



# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District  
Jacob K. Javits Federal Building  
New York, N.Y. 10278-0090  
ATTN: Regulatory Branch

**In replying refer to:**  
Public Notice Number: 2004-01318-YN  
Issue Date: April 7, 2006  
Expiration Date: April 28, 2006

**To Whom It May Concern:**

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

**APPLICANT:** Rensselaer Central School District  
555 Broadway  
Rensselaer, NY 12144

and

City of Rensselaer  
505 Broadway  
Rensselaer, NY 12144

**ACTIVITY:** Discharge fill material into waters of the United States to construct a new public school with attendant features, and a new road to the school.

**WATERWAY:** Quackenderry Creek and Unnamed Tributaries (Hudson River Basin)

**LOCATION:** City of Rensselaer, Rensselaer County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

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ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration: SEQRA Approval through Lead Agency; SPDES authorization from the New York State Department of Environmental Conservation; Building Permit from the State Education Department; Non-Utility Highway Work Permit from the New York State Department of Transportation; and Sanitary Sewer and Water Service Approvals from both the State Department of Health and the City of Rensselaer.

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (518) 273-7420 and ask for Christine Delorier.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

*FOR*   
Richard L. Tomer  
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicants, Rensselaer Central School District and the City of Rensselaer, have requested Department of the Army authorization for the discharge of fill material into waters of the United States to facilitate the construction of a new public school with attendant features and the construction of a new road to the school. The project site is located off of Partition Street and Tenth Street in the City of Rensselaer, Rensselaer County, New York.

The work proposed by the Rensselaer Central School District would involve the discharge of fill material into 0.11 acre of emergent wetlands and 0.23 acre of shrub-scrub wetlands to facilitate the construction of a new pre-kindergarten through twelfth grade public school and attendant features. The size of the school would be approximately 270,000 square feet and would have classrooms, administrative offices, gymnasiums and an auditorium. The parking lots would have space for 322 vehicles. The campus would consist of 9.9 acres of athletic and recreational amenities, including football, baseball, softball and soccer fields, a track, and tennis courts. All of the proposed water, sewer, electric, gas and telecommunications utilities would be constructed within the proposed fill footprint. The proposed work would also result in the discharge of fill material into 0.52 acre of wetlands that were determined to be isolated and not subject to Department of the Army jurisdiction. A 27.14 acre portion of the 46.9 acre property owned by the Rensselaer Central School District at this location would be developed for the proposed school and campus.

As mitigation for the proposed impacts to wetlands, the Rensselaer Central School District proposes to establish 0.21 acre of forested wetlands and 0.26 acre of shrub-scrub wetlands in the western portion of the project site. To accomplish this, the applicant proposes to discharge fill material into an additional 0.01 acre of forested wetlands to facilitate the grading of the wetland establishment area. The applicant proposes to monitor the mitigation area for a period of three years.

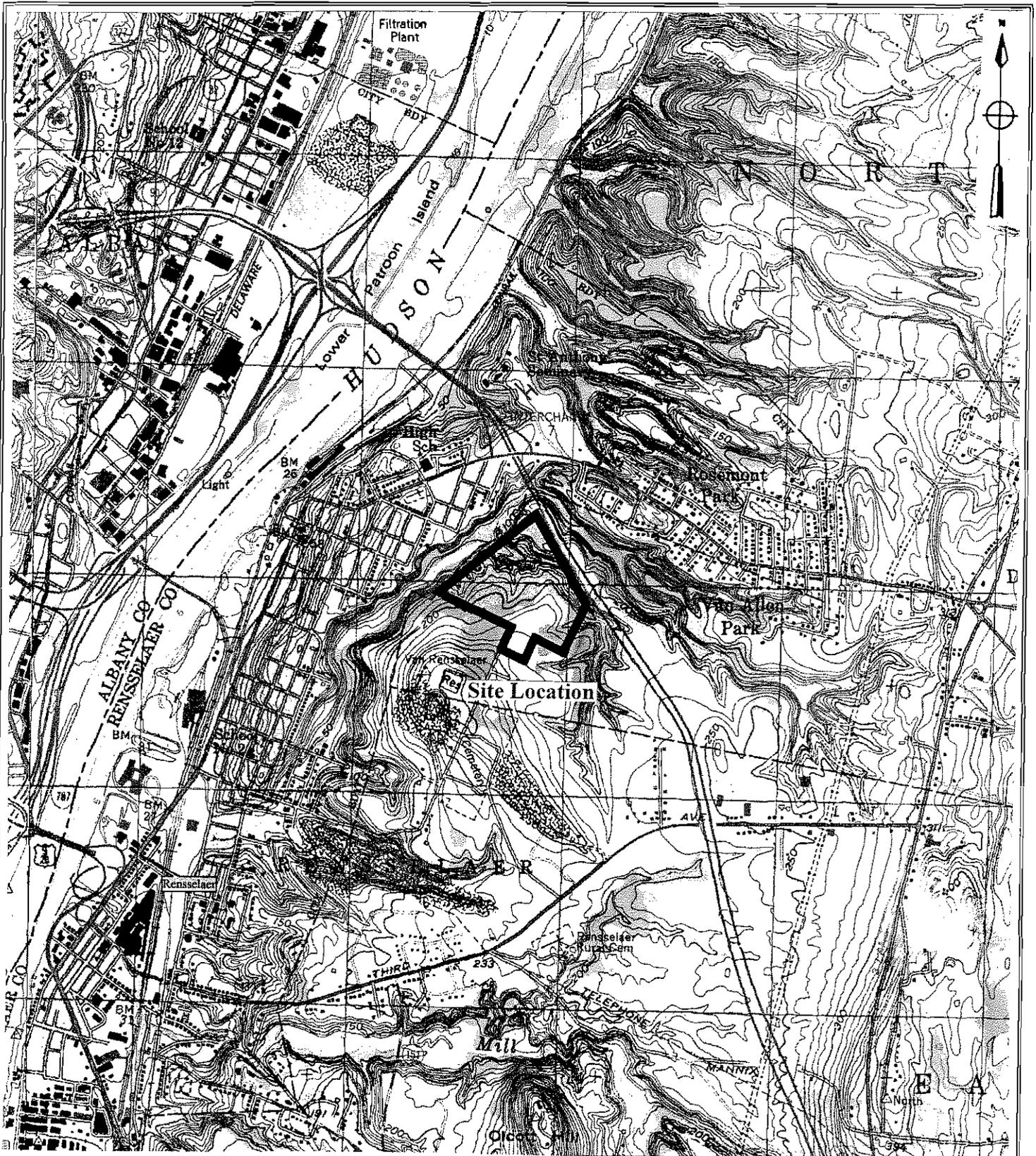
The work proposed by the City of Rensselaer would involve the discharge of fill material into 265 linear feet, or 0.35 acre, of the Quackenderry Creek and 826 linear feet, or 0.17 acre, of unnamed tributaries to the Quackenderry Creek to facilitate the construction of a new road from the terminus of Tenth Street to the proposed school. The road would be 1,950 feet long, have a travel width of 30 feet, and have sidewalks that range from 7 to 11 feet wide. Culverts and riprap scour protection would be installed at two of the four stream impact areas, including the Quackenderry Creek and one unnamed stream that extends off of the project site. Temporary cofferdams are proposed to facilitate the installation of the culverts and scour protection. A 6.61 acre portion of the 20.90 acre property owned by the City of Rensselaer at this location would be graded to construct the road.

As mitigation for the proposed stream impacts, the City of Rensselaer proposes to enhance 670 linear feet of the Quackenderry Creek by stabilizing 480 linear feet of eroding stream bank with riprap, plantings, and log crib walls, by establishing a plunge pool downstream of the proposed road culvert and fill area, and by improving the riffle and pool habitat in the channel. In addition, the applicant proposes to establish a 70 foot long vegetated swale that would act as an overflow channel on one of the on-site tributaries. Last, the applicant proposes to establish from

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uplands, a new 310 foot long stream channel that would discharge directly into the Quackenderry Creek. The goals of the stream mitigation are to help alleviate the downstream flooding that already occurs, to improve water quality, and to enhance habitat for fish and invertebrates. The City of Rensselaer proposes to monitor the mitigation areas for a period of three years.

The stated purpose of this project is to replace the existing public schools in the district with a public school that provides improved educational opportunities for current and future expected class sizes.



Base Map: USGS Troy North Quadrangle, Rensselaer County, New York

Scale: 1" = 2000'

North Country Ecological Services  
 173 Willie Road  
 Gloversville, N.Y. 12078

### FIGURE 1- Site Location Map

Application No. 2004-01318-YN by Rensselaer Central School District  
 and City of Rensselaer

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## SCHOOL SITE WETLAND IMPACT TABLE

<u>JURISDICTIONAL WETLANDS</u>	<u>IMPACTED AREA W/IN PROJECT LIMITS</u>
AREA 1 = 0.01 ± AC	0.00 ± AC
AREA 2 = 0.07 ± AC	0.06 ± AC
AREA 3 = 0.01 ± AC	0.01 ± AC
AREA 4 = 0.16 ± AC	0.00 ± AC
AREA 5 = 1.14 ± AC	0.01 ± AC
AREA 8 = 0.23 ± AC	0.23 ± AC
AREA 10 = 0.03 ± AC	0.00 ± AC
AREA 14 = 0.04 ± AC	0.04 ± AC
<b>TOTAL=1.69 ± AC</b>	<b>TOTAL=0.35 ± AC</b>
<hr/>	
<u>ISOLATED WETLANDS</u>	<u>IMPACTED AREA W/IN PROJECT LIMITS</u>
AREA 6 = 0.05 ± AC	0.04 ± AC
AREA 7 = 0.23 ± AC	0.23 ± AC
AREA 9 = 0.25 ± AC	0.25 ± AC
<b>TOTAL=0.53 ± AC</b>	<b>TOTAL=0.52 ± AC</b>

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 CHECKED: NEG  
 SCALE: AS NOTED  
 PROJ. #: 09898.00

SCHOOL SITE - WETLAND IMPACT TABLE  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

**ROAD PROJECT WETLAND IMPACT TABLE**

<u>WETLAND</u>	<u>TOTAL AREA</u>	<u>TOTAL AREA IMPACTED</u>	<u>STREAM LENGTH IMPACTED</u>
AREA 11	0.52 AC	0.15 AC	375 LF (TRIB TO QUACKENDARRY CREEK)
AREA 12	2.14 AC	0.35 AC	265 LF (QUACKENDARRY CREEK)
AREA 13	0.03 AC	0.01 AC	258 LF (INTERMITTENT STREAM)
AREA 15	0.02 AC	0.01 AC	193 LF (INTERMITTENT STREAM)
	2.71 AC	0.52 AC	1091 LF

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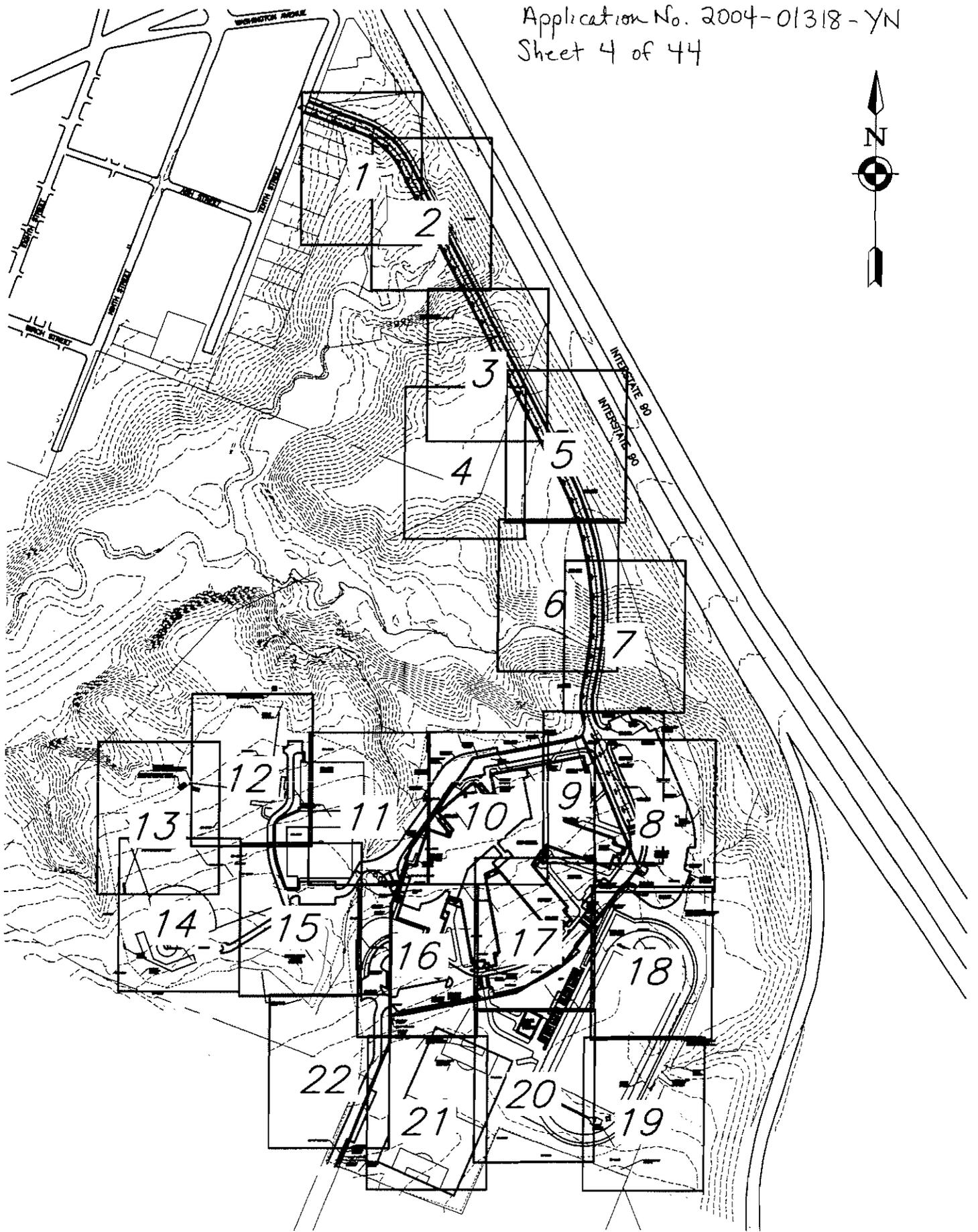
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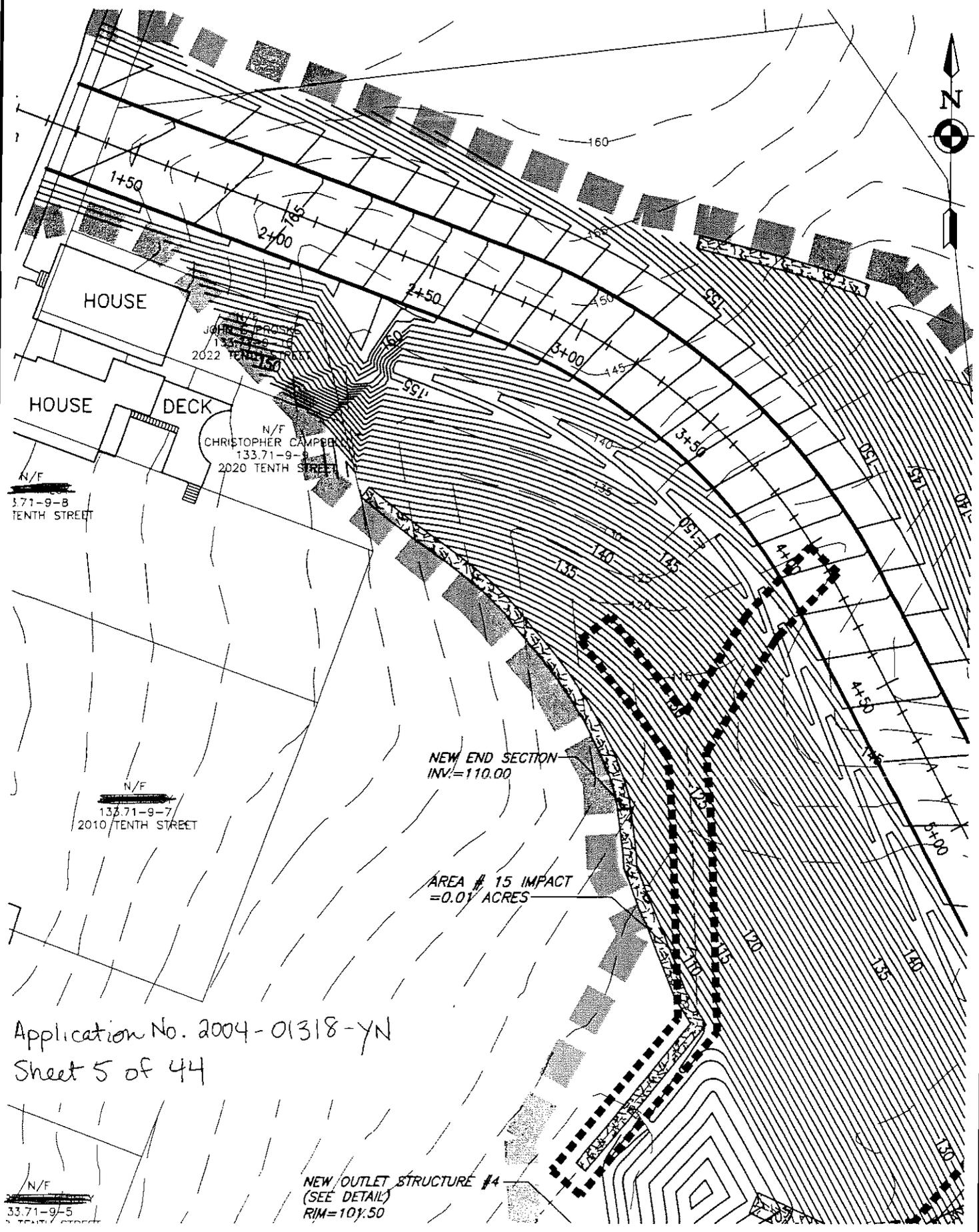
ROAD SITE - WETLAND IMPACT TABLE  
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SCHOOL AND ROAD SITE - KEY PLAN  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK



HOUSE  
HOUSE DECK  
N/F  
CHRISTOPHER CAMPBELL  
133.71-9-7  
2020 TENTH STREET  
N/F  
571-9-B  
TENTH STREET

N/F  
133.71-9-7  
2010 TENTH STREET

NEW END SECTION  
INV.=110.00

AREA # 15 IMPACT  
=0.01 ACRES

NEW OUTLET STRUCTURE #4  
(SEE DETAIL)  
RIM=101.50

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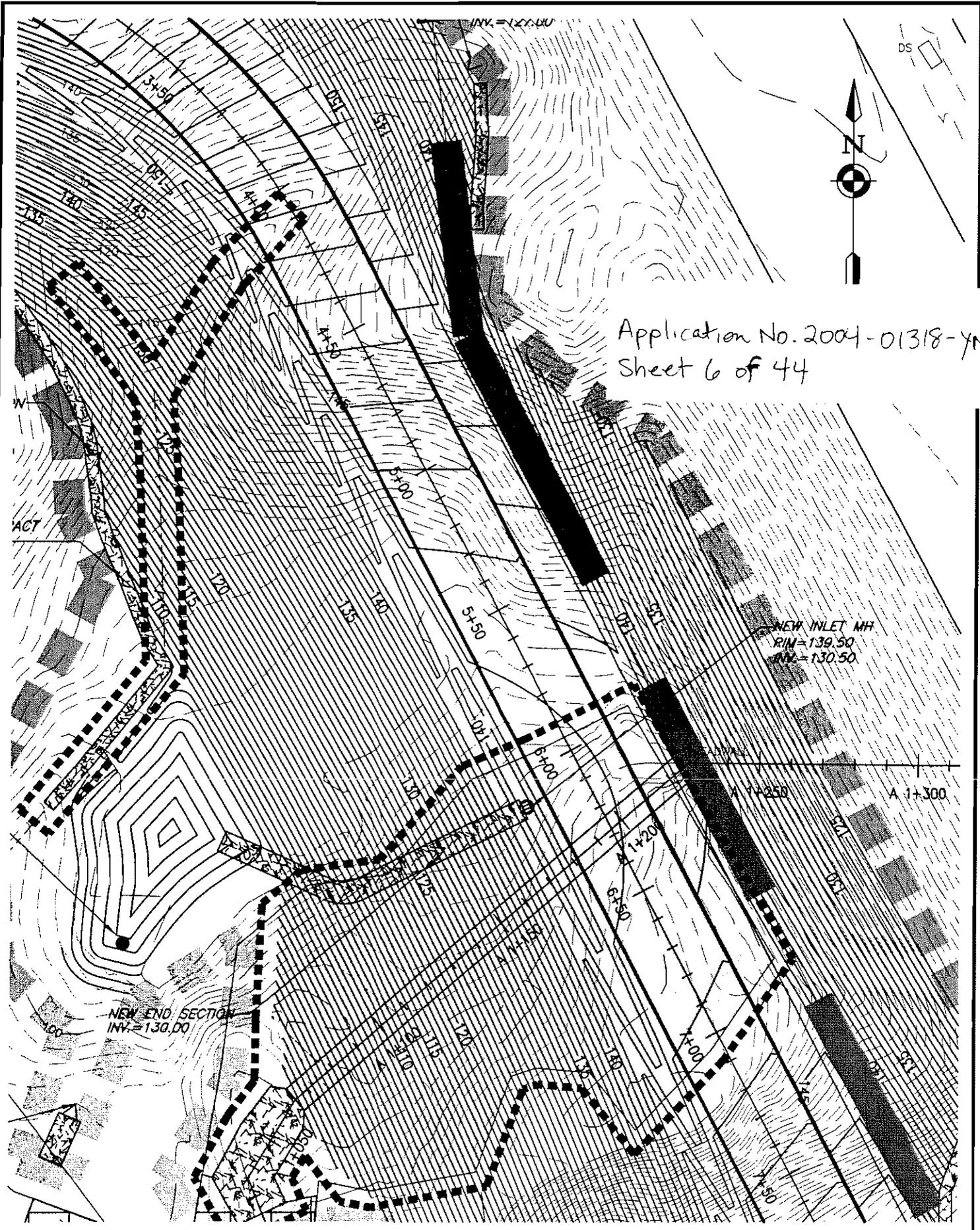
N/F  
33.71-9-5  
TENTH STREET



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SCHOOL AND ROAD SITE - SHEET #1  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK



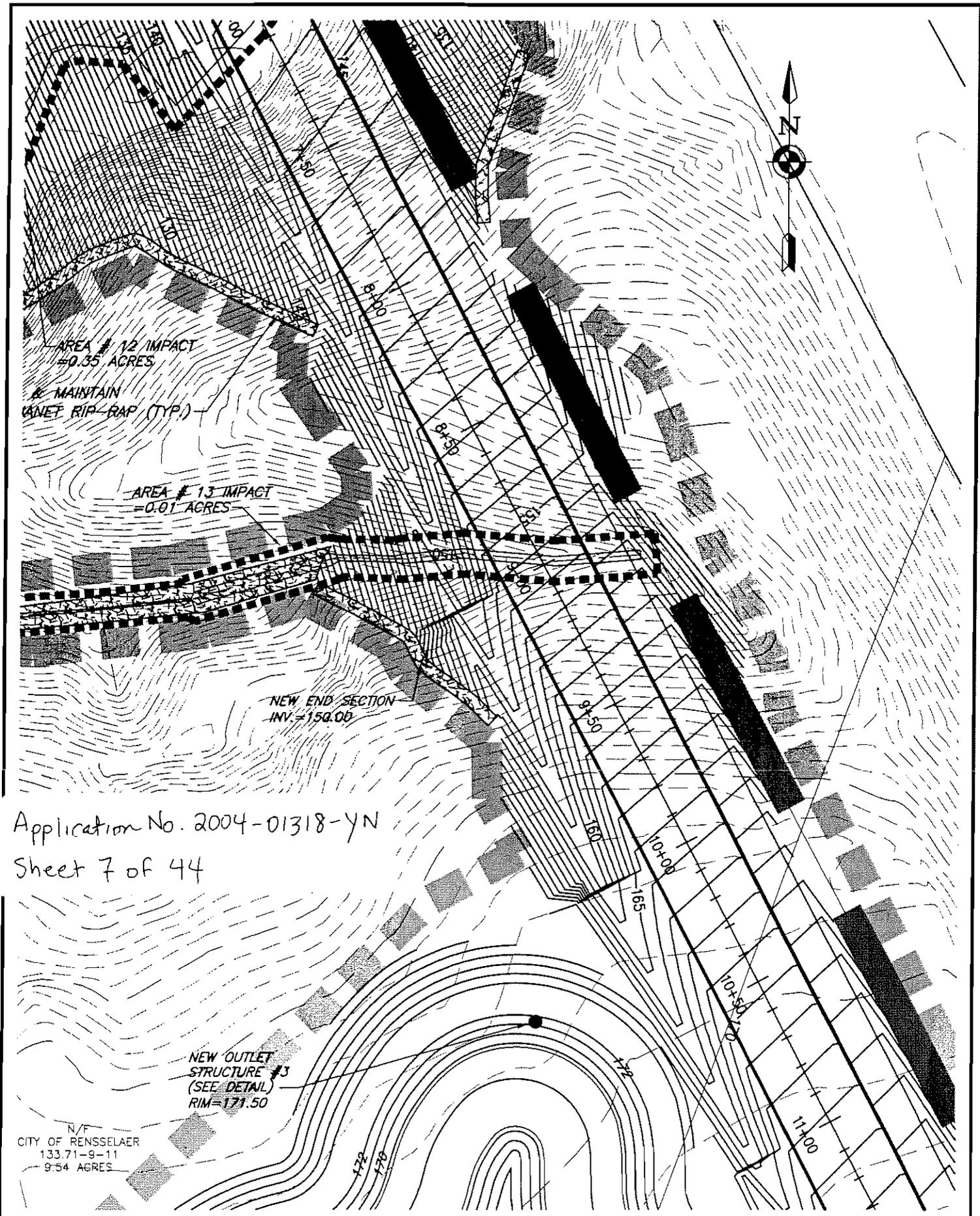
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SCHOOL AND ROAD SITE - SHEET #2  
 RENNELLAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENNELLAER, RENNELLAER COUNTY, NEW YORK



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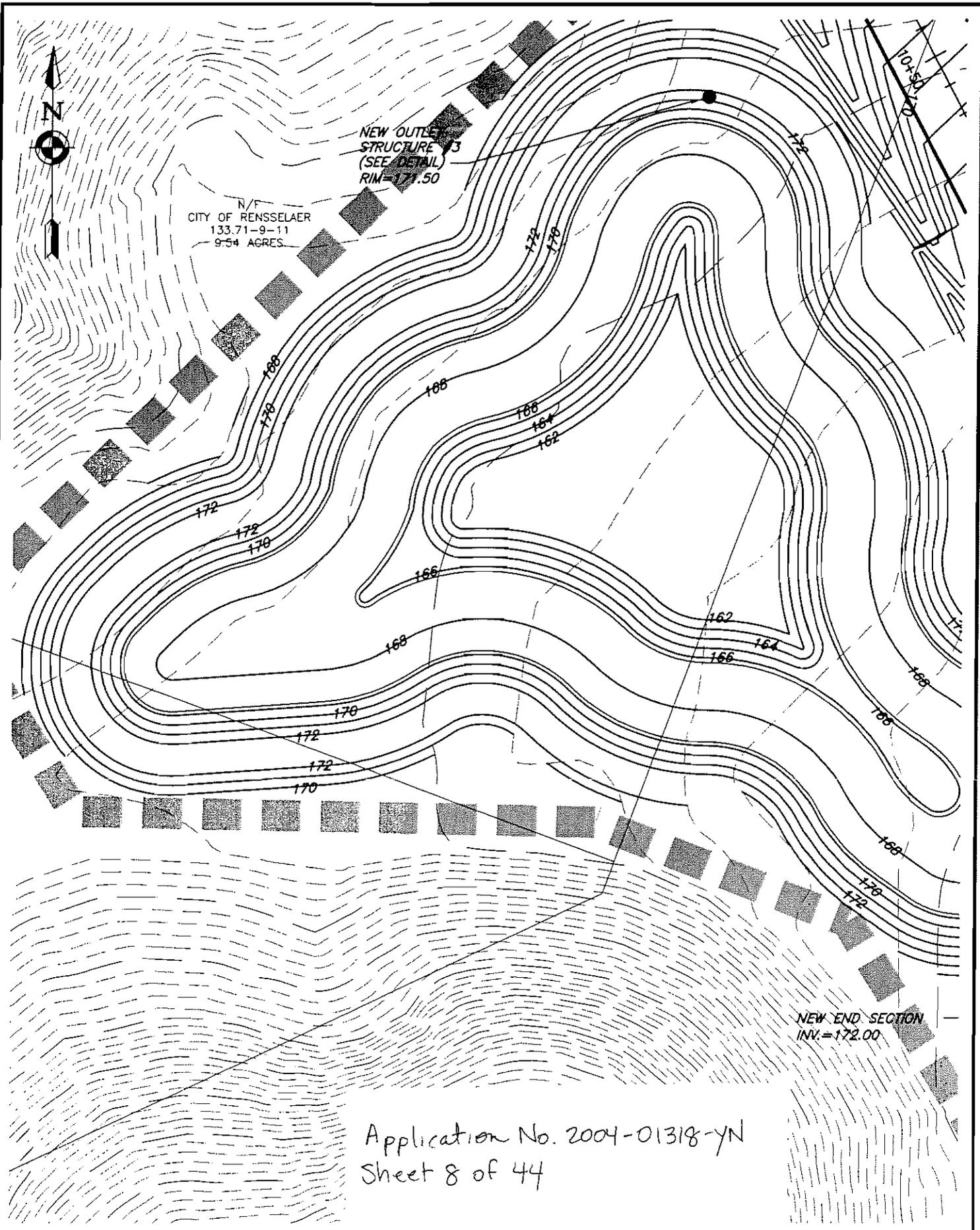
N/F  
 CITY OF RENNELAER  
 133.71-9-11  
 9.54 ACRES



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SCHOOL AND ROAD SITE - SHEET #3  
 RENNELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENNELAER, RENNELAER COUNTY, NEW YORK



N/F  
CITY OF RENNELAER  
133.71-9-11  
9.54 ACRES

NEW OUTLET  
STRUCTURE #3  
(SEE DETAIL)  
RIM=171.50

NEW END SECTION  
INV.=172.00

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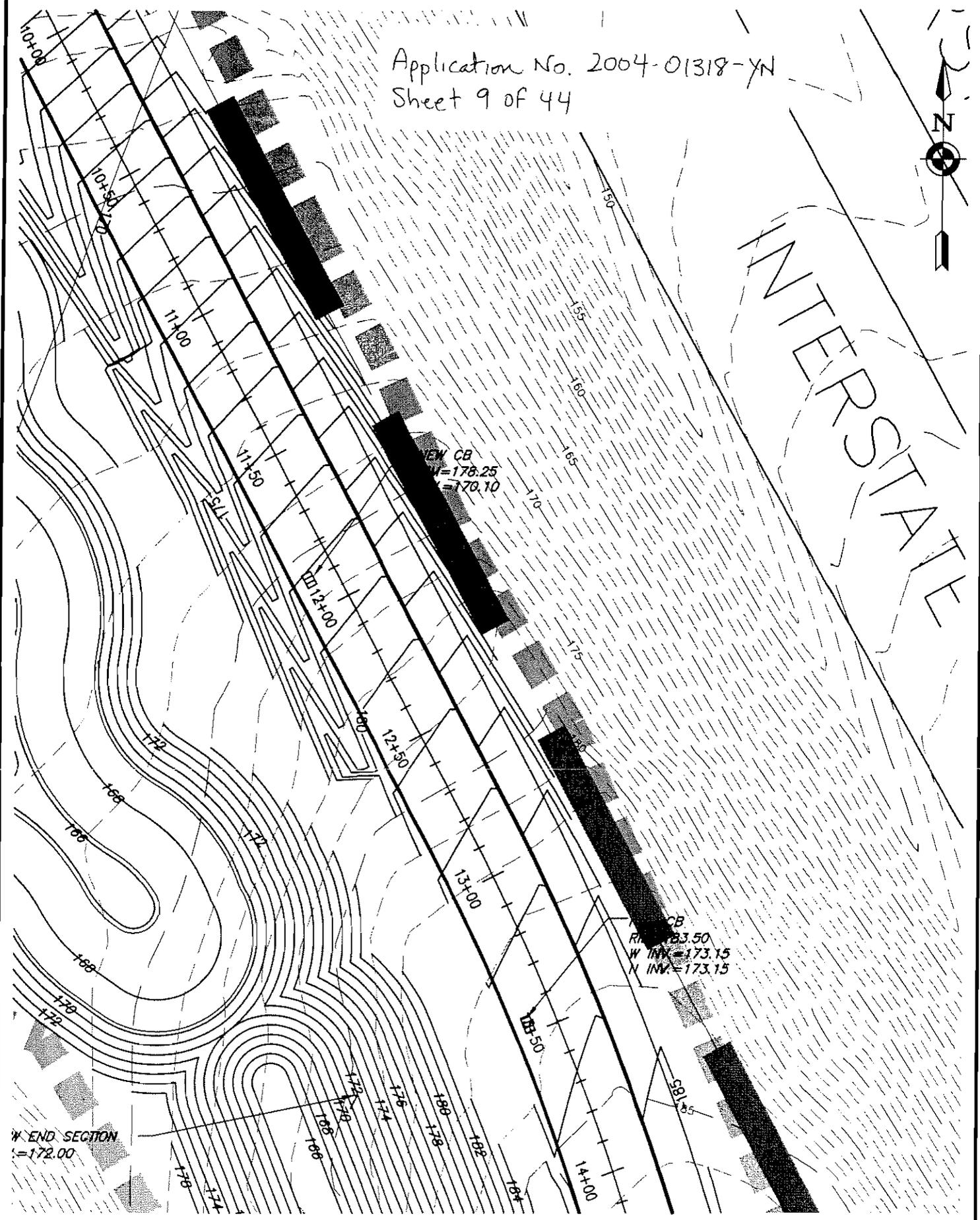
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SCHOOL AND ROAD SITE - SHEET #4  
RENSELAEER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENNELAER, RENNELAER COUNTY, NEW YORK

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INTERSTATE

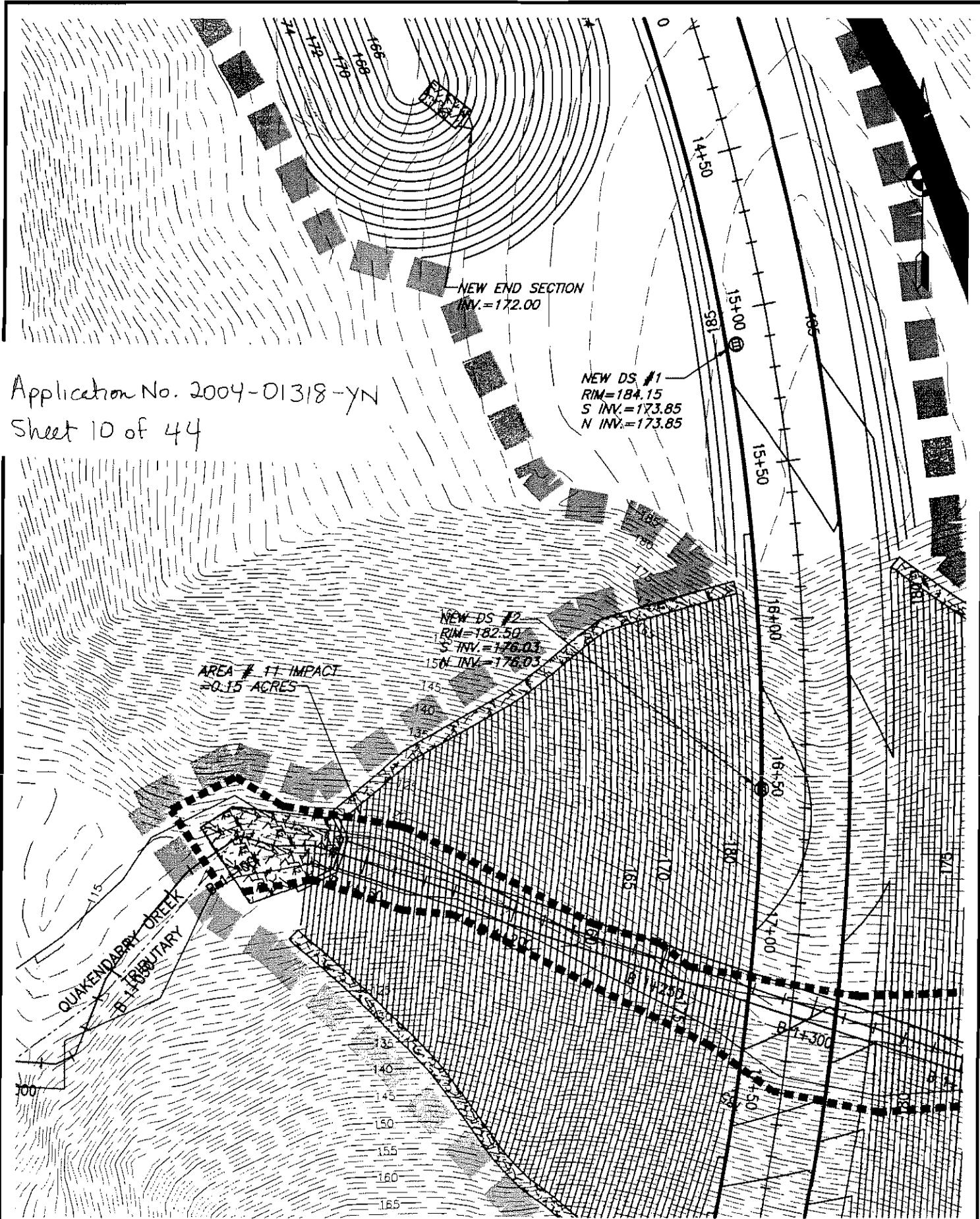


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SCHOOL AND ROAD SITE - SHEET #5  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

