ILLINOIS STATE TOLL HIGHWAY AUTHORITY

2700 Ogden Ave., Downers Grove, IL 60515

CONCEPT DRAINAGE REPORT
FOR
CENTRAL TRI-STATE TOLLWAY (I-294)
MASTER PLAN

CERMAK ROAD (M.P. 29.5) TO
BALMORAL AVENUE (M.P. 40.0)

PART 2

PREPARED BY: JACOBS / EFK MOEN / HANSON TEAM
DATE: DECEMBER 22, 2017

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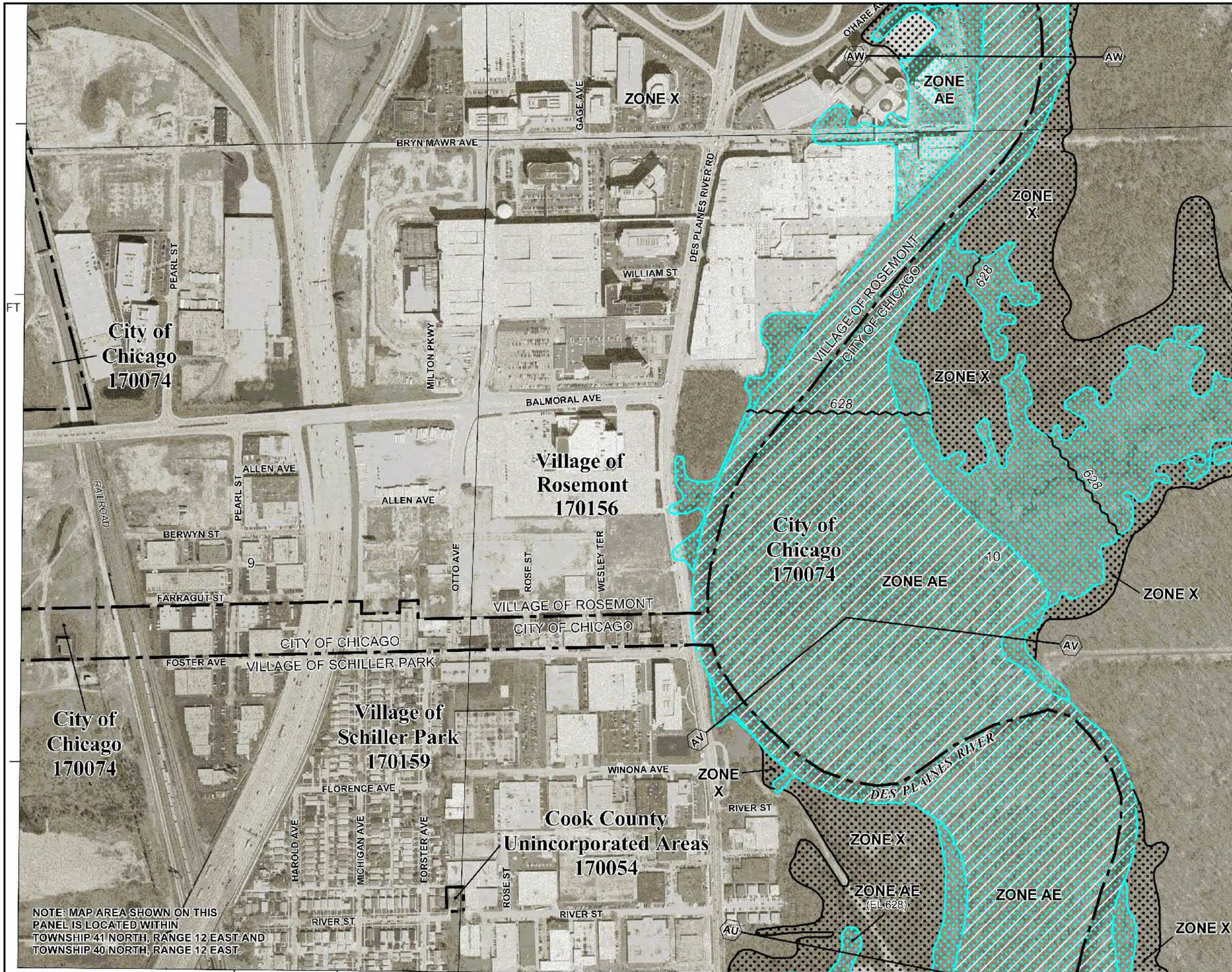


NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0376J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 376 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHICAGO, CITY OF	170074	0376	J
COOK COUNTY	170054	0376	J
DES PLAINES, CITY OF	170081	0376	J
NORRIDGE, VILLAGE OF	170131	0376	J
PARK RIDGE, CITY OF	170146	0376	J
ROSEMONT, VILLAGE OF	170158	0376	J
SCHILLER PARK, VILLAGE OF	170159	0376	J

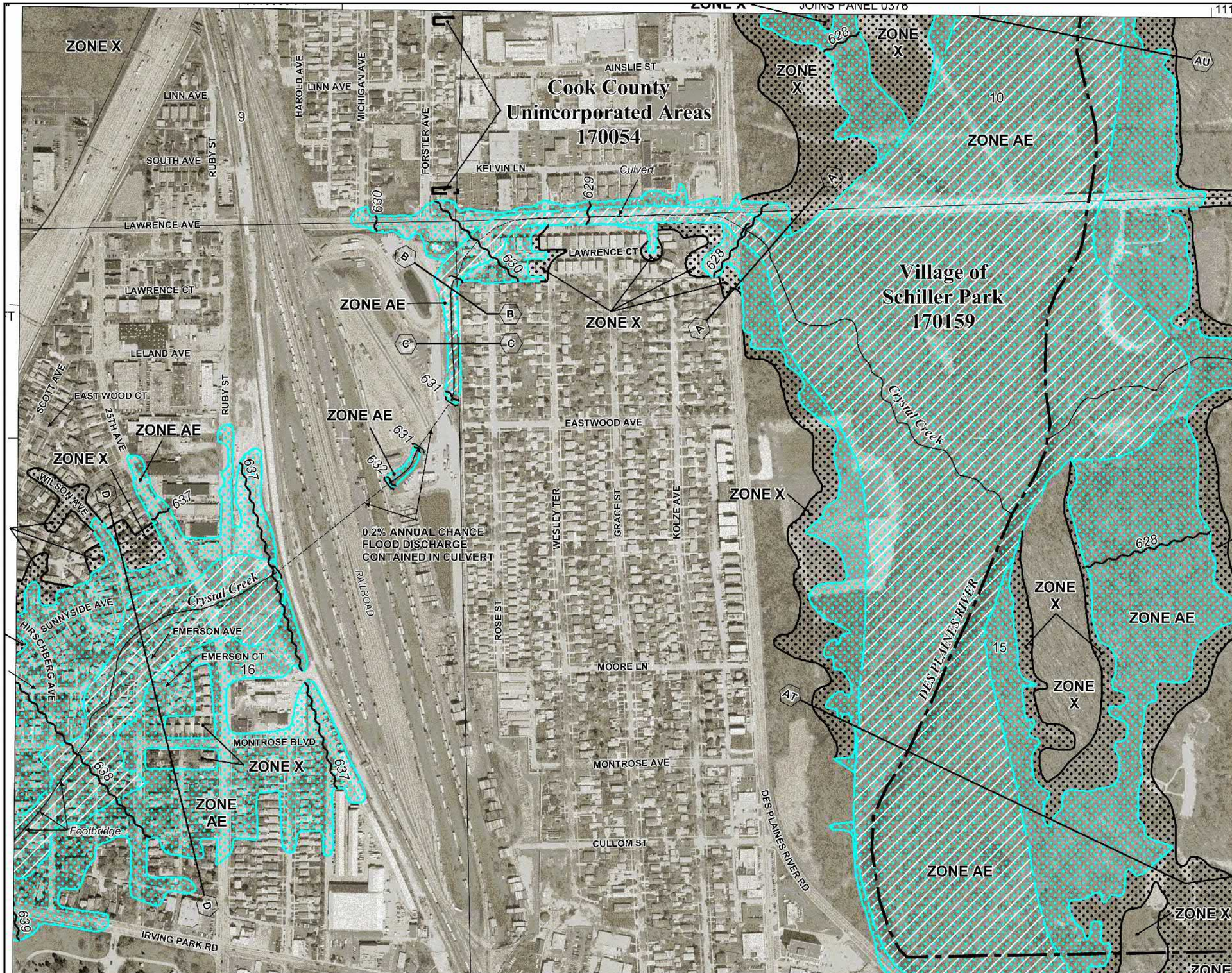
Notice to User: **The Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0376J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'

0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0378J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 378 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHICAGO, CITY OF	170074	0378	J
COOK COUNTY	170054	0378	J
FRANKLIN PARK, VILLAGE OF	170094	0378	J
NORRIDGE, VILLAGE OF	170131	0378	J
SCHILLER PARK, VILLAGE OF	170159	0378	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0378J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

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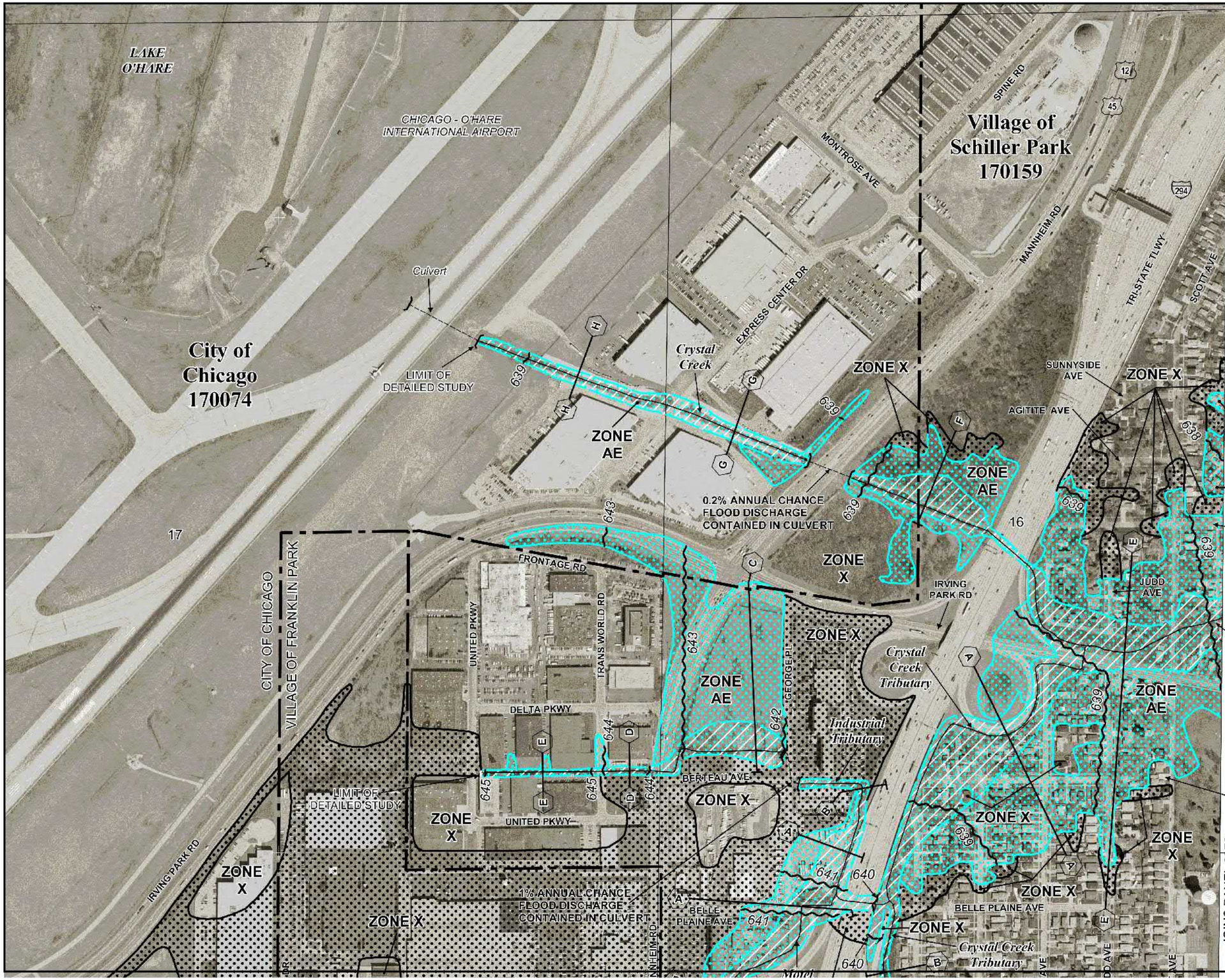


MAP SCALE 1" = 500'

50 0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0359J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 359 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHICAGO, CITY OF	170074	0359	J
COOK COUNTY	170054	0359	J
FRANKLIN PARK, VILLAGE OF	170094	0359	J
SCHILLER PARK, VILLAGE OF	170159	0359	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

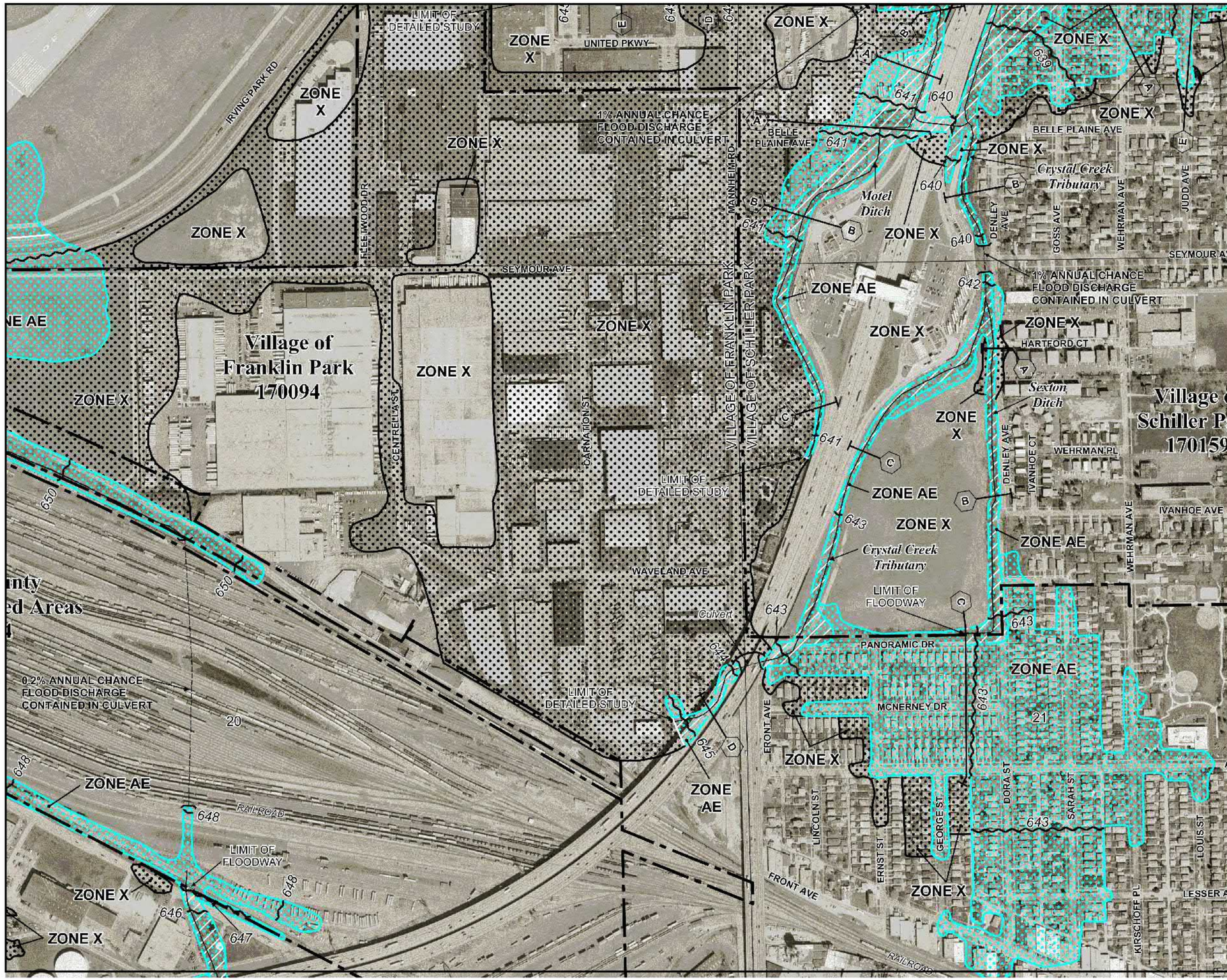
MAP NUMBER
17031C0359J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

JOINS PANEL 0378

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'

0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0359J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 359 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHICAGO, CITY OF	170074	0359	J
COOK COUNTY	170054	0359	J
FRANKLIN PARK, VILLAGE OF	170094	0359	J
SCHILLER PARK, VILLAGE OF	170159	0359	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER 17031C0359J

MAP REVISED AUGUST 19, 2008

Federal Emergency Management Agency

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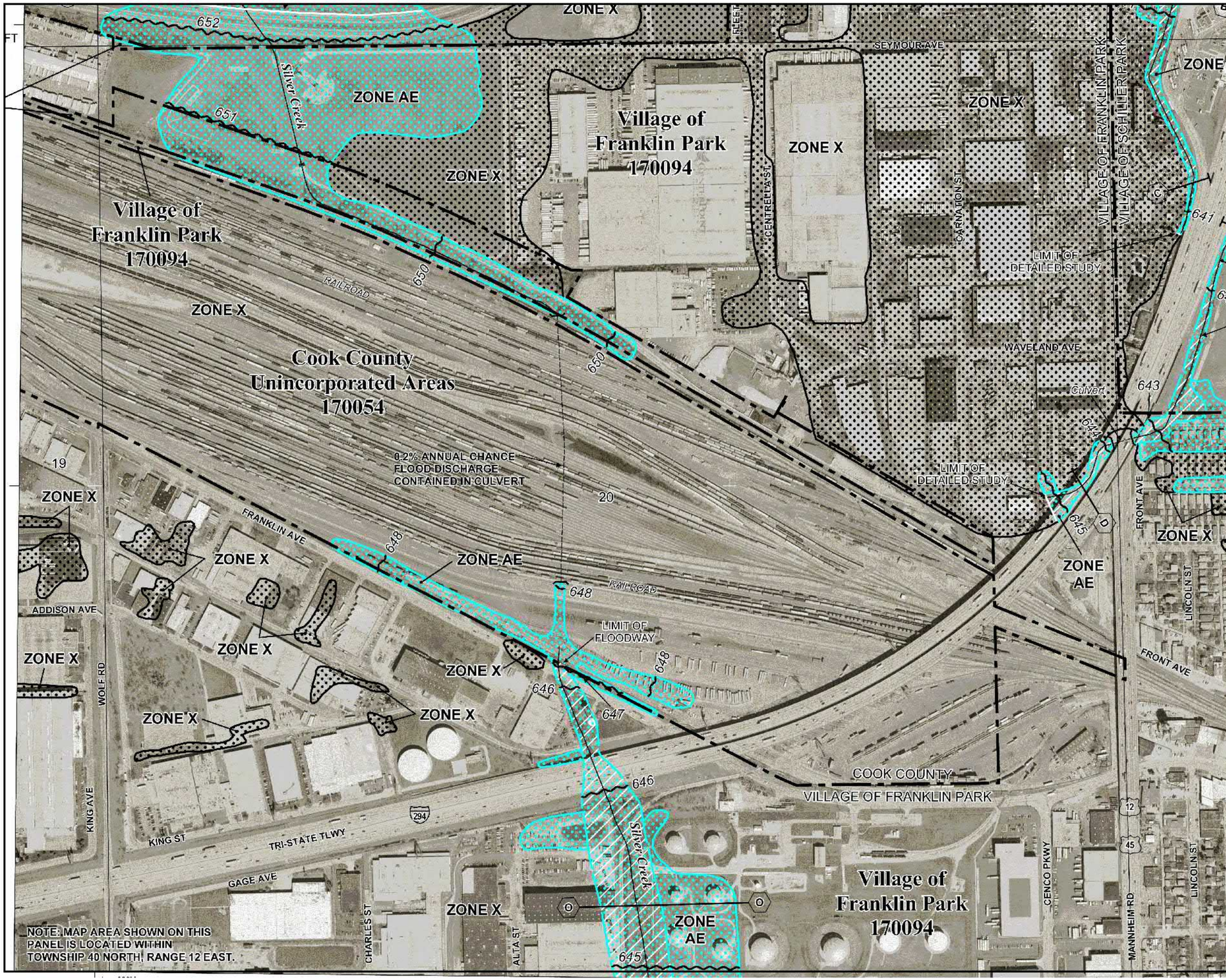

MAP SCALE 1" = 500'

0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0359J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 359 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHICAGO, CITY OF	170074	0359	J
COOK COUNTY	170054	0359	J
FRANKLIN PARK, VILLAGE OF	170094	0359	J
SCHILLER PARK, VILLAGE OF	170159	0359	J

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MAP NUMBER
17031C0359J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

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MAP SCALE 1" = 500'

50 0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0358J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 358 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BENSENVILLE, VILLAGE OF	170200	0358	J
CHICAGO, CITY OF	170074	0358	J
COOK COUNTY	170054	0358	J
FRANKLIN PARK, VILLAGE OF	170094	0358	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0358J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

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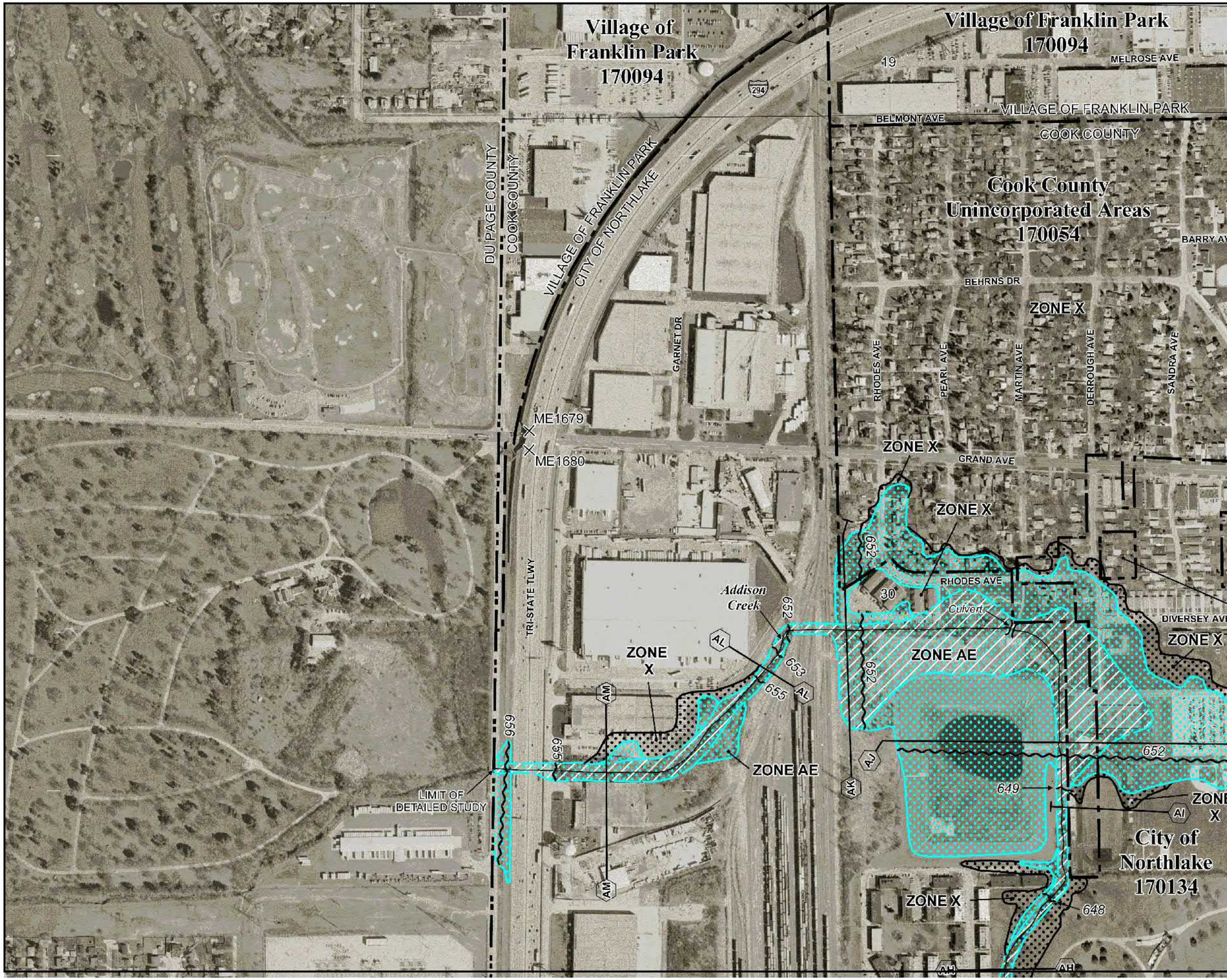

MAP SCALE 1" = 500'

0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0366J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 366 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COOK COUNTY	170054	0366	J
FRANKLIN PARK, VILLAGE OF	170094	0366	J
NORTHLAKE, CITY OF	170134	0366	J

Notice to User: **The Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0366J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

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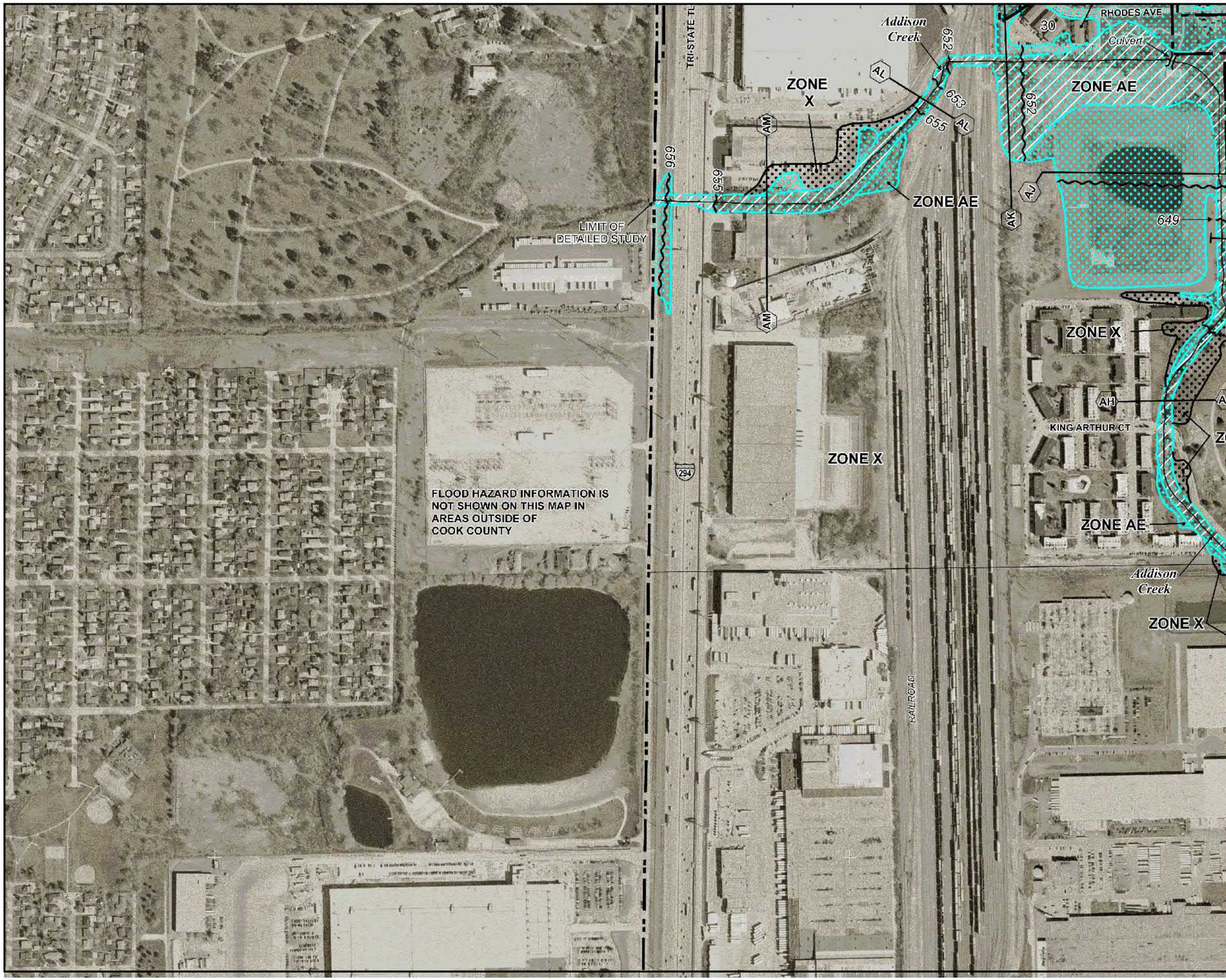

MAP SCALE 1" = 500'

0 500 1000 FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0366J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 366 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COOK COUNTY	170054	0366	J
FRANKLIN PARK, VILLAGE OF	170094	0366	J
NORTHLAKE, CITY OF	170134	0366	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0366J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

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5.4 WATERWAY INFORMATION TABLES

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DESIGN WATERWAY INFORMATION TABLE

Route:	I-294	**S.N. Exist:**	016-2746 (Br. No.289C)	**Computed by:**	JAD	**Date:**	10/27/2017
Section:	RR-14-4224	**S.N. Prop:**		**Checked by:**	BJW	**Date:**	11/28/2017
County:	Cook						
Station:	1948+45	**Waterway:**	Silver Creek				

Existing Low Grade Elevation : 660.53-ft @ Sta. 1942+22.98

Drainage Area = 4.87 Sq.Mi.

Proposed Low Grade Elevation: 660.54-ft @ Sta. 1942+22.98

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft)		Natural H.W.E.	Head (ft)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	174	158	158	643.8	0.0	0.0	643.8	643.8
Design	50	399	190	190	645.1	0.0	0.0	645.1	645.1
Base	100	659	192	192	646.3	0.2	0.2	646.4	646.4
OVT (E)	(1)								0.0
OVT (P)	(1)								0.0
Max Calc	500	1,436	192	192	648.2	1.4	1.4	649.6	649.6

10-Year Velocity through Existing Structure = 1.1 fps

10-Year Velocity through Proposed Structure = 1.1 fps

OVT = Overtopping Event

(E) Existing (P) Proposed

(1) There is no overtopping of the bridge or roadway up to the 500-year discharge rate.

DATUM: NAVD 1988

ALL-TIME H.W.E & DATA:

SCOPE OF WORK:

EXISTING STRUCTRURE

Bridge or Culvert Type:	Box
Cell Dimensions (WxH):	12' x 8'
# of Spans\Cells:	2
Length:	218'
U/S Flowline:	637.2
D/S Flowline:	637.2 (E) 637.5 (W)
Skew:	10 deg
Low EOP:	660.53

PROPOSED STRUCTURE

Bridge or Culvert Type:	Box
Cell Dimensions (WxH):	12' x 8'
# of Spans\Cells:	2
Length:	238' (20' U/S Extension)
U/S Flowline:	637.2
D/S Flowline:	637.2 (W) 637.5 (E)
Skew:	10 deg
Low EOP:	660.54

EXISTING DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

PROPOSED DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

DESIGN WATERWAY INFORMATION TABLE

Route:	I-294	**S.N. Exist:**	016-2745 (Br. No. 393C)	**Computed by:**	JAD	**Date:**	6/6/2017
Section:	RR-14-4224	**S.N. Prop:**		**Checked by:**	BJW	**Date:**	11/28/2017
County:	Cook						
Station:	2030+55	**Waterway:**	Crystal Creek				

Existing Low Grade Elevation : 642.7-ft @ Sta. 2038+60

Drainage Area = 0.75 Sq.Mi. Proposed Low Grade Elevation: 642.5-ft @ Sta. 2038+60

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft)		Natural H.W.E.	Head (ft)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	120	67	67	636.0	0.0	0.0	636.0	636.0
Design	50	194	91	91	637.2	0.1	0.1	637.3	637.3
Base	100	242	98	98	637.6	0.1	0.1	637.7	637.7
OVT (E)	(1)								
OVT (P)	(1)								
Base	500	324	116	116	638.5	0.1	0.1	638.6	638.6

10-Year Velocity through Existing Structure = 1.8 fps

10-Year Velocity through Proposed Structure = 1.8 fps

OVT = Overtopping Event
(E) Existing (P) Proposed

(1) There is no overtopping of the bridge or roadway up to the 500-year discharge rate.

DATUM: NAVD 1988
ALL-TIME H.W.E & DATA:

SCOPE OF WORK:

EXISTING STRUCTRURE

Bridge or Culvert Type:	Box
Cell Dimensions (WxH):	10' x 7'
# of Spans\Cells:	2
Length:	308'
U/S Flowline:	632.7
D/S Flowline:	631.5
Skew:	13 deg
Low EOP:	642.7

PROPOSED STRUCTURE

Bridge or Culvert Type:	Box
Cell Dimensions (WxH):	10' x 7'
# of Spans\Cells:	2
Length:	318' (D/S Extension)
U/S Flowline:	632.7
D/S Flowline:	631.46
Skew:	13 deg
Low EOP:	642.5

EXISTING DROPBOX

Dimensions:	NA
Drop:	

PROPOSED DROPBOX

Dimensions:	NA
Drop:	

DESIGN WATERWAY INFORMATION TABLE

Route:	I-294	**S.N. Exist:**	016-2744 (Br. No. 394C)	**Computed by:**	JAD	**Date:**	6/6/2017
Section:	RR-14-4224	**S.N. Prop:**		**Checked by:**	BJW	**Date:**	11/28/2017
County:	Cook						
Station:	Rt Sta 2012+30 to 2021+30	**Waterway:**	Sister Steam (Crystal Creek Trib)				

Existing Low Grade Elevation : 640.67-ft @ Sta. 2009+62.72

Drainage Area = 0.81 Sq.Mi.

Proposed Low Grade Elevation: 640.11-ft @ Sta. 2009+20

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft)		Natural H.W.E.	Head (ft)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	188	75	75	636.4	0.0	0.0	636.4	636.4
Design	50	293	104	104	637.9	0.2	0.2	638.1	638.1
Base	100	347	107	107	638.3	0.5	0.5	638.8	638.8
OVT (E)	(1)							0.0	0.0
OVT (P)	(1)							0.0	0.0
Base	500	414	107	107	638.6	0.6	0.6	639.2	639.2

10-Year Velocity through Existing Structure = 2.7 fps

10-Year Velocity through Proposed Structure = 2.7 fps

OVT = Overtopping Event
(E) Existing (P) Proposed

(1) There is no overtopping of the bridge or roadway up to the 500-year discharge rate.

DATUM: NAVD 1988
ALL-TIME H.W.E & DATA:

SCOPE OF WORK:

EXISTING STRUCTRURE

Bridge or Culvert Type:	Box
Cell Dimensions (WxH):	6.5' x 5.5'
# of Spans\Cells:	3
Length:	883'
U/S Flowline:	632.6
D/S Flowline:	631.7
Skew:	NA
Low EOP:	640.67

PROPOSED STRUCTURE

Bridge or Culvert Type:	Box	
Cell Dimensions (WxH):	6.5' x 5.5'	
# of Spans\Cells:	3	
Length:	883'	(Replace in kind)
U/S Flowline:	632.6	
D/S Flowline:	631.7	
Skew:	NA	
Low EOP:	640.11	

EXISTING DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

PROPOSED DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

DESIGN WATERWAY INFORMATION TABLE

Route:	I-294	**S.N. Exist:**		**Computed by:**	JAD	**Date:**	10/26/2017
Section:	RR-14-4224	**S.N. Prop:**		**Checked by:**	BJW	**Date:**	11/28/2017
County:	Cook						
Station:	Sta 2010+87	**Waterway:**	Crystal Creek Trib				

Existing Low Grade Elevation : 641.1-ft @ Sta. 2010+46

Drainage Area = 0.27 Sq.Mi. Proposed Low Grade Elevation: 641.7-ft @ Sta. 2009+92

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft)		Natural H.W.E.	Head (ft)(2)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	67	15	15	636.5	0.3	0.3	636.8	636.8
Design	50	96	20	20	638.0	1.0	1.0	639.0	639.0
Base	100	113	20	20	638.4	1.6	1.5	640.0	639.9
OVT (E)	(1)							0.0	0.0
OVT (P)	(1)							0.0	0.0
Base	500	148	20	20	638.8	2.5	2.5	641.3	641.3

10-Year Velocity through Existing Structure = 4.3 fps

10-Year Velocity through Proposed Structure = 4.4 fps

OVT = Overtopping Event
(E) Existing (P) Proposed

(1) There is no overtopping of the bridge or roadway up to the 500-year discharge rate.
(2) Head is combined head of this culvert and the triple box Rt I -294 Sta 2012+30 to 2021+30

DATUM: NAVD 1988
ALL-TIME H.W.E & DATA:

SCOPE OF WORK:

EXISTING STRUCTRURE

Bridge or Culvert Type:	RCP
Cell Dimensions (WxH):	60" dia
# of Spans\Cells:	1
Length:	255'
U/S Flowline:	632.9
D/S Flowline:	632.3
Skew:	18 deg
Low EOP:	641.1

PROPOSED STRUCTURE

Bridge or Culvert Type:	RCP
Cell Dimensions (WxH):	60" dia
# of Spans\Cells:	
Length:	275' (20' D/S Extension)
U/S Flowline:	632.9
D/S Flowline:	632.25
Skew:	18 deg
Low EOP:	641.7

EXISTING DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

PROPOSED DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

DESIGN WATERWAY INFORMATION TABLE

Route:	I-294	**S.N. Exist:**		**Computed by:**	JAD	**Date:**	10/18/2017
Section:	RR-14-4224	**S.N. Prop:**		**Checked by:**	BJW	**Date:**	11/28/2017
County:	Cook						
Station:	Sta 2010+87	**Waterway:**	Crystal Creek Trib				

Existing Low Grade Elevation : 641.1-ft @ Sta. 2010+46

Drainage Area = 0.27Sq.Mi. Proposed Low Grade Elevation: 641.7-ft @ Sta. 2009+92

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft)		Natural H.W.E.	Head (ft)(2)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Ten-Year	10	67	15	31	636.5	0.3	0.0	636.8	636.5
Design	50	96	20	39	638.0	1.0	0.4	639.0	638.4
Base	100	113	20	39	638.4	1.6	0.7	640.0	639.1
OVT (E)	(1)							0.0	0.0
OVT (P)	(1)							0.0	0.0
Base	500	148	20	39	638.8	2.5	1.1	641.3	639.9

10-Year Velocity through Existing Structure = 4.3 fps

10-Year Velocity through Proposed Structure = 2.3 fps

OVT = Overtopping Event
(E) Existing (P) Proposed

(1) There is no overtopping of the bridge or roadway up to the 500-year discharge rate.
(2) Head is combined head of this culvert and the triple box Rt I -294 Sta 2012+30 to 2021+30

DATUM: NAVD 1988
ALL-TIME H.W.E & DATA:

SCOPE OF WORK:

EXISTING STRUCTRURE

Bridge or Culvert Type:	RCP
Cell Dimensions (WxH):	60" dia
# of Spans\Cells:	1
Length:	255'
U/S Flowline:	632.9
D/S Flowline:	632.3
Skew:	18 deg
Low EOP:	641.1

PROPOSED STRUCTURE

Bridge or Culvert Type:	RCP
Cell Dimensions (WxH):	60" dia
# of Spans\Cells:	2
Length:	275' (20' D/S Extension, Add Pipe)
U/S Flowline:	632.9
D/S Flowline:	632.25
Skew:	18 deg
Low EOP:	641.7

EXISTING DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

PROPOSED DROPBOX

Dimensions:	NA
Drop:	
Weir Elevation:	

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5.5 PROPOSED DRAINAGE PLAN AND PROFILE

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LEGEND

BOUNDARY LINES/SYMBOLS

- EXISTING REFERENCE LINE/ CENTERLINE AND STATIONING — 1585+00
- PROPOSED REFERENCE LINE/ CENTERLINE AND STATIONING — 1585+00
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- WATERSHED BOUNDARY (HUC-10)
- INTERPRETED DRAINAGE AREA TO OUTLET/SUB-DIVIDE
- FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- STREAM
- WETLAND, WOUS, STORMWATER CONVEYANCE
- EXISTING DETENTION POND — POND–30A
- PROPOSED DETENTION POND — POND–PR–30A

EXISTING DRAINAGE

- INLET
- CATCH BASIN
- MANHOLE
- HEADWALL/ENDWALL
- FLARED END SECTION
- CULVERT SIZE - TYPE — 30" RCP
- STORM SEWER — 24" CMP
- DITCH
- STORM SEWER TO BE ABANDONED — AB
- STORM STRUCTURE TO BE ADJUSTED — A
- STORM SEWER TO BE CLEANED — C

PROPOSED DRAINAGE

- CATCH BASIN
- MANHOLE
- MEDIAN STRUCTURE
- HEADWALL/ENDWALL
- CULVERT
- STORM SEWER
- DRAINAGE (BY OTHERS) (SEE CONTRACT RR-13-4116)
- CHECK DAM
- DITCH

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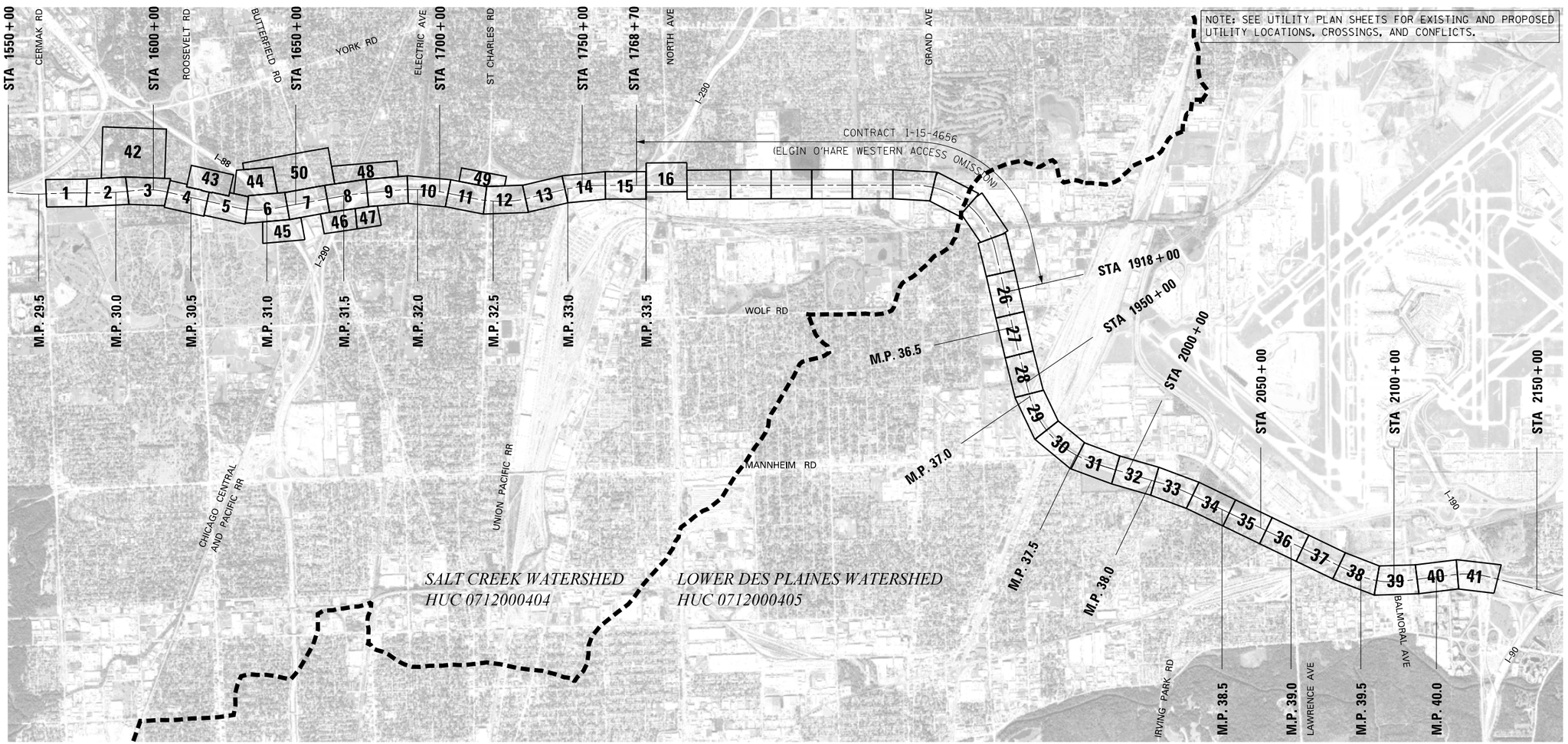
SCALE IN FEET



DRAWN BY KLG	SCALE 1" = 2000'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-1 PROPOSED DRAINAGE LEGEND AND SHEET INDEX

SHEET NO. PDI-01
DRAWING NO. 53 OF 196

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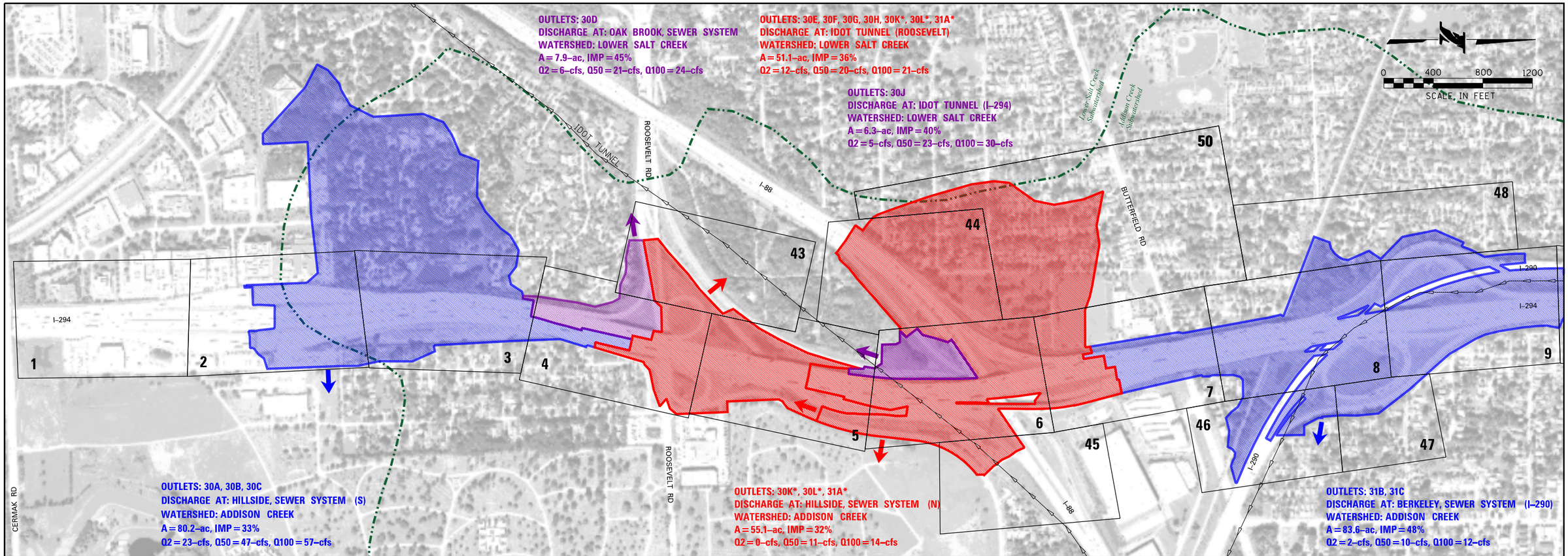

MAJOR OUTFALLS

OUTLETS	OUTFALL LOCATION	WATERSHED	AREA (AC)	ALLOWABLE / PROPOSED RUNOFF (CFS)		
				2-YR	50-YR	100-YR
30A 30B 30C	HILLSIDE, SEWER SYSTEM (S)	ADDISON CREEK	80.15	23 / 23	47	57 / 57
30D	OAK BROOK, SEWER SYSTEM	LOWER SALT CREEK	7.90	6 / 6	21	24 / 24
30E 30F 30G 30H 30K* 30L* 31A*	IDOT TUNNEL (ROOSEVELT)	LOWER SALT CREEK	51.08	17 / 12	20	25 / 21
30J	IDOT TUNNEL (I-294)	LOWER SALT CREEK	6.31	12 / 5	24	32 / 30
30K* 30L* 31A*	HILLSIDE, SEWER SYSTEM (N)	ADDISON CREEK	55.08	15 / 0	11	39 / 14
31B 31C	BERKELEY, SEWER SYSTEM (I-290)	ADDISON CREEK	83.55	24 / 2	10	38 / 12

NOTE:
THE RUNOFF FROM THE PROPOSED OUTLETS 30K, 30L, AND 31A IS COLLECTED IN THE PROPOSED DETENTION SYSTEM AT BUCK RD. AND RELEASED AT TWO DIFFERENT LOCATIONS: HILLSIDE SEWER SYSTEM (N) - ASSUMED 70%; AND IDOT TUNNEL (ROOSEVELT) - ASSUMED 30%.

NO MAJOR WATERWAY CROSSINGS

OUTLET SUMMARY

ID	M.P.	STA.	OFF.	DISCHARGE LOCATION	MAJOR OUTFALL	AREA (AC)	IMPERV. (%)	PROPOSED RUNOFF (CFS)		
								2-YR	50-YR	100-YR
30A	30.04	1589+24	RT	POND-30A, STORM SEWER 36-IN	HILLSIDE, SEWER SYSTEM (S)	28.09	60%	48	126	144
30B	30.04	1589+17	LT	POND-30FGP, STORM SEWER 18-IN	HILLSIDE, SEWER SYSTEM (S)	49.96	19%	6	23	29
30C	30.32	1604+00	RT	STORM SEWER	HILLSIDE, SEWER SYSTEM (S)	2.09	0%	6	8	9
30D	30.47	1611+80	LT	ROADWAY DITCH, ROOSEVELT RD.	OAK BROOK, SEWER SYSTEM	7.90	45%	6	21	24
30E	30.59	1618+13	LT	POND-30C, STORM SEWER 24-IN	IDOT TUNNEL (ROOSEVELT)	8.17	18%	11	20	21
30F	30.63	1620+00	RT	POND-30D, STORM SEWER 18-IN	IDOT TUNNEL (ROOSEVELT)	5.83	56%	3	5	6
30G	30.73	1625+50	RT	POND-30G, STORM SEWER 36-IN	IDOT TUNNEL (ROOSEVELT)	10.75	56%	11	21	22
30H	30.64	1621+00	LT	POND-30F, STORM SEWER	IDOT TUNNEL (ROOSEVELT)	2.70	10%	1	4	5
30J	30.88	11633+44	LT	STORM SEWER 24-IN	IDOT TUNNEL (I-294)	6.31	40%	5	23	30
30K	30.90	11634+55	RT	POND-PR-30K, STORM SEWER 30-IN	HILLSIDE, SEWER SYSTEM (N)	17.80	55%	24	61	73
30L	30.99	11639+32	LT	STORM SEWER (I-88) 60-IN	HILLSIDE, SEWER SYSTEM (N)	56.24	21%	12	60	77
31A	31.09	11644+30	RT	STORM SEWER (RAMP-D) 42-IN	IDOT TUNNEL (BUCK RD)	4.65	80%	0	0	0
31B	31.54	11668+50	RT	POND-31C, STORM SEWER 36-IN	BERKELEY, SEWER SYSTEM (I-290)	43.51	46%	16	36	40
31C	31.54	11668+44	RT	POND-PR-31D, STORM SEWER 30-IN	BERKELEY, SEWER SYSTEM (I-290)	40.04	49%	28	112	145

NOTES:
UNDER PROPOSED CONDITIONS, 31A DOES NOT DISCHARGE AT THE IDOT TUNNEL (LOWER SALT CREEK SUBWATERSHED). IT DISCHARGES INTO THE PROPOSED POND AT BUCK RD. (PR-30K).
UNDER PROPOSED CONDITIONS, 30K 30L DOES NOT ONLY DISCHARGE AT THE HILLSIDE SEWER SYSTEM N (ADDISON CREEK SUBWATERSHED). IT ALSO DISCHARGES INTO THE PROPOSED POND AT BUCK RD. (PR-30K).

