PROJECT	DESIGNATION
PB–10–0008	0500908
CONTRACT	BRIDGE FILE
*	HAMILTON 147

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
HAMILTON 147	PRECAST REINFORCED CONCRETE 3 SIDED STRUCTURE	1 SPAN 48'–0" SKEW 20°	COOL CREEK	14+16 "PR–1"

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

FOR SPANS OVER 20 FEET ON 161ST. STREET

HCHD PROJECT NO. PB–10–0008 CONST.

BRIDGE REPLACEMENT OF EXISTING STRUCTURE HAMILTON 147 ON 161st. STREET OVER COOL CREEK LOCATED APPROXIMATELY 0.1 MILE EAST OF WESTFIELD BOULEVARD IN SECTION 7, T–18–N R–4–E, WASHINGTON TOWNSHIP, HAMILTON COUNTY, INDIANA

TRAFFIC DATA	
A.A.D.T. 2017	9200 V.P.D.
A.A.D.T. 2027	13800 V.P.D.
D.H.V. 30	1380 V.P.H.
DIRECTIONAL DISTRIBUTION	50 %
TRUCKS	5 % A.A.D.T.
	* % D.H.V.

DESIGN DATA	
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON–FREEWAY)
FUNCTIONAL CLASSIFICATION	COLLECTOR ROAD
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	NONE

LATITUDE : 40°, 01', 19.40"N LONGITUDE : 86°, 07', 34.57"W

BRIDGE LENGTH :	0.0091 MI.
ROADWAY LENGTH :	0.1345 MI.
TOTAL LENGTH :	0.1436 MI.
MAX. GRADE :	+2.98%

APPROVED BY
HAMILTON COUNTY BOARD OF COMMISSIONERS

STEVEN A. HOLT, PRESIDENT

STEVEN C. DILLINGER

CHRISTINE ALTMAN

ATTEST DATE

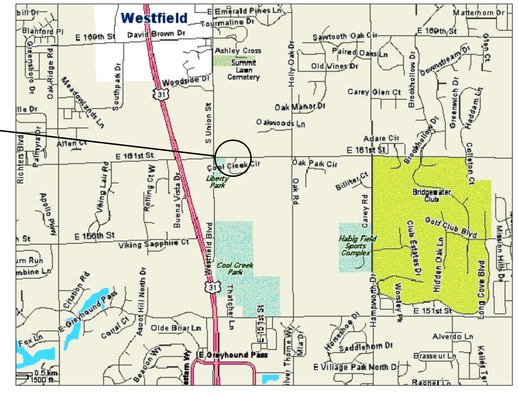
DAWN COVERDALE, COUNTY AUDITOR

RECOMMENDED FOR APPROVAL
DATE

JAMES NEAL, COUNTY ENGINEER

HAMILTON CO. BRIDGE NO. 147
BEGIN PROJECT STA. 10+92 "A"
END PROJECT STA. 18+50 "A"

R–4–E



T–18–N

Not To Scale

HAMILTON COUNTY LOCATION MAP

NOT FOR CONSTRUCTION

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2010
TO BE USED WITH THESE PLANS

FEBA CONSULTING ENGINEERS
Floyd E. Burroughs & Associates Inc.
1108 South 9th Street
Noblesville, Indiana 46060
PHONE: (317) 849–9722
TOLL FREE: (866) 359–6800
FAX: (317) 849–9475

FEDERAL HIGHWAY ADMINISTRATION
U.S.DEPT. OF TRANSPORTATION
CERTIFIED BY: DATE

PLANS
PREPARED BY: Floyd E. Burroughs & Associates, Inc. (317)849–9722
PHONE NUMBER
CERTIFIED BY: DATE
APPROVED
FOR LETTING: DATE

BRIDGE FILE
HAMILTON 147
DESIGNATION
0500908

SHEETS		
1	of	29

CONTRACT	PROJECT
*	PB–10–0008

FILE: 01–2006–05 Title Sheet

2006–05

UTILITIES

WATER AND SEWER: City of Westfield
2706 E. 171st Street
Westfield, IN 46074
(317) 804–3140
Attn: Pete White
pwhite@westfield.in.gov

POWER: Duke Energy Indiana, Inc.
1619 W. Defenbaugh
Kokomo, IN 46902
(317) 375–2071
(317) 402–4725 Cell
Attn: Jim Shields
connie.maus@duke–energy.com

TELEPHONE: Frontier North, Inc. (Formerly Verizon North)
8001 W. Jefferson Blvd.
Fort Wayne, IN 46804
Attn: Joan Timm
(260) 461–2258
(260) 433–5949 Cell
joan.timm@ftr.com

CABLE: Bright House Networks Indianapolis
3030 Roosevelt Ave.
Indianapolis, IN 46218
Attn: Jason Kirkman
(317)632–9077 (Ext. 258)
jason.kirkman@mybrighthouse.com

CABLE: Comcast
5330 E. 65th St.
Indianapolis, IN 46220
Attn: Matt Stringer
(317) 774–3384
matthew_stringer@cable.comcast.com

REVISIONS

DATE	SHEET NO.

INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	INDEX SHEET
3	TYPICAL SECTIONS
4	TRAFFIC MAINTENANCE
5	EROSION CONTROL
6–10	SOIL BORINGS
	ROAD PLAN AND PROFILE
	ROWLAND PROPERTY DRIVEWAY DETAILS
	LAYOUT
	GENERAL PLAN
	WATERLINE PLAN AND PROFILE
	MISCELLANEOUS TABLES
	CROSS SECTIONS

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

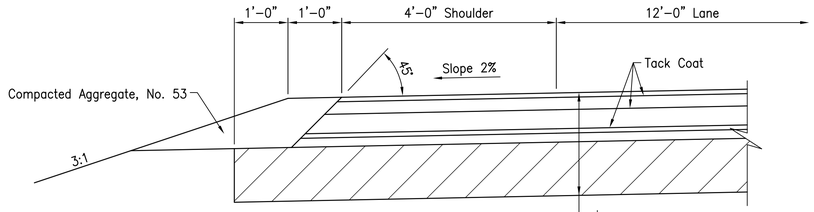
DESIGNED: JES DRAWN: JES
CHECKED: JPM CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET
161st ST. OVER COOL CREEK

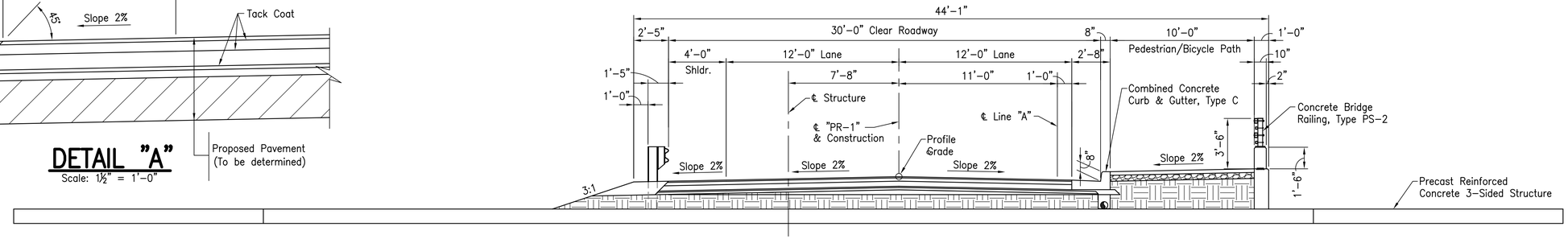
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HAMILTON 147
VERTICAL SCALE	DESIGNATION
N/A	0500908
SURVEY BOOK	SHEETS
	2 of 29
CONTRACT	PROJECT
	PB–10–0008

File: 02–2006–05–Index



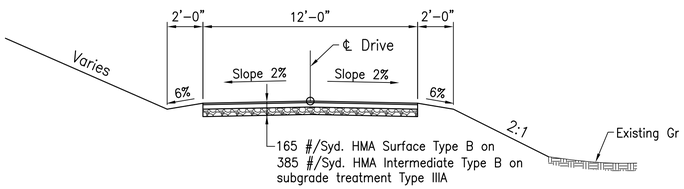
DETAIL "A"

Scale: 1½" = 1'-0"



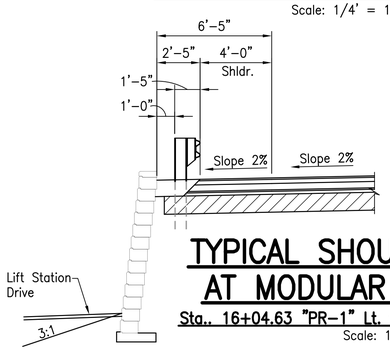
TYPICAL CROSS SECTION THRU BRIDGE (LOOKING EAST)

Scale: 1/4" = 1'-0



TYPICAL DRIVEWAY SECTION

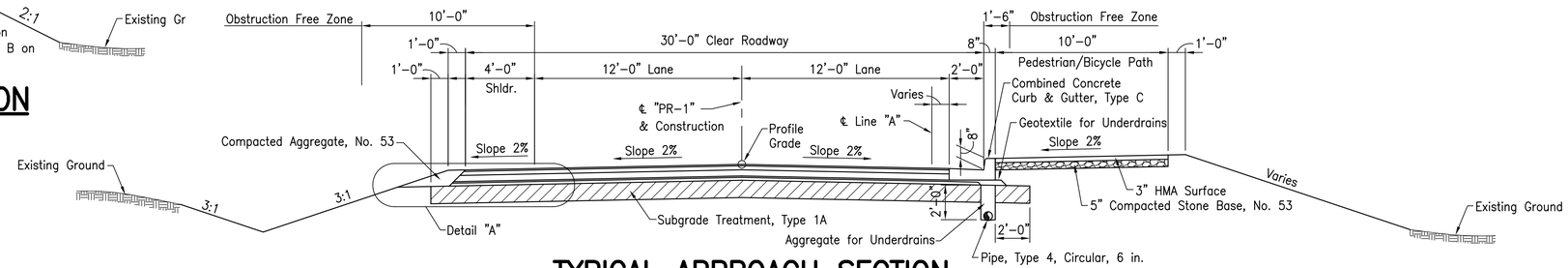
Scale: 1/4' = 1'-0



TYPICAL SHOULDER SECTION AT MODULAR BLOCK WALL

Sta., 16+04.63 "PR-1" Lt. to Sta. 16+88.91 "PR-1" Lt.