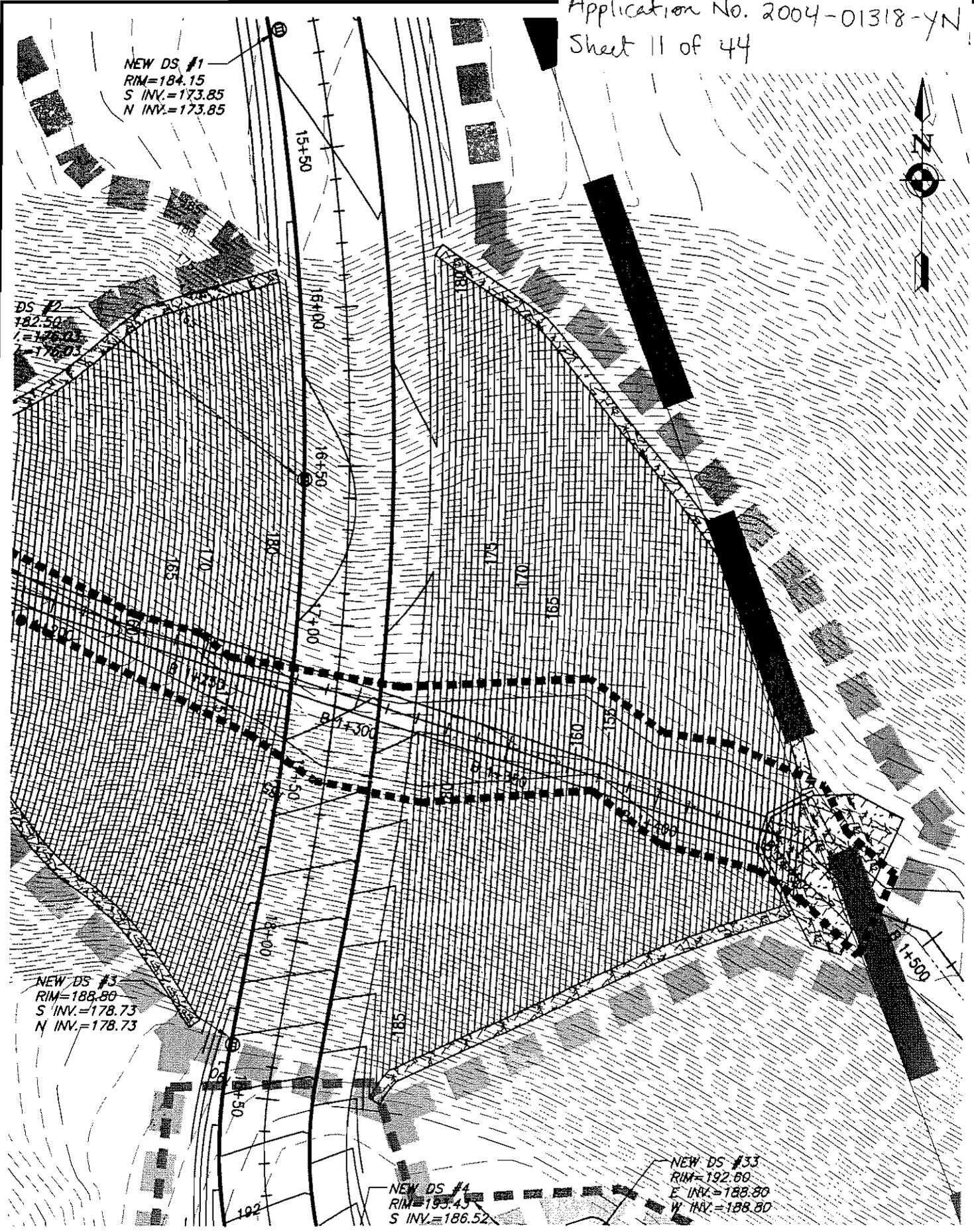
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SCHOOL AND ROAD SITE - SHEET #6  
 RENNELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENNELAER, RENNELAER COUNTY, NEW YORK



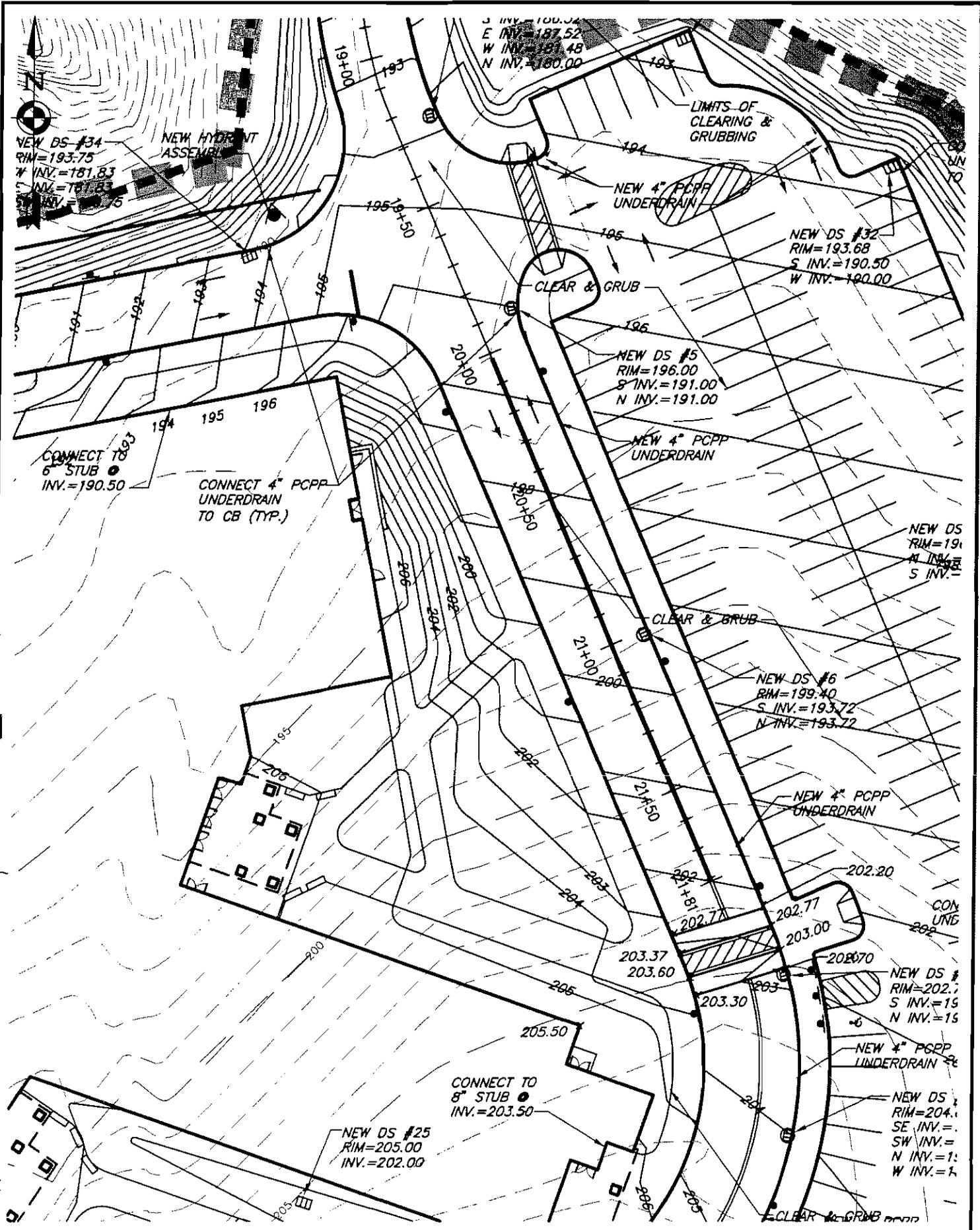
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SCHOOL AND ROAD SITE - SHEET #7  
 RENNELLAER CITY SCHOOL DISTRICT  
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 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENNELLAER, RENNELLAER COUNTY, NEW YORK



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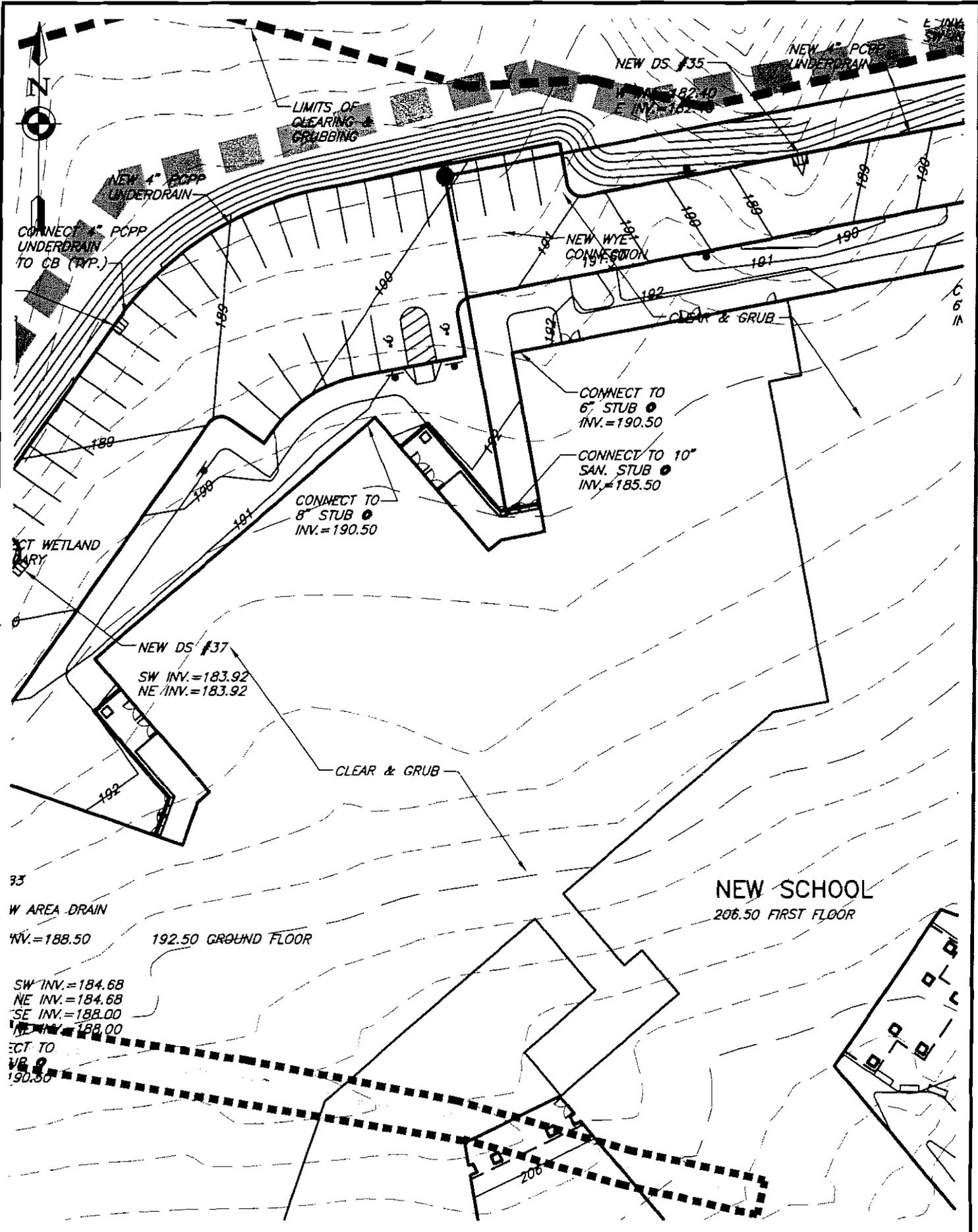


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SCHOOL AND ROAD SITE - SHEET #9  
 RENSSELAER CITY SCHOOL DISTRICT  
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 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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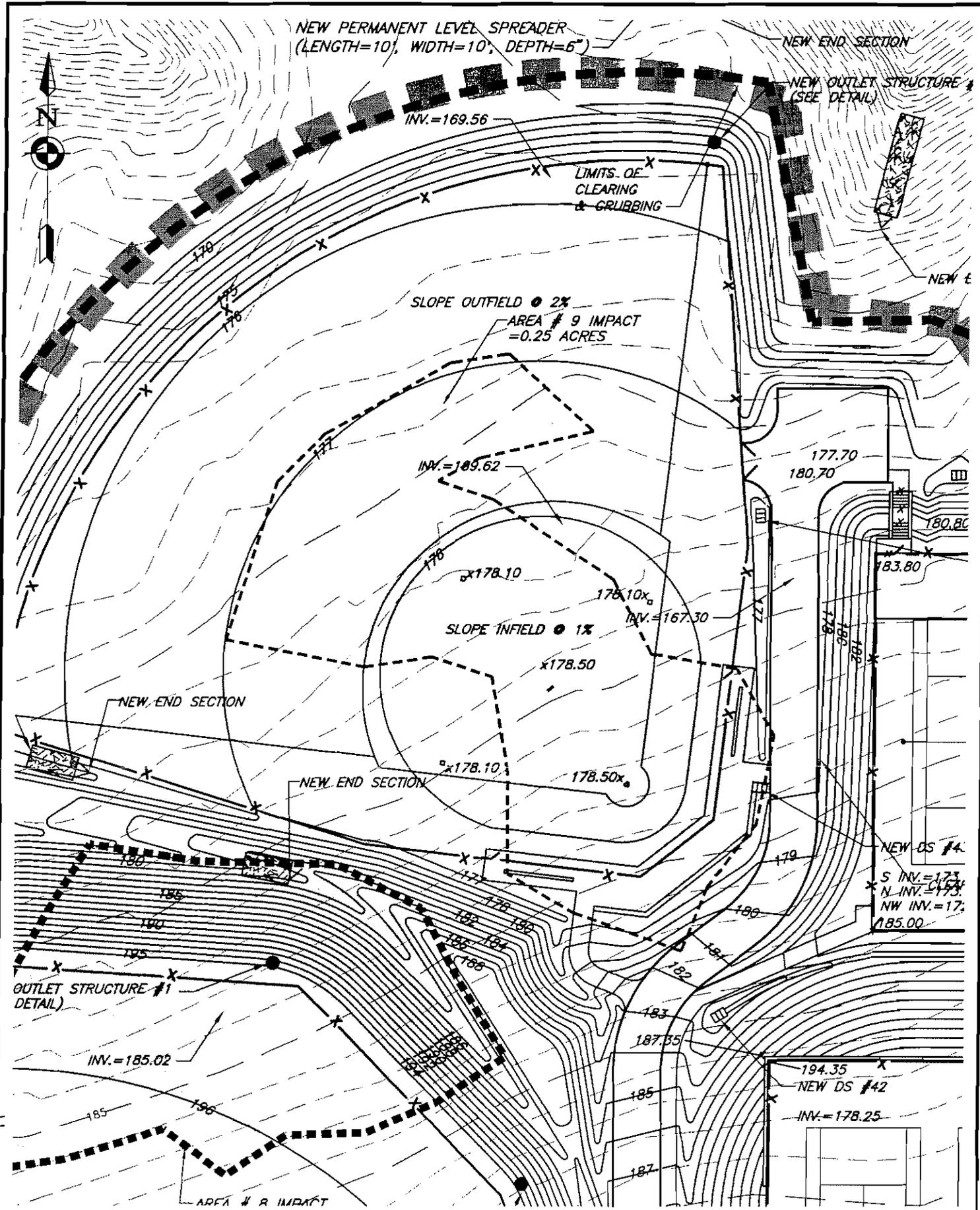
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SCHOOL AND ROAD SITE - SHEET #10  
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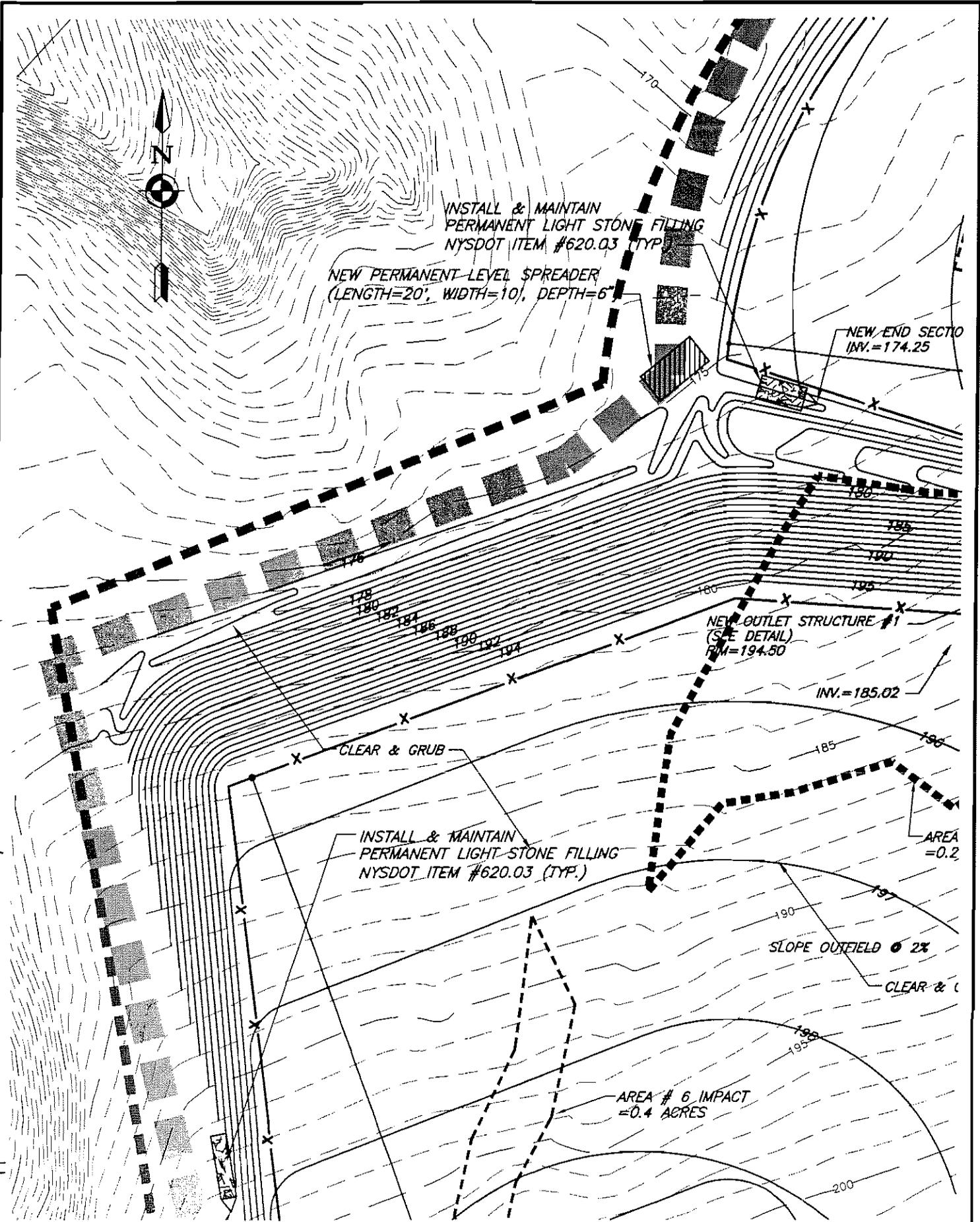


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SCHOOL AND ROAD SITE - SHEET #12  
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 CITY OF RENNELLAER, RENNELLAER COUNTY, NEW YORK

