Public Notice

Applicant: Ohio Department of Transportation

Date:
Published: October 18, 2004
Expires: November 16, 2004

U.S. Army Corps of Engineers
Buffalo District

In Reply Refer To:
CELRB-TD-R RE: 2004-00953(1) **Section:** OH 404

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

The Ohio Department of Transportation, 1980 West Broad Street, Columbus, Ohio 43223, has applied for Department of the Army authorization to perform work in wetlands and tributaries of the Muskellunge Creek. The project is located along a 2.75 mile corridor of State Route 53, from North Street to the eastbound Ohio Turnpike overpass, in the City of Fremont, Sandusky County, Ohio.

Department of the Army authorization is required to fill 0.36 acre of wetlands, permanently impact 3,163 linear feet of unnamed tributary, and temporarily impact 125 linear feet of stream. The majority of stream impacts are in a stream that is contained within a highway ditch. Approximately 25 linear feet of Stream 1 will be culverted with a 48" pipe, 85 linear feet of Muskellunge Creek will be impacted by widening a bridge, and 3,053 linear feet Streams 2 and 3 will be impacted by road deepening, widening, filling, and/or grading.

As mitigation for the unavoidable loss of federally jurisdictional wetlands, ODOT proposes to purchase 0.54 credits from the Blue Heron Reserve Wetland Mitigation Bank. As mitigation for the unavoidable loss of stream, ODOT proposes to restore a portion of the Sandusky River at the site where St. Johns dam was recently removed, located south of County Road 6, in Seneca Township, Seneca County, Ohio.

The applicant's stated purpose is to improve the traffic capacity of the existing two lane highway by widening the road and bridges to four lanes.

A letter of jurisdictional determination was issued in Action 0 of this file. Two wetlands totaling 0.38 acre and several jursdictional streams were verified on the property.

Location and details of the above described work are shown on the attached maps and drawings.

Questions pertaining to the work described in this notice should be directed to Pauline D. Thorndike, who can be contacted by calling (716) 879-4237, or by e-mail at: pauline.d.thorndike@usace.army.mil

The following authorization(s) may be required for this project:

Water Quality Certification (or waiver thereof) from the Ohio Environmental Protection Agency.

Phase I and Phase II historic and archaeological survey reports were prepared in 1993. ODOT subsequently coordinated with Ohio SHPO, and received concurrence on October 18, 1993 that the project will not affect or use land from any significant archaeological properties.

In addition, available evidence indicates that the proposed work will not affect a species proposed or designated by the U.S. Department of the Interior as threatened or endangered, nor will it affect the critical habitat of any such species.

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 should be sent to the U. S. Army Corps of Engineers, 1776 Niagara Street, Buffalo, New York 14207, and should be marked to the attention of Pauline D. Thorndike, or by e-mail at: pauline.d.thorndike@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

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 of Engineers 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, nor 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.

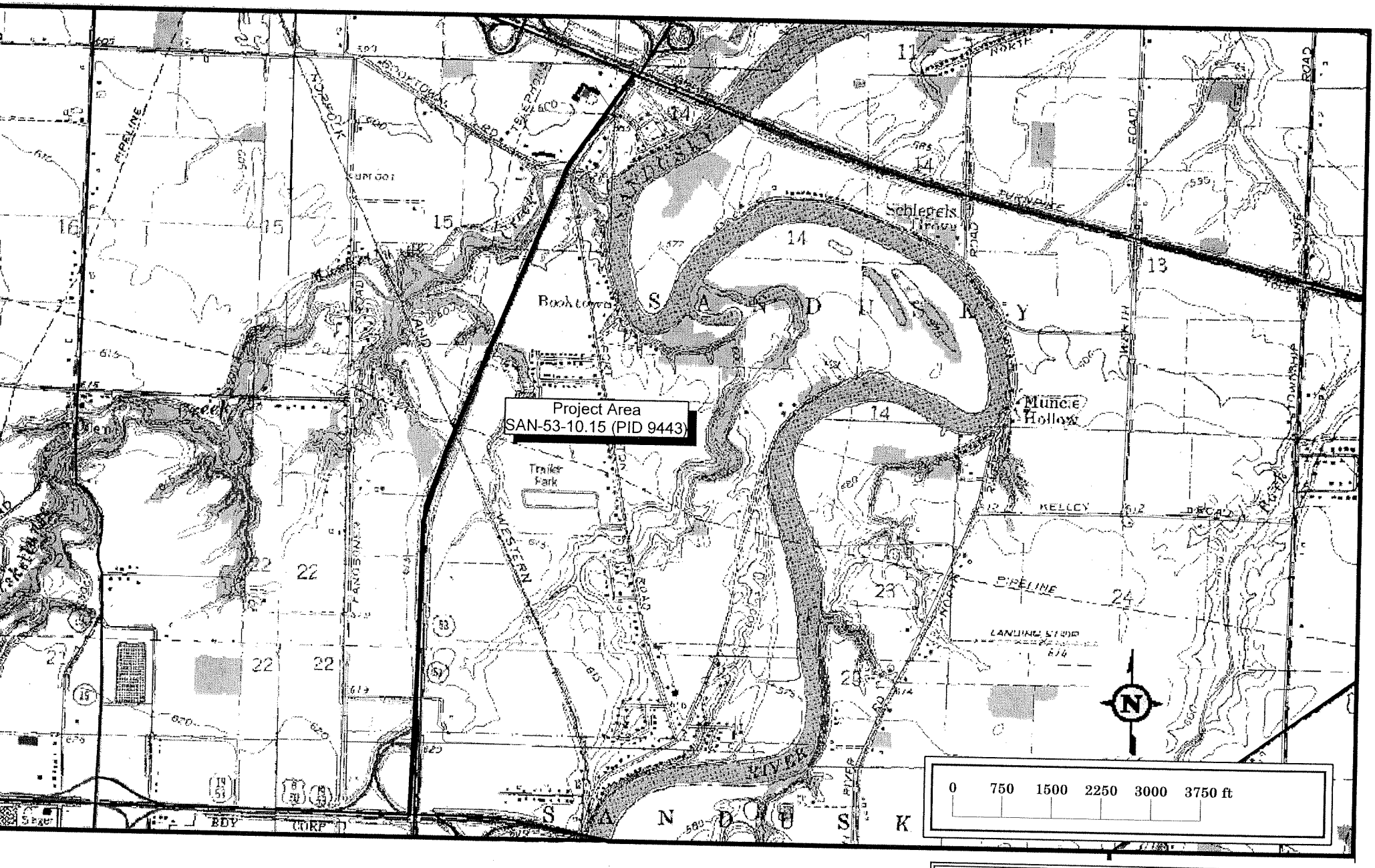
The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine 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 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

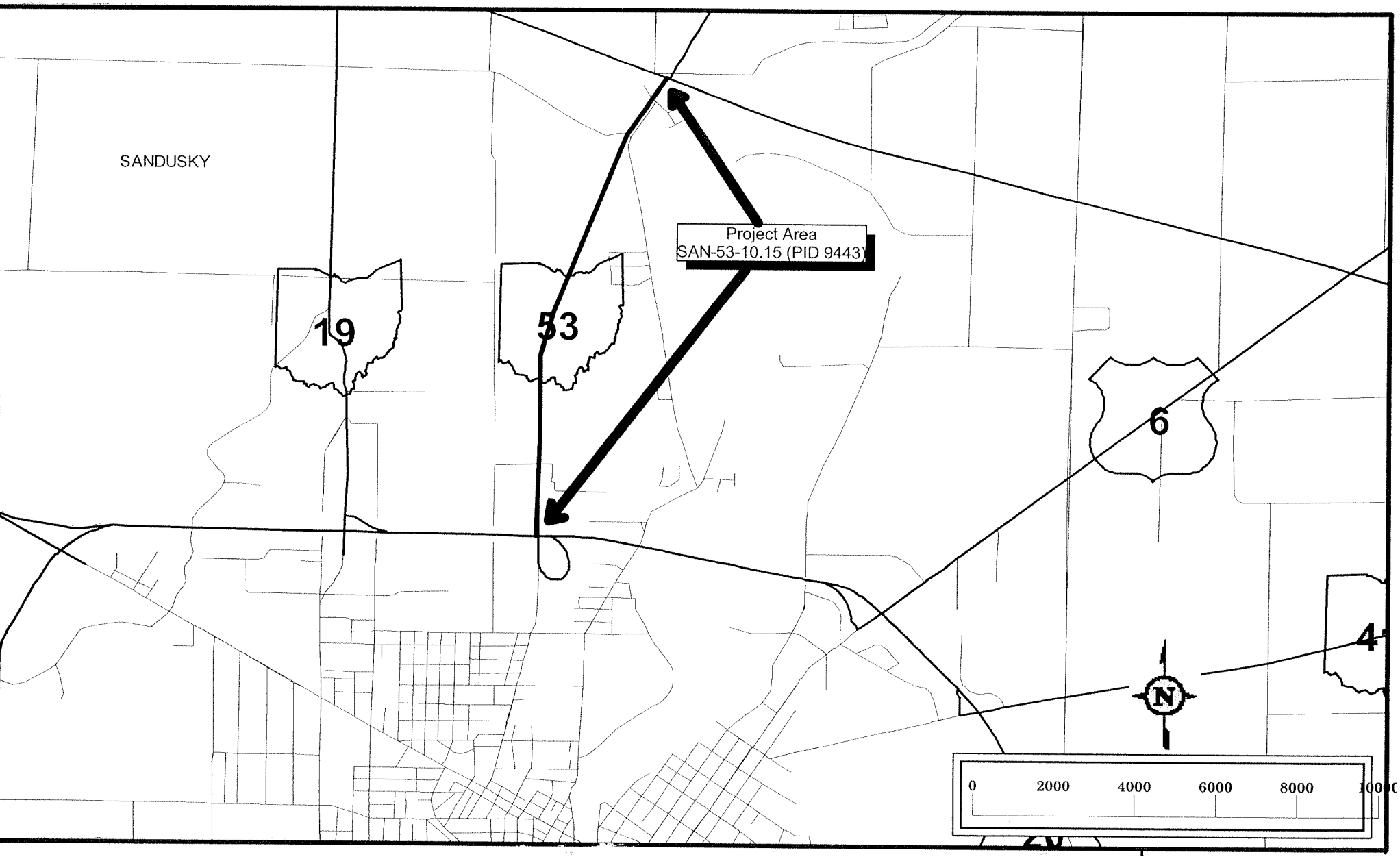
Thomas C. Switala
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.



USGS MAP
Fremont East/West, Linsey and Weightman's Grove Quads
Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

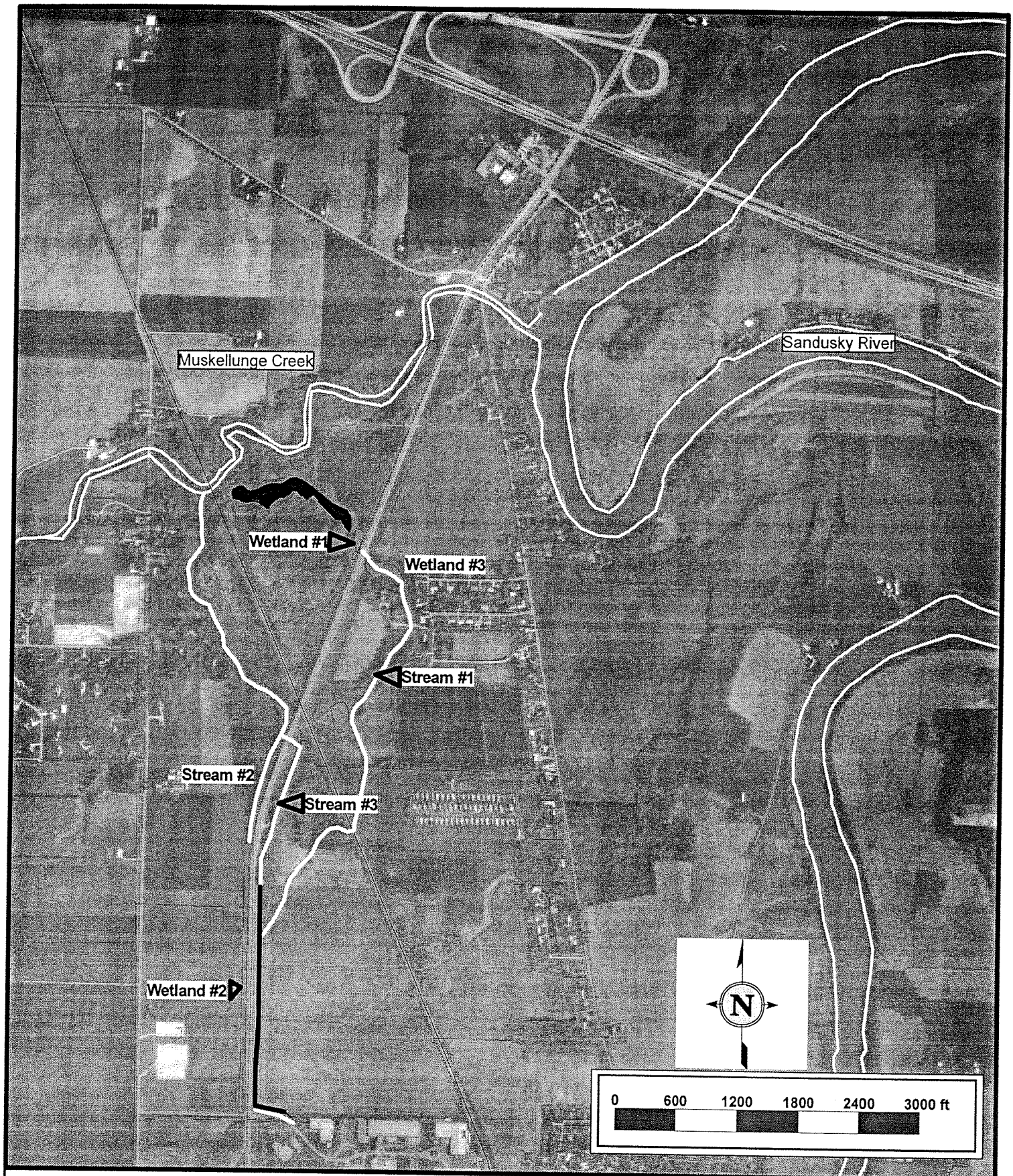
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 1 of 24 LOCATION MAP



