PROJECT	DESIGNATION
ST-212-4 (003)	9301160
CONTRACT	

INDIANA DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY

US 6 & CR 400W/CR 600W

CODE: 3702
STP PROJECT NO. 212 - 4 (004) R/W
DES. NO. 9301160

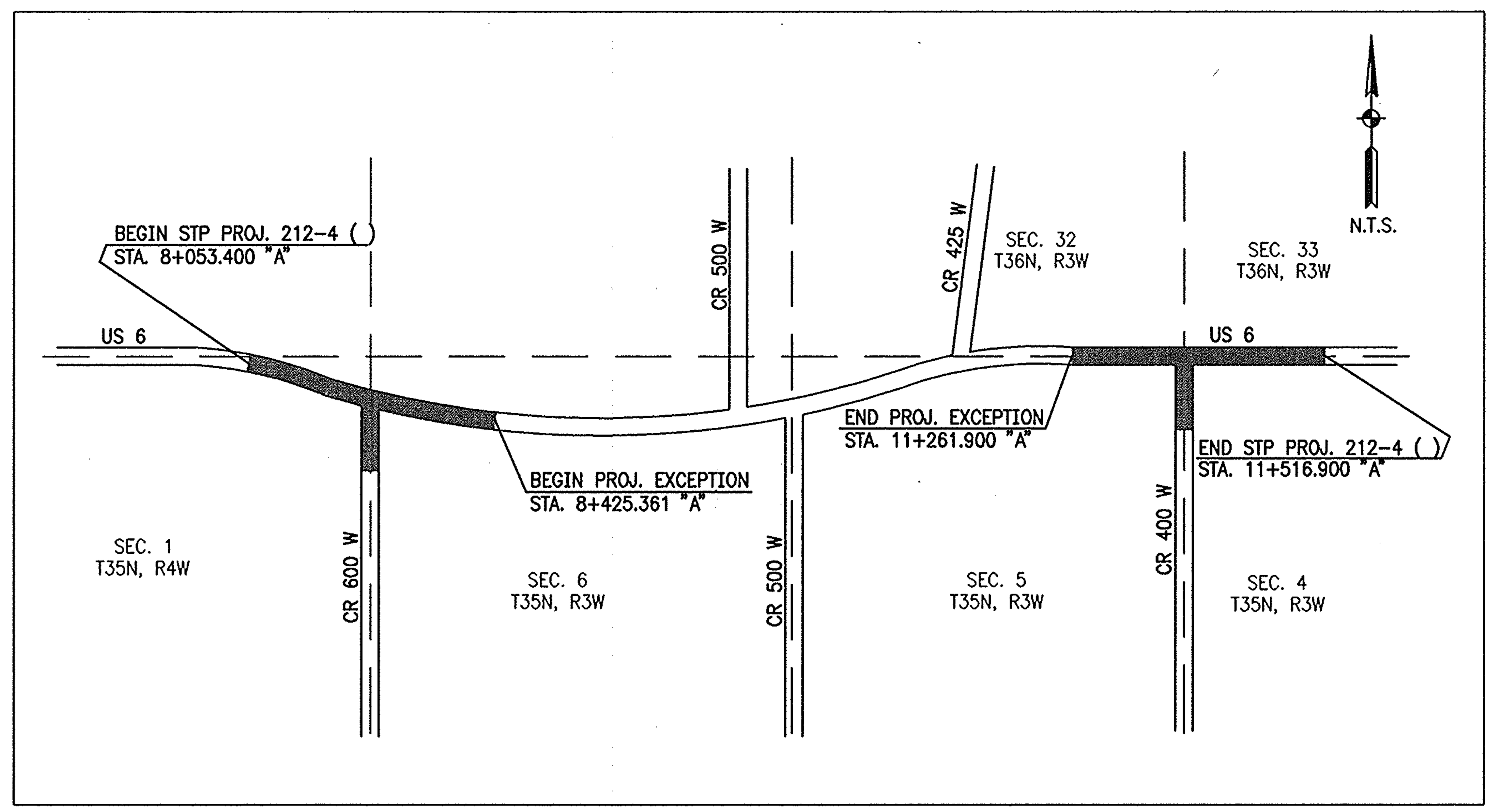
TRAFFIC DATA	CR 400 W
A.A.D.T. (1994)	660 V.P.D.
A.A.D.T. (2019)	890 V.P.D.
D.H.V.	107 V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	3% D.H.V.
	5% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	90 K.P.H.
ACCESS CONTROL	NONE
FUNCTIONAL CLASSIFICATION	RURAL LOCAL
TERRAIN	LEVEL

TRAFFIC DATA	CR 600 W
A.A.D.T. (1995)	560 V.P.D.
A.A.D.T. (2019)	750 V.P.D.
D.H.V.	82 V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	16% D.H.V.
	18% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	90 K.P.H.
ACCESS CONTROL	NONE
FUNCTIONAL CLASSIFICATION	RURAL LOCAL
TERRAIN	LEVEL

TRAFFIC DATA	US 6
A.A.D.T. (1994)	5690 V.P.D.
A.A.D.T. (2019)	7680 V.P.D.
D.H.V.	614 V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	29% D.H.V.
	30% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	90 K.P.H.
ACCESS CONTROL	NONE
FUNCTIONAL CLASSIFICATION	RURAL MINOR ARTERIAL
TERRAIN	LEVEL

PROJECT LOCATION SHOWN BY

LEGEND



LOCATION MAP
NOBLE TWP.
LAPORTE COUNTY

Code 3702
21 sheets

RLR

[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 1995 TO BE USED WITH THESE PLANS]

C:\9764\9764RWTI.DWG\1:1000\01-20-98 JDD/SM/MAP

A & F ENGINEERING CO., INC.
CONSULTING ENGINEERS
5172 E. 65th St., Indianapolis, IN. 46220 (317) 842-0864

FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: ______ DATE
DIVISION ADMINISTRATOR

APPROVED: Richard F Lewis 7-22-98
MANAGER, R/W ENGINEERING SECTION
APPROVED: Jay D Marks 7-22-98
CHIEF, DIVISION OF LAND ACQUISITION

	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	1 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

UTILITIES

UTILITY	OWNER	ADDRESS
ELECTRIC	NIPSCO	1313 167th STREET HAMMOND, IN 46324 (219) 853-5025
TELEPHONE	GTE	8001 W. JEFFERSON BLVD. FORT WAYNE, IN 46801 (219) 461-3202 CONTACT: MS. DONNA MAHAN
GAS	NIPSCO	1313 167th STREET HAMMOND, IN 46324 (219) 853-5025

REVISIONS

SHEET NO.	DATE	REVISED

R/W INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX & GENERAL NOTES
3 - 4	PARCEL LISTING/LAND AQUISITION
5	PLAT 1
6	TYPICAL SECTIONS
7 - 10	PLAN AND PROFILE
11 - 17	CONSTRUCTION DETAIL
18	APPROACH TABLE
19	STRUCTURE DATA

GENERAL NOTES

	Standard divided lane sections for Federal Aid ________Projects ________as shown on Sheet No. ___to be used on this project.
	Standard ramp section ________to be used on this project. Pavement thickness shall be ___inches.
	Standard single lane pavement sections ________as shown on Sheet No.___to be used on this project.
	A ___inch___pavement shall be used.
	Typical cross section as shown on Sheets No. ___to be used on this project.
	Standards under dates as listed in the index on this sheet to be used on this project.
	All Ditches of 1% grade and over shall be sodded except where ditch is in rock cut or where Paved Side Ditch is to be constructed.
	Sodding shall be placed as shown on Standard and Typical Cross-Sections and on Miscellaneous Standard Sheet "MB".
	All Earth Shoulders, Median Area, Cut and Fill slopes shall be plain or mulched seeded except where Sodding is specified.
	Overhaul and Added Haul Quantities as shown in the Balances are for information only.
	Excavation Quantities as shown include estimated excavation for Public and Private Approaches. See Table on Sheet No.
	The final Cross-Sections of the "Grading Contract" shall be the original cross-sections of the "Paving Contract" except that portial or complete cross-sections shall be taken if necessary to determine the actual quantities of Excavation.
	Paper Relocation is to be cross-sectioned by the Project Engineer before construction.
	Where existing surface is located outside the limits of new construction between Station ________and Station________, the Contractor will be required to remove the present roadway surface and base as directed by the Engineer.
	For Kinds of Pipe permitted for each size and classification as shown on the Structure Data Sheet, see Miscellaneous Standard Sheets "MP" and "MP-1".
	Sheet Sign And U-Channel Posts Shall Not be Ordered Until The Exact Number of Signs And Length of Each Post has Been Determined Upon Field Investigation.
	The Contractor must accept the plan quantities of Subbase as given on the Estimate of Quantities Sheet subject to the conditions as set out in 304.07 of the Standard Specifications.
	The minimum grade for Underdrains shall be 0.20%. Where the profile grade is less than 0.20% special grades for Underdrains shall be established by the Engineer.
	Exit Direction Sign and Stop Sign Shall Not be Removed until the New One is at Jobsite and Ready to install these Two Signs Shall be Seen by Travel Motorists at all Times at Least one Advance Guide Sign is Required in Advance of the Exit Point.
	All Limited Access R/W (L.A. R/W) to be fenced with Chain Line Type Fence (C.L.T.F.) or Farm Field Type Fence (F.F.T.F.) as specified in the plans.
	Curves shall be Superelevated according to the Standards of ________(Except Special "Super-Transitions" shall be detailed on Sheet No. ___).
	A Keyway Joint is to be constructed on Median side of each pavement.
	Contraction Joints shall be placed at all manholes within pavement limits.
	Contraction Joints shall be placed at the beginning and end of all radii, at Street and alley intersections.
	All Highway Drainage Structures 42" dia. and over have been designed on the basis of a 10 year storm frequency. (Except Structure Numbers ____, which have been designed for a ___year storm frequency.) The elevations of the design headwater for each culvert having a design flood of more than 500 cubic feet per second, are shown on the Plan-Profile Sheets at the culvert locations.
	The item Seed Mixture "CV" is to be used at those locations where the slopes are 3:1 or steeper or in an area requiring sand cut or fills or as directed by the Engineer.
	The quantity of Peat "Excavation" as shown the plans has been estimated on the basis of theoretical cross-sections by using Method "A" where it applies and Method "B" where it applies.
	Preformed Joint Material for Cross-overs, Drives, Road Approaches and Sidewalk will not be paid for directly, the cost thereof to be included in the contract unit price for the various items in the contract.
	For Paved side ditch and Sodding Quantities see table on Sheet No. ___
	All Signs Shall be Marked For Identification. The Marking Material Shall be Either Scotch Lite, Seibulite, Reflexite, or Approved Equal. The Identifying Message Shall Consist of INDOT and the month and Year the Sign is installed. The Message Copy Shall Consist of black Lettering of a Minimum of one inch in Height. The Marking Background Shall be White. The Marking for Sheet Signs Shall be Placed in the Lower Corner Closest To the Centerline of the Roadway. The Marking For Panel Signs Shall be Placed On the Bottom Panel On the End Closest to the Centerline of the Roadway. The Marking Shall Not be Covered by the Sign's Support After Installation of the Sign.
	Standards Under Dates as Listed in the Index on This Sheet to be Used on This Project.
	Clearing and removal of woody vegetation will be kept to a minimum between construction limits and right-of-way.
	Prior to extending existing pipe structures, headwall in place on extended end shall be removed.
	Prime Coat shall be placed on aggregate bases under bituminous pavement and shoulders, before the first bituminous lift is placed.
	The Engineer may Change the Type of Fence Shown on the Plans upon Receipt of Reasonable, Written Justification from the Property Owner.
	The Vertical Clearance of the Stop Sign Shall be 7 Feet From The Edge of Pavement.
	Unless otherwise specified the contractor shall have the option of using either Hot Asphaltic Concrete (HAC) or Hot Asphaltic Emulsion (HAE) on all Bituminous items.
	Movement of excavation is shown on Mass Haul Diagram on Sheet No. ___, with the entire project being one balance.
	Tack Coat shall be placed on new and existing bituminous before a new lift of bituminous is added.
	All Design Shall be In Accordance With The Standard Specifications For Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 1985 Edition.
	Each U-Channel Post shall be Marked at 4.0' Length and be Driven at That Length Unless Directed Otherwise.
	Aluminum Bar Bracing (1/4"x 1" Length Required) Will be Required on all Channel Post Mounted Signs Exceeding 60 Inches in Length.