Scale: 1/4' = 1'-0



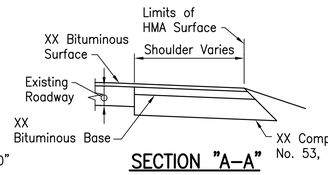
CUT SECTION

TYPICAL APPROACH SECTION

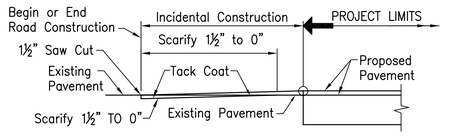
Sta. 10+92.00 "PR-1" to Sta. 19+00.00 "PR-1"

Scale: 1/4' = 1'-0

FILL SECTION

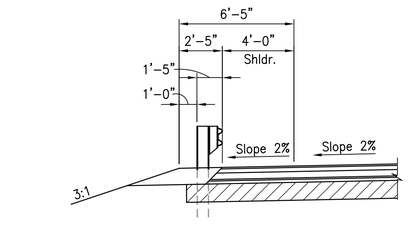


SECTION "A-A"



Scarifying shall be paid for as "Milling, Transition" per Sq. Yd.
Tack Coat shall be paid for as "Asphalt For Tack Coat" per Sq. Yd.

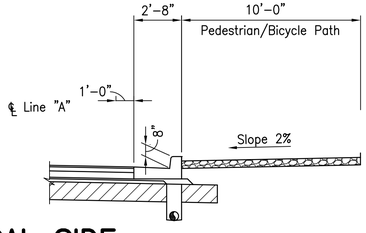
SECTION "B-B"



TYPICAL SHOULDER SECTION AT GUARDRAIL

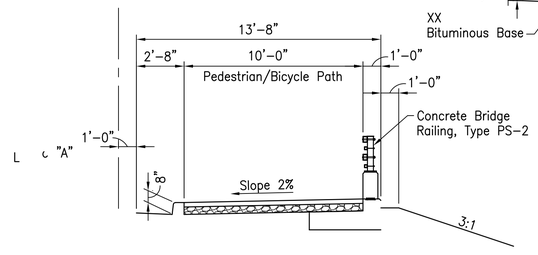
Sta., 12+57.75 "PR-1" Lt. to Sta. 13+64.00 "PR-1" Lt.
Sta., 14+56.00 "PR-1" Lt. to Sta. 17+87.25 "PR-1" Lt.

Scale: 1/4' = 1'-0



TYPICAL SIDE AT RETAINING WALL

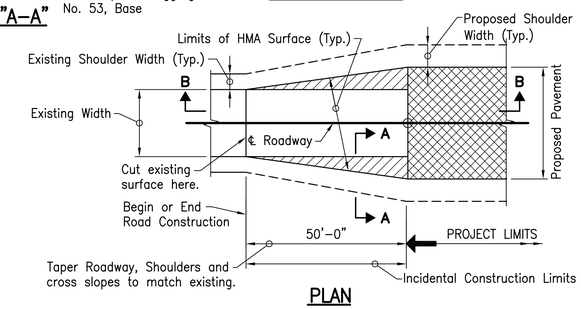
Scale: 1/4' = 1'-0



TYPICAL PATH SECTION AT RAILING TYPE PS-2

Sta., 13+24.52 "PR-1" Rt. to Sta. 15+15.16 "PR-1" Rt.

Scale: 1/4' = 1'-0



PLAN

INCIDENTAL CONSTRUCTION DETAIL

Not to Scale

NOT FOR CONSTRUCTION

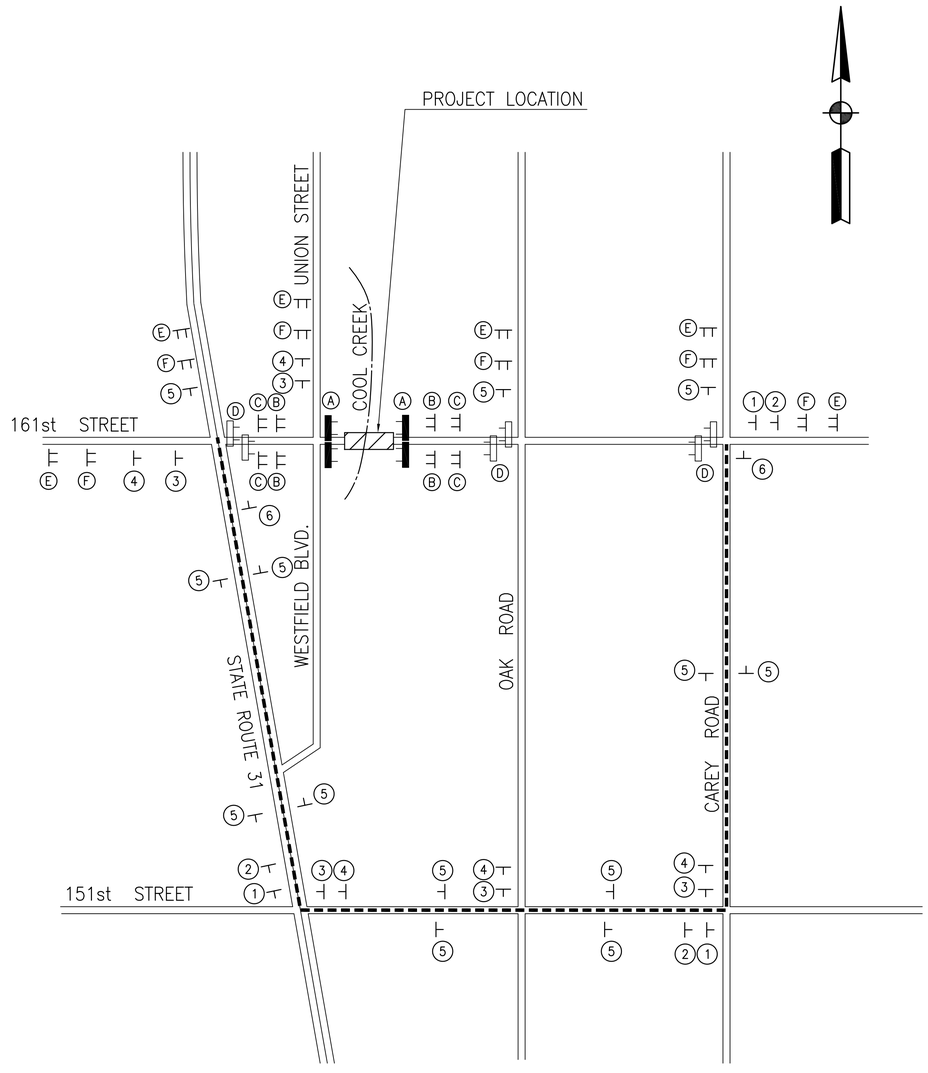
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JES	DRAWN: JES	
CHECKED: JPM	CHECKED: FF	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
161st ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HAMILTON 147
VERTICAL SCALE	DESIGNATION
N/A	0500908
SURVEY BOOK	SHEETS
*	3 of 29
CONTRACT	PROJECT
	PB-10-0008

File: 03-2006-05 Typical Section.dwg



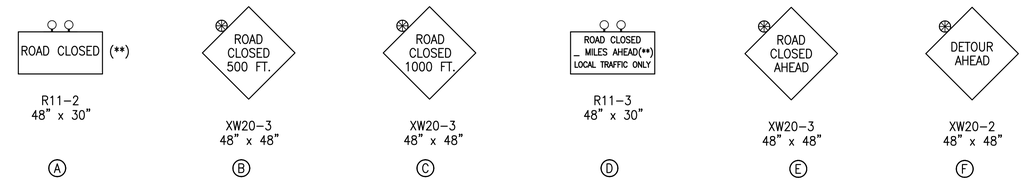
DETAIL PLAN

Not to Scale

DETOUR ROUTE MARKER ASSEMBLIES *

① DETOUR XM4-8 24" x 12" 161ST STREET M3-4(S) 48" x 12" M6-1(S) 21" x 15"	② DETOUR XM4-8 24" x 12" 161ST STREET M3-4(S) 48" x 12" M5-1(L)(S) 15" x 21"	③ DETOUR XM4-8 24" x 12" 161ST STREET M3-4(S) 48" x 12" M6-1(S) 21" x 15"	④ DETOUR XM4-8 24" x 12" 161ST STREET M3-4(S) 48" x 12" M5-1(R)(S) 15" x 21"
⑤ DETOUR XM4-8 24" x 12" 161ST STREET M3-4(S) 48" x 12" M6-3(S) 21" x 15"	⑥ END DETOUR XM4-8a 24" x 18" 161ST STREET M3-4(S) 48" x 12"		

* TO BE PAID FOR AS "DETOUR ROUTE MARKER ASSEMBLY", EACH.



LEGEND

(**)	Indicates Signs To Be Paid For As "Road Closure Sign Assembly".
	Detour Route Marker Assembly
	Standard Barricade Type III-A
	Standard Barricade Type III-B
	Type "A" Construction Warning Light
	Typical Sign Standard
	Type "B" Construction Warning Lights
	Detour Route
	Construction Area

ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL
Maintaining Traffic	LSum	1
Construction Sign Type A	Each	25
Detour Route Marker Assembly	Each	31
Standard Barricade Type III-A	Lft.	40
Standard Barricade Type III-B	Lft.	60
Road Closure Sign Assembly	Each	2

NOTE: CONTRACTOR TO PROVIDE TRAFFIC ACCESS TO COOL CREEK CIRCLE HOME ADDITION.