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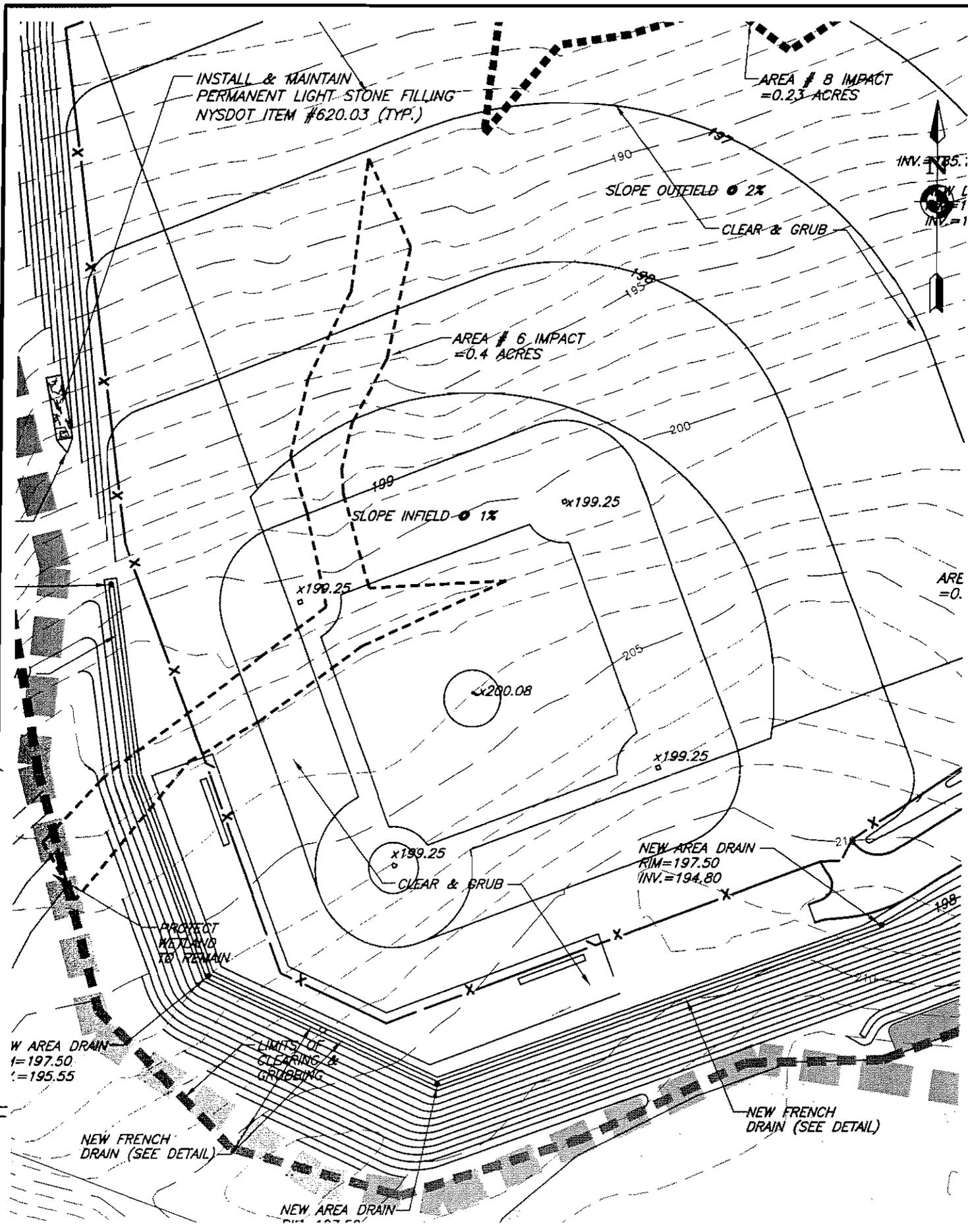


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SCHOOL AND ROAD SITE - SHEET #13  
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INSTALL & MAINTAIN PERMANENT LIGHT STONE FILLING NYSDOT ITEM #620.03 (TYP.)

AREA # 8 IMPACT = 0.23 ACRES

SLOPE OUTFIELD @ 2%

CLEAR & GRUB

AREA # 6 IMPACT = 0.4 ACRES

SLOPE INFIELD @ 1%

ARE = 0.

NEW AREA DRAIN RIM=197.50 INV.=194.80

CLEAR & GRUB

PROTECT EXISTING TO REMAIN

W AREA DRAIN I=197.50 I=195.55

LIMITS OF CLEARING & GRUBBING

NEW FRENCH DRAIN (SEE DETAIL)

NEW FRENCH DRAIN (SEE DETAIL)

NEW AREA DRAIN

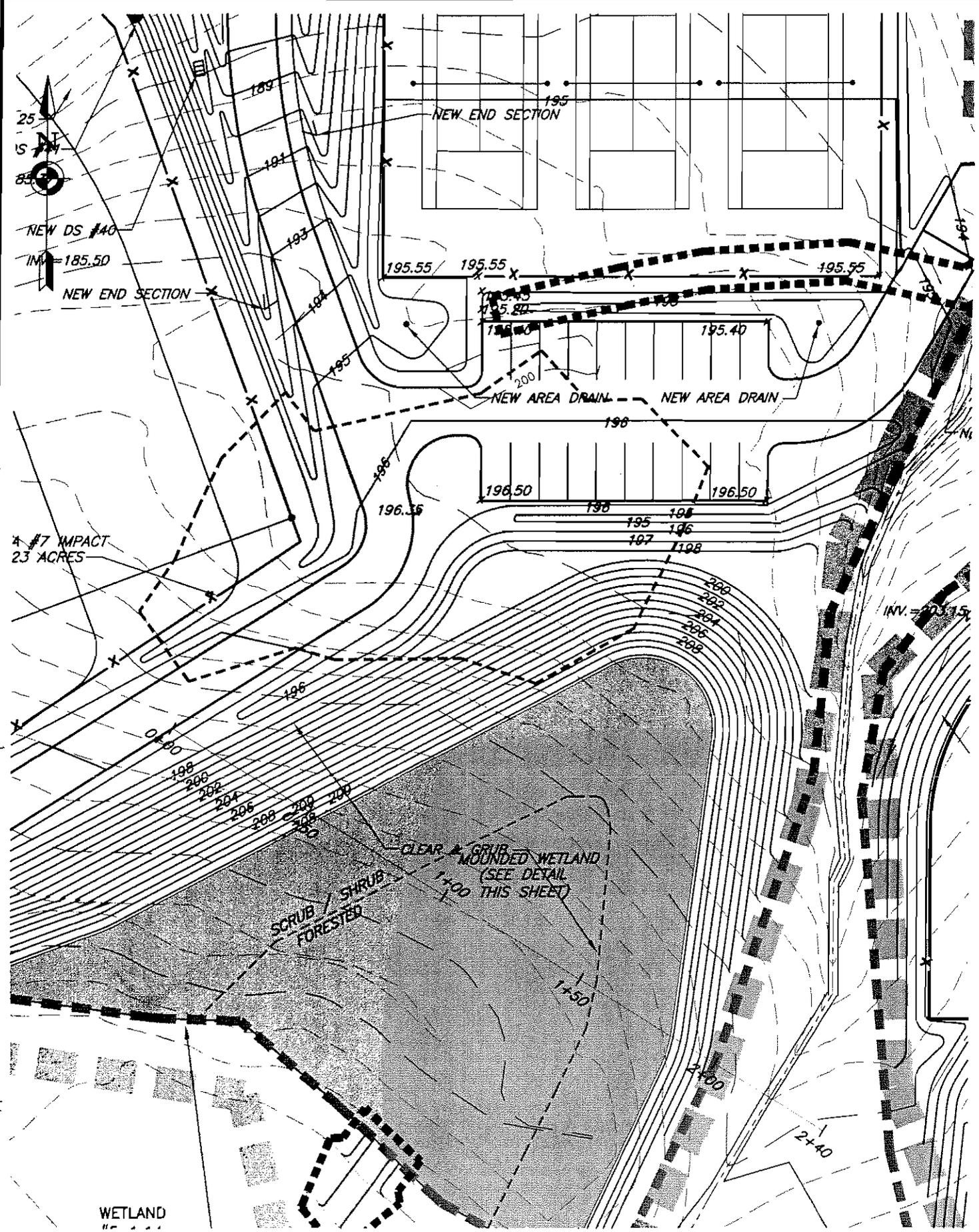


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SCHOOL AND ROAD SITE - SHEET #14  
 RENSSELAER CITY SCHOOL DISTRICT  
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 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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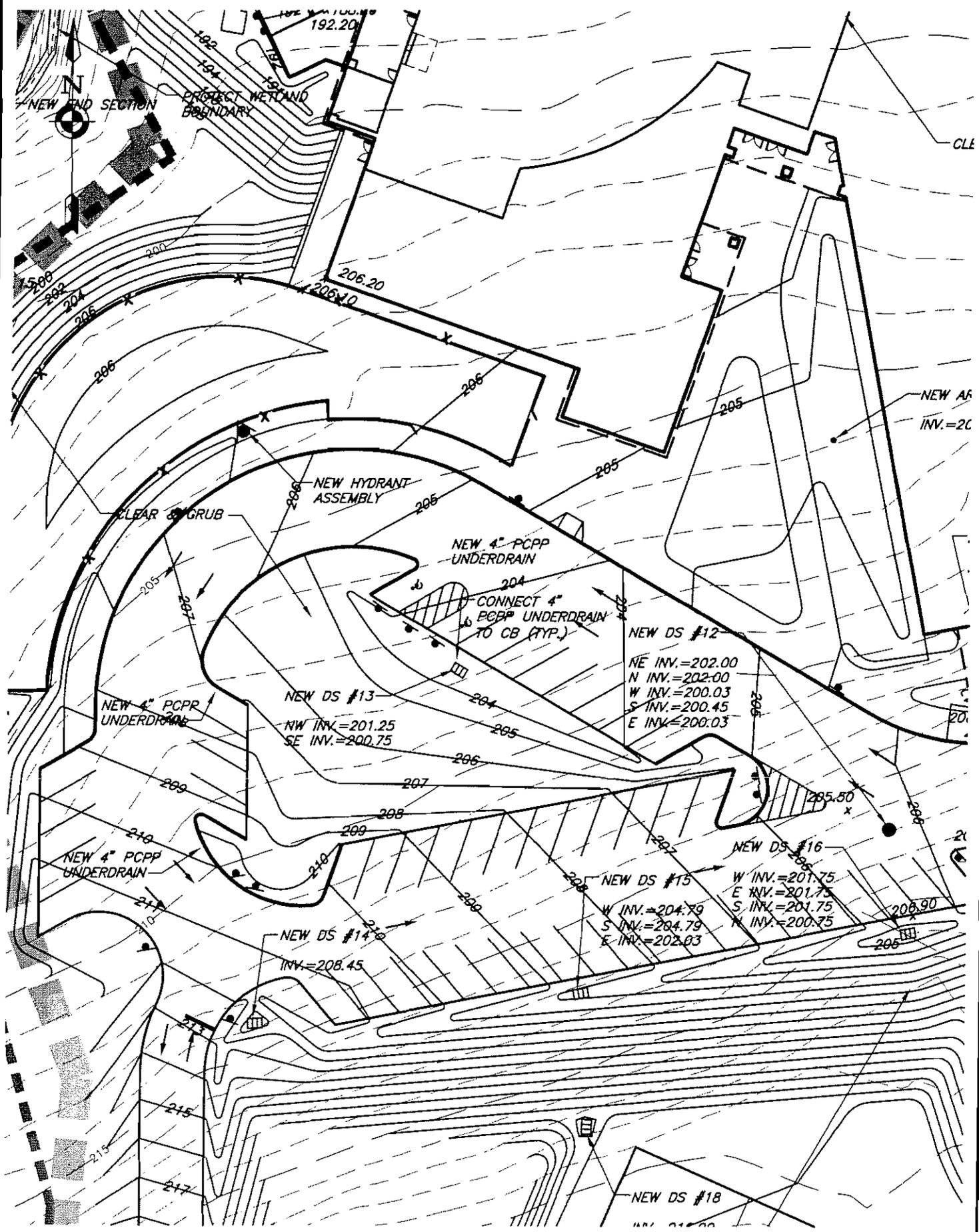


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SCHOOL AND ROAD SITE - SHEET #15  
 RENSSELAER CITY SCHOOL DISTRICT  
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 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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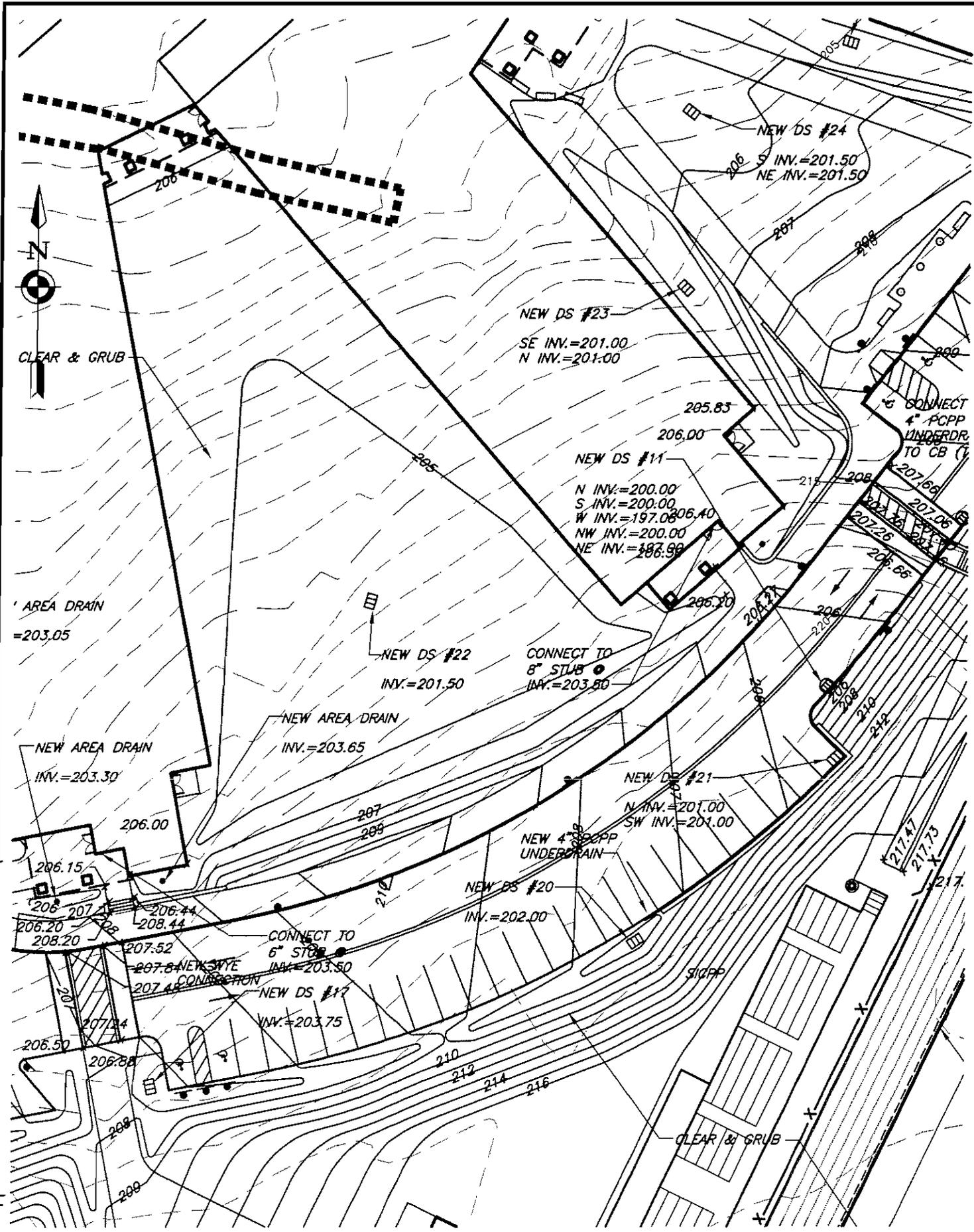


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**SCHOOL AND ROAD SITE - SHEET #16**  
 RENSSELAER CITY SCHOOL DISTRICT  
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 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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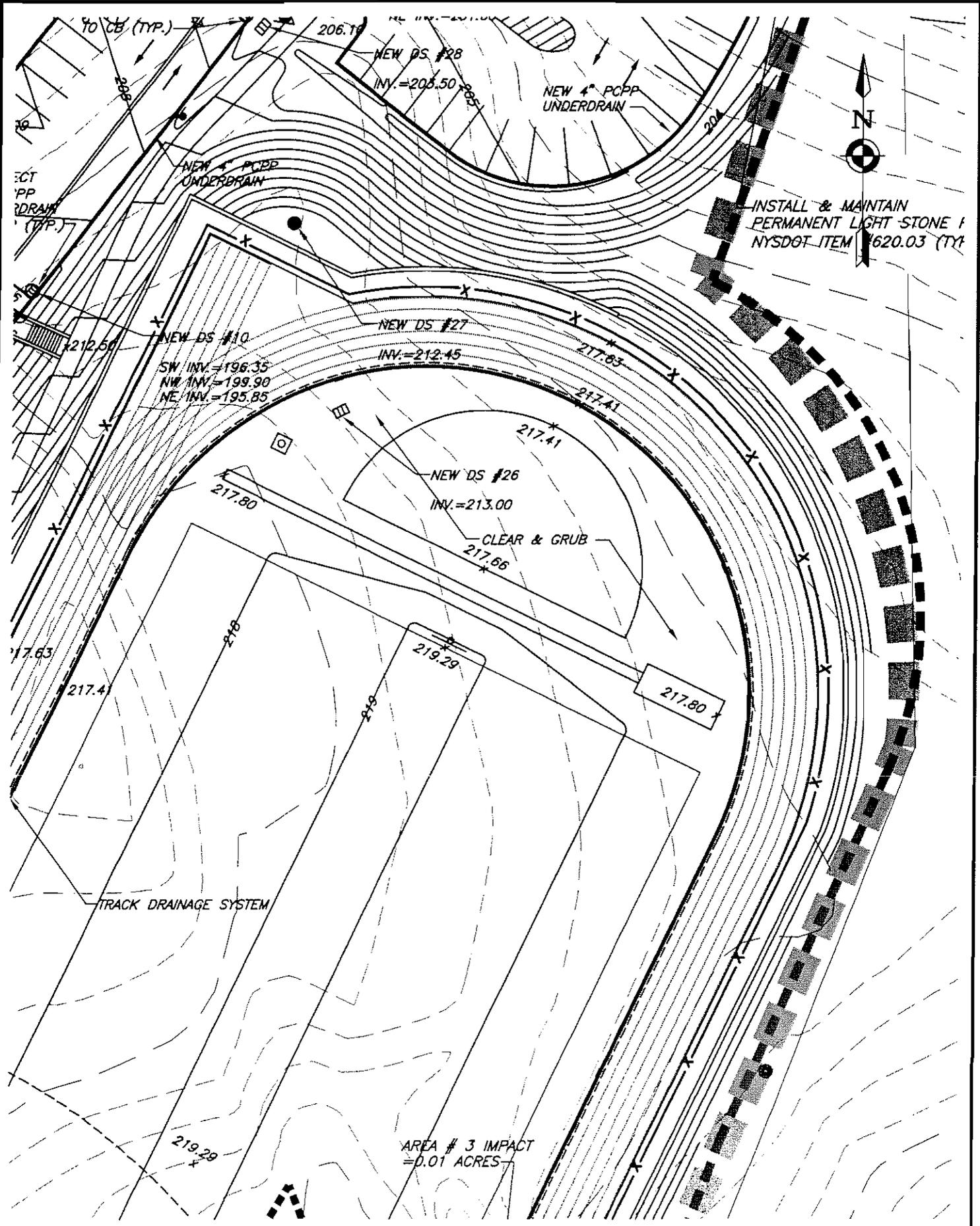


