SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

FOR THE

CITY OF WEST LAFAYETTE

TRAFFIC DATA	Salisbury St.	Navajo St.
A.A.D.T. – 2011	11,500 V.P.D.	6,000 V.P.D.
D.H.V. – 2011	1,300 V.P.H.	480 V.P.H.
DIRECTIONAL DISTRIBUTION	60 %	55 %
TRUCKS	2 % D.H.V.	2 % D.H.V.
	2 % A.A.D.T.	2 % A.A.D.T.
DESIGN DATA		
DESIGN SPEED	30 M.P.H.	30 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON–FREEWAY)	3R (NON–FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	COLLECTOR
RURAL/URBAN	URBAN (INTERMEDIATE)	URBAN (INTERMEDIATE)
TERRAIN	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE

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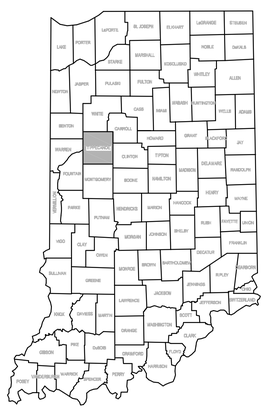
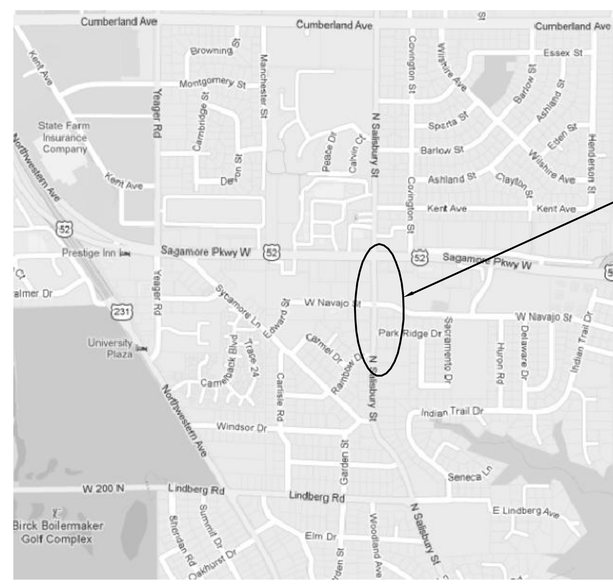


STATE LOCATION MAP

SCALE: NONE



VICINITY MAP

SCALE: NONE

WESSLER ENGINEERING

More than a Project™

WEST LAFAYETTE
144 Sagamore Parkway West
West Lafayette, Indiana 47906
Phone: 765-463-2400 - Fax: 765-463-2455
www.wesslerengineering.com

6219 South East Street
Indianapolis, Indiana 46227
Phone: 317-788-4551 - Fax: 317-788-4553
www.wesslerengineering.com

PROJECT NO. 139310-04-001

BOARD OF PUBLIC WORKS & SAFETY

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RECOMMENDED FOR APPROVAL:

DAVID M. BUCK, P.E. DATE
PUBLIC WORKS DIRECTOR

OCTOBER 24, 2013

NO.	DATE	INITIALS	DESCRIPTION

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

JEREMY A. BURNS
REGISTERED ENGINEER STATE OF INDIANA NO. 10403969

LEGEND

EXIST. SYMBOL	NEW SYMBOL	DESCRIPTION	EXIST. SYMBOL	NEW SYMBOL	DESCRIPTION
BM		BENCH MARK			GROUND LIGHT
TBM		TEMPORARY BENCH MARK	M		MAILBOX
SB 01		SOIL BORING LOCATION	M M		DOUBLE/MULTIPLE MAILBOX
		SECTION CORNER			SIGN – SINGLE POST
CP		CONTROL POINT (SET/FOUND)			SIGN – DOUBLE POST
MN		MAGNETIC NAIL (SET/FOUND)			SIGN – RAILROAD SIGNAL
BS		BOAT SPIKE (SET/FOUND)			SIGN – RAILROAD CROSSING
PN		PK NAIL (SET/FOUND)			TREE – CONIFEROUS
RS		RAILROAD SPIKE (SET/FOUND)			TREE – DECIDUOUS
R/W		R/W MARKER – CONCRETE/GRANITE/STONE			BUSH
		IRON PIPE (w/ DIA.)/IRON PIN/REBAR (w/ DIA.)	849	849	CONTOUR – INTERMEDIATE ELEVATION
CTV		CABLE TV MANHOLE	850	850	CONTOUR – INDEX ELEVATION
E		ELECTRIC MANHOLE	W		WATER MAIN
G		GAS MANHOLE	W	W	WATER SERVICE
W		WATER MANHOLE	G		GAS MAIN
T		TELEPHONE MANHOLE	P		PETROLEUM MAIN
T	T	TRAFFIC MANHOLE	OHT		OVERHEAD TELEPHONE
H		TRAFFIC HANDHOLE	UGT		UNDERGROUND TELEPHONE
S	S	SANITARY SEWER MANHOLE	OHC		OVERHEAD CABLE TV
D	D	DRAINAGE/STORM SEWER MANHOLE	UGC		UNDERGROUND CABLE TV
C.O.	C.O.	SANITARY SEWER CLEANOUT	OHE		OVERHEAD ELECTRIC
		CURB/DROP INLET	UGE		UNDERGROUND ELECTRIC
		CATCH BASIN	UGF		UNDERGROUND FIBER OPTIC
G.M.		GAS METER			SANITARY SEWER PIPE
GV		GAS VALVE			DRAINAGE/STORM SEWER PIPE
G.S.O.		GAS SERVICE VALVE			TOP OF BANK/TOE OF SLOPE
PV		PETROLEUM VALVE			CENTERLINE OF DITCH/SWALE/STREAM
P.S.O.		PETROLEUM SHUTOFF VALVE			FENCE – FIELD
MW		GAS STATION MONITORING WELL			FENCE – METAL
FC		GAS STATION FILL CAP			FENCE – WOOD
GW		NATURAL GAS WELL/STORAGE WELL			FENCE – SILT
W.M.	W.M.	WATER METER			TREE/BRUSH LINE
WV	WV	WATER VALVE			GUARDRAIL
W.S.O.	W.S.O.	WATER SERVICE VALVE			RIGHT-OF-WAY – TEMPORARY/PERMANENT
W	W	WATER WELL			EASEMENT – CONSTRUCTION/PERMANENT
F.H.	F.H.	FIRE HYDRANT			PROPERTY BOUNDARY
CS		CISTERN			LOT BOUNDARY
E.M.		ELECTRIC METER			SECTION BOUNDARY
E.M.		ELECTRIC METER			STRAW BALE
		UTILITY PEDESTAL (DEFINED BY UTILITY)			INLET PROTECTION
		UTILITY MARKER (DEFINED BY UTILITY)			EROSION CONTROL BLANKET
		JOINT POWER/TELEPHONE POLE		6045	FINISH FLOOR ELEVATION – PROFILE
		LIGHT POLE		437	SANITARY LATERAL LOCATION LABEL
		LIGHT ON POWER POLE			
		LIGHT ON JOINT POLE			
		POWER POLE			
		TELEPHONE POLE			
		GUY ANCHOR			
		FLAG POLE			
		POST			
		LAMP POST			

GENERAL NOTES:

1. ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. HOWEVER, THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, ALL INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY. DETERMINE WHICH UTILITIES MAY CONFLICT WITH THE WORK AND VERIFY THEIR LOCATION, SIZE, ELEVATION, ETC; ADJUST WORK ACCORDINGLY; AND NOTIFY THE ENGINEER OF ANY CONFLICTS AND/OR ADJUSTMENTS. REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS RELATIVE TO THE ABOVE.
2. EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE PLANS. ASSUME THAT UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
3. COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
4. COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND/OR PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE, BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
5. USE CAUTION TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND/OR PRIVATE FACILITIES DAMAGED AS A RESULT OF CONTRACTOR'S OPERATIONS.
6. USE CAUTION TO PREVENT DAMAGE TO STATE, COUNTY, CITY OR PRIVATE PROPERTY. BE RESPONSIBLE FOR ALL DAMAGES, AS A RESULT OF OPERATIONS, TO STATE, COUNTY, CITY, OR PRIVATE PROPERTY, INCLUDING DRAINAGE STRUCTURES AND FIELD TILES. BE RESPONSIBLE FOR DAMAGES TO LANDSCAPING (INCLUDING FENCING) AS A RESULT OF WORK. REPAIR AND/OR REPLACE DAMAGED ITEMS AT CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AD/OR REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER, AND THE ENGINEER.
7. INSTALL WORK IN COMPLIANCE WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
8. ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION WILL BE REMOVED FROM THE SITE. DISPOSE OF THE REMOVED EQUIPMENT/APPURTENANCES AT A LOCATION APPROVED FOR SUCH DISPOSAL. SUCH DISPOSAL SHALL BE AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
9. VERIFY EXISTING STORM AND SANITARY SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES OR CONFLICTS, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES OR CONFLICTS AS SOON AS POSSIBLE.
10. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
11. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
12. COORDINATE WITH THE ELECTRIC/TELEPHONE UTILITIES TO REMOVE AND REINSTALL GUY WIRES DURING CONSTRUCTION, AND TEMPORARILY SUPPORT UTILITY POLES IF REQUIRED BY THE RESPECTIVE UTILITIES. INCLUDE THIS COST (IF ANY) IN THE CONTRACTOR'S BID.
13. BRING ANY CONFLICTING INFORMATION THAT BECOMES APPARENT IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
14. ANY ALTERATIONS TO THESE PLANS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE PLANS.
15. DO NOT SCALE FROM THE PLANS.

Indiana 811
Know what's below.
Call before you dig.

TABLE OF ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ALUM.	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP.	APPARENT	LB	POUND(S)
APPROX.	APPROXIMATE(LY)	LFT	LINEAR FEET
ASPH.	ASPHALT	LN.	LANE
ASSOC.	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	M.E.	MATCH EXISTING
AVE.	AVENUE	M.J.	MECHANICAL JOINT
AVG	AVERAGE	MATL.	MATERIAL
BLDG	BUILDING	MAX.	MAXIMUM
BLVD.	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN.	MINIMUM
C.O.	CLEANOUT	MISC.	MISCELLANEOUS
CI	CAST IRON	N	NORTHING, NORTH
CL	CENTER LINE	NGS	NATIONAL GEODETIC SURVEY
CMA	COLD MIX ASPHALT	NO.	NUMBER
CMP	CORRUGATED METAL PIPE	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	O.D.	OUTSIDE DIAMETER
CONC.	CONCRETE	P.C.	BEGINNING OF CURVE
CONT.	CONTINUOUS	P.E.	POLYETHYLENE
COR.	CORNER	P.I.	TANGENT/TANGENT INTERSECTION
CP	CONTROL POINT	P.O.T.	POINT ON TANGENT
CPP	CORRUGATED PLASTIC PIPE	P.T.	CURVE/TANGENT INTERSECTION
CR. STN.	CRUSHED STONE	PSI	POUNDS PER SQUARE INCH
CYD	CUBIC YARD	PT.	POINT
D	DEPTH	PVC	POLYVINYL CHLORIDE
D.I.	DUCTILE IRON	R	RADIUS
D.I.M.J.	DUCTILE IRON MECHANICAL JOINT	R/W	RIGHT-OF-WAY
DBL.	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DIA.	DIAMETER	RD.	ROAD
DIP	DUCTILE IRON PIPE	S	SOUTH
DPS	DUCTILE IRON PIPE SIZE	S.R.	STATE ROUTE
DR.	DRIVE	S.S.	STAINLESS STEEL
E	EASTING, EAST	S.V.A.	SERVICE VALVE ASSEMBLY
E.F.	EACH FACE	SB	SOIL BORING
E.W.	EACH WAY	SCH.	SCHEDULE
EA.	EACH	SDR	STANDARD DIMENSION RATIO
EJIW	EAST JORDAN IRON WORKS	SEC.	SECTION
EL.	ELEVATION	SFT.	SQUARE FEET
EXIST. / EX.	EXISTING	SHT.	SHEET
EXP.	EXPANSION	SPECS.	SPECIFICATION(S)
F.F.E.	FINISH FLOOR ELEVATION	SQ.	SQUARE
F.M.	FORCE MAIN	SRF	STATE REVOLVING FUND
FND.	FOUND	ST.	STREET
FT.	FEET	STA.	STATION
FTG	FOOTING	SYD	SQUARE YARD
GALV.	GALVANIZED	SYS.	SQUARE YARDS
GPS	GLOBAL POSITIONING SYSTEM	TBM	TEMPORARY BENCHMARK
HMA	HOT MIX ASPHALT	TC	TOP OF CASTING
HDPE	HIGH DENSITY POLYETHYLENE	TYP.	TYPICAL
HORZ.	HORIZONTAL	USGS	U.S. GEOLOGICAL SURVEY
I.D.	INSIDE DIAMETER	VERT.	VERTICAL
IE	INVERT ELEVATION	VLV	VALVE
INC.	INCORPORATED	W	WIDTH, WEST
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	WSEL	WATER SURFACE ELEVATION
INSTR.	INSTRUMENT	YR.	YEAR
INV.	INVERT		

***NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.**

UTILITIES

COMCAST CABLE
ATTN: JERRY SHUTTERS
jerry_shutters@cable.comcast.com
1002 E CENTER ROAD
KOKOMO, IN 46902
1-765-455-5935

DUKE ENERGY – ELECTRIC
ATTN: BRIAN FUNK
brian.funk@duke-energy.com
3395 GREENBUSH ST.
LAFAYETTE, IN 47905
1-765-454-6175

FRONTIER COMMUNICATIONS
ATTN: TED FOSTER
ted.foster@ftr.com
3216 IMPERIAL PARKWAY
LAFAYETTE, IN 47909
1-765-423-3537

INDIANA DATALINE CORPORATION
ATTN: OLIVER BEERS
ojb@indianadataline.com
427 NORTH 6TH ST.
LAFAYETTE, IN 47901
1-765-742-8428

PURDUE UNIVERSITY
ATTN: JIM KNAPP
kvstull@purdue.edu
423 SOUTH GRANT ST.
WEST LAFAYETTE, IN 47907
1-765-494-7329

VECTREN CORPORATION
ATTN: DERON LESLIE
dleslie@vectren.com
1250 SOUTH CREASY LANE
LAFAYETTE, IN 47905
1-765-449-5630

METRONET
ATTN: JEFF KETTERER
jeffrey.ketterer@metronetinc.com
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
1-317-903-0481

INDIANA AMERICAN WATER WEST LAFAYETTE
ATTN: JACQUELYNE SANDERS
jacquelyne.sanders@amwater.com
555 E COUNTY LINE ROAD SUITE 201
GREENWOOD, IN 46143
1-317-807-2462

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE

ISSUE DATE
OCTOBER 24, 2013
PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS
REGISTERED
No. 10403969
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
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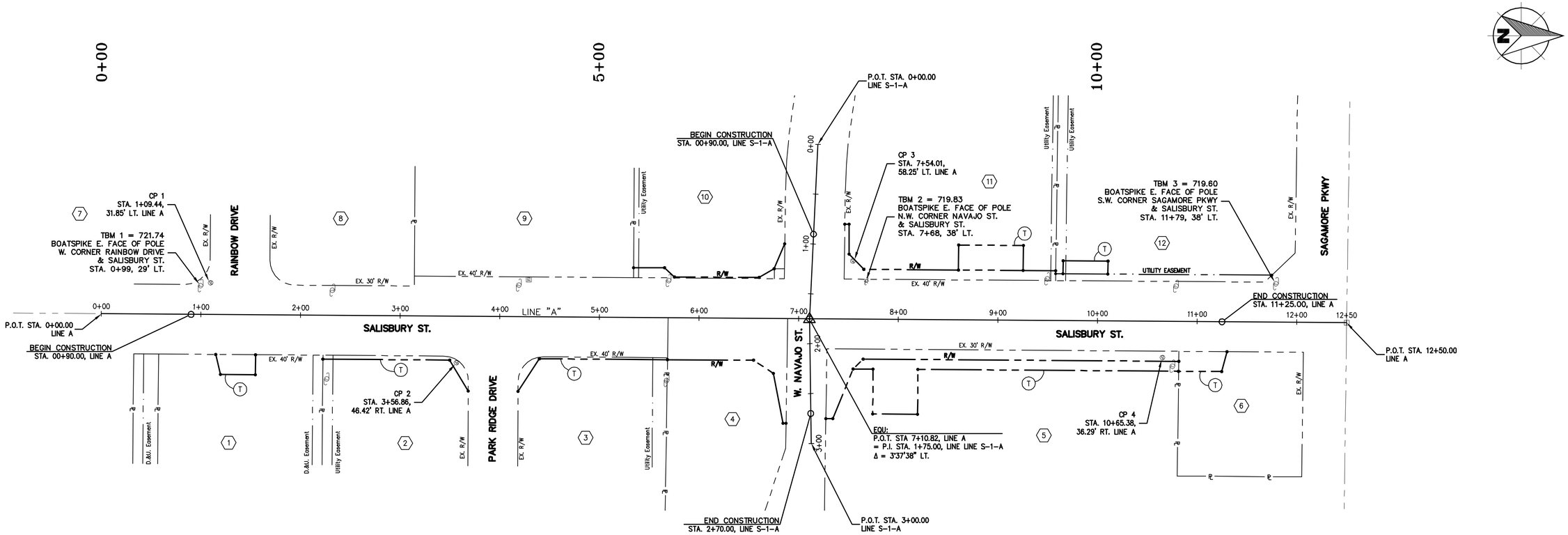
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3
CITY OF WEST LAFAYETTE

INDEX & LEGEND

SHEET NO. **02**
TOTAL SHEETS 35



T TEMPORARY R/W

PROPERTY OWNERS

1. HARLAN R. DAY & HEATHER F. DAY
2. RICHARD SCOTT HOSLER & HEATHER M. HOSLER
3. VINCENT J. MARTIN & LORI L. MARTIN
4. CITY OF WEST LAFAYETTE, INDIANA
5. WABASH VILLAGE, INC.
6. GERALD R. BOUGHER TRUST & JUDITH A. BOUGHER TRUST
7. LARRY R. BERGMAN
8. KOH S. KNOX
9. CITY OF WEST LAFAYETTE, INDIANA
10. ED-AN PROPERTIES, INC.
11. HUNTINGTON NATIONAL BANK OF INDIANA
12. ED-AN PROPERTIES, INC.

COORDINATE DATA

DESCRIPTION	NORTHING	EASTING	ELEV.	REMARKS
CONTROL POINTS				
CP 1	1894717.069	2999357.930	720.06	#5 REBAR SET
CP 2	1894963.924	2999437.967	721.22	#5 REBAR SET
CP 3	1895361.818	2999336.128	720.39	#5 REBAR SET
CP 4	1895672.498	2999432.891	719.77	#5 REBAR SET
LINE "A" (SALISBURY ST.)				
P.O.T. STA. 0+00.00	1894607.409	2999389.000		
P.O.T. STA. 12+50.00	1895857.377	2999397.921		
LINE "S-1-A" (NAVAJO ST.)				
P.O.T. STA. 0+00.00	1895326.719	2999219.227		
P.I. STA. 1+75.00	1895318.212	2999394.072		
P.O.T. STA. 3+00.00	1895320.049	2999519.070		

CP AND TBM NOTE:

A FIELD SURVEY WAS PERFORMED IN JUNE 2012.

INDIANA STATE PLANE, WEST ZONE (NAD 83) COORDINATES ARE BASED ON NGS HARN MONUMENT "Q 94" (PID LB0933) AND ELEV. = 609.22' (NAVO 88)

UNITS ARE U.S. SURVEY FEET.

CONTROL POINTS WERE SET USING GPS.

A LEVEL LOOP WAS PERFORMED ON CONTROL POINTS AND TBM.

R/W NOTE:

RIGHT-OF-WAY LINES ARE BASED ON RECORDED PLATS AND DEEDS. SEE LOCATION CONTROL ROUTE SURVEY PLAT RECORDED AS INSTRUMENT NUMBER 201313022572 ON 09/30/2013 FOR MORE INFORMATION.

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE
1"=500'
0 250 500 1000

ISSUE DATE
OCTOBER 24, 2013

PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS
REGISTERED
No. 10403969
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
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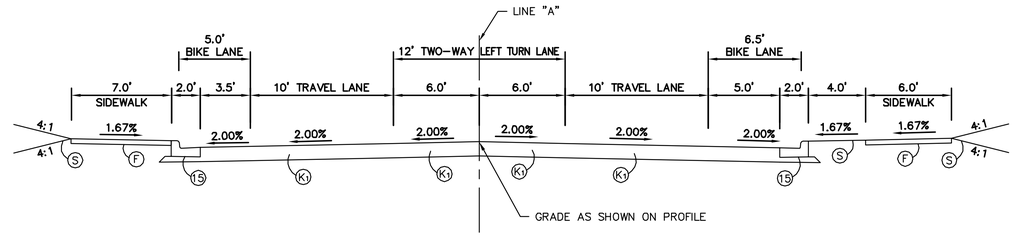
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

LOCATION PLAN

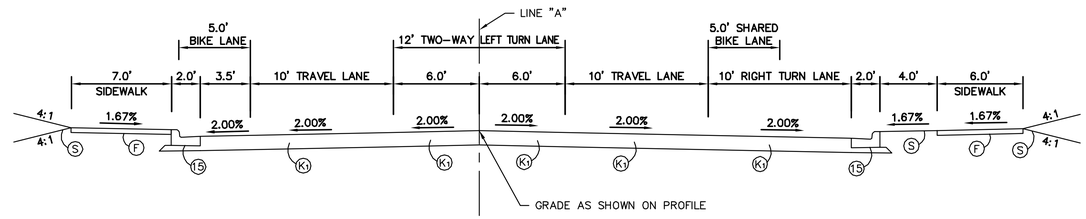
SHEET NO.
03

TOTAL SHEETS
35



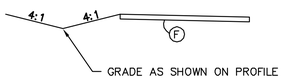
TYPICAL CROSS SECTION

STA. 0+90 TO STA. 2+57, LINE "A"



TYPICAL CROSS SECTION

STA. 2+57 TO STA. 4+50, LINE "A"



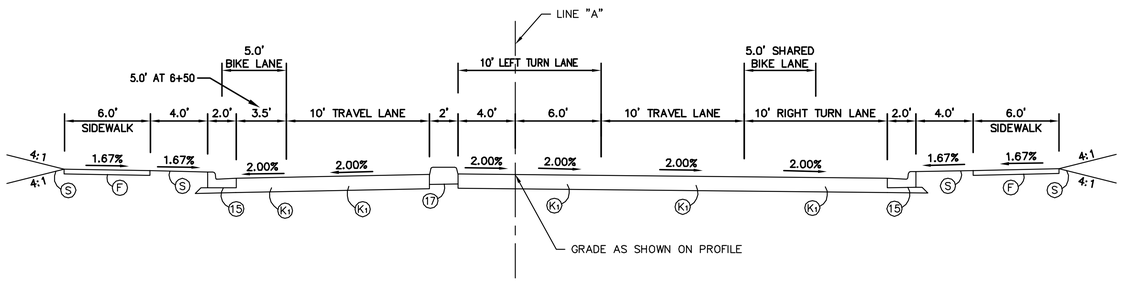
TYPICAL V-DITCH SECTION

STA. 1+63 TO STA. 2+00, LT., LINE "A"
STA. 3+60 TO STA. 4+25, LT., LINE "A"

APPROXIMATE LIMITS OF SUBGRADE TREATMENT	
Station	
FROM	TO
LINE A	
0+90	3+50
5+00	7+10
9+50	11+25
LINE S1	
0+90	1+32
2+20	2+70

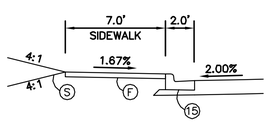
APPROXIMATE LIMITS OF RUBBLIZATION	
Station	
FROM	TO
LINE A	
3+50	5+00
7+10	9+50
LINE S1	
1+32	1+52
2+01	2+20

NOTE: RUBBLIZED PCCP MAY BE USED AS BACKFILL



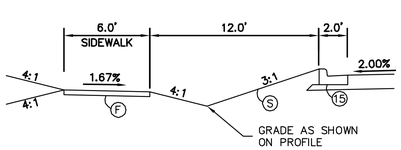
TYPICAL CROSS SECTION

STA. 4+50 TO STA. 7+11, LINE "A"



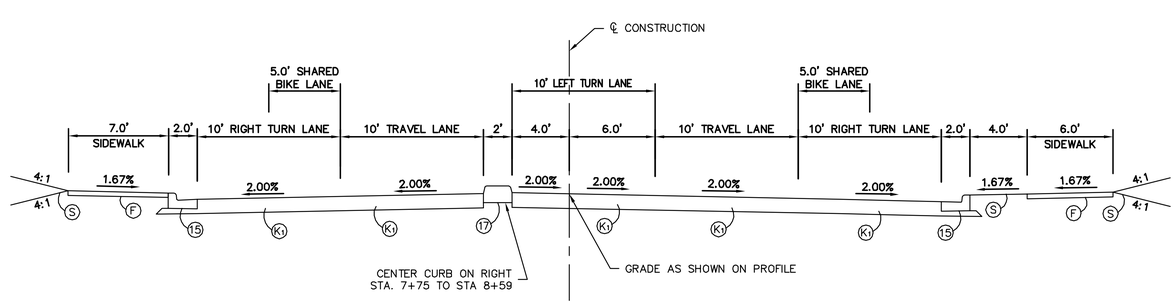
TYPICAL CROSS SECTION

STA. 4+50 TO STA. 5+94, LINE "A"



TYPICAL CROSS SECTION

STA. 7+75 TO STA. 8+75, LINE "A"



TYPICAL CROSS SECTION

STA. 7+11 TO STA. 11+25, LINE "A"

LEGEND

- (K1) PAVEMENT SECTION, LINE "A" AND LINE "S-1-A"
  165 LB./SYD. HMA, SURFACE, TYPE B, ON
  275 LB./SYD. HMA, INTERMEDIATE, TYPE B, ON
  880 LB./SYD. HMA, BASE, TYPE B, ON
  SUBGRADE TREATMENT, TYPE IIIA OR
  RECYCLED RUBBLIZED CONCRETE
- (K3) RESURFACE SECTION
  165 LB./SYD. HMA, SURFACE, TYPE B, ON
  1.5" MILLING
- (15) COMBINED CONCRETE CURB AND GUTTER
- (17) CONCRETE CENTER CURB, TYPE D
- (F) 4" CONCRETE SIDEWALK
- (S) SODDING

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE
1"=5'

ISSUE DATE
OCTOBER 24, 2013

PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

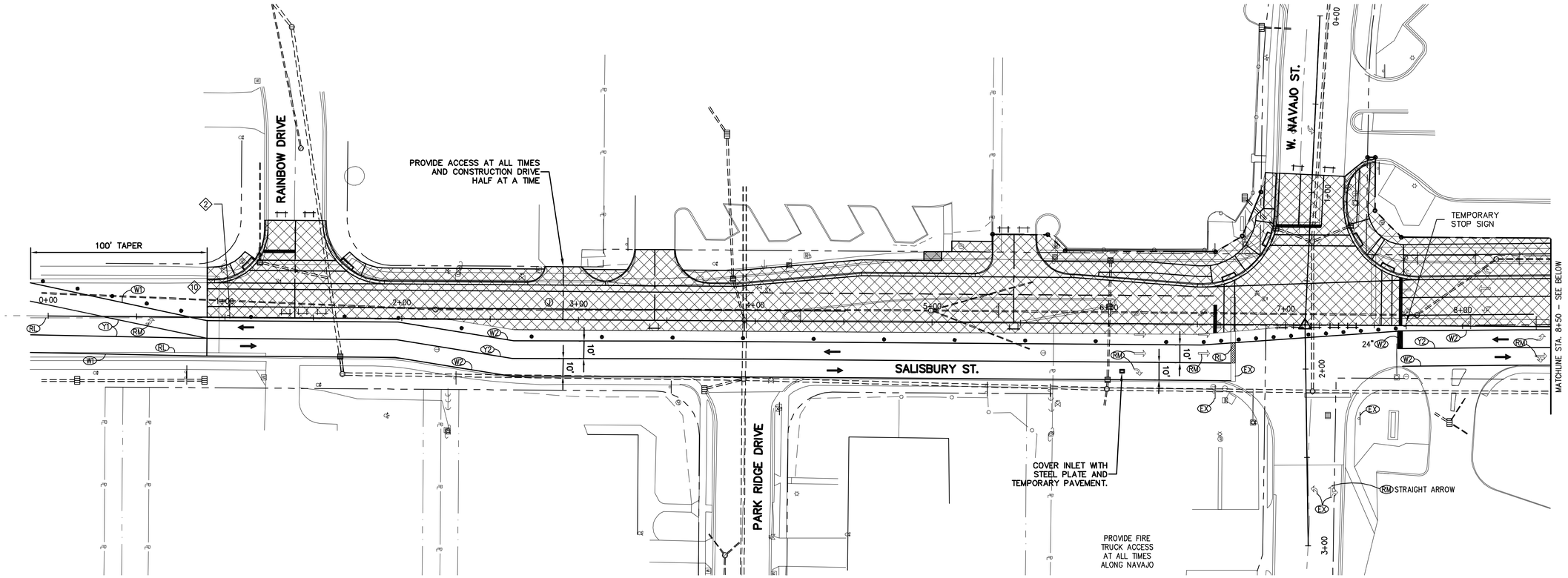
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

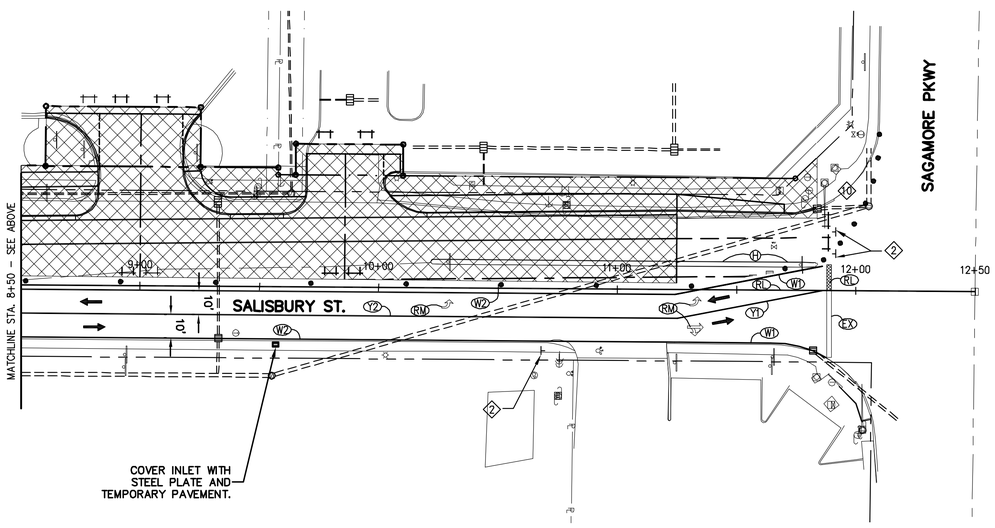
TYPICAL CROSS SECTIONS

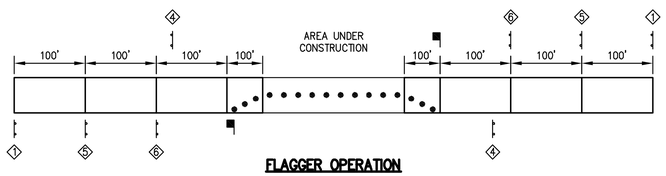
SHEET NO. **04**

TOTAL SHEETS 35



NOTE: INTERSECTION OF SALISBURY STREET AND NAVAJO STREET WILL BE A 3-WAY STOP DURING CONSTRUCTION





FLAGGER OPERATION

SCALE: NONE

TYPICAL LEGEND FOR TCP

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- (1) W20-1 "ROAD CONSTRUCTION AHEAD"
- (2) W1-4-A (R or L) WITH W13-1 "30 MPH"
- (3) W20-3 "ROAD CLOSED AHEAD" (SALISBURY)
- (4) G20-2 "END CONSTRUCTION"
- (5) W20-4 "ONE LANE ROAD AHEAD"
- (6) W20-7A "FLAGGER SIGN"
- (7) W20-2 "DETOUR AHEAD"
- (8) G20-7A "WORKSITE ADDED PENALTY"
- (9) R11-2 "ROAD CLOSED"
- (10) R11-4 "ROAD CLOSED TO THRU TRAFFIC"
- BARRICADE TYPE IIIA
- TRAFFIC CONTROL BARREL
- TRAFFIC FLOW DIRECTION
- (H) HMA FOR TEMPORARY PAVEMENT 440 LB./SYD. HMA INTERMEDIATE, TYPE B
- (J) UNDISTRIBUTED COMPACTED AGGREGATE NO. 53, TEMPORARY FOR ACCESS
- (Y1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (YELLOW)
- (W1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (WHITE)
- (Y2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (YELLOW)
- (W2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (WHITE)
- (EX) USE EXISTING PAVEMENT MARKING
- (RL) REMOVAL OF LINE
- (RM) REMOVAL PAVEMENT MARKINGS
- FLAGGER
- RESET SIGNAL HEAD
- EXISTING PAVEMENT MARKINGS
- ROAD CLOSURE SIGN ASSEMBLY

TRAFFIC CONTROL NOTES:

1. INSTALL NEW WATER MAIN AND STORM SEWER ACROSS PHASE 1, UTILIZING THE FLAGGER OPERATION.
2. PATCH ROAD CUTS ACROSS PHASE 1 WITH HMA FOR TEMPORARY PAVEMENT.
3. INSTALL CENTER CURB AND HMA SURFACE AFTER PHASE 2, UTILIZING THE FLAGGER OPERATION.

