CITY OF
WEST LAFAYETTE

ROAD PLANS

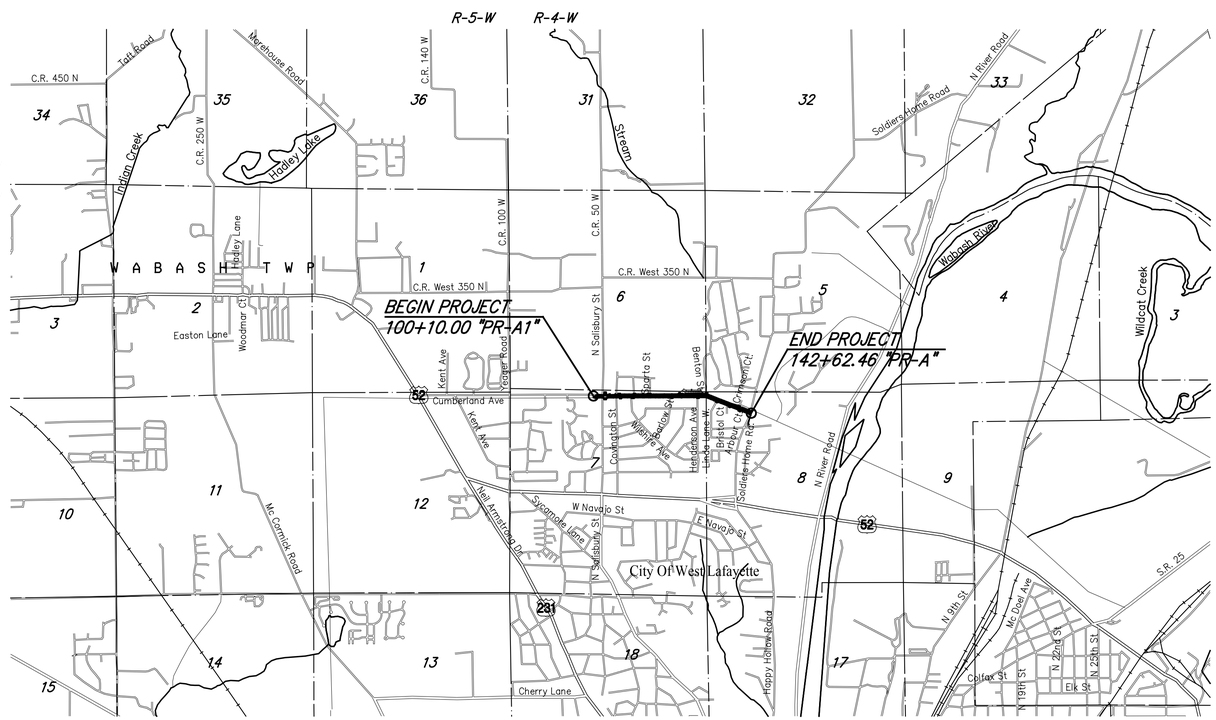
CUMBERLAND AVENUE RECONSTRUCTION - PHASE III

TRAFFIC DATA	CUMBERLAND AVENUE	
A.A.D.T.		V.P.D.
A.A.D.T.		V.P.D.
D.H.V.		V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		% D.H.V.
DESIGN DATA		
DESIGN SPEED	30	M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION	
FUNCTIONAL CLASSIFICATION	LOCAL	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

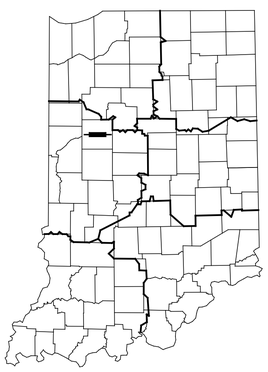
TRAFFIC DATA	SALISBURY STREET	
A.A.D.T.		V.P.D.
A.A.D.T.		V.P.D.
D.H.V.		V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		% D.H.V.
DESIGN DATA		
DESIGN SPEED	30	M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION	
FUNCTIONAL CLASSIFICATION	LOCAL	
RURAL/URBAN	URBAN (SUBURBAN)	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

PROJECT DESCRIPTION: *Cumberland Avenue reconstruction phase III beginning at a point approximately 315 feet west of the intersection of Salisbury Street and Cumberland Avenue, and extending in an easterly direction along Cumberland Avenue to the Soldiers Home Road intersection. Sections 6, 7, & 8, T-23-N, R-4-W, all in Tippecanoe County, Indiana.*

NOT FOR CONSTRUCTION



TIPPECANOE COUNTY



PROJECT LOCATION SHOWN BY

LATITUDE: 40° 27'38" N LONGITUDE: 86° 54'23" W

BRIDGE LENGTH :	0.000	Mile
ROADWAY LENGTH :	0.805	Mile
TOTAL LENGTH :	0.805	Mile
MAX. GRADE :	+1.74	%

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2014 AND STANDARD DRAWINGS DATED 2013 TO BE USED WITH THESE PLANS

AMERICAN STRUCTUREPOINT INC.
1241 CUMBERLAND AVENUE, SUITE D
WEST LAFAYETTE, IN 47906
TEL 765.497.2888 FAX 317.543.0270
www.structurepoint.com

PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580
PHONE NUMBER

CERTIFIED BY:
DATE

HORIZONTAL SCALE	
NONE	
VERTICAL SCALE	
N/A	
	SHEETS
	1 of 181
	PROJECT NO.

UTILITIES

Water:
Indiana -American Water Company
555 East County Line Road
Suite 201
Greenwood, In 46143
Jacquelyne Sanders
(317) 807-2462

Electric Transmission
Duke Energy
1000 East Main Street
Plainfield, In 46168
Jeff Fields
(317) 838-1492

Gas:
Vectren Energy
1250 South Creasy Lane
Lafayette, In 47905
Nick Brady
(765) 449-5610

Telephone:
Frontier Communications
3216 Imperial Parkway
Lafayette, In 47909
Ted Foster
(765) 423-3531

Sanitary/Storm Sewer:
City Of West Lafayette
609 West Navajo
West Lafayette, In 47906
David Buck, P.E.
(765) 775-5130

West Lafayette Wastewater
407 South River Road
West Lafayette, In 47906
David Henderson
(765) 775-5145

Electric Distribution
Duke Energy
1619 West Defenbaugh Street
Kokomo, In 46902
Brian Funk
(765) 454-6175

Cable Television:
Comcast
1002 East Center Road
Kokomo, In 46902
Jerry Shutters
(765) 455-5936
(765) 776-6278 Mobile

Fiber Optic:
Indiana Dateline
427 North 6th Street
Lafayette, In 47901
Mike Wehr
(765) 414-5690 Mobile
(765) 269-8510

Telecommunications:
Zayo
2640 East 266th Street
Arcadia, In 46030
Jim Kellam
(317) 758-5625

GENERAL NOTES

**	All disturbed areas shall be sodded except where specified in the Landscaping Details
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
	Existing asphalt pavement located outside the construction limits, between Sta. _____ and Sta. _____, shall be removed as directed.
	The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement, where each treatment applies.
	All limited access right-of-way (L.A. R/W) is to be fenced with chain link type fence (CLTF) or farm field type fence (FFTF) where specified in the plans.
	Contractor shall verify existing flowline elevations to set the appropriate sump depth.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX TO SHEETS

SHEET NO.	DRAWING INDEX
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3 - 6	TYPICAL CROSS SECTIONS
7 - 10	MISCELLANEOUS DETAILS
11 - 13	PARKING LOT DETAILS
14 - 15	PLAT NO. 1
16	REFERENCE POINTS
17 - 28	MAINTENANCE OF TRAFFIC DETAILS
29 - 31	REMOVAL DETAILS
32	PARKING LOT DEMOLITION PLAN
33 - 38	PLAN AND PROFILES
39	PARKING LOT STORM PLAN AND PROFILE
40 - 48	CONSTRUCTION DETAILS
49 - 51	GAS SLAB DETAILS
52	PARKING LOT SITE PLAN
53 - 56	SPOT ELEVATION DETAILS
57	PARKING LOT GRADING PLAN
58 - 59	STORM WATER POLLUTION PREVENTION PLAN
60 - 63	EROSION CONTROL DETAILS
64 - 66	PARKING LOT EROSION CONTROL DETAILS
67	SIGNAL DETAILS
68 - 71	PAVEMENT MARKING AND SIGN DETAILS
72 - 76	SHEET SIGN AND POST SUMMARY
77	MISCELLANEOUS TABLES
78 - 81	LIGHTING DETAILS
82	PARKING LOT UTILITY PLAN
83 - 89	LANDSCAPING PLAN
90 - 92	SUMMARY OF QUANTITIES AND APPROACH TABLE
93 - 98	UNDERDRAIN TABLE
99 - 104	STRUCTURE DATA TABLE
105 - 109	CROSS SECTIONS LINE "PR-A1"
110 - 178	CROSS SECTIONS LINE "PR-A"
179 - 181	CROSS SECTIONS LINE "S-1-A"
	CITY OF WEST LAFAYETTE TYPICAL CONSTRUCTION GUIDELINES AND DETAILS

REVISIONS

SHEET NO.	DATE	REVISED

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

INDEX AND GENERAL NOTES

HORIZONTAL SCALE: NONE
VERTICAL SCALE: N/A

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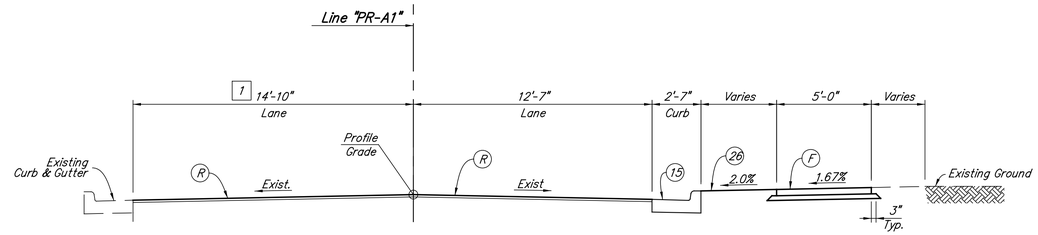
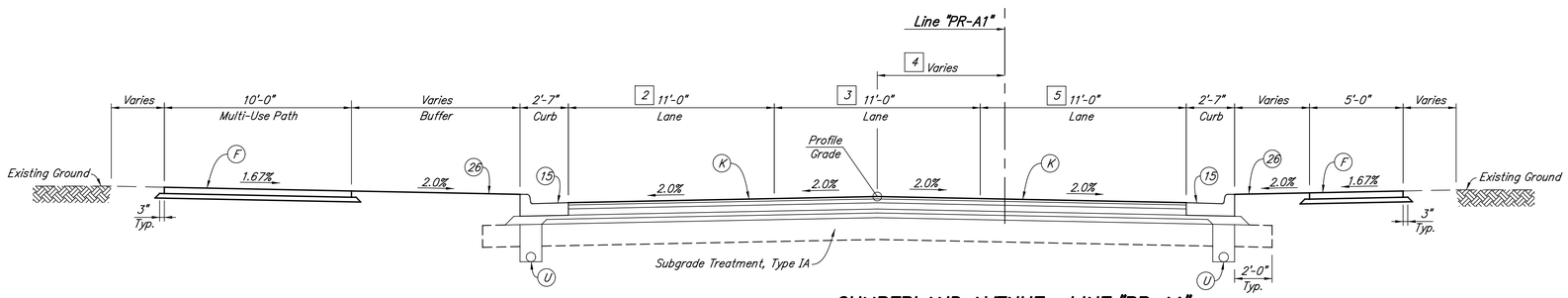
PROJECT NO.



1 Varies from 14'-6" at 100+10.00 to 14'-10" at 100+49.00

CUMBERLAND AVENUE - LINE "PR-A1"

100+10.00 to 100+49.00



CUMBERLAND AVENUE - LINE "PR-A1"

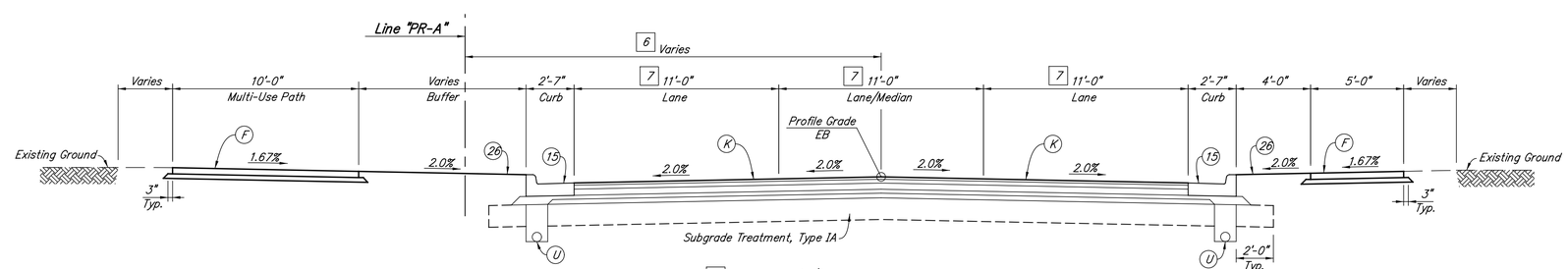
100+49.00 to 103+22.64

2 Varies from 14'-9" at 100+49.00 to 11'-0" at 101+65.00

3 Varies from 0'-0" at 100+50.00 to 11'-0" at 101+65.00

4 Varies from 0'-0" at 100+50.00 to 3'-8½" at 101+65.00
Varies from 3'-8½" at 101+65.00 to 5'-3" at 103+22.64

5 Varies from 12'-7" at 100+49.00 to 11'-0" at 101+65.00



CUMBERLAND AVENUE - LINE "PR-A"

103+22.64 to 105+79.58

6 Constant 19'-8½ from 103+22.64 to 105+00.00
Varies from 19'-8½ at 105+00.00 to 14'-9½" at 105+79.58

7 Varies from 105+00.00 to 105+79.58, See Construction Details

NOTES:
For Additional Details, See Miscellaneous Detail Sheets

LEGEND

- 13 Box Curb with 6" Face
- 15 Combined Concrete Curb & Gutter, Type III
- 26 Sodding
- F Sidewalk, Concrete, 4" On 3" Compacted Aggregate, No. 5.3, Base
- F1 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 6" Compacted Aggregate No. 5.3, Base on Compacted Subgrade
- K Full Depth HMA Pavement 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 440 #/SYS HMA Base, Type B on 250 #/SYS QC/QA-HMA Intermediate,OG, 25.0 mm on 330 #/SYS HMA Base, Type B
- R 165 #/Sys. HMA, Surface, Type B on Milling, Asphalt, 1.5"
- U Underdrain

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

TYPICAL CROSS SECTIONS
LINE "PR-A1" & "PR-A"

HORIZONTAL SCALE	
1/4" = 1'-0"	
VERTICAL SCALE	
N/A	

SHEETS	
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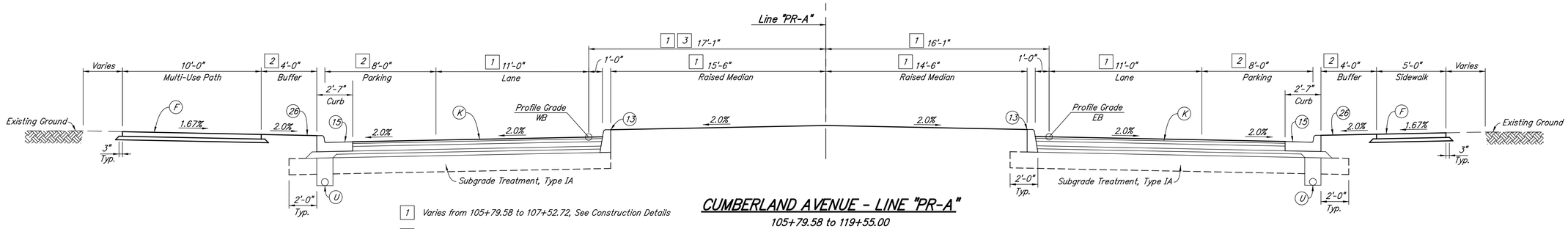
PROJECT NO.	



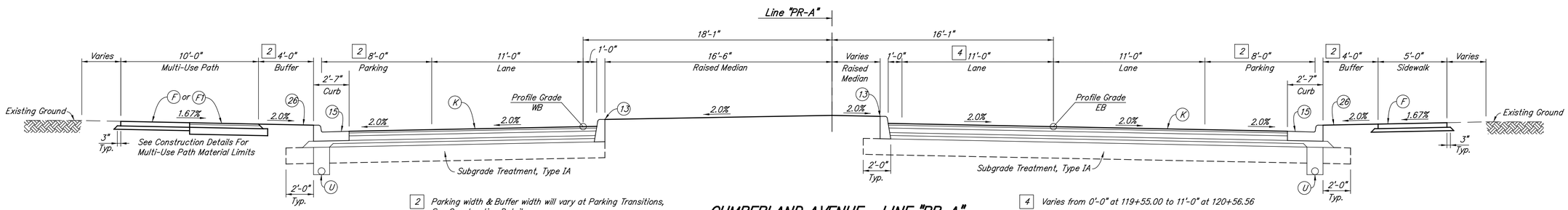
1 Varies from 105+79.58 to 107+52.72, See Construction Details

2 Parking width & Buffer width will vary at Parking Transitions, See Construction Details

3 Varies from 17'-1" at 110+00.00 to 18'-1" at 110+50.00 Constant 18'-1" from 110+50.00 to 119+55.00

CUMBERLAND AVENUE - LINE "PR-A"

105+79.58 to 119+55.00

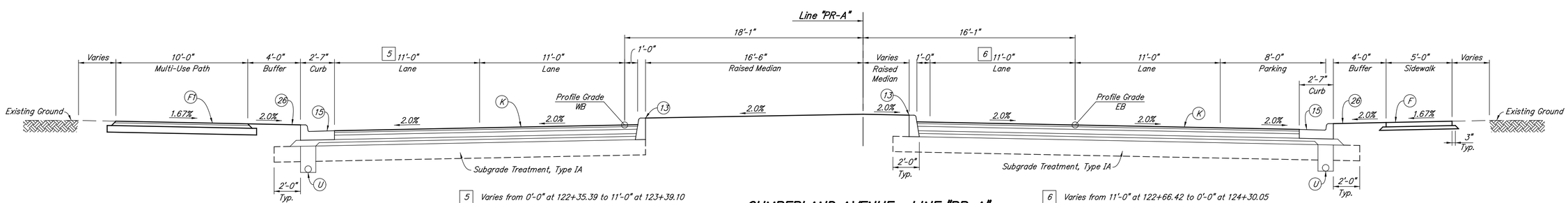


2 Parking width & Buffer width will vary at Parking Transitions, See Construction Details

4 Varies from 0'-0" at 119+55.00 to 11'-0" at 120+56.56

CUMBERLAND AVENUE - LINE "PR-A"

119+55.00 to 122+35.39



5 Varies from 0'-0" at 122+35.39 to 11'-0" at 123+39.10

6 Varies from 11'-0" at 122+66.42 to 0'-0" at 124+30.05

CUMBERLAND AVENUE - LINE "PR-A"

122+35.39 to 124+30.05

NOTES:

For Additional Details, See Miscellaneous Details

LEGEND

- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (26) Sodding
- (F) Sidewalk, Concrete, 4" On 3" Compacted Aggregate, No. 53, Base
- (F1) 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Compacted Subgrade
- (K) Full Depth HMA Pavement 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 440 #/SYS HMA Base, Type B on 250 #/SYS QC/QA-HMA Intermediate,OG, 25.0 mm on 330 #/SYS HMA Base, Type B
- (R) 165 #/Sys. HMA, Surface, Type B on Milling, Asphalt, 1.5"
- (U) Underdrain

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

TYPICAL CROSS SECTIONS LINE "PR-A"

HORIZONTAL SCALE	1/4" = 1'-0"
VERTICAL SCALE	N/A
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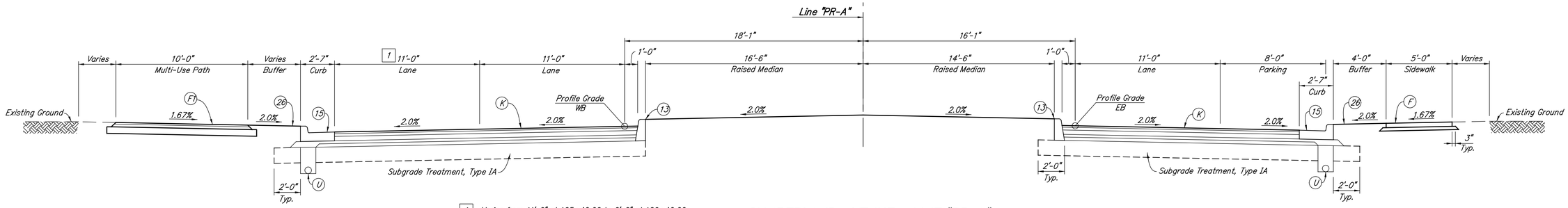
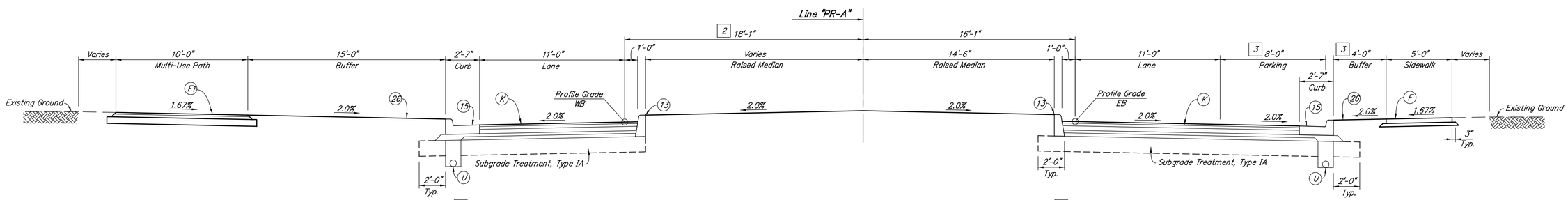


1 Varies from 11'-0" at 125+40.00 to 0'-0" at 126+40.00

CUMBERLAND AVENUE - LINE "PR-A"

124+30.05 to 126+40.00

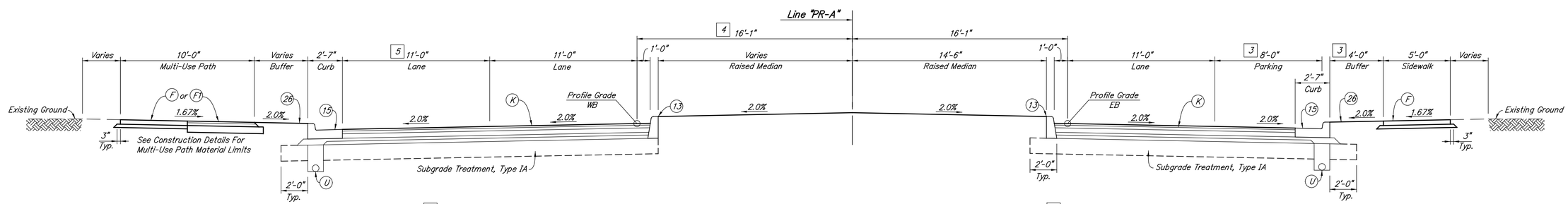


2 Varies from 18'-1" at 129+29.09 to 16'-1" at 130+52.81

CUMBERLAND AVENUE - LINE "PR-A"

126+40.00 to 129+98.88

3 Parking width & Buffer width will vary at Parking Transitions, See Construction Details



4 Varies from 18'-1" at 129+29.09 to 16'-1" at 130+52.81

5 Varies from 11'-0" at 131+70.00 to 0'-0" at 132+30.00

CUMBERLAND AVENUE - LINE "PR-A"

129+98.88 to 132+30.00

3 Parking width & Buffer width will vary at Parking Transitions, See Construction Details

NOTES:

For Additional Details, See Miscellaneous Detail Sheets

LEGEND

- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (26) Sodding
- (F) Sidewalk, Concrete, 4" On 3" Compacted Aggregate, No. 53, Base
- (F1) 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Compacted Subgrade
- (K) Full Depth HMA Pavement 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 440 #/SYS HMA Base, Type B on 250 #/SYS QC/QA-HMA Intermediate,OG, 25.0 mm on 330 #/SYS HMA Base, Type B
- (R) 165 #/Sys. HMA, Surface, Type B on Milling, Asphalt, 1.5"
- (U) Underdrain

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

TYPICAL CROSS SECTIONS LINE "PR-A"

HORIZONTAL SCALE	
1/4" = 1'-0"	
VERTICAL SCALE	
N/A	
	SHEETS
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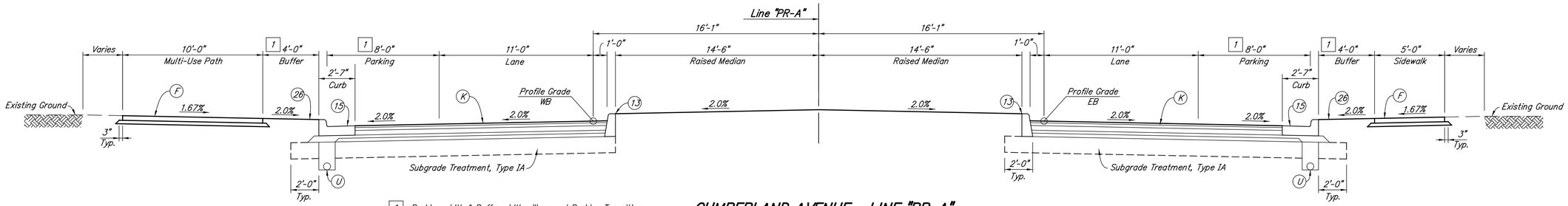
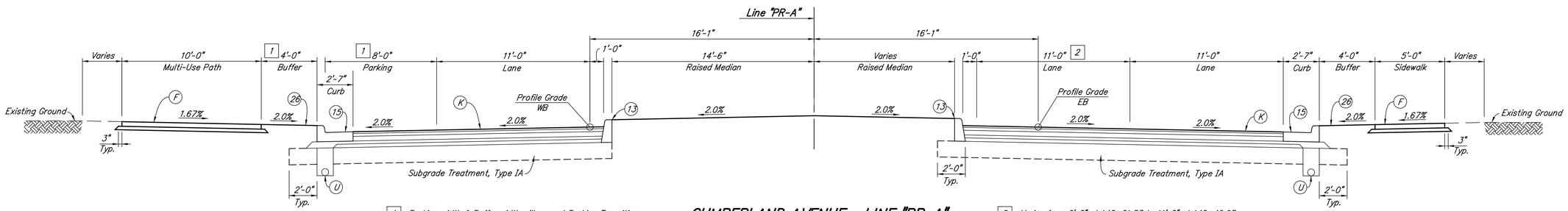
	PROJECT NO.



1 Parking width & Buffer width will vary at Parking Transitions, See Construction Details

CUMBERLAND AVENUE - LINE "PR-A"

132+30.00 to 140+01.53

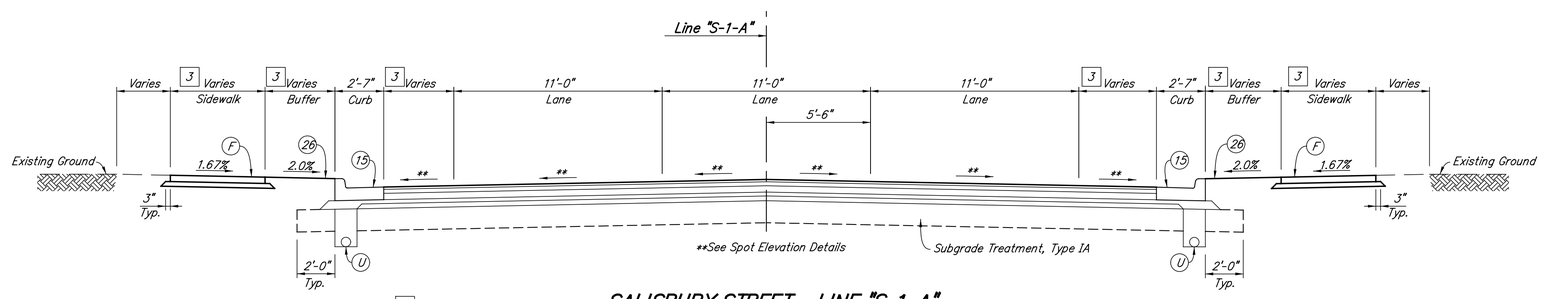


1 Parking width & Buffer width will vary at Parking Transitions, See Construction Details

CUMBERLAND AVENUE - LINE "PR-A"

140+01.53 to 142+62.46

2 Varies from 0'-0" at 140+01.53 to 11'-0" at 140+49.95



3 See Construction Details

SALISBURY STREET - LINE "S-1-A"

6+00.00 to 6+60.20
6+93.20 to 8+00.00

NOTES:
For Additional Details, See Miscellaneous Details

LEGEND

- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (26) Sodding
- (F) Sidewalk, Concrete, 4" On 3" Compacted Aggregate, No. 53, Base
- (F1) 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Compacted Subgrade
- (K) Full Depth HMA Pavement 165 #/SYS HMA Surface, Type B on 275 #/SYS HMA Intermediate, Type B on 440 #/SYS HMA Base, Type B on 250 #/SYS QC/QA-HMA Intermediate,OG, 25.0 mm on 330 #/SYS HMA Base, Type B
- (R) 165 #/Sys. HMA, Surface, Type B on Milling, Asphalt, 1.5"
- (U) Underdrain

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

TYPICAL CROSS SECTIONS
LINE "PR-A" & "S-1-A"

HORIZONTAL SCALE	
1/4" = 1'-0"	
VERTICAL SCALE	
N/A	

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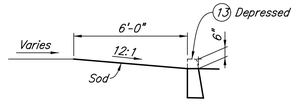
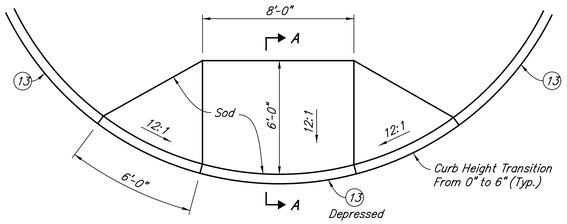
PROJECT NO.	



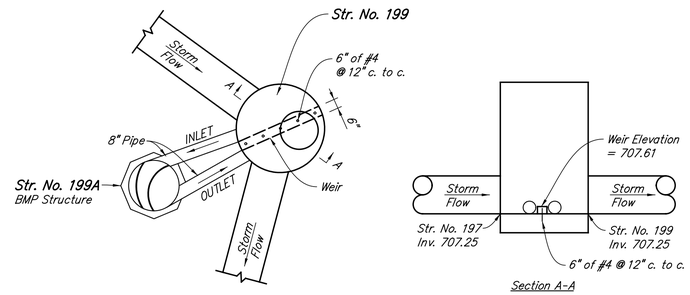
SECTION A-A

NOTE:
For Mower Ramp Locations, See Construction Details.



MOWER RAMP DETAILS

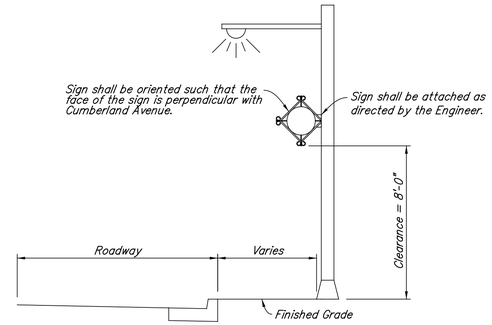
Scale: 1/4" = 1'-0"



Note: Shop Drawings for BMP structure shall be submitted to the Engineer for approval.

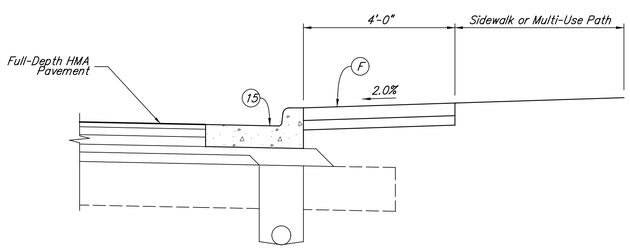
STR. 199A, BMP STRUCTURE DETAILS

Scale: 1/4" = 1'-0"



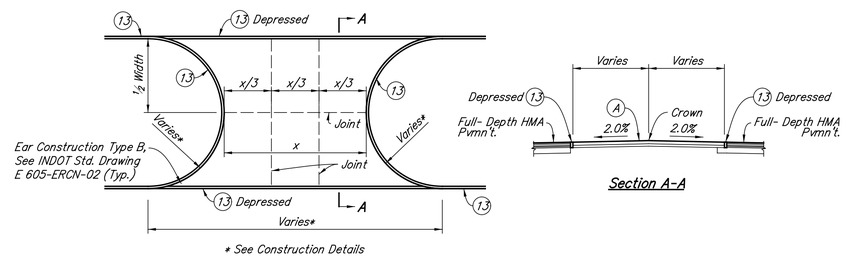
SIGN, SHEET ASSEMBLY, RELOCATE TO LIGHT POLE DETAIL

Scale: 1/4" = 1'-0"



BUS STOP DETAIL

Scale: 1/2" = 1'-0"

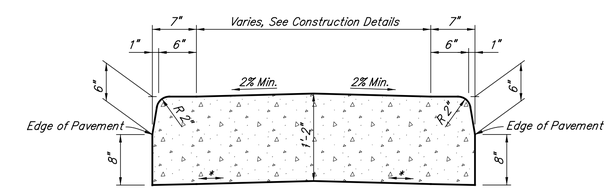


* See Construction Details

Note: Depressed Box Curb Shall Be Flush With Pavement
All Joints Shall Be Type A or B

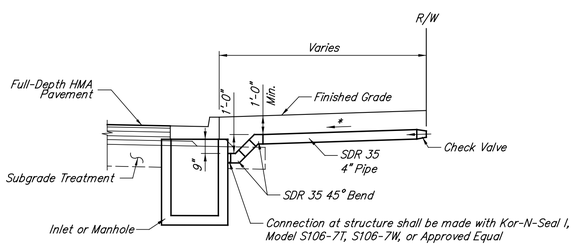
MEDIAN CROSS OVER DETAIL

Scale: 1/16" = 1'-0"



CENTER CURB, D, CONCRETE, MODIFIED DETAIL

Scale: 1" = 1'-0"
*Match Roadway Cross Slope

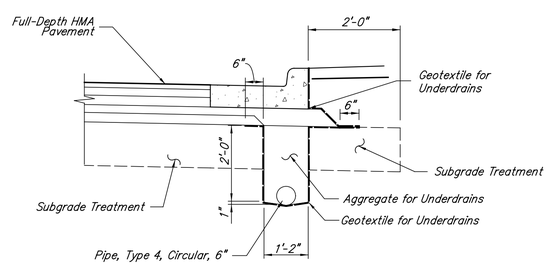


*Slope Shall Match Finished Grade, See Typical Sections

SUMP PUMP CONNECTION DETAIL

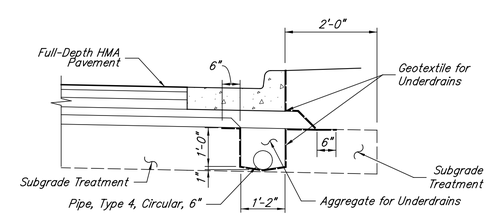
Not To Scale

Notes: All check valves shall be tested for proper flow prior to backfilling
See "Standard Bedding Detail" in City of West Lafayette Details for backfill requirements



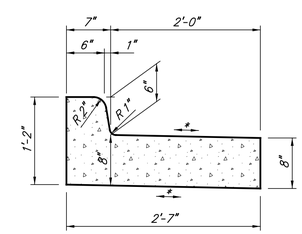
UNDERDRAIN DETAIL

Scale: 1/2" = 1'-0"



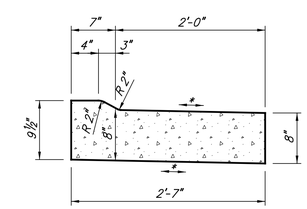
MODIFIED UNDERDRAIN DETAIL

Scale: 1/2" = 1'-0"



COMBINED CONCRETE CURB AND GUTTER, TYPE III DETAIL

Scale: 1" = 1'-0"
*Match Roadway Cross Slope



COMBINED CONCRETE CURB AND GUTTER, TYPE III DETAIL (DEPRESSED)

Scale: 1" = 1'-0"
*Match Roadway Cross Slope

LEGEND

- 13 Box Curb with 6" Face
- A PCCP, 8" on 6" Comp. Agg. No. 53, Base
- F1 Multi-Use Path (See Typical Section)
- 15 Combined Concrete Curb & Gutter, Type III
- F Sidewalk, Concrete, 4" (See Typical Section)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

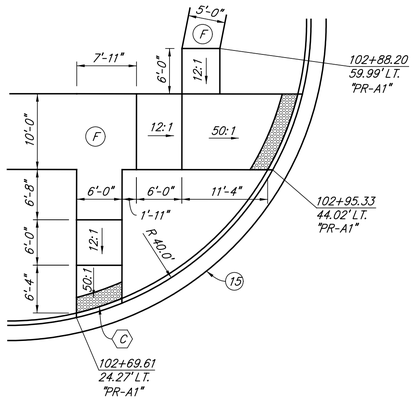
DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

MISCELLANEOUS DETAILS

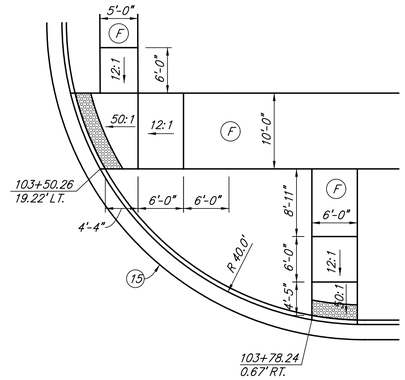
HORIZONTAL SCALE	
AS NOTED	
VERTICAL SCALE	
N/A	

SHEETS 7 of 181
PROJECT NO.



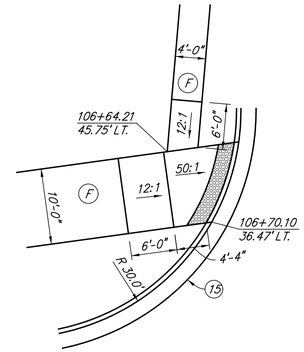
CURB RAMPS, CONCRETE

NW Corner at Cumberland Ave. & Salisbury St.



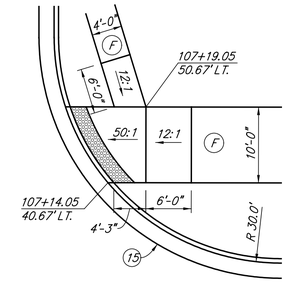
CURB RAMPS, CONCRETE

NE Corner at Cumberland Ave. & Salisbury St.



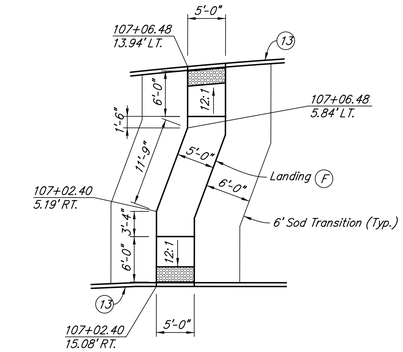
CURB RAMP, CONCRETE

NW Corner at Cumberland Ave. & Covington St.



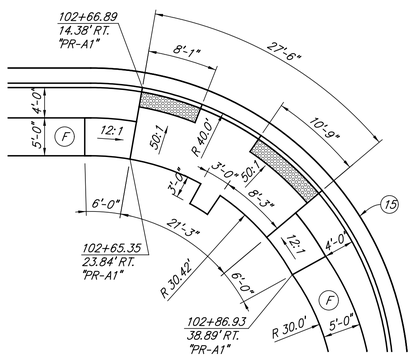
CURB RAMP, CONCRETE

NE Corner at Cumberland Ave. & Covington St.



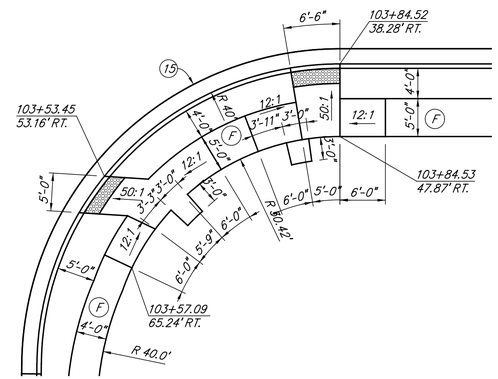
CURB RAMP, CONCRETE

In Median at Cumberland Ave. & Covington St.



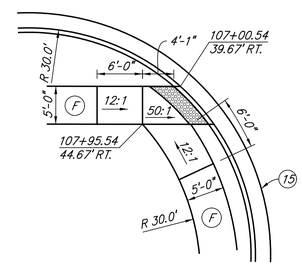
CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Salisbury St.



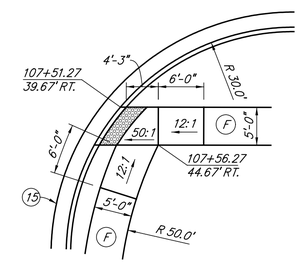
CURB RAMPS, CONCRETE

SE Corner at Cumberland Ave. & Salisbury St.



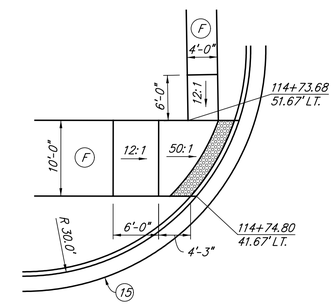
CURB RAMP, CONCRETE,

SW Corner at Cumberland Ave. & Covington St.



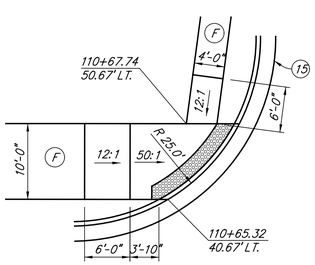
CURB RAMP, CONCRETE

SE Corner at Cumberland Ave. & Covington St.



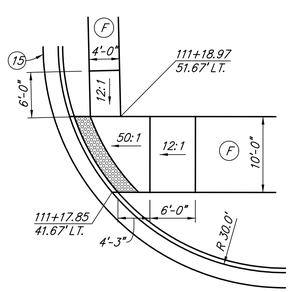
CURB RAMP, CONCRETE

NW Corner at Cumberland Ave. & Sparta St.



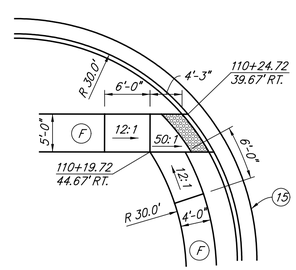
CURB RAMP, CONCRETE

NW Corner at Cumberland Ave. & Wilshire Ave.



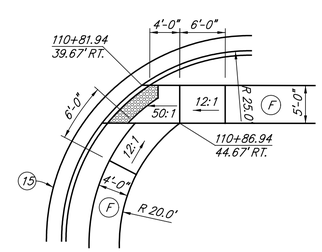
CURB RAMP, CONCRETE

NE Corner at Cumberland Ave. & Wilshire Ave.



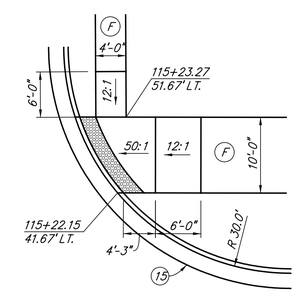
CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Wilshire Ave.



CURB RAMP, CONCRETE

SE Corner at Cumberland Ave. & Wilshire Ave.



CURB RAMP, CONCRETE

NE Corner at Cumberland Ave. & Sparta St.

NOTES:

Station & Offsets are From Line "PR-A", Except as Noted.
Cross Slope not to Exceed 50:1 and Longitudinal Slopes not to Exceed 12:1 for 15'.
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For Additional Details, see Construction Details.

LEGEND

- (13) Box Curb with 6" Face
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- (A) PCCP, 8" on 6" Comp. Agg. No. 53, Base
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- (F1) Multi-Use Path (See Typical Section)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

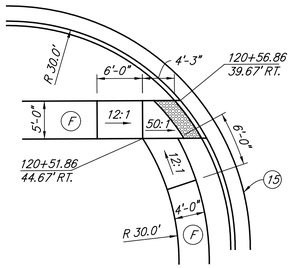
DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

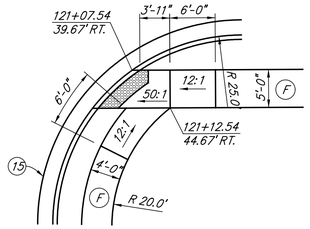
MISCELLANEOUS DETAILS

HORIZONTAL SCALE: AS NOTED
VERTICAL SCALE: N/A

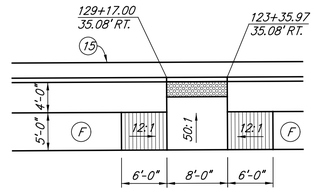
SHEETS 8 of 181
PROJECT NO.



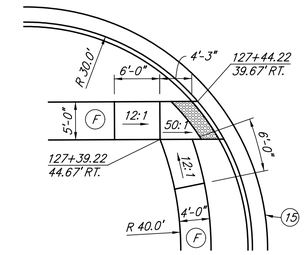
CURB RAMP, CONCRETE
SW Corner at Cumberland Ave. & Barlow St.



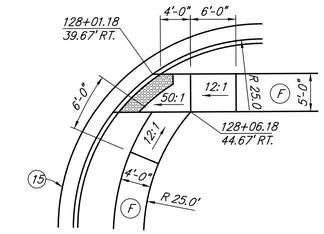
CURB RAMP, CONCRETE,
SE Corner at Cumberland Ave. & Barlow St.



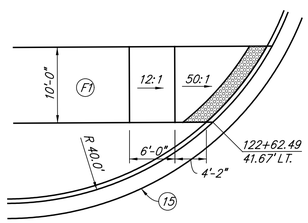
CURB RAMP, CONCRETE
South Side Cumberland Ave. at 123+35.97 & 129+17.00
(2 - Req'd.)



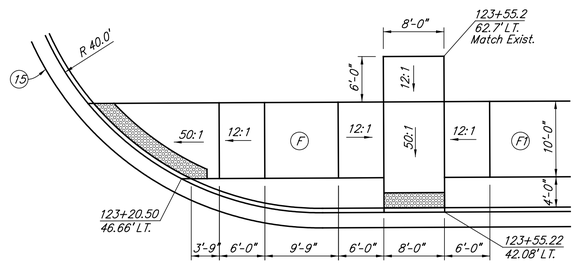
CURB RAMP, CONCRETE
SW Corner at Cumberland Ave. & Henderson Ave.



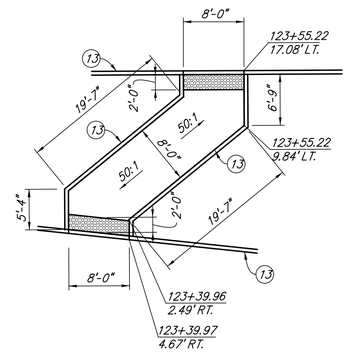
CURB RAMP, CONCRETE
SW Corner at Cumberland Ave. & Henderson Ave.



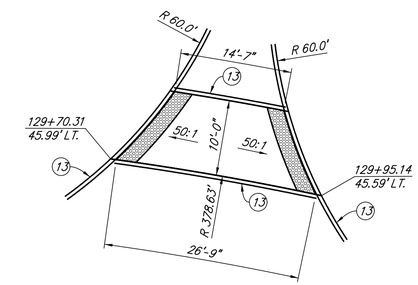
CURB RAMP, CONCRETE
NW Corner at Cumberland Ave. & School West Entrance



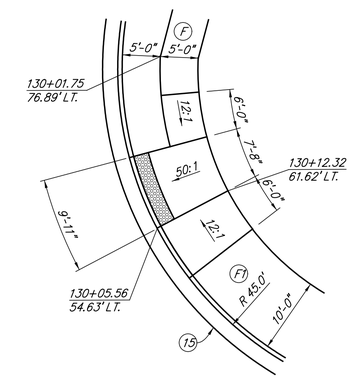
CURB RAMPS, CONCRETE
NE Corner at Cumberland Ave. & School West Entrance



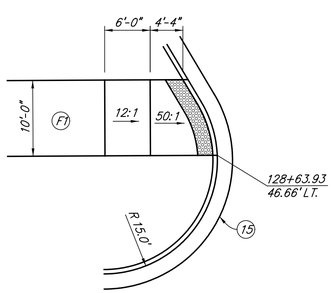
CURB RAMP, CONCRETE
In Median at Cumberland Ave. & School West Entrance



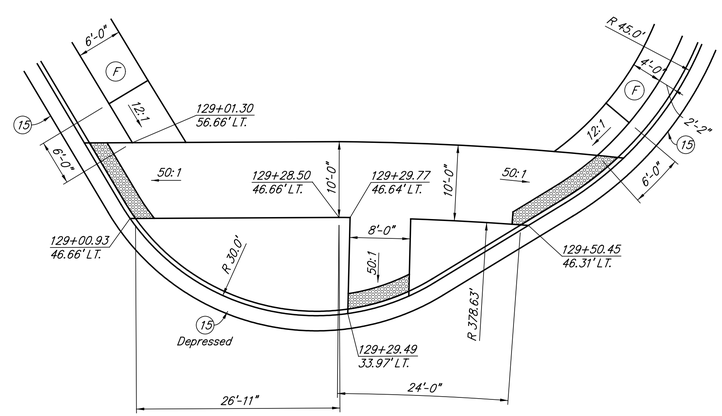
CURB RAMP, CONCRETE
In Median at Benton St.



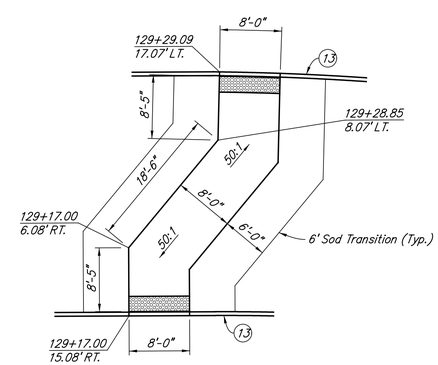
CURB RAMP, CONCRETE
NE Corner at Cumberland Ave. & Benton St.



CURB RAMP, CONCRETE
NW Corner at Cumberland Ave. & School East Entrance



CURB RAMP, CONCRETE
NE Corner at Cumberland Ave. & School East Entrance,
NW Corner at Cumberland Ave. & Benton St.



CURB RAMP, CONCRETE
In Median at Cumberland Ave. & School East Entrance

NOTES:

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For Additional Details, see Construction Details.

LEGEND

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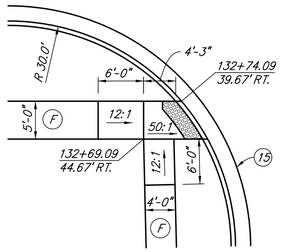
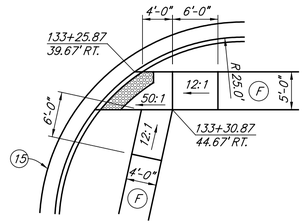
- (F1) Multi-Use Path (See Typical Section)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CITY OF WEST LAFAYETTE	HORIZONTAL SCALE: AS NOTED; VERTICAL SCALE: N/A
DESIGNED: NRM	DRAWN: RJC	MISCELLANEOUS DETAILS	SHEETS: 9 of 181
CHECKED: MJM	CHECKED: MJM		PROJECT NO.



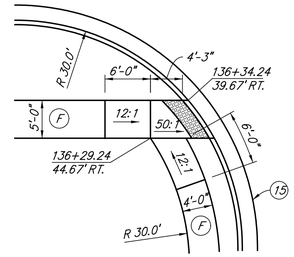
CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Linda Lane West



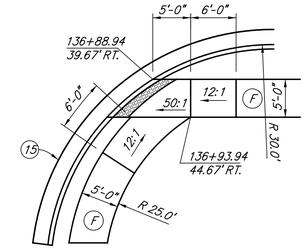
CURB RAMP, CONCRETE

SE Corner at Cumberland Ave. & Linda Lane West



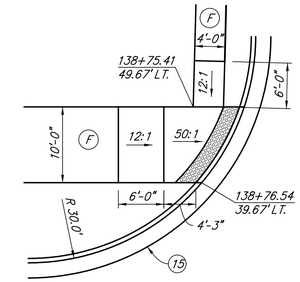
CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Bristol Ct.



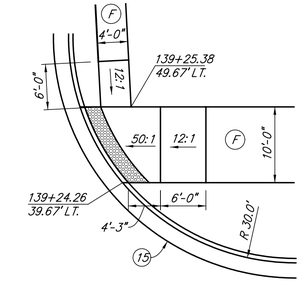
CURB RAMP, CONCRETE

SE Corner at Cumberland Ave. & Bristol Ct.



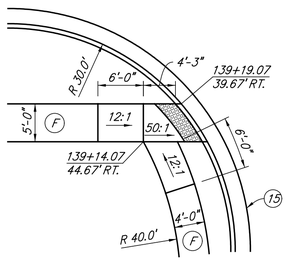
CURB RAMP, CONCRETE

NW Corner at Cumberland Ave. & Crimson Court



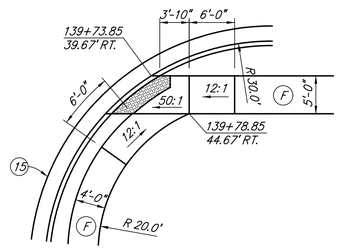
CURB RAMP, CONCRETE

NE Corner at Cumberland Ave. & Crimson Court



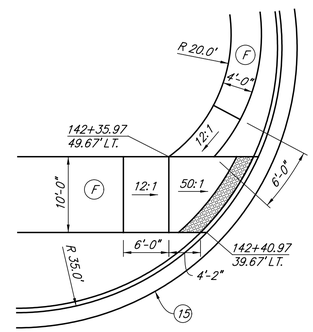
CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Arbour Ct.



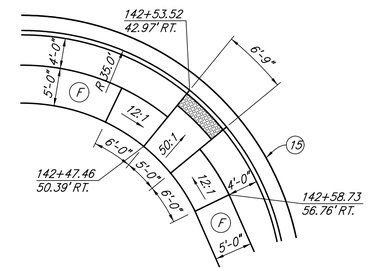
CURB RAMP, CONCRETE

SE Corner at Cumberland Ave. & Arbour Ct.



CURB RAMP, CONCRETE

NW Corner at Cumberland Ave. & Soldiers Home Rd.



CURB RAMP, CONCRETE

SW Corner at Cumberland Ave. & Soldiers Home Rd.

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- (F1) Multi-Use Path (See Typical Section)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

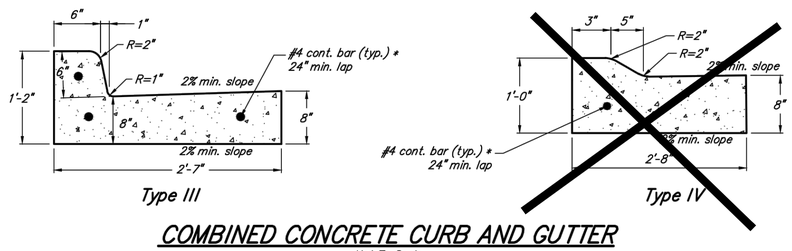
DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	
AS NOTED	
VERTICAL SCALE	
N/A	

SHEETS		
10	of	181
PROJECT NO.		

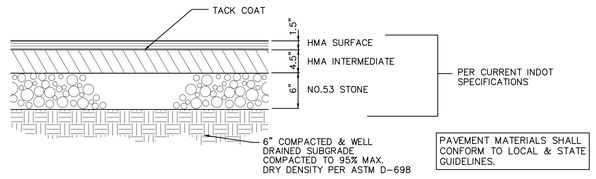


COMBINED CONCRETE CURB AND GUTTER

Not To Scale

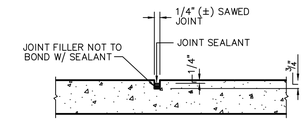
Curb Notes:

* Upon Engineer's approval, 6" compacted #53 stone base and fiber reinforced concrete may be used in lieu of rebar.



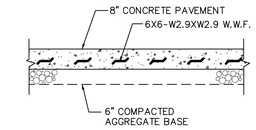
MEDIUM DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE



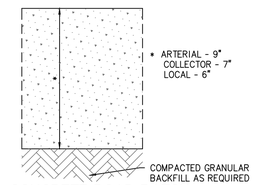
PAVEMENT CONTROL JOINT

NOT TO SCALE



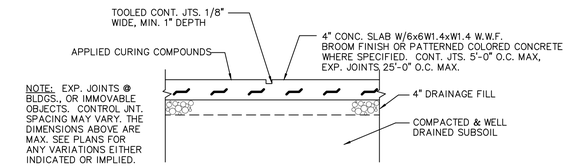
CONCRETE PAVEMENT SECTION

NOT TO SCALE



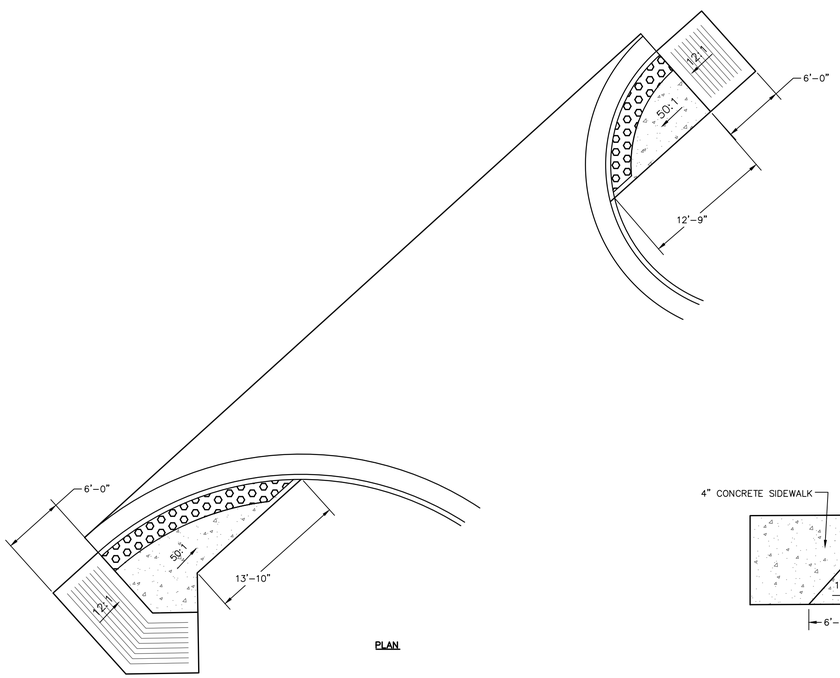
CONCRETE ROAD PATCH

NOT TO SCALE

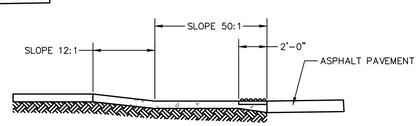


4" CONCRETE SIDEWALK DETAIL

NOT TO SCALE



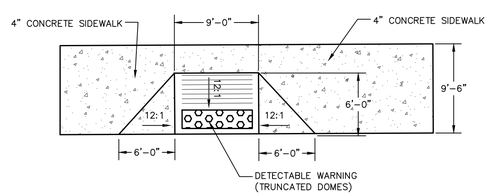
PLAN



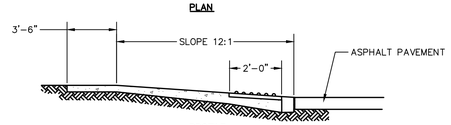
PROFILE

CONCRETE CURB RAMPS WEST PARKING LOT ENTRANCE

NOT TO SCALE



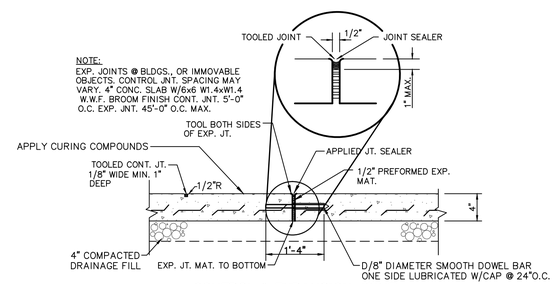
PLAN



PROFILE

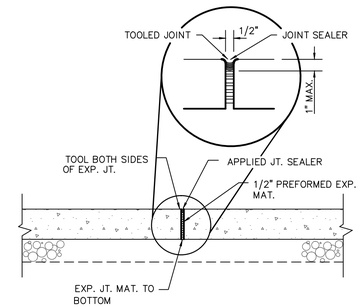
CONCRETE CURB RAMP SCHOOL ENTRANCE

NOT TO SCALE



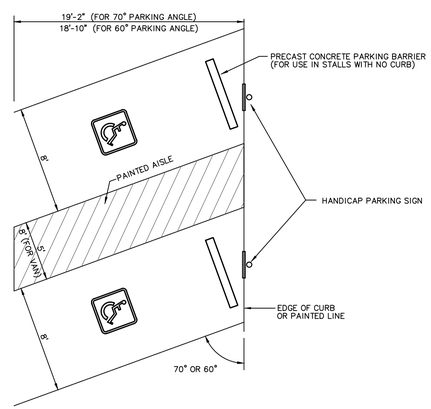
CONTROL & EXPANSION JOINT AND 4" SIDEWALK DETAIL

NOT TO SCALE



PAVEMENT EXPANSION JOINT DETAIL

NOT TO SCALE



ADA ACCESSIBLE, ANGLED PARKING STALL

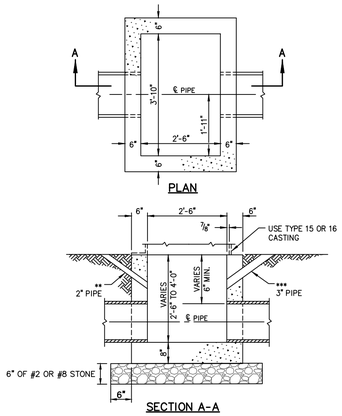
NOT TO SCALE

ADA ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CITY OF WEST LAFAYETTE	HORIZONTAL SCALE: N/A; BRIDGE FILE: N/A; VERTICAL SCALE: ; DESIGNATION NO.
DESIGNED: JLW	DRAWN: RCB	SITE DETAILS	SURVEY BOOK: ; SHEETS: 11 of 181
CHECKED: WAB	CHECKED: JLW		CONTRACT: ; PROJECT NO.

PRINT DATE: 5/8/14 EDIT DATE: 12/30/13 – 3:57 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.155.SD.DWG
PLOT SCALE: 1:2.5849



NOTES:

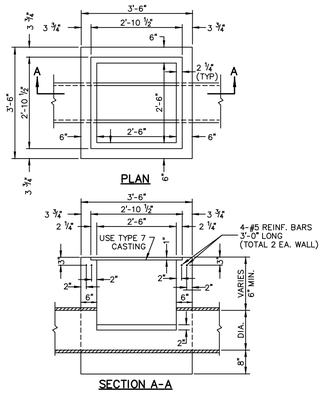
1. CAST-IN-PLACE OR PRECAST INLET SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE I.N.D.O.T. STANDARD SPECIFICATIONS.
2. TYPE "C" INLET IS INTENDED FOR USE PRIMARILY AS A SINGLE CURB LINE INLET AT THE LOW POINT OF A SAG VERTICAL CURVE.
3. WHEN PIPE IS FIELD CONNECTED TO A PRECAST UNIT, THE PRECAST UNIT SHALL INCLUDE A FIELD POURED CLASS "A" CONCRETE COLLAR OF A 6 INCH MINIMUM LONGITUDINAL AND RADIAL THICKNESS.

** 2" PIPE DRAIN FROM BOTTOM OF CURB TO INLET AGGREGATE TO BE PLACED AROUND INLET END OF PIPE

*** 3" MIN. DIA. PIPE TO BE KEPT OPEN FOR DRAINAGE OF SUBGRADE OR BASE UNTIL SURFACE IS PLACED.

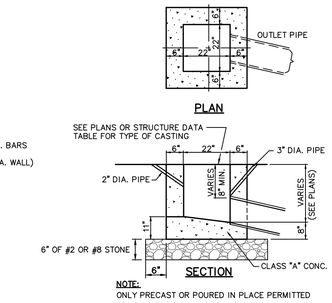
TYPE "C" INLET

NOT TO SCALE



TYPE "F" INLET

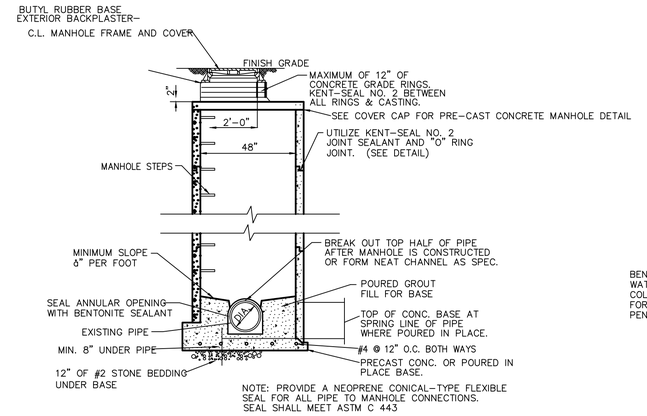
NOT TO SCALE



NOTE:
ONLY PRECAST OR POURED IN PLACE PERMITTED

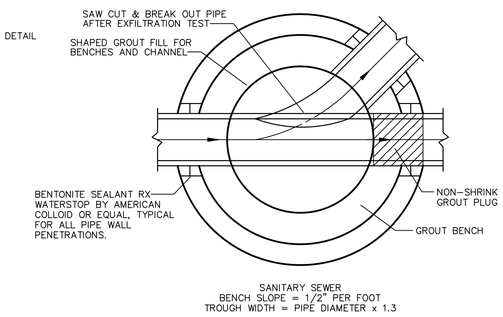
INLET TYPE "A"

NOT TO SCALE



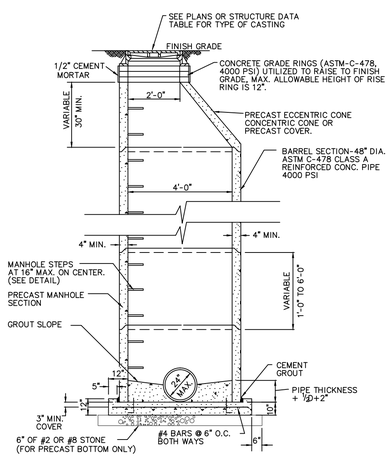
NEW MANHOLE OVER EXISTING SEWER

NOT TO SCALE



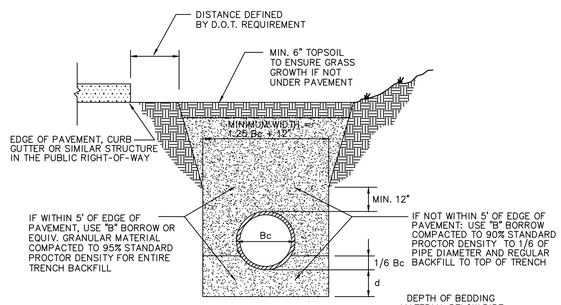
MANHOLE BENCH
NEW MANHOLE OVER EXISTING SEWER

NOT TO SCALE



MANHOLE TYPE "C" (STORM SEWER)

NOT TO SCALE



LEGEND

Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTE:

ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

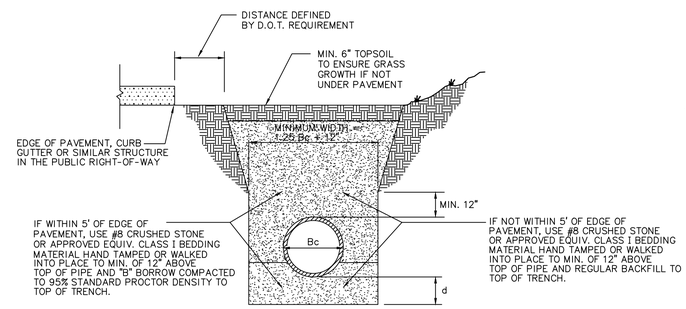
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

D	d (MIN)
27" & SMALLER	3
30" TO 60"	4
66" & LARGER	6

REINFORCED CONCRETE PIPE (RCP) BEDDING DETAIL

NOT TO SCALE



LEGEND

Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTE:

ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

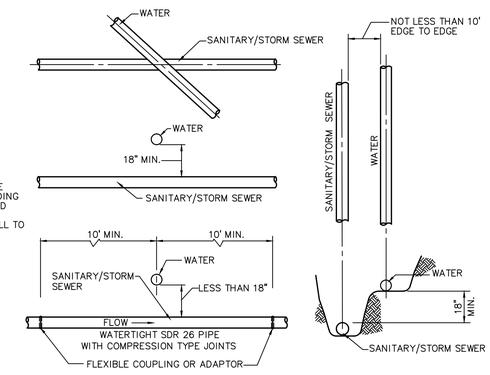
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

D	d (MIN)
27" & SMALLER	4
30" TO 60"	4
66" & LARGER	4

PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL

NOT TO SCALE



NOTES:

1. WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED
2. ALL CROSSINGS AND SEPARATIONS TO BE 327 IAC, ARTICLES 3 & 8
3. WHEN HORIZONTAL SEPARATION IS LESS THAN 10' OR VERTICAL SEPARATION IS LESS THAN 18", SANITARY PIPE MUST BE WATERTIGHT SDR 26 WITH COMPRESSION TYPE JOINTS.
4. CONTRACTOR SHALL VERIFY THAT MORE STRINGENT SEPARATION REQUIREMENTS DO NOT EXIST WITH THE JURISDICTIONAL WATER UTILITY. IF THEY DO EXIST, CONTRACTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENTS.

MIN. CROSSOVER & SEPARATION REQUIREMENTS FOR WATER & SANITARY/STORM SEWERS

NOT TO SCALE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLW DRAWN: RCB

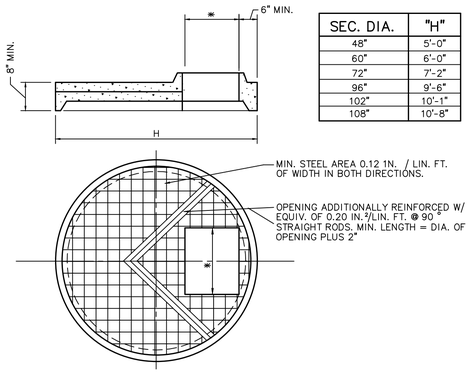
CHECKED: WAB CHECKED: JLW

CITY OF WEST LAFAYETTE

SITE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
	12 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:2.5849
EDIT DATE: 12/30/13 – 3:57 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.155.SD.DWG



SEC. DIA.	"H"
48"	5'-0"
60"	6'-0"
72"	7'-2"
96"	9'-6"
102"	10'-1"
108"	10'-8"

COVER CAP FOR PRE-CAST CONCRETE MANHOLE COVER

NOT TO SCALE

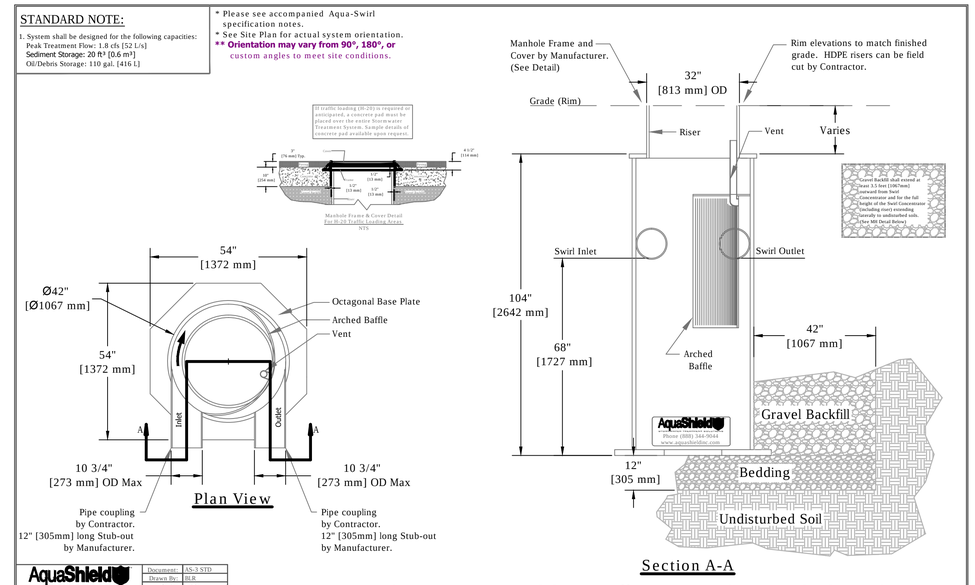
AQUA-SWIRL NOTES:

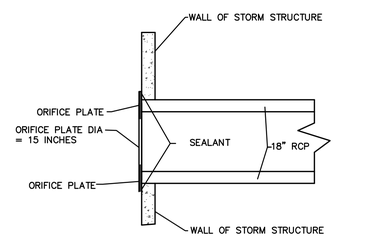
1. AQUA-SWIRL CONFIGURATION IS PROVIDED AS A GENERIC DETAIL OF PRODUCT TO BE INSTALLED ON-SITE.
2. AQUA-SWIRL AS-3 STANDARD DETAIL IS PROVIDED TO SHOW TYPICAL DIMENSIONS OF AS-4 UNIT; HOWEVER, IT IS UNDERSTOOD THAT THE OUTLET CONFIGURATION WILL RESEMBLE THE HORSESHOE.
3. A BASE OF 12" OF CLASS I MATERIAL, AS DEFINED BY ASTM D 2321, COMPACTED TO 95% PROCTOR DENSITY MUST BE PROVIDED.
4. BACKFILL MUST BE CLASS I, COMPACTED TO 90% PROCTOR DENSITY, EXTEND AT LEAST 3.5 FT BEYOND THE OUTSIDE OF THE UNIT AND FOR THE FULL HEIGHT.
5. CONNECT AQUA-SWIRL INLET AND OUTLET PIPE STUBS TO SYSTEM PIPES USING A FLEXIBLE CONNECTOR AND SHEAR GUARD.

STANDARD NOTE:

1. System shall be designed for the following capacities:
   Peak Treatment Flow: 1.8 cfs [52 L/s]
   Sediment Storage: 20 ft³ [0.6 m³]
   Oil/Debris Storage: 110 gal. [416 L]

* Please see accompanied Aqua-Swirl specification notes.
* See Site Plan for actual system orientation.
** Orientation may vary from 90°, 180°, or custom angles to meet site conditions.

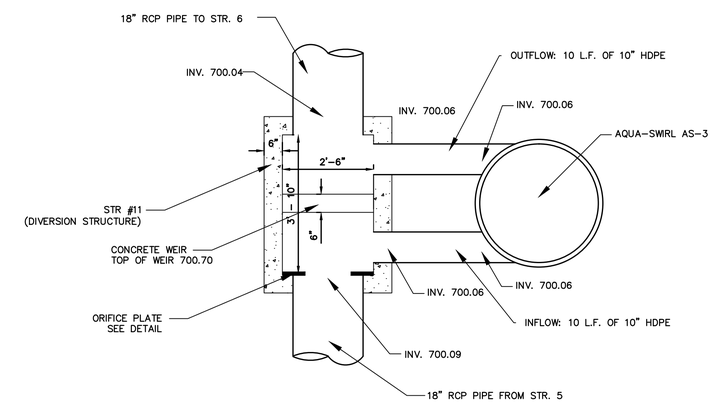




NOTES:
1. ORIFICE PLATE TO BE MIN. 1/4" THICK STEEL PLATE.
2. INVERT OF ORIFICE TO MATCH INVERT OF PIPE. ORIFICE DIAMETER SHALL BE 15 INCHES.
3. APPLY SEALANT AS SHOWN TO PROVIDE A WATER TIGHT SEAL BETWEEN ORIFICE PLATE AND THE WALL OF THE STORM STRUCTURE AND PIPE.

ORIFICE PLATE DETAIL

NOT TO SCALE



AQUA-SWIRL AS-3 DETAIL

NOT TO SCALE

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLW DRAWN: RCB

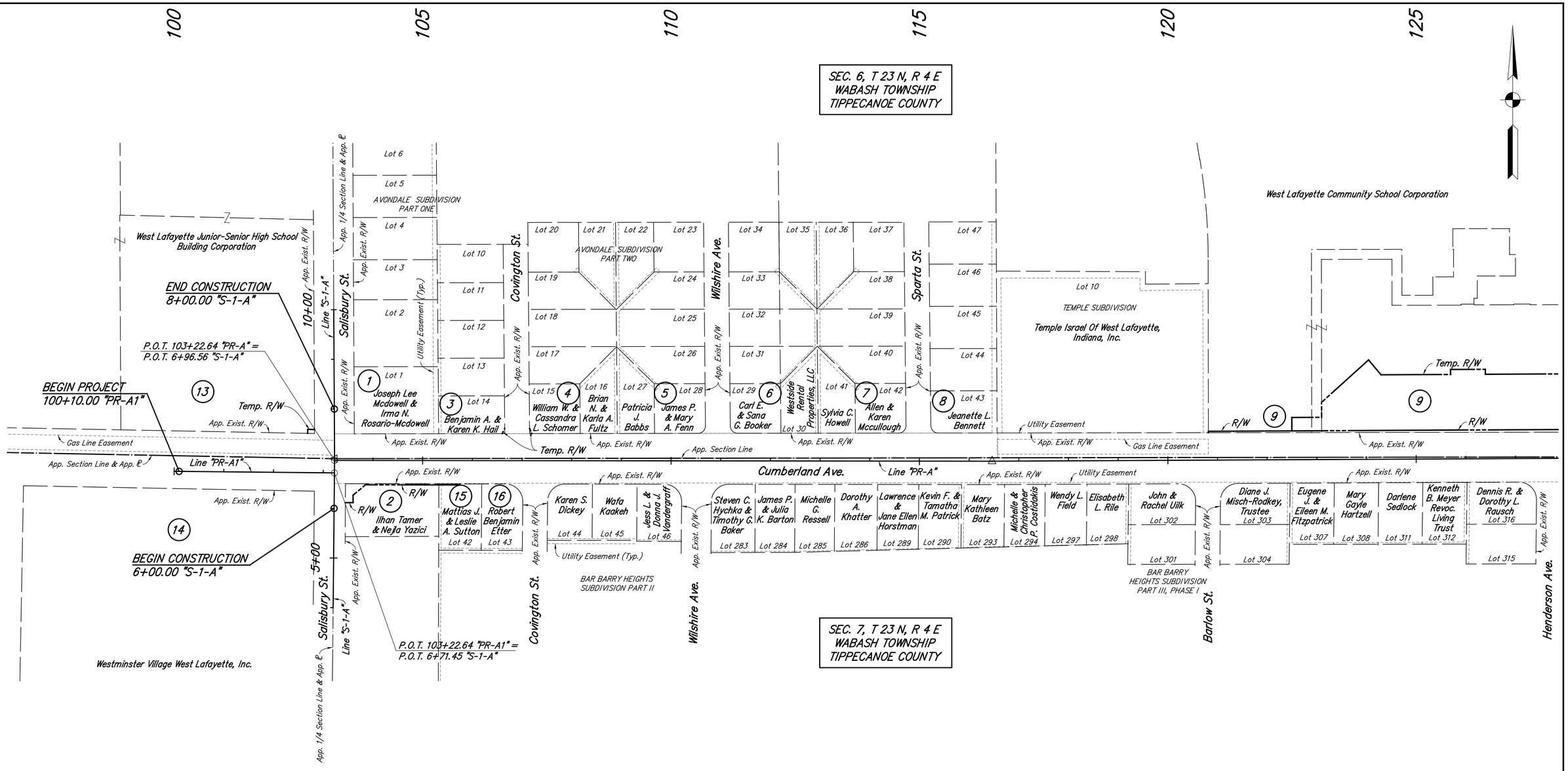
CHECKED: WAB CHECKED: JLW

CITY OF WEST LAFAYETTE

SITE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
	13 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:2.5849 EDIT DATE: 12/30/13 - 3:57 PM EDITED BY: JWLKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.155.SD.DWG



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

PLAT NO. 1

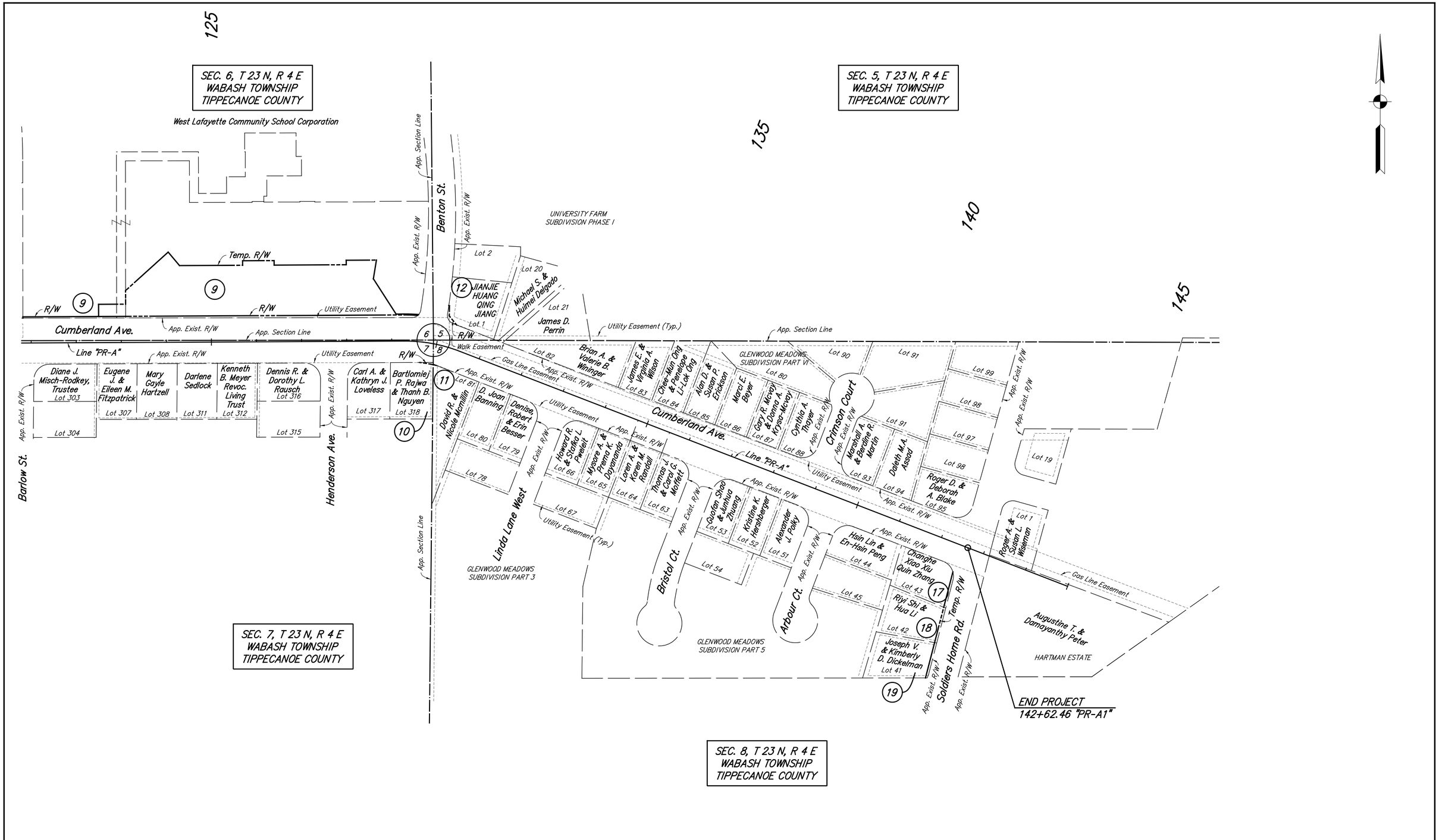
HORIZONTAL SCALE 1"=100'

VERTICAL SCALE N/A

SHEETS 14 of 181

PROJECT NO.

nmurphy 5/8/2014 10:24:14 AM P:*2013*00985*0. Drawings*201300985.RD.PL.01.dgn



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1"=100'	
		VERTICAL SCALE N/A	
DESIGNED: NRM / DRAWN: RJC	PLAT NO. 1	SHEETS 15 of 181	
CHECKED: MJM / CHECKED: MJM		PROJECT NO.	

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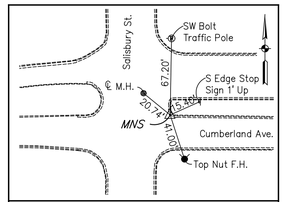
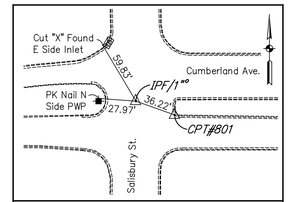


CPT#801: N 258,068.858 ; E 46,708.050
O.P.O.T. 103+56.80 "PR-A", 8.68' RT.



CPT#178: N 258,081.021 ; E 46,673.933
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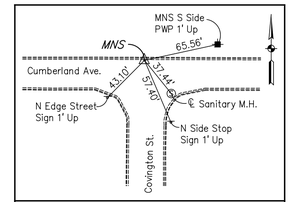

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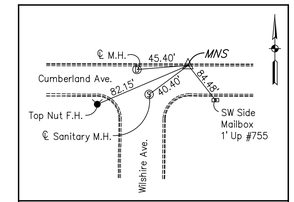
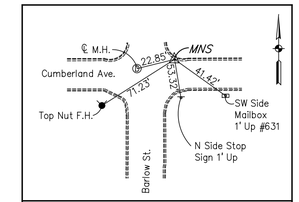
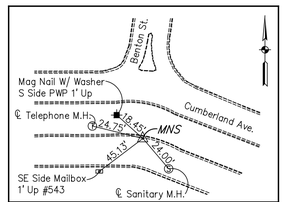
O.P.O.T. 107+25.33 "PR-A", 13.09' RT.



CPT#803: N 258,064.497 ; E 47,443.381
O.P.O.T. 110+92.14 "PR-A", 12.12' RT.



CPT#804: N 258,066.036 ; E 48,457.301
O.P.O.T. 112+05.99 "PR-A", 12.22' RT.



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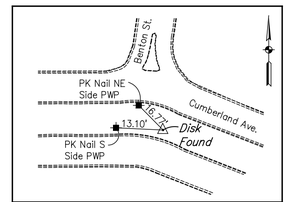
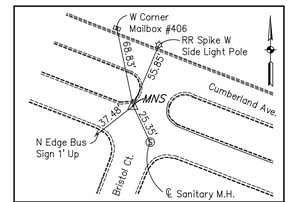
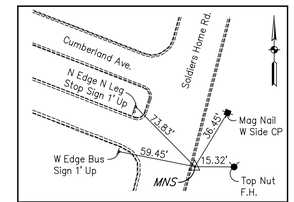
O.P.O.C. 129+91.55 "PR-A", 8.93' RT.



CPT#852: N 258,084.679 ; E 49,343.920
O.P.O.C. 129+91.55 "PR-A", 8.06' LT.



CPT#806: N 257,837.346 ; E 49,948.304
O.P.O.T. 136+43.33 "PR-A", 10.50' RT.



CPT#807: N 257,576.567 ; E 50,561.494
O.P.O.T. 143+09.30 "PR-A", 32.67' RT.

LINE "PR-A"		
ALIGNMENT STATION	NORTHING	EASTING
P.O.T. 103+22.64	258,077.5798	46,673.8995
P.I. 116+46.29	258,075.9283	47,997.5499
P.C. 129+28.30	258,082.4282	49,279.5464
P.I. 129+91.29	258,082.7475	49,342.5357
P.T. 130+52.81	258,060.0379	49,401.2896
P.O.T. 145+00.00	257,538.2894	50,751.1517

LINE "PR-A1"		
ALIGNMENT STATION	NORTHING	EASTING
P.O.T. 100+00.00	258,055.5846	46,361.0299
P.O.T. 103+22.64	258,052.4765	46,673.6549

LINE "S-1-A"		
ALIGNMENT STATION	NORTHING	EASTING
P.O.T. 4+00.00	257,781.0352	46,671.0108
P.I. 7+00.00	258,081.0210	46,673.9330
P.O.T. 10+00.00	258,381.0167	46,672.3290

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF
WEST LAFAYETTE

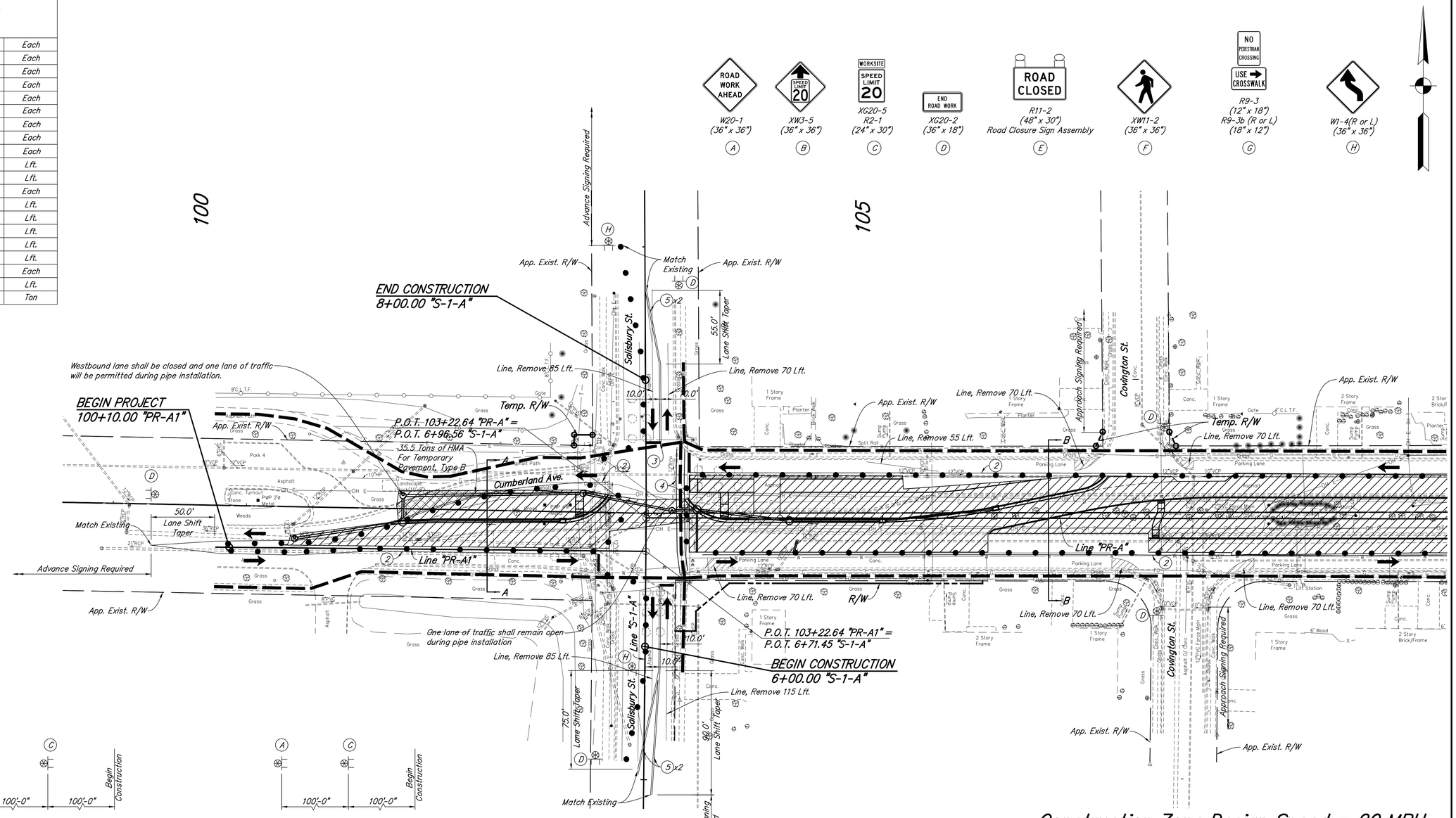
REFERENCE POINTS

HORIZONTAL SCALE: NONE
VERTICAL SCALE: N/A

SHEETS: 16 of 181
PROJECT NO.

QUANTITY SUMMARY - PHASE I

Construction Sign, Type A	21	Each
(A)	14	Each
(B)	5	Each
(F)	0	Each
(H)	2	Each
Construction Sign, Type B	34	Each
(C)	18	Each
(D)	14	Each
(G)	2	Each
Type III-A Barricade	0	Lft.
Line, Remove	2,720	Lft.
Road Closure Sign Assembly	0	Each
Line, Paint, Solid, White, 4 In.	0	Lft.
Line, Paint, Solid, Yellow, 4 In.	8,470	Lft.
Transverse Marking, Paint, Solid, White, 24 In.	12	Lft.
Line, Paint, Solid, White, Crosswalk 6 In.	285	Lft.
Temp. Pavm't Marking, Removable, Yellow, 4 in.	690	Lft.
Temporary Inlet	1	Each
Temporary Pipe	48	Lft.
HMA For Temporary Pavement, Type B	34.5	Ton



Note: Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS
PHASE I

HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE

SHEETS 17 of 181
PROJECT NO.

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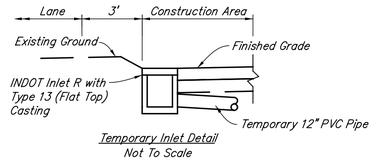
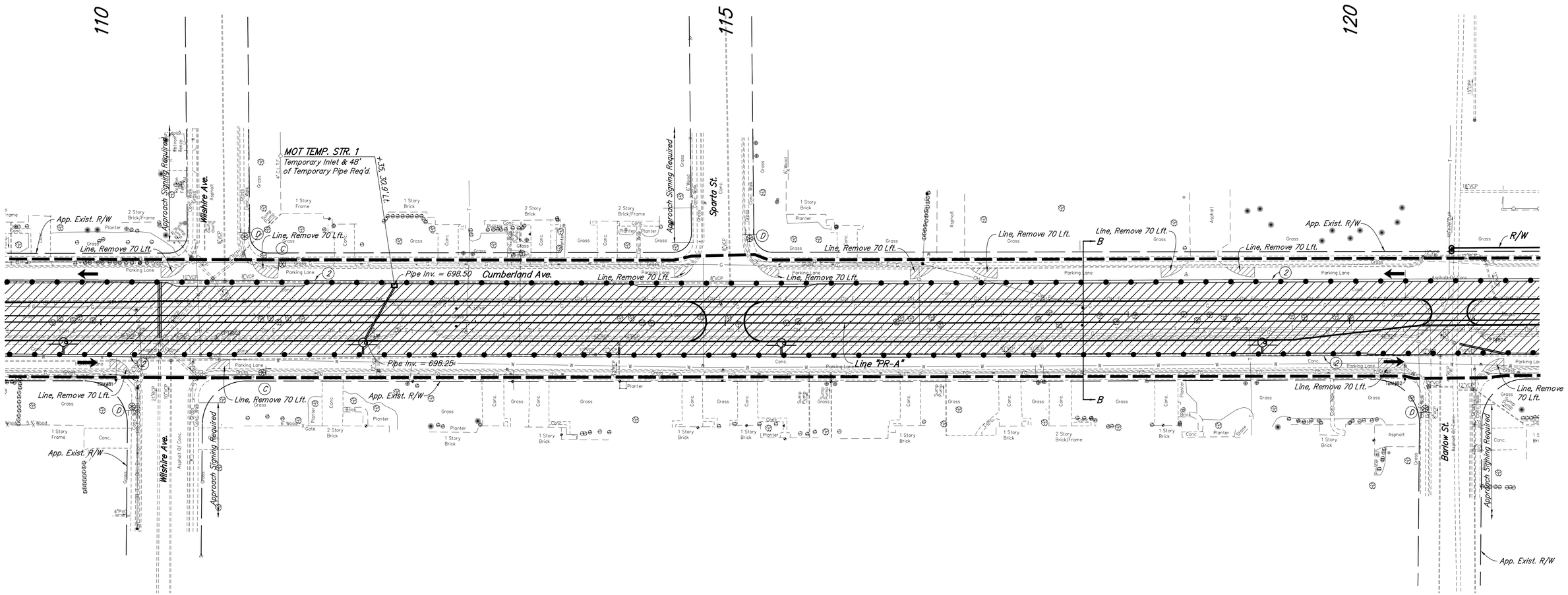
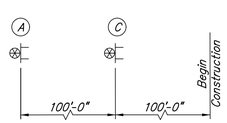


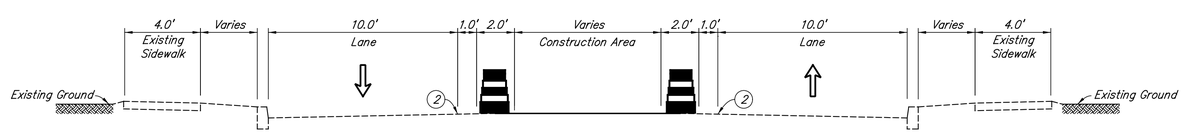
Temporary Inlet Detail
Not To Scale



Construction Zone Design Speed = 20 MPH



APPROACH SIGNING DETAIL



Section B-B

Note: Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

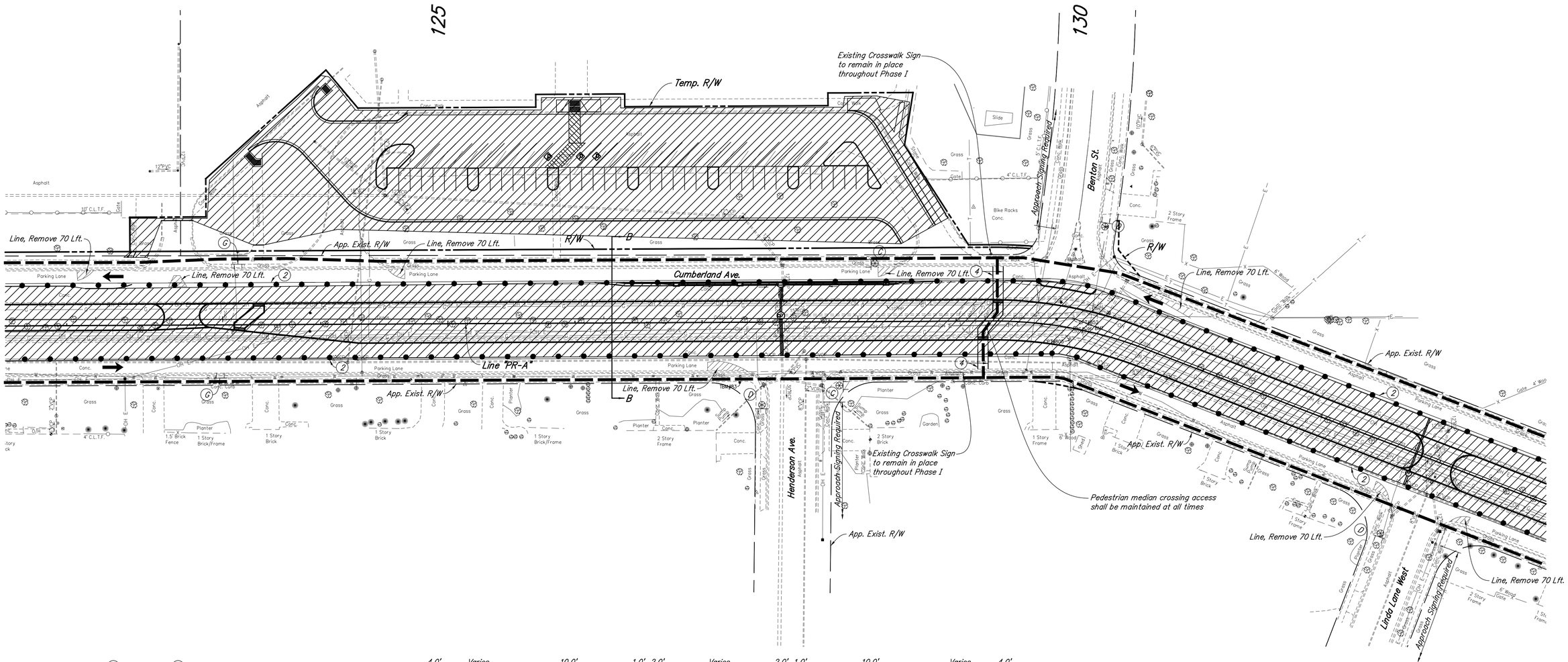
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

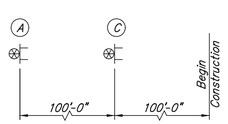
CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS PHASE I

HORIZONTAL SCALE	
1" = 40'	
VERTICAL SCALE	

SHEETS		
18	of	181
PROJECT NO.		





