US Army Corps of Engineers/IDOT Coordination Meeting

Illinois Route 131
Sunset Avenue to Russell Road (Illinois/Wisconsin State Line)
Lake County
January 20, 2017

This is the second presentation of this project at a USACE meeting. The last presentation was on November 6, 2015. The project has also been presented at four NEPA/404 Merger meetings, the last time on September 7, 2016. At that meeting, the USACE deferred concurrence on the preferred alternative until additional information regarding wetland impacts is provided. The other agencies issued concurrence. The purpose of this meeting is to obtain USACE concurrence on the preferred alternative. The following items were discussed.

1. The project is located in northeast Lake County at the Wisconsin state line. The scope of the project is to widen and reconstruct seven miles of IL 131 to provide two lanes in each direction separated by a median, pedestrian and bicyclist accommodation, as well as intersection and drainage improvements.

2. The project is anticipated to impact 0.38 acres of wetlands and 0.032 acres of WOUS that are under the jurisdiction of USACE. A Jurisdictional Determination was issued by the USACE on January, 10, 2017. Total wetland and WOUS impacts for the project are 2.91 and 0.032 acres, respectively. Since the jurisdictional impacts are less than one acre, a regional permit is anticipated.

3. At the September 2016 NEPA meeting, the USACE questioned why the preferred alternative had more wetland impacts than Refined Alternatives E1 and E2. After Refined Alternative E1 and E2 were evaluated, the project scope changed to accommodate the expansion of the Waukegan Regional Airport which required IL 131 to be depressed under a proposed taxiway. As a result, the proposed drainage scope expanded to include a pump station and bypass sewers. The impacts for the Preferred Alternative were based on the expanded scope, but the Refined Alternatives E1 and E2 were not updated which created an unbalanced comparison with the Preferred Alternative as presented at the September 2016 NEPA/404 Merger meeting.

   The Refined Alternatives E1 and E2 have now been evaluated using the current project area, and design. The impacts for the Preferred Alternative from the September 2016 NEPA/404 Merger meeting and current design were also compared. The current Preferred Alternative has the least wetland impacts. See the *Updated Wetland Impacts for Refined Alternatives E1 and E2* table.

4. At the September 2016 NEPA meeting the USACE noted it is undesirable for BMPs to increase wetland impacts. As a result, the proposed regional detention basin has been shifted north out of Wetland 19.

5. The USACE previously noted Wetlands 19, 33, 40, 41 and 50 are high quality and should have BMPs. BMPs at these and all locations in the projects are listed in the *Best Management Practice Table* and are highlighted on the *BMP Exhibits*.

6. A pump station bypass sewer is proposed to outlet roadway discharge directly into Wetland 69, a HQAR, due to the existing topography. A BMP was not proposed since it would result in additional wetland impacts. Since this wetland is a HQAR, the USACE requested a BMP be evaluated. *Post meeting note – The bypass sewer was reevaluated and is able to be discharged approximately 50 feet prior to the wetland. A100-foot long vegetated ditch is proposed from the sewer and into the wetland for water quality. As a result, the anticipated wetland impact increases from 0.014 to 0.026 acres. Total wetland impacts under USACE jurisdiction are anticipated to be 0.393. See Sheet 8A of the BMP Exhibits.*

7. The USACE expects to provide concurrence of the Preferred Alternative.

8. The Environmental Assessment is being prepared. A public hearing is anticipated in 2017.

9. The USACE number for the project is LRC-2010-518.

<u>Attachments</u>
Presentation
Updated Wetland Impacts for Refined Alternatives E1 and E2 (Jan 2017)
Proposed BMPs (Jan 2017)
BMP Exhibits (Feb 2017) – Updated Post Meeting
USACE Impacted Wetland and WOUS Summary (Feb 2017)
USACE Jurisdictional Determination Letter dated January 17, 2017

By: Scott Czaplicki
IDOT/Programming-Consultant

S:\WP\p&es\CONSULT\Projects - Active\IL 131 from Russell to Sunset\Correspondence\USACOE\2017-01-05 USACE #2\2017-01-05 USACE Meeting Summary (DRAFT).docx

IDOT-U.S. Army Corps of Engineers Coordination Meeting
Sign-in Sheet

IL 131 Sunset to Russell / IL 60/83

January 20, 2016

Name	Organization	Phone	Email
Alycia Kluenenberg	IDOT/ Huff+Huff	708-209-5047	alycia.kluenenberg@illinois.gov
Julie Rimbault	USACE	312-846-5542	julie.c.rimbault@usace.army.mil
Brenda L. Alicea	IDOT - Programming	(847) 705-4186	Brenda.Alicea@illinois.gov
Tania Muller	IDOT - Programming		Tania.Muller@illinois.gov
Lori Brown	IDOT - PROGRAMMING	-4477	Lori.S.Brown@illinois.gov
John Sherrill	IDOT - BDE - Spfld.	217-785-2833	John.Sherrill@illinois.gov
Kimberly Murphy	IDOT - Programming	847-705-4791	Kimberly.Murphy@illinois.gov
Lynn Hobbs	IDOT - Programming	847-705-4782	Lynn.hobbs@illinois.gov
MELISSA DEL ROSARIO	IDOT - MAINTENANCE	847.705.4391	melissa.delrosario@illinois.gov
Kathy Chernich	USACE	312 846-5531	kathy.g.chernich@usace.army.mil
Vanessa Ruiz	IDOT	847-274-6513	vanessa.ruiz@illinois.gov
Jessica Feliciano	IDOT	847-705-4087	jessica.feliciano@illinois.gov
ANNA KUTRYN	IDOT	847 705 5189	anna.kutryn@illinois.gov.
AGAR SHIRANI	IDOT - HYDRAULICS	847-705-4765	AGAR.SHIRANI@ILLINOIS.GOV
~~JOHN BACZEK~~	~~IDOT - HYDRAULICS~~	~~847 705 4104~~	~~john.baczek@illinois.gov~~
~~Corey Smith~~	~~IDOT - PROG~~	~~847 705-5188~~	~~corey.smith@illinois.gov~~

Illinois Route 131
Sunset Avenue to Russell Road
Lake County

USACE Jurisdictional Wetland/WOUS Impact Table

February 2017

Wetland Site Number	PDP Sheet No.	Wetland Type	Mean C Value	Floristic Quality Index (FQI)	Preferred Alternative (Feb 2017)	Proposed BMP
55	2	Marsh	2.3	9.3	0.030	None - No roadway discharge into wetland
72	2	Wet Meadow	2.7	6.5	0.00	None - No roadway discharge into wetland
51	4	Wet Meadow	3.0	13.5	0.090	None - No roadway discharge into wetland
52	4	Forested Wetland	2.3	6.4	0.050	None - No roadway discharge into wetland
53	4	Wet Meadow	2.6	13.8	0.000	Overland vegetation (100') and riprap
70	6A	Marsh / Wet Meadow	3.8	32.8	0.000	None - No roadway discharge into wetland
71	6A	Wet Shrubland	3.4	23.8	0.000	None - No roadway discharge into wetland
69	8A	Marsh	3.3	25.4	0.026	Vegetated ditch (100')
41	11	Forested / Marsh	3.1	21.0	0.000	Overland vegetation (150')
40	11A	Marsh / Wet Meadow	3.1	19.6	0.000	None - No roadway discharge into wetland
65	21A	Wet Meadow	2.1	9.6	0.074	Vegetated ditch (10')
7	25	Wet Meadow	2.7	4.6	0.080	None - Entire wetland impacted
8	25	Marsh	2.4	12.2	0.033	Vegetated ditch (100')
9	25	Wetland Pond	3.0	14.4	0.010	None - No roadway discharge into wetland
58	32	Marsh	2.8	16.4	0.000	None - No roadway discharge into wetland
Total Impacts - USACE Jurisdictional Wetlands (Acres)					**0.393**	

WOUS Site Number	PDP Sheet No.	Watershed	Community Type	Waters Type	Preferred Alternative (Feb 2017)	Proposed BMP
W7	4	Des Plaines River	Stream/Ditch	NRPW	0.010	None - Entire WOUS impacted
W6	6A, 8A	Des Plaines River	Stream	RPW	0.000	Existing vegetated ditch (600')
W4	25	Des Plaines River	Stream	RPW	0.001	Permanent ditch checks for retention
W5	25	Des Plaines River	Stream	RPW	0.021	Permanent ditch checks for retention
Total Impacts - USACE Jurisdictional WOUS (Acres)					**0.032**	

Total Impacts - USACE Jurisdictional Wetland and WOUS (Acres)	**0.425**

Note - The impacts for Wetland 69 increased from 0.014 to 0.026 since the January 20, 2017 USACE meeting to provide a 100' vegetated swale.

S:\WP\p&es\CONSULT\Projects - Active\IL 131 from Russell to Sunset\Correspondence\USACOE\2017-01-05 USACE #2\[USACE Wetland Impacts (Feb 2017).xlsx]Sheet1

IL 131

GREEN BAY ROAD PROJECT

Sunset Avenue to Russell Road

U.S. Army Corps of Engineers

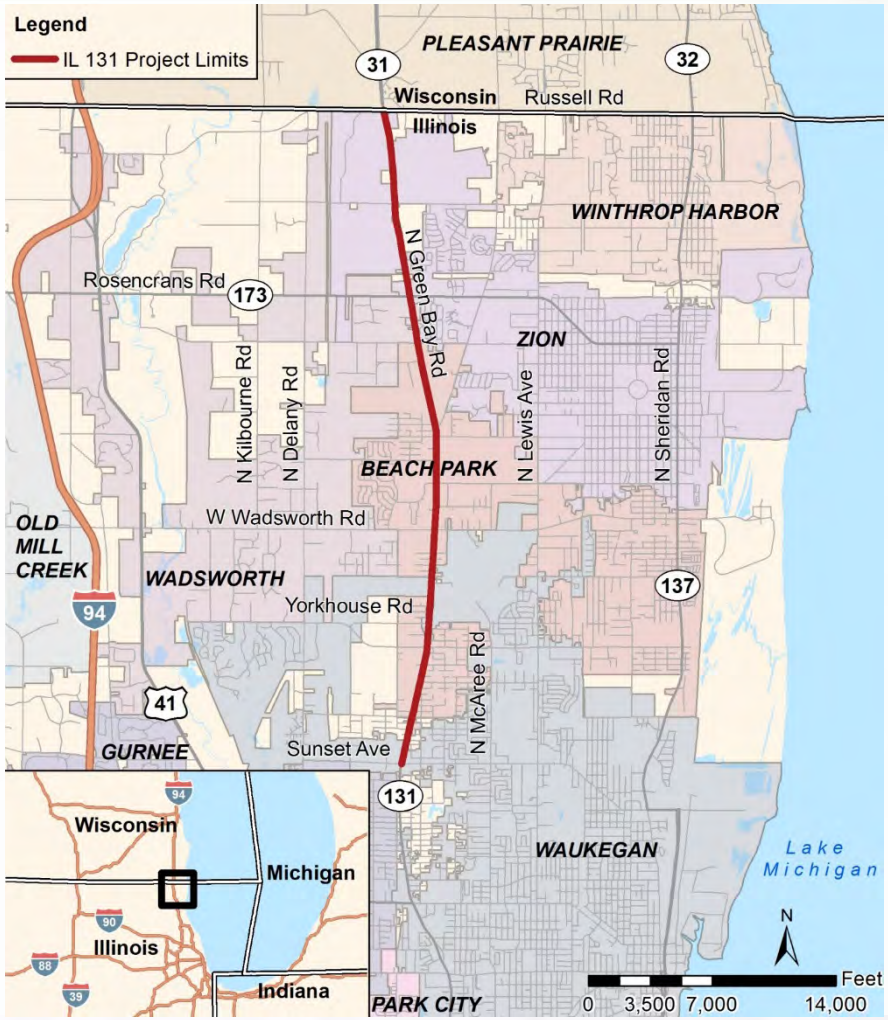
Meeting No. 2

January 20, 2017

IL 131
GREEN BAY ROAD PROJECT

Project Location

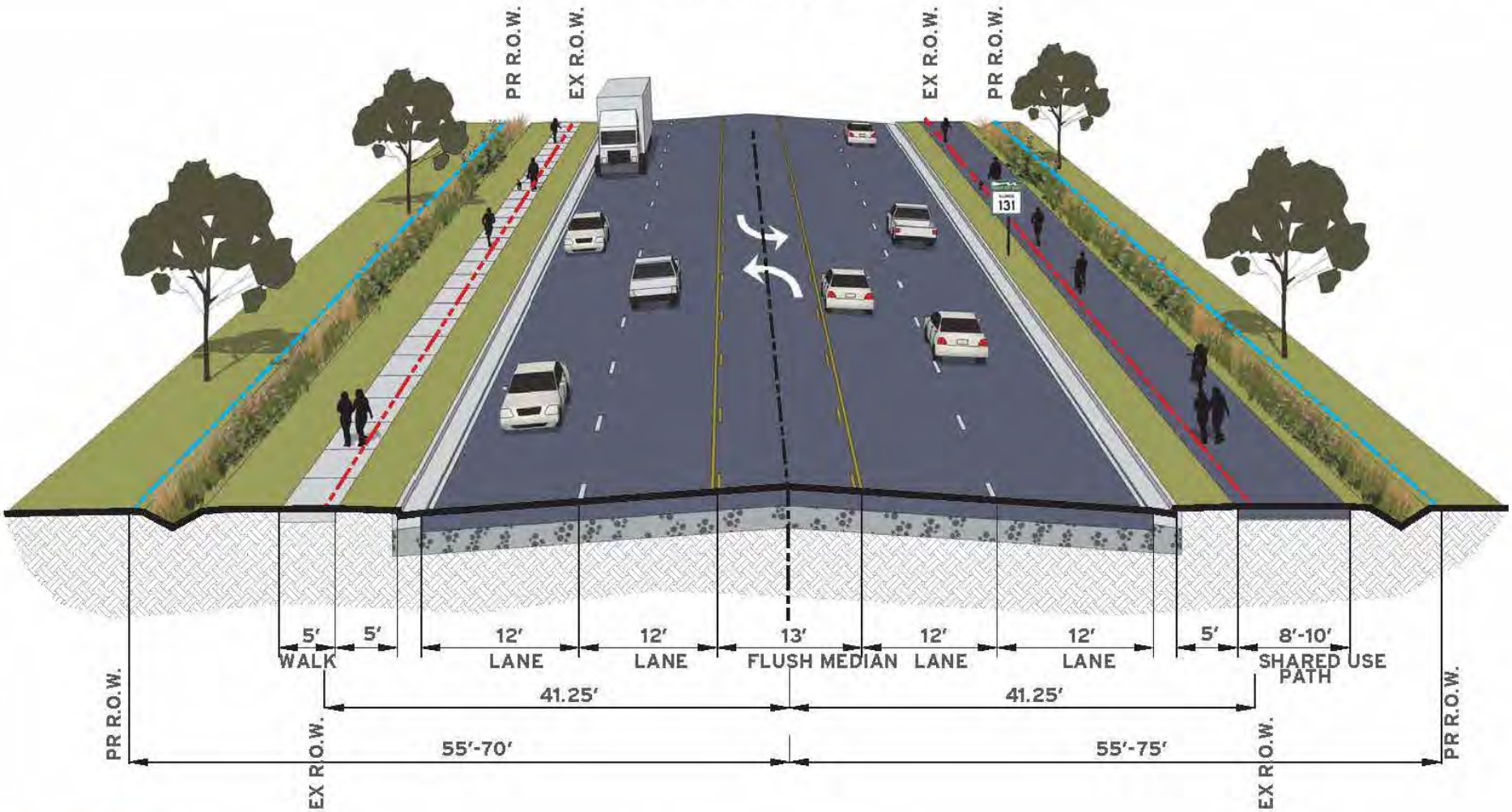
Sunset Avenue to Russell Road



ILLINOIS ROUTE 131 | PREFERRED ALTERNATIVE

< PREFERRED ALTERNATIVE >
4-LANE WITH FLUSH MEDIAN,
CURB AND GUTTER, AND
SHARED USE PATH

STA. 1604+40 (SUNSET AVENUE) < TO > STA. 1679+00 (YORKHOUSE ROAD)



IL 131
GREEN BAY ROAD PROJECT

www.IL131Project.com

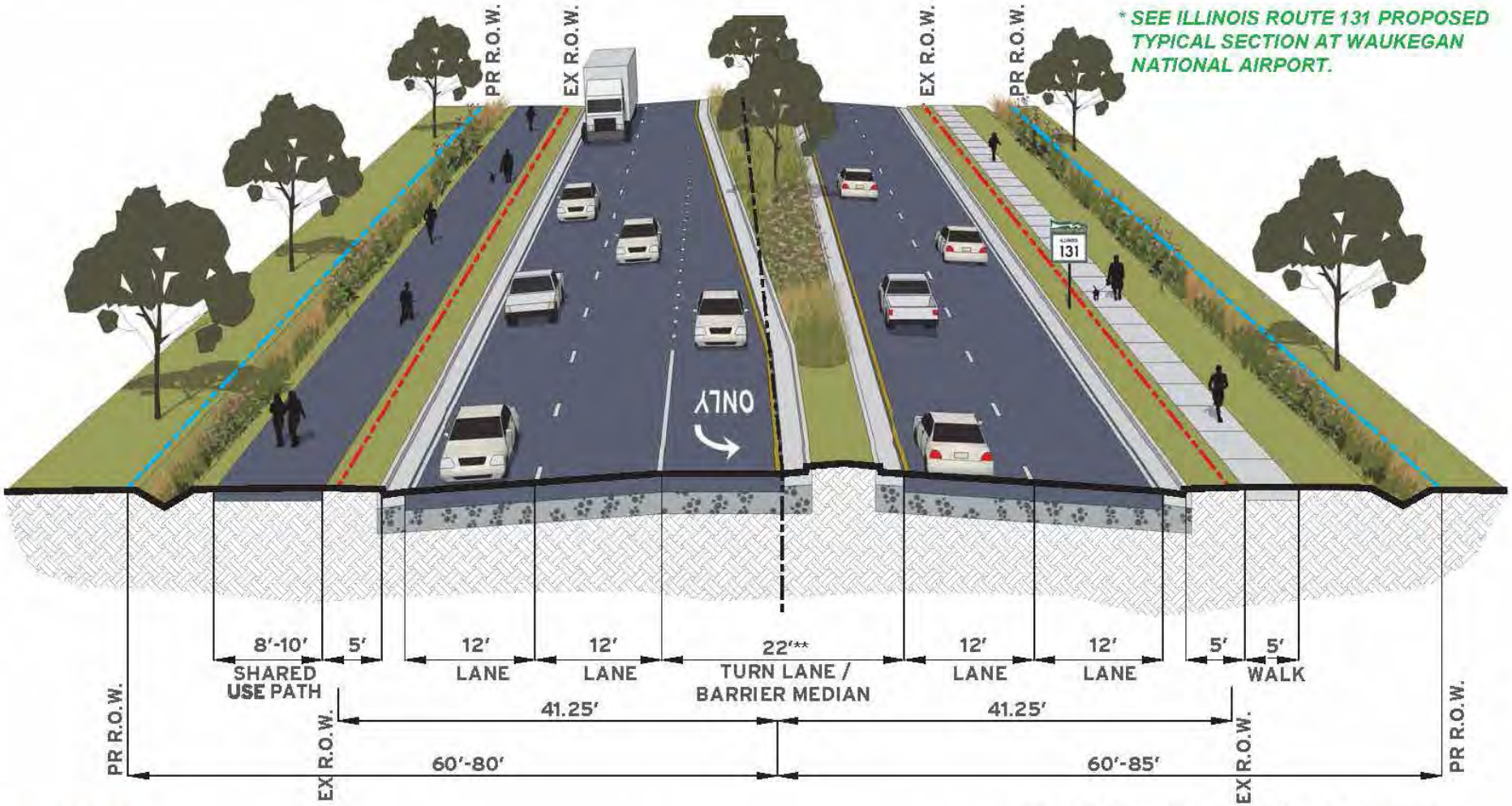
Illinois Department of Transportation

ILLINOIS ROUTE 131 | PREFERRED ALTERNATIVE

< PREFERRED ALTERNATIVE >
4-LANE WITH LANDSCAPED BARRIER MEDIAN, CURB AND GUTTER, SIDEWALK AND SHARED USE PATH

STA. 1679+00* (YORKHOUSE ROAD) < TO > STA. 1968+00 (STONE BRIDGE DRIVE)
AND
STA. 1932+30 (9TH STREET) — STA. 1968+00

** SEE ILLINOIS ROUTE 131 PROPOSED TYPICAL SECTION AT WAUKEGAN NATIONAL AIRPORT.*



***14' BARRIER MEDIAN FROM YORKHOUSE ROAD TO 33RD STREET.*

IL 131 GREEN BAY ROAD PROJECT

www.IL131Project.com

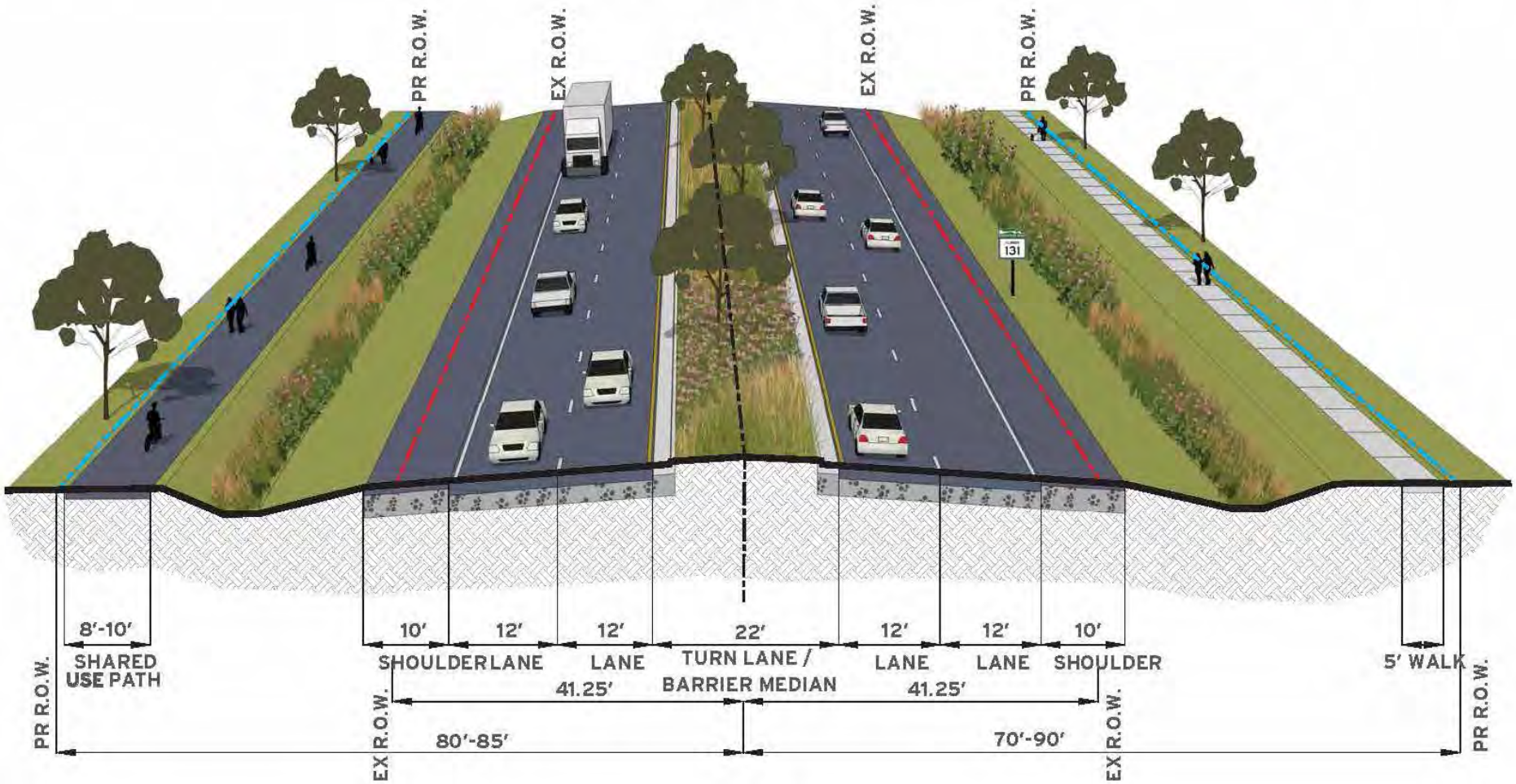
Illinois Department of Transportation

ILLINOIS ROUTE 131 | PREFERRED ALTERNATIVE

STA. 1905+00 (STONE BRIDGE DRIVE) < TO > STA. 1932+30 (9TH STREET)

STA. 1968+00 < TO > STA. 1988+80 (RUSSELL ROAD)

< PREFERRED ALTERNATIVE >
4-LANE WITH LANDSCAPED BARRIER MEDIAN, SHOULDER, SIDEWALK AND SHARED USE PATH



IL 131 GREEN BAY ROAD PROJECT

www.IL131Project.com

Illinois Department of Transportation

Old Alternative Comparison

Exhibit 2A
Alternatives Evaluation Matrix

May 2016

PROJECT TOTAL RUSSELL ROAD to SUNSET AVENUE						
	Impacts / Alternative	Units	No-Build Alternative	Refined Alternative E1	Refined Alternative E2	Preferred Alternative E3
Estimated Costs	Length	mi	N/A	7.28	7.28	7.28
	Estimated Construction Cost	$	$0	$97,692,600	$100,257,600	$103,208,000
	Cost per Linear Foot	$/lft	$0	$2,542	$2,608	$2,685
	Estimated Construction Cost of Shared Use Path and Sidewalk	$	$0	$2,884,000	$3,602,000	$2,652,000
	Estimated Construction Cost of Retaining Walls	$	$0	$2,167,700	$4,783,700	$4,715,000
	Land Acquisition Cost	$	$0	$9,939,000	$6,942,000	$7,961,000
	Residential Acquisition	ac	0.00	32.28	21.50	23.99
	Potential Residential Relocations	each	0	46	8	3
	Commercial Acquisition	ac	0.00	5.30	4.00	3.59
	Potential Commercial Relocations	each	0	7	1	1
	Farmland Acquisition	ac	0.00	5.26	3.91	5.16
	Farmland Parcels Impacted	each	0	9	9	9
	Industrial Acquisition	ac	0.00	5.75	4.69	3.76
	Potential Industrial Relocations	each	0	1	1	1
	Total Right-of-Way Acquisition	ac	0.00	48.59	34.10	36.50
	Total Temporary Easement	ac	0.00	0.14	0.14	1.26
	Total Permanent Easement	ac	0.00	3.33	3.09	1.60
Affected Environment	Impacted Wetlands	ac	0.00	2.67	2.35	3.17
	Impacted Archaeological Sites	ac	0	0	0	0
	Floodplain Encroachment	ac	0	0	0	0
	Special Waste Sites Impacted	each	0	35	35	35
	Impacts to Section 4(f) Lands (easement or de minimis)	ac	0.0	1.1	1.1	1.2

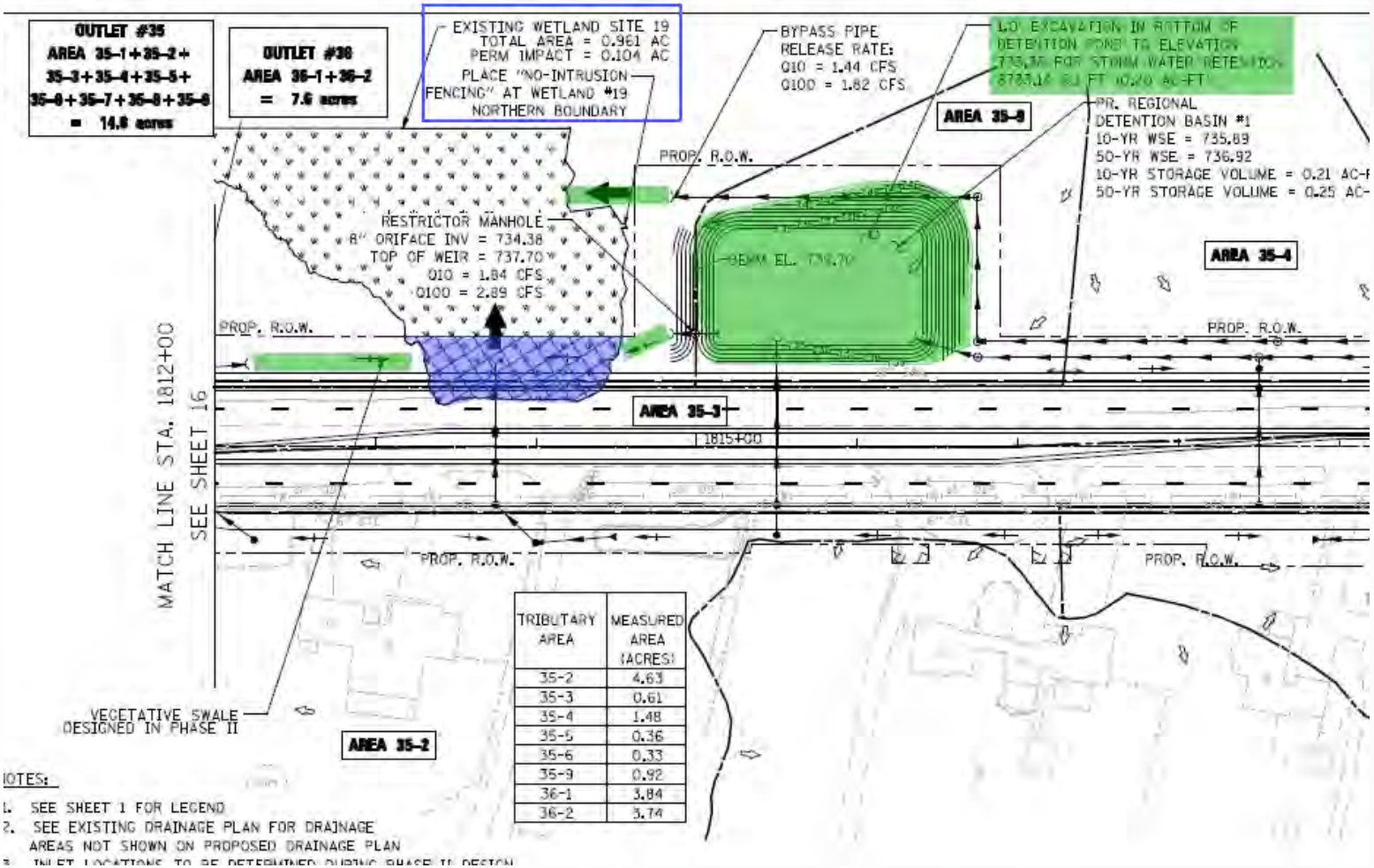
Updated Alternative Comparison

Sunset Avenue to Russell Road

			No-Build Alternative	Refined Alternative E1	Refined Alternative E2	Preferred Alternative
Impacted Wetlands (2010)			**0**	**2.67**	**2.35**	**NA**
Impacted Wetlands (Sept 2016)			**0**	Not Reevaluated	Not reevaluated	**3.17**
Additional impacts based on expanded project area and refined design						
Wetland Site	**Reason for Change**	**PDP Sheet**	**No-Build Alternative**	**Refined Alternative E1**	**Refined Alternative E2**	**Preferred Alternative**
6	Refined drainage design for storm sewer/ditch	27	0	0.000	0.076	-
8	Refined drainage design for storm sewer/ditch	25	0	0.000	0.130	-
18	Bypass pipe around detention pond for offsite flow	17	0	0.124	0.124	-
19	Regional detention basin	17	0	0.065	0.065	-0.216
60	Refined drainage design	24	0	0.160	0.160	-
65	Taylor Lane storm sewer outlet	21A	0	0.074	0.074	-
69	Bypass sewer for depressed IL 131 to minimize pump station area	8A	0	0.014	0.014	-
Impacted Wetlands (Dec 2016)			**0**	**3.11**	**2.99**	**2.91**