** REPRESENTS GENERAL NOTES REQUIRED.

INDEX

SHEET NO.	SHEET DESIGNATION
1	TITLE SHEET
2	INDEX & GENERAL NOTES
	TYPICAL SECTIONS
	PLAT 1
	MAINTENANCE OF TRAFFIC
	PLAN AND PROFILE
	CONSTRUCTION DETAIL
	PAVEMENT MARKING DETAILS
	SUPERELEVATION DRAWING
	APPROACH TABLE
	STRUCTURE DATA
	CROSS SECTIONS

XREF: XIND-RWNI.DWG
C:\STP64\STP64RWN\DWGS\1:200\01-20-98 JDD/MAP

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE
DESIGNED:		DRAWN:	
CHECKED:		CHECKED:	

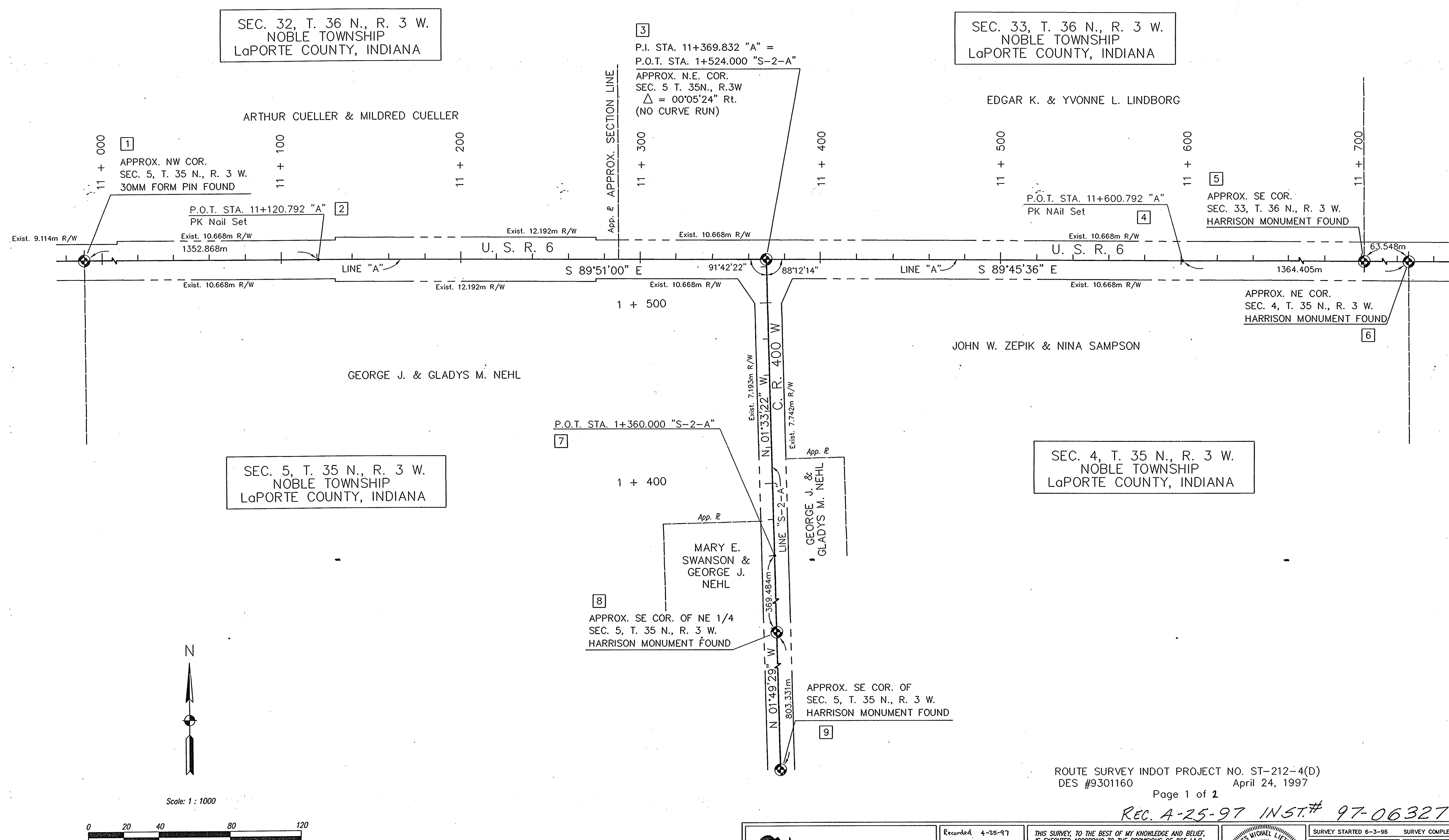
INDIANA DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 9301160
SURVEY BOOK 16486	SHEETS 2 of 19
CONTRACT	PROJECT STP-212-4 (003)

Code 3702
Recorded 4/25/97
Inst # 9706327

CODE: 3702



ROUTE SURVEY INDOT PROJECT NO. ST-212-4(D)
DES #9301160 April 24, 1997
Page 1 of 2

REC. 4-25-97 INST.# 97-06327

COLE ASSOCIATES
ENGINEERS ARCHITECTS PLANNERS SURVEYORS
2211 EAST JEFFERSON BOULEVARD
SOUTH BEND, INDIANA 46615
219-236-4400

Recorded 4-25-97
Inst # 97-06327

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTIONS OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

James Michael Lietzan 4-24-97
JAMES MICHAEL LIETZAN DATE
INDIANA REGISTERED LAND SURVEYOR NO. S0475

JAMES MICHAEL LIETZAN
REGISTERED
No. S0475
STATE OF INDIANA
LAND SURVEYOR

SURVEY STARTED 6-3-96	SURVEY COMPLETED 4-22-97
COUNTY: LaPORTE	INDOT PROJ. NO.: ST-212-4(D)
DES. NO.: 9301160	ROUTE: USR 6 @ CR 400

INDIANA
DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY

DRAWN BY:	CHECKED BY:	PROJECT NO:	SHEET NO.
WS	JML	9661302900	1 of 2

CODE: 3702

SURVEYOR'S REPORT
FOR
ROUTE SURVEY INDOT PROJECT NO. ST-212-4(D)
DES #9301160 April 24, 1997

Horizontal Control

Horozontal control was established using GPS. GPS 2 Vector survey methods were employed providing double vector solutions. NGS triangulation station "UNION" was used for the horizontal datum. All distances shown projected to surface. Bearings derived from the tangent bearing on U.S.R. 6 west of the intersection with County Road 600 West as shown on plan sheet 8 of 132 for Federal Aid Project No. 208, Sec. A, fiscal year 1931. The bearing shown on the plans to the east of the intersection is in error by 4 minutes and 30 seconds using the deflection for the curve shown at the intersection. Metric values were used for this survey.

Line "A"

Line "A" was established by offseting iron pins found on the approximate right of way on tangent sections East and West of the Curve on U.S.R. 6 at LaPorte County Road 600 West. These Tangent Lines were extended and intersected to establish the P.I. of said curve. The P.I. Station on Line "A" was established using the P.I. station 271+18.0 as shown on plan sheet 8 of 132 for Federal Aid Project No. 208, Sec. A, fiscal year 1931. This station was multiplied by a factor of 0.3048 to convert the stationing to metric 8+265.566. The deflection of 15° 49' 21" left as turned in the field was used for this survey. The plan deflection is 15° 51' left. The radius was calculated from the degree of curve shown on the plans (5729.578/2). The radius as calculated was multiplied by a factor of 0.3048 to convert the distance to meters and was used with the deflection to compute the remaining curve data.

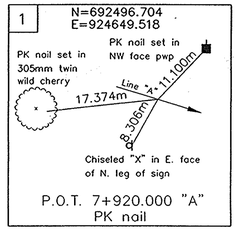
Line "S-1-A"

Line "S-1-A" was established using the West line of Section 6, Township 35 North, Range 3 West. This line is represented by a Harrison Monument found at the Southwest Corner of the Northwest Corner of said Section 6 and a Harrison Monument found at the Northwest Corner of said Section 6. Both of these corners are on record in the LaPorte County Surveyor's Office. The line established by these three points was used as "S-1-A" and intersected with the line established as Line "A". This point of intersection was given an assumed station of 3+048.000 on Line "S-1-A". Line "S-1-A".

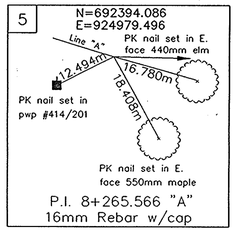
Other Section Corner Ties

An iron pin was found at the Northeast Corner of said Section 6. This corner is on record in the LaPorte County Surveyor's Office.

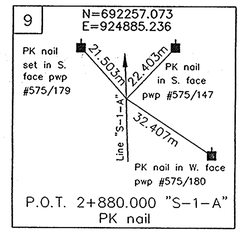
1. PK nail set at P.O.T. Station 7+920.000 Line "A".
   The uncertainty of this point is estimated to be negligible.
2. PK nail set at P.O.T. Station 7+968.474 Line "A".
   The uncertainty of this point is estimated to be negligible.
3. Mag nail set at P.C. Station 8+144.226 Line "A".
   The uncertainty of this point is estimated to be negligible.
4. PK nail set at P.O.C. Station 8+162.009 Line "A" = P.O.T. Station 3+048.000 Line "S-1-A".
   The uncertainty of this point is estimated to be negligible.
5. 16mm rebar with cap set at P.I. Station 8+265.566 Line "A".
   The uncertainty of this point is estimated to be negligible.
6. Mag nail set at P.C. Station 8+385.361 Line "A".
   The uncertainty of this point is estimated to be negligible.
7. PK nail set at P.O.T. Station 8+480.000 Line "A".
   The uncertainty of this point is estimated to be negligible.
8. PK nail set at P.O.T. Station 8+490.195 Line "A".
   The uncertainty of this point is estimated to be negligible.
9. PK nail set at P.O.T. Station 2+880.000 Line "S-1-A".
   The uncertainty of this point is estimated to be negligible.
10. 30mm iron form pin found at the Northeast Corner of Section 6, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References.
    The uncertainty of this point is estimated to be negligible.
11. Harrison monument found at the Northwest Corner of Section 6, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References.
    The uncertainty of this point is estimated to be negligible.
12. Harrison monument found at the Southeast Corner of the Northeast Quarter of Section 1, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References.
    The uncertainty of this point is estimated to be negligible.



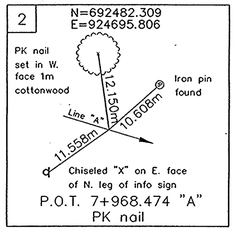
P.O.T. 7+920.000 "A"
PK nail



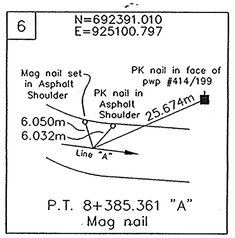
P.I. 8+265.566 "A"
16mm Rebar w/cap



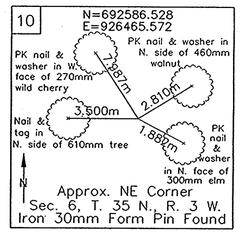
P.O.T. 2+880.000 "S-1-A"
PK nail

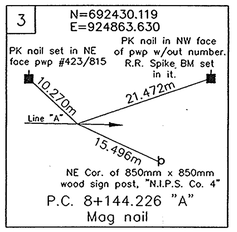


P.O.T. 7+968.474 "A"
PK nail

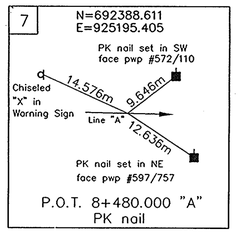


P.T. 8+385.361 "A"
Mag nail

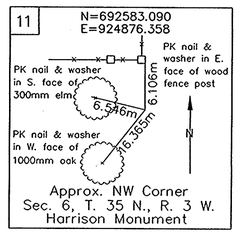


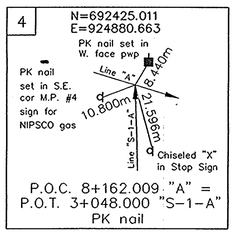


P.C. 8+144.226 "A"
Mag nail

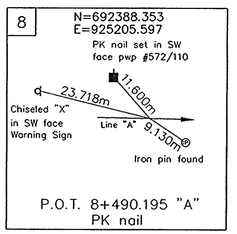


P.O.T. 8+480.000 "A"
PK nail

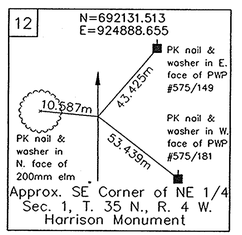




P.O.C. 8+162.009 "A" =
P.O.T. 3+048.000 "S-1-A"
PK nail



P.O.T. 8+490.195 "A"
PK nail



COLE ASSOCIATES
ENGINEERS ARCHITECTS PLANNERS SURVEYORS
2211 EAST JEFFERSON BOULEVARD
SOUTH BEND, INDIANA 46615
219-236-4400

Recorded 4-25-97
Inst # 97-06326

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTIONS OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

James Michael Lietzan 4-24-97
JAMES MICHAEL LIETZAN DATE
INDIANA REGISTERED LAND SURVEYOR NO. S0475

JAMES MICHAEL LIETZAN REGISTERED No. S0475 STATE OF INDIANA LAND SURVEYOR

ROUTE SURVEY PLAT

COUNTY: LaPORTE	INDOT PROJ. NO.: ST-212-4(D)
DES. NO.: 9301160	ROUTE: US6 at CR 600

INDIANA
DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY

DRAWN BY:	CHECKED BY:	PROJECT NO: 9301302000	SHEET NO. 2 of 2
MJC	JML		

CODE: 3702

SURVEYOR'S REPORT
FOR
ROUTE SURVEY INDOT PROJECT NO. ST-212-4(D)
DES #9301160 April 24, 1997

Horizontal Control

Horozontal control was established using GPS. GPS 2 Vector survey methods were employed providing double vector solutions. NGS triangulation station "UNION" was used for the horizontal datum. All distances shown projected to surface. Bearings derived from the tangent bearing on U.S.R. 6 west of the intersection with County Road 400 West as shown on plan sheet 11 of 132 for Federal Aid Project No. 208, Sec. A, fiscal year 1931. Metric values are used for this survey.

Line "A"

Line "A" was established using the North line of Section 5, Township 35 North, Range 3 West and the North line of Section 4, Township 35 North, Range 3 West. The station for the point of intersection of Line "A" with the West line of said Section 4 was established using the P.O.T. station 373+02.6 as shown on plan sheet 11 of 132 for Federal Aid Project No. 208, Sec. A, fiscal year 1931. This station was multiplied by a factor of 0.3048 to convert the stationing to metric 11+369.832.