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

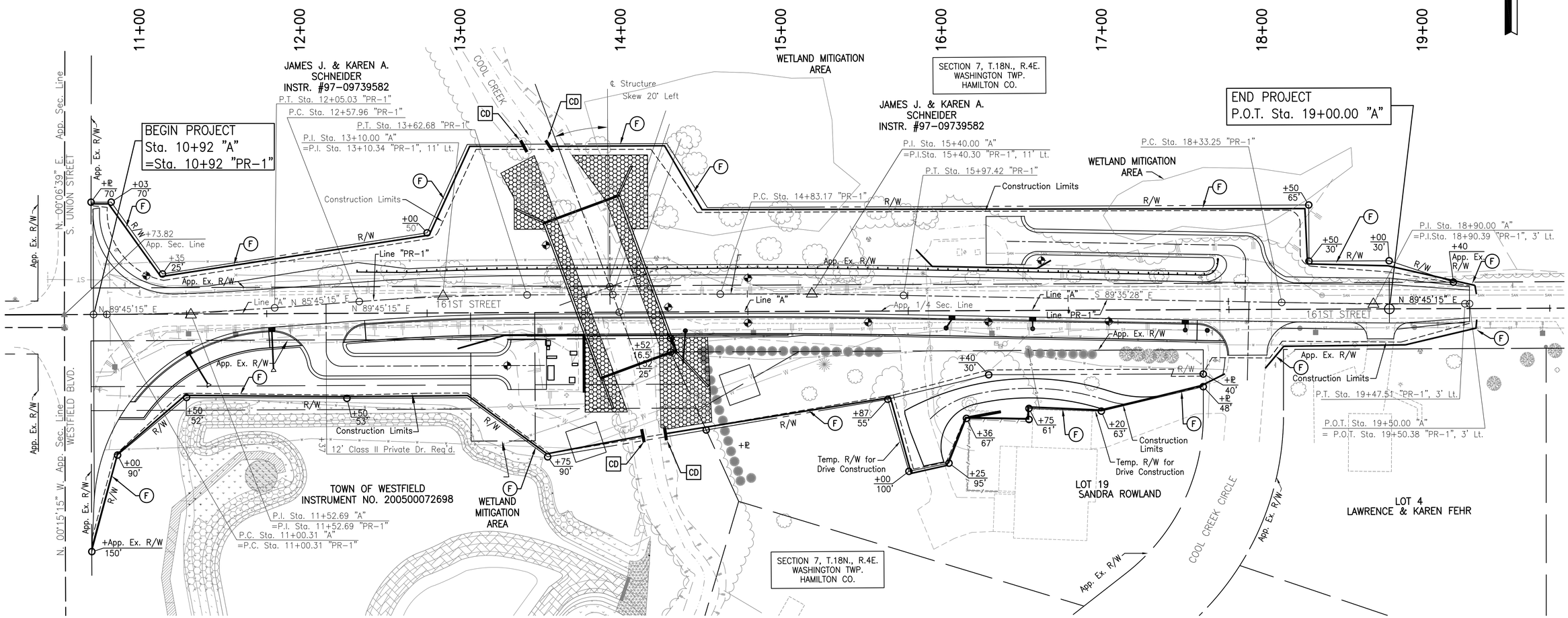
DESIGNED: JES DRAWN: JES
CHECKED: JPM CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

TRAFFIC MAINTENANCE
161st ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HAMILTON 147
VERTICAL SCALE	DESIGNATION
N/A	0500908
SURVEY BOOK	SHEETS
*	4 of 29
CONTRACT	PROJECT
	PB-10-0008

File: 04-206-05 Traffic Maintenance.dwg



EROSION CONTROL LEGEND

- CD STRAW BALE CHECK DAM
- F SILT FENCE
- PERMANENT RIPRAP OVER GEOTEXTILES

NOTE: All disturbed areas within R/W to be temporarily seeded.

SITUATION PLAN

SCALE: 1" = 30'-0" CONTOUR INTERVAL = 1'-0"

TEMPORARY EROSION & SEDIMENT CONTROL TABLE

PERIMETER PROTECTION			
STATION TO STATION		LT./RT.	LENGTH
XX+XX	XX+XX	Rt.	XXX
XX+XX	XX+XX	LT.	XXX
XX+XX	XX+XX	RT.	XXX
XX+XX	XX+XX	LT.	XXX
		TOTAL	XXXX

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JES DRAWN: JES

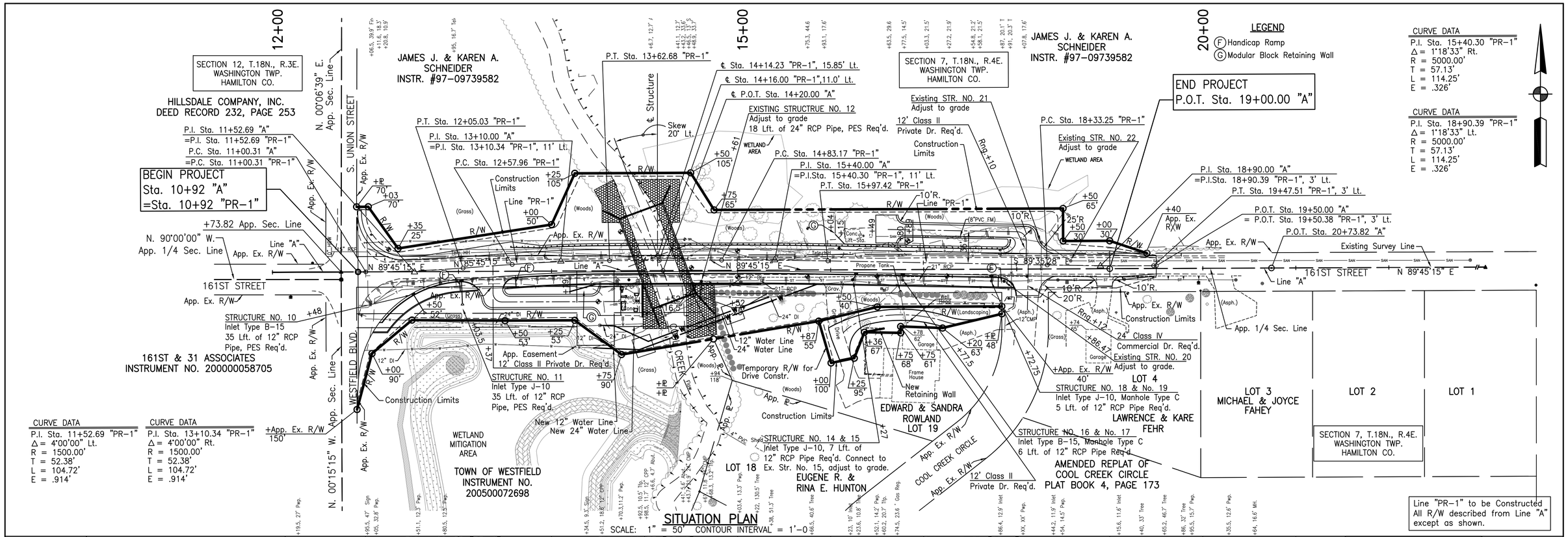
CHECKED: JPM CHECKED: FF

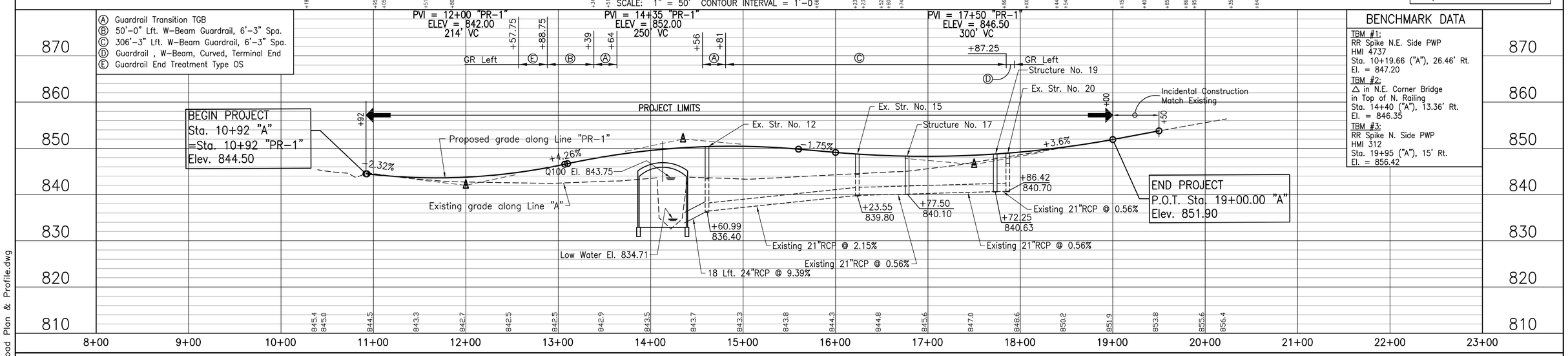
INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL 161st. ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'-0"	HAMILTON 147
VERTICAL SCALE	DESIGNATION
AS NOTED	0500908
SURVEY BOOK	SHEETS
	5 of 29
CONTRACT	PROJECT
	PB-10-0008

File: 05-2006-05-Erosion Control.dwg





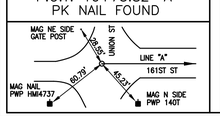
BENCHMARK DATA

TBM #1:
RR Spike N.E. Side PWP
HMI 4737
Sta. 10+19.66 ("A"), 26.46' Rt.
El. = 847.20

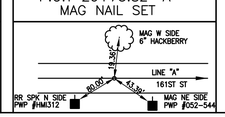
TBM #2:
△ in N.E. Corner Bridge
in Top of N. Railing
Sta. 14+40 ("A"), 13.36' Rt.
El. = 846.35