Relocated BMPs

Sunset Avenue to Russell Road



TRIBUTARY AREA	MEASURED AREA (ACRES)
35-2	4.63
35-3	0.61
35-4	1.48
35-5	0.36
35-6	0.33
35-9	0.92
36-1	3.84
36-2	3.74

BMPs Provided

Wetland Site	FQI	PDP Sheet	Best Management Practice (BMP) Provided
53	13.8	4	Several hunderd feet of existing ditch/swale located upstream of wetland. Proposed riprap also provided at outfalls
50	**18.9**	**6**	**Retaining wall added to minimize impact into wetland. All impacts are within the existing right-of-way. Discharging the storm sewer into a ditch prior to the wetland was reviewed, but is not proposed due to property/septic field impacts. Two vortex separators added for BMP.**
69	25.4	8A	This bypass pipe is proposed to reduce pump station drainage area. The pipe outlets into wetland due to existing topography and required pipe elevation. A BMP cannot be provided without creating additional impacts within wetland.
41	**21.0**	**11**	**Storm sewer outlets sheet flows over 150 feet prior to reaching wetland**
40	**19.6**	**11A**	**Wetland is outside of project limits and is not impacted. No roadway runoff discharges into it. No BMP provided.**
33	**15.8**	**14**	**Wetland is upstream of improvements. No roadway runoff discharges into it. A retaining wall is proposed to minimize impact. Impacts are within existing ROW. No BMP provided.**
25	8.0	15	Storm sewers outlet to ditch/vegetative swale upstream of wetland
21	6.4	16	Storm sewer outlets 100 feet prior to wetland
19	**18.8**	**17**	**Stormwater is routed through regional detention basin prior to outletting into wetland. The basin was moved to the north out of wetland. No roadway runoff discharges directly into wetland. Basin overexcavated to provide stormwater retention**
10	5.6	24	Storm sewer outlets to ditch/vegetative swale upstream of wetland
8	12.2	25	Storm sewer outlets to ditch/vegetative swale upstream of wetland. Permanent ditch checks also provided for retention.
W4	-	25-27	Permanent ditch checks for retention
2	3.5	30-31	Permanent ditch checks for retention. Stormwater is routed through regional detention basin. Basin overexcavated to provide stormwater retention

Questions/Discussion
Concurrence

Illinois Route 131
Sunset Avenue to Russell Road
Lake County

Updated Wetland Impacts for Refined Alternatives E1 and E2

January 20, 2017

			No-Build Alternative	Refined Alternative E1	Refined Alternative E2	Preferred Alternative
Impacted Wetlands (2010)			**0**	**2.67**	**2.35**	**NA**
Impacted Wetlands (Sept 2016)			**0**	Not Reevaluated	Not reevaluated	**3.17**
Additional impacts based on expanded project area and refined design						
Wetland Site	**Reason for Change**	**PDP Sheet**	**No-Build Alternative**	**Refined Alternative E1**	**Refined Alternative E2**	**Preferred Alternative**
6	Refined drainage design for storm sewer/ditch	27	0	0.000	0.076	-
8	Refined drainage design for storm sewer/ditch	25	0	0.000	0.130	-
18	Bypass pipe around detention pond for offsite flow	17	0	0.124	0.124	-
19	Regional detention basin	17	0	0.065	0.065	-0.216
60	Refined drainage design	24	0	0.160	0.160	-
65	Taylor Lane storm sewer outlet	21A	0	0.074	0.074	-
69	Bypass sewer for depressed IL 131 to minimize pump station area	8A	0	0.014	0.014	-
Impacted Wetlands (Dec 2016)			**0**	**3.11**	**2.99**	**2.91**

S:\WP\p&es\CONSULT\Projects - Active\IL 131 from Russell to Sunset\Correspondence\USACOE\2017-01-05 USACE #2\[Wetland Impacts (Updated E1 and E2).xlsx]exhibit

Illinois Route 131
Sunset Avenue to Russell Road
Lake County

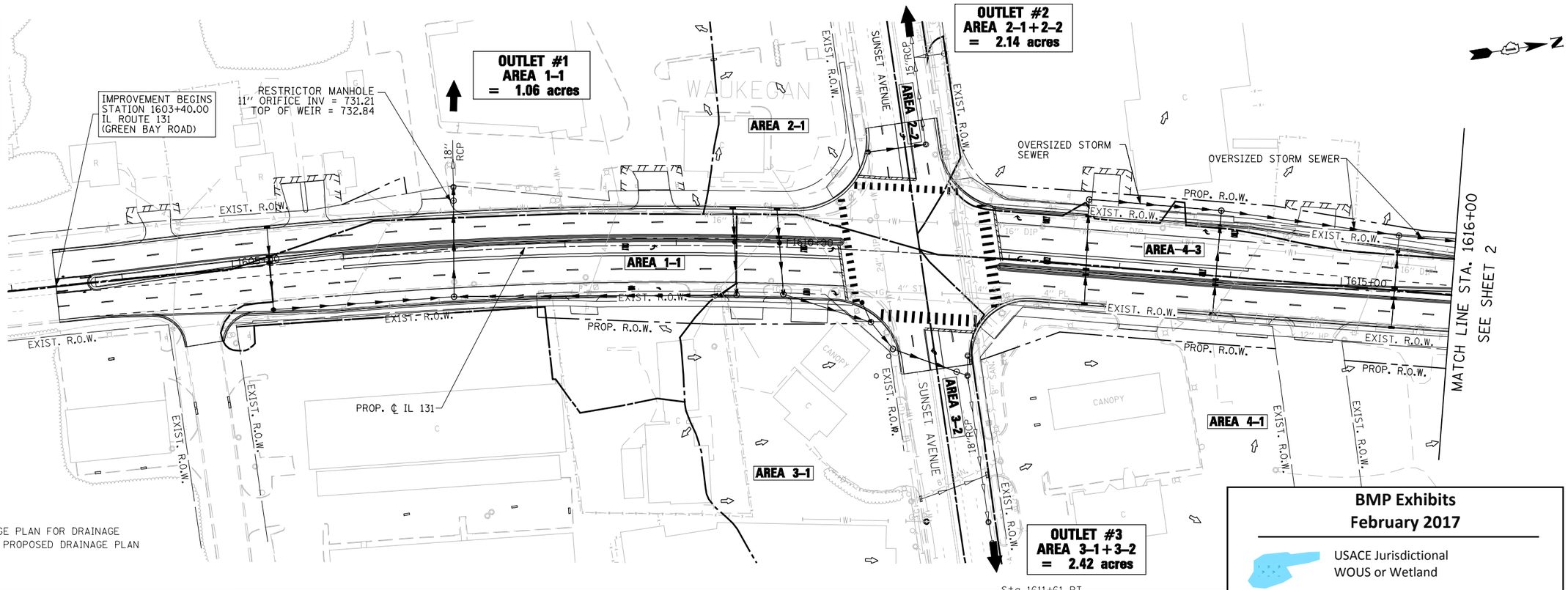
Best Management Practice (BMP) Table

January 20, 2017

Wetland Site	FQI	PDP Sheet	Best Management Practice (BMP) Provided
53	13.8	4	Several hunderd feet of existing ditch/swale located upstream of wetland. Proposed riprap also provided at outfalls
50	**18.9**	**6**	**Retaining wall added to minimize impact into wetland. All impacts are within the existing right-of-way. Discharging the storm sewer into a ditch prior to the wetland was reviewed, but is not proposed due to property/septic field impacts. Two vortex separators added for BMP.**
69	25.4	8A	This bypass pipe is proposed to reduce pump station drainage area. The pipe outlets into wetland due to existing topography and required pipe elevation. A BMP cannot be provided without creating additional impacts within wetland.
41	**21.0**	**11**	**Storm sewer outlets sheet flows over 150 feet prior to reaching wetland**
40	**19.6**	**11A**	**Wetland is outside of project limits and is not impacted. No roadway runoff discharges into it. No BMP provided.**
33	**15.8**	**14**	**Wetland is upstream of improvements. No roadway runoff discharges into it. A retaining wall is proposed to minimize impact. Impacts are within existing ROW. No BMP provided.**
25	8.0	15	Storm sewers outlet to ditch/vegetative swale upstream of wetland
21	6.4	16	Storm sewer outlets 100 feet prior to wetland
19	**18.8**	**17**	**Stormwater is routed through regional detention basin prior to outletting into wetland. The basin was moved to the north out of wetland. No roadway runoff discharges directly into wetland. Basin overexcavated to provide stormwater retention**
10	5.6	24	Storm sewer outlets to ditch/vegetative swale upstream of wetland
8	12.2	25	Storm sewer outlets to ditch/vegetative swale upstream of wetland. Permanent ditch checks also provided for retention.
W4	-	25-27	Permanent ditch checks for retention
2	3.5	30-31	Permanent ditch checks for retention. Stormwater is routed through regional detention basin. Basin overexcavated to provide stormwater retention

S:\WP\p&es\CONSULT\Projects - Active\IL 131 from Russell to Sunset\Correspondence\USACOE\2017-01-05 USACE #2\[BMP Table.xlsx]Sheet1

TRIBUTARY AREA DESIGNATION	MEASURED AREA (ACRES)
1-1	1.06
2-1	1.77
2-2	0.38
3-1	2.06
3-2	0.36
4-1	20.37
4-3	0.61



1. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN

BMP Exhibits
February 2017

- USACE Jurisdictional WOUS or Wetland
- Impacted Wetland or WOUS
- Proposed BMP

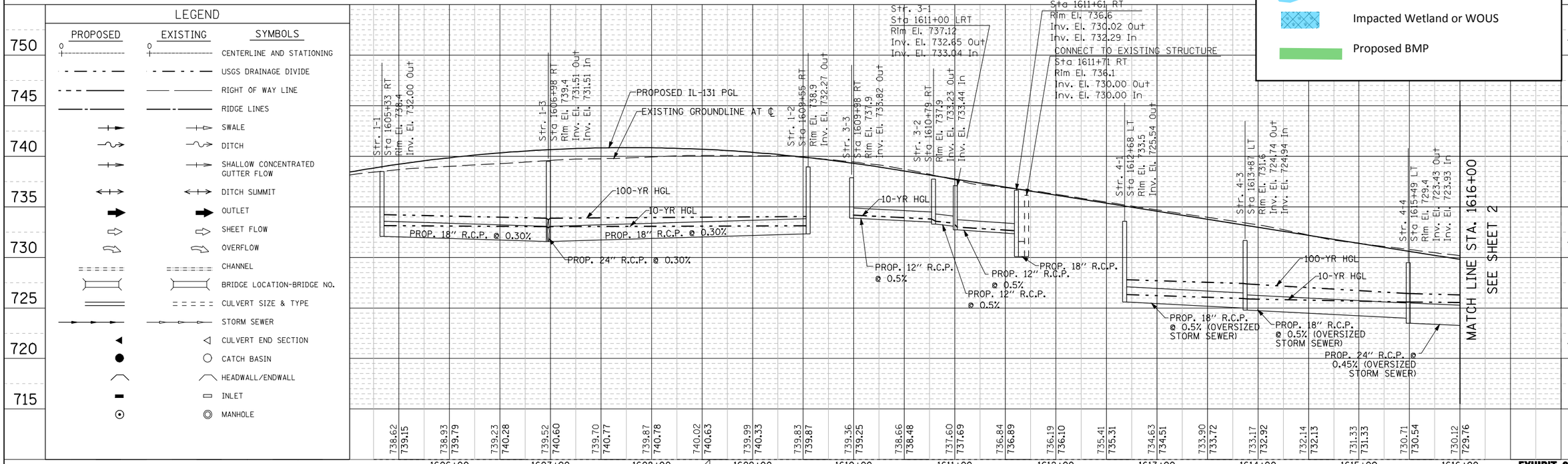


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-01.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
	PLOT SCALE = 100:1	CHECKED - MAM	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

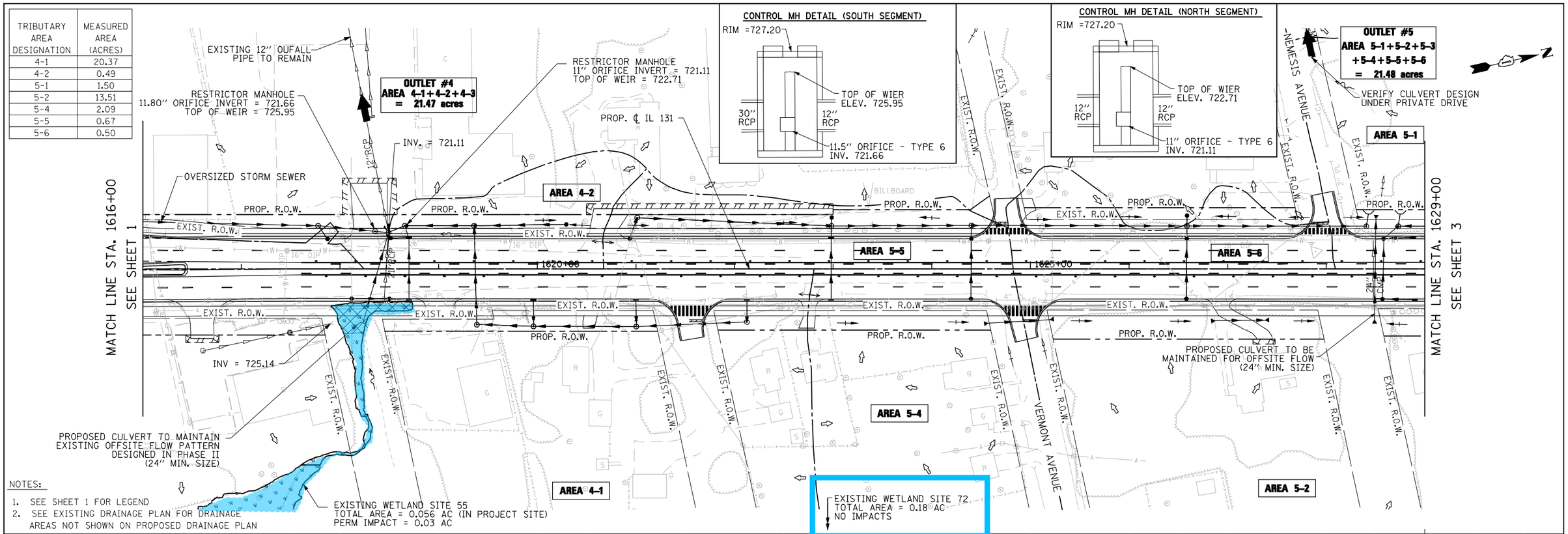
SCALE: 1"=50' | SHEET NO. 1 OF 32 SHEETS | STA. | TO STA. 1616+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	1
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE 10/09

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | S.M. NOTED | STRUCTURE NOTAT'NS CHK'D | NOTE BOOK NO. | BY | DATE

TRIBUTARY AREA DESIGNATION	MEASURED AREA (ACRES)
4-1	20.37
4-2	0.49
5-1	1.50
5-2	13.51
5-4	2.09
5-5	0.67
5-6	0.50



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN

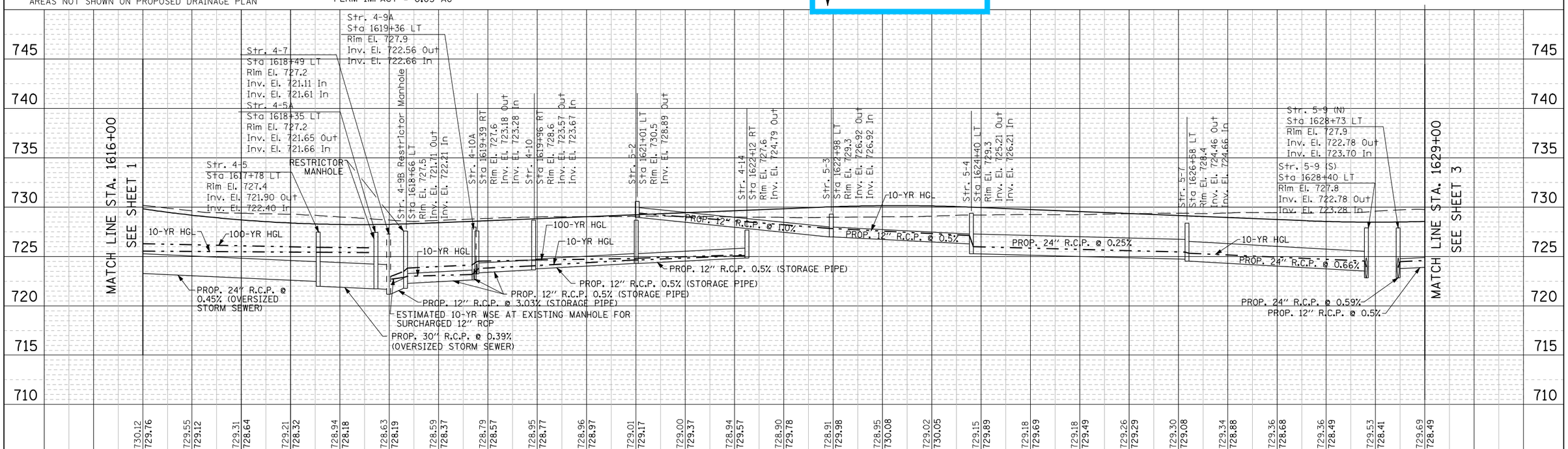


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-02.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 07-FEB-2017	CHECKED -	REVISED -

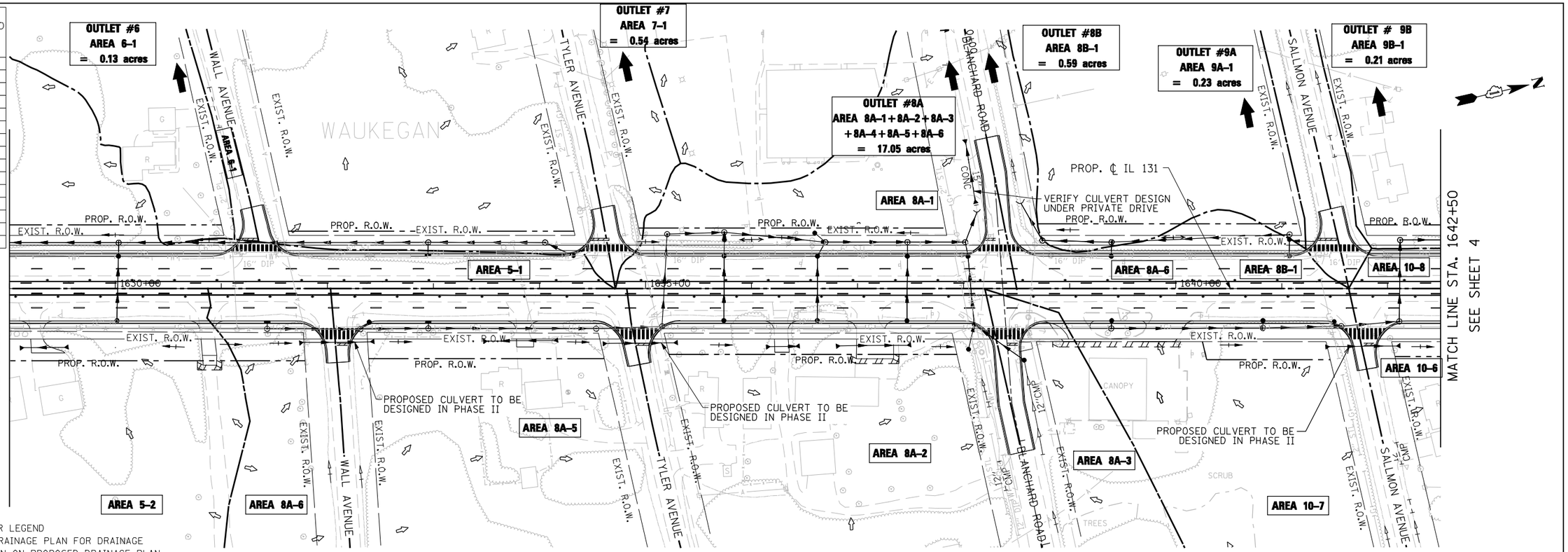
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 2 OF 32 SHEETS | STA. 1616+00 TO STA. 1629+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	2
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
5-1	1.50
5-2	13.51
6-1	0.13
7-1	0.54
8A-1	1.19
8A-2	6.62
8A-3	1.79
8A-5	4.40
8A-6	1.13
8B-1	0.59
9A-1	0.23
9B-1	0.21
10-6	5.69
10-7	1.90
10-8	3.66



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

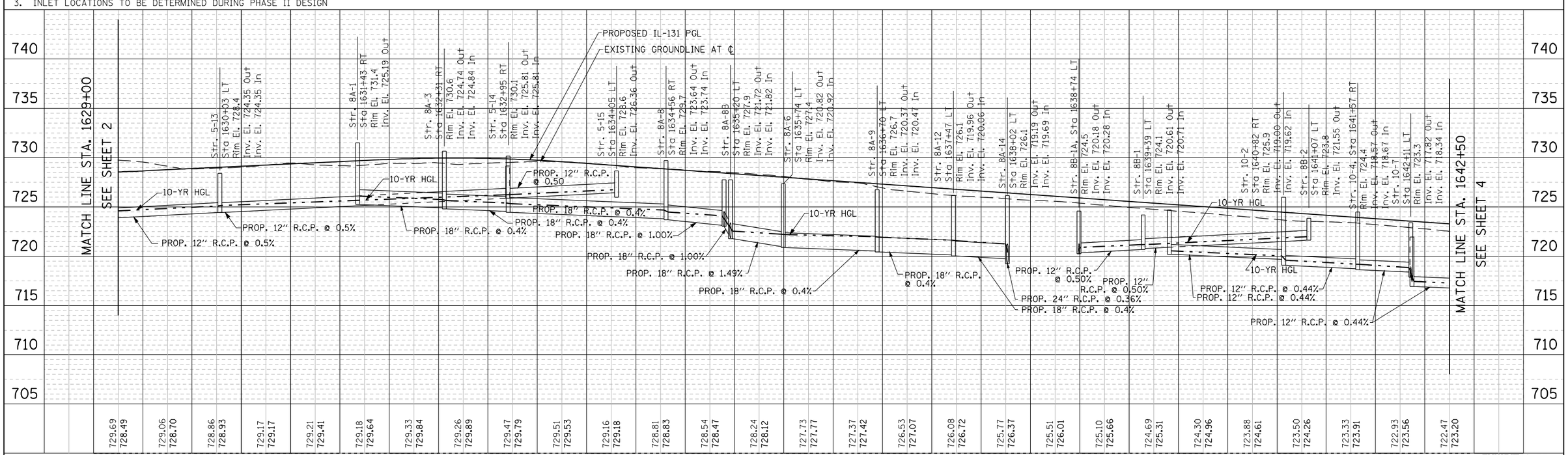


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-03.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

DESIGNED BY: HNTB

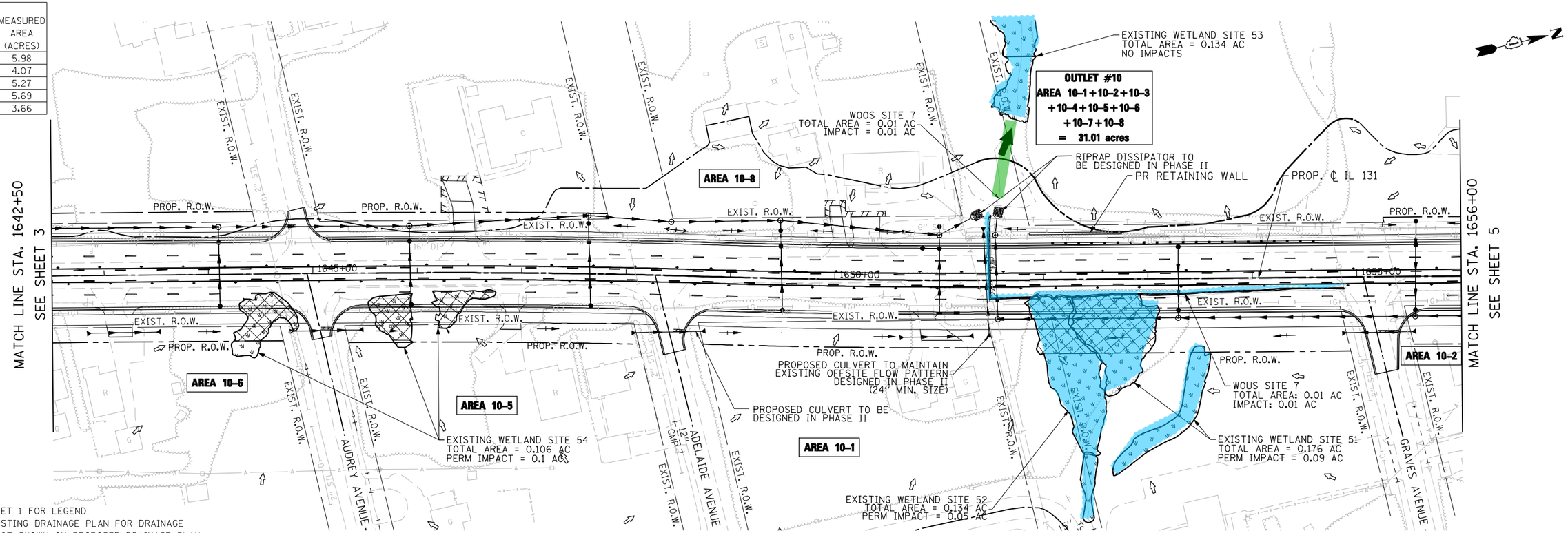
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 3 OF 32 SHEETS | STA. 1629+00 TO STA. 1642+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	3
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
10-1	5.98
10-2	4.07
10-5	5.27
10-6	5.69
10-8	3.66



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

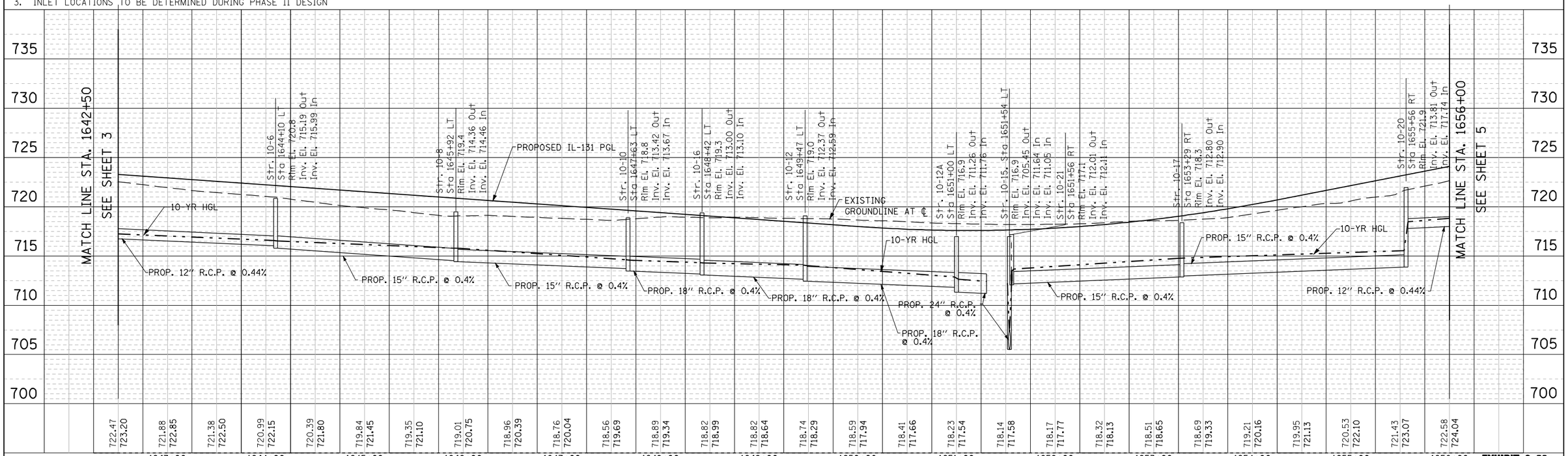


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-04.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
	PLOT SCALE = 100:1	CHECKED - MAM	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 07-FEB-2017	DRAWN - PMS	REVISED -
		CHECKED -	REVISED -