Line "S-2-A"

Line "S-2-A" was established using the West line of said Section 4. This line is represented by a Harrison Monument found at the Southwest Corner of the Northwest Quarter of said Section 4 and a railroad spike found at the Northwest Corner of said Section 4, both monuments on record in the LaPorte County Surveyor's Office. The Northwest Corner of said Section 4 was given an assumed station of 1+524.000 on Line "S-2-A".

1. 30mm form pin found at the Northwest Corner Section 5, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.
2. PK nail set at P.O.T. Station 11+120.792 Line "A". The uncertainty of this point is estimated to be negligible.
3. Railroad spike found at the Northeast Corner Section 5, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.
4. PK nail set at P.O.T. Station 11+600.792 Line "A". The uncertainty of this point is estimated to be negligible.
5. Harrison monument found at the Southeast Corner of Section 33, Township 36 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.
6. Harrison monument found at the Northeast Corner Section 4, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.
7. PK nail set at P.O.T. Station 1+360.000 Line "S-2-A". The uncertainty of this point is estimated to be negligible.
8. Harrison monument found at the Southeast Corner of the Northeast Quarter of Section 5, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.
9. Harrison monument found at the Southeast Corner of Section 5, Township 35 North, Range 3 West; based off of the LaPorte County Surveyor References. The uncertainty of this point is estimated to be negligible.

1
N=692851.473
E=926267.460
PK nail & washer in N. side of 460 mm walnut.
PK nail & washer in W. face of 270mm wild cherry
3.087m
2.810m
Line "A"
3.500m
1.686m
PK nail & washer in N. face of 300mm elm
Nail & tag in N. side of 610mm tree
APPROX N.W. COR. SEC. 5
T. 35 N., R. 3 W.
30mm Form Pin Found

2
N=692847.931
E=927620.323
PK nail in fence post, S. side gate
NE corner concrete wing wall
24.250m
66.550m
Line "A"
33.220m
Chiseled "X" in N leg of "No Passing" sign
P.O.T. 11+120.792 "A"
PK nail set

3
N=692847.279
E=927869.362
PK nail in pwp #576/885
12.945m
Line "A"
18.809m
PK nail in pwp #578/014
Line "S-2-A"
18.423m
PK nail in pwp #575/546
P.I. 11+369.832 "A"=
P.O.T. 1+524.000 "S-2-A"
APPROX. N.E. COR. SEC. 5,
T. 35 N., R. 3 W., R.R. Spike

4
N=692846.311
E=928100.320
Chiseled "X" in S. leg "No Passing" sign
35.050m
Line "A"
PK nail in N. face of GTE telephone pole #30307-5 480mm up
70.440m
45.425m
PK nail in GTE telephone pole #30307-1-4
P.O.T. 11+600.792 "A"
PK nail set

5
N=692840.866
E=929401.166
Nail & tag in W. face of pwp #423/359
Nail & tag in E. face of 900mm maple
32.690m
27.517m
Line "A"
17.011m
18.337m
"X" cut in NE corner of concrete post
Nail & tag in E. face of pwp (no #)
APPROX S.E. COR. SEC. 33
T. 36 N., R. 3 W.
Harrison Monument Found

6
N=692840.595
E=929464.713
PK nail & washer on top of wood fence post
16.802m
Line "A"
PK nail & washer in N. face of pwp #555/355
27.947m
27.298m
27.860m
PK nail & washer in SE face of pwp #555/354
PK nail & washer in W. face of pwp #555/356
APPROX N.E. COR. SEC. 4
T. 35 N., R. 3 W.
Harrison Monument Found

7
N=692683.339
E=927873.816
PK nail in pwp #414/155
32.776m
PK nail in S. face tel pole
9.250m
PK nail in W. face fence corner post
8.950m
Line "S-2-A"
P.O.T. 1+360.000 "S-2-A"
PK nail set

8
N=692313.991
E=927883.849
Nail & tag in S. face of wood fence post
PK nail in S. face pwp #576/380
6.471m
Line "S-2-A"
6.799m
8.989m
PK nail in S. root of 870mm maple
8.144m
PK nail in NW face of pwp #413/491
APPROX S.E. COR. OF
N.E. 1/4 SEC. 5
T. 35 N., R. 3 W.
Harrison monument found

9
N=691511.067
E=927909.427
PK nail in fence corner post
8.112m
11.370m
Line "S-2-A"
PK nail in 900 mm maple tree
11.925m
PK nail in gate post at W end of gate
APPROX S.E. COR. SEC. 5
T. 35 N., R. 3 W.
Harrison monument found

COLE ASSOCIATES
ENGINEERS ARCHITECTS PLANNERS SURVEYORS
2211 EAST JEFFERSON BOULEVARD
SOUTH BEND, INDIANA 46615
219-236-4400

Recorded 4-25-97
Inst # 97-06327

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12 REGARDING ROUTE SURVEYS; EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTIONS OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

James Michael Lietzan 4-24-97
JAMES MICHAEL LIETZAN DATE
INDIANA REGISTERED LAND SURVEYOR NO. S0475

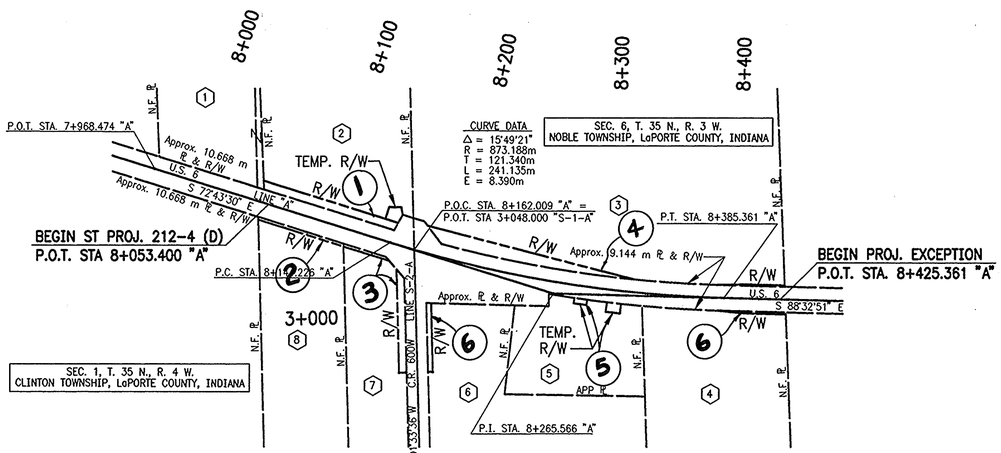
JAMES MICHAEL LIETZAN REGISTERED No. S0475 STATE OF INDIANA LAND SURVEYOR

SURVEY STARTED 6-3-96 SURVEY COMPLETED 4-22-97
COUNTY: LaPORTE INDOT PROJ. NO.: ST-212-4(D)
DES. NO.: 9301160 ROUTE: USR 6 @ CR 400
INDIANA DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY
DRAWN BY: MAS CHECKED BY: JML PROJECT NO.: 9611300900 SHEET NO.: 2 of 2

CODE: 3702


A
APPROX. NE COR.
SEC. 1, T. 35 N., R. 4 W.
HARRISON MONUMENT FOUND
APPROX. SECTION LINE
11
APPROX. NW COR.
SEC. 6, T. 35 N., R. 3 W.
HARRISON MONUMENT FOUND
N 89°52'34" E 1589.218m
10
APPROX. NE COR.
SEC. 6, T. 35 N., R. 3 W.
IRON 30MM FORM PIN FOUND
SEC. 6, T. 35 N., R. 3 W.
NOBLE TWP., LAPORTE COUNTY, INDIANA
JAMES A.
& VIVIAN S. SCHWEIZER
PAUL W. &
LOUISE A.
STEFANKO
JUNE I. GOODWIN,
TRUSTEE
158.138m
N 01°33'36" W
APP ℄
7+800
7+900
8+000
8+100
8+200
8+300
8+400
8+500
Exist. 10.868m R/W
Exist. 12.192m R/W
Exist. 9.144m R/W
Exist. 10.668m R/W
S 72°43'30" E
U. S. R. 6
LINE "A"
1
P.O.T. STA. 7+920.000 "A"
P.O.T. STA. 7+968.474 "A"
2
PHILIP E. ,JR. & EMILY ROPER
P.O.C. STA. 8+162.009 "A" =
P.O.T. STA 3+048.000 "S-1-A"
4
P.T. STA. 8+385.361 "A"
6
CURVE DATA
Δ = 15°49'21" LT
R = 873.188m
T = 121.340m
L = 241.135m
E = 8.390m
PHILIP E. ROPER & EMILY ROPER
7
P.O.T. STA. 8+480.000 "A"
P.C. STA. 8+144.226 "A"
3
MARTIN & NANCY MALONE
72°19'52" T.T.C.
R/W
B
3 + 000
S 88°32'51" E
P.I. STA. 8+265.566 "A"
5
E
P.O.T. STA. 8+490.195 "A"
8
SEC. 1, T. 35 N., R. 4 W.
CLINTON TWP., LAPORTE COUNTY, INDIANA
C.R. 600 WEST
LINE "S-1-A"
HAROLD & ELLA KAMMRATH
EDWARD M. &
DEBRA A. KAMMRATH
ELAINE ABSHIRE
PHILIP E. ROPER &
EMILY ROPER
PROPERTY OWNERS
A HOMER & EVA M. SMITH
B PETER J. & SHIRLEY COSTELLO
C GORDON PERRY & DOROTHY MICHAELS
D EDWARD M. & DEBRA A. KAMMRATH
E ROBERT C. & KAREN E. COOPER
2 + 900
C
P.O.T. STA. 2+880.000 "S-1-A"
9
N
Exist. 7.620m R/W
125.607m
N 01°33'36" W
D
KENNETH L. &
EMMALINE R. VEDEN
12
APPROX. SE COR. OF NE 1/4
SEC. 1, T. 35 N., R. 4 W.
HARRISON MONUMENT FOUND
ROUTE SURVEY INDOT PROJECT NO. ST-212-4(D)
DES #9301160
April 24, 1997
Page 1 of 2
Scale: 1 : 1000
0 30 60 120
REC. 4-25-97 INST. No. 97-06326
COLE ASSOCIATES
ENGINEERS ARCHITECTS PLANNERS SURVEYORS
2211 EAST JEFFERSON BOULEVARD
SOUTH BEND, INDIANA 46615
219-236-4400
Recorded 4-25-97
Inst # 97-063326
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTIONS OF ANY NEW PARCELS TO BE ACQUIRED OR THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.
James Michael Lietzan 4-24-97
JAMES MICHAEL LIETZAN DATE
INDIANA REGISTERED LAND SURVEYOR NO. S0475
JAMES MICHAEL LIETZAN
REGISTERED
No.
S0475
STATE OF
INDIANA
LAND SURVEYOR
ROUTE SURVEY PLAT
COUNTY: LaPORTE
INDOT PROJ. NO.: ST-212-4(D)
DES. NO.: 9301160
ROUTE: US6 at CR 600
INDIANA
DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY
DRAWN BY:
CHECKED BY:
PROJECT NO:
SHEET NO. 1 of 2

CODE: 3702



1	Paul & Louise Stefanko	0.8 ha (2.0 Ac)
2	June I. Goodwin, Trustee	1.4 ha (3.8 Ac)
3	Philip E. jr. & Emily Roper	4.4 ha (10.8 Ac)
4	Edward M. & Debra A. Kammrath	2.6 ha (6.4 Ac)
5	Robert C. & Karen E. Cooper	0.6 ha (1.5 Ac)
6	Harold & Ella Kammrath	2.8 ha (6.9 Ac)
7	Peter J. & Shirley Costello	0.6 ha (1.5 Ac)
8	Kenneth L. & Emmaline Verden	2.2 ha (5.4 Ac)
9	Arthur & Mildred Cueller	
10	Edgar & Yvonne Lindberg	
11	John W. Zepik & Nina Sampson	
12	George J. & Gladys M. Nehl	

XREF: XNO-NLDWG, XNO-RWA.DWG
C:\0764\0764PLAT.DWG\1-2000\01-20-98 JDD/MJP

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

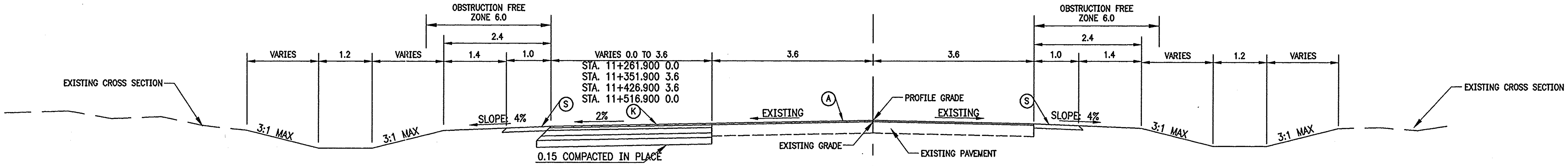
DESIGNED: A & F | DRAWN: JDD

CHECKED: _____ | CHECKED: MJF

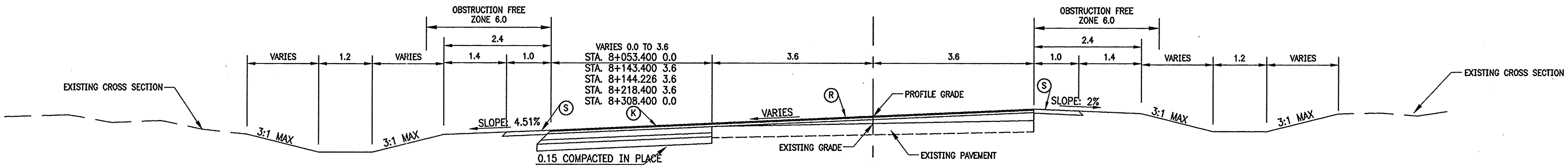
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT 1
U.S. 6 @ CR 600 N.