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SCHOOL AND ROAD SITE - SHEET #17  
RENSELAER CITY SCHOOL DISTRICT  
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NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK

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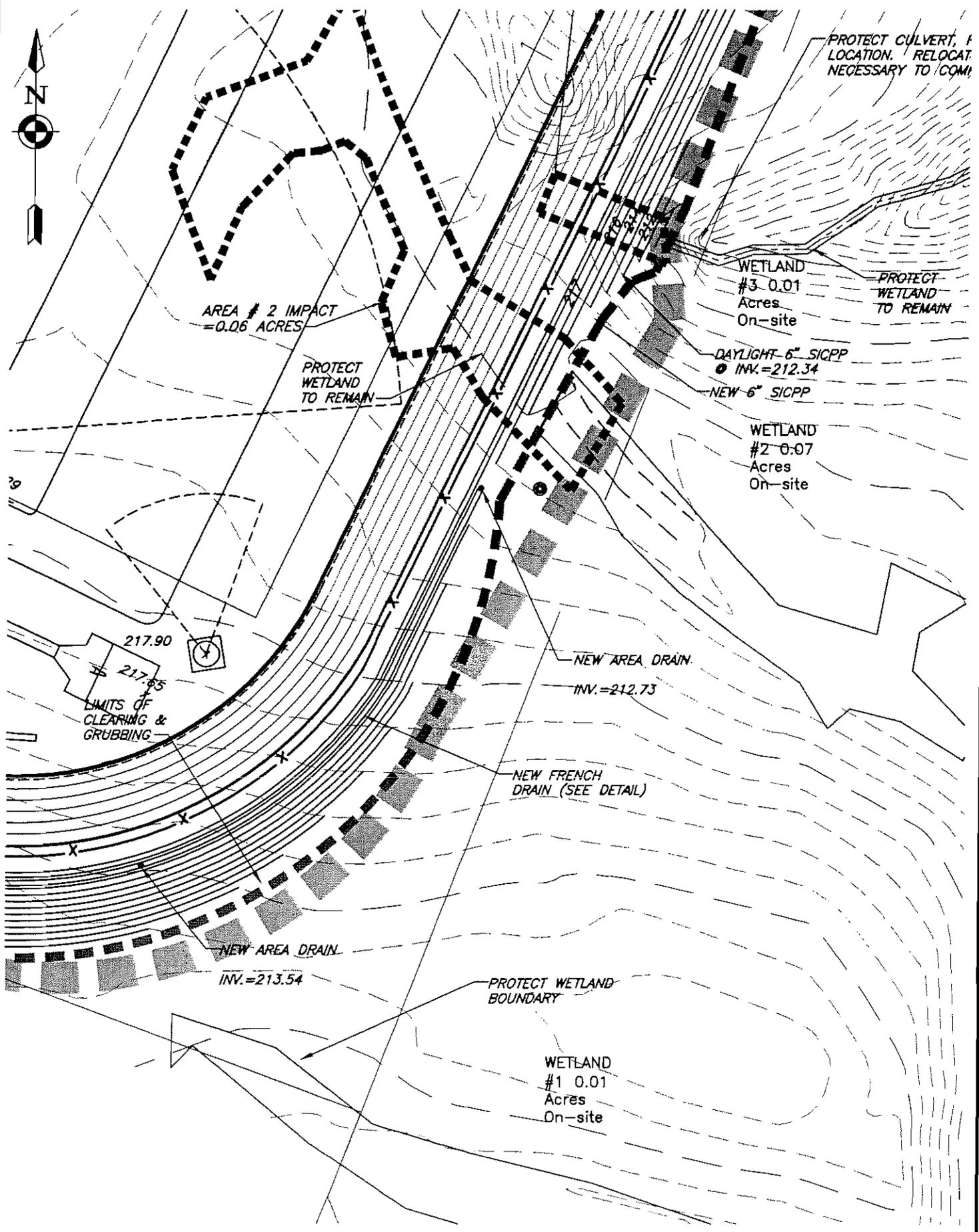


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186 NORTH WATER STREET  
ROCHESTER, NEW YORK 14604  
(585) 454-7600  
www.clarkpatterson.com

DATE: 2/07/06  
DRAWN: NPD  
CHECKED: RGR  
SCALE: 1"=40'  
PROJ. #:09898.00

SCHOOL AND ROAD SITE - SHEET #18  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK

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PROTECT CULVERT, LOCATION. RELOCAT. NECESSARY TO COM!

WETLAND #3 0.01 Acres On-site

PROTECT WETLAND TO REMAIN

DAYLIGHT 6" SICPP  
● INV.=212.34  
NEW 6" SICPP

WETLAND #2 0.07 Acres On-site

AREA # 2 IMPACT = 0.06 ACRES

PROTECT WETLAND TO REMAIN

217.90  
217.85  
LIMITS OF CLEARING & GRUBBING

NEW AREA DRAIN  
INV.=212.73

NEW FRENCH DRAIN (SEE DETAIL)

NEW AREA DRAIN  
INV.=213.54

PROTECT WETLAND BOUNDARY

WETLAND #1 0.01 Acres On-site

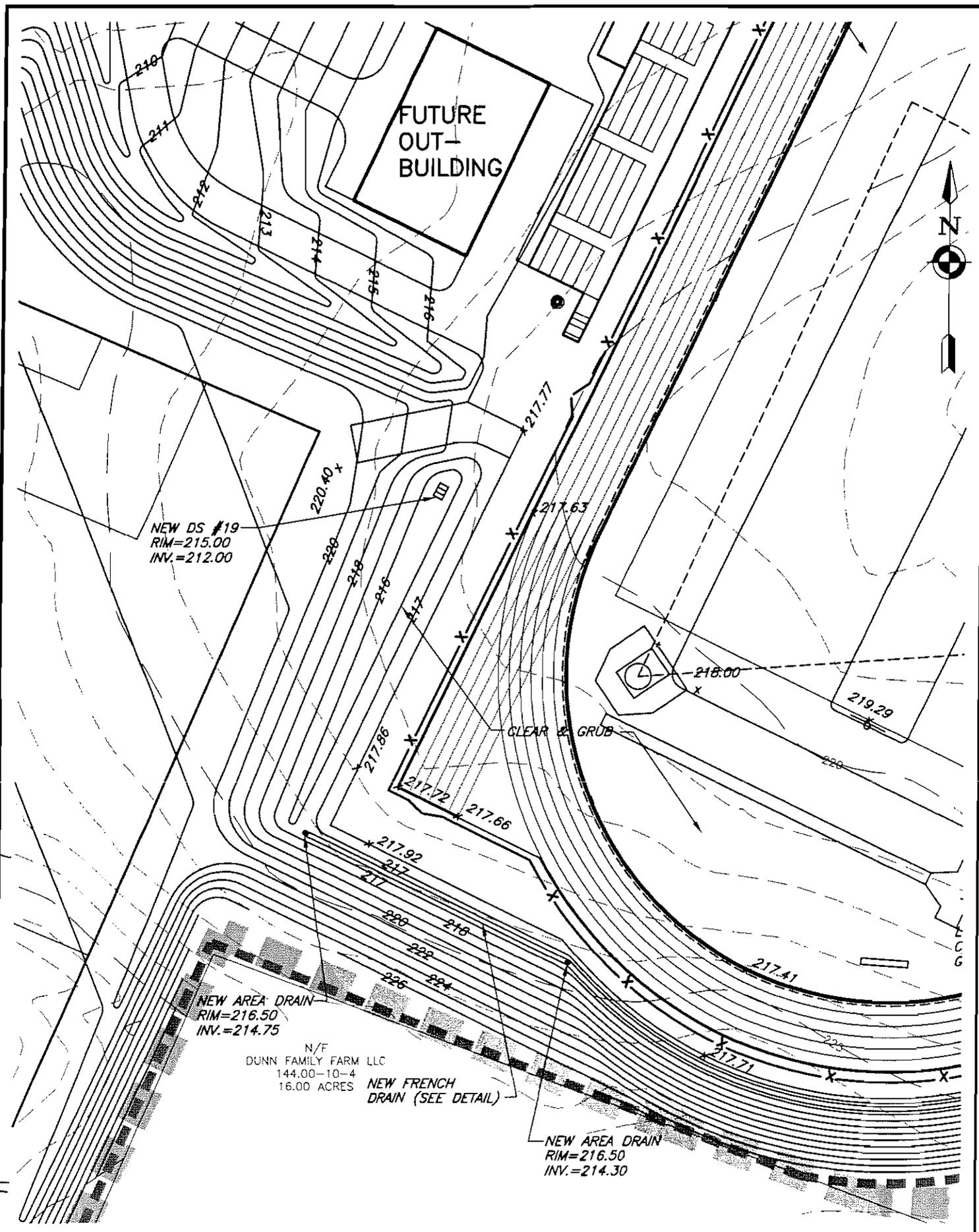


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SCHOOL AND ROAD SITE - SHEET #19  
RENSSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

Application No. 2004-01318-YN Sheet 24 of 44

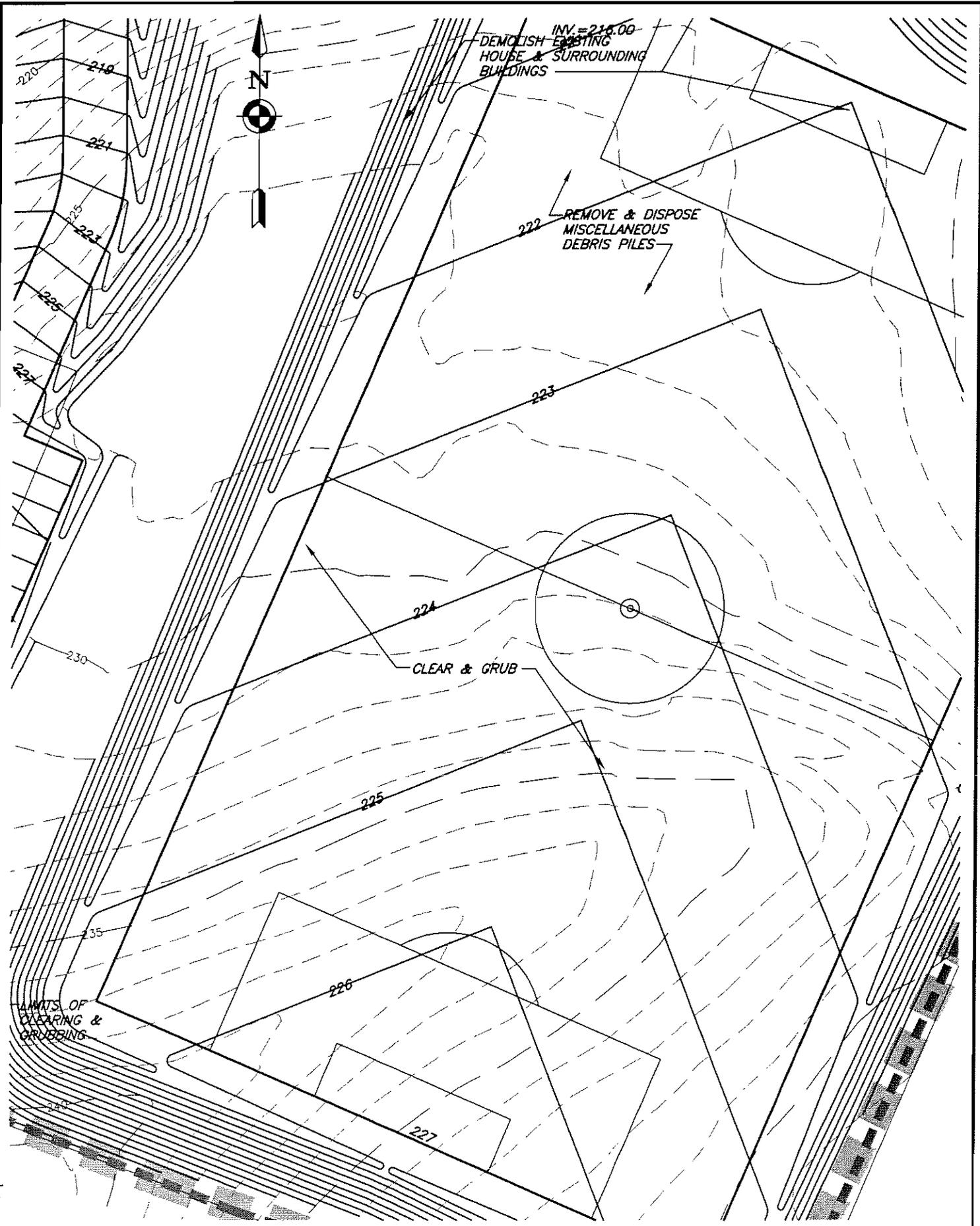


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SCHOOL AND ROAD SITE - SHEET #20  
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 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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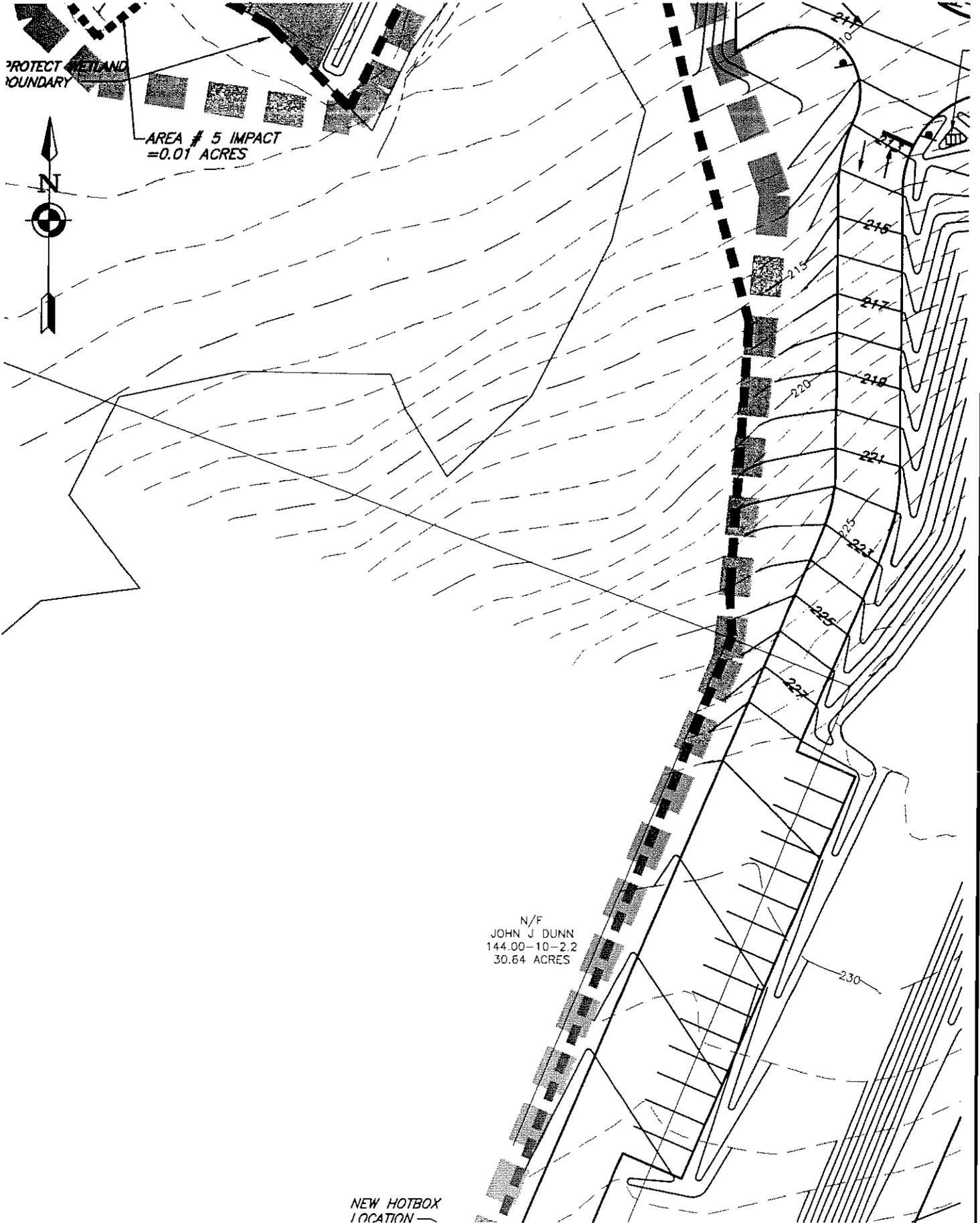


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SCHOOL AND ROAD SITE - SHEET #21  
RENSSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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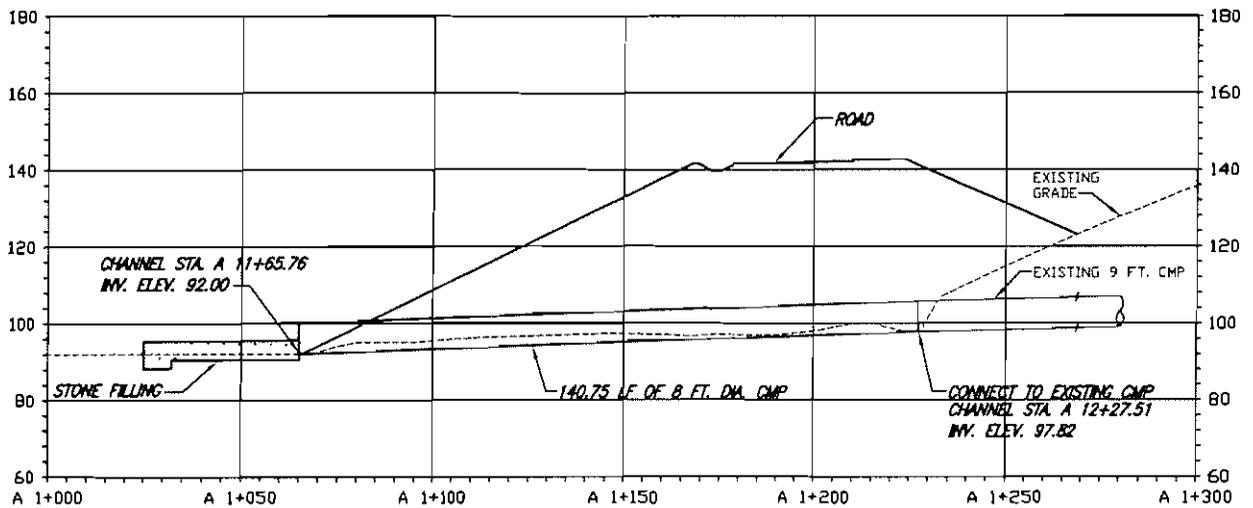


