEDIAN BARRIER

END BIFURCATED BARRIER BEGIN CANTILEVERED CIP RETAINING WALL #5 -L- 246+00 75' LT

100 CHARLES MCNEILL DB 516 PG 80

90 AL-WHIT LLC DB 1317 PG 21 MB 37 PG 150

101 CHARLES MCNEILL WILL 06-E 596

96 CHARLES MCNEILL WILL 06-E 596 DB 1333 PG 556

95 SAMIN CORORATION DB 1680 PG 550

93 HEAVARD OXENDINE DB 413 PG 388

98 CLAYBOURN WALTERS DB 814 PG 580

99 MACK WHITE INVESTMENTS INC DB 1076 PG 794 MB 38 PG 8

NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.44
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.84
	FOR -SR9- PROFILE SEE SHT.89

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 256+00.00 (SEE SHEET 16)

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 18)

END CONSTRUCTION -SR6- STA. 175+34.46

-SR6- PT Sta. 175+28.68

-SR6- PRC Sta. 174+08.46

-SR6- PRC Sta. 169+67.52

END CANTILEVERED CIP RETAINING WALL #5
BEGIN BIFURCATED BARRIER
-L- 262+50.87' LT

END BIFURCATED BARRIER
-L- 264+23.75' LT

-SR6- PC Sta. 166+42.04

-SR6- PT Sta. 164+90.29

-Y2RPB- ST Sta. 10+00.00 = -L- POT Sta. 265+99.16' LT

-Y2RPB- SC Sta. 11+50.00

-L- ST Sta. 264+23.75

-SR9- PC Sta. 35+48.57

-SR9- PT Sta. 32+02.43

-SR9- PT Sta. 37+85.34

-L- CS Sta. 261+23.75

-Y2RPC- POT Sta. 10+00.00 = -L- POT Sta. 267+70.62.6' RT Δ = 4°07'00"

END CONSTRUCTION -SR9- STA. 37+90.00

SR6 KENRIC DR.

SR9 JONATHAN DRIVE

N 5°11'24.2" W

N 68°48'39.1" E

N 74°55'47.1" E

S 37°14'29.1" E

NAD 83/2011

101 CHARLES MCNEILL WILL 06-E 596

102 THE LUMBER RIVER CONSERVANCY DB 1106 PG 841

99 MACK WHITE INVESTMENTS INC DB 1076 PG 794 MB 38 PG 8

103 MACK WHITE INVESTMENTS INC DB 1076 PG 794 MB 38 PG 8

104 MACK WHITE INVESTMENTS INC DB 1076 PG 794 MB 38 PG 8

105 CB OF EDENTON LLC DB 2063 PG 91 MB 38 PG 8

106 JHS ROBESON PROPERTIES LLC DB 2001 PG 814

107 OUTDOOR REALTY LLC DB 1528 PG 717

108 JEANNETTE MARTIN DB 9R PG 260

109 HEIRS OF S.B. ATKINSON DB 106 PG 603

111 THE CITY OF LUMBERTON DB 1363 PG 82

FOR -SR6- PROFILE SEE SHTS.84 THRU 85		
NORTHBOUND R/W LABELED OFF -SR9- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.45	FOR -Y2RPB- PROFILE SEE SHT.57
SOUTHBOUND R/W LABELED OFF -SR6- UNLESS NOTED OTHERWISE.	FOR -SR9- PROFILE SEE SHT.89	FOR -Y2RPC- PROFILE SEE SHT.57

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Corbin Jackson

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 269+00.00 (SEE SHEET 17)

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 19)

-Y2- CATON ROAD

-SR7- RESTER FARM

-SR8- RESTER FARM

END CONSTRUCTION -Y2- STA. 39+85.00

BEGIN CONSTRUCTION -SR8- STA.10+70.00

BEGIN CONSTRUCTION -SR10A- STA.12+50.00

BEGIN APPROACH SLAB -Y2- STA.22+33.00

BEGIN BRIDGE -Y2- STA.22+67.73

END BRIDGE -Y2- STA.24+90.73

END APPROACH SLAB -Y2- STA.25+19.81

A

B

C

D

CALLOUT LEGEND	
A	-Y2- PC Sta.17+60.62
B	-Y2RPA- POT Sta. 25+46.16 = -Y2- POC Sta.21+12.99
C	-Y2RPB- POT Sta. 21+71.50 = -Y2- POC Sta.21+23.40
D	-Y2- PT Sta. 26+63.20
E	-SR10A- PT Sta. 14+86.15

★ PROPOSED SIGNAL

PAVEMENT REMOVAL

FOR INTERSECTION DETAILS SEE SHT. 28-3	FOR -L- PROFILE SEE SHTS.45 THRU 46
FOR -SR7- PROFILE SEE SHTS.85 THRU 86	FOR -Y2RPA- PROFILE SEE SHT.56
FOR -SR8- PROFILE SEE SHTS.87-88	FOR -Y2RPB- PROFILE SEE SHT.57
FOR -Y2- PROFILE SEE SHT.55	FOR -Y2RPC- PROFILE SEE SHTS.57
FOR -SR10A- PROFILE SEE SHT.94	FOR -Y2RPD- PROFILE SEE SHT.58

GRAPHIC SCALE
50 25 0 50 100
PLANS

8/31/2022 M:\1605\...\sheets\...dgn
...use by others...

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

-SR7- PCC Sta. 30+83.86

MATCHLINE -L- STA. 297+00.00 (SEE SHEET 18)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 20)

-SR7- PT Sta. 42+22.97

-L- ST Sta. 309+39.71

-L- CS Sta. 307+89.71

END BIFURCATED BARRIER
BEGIN CANTILEVERED CIP RETAINING WALL #7A
-L- 304+00 75' LT

SR7 COX ROAD

SR8 HESTER ROAD
N 64°28'39.6" E

PROP. CONC. BARRIER

PROP. MEDIAN BARRIER

-SR8- PRC Sta. 21+93.21

-SR8- PC 24+44.31

-SR8- PT 23+30.67

-SR8- PT 30+92.02

140 D.D. KING FAMILY PROPERTIES LLC
DB 2127 PG 274
MB 1PG 56

141 HUBERT OXENDINE
DB 1056 PG 872

142 JOHN VALADE
DB 1516 PG 480

143 MARIYKA STANISLAVOVA
DB 806 PG 804

144 THE SCHAFER COMPANY INC
DB 821PG 276

145 JOHN VALADE
DB 1516 PG 480

146 MILDRED HUNT
DB 1065 PG 533

147 K P FOODS INC
DB 1119 PG 557

148 MARY LOUISE STEPHENS
DB 1812 PG 409
MB 5 PG 75

149 MARY LOUISE STEPHENS
DB 1812 PG 412
MB 5 PG 75

150 HORACE HARDIN
DB 560 PG 363
DB 2157 PG 701

151 O'REILLY AUTOMOTIVE STORES INC
DB 2122 PG 643

152 RALPH LOCKLEAR
WILL I8-E PG 331

153 K M BIGGS INCORPORATED
DB 2072 PG 842
MB 41PG 3

154 HEAVARD OXENDINE
DB 1232 PG 331

NORTHBOUND R/W LABELED OFF -SR8- UNLESS NOTED OTHERWISE. | FOR -SR8- PROFILE SEE SHTS.87 THRU 88

SOUTHBOUND R/W LABELED OFF -SR7- UNLESS NOTED OTHERWISE. | FOR -L- PROFILE SEE SHT.46 | FOR -SR7- PROFILE SEE SHT.86

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-SR7- POT Sta. 60+42.34
END CONSTRUCTION

INSET "A"
-SR7- STA. 59+00.00

-SR7- PT Sta. 59+20.47

MATCHLINE (SEE SHEET 20A)

MATCHLINE -L- STA. 310+00.00 (SEE SHEET 19)

MATCHLINE -L- STA. 324+00.00 (SEE SHEET 21)

SEE INSET "A" -SR7- STA. 59+00.00

SR 1588 (COX ROAD)
DOT CROSSING # 631023Y
MILEPOST SE 295.04
EXISTING CROSSING TO BE REPLACED W/ RUBBER RAIL SEAL & ASPHALT BY CSX

SR1 COX ROAD

SR8 HESTER ROAD

SR8A

SR12 HACKETT STREET

PARCEL 161
TOTAL TAKE W/ PROPOSED ROW

CITY OF LUMBERTON FLOODGATE PROJECT (BY OTHERS)

