



U.S. Army Corps
of Engineers
Buffalo District
CELRB-TD-R

Public Notice

Applicant: **Wayne
County Department of
Public Works**

Published: **October 27, 2014**
Expires: **November 12, 2014**

Application No: **2014-00561**
Section: **NY**

All written comments should reference the above Application No. and be addressed to:
US Army Corps of Engineers, Buffalo District
(Attn:) Judy Robinson
7413 County House Road
Auburn, NY 13021

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

**Application for Permit under Authority of
Section 404 of the Clean Water Act (33 U.S.C. 1344).**

APPLICANT:

Wayne County
Department of Public Works
7227 Route 31
Lyons, New York 14489

WATERWAY & LOCATION: Unnamed tributary to the Erie Canal and associated wetland areas located along Arcadia-Zurich-Norris Road (AZN), Town of Arcadia, Wayne County, New York.

LATITUDE & LONGITUDE: Latitude North: 43.06588
Longitude West: -77.05516

EXISTING CONDITIONS:

Description of delineation of waters of the US: The delineation conducted in August, 2014 identified aquatic resources within the project area listed below (Sheet 21 of 21). A preliminary jurisdictional determination for the following aquatic resources identified within the project boundary was issued October 20, 2014.

Perennial Stream 1 (900 linear feet) flows through Wetland A on the west side of the road and Wetland B on the east side of the road. The stream originates from a spring in a farm field north of the project area on the west side of AZN Road. For much of its length, the stream flows through agriculture fields a safe distance away from the road. However, portions of the stream have been ditched and are culverted under several private driveways. On the west, the stream continues directly parallel to AZN Road for approximately 365 linear feet. Flow is culverted under the road and continues for approximately 467 linear feet on the east side of the road. Channel width at ordinary high water is approximately four (4) feet on both sides of the road. Stream flow discharges to a braided channel through a forested/scrub shrub wetland to the south. The channels eventually merge into one, which is culverted under Old Lyons Road and eventually outfalls to the Erie Canal.

Intermittent Stream 2 (80 linear feet). This stream is perpendicular to the road to the west and carries surface water flow from a drumlin. A pond was constructed within the stream on private property with a culvert installed as an overflow structure which outfalls to the downstream portion of the channel. This stream ends at its confluence with Stream 1 on the west side of AZN Road at the location of Culvert 2 that carries Stream 1 to the east side of AZN Road.

Wetland A (0.14 acre) is a combination of emergent (0.10 acre) and forested (0.04 acre) wetland along the west side of AZN Road. As noted above, Stream 1 flows through the eastern edge of the wetland adjacent to AZN Road.

Wetland B (0.28 acre) is a combination of emergent (0.10 acre) and forested (0.18 acre) wetland along the east side of AZN Road. As noted above, Stream 1 flows through the western edge of the wetland adjacent to AZN Road.

Background: The current pavement width is 22-feet with a substandard shoulder width that cannot accommodate a safe roadside "pull-off" area as the road is directly adjacent to the steep (1:1) slope of Stream 1 on the west side of AZN Road. AZN Road and adjacent properties experience substantial and prolonged flooded conditions after rain events and during spring snow-melt, resulting in unsafe driving conditions and road closure. Several causes for flooding have been identified including: A) Stream 1 has accumulated sediment material causing a negative fall (pitch) condition within the stream channel that impedes downstream flow; B) Three (3) culverts which are over three-fourths (3/4) filled with sediment exist within the Stream 1 channel, worsening the negative fall condition described above; C) The applicant indicated that 25-30 years ago, at the request of a property owner on the east side of AZN Road, the County Highway Department filled a portion of what was likely Wetland B that the landowner desired to maintain as lawn. The original channel for Stream 1 flowed across this property. This channel was approximately four-five (4-5) feet wide and continued out from the Culvert 2 outfall for approximately 75-feet onto the subject private property and then turned sharply south through an area that was likely a portion of Wetland B (Sheets 18 and 19 of 21). The property owner had placed a 20-linear foot, 18-inch driveway culvert in the original stream bed. In addition to the request to fill part of the lawn, the landowner requested that the Highway Department divert flow from Stream 1 to alleviate flooding on his property. In response, the Highway Department constructed the existing roadside ditch and redirected flow from Stream 1 to the existing roadside

channel which was constructed 21-feet off the AZN Road center line for ease of maintenance. Over time, the redirection of flow reduced the width of the original channel to one-two (1-2) feet. The original channel no longer receives direct flow from Culvert 2, but still functions to direct overland flow to the existing channel to the south. The existing roadside channel has proven ineffective in capturing the west to east over-road flow. Both the roadside and original channel over-flow during storm events, resulting in substantial, prolonged flooding of AZN road and the private lawn, and driveway.

Completed Work: As part of the overall project, the following work has already been completed: The asphalt road surface has been recycled and repaved. The plan calls for a five (5)-foot road shoulder having a six (6) percent slope. A two (2)-foot paved shoulder has been constructed and an additional three (3)-feet of gravel shoulder is proposed. The road repaving and shoulder construction work does not impact any waters of the United States.

An existing 30 linear foot, 36-inch concrete box culvert (Culvert 2 - Sheets 5 and 8 of 21) was replaced with a 50-linear foot, 36-inch high density poly-ethylene (HDPE) culvert under AZN Road. This culvert replacement was constructed under a Non Pre-Construction Notification Nationwide Permit (NWP) #3 to coincide with roadwork. Upon receiving additional information, it was determined that installation of Culvert 2 could not be designed to meet installation criteria contained in the NWP and would have required Pre-Construction Notification. Design calculations would have required a 48-inch pipe buried to a depth of one (1) foot. However, a smaller, 36-inch HDPE pipe was used because it had to be installed over an existing county watermain. The County Water Authority requested a minimum four (4)-inch separation using insulated foam or a one (1)-foot separation between pipelines without foam. The 36-inch HDPE pipe was installed using the (4)-inch foam separation to ensure proper pipe cover at the road. Note that had a PCN been submitted, a waiver would have been authorized due to this impediment in complying with the culvert condition contained in the NWP.

An existing 42-foot long, 12-inch cast-in-place (CIP) culvert (Culvert 4) under AZN Road was replaced with a 45 linear foot 12-inch HDPE culvert. Culvert 4 is not in a stream channel or ditch. It captures flow from the drumlin on the west side of the road which historically flooded over AZN Road to Wetland B on the east side of the road. Flow from the culvert outfall has formed a channel on the east side of the road. Once constructed, the proposed relocated stream will receive flow from the Culvert 4 outfall (Sheets 4 and 9 of 21).

PROPOSED WORK:

A combination of the road's proximity to Stream 1 and the stream's inadequate capacity to convey stormwater is caused by undersized culverts and the accumulation of sediment within the stream channel and culverts. Wayne County proposes filling and relocating approximately 832 linear feet of the existing ditched stream channel (Sheets 11 and 12 of 21). The channel would be relocated a total of 11-feet off the center line (from 21-feet to 32-feet). The current shoulder width is narrow and Wayne County will regrade the shoulder to provide a 3:1 traversable slope. The preferred slope suggested by the New York State Design Manual guidelines based on the current traffic counts of 900 vehicles per day is 4:1; however, there is not sufficient room to obtain the preferred slope. Work also includes replacing two (2) driveway culverts (Culverts 1 and 3 - Sheets 11 and 12 of 21) within the relocated stream channel, the addition of a sediment

basin associated with Culvert 2 (Sheets 12 and 19 of 21), and riprap scour protection at the outfall of Culvert 4 described in detail below (Sheets 11 and 18 of 21). Costs associated with this proposal are in the \$24,000 range.

Impacts - west side of AZN Road: Stream 1 is located entirely within Wetland A and is approximately four (4)-feet wide at ordinary high water (OHW) with a 1:1 bank slope. Proposed impacts include 365 linear feet (0.03 acre) of fill in the stream channel and 0.07 acre of fill in Wetland A. The filled channel and wetland area will be seeded with an upland seed mix and maintained as an upland area. Material excavated from the new stream channel will be used to fill the existing channel.

Proposed impacts associated with excavation of the new stream channel (west side): The proposed relocated channel will be 365 linear feet consisting of 180 linear feet (0.05 acre) excavated within Wetland A which will be the conversion of emergent wetland to open stream channel. Approximately 185 linear feet (0.05 acre) will be excavated in the upland area. The new channel will be approximately four (4)-feet wide at OHW with a bank to bank width of 12-feet having a 3:1 bank slope.

Impacts - east side of AZN Road: Stream 1 on the east side of the stream is located entirely within Wetland B and is approximately four (4) feet wide at OHW with a 1:1 bank slope. Proposed impacts include 467 linear feet (0.04 acre) of fill in the stream channel and 0.11 acre of fill in Wetland B. The filled channel will be seeded with an upland seed mix and maintained as an upland area. Material excavated from the new stream channel will be used to fill the existing channel.

Proposed impacts associated with excavation of the new stream channel (east side): The proposed relocated channel will be 467 linear feet consisting of 260 linear feet (0.08 acre) excavated within Wetland B which will be the conversion of emergent wetland to open stream channel. Approximately 207 linear feet (0.08 acre) will be excavated in the upland area. The new channel will be approximately four (4)-feet wide at OHW with a bank to bank width of 12-feet having a 3:1 bank slope.

Culvert 1: Replace an existing 20 linear foot, 18-inch corrugated metal pipe (CMP) culvert located under a private driveway on the west side of the road with a 20 linear foot, 30-inch HDPE culvert (Sheets 12 and 17 of 21). The new culvert will be aligned within the relocated stream channel and was designed to meet culvert construction guidelines.

Culvert 2: Construct a 25-foot x 15-foot (375 square feet) riprap sediment basin within the relocated Stream 1 channel at the culvert inlet; which is also the point at which Stream 2 enters the culvert. The purpose of the proposed basin is to collect sediment discharged from the Stream 2 pond and from surrounding agriculture fields (Sheets 12 and 15 of 21). The basin would be maintained periodically.