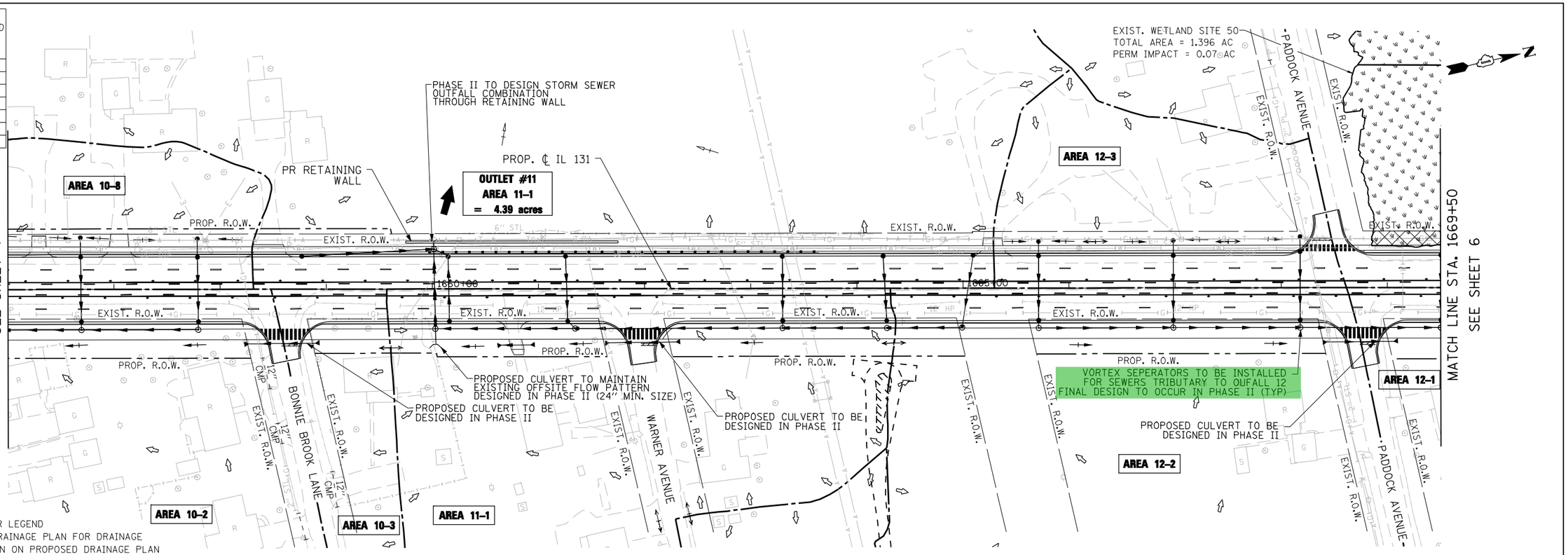
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 4 OF 32 SHEETS | STA. 1642+50 TO STA. 1656+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	4
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
10-2	4.07
10-3	0.90
10-8	3.66
11-1	4.39
12-1	3.58
12-2	4.36
12-3	1.13



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

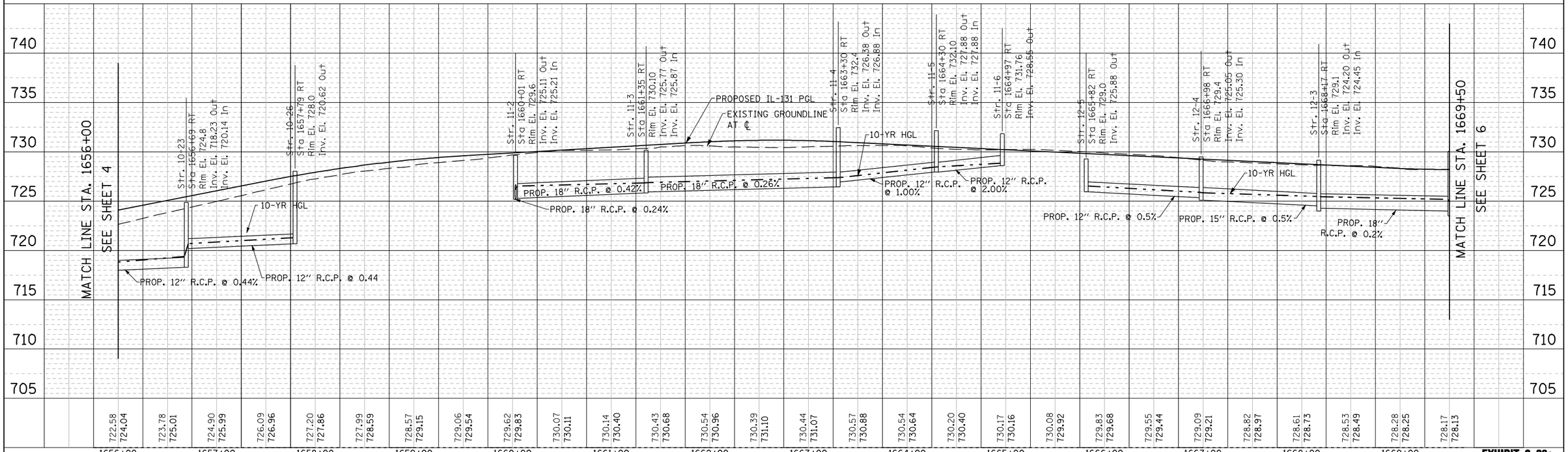


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-05.dgn

DESIGNED BY: HNTB

USER NAME = mamiller	DESIGNED - PMS	REVISED -
	CHECKED - MAM	REVISED -
PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

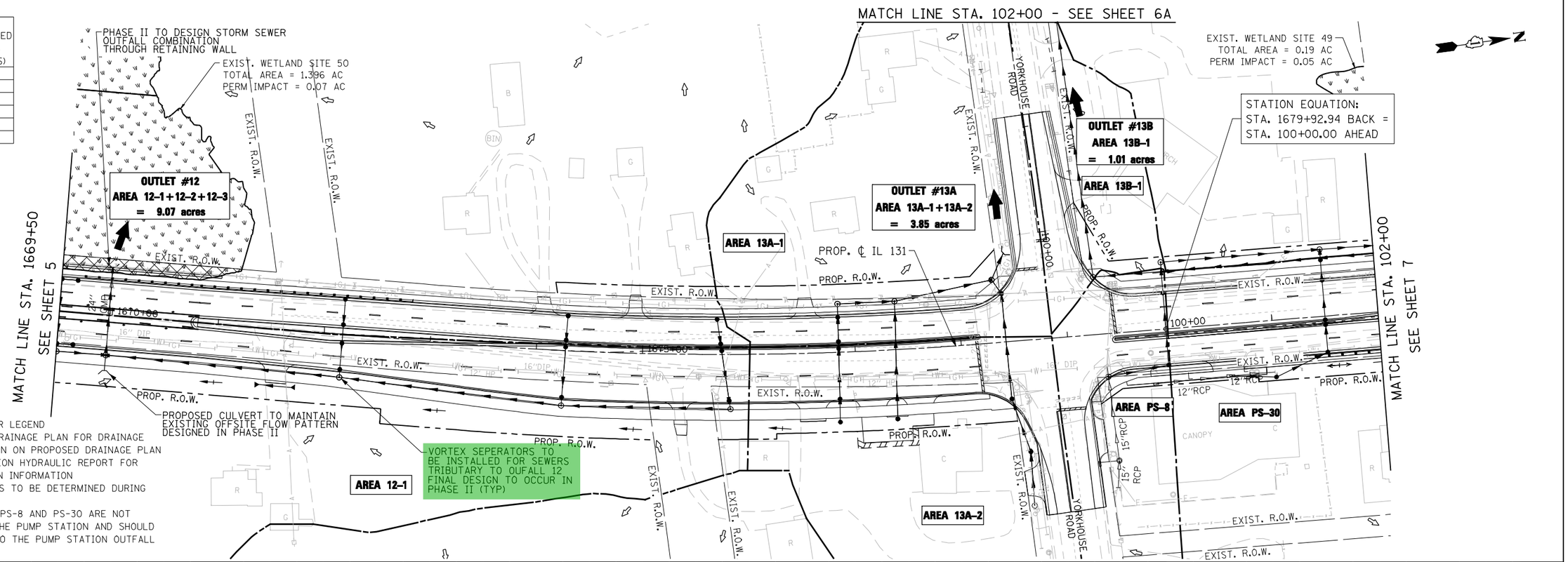
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 5 OF 32 SHEETS | STA. 1656+00 TO STA. 1669+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	5
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
12-1	3.58
13A-1	2.45
13A-2	1.40
13B-1	1.01
PS-8	0.71
PS-30	6.20



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. SEE PUMP STATION HYDRAULIC REPORT FOR RELEVANT DESIGN INFORMATION
4. INLET LOCATIONS TO BE DETERMINED DURING PHASE II
5. DRAINAGE AREA PS-8 AND PS-30 ARE NOT TRIBUTARY TO THE PUMP STATION AND SHOULD BE CONNECTED TO THE PUMP STATION OUTFALL PIPE

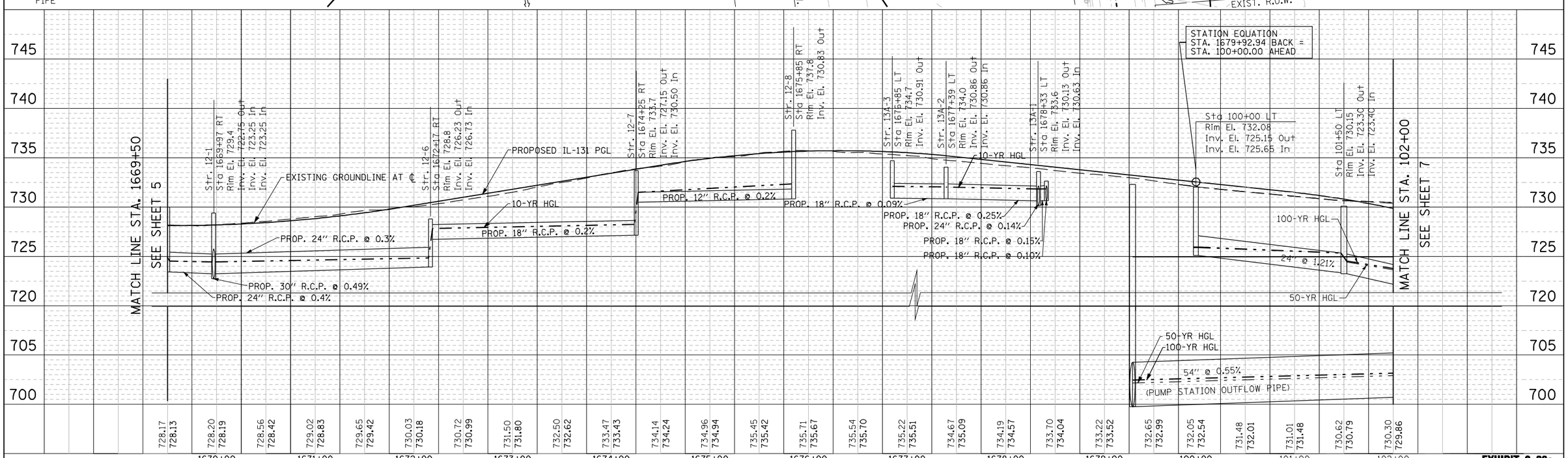


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-06.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 6 OF 32 SHEETS | STA. 1669+50 TO STA. 1682+00

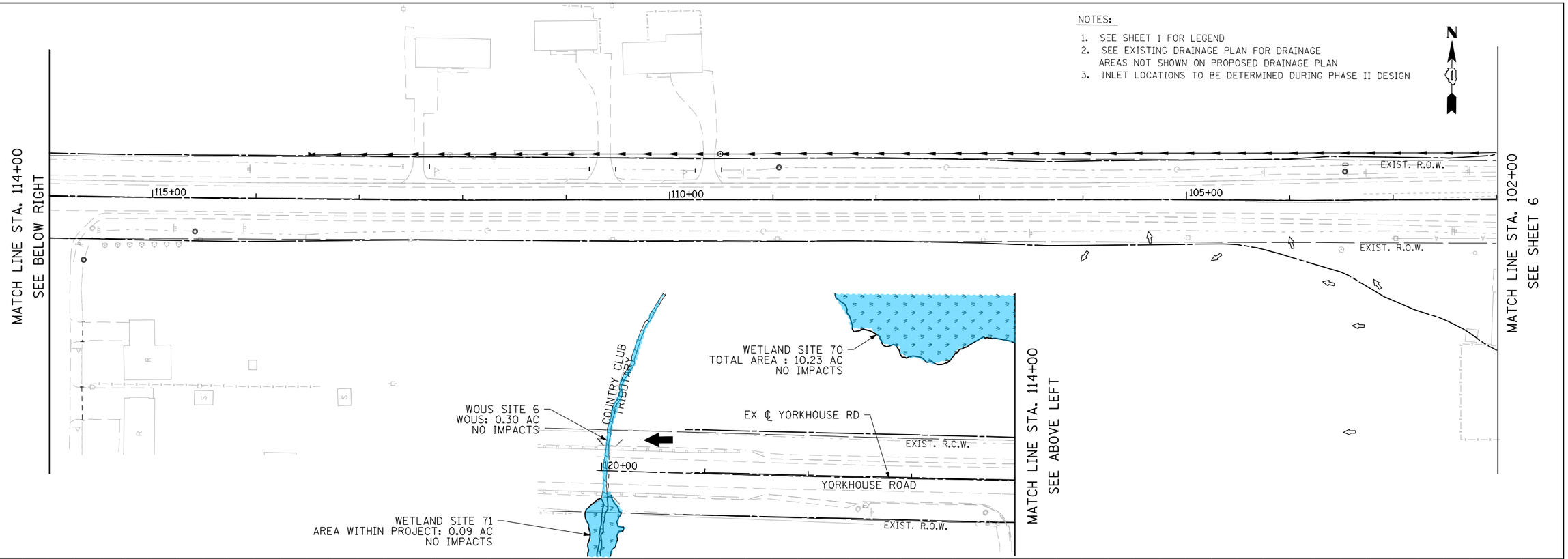
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	6
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE 10/09

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BLDG NOTED / STRUCTURE NOTAT'NS CHKD — NOTE BOOK NO. — BY — DATE

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN



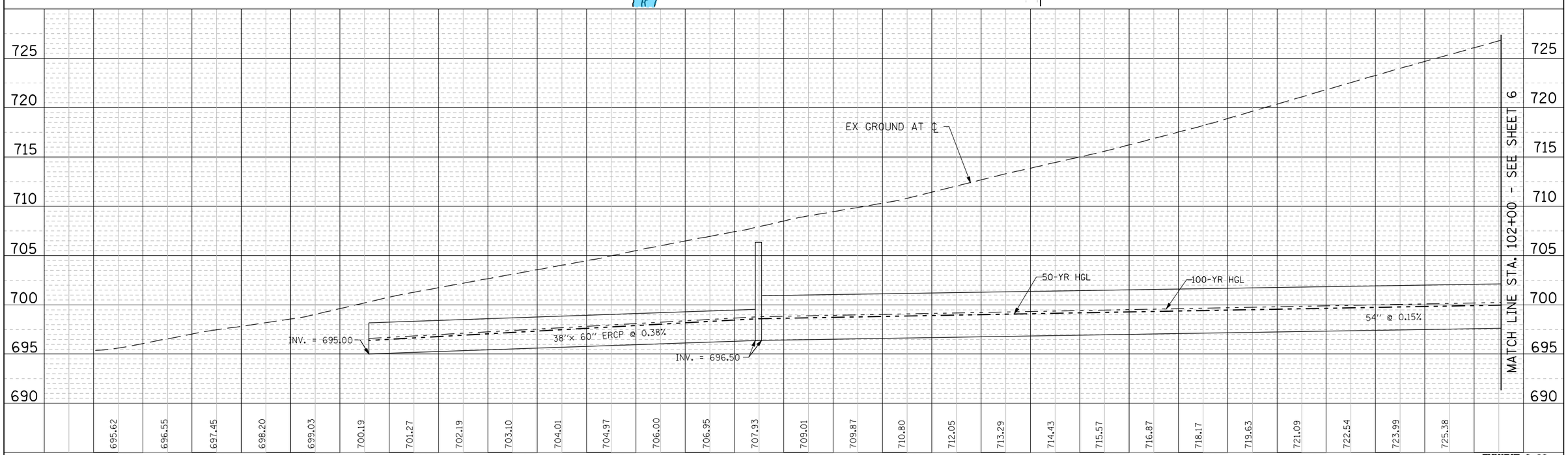


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-6A.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 16-FEB-2017	CHECKED -	REVISED -

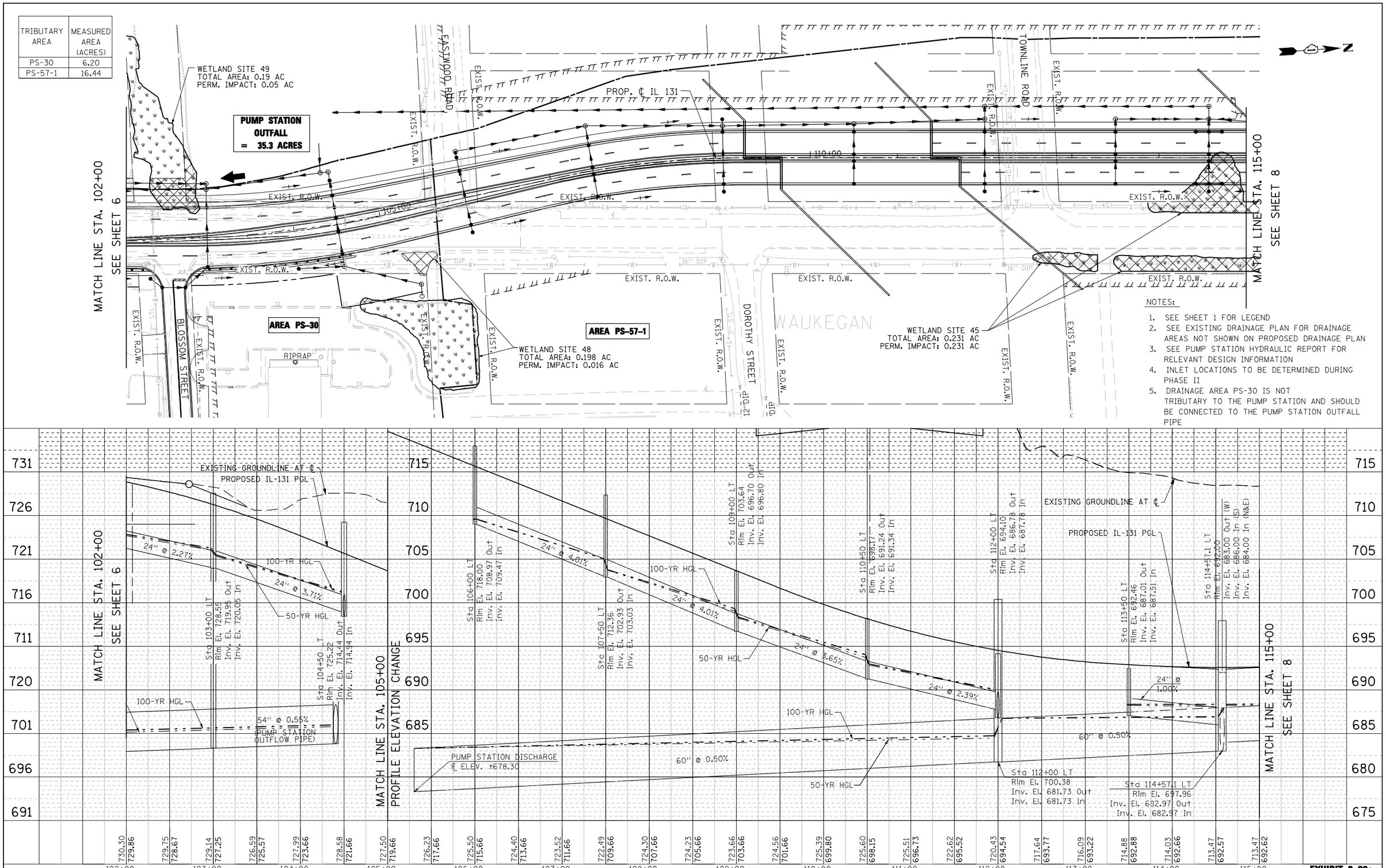
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 6 OF 32 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	6A
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
PS-30	6.20
PS-57-1	16.44



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. SEE PUMP STATION HYDRAULIC REPORT FOR RELEVANT DESIGN INFORMATION
4. INLET LOCATIONS TO BE DETERMINED DURING PHASE II
5. DRAINAGE AREA PS-30 IS NOT TRIBUTARY TO THE PUMP STATION AND SHOULD BE CONNECTED TO THE PUMP STATION OUTFALL PIPE

EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWPidms07699\D146103-IL131-sht-drain-plnprf-07.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
	PLOT SCALE = 100:1	CHECKED - MAM	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 7 OF 32 SHEETS | STA. 1682+00 TO STA. 1695+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	7
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
PS-57-1	16.44
PS-57-2	3.40
PS-89-1	2.88
PS-89-2	2.44
PS-74	1.42

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. SEE PUMP STATION HYDRAULIC REPORT FOR RELEVANT DESIGN INFORMATION

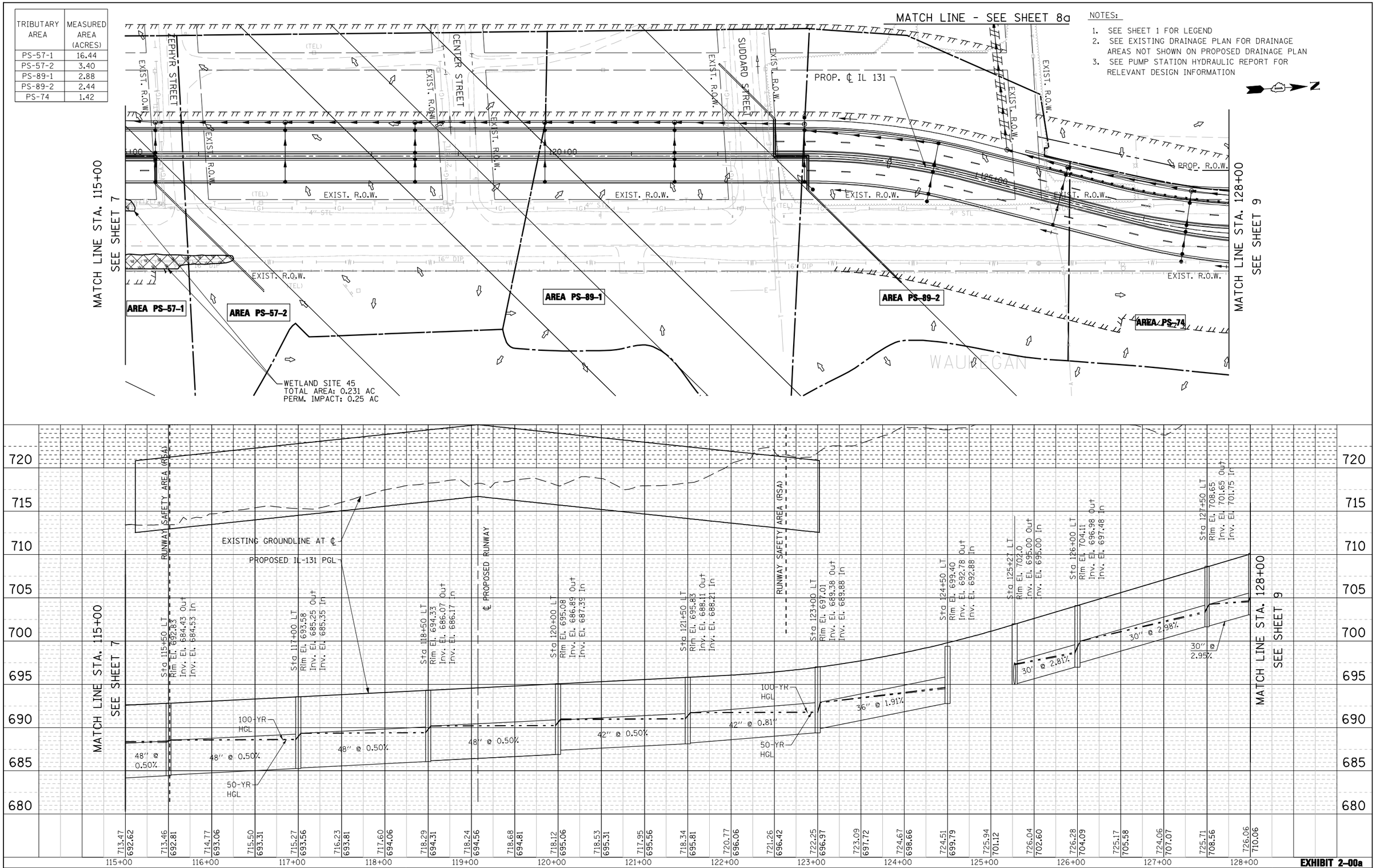


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CH'KD		
NOTE BOOK NO.		