PROJECT LOCATION MAP

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

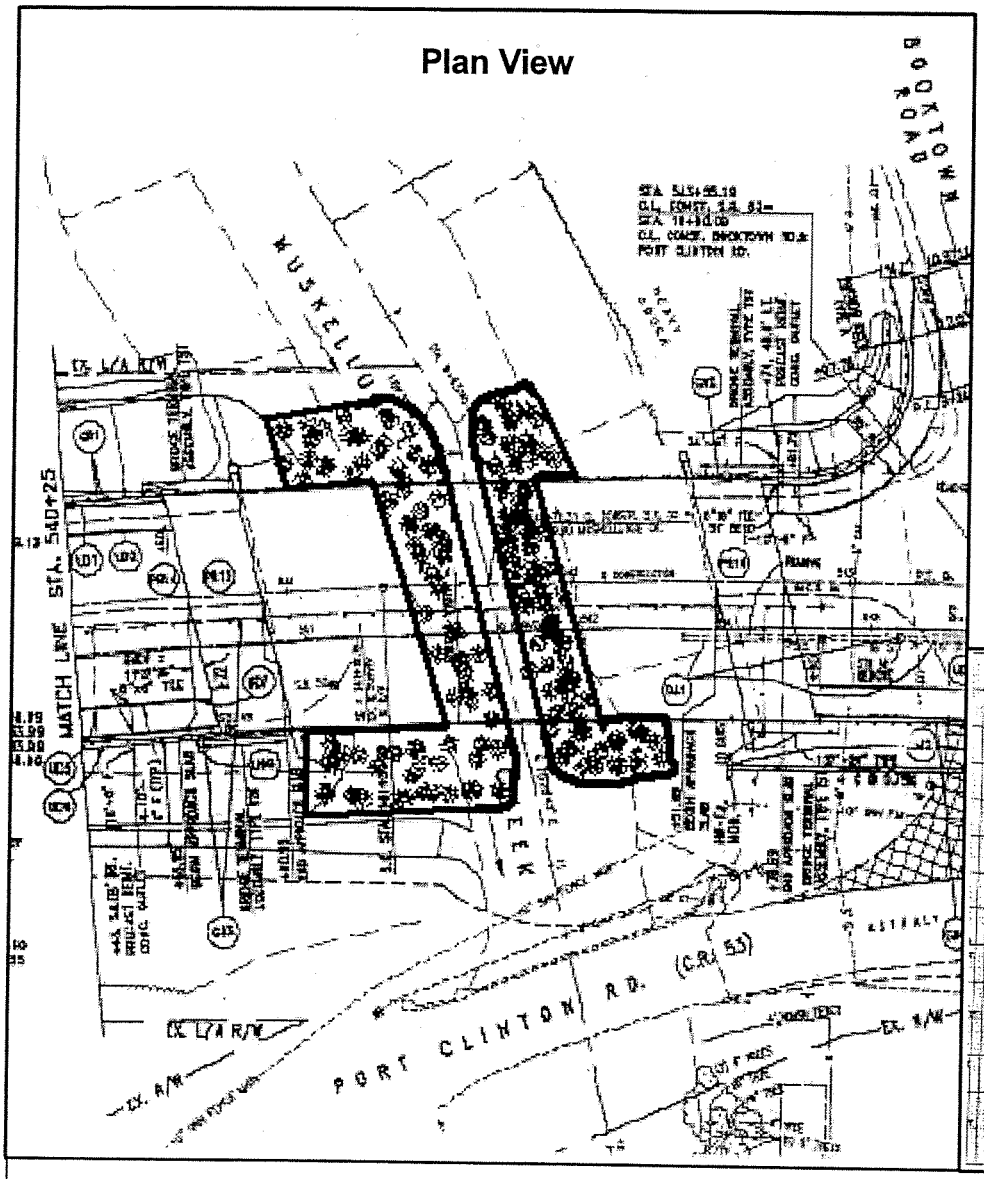
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 2 of 24 LOCATION MAP

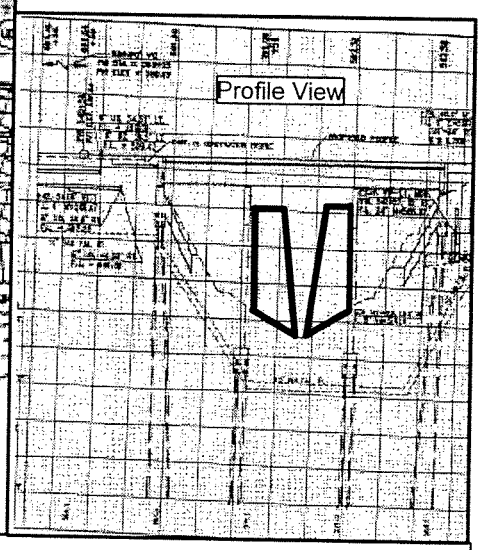


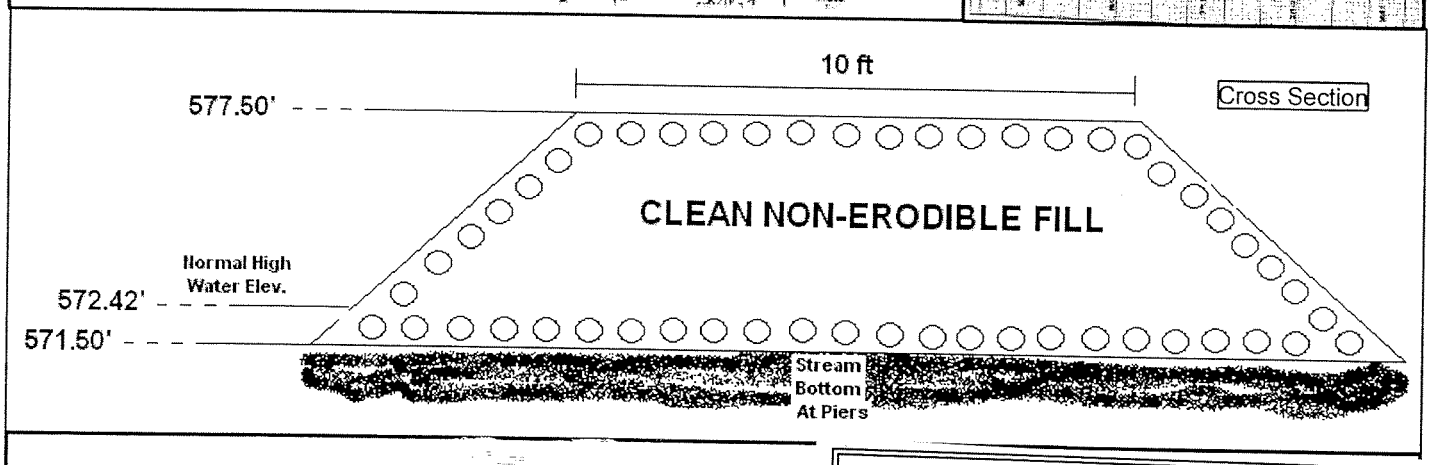
LOCATION MAP FOR STREAMS AND WET

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

ODOT SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 3 of 24
STREAM & WETLAND LOCATION MAP



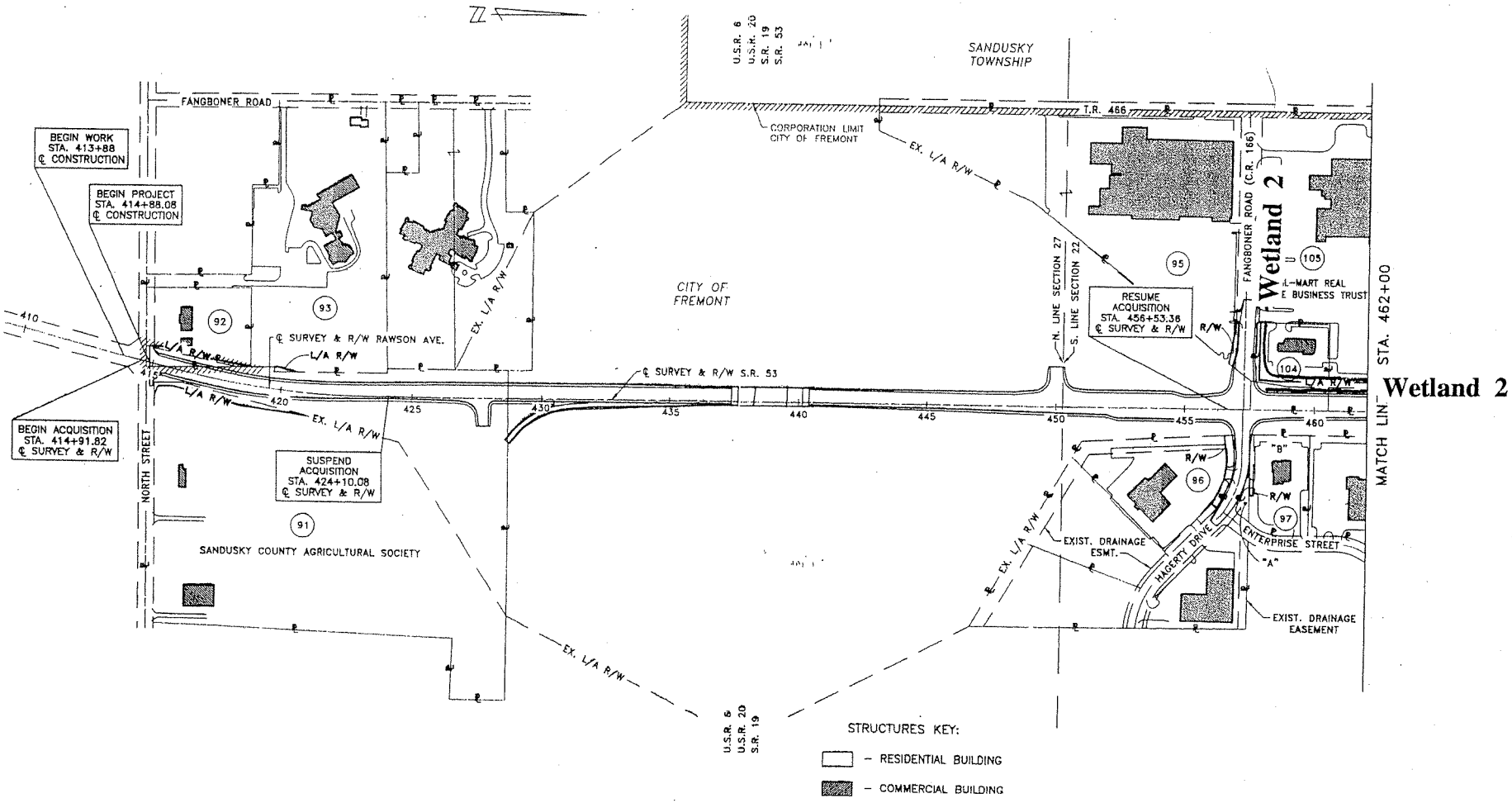




TEMPORARY ACCESS FILL PLAN AND PRO

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

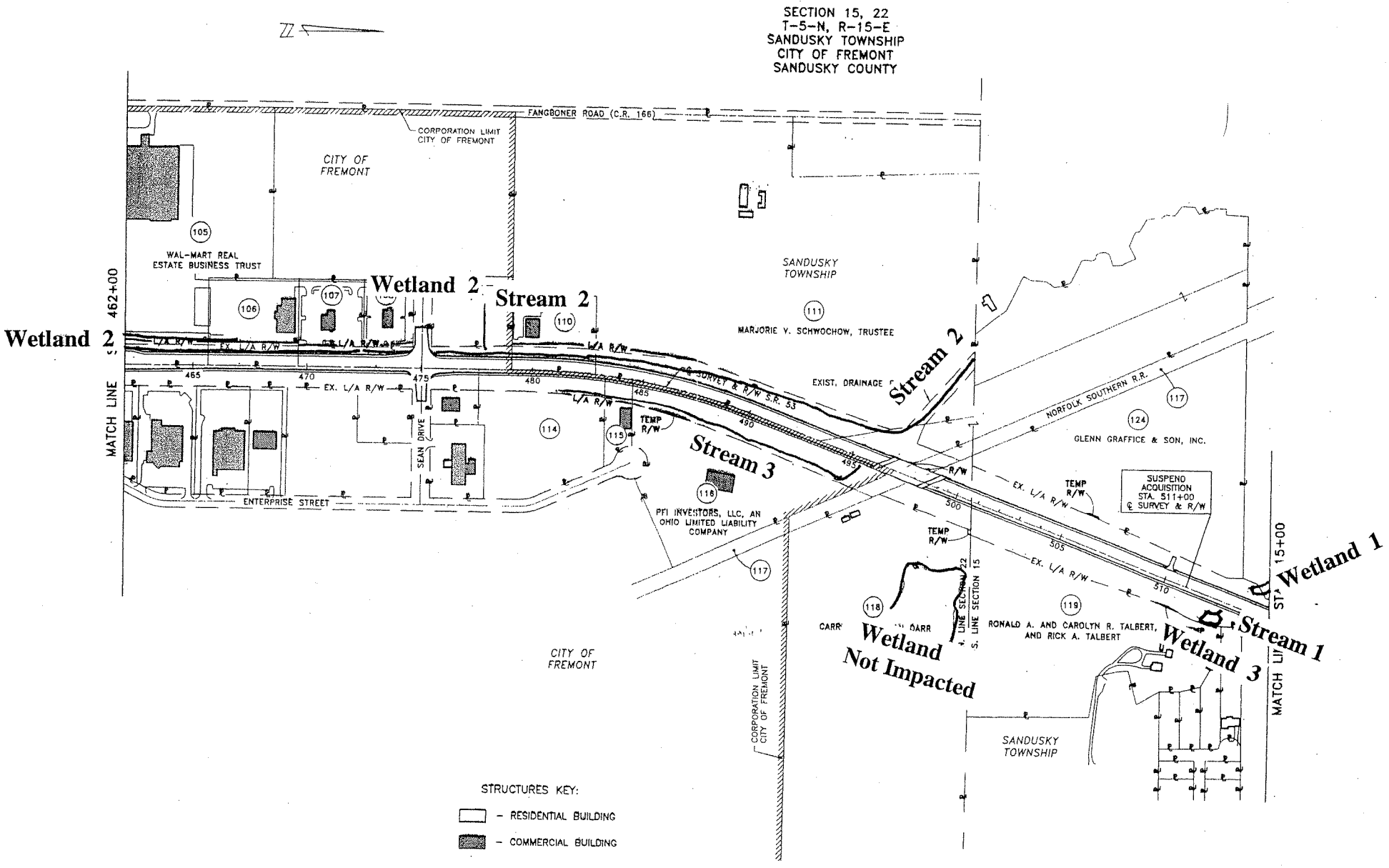
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 4 of 24 TEMPORARY FILLS



PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 5 of 24 STA. 413+88 to 462+00