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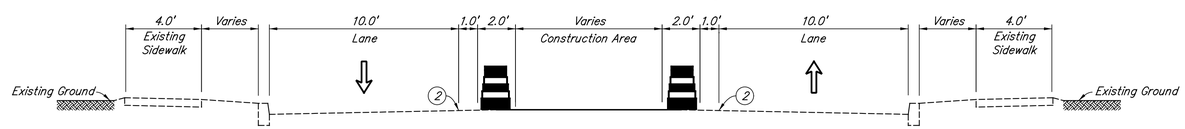


Section B-B

Construction Zone Design Speed = 20 MPH

Note: Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B 165 #/Sys. HMA, Surface, Type B on 275 #/Sys. HMA, Intermediate, Type B on 440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

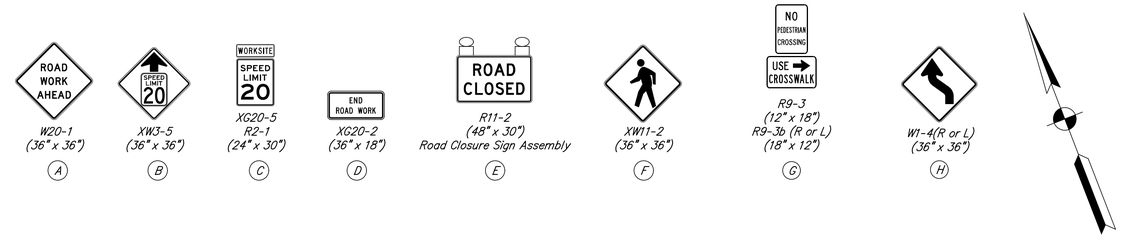
CITY OF WEST LAFAYETTE

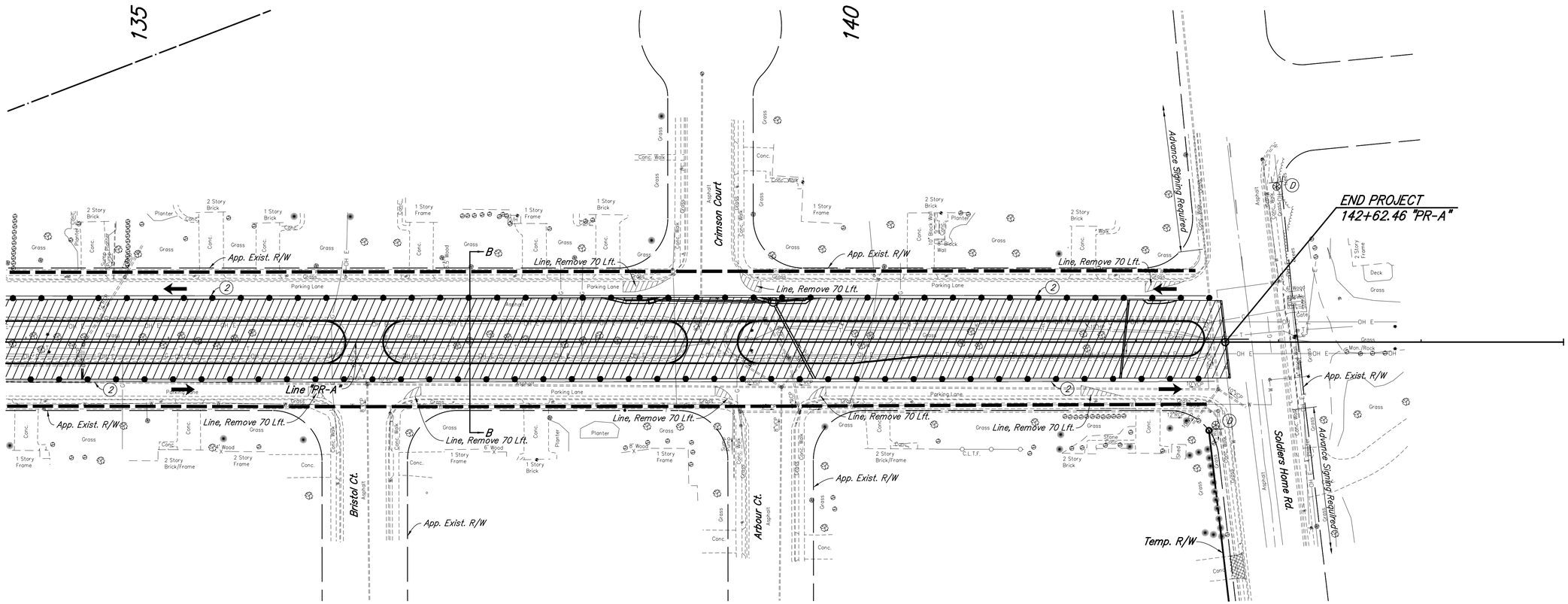
MAINTENANCE OF TRAFFIC DETAILS PHASE I

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	

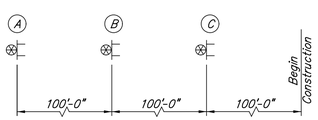
SHEETS 19 of 181

PROJECT NO.





Construction Zone Design Speed = 20 MPH



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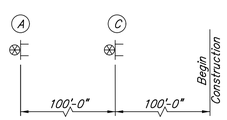

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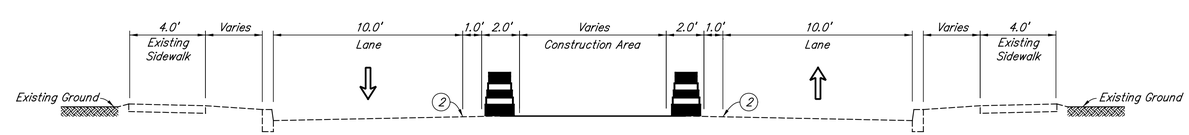


Section B-B

Note: Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

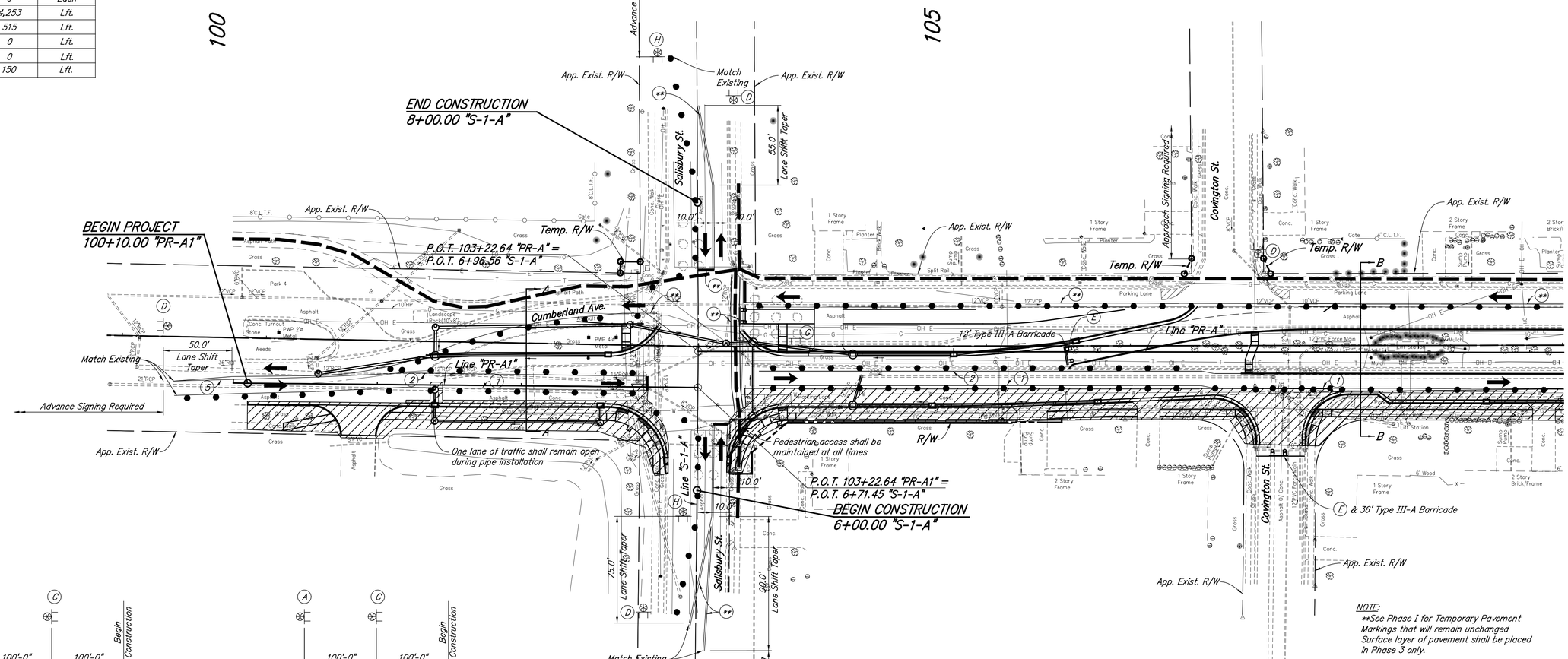
CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS PHASE I

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	20 of 181
PROJECT NO.	

QUANTITY SUMMARY - PHASE II

Construction Sign, Type A	16	Each
(A)	9	Each
(B)	5	Each
(F)	0	Each
(H)	2	Each
Construction Sign, Type B	23	Each
(C)	13	Each
(D)	9	Each
(G)	1	Each
Type III-A Barricade	192	Lft.
Line, Remove	0	Lft.
Road Closure Sign Assembly	6	Each
Line, Paint, Solid, White, 4 in.	4,253	Lft.
Line, Paint, Solid, Yellow, 4 in.	515	Lft.
Transverse Marking, Paint, Solid, White, 24 in.	0	Lft.
Line, Paint, Solid, Crosswalk, 6 in.	0	Lft.
Temp. Pavm't Marking, Removable, Yellow, 4 in.	150	Lft.



NOTE:
**See Phase I for Temporary Pavement Markings that will remain unchanged Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B 165 #/Sys. HMA, Surface, Type B on 275 #/Sys. HMA, Intermediate, Type B on 440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS PHASE II

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	21 of 181
PROJECT NO.	

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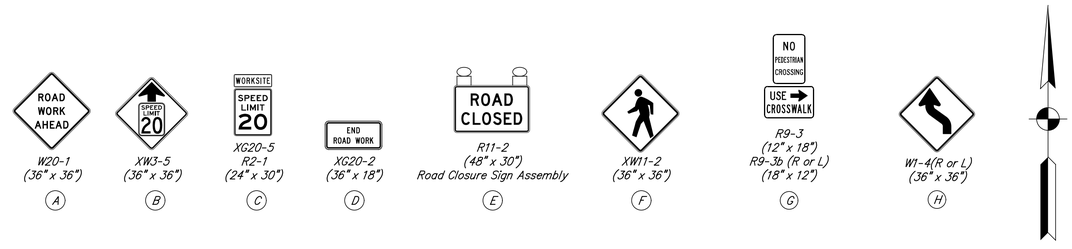
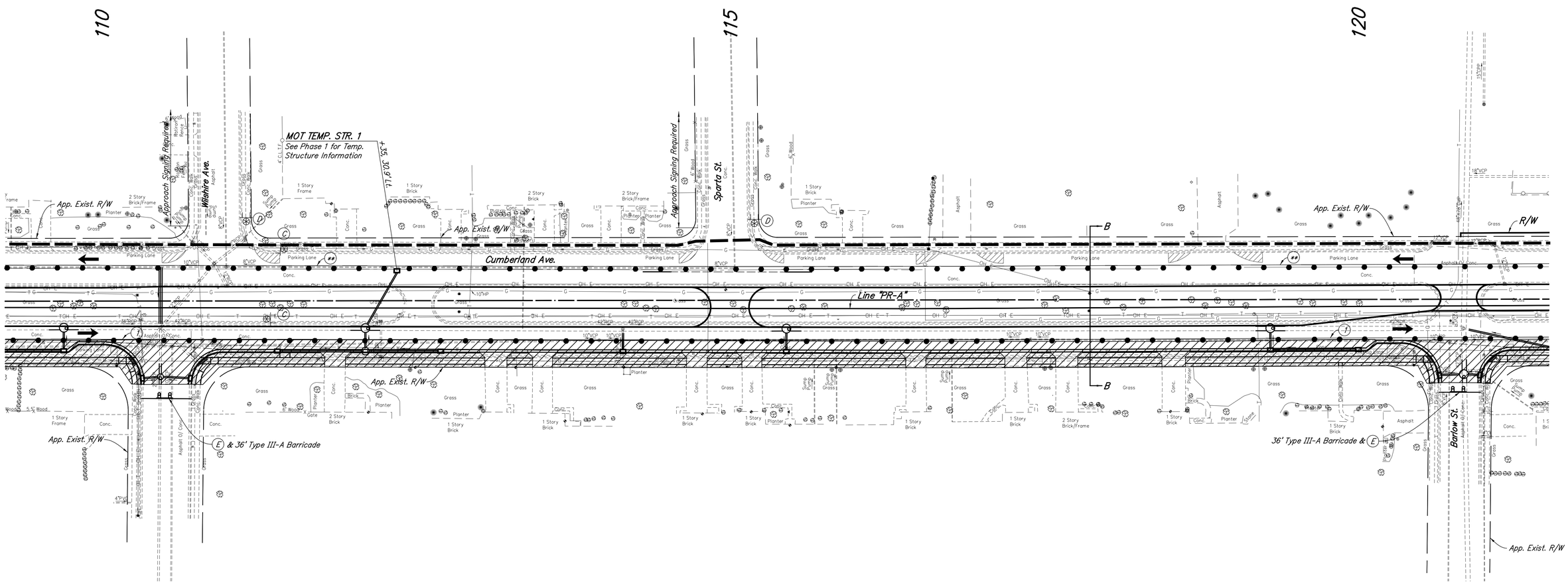
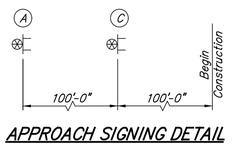
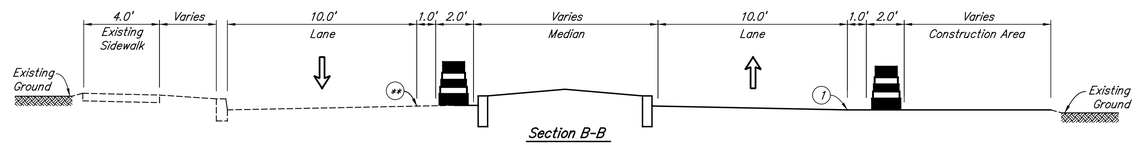






APPROACH SIGNING DETAIL



Section B-B

Construction Zone Design Speed = 20 MPH

NOTE:
**See Phase I for Temporary Pavement Markings that will remain unchanged Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

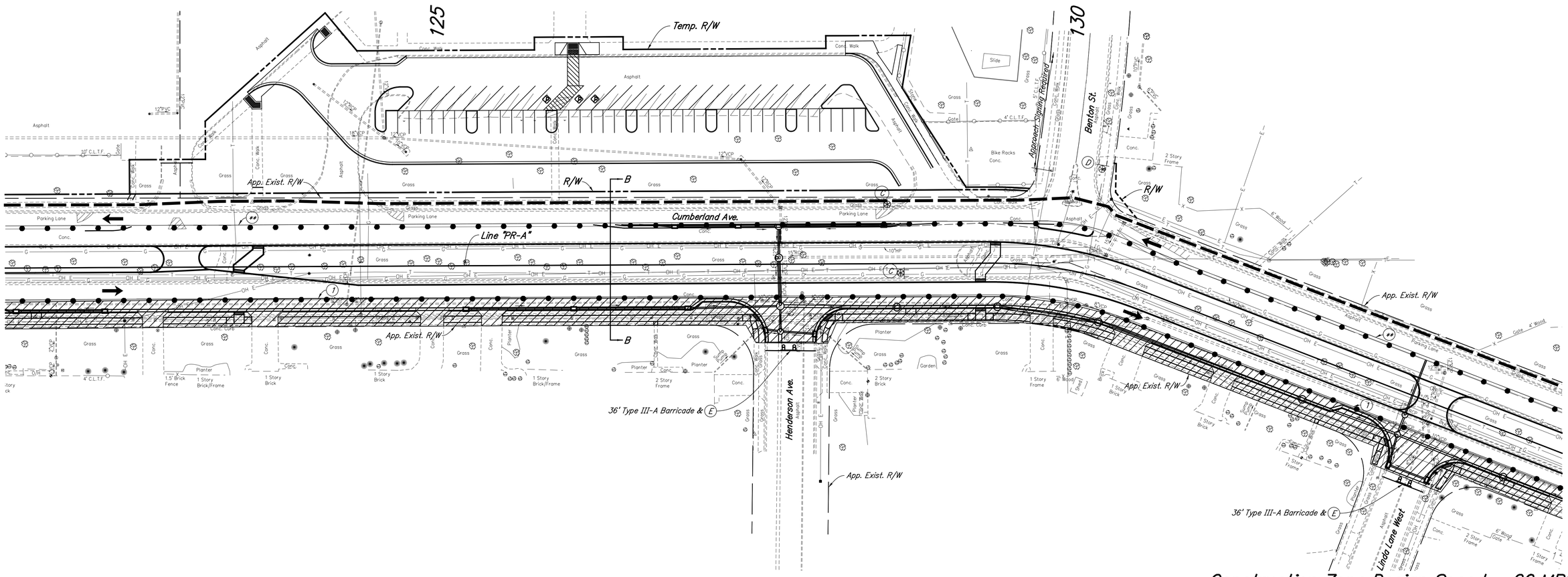
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

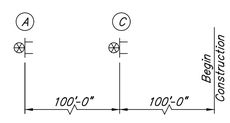
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS PHASE II

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	22 of 181
PROJECT NO.	





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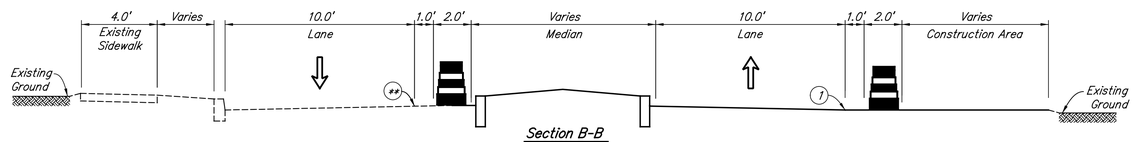


Section B-B

NOTE:
**See Phase I for Temporary Pavement Markings that will remain unchanged
Surface layer of pavement shall be placed in Phase 3 only.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

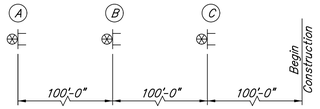
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

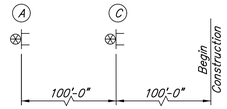
CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS
PHASE II

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	23 of 181
PROJECT NO.	



ADVANCE SIGNING DETAIL



APPROACH SIGNING DETAIL

W20-1 (36" x 36") (A)

XW3-5 (36" x 36") (B)

XG20-5 R2-1 (24" x 30") (C)

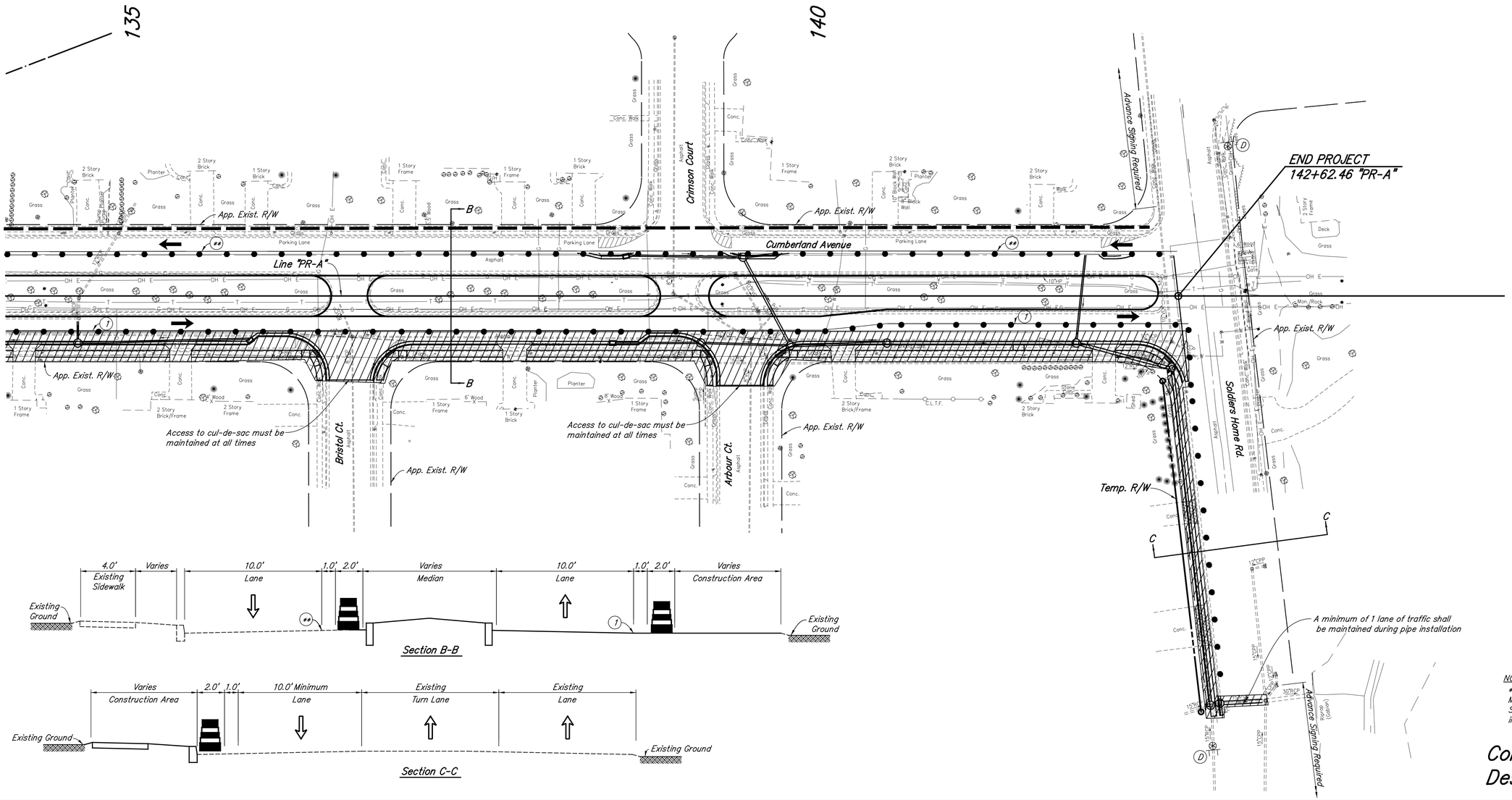
XG20-2 (36" x 18") (D)

R11-2 (48" x 30") Road Closure Sign Assembly (E)

XW11-2 (36" x 36") (F)

R9-3 (12" x 18") R9-3b (R or L) (18" x 12") (G)

W1-4(R or L) (36" x 36") (H)



NOTE:
**See Phase I for Temporary Pavement Markings that will remain unchanged
Surface layer of pavement shall be placed in Phase 3 only.

Construction Zone
Design Speed = 20 MPH

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

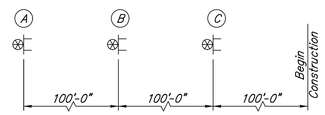
CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS
PHASE II

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	24 of 181
PROJECT NO.	

QUANTITY SUMMARY - PHASE III

Construction Sign, Type A	19	Each
(A)	10	Each
(B)	5	Each
(F)	4	Each
(H)	0	Each
Construction Sign, Type B	25	Each
(C)	14	Each
(D)	10	Each
(G)	1	Each
Type III-A Barricade	216	Lft.
Line, Remove	0	Lft.
Road Closure Sign Assembly	6	Each
Line, Solid, Paint, White, 4 in.	3,900	Lft.
Line, Solid, Paint, Yellow, 4 in.	0	Lft.
Transverse Marking, Solid, Paint, White, 24 in.	0	Lft.
Line, Paint, Solid, Crosswalk, 6 in.	0	Lft.



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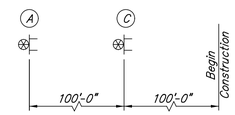

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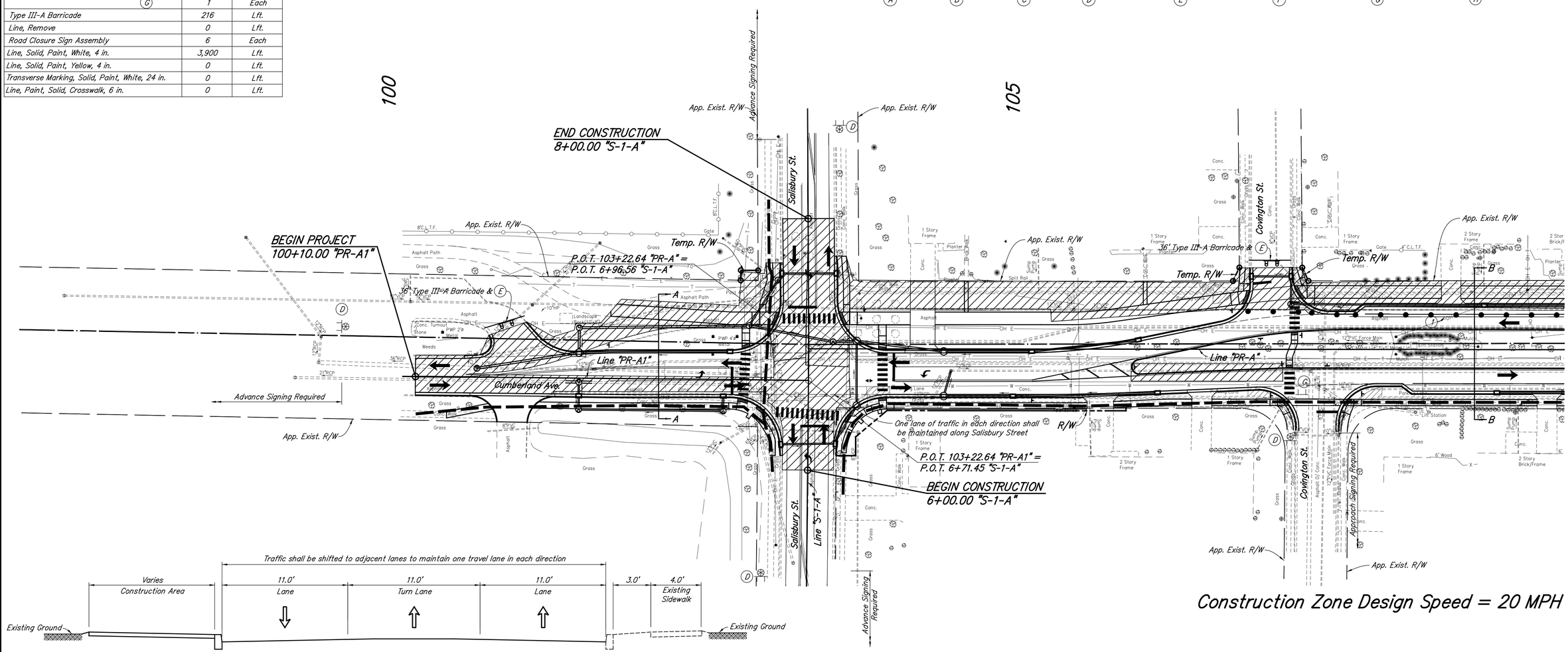
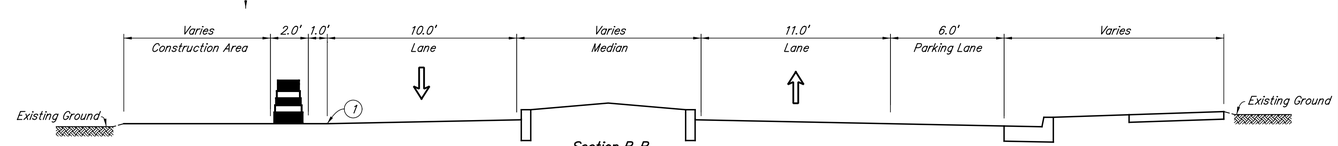


Section A-A



Section B-B

Note:
Final Pavement Markings shall be installed as applicable.
See Pavement Marking Details.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS
PHASE III

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	25 of 181
PROJECT NO.	

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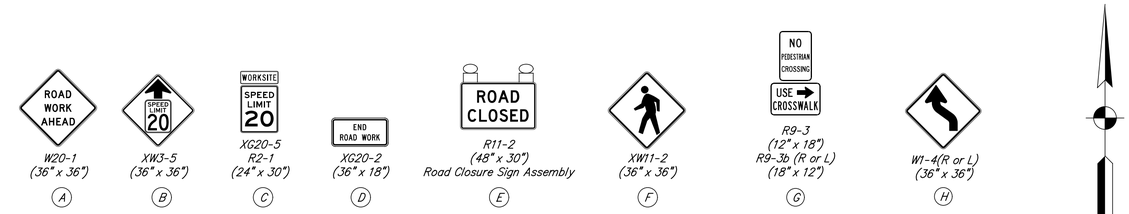
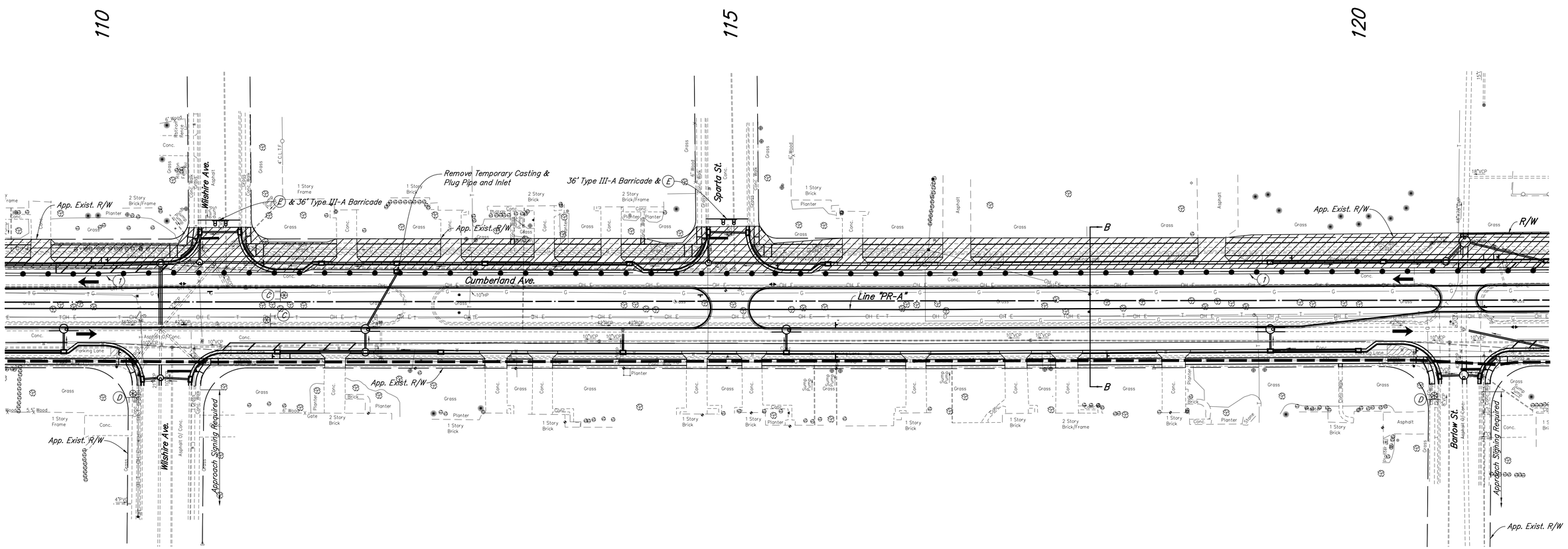
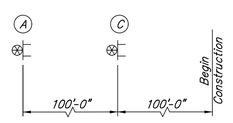
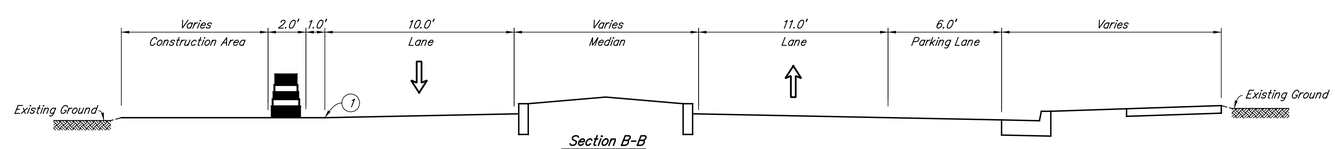




Construction Zone Design Speed = 20 MPH



APPROACH SIGNING DETAIL



Section B-B

Note:
Final Pavement Markings shall be installed as applicable.
See Pavement Marking Details.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

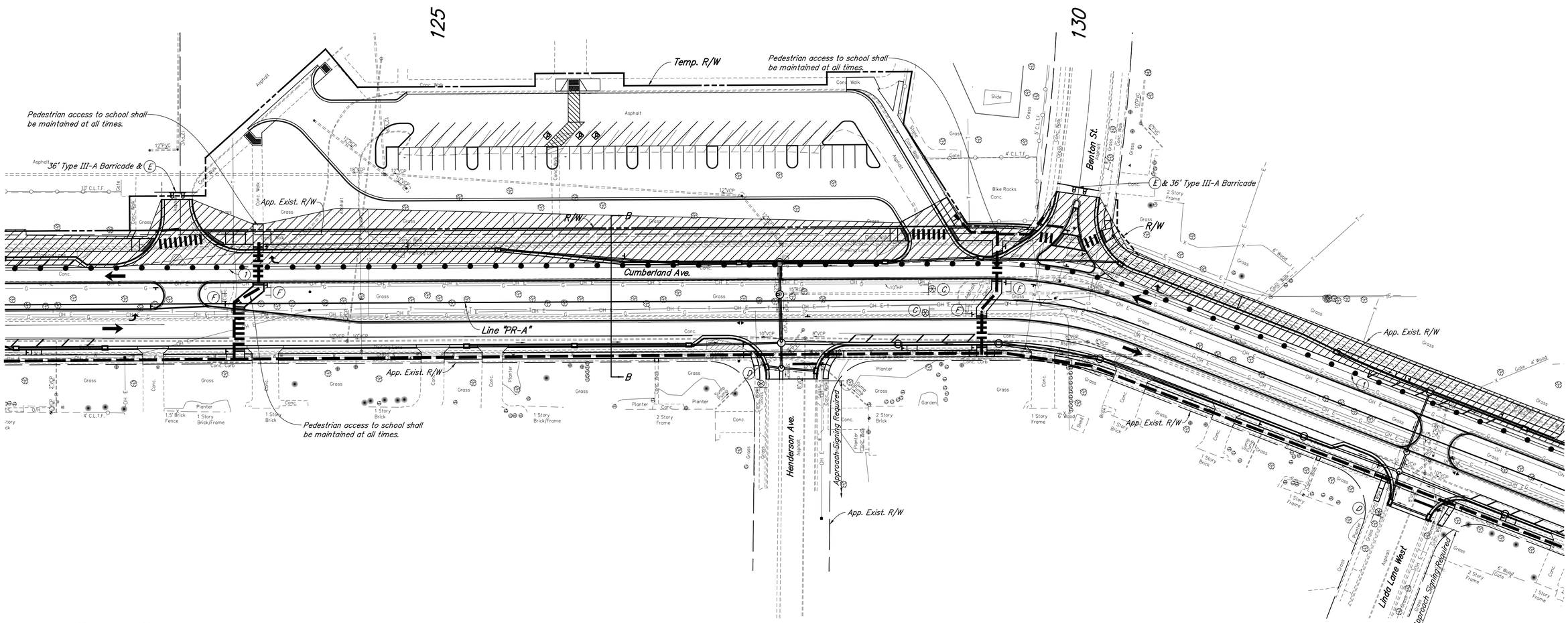
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

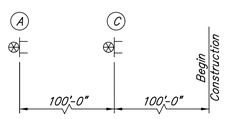
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

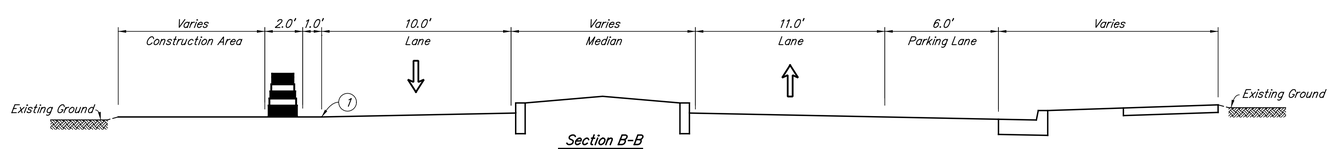
MAINTENANCE OF TRAFFIC DETAILS PHASE III

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	26 of 181
PROJECT NO.	





APPROACH SIGNING DETAIL



Section B-B

Construction Zone Design Speed = 20 MPH

Note:
Final Pavement Markings shall be installed as applicable.
See Pavement Marking Details.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

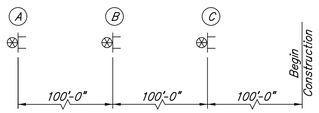
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS PHASE III

HORIZONTAL SCALE	1" = 40'
VERTICAL SCALE	
SHEETS	27 of 181
PROJECT NO.	



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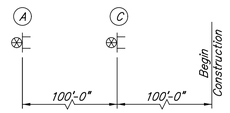

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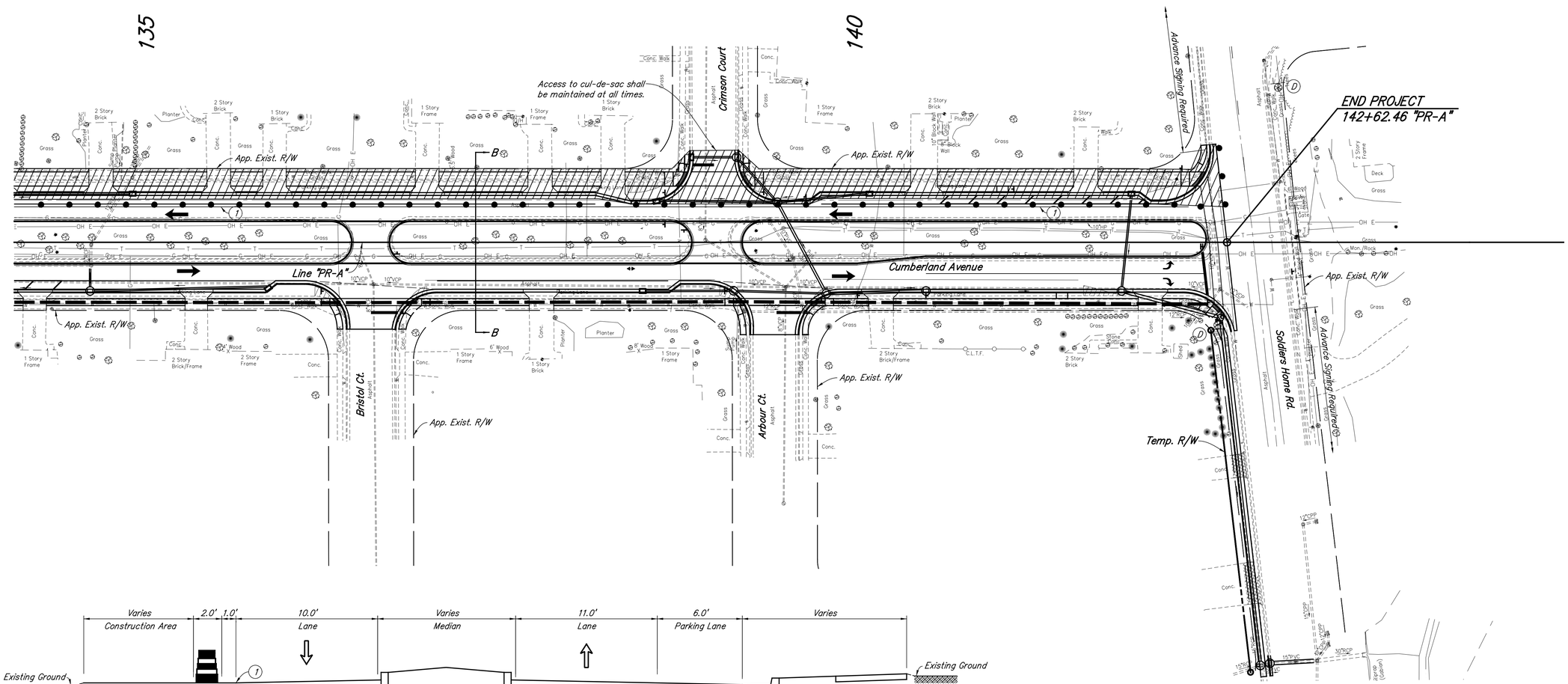
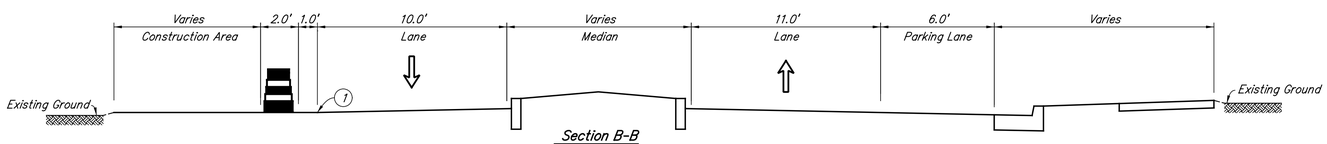




Section B-B

Construction Zone Design Speed = 20 MPH

Note:
Final Pavement Markings shall be installed as applicable.
See Pavement Marking Details.

LEGEND

- Construction Sign, Type A, B, or C
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Type III-A or III-B Barricade
- Construction Area
- Direction of Traffic
- Standard Drum
- (1) Line, Paint, Solid, White, 4 in.
- (2) Line, Paint, Solid, Yellow, 4 in.
- (3) Transverse Marking, Paint, Solid, White, 24 in.
- (4) Line, Paint, Solid, White, Crosswalk, 6 in.
- (5) Temp. Pavm't Marking, Removable, Yellow, 4 in.
- Pedestrian Route

HMA For Temporary Pavement, Type B
165 #/Sys. HMA, Surface, Type B on
275 #/Sys. HMA, Intermediate, Type B on
440 #/Sys. HMA Base, Type B

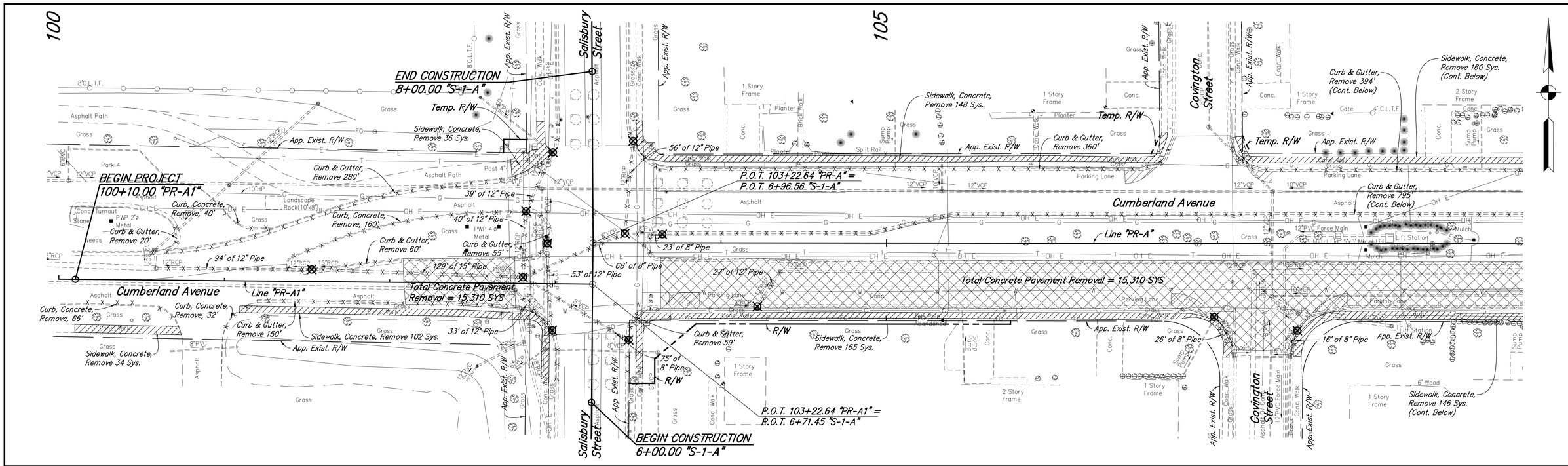
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

MAINTENANCE OF TRAFFIC DETAILS
PHASE III

HORIZONTAL SCALE	
1" = 40'	
VERTICAL SCALE	
SHEETS	
28 of 181	
PROJECT NO.	



LEGEND

X X X	Removal
	Manhole or Inlet, Remove
	Concrete Pavement, Remove
	Sidewalk, Concrete, Remove

Note: Drainage pipe may be filled with flowable backfill instead of being removed. The flowable backfill shall be in accordance with the 2014 INDOT specifications.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

REMOVAL DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	29 of 181
PROJECT NO.	

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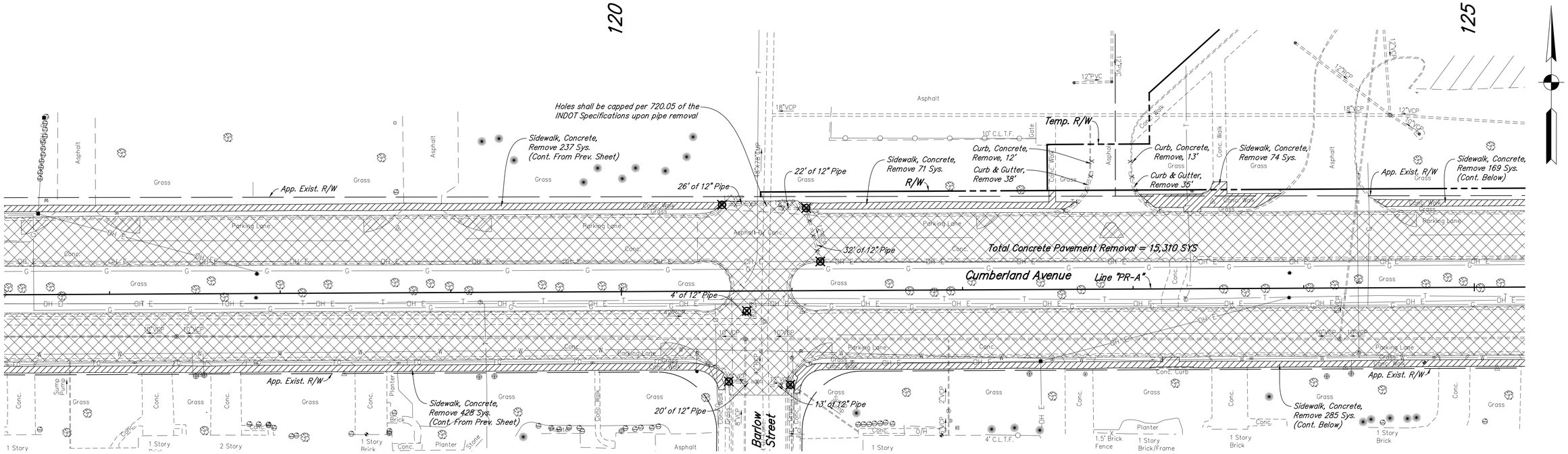
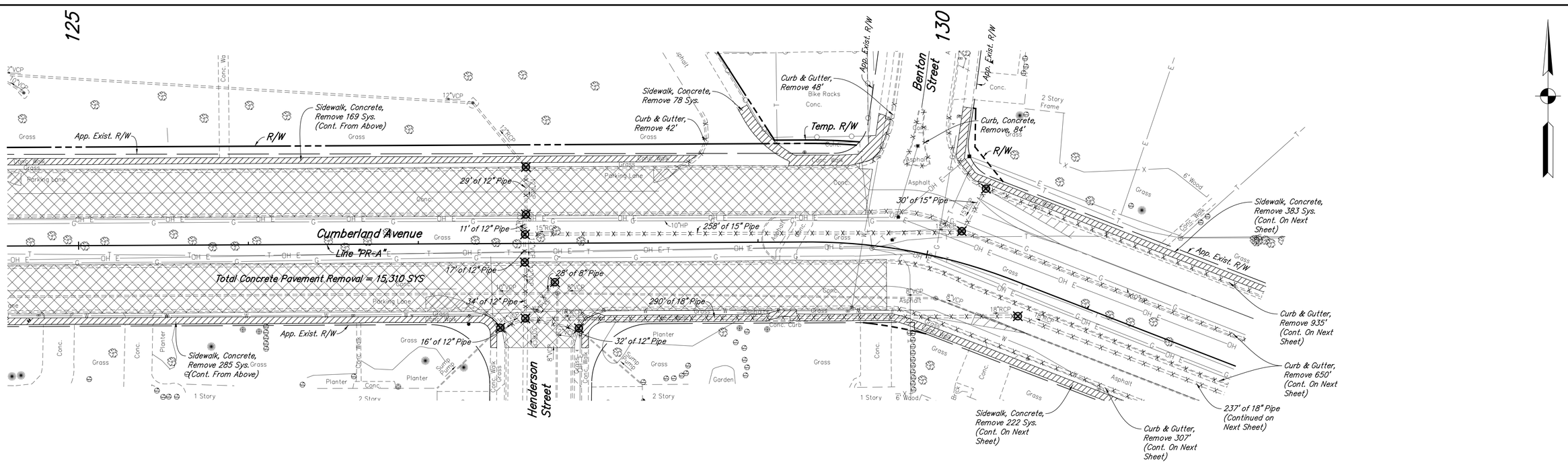




LEGEND

X X X	Removal
	Manhole or Inlet, Remove
	Concrete Pavement, Remove
	Sidewalk, Concrete, Remove

Note: Drainage pipe may be filled with flowable backfill instead of being removed. The flowable backfill shall be in accordance with the 2014 INDOT specifications.

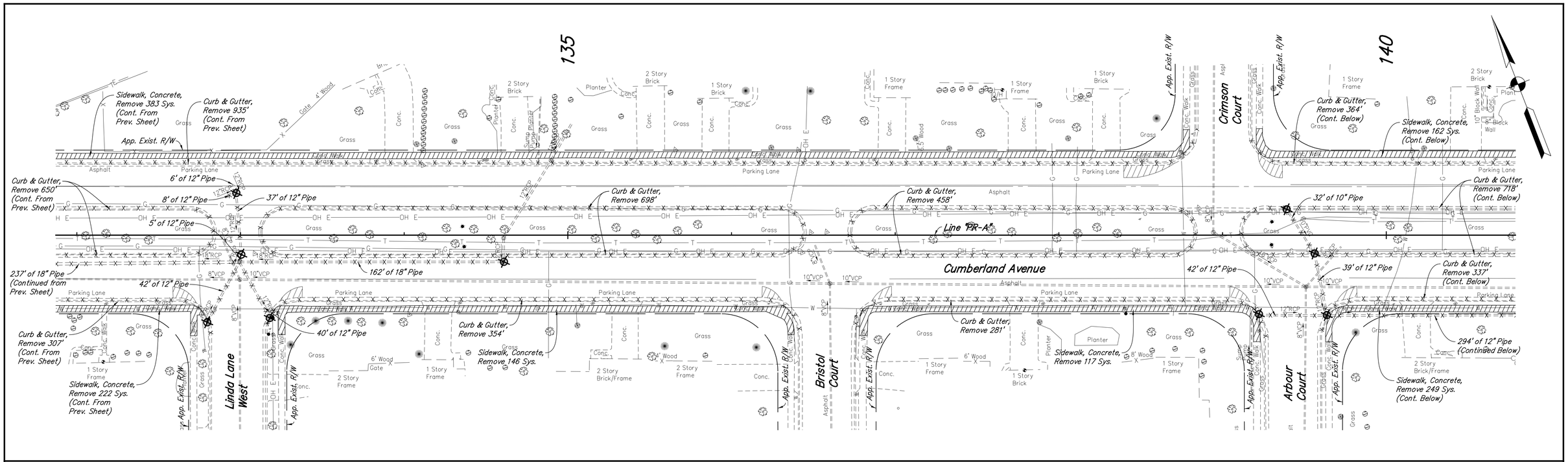
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

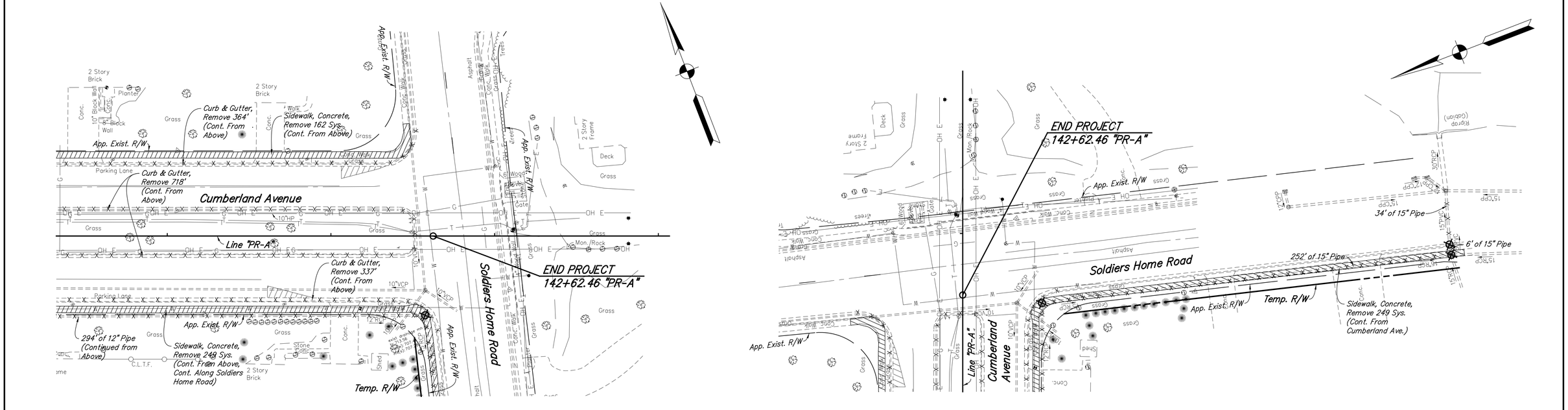
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

REMOVAL DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	30 of 181
PROJECT NO.	





LEGEND

X X X	Removal
	Manhole or Inlet, Remove
	Concrete Pavement, Remove
	Sidewalk, Concrete, Remove

Note: Drainage pipe may be filled with flowable backfill instead of being removed. The flowable backfill shall be in accordance with the 2014 INDOT specifications.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

REMOVAL DETAILS

HORIZONTAL SCALE	
1" = 30'	
VERTICAL SCALE	
SHEETS	
31 of 181	
PROJECT NO.	

DEMOLITION LEGEND

- EXISTING CONCRETE TO BE REMOVED
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING PAVEMENT TO BE MILLED

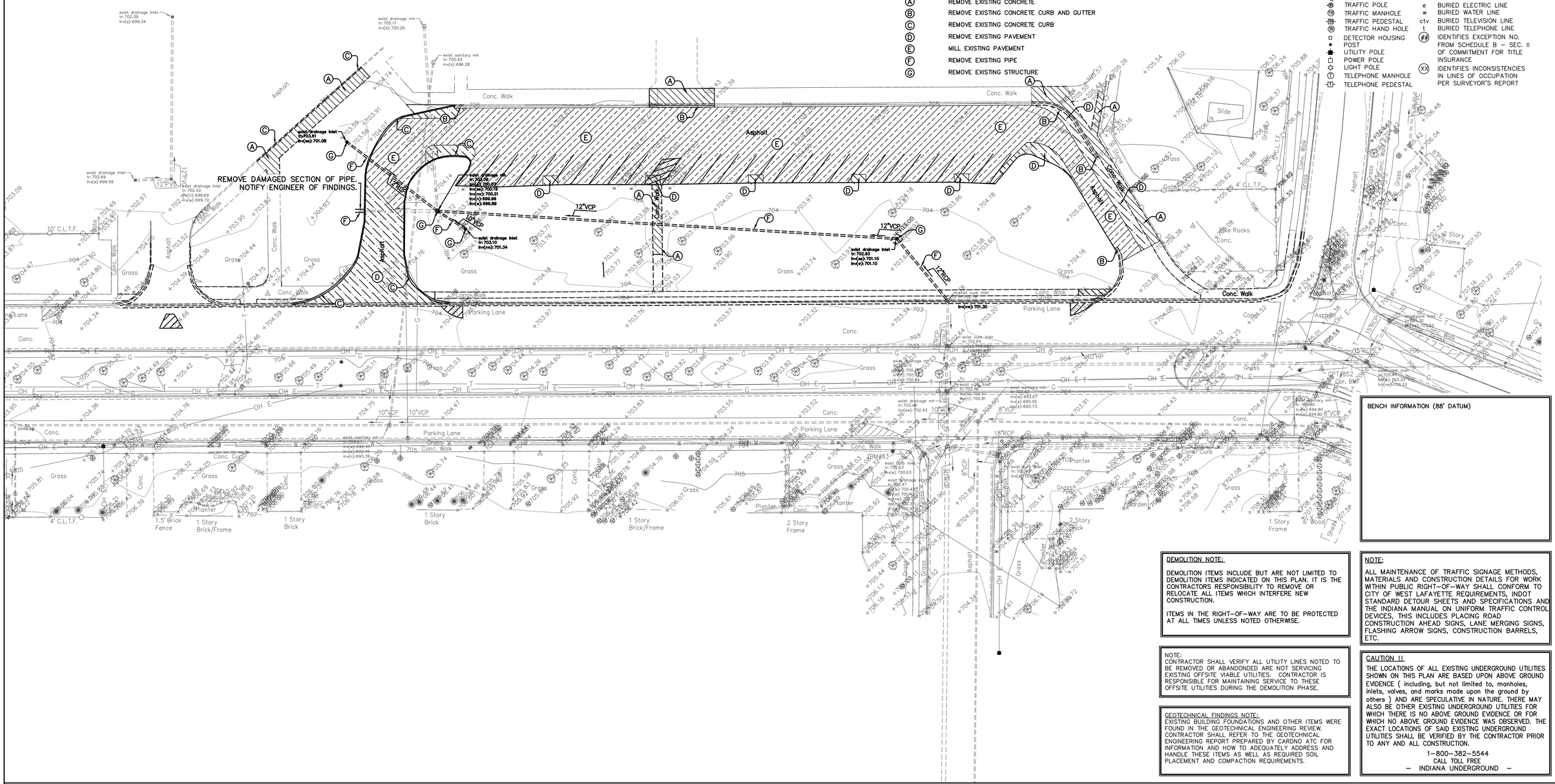
- (A) REMOVE EXISTING CONCRETE
- (B) REMOVE EXISTING CONCRETE CURB AND GUTTER
- (C) REMOVE EXISTING CONCRETE CURB
- (D) REMOVE EXISTING PAVEMENT
- (E) MILL EXISTING PAVEMENT
- (F) REMOVE EXISTING PIPE
- (G) REMOVE EXISTING STRUCTURE

30' 0' 30' 60'

SCALE: 1" = 30'

EXISTING LEGEND

- BEEHIVE INLET
- CURB INLET
- STORM MANHOLE
- MANHOLE
- SANITARY MANHOLE
- SIGN
- TRAFFIC POLE
- TRAFFIC MANHOLE
- TRAFFIC PEDESTAL
- TRAFFIC HAND HOLE
- DETECTOR HOUSING
- POST
- UTILITY POLE
- POWER POLE
- LIGHT POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- ELECTRIC METER
- TRANSFORMER
- WATER VALVE
- FIRE HYDRANT
- STAND PIPE
- ohe OVERHEAD ELECTRIC LINE
- e BURIED ELECTRIC LINE
- w BURIED WATER LINE
- ctv BURIED TELEVISION LINE
- t BURIED TELEPHONE LINE
- (##) IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
- (XX) IDENTIFIES INCONSISTENCIES IN LINES OF OCCUPATION PER SURVEYOR'S REPORT



BENCH INFORMATION (88' DATUM)

DEMOLITION NOTE:

DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE OR RELOCATE ALL ITEMS WHICH INTERFERE NEW CONSTRUCTION.

ITEMS IN THE RIGHT–OF–WAY ARE TO BE PROTECTED AT ALL TIMES UNLESS NOTED OTHERWISE.

NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT–OF–WAY SHALL CONFORM TO CITY OF WEST LAFAYETTE REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

NOTE:
CONTRACTOR SHALL VERIFY ALL UTILITY LINES NOTED TO BE REMOVED OR ABANDONDED ARE NOT SERVICING EXISTING OFFSITE VIABLE UTILITIES. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SERVICE TO THESE OFFSITE UTILITIES DURING THE DEMOLITION PHASE.

GEOTECHNICAL FINDINGS NOTE:
EXISTING BUILDING FOUNDATIONS AND OTHER ITEMS WERE FOUND IN THE GEOTECHNICAL ENGINEERING REVIEW. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CARDNO ATC FOR INFORMATION AND HOW TO ADEQUATELY ADDRESS AND HANDLE THESE ITEMS AS WELL AS REQUIRED SOIL PLACEMENT AND COMPACTION REQUIREMENTS.

CAUTION !!

THE 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1–800–382–5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: JLW	DRAWN: RCB
CHECKED: WAB	CHECKED: JLW

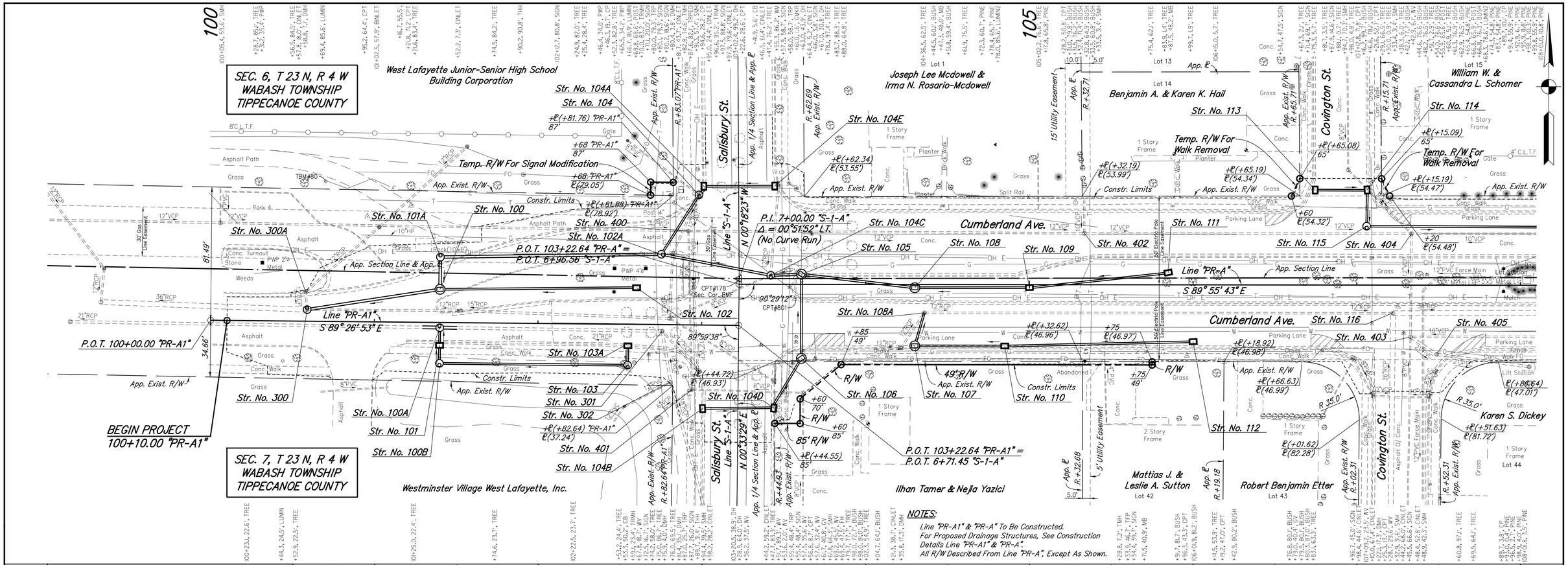
CITY OF WEST LAFAYETTE

DEMOLITION PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.

SURVEY BOOK	SHEETS
	32 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 – 11:29 AM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.138.XTPDP.DWG



EARTHWORK SUMMARY

FILL + 25%	7,225	= CYS.
EXCAVATION, COMMON	7,675	= CYS.
ASPHALT REMOVAL	3,315	= CYS.
BORROW	2,865	= CYS.
PAVEMENT REMOVAL	3,390	= CYS.
EXCAVATION, COMMON, UNDERCUT, UNDISTRIBUTED	2,148	= CYS.
UNDISTRIBUTED BORROW	2,685	= CYS.

NOTE: Undistributed Excavation & Borrow quantities are based on Geotechnical Report recommendations, see Geotechnical Report for more information.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

PLAN AND PROFILE
LINE "PR-A1" & "PR-A"

HORIZONTAL SCALE 1"=30'
VERTICAL SCALE 1"=10'

SHEETS 33 of 181
PROJECT NO.

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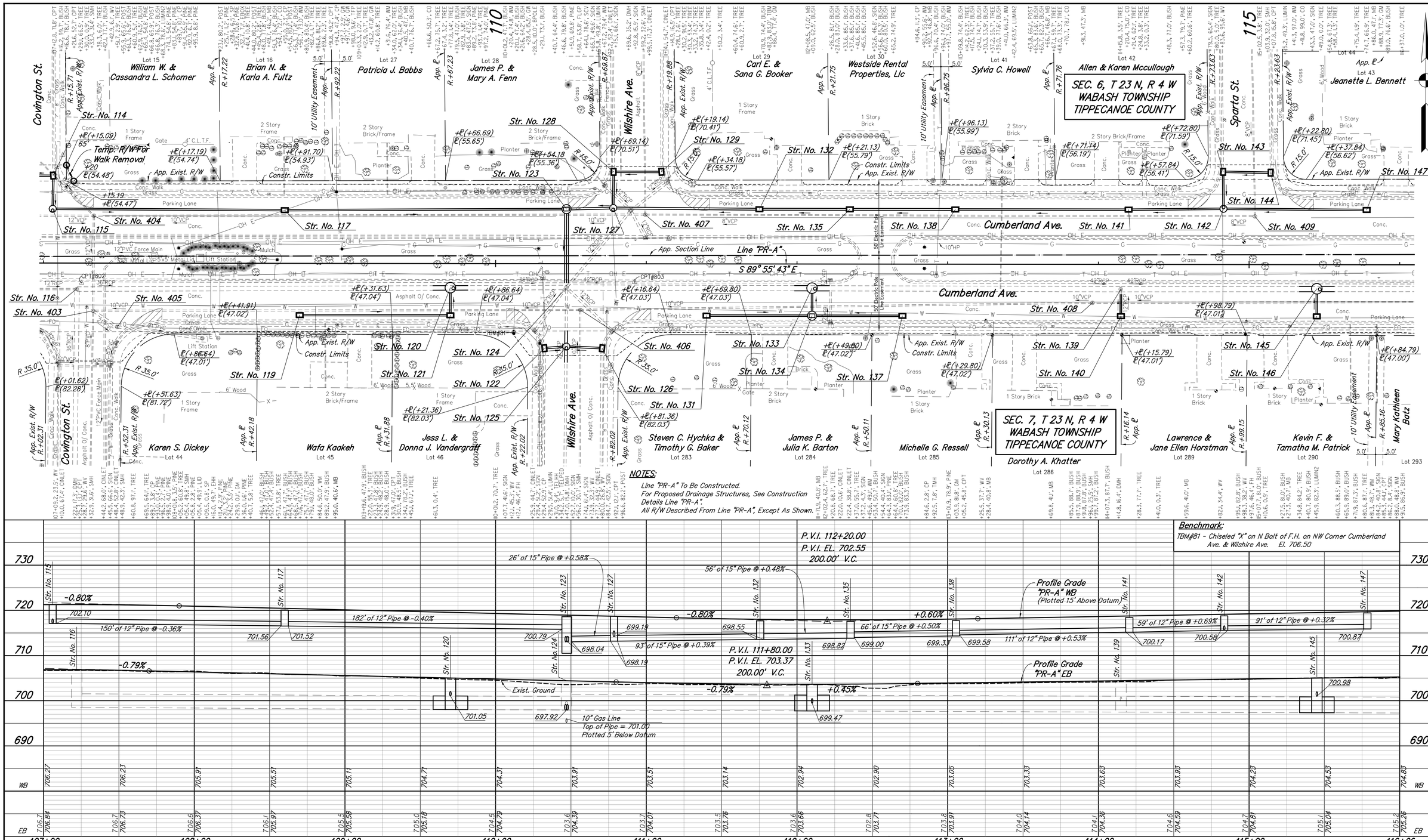

NOTES:

Line "PR-A" To Be Constructed.
For Proposed Drainage Structures, See Construction Details Line "PR-A".
All R/W Described From Line "PR-A", Except As Shown.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1"=30'	
		VERTICAL SCALE 1"=10'	
DESIGNED: NRM DRAWN: RJC	PLAN AND PROFILE LINE "PR-A"	SHEETS 34 of 181	
CHECKED: MJM CHECKED: MJM		PROJECT NO.	

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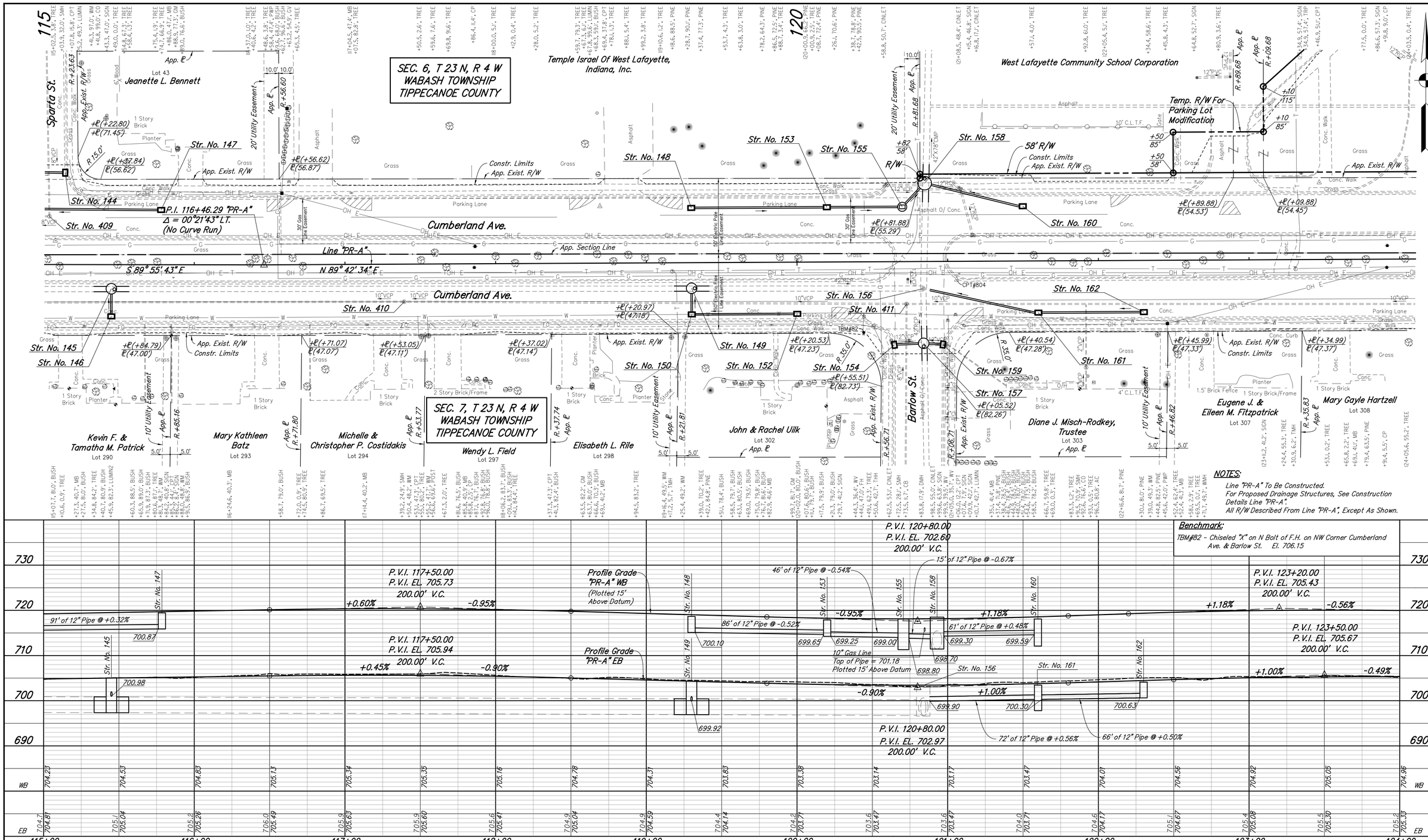


NOTES:

Line "PR-A" To Be Constructed.
For Proposed Drainage Structures, See Construction Details Line "PR-A".
All R/W Described From Line "PR-A", Except As Shown.

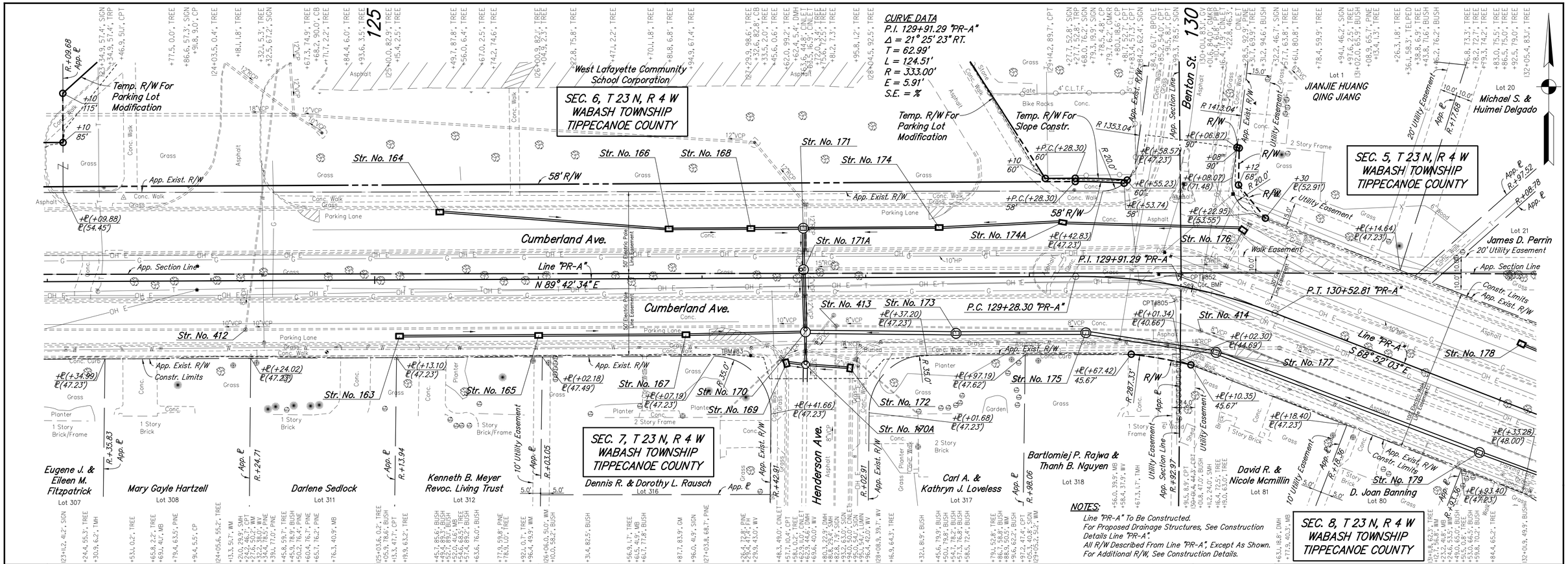
Benchmark:

TBM#82 - Chiseled "X" on N Bolt of F.H. on NW Corner Cumberland Ave. & Barlow St. El. 706.15

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1"=30'	
		VERTICAL SCALE 1"=10'	
DESIGNED: NRM	DRAWN: RJC	SHEETS 35 of 181	
CHECKED: MJM	CHECKED: MJM	PROJECT NO.	

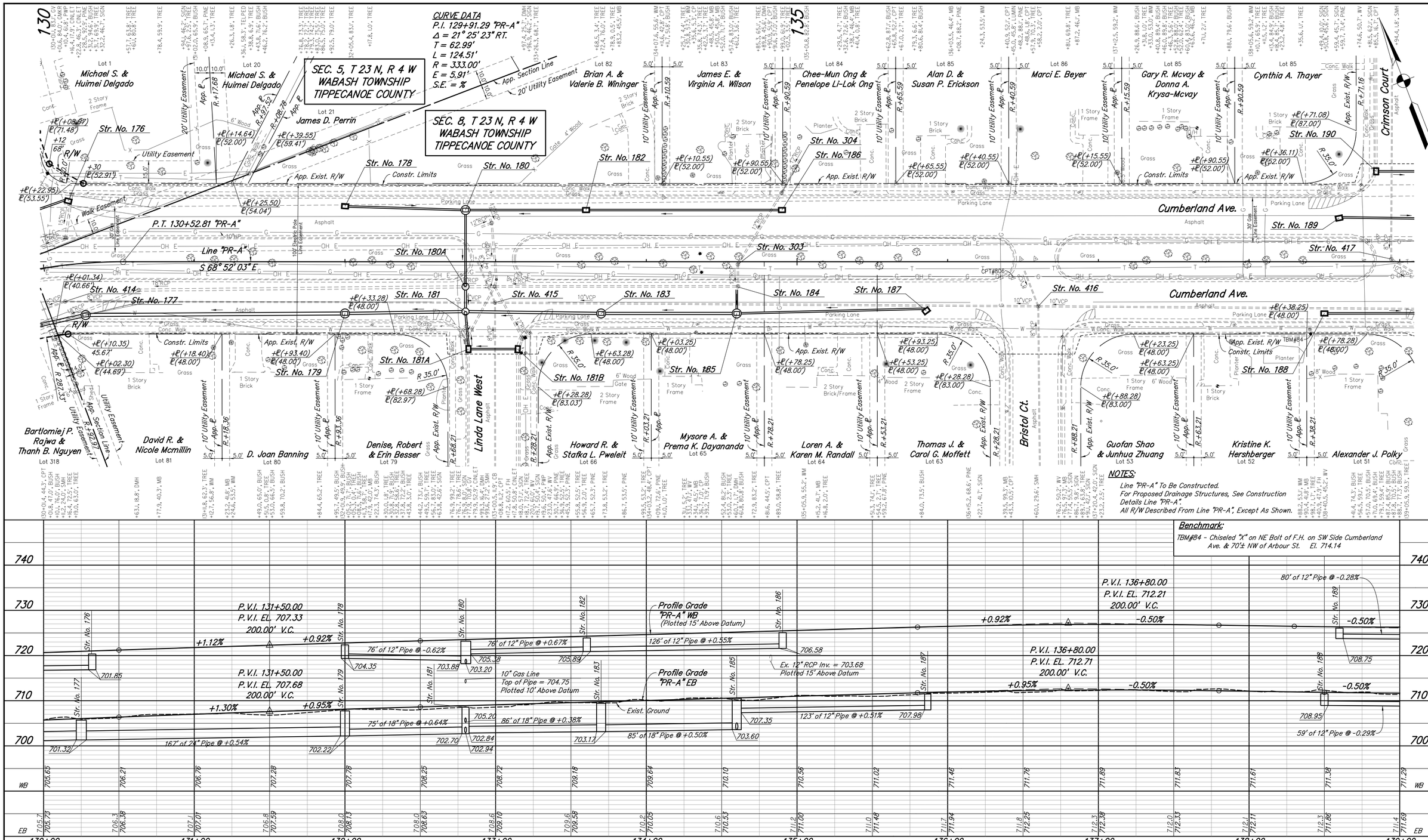
PLAN AND PROFILE
LINE "PR-A"

nmurphy 5/8/2014 10:24:38 AM P:*2013*00985*D. Drawings*201300985.RD.PP.PR-A.03.dgn



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1"=30'
DESIGNED: NRM DRAWN: RJC	PLAN AND PROFILE LINE "PR-A"	VERTICAL SCALE 1"=10'
CHECKED: MJM CHECKED: MJM		SHEETS 36 of 181
		PROJECT NO.

nmurphy 5/8/2014 10:24:39 AM P:*2013*00985*D. Drawings*201300985.RD.PP.PR-A.04.dgn



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

PLAN AND PROFILE LINE "PR-A"

HORIZONTAL SCALE 1"=30'

VERTICAL SCALE 1"=10'

SHEETS 37 of 181

PROJECT NO.

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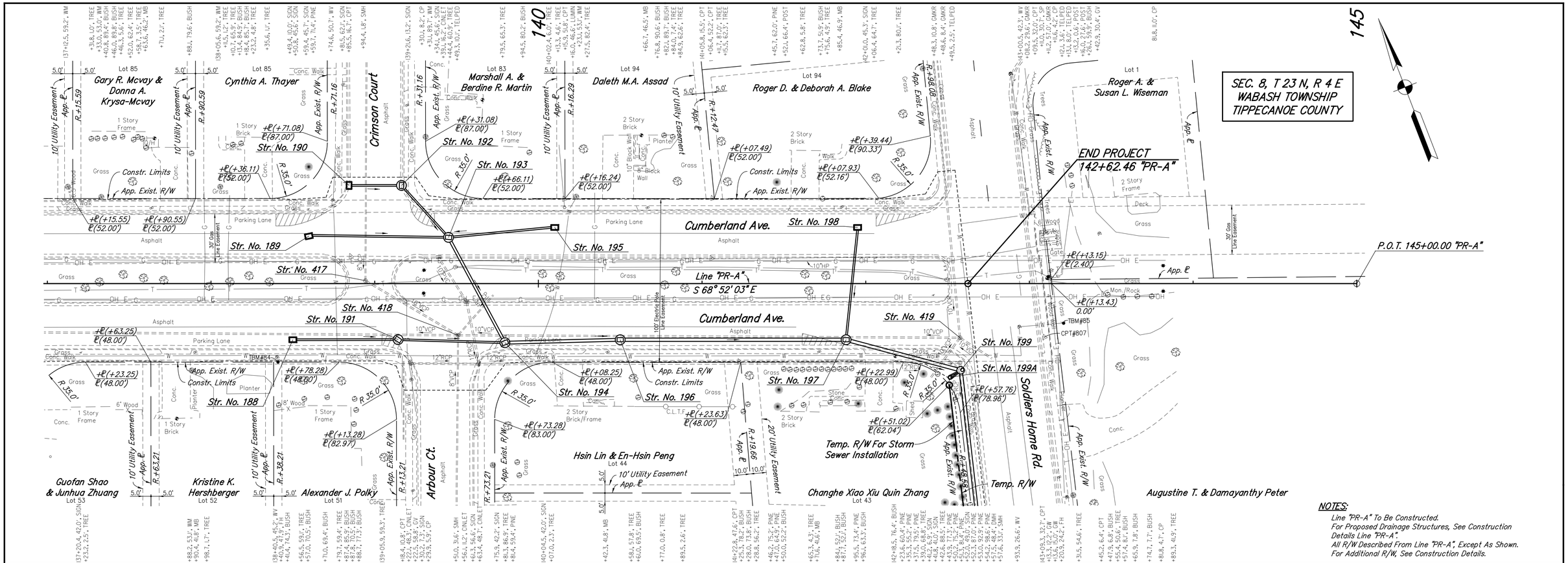
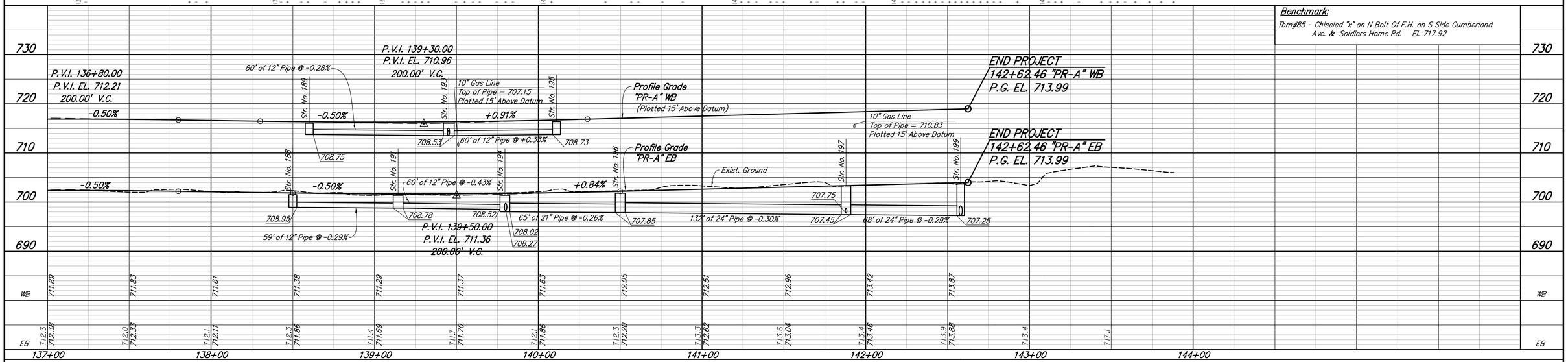


NOTES:

Line "PR-A" To Be Constructed.
For Proposed Drainage Structures, See Construction Details Line "PR-A".
All R/W Described From Line "PR-A", Except As Shown.
For Additional R/W, See Construction Details.

Benchmark:

Tbm#85 - Chiseled "x" on N Bolt Of F.H. on S Side Cumberland Ave. & Soldiers Home Rd. El. 717.92



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1"=30'
DESIGNED: NRM	DRAWN: RJC	PLAN AND PROFILE LINE "PR-A"	VERTICAL SCALE 1"=10'
CHECKED: MJM	CHECKED: MJM		SHEETS 38 of 181
			PROJECT NO.

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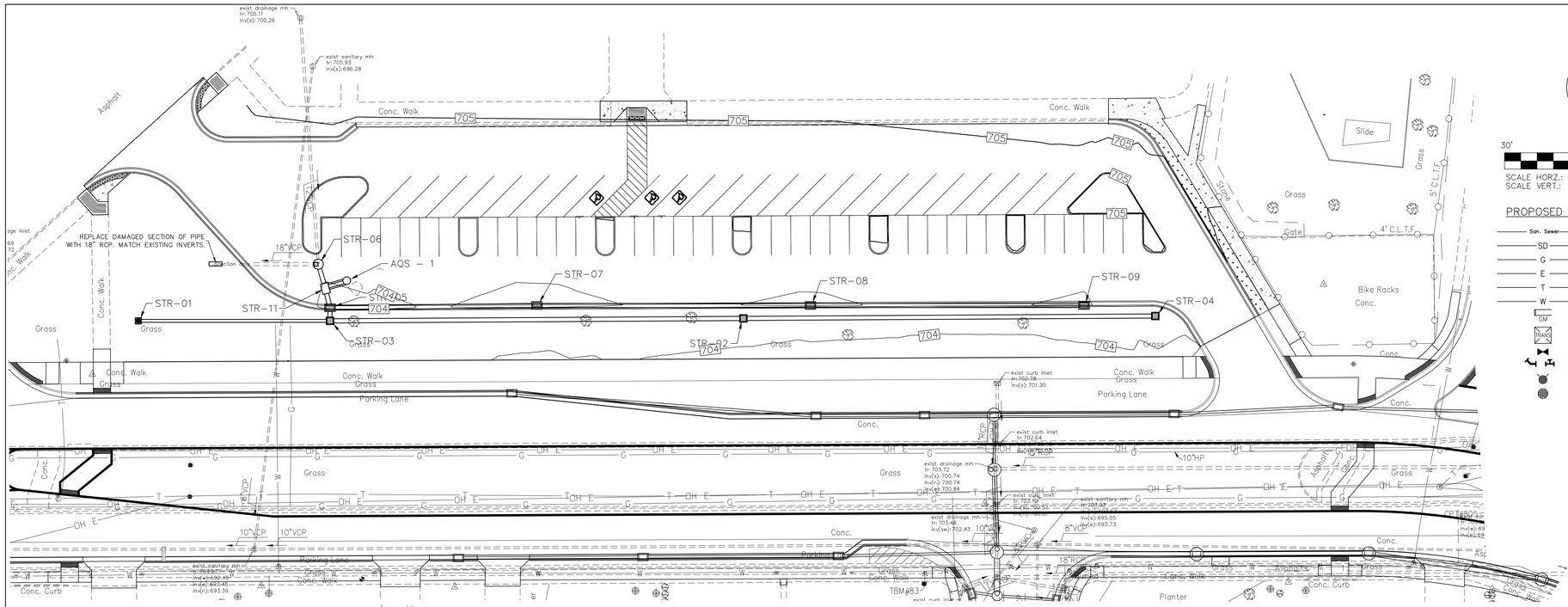
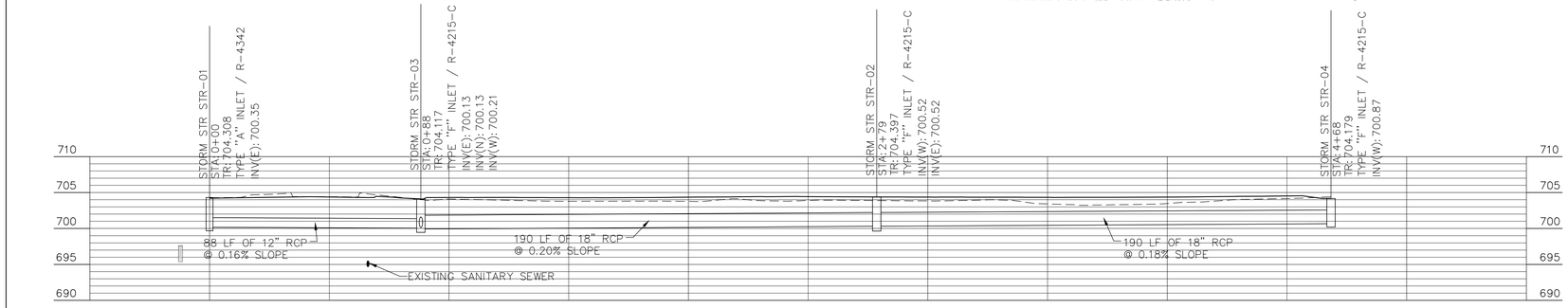
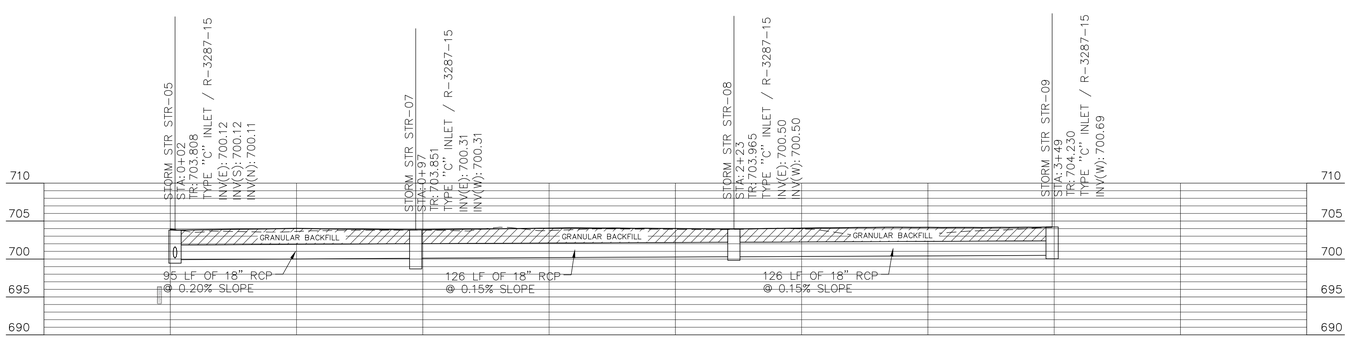
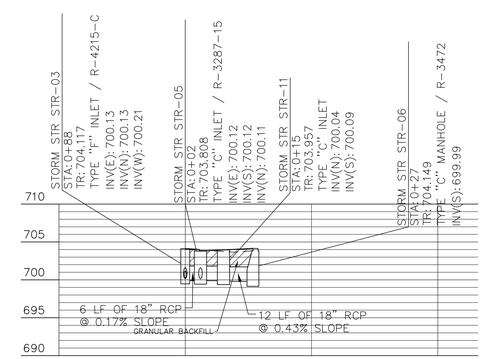








30' 0' 30' 60'

SCALE HORZ.: 1" = 30'
SCALE VERT.: 1" = 3'

PROPOSED UTILITY LEGEND

- San. Sewer — SANITARY SEWER LINE
- SD — STORM DRAIN (RCP SEWER)
- G — GAS LINE
- E — ELECTRIC LINE
- T — TELEPHONE LINE
- W — WATER LINE
- GM — GAS METER
- TRANS — ELECTRICAL TRANSFORMER
- VALVE
- PROPOSED WATER FITTINGS
- HYDRANT
- MANHOLE

EXISTING LEGEND

- BEEHIVE INLET
- CURB INLET
- STORM MANHOLE
- MANHOLE
- SANITARY MANHOLE
- SIGN
- TRAFFIC POLE
- TRAFFIC MANHOLE
- TRAFFIC PEDESTAL
- TRAFFIC HAND HOLE
- DETECTOR HOUSING
- POST
- UTILITY POLE
- POWER POLE
- LIGHT POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- ELECTRIC METER
- TRANSFORMER
- WATER VALVE
- FIRE HYDRANT
- STAND PIPE
- ohe — OVERHEAD ELECTRIC LINE
- e — BURIED ELECTRIC LINE
- w — BURIED WATER LINE
- ctv — BURIED TELEVISION LINE
- t — BURIED TELEPHONE LINE
- (##) — IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
- (XX) — IDENTIFIES INCONSISTENCIES IN LINES OF OCCUPATION PER SURVEYOR'S REPORT

GENERAL UTILITY NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM, SANITARY AND WATER LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOF ROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUB-GRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.

NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LAFAYETTE REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

CAUTION !!