DRAWN BY KLG SCALE 1" = 400'
CHECKED BY SN DATE 12/22/2017

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS
NO. DATE DESCRIPTION

RR-14-4224
EXHIBIT A5.5-2
PROPOSED DRAINAGE - OUTLET SUMMARY

SHEET NO. PDS-01
DRAWING NO. 54 OF 196

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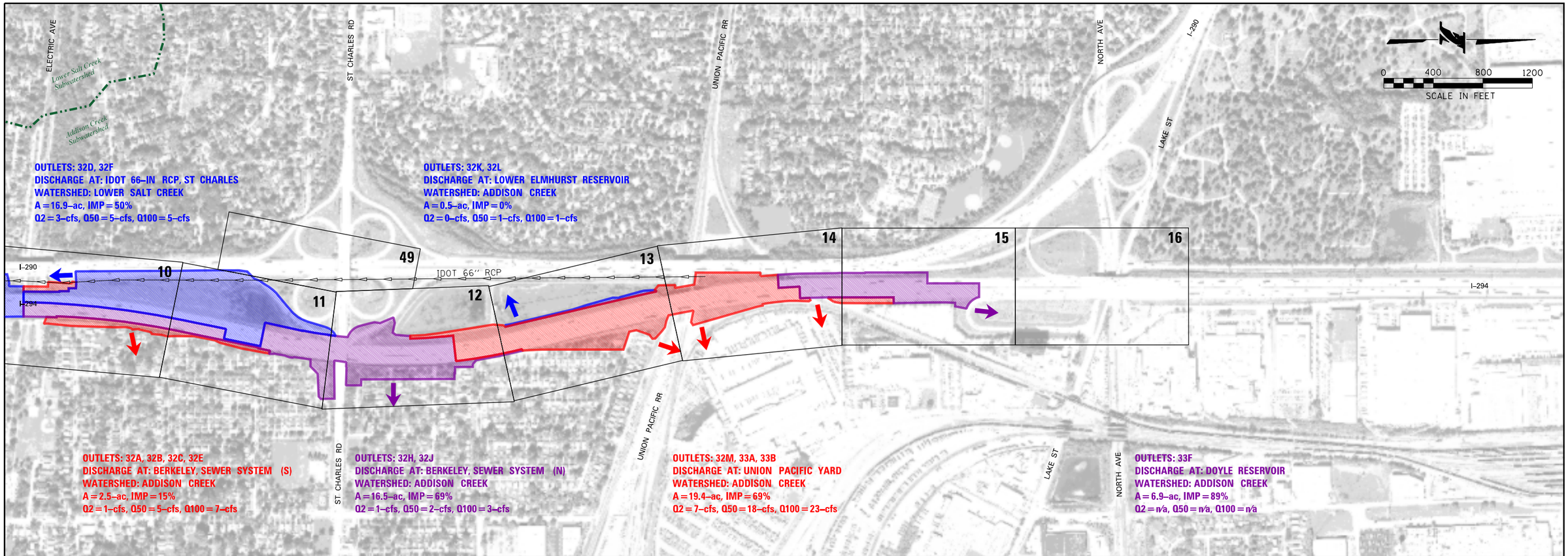

MAJOR OUTFALLS

OUTLETS	OUTFALL LOCATION	WATERSHED	AREA (AC)	ALLOWABLE / PROPOSED RUNOFF (CFS)		
				2-YR	50-YR	100-YR
32A 32B 32C 32E 32G	BERKELEY, SEWER SYSTEM (S)	ADDISON CREEK	2.46	4 / 1	5	10 / 7
32D 32F	IDOT 66-IN RCP, ST CHARLES	LOWER SALT CREEK	16.86	3 / 3	5	5 / 5
32H 32J	BERKELEY, SEWER SYSTEM (N)	ADDISON CREEK	16.50	1 / 1	2	7 / 3
32K 32L	LOWER ELMHURST RESERVOIR	ADDISON CREEK	0.49	1 / 0	1	20 / 1
32M 33A 33B	UNION PACIFIC YARD	ADDISON CREEK	19.40	22 / 7	18	58 / 23
33C 33D 33E 33F	DOYLE RESERVOIR	ADDISON CREEK	13.64	-----	-----	-----

NOTE:
THE DOYLE RESERVOIR OUTFALL AND OUTLETS WILL BE ANALYZED AS PART OF THE CONTRACT I-15-4656 (ELGIN O-HARE WESTERN ACCESS PROJECT).

NO MAJOR WATERWAY CROSSINGS

OUTLET SUMMARY

ID	M.P.	STA.	OFF.	DISCHARGE LOCATION	MAJOR OUTFALL	AREA (AC)	IMPERV. (%)	PROPOSED RUNOFF (CFS)		
								2-YR	50-YR	100-YR
32A	32.01	11693+00	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (S)	0.64	57%	1	3	4
32B	32.14	11700+00	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (S)	0.97	0%	0	1	2
32C	32.20	11703+00	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (S)	0.52	0%	0	1	1
32D	32.34	11710+50	LT	ROADWAY DITCH, STORM SEWER 36-IN	IDOT 66-IN RCP, ST CHARLES	7.85	65%	14	44	55
32F	32.29	11708+00	LT	POND-PR-32F-99, STORM SEWER 15-IN	IDOT 66-IN RCP, ST CHARLES	9.01	37%	4	20	28
32E	32.33	11710+00	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (S)	0.33	0%	0	0	1
32G	32.44	11716+00	RT	ROADWAY DITCH, ST.CHARLES RD.	BERKELEY, SEWER SYSTEM (S)	0.00	0%	0	0	0
32H	32.53	11720+50	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (N)	16.38	69%	1	2	3
32J	32.68	11728+50	RT	STORM SEWER	BERKELEY, SEWER SYSTEM (N)	0.13	0%	0	0	0
32K	32.72	11730+50	LT	ROADWAY DITCH	LOWER ELMHURST RESERVOIR	0.34	0%	0	0	0
32L	32.90	11740+00	LT	ROADWAY DITCH	LOWER ELMHURST RESERVOIR	0.16	0%	0	0	0
32M	32.94	11742+40	RT	STORM SEWER 3-24-IN	UNION PACIFIC YARD	14.00	75%	1	4	4
33A	33.01	11746+00	RT	STORM SEWER 48-IN	UNION PACIFIC YARD	3.26	40%	4	10	12
33B	33.18	11755+00	RT	STORM SEWER 18-IN	UNION PACIFIC YARD	2.13	75%	2	6	9
33C	33.47	11770+00	LT	ROADWAY DITCH	DOYLE RESERVOIR	2.02	100%	-----	-----	-----
33D	33.60	11777+00	LT	STORM SEWER (W NORTH AVE)	DOYLE RESERVOIR	3.14	59%	-----	-----	-----
33E	33.61	11777+50	RT	STORM SEWER (E NORTH AVE)	DOYLE RESERVOIR	1.55	10%	-----	-----	-----
33F	33.43	11768+00	RT	STORM SEWER (E NORTH AVE)	DOYLE RESERVOIR	6.92	89%	-----	-----	-----

NOTE: THE DOYLE RESERVOIR OUTFALL AND OUTLETS WILL BE ANALYZED AS PART OF THE CONTRACT I-15-4656 (ELGIN O-HARE WESTERN ACCESS PROJECT).

DRAWN BY KLG SCALE 1" = 400'
CHECKED BY SN DATE 12/22/2017

JACOBS
525 W. Monroe Suite 1600
Chicago, Illinois 60661
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Fax: 312.251.3015

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS
NO. DATE DESCRIPTION

RR-14-4224
EXHIBIT A5.5-2
PROPOSED DRAINAGE - OUTLET SUMMARY

SHEET NO. PDS-02
DRAWING NO. 55 OF 196

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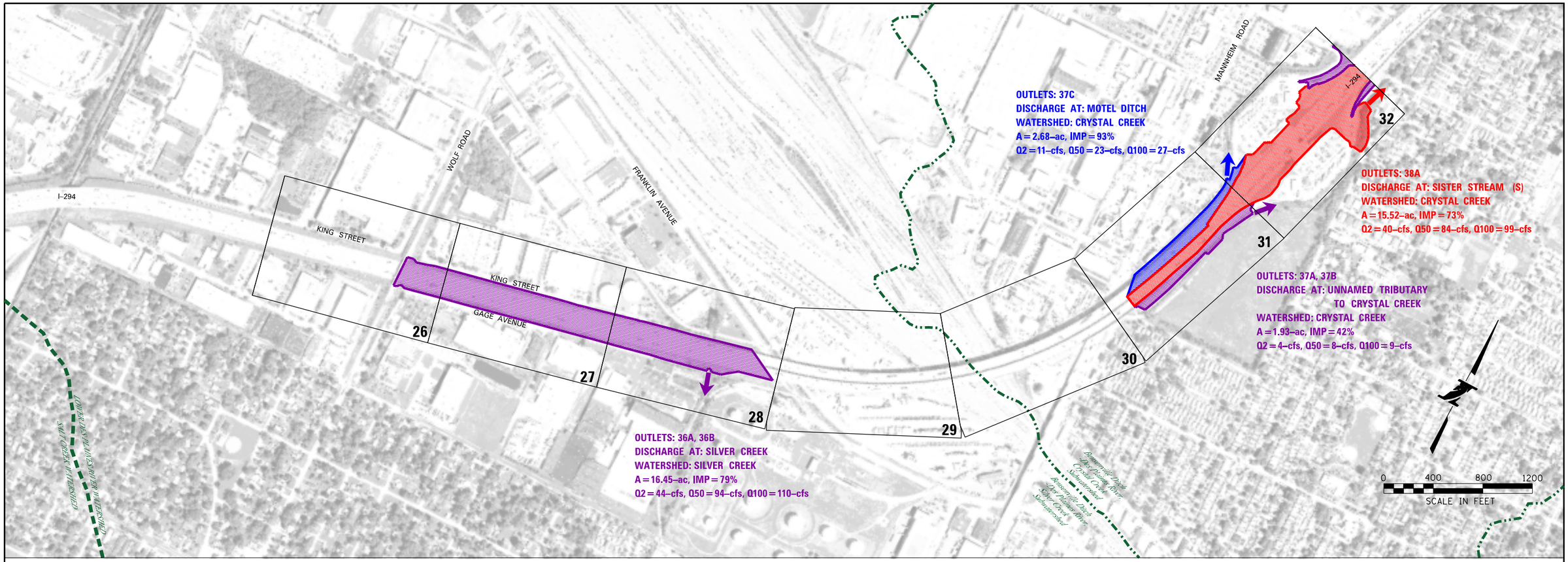

MAJOR OUTFALLS

OUTLETS	OUTFALL LOCATION	WATERSHED	AREA (AC)	ALLOWABLE / PROPOSED RUNOFF (CFS)		
				2-YR	50-YR	100-YR
36A 36B	SILVER CREEK	SILVER CREEK	16.45	39 / 44	94	98 / 110
37A 37B	CRYSTAL CREEK	CRYSTAL CREEK	1.93	9 / 4	8	23 / 9
37C	CRYSTAL CREEK	CRYSTAL CREEK	2.68	8 / 11	23	19 / 27
38A	CRYSTAL CREEK	CRYSTAL CREEK	15.52	35 / 48	103	87 / 121

MAJOR WATERWAY CROSSINGS

M.P.	STA.	WOUS	TYPE	LENGTH	TRIB. AREA (SQ MI)	RUNOFF (CFS)		WSEL	
						50-YR	100-YR	50-YR	100-YR
36.83	1948+25	YES	2 - 12'x8' BOX CULVERTS	238'	4.87	399	659	646	647

OUTLET SUMMARY

ID	M.P.	STA.	OFF.	DISCHARGE LOCATION	MAJOR OUTFALL	AREA (AC)	IMPERV. (%)	PROPOSED RUNOFF (CFS)		
								2-YR	50-YR	100-YR
36A	36.84	1948+31	RT	PR STORM SEWER, 60-IN	SILVER CREEK	9.41	80%	25	54	63
36B	36.84	1948+45	RT	EX 12'x8' TWIN BOX CULVERT	SILVER CREEK	7.05	78%	19	40	47
37A	37.64	1990+35	RT	PR STORM SEWER, 36-IN	CRYSTAL CREEK	1.01	29%	2	5	5
37B	37.72	1994+68	RT	PR STORM SEWER, 36-IN	CRYSTAL CREEK	0.91	57%	3	6	7
37C	37.76	1996+25	LT	PR STORM SEWER, 24-IN	CRYSTAL CREEK	2.68	93%	11	23	27
38A	37.98	2008+33	RT	EX STORM SEWER, 42-IN	CRYSTAL CREEK	15.52	73%	40	84	99

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-2
PROPOSED DRAINAGE - OUTLET SUMMARY

SHEET NO. PDS-03
DRAWING NO. 56 OF 196

LAYOUT	KRH	04/14/17
DRAWN	KRH	04/14/17
REVIEWED	JJW	07/21/17

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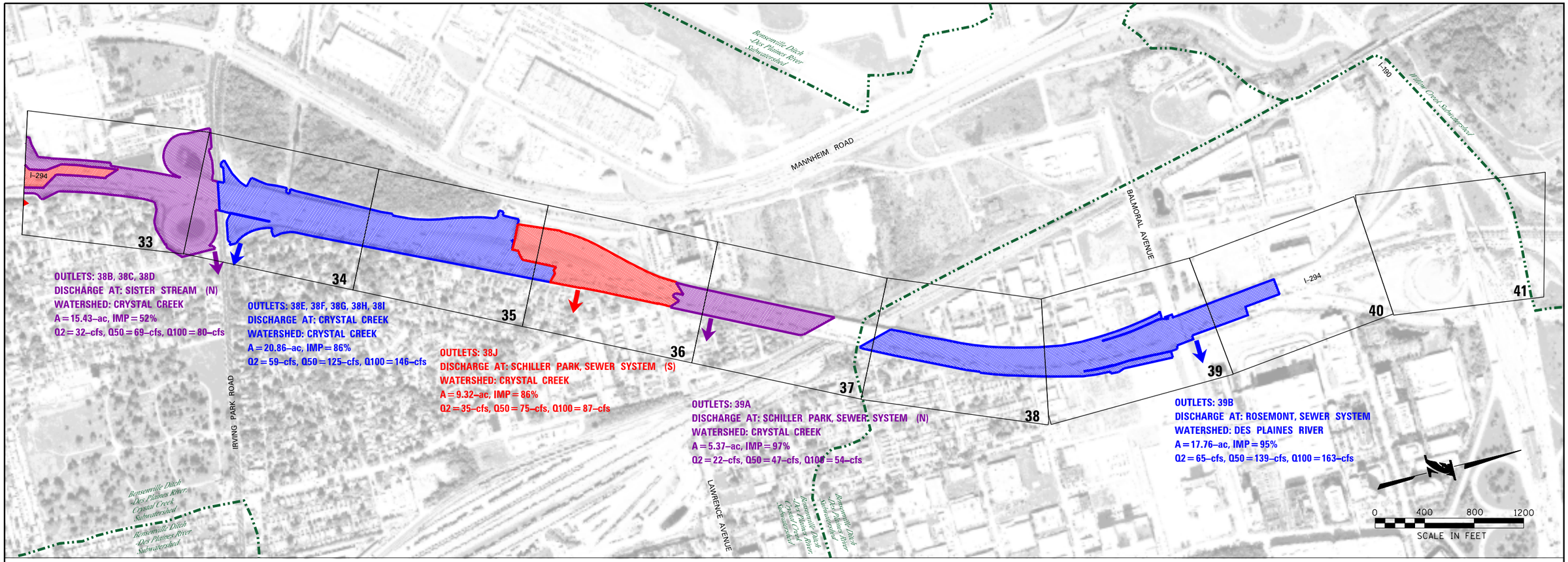

MAJOR OUTFALLS

OUTLETS	OUTFALL LOCATION	WATERSHED	AREA (AC)	ALLOWABLE / PROPOSED RUNOFF (CFS)		
				2-YR	50-YR	100-YR
38B 38C 38D	CRYSTAL CREEK	CRYSTAL CREEK	15.43	38 / 32	69	96 / 80
38E 38F 38G 38H 38I	CRYSTAL CREEK	CRYSTAL CREEK	20.86	52 / 59	125	130 / 146
38J	SCHILLER PARK, SEWER SYSTEM (S)	CRYSTAL CREEK	9.32	36 / 35	75	91 / 87
39A	SCHILLER PARK, SEWER SYSTEM (N)	CRYSTAL CREEK	5.37	21 / 22	47	54 / 54
39B	ROSEMONT, SEWER SYSTEM	DES PLAINES RIVER	17.76	66 / 65	139	164 / 163

MAJOR WATERWAY CROSSINGS

M.P.	STA.	WOUS	TYPE	LENGTH	TRIB. AREA (SQ MI)	RUNOFF (CFS)		WSEL	
						50-YR	100-YR	50-YR	100-YR
38.03	2010+87	YES	60" RCP	256'	0.27	96	113	639	640
38.41	2030+89	YES	2 - 10'x7' BOX CULVERTS	315'	0.75	194	242	637	638

OUTLET SUMMARY

ID	M.P.	STA.	OFF.	DISCHARGE LOCATION	MAJOR OUTFALL	AREA (AC)	IMPERV. (%)	PROPOSED RUNOFF (CFS)		
								2-YR	50-YR	100-YR
38B	38.04	2011+28	RT	EX 60" CULVERT	CRYSTAL CREEK	2.75	60%	8	18	21
38C	38.23	2021+28	RT	EX 6.5'x5.5' TRIPLE BOX CULVERT	CRYSTAL CREEK	5.22	81%	19	41	47
38D	38.33	2026+59	RT	EX 10'x4'/7'x4' TWIN BOX CULVERT	CRYSTAL CREEK	7.45	28%	14	30	36
38E	38.35	2028+03	RT	EX 24" CULVERT	CRYSTAL CREEK	2.12	50%	6	12	14
38F	38.36	2028+10	LT	EX STORM SEWER, 15-IN	CRYSTAL CREEK	0.48	46%	1	3	3
38G	38.40	2030+55	RT	EX 10'x7' TWIN BOX CULVERT	CRYSTAL CREEK	6.39	98%	24	51	60
38H	38.46	2033+80	LT	EX STORM SEWER, 30-IN	CRYSTAL CREEK	3.06	94%	12	26	30
38I	38.49	2034+99	LT	EX STORM SEWER, 48-IN	CRYSTAL CREEK	8.80	84%	30	64	75
38J	38.88	2055+77	RT	EX 38"x24" ELLIPTICAL CULVERT	SCHILLER PARK, SEWER SYSTEM (S)	9.32	86%	35	75	87
39A	39.08	2066+77	RT	EX 36" CULVERT	SCHILLER PARK, SEWER SYSTEM (N)	5.37	97%	22	47	54
39B	39.83	2105+99	RT	EX STORM SEWER, 48-IN	ROSEMONT, SEWER SYSTEM	17.76	95%	65	139	163

DRAWN BY KRH	SCALE 1" = 400'	HANSON	750 Warrenville Rd. Suite 200 Lisle, Illinois 60532 Telephone: 630.990.3800 Fax: 630.990.3801
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-2
PROPOSED DRAINAGE - OUTLET SUMMARY

SHEET NO. PDS-04
DRAWING NO. 57 OF 196

LAYOUT	KRH	04/14/17
DRAWN	KRH	04/14/17
REVIEWED	JJW	07/21/17

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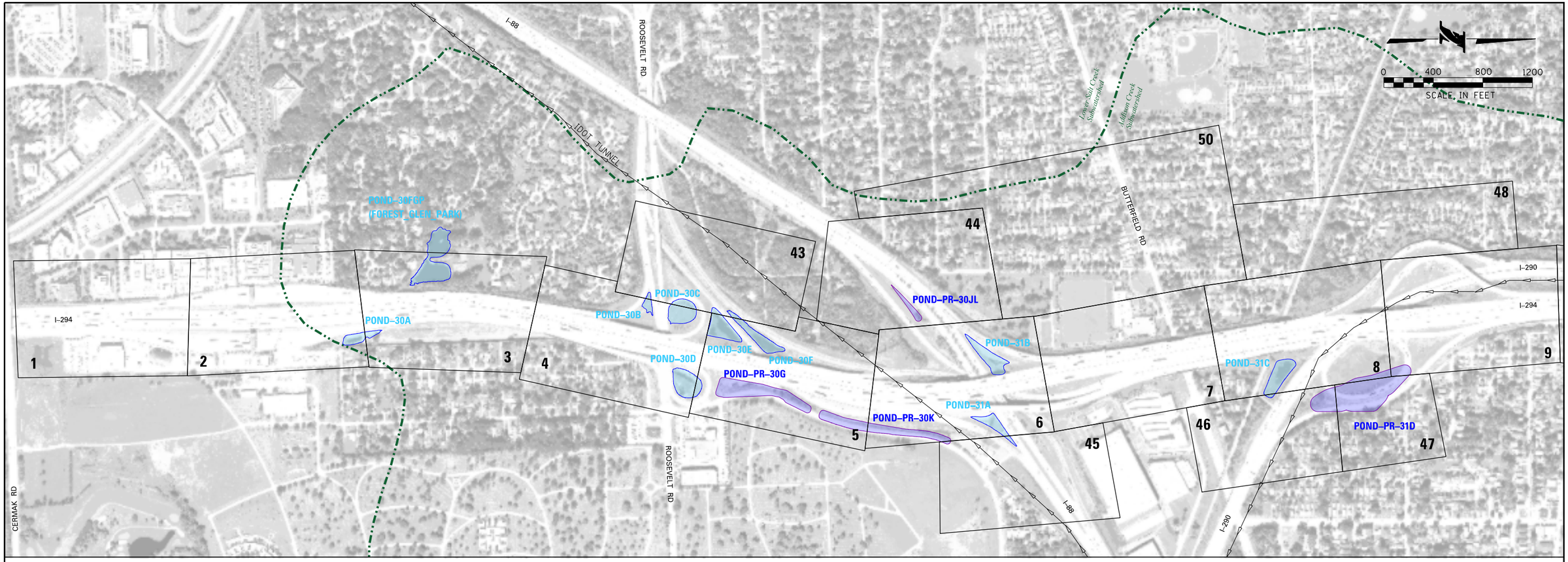


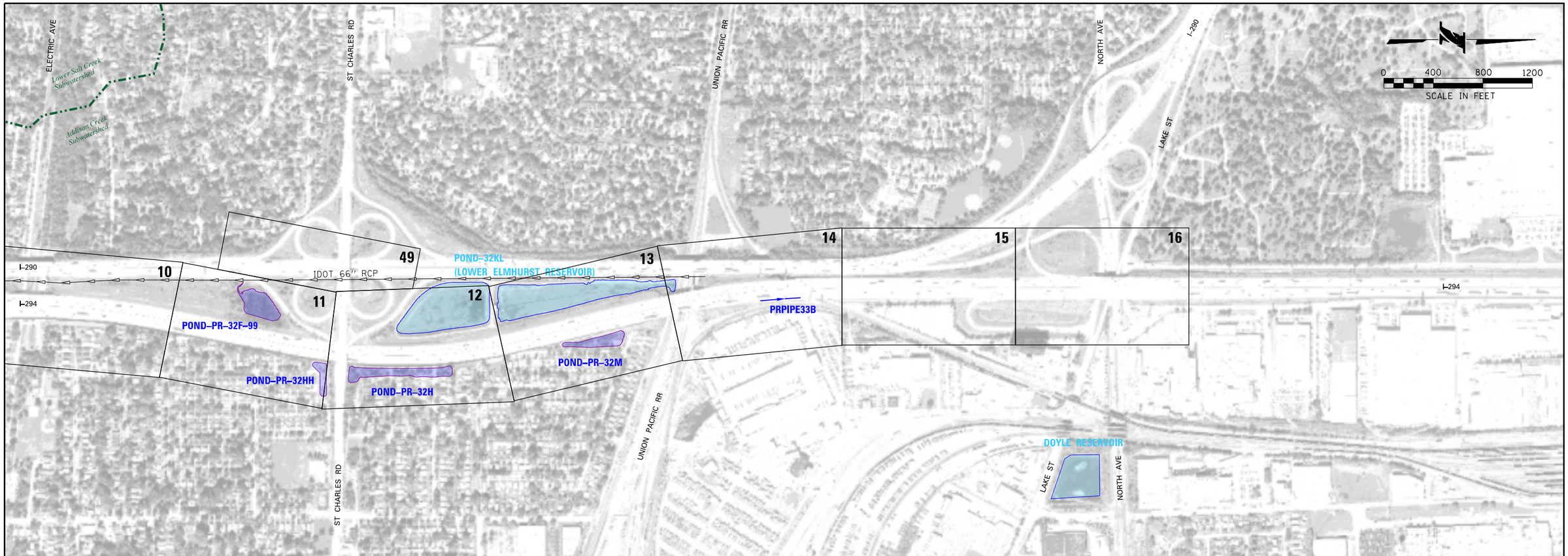
PROPOSED DETENTION

DETENTION ID	DETENTION TYPE	OUTLET AT STA	HWL (FT)	NWL (FT)	REQ. DET. (AC-FT)	PROV. DET. (AC-FT)	REQ. WQV (AC-FT)	PROV. WQV (AC-FT)	DETENTION LOCATION
PR-30G	DRY POND	1625+70 RT	678.00	671.00	1.86	9.21	0.19	0.00	SOUTH CEMETERY, ALONG OLD BUCK RD
PR-30K	DRY POND	11634+50 RT	683.40	675.00	3.05	8.39	0.44	0.00	NORTH CEMETERY, ALONG OLD BUCK RD
PR-31D	WET POND	11668+32 RT	678.00	668.00	17.56	20.54	0.81	3.40	I-290 INTERCHANGE, EAST OF RAMP K

NOTE:
PR-30-JL WILL BE ANALYZED AS PART OF THE CONTRACT RR-13-4116 (REAGAN MEMORIAL TOLLWAY ROADWAY RECONSTRUCTION PROJECT).

EXISTING DETENTION TO REMAIN

DETENTION ID	OUTLET AT STA	BOTTOM ELEV. (FT)	TOP WSEL (FT)	MAXIMUM DEPTH (FT)	VOLUME (CU FT)	VOLUME (AC-FT)	DETENTION LOCATION
POND-30A	1589+40 RT	675.70	685.00	9.30	91,995	2.11	OUTLET AT HAWTHORNE ST., AT PLAZA 35 (CERMAK)
POND-30FGP	1595+50 LT	682.40	684.60	2.20	189,314	4.35	FOREST GLEN PARK, WEST OF PLAZA 35 (CERMAK)
POND-30B	1613+50 LT	674.80	678.00	3.20	7,079	0.16	RAMP-D INFIELD AREA, AT ROOSEVELT RD.
POND-30C	1617+40 LT	675.00	679.00	4.00	62,372	1.43	RAMP-C INFIELD AREA, AT ROOSEVELT RD.
POND-30D	1618+70 RT	672.00	680.00	8.00	221,358	5.08	RAMP-B INFIELD AREA, AT ROOSEVELT RD.
POND-30E	1620+00 LT	668.50	674.00	5.50	135,121	3.10	RAMP-C AND -A(IDOT) INFIELD AREA, AT ROOSEVELT RD.
POND-30F	1621+20 LT	668.00	675.00	7.00	87,670	2.01	IDOT RAMP-C AND -A INFIELD AREA, N OF ROOSEVELT RD.
POND-31A	1641+25 RT	693.50	700.00	6.50	56,769	1.30	RAMP-B AND -J INFIELD AREA, AT EB I-88
POND-31B	1642+60 LT	689.00	699.00	10.00	120,819	2.77	OUTLET AT RAMP-F INFIELD AREA, AT WB I-88
POND-31C	1666+70 RT	674.00	683.00	9.00	242,353	5.56	OUTLET AT I-290 INFIELD AREA, AT C.C.P.R.R.



PROPOSED DETENTION

DETENTION ID	DETENTION TYPE	OUTLET AT STA	HWL (FT)	NWL (FT)	REQ. DET. (AC-FT)	PROV. DET. (AC-FT)	REQ. WQV (AC-FT)	PROV. WQV (AC-FT)	DETENTION LOCATION
PR-32F-99	WETLAND	11708+50 LT	675.00	668.00	5.05	5.07	0.00	0.00	ST. CHARLES EXIT, EAST OF RAMP G
PR-32HH	DRY POND	11716+00 RT	673.50	670.00	0.95	1.07	0.13	0.00	PARK AREA, SOUTH OF ST. CHARLES RD.
PR-32H	WET POND	11720+73 RT	666.80	661.50	4.81	5.85	0.76	1.34	NORTH OF ST. CHARLES, SOUTH OF VICTORIA AVE.
PR-32M	DRY POND	11742+55 RT	668.30	660.00	2.83	4.28	0.39	0.00	SOUTH OF PARK AVE., ALONG VICTORIA AVE.
PRPIPE33B	PIPE 60-IN	11755+35 RT	n/a	n/a	0.13	0.15	0.00	0.00	OUTLET AT UPRR YARD

NOTE:
THE DOYLE RESERVOIR OUTFALL AND OUTLETS WILL BE ANALYZED AS PART OF THE CONTRACT I-15-4656 (ELGIN O-HARE WESTERN ACCESS PROJECT).

EXISTING DETENTION TO REMAIN

DETENTION ID	OUTLET AT STA	BOTTOM ELEV. (FT)	TOP WSEL (FT)	MAXIMUM DEPTH (FT)	VOLUME (CU FT)	VOLUME (AC-FT)	DETENTION LOCATION
POND-32KL	1744+50 LT	658.75	665.00	6.25	1,409,664	32.36	LOWER ELMHURST RESERVOIR

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Fax: 312.251.3015

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224
EXHIBIT A5.5-3
PROPOSED DRAINAGE - DETENTION SUMMARY

SHEET NO. PDD-02
DRAWING NO. 59 OF 196

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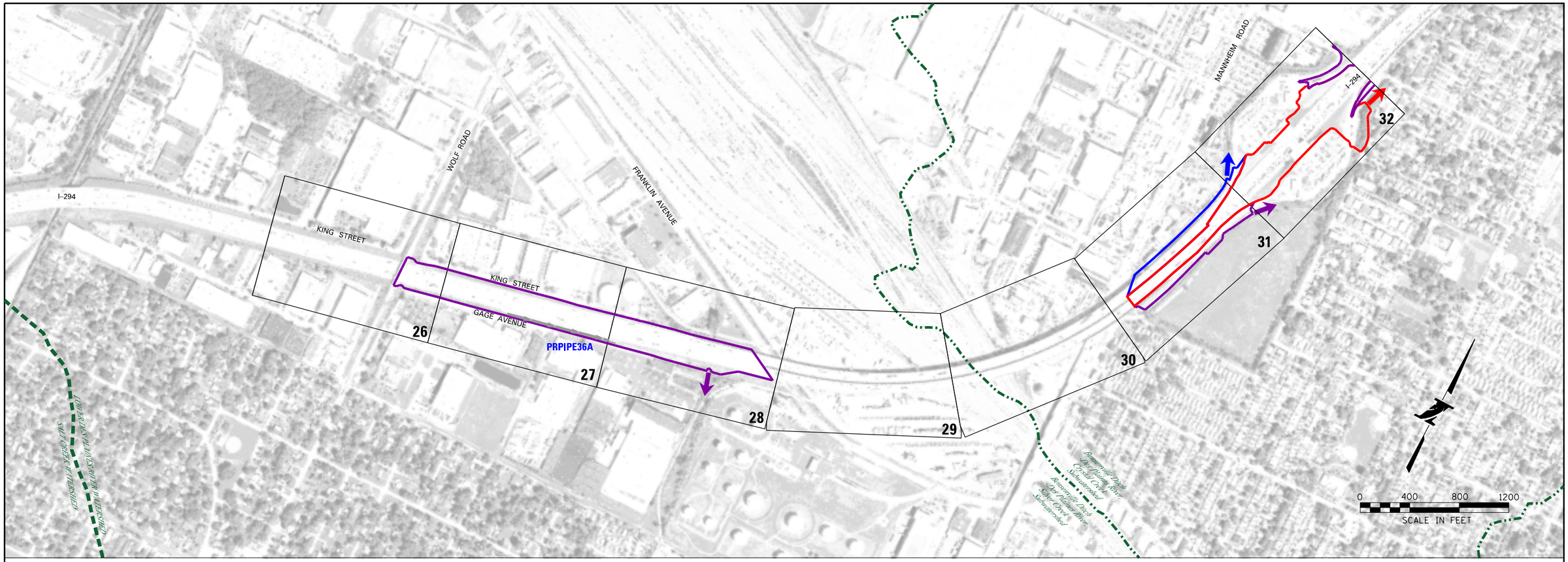

PROPOSED DETENTION

DETENTION ID	DETENTION TYPE	OUTLET AT STA	HWL (FT)	NWL (FT)	REQ. DET. (AC-FT)	PROV. DET. (AC-FT)	REQ. WQV (AC-FT)	PROV. WQV (AC-FT)	DETENTION LOCATION
PRPIPE36A	PIPE	1940+25 RT	647.50	641.50	0.86	1.14	0.13	(*)	SOUTH OF BENSENVILLE BRIDGE ALONG I-294 NB

(*) NOTE: WQV IN SILVER CREEK TO BE PROVIDED BY OTHERS IN WATERSHED IMPROVEMENTS. ALTERNATELY, THIS CAN BE PROVIDED IN SEDIMENT BASINS IN THE COMPENSATORY STORAGE AREA BETWEEN 1941+00 AND 1948+00. SEE THE ALTERNATIVES IN THE CONCEPT DRAINAGE REPORT.

NO EXISTING DETENTION TO REMAIN IDENTIFIED ON THIS SHEET

LAYOUT	KRH	04/14/17
DRAWN	KRH	04/14/17
REVIEWED	JJW	07/21/17

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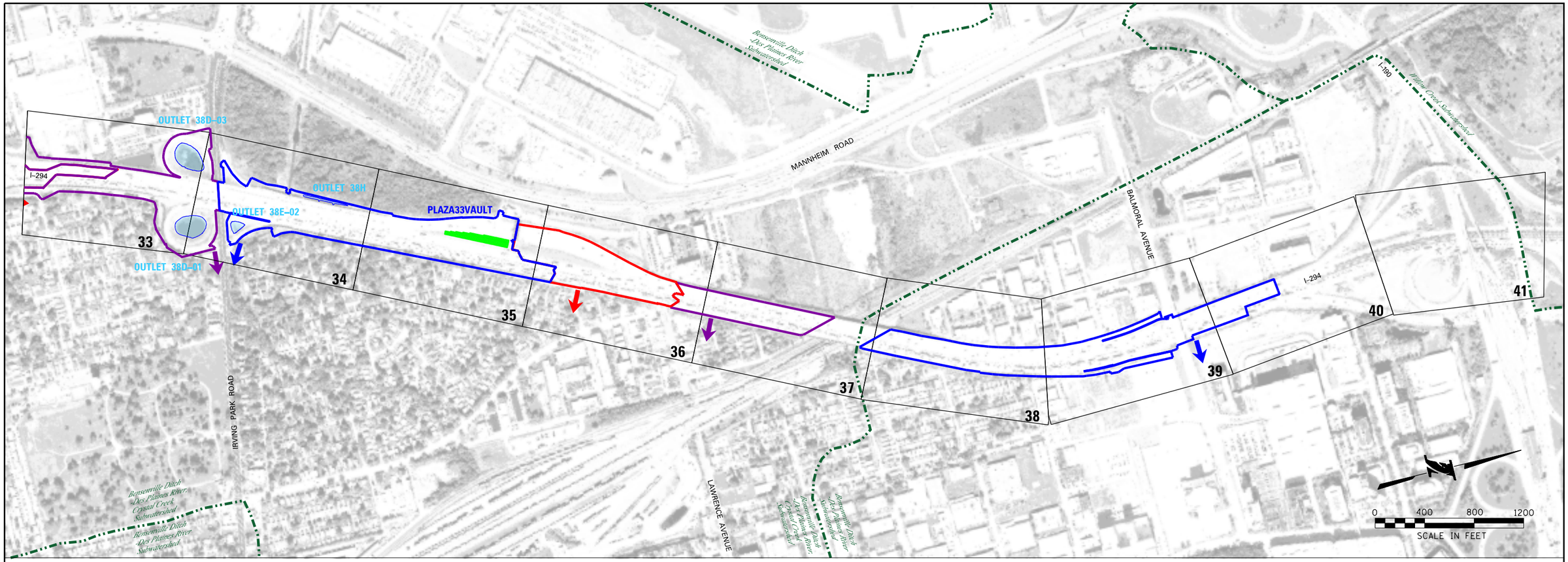
REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-3
PROPOSED DRAINAGE - DETENTION SUMMARY

SHEET NO. PDD-03
DRAWING NO. 60 OF 196



PROPOSED DETENTION

DETENTION ID	DETENTION TYPE	OUTLET AT STA	HWL (FT)	NWL (FT)	REQ. DET. (AC-FT)	PROV. DET. (AC-FT)	REQ. WOV (AC-FT)	PROV. WOV (AC-FT)	DETENTION LOCATION
PLAZA33VAULT	VAULT	2035+00 LT	638.43	634.43	2.22	2.37	0.29	0.59	GRASS MEDIAN BETWEEN PLAZA AND ORT

EXISTING DETENTION TO REMAIN

DETENTION ID	OUTLET AT STA	BOTTOM ELEV. (FT)	TOP WSEL (FT)	MAXIMUM DEPTH (FT)	VOLUME (CU FT)	VOLUME (AC-FT)	DETENTION LOCATION
OUTLET 38D-03	2024+00 LT	636.44	643.60	7.16	119,152	2.74	SW INFIELD IRVING PARK ROAD RAMP
OUTLET 38D-01	2024+50 RT	632.20	634.50	2.30	34,200	0.79	SE INFIELD IRVING PARK ROAD RAMP
OUTLET 38E-02	2027+50 RT	635.04	639.04	4.00	21,780	0.50	NE INFIELD IRVING PARK ROAD RAMP
OUTLET 38H	2032+50 LT	632.77	636.90	4.13	28,813	0.66	NB LANES NORTH OF CRYSTAL CREEK
OUTLET 38J (NE)	2055+80 RT	640.30	646.30	6.00	7,540	0.17	NB LANES NORTH OF PLAZA 33
OUTLET 38J (NW)	2055+80 LT	639.77	646.07	6.30	6,070	0.14	SB LANES SOUTH OF PLAZA 33
OUTLET 38J (SE)	2055+80 RT	640.60	645.80	5.20	2,835	0.07	NB LANES NORTH OF PLAZA 33
OUTLET 38J (SW)	2055+80 LT	639.77	646.12	6.35	5,868	0.13	SB LANES SOUTH OF PLAZA 33
OUTLET 39A (NE)	2066+80 RT	648.96	656.16	7.20	5,005	0.11	NB LANES BETWEEN LAWRENCE & RR
OUTLET 39A (NW)	2066+80 LT	650.55	657.75	7.20	5,012	0.12	SB LANES BETWEEN LAWRENCE & RR
OUTLET 39A (SE)	2066+80 RT	649.56	653.73	4.17	1,630	0.04	NB LANES BETWEEN LAWRENCE & RR
OUTLET 39A (SW)	2066+80 LT	650.95	655.66	4.71	1,644	0.04	SB LANES BETWEEN LAWRENCE & RR
OUTLET 39B (SE)	2105+80 RT	630.60	634.38	3.78	8,129	0.19	NB LANES BALMORAL ROAD
OUTLET 39B (NE)	2106+00 RT	632.10	636.03	3.93	504	0.01	NB LANES BALMORAL ROAD
OUTLET 39B (NW)	2106+10 LT	632.95	637.05	4.10	3,688	0.08	SB LANES BALMORAL ROAD

NOTE: ALL EXISTING DETENTION SYSTEMS EXCEPT OUTLET 38D-03, OUTLET 38D-01, OUTLET 38E-02, AND OUTLET 38H ARE INLINE PIPE DETENTION.

DRAWN BY	KRH	SCALE	1" = 400'
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REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-3
PROPOSED DRAINAGE - DETENTION SUMMARY

SHEET NO. PDD-04
DRAWING NO. 61 OF 196

LAYOUT	KRH	04/14/17
DRAWN	KRH	04/14/17
REVIEWED	JJW	07/21/17

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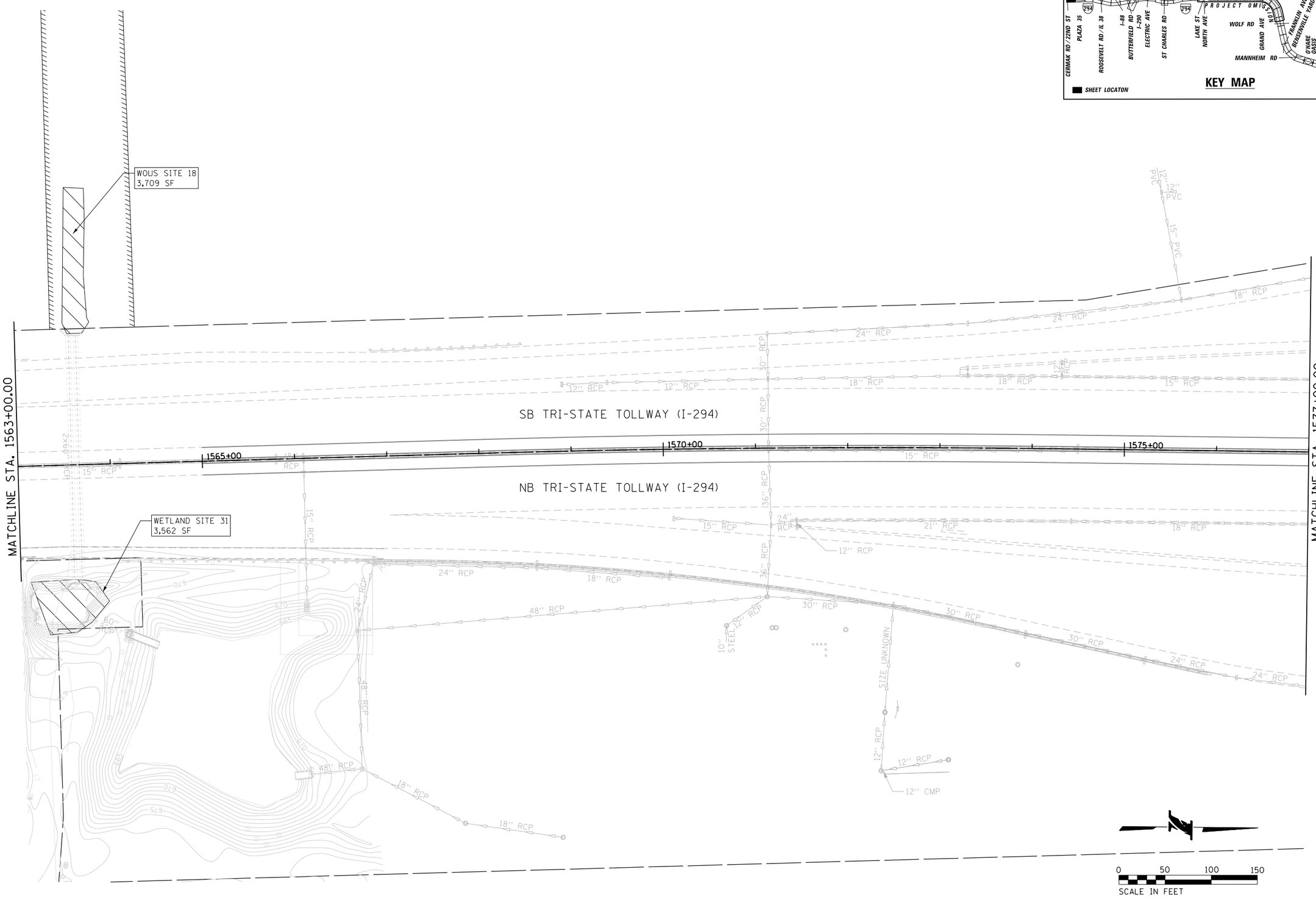

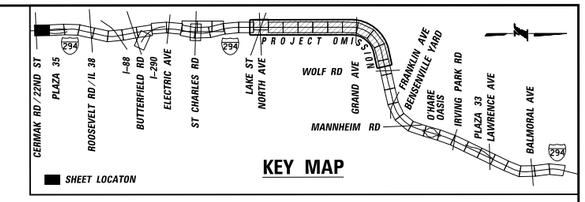

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CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-01
DRAWING NO. 62 OF 196

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MATCHLINE (SEE SHEET EDP-42)

CONTRACT RR-14-4223
BEGIN PROJECT
PLAZA STA. 1582+00

LOWER SALT CREEK SUBWATERSHED
ADDISON CREEK SUBWATERSHED

MATCHLINE STA. 1577+00.00

SB TRI-STATE TOLLWAY (I-294)

NB TRI-STATE TOLLWAY (I-294)

1580+00

1585+00

1590+00

CONTRACT RR-14-4223
BEGIN PROJECT
MAINLINE STA. 1584+00

MATCHLINE STA. 1591+00.00

CONTRACT RR-14-4223
BEGIN PROJECT
PLAZA STA. 1582+00

OUTLET 30B

OUTLET 30A

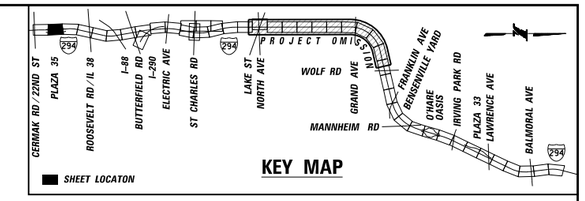
POND-30A

WETLAND SITE 32
5,743 SF

HAWTHORNE ST

30A-01
30A-02
30A-03
30A-04
30A-05
30A-06
30A-07
30A-08
30A-09
30A-10
30A-11
30A-12
30A-17

12" RCP
15" RCP
18" RCP
24" RCP
36" RCP
48" RCP
60" RCP



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SCALE IN FEET

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CHECKED BY	SN	DATE	12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-02
DRAWING NO. 63 OF 196

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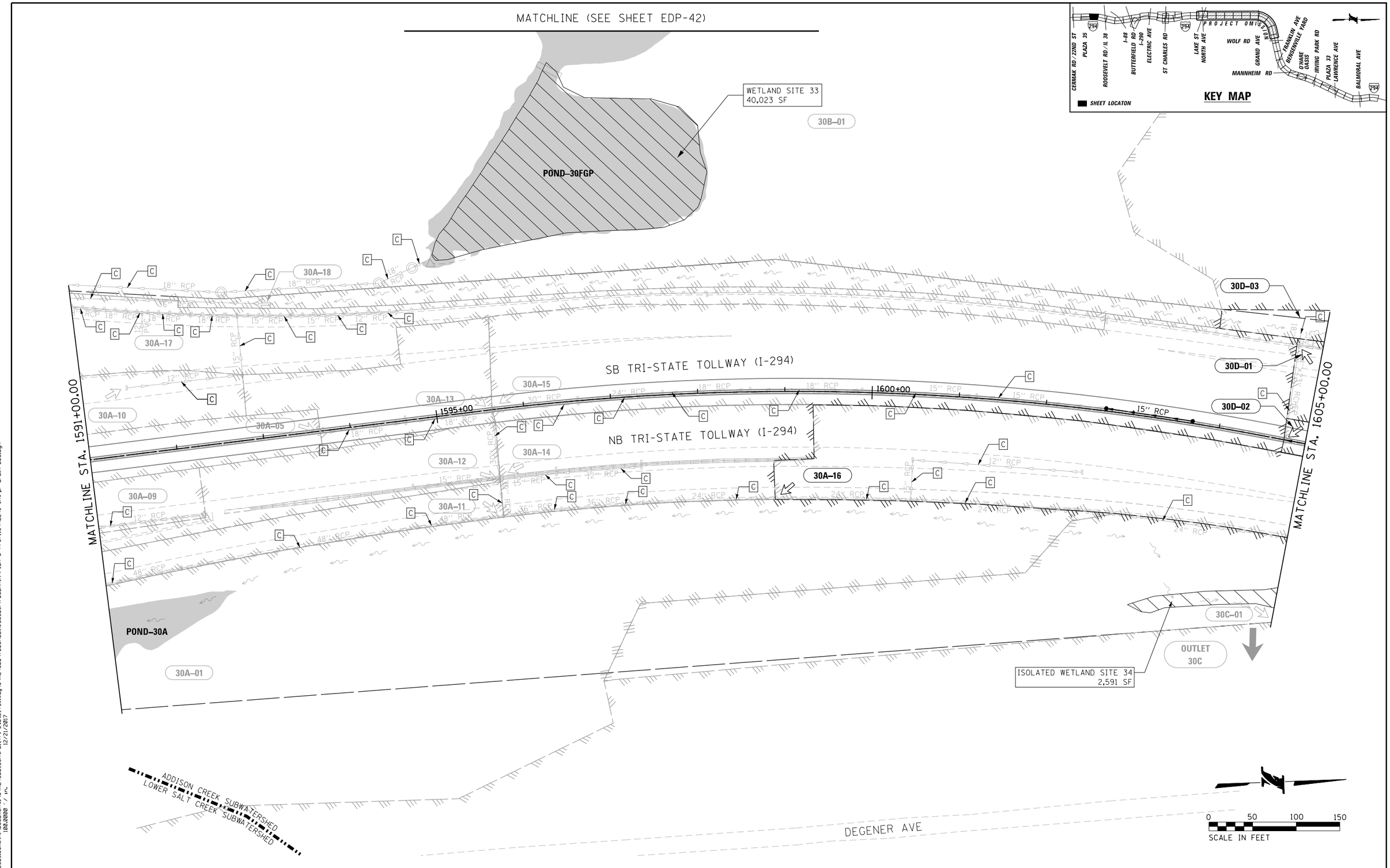

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224 EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN	SHEET NO. PDP-03 DRAWING NO. 64 OF 196
CHECKED BY SN	DATE 12/22/2017						

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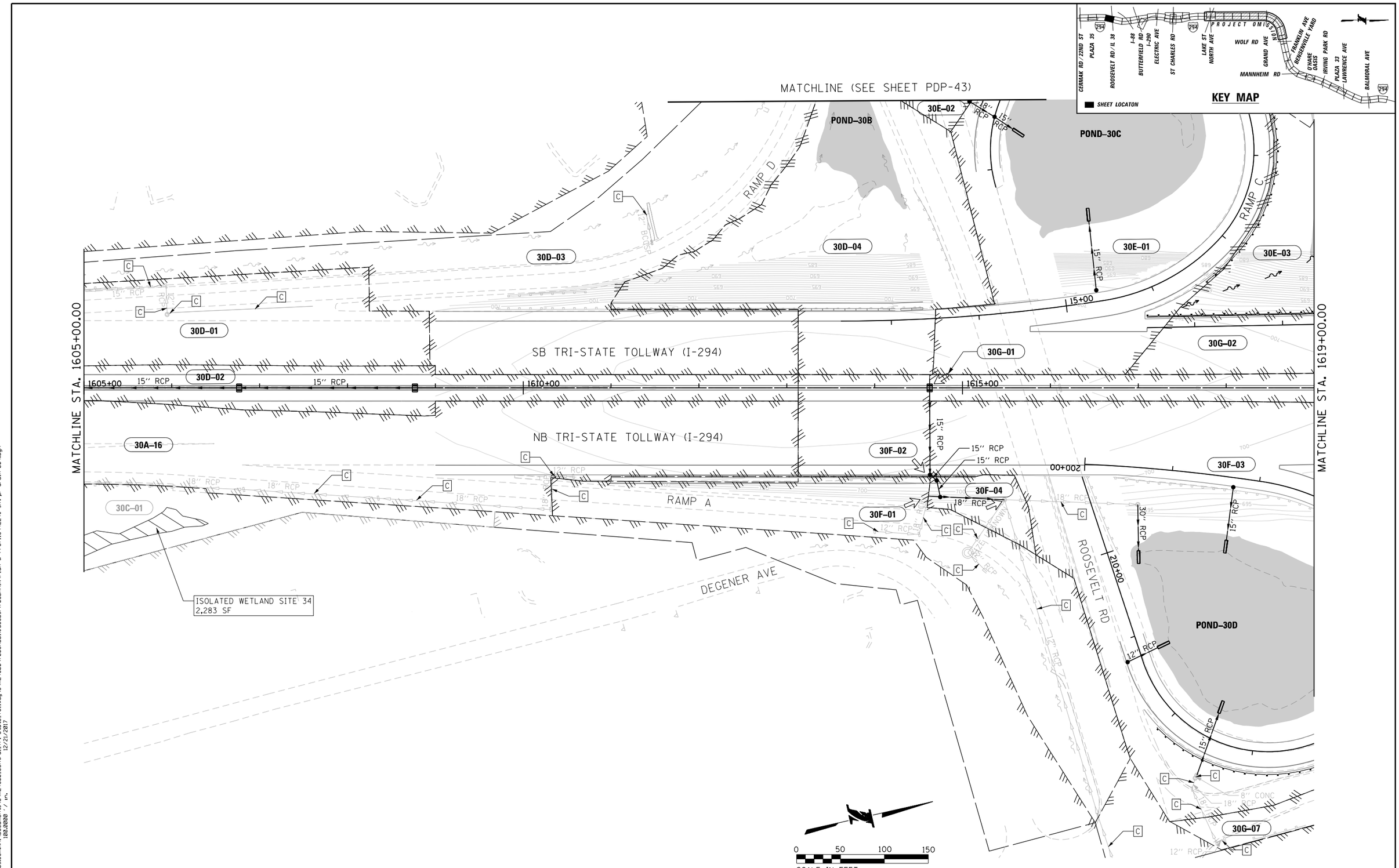

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CHECKED BY SN	DATE 12/22/2017				EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

