

PROJECT SPECIAL PROVISION

(10-18-95)

Z-1 (Rev.)

PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

<u>PERMIT</u>	<u>AUTHORITY GRANTING THE PERMIT</u>
Dredge and Fill and/or Work in Navigable Waters (404)	U. S. Army Corps of Engineers
Water Quality (401)	Division of Environmental Management, DENR State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-13 of the *2012 Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.

Please note that the requirements contained in this permit are applicable only to the U-4444AB portion of this project.

There are no impacts on U-4444B.



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

August 6, 2009

Regulatory Division

Action ID Number 2009-00654, NC 24-87-210 (Murchison Road) Widening, Transportation Improvements Project U-4444, State Project Number 3.6492.1.2, Cumberland County, North Carolina.

Dr. Gregory J. Thorpe, PhD, Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
Division of Highways
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

In accordance with your written request of March 31, 2009 and the ensuing administrative record, enclosed are two copies of a Department of the Army permit to directly discharge dredged and/or fill material into jurisdictional wetlands to facilitate the widening of NC 24-87-210 (Murchison Road), Transportation Improvements Project U-4444, State Project Number 3.6492.1.2, in Cumberland County, North Carolina. The proposed 5.5 mile NC 210 highway improvement project (Figure 1) begins at the proposed intersection location of the Fayetteville Outer Loop and extends along the existing facility to the NC 24/87 (Bragg Boulevard) intersection in Spring Lake, Cumberland County, North Carolina. The proposed project is located in adjacent wetlands and tributaries that are hydrologically connected to the Cape Fear River. The project is more specifically located starting at Latitude 35.1305 N, Longitude 78.9467 W and ending at Latitude 35.1627, Longitude 78.9720.

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, indicates that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to this office for final authorization. A self-addressed envelope is enclosed for your convenience.

This correspondence contains a preoffered permit for the above described site. If you object to this decision, you may request an administrative appeal under Corps regulations at 33 CFR part 331.

Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this decision you must submit a completed RFA form to the District Commander, Wilmington District Corps of Engineers at the following address:

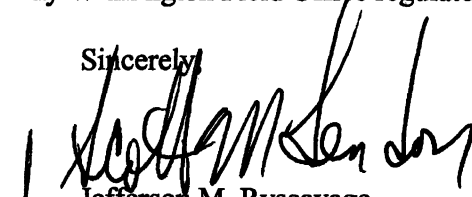
Colonel Jefferson M. Ryscavage, District Commander
U.S. Army Corps of Engineers, Wilmington District
69 Darlington Avenue
Wilmington, North Carolina 28403-1343

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete; that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by October 5, 2009.

It is not necessary to submit an RFA form to the Division Office if you do not object to the decision contained in this correspondence.

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. Should you have questions, contact Ms. Kimberly Garvey of my Wilmington Field Office regulatory staff at telephone (910) 251-4482.

Sincerely,



Jefferson M. Ryscavage
Colonel, EN
Commanding

Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee North Carolina Department of Transportation

Permit No. SAW-2009-000654

Issuing Office USAED, WILMINGTON

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description : Directly discharge dredged and/or fill material into tributaries and associated wetlands to facilitate the widening of NC 24-87-210 (Murchison Road) Widening, Transportation Improvements Project U-4444, State Project Number 3.6492.1.2, in Cumberland County, North Carolina.

Project Location: In the Cape Fear River, Hydrologic Cataloging Unit 03030004. The project is more specifically located starting at Latitude 35.1305 N, Longitude 78.9467 W and ending at Latitude 35.1627, Longitude 78.9720.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **December 31, 2014**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

ENG FORM 1721, Nov 86

EDITION OF SEP 82 IS OBSOLETE.

(33 CFR 325 (Appendix A))

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit,

Special Conditions:

SEE ATTACHED SPECIAL CONDITIONS

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit, Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

E. L. Lusk for Gregory J. Thorne PhD 8-7-09
 (PERMITEE) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

G. Kenneth Kelly 8/21/09
 (DISTRICT ENGINEER) JEFFERSON M. BYSCAVAGE, COLONEL (DATE)

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

 (TRANSFeree) (DATE)

**SPECIAL CONDITIONS (Action ID. 2009-00654, NC 24-87-210 (Murchison Road)
Widening, Transportation Improvements Project U-4444, State Project Number 3.6492.1.2.)**

1. Failure to institute and carry out the details of the following special conditions below will result in a directive to cease all ongoing and permitted work within waters of the United States, including wetlands, associated with the permitted project, or such other remedies and/or fines as the U.S. Army Corps of Engineers District Commander or his authorized representatives may seek.
2. All work authorized by this permit must be preformed in strict compliance with the attached plans, which are a part of this permit.
- * 3. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Ms. Kimberly Garvey, Wilmington Regulatory Field Office, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final half-size construction drawings shall be furnished to the Corps of Engineers, Ms. Kimberly Garvey, Wilmington Regulatory Field Office prior to the pre-construction meeting.
- * 4. The permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. Any deviation in the construction design plans will be brought to the attention of the Corps of Engineers, Ms. Kimberly Garvey, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands.
5. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit and any authorized modifications. Copies of this permit and any modifications authorized by the USACE shall be available for review at the construction site at all times. All violations, including non-compliance of these conditions, of the authorized permit shall be reported to the District Engineer within 24 hours of the violation.
- * 6. Compensatory mitigation for the unavoidable impacts to 7.33 acres of riparian wetlands, 0.06 acre of non-riparian wetlands and 991 linear feet of warm water streams associated with the proposed project shall be provided by the North Carolina Ecosystem Enhancement Program (NCEEP) within the Cape Fear River Basin (Cataloging Unit 03030004). The EEP will provide 14.66 acres of riparian wetland credits, 0.12 acre of non-riparian wetland credits and 1,982 warm water stream credits, pursuant to Section X of Amendment Number 2 to the Memorandum of Agreement (MOA) signed 8 March 2007.

7. Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

8. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area.

9. To ensure that all borrow and waste activities occur on high ground and do not result in loss or the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall ensure that all such areas comply with the preceding condition (#7) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the preceding condition (#7). All information will be available to the Corps of Engineers upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

10. The permittee shall comply with the conditions specified in the water quality certification, No. 3805, issued by the North Carolina Division of Water Quality on 20 July 2009.

11. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures. Culverts shall be placed so that the openings match the natural stream channel wherever possible. Riprap armoring of streams at culvert outlets shall be minimized, including riprap placed above the ordinary high water elevation, in favor of bioengineering techniques such as bank sloping, erosion control matting and revegetation with deep-rooted, woody plants.

12. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing

or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures must be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures must be inspected and maintained regularly, especially following rainfall events. All fill material must be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

13. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.

14. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.

15. The permittee shall install barrier fencing or other acceptable forms of barrier around all wetlands that are not to be disturbed to make them readily visible and prevent construction equipment from inadvertently entering and disturbing the wetland areas that are to remain undisturbed.

16. All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. No equipment staging or storage of construction material will occur in wetlands. Hydro-seeding equipment will not be discharged or washed out into any surface waters or wetlands. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-5083 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

17. If the permittee discovers any previously unknown historic or archeological sites while accomplishing the authorized work, he shall immediately stop work and notify the Wilmington District Engineer who will initiate the required State/Federal coordination.

18. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.

19. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

20. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

21. In issuing this permit, the Federal Government does not assume any liability for:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future Federal activities initiated on behalf of the general public.
- c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.
- d. Design and construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.



North Carolina Department of Environment and Natural Resources

Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

July 20, 2009

RECEIVED
Division of Highways

JUL 23 2009

Preconstruction
Project Development and
Environmental Analysis Branch

Dr. Greg Thorpe, PhD., Manager
Planning and Environmental Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with
ADDITIONAL CONDITIONS for Proposed improvements to NC 210 (Murchison Road) in Cumberland
County, Federal Aid Project No. STP 210(11), State Project No. 36492.1.2, TIP No. U-4444,
NCDWQ Project No. 20090372.

Dear Dr. Thorpe:

Attached hereto is a copy of Certification No. 3805 issued to The North Carolina Department of Transportation
(NCDOT) dated July 20, 2009.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,


for Coleen H. Sullins
Director

Underwood
RECEIVED
JUL 24 2009
DIVISION OF HIGHWAYS
PDEA-OFFICE OF NATURAL ENVIRONMENT

Attachments

- cc: Richard Spencer, US Army Corps of Engineers, Wilmington Field Office
- Jim Rerko, Division 6 Environmental Officer
- Chris Underwood, NCDOT NEU
- Travis Wilson, NC Wildlife Resources Commission
Ecosystem Enhancement Program
- Ken Averitte, NCDWQ Fayetteville Regional Office
File Copy

401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (NCDWQ) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 7.39 acres of jurisdictional wetlands, and 1,100 linear feet of jurisdictional streams in Cumberland County. The project shall be constructed pursuant to the application dated received April 7, 2009. The authorized impacts are as described below:

Stream Impacts in the Cape Fear River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
2	0	310	310	310
3	0	681	681	681
4	109	0	109	0
Total	109	991	1100	991

Total Stream Impact for Project: 1,100 linear feet

Wetland Impacts in the Cape Fear River Basin

Site	Permanent Fill (ac)	Excavation (ac)	Mechanized Clearing (ac)	Drained (ac)	Total Wetland Impact (ac)	Wetland Impacts Requiring Mitigation (ac)
1	0	0	0.01	0	0.01	0.01
2	1.00	0	0.08	0	1.08	1.08
3	4.53	0.22	0.29	0.95	5.99	5.99
4	0.26	0	0	0	0.26	0.26
5	0.05	0	0	0	0.05	0.05
Total	5.84	0.22	0.38	0.95	7.39	7.39

Total Wetland Impact for Project: 7.39 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the Cape Fear River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated received April 7, 2009. Should your project change, you are required to notify the NCDWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). Additional buffer impacts may require compensatory mitigation as described in For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of Certification:

- * 1. Compensatory mitigation for 991 linear feet of impact to perennial streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated March 23, 2009 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.

- * 2. Compensatory mitigation for impacts to 7.33 acres of riparian wetlands and 0.06 acres of non-riparian wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated March 23, 2009 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004
3. All portions of the proposed project draining to 303(d) listed watersheds that are impaired due to biological criteria exceedances shall not discharge stormwater directly to surface waters. Stormwater shall be treated using appropriate best management practices (e.g., vegetated conveyances, constructed wetlands, detention ponds, etc.) prior to discharging to surface waters.
4. Unless otherwise approved in this certification, placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
5. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage.
6. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed.
7. For any streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species.
8. A copy of the final construction drawings shall be furnished to NCDWQ Central Office prior to the pre-construction meeting. The permittee shall provide written verification that the final construction drawings comply with the permit drawings contained in the application dated received April 7, 2009. Any deviations from the approved drawings are not authorized unless approved by the NC Division of Water Quality.
9. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
10. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S.
11. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
12. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
13. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
14. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
15. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.

16. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
17. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
18. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If NCDWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, NCDWQ may reevaluate and modify this certification.
19. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
20. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
21. The outside wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
22. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
23. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- * 24. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the 401 Certification has been completed.
25. Native riparian vegetation (i.e., trees and shrubs native to your geographic region) must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
26. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
27. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

28. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

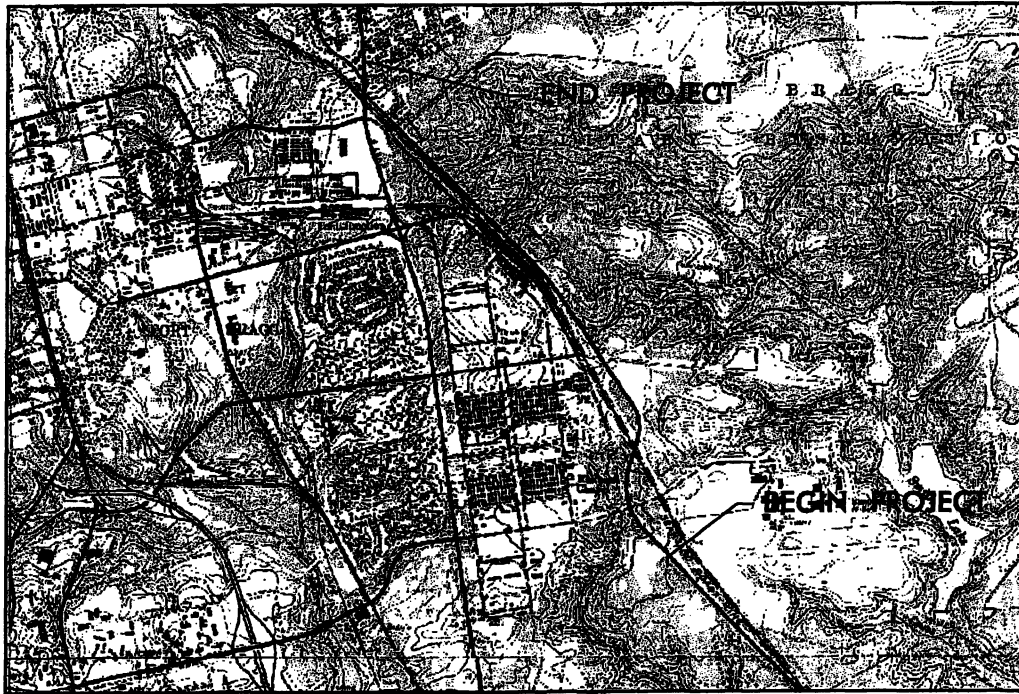
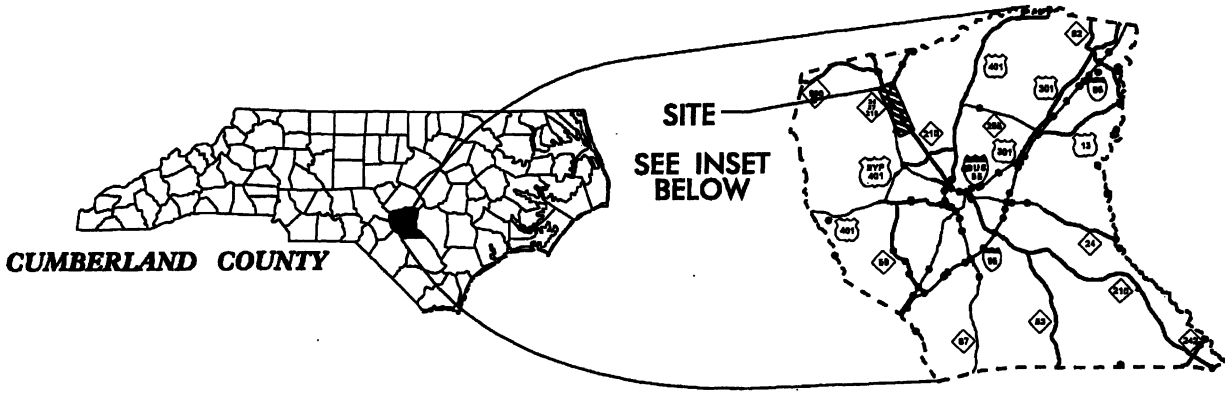
This the 20th day of July 2009

DIVISION OF WATER QUALITY



for Coleen H. Sullins
Director

WQC No. 3805



VICINITY MAP

**WETLAND / STREAM
IMPACTS
VICINITY MAP**

**N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY
PROJECT: 36492.1.2 (U-4444A)
NC 210 (MURCHISON ROAD)
FROM FAYETTEVILLE OUTER
LOOP TO BUTNER ROAD**

SHEET OF 01 / 20 / 09

**Permit Drawing
Sheet 1 of 51**

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	FORT BRAGG MILITARY RESERVATION	
2	STATE OF NC VETERAN AFFAIRS	

**N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY**

PROJECT: 36492.1.2 (U-4444A)

**NC 210 (MURCHISON ROAD) FROM
FAYETTEVILLE OUTER LOOP
TO BUTNER ROAD**

SHEET OF 01/20/09

Permit Drawing
Sheet 2 of 51

WETLAND PERMIT IMPACT SUMMARY														
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS							
			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	-L- 45+20 to 46+80 L.T.	N/A	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0	0	0
2	-L- 85+00 to 91+25 RT.	30" RCP	1.00	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	310	0	0
TOTALS:			1.00	0.00	0.00	0.09	0.00	0.00	0.03	0.00	0.00	310	0	0

U-4444AA

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 WBS - 36492.1.2 (U-4444AA)
 SHEET 2/26/2009

Permit Drawing
 Sheet 3 of 51

WETLAND PERMIT IMPACT SUMMARY														
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS						
			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)		
3	-L- 130+00 to 138+00 RT.	54" RCP	4.53	0.00	0.22	0.29	0.00	0.00	0.08	0.00	0.00	681	0	0
4	-Y3RPA- 28+00 to 23+10	3 @ 36" RCP	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109	0	0
5	-Y3RPA- 14+84 to 12+89	N/A	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
TOTALS:			4.84	0.00	0.22	0.29	0.00	0.08	0.00	0.00	0.00	790	0	0

U-4444AB

SITE 3: ADDITIONAL IMPACTS INSIDE-Y3LPD- 0.808 ACRES
 SITE 3: ADDITIONAL IMPACTS OUTSIDE -Y3RPD- 0.138 ACRES

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 CUMBERLAND COUNTY
 WBS - 36492.1.2 (U-4444AB)
 2/26/2009

ATN Revised 3/3/05

Permit Drawing
 Sheet 4 of 51

STATE	NC
PROJECT NO.	U-4444A
DATE	3/29/2009
DESIGNER	STP-380(U)
CHECKER	PE

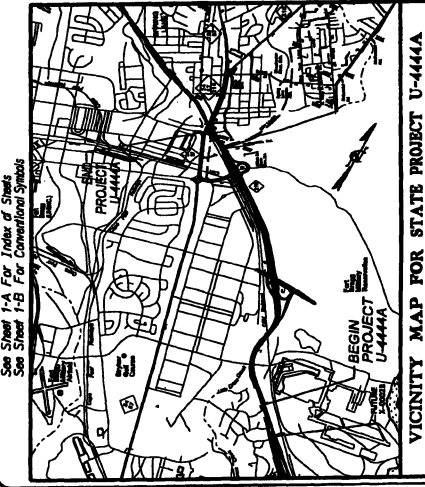
Permit Drawing
Sheet 5 of 51

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CUMBERLAND COUNTY

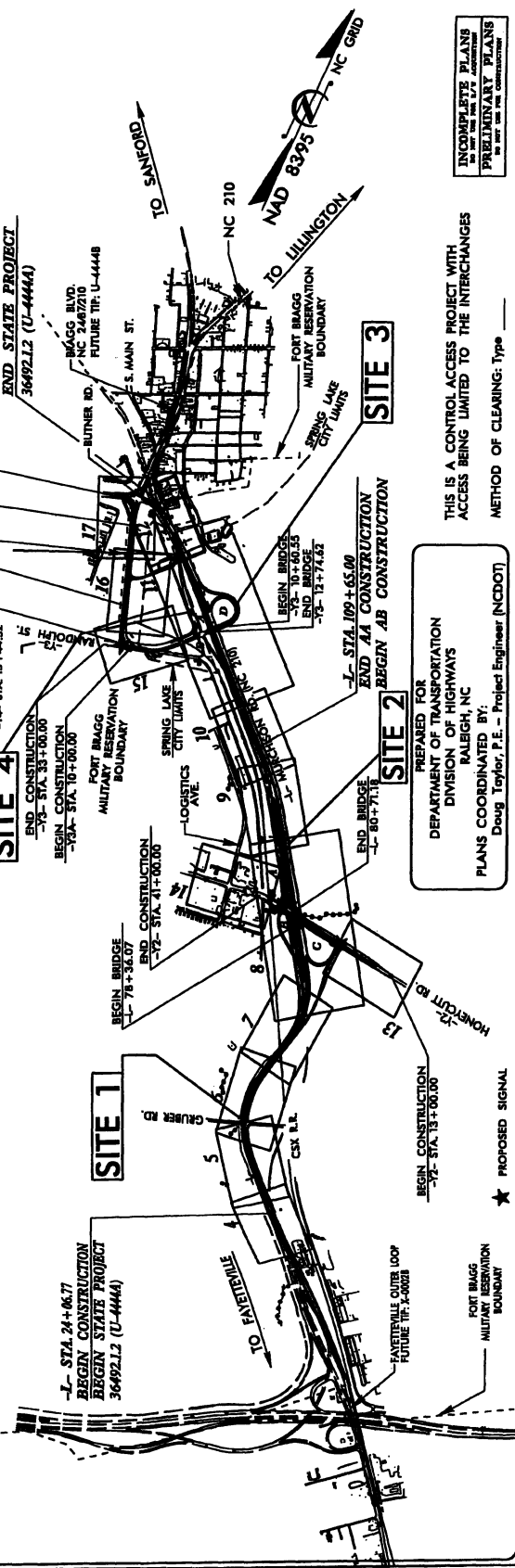
LOCATION: NC 210 (MURCHISON ROAD) FROM FAYETTEVILLE OUTER LOOP TO BUTNER RD.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES

WETLAND/STREAM IMPACTS



VICINITY MAP FOR STATE PROJECT U-4444A



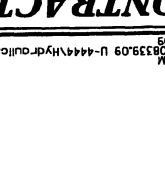
INCOMPLETE PLANS
PRELIMINARY PLANS
DO NOT BE CONSIDERED

THIS IS A CONTROL ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGES
METHOD OF CLEARING: Type _____

PREPARED FOR
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, NC
PLANS COORDINATED BY:
Doug Taylor, P.E. - Project Engineer (NCDOT)

PROJECT LENGTH
LENGTH ROADWAY TIP PROJECT U-4444A = 2.50 Miles
LENGTH STRUCTURES TIP PROJECT U-4444A = 0.44 Miles
TOTAL LENGTH STATES TIP PROJECT U-4444A = 2.94 Miles

DESIGN DATA
ADT 2005 = 45,400
ADT 2035 = 77,000
D/W = 11%
D & S = 6%
T = 6%
V = 60 MPH
* TST 2% DUAL 4%
FUNC. CLASS = URBAN (PERVA)



CONTRACT: TTP PROJECT: U-4444A



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

RIGHT OF WAY DATE: March 28, 2009
LETTING DATE: September 15, 2009

Prepared in the Office of
L. SCHMIDT
S.E. 1001 W. 10th St.
Raleigh, NC 27615

BRIAN K. EASON, PE
PROJECT MANAGER

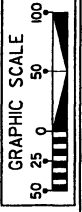
DAVID W. MARTIN
PROJECT CHECKER

PROJECT SERVICES NO. U-4444
 SHEET NO. 06
 HORIZONTAL CONTROL
 ESTABLISHED

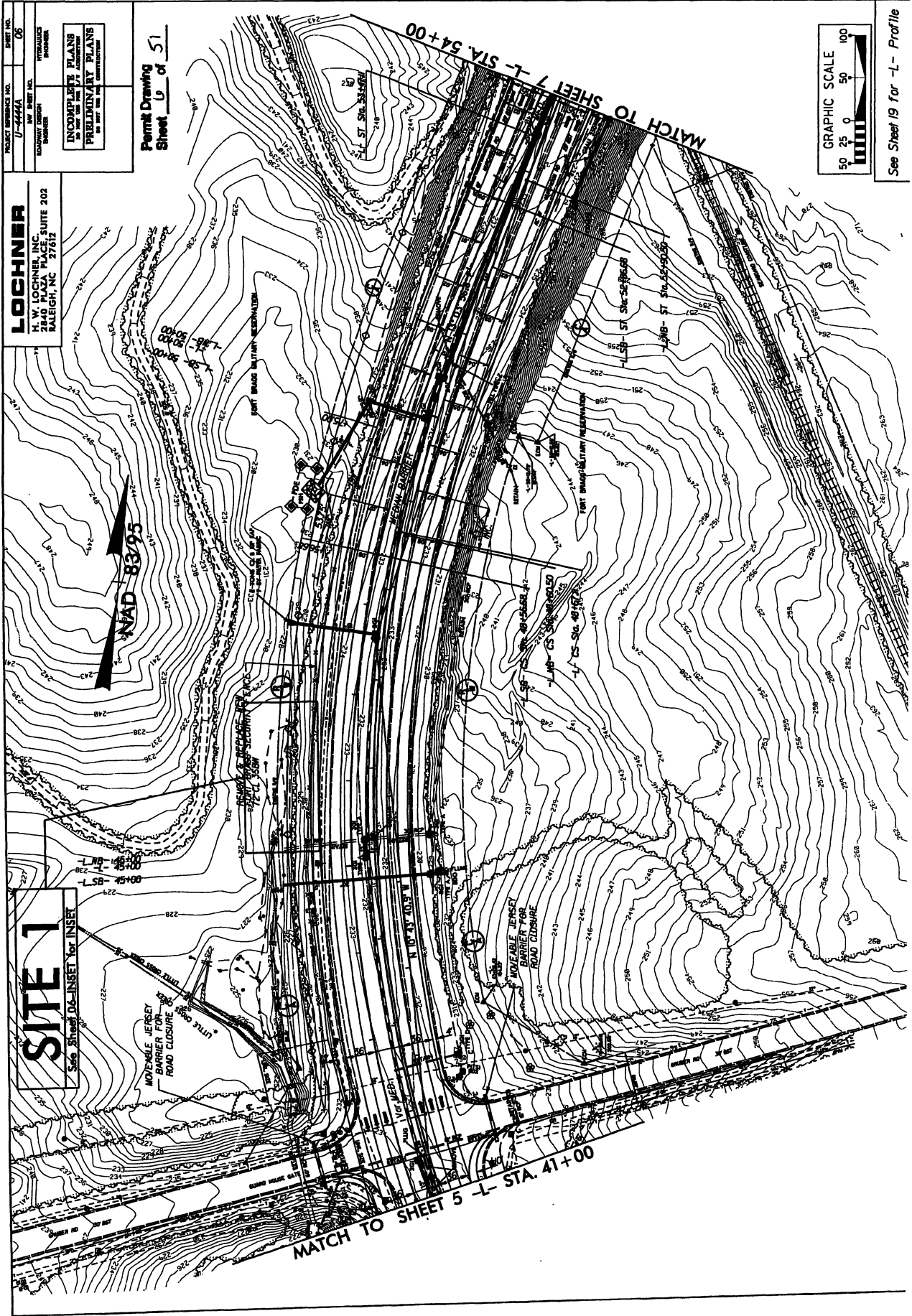
INCORPORATE PLANS AS NOTED ON THE PREVIOUS SHEET	PRELIMINARY PLANS NO WARRANTY

Permit Drawing
 Sheet 6 of 51

LOCHNER
 H. W. LOCHNER, INC.
 2340 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612