THE 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: JLW | DRAWN: RCB
CHECKED: WAB | CHECKED: JLW

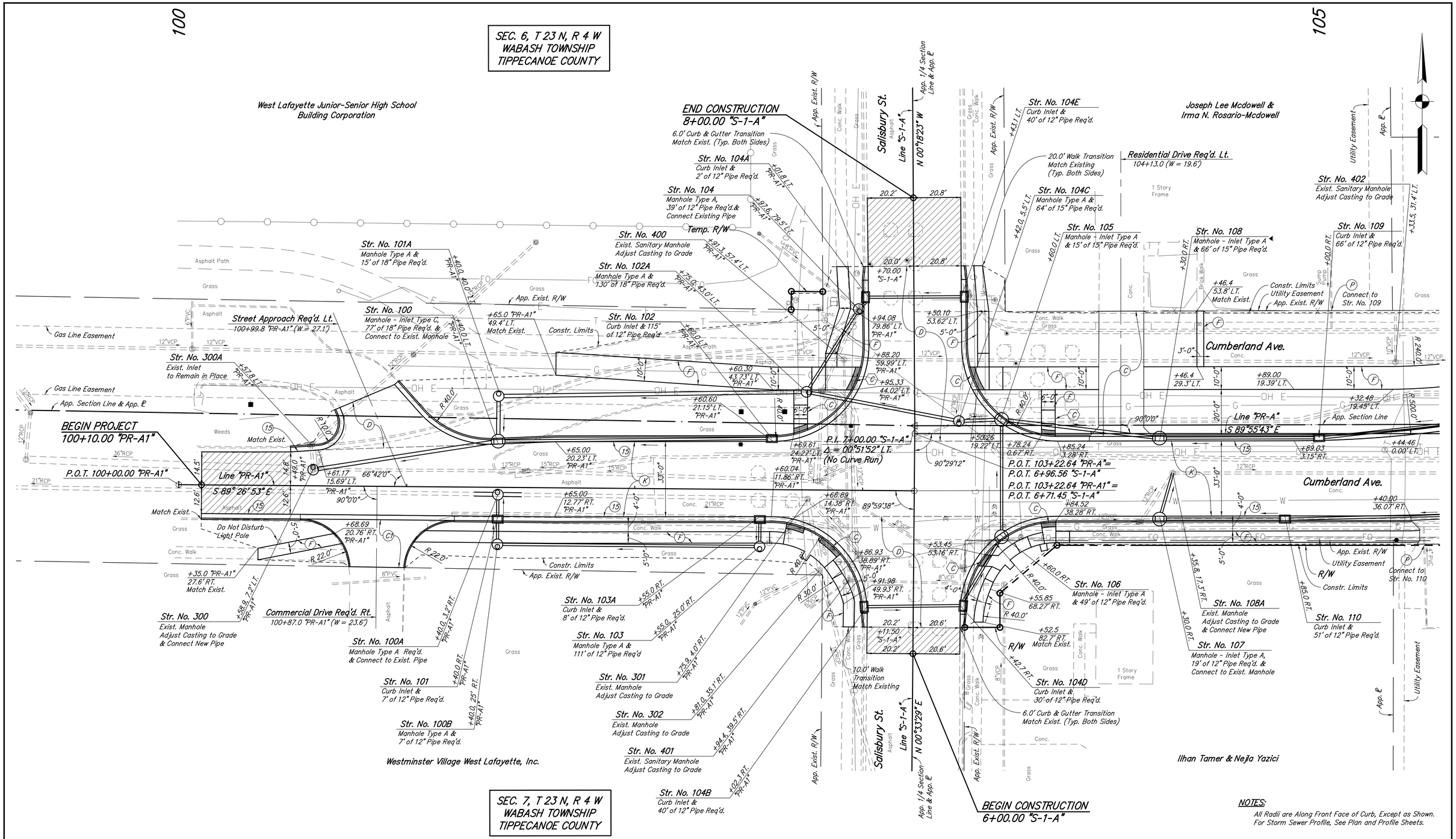
CITY OF WEST LAFAYETTE

STORM PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.

SURVEY BOOK	SHEETS
	39 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 - 2:09 PM EDITED BY: JWLKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.141.STMPP.DWG



NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (1.3) Box Curb with 6" Face
- (1.5) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 5.3, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 5.3, Base

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: RJC
CHECKED: MJM	CHECKED: MJM

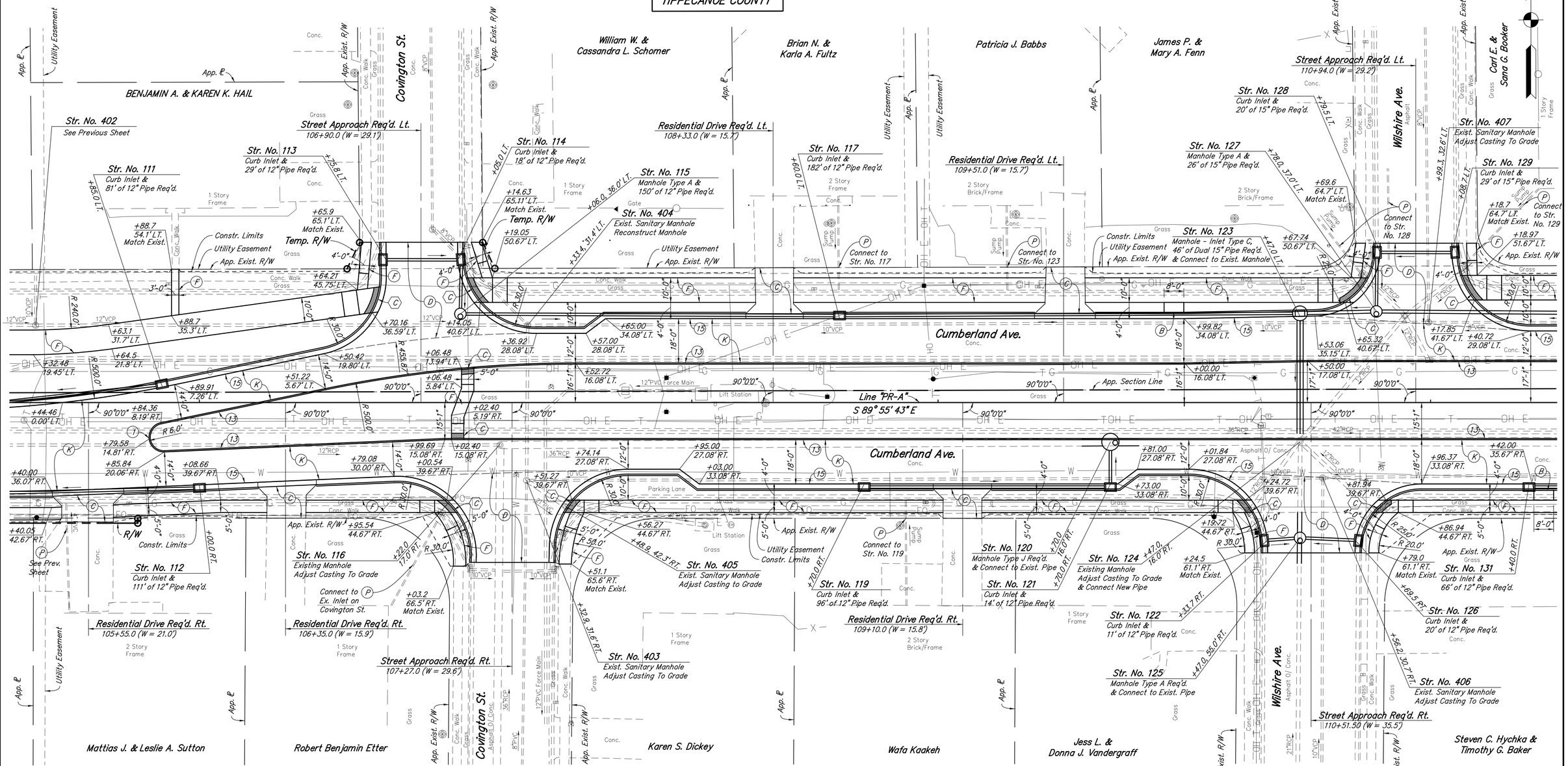
CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A1", "PR-A" & "S-1-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	40 of 181
PROJECT NO.	

nmurphy 5/8/2014 10:24:42 AM P:*2013*00985*0. Drawings*201300985.RD.CD.PR-A.01.dgn

SEC. 6, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY



SEC. 7, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 53, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 53, Base

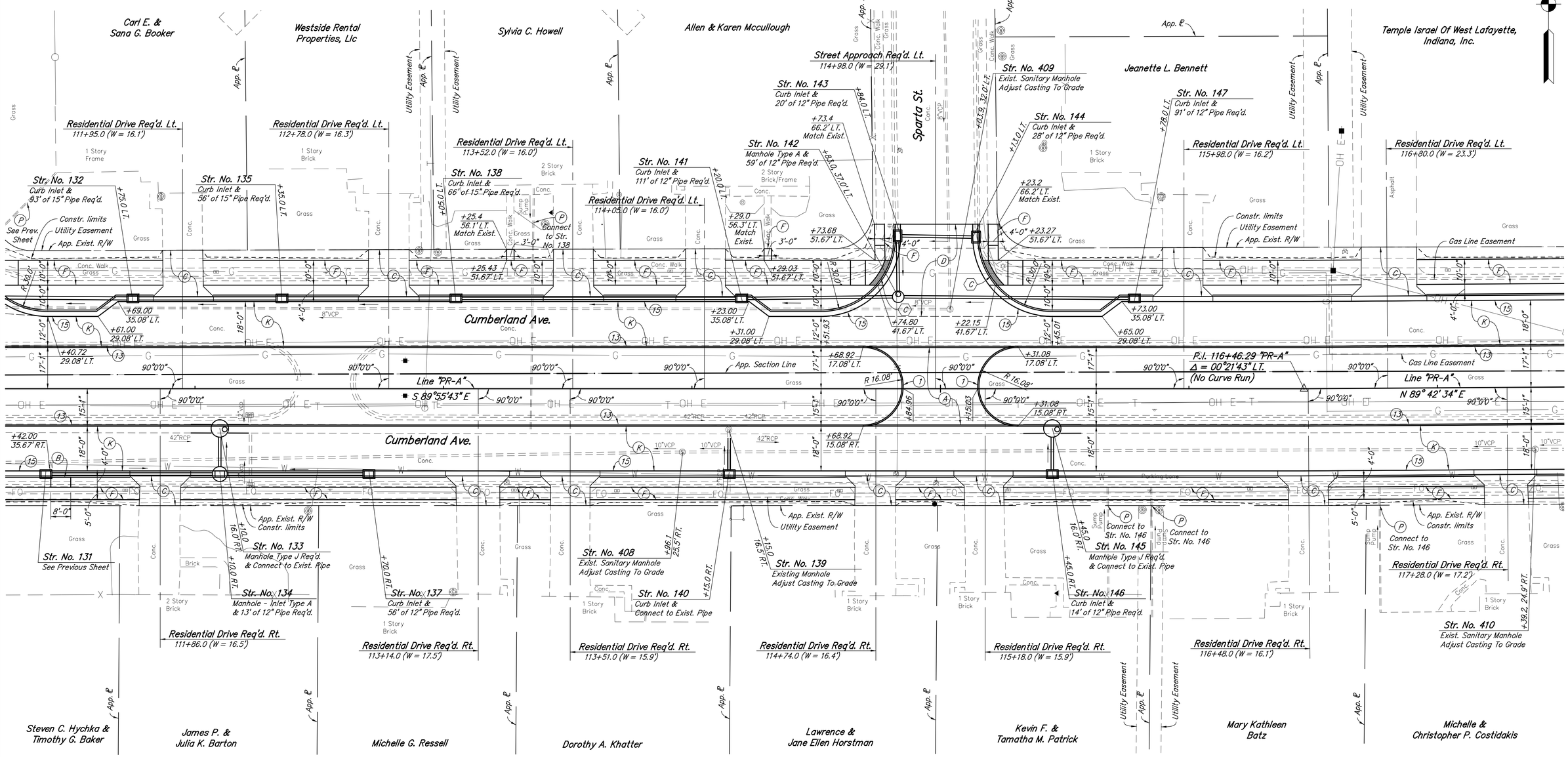
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NRM	DRAWN: RJC	
CHECKED: MJM	CHECKED: MJM	

CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	41 of 181
PROJECT NO.	

SEC. 6, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY



SEC. 7, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C') PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 53, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 53, Base

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

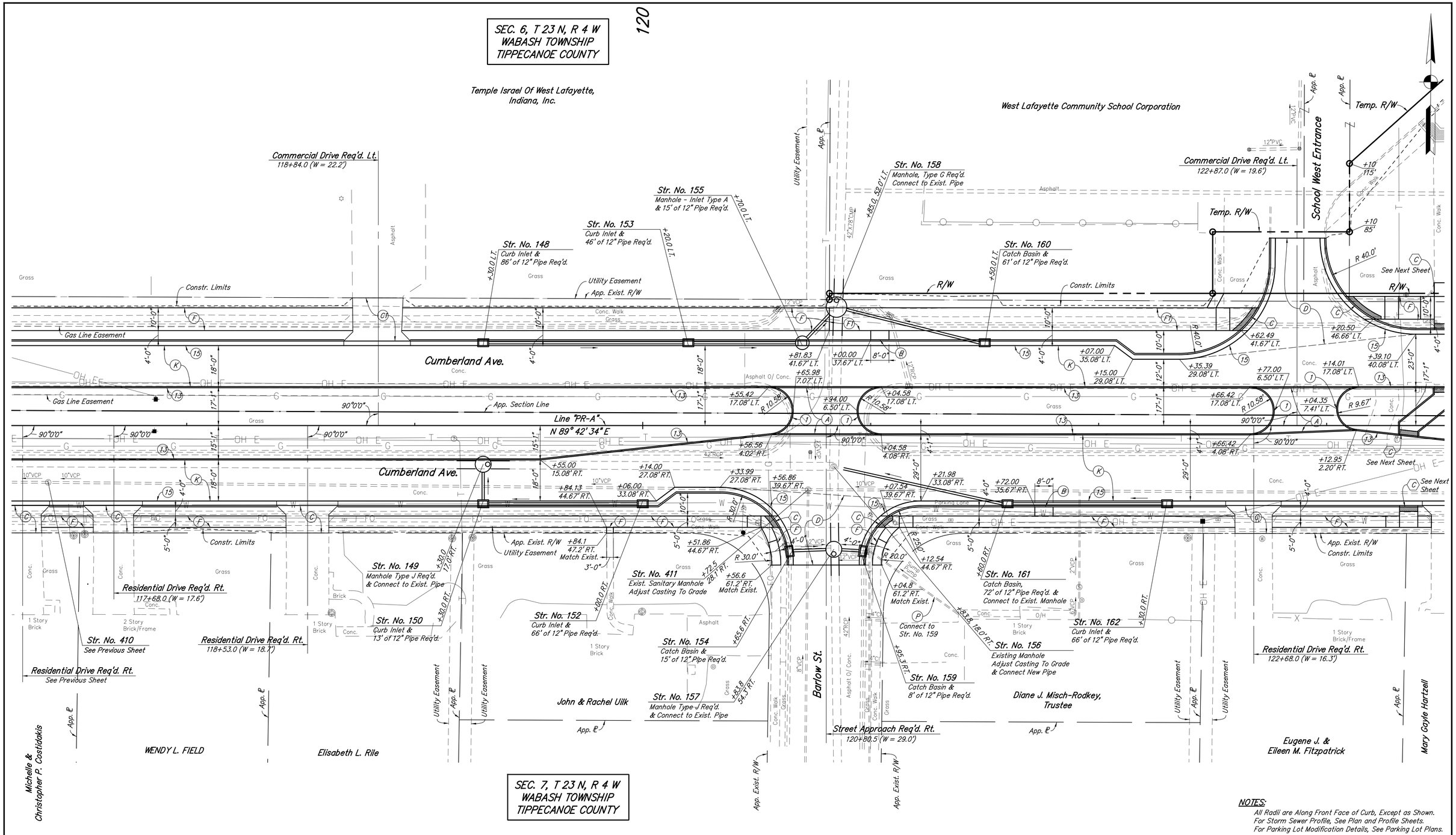
DESIGNED: NRM	DRAWN: RJC
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	42 of 181
PROJECT NO.	

SEC. 6, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY



SEC. 7, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.
For Parking Lot Modification Details, See Parking Lot Plans.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 53, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 53, Base

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

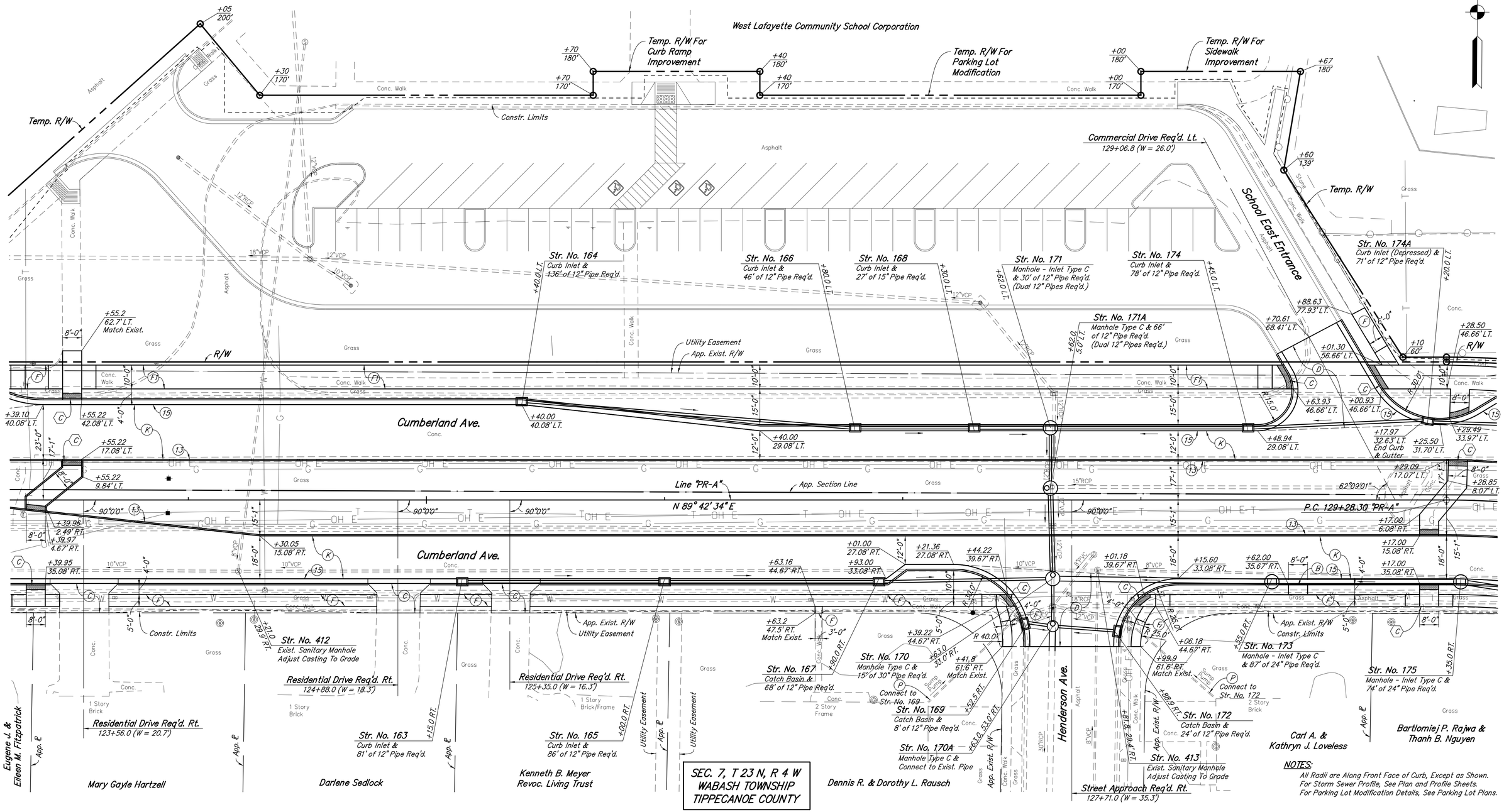
DESIGNED:	NRM	DRAWN:	RJC
CHECKED:	MJM	CHECKED:	MJM

CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	43 of 181
PROJECT NO.	

SEC. 6, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY



SEC. 7, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:
All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.
For Parking Lot Modification Details, See Parking Lot Plans.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (1.3) Box Curb with 6" Face
- (1.5) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 5.3, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 5.3, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 5.3, Base

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NRM	DRAWN: RJC	
CHECKED: MJM	CHECKED: MJM	

CITY OF WEST LAFAYETTE

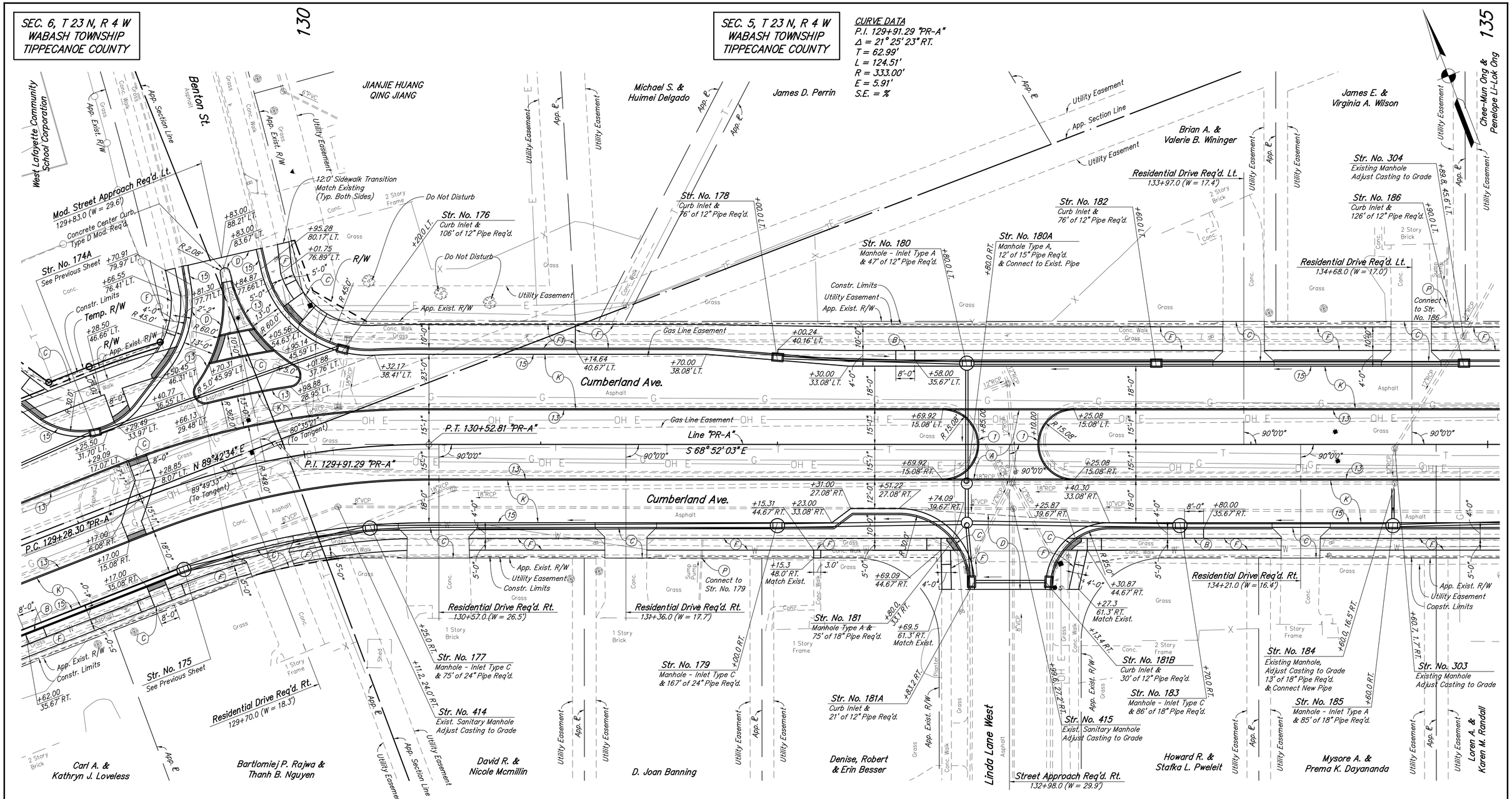
CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	44 of 181
PROJECT NO.	

SEC. 6, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

SEC. 5, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

CURVE DATA
P.I. 129+91.29 "PR-A"
Δ = 21° 25' 23" RT.
T = 62.99'
L = 124.51'
R = 333.00'
E = 5.91'
S.E. = %



SEC. 7, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

SEC. 8, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:
All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
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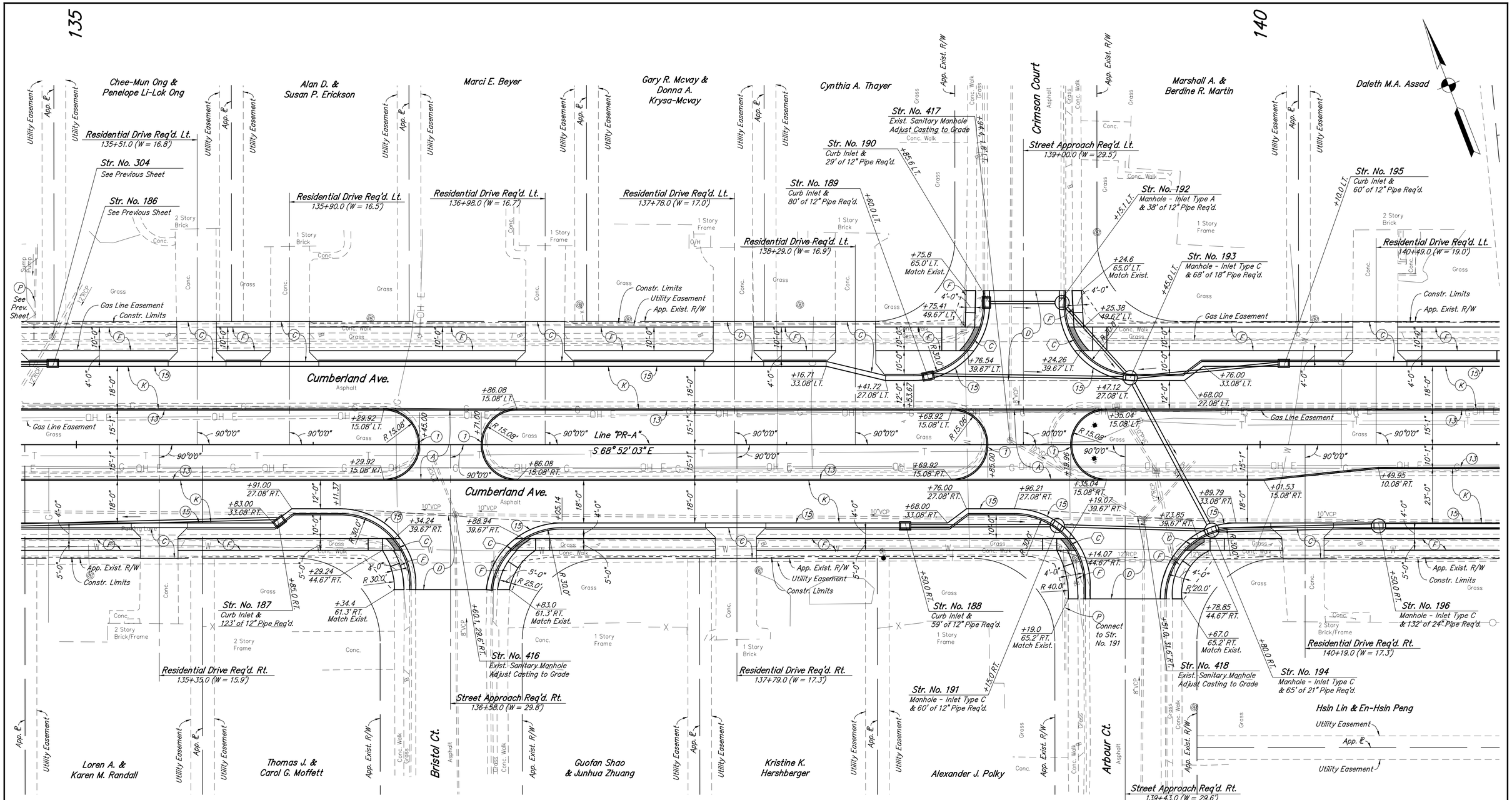
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NRM	DRAWN: RJC	
CHECKED: MJM	CHECKED: MJM	

CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	1"=20'
VERTICAL SCALE	N/A
SHEETS	45 of 181
PROJECT NO.	



SEC. 8, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 53, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 53, Base

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: NRM	DRAWN: RJC	
CHECKED: MJM	CHECKED: MJM	

CITY OF
WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	
1"=20'	
VERTICAL SCALE	
N/A	

SHEETS		
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PROJECT NO.		

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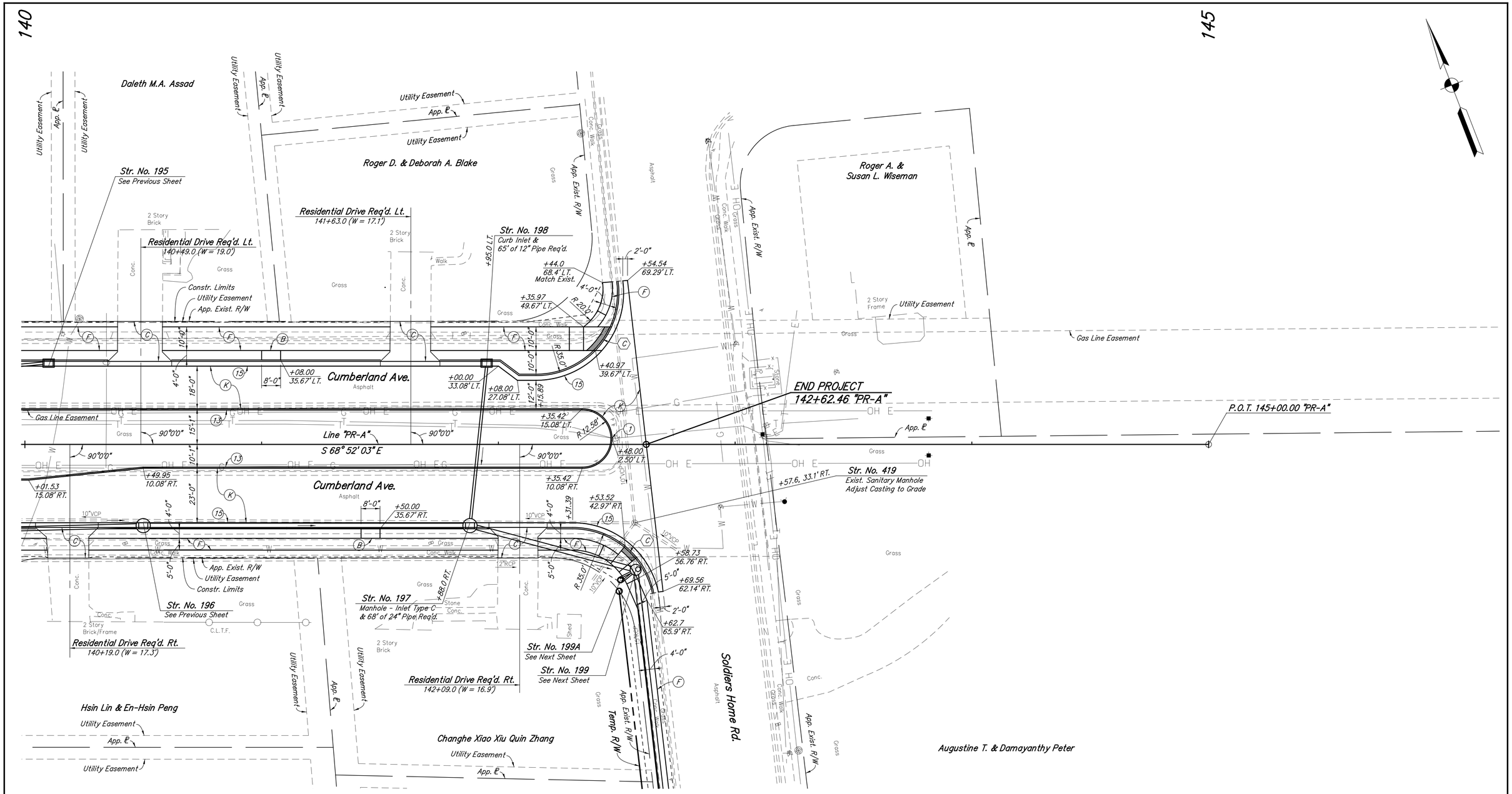


SEC. 8, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (13) Box Curb with 6" Face
- (15) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 53, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
- (P) Sump Pump Connection (See Miscellaneous Details)
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 53, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 53, Base

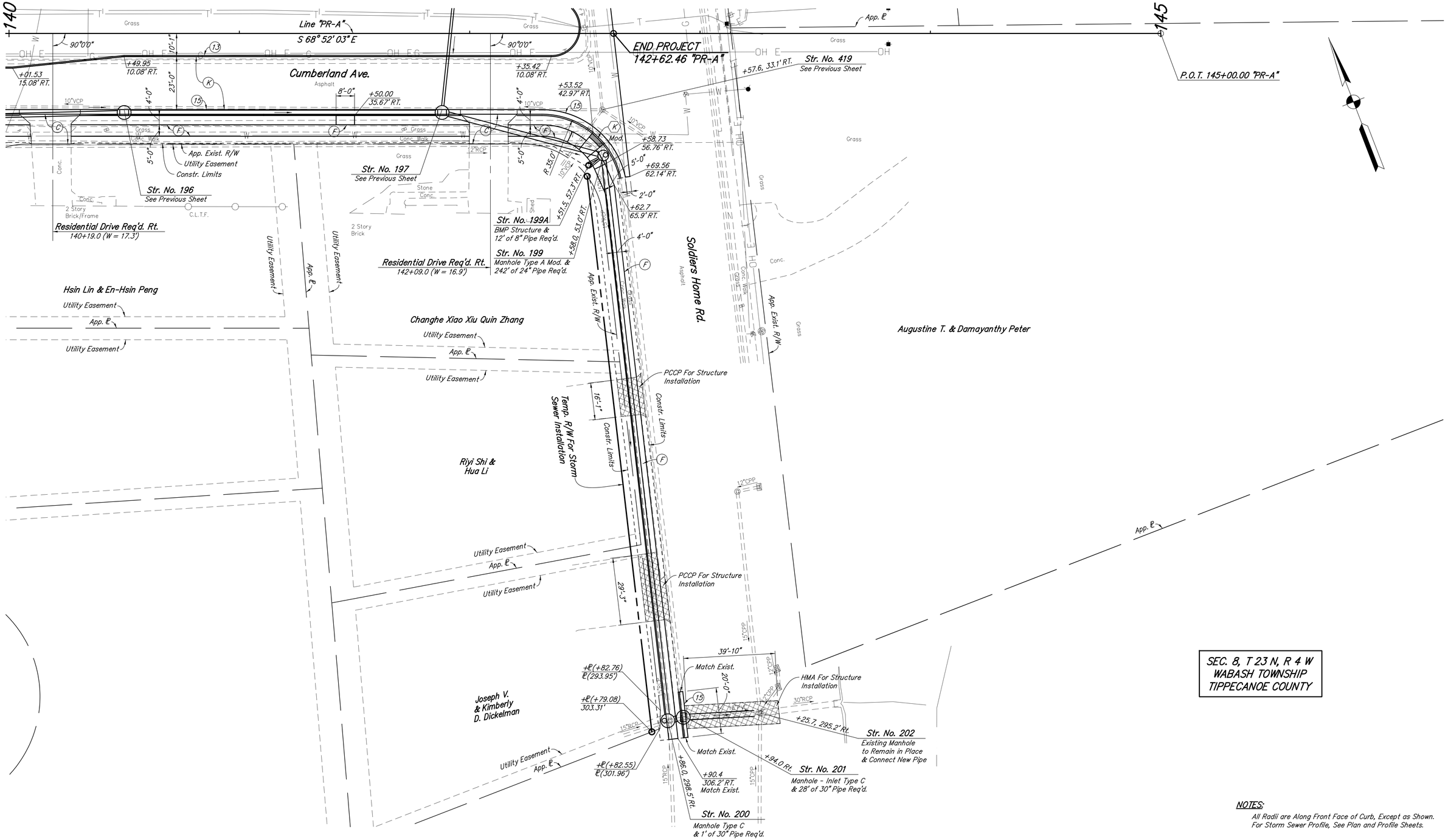
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: RJC
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	
1"=20'	
VERTICAL SCALE	
N/A	
SHEETS	
47 of 181	
PROJECT NO.	



SEC. 8, T 23 N, R 4 W
WABASH TOWNSHIP
TIPPECANOE COUNTY

NOTES:

All Radii are Along Front Face of Curb, Except as Shown.
For Storm Sewer Profile, See Plan and Profile Sheets.

LEGEND

- (1) Mower Ramp, See Miscellaneous Details
- (1.3) Box Curb with 6" Face
- (1.5) Combined Concrete Curb & Gutter, Type III
- (A) PCCP, 8" on 6" Compacted Aggregate No. 5.3, Base
- (B) Bus Stop Location
- (C) PCCP for Approaches, 6" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (C1) PCCP for Approaches, 9" Class "A" Concrete with 4" x 4" wire mesh or fiber reinforcing on Subgrade Treatment Type IIIA
- (D) HMA for Approaches, Type B (Full Depth HMA Pavement)
- (F1) Multi-Use Path (See Typical Section)
- (F) Sidewalk, Concrete, 4" (See Typical Section)
- (K) Full Depth HMA Pavement (See Typical Section)
- (C) Curb Ramp, Concrete (See Miscellaneous Details)
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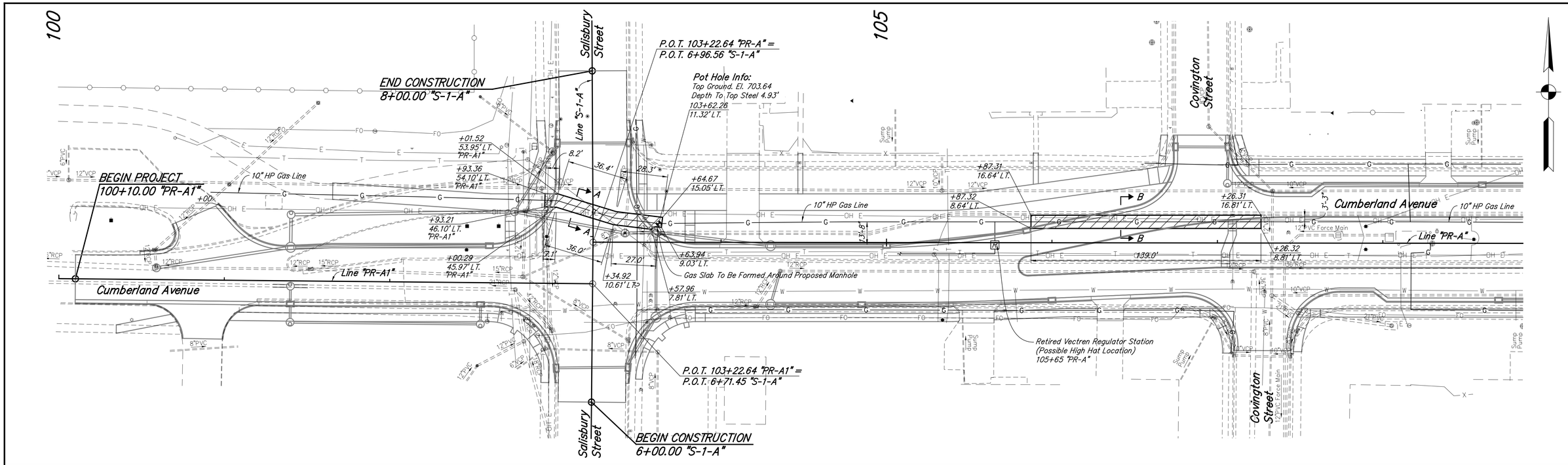
- Mill 1.5" & Resurface (See Typical Details)
- HMA For Structure Installation, Type B 165 #/SYS HMA Surface, Type B on HMA Base, Type B (Match Exist. Depth) on 6" Compacted Aggregate, No. 5.3, Base or PCCP For Structure Installation, 6" on 6" Compacted Aggregate, No. 5.3, Base

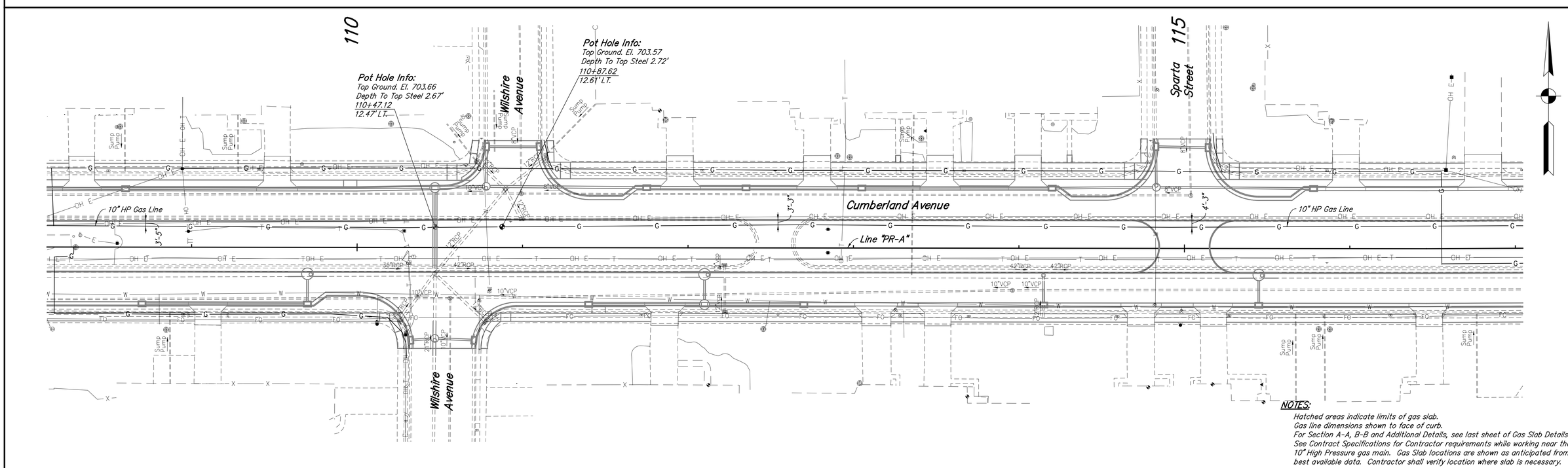
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	
DESIGNED: NRM	DRAWN: RJC		
CHECKED: MJM	CHECKED: MJM		

CITY OF
WEST LAFAYETTE

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE	
1"=20'	
VERTICAL SCALE	
N/A	
SHEETS	
48 of 181	
PROJECT NO.	

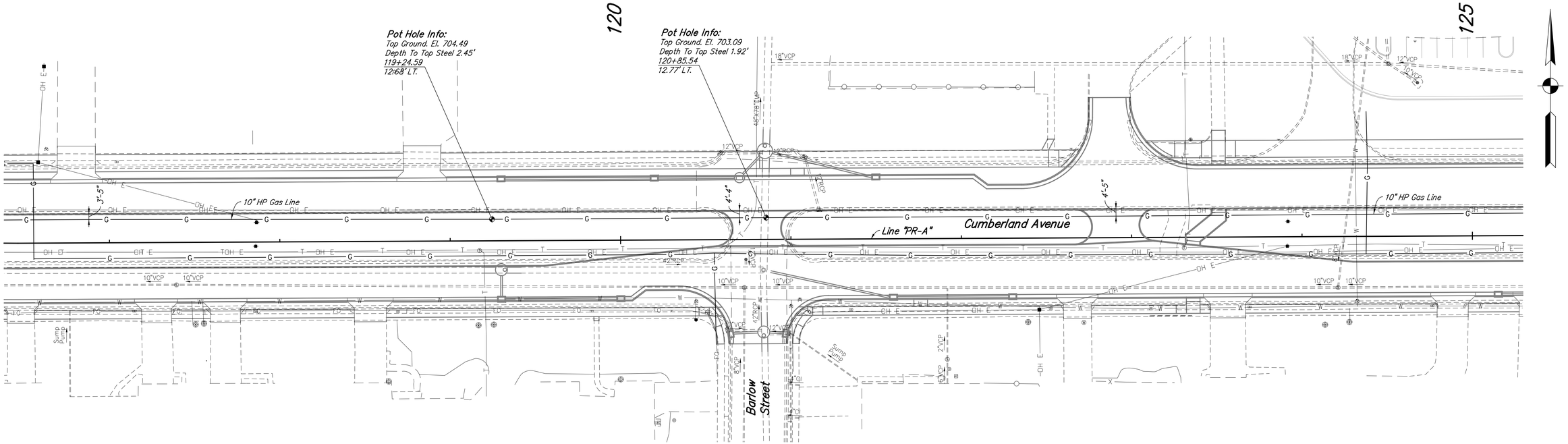


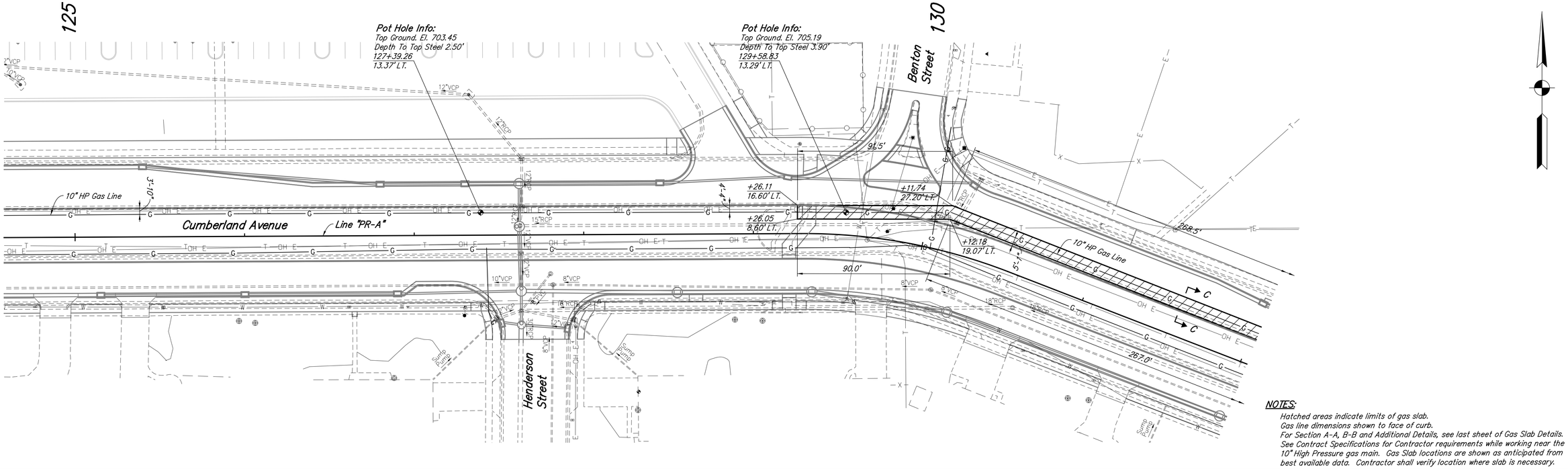


NOTES:

Hatched areas indicate limits of gas slab.
Gas line dimensions shown to face of curb.
For Section A-A, B-B and Additional Details, see last sheet of Gas Slab Details.
See Contract Specifications for Contractor requirements while working near the 10" High Pressure gas main. Gas Slab locations are shown as anticipated from best available data. Contractor shall verify location where slab is necessary.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 30'	
		VERTICAL SCALE	
DESIGNED: NRM DRAWN: RJC	GAS SLAB DETAILS LINE "PR-A1" & "PR-A"	SHEETS 49 of 181	
CHECKED: MJM CHECKED: MJM		PROJECT NO.	

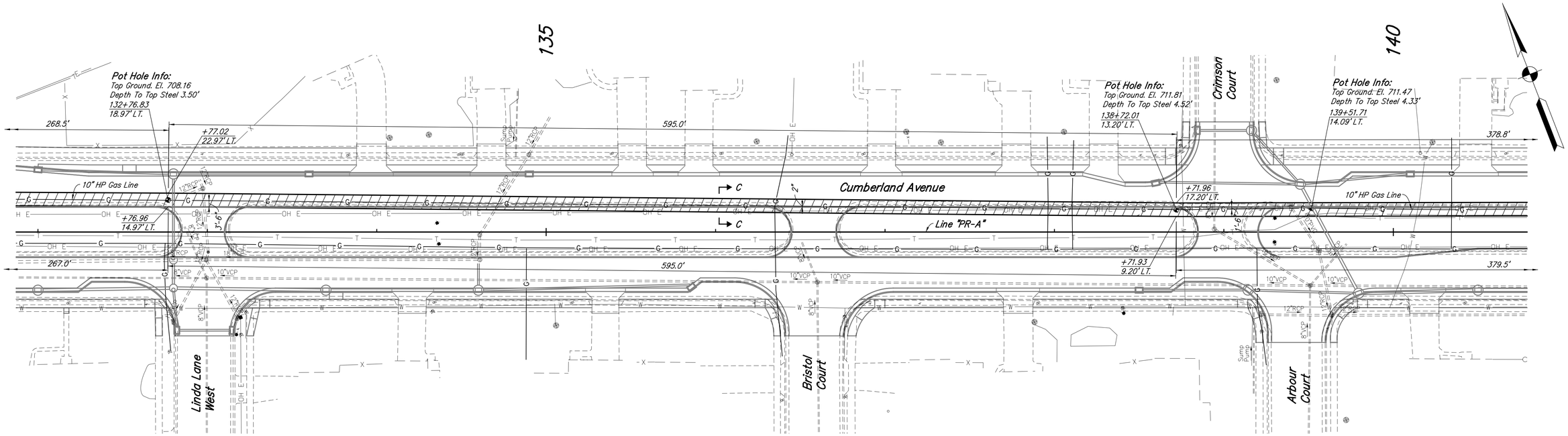


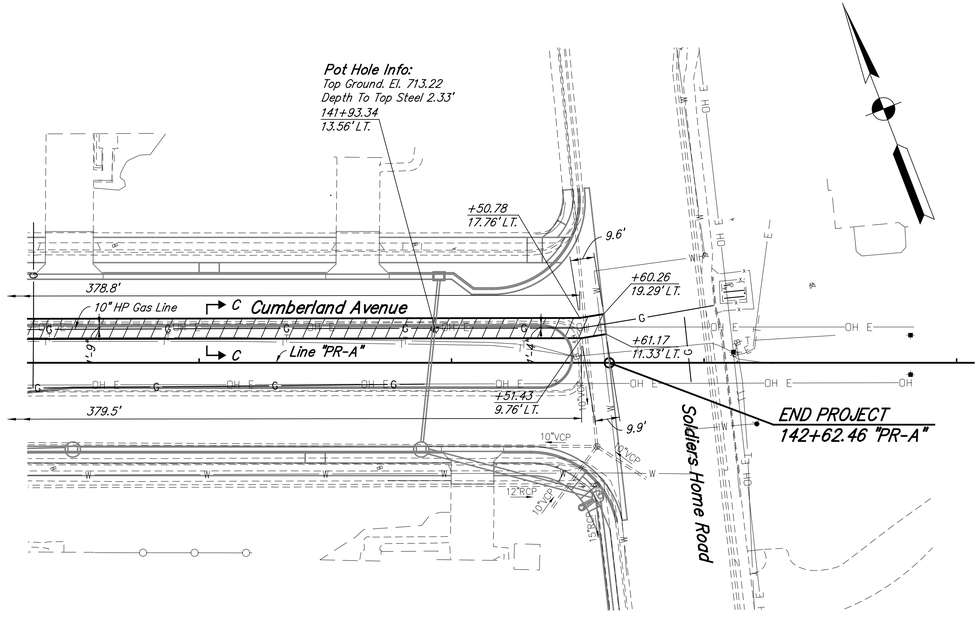


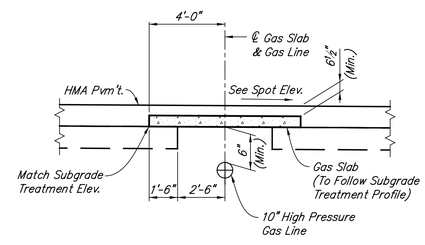
NOTES:

Hatched areas indicate limits of gas slab.
Gas line dimensions shown to face of curb.
For Section A-A, B-B and Additional Details, see last sheet of Gas Slab Details.
See Contract Specifications for Contractor requirements while working near the 10" High Pressure gas main. Gas Slab locations are shown as anticipated from best available data. Contractor shall verify location where slab is necessary.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 30'	
		VERTICAL SCALE	
DESIGNED: NRM / DRAWN: RJC	GAS SLAB DETAILS LINE "PR-A"	SHEETS	50 of 181
CHECKED: MJM / CHECKED: MJM		PROJECT NO.	

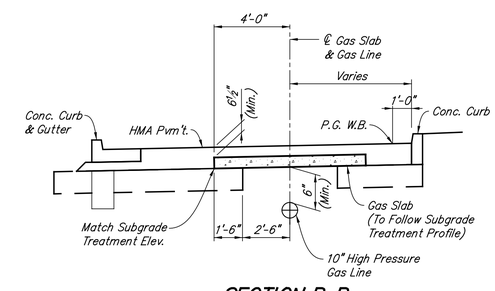






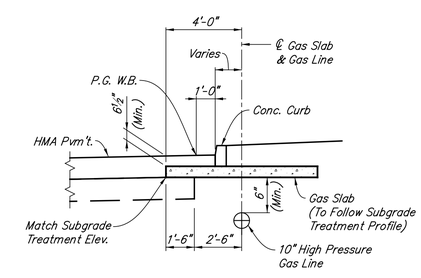
SECTION A-A

Scale: ¼" = 1'-0"



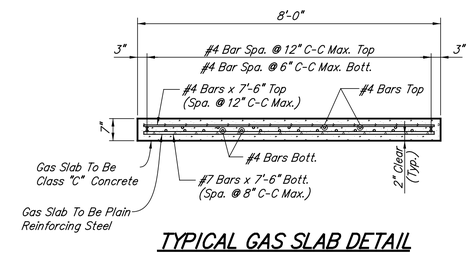
SECTION B-B

Scale: ¼" = 1'-0"



SECTION C-C

Scale: ¼" = 1'-0"



TYPICAL GAS SLAB DETAIL

Scale: ½" = 1'-0"

Min. Bar Lap	
#4 (Top)	2'-5"
#4 (Bott.)	1'-9"

NOTES:

Hatched areas indicate limits of gas slab.
Gas line dimensions shown to face of curb.
For Section A-A, B-B and Additional Details, see last sheet of Gas Slab Details.
See Contract Specifications for Contractor requirements while working near the 10" High Pressure gas main. Gas Slab locations are shown as anticipated from best available data. Contractor shall verify location where slab is necessary.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

GAS SLAB DETAILS
LINE "PR-A"

HORIZONTAL SCALE 1" = 30'
VERTICAL SCALE

SHEETS 51 of 181
PROJECT NO.

PROPOSED SITE LEGEND

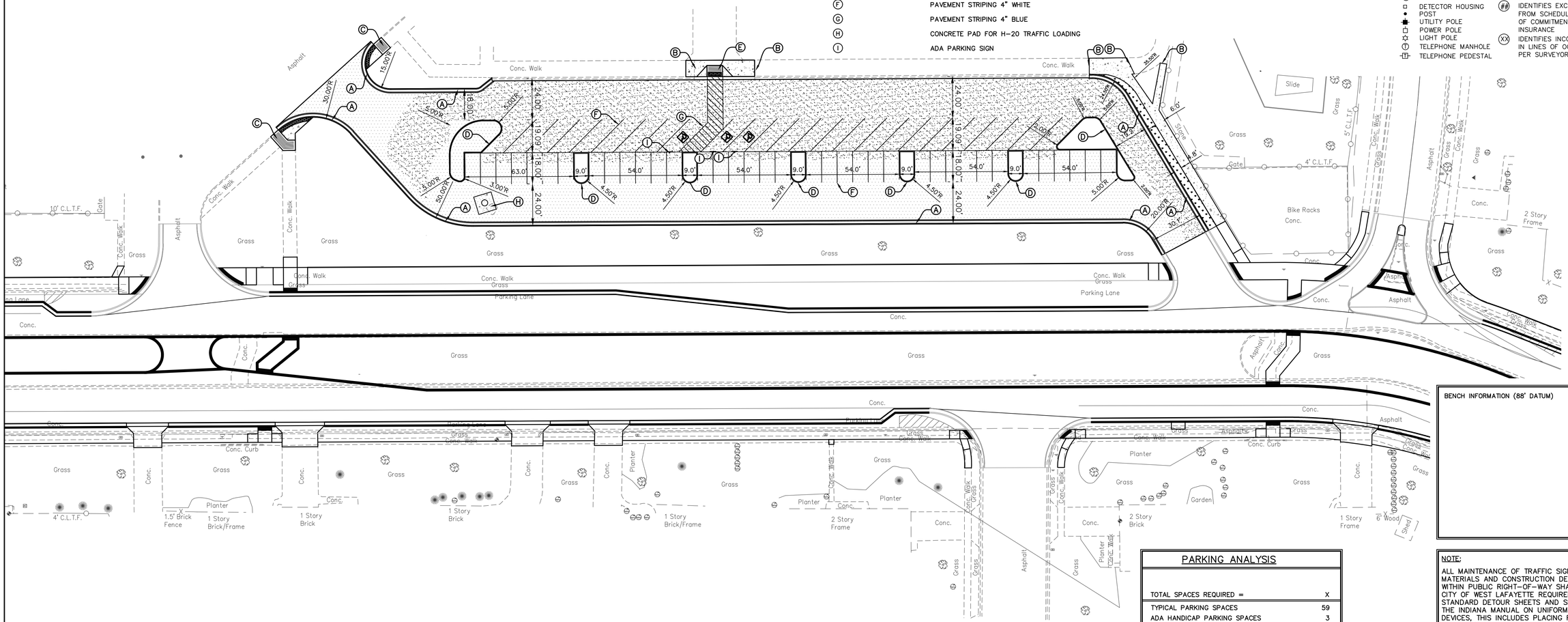
	MEDIUM DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE
	RESURFACED PAVEMENT
A	COMBINED CONCRETE CURB AND GUTTER TYPE III
B	FLUSH CONCRETE SIDEWALK
C	CONCRETE CURB RAMP – SEE DETAIL
D	6" CONCRETE CURB
E	CONCRETE CURB RAMP – SEE DETAIL
F	PAVEMENT STRIPING 4" WHITE
G	PAVEMENT STRIPING 4" BLUE
H	CONCRETE PAD FOR H-20 TRAFFIC LOADING
I	ADA PARKING SIGN

30' 0' 30' 60'

SCALE: 1" = 30'

EXISTING LEGEND

	BEEHIVE INLET		ELECTRIC METER
	CURB INLET		TRANSFORMER
D	STORM MANHOLE		WATER VALVE
G	MANHOLE		FIRE HYDRANT
S	SANITARY MANHOLE	o	STAND PIPE
	SIGN	ohe	OVERHEAD ELECTRIC LINE
	TRAFFIC POLE	e	BURIED ELECTRIC LINE
TR	TRAFFIC MANHOLE	w	BURIED WATER LINE
	TRAFFIC PEDESTAL	ctv	BURIED TELEVISION LINE
TR	TRAFFIC HAND HOLE	t	BURIED TELEPHONE LINE
	DETECTOR HOUSING	##	IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
	POST		
	UTILITY POLE		
	POWER POLE		
	LIGHT POLE	XX	IDENTIFIES INCONSISTENCIES IN LINES OF OCCUPATION PER SURVEYOR'S REPORT
T	TELEPHONE MANHOLE		
	TELEPHONE PEDESTAL		



BENCH INFORMATION (88' DATUM)

PARKING ANALYSIS

TOTAL SPACES REQUIRED =	X
TYPICAL PARKING SPACES	59
ADA HANDICAP PARKING SPACES	3
TOTAL PROPOSED PARKING	62

NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LAFAYETTE REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. CONTRACTOR TO VERITY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

CAUTION !!

THE 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

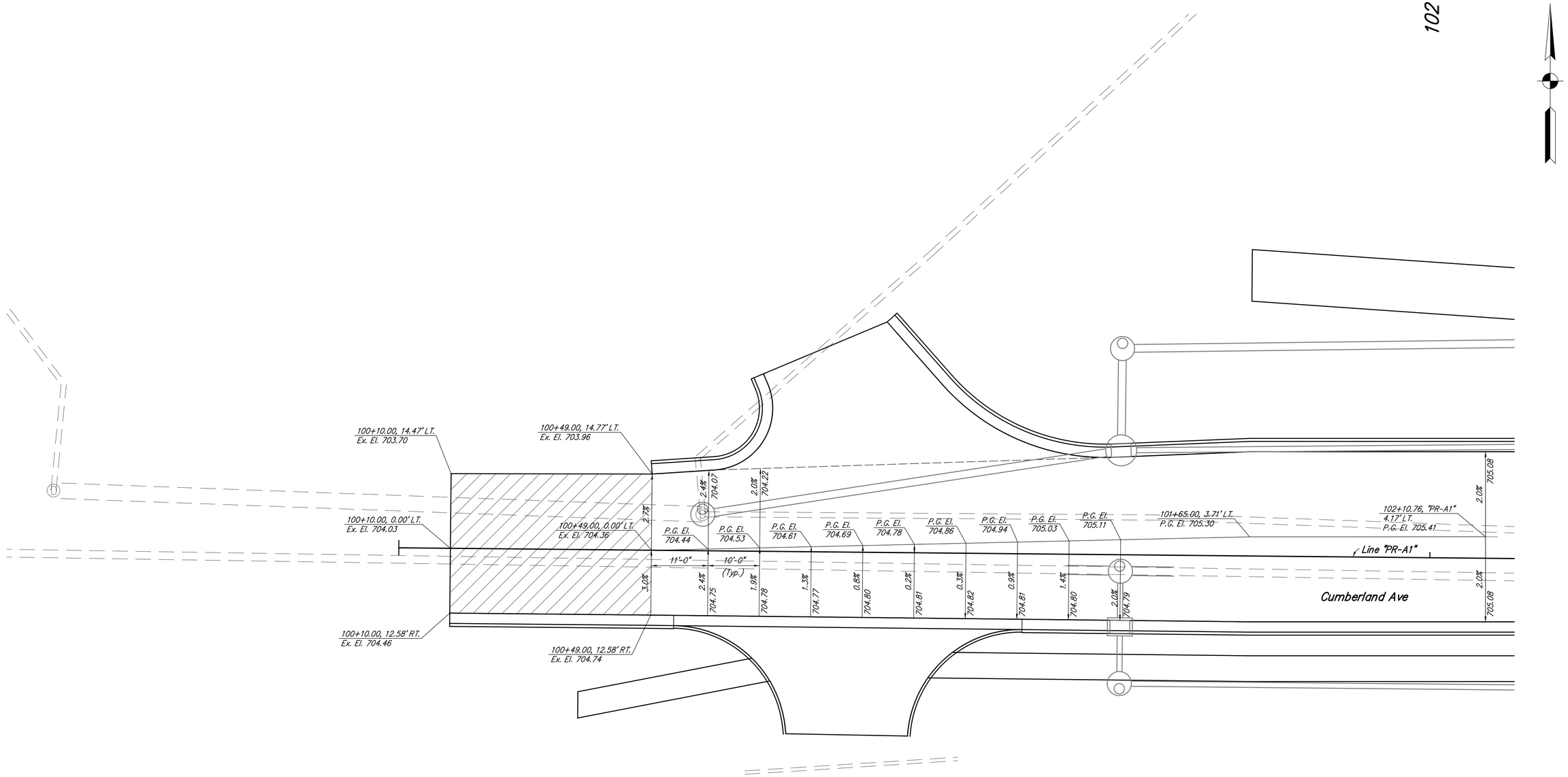
DESIGNED: JLW DRAWN: RCB
CHECKED: WAB CHECKED: JLW

CITY OF WEST LAFAYETTE

SITE PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
	52 of 181
CONTRACT	PROJECT NO.

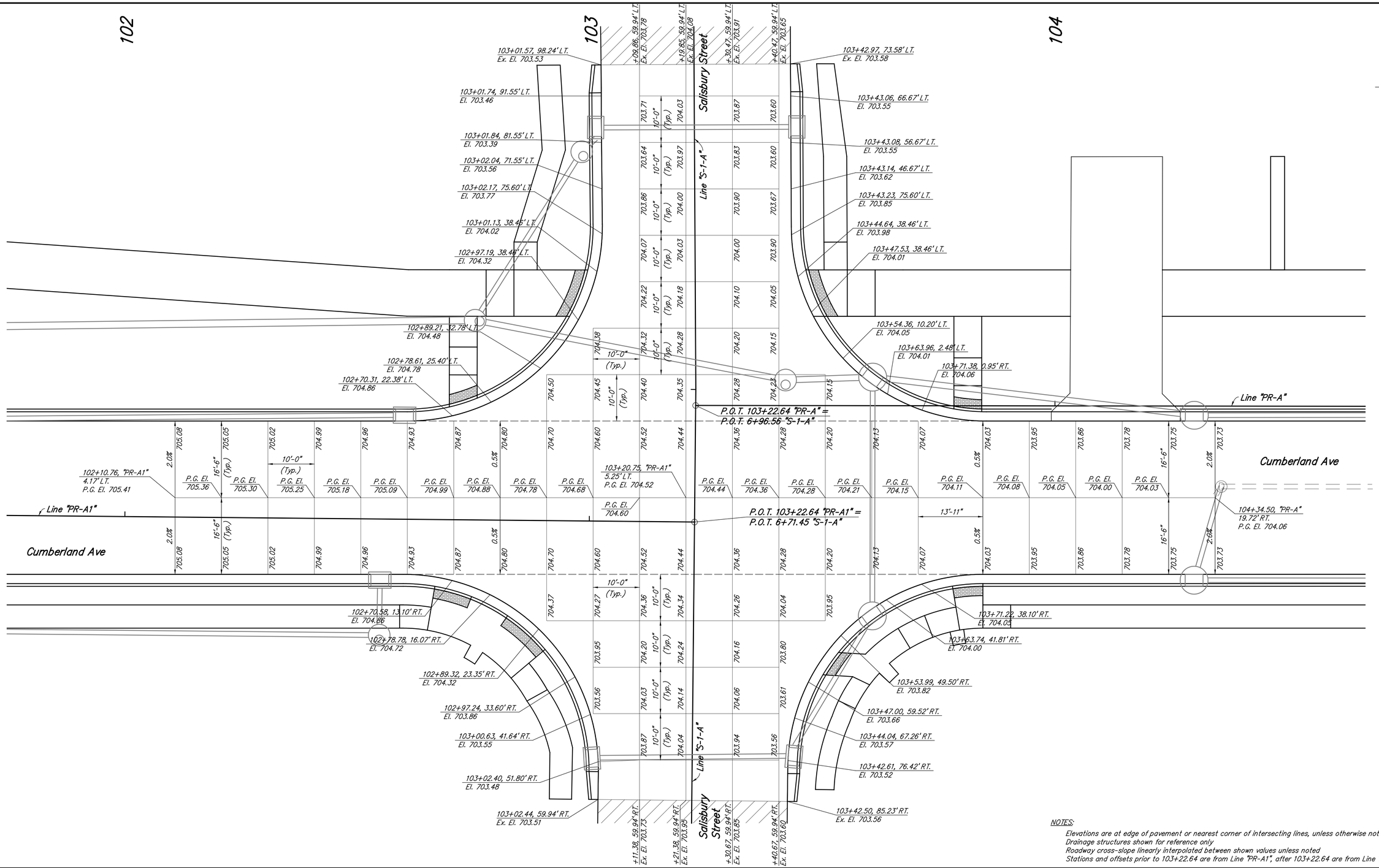
PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 – 5:12 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.139.SP.DWG



NOTES:

Elevations are at edge of pavement or nearest corner of intersecting lines, unless otherwise noted
Drainage structures shown for reference only
Roadway cross-slope linearly interpolated between shown values unless noted
Stations and offsets are from Line "PR-A1"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'	
		VERTICAL SCALE	
DESIGNED: NRM DRAWN: NRM	SPOT ELEVATION DETAILS		SHEETS 53 of 181
CHECKED: MJM CHECKED: MJM			PROJECT NO.



NOTES:

Elevations are at edge of pavement or nearest corner of intersecting lines, unless otherwise noted
Drainage structures shown for reference only
Roadway cross-slope linearly interpolated between shown values unless noted
Stations and offsets prior to 103+22.64 are from Line "PR-A1", after 103+22.64 are from Line "PR-A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'	
		VERTICAL SCALE	
DESIGNED: NRM DRAWN: NRM	SPOT ELEVATION DETAILS	SHEETS 54 of 181	
CHECKED: MJM CHECKED: MJM		PROJECT NO.	

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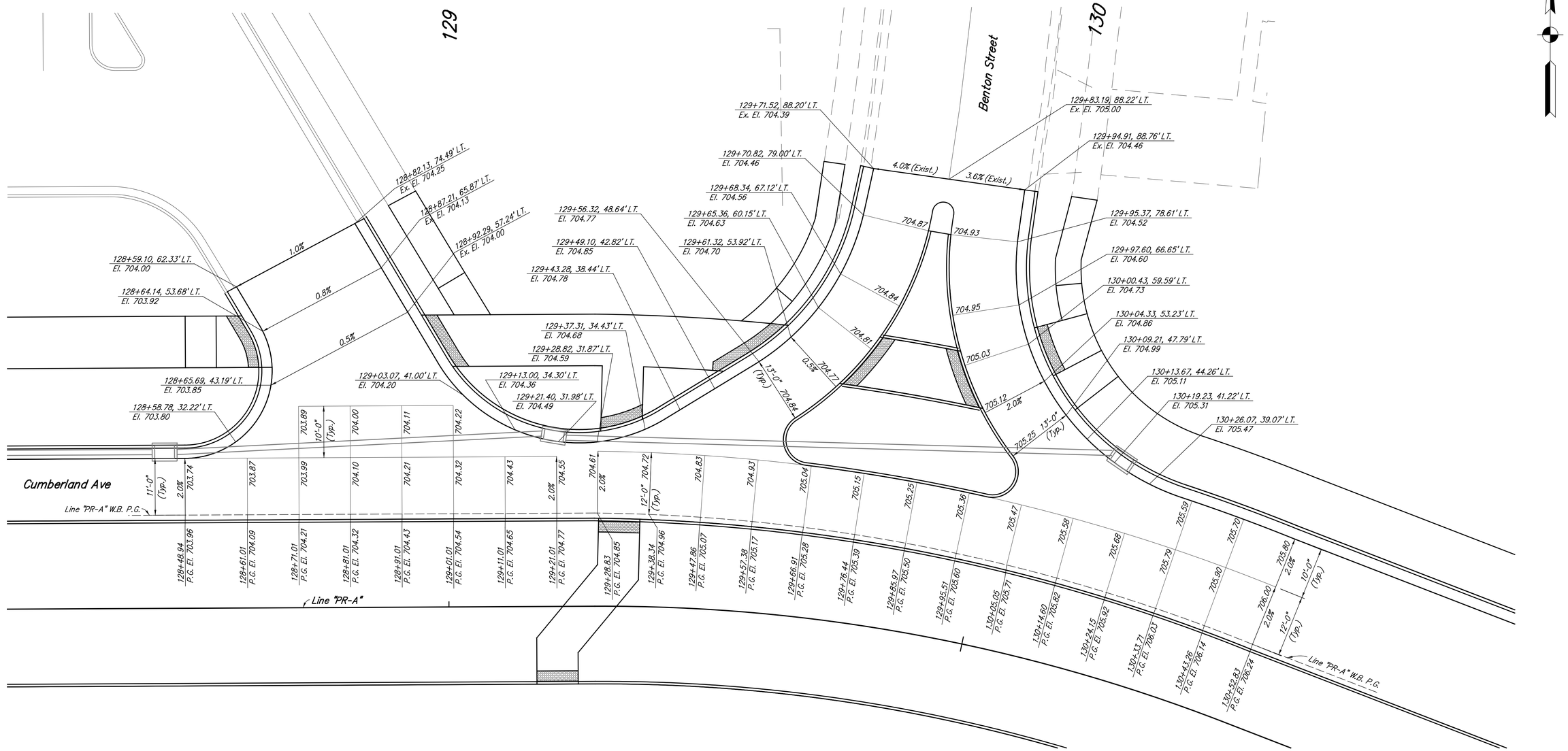

NOTES:

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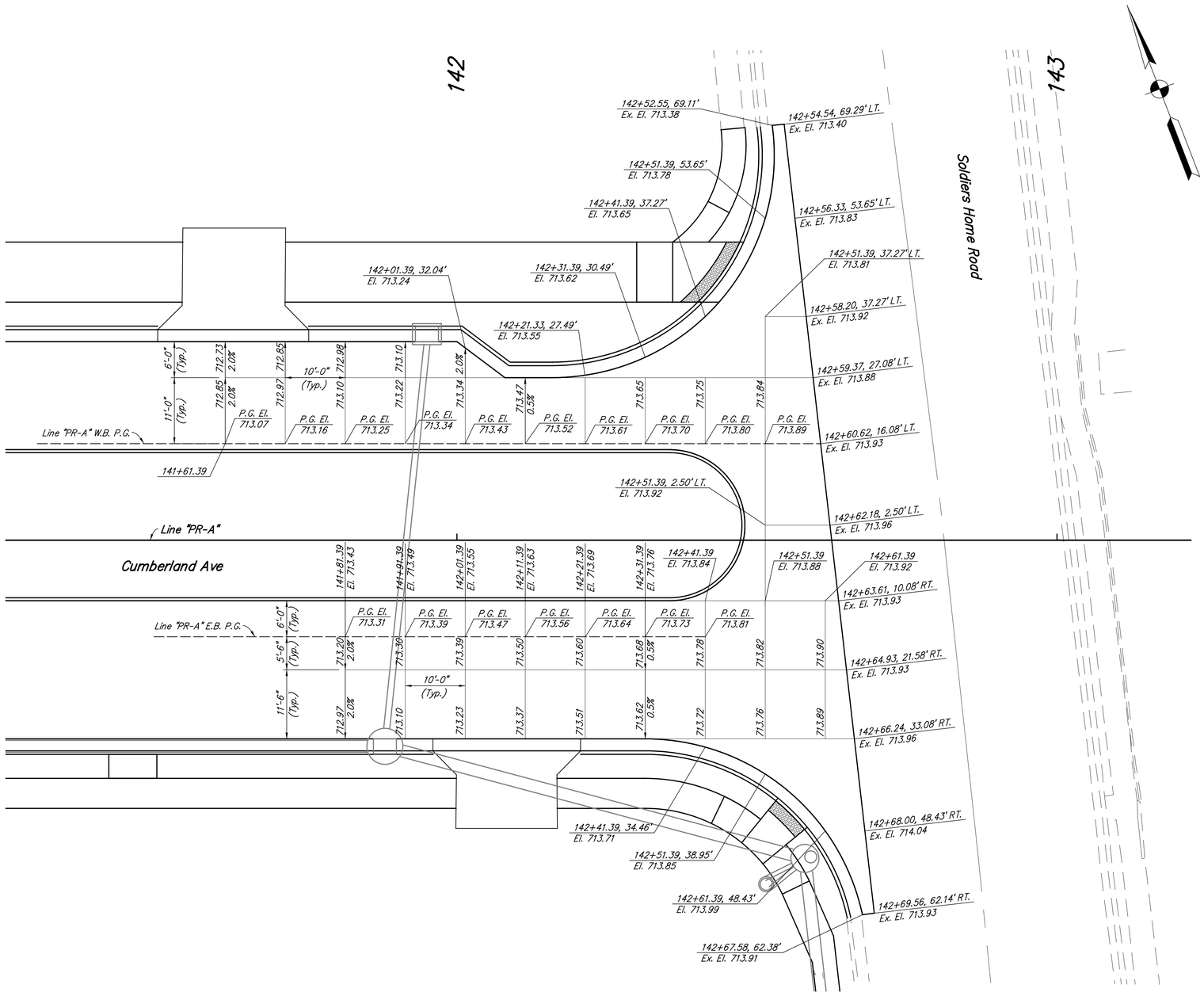
Roadway cross-slope linearly interpolated between shown values unless noted
Stations and offsets are from Line "PR-A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'	
		VERTICAL SCALE	
DESIGNED: NRM / DRAWN: NRM	SPOT ELEVATION DETAILS	SHEETS	55 of 181
CHECKED: MJM / CHECKED: MJM		PROJECT NO.	



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Roadway cross-slope linearly interpolated between shown values unless noted
Stations and offsets from Line "PR-A"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'	
		VERTICAL SCALE	
DESIGNED: NRM DRAWN: NRM	SPOT ELEVATION DETAILS	SHEETS 56 of 181	
CHECKED: MJM CHECKED: MJM		PROJECT NO.	

PROPOSED GRADING LEGEND

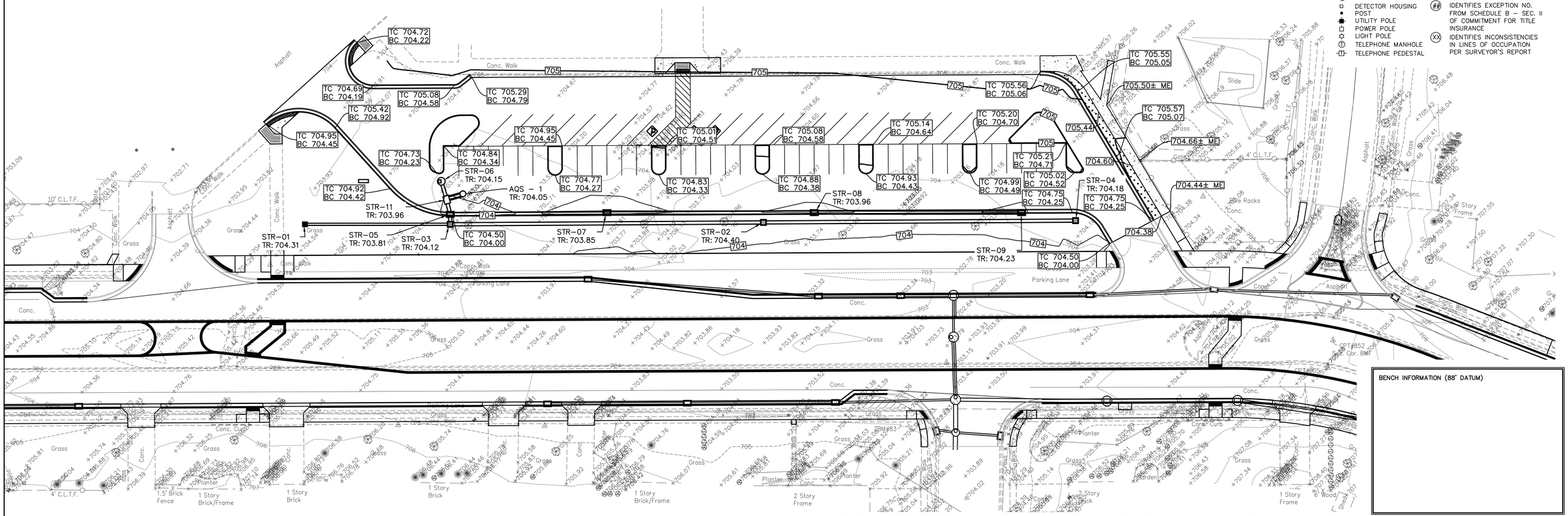
M.E.	MATCH EXISTING
EP	EDGE OF PAVEMENT
BC	BOTTOM OF CURB
TC	TOP OF CURB
BLDG	BUILDING
—000—	CONTOURS
—<-<-	FLOW LINE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS

30' 0' 30' 60'

SCALE: 1" = 30'

EXISTING LEGEND

	BEEHIVE INLET		ELECTRIC METER
	CURB INLET		TRANSFORMER
	STORM MANHOLE		WATER VALVE
	MANHOLE		FIRE HYDRANT
	SANITARY MANHOLE		STAND PIPE
	SIGN	ohe	OVERHEAD ELECTRIC LINE
	TRAFFIC POLE	e	BURIED ELECTRIC LINE
	TRAFFIC MANHOLE	w	BURIED WATER LINE
	TRAFFIC PEDESTAL	ctv	BURIED TELEVISION LINE
	TRAFFIC HAND HOLE	t	BURIED TELEPHONE LINE
	DETECTOR HOUSING	(##)	IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
	POST		
	UTILITY POLE		
	POWER POLE		
	LIGHT POLE	(XX)	IDENTIFIES INCONSISTENCIES IN LINES OF OCCUPATION PER SURVEYOR'S REPORT
	TELEPHONE MANHOLE		
	TELEPHONE PEDESTAL		



GENERAL GRADING NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
14. DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
15. THIS LOT DOES NOT LIE WITHIN A FLOOD HAZARD ZONE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR TIPPECANOE COUNTY, INDIANA, COMMUNITY 180428, PANEL NUMBER 0133D, DATED 9–25–2009.
16. ALL SUBSURFACE (UNDERDRAINS) DRAINS TO BE 6" DOUBLE WALL, SMOOTH BORE PERFORATED PIPE.
17. REFER TO BUILDING / GARAGE DETAIL FOR TYPICAL GRADING INFORMATION.

BENCH INFORMATION (88' DATUM)

NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT–OF–WAY SHALL CONFORM TO CITY OF WEST LAFAYETTE REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

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1–800–382–5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: JLW DRAWN: RCB
CHECKED: WAB CHECKED: JLW

CITY OF WEST LAFAYETTE

GRADING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.

SURVEY BOOK	SHEETS
	57 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 – 11:13 AM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.140.GP.DWG

SITE NAME:
The area scheduled for construction is known as "Cumberland Avenue Phase III"(hereinafter referred to as the "Project").

PROJECT LOCATION:
This project consists of roadway improvements to Cumberland Avenue, as shown on the plans, and parking lot improvements at the West Lafayette Elementary school. The project center is located at a latitude of 40°27'38"North and a longitude of 86°54'23" West.

OWNER'S INFORMATION:

Address:	609 West Navajo Street West Lafayette, Indiana 47906
Representative:	David M. Buck, P.E.
Title:	Public Works Director –Engineering Department
Telephone:	(765) 775–5130

OPERATOR'S INFORMATION:
For purposes of this submittal, the Operator will be the Owner. The Contractor will be selected by a public bid process. Once the Contractor receives the notice to proceed, contractor shall provide the necessary information as it pertains to the Rule 5 permit.

NOTICE OF INTENT:
All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on–site construction activities. Submittal of late NOIs is not prohibited; however, authorization under the construction general permit is only for discharges occurring after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the Environmental Protection Agency (EPA). For the purposes of this permit, an operator is defined as any party meeting either of the following requirements.

a. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications..

b. The party has day–to–day operational control of those activities at a project necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

Wherever a number reference is given, the number refers to the applicable portion of the Indiana Department of Transportation (INDOT) standard specifications. In addition, INDOT standard drawings and recurring special provisions have been referenced throughout this Stormwater Pollution Prevention Plan (SWPPP). All INDOT standards can be found on their website at www.in.gov/dot/div/contracts/standards. The West Lafayette Design Standard Specifications were also utilized for this "Project", and shall be used in addition to the INDOT standards.

A2 11" x 17" PLAT:
The property owners and boundaries are located on Plat No. 1.

A3 PROJECT NARRATIVE:
This project includes the reconstruction and upgrade of an existing roadway in West Lafayette, Indiana. Construction will include new storm sewer, new pavement, approaches, curb and gutter, raised median, and new pedestrian facilities including curb ramps, sidewalks, and a multi–use path. Construction will also include parking lot improvements at the West Lafayette Elementary school. This SWPPP is intended to be for the portion of the project involving the road reconstruction and parking lot improvement, and does not include any building or construction not contained within the project limits.

A4 VICINITY MAP:
A portion of the Indiana state map and a portion of the Tippecanoe County map are shown on the title sheet.

A5 LEGAL DESCRIPTION OF PROJECT SITE:
The project is located in Section 6, T-23-N, R-4-W, Section 7, T-23-N, R-4-W, and in Section 8, T-23-N, R-4-W, Wabash Township, City of West Lafayette, Tippecanoe County, Indiana.

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS:
The locations of the roadway construction items are shown on the typical sections, the plan and profile sheets, and the construction details.

A7 HYDROLOGIC UNIT CODE (HUC):
05120108010010 Burnett Creek - Headwaters
05120108010040 Wabash River –Lafayette

A8 STATE AND FEDERAL WATER QUALITY PERMITS:
Per the Wetlands Determination investigation done by the American Structurepoint environmental group, no "waters of the US"or " waters of the State"were identified. Also, no wetlands exist within the project limits and, therefore, no additional permits will be required.

A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE:
The stormwater drainage will outlet to the existing stormwater drainage system at the project limits. Stormwater from the site will discharge into the existing drainage system at the following locations:

No. 1	Str. No. 300	100+58, "PR-A1", Lt.
No. 2	Str. No. 158	120+85, "PR-A", Lt.
No. 3	Str. No. 170A	127+63, "PR-A", Rt.
No. 4	Str. No. 202	143+26, "PR-A", Rt. (Soldiers Home Road Exist. Manhole)

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE:
There are no additional wetlands, lakes, or watercourses on the site, see the U.S. Fish and Wildlife Service National Wetlands Inventory webpage (http://107.20.228.18/Wetlands/WetlandsMapper.html) for the wetlands map. The Wabash River is located to the east of the site, but is well outside of the limits of the project.

A11 IDENTIFICATION OF ALL RECEIVING WATERS:
The stormwater will discharge into the existing stormwater drainage systems at the project limits. These systems discharge into Burnett Creek, and ultimately the Wabash River via the existing drainage pattern.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUNDWATER:
Stormwater discharge during construction may include oil, fuel, and other vehicular fluids that may discharge directly to the groundwater via abandoned wells, sinkholes, and Karst springs. According to the Indiana Geological Survey webpage (http://maps.indiana.edu/ie8.html), none of these groundwater features are located within the project area. See Section B1 for additional information regarding potential discharges.

A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES:

The project area lies within Zone X, identified as areas outside the 0.2% annual chance floodplain. This information is based on the Flood Insurance Rate Map for Tippecanoe County, Indiana, Panel Numbers 18157C0133D and 18157C0134D, effective September 25, 2009.

A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE:

The existing drainage system is currently undersized in some locations and is being improved upon with the proposed system, while maintaining the current drainage pattern. The existing stormwater system peak discharges at each outlet are as follows:

No. 1	Existing Manhole	100+58, "PR–A1", Lt.	Q10 =11.2cfs
No. 2	Existing Pipe	120+85, "PR–A", Lt.	Q10 =87.1cfs
No. 3	Existing Pipe	127+63, "PR–A", Rt.	Q10 =30.7cfs
No. 4	Existing Manhole	143+26, "PR–A", Rt.	Q10 =35.1cfs

The proposed system is intended to achieve positive drainage of all collected stormwater away from the site. The water will be connected to the existing stormwater system at the project limits with peak discharges for each outlet point, as follows:

No. 1	Str. No. 300	100+58, "PR–A1", Lt.	Q10 =10.8cfs
No. 2	Str. No. 158	120+85, "PR–A", Lt.	Q10 =87.1cfs
No. 3	Str. No. 170A	127+63, "PR–A"Rt.	Q10 =29.9cfs
No. 4	Str. No. 202	143+26, "PR–A", Rt.	Q10 =34.9cfs

A15 ADJACENT LAND USE:

The adjacent land use is primarily residential with a community school property and a temple adjacent to the project.

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:

The construction limits serve as the limit for disturbed areas. The construction limits for the project are shown on the Plan and Profile, Construction Detail, and Cross–Section Sheets.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER:

The existing vegetative cover is consistent with residential urban areas, with green lawns, trees, and shrubs.

A18 SOILS MAP, INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS:

All soils information was obtained from the NRCS Web Soil Survey for Tippecanoe County (http://websoilsurvey.nrcs.usda.gov/app/). This site contains the following soils: Mahalasville–Treaty complex (Md), Strawn–Rodman complex,18 to 50 percent slopes (Syf), and Urban land–Starks–Fincastle complex, 0 to 2 percent slopes (UsA). The majority of the project contains UsA. The Mahalasville, hydrologic group B/D, is classified as poorly drained with a moderately low to moderately high water movement and a shrink–swell potential that is moderate. The soil is not flooded and is frequently ponded. The Strawn–Rodman, hydrologic group A/C, is classified as well drained to excessively drained with a low to very low water movement, and a shrink–swell potential that is low. The soil is not flooded and is not ponded. The Urban land–Starks–Fincastle soil, hydrologic group B/D, is classified as somewhat poorly drained with a moderate water movement and a shrink–swell potential that is moderate. The soil is not flooded and is not ponded.

The limitations addressed above will be remediated by removing all unsuitable fills encountered within the project area and backfilling with structure backfill in accordance with 211. In addition to removing the unsuitable materials, the roadbed will be strengthened utilizing subgrade treatment in accordance with 207.04. Due to the depth of the water table and seasonal water tables ranging from 0.5 foot to greater than eight feet, dewatering during construction may be required. Dewatering shall be completed in accordance with 716. Subsurface drains are recommended throughout the project.

Soft, loose, and other unsuitable soils will be removed in accordance with 203.09 and replaced with engineered fill in accordance with 211.02.

A19 LOCATIONS, SIZE, AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS:

The proposed stormwater system consists of a new enclosed storm sewer system that connects to the existing stormwater system at the project limits.

The Plan and Profile shows the locations of the structures. Sizes and dimensions of the structures and pipes can be found in the Structure Data Table.

A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT:

Utility relocations, site development, and other work, as required, may be completed coincidently, or in conjunction with, this project. Should these works include a land disturbance of greater than one acre, a separate Rule 5 shall be submitted for these works.

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL:
Stockpiling of selected materials shall be in accordance with 212 and as directed by the engineer. The location of any soil stockpiles shall be determined by the contractor.

The contractor is directed to provide specific information regarding the location of borrow or disposal areas to the Indiana Department of Environmental Management (IDEM) Wet Weather

Section and to the Soil and Water Conservation District prior to establishing the stockpiles. Information provided is listed in 108.04 and 203.08.

A22 EXISTING SITE TOPOGRAPHY:
Refer to the Typical Sections and the Cross–Section sheets in the plans.

A23 PROPOSED FINAL SITE TOPOGRAPHY:
Refer to the Typical Sections and the Cross–Section sheets in the plans.

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:
Pollutant sources that may be associated with construction activities on site include, but are not limited to, the following.

1. Exposed soils
2. Windblown dust
3. Leaking vehicles and equipment
4. Construction waste material
5. Fuel storage areas and fueling stations
6. Sanitary waste from temporary toilet facilities
7. Litter
8. Soil tracking off site from construction equipment
9. Material storage areas
10. Concrete wash out
11. Demolition debris
12. Fertilizers and pesticides

Construction materials that may be staged or stored on site at various points during development of the site include, but are not limited to, the following.

1. Structural fill
2. Road base
3. Drainage pipe
4. Precast concrete structures
5. Riprap
6. Underdrain materials and geotextiles

Right–of–way clearing shall be performed as needed to remove any objects such as trees, shrubs, etc., considered obstructions, as shown on the plans. Clearing shall be conducted in accordance with 201.03. The act of clearing and removing of obstructions may result in unintentional ground disturbances that may, in turn, result in the possibility of sediment removal
from the site. The contractor shall monitor surface stabilization throughout the removal process and implement measures necessary to maintain appropriate surface stabilization as required.

Any areas left undisturbed for more than seven days shall be stabilized by the use of temporary seeding and/or sodding, as directed in 205.

The Contractor is responsible for all construction activities and the pollutants associated with them, as well as their remediation in accordance with 108.04. The Contractor is directed to
submit an amended erosion control plan to the Soil and Water Conservation District and the project owner prior to earthmoving activities.

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND–DISTURBING ACTIVITIES:

Due to construction phasing, the sequence outlined below may be repeated for each phase.

1. Install temporary erosion control measures appropriate for stable construction entrance construction and right–of–way clearing
2. Install construction entrances and perimeter controls
3. Site clearing
4. Install temporary erosion control measures in disturbed areas
5. Begin earthwork operations
6. Install staging areas, material storage areas, and fueling stations
7. Temporary seed disturbed areas if to be undisturbed for more than seven days
8. Begin structure and pipe installations
9. Install inlet protection measures
10. Complete subgrade operations
11. Paving/curb operations
12. Final grade, seed, and sod

The Contractor may be required to adjust the proposed erosion control plan as needed for the construction phasing of the project. The Contractor is required to submit a plan for their
sequence of operations and implementation of erosion control measures following awarding of the contract.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:

The location(s) of the construction entrance(s) for the contractor, all subcontractors, employees, and vehicles shall be determined by the contractor. The stable construction entrance shall

be constructed as directed in the special provisions. If an area of existing roadway is to be used, the Contractor shall maintain the roadway and the area around it for conformance to the requirements stipulated in the 108.04 and 205.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:
Anticipated sheet flow areas are limited to the areas between the curb and the sidewalks in existing and proposed locations. All disturbed areas shall be temporarily seeded during construction, if left undisturbed for more than seven calendar days, and permanently sodded or seeded up completion of the final grade. Silt fence will be located along all toe–of–slopes where sediment may be washed outside the construction limits..

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:

Concentrated flow areas will occur in the gutter areas of the roadway and within the ditches along the roadsides. The Contractor shall be responsible for providing appropriate curb inlet
protection for the proposed inlets after installation and also ditch inlet protection for proposed ditch inlets after installation. The Contractor is instructed to protect all curb inlets from sediment during construction using INDOT–approved methods in accordance with 205.03. Check dams will be utilized to control sediment in the roadside ditches in accordance with 205.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS:

The Contractor shall provide curb inlet protection and ditch inlet protection for each of the existing inlets prior to their removal. Once the proposed inlets have been installed, they shall be protected by using method shown in the City of West Lafayette Design Standards.

B7 RUNOFF CONTROL MEASURES:

Runoff will be controlled by temporary seeding. If disturbed ground is left undisturbed for more than seven days, in order to minimize sediment removal from the site, temporary seeding in accordance with 205.03(i) and 621.06(f) will be used until permanent grade stabilization measures have been established.

B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

Revetment riprap over geotextiles shall be used for both temporary and permanent protection at all outlet points to prevent scour. The riprap will be placed in conjunction with the storm sewer system to prevent washout during the time of construction.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

No grade stabilization implementations are required for this project. However, it is the responsibility of the contractor to notify the engineer of any areas appearing to be eroding so
adequate grade stabilization measures may be employed.

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:

All temporary erosion control measures shall be installed and maintained in accordance with 205 and the applicable standard drawings and material specifications contained within the INDOT
standard specifications, in conjunction with the City of West Lafayette Design Standards. All temporary erosion control measures are shown on the Erosion Control Details in the plans.

Silt fence shall be installed in accordance with Standard Drawing E 205–TECP–02. The materials shall be in accordance with 918.

Temporary seeding and mulching shall be completed in accordance with 621.06(f). Seeding and mulching shall be placed in accordance with 621.05, and all seeding, sodding, and mulching
materials shall be in accordance with 914.

Riprap materials shall be placed in accordance with 616, and all riprap aggregate materials shall be in accordance with 904.04. The geotextile materials shall be in accordance with 918.02.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON:

Seasonal limitations for the use of seeding and/or sodding are defined in Sections 621.06, 621.12 and 205.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE N/A	
		VERTICAL SCALE	
DESIGNED: NRM / DRAWN: NRM	SWPPP	SHEETS	
CHECKED: MJM / CHECKED: MJM		58 of 181	
		PROJECT NO.	

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS:

Seeding or sodding shall be placed in all unpaved areas. Riprap revetment shall be used at all stormwater outlet locations.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN:

Materials handling and prevention plans shall be the responsibility of the contractor. In the event of an environmental spill, the contractor shall notify IDEM immediately at (888) 233-7745.

Materials Handling and Spill Prevention

Materials should be stored in a manner that prevents or minimizes the chance a spill will reach soils, groundwater, or surface water. Materials stored inside shall be placed in a manner to prevent a spill from migrating outside the confines of the building or into any drain leaving the building and discharging to soils, groundwater, or surface water.
If a spill does occur, then the spill must be contained immediately utilizing appropriate response techniques, including diking and absorbents. Clean up of the spill should occur as soon as possible once the spill is stabilized and contained. Spills shall be cleaned up using acceptable methods, such as absorbents on impervious surfaces or removal of contaminated soils. In all cases, cleanup standards must adhere to local state, and federal requirements. Failure to clean up any spill is a violation of the Indiana State Spill Rule (327 IAC 2-6.1), which is enforced by the Indiana Department of Environmental Management (IDEM). Certain spills must be reported to the local response agency, Local Emergency Planning Committee and/or IDEM. Initial calls should be made to the 911 system if the spill exceeds reportable quantities or is a threat to public safety. IDEM (888) 233-7745) can typically assist with information on clean up operations or clean up Contractors.

All spills that occur near an inlet to the stormwater conveyance system must have "curbing"implemented immediately. " Curbing"is the use of a barrier (absorbent material) that prevents the spill from making contact with the stormwater conveyance system or stormwater runoff.

Spill prevention starts with preplanning. A spill prevention and control plan should be developed and utilized prior to any emergency. This plan should be shared with all employees and reviewed annually.

Solid Waste Disposal

No solid material, including construction materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activities, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the state and/or appropriate local municipality to accept the waste for disposal.

Hazardous Waste

Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials shall be disposed in the manner specified by federal, state, or local regulations, or by the manufacturer.

Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers. (If original container is not resealable, store the products in clearly labeled, waterproof containers.) Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state, or local regulations, the Contractor shall have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place.

The location of any hazardous material storage areas shall be included in the amended stormwater pollution prevention plan prepared by the Contractor prior to the start of construction.

Equipment Fueling and Storage Areas

Equipment fueling, maintenance, and cleaning shall only be done in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids shall be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) shall take place within an area surrounded by a berm. The use of detergents is prohibited.

Dust Control/Off-Site Vehicle Tracking

During construction, water trucks shall be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site shall be stabilized to reduce dust.

Construction traffic shall enter and exit the site at a construction entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

Sanitary/Septic

Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities shall be utilized by all construction personnel and serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities shall be indicated on the SWPPP.

Water Source

Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the state or local health department.

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

The monitoring and maintenance of all temporary erosion control measures shall be in accordance with 205.04 and 108.04. Regular inspections of all erosion control measures shall be reported in accordance with the special provisions "Storm Water, Erosion, and Sediment Control Inspection Report".

Construction Entrance

Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking.

Material Storage Inspection

Inspectors must evaluate areas used for storage of materials exposed to precipitation to ensure materials are protected and/or impounded so pollutants cannot discharge from storage areas.

Material Handling and Spill Prevention

Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill, the Contractor is required to notify the National Response Center at (800) 424-8802 to properly report the spill. In addition, the Contractor shall submit a written description of the release, including type and amount of materials released, date of release, circumstances, and steps taken to prevent future spills, to the Vanderburgh County Soil and Water Conservation District.