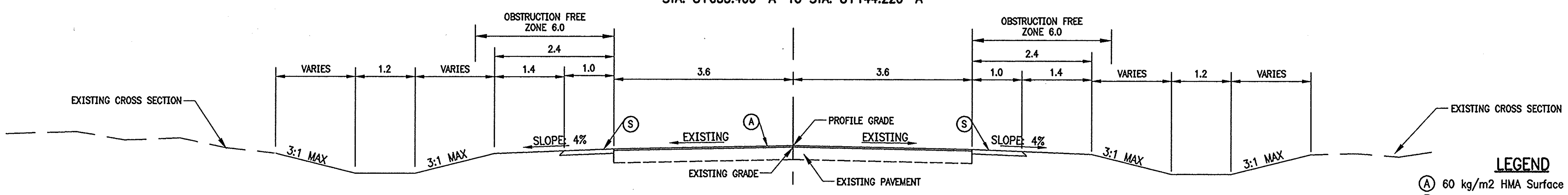
HORIZONTAL SCALE	BRIDGE FILE
1 : 2000	N/A
VERTICAL SCALE	DESIGNATION
N/A	9301160
SURVEY BOOK	SHEETS
16486	5 of 19
CONTRACT	PROJECT
	STP-212-4 (003)



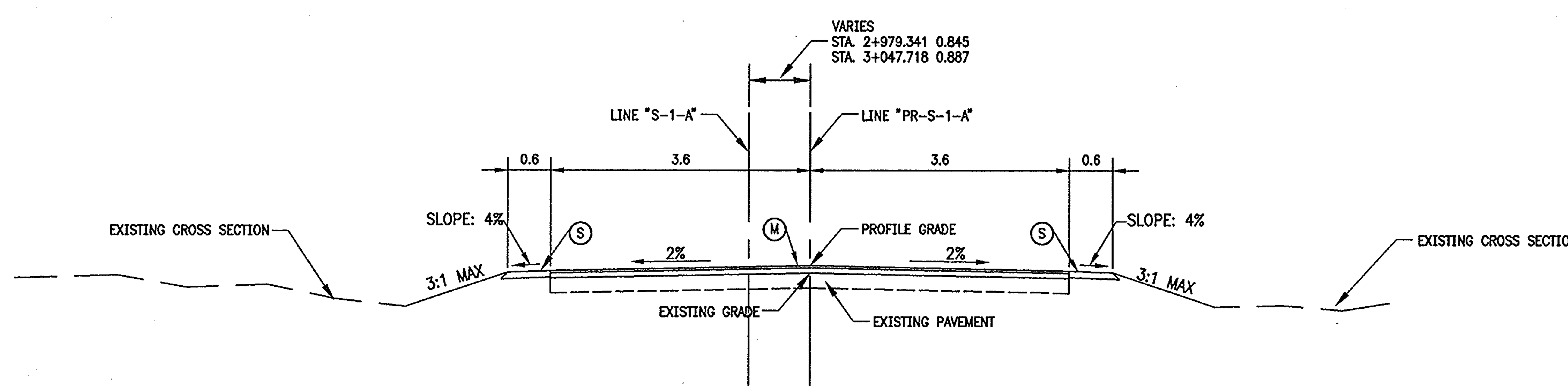
TANGENT SECTION
STA. 11+261.900 "A" TO STA. 11+516.900 "A"



CURVE SECTION
STA. 8+144.226 "A" TO STA. 8+385.361 "A"
TANGENT SECTION
STA. 8+053.400 "A" TO STA. 8+144.226 "A"



TANGENT SECTION
STA. 8+385.361 "A" TO 8+425.361 "A"



TANGENT SECTION
STA. 2+961.759 "PR-S-1-A" TO 3+047.718 "PR-S-1-A"

LEGEND

- (A) 60 kg/m2 HMA Surface 9.5 mm, Mainline
- (C) 150 mm Concrete, Class "A", for Driveways.
- (D) HMA for Approaches.
- (K) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on 540 kg/m2 HMA Base 25.0 mm, Mainline, on 150 mm Compacted Agg. Type "O" Size No. 53 on Standard Subgrade Treatment
- (M) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on HMA for Wedge and Level
- (R) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on Variable Depth HMA Base 25.0 mm, Mainline
- (S) 180 kg/m2 HMA Base 25.0 mm, Shoulder, With Seal Coat Type 2, on 225 mm Compacted Agg. Type "O" Size No. 53

XREF: XNO-M.DWG, XNO-RWM.DWG
C:\9764\9764TYP.DWG\1:50\01-20-98 JDD/SM/MAP

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER ______ DATE

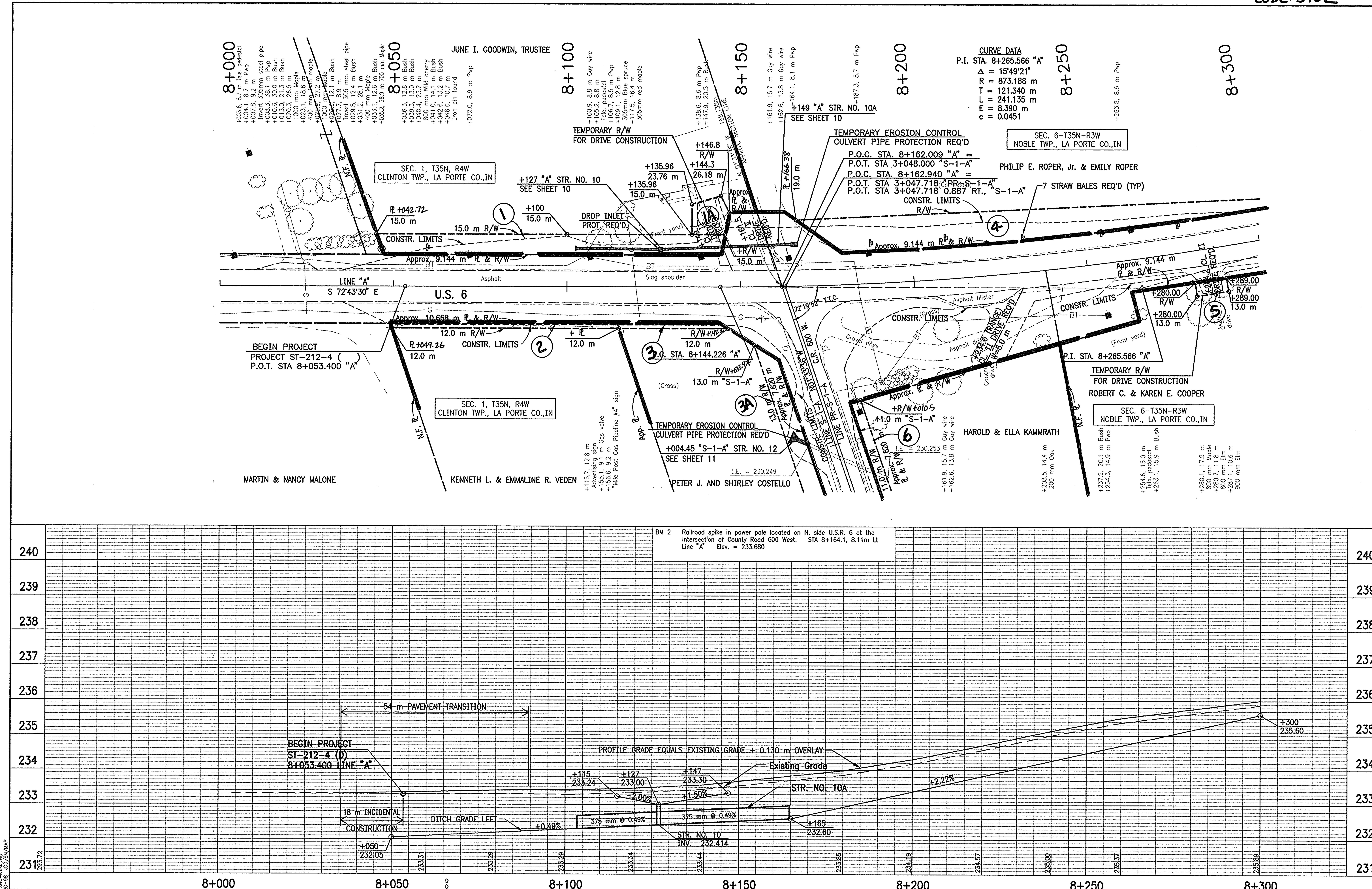
DESIGNED: ______ DRAWN: ______
CHECKED: ______ CHECKED: ______

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1 : 50	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	6 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

CODE: 3702



2	3	4	5
P.O.T. 7+968.474 "A"	P.C. 8+144.226 "A"	P.O.C. 8+162.009 "A" = P.O.T. 3+048.000 "S-1-A"	P.I. 8+265.566 "A"