See Sheet 19 for L- Profile



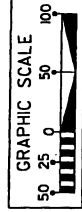
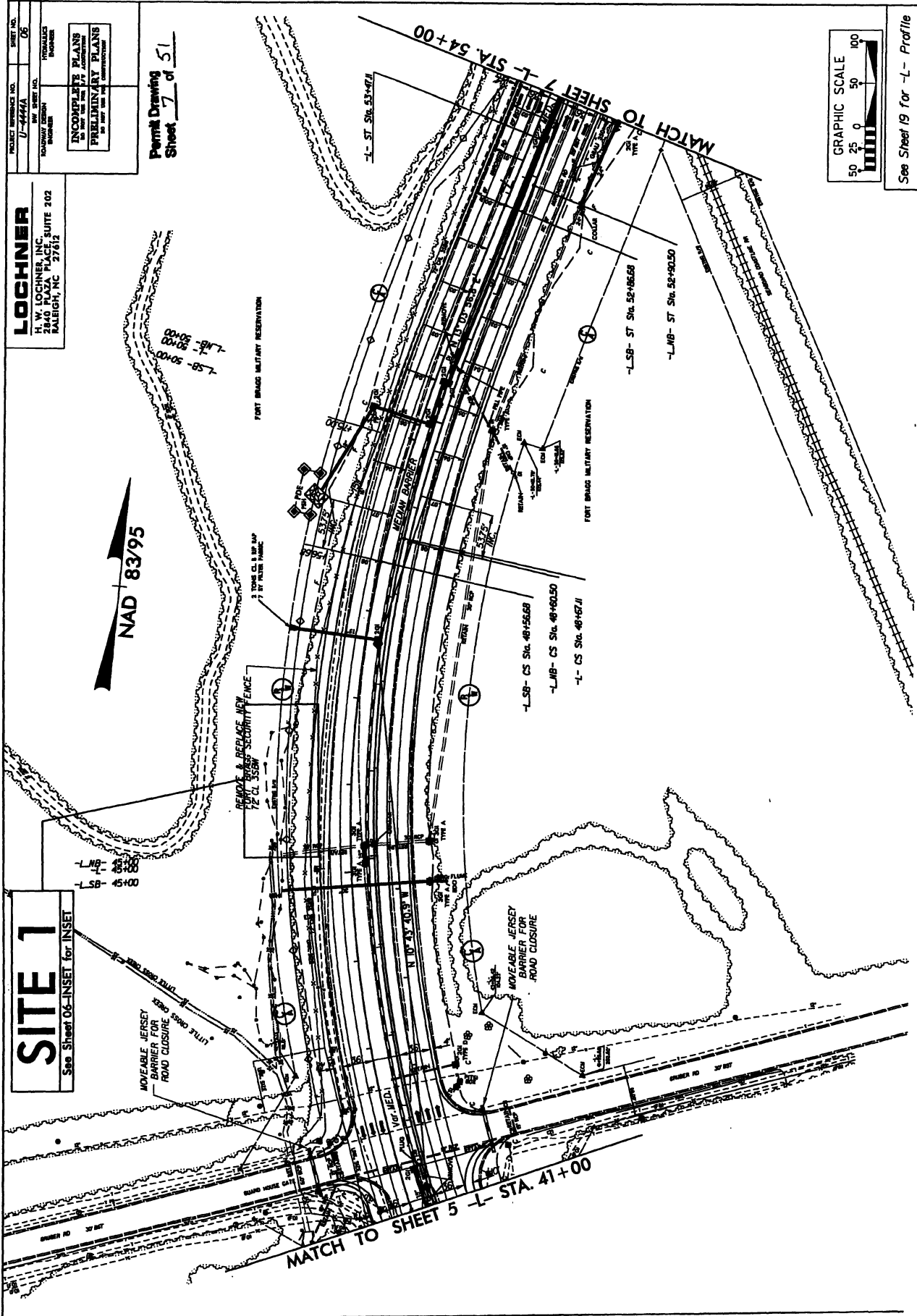
PROJECT REFERENCE NO. U-4447A
 SHEET NO. 06
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 INCOMPLETE PLANS
 PRELIMINARY PLANS
 FOR THE USE OF THE CONTRACTOR

LOCHNER
 H. W. LOCHNER, INC.
 2449 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27611

Permit Drawing
 Sheet 7 of 51



SITE 1
 See Sheet 06-INSET for INSET

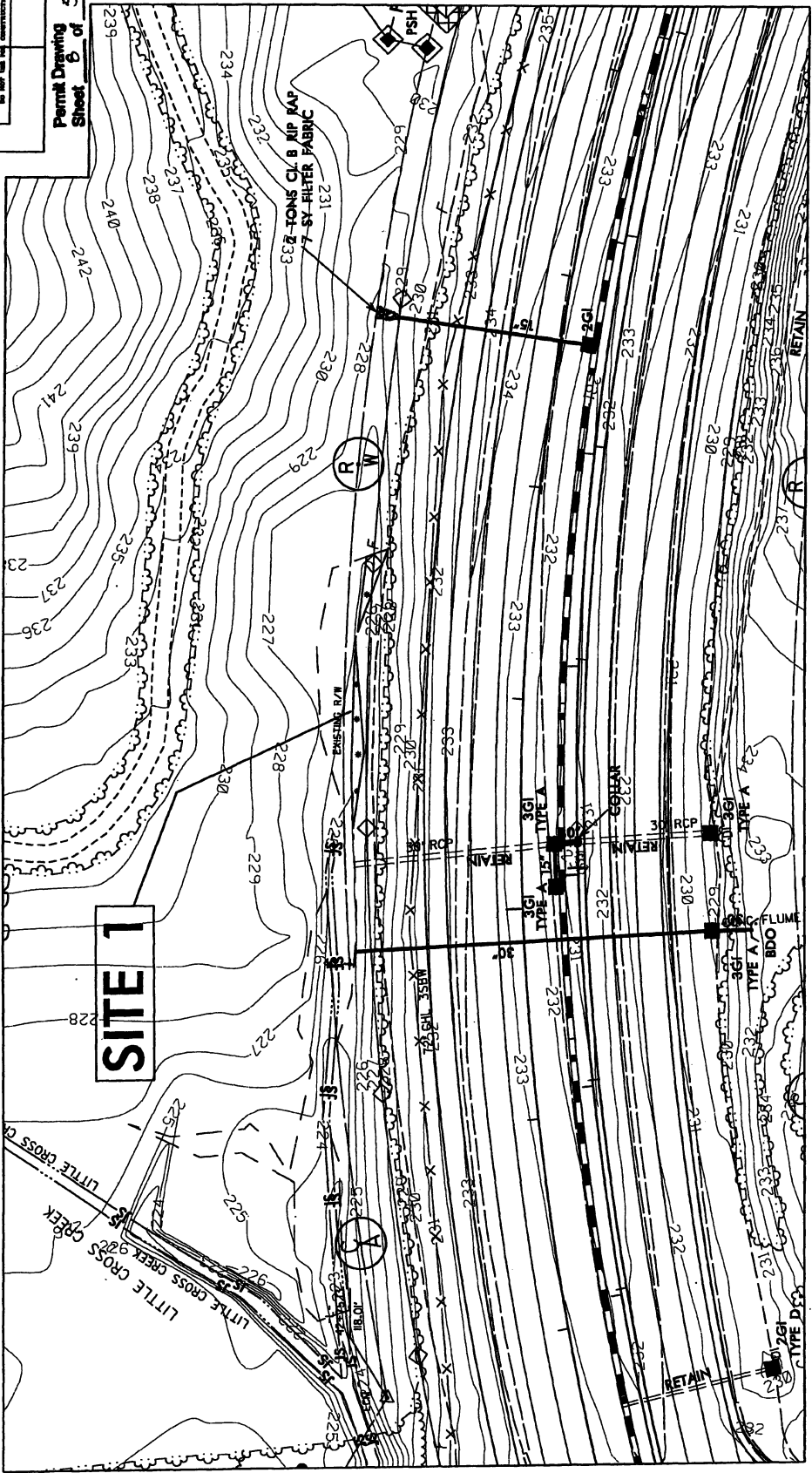


See Sheet 19 for -L- Profile

PROJECT REFERENCE NO. U-4444A	SHEET NO. 08-71527
ROADWAY DESIGN DRAWING	FOR AGENCIES FOR REVIEW
INCOMPLETE PLANS IN THE TOP RIGHT CORNER PRELIMINARY PLANS IN THE BOTTOM RIGHT CORNER	



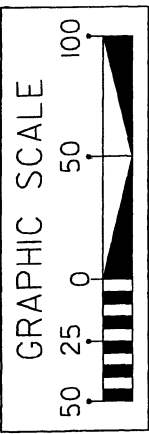
Permit Drawing
Sheet B of 51



PROJECT: 36492.1.2 (U-4444A)

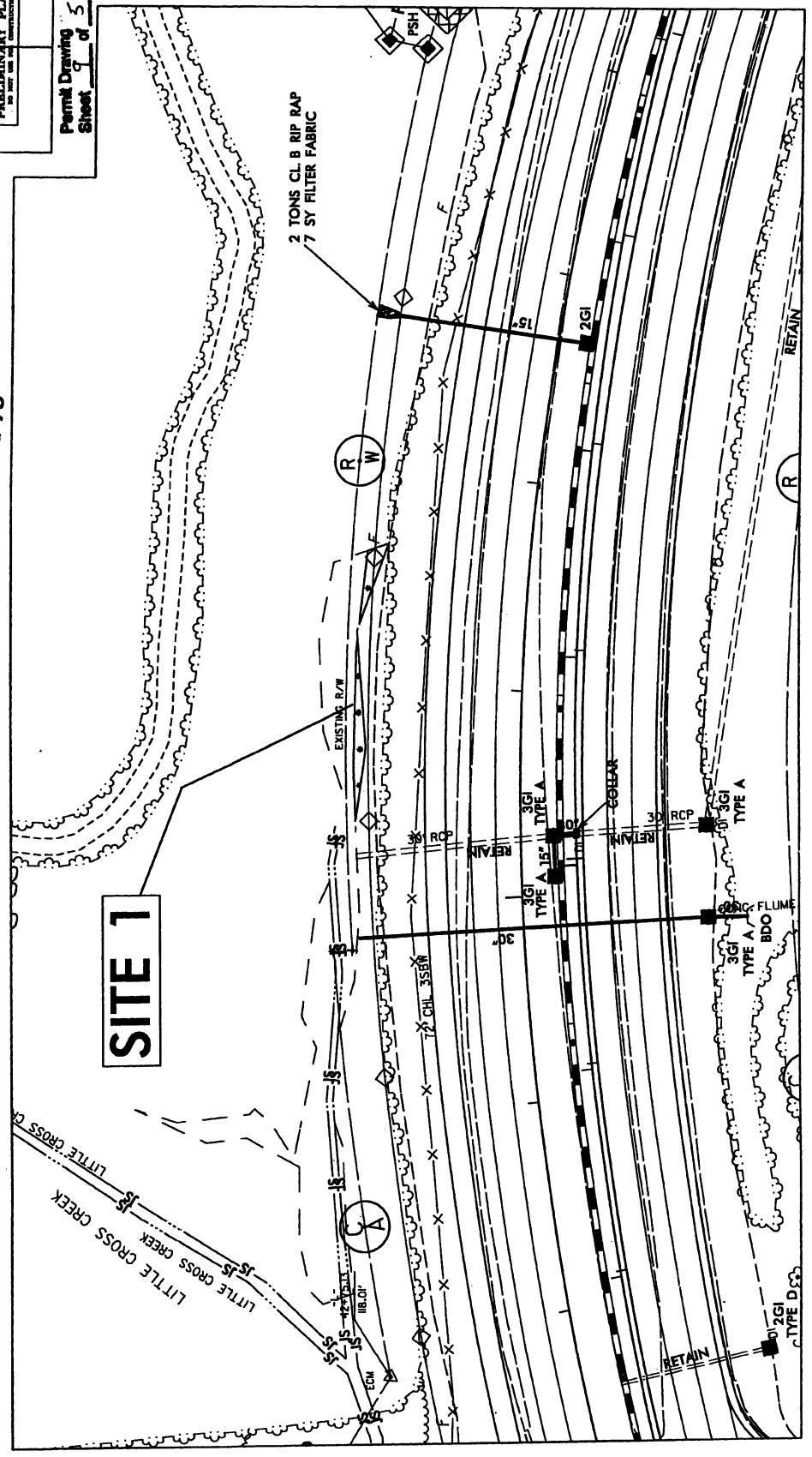
SITE I
(STREAM IER)
(WETLAND IER)

••••• DENOTES MECHANIZED CLEARING



PROJECT REFERENCE NO. U-4444A	SHEET NO. 08-INSET
PLANNING DESIGN ENGINEER	HYDRAULIC ENGINEER
INCOMPLETE PLANS PRELIMINARY PLANS NOT BE USED FOR CONSTRUCTION	

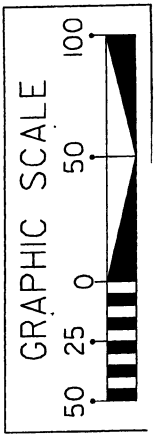
Permit Drawing
Sheet 9 of 51



PROJECT: 36492.1.2 (U-4444AA)

SITE 1

(STREAM IER)
(WETLAND IER)

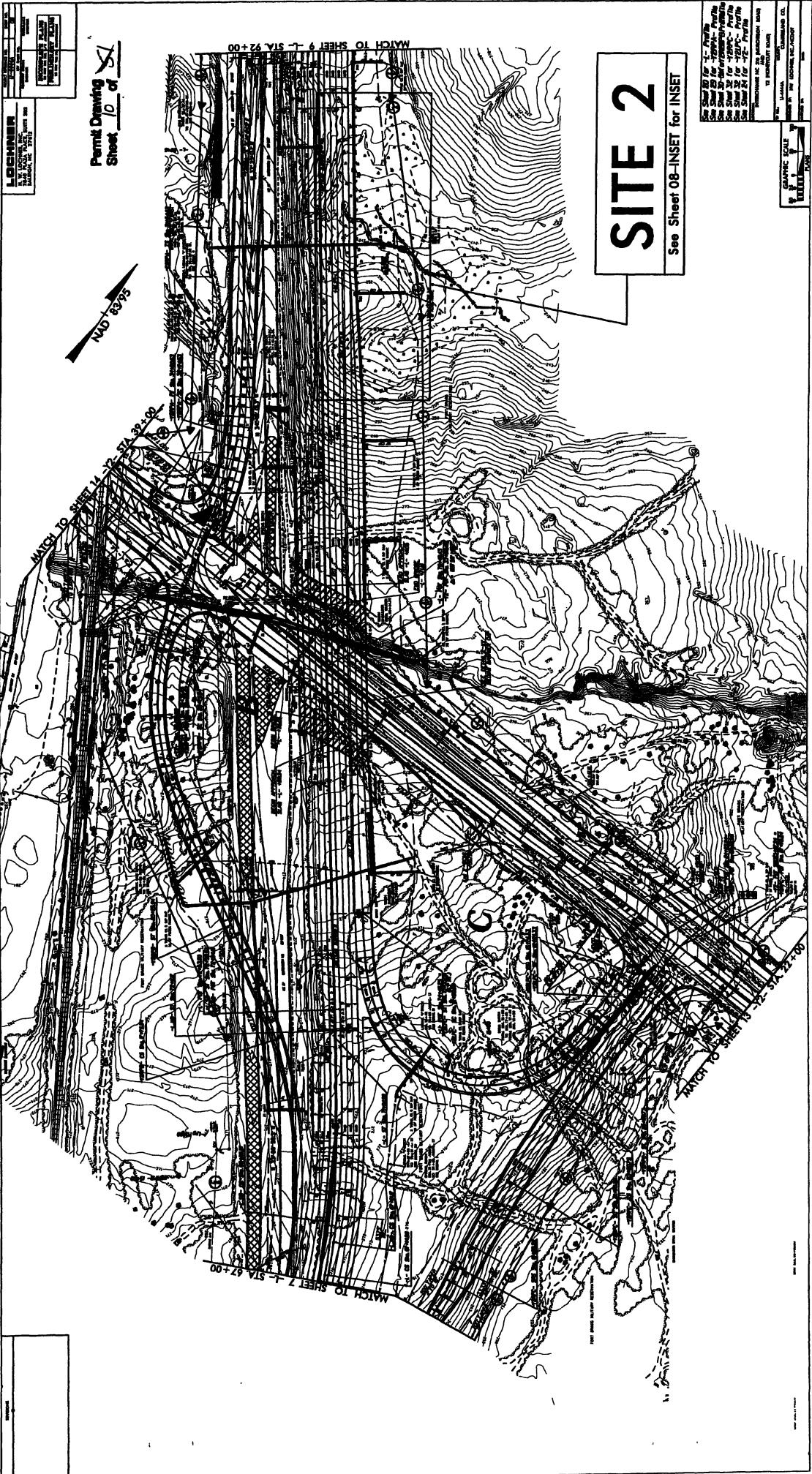


••••• DENOTES MECHANIZED CLEARING

LOCHNER
 1111 N. 10th St., Suite 100
 Lincoln, NE 68502
 (402) 441-1111
 FAX (402) 441-1112

PERMIT DRAWING
 PROJECT NO. 10-1000
 SHEET NO. 10 OF 11

Permit Drawing
Sheet 10 of 11



SITE 2
 See Sheet 08-INSET for INSET

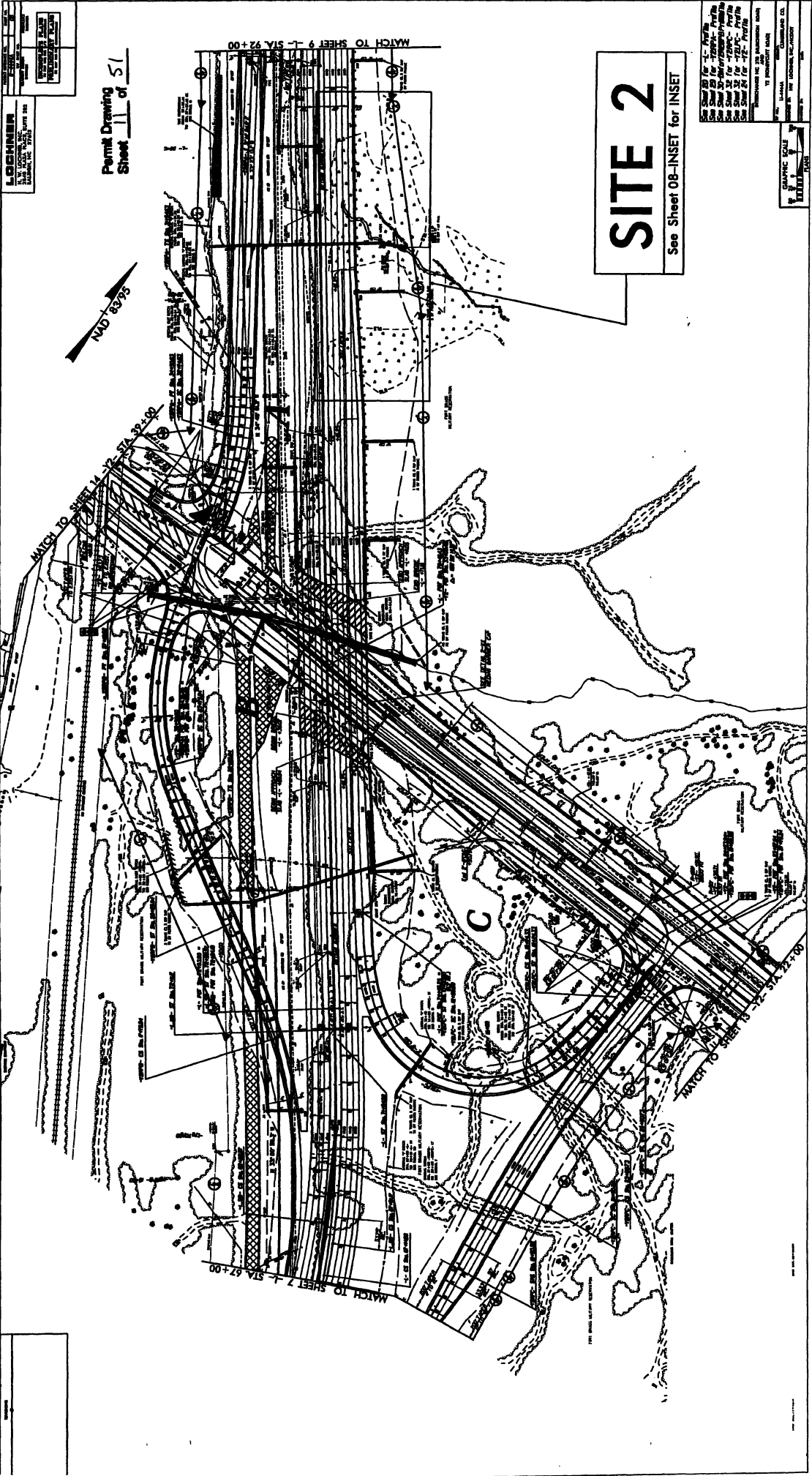
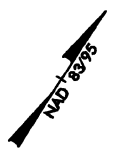
SCALE: 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'
 1" = 100'



LOCHNER
 2100 W. 10th St.
 Lincoln, NE 68502
 (402) 441-1111

PERMIT DRAWING
 PREPARED BY
 ENGINEER/ARCHITECT

Permit Drawing
Sheet 11 of 51



SITE 2

See Sheet 08-INSET for INSET


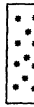

Sheet 08 for - 100% Profile	Sheet 09 for - 100% Profile	Sheet 10 for - 100% Profile	Sheet 11 for - 100% Profile	Sheet 12 for - 100% Profile	Sheet 13 for - 100% Profile	Sheet 14 for - 100% Profile	Sheet 15 for - 100% Profile	Sheet 16 for - 100% Profile	Sheet 17 for - 100% Profile	Sheet 18 for - 100% Profile	Sheet 19 for - 100% Profile	Sheet 20 for - 100% Profile	Sheet 21 for - 100% Profile	Sheet 22 for - 100% Profile	Sheet 23 for - 100% Profile	Sheet 24 for - 100% Profile	Sheet 25 for - 100% Profile	Sheet 26 for - 100% Profile	Sheet 27 for - 100% Profile	Sheet 28 for - 100% Profile	Sheet 29 for - 100% Profile	Sheet 30 for - 100% Profile	Sheet 31 for - 100% Profile	Sheet 32 for - 100% Profile	Sheet 33 for - 100% Profile	Sheet 34 for - 100% Profile	Sheet 35 for - 100% Profile	Sheet 36 for - 100% Profile	Sheet 37 for - 100% Profile	Sheet 38 for - 100% Profile	Sheet 39 for - 100% Profile	Sheet 40 for - 100% Profile	Sheet 41 for - 100% Profile	Sheet 42 for - 100% Profile	Sheet 43 for - 100% Profile	Sheet 44 for - 100% Profile	Sheet 45 for - 100% Profile	Sheet 46 for - 100% Profile	Sheet 47 for - 100% Profile	Sheet 48 for - 100% Profile	Sheet 49 for - 100% Profile	Sheet 50 for - 100% Profile	Sheet 51 for - 100% Profile
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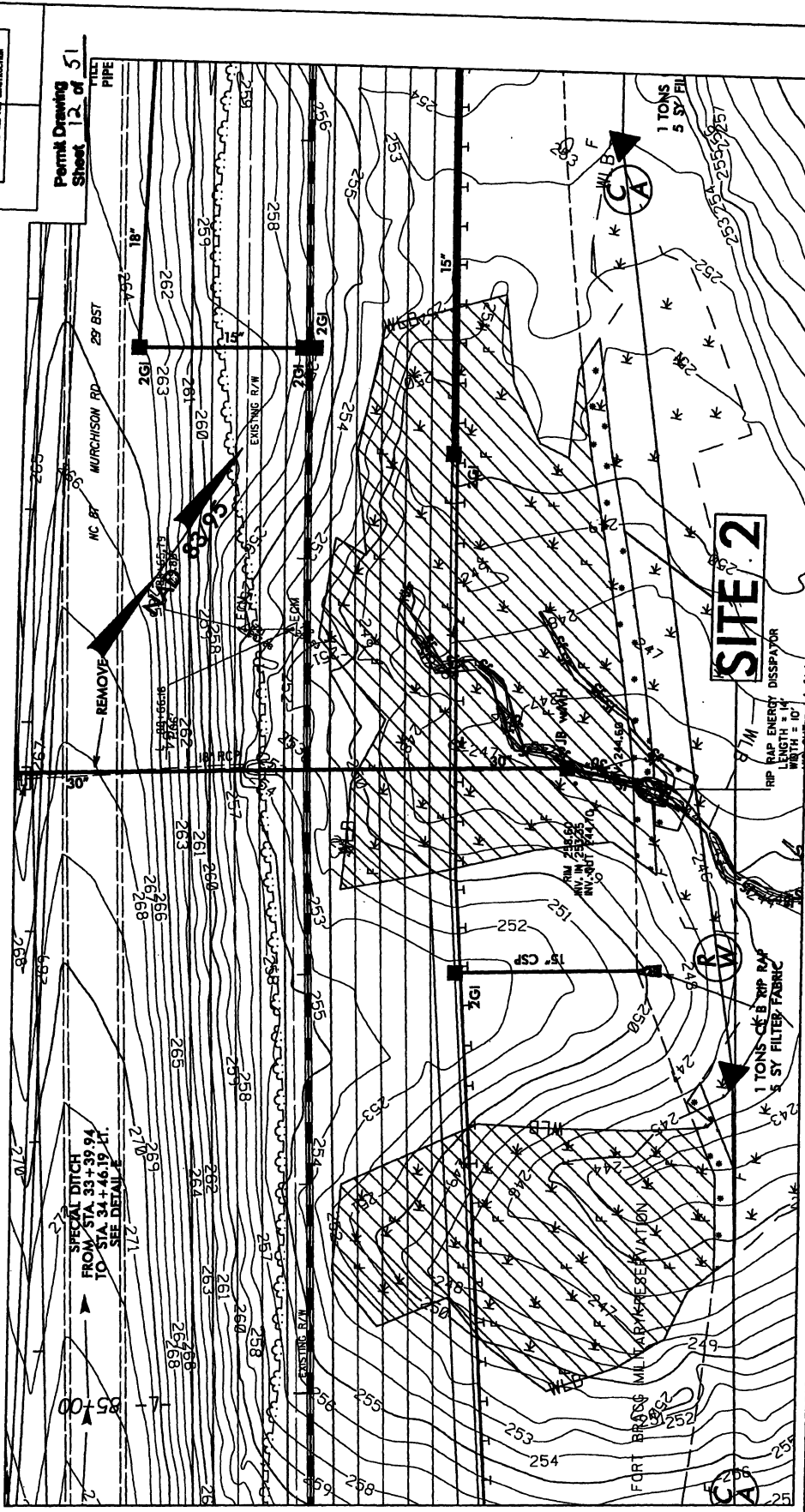
GRAPHIC SCALE
 1" = 100'