Notice of Termination

Compliance of the site with the NOI remains the responsibility of the contractor and subcontractors until such time as a Notice of Termination (NOT) has been submitted by the owner. The owner will submit the NOT once all construction activities have been completed and final approval has been granted to the Contractor.

B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS:

There are no individual building lots associated with this project.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

The proposed land use is a public roadway. The pollutants and sources of each pollutant normally expected from this type of land use are listed below.

Pollutant Source: Pedestrians, Passenger vehicles, delivery vehicles, and trucks

Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, and road de-icing materials, litter, and other trash. In addition, the use of fertilizers and insecticides are likely for the commercial landscaping.

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

The Contractor shall implement permanent erosion control measures as soon as is practical. Permanent seeding or sodding shall occur when the disturbed area is at final grade. Once the project has been completed and before final approval of the project, the Contractor shall inspect all previously installed measures for compliance with the special provisions, standard specifications, and plans. The Contractor shall remove any built-up sediment deposits and repair any failed measures, including reseeding or sodding any areas where surface runoff has removed the previously installed measure.

C3 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

Sod and seed shall be used in all disturbed areas for permanent stormwater quality measures and be placed in accordance with 621. Riprap outlet protection measures shall be installed in accordance with 616.

Sumped inlets and/or manholes shall be installed in accordance with the West Lafayette Design Standard Specifications. Sumped drainage structures provide an effective means of keeping pipe lines clean, the drop portion retains solid material.

A water quality BMP structure shall be installed with the construction of the West Lafayette Elementary school parking lot. The structure is located just prior to the parking lot drainage outlet. This structure, an Aqua-Swirl AS-3, is designed to achieve up to 85% sediment removal. See the parking lot storm plan and profile detail sheets for BMP location. Additionally, see the parking lot site details sheet for the Aqua-Swirl detail.

An existing BMP structure was previously installed downstream of Outlet 1 during the Phase 2 construction of Cumberland Ave, at Cumberland Ave. and Manchester Street. This BMP structure was manufactured by Contech and utilizes continuous deflective separation to separate solids from liquids. It is designed to achieve up to 80% TSS removal and 100% removal of any particles equal to or larger than the screen aperture dimension. Since the peak discharge at Outlet 1 decreased from pre-construction to post-construction, the existing BMP will treat the stormwater leaving the site at Outlet 1.

The water leaving the project limit at Outlet 3 passes through the stormwater system south of Cumberland Avenue, and then is routed back north to Cumberland Avenue via the existing system, where it ultimately leaves the project at Outlet 2. The stormwater leaving the project at Outlet 2 discharges to an existing drainage swale, which outlets to a wet pond located on the north side of W 350 N and Wakefield Drive. This wet pond currently serves as a BMP measure for this water, based on Table 8-2 and Appendix D of the Tippecanoe County Stormwater Technical

Standards Manual. Some of the criteria to be met by this wet pond are 80% TSS removal efficiency as stated by Table 8-2 and the ability to mitigate peak runoff rates for the 1-year through 100-year rainfall events as stated by Appendix D. The stormwater discharge rate leaving the project at Outlet 2 is the same for the pre-construction and post-construction conditions. Since the discharge rate is unchanged, the existing wet pond will treat the discharge as it does currently.

A water quality BMP structure shall be installed prior to Outlet 4 where the water leaves the site. The structure is located on the south west corner of Cumberland Ave. and Soldiers Home Rd. This structure, an Aqua-Swirl AS-2, is designed to achieve up to 85% sediment removal. See Line "PR-A"plan and profile sheets for BMP location. Additionally, see the miscellaneous details sheet for the BMP structure detail.

C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:

Details of the stormwater quality measures are located on the plan and profile sheets, construction details, miscellaneous details, cross-sections, standard specifications, standard drawings, and special provisions.

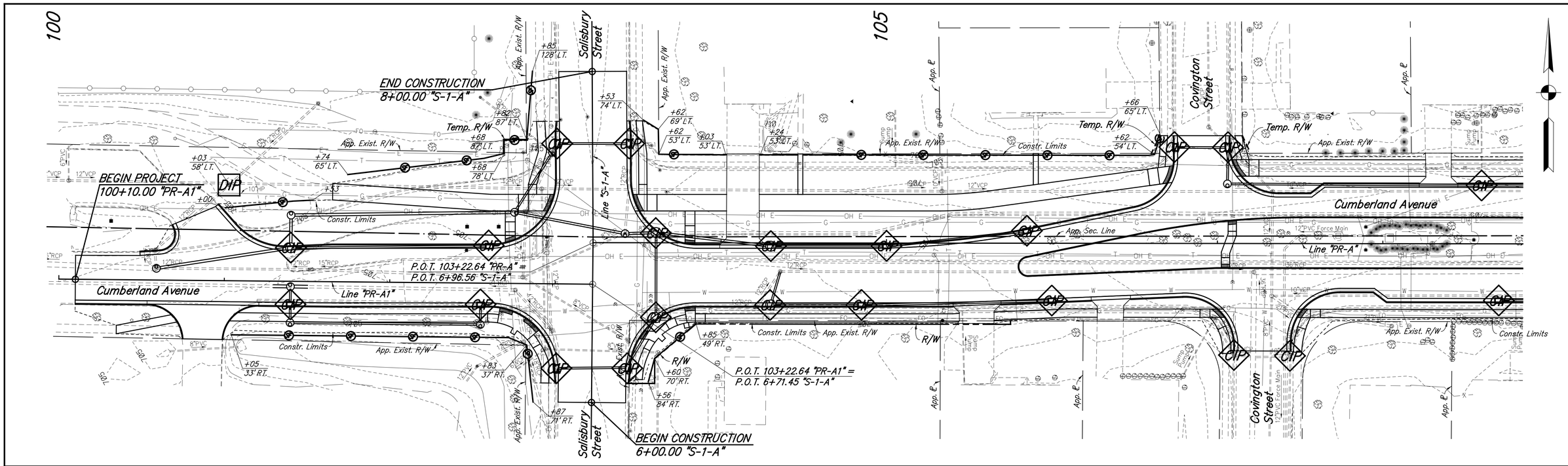
C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

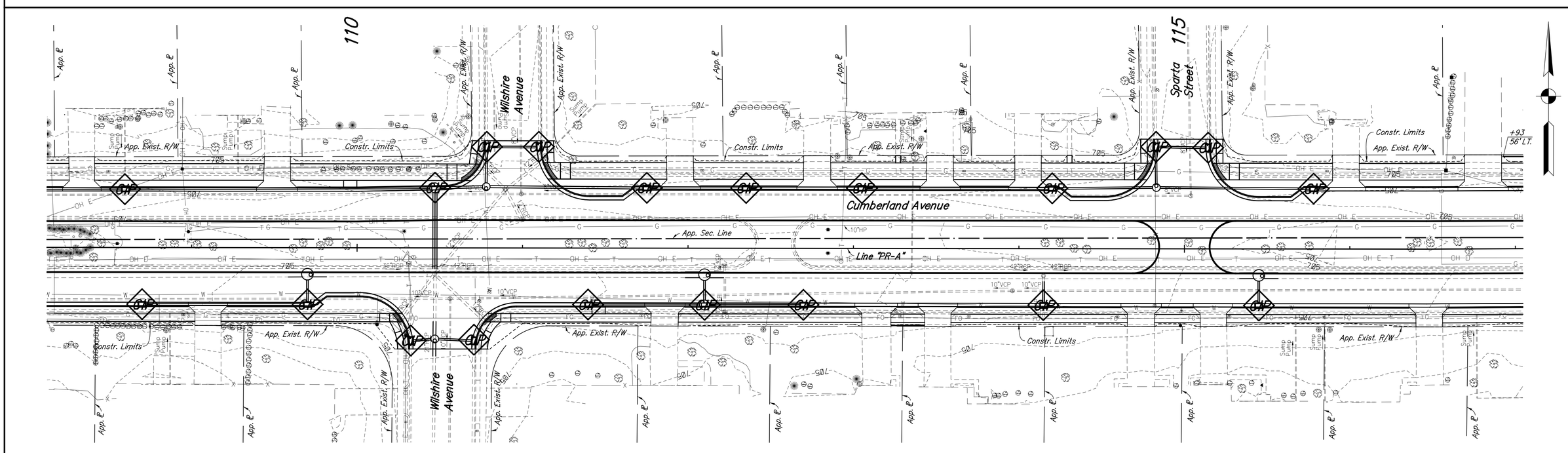
The City of West Lafayette will be responsible for maintaining all areas along the roadway and within the right-of-way.

The stormwater drainage system being installed on the West Lafayette Elementary School property will be maintained by the school.

Routine inspections of all area inlets will be performed for sediment build-up around and within the inlets, manholes, and BMP structures.

Suggested maintenance measures include regular mowing and litter pick-up along the roadway, sediment removal from inlets, manholes, and BMP structures. Reconstruction of areas of significant erosion will be required.





LEGEND

- Temporary Silt Fence
- DIP — Temporary Ditch Inlet Protection
- CIP — Temporary Curb Inlet Protection (Not a Pay Item)

NOTES:
All areas left undisturbed for more than 7 calendar days shall be Temporary Seeded, unless shown otherwise, or as directed by the Engineer.

All existing and proposed inlets within the construction area shall be protected as shown in the City of West Lafayette Typical Construction Guidelines and Details.

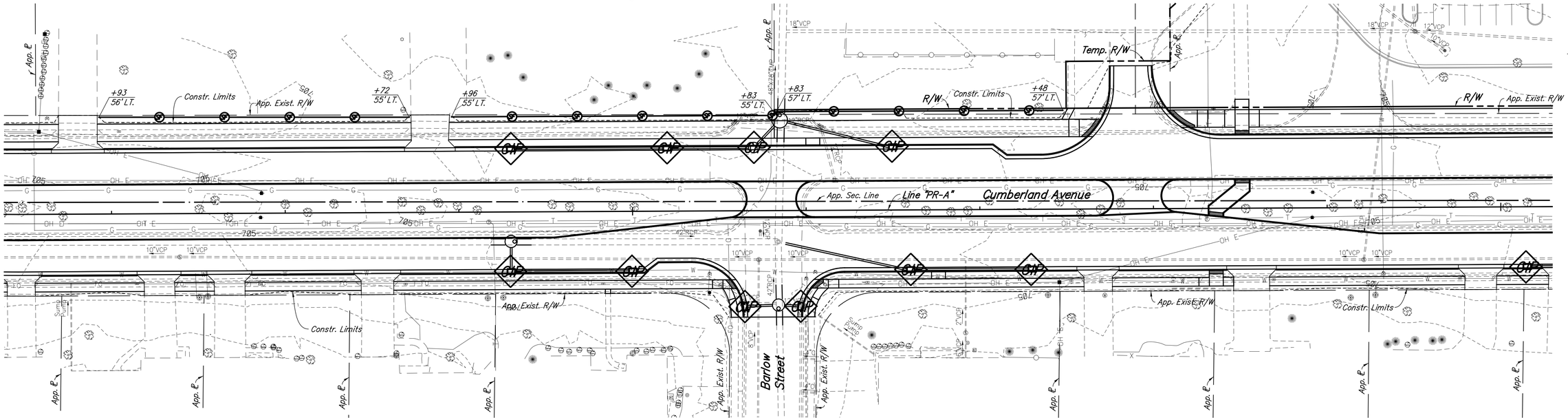
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

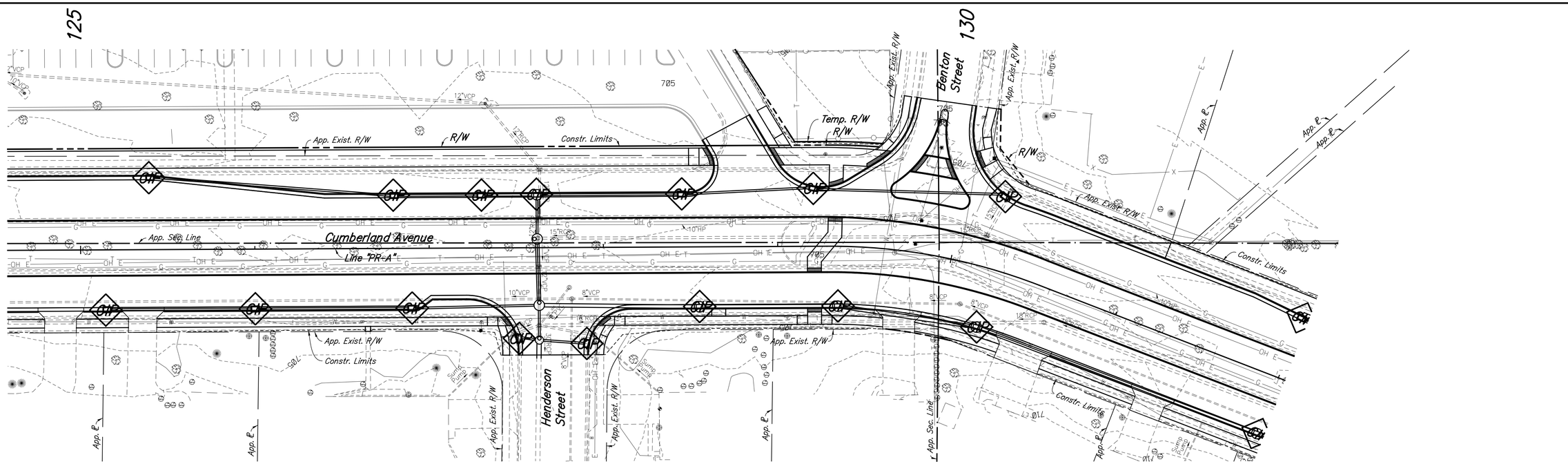
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

EROSION CONTROL DETAILS LINE "PR-A1" & "PR-A"

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	60 of 181
PROJECT NO.	





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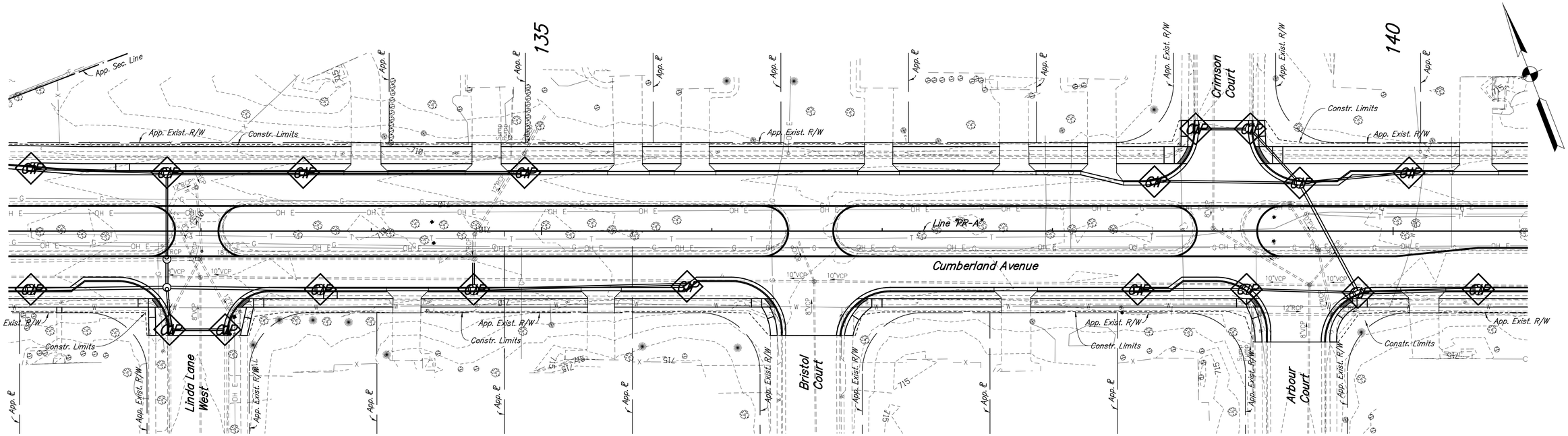
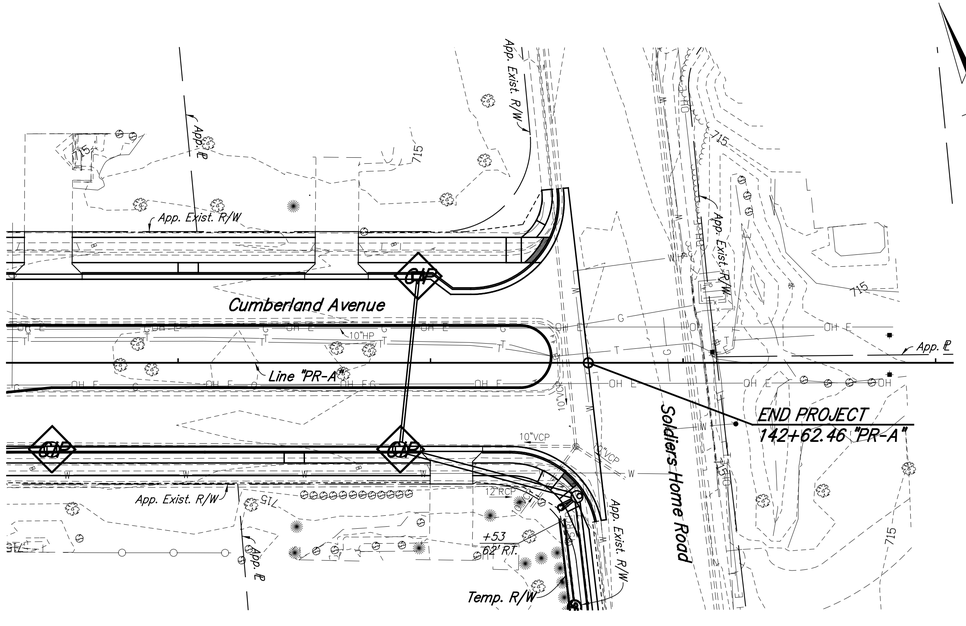
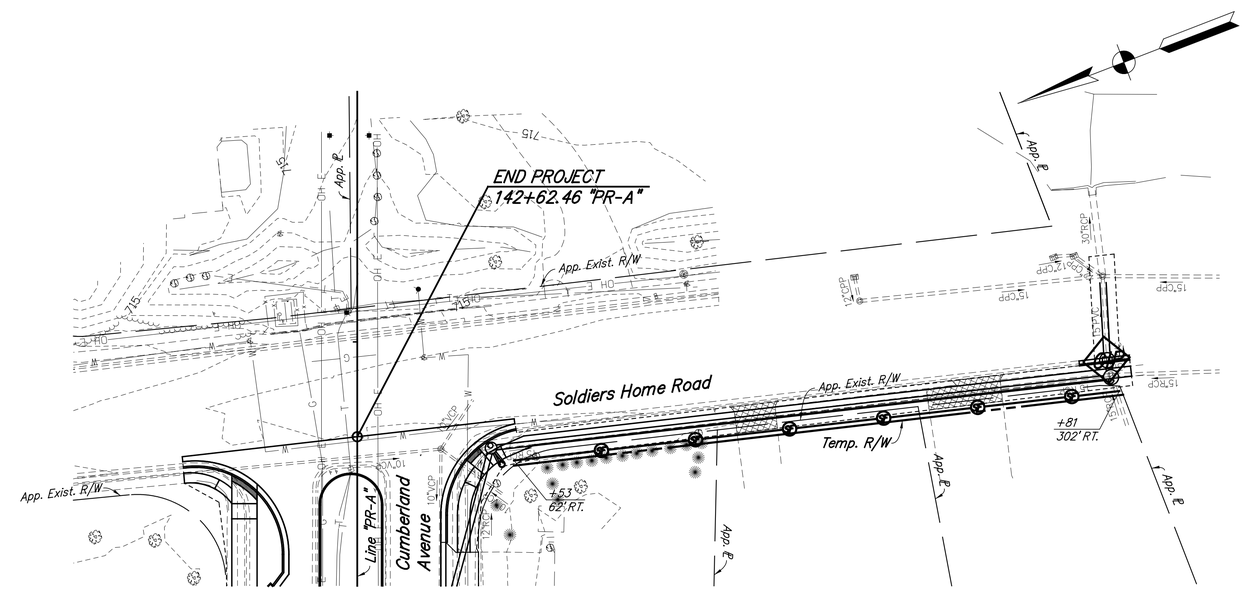
CITY OF WEST LAFAYETTE

EROSION CONTROL DETAILS LINE "PR-A"

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	61 of 181
PROJECT NO.	







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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

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CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

EROSION CONTROL DETAILS LINE "PR-A"

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
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EROSION CONTROL TABLE

LOCATION		TEMPORARY SILT FENCE	TEMPORARY CHECK DAMS STRAW BALES	SEDIMENT REMOVE	TEMPORARY SEDIMENT TRAP	TEMPORARY SLOPE DRAIN	SPLASHPAD RIPRAP	TEMPORARY SEED MIXTURE	TEMPORARY MULCH	FERTILIZER	TEMPORARY DITCH INLET PROTECTION	INTERCEPTOR DITCH (NOT A PAY ITEM)
STATION TO STATION		(LFT)	(LFT)	(CYS)	(TON)	(LFT)	(TON)	(LBS)	(TON)	(TON)	EACH	(LFT)
Line "PR-A1" RT.								*20*	*0.25*			
101+05	*102+83*	*178*										
102+83	*102+87*	*34*										
Line "PR-A1" LT.								*20*	*0.25*			
101+00	*101+53*	*53*										
101+03											*1*	
101+74	*102+68*	*94*										
102+68	*102+85*	*64*										
Line "PR-A" RT.								*280*	*4.75*			
103+56	*103+85*	*48*										
142+53	*142+81*	*242*										
Line "PR-A" LT.								*280*	*4.75*			
103+53	*103+62*	*26*										
103+62	*104+03*	*41*										
104+24	*106+62*	*238*										
106+62	*106+66*	*12*										
116+93	*118+72*	*179*										
118+96	*122+48*	*352*										
Parking Lot		*860*										
Totals =		*2,421*		*10*				*600*	*10.00*		*1*	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

EROSION CONTROL TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 63 of 181

PROJECT NO.

PROPOSED EROSION CONTROL LEGEND

- (A) N.O.I. POSTING
- (B) CONCRETE WASH-OUT AREA
- (C) DUMPSTER
- (D) PORT-O-LET
- CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- SOD
- SF SILT FENCE
- IP CATCH ALL INLET PROTECTION
- IP SF SILT FENCE INLET PROTECTION
- STAGING AREA
- LIMITS OF CONSTRUCTION

SOIL TYPES

UsA SOIL TYPE

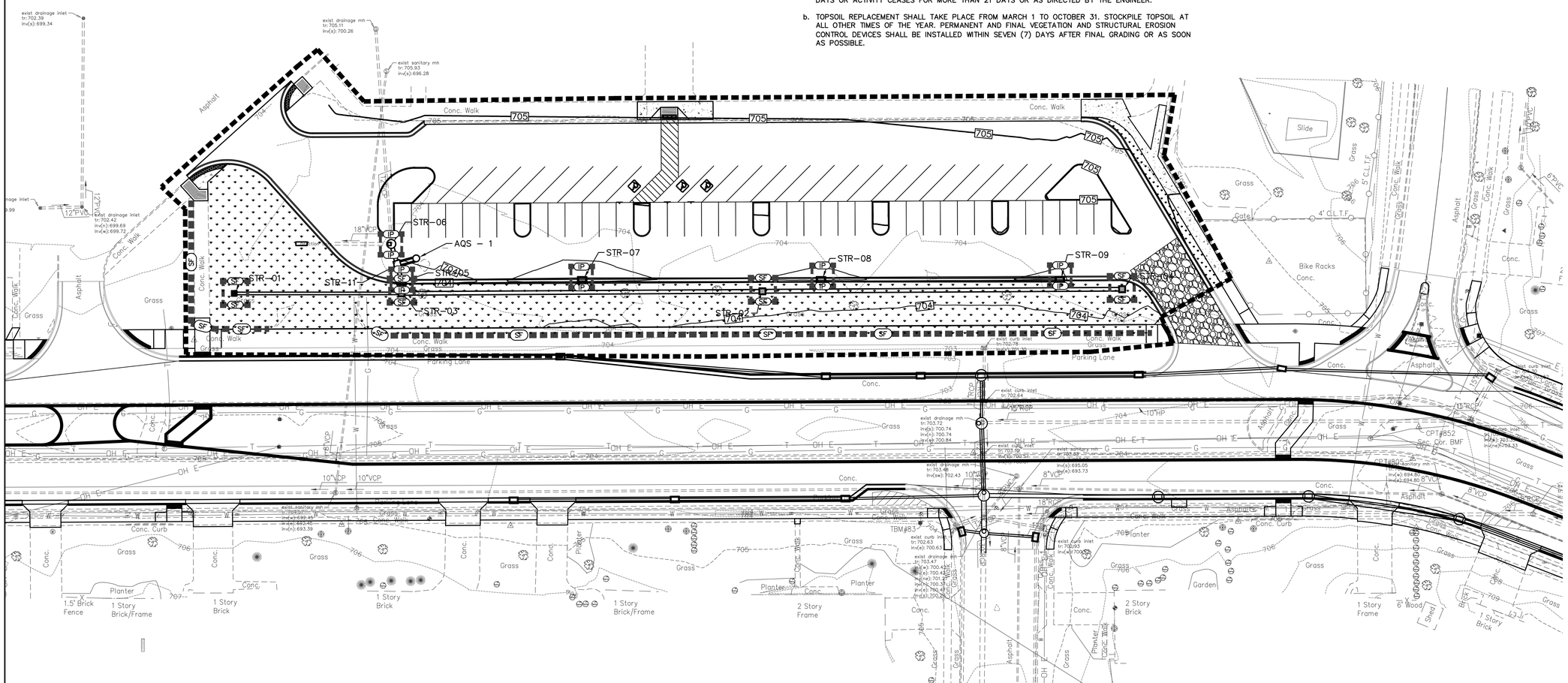
EROSION CONTROL NOTES

1. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
15. THIS LOT DOES NOT LIE WITHIN A FLOOD HAZARD ZONE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR TIPPECANOE, INDIANA, COMMUNITY 180428, CITY OF WEST LAFAYETTE, PANEL NUMBER 0133, DATED 9-25-2009.
16. SCHEDULE OF EARTHWORK ACTIVITIES:
    a. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
    b. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.

30' 0' 30' 60'
SCALE: 1" = 30'

EXISTING LEGEND

- BEEHIVE INLET
- CURB INLET
- STORM MANHOLE
- MANHOLE
- SANITARY MANHOLE
- SIGN
- TRAFFIC POLE
- TRAFFIC MANHOLE
- TRAFFIC PEDESTAL
- TRAFFIC HAND HOLE
- DETECTOR HOUSING
- POST
- UTILITY POLE
- POWER POLE
- LIGHT POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- ELECTRIC METER
- TRANSFORMER
- WATER VALVE
- FIRE HYDRANT
- STAND PIPE
- ohe OVERHEAD ELECTRIC LINE
- e BURIED ELECTRIC LINE
- w BURIED WATER LINE
- ctv BURIED TELEVISION LINE
- t BURIED TELEPHONE LINE
- (##) IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
- (XX) IDENTIFIES INCONSISTENCIES IN LINES OF OCCUPATION PER SURVEYOR'S REPORT



BENCH INFORMATION (88' DATUM)

NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LAFAYETTE REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

CAUTION !!

THE 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 SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLW | DRAWN: RCB
CHECKED: WAB | CHECKED: JLW

CITY OF WEST LAFAYETTE

EROSION CONTROL PLAN

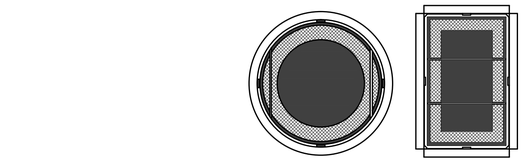
HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.

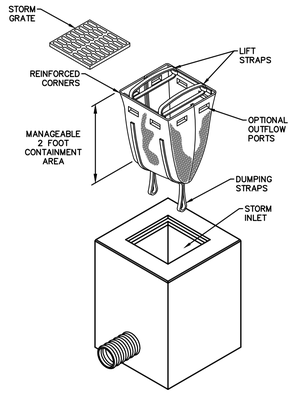
SURVEY BOOK	SHEETS
	64 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 - 1:30 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.150.ECP.DWG

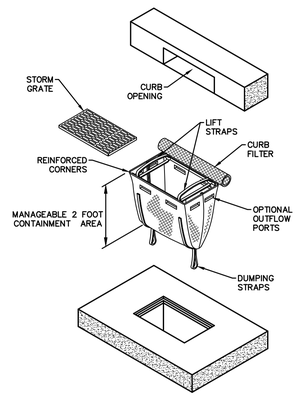
EROSION CONTROL NOTES:

1. CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, DRAINAGE SWALES, DETENTION BASIN, PAVEMENT, SIDEWALKS AND BUILDINGS.
2. PRELIMINARY CONSTRUCTION SCHEDULE: EARTHWORK SHALL BEGIN IN THE SPRING OF 2014. INSTALLATION OF STORM DRAINAGE STRUCTURES, SANITARY SEWERS AND WATER MAINS SHALL BEGIN IN THE SPRING OF 2015. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2015. THIS SCHEDULE IS SUBJECT TO CHANGE.
3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
4. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
7. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
8. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
9. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
10. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
11. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
12. EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
13. THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
14. ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
15. SCHEDULE OF EROSION CONTROL ACTIVITIES:
    a. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
    b. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
    c. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
16. CONTRACTOR TO INSPECT THE EROSION CONTROL MEASURES AT THE FOLLOWING FREQUENCIES:
    a. SILT FENCE – INPSECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
    b. CONSTRUCTION ENTRANCE – INSPECT DAILY.
    c. CONCRETE WASHOUT – INSPECT DAILY AND AFTER EACH STORM EVENT.
    d. CATCH-ALL INLET PROTECTION – INSPECT DAILY.
    e. SILT FENCE INLET FILTER – INSPECT DAILY.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
18. APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
    a. FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
    b. SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
19. ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
20. CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
21. CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER, CITY OF WEST LAFAYETTE AND TIPPECANOE IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.

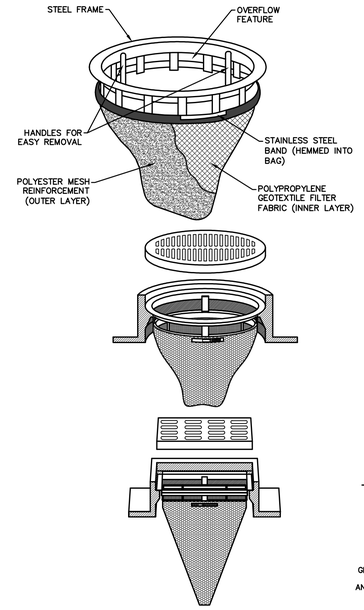




DETAIL OF INLET SEDIMENT CONTROL DEVICE



DETAIL OF INLET SEDIMENT CONTROL DEVICE WITH CURB FILTER



NOTE: CONTRACTOR TO USE FLEXSTORM CATCH-IT INLET PROTECTOR, DANDY BAG OR APPROVED ALTERNATE.

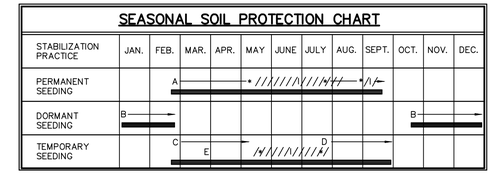
DROP-IN INLET PROTECTION TO BE USED IN PAVED AREAS.

INSTALLATION
1. REMOVE THE STORM SEWER GRATE AND PLACE THE FRAME INTO THE GRATE OPENING.
2. PLACE GEOTEXTILE FABRIC INTO THE FRAME AND SECURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
3. REPLACE THE STORM SEWER GRATE.

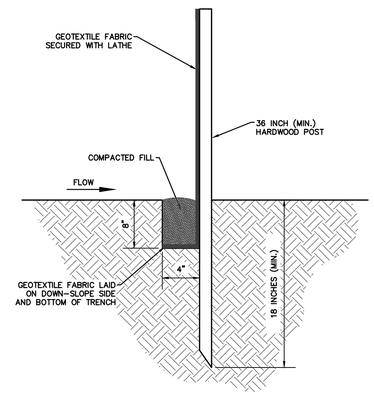
MAINTENANCE
- INSPECT DAILY.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- REPLACE OR CLEAN GEOTEXTILE FABRIC AS NEEDED.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE INLET PROTECTION.

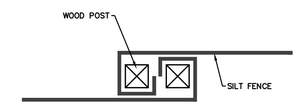
DROP-IN INLET PROTECTION
NOT TO SCALE (REV. 11/13)

SEASONAL SOIL PROTECTION CHART



A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
C = SPRING OATS 3 BUSHELS/ACRE
D = WHEAT OR RYE 2 BUSHELS/ACRE
E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
/\/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER





SPECIFICATIONS
DRAINAGE AREA
- LIMITED TO ONE-QUARTER ACRE PER 100 LINEAR FEET OF FENCE.
- FURTHER RESTRICTED BY SLOPE STEEPNESS (SEE TABLE 1).

EFFECTIVE LIFE
- SIX MONTHS (MAXIMUM).

LOCATION
- INSTALLED PARALLEL TO THE SLOPE CONTOUR.
- MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A BROAD, SHALLOW SEDIMENT POOL.
- ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR).

SPACING
TABLE 1. SLOPE STEEPNESS RESTRICTIONS

PERCENT SLOPE		MAXIMUM DISTANCE
< 2%	< 50:1	100 FEET
2% – 5%	50:1 TO 20:1	75 FEET
5% – 10%*	20:1 TO 10:1	50 FEET
10% – 20%*	10:1 TO 5:1	25 FEET
> 20%	> 5:1	15 FEET

*CONSIDER OTHER ALTERNATIVES.
NOTE: MULTIPLE ROWS OF SILT FENCE ARE NOT RECOMMENDED ON THE SAME SLOPE.

TRENCH
- DEPTH: EIGHT INCHES MINIMUM.
- WIDTH: FOUR INCHES MINIMUM.
- AFTER INSTALLING THE FENCE, BACKFILL WITH SOIL MATERIAL AND COMPACT (TO BURY AND ANCHOR THE LOWER PORTION OF THE FENCE FABRIC).

NOTE: AN ALTERNATIVE TO TRENCHING IS TO USE MECHANICAL EQUIPMENT TO PLOW IN THE SILT FENCE.

MATERIALS AND SILT FENCE SPECIFICATIONS
- FABRIC – WOVEN OR NON-WOVEN GEOTEXTILE FABRIC, MEETING SPECIFIED MINIMUMS OUTLINED IN TABLE 2.

TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON-WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
TEXTILE STRENGTH AT 20% ELONGATION STANDARD STRENGTH EXTRA STRENGTH	 30 LBS. PER LINEAL INCH 50 LBS. PER LINEAL INCH	 50 LBS. PER LINEAL INCH 70 LBS. PER LINEAL INCH
SLURRY FLOW RATE	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT
UV RESISTANCE	70%	85%
POST SPACING	7 FEET	5 FEET

NOTE: SILT FENCES CAN BE PURCHASED COMMERCIALLY.

- HEIGHT – A MINIMUM OF 18 INCHES ABOVE GROUND LEVEL (30 INCHES MAXIMUM).
- REINFORCEMENT – FABRIC SECURELY FASTENED TO POSTS WITH WOOD LATHE.
- SUPPORT POSTS – 2x2 INCH HARDWOOD POSTS. STEEL FENCE POSTS MAY BE SUBSTITUTED FOR HARDWOOD POSTS (STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC).
- SPACING – EIGHT FEET MAXIMUM IS FENCE IS SUPPORTED BY WIRE MESH FENCING, SIX FEET MAXIMUM FOR EXTRA-STRENGTH FABRIC WITHOUT WIRE BACKING.

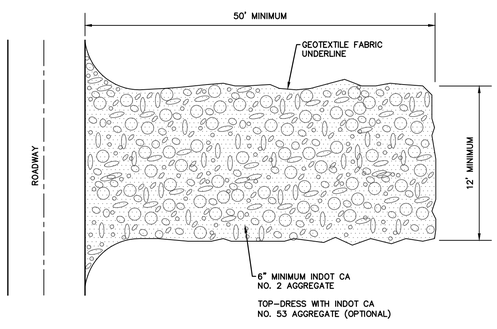
INSTALLATION
1. LAY OUT THE LOCATION OF THE FENCE SO THAT IS IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF TWO FENCES, USE THE JOINT METHOD SHOWN.
5. LAY THE FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS (REFER TO TABLES 1 AND 2 FOR SPACING AND GEOTEXTILE SPECIFICATIONS) AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

MAINTENANCE
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ON-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.

NOTE: SILT FENCE IS NOT RECOMMENDED FOR USE AS A DIVERSION AND SHOULD NOT BE USED ACROSS A STREAM, CHANNEL, DITCH, SWALE, OR ANYWHERE THAT CONCENTRATED FLOW IS ANTICIPATED.

SILT FENCE CONSTRUCTION
NOT TO SCALE (REV. 11/13)



SPECIFICATIONS
LOCATION
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.

DIMENSIONS
- WIDTH: TWELVE (12) FEET MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT DRIVE, WHICHEVER IS GREATER.
- LENGTH: FIFTY (50) FEET MINIMUM OR FULL LENGTH OF DRIVE, WHICHEVER IS GREATER.
- THICKNESS: SIX (6) INCHES MINIMUM.

MATERIALS
- ONE (1) TO TWO AND ONE-HALF (2-1/2) INCH DIAMETER WASHED AGGREGATE (INDOT CA NO. 2).
- ONE-HALF (1/2) TO ONE AND ONE-HALF (1-1/2) INCH WASHED AGGREGATE (INDOT CA NO. 53); OPTIONAL, USED PRIMARILY WHERE THE PURPOSE OF THE PAD IS TO KEEP SOIL FROM ADHERING TO VEHICLE TIRES.
- GEOTEXTILE FABRIC UNDERLAYMENT (USED AS A SEPARATE LAYER TO PREVENT INTERMIXING OF AGGREGATE AND THE UNDERLYING SOIL MATERIAL AND TO PROVIDE GREATER BEARING STRENGTH WHEN ENCOUNTERING WET CONDITIONS OR SOILS WITH SEASONAL HIGH WATER TABLE LIMITATIONS).

INSTALLATION
1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE THE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. TOP-DRESS THE DRIVE WITH WASHED AGGREGATE (INDOT CA NO. 53).
7. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE
- INSPECT DAILY.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOP-DRESS WITH CLEAN AGGREGATE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
- FLUSHING SHOULD ONLY BE USED IF THE WATER FROM THE CONSTRUCTION DRIVE CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

GRAVEL CONSTRUCTION ENTRANCE (SITES LESS THAN TWO ACRES)
NOT TO SCALE (REV. 11/13)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

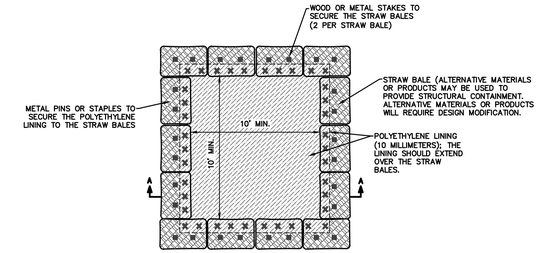
DESIGNED: JLW | DRAWN: RCB
CHECKED: WAB | CHECKED: JLW

CITY OF WEST LAFAYETTE

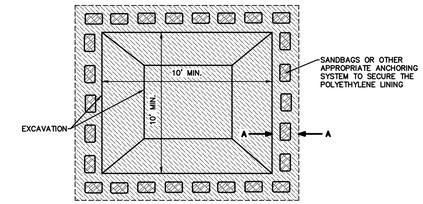
EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
	65 of 181
CONTRACT	PROJECT NO.

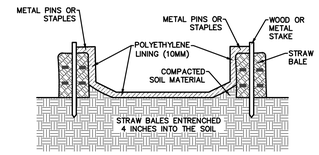
PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 – 1:09 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.151.ECD.DWG



PLAN VIEW

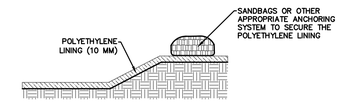


PLAN VIEW



SECTION A–A

ABOVE GRADE SYSTEM



SECTION A–A

BELOW GRADE SYSTEM

SPECIFICATIONS

SITE MANAGEMENT
- COMPLETE CONSTRUCTION/INSTALLATION OF THE SYSTEM AND HAVE WASHOUT LOCATIONS OPERATIONAL PRIOR TO CONCRETE DELIVERY.
- DO NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES, OR STREETS.
- NEVER WASH OUT INTO A STORM SEWER DRAINAGE SYSTEM. THESE SYSTEMS ARE TYPICALLY CONNECTED TO A NATURAL CONVEYANCE SYSTEM.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS.
- IT IS RECOMMENDED THAT WASHOUT SYSTEMS BE RESTRICTED TO WASHING CONCRETE FROM MIXER AND PUMP TRUCKS AND NOT USED TO DISPOSE OF EXCESS CONCRETE OR RESIDUAL LOADS DUE TO THE POTENTIAL TO EXCEED THE DESIGN CAPACITY OF THE WASHOUT SYSTEM. SMALL AMOUNTS OF EXCESS OR RESIDUAL CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
- INSTALL SYSTEMS AT STRATEGIC LOCATIONS THAT ARE CONVENIENT AND IN CLOSE PROXIMITY TO WORK AREAS AND IN SUFFICIENT NUMBER TO ACCOMMODATE THE DEMAND FOR DIPOSAL.
- INSTALL SIGNAGE IDENTIFYING THE LOCATION OF CONCRETE WASHOUT SYSTEMS.

LOCATION
- LOCATE CONCRETE WASHOUT SYSTEMS AT LEAST 50 FEET FROM ANY CREEKS, WETLANDS, DITCHEST, KARST FEATURES, OR STORM DRAINS/MANMADE CONVEYANCE SYSTEMS.
- TO THE EXTENT PRACTICAL, LOCATE CONCRETE WASHOUT SYSTEMS IN RELATIVELY FLAT AREAS THAT HAVE ESTABLISHED VEGETATIVE COVER AND DO NOT RECEIVE RUNOFF FROM ADJACENT LAND AREAS.
- LOCATE IN AREAS THAT PROVIDE EASY ACCESS FOR CONCRETE TRUCKS AND OTHER CONSTRUCTION EQUIPMENT.
- LOCATE AWAY FROM OTHER CONSTRUCTION TRAFFIC TO REDUCE THE POTENTIAL FOR DAMAGE TO THE SYSTEM.

GENERAL DESIGN CONSIDERATIONS
- THE STRUCTURE OR SYSTEM SHALL BE DESIGNED TO CONTAIN THE ANTICIPATED WASHOUT WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- THE SYSTEM SHALL BE DESIGNED, TO THE EXTENT PRACTICAL, TO ELIMINATE RUNOFF FROM ENTERING THE WASHOUT SYSTEM.
- RUNOFF FROM A RAINSTORM OR SNOWMELT SHOULD NOT CARRY WASTES AWAY FROM THE WASHOUT LOCATION.
- WASHOUT WILL NOT IMPACT FUTURE LAND USES (I.E., OPEN SPACES, LANDSCAPED AREAS, HOME SITES, PARKS).
- WASHOUT SYSTEMS/CONTAINMENTS MEASURES MAY ALSO BE UTILIZED ON SMALLER INDIVIDUAL BUILDING SITES. THE DESIGN AND SIZE OF THE SYSTEM CAN BE ADJUSTED TO ACCOMMODATE THE EXPECTED CAPACITY.

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
- SELF–CONTAINED STURDY CONTAINMENT SYSTEMS THAT ARE DELIVERED TO A SITE AND LOCATED AT STRATEGIC LOCATIONS FOR CONCRETE DISPOSAL.
- THESE SYSTEMS ARE MANUFACTURED TO RESIST DAMAGE FROM CONSTRUCTION EQUIPMENT AND PROTECT AGAINST LEAKS OR SPILLS.
- MANUFACTURER OR SUPPLIER PROVIDES THE CONTAINERS. THE PROJECT SITE MANAGER MAINTAINS THE SYSTEM OR THE SUPPLIER PROVIDES COMPLETE SERVICE THAT INCLUDES MAINTENANCE AND DISPOSAL.
- UNITS ARE OFTEN AVAILABLE WITH OR WITHOUT RAMPS. UNITS WITH RAMPS LEND THEMSELVES TO ACCOMMODATE PUMP TRUCKS.
- MAINTAIN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED UNITS
THESE UNITS ARE DESIGNED AND INSTALLED ON SITE. THEY TEND TO BE LESS RELIABLE THAN PREFABRICATED SYSTEMS ARE OFTEN PRONE TO FAILURE. CONCRETE WASHOUT SYSTEMS CAN BE CONSTRUCTED ABOVE OR BELOW GRADE. IT IS NOT UNCOMMON TO HAVE A SYSTEM THAT IS PARTLY BELOW GRADE WITH AN ADDITIONAL CONTAINMENT STRUCTURE ABOVE GRADE.
- WASHOUT SYSTEMS SHALL UTILIZE A PIT OR BERMED AREA DESIGNED AND MAINTAINED AT A CAPACITY TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- THE VOLUME OF THE SYSTEM MUST ALSO BE DESIGNED TO CONTAIN RUNOFF THAT DRAINS TO THE SYSTEM AND RAINFALL THAT ENTERS THE SYSTEM FOR A TWO–YEAR FREQUENCY, 24–HOUR STORM EVENT.

BELOW GRADE SYSTEM
- A WASHOUT SYSTEM INSTALLED BELOW GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE PIT MAY BE LIMITED BY THE SIZE OF THE POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE ADEQUATE SIZE TO EXTEND OVER THE ENTIRE EXCAVATION.
- INCLUDE A MINIMUM 12–INCH FREEBOARD TO REASONABLY ENSURE THAT THE STRUCTURE WILL NOT OVERTOP DURING A RAIN EVENT.
- LINE THE PIT WITH TEN MILLIMETER POLYETHYLENE LINING TO CONTROL SEEPAGE.
- THE BOTTOM OF EXCAVATED PIT SHOULD BE ABOVE THE SEASONAL HIGH WATER TABLE.

ABOVE GRADE SYSTEM
- A SYSTEM DESIGNED AND BUILT ABOVE GRADE SHOULD BE A MINIMUM OF TEN FEET WIDE BY TEN FEET LONG, BUT SIZED TO CONTAIN ALL LIQUID AND WASTE THAT IS EXPECTED TO BE GENERATED BETWEEN SCHEDULED CLEANOUT PERIODS. THE SIZE OF THE CONTAINMENT SYSTEM MAY BE LIMITED BY THE SIZE OF POLYETHYLENE AVAILABLE. THE POLYETHYLENE LINING SHOULD BE OF ADEQUATE SIZE TO EXTEND OVER THE BERM OR CONTAINMENT SYSTEM.
- THE SYSTEM DESIGN MAY UTILIZE AN EARTHEN BERM, STRAW BALES, SANDBAGS, OR OTHER ACCEPTABLE BARRIERS THAT WILL MAINTAIN ITS SHAPE AND INTEGRITY AND SUPPORT THE POLYETHYLENE LINING.
- INCLUDE A MINIMUM FOUR–INCH FREEBOARD AS PART OF THE DESIGN.

WASHOUT PROCEDURES
- DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER THE POUR. EVERY EFFORT SHOULD BE MADE TO EMPTY THE CHUTES 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 RESULT IN FLOW TO AN AREA THAT IS TO BE PROTECTED.
- AT THE WASHOUT LOCATION, 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.
- REMOVE AS MUCH MUD AS POSSIBLE WHEN WASHING OUT.
- STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE CONTAINMENT SYSTEM IS LEAKING OR OVERFLOWING AND INEFFECTIVE.
- DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE. BACK FLUSHING SHOULD BE RESTRICTED TO THE PLANT AS IT GENERATES LARGE VOLUMES OF WASTE THAT MORE THAN LIKELY WILL EXCEED THE CAPACITY OF MOST WASHOUT SYSTEMS. IF AN EMERGENCY ARISES, BACK FLUSH SHOULD ONLY BY PERFORMED WITH THE PERMISSION OF AN ON–SITE MANAGER FOR THE PROJECT.
- DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE SOLVENTS OR ACIDS THAT MAY BE USED AT THE TARGET PLANT.

MATERIALS
- MINIMUM OF TEN MILLIMETER POLYETHYLENE SHEETING THAT IS FREE OF HOLES, TEARS, AND OTHER DEFECTS. THE SHEETING SELECTED SHOULD BE OF AN APPROPRIATE SIZE TO FIT THE WASHOUT SYSTEM WITHOUT SEAMS OR OVERLAP OF THE LINING (DESIGNED AND INSTALLED SYSTEMS).
- SIGNAGE.
- ORANGE SAFETY FENCING OR EQUIVALENT.
- STRAW BALES, SANDBAGS (BAGS SHOULD BE ULTRAVIOLET–STABILIZED GEOTEXTILE FABRIC), SOIL MATERIAL, OR OTHER APPROPRIATE MATERIALS THAT CAN BE USED TO CONSTRUCT A CONTAINMENT SYSTEM (ABOVE GRADE SYSTEMS).
- METAL PINS OR STAPLES AT A MINIMUM OF SIX INCHES IN LENGTH, SANDBAGS, OR ALTERNATIVE FASTENER TO SECURE POLYETHYLENE LINING TO THE CONTAINMENT SYSTEM.
- NON–COLLAPSING AND NON–WATER HOLDING COVER FOR USE DURING RAIN EVENTS (OPTIONAL).

INSTALLATION

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS
- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED SYSTEMS
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
- DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
- A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
- INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
- PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
- PLACE A NON–COLLAPSING, NON–WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
- INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
- POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE
- INSPECT DAILY AND AFTER EACH STORM EVENT.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
- THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NO EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FUTURE DEWATERING.
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

CONCRETE WASH OUT
NOT TO SCALE (REV. 11/13)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLW DRAWN: RCB
CHECKED: WAB CHECKED: JLW

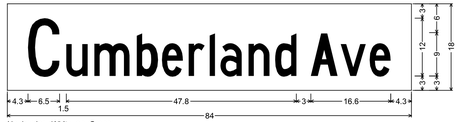
CITY OF WEST LAFAYETTE

EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION NO.

SURVEY BOOK	SHEETS
	66 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14 EDIT DATE: 12/30/13 – 1:09 PM EDITED BY: JWILKERSON DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.151.ECD.DWG
PLOT SCALE: 1:1



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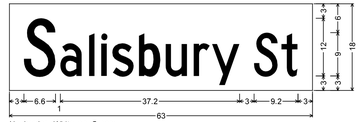

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		3.0	S	5.0	t	0.7	r	3.5	e	3.0																

R3-5(L)
(30"x36")

R3-6(R)
(30"x36")

R10-3b
(9"x12")

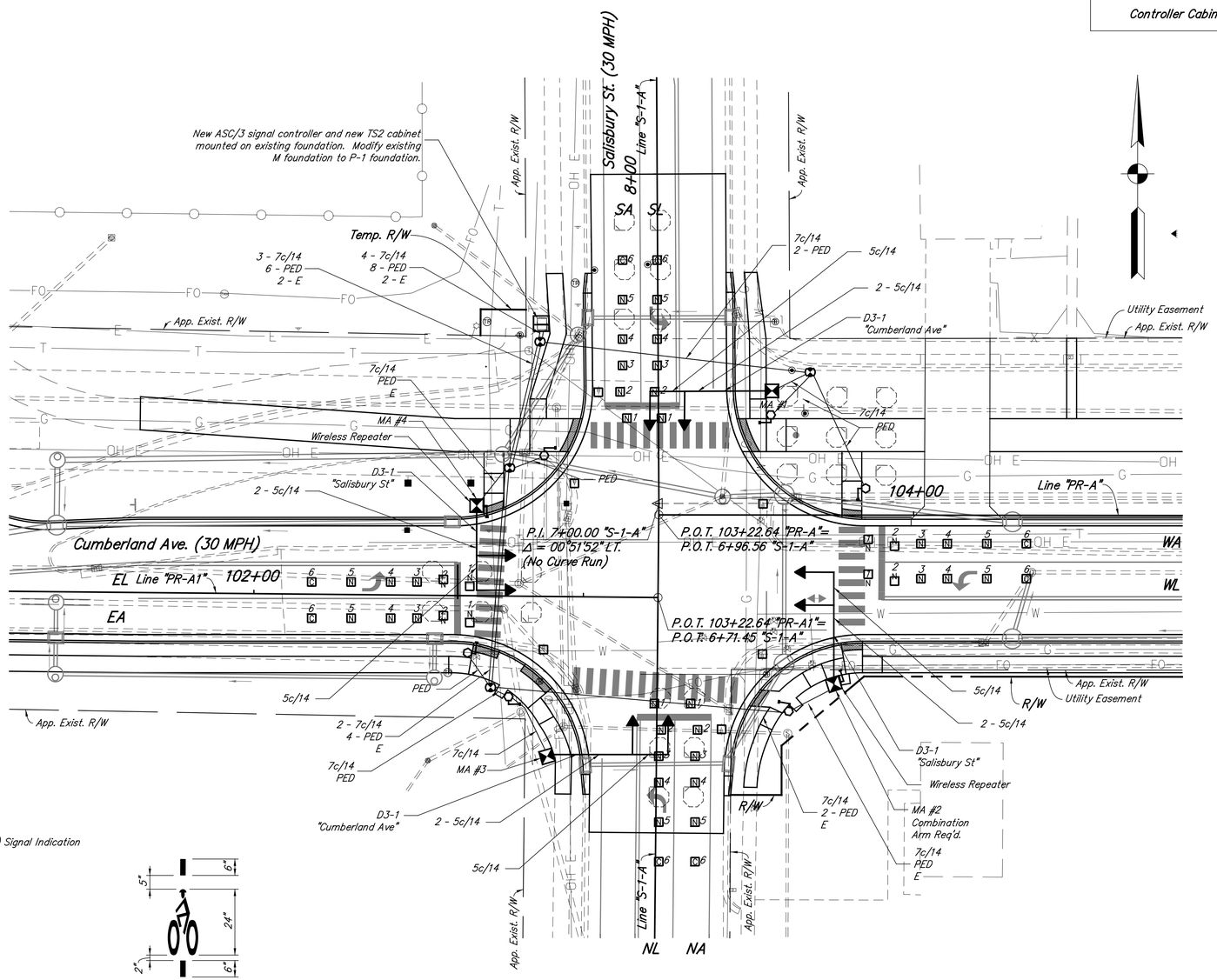
FOUNDATION SCHEDULE

FOUNDATION	CORNER	STATION OFFSET	LENGTH
MA #1 - Foundation Type B	NE	7+34.0 "S-1-A", 34.5' RT.	40 FT.
MA #2 - Foundation Type B	SE	6+45.7 "S-1-A", 53.6' RT.	35 FT.
MA #3 - Foundation Type A	SW	6+22.9 "S-1-A", 33.2' LT.	35 FT.
MA #4 - Foundation Type A	NW	6+98.8 "S-1-A", 55.3' LT.	30 FT.
Controller Cabinet	NW	Existing	--

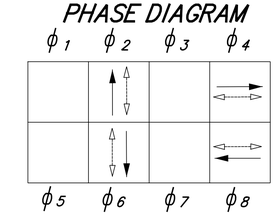
WIRELESS DETECTOR TAGGING TABLE

CHANNEL	TAG NUMBER
1	NL 2 - 1, 2, 3, 4, 5
2*	NL 2 - 6
3	NA 2 - 1, 2, 3, 4, 5
4*	NA 2 - 6
5	WL 8 - 1, 2, 3, 4, 5
6*	WL 8 - 6
7	WA 8 - 1, 2, 3, 4, 5
8*	WA 8 - 6
9	SL 6 - 1, 2, 3, 4, 5
10*	SL 6 - 6
11	SA 6 - 1, 2, 3, 4, 5
12*	SA 6 - 6
13	EL 4 - 1, 2, 3, 4, 5
14*	EL 4 - 6
15	EA 4 - 1, 2, 3, 4, 5
16*	EA 4 - 6

* - Configured as a count detector



PHASE DIAGRAM



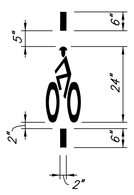
ALL APPROACHES FLASH RED

NOTES:

1. Pavement markings, ground mounted signs, and intersection dimensions are shown here for informational purposes only. See the Pavement Marking and Sign Detail Sheets for construction details.
2. "PED" denotes both a new 5c/14 signal cable and a new 3c/14 signal cable for the pedestrian indication and pedestrian push button, respectively. "E" denotes a new ethernet cable for the wireless detection repeater.
3. All stationing and offsets referenced from Line "S-1-A", unless otherwise noted.
4. Pedestrian signal indications shall have international symbols. An audible and vibrotactile pedestrian push button and an R10-3b pedestrian sign shall accompany each pedestrian signal indication.
5. Signal pole foundations and pedestal foundations shall be constructed with a finished surface that is flush with the proposed sidewalk and/or trail.
6. Handhole and signal pole removal shall be performed in a manner that allows for the existing traffic signal equipment to be used unless and until the proposed traffic signal equipment is operable.
7. An R3-5(L) sign shall be placed to the right of the left turn lane signal heads and an R3-6(R) sign shall be placed to the right of the through/right turn lane signal head on each approach.
8. All existing traffic signal handholes, traffic signal poles, and foundations shall be removed in a manner that allows the signal to remain operable at all times.
9. A contact closure card shall be installed in the existing traffic signal cabinet.

LEGEND

- Existing Detector Housing
- Existing Traffic Loop
- Existing Traffic Handhole
- Existing Cantilever Signal Pole
- Existing Traffic Pedestal
- Existing Controller & Cabinet
- New 3 Section (12 in. Red LED, 12 in. Amber LED, 12 in. Green LED) Signal Indication
- New 10' Pedestal On "A" Foundation
- New Detector Housing
- New Handhole
- New Signal Pole w/ Mast Arm
- New Pedestrian Indication w/ Accessible Push Buttons
- New Conduit, Steel, Galvanized, 2 In., Signal
- New Service Point
- Wireless Vehicle Detector - Presence
- Wireless Vehicle Detector - Count
- Bicycle Detector Marking



Marking Shall Be White Thermoplastic

BICYCLE DETECTOR MARKING DETAIL

Not To Scale

CITY OF
WEST LAFAYETTE

DESIGN ENGINEER DATE

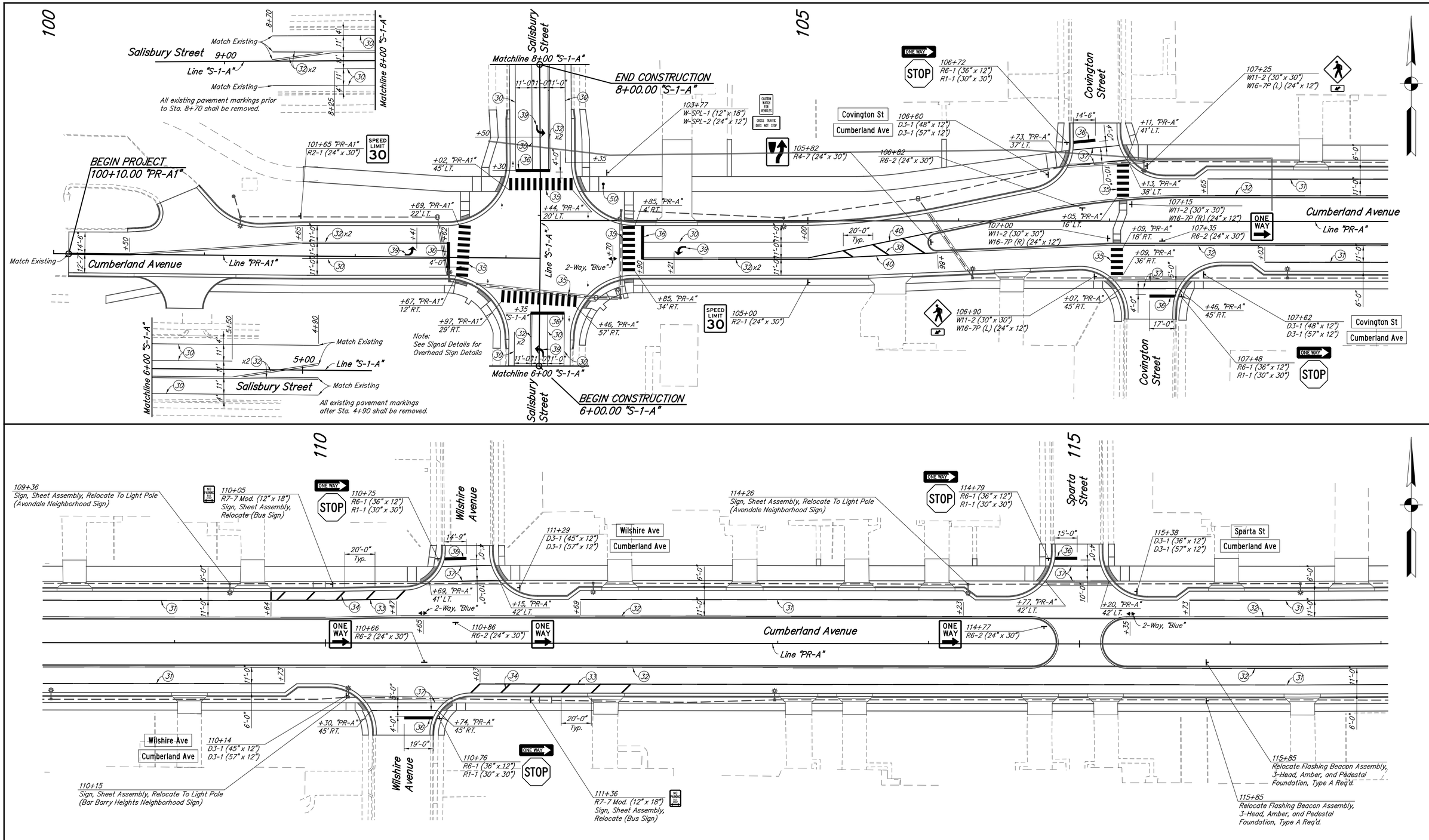
TRAFFIC SIGNAL DETAIL
CUMBERLAND AVENUE
AND SALISBURY STREET

SCALE: 1"=20'

YEAR	SHEET	TOTAL
2014	67	181

CONTRACT NO. | DRAWN BY RJC

COMM. NO. | DES. NO | PROJECT NO.



LEGEND

- (30) Line, Thermoplastic, Solid, White, 4 In.
- (31) Line, Thermoplastic, Solid, White, 6 In.
- (32) Line, Thermoplastic, Solid, Yellow, 4 In.
- (33) Line, Thermoplastic, Solid, White, 8 In.
- (34) Transverse Marking, Thermoplastic, Crosshatch Line, White, 12 In.
- (35) Transverse Marking, Thermoplastic, Crosswalk, White, 24 In.
- (36) Transverse Marking, Thermoplastic, Stop Line, 24 In.
- (37) Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 In.
- (38) Transverse Marking, Thermoplastic, Crosshatch Line, Yellow, 12 In.
- (39) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (40) Line, Thermoplastic, Solid, Yellow, 8 In.
- (50) Hinged Bollard System
- ◆▶ Snowplowable Raised Pavement Marker

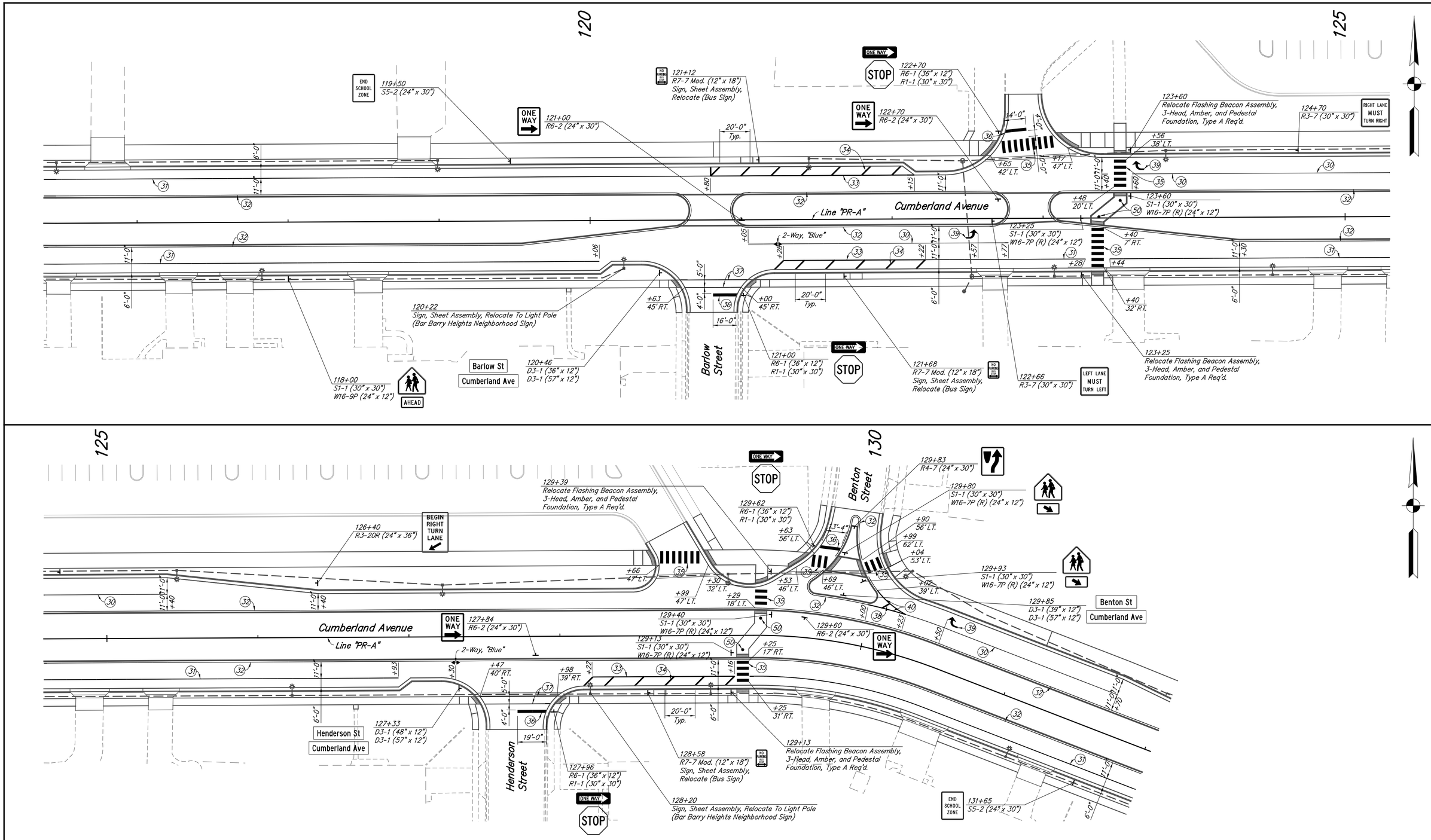
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

PAVEMENT MARKING AND SIGN DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	68 of 181
PROJECT NO.	



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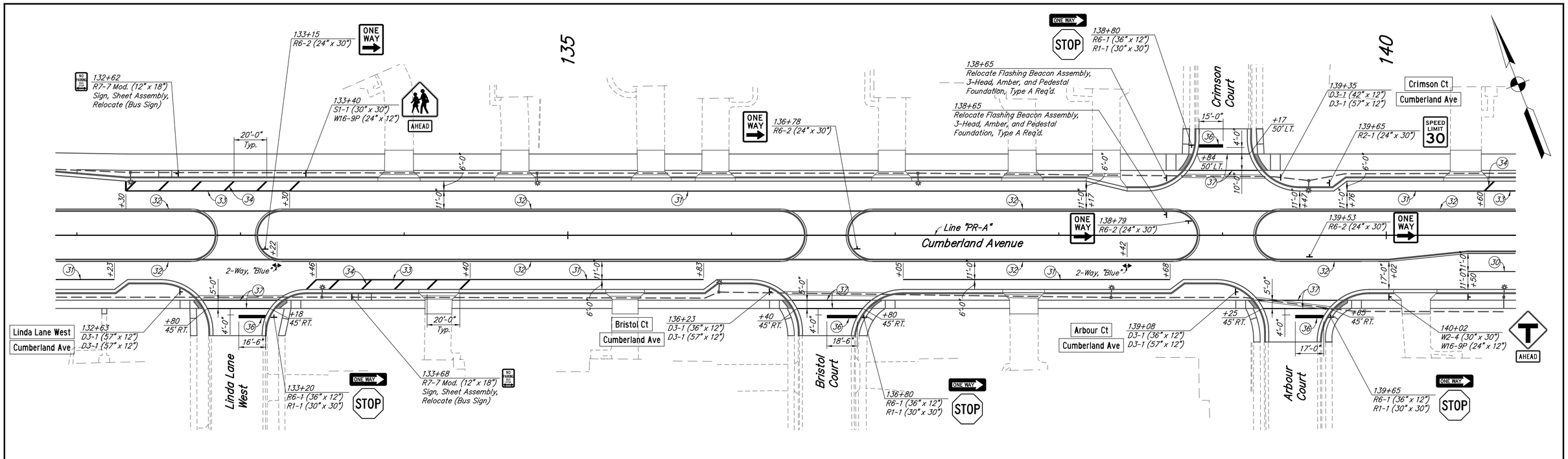
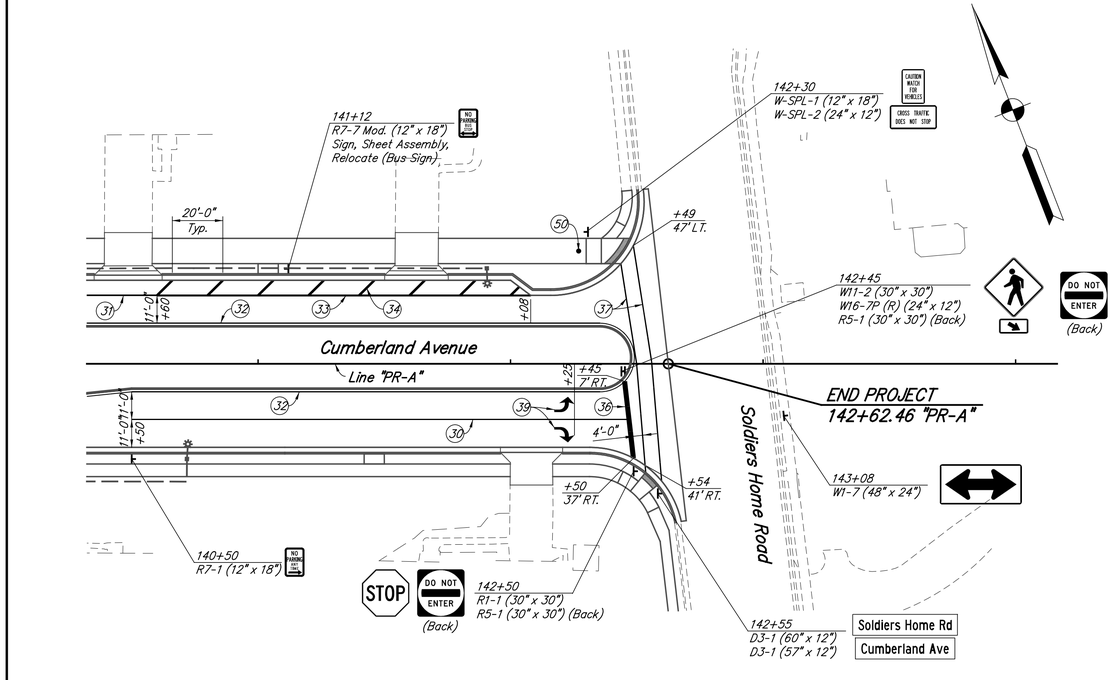
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

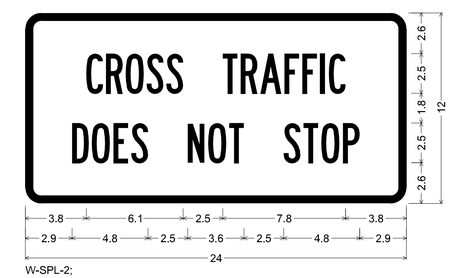
PAVEMENT MARKING AND SIGN DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	69 of 181
PROJECT NO.	





W-SPL-1;
0.5" Inner border Black, 1.0" Radius,
0.5" Outer border, Yellow on Yellow;
[CAUTION] Black B 50% spacing;
[WATCH] Black B 50% spacing;
[FOR] Black B 50% spacing;
[VEHICLES] Black B 50% spacing;



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[DOES NOT STOP] Black B 50% spacing;

LEGEND

- (30) Line, Thermoplastic, Solid, White, 4 In.
- (31) Line, Thermoplastic, Solid, White, 6 In.
- (32) Line, Thermoplastic, Solid, Yellow, 4 In.
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

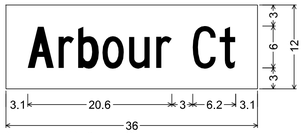
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

PAVEMENT MARKING AND SIGN DETAILS

HORIZONTAL SCALE	
1" = 30'	
VERTICAL SCALE	
	SHEETS
	70 of 181
	PROJECT NO.

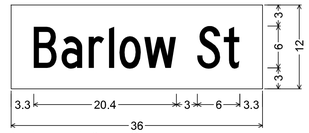
nmurphy 5/8/2014 10:25:06 AM P:*2013*00985*D. Drawings*201300985.RD.PM.PR-A.03.dgn



No border, White on Green;
[Arbour Ct] C 50% spacing;
Table of widths and spaces.

	A		r		b		o		u		r	
3.1	3.8	0.6	2.3	0.5	3.0	0.5	3.1	0.7	3.0	0.9	2.2	

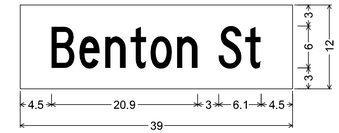
	C		t	
3.0	3.3	0.6	2.3	3.1



No border, White on Green;
[Barlow St] C 50% spacing;
Table of widths and spaces.

	B		a		r		l		o		w	
3.3	3.2	0.7	3.0	0.9	2.2	0.6	0.9	0.7	3.1	0.5	4.6	

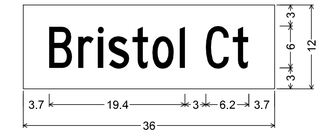
	S		t	
3.0	3.2	0.6	2.2	3.3



No border, White on Green;
[Benton St] C 50% spacing;
Table of widths and spaces.

	B		e		n		t		o		n	
4.5	3.3	0.7	2.9	0.8	2.9	0.7	2.3	0.6	3.0	0.8	2.9	

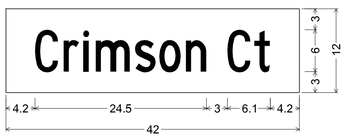
	S		t	
3.0	3.3	0.5	2.3	4.5



No border, White on Green;
[Bristol Ct] C 50% spacing;
Table of widths and spaces.

	B		r		i		s		t		o		l	
3.7	3.3	0.9	2.2	0.6	0.8	0.7	3.0	0.4	2.3	0.6	3.0	0.8	0.8	

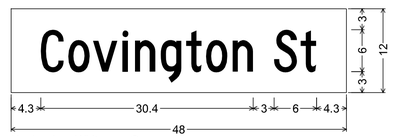
	C		t	
3.0	3.3	0.6	2.3	3.7



No border, White on Green;
[Crimson Ct] C 50% spacing;
Table of widths and spaces.

	C		r		i		m		s		o		n	
4.2	3.2	0.8	2.3	0.6	0.8	0.9	5.0	0.7	2.9	0.5	3.1	0.8	2.9	

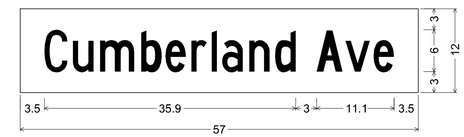
	C		t	
3.0	3.3	0.6	2.2	4.2



No border, White on Green;
[Covington St] C 50% spacing;
Table of widths and spaces.

	C		o		v		i		n		g		t		o		n	
4.3	3.2	0.7	3.0	0.5	3.6	0.6	0.9	0.9	3.0	0.7	3.0	0.7	2.3	0.5	3.1	0.7	3.0	

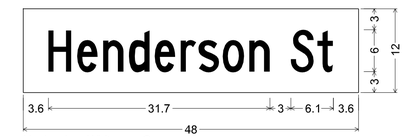
	S		t	
3.0	3.2	0.6	2.2	4.3



No border, White on Green;
[Cumberland Ave] C 50% spacing;
Table of widths and spaces.

	C		u		m		b		e		r		l		a		n		d	
3.5	3.3	0.8	2.9	0.9	5.0	0.9	3.0	0.5	2.9	0.8	2.2	0.6	0.9	0.7	3.0	0.9	2.9	0.8	2.9	

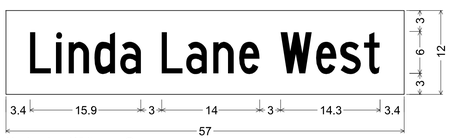
	A		v		e	
3.0	3.8	0.4	3.5	0.5	2.9	3.5



No border, White on Green;
[Henderson St] C 50% spacing;
Table of widths and spaces.

	H		e		n		d		e		r		s		o		n	
3.6	3.3	0.8	3.0	0.7	3.0	0.7	3.0	0.7	3.0	0.7	2.3	0.3	2.9	0.6	3.0	0.8	2.9	

	S		t	
3.0	3.3	0.5	2.3	3.6



No border, White on Green;
[Linda Lane West] C 50% spacing;
Table of widths and spaces.

	L		i		n		d		a	
3.4	3.0	0.8	0.8	1.0	2.9	0.8	2.9	0.8	2.9	

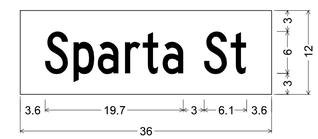
	L		a		n		e	
3.0	3.0	0.5	2.9	1.0	2.9	0.8	2.9	

	W		e		s		t		
3.0	4.5	0.6	2.9	0.5	3.0	0.5	2.3	3.4	

No border, White on Green;
[Soldiers Home Rd] C 50% spacing;
Table of widths and spaces.

	S		o		l		d		i		e		r		s	
3.3	3.3	0.6	3.0	0.8	0.8	0.8	2.9	1.0	0.8	0.8	2.9	0.8	2.2	0.3	3.0	

	H		o		m		e		R		d			
3.0	3.2	0.9	3.0	0.8	4.9	0.8	2.9	3.0	3.3	0.6	3.0	3.3		



No border, White on Green;
[Sparta St] C 50% spacing;
Table of widths and spaces.

	S		p		a		r		t		a	
3.6	3.3	0.7	3.0	0.5	3.0	0.9	2.2	0.3	2.3	0.6	2.9	

	S		t	
3.0	3.3	0.5	2.3	3.6

No border, White on Green;
[Wilshire Ave] C 50% spacing;
Table of widths and spaces.

	W		i		l		s		h		i		r		e	
3.8	4.5	0.6	0.9	0.9	0.9	0.6	3.0	0.7	3.0	0.9	0.9	0.9	2.2	0.4	2.9	

	A		v		e	
3.0	3.8	0.4	3.5	0.5	2.9	3.8

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
CHECKED: MJM CHECKED: MJM

CITY OF
WEST LAFAYETTE

PAVEMENT MARKING AND
SIGN DETAILS

HORIZONTAL SCALE	
Not To Scale	
VERTICAL SCALE	

	SHEETS
	71 of 181
	PROJECT NO.

SHEET SIGN & POST SUMMARY

SIGN								POST									COMMENTS
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE					
								POST LENGTH		POST LENGTH		2" x 2" - 12 GA. (TYPE 2)			2¼" x 2¼" - 12 GA. (TYPE 1)		
												REINFORCED ANCHOR			REINFORCED ANCHOR		
				0.080"	0.100"	0.125"	0.080"	1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT.)			POST LENGTH (FT.)		
								FT.		FT.	FT.	1	2	TOTAL	1	TOTAL	
Line "PR-A1"																	
	101+65 Lt.	R2-1	24 x 30	5.00											10.0	10.0	
Line "PR-A"																	
	103+77 Lt.	W-SPL-1	12 x 18	1.50											10.0	10.0	
		W-SPL-2	24 x 12	2.00													
	105+00 Rt.	R2-1	24 x 30	5.00											10.0	10.0	
	105+82 Rt.	R4-7	24 x 30	5.00											10.0	10.0	
	106+60 Lt.	D3-1	48 x 12		4.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	106+72 Lt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	106+82 Lt.	R6-2	24 x 30	5.00											10.0	10.0	
	106+90 Rt.	W11-2	30 x 30	6.25											11.0	11.0	
		W16-7P(L)	24 x 12	2.00													
	107+00 Rt.	W11-2	30 x 30	6.25											11.0	11.0	
		W16-7P(R)	24 x 12	2.00													
	107+15 Lt.	W11-2	30 x 30	6.25											11.0	11.0	
		W16-7P(R)	24 x 12	2.00													
	107+25 Lt.	W11-2	30 x 30	6.25											11.0	11.0	
		W16-7P(L)	24 x 12	2.00													
	107+35 Rt.	R6-2	24 x 30	5.00											10.0	10.0	
	107+48 Rt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	107+62 Rt.	D3-1	48 x 12		4.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	109+36 Lt.	Relocate															Relocate Existing Neighborhood Sign to Light Pole
	110+05 Lt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0	Arrow shall be modified to point both left and right
		Relocate															Relocate Existing Bus Stop Sign
	110+14 Rt.	D3-1	45 x 12		3.75										9.5	9.5	
		D3-1	57 x 12		4.75												
	110+15 Rt.	Relocate															Relocate Existing Neighborhood Sign to Light Pole
	110+66 Rt.	R6-2	24 x 30	5.00											10.0	10.0	
	110+75 Lt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	110+76 Rt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	110+86 Lt.	R6-2	24 x 30	5.00											10.0	10.0	
	111+29 Lt.	D3-1	45 x 12		3.75										9.5	9.5	
		D3-1	57 x 12		4.75												
	TOTALS			98.00	46.50											216.00	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SHEET SIGN & POST SUMMARY

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 72 of 181

PROJECT NO.

SHEET SIGN & POST SUMMARY

SIGN								POST									COMMENTS
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE 2" x 2" - 12 GA. (TYPE 2)			SQUARE 2¼" x 2¼" - 12 GA. (TYPE 1)		
								POST LENGTH		POST LENGTH		REINFORCED ANCHOR POST LENGTH (FT.)			REINFORCED ANCHOR POST LENGTH (FT.)		
				0.080"	0.100"	0.125"	0.080"	1 FT.	2	TYPE "A" FT.	TYPE "B" FT.	1	2	TOTAL	1	TOTAL	
Line "PR-A"																	
	111+36 Rt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0	Arrow shall be modified to point both left and right
		Relocate															Relocate Existing Bus Stop Sign
	114+26 Lt.	Relocate															Relocate Existing Neighborhood Sign to Light Pole
	114+77 Lt.	R6-2	24 x 30	5.00											10.0	10.0	
	114+79 Lt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	115+38 Lt.	D3-1	36 x 12		3.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	115+85 Rt.	Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
		Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	118+00 Rt.	S1-1	30 x 30	6.25											11.0	11.0	
		W16-9P	24 x 12	2.00													
	119+50 Lt.	S5-2	24 x 30	5.00											10.0	10.0	
	120+22 Rt.	Relocate															Relocate Existing Neighborhood Sign to Light Pole
	120+46 Rt.	D3-1	36 x 12		3.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	121+00 Rt.	R6-2	24 x 30	5.00											10.0	10.0	
	121+00 Rt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	121+12 Lt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0	Arrow shall be modified to point both left and right
		Relocate															Relocate Existing Bus Stop Sign
	121+68 Rt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0	Arrow shall be modified to point both left and right
		Relocate															Relocate Existing Bus Stop Sign
	122+66 Rt.	R3-7	30 x 30	6.25											10.0	10.0	
	122+70 Lt.	R6-2	24 x 30	5.00											10.0	10.0	
	122+70 Lt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	123+25 Rt.	S1-1	30 x 30	6.25											11.0	11.0	
		W16-7P(R)	24 x 12	2.00													
	123+25 Rt.	Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	123+60 Lt.	S1-1	30 x 30	6.25											11.0	11.0	
		W16-7P(R)	24 x 12	2.00													
	123+60 Lt.	Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	124+70 Lt.	R3-7	30 x 30	6.25											10.0	10.0	
	126+40 Lt.	R3-20R	24 x 36	6.00											10.5	10.5	
	127+33 Rt.	D3-1	48 x 12		4.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	127+84 Rt.	R6-2	24 x 30	5.00											10.0	10.0	
	TOTALS			91.50	33.25											205.00	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SHEET SIGN & POST SUMMARY

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 73 of 181

PROJECT NO.

SHEET SIGN & POST SUMMARY

SIGN								POST										COMMENTS
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE						
												2" x 2" - 12 GA. (TYPE 2)			$2\frac{1}{4}$" x $2\frac{1}{4}$" - 12 GA. (TYPE 1)			
								POST LENGTH		POST LENGTH		REINFORCED ANCHOR			REINFORCED ANCHOR			
								1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT.)			POST LENGTH (FT.)			
				0.080"	0.100"	0.125"	0.080"	FT.		FT.	FT.	1	2	TOTAL	1	TOTAL		
Line "PR-A"																		
	127+96 Rt.	R6-1	36 x 12		3.00										11.0	11.0		
		R1-1	30 x 30	6.25														
	128+20 Rt.	Relocate																Relocate Existing Neighborhood Sign to Light Pole
	128+58 Rt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0		Arrow shall be modified to point both left and right
		Relocate																Relocate Existing Bus Stop Sign
	129+13 Rt.	S1-1	30 x 30	6.25											11.0	11.0		
		W16-7P(R)	24 x 12	2.00														
	129+13 Rt.	Relocate																Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	129+39 Lt.	Relocate																Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	129+40 Lt.	S1-1	30 x 30	6.25											11.0	11.0		
		W16-7P(R)	24 x 12	2.00														
	129+60 Lt.	R6-2	24 x 30	5.00											10.0	10.0		
	129+62 Lt.	R6-1	36 x 12		3.00										11.0	11.0		
		R1-1	30 x 30	6.25														
	129+80 Lt.	S1-1	30 x 30	6.25											11.0	11.0		
		W16-7P(R)	24 x 12	2.00														
	129+83 Lt.	R4-7	24 x 30	5.00											10.0	10.0		
	129+85 Lt.	D3-1	39 x 12		3.25										9.5	9.5		
		D3-1	57 x 12		4.75													
	129+93 Lt.	S1-1	30 x 30	6.25											11.0	11.0		
		W16-7P(R)	24 x 12	2.00														
	131+65 Rt.	S5-2	24 x 30	5.00											10.0	10.0		
	132+62 Lt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0		Arrow shall be modified to point both left and right
		Relocate																Relocate Existing Bus Stop Sign
	132+63 Rt.	D3-1	57 x 12		4.75										9.5	9.5		
		D3-1	57 x 12		4.75													
	133+15 Rt.	R6-2	24 x 30	5.00											10.0	10.0		
	133+20 Rt.	R6-1	36 x 12		3.00										11.0	11.0		
		R1-1	30 x 30	6.25														
	133+40 Lt.	S1-1	30 x 30	6.25											11.0	11.0		
		W16-9P	24 x 12	2.00														
	133+68 Rt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0		Arrow shall be modified to point both left and right
		Relocate																Relocate Existing Bus Stop Sign
	136+23 Rt.	D3-1	36 x 12		3.00										9.5	9.5		
		D3-1	57 x 12		4.75													
	136+78 Rt.	R6-2	24 x 30	5.00											10.0	10.0		
	136+80 Rt.	R6-1	36 x 12		3.00										11.0	11.0		
		R1-1	30 x 30	6.25														
	TOTALS			95.75	37.25											207.50		

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SHEET SIGN & POST SUMMARY

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 74 of 181

PROJECT NO.

SHEET SIGN & POST SUMMARY

SIGN								POST									COMMENTS
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE					
								POST LENGTH		POST LENGTH		2" x 2" - 12 GA. (TYPE 2)			2¼" x 2¼" - 12 GA. (TYPE 1)		
												REINFORCED ANCHOR			REINFORCED ANCHOR		
								1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT.)			POST LENGTH (FT.)		
				0.080"	0.100"	0.125"	0.080"	FT.		FT.	FT.	1	2	TOTAL	1	TOTAL	
Line "PR-A"																	
	138+65 Lt.	Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	138+65 Lt.	Relocate															Relocate Existing Flashing Beacon Assembly, New Pedestal Foundation Req'd.
	138+79 Lt.	R6-2	24 x 30	5.00											10.0	10.0	
	138+80 Lt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	139+08 Rt.	D3-1	36 x 12		3.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	139+35 Lt.	D3-1	42 x 12		3.50										9.5	9.5	
		D3-1	57 x 12		4.75												
	139+53 Rt.	R6-2	24 x 30	5.00											10.0	10.0	
	139+65 Lt.	R2-1	24 x 30	5.00											10.0	10.0	
	139+65 Rt.	R6-1	36 x 12		3.00										11.0	11.0	
		R1-1	30 x 30	6.25													
	140+02 Rt.	W2-4	30 x 30	6.25											11.0	11.0	
		W16-9P	24 x 12	2.00													
	140+50 Rt.	R7-1	12 x 18	1.50											9.0	9.0	
	141+12 Lt.	R7-7 Mod.	12 x 18	1.50											10.0	10.0	Arrow shall be modified to point both left and right
		Relocate															Relocate Existing Bus Stop Sign
	142+30 Lt.	W-SPL-1	12 x 18	1.50											10.0	10.0	
		W-SPL-2	24 x 12	2.00													
	142+45 Rt.	W11-2	30 x 30	6.25											11.0	11.0	
		W16-7P(R)	24 x 12	2.00													
		R5-1	30 x 30	6.25													Mounted on Back of Sign Post
	142+50 Rt.	R1-1	30 x 30	6.25											10.0	10.0	
		R5-1	30 x 30	6.25													Mounted on Back of Sign Post
	142+55 Rt.	D3-1	60 x 12		5.00										9.5	9.5	
		D3-1	57 x 12		4.75												
	143+08 Rt.	W1-7	48 x 24		8.00										9.5	9.5	
	TOTALS			69.25	39.75											151.00	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SHEET SIGN & POST SUMMARY

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 75 of 181

PROJECT NO.

SHEET SIGN & POST SUMMARY

SIGN								POST										
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN, AREA (SFT)	U CHANNEL				SQUARE					COMMENTS
												2" x 2" - 12 GA. (TYPE 2)			2¼" x 2¼" - 12 GA. (TYPE 1)		
								POST LENGTH		POST LENGTH		REINFORCED ANCHOR			REINFORCED ANCHOR		
								1	2	TYPE "A"	TYPE "B"	POST LENGTH (FT.)			POST LENGTH (FT.)		
				0.080"	0.100"	0.125"	0.080"	FT.		FT.	FT.	1	2	TOTAL	1	TOTAL	
Line "PR-A"																	
	Signal Overhead	*D3-1*	*63 x 18*			*7.88*											*Salisbury St - See Signal Detail Sheet for Sign Placement*
		D3-1	*63 x 18*			*7.88*											*Salisbury St - See Signal Detail Sheet for Sign Placement*
		D3-1	*84 x 18*			*10.50*											*Cumberland Ave - See Signal Detail Sheet for Sign Placement*
		D3-1	*84 x 18*			*10.50*											*Cumberland Ave - See Signal Detail Sheet for Sign Placement*
		R3-5(L)	*30 x 36*	*7.50*													*Left Only - See Signal Detail Sheet for Sign Placement*
		R3-5(L)	*30 x 36*	*7.50*													*Left Only - See Signal Detail Sheet for Sign Placement*
		R3-5(L)	*30 x 36*	*7.50*													*Left Only - See Signal Detail Sheet for Sign Placement*
		R3-5(L)	*30 x 36*	*7.50*													*Left Only - See Signal Detail Sheet for Sign Placement*
		R3-6(R)	*30 x 36*	*7.50*													*Right/Thru - See Signal Detail Sheet for Sign Placement*
		R3-6(R)	*30 x 36*	*7.50*													*Right/Thru - See Signal Detail Sheet for Sign Placement*
		R3-6(R)	*30 x 36*	*7.50*													*Right/Thru - See Signal Detail Sheet for Sign Placement*
		R3-6(R)	*30 x 36*	*7.50*													*Right/Thru - See Signal Detail Sheet for Sign Placement*
	Pedestrian Crossing	*R10-3b*	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
		R10-3b	*9 x 12*	*0.75*													*See Signal Detail Sheet for Sign Placement*
	Parking Lot																
		R7-8 Mod.	*12 x 18*	*1.50*											*11.5*	*11.5*	*ADA Accessible Parking Sign*
		R7-8 Mod.	*12 x 18*	*1.50*											*11.5*	*11.5*	*ADA Accessible Parking Sign*
		R7-8 Mod.	*12 x 18*	*1.50*											*11.5*	*11.5*	*ADA Accessible Parking Sign*
	TOTALS			*70.50*		*36.76*										*34.50*	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SHEET SIGN & POST SUMMARY

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 76 of 181

PROJECT NO.

MAILBOX ASSEMBLY TABLE

LOCATION		DESCRIPTION	WIDTH (ft)	MAILBOX ASSEMBLIES REQUIRED		MAILBOX RESET
LT or RT	℄ BOX STATION			SINGLE	DOUBLE	
Line "PR-A"						
Rt.	105+35	Mailbox Before Drive		1		
Rt.	106+50	Mailbox Beyond Drive		1		
Rt.	109+24	Mailbox Beyond Drive		1		
Rt.	112+00	Mailbox Beyond Drive		1		
Rt.	113+30	Mailbox Beyond Drive		1		
Rt.	113+65	Mailbox Beyond Drive		1		
Rt.	114+88	Mailbox Beyond Drive		1		
Rt.	115+32	Mailbox Beyond Drive		1		
Rt.	116+63	Mailbox Beyond Drive		1		
Rt.	117+43	Mailbox Beyond Drive		1		
Rt.	117+84	Mailbox Beyond Drive		1		
Rt.	118+70	Mailbox Beyond Drive		1		
Rt.	119+80	Mailbox Before Sidewalk		1		
Rt.	121+55	Mailbox Before Sidewalk		1		
Rt.	122+83	Mailbox Beyond Drive		1		
Rt.	123+74	Mailbox Beyond Drive		1		
Rt.	124+71	Mailbox Before Drive		1		
Rt.	125+51	Mailbox Beyond Drive		1		
Rt.	126+60	Mailbox Before Sidewalk		1		
Rt.	129+91	Mailbox Beyond Drive		1		
Rt.	130+76	Mailbox Beyond Drive		1		
Rt.	131+52	Mailbox Beyond Drive		1		
Rt.	132+10	Mailbox Before Sidewalk		1		
Rt.	134+36	Mailbox Beyond Drive		1		
Rt.	135+50	Mailbox Beyond Drive		1		
Rt.	137+96	Mailbox Beyond Drive		1		
Rt.	140+36	Mailbox Beyond Drive		1		
Rt.	141+70	Mailbox Before Drive		1		
Lt.	104+40	Mailbox Before Drive		1		
Lt.	106+40	Mailbox Before Sidewalk		1		
Lt.	108+17	Mailbox Beyond Drive		1		
Lt.	109+34	Mailbox Beyond Drive		1		
Lt.	112+10	Mailbox Before Drive		1		
Lt.	112+93	Mailbox Before Drive		1		
Lt.	113+37	Mailbox Beyond Drive		1		
Lt.	113+91	Mailbox Beyond Drive		1		
Lt.	116+13	Mailbox Before Drive		1		
Lt.	117+00	Mailbox Before Drive		1		
Lt.	133+80	Mailbox Beyond Drive		1		
Lt.	134+50	Mailbox Beyond Drive		1		
Lt.	135+35	Mailbox Beyond Drive		1		
Lt.	136+05	Mailbox Before Drive		1		
Lt.	136+83	Mailbox Beyond Drive		1		
Lt.	137+62	Mailbox Beyond Drive		1		
Lt.	140+32	Mailbox Beyond Drive		1		
Lt.	141+47	Mailbox Beyond Drive		1		
		Total =		46		

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

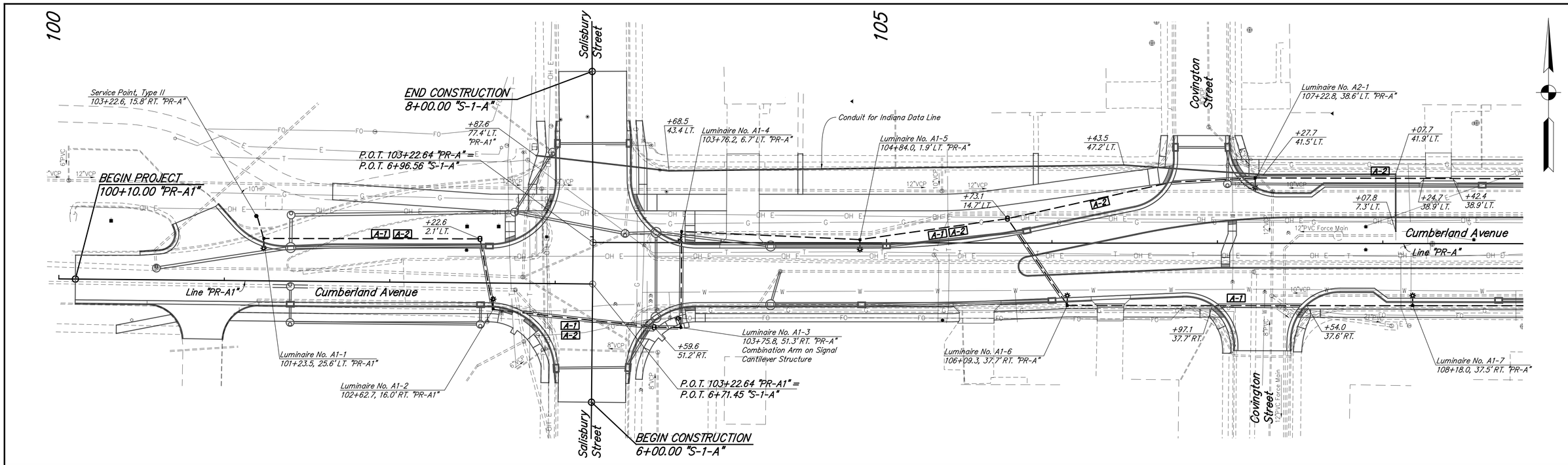
DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

MISCELLANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION NO.
N/A	
SURVEY BOOK	SHEETS
	77 of 181
CONTRACT	PROJECT NO.