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SCHOOL AND ROAD SITE - SHEET #22  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK

Application No. 2004-01318-YN Sheet 27 of 44



**LONGITUDINAL SECTION**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=50'

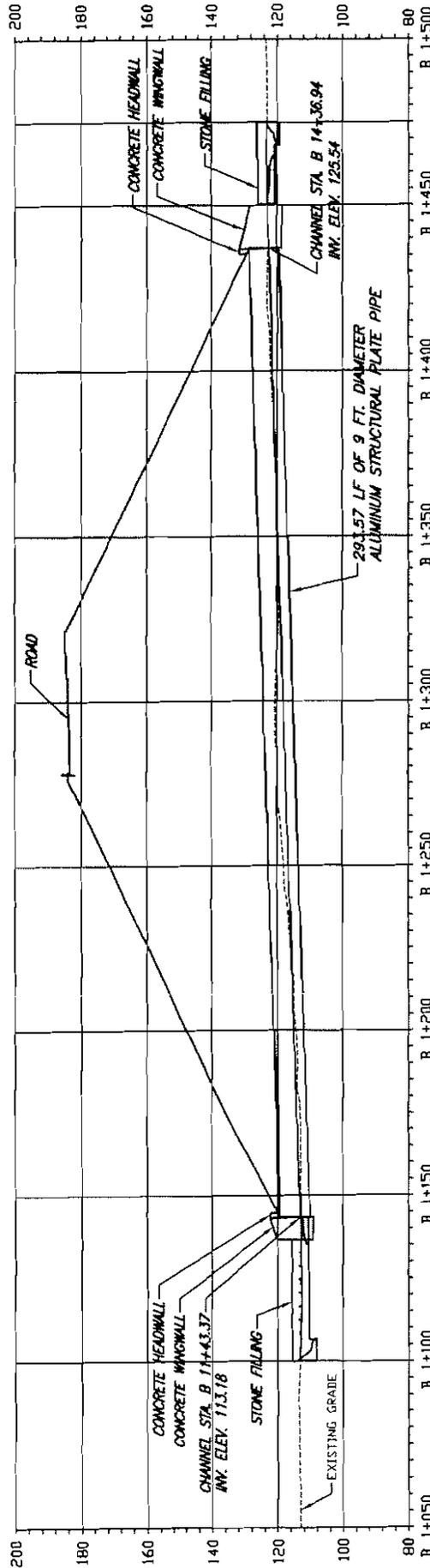


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 SCALE: AS NOTED  
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ROAD SITE - SECTION "A"  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

Application No. 2004-01318-YN Sheet 28 of 44



**LONGITUDINAL SECTION**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=50'

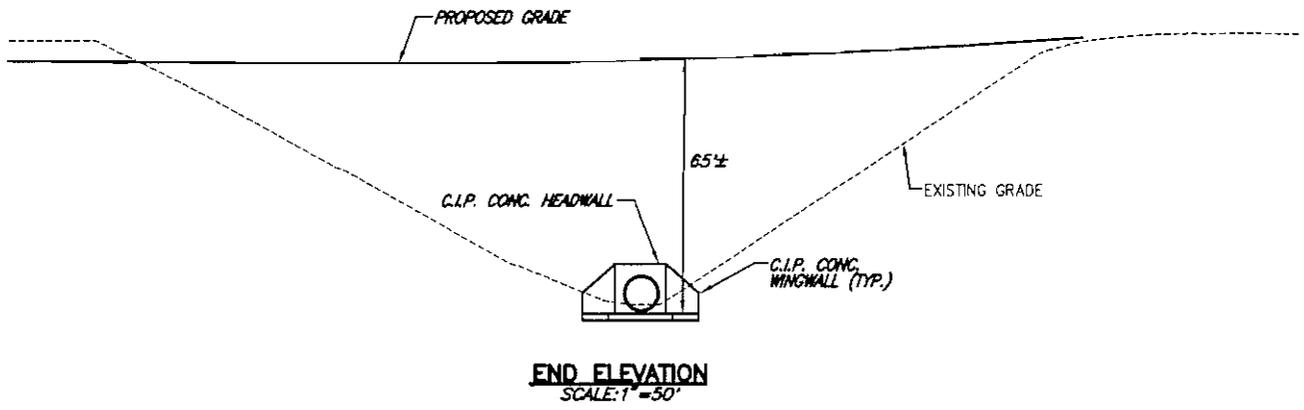


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ROAD SITE - SECTION "B"  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

Application No. 2004-01318-YN Sheet 29 of 44

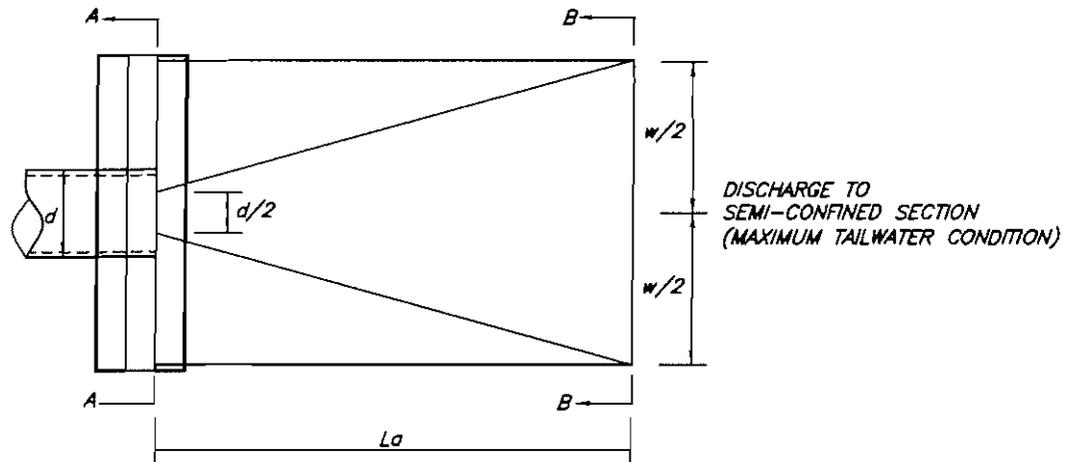


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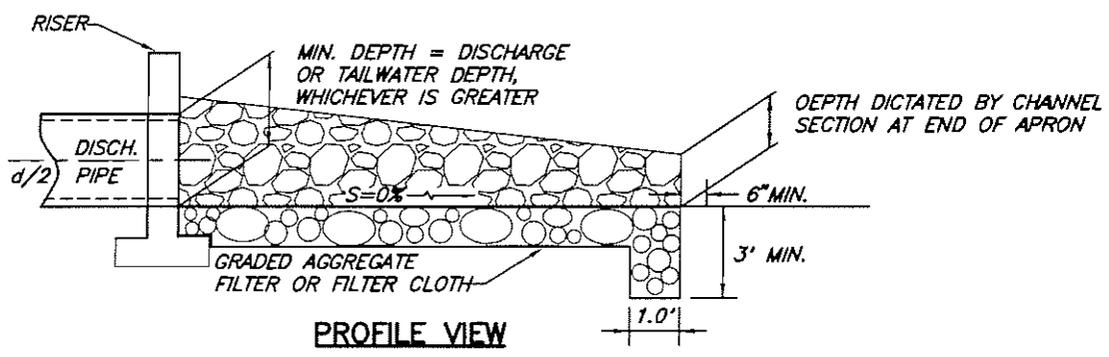
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CHECKED: NEG  
SCALE: AS NOTED  
PROJ. #: 09898.00

ROAD SITE - SECTION "B" END ELEVATION  
RENSSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

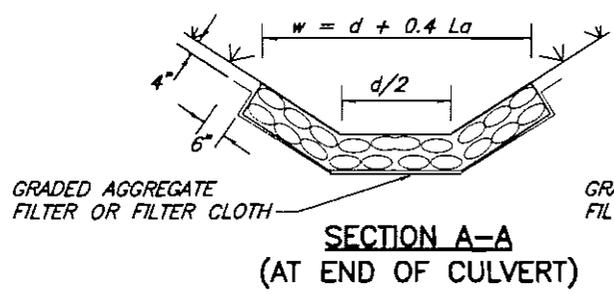
Application No. 2004-01318-YN Sheet 30 of 44



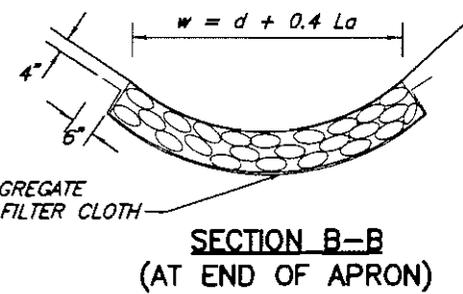
**PLAN VIEW**



**PROFILE VIEW**



**SECTION A-A  
(AT END OF CULVERT)**



**SECTION B-B  
(AT END OF APRON)**

**NOTE:**  
SEE RIP-RAP STANDARDS AND SPECIFICATIONS  
MAXIMUM TAILWATER CONDITIONS

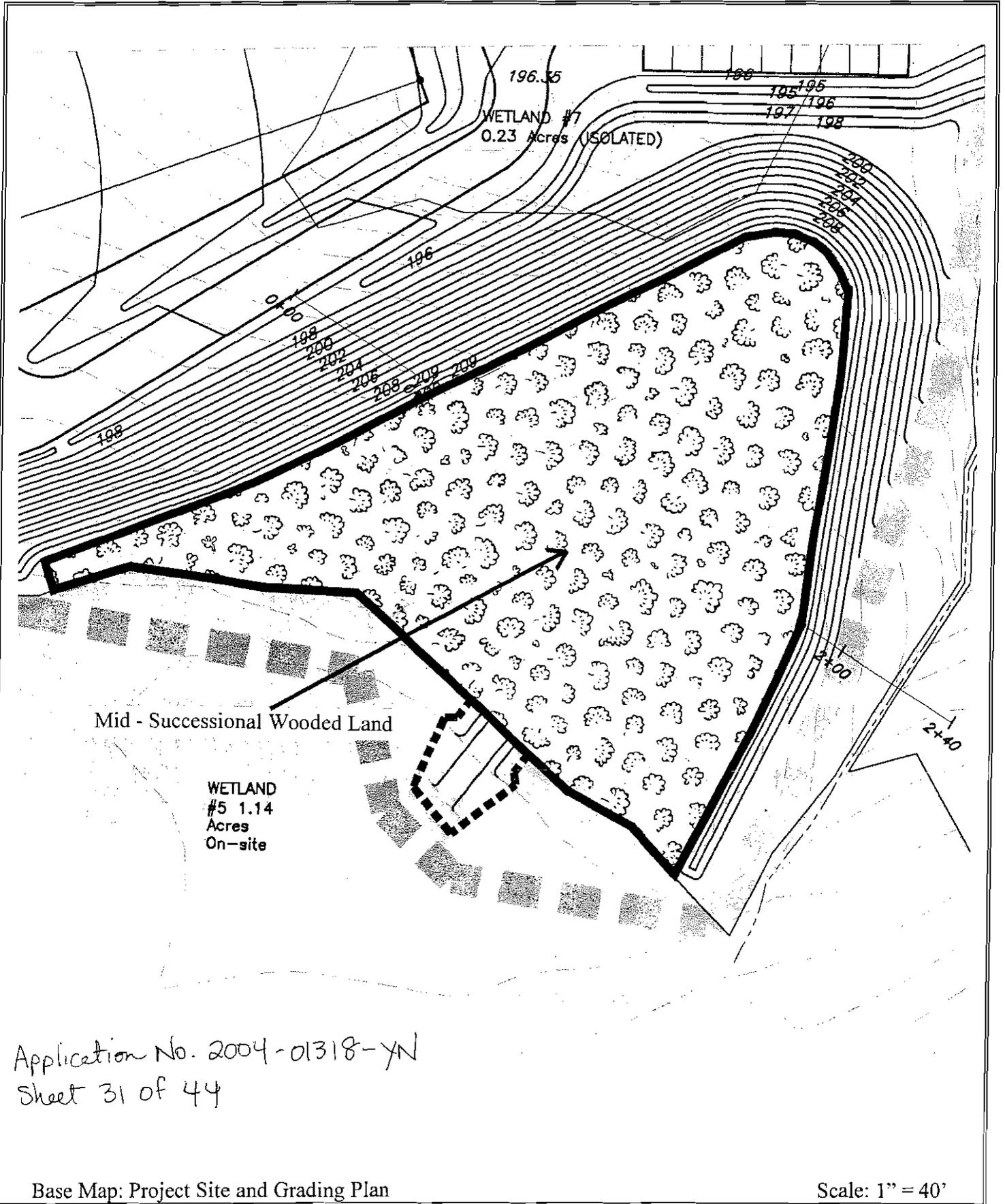
**RIP-RAP OUTLET  
PROTECTION**  
N.T.S.

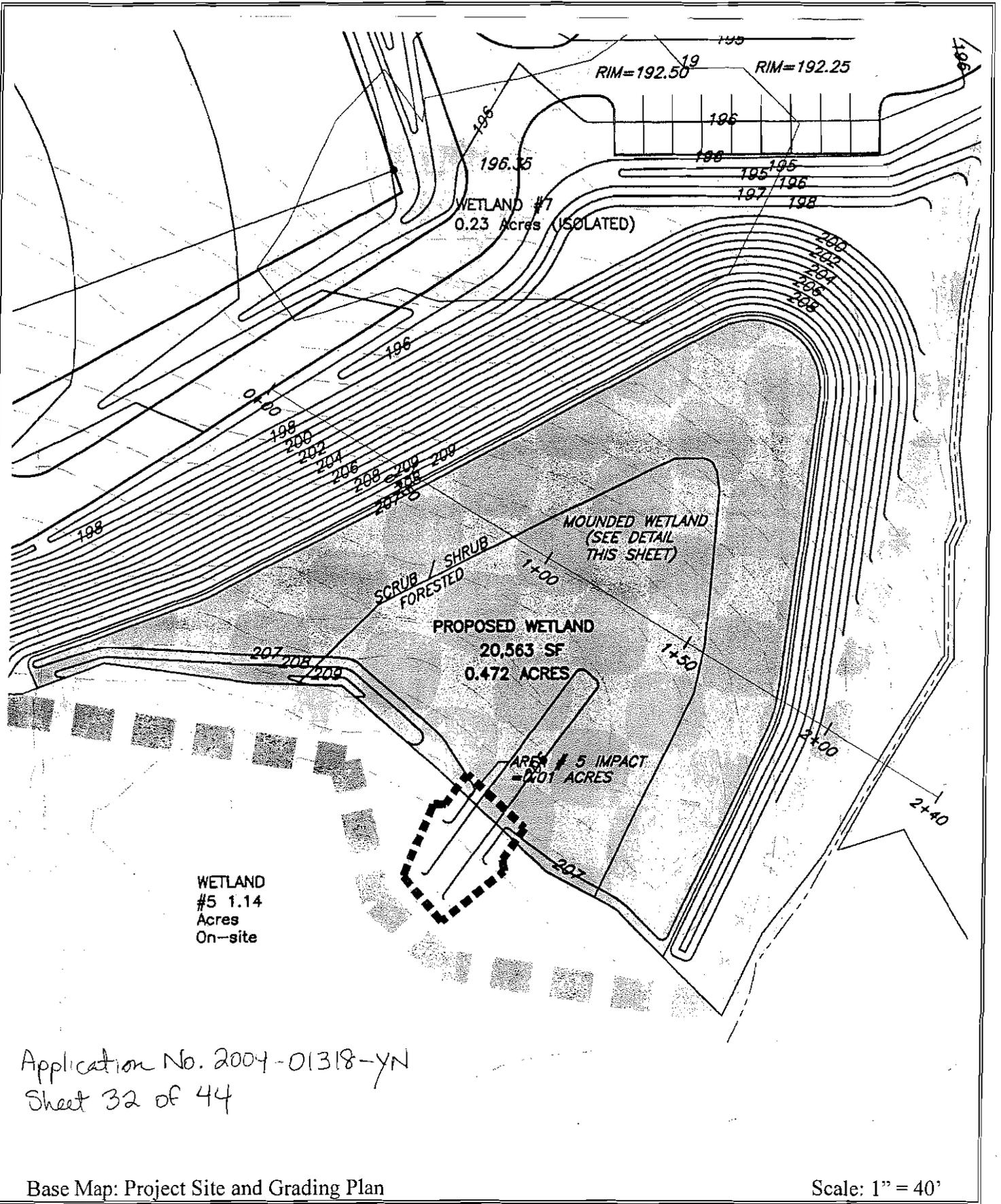


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RIP-RAP - OUTLET PROTECTION DETAIL  
RENSSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK





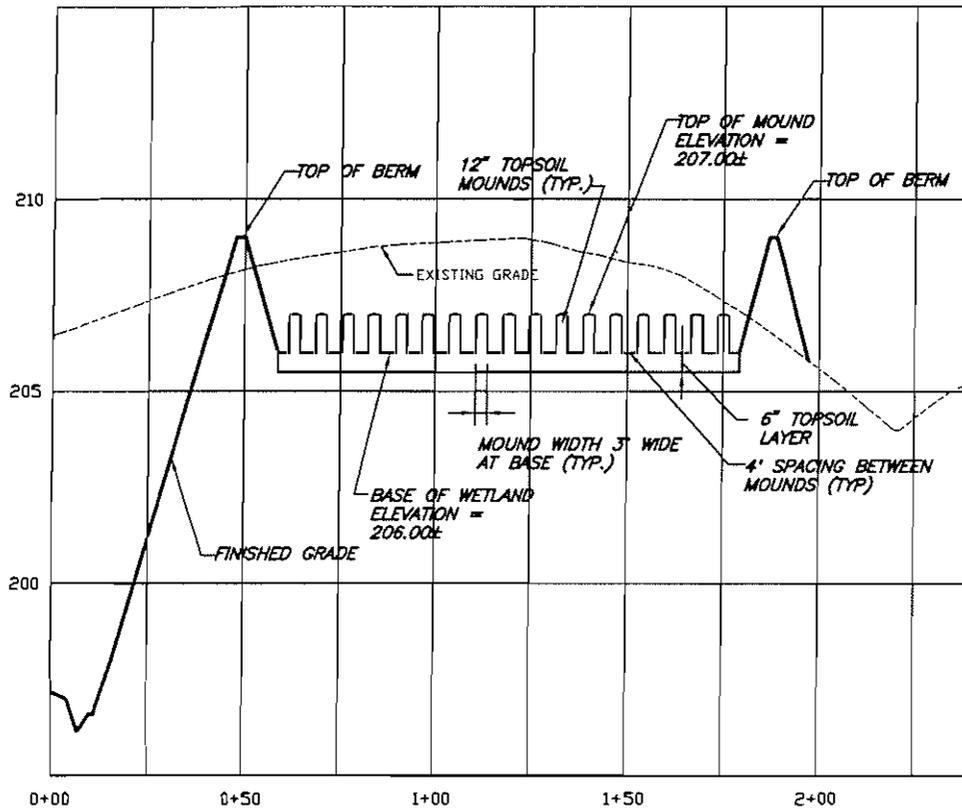
Application No. 2004-01318-YN  
 Sheet 32 of 44