PROJECT REFERENCE NO. U-4444A
 SHEET NO. 08-105E7
 DRAWING TITLE: MURCHISON RD. 29' BST
 DATE: 11/15/07
 DRAWN BY: J. B. [unreadable]
 CHECKED BY: [unreadable]
 APPROVED BY: [unreadable]

**INCOMPLETE PLANS
 PRELIMINARY PLANS**
 NO PART OF THIS DRAWING
 TO BE USED FOR CONSTRUCTION

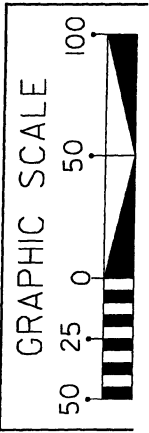
Permit Drawing
Sheet 12 of 51

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER



SITE 2

PROJECT: 36492.1.2 (U-4444AA)
 SITE 2
 (STREAM 3ER, IER)
 (WETLANDS BER, CER)



POLICE LICENSE NO.	U-4444A	PROJECT NO.	OB-71527
ROADWAY DESIGN ENGINEER		HYDRAULIC ENGINEER	
INCOMPLETE PLANS IN PART FOR THE 17 TH JUDICIAL DISTRICT PRELIMINARY PLANS TO BE USED FOR THE 17 TH JUDICIAL DISTRICT			

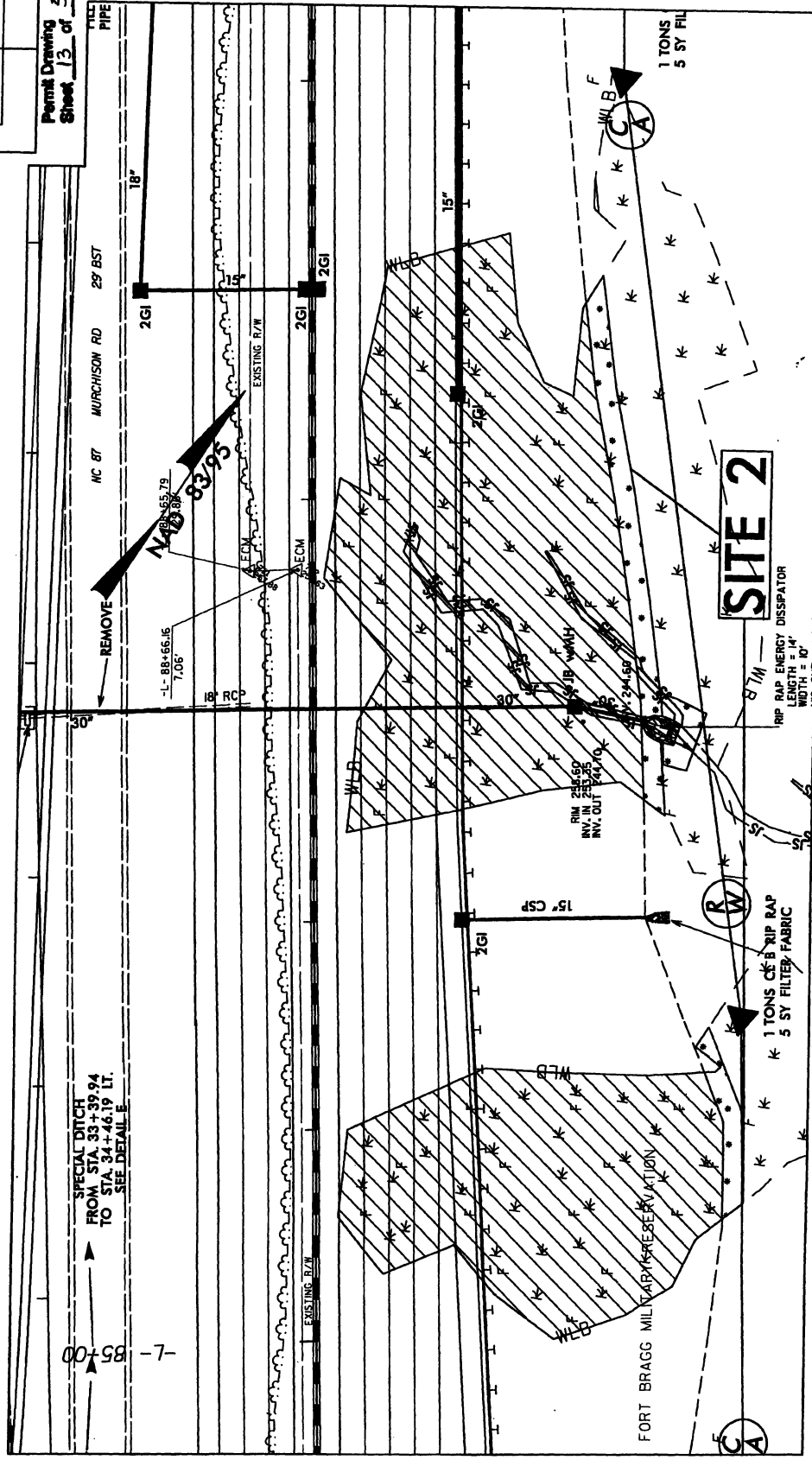
Permit Drawing
 Sheet 13 of 51

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

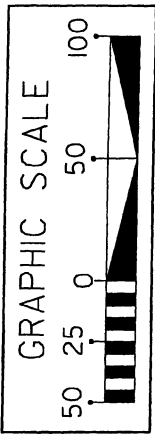
DENOTES IMPACTS IN SURFACE WATER

SPECIAL DITCH
 FROM STA. 33+39.94
 TO STA. 34+46.19 LT.
 SEE DETAIL E



SITE 2

PROJECT: 36492.1.2 (U-4444AA)
 SITE 2
 (STREAM 3ER, IIER)
 (WETLANDS BER, CER)



LOGANER
 CIVIL ENGINEERING
 1000 W. 10th St., Suite 100
 Oklahoma City, Oklahoma 73106
 Phone: (405) 521-1111
 Fax: (405) 521-1112

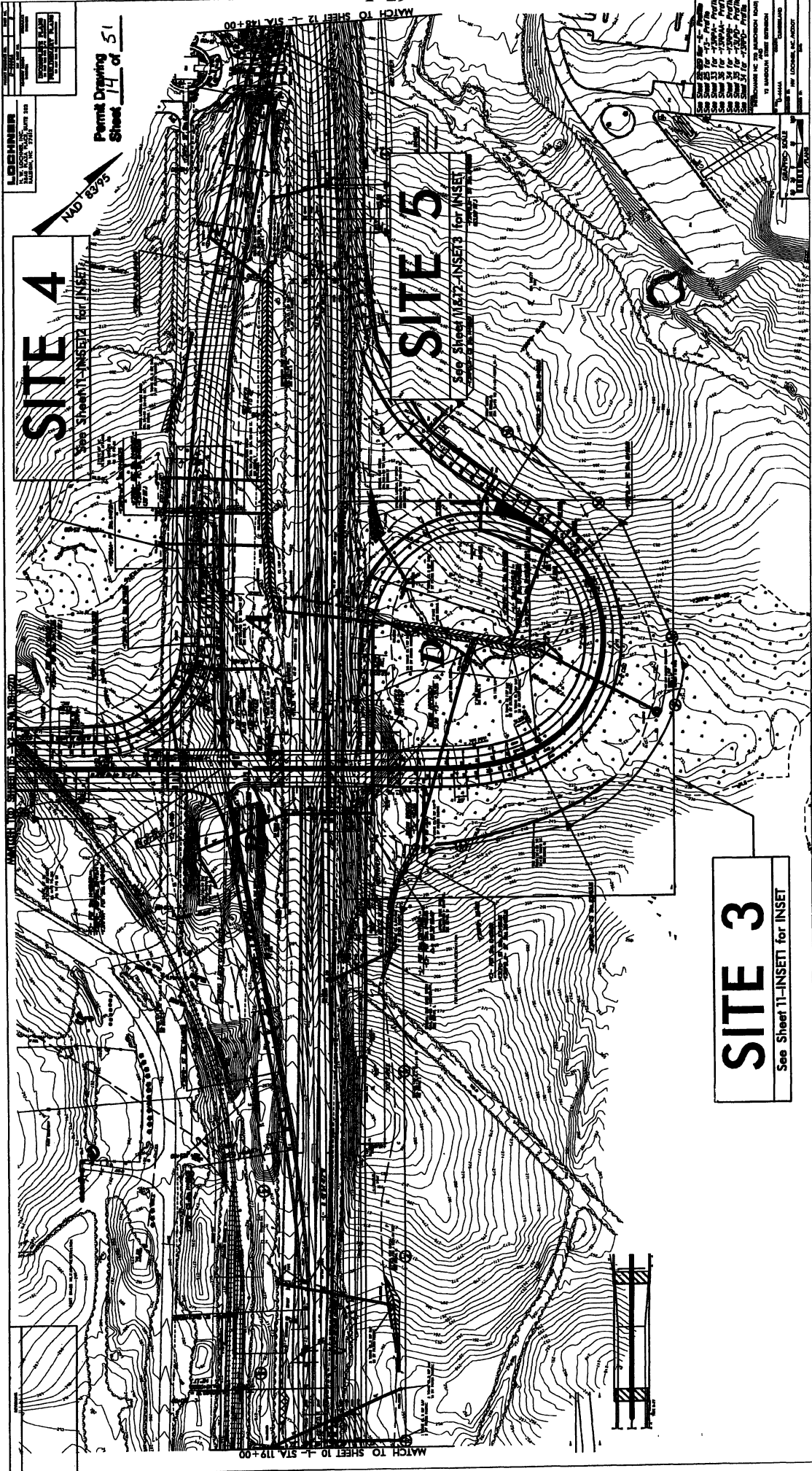
Permit Drawing
 Sheet 14 of 51

SITE 4

SITE 5

SITE 3

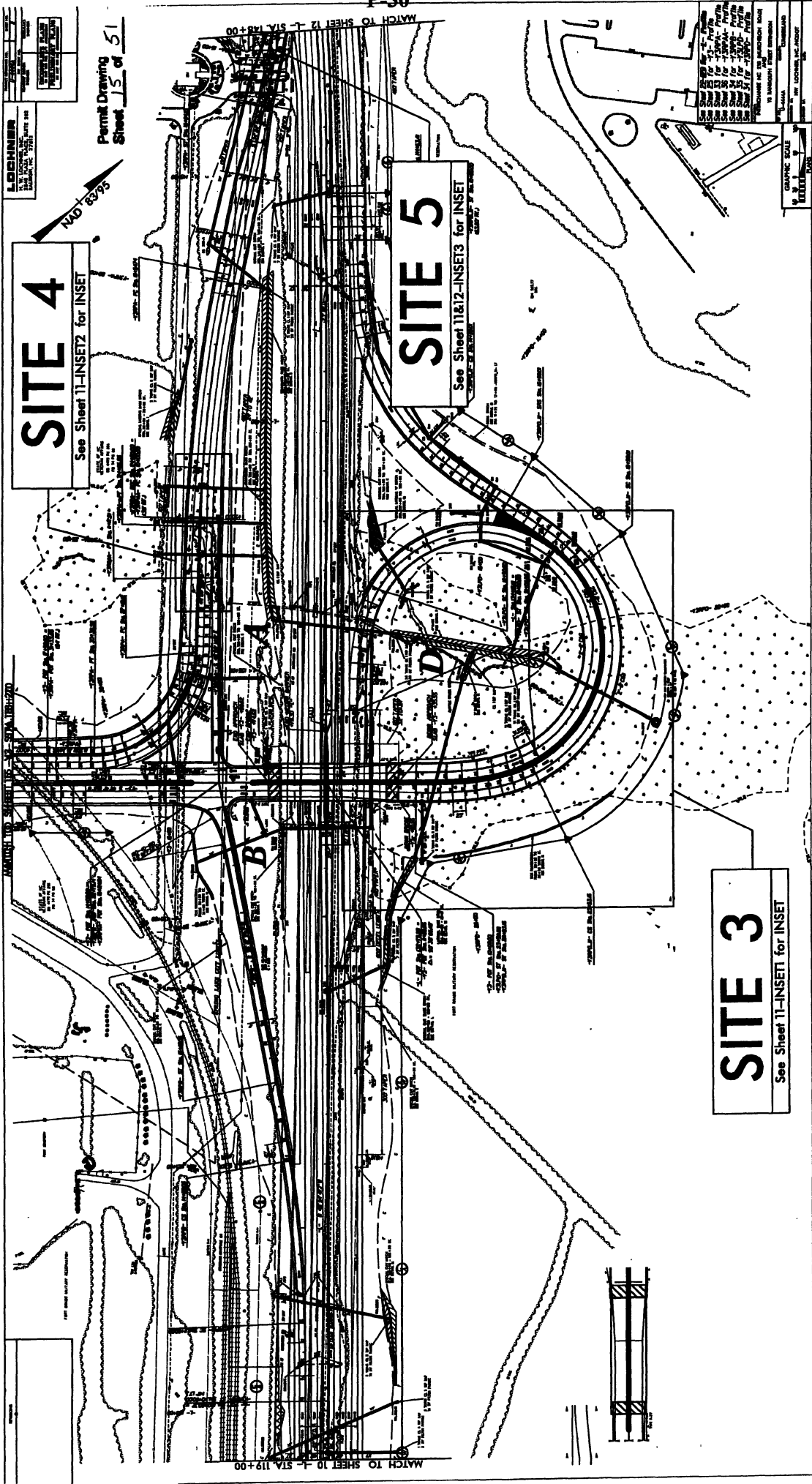
See Sheet 11-INSET for INSET



MATCH TO SHEET 10-1-SIA, 119+00

See Sheet 1657-INSET for INSET

1. This drawing is prepared for the purpose of showing the location of the proposed project on the site. It is not to be used for any other purpose without the written consent of Loganer Civil Engineering, Inc. 2. The user of this drawing is responsible for obtaining all necessary permits and approvals from the appropriate authorities. 3. The user of this drawing is responsible for obtaining all necessary easements and rights-of-way from the appropriate authorities. 4. The user of this drawing is responsible for obtaining all necessary utility information from the appropriate authorities. 5. The user of this drawing is responsible for obtaining all necessary survey information from the appropriate authorities. 6. The user of this drawing is responsible for obtaining all necessary geotechnical information from the appropriate authorities. 7. The user of this drawing is responsible for obtaining all necessary environmental information from the appropriate authorities. 8. The user of this drawing is responsible for obtaining all necessary historical information from the appropriate authorities. 9. The user of this drawing is responsible for obtaining all necessary cultural information from the appropriate authorities. 10. The user of this drawing is responsible for obtaining all necessary archaeological information from the appropriate authorities. 11. The user of this drawing is responsible for obtaining all necessary paleontological information from the appropriate authorities. 12. The user of this drawing is responsible for obtaining all necessary biological information from the appropriate authorities. 13. The user of this drawing is responsible for obtaining all necessary geological information from the appropriate authorities. 14. The user of this drawing is responsible for obtaining all necessary hydrological information from the appropriate authorities. 15. The user of this drawing is responsible for obtaining all necessary meteorological information from the appropriate authorities. 16. The user of this drawing is responsible for obtaining all necessary climatological information from the appropriate authorities. 17. The user of this drawing is responsible for obtaining all necessary oceanographic information from the appropriate authorities. 18. The user of this drawing is responsible for obtaining all necessary limnological information from the appropriate authorities. 19. The user of this drawing is responsible for obtaining all necessary glaciological information from the appropriate authorities. 20. The user of this drawing is responsible for obtaining all necessary geodetic information from the appropriate authorities. 21. The user of this drawing is responsible for obtaining all necessary geomatics information from the appropriate authorities. 22. The user of this drawing is responsible for obtaining all necessary cartographic information from the appropriate authorities. 23. The user of this drawing is responsible for obtaining all necessary geographic information from the appropriate authorities. 24. The user of this drawing is responsible for obtaining all necessary spatial information from the appropriate authorities. 25. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities. 26. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities. 27. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities. 28. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities. 29. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities. 30. The user of this drawing is responsible for obtaining all necessary geospatial information from the appropriate authorities.



LEONHNER
 ARCHITECTS
 1000 N. GARDEN ST.
 SUITE 100
 DENVER, CO 80202

SITE 4
 See Sheet 11-INSET2 for INSET

Permit Drawing
 Sheet 5 of 51



SITE 5
 See Sheet 11&12-INSET3 for INSET

SITE 3
 See Sheet 11-INSET1 for INSET

CONTRACTOR'S SCALE
 1" = 10'-0"

PROJ. NO. 11-0000
DATE: 11/11/00
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

FOR LORAIN, INC. PROJECT

MATCH TO SHEET 10 - STA 119+00

MATCH TO SHEET 12 - STA 120+00

SECTION 11-1
 SECTION 11-2
 SECTION 11-3
 SECTION 11-4
 SECTION 11-5
 SECTION 11-6
 SECTION 11-7
 SECTION 11-8
 SECTION 11-9
 SECTION 11-10

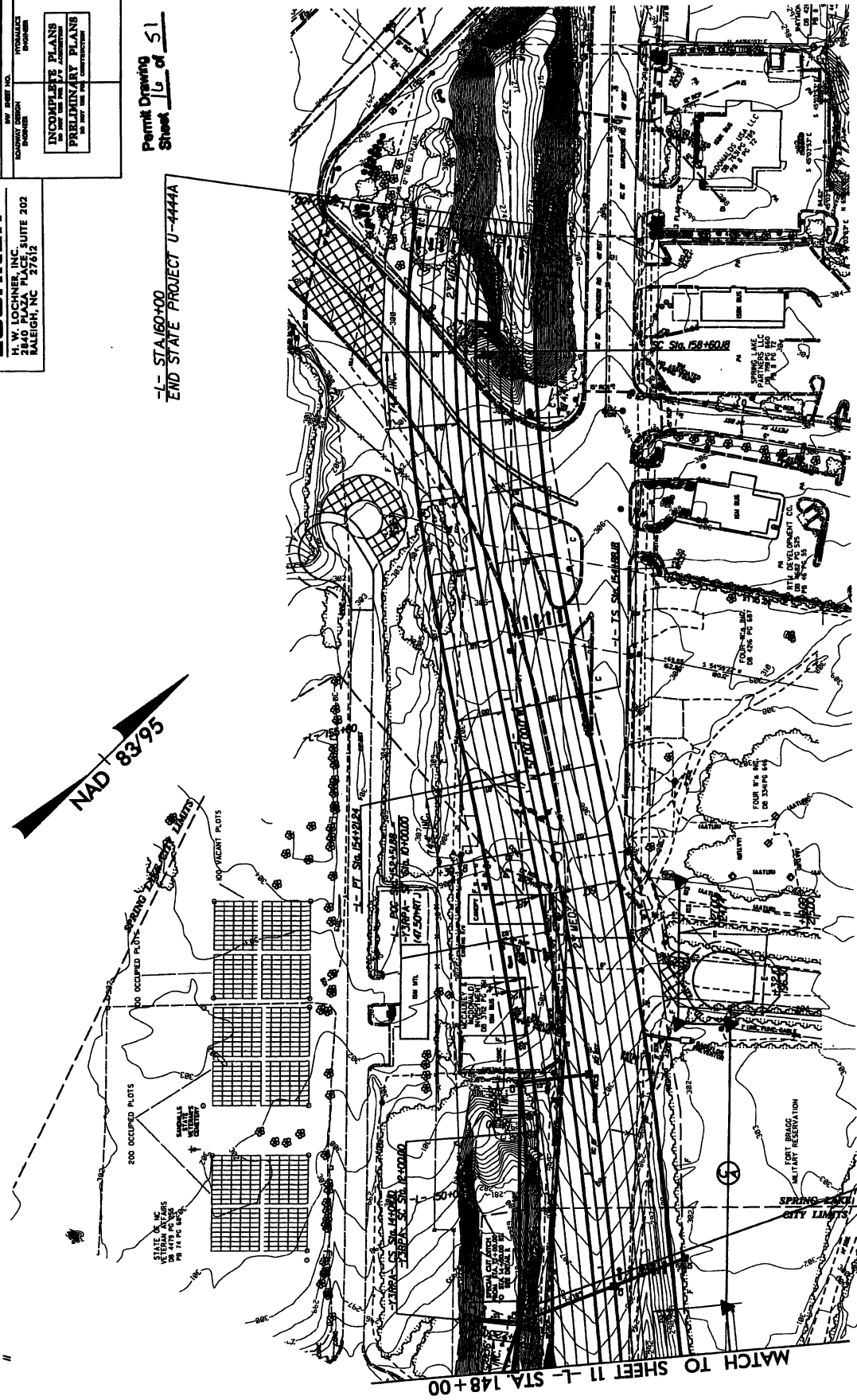
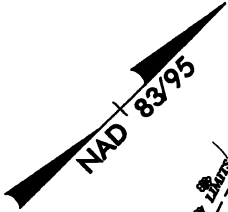
MATCH TO SHEET 10 - STA 119+00

PROJECT REFERENCE NO.	U-4444A
SHEET NO.	12
BY	ENGINEER
CHECKED BY	ENGINEER
DATE	
APPROVED BY	
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

LOCHNER
 14 W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612

Permit Drawing
 Sheet 12 of 51

-L- STA. 160+00
 END STATE PROJECT U-4444A



SITE 5
 See Sheet 11&12-INSET3 for INSET

See Sheet 23 for -L- Profile
 See Sheet 33 for -Y3RPA- Profile

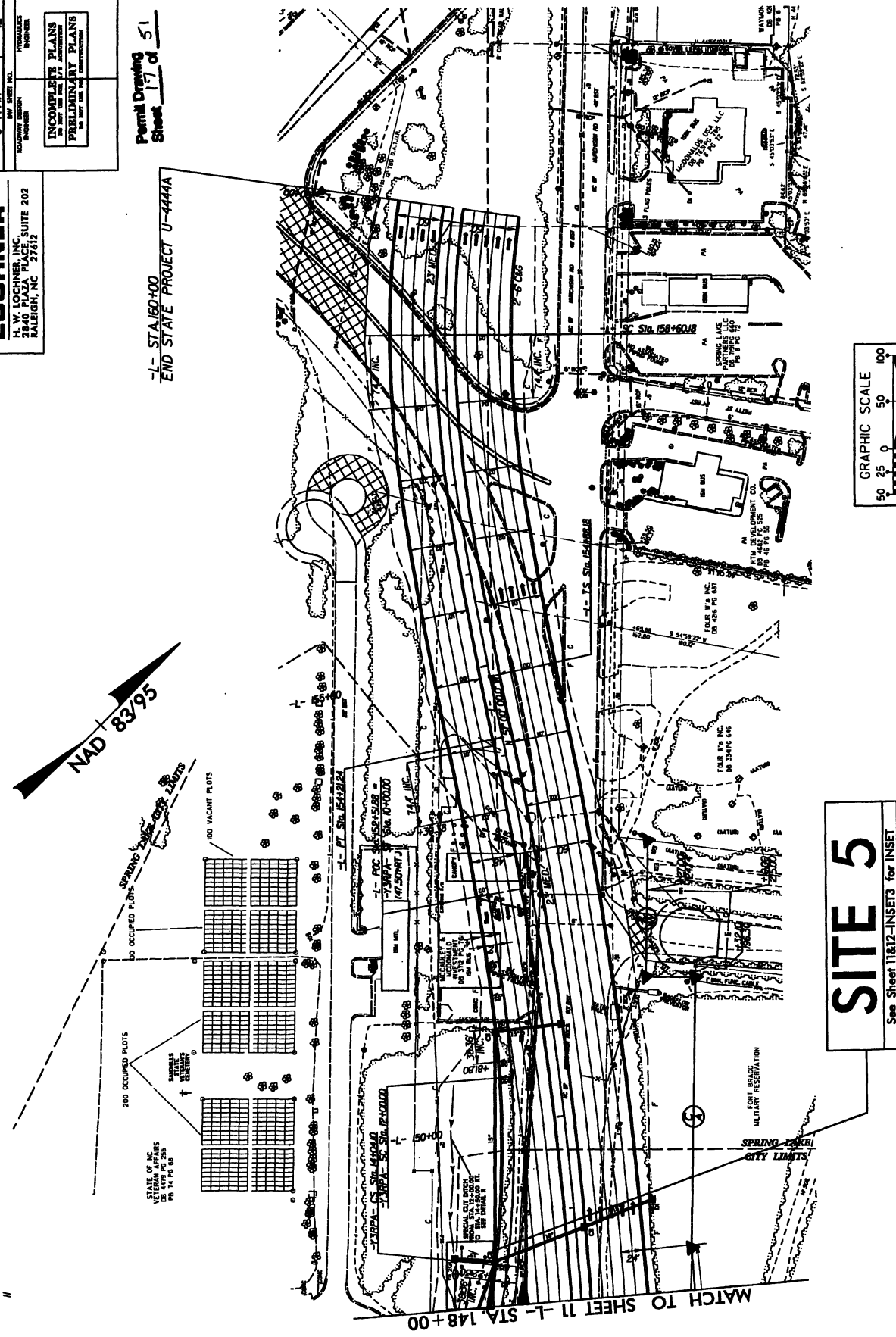
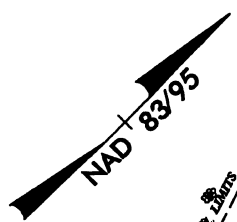
MATCH TO SHEET 11 -L- STA. 148+00