PROJECT PLAN SHEETS

Ohio Department of Transportation
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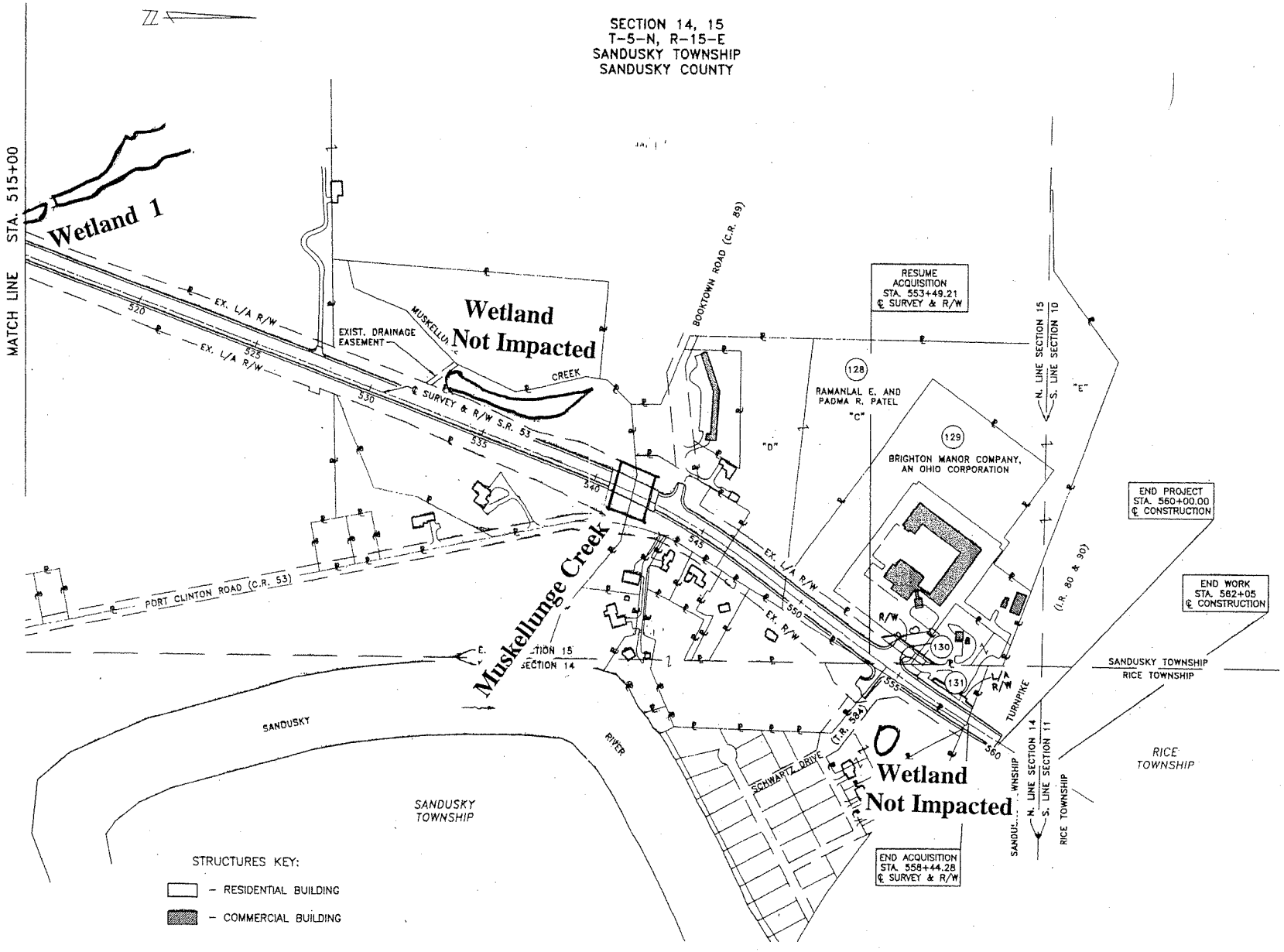
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 6 of 24 STA. 462+00 to 515+00



PROJECT PLAN SHEETS

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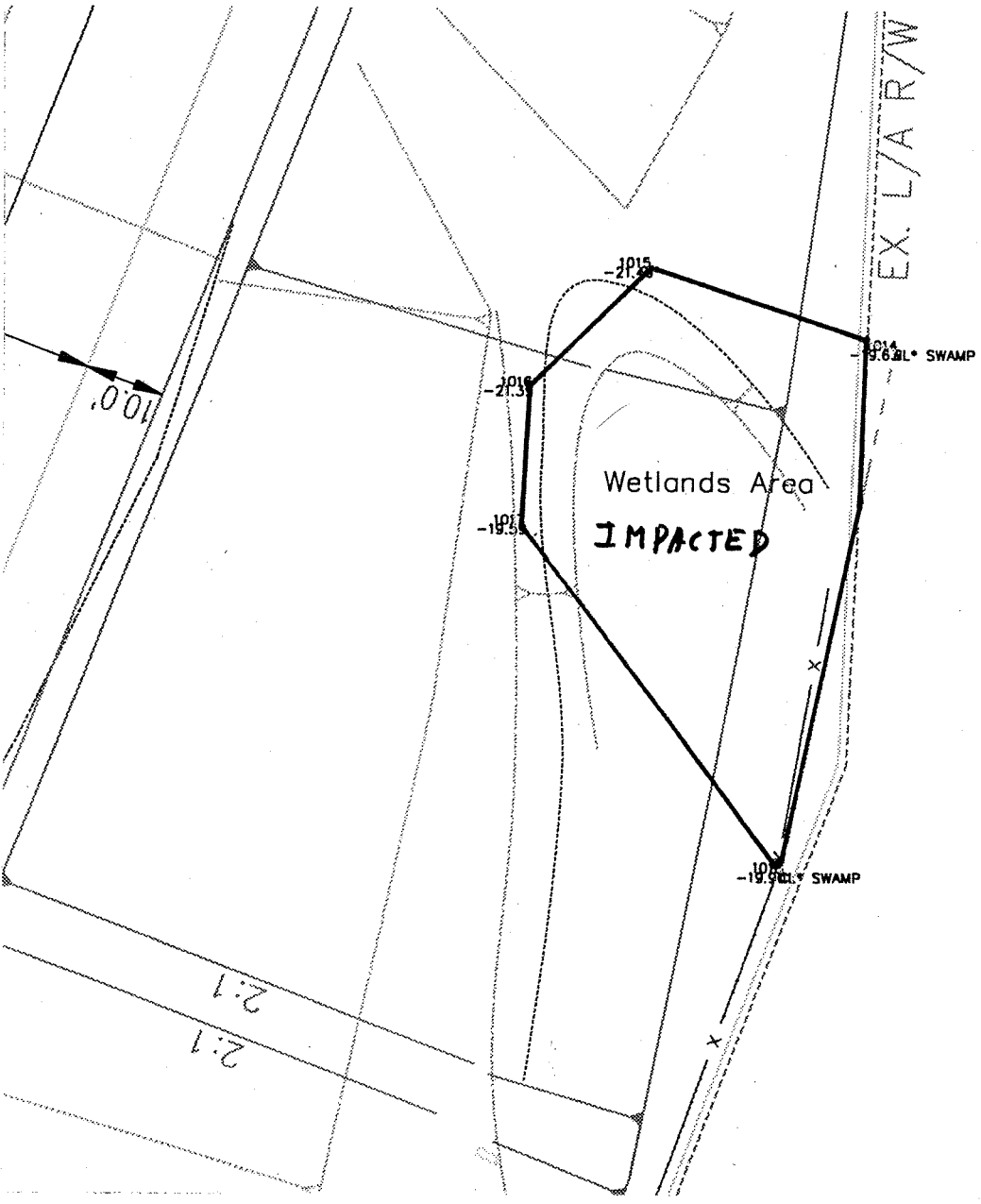
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 7 of 24 STA. 515+00 to 560+00

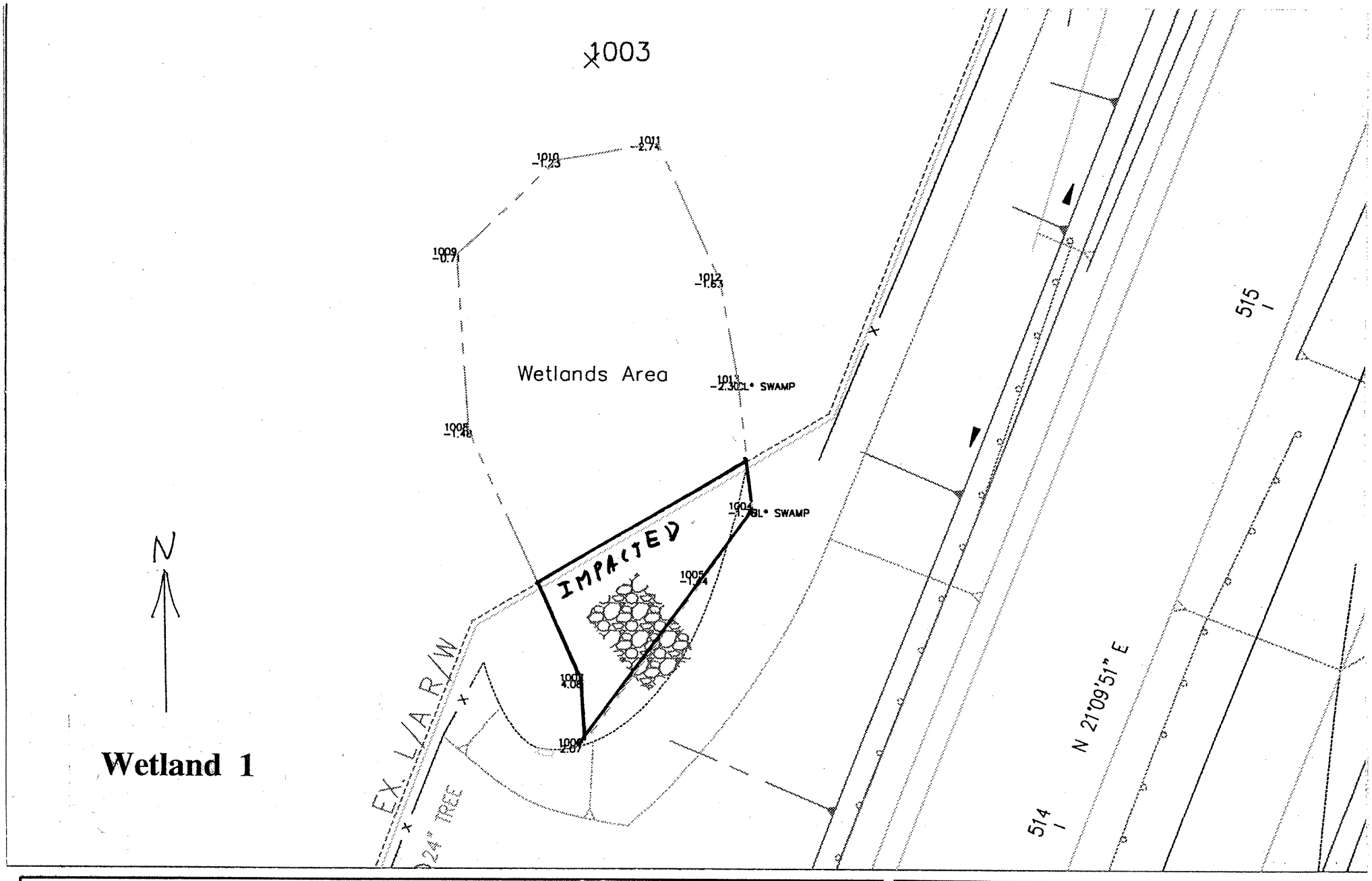


Wetland 3

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 8 of 24 WETLAND 3 IMPACTS

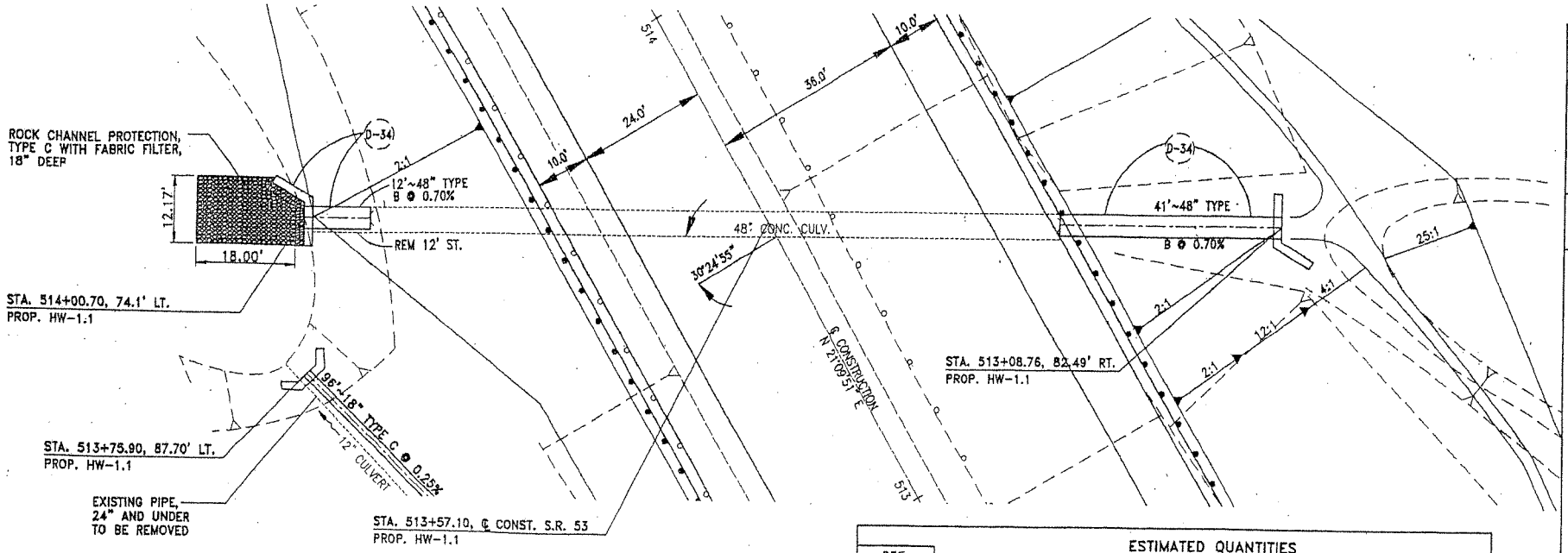


Wetland 1

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 9 of 24 WETLAND 1 IMPACTS



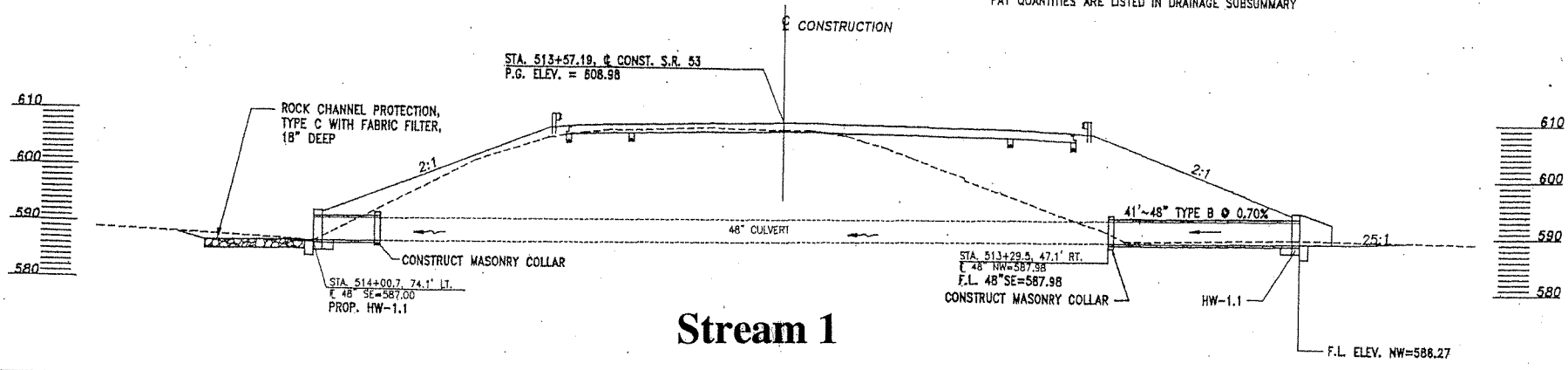
EXISTING STRUCTURE	
TYPE:	REINFORCED CONCRETE PIPE CULVERT
SIZE:	48" CIRCULAR
SKEW:	30°24'55" L.F.
ALIGNMENT:	TANGENT
DATE BUILT:	1957
CONDITION:	GOOD