TBM #3:
RR Spike N. Side PWP
HMI 312
Sta. 19+95 ("A"), 15' Rt.
El. = 856.42

N.=9990.409, E.=10030.733
P.O.T. 10+73.82 "A"
PK NAIL FOUND



N.=9994.704, E.=11030.732
P.O.T 20+73.82 "A"
MAG NAIL SET



NOT FOR CONSTRUCTION

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

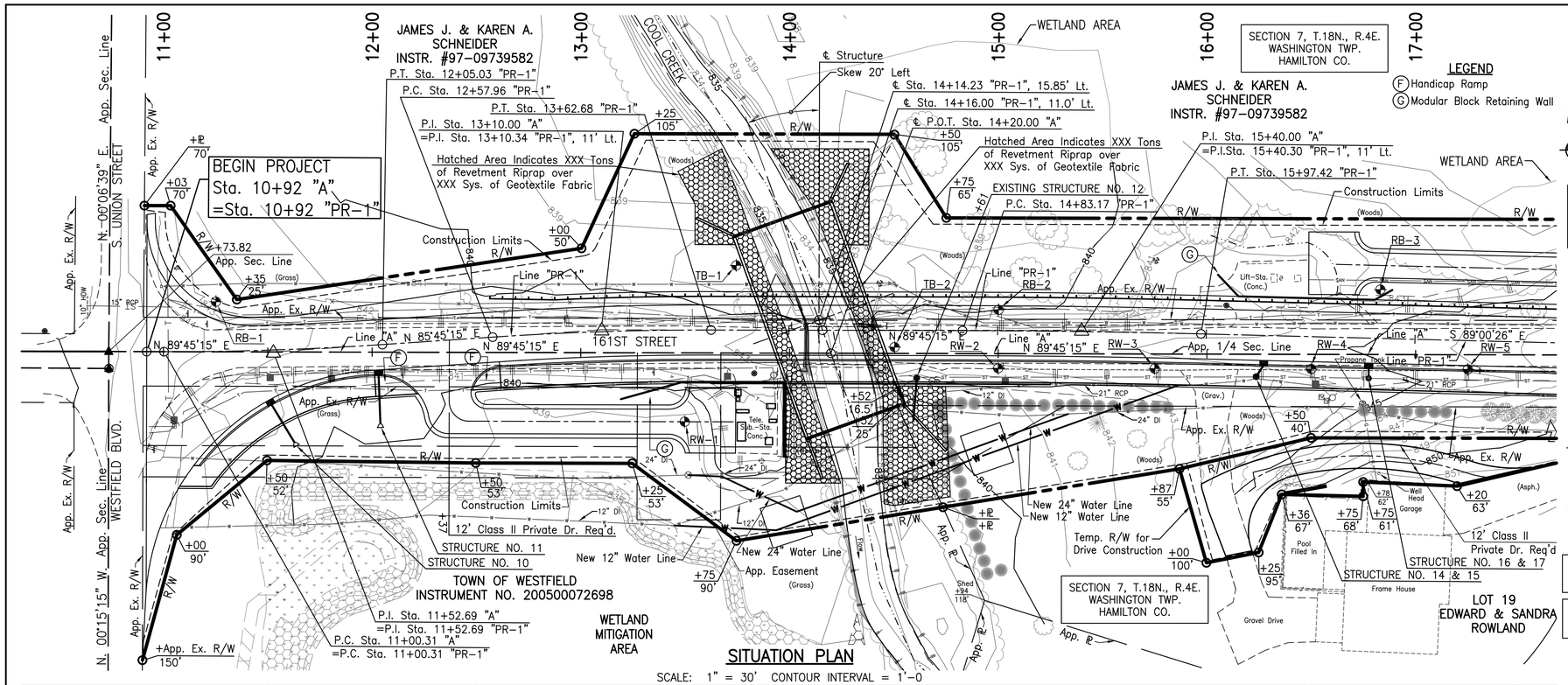
DESIGNED: FF	DRAWN: JES
CHECKED: JPM	CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
161st. ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=10'	0500908
SURVEY BOOK	SHEETS
	15 of 29
CONTRACT	PROJECT
	PB-10-0008

File: 17-2006-05-Road Plan & Profile.dwg



SITUATION PLAN

SCALE: 1" = 30' CONTOUR INTERVAL = 1'-0

CURVE DATA	CURVE DATA	CURVE DATA
P.I. Sta. 11+52.69 "PR-1"	P.I. Sta. 13+10.34 "PR-1"	P.I. Sta. 15+40.30 "PR-1"
Δ = 4°00'00" Lt.	Δ = 4°00'00" Rt.	Δ = 1°18'33" Rt.
R = 1500.00'	R = 1500.00'	R = 5000.00'
T = 52.38'	T = 52.38'	T = 57.13'
L = 104.72'	L = 104.72'	L = 114.25'
E = .914'	E = .914'	E = .326'

PRESENT STRUCTURE

7' Rise x 30.4' Simple Span Concrete Girder on Vertical Abutments.
Existing Structure is to be Removed. Top of Opening El. = 838.91

HYDRAULIC DATA

Drainage Area:	8.80	Sq. Mi.
Q100 Discharge:	2700	cfs.
Q100 Elev.:	843.75	Ft.
Backwater at Q100:	1.66	Ft.
Velocity:	8.65	Ft./Sec.
Waterway Area:	311.00	Sft.
Low Structure Elev.:	845.9	Ft.
Skew	20°	Left
Existing Over Road Flow	1452	cfs.
Proposed Over Road Flow	0	cfs.
Existing Waterway Opening	204	Sft.
Existing Low Structure Elev.:	839.70	Ft.
Existing Backwater:	2.49	Ft.

SPECIAL NOTES:
Existing Propane Tank shall be removed. A temporary tank shall be put into service during construction of the new permenent location of a new tank. Property owner to have uninterupted service during relocation process.

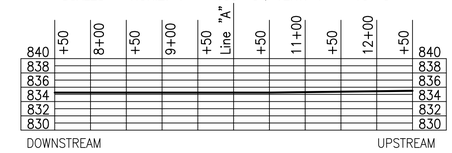
Existing Well Head to be left in place and protected during construction operations of new drive.

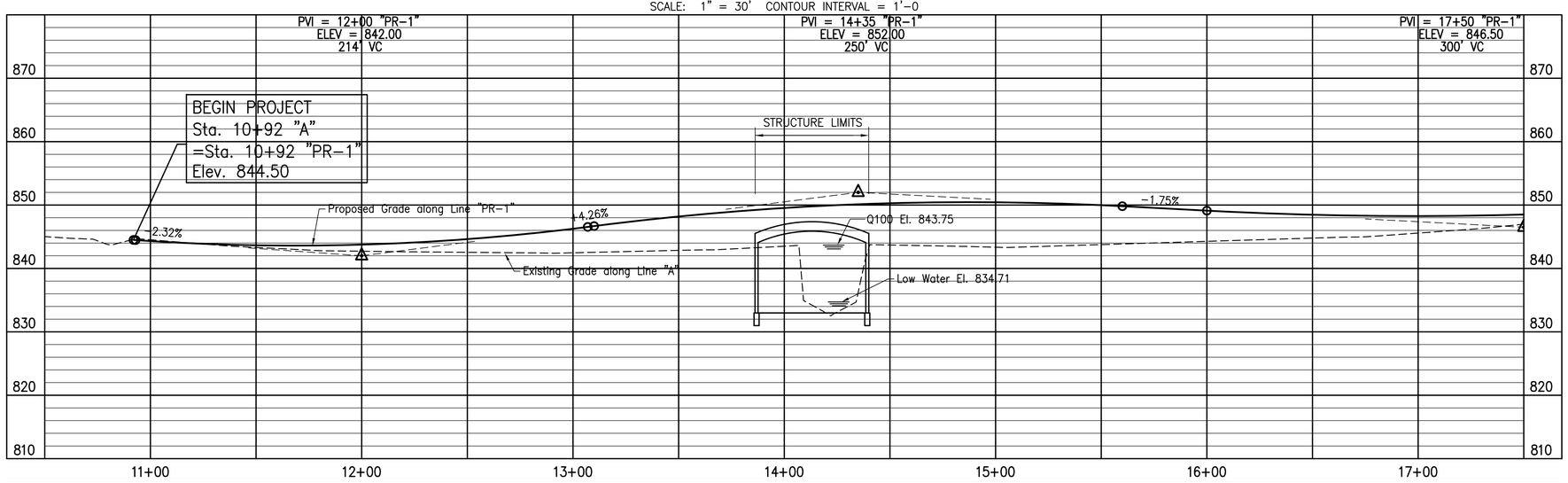
For horizontal references & benchmarks, see sheet No. 14.

Line "PR-1" to be Constructed
All R/W described from Line "A" except as shown.

PROFILE OF STREAM

SCALES = HORIZ. 1" = 100'-0", VERT. 1" = 10'-0"





PROFILE ON PROPOSED ℄ ROADWAY

SCALES: HORIZ. 1" = 30' VERT. 1" = 10'

EARTHWORK SUMMARY

ITEM	QUANTITY
COMMON EXCAVATION	xxx Cys.
WATERWAY EXCAVATION	xxx Cys.
USABLE WATERWAY EXCAVATION (70%)	xxx Cys.
WET EXCAVATION	xx Cys.
FILL +20%	xxxx Cys.
BORROW	xxxx Cys.
*BENCHING	xxx Cys.

* No direct payment.
Benching will not be paid for as common excavation.