LOCHNER
11 W. LOCHNER INC
3140 HAZEL PLACE SUITE 202
RALEIGH, NC 27612

PROJECT REFERENCE NO. U-4444	SHEET NO. 12
PROPOSAL RESUBMITTAL	DATE 12/15/11
DESIGNER LOCHNER	DATE 12/15/11
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet 17 of 51

-L- STA.160+00
END STATE PROJECT U-4444A







SITE 5
See Sheet 11&12-INSET3 for INSET

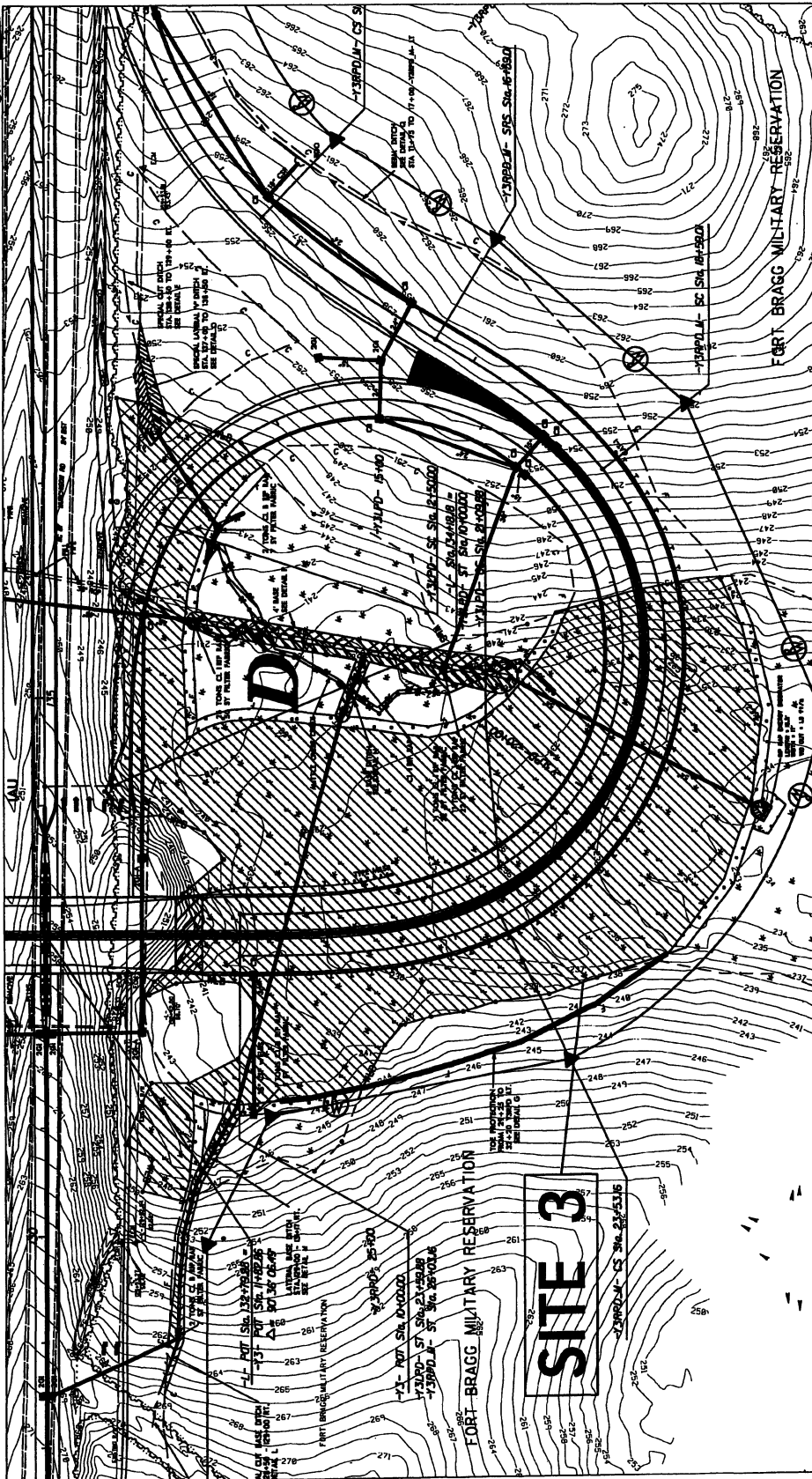
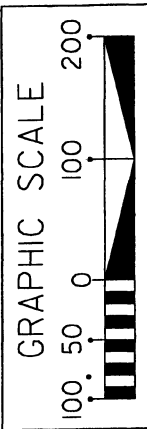
See Sheet 23 for -L- Profile
See Sheet 11 for -Y-APP-1- Profile

PROJECT: WETLANDS INC.	DRAWING NO:	DATE:
U-444A	U-444A	11-11-87
DESIGNED BY:	CHECKED BY:	DATE:
HYDRAULICS ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS ON THIS SHEET AND ALL ADJACENT PRELIMINARY PLANS ARE NOT FOR CONSTRUCTION		



Permit Drawing
 Sheet 16 of 51

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLAND



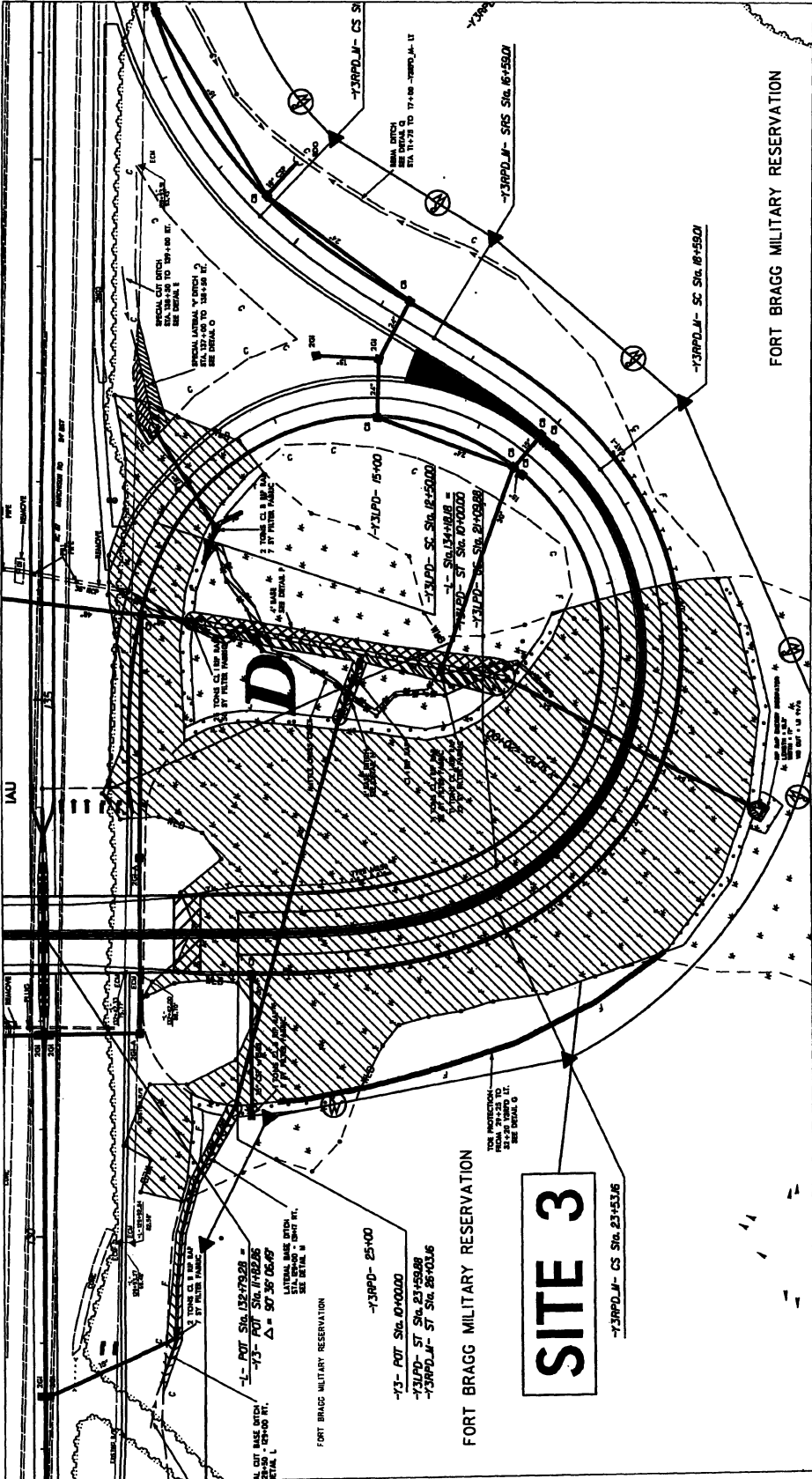
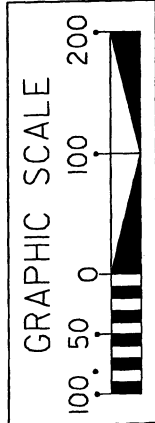
PROJECT: 36492.1.2 (U-4444AB)
 SITE 3
 (STREAM 6R, 8R, 9R, 10ER)
 (WETLAND EER)

PROJECT REFERENCE NO.	SHEET NO.
U-4444	7-10577
ROADWAY DESIGN	HYDRAULIC ENGINEER
INCOMPLET E PLANS IN ANY PART OF ANY PRELIMINARY PLANS ARE NOT TO BE CONSIDERED	

Permit Drawing
Street 19 of 51



- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND



PROJECT: 36492.1.2 (U-4444AB)
SITE 3
FORT BRAGG MILITARY RESERVATION
(STREAM 6ER, 8ER, 9ER, 10ER)
(WETLAND EER)

PROJECT REFERENCE NO. U-4444A	SHEET NO. II-INSET 2
DATE OF SHEET NO. 10/15/12	ISSUANCE REVISIONS
DESIGNED BY MURKIN	DRAWN BY MURKIN
INCOMPLETE PLANS PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

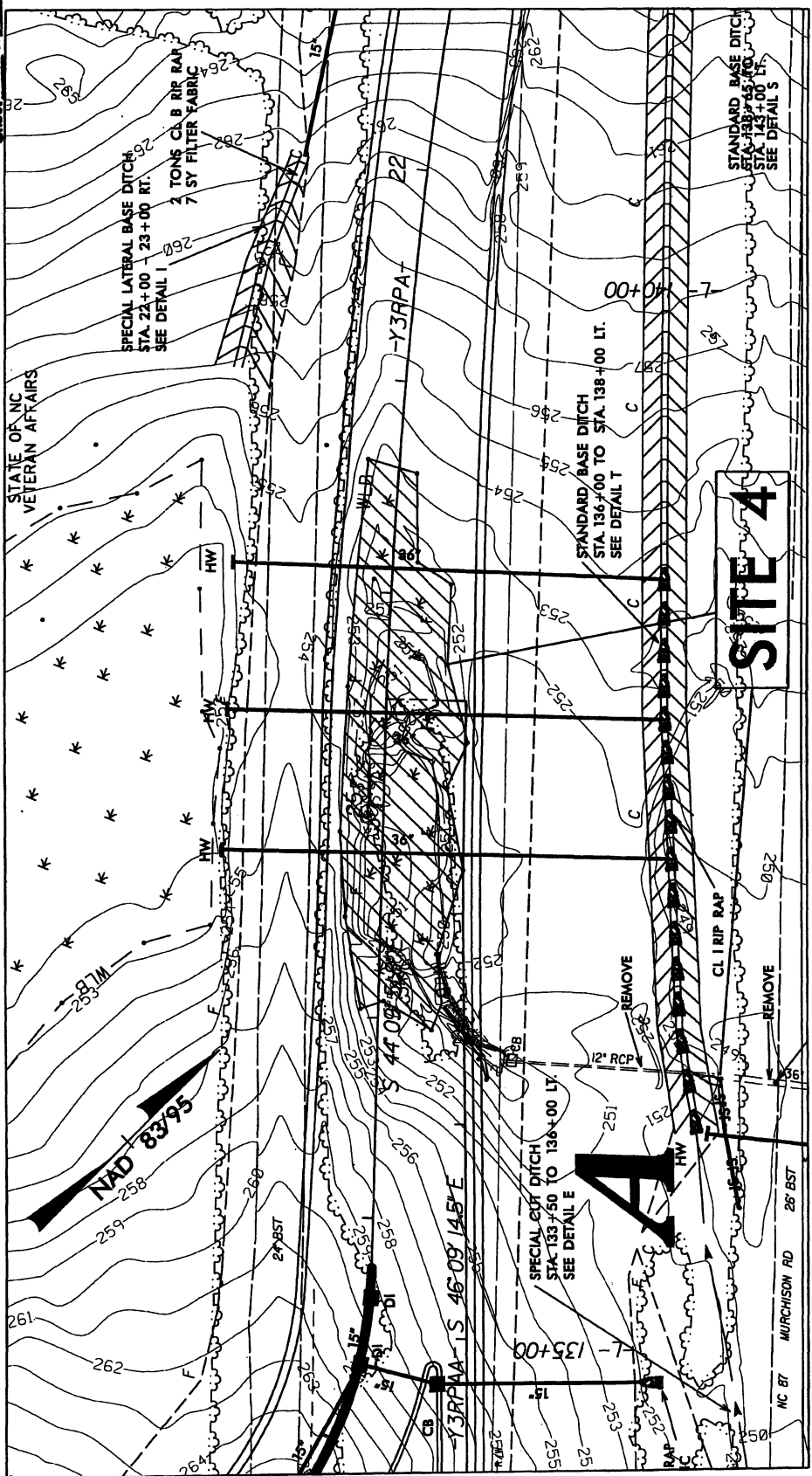
DENOTES IMPACTS IN SURFACE WATER



DENOTES FILL IN WETLAND



Permit Drawing
Sheet 20 of 51



(STREAM 6TB, 7TB)
(WETLAND FTB)

PROJECT: 36492.1.2 (U-4444AB)

SITE 4

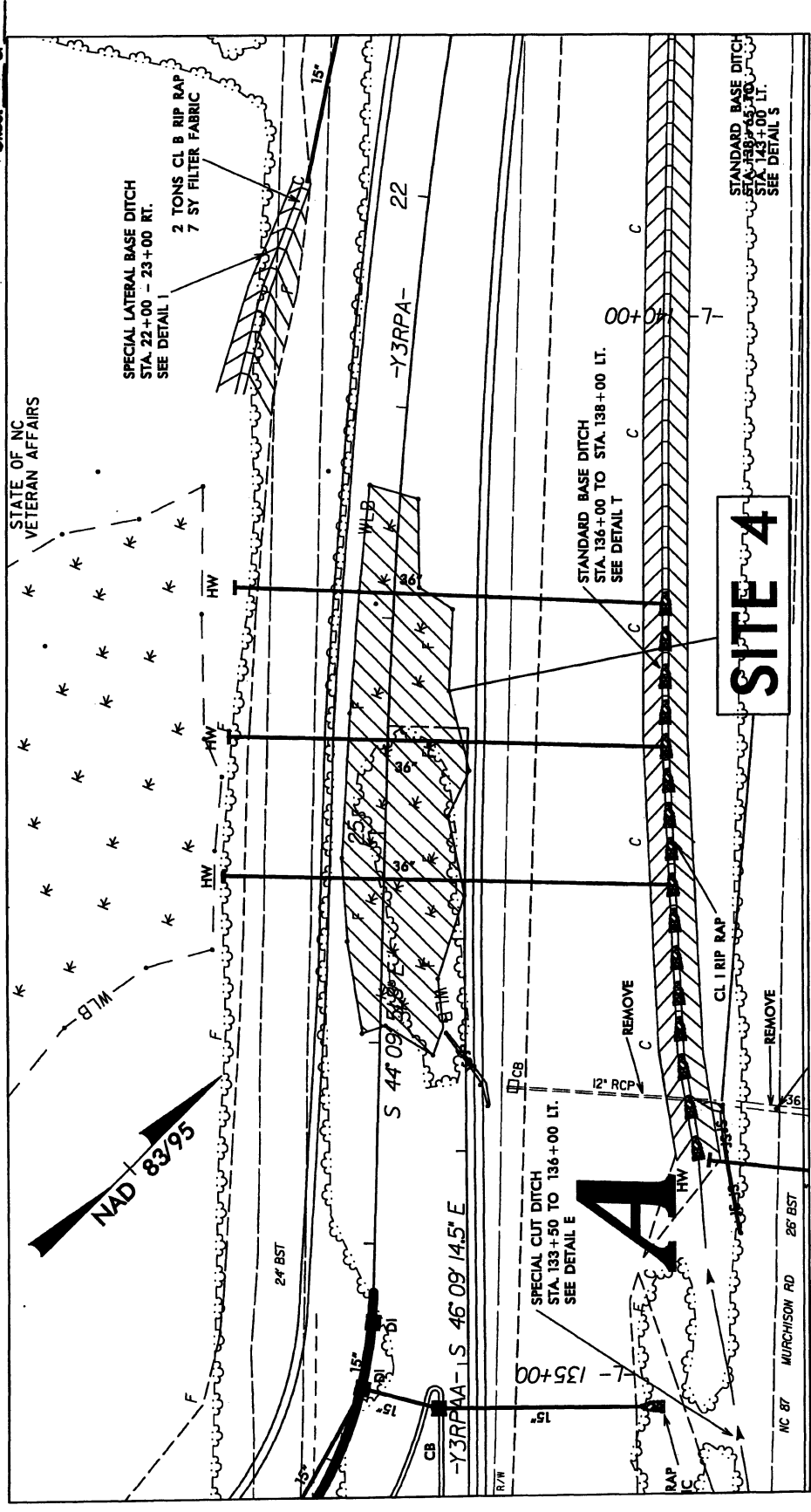
PROJECT REFERENCE NO. U-4444A
 SHEET NO. 1-11512
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

INCOMPLETE PLANS
 PRELIMINARY PLANS
 NOT FOR CONSTRUCTION

Permit Drawing
Sheet 21 of 51

DENOTES FILL IN WETLAND

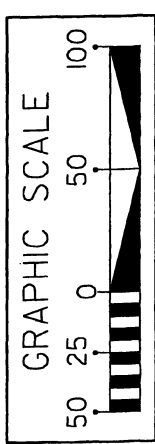
DENOTES IMPACTS IN SURFACE WATER



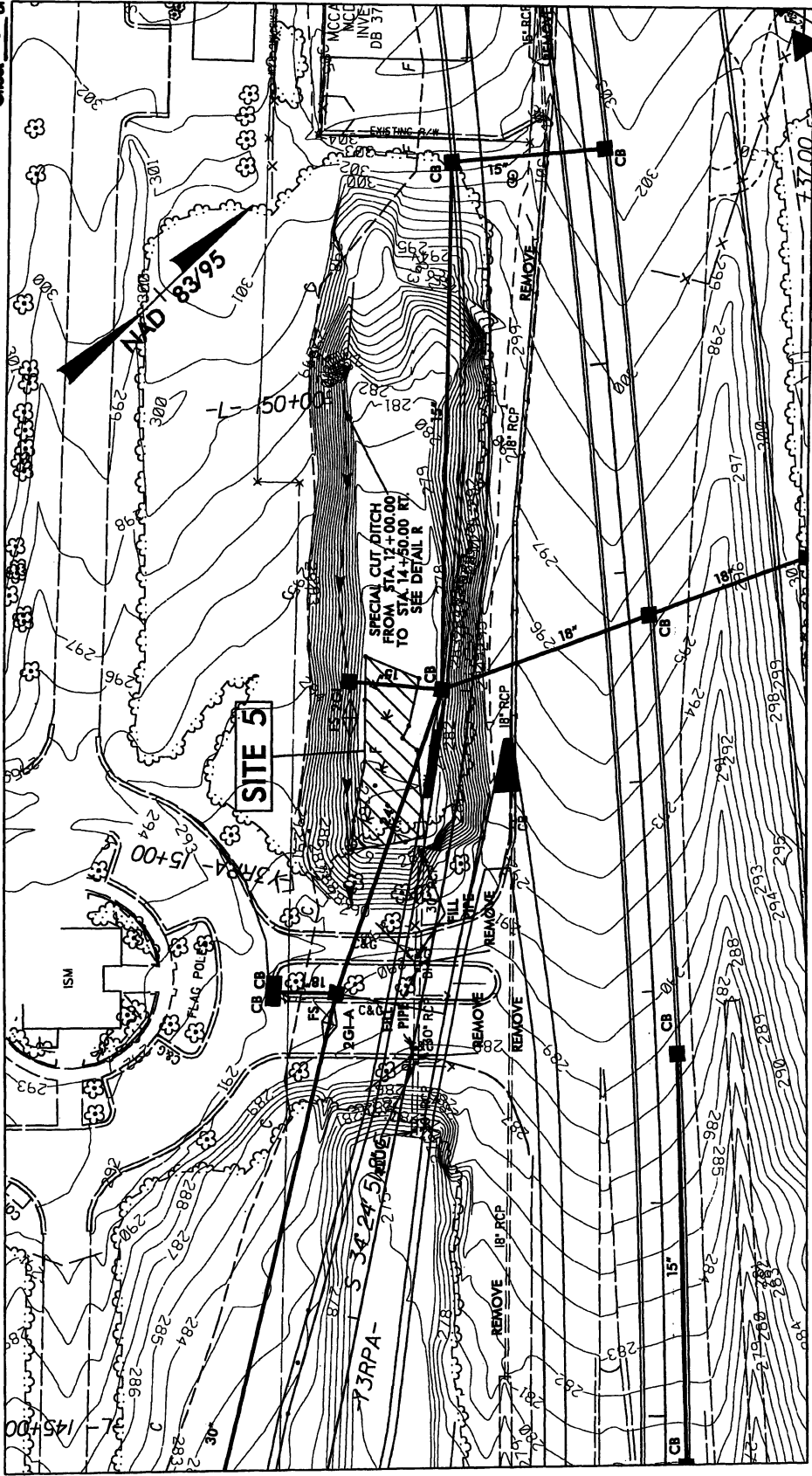
PROJECT: 36492.1.2 (U-4444AB)
 SITE 4
 (STREAM 6TB, 7TB)
 (WETLAND FTB)

PROJECT REFERENCE NO. U-4444	SHEET NO. 18/2-115E/3
DESIGNED BY HYDRAULICS ENGINEER	CHECKED BY HYDRAULICS ENGINEER
INCOMPLETE PLANS FOR PERMITTING PRELIMINARY PLANS FOR CONSTRUCTION	

Permit Drawing
Sheet 2.2 of 5.1



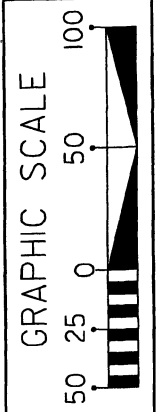
DENOTES FILL IN
WETLAND



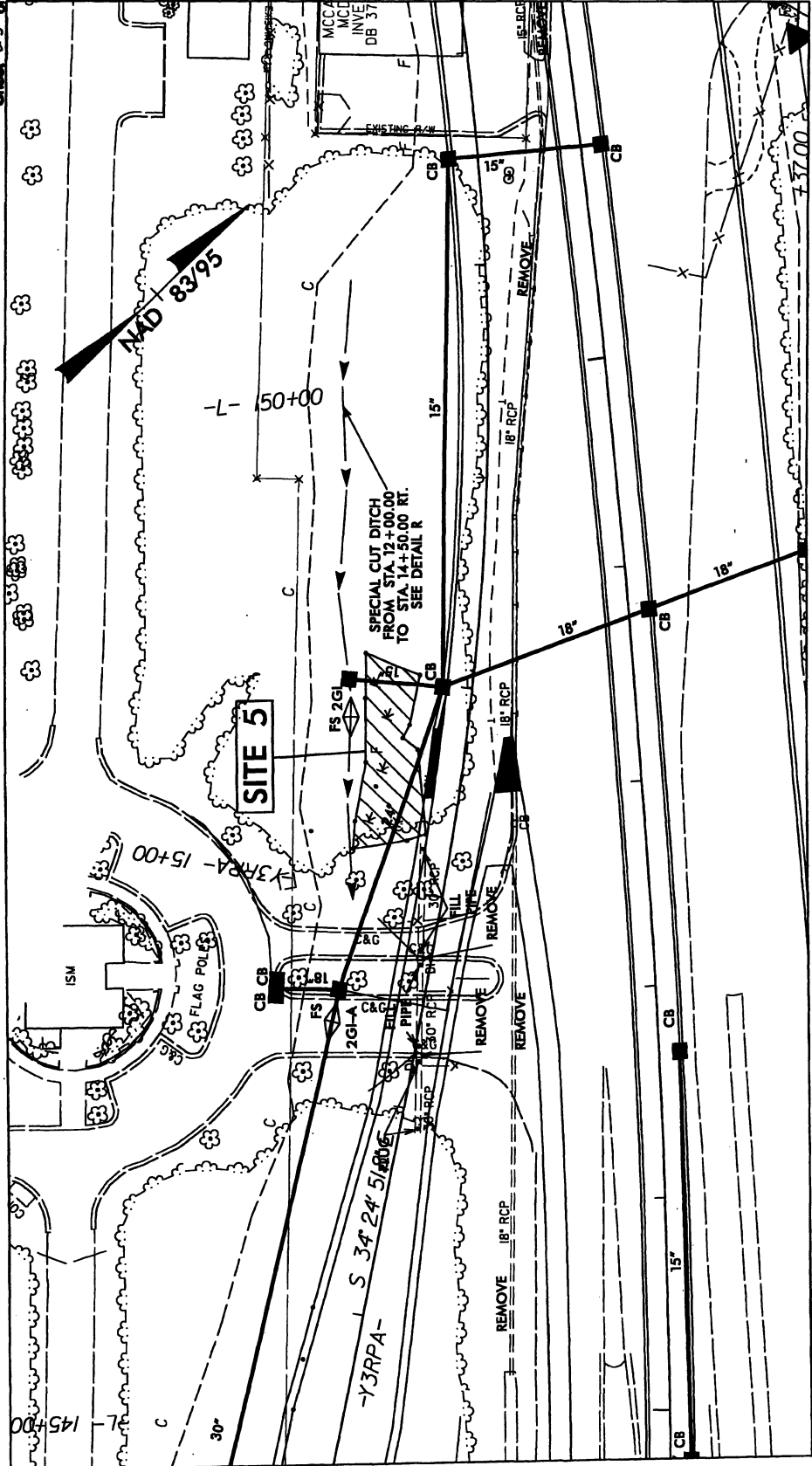
PROJECT: 36492.1.2 (U-4444AB)
 WETLAND HER)
 SITE 5