Culvert 3: Replace an existing 20 linear foot, 24-inch CMP culvert under a private driveway located on the east side of the road with a 36-inch HDPE culvert (Sheets 11 and 14 of 21), which will be aligned within the relocated stream channel. Sizing calculations for this culvert indicated

that a 60-inch culvert should be used. However, a 60-inch culvert is not proposed because the driveway grade falls away from AZN Road at a 6:1 slope. Therefore, the private driveway would have to be filled for a length of 60 feet and additional fill material would have to be added to the slopes. The property owner will not allow the County to conduct this work. Further, installing a 60-inch culvert without the associated work on the private driveway would result in a four (4)-inch above-grade 'hump' in the driveway approach from AZN Road. A 'squash' culvert was also considered with a calculated size measuring 66-inches x 51-inches with a ten (10)-inch embedment requirement. It was determined that there would insufficient room to achieve the required two (2)-feet of cover for this size pipe after considering pipe elevation and thickness and driveway elevation. The applicant states that flooding concerns on private property on the east side of the road is due to the lack of a channel with the capacity to carry flow from over-road flooding and is not caused by back-flooding of Culvert 3 (described in Existing Conditions above). During normal rain events, the existing 24-inch culvert handles flow; however, the pipe is being replaced by a 36-inch culvert to be consistent with the size of upstream Culvert 2. Therefore, although Culvert 3 was not designed to meet culvert construction guidelines; the applicant is confident that the 36-inch culvert will be of adequate size.

Culvert 4 Scour Protection: Approximately 4-feet x 4-feet (16 square feet) of riprap scour protection at the Culvert 4 outfall to the proposed relocated channel is proposed (Sheets 11 and 13 of 21).

PROJECT PURPOSE:

Basic: Transportation

Overall: Improve safety along AZN Road by modifying shoulder width and slope to meet New York State Design guidelines and to reduce flooding of AZN Road.

Water Dependency Determination (*describe only if project affecting Special Aquatic Site*):

The discharge of fill material into the stream for the purpose of addressing safe transportation along AZN Road is not a water dependent activity because it does not require access or siting within the special aquatic sites in question to fulfill its basic purpose. Therefore, practicable alternatives that do not involve special aquatic sites are presumed to be available, unless clearly demonstrated otherwise.

AVOIDANCE AND MINIMIZATION INFORMATION:

Alternative 1: No Build. Under this Alternative, no work would be conducted to address hazardous road conditions caused by flooding and steep roadway side slopes. This Alternative is not desirable because it does not meet the project purpose.

Alternative 2: No USACE Permit Action Required. Wayne County contends that if it had unlimited resources, equipment and time, one alternative to completely avoid aquatic resources would be to relocate approximately 2400 linear feet of the AZN Road east along the east side of the existing stream. This would entail substantial acquisition of private property, likely through the eminent domain process, and the subsequent removal of homes to construct the road. This alternative was deemed as impractical because it would not be supported by the residents along AZM Road, and would entail a rough cost estimate of over 1.2 million dollars.

Alternative 3: No USACE Permit Action Required. The Applicant considered raising the road as a type of bridge structure over the existing stream and associated wetlands. This option was also considered as impracticable because the road would be above the level of existing private driveways and ramps to the homes would have to be designed to make their homes accessible. This alternative would not be supported by the residents along AZM Road, and as in Alternative 2, the cost of such a project would likely exceed one (1) million dollars.

Alternative 4: Pipe over 800 linear feet of stream channel in place and extend the road shoulder over the piped stream. This Alternative was not considered as the least environmentally damaging practicable alternative as it would eliminate over 800 linear feet of open stream channel. Piping the channel would have a negative impact on the water quality of downstream waters because the vegetated channel slows flow velocity and facilitates filtration of sediment and pollutants contained in road run-off such as salt, sand, and petroleum products, as well as fertilizer, herbicides, etc. from surrounding agriculture fields. Costs associated with this option are in the range of \$50,000 including the culvert replacement. This design would require approximately 0.07 acres of permanent wetland fill. In addition, piping the stream would alter flow hydraulics by increasing the discharge volume from approximately 2.4 feet/second (during normal rain events) to approximately 20-22 feet per second. Subsequently, downstream the water velocity entering the culvert pipe under Old Lyons Road south east of the project would also increase.

PROPOSED MITIGATION:

The Preferred Alternative is to relocate and enhance 832 linear feet of stream channel that will replace the existing stream channel proposed for filling. The existing stream channel has been ditched and cleaned periodically throughout the years resulting in a stream bank with a 1:1 slope dangerously close to the road surface. The proposed stream channel slope will be 3:1 which will provide more opportunity for the stream to re-establish floodplain connection on the west side of the road.

Permanent fill of 0.18 acre of emergent wetlands between the road shoulder and the relocated stream channel shall consist of 0.07 acre in emergent Wetland A (west side) and 0.11 acre in emergent Wetland B (east side). Compensatory mitigation for the loss of 0.18 acre of wetlands is proposed by seeding the new channel and banks with a wetland seed mix to ensure re-establishment of emergent wetland vegetation. In addition, it is anticipated that the natural re-establishment of hydric vegetation will occur because the new channel will be excavated within an existing wetland.

Approximately 0.13 acre of wetland impacts associated with construction of the new channel will occur. These impacts consist of 0.09 acre of temporary impacts associated with excavation and 0.04 acre of permanent conversion of emergent wetlands to an open water channel. Forested wetland areas identified in the delineation will not be impacted.

Based on the above mitigative measures, anticipated improved water quality to downstream waters, and anticipated replacement of functions and services provided by the stream and associated wetlands, the applicant has not proposed additional mitigation.

Location and details of the above described work are shown on the attached maps and drawings. Comments or questions pertaining to the work described in this Public Notice (Notice) should reference Application Number 2014-00561 and be directed to the attention of Judy Robinson, who can be contacted at the above address, by e-mail at: judy.a.robinson@usace.army.mil, or by calling 315-704-0255. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

The following authorization is required for this project:

Water Quality Certification (or waiver thereof) from the New York State Department of Environmental Conservation.

The project permit area, as shown on Sheet 1 of 1, is located within an archaeologically sensitive area identified by the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP). All currently available historic resource information pertaining to this proposed project has been provided to the NYSOPRHP. In their letter dated August 7, 2014, the NYSOPRHP (File No. 14PRO3098) stated their opinion that the proposed project would have No Effect upon cultural resources in or eligible for inclusion in the National Registers of Historic Places. Any additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this Notice. The Corps will forward any additional information to the NYSOPRHP for their review.

Pursuant to Section 7 of the Endangered Species Act (16 USC 1531), the Corps is consulting, under separate cover, with the USFWS to evaluate any potential impacts to the bog turtle (*Clemmys muhlenbergii*), Indiana bat (*Myotis sodalis*), and northern long-eared bat (*Myotis septentrionalis*) to ensure that the proposed activity is not likely to jeopardize the continued existence of these species or result in the destruction or adverse modification of critical habitat.

This Notice is promulgated in accordance with Title 33, Code of Federal Regulations, Parts 320 330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this Notice.

Comments submitted in response to this Notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a

source of information for the general public, or a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

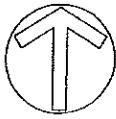
The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits 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 these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain 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 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 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 the 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.

SIGNED

Diane C. Kozlowski
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this Notice be posted continuously and conspicuously for **15** days from the date of issuance.



PROJECT LOCATION
 ARCADIA-ZURICH-NORRIS
 ROAD (C.R.236)
 TOWN OF ARCADIA
 JULY 9, 2014



Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

Sheet 1 of 21



REVISIONS			
DATE	DESCRIPTIONS	INITIALS	
ARCADIA-ZURICH-NORRIS ROAD LOCATION PLAN			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG No.	SCALE	DATE	PROJECT No.
LOCATION	N.T.S.	7-9-14	

WAYNE COUNTY HIGHWAY DEPARTMENT

CR 236 ARCADIA-ZURICH-NORRIS ROAD

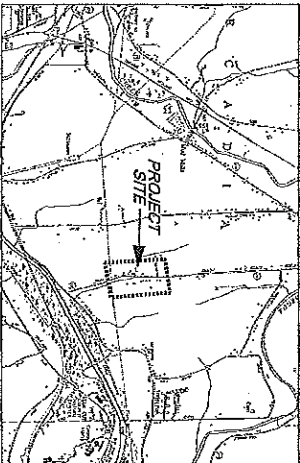
DRAWINGS FOR THE RELOCATION OF
A BLUE LINE STREAM NEAR

TOWN OF ARCADIA
WAYNE COUNTY NEW YORK

OCTOBER 8, 2014



SHEET No.	SHEET TITLE	DWG. No.
1	EXISTING CONDITIONS	P1-EX1
2	EXISTING CONDITIONS	P1-EX2
3	IMPACT PLAN	P1-IMP1
4	IMPACT PLAN	P1-IMP2
5	IMPACT CROSS SECTIONS	CS-IMP2
6	IMPACT CROSS SECTIONS	CS-IMP3
7	IMPACT CROSS SECTIONS	CS-IMP4
8	IMPACT CROSS SECTIONS	CS-IMP4
9	IMPACT CROSS SECTIONS	CS-IMP5



Wayne County DPW (Permit)
Arcadia-Zurich-Norris Road
D/A Processing No. 2014-00561
Wayne County, NY
Quad: Newark, NY