HYDRAULIC DESIGN DATA		
DRAINAGE AREA	=	7.3 Ac.
Q_{25}	=	78 cfs
Q_{50}	=	95 cfs
HW_{25}	=	591.97
HW_{50}	=	592.57
V_{25}	=	6.2 fps
V_{50}	=	6.6 fps

ESTIMATED QUANTITIES

REF. QUAN.	ITEM	QUAN.	UNIT	DESCRIPTION
D-34	202	12	FT.	PIPE REMOVED, OVER 24"
D-34	601	11	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER
D-34	602	20.6	CU. YD.	CONCRETE MASONRY
D-34	603	43	FT.	48" CONDUIT, TYPE B, 706.02

NOTE: THESE QUANTITIES ARE FOR INFORMATION ONLY
PAY QUANTITIES ARE LISTED IN DRAINAGE SUBSUMMARY



Stream 1

CULVERT DETAIL
S.R. 53 STA. 513+57.10

SAN-53-10.15

236/394

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
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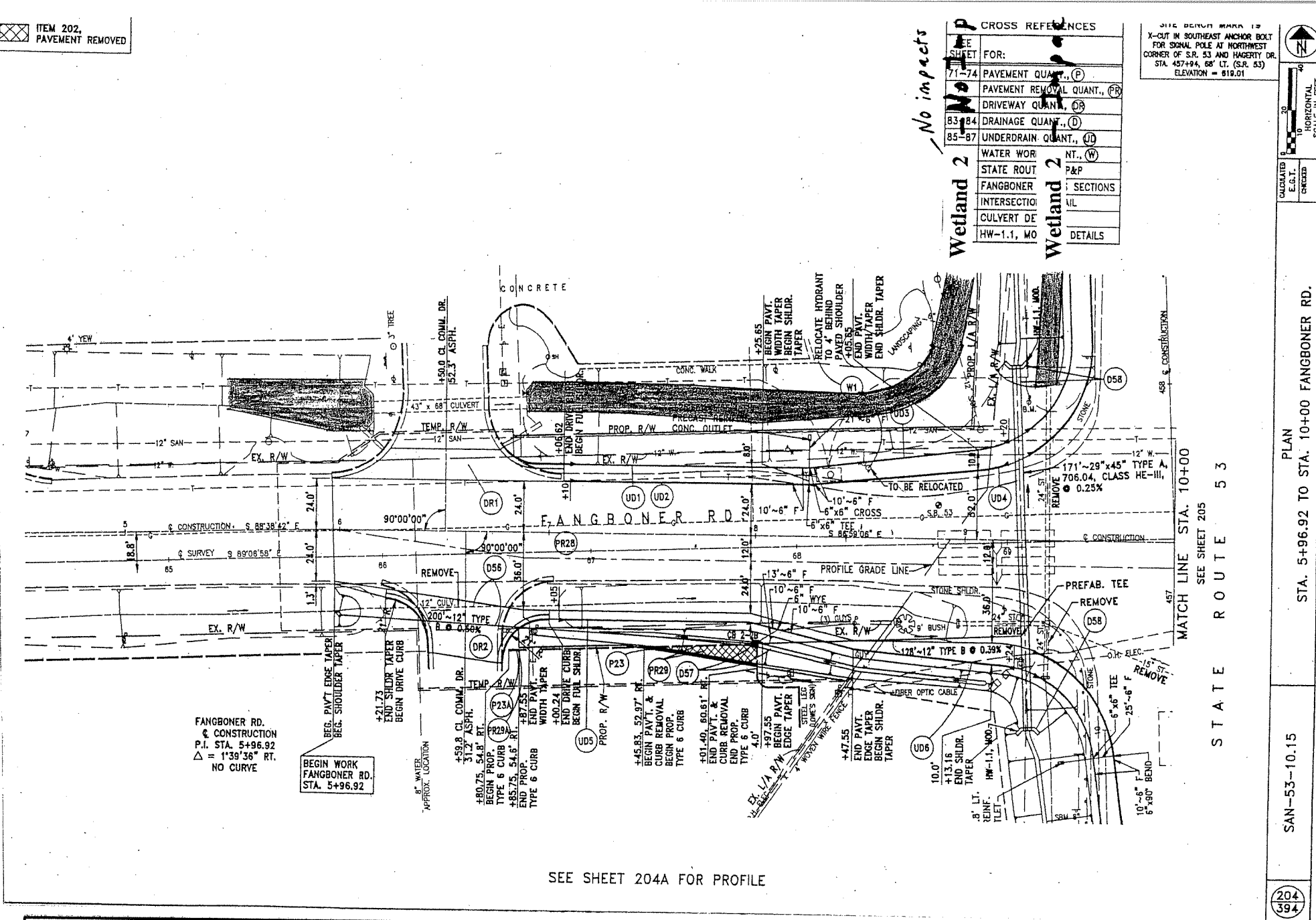
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 10 of 24 STREAM 1 IMPACTS



PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 11 of 24 WETLAND 2 IMPACTS

LEGEND

• PROPOSED SIGNAL POLE

No Impact

Wetland 2

Wetland 2 — Impacted

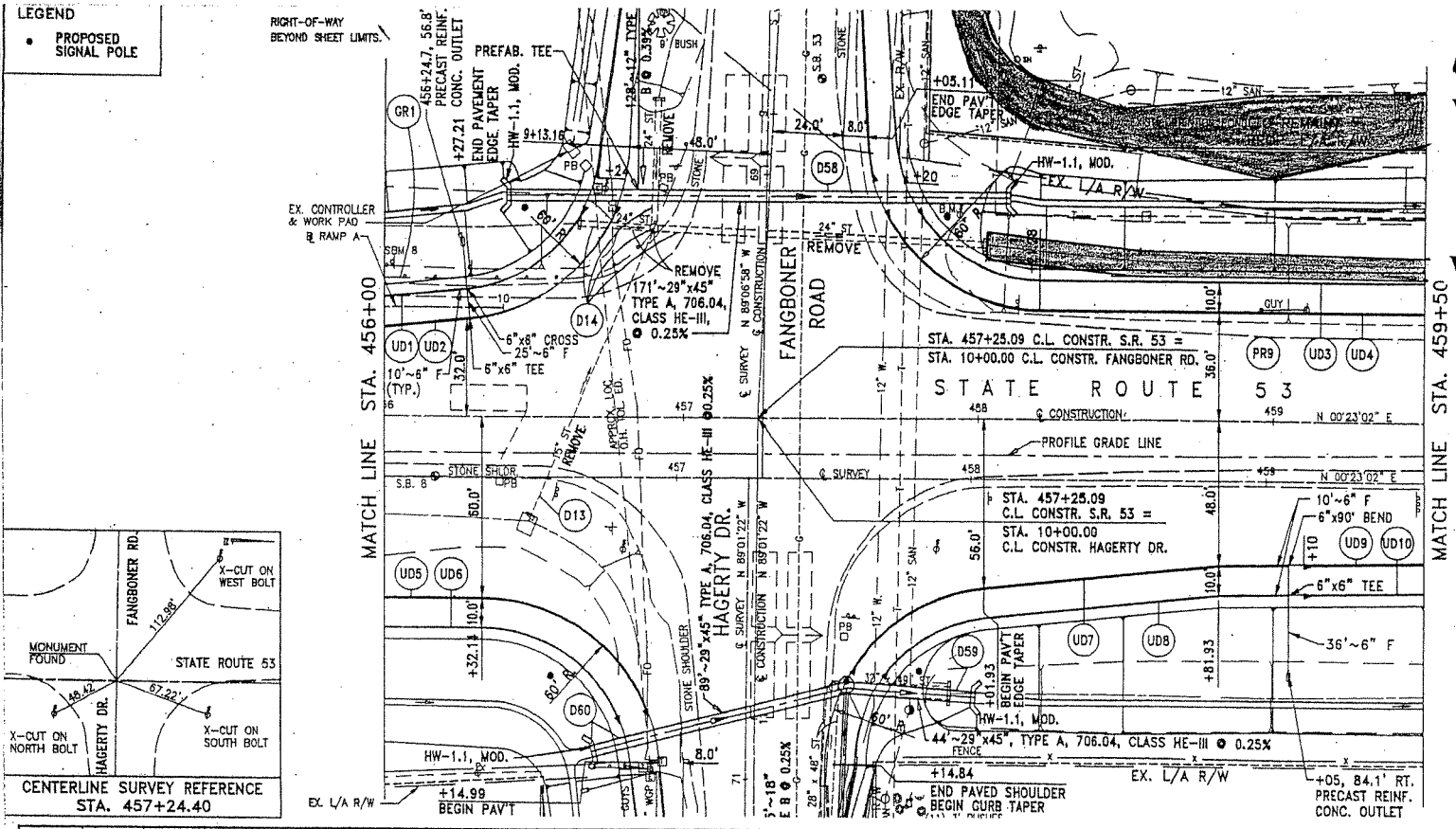
SITE BENCH MARK 8
BOX CUT IN CONCRETE BASE OF EAST LEG OF U.S. RTE 6/20 AND S.R. 19 SIGN
STA. 456+01, 50' LT.
ELEVATION = 617.94

SITE BENCH MARK 9
BOX CUT ON TOP OF SOUTHEAST CORNER OF CONCRETE HEADWALL
STA. 457+02, 160' RT.
ELEVATION = 618.53

SITE BENCH MARK 19
X CUT IN SOUTHEAST ANCHOR BOLT FOR SIGNAL POLE AT NORTHWEST CORNER OF S.R. 53 AND HAGERTY DR.
STA. 457+94, 66' LT.
ELEVATION = 619.01

HORIZONTAL SCALE IN FEET 0 10 20 40

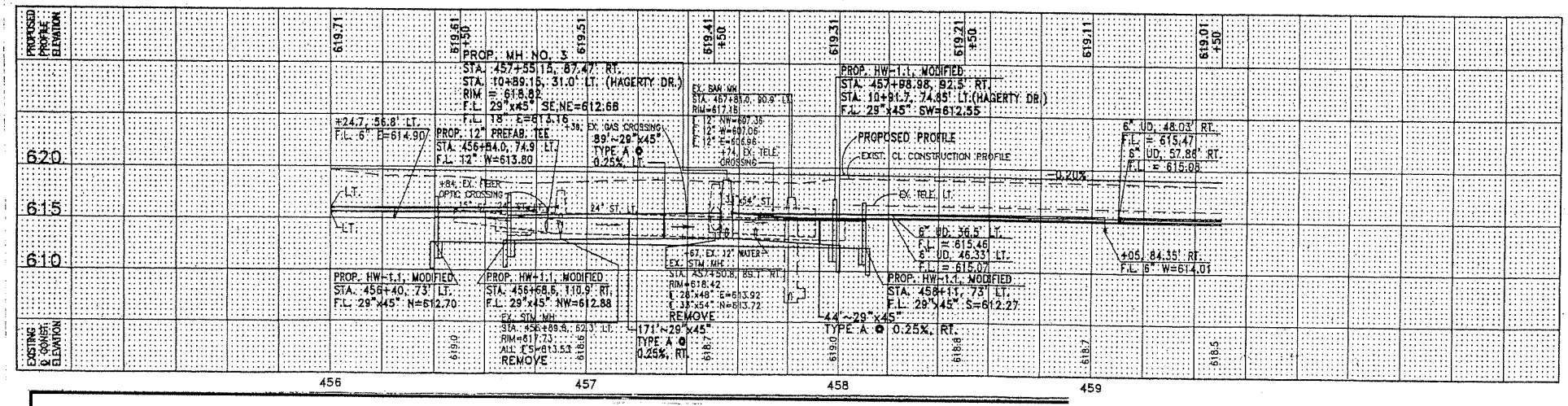
CALCULATED E.C.T. CHECKED THY



CENTERLINE SURVEY REFERENCE
STA. 457+24.40

CROSS REFERENCES

SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., (PR)
83-84	DRAINAGE QUANT., (D)
85-87	UNDERDRAIN QUANT., (UD)
87A	GUARDRAIL QUANT., (GR)
204-204A	FANGBONER RD. PLAN & PROFILE
205-205A	HAGERTY DR. PLAN & PROFILE
227	INTERSECTION DETAIL
231-232	CULVERT DETAILS
238	HW-1.1, MODIFIED DETAILS
346	FENCE WORK
277	SIDEWALK WORK