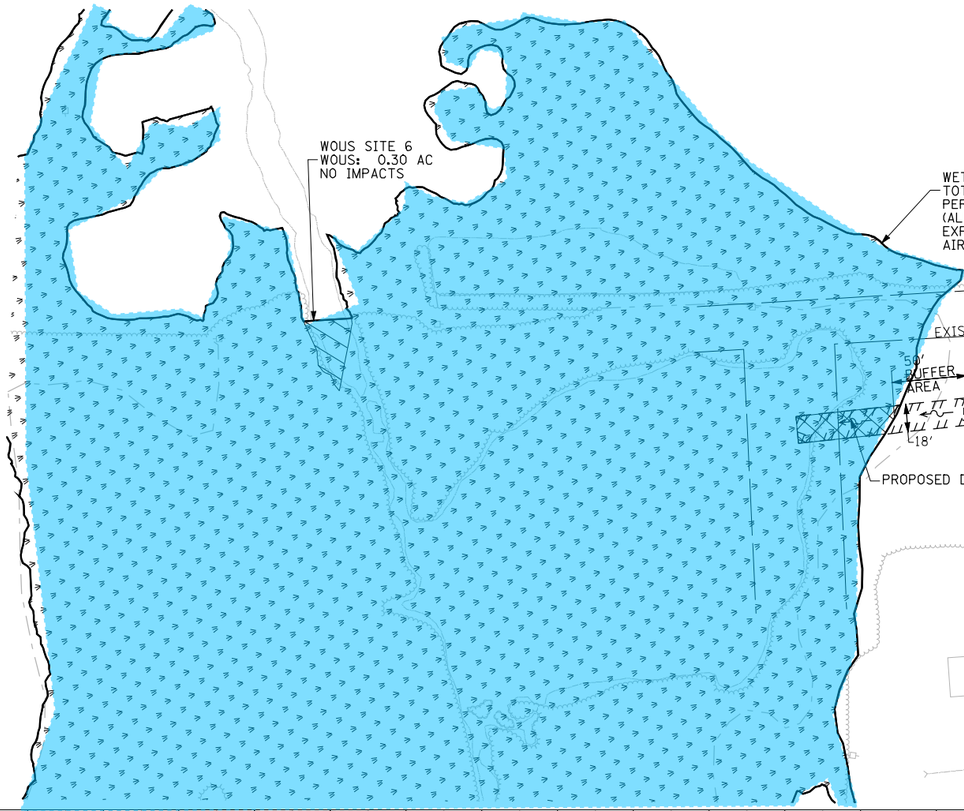
FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-08.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
	PLOT SCALE = 100:1	CHECKED - MAM	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

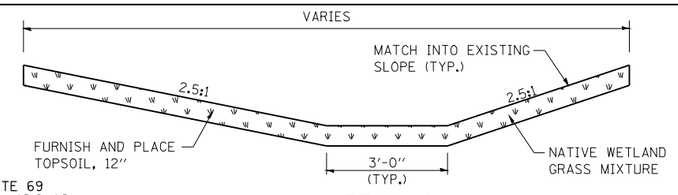
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 8 OF 32 SHEETS | STA. 1695+00 TO STA. 1708+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	8
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

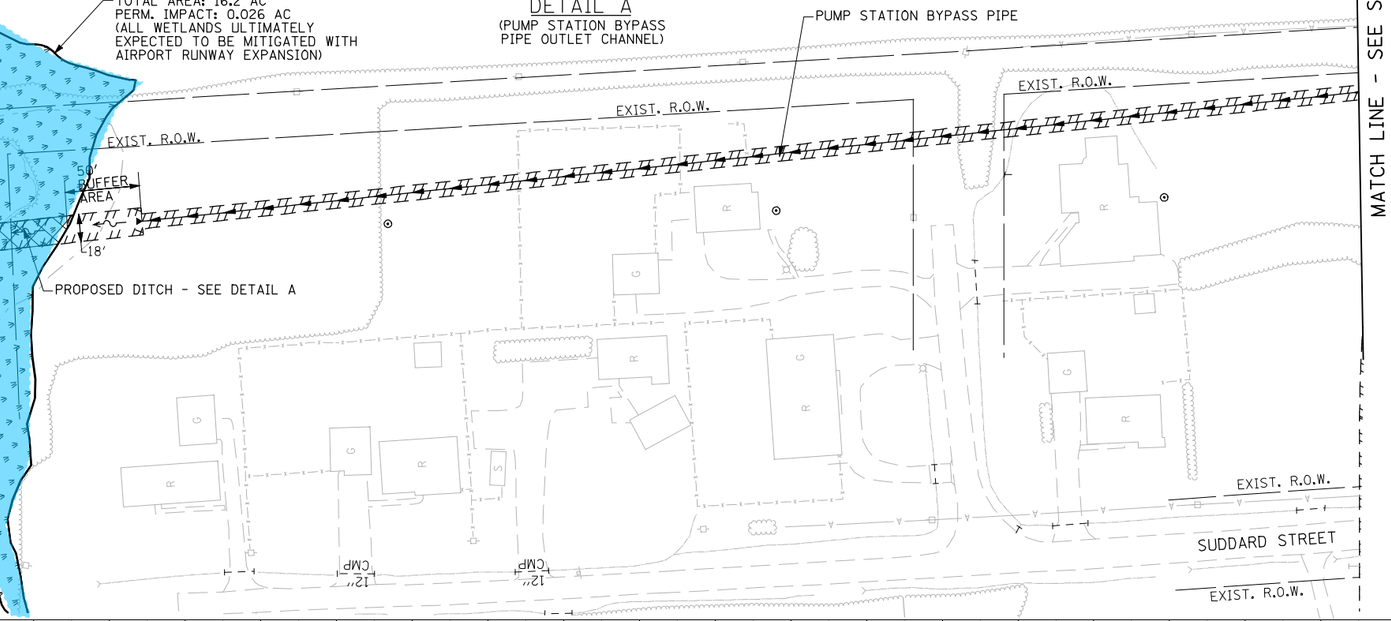


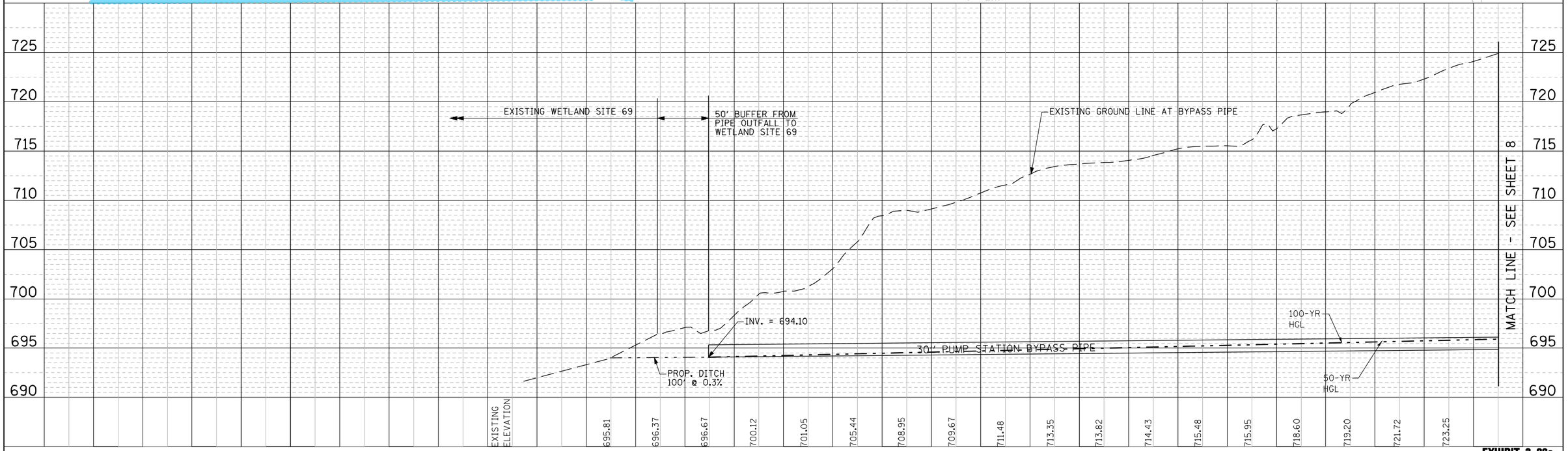


DETAIL A
(PUMP STATION BYPASS PIPE OUTLET CHANNEL)

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. SEE PUMP STATION HYDRAULIC REPORT FOR RELEVANT DESIGN INFORMATION
4. ALL ADJACENT AREA TO BE ACQUIRED BY WAUKEGAN NATIONAL AIRPORT





PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLM NOTED		
STRUCTURE NOTATINS CHKD		
NOTE BOOK NO.		

EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-08a.dgn	USER NAME = mamiller	DESIGNED - MH	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - MH	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 07-FEB-2017	CHECKED -	REVISED -

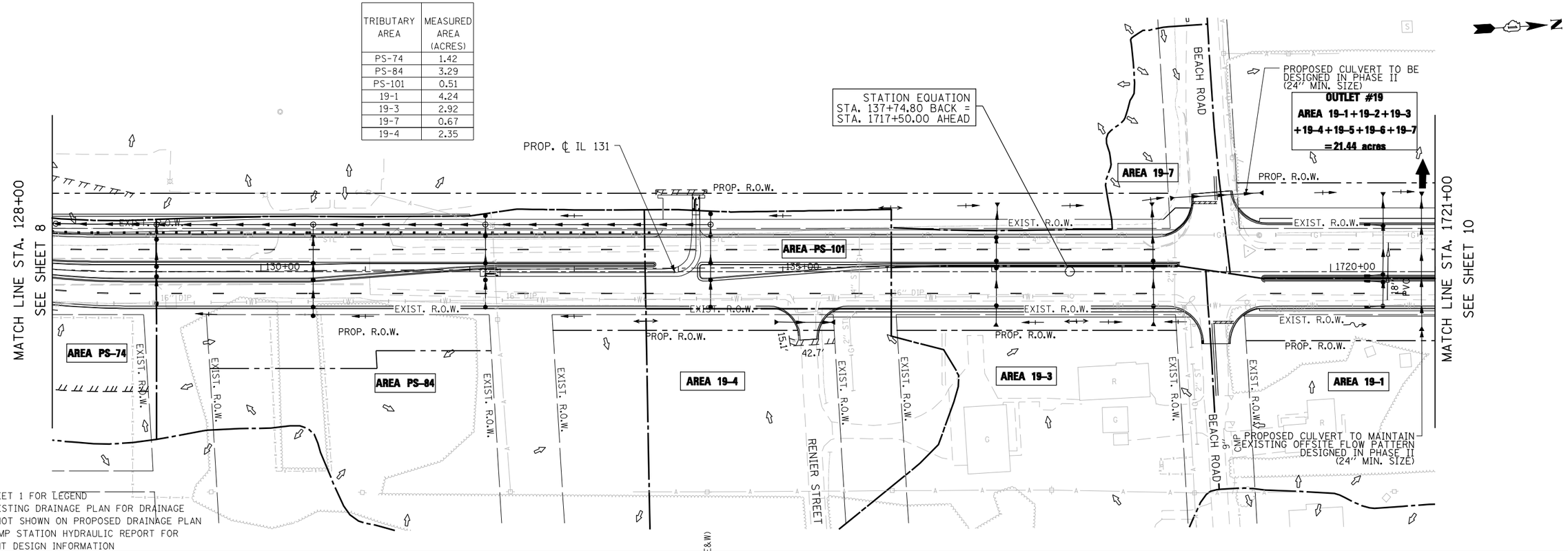
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 8 OF 32 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	8a
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
PS-74	1.42
PS-84	3.29
PS-101	0.51
19-1	4.24
19-3	2.92
19-7	0.67
19-4	2.35



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. SEE PUMP STATION HYDRAULIC REPORT FOR RELEVANT DESIGN INFORMATION

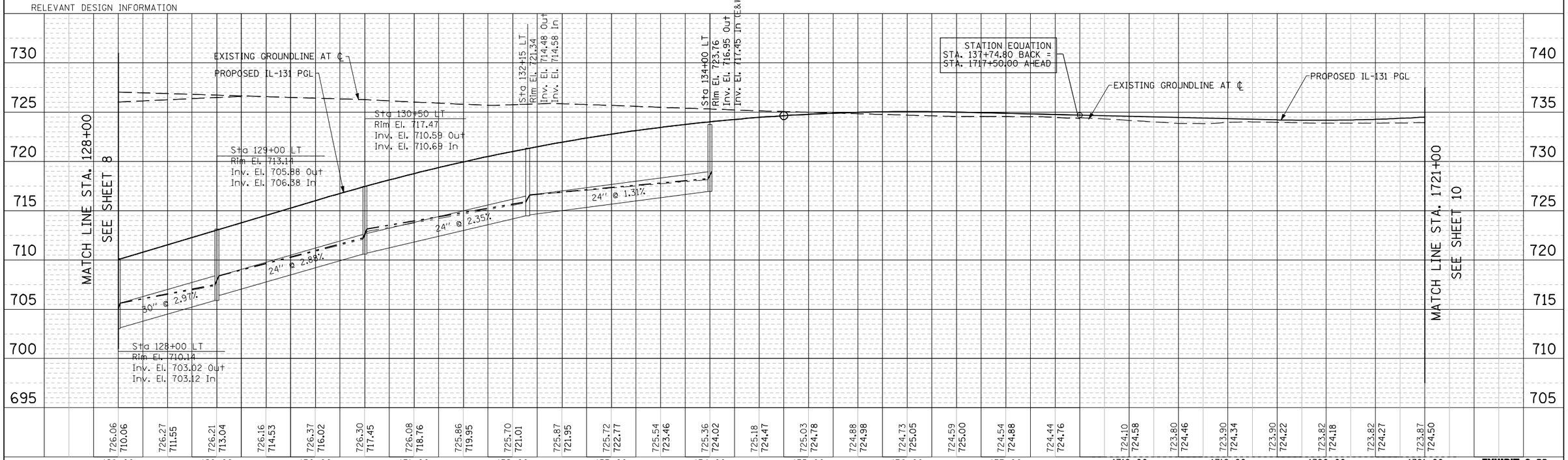


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-09.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

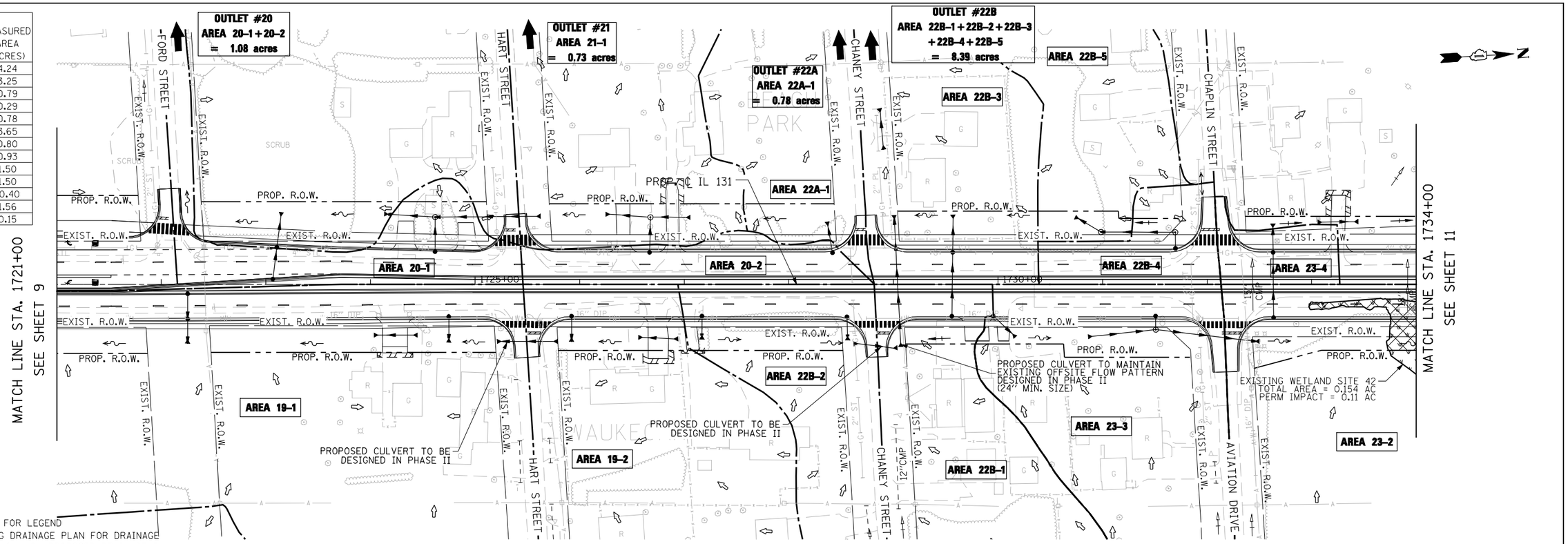
IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 9 OF 32 SHEETS | STA. 1708+00 TO STA. 1721+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	9
		CONTRACT NO.		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

TRIBUTARY AREA	MEASURED AREA (ACRES)
19-1	4.24
19-2	3.25
20-1	0.79
20-2	0.29
22A-1	0.78
22B-1	3.65
22B-2	0.80
22B-3	0.93
22B-4	1.50
22B-5	1.50
23-2	10.40
23-3	1.56
23-4	0.15



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

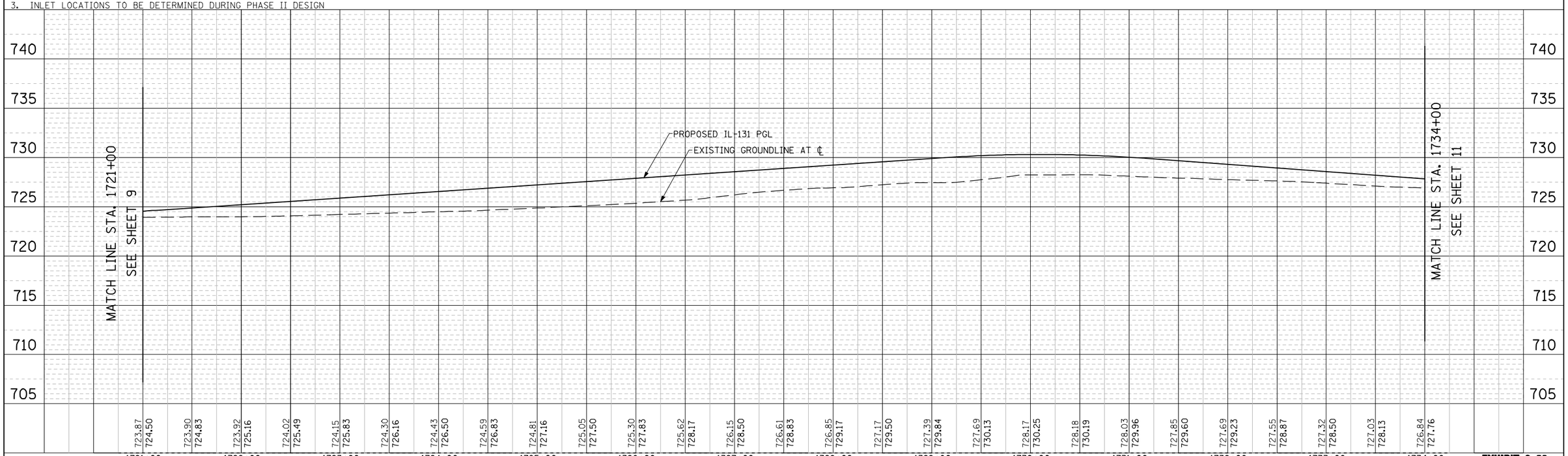


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-10.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

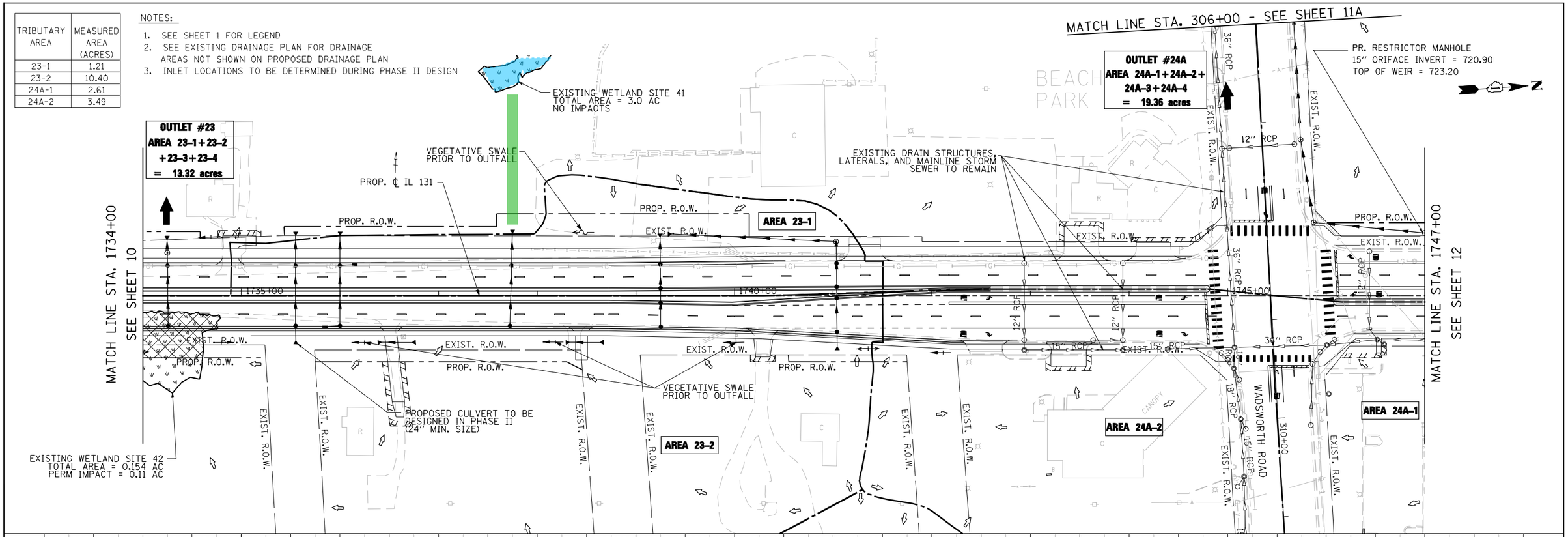
SCALE: 1"=50' | SHEET NO. 10 OF 32 SHEETS | STA. 1721+00 TO STA. 1734+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	10
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
23-1	1.21
23-2	10.40
24A-1	2.61
24A-2	3.49

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN



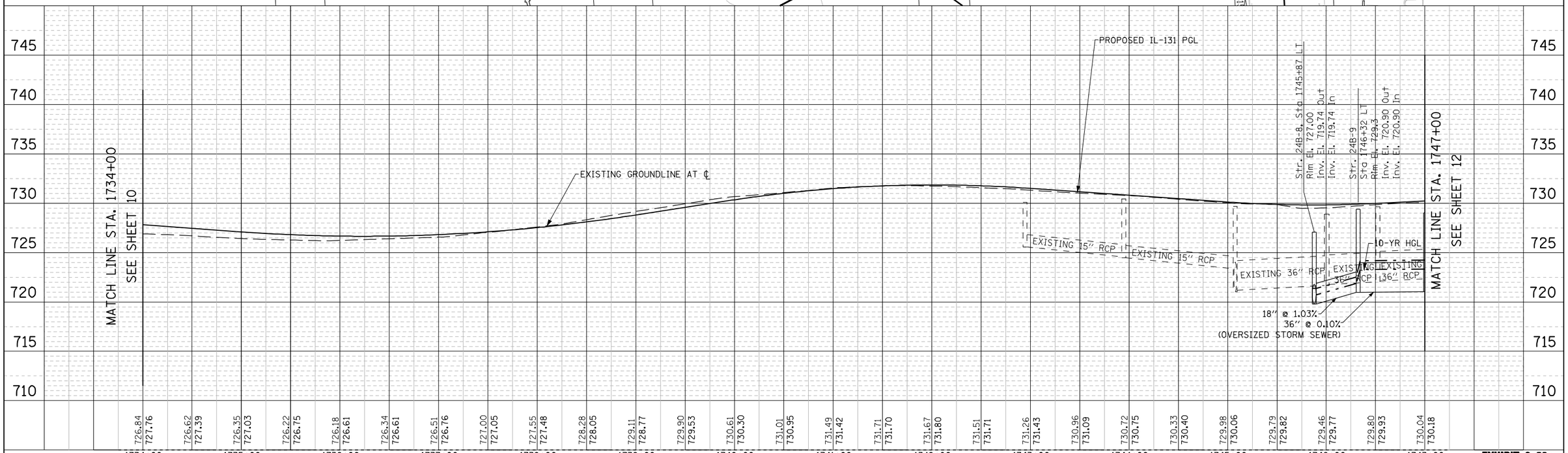


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.		

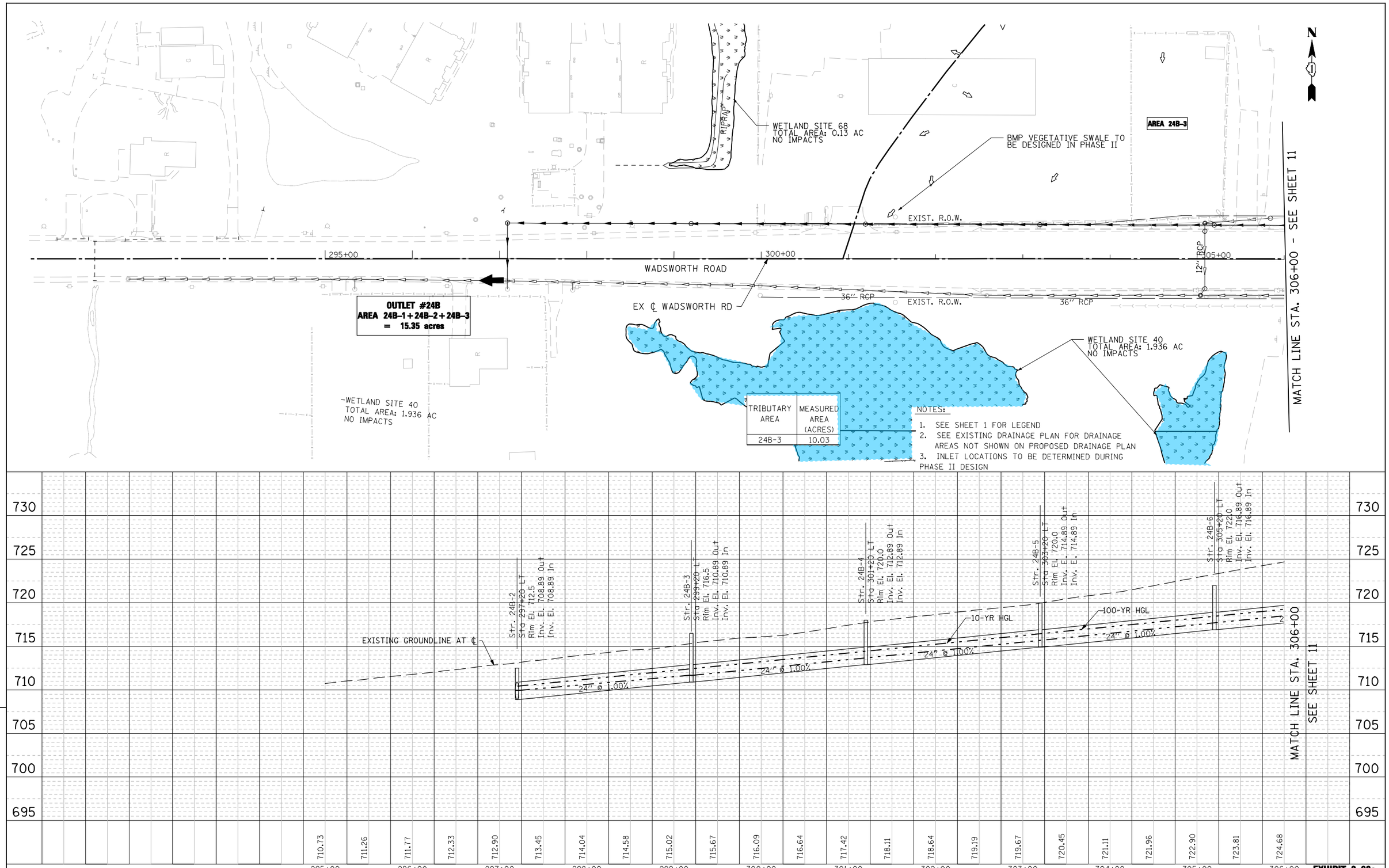
FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-11.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 11 OF 32 SHEETS | STA. 1734+00 TO STA. 1747+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	11
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRIBUTARY AREA	MEASURED AREA (ACRES)
24B-3	10.03

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE 10/09

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BLDG. NOTED / STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-11A.dgn	USER NAME = mamiller	DESIGNED - RLP	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - RLP	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

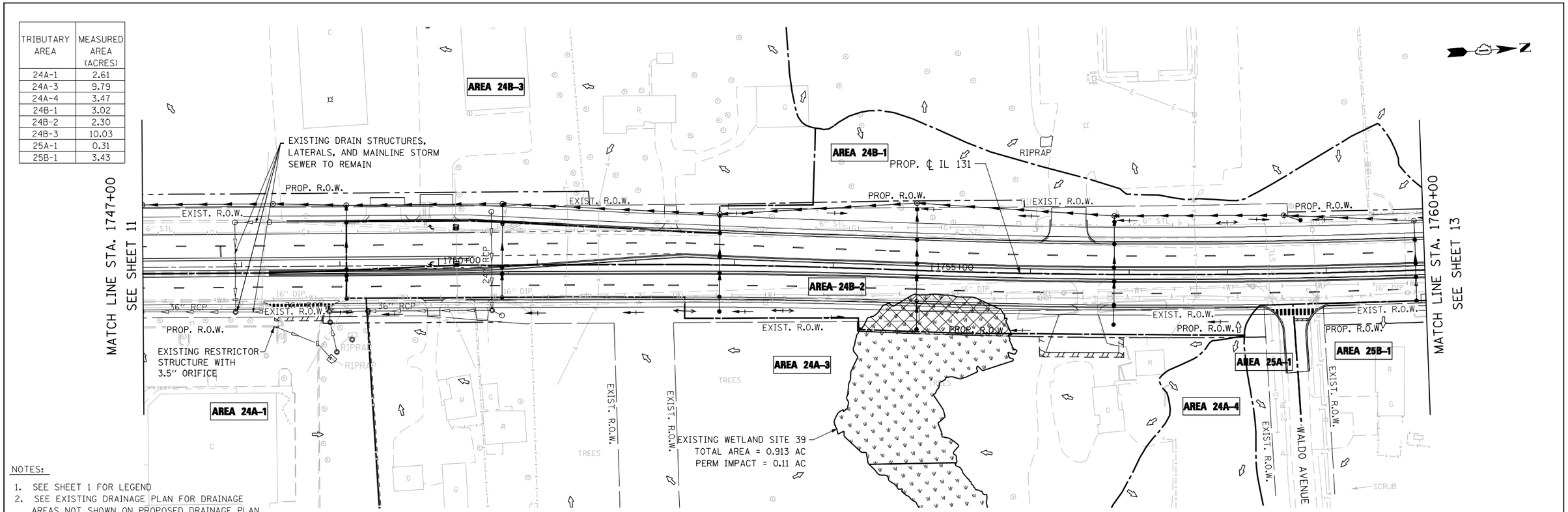
IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 11 OF 32 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	11A
		CONTRACT NO.		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

TRIBUTARY AREA	MEASURED AREA (ACRES)
24A-1	2.61
24A-3	9.79
24A-4	3.47
24B-1	3.02
24B-2	2.30
24B-3	10.03
25A-1	0.31
25B-1	3.43



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

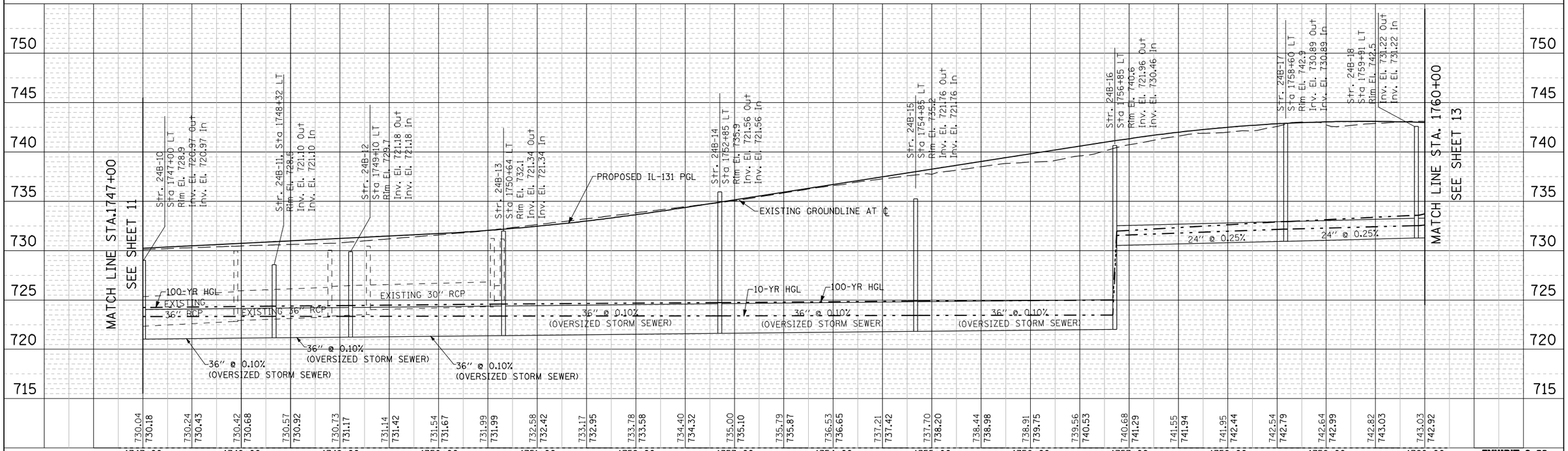


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-12.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