REVISIONS

NO.	DATE	DESCRIPTION

SHEET NO. PDP-04
DRAWING NO. 65 OF 196

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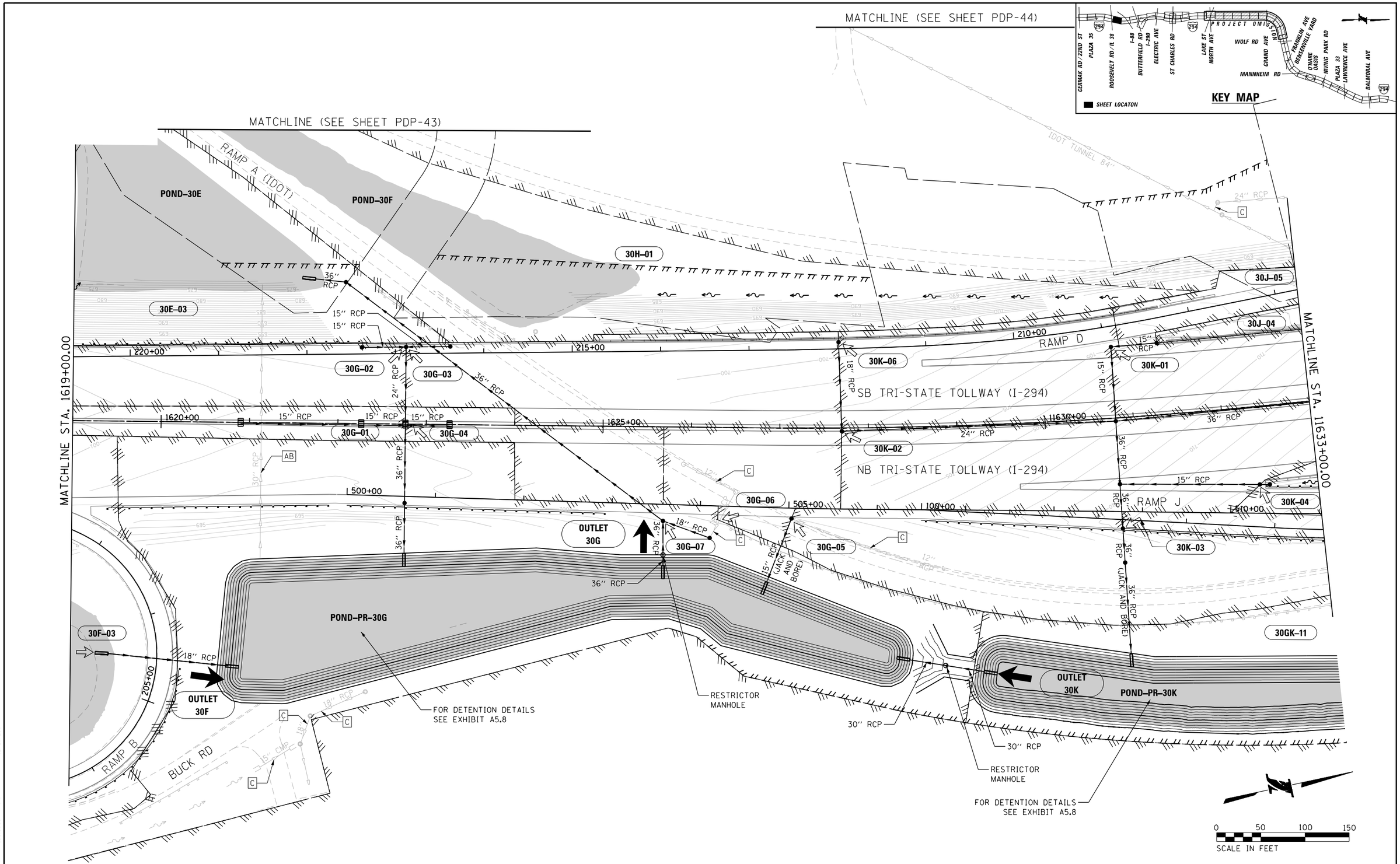

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CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-05
DRAWING NO. 66 OF 196

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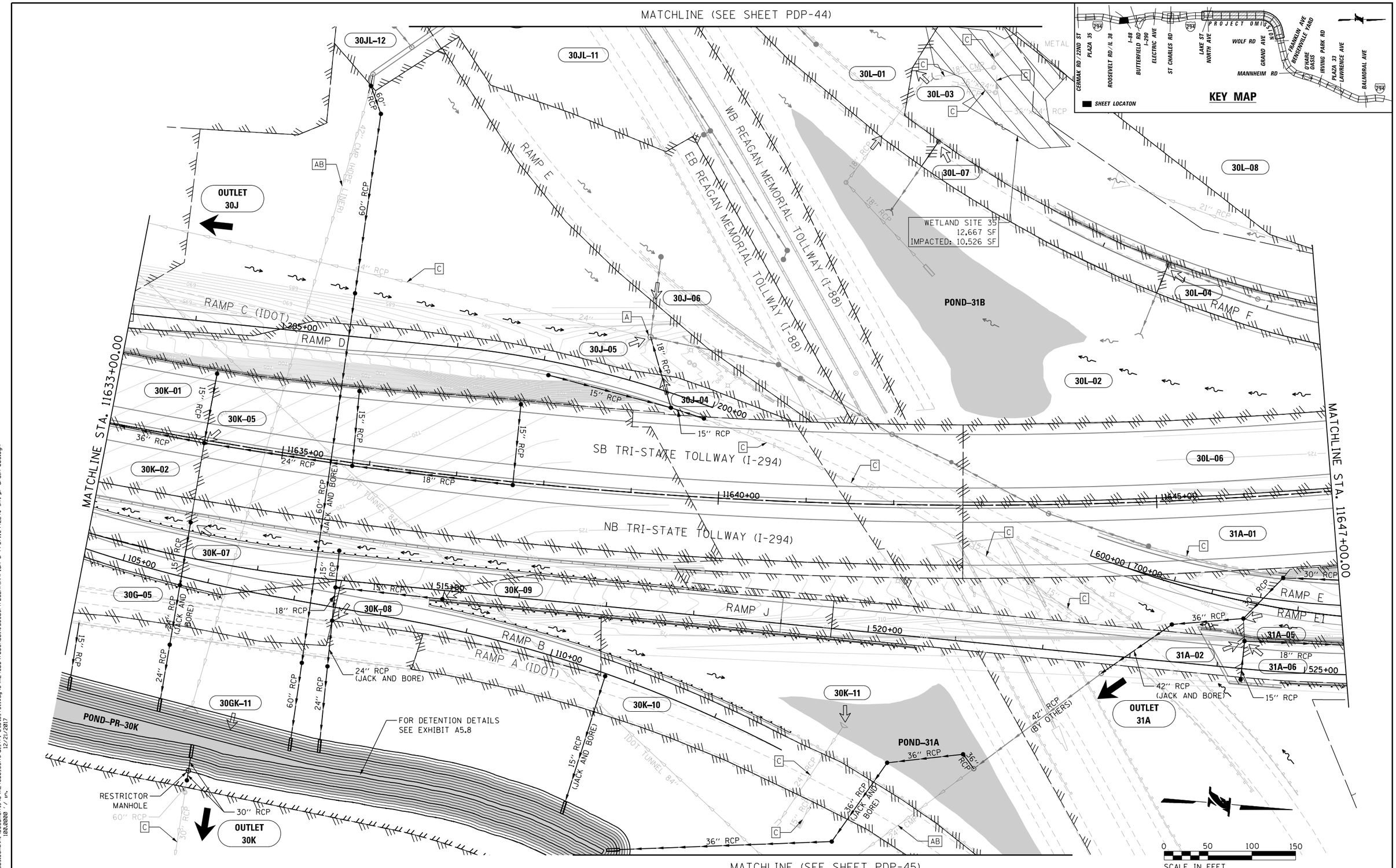

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-06
DRAWING NO. 67 OF 196

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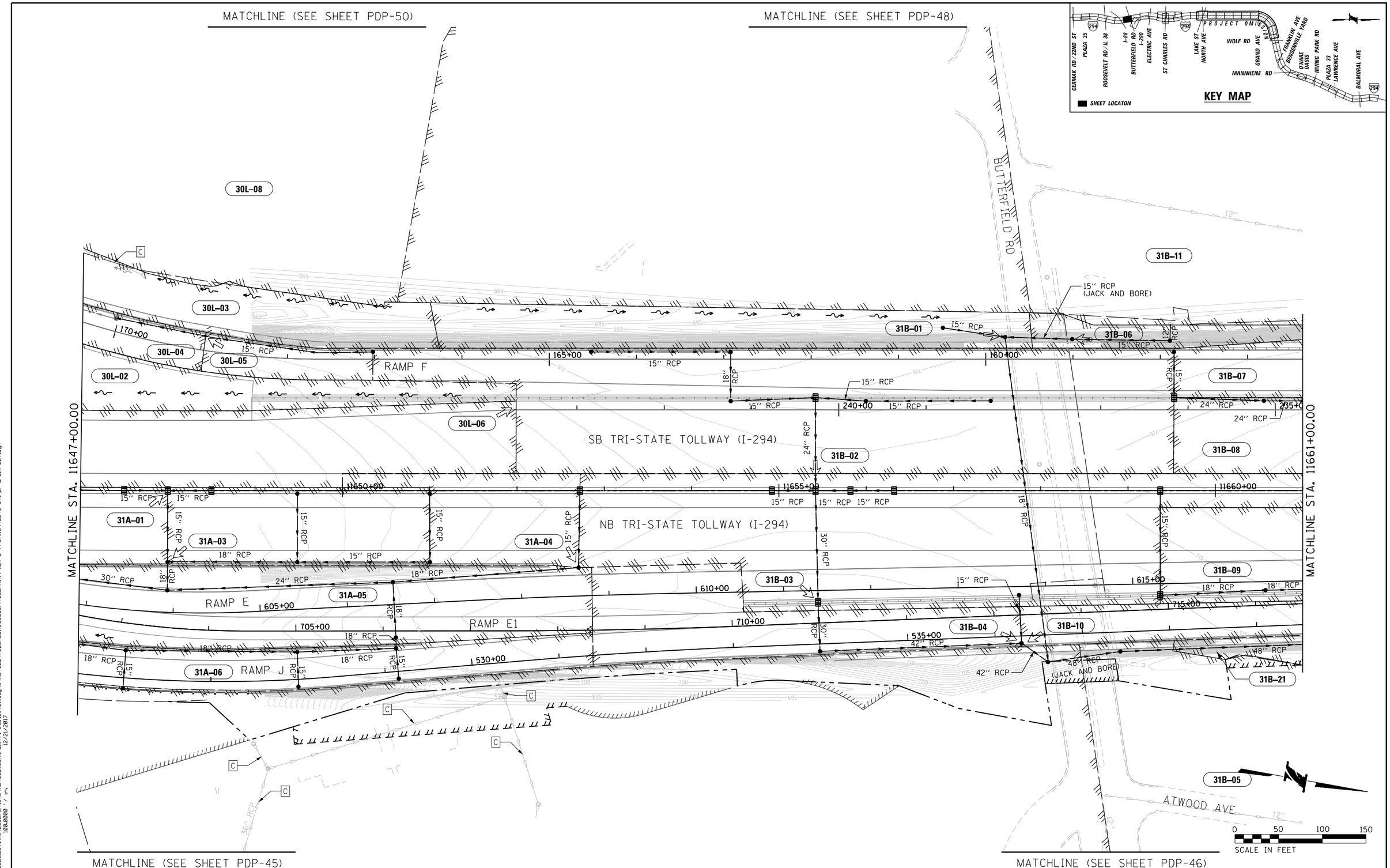

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CHECKED BY SN	DATE 12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-07
DRAWING NO. 68 OF 196

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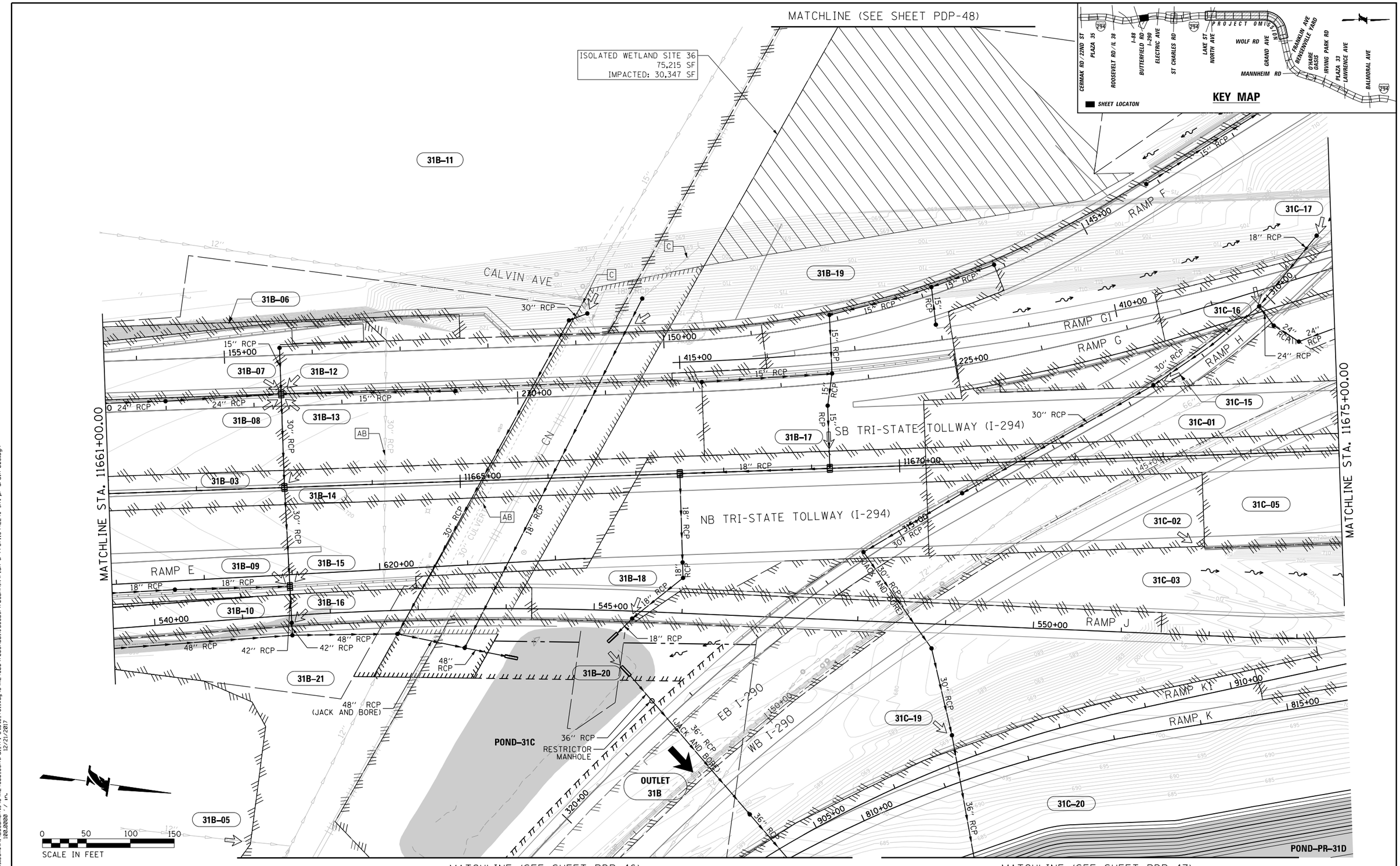

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CHECKED BY SN	DATE 12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-08
DRAWING NO. 69 OF 196

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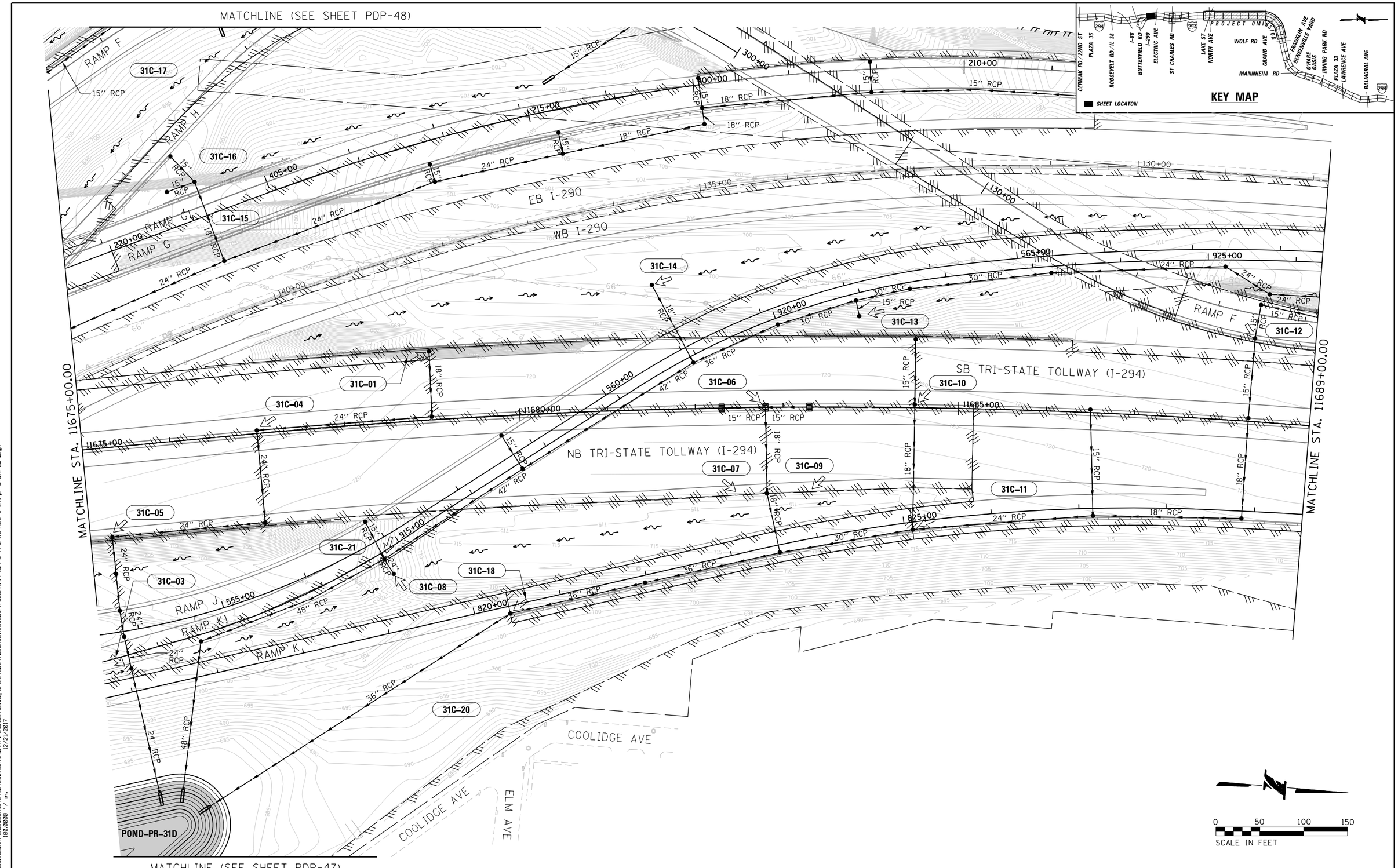

DRAWN BY	KLG	SCALE	1" = 50'
CHECKED BY	SN	DATE	12/22/2017

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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-09
DRAWING NO. 70 OF 196

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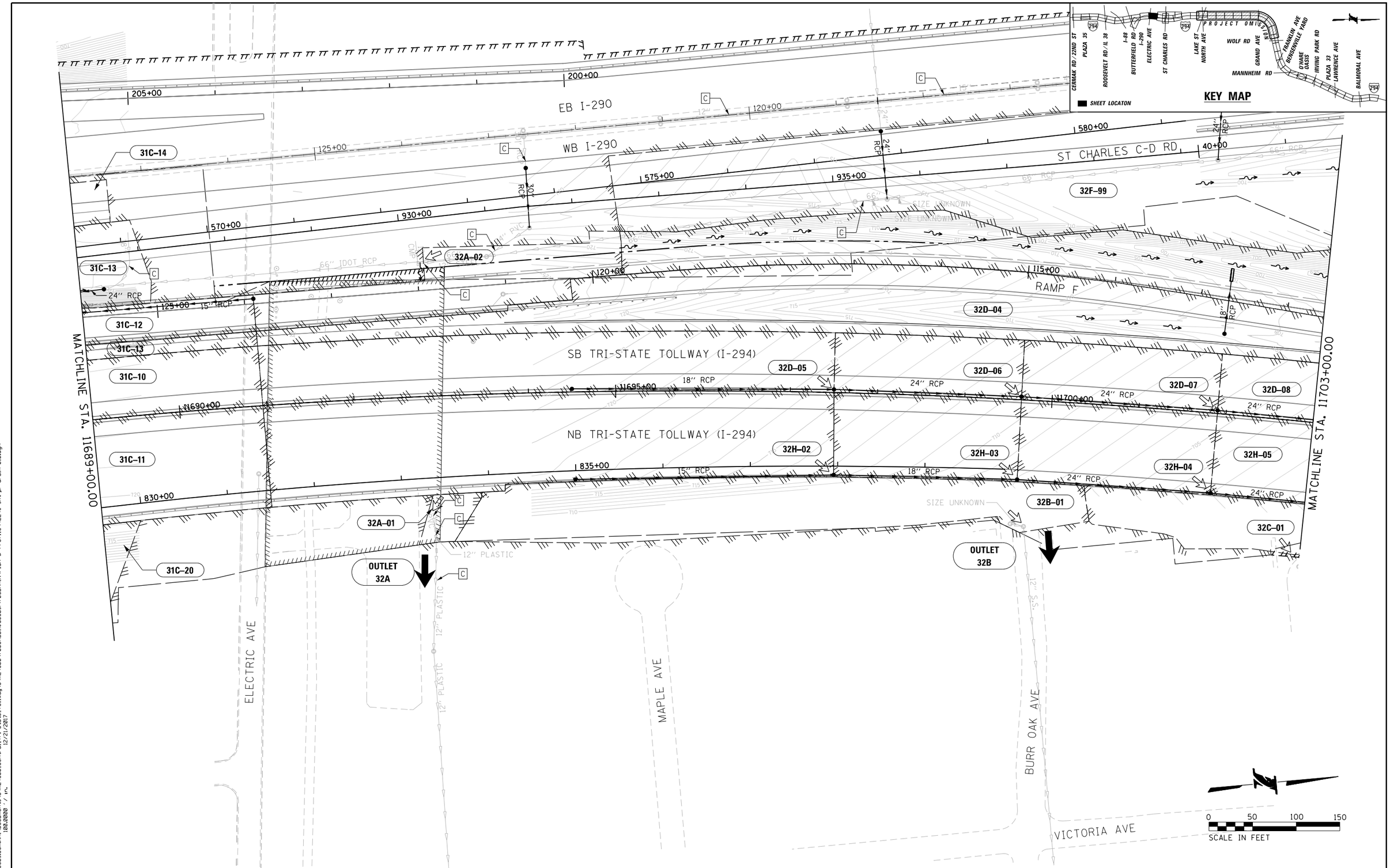

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-10
DRAWING NO. 71 OF 196

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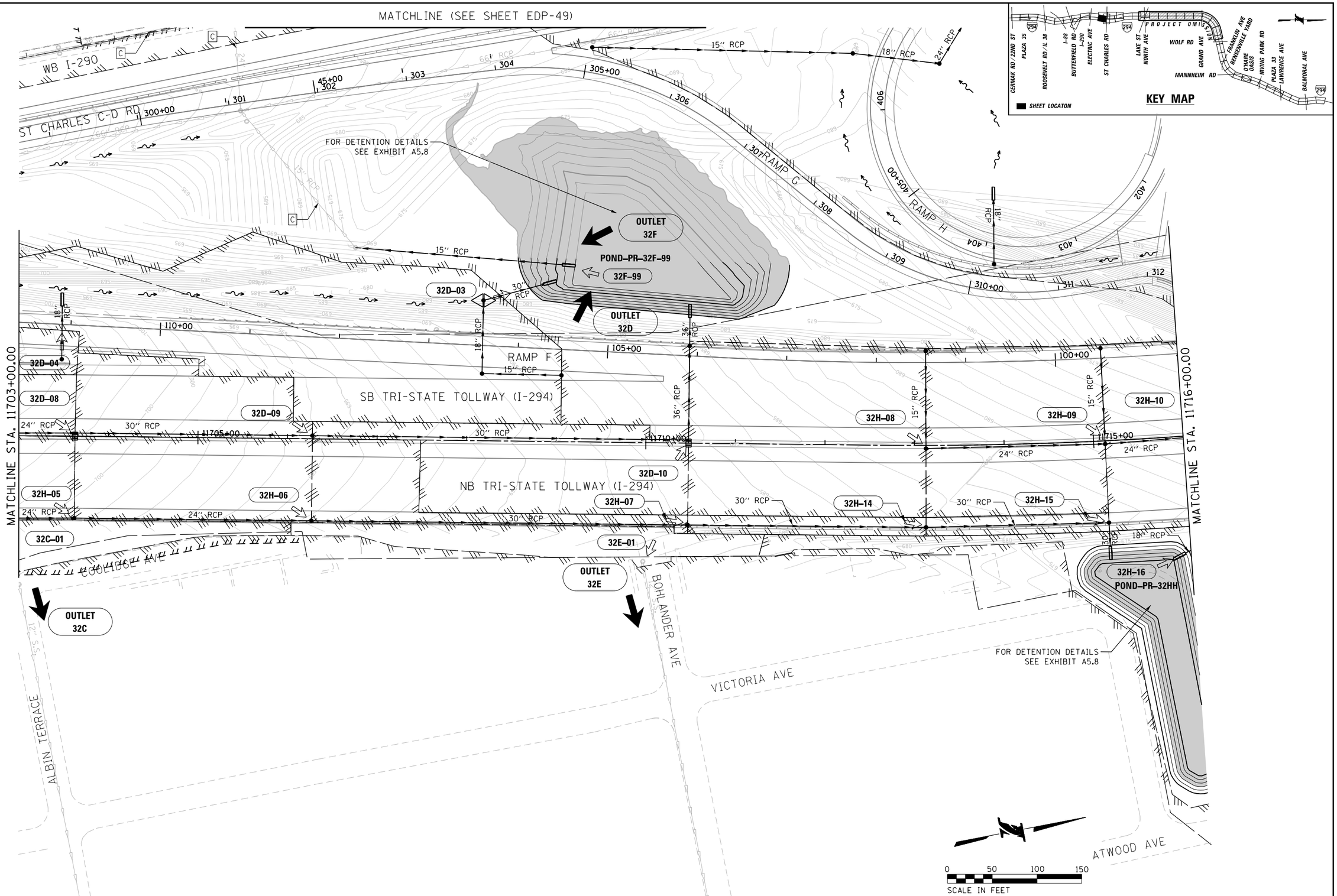

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017				EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

REVISIONS

NO.	DATE	DESCRIPTION

SHEET NO. PDP-11

DRAWING NO. 72 OF 196

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12/21/2017
gomezk1

MATCHLINE (SEE SHEET PDP-49)

KEY MAP

SHEET LOCATON

CERMAK RD / 22ND ST
PLAZA 35
ROOSEVELT RD / IL 38
I-88
BUTTERFIELD RD
I-290
ELECTRIC AVE
ST CHARLES RD
LAKE ST
NORTH AVE
WOLF RD
GRAND AVE
MANNHEIM RD
PROJECT OMISSION
FRANKLIN AVE
BENSENVILLE YARD
O'HARE OASIS
IRVING PARK RD
PLAZA 32
LAWRENCE AVE
BALMORAL AVE

POND-32KL

RAMP E

RAMP F

SB TRI-STATE TOLLWAY (I-294)

NB TRI-STATE TOLLWAY (I-294)

MATCHLINE STA. 11716+00.00

MATCHLINE STA. 11730+00.00

11720+00

11725+00

32F-99

32H-10

32H-11

32H-12

32H-13

32H-16

32H-17

32H-01

32M-12

32M-13

32M-14

32M-15

32J-01

OUTLET 32H

OUTLET 32J

POND-PR-32H

RESTRICTOR MANHOLE

FOR DETENTION DETAILS SEE EXHIBIT A5.8

ST CHARLES RD

HURON ST

SUPERIOR ST

CHICAGO AVE

VICTORIA AVE

RICHARD AVE

SCALE IN FEET

0 50 100 150

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-12
DRAWING NO. 73 OF 196

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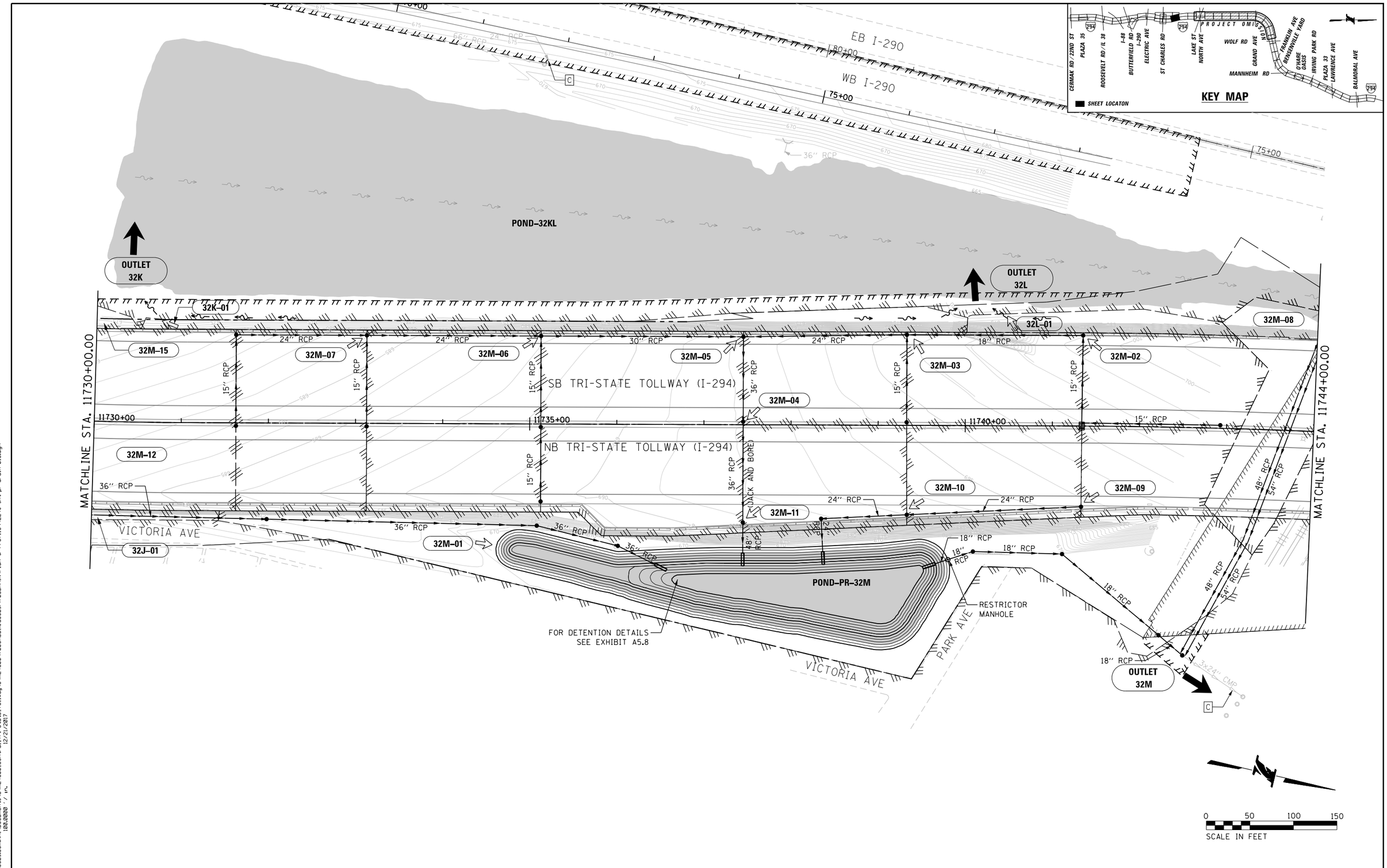

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN
					SHEET NO. PDP-13 DRAWING NO. 74 OF 196

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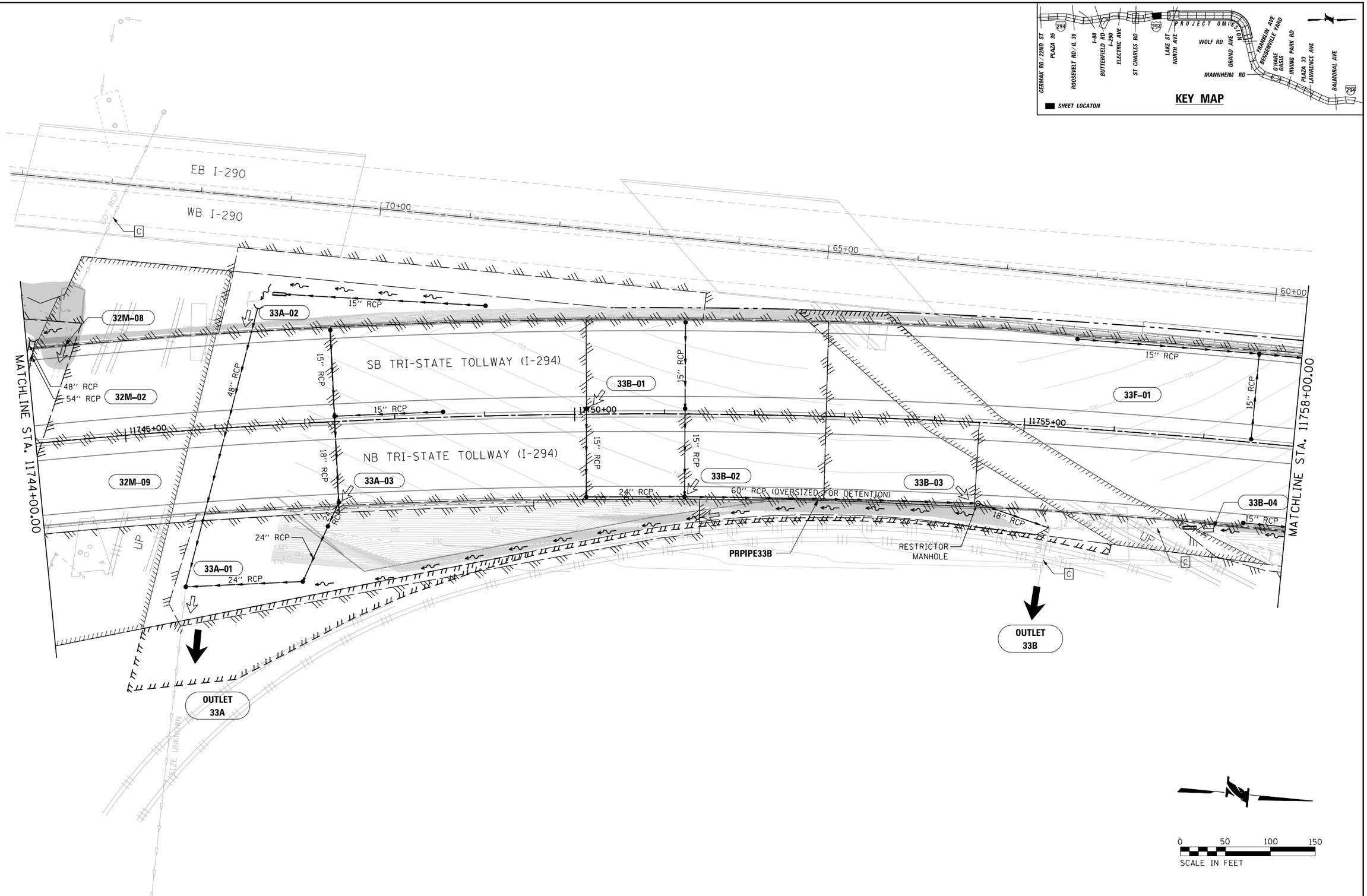

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-14
DRAWING NO. 75 OF 196

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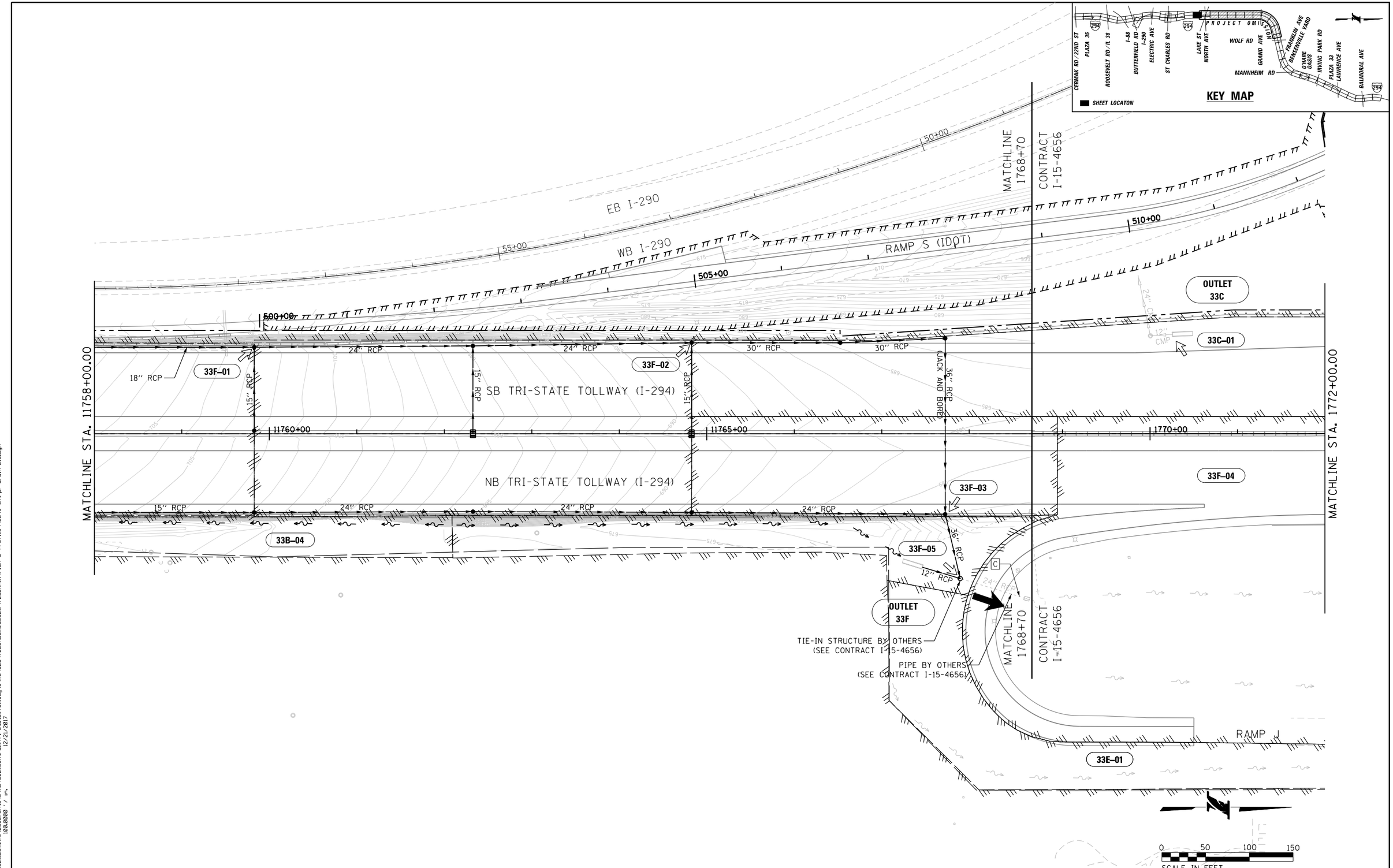

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-15
DRAWING NO. 76 OF 196

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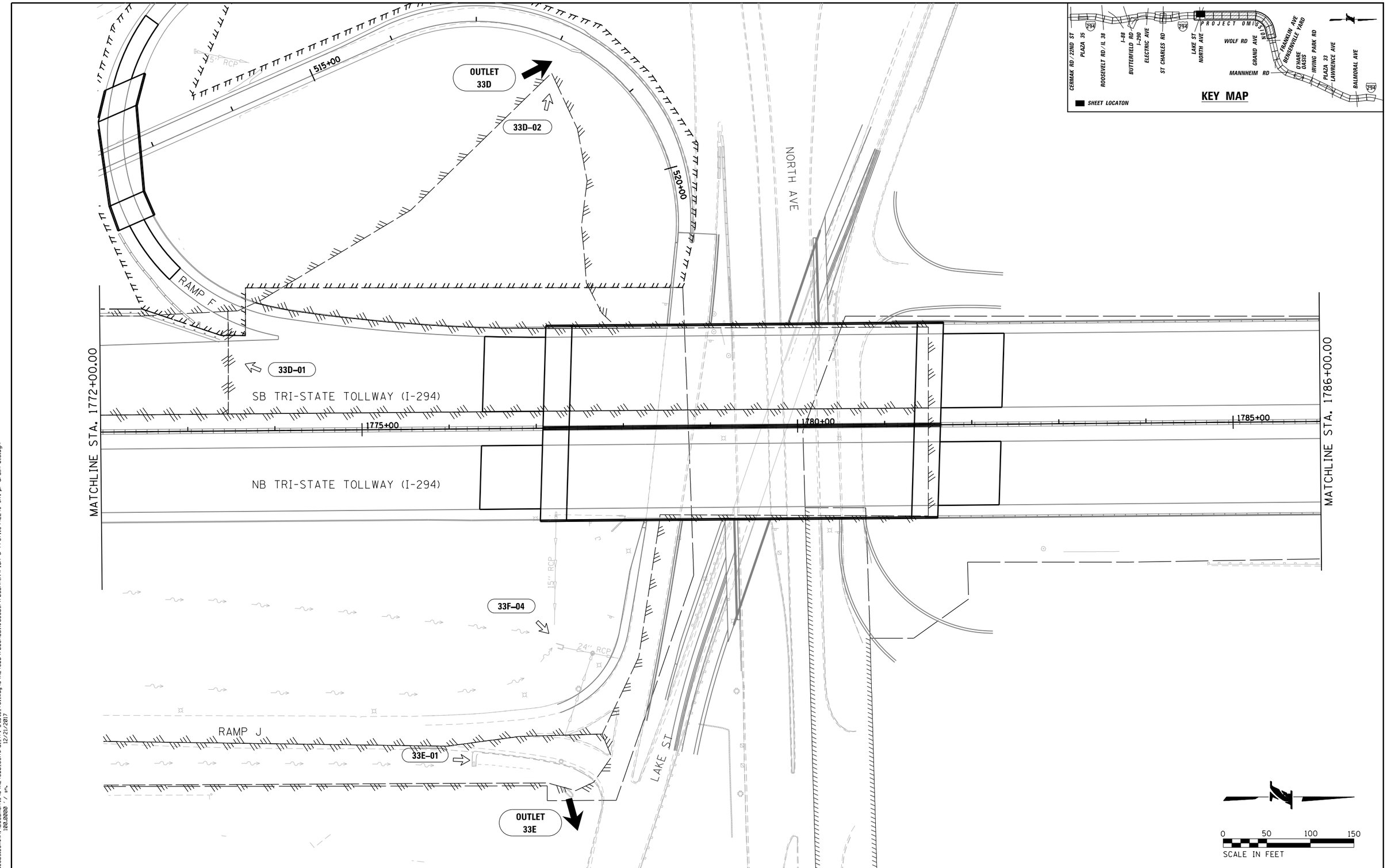

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12/21/2017
gomezki

DRAWN BY	KLG	SCALE	1" = 50'
CHECKED BY	SN	DATE	12/22/2017

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Fax: 312.251.3015

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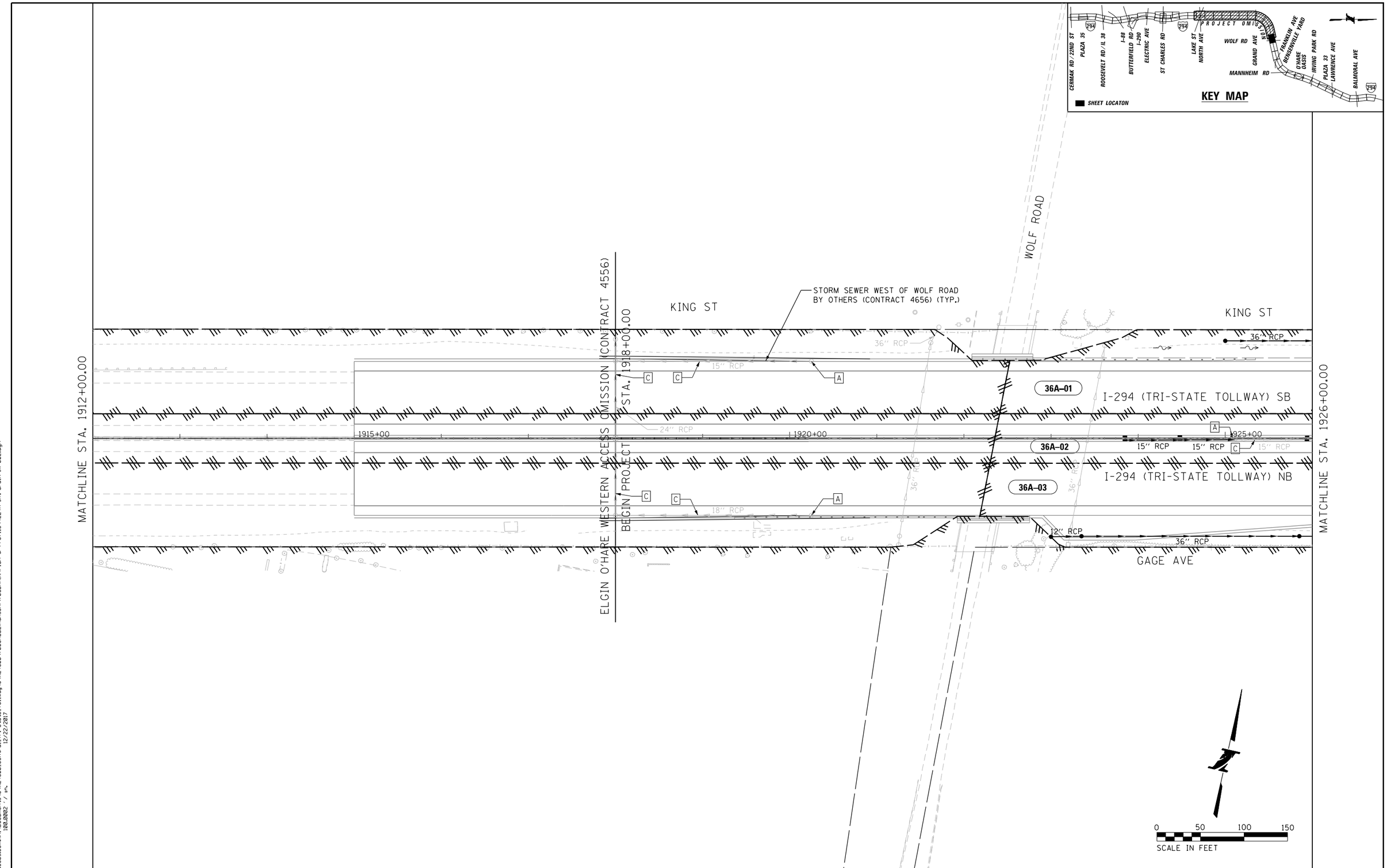
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO.
PDP-16
DRAWING NO.
77 OF 196



DRAWN BY	KRH	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO.
PDP-26
DRAWING NO.
78 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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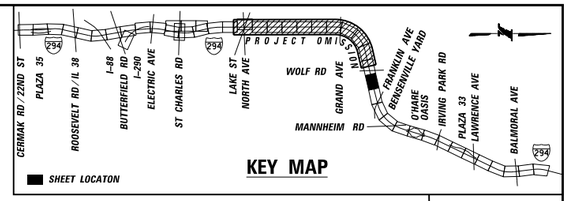

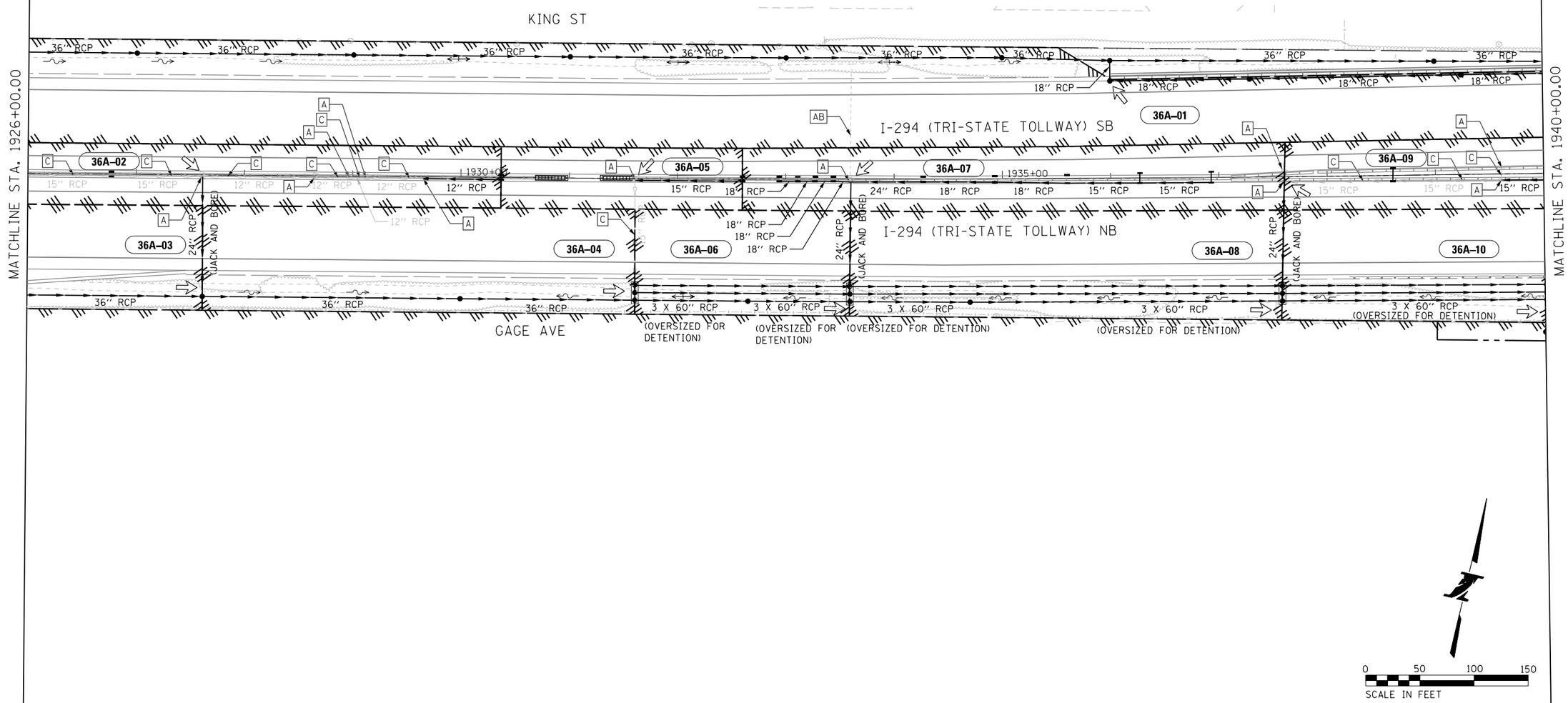

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CHECKED BY	JJW	DATE	12/22/2017