PRECAST REINFORCED CONCRETE 3-SIDED STRUCTURE
1 SPAN @ 48'-0; 20° SKEW
26'-0" CLEAR ROADWAY
E. 161ST. STREET OVER COOL CREEK

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

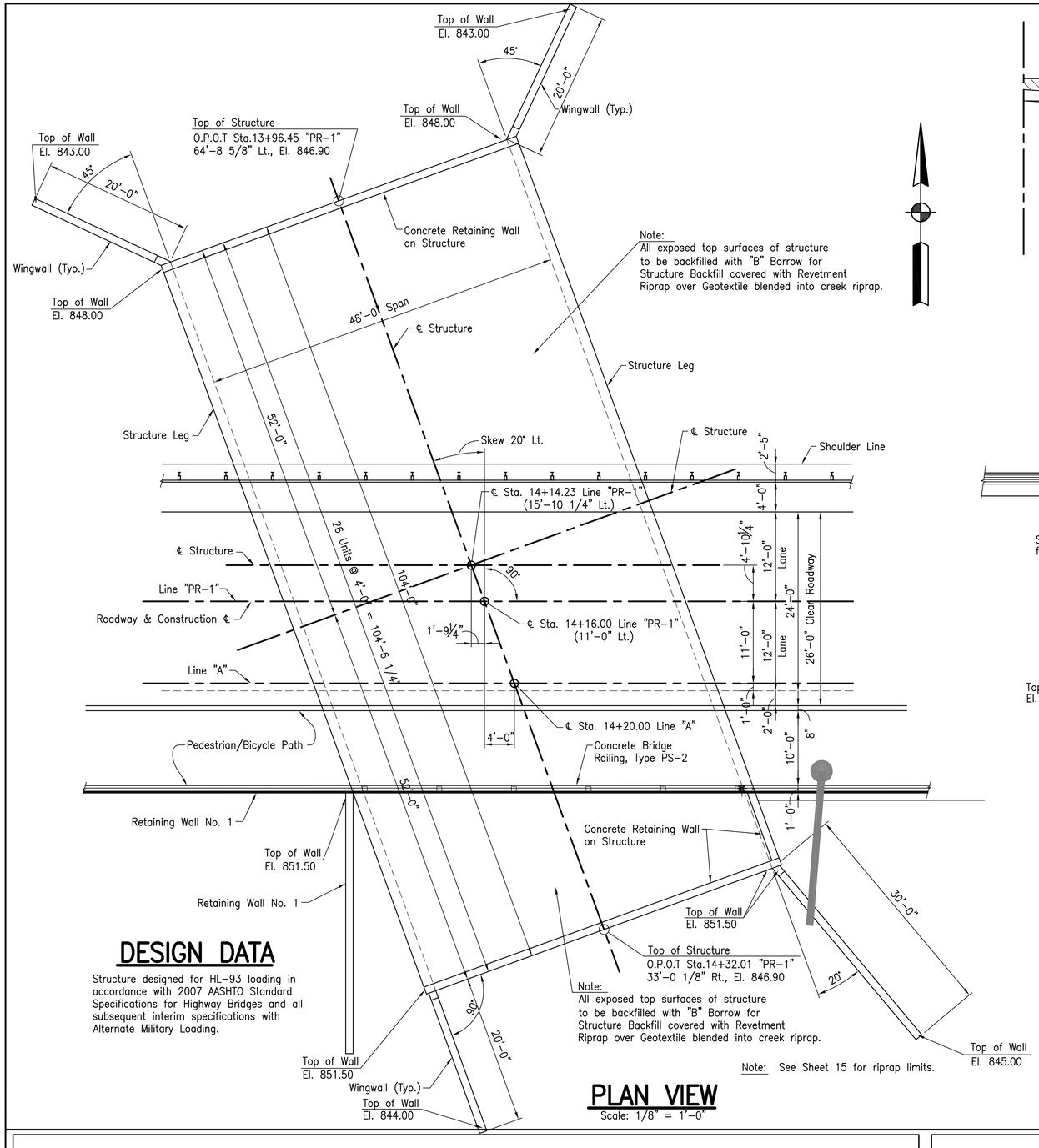
DESIGNED: FF DRAWN: JES
CHECKED: JPM CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
161st ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=10'	0500908
SURVEY BOOK	SHEETS
	17 of 32
CONTRACT	PROJECT
	PB-10-0008

File: 18-2006-05-Layout.dwg



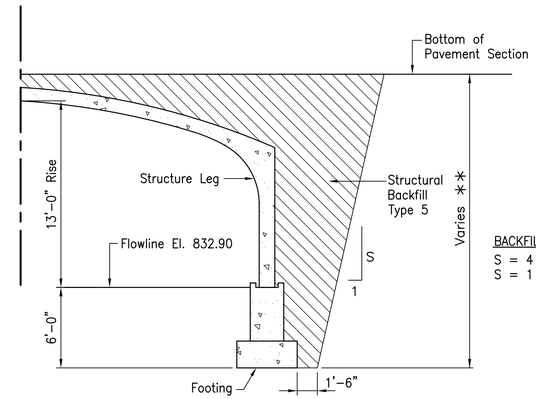
Note: See Sheet 15 for riprap limits.

PLAN VIEW

Scale: 1/8" = 1'-0"

DESIGN DATA

Structure designed for HL-93 loading in accordance with 2007 AASHTO Standard Specifications for Highway Bridges and all subsequent interim specifications with Alternate Military Loading.



TYPICAL EXCAVATION AND BACKFILL LIMITS

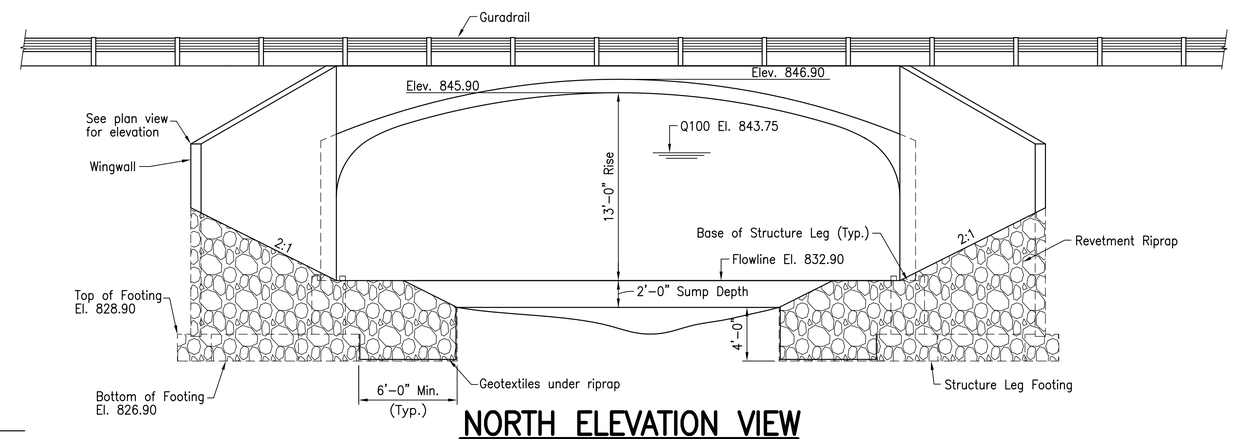
Not to Scale

ASSUMED STRUCTURE ELEVATIONS

TOP OF FOOTING EL. 828.90
BASE OF STRUCTURE LEG EL. 832.90

** = Excavation included in Cost of Structure.

BACKFILL SLOPES
S = 4 @ Structure Leg
S = 1 @ Wingwall



NORTH ELEVATION VIEW

Not to Scale

NOTE:

Structure to be built level.
See Shop Drawings for Construction Details.
As an alternate, a simple span (39'-0") square precast concrete 3-Sided Structure may be substituted for the structure indicated in the layout scheme.

PRECAST REINFORCED CONCRETE 3-SIDED STRUCTURE
1 SPAN @ 48'-0; 20° SKEW
26'-0" CLEAR ROADWAY
E. 161ST. STREET OVER COOL CREEK

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

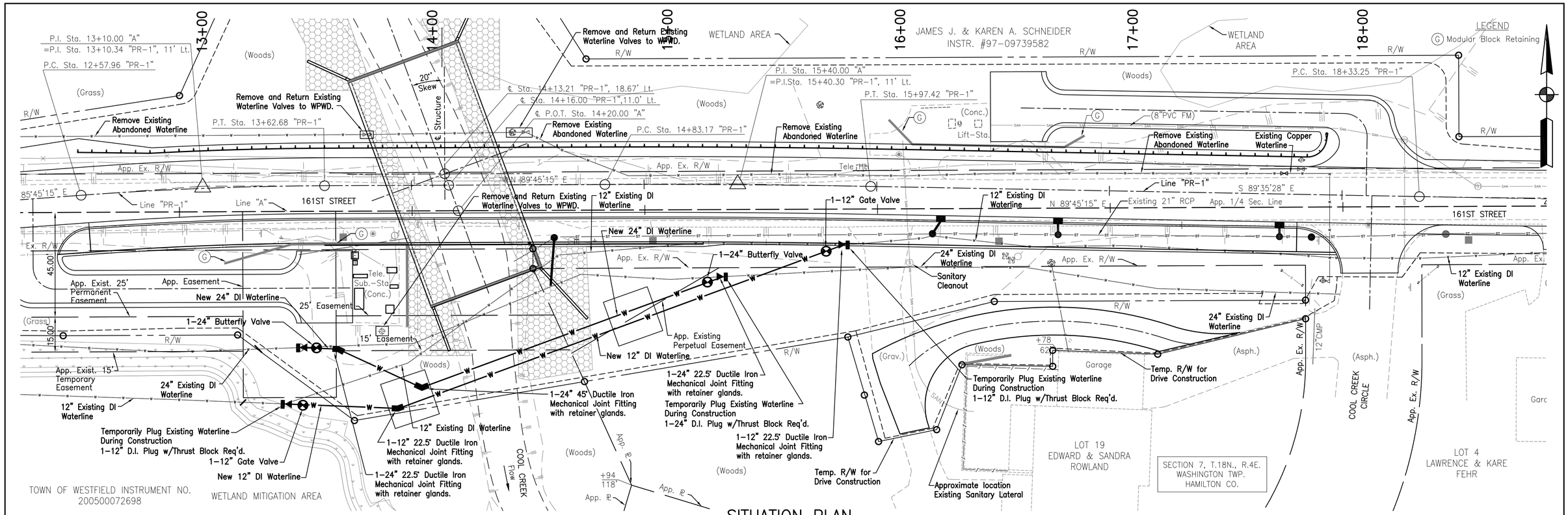
DESIGNED: FF DRAWN: JES
CHECKED: JPM CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
161st. ST. OVER COOL CREEK