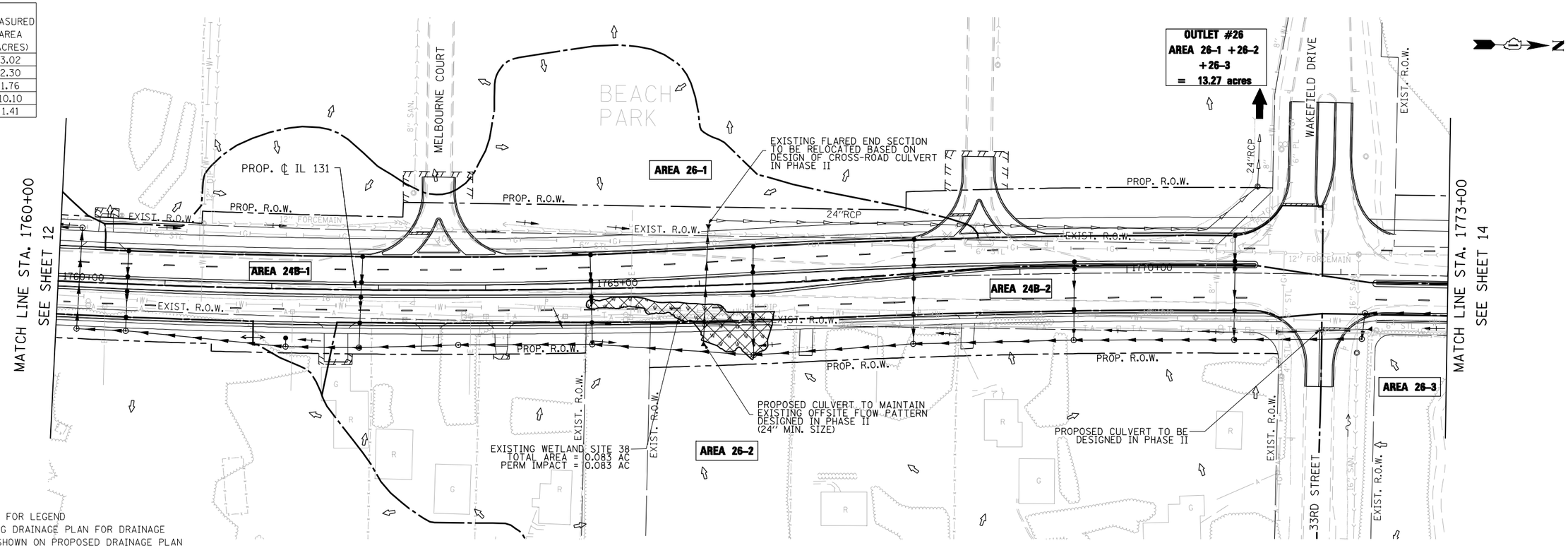
SCALE: 1"=50' | SHEET NO. 12 OF 32 SHEETS | STA. 1747+00 TO STA. 1760+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	12
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

TRIBUTARY AREA	MEASURED AREA (ACRES)
24B-1	3.02
24B-2	2.30
26-1	1.76
26-2	10.10
26-3	1.41



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

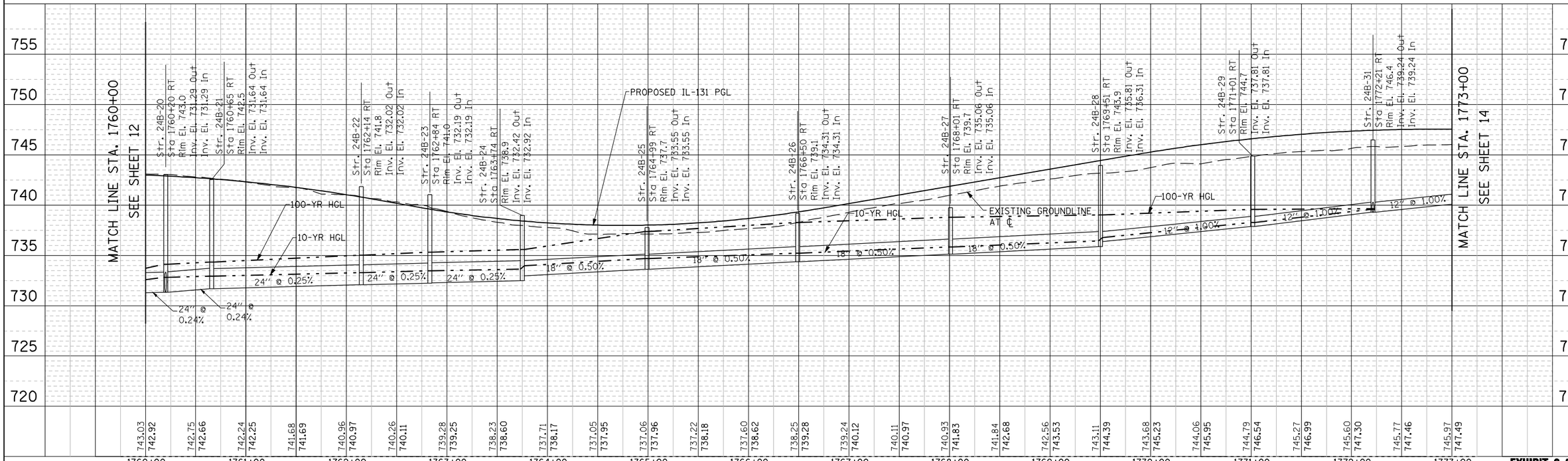


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-13.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

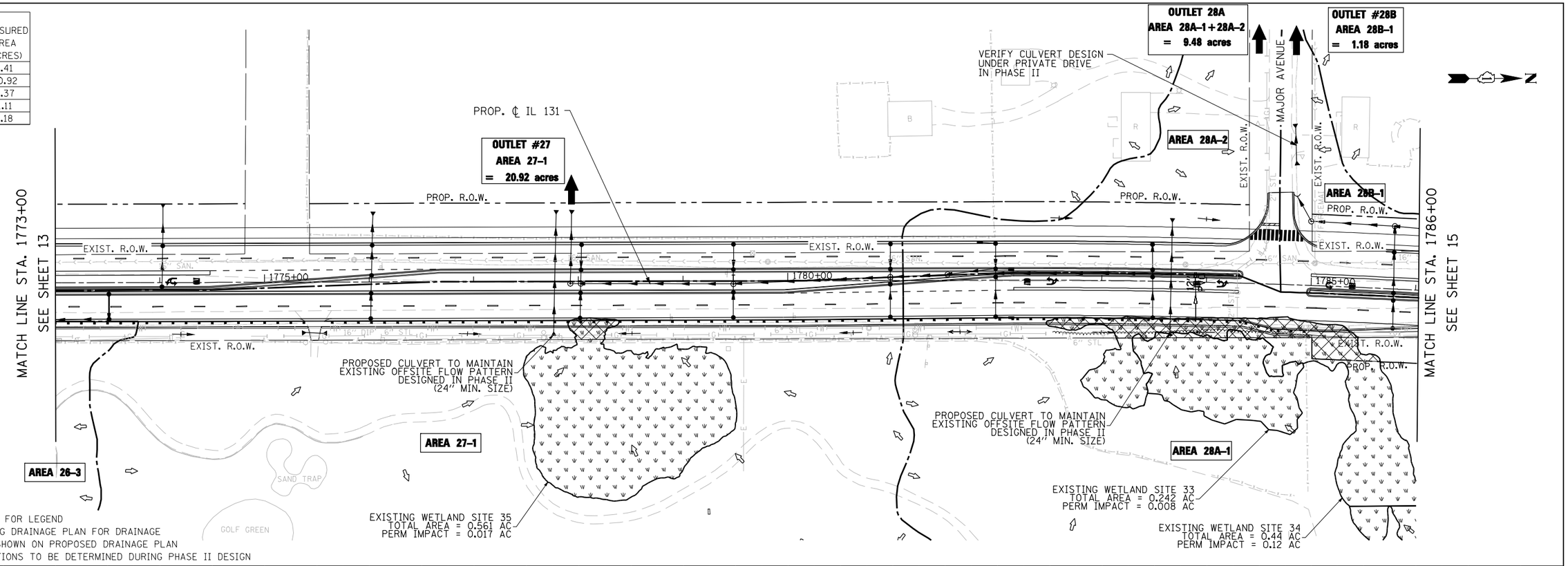
SCALE: 1"=50' | SHEET NO. 13 OF 32 SHEETS | STA. 1760+00 TO STA. 1773+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	13
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE 10/09

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BLDG NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

TRIBUTARY AREA	MEASURED AREA (ACRES)
26-3	1.41
27-1	20.92
28A-1	8.37
28A-2	1.11
28B-1	1.18



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

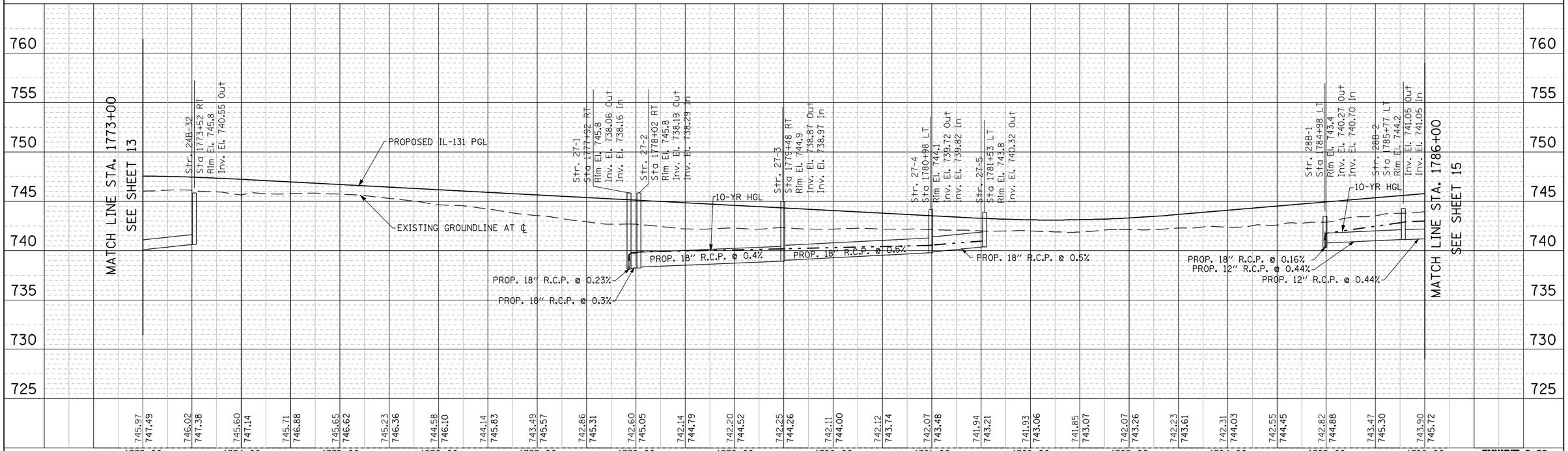


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-14.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
	PLOT SCALE = 100:1	CHECKED - MAM	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

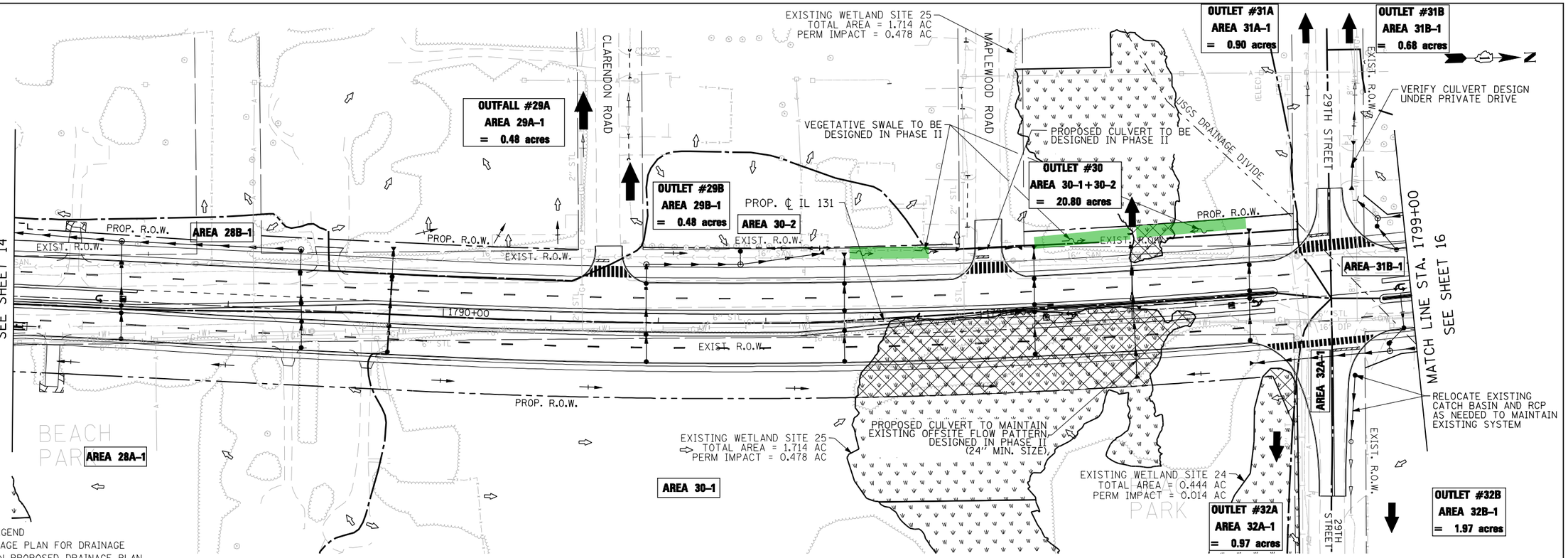
SCALE: 1"=50' | SHEET NO. 14 OF 32 SHEETS | STA. 1773+00 TO STA. 1786+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	14
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE 10/09

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BLM NOTED / STRUCTURE NOTAT'NS CHK'D / NOTE BOOK NO. / BY / DATE

TRIBUTARY AREA	MEASURED AREA (ACRES)
28A-1	8.37
28B-1	1.18
29A-1	0.48
29B-1	0.48
30-1	19.26
30-2	1.54
31A-1	0.90
31B-1	0.68
32A-1	0.97



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

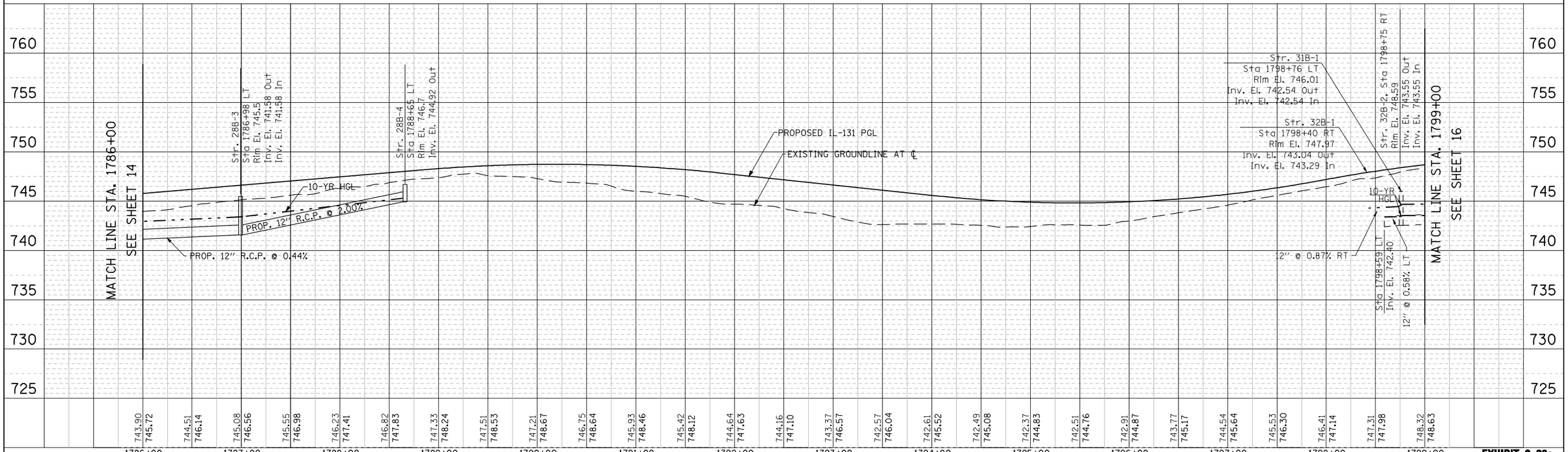


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-15.dgn	USER NAME = mamiller	DESIGNED - PMS	REVISED -
		CHECKED - MAM	REVISED -
	PLOT SCALE = 100:1	DRAWN - PMS	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

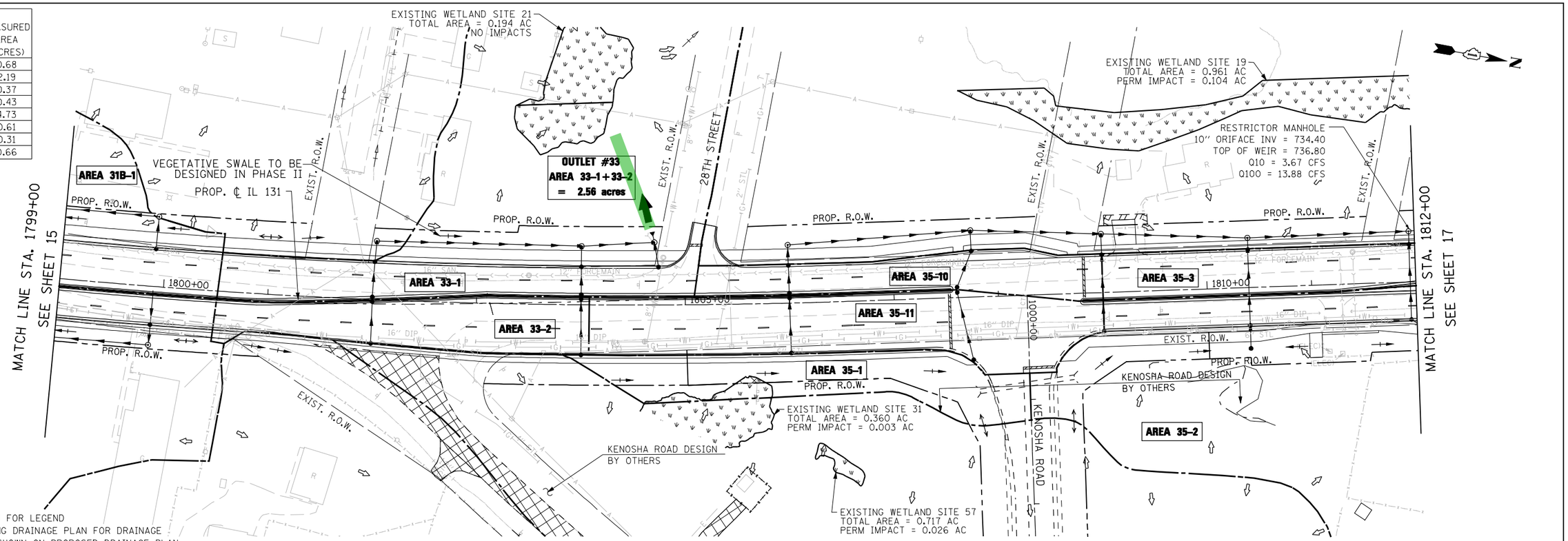
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 15 OF 32 SHEETS | STA. 1786+00 TO STA. 1799+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	15
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
31B-1	0.68
33-1	2.19
33-2	0.37
35-1	0.43
35-2	4.73
35-3	0.61
35-10	0.31
35-11	0.66



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

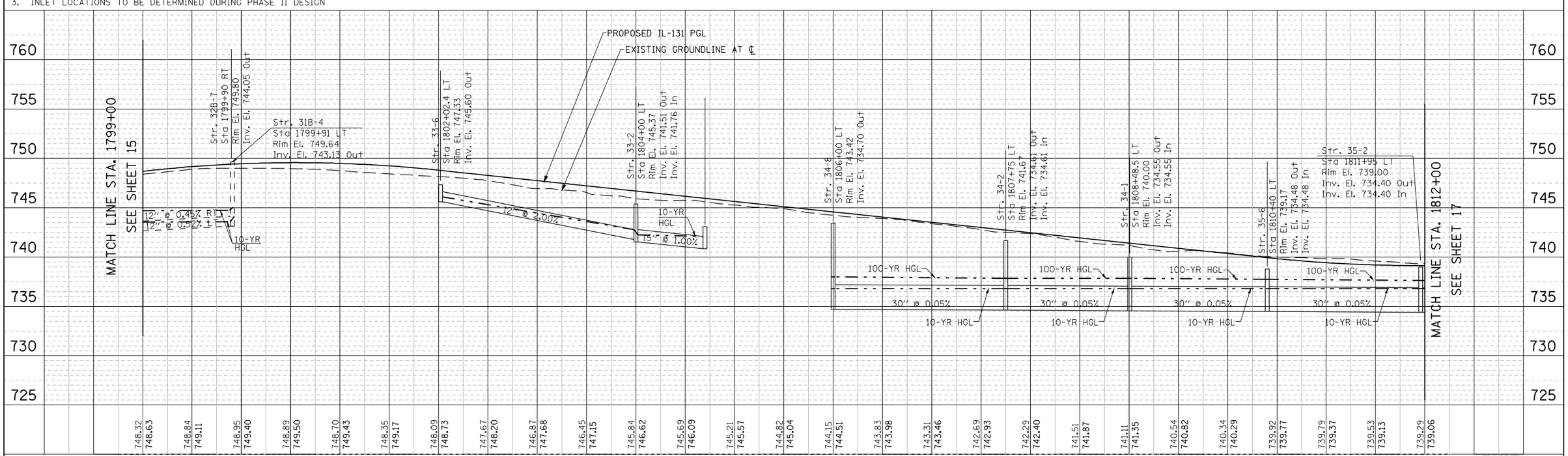


EXHIBIT 2-00a

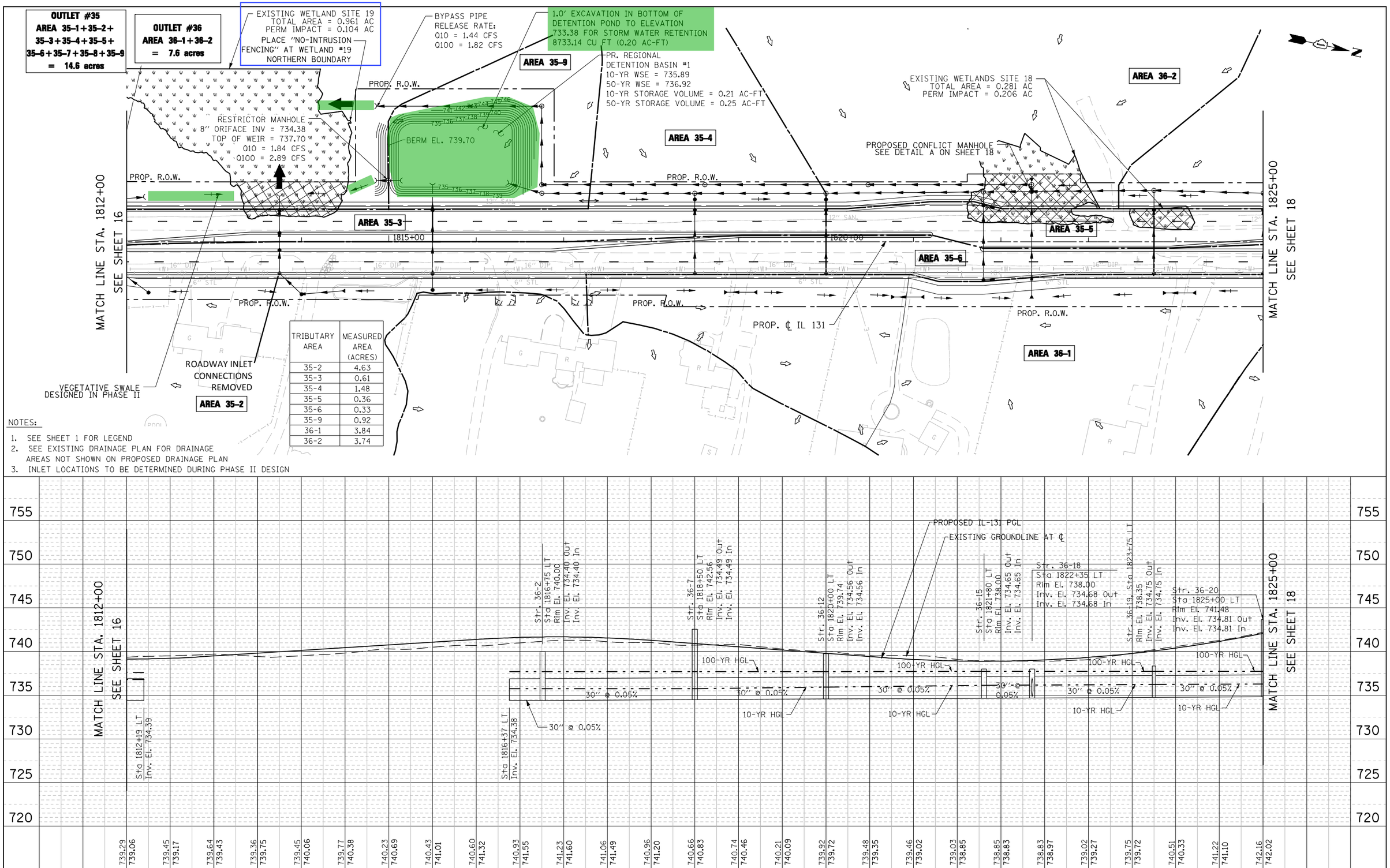
FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-16.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 16 OF 32 SHEETS | STA. 1799+00 TO STA. 1812+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	16
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRIBUTARY AREA	MEASURED AREA (ACRES)
35-2	4.63
35-3	0.61
35-4	1.48
35-5	0.36
35-6	0.33
35-9	0.92
36-1	3.84
36-2	3.74

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE 10/09

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BLDG. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK NO. / BY / DATE

EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-17.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

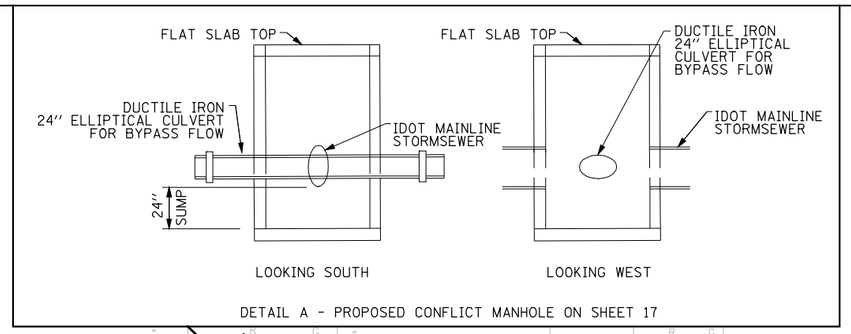
SCALE: 1"=50' | SHEET NO. 17 OF 32 SHEETS | STA. 1812+00 TO STA. 1825+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	17
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

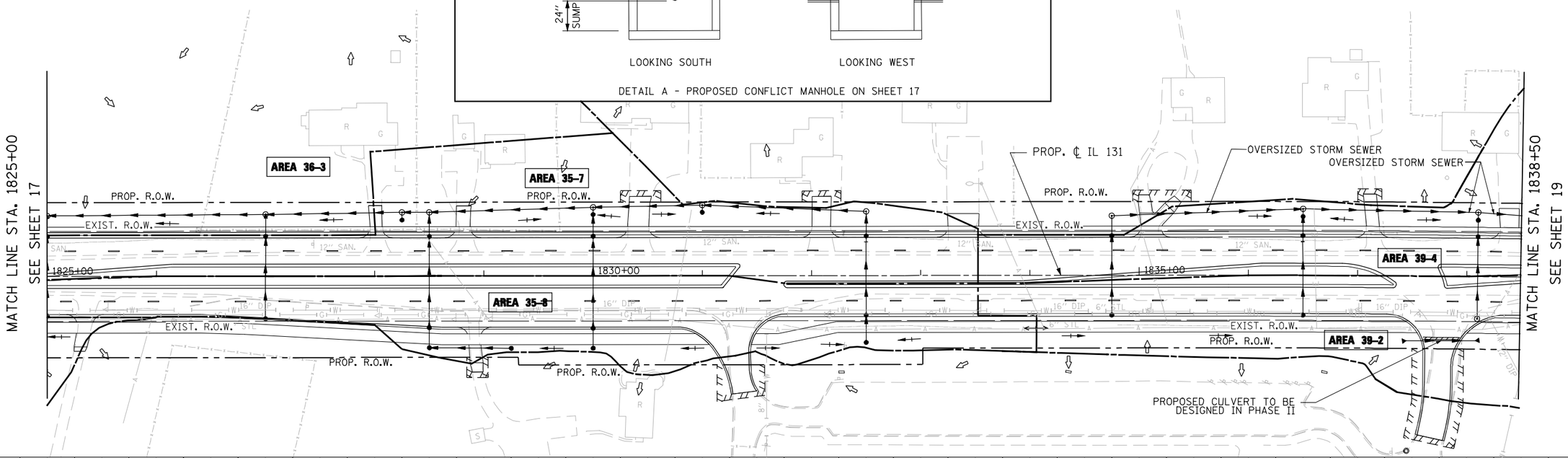
TRIBUTARY AREA	MEASURED AREA (ACRES)
35-7	4.60
35-8	1.29
39-2	7.96
39-4	2.89