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RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-27
DRAWING NO. 79 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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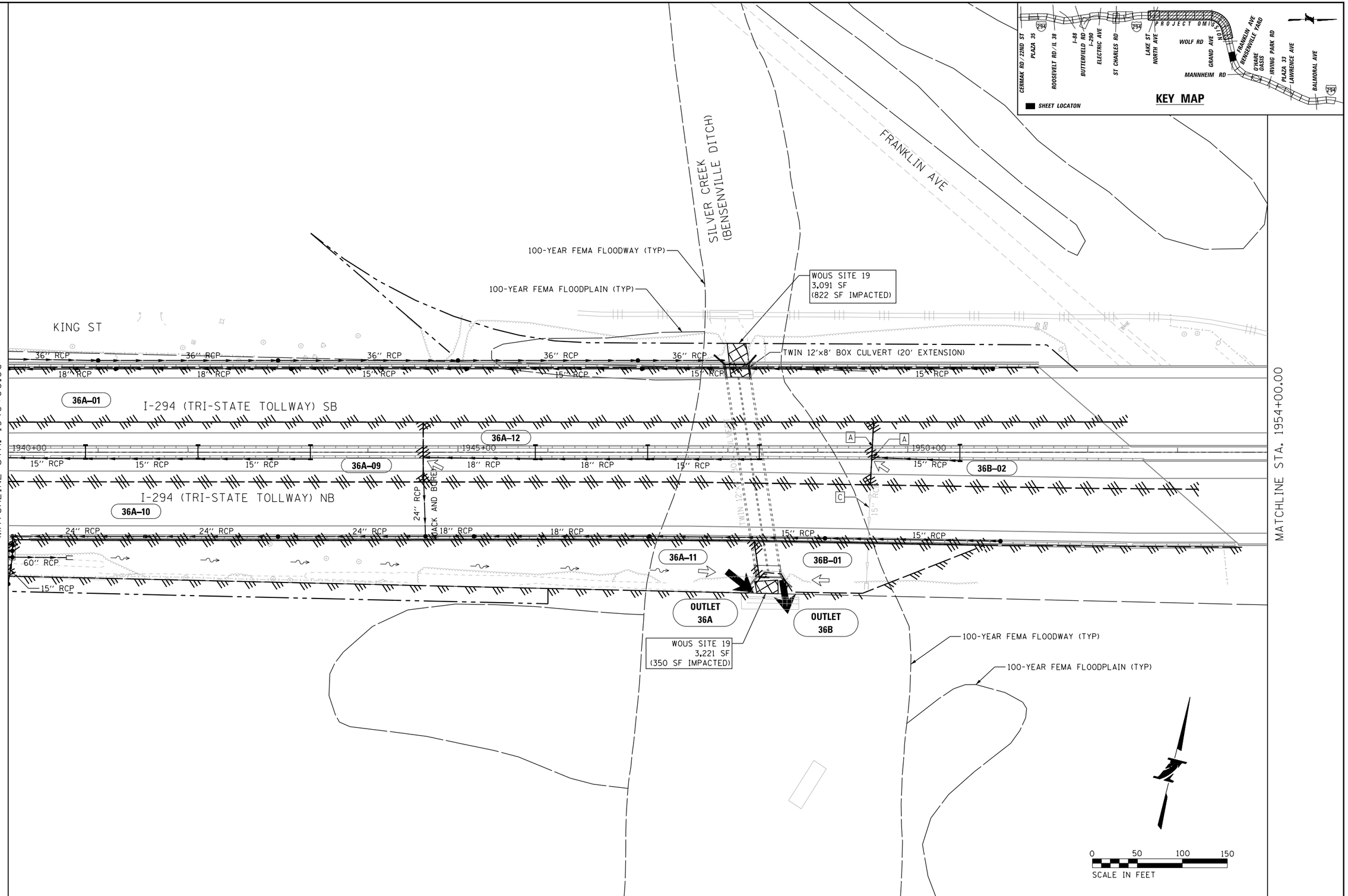

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CHECKED BY	JJW	DATE	12/22/2017

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NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-28
DRAWING NO. 80 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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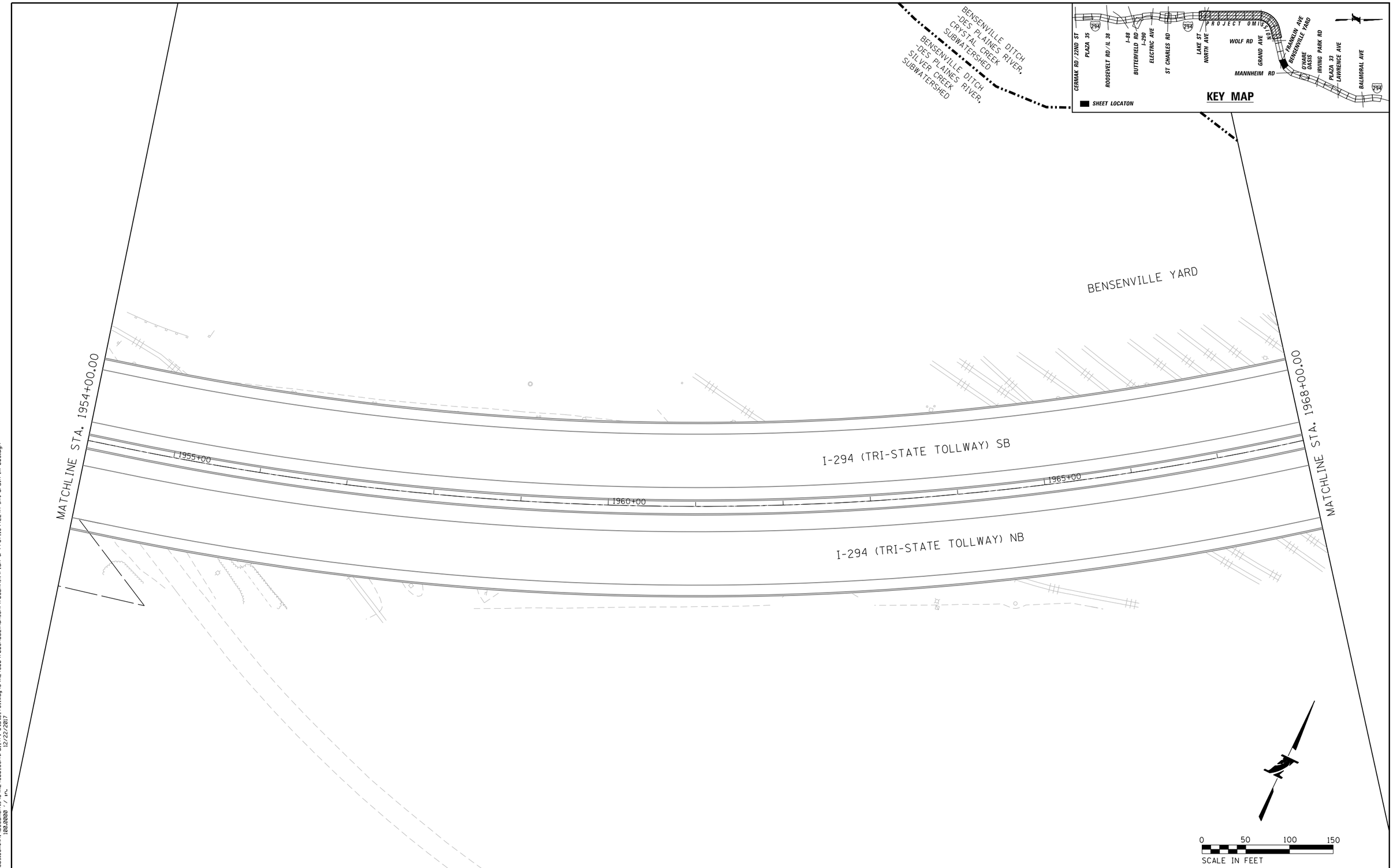

DRAWN BY	KRH	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-29
DRAWING NO. 81 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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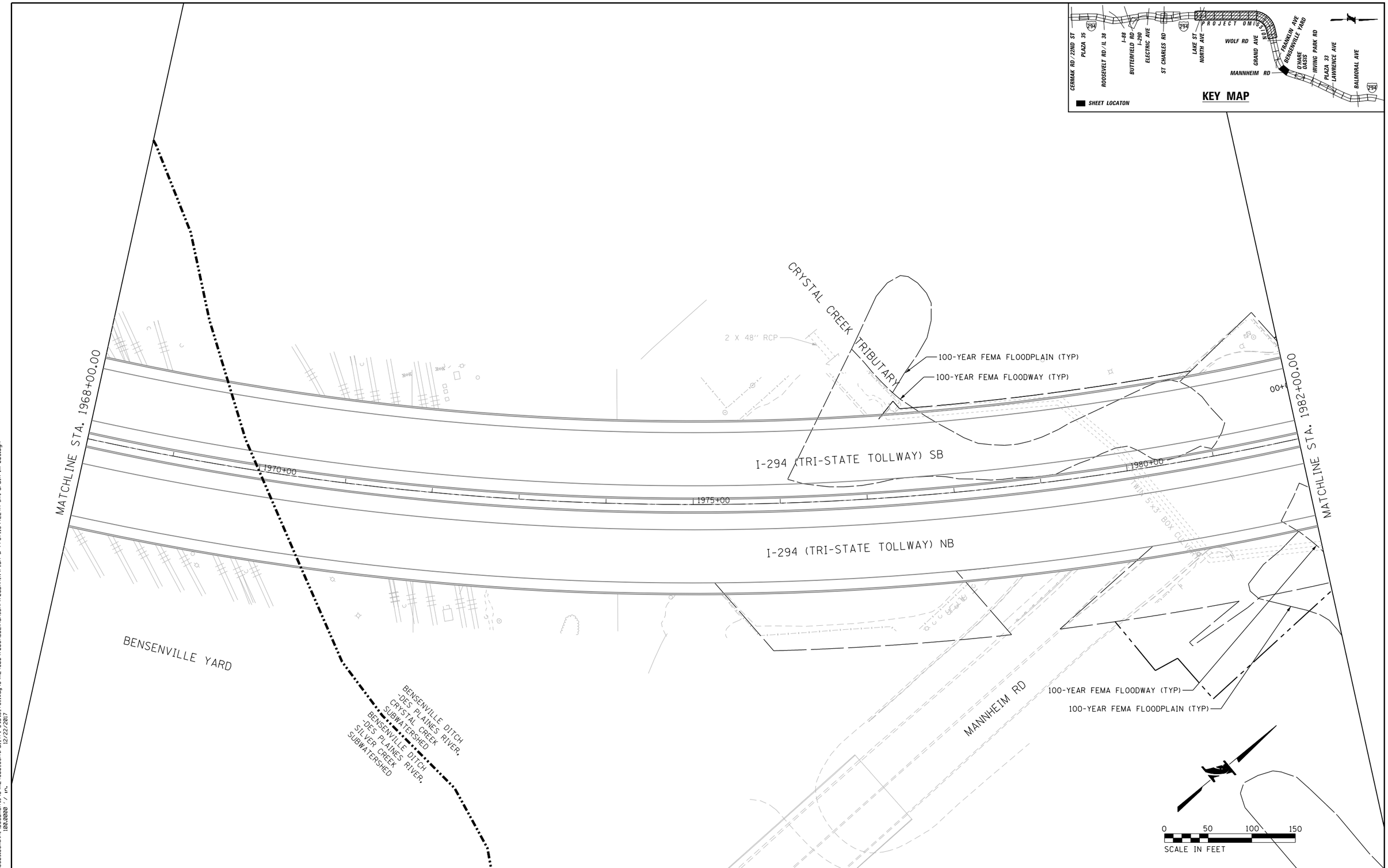

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-30
DRAWING NO. 82 OF 196

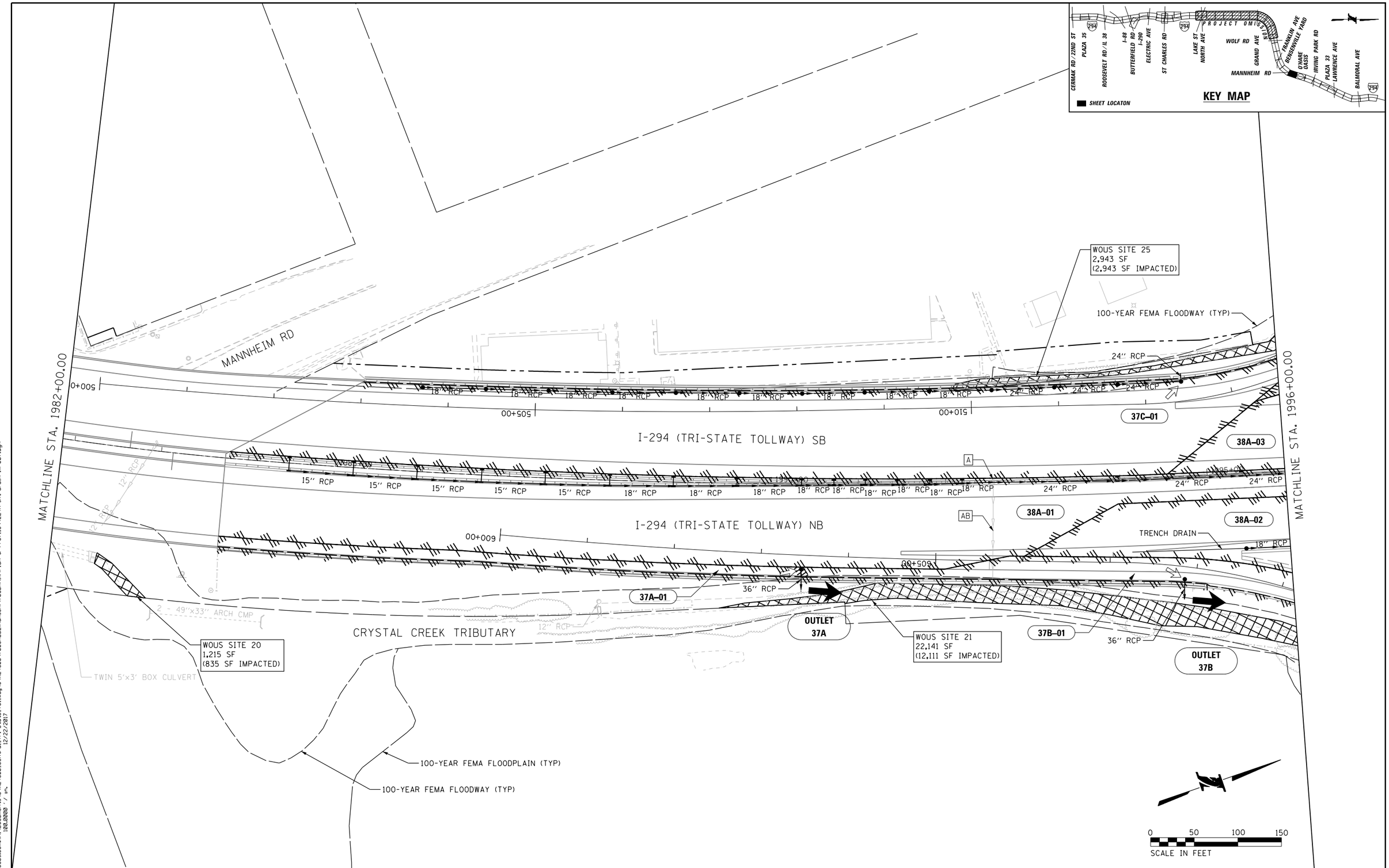

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-31
DRAWING NO. 83 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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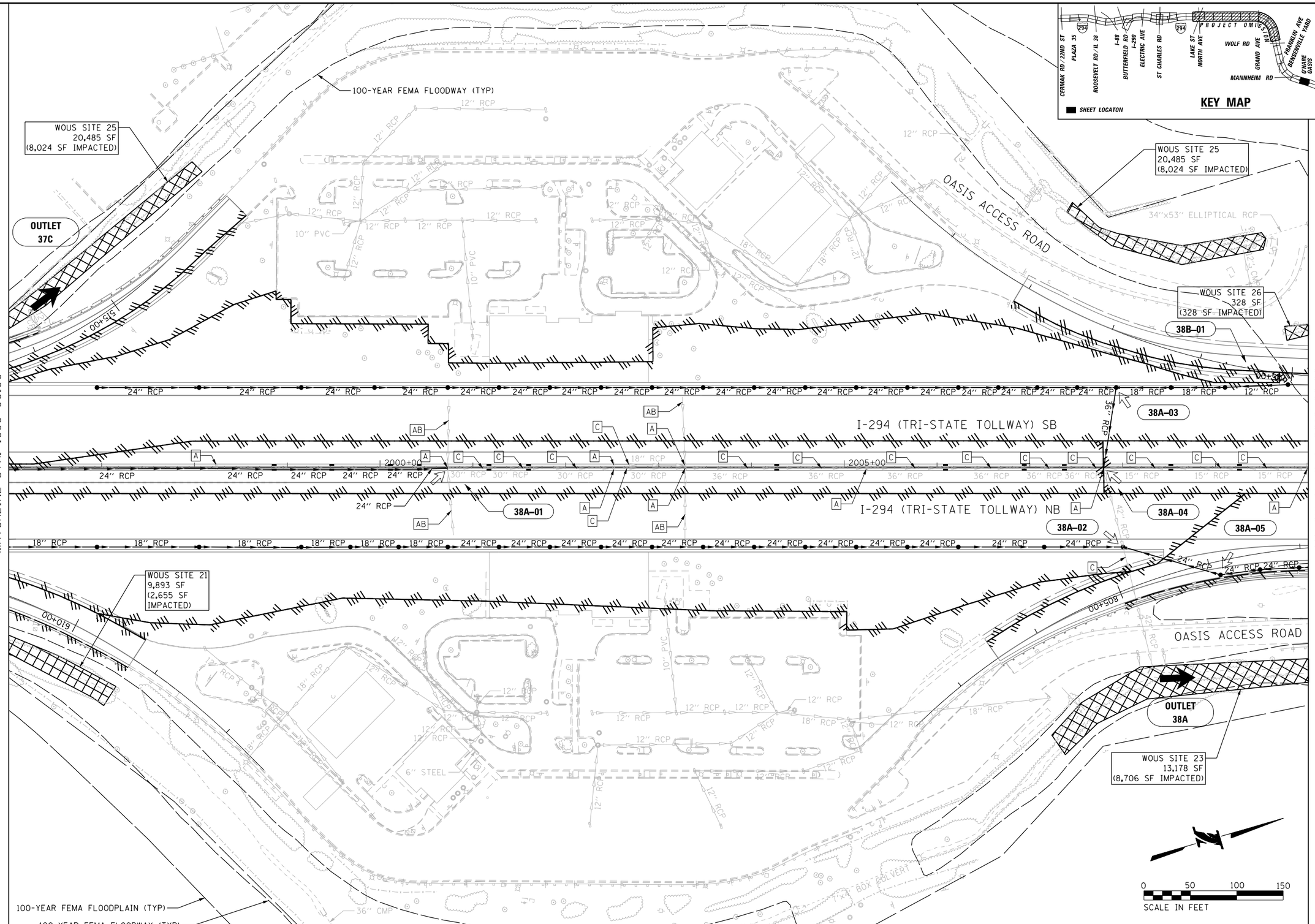

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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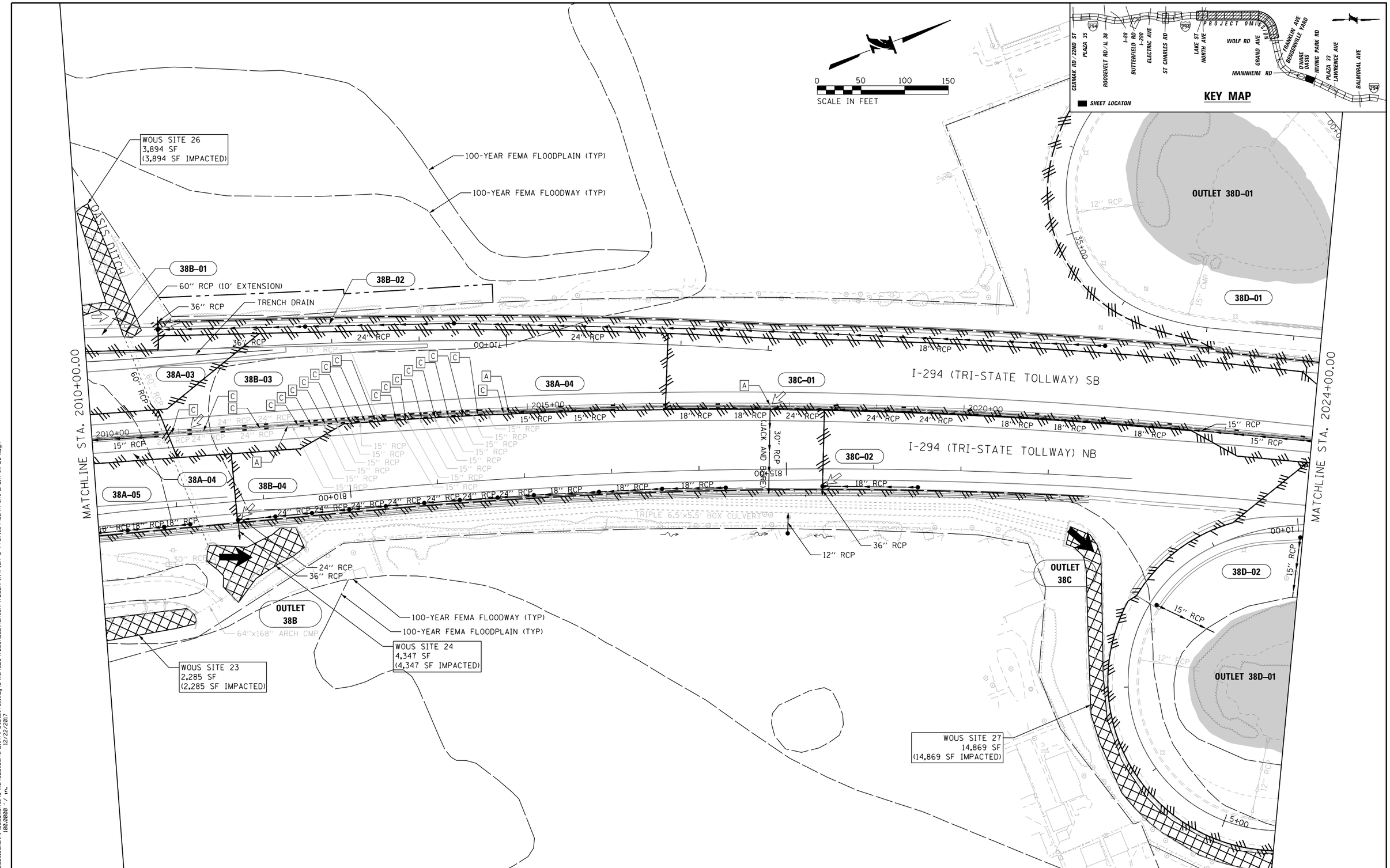
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-32
DRAWING NO. 84 OF 196



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CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-33
DRAWING NO. 85 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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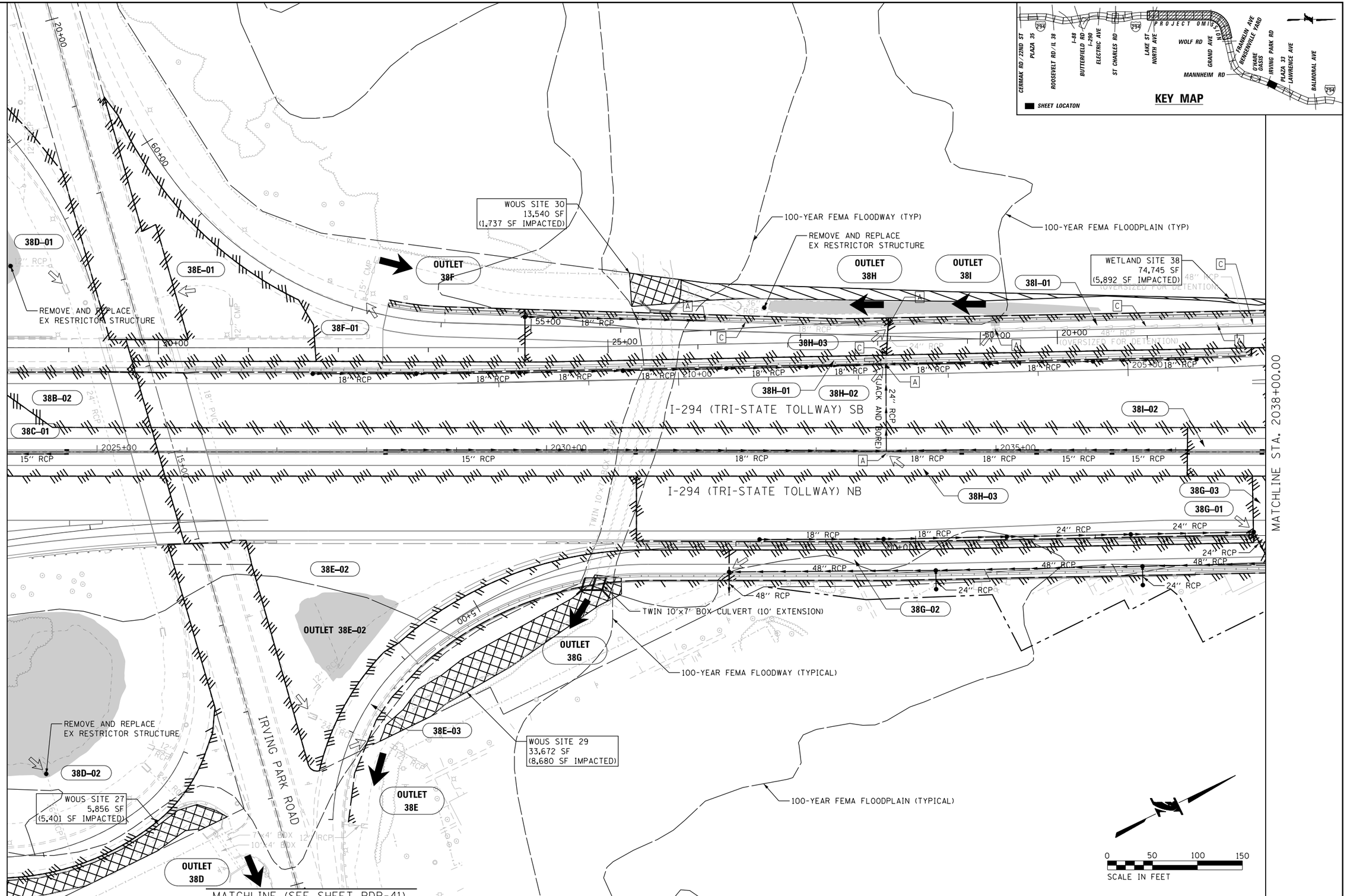

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CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-34
DRAWING NO. 86 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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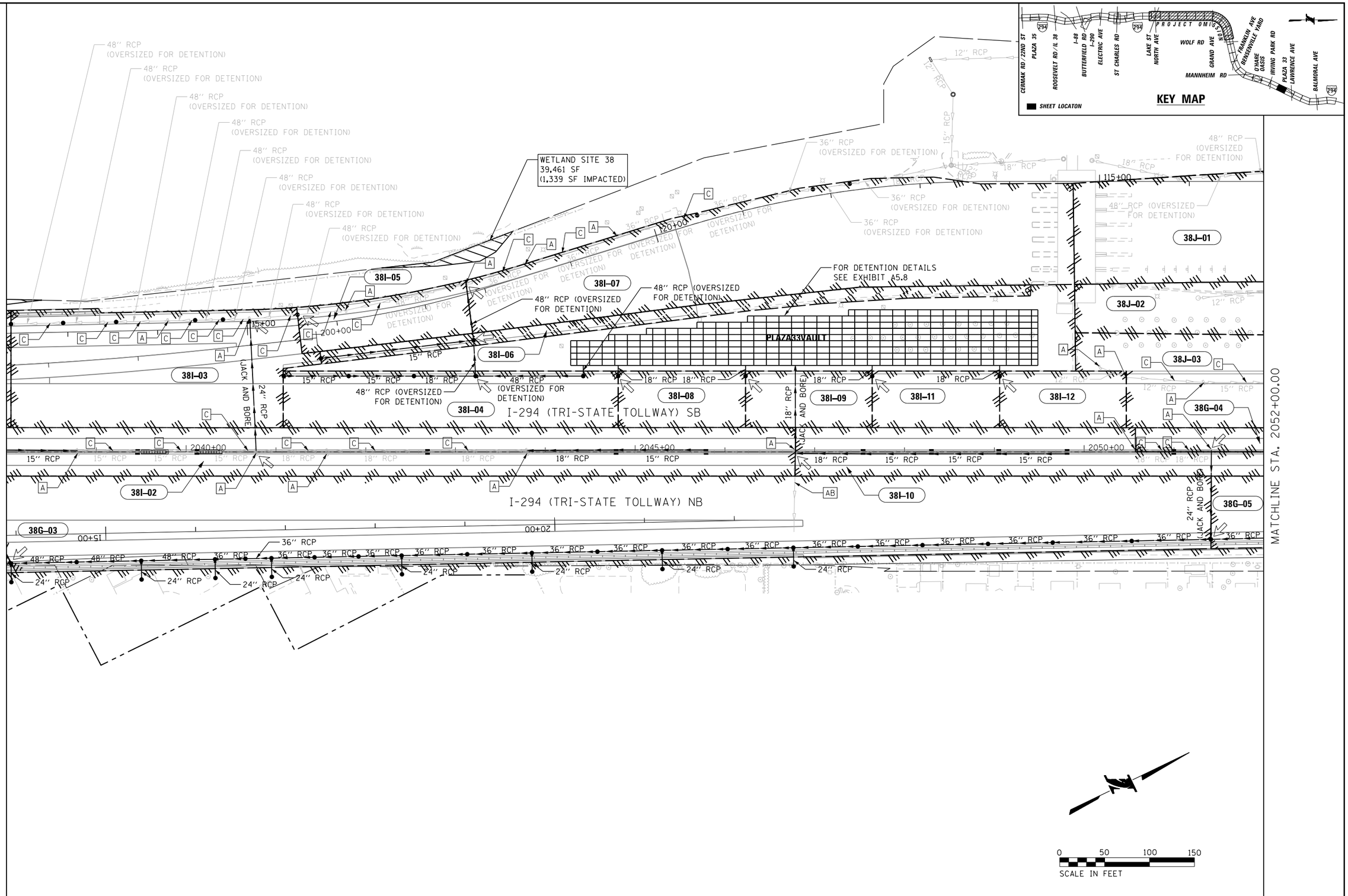

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CHECKED BY	JJW	DATE	12/22/2017

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NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-35
DRAWING NO. 87 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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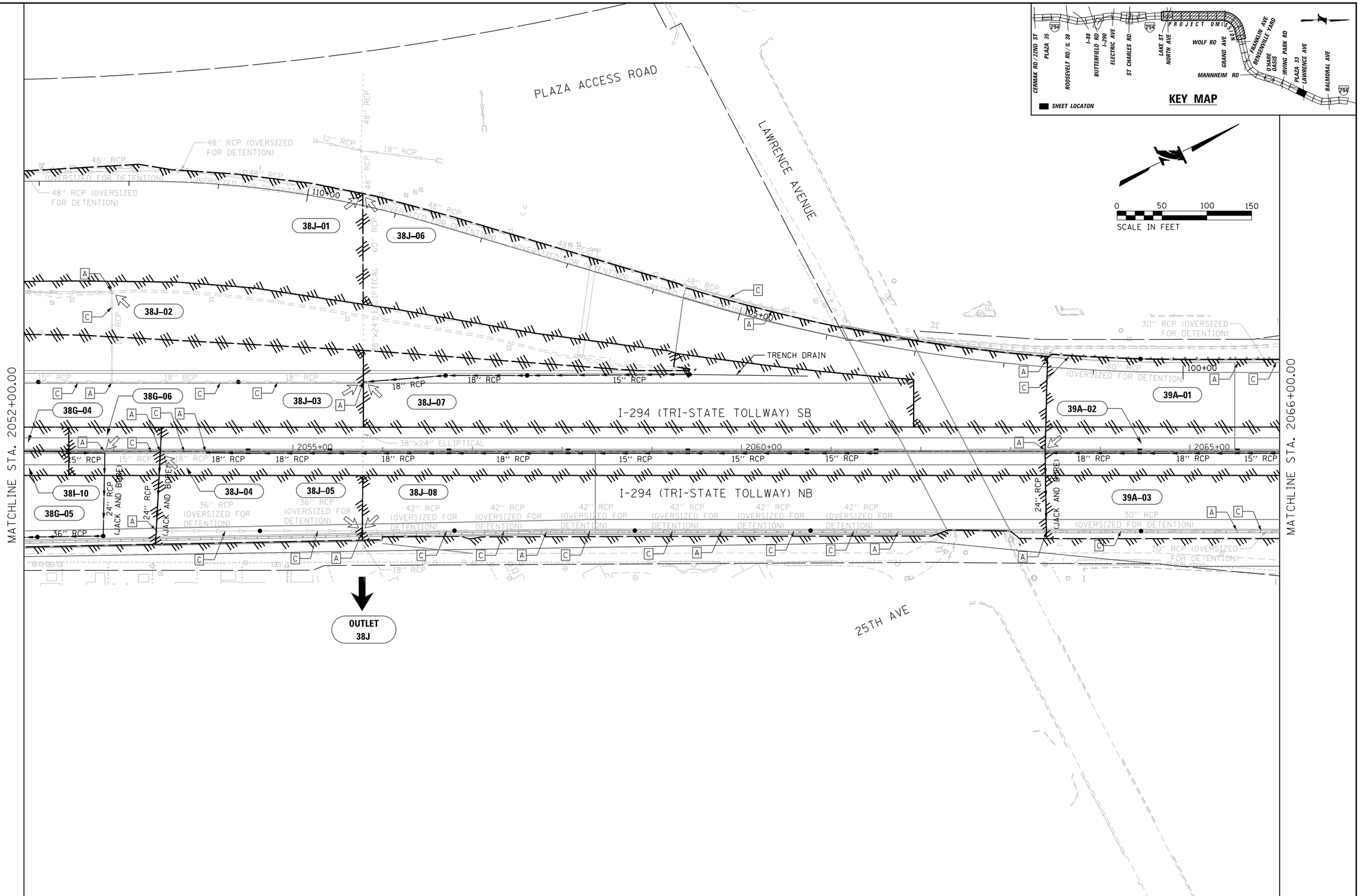

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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12/22/2017
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CHECKED BY	JJW	DATE	12/22/2017

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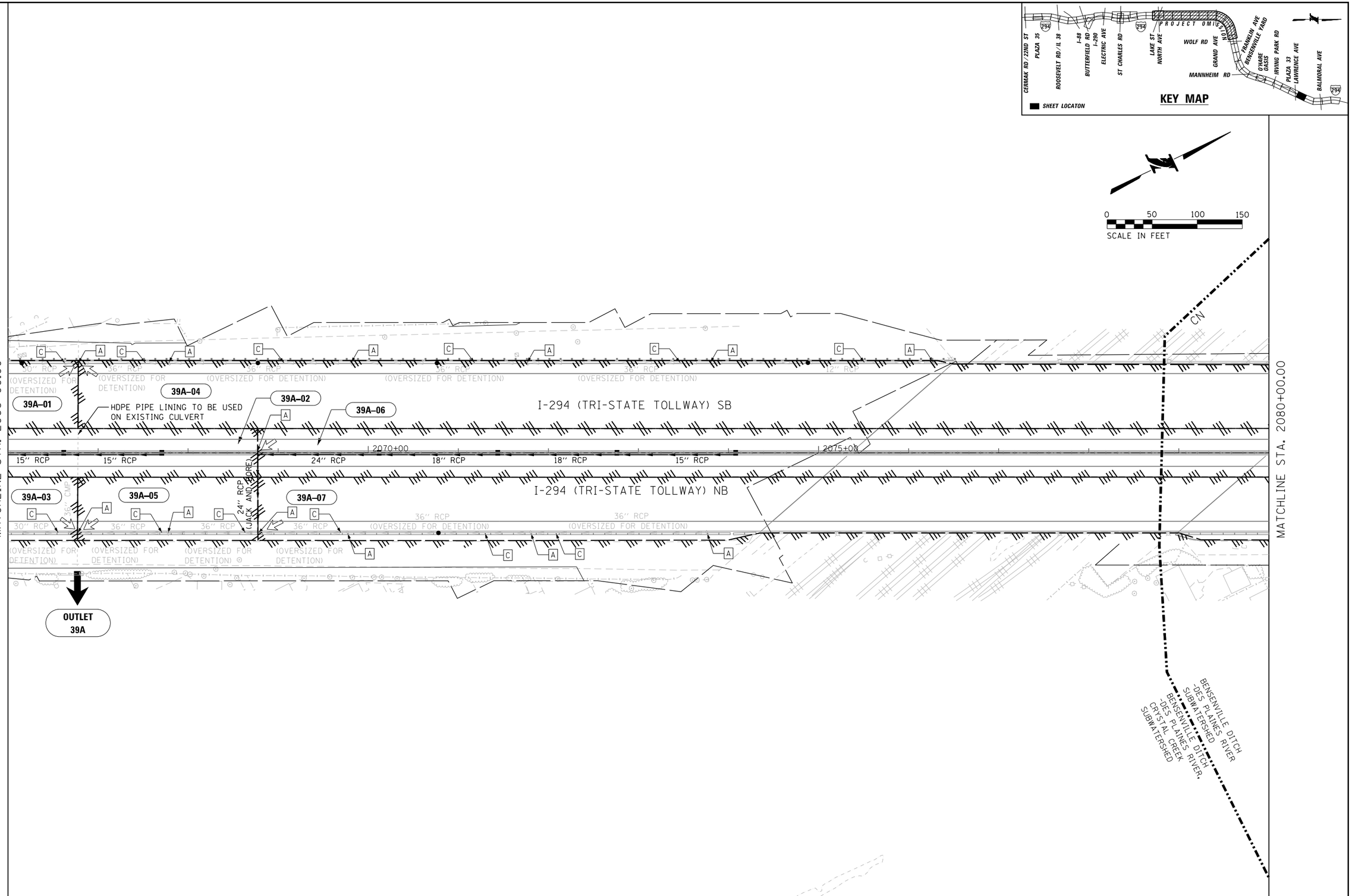
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-36
DRAWING NO. 88 OF 196



DRAWN BY	KRH	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-37
DRAWING NO. 89 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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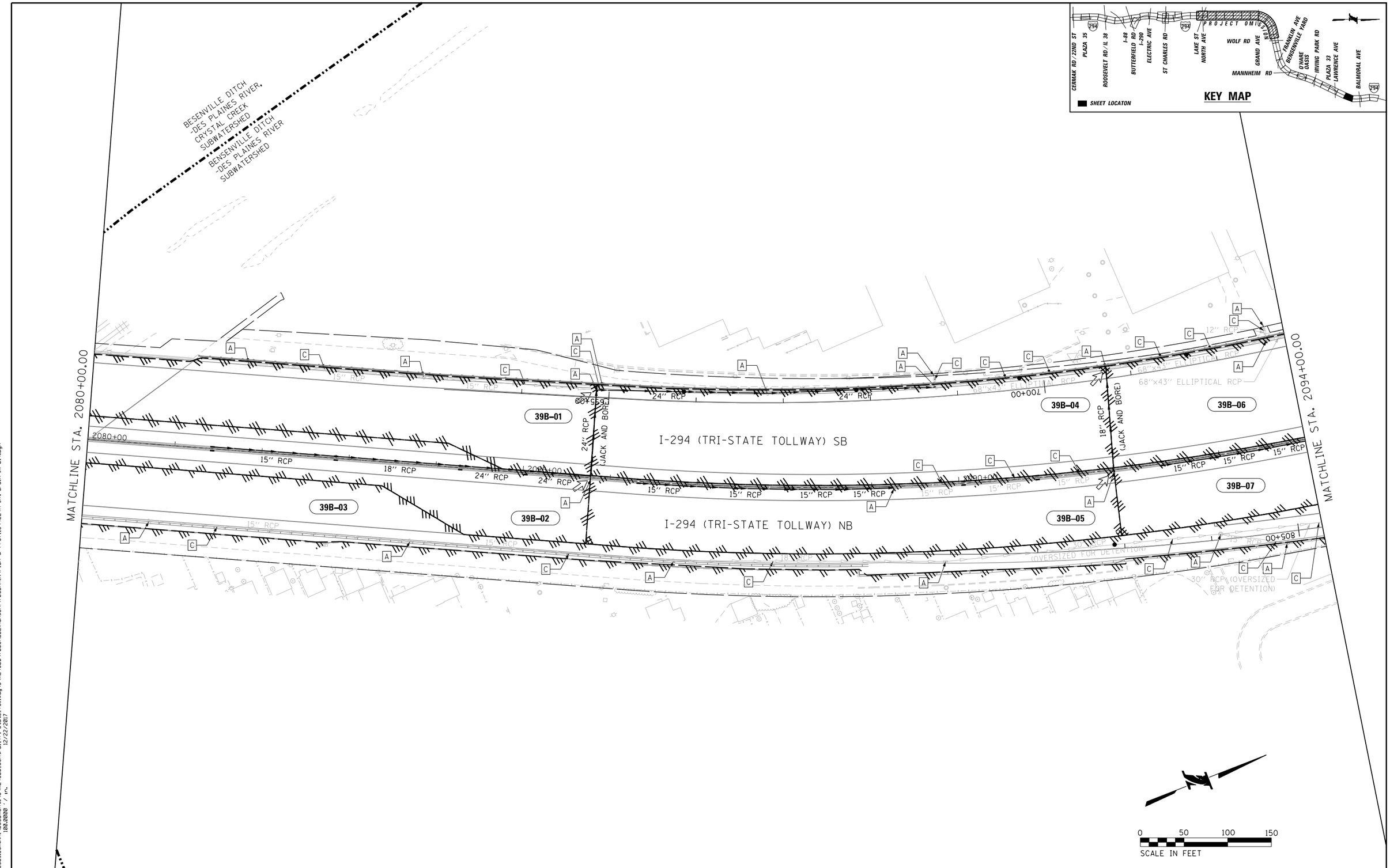

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CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-38
DRAWING NO. 90 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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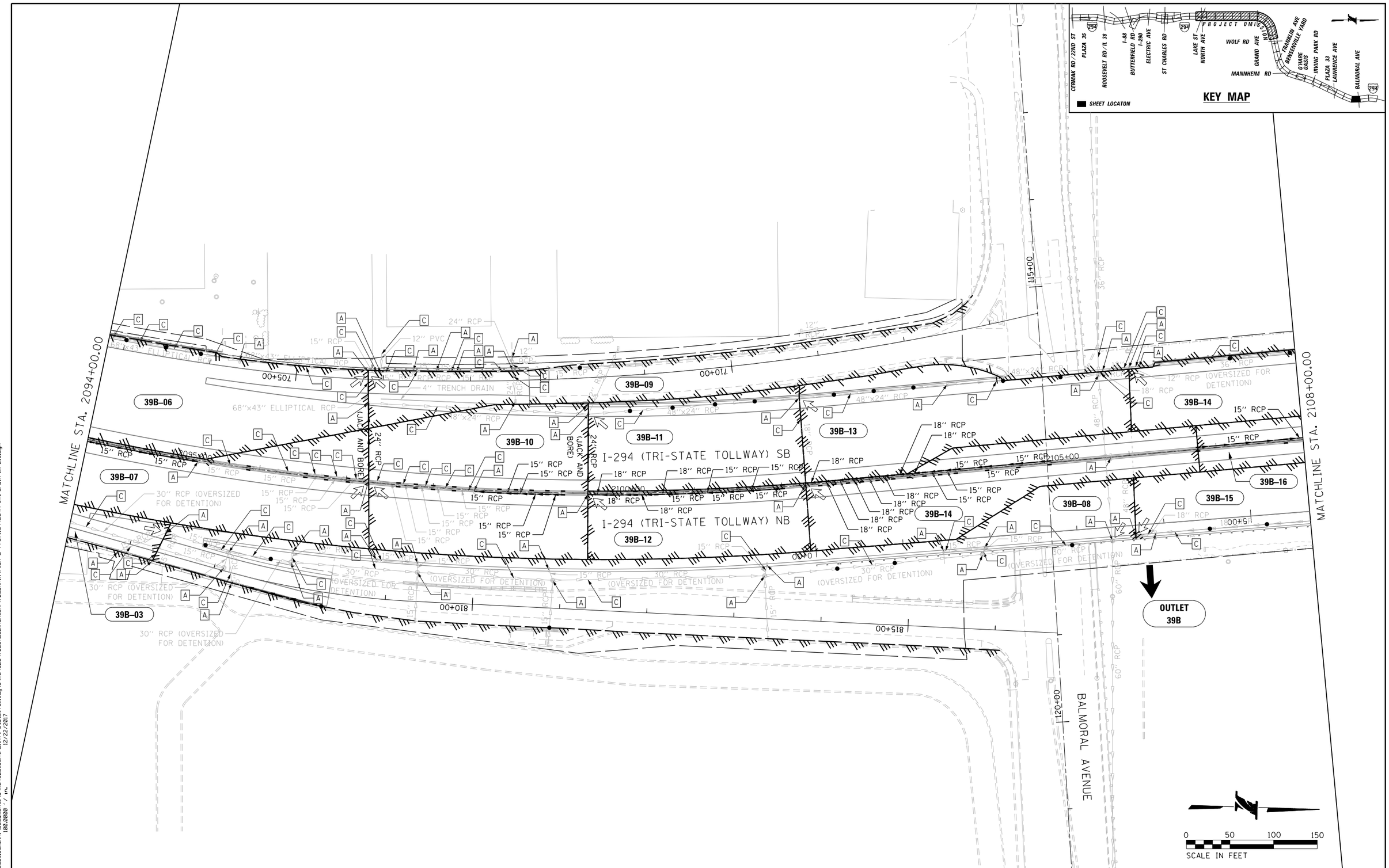

DRAWN BY	KRH	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-39
DRAWING NO. 91 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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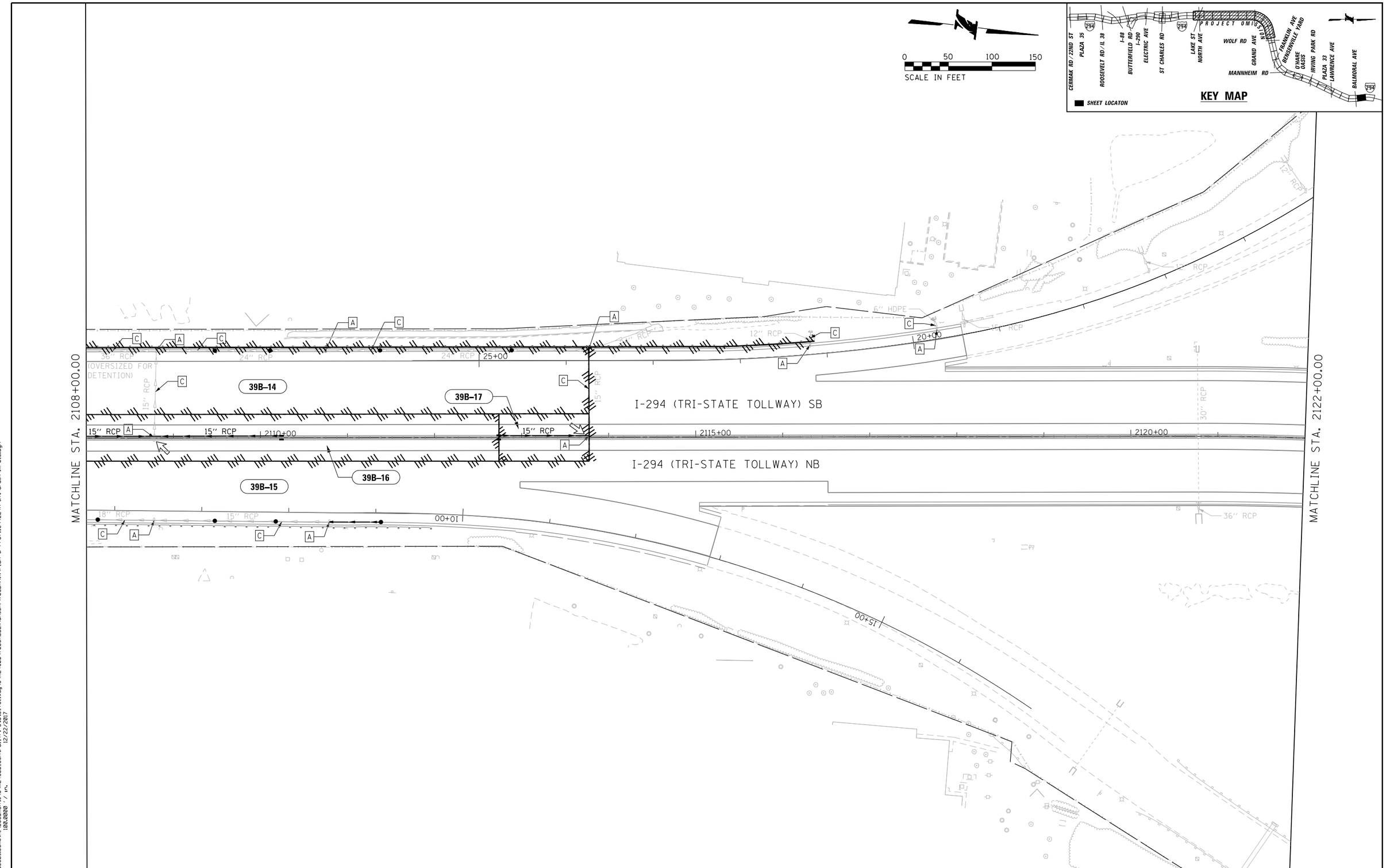

DRAWN BY	KRH	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO.
PDP-40
DRAWING NO.
92 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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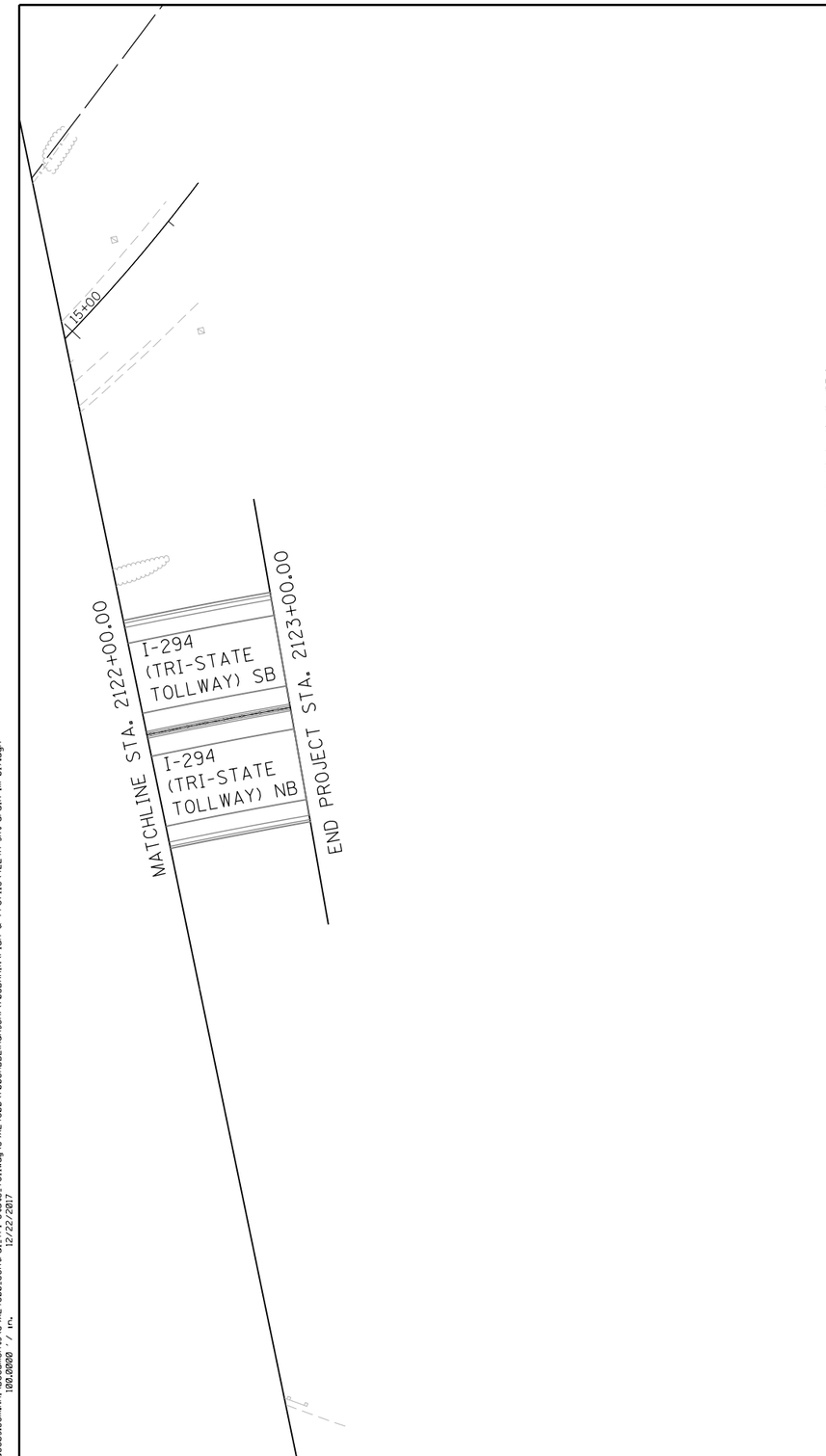