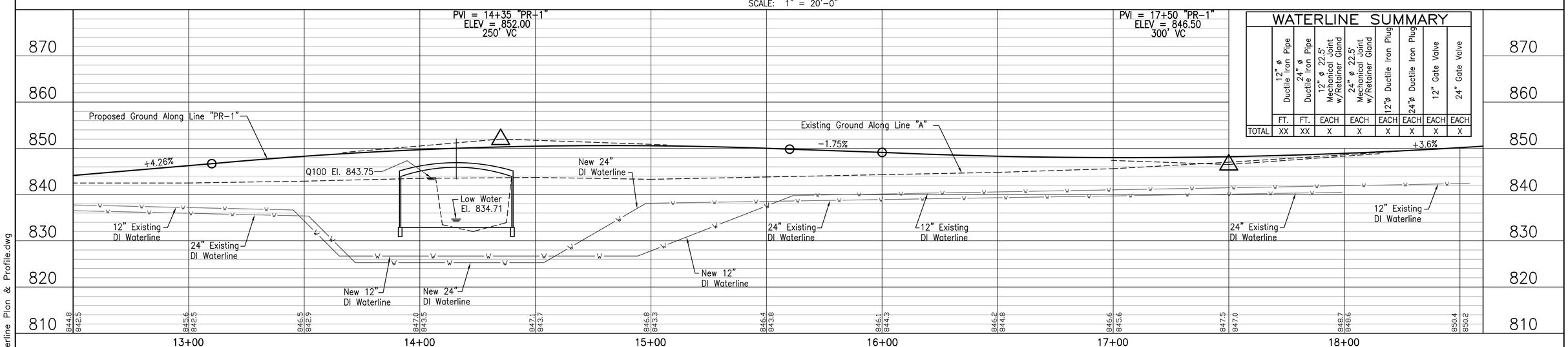
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HAMILTON 147
VERTICAL SCALE	DESIGNATION
AS NOTED	0500908
SURVEY BOOK	SHEETS
	18 of 32
CONTRACT	PROJECT
	PB-10-0008

File: 19-2006-05 General Plan



SITUATION PLAN

SCALE: 1" = 20'-0"



WATERLINE SUMMARY

	12" ø Ductile Iron Pipe	24" ø Ductile Iron Pipe	12" ø 22.5' Mechanical Joint w/Retainer Gland	24" ø 22.5' Mechanical Joint w/Retainer Gland	12"ø Ductile Iron Plug	24"ø Ductile Iron Plug	12" Gate Valve	24" Gate Valve
	FT.	FT.	EACH	EACH	EACH	EACH	EACH	EACH
TOTAL	XX	XX	X	X	X	X	X	X

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JES DRAWN: JES

CHECKED: JPM CHECKED: FF

INDIANA DEPARTMENT OF TRANSPORTATION

WATERLINE PLAN & PROFILE 161st. ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=10'	0500908
SURVEY BOOK	SHEETS
	19 of 32
CONTRACT	PROJECT
	PB-10-0008

File: 20-2006-05-Waterline Plan & Profile.dwg

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE: COMPACTED AGGREGATE BASE	SURFACE BEYOND R/W LINE: HMA	SURFACE BEYOND R/W LINE: CONCRETE	GRADE 1	GRADE 2	EXCAVATION: CUT	EXCAVATION: FILL+20%	HMA MATERIALS (lbs./sys.): Surface, "C" 165	HMA MATERIALS (lbs./sys.): Inter., "C" 495	HMA MATERIALS (lbs./sys.): Base, "C" 660	Asphalt Material For Prime Coat	Asphalt Material For Tack Coat	Compacted Aggregate Base No. 53 8"	Integral Curb	Line, Paint, Solid Yellow, 4 Inch	COMMENTS
		ft.	ft.	ft.	ft.				%	%	Cys.	Cys.	Tons	Tons	Tons	Sys.	Sys.	Tons	Lft.	Lft.	
Totals																					

STRUCTURE DATA

Structure Number	Location: Station	Location: Left	Location: Right	Location: Cross	Size	Pipe Type	Manhole, Inlet, Cath Basin, or Specialty Structure	Length	Skew	Cover	Flow Line: Upstream	Flow Line: Downstream	Service Life	pH	Backfill Method	Structure Backfill Type 5	Revetment Riprap	Geotextiles	Flowable Backfill	Wingwalls	Remarks
								Lft.		Ft.	ELEV.	ELEV.	Yrs.			Cys	Tons	Sys	Cys	Sft.	
1				X			3 Sided Precast Structure														* See General Plan For backfill details.

GUARDRAIL SUMMARY

FROM STATION	TO STATION	LEFT	RIGHT	MEDIAN LEFT	MEDIAN RIGHT	W-BEAM GUARDRAIL: STANDARD POST AT 6'-3" SPA.	W-BEAM GUARDRAIL: NESTED GUARDRAIL	GUARDRAIL END TREATMENT TYPE 1	GUARDRAIL TRANSITION TYPE TGT	GUARDRAIL TERMINAL SYSTEM, W-BEAM CURVED	GUARDRAIL REMOVE
						FT.	FT.	EACH	EACH	EACH	FT.
Line "A"											
		X									
			X								
		X									
			X								
TOTAL											

R/W MARKER SUMMARY

STATION LINE "B"	SIDE	OFFSET (ft.)
	Rt.	
	Lt.	
	Total =	X Each

SODDING SUMMARY TABLE

LOCATION (LINE "A")	GEOTEXTILES (SYS.)	REVETMENT RIPRAP (TON)	NURSERY SODDING (SYS.)
TOTALS			

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JES DRAWN: JES

CHECKED: JPM CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

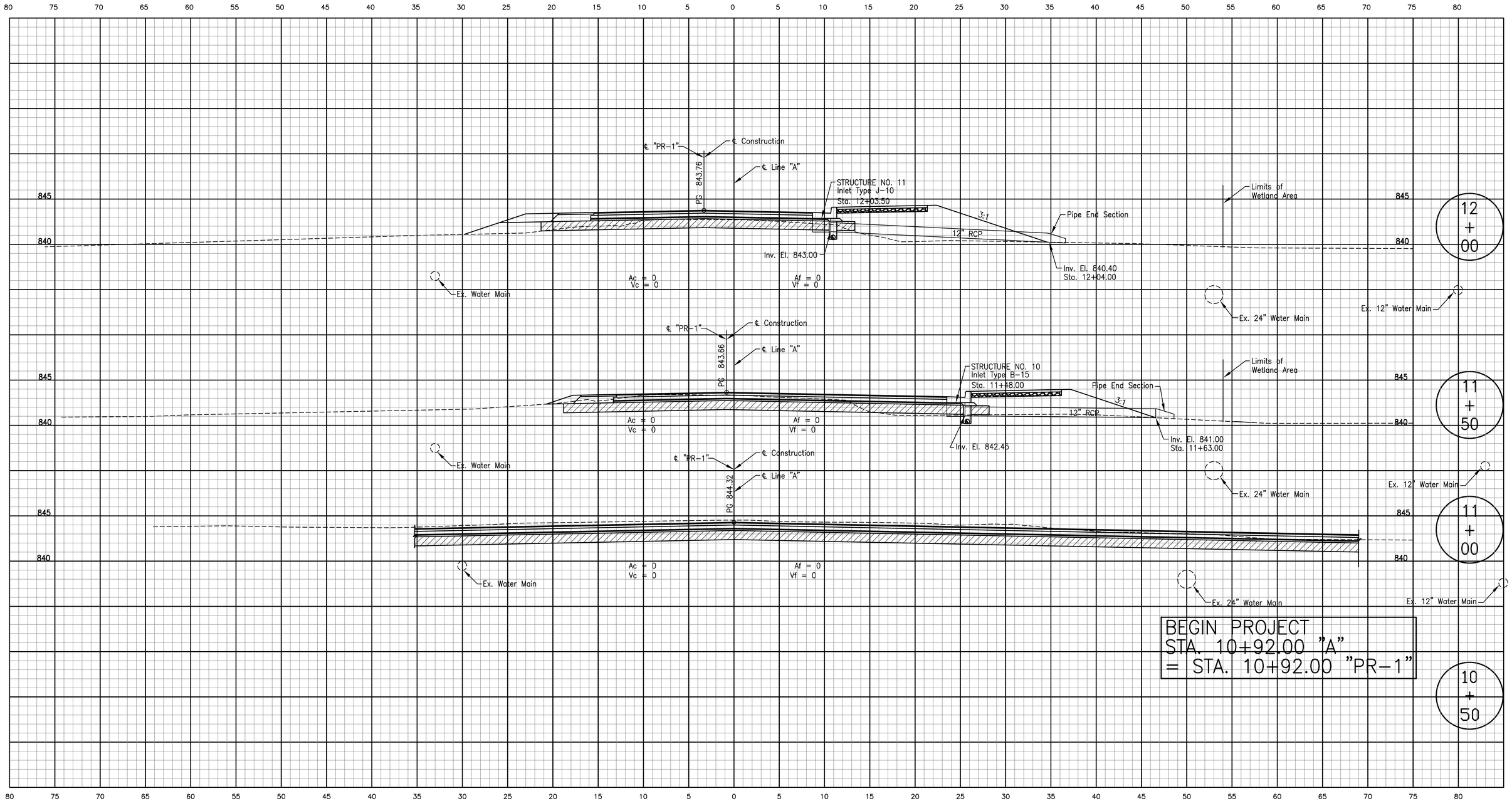
MISCELLANEOUS TABLES
161st. ST. OVER COOL CREEK

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HAMILTON 147
VERTICAL SCALE	DESIGNATION
N/A	0500908
SURVEY BOOK	SHEETS
	26 of 32
CONTRACT	PROJECT
	PB-10-0008

File: 23-2006-05 Miscellaneous Tables .dwg

CROSS SECTIONS

CUT — Scale 1 inch = 5 feet — FILL



NOT FOR CONSTRUCTION

DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1"=5'	BRIDGE FILE HAMILTON 147
VERTICAL SCALE 1"=5'	DESIGNATION 0500908
SURVEY BOOK *	SHEETS 27 of 32
CONTRACT *	PROJECT PB-10-0008