PROPOSED DRAINAGE INTERIOR TO AND AROUND FLOODGATE TO BE PROVIDED BY OTHERS

FUTURE MAINTENANCE ROADS

CALLOUT LEGEND	
A	-SR7- PC Sta. 46+48.52
B	-SR7- PC Sta. 51+96.77
C	-SR7- PRC Sta. 55+44.30
D	-SRI2- POT Sta. 10+00.00 = -SR7- POC Sta. 57+31.96
E	-SRI2- PC Sta. 10+23.77
F	-SR8A- POT Sta. 10+00.00 = -SR8- POC Sta. 36+76.30
G	-SR8A- POT Sta. 13+86.95

PAVEMENT REMOVAL | FOR -L- PROFILE SEE SHT.47 | FOR -SR8A- PROFILE SEE SHT.88 | FOR -SR8- PROFILE SEE SHT.88 | FOR -SRI2- PROFILE SEE SHT.95

FOR -SRI3- PROFILE SEE SHT.96

FOR -SR7- PROFILE SEES SHTS.86 THRU 87

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Brandon Lusk

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	20A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

SPARTAN LLC
DB 1637 PG 232

167

EXIST. R/W

-SR07-
+25.64
1538.24 LT

-SR07-
+81.70
1414.13 LT

-SR07-
+12.44
1035.60 LT

-SR07-
+03.42
726.25 LT

-SR07-
+49.26
296.39 LT

EXISTING R/W

CL I RIP RAP
EST. 44 TONS
EST. 88 SY GF

-SR07-
+22.32
1510.91 LT

-SR07-
+77.98
1376.97 LT

-SR07-
+45.46
925.38 LT

409

ALEX STANTON
DB 2136 PG 13

STD. 5' BASE DITCH
SEE DETAIL E

-SR07-
+38.84
720.20 LT

-SR07-
+65.00
315.00 LT

160

OMNISOURCE SOUTHEAST LLC
DB 1994 PG 786

MATCHLINE
(SEE SHEET 20)

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corbin.jackson

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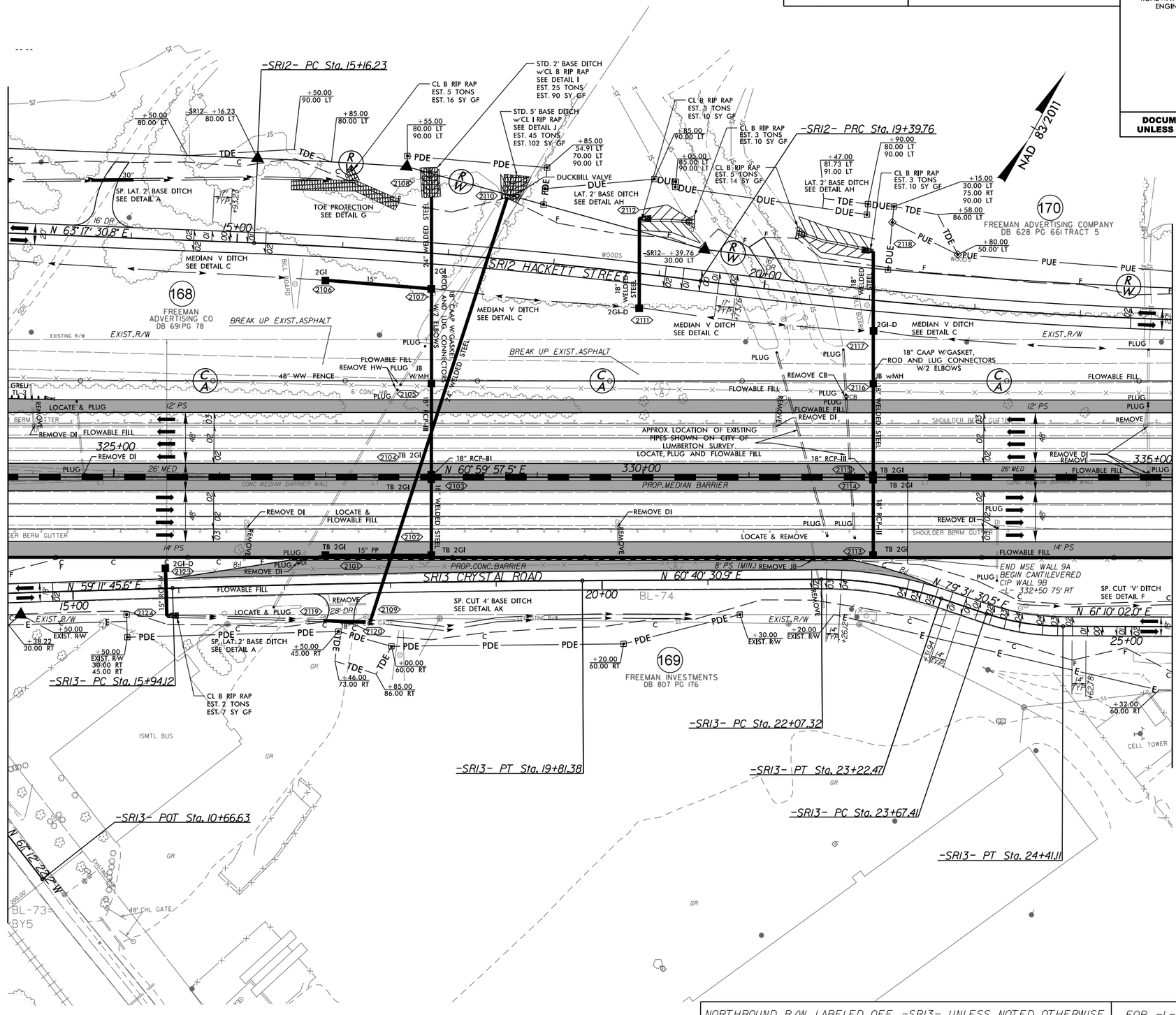
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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.		FOR -L- PROFILE SEE SHT.47
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95	FOR -SRI3- PROFILE SEE SHT.96

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Gordon Jackson

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE –L– STA. 335+00.00 (SEE SHEET 21)

MATCHLINE –L– STA. 347+00.00 (SEE SHEET 23)

NAD 83/2011

171 THE CITY OF LUMBERTON DB 646 PG 175

170 FREEMAN ADVERTISING COMPANY DB 628 PG 661 TRACT 5

172 STATE HIGHWAY AND PUBLIC WORKS COMMISSION DB IIV PG 67

169 FREEMAN INVESTMENTS DB 807 PG 176

174 STATE HIGHWAY AND PUBLIC WORKS COMMISSION DB IIV PG 67

175 CITY OF LUMBERTON DB I5S PG 239

-SRI2- PT Sta. 25+54.15

-SRI2- POT Sta. 35+72.16

-SRI3- POT Sta. 37+03.31

END CONSTRUCTION -SRI2- STA. 34+35.00

END CONSTRUCTION -SRI3- STA. 30+20.00

25+00 N 60° 59' 57.5" E SRI2 HACKETT STREET 30+00

N 61° 10' 02.0" E SRI3 CRYSTAL ROAD 35+00

-L- 335+00 340+00 345+00 N 60° 59' 57.5" E -L- I-95

BREAK UP EXIST. ASPHALT

PROP. MEDIAN BARRIER

CONC. MEDIAN BARRIER WALL

BIFURCATED BARRIER

END CANTILEVERED CIP WALL 9B BEGIN BIFURCATED BARRIER -L- 335+00 75' RT

I95 NBL VARIABLE WIDTH BST

I95 SBL VARIABLE WIDTH BST

NORTHBOUND R/W LABELED OFF -SRI3- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.48
SOUTHBOUND R/W LABELED OFF -SRI2- UNLESS NOTED OTHERWISE.	FOR -SRI2- PROFILE SEE SHT.95 / FOR -SRI3- PROFILE SEE SHT.96

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 347+00.00 (SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 24)