ARCADIA-ZURICH-NORRIS ROAD

EXISTING CONDITIONS

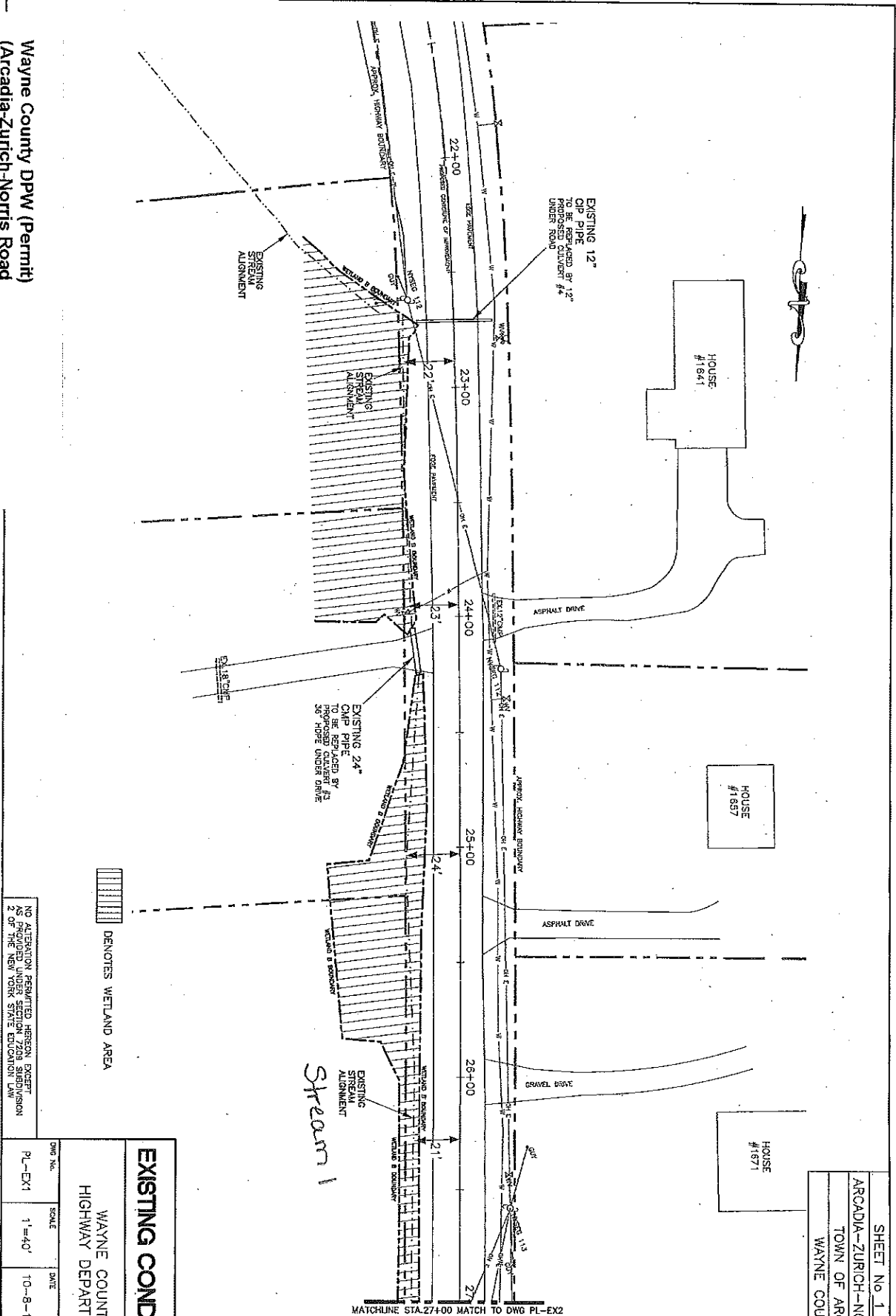
Wayne County DPW (Permit)
(Arcadia-Zurich-Norris Road)
D/A Processing No. 2014-00561
Wayne County, NY
Quad: Newark, NY

Sheet 3 of 21





SHEET No. 1 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



NO ALTERATION PERMITTED HEREON, EXCEPT AS PROVIDED UNDER SECTION 209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

EXISTING CONDITIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. No.	SCALE	DATE	PROJECT No.
PL-EX1	1"=40'	10-8-14	

DENOTES WETLAND AREA

Stream 1

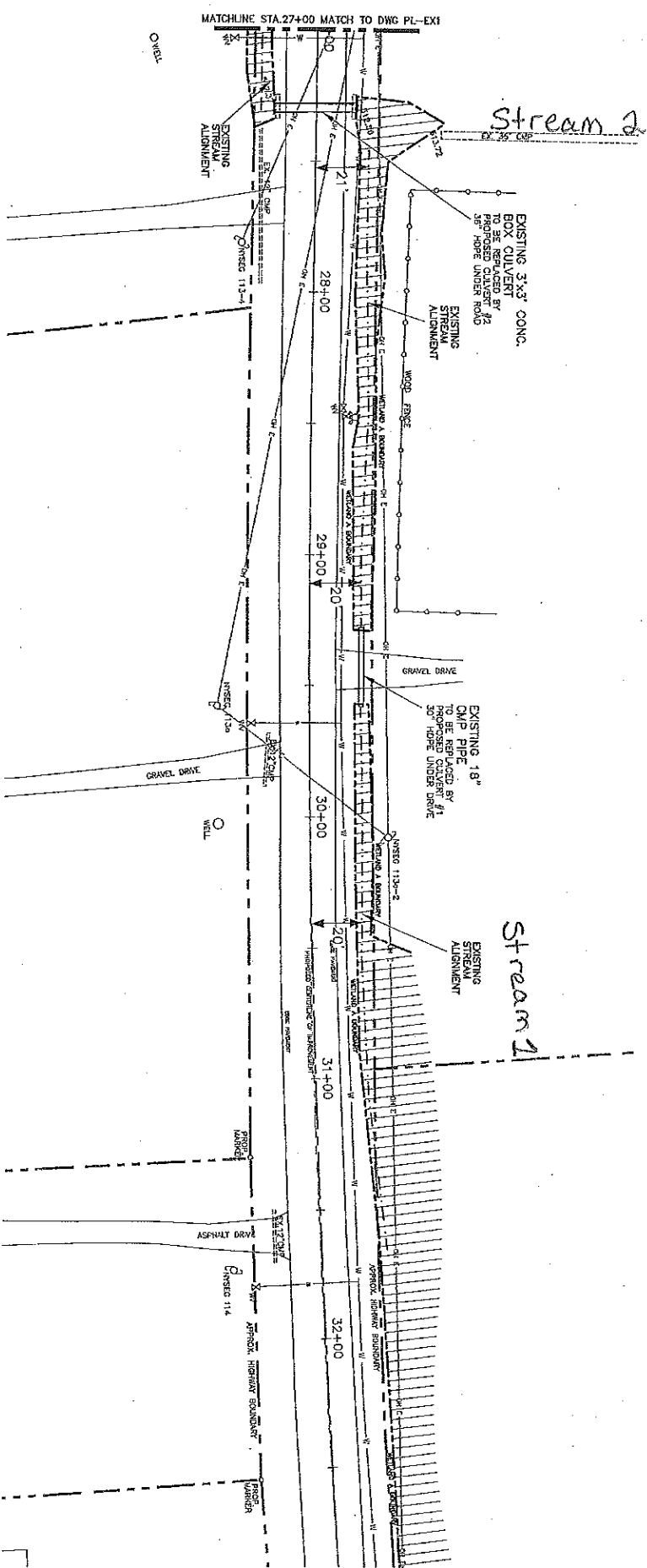
MATCHLINE STA. 27+00 MATCH TO DWG PL-EX2

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

Sheet 4 of 21



SHEET No. 2 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



DENOTES WETLAND AREA

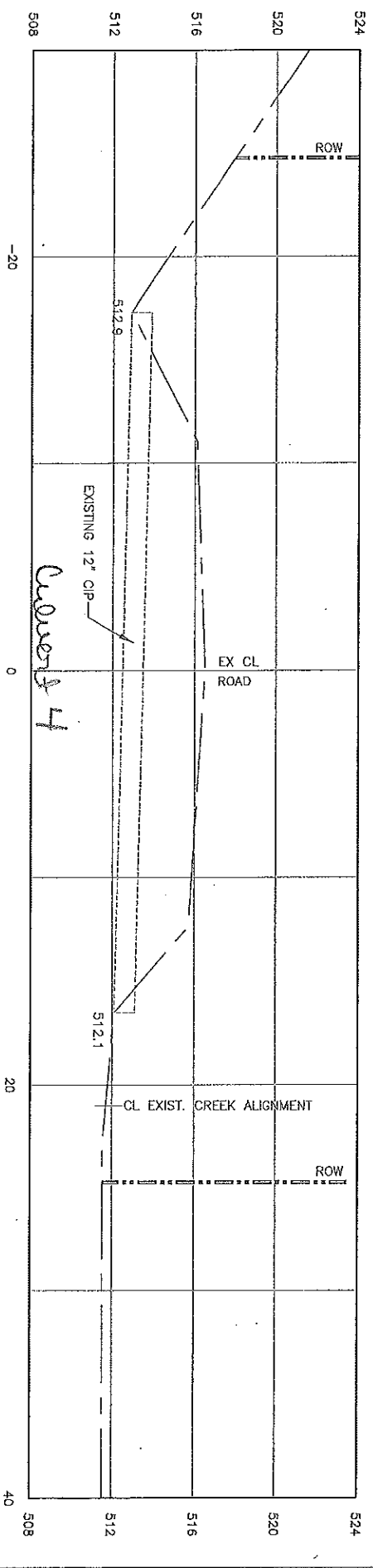
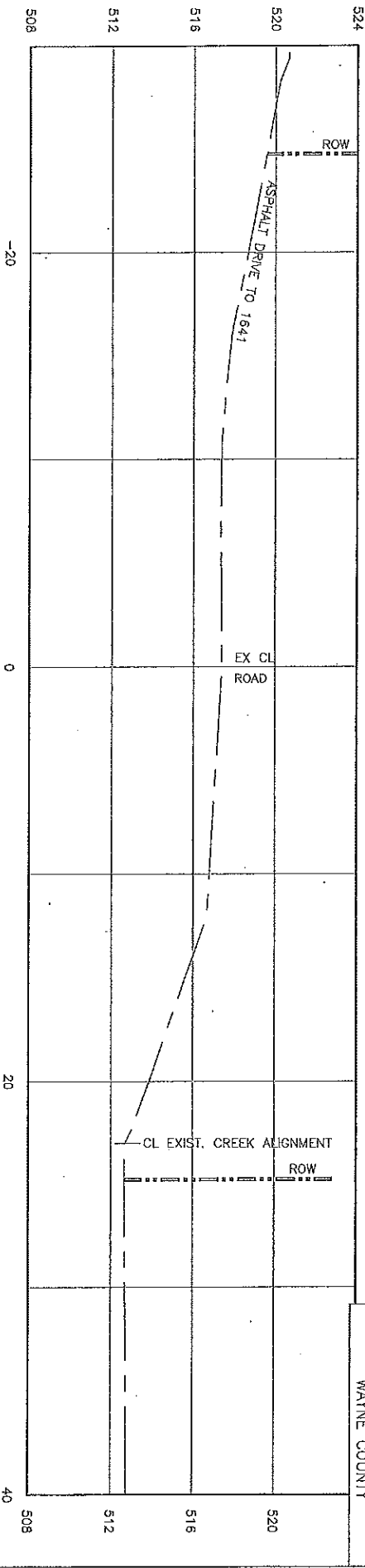
NO ALTERATION PERMITTED HEREON EXCEPT AS SHOWN
 2 OF THE NEW YORK STATE EDUCATION LAW