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER ______ DATE

DESIGNED: ______ DRAWN: ______

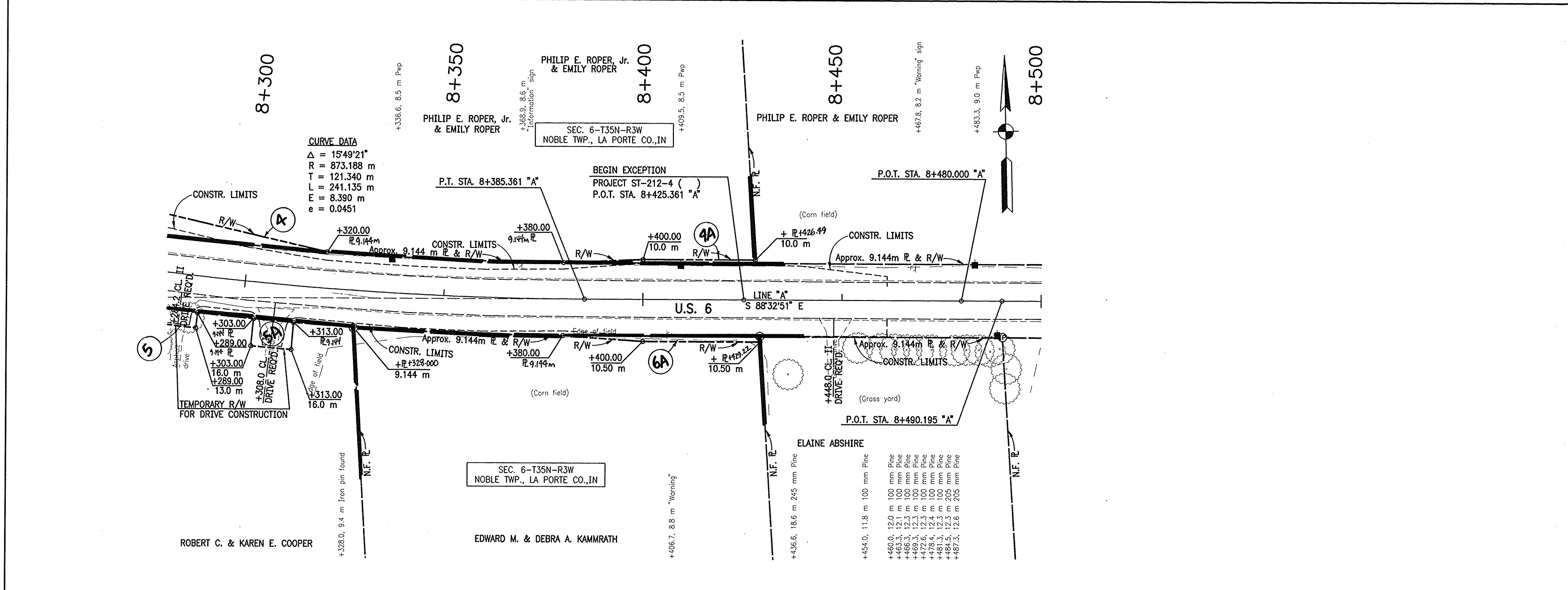
CHECKED: ______ CHECKED: ______

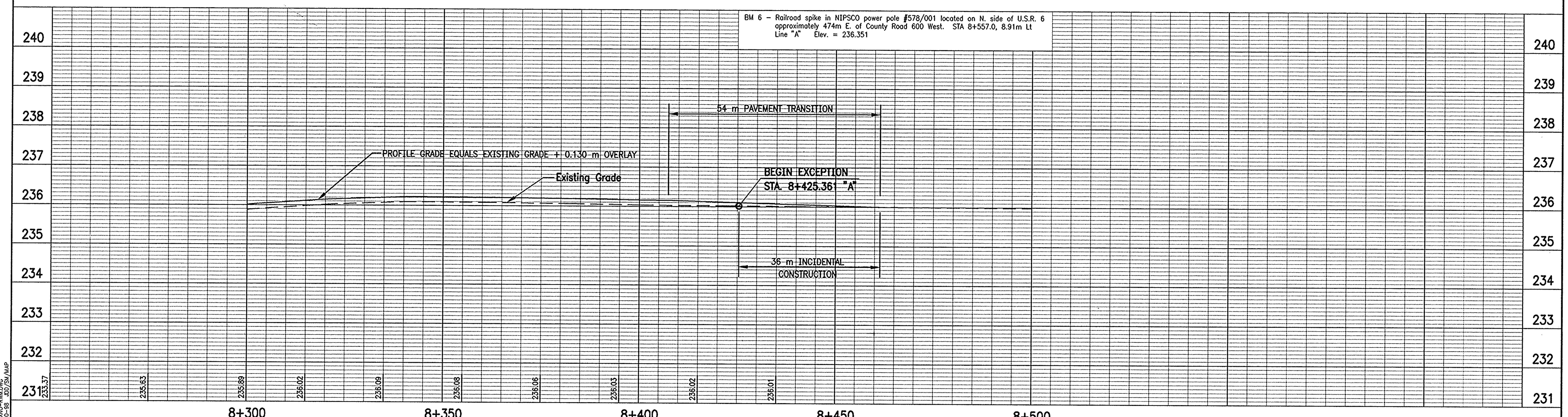
INDIANA DEPARTMENT OF TRANSPORTATION

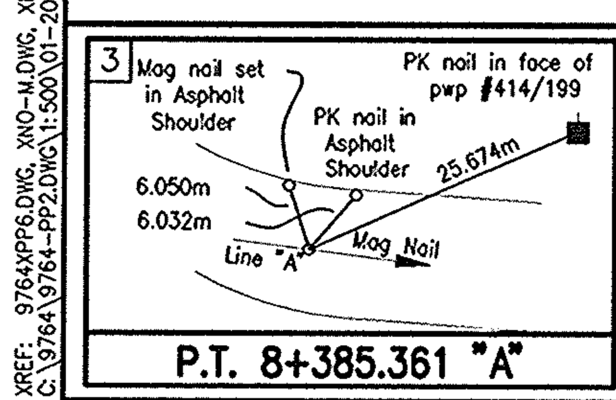
PLAN AND PROFILE
STA. 8+014.093 TO 8+300.0 LINE "A"

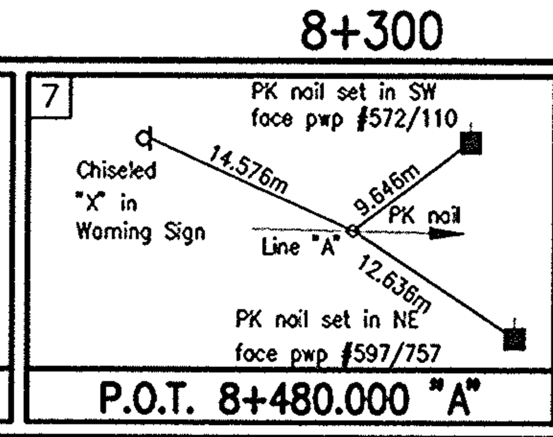
HORIZONTAL SCALE	BRIDGE FILE
1 : 500	
VERTICAL SCALE	DESIGNATION
1 : 50	9301160
SURVEY BOOK	SHEETS
16486	7 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

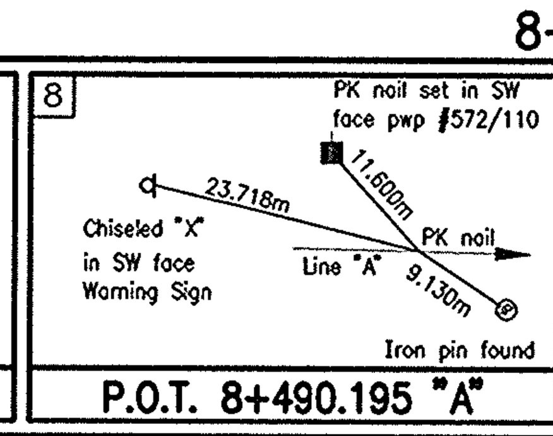
CODE: 3702





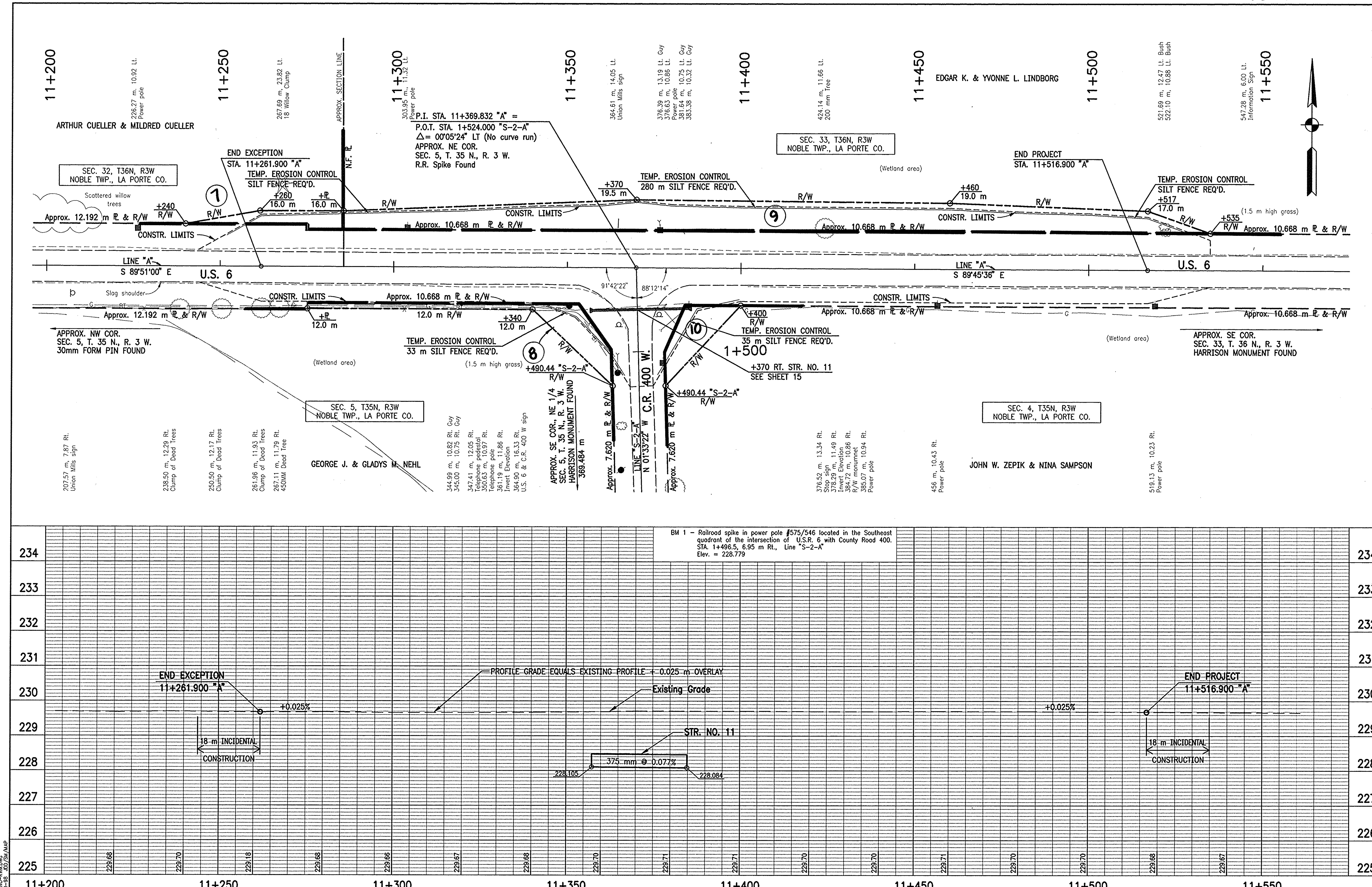


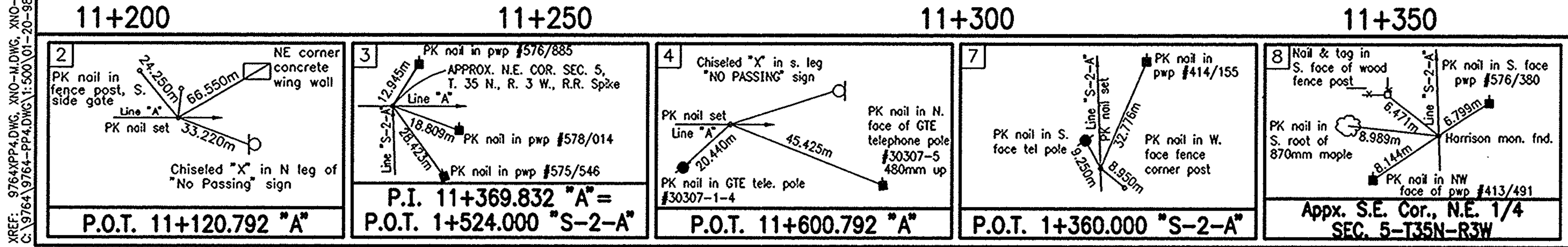




RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1 : 500	BRIDGE FILE
		VERTICAL SCALE 1 : 50	DESIGNATION 9301160
DESIGNED: ____ DRAWN: ____	PLAN AND PROFILE	SURVEY BOOK 16486	SHEETS 8 of 19
CHECKED: ____ CHECKED: ____	STA. 8+300.0 TO 8+490.195 LINE "A"	CONTRACT	PROJECT STP-212-4 (003)