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN



DETAIL A - PROPOSED CONFLICT MANHOLE ON SHEET 17



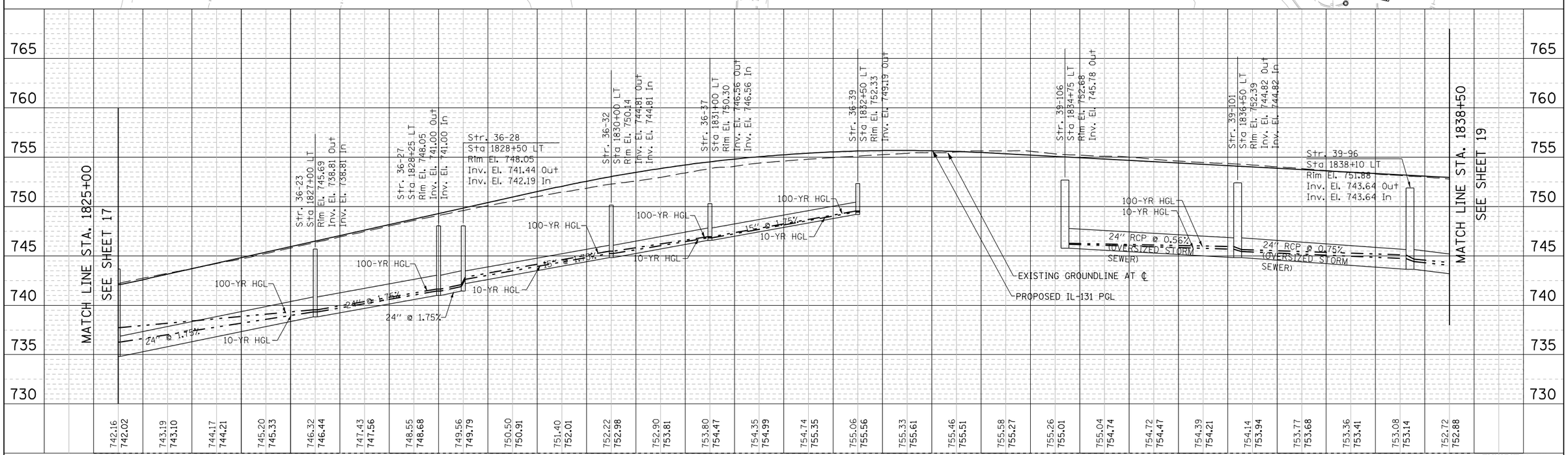


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLKS NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-18.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

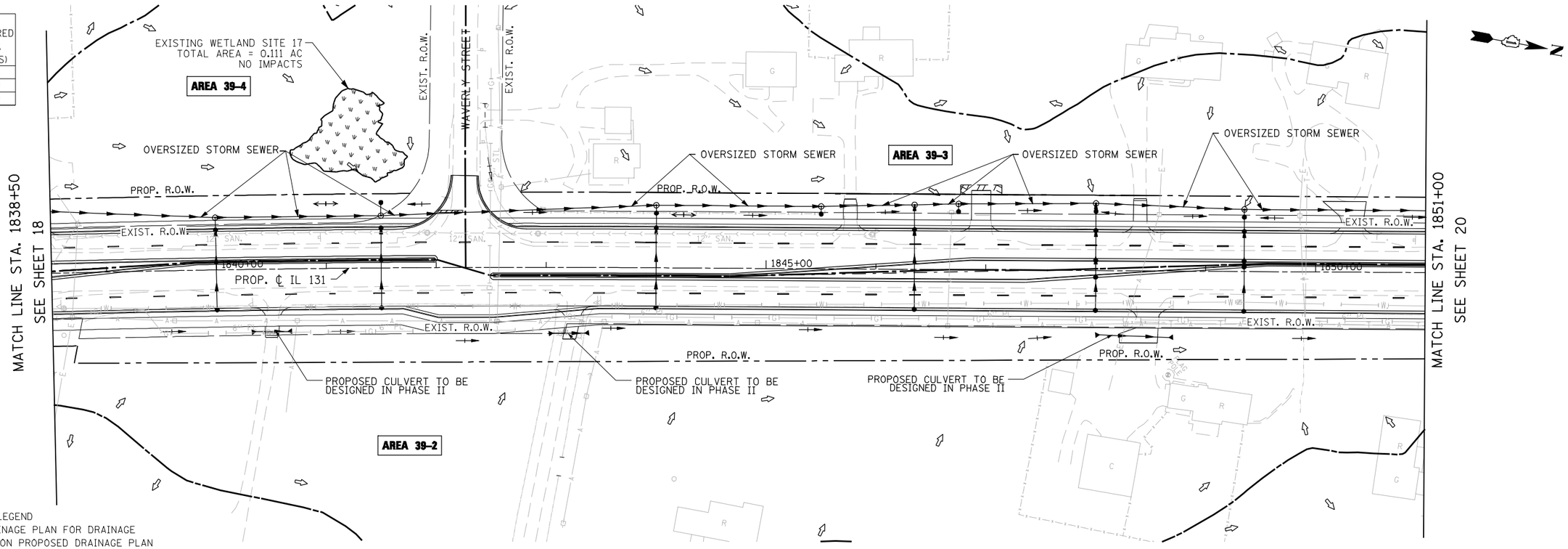
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 18 OF 32 SHEETS | STA. 1825+00 TO STA. 1838+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	18
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
39-2	7.96
39-3	4.69
39-4	2.89



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

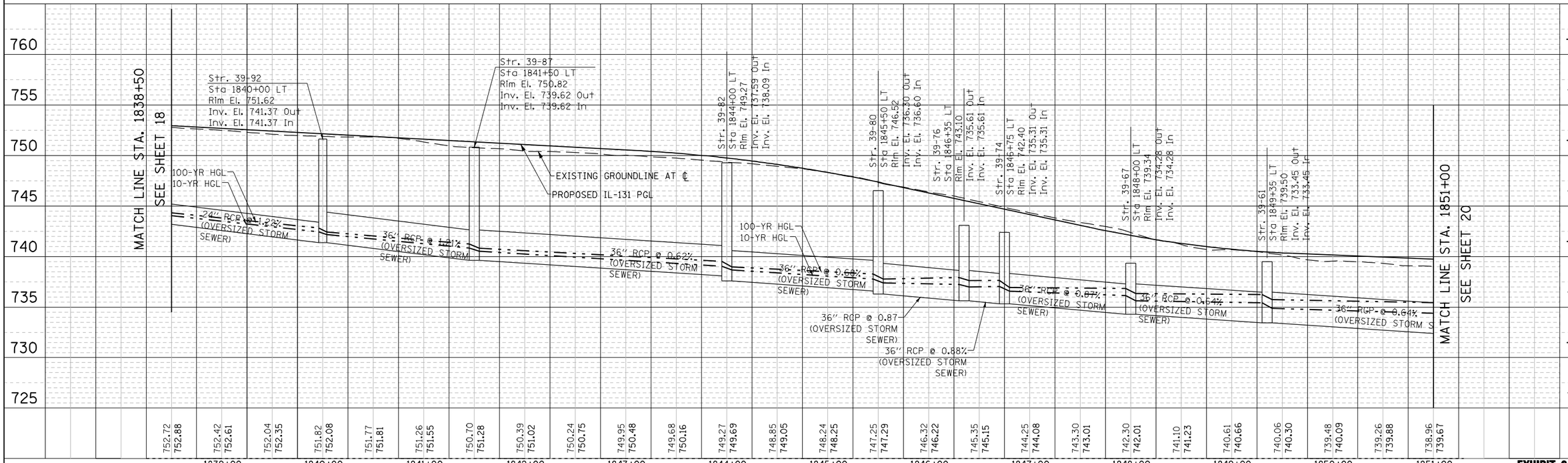


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-19.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

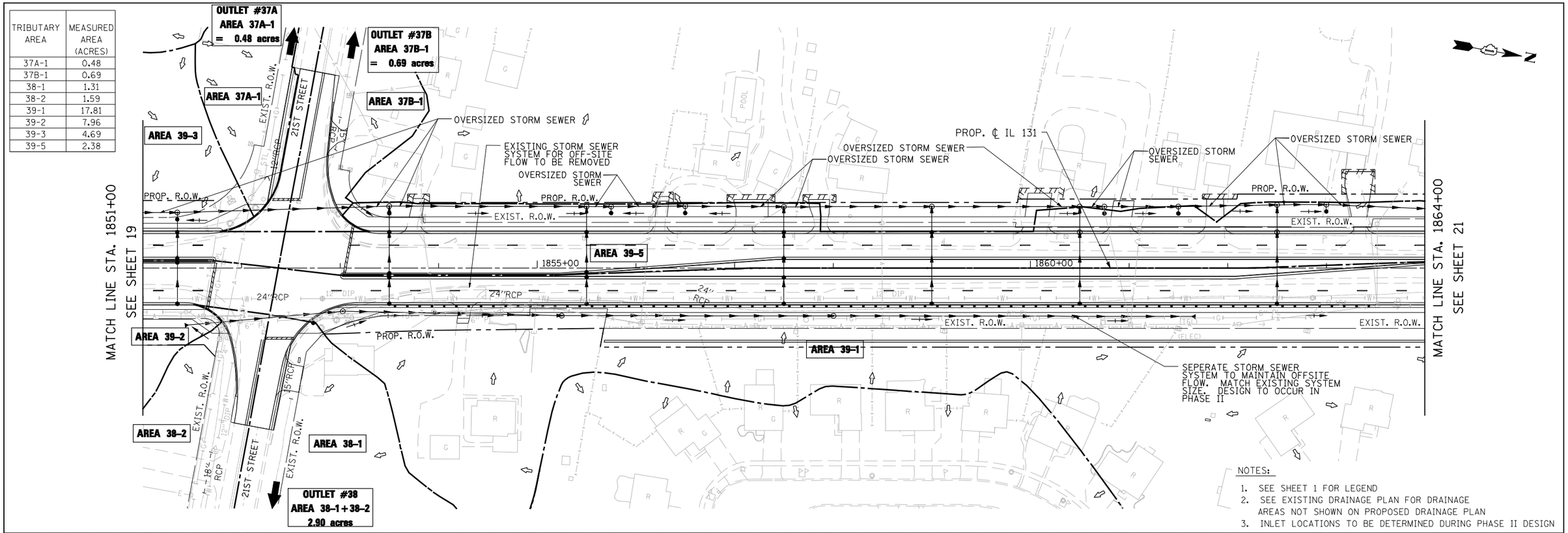
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 19 OF 32 SHEETS | STA. 1838+50 TO STA. 1851+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	19
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
37A-1	0.48
37B-1	0.69
38-1	1.31
38-2	1.59
39-1	17.81
39-2	7.96
39-3	4.69
39-5	2.38



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

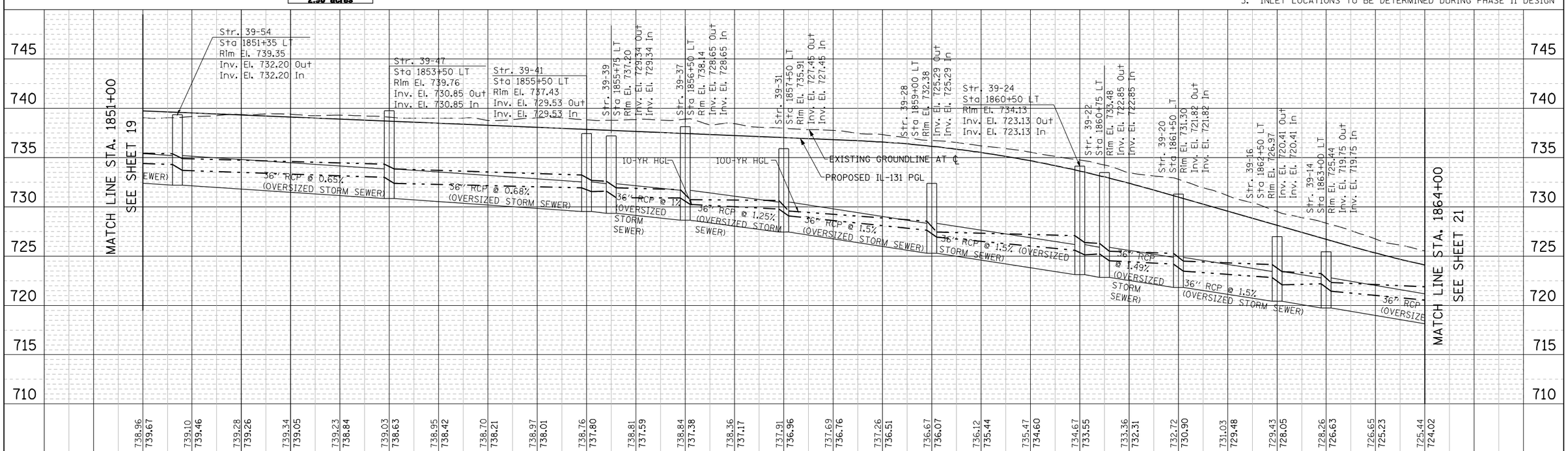


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		10/09
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-20.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
		CHECKED -	REVISED -

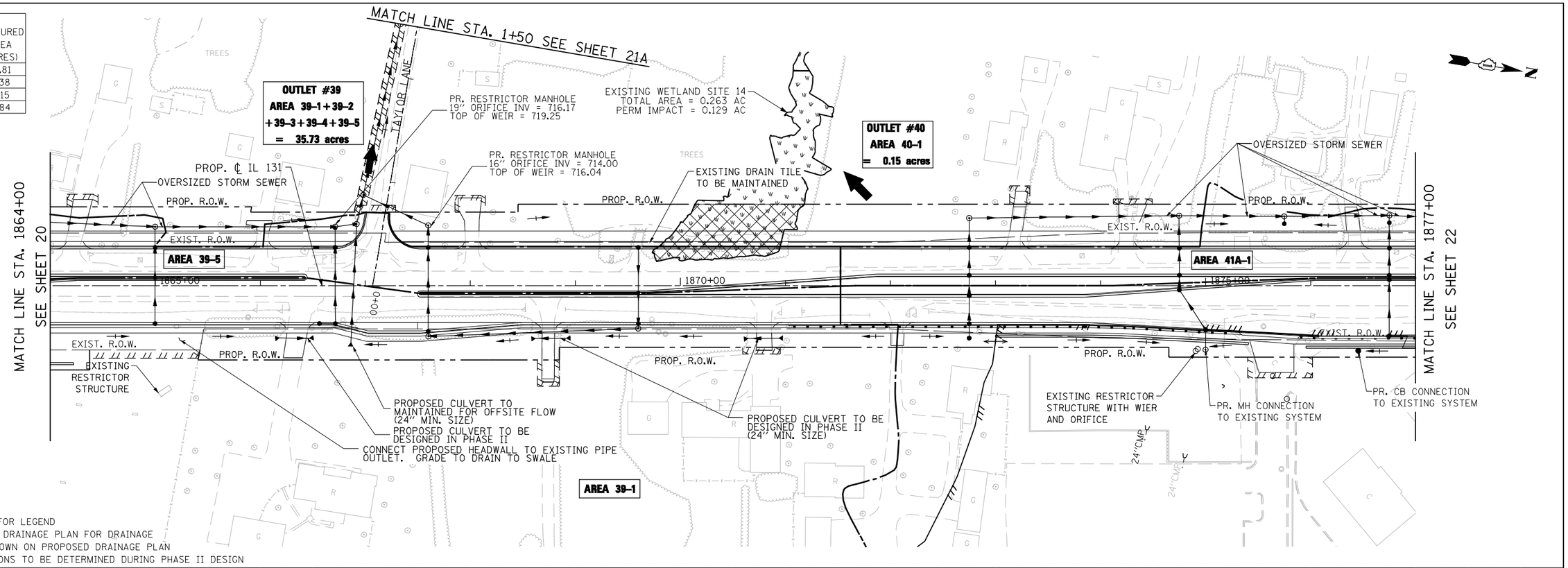
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 20 OF 32 SHEETS | STA. 1851+00 TO STA. 1864+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	20
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
39-1	17.81
39-5	2.38
40-1	0.15
41A-1	0.84



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

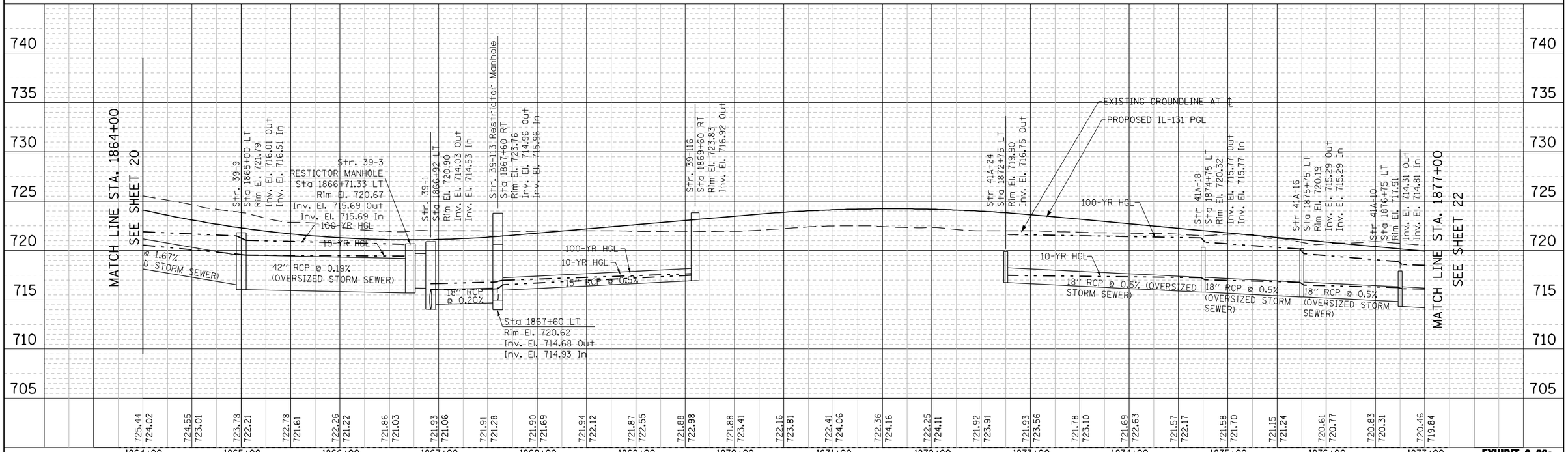


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		10/09
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

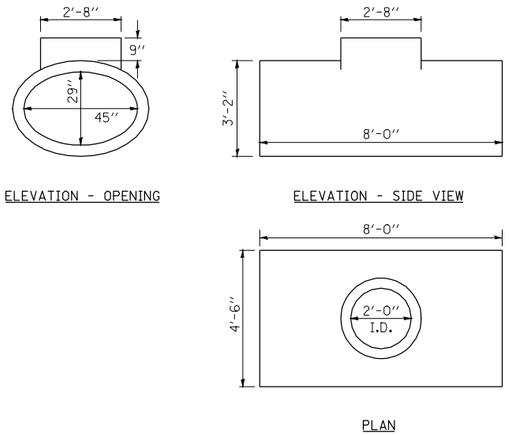
FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-21.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

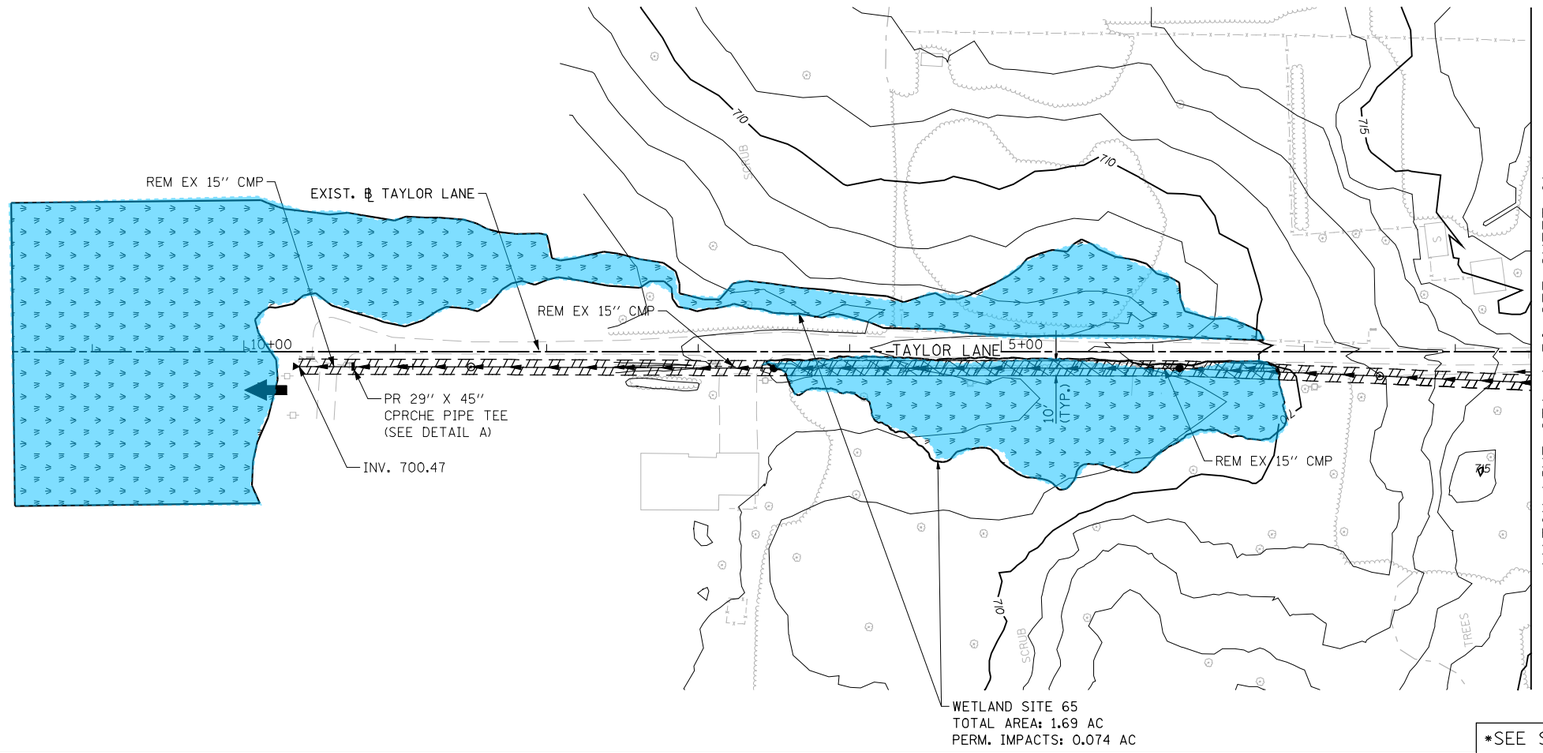
IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 21 OF 32 SHEETS | STA. 1864+00 TO STA. 1877+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	21
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETAIL A
(29" x 45" CPRCHE PIPE TEE)



*SEE SHEET 1 FOR LEGEND

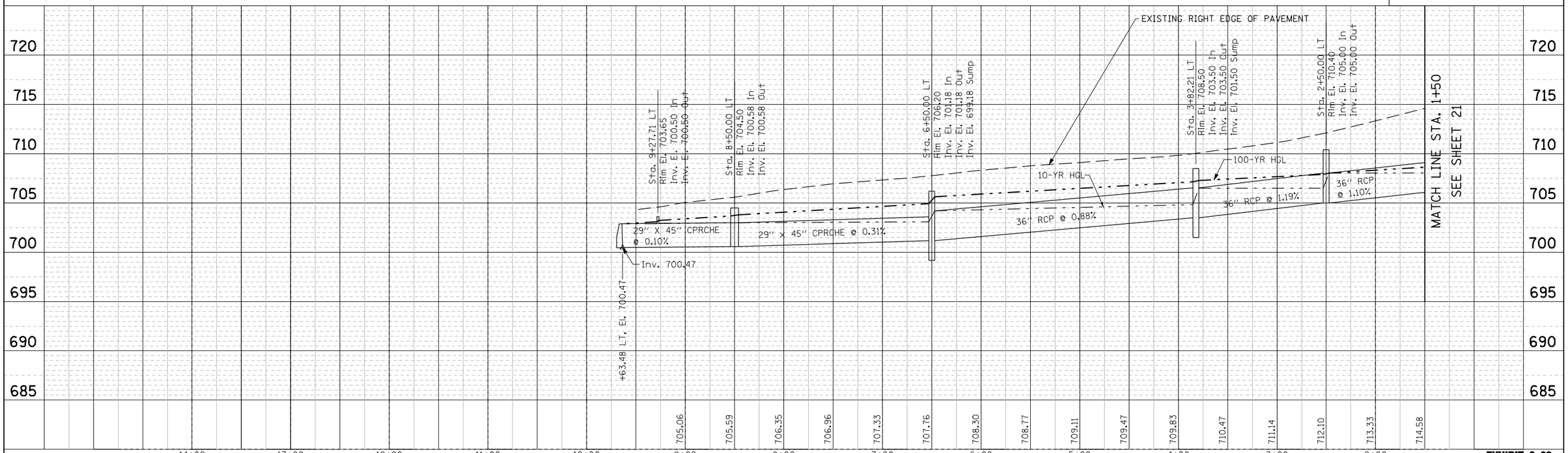


EXHIBIT 2–00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTAT'NS CHK'D		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-21a.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

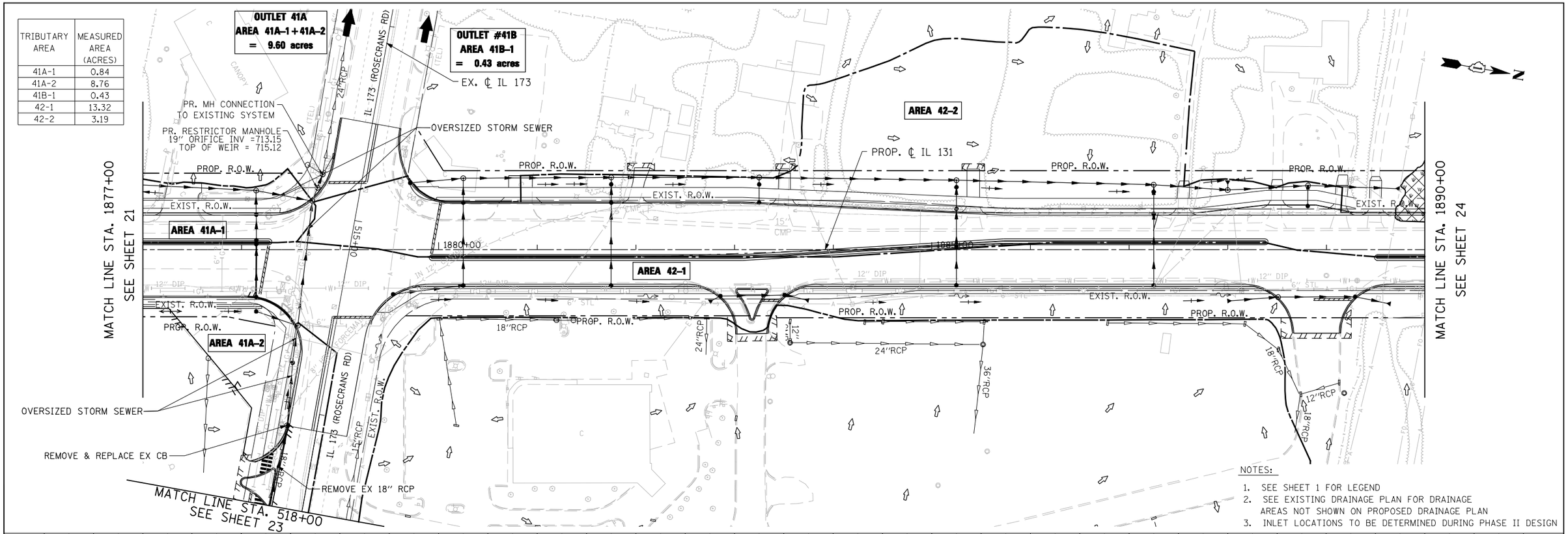
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 50 | SHEET NO. 21 OF 32 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	21A
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
41A-1	0.84
41A-2	8.76
41B-1	0.43
42-1	13.32
42-2	3.19