173 THE CITY OF LUMBERTON DB 8Z PG 501

176 THE CITY OF LUMBERTON DB 8K PG 11

172 STATE HIGHWAY AND PUBLIC WORKS COMMISSION DB IIV PG 67

177 THE LUMBER RIVER CONSERVANCY DB 815 PG 182

178 THE LUMBER RIVER CONSERVANCY DB 944 PG 475 MB 20 PG 67

179 JAMES N. BRITT III WB 13 PG 180 DB 721 PG 286 TRACT 21

174 STATE HIGHWAY AND PUBLIC WORKS COMMISSION DB IIV PG 67

181 THE LUMBER RIVER CONSERVANCY DB 815 PG 182

182 THE LUMBER RIVER CONSERVANCY DB 944 PG 475 MB 20 PG 67

183 JAMES N. BRITT III WB 13 PG 180 PART OF DB 101 PG 98

175 CITY OF LUMBERTON DB 155 PG 239

BEGIN APPROACH SLAB -L- STA. 353+41.16

-Y4RPB- ST Sta. 10+00.00 = -L- POT Sta. 358+40.58.61' LT

-Y4RPB- SC Sta. 11+50.00

BEGIN BRIDGE -L- STA. 353+65.00

END BRIDGE -L- STA. 358+65.00

END APPROACH SLAB -L- STA. 358+88.85

BEGIN SHEETING WALL 11 -L- 358+15.50 87' LT

BEGIN, SHEETING WALL 12 -L- 359+15.23 87' LT

END BIFURCATED BARRIER BEGIN SHEETING WALL 10A +10.00 -L- 348+50.00 75' RT

END SHEETING WALL 10A BEGIN SHEETING WALL 10B -L- 350+50.00 75' RT

END SHEETING WALL 10 -L- 354+16.42 87' LT

300' TAPER

920' ACCELERATION LANE

840' DECELERATION LANE

CL I RIP RAP EST. 11 TONS EST. 22 SY GF

CL I RIP RAP EST. 1 TONS EST. 5 SY GF

CL I RIP RAP EST. 2 TONS EST. 7 SY GF

CL I RIP RAP ROCK PLATING

CL I RIP RAP EST. 48 TONS EST. 89 SY GF

15" CAAP W/GASKET, ROD AND LUG CONNECTORS W/2 ELBOWS

TIE PROP WW FENCE TO BRIDGE

WALL SCOUR COUNTERMEASURE

STRUCTURE EXCAVATION

REMOVE

REMOVE DI

REMOVE CONCRETE DITCH

DO NOT DISTURB RIVERWALK

THE RIVER WALK 8' BST

25' WATER AND SEWER DISPOSAL EASEMENT DB 985 PG 49

PROP.GUARDRAIL

EXIST.R/W

PROP.SBG

TYPE B-77

PROP.MEDIAN BARRIER

PROP.CONC.BARRIER

CONC MEDIAN BARRIER WALL

BRIDGE #147

BRIDGE #146

N 60°59'57.5" E

355+00

350+00

360+00

15" RCP-III

15" WELDED STEEL

18" WELDED STEEL

15" PP

14" PS

24" PS

TB 2GI

195 SBL VARIABLE WIDTH 8' BST

195 NBL VARIABLE WIDTH 24' BST

WOODS

NORTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE.	FOR -L- PROFILE SEE SHT.48
SOUTHBOUND R/W LABELED OFF -L- UNLESS NOTED OTHERWISE.	FOR -Y4RPB- PROFILE SEE SHT.61

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corbin.jackson

FLATIRON UNITED

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4520 Falls of Neuse Road, Suite 110
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Phone: 833-642-0423
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -Y4- STA. 19+00.00 (SEE SHEET 22)

MATCHLINE -L- STA. 360+00.00 (SEE SHEET 23)

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 25)

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 33)

CALLOUT LEGEND	
A	-SRI- POT Sta. 10+00.00 = -Y4- POT Sta. 23+42.49
B	-RAB1- POC Sta. 20+10.00 = -RAB1- POC Sta. 23+68.14
C	-SRI- PC Sta. 10+94.22
D	-Y4RPC- PT Sta. 22+50.79
E	-Y4RPC- POT Sta. 22+67.33
F	-SR2- POT Sta. 10+00.00 = -Y4- POT Sta. 31+76.45
G	-RAB2- POC Sta. 50+00.00 = -RAB2- POT Sta. 53+58.14

FOR INTERSECTION & ROUNDABOUT DETAILS SEE SHT. 28-4		FOR -L- PROFILE SEE SHT. 49
FOR -SRI- PROFILE SEE SHT. 69	FOR -Y4- PROFILE SEE SHT. 59	FOR -Y4RPB- PROFILE SEE SHT. 61
FOR -SR2- PROFILE SEE SHTS. 71 THRU 72	FOR -RAB1- PROFILE SEE SHT. 60	FOR -Y4RPC- PROFILE SEE SHT. 62
FOR -Y4RPA- PROFILE SEE SHTS. 60 THRU 61	FOR -RAB2- PROFILE SEE SHT. 60	FOR -Y4RPD- PROFILE SEE SHT. 62

GRAPHIC SCALE
50 25 0 50 100
PLANS

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FLATIRON UNITED INFRASTRUCTURE GROUP

ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 387+00.00 (SEE SHEET 24)

MATCHLINE -L- STA. 400+00.00 (SEE SHEET 26)

-SRI- PCC Sta. 30+71.67

-SR2- PT Sta. 27+62.62

-SR2- PC Sta. 32+25.25

-SR2- PCC Sta. 34+46.29

-L- 395+00

SRI LACKEY ST

SR2 CAPUANO ST

N 43° 49' 41.0" E

END CANTILEVERED CIP RETAINING WALL #23
BEGIN BIFURCATED BARRIER
-L- 388+00.00 87' RT

BEGIN COMBO NOISE/ RETAINING WALL #13
-L- 396+39 +/- 80.5' RT

217
JAMES N. BRITT III
DB 721 PG 286
WB 13 PG 180
PART OF DB 101 PG 98

215
JAMES N. BRITT III
WB 13 PG 180
DB 721 PG 286 TRACT 23

214
CITY OF LUMBERTON
DB 519 PG 183

NORTHBOUND R/W LABELED OFF -SR2- UNLESS NOTED OTHERWISE.		FOR -L- PROFILE SEE SHT.50
SOUTHBOUND R/W LABELED OFF -SRI- UNLESS NOTED OTHERWISE.	FOR -SRI- PROFILE SEE SHTS.69 THRU 70	FOR -SR2- PROFILE SEE SHT.72

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carbin.jackson

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE (SEE SHEET 26A)

MATCHLINE -L- STA. 400+00.00 (SEE SHEET 25)

MATCHLINE -L- STA. 413+00.00 (SEE SHEET 27)

-SRI- PCC Sta. 43+22.36

-SRI- PC Sta. 51+84.53

-SRI- PT Sta. 49+75.21

-SR2- PCC Sta. 47+18.62

217 JAMES N. BRITT III DB 721 PG 286 WB 13 PG 180 PART OF DB 101 PG 98

225 COLE TS LUMBERTON NC, LLC DB 1906 PG 90 MB 48 PG 2

226 CHD LUMBERTON HOTEL, LLC DB 2014 PG 814

227 CRACKER BARREL OLD COUNTRY STORE, INC. DB 649 PG 512

228 CRACKER BARREL OLD COUNTRY STORE, INC. DB 649 PG 508

229 I95 MINI MALL INCORPORATED DB 2035 PG 128

230 I95 MINI MALL INCORPORATED DB 2035 PG 128

215 JAMES N. BRITT III WB 13 PG 180 DB 721 PG 286 TRACT 23

214 CITY OF LUMBERTON DB 519 PG 183

231 VANESSA E. BURTON DB 1001 PG 589 MB 12 PG 1

232 ALLEN C. FAIRCLOTH & WIFE AMANDA NETTLES FAIRCLOTH DB 1986 PG 341 MB 12 PG 66

233 GEORGE & WF, LINDA SMALL DB 6011 PG 728 MB 13 PG 55

234 JPC INVESTMENTS, LLC DB 1872 PG 575 MB 13 PG 55

235 ANDREA P WELLINGTON DB 2013 PG 676 MB 13 PG 55

236 DALLAS B ARNETT JR. DB 1062 PG 651 MB 13 PG 55

237 KATHERINE L BOYD HSD JEREMY BOYD DB 1974 (illegible)

238 TONYA C REEVES DB 1162 PG 841

240 BEN CHAVIS DB 1575 PG 1205 MB 44 PG 97

NOW OR FORMERLY VIRGINIA AND CAROLINA SOUTHERN RAILWAY COMPANY DEED NOT FOUND

405+00 L - I 95

405+00 -L- I 95 VARIABLE WIDTH BST

PROP. MEDIAN BARRIER

I95 NBL VARIABLE WIDTH BST

I95 SBL VARIABLE WIDTH BST

DITCH CLEANOUT DDE=850 CY SEE DETAIL AD

CL. I RIP RAP EST 26 TON EST 50 SY GF

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL LATERAL V DITCH SEE DETAIL AA