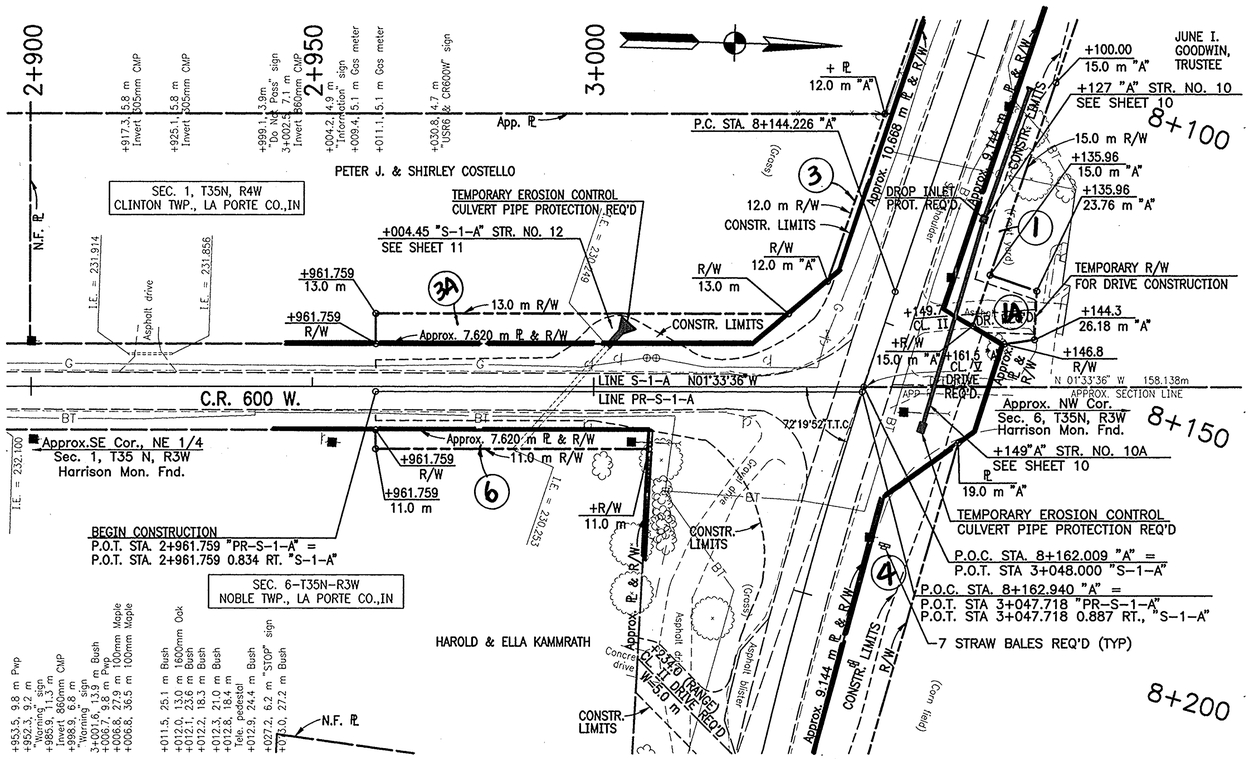
CODE: 3702

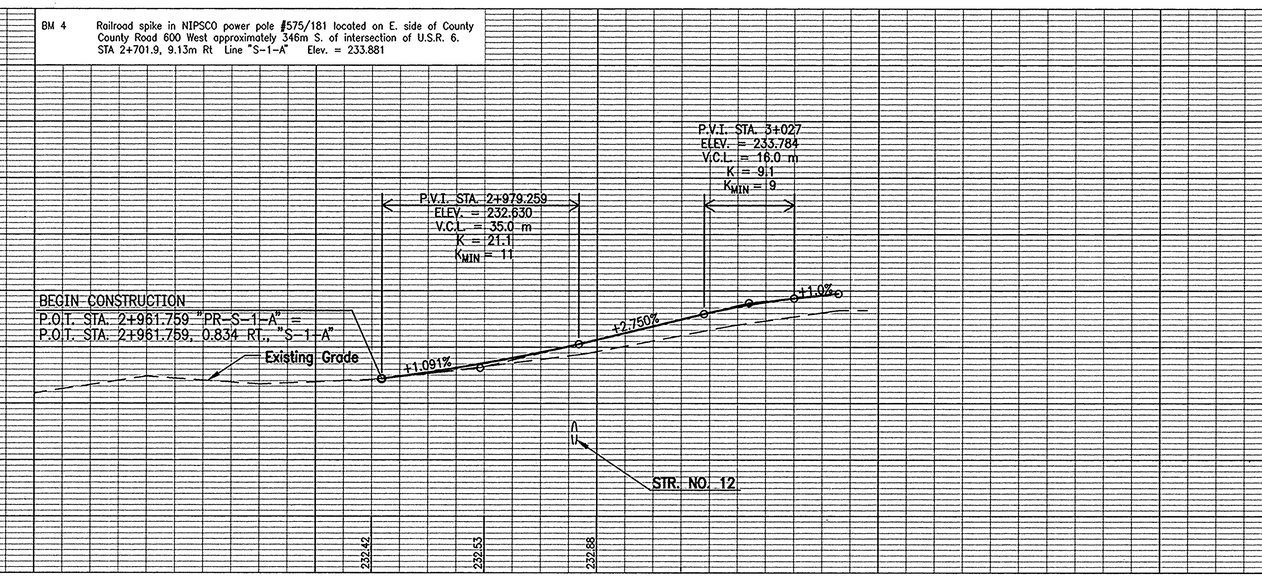


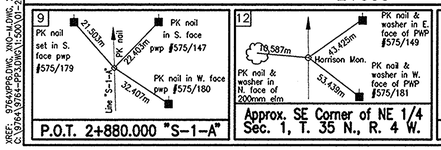


RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE		**INDIANA DEPARTMENT OF TRANSPORTATION**	HORIZONTAL SCALE 1 : 500 / VERTICAL SCALE 1 : 50 / BRIDGE FILE / DESIGNATION 9301160
DESIGNED:	DRAWN:	**PLAN AND PROFILE STA. 11+261.9 TO 11+516.9 LINE "A"**	SURVEY BOOK 16486 / SHEETS 9 of 19
CHECKED:	CHECKED:		CONTRACT / PROJECT STP-212-4 (003)

CODE:3702







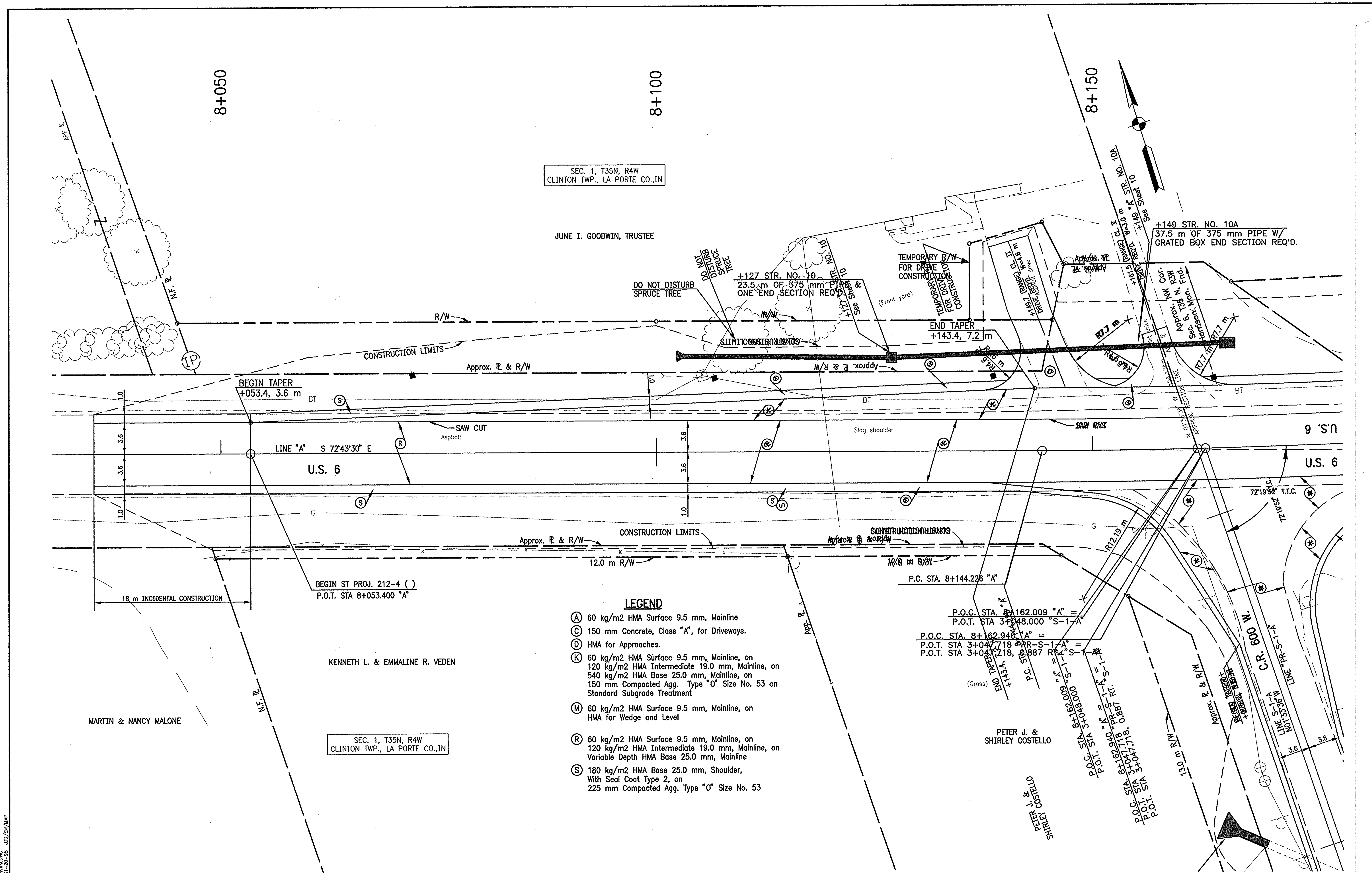
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED:	DRAWN:
CHECKED:	CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE STA. 2+900 TO 3+048 LINE "S-1-A"

HORIZONTAL SCALE	BRIDGE FILE
1 : 500	
VERTICAL SCALE	DESIGNATION
1 : 50	9301160
SURVEY BOOK	SHEETS
16486	10 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

XREF: 9764XP96.DWG, XNO-NLDWG, XNO-RWM.DWG
C:\9764\9764-PP3.DWG\L-500\01-20-98 JDD/SM/MJP



LEGEND

(A) 60 kg/m2 HMA Surface 9.5 mm, Mainline

(C) 150 mm Concrete, Class "A", for Driveways.

(D) HMA for Approaches.

(K) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on
120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on
540 kg/m2 HMA Base 25.0 mm, Mainline, on
150 mm Compacted Agg. Type "O" Size No. 53 on
Standard Subgrade Treatment

(M) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on
HMA for Wedge and Level

(R) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on
120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on
Variable Depth HMA Base 25.0 mm, Mainline

(S) 180 kg/m2 HMA Base 25.0 mm, Shoulder,
With Seal Coat Type 2, on
225 mm Compacted Agg. Type "O" Size No. 53

XREF: 9764XCD6.DWG, XNO-M.DWG, XNO-RWM.DWG
C:\9764\9764-CD6.DWG\VIEW P1\1:200\01-20-98 JDD/SM/MAP

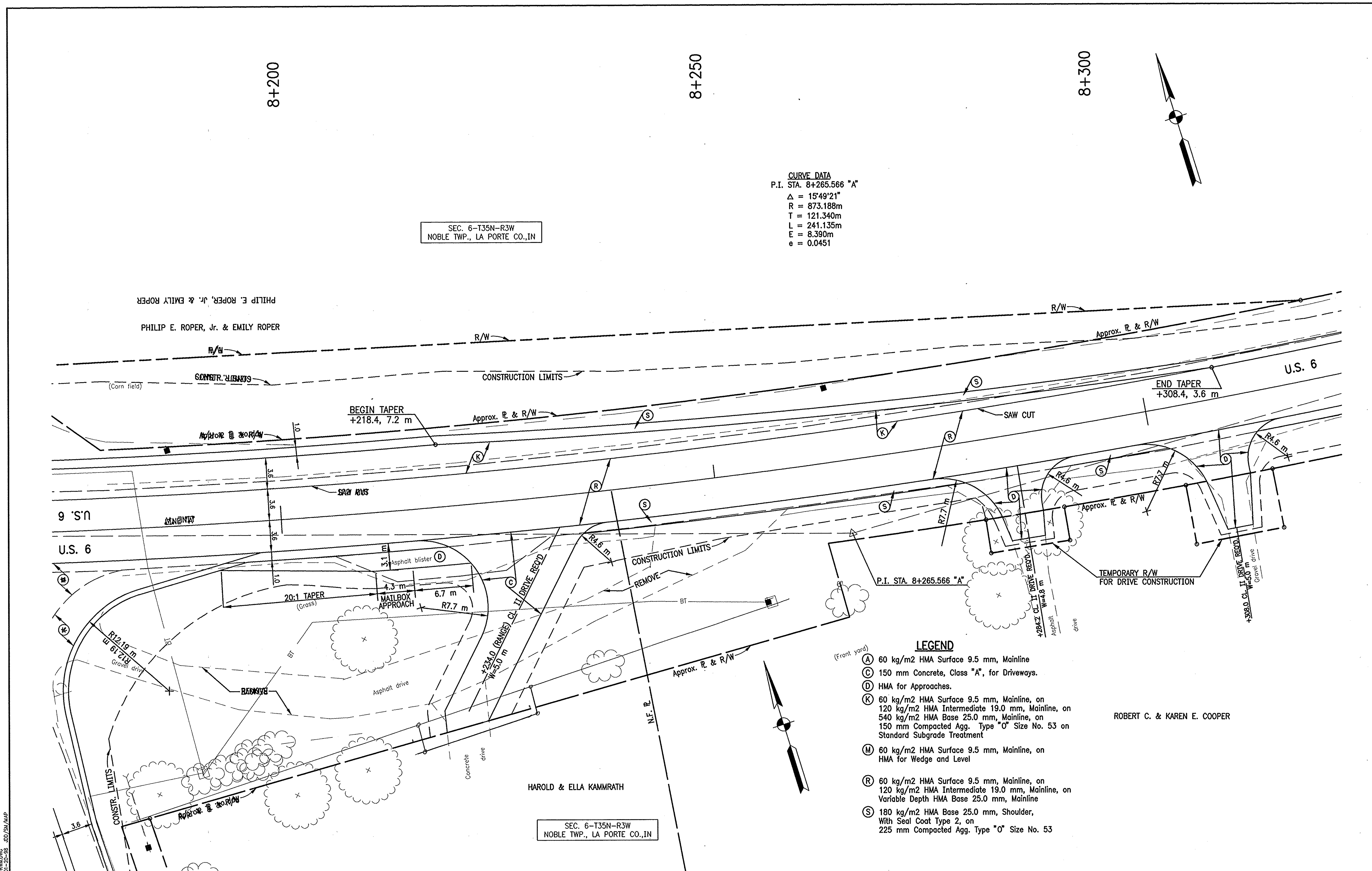
RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER DATE

DESIGNED: ______ DRAWN: ______
CHECKED: ______ CHECKED: ______

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1 : 200	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	11 of 19
CONTRACT	PROJECT
	STP-212-4 (003)



8+200
8+250
8+300
CURVE DATA
P.I. STA. 8+265.566 "A"
Δ = 15°49'21"
R = 873.188m
T = 121.340m
L = 241.135m
E = 8.390m
e = 0.0451
SEC. 6-T35N-R3W
NOBLE TWP., LA PORTE CO.,IN
PHILIP E. ROPER, Jr. & EMILY ROPER
R/W
CONSTRUCTION LIMITS
(Corn field)
Approx. ℞ & R/W
U.S. 6
END TAPER
+308.4, 3.6 m
BEGIN TAPER
+218.4, 7.2 m
SAW CUT
1.0
3.6
3.1 m
Asphalt blister
20:1 TAPER
(Grass)
4.3 m
6.7 m
MAILBOX APPROACH
R7.7 m
R12.19 m
Gravel drive
R4.6 m
+234.0 (RANGE) CL. II DRIVE REQ'D
W=5.0 m
CONSTRUCTION LIMITS
REMOVE
BT
Asphalt drive
Concrete drive
N.F. ℞
P.I. STA. 8+265.566 "A"
TEMPORARY R/W
FOR DRIVE CONSTRUCTION
+284.2 CL. II DRIVE REQ'D
W=4.8 m
Asphalt drive
+308.0 CL. II DRIVE REQ'D
W=5.0 m
Gravel drive
R7.7 m
R4.6 m
(Front yard)
CONSTR. LIMITS
HAROLD & ELLA KAMMRATH
ROBERT C. & KAREN E. COOPER
LEGEND
(A) 60 kg/m2 HMA Surface 9.5 mm, Mainline
(C) 150 mm Concrete, Class "A", for Driveways.
(D) HMA for Approaches.
(K) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on 540 kg/m2 HMA Base 25.0 mm, Mainline, on 150 mm Compacted Agg. Type "O" Size No. 53 on Standard Subgrade Treatment
(M) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on HMA for Wedge and Level
(R) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on Variable Depth HMA Base 25.0 mm, Mainline
(S) 180 kg/m2 HMA Base 25.0 mm, Shoulder, With Seal Coat Type 2, on 225 mm Compacted Agg. Type "O" Size No. 53