EXISTING CONDITIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. NO.	SCALE	DATE	PROJECT NO.
PL-EX2	1"=40'	10-8-14	

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY



SHEET No. 3 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



**EXISTING CONDITIONS
 CROSS SECTIONS**

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

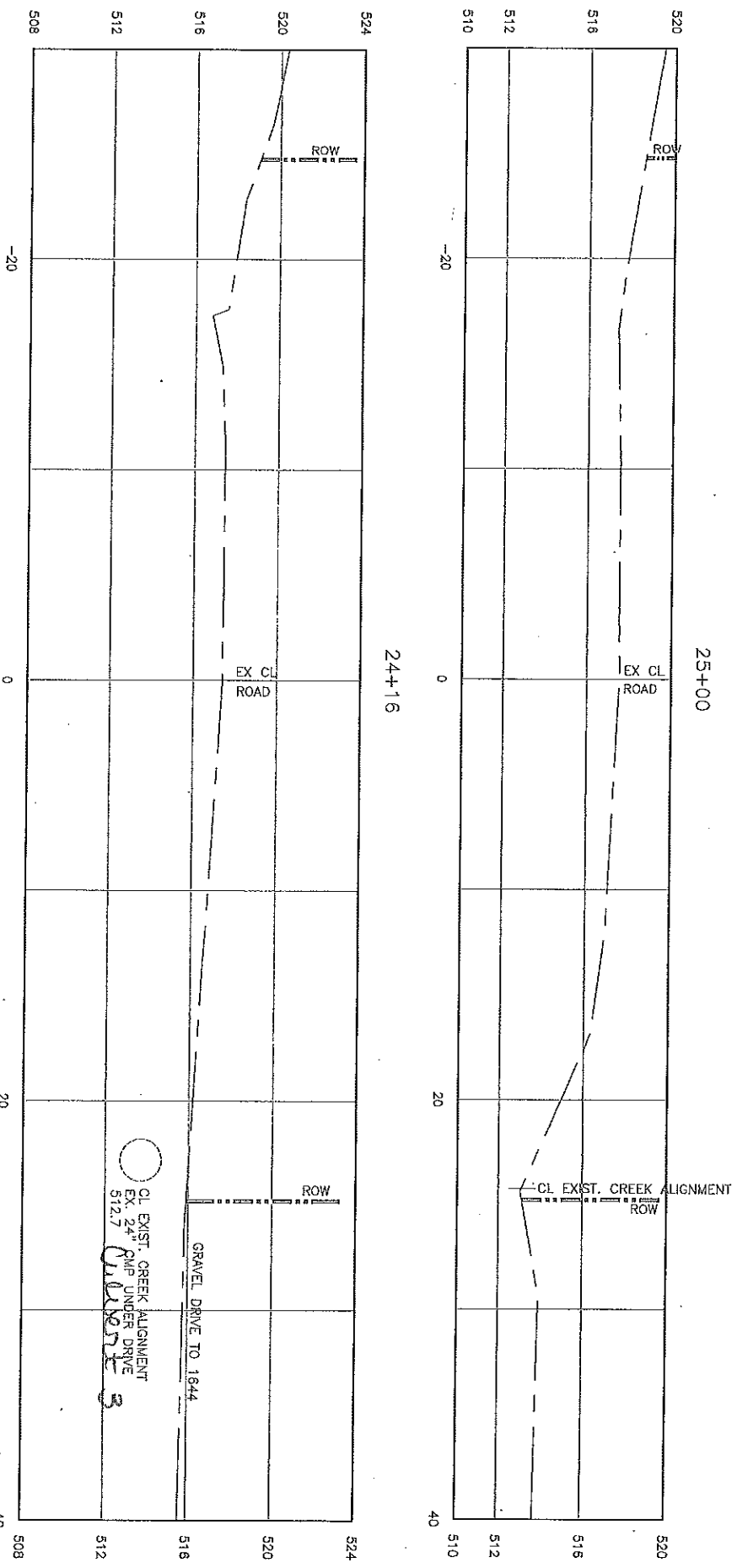
Sheet 6 of 21



NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTIONS 2 OF THE NEW YORK STATE EDUCATION LAW

DATE	SCALE	DATE	PROJECT NO.
CS-EX1	1"=5'	8-25-14	
WAYNE COUNTY HIGHWAY DEPARTMENT			

SHEET No. 4 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



**EXISTING CONDITIONS
 CROSS SECTIONS**

WAYNE COUNTY
 HIGHWAY DEPARTMENT

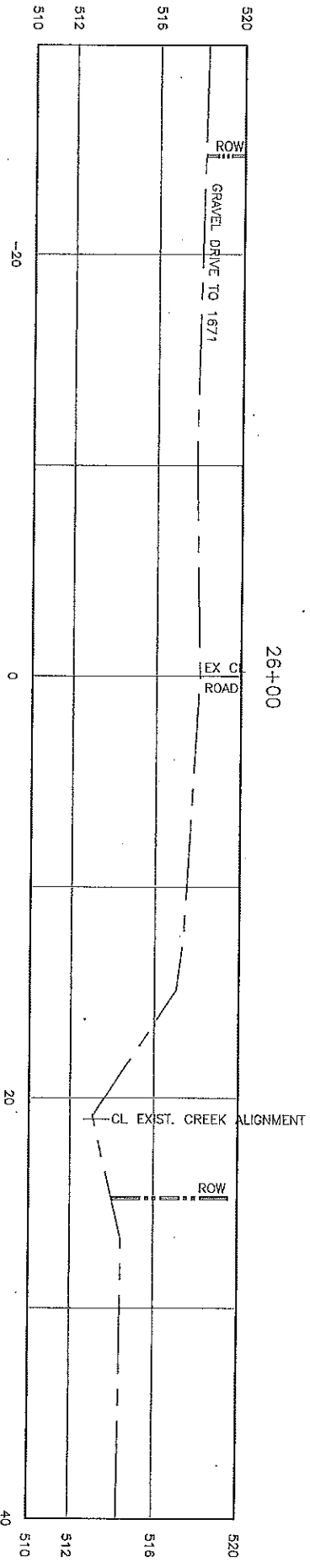
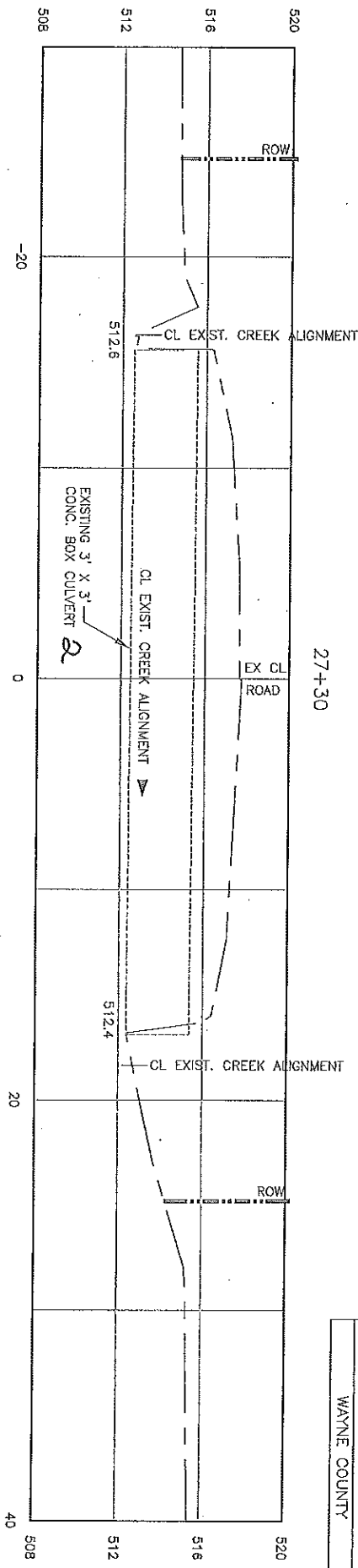
DWG No.	SCALE	DATE	PROJECT No.
09-EV2	1"=5'	8-25-14	

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Wayne County DPW (Permit)
 Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