PLAN AND PROFILE
STA. 456+00 TO STA. 459+50

SAN-53-10.15

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PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
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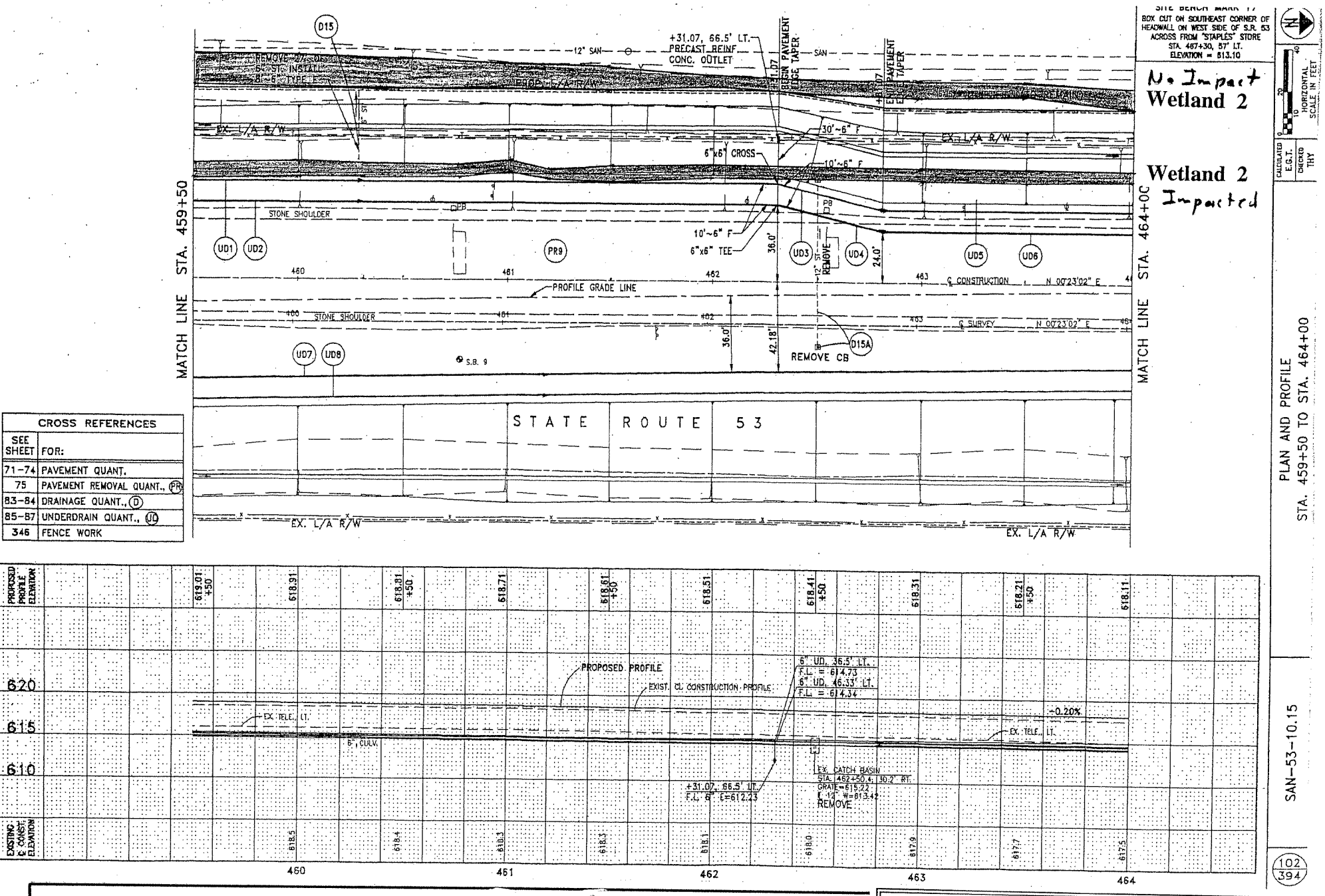
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 12 of 24 WETLAND 2 IMPACTS



CROSS REFERENCES	
SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., PR
83-84	DRAINAGE QUANT., D
85-87	UNDERDRAIN QUANT., UD
346	FENCE WORK

PLAN AND PROFILE
STA. 459+50 TO STA. 464+00

SAN-53-10.15

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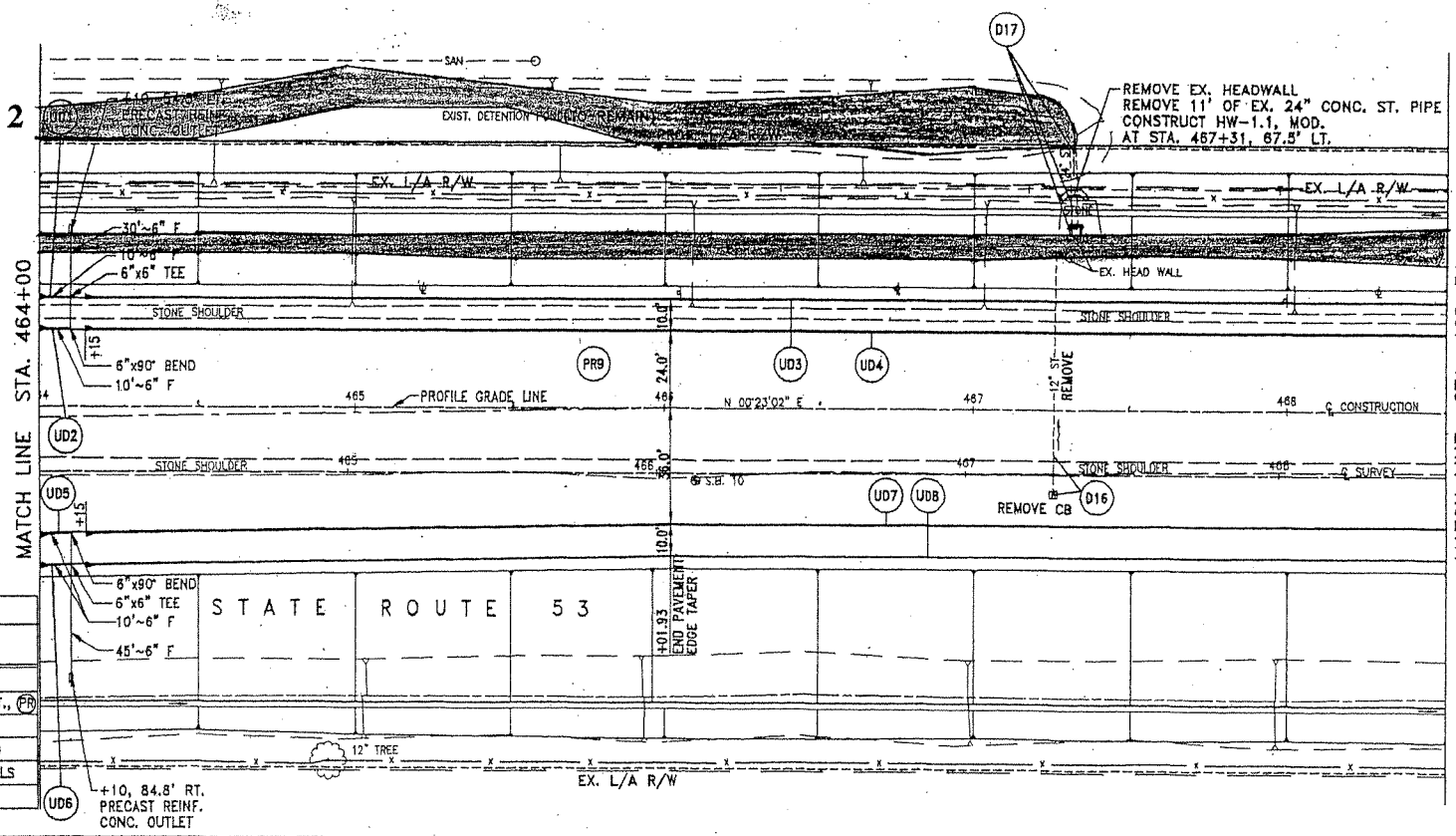
PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 13 of 24 WETLAND 2 IMPACTS

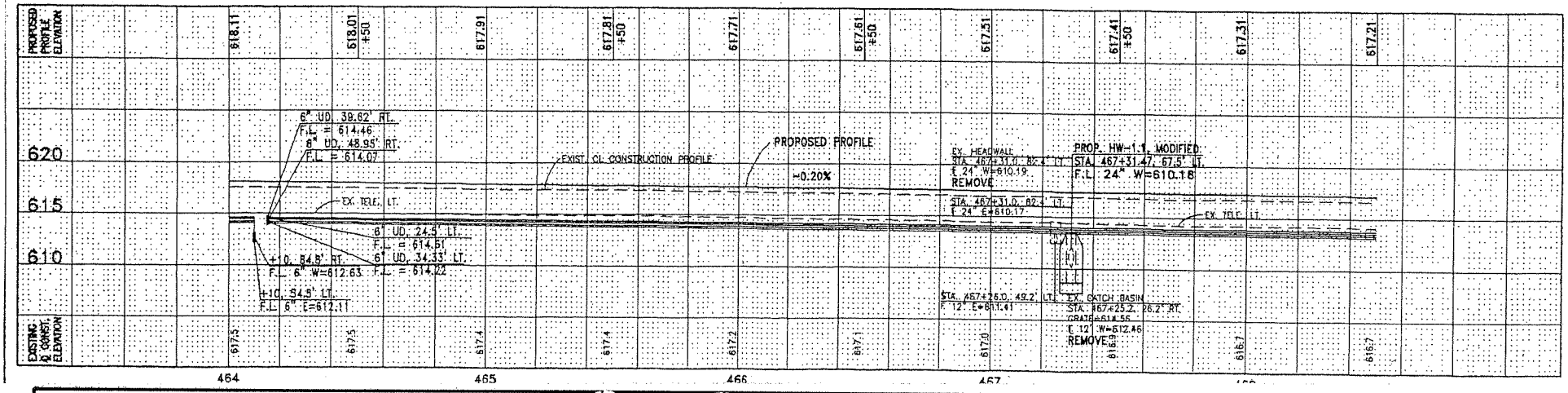
No Impact
Wetland 2

SITE BENCH MARK 17
BOX CUT ON SOUTHEAST CORNER OF HEADWALL ON WEST SIDE OF S.R. 53 ACROSS FROM "STAPLES" STORE
STA. 467+30, 57' LT.
ELEVATION = 813.10



Wetland 2
Impacted

CROSS REFERENCES	
SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., (PR)
83-84	DRAINAGE QUANT., (D)
85-87	UNDERDRAIN QUANT., (UD)
237	HW-1.1, MODIFIED DETAILS
347	FENCE WORK



PLAN AND PROFILE
STA. 464+00 TO STA. 468+50

SAN-53-10.15

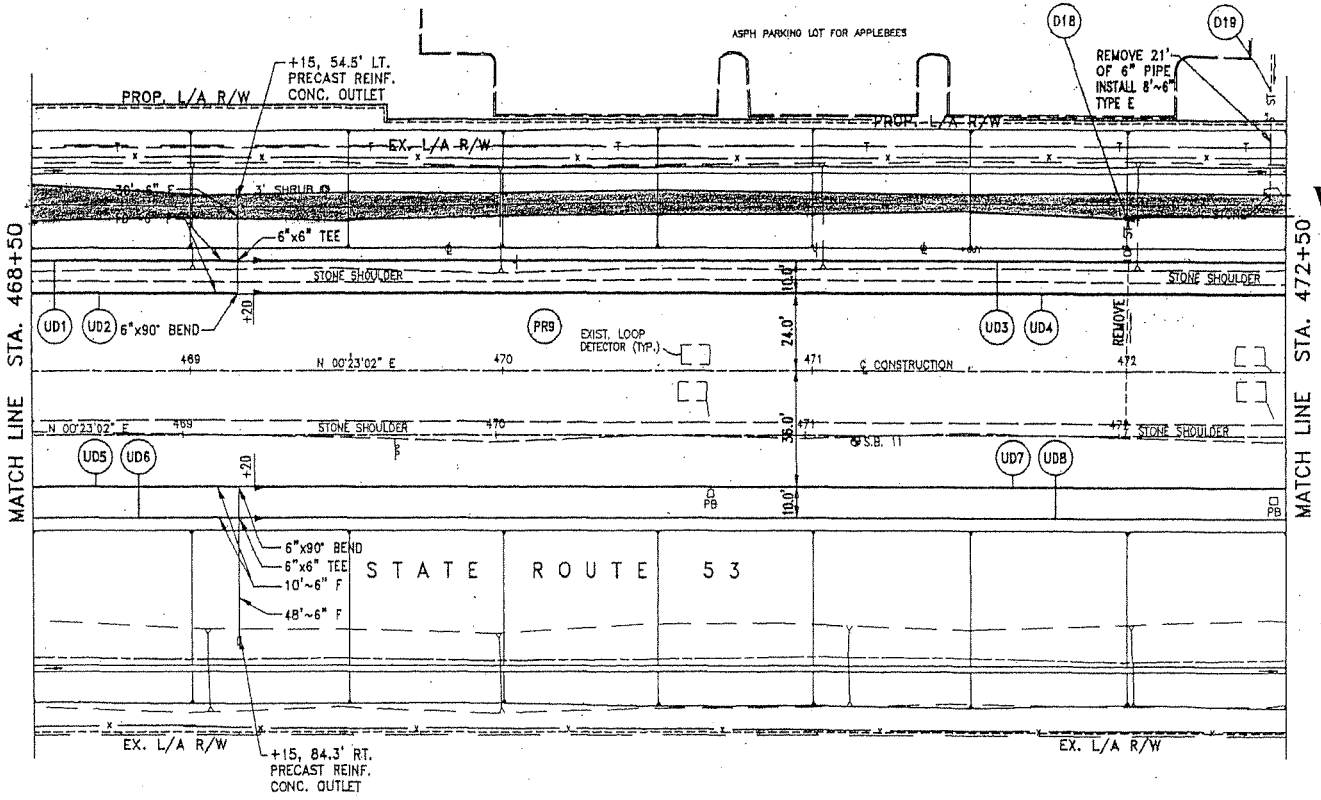
103
394

PROJECT PLAN SHEETS

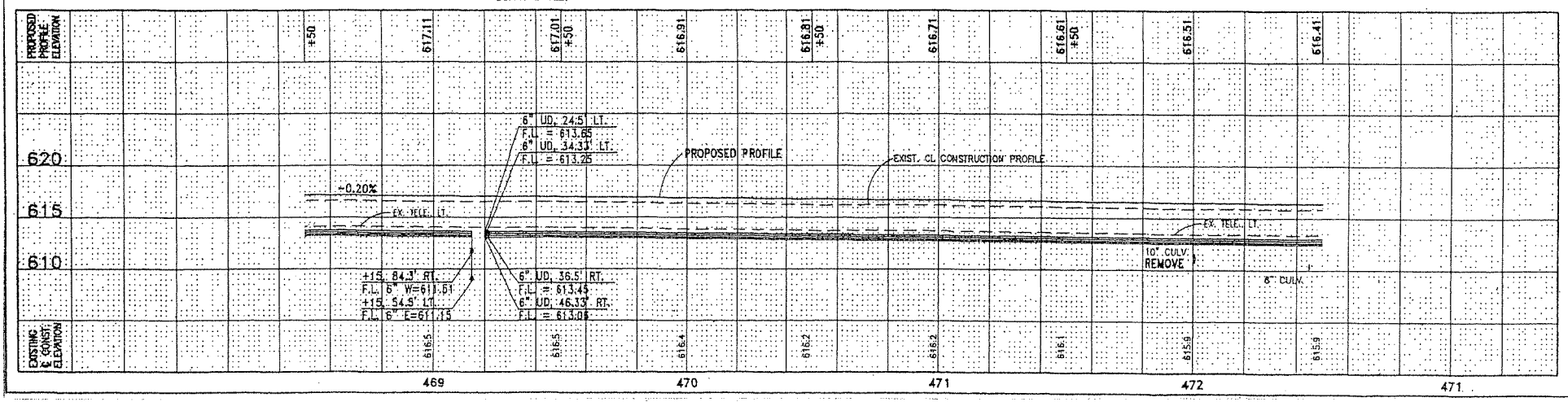
Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 14 of 24 WETLAND 2 IMPACTS

BOX CUT ON SOUTHEAST CORNER OF HEADWALL ON WEST SIDE OF S.R. 53 ACROSS FROM "STAPLES" STORE STA. 467+30, 57' LT. ELEVATION = 813.10



CROSS REFERENCES	
SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., PR
83-84	DRAINAGE QUANT., D
85-87	UNDERDRAIN QUANT., UD
347	FENCE WORK