LEGEND

- Service Point
- Handhole, Lighting
- Luminaire, 110 Watt, LED, 4' Mast Arm (See Special Provisions)
- A-1 Lighting Circuit Number
- Wire, No. 4 Copper in Plastic Duct, in Trench, 4-1C
- Wire No. 4 Copper in Plastic Duct, in Conduit, 4-1C & Conduit, Steel, Galvanized, 2 in., Lighting
- Conduit, PVC, 2 in., for Indiana Data Line

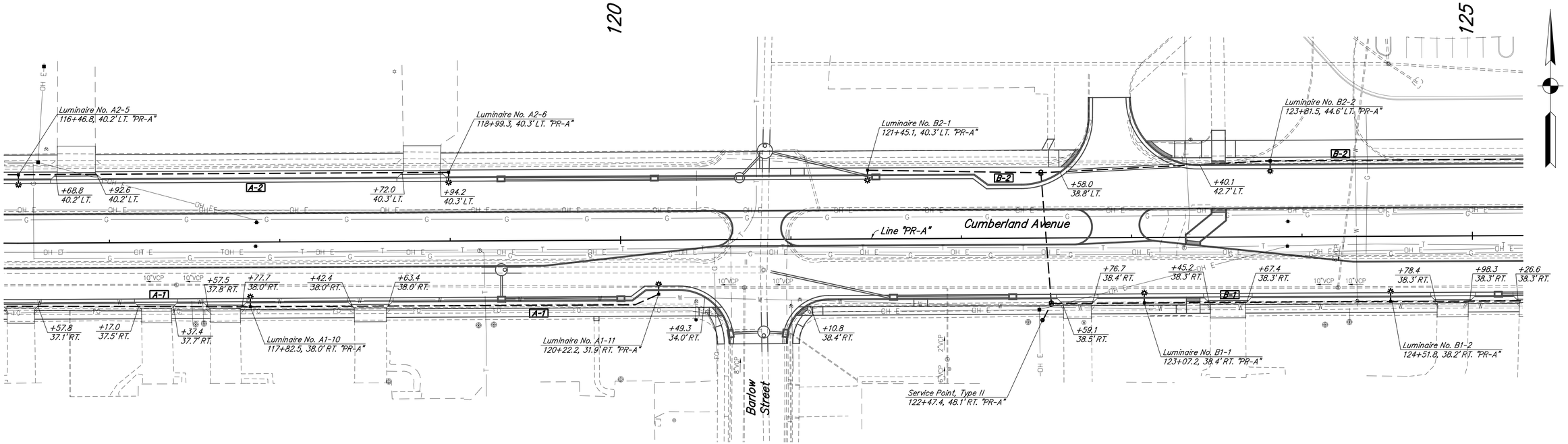
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMJ	DRAWN: AMJ
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

LIGHTING DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	78 of 181
PROJECT NO.	



LEGEND

- Service Point
- Handhole, Lighting
- Luminaire, 110 Watt, LED, 4' Mast Arm (See Special Provisions)
- A-7 Lighting Circuit Number
- Wire, No. 4 Copper in Plastic Duct, in Trench, 4-1C
- Wire No. 4 Copper in Plastic Duct, in Conduit, 4-1C & Conduit, Steel, Galvanized, 2 in., Lighting
- Conduit, PVC, 2 in., for Indiana Data Line

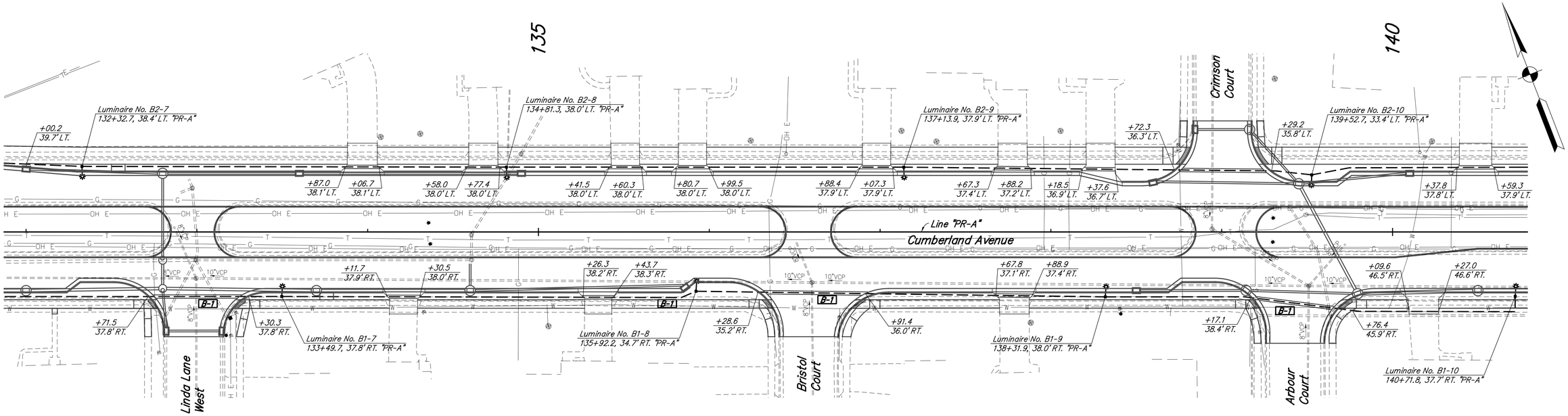
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

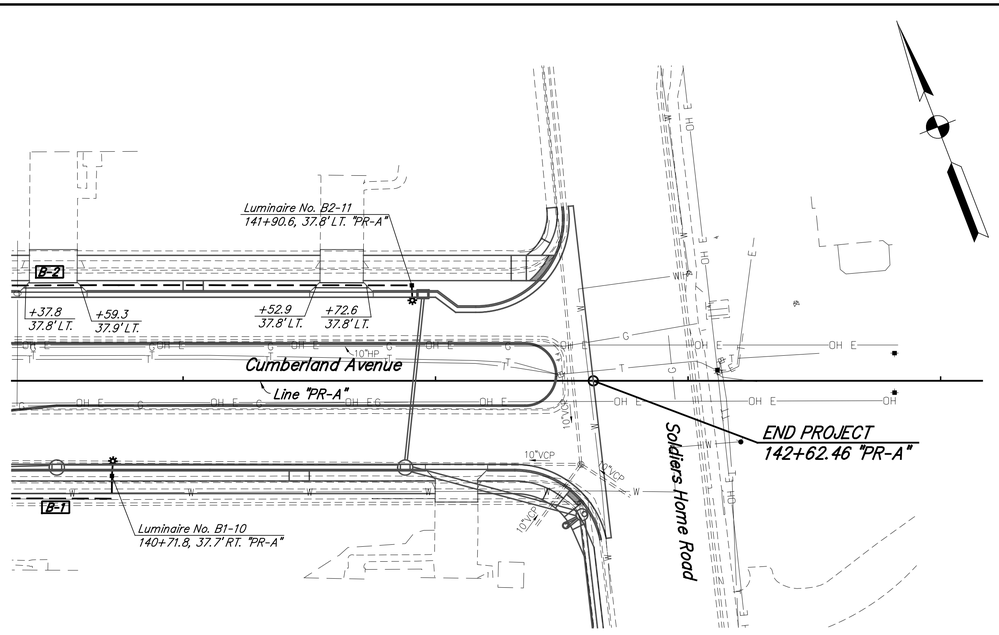
DESIGNED: AMJ	DRAWN: AMJ
CHECKED: MJM	CHECKED: MJM

CITY OF WEST LAFAYETTE

LIGHTING DETAILS

HORIZONTAL SCALE	1" = 30'
VERTICAL SCALE	
SHEETS	79 of 181
PROJECT NO.	





LEGEND

- Service Point
- Handhole, Lighting
- Luminaire, 110 Watt, LED, 4' Mast Arm (See Special Provisions)
- A-7 Lighting Circuit Number
- Wire, No. 4 Copper in Plastic Duct, in Trench, 4-1C
- Wire No. 4 Copper in Plastic Duct, in Conduit, 4-1C & Conduit, Steel, Galvanized, 2 in., Lighting
- Conduit, PVC, 2 in., for Indiana Data Line

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

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CITY OF WEST LAFAYETTE

LIGHTING DETAILS

HORIZONTAL SCALE	
1" = 30'	
VERTICAL SCALE	
SHEETS	
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PROJECT NO.	

nmurphy 5/8/2014 10:25:12 AM P:*2013*00985*D. Drawings*201300985.RD.LT.PR-A.03.dgn

LUMINAIRE TABLE

LUMINAIRE NO.		A1-1	A1-2	A1-3	A1-4	A1-5	A1-6	A1-7	A1-8	A1-9	A1-10	A1-11	A2-1	A2-2	A2-3	A2-4	A2-5	A2-6	B1-1	B1-2	B1-3	B1-4	B1-5	B1-6	B1-7	B1-8	B1-9	B1-10	B2-1	B2-2
FOUNDATION TYPE		Std.	Std.	Comb.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
CIRCUIT CONNECTION		A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-1	A-2	A-2	A-2	A-2	A-2	A-2	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	B2-1	B2-1
CONNECTION TYPE		//	//	//	//	//	//	//	//	//	//	/	//	//	//	//	//	/	//	//	//	//	//	//	//	//	//	/	/	//
MAST ARM LENGTH (FT)		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ELEVATION		1	1	1	-0.2	0	-0.87	0.43	0.3	0.2	0.77	0.6	0.74	1.34	1.4	0.78	1	1	0	0.5	0.41	0.93	0.9	0.7	0.53	0.3	0.3	0.7	0.96	1.1
POLE SET BACK (FT)		-26	16	51	-7	-2	38	38	36	37	38	32	-39	-39	-40	-40	-40	-40	38	38	38	38	39	38	38	35	38	38	-40	-45
SHOULDER WIDTH (FT)																														
LUMINAIRE E.M.H. (FT)		21	21	21	19.8	20	19.13	20.43	20.3	20.2	20.77	20.6	20.74	21.34	21.4	20.78	21	21	20	20.5	20.41	20.93	20.9	20.7	20.53	20.3	20.3	20.7	20.96	21.1
SET BACK FROM	FACE OF CURB																													
	LINE	"PR-A1"	"PR-A1"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"
	RAMP																													
SEE NOTES																														

LUMINAIRE TABLE

LUMINAIRE NO.		B2-3	B2-4	B2-5	B2-6	B2-7	B2-8	B2-9	B2-10	B2-11																				
FOUNDATION TYPE		Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.																				
CIRCUIT CONNECTION		B2-1	B2-1	B2-1	B2-1	B2-1	B2-1	B2-1	B2-1	B2-1																				
CONNECTION TYPE		//	//	//	//	//	//	//	//	/																				
MAST ARM LENGTH (FT)		4	4	4	4	4	4	4	4	4																				
ELEVATION		1.1	0.9	1	1.3	0.93	0.9	1.3	0.8	0.9																				
POLE SET BACK (FT)		-45	-34	-41	-57	-38	-38	-38	-33	-38																				
SHOULDER WIDTH (FT)																														
LUMINAIRE E.M.H. (FT)		21.1	20.9	21	21.3	20.93	20.9	21.3	20.8	20.9																				
SET BACK FROM	FACE OF CURB																													
	LINE	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"	"PR-A"																				
	RAMP																													
SEE NOTES																														

SERVICE POINT AMP TABLE

SERVICE POINT	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPS	BRANCH CIRCUIT BREAKER
A	60 Amp	A-1	5.0	20 AMP
		A-2	2.7	20 AMP
B	60 Amp	B-1	4.5	20 AMP
		B-2	5.0	20 AMP

DESIGN DATA TABLE

INITIAL LAMP LUMEN (LL) 110 WATT LED	N/A
AVERAGE MAINTAINED ILLUMINATION (fc)	0.7
LAMP LUMEN DEPRECIATION FACTOR (LLD)	0.90
LUMINAIRE DIRT DEPRECIATION FACTOR (LDD)	0.87
MAINTENANCE FACTOR (LLD * LDD)	0.78
UNIFORMITY RATIO	N/A
MOUNTING HEIGHT, CONVENTIONAL	20 LFT.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMJ DRAWN: AMJ

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

LUMINAIRE TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE

SHEETS 81 of 181

PROJECT NO.

STRUCTURE DATA TABLE					
STR. NO.	STRUCTURE AND CASTING TYPE	TOP OF RIM	INVERT	SIZE / TYPE	DIRECTION
AQS – 1	AQUASWIRL AS–3	704.05			
STR–01	DITCH INLET	704.31	700.35	12" RCP	E
STR–02	DITCH INLET	704.40	700.52 700.52	18" RCP 18" RCP	E W
STR–03	DITCH INLET	704.12	700.13 700.21 700.13	18" RCP 12" RCP 18" RCP	E W N
STR–04	DITCH INLET	704.18	700.87	18" RCP	W
STR–05	CATCH BASIN	703.81	700.12 700.12 700.11	18" RCP 18" RCP 18" RCP	E S N
STR–06	NEW MH OVER EXISTING STORM SEWER SEE DETAIL MANHOLE TYPE B	704.15	699.99	18" RCP	S
STR–07	CATCH BASIN	703.85	700.31 700.31	18" RCP 18" RCP	E W
STR–08	CATCH BASIN	703.96	700.50 700.50	18" RCP 18" RCP	E W
STR–09	CATCH BASIN	704.23	700.69	18" RCP	W
STR–11	SEE DETAIL CASTING: R–1878–B10L OUTLET CONTROL: ORIFICE PLATE INVERT = 700.09 ORIFICE DIA. = 15" DIVERSION WEIR: TOP OF WEIR = 700.70	703.96	700.09 700.04	18" RCP 18" RCP	S N

PIPE DATA TABLE						
STRUCT. NO.	INV.	L.F.	SIZE & TYPE	STRUCT. NO.	INV.	GRADE %
	M.E.	6	18" RCP		M.E.	M.E.
STR–02	700.52	190	18" RCP	STR–03	700.13	0.20%
STR–03	700.13	6	18" RCP	STR–05	700.12	0.17%
STR–03	700.21	88	12" RCP	STR–01	700.35	0.16%
STR–04	700.87	190	18" RCP	STR–02	700.52	0.18%
STR–05	700.11	9	18" RCP	STR–11	700.09	0.22%
STR–07	700.31	95	18" RCP	STR–05	700.12	0.20%
STR–08	700.50	126	18" RCP	STR–07	700.31	0.15%
STR–09	700.69	126	18" RCP	STR–08	700.50	0.15%
STR–11	700.04	12	18" RCP	STR–06	699.99	0.43%

GENERAL UTILITY NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM, SANITARY AND WATER LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOF ROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUB–GRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.

30' 0' 30' 60'

SCALE: 1" = 30'

PROPOSED UTILITY LEGEND

- SS — SANITARY SEWER LINE
- STORM DRAIN (RCP SEWER)
- G — GAS LINE
- E — ELECTRIC LINE
- T — TELEPHONE LINE
- W — WATER LINE
- GM — GAS METER
- SANITARY CLEANOUT CONNECTION
- VALVE
- PROPOSED WATER FITTINGS
- WM — WATER METER
- MANHOLE
- (A) FIRE HYDRANT ASSEMBLY W/ 6" VALVE
- (B) 12" WATER MAIN (C900)
- (C) BLOW–OFF VALVE
- (D) 6" PVC SDR–35 SANITARY LATERAL @ 1.04% MIN.
- (E) SANITARY CLEANOUT
- (F) SANITARY TIE–IN TO BUILDING PLUMBING SEE ARCH PLANS FOR DETAILS
- (G) SANITARY LATERAL CONNECTION

EXISTING LEGEND

- BEEHIVE INLET
- CURB INLET
- STORM MANHOLE
- MANHOLE
- SANITARY MANHOLE
- SIGN
- TRAFFIC POLE
- TRAFFIC MANHOLE
- TRAFFIC PEDESTAL
- TRAFFIC HAND HOLE
- DETECTOR HOUSING
- POST
- UTILITY POLE
- POWER POLE
- LIGHT POLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- ELECTRIC METER
- TRANSFORMER
- WATER VALVE
- FIRE HYDRANT
- o STAND PIPE
- ohe OVERHEAD ELECTRIC LINE
- e BURIED ELECTRIC LINE
- w BURIED WATER LINE
- ctv BURIED TELEVISION LINE
- t BURIED TELEPHONE LINE
- (##) IDENTIFIES EXCEPTION NO. FROM SCHEDULE B – SEC. II OF COMMITMENT FOR TITLE INSURANCE
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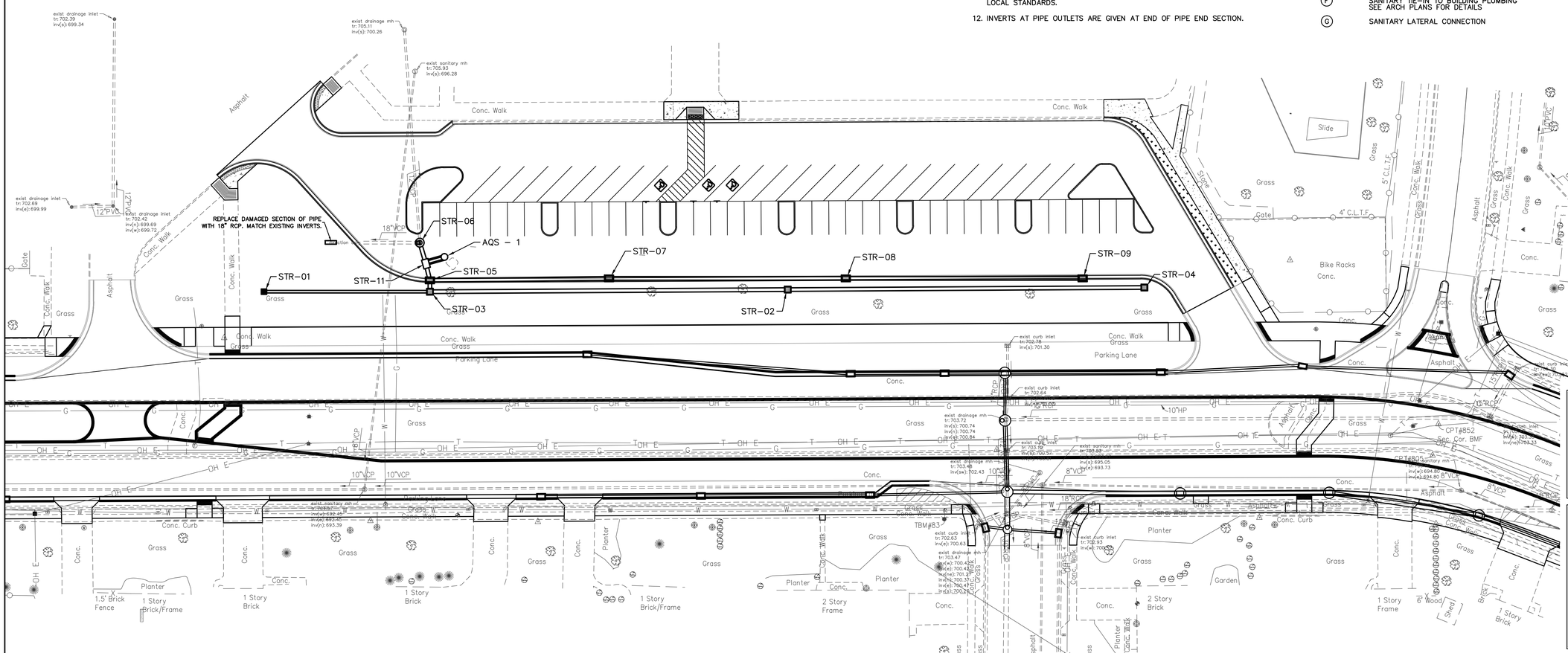

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DESIGNED: JLW DRAWN: RCB
CHECKED: WAB CHECKED: JLW

CITY OF WEST LAFAYETTE

UTILITY PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.

SURVEY BOOK	SHEETS
	82 of 181
CONTRACT	PROJECT NO.

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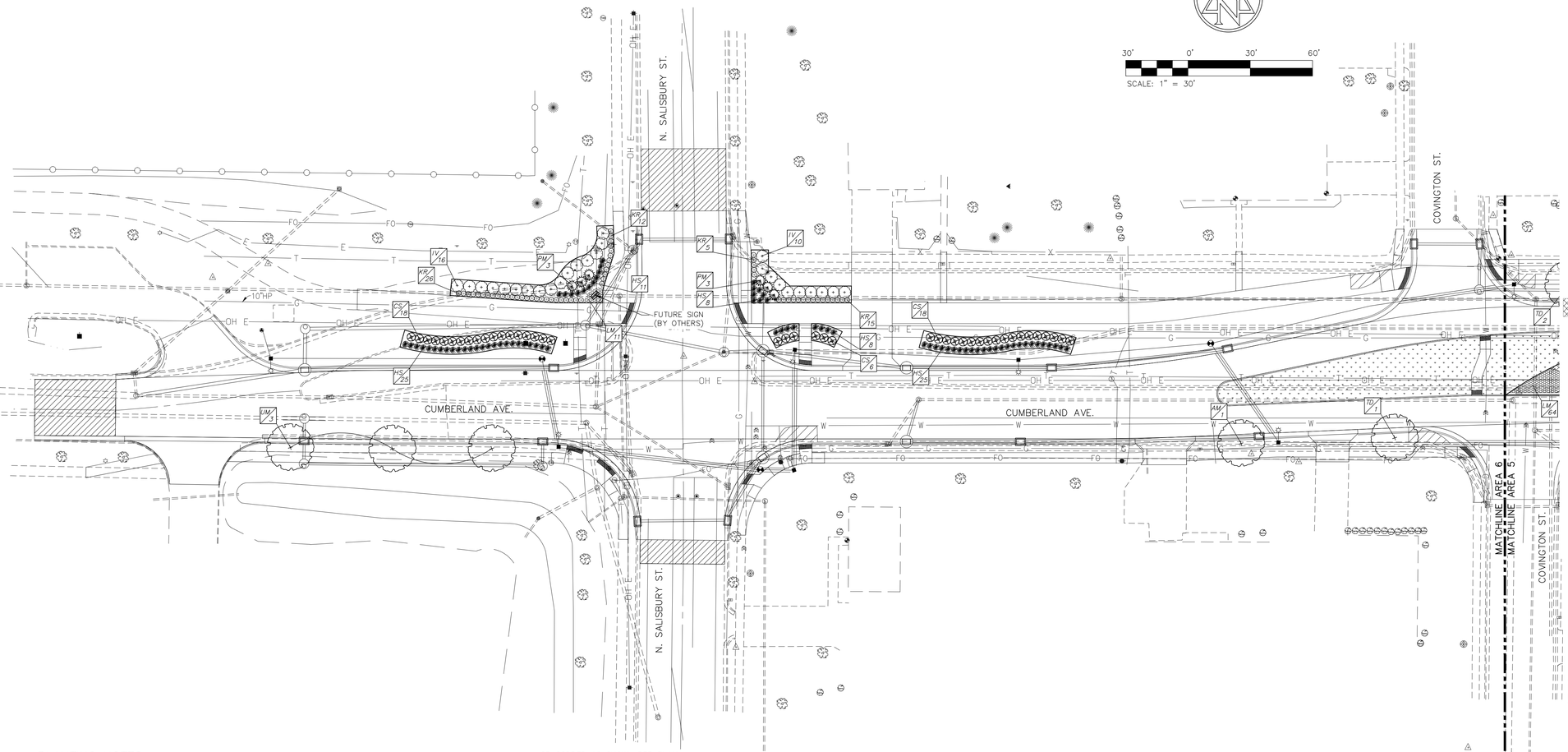

EXISTING LEGEND

- BEEHIVE INLET
- CURB INLET
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- MANHOLE
- SANITARY MANHOLE
- SIGN
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- TRAFFIC MANHOLE
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- DECIDUOUS TREE
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- AREA TO RECEIVE SOD (REFER TO ROAD PLANS FOR SOD AREAS OUTSIDE OF MEDIAN)
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- PLANT TAG ID AND QUANTITY (REFER TO PLANTING SCHEDULE ON SHEET C7.6)

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2. A MINIMUM OF 4" OF TOPSOIL SHALL BE PLACED ON ALL AREAS TO BE SEEDED/SODDED AND 12" FOR PLANTING BEDS. USE SUITABLE TOPSOIL FROM STOCKPILED SITE STRIPPING. TOPSOIL SHALL BE FREE FROM SUBSOIL, VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL, AS DETERMINED BY SOILS ENGINEER, FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
3. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
4. ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH AND GEOTEXTILE FILTER FABRIC FOR WEED CONTROL. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURER'S RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
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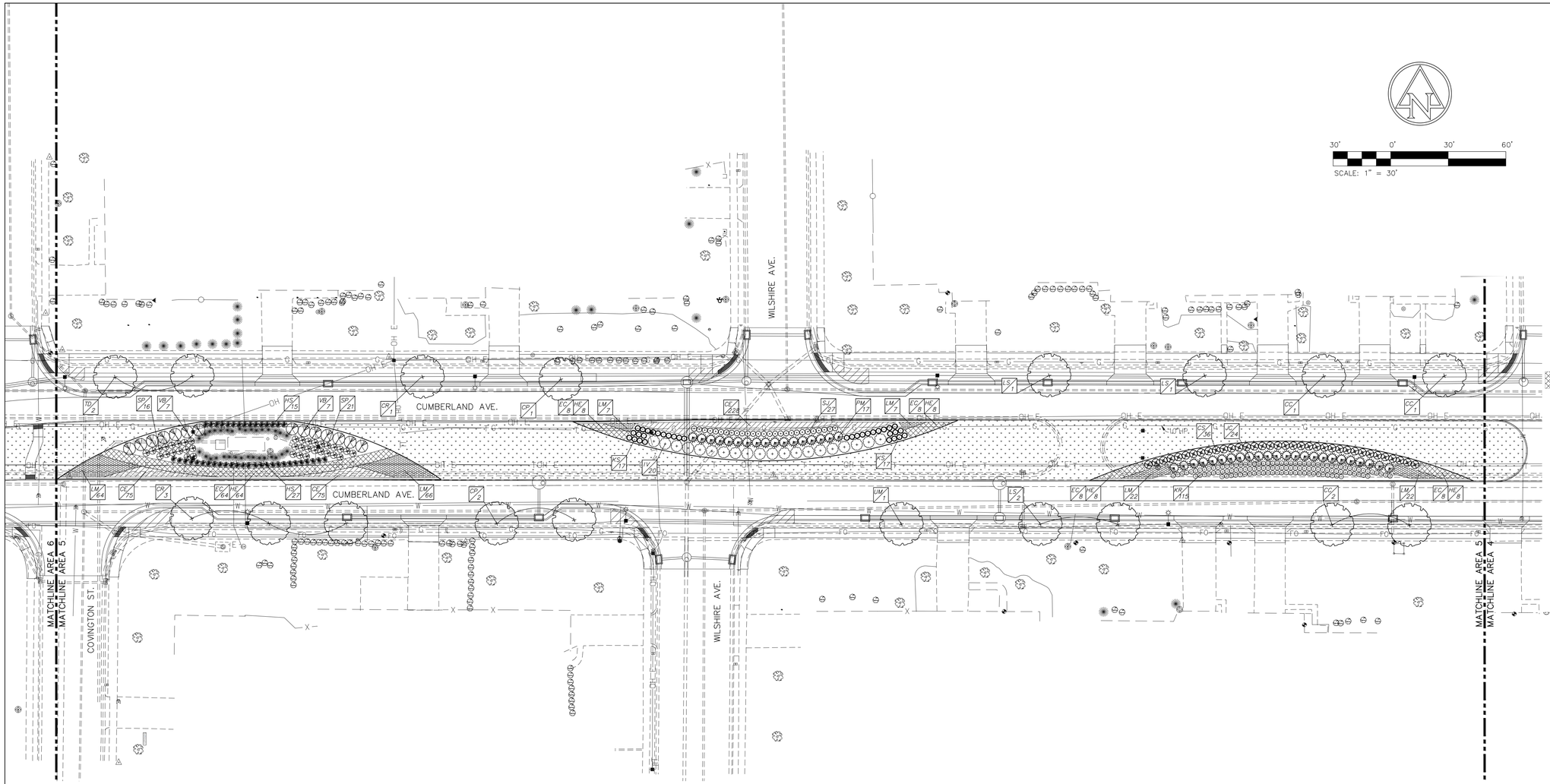

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LANDSCAPE PLAN

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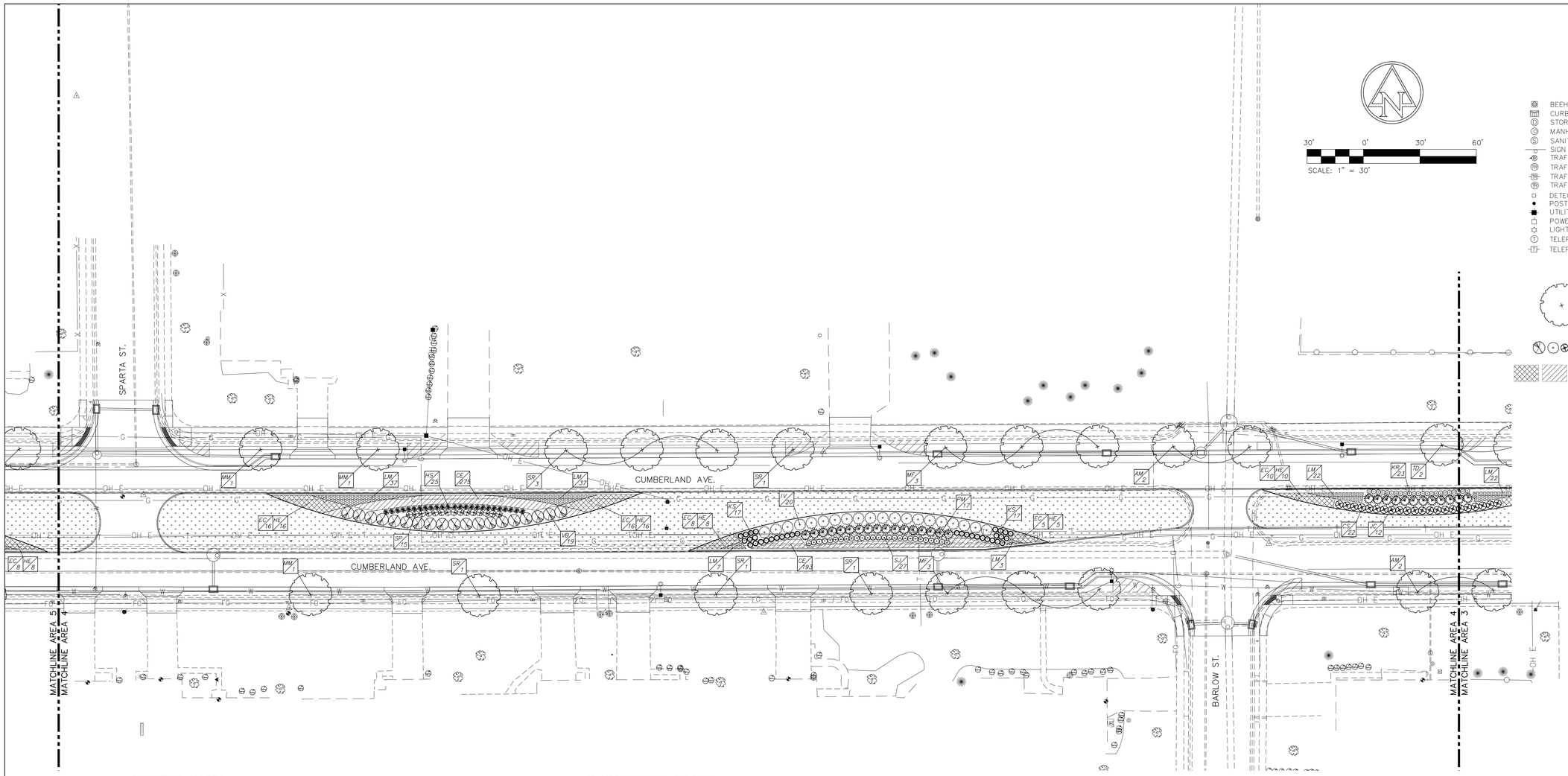

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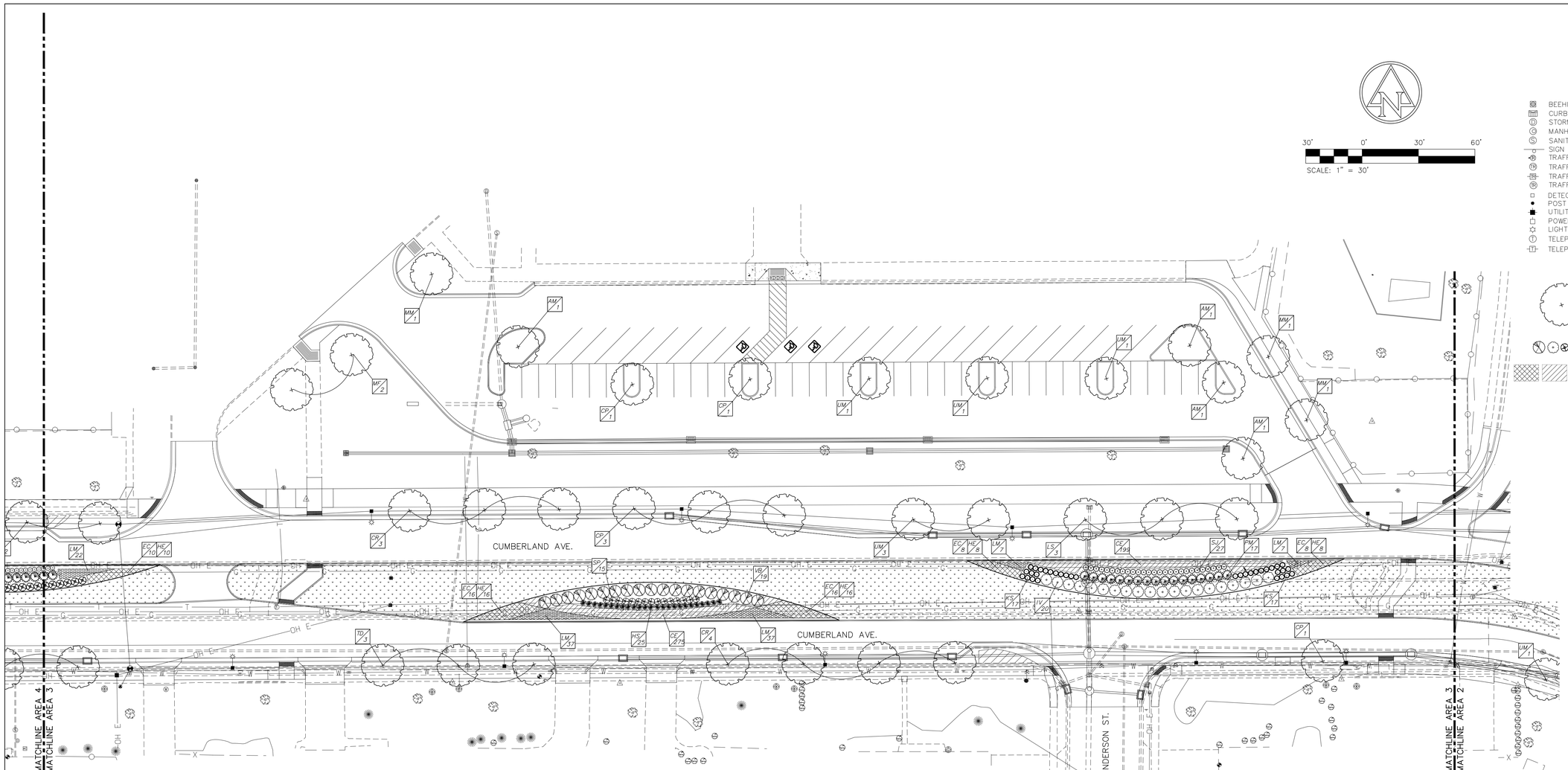

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CITY OF WEST LAFAYETTE

LANDSCAPE PLAN

HORIZONTAL SCALE	BRIDGE FILE
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SURVEY BOOK	SHEETS
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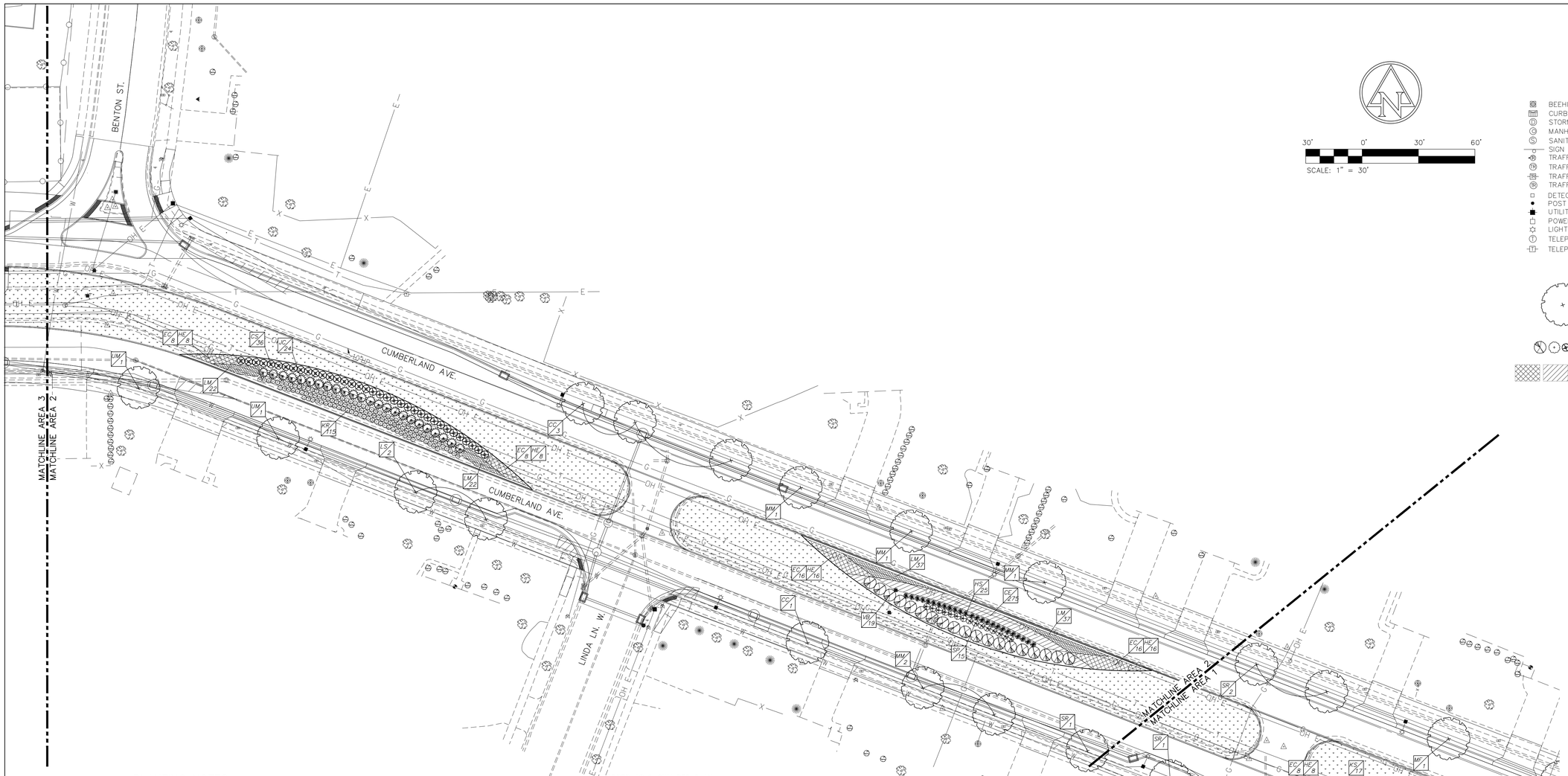

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- CURB INLET
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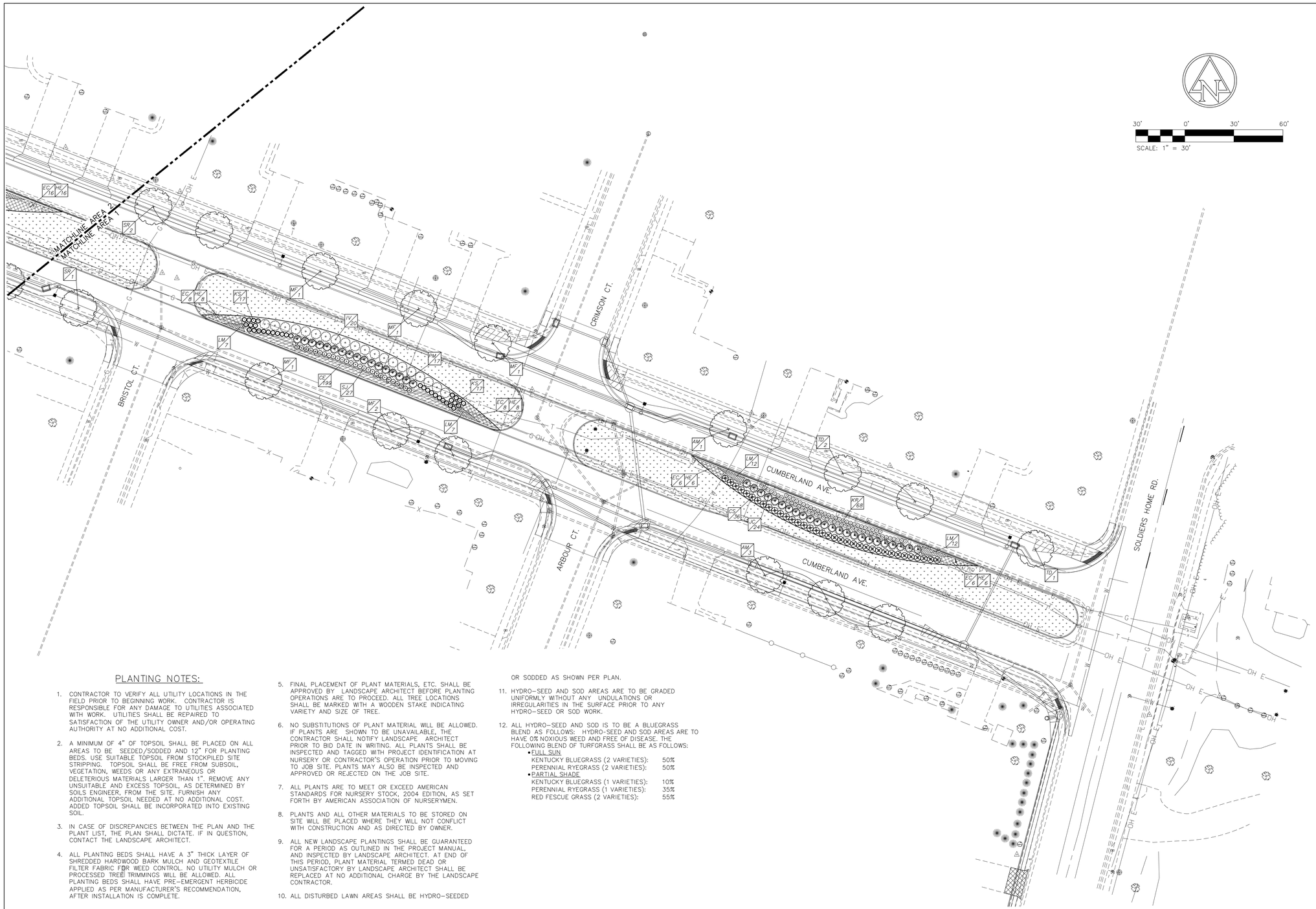

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PLANTING SCHEDULE

KEY	QTY.**	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	REMARKS
TREES					
AM	13	Amelanchier canadensis	Shadblow Serviceberry	2.0" cal.	B&B Strong Central Leader
CC	8	Carpinus caroliniana	American Hornbeam	2.0" cal.	B&B Strong Central Leader
CP	9	Crataegus phaenopyrum	Washington Hawthorn	2.0" cal.	B&B Strong Central Leader
CR	11	Crateagus crusgalli 'Cruzan'	Crusader Hawthorn	2.0" cal.	B&B Strong Central Leader
LS	9	Liquidambar styraciflua 'Ward'	Cherokee Sweetgum	2.0" cal.	B&B Strong Central Leader
MF	14	Malus 'Jewelcole'	Red Jewel Crabapple	2.0 cal.	B&B Strong Central Leader
MM	11	Malus "Schmidtcutleaf"	Golden Raindrops Crabapple	2.0" cal.	B&B Strong Central Leader
SR	11	Syringa reticulata "Ivory Silk"	Ivory Silk Tree Lilac	2.0" cal.	B&B Strong Central Leader
TD	11	Taxodium distichum "Michelson"	Shawnee Brave Bald Cypress	2.0" cal.	B&B Strong Central Leader
UM	12	Ulmus 'Morton Glossy'	Triumph Elm	2.0" cal.	B&B Strong Central Leader
SHRUBS					
CS	172	Cornus sericea 'Farrow'	Arctic Fire Red Twig Dogwood	No. 5	Container, full Matching
IV	106	Ilex verticillata 'Winter Red'	Winter Red Winterberry	No. 5	Container, full, matching Provide 2-3 male plants 'Jim Dandy' per row
JC	84	Juniper chinensis 'Kallay's Compact'	Kallay's Compact Pfitzer Juniper	18" height	Container, full Matching
KR	379	Rosa 'Meigalpio'	The Red Drift Rose	No. 3	Container, full Matching
KS	136	Rosa 'Radsunny'	Sunny Knockout Rose	No. 3	Container, full Matching
PM	74	Pinus mugo 'Mops'	Dwarf Mountain Pine	No. 3	Container, full Matching
SJ	108	Spiraea japonica 'Little Princess'	Little Princess Spirea	No. 2	Container, full Matching

KEY	QTY.**	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	REMARKS
SHRUBS (continued)					
SP	82	Syringa x 'Penda' PPAF	Bloomerang Dwarf Lilac	No. 3	Container, full Matching
VB	71	Viburnum x burkwoodii 'Conoy'	Conoy Burkwood Viburnum	No. 3	Container, full Matching
PERENNIALS					
CE	1794	Ceratostigma plumbaginoides	Plumbago	2-1/4"	Peat Pots Triangular Spacing at 18" o.c.
EC	285	Echinacea purpurea "White Swan'	Purple Coneflower	No. 1	Container, Mix with 'HE' Triangular Spacing at 30" o.c.
HE	285	Hemerocallis 'Purple Bicolor'	Purple Bicolor Daylily	No. 1	Container, Mix with 'EC' Triangular Spacing at 30" o.c.
LM	571	Liriope muscari 'Big Blue'	Variegated Lilyturf	No. 1	Container Triangular Spacing at 24" o.c.
ORNAMENTAL GRASSES					
HS	194	Helictotrichon sempervirens	Blue Oat Grass	No. 1	Container

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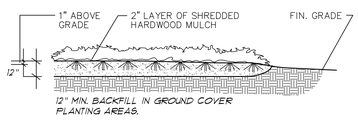

PERENNIAL/GROUND COVER PLANTING DETAIL
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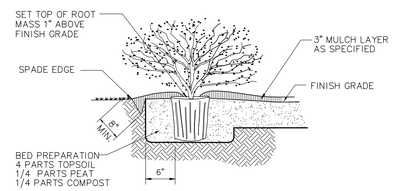

SHRUB PLANTING DETAIL
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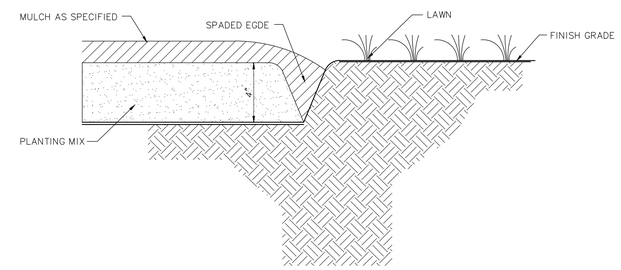

LANDSCAPE
SPADED EDGE DETAIL
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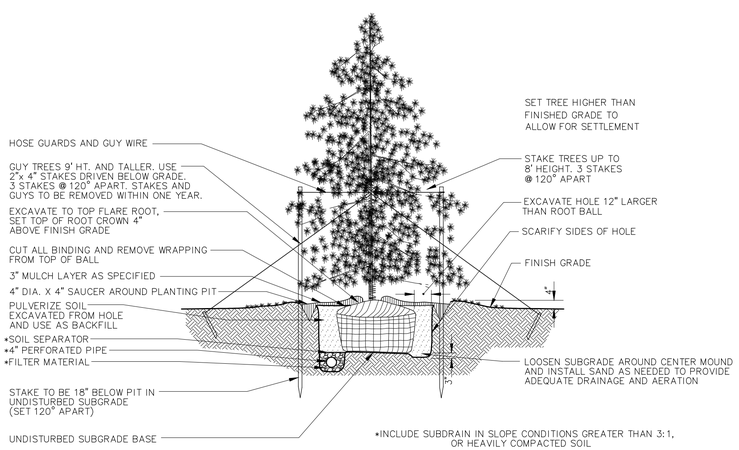

EVERGREEN TREE PLANTING DETAIL
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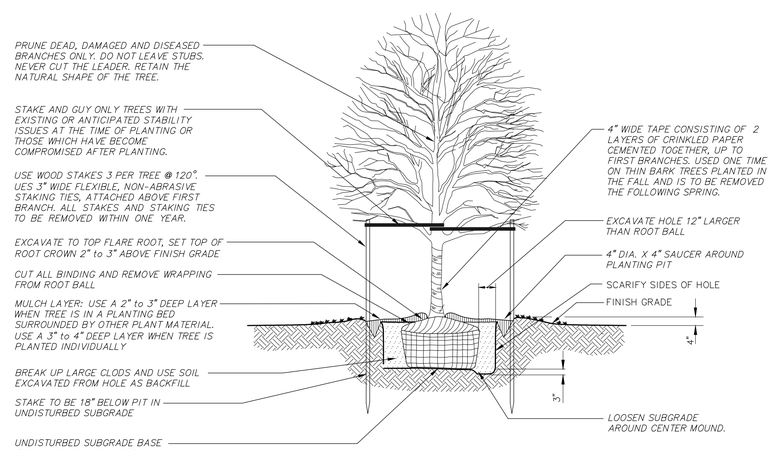

SHADE TREE PLANTING DETAIL
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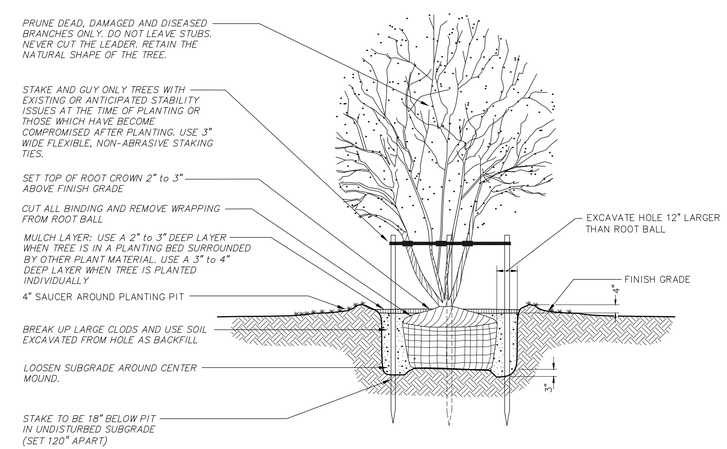

MULTI-STEM TREE PLANTING DETAIL
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########	N/A
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
	89 of 181
CONTRACT	PROJECT NO.

PRINT DATE: 5/8/14
PLOT SCALE: 1:1 EDIT DATE: 12/30/13 - 11:58 AM EDITED BY: JSLATER DRAWING FILE: P:\2013\00985\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2013.00985.CE.157.LP.DWG

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)		PCCP FOR STRUCTURE INSTALLATION	HMA FOR STRUCTURE INSTALLATION	HMA FOR APPROACHES TYPE B	HMA MATERIAL FOR ROADS									ASPHALT FOR			COMPACTED AGGREGATE NO. 53 BASE			SUBGRADE TREATMENT			PCCP	PCCP FOR APPROACHES WITH 4"x4" WIRE MESH OR FIBER MESH REINFORCEMENT		SURFACE BEYOND R/W LINE			REMARKS
											SURFACE	INTERMD.	BASE	INTERMD.	BASE					SEAL COAT	PRIME COAT	TACK COAT									TYPE "O" COMP. AGG.	ASPHALT	CONCRETE	
														OG, 5, 76																			
											TYPE B	TYPE B	TYPE B	25.0 MM	TYPE B																		
		"W"	"L"		"R"	1	2			1460 #/	165#/SYS	275#/SYS	440#/SYS	250#/SYS	330#/SYS								3 in.	6 in.	in.	IA	IIIA		8 in.	6 in.	9 in.				
		ft.	ft.	ft.	ft.	%	%	SYS.	TONS	TONS	TONS	TONS	TONS	TONS	TONS					TONS	TONS	TONS	TONS	TONS	TONS	SYS.	SYS.		SYS.	SYS.	SYS.				
Line "PR-A1"											90	134	214	157	171							1				1,205									
100+87.0 Rt.	Commercial Drive	23.6	20.3		22 22																						77.0				76.4				
100+99.8 Lt.	Street Approach	26.0	24.2		40 10					75.7																103.7									
Line "PR-A"											1,245	2,075	3,320	2,498	2,684							16	894	200	4142	20,329			600.0						Cumberland Ave.
104+13.0 Lt.	Residential Drive	19.6	54.3																								120.0			120.0					
105+55.0 Rt.	Residential Drive	22.0	10.5																								27.4			27.4					
106+35.0 Rt.	Residential Drive	15.9	12.5																								23.9			23.9					
106+90.0 Lt.	Street Approach	29.1	39.2		30 30					123.5																169.2									Covington St.
107+27.0 Rt.	Street Approach	29.6	36.3		30 30					123.4																169.0									Covington St.
108+33.0 Lt.	Residential Drive	15.7	18.1																								33.4			33.4					
109+10.0 Rt.	Residential Drive	15.8	11.3																								21.6			21.6					
109+51.0 Lt.	Residential Drive	15.7	18.4																								33.9			33.9					
110+51.5 Rt.	Street Approach	35.5	31.0		30 25					118.9																162.8									Wilshire Ave.
110+94.0 Lt.	Street Approach	29.2	32.5		30 25					106.7																146.1									Wilshire Ave.
111+86.0 Rt.	Residential Drive	16.5	11.4																								22.7			22.7					
111+95.0 Lt.	Residential Drive	16.1	18.1																								34.2			34.2					
112+78.0 Lt.	Residential Drive	16.3	18.3																								34.9			34.9					
113+14.0 Rt.	Residential Drive	17.5	11.4																								23.9			23.9					
113+51.0 Rt.	Residential Drive	15.9	11.3																								21.7			21.7					
113+52.0 Lt.	Residential Drive	16.0	18.5																								34.7			34.7					
114+05.0 Lt.	Residential Drive	16.0	18.6																								34.8			35.0					
114+74.0 Rt.	Residential Drive	16.5	11.3																								22.5			22.5					
114+98.0 Lt.	Street Approach	29.1	37.1		30 30					123.2																168.8									Sparta St.
115+18.0 Rt.	Residential Drive	15.9	11.3																								21.7			21.7					
115+98.0 Lt.	Residential Drive	16.2	19.1																								36.2			36.2					
116+48.0 Rt.	Residential Drive	16.1	11.3																								22.0			22.0					
116+80.0 Lt.	Residential Drive	23.3	19.1																								51.2			51.2					
117+28.0 Rt.	Residential Drive	17.7	11.4																								24.2			24.2					
117+68.0 Rt.	Residential Drive	17.6	11.4																								24.1			24.1					
118+53.0 Rt.	Residential Drive	18.7	11.5																								25.7			25.7					
	Subtotals =									671.4	1,335.0	2,209.0	3,534.0	2,655.0	2,855.0							17.0	894	200.0	4142	22,453.6	771.7		600.0	694.9	76.4				

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SUMMARY OF QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE N/A

N/A

SHEETS 90 of 181

PROJECT NO.

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)		PCCP FOR STRUCTURE INSTALLATION	HMA FOR STRUCTURE INSTALLATION	HMA FOR APPROACHES TYPE B	HMA MATERIAL FOR ROADS									ASPHALT FOR			COMPACTED AGGREGATE NO. 53 BASE			SUBGRADE TREATMENT			PCCP	PCCP FOR APPROACHES WITH 4"x4" WIRE MESH OR FIBER MESH REINFORCEMENT		SURFACE BEYOND R/W LINE			REMARKS
											SURFACE	INTERMD.	BASE	INTERMD.	BASE				SEAL COAT	PRIME COAT	TACK COAT									TYPE "O" COMP. AGG.	ASPHALT	CONCRETE	
														OG, 5, 76																			
											TYPE B	TYPE B	TYPE B	25.0 MM	TYPE B																		
		"W"	"L"		"R"	1	2			1460 #/	165#/SYS	275#/SYS	440#/SYS	250#/SYS	330#/SYS							3 in.	6 in.	in.	IA	IIIA		8 in.	6 in.	9 in.				
		ft.	ft.	ft.	ft.	%	%	SYS.	TONS	TONS	TONS	TONS	TONS	TONS	TONS				TONS	TONS	TONS	TONS	TONS	TONS	SYS.	SYS.		SYS.	SYS.	SYS.				
Line "PR-A"																																	
Continued																																	
118+84.0 Lt.	Commercial Drive	22.2	18.4																							47.2				47.2			
120+80.5 Rt.	Street Approach	29.0	31.0		30 25					102.5															140.4								Barlow St.
122+68.0 Rt.	Residential Drive	16.3	11.7																							23			23				
122+87.0 Lt.	Commercial Drive	19.6	47.8		40 40					138.6															189.8								
123+56.0 Rt.	Residential Drive	20.7	11.7																							28.7			28.7				
124+88.0 Rt.	Residential Drive	18.3	11.8																							25.8			25.8				
125+35.0 Rt.	Residential Drive	16.3	11.8																							23.1			23.1				
127+71.0 Rt.	Street Approach	35.3	31.9		30 25					119.5															163.7								Henderson Ave.
129+06.8 Lt.	Commercial Drive	26.0	42.2		30 15					112.6															154.2								
129+70.0 Rt.	Residential Drive	18.3	10.1																							22.3			22.3				
129+83.0 Lt.	Mod. Street App.	29.6	58.6		45 45					159															217.8								Benton St.
130+57.0 Rt.	Residential Drive	26.5	12.3																							38			38				
131+36.0 Rt.	Residential Drive	17.7	12.3																							26			26				
132+98.0 Rt.	Street Approach	29.9	31.1		30 25					105.6															144.7								Linda Lane West
133+97.0 Lt.	Residential Drive	17.4	16.3																							33.3			33.3				
134+21.0 Rt.	Residential Drive	16.4	12.3																							24.2			24.2				
134+68.0 Lt.	Residential Drive	17.0	16.3																							32.6			32.6				
135+35.0 Rt.	Residential Drive	15.9	12.3																							23.5			23.5				
135+51.0 Lt.	Residential Drive	16.8	16.3																							32.2			32.2				
135+90.0 Lt.	Residential Drive	16.5	16.3																							31.7			31.7				
136+58.0 Rt.	Street Approach	29.8	34.2		30 30					110.3															151.1								Bristol Ct.
136+98.0 Lt.	Residential Drive	16.7	16.3																							32			32				
137+78.0 Lt.	Residential Drive	17.0	16.3																							32.6			32.6				
137+79.0 Rt.	Residential Drive	17.3	12.3																							25.4			25.4				
138+29.0 Lt.	Residential Drive	16.9	19.3																							38			38				
139+00.0 Lt.	Street Approach	29.5	37.9		30 30					126.3															173								Crimson Ct.
139+43.0 Rt.	Street Approach	29.6	35.3		30 30					120.1															164.5								Arbour Ct.
140+19.0 Rt.	Residential Drive	17.3	12.3																							25.4			25.4				
140+49.0 Lt.	Residential Drive	19.0	16.3																							36.2			36.2				
	Subtotals =									1,094.5															1,499	601.2			554.0	47.2			

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SUMMARY OF QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE N/A

N/A

SHEETS 91 of 181

PROJECT NO.

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)		PCCP FOR STRUCTURE INSTALLATION	HMA FOR STRUCTURE INSTALLATION	HMA FOR APPROACHES TYPE B	HMA MATERIAL FOR ROADS								ASPHALT FOR			COMPACTED AGGREGATE NO. 53 BASE			SUBGRADE TREATMENT			PCCP	PCCP FOR APPROACHES WITH 4"x4" WIRE MESH OR FIBER MESH REINFORCEMENT		SURFACE BEYOND R/W LINE			REMARKS
											SURFACE	INTERMD.	BASE	INTERMD.	BASE				SEAL COAT	PRIME COAT	TACK COAT									TYPE "O" COMP. AGG.	ASPHALT	CONCRETE	
														OG, 5, 76																			
											TYPE B	TYPE B	TYPE B	25.0 MM	TYPE B																		
		"W"	"L"		"R"	1	2			1460 #/	165#/SYS	275#/SYS	440#/SYS	250#/SYS	330#/SYS							3 in.	6 in.	in.	IA	IIIA		8 in.	6 in.	9 in.				
		ft.	ft.	ft.	ft.	%	%	SYS.	TONS	TONS	TONS	TONS	TONS	TONS	TONS				TONS	TONS	TONS	TONS	TONS	TONS	SYS.	SYS.		SYS.	SYS.	SYS.				
Line "PR-A"																																	
Continued																																	
141+63.0 Lt.	*Residential Drive*	*17.1*	*16.3*																							*32.7*			*32.7*				
142+09.0 Rt.	*Residential Drive*	*16.9*	*12.3*																							*24.9*			*24.9*				
Multi-Use											*71.0*	*123.0*									*1*		*321*										
Path																																	
Soldiers Home								*51*	*20*														*32*										
Home Road																																	
Parking Lot											*337.0*	*473.0*									*2*		*532*		*2,746*								
Line "S-1-A"										*591*											*1*				*914*								*Salisbury St.*
	Subtotals =							*51*	*20*	*591.0*	*408.0*	*596.0*									*4.0*		*885*		*3,660*	*57.6*			*57.6*				
	Totals =							*51*	*20*	*2,357*	*1,743*	*2,805*	*3,534*	*2,655*	*2,855*						*21*	*894*	*1,085*	*4,142*	*27,613*	*1,431*		*600*	*1,307*	*124*				

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

SUMMARY OF QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE N/A

N/A

SHEETS 92 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. _____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "PR-A1"																											
LEFT-SIDE																											
100+49.0							700.93																				
100+58.0		9.0	9.6	0.8			700.85	N	300A	696.77																	
100+58.0							700.85	N	300A	696.77																	
101+40.0		82.0	87.7	7.4			701.60																				
LINE "PR-A1"																											
RIGHT-SIDE																											
100+49.0							700.93																				
101+40.0		91.0	97.4	8.2			701.73	N	101	701.28																	
101+40.0							701.73	N	101	701.28																	
102+55.0		115.0	123.1	10.4			701.83																				
																										End At Str. No. 103A	
Subtotals =		297.0	317.8	26.8																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 93 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "PR-A"																											
LEFT-SIDE																											
103+60.0		70.0	74.9	6.3			700.91																				
104+30.0							700.62	N	108	699.75																	
105+85.0		115.0	123.1	10.4			701.98	N	111	701.49																	
106+76.0							702.83																				End At Str. No. 113
107+05.0		170.0	124.1	7.7			703.73																				Modified Depth, See Miscellaneous Details, Begin At Str. No. 114
108+60.0							702.97	N	117	701.52																	Modified Depth, See Miscellaneous Details
110+47.0		42.0	30.7	1.9			701.48																				Modified Depth, See Miscellaneous Details
110+80.0							700.58	N	128	699.33																	Modified Depth, See Miscellaneous Details, End At Str. No. 128
111+08.0		82.0	87.7	7.4		0.30%	699.80																				Begin At Str. No. 129
111+75.0							699.56	N	132	698.55																	
114+20.0		85.0	62.1	3.8			701.29	N	141	700.17																	Modified Depth, See Miscellaneous Details
114+84.0							701.81																				Modified Depth, See Miscellaneous Details, End At Str. No. 143
115+13.0		81.0	59.1	3.6			702.01	N	144	700.90																	Modified Depth, See Miscellaneous Details, Begin At Str. No. 144
115+78.0							702.24																				Modified Depth, See Miscellaneous Details
115+78.0		149.0	159.4	13.4			701.24	N	147	700.87																	
117+27.0							701.90																				High Point
117+27.0		203.0	217.2	18.3			701.90																				High Point
119+30.0							700.56	N	148	700.10																	
120+70.0		80.0	85.6	7.2			699.66	N	155	698.80																	
121+50.0							700.01																				
121+50.0		85.0	91.0	7.7			700.01	N	160	699.59																	
122+35.0							701.08																				
123+55.0		185.0	135.1	8.3			702.49																				High Point, Modified Depth, See Miscellaneous Details
125+40.0							701.62	N	164	701.44																	Modified Depth, See Miscellaneous Details
130+20.0		180.0	192.6	16.2			702.19	N	176	701.85																	
132+00.0							704.27																				
Subtotals =		1,527.0	1,442.6	112.2																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 94 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "PR-A"																											
LEFT-SIDE CONT.																											
134+90.0							707.00	N	186	706.58																	
137+10.0		220.0	235.4	19.8			708.43																				High Point
137+10.0							709.43																				High Point, Modified Depth, See Miscellaneous Details
138+60.0		150.0	109.5	6.8			709.00	N	189	708.75																	Modified Depth, See Miscellaneous Details
138+60.0							709.03																				Modified Depth, See Miscellaneous Details
138+86.0		47.0	34.3	2.1		0.30%	708.89	N	190	708.71																	Modified Depth, See Miscellaneous Details, End At Str. No. 190
139+15.0		45.0	32.9	2.0			708.81	N	192	708.63																	Modified Depth, See Miscellaneous Details, Begin At Str. No. 192
139+45.0							709.00																				Modified Depth, See Miscellaneous Details
140+10.0		185.0	135.1	8.3			709.24	N	195	708.73																	Modified Depth, See Miscellaneous Details
141+95.0							711.03																				Modified Depth, See Miscellaneous Details
141+95.0		68.0	72.8	6.1			710.03	N	198	707.98																	
142+51.0							710.66																				End at Curb & Gutter High Point, Sta. 142+51, 53.7' Lt. "PR-A"
Subtotals =		715.0	620.0	45.1																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 95 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "PR-A"																											
RIGHT-SIDE																											
103+60.0		70.0	74.9	6.3			700.78																				
104+30.0							700.62	N	107	700.22																	
104+30.0		55.0	40.2	2.5			701.62	N	107	700.22																	Modified Depth, See Miscellaneous Details
104+85.0							701.94																				Modified Depth, See Miscellaneous Details
104+85.0		115.0	84.0	5.2			701.94	N	110	700.55																	Modified Depth, See Miscellaneous Details
106+00.0							703.74																				Modified Depth, See Miscellaneous Details
106+00.0		80.0	85.6	7.2			702.74	N	112	702.32																	
106+80.0							703.42																				
107+74.0		96.0	102.7	8.6			703.23																				
108+70.0							702.35	N	119	701.93																	
108+70.0		100.0	73.0	4.5			703.35																				Modified Depth, See Miscellaneous Details
109+70.0							702.57	N	121	701.18																	Modified Depth, See Miscellaneous Details
109+70.0		82.0	87.7	7.4			701.57																				
110+34.0							700.82	N	122	700.24																	End At Str. No. 122
110+70.0		85.0	91.0	7.7			700.82																				Begin At Str. No. 126
111+40.0							700.34	N	131	699.92																	
111+40.0		70.0	51.1	3.2			701.34																				Modified Depth, See Miscellaneous Details
112+10.0							701.20	N	134	699.59																	Modified Depth, See Miscellaneous Details
112+10.0		60.0	43.8	2.7			701.20	N	134	699.59																	Modified Depth, See Miscellaneous Details
112+70.0							701.32																				Modified Depth, See Miscellaneous Details
112+70.0		145.0	155.2	13.1			700.32	N	137	699.90																	
114+15.0							700.97																				
114+15.0		130.0	139.1	11.7			700.97	N	140	Exist.																	
115+45.0							701.56																				
115+45.0		172.0	184.0	15.5			701.56	N	146	701.14																	
117+17.0							702.18																				High Point
117+17.0		213.0	227.9	19.2			702.18																				High Point
119+30.0							700.86	N	150	700.04																	
120+00.0		80.0	85.6	7.2			700.25																				
120+66.0							699.96	N	154	699.48																	End At Str. No. 154
120+95.0		72.0	77.0	6.5			699.95	N	159	699.39																	Begin At Str. No. 159
121+60.0							700.33																				
Subtotals =		1,625.0	1,602.8	128.5																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 96 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. _____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "PR-A"																											
RIGHT-SIDE CONT.																											
122+30.0							701.01	N	162	700.63																	
123+85.0		155.0	165.9	14.0			701.88																				High Point
123+85.0							701.88																				High Point
125+15.0		130.0	139.1	11.7			701.41	N	163	701.46																	
133+14.0							705.43	N	181B	705.30																	
134+60.0		156.0	166.9	14.0			707.16																				
134+60.0							708.16	N	185	703.60																	Modified Depth, See Miscellaneous Details
135+85.0		125.0	91.3	5.6			709.38																				Modified Depth, See Miscellaneous Details
135+85.0							708.38	N	187	707.98																	
136+10.0		25.0	26.8	2.3			708.67																				
137+10.0							710.04																				High Point, Modified Depth, See Miscellaneous Details
138+50.0		140.0	102.2	6.3		0.40%	709.48	N	188	708.95																	Modified Depth, See Miscellaneous Details
139+15.0							709.22	N	191	708.78																	Modified Depth, See Miscellaneous Details
139+28.0		36.0	26.3	1.6			709.43																				Modified Depth, See Miscellaneous Details, End At Arbour Ct. Limits
139+58.0							708.44																				Begin At Arbour Ct. Limits
139+80.0		38.0	40.7	3.4			708.42	N	194	708.02																	
Subtotals =		805.0	759.2	58.9																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 97 of 181

PROJECT NO.

UNDERDRAIN TABLE

UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						
UNDERDRAIN PIPE LIMITS	TYPE 4 PIPE		GEOTEXTILES FOR UNDERDRAINS	AGGREGATE FOR UNDERDRAINS	HMA FOR UNDERDRAINS	SPECIAL GRADE	FLOW LINE ELEVATION @ UNDERDRAIN PIPE LIMIT	OUTLET PIPE REQUIRED	CONNECT UNDERDRAIN PIPE TO STRUCTURE NO. ____	STRUCTURE INVERT ELEVATION	45 DEGREE ELBOWS REQUIRED (1 OR 2)	6 IN OUTLET PIPE	OUTLET STATION	OUTLET ELEVATION	OUTLET AT OUTLET PROTECTOR NO. ___	DITCH FLOW LINE ELEVATION AT OUTLET PROTECTOR	CONNECT OUTLET PIPE TO STRUCTURE NO. ___	STRUCTURE INVERT ELEVATION	STRUCTURE BACKFILL	HMA FOR UNDERDRAINS	OUTLET PROTECTOR NO. ___	OUTLET PROTECTOR TYPE	LOCATION				REMARKS
	4 IN.	6 IN.																					OUTSIDE LEFT	MEDIAN LEFT	MEDIAN RIGHT	OUTSIDE RIGHT	
	FT.	FT.	SYS.	CYS.	TON	(%)		(Y/N)				FT.							CYS.	TON							
LINE "S-1-A"																											
LEFT-SIDE																											
6+12.0		8.0	8.6	0.7		0.50%	700.85																				
6+20.0							700.81	N	104B	700.48																	
6+20.0		66.0	48.2	3.0			701.36	N	104B	700.48																	Modified Depth, See Miscellaneous Details
6+60.0							702.83																				Modified Depth, See Miscellaneous Details, End At Str. No. 103A
6+94.0		85.0	62.1	3.8			702.81																				Modified Depth, See Miscellaneous Details
7+56.0							701.29	N	104A	701.25																	Modified Depth, See Miscellaneous Details
7+56.0		14.0	10.2	0.6			701.29	N	104A	701.25																	Modified Depth, See Miscellaneous Details
7+70.0							701.41																				Modified Depth, See Miscellaneous Details
LINE "S-1-A"																											
RIGHT-SIDE																											
6+12.0		8.0	8.6	0.7			700.44																				
6+20.0							700.40	N	104D	700.18																	
6+20.0		33.0	24.1	1.5			701.40	N	104D	700.18																	Modified Depth, See Miscellaneous Details
6+53.0							701.83																				Modified Depth, See Miscellaneous Details, End At Str. No. 106
7+56.0		14.0	10.2	0.6			701.40	N	104E	700.55																	Modified Depth, See Miscellaneous Details
7+70.0							701.46																				Modified Depth, See Miscellaneous Details
Subtotals =		228.0	172.0	10.9																							

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

UNDERDRAIN TABLE

HORIZONTAL SCALE N/A

VERTICAL SCALE N/A

SHEETS 98 of 181

PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: RIGHT	LOCATION: CROSS	LOCATION: OFFSET	SIZE	PIPE TYPE	DESCRIPTION: MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE: UP STREAM	FLOW LINE: DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
Line "PR-A1"																																					
100	101+40.0	x				18	RCP	Manhole-Inlet Type C	77		3.5	697.25	696.85	75	N/A	7	1	43.6	1							77								300	Connect to existing Manhole
100A	101+40.0		x		3.2			Manhole Type A						75	N/A	7																				Connect to existing 21" pipe (add 1). 16' of pipe to be included)
100B	101+40.0		x		25.0	12	RCP	Manhole Type A	7		2.5	701.35	701.28	75	N/A	7	1	2.4	1							7								101	
101	101+40.0		x			12	RCP	Curb Inlet	7		1.6	701.28	701.21	75	N/A	7	1	1.7	1							7								100A	
101A	101+40.0	x			40.0	18	RCP	Manhole Type A	15		4.0	697.33	697.25	75	N/A	7	1	11.4	1							15								100	
102	102+60.0	x				12	RCP	Curb Inlet	115		0.6	701.51	700.29	75	N/A	7	1	19.9	1							115								100	
102A	102+75.0	x			43.0	18	RCP	Manhole Type A	130		3.8	697.85	697.33	75	N/A	7	1	90.4	1							130								101A	
103	102+55.0		x		25.0	12	RCP	Manhole Type A	111		1.0	701.90	701.35	75	N/A	7	1	18.6	1							111								100B	
103A	102+55.0		x			12	RCP	Curb Inlet	8		1.0	701.95	701.90	75	N/A	7	1	1.3	1							8								103	
104	102+97.6	x			79.5	12	RCP	Manhole Type A	39		1.6	700.23	700.00	75	N/A	7	1	10.1	1							39								102A	Connect existing 8" pipe
104A	103+01.8	x				12	RCP	Curb Inlet	2		1.0	701.25	701.23	75	N/A	7	1	0.3	1							2								104	
104B	103+02.3		x			12	RCP	Curb Inlet	40		2.0	700.48	700.18	75	N/A	7	1	12.0	1							40								104D	
Line "PR-A"																																					
104C	103+42.0	x			5.5	15	RCP	Manhole Type A	64		3.9	698.17	697.85	75	N/A	7	1	36.4	1							64								102A	
104D	103+42.7		x			12	RCP	Curb Inlet	30		2.3	700.18	700.03	75	N/A	7	1	10.0	1							30								106	
104E	103+43.1	x				12	RCP	Curb Inlet	40		1.0	700.55	700.25	75	N/A	7	1	6.7	1							40								104A	
105	103+60.0	x				15	RCP	Manhole-Inlet Type A	15		2.1	699.50	699.44	75	N/A	7	1	5.4	1							15								104C	
106	103+60.0		x			12	RCP	Manhole-Inlet Type A	49		1.6	700.23	700.00	75	N/A	7	1	12.0	1							49								105	
107	104+30.0		x			12	RCP	Manhole-Inlet Type A	19		1.6	700.22	700.17	75	N/A	7	1	5.8	1							19								108A	Connect to existing Manhole
108	104+30.0		x			15	RCP	Manhole-Inlet Type A	66		1.8	699.75	699.50	75	N/A	7	1	20.4	1							66								105	
108A	104+35.8		x		17.3			Existing Manhole																												Adjust Casting to Grade & connect new pipe
109	105+00.0		x			12	RCP	Curb Inlet	66		1.6	700.40	700.15	75	N/A	7	1	16.1	1							66								108	
110	104+85.0		x			12	RCP	Curb Inlet	51		1.6	700.55	700.22	75	N/A	7	1	11.8	1							51								107	
111	105+85.0	x				12	RCP	Curb Inlet	81		1.6	701.49	700.55	75	N/A	7	1	19.2	1							81								109	
112	106+00.0		x			12	RCP	Curb Inlet	111		1.6	702.32	700.55	75	N/A	7	1	25.6	1							111								110	
113	106+75.8	x				12	RCP	Curb Inlet	29		1.6	702.45	702.31	75	N/A	7	1	6.8	1							29								114	
114	107+05.0	x				12	RCP	Curb Inlet	18		1.6	702.31	702.10	75	N/A	7	1	4.8	1							18								115	
115	107+06.0	x			36.0	12	RCP	Manhole Type A	150		1.6	702.10	701.56	75	N/A	7	1	40.2	1							150								117	
116	107+22.0		x		17.0			Existing Manhole																												Adjust Casting to Grade
117	108+60.0	x				12	RCP	Curb Inlet	182		0.9	701.52	700.79	75	N/A	7	1	36.1	1							182								123	
118								Intentionally Omitted																													

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

STRUCTURE DATA TABLE

HORIZONTAL SCALE	
N/A	
VERTICAL SCALE	
N/A	

SHEETS		
99	of	181
PROJECT NO.		

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: RIGHT	LOCATION: CROSS	LOCATION: OFFSET	SIZE	PIPE TYPE	DESCRIPTION: MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE: UP STREAM	FLOW LINE: DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
Line "PR-A"																																				
119	108+70.0		x			12	RCP	Curb Inlet	96		1.6	701.93	701.18	75	N/A	7	1	22.1	1							96								121	
120	109+70.0		x		16.0			Manhole Type J						75	N/A	7																				Connect to existing 36" pipe (add'l. 16' of pipe to be included)
121	109+70.0		x			12	RCP	Curb Inlet	14		1.6	701.18	701.05	75	N/A	7	1	3.3	1							14								120	
122	110+33.7		x			12	RCP	Curb Inlet	11		1.5	700.24	700.16	75	N/A	7	1	2.4	1							11								125	
123	110+47.0	x				15	RCP	Manhole-Inlet Type C	46		3.4	698.04	697.92	75	N/A	7	1	28.2	1							46								124	Dual 15" Pipes Req'd., Connect to existing Manhole
124	110+47.0		x		16.0			Existing Manhole																												Adjust Casting to Grade and connect new pipe
125	110+47.0		x		55.0			Manhole Type A						75	N/A	7																				Connect to existing 21" pipe (add'l. 16' of pipe to be included)
126	110+69.5		x			12	RCP	Curb Inlet	20		1.6	700.24	700.13	75	N/A	7	1	4.6	1							20								125	
127	110+78.0	x			37.0	15	RCP	Manhole Type A	26		4.3	698.19	698.04	75	N/A	7	1	16.0	1							26								123	
128	110+79.5	x				15	RCP	Curb Inlet	20		1.2	699.33	699.19	75	N/A	7	1	5.7	1							20								127	
129	111+08.7	x				15	RCP	Curb Inlet	29		0.9	699.53	699.33	75	N/A	7	1	6.0	1							29								128	
130								Intentionally Omitted																												
131	111+40.0		x			12	RCP	Curb Inlet	66		1.6	699.92	699.59	75	N/A	7	1	16.1	1							66								134	
132	111+75.0	x				15	RCP	Curb Inlet	93		2.0	698.55	698.19	75	N/A	7	1	36.8	1							93								127	
133	112+10.0		x		16.0			Manhole Type J						75	N/A	7																				Connect to existing 42" pipe (add'l. 16' of pipe to be included)
134	112+10.0		x			12	RCP	Manhole-Inlet Type A	13		1.8	699.59	699.47	75	N/A	7	1	3.6	1							13								133	
135	112+35.0	x				15	RCP	Curb Inlet	56		1.6	698.82	698.55	75	N/A	7	1	16.2	1							56								132	
136								Intentionally Omitted																												
137	112+70.0		x			12	RCP	Curb Inlet	56		1.6	699.90	699.62	75	N/A	7	1	13.5	1							56								134	
138	113+05.0	x				15	RCP	Curb Inlet	66		1.2	699.33	699.00	75	N/A	7	1	15.5	1							66								135	
139	114+15.0		x		16.5			Existing Manhole																												Adjust Casting to Grade
140	114+15.0		x					Curb Inlet						75	N/A	7																				Connect to existing 12" pipe (add'l. 8' of pipe to be included)
																																				Contractor to field verify existing invert elevations
141	114+20.0	x				12	RCP	Curb Inlet	111		1.2	700.17	699.58	75	N/A	7	1	22.1	1							111								138	
142	114+83.0	x			37.0	12	RCP	Manhole Type A	59		1.2	700.58	700.17	75	N/A	7	1	11.7	1							59								141	
143	114+84.0	x				12	RCP	Curb Inlet	20		1.2	700.77	700.58	75	N/A	7	1	3.7	1							20								142	
144	115+13.0	x				12	RCP	Curb Inlet	28		1.2	700.90	700.77	75	N/A	7	1	5.5	1							28								143	
145	115+45.0		x		16.0			Manhole Type J						75	N/A	7																				Connect to existing 42" pipe (add'l. 16' of pipe to be included)
146	115+45.0		x			12	RCP	Curb Inlet	14		1.6	701.14	700.98	75	N/A	7	1	3.4	1							14								145	
147	115+78.0	x				12	RCP	Curb Inlet	91		1.2	700.87	700.58	75	N/A	7	1	19.4	1							91								142	
148	119+30.0	x				12	RCP	Curb Inlet	86		1.3	700.10	699.65	75	N/A	7	1	18.7	1							86								153	
149	119+30.0		x		17.0			Manhole Type J						75	N/A	7																				Connect to existing 42" pipe (add'l. 16' of pipe to be included)

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

STRUCTURE DATA TABLE

HORIZONTAL SCALE: N/A

VERTICAL SCALE: N/A

SHEETS: 100 of 181

PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION STATION	LOCATION LEFT	LOCATION RIGHT	LOCATION CROSS	LOCATION OFFSET	SIZE	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
Line "PR-A"																																					
150	119+30.0		x			12	RCP	Curb Inlet	13		2.0	700.04	699.92	75	N/A	7	1	3.6	1							13								149	
151								Intentionally Omitted																												
152	120+00.0		x			12	RCP	Curb Inlet	66		2.0	700.37	700.04	75	N/A	7	1	21.6	1							66								150	
153	120+20.0	x				12	RCP	Curb Inlet	46		2.6	699.25	699.00	75	N/A	7	1	17.4	1							46								155	
154	120+65.6		x			12	RCP	Catch Basin	15		1.6	699.48	699.40	75	N/A	7	1	3.5	1							15								157	
155	120+70.0	x				12	RCP	Manhole-Inlet Type A	15		2.3	698.80	698.70	75	N/A	7	1	5.2	1							15								158	
156	120+83.8		x		18.0			Existing Manhole																												Adjust Casting to Grade and connect new pipe
157	120+83.8		x		54.3			Manhole Type J						75	N/A	7																				Connect to existing 42" pipe (add'l. 16' of pipe to be included)
158	120+85.0	x			52.0			Manhole Type G						75	N/A	7																				Connect to Existing 48"x78" pipe (add'l. 16' of pipe to be included)
159	120+95.3		x			12	RCP	Catch Basin	8		1.6	699.39	699.35	75	N/A	7	1	1.9	1							8								157	
160	121+50.0	x				12	RCP	Catch Basin	61		1.6	699.59	699.30	75	N/A	7	1	16.0	1							61								158	
161	121+60.0		x			12	RCP	Catch Basin	72		1.2	700.30	699.90	75	N/A	7	1	14.9	1							72								156	Connect to existing manhole
162	122+30.0		x			12	RCP	Curb Inlet	66		1.2	700.63	700.30	75	N/A	7	1	13.9	1							66								161	
163	125+15.0		x			12	RCP	Curb Inlet	81		1.1	701.46	701.06	75	N/A	7	1	14.8	1							81								165	
164	125+40.0	x				12	RCP	Curb Inlet	136		0.0	701.44	701.22	75	N/A	7	1	12.6	1							136								166	
165	126+00.0		x			12	RCP	Curb Inlet	86		1.1	701.06	700.64	75	N/A	7	1	15.6	1							86								167	
166	126+80.0	x				12	RCP	Curb Inlet	46		0.0	701.22	701.08	75	N/A	7	1	3.9	1							46								168	
167	126+90.0		x			12	RCP	Catch Basin	68		1.1	700.64	700.30	75	N/A	7	1	13.1	1							68								170	
168	127+30.0	x				15	RCP	Curb Inlet	27		0.0	701.08	701.02	75	N/A	7	1	22.3	1							27								171	
169	127+52.5		x			12	RCP	Catch Basin	8		0.9	700.28	700.25	75	N/A	7	1	1.3	1							8								170A	
170	127+63.0		x		33.0	30	RCP	Manhole Type C	15		0.0	700.30	700.25	75	N/A	7	1	4.8	1							15								170A	
170A	127+63.0		x		53.0			Manhole Type C						75	N/A	7																				Connect to existing 30" pipe (add'l. 8' of pipe to be included)
171	127+62.0	x				12	RCP	Manhole-Inlet Type C	30		0.2	701.02	700.74	75	N/A	7	1	8.8	1							30								171A	Dual 12" Pipes Req'd.
																																				Connect New Pipe to Existing Pipe Under 10" Gas Line
171A	127+62.0	x			5.0	12	RCP	Manhole Type C	66		1.4	700.74	700.40	75	N/A	7	1	7.0	1							66								170	Dual 12" Pipes Req'd.
172	127+88.9		x			12	RCP	Catch Basin	24		1.0	700.36	700.25	75	N/A	7	1	4.1	1							24								170A	
173	128+55.0		x			24	RCP	Manhole-Inlet Type C	87		0.3	700.45	700.30	75	N/A	7	1	16.1	1							87								170	
174	128+45.0	x				12	RCP	Curb Inlet	78		0.2	701.27	701.02	75	N/A	7	1	6.1	1							78								171	
174A	129+20.0	x				12	RCP	Curb Inlet (Depressed)	71		1.4	701.42	701.27	75	N/A	7	1	17.5	1							71								174	
175	129+35.0		x			24	RCP	Manhole-Inlet Type C	74		0.3	700.77	700.45	75	N/A	7	1	16.4	1							74								173	
176	130+20.0	x				12	RCP	Curb Inlet	106		1.1	701.85	701.42	75	N/A	7	1	21.8	1							106								174A	
177	130+25.0		x			24	RCP	Manhole-Inlet Type C	75		0.8	701.32	700.77	75	N/A	7	1	23.0	1							75								175	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

STRUCTURE DATA TABLE

HORIZONTAL SCALE: N/A

VERTICAL SCALE: N/A

SHEETS: 101 of 181

PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION STATION	LEFT	RIGHT	CROSS	OFFSET	SIZE	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	COVER	FLOW LINE UP STREAM	FLOW LINE DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
Line "PR-A"																																					
178	132+00.0	x				12	RCP	Curb Inlet	76		2.0	704.35	703.88	75	N/A	7	1	27.0	1							76								180	
179	132+00.0		x			24	RCP	Manhole-Inlet Type C	167		1.5	702.22	701.32	75	N/A	7	1	74.4	1							167								177	
180	132+80.0	x				12	RCP	Manhole-Inlet Type A	47		4.0	703.20	703.00	75	N/A	7	1	27.1	1							47								180A	
180A	132+80.0		x		16.5	15	RCP	Manhole Type A	12		4.4	703.00	702.94	75	N/A	7	1	7.8	1							12								181	Connect to existing 18" during MOT phase I
181	132+80.0		x		33.1	18	RCP	Manhole Type A	75		3.1	702.70	702.22	75	N/A	7	1	39.7	1							75								179	
181A	132+83.2		x			12	RCP	Curb Inlet	21		1.3	705.30	705.20	75	N/A	7	1	4.1	1							21								181	
181B	133+13.4		x			12	RCP	Curb Inlet	30		2.0	705.45	705.30	75	N/A	7	1	8.5	1							30								181A	
182	133+60.0	x				12	RCP	Curb Inlet	76		1.5	705.89	705.38	75	N/A	7	1	17.6	1							76								180	
183	133+70.0		x			18	RCP	Manhole-Inlet Type C	86		3.9	703.17	702.84	75	N/A	7	1	57.2	1							86								181	
184	134+60.0		x		16.5	18	RCP	Existing Manhole	13		4.5	703.68	703.60	75	N/A	7	1	9.5	1							13								185	Adjust Casting to Grade and connect new pipe
185	134+60.0		x			18	RCP	Manhole-Inlet Type A	85		3.8	703.60	703.17	75	N/A	7	1	56.7	1							85								183	
186	134+90.0	x				12	RCP	Curb Inlet	126		1.7	706.58	705.89	75	N/A	7	1	33.8	1							126								182	
187	135+85.0		x			12	RCP	Curb Inlet	123		1.8	707.98	707.35	75	N/A	7	1	34.4	1							123								185	
188	138+50.0		x			12	RCP	Curb Inlet	59		1.6	708.95	708.78	75	N/A	7	1	13.8	1							59								191	
189	138+60.0	x				12	RCP	Curb Inlet	80		1.0	708.75	708.53	75	N/A	7	1	14.3	1							80								193	
190	138+85.6	x				12	RCP	Curb Inlet	29		1.3	708.71	708.63	75	N/A	7	1	6.0	1							29								192	
191	139+15.0		x			12	RCP	Manhole-Inlet Type C	60		0.7	708.78	708.52	75	N/A	7	1	8.9	1							60								194	
192	139+15.1	x				12	RCP	Manhole-Inlet Type A	38		0.4	708.63	708.53	75	N/A	7	1	4.4	1							38								193	
193	139+45.0	x				18	RCP	Manhole-Inlet Type C	68		0.1	708.53	708.27	75	N/A	7	1	10.2	1							68								194	
194	139+80.0		x			21	RCP	Manhole-Inlet Type C	65		0.7	708.02	707.85	75	N/A	7	1	16.5	1							65								196	
195	140+10.0	x				12	RCP	Curb Inlet	60		0.6	708.73	708.53	75	N/A	7	1	8.1	1							60								193	
196	140+50.0		x			24	RCP	Manhole-Inlet Type C	132		1.0	707.85	707.45	75	N/A	7	1	58.4	1							132								197	
197	141+88.0		x			24	RCP	Manhole-Inlet Type C	68		3.0	707.45	707.25	75	N/A	7	1	42.6	1							68								199	
198	141+95.0	x				12	RCP	Curb Inlet	65		3.2	707.98	707.75	75	N/A	7	1	24.3	1							65								197	
199	142+58.0		x		53.0	24	RCP	Manhole Type A Modified	242		4.5	707.25	706.11	75	N/A	7	1	230.3	1							242								200	
199A	142+51.5		x		57.3	8	RCP	BMP Structure	12		2.0	707.25	707.25	75	N/A	7																		199	
200	142+86.0		x		298.5	30	RCP	Manhole Type C	1		5.2	706.11	706.10	75	N/A	7	1	1.0	1															201	Connect existing 15" Pipes to new manhole
201	142+94.0		x			30	RCP	Manhole-Inlet Type C	28		5.2	706.10	705.97	75	N/A	7	1	32.1	1							28								202	
202	143+25.7		x		295.2			Existing Manhole																											Reconstruct Manhole for new upstream pipe
Line "PR-A1"																																					
300A	100+57.8	x						Existing Inlet																											To remain in place

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

STRUCTURE DATA TABLE

HORIZONTAL SCALE: N/A

VERTICAL SCALE: N/A

SHEETS: 102 of 181

PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	PIPE TYPE	DESCRIPTION	LENGTH	SKEW	COVER	FLOW LINE		SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET			MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE				UP STREAM	DOWN STREAM																							
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
Line "PR-A1"																																				
300	100+58.9	x			7.2			Existing Manhole																												Adjust Casting to Grade & connect new pipe
301	102+75.9		x		4.0			Existing Manhole																												Adjust Casting to Grade
302	102+81.0		x		35.1			Existing Manhole																												Adjust Casting to Grade
303	134+60.7		x		1.7			Existing Manhole																												Adjust Casting to Grade
304	134+89.8	x			45.6			Existing Manhole																												Adjust Casting to Grade
400	102+91.3	x			57.4			Existing Sanitary Manhole																												Adjust Casting to Grade
401	102+94.4		x		39.5			Existing Sanitary Manhole																												Adjust Casting to Grade
Line "PR-A"																																				
402	105+33.5	x			31.4			Existing Sanitary Manhole																												Adjust Casting to Grade
403	107+32.9		x		31.6			Existing Sanitary Manhole																												Adjust Casting to Grade
404	107+33.4	x			31.4			Existing Sanitary Manhole																												Reconstruct 2' of manhole
405	107+48.9		x		42.3			Existing Sanitary Manhole																												Adjust Casting to Grade
406	110+56.2		x		30.7			Existing Sanitary Manhole																												Adjust Casting to Grade
407	110+99.3	x			32.6			Existing Sanitary Manhole																												Adjust Casting to Grade
408	113+96.1		x		25.5			Existing Sanitary Manhole																												Adjust Casting to Grade
409	115+03.9	x			32.0			Existing Sanitary Manhole																												Adjust Casting to Grade
410	117+39.2		x		24.9			Existing Sanitary Manhole																												Adjust Casting to Grade
411	120+72.5		x		28.1			Existing Sanitary Manhole																												Adjust Casting to Grade
412	124+21.0		x		29.9			Existing Sanitary Manhole																												Adjust Casting to Grade
413	127+81.8		x		29.4			Existing Sanitary Manhole																												Adjust Casting to Grade
414	130+11.2		x		24.0			Existing Sanitary Manhole																												Adjust Casting to Grade
415	132+99.6		x		27.2			Existing Sanitary Manhole																												Adjust Casting to Grade
416	136+60.1		x		29.6			Existing Sanitary Manhole																												Adjust Casting to Grade
417	138+94.4	x			1.8			Existing Sanitary Manhole																												Adjust Casting to Grade
418	139+51.0		x		31.6			Existing Sanitary Manhole																												Adjust Casting to Grade
419	142+57.6		x		33.1			Existing Sanitary Manhole																												Adjust Casting to Grade
MOT																																				
TEMP. STR. 1	112+35.0	X			30.9	12	PVC	INDOT Type R-13	48		2.0	698.50	698.25																							Temporary Pipe for MOT Phase 1 with Flat Casting

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM

CHECKED: MJM CHECKED: MJM

CITY OF WEST LAFAYETTE

STRUCTURE DATA TABLE

HORIZONTAL SCALE: N/A

VERTICAL SCALE: N/A

SHEETS: 103 of 181

PROJECT NO.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE	PIPE TYPE	DESCRIPTION	LENGTH	SKEW	COVER	FLOW LINE		SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	TYPE	FLOWABLE BACKFILL	TYPE	GEOTEXTILES	RIPRAP	TYPE	CONCRETE, CLASS A, FOR STRUCTURES	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS
	STATION	LEFT	RIGHT	CROSS	OFFSET			MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE				UP STREAM	DOWN STREAM																							
					FT	in.			ft.		ft.	ELEV.	ELEV.	YR.				CYS.		CYS.		SYS.	TON		CYS.	LFT.	EACH	TYPE	SLOPE	EACH	TYPE	SLOPE	EACH		
AQS-1								AQUASWIRL AS-3																												
STR-01						12	2	Ditch Inlet	88		2.5	700.35	700.21	75	N/A	7	1	44.3	1							88								STR-03	
STR-02						18	2	Ditch Inlet	190		1.6	700.52	700.13	75	N/A	7	1	95.6	1							190								STR-03	
STR-03						18	2	Ditch Inlet	6		2.0	700.13	700.12	75	N/A	7	1	2.9	1							6								STR-05	
STR-04						18	2	Ditch Inlet	190		1.6	700.87	700.52	75	N/A	7	1	95.6	1							190								STR-02	
STR-05						18	2	Catch Basin	9		2.0	700.11	700.09	75	N/A	7	1	4.4	1							9								STR-11	
STR-06								Manhole Type B			2.2	-	699.99	75	N/A	7																				
STR-07						18	2	Catch Basin	95		1.8	700.31	700.12	75	N/A	7	1	47.7	1							95								STR-05	
STR-08						18	2	Catch Basin	126		1.8	700.50	700.31	75	N/A	7	1	63.3	1							126								STR-07	
STR-09						18	2	Catch Basin	126		1.8	700.69	700.50	75	N/A	7	1	63.3	1							126								STR-08	
STR-11						18	2	Specialty Structure	12		2.0	700.04	699.99	75	N/A	7	1	5.9	1							12								STR-06	

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLW DRAWN: JLW

CHECKED: JDS CHECKED: JDS

CITY OF WEST LAFAYETTE

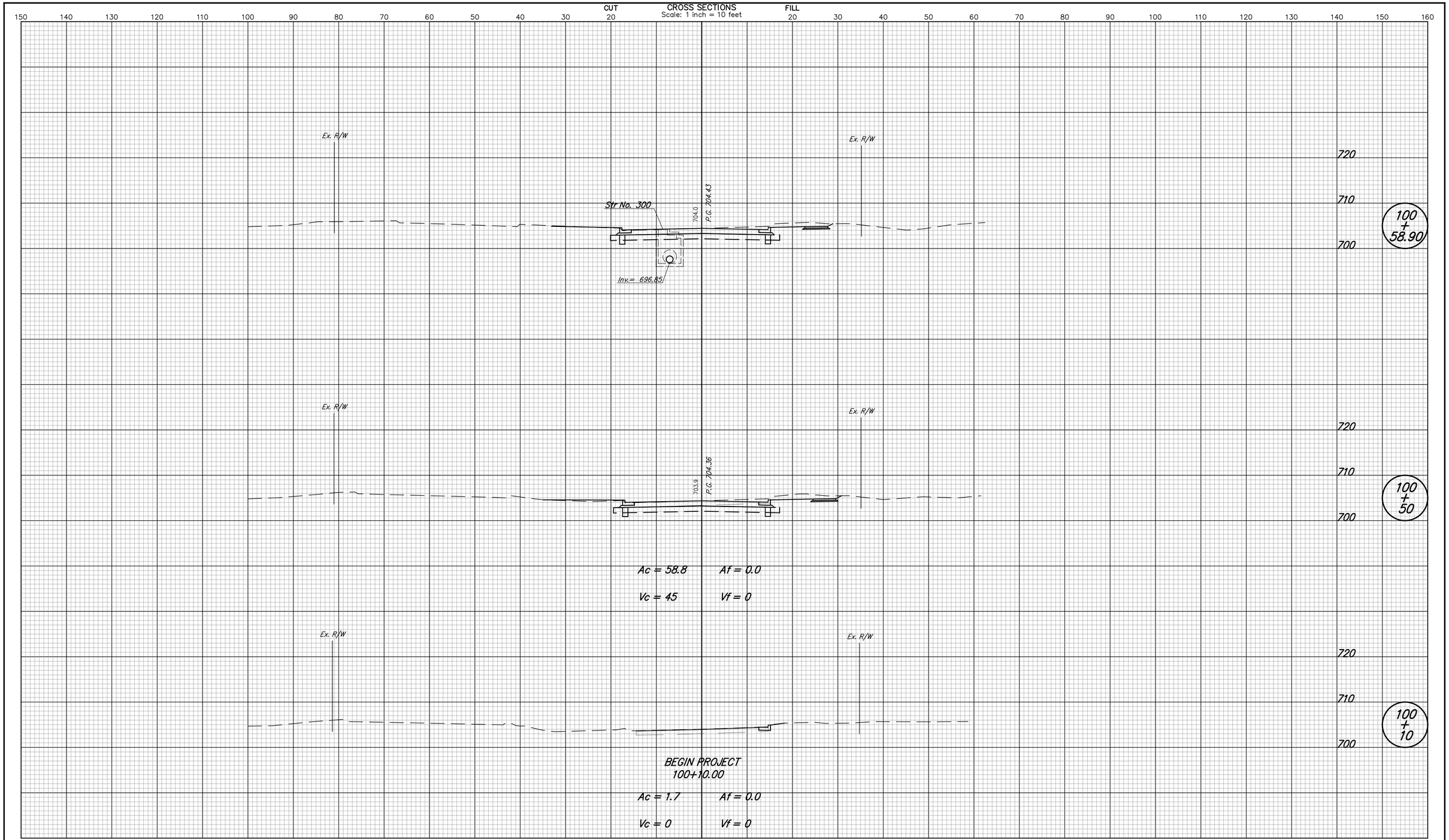
STRUCTURE DATA TABLE

HORIZONTAL SCALE N/A

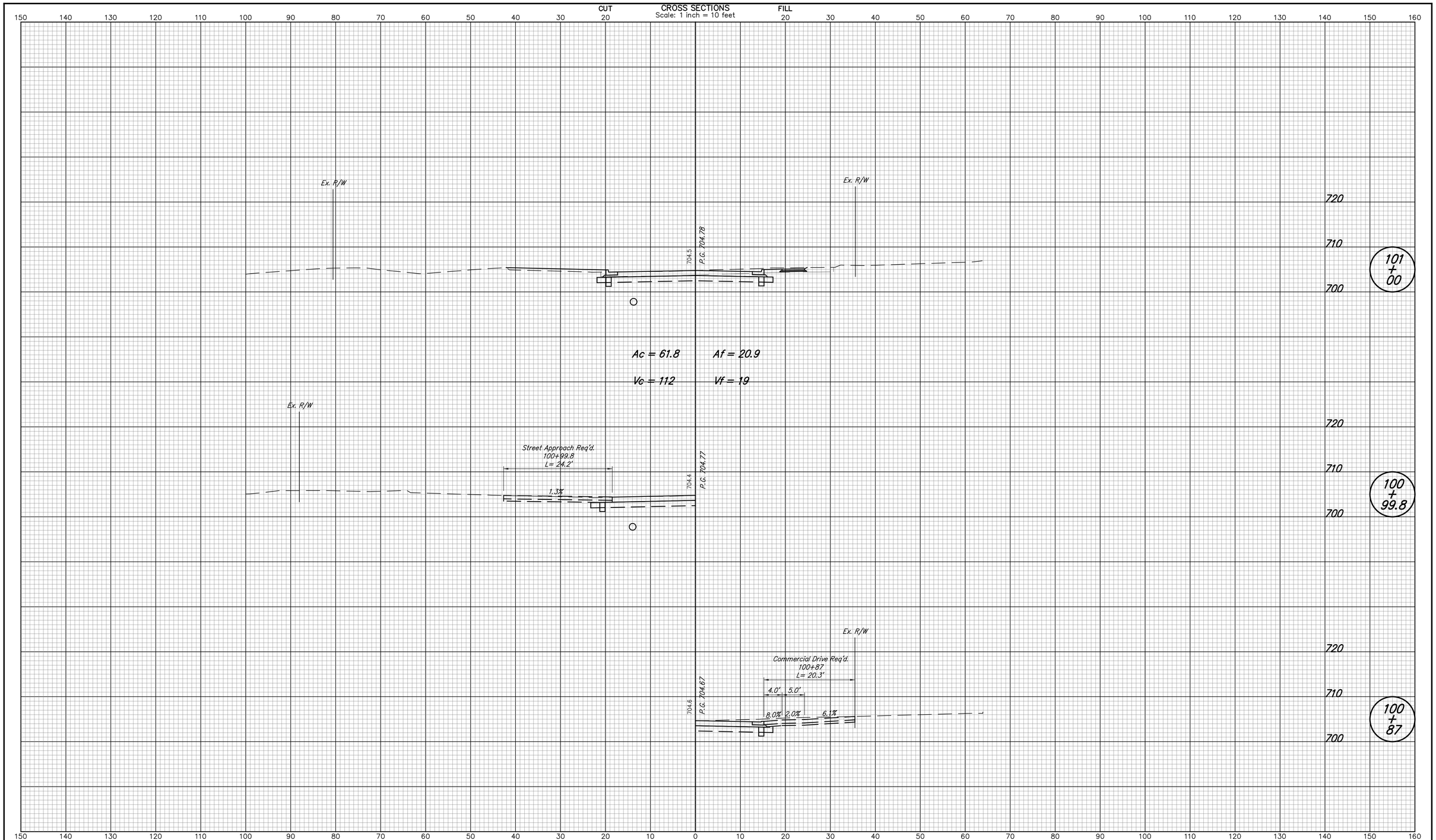
VERTICAL SCALE N/A

SHEETS 104 of 181

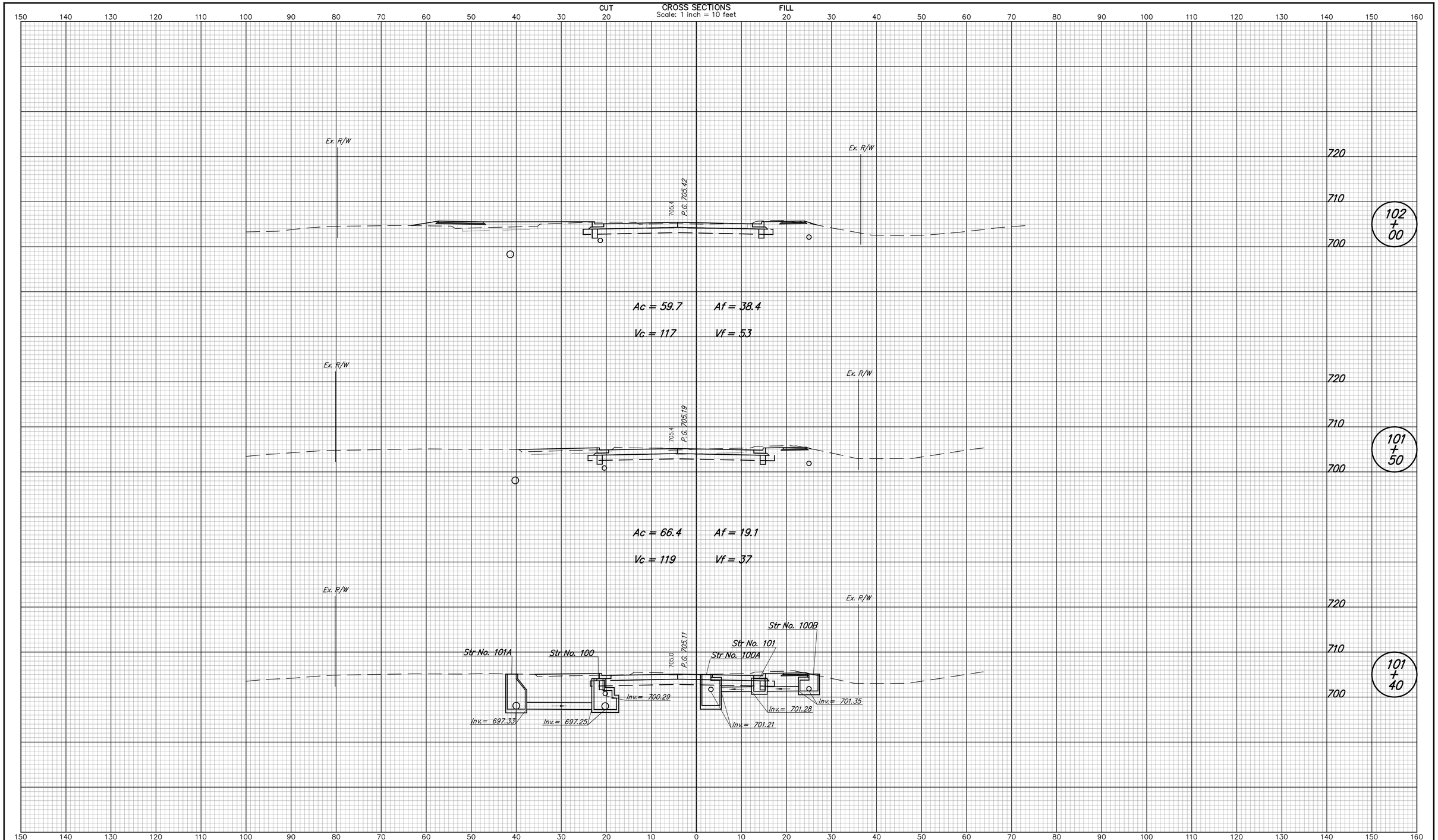
PROJECT NO.