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=30' (0 15 30 60)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

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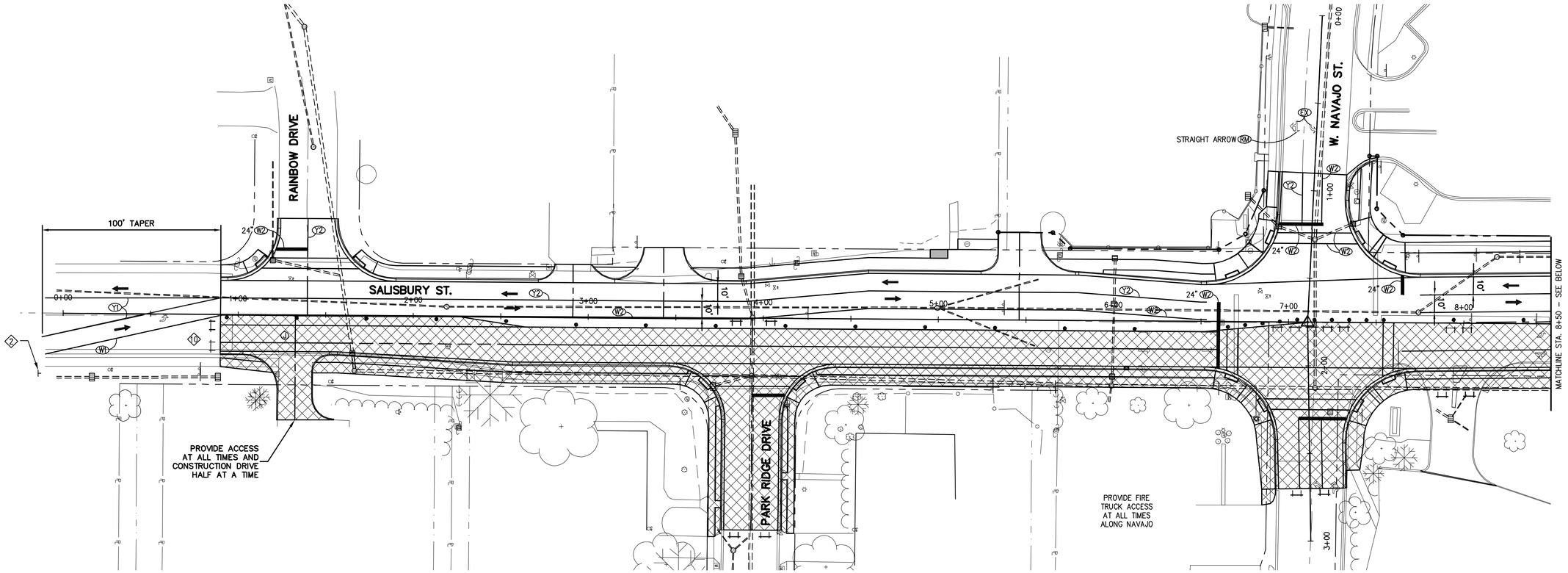
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

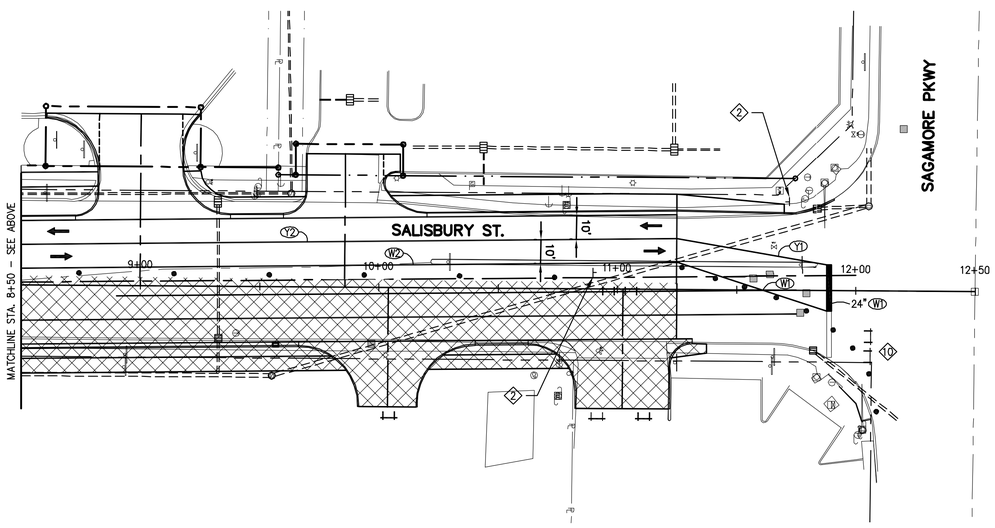
TRAFFIC CONTROL PLAN PHASE 1

SHEET NO. 05

TOTAL SHEETS 35



NOTE: INTERSECTION OF SALISBURY STREET AND NAVAJO STREET WILL BE A 3-WAY STOP DURING CONSTRUCTION



TYPICAL LEGEND FOR TCP

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- (1) W20-1 "ROAD CONSTRUCTION AHEAD"
- (2) W1-4-A (R or L) WITH W13-1 "30 MPH"
- (3) W20-3 "ROAD CLOSED AHEAD" (SALISBURY)
- (4) G20-2 "END CONSTRUCTION"
- (5) W20-4 "ONE LANE ROAD AHEAD"
- (6) W20-7A "FLAGGER SIGN"
- (7) W20-2 "DETOUR AHEAD"
- (8) G20-7A "WORKSITE ADDED PENALTY"
- (9) R11-2 "ROAD CLOSED"
- (10) R11-4 "ROAD CLOSED TO THRU TRAFFIC"
- BARRICADE TYPE IIIA
- TRAFFIC CONTROL BARREL
- TRAFFIC FLOW DIRECTION
- (H) HMA FOR TEMPORARY PAVEMENT 440 LB./SYD. HMA INTERMEDIATE, TYPE B
- (J) UNDISTRIBUTED COMPACTED AGGREGATE NO. 53, TEMPORARY FOR ACCESS
- (Y1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (YELLOW)
- (W1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (WHITE)
- (Y2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (YELLOW)
- (W2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (WHITE)
- (EX) USE EXISTING PAVEMENT MARKING
- (RL) REMOVAL OF LINE
- (RM) REMOVAL PAVEMENT MARKINGS
- FLAGGER
- RESET SIGNAL HEAD
- EXISTING PAVEMENT MARKINGS
- ROAD CLOSURE SIGN ASSEMBLY

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=30' (0, 15, 30, 60)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

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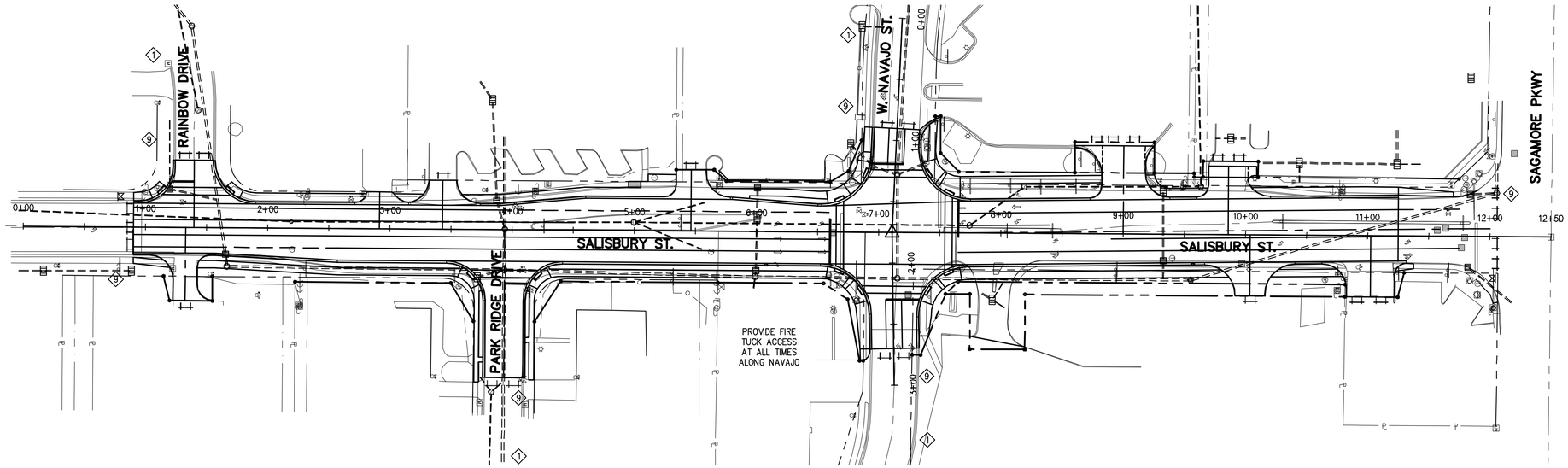
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

TRAFFIC CONTROL PLAN PHASE 2

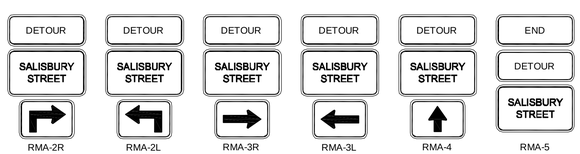
SHEET NO. 06

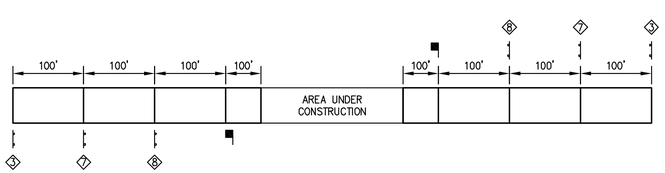
TOTAL SHEETS 35



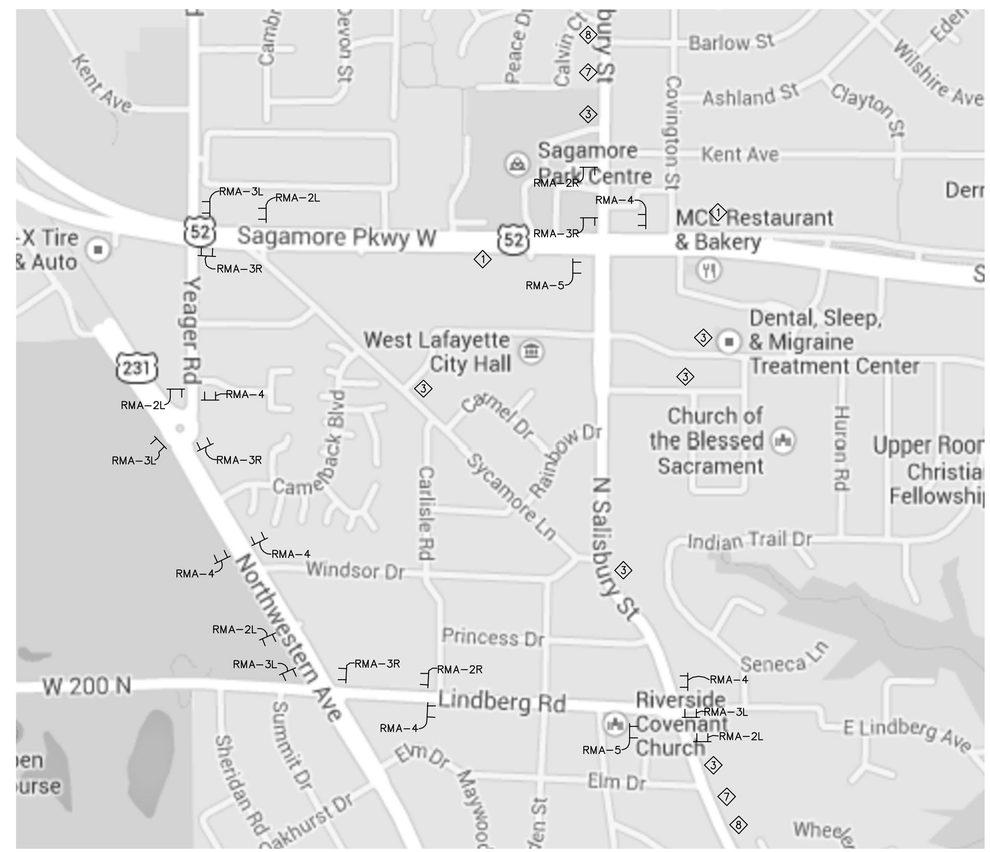
TYPICAL LEGEND FOR TCP

- WORK AREA(S)
- TYPE A CONSTRUCTION WARNING LIGHT
- (1) W20-1 "ROAD CONSTRUCTION AHEAD"
- (2) W1-4-A (R or L) WITH W13-1 "30 MPH"
- (3) W20-3 "ROAD CLOSED AHEAD" (SALISBURY)
- (4) G20-2 "END CONSTRUCTION"
- (5) W20-4 "ONE LANE ROAD AHEAD"
- (6) W20-7A "FLAGGER SIGN"
- (7) W20-2 "DETOUR AHEAD"
- (8) G20-7A "WORKSITE ADDED PENALTY"
- (9) R11-2 "ROAD CLOSED"
- (10) R11-4 "ROAD CLOSED TO THRU TRAFFIC"
- BARRICADE TYPE IIIA
- TRAFFIC CONTROL BARREL
- TRAFFIC FLOW DIRECTION
- (H) HMA FOR TEMPORARY PAVEMENT 440 LB./SYD. HMA INTERMEDIATE, TYPE B
- (U) UNDISTRIBUTED COMPACTED AGGREGATE NO. 53, TEMPORARY FOR ACCESS
- (Y1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (YELLOW)
- (W1) TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (WHITE)
- (Y2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (YELLOW)
- (W2) TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (WHITE)
- (EX) USE EXISTING PAVEMENT MARKING
- (RL) REMOVAL OF LINE
- (RM) REMOVAL PAVEMENT MARKINGS
- FLAGGER
- RESET SIGNAL HEAD
- EXISTING PAVEMENT MARKINGS
- ROAD CLOSURE SIGN ASSEMBLY





CONSTRUCTION SIGN PLACEMENT
SCALE: NONE



DETOUR PLAN
SCALE: 1"=600'

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=50' (0 25 50 100)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

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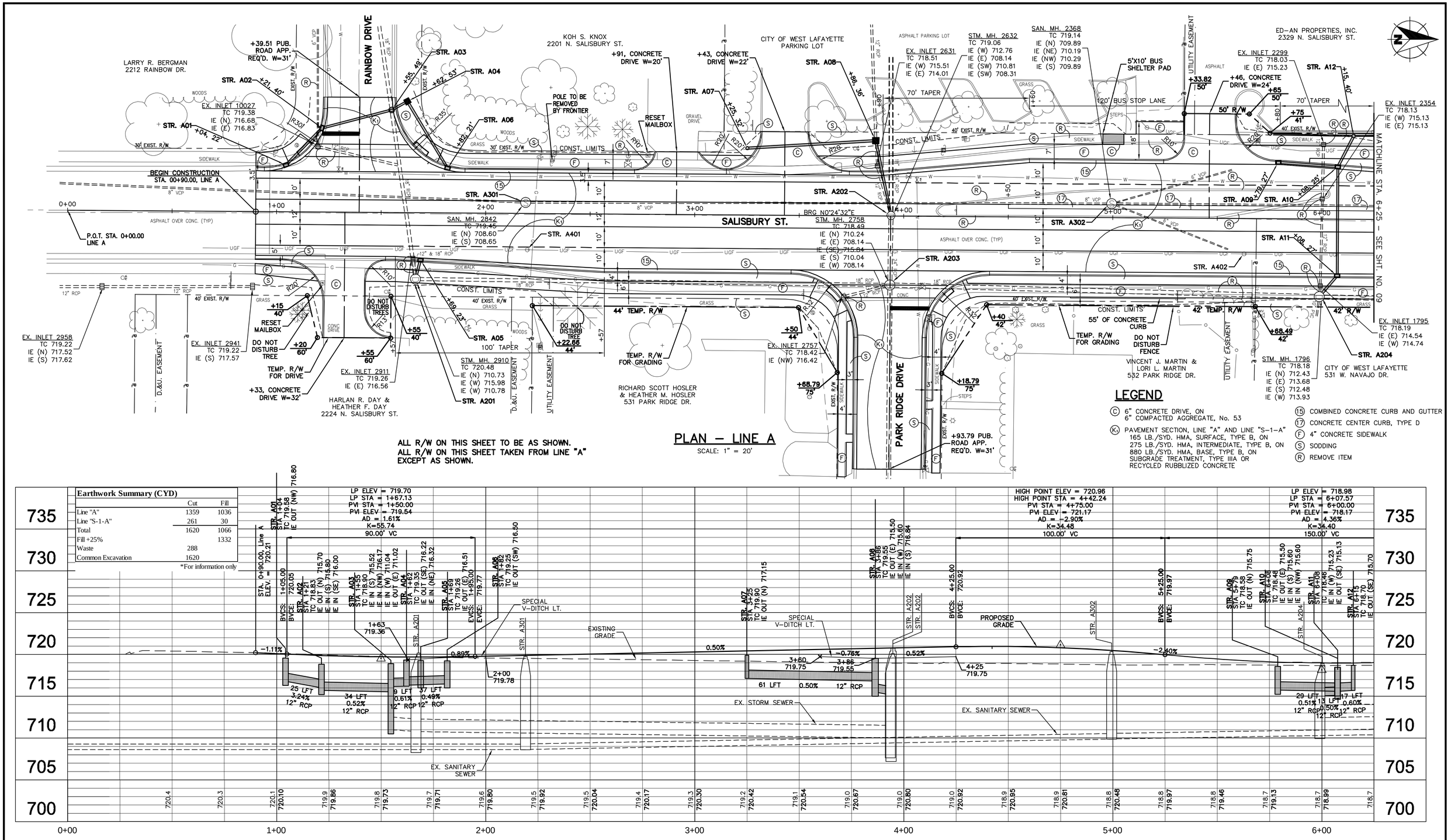
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

TRAFFIC CONTROL PLAN CLOSURE ALTERNATE

SHEET NO. 07

TOTAL SHEETS 35



Earthwork Summary (CYD)

	Cut	Fill
Line "A"	1359	1036
Line "S-1-A"	261	30
Total	1620	1066
Fill +25%		1332
Waste	288	
Common Excavation	1620	

*For information only

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE 1"=20'

ISSUE DATE OCTOBER 24, 2013

PROJECT NUMBER 139310-04-001

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REVISIONS

JEREMI A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

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SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

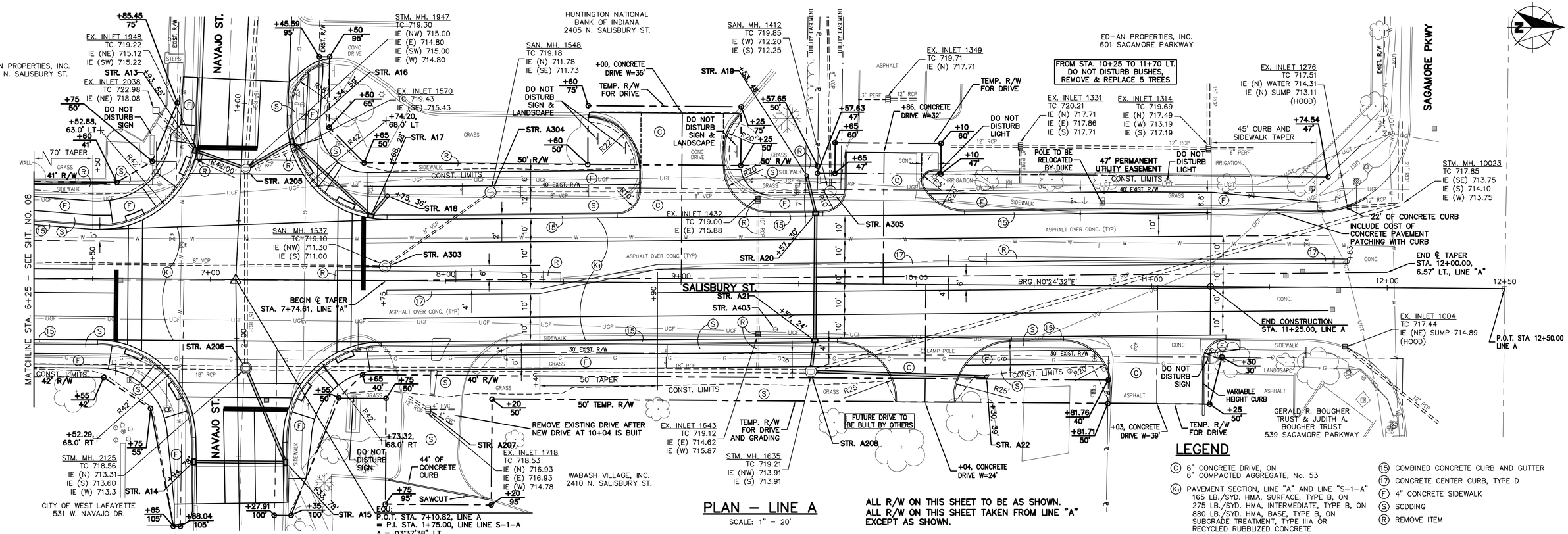
CITY OF WEST LAFAYETTE

PLAN AND PROFILE - LINE A

SHEET NO. 08

TOTAL SHEETS 35

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-PP.dwg | Layout: PP 1 | Plotted: 10/25/13 @ 03:47:18 | User: Jessica Hawley | Project No.: ########



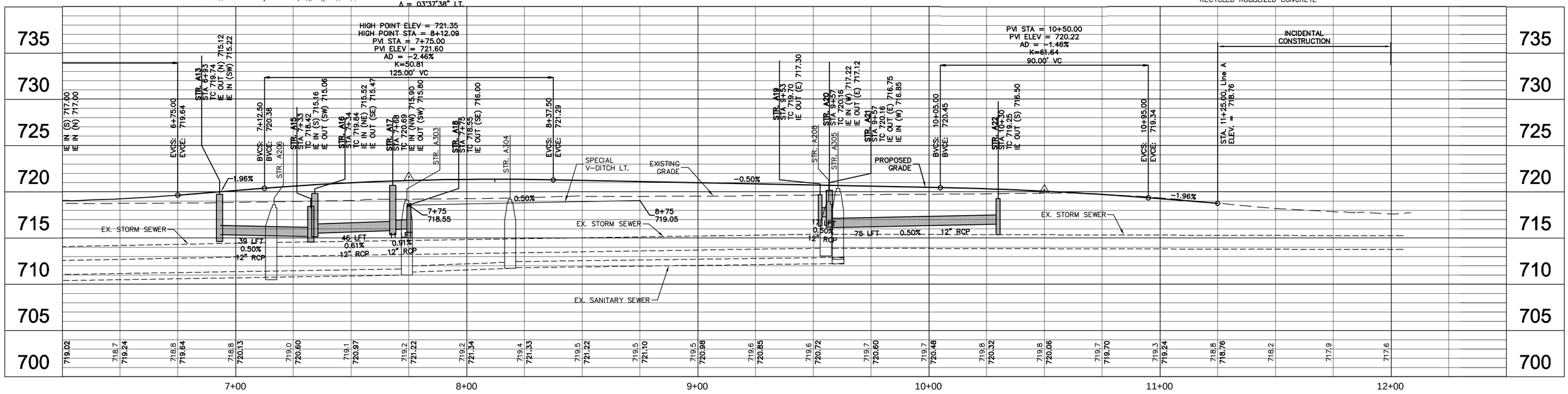
PLAN – LINE A

SCALE: 1" = 20'

ALL R/W ON THIS SHEET TO BE AS SHOWN.
ALL R/W ON THIS SHEET TAKEN FROM LINE "A" EXCEPT AS SHOWN.

LEGEND

- (C) 6" CONCRETE DRIVE, ON 6" COMPACTED AGGREGATE, No. 53
- (K1) PAVEMENT SECTION, LINE "A" AND LINE "S-1-A" 165 LB./SYD. HMA, SURFACE, TYPE B, ON 275 LB./SYD. HMA, INTERMEDIATE, TYPE B, ON 880 LB./SYD. HMA, BASE, TYPE B, ON SUBGRADE TREATMENT, TYPE IIIA OR RECYCLED RUBBLIZED CONCRETE
- (15) COMBINED CONCRETE CURB AND GUTTER
- (17) CONCRETE CENTER CURB, TYPE D
- (F) 4" CONCRETE SIDEWALK
- (S) SODDING
- (R) REMOVE ITEM



SALISBURY ST. LINE A

SCALE: 1" = 20' H.
1" = 5' V.

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE 1"=20'

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BUENO REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
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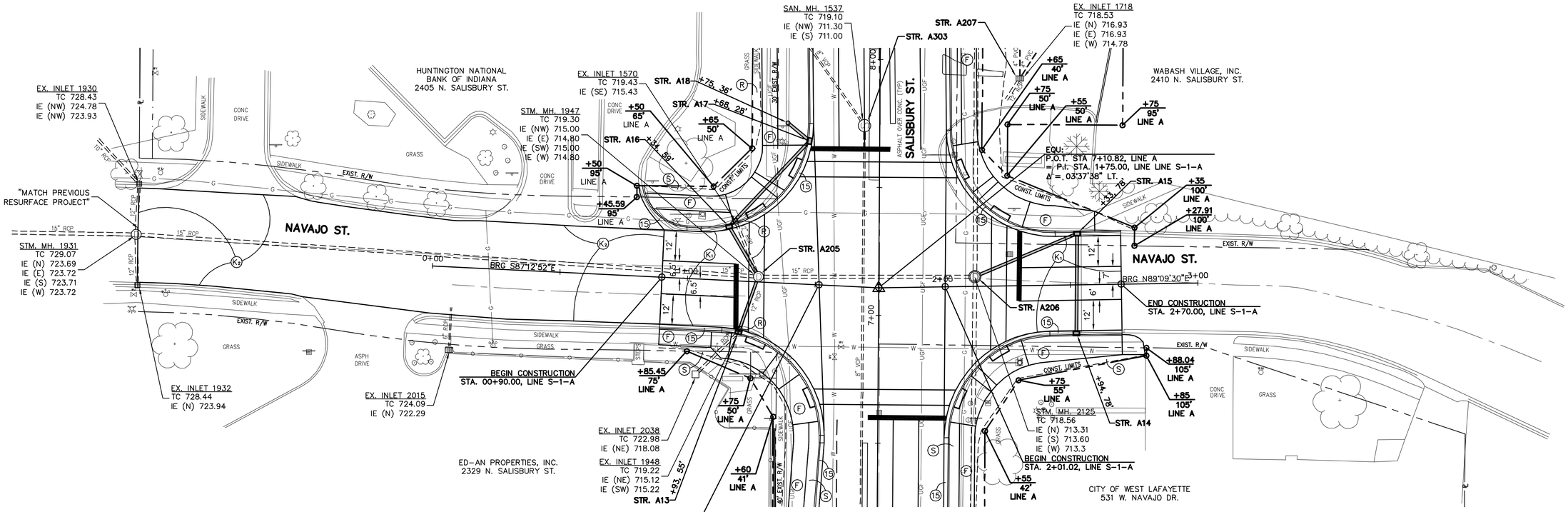
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

PLAN AND PROFILE - LINE A

SHEET NO. 09

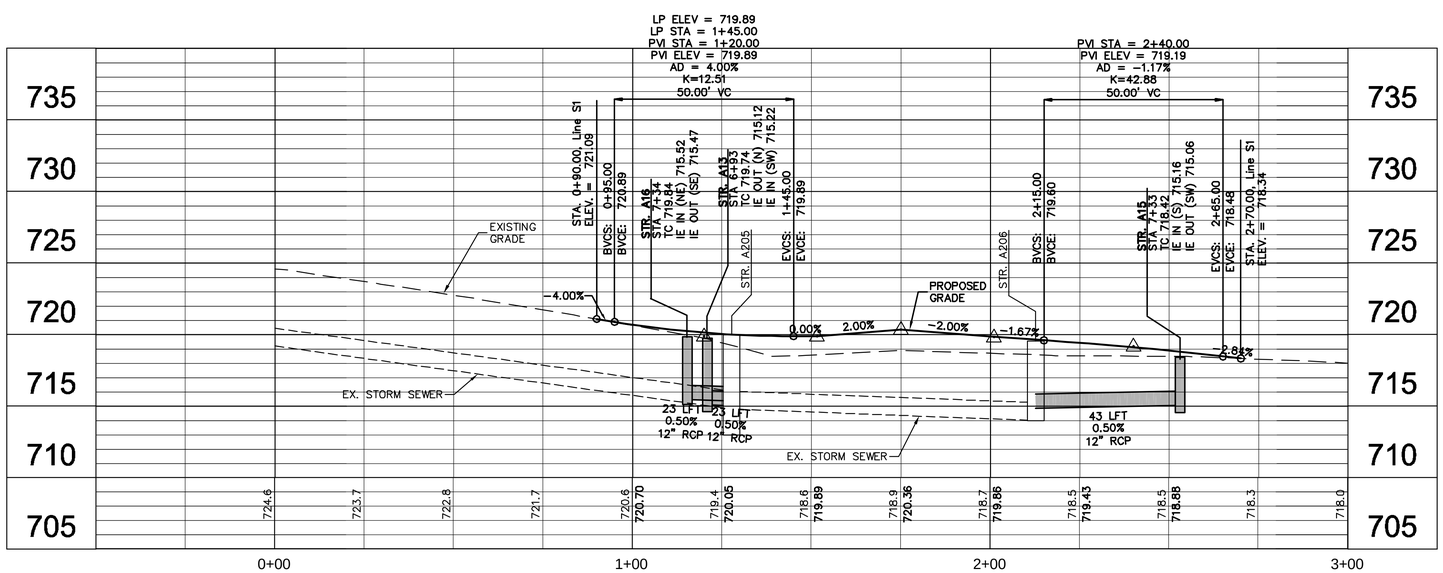
TOTAL SHEETS 35



ALL R/W ON THIS SHEET TO BE AS SHOWN.
ALL R/W ON THIS SHEET TAKEN FROM LINE "A"
EXCEPT AS SHOWN.

PLAN LINE S-1-A

SCALE: 1" = 20'



NAVAJO ST. LINE S-1-A

SCALE: 1" = 20' H.
1" = 5' V.

LEGEND

- (C) 6" CONCRETE DRIVE, ON 6" COMPACTED AGGREGATE, No. 53
- (K1) PAVEMENT SECTION, LINE "A" AND LINE "S-1-A" 165 LB./SYD. HMA, SURFACE, TYPE B, ON 275 LB./SYD. HMA, INTERMEDIATE, TYPE B, ON 880 LB./SYD. HMA, BASE, TYPE B, ON SUBGRADE TREATMENT, TYPE IIIA OR RECYCLED RUBBLIZED CONCRETE
- (K2) RESURFACE SECTION 165 LB./SYD. HMA, SURFACE, TYPE B, ON 1.5" MILLING
- (15) COMBINED CONCRETE CURB AND GUTTER
- (17) CONCRETE CENTER CURB, TYPE D
- (F) 4" CONCRETE SIDEWALK
- (S) SODDING
- (R) REMOVE ITEM

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE 1"=20'

ISSUE DATE OCTOBER 24, 2013

PROJECT NUMBER 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

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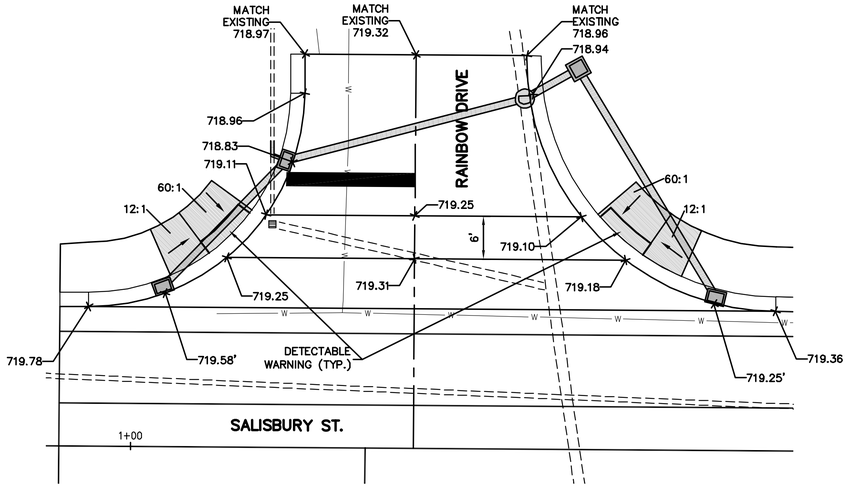
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

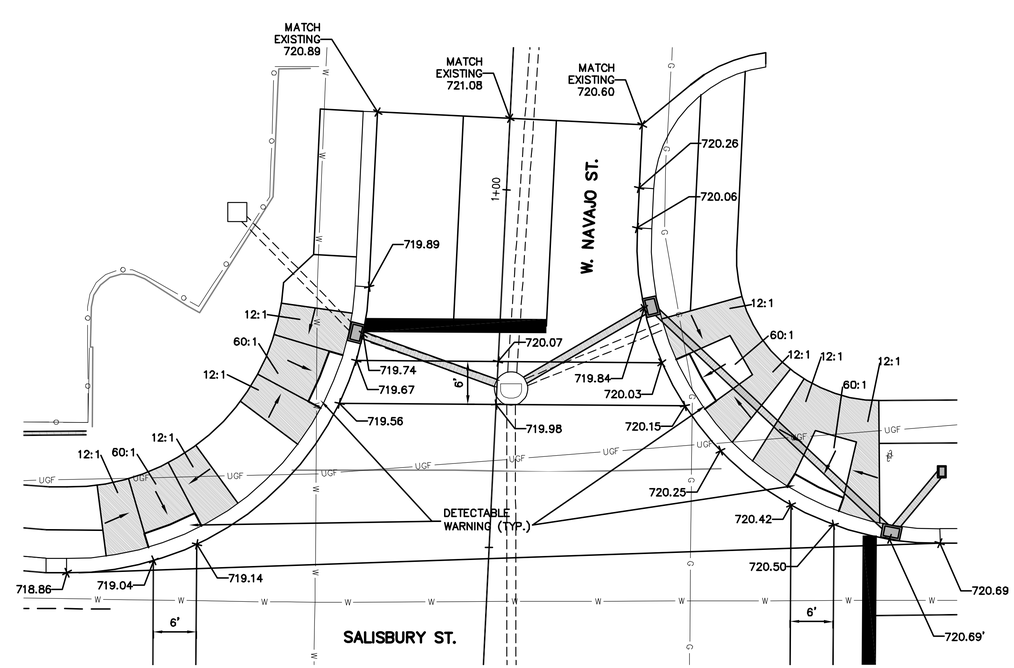
CITY OF WEST LAFAYETTE

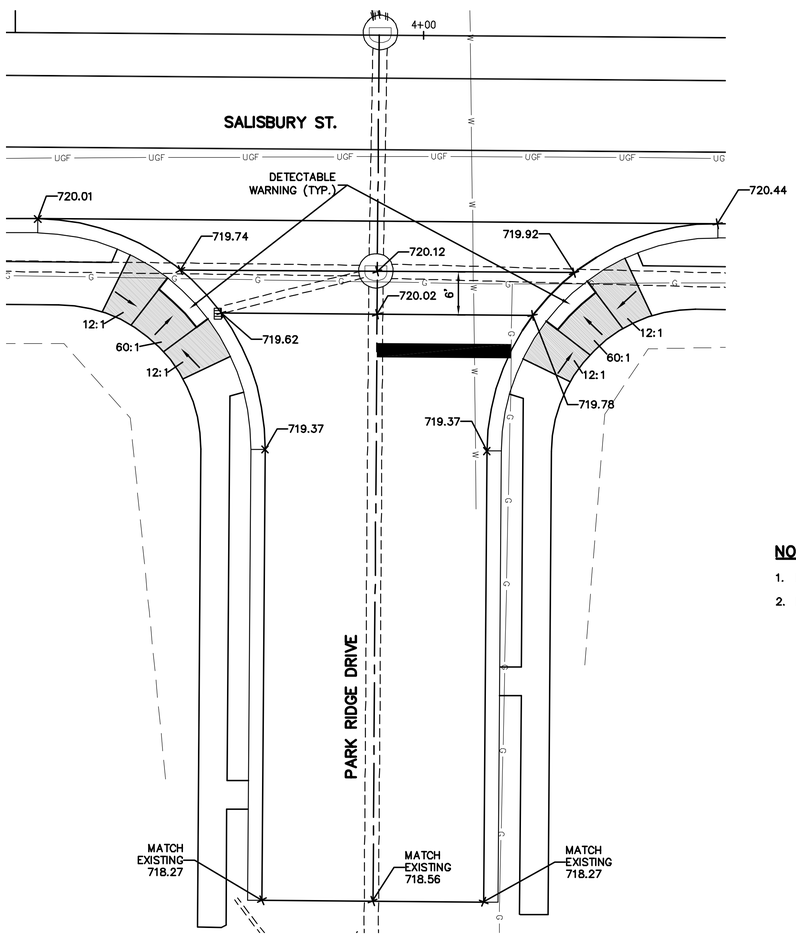
PLAN AND PROFILE - LINE S-1-A

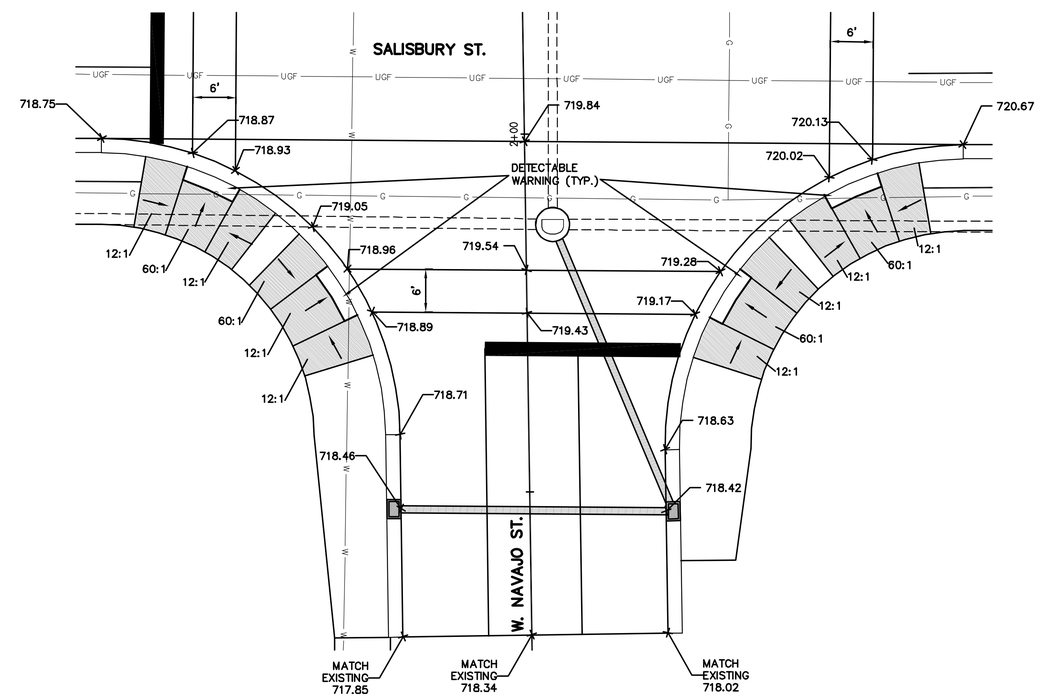
SHEET NO. 10

TOTAL SHEETS 35









NOTES:

1. MAXIMUM CROSS SLOPE FOR CROSSWALKS IS 1.67%
2. LIMITS OF CURB RAMPS ARE SHADED

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=10'

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

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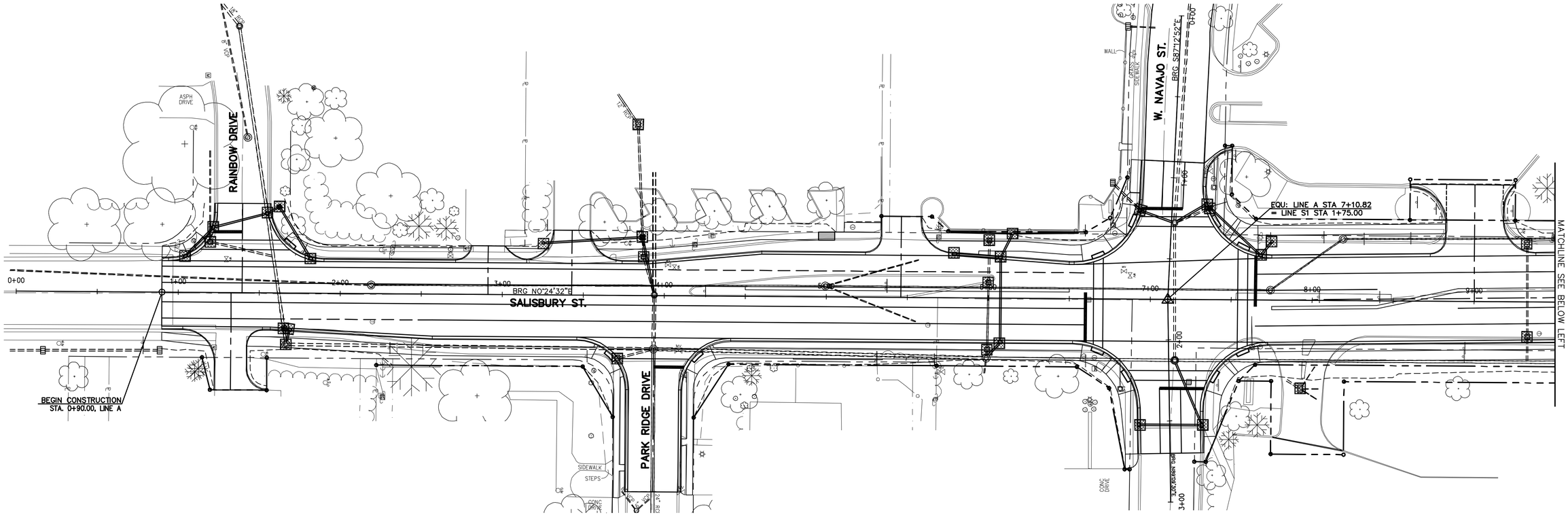
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

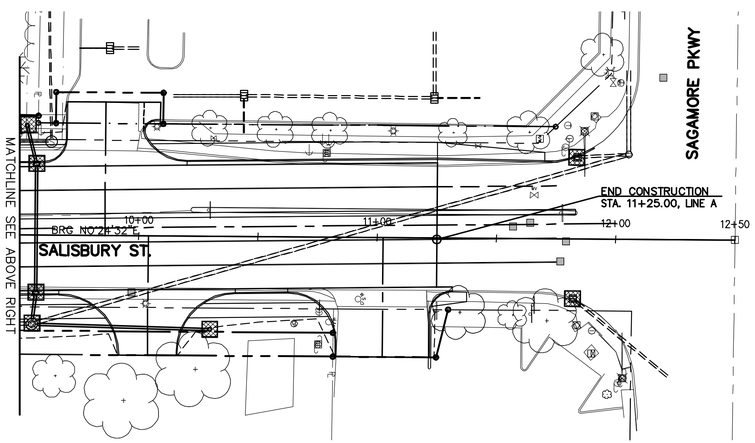
CITY OF WEST LAFAYETTE

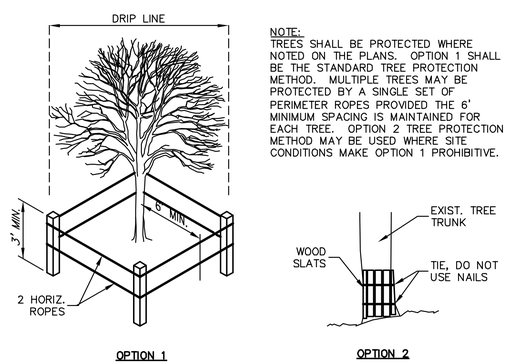
INTERSECTION DETAILS

SHEET NO. 11

TOTAL SHEETS 35





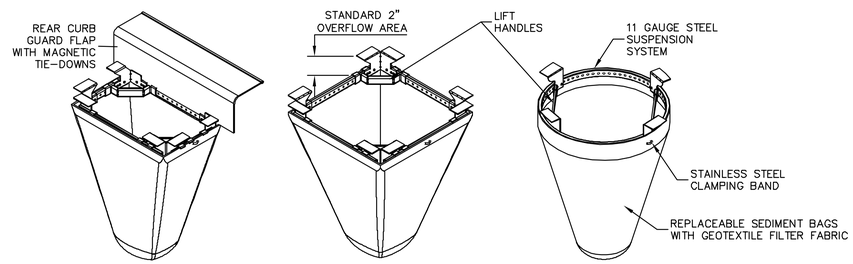


NOTE:
TREES SHALL BE PROTECTED WHERE NOTED ON THE PLANS. OPTION 1 SHALL BE THE STANDARD TREE PROTECTION METHOD. MULTIPLE TREES MAY BE PROTECTED BY A SINGLE SET OF PERIMETER ROPES PROVIDED THE 6' MINIMUM SPACING IS MAINTAINED FOR EACH TREE. OPTION 2 TREE PROTECTION METHOD MAY BE USED WHERE SITE CONDITIONS MAKE OPTION 1 PROHIBITIVE.

MAINTENANCE:
1. INSPECT AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
2. REPAIR PERIMETER BARRIERS IF DAMAGED.
3. INSPECT FOR DAMAGE FROM CONSTRUCTION ACTIVITIES. REPAIR WOUNDS SIMPLY BY REMOVING DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE PAINT.
4. CABLE AND BRACE ANY TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

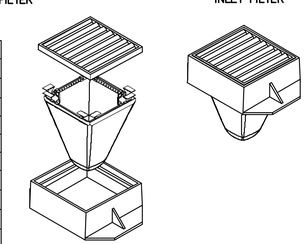
TREE PROTECTION METHODS

SCALE: NONE



INLET FILTER SPECIFICATIONS		
WOVEN GEOTEXTILE SEDIMENT BAG SPECS (2 FT³ VOL)		
MATERIAL PROPERTY	TEST METHOD	VALUE (AVE)
GRAB TENSILE	ASTMD 4632	255 X 275
PUNCTURE STRENGTH	ASTMD 4833	135 LBS.
TRAPEZOIDAL TEAR	ASTMD 4533	75 LBS.
UV RESISTANCE	ASTMD 4355	90%
APP OPEN SIZE (AOS)	ASTMD 4751	20 SIEVE
PERMITTIVITY	ASTMD 4491	1.5 / SEC.
WATER FLOW RATE	ASTMD 4491	200 GPM/SQFT
SEDIMENT REMOVAL EFFICIENCY (8% MIX)	ASTMD 7351	82%

SOURCE: FLEX STORM INLET FILTER



INSTALLATION:
REMOVE THE GRATE FROM THE DRAINAGE STRUCTURE. CLEAN THE LEDGE DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT. DROP IN THE INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE LEDGE. REPLACE THE GRATE. FOR CURB BOX INLET FILTERS: INSERT INLET FILTER AS DESCRIBED ABOVE IN COMBINATION WITH THE CURB BOX FLAP IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE:
THE INLET FILTER SHALL BE INSPECTED DAILY AND AFTER EACH STORM EVENT AND EMPTIED IF THE SEDIMENT BAG IS MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED BY THE ENGINEER. REMOVE THE GRATE AND LIFT THE INLET FILTER FROM THE DRAINAGE STRUCTURE. ACCUMULATED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OF PROPERLY. MATERIAL SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM. REMOVE ANY CAKED ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG FOR OPTIMAL FILTRATION. REPLACE THE BAG IF THE INNER FILTER MEMBRANE IS TORN.

INLET PROTECTION

SCALE: NONE

EROSION CONTROL LEGEND

- TEMPORARY INLET PROTECTION
- (R) REMOVE

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=30' (0, 15, 30, 60)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BUENO REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

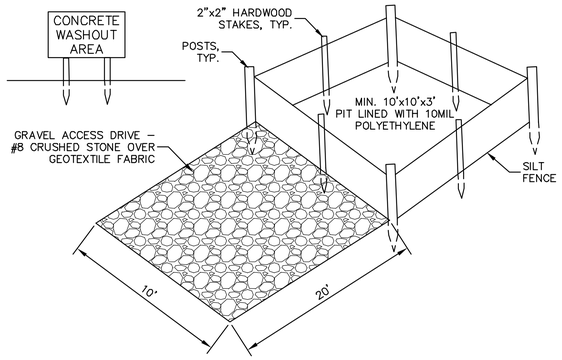
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

EROSION CONTROL PLAN

SHEET NO. 12

TOTAL SHEETS 35



CONCRETE WASHOUT DETAIL

SCALE: NONE

CONCRETE WASHOUT NOTES:

1. SILT FENCE SHALL BE INSTALLED TO FILTER RUNOFF THAT FLOWS INTO THE WASHOUT AREA.
2. THE POLYETHYLENE LINER SHALL BE A MINIMUM OF 10 MIL AND FREE OF TEARS, HOLES, AND OTHER DEFECTS. THE POLYETHYLENE LINING SHALL BE OF ADEQUATE SIZE TO EXTEND OVER THE CONTAINMENT AREA.
3. POSTS FOR SILT FENCES SHALL BE EITHER 4–INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHALL BE USED TO SECURE THE POLYETHYLENE LINING AND SHALL SUPPORT THE SILT FENCE.
4. STAKES FOR SILT FENCES SHALL BE 2"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
5. THE SILT FENCE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
6. LOCATE WASHOUTS AT LEAST 50 FEET FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES OR STORM DRAIN/CONVEYANCES.

WASHOUT PROCEDURES:

1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. EVERY EFFORT SHALL BE MADE TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON–WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
5. DO NOT USE ADDITIVES WITH WASH WATER.
6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:

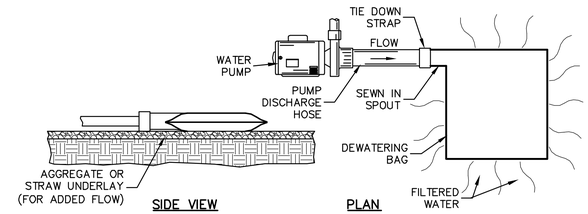
1. SILT FENCE BARRIERS AND POLYETHYLENE LINER SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. INSPECT GRAVEL ACCESS DRIVE PERIODICALLY AND REPLACE DISPLACED STONE.
3. REMOVE HARDENED SOLIDS AND ANY REMAINING LIQUIDS FROM THE WASHOUT AREA AND DISPOSE OF PROPERLY.
4. WHEN NO LONGER REQUIRED, CLOSE SYSTEM AND DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM. LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHALL BE BACKFILLED, GRADED AND STABILIZED.

EROSION CONTROL SCHEDULE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
NOTIFY IDEM RULE 5 COORDINATOR (317–233–1864) AND THE STORMWATER AUTHORITY WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOI AND THE ONSITE PERSON WHO IS RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE (SWPPP) SHOULD BE ONSITE AND WEEKLY SITE INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST.	WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION.
CONSTRUCTION ACCESS – ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING.	THIS IS THE FIRST LAND–DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH GRAVEL AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS – BASIN TRAPS, SILT FENCE.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL – DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM – STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING – SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED, AND MARK TREES AND BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION – TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	TEMPORARY OR PERMANENT STABILIZING MEASURES SHALL BE APPLIED IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION – STRUCTURES, UTILITIES, PAVING	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION – TOPSOILING TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. A UNIFORM DENSITY OF 70% VEGETATED COVER IS REQUIRED

EROSION CONTROL NOTES:

1. INLET PROTECTION SHALL BE INSTALLED ON ALL INLETS AS SHOWN ON THE PLANS.
2. WATER FROM TRENCH DEWATERING SHALL BE FILTERED OR DISCHARGED TO A FLAT GRASS COVERED AREA AND NOT DIRECTLY DISCHARGED TO ANY DITCH, STREAM, WETLAND, OR STORM WATER CONVEYANCE.
3. MATERIAL FROM TRENCH EXCAVATION SHALL BE PLACED AWAY FROM ANY STREAM, WATERWAY, DITCH, WETLAND, OR STORM WATER CONVEYANCE. MATERIAL NOT USED FOR BACKFILL SHALL BE DISPOSED OF PROPERLY.
4. STREETS SHALL BE SWEPT AND CLEANED ON A DAILY BASIS AT A MINIMUM AND MORE FREQUENTLY AS SEDIMENT IS TRACKED ONTO ROADWAYS ACCORDING TO THE SEDIMENT TRACKING SPECIFICATION.
5. DIRECTLY FOLLOWING INSTALLATION OF STORM SEWERS, DISTURBED SOILS MUST BE TEMPORARILY OR PERMANENTLY SEEDED.
6. IN NO INSTANCE SHALL CONSTRUCTION MATERIAL, FILL, OR DEBRIS BE PLACED IN A DITCH, STREAM, WETLAND, OR WATERWAY.
7. INSTALL AND UTILIZE CONCRETE WASHOUT AREA PER DETAIL OR UTILIZE A PLASTIC LINED ROLL OFF CONTAINER FOR CONCRETE WASHOUT AT AREAS WHERE SIDEWALKS, AND CURB REPLACEMENT WILL BE INSTALLED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. IMMEDIATELY FOLLOWING RE–GRADING, EROSION CONTROL BLANKET SHALL BE INSTALLED TO STABILIZE AND REESTABLISH THE DITCH. TURF GRASS IS TO BE INSTALLED IN SWALES ABOVE NEW STORM SEWER PIPE AND IN ALL OTHER LOCATIONS.
9. PROTECT SOIL STOCKPILES FROM EROSION WITH SILT FENCING, OR OTHER METHODS, AS NECESSARY.
10. EXCAVATE TRENCH NO MORE THAN 50 FEET IN FRONT OF PIPE INSTALLATION. DO NOT LEAVE MORE THAN 50 FEET OF TRENCH OPEN AT ONE TIME. BACKFILL AND STABILIZE OPEN TRENCH WITH TEMPORARY SEEDING OR OTHER MEASURES AS SOON AS POSSIBLE FOLLOWING PIPE INSTALLATION.
11. FOLLOWING PIPE INSTALLATION, INSTALL EROSION CONTROL BLANKET ON DISTURBED AREAS WITH SLOPES OF 3:1 OR STEEPER.
12. PROTECT PRIVATE WATER WELLS AS NECESSARY TO PREVENT DAMAGE TO THE WELL AND TO PREVENT SURFACE WATER FROM PONDING AROUND WELLS OR ENTERING WELLS.
13. RECLAIM AND REVEGETATE ALL DISTURBED AREAS. DO NOT USE TALL FESCUE TO REVEGETATE. SEE SEASONAL SOIL PROTECTION CHART INCLUDED IN THESE DRAWINGS FOR REQUIREMENTS.
14. NO PESTICIDES ARE TO BE USED.
15. ALL DISTURBED AREAS SHALL BE SODDED.



PUMPING BAG SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D 4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D 4355	%	70
APPARENT OPENING SIZE	ASTM D 4751	Mm (US STD. SIEVE)	0.180 (80)
FLOW RATE	ASTM D 4491	$1/min/m^2$ ($gal/min/ft^2$)	3866 (95)
PERMITTIVITY	ASTM D 4491	SEC^{-1}	1.2

MAINTENANCE:

1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
2. ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS SHALL BE DISPOSED OF IN CONFORMANCE WITH THE SPECIFICATIONS.
3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

PUMPING BAG DETAIL

SCALE: NONE

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C	E				E	D			
SODDING						F						
MULCHING						G						

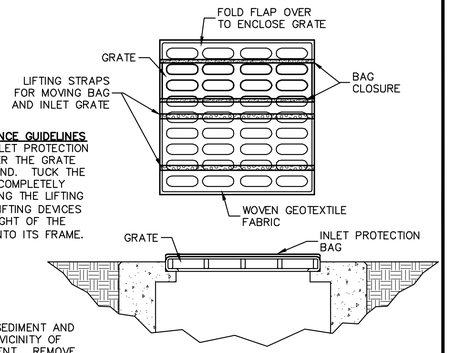
A = KENTUCKY BLUEGRASS 40 LBS/ACRE
B = KENTUCKY BLUEGRASS 210 LBS/ACRE
C = SPRING OATS 100 LBS./ACRE (1 INCH PLANTING DEPTH)
D = WHEAT OR RYE 150 LBS./ACRE (1 – 1.5 INCHES PLANTING DEPTH)
E = ANNUAL RYEGRASS 40 LBS/ACRE (¼ INCH PLANTING DEPTH)
F = SOD
G = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

NOTES:

1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.

MAINTENANCE:

1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.

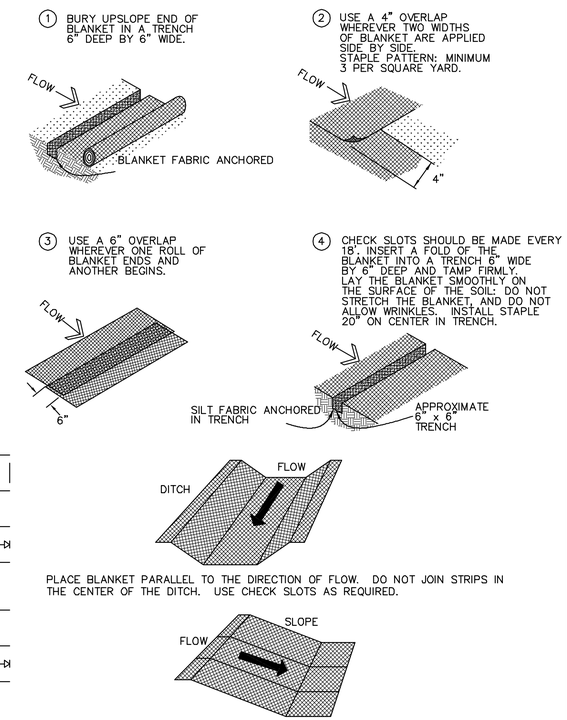


INSTALLATION AND MAINTENANCE GUIDELINES
INSTALLATION: THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE:
REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG

SCALE: NONE



PRODUCT:
NORTH AMERICAN GREEN SC150, OR EQUAL

NOTE:
PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.

MAINTENANCE:

1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET DETAIL

SCALE: NONE

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE

ISSUE DATE
OCTOBER 24, 2013
PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREM A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

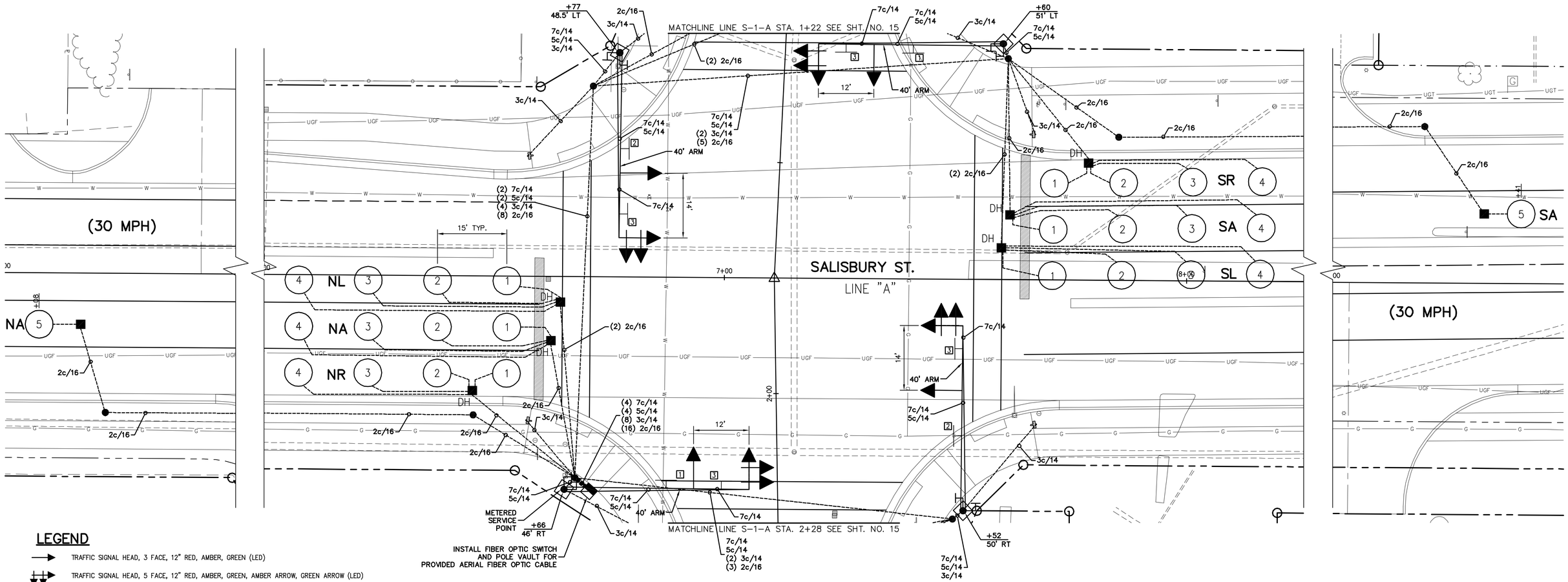
CERTIFICATION

WESSLER ENGINEERING
More than a Project™

SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3
CITY OF WEST LAFAYETTE

EROSION CONTROL DETAILS

SHEET NO. 13
TOTAL SHEETS 35

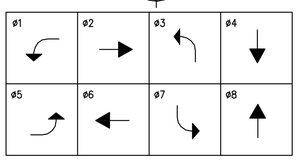


LEGEND

- TRAFFIC SIGNAL HEAD, 3 FACE, 12" RED, AMBER, GREEN (LED)
- TRAFFIC SIGNAL HEAD, 5 FACE, 12" RED, AMBER, GREEN, AMBER ARROW, GREEN ARROW (LED)
- SIGNAL CANTILEVER STRUCTURE AND DRILLED SHAFT FOUNDATION TYPE B (ARM LENGTH AS SHOWN)
- 2" PVC OR HDPE CONDUIT (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 U.N,O.)
- CONTROLLER (ECONOLITE ASC/3) AND CABINET (TS2), P1
- DH SIGNAL DETECTOR HOUSING
- HANDHOLE, SIGNAL, TYPE II
- PREFORMED PAVE-OVER LOOP (U.N.O.)
- LED PEDESTRIAN SIGNAL MODULE WITH COUNTDOWN
- ACCESSIBLE PEDESTRIAN PUSH BUTTON AND SIGN TYPE R10-3E
- 24" THERMOPLASTIC STOP LINE

SIGN CODE

1. D3-1(A) "Salisbury St."
2. D3-1(B) "Navajo St."
3. R10-12 "LEFT TURN YIELD ON GREEN"



PHASE DIAGRAM

BOTH SALISBURY STREET AND NAVAJO STREET FLASH RED

LOOP TAGGING TABLE		
LANE	TAG NUMBER	
NL	NL5-1,2,3	
NL	NL5-4	C
NA	NA2-1,2,3,4	C
NA	NA2-5	C
NR	NR2-1,2,3,4	C
SL	SL1-1,2,3	
SL	SL1-4	C
SA	SA6-1,2,3,4	C
SA	SA6-5	C
SR	SR6-1,2,3,4	C
EL	EL7-1,2,3	
EL	EL7-4	C
EA	EA4-1,2,3,4	C
WL	WL3-1,2,3	
WL	WL3-4	C
WA	WA8-1,2,3,4	C

C=COUNTING LOOPS

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE 1"=10'

ISSUE DATE OCTOBER 24, 2013

PROJECT NUMBER 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

TRAFFIC SIGNAL MODERNIZATION

SHEET NO. 14

TOTAL SHEETS 35

PUSHBUTTON LOCATION GENERAL NOTES:

PER SECTION 4E.08 OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD). IF PEDESTRIAN PUSHBUTTONS ARE USED, THEY SHOULD BE CAPABLE OF EASY ACTIVATION AND CONVENIENTLY LOCATED NEAR EACH END OF THE CROSSWALKS. PEDESTRIAN PUSHBUTTONS SHOULD BE LOCATED TO MEET ALL THE FOLLOWING CRITERIA (SEE IMUTCD FIGURE 4E–3 FOR GUIDANCE):

A. UNOBSTRUCTED AND ADJACENT TO A LEVEL, ALL–WEATHER SURFACE TO PROVIDE WHEELCHAIR ACCESS;
B. WHERE THERE IS AN ALL–WHEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE FROM THE PUSHBUTTON TO RAMP;
C. BETWEEN THE EDGE OF THE CROSSWALK LINE (EXTENDED) FARTHEST FROM THE CENTER OF THE INTERSECTION AND THE SIDE OF A CURB RAMP (IF PRESENT), BUT NOT GREATER THAN 5 FEET FROM SAID CROSSWALK LINE;
D. BETWEEN 1.5 AND 6 FEET FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT;
E. WITH THE FACE OF PUSHBUTTON PARALLEL TO THE CROSSWALK TO BE USED; AND
F. AT A MOUNTING HEIGHT OF APPROXIMATELY 3.5 FEET, NO MORE THAN 4 FEET, ABOVE THE SIDEWALK.

WHERE THERE ARE PHYSICAL CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON ADJACENT TO A LEVEL, ALL–WHEATHER SURFACE, THE SURFACE SHOULD BE AS LEVEL AS FEASIBLE.

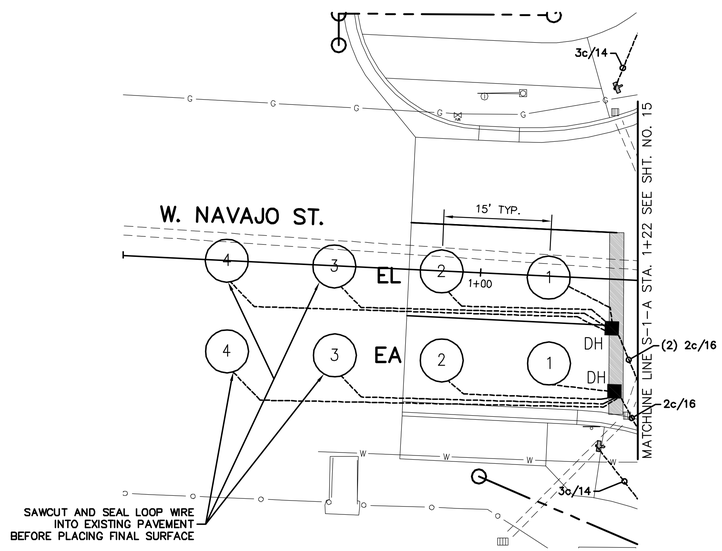
WHERE THERE ARE PHYSICAL CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 AND 6 FEET FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FARTHER THAN 10 FEET FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

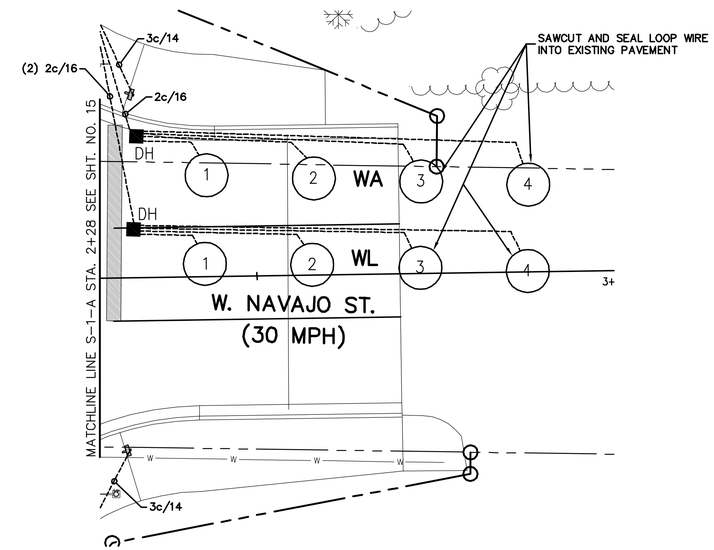
WHERE TWO PEDESTRIAN PUSHBUTTONS ARE PROVIDED ON THE SAME CORNER OF A SIGNALIZED LOCATION, THE PUSHBUTTONS SHOULD BE SEPARATED BY A DISTANCE OF AT LEAST 10 FEET. WHERE THERE ARE PHYSICAL CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10–FOOT SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

SIGNS SHALL BE MOUNTED ADJACENT TO OR INTEGRAL WITH PEDESTRIAN PUSHBUTTONS; SUPPLEMENTAL SIGNS IN A MORE VISIBLE LOCATION MAY BE USED TO CALL ATTENTION TO THE PEDESTRIAN PUSHBUTTON. THE POSITIONING OF PEDESTRIAN PUSHBUTTONS AND THE LEGENDS ON THE PEDESTRIAN PUSHBUTTONS SIGNS SHALL CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PEDESTRIAN PUSHBUTTON..

PLAN NOTES:

1. REMOVE ALL EXISTING TRAFFIC SIGNAL EQUIPMENT AND SIGNAL POLE FOUNDATIONS.
2. COORDINATE THE LOCATION AND MATERIALS OF THE TRAFFIC SIGNAL EQUIPMENT, PRIOR TO INSTALLATION, WITH DENNIS STEELE, WEST LAFAYETTE TRAFFIC SUPERINTENDENT.
3. THE BACK LOOPS ALONG SALISBURY STREET SHALL NOT BE USED FOR SIGNAL ACTUATION. THEY SHALL ONLY BE USED FOR TRAFFIC COUNTING.
4. SEE SIGNAGE AND PAVEMENT MARKING PLAN SHT. NO. 16 FOR STREET SIGN (D3–1) DETAILS.
5. SIGNAL LOOPS SHALL BE PREFORMED PAVE–OVER LOOPS UNLESS NOTED OTHERWISE ON PLANS.