STANDARD BASE DITCH SEE DETAIL AM CL. I RIP RAP EST 54 TON EST 90 SY GF DDE=55 CY

FLOWABLE FILL

300' TAPER

990.00' ACCELERATION LANE

8"x18" CONC. CURB

PROP. SIDEWALK

PROP. 2'-6" C&G

EXIST. R/W

POTENTIAL COMBINATION RETAINING/NOISE WALL

FOR -L- PROFILE SEE SHT.50
FOR -SRI- PROFILE SEE SHT.70
FOR -SR2- PROFILE SEE SHT.72

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sarahlohmann

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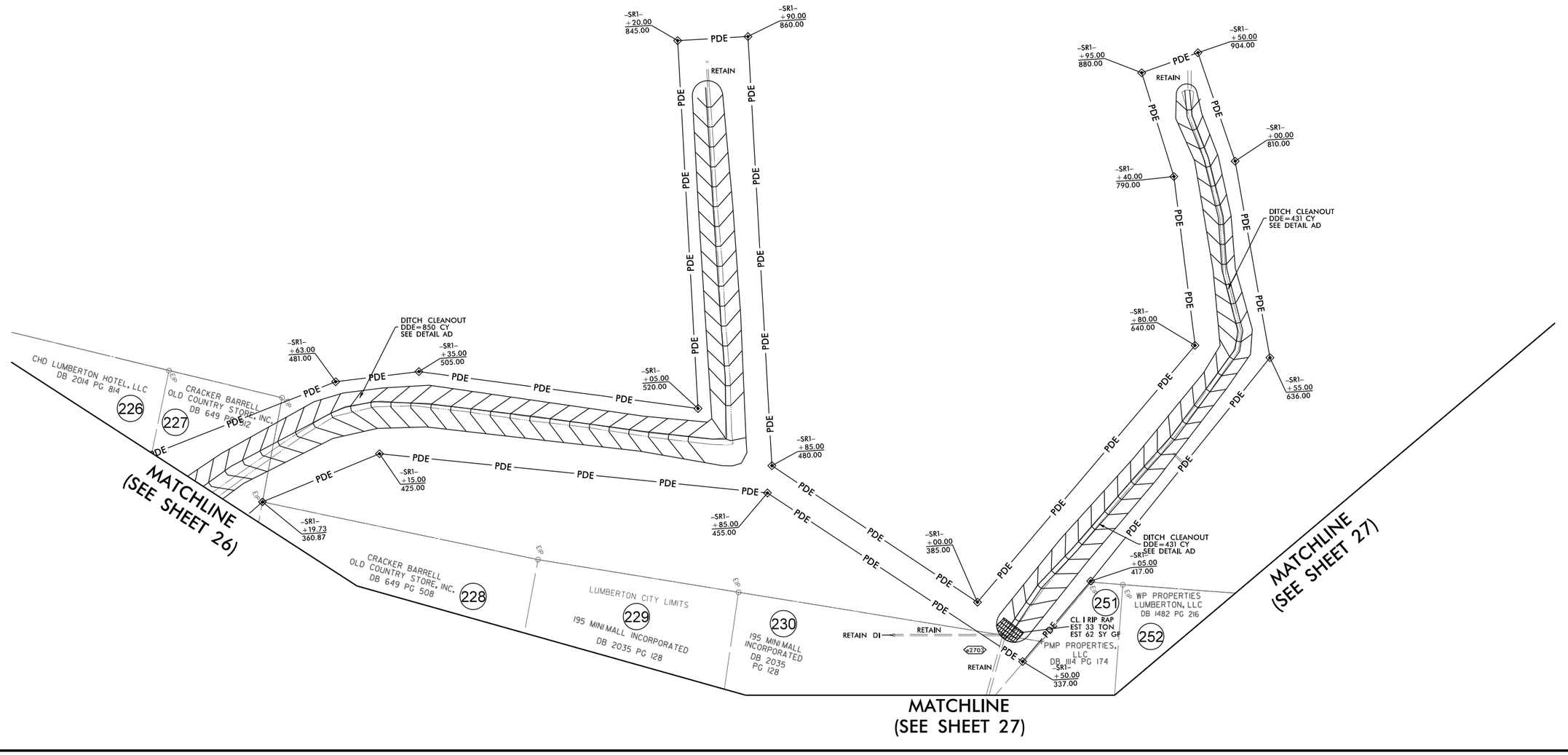
Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

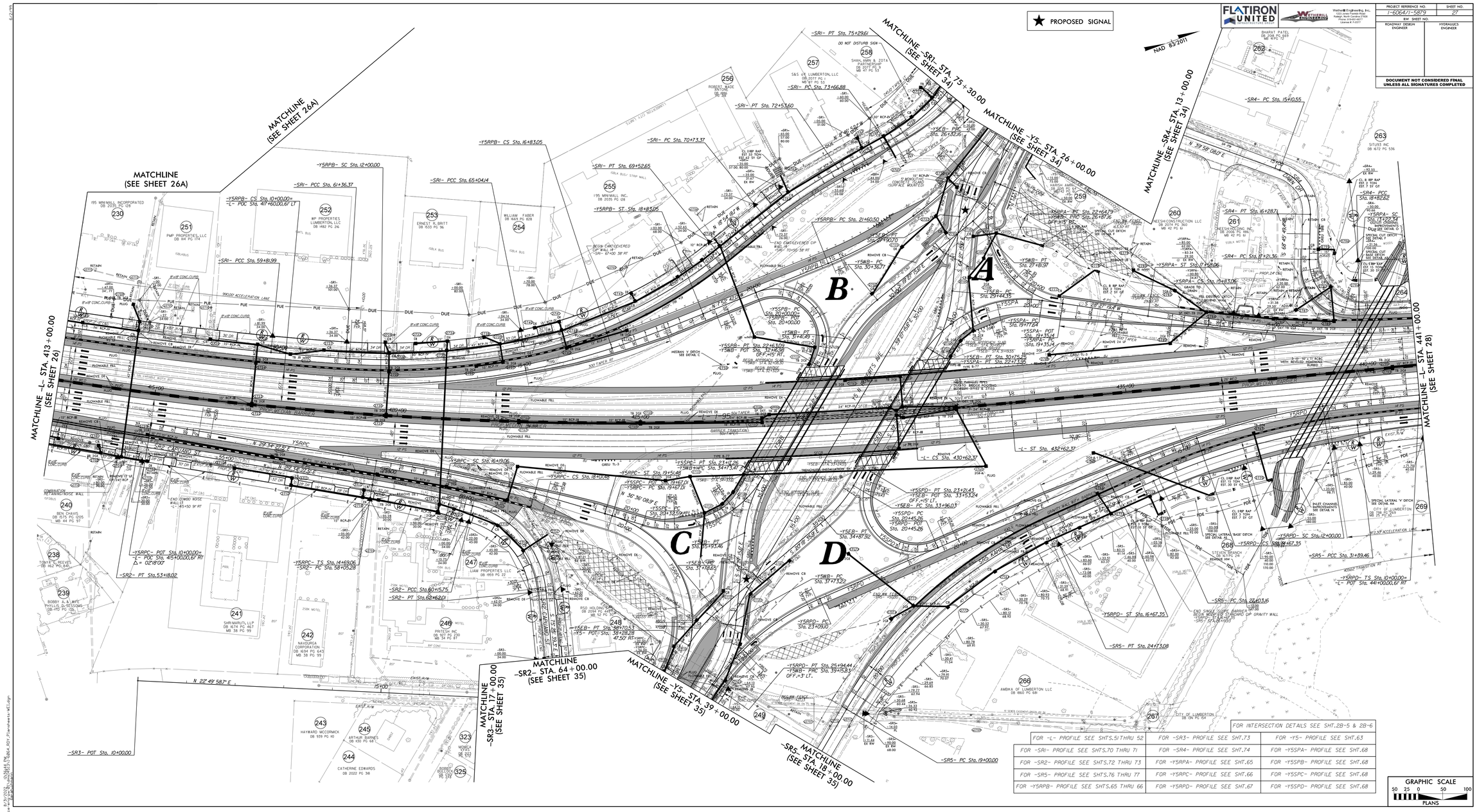
PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	26A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

217
JAMES N. BRITT III
DB 721PG 286
WB 13 PG 180
PART OF DB 101 PG 98


-SR1-
+20.00
845.00
PDE
-SR1-
+90.00
860.00
RETAIN
PDE
PDE
PDE
PDE
-SR1-
+50.00
904.00
-SR1-
+95.00
880.00
PDE
RETAIN
PDE
PDE
-SR1-
+00.00
810.00
-SR1-
+40.00
790.00
PDE
PDE
DITCH CLEANOUT
DDE=431 CY
SEE DETAIL AD
-SR1-
+80.00
640.00
PDE
PDE
PDE
-SR1-
+55.00
636.00
DITCH CLEANOUT
DDE=850 CY
SEE DETAIL AD
-SR1-
+63.00
481.00
-SR1-
+35.00
505.00
-SR1-
+05.00
520.00
PDE
PDE
PDE
PDE