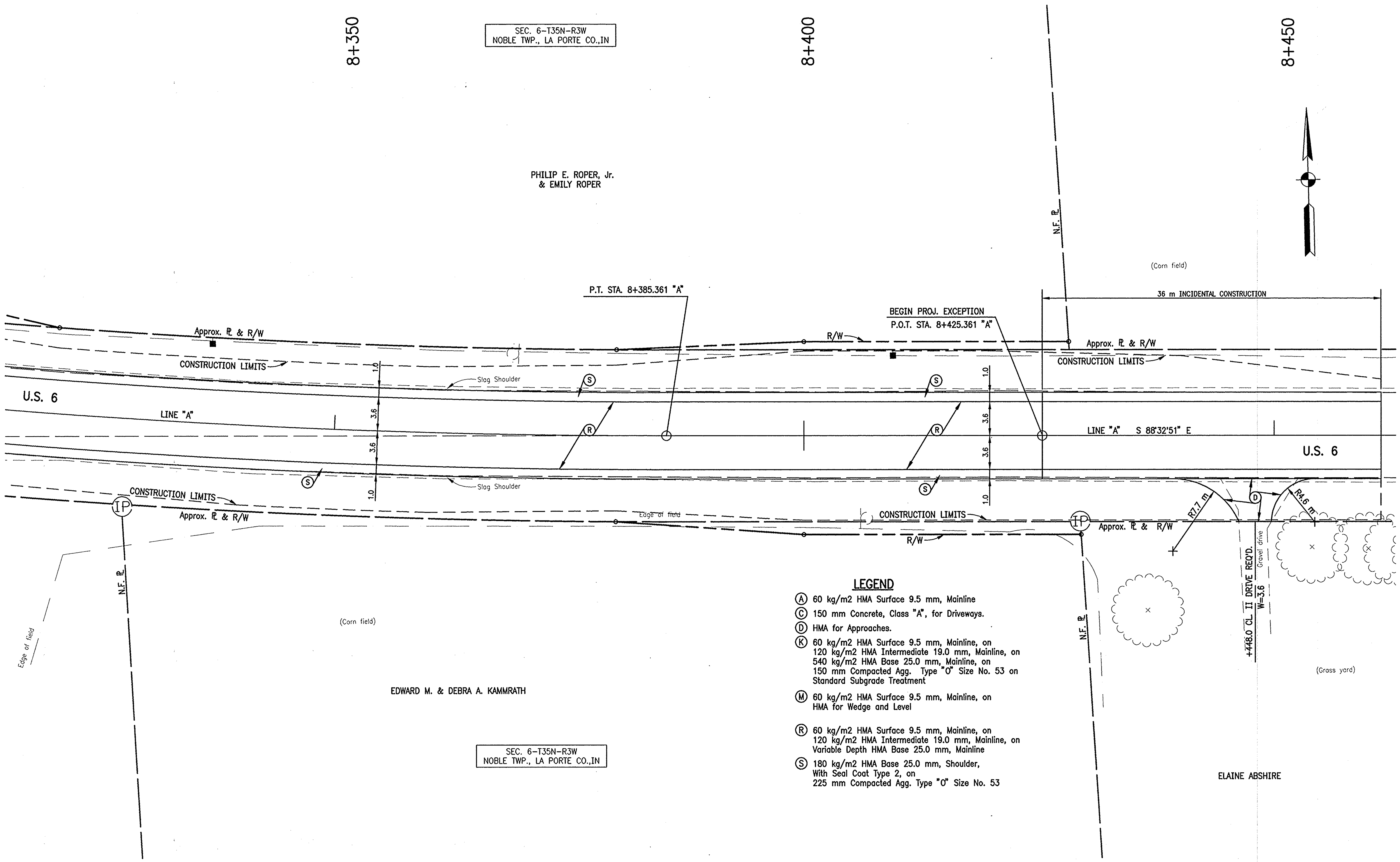
XREF: 9764XC06.DWG, XNO-H.DWG, XNO-RW.DWG
C:\9764\9764-C06.DWG\VIEW P2\1 2001-01-20-98 JDD/SH/MAP

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED:	DRAWN:	
CHECKED:	CHECKED:	

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

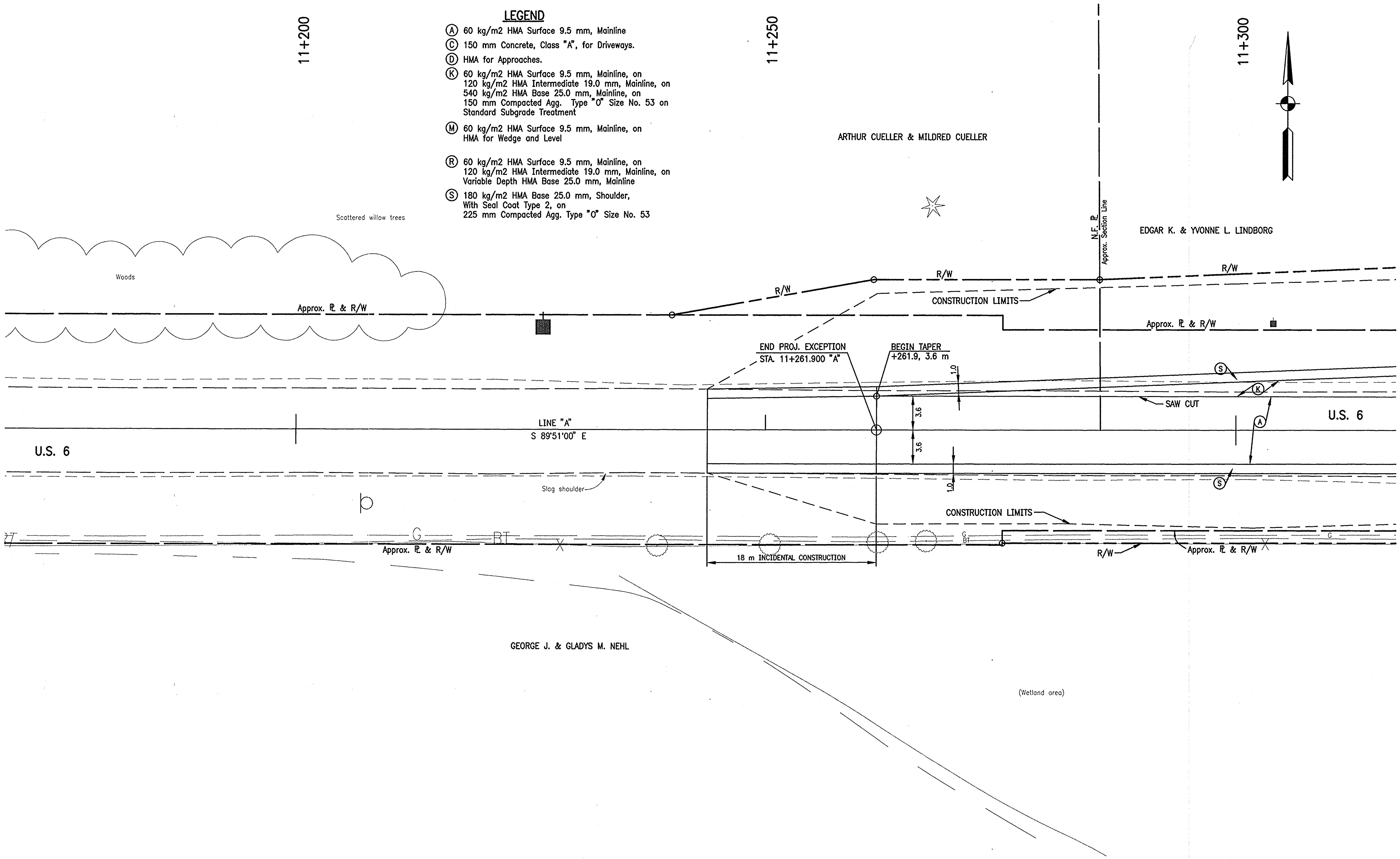
HORIZONTAL SCALE	BRIDGE FILE
1 : 200	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	12 of 19
CONTRACT	PROJECT
	STP-212-4 (003)



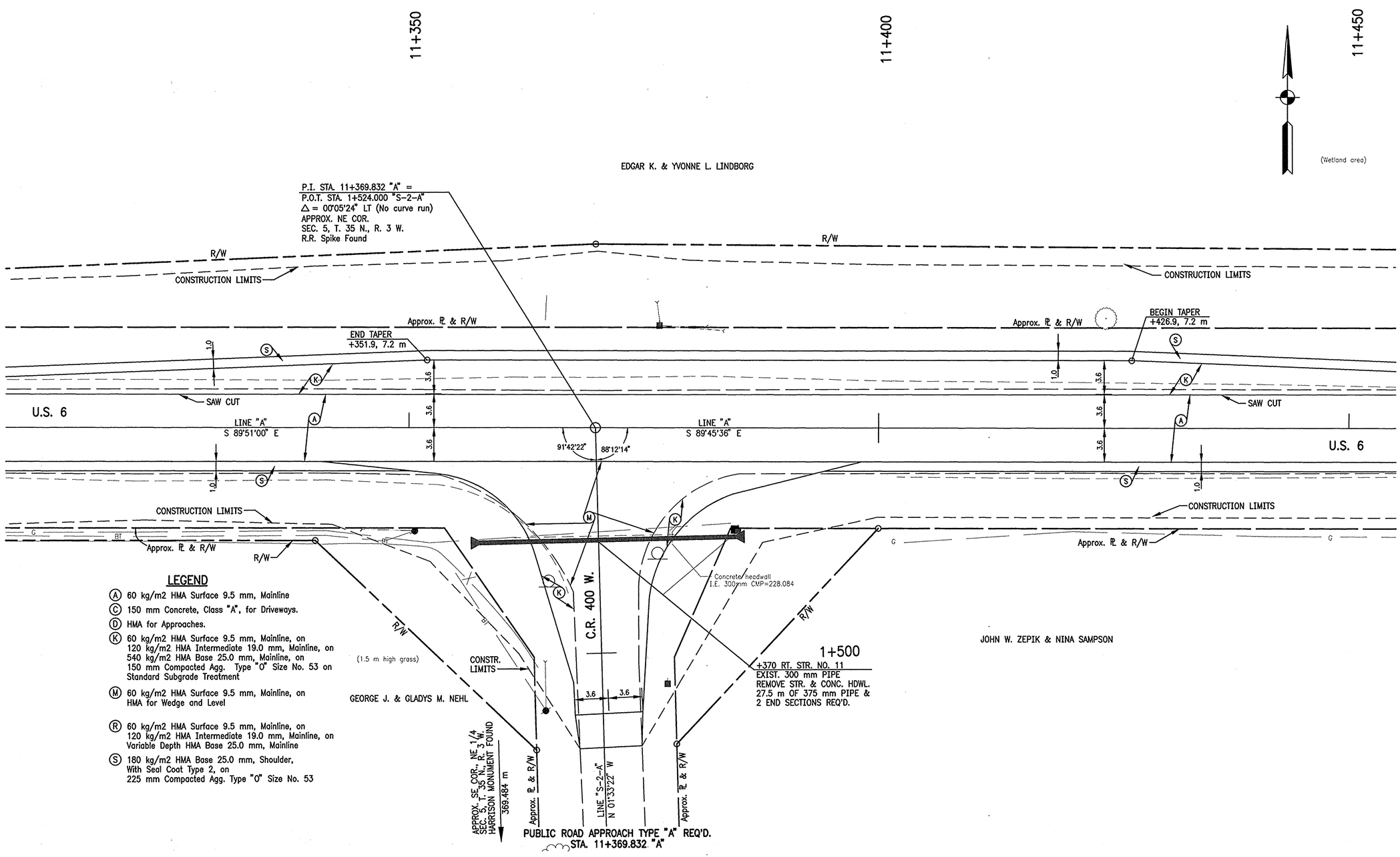
RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1 : 200	BRIDGE FILE
		VERTICAL SCALE	DESIGNATION 9301160
DESIGNED: ____ DRAWN: ____	CONSTRUCTION DETAILS	SURVEY BOOK 16486	SHEETS 13 of 19
CHECKED: ____ CHECKED: ____		CONTRACT	PROJECT STP-212-4 (003)

LEGEND

- (A) 60 kg/m2 HMA Surface 9.5 mm, Mainline
- (C) 150 mm Concrete, Class "A", for Driveways.
- (D) HMA for Approaches.
- (K) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on 540 kg/m2 HMA Base 25.0 mm, Mainline, on 150 mm Compacted Agg. Type "O" Size No. 53 on Standard Subgrade Treatment
- (M) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on HMA for Wedge and Level
- (R) 60 kg/m2 HMA Surface 9.5 mm, Mainline, on 120 kg/m2 HMA Intermediate 19.0 mm, Mainline, on Variable Depth HMA Base 25.0 mm, Mainline
- (S) 180 kg/m2 HMA Base 25.0 mm, Shoulder, With Seal Coat Type 2, on 225 mm Compacted Agg. Type "O" Size No. 53



RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1 : 200 / VERTICAL SCALE / BRIDGE FILE / DESIGNATION 9301160
DESIGNED: ____ DRAWN: ____ CHECKED: ____ CHECKED: ____	CONSTRUCTION DETAILS	SURVEY BOOK 16486 / CONTRACT / SHEETS 14 of 19 / PROJECT STP-212-4 (003)