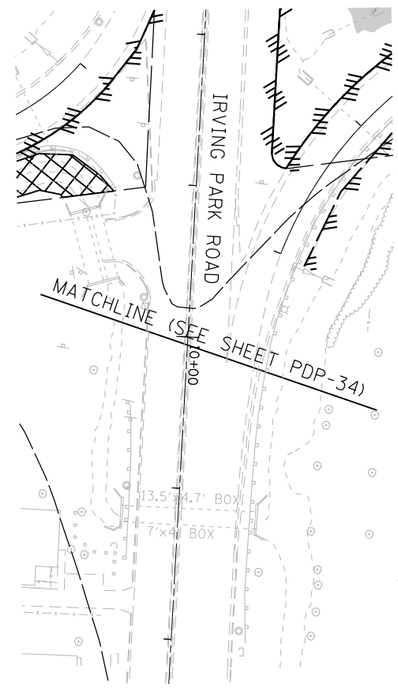

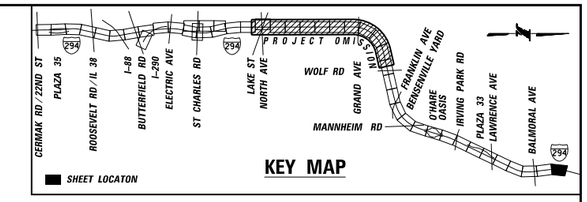

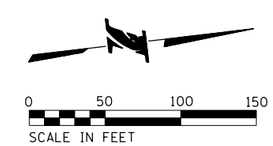

DRAWN BY	KRH	SCALE	1'' = 50'
CHECKED BY	JJW	DATE	12/22/2017

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-4
PROPOSED DRAINAGE PLAN

SHEET NO. PDP-41
DRAWING NO. 93 OF 196

LAYOUT	KAS	10/26/17
DRAWN	KAS	10/26/17
REVIEWED	JJW	--

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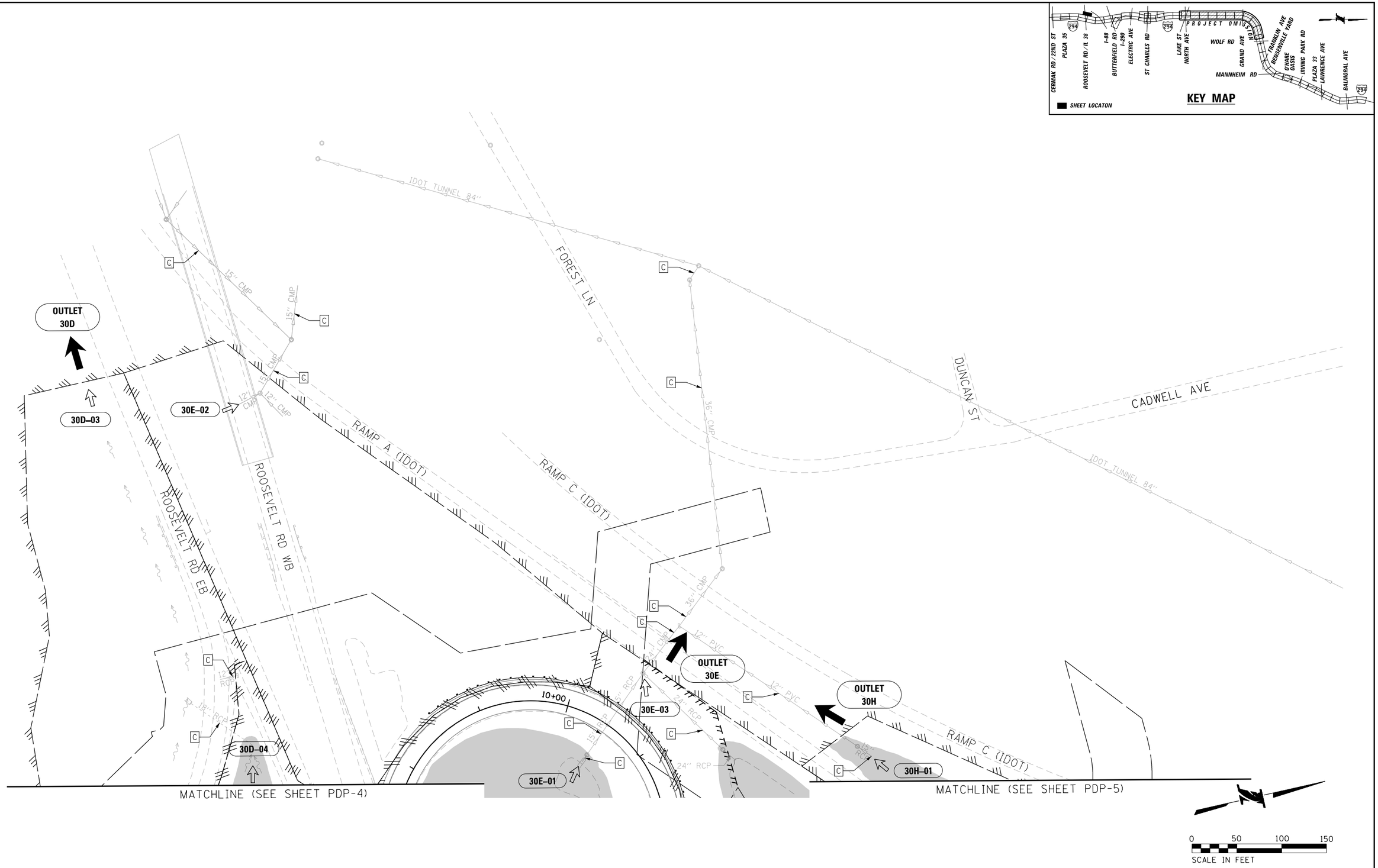
12/22/2017



DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN
					SHEET NO. PDP-43 DRAWING NO. 94 OF 196

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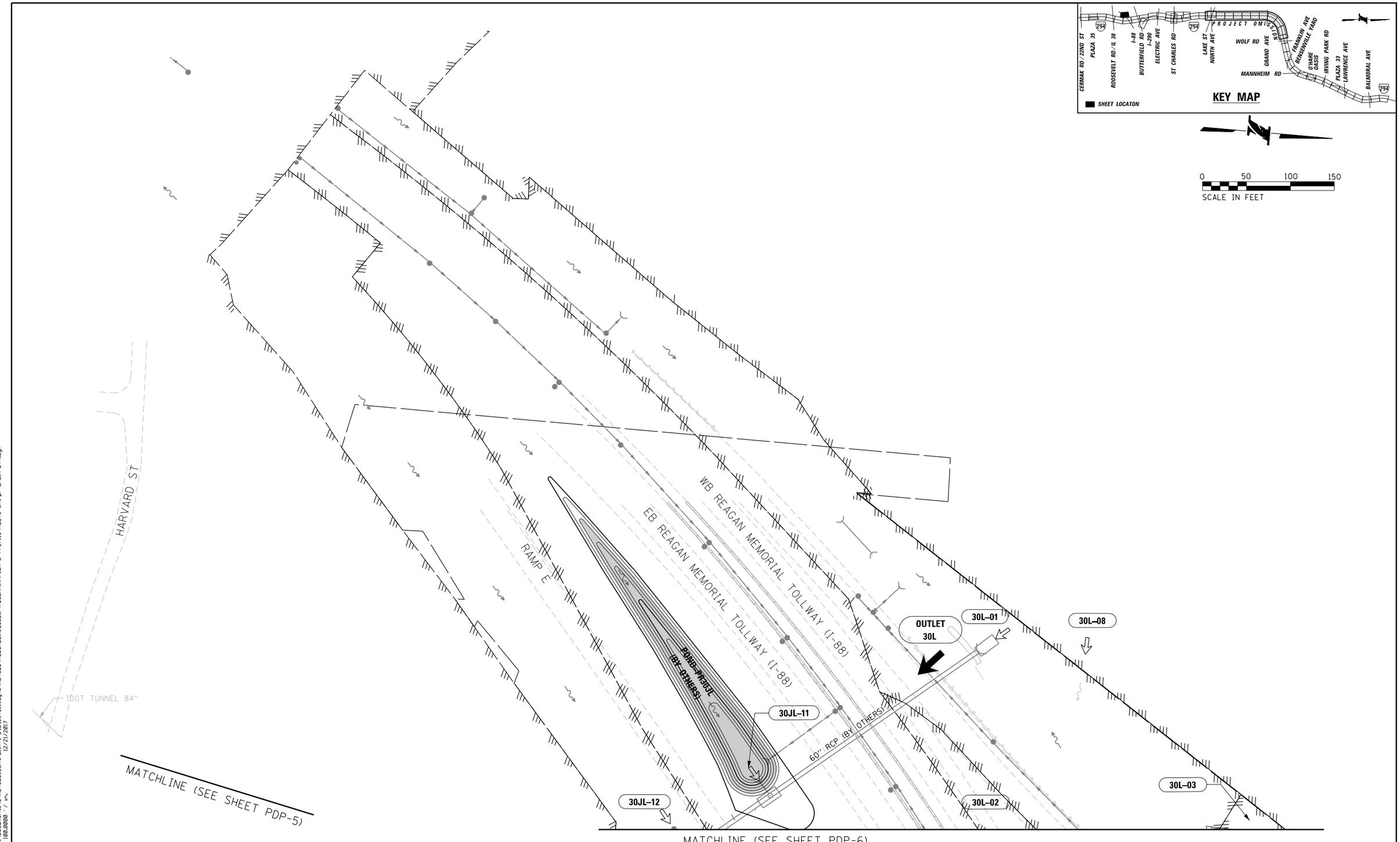

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CHECKED BY SN	DATE 12/22/2017			REVISIONS: NO. / DATE / DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-44
DRAWING NO. 95 OF 196

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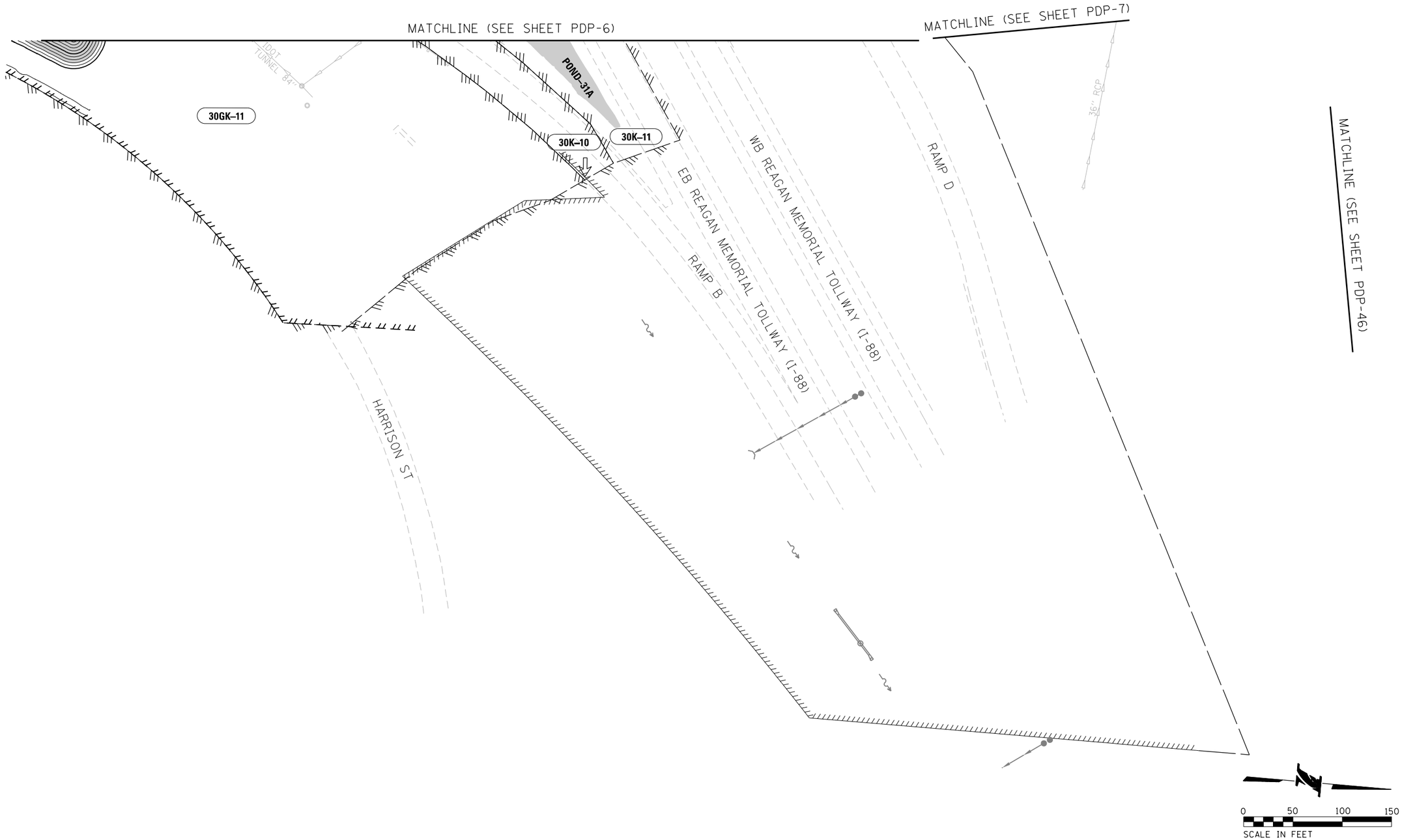

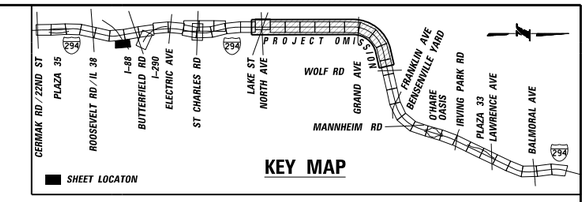

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224 EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN	SHEET NO. PDP-45 DRAWING NO. 96 OF 196
CHECKED BY SN	DATE 12/22/2017						

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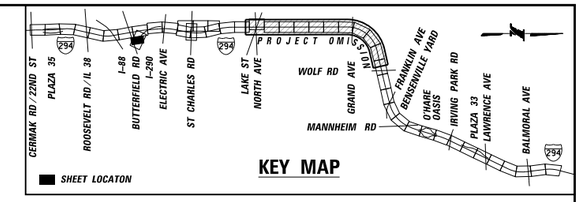

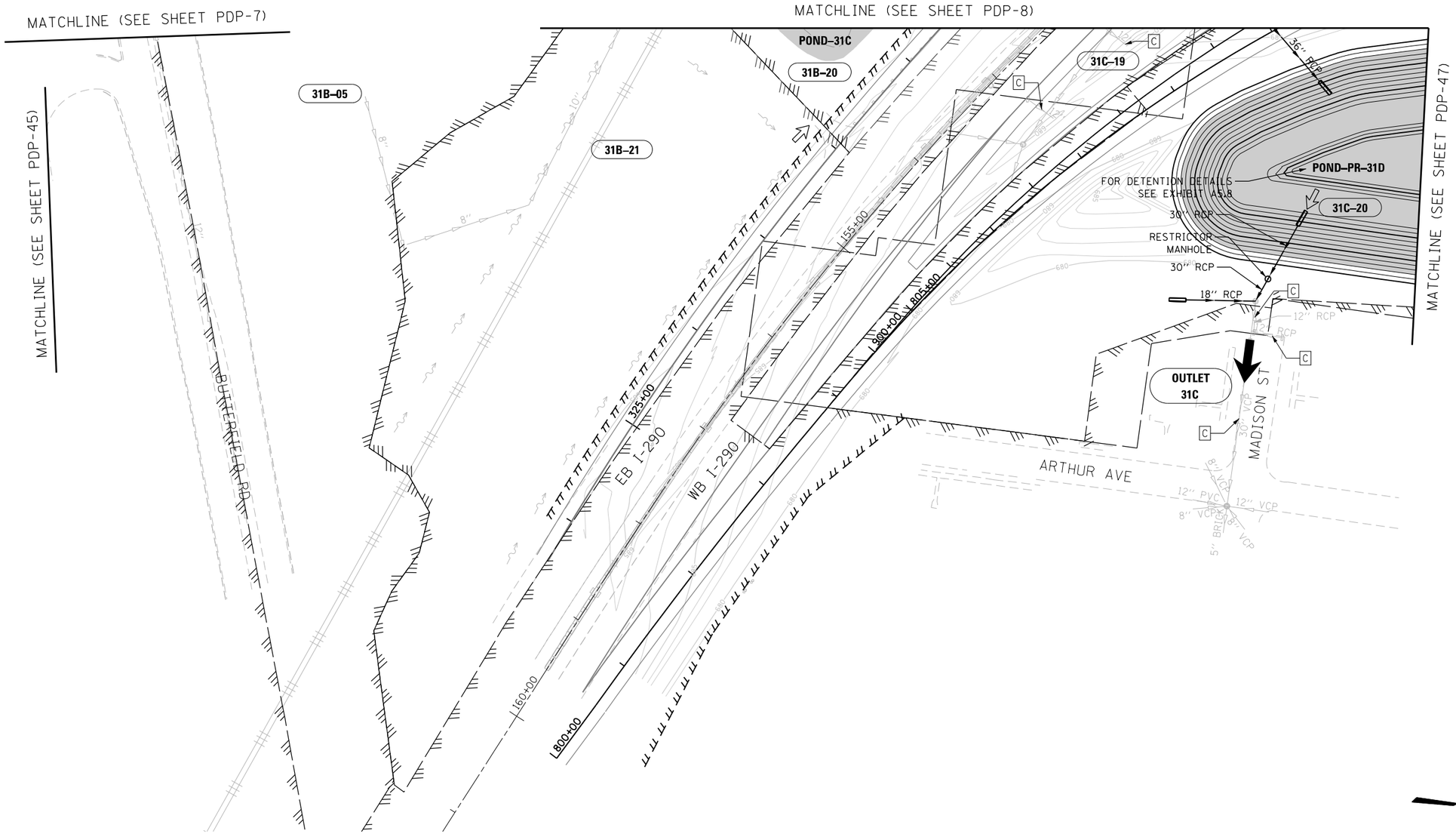

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CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-46
DRAWING NO. 97 OF 196

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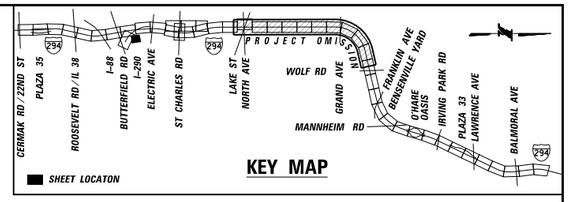

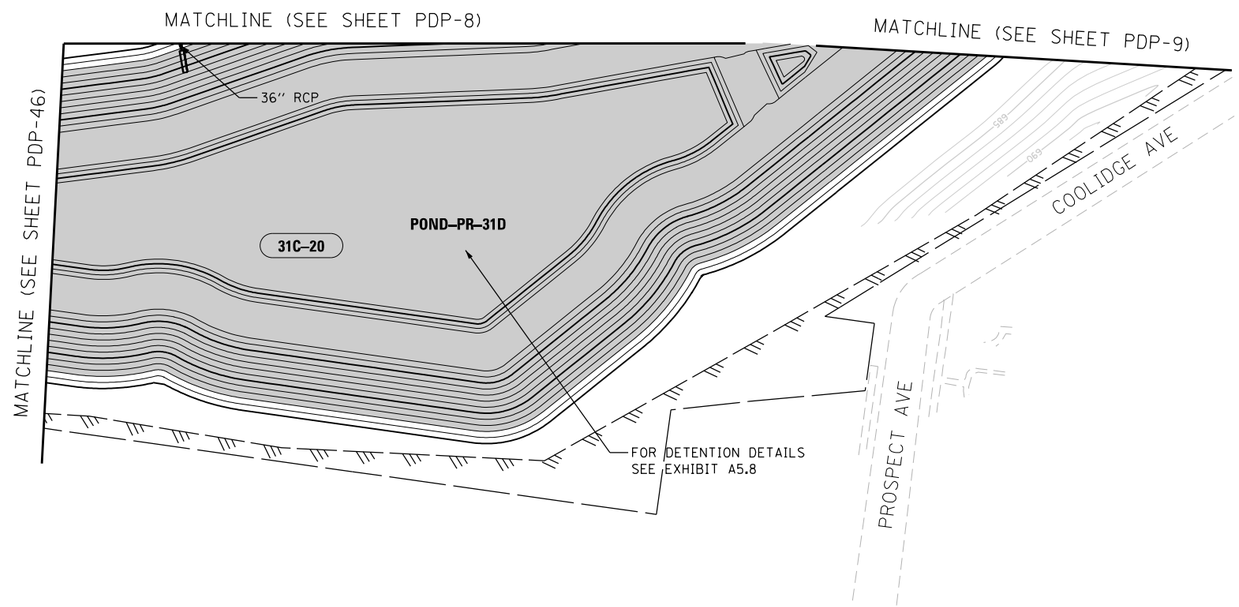

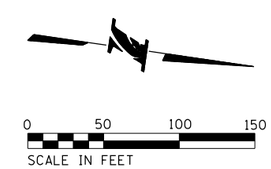

DRAWN BY KLG	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224	SHEET NO. PDP-47
CHECKED BY SN	DATE 12/22/2017					EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN	DRAWING NO. 98 OF 196

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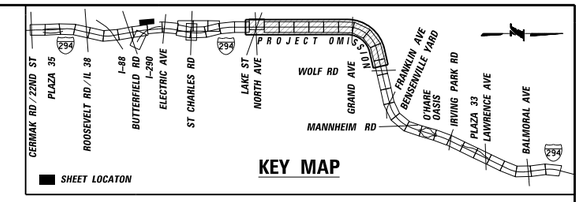

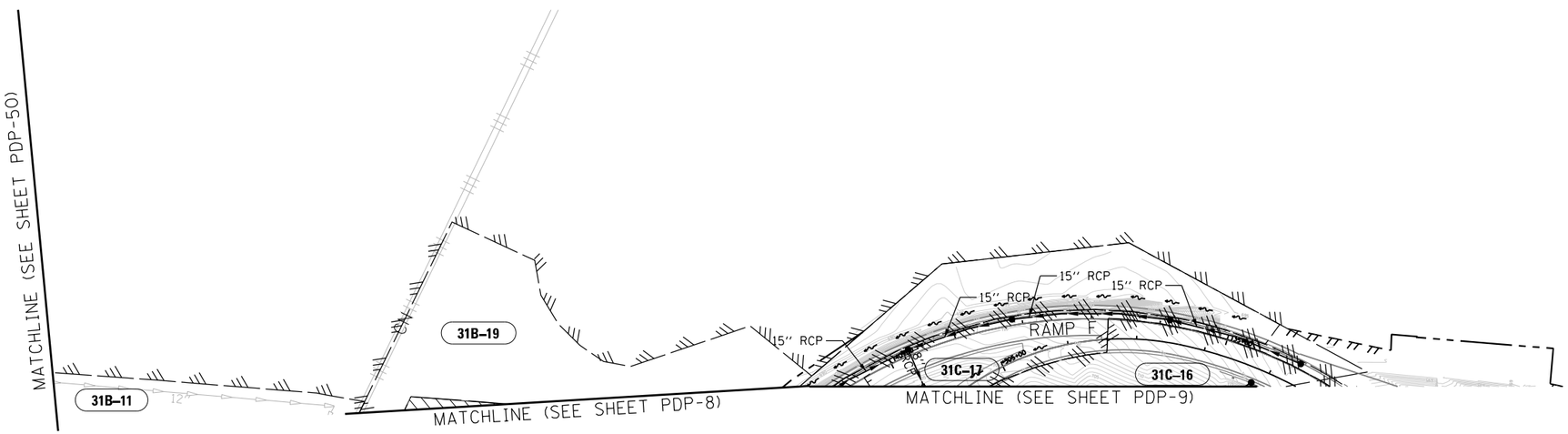

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CHECKED BY SN	DATE 12/22/2017			REVISIONS NO. DATE DESCRIPTION	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-48
DRAWING NO. 99 OF 196

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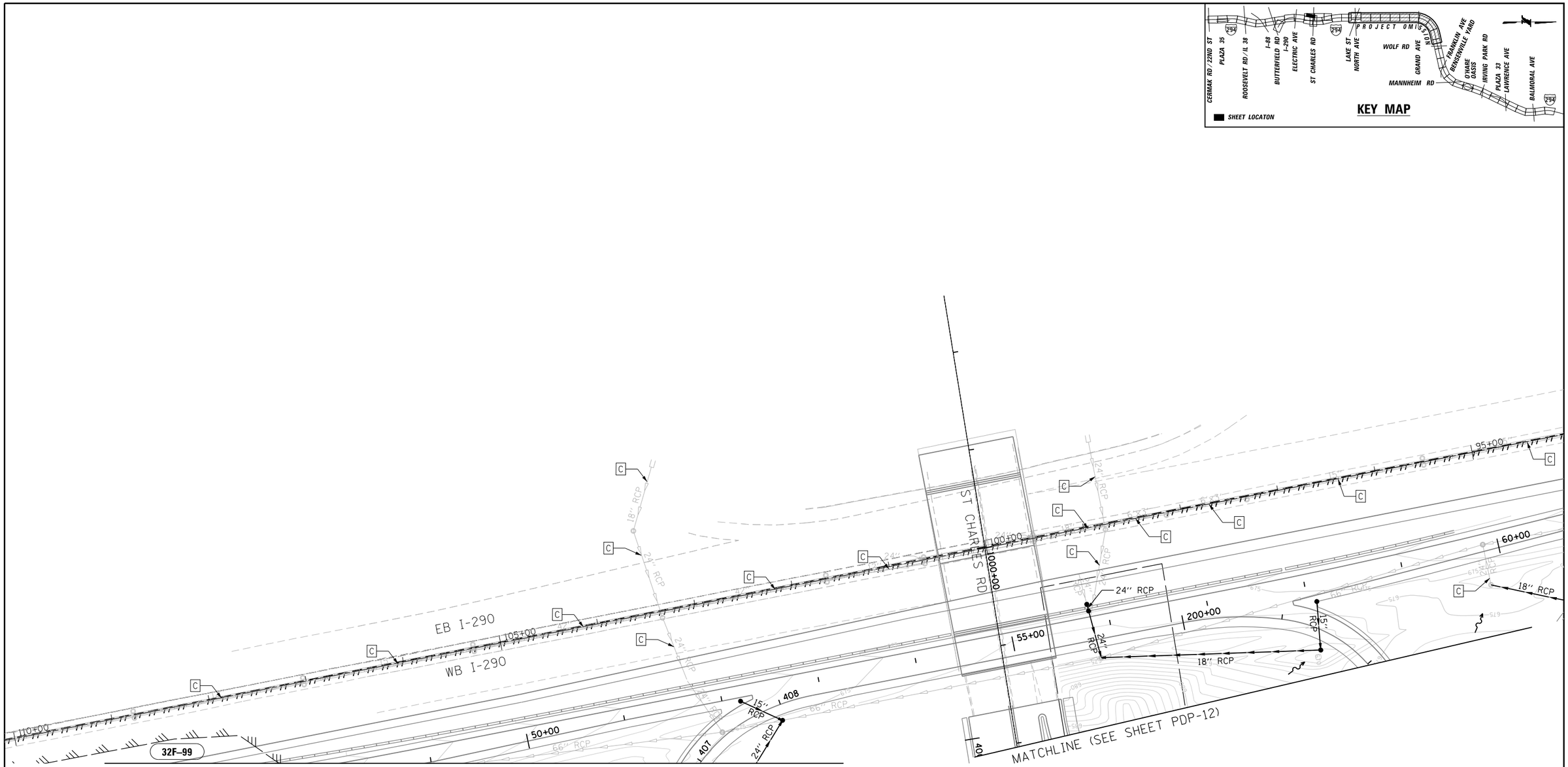

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CHECKED BY SN	DATE 12/22/2017						

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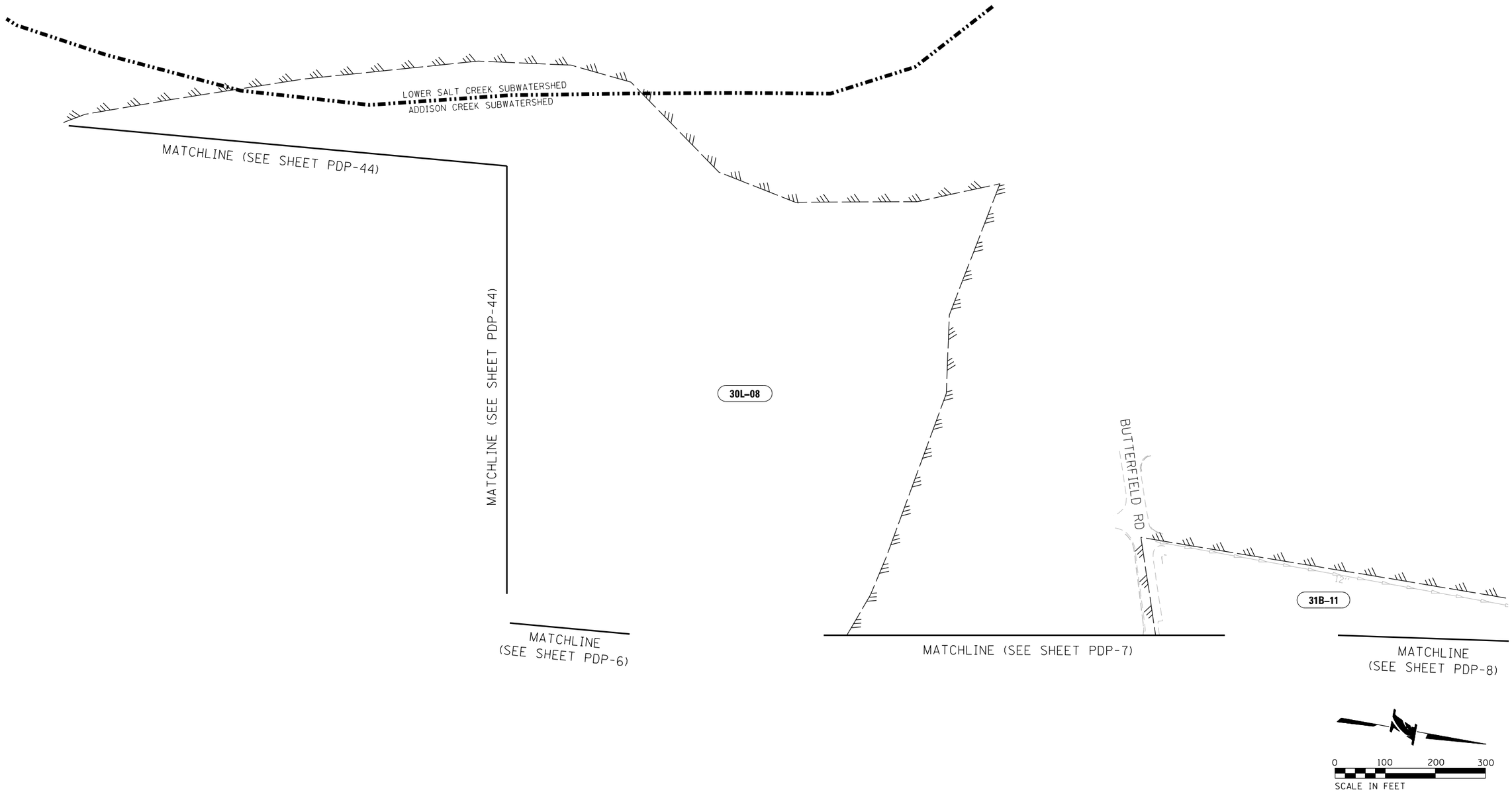

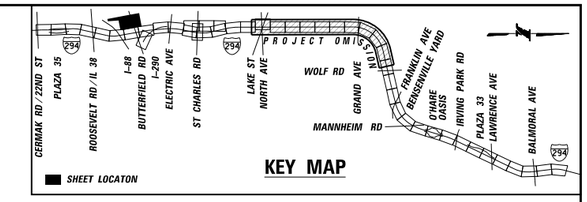

DRAWN BY KLG	SCALE 1" = 100'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224
CHECKED BY SN	DATE 12/22/2017			REVISIONS (NO. / DATE / DESCRIPTION)	EXHIBIT A5.5-4 PROPOSED DRAINAGE PLAN

SHEET NO. PDP-50
DRAWING NO. 101 OF 196

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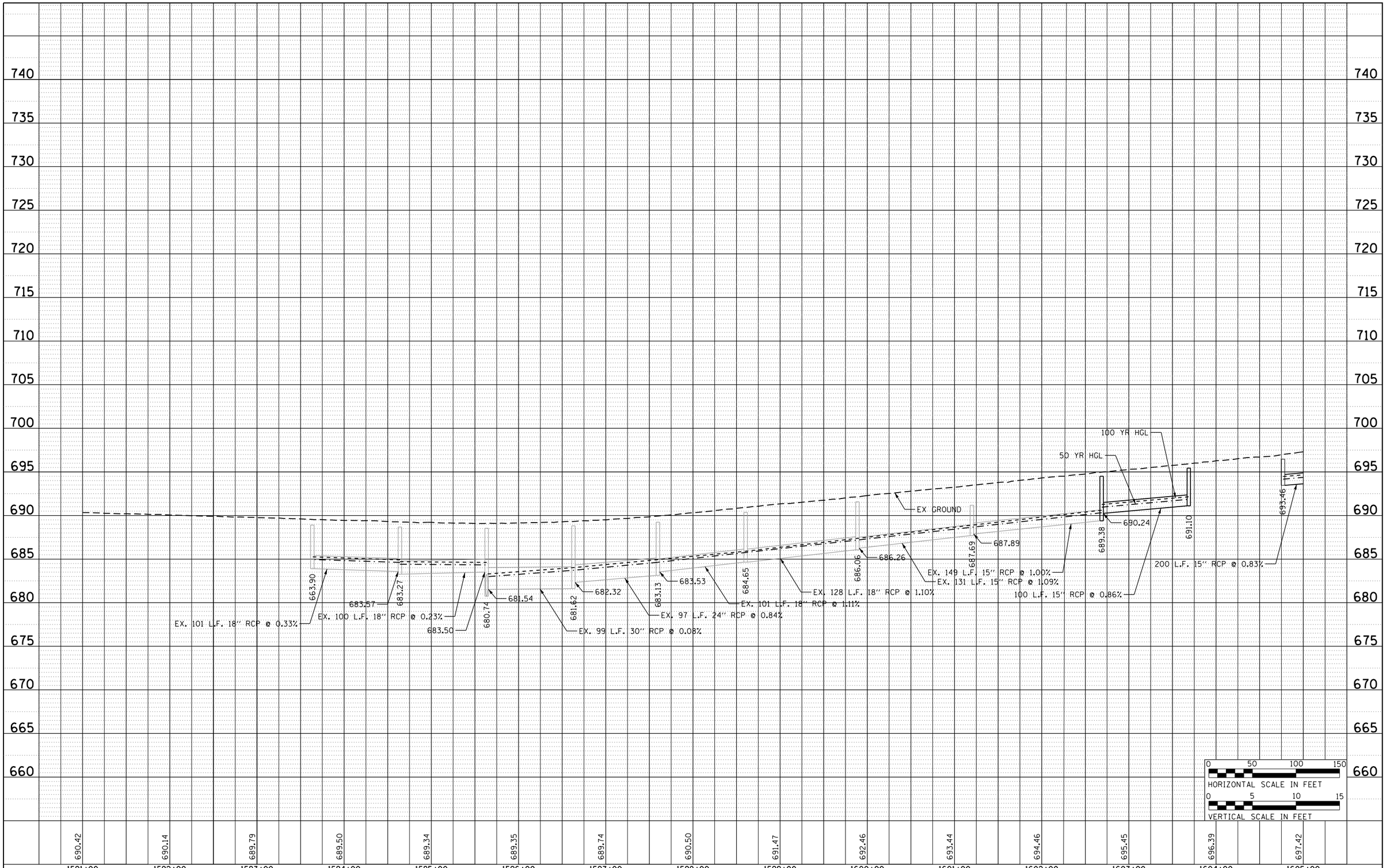

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

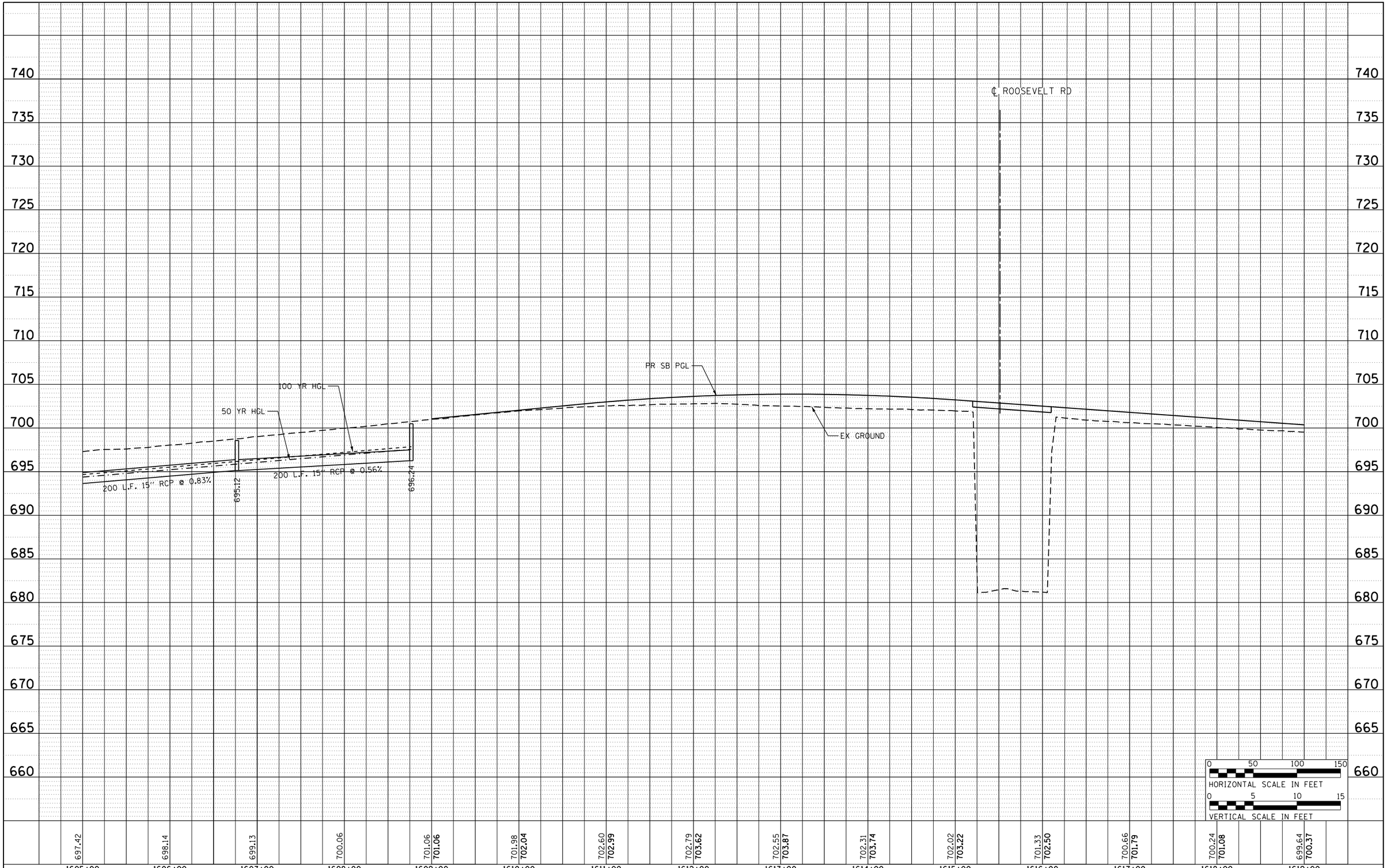
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-01
DRAWING NO. 102 OF 196



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DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

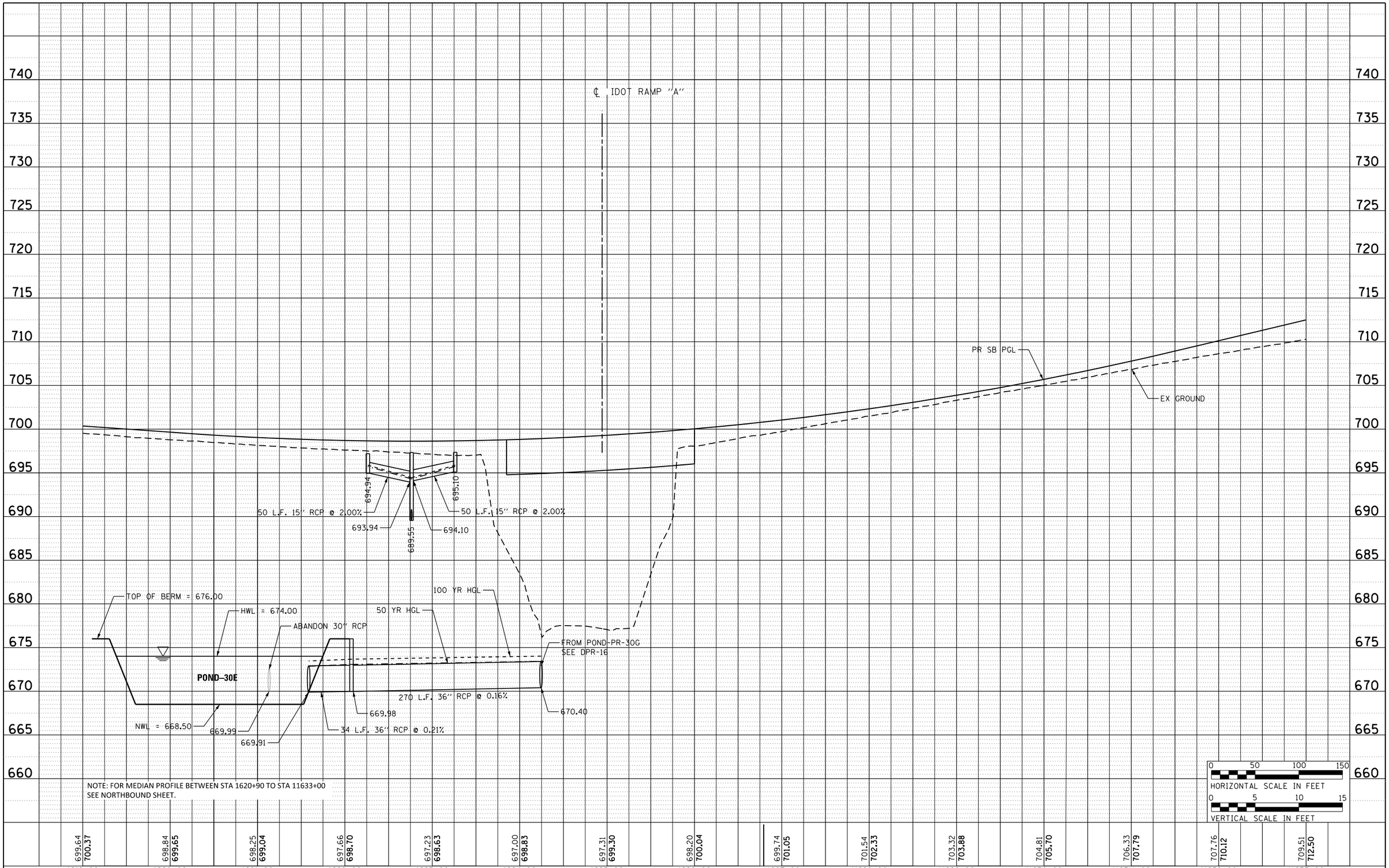
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-02
DRAWING NO. 103 OF 196



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CHECKED BY	SN	DATE	12/22/2017

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525 W. Monroe Suite 1600
Chicago, Illinois 60661
Telephone: 312.251.3000
Fax: 312.251.3015

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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-03
DRAWING NO. 104 OF 196

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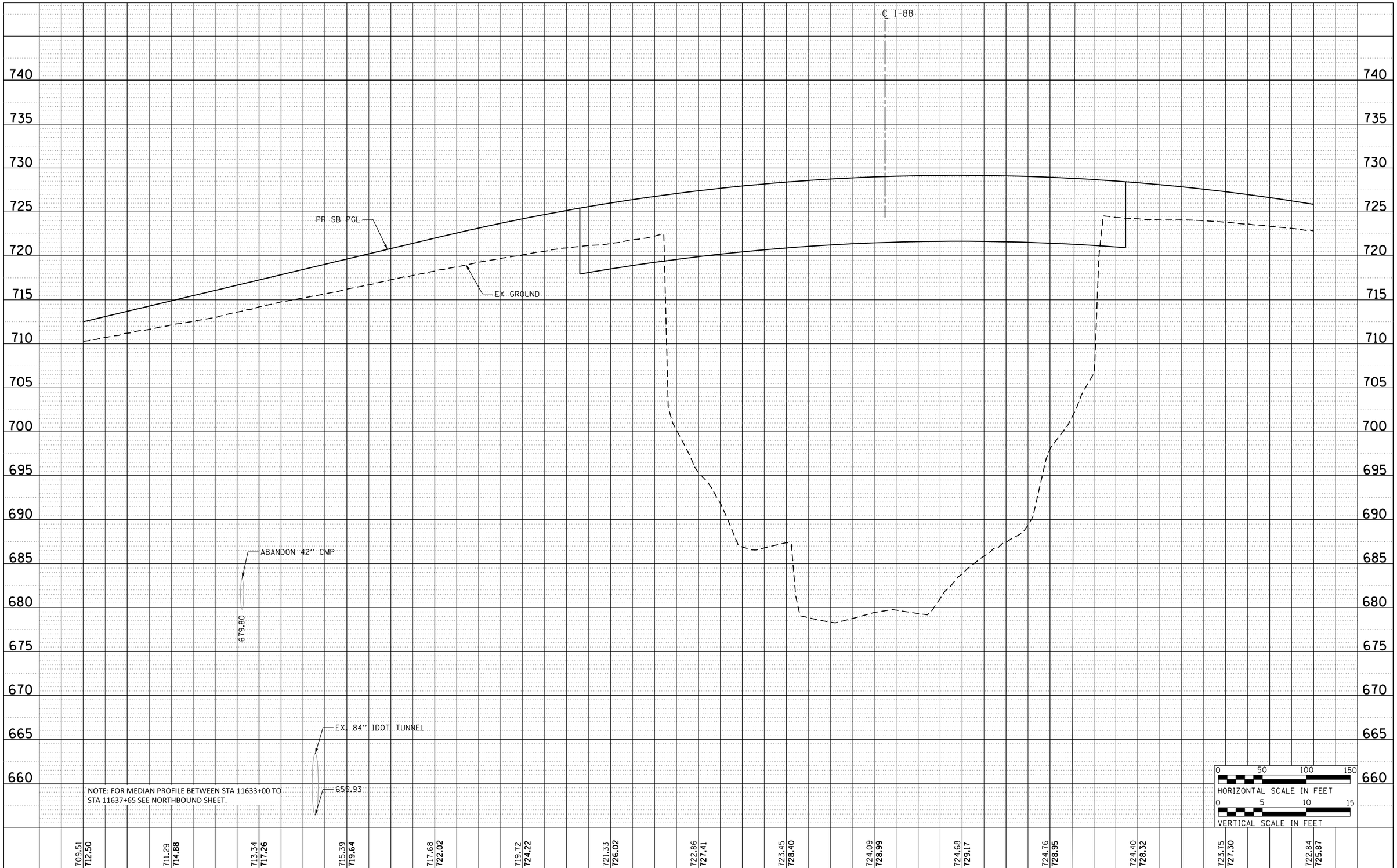

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DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
CHECKED BY SN	DATE 12/22/2017		

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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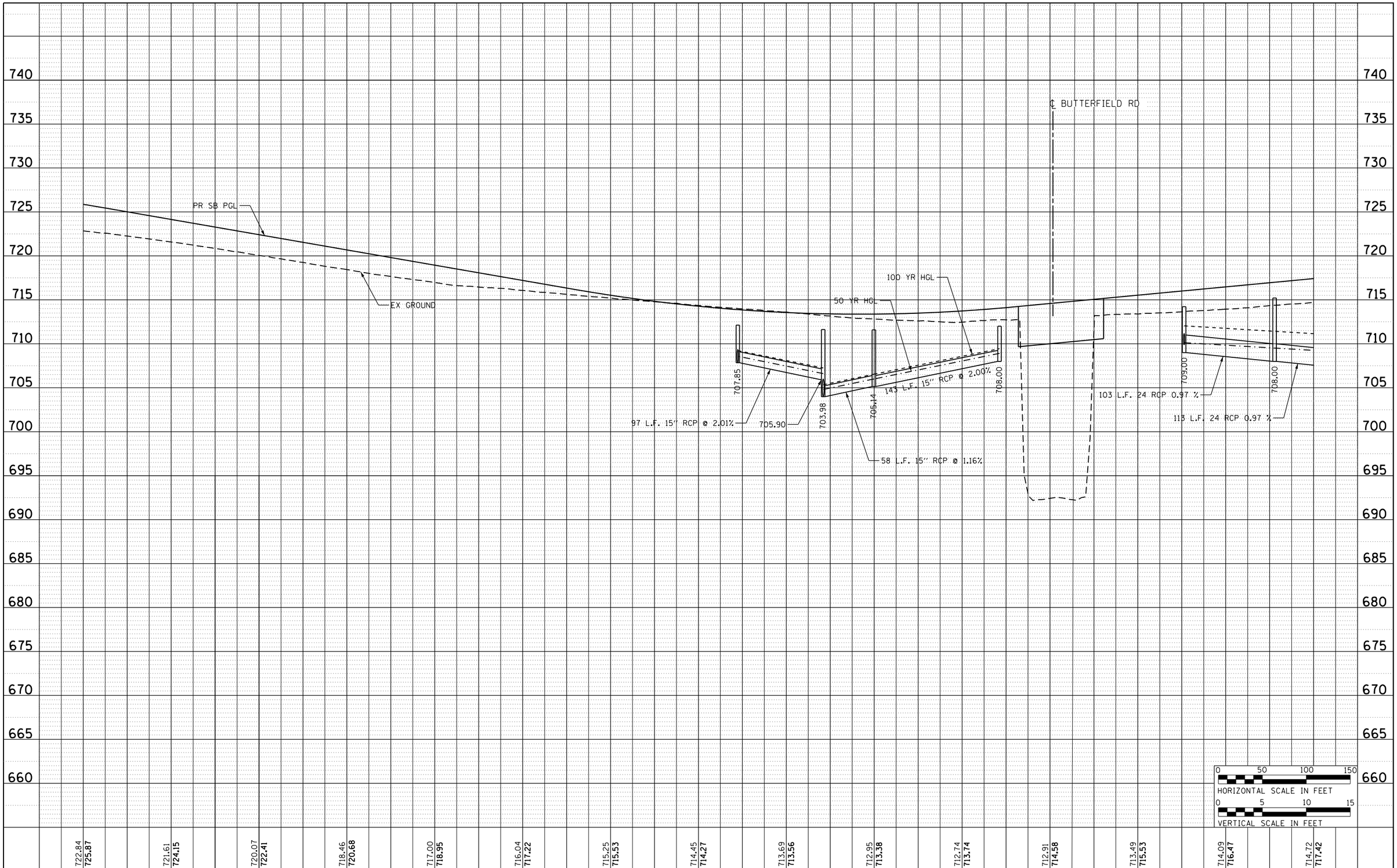
REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-04
DRAWING NO. 105 OF 196



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DRAWN BY SJM	SCALE 1" = 50'	JACOBS 525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY SN	DATE 12/22/2017		

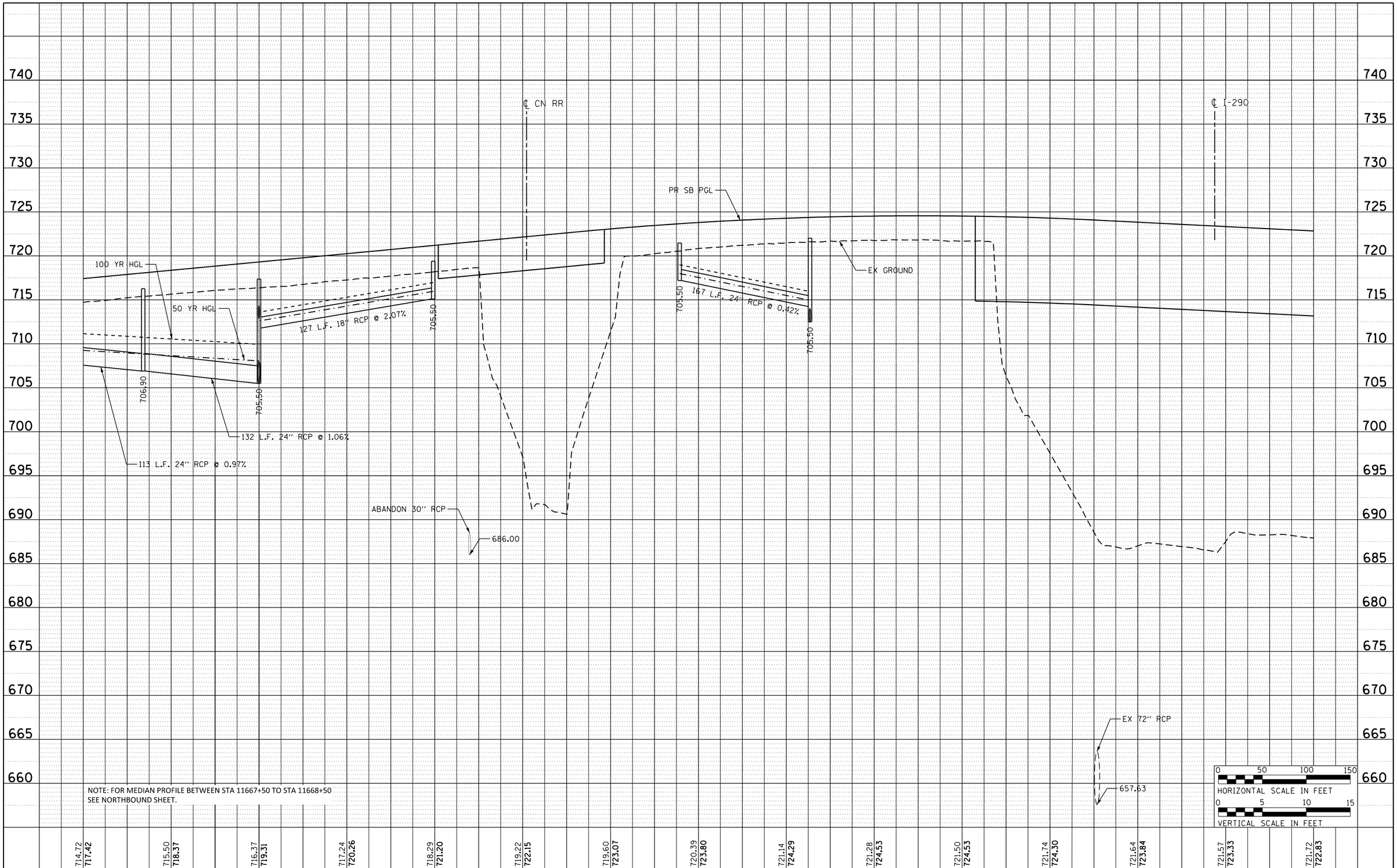
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-05
DRAWING NO. 106 OF 196



NOTE: FOR MEDIAN PROFILE BETWEEN STA 11667+50 TO STA 11668+50
SEE NORTHBOUND SHEET.