PROPOSED SIGNAL
NAD 83-2011
MATCHLINE (SEE SHEET 26A)
MATCHLINE -SR1- STA. 75+30.00 (SEE SHEET 34)
MATCHLINE -YS- STA. 26+00.00 (SEE SHEET 34)
MATCHLINE -SR4- STA. 13+00.00 (SEE SHEET 34)
MATCHLINE -L- STA. 413+00.00 (SEE SHEET 26)
MATCHLINE -L- STA. 441+00.00 (SEE SHEET 28)
MATCHLINE -SR2- STA. 64+00.00 (SEE SHEET 35)
MATCHLINE -SR3- STA. 17+60.00 (SEE SHEET 35)
MATCHLINE -YS- STA. 39+00.00 (SEE SHEET 35)
MATCHLINE -SR5- STA. 18+00.00 (SEE SHEET 35)
A
B
C
D
-SR1- PT Sta. 75+29.61
-SR1- PC Sta. 73+66.88
-SR1- PT Sta. 72+53.60
-SR1- PC Sta. 70+73.37
-SR1- PT Sta. 69+52.65
-SR1- PCC Sta. 65+04.14
-SR1- PCC Sta. 61+36.37
-SR1- PCC Sta. 59+81.99
-Y5RPB- CS Sta. 16+83.05
-Y5RPB- SC Sta. 12+00.00
-Y5RPB- CS Sta. 10+00.00= -L- POC Sta. 417+60.00, 6' LT
-Y5RPB- ST Sta. 18+83.05
-Y5RPB- PC Sta. 21+60.50
-Y5RPA- PT Sta. 20+64.79
-Y5RPA- PRC Sta. 25+87.16
-Y5RPA- ST Sta. 0+25.06
-Y5RPA- CS Sta. 15+83.06
-SR4- PC Sta. 15+40.55
-SR4- PT Sta. 16+28.71
-SR4- PCC Sta. 18+82.82
-SR4- PCC Sta. 17+21.36
-Y5RPA- SC Sta. 13+22.54
-Y5RPC- PT Sta. 23+12.43
-Y5RPC- PRC Sta. 19+77.64
-Y5RPC- PC Sta. 19+35.14
-Y5RPC- CS Sta. 16+49.06
-Y5RPC- SC Sta. 16+19.06
-Y5RPC- TS Sta. 14+69.06
-Y5RPC- POT Sta. 10+00.00= -L- POC Sta. 451+00.00, 6' RT
Δ = 02°18'00"
-SR2- PT Sta. 53+18.02
-SR2- PC Sta. 58+05.28
-SR2- PCC Sta. 60+15.75
-SR2- PT Sta. 62+62.01
-SR3- POT Sta. 10+00.00
-Y5RPD- PT Sta. 23+12.43
-Y5RPD- POT Sta. 23+15.24
OFF 4.15' LT.
-Y5RPD- PC Sta. 20+45.26
-Y5RPD- PT Sta. 23+09.20
-Y5RPD- PRC Sta. 25+94.44
-Y5RPD- PC Sta. 29+52.53
OFF 4.3' LT.
-Y5RPD- ST Sta. 16+67.35
-Y5RPD- CS Sta. 19+67.35
-Y5RPD- SC Sta. 12+00.00
-Y5RPD- TS Sta. 10+00.00= -L- POT Sta. 441+00.00, 6' RT
-SR5- PC Sta. 22+03.16
-SR5- PCC Sta. 31+39.46
-SR5- PT Sta. 24+73.08
-SR5- PC Sta. 19+00.00
-Y5SPB- PC Sta. 20+00.00= -Y5RPB- POT Sta. 20+00.00
-Y5SPB- PT Sta. 22+63.04
-Y5RPB- PRC Sta. 19+52.53
OFF 3' LT.
-Y5SPC- PT Sta. 22+63.04
-Y5RPB- POT Sta. 12+29.58
-Y5SPC- PC Sta. 20+00.00
-Y5SPC- PT Sta. 23+10.26
-Y5RPB- PRC Sta. 19+52.53
OFF 3' LT.
-Y5SPC- ST Sta. 19+45.49
-Y5RPC- PT Sta. 23+67.19
-Y5RPC- PC Sta. 19+67.19
-Y5SPC- PC Sta. 20+33.59
-Y5SPC- PT Sta. 23+33.59
-Y5SPD- PT Sta. 23+12.43
-Y5EB- POT Sta. 33+15.24
-Y5EB- PC Sta. 33+90.03
-Y5EB- PT Sta. 34+87.92
-Y5EB- PC Sta. 26+32.16
-Y5EB- PT Sta. 27+78.25
-Y5EB- PC Sta. 29+44.35
-Y5EB- PT Sta. 30+75.25
-Y5EA- PT Sta. 22+13.09
-Y5EA- PC Sta. 19+77.64
-Y5EA- PT Sta. 19+35.14
-Y5EA- PC Sta. 17+21.30
-Y5EA- PT Sta. 16+67.35
-Y5EA- PC Sta. 15+23.41
-Y5EA- PT Sta. 14+78.92
-Y5EA- PC Sta. 13+34.98
-Y5EA- PT Sta. 12+90.49
-Y5EA- PC Sta. 11+46.55
-Y5EA- PT Sta. 11+02.06
-Y5EA- PC Sta. 9+58.12
-Y5EA- PT Sta. 9+13.63
-Y5EA- PC Sta. 7+69.69
-Y5EA- PT Sta. 7+25.20
-Y5EA- PC Sta. 5+81.26
-Y5EA- PT Sta. 5+36.77
-Y5EA- PC Sta. 3+92.83
-Y5EA- PT Sta. 3+48.34
-Y5EA- PC Sta. 2+04.40
-Y5EA- PT Sta. 1+59.91
-Y5EA- PC Sta. 0+15.97
-L- ST Sta. 432+62.37
-L- CS Sta. 430+62.37
-L- PT Sta. 429+70.70
-L- PC Sta. 427+44.35
-L- PT Sta. 425+18.00
-L- PC Sta. 422+91.65
-L- PT Sta. 420+65.30
-L- PC Sta. 418+38.95
-L- PT Sta. 416+12.60
-L- PC Sta. 413+86.25
-L- PT Sta. 411+59.90
-L- PC Sta. 409+33.55
-L- PT Sta. 407+07.20
-L- PC Sta. 404+80.85
-L- PT Sta. 402+54.50
-L- PC Sta. 400+28.15
-L- PT Sta. 398+01.80
-L- PC Sta. 395+75.45
-L- PT Sta. 393+49.10
-L- PC Sta. 391+22.75
-L- PT Sta. 388+96.40
-L- PC Sta. 386+70.05
-L- PT Sta. 384+43.70
-L- PC Sta. 382+17.35
-L- PT Sta. 379+91.00
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-L- PT Sta. 375+38.30
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-SR4- PT Sta. 474+09.46
-SR4- PC Sta. 476+09.46
-SR4-

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

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1223 Jones Franklin Road
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Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 441+00.00 (SEE SHEET 27)

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 29)

NAD 83/2011

CITY OF LUMBERTON DB 14R PG 293, DB 14R PG 253, DB 14J PG 284, DB 14S PG 266 — 340

CITY OF LUMBERTON DB 13S PG 133 — 274

CITY OF LUMBERTON DB 798 PG 269 — 264

CITY OF LUMBERTON DB 2208 PG 663, MB 54 PG 173 — 273

CITY OF LUMBERTON DB 2208 PG 663, MB 54 PG 173 — 273A

CITY OF LUMBERTON DB 16X PG 229 — 275

FRENCH FAMILY PROPERTIES DB 1430 PG 572 — 276

FRENCH FAMILY PROPERTIES DB 1430 PG 572 — 404

CITY OF LUMBERTON DB 798 PG 269, MB 25 PG 110 — 269

CITY OF LUMBERTON DB 798 PG 269, MB 25 PG 110 — 270

CHARLES MCNEIL DB 1240 PG 122 — 271

SOUTHERN NATIONAL BANK DB 843 PG 359 — 272

-SR4- PC Sta.22+89.46

-SR4- PT Sta. 26+07.68

-Y5RPA- POT Sta. 10+00.00

-L- POT Sta. 443+10.00, 61' LT, Δ = 02°19'00"