PLAN AND PROFILE
STA. 468+50 TO STA. 472+50

SAN-53-10.15

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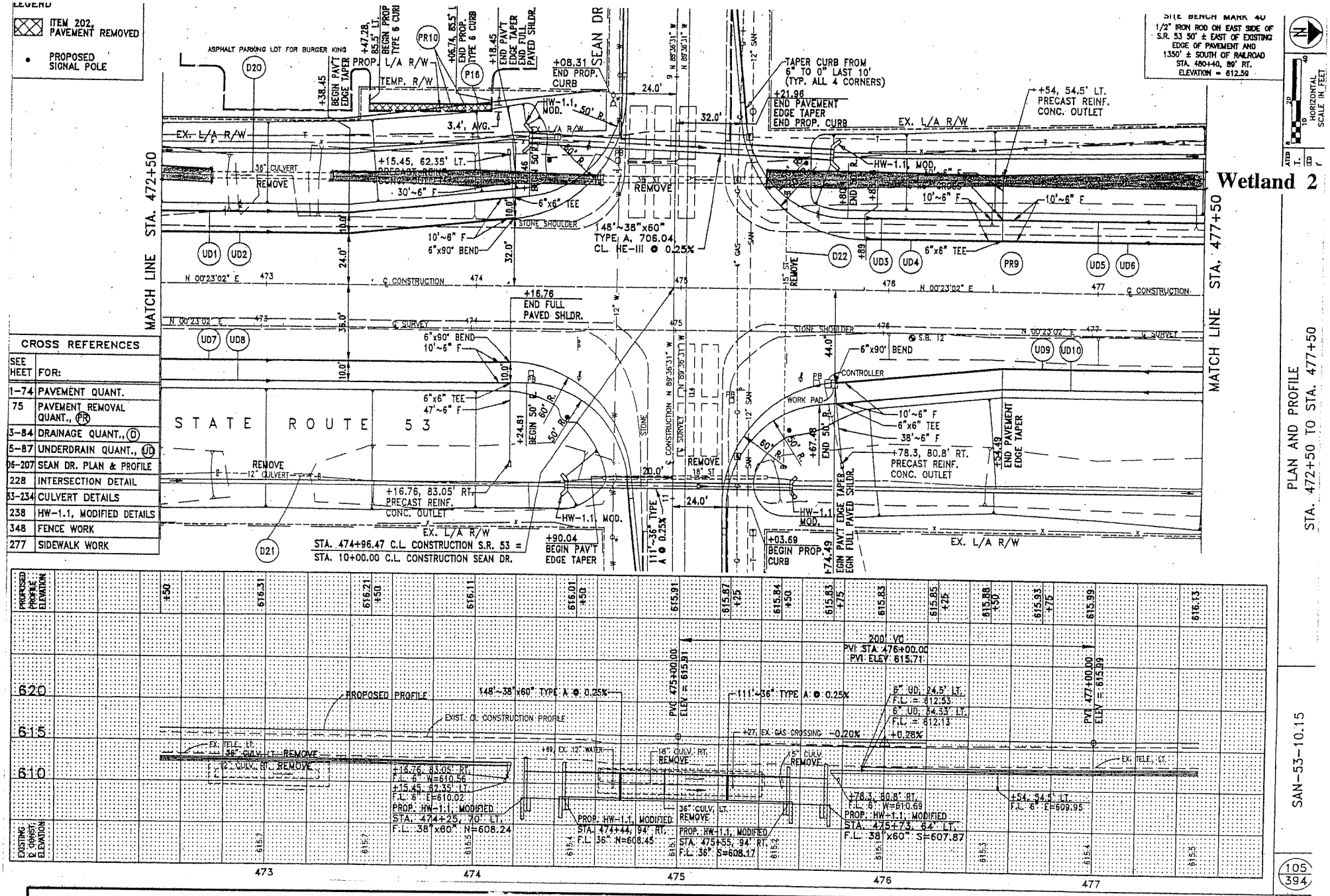
PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 15 of 24 WETLAND 2 IMPACTS



CROSS REFERENCES	
SEE HEET	FOR:
1-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., PR
3-84	DRAINAGE QUANT., D
5-87	UNDERDRAIN QUANT., UD
06-207	SEAN DR. PLAN & PROFILE
228	INTERSECTION DETAIL
33-234	CULVERT DETAILS
238	HW-1.1, MODIFIED DETAILS
348	FENCE WORK
277	SIDEWALK WORK

PROJECT PLAN SHEETS

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SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
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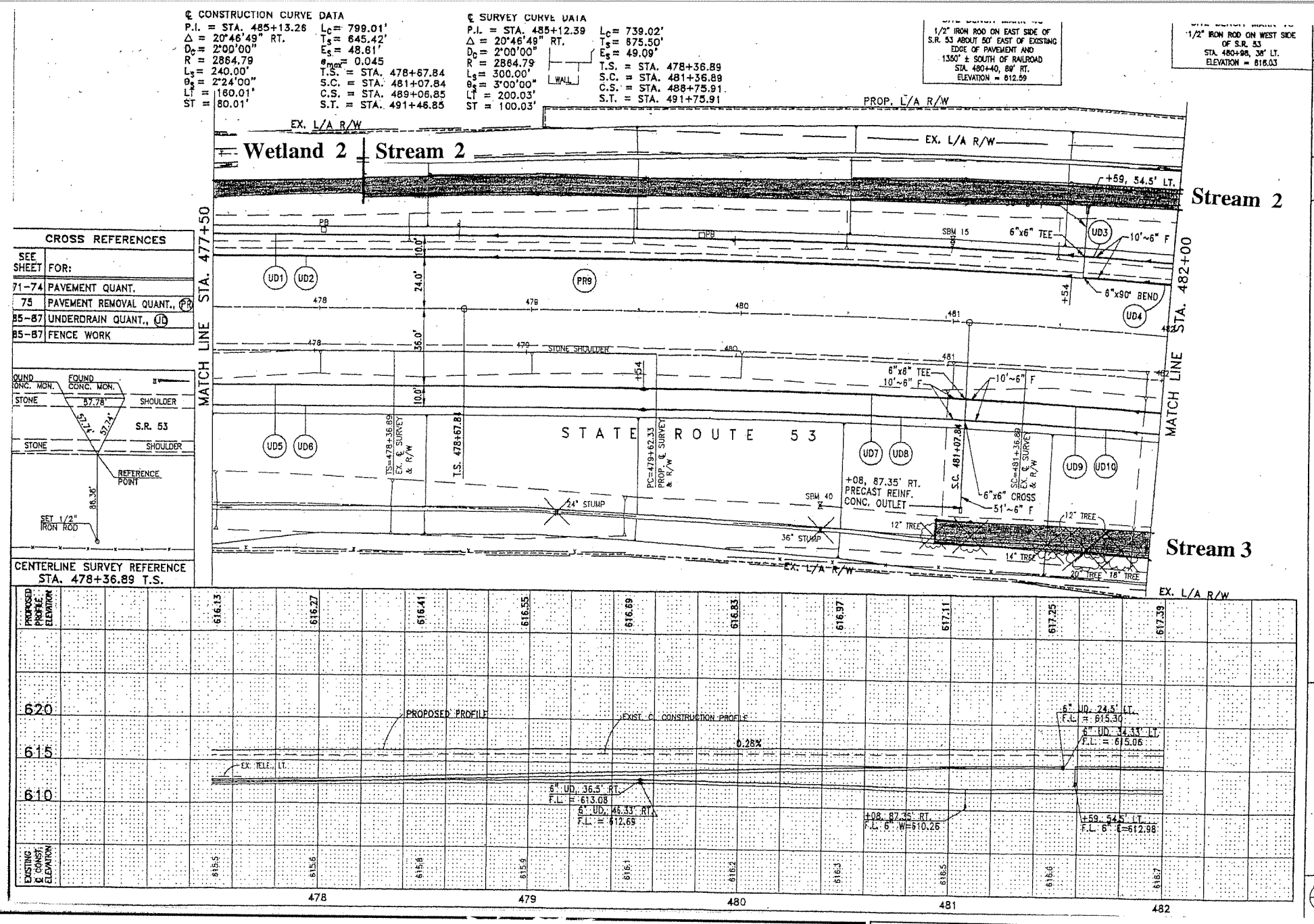
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 16 of 24 WETLAND 2 IMPACTS



CROSS REFERENCES	
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85-87	UNDERDRAIN QUANT., UD
85-87	FENCE WORK

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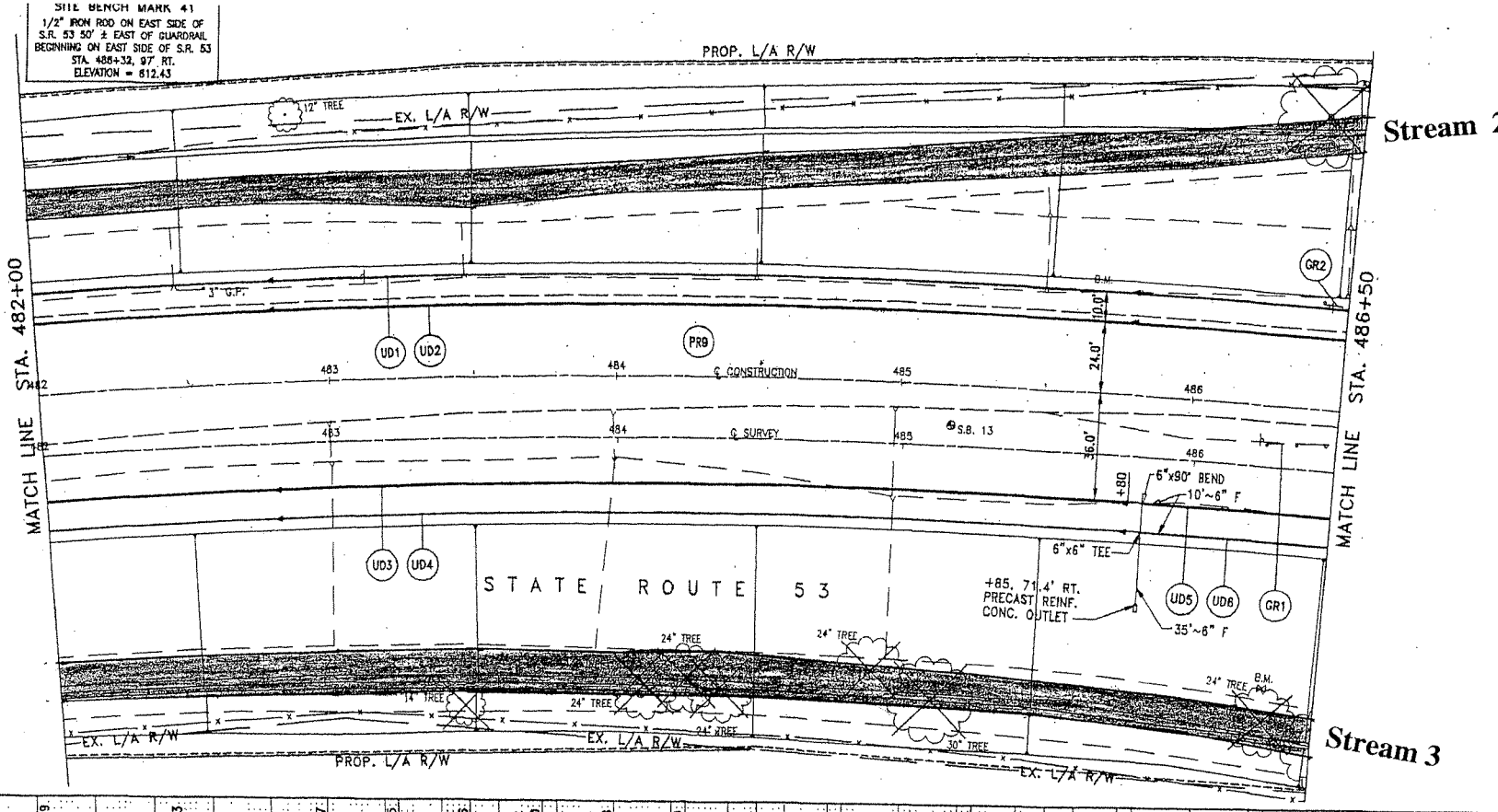
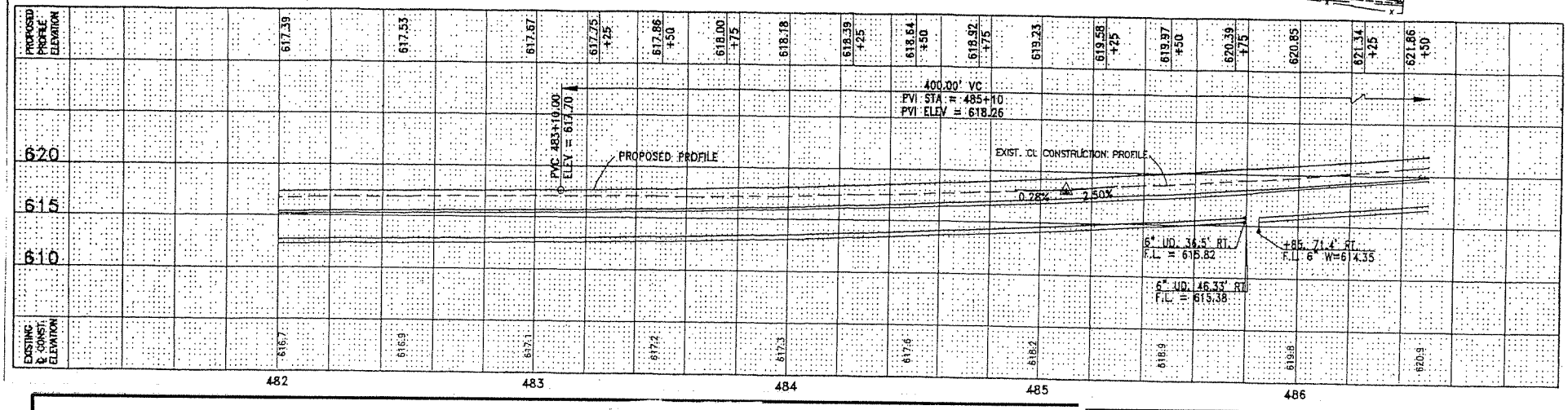
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 17 of 24 STREAM 2 & 3 IMPACTS

CROSS REFERENCES	
SEE SHEET	FOR:
1–74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., PR
5–87	UNDERDRAIN QUANT., UD
87A	GUARDRAIL QUANT., GR
349	FENCE WORK

℄ CONSTRUCTION CURVE DATA
P.I. = STA. 485+13.26
Δ = 20°46'49" RT.
D_C = 2°00'00"
R = 2864.79
L_S = 240.00'
θ_S = 2°24'00"
LT = 160.01'
ST = 80.01'
L_C = 799.01'
T_S = 645.42'
E_S = 48.61'
e_{max} = 0.045
T.S. = STA. 478+67.84
S.C. = STA. 481+07.84
C.S. = STA. 489+05.85
S.T. = STA. 491+46.85

℄ SURVEY CURVE DATA
P.I. = STA. 485+12.39
Δ = 20°46'49" RT.
D_C = 2°00'00"
R = 2864.79
L_S = 300.00'
θ_S = 3°00'00"
LT = 200.03'
ST = 100.03'
L_C = 739.02'
T_S = 675.50'
E_S = 49.09'
T.S. = STA. 478+36.89
S.C. = STA. 481+36.89
C.S. = STA. 488+75.91
S.T. = STA. 491+75.91