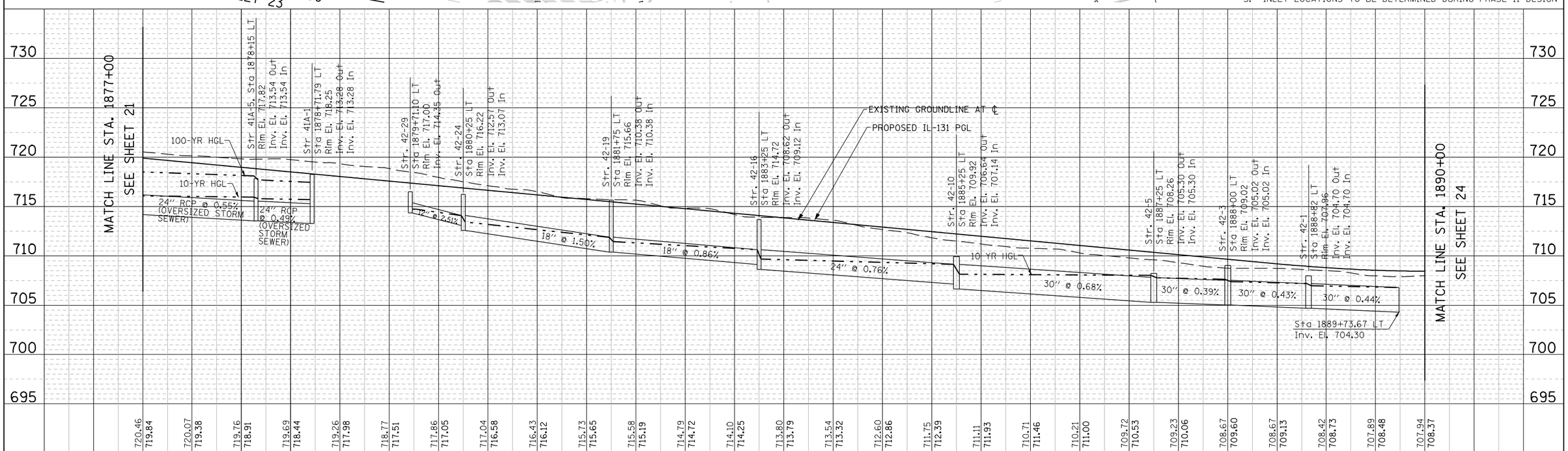


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLKS NOTED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-22.dgn

DESIGNED BY: HNTB

USER NAME = mamiller	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = 100:1	DRAWN -	REVISED -
PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 22 OF 32 SHEETS | STA. 1877+00 TO STA. 1890+00

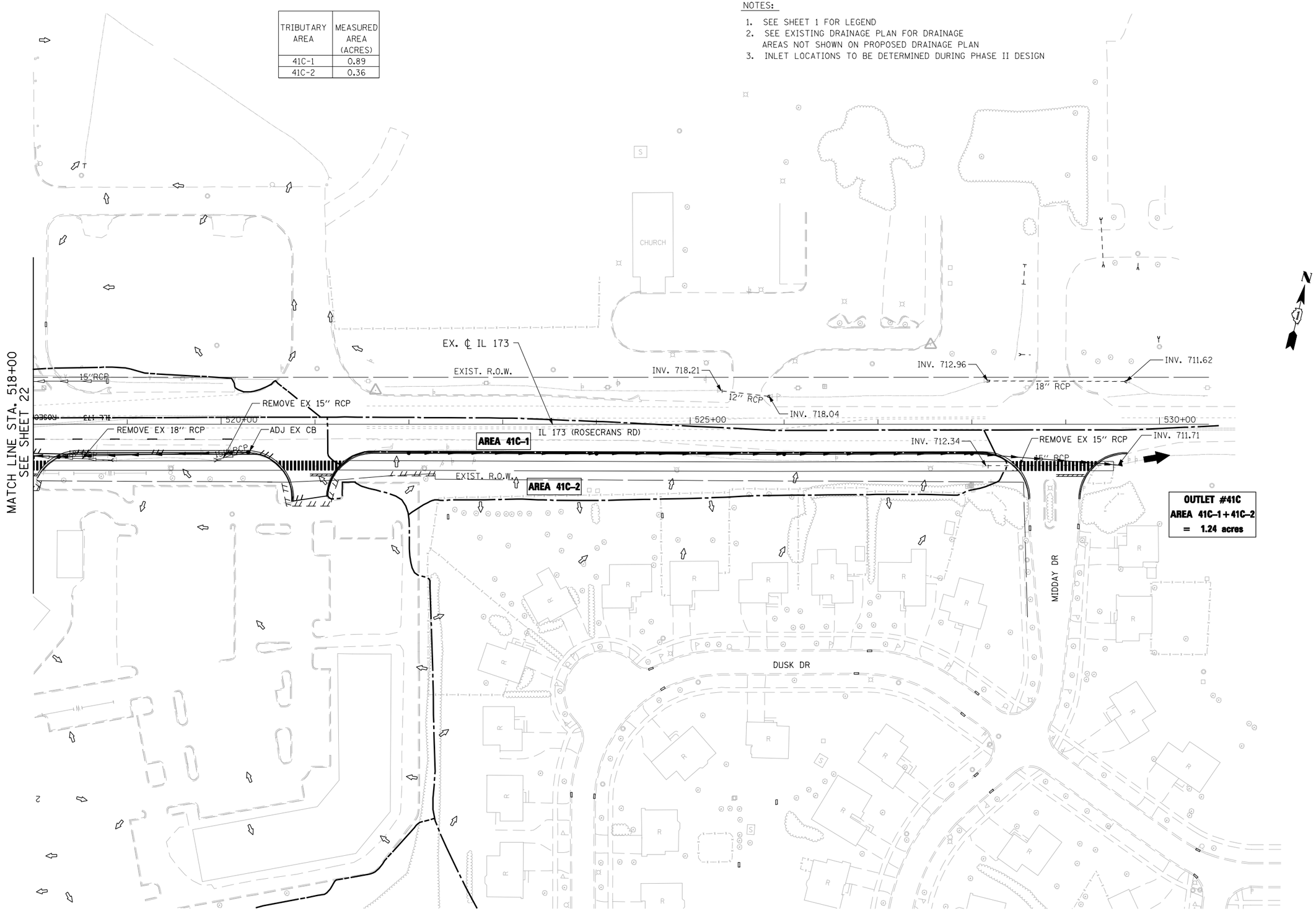
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	22
		CONTRACT NO.		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

TRIBUTARY AREA	MEASURED AREA (ACRES)
41C-1	0.89
41C-2	0.36

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

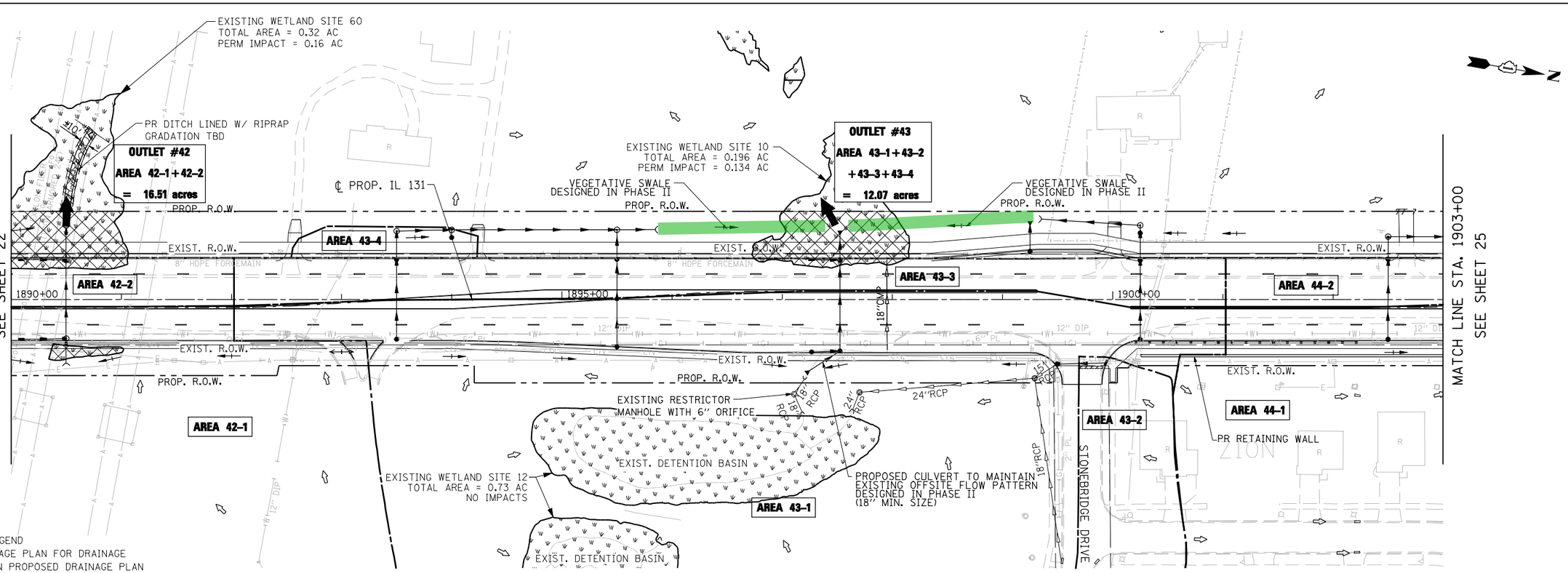


OUTLET #41C
AREA 41C-1 + 41C-2
= 1.24 acres

EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-22a.dgn	USER NAME = mamiller	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD PROPOSED DRAINAGE PLAN AND PROFILE ROSECRANS ROAD	F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -					LAKE / 32 / 23
	PLOT SCALE = 100:1	CHECKED -	REVISED -					CONTRACT NO.
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DATE -	REVISED -		SCALE: 1"=50' / SHEET NO. 23 OF 32 SHEETS / STA. 518+00.00 TO STA. 530+00.00		ILLINOIS	FED. AID PROJECT

TRIBUTARY AREA	MEASURED AREA (ACRES)
42-1	13.32
42-2	3.19
43-1	10.51
43-2	0.71
43-3	0.75
43-4	0.10
44-1	56.26
44-2	0.93



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

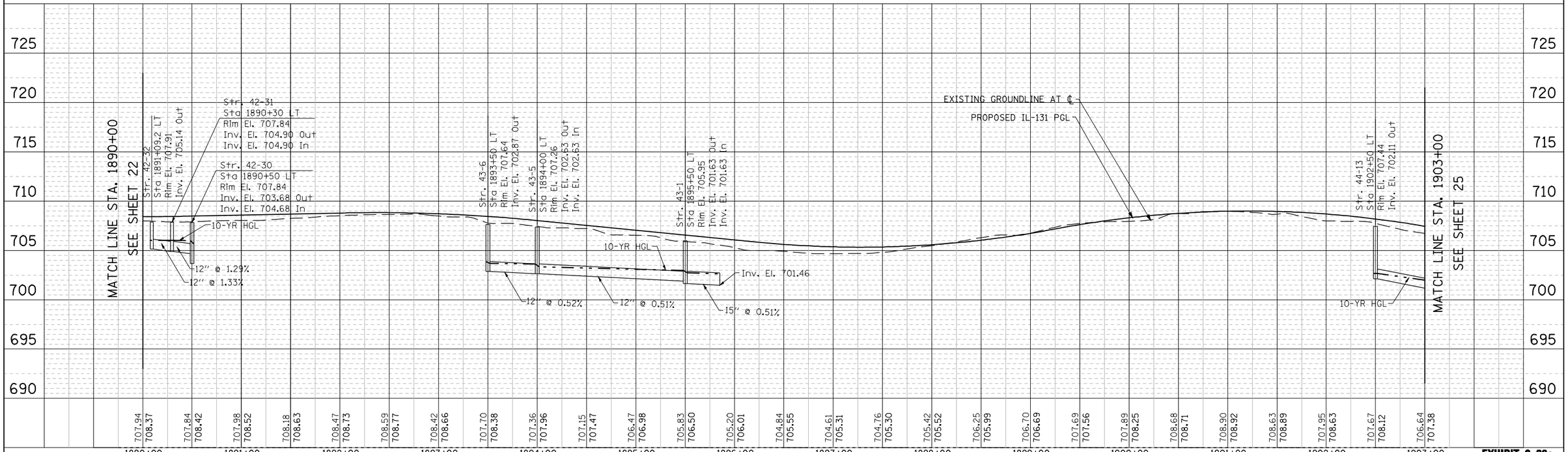


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-23.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 29-DEC-2016	DRAWN -	REVISED -
		CHECKED -	REVISED -

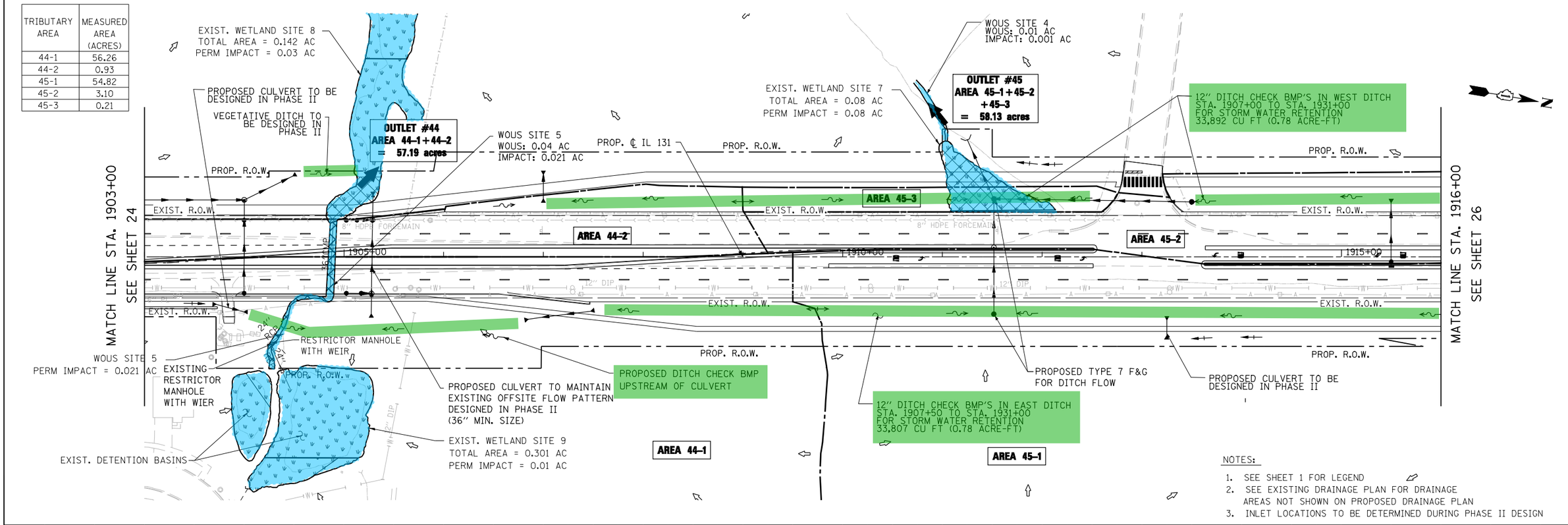
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 24 OF 32 SHEETS | STA. 1890+00 TO STA. 1903+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	24
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
44-1	56.26
44-2	0.93
45-1	54.82
45-2	3.10
45-3	0.21



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

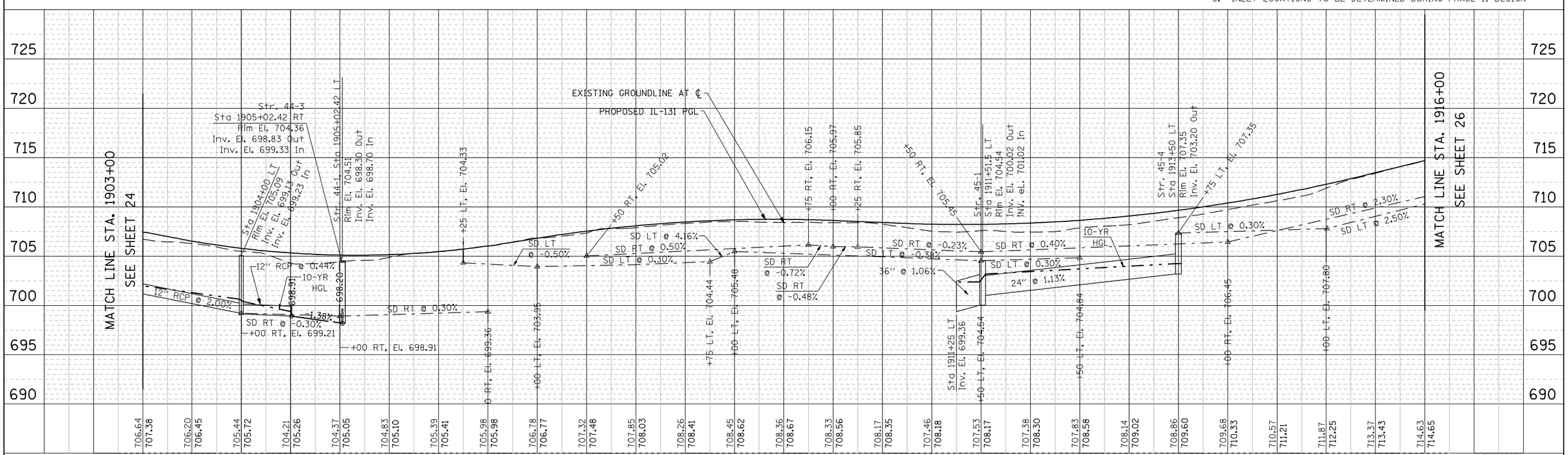


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-24.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

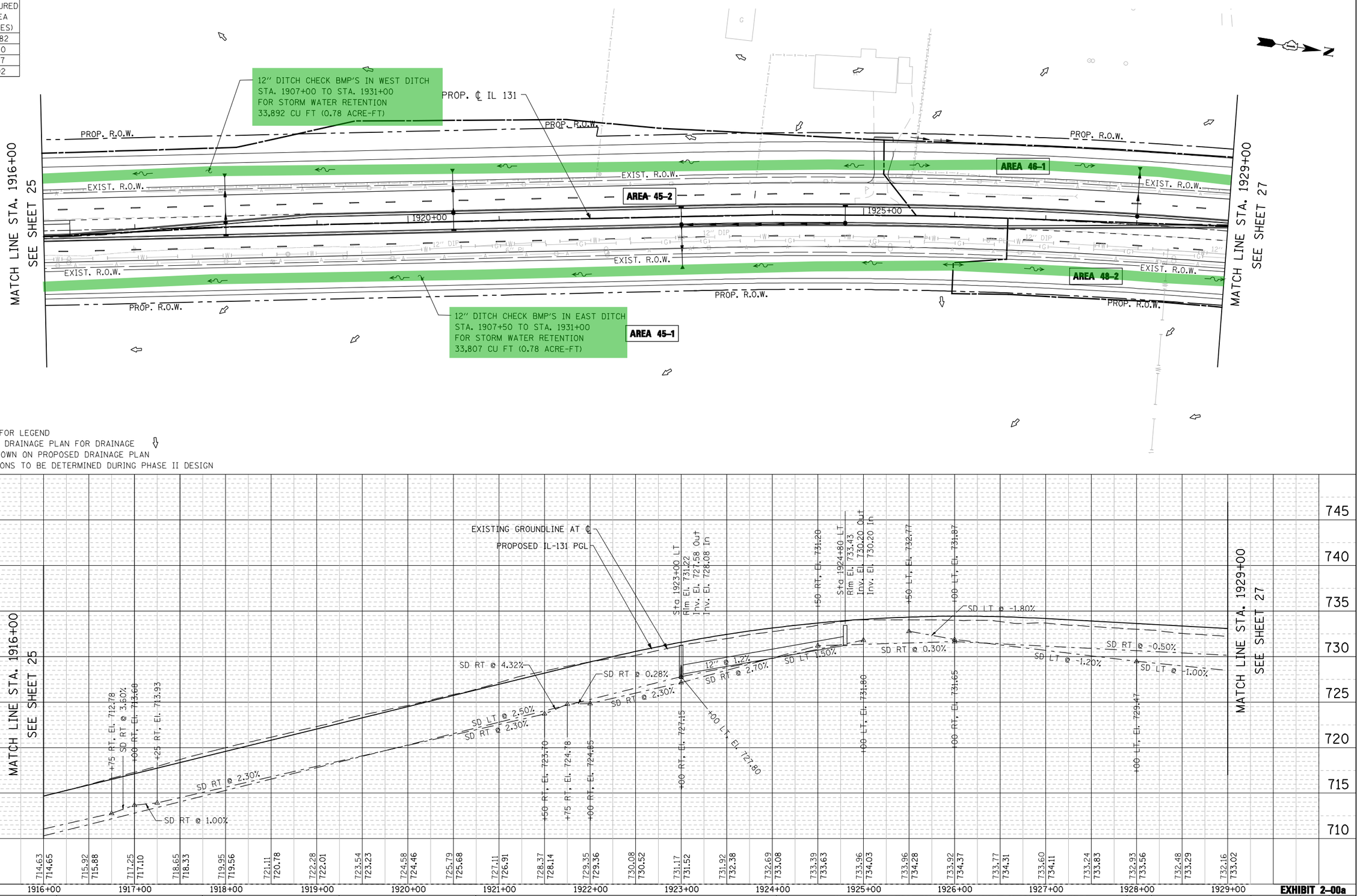
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 25 OF 32 SHEETS | STA. 1903+00 TO STA. 1916+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	25
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
45-1	54.82
45-2	3.10
46-1	1.17
48-2	1.92



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. ____ / BY / DATE 10/09

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BLDG. NOTED / STRUCTURE NOTAT'NS CHKD / NOTE BOOK NO. ____ / BY / DATE

EXHIBIT 2-00a

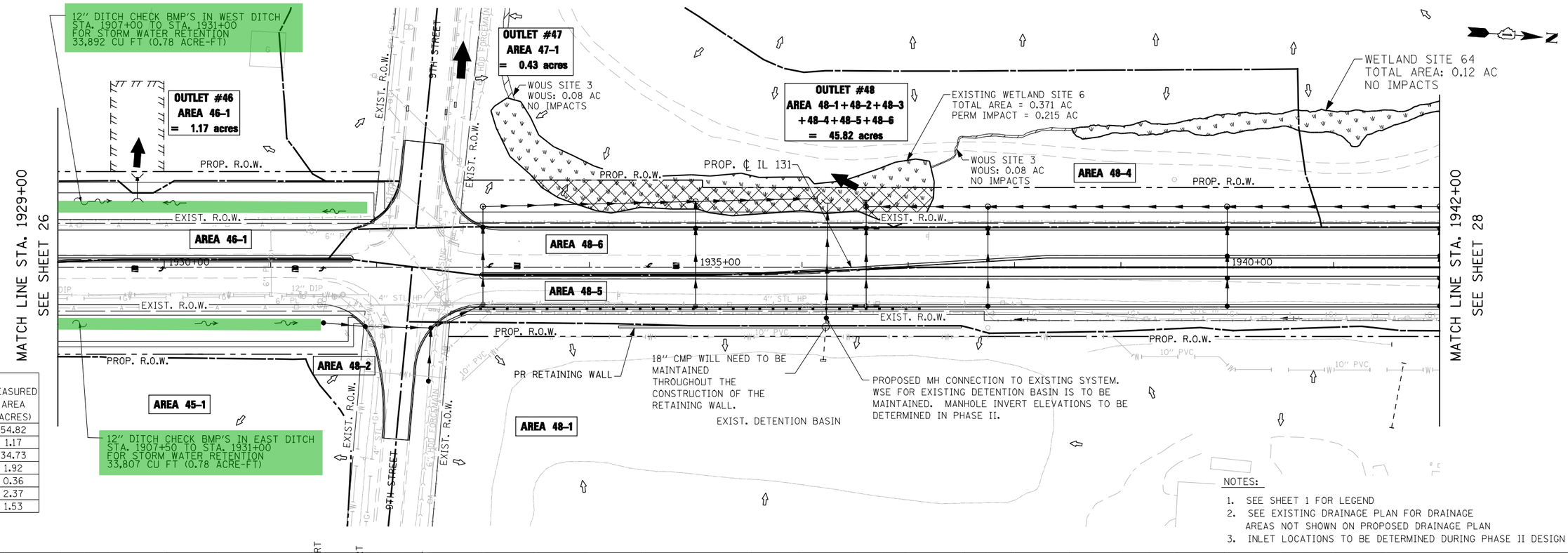
FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-25.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 26 OF 32 SHEETS | STA. 1916+00 TO STA. 1929+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	26
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRIBUTARY AREA	MEASURED AREA (ACRES)
45-1	54.82
46-1	1.17
48-1	34.73
48-2	1.92
48-4	0.36
48-5	2.37
48-6	1.53

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

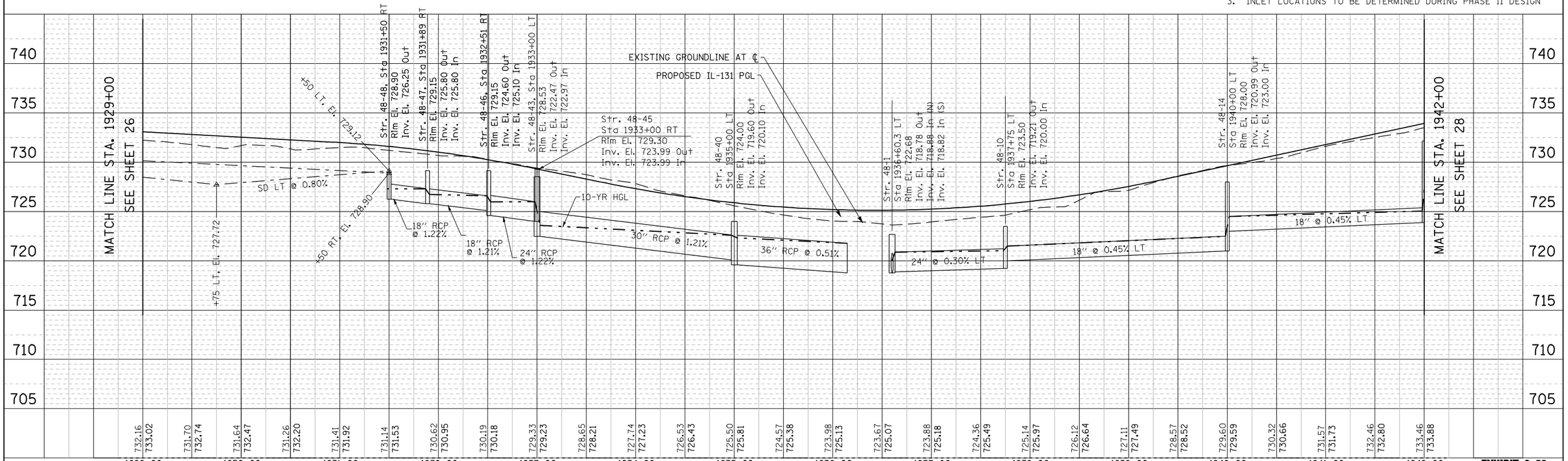


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		10/09
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:cdms07699\D146103-IL131-sht-drain-plnprf-26.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

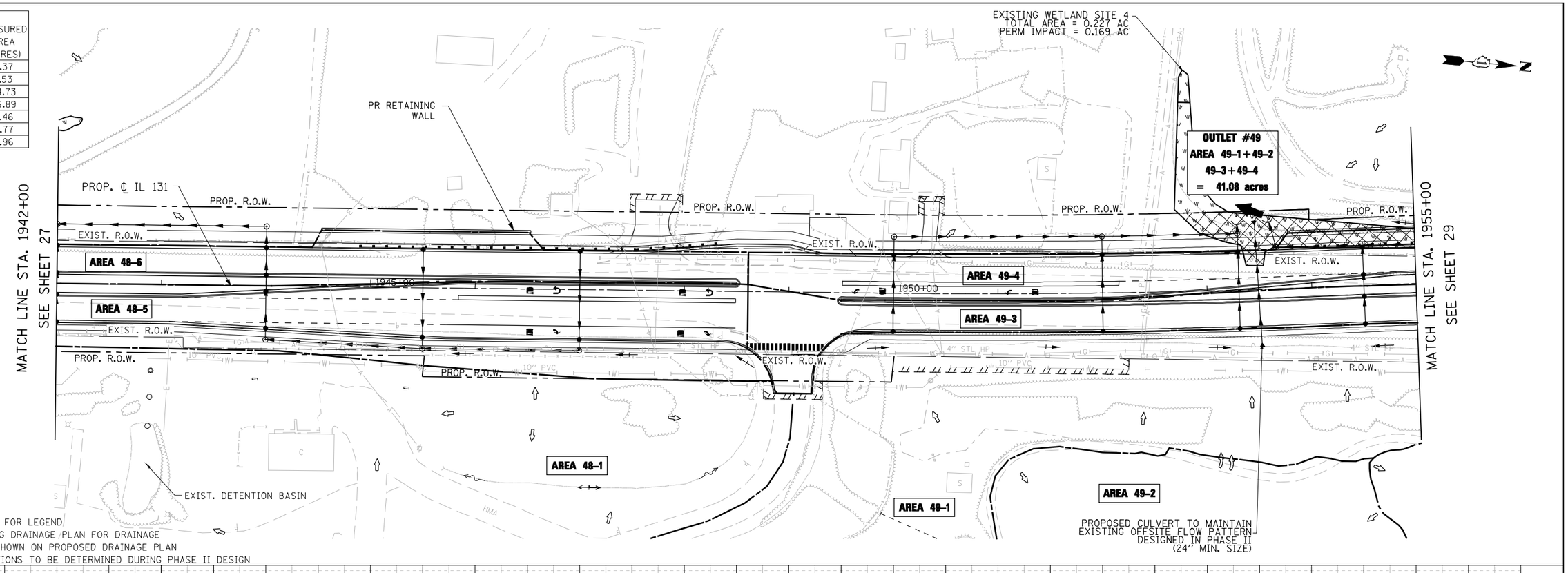
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 27 OF 32 SHEETS | STA. 1929+00 TO STA. 1942+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	27
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
48-5	2.37
48-6	1.53
48-1	34.73
49-1	36.89
49-2	2.46
49-3	0.77
49-4	0.96