LEGEND

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- HANDHOLE, SIGNAL, TYPE II
- PREFORMED PAVE–OVER LOOP (U.N.O.)
- LED PEDESTRIAN SIGNAL MODULE WITH COUNTDOWN
- ACCESSIBLE PEDESTRIAN PUSH BUTTON AND SIGN TYPE R10–3E
- 24" THERMOPLASTIC STOP LINE

SIGN CODE

1. D3–1(A) "Salisbury St."
2. D3–1(B) "Navajo St."
3. R10–12 "LEFT TURN YIELD ON GREEN"

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=10' (0 5 10 20)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

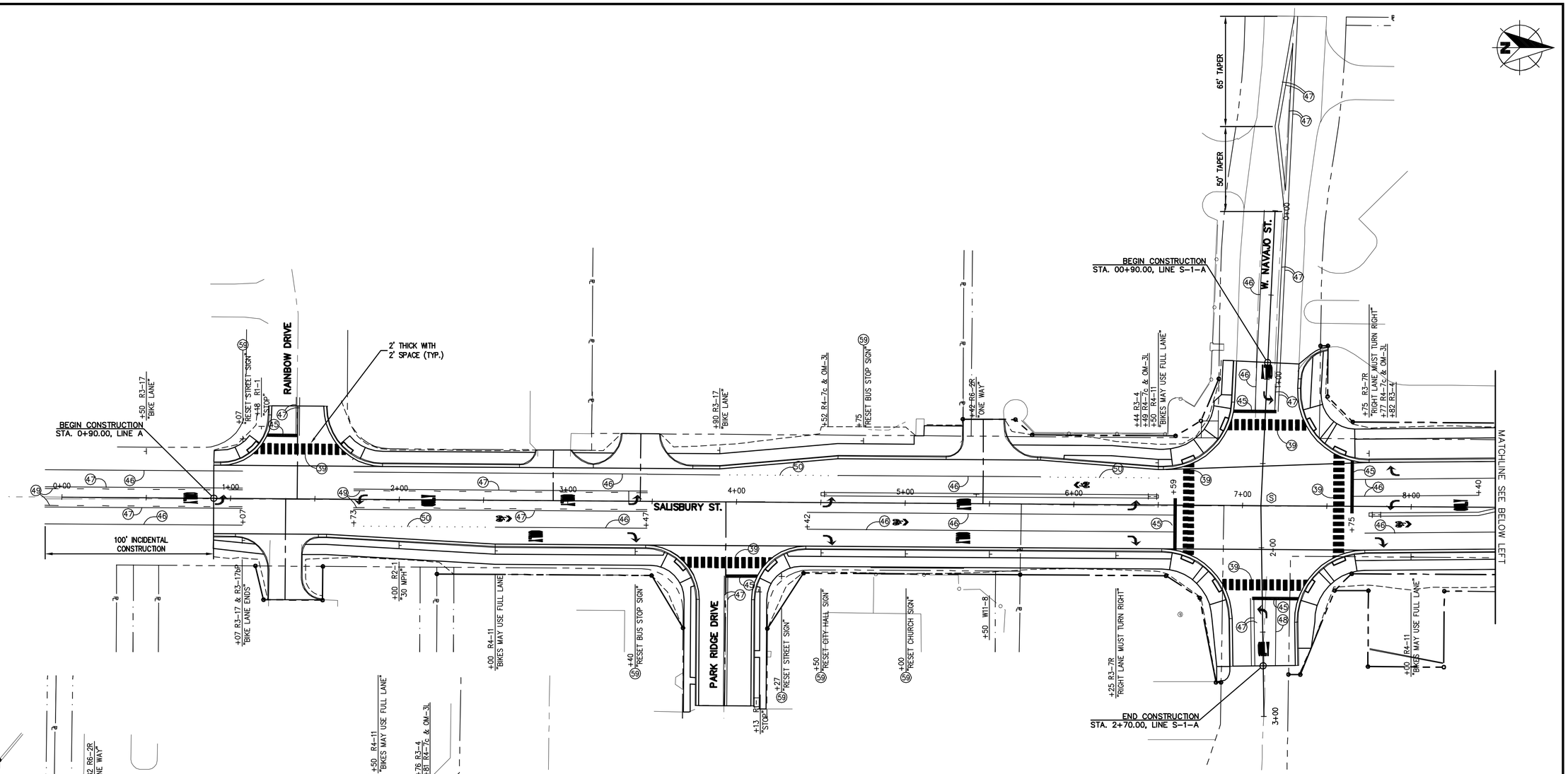
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

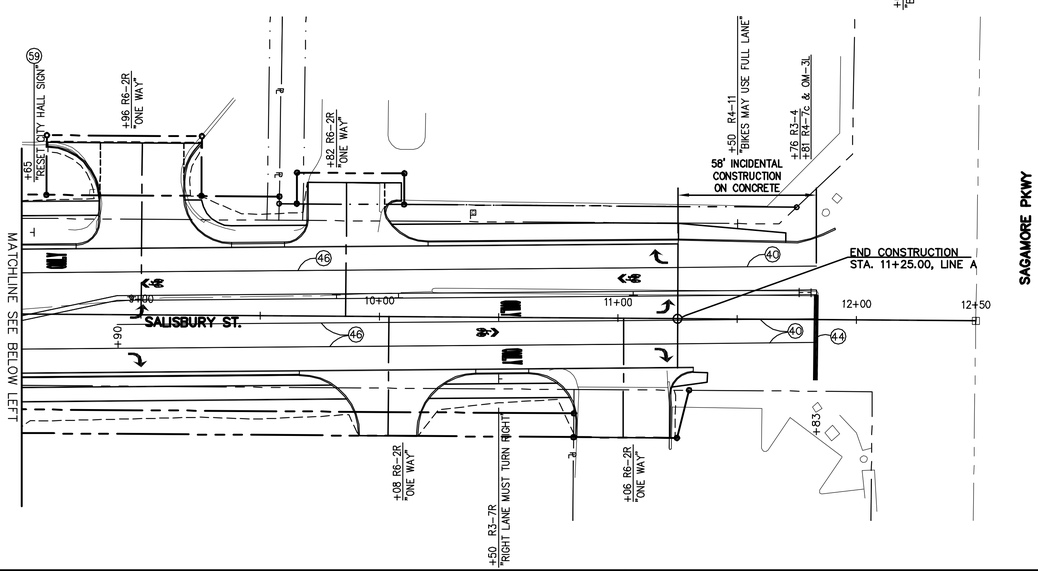
CITY OF WEST LAFAYETTE

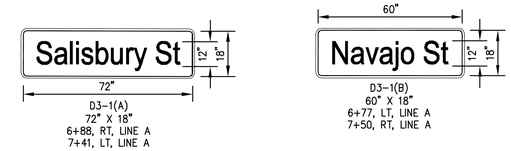
TRAFFIC SIGNAL MODERNIZATION

SHEET NO. 15

TOTAL SHEETS 35







LEGEND

- (S) SIGNALIZED INTERSECTION
- (39) TRANSVERSE MARKINGS, THERMOPLASTIC, CROSSWALK, WHITE, 24"
- (40) LINE, EPOXY, SOLID, WHITE, 4"
- (44) TRANSVERSE MARKINGS, EPOXY, STOP LINE, 24"
- (45) TRANSVERSE MARKINGS, THERMOPLASTIC, STOP LINE, 24"
- (46) LINE, THERMOPLASTIC, SOLID, WHITE, 4"
- (47) LINE, THERMOPLASTIC, SOLID, YELLOW, 4"
- (48) LINE, THERMOPLASTIC, BROKEN, WHITE, 4"
- (49) LINE, THERMOPLASTIC, BROKEN, YELLOW, 4"
- (50) LINE, THERMOPLASTIC, DOTTED, WHITE, 4"
- PAVEMENT MESSAGE MARKING, THERMOPLASTIC, ARROW, WHITE
- PAVEMENT MESSAGE MARKING, THERMOPLASTIC, WORD (ONLY), WHITE
- PAVEMENT MESSAGE MARKING, THERMOPLASTIC, SHARED LANE, WHITE
- (59) RESET EXISTING SIGN ON NEW POST
- SIGN
- STREET SIGN

PLAN NOTES:

1. FOR LOCATION OF SIGNS ON SIGNAL CANTILEVER, SEE TRAFFIC SIGNAL MODERNIZATION SHT. NO. 14
2. SIGNS ON CANTILEVER SHALL INCLUDE HARDWARE FOR MOUNTING.

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=30' (0, 15, 30, 60)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

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SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

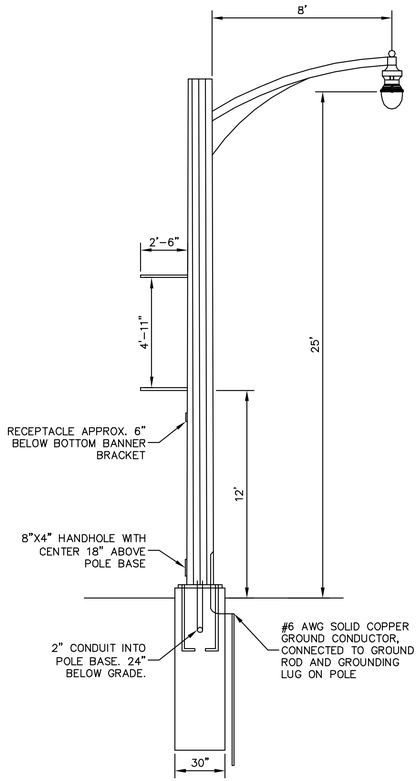
CITY OF WEST LAFAYETTE

SIGNAGE AND PAVEMENT MARKING PLAN

SHEET NO. 16

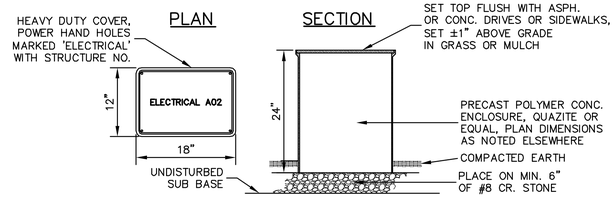
TOTAL SHEETS 35

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-MARKINGS.dwg | Layout: PAVEMENT MARKINGS | Plotted: 10/25/13 @ 03:51:04 | User: Jessica Hawley | Project No.: ########



LIGHT POLE DETAILS

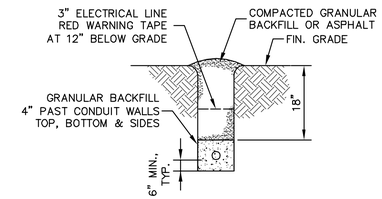
NO SCALE



NOTE: HAND HOLE LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE WITH OWNER FOR EXACT LOCATIONS IN THE FIELD PRIOR TO INSTALLATION.

PULL BOX AND HAND HOLE (HH) INSTALLATION DETAIL

NO SCALE



CONDUIT TRENCH DETAIL

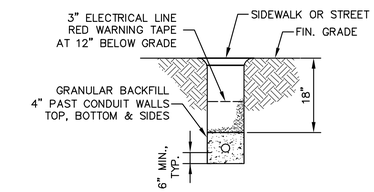
NO SCALE

LEGEND

☼	ORNAMENTAL LIGHT POLE ASSEMBLY
------	5 – 1C NO. 4 COPPER CONDUCTOR IN 2" PVC OR HDPE CONDUIT (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 IN GRASS)
■	**HANDHOLE, LIGHTING**
A–X	**LIGHTING CIRCUIT NUMBER**

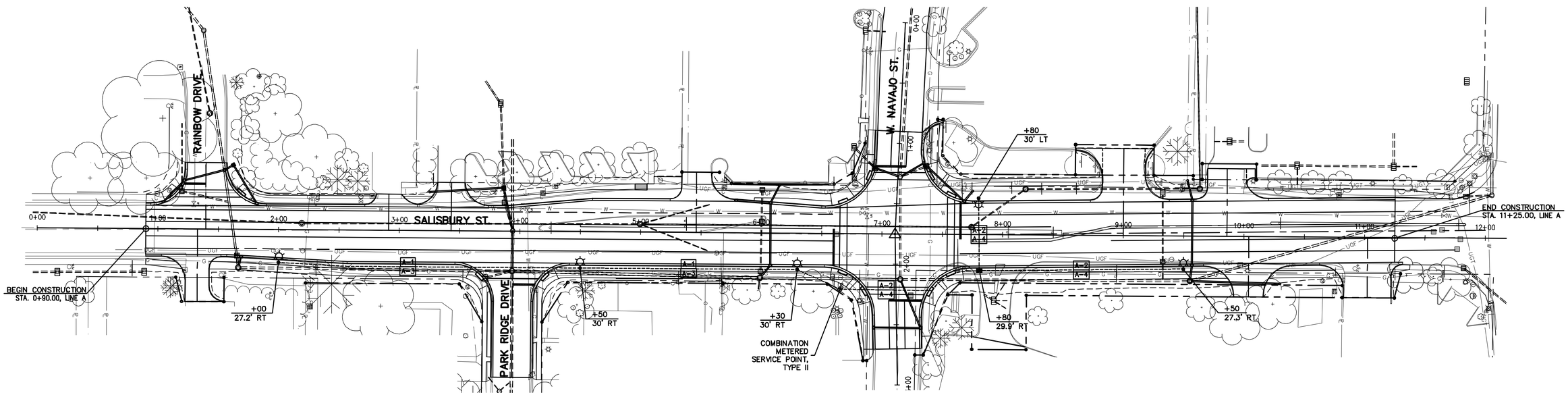
PLAN NOTES:

1. COORDINATE WITH DUKE ENERGY FOR METER BASE REQUIREMENTS. PROVIDE COMBINATION METERED SERVICE POINT, TYPE II.
2. CONDUIT ROUTING SHOWN IS APPROXIMATE, ROUTE CONDUIT AS REQUIRED TO AVOID EXISTING STRUCTURES IN THE SIDEWALK AND ROADWAY.
3. 5#4 IN THE CONDUIT INCLUDE 3#4 HOT, 1#10 NEUTRAL AND 1#10 GROUND PER LIGHTING POLE.
4. CIRCUITS A–1 AND A–2 ARE LIGHTING CIRCUITS. CIRCUITS A–3 AND A–4 ARE RECEPTICLE CIRCUITS. CIRCUITS ALONG THE SAME RUN SHALL BE RUN IN A SINGLE CONDUIT AS SHOWN.



CONDUIT TRENCH DETAIL

NO SCALE – UNDER SIDEWALK OR STREET



DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE: 1"=40' (0 20 40 80)

ISSUE DATE: OCTOBER 24, 2013

PROJECT NUMBER: 139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BUENO REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING

More than a Project™

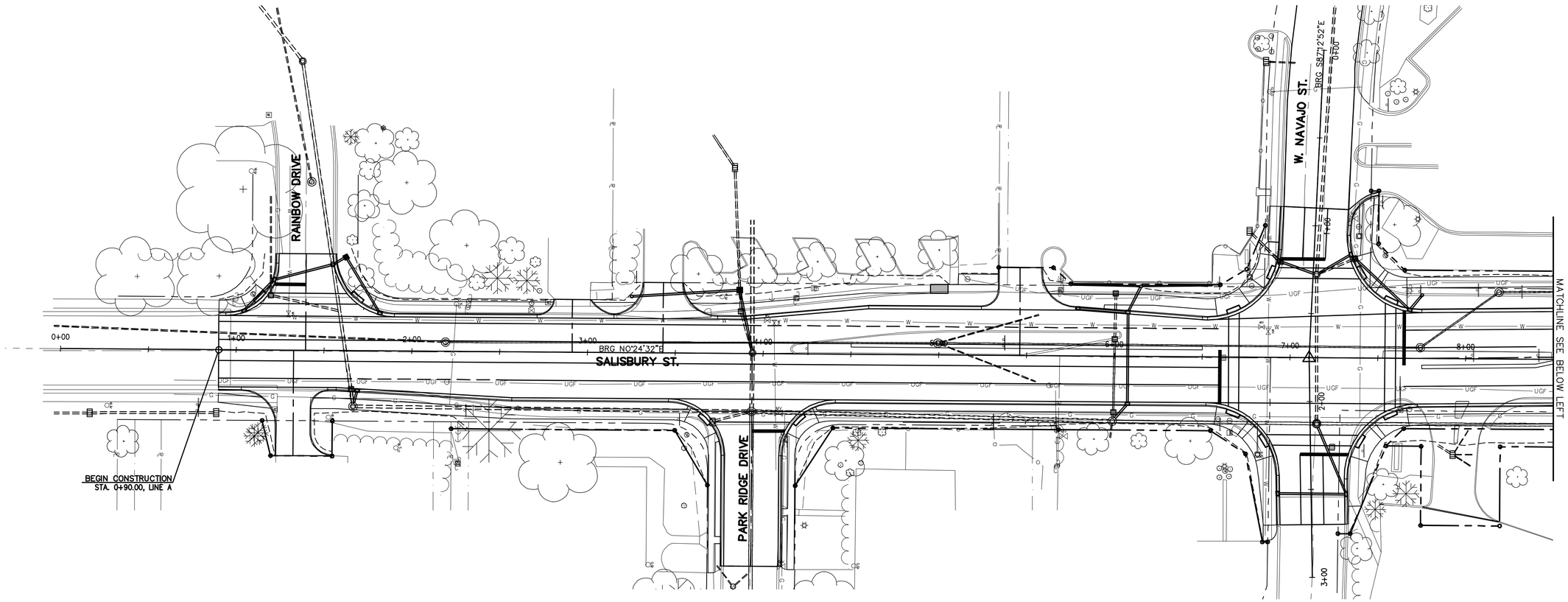
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

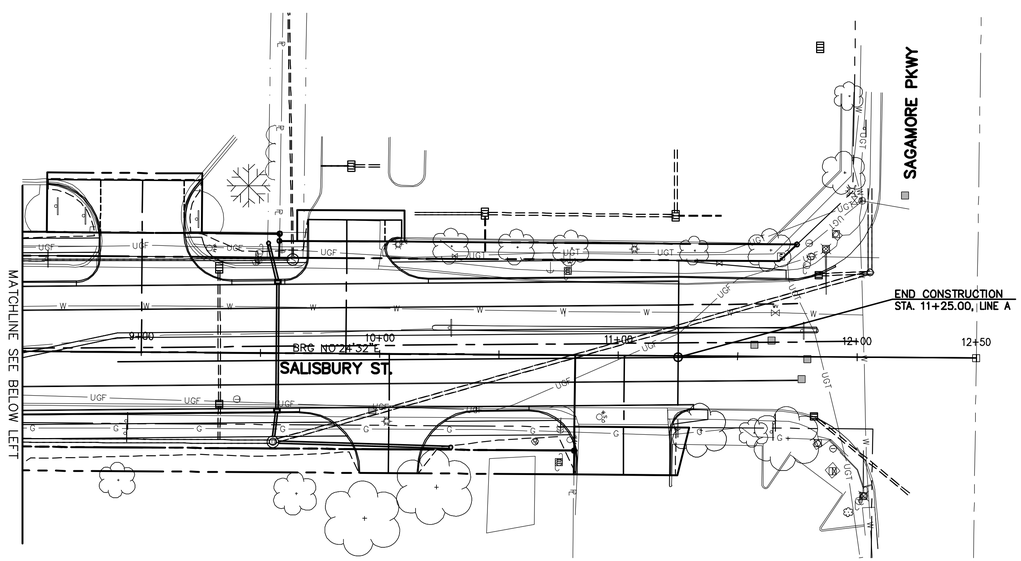
CITY OF WEST LAFAYETTE

STREET LIGHT PLAN

SHEET NO. 17

TOTAL SHEETS 35





DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE
1"=30'
0 15 30 60

ISSUE DATE
OCTOBER 24, 2013

PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BUENAS
REGISTERED
No. 10403969
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

STREET TREE PLAN

SHEET NO.
18

TOTAL SHEETS
35

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	DISTANCE BEYOND R/W LINE	RADII	GRADE (LESS THAN 10% NOT SHOWN)		EXCAVATION		HOT MIX ASPHALT PAVEMENT TYPE B			HMA FOR TEMP PAVEMENT, TYPE B	MILLING, ASPHALT, 1.5"	RUBBLIZING PCCP	SUBGRADE TREATMENT, TYPE IIIA	TACK COAT (FOR INFORMATION ONLY)	COMPACTED AGGREGATE, NO. 53 TEMP FOR ACCESS	6" CONCRETE CURB RAMPS	4" CONCRETE SIDEWALKS	6" CEMENT CONCRETE PAVEMENT FOR DRIVES	CONCRETE CURB AND GUTTER	CENTER CURB, TYPE D, CONCRETE	CONCRETE CURB	REMARKS
										SURFACE	INTER.	BASE													
		"W"	"L"		"R"	1	2	FEET		165	275	880													
		FEET	FEET	FEET	FEET	%	%	CUT	FILL	SYS.	SYS.	SYS.	TON	SYS.	SYS.	SYS.	TONS	TON	SYS.	SYS.	SYS.	LFT.	LFT.	LFT.	
LINE "A"		40.5-52	1,035							5,619	5,619	5,619			5,619	2,923	4.25		216	1,188		1,559	608	100	
1+33, RT	CONCRETE DRIVE	32	39.0		20/10											104					104				
1+39.51, LT.	PUBLIC APPROACH	31	36		30/35					173	173	173			173	173	0.13								
2+91, LT.	CONCRETE DRIVE	20	11		20/10											35					35				
3+43, LT.	CONCRETE DRIVE	22	21		20/20											69					69				
3+93.79, RT.	PUBLIC APPROACH	31	95		32/32					376	376	376			376	376	0.28								
5+46, LT.	CONCRETE DRIVE	24	24		20/10											76					76				
7+10.82, LT.	PUBLIC APPROACH	37	62		42/42					1,188	337	337		851	337	187	0.25			43		184			
7+10.82, RT.	PUBLIC APPROACH	37	69		42/42					368	368	368			368	218	0.28			73		181			
9+00, LT.	CONCRETE DRIVE	35	44		20/10											208					208				
9+86, LT.	CONCRETE DRIVE	32	27		20/10											115					115				
10+04, RT.	CONCRETE DRIVE	24	28		25/25											103					103				
11+03, RT.	CONCRETE DRIVE	39	29		20/10											138					138				
	Undistributed												100					100							
				TOTAL:						**7,723**	**6,872**	**6,872**	**100**	**851**	**6,872**	**4,726**	**5.20**	**100**	**216**	**1,304**	**848**	**1,924**	**608**	**100**	

SHEET SIGN & POST SUMMARY

SIGN									POST																	
									U-CHANNEL				SQUARE													
													2" X 2" X 12 GA. (Type 2)						2 ½" X 2 ½" X 12 GA.				2 ¼" X 2 ¼" X 12 GA. (Type 1)			
													REINFORCED			UNREINFORCED			REINFORCED		UNREINFORCED		REINFORCED		UNREINFORCED	
													POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)		POST LENGTH (FT.)		POST LENGTH (FT.)		POST LENGTH (FT.)	
PLAN SHEET NO. / LINE (RMA)	SIGN LOCATION (STA.)		SIGN CODE	SIGN SIZE (IN.)		REMOVE & RELOCATE	SHEET SIGN WITH LEGEND THICKNESS AND SIGN AREA (SFT.)			POST LENGTH (FT.)		POST TYPE		Post 1	Post 2	Total	Post 1	Post 2	Total	Post 1	Total	Post 1	Total	Post 1	Total	Post 1	Total
				W	H	EA.	.080"	.100"	.125"	1	2	TYPE A	TYPE-B														
LINE A																											
SHT. NO. 16	0+50	LT	R3-17	24	18		3.00																	8.5	8.5		
SHT. NO. 16	1+07	LT	RESET STREET SIGN			1																		10.0	10.0		
SHT. NO. 16	1+07	RT	R3-17	24	18																			9.5	9.5		
			R3-17bP	24	8																						
SHT. NO. 16	1+18	LT	R1-1	30	30		6.25																	9.5	9.5		
SHT. NO. 16	2+00	RT	R2-1	24	30		5.00																	9.5	9.5		
SHT. NO. 16	2+57	RT	R4-11	30	30		6.25																	9.5	9.5		
SHT. NO. 16	3+40	RT	RESET BUS STOP SIGN			1																		10.0	10.0		
SHT. NO. 16	3+90	LT	R3-17	24	18		3.00																	8.5	8.5		
SHT. NO. 16	4+13	RT	R1-1	30	30		6.25																	9.5	9.5		
SHT. NO. 16	4+27	RT	RESET STREET SIGN			1																		10.0	10.0		
SHT. NO. 16	4+50	RT	RESET CITY HALL SIGN			1																		10.0	10.0		
SHT. NO. 16	4+52	M	R4-7c	18	30		3.75																	12.5	12.5		
			OM-3L	12	36		3.00																				
SHT. NO. 16	4+75	LT	RESET BUS STOP SIGN			1																		10.0	10.0		
SHT. NO. 16	5+00	RT	RESET CHURCH SIGN			1																		10.0	10.0		
SHT. NO. 16	5+42	M	R6-2R	24	30		5.00																	9.5	9.5		
SHT. NO. 16	5+50	RT	W11-8	30	30		6.25																	9.5	9.5		
SHT. NO. 16	6+25	RT	R3-7R	30	30		6.25																	9.5	9.5		
SHT. NO. 16	6+44	M	R3-4	24	24		4.00																	9.0	9.0		
SHT. NO. 16	6+49	M	R4-7c	18	30		3.75																	12.5	12.5		
			OM-3L	12	36		3.00																				
SHT. NO. 16	6+50	LT	R4-11	30	30		6.25																	9.5	9.5		
SHT. NO. 16	6+77	LT	R10-12	30	36		7.50		(ON CANTILEVER)																		
SHT. NO. 14	6+77	LT	D3-1(B)	60	18				7.50	(ON CANTILEVER)																	
SHT. NO. 14	6+88	RT	D3-1(A)	72	18				9.00	(ON CANTILEVER)																	
SHT. NO. 14	7+00	RT	R10-12	30	36		7.50			(ON CANTILEVER)																	
SHT. NO. 14	7+26	LT	R10-12	30	36		7.50			(ON CANTILEVER)																	
SHT. NO. 14	7+41	LT	D3-1(A)	72	18				9.00	(ON CANTILEVER)																	
SHT. NO. 14	7+50	RT	D3-1(B)	60	18				7.50	(ON CANTILEVER)																	
SHT. NO. 14	7+50	RT	R10-12	30	36		7.50			(ON CANTILEVER)																	
SHT. NO. 14	7+75	LT	R3-7R	30	30		6.25																	9.5	9.5		
SHT. NO. 16	7+77	M	R4-7c	18	30		3.75																	12.5	12.5		
			OM-3L	12	36		3.00																				
SHT. NO. 16	7+82	M	R3-4	24	24		4.00																	9.0	9.0		
SHT. NO. 16	8+00	RT	R4-11	30	30		6.25																	9.5	9.5		
SHT. NO. 16	8+65	LT	RESET CITY HALL SIGN			1																		10.0	10.0		
SHT. NO. 16	8+96	M	R6-2R	24	30		5.00																	9.5	9.5		
SHT. NO. 16	9+82	M	R6-2R	24	30		5.00																	9.5	9.5		
SHT. NO. 16	10+08	M	R6-2R	24	30		5.00																	9.5	9.5		
SHT. NO. 16	10+50	RT	R3-7R	30	30		6.25																	9.5	9.5		
SHT. NO. 16	11+06	M	R6-2R	24	30		5.00																	9.5	9.5		
SHT. NO. 16	11+50	LT	R4-11	30	30		6.25																	9.5	9.5		
SHT. NO. 16	11+76	M	R3-4	24	24		4.00																	9.0	9.0		
SHT. NO. 16	11+81	M	R4-7c	18	30		3.75																	12.5	12.5		
			OM-3L	12	36		3.00																				
			TOTAL:			**7**	**168**		**33**																**326**		

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	SIZE	PIPE TYPE	DESCRIPTION: MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	DESCRIPTION: CASTING MANUFACTURER AND MODEL	LENGTH	SKEW	COVER	FLOW LINE: UP STREAM	FLOW LINE: DOWN STREAM	TOP OF CASTING ELEVATION	STRUCTURE BACKFILL TYPE 1	RECONST. MANHOLE	REMARKS
				INCH				FT		FT	ELEV.	ELEV.	FT.	CYS	LBS	
LINE A																
A01	1+04	X		12	2	CURB INLET	EAST JORDAN 7030	25		3.2	716.80	716.00	719.58	11		CONNECT TO STR. NO. A02
A02	1+21	X		12	2	CURB INLET	EAST JORDAN 7030	34		3.2	715.70	715.52	718.83	16		CONNECT TO STR. NO. A03
	1+21	X		6	4			6	2.8	MATCH EXISTING	MATCH EXISTING			2		CONNECT EXISTING 6" VCP TO STR. NO. A02 WITH 6" PVC AND (1) 45° ELBOW
A03	1+55	X				STANDARD MANHOLE	EAST JORDAN 1022 (M1)			MATCH EXISTING	MATCH EXISTING	718.90		2		DOGHOUSE STRUCTURE, CONSTRUCT MANHOLE OVER EXISTING STORM SEWER
A04	1+62	X		12	2	DITCH INLET	EAST JORDAN 6610	9		3.2	716.22	716.17	719.35	4		CONNECT TO STR. NO. A03
A05	1+69		X	12	2	CURB INLET	EAST JORDAN 7030	9		2.8	716.51	716.42	719.26	4		CONNECT TO STR. NO. A201, CORE PIPE INTO MANHOLE
A06	1+82	X		12	2	CURB INLET	EAST JORDAN 7030	37		2.8	716.50	716.32	719.25	15		CONNECT TO STR. NO. A04
A07	3+25	X		12	2	12" PIPE CATCH BASIN	EAST JORDAN 6532	61		2.9	717.15	716.84	719.90	26		CONNECT TO STR. NO. A08
A08	3+86	X		12	2	DITCH INLET	EAST JORDAN 6610	36		4.2	715.50	715.15	719.55	21		CONNECT TO STR. NO. A202, CONNECT EXISTING UPSTREAM STORM SEWER TO THIS STRUCTURE, CORE PIPE INTO MANHOLE
A09	5+79	X		12	2	CURB INLET	EAST JORDAN 7030	29		2.9	715.75	715.60	718.58	12		CONNECT TO STR. NO. A10
A10	6+08	X		12	2	CURB INLET	EAST JORDAN 7030	54		3.1	715.50	715.23	718.48	24		CONNECT TO STR. NO. A11
A11	6+08		X	12	2	CURB INLET	EAST JORDAN 7030	13		3.4	715.13	715.06	718.46	6		CONNECT TO STR. NO. A204, CORE PIPE INTO MANHOLE
A12	6+15	X		12	2	12" PIPE CATCH BASIN	EAST JORDAN 6532	15		3.0	715.70	715.60	718.70	7		CONNECT TO STR. NO. A10
	6+15	X		6	4			38		1.6	717.20	717.00		7		CONNECT TO STR. NO. A12
	6+15	X		6	4			40		1.6	717.30	717.00		7		CONNECT TO STR. NO. A12
A13	6+93	X		12	2	CURB INLET	EAST JORDAN 7030	23		4.7	715.12	715.00	719.74	15		CONNECT TO STR. NO. A205, CORE PIPE INTO MANHOLE
A14	6+94		X	12	2	CURB INLET	EAST JORDAN 7030	39		3.2	715.35	715.16	718.46	18		CONNECT TO STR. NO. A15
A15	7+33		X	12	2	CURB INLET	EAST JORDAN 7030	43		3.5	715.06	714.84	718.42	21		CONNECT TO STR. NO. A206, CORE PIPE INTO MANHOLE
A16	7+34	X		12	2	CURB INLET	EAST JORDAN 7030	23		4.4	715.47	715.35	719.84	14		CONNECT TO STR. NO. A205, CORE PIPE INTO MANHOLE
A17	7+68	X		12	2	CURB INLET	EAST JORDAN 7030	46		5.0	715.80	715.52	720.69	32		CONNECT TO STR. NO. A16
A18	7+75	X		12	2	12" PIPE CATCH BASIN	EAST JORDAN 6532	11		2.6	716.00	715.90	718.55	4		CONNECT TO STR. NO. A17
A19	9+53	X		12	2	12" PIPE CATCH BASIN	EAST JORDAN 6532	17		2.4	717.30	717.22	719.70	6		CONNECT TO STR. NO. A20
A20	9+57	X		12	2	CURB INLET	EAST JORDAN 7030	54		3.2	717.12	716.85	720.16	25		CONNECT TO STR. NO. A21
A21	9+57		X	12	2	CURB INLET	EAST JORDAN 7030	13		3.4	716.75	716.68	720.16	6		CONNECT TO STR. NO. A208, CORE PIPE INTO MANHOLE
A22	10+30		X	12	X	12" PIPE CATCH BASIN	EAST JORDAN 6532	75		2.9	716.50	716.13	719.25	32		CONNECT TO STR. NO. A208, CORE PIPE INTO MANHOLE
A201	1+67		X			EXISTING STORM MANHOLE							719.88	1		ADJUST CASTING TO GRADE
A202	3+94	X				EXISTING STORM MANHOLE							720.75	1		ADJUST CASTING TO GRADE
A203	3+94		X			EXISTING STORM MANHOLE							720.10	1		ADJUST CASTING TO GRADE
A204	6+00		X			EXISTING STORM MANHOLE							719.09	1		ADJUST CASTING TO GRADE
A205	7+15	X				EXISTING STORM MANHOLE							719.97	1		ADJUST CASTING TO GRADE
A206	7+15		X			EXISTING STORM MANHOLE							719.56	1		ADJUST CASTING TO GRADE
A207	7+93		X			EXISTING STORM MANHOLE	EAST JORDAN 6610						718.53	1		FURNISH AND ADJUST CASTING TO GRADE
A208	9+55		X			EXISTING STORM MANHOLE	EAST JORDAN 7500						718.88	1		FURNISH AND ADJUST CASTING TO GRADE
A301	2+19	X				EXISTING SANITARY MANHOLE							719.78	1		ADJUST CASTING TO GRADE
A302	5+00	X				EXISTING SANITARY MANHOLE							720.35	1		ADJUST CASTING TO GRADE
A303	7+74	X				EXISTING SANITARY MANHOLE							721.09	1		ADJUST CASTING TO GRADE
A304	8+19	X				EXISTING SANITARY MANHOLE							720.20	1		ADJUST CASTING TO GRADE
A305	9+63	X				EXISTING SANITARY MANHOLE	EAST JORDAN 1022						720.34	1		FURNISH AND ADJUST CASTING TO GRADE
A401	2+20		X			EXISTING CABLE STRUCTURE							719.55			ADJUST CASTING TO GRADE
A402	5+63		X			EXISTING CABLE STRUCTURE							718.93			ADJUST CASTING TO GRADE
A403	9+40		X			EXISTING CABLE STRUCTURE							720.39			ADJUST CASTING TO GRADE

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE

ISSUE DATE
OCTOBER 24, 2013

PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

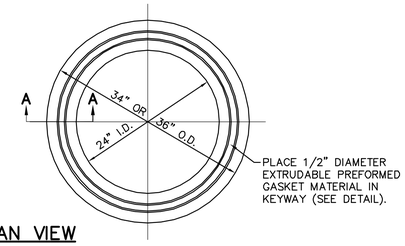
SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

CITY OF WEST LAFAYETTE

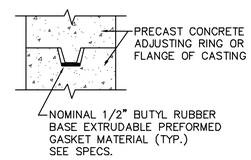
APPROACH TABLE, STRUCTURE DATA TABLE, AND SIGN SUMMARY

SHEET NO. **19**

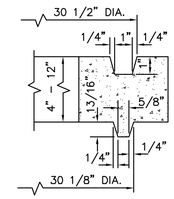
TOTAL SHEETS 35



PLAN VIEW



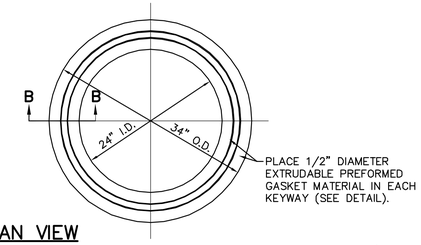
GASKET DETAIL



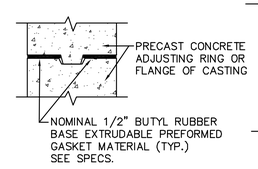
SECTION "A–A"

ADJUSTING RING (OPTION 1)

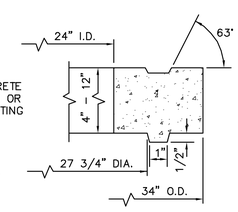
SCALE: NONE



PLAN VIEW



GASKET DETAIL



SECTION "B–B"

ADJUSTING RING (OPTION 2)

SCALE: NONE

DRAWN BY	CHECKED BY	APPROVED BY
J.R.W.	J.N.H.	J.A.B.