Base Map: Project Site and Grading Plan

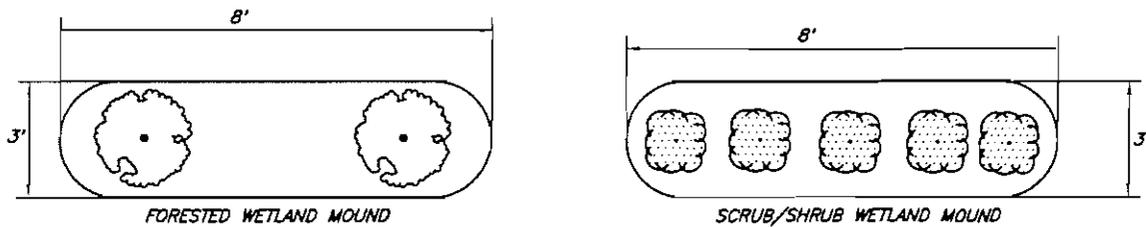
Scale: 1" = 40'

North Country Ecological Services  
 173 Willie Road  
 Gloversville, N.Y. 12078

**FIGURE 5 – PROPOSED VEGETATIVE COVER TYPES**



**WETLAND SECTION**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'



**MOUND PLAN**

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 SCALE: AS NOTED  
 PROJ. #: 09898.00

SCHOOL SITE - PROPOSED WETLAND SECTION  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

<b>FORESTED WETLAND PLANT LIST</b>				
<b>KEY</b>	<b>LATIN NAME</b>	<b>COMMON NAME</b>	<b>CALIBER</b>	<b>QTY</b>
AR	ACER RUBRUM	RED MAPLE	4' CONT.	30
FP	FRAXINUS PENNSYLVANICA	GREEN ASH	4' CONT.	30
QB	QUERCUS BICOLOR	SWAMP WHITE OAK	4' CONT.	20
QP	QUERCUS PALUSTRIS	PIN OAK	4' CONT.	20
PD	POPULUS DELTOIDES	COTTONWOOD	4' CONT.	10
SD	SALIX DISCOLOR	PUSSY WILLOW	18" BRTR	25
CA	CORNUS AMOMUM	SILKY DOGWOOD	18" BRTR	25

APPLY NORTHEAST WETLAND FOREST HERB MIX (AS SUPPLIED BY SOUTHERN TIER CONSULTING, INC) AT A RATE OF 2 LBS / 1,000 SF

<b>SCRUB / SHRUB WETLAND PLANT LIST</b>				
<b>KEY</b>	<b>LATIN NAME</b>	<b>COMMON NAME</b>	<b>CALIBER</b>	<b>QTY</b>
CA	CORNUS AMOMUM	SILKY DOGWOOD	18" BRTR	100
CR	CORNUS RACEMOSA	GREY DOGWOOD	18" BRTR	100
CS	CORNUS SERICEA	RED OSIER DOGWOOD	18" BRTR	75
SN	SALIX NIGRA	BLACK WILLOW	18" BRTR	75
SD	SALIX DISCOLOR	PUSSY WILLOW	18" BRTR	100
AU	ALNUS RUGOSA	SPECKLED ALDER	4' CONT.	50

APPLY NORTHEAST WETLAND DIVERSITY MIX (AS SUPPLIED BY SOUTHERN TIER CONSULTING, INC) AT A RATE OF 2 LBS / 1,000 SF

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Sheet 34 of 44

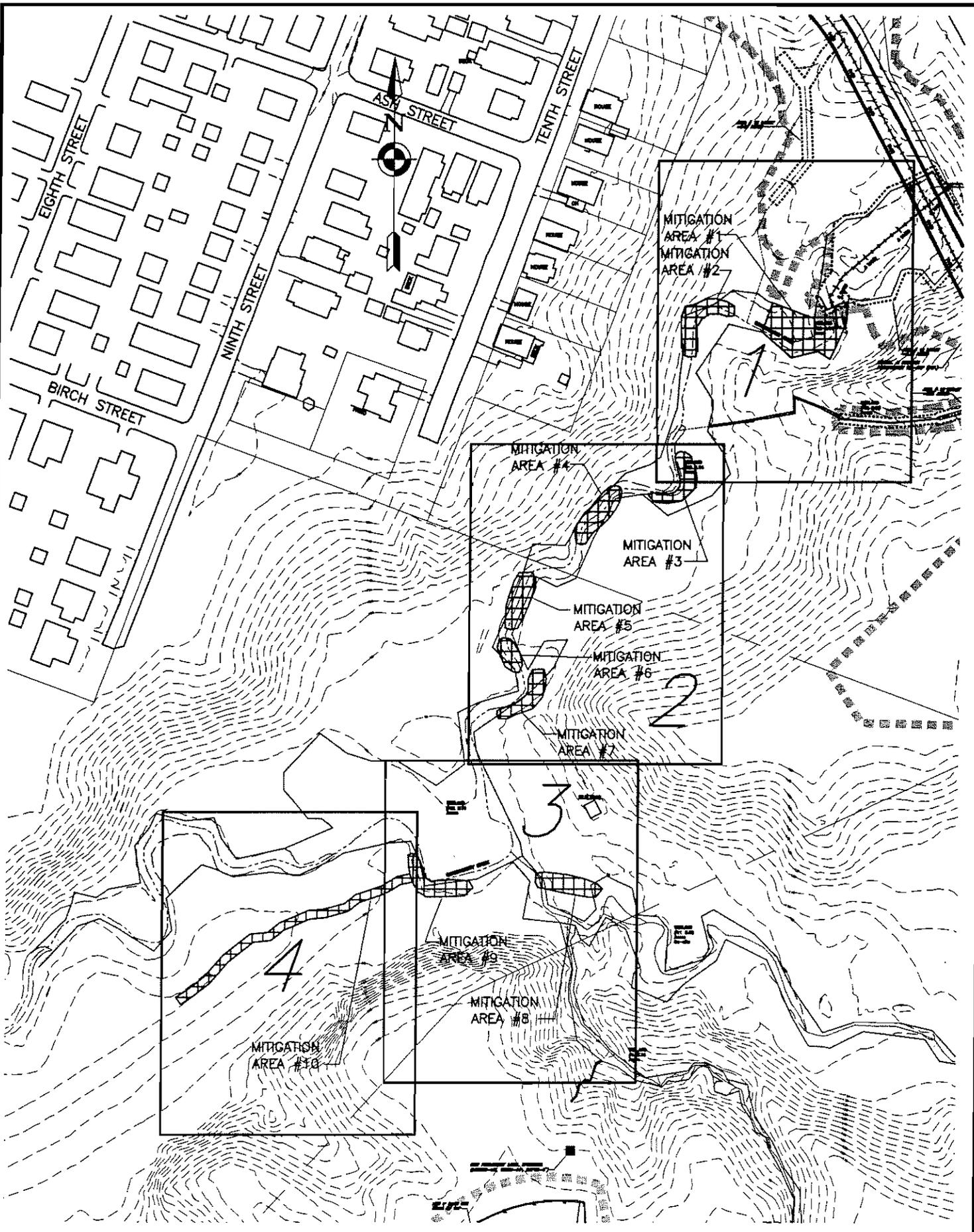


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SCHOOL SITE - PROPOSED WETLAND PLANTINGS  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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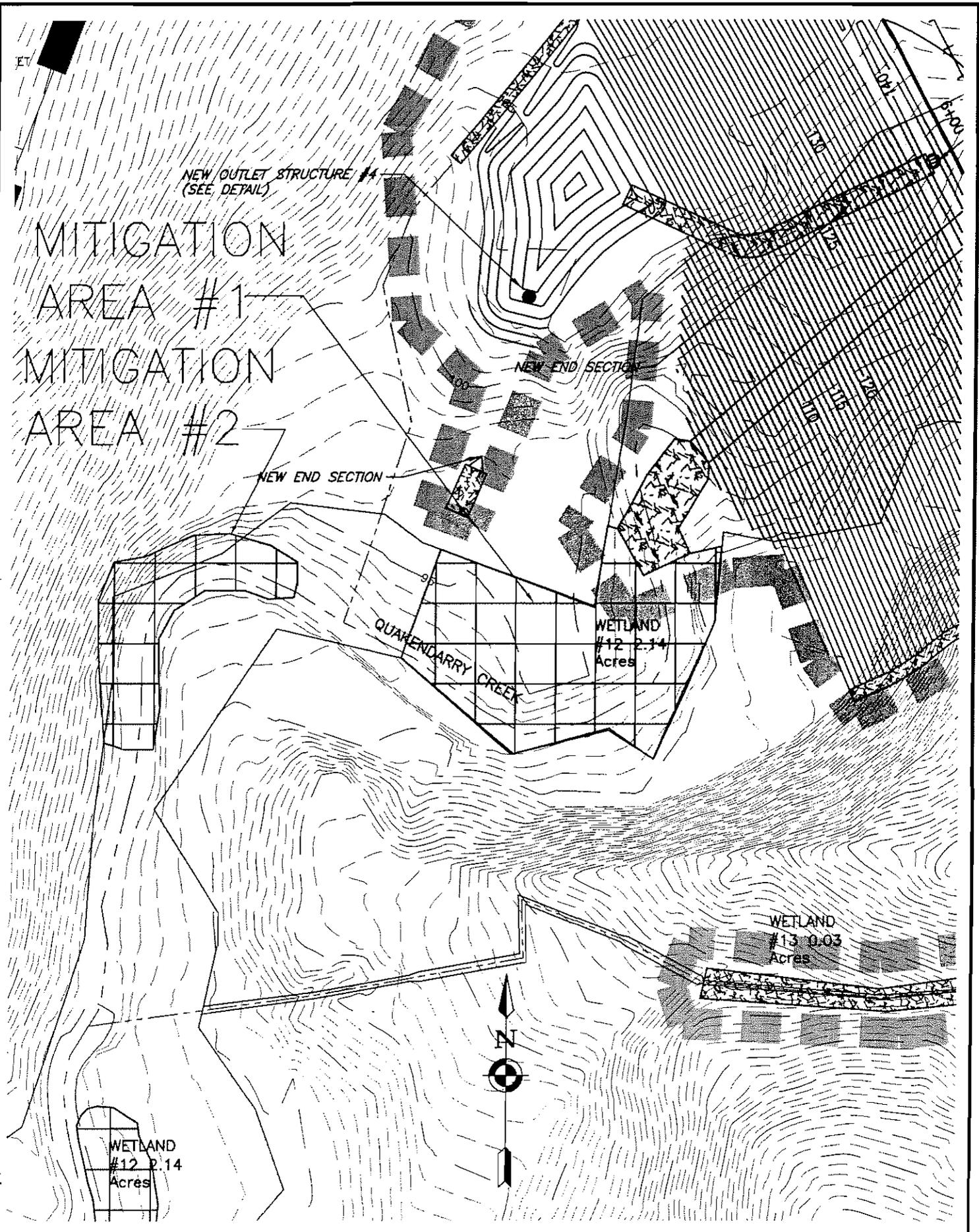


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 SCALE: 1"=150'  
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STREAM BED MITIGATION - KEY PLAN  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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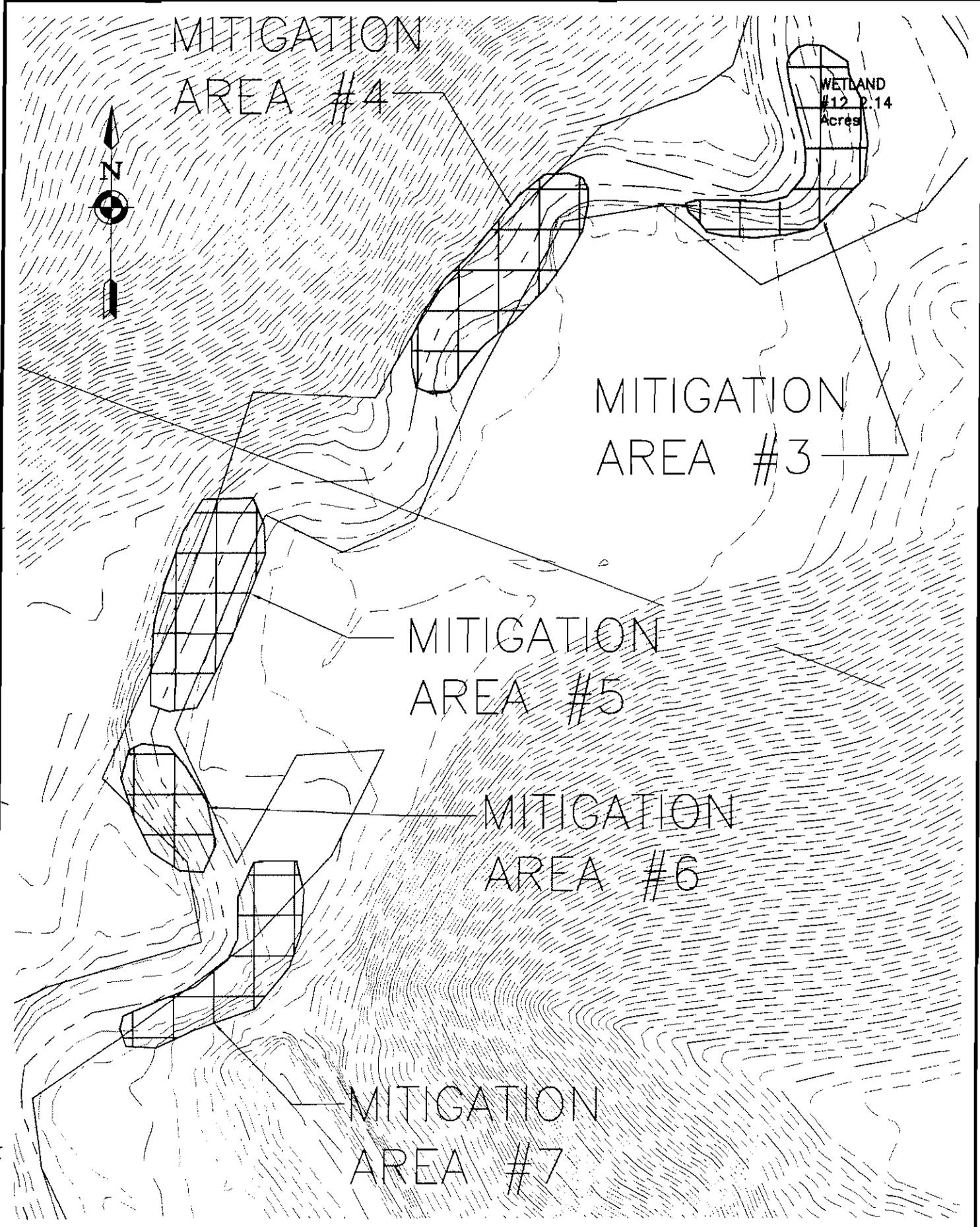


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SCALE: 1"=40'  
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STREAM BED MITIGATION - SHEET #1  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK

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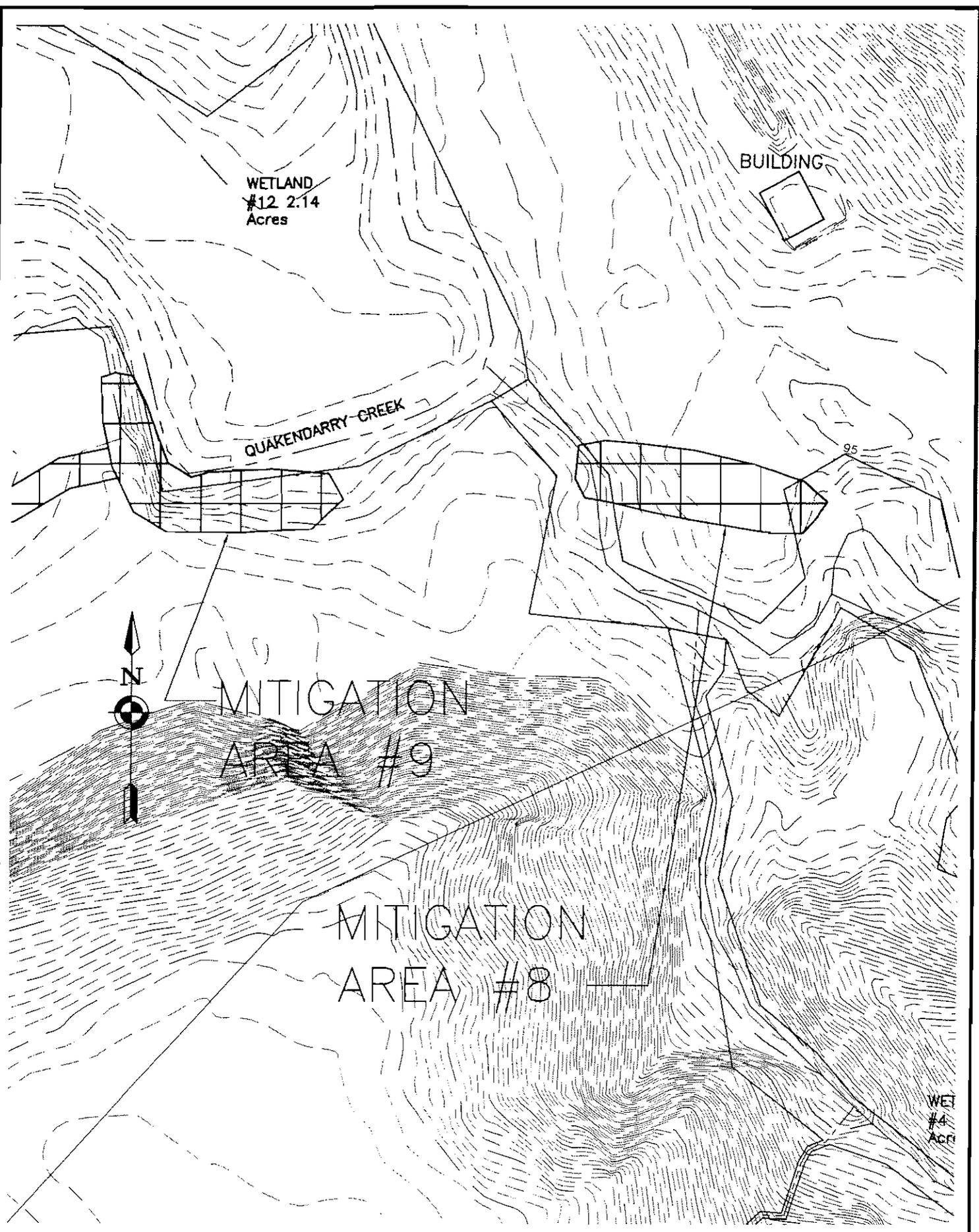


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 SCALE: 1"=40'  
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STREAM BED MITIGATION - SHEET #2  
 RENESSLAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENESSLAER, RENESSLAER COUNTY, NEW YORK