PLAN AND PROFILE
STA. 482+00 TO STA. 486+50

SAN-53-10.15

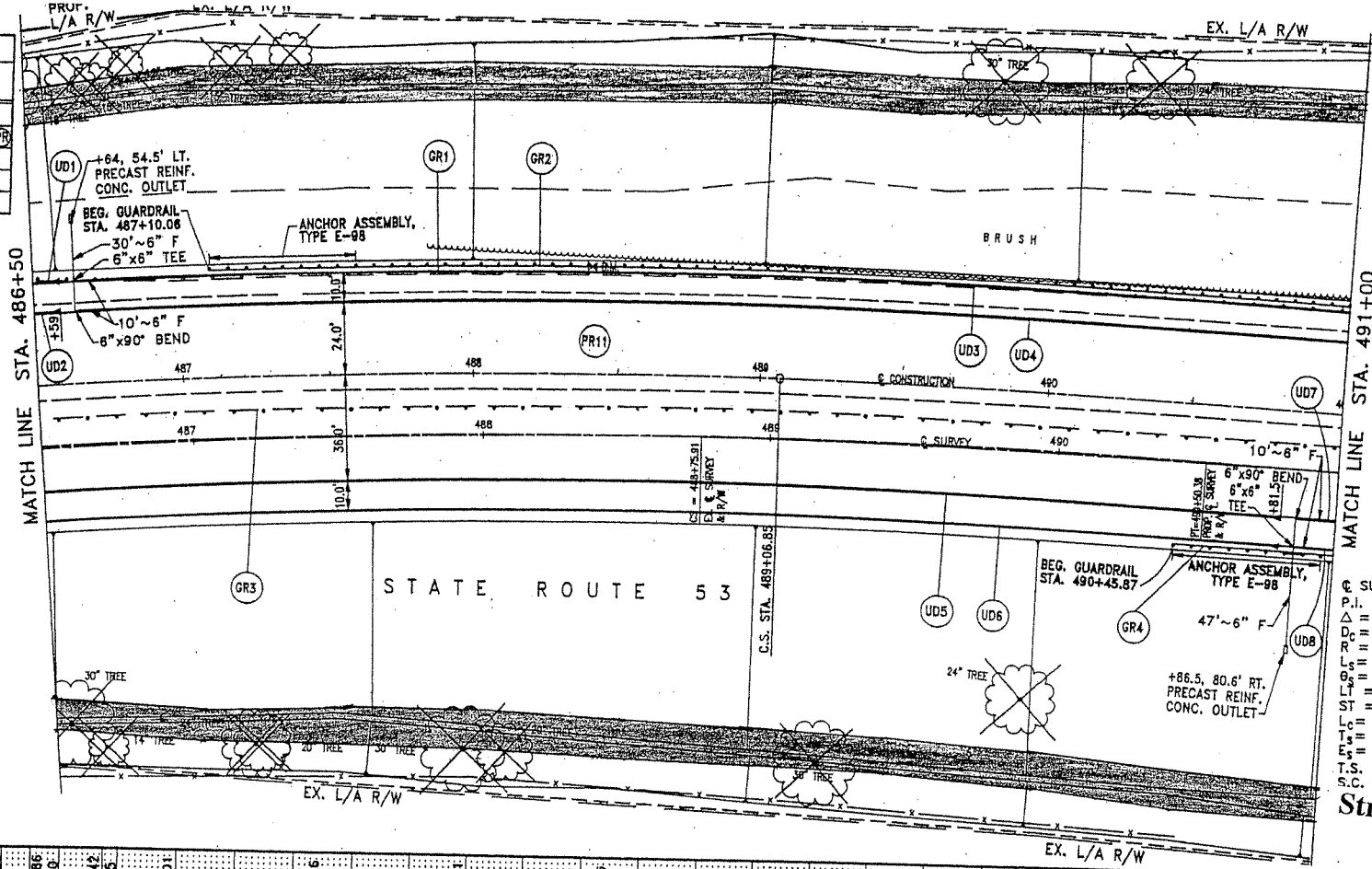
107/394

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

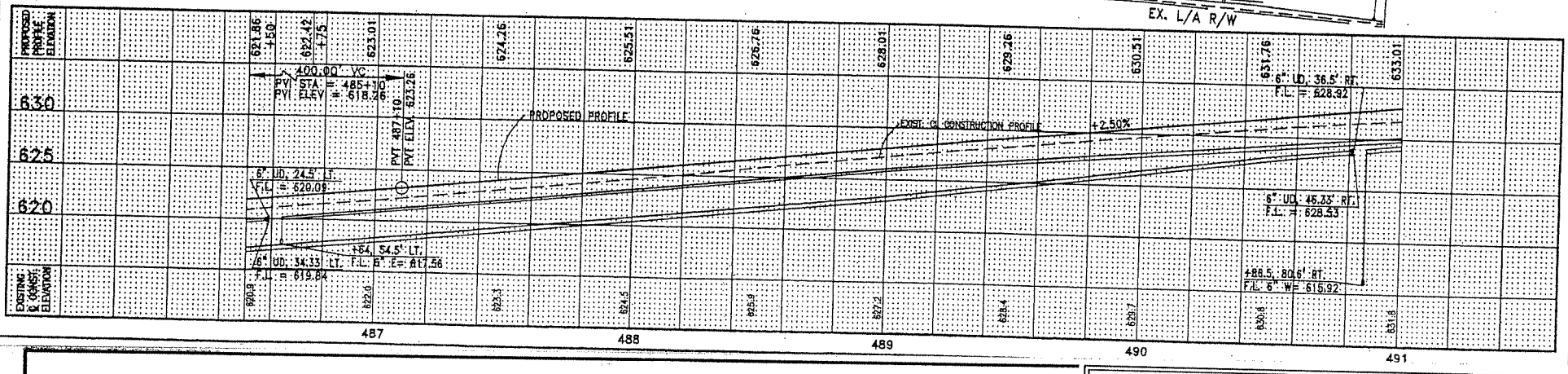
OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 18 of 24 STREAM 2 & 3 IMPACTS

CROSS REFERENCES	
SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., PR
85-87	UNDERDRAIN QUANT., UD
87A	GUARDRAIL QUANT., GR
349	FENCE WORK



℄ CONSTRUCTION CURVE DATA
P.I. = STA. 485+13.26
Δ = 20°46'49" RT.
D_C = 2°00'00"
R = 2864.79
L_S = 240.00'
θ_S = 2°24'00"
LT = 160.01'
ST = 80.01'
L_C = 799.01'
T_S = 645.42'
E_S = 48.61'
e_{max} = 0.045
T.S. = STA. 478+67.84
S.C. = STA. 481+07.84
C.S. = STA. 489+06.85
S.T. = STA. 491+46.85

℄ SURVEY CURVE DATA
P.I. = STA. 485+12.39
Δ = 20°46'49" RT.
D_C = 2°00'00"
R = 2864.79
L_S = 300.00'
θ_S = 3°00'00"
LT = 200.03'
ST = 100.03'
L_C = 739.02'
T_S = 675.50'
E_S = 49.09'
T.S. = STA. 478+36.89
S.C. = STA. 481+36.89
C.S. = STA. 489+75.91
S.T. = STA. 491+75.91



PLAN AND PROFILE
STA. 486+50 TO STA. 491+00

SAN-53-10.15

108
394

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 19 of 24 STREAM 2 & 3 IMPACTS

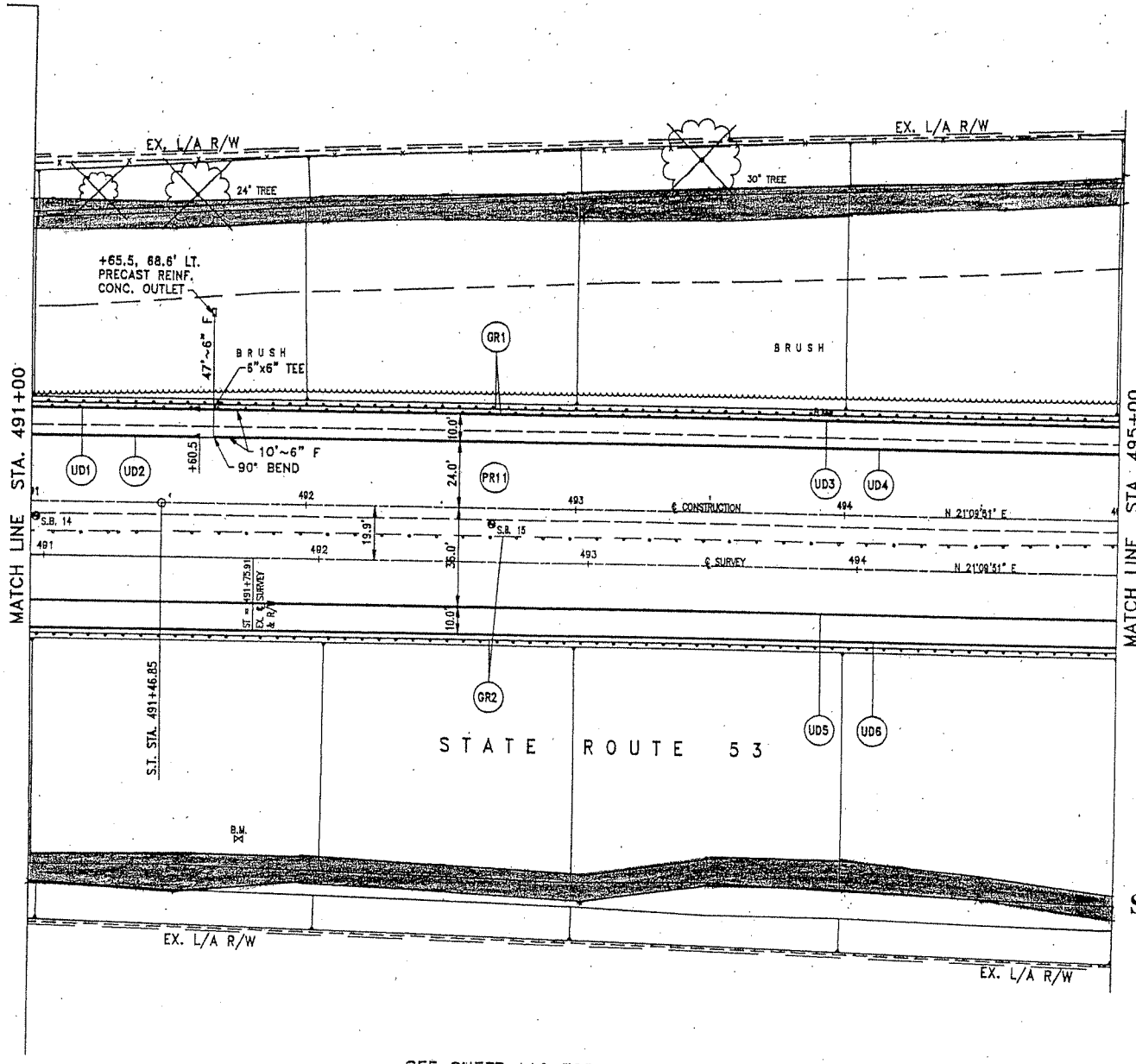
1/2" IRON ROD ON EAST SIDE OF S.R. 53
STA. 491+77, 121' RT.
ELEVATION = 812.02

SITE BENCH MARK 12
1/2" IRON ROD ON WEST SIDE OF S.R. 53 2' ± FROM GUARDRAIL AND 150' ± SOUTH OF RAILROAD BRIDGE
STA. 493+95, 37' LT.
ELEVATION = 835.81

HORIZONTAL SCALE IN FEET 0 20 40

CROSS REFERENCES	
SEE	
	QUANT.
75	PAVEMENT REMOVAL QUANT., PR
85-87	UNDERDRAIN QUANT., UD
87A	GUARDRAIL QUANT., GR
349	FENCE WORK

CALCULATED E.G.T. CHECKED THY



Stream 2

Stream 3

℄ CONSTRUCTION CURVE DATA
P.I. = STA. 485+13.26
Δ = 20°46'49" RT.
D_C = 2°00'00"
R = 2864.79
L_S = 240.00'
θ_S = 2°24'00"
LT = 160.01'
ST = 80.01'
L_C = 799.01'
T_S = 645.42'
E_S = 48.61'
e_{max} = 0.045
T.S. = STA. 478+67.84
S.C. = STA. 481+07.84
C.S. = STA. 489+06.85
S.T. = STA. 491+46.85

℄ SURVEY CURVE DATA
P.I. = STA. 485+12.39
Δ = 20°46'49" RT.
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ST = 100.03'
L_C = 739.02'
T_S = 675.50'
E_S = 49.09'
T.S. = STA. 478+36.89
S.C. = STA. 481+36.89
C.S. = STA. 488+75.91
S.T. = STA. 491+75.91

SEE SHEET 110 FOR PROFILE

PLAN
STA. 491+00 TO STA. 495+00

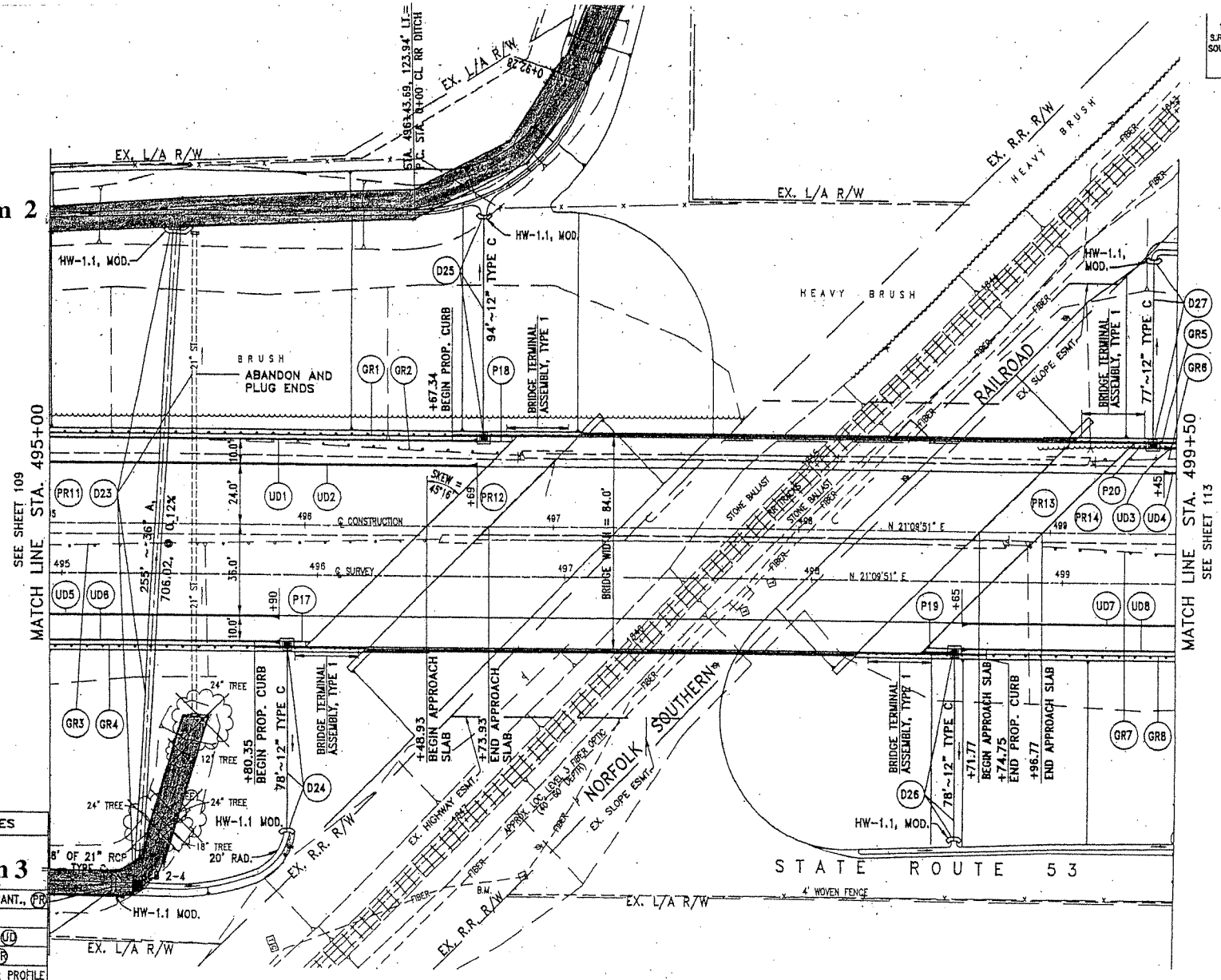
SAN-53-10.15

109
394

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 20 of 24 STREAM 2 & 3 IMPACTS