-SR4- PT Sta. 20+54.87

-Y5RPA- TS Sta. 11+47.34

-SR5- PT Sta. 32+71.70

-SR5- PC Sta. 40+51.70

-SR5- PRC Sta. 43+59.04

-L- I-95

SR4 DAWN DR

SR5 KAHN DR

N 17° 06' 28.0" E

Y5RPA S 17° 06' 28.0" W

N 14° 47' 28.0" E

443+00

450+00

35+00

40+00

45+00

PROP.MEDIAN BARRIER

FLOWABLE FILL

3 @ 10' x 11' RCBC WITH BEVELED HEADWALL BURIED 1'

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL Q

STANDARD BASE DITCH SEE DETAIL AG 3' BASE 3:1 SIDES 0.50% GRADE DDE=20 CY

CL B RIP RAP EST. 8 TON EST. 21 SY GT

SPECIAL CUT DITCH SEE DETAIL F

CL B RIP RAP EST. 3 TON EST. 10 SY GT

CL B RIP RAP EST. 5 TON EST. 14 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 60 TONS EST 130 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 90 TONS EST 200 SY GT

TOE PROTECTION SEE DETAIL G W/CL B RIPRAP EST 100 TONS EST 148 SY GT

INLET CHANNEL IMPROVEMENTS SEE DETAIL P

CHANNEL CHANGE SEE DETAIL AZ DDE = 1800 CY

CLASS I RIP RAP BANK STABILIZATION CL I RR 424 TNS GEO 720 SY

CLASS I RIP RAP BANK STABILIZATION CL I RR 322 TNS GEO 545 SY

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

DITCH CLEANOUT SEE DETAIL AF 4' BASE 3:1 SIDES 0.45% GRADE DDE=25 CY

COMBINATION RETAINING/NOISE WALL 15

DO NOT DISTURB LIFT STATION

PROP.10' MULTI-USE PATH

PROP.2'-6" C&G

EXIST.R/W

972.30' ACCELERATION LANE

300' TAPER

FOR -SR4- PROFILE SEE SHT.74	FOR -L- PROFILE SEE SHT.52
FOR -Y5RPA- PROFILE SEE SHT.65	FOR -SR5- PROFILE SEE SHT.77

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sarah.chmann

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FLATIRON UNITED INFRASTRUCTURE GROUP

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 454+00.00 (SEE SHEET 28)

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 30)

405 FRENCH FAMILY PROPERTIES DB 1430 PG 572

406 FRENCH FAMILY PROPERTIES DB 1430 PG 572

273B CITY OF LUMBERTON DB 2208 PG 663 MB 54 PG 173

277 YUK HAN LIU DB 1404 PG 514

272 SOUTHERN NATIONAL BANK DB 843 PG 359

278 KENT BALDWIN DB 412 PG 135 DB 1072 PG 716

279 STEVEN BRANCH DB 2084 PG 680

SR4 DAWN DR

SR5 KAHN DR

-L- I-95

PROP. MEDIAN BARRIER

PROP.10' MULTI-USE PATH

PROP.2'-6" C&G

EXIST.R/W

EXISTING R/W

SPECIAL CUT DITCH SEE DETAIL F

COMBINATION RETAINING/NOISE WALL

WOODS

BILL BOARD

90' SIGN & LINE OF SIGN EASEMENT PER MB 54 PG 173

30' TELECOMMUNICATIONS EASEMENT PER MB 34 PG 87

ECOMMUNICATIONS EASEMENT PER DB 784 PG 98

N 14° 47' 28.0" E

TO US 301/ FAYETTEVILLE RD

D BAILEY RD

BST PARKING

ISF BUS

ISBK BUS

ISMTL BUS

METAL POST

WOODEN POST

54" CONC

CONC

CORR. METAL BARRIER

CONC. MEDIAN BARRIER WALL

FLOWABLE FILL

FILL EXISTING DITCH

FILL HOLE

SPECIAL LATERAL 'BASE' DITCH SEE DETAIL AI

SPECIAL CUT BASE DITCH SEE DETAIL AB

CL. I RIP RAP EST. 26 TON EST. 50 SY GT

-SR5- PT Sta. 46+66.37

FOR -SR4- PROFILE SEE SHTS.74 THRU 75
FOR -L- PROFILE SEE SHTS.52 THRU 53	FOR -SR5- PROFILE SEE SHTS.77 THRU 78

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sarahmann

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

MATCHLINE -L- STA. 467+00.00 (SEE SHEET 29)

MATCHLINE -L- STA. 480+00.00 (SEE SHEET 31)

-SR4- PC Sta. 55+00.00

-SR4- PRC Sta.56+94.77

-SR4- PT Sta.58+89.53

-SR4- +00.00 90.00 & EX RW

-SR4- +36.00 95.00

500' TAPER LT & RT

SR4 DAWN DR

N 14° 47' 28.0" E

SR5 KAHN DR

S 75° 12' 32.0" E

-Y7- POT Sta. 10+00.00

-SR5- POT Sta. 68+87.78

-Y7- POT Sta. 12+00.00

470+00 -L- I-95

475+00

480

50+00

55+00

60+00

65+00

70+00

+75.00

+50.00

+52.27

407 FRENCH FAMILY PROPERTIES DB 1430 PG 572

408 FRENCH FAMILY PROPERTIES DB 1430 PG 572

273B CITY OF LUMBERTON DB 2208 PG 663 MB 54 PG 173

286 FRENCH FAMILY PROPERTIES DB 1430 PG 572

280 LUMBERTON CITY SCHOOL ADM. UNIT DB 488 PG 181

279 STEVEN BRANCH DB 2084 PG 680

281 WILLIAM GREENE DB 692 PG 686 MB 31PG 1

282 WHITEHALL INVESTORS LLC DB 1609 PG 31 MB 43 PG 96

283 EAGLES LANDING PROPERTIES LLC DB 1911PG 291 MB 48 PG 103

284 CHURON WINERY LLC DB 2141PG 46 MB 49 PG 2

285 LUMBEE RIVER ELECTRIC DB 1078 PG 16

287 STATE NC HIGHWAY PATROL DB 12C PG 82

CL. B RIP RAP EST. 2 TON EST. 7 SY GT

CL. I RIP RAP EST. 20 TON EST. 39 SY GT

DITCH BLOCK TOP ELEV.=122.4' SEE DETAIL AN

COMBINATION RETAINING/NOISE WALL

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL CUT BASE DITCH SEE DETAIL AK

PROP.10' MULTI-USE PATH

PROP.2'-6" C&G

EXIST.R/W

90' SIGN & LINE OF SIGN EASEMENT PER MB 54 PG 173

WOODS

BILL BOARD

FLOWABLE FILL

PLUG

REMOVE

REMOVE DI

REMOVE JB

REMOVE CB

RETAIN

RETAIN DI

RETAIN CB

SFCB

DFCB

CONC MEDIAN BARRIER WALL

PROP.MEDIAN BARRIER

STORM WATER RETENTION EASEMENT

40' COMMON DRIVE EASEMENT

34' DR

32' DR

28' DR

24' DR

2' DR

BST PARKING 7.5° CONC

60' CONC

8' CONC

ISBK BUS

FLAG POLE

CITY OF LUMBERTON

FOR -SR4- PROFILE SEE SHT.75

FOR -L- PROFILE SEE SHT.53

FOR -SR5- PROFILE SEE SHT.78

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FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

END TIP PROJECT I-6064
-L- POT Sta. 488+46.78

TIE TO TIP PROJECT I-5987A
-L- POT Sta. 67+00.00

MATCHLINE -L- STA. 480+00.00
(SEE SHEET 30)

AIMEE M. BATSON 403
DB 2228 PG 637
MB 39 PG 4

402
JOEY HUCKS
ATHENA HUCKS
DB 664 PG 737
MB 39 PG 4

401
CITY OF LUMBERTON
DB 1843 PG 177 MB 39 PG 4

286
FRENCH FAMILY PROPERTIES
DB 1430 PG 572

293
FRENCH FAMILY PROPERTIES
DB 1430 PG 572
MB 39 PG 4

(1)
SOUTHEASTERN REGIONAL MEDICAL CENTER
DB 1867 PG 68
MB 47 PG 144

PROPOSED ROW TO BE PURCHASED UNDER NCDOT PROJECT I-5987A

TRANSITION FROM COMBINATION RETAINING/NOISE WALL 16 TO DOUBLE FACE SINGLE SLOPE BARRIER AND CURB AND GUTTER.