PROJECT REFERENCE NO.	U-4444A	SHEET NO.	1162-11SET3
DESIGNER		DATE	
REVISIONS		APPROVED	
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

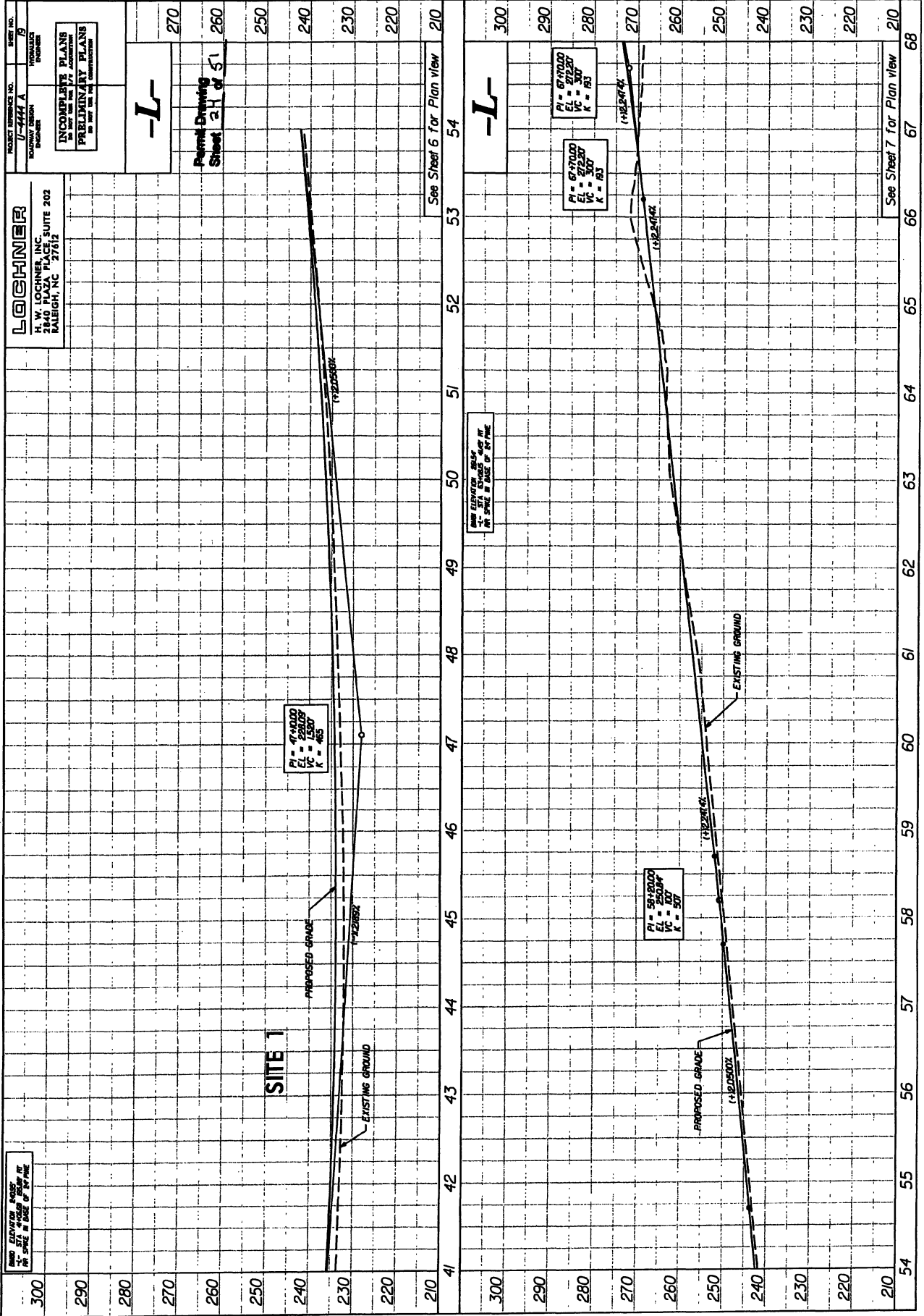
Permit Drawing
Sheet 23 of 51

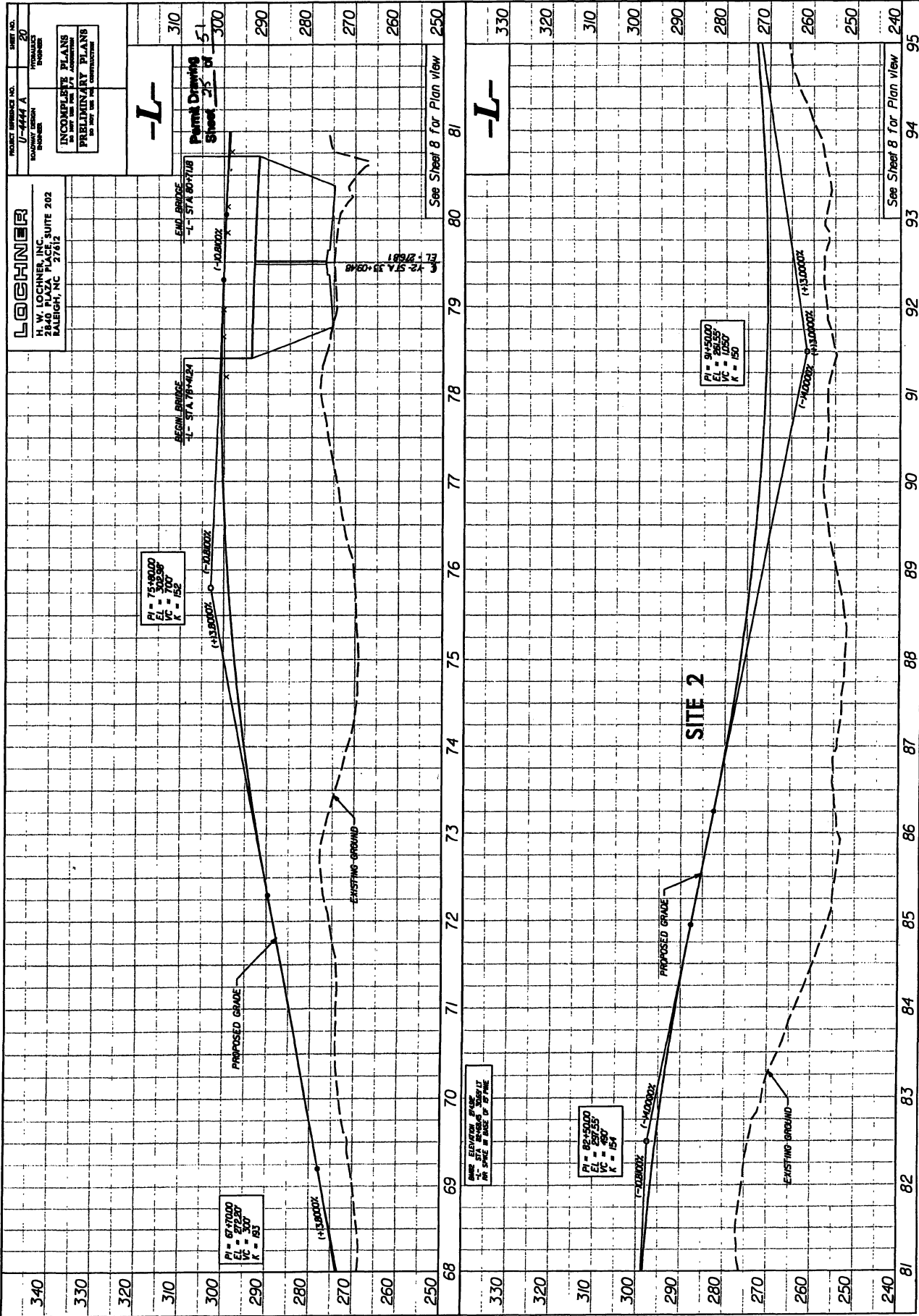


F DENOTES FILL IN
WETLAND



PROJECT: 36492.1.2 (U-4444AB) (WETLAND HER)
SITE 5





LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612

PROJECT NUMBER NO. U-4444 A
 SHEET NO. 20
 HYDRAULIC DESIGN
 STRUCTURE

INCOMPLETE PLANS
 IN VIEW FOR THE STATE ADMINISTRATOR
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

-L-

310
 300
 290
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 2
 1

See Sheet 8 for Plan View

PI = 75+80.00
 EL = 300.50
 VC = 300'
 K = 152

PI = 67+00.00
 EL = 307.50
 VC = 300'
 K = 83

THE ELEVATION OF THE
 STRUCTURE SHALL BE
 AS SHOWN UNLESS
 OTHERWISE NOTED

PI = 68+50.00
 EL = 297.50
 VC = 400'
 K = 154

PI = 94+50.00
 EL = 285.50
 VC = 400'
 K = 150

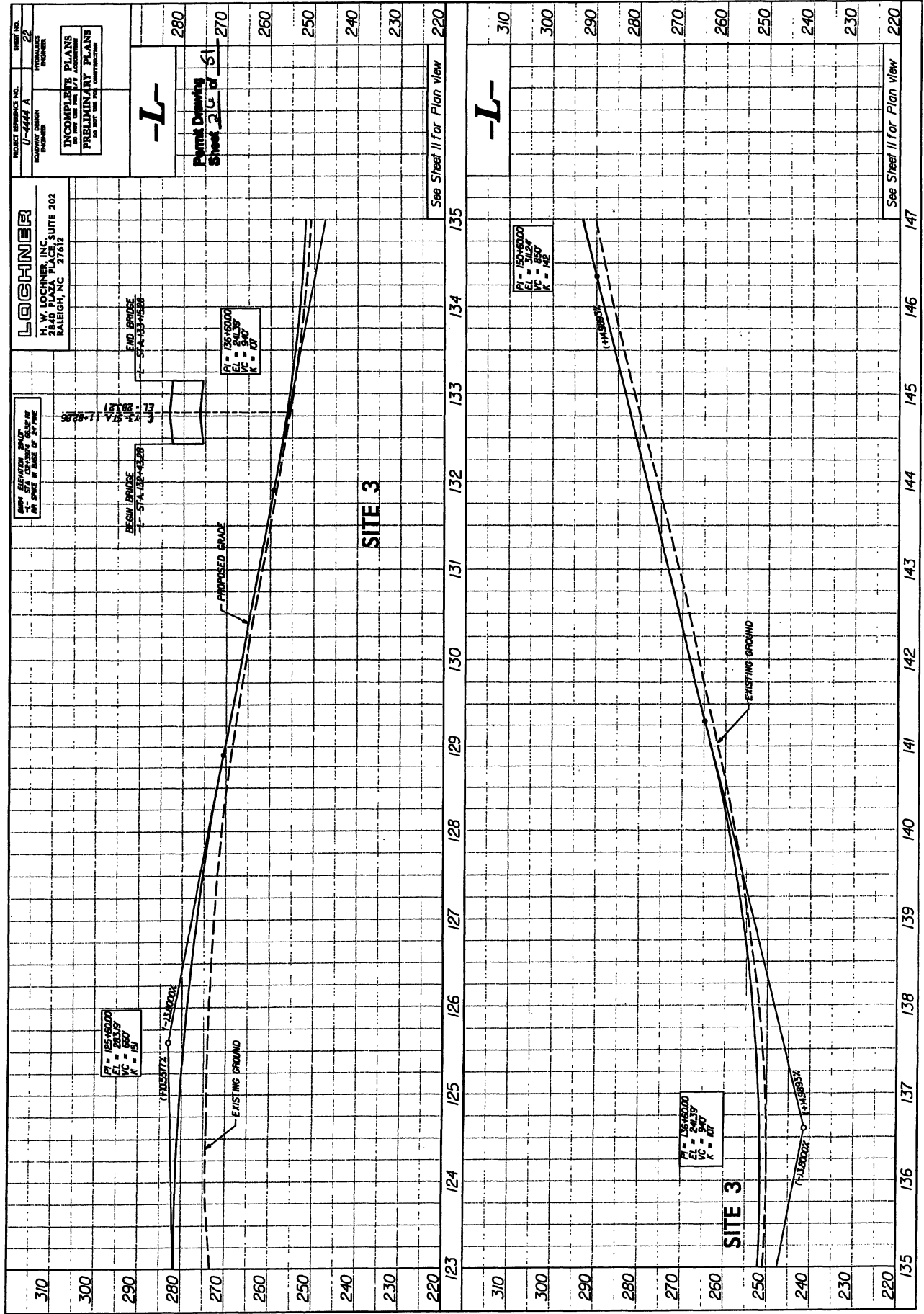
SITE 2

-L-

330
 320
 310
 300
 290
 280
 270
 260
 250
 240

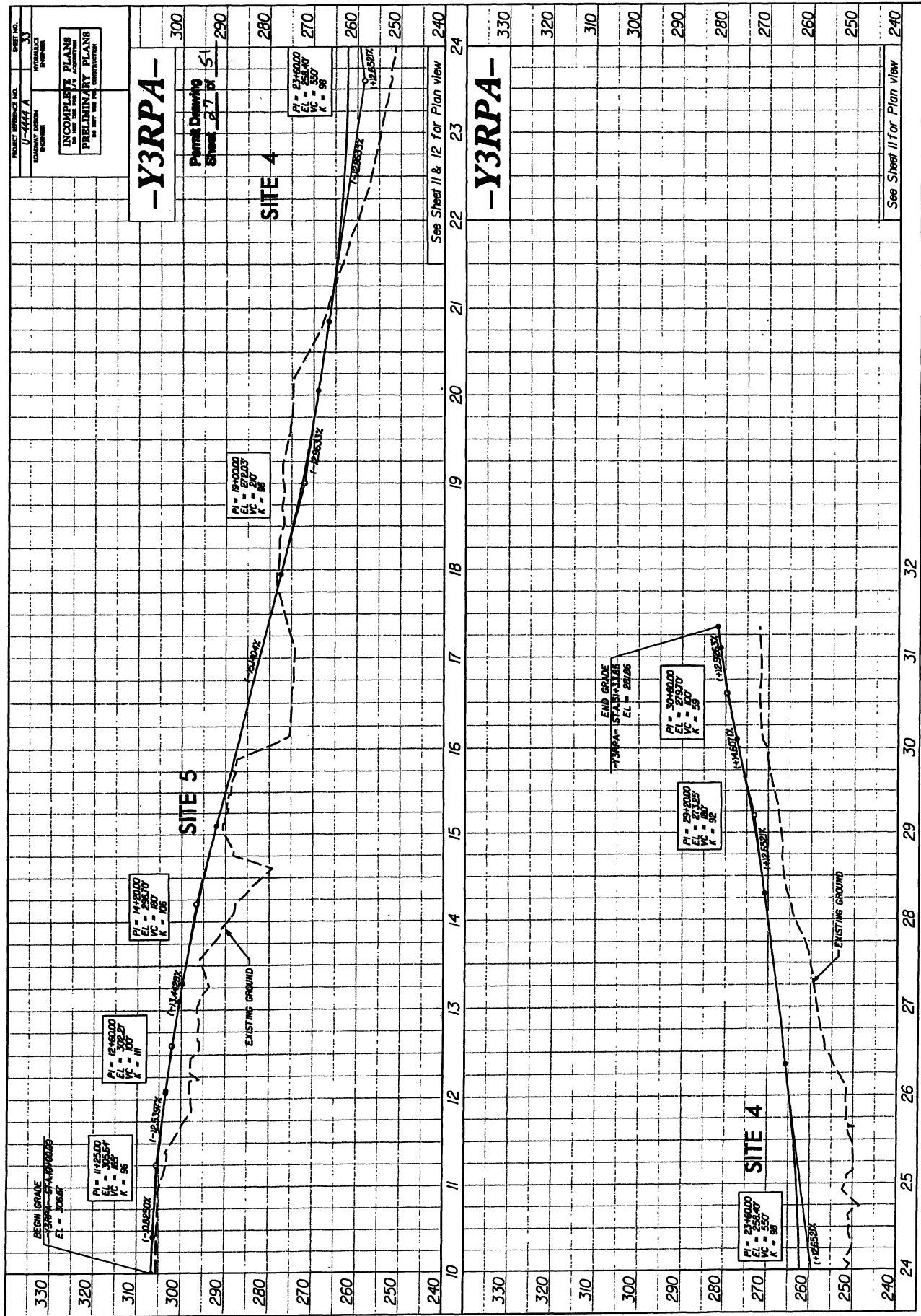
81
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 93
 94
 95