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A1"	VERTICAL SCALE 1" = 10'
			SHEETS 105 of 181
			PROJECT NO.



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A1"	SHEETS 106 of 181 / PROJECT NO.



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A1"	SHEETS 107 of 181 / PROJECT NO.

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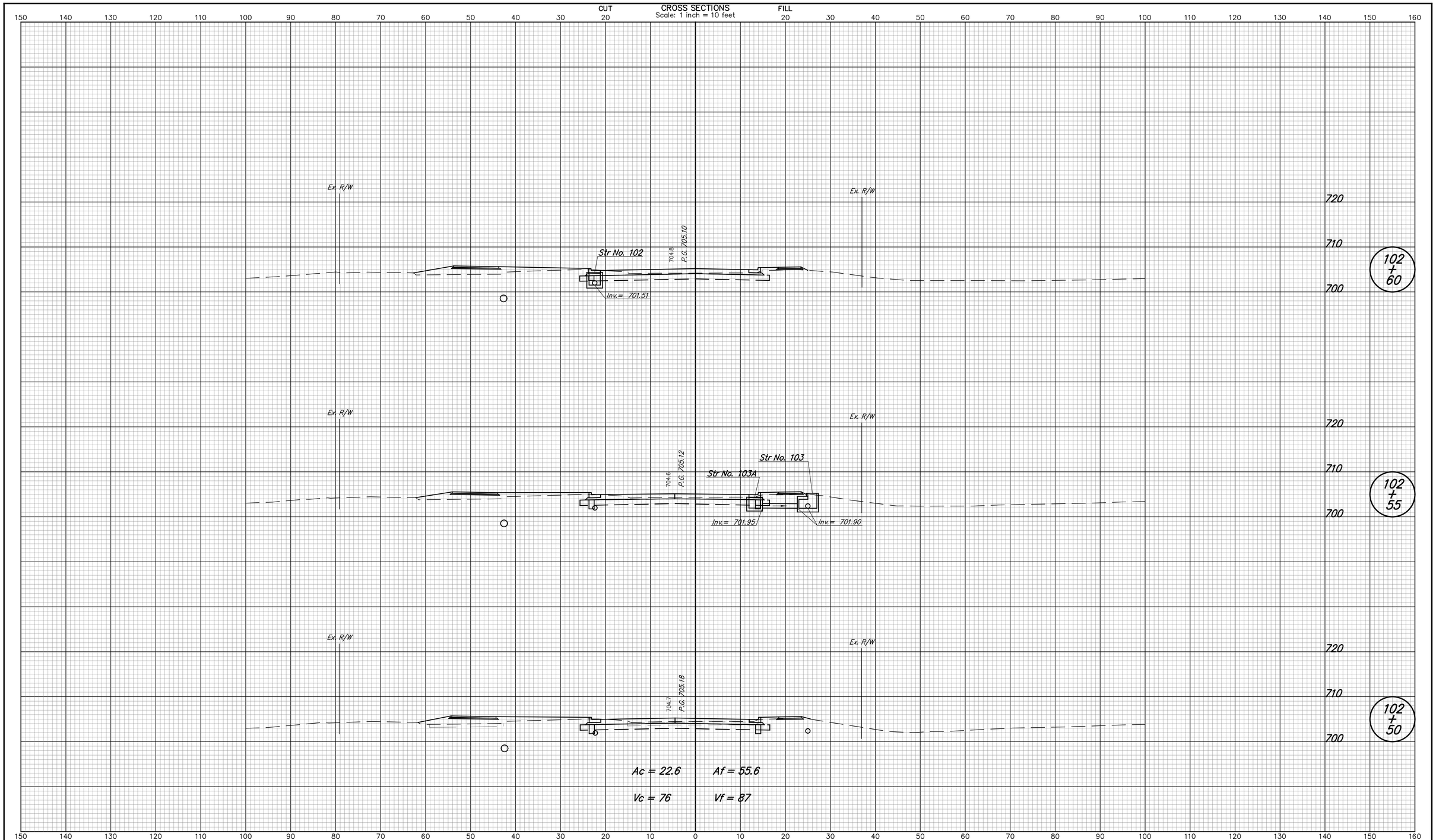
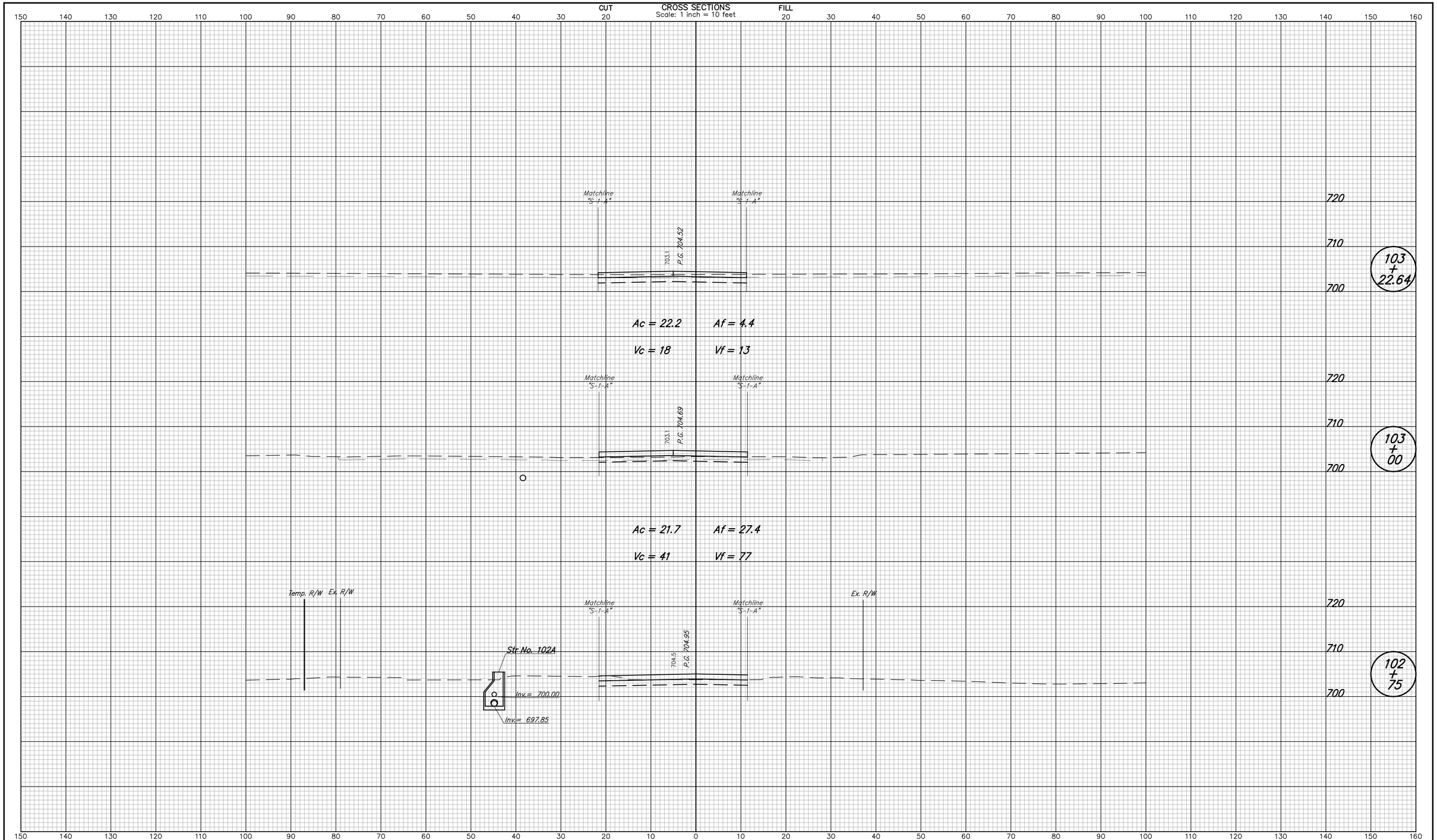
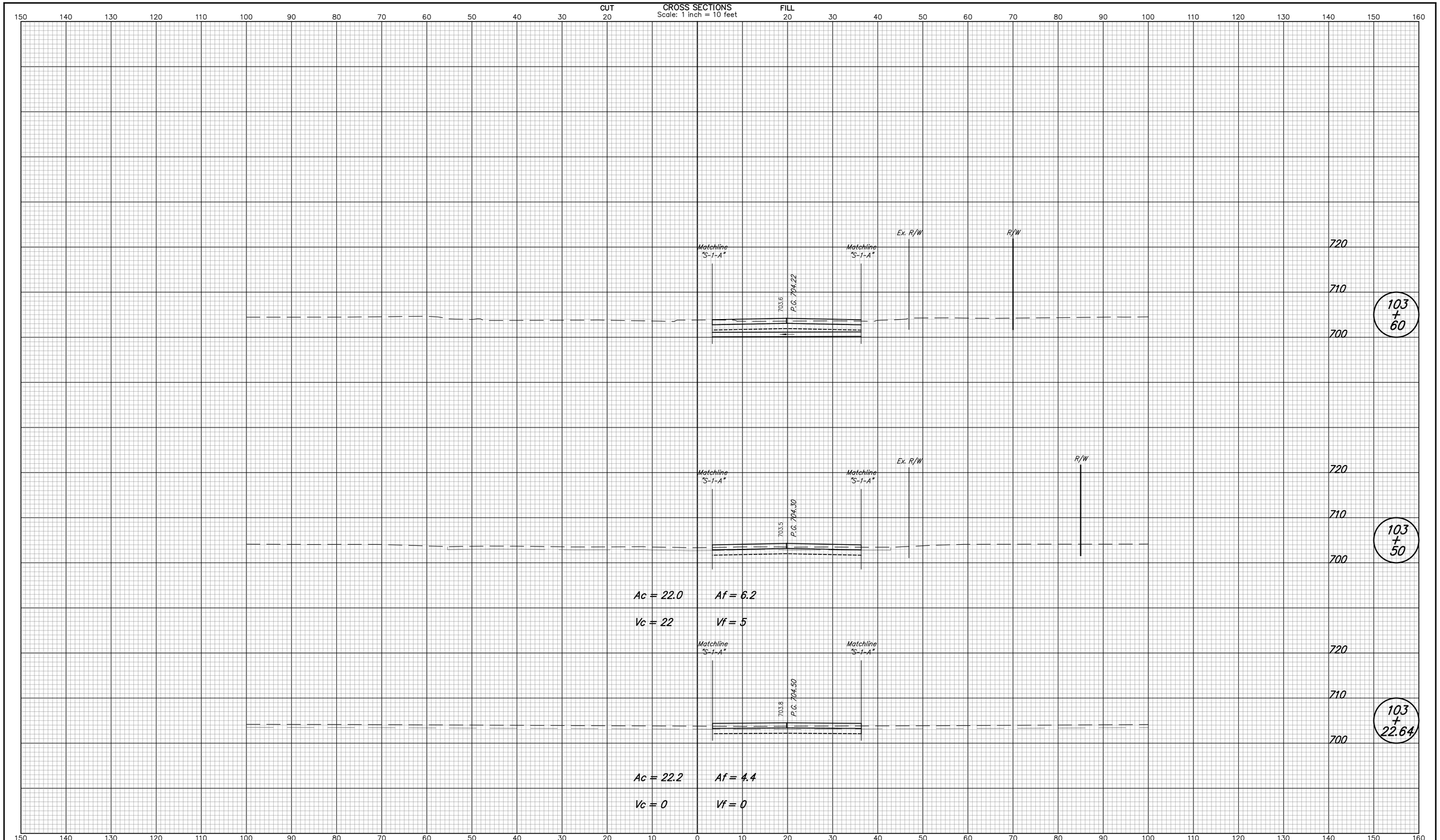


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A1"	VERTICAL SCALE 1" = 10'
			SHEETS 108 of 181
			PROJECT NO.



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A1"	VERTICAL SCALE 1" = 10'
			SHEETS 109 of 181
			PROJECT NO.



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 110 of 181 / PROJECT NO.

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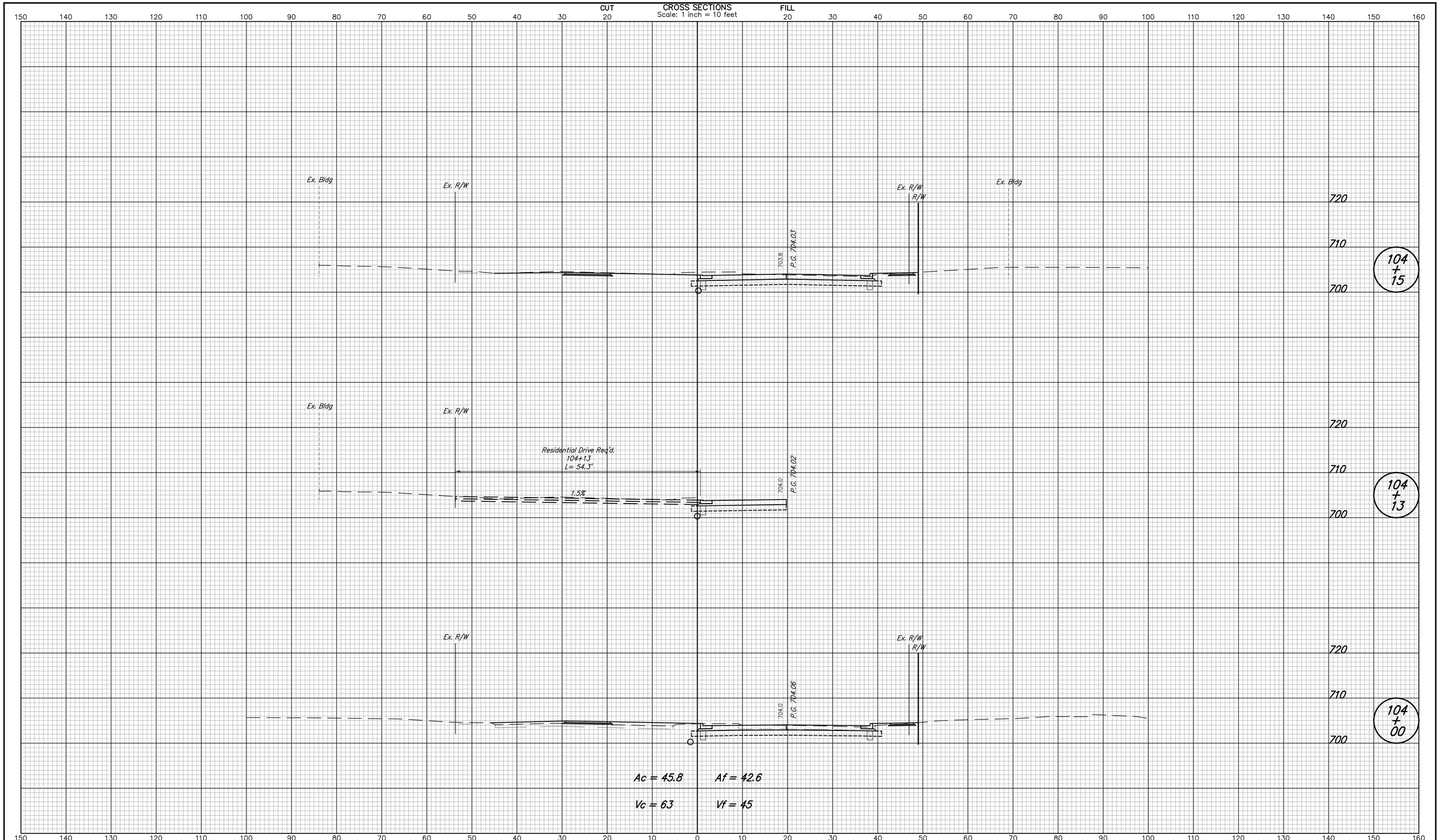

DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 111 of 181
			PROJECT NO.

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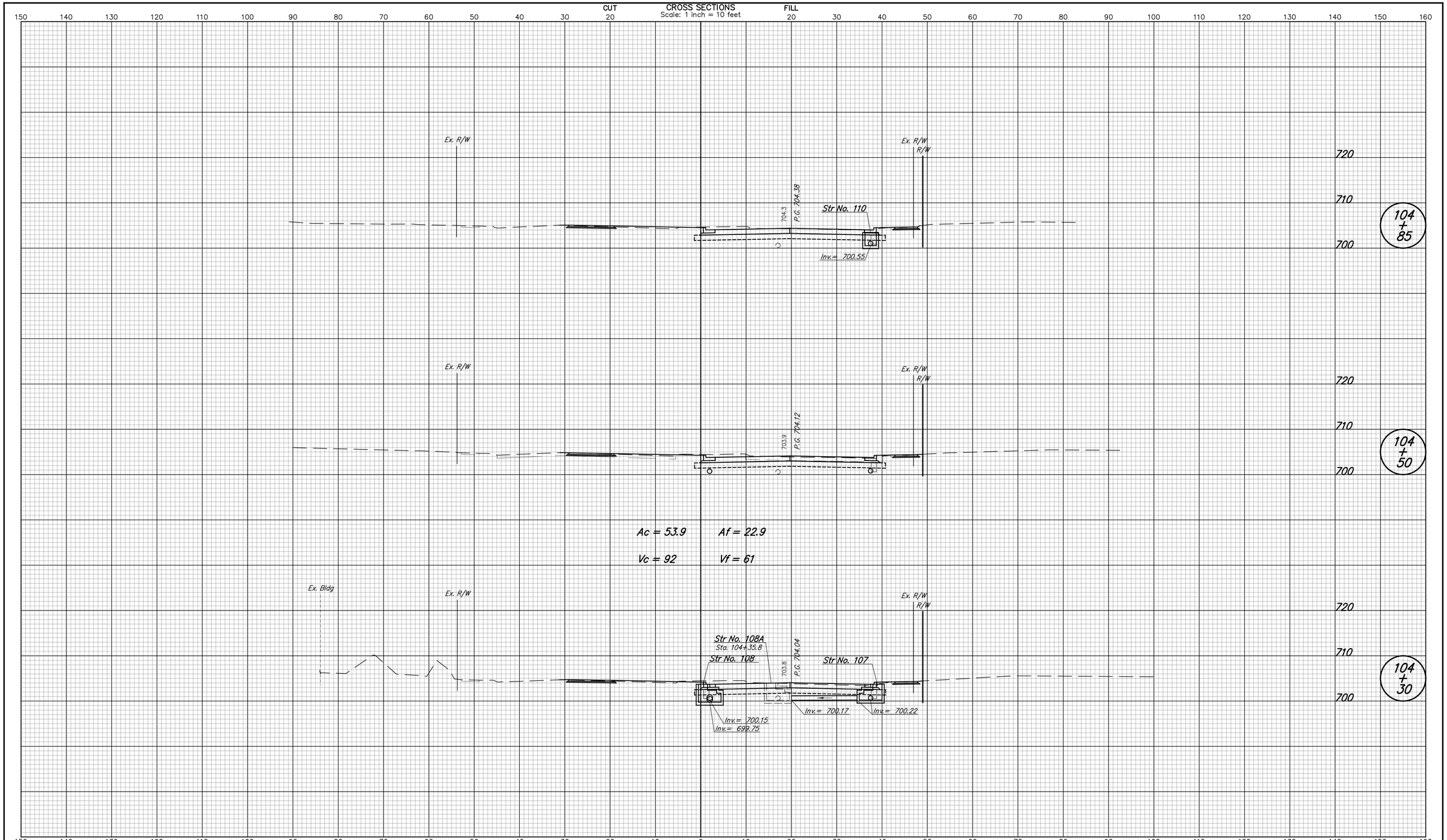

DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 112 of 181
			PROJECT NO.

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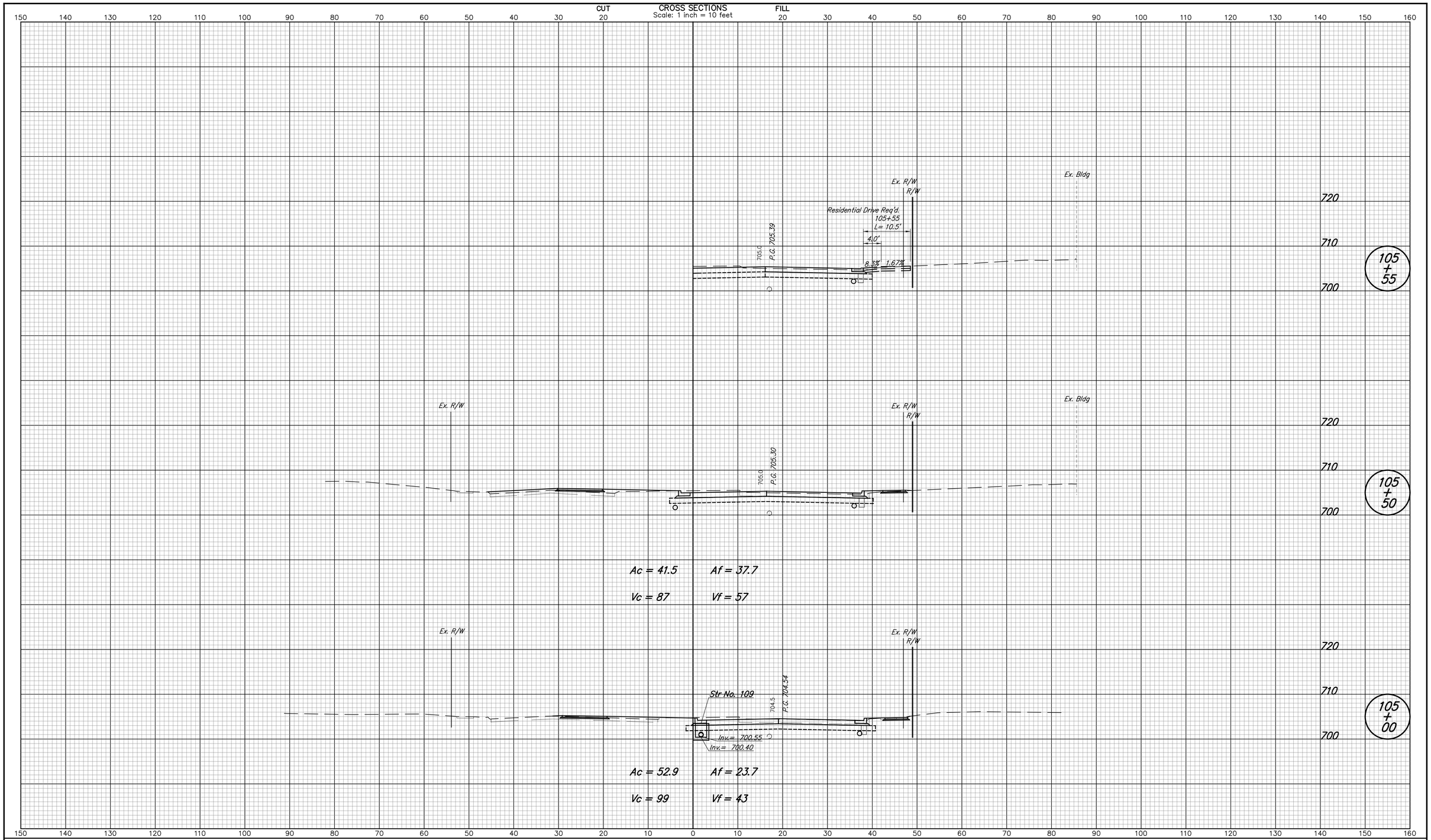

DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 113 of 181 / PROJECT NO.

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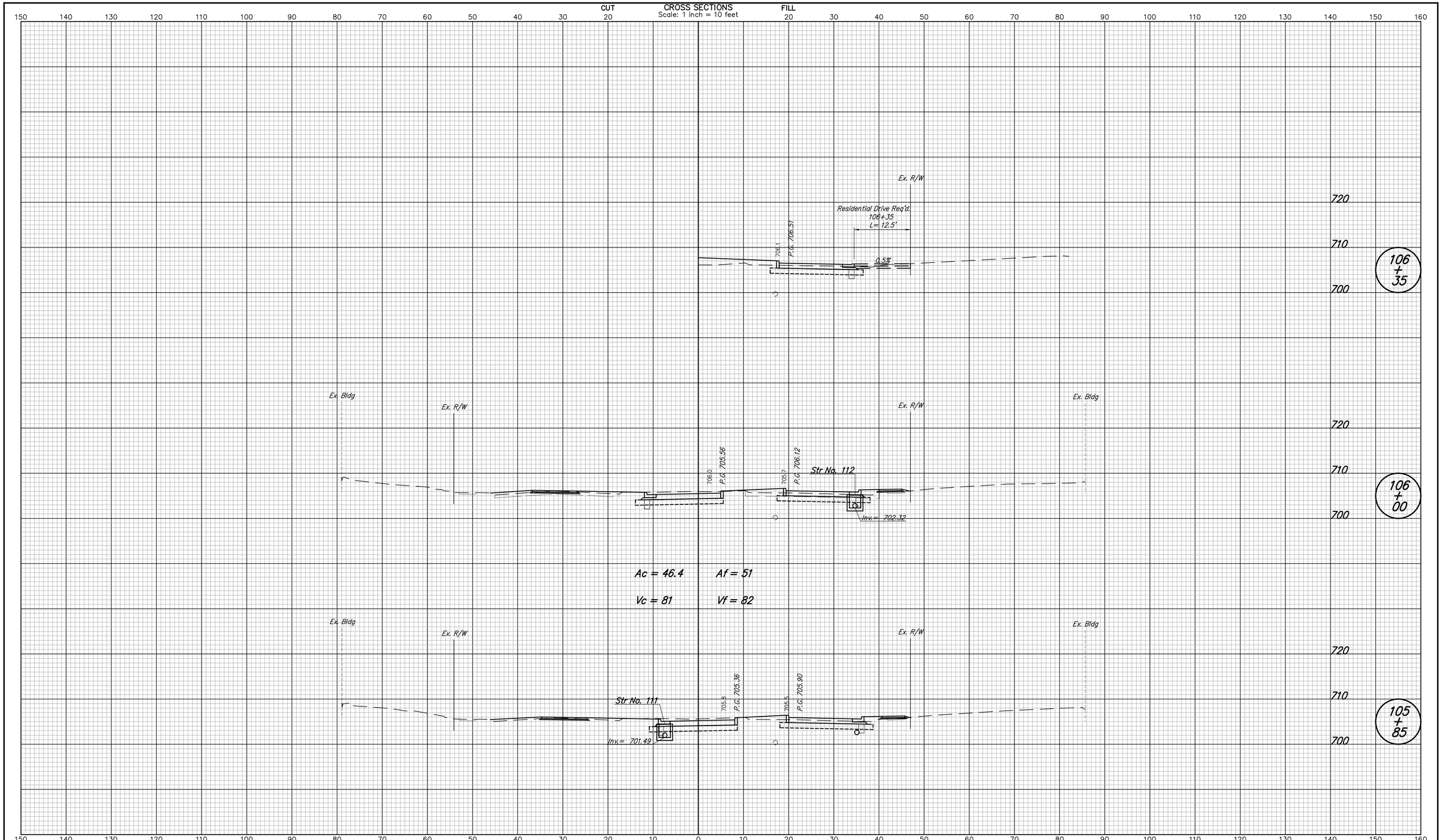
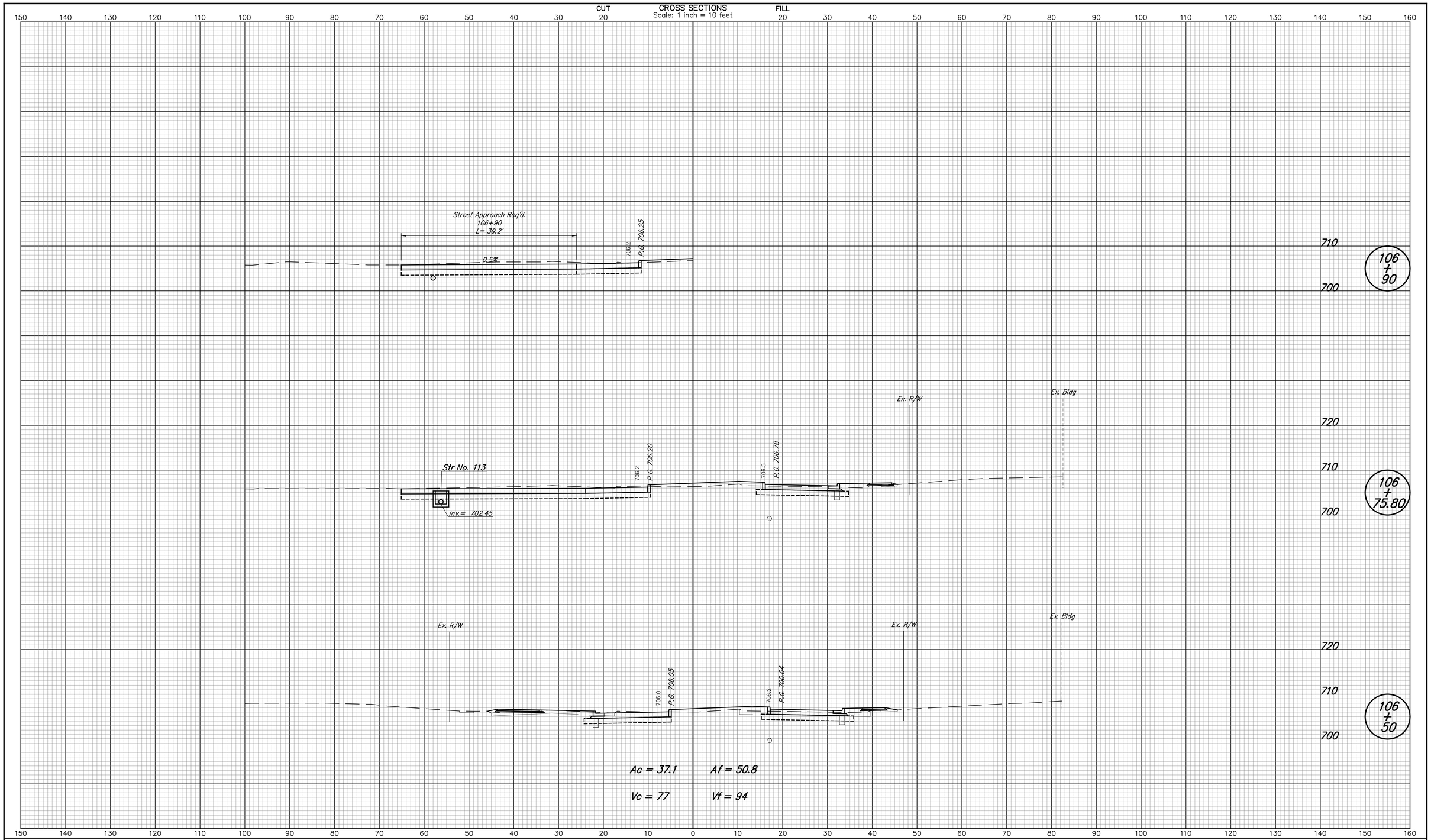


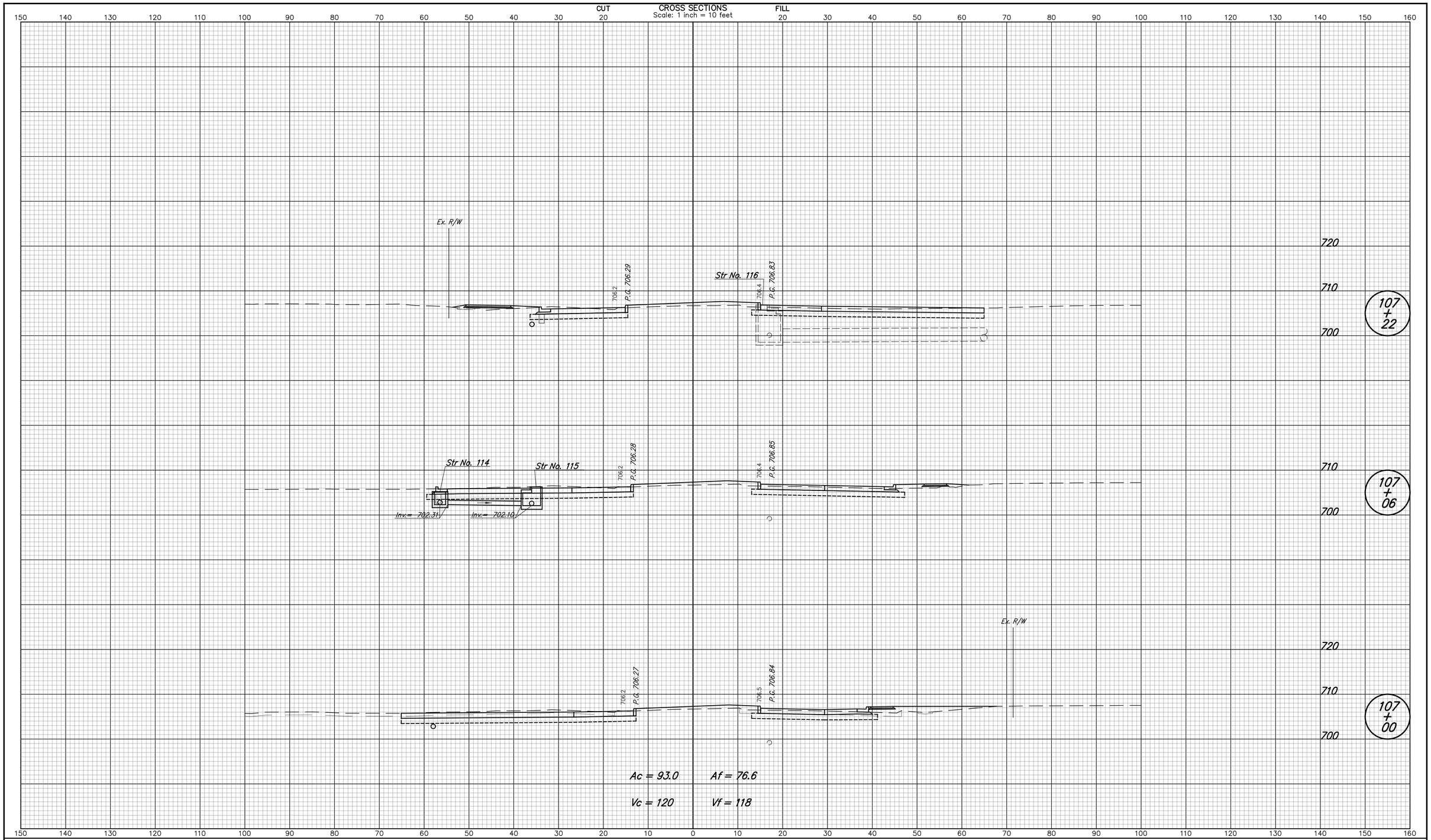
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 114 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:25:48 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



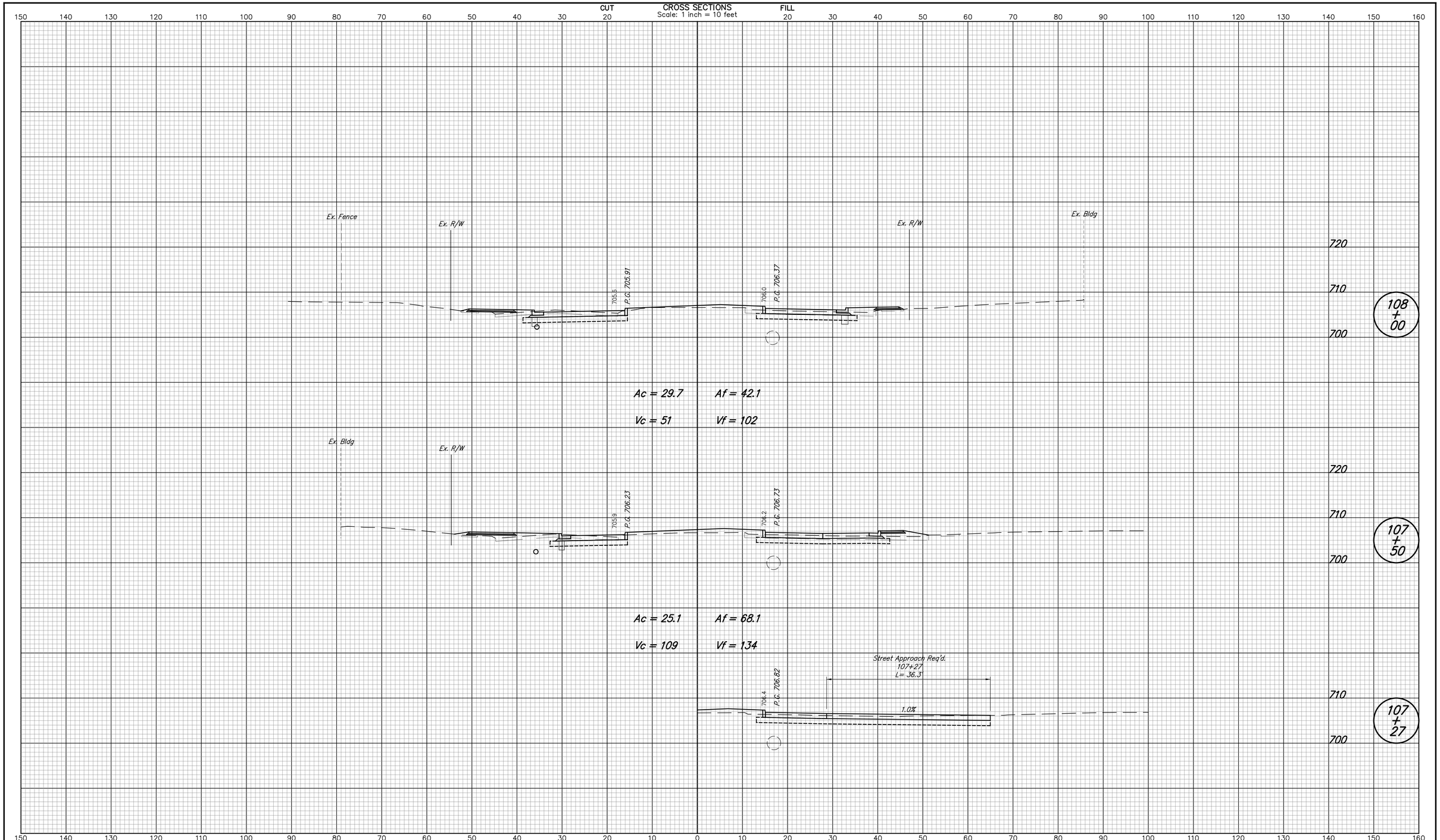
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 115 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:25:50 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



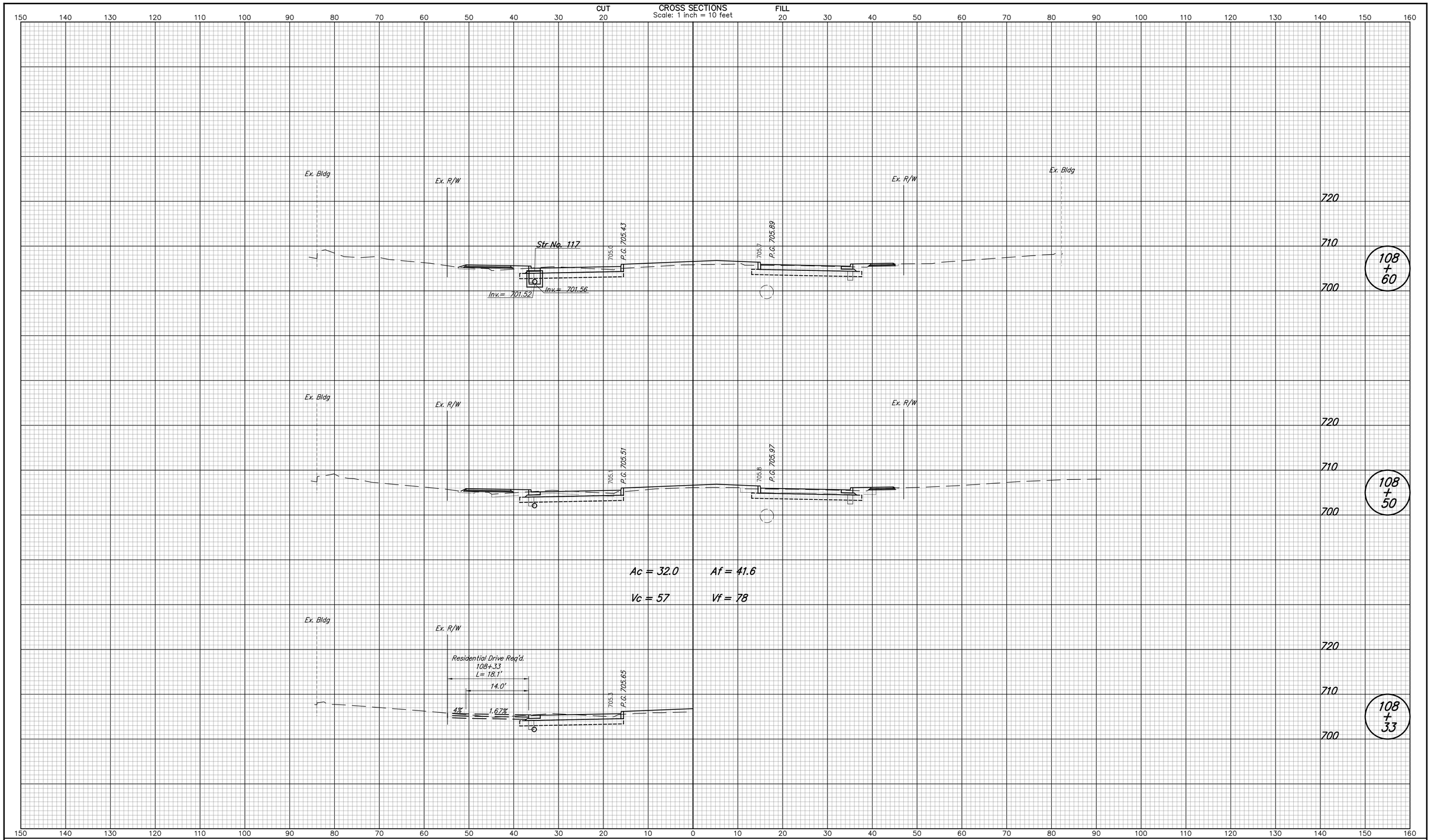
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 116 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:25:52 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

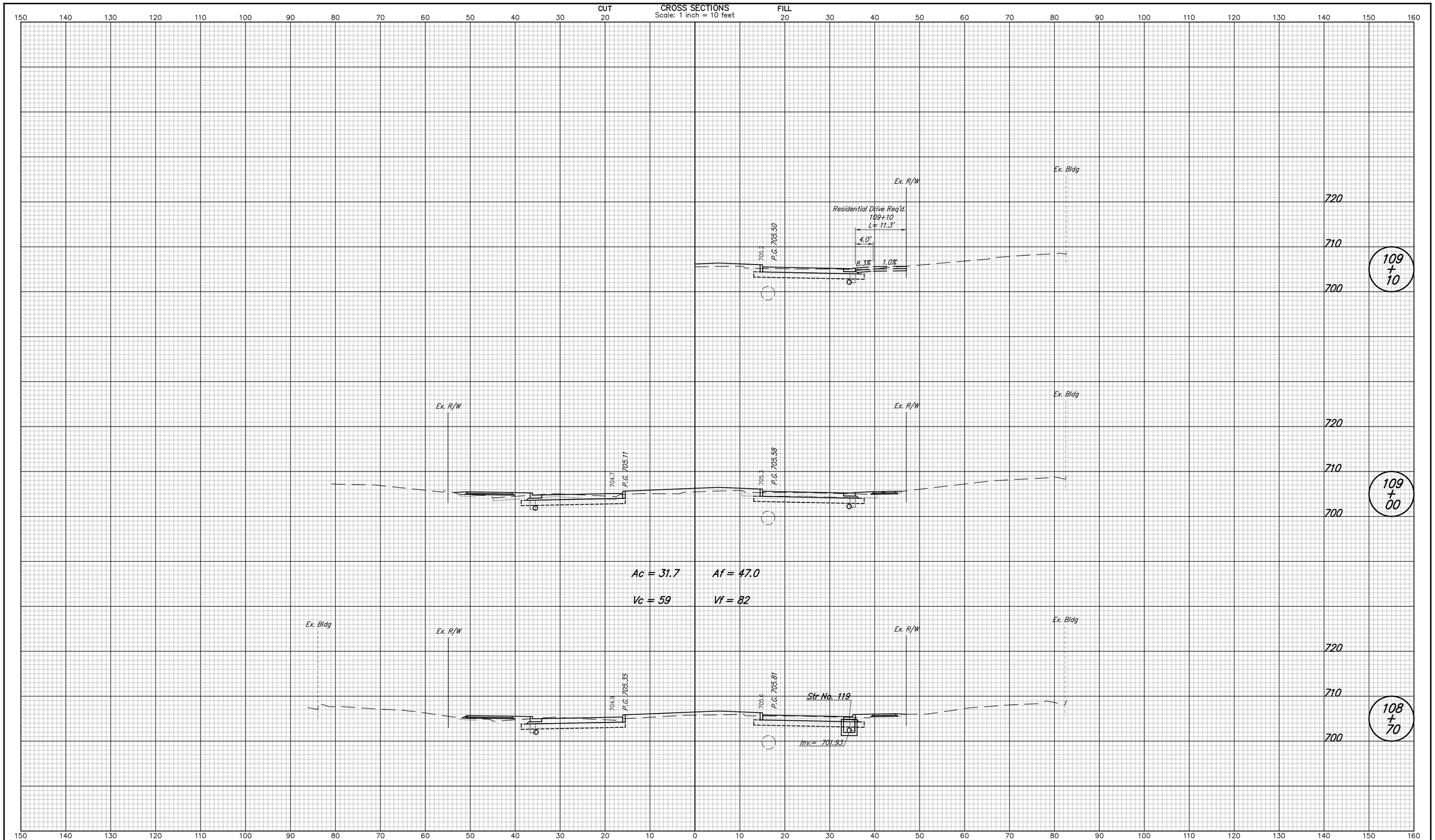


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 117 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:25:54 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn

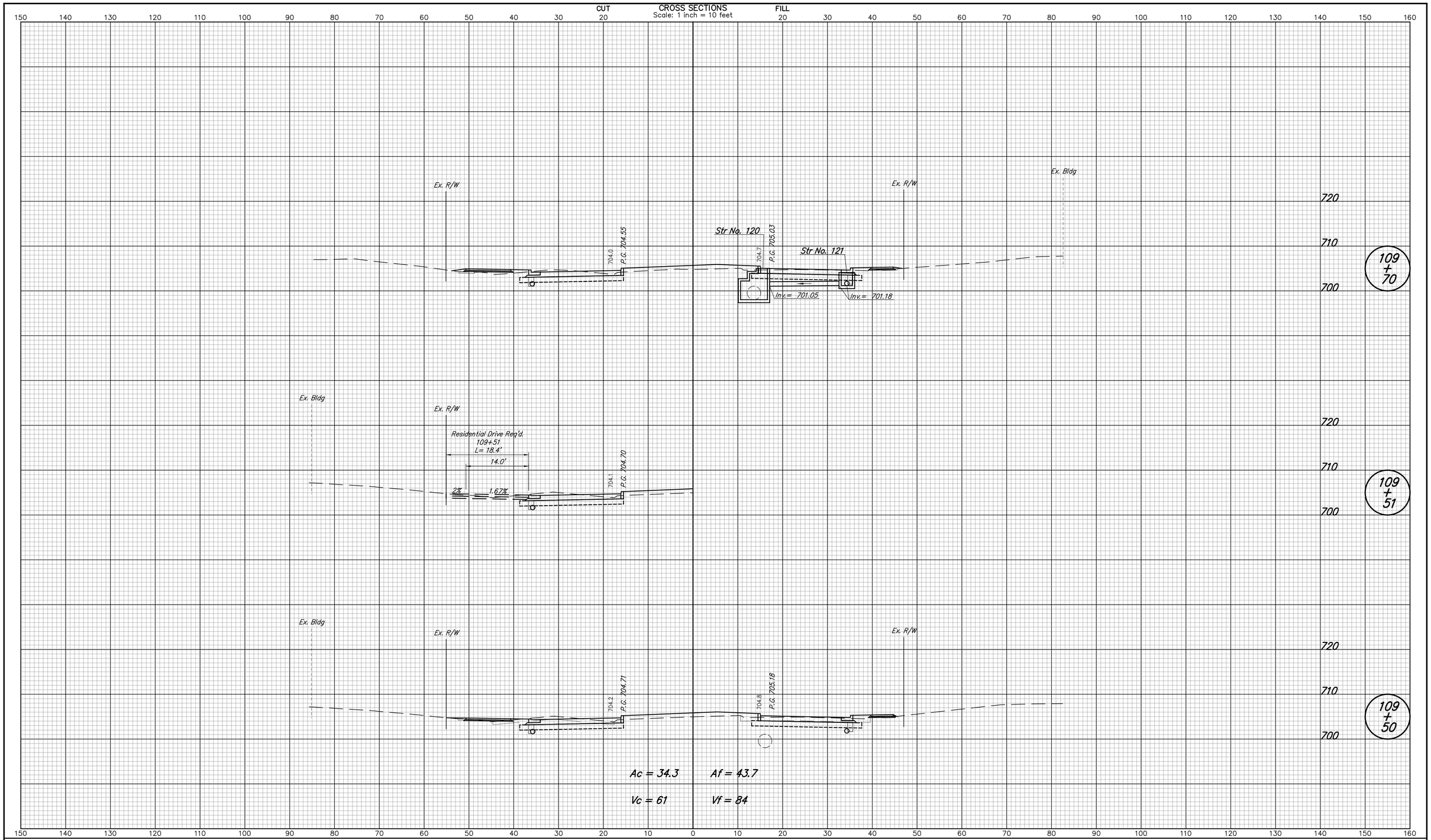


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 118 of 181 / PROJECT NO.



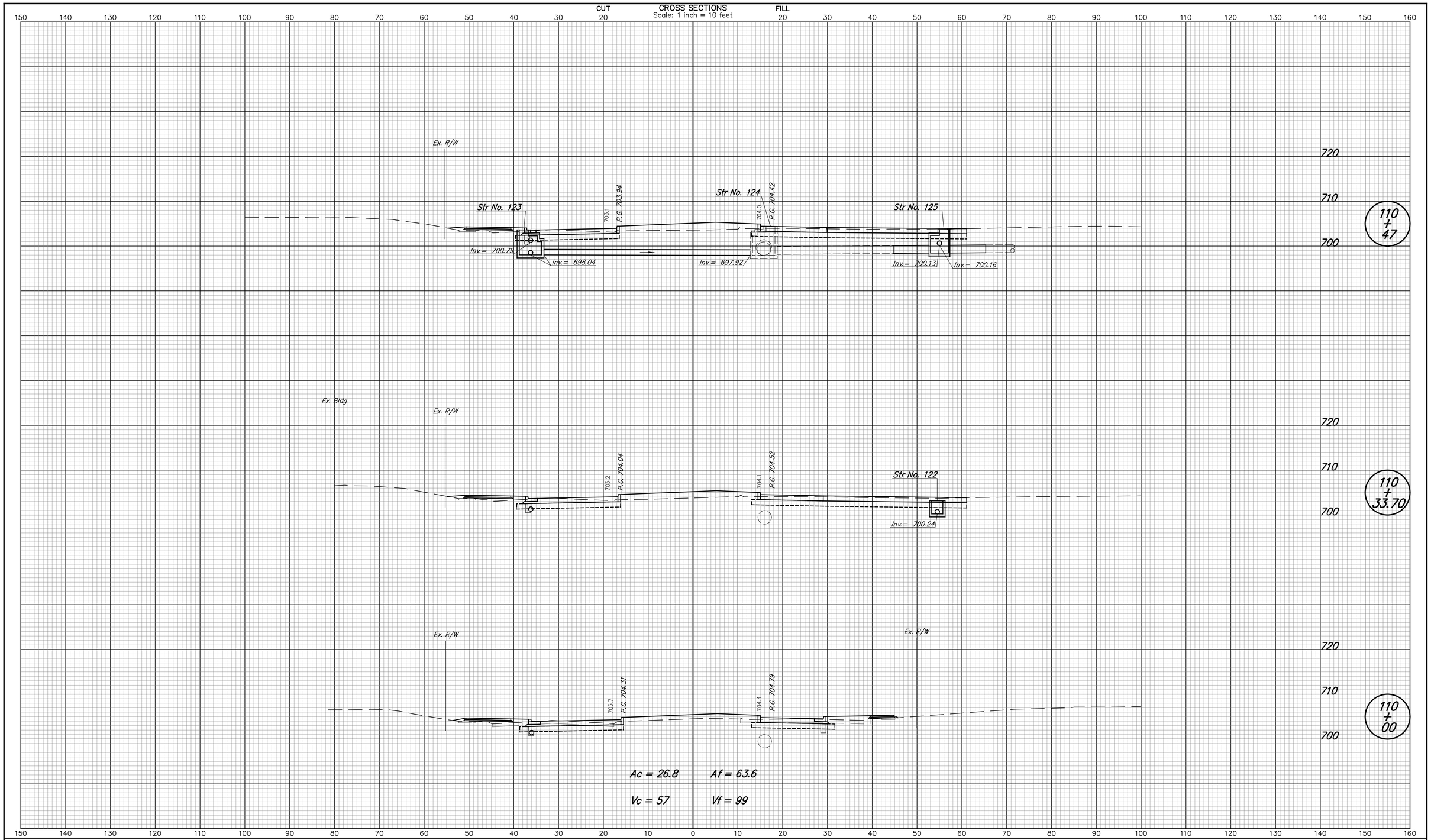
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 119 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:25:58 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

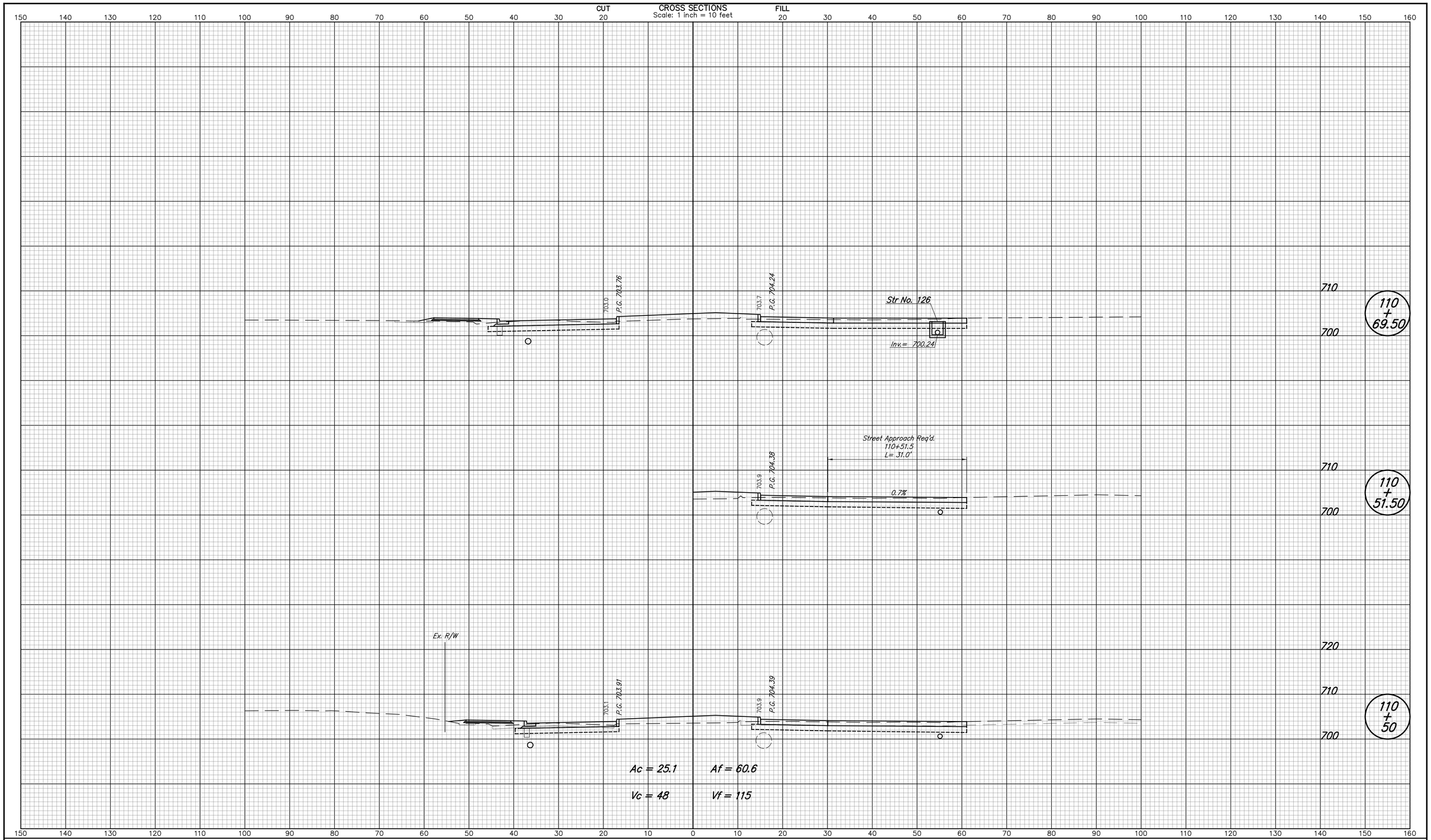


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 120 of 181 / PROJECT NO.

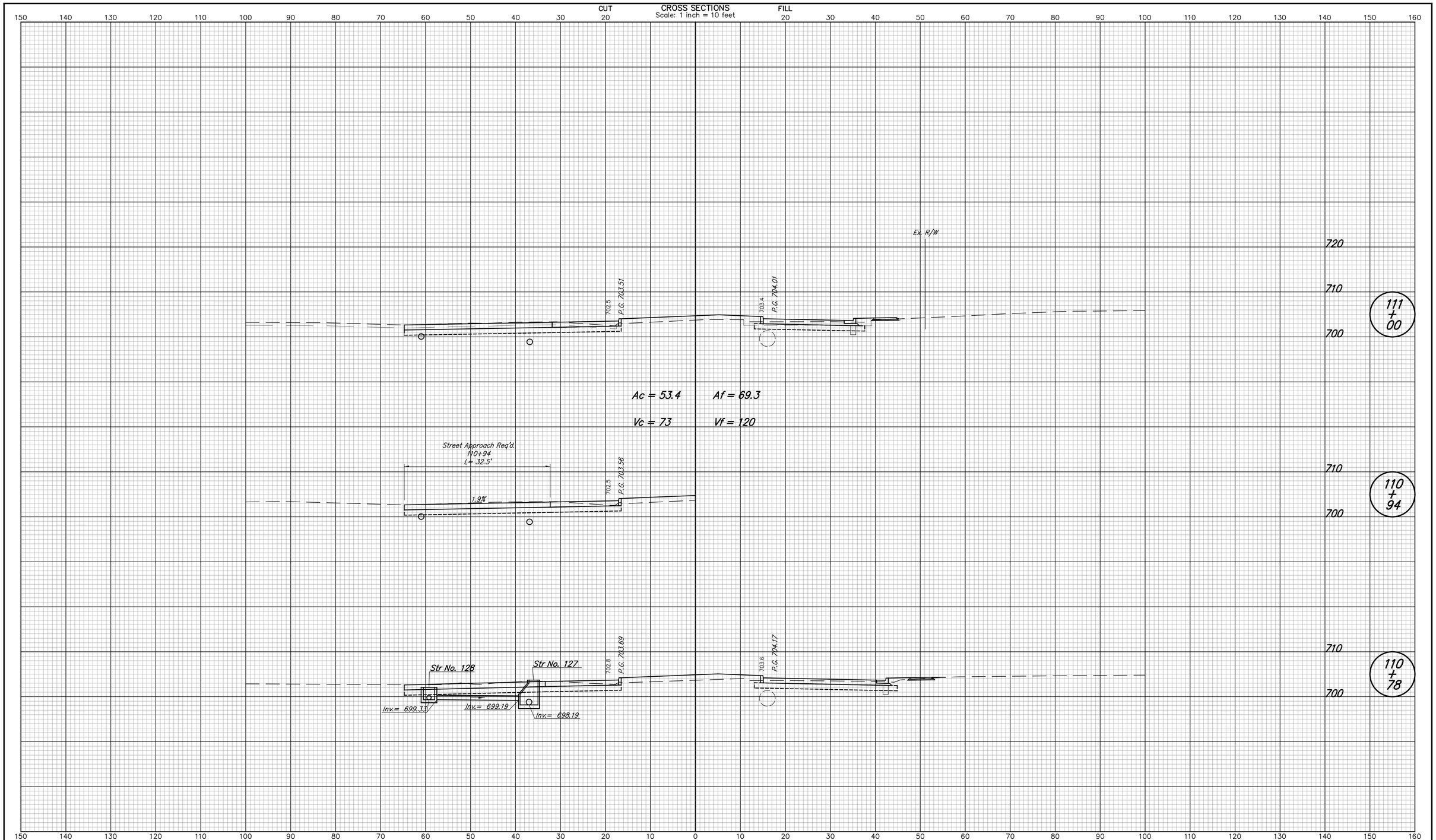
nmurphy 5/8/2014 10:26:00 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 121 of 181
			PROJECT NO.

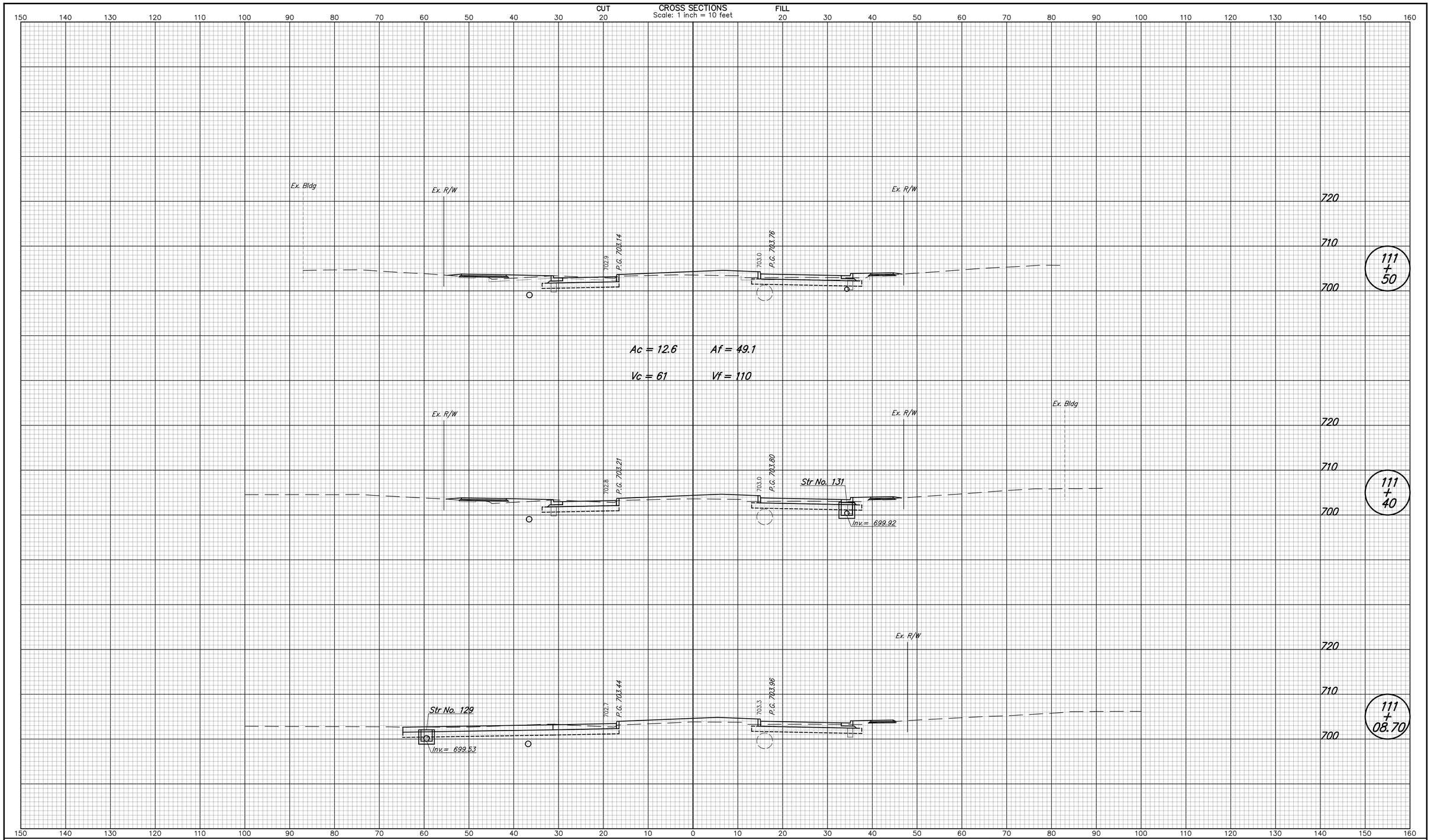


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 122 of 181
			PROJECT NO.



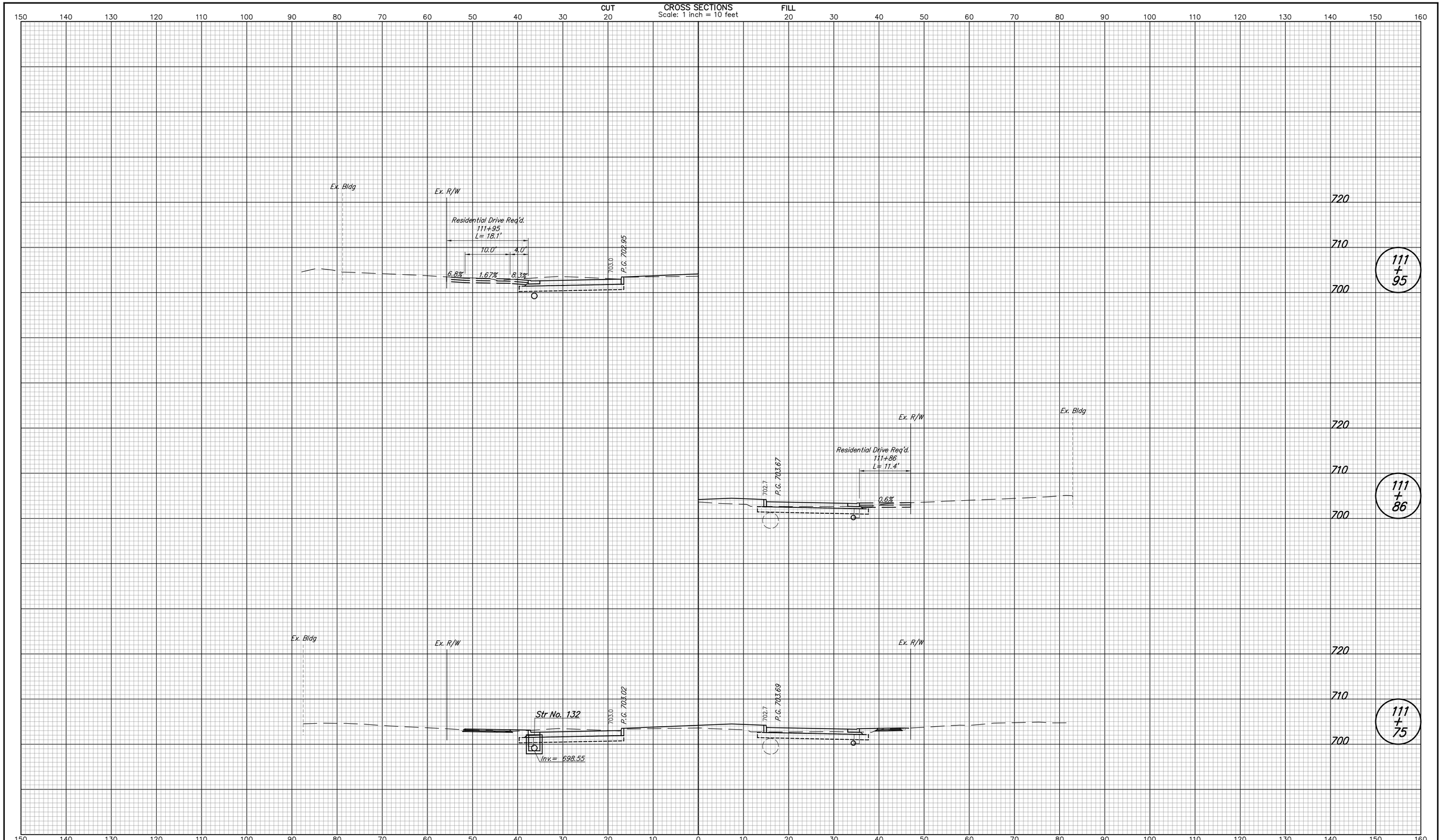
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 123 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:05 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



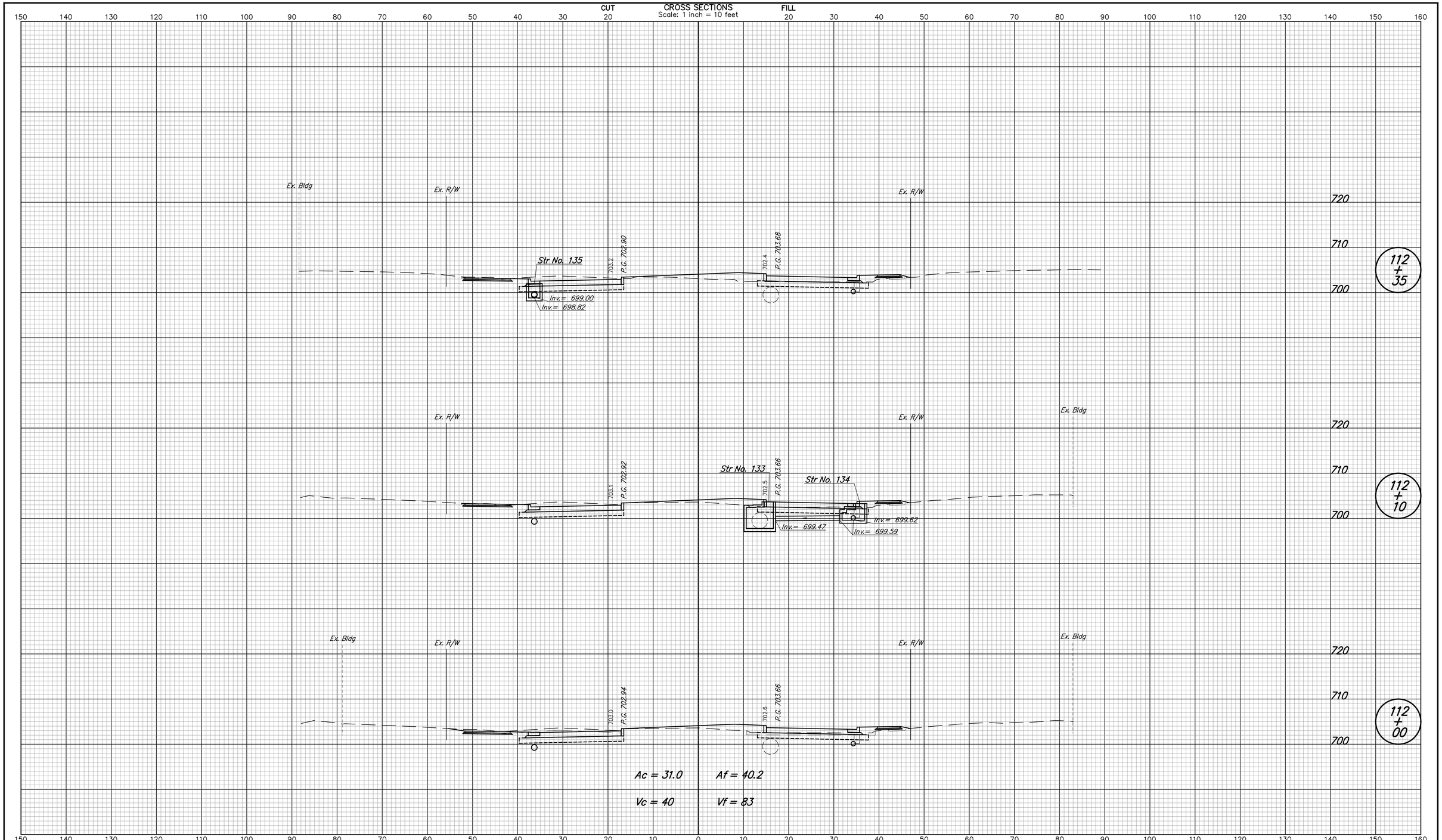
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 124 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:07 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



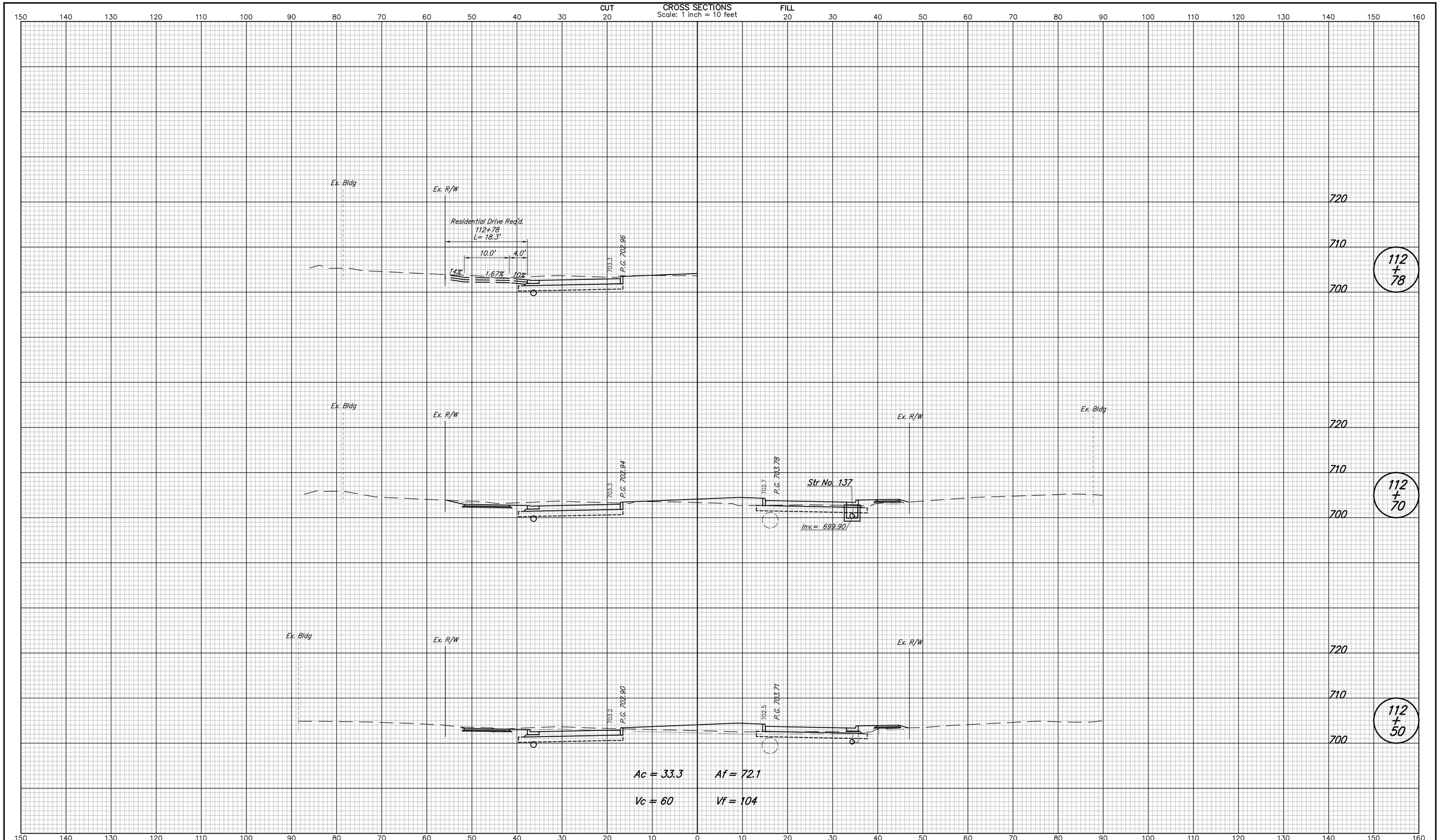
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 125 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:09 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



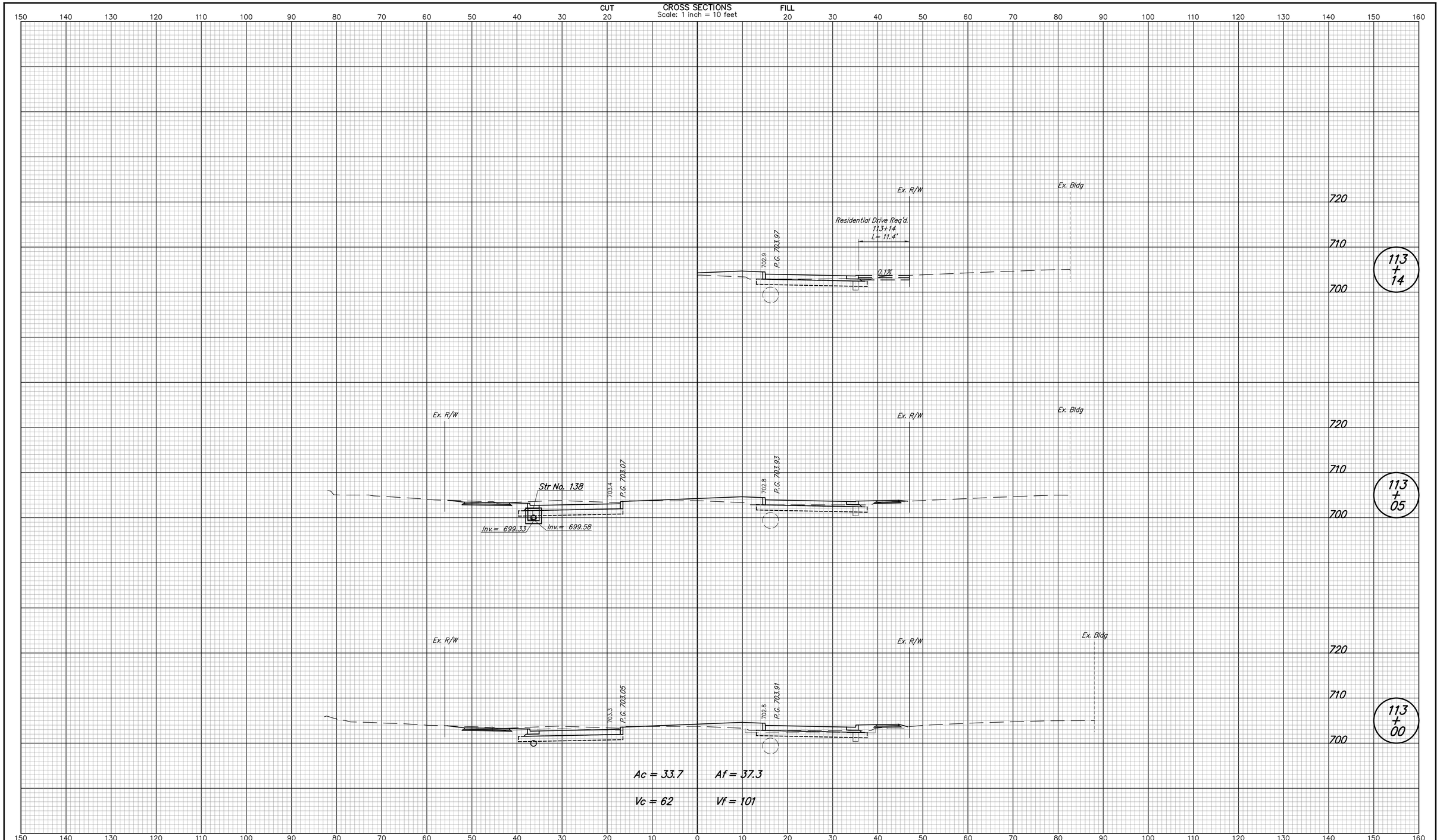
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 126 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:11 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn

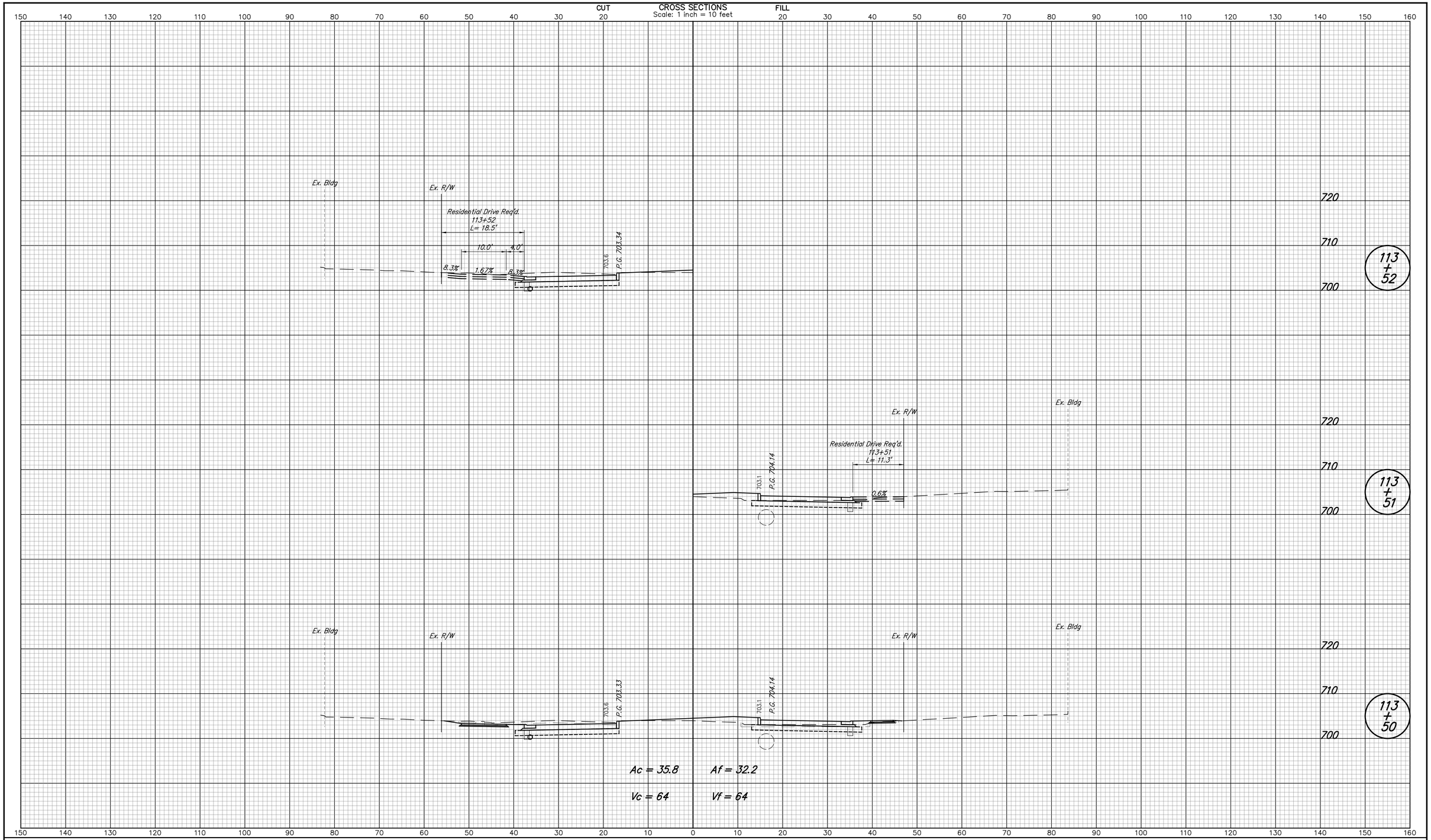


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 127 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:13 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn

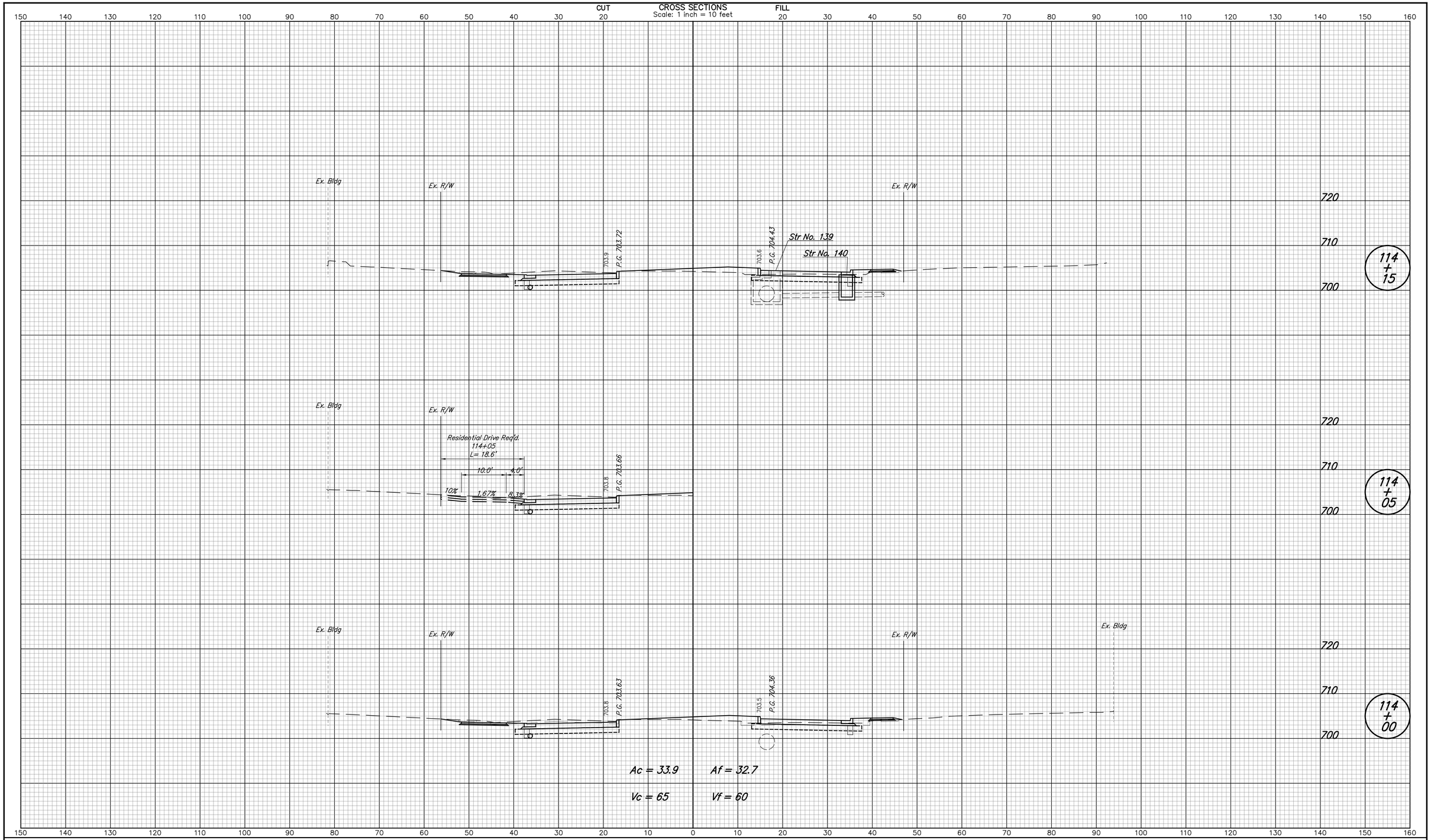


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 128 of 181
			PROJECT NO.