-SR4- POT Sta. 67+37.18

-L- PC Sta. 484+00.00

-L- PRC Sta. 485+38.00

-L- PT Sta. 486+75.99

SPECIAL CUT BASE DITCH SEE DETAIL AK

COMBINATION RETAINING/NOISE WALL

500' TAPER LT & RT

CL. I RIP RAP EST. 20 TON EST. 39 SY GT

DA=11 Ac Q10=29 cfs HW/D=1.13

CL. B RIP RAP EST. 15 TON EST. 34 SY GT

DITCH CLEANOUT SEE DETAIL AF 10' BASE 3:1 SIDES 0.0% GRADE DDE=325 CY

PIPE OUTLET AND DITCH TO BE CONSTRUCTED UNDER PROJECT I-5987A.

DO NOT DISTURB BILLBOARD

BILL BOARD

REMOVE

PROP.10' MULTI-USE PATH

PROP.2'-6" C&G

N 14° 47' 28.0" E SR4 DAWN DR

-L- I-95

PROP.MEDIAN BARRIER

SR5 KAHN DR

-SR5- PC Sta. 76+00.00

-SR5- PRC Sta. 77+06.09

-SR5- PT Sta. 78+12.19

-SR5- POT Sta. 80+18.65

212.19' TAPER RT

100' TAPER LT & RT

-SR6-

-SR7-

10' CONC. MUP

2'-6" CURB & GUTTER

4" CONC. COVER SINGLE SLOPE CONC. BARRIER

PROP. SINGLE SLOPE CONC. BARRIER

RETAIN EXISTING C&G

NOTE: PLACE CB AT SAME LOCATION AS BLIND JB AND CONNECT 6" PIPE FROM DI

RETAIN DI, DI GOES TO A BLIND JB

SPECIAL CUT DITCH SEE DETAIL F

(2) NO CLAIM

(3) NO CLAIM

287
STATE NC HIGHWAY PATROL
DB 12C PG 82

288
REENA PATEL
DB 1925 PG 608

289
REENA PATEL
DB 1916 PG 298

290
NOBLE INVSTMENT AND DEVELOPMENT LLC
DB 1958 PG 854

LUMBERTON INVESTORS LLC
DB 1672 PG 316
MB 44 PG 65

CASHMAN & HOBBES LLC
DB 1990 PG 466
MB 44 PG 65

ISBK BUS

ISBLK BUS

ISFBUS

FOR -L- PROFILE SEE SHT.53	FOR -SR5- PROFILE SEE SHTS.78 THRU 79
	FOR -SR4- PROFILE SEE SHTS.75 THRU 76

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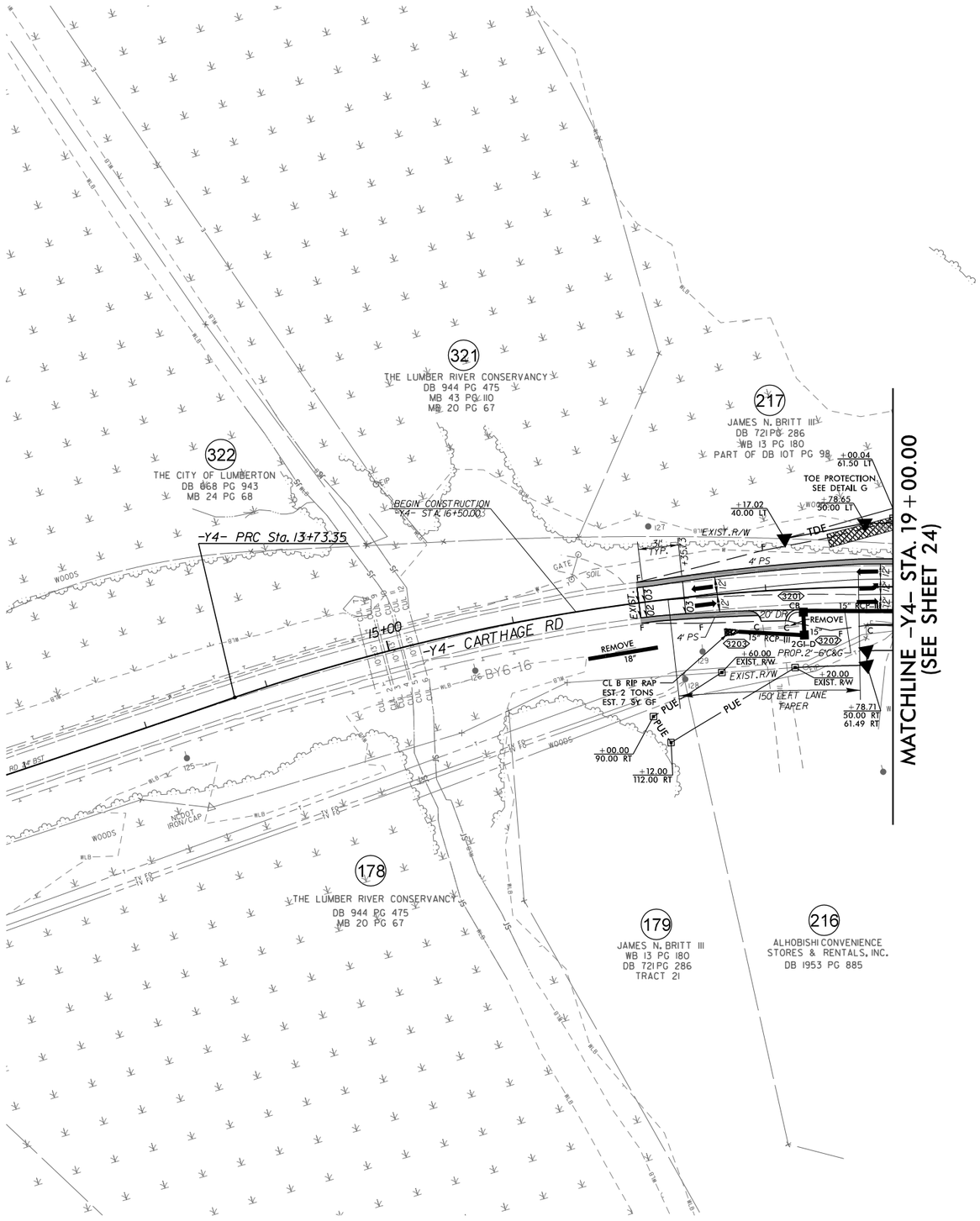
ICE of CAROLINAS, PLLC

ICE of Carolinas, PLLC
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 803-822-0333
License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE.

FOR -Y4- PROFILE SEE SHT.59

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License #: P-0999

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE -Y4- STA. 35+00.00 (SEE SHEET 24)

-Y4- POT Sta. 41+93.24

192 SASA RENTALS, LLC DB 1730 PG 384 MB 7 PG 48

191 MELTON HUNT & LINDA HUNT DB 2011 PG 291 MB 7 PG 48

FREDERICK SMITH & WIFE BARBARA DB 634 PG 620 MB 7 PG 48

309 JIMMIE ROGERS DB 670 PG 22 MB 7 PG 48

188

187 RODNEY & WF JOHNA LF. EST. CLARENCE KELLY HAMAN Z GR REMAINDER DB 1999 PG 435 MB 7 PG 48

308 JOHNNY HAMANLF EST/ CLARENCE K. HAMAN DB 1033 PG 608 MB 7 PG 48

WILLIAM HORACE HERRING LF. EST. CLARENCE KELLY HERRING REM. DB 1996 PG 438 MB 7 PG 48

311 JOHNNY JONES ET UX LINDA JONES DB 1240 PG 124 MB 7 PG 48

PATRICIA L. ROGERS, JUDY FAY STEAD, AND CATHY S. ADAMS AS TENANTS IN COMMON DB 1192 PG 461 MB 7 PG 48

313 TERRY L. DAVIS & WF JEAN A. DAVIS DB 1689 PG 55 MB 7 PG 48

LARRY M. WILKERSON DB 684 PG 931 MB 7 PG 48

315 COLEEN O. OWENS DB 1317 PG 131 MB 7 PG 48

RONNIE LAWRENCE JACKSON ET UX ELMA BALL JACKSON DB 1906 PG 46 DB 1906 PG 48 DB 1906 PG 50 DB 1906 PG 52 DB 1906 PG 54 MB 7 PG 48