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

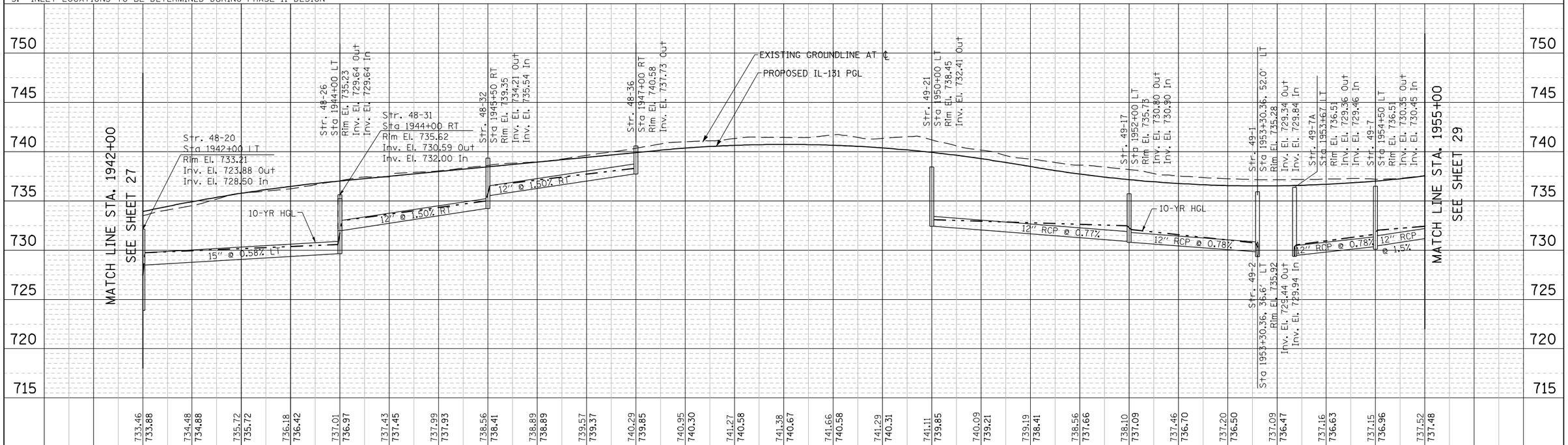


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		10/09
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-27.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
DESIGNED BY: HNTB		CHECKED -	REVISED -

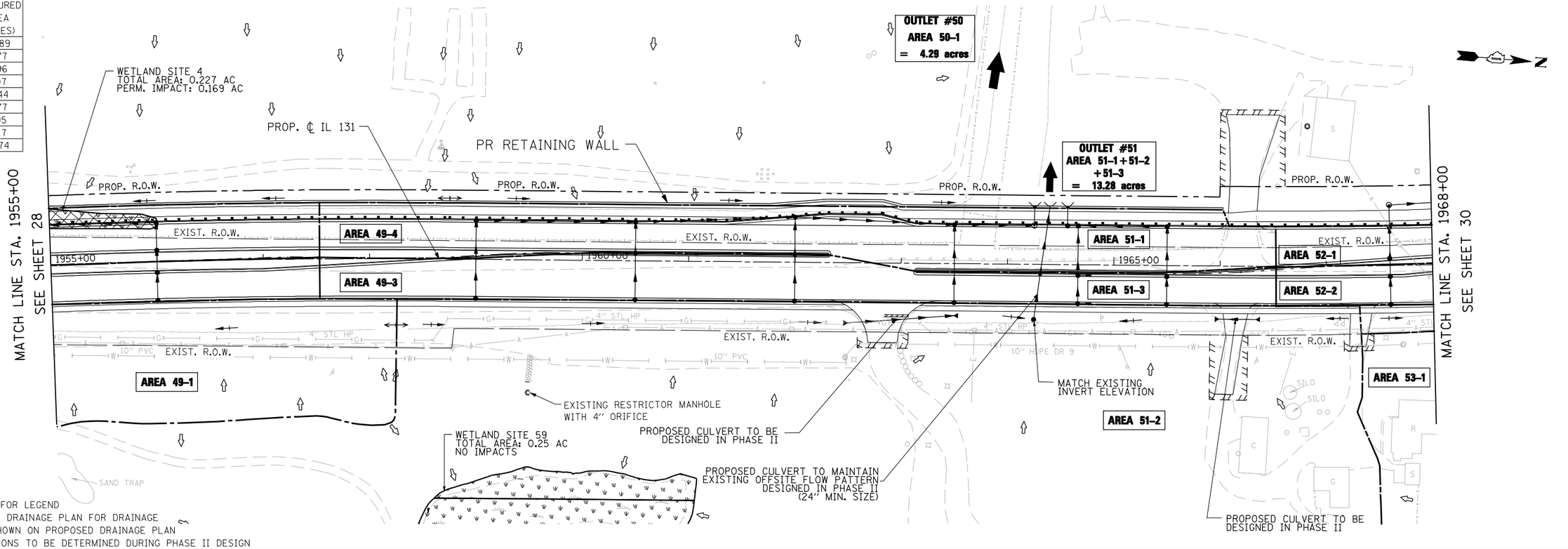
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 28 OF 32 SHEETS | STA. 1942+00 TO STA. 1955+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	28
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
49-1	36.89
49-3	0.77
49-4	0.96
51-1	1.07
51-2	11.44
51-3	0.77
52-1	1.05
52-2	0.17
53-1	19.74



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

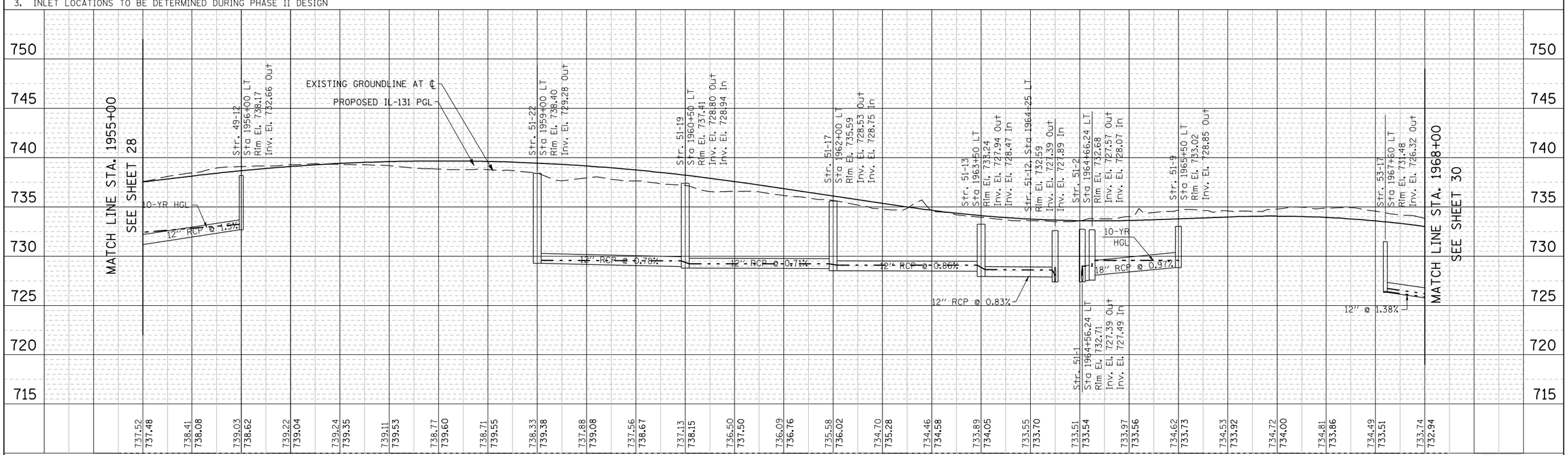


EXHIBIT 2-00a

PLAN	BY	DATE
SURVEYED		10/09
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BLDG NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-pln-prf-28.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
		CHECKED -	REVISED -

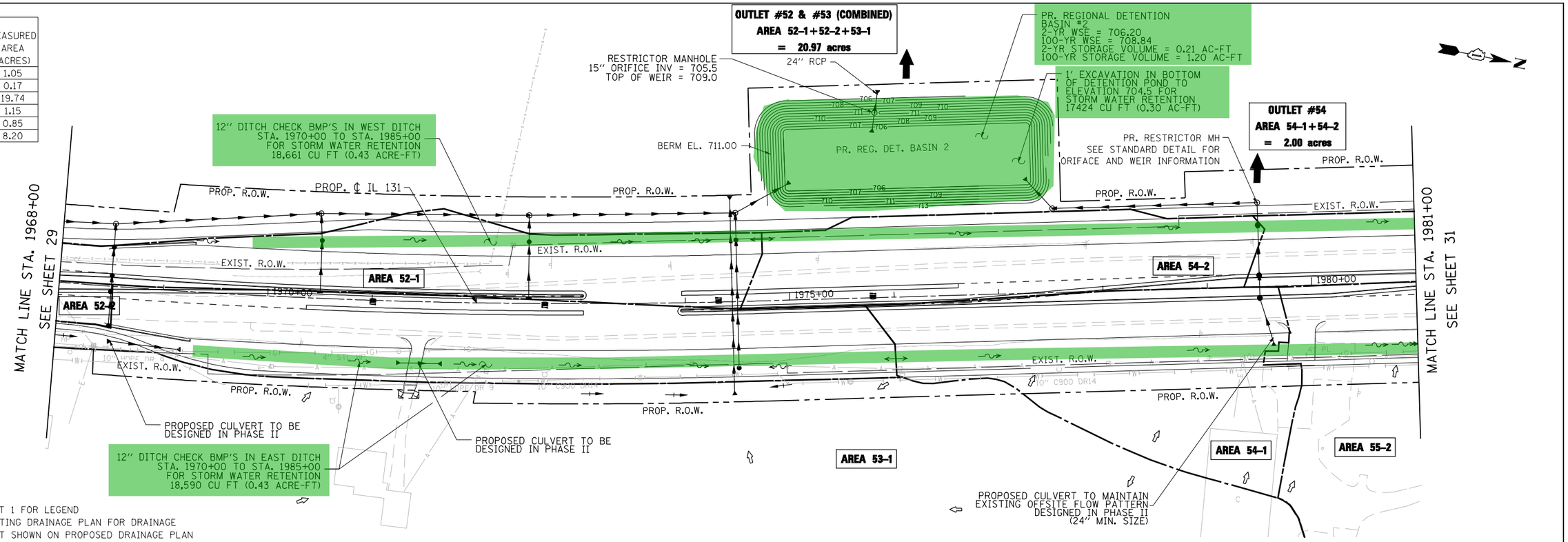
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 29 OF 32 SHEETS | STA. 1955+00 TO STA. 1968+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	29
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRIBUTARY AREA	MEASURED AREA (ACRES)
52-1	1.05
52-2	0.17
53-1	19.74
54-1	1.15
54-2	0.85
55-2	8.20



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

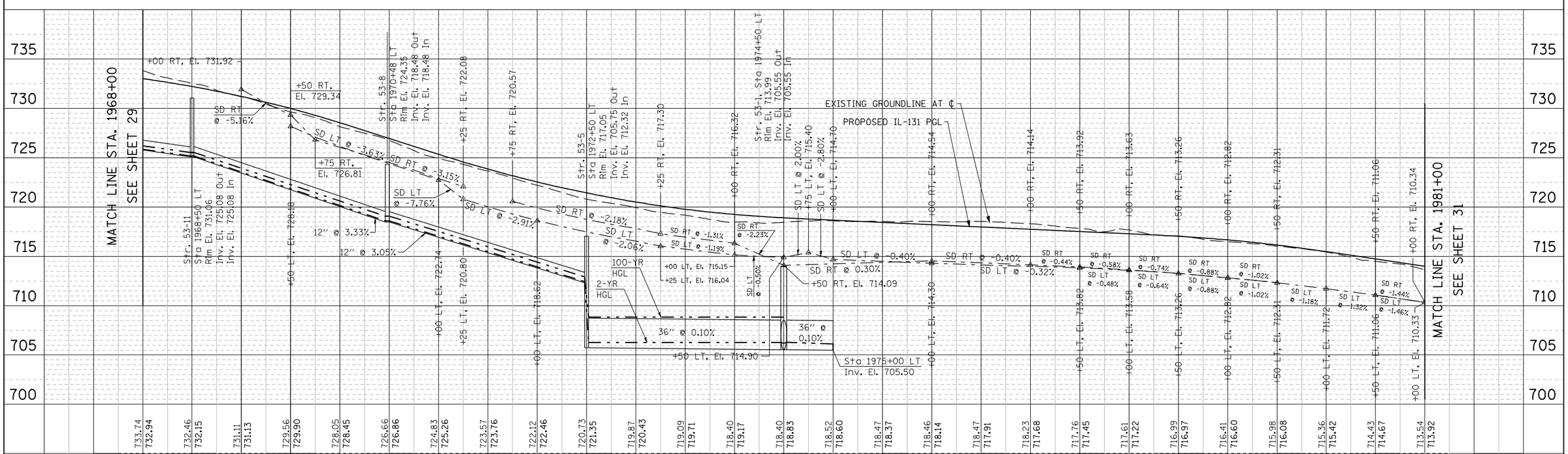


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-29.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

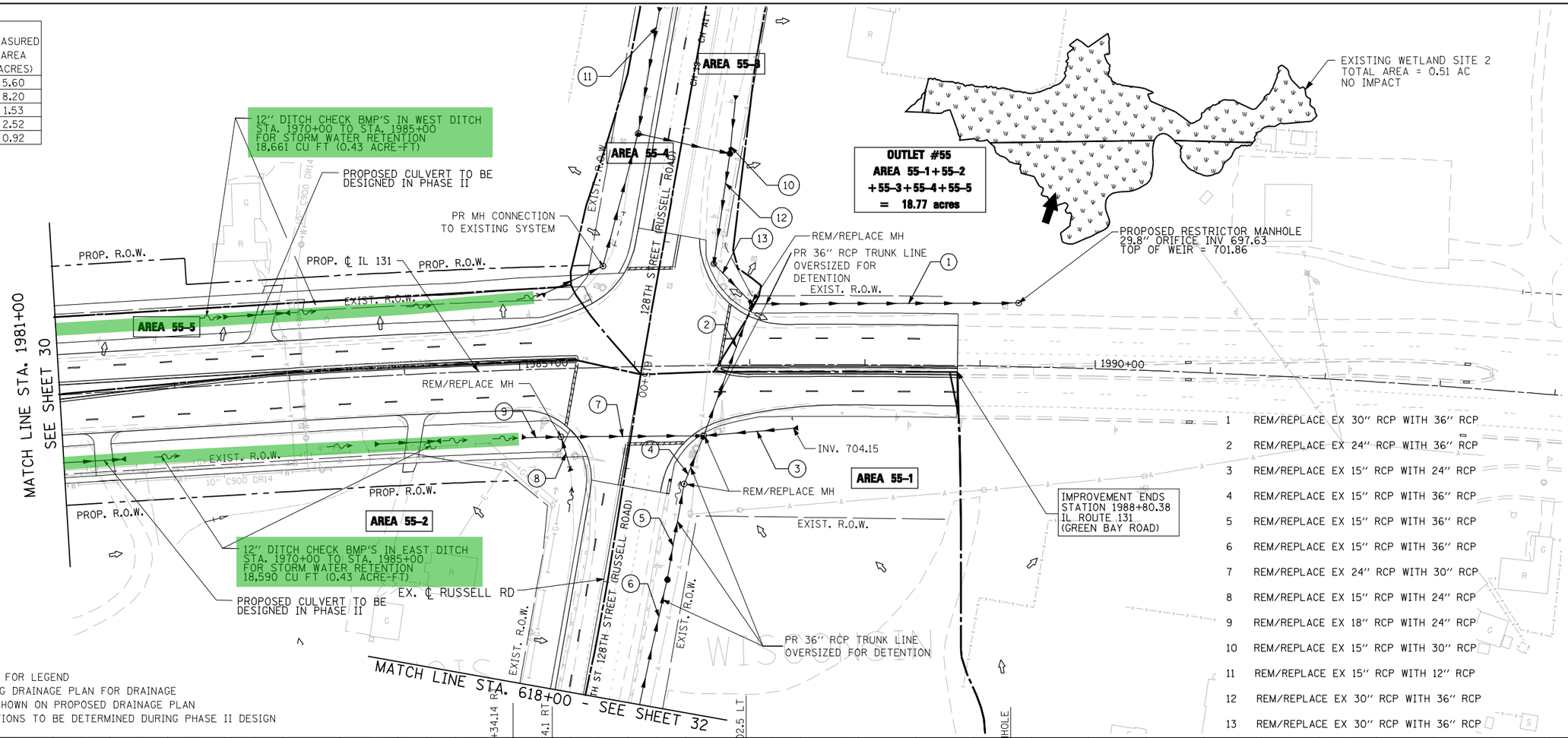
SCALE: 1"=50' | SHEET NO. 30 OF 32 SHEETS | STA. 1968+00 TO STA. 1981+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	30
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. — BY — DATE 10/09

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BLDG NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. — BY — DATE

TRIBUTARY AREA	MEASURED AREA (ACRES)
55-1	5.60
55-2	8.20
55-3	1.53
55-4	2.52
55-5	0.92



1 REM/REPLACE EX 30" RCP WITH 36" RCP
2 REM/REPLACE EX 24" RCP WITH 36" RCP
3 REM/REPLACE EX 15" RCP WITH 24" RCP
4 REM/REPLACE EX 15" RCP WITH 36" RCP
5 REM/REPLACE EX 15" RCP WITH 36" RCP
6 REM/REPLACE EX 15" RCP WITH 36" RCP
7 REM/REPLACE EX 24" RCP WITH 30" RCP
8 REM/REPLACE EX 15" RCP WITH 24" RCP
9 REM/REPLACE EX 18" RCP WITH 24" RCP
10 REM/REPLACE EX 15" RCP WITH 30" RCP
11 REM/REPLACE EX 15" RCP WITH 12" RCP
12 REM/REPLACE EX 30" RCP WITH 36" RCP
13 REM/REPLACE EX 30" RCP WITH 36" RCP

NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

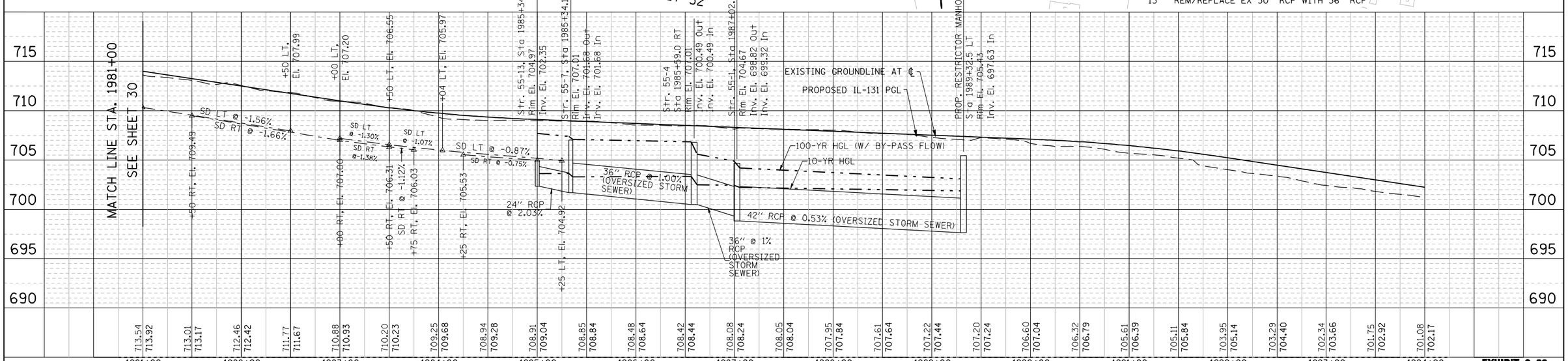


EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-30.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 100:1	DRAWN -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 31 OF 32 SHEETS | STA. 1981+00 TO STA.

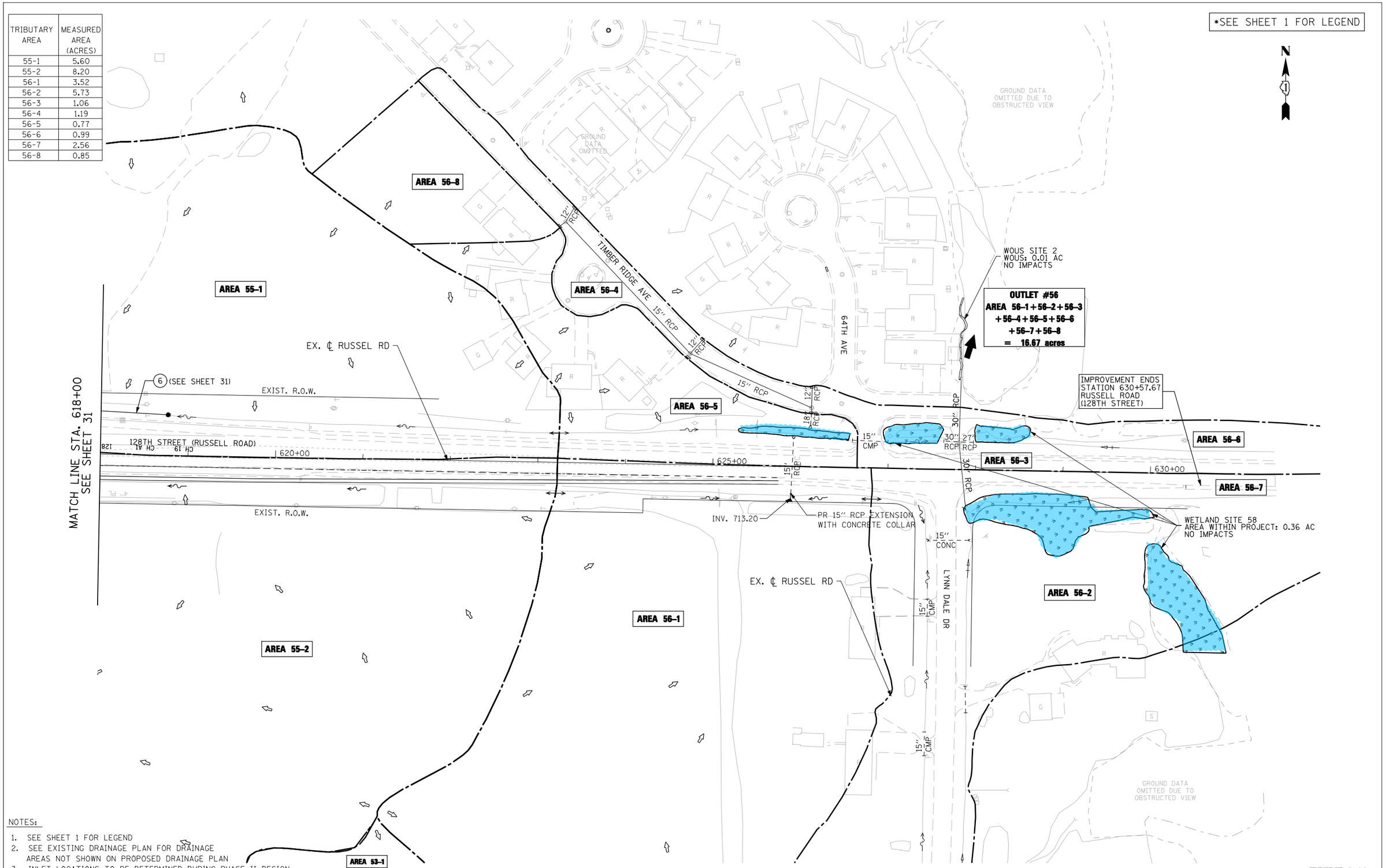
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	31
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE 10/09

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | BLM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK NO. | BY | DATE

TRIBUTARY AREA	MEASURED AREA (ACRES)
55-1	5.60
55-2	8.20
56-1	3.52
56-2	5.73
56-3	1.06
56-4	1.19
56-5	0.77
56-6	0.99
56-7	2.56
56-8	0.85

*SEE SHEET 1 FOR LEGEND



NOTES:

1. SEE SHEET 1 FOR LEGEND
2. SEE EXISTING DRAINAGE PLAN FOR DRAINAGE AREAS NOT SHOWN ON PROPOSED DRAINAGE PLAN
3. INLET LOCATIONS TO BE DETERMINED DURING PHASE II DESIGN

EXHIBIT 2-00a

FILE NAME = IP_PWP:dms07699\D146103-IL131-sht-drain-plnprf-30a.dgn	USER NAME = mamiller	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100:1	CHECKED -	REVISED -
DESIGNED BY: HNTB	PLOT DATE = 28-DEC-2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 131 FROM SUNSET AVENUE TO RUSSELL ROAD
PROPOSED DRAINAGE PLAN AND PROFILE
RUSSELL ROAD

SCALE: 1"=50' | SHEET NO. 32 OF 32 SHEETS | STA. 618+00.00 TO STA. 630+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		LAKE	32	32
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
231 SOUTH LA SALLE STREET
CHICAGO, ILLINOIS 60604-1437

REPLY TO
ATTENTION OF:

January 10, 2017

Technical Services Division
Regulatory Branch
LRC-2010-00518

SUBJECT: Approved Jurisdictional Determination for Illinois Route 131 from Russell Road to Sunset Avenue in Waukegan, Beach Park, Winthrop Harbor, Wadsworth, and Zion in Lake County, Illinois

John Fortmann
Illinois Department of Transportation
201 West Center Court
Schaumburg, Illinois 60196

Dear Mr. Fortmann:

This is in response to your request that the U.S. Army Corps of Engineers complete a jurisdictional determination for the above-referenced site. The subject project has been assigned number LRC-2010-00518. Please reference this number in all future correspondence concerning this project.

Following a review of the information you submitted, this office has determined that the subject property contains "waters of the United States" as well as non-jurisdictional features. Sites 7-9, 40, 41, 51-53, 55, 58, 65, 69-72, W4-W7 have been determined to be under the jurisdiction of this office and therefore, subject to Federal regulation.

Sites 4, 6, 10, 11, 14, 15, 17-19, 21-27, 29-39, 42, 45-50, 57, 59-60 and 66 have been determined to be isolated and therefore not subject to Federal regulation. Sites 12, 13, 28, 56, 61-63 and 67-68 are detention basins constructed in upland and are not under the jurisdiction of this office. Sites W3, W8 and W9 are roadside ditches and not under the jurisdiction of this office. Please be informed that this office does not concur with the boundaries of waters not under the jurisdiction of this office.

This office concurs with the submitted wetland delineation and wetland boundaries at the subject site. This confirmation is valid for a period of five years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date.

For a detailed description of our determination please refer to the enclosed decision document. This determination covers only your project as depicted in the document titled "Wetland Delineation Report – Project Site: IL 131 (FAP880/FAP 2711) Addendum A – Lake County, Illinois" dated July 2013, prepared by the Illinois Natural History Survey.

This determination is valid for a period of five (5) years from the date of the letter, unless new information warrants revision of the determination before the expiration date or a District Commander has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.

This letter is considered an approved jurisdictional determination for your subject site. If you object to this determination, you may appeal, according to 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and a Request for Appeal (RFA) form. If you request to appeal the above determination, you must submit a completed RFA form to the Great Lakes/Ohio River Division Office at the following address:

Jacob Siegrist
Appeal Review Officer
Great Lakes and Ohio River Division
CELRD-PD-REG
550 Main Street, Room 10032
Cincinnati, Ohio 45202-3222
Phone: (513) 684-2699 Fax: (513) 684-2460

In order to be accepted, your RFA must be complete, meet the criteria for appeal and be received by the Division Office within sixty (60) days of the date of the NAP. If you concur with the determination in this letter, submittal of the RFA form to the Division office is not necessary.

This determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

It is your responsibility to obtain any required state, county, or local approvals for impacts to wetland areas not under the Department of the Army jurisdiction. For projects in unincorporated areas of Lake County, please contact Lake County Planning, Building and Development at (847) 377-2600. For projects in incorporated areas of Lake County, please contact the Lake County Stormwater Management Commission at (847) 377-7700.

Pursuant to Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers regulates the discharge of dredged or fill material into waters of the United States, including wetlands. A Department of the Army permit is required for any proposed work involving the discharge of dredged or fill material within the jurisdiction of this office. To initiate the permit process, please submit a joint permit application form along with detailed plans of the proposed work. Information concerning our program, including the application form and an application checklist, can be found at and downloaded from our website:
http://www.lrc.usace.army.mil/Missions/Regulatory.aspx

If you have any questions, please contact Mr. Soren Hall of my staff by telephone at (312) 846-5532 or email at Soren.G.Hall@usace.army.mil.

Sincerely,

CHERNICH.KATHLEEN.
G.1230365616
2017.01.18 17:05:51
-06'00'

Kathleen G. Chernich
Chief, East Section
Regulatory Branch

Enclosures

Copy Furnished w/out Enclosures

Huff & Huff (Alycia Kluenenberg)

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: John Fortmann, Illinois Department of Transportation	File Number: LRC-2010-00518	Date: January 10, 2017

Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/CECW/Pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit or a Letter of Permission (LOP), you may sign the permit document and return it to the district commander for final authorization. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district commander. Your objections must be received by the district commander within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district commander will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district commander will send you a proffered permit for your reconsideration, as indicated in Section B below.

B. PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit or a Letter of Permission (LOP), you may sign the permit document and return it to the district commander for final authorization. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

D. APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division commander. This form must be received by the division commander within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
Regulatory Branch Chicago District Corps of Engineers 231 South LaSalle Street, Suite 1500 Chicago, IL 60604-1437 Phone: (312) 846-5530 Fax: (312) 353-4110	Jacob Siegrist Appeal Review Officer Great Lakes and Ohio River Division CELRD-PD-REG 550 Main Street, Room 10032 Cincinnati, Ohio 45202-3222 Phone: (513) 684-2699 Fax: (513) 684-2460

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Commanders personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		