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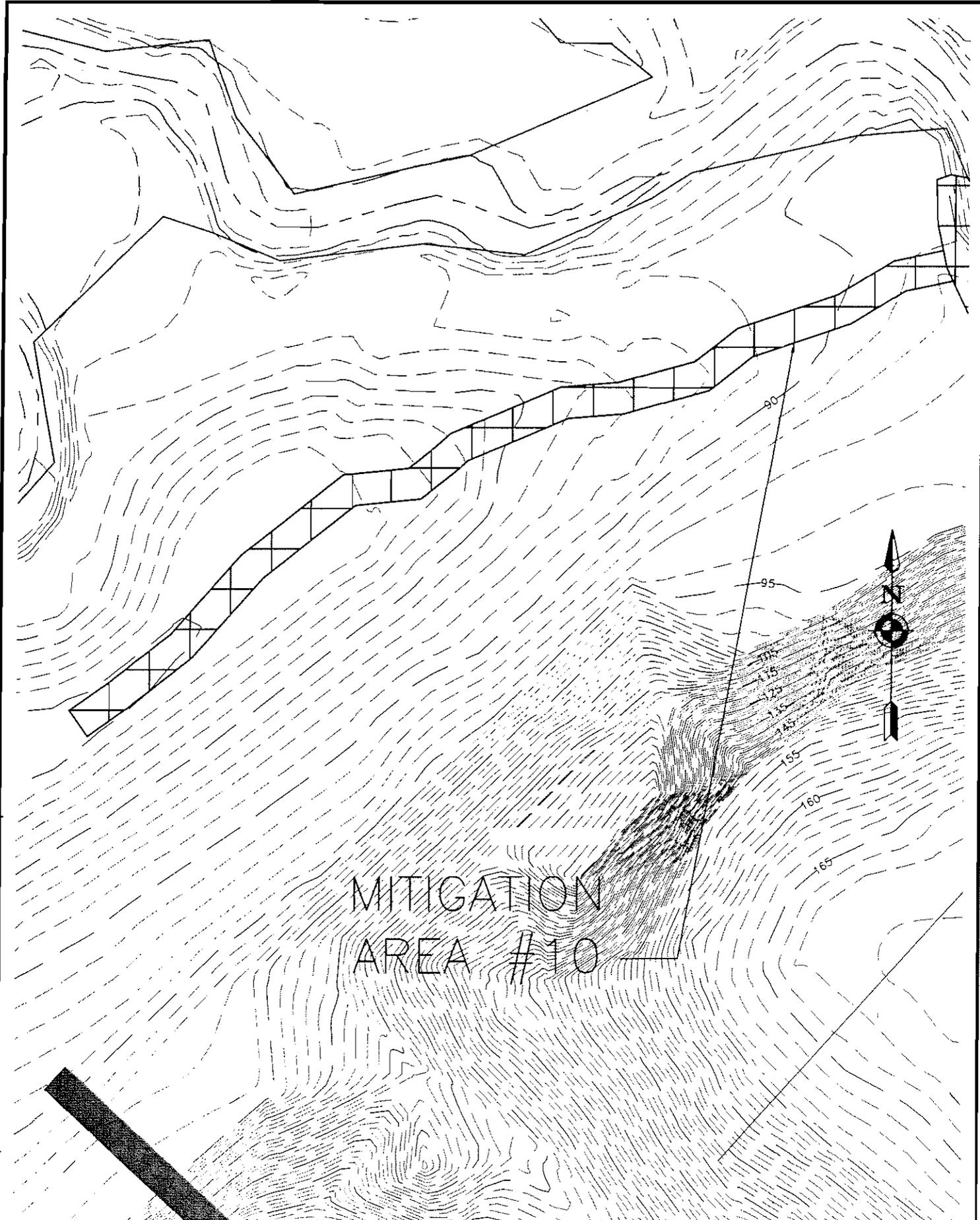


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STREAM BED MITIGATION - SHEET#3  
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 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

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STREAM BED MITIGATION - SHEET#4  
RENSELAER CITY SCHOOL DISTRICT  
2005 BOND ISSUE PROJECT  
NEW PRE-K-12 BUILDING AND ROAD  
CITY OF RENSELAER, RENSELAER COUNTY, NEW YORK

### STREAM MITIGATION TABLE

MITIGATION AREA #	APPROXIMATE STREAM LENGTH MITIGATED (FT)	MITIGATION TYPE
AREA #1	130	PLUNGE POOL & BANK STABILIZATION & RIFFLES
AREA #2	100	BANK STABILIZATION
AREA #3	90	BANK STABILIZATION
AREA #4	80	RIFFLES
AREA #5	70	RIFFLES
AREA #6	40	RIFFLES
AREA #7	70	BANK STABILIZATION
AREA #8	70	HIGH WATER OVERFLOW
AREA #9	90	BANK STABILIZATION
AREA #10	310	STREAM CREATION

TOTAL=1,050 FT

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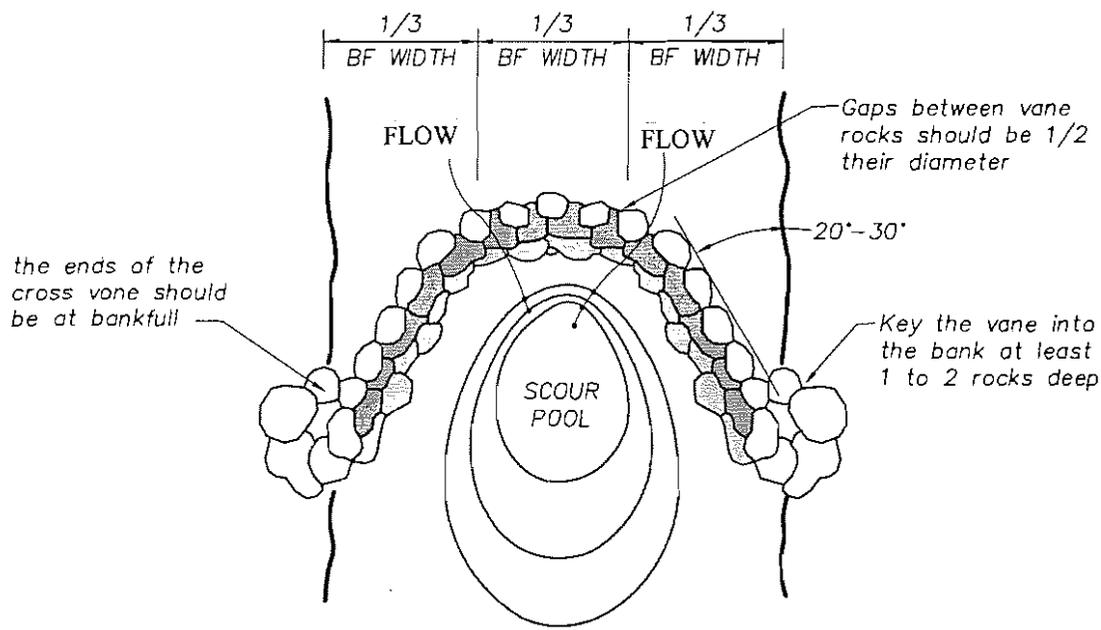


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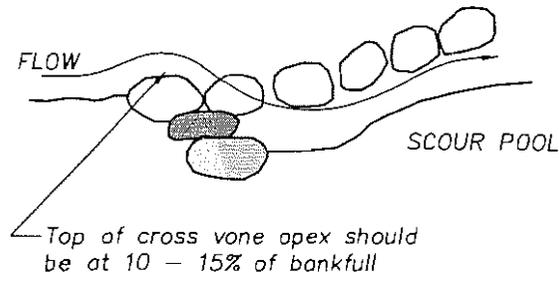
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 PROJ. #: 09898.00

STREAM BED MITIGATION TABLE  
 RENSSELAER CITY SCHOOL DISTRICT  
 2005 BOND ISSUE PROJECT  
 NEW PRE-K-12 BUILDING AND ROAD  
 CITY OF RENSSELAER, RENSSELAER COUNTY, NEW YORK

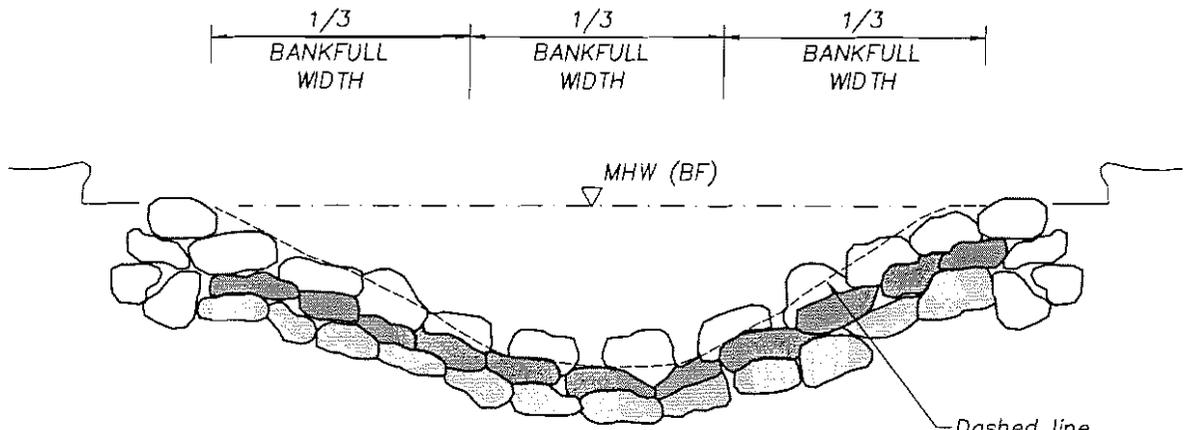
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**PLAN VIEW**



**PROFILE VIEW**

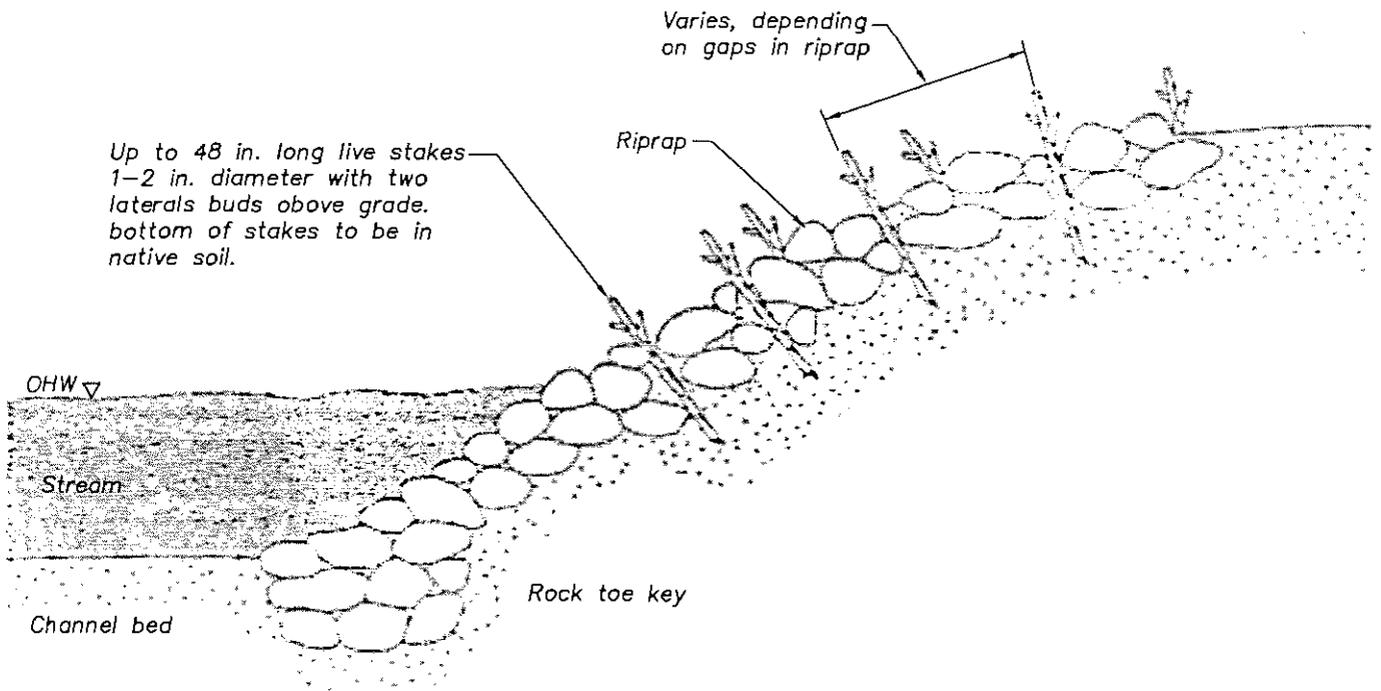


**CROSS-SECTION VIEW**

Base Map: Typical Rock Cross Vane

Scale: none

# Planted Rock

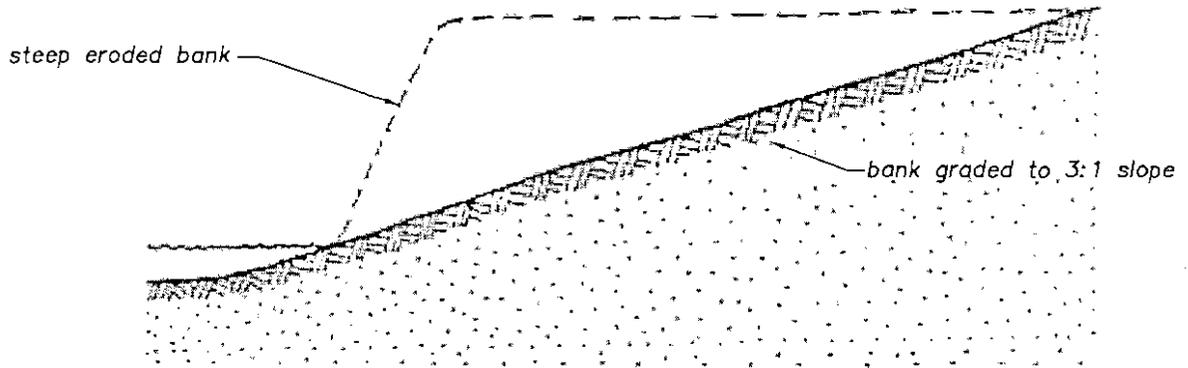


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Sheet 42 of 44

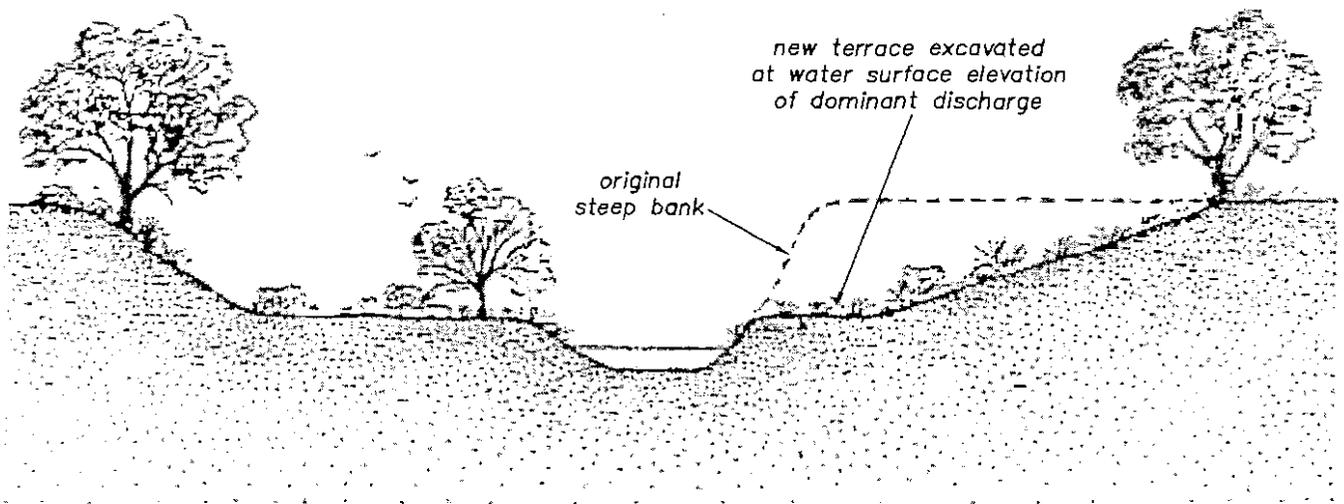
Base Map: Bank Armor: Planted Rock

Scale: none

## Stable Gradient



## Terraced Bank

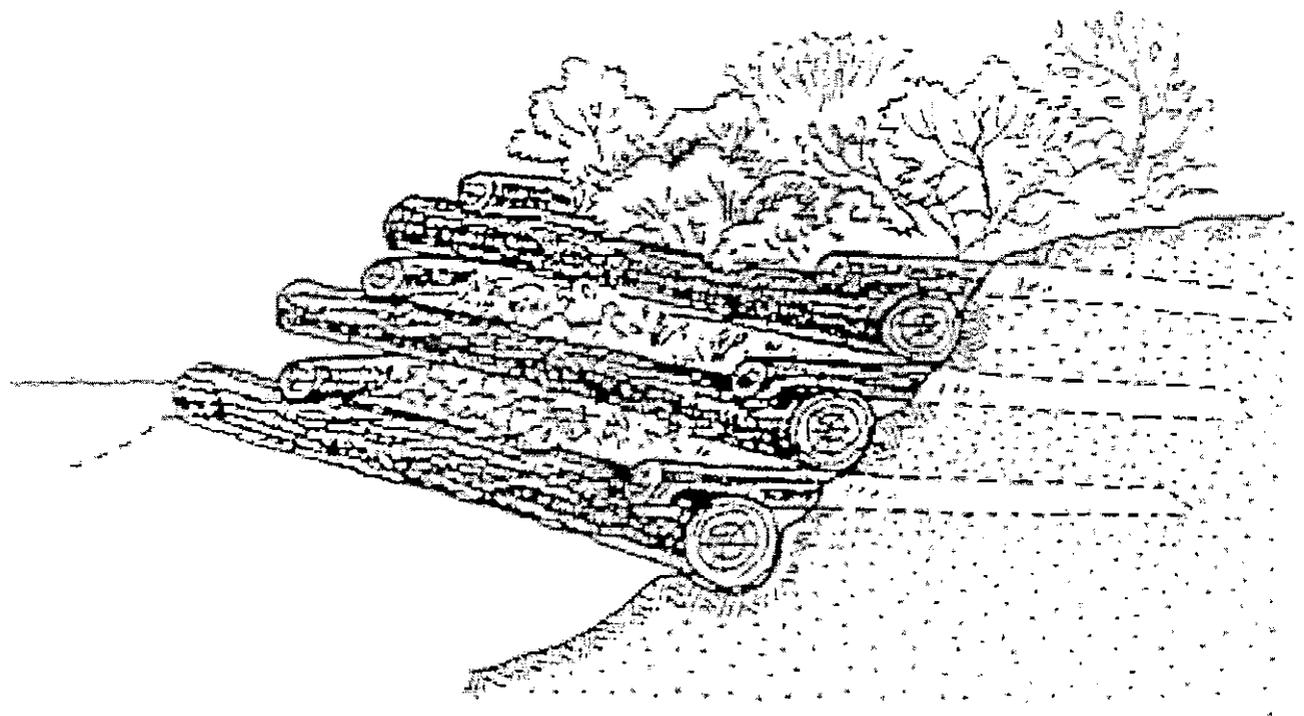


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Sheet 43 of 44

Base Map: Gading Techniques: stable Gradient & Terraced Bank

Scale: none

# Log Crib Wall



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Base Map: Bank Armor: Log Crib Wall

Scale: none

North Country Ecological Services, Inc.  
173 Willie Road  
Gloversville, New York 12078

Figure 9 - Stream Bank Stabilization