Auburn Field Office
 Received
 SEP 05 2014
 USACE

SHEET No. 5 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



**EXISTING CONDITIONS
 CROSS SECTIONS**

WAYNE COUNTY
 HIGHWAY DEPARTMENT

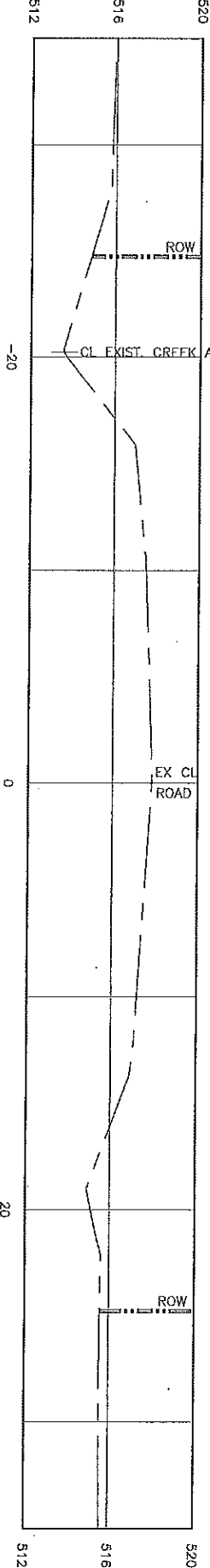
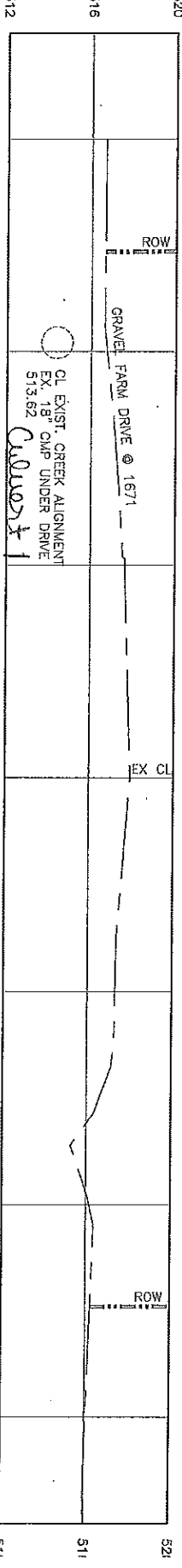
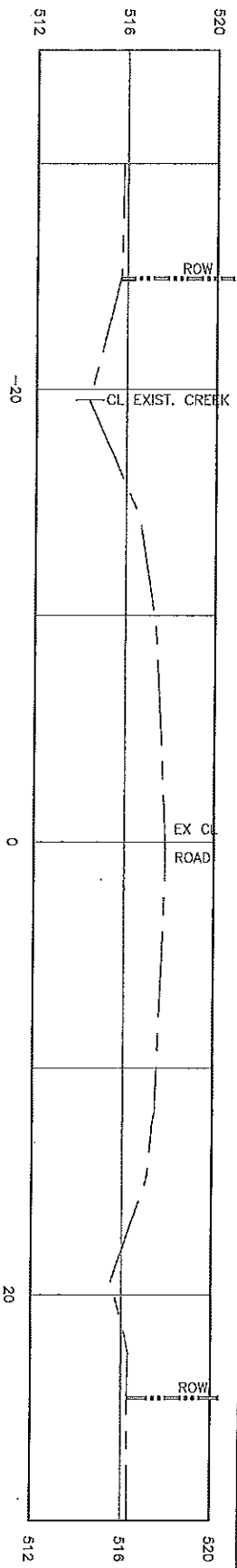
DWG No.	SCALE	DATE	PROJECT No.
CS-EX3	1"=5'	8-25-14	

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7208 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Wayne County DPW (Permit)
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 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY



SHEET No. 6 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



**EXISTING CONDITIONS
 CROSS SECTIONS**

WAYNE COUNTY
 HIGHWAY DEPARTMENT

DATE	SCALE	DATE	PROJECT No.
CS-EX4	1"=6'	8-25-14	

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Auburn Field Office
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 USAACE

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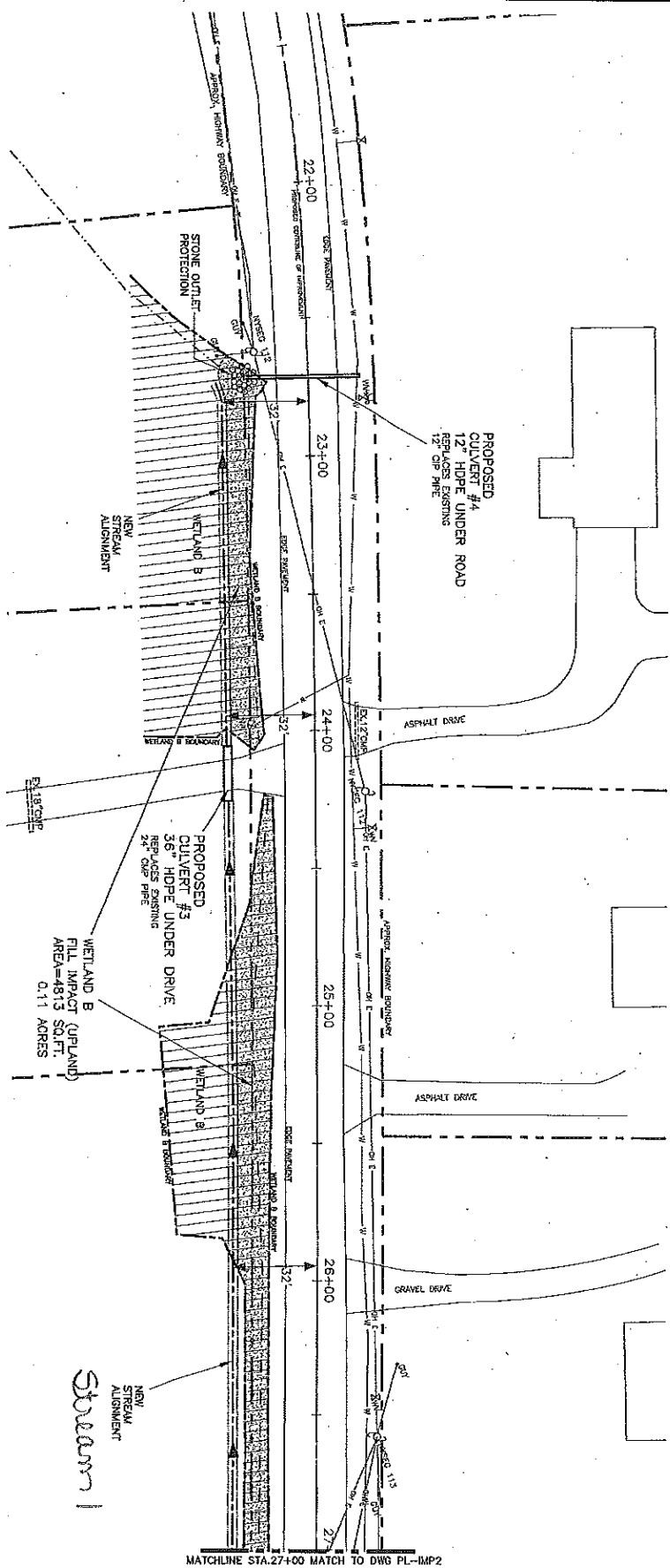
**ARCADIA-ZURICH-NORRIS ROAD
STREAM RELOCATION PROJECT
PROPOSED IMPACTS**

Wayne County DPW (Permit)
(Arcadia-Zurich-Norris Road)
D/A Processing No. 2014-00561
Wayne County, NY
Quad: Newark, NY

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SHEET No. 3 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



DENOTES WETLAND AREA

DENOTES FILL IMPACT AREA

US ATTENTION REQUIRED! PERSONS EXERCISING AS PROVIDED UNDER STATE EDUCATION LAW 2 OF THE NEW YORK STATE EDUCATION LAW

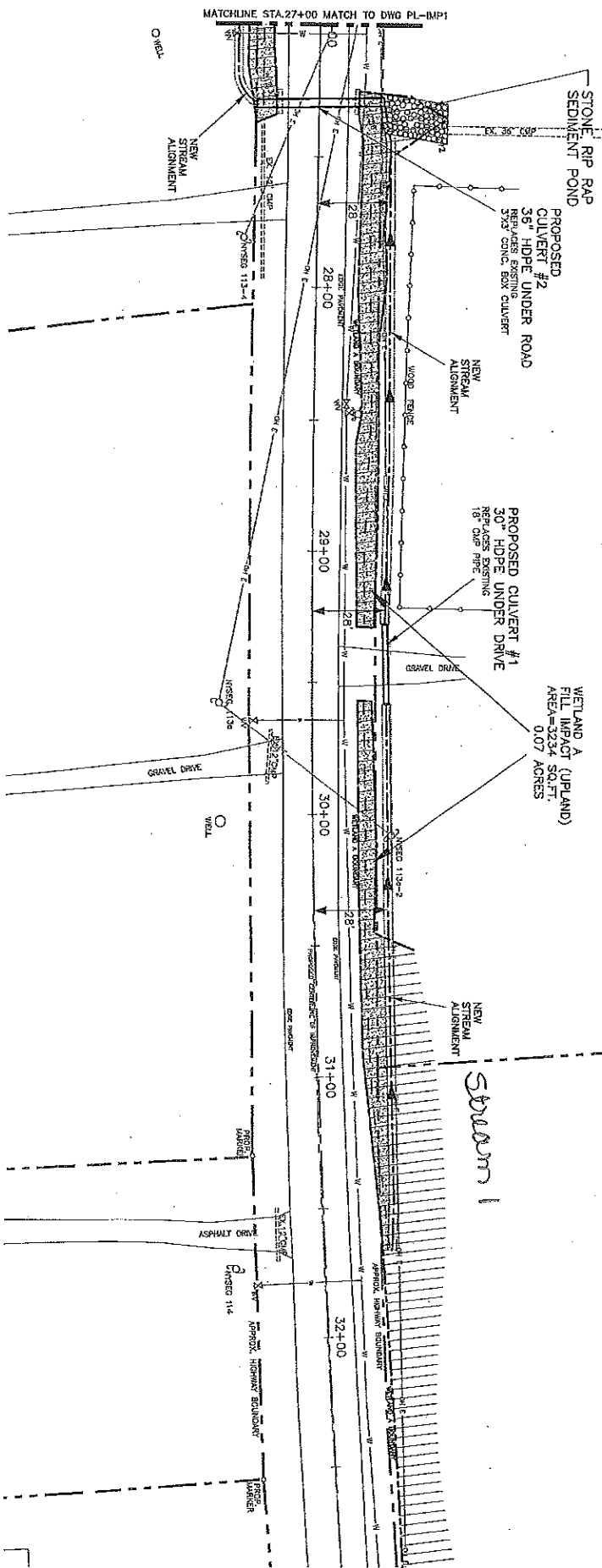
IMPACT PLAN			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. No.	SCALE	DATE	PROJECT No.
PL-IMP1	1"=40'	10-8-14	

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

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Stream 2



Stream 1

SHEET No. 4 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY

IMPACT PLAN			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. No.	SCALE	DATE	PROJECT No.
PL-IMP2	1"=40'	10-8--14	