File: 24-XS001.dwg

CROSS SECTIONS

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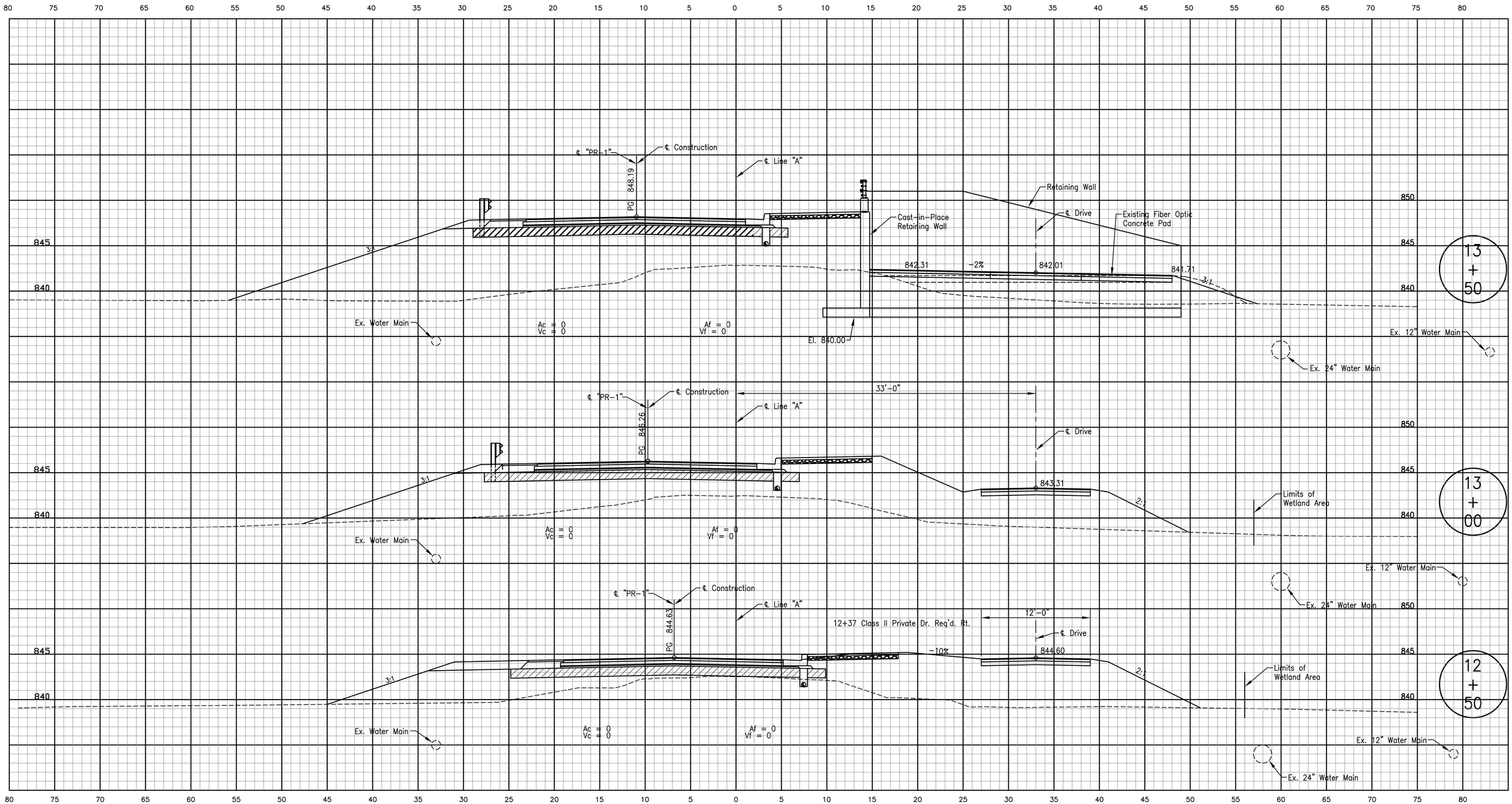


NOT FOR CONSTRUCTION

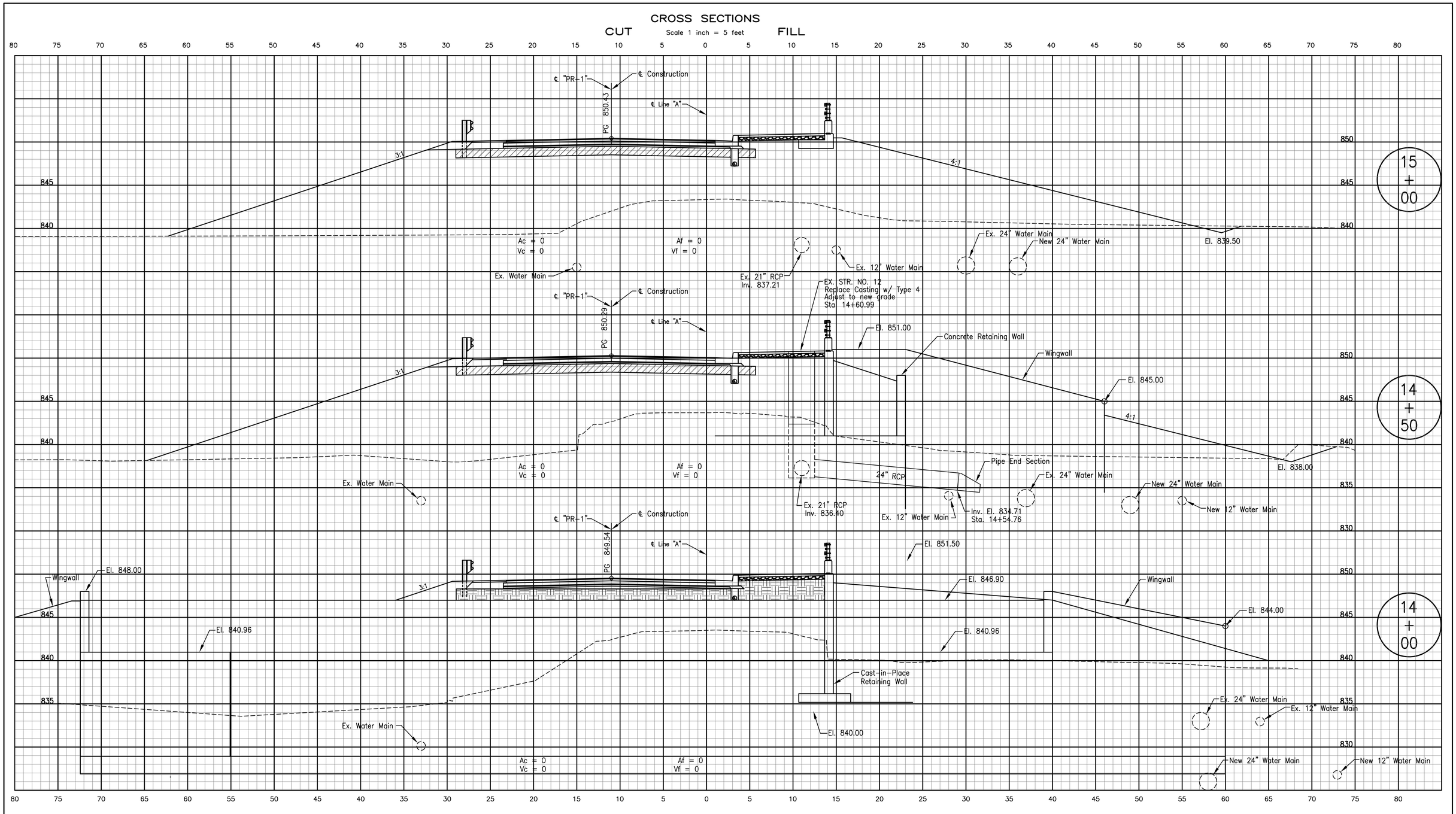
DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=5'	0500908
SURVEY BOOK	SHEETS
*	28 of 32
CONTRACT	PROJECT
*	PB-10-0008