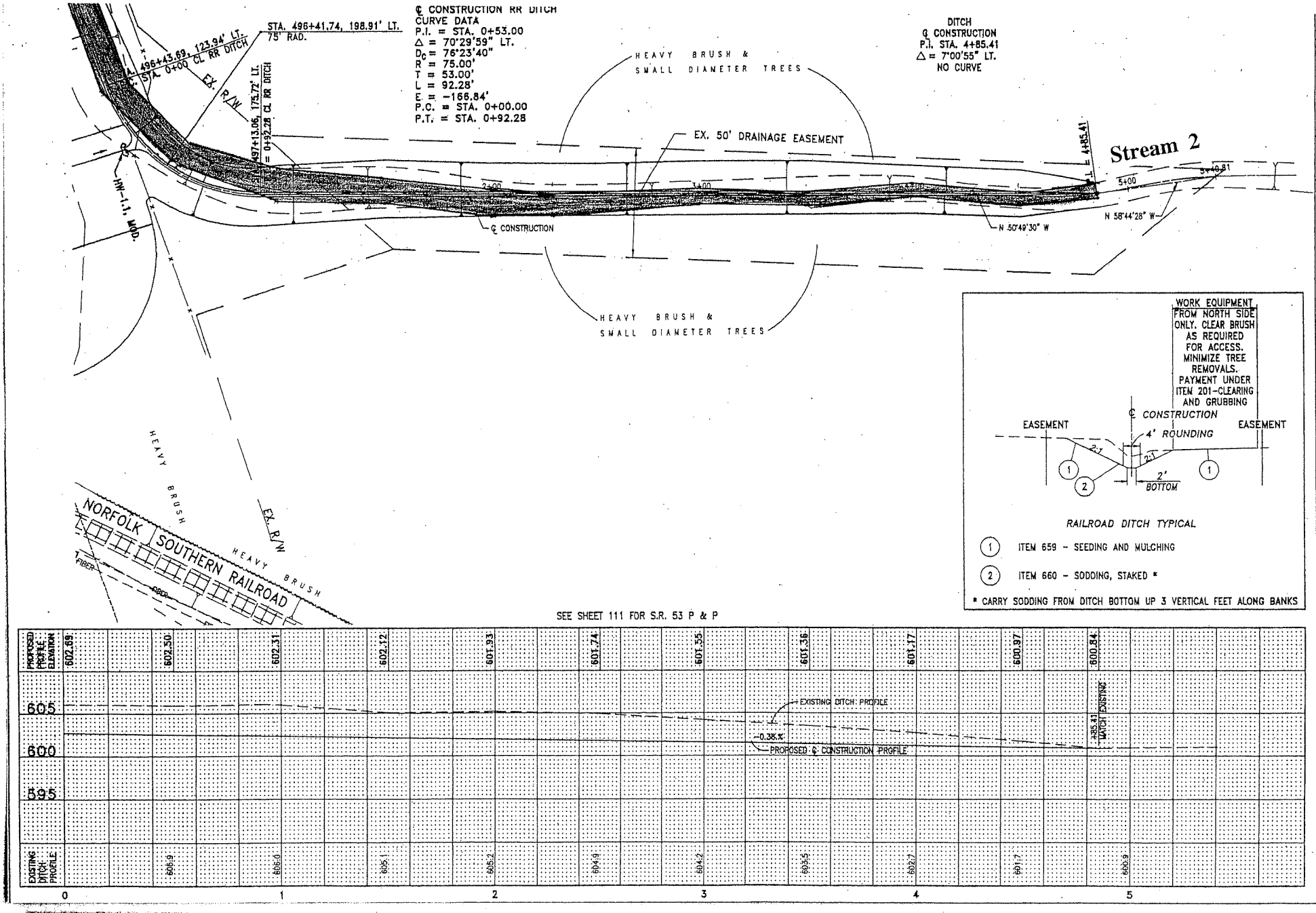
CROSS REFERENCES	
SEE SHEET	FOR:
71-74	PAVEMENT QUANT.
75	PAVEMENT REMOVAL QUANT., (PR)
83-84	DRAINAGE QUANT., (D)
85-87	UNDERDRAIN QUANT., (UD)
87A	GUARDRAIL QUANT., (GR)
186	RAILROAD DITCH PLAN & PROFILE
235	CULVERT DETAIL
237	HW-1.1, MODIFIED DETAILS
302	BRIDGE PLAN

SEE SHEET 112 FOR PROFILE

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 21 of 24 STREAM 2 & 3 IMPACTS

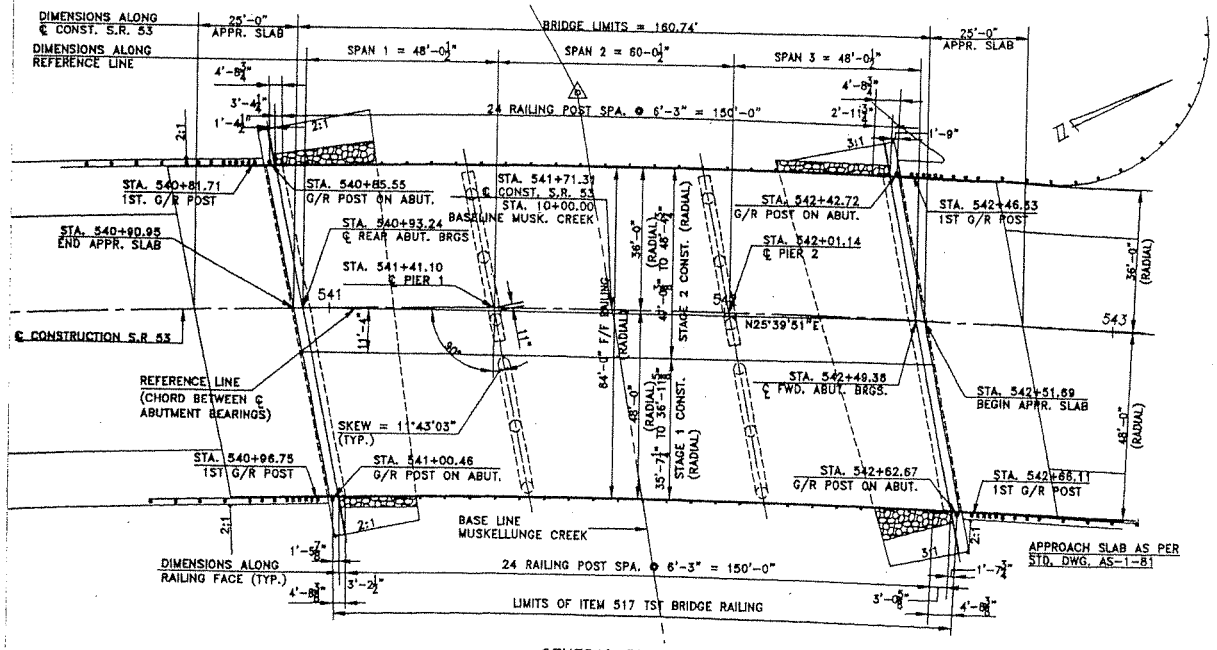


PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 22 of 24 STREAM 2 IMPACTS

Muskellunge Creek



GENERAL PLAN

WORK NOTES

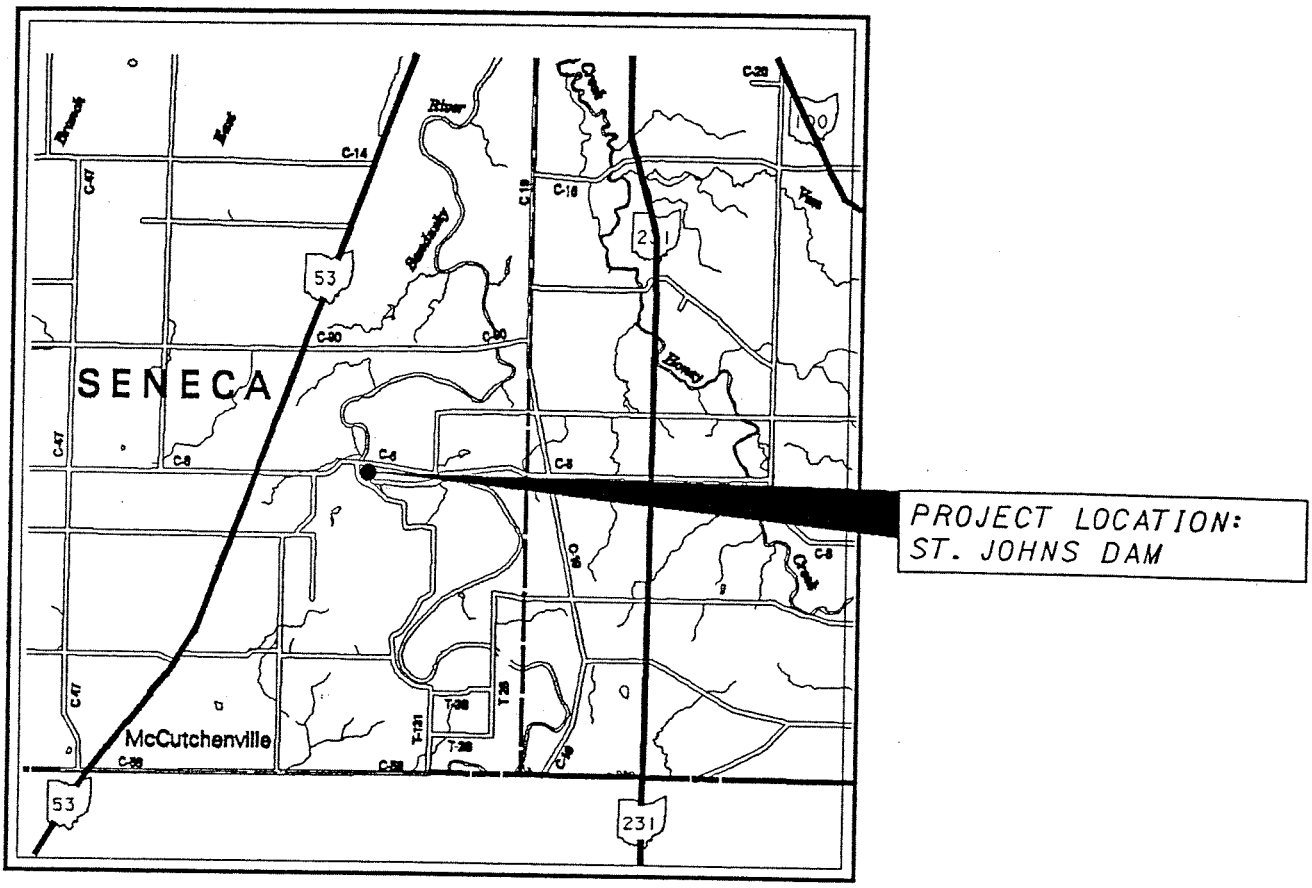
1. REPLACE AND WIDEN CONCRETE DECK. PROVIDE COMPOSITE DECK DESIGN WITH TWIN STEEL TUBE RAILINGS.
2. REUSE EXISTING STEEL BEAMS.
3. PROVIDE FIVE NEW LINES OF STEEL BEAMS FOR WIDENING.
4. REPLACE EXISTING CROSSFRAMES.
5. REPLACE EXISTING BEARINGS WITH ELASTOMERIC BEARINGS AT ABUTMENTS AND AT PIERS.
6. PROVIDE NEW FULL-WIDTH , 25-FOOT LONG APPROACH SLABS.
7. REPAIR AND PAINT EXISTING STEEL BEAMS.
8. PAINT NEW STEEL BEAMS.
9. MODIFY EXISTING ABUTMENTS TO SEMI-INTEGRAL TYPE.
10. EXTEND EXISTING MODIFIED ABUTMENTS WITH NEW SEMI-INTEGRAL ABUTMENTS FOR WIDENING.
11. PROVIDE NEW POROUS BACKFILL AND PIPE DRAINAGE BEHIND ABUTMENTS.
12. EXTEND EXISTING PIERS WITH NEW COLUMNS AND FOOTINGS. PROVIDE NEW PIER CAP FULL LENGTH OF PIER.
13. PROVIDE NEW ROCK CHANNEL SLOPE PROTECTION AT ABUTMENTS.
14. CONCRETE REPAIR ABUTMENTS BY EPOXY INJECTION.
15. EPOXY-URETHANE SEAL EDGES OF DECK, PIERS, AND ABUTMENTS.

PROJECT PLAN SHEETS

Ohio Department of Transportation
SR 53 in Sandusky County, Ohio
SAN-53-10.15 (PID 9443)

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sh. 23 of 24 MUSKELLUNGE CREEK IMPACTS

Proposed stream mitigation location



LOCATION MAP

LATITUDE: 41°01'50" LONGITUDE: 83°13'00"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED_____

INTERSTATE & DIVIDED HIGHWAY_____

UNDIVIDED STATE & FEDERAL ROUTES_____

OTHER ROADS_____

OHIO DEPARTMENT OF TRANSPORTATION
SAN-53-10.15 PID 9443
D/A Processing No. 2004-00953(1)
Sandusky County, Ohio Quad: FREMONT EAST
Sheet 24 of 24 STREAM MITIGATION SITE