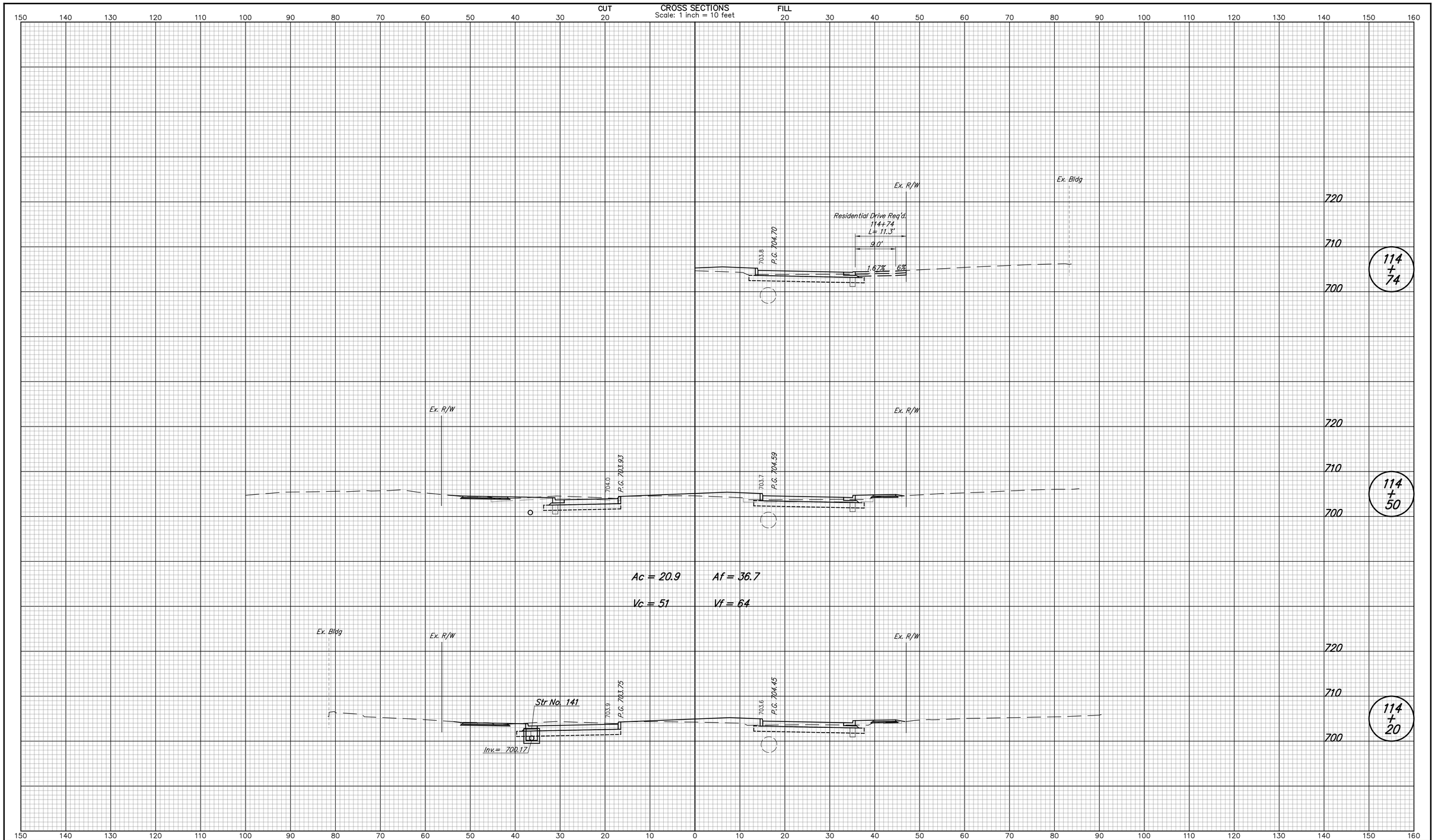
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 129 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:16 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 130 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:18 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



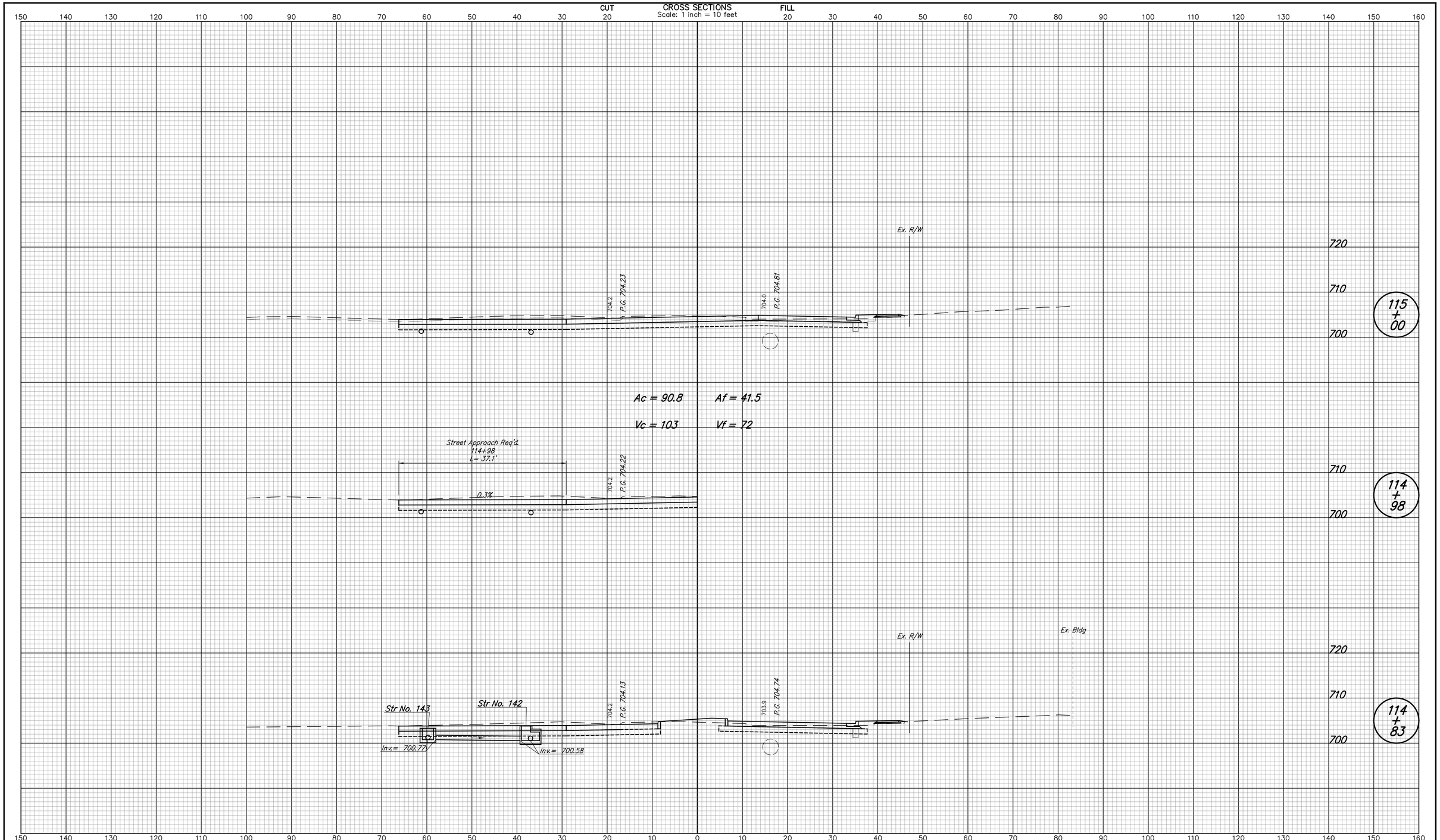
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF
WEST LAFAYETTE

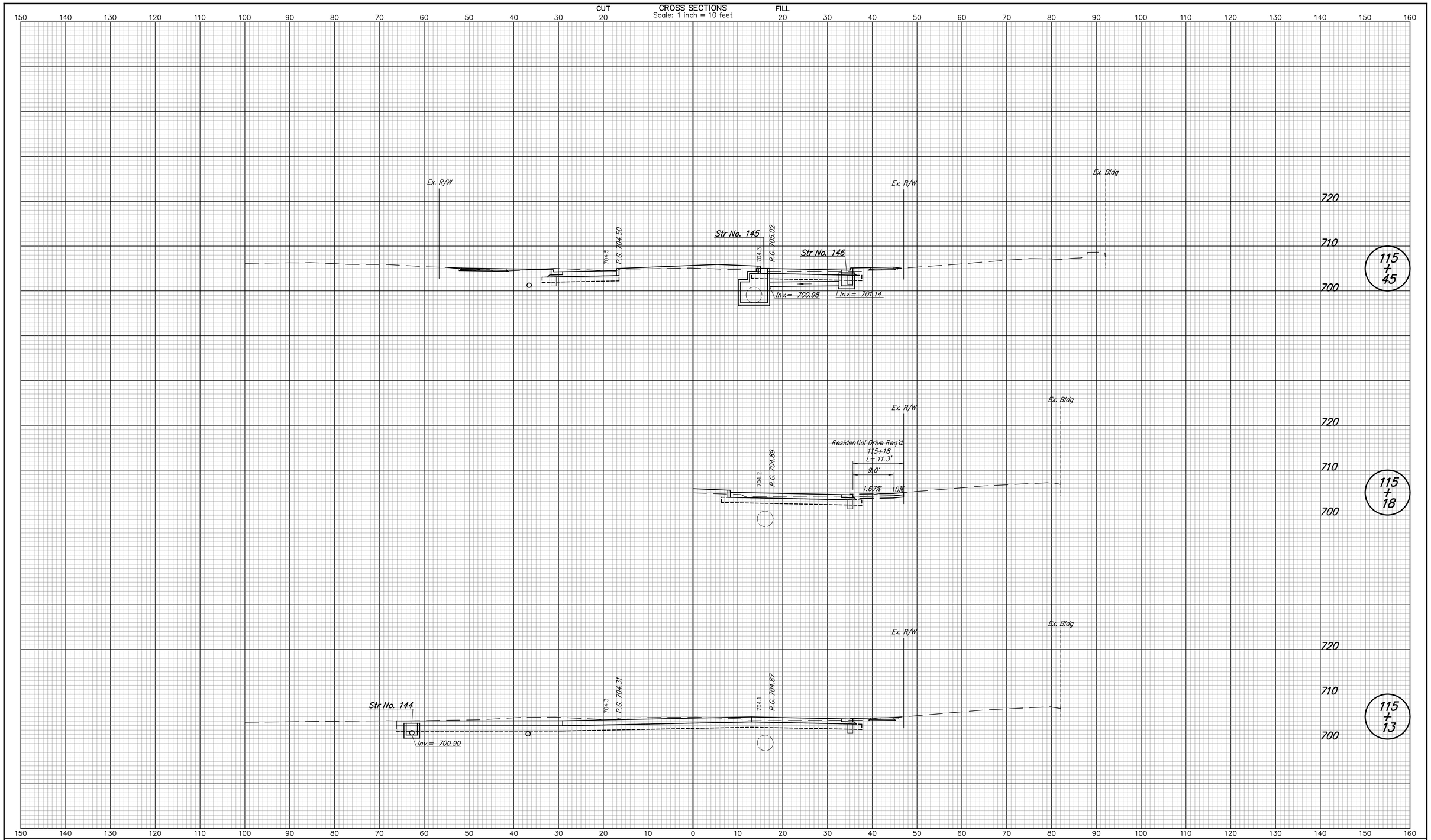
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	
1" = 10'	
VERTICAL SCALE	
1" = 10'	
SHEETS	
131 of 181	
PROJECT NO.	

nmurphy 5/8/2014 10:26:20 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 132 of 181
			PROJECT NO.

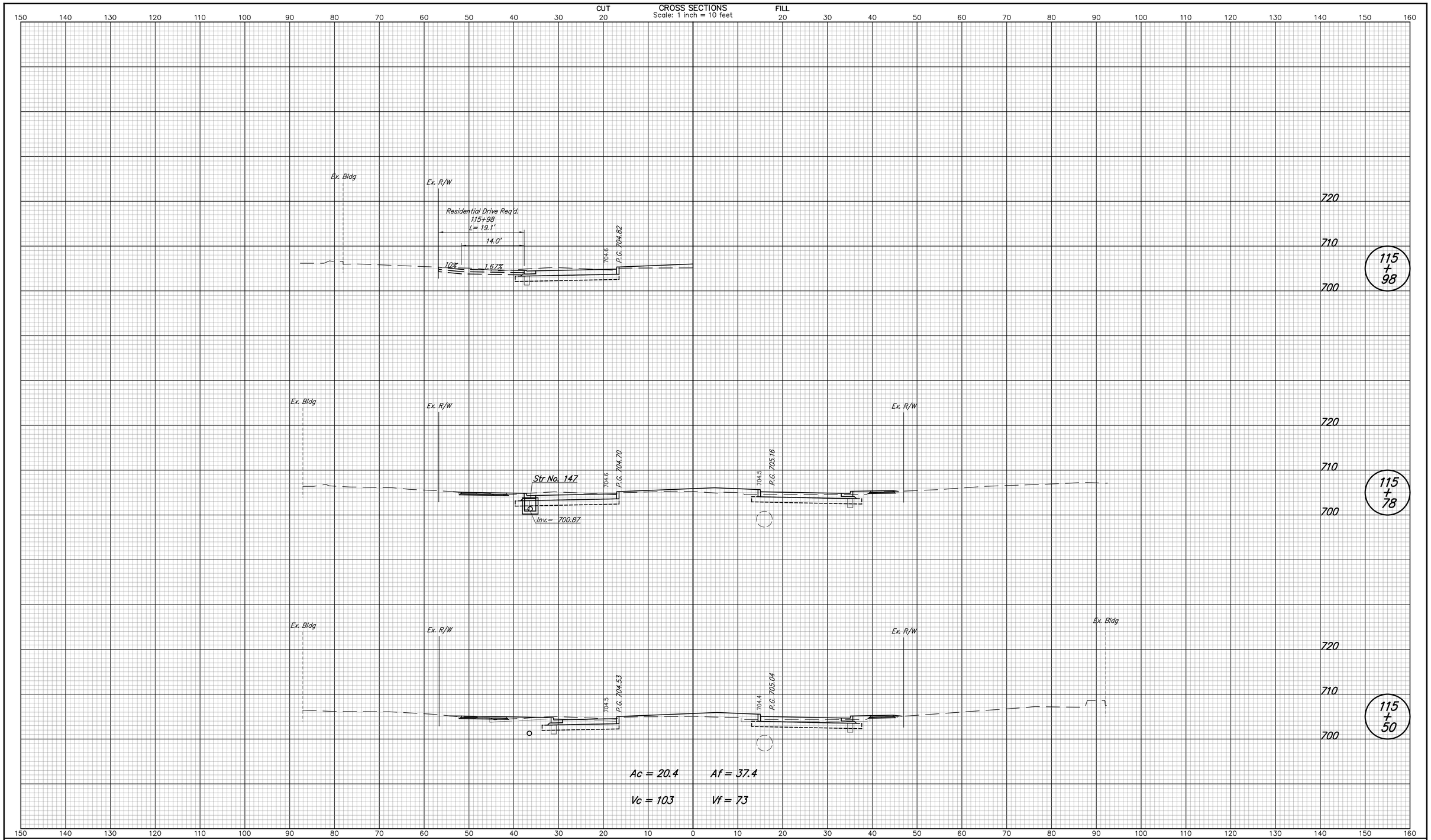


DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF
WEST LAFAYETTE

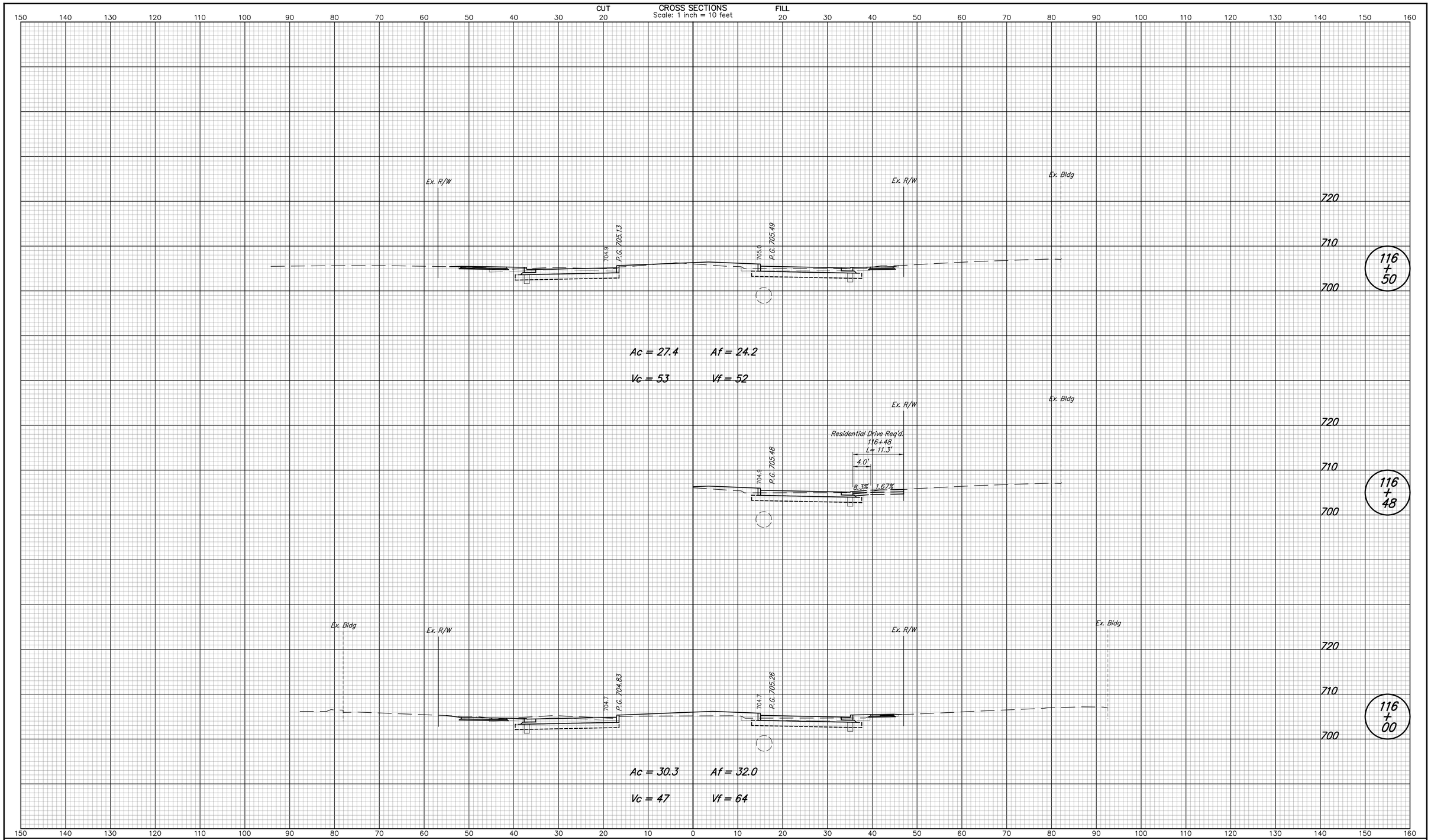
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	
1" = 10'	
VERTICAL SCALE	
1" = 10'	
SHEETS	
133 of 181	
PROJECT NO.	



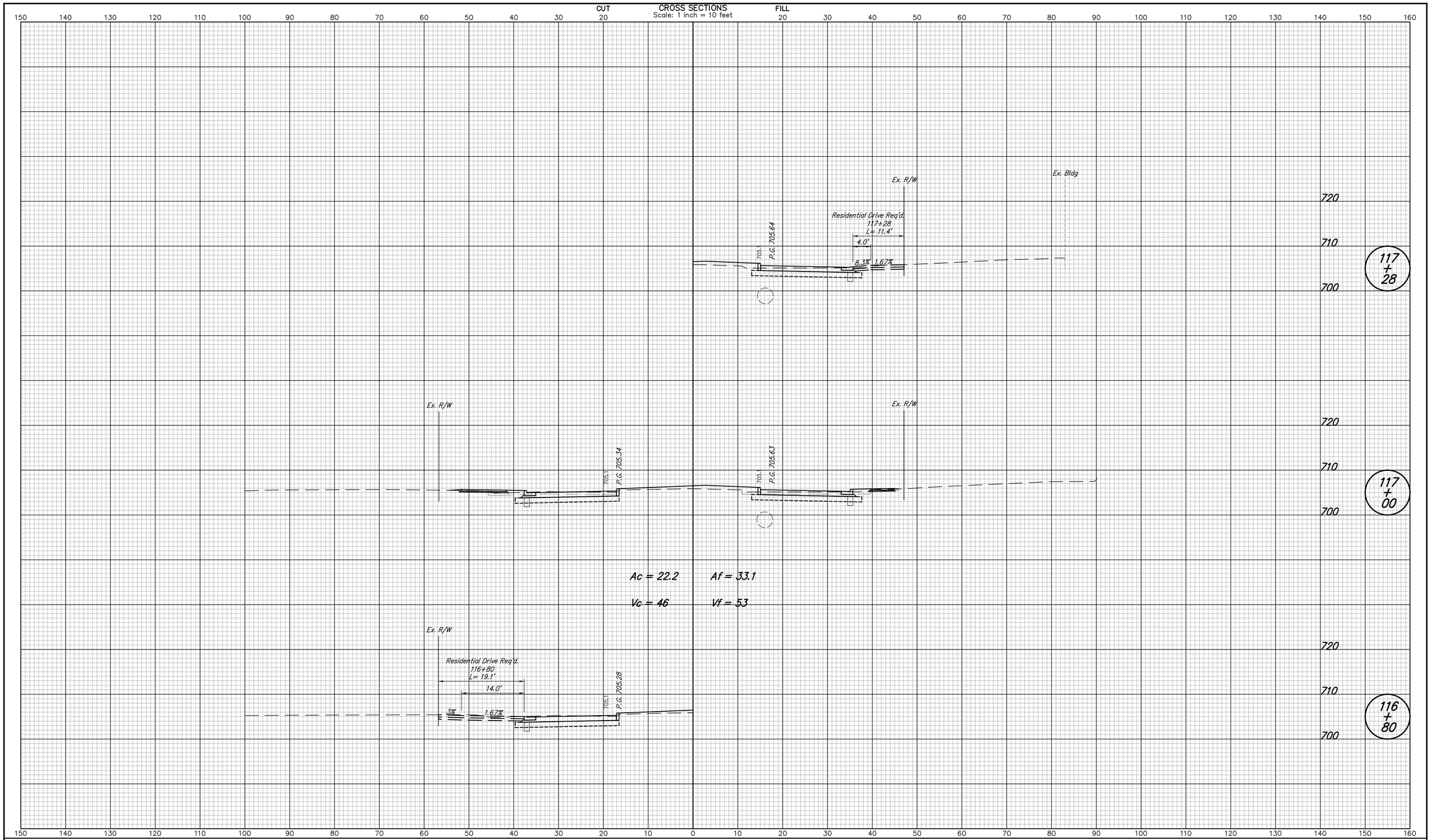
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 134 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:26 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

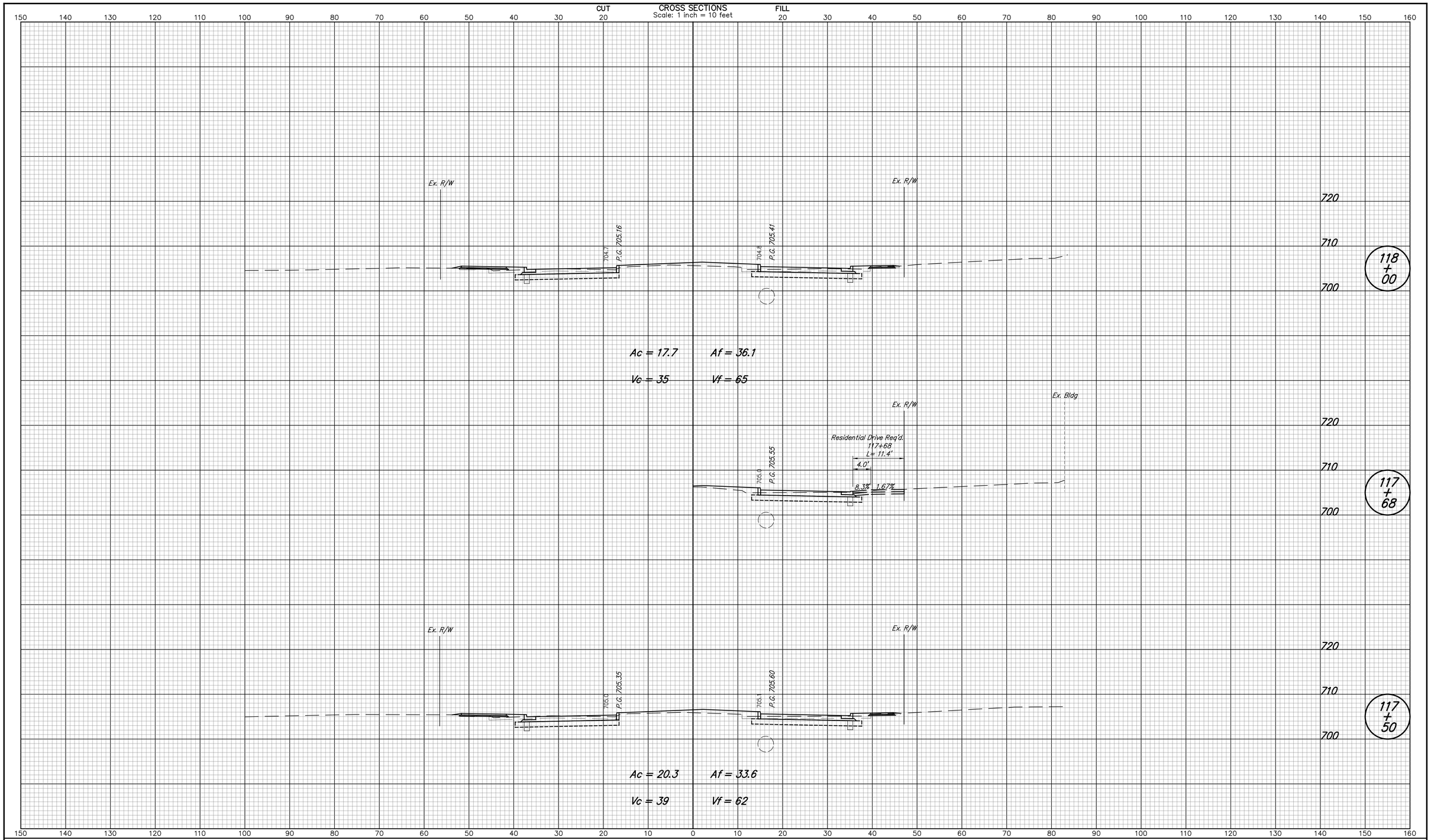


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 135 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:28 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 136 of 181 / PROJECT NO.

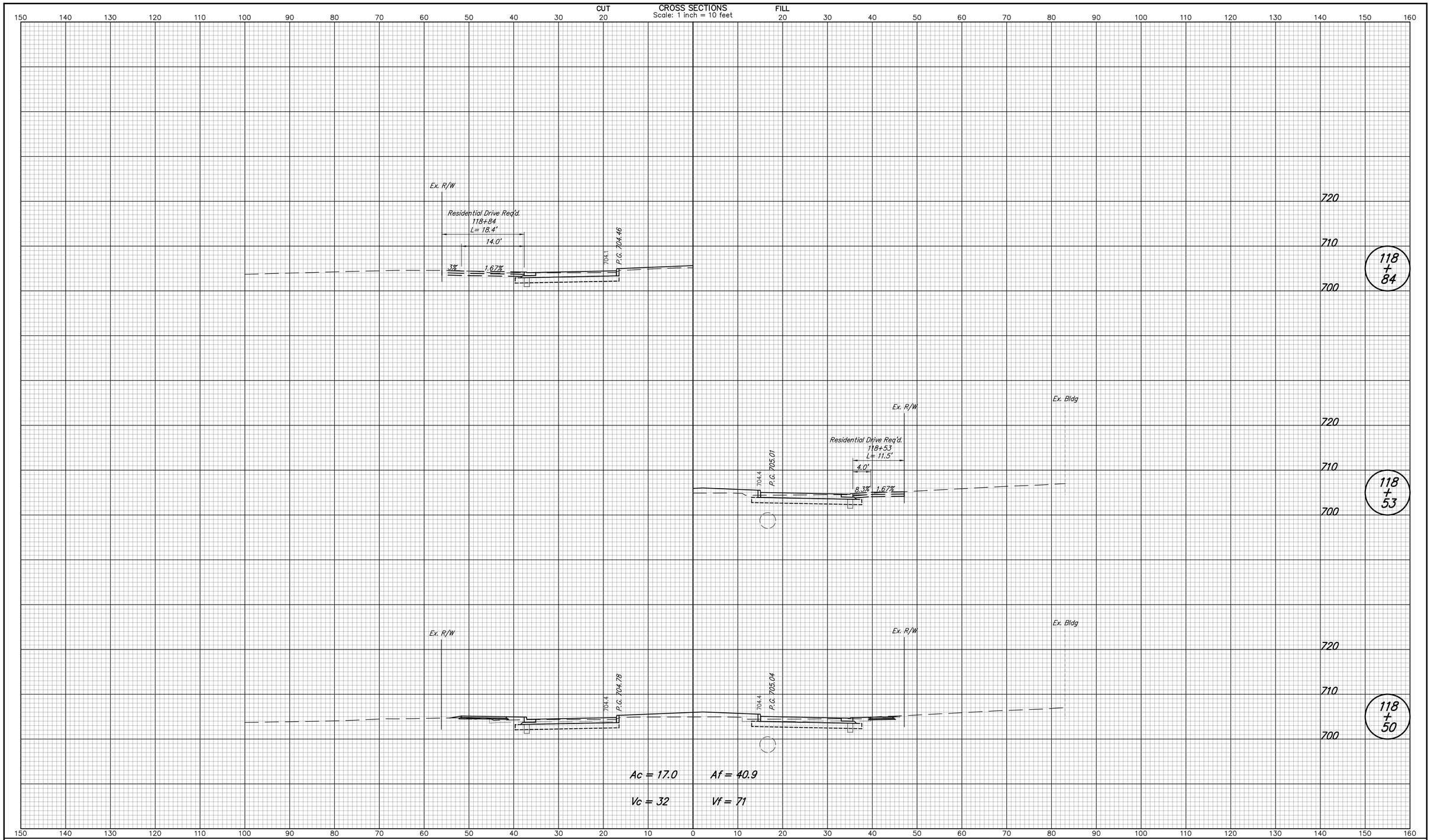


DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF
WEST LAFAYETTE

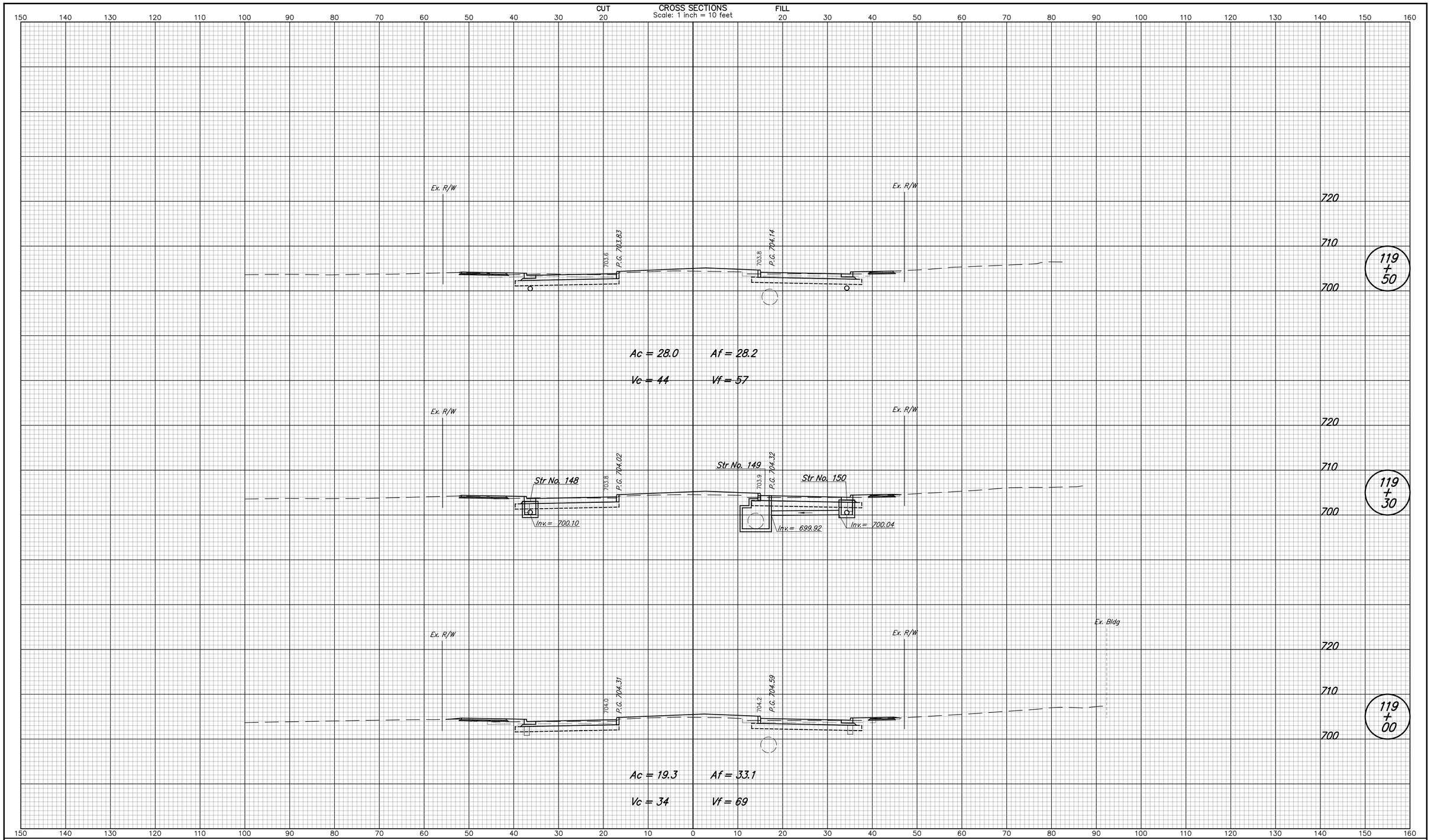
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	
1" = 10'	
VERTICAL SCALE	
1" = 10'	
SHEETS	
137 of 181	
PROJECT NO.	



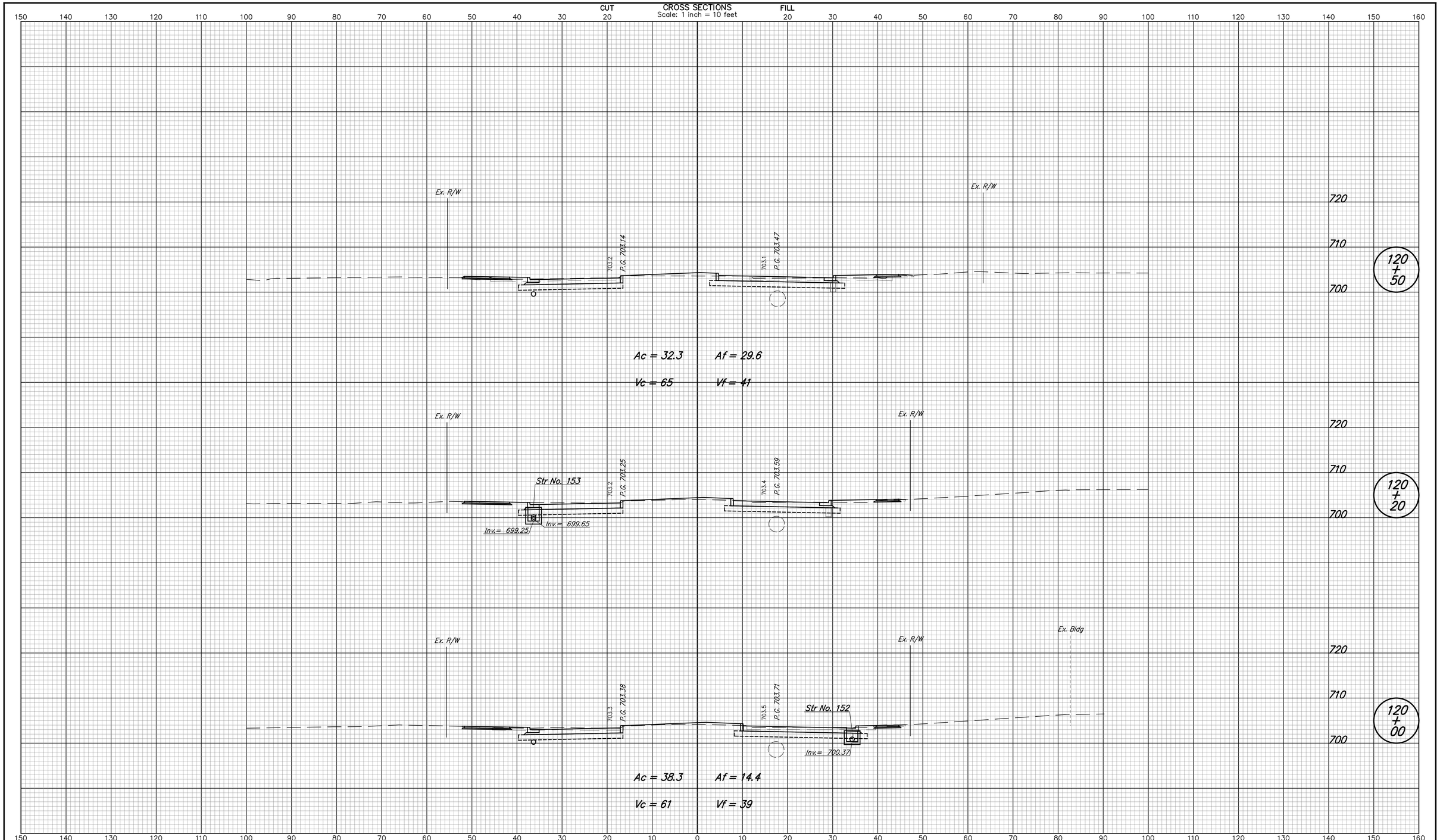
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 138 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:33 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



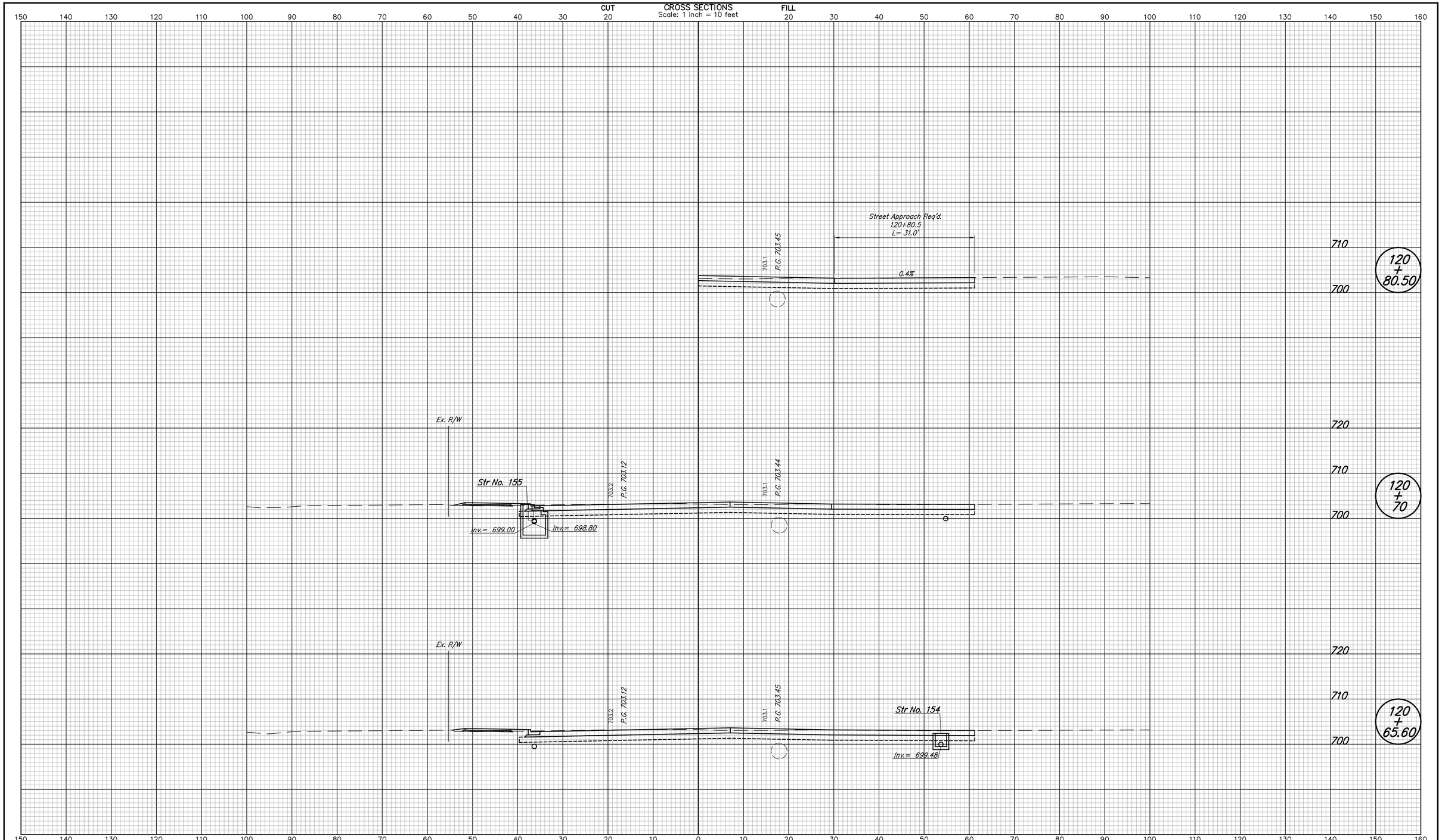
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 139 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:35 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



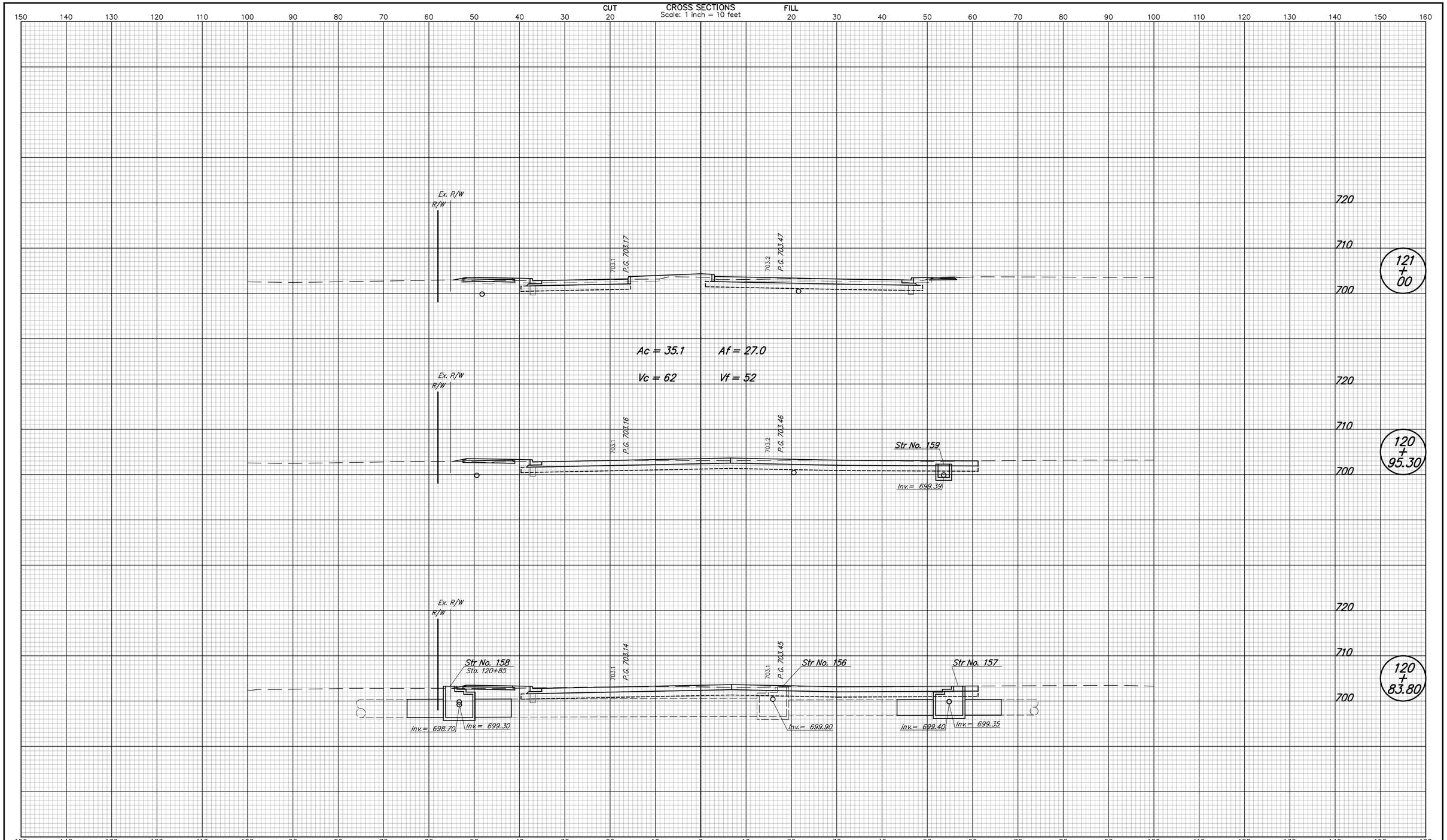
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 140 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:37 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



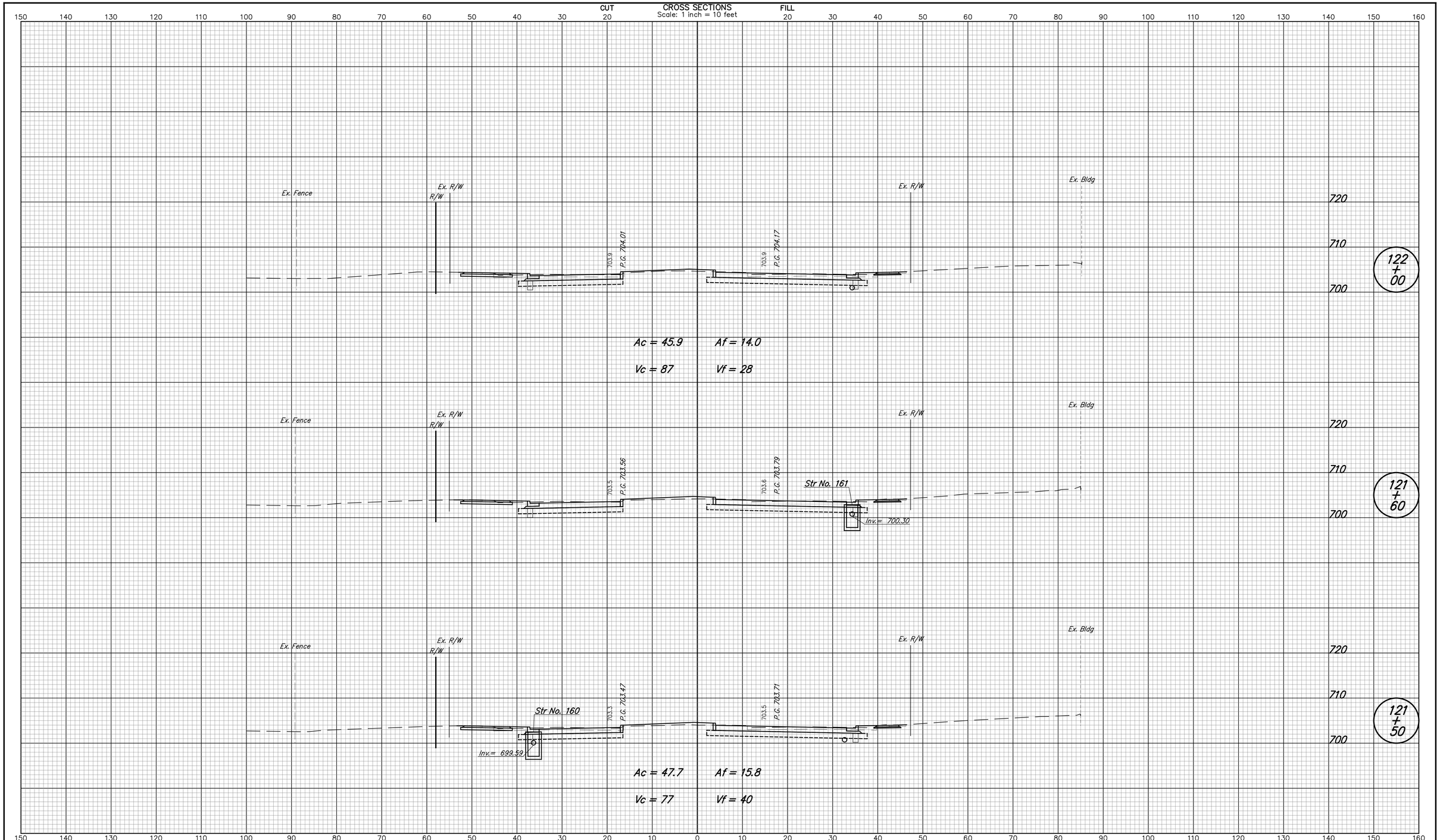
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 141 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:39 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn

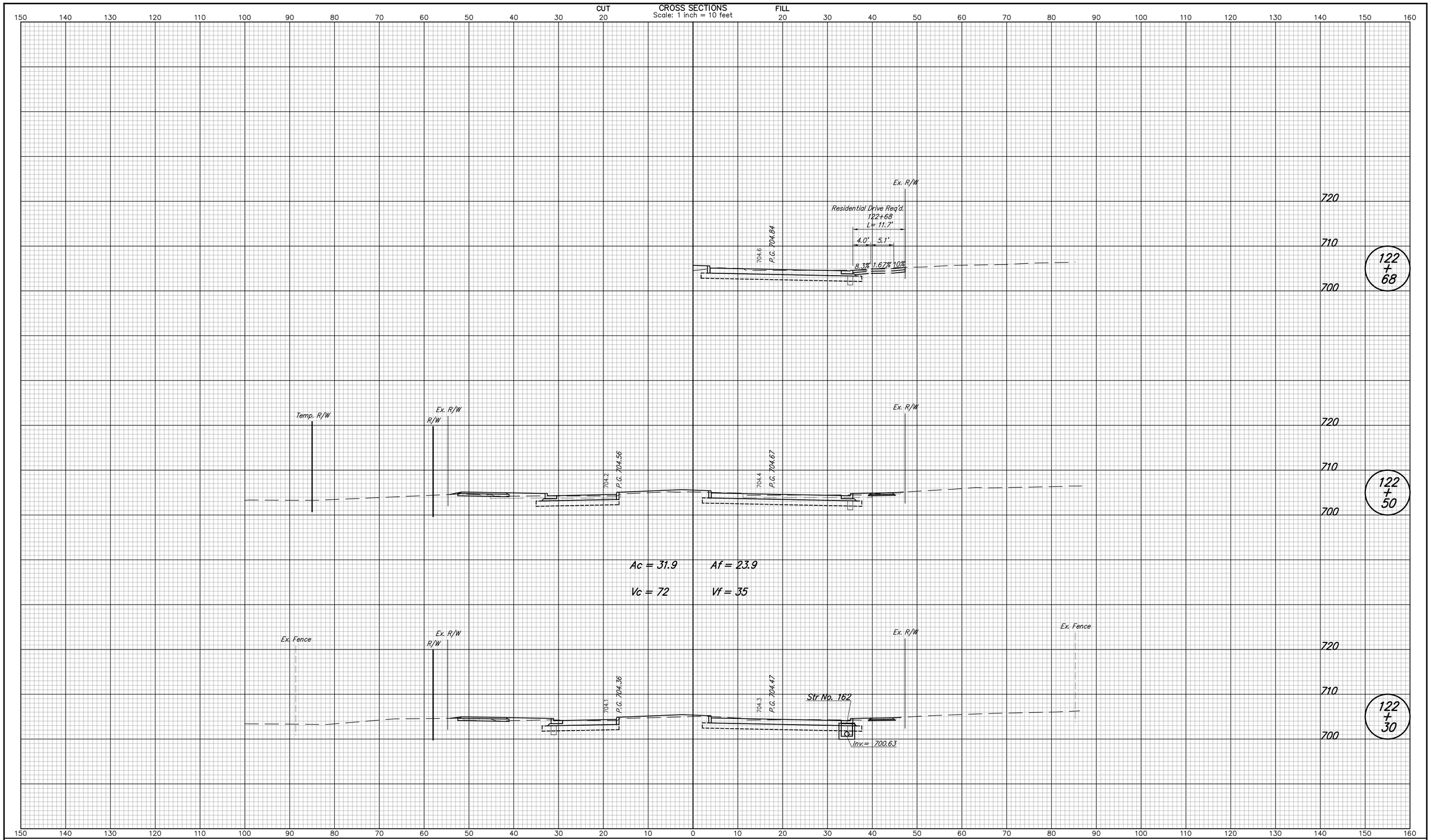


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
			VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 142 of 181
			PROJECT NO.

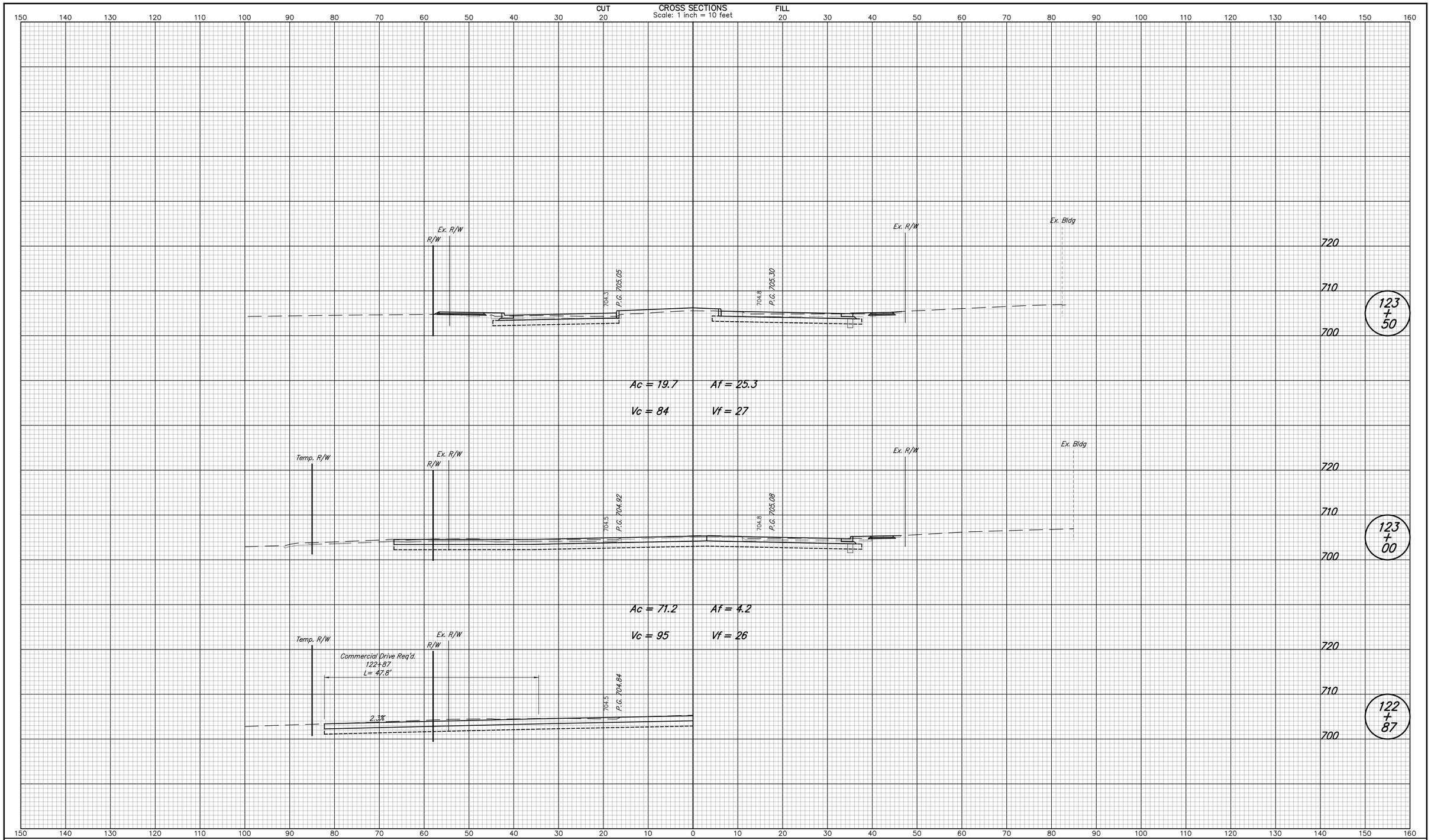
nmurphy 5/8/2014 10:26:41 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 143 of 181
			PROJECT NO.

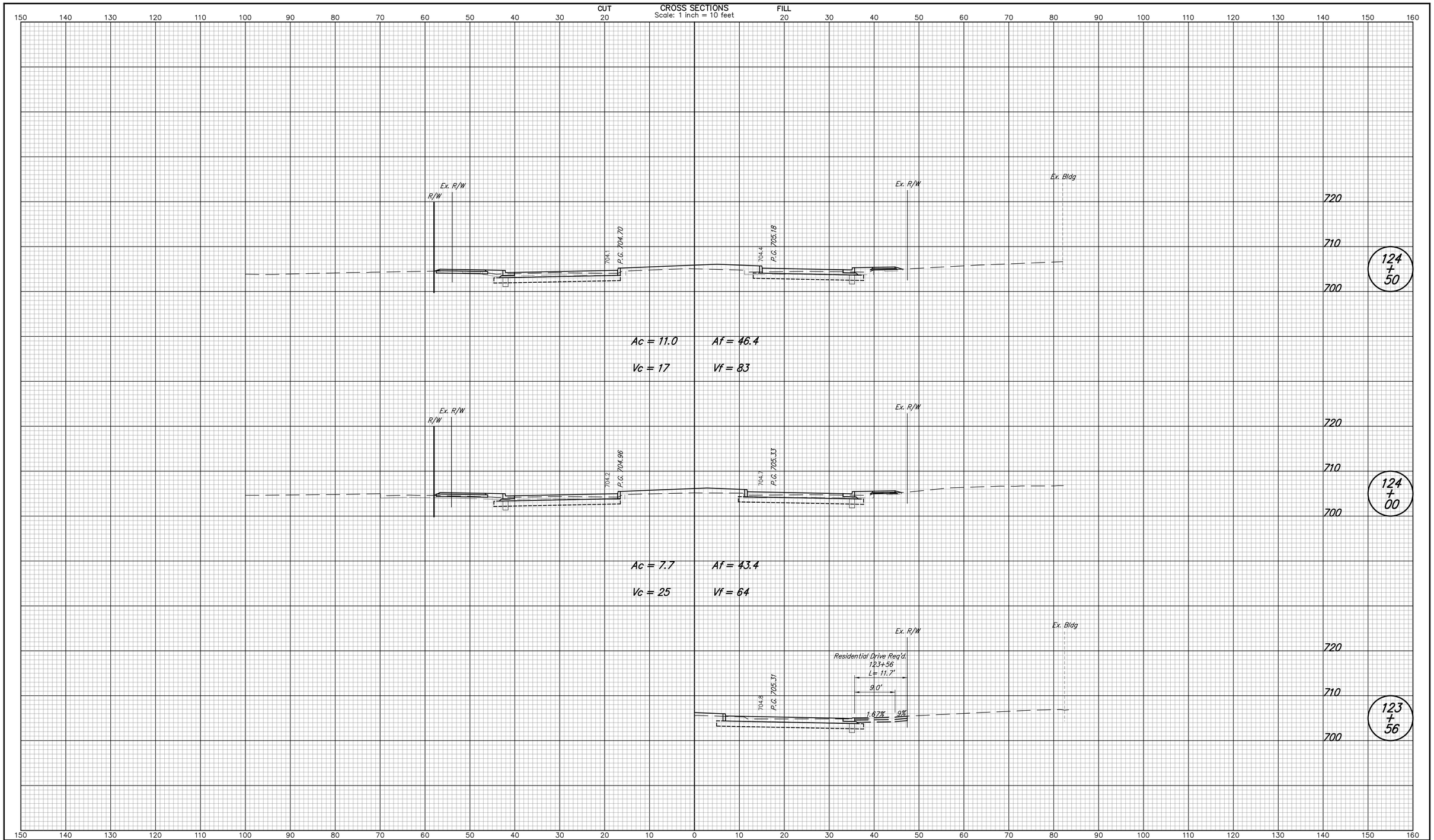


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 144 of 181 / PROJECT NO.



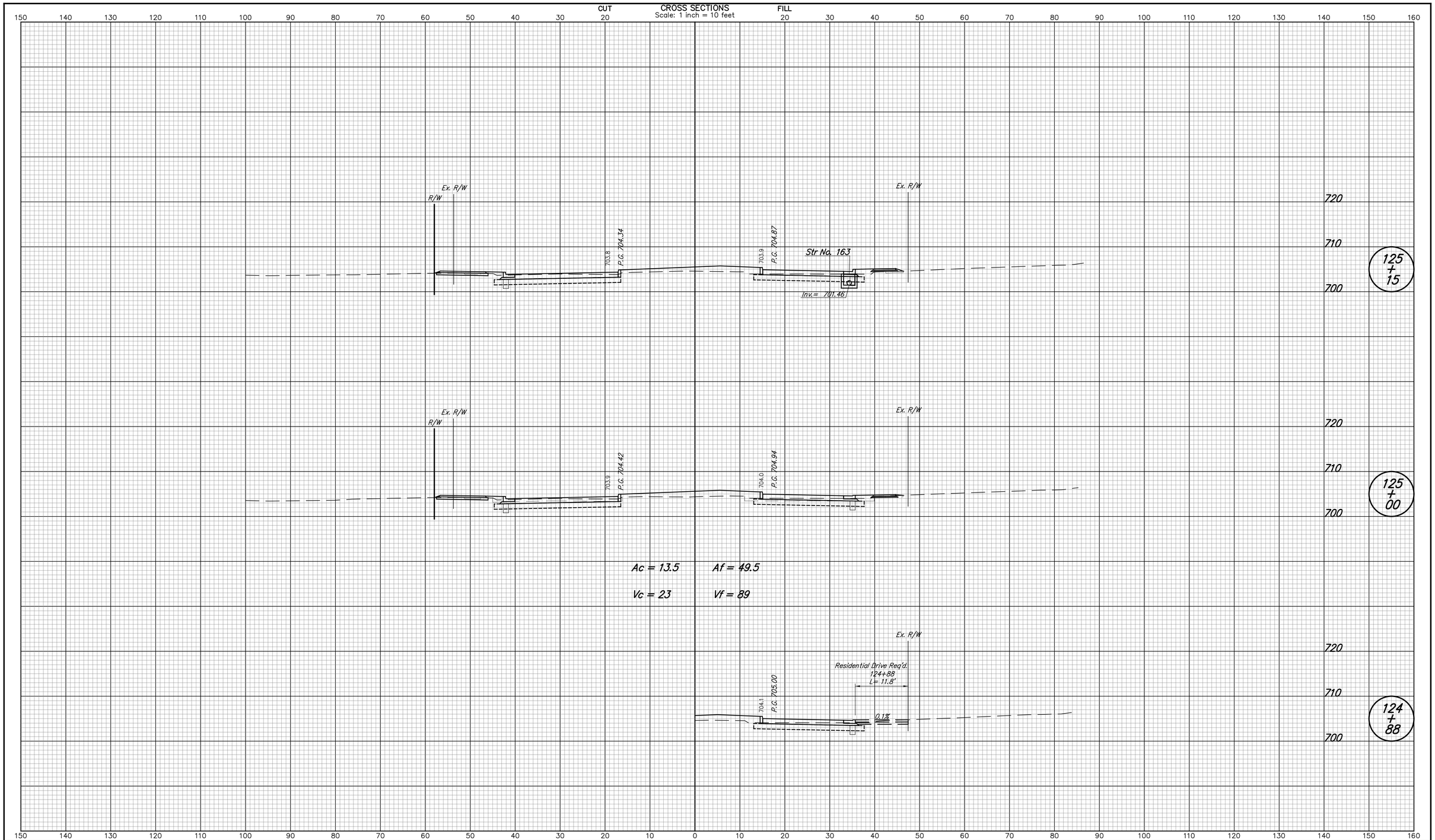
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 145 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:46 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



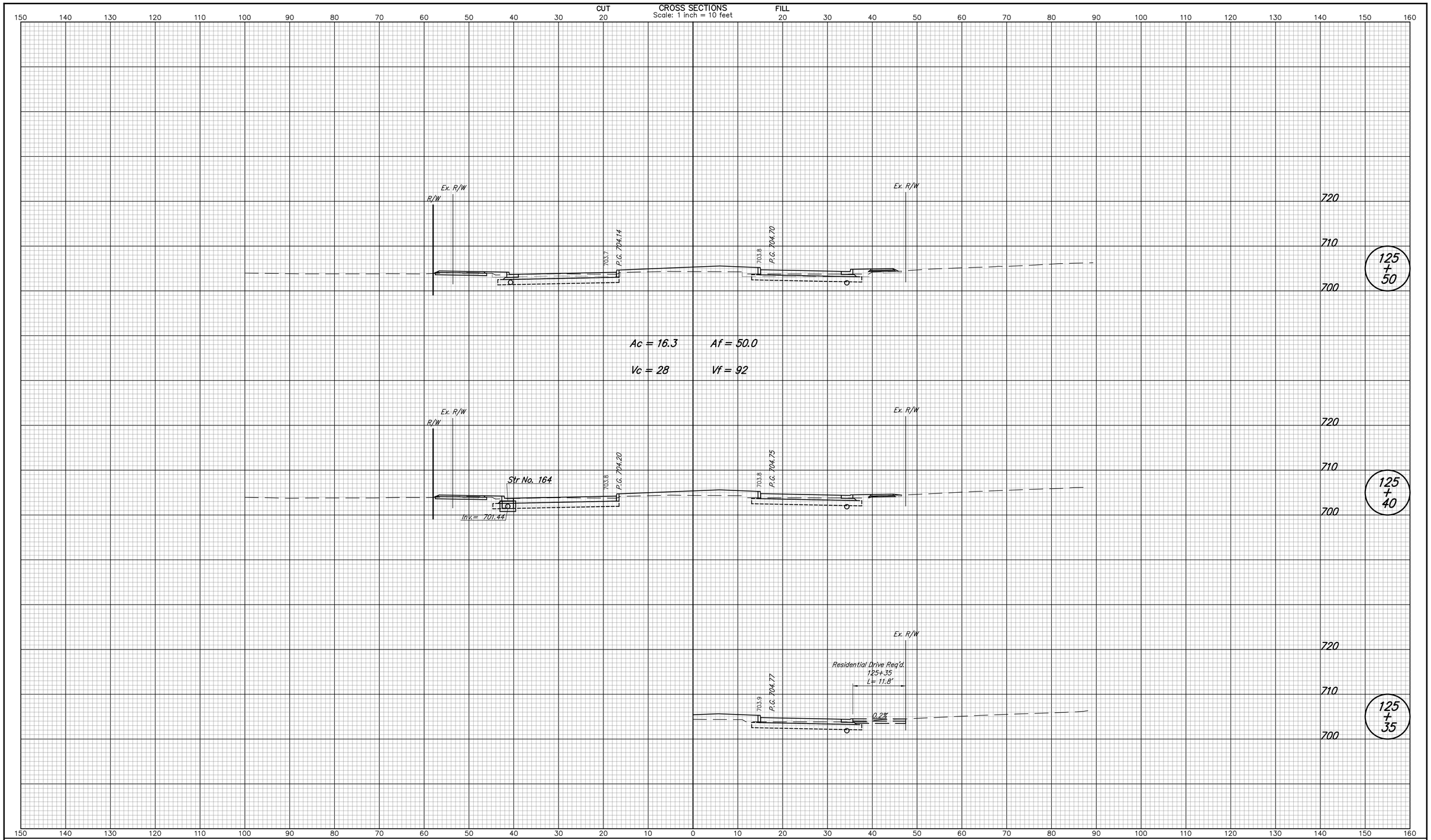
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 146 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:48 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



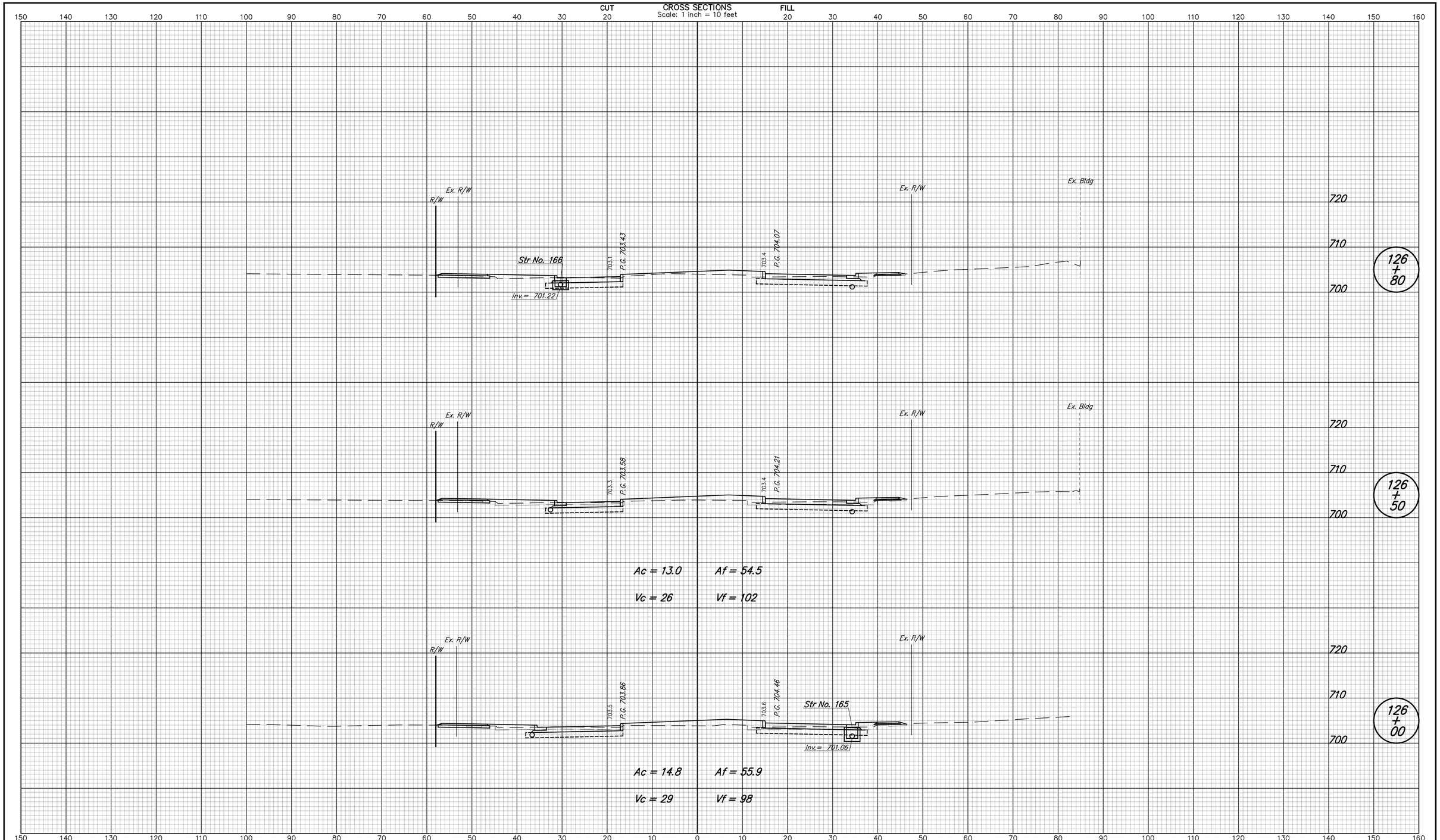
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 147 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:50 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



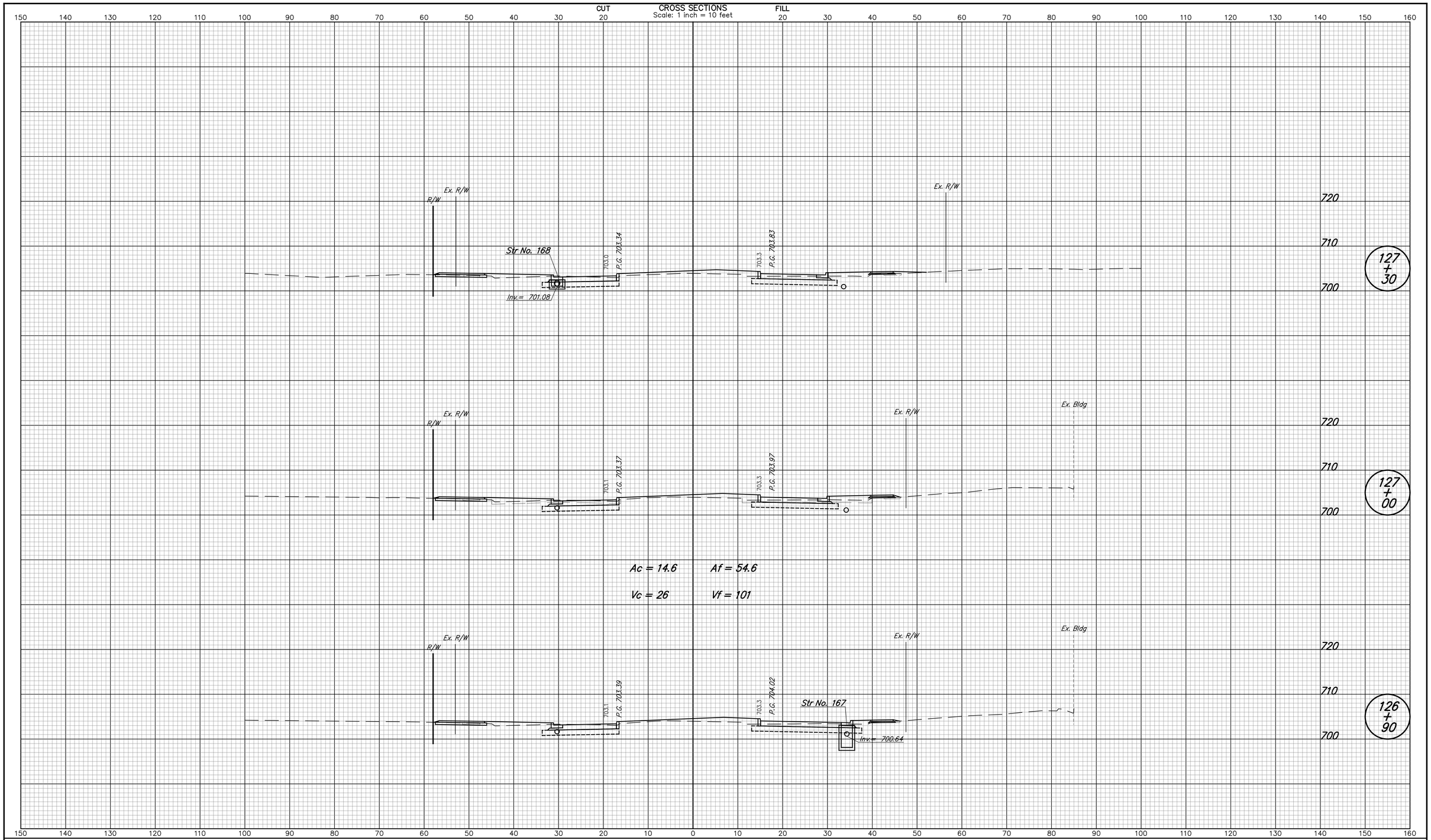
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 148 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:26:52 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 149 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:54 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



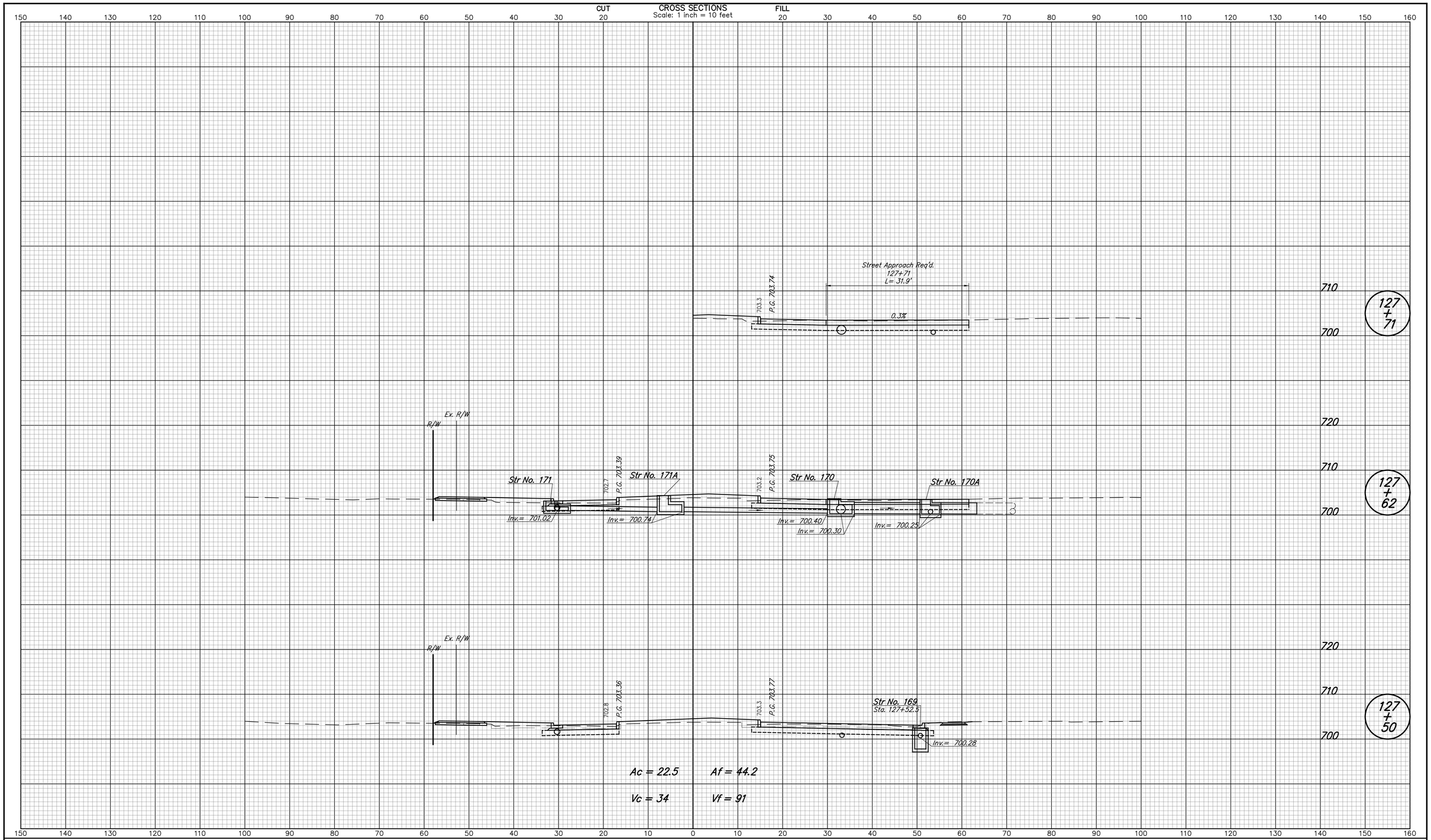
DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF
WEST LAFAYETTE

CROSS SECTIONS
LINE "PR-A"

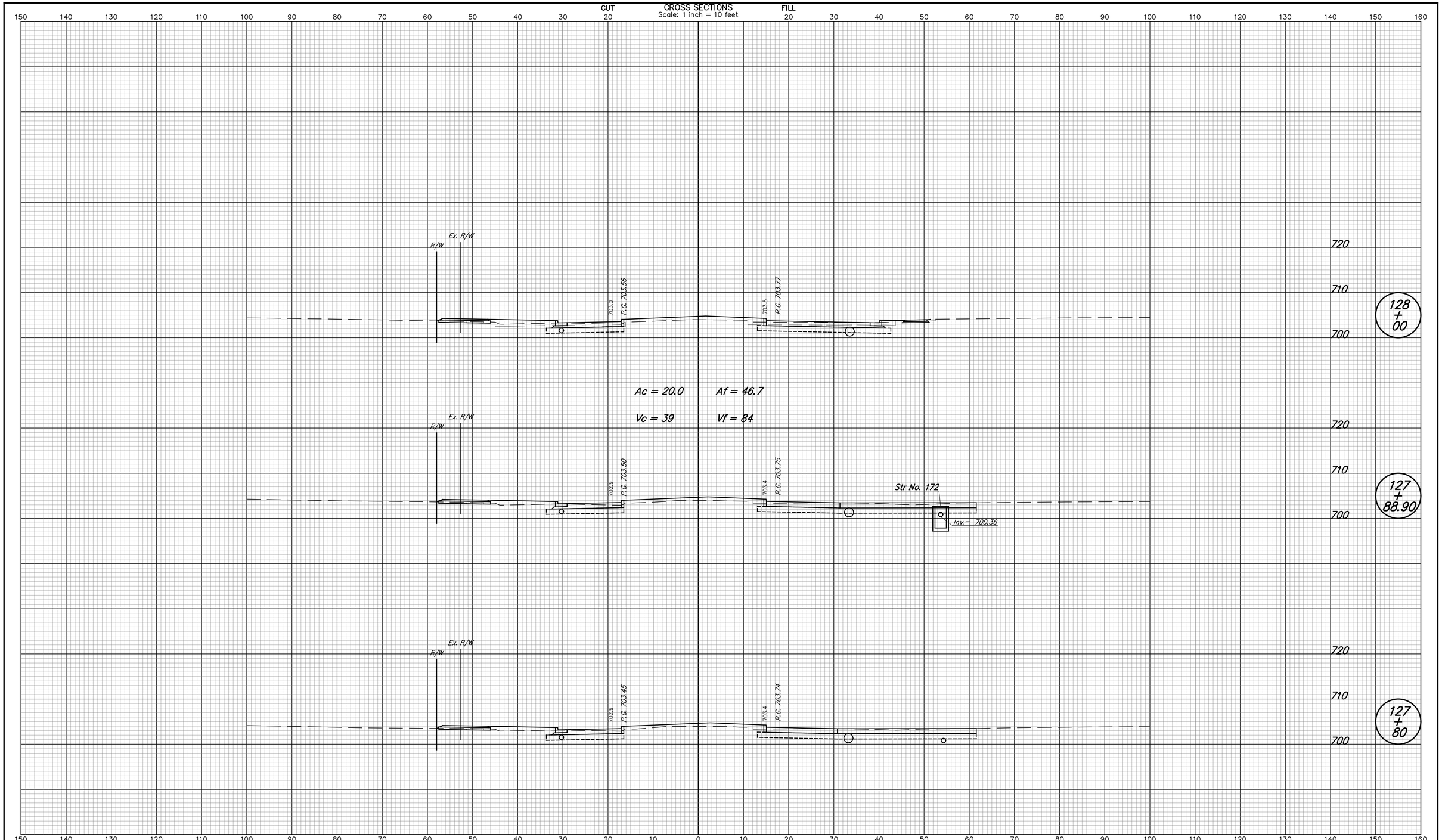
HORIZONTAL SCALE	
1" = 10'	
VERTICAL SCALE	
1" = 10'	
SHEETS	
150 of 181	
PROJECT NO.	

nmurphy 5/8/2014 10:26:56 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



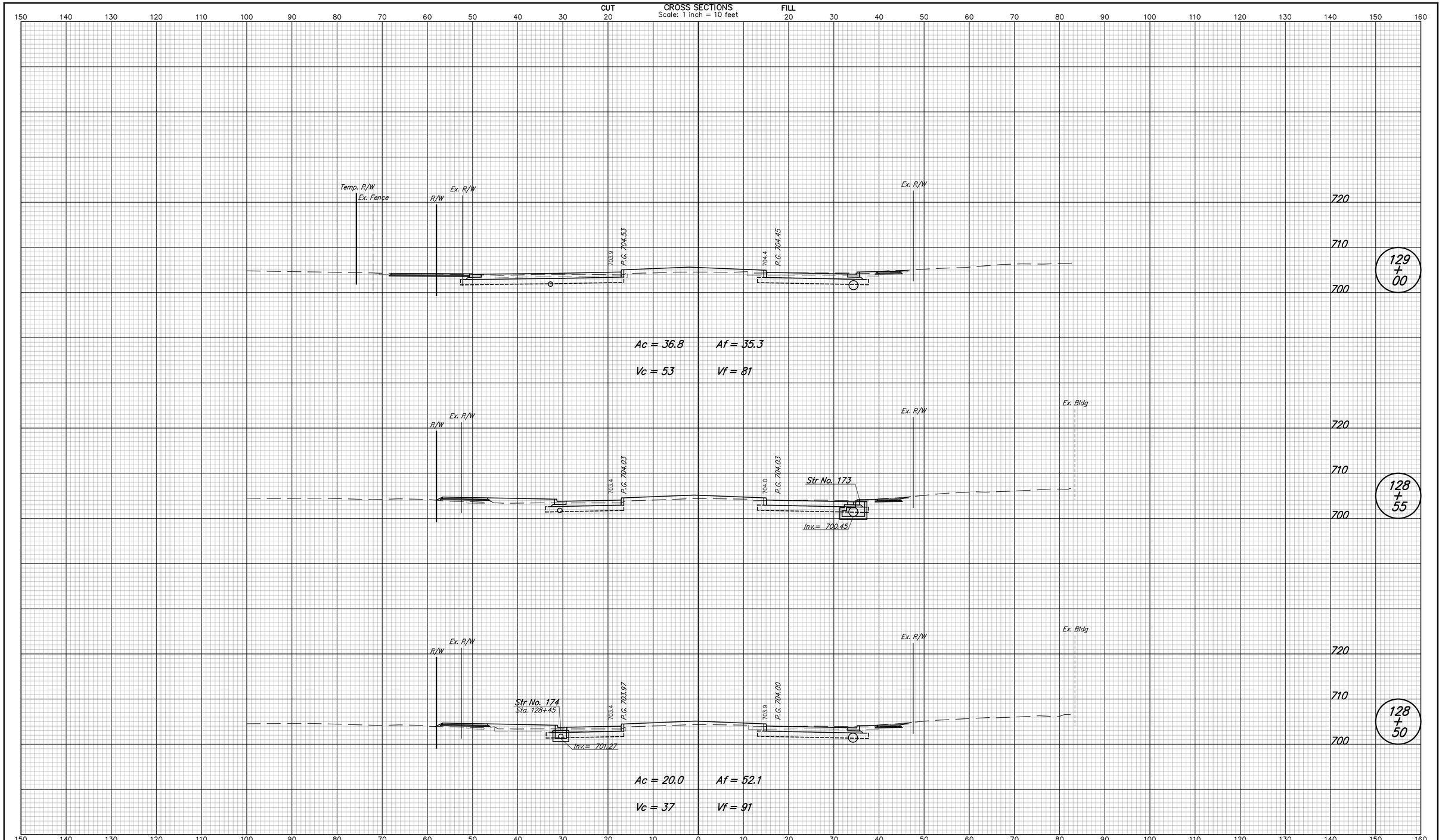
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 151 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:26:58 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



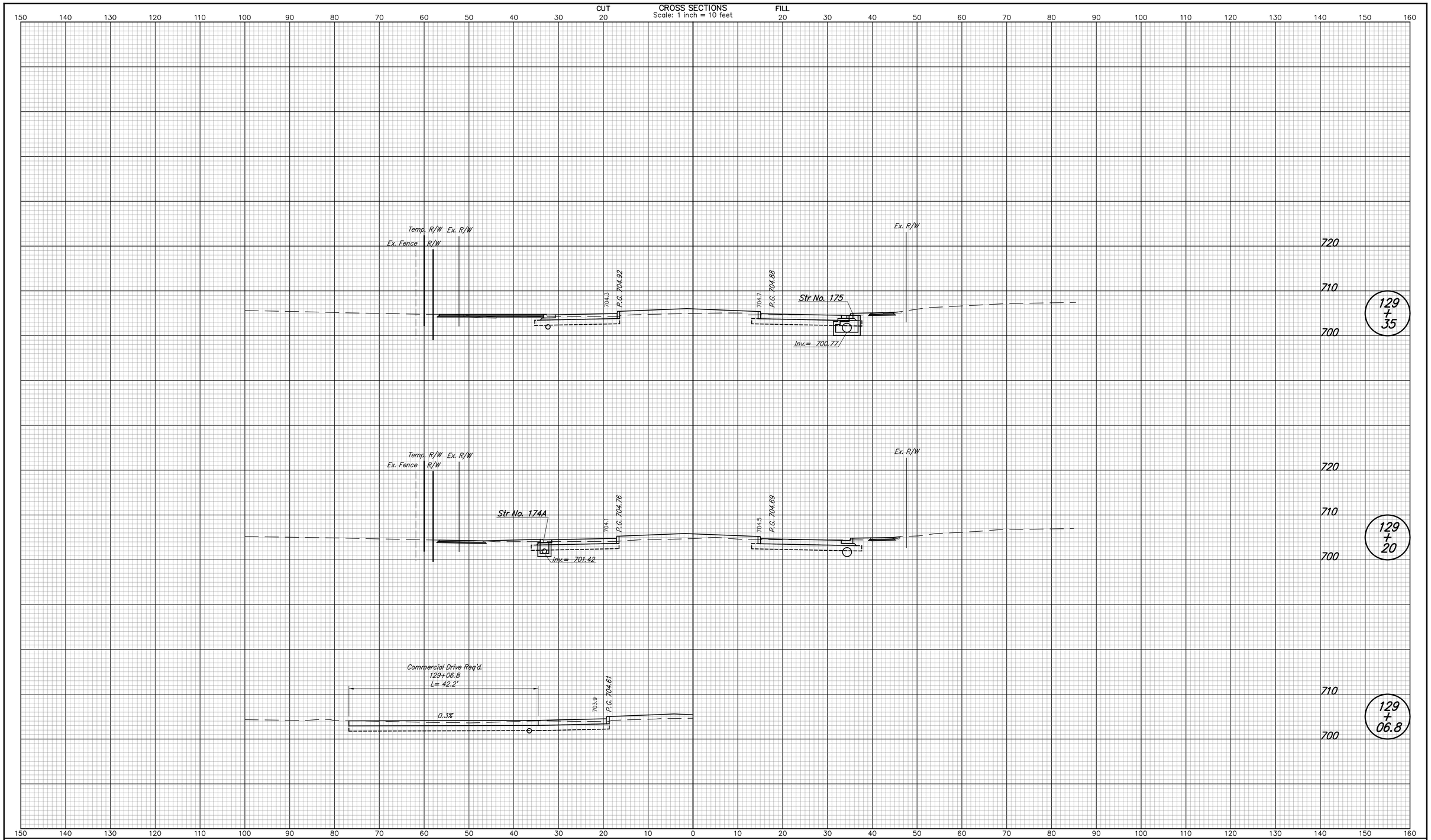
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 152 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:00 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



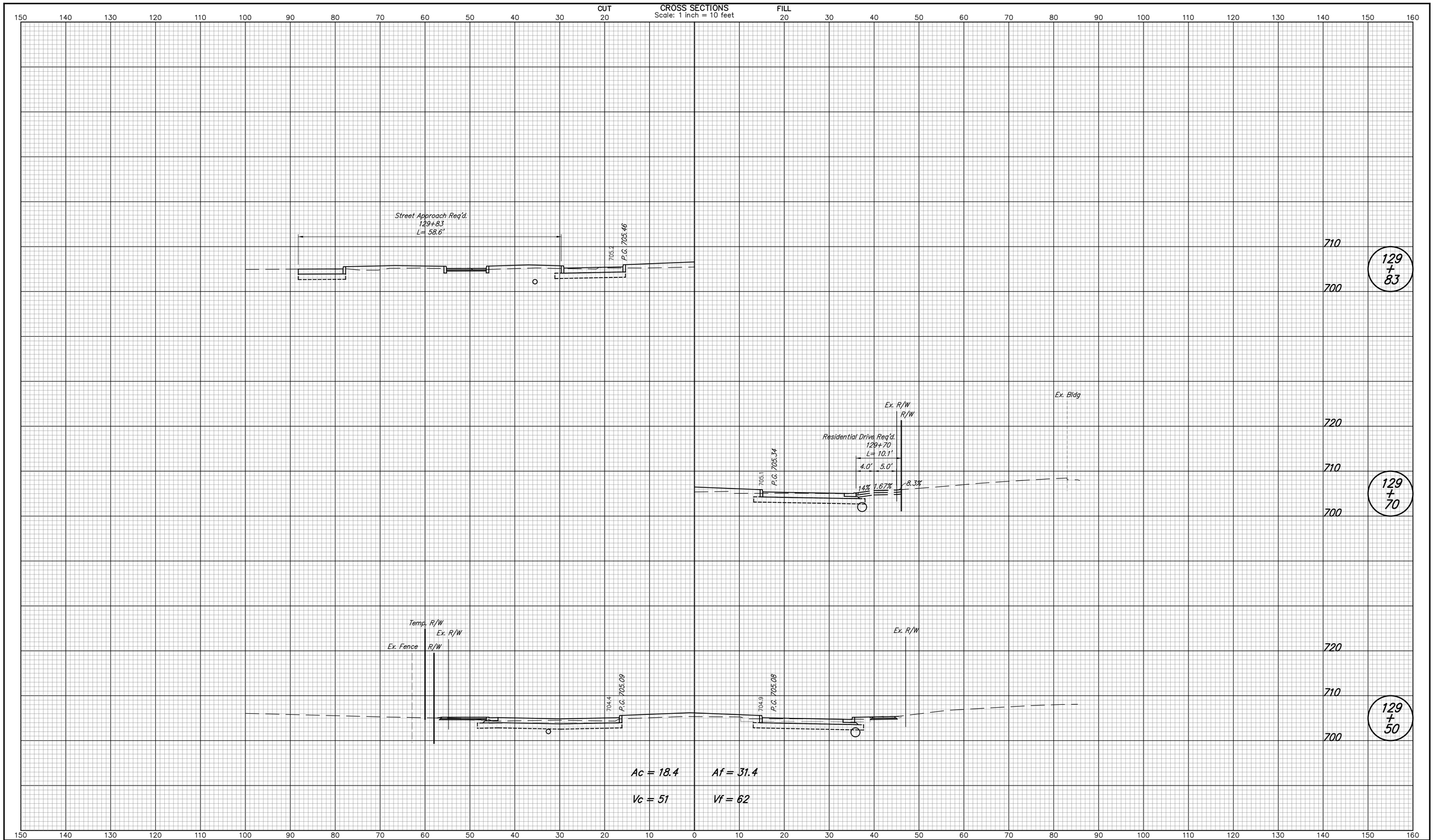
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 153 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:02 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



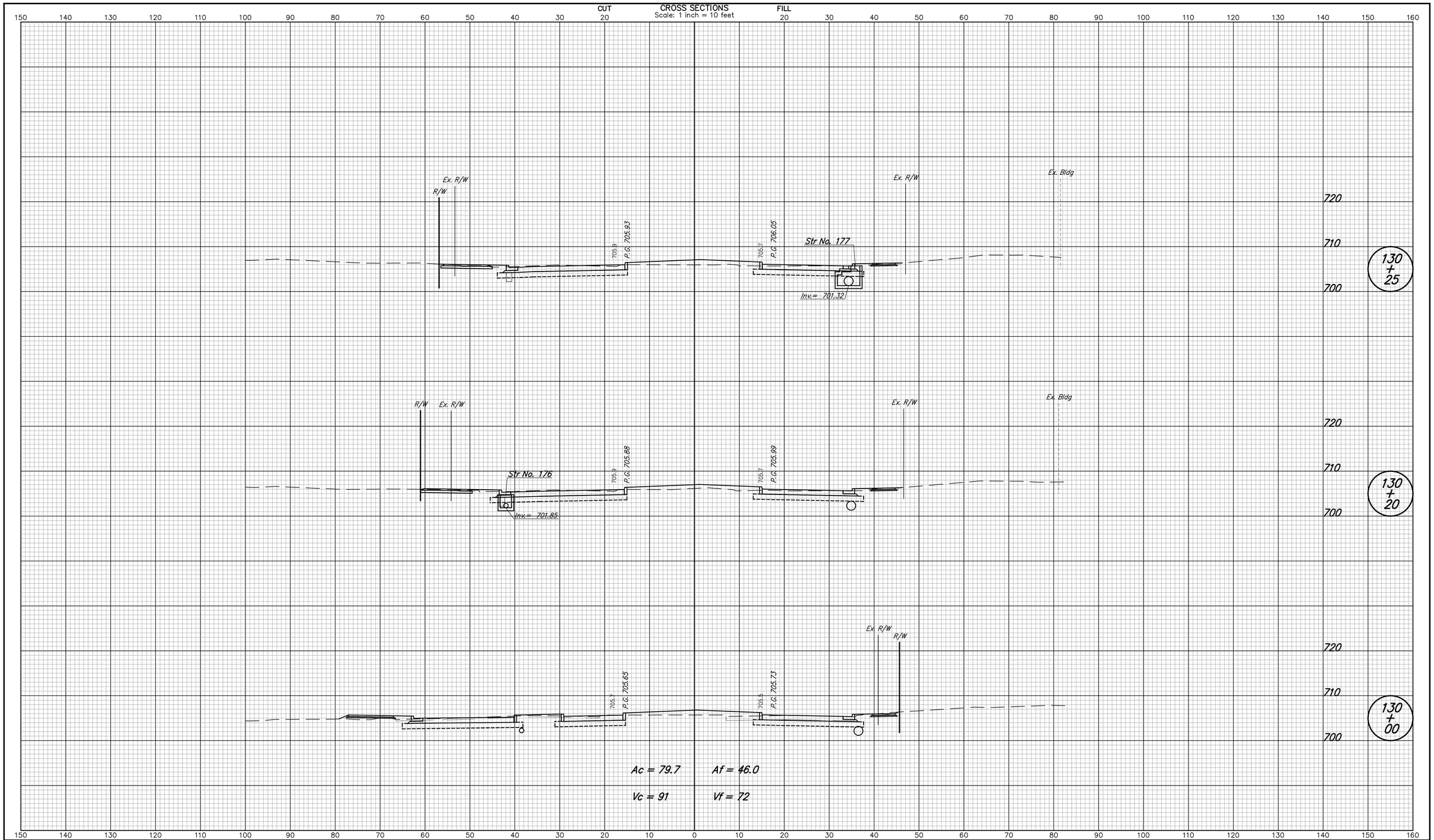
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 154 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:03 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

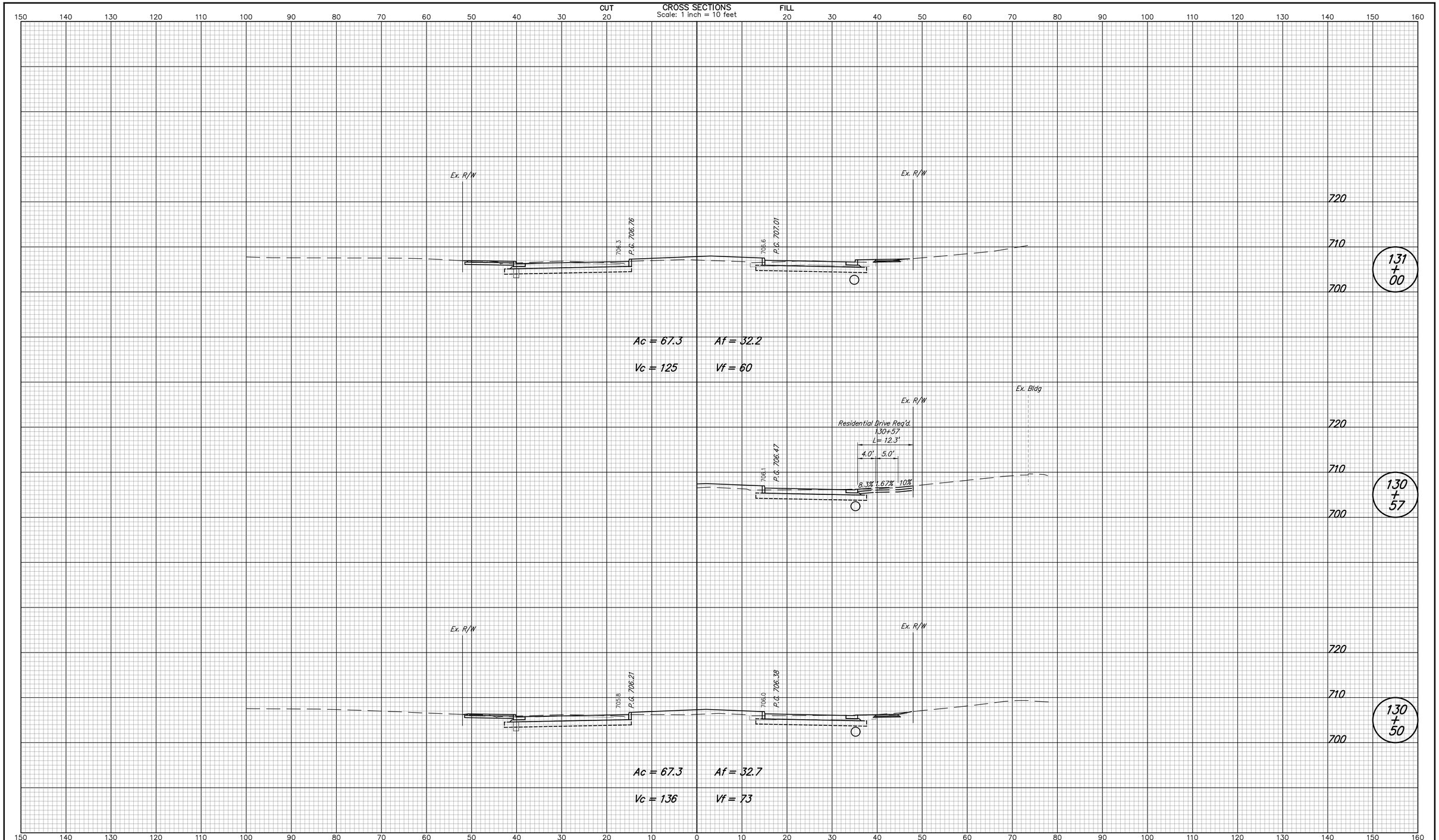


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 155 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:05 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

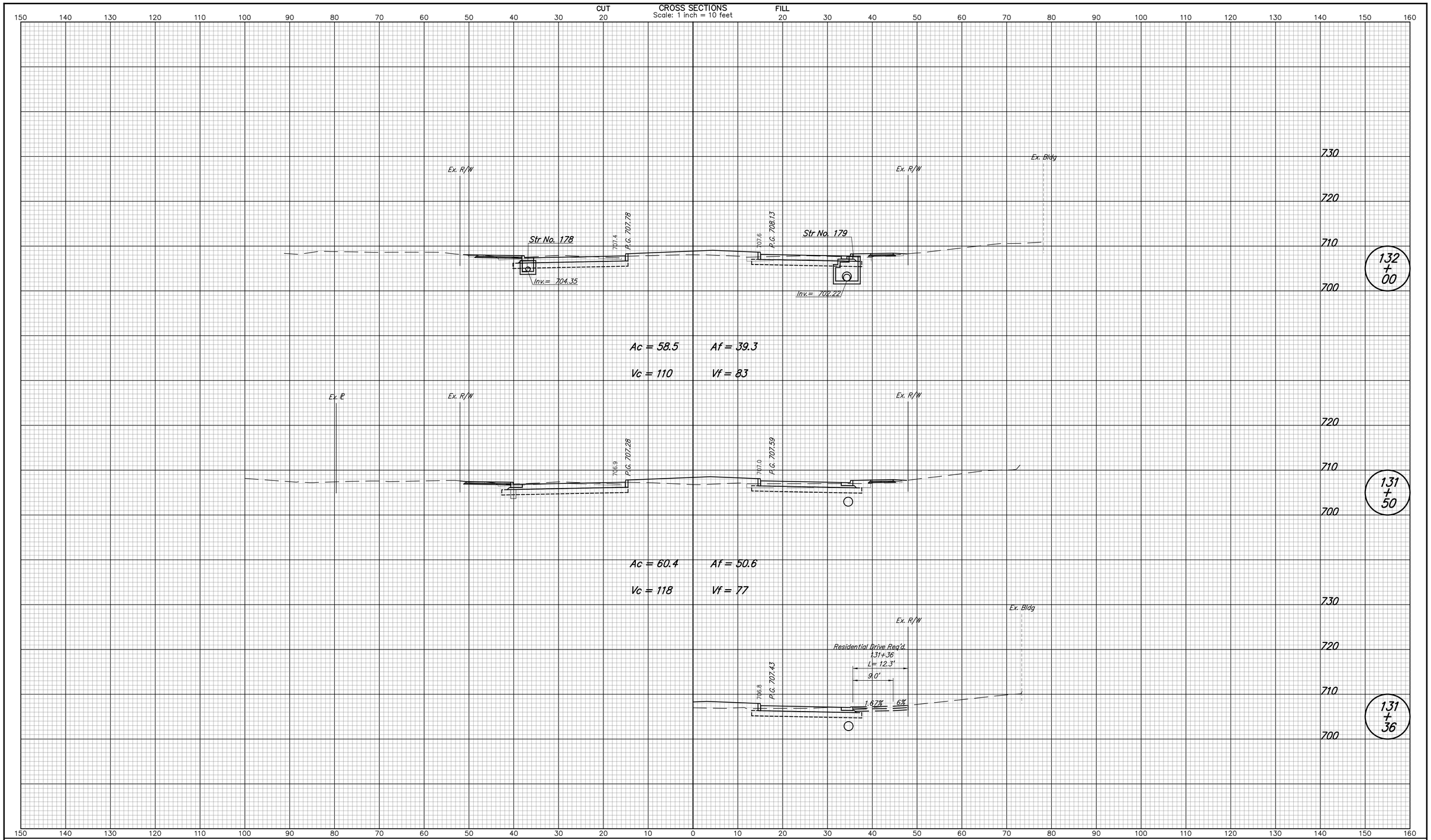


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 156 of 181 / PROJECT NO.