DRAWN BY	SJM	SCALE	1" = 50'
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JACOBS
525 W. Monroe Suite 1600
Chicago, Illinois 60661
Telephone: 312.251.3000
Fax: 312.251.3015

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-06
DRAWING NO. 107 OF 196

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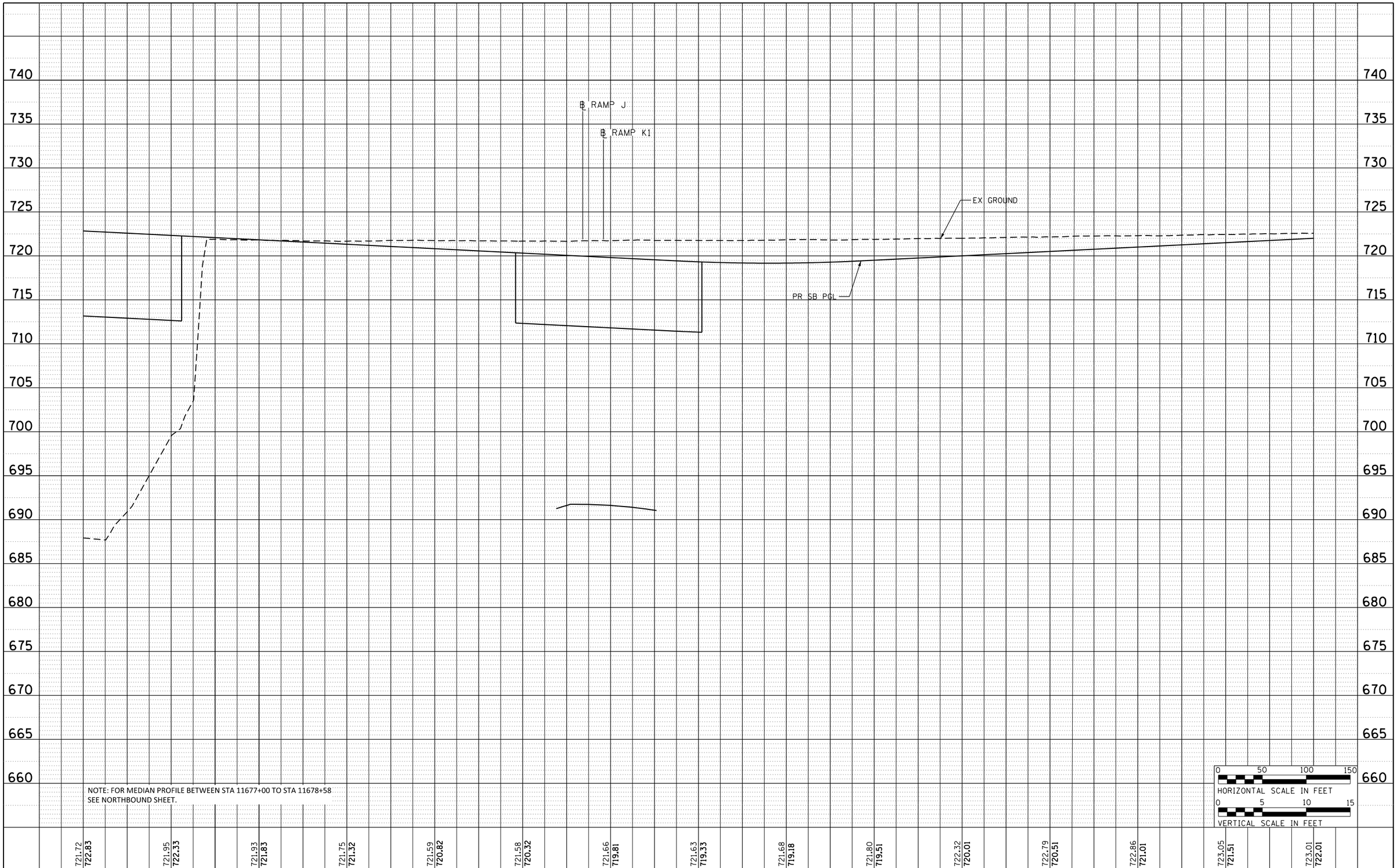

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
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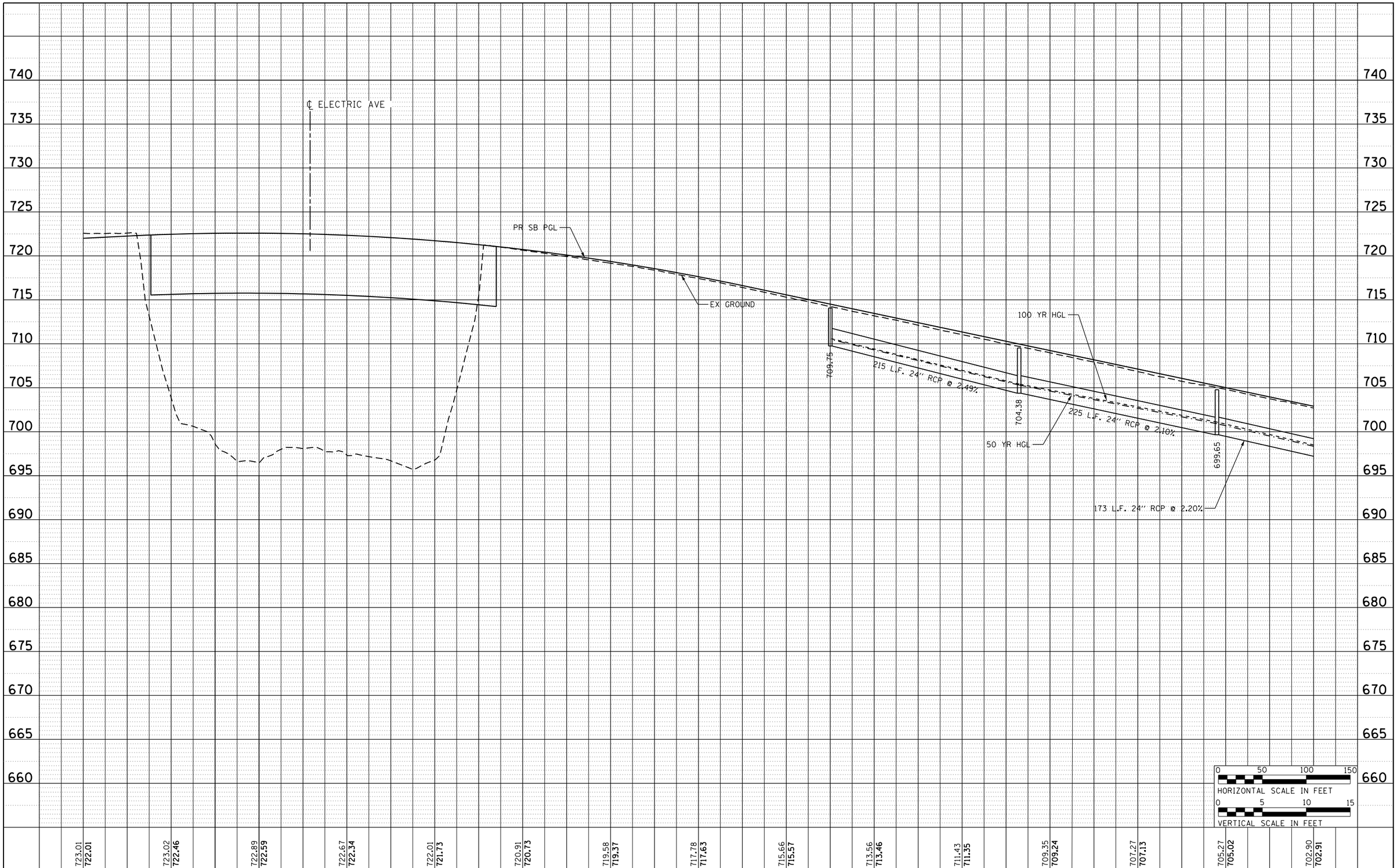
REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-07
DRAWING NO. 108 OF 196



DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
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REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-08
DRAWING NO. 109 OF 196

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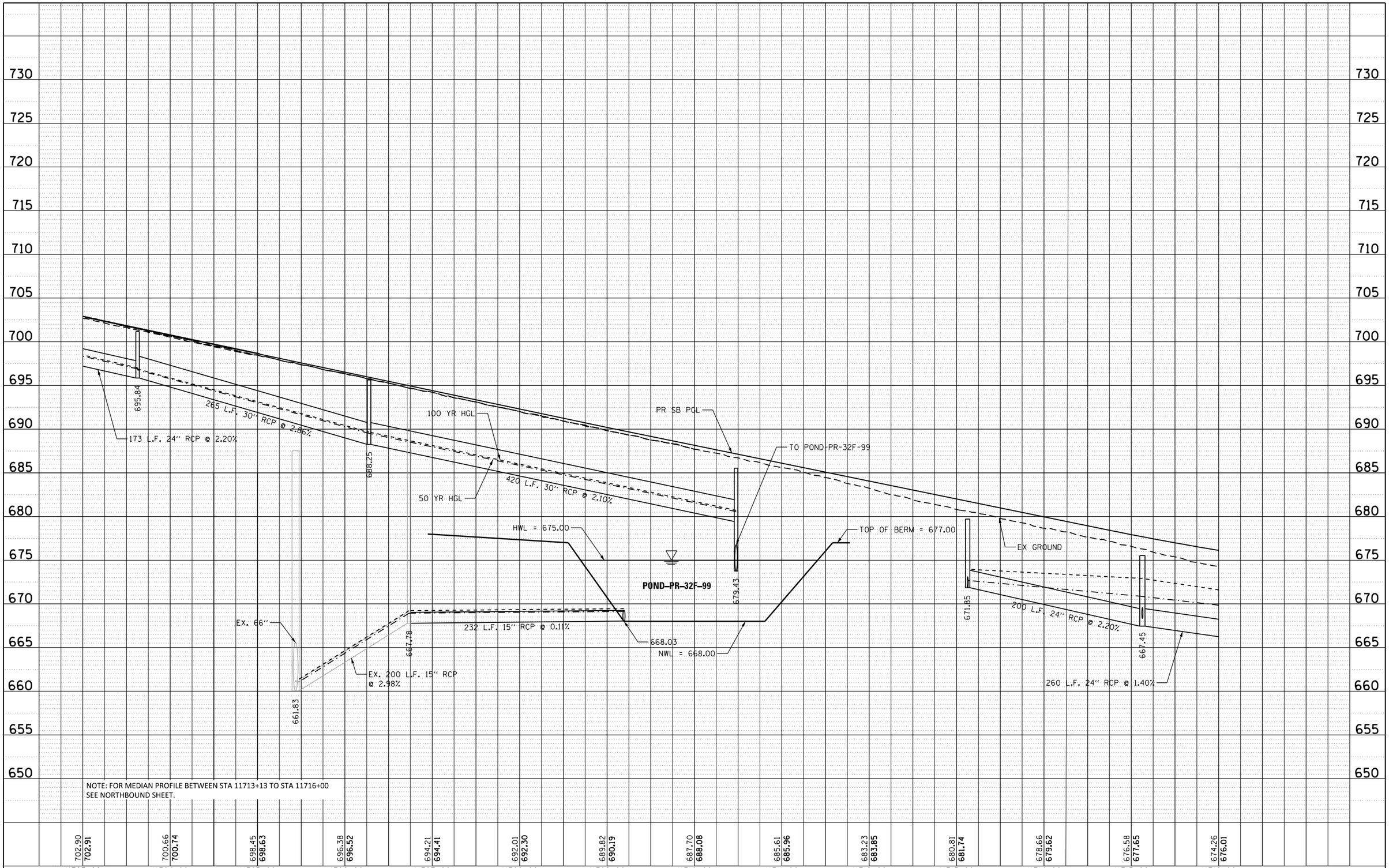

NOTE: FOR MEDIAN PROFILE BETWEEN STA 11713+13 TO STA 11716+00
SEE NORTHBOUND SHEET.

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EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-09
DRAWING NO. 110 OF 196

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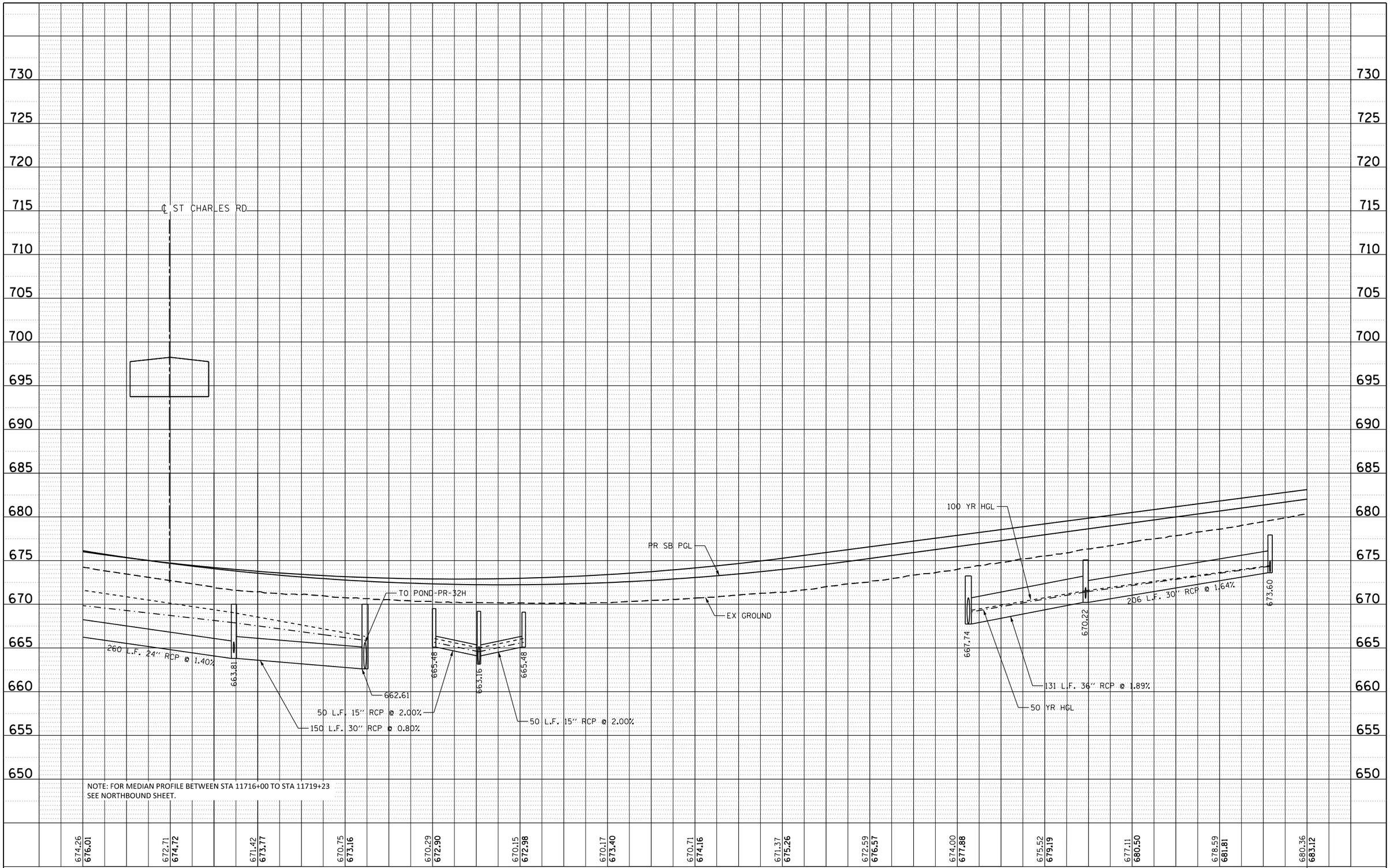

NOTE: FOR MEDIAN PROFILE BETWEEN STA 11716+00 TO STA 11719+23
SEE NORTHBOUND SHEET.

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NO.	DATE	DESCRIPTION

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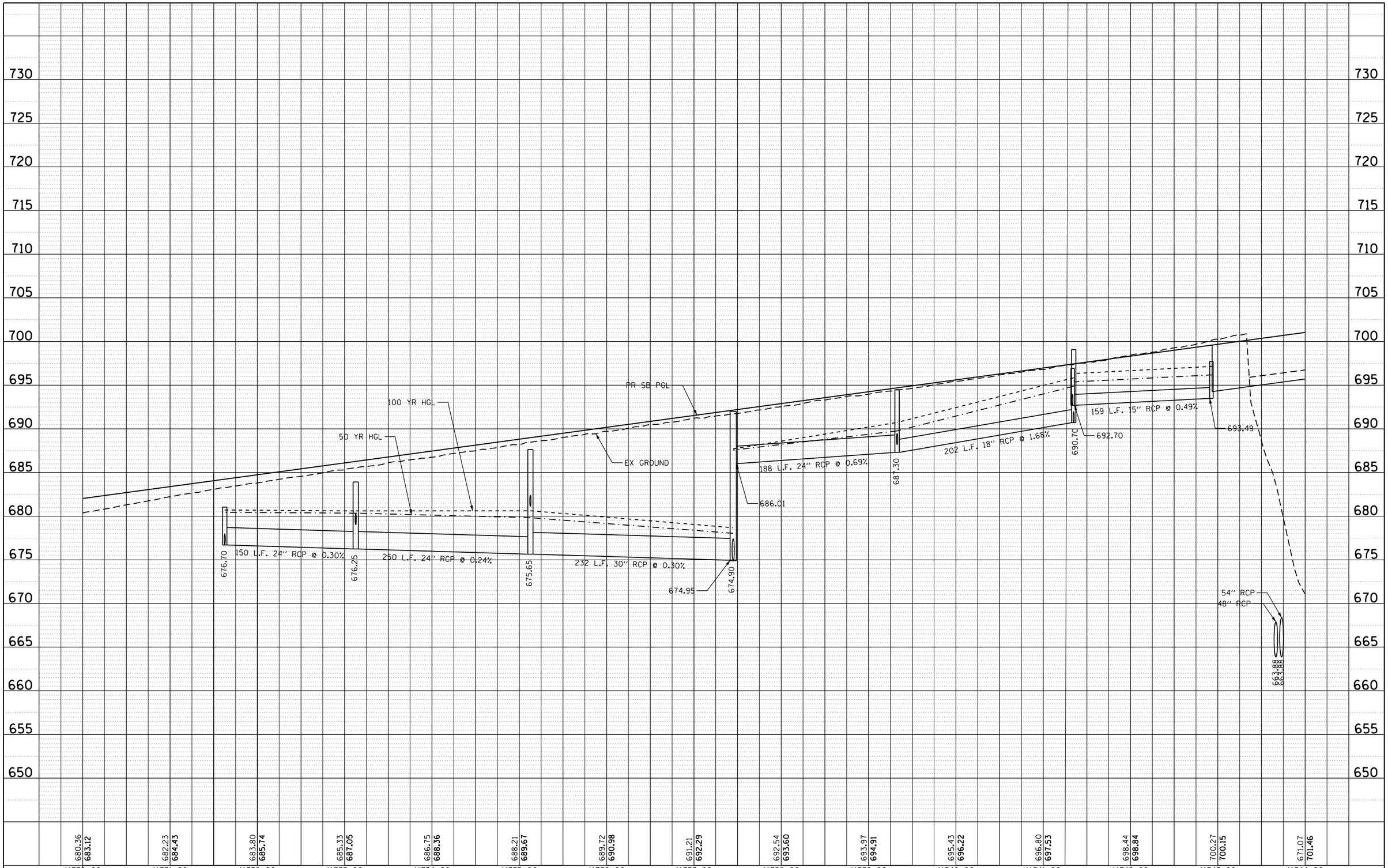
EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-10
DRAWING NO. 111 OF 196



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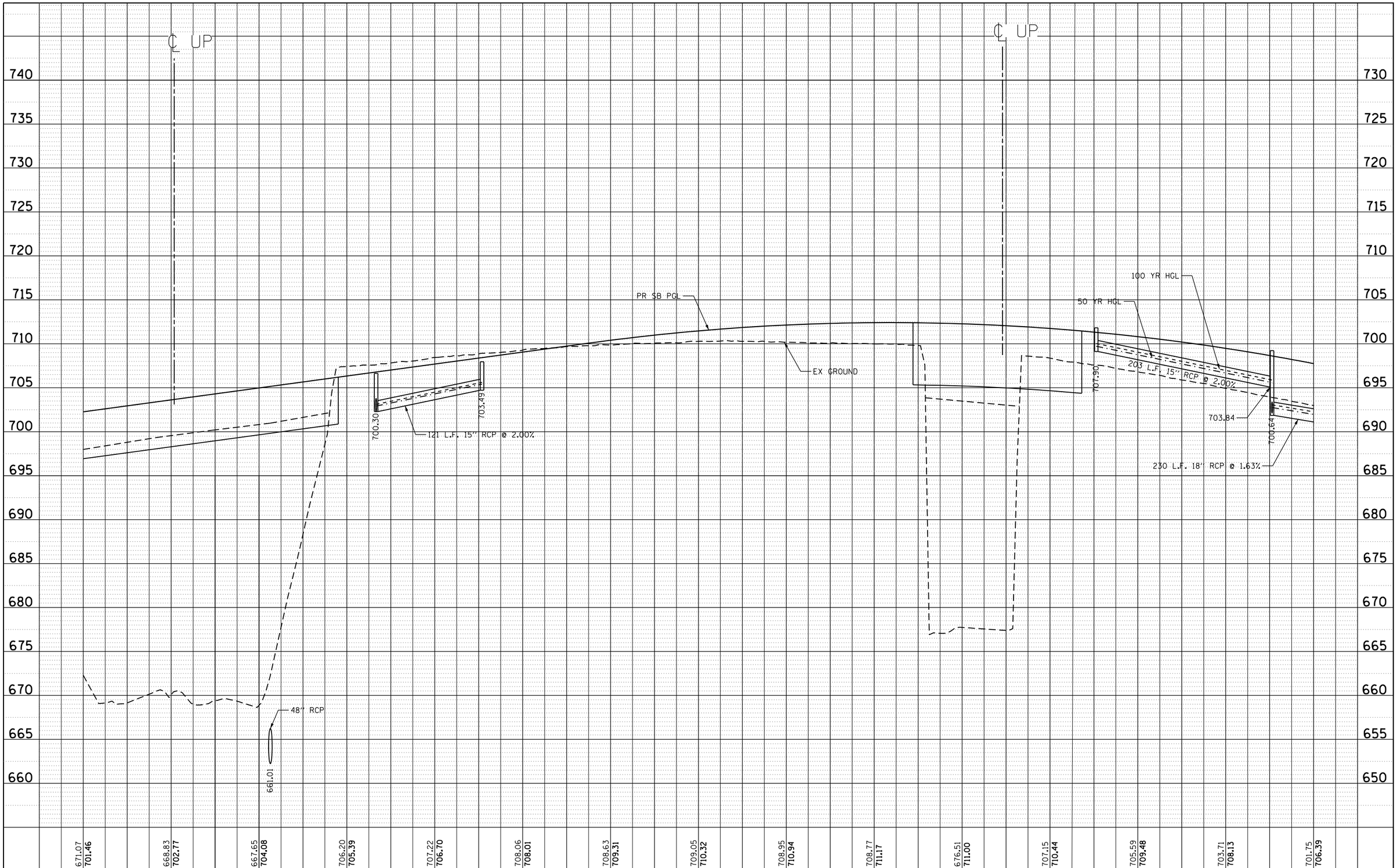
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-11
DRAWING NO. 112 OF 196



DRAWN BY	SJM	SCALE	1" = 50'
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REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-12
DRAWING NO. 113 OF 196

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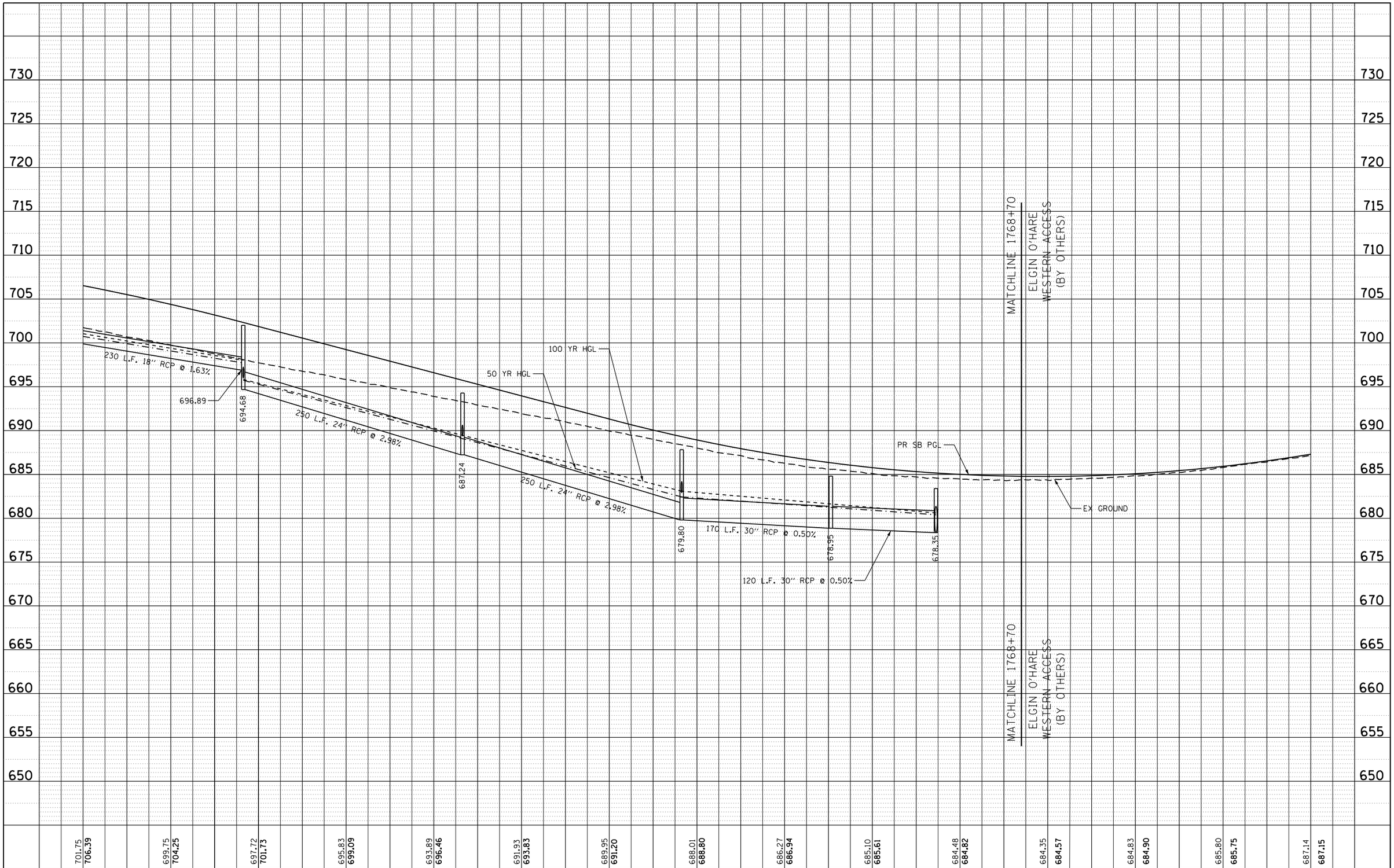

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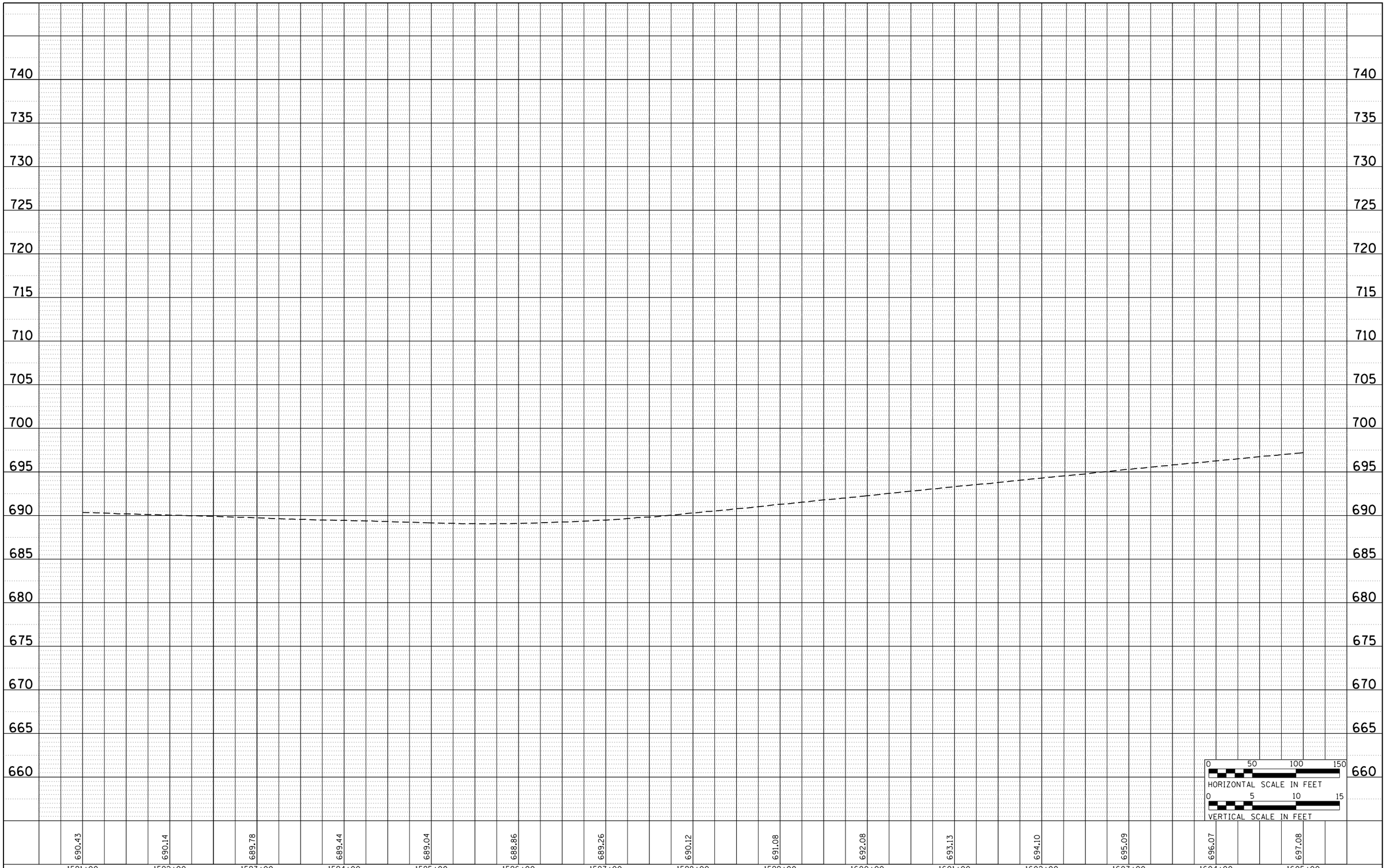
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE SB I-294

SHEET NO. DPR-13
DRAWING NO. 114 OF 196



DRAWN BY SJM SCALE 1" = 50'

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-14

DRAWING NO. 115 OF 196

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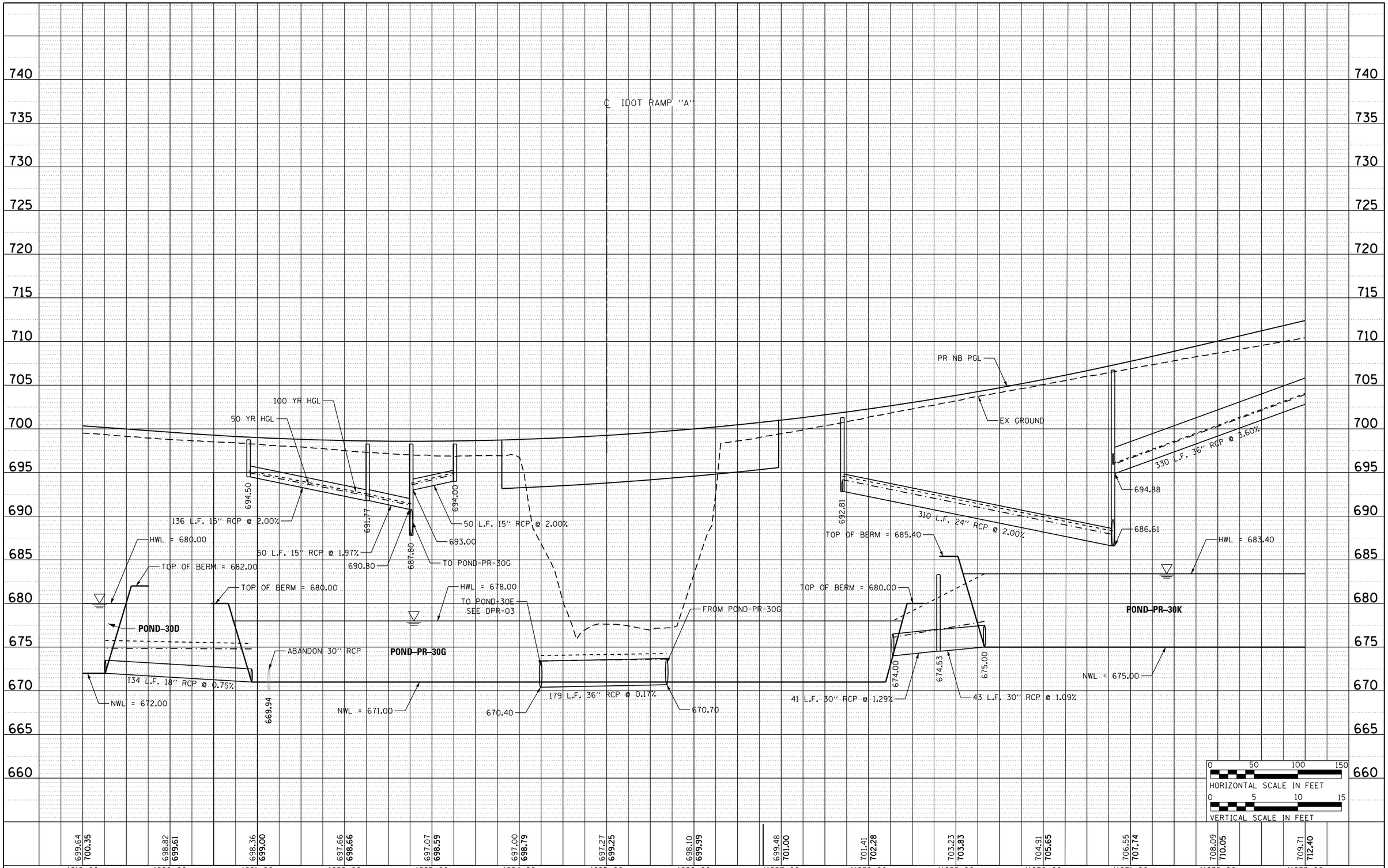
REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-15
DRAWING NO. 116 OF 196



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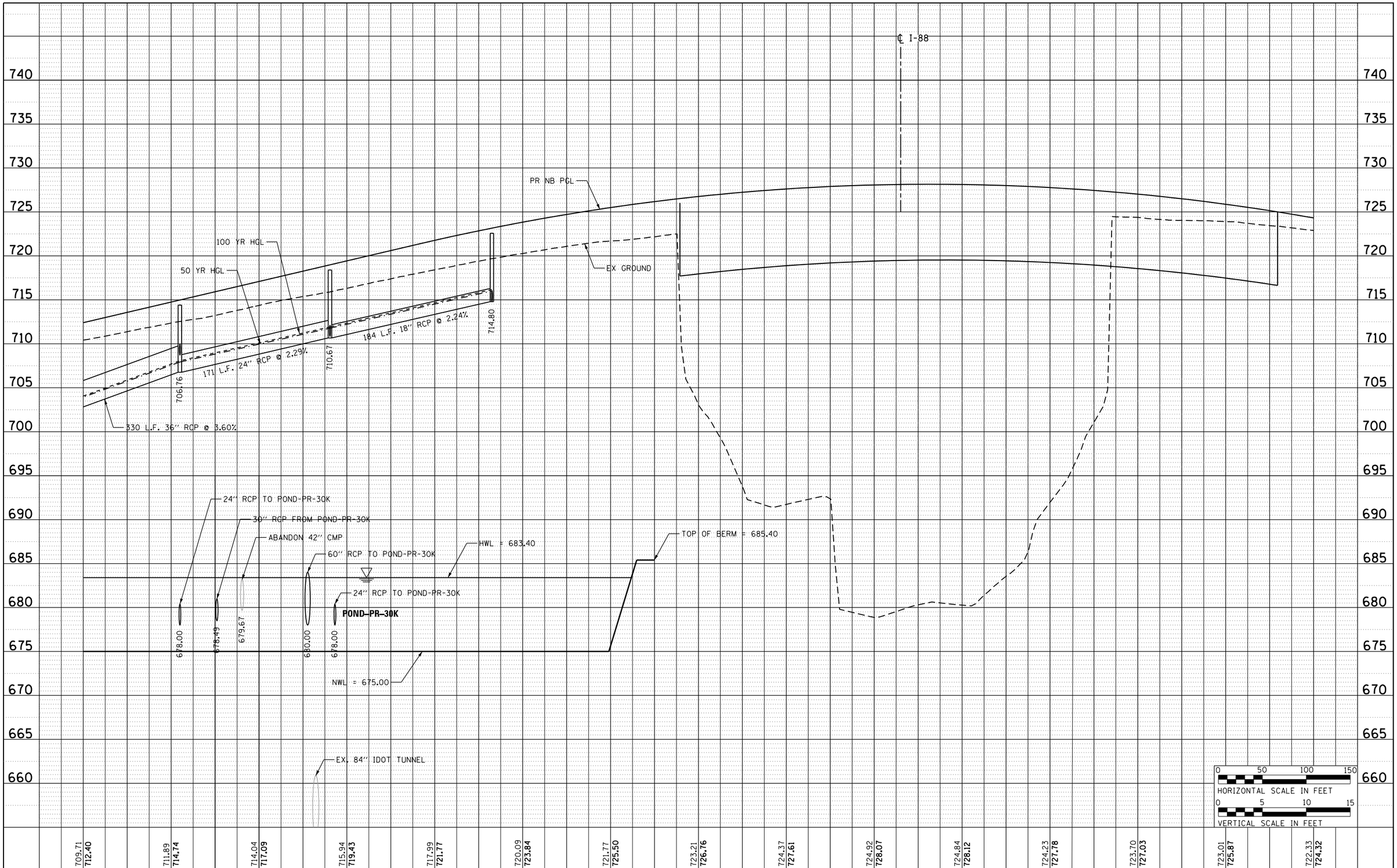
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-16
DRAWING NO. 117 OF 196



DRAWN BY	SJM	SCALE	1" = 50'
CHECKED BY	SN	DATE	12/22/2017

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Chicago, Illinois 60661
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-17
DRAWING NO. 118 OF 196

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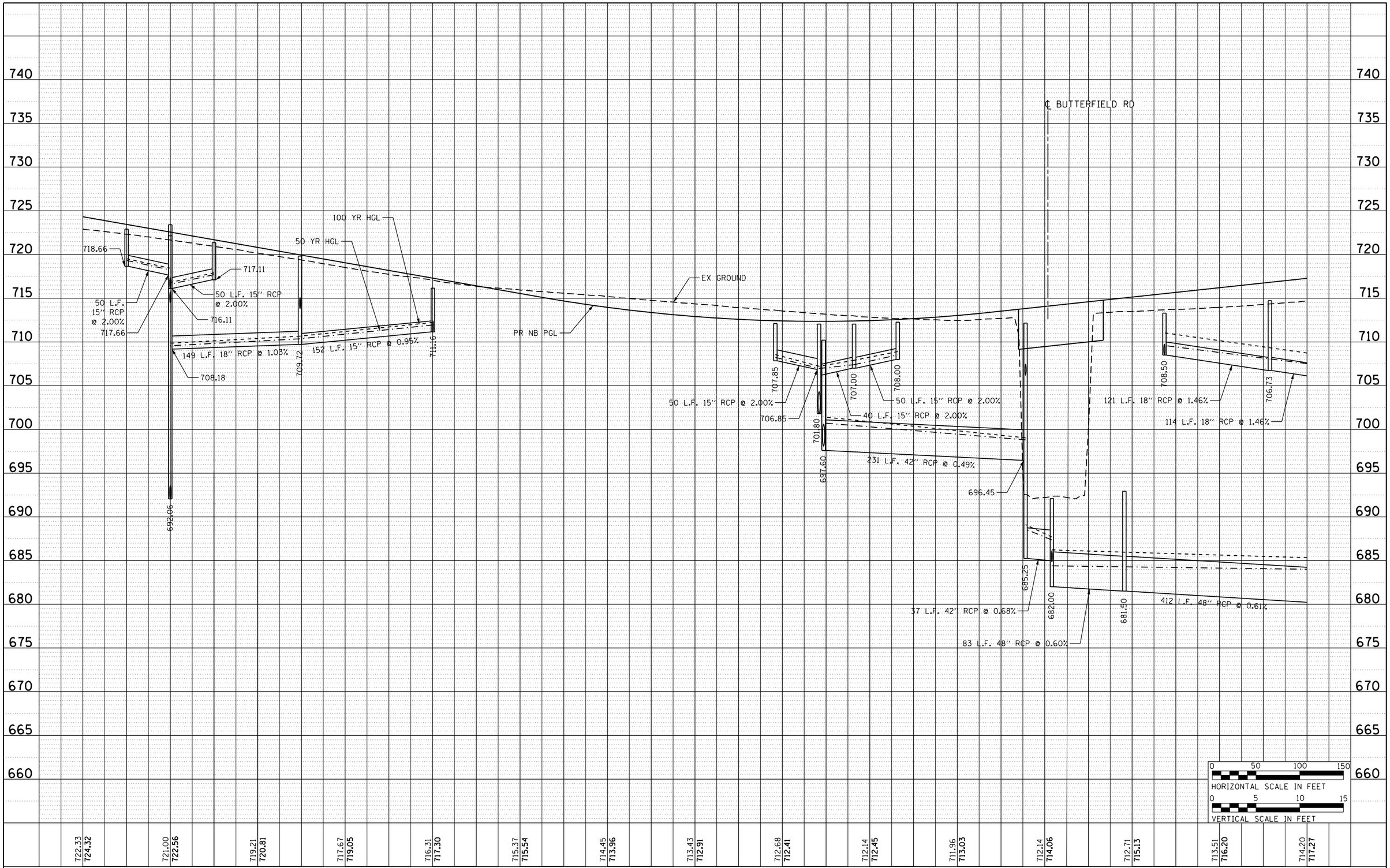

DRAWN BY	SJM	SCALE	1" = 50'
CHECKED BY	SN	DATE	12/22/2017

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Chicago, Illinois 60661
Telephone: 312.251.3000
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-18
DRAWING NO. 119 OF 196

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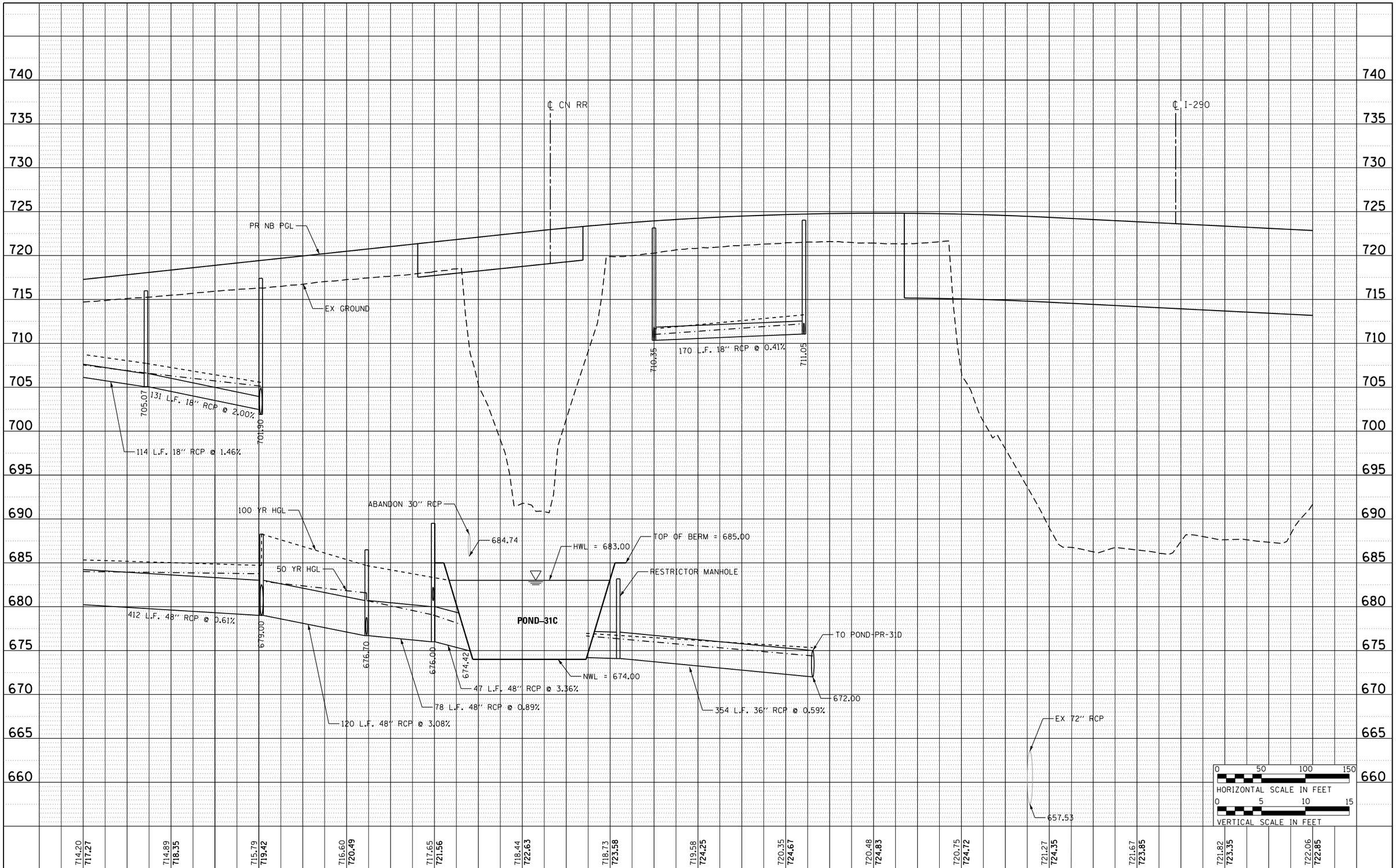

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DRAWN BY	SJM	SCALE	1" = 50'
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

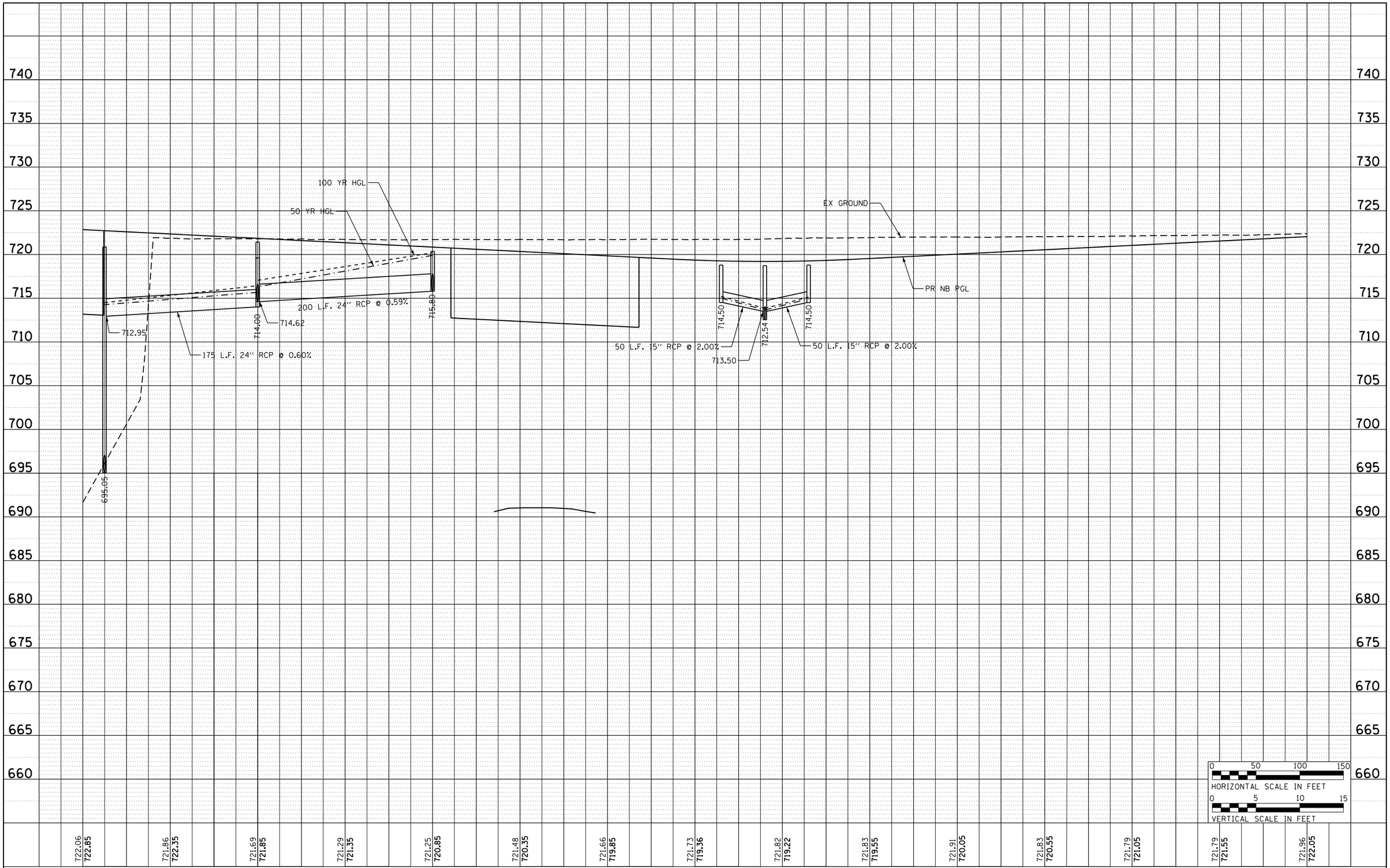
REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-19
DRAWING NO. 120 OF 196



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DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
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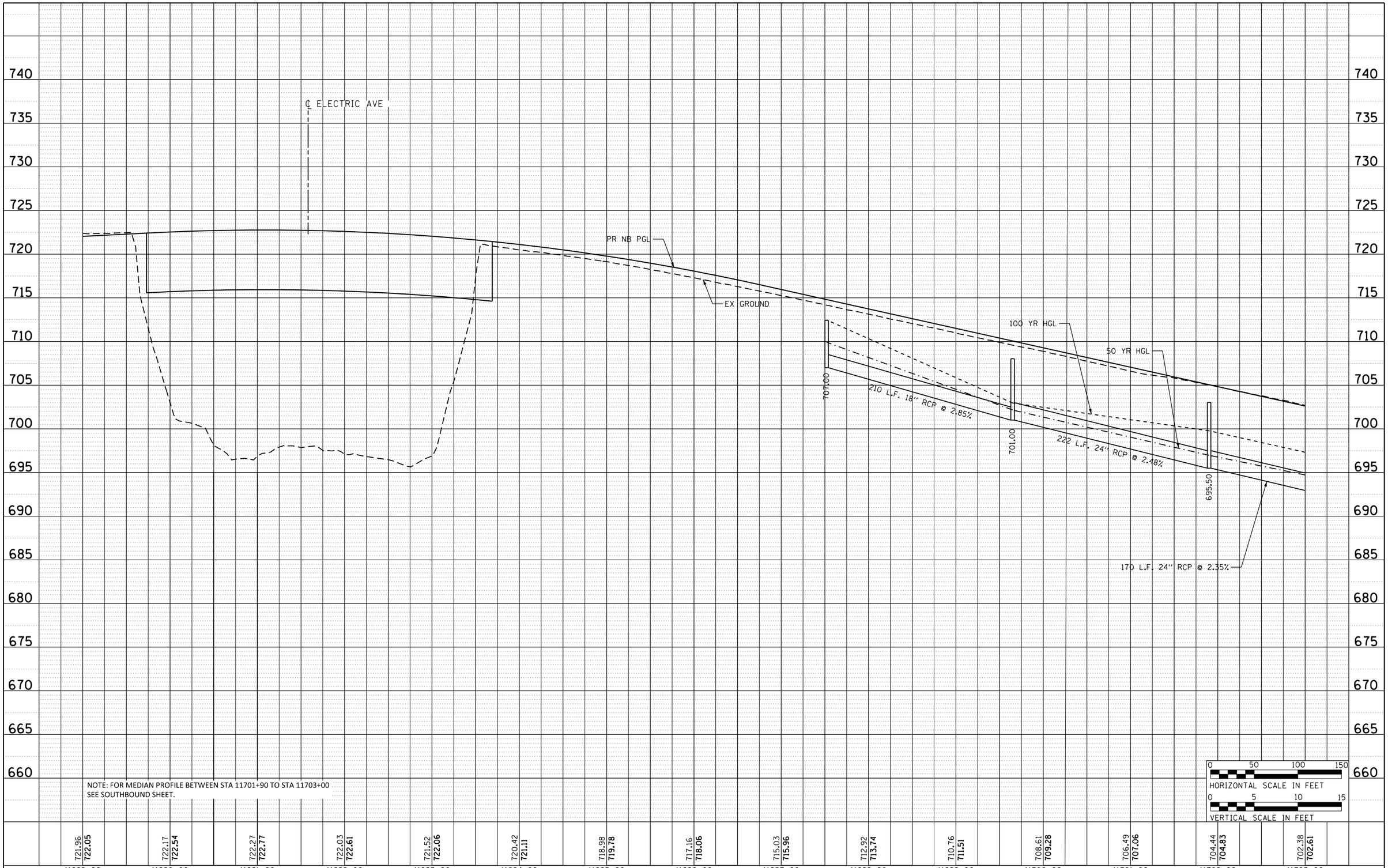
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-20
DRAWING NO. 121 OF 196



NOTE: FOR MEDIAN PROFILE BETWEEN STA 11701+90 TO STA 11703+00
SEE SOUTHBOUND SHEET.

DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
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REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-21
DRAWING NO. 122 OF 196

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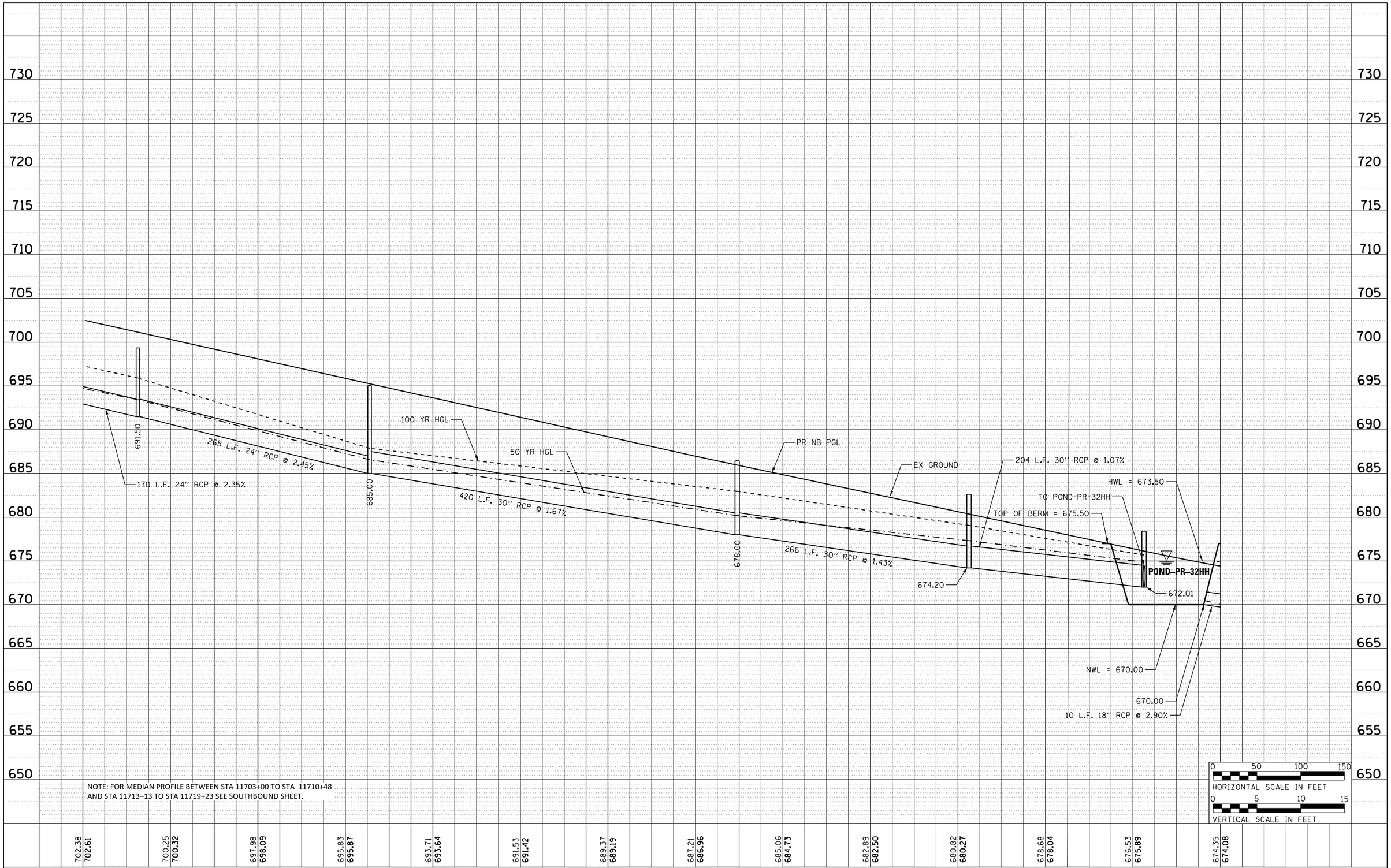

NOTE: FOR MEDIAN PROFILE BETWEEN STA 11703+00 TO STA 11710+48
AND STA 11713+13 TO STA 11719+23 SEE SOUTHBOUND SHEET.

DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-22
DRAWING NO. 123 OF 196

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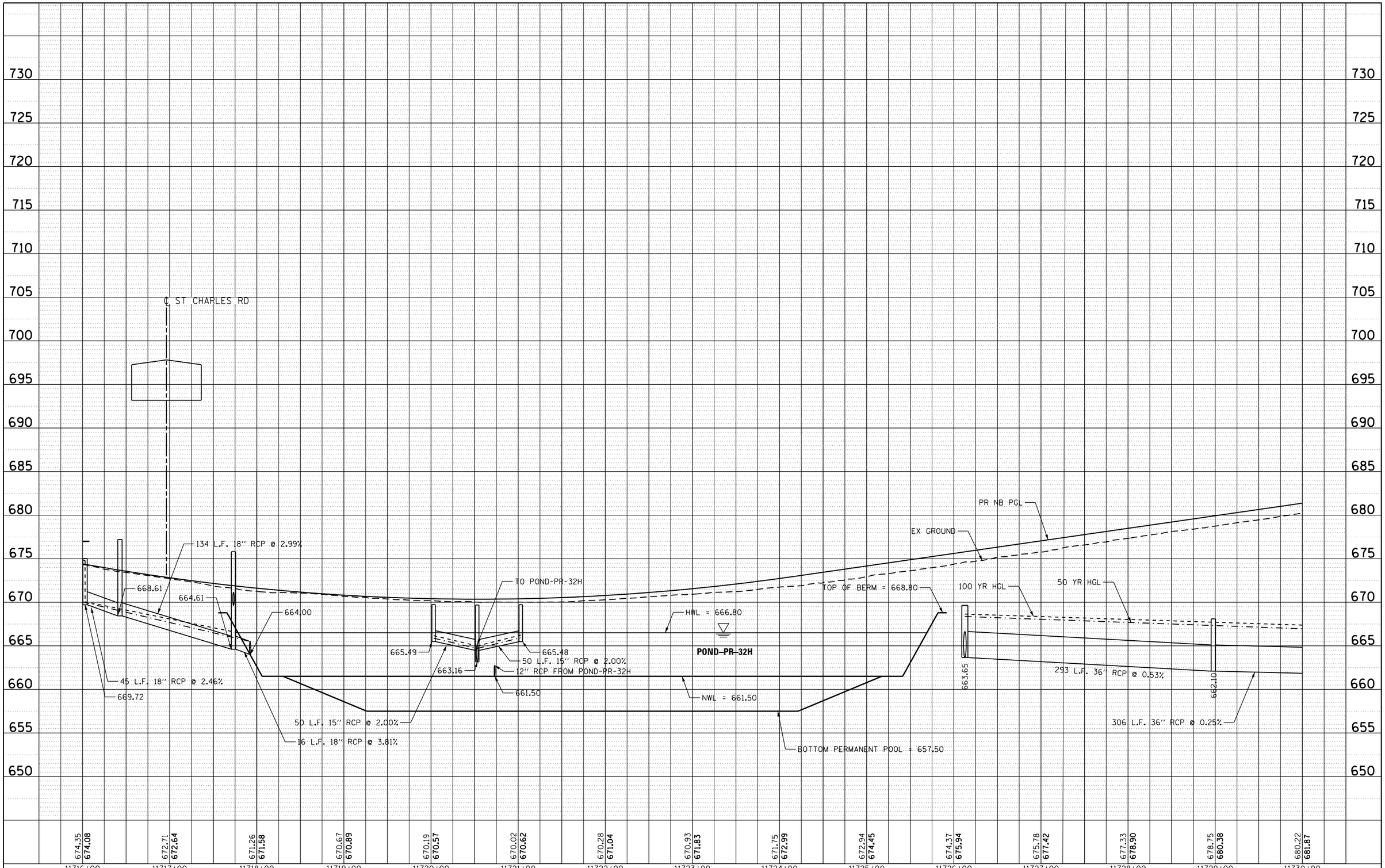

DRAWN BY	SJM	SCALE	1" = 50'
CHECKED BY	SN	DATE	12/22/2017

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-23
DRAWING NO. 124 OF 196

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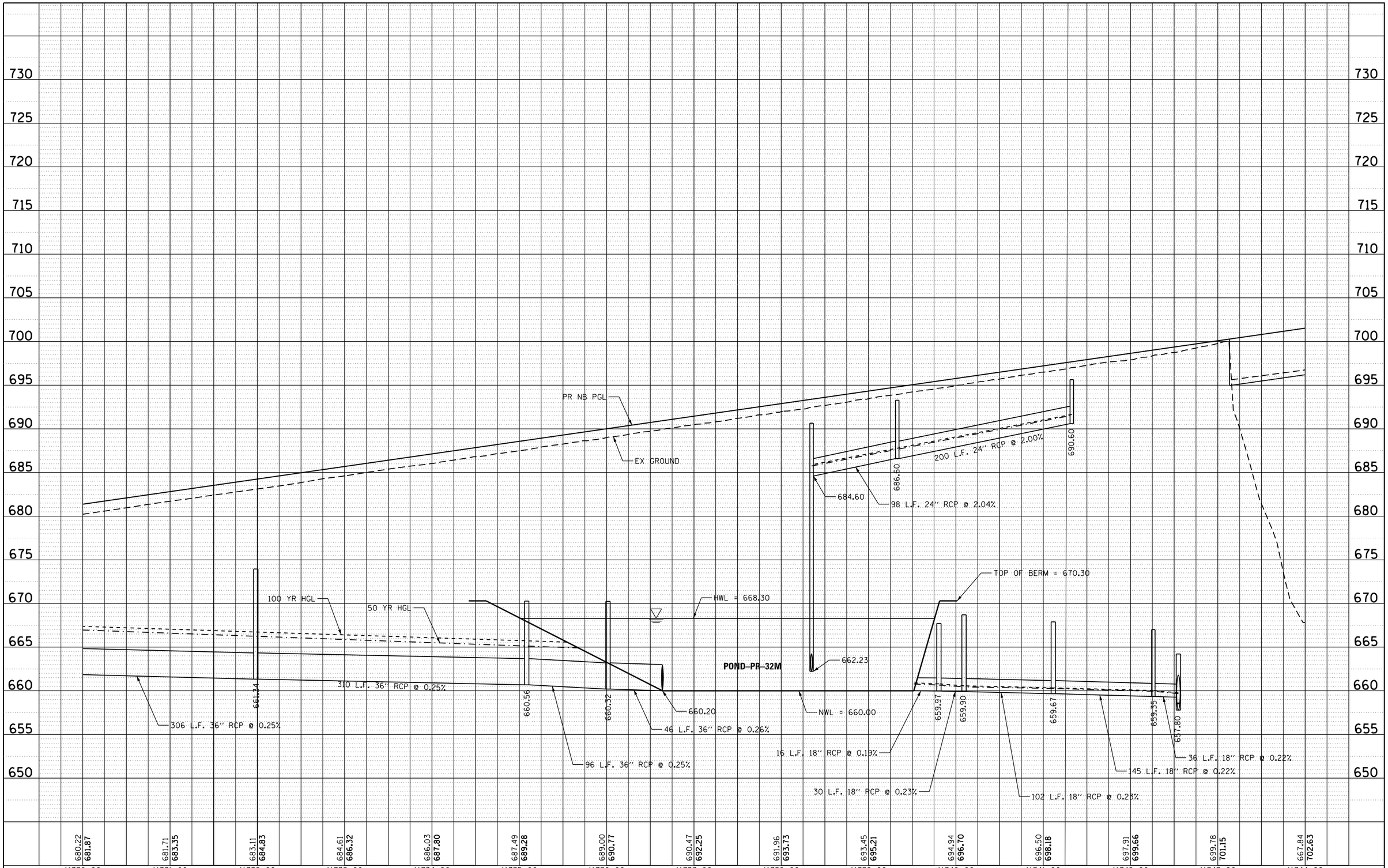

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-24
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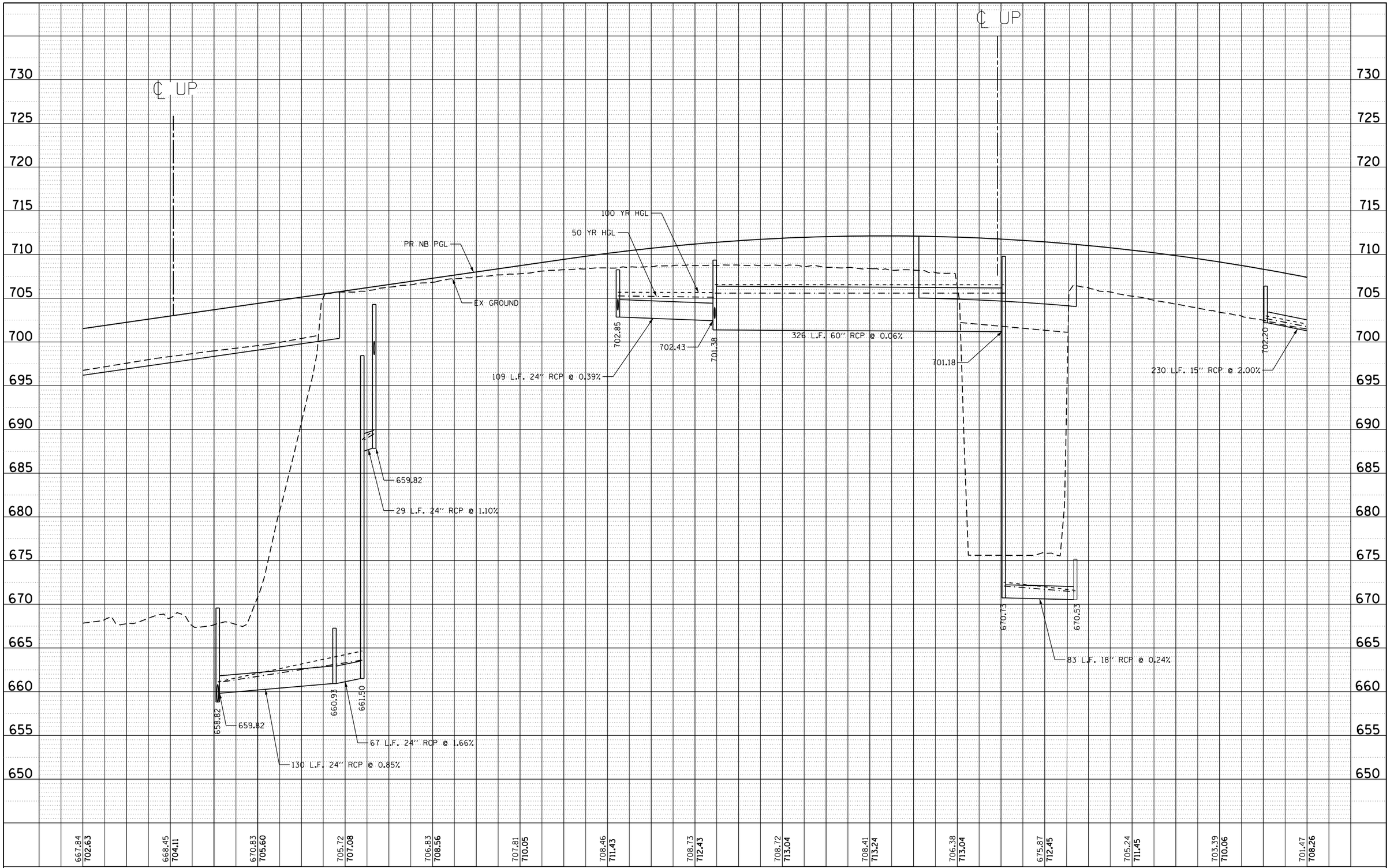

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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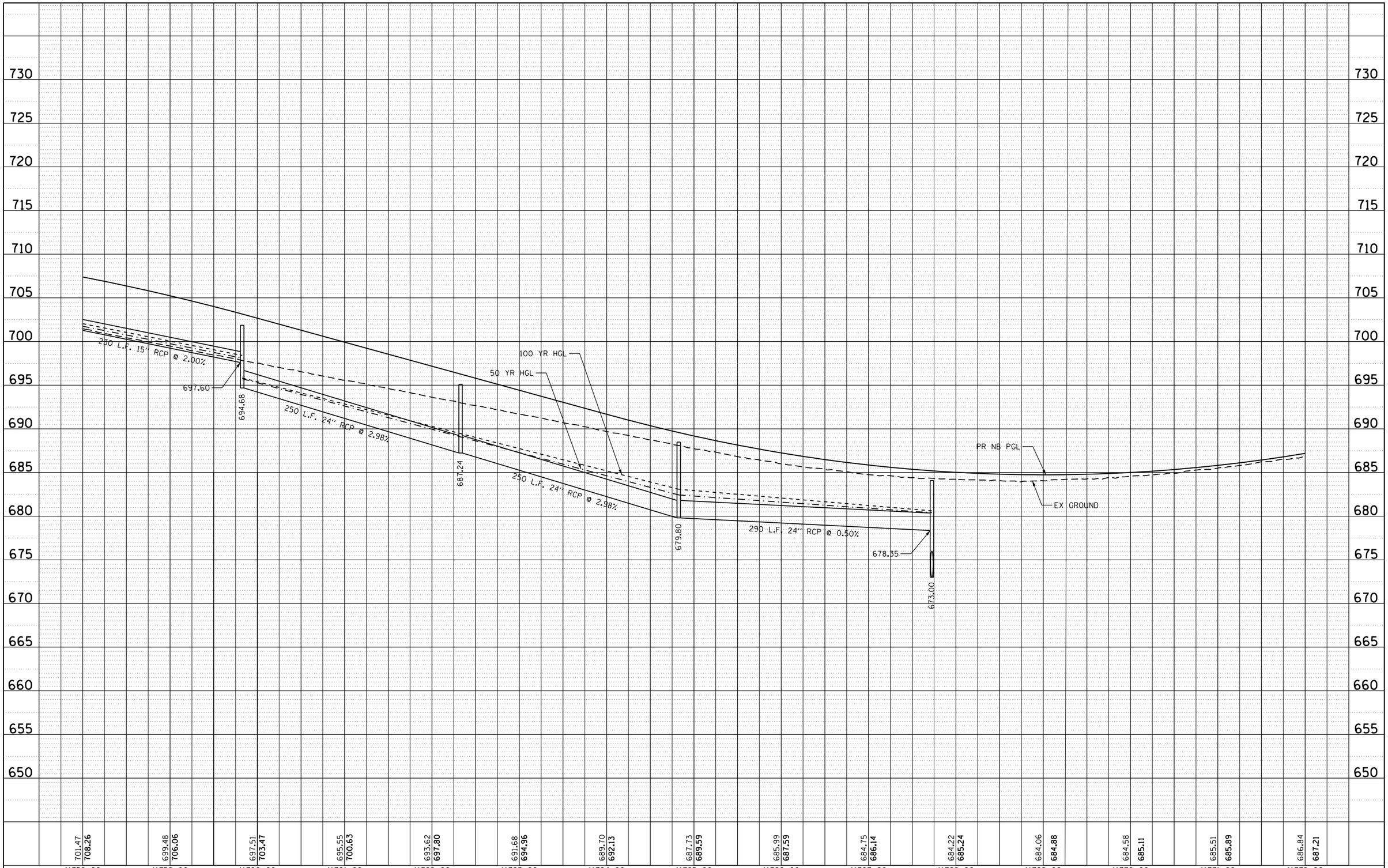
EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-25
DRAWING NO. 126 OF 196



DRAWN BY SJM	SCALE 1" = 50'	JACOBS	525 W. Monroe Suite 1600 Chicago, Illinois 60661 Telephone: 312.251.3000 Fax: 312.251.3015
CHECKED BY SN	DATE 12/22/2017		

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB I-294

SHEET NO. DPR-26
DRAWING NO. 127 OF 196

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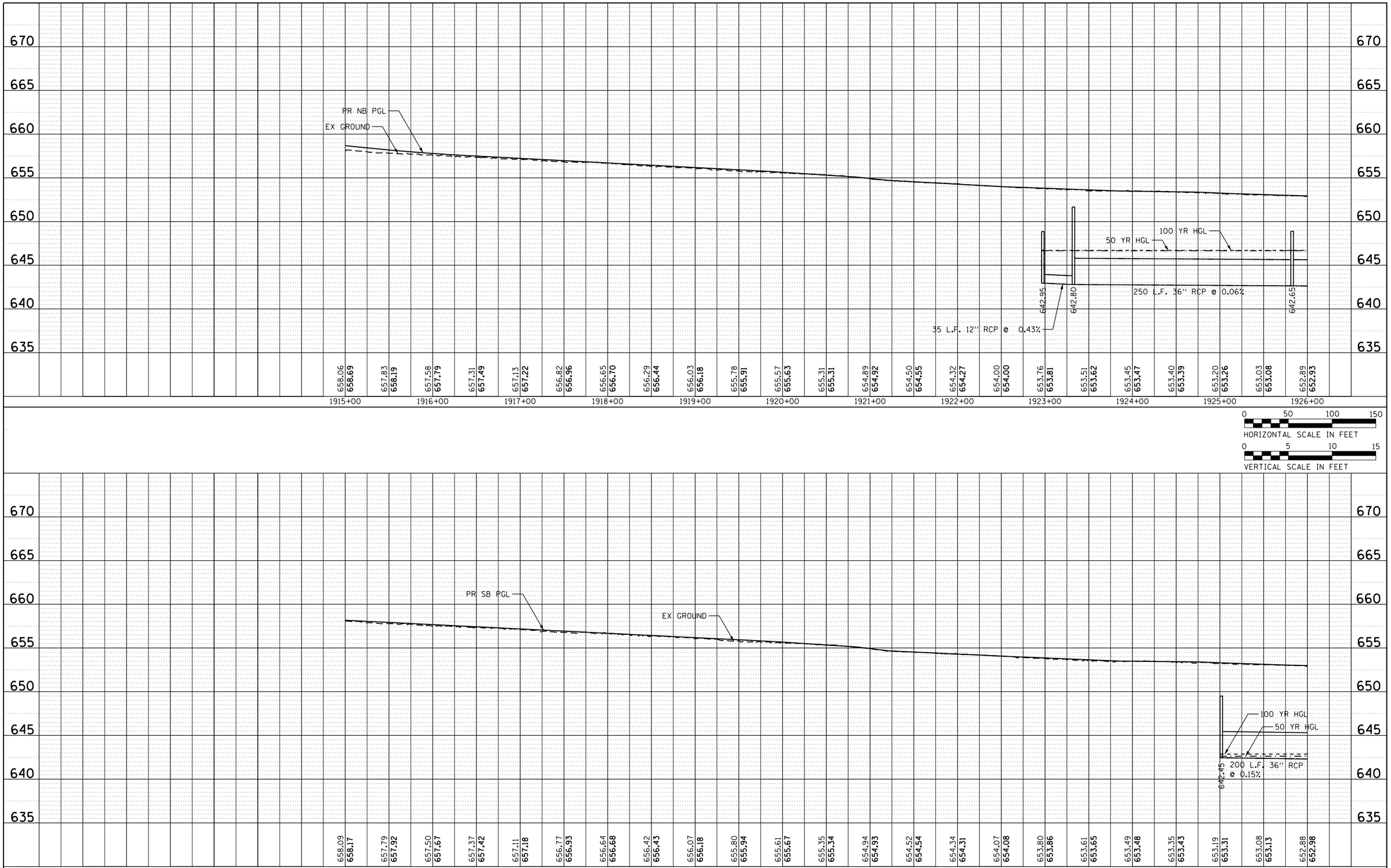

DRAWN BY RLA	SCALE 1" = 50'	HANSON	750 Warrenville Rd. Suite 200 Lisle, Illinois 60532 Telephone: 630.990.3800 Fax: 630.990.3801
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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-27
DRAWING NO. 128 OF 196

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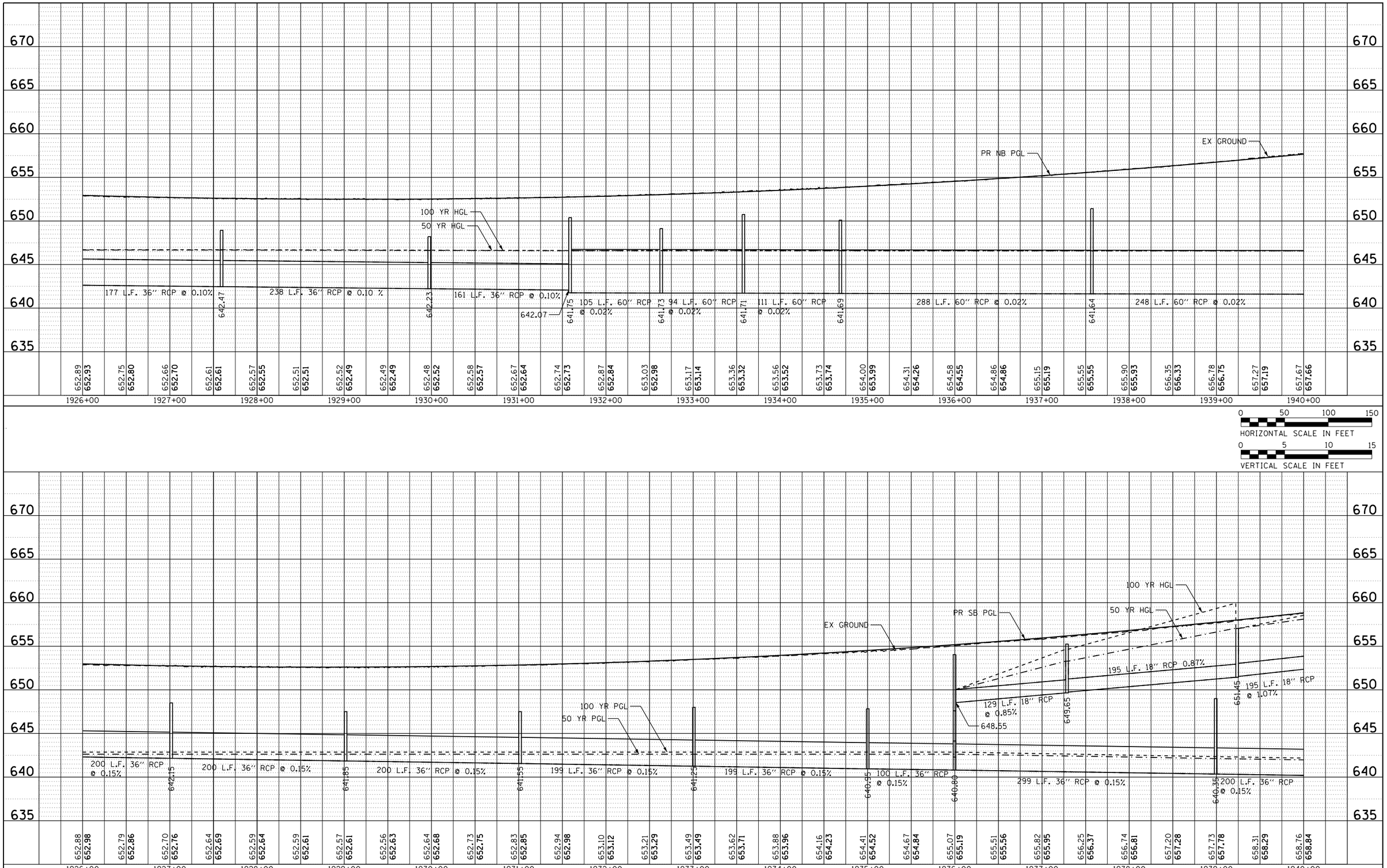

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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-28
DRAWING NO. 129 OF 196

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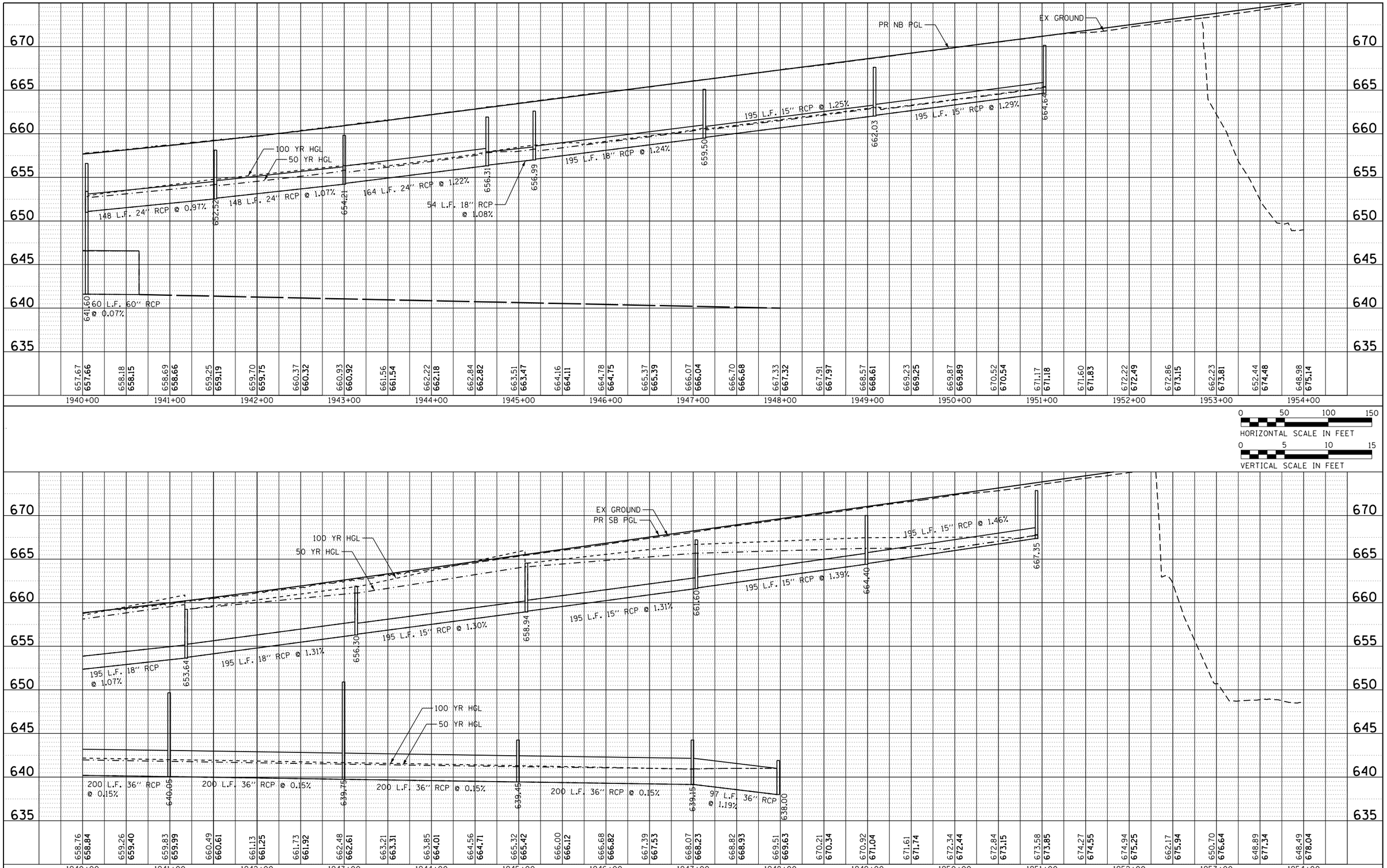

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REVISIONS

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-29
DRAWING NO. 130 OF 196

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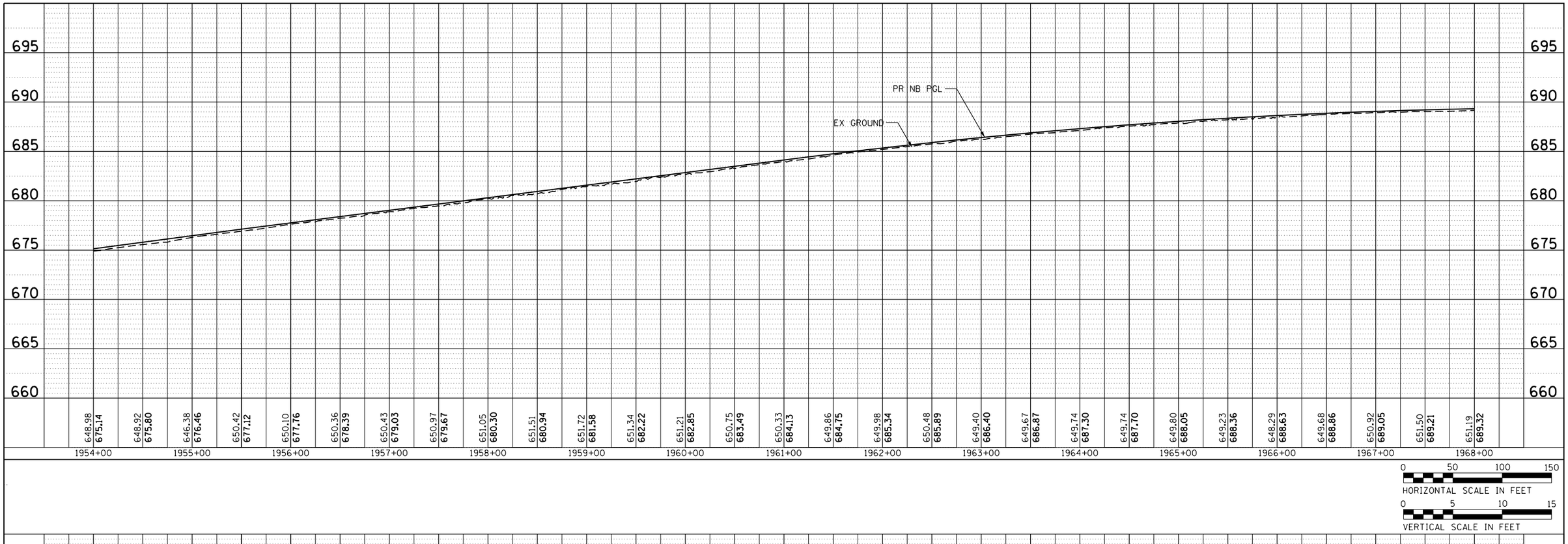

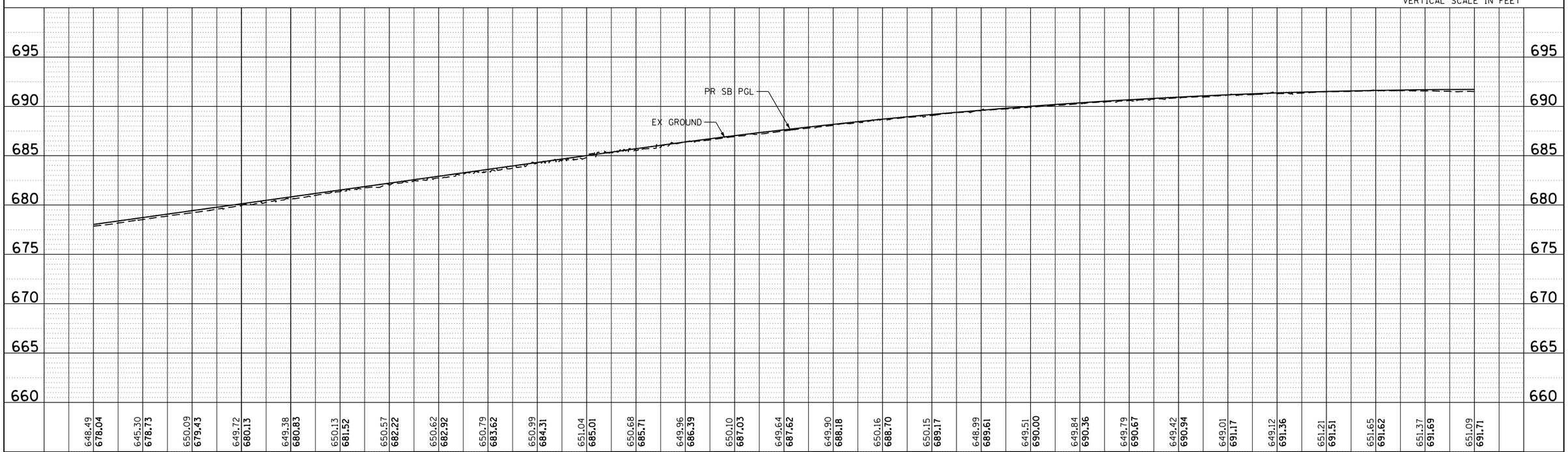

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-30
DRAWING NO. 131 OF 196

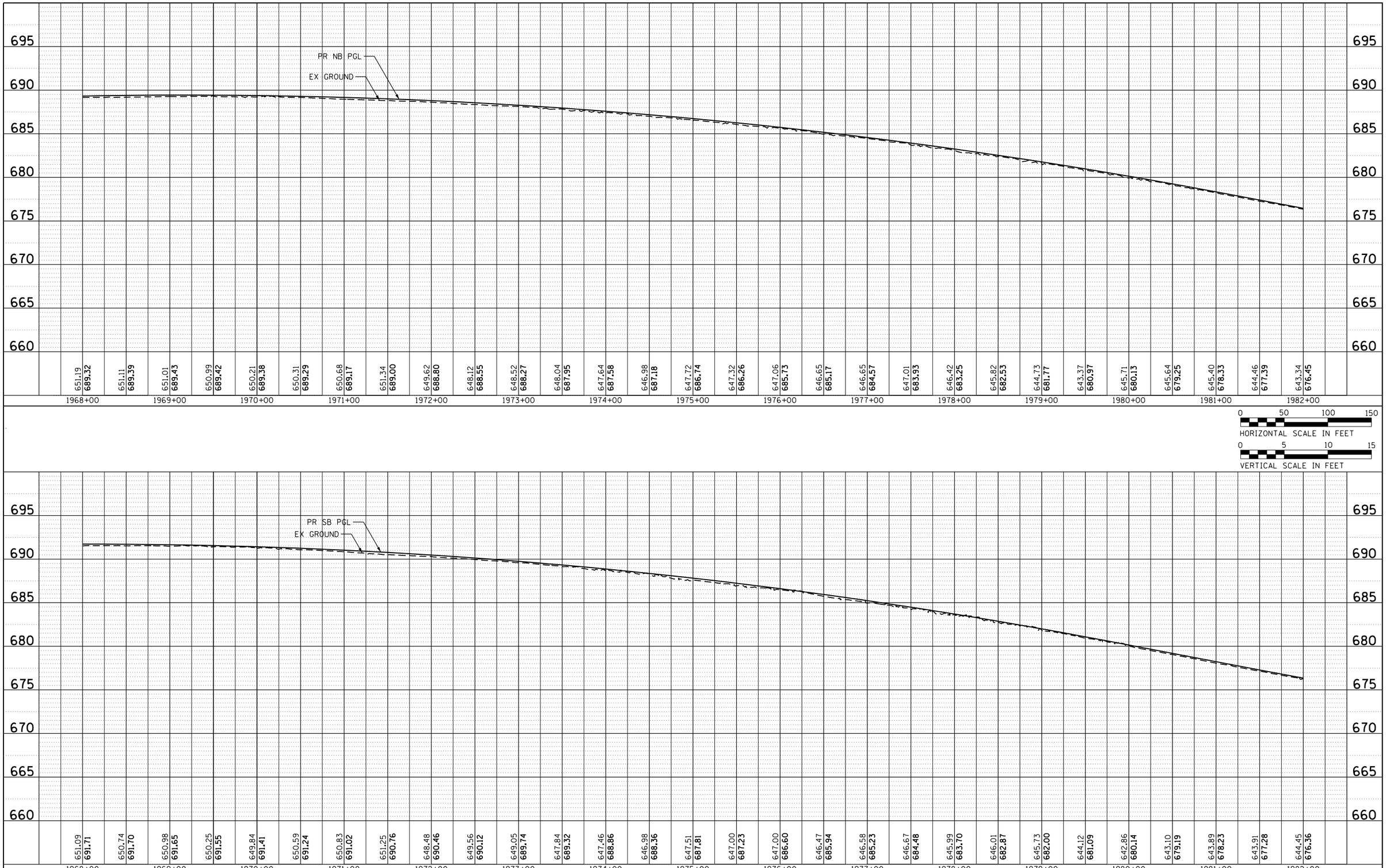

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-31
DRAWING NO. 132 OF 196

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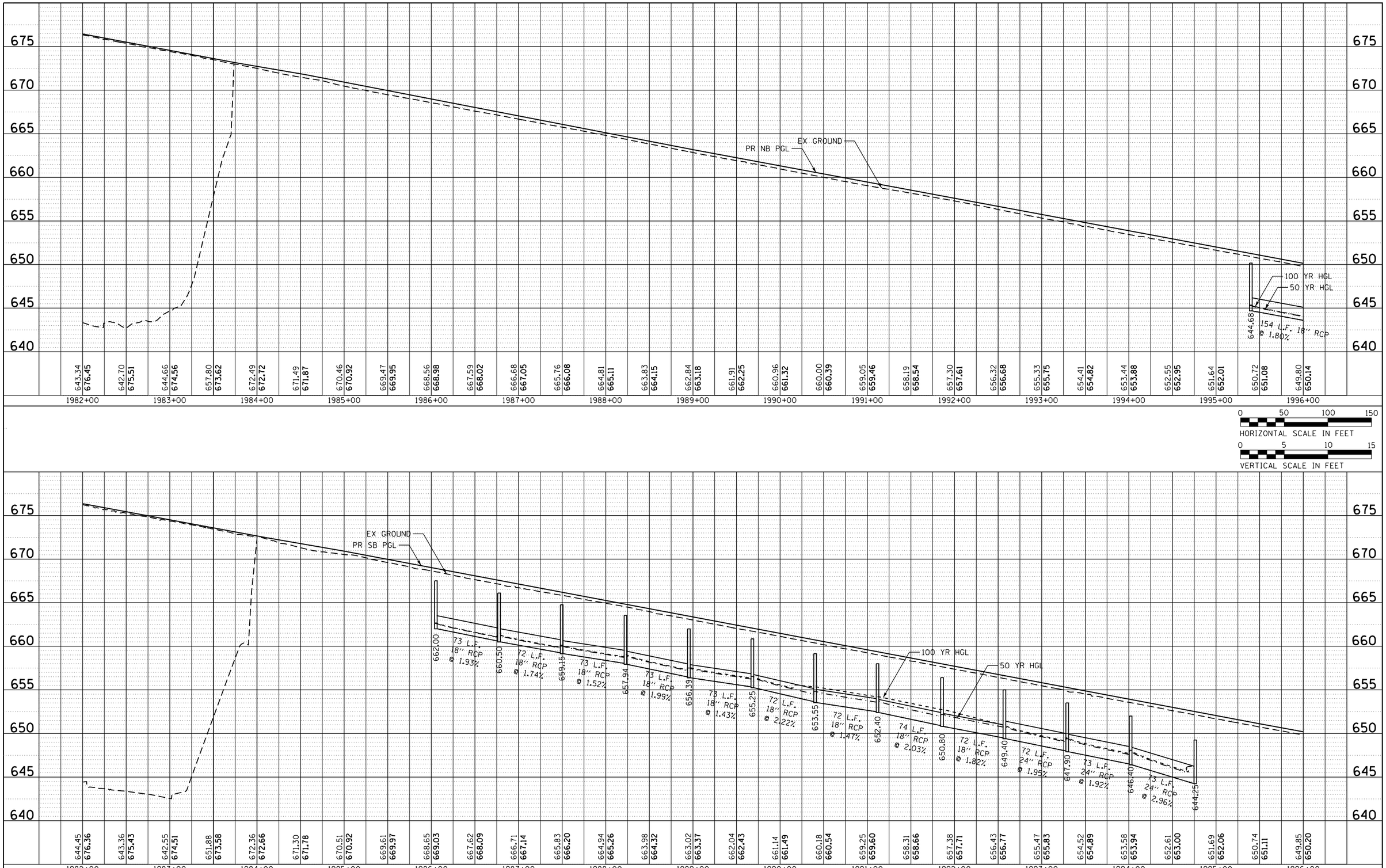

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NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-32
DRAWING NO. 133 OF 196

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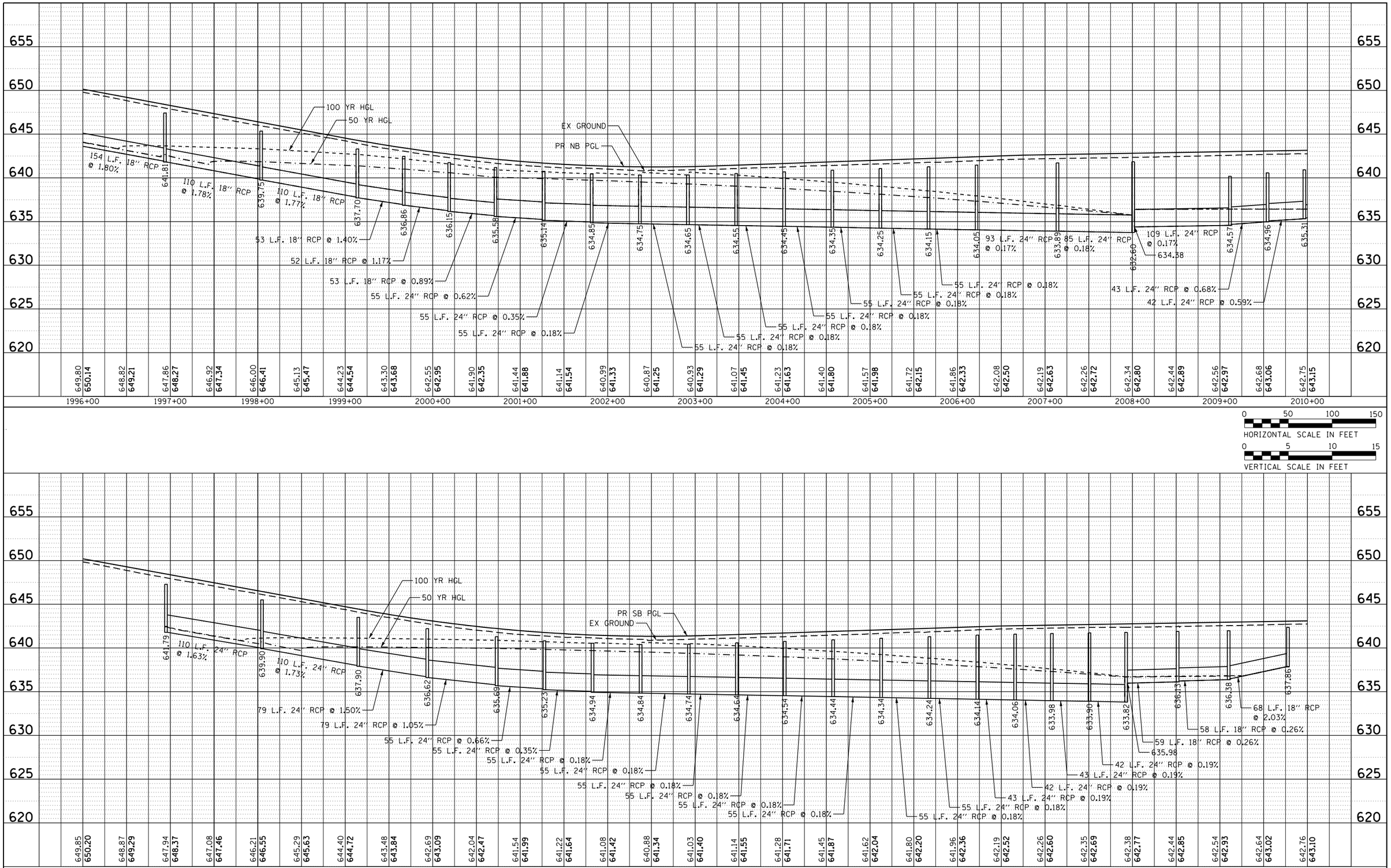

DRAWN BY	RLA	SCALE	1" = 50'
CHECKED BY	JJW	DATE	12/22/2017

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-33
DRAWING NO. 134 OF 196

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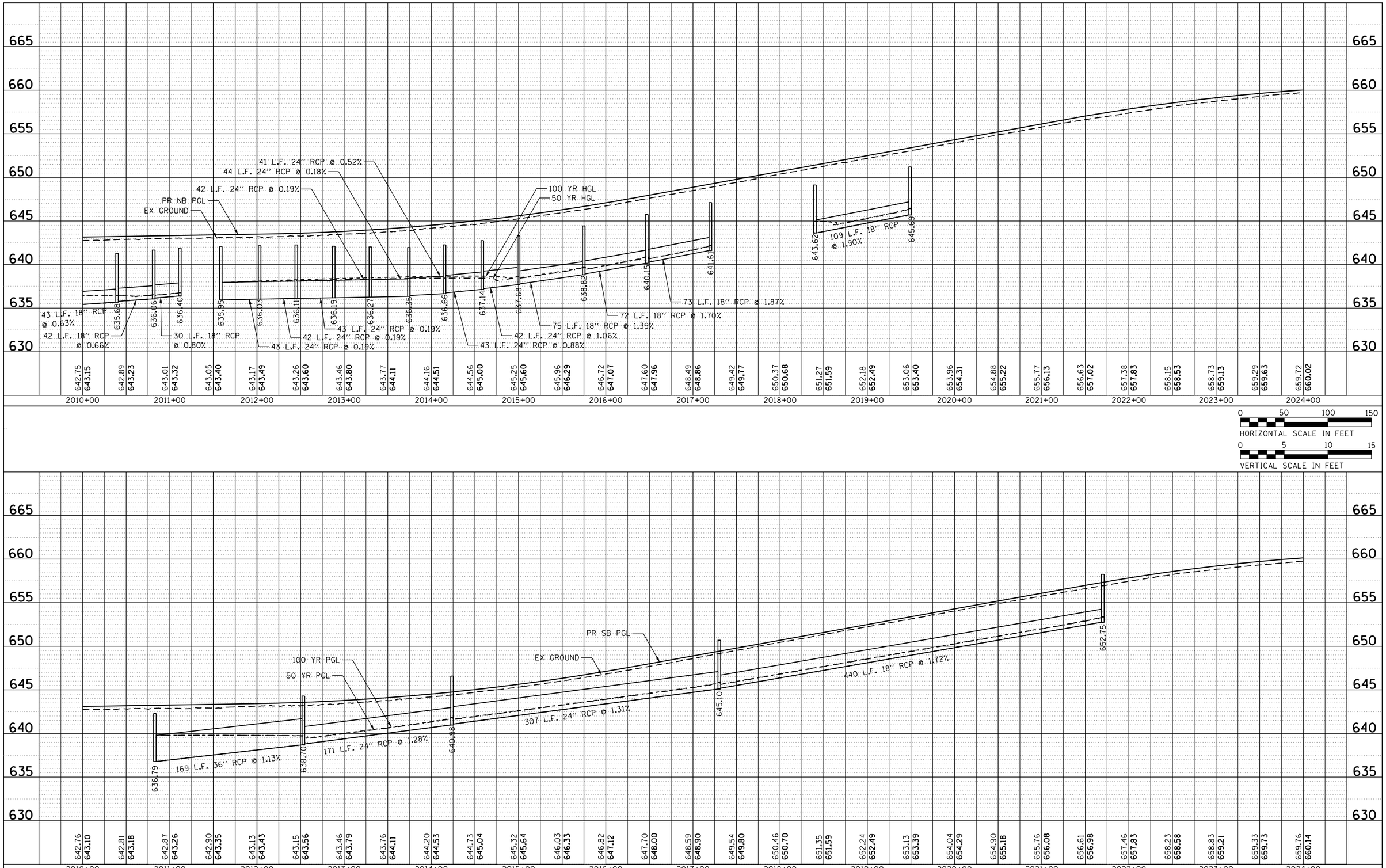

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-34
DRAWING NO. 135 OF 196

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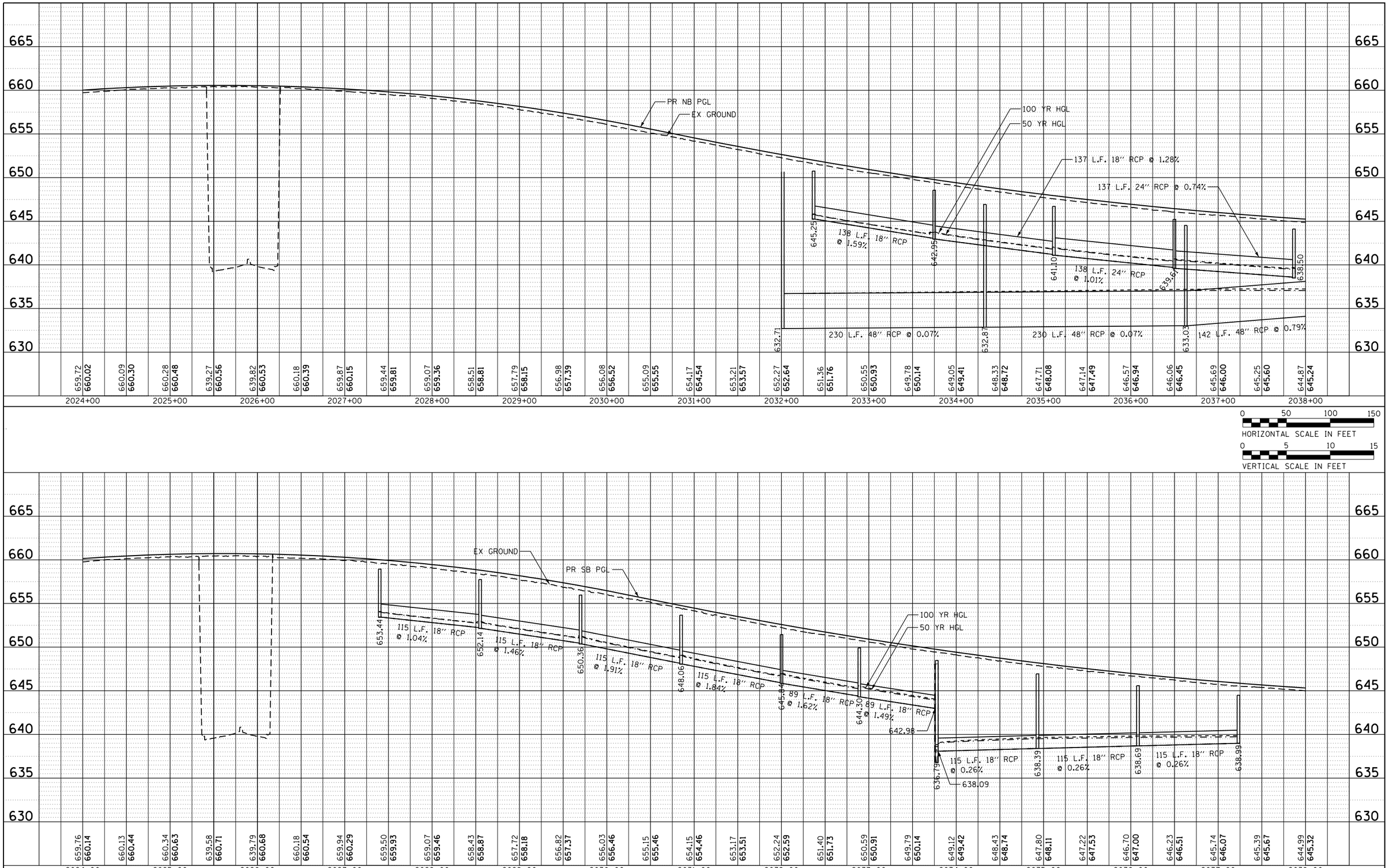

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-35
DRAWING NO. 136 OF 196

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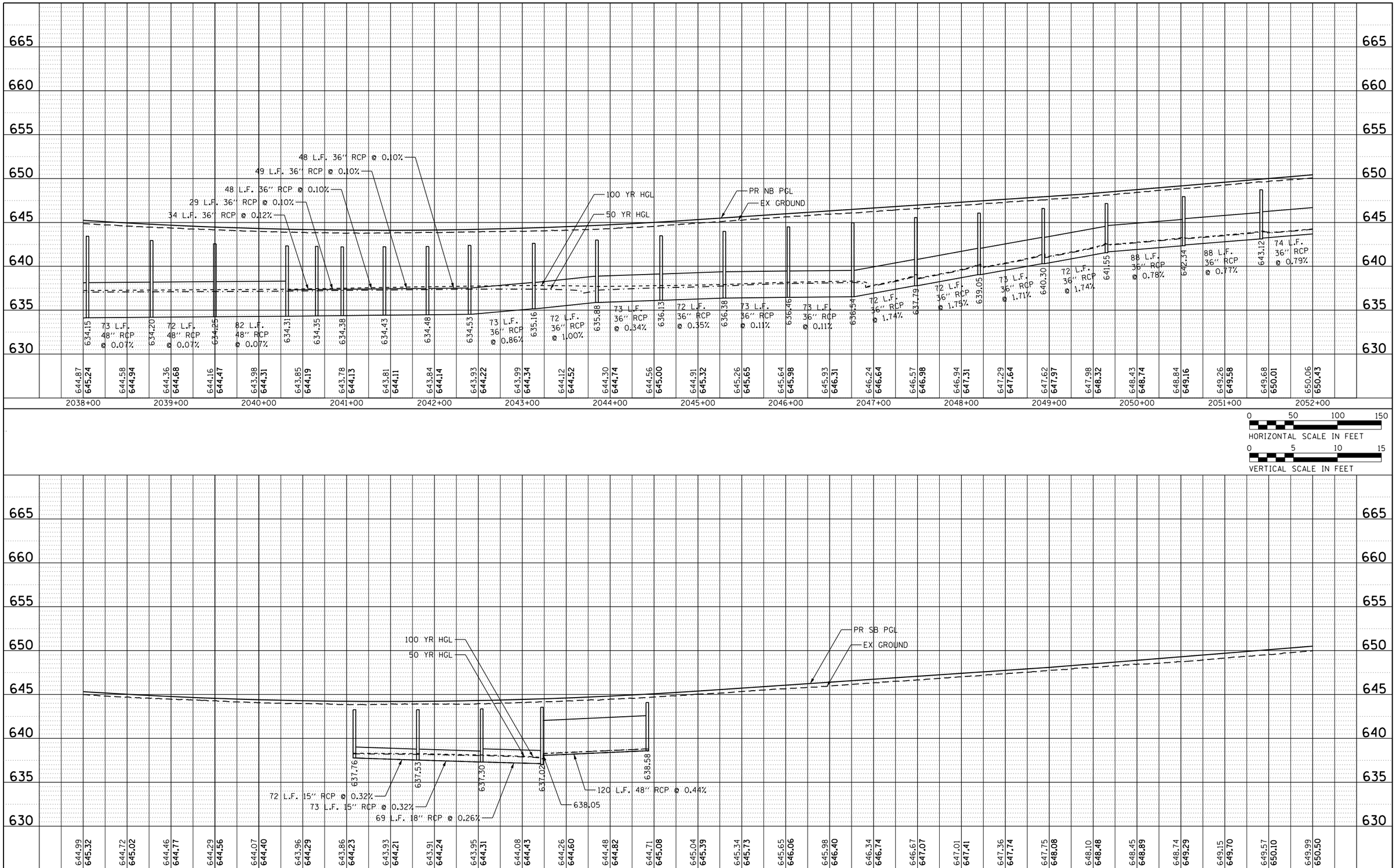

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-36
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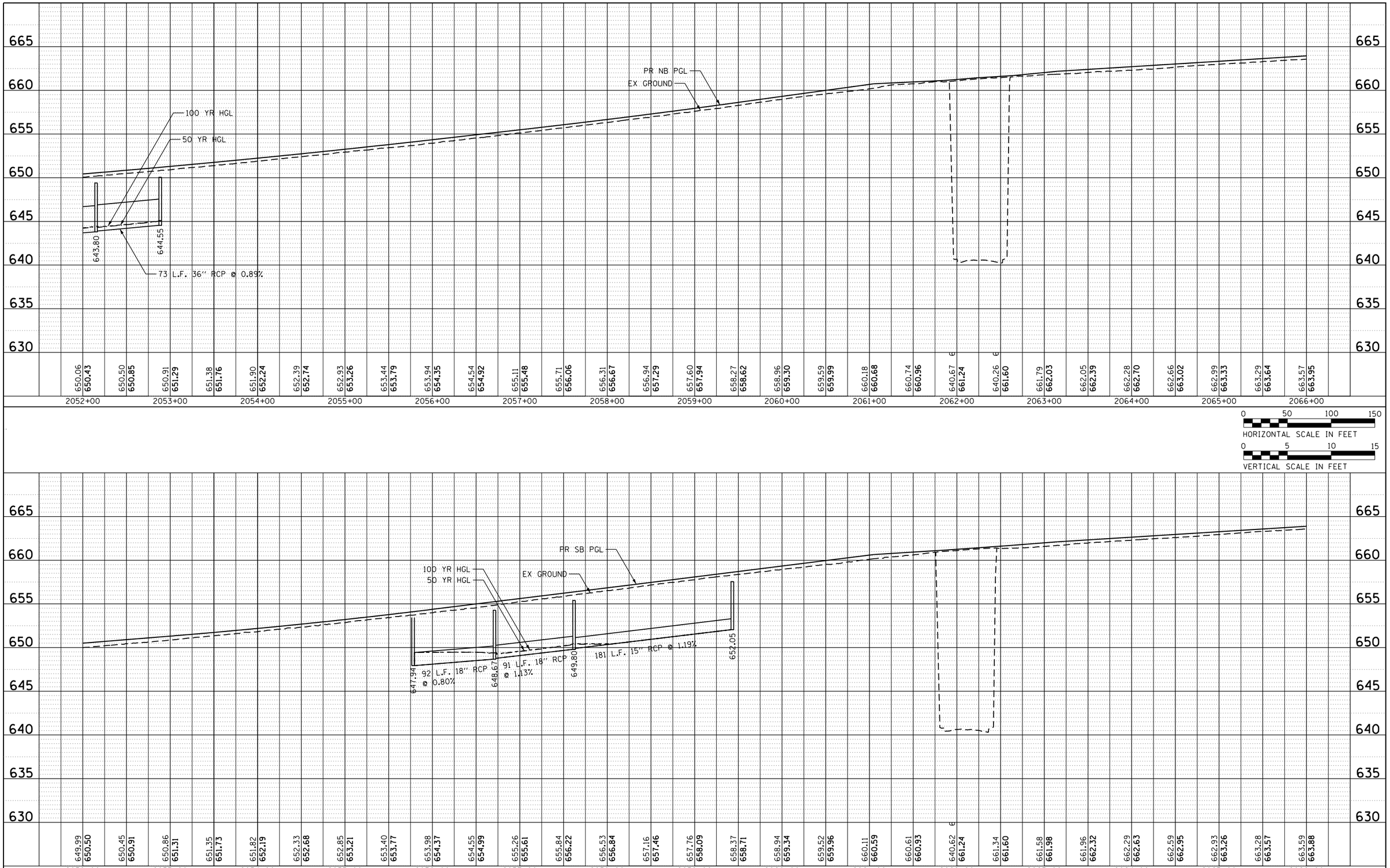

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-37
DRAWING NO. 138 OF 196

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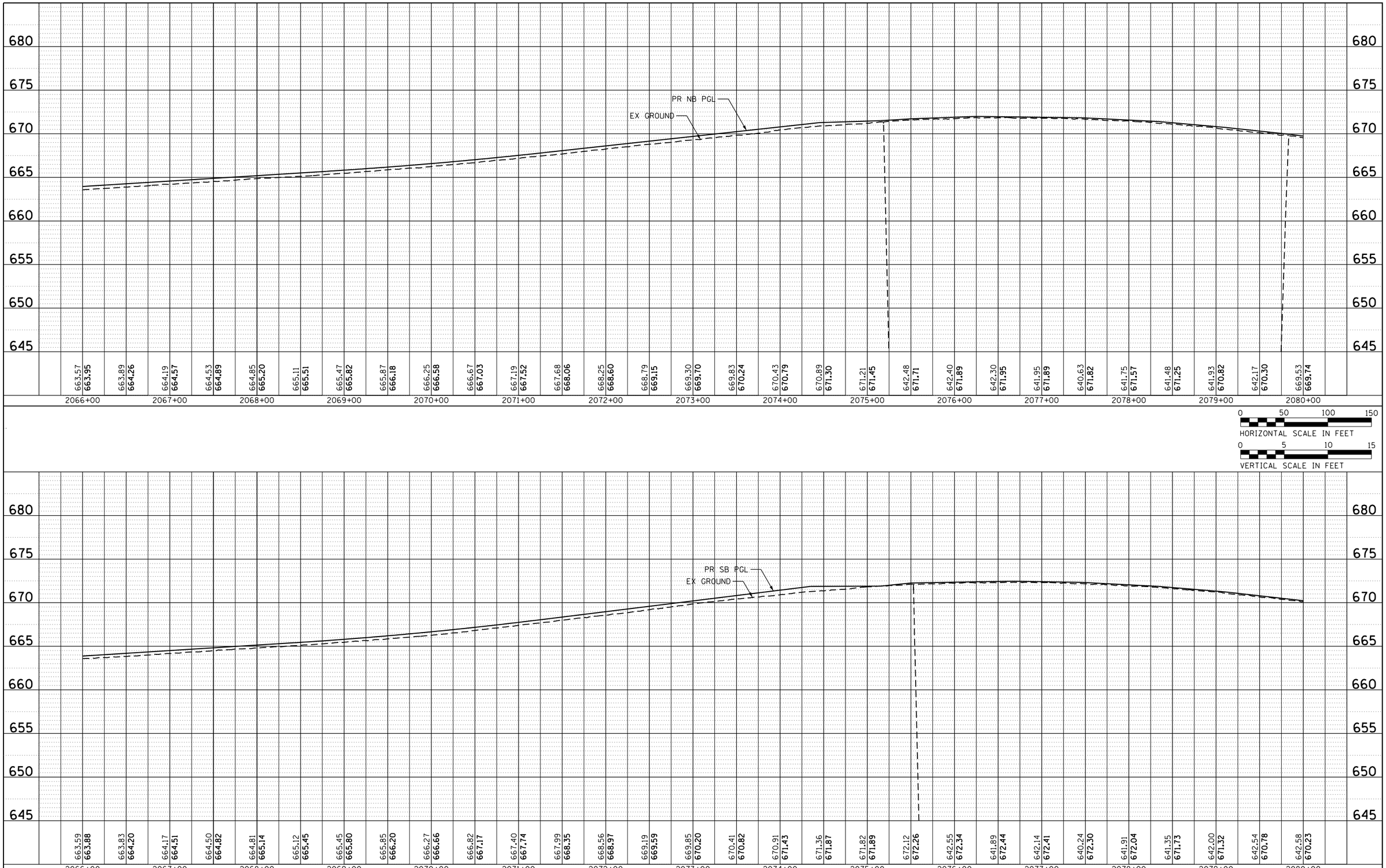

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NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-38
DRAWING NO. 139 OF 196

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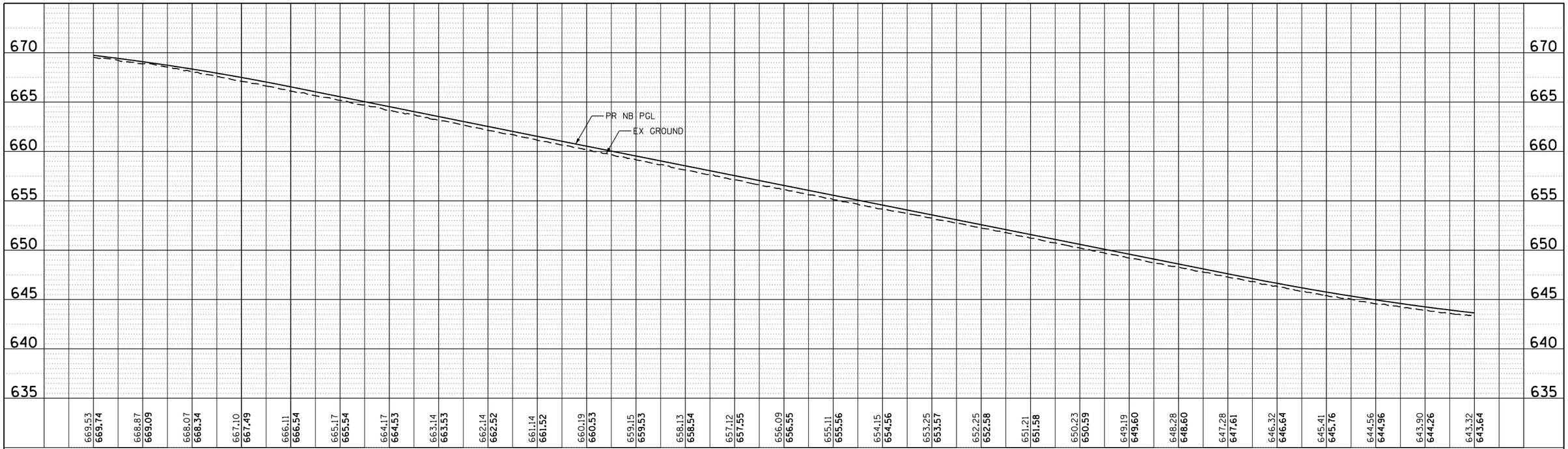

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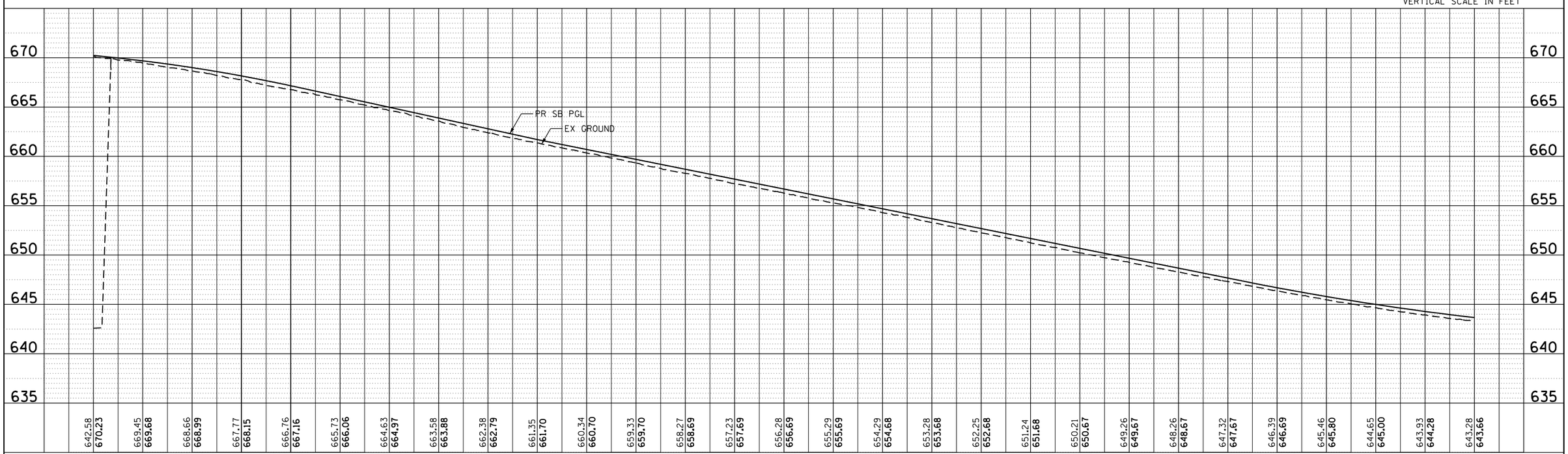
0 5 10 15
VERTICAL SCALE IN FEET



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NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-39
DRAWING NO. 140 OF 196

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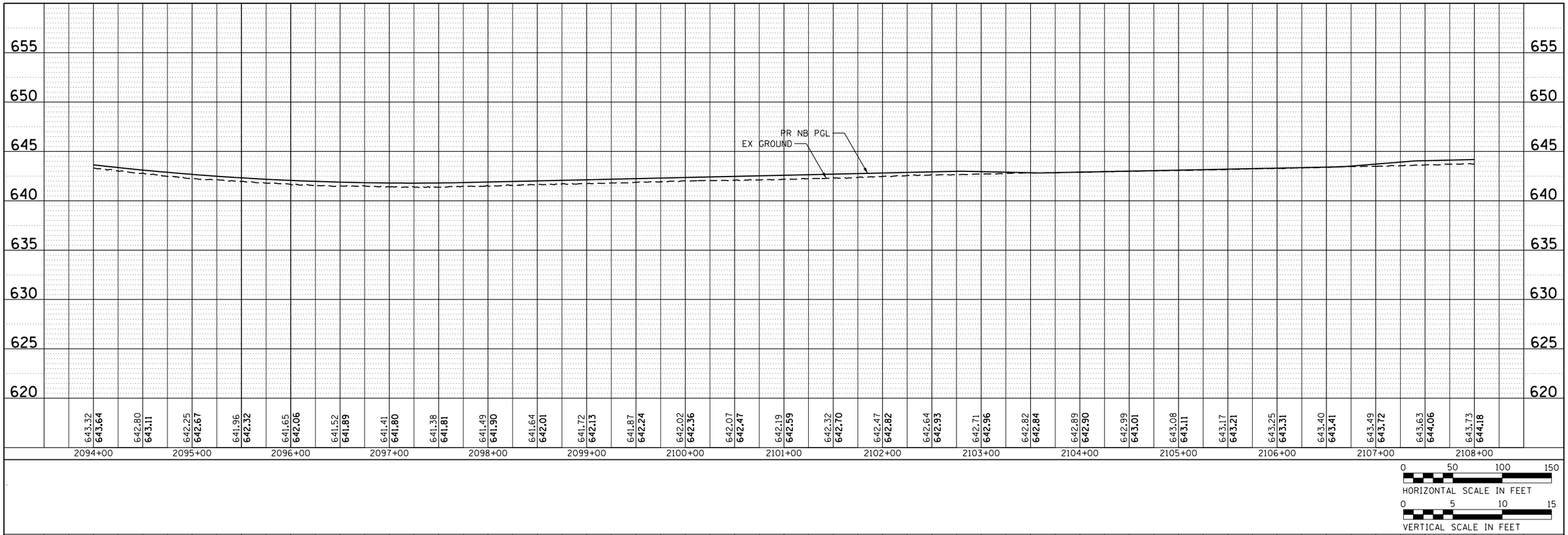

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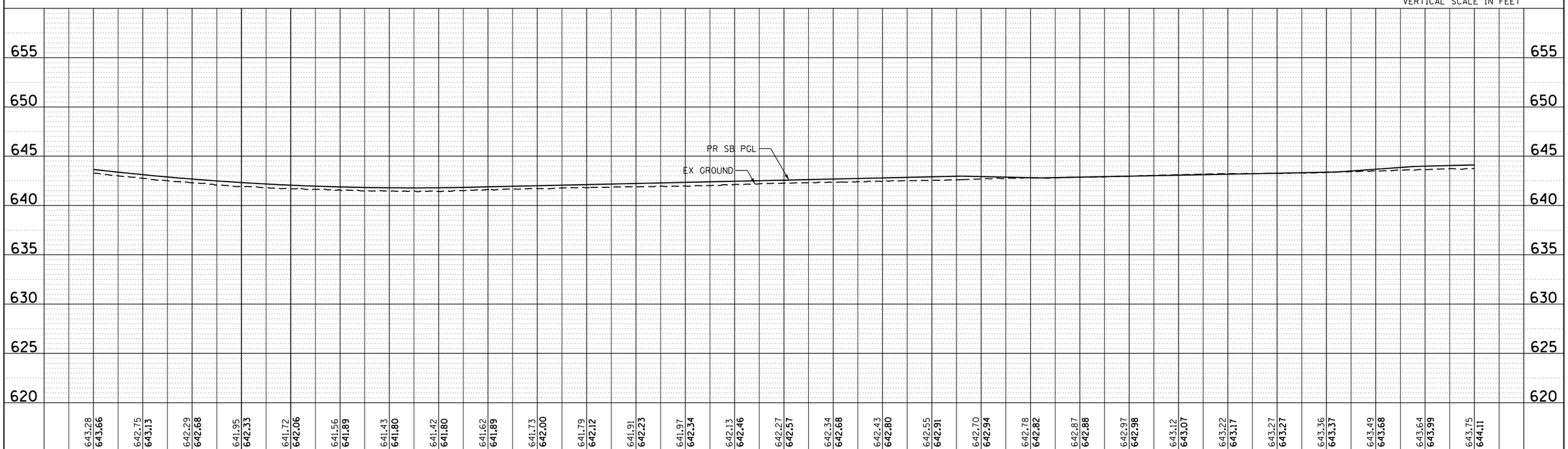

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REVISIONS

NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-40
DRAWING NO. 141 OF 196

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12/21/2017
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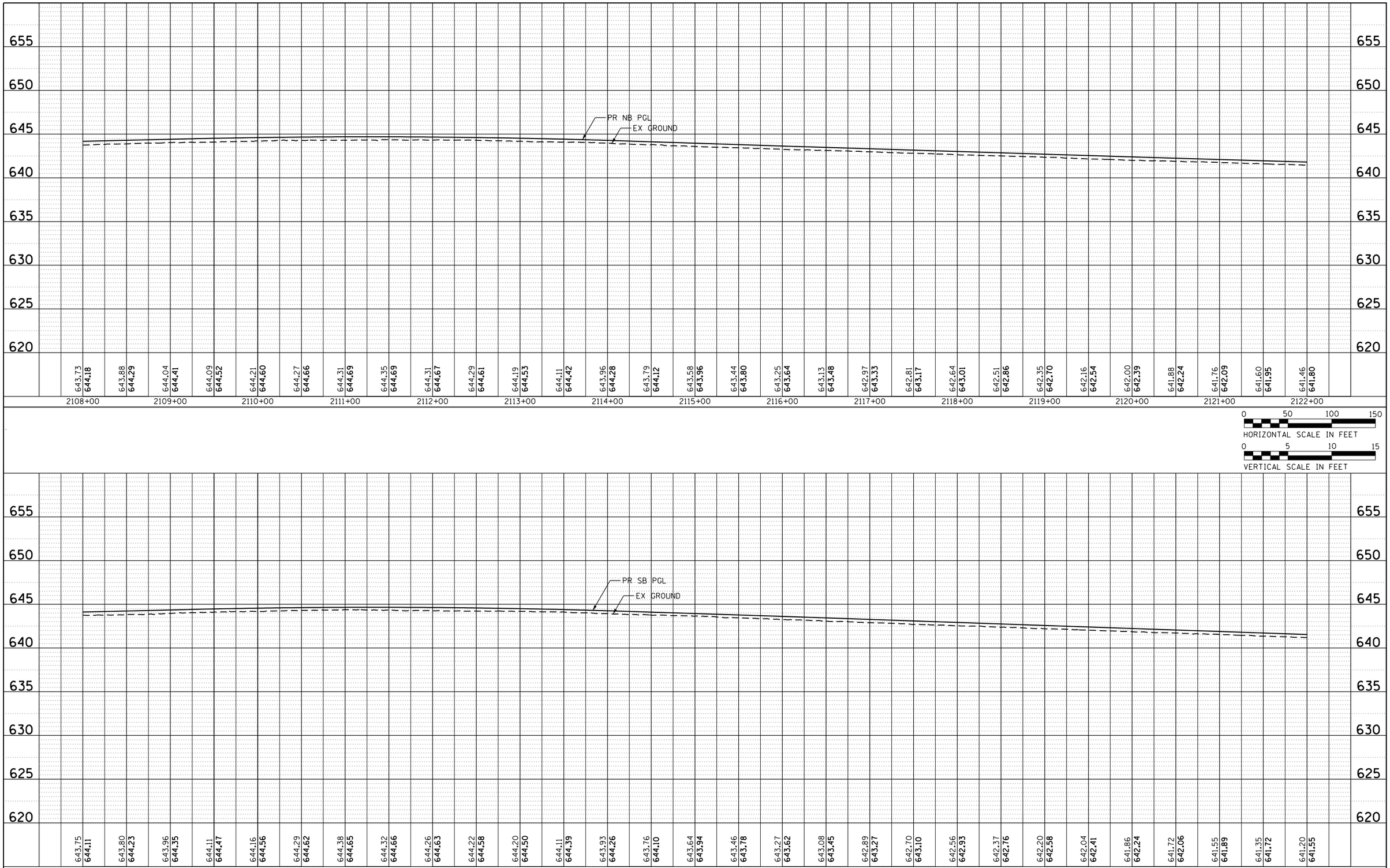

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REVISIONS

NO.	DATE	DESCRIPTION

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EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-41
DRAWING NO. 142 OF 196

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

RR-14-4224

EXHIBIT A5.5-5
DRAINAGE PROFILE NB/SB I-294

SHEET NO. DPR-42
DRAWING NO. 143 OF 196

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12/21/2017
100.0000 ' / in.
heh-01663

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5.6 TYPICAL EXISTING CROSS SECTION

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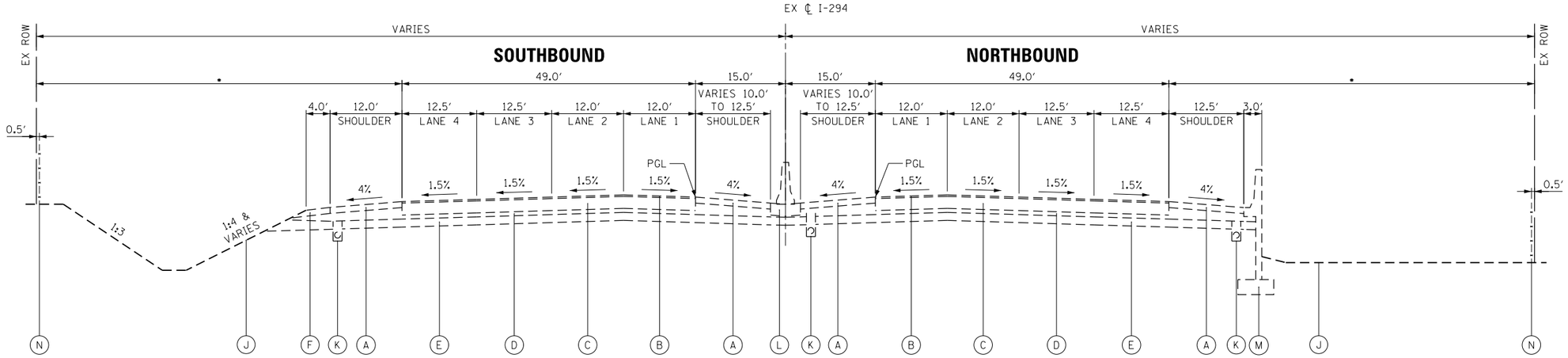
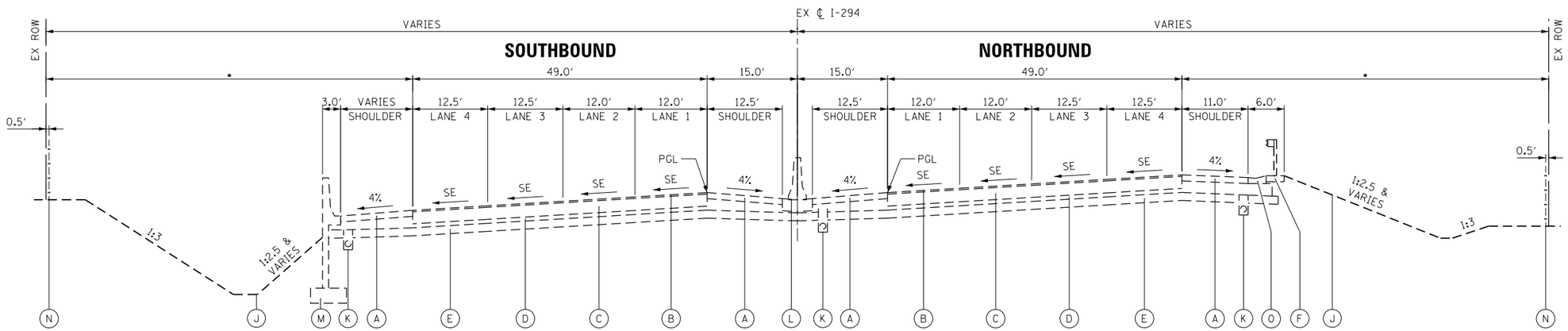


EXISTING I–294 TOLLWAY

STA. 11641+50 TO STA. 11653+00
STA. 11683+75 TO STA. 11689+70
STA. 11732+55 TO STA. 11742+82
STA. 11756+34 TO STA. 11768+71.65



EXISTING I–294 TOLLWAY

STA. 11712+32 TO STA. 11732+55

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
- (P) EXISTING ABUTMENT
- (Q) EXISTING SLOPED WALL

NOTES

TYPICAL SECTIONS ARE GENERAL IN NATURE TO DEPICT A WIDE RANGE OF COMMON ELEMENTS ALONG THE CORRIDOR.

SEE BRIDGE CONDITION REPORTS FOR BRIDGE CROSS SECTIONS AND OTHER INFORMATION.

- SEE EXISTING CONDITION PLANS FOR ACTUAL CONDITIONS, INCLUDING NOISE WALLS, RETAINING WALLS, AND GUARDRAIL BEYOND EDGE OF PAVEMENT.

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CHECKED BY MHL	DATE 12/15/2017				EXISTING TYPICAL SECTIONS

SHEET NO. TYP-01
DRAWING NO. 18 OF 734

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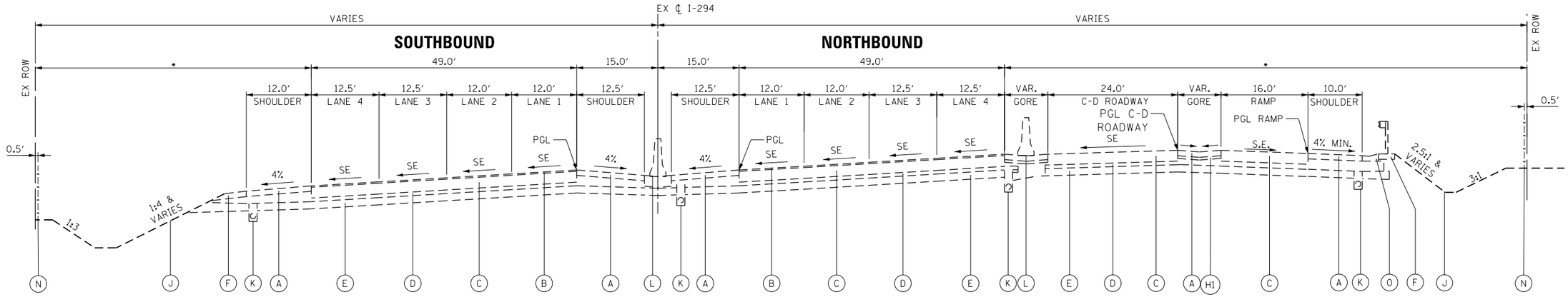
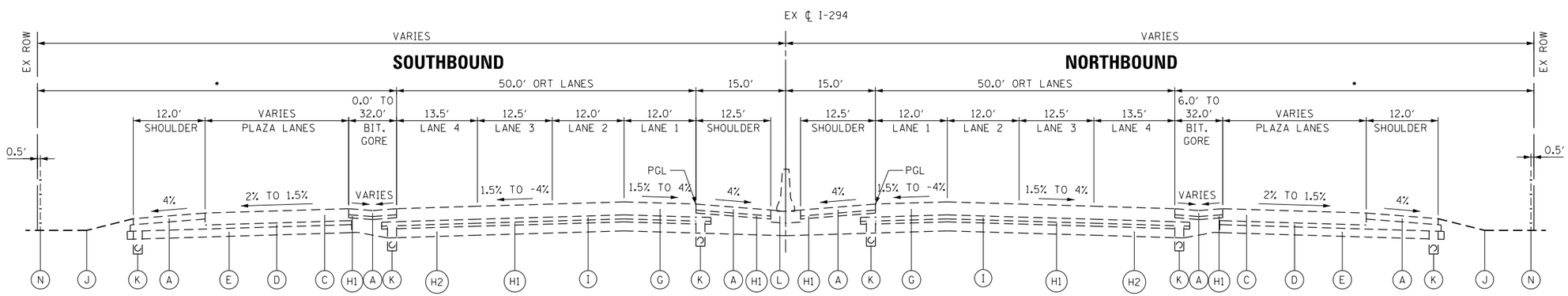


EXISTING I–294 TOLLWAY

TYPICAL SECTION (SUPERELEVATED LEFT)
STA. 11632+00 TO STA. 11641+50



EXISTING I–294 TOLLWAY

CERMAK TOLL PLAZA STA. 1568+00 TO STA. 1608+00

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
- (P) EXISTING ABUTMENT
- (Q) EXISTING SLOPED WALL

NOTES

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NO.	DATE	DESCRIPTION

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EXISTING TYPICAL SECTIONS

SHEET NO. TYP-02
DRAWING NO. 19 OF 734

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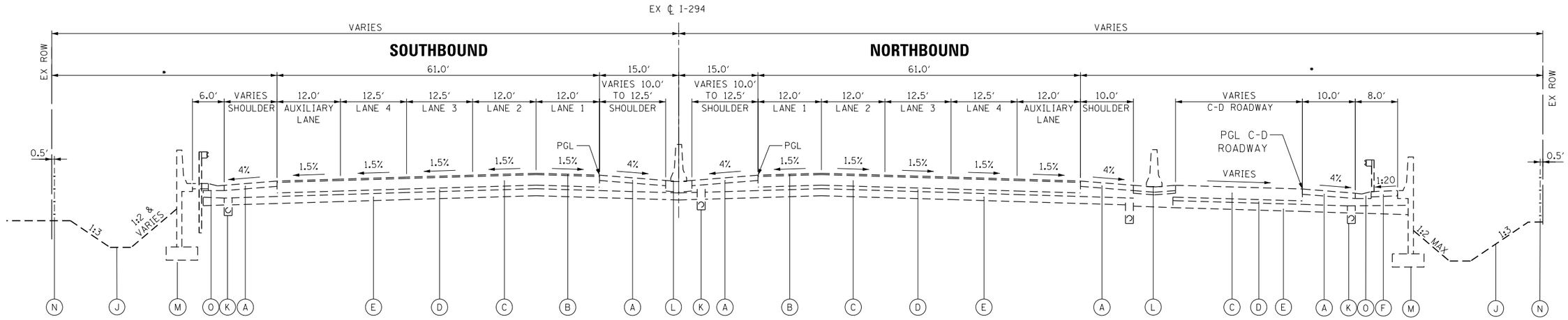
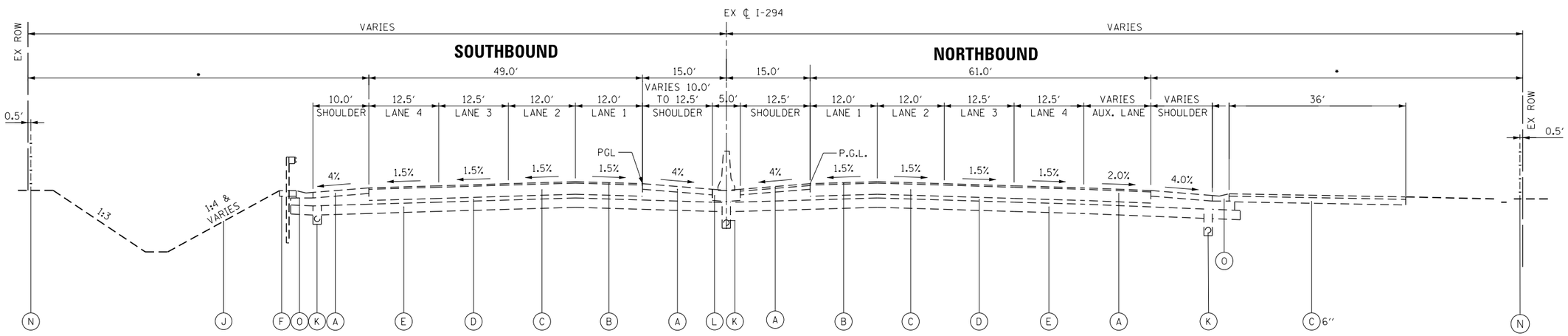


EXISTING I–294 TOLLWAY

STA. 11653+00 TO STA. 11666+87



EXISTING I–294 TOLLWAY

STA. 11683+75 TO STA. 11689+70

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
- (P) EXISTING ABUTMENT
- (Q) EXISTING SLOPED WALL

NOTES

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CHECKED BY MHL	DATE 12/15/2017				EXISTING TYPICAL SECTIONS

SHEET NO. TYP-03
DRAWING NO. 20 OF 734

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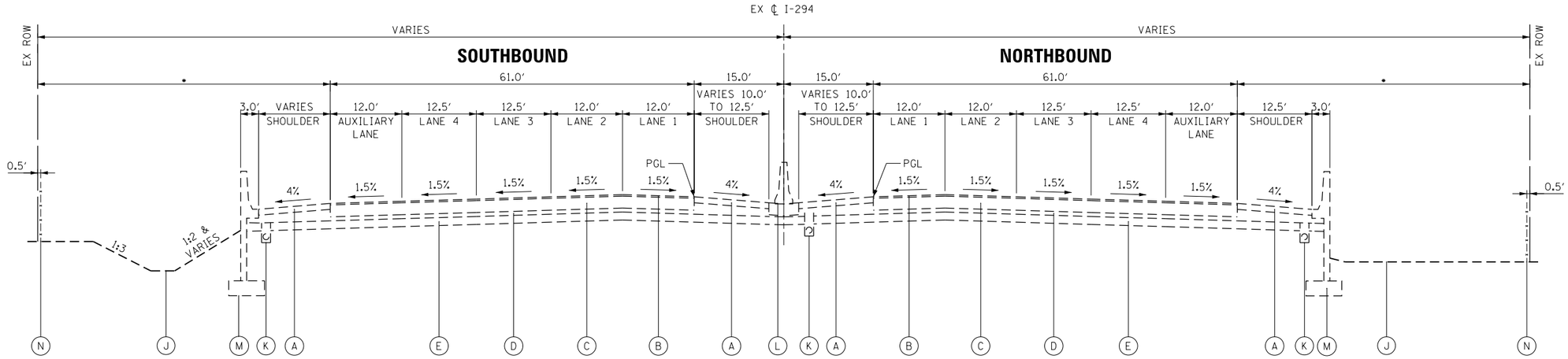
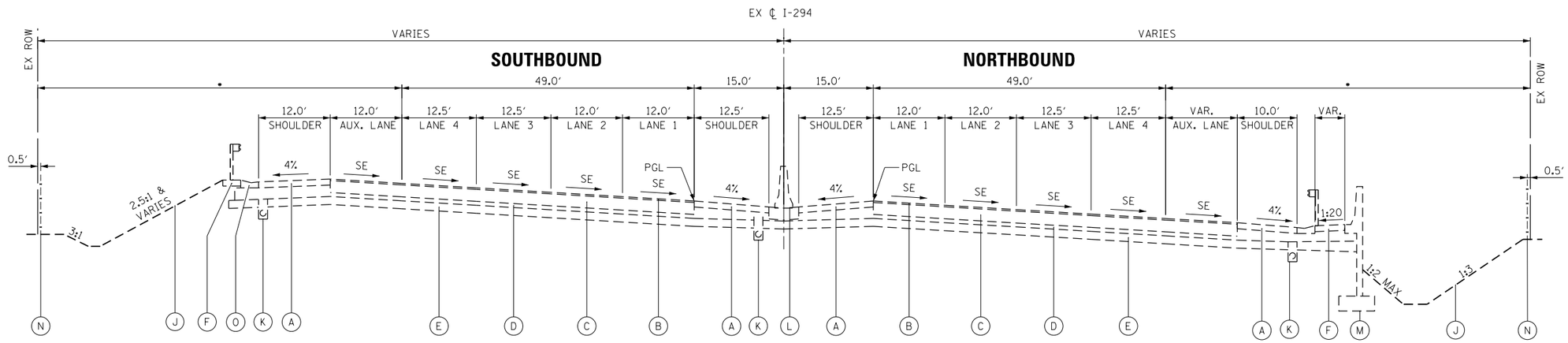


EXISTING I–294 TOLLWAY

STA. 11702+38 TO STA. 11712+32



EXISTING I–294 TOLLWAY

TYPICAL SECTION (SUPERELEVATED RIGHT)
STA. 11689+70 TO STA. 11702+38

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
- (P) EXISTING ABUTMENT
- (Q) EXISTING SLOPED WALL

NOTES

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CHECKED BY MHL	DATE 12/15/2017				EXISTING TYPICAL SECTIONS	DRAWING NO. 21 OF 734

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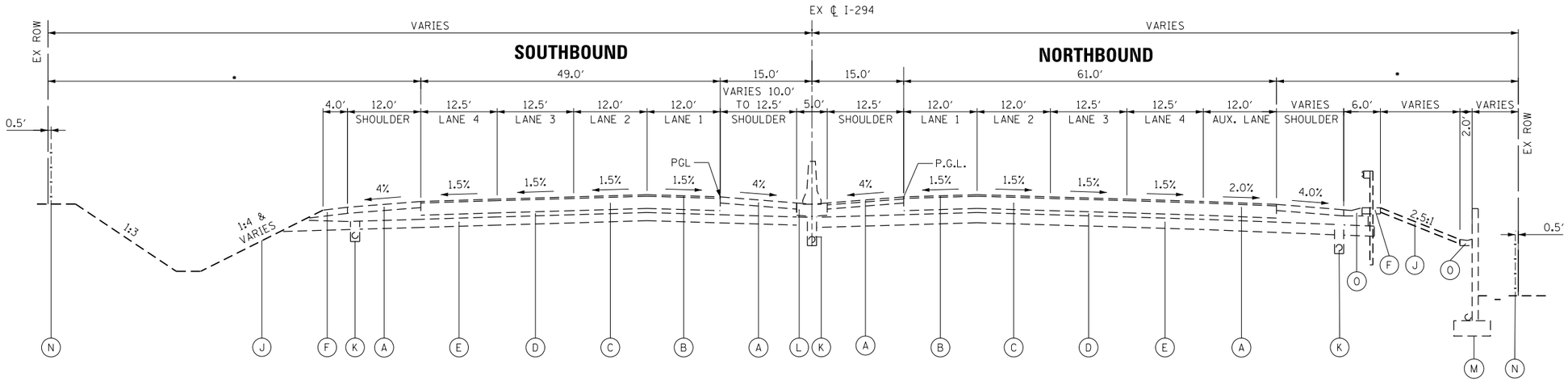
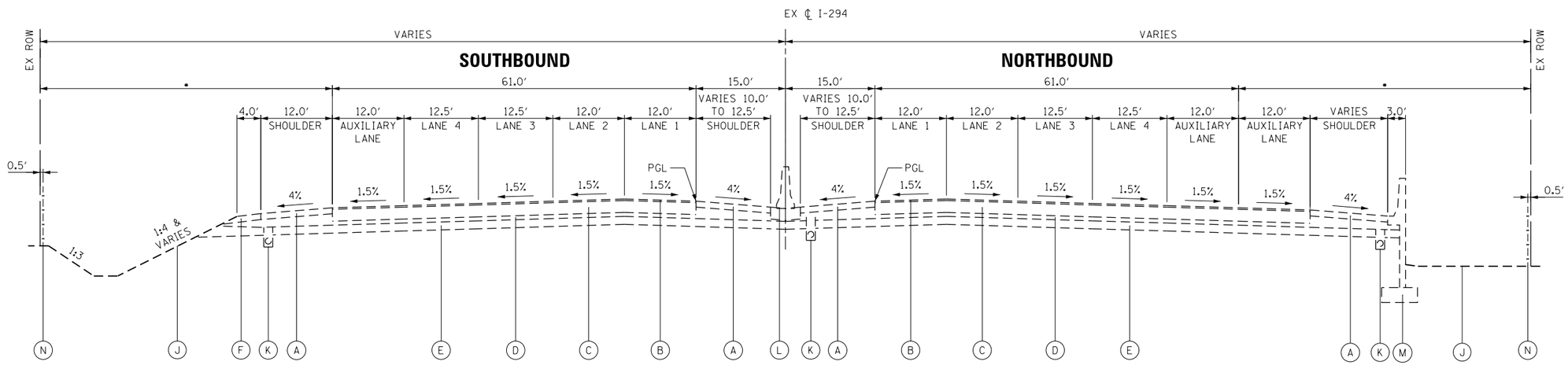


EXISTING I–294 TOLLWAY

STA. 1619+00 TO STA. 1625+00



EXISTING I–294 TOLLWAY

STA. 1608+00 TO STA. 1615+00

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
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NOTES

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CHECKED BY MHL	DATE 12/15/2017		

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NO.	DATE	DESCRIPTION

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EXISTING TYPICAL SECTIONS

SHEET NO. TYP-05

DRAWING NO. 22 OF 734

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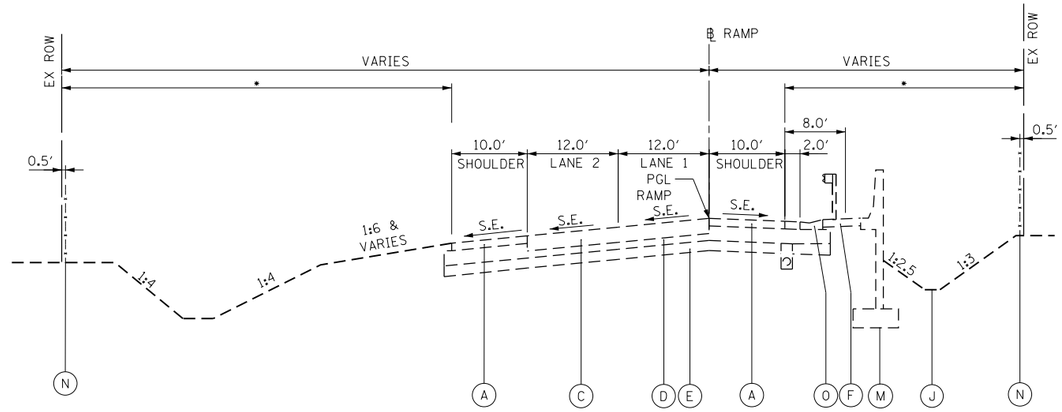
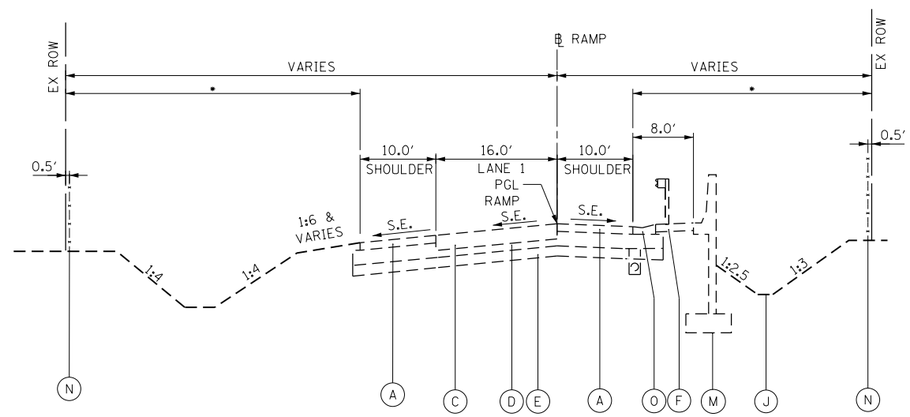


EXISTING TWO LANE RAMP

TYPICAL SECTION (SUPERELEVATED LEFT)
I-290 INTERCHANGE RAMP H



EXISTING ONE LANE RAMP

TYPICAL SECTION (SUPERELEVATED LEFT)
I