318 JOHNSON BROTHERS' DEVELOPMENTS LLC DB 1881 PG 691 DB 1836 PG 565 MB 7 PG 48

319

307 310 312 314 320

JAMES RALFORD JR. AND WF PEACHES MARIE POPE DB 831 PG 820 MB 7 PG 48

JOHNNY JR & LINDA C. JONES DB 892 PG 435 MB 7 PG 48

JOHNNY JR & LINDA C. JONES DB 860 PG 401 MB 7 PG 48

LARRY M. WILKERSON DB 684 PG 931 MB 7 PG 48

ASSUMED LOCATION OF HIDDEN LINE

POSSIBLE EXISTING JB

RETAIN

S 67° 39' 13.3" E

40+00

-Y4- CARTHAGE RD

ASSUMED LOCATION OF EXISTING PIPES

ASSUMED EXISTING PIPE LOCATION NOT IN SURVEY

-Y4- END CONSTRUCTION STA. 38+22.11

TB JB wMH ADDED AT ASSUMED JUNCTION LOCATION OF EXISTING PIPE

EXIST.R/W

FLAG POLE

CONC RAMP

2SBK (BUS)

316 REF. INC. DB 706 PG 496

306 MARILYN TEAGUE DB 1108 PG 168 MB 12 PG 63

305 MARILYN TEAGUE DB 1108 PG 174 MB 12 PG 63

185 NORTH LUMBERTON BAPTIST CHURCH DB 1248 PG 213 DB 16G PG 174 DB 14J PG 103 DB 12T PG 475 DB 10R PG 462 MB 12 PG 63

304 MARILYN TEAGUE DB 1108 PG 170 MB 12 PG 63

-Y4- PT Sta. 37+31.61

303 REF INC. DB 706 PG 496 MB 12 PG 63

302 REF INC. DB 706 PG 496 MB 12 PG 63

R/W LABELED OFF -Y4- UNLESS NOTED OTHERWISE.	FOR -Y4- PROFILE SEE SHT.59

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PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/2011

MATCHLINE -SR4- STA. 13+00.00 (SEE SHEET 27)

MATCHLINE -Y5- STA. 26+00.00 (SEE SHEET 27)

MATCHLINE -SR1- STA. 75+30.00 (SEE SHEET 27)

-Y5- POT Sta. 13+00.00

Y5 N ROBERTS AVE 15+00

BEGIN CONSTRUCTION -Y5- STA. 17+58.00

340 CITY OF LUMBERTON
DB 14R PG 295
DB 17R PG 253
DB 14J PG 284
DB 14S PG 266

339 EUGENE LOCKLEAR
DB 630 PG 264

338 ASHAPURA LODGING LLC
DB 1454 PG 783
25 STUCO MOTEL

262 BHARAT PATEL
DB 2018 PG 669
MB 41PG 72

263 SITU93 INC
DB 1672 PG 536
ISBLK MOTEL

260 NEESHI CONSTRUCTION LLC
DB 2074 PG 360
MB 42 PG 61

259 45BLK MOTEL
HARISH AMIN
DB 2015 PG 64
MB 42 PG 61

217 JAMES N. BRITT III
DB 721PG 286
WB 13 PG 180
PART OF DB 101 PG 98

337 ALBERTO FLORES
DB 1598 PG 333

258 SHAH, AMIN & ZOTA PARTNERSHIP
DB 2077 PG 9
MB 47 PG 53

INLET CHANNEL CL I RIP RAP EST. 50 TON EST. 85 SY GF SEE DETAIL AW

CLEANOUT CULVERT 650 CY OF MATERIAL

OUTLET CHANNEL CL I RIP RAP EST. 42 TON EST. 70 SY GF SEE DETAIL AX

CL B RIP RAP EST 3 TON EST 10 SY GF

CL B RIP RAP EST 1 TON EST 5 SY GF

SPECIAL BACK OF CURB CUT DITCH SEE DETAIL AE

-Y5- +34.00 105.00
-Y5- +98.00 EX RW 82.00
-Y5- +00.00 EX RW
-Y5- +85.00 65.00
-Y5- +93.37 54.00
-Y5- +58.00 EX RW
-Y5- +58.00 127.00
-Y5- +57.00 EX RW
-Y5- +18.00 150.00
-Y5- +70.00 END CA
-Y5- +50.00 65.00
-SR4- +38.15 EX RW
-Y5- +88.52 54.00
-Y5- +10.00 75.00
-Y5- +07.91 EX RW END CA
-SR1- +20.00 EX RW
-SR1- +85.00 86.00
-SR1- +72.00 71.00
-SR1- +70.00 83.00
-SRI- +36.00 56' LT

-SR4- PT Sta. 11+73.99
-SR4- PC Sta. 10+30.00
-SR4- POT Sta. 10+00.00
-Y5- POT Sta. 24+45.00
-Y5- POT Sta. 24+46.74
-SRI- POT Sta. 77+91.51
-SRI- PT Sta. 76+96.82
-Y5- POT Sta. 25+20.00
-Y5EB- PC Sta. 25+20.00, 30' RT.
-Y5RPB- PT Sta. 26+83.19, 33' RT.
-SRI- PC Sta. 76+11.98
-Y5WB- PC Sta. 25+87.18= -Y5- POT Sta. 25+87.18 18' LT.

SR4 DAWN DR
SR1 LACKEY ST
N 50° 32' 44.4" E
N 30° 27' 41.8" W
350' TAPER
150' TAPER
245' TAPER
112.6' TRANSITION
R=75'
PROP. RW
EXIST. R/W
PROP. 2'-6" C&G
PROP. 10' MULTI-USE PATH
END WW FENCE -Y5- +54.00 100' RT.
END WW FENCE -SRI- +30.00 15' RT
END WW FENCE -SRI- +93.80
Y5EB
Y5RPB
BY7-79
ISF BUS
SHRUBS
BILL BOARD
CANOPY
BEGIN CHL FENCE
DUE

FOR INTERSECTION DETAILS SEE SHT.2B-5 & 2B-6	FOR -SRI- PROFILE SEE SHT.71
FOR -Y5- PROFILE SEE SHT.63	FOR -SR4- PROFILE SEE SHT.74

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sarahchmann

8/17/99

FLATIRON UNITED INFRASTRUCTURE GROUP

WETHERILL ENGINEERING

Wetherill Engineering, Inc.
1223 Jones Franklin Road
Raleigh, North Carolina 27606
Phone: 919-851-8077
License #: F-0377

PROJECT REFERENCE NO.	SHEET NO.
I-6064/I-5879	35
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PROPOSED SIGNAL

NAD 83/2011

MATCHLINE -SR5- STA. 18+00.00 (SEE SHEET 27)

MATCHLINE -Y5- STA. 39+00.00 (SEE SHEET 27)

MATCHLINE -SR2- STA. 64+00.00 (SEE SHEET 27)

MATCHLINE -SR3- STA. 17+00.00 (SEE SHEET 27)

-SR5- PT Sta. 13+44.21

NOTE: -SR5- SHALL BE UNIFORMLY MILLED TO A DEPTH OF 1½" AND OVERLAYED WITH 1½" S9.5B FROM STATION 10+00.00 TO 19+00.00

15+00 SR5 KAHN DR

N 39° 25' 17.4" W

-Y5RPC- PT Sta. 23+84.27
-Y5- POC Sta. 39+01.41
OFF.= 32.5' RT

-Y5WB- PT Sta. 40+39.20
-Y5- POT Sta. 39+95.43
OFF.=30.00' LT.

-SR3- POT Sta. 21+02.67
-Y5- POT Sta. 39+89.23

-SR3- PT Sta. 20+36.67
-SR3- PC Sta. 20+07.65

-SR5- PC Sta. 12+21.39

-Y5- TS Sta. 49+57.70

-Y5- SC Sta. 50+52.20

END CONSTRUCTION
-Y5- STA. 49+50.00

-Y6- POT Sta. 12+00.00
-Y5- POT Sta. 46+89.32

-Y6- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-SR3- STA. 17+35.00

-SR2- POT Sta. 64+89.09
-SR3- POT Sta. 18+61.47

-SR5- POT Sta. 10+00.00
-Y5- POT Sta. 44+20.00

N 46° 32' 44.4" E

N 50° 32' 44.4" E

S 39° 27' 15.6" E

Y5 N ROBERTS AVE

N. McMILLAN AVE.

649' TAPER RT

75' TAPER

100' TAPER

FOR INTERSECTION DETAILS SEE SHT.2B-5 & 2B-6		
	FOR -SR5- PROFILE SEE SHT.76	FOR -SR2- PROFILE SEE SHT.73
FOR -Y5- PROFILE SEE SHTS.63 THRU 64		FOR -SR3- PROFILE SEE SHT.73
	FOR -Y5RPC- PROFILE SEE SHT.66	

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