File: 25-XS002.dwg



File: 26-XS003.dwg

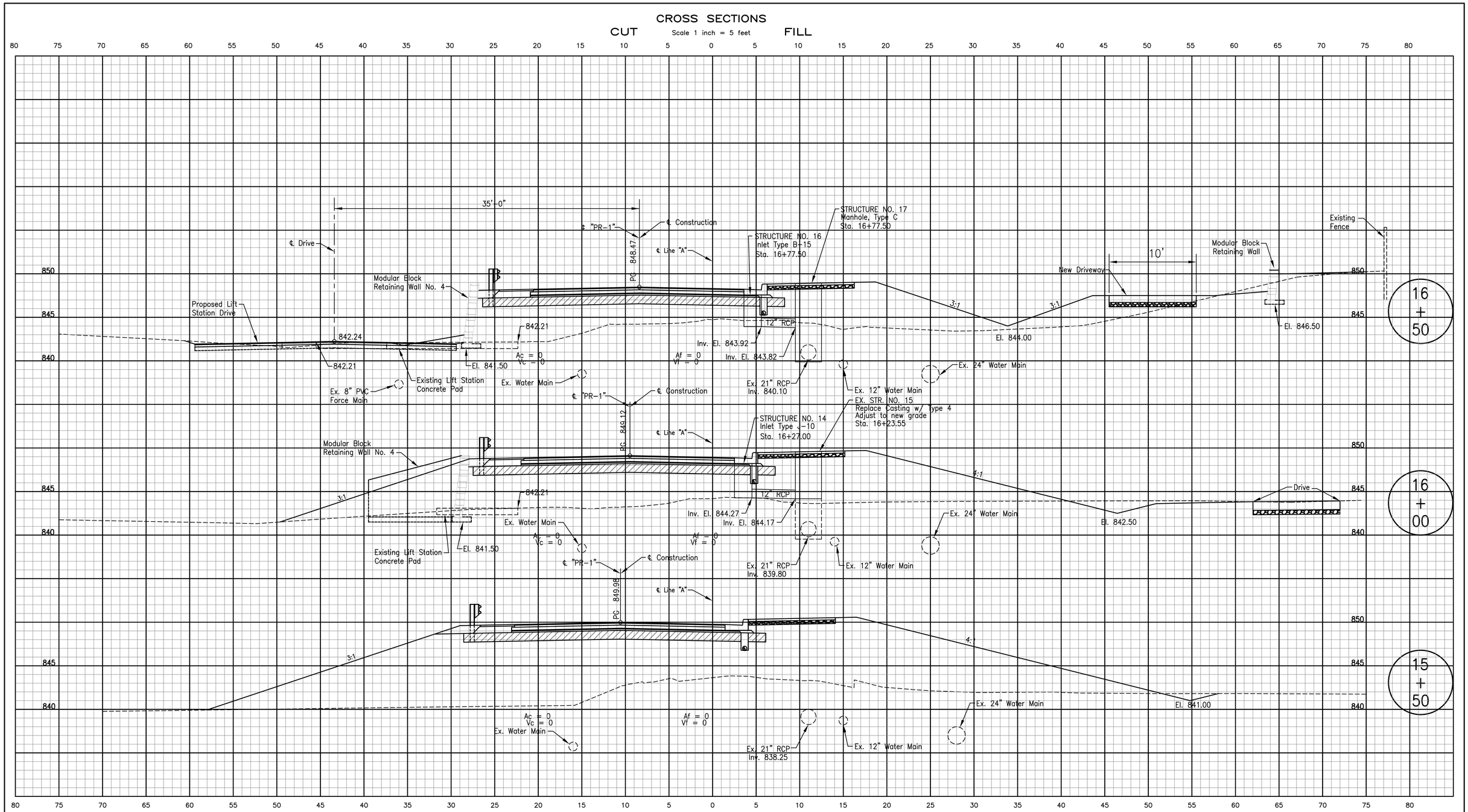
NOT FOR CONSTRUCTION

DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=5'	0500908
SURVEY BOOK	SHEETS
*	29 of 32
CONTRACT	PROJECT
*	*



File: 27-XS004.dwg

NOT FOR CONSTRUCTION

DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

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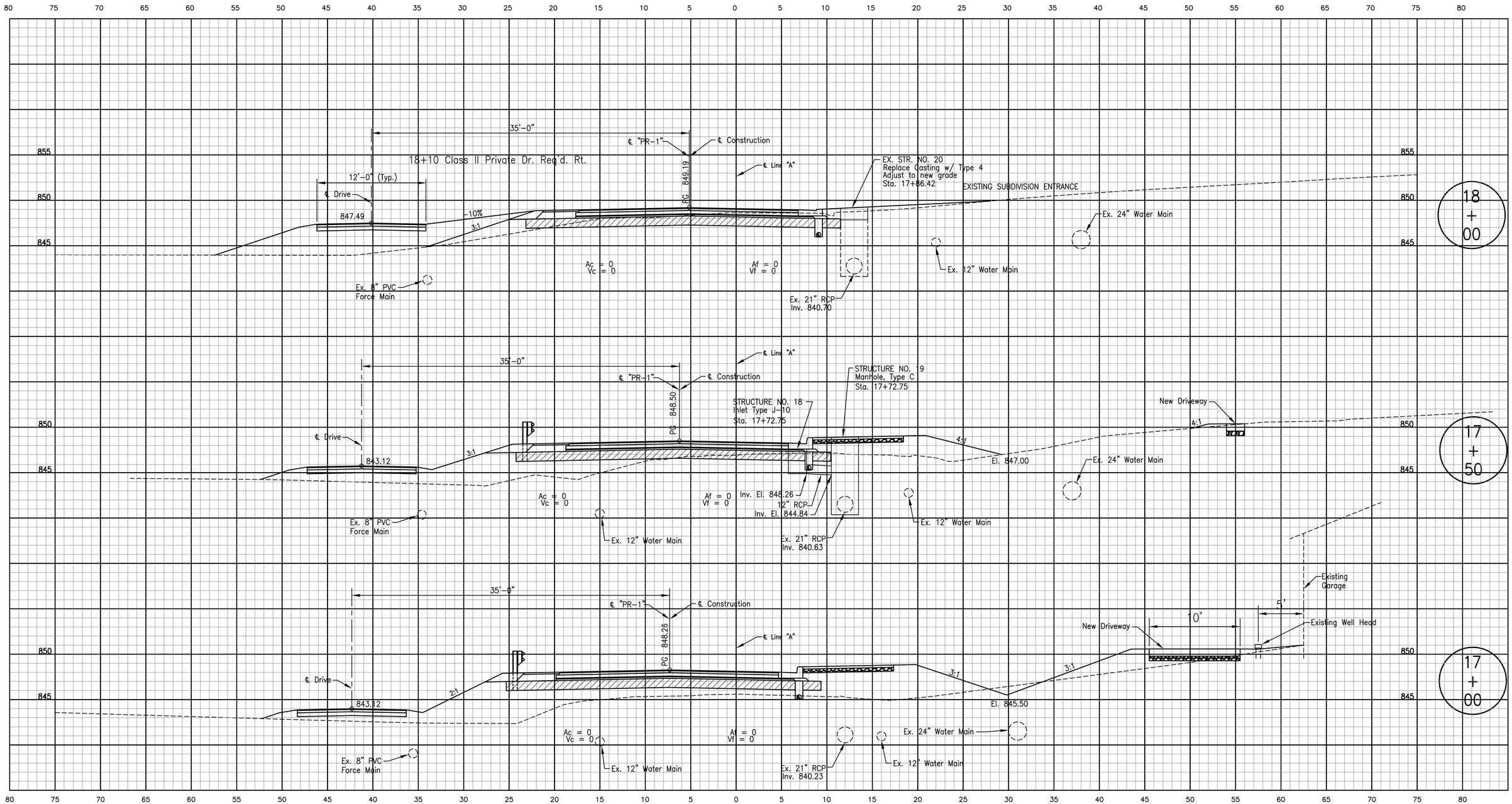
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=5'	0500908
SURVEY BOOK	SHEETS
*	30 of 32
CONTRACT	PROJECT
*	*

CROSS SECTIONS

CUT — Scale 1 inch = 5 feet — FILL



NOT FOR CONSTRUCTION

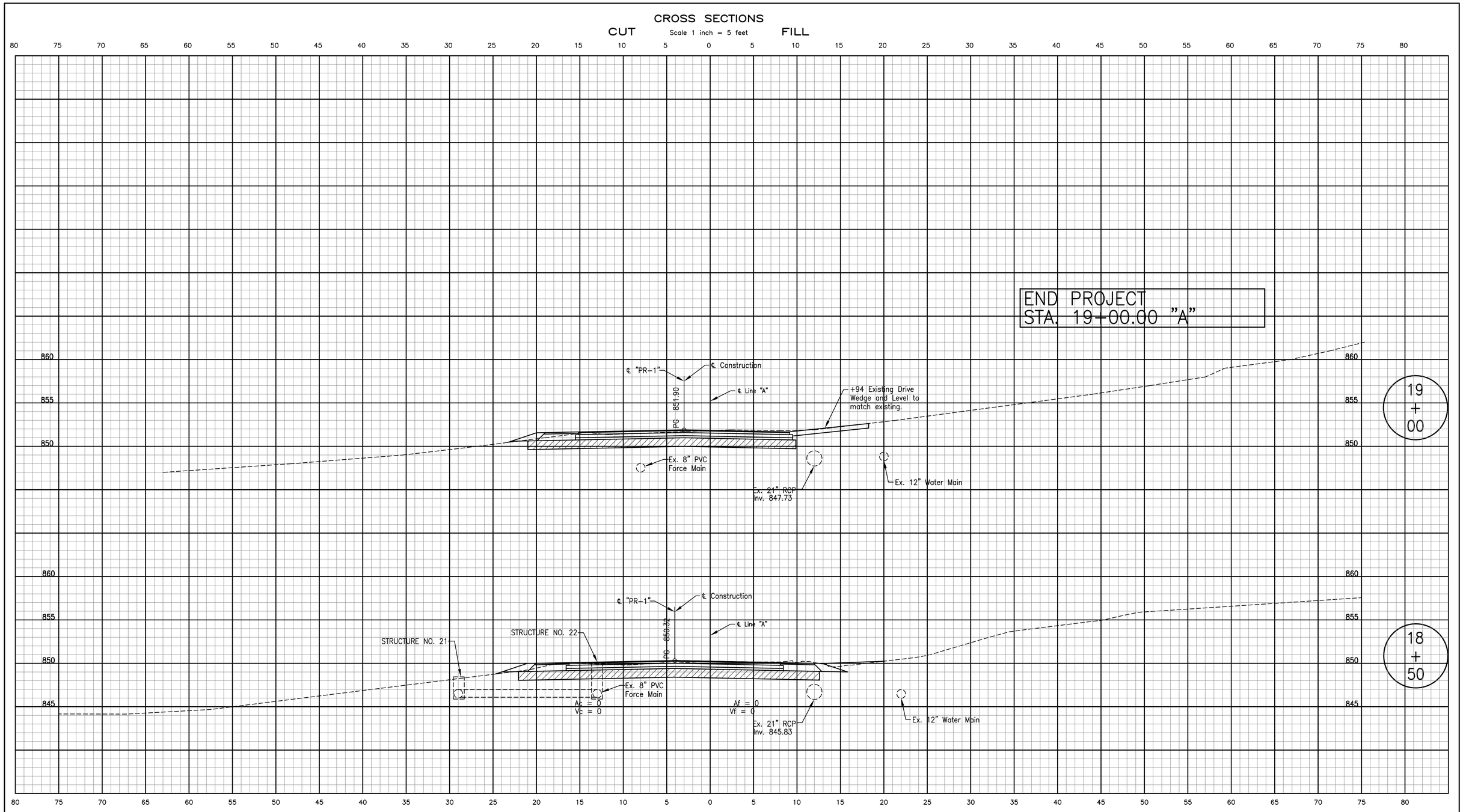
DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=5'	0500908
SURVEY BOOK	SHEETS
*	31 of 32
CONTRACT	PROJECT
*	*

File: 28-XS005.dwg



File: 29-XS-S006.dwg

NOT FOR CONSTRUCTION

DESIGNED: JES	DRAWN: JES
CHECKED: JPM	CHECKED: FF

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DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	HAMILTON 147
VERTICAL SCALE	DESIGNATION
1"=5'	0500908
SURVEY BOOK	SHEETS
*	32 of 32
CONTRACT	PROJECT
*	PB-10-0008