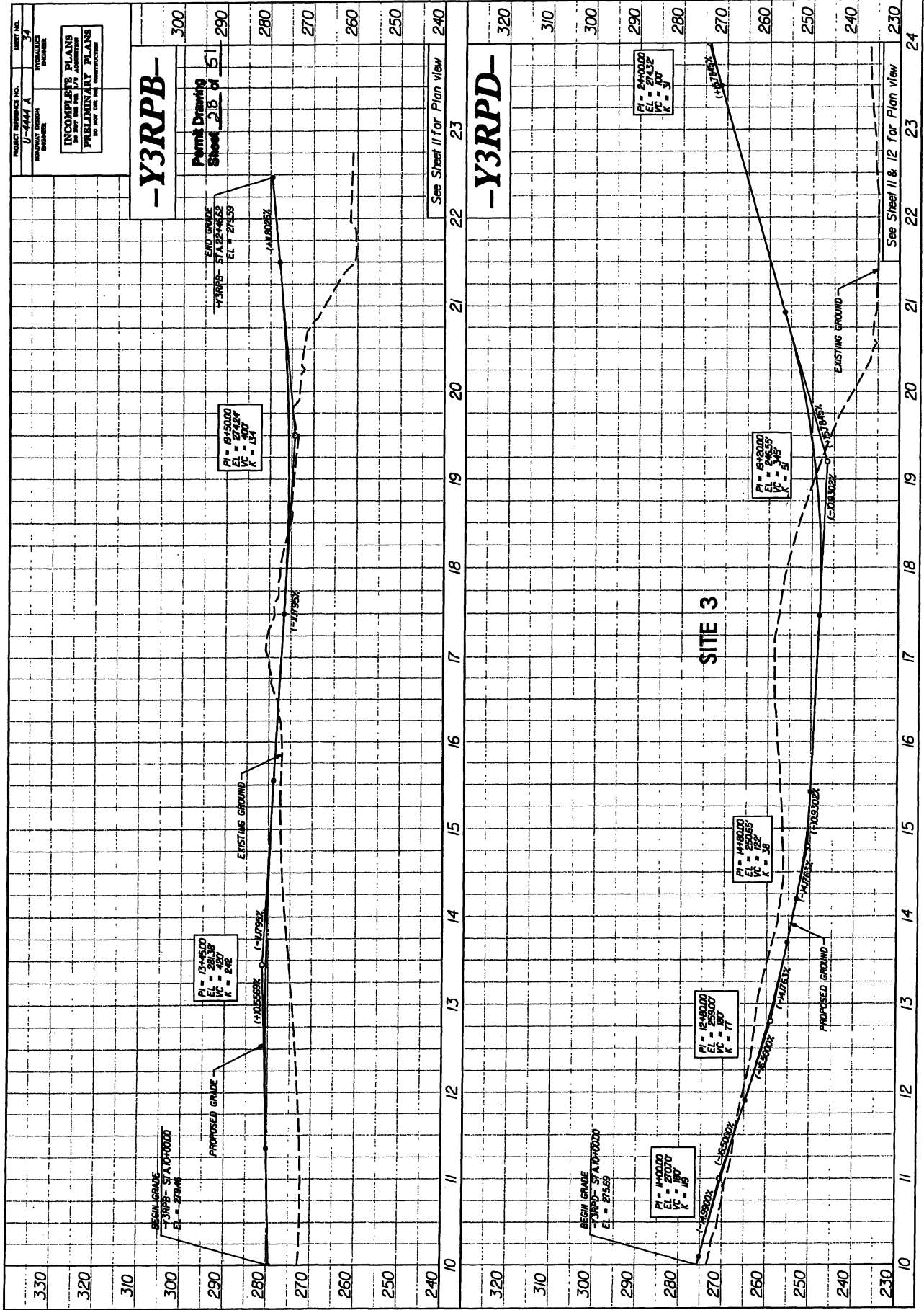
See Sheet 8 for Plan View

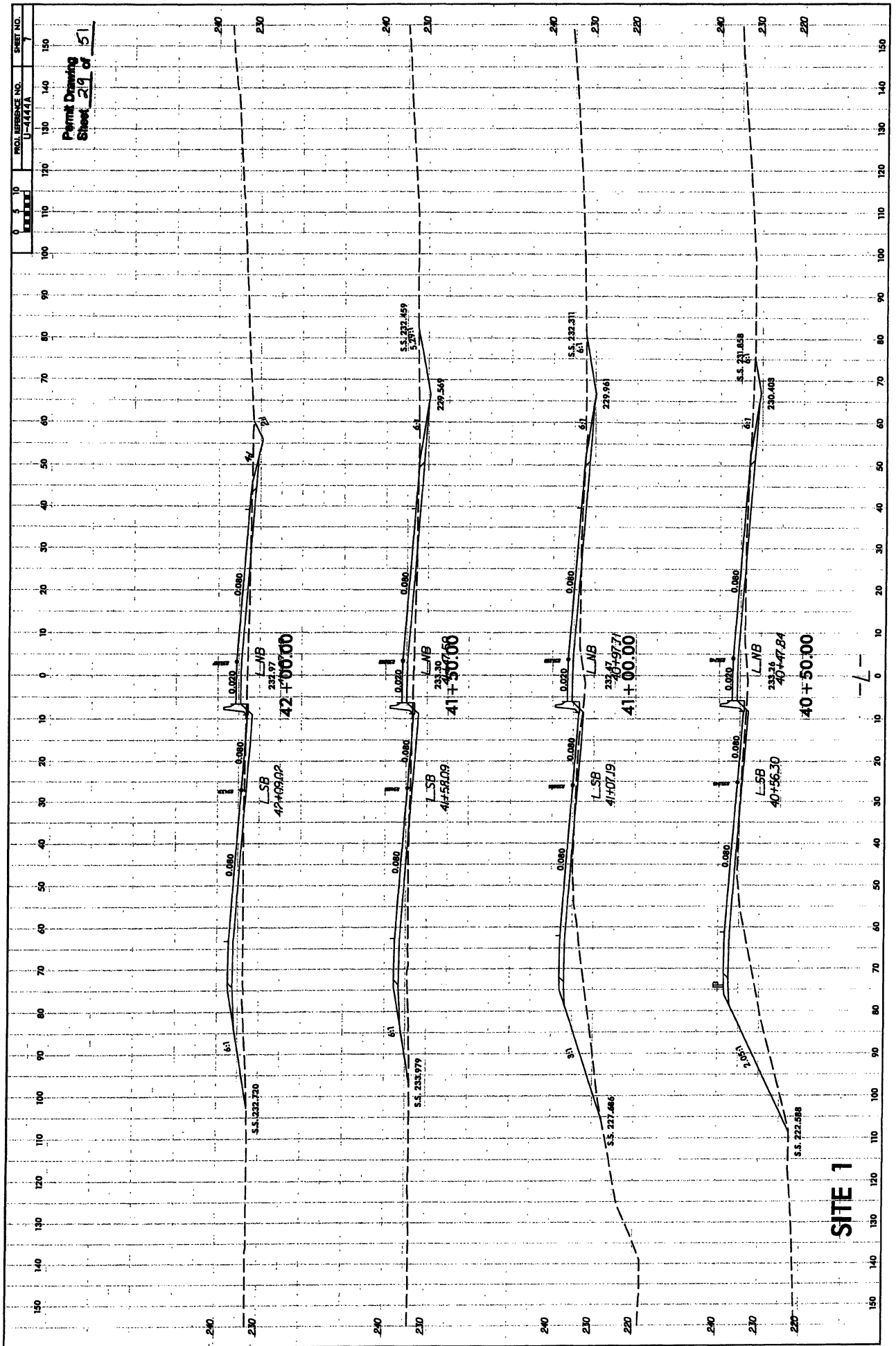


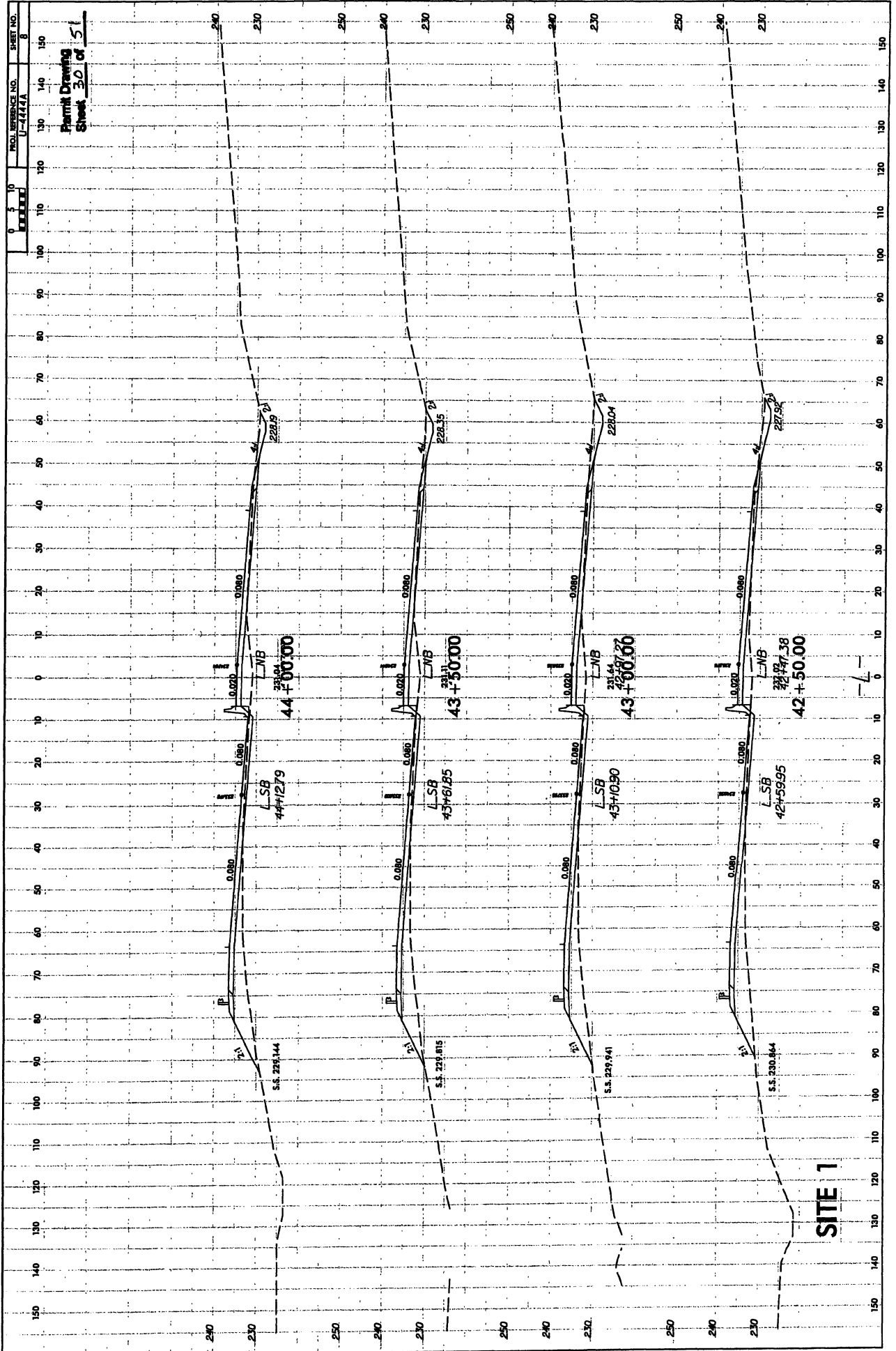
See Sheet II for Plan view

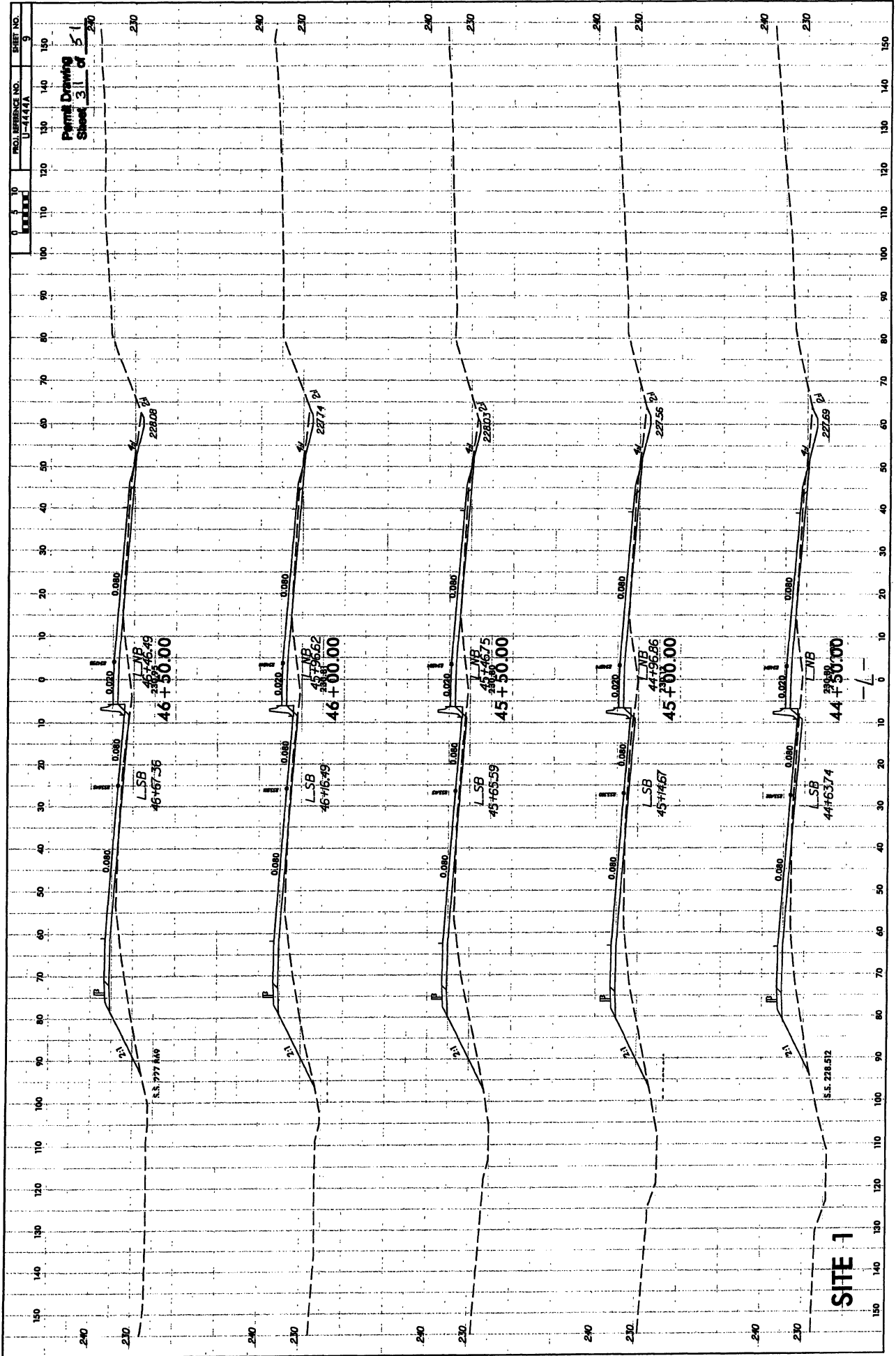
See Sheet II for Plan view

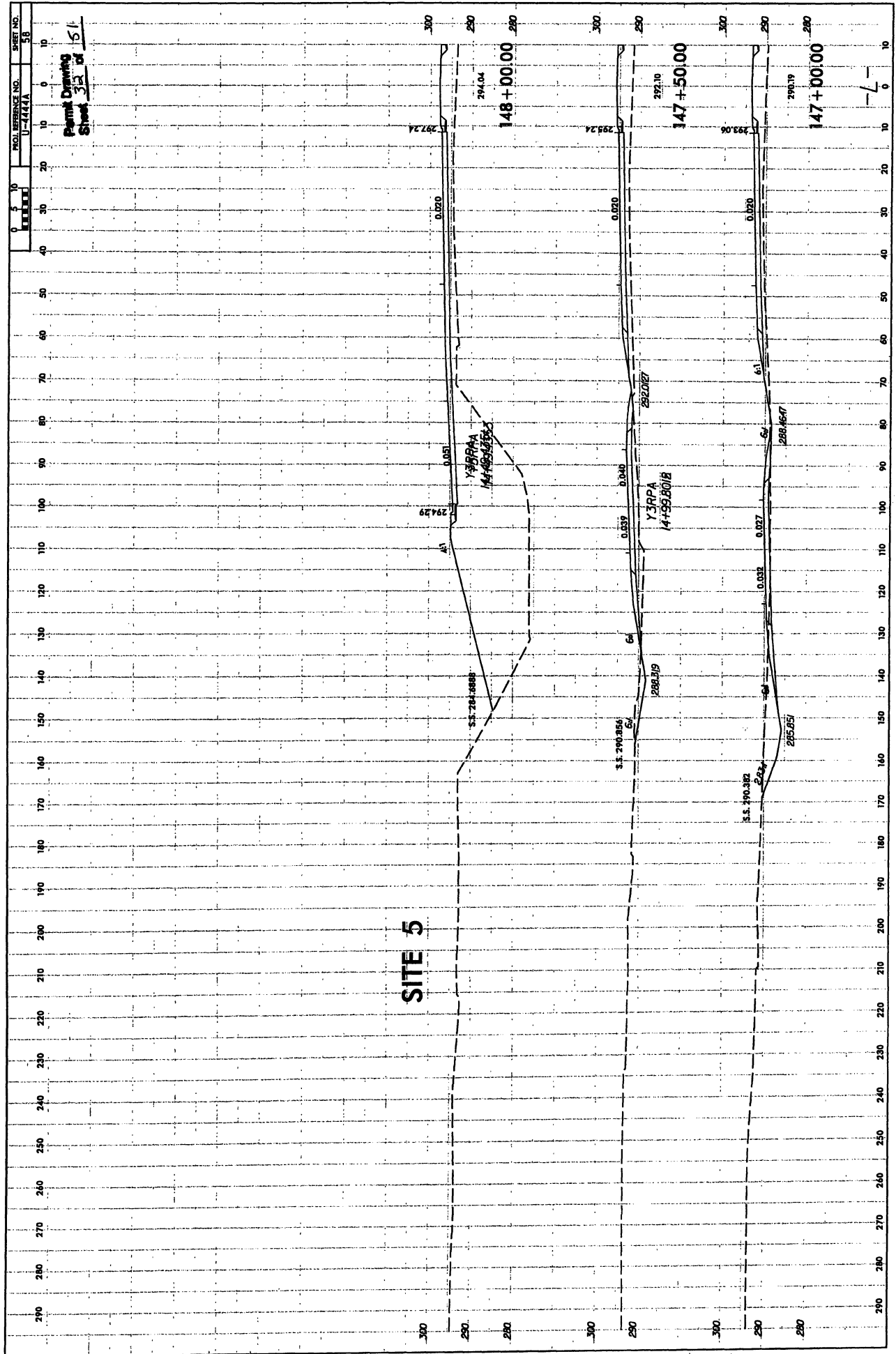








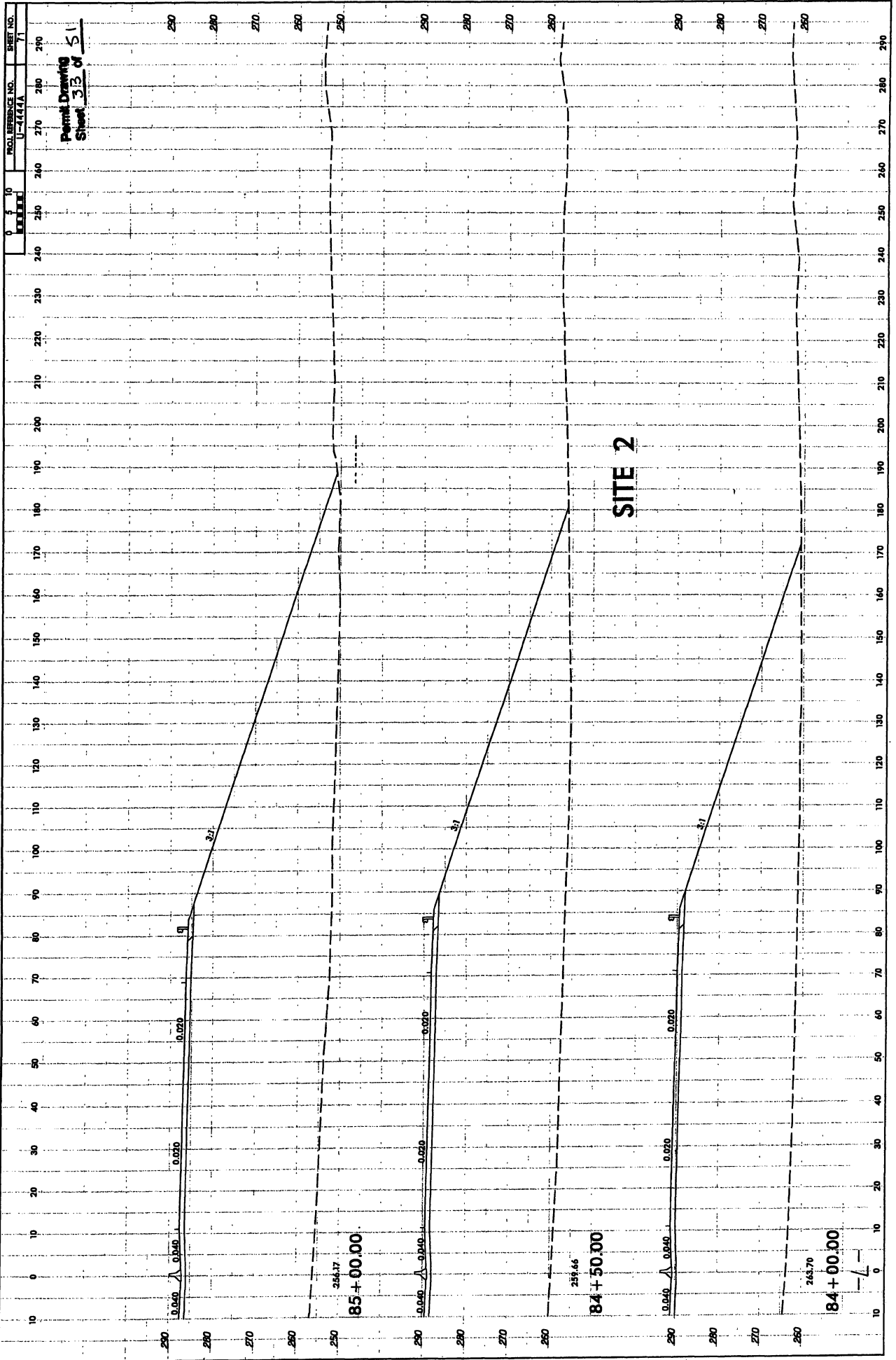




PROJ REFERENCE NO. 11-4447A
 SHEET NO. 58
 0 5 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290