LEGEND

- (A) 60 kg/m2 HMA Surface 9.5 mm, Mainline
- (C) 150 mm Concrete, Class "A", for Driveways.
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RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

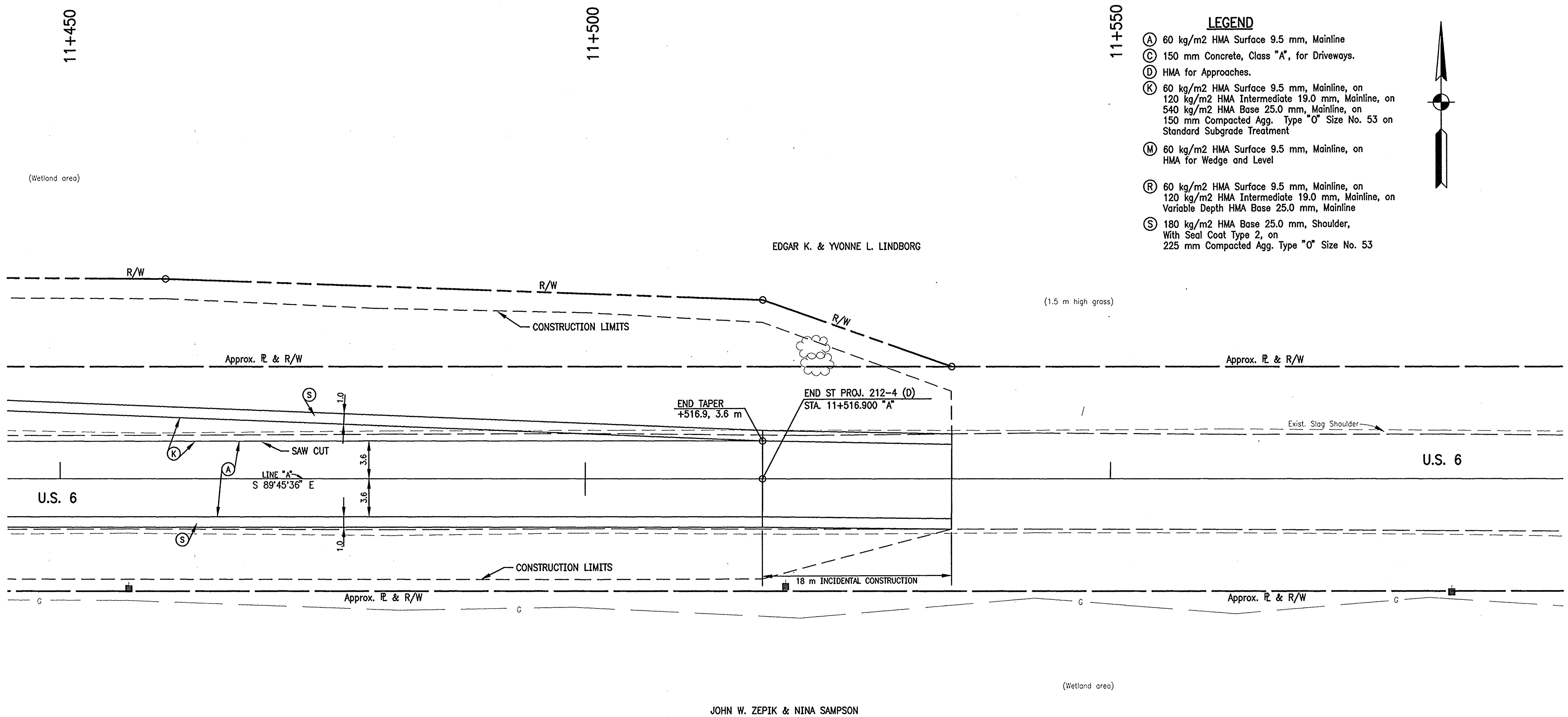
DESIGNED: DRAWN:
CHECKED: CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1 : 200	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	15 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

XREF: 9764XCDA.DWG, XNO-HJ.DWG, XNO-RWALD.DWG
C:\PWA\9764-CDA\DWG\VIEW P2\11-20\01-20-98 JDJ/SJ/AJP



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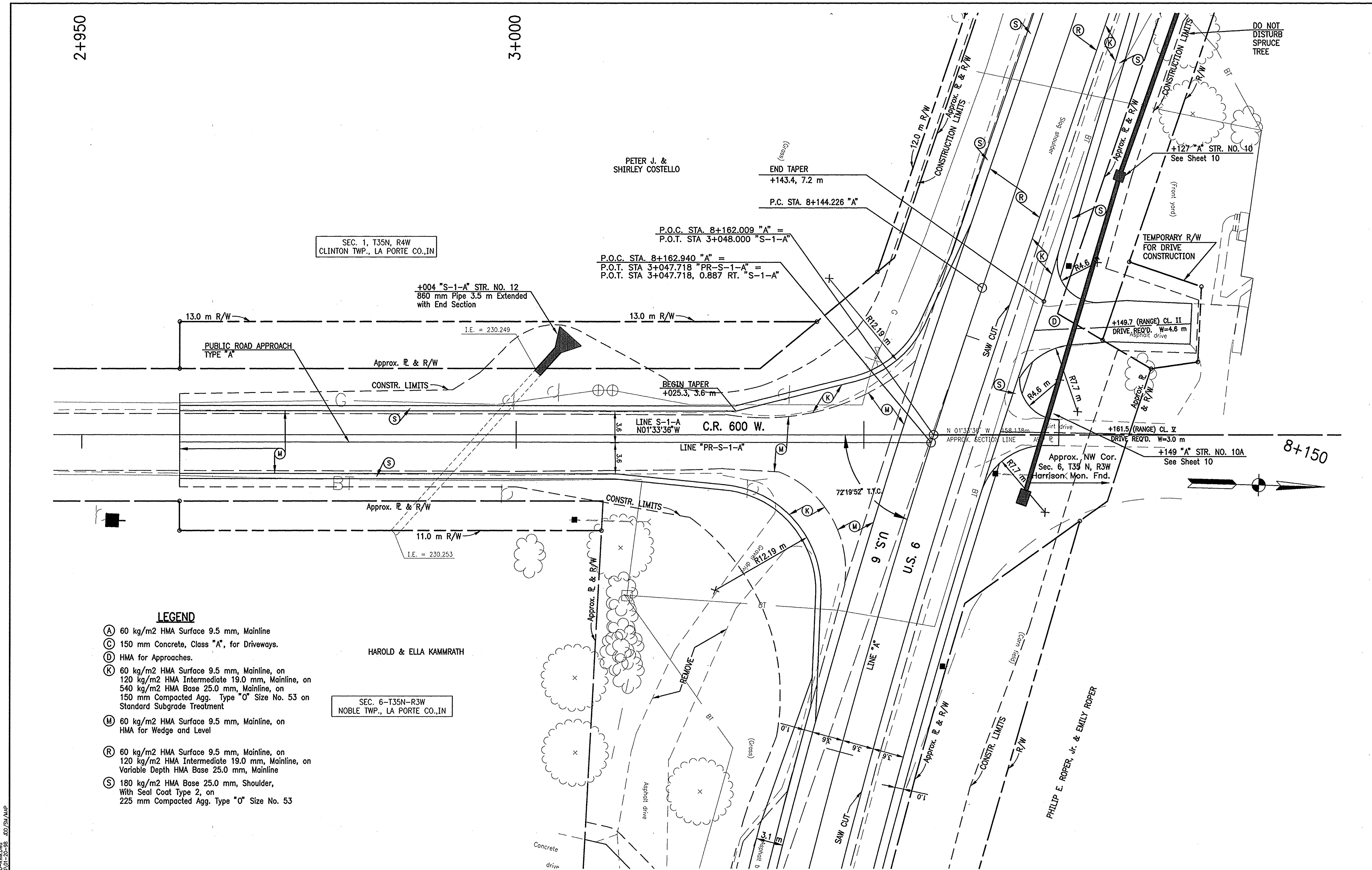
RECOMMENDED FOR APPROVAL ____ DESIGN ENGINEER ____ DATE	
DESIGNED:	DRAWN:
CHECKED:	CHECKED:

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1 : 200	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	16 of 19
CONTRACT	PROJECT
	STP-212-4 (003)



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XREF: 9764\CD6.DWG, 9764\XN0-H.DWG, XN0-RWM.DWG
C:\9764\9764-CD6.DWG\VIEW PA1\ 2001-01-20-98 JDD/SM/MAP

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	
DESIGNED:	DRAWN:	CONSTRUCTION DETAILS	
CHECKED:	CHECKED:		

HORIZONTAL SCALE	BRIDGE FILE
1 : 200	
VERTICAL SCALE	DESIGNATION
	9301160
SURVEY BOOK	SHEETS
16486	17 of 19
CONTRACT	PROJECT
	STP-212-4 (003)

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	STP-212-4 (003)		18	19

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH "W" m	LENGTH "L" m	DISTANCE BEYOND R/W LINE m	RADII "R" m	GRADE (LESS THAN 10% NOT SHOWN) 1 %	GRADE 2 %	EXCAVATION CUT m³	EXCAVATION FILL m³	BITUM. MXT. FOR APPROACHES m²	BITUMINOUS MATERIAL FOR ROADS SURFACE 60 Kg/m² Mg	BASE 120 Kg/m² Mg	BASE 540 Kg/m² Mg	WEDGE & LEVEL Mg	Mg	BITUMINOUS MIXTURE FOR CROSSOVERS m²	m²	m²	BITUMINOUS BASE #53B Mg	COMPACTED AGGREGATE FOR BASE Mg	BITUMINOUS MATERIAL FOR : SEAL COAT Mg	PRIME COAT Mg	TACK COAT Mg	TYPE "O" COMPACTED AGGREGATE FOR BASE NO. 53 Mg	m²	m²	m²	TYPE "O" COMPACTED AGGREGATE FOR SURFACE NO. 73 m²	m²	CALCIUM CHLORIDE Mg	COVER AGGREGATE Mg	REINF. CEMENT CONC. PAVEMENT m²	REINF. CEMENT CONC. PAVEMENT m²	BITUMINOUS STABILIZED SUBBASE m²	SUBBASE m³	150 mm CEMENT CONC. PAVEMENT FOR DRIVEWAYS m²		SURFACE BEYOND R/W LINE TYPE "O" COMP. AGG. BASE NO. 53	BITUMINOUS m²	CONCRETE	
LINE "A"																																										45	
8+149.7, LT	CLASS II DRIVE	4.6	17.7	10.0	4.6 7.7					98																																	
8+161.5, LT	CLASS V DRIVE	3.0	6.8		4.6 7.7																																					
8+215, RT	MAILBOX APPR.									45																																	
8+234.0, RT	CLASS II DRIVE	5	25.0		7.7 4.6					171																																	
8+284.2, RT	CLASS II DRIVE	4.8	11.4	2.8	7.7 4.6					54																																12	
8+308.0, RT	CLASS II DRIVE	5.0	9.4	5.8	7.7 4.6					67																																24	
8+448.0, RT	CLASS II DRIVE	3.6	5.54		7.7 4.6					29																																	
11+369.832, RT	PUBLIC ROAD APPRO. TYPE A				12.19 12.19						26	10	44	21										0.310	29																
MAIN LINE 8+053.4 TO 8+425.4											233	422	611											2.606	248																
11+261.9 TO 11+516.9											162	73	347											1.376	248																
SUBTOTAL										464	421	505	1002	21										4.392	525															81	
LINE "PR-S-1-A" 2+961.7 TO 3+047.7											46	21	101	272										0.724	74																
SUBTOTAL											46	21	101	272										0.724	74																
TOTAL										464	467	526	1103	293										5.016	599															81	

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LEFT	RIGHT	CROSS	SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH (m)	SKEW	COVER (m)	FLOW LINE: UP STREAM ELEV.	FLOW LINE: DOWN STREAM ELEV.	SERVICE LIFE (YR.)	SITE DESIGNATION	pH	BACKFILL METHOD	B BORROW FOR STR. BACKFILL (m^3)	REVETMENT RIPRAP (Mg)	CONCRETE, CLASS A, FOR STRUCTURES (m^3)	PIPE END SECTION (EA.)	GRATED BOX END SECTION: TYPE	GRATED BOX END SECTION: SLOPE	GRATED BOX END SECTION: EA.	SAFETY METAL END SECTION: SLOPE	SAFETY METAL END SECTION: EA.	CONNECT TO STR. NO.	REMARKS
10	8+127	X			375 mm	2	INLET TYPE F-7	23.5			232.414	231.996				2	2.5			1							
10A	8+149	X			375 mm	2		37.5			232.600	232.414				2	4.0				II	10:1	1			10	
11	11+370		X		375 mm	1		27.5		0.83	228.105	228.084				1	15.9			2							REMOVE EXISTING PIPE & HEADWALLS
12	3+004 S-1-A			X	860 mm	1		3.5				230.249				1	7.2			1							EXTEND EXISTING PIPE

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER DATE

DESIGNED: ______ DRAWN: ______

CHECKED: ______ CHECKED: ______

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DATA

HORIZONTAL SCALE	BRIDGE FILE
1:200	
VERTICAL SCALE	DESIGNATION
1:200	9301160
SURVEY BOOK	SHEETS
16486	19 of 19
CONTRACT	PROJECT
	STP-2202-44 (003)

XREF: XNO-M.DWG, XNO-RWM.DWG C:/9764/9764-STR.DWG/1:200/01-20-98 SM MJF JDO MAP