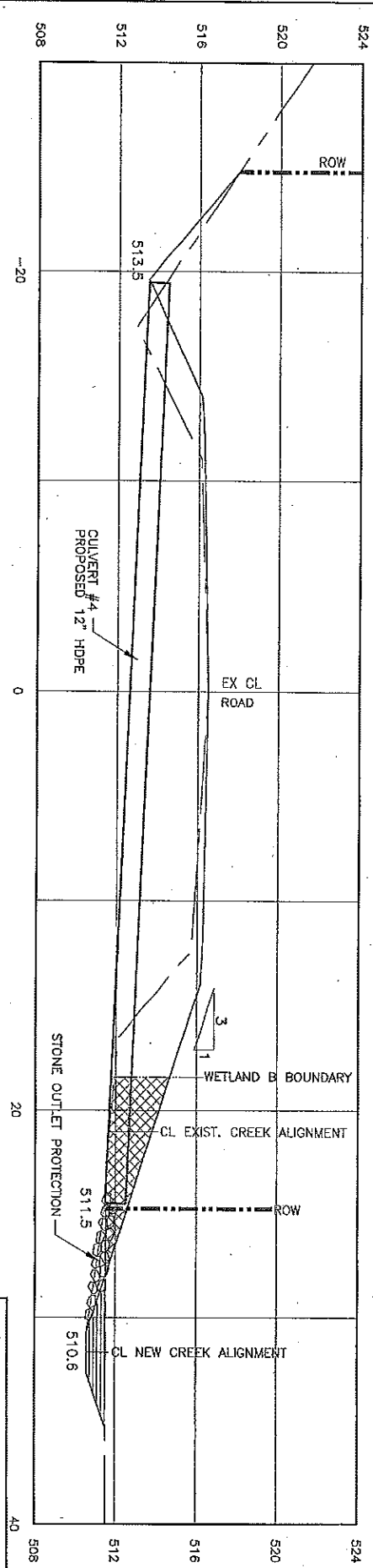
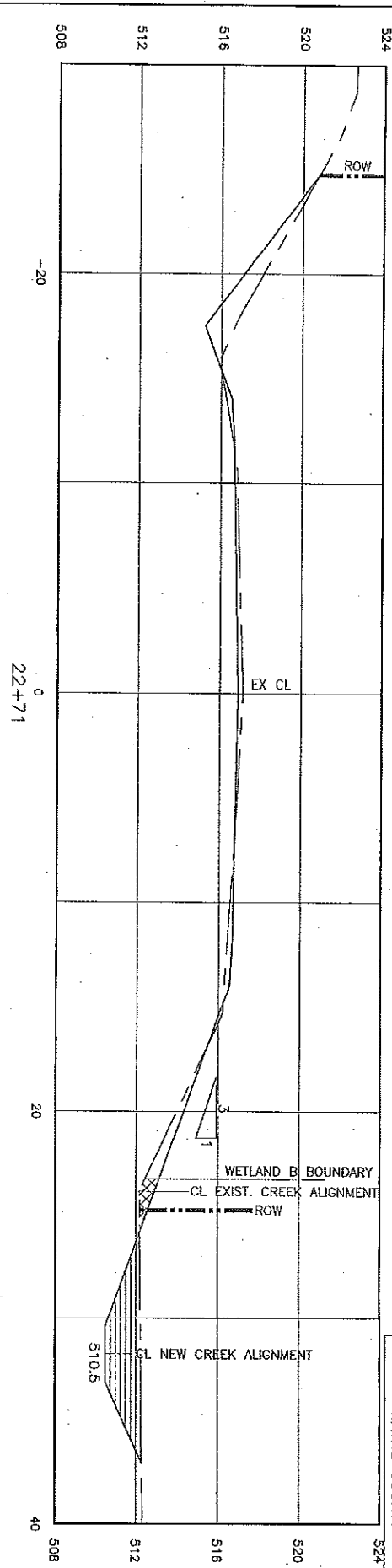
NO ALTERATION PERMITTED HEREON EXCEPT AS AUTHORIZED BY A SUPPLEMENTAL SHEET 2 OF THE NEW YORK STATE EDUCATION LAW



DENOTES WETLAND AREA
 DENOTES FILL IMPACT AREA

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY



SHEET No 5 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



 DENOTES FILL IMPACT AREA
 DENOTES EXCAVATION AREA

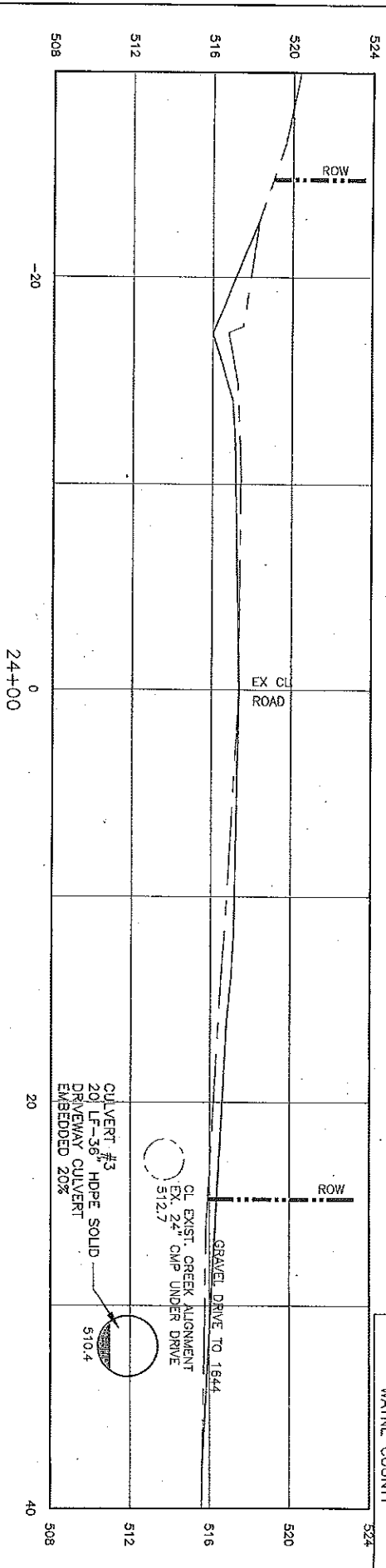
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 2 OF THE NEW YORK STATE EDITION 1/04

IMPACT CROSS SECTIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG NO.	SCALE	DATE	PROJECT NO.
CS-IMP1	1"=5'	10-8-14	

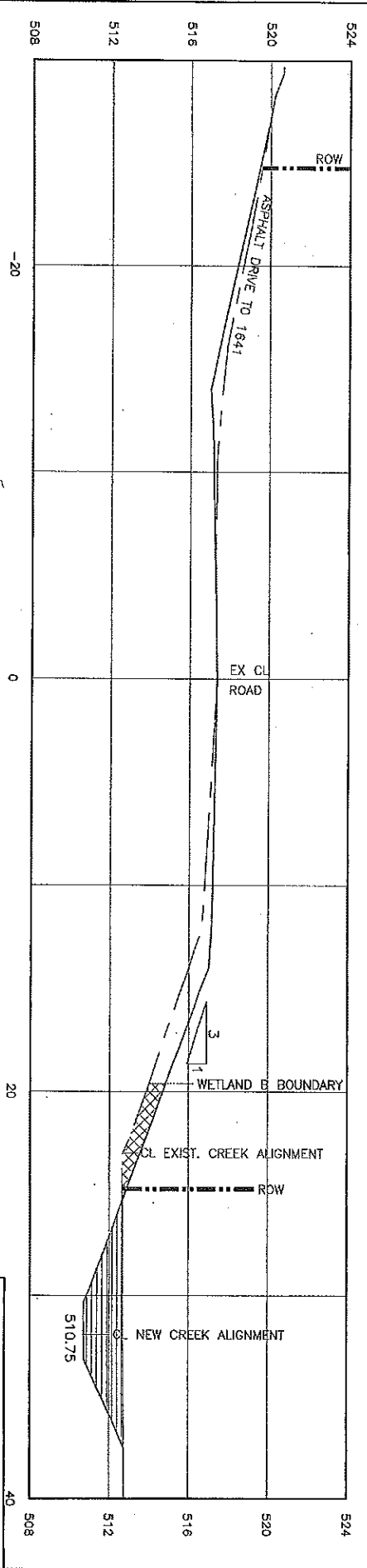
Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road)
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY





24+16



SHEET No. 6 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



 DENOTES FILL IMPACT AREA
 DENOTES EXCAVATION AREA

NO ALTERATION PERMITTED HEREON. EXCEPT AS SHOWN ON THIS DRAWING. SECTION 2 OF THE NEW YORK STATE EDUCATION LAW.

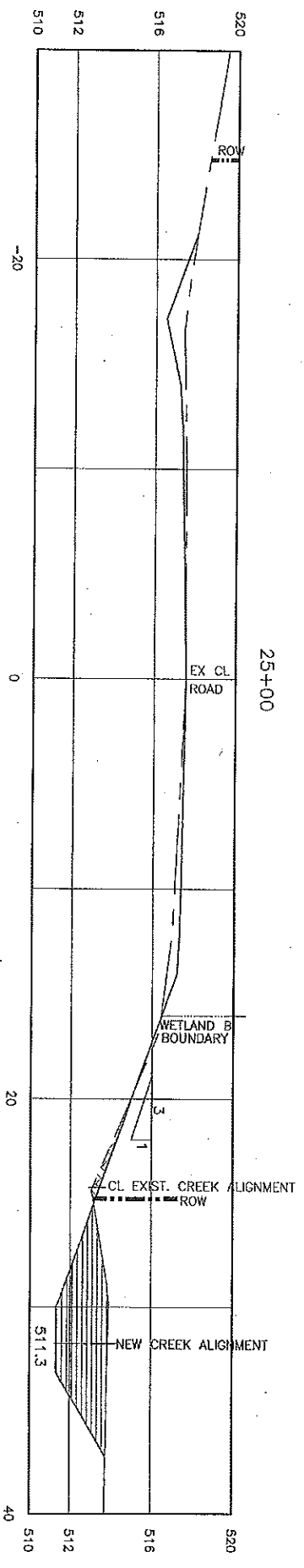
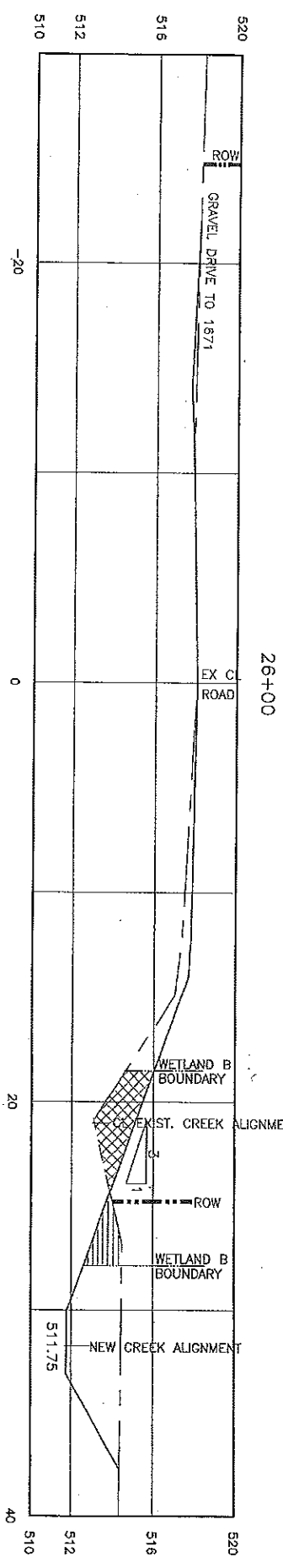
IMPACT CROSS SECTIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. NO.	SCALE	DATE	PROJECT NO.
CS-14P2	1"=5'	10-8-14	



Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road)
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 Quad: Newark, NY

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SHEET No 7 of 9
 ARCADIA—ZURICH—NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



 DENOTES FILL IMPACT AREA
 DENOTES EXCAVATION AREA

NO ALTERATION PERMITTED HEREON EXCEPT AS SHOWN ON THE ORIGINAL PLAN.
 2 OF THE NEW YORK STATE EDUCATION LAW

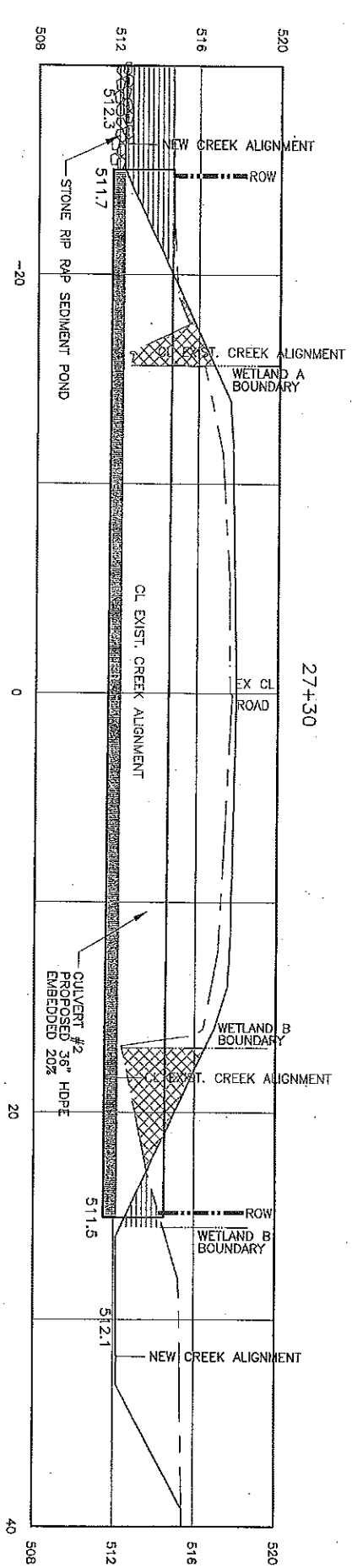
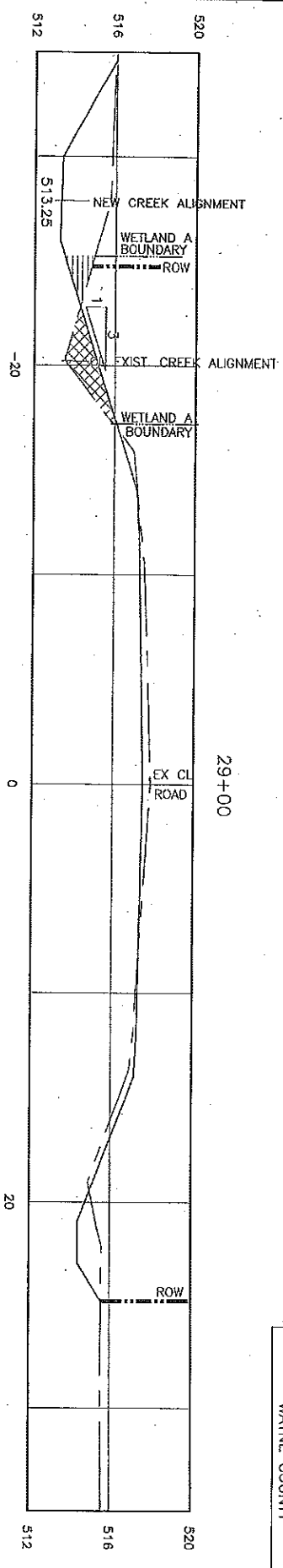
IMPACT CROSS SECTIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. NO.	SCALE	DATE	PROJECT NO.
CS-IMP3	1"=5'	10-8-14	



Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
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SHEET No. 8 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



 DENOTES FILL IMPACT AREA
 DENOTES EXCAVATION AREA

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

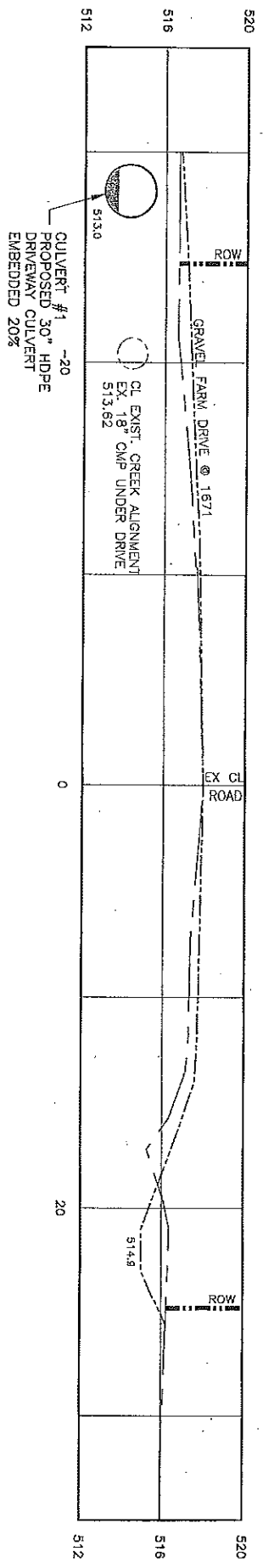
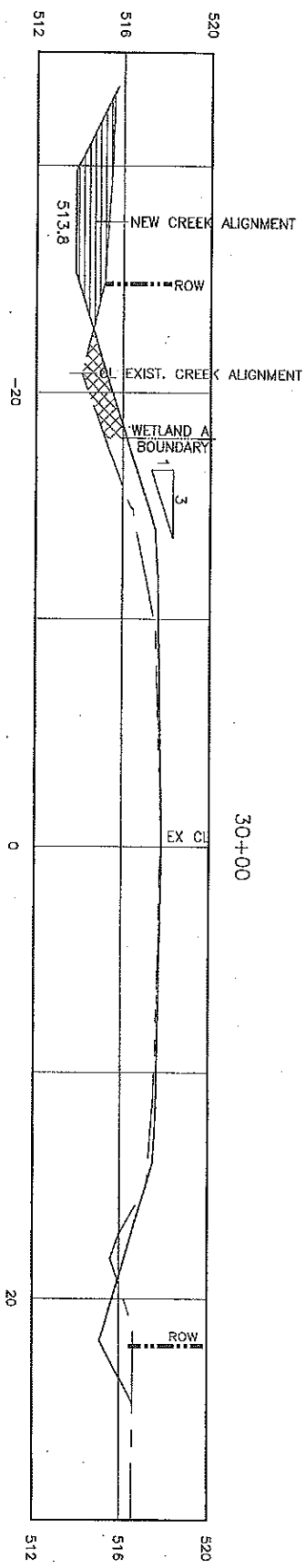
IMPACT CROSS SECTIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. No.	SCALE	DATE	PROJECT No.
CS-IMP4	1"=5'	10-8-14	



Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road)
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SHEET No 9 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



 DENOTES FILL IMPACT AREA
 DENOTES EXCAVATION AREA

NO ALTERATION PERMITTED HEREON EXCEPT AS SHOWN IN THESE SECTIONS UNDER SUPERVISION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION

IMPACT CROSS SECTIONS			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. No.	SCALE	DATE	PROJECT No.
CS-IMP5	1"=5'	10-8-14	