Planck Drawing
 Sheet 32 of 51

SITE 5



PROJ. REFERENCE NO. U-1141A
SHEET NO. 7

Permit Drawing
Sheet 313 of 51

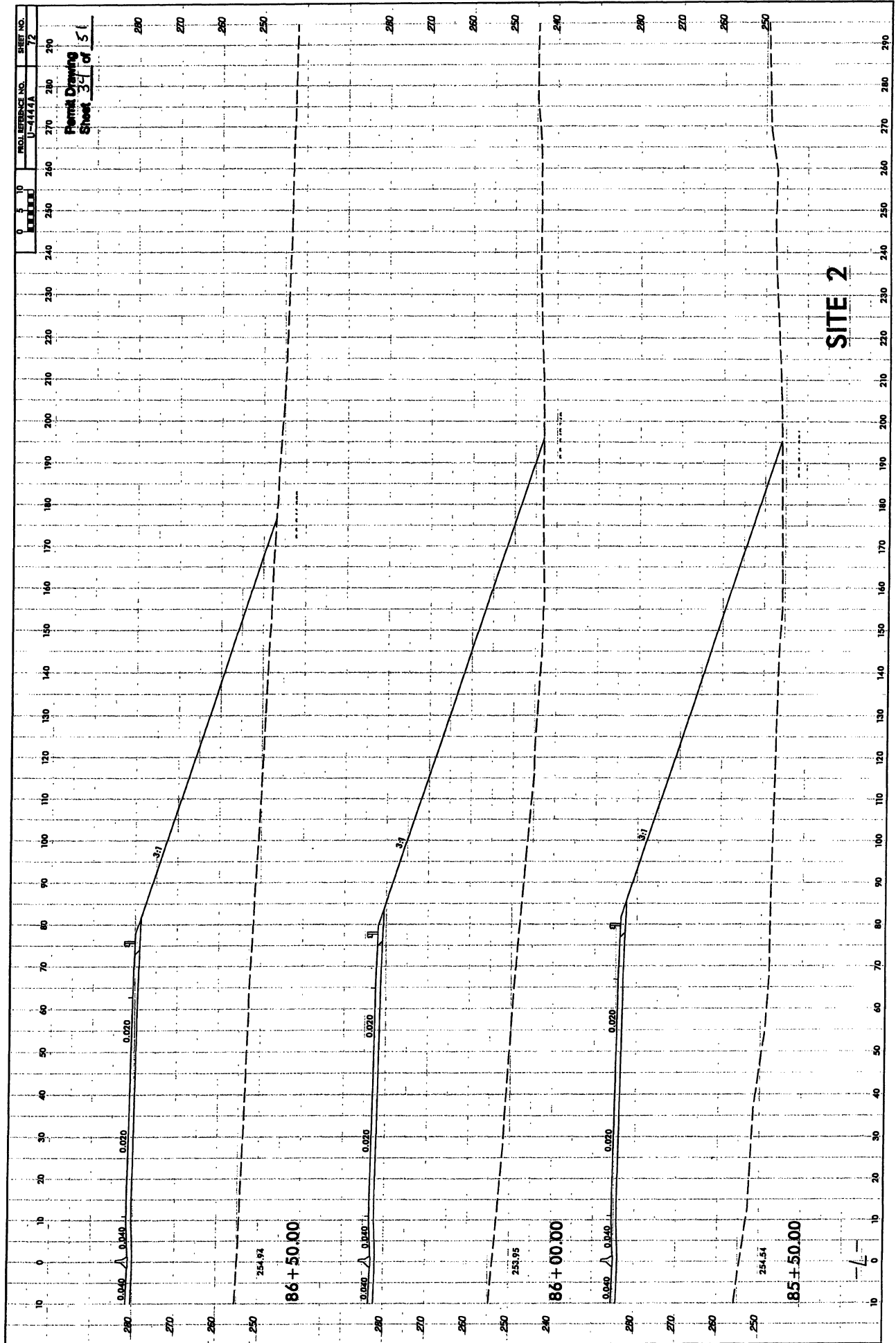
SITE 2

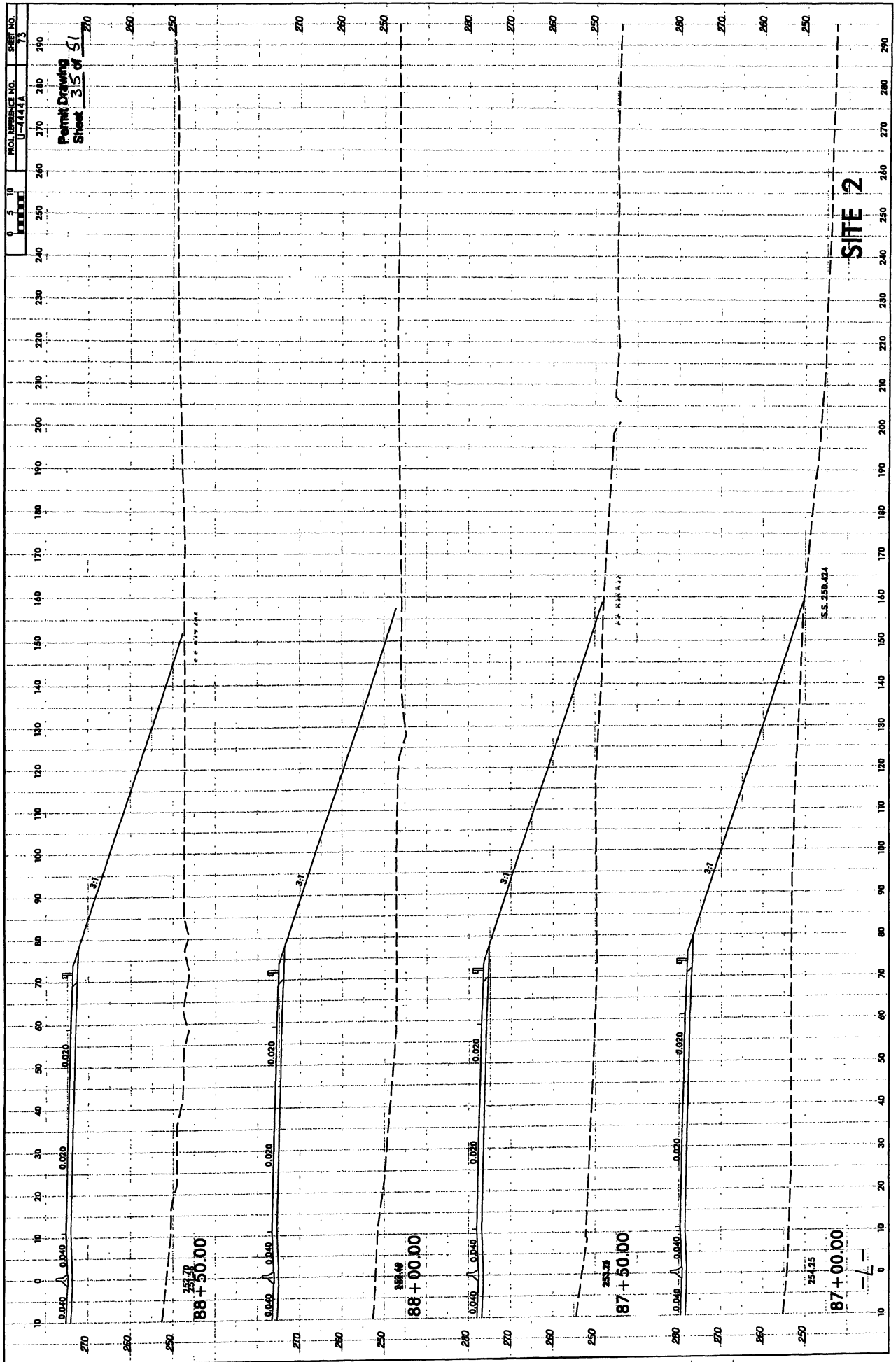
85+00.00
254.17

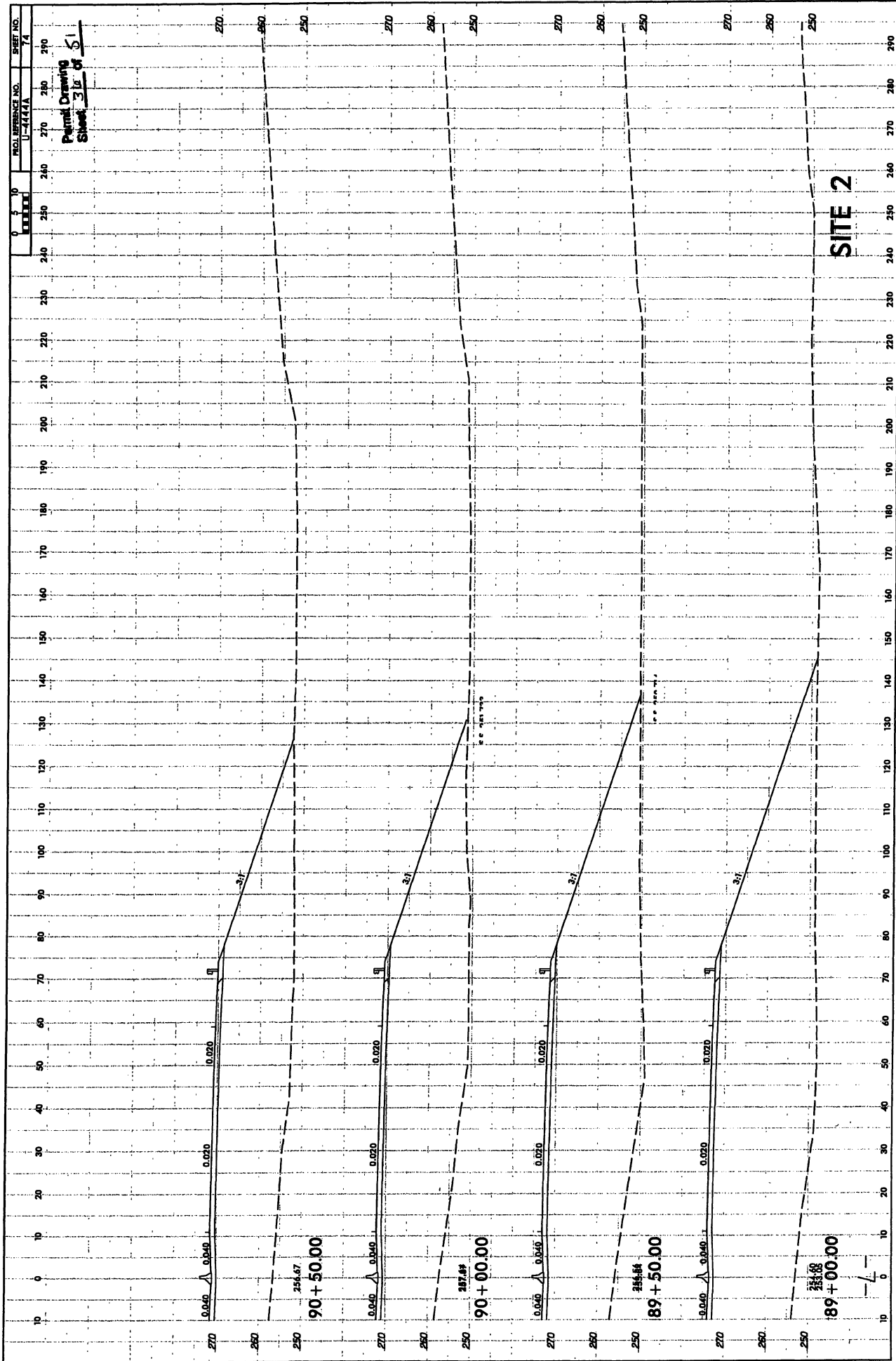
84+50.00
259.66

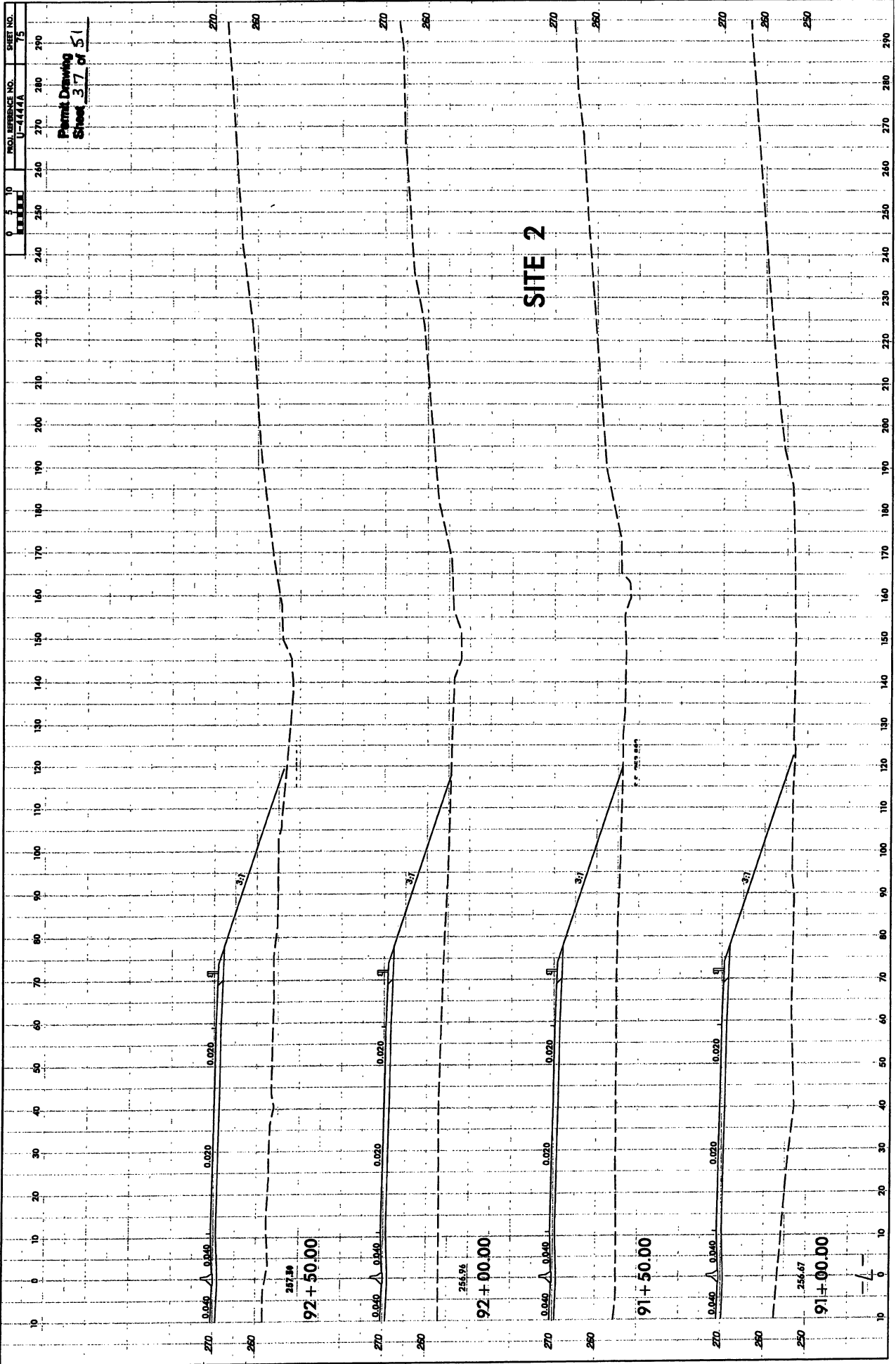
84+00.00
263.70

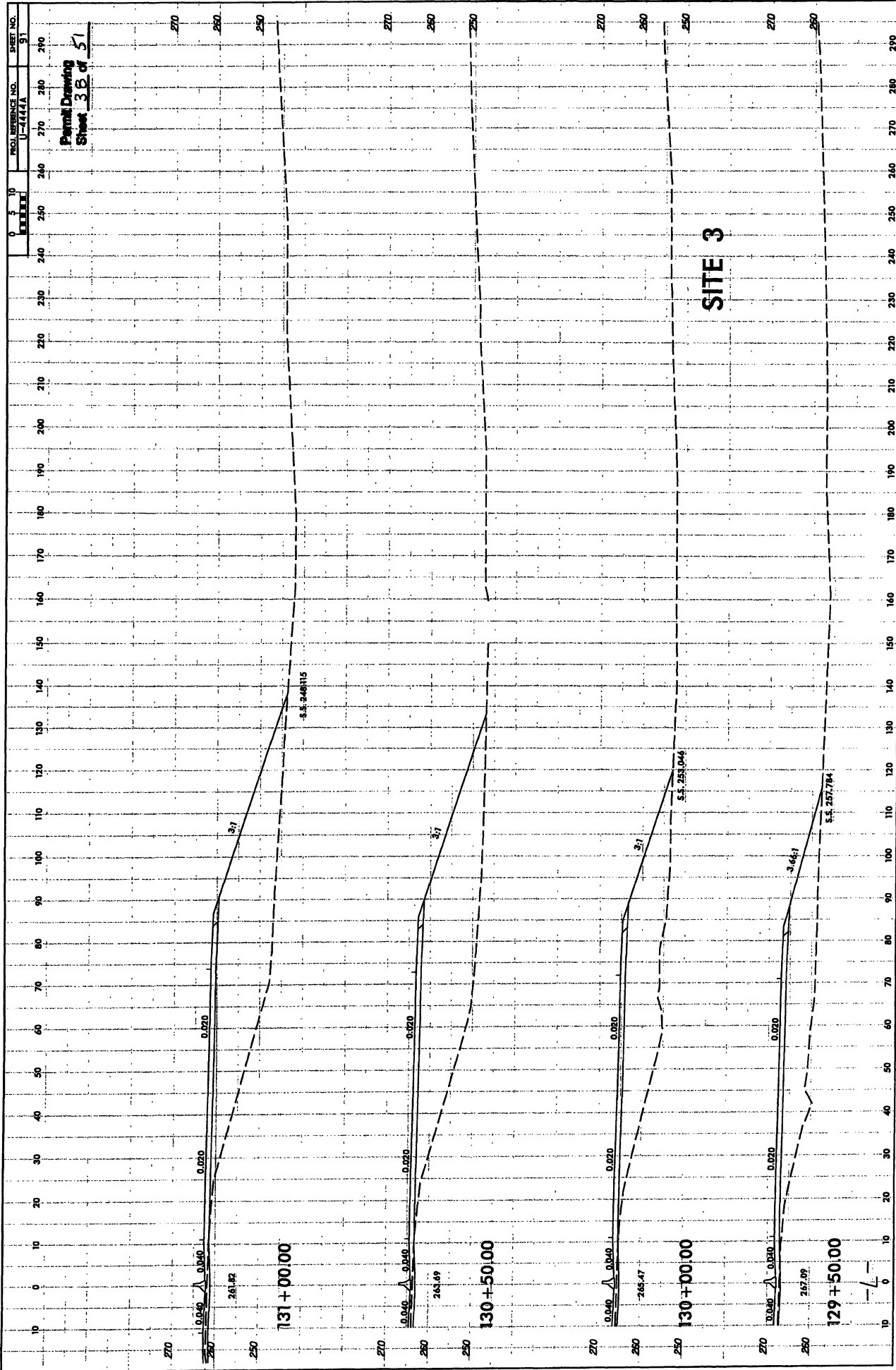


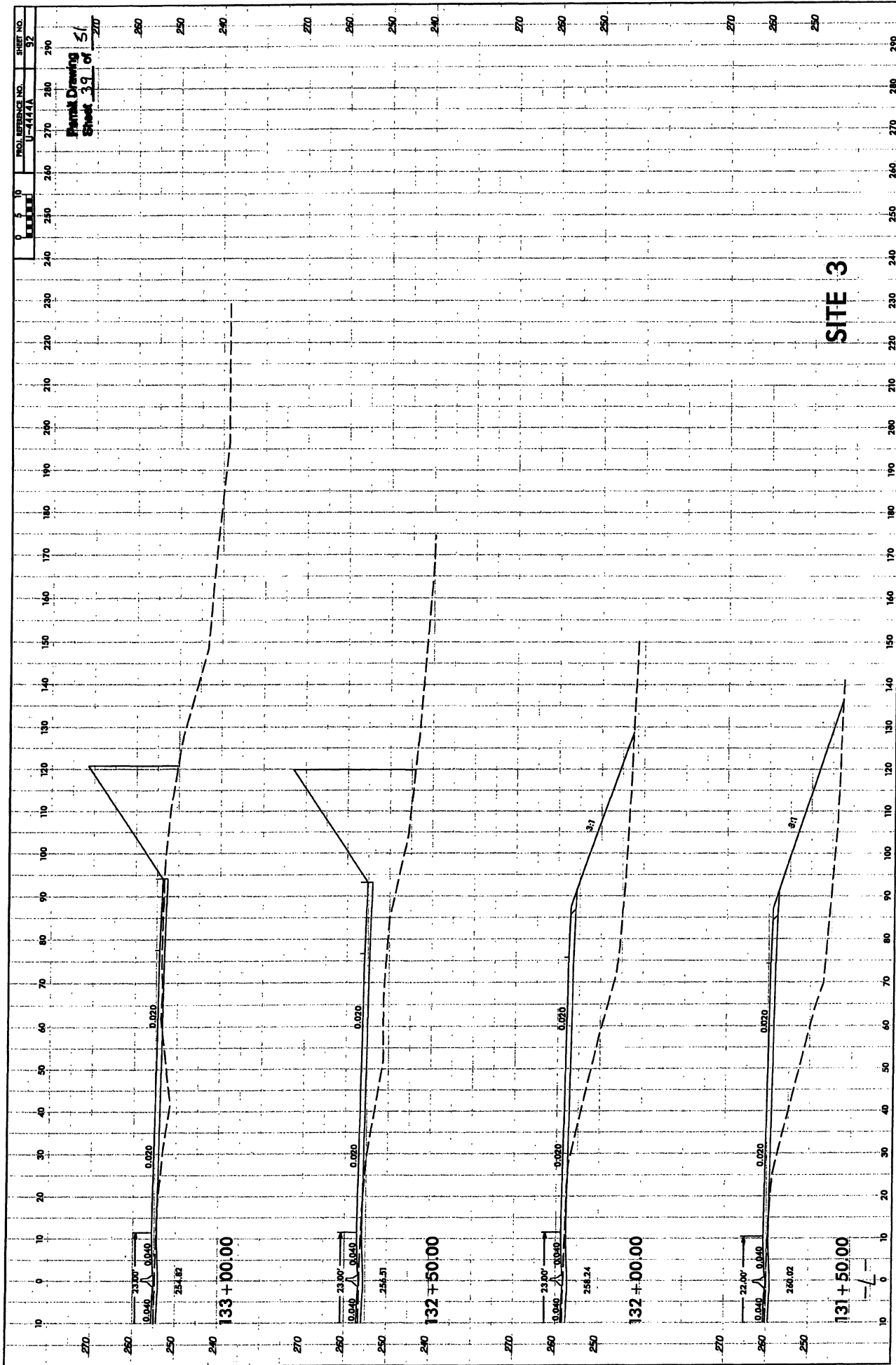


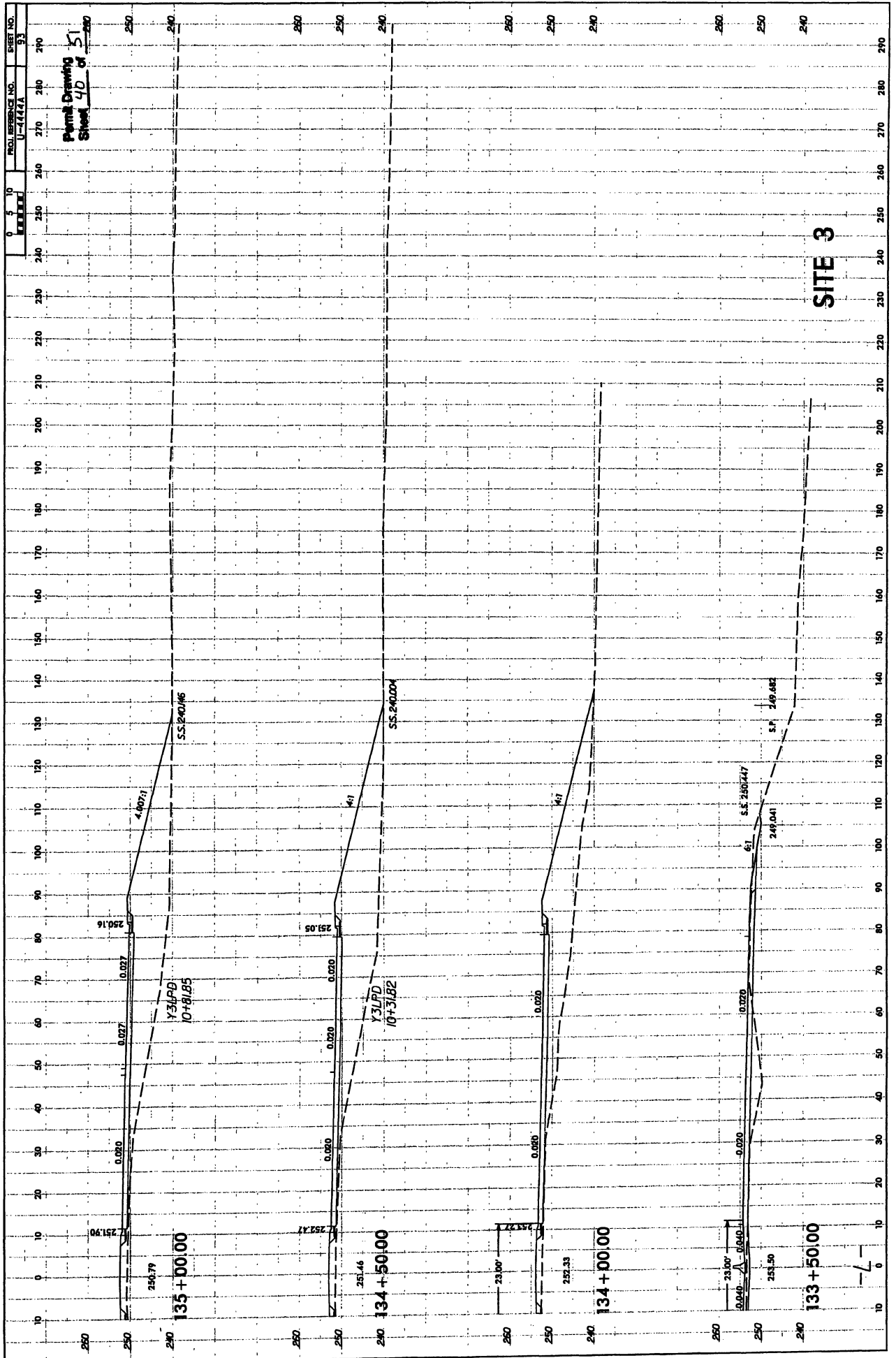


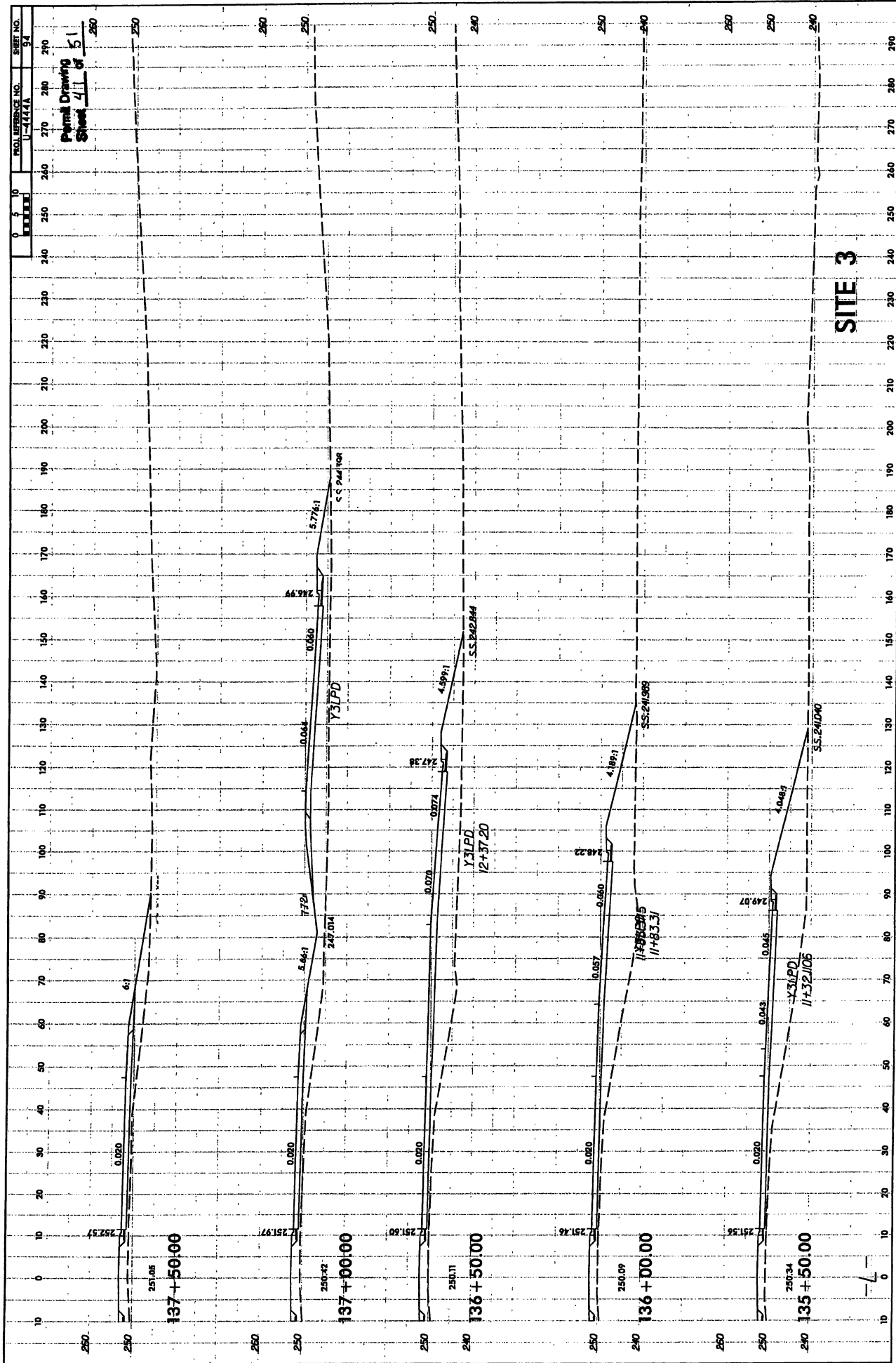


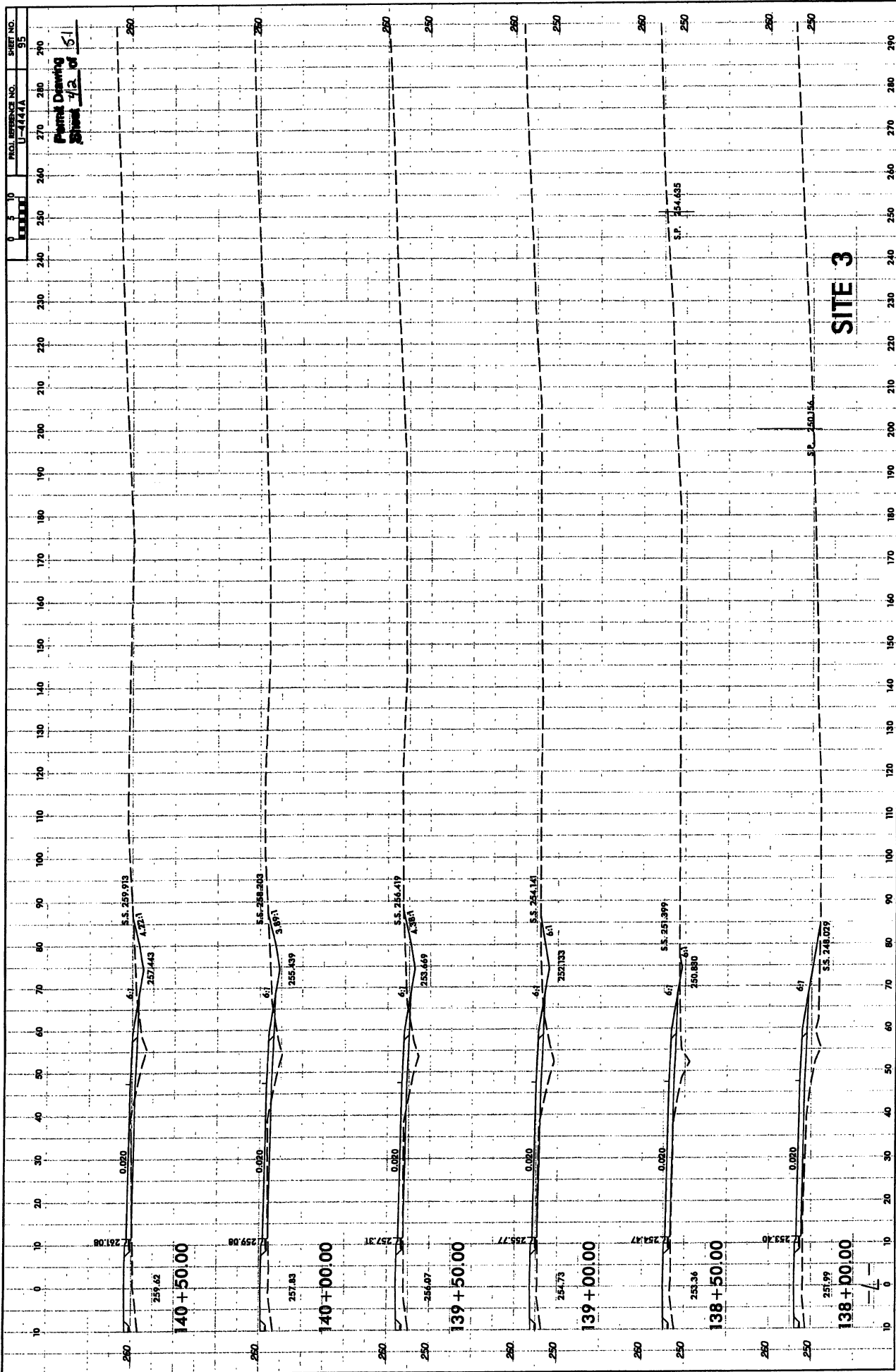


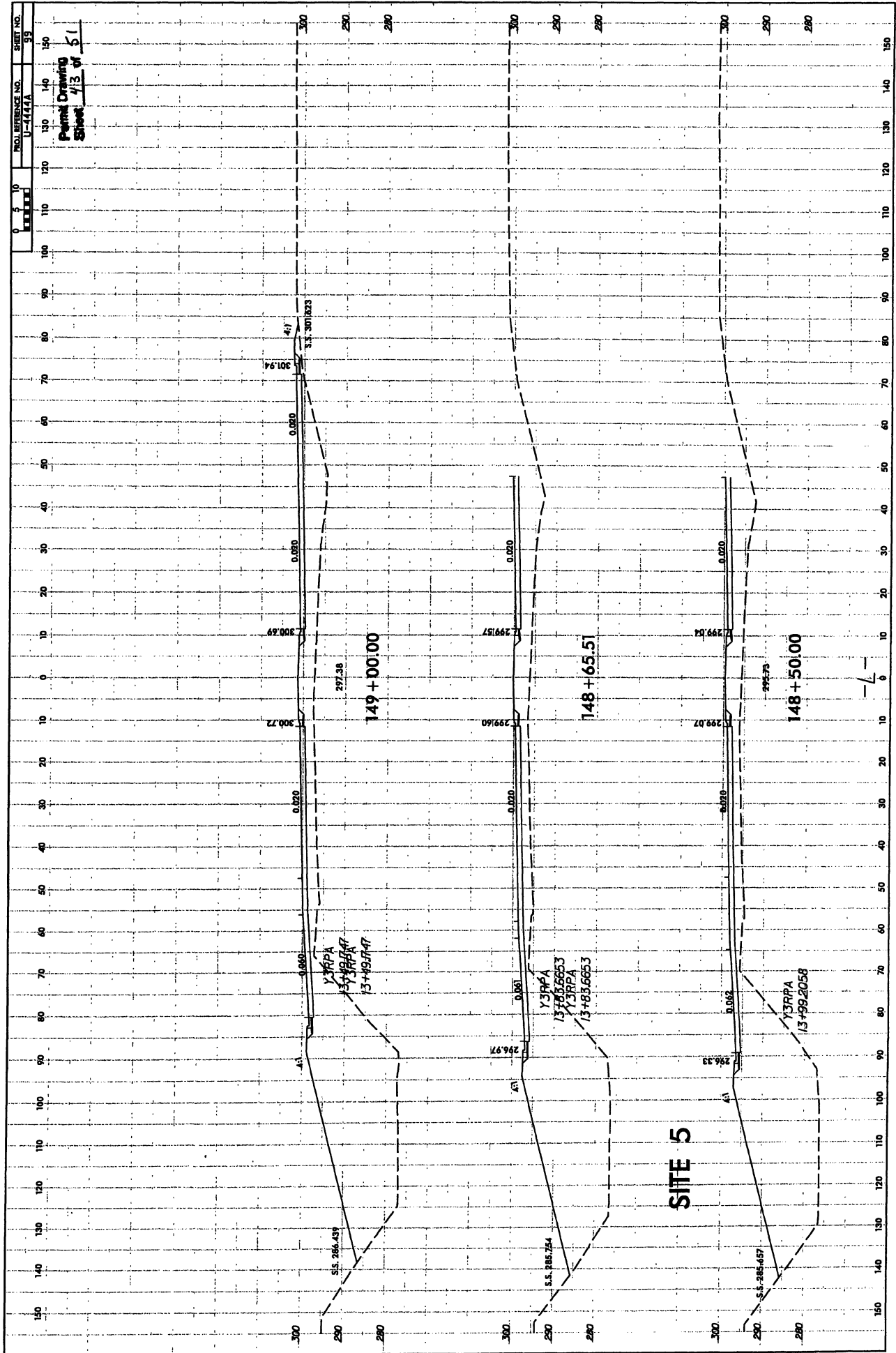


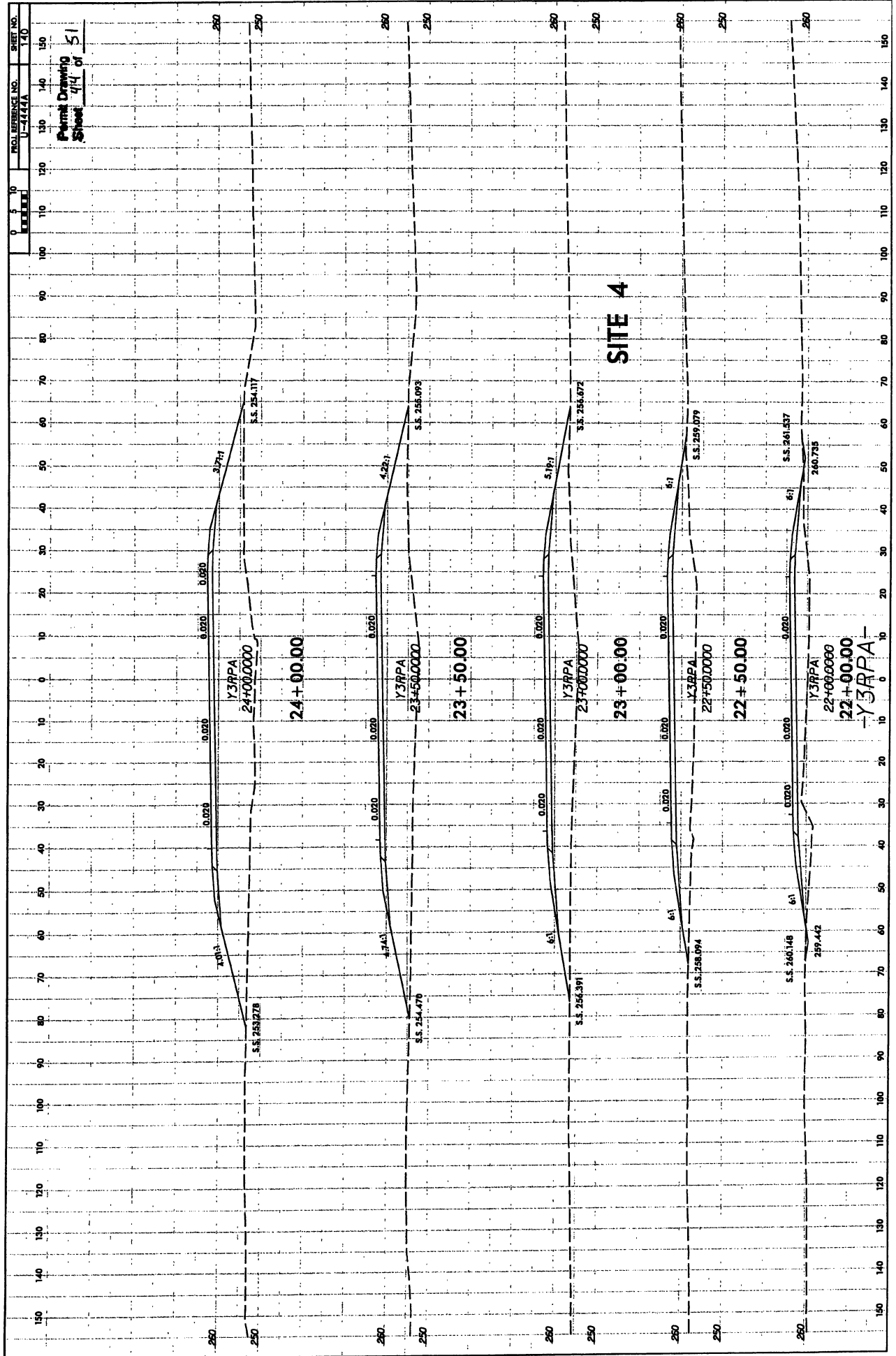