DRAWING SCALE

ISSUE DATE
OCTOBER 24, 2013

PROJECT NUMBER
139310-04-001

NO.	DATE	INITIALS	DESCRIPTION

REVISIONS

JEREMY A. BURNS REGISTERED No. 10403969 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFICATION

WESSLER ENGINEERING
More than a Project™

SALISBURY STREET SAFETY IMPROVEMENTS, PHASE 3

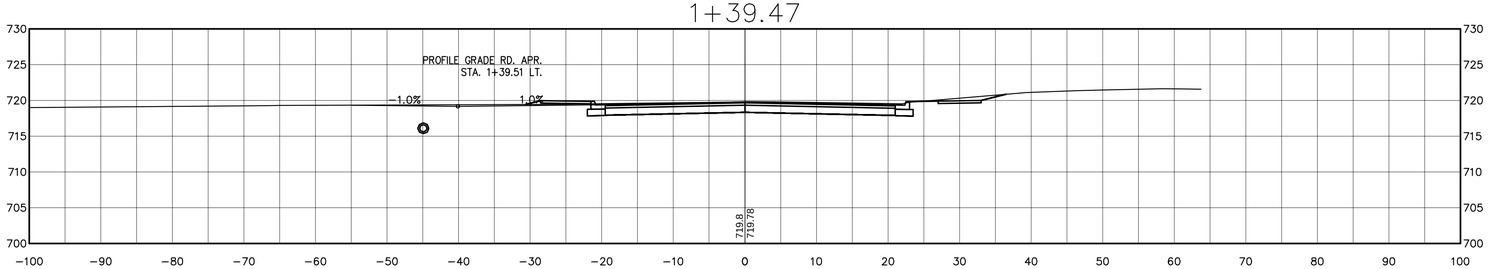
CITY OF WEST LAFAYETTE

MISCELLANEOUS DETAILS

SHEET NO. **20**

TOTAL SHEETS 35

1+39.47



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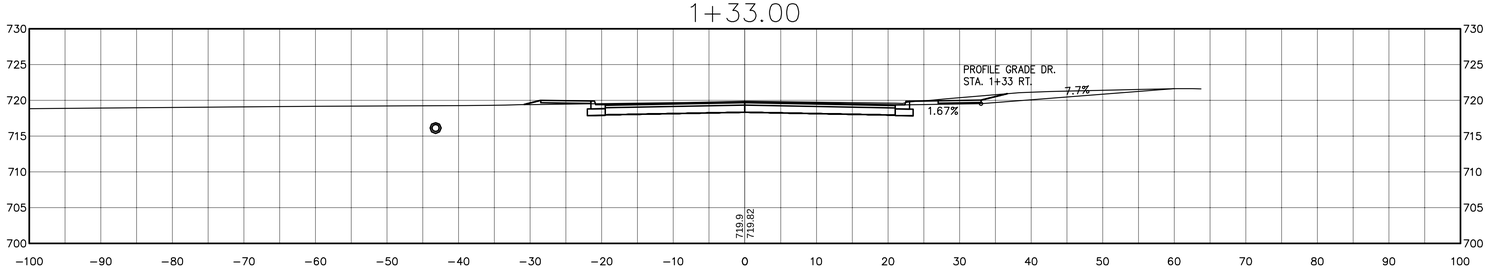

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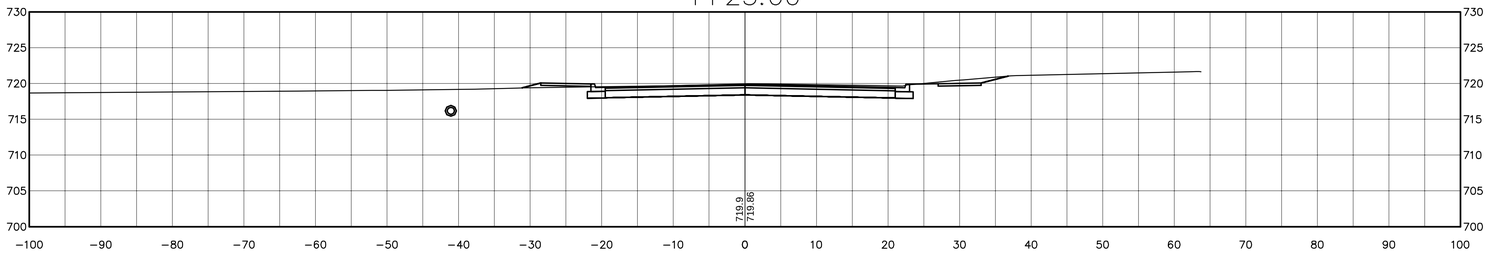

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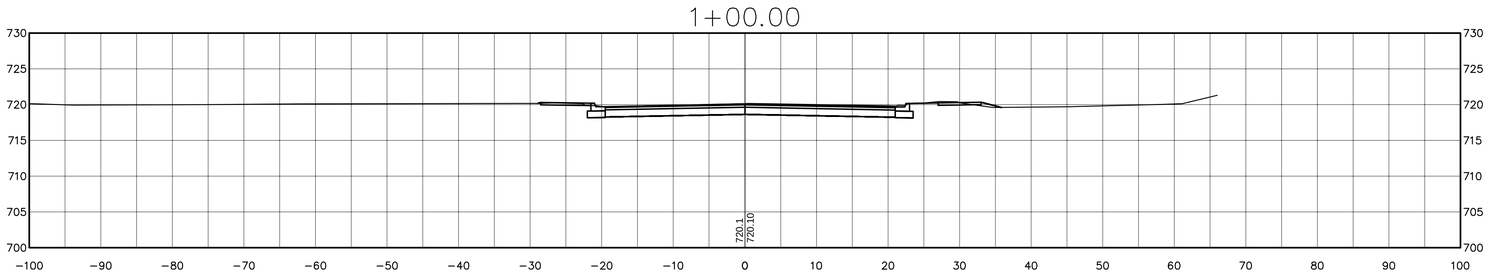

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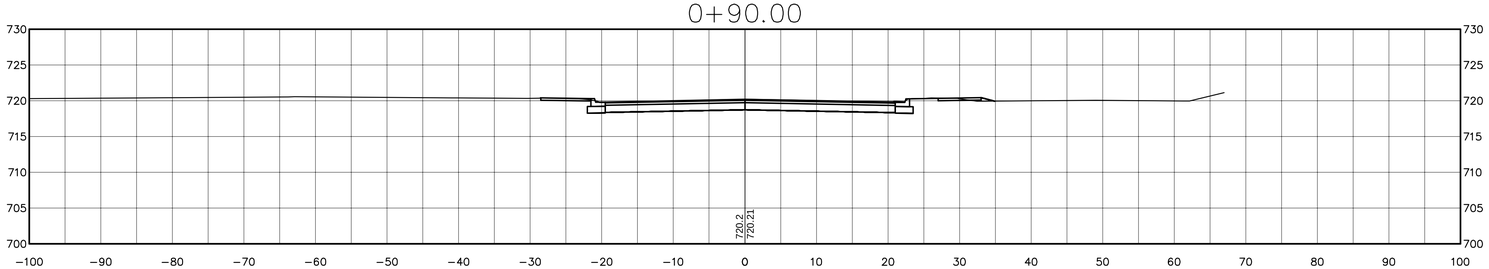
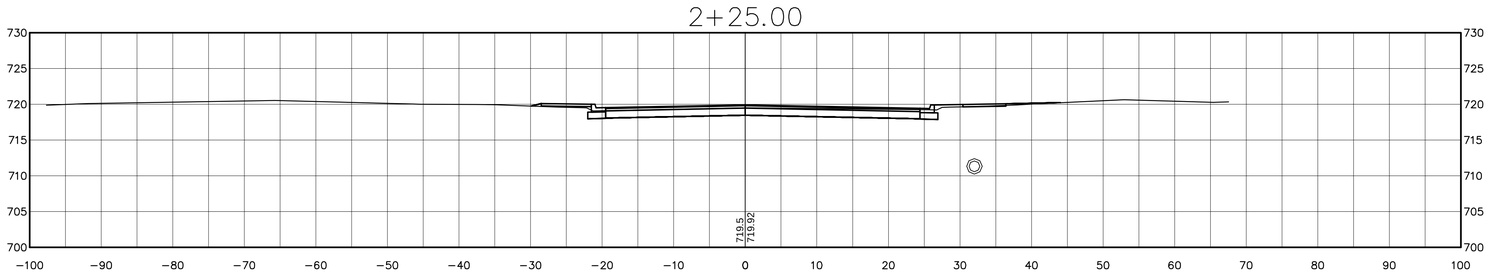
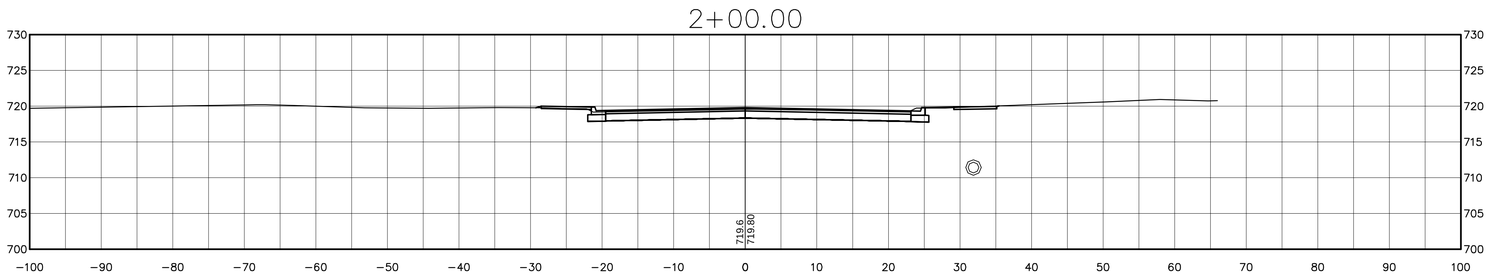
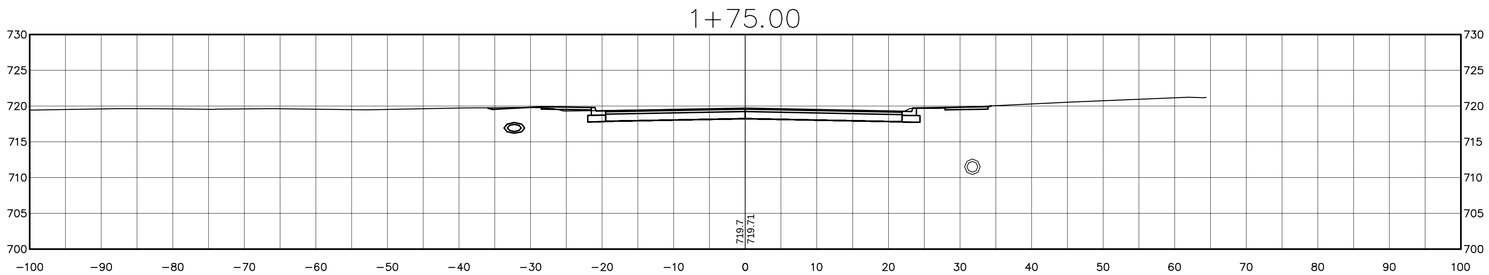


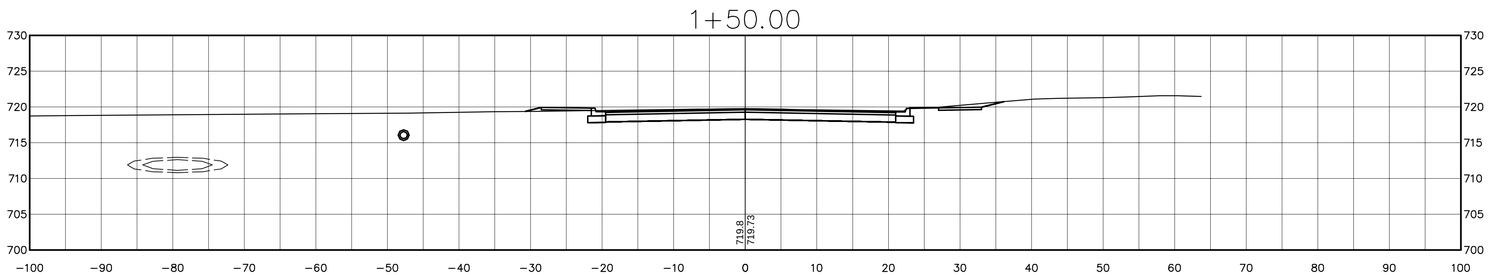
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	21 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 21 | Plotted: 10/24/13 @ 03:44:45 | User: Jason Walker





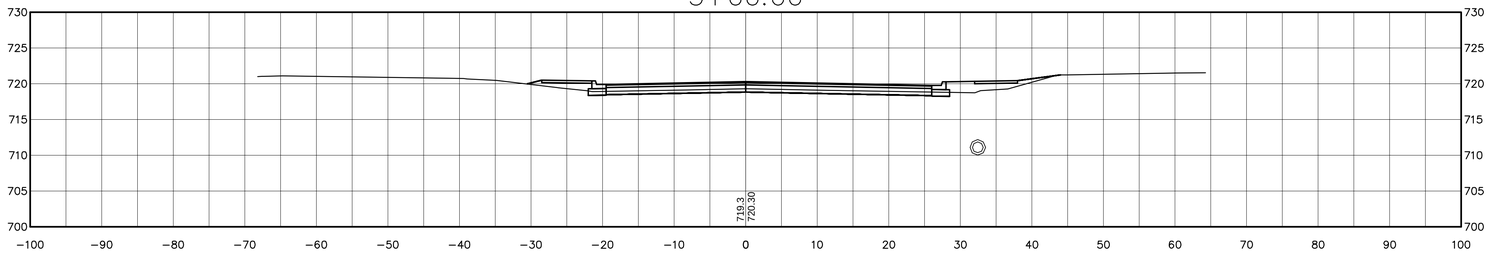




CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	22 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 22 | Plotted: 10/24/13 @ 03:45:06 | User: Jason Walker

3+00.00



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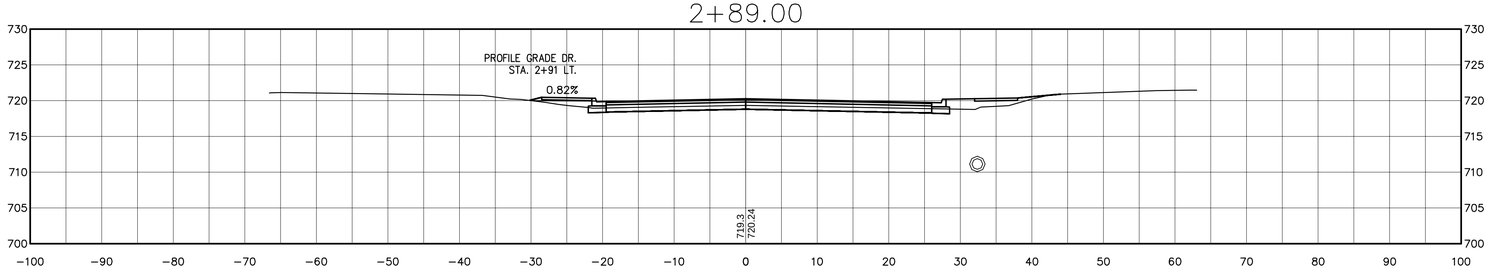

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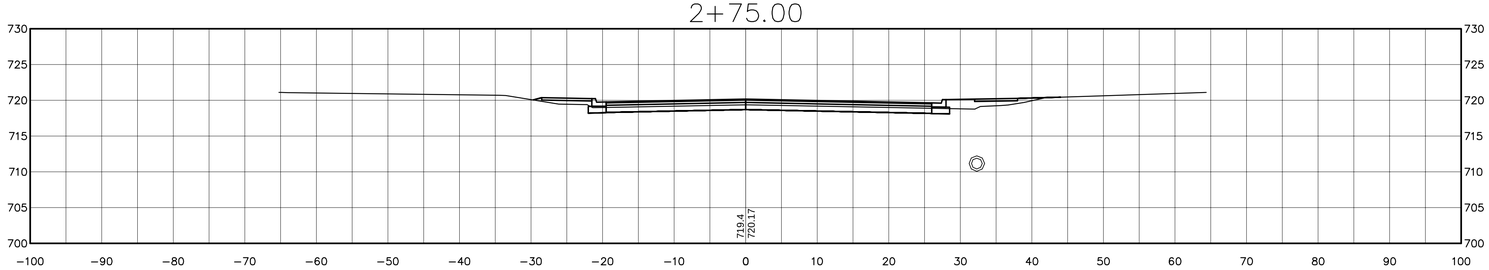

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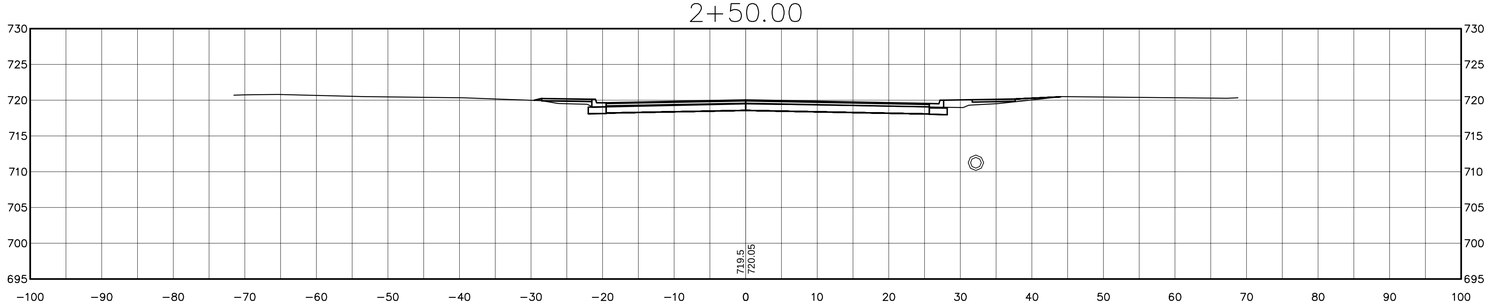
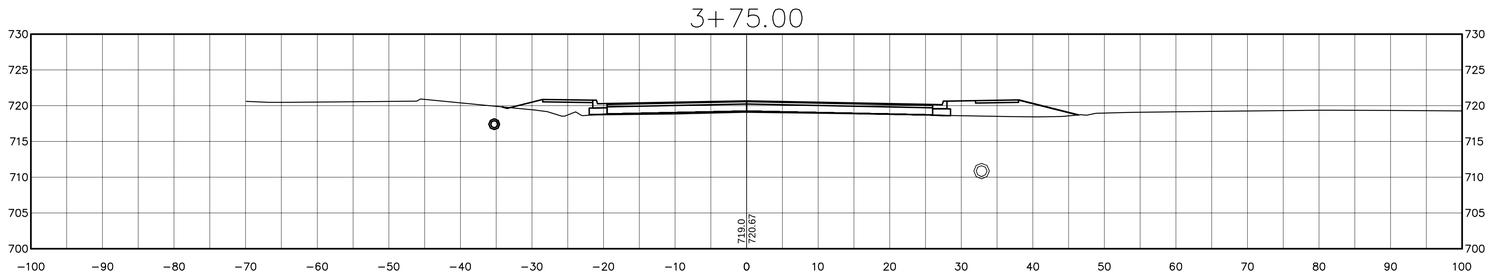
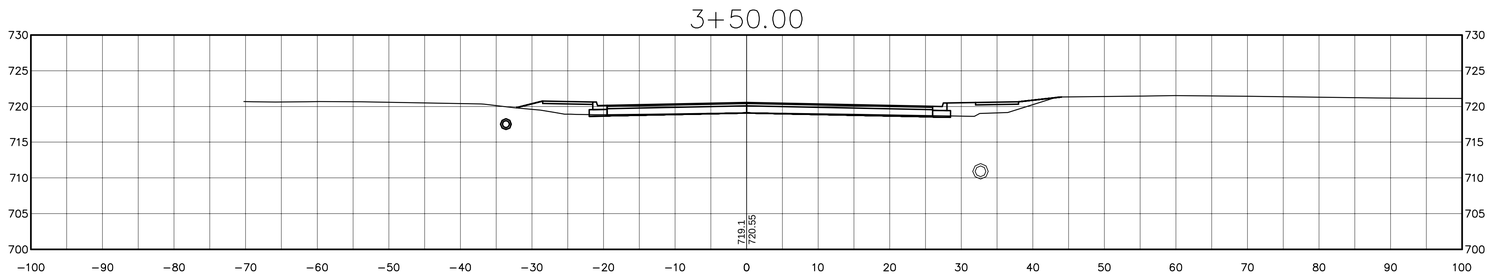
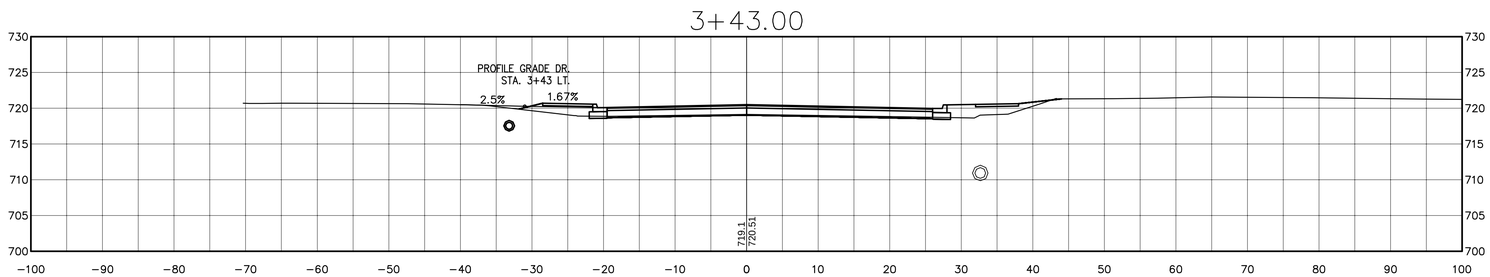


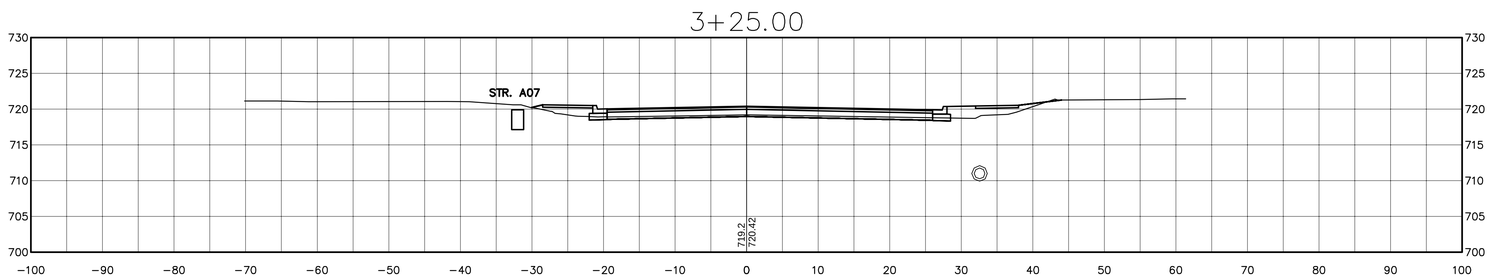
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	23 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 23 | Plotted: 10/24/13 @ 03:45:28 | User: Jason Walker





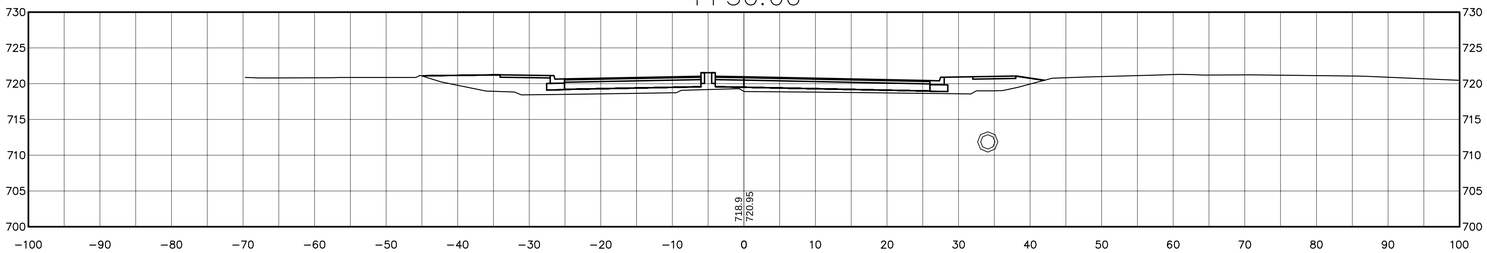




CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	24 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 24 | Plotted: 10/24/13 @ 03:45:49 | User: Jason Walker

4+50.00



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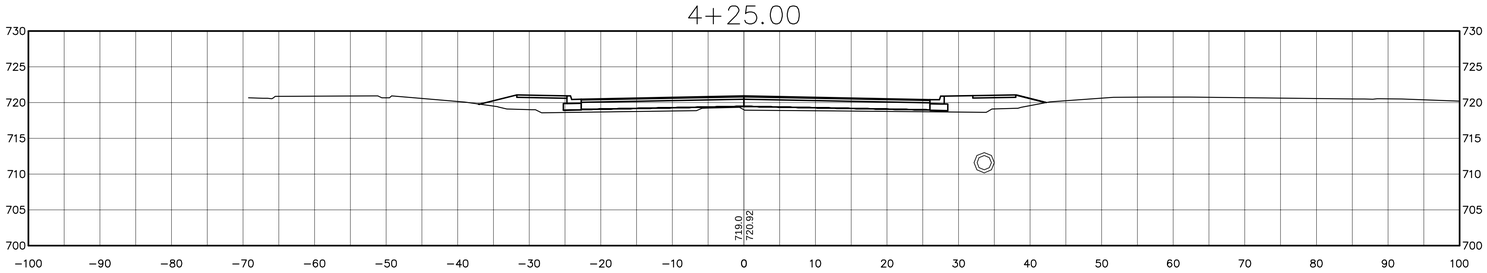

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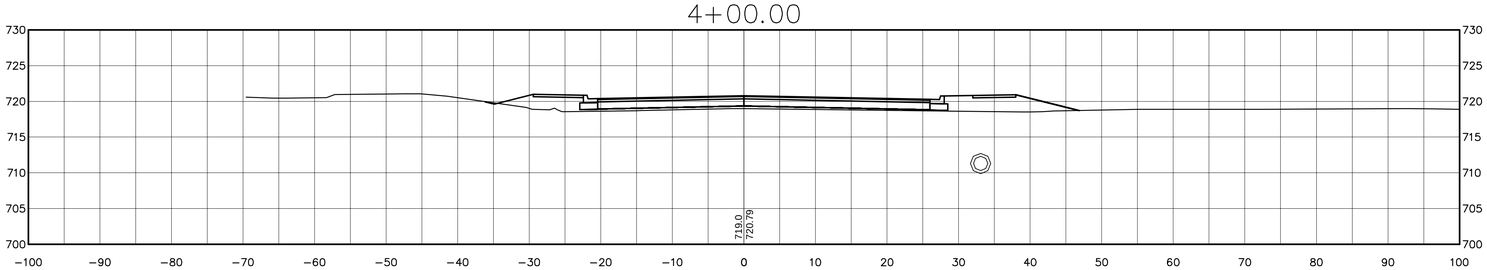

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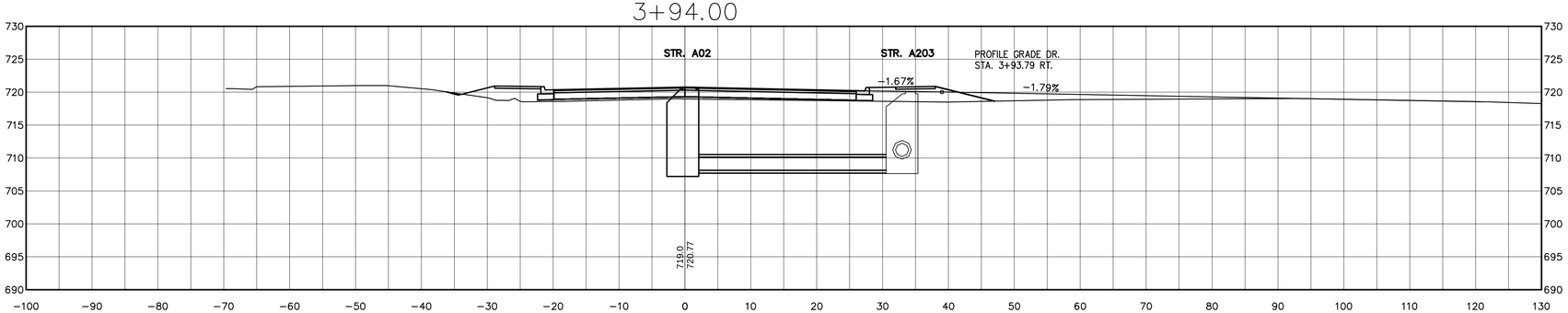
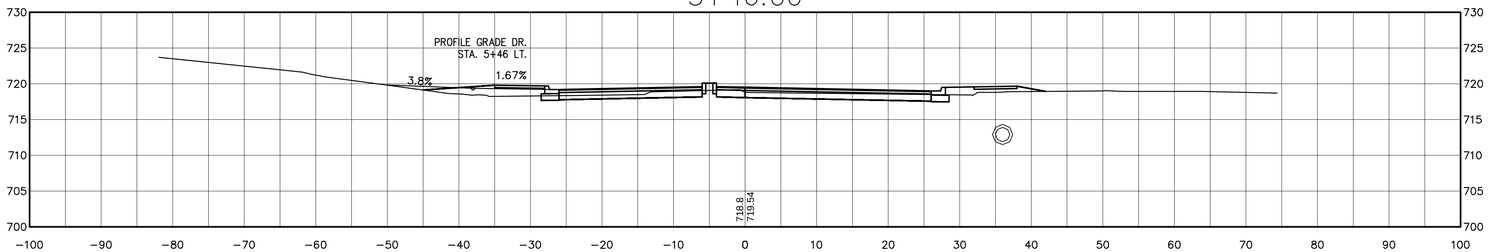


CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	25 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 25 | Plotted: 10/24/13 @ 03:46:11 | User: Jason Walker

5+46.00



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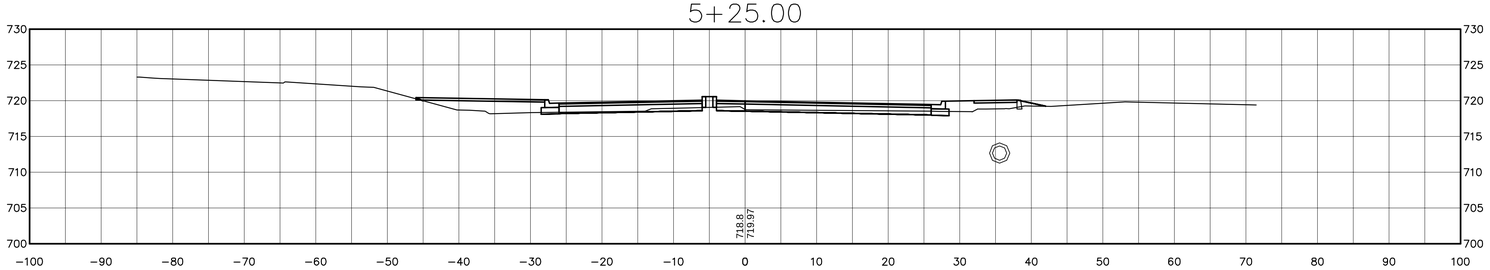

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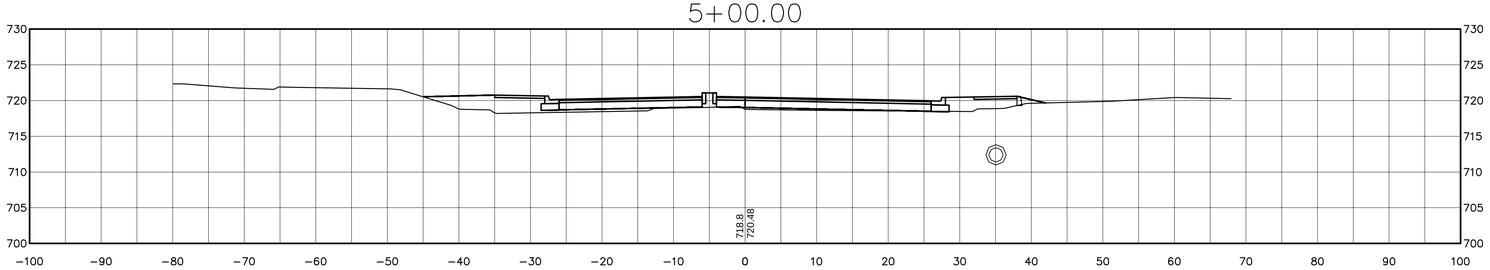

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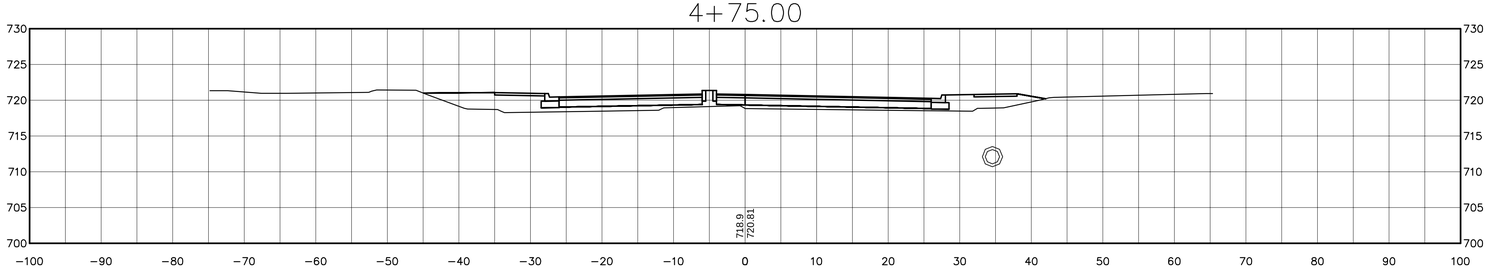
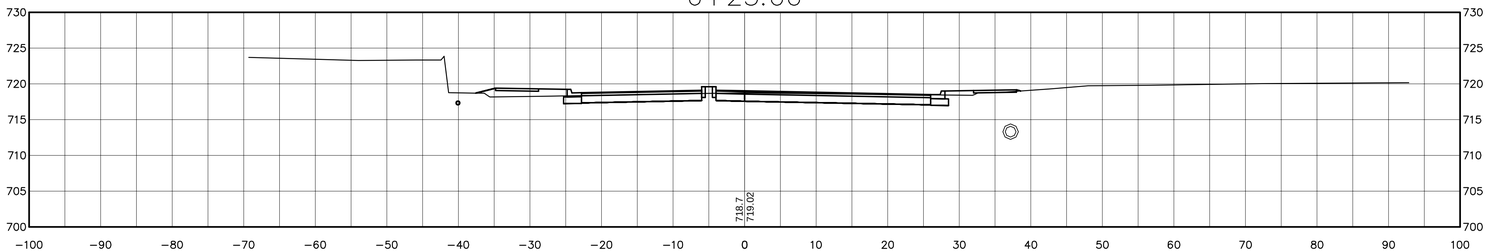


CROSS SECTIONS	HORIZONTAL SCALE
CROSS SECTION	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	26 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 26 | Plotted: 10/24/13 @ 03:46:32 | User: Jason Walker

6+25.00



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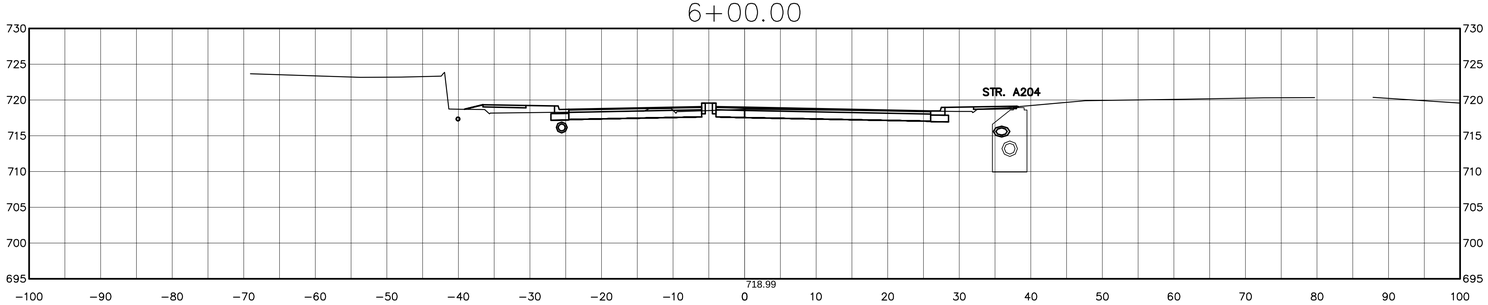

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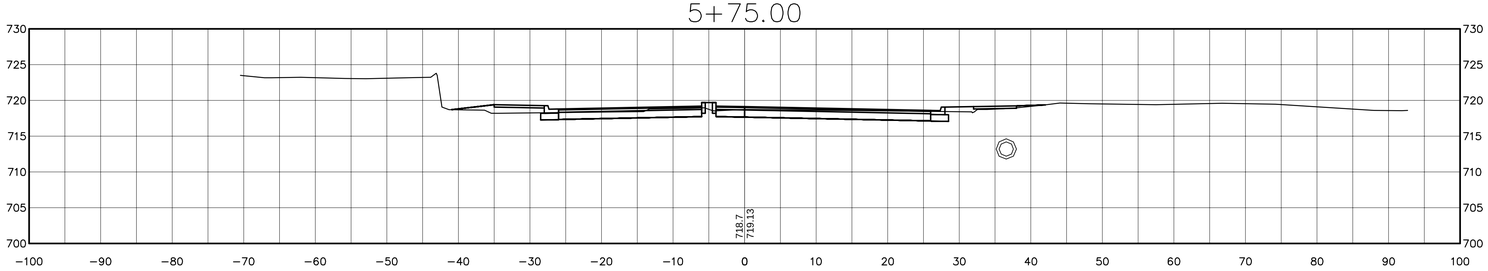

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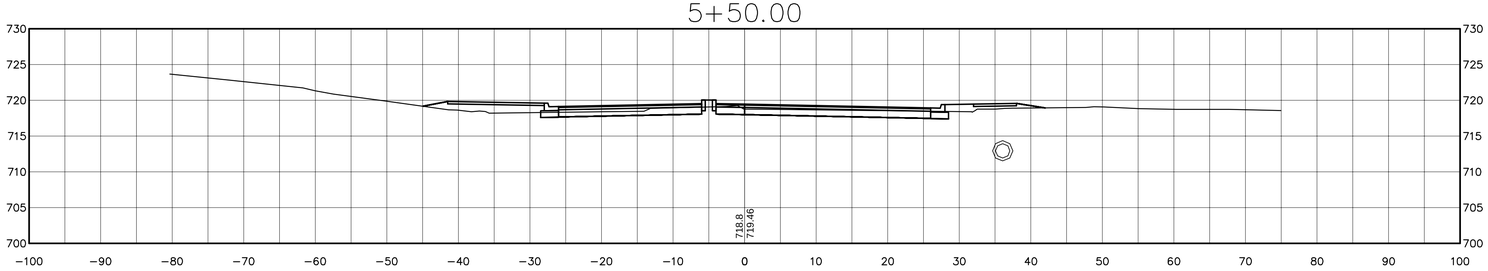
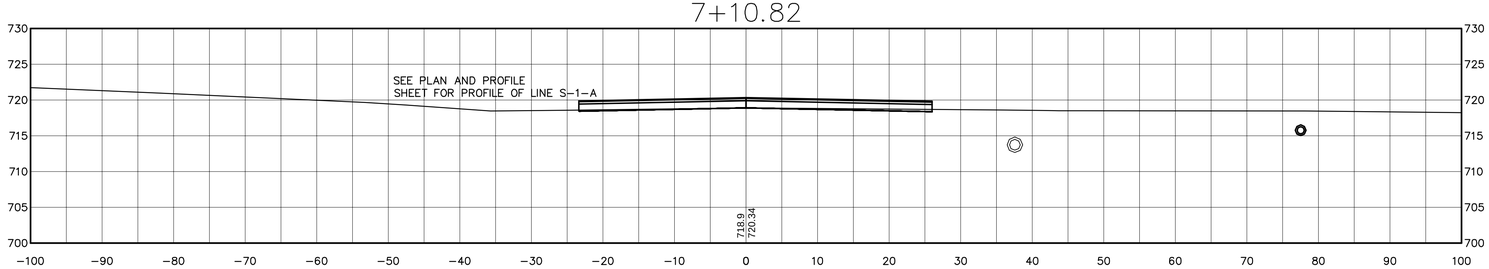


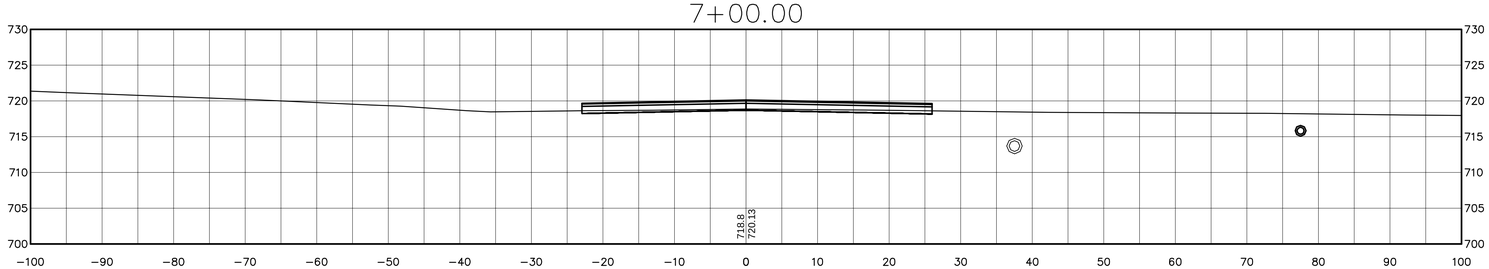
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	27 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 27 | Plotted: 10/24/13 @ 03:46:53 | User: Jason Walker

7+10.82



7+00.00



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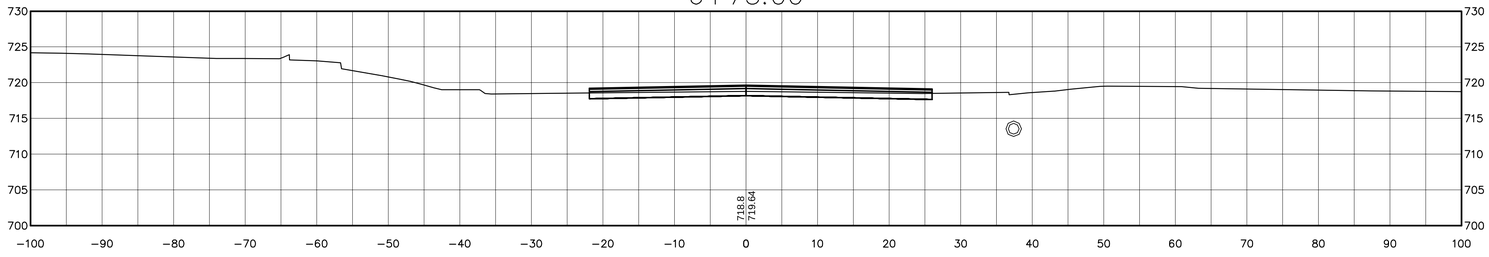

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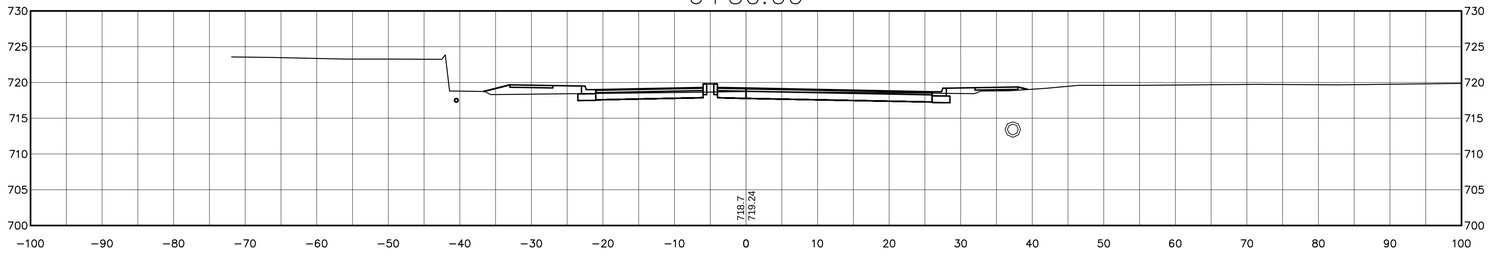
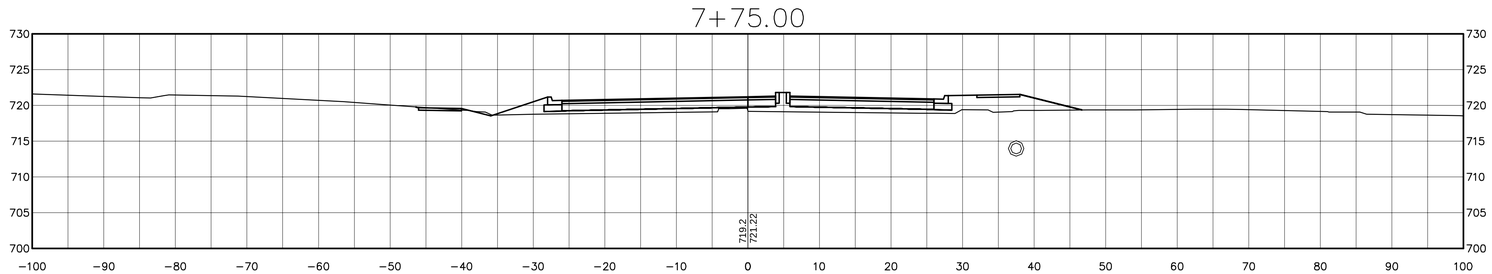
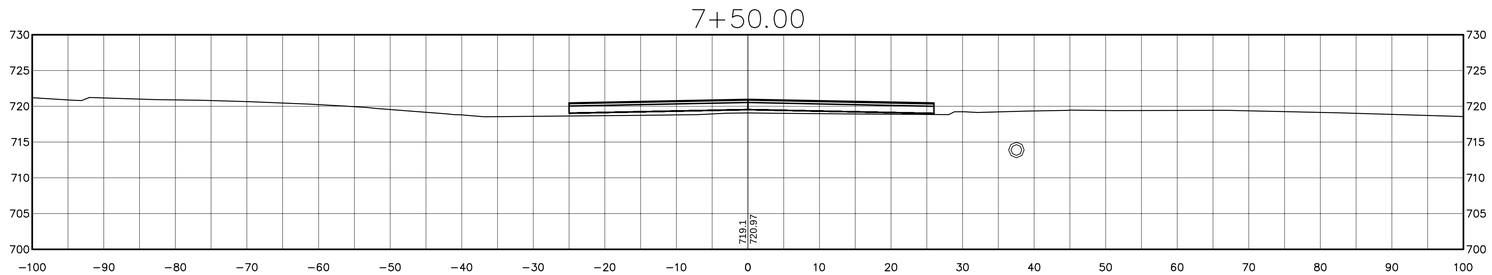
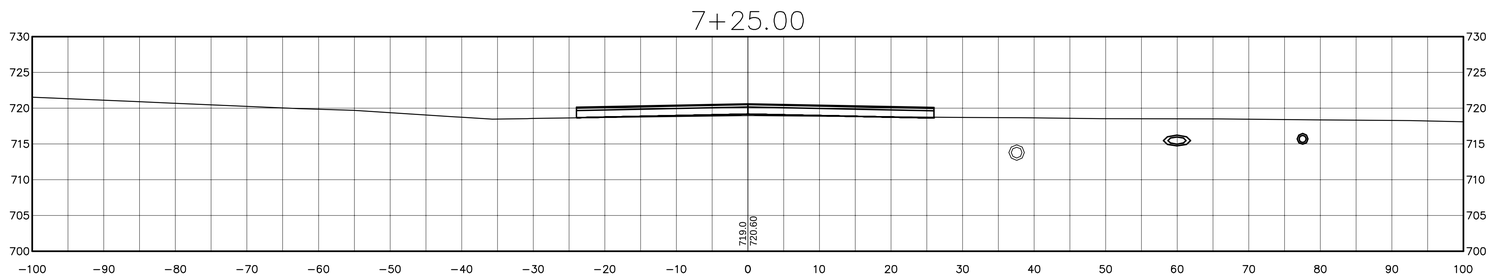


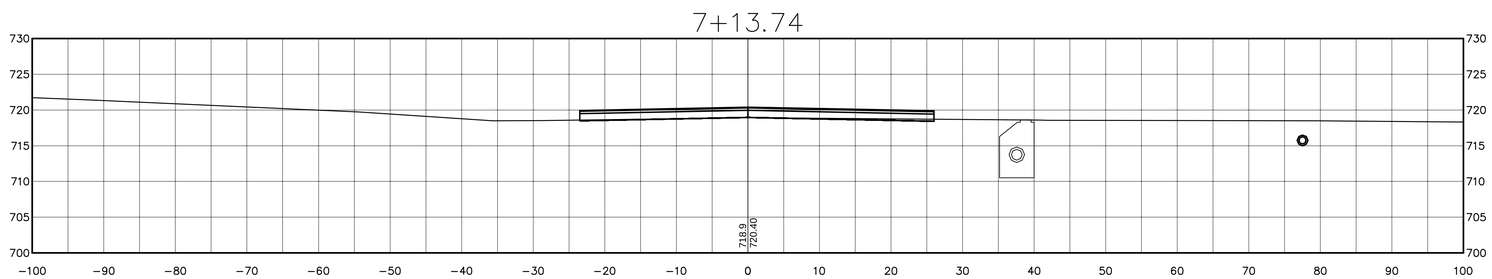
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	28 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 28 | Plotted: 10/24/13 @ 03:47:15 | User: Jason Walker



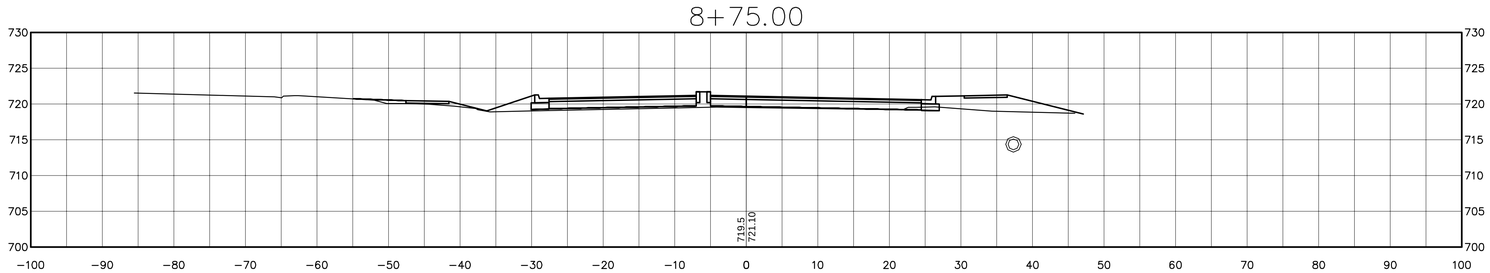


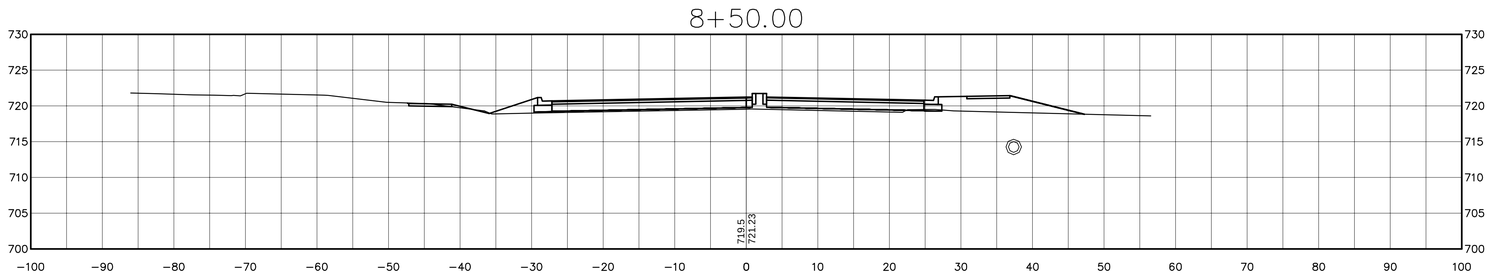


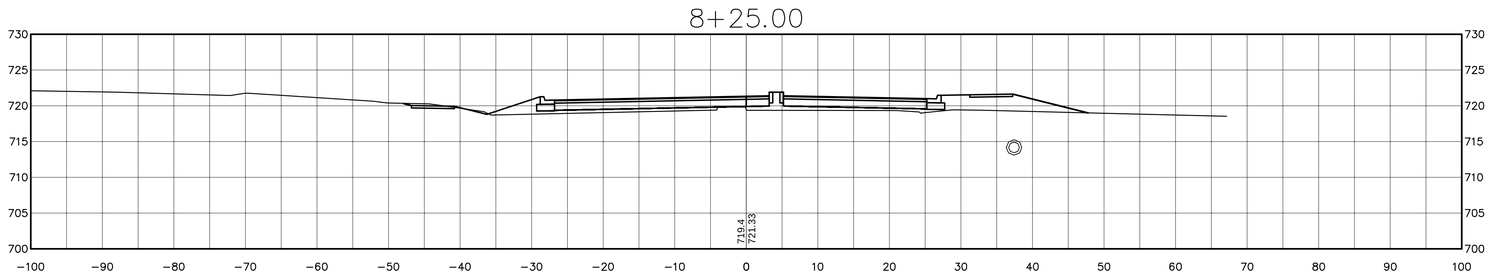


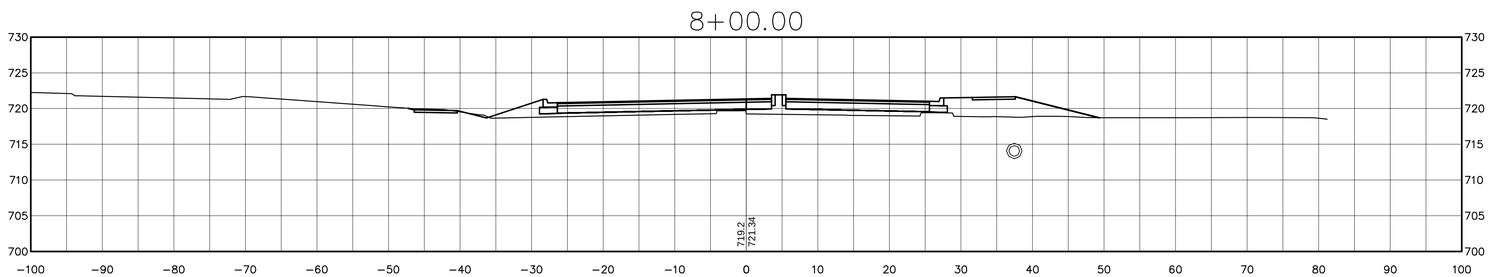
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	29 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 29 | Plotted: 10/24/13 @ 03:47:37 | User: Jason Walker





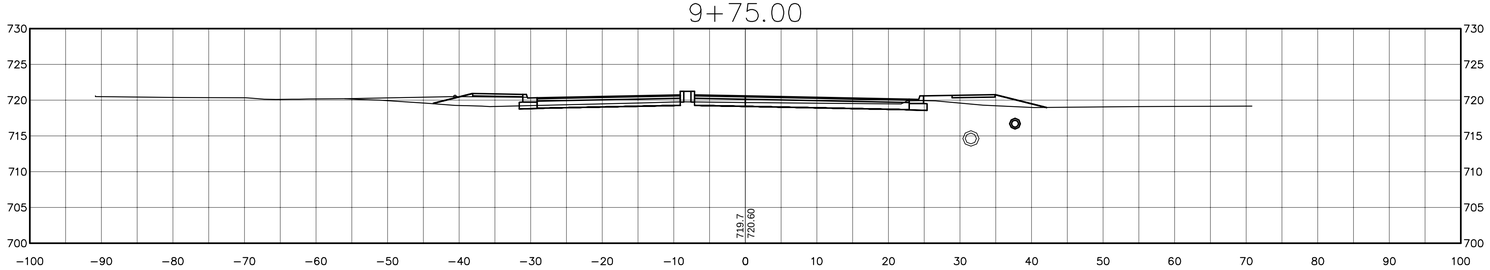




CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	30 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 30 | Plotted: 10/24/13 @ 03:47:58 | User: Jason Walker

9+75.00



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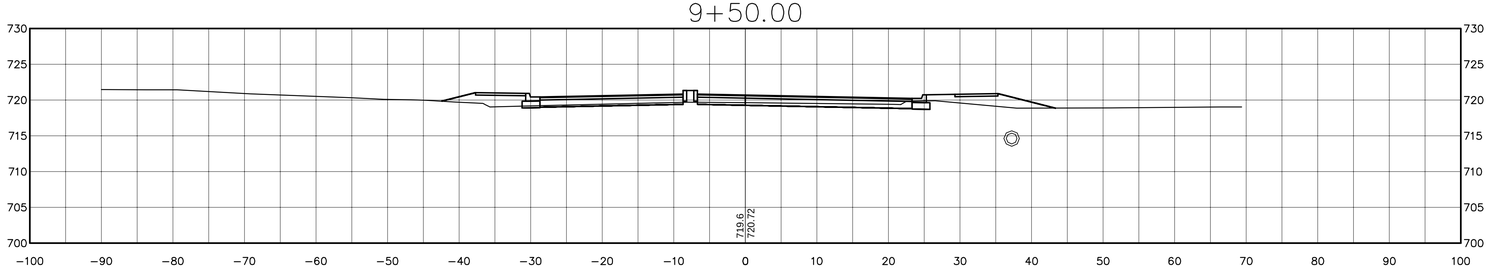

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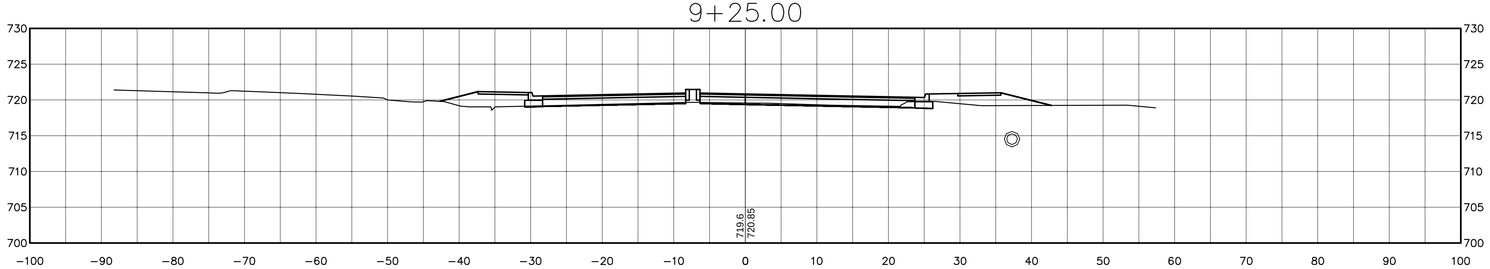

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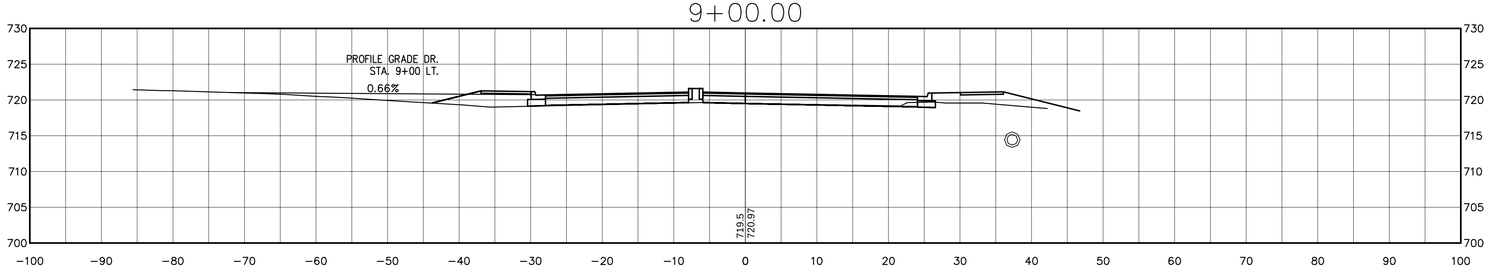

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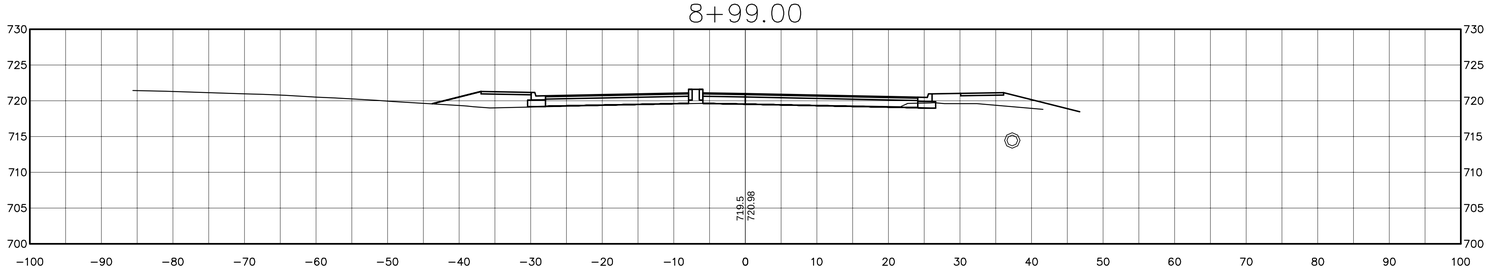

CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	31 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 31 | Plotted: 10/24/13 @ 03:48:19 | User: Jason Walker

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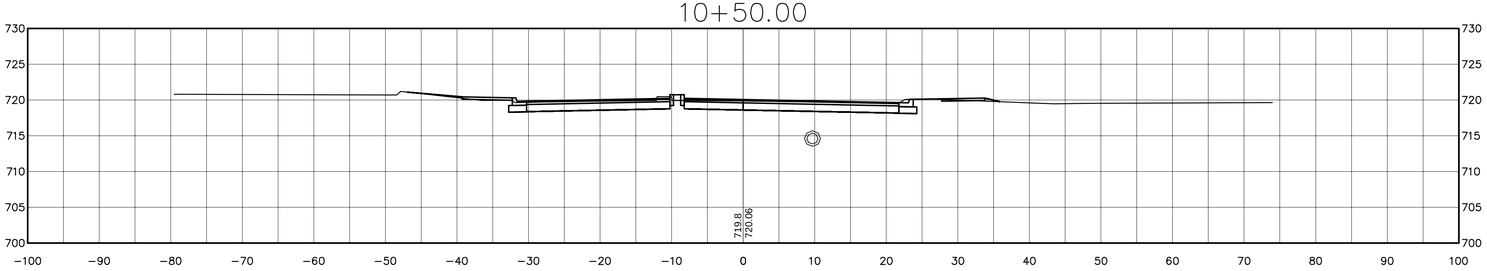

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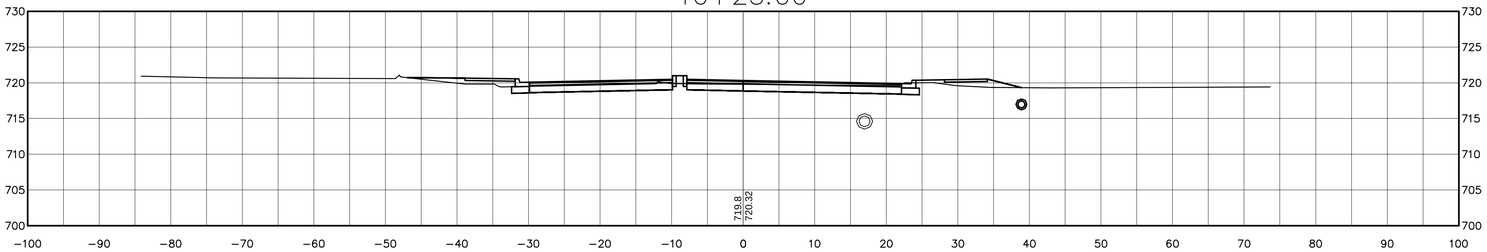

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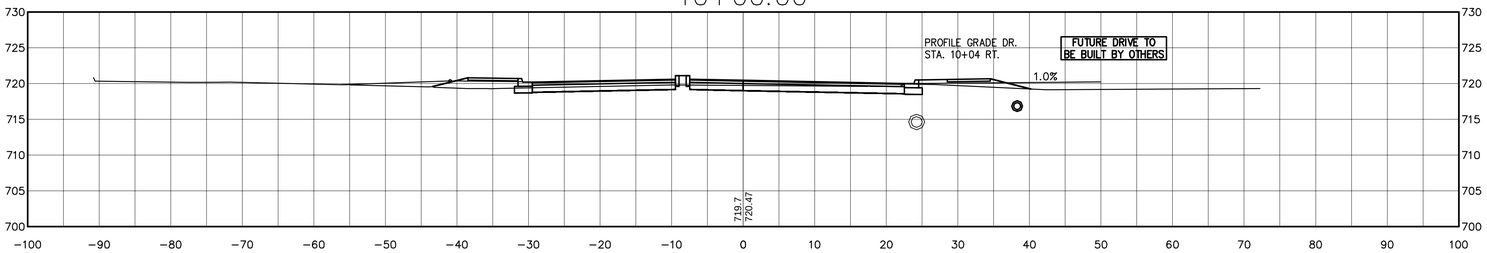

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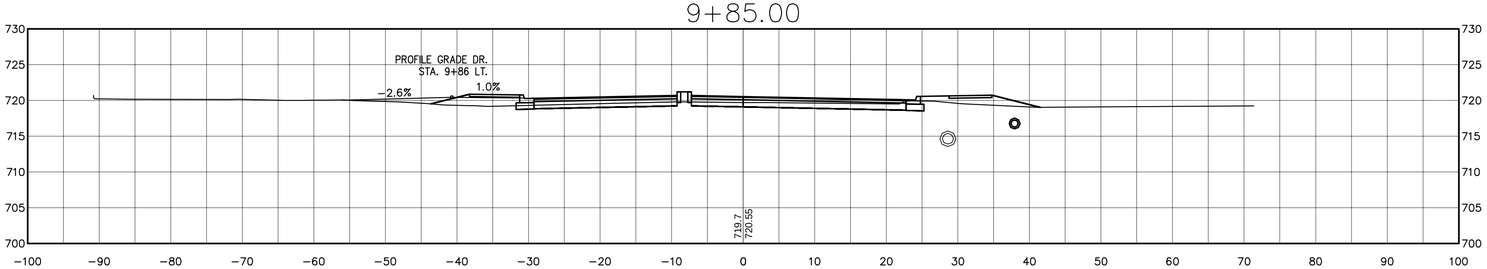
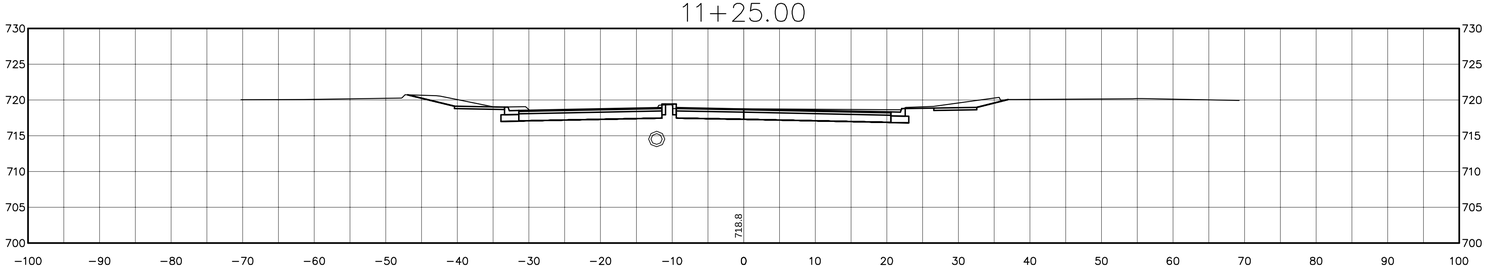


CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	32 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 32 | Plotted: 10/24/13 @ 03:48:41 | User: Jason Walker

11+25.00



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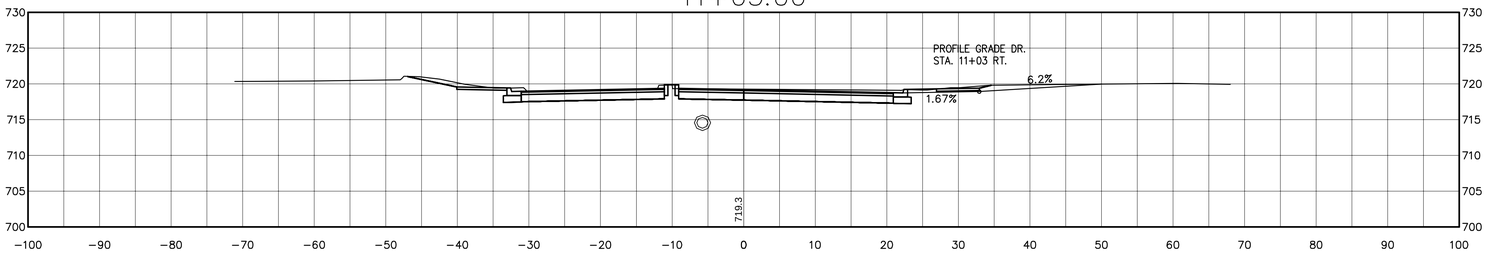

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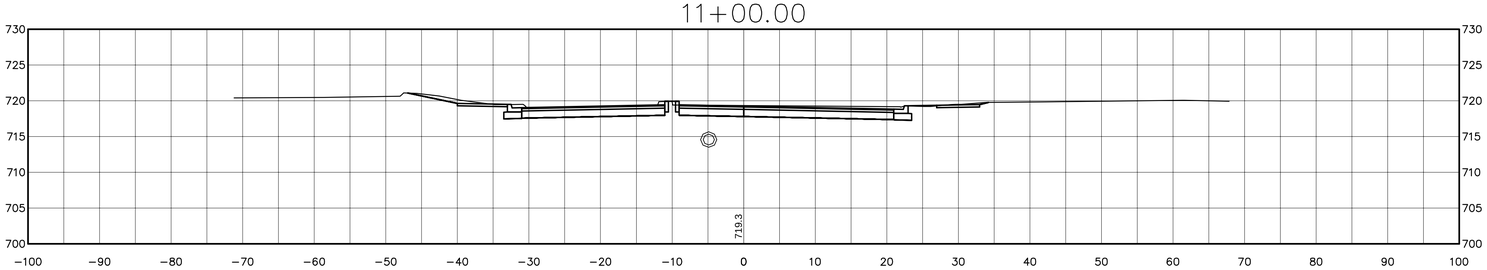

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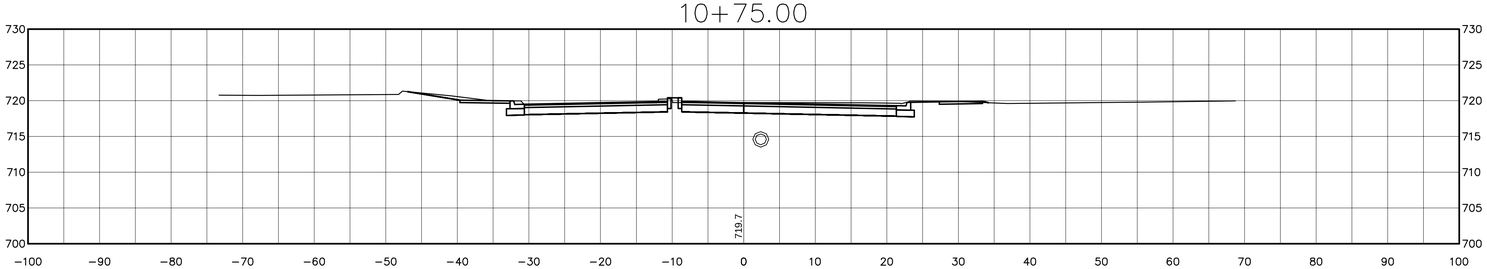
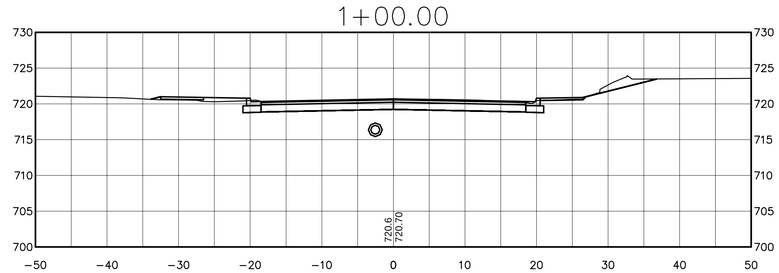
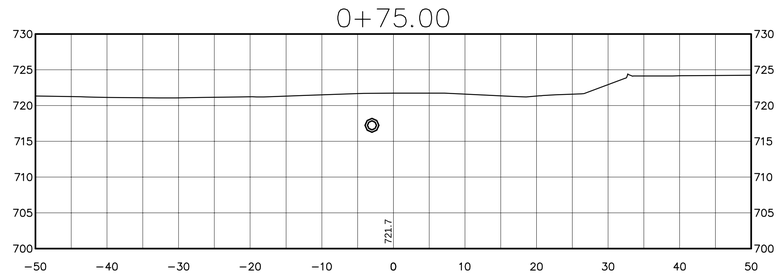
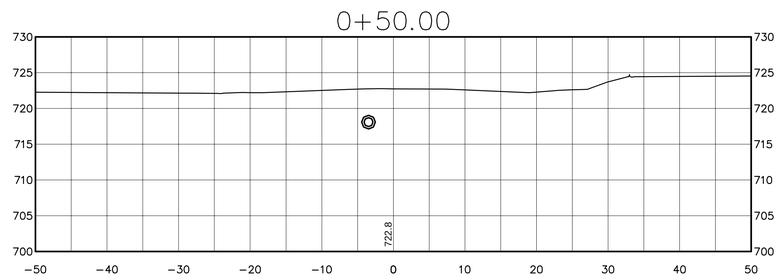


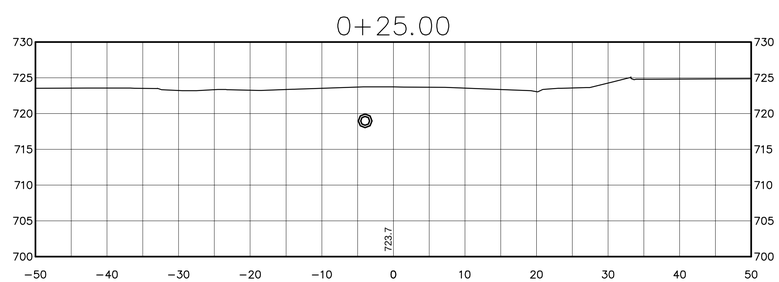
CROSS SECTIONS	HORIZONTAL SCALE
LINE A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	33 of 35
CONTRACT	PROJECT
	139310-04-001

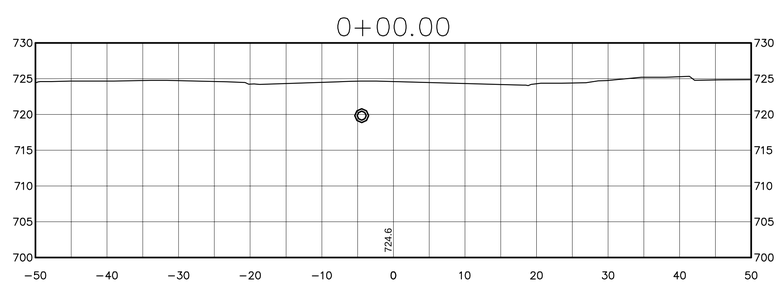
Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 33 | Plotted: 10/24/13 @ 03:49:03 | User: Jason Walker





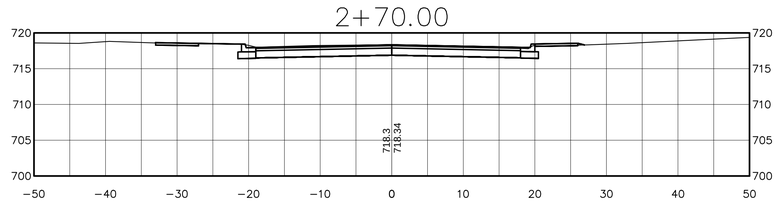


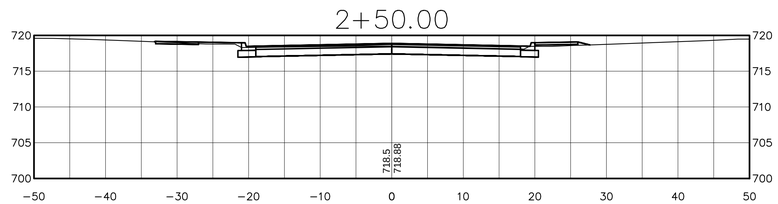


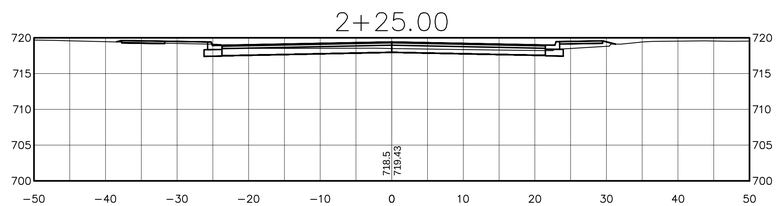


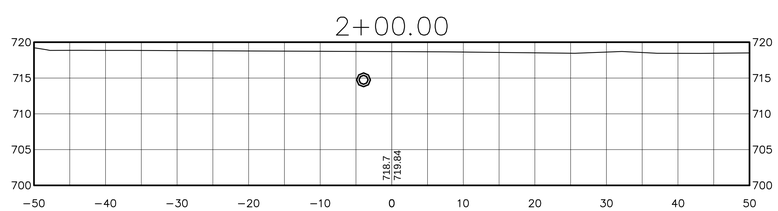
CROSS SECTIONS	HORIZONTAL SCALE
LINE S-1-A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	34 of 35
CONTRACT	PROJECT
	139310-04-001

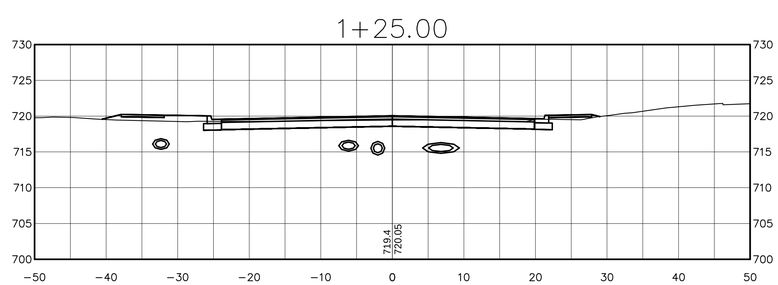
Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 34 | Plotted: 10/24/13 @ 03:49:33 | User: Jason Walker









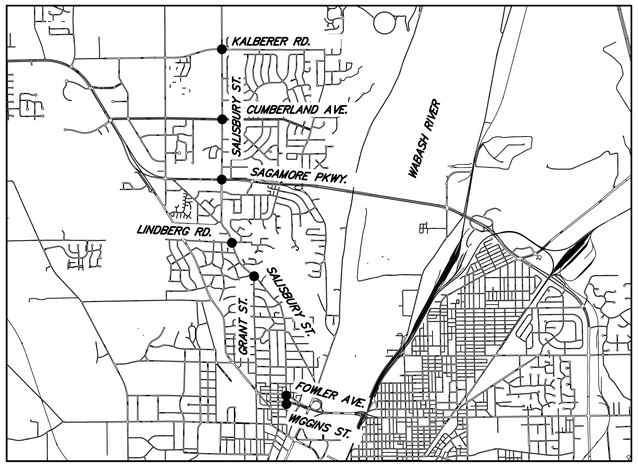


CROSS SECTIONS	HORIZONTAL SCALE
LINE S-1-A	1"=10'
DESIGNATION	VERTICAL SCALE
	1"=10'
SURVEY BOOK	SHEETS
	35 of 35
CONTRACT	PROJECT
	139310-04-001

Drawing: N:\Land Projects\139310-04-001\DWG\Sheets\139310-02-01-XS.dwg | Layout: 35 | Plotted: 10/24/13 @ 04:21:21 | User: Jason Walker

SALISBURY STREET
SAFETY IMPROVEMENTS-PHASE 3

SIGNAL PLANS



VICINITY MAP
TIPPECANOE COUNTY

SCALE: NONE

PROJECT LOCATION SHOWN BY

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	WIGGINS STREET SIGNAL
3	FOWLER AVENUE SIGNAL
4	GRANT STREET SIGNAL
5	LINDBERG ROAD SIGNAL
6	SAGAMORE PARKWAY SIGNAL
7	CUMBERLAND AVENUE SIGNAL
8	KALBERER ROAD SIGNAL
9–10	MISCELLANEOUS DETAILS
11	SUMMARY OF QUANTITIES

Indiana 811
Know what's below.
Call before you dig.

CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

PROJECT LOCATION

WEST LAFAYETTE

SALISBURY ST. W/ WIGGINS ST.
FOWLER AVE.
GRANT ST.
LINDBERG RD.
SAGAMORE PARKWAY
CUMBERLAND AVE.
KALBERER RD.

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED 2014, AND WEST LAFAYETTE CITY GUIDELINES AND DETAILS, DATED 2013, TO BE USED WITH THESE PLANS.

UTILITIES

Comcast 1002 E. Center Rd. Kokomo, IN 46902 Attn: Jerry Shutters Email:Jerry.Shutters@cable.comcast.com 765-455-5935	Duke Energy 3395 Greenbush St. Lafayette, IN 47905 Attn: Jordan Wallape Email:Jordan.Wallape@duke-energy.com 765-446-4010	Frontier Communications 3216 Imperial Pkwy. Lafayette, IN 47909 Attn: Ted Foster Email:Ted.Foster@ftr.com 765-423-3531	Vectren Gas 1250 S. Creasy Ln. Lafayette, IN 47905 Attn: Nick Brady Email:nbrady@vectren.com 765-449-8610	Indiana Datapipe, LLC 427 N. 6th St., Suite C Lafayette, IN 47901 Attn: Mike Wehr Email:mike@indianadataline.com 765-269-8570	Zayo Bandwidth 701 W. Henry St., Suite 201 Indianpolis, IN 46225 Attn: Jim Kellam Email:jkellam@zayo.com 317-524-5713	Indiana American Water of West Lafayette 1007 Happy Hollow Rd. W. Lafayette, IN 47906 Attn: Christopher Johnson 765-743-7973	City of West Lafayette Public Works Director 500 S. River Rd. West Lafayette, IN 47906 Attn: David Downey 765-775-5145	Purdue University Office of the Univ. Arch. 401 S. Grant St. West Lafayette, IN 47907 Attn: Jim Knapp 765-494-3417

Headquarters
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN. 46240–8302
TEL 317–713–4615
FAX 317–713–4616
www.BFSEngr.com

BF&S Butler Fairman & Seufert CIVIL ENGINEERS

Branch Locations
FORT WAYNE 260–459–1532
JEFFERSONVILLE 812–285–0590
LAFAYETTE 765–423–5602
MERRILLVILLE 219–769–2333
PLAINFIELD 317–839–3242

CERTIFIED BY: _____

DATE

FILE

DESIGNATION

SHEET 01 OF 11

PROJECT

BFS NO. 5552

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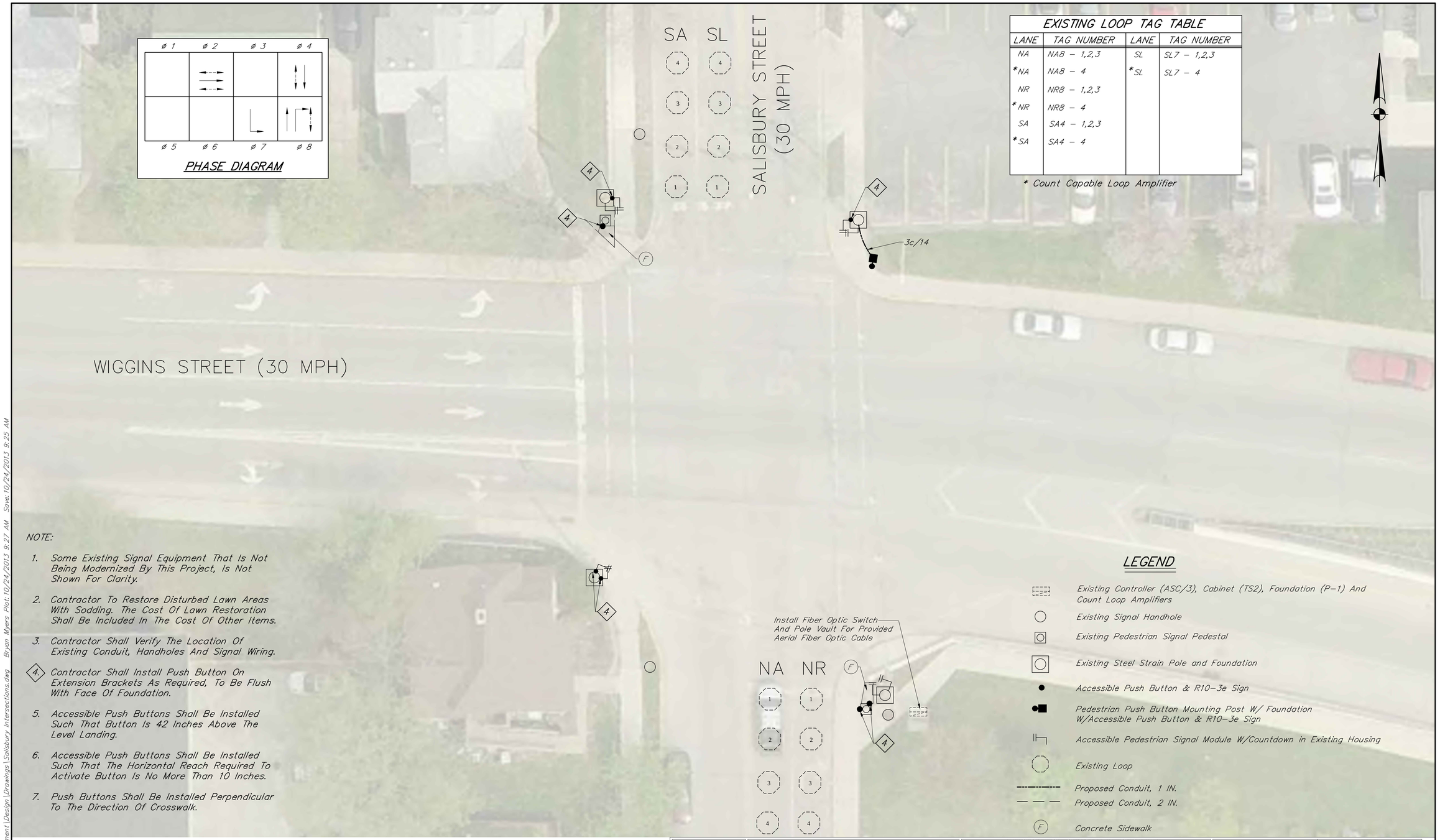

EXISTING LOOP TAG TABLE			
LANE	TAG NUMBER	LANE	TAG NUMBER
NA	NA8 – 1,2,3	SL	SL7 – 1,2,3
*NA	NA8 – 4	*SL	SL7 – 4
NR	NR8 – 1,2,3		
*NR	NR8 – 4		
SA	SA4 – 1,2,3		
*SA	SA4 – 4		

* Count Capable Loop Amplifier

NOTE:

1. Some Existing Signal Equipment That Is Not Being Modernized By This Project, Is Not Shown For Clarity.
2. Contractor To Restore Disturbed Lawn Areas With Sodding. The Cost Of Lawn Restoration Shall Be Included In The Cost Of Other Items.
3. Contractor Shall Verify The Location Of Existing Conduit, Handholes And Signal Wiring.
4. Contractor Shall Install Push Button On Extension Brackets As Required, To Be Flush With Face Of Foundation.
5. Accessible Push Buttons Shall Be Installed Such That Button Is 42 Inches Above The Level Landing.
6. Accessible Push Buttons Shall Be Installed Such That The Horizontal Reach Required To Activate Button Is No More Than 10 Inches.
7. Push Buttons Shall Be Installed Perpendicular To The Direction Of Crosswalk.

LEGEND

- Existing Controller (ASC/3), Cabinet (TS2), Foundation (P-1) And Count Loop Amplifiers
- Existing Signal Handhole
- Existing Pedestrian Signal Pedestal
- Existing Steel Strain Pole and Foundation
- Accessible Push Button & R10-3e Sign
- Pedestrian Push Button Mounting Post W/ Foundation W/Accessible Push Button & R10-3e Sign
- Accessible Pedestrian Signal Module W/Countdown in Existing Housing
- Existing Loop
- Proposed Conduit, 1 IN.
- Proposed Conduit, 2 IN.
- Concrete Sidewalk

RECOMMENDED FOR APPROVAL: _____
DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM
CHECKED: CWW CHECKED: JCS

WIGGINS STREET SIGNAL
SALISBURY ST. SAFETY IMPROVEMENTS
WEST LAFAYETTE PHASE 3 INDIANA

Headquarters
8450 WESTFIELD BLVD., SUITE 300
INDIANAPOLIS, IN. 46240-8302
TEL 317-713-4615
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Butler Fairman & Seufert CIVIL ENGINEERS

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JEFFERSONVILLE 812-285-0590
LAFAYETTE 765-423-5602
MERRILLVILLE 219-769-2333
PLAINFIELD 317-839-3242

HORIZONTAL SCALE	FILE
1"=10'	
VERTICAL SCALE	DESIGNATION
NA	
SURVEY BOOK	SHEET
	02 OF 11
CONTRACT	PROJECT

BFS NO. 5552

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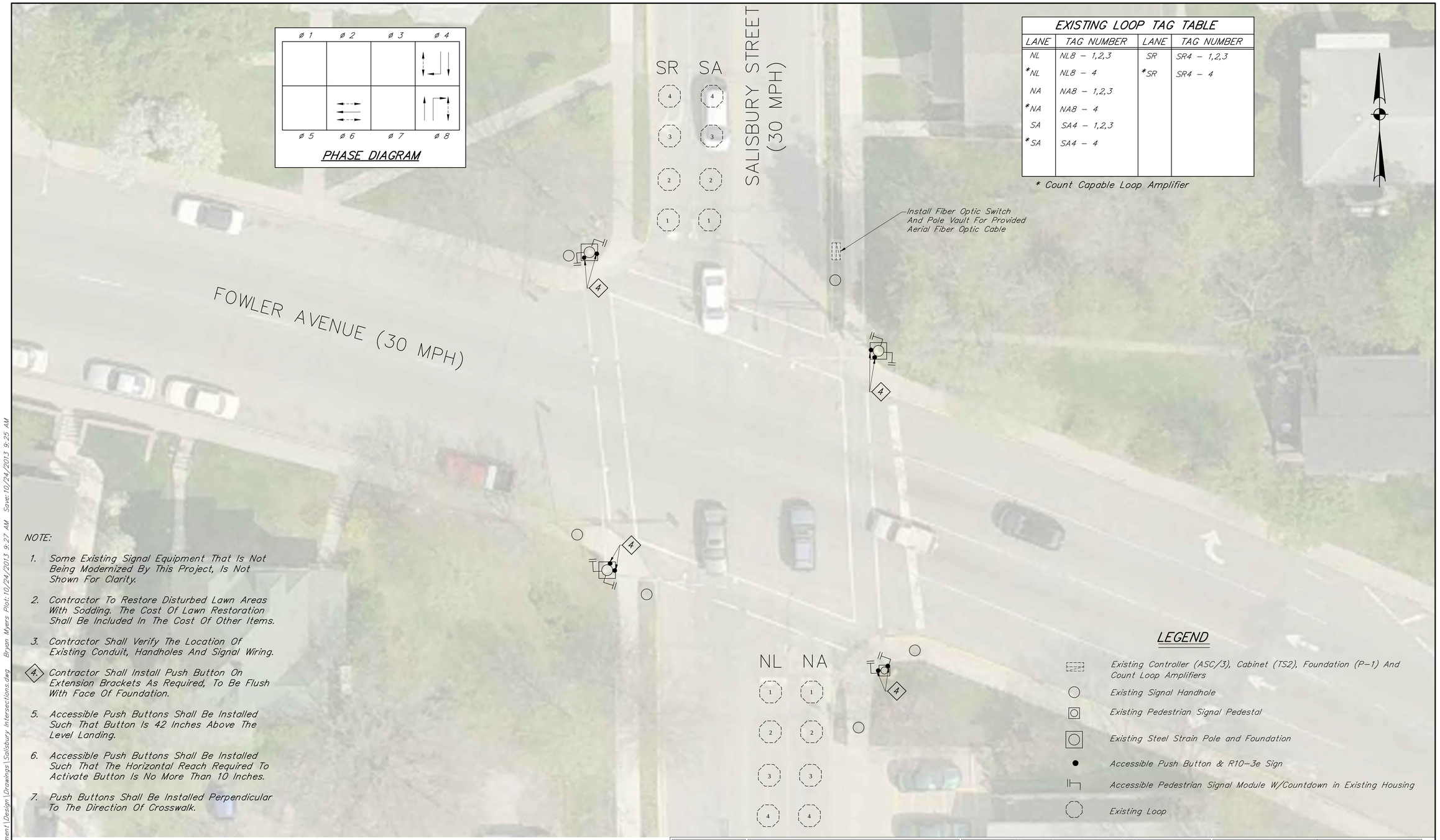

EXISTING LOOP TAG TABLE			
LANE	TAG NUMBER	LANE	TAG NUMBER
NL	NL8 – 1,2,3	SR	SR4 – 1,2,3
*NL	NL8 – 4	*SR	SR4 – 4
NA	NA8 – 1,2,3		
*NA	NA8 – 4		
SA	SA4 – 1,2,3		
*SA	SA4 – 4		

* Count Capable Loop Amplifier

NOTE:

1. Some Existing Signal Equipment That Is Not Being Modernized By This Project, Is Not Shown For Clarity.
2. Contractor To Restore Disturbed Lawn Areas With Sodding. The Cost Of Lawn Restoration Shall Be Included In The Cost Of Other Items.
3. Contractor Shall Verify The Location Of Existing Conduit, Handholes And Signal Wiring.
4. Contractor Shall Install Push Button On Extension Brackets As Required, To Be Flush With Face Of Foundation.
5. Accessible Push Buttons Shall Be Installed Such That Button Is 42 Inches Above The Level Landing.
6. Accessible Push Buttons Shall Be Installed Such That The Horizontal Reach Required To Activate Button Is No More Than 10 Inches.
7. Push Buttons Shall Be Installed Perpendicular To The Direction Of Crosswalk.

LEGEND

- Existing Controller (ASC/3), Cabinet (TS2), Foundation (P-1) And Count Loop Amplifiers
- Existing Signal Handhole
- Existing Pedestrian Signal Pedestal
- Existing Steel Strain Pole and Foundation
- Accessible Push Button & R10-3e Sign
- Accessible Pedestrian Signal Module W/Countdown in Existing Housing
- Existing Loop

RECOMMENDED FOR APPROVAL: _____
DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM
CHECKED: CWW CHECKED: JCS

FOWLER AVENUE SIGNAL
SALISBURY ST. SAFETY IMPROVEMENTS
WEST LAFAYETTE PHASE 3 INDIANA

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LAFAYETTE 765-423-5602
MERRILLVILLE 219-769-2333
PLAINFIELD 317-839-3242

HORIZONTAL SCALE	FILE
1"=10'	
VERTICAL SCALE	DESIGNATION
NA	
SURVEY BOOK	SHEET
	03 OF 11
CONTRACT	PROJECT

BFS NO. 5552

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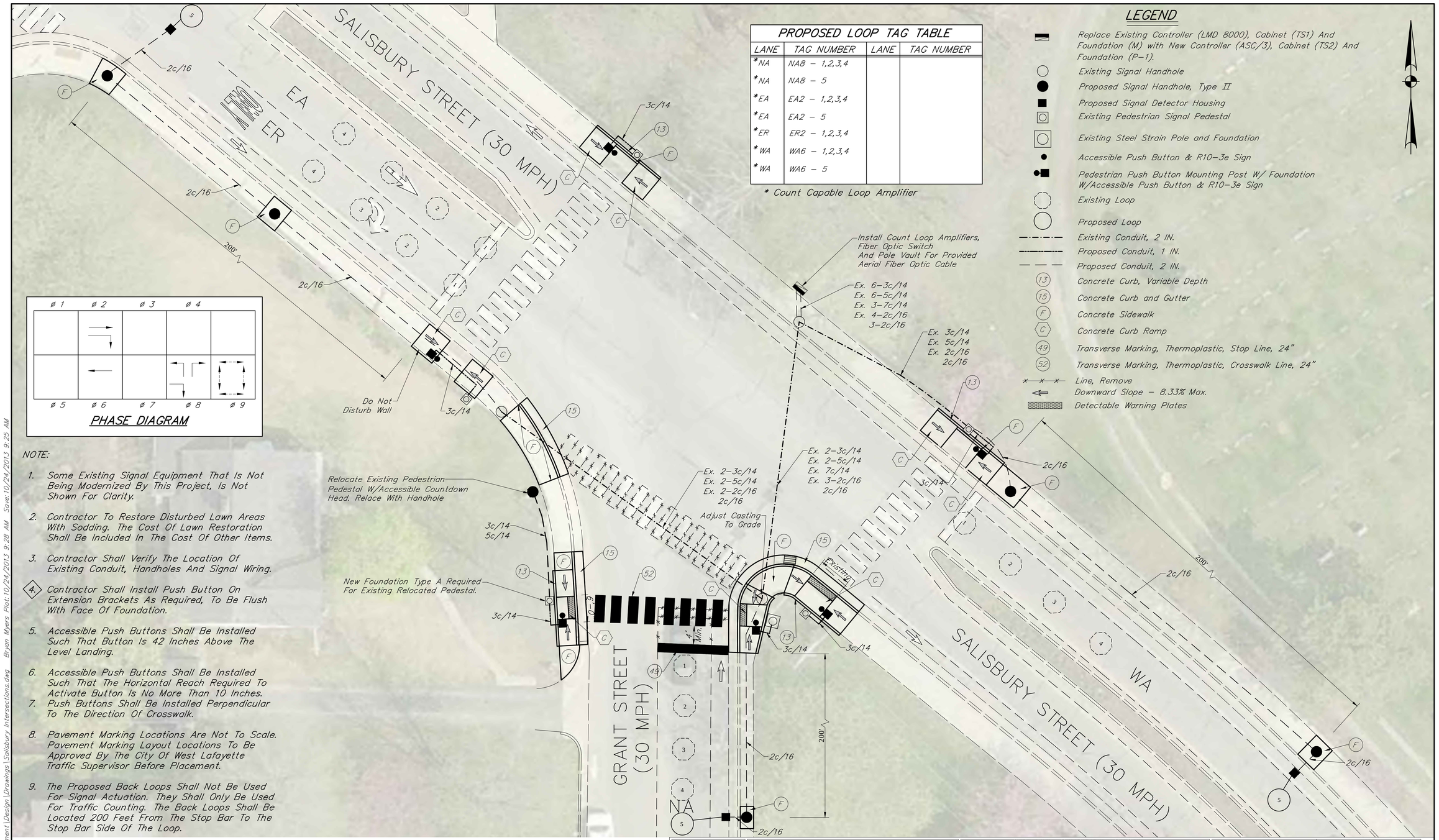

PROPOSED LOOP TAG TABLE

LANE	TAG NUMBER	LANE	TAG NUMBER
*NA	NA8 – 1,2,3,4		
*NA	NA8 – 5		
*EA	EA2 – 1,2,3,4		
*EA	EA2 – 5		
*ER	ER2 – 1,2,3,4		
*WA	WA6 – 1,2,3,4		
*WA	WA6 – 5		

* Count Capable Loop Amplifier

LEGEND

- Replace Existing Controller (LMD 8000), Cabinet (TS1) And Foundation (M) with New Controller (ASC/3), Cabinet (TS2) And Foundation (P–1).
- Existing Signal Handhole
- Proposed Signal Handhole, Type II
- Proposed Signal Detector Housing
- Existing Pedestrian Signal Pedestal
- Existing Steel Strain Pole and Foundation
- Accessible Push Button & R10–3e Sign
- Pedestrian Push Button Mounting Post W/ Foundation W/Accessible Push Button & R10–3e Sign
- Existing Loop
- Proposed Loop
- Existing Conduit, 2 IN.
- Proposed Conduit, 1 IN.
- Proposed Conduit, 2 IN.
- 13 Concrete Curb, Variable Depth
- 15 Concrete Curb and Gutter
- F Concrete Sidewalk
- C Concrete Curb Ramp
- 49 Transverse Marking, Thermoplastic, Stop Line, 24"
- 52 Transverse Marking, Thermoplastic, Crosswalk Line, 24"
- Line, Remove
- Downward Slope – 8.33% Max.
- Detectable Warning Plates

NOTE:

1. Some Existing Signal Equipment That Is Not Being Modernized By This Project, Is Not Shown For Clarity.
2. Contractor To Restore Disturbed Lawn Areas With Sodding. The Cost Of Lawn Restoration Shall Be Included In The Cost Of Other Items.
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7. Push Buttons Shall Be Installed Perpendicular To The Direction Of Crosswalk.
8. Pavement Marking Locations Are Not To Scale. Pavement Marking Layout Locations To Be Approved By The City Of West Lafayette Traffic Supervisor Before Placement.
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CHECKED: CWW CHECKED: JCS

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FAX 317–713–4616
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PLAINFIELD 317–839–3242

HORIZONTAL SCALE	FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	04 OF 11
CONTRACT	PROJECT

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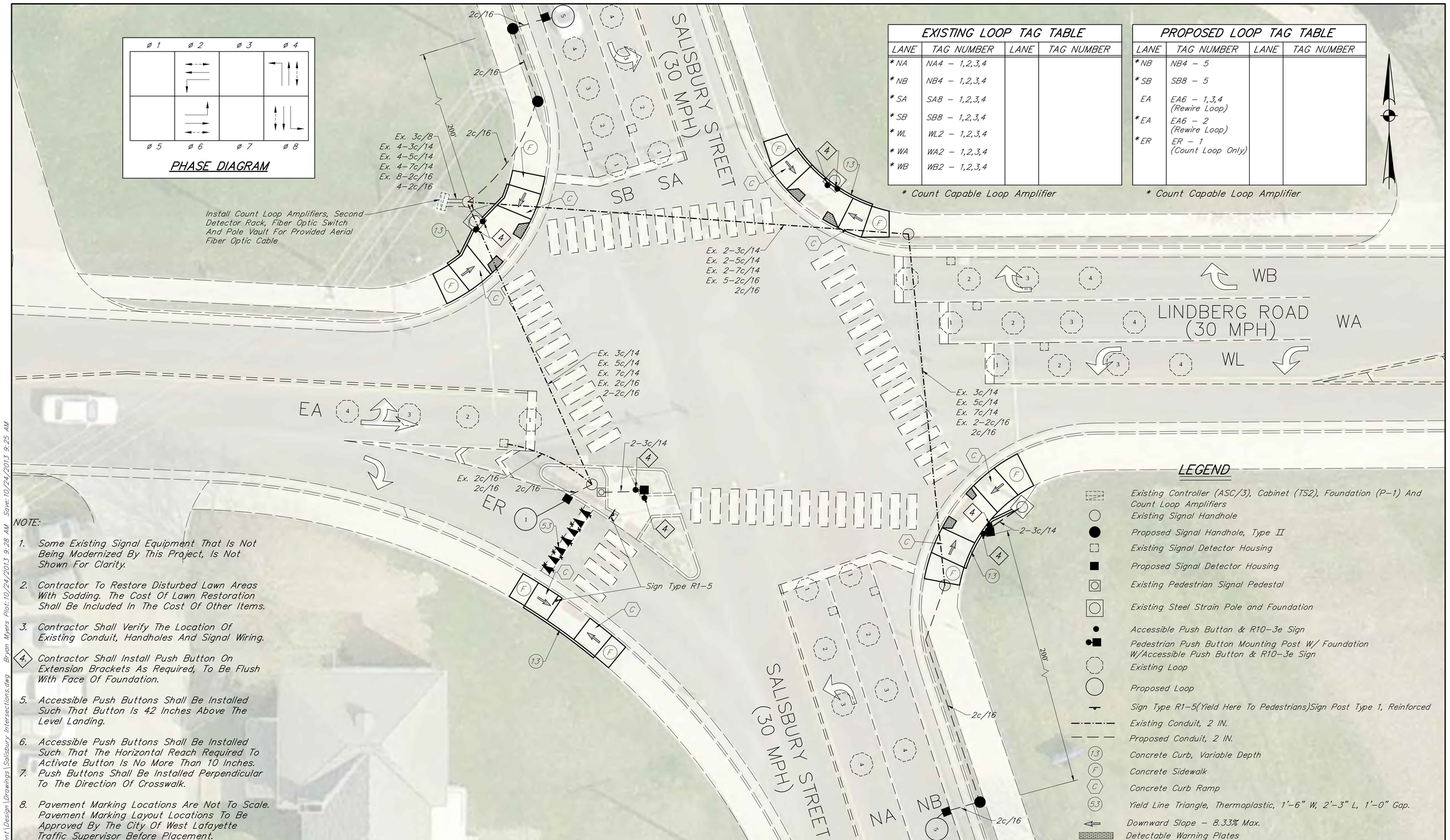

EXISTING LOOP TAG TABLE			
LANE	TAG NUMBER	LANE	TAG NUMBER
* NA	NA4 – 1,2,3,4		
* NB	NB4 – 1,2,3,4		
* SA	SA8 – 1,2,3,4		
* SB	SB8 – 1,2,3,4		
* WL	WL2 – 1,2,3,4		
* WA	WA2 – 1,2,3,4		
* WB	WB2 – 1,2,3,4		

* Count Capable Loop Amplifier

PROPOSED LOOP TAG TABLE			
LANE	TAG NUMBER	LANE	TAG NUMBER
* NB	NB4 – 5		
* SB	SB8 – 5		
EA	EA6 – 1,3,4 (Rewire Loop)		
* EA	EA6 – 2 (Rewire Loop)		
* ER	ER – 1 (Count Loop Only)		

* Count Capable Loop Amplifier

LEGEND

- Existing Controller (ASC/3), Cabinet (TS2), Foundation (P-1) And Count Loop Amplifiers
- Existing Signal Handhole
- Proposed Signal Handhole, Type II
- Existing Signal Detector Housing
- Proposed Signal Detector Housing
- Existing Pedestrian Signal Pedestal
- Existing Steel Strain Pole and Foundation
- Accessible Push Button & R10-3e Sign
- Pedestrian Push Button Mounting Post W/ Foundation W/Accessible Push Button & R10-3e Sign
- Existing Loop
- Proposed Loop
- Sign Type R1-5(Yield Here To Pedestrians)Sign Post Type 1, Reinforced
- Existing Conduit, 2 IN.
- Proposed Conduit, 2 IN.
- (13) Concrete Curb, Variable Depth
- (F) Concrete Sidewalk
- (C) Concrete Curb Ramp
- (5.3) Yield Line Triangle, Thermoplastic, 1'-6" W, 2'-3" L, 1'-0" Gap.
- Downward Slope – 8.33% Max.
- Detectable Warning Plates

NOTE:

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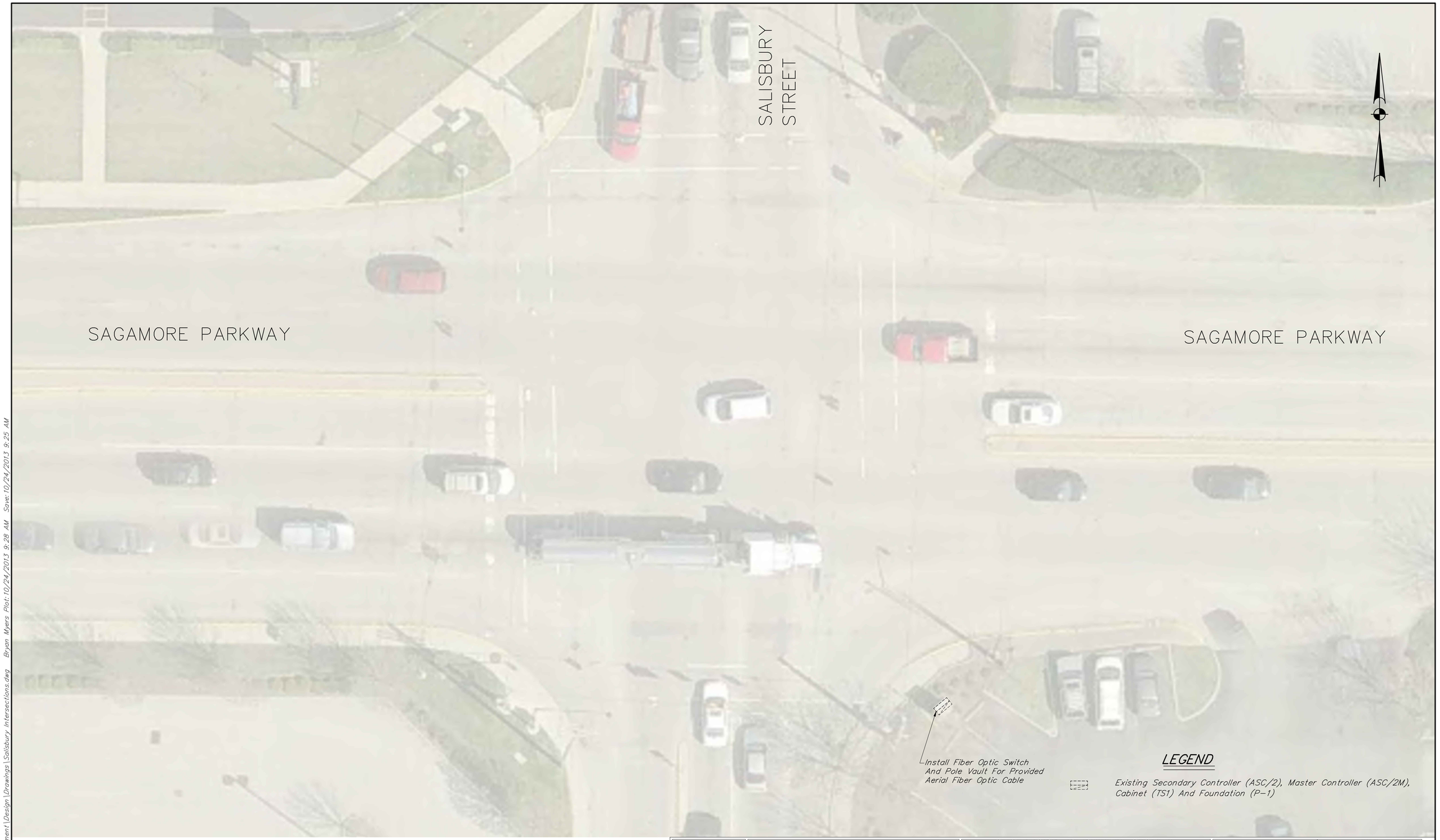

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SURVEY BOOK	SHEET
	06 OF 11
CONTRACT	PROJECT

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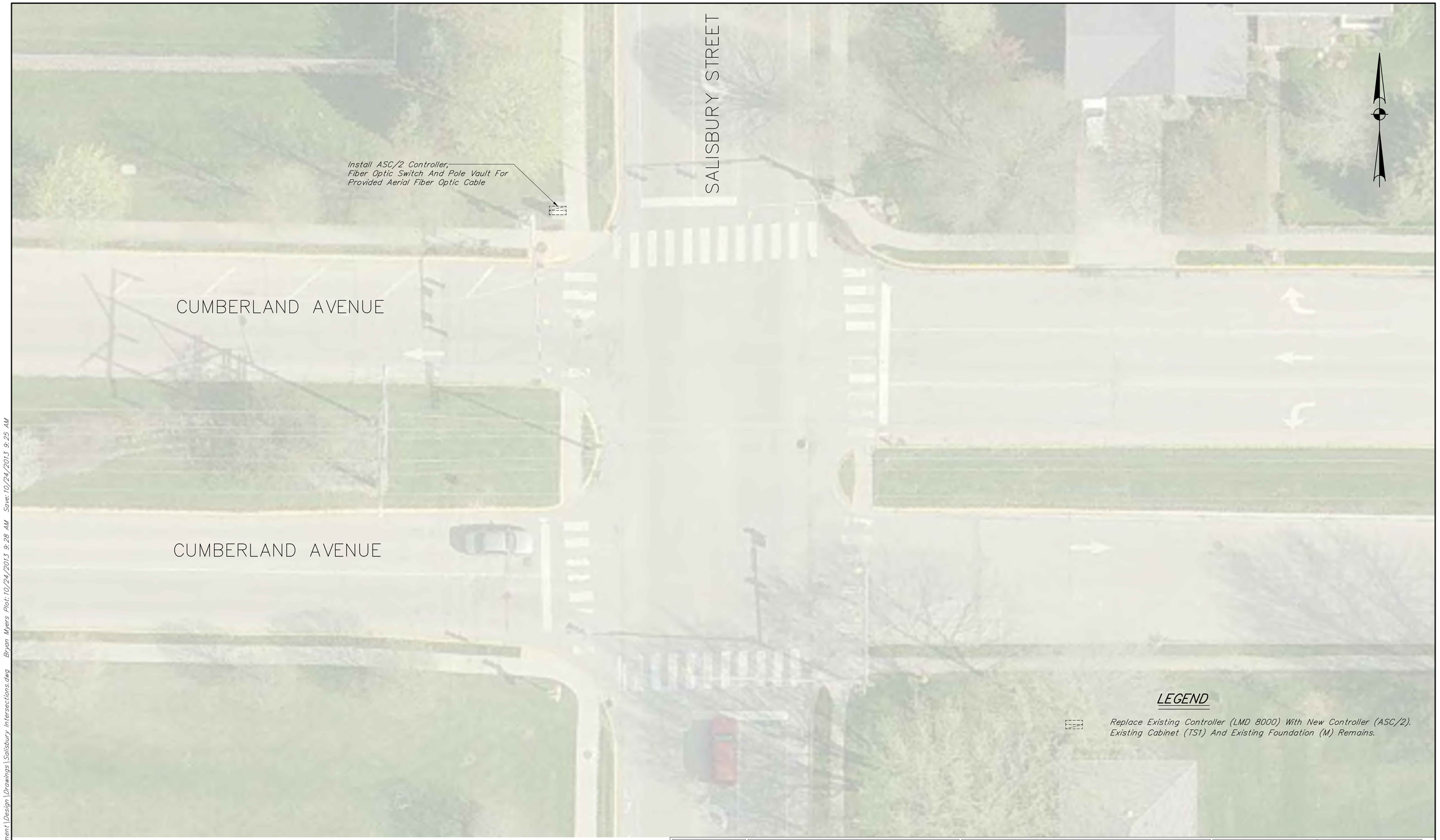

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SURVEY BOOK	SHEET 07 OF 11
CONTRACT	PROJECT

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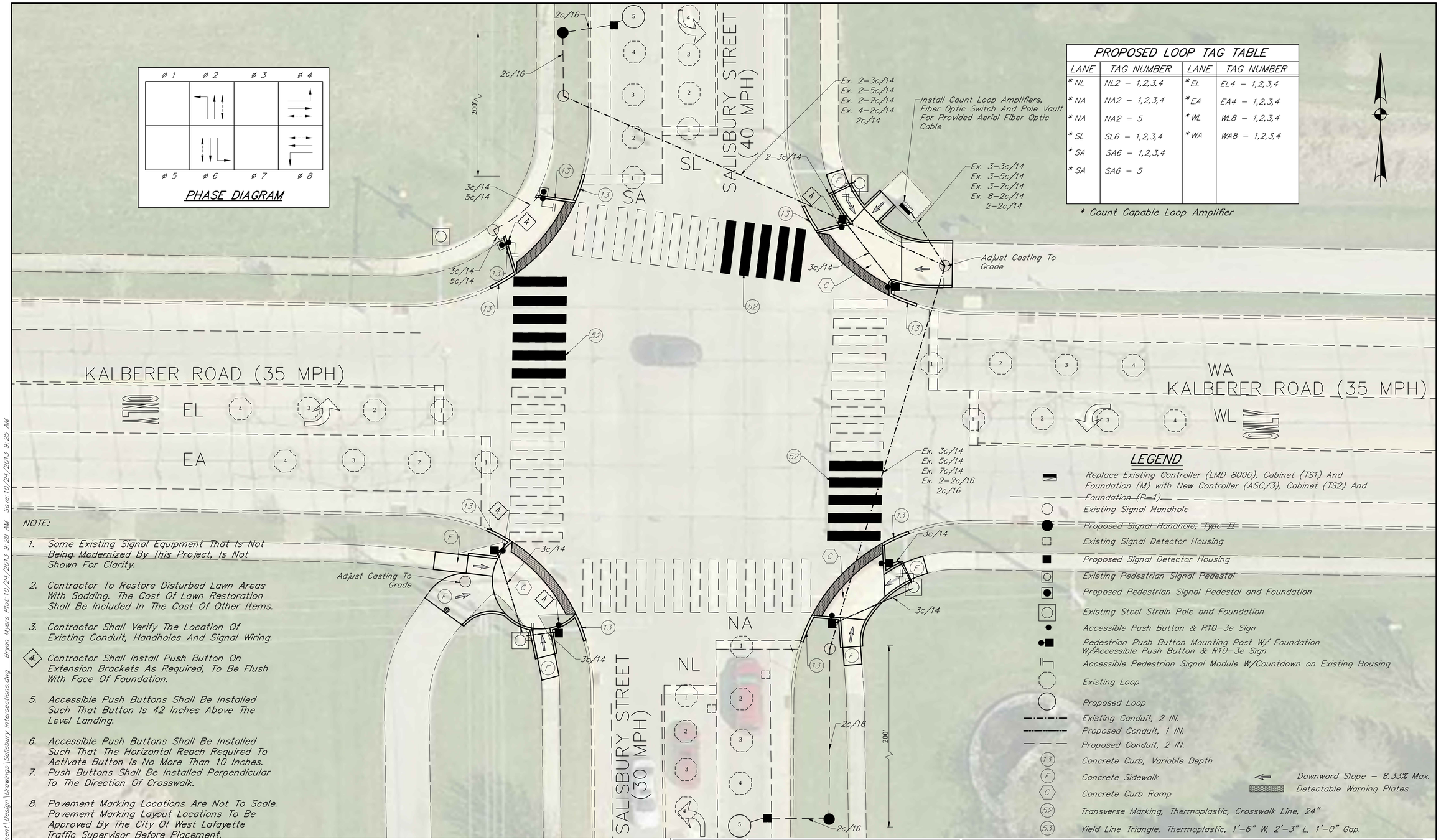

PROPOSED LOOP TAG TABLE			
LANE	TAG NUMBER	LANE	TAG NUMBER
* NL	NL2 - 1,2,3,4	* EL	EL4 - 1,2,3,4
* NA	NA2 - 1,2,3,4	* EA	EA4 - 1,2,3,4
* NA	NA2 - 5	* WL	WL8 - 1,2,3,4
* SL	SL6 - 1,2,3,4	* WA	WA8 - 1,2,3,4
* SA	SA6 - 1,2,3,4		
* SA	SA6 - 5		

* Count Capable Loop Amplifier

NOTE:

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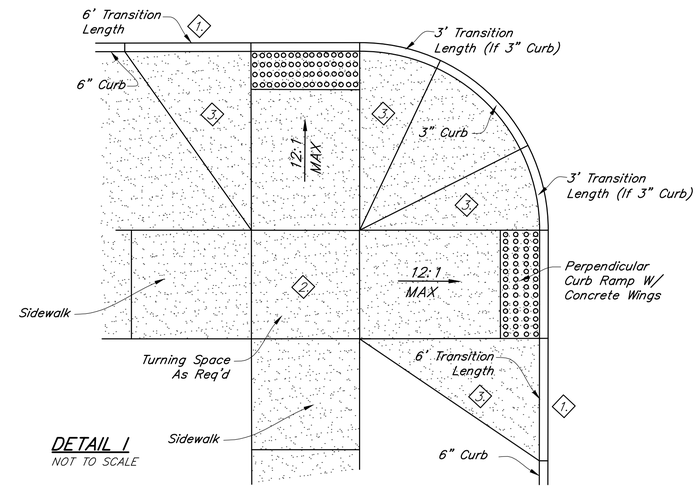
GENERAL NOTES:

Details Represent PROWAG Curb Ramp Concepts. Ramps Have Been Mixed And Matched To Depict Possible Combinations. Contractor Shall Not Be Limited To The Layouts Provided; Concepts Are Meant To Provide Guidance, Only.

1. These Dimensions Are Based On A 6 Inch Curb Height. They Shall Be Proportionally Adjusted For Other Curb Heights.
2. Landing Areas At The Top Of Curb Ramps Shall Have Maximum Cross Slope Of 50:1 In Any Direction. When Site Infeasibility Precludes A Landing Slope Of 50:1 In Any Direction, The Slope Perpendicular To The Curb Face Shall Not Exceed 50:1.
3. The Slope Of The Curb Ramp Wing(s) May Be Steepend To A Maximum Of 10:1 For A Maximum 6 Inch Rise.



DETAIL I
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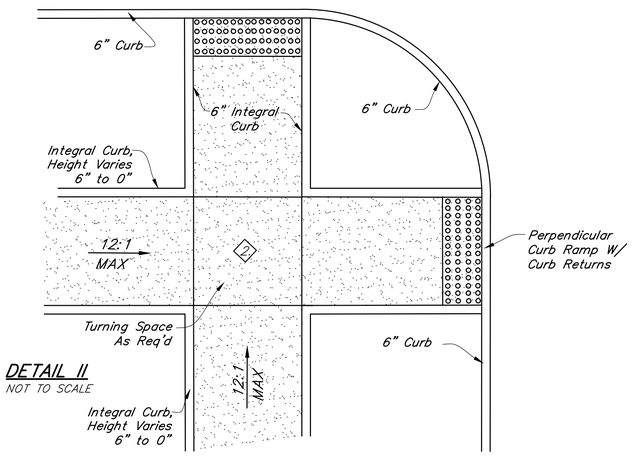

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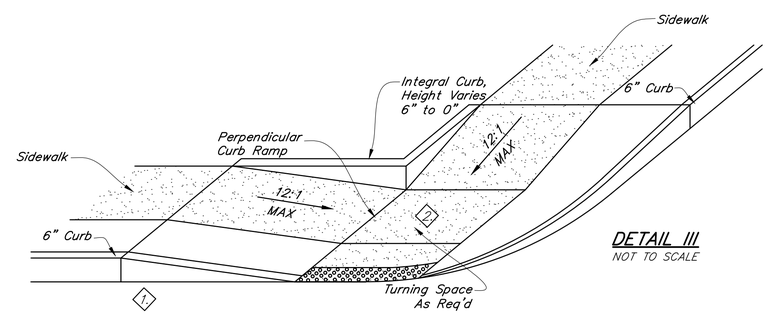

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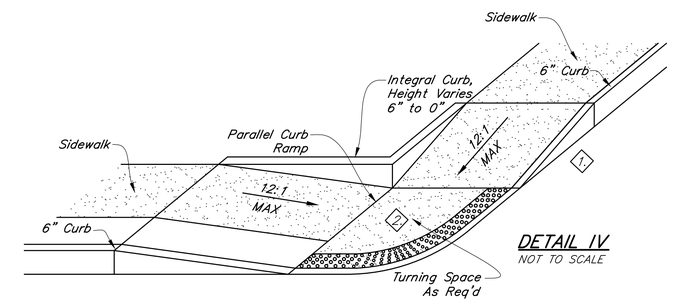

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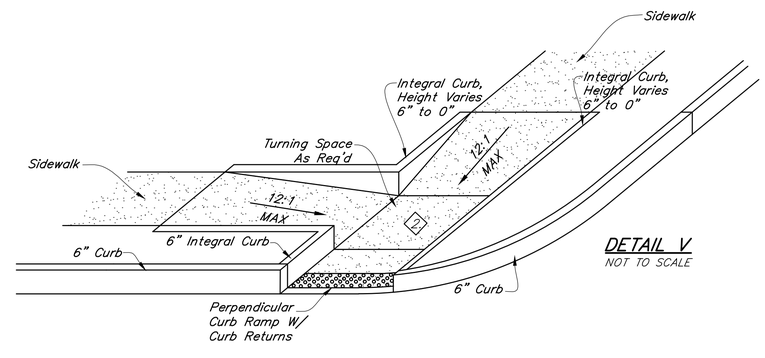

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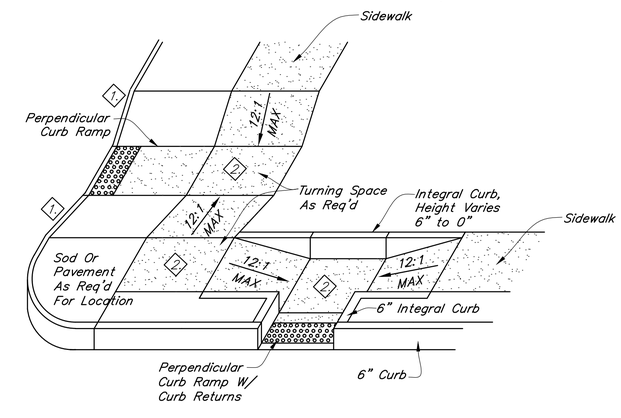

DETAIL VI
NOT TO SCALE

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		VERTICAL SCALE: N/A	DESIGNATION
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CHECKED: CWW / CHECKED: JCS	BF&S Butler Fairman & Seufert CIVIL ENGINEERS; Branch Locations: FORT WAYNE 260-459-1532, JEFFERSONVILLE 812-285-0590, LAFAYETTE 765-423-5602, MERRILLVILLE 219-769-2333, PLAINFIELD 317-839-3242	CONTRACT	PROJECT

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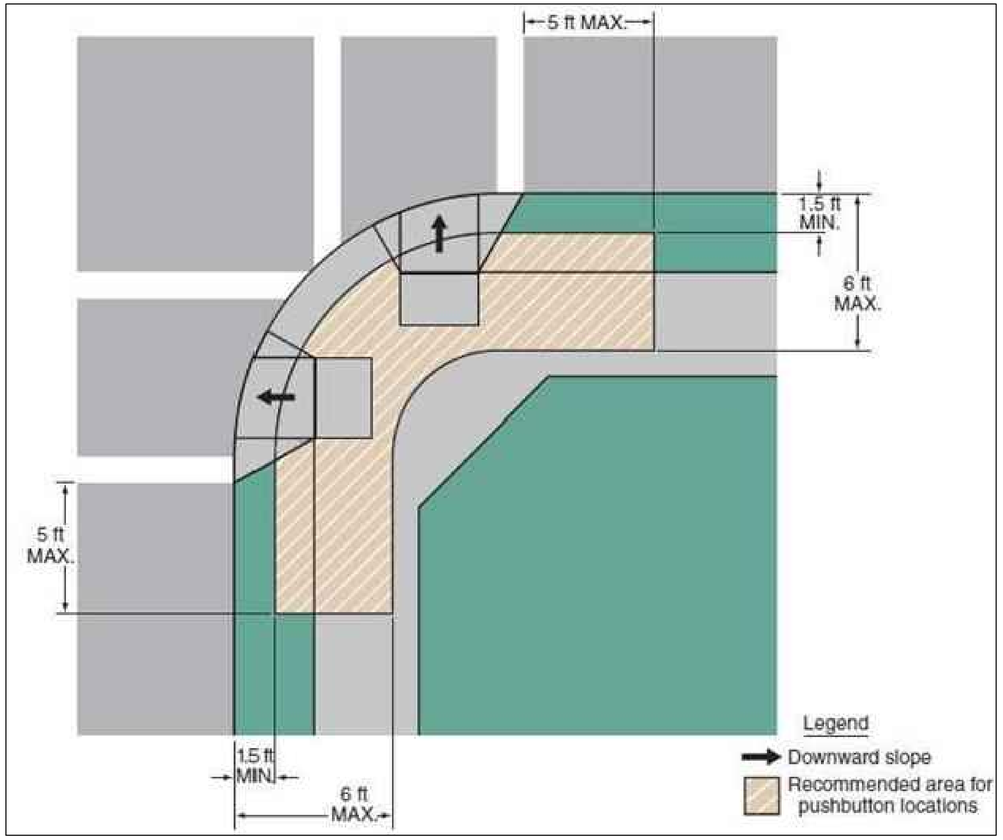
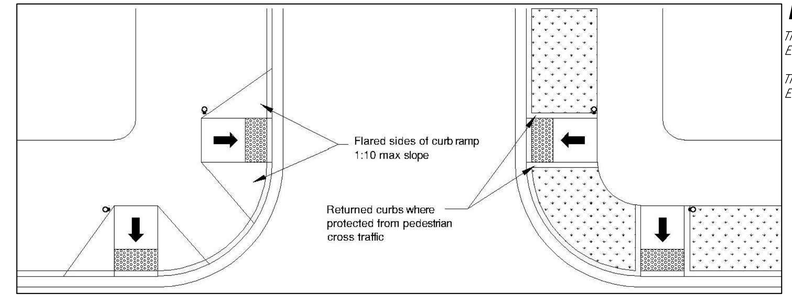


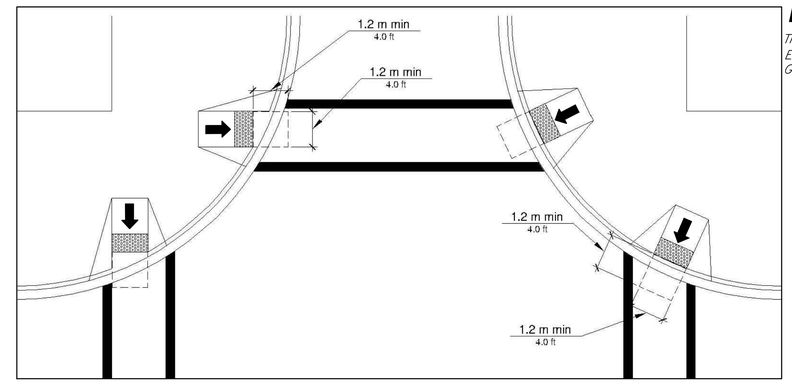
IMUTCD Figure 4E-3. Pushbutton Location Area



PROWAG Figure R304.2.3

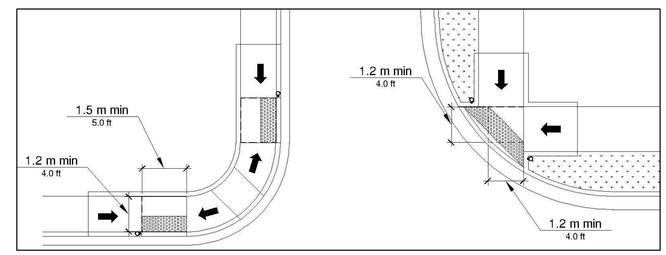
The Ramp Arrangements To The Left Of The Figure Are Examples Of Flared, Perpendicular Curb Ramps.

The Ramp Arrangements To The Right Of The Figure Are Examples Of Perpendicular, Curb Return Ramps.



PROWAG Figure R304.5.5

The Ramp Arrangements Shown In The Figure Provide Examples For "Clear Space" Requirements Beyond Bottom Grade Breaks, For Perpendicular Curb Ramps.



PROWAG Figure R304.3.1

The Ramp Arrangement To The Left Of The Figure Is An Example Of Where A Turning Space Is Constrained At The Back-Of-Sidewalk. This Is Also An Example Of A Parallel Curb Ramp.

The Ramp To The Right Of The Figure Is An Example Of A Blended Transition, Parallel Curb Ramp. The 4-Foot By 4-Foot Turning Space Is Indicated.

Pushbutton Location General Notes:

Per Section 4E.08 Of The Indiana Manual On Uniform Traffic Control Devices (IMUTCD), If Pedestrian Pushbuttons Are Used, They Should Be Capable Of Easy Activation And Conveniently Located Near Each End Of The Crosswalks. Pedestrian Pushbuttons Should Be Located To Meet All Of The Following Criteria (See IMUTCD Figure 4E-3 For Guidance):

A. Unobstructed And Adjacent To A Level, All-Weather Surface To Provide Wheelchair Access;
B. Where There Is An All-Weather Surface, Wheelchair Accessible Route From The Pushbutton To The Ramp;
C. Between The Edge Of The Crosswalk Line (Extended) Farthest From The Center Of The Intersection And The Side Of A Curb Ramp (If Present), But Not Greater Than 5 Feet From Said Crosswalk Line;
D. Between 1.5 And 6 Feet From The Edge Of The Curb, Shoulder, Or Pavement;
E. With The Face Of The Pushbutton Parallel To The Crosswalk To Be Used; And
F. At A Mounting Height Of Approximately 3.5 Feet, But No More Than 4 Feet, Above The Sidewalk.

Where There Are Physical Constraints That Make It Impractical To Place The Pedestrian Pushbutton Adjacent To A Level, All-Weather Surface, The Surface Should Be As Level As Feasible.

Where There Are Physical Constraints That Make It Impractical To Place The Pedestrian Pushbutton Between 1.5 And 6 Feet From The Edge Of The Curb, Shoulder, Or Pavement, It Should Not Be Farther Than 10 Feet From The Edge Of Curb, Shoulder, Or Pavement.

Where Two Pedestrian Pushbuttons Are Provided On The Same Corner Of A Signalized Location, The Pushbuttons Should Be Separated By A Distance Of At Least 10 Feet. Where There Are Physical Constraints On A Particular Corner That Make It Impractical To Provide The 10-Foot Separation Between The Two Pedestrian Pushbuttons, The Pushbuttons May Be Placed Closer Together Or On The Same Pole.

Signs Shall Be Mounted Adjacent To Or Integral With Pedestrian Pushbuttons; Supplemental Signs In A More Visible Location May Be Used To Call Attention To The Pedestrian Pushbutton. The Positioning Of Pedestrian Pushbuttons And The Legends On The Pedestrian Pushbuttons Signs Shall Clearly Indicate Which Crosswalk Signal Is Actuated By Each Pedestrian Pushbutton.

Curb Ramp General Notes:

Per Public Rights-Of-Way Accessibility Guidelines (PROWAG), Curb Ramps Shall Comply With The Following:

A. The Clear Width of the Curb Ramp Runs (Excluding Any Flared Sides), Blended Transitions, And Turning Spaces Shall Be 4-Foot Minimum.
B. A Turning Space 4-Foot By 4-Foot Minimum Shall Be Provided And Shall Be Permitted To Overlap Other Turning Spaces And Clear Spaces. Where The Turning Space Is Constrained At The Back-Of-Sidewalk, The Turning Space Shall Be 4-Foot Minimum By 5-Foot Minimum. The 5-Foot Dimension Shall Be Provided In The Direction Of The Ramp Run.
C. The Cross Slope Of Curb Ramps, Blended Transitions, And Turning Spaces Shall Be 2 Percent Maximum.
D. The Running Slope Of The Curb Ramp Shall Be 5 Percent Minimum And 8.3 Percent Maximum But Shall Not Require The Ramp Length To Exceed 15-Feet. The Running Slope Of Blended Transitions Shall Be 5 Percent Maximum. The Running Slope Of Turning Space Shall Be 2 Percent Maximum.
E. Where A Pedestrian Circulation Path Crosses The Curb Ramp, Flared Sides Shall Be Sloped 10 Percent Maximum, Measured Parallel To The Curb Line.
F. Grade Breaks At The Top And Bottom Of Ramp Runs Shall Be Perpendicular To The Direction Of The Ramp Run. Grade Breaks Shall Not Be Permitted On The Surface Of Ramp Runs And Turning Spaces. Surface Slopes That Meet At Grade Breaks Shall Be Flush.
G. The Counter Slope Of The Gutter Or Street At The Foot Of Curb Ramp Runs, Blended Transitions, And Turning Spaces Shall Be 5 Percent Maximum.
H. Beyond The Bottom Grade Break, A Clear Space 4-Foot Minimum By 4-Foot Minimum Shall Be Provided Within The Width Of The Pedestrian Street Crossing And Wholly Outside The Parallel Vehicle Travel Lane.

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VERTICAL SCALE	DESIGNATION
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CONTRACT	PROJECT

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NO.	LOCATION / ITEM	WIGGINS ST. QUANTITY	FOWLER AVE. QUANTITY	GRANT ST. QUANTITY	LINDBERG RD. QUANTITY	SAGAMORE PARKWAY QUANTITY	CUMBERLAND AVE. QUANTITY	KALBERER RD. QUANTITY	TOTALS	UNIT
1	CONSTRUCTION ENGINEERING								**1**	**LS**
2	MOBILIZATION AND DEMOBILIZATION								**1**	**LS**
3	CLEARING RIGHT-OF-WAY								**1**	**LS**
4	CURB RAMP, CONCRETE	-	-	67	76	-	-	90	233	SYS
5	SIDEWALK, CONCRETE, 4"	3	-	36	27	-	-	24	90	SYS
6	CURB, CONCRETE	-	-	81	77	-	-	74	232	LFT
7	CURB & GUTTER CONCRETE	-	-	99	-	-	-	-	99	LFT
8	ADJUST CASTING TO GRADE	-	-	1	-	-	-	2	3	EACH
9	MAINTAINING TRAFFIC	-	-	-	-	-	-	-	1	LS
10	SIGNAL PEDESTAL, 8FT	-	-	-	-	-	-	2	2	EACH
11	PEDESTAL PUSH BUTTON MOUNTING POST W/FOUNDATION	1	-	6	2	-	-	6	15	EACH
12	LED PEDESTRIAN SIGNAL MODULE W/ COUNTDDOWN	8	8	-	-	-	-	8	24	EACH
13	PEDESTRIAN PUSH BUTTON EXTENSION BRACKET	4	8	4	4	-	-	6	26	EACH
14	ACCESSIBLE PEDESTRIAN PUSH-BUTTON & SIGN TYPE R10-3e	8	8	6	8	-	-	8	38	EACH
15	SIGNAL CABLE, 3C/14GA	20	-	125	64	-	-	180	389	LFT
16	SIGNAL CABLE, 5C/14GA	-	-	50	-	-	-	50	100	LFT
17	SIGNAL PEDESTAL & FOUNDATION, REMOVE	-	-	1	-	-	-	-	1	EACH
18	SIGNAL CABLE, 7C/14GA (UNDISTRIBUTED)	-	-	-	-	-	-	-	50	LFT
19	SIGNAL PEDESTAL FOUNDATION, A	-	-	-	-	-	-	2	2	EACH
20	LOOP DETECTOR DELAY COUNTING AMPLIFIER, 2 CHANNEL	-	-	4	3	-	-	5	12	EACH
21	LOOP DETECTOR RACK	-	-	2	1	-	-	2	5	EACH
22	FIBER OPTIC DATA HARDWARE SWITCH	1	1	1	1	1	1	1	7	EACH
23	FIBER OPTIC COMMUNICATIONS POLE VAULT	1	1	1	1	1	1	1	7	EACH
24	CONTROLLER AND CABINET (TYPE P-1)	-	-	1	-	-	-	1	2	EACH
25	CONTROLLER CABINET FOUNDATION, P-1	-	-	1	-	-	-	1	2	EACH
26	SIGNAL CONTROLLER	-	-	-	-	-	1	-	1	EACH
27	SIGNAL CABLE, LOOP LEAD-IN 2C/16GA, SHIELDED	-	-	900	800	-	-	520	2220	LFT
28	SIGNAL DETECTOR HOUSING	-	-	3	3	-	-	2	8	EACH
29	SAW CUT FOR ROADWAY LOOP DETECTOR AND SEALANT	-	-	75	75	-	-	50	200	LFT
30	SIGNAL CABLE, ROADWAY LOOP COPPER 1C/14GA	-	-	250	250	-	-	200	700	LFT
31	CONDUIT, 2"	-	-	720	535	-	-	420	1675	LFT
32	CONDUIT, 1"	10	-	50	-	-	-	85	145	LFT
33	HANDHOLE, SIGNAL,TYPE II	-	-	6	3	-	-	2	11	EACH
34	LINE, REMOVE	-	-	150	30	-	-	-	180	LFT
35	TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, 24"	-	-	16	-	-	-	-	16	LFT
36	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, 24"	-	-	-	-	-	-	176	176	LFT
37	YIELD LINE TRIANGLE, THERMOPLASTIC 1'-6" W., 2'-3" L., 1'-0" GAP	-	-	-	7	-	-	-	7	EACH
38	HMA FOR PATCHING (UNDISTRIBUTED)	-	-	-	-	-	-	-	20	TON
39	MILLING, ASPHALT, 1.5 IN. (UNDISTRIBUTED)	-	-	-	-	-	-	-	230	SYS
40	STRUCTURES AND OBSTRUCTIONS, REMOVE	-	-	-	-	-	-	-	1	LS

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: CWW CHECKED: JCS

SUMMARY OF QUANTITIES
SALISBURY ST. SAFETY IMPROVEMENTS
WEST LAFAYETTE PHASE 3 INDIANA

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FORT WAYNE 260-459-1532
JEFFERSONVILLE 812-285-0590
LAFAYETTE 765-423-5602
MERRILLVILLE 219-769-2333
PLAINFIELD 317-839-3242

HORIZONTAL SCALE	FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	
SURVEY BOOK	SHEET
	11 OF 11
CONTRACT	PROJECT

BFS NO. 5552

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