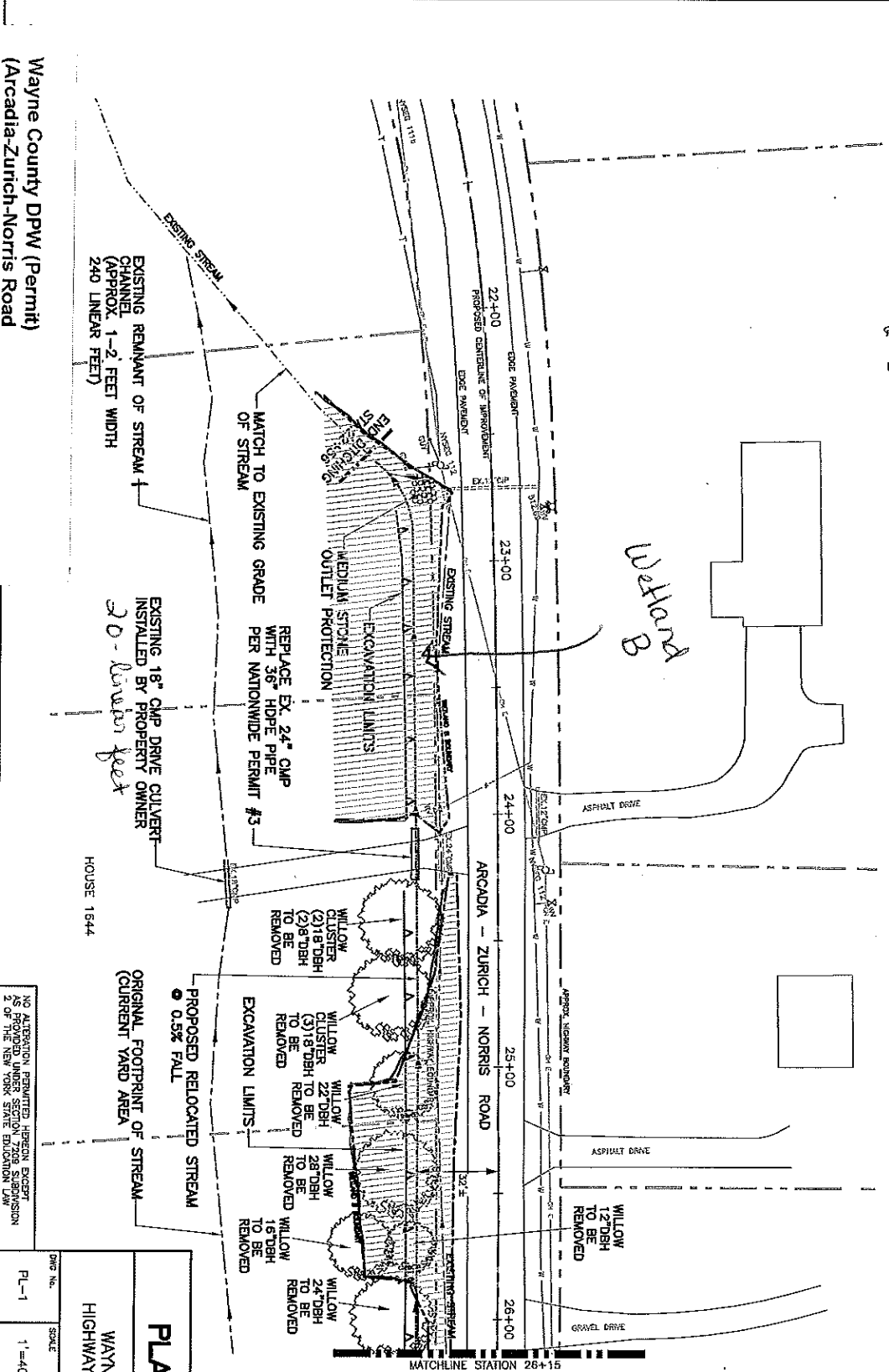
Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

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SHEET No 1 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



PLAN VIEW			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DWG. NO.	SCALE	DATE	PROJECT NO.
PL-1	1"=40'	7-20-14	10-33-14

NO ALTERATION PERMITTED HEREON EXCEPT AS SHOWN
 2 OF THE NEW YORK STATE EDITION, 2014

EXISTING REMNANT OF STREAM CHANNEL
 (APPROX. 1-2 FEET WIDTH
 240 LINEAR FEET)

EXISTING 18" CMP DRIVE CULVERT
 INSTALLED BY PROPERTY OWNER
 20' linear feet

HOUSE 1644

PROPOSED RELOCATED STREAM
 @ 0.5% FALL

ORIGINAL FOOTPRINT OF STREAM
 (CURRENT YARD AREA)

MATCH TO EXISTING GRADE
 OF STREAM

REPLACE EX. 24" CMP
 WITH 36" HDPE PIPE
 PER NATIONWIDE PERMIT #3

EXCAVATION LIMITS
 MEDIUM STONE
 OUTLET PROTECTION

WILLOW CLUSTER
 (2) 18" DBH
 (2) 8" DBH
 TO BE REMOVED

WILLOW CLUSTER
 (3) 18" DBH
 TO BE REMOVED

WILLOW 22" DBH
 TO BE REMOVED

WILLOW 28" DBH
 TO BE REMOVED

WILLOW 16" DBH
 TO BE REMOVED

WILLOW 24" DBH
 TO BE REMOVED

WILLOW 12" DBH
 TO BE REMOVED

MATCHLINE STATION 26+15

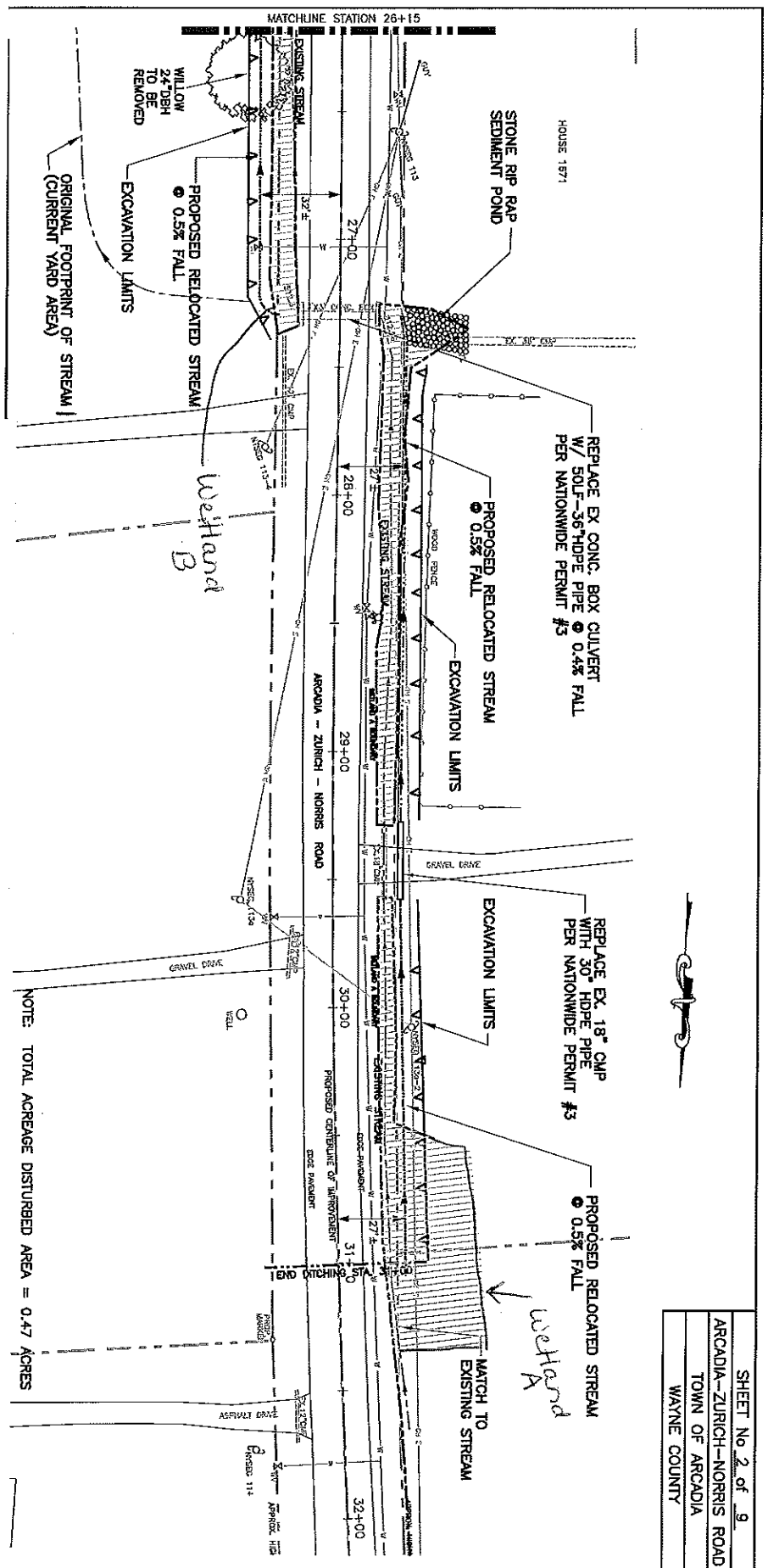
Handwritten: Parcel B

Wayne County DPW (Permit)
 (Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY

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SHEET No. 2 of 9
 ARCADIA-ZURICH-NORRIS ROAD
 TOWN OF ARCADIA
 WAYNE COUNTY



NOTE: TOTAL ACREAGE DISTURBED AREA = 0.47 ACRES

NO ALTERATION, RELOCATION, OR REMOVAL OF ANY STRUCTURE OR OBSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE NEW YORK STATE EDUCATION LAW

PLAN VIEW			
WAYNE COUNTY HIGHWAY DEPARTMENT			
DATE	SCALE	PROJECT NO.	
10-23-14	1"=40'	PL-2	

Wayne County DPW (Permit)
 Arcadia-Zurich-Norris Road
 D/A Processing No. 2014-00561
 Wayne County, NY
 Quad: Newark, NY



WETLAND DELINEATION MAP

Wayne County DPW (Permit)
(Arcadia-Zurich-Norris Road)
D/A Processing No. 2014-00561
Wayne County, NY
Quad: Newark, NY

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Legend

● Sample Points

— Tributary

Wetland Typ

PEM

PFO

Wetland A
0.14 Acres

Wetland ID	Cover Type	Area
Wetland A	PFO	0.04 ac
	PEM	0.10 ac
Wetland B	PFO	0.18 ac
	PEM	0.10 ac

Stream 1 900 linear feet
Stream 2 80 linear feet



SP7
SP8

Stream #1

Wetland B
0.28 Acres

SP5
SP6

Stream #2

SP4

SP3

SP2

Stream #1

SP1

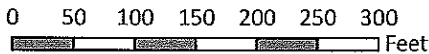
Wayne County DPW (Permit)
Arcadia-Zurich-Norris Road
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1 inch = 150 feet



New York Quadrangle Location

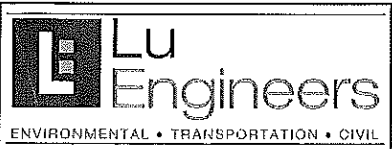


FIGURE A
FEDERAL JURISDICTIONAL WETLANDS

ARCADIA-ZURICH-NORRIS ROAD
VILLAGE OF NEWARK, NEW YORK

DATE: AUGUST 2014
PROJECT NO:
DRAWN/CHECKED: SMK/BB
DATA SOURCE: NYS ORTHOIMAGERY