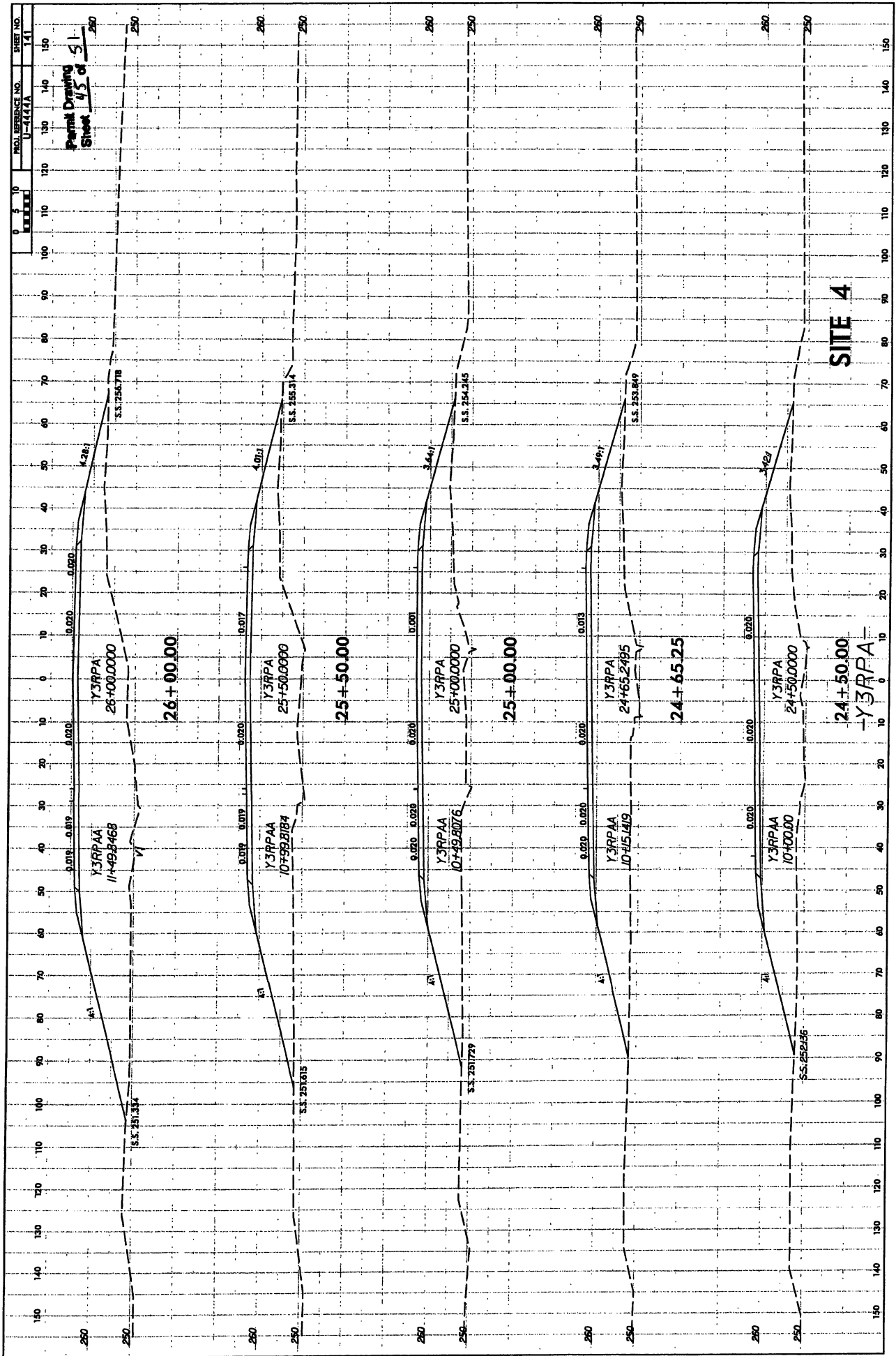


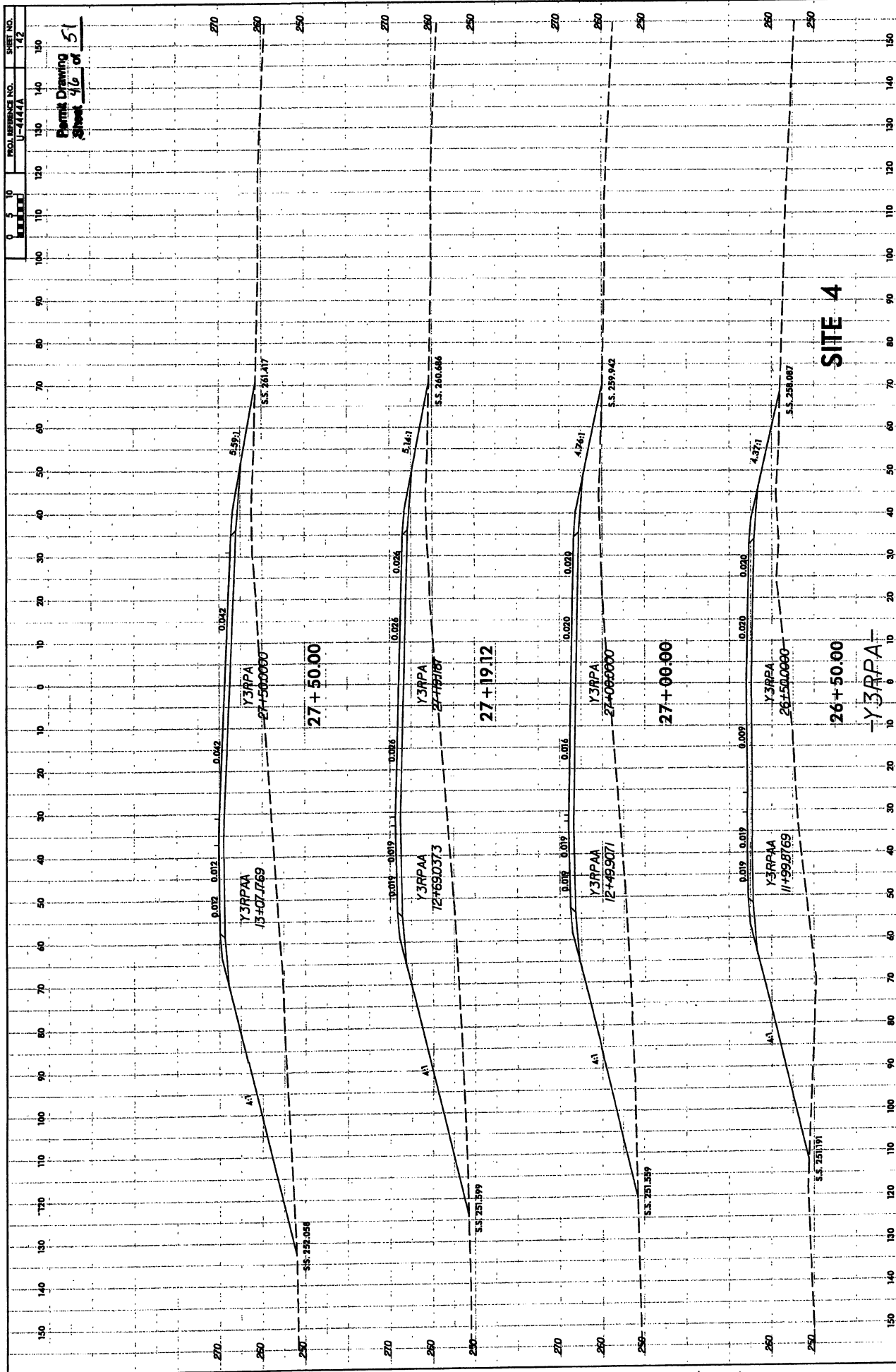


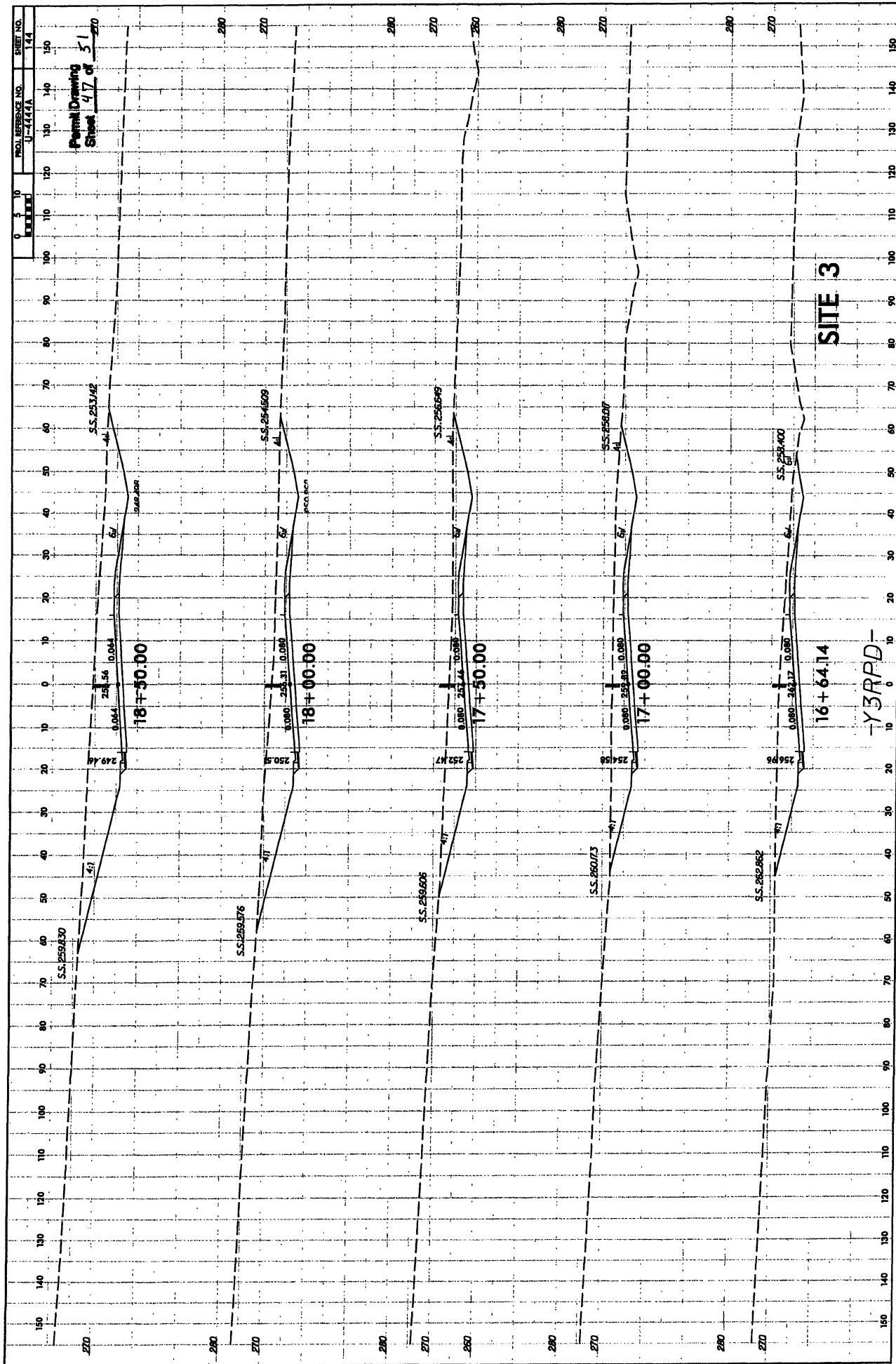


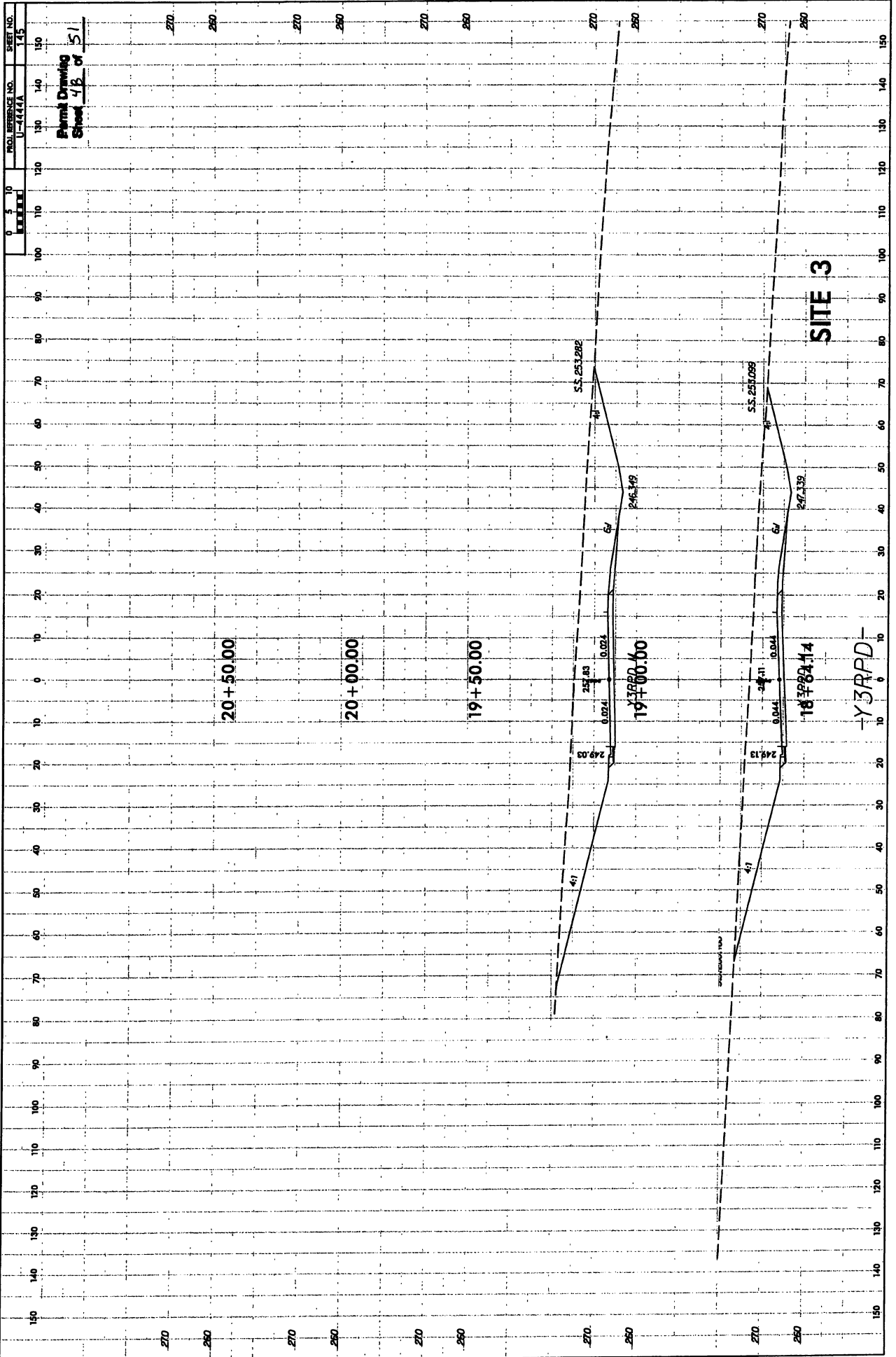






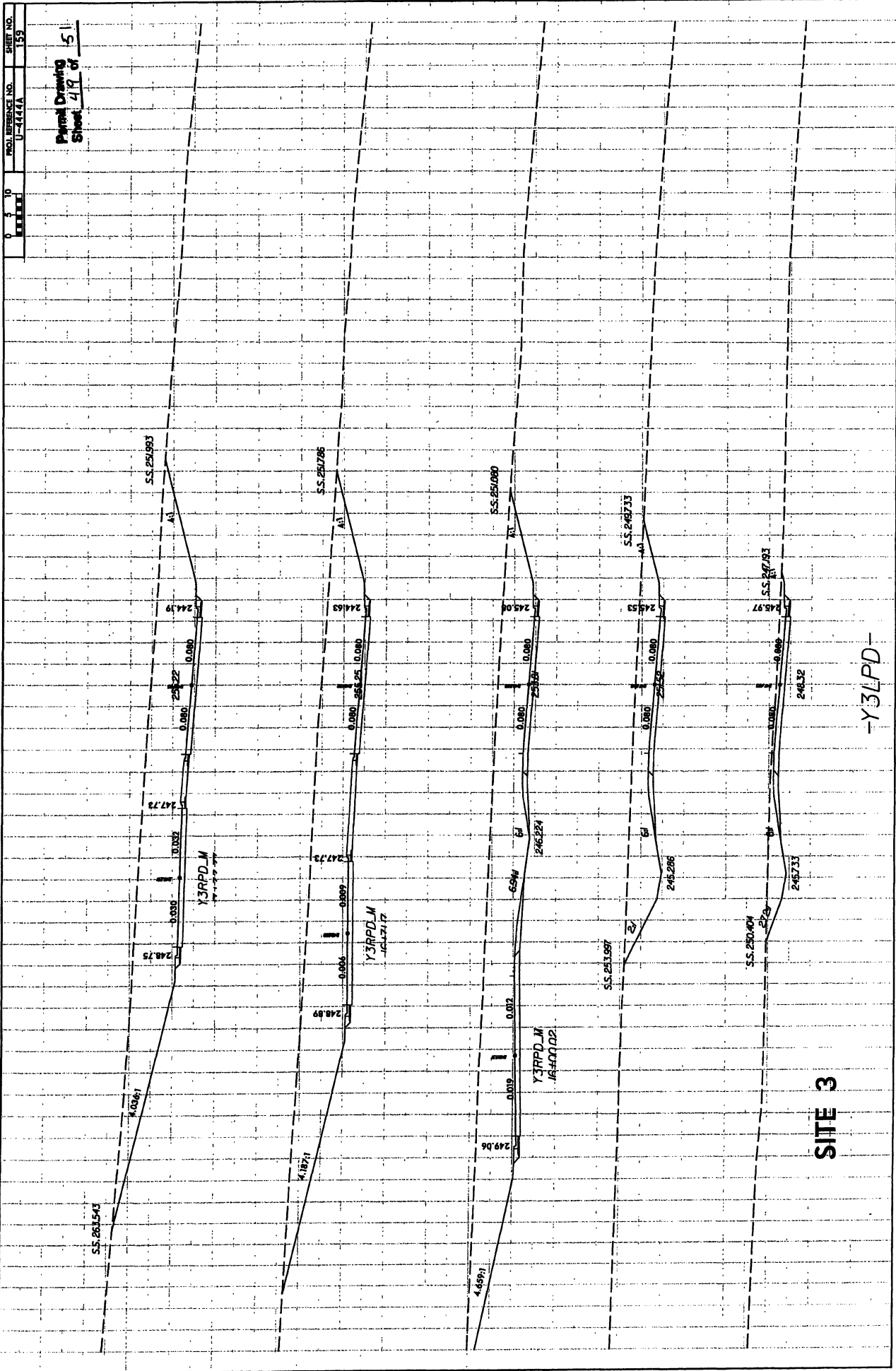






PROJ REFERENCE NO. U-4444A SHEET NO. 159

Permit Drawing
Sheet 49 of 51



SITE 3

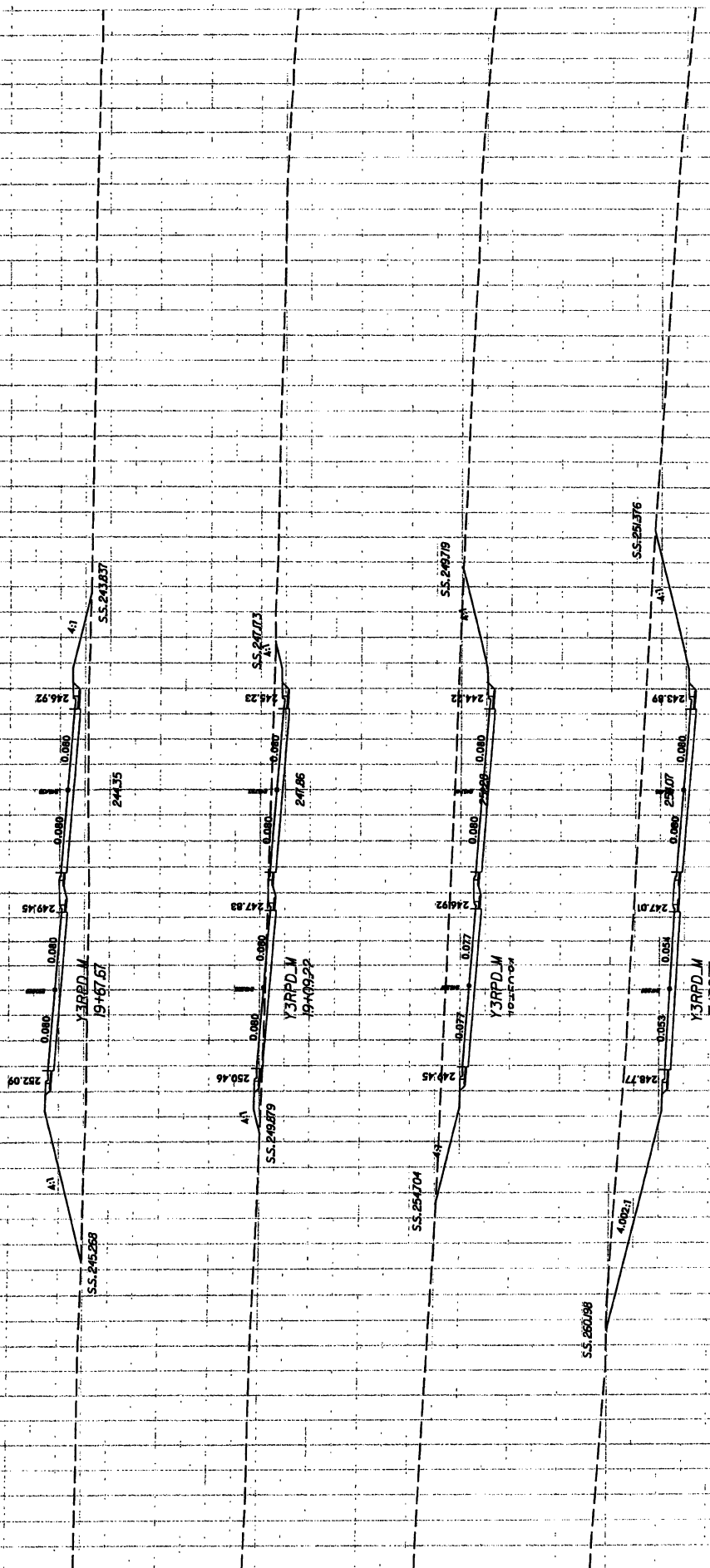
-Y3LPD-

0 5 10
15 20 25
30 35 40
45 50 55
60 65 70
75 80 85
90 95 100

PROJ. REFERENCE NO.
U-11141A

SHEET NO.
160

Permit Drawing
Sheet 50 of 51

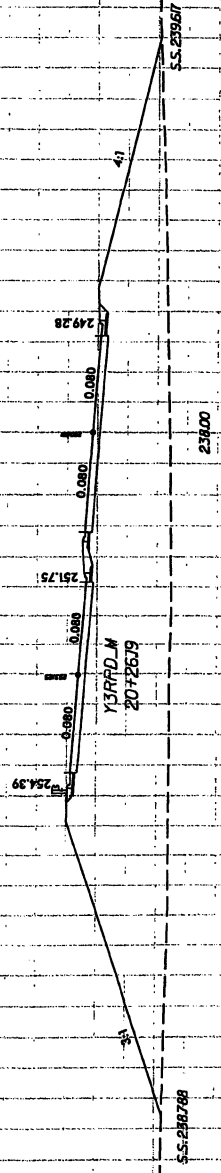


0 5 10
SCALE

PROJECT REFERENCE NO.
U-2411A

SHEET NO.
18

Partial Drawing
Sheet 51 of 51



SITE 3

-Y3LPD-