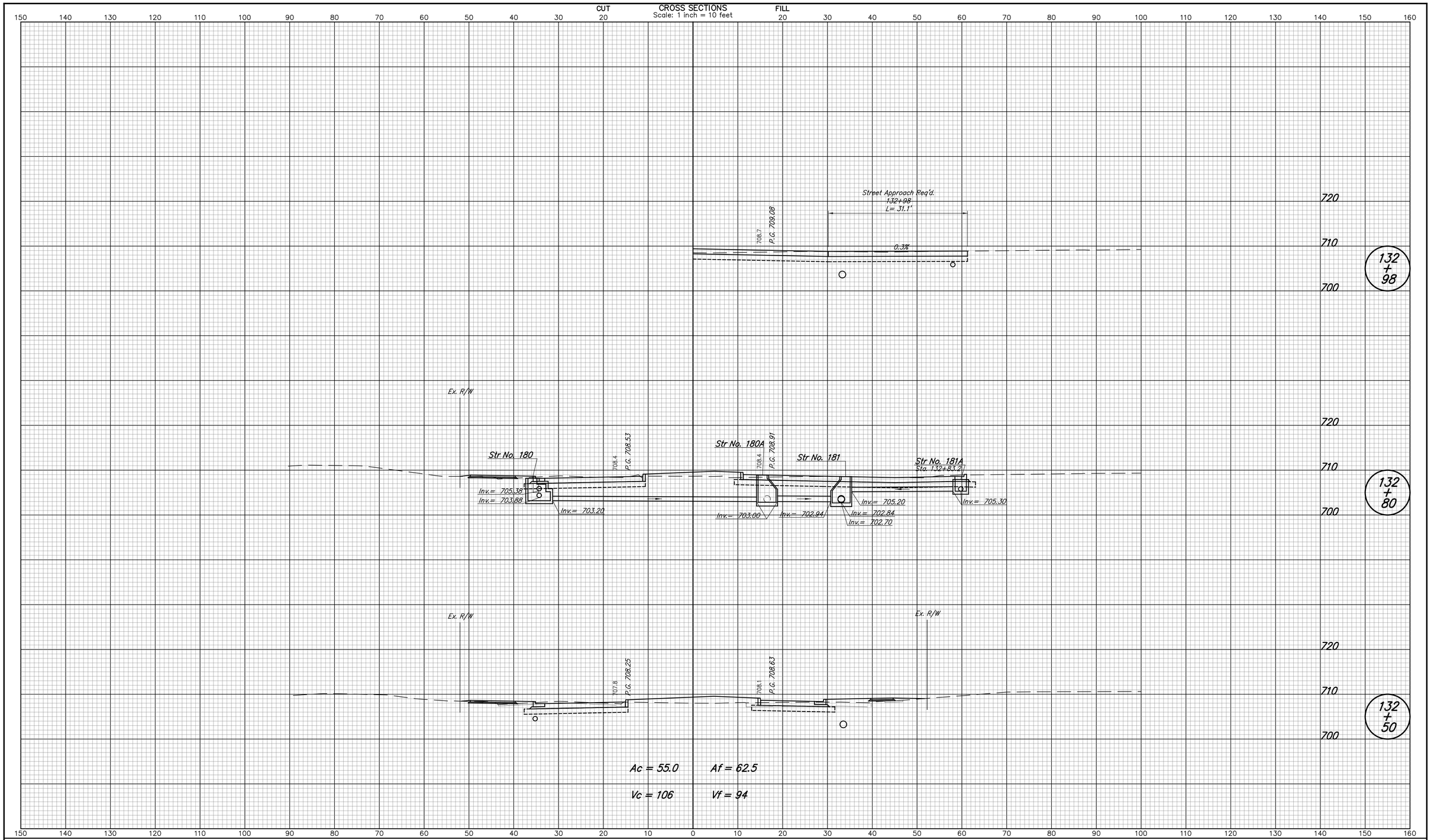
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 157 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:09 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



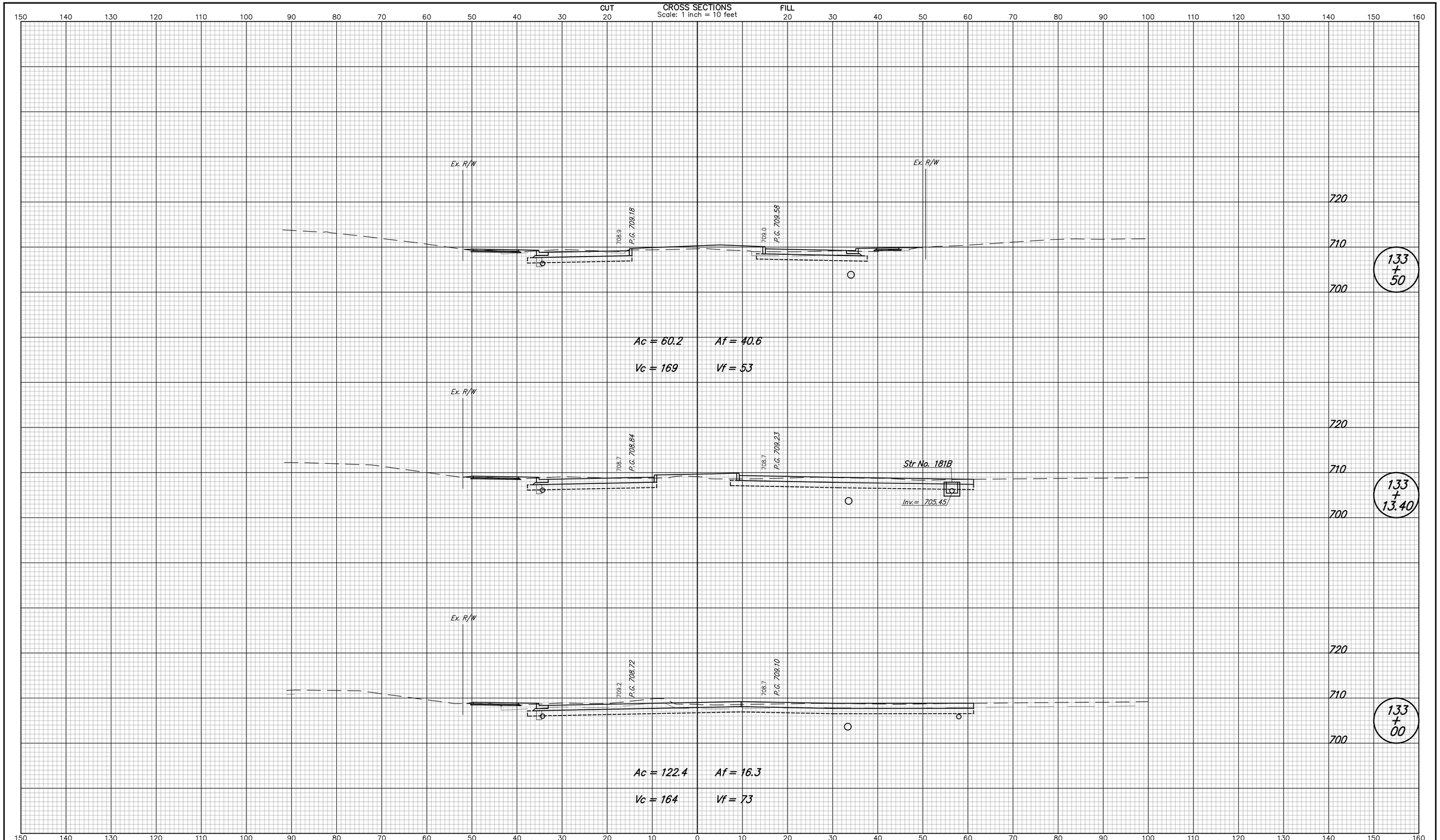
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 158 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:11 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

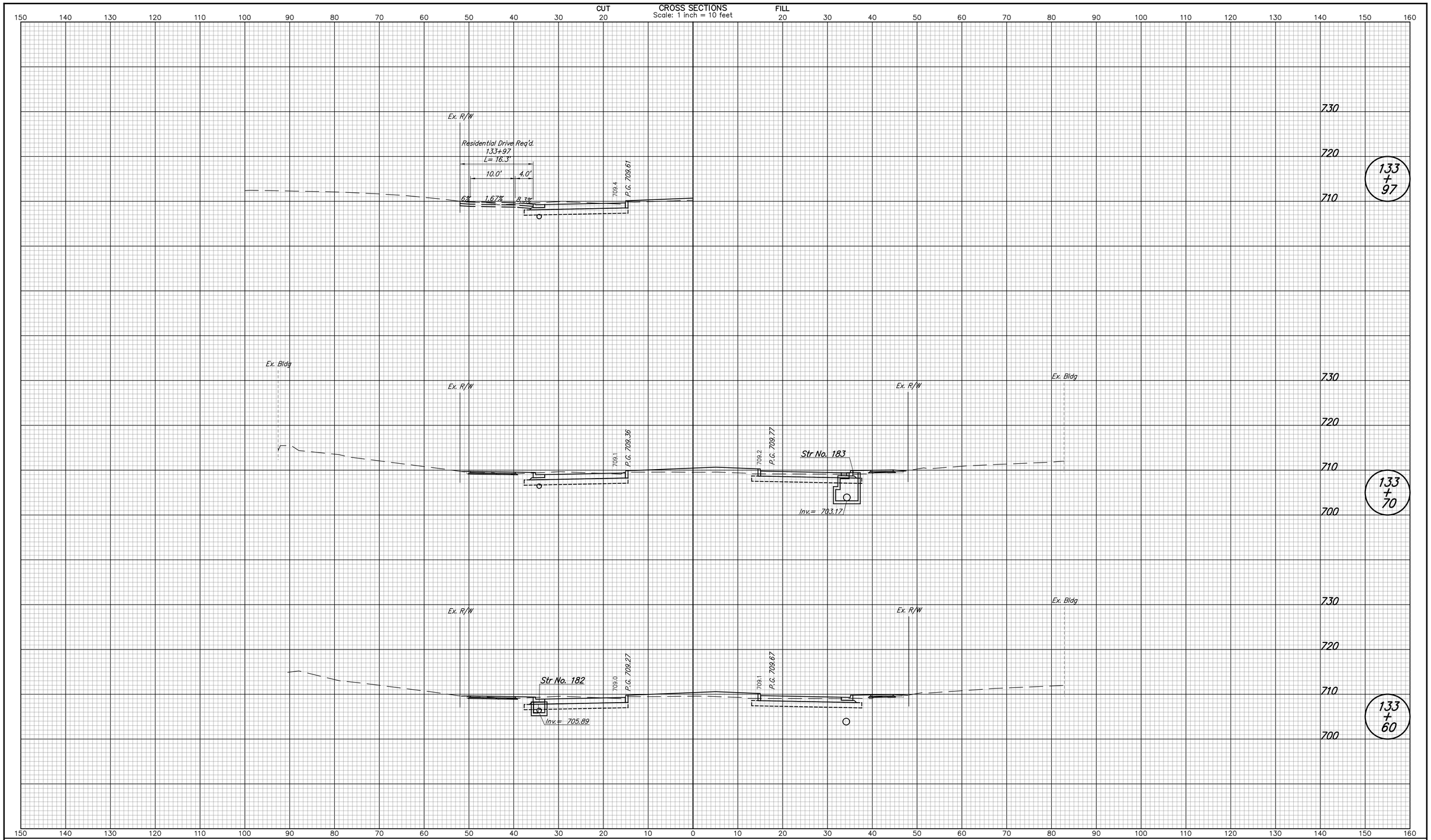


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 159 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:13 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

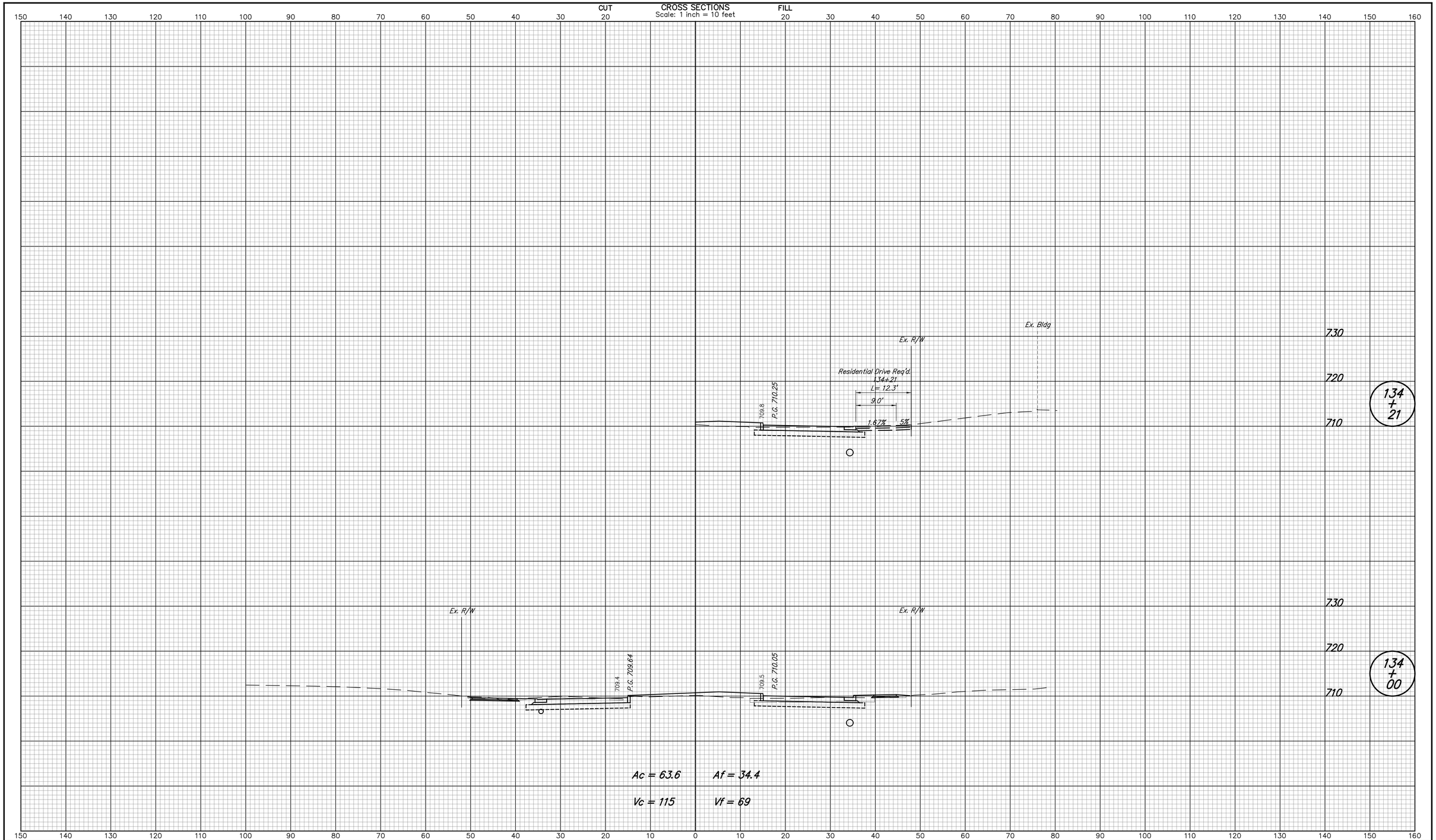


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 160 of 181 / PROJECT NO.



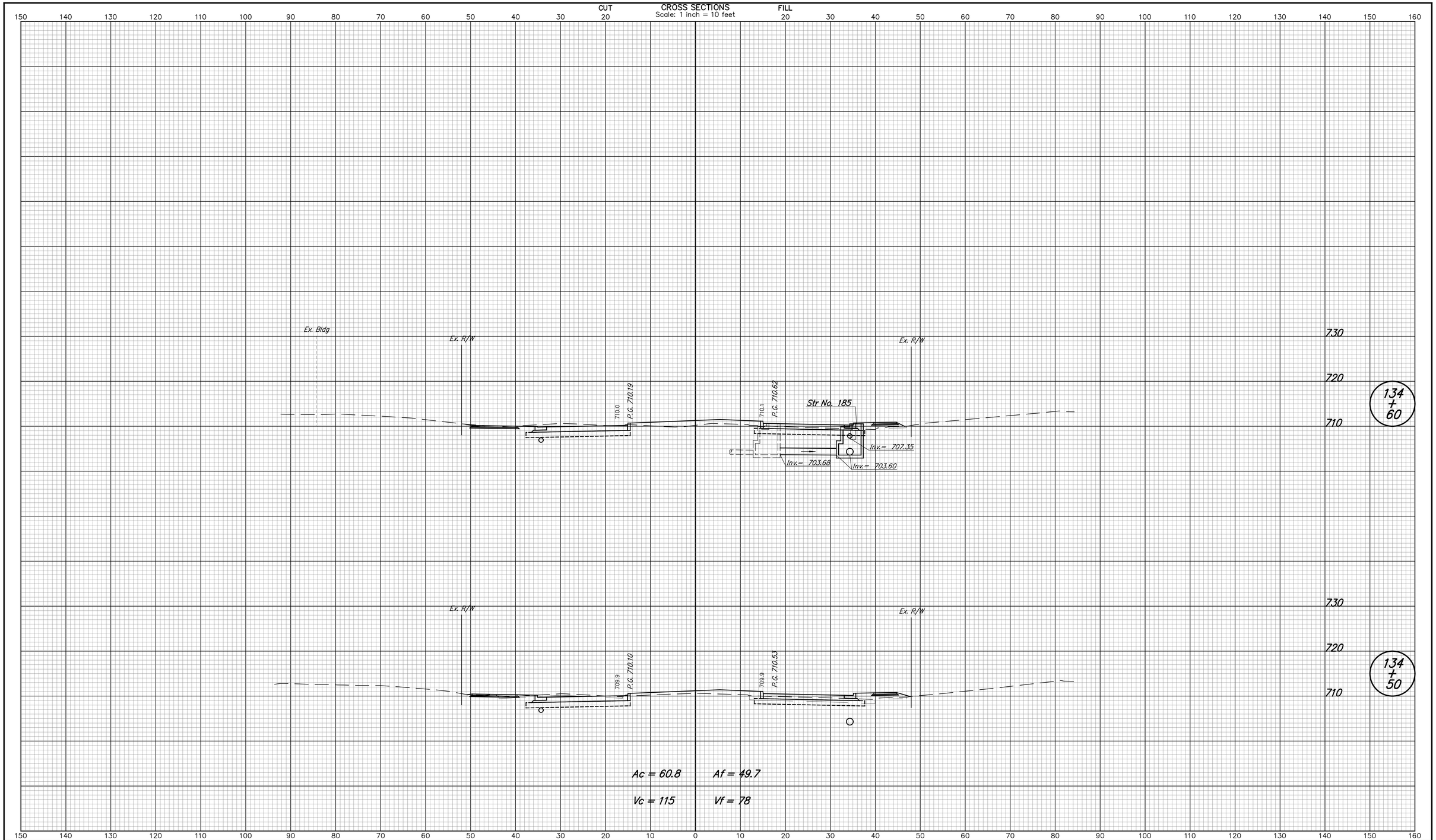
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 161 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:17 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



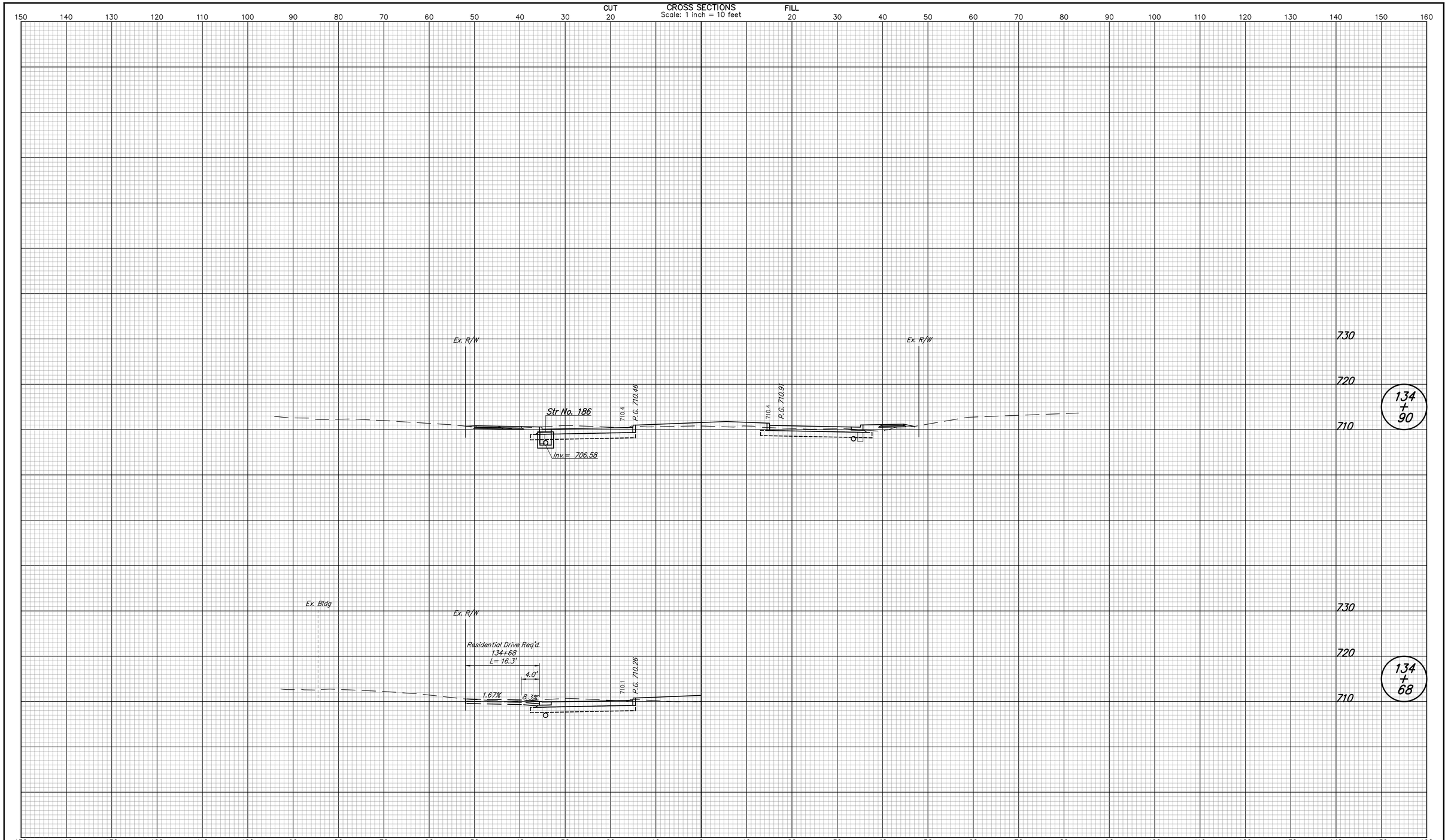
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 162 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:18 AM P:\2013\00985\D. Drawings\201300985.RD.CS.PR-A.01.dgn



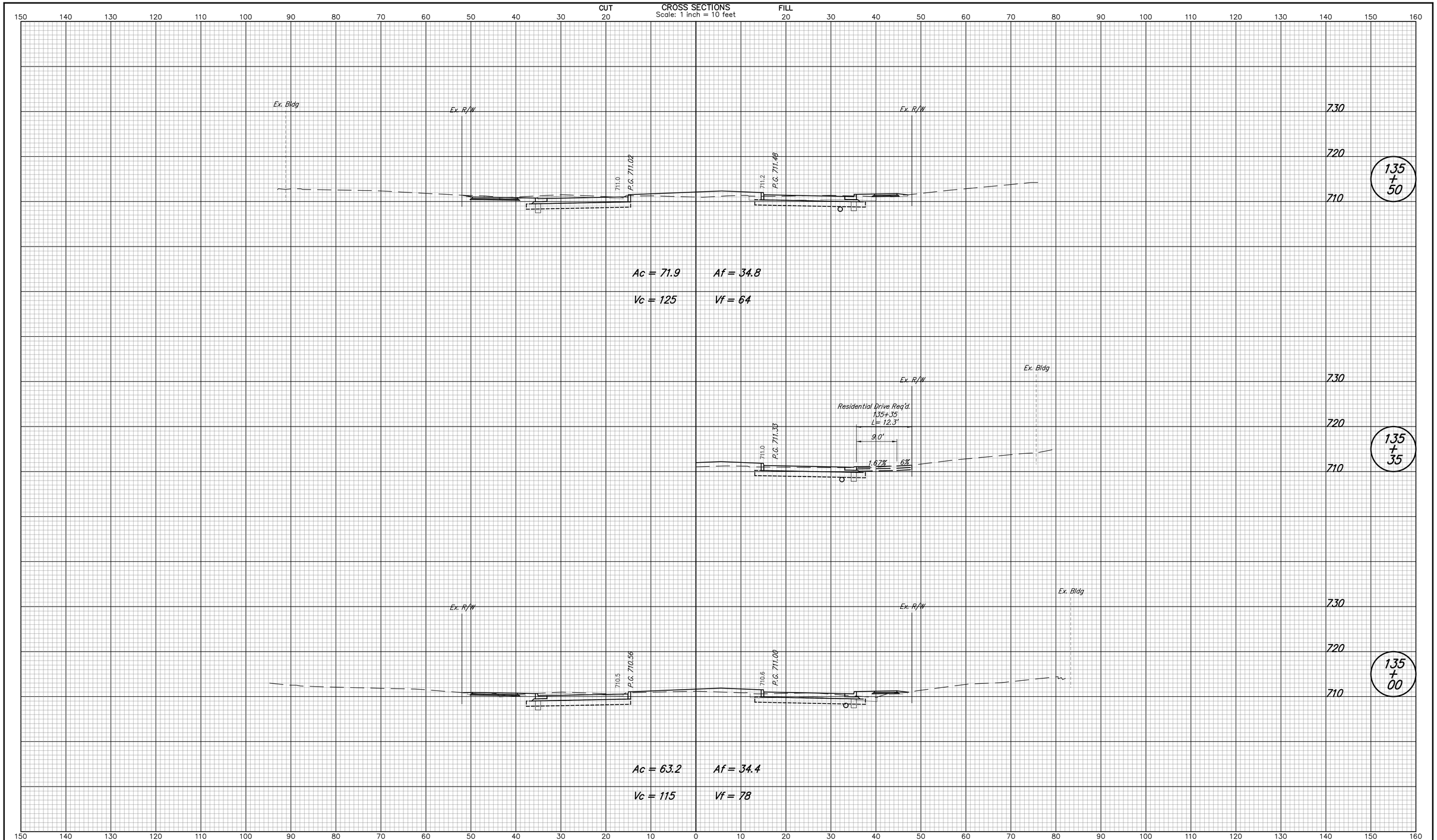
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 163 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:20 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



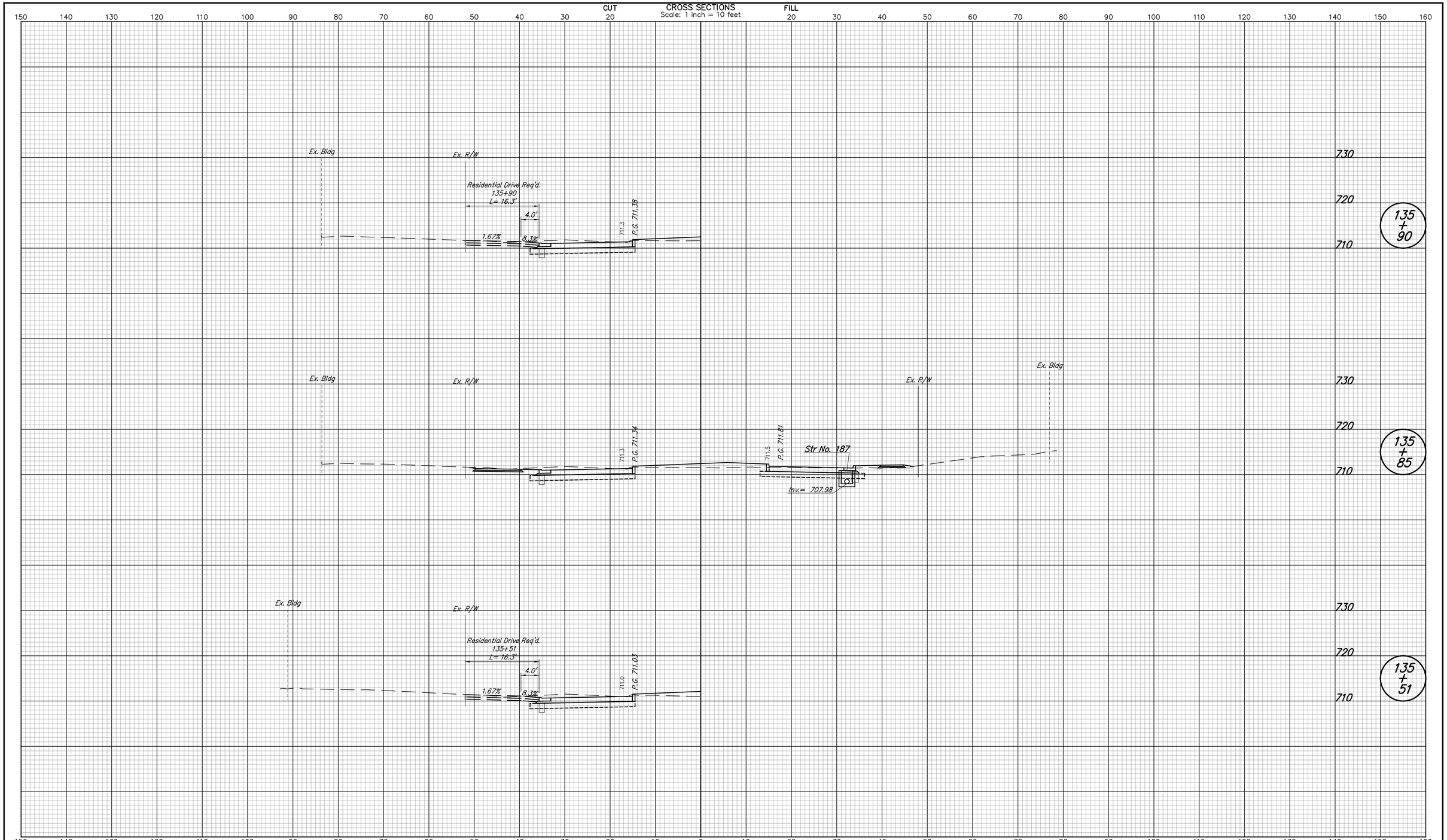
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 164 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:22 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



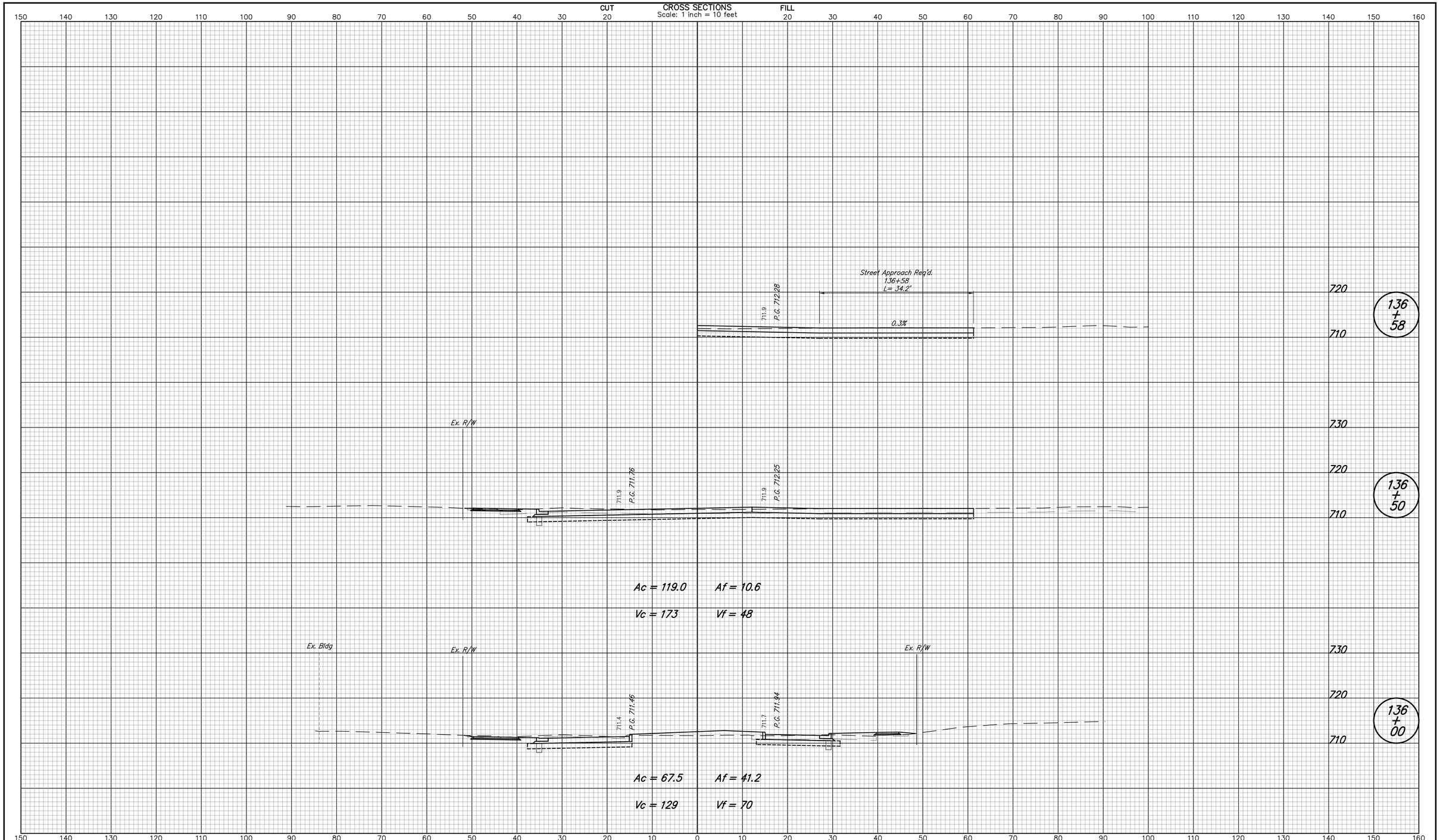
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 165 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:24 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



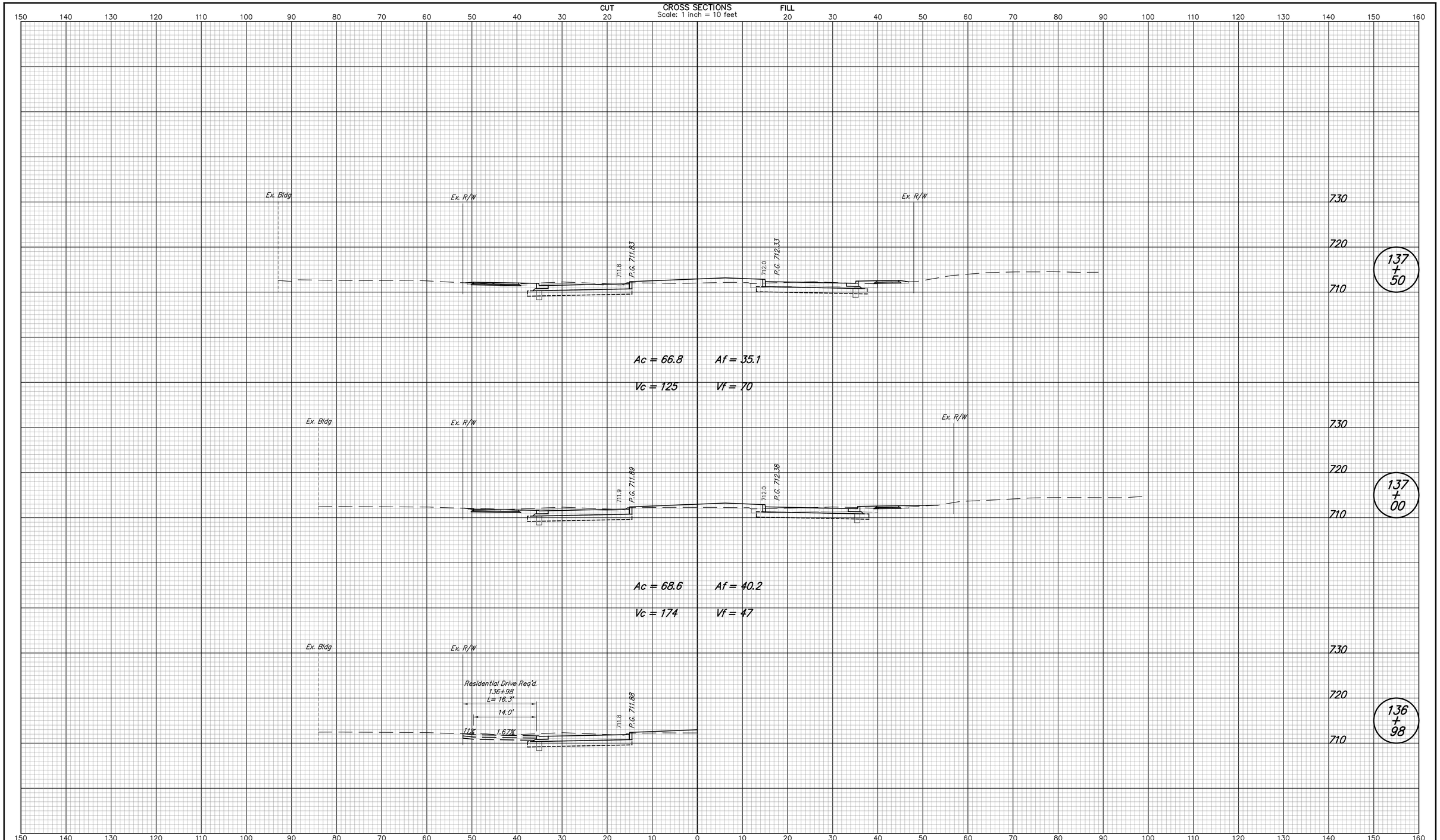
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 166 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:26 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



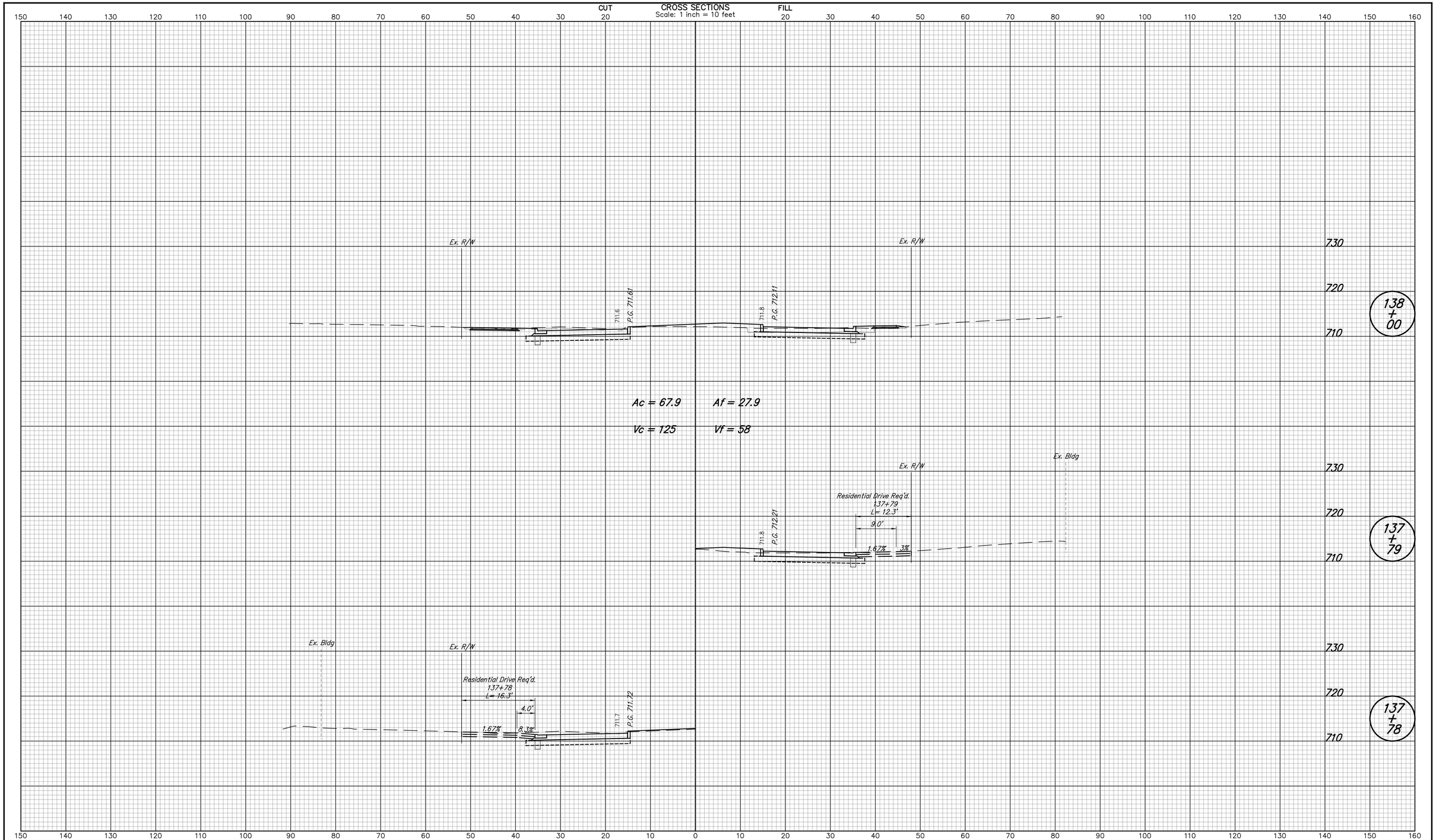
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 167 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:28 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



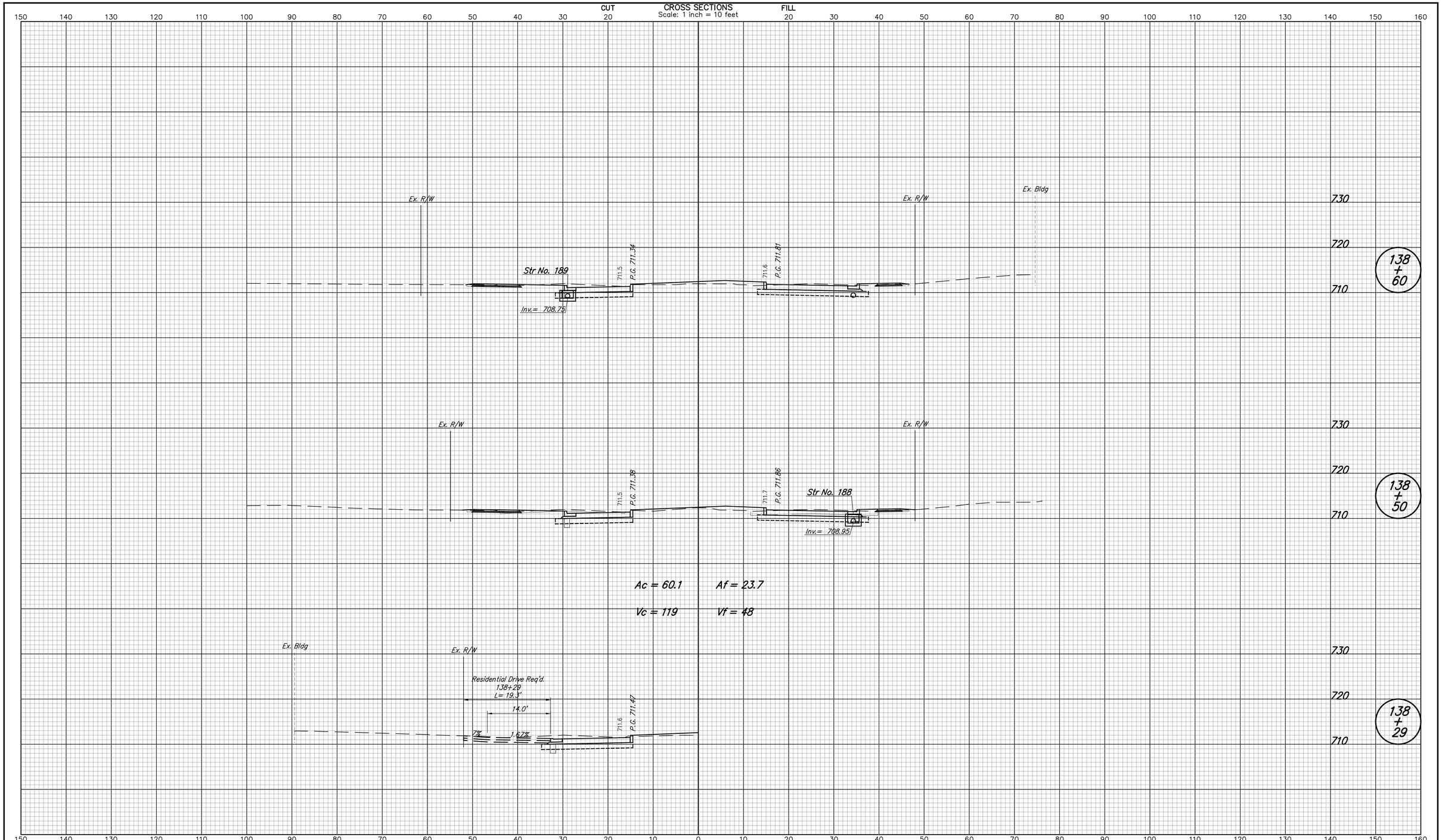
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 168 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:30 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



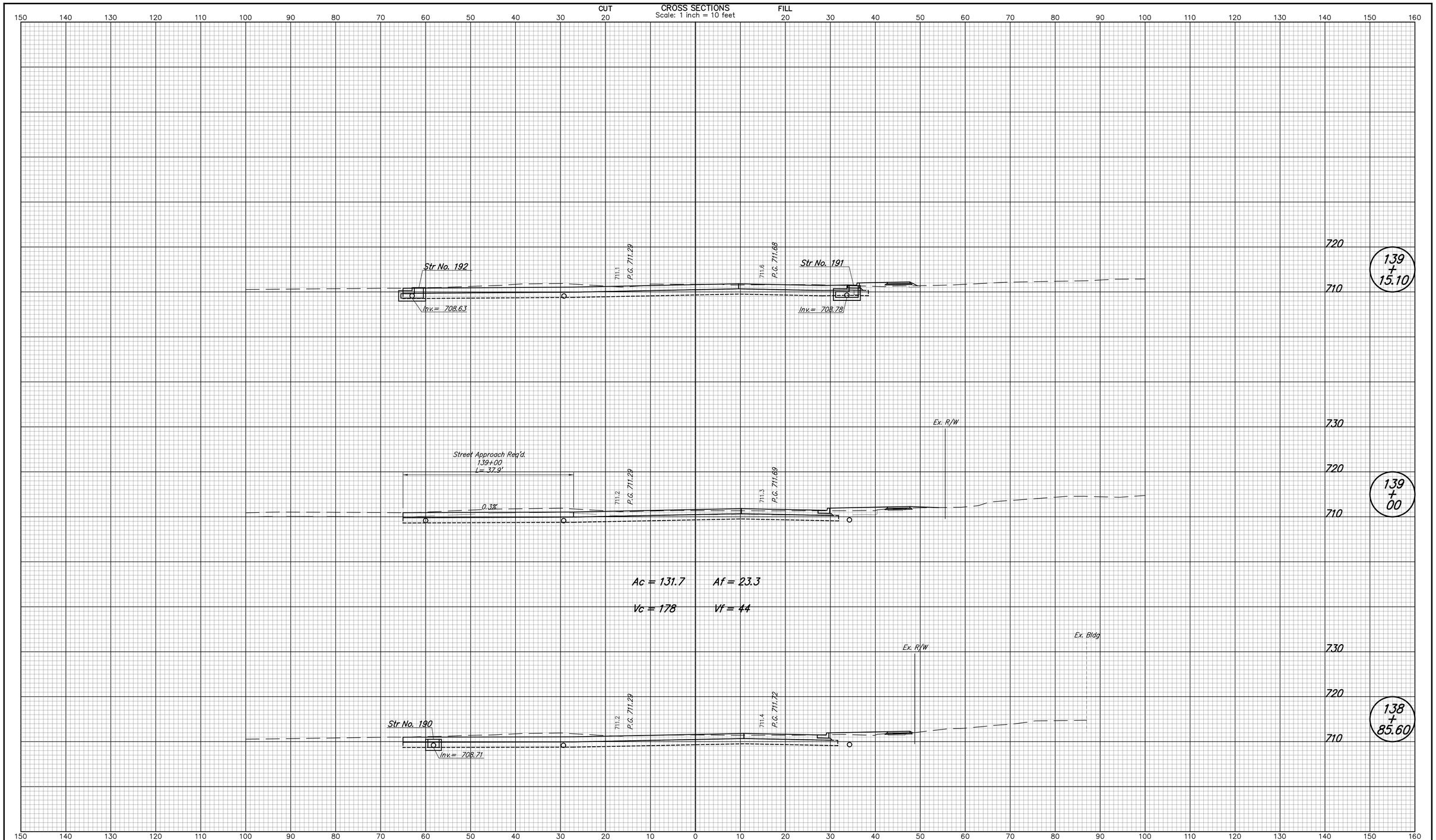
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 169 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:32 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



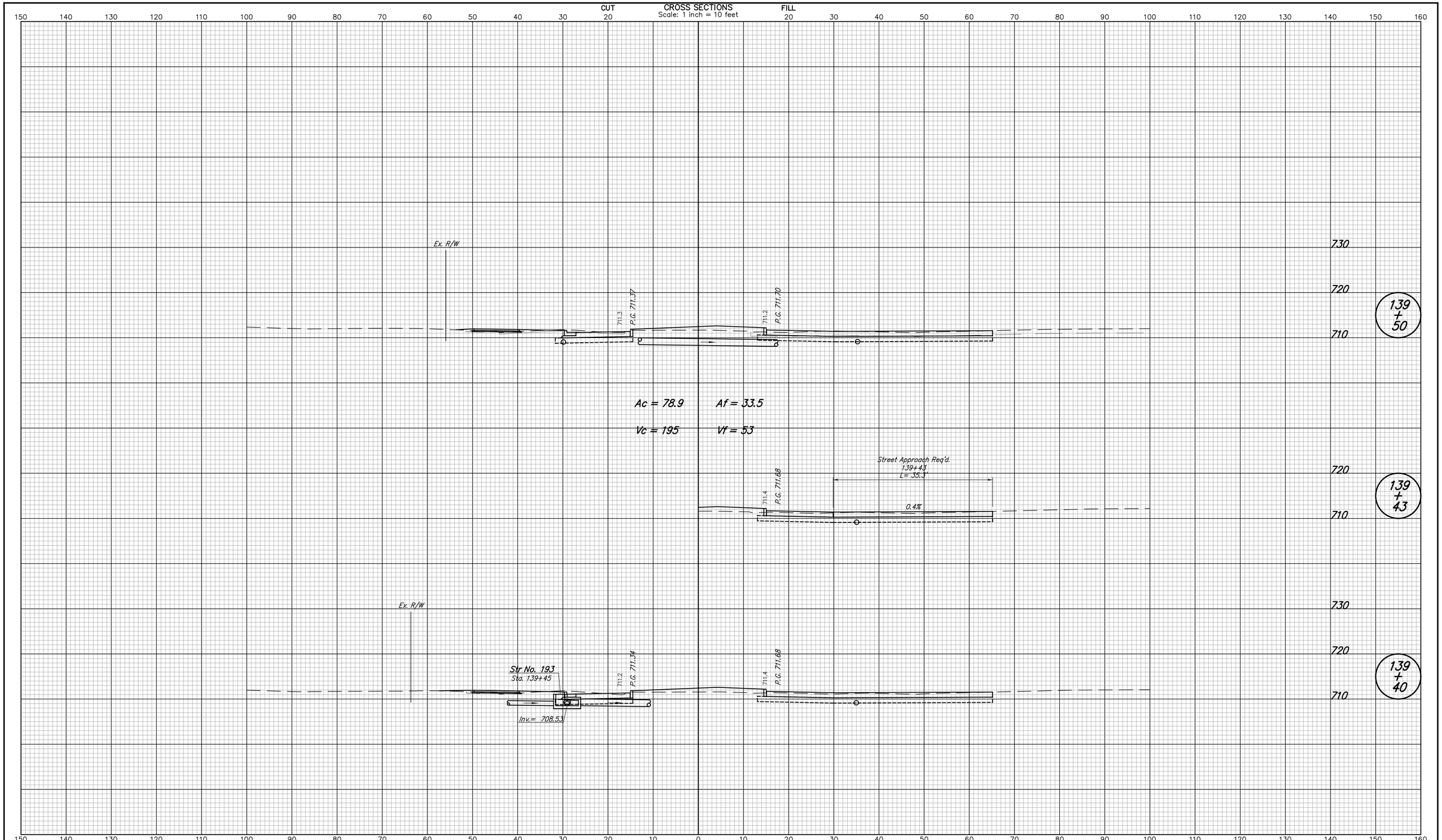
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 170 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:33 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



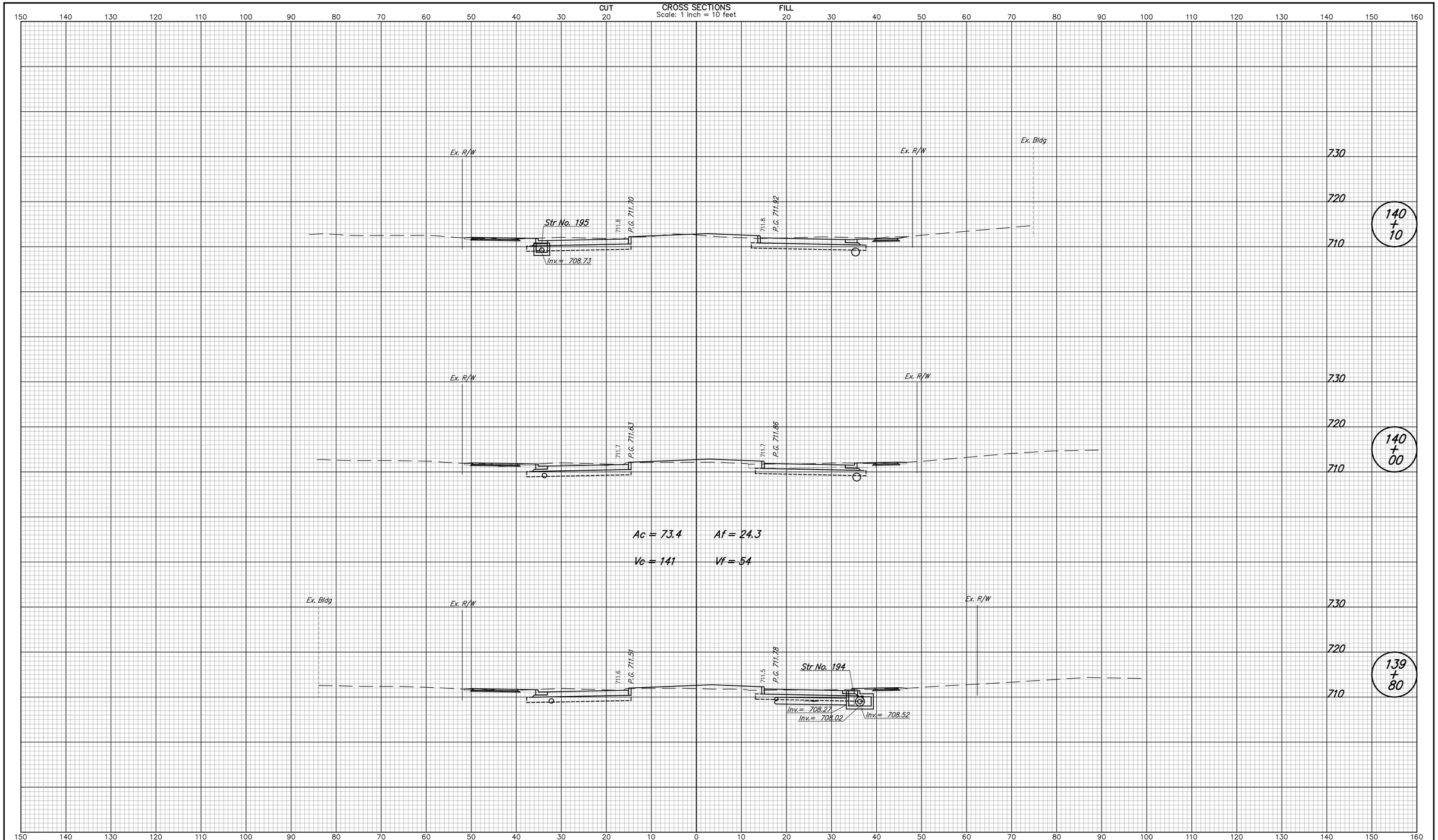
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 171 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:35 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



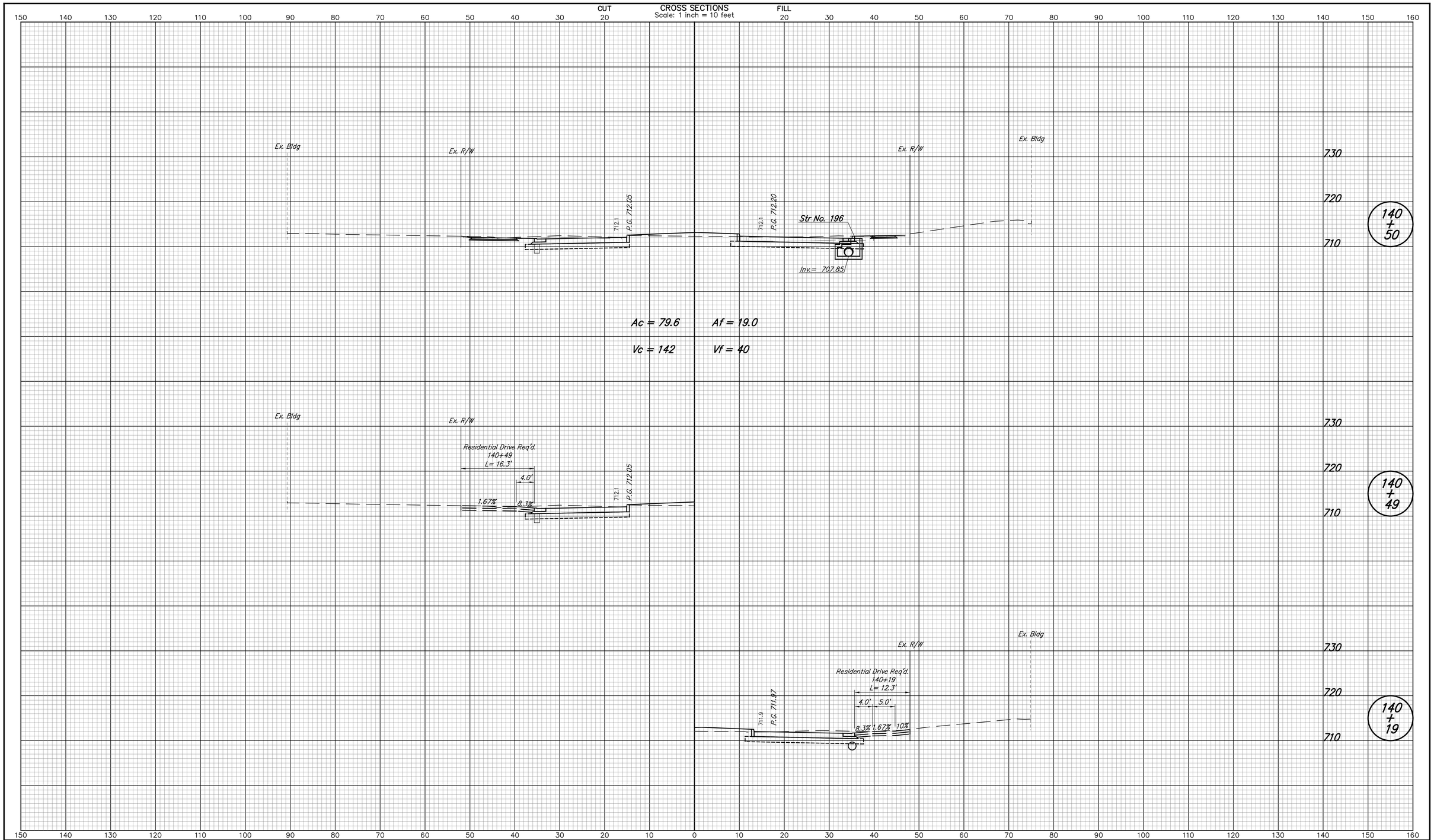
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 172 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:37 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



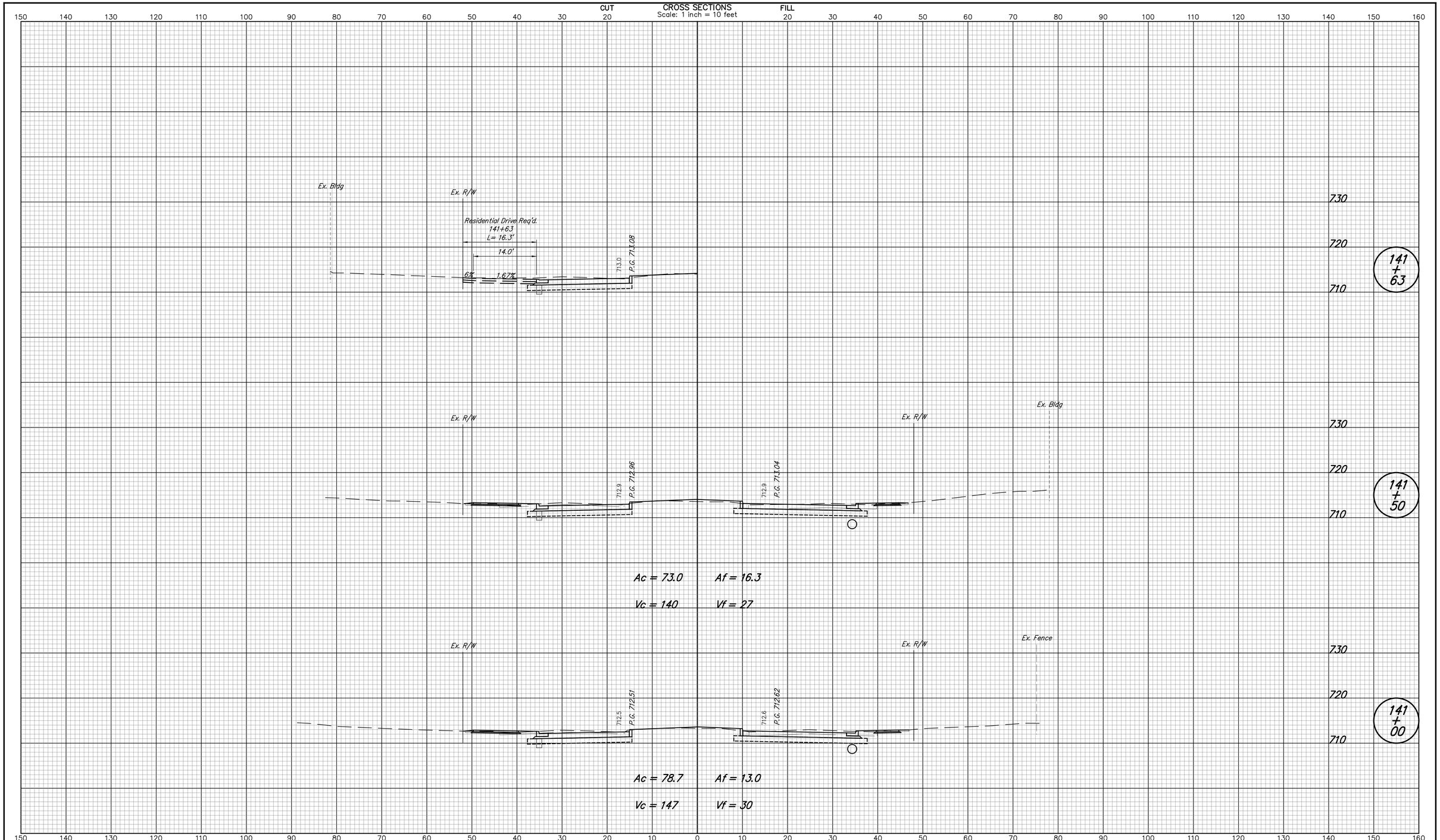
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 173 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:39 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn



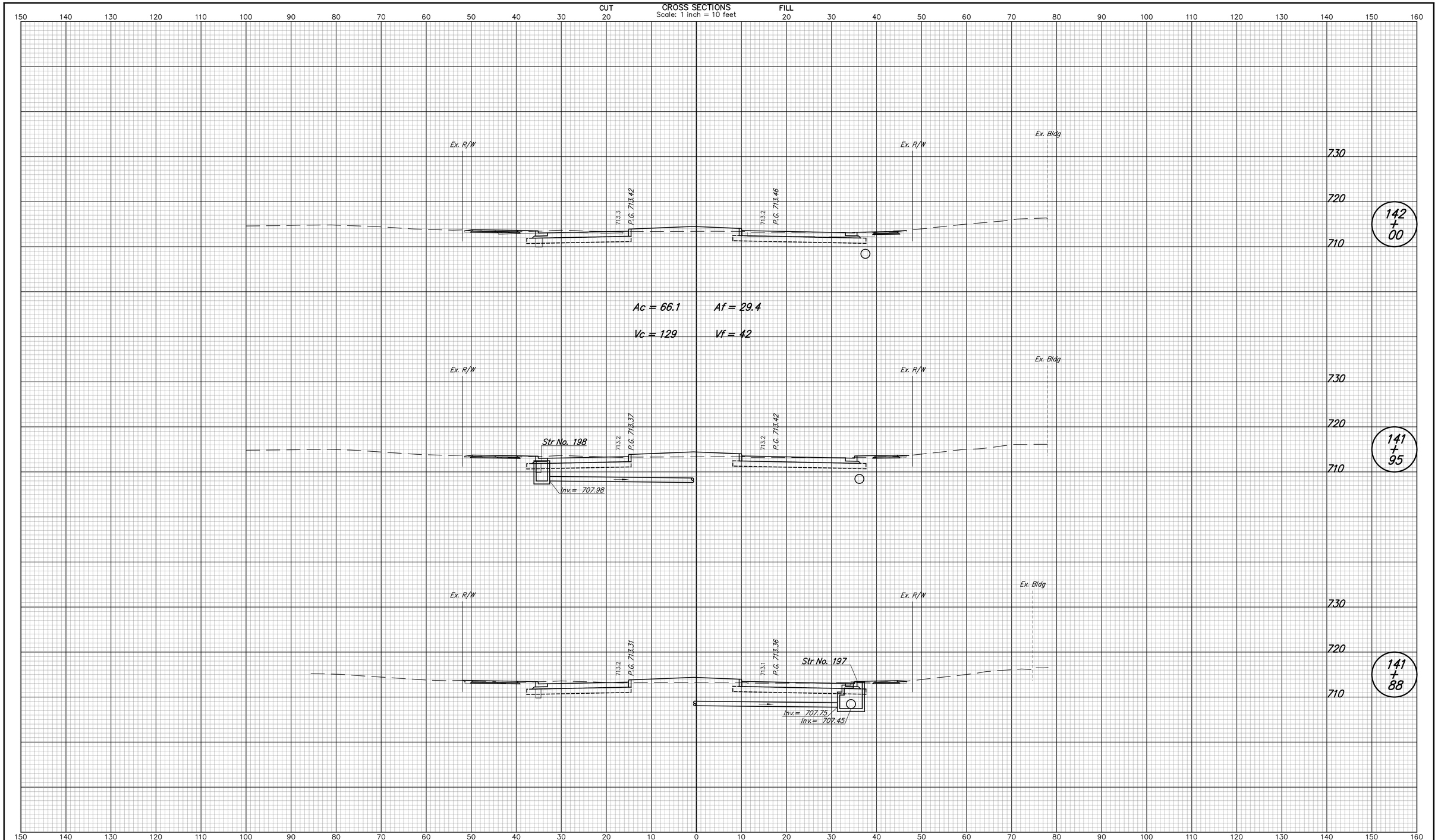
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 174 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:41 AM P:*2013*00985*D. Drawings*201300985.RD.CS.PR-A.01.dgn

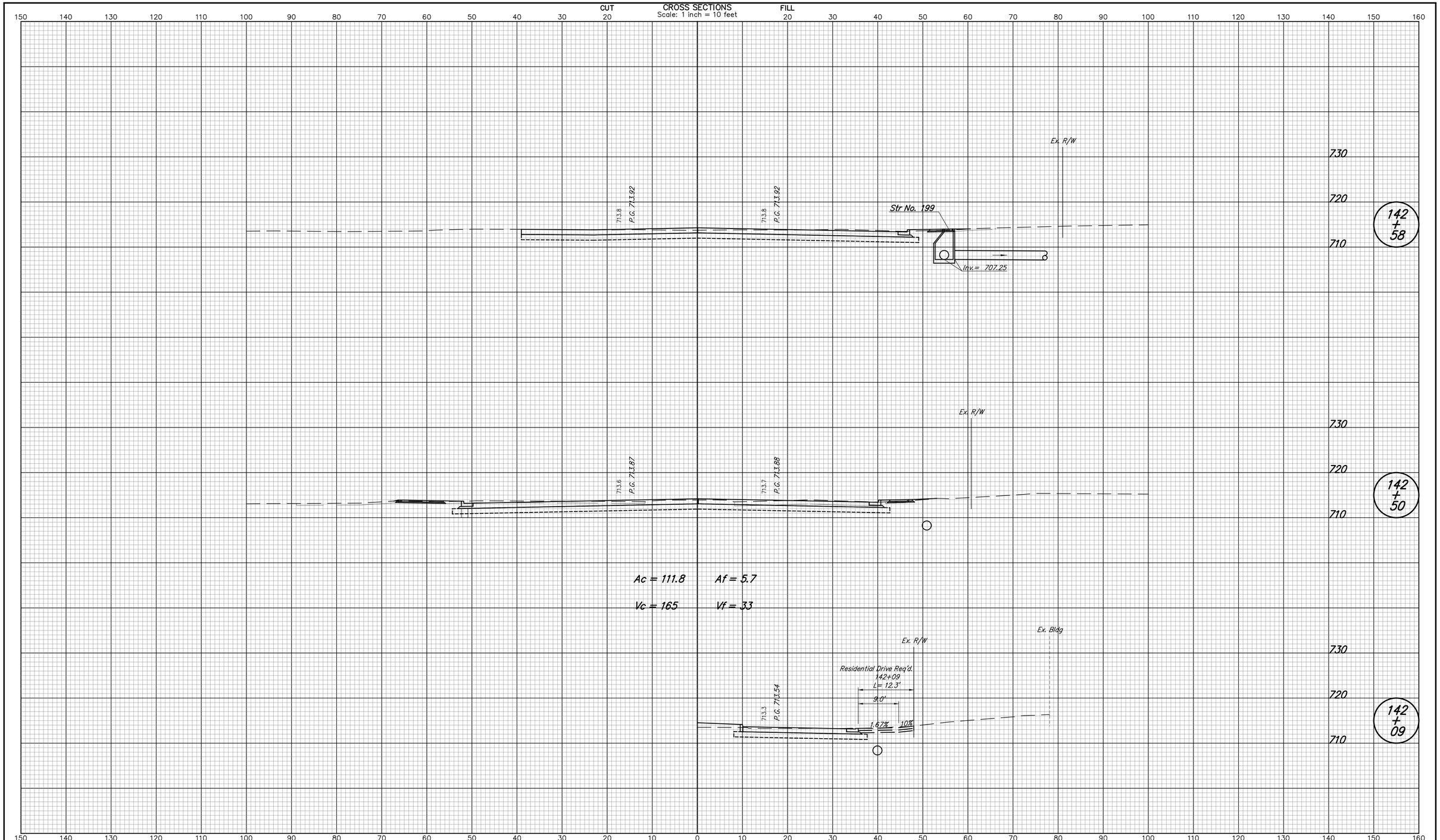


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10' / VERTICAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	SHEETS 175 of 181 / PROJECT NO.

nmurphy 5/8/2014 10:27:43 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn

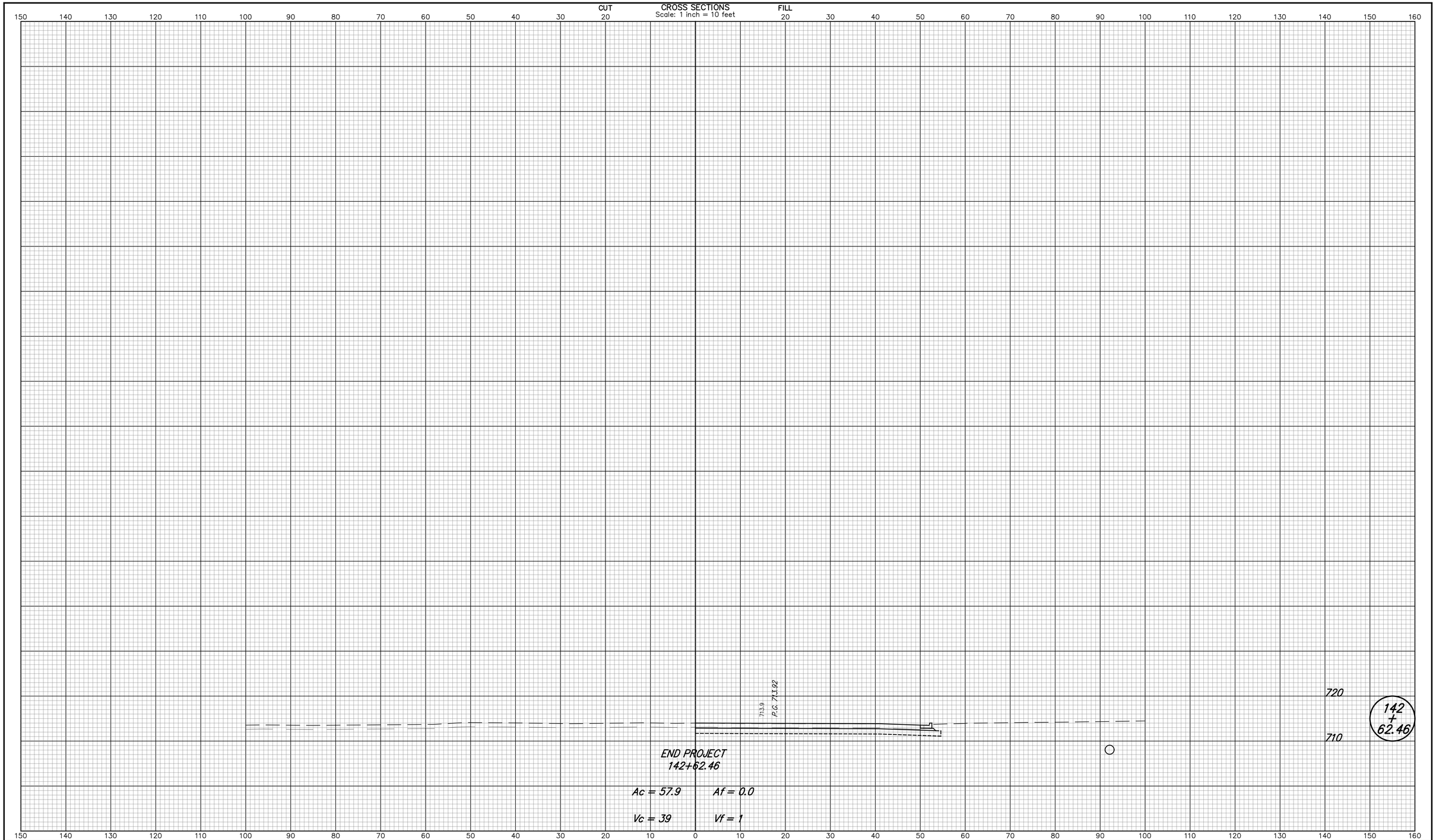


DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 176 of 181
			PROJECT NO.



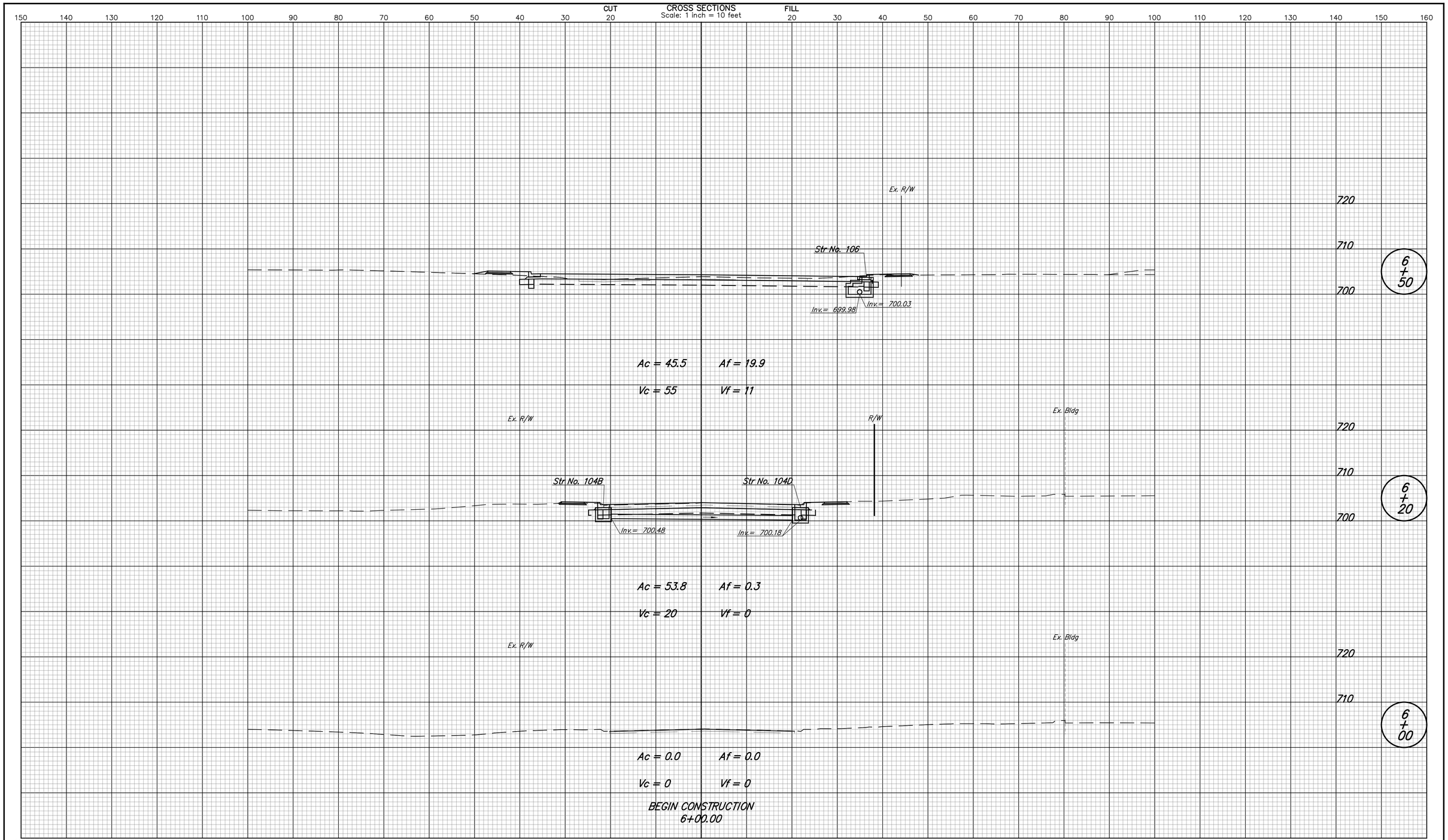
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 177 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:47 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



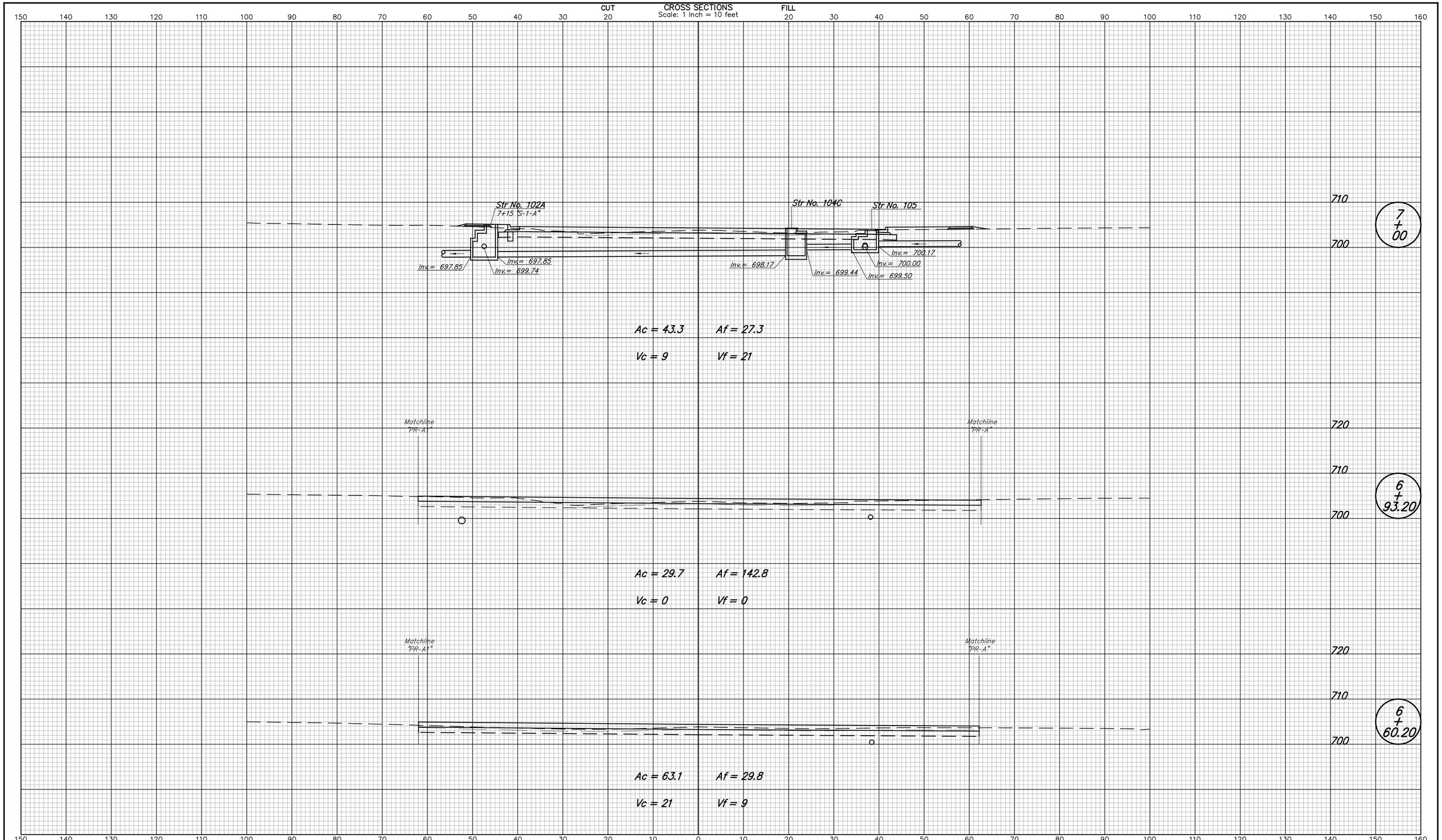
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "PR-A"	VERTICAL SCALE 1" = 10'
			SHEETS 178 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:49 AM P:*2013*00985*0. Drawings*201300985.RD.CS.PR-A.01.dgn



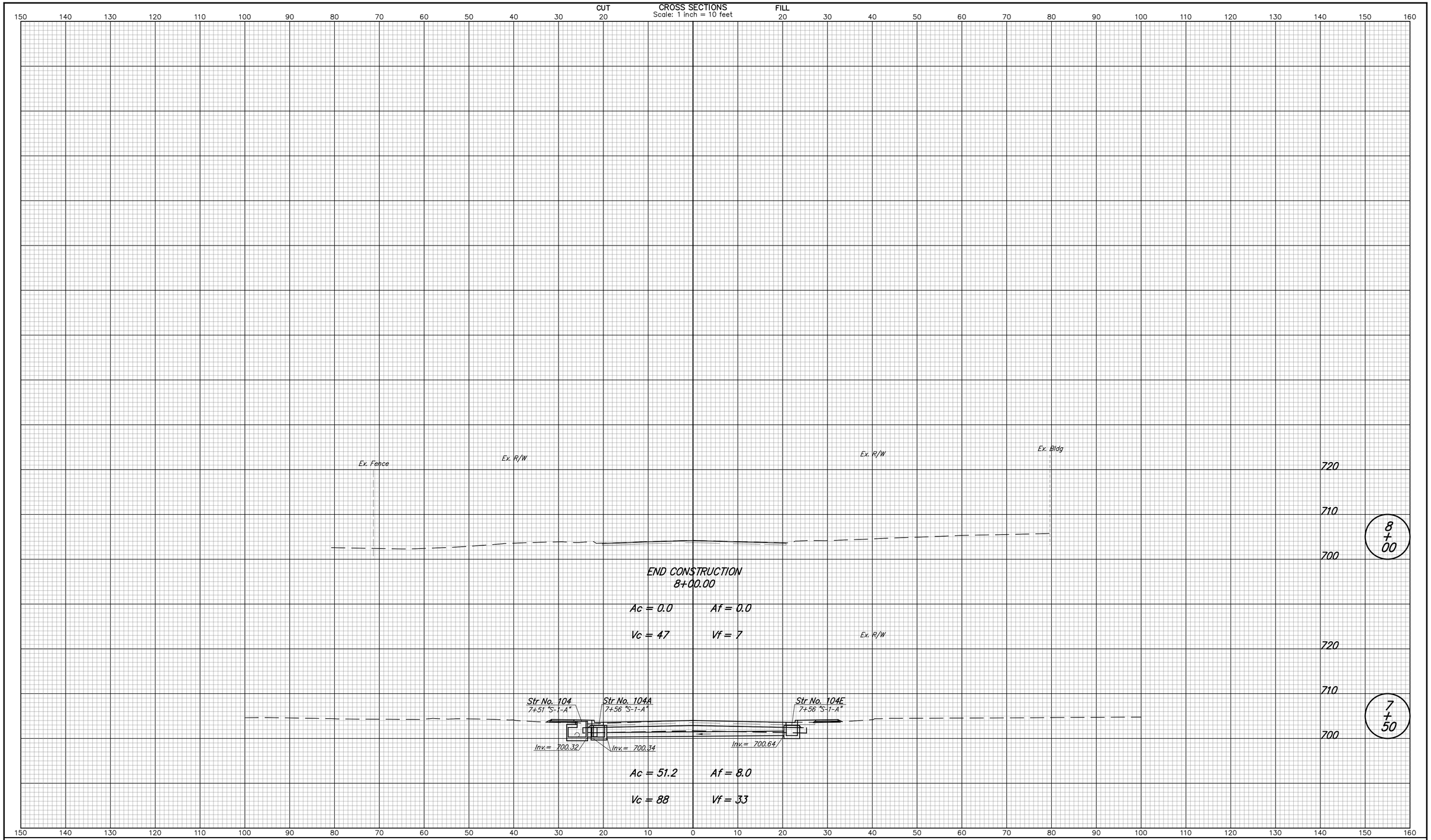
DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "S-1-A"	VERTICAL SCALE 1" = 10'
			SHEETS 179 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:49 AM P:*2013*00985*D. Drawings*201300985.RD.CS.S-1-A.01.dgn



DESIGNED: NRM	DRAWN: NRM	CITY OF WEST LAFAYETTE	HORIZONTAL SCALE 1" = 10'
CHECKED: MJM	CHECKED: MJM	CROSS SECTIONS LINE "S-1-A"	VERTICAL SCALE 1" = 10'
			SHEETS 180 of 181
			PROJECT NO.

nmurphy 5/8/2014 10:27:49 AM P:*2013*00985*0. Drawings*201300985.RD.CS.S-1-A.01.dgn



DESIGNED: NRM	DRAWN: NRM
CHECKED: MJM	CHECKED: MJM

CITY OF
WEST LAFAYETTE

CROSS SECTIONS
LINE "S-1-A"

HORIZONTAL SCALE	
1" = 10'	
VERTICAL SCALE	
1" = 10'	

	SHEETS
	181 of 181
	PROJECT NO.

nmurphy 5/8/2014 10:27:50 AM P:*2013*00985*D. Drawings*201300985.RD.CS.S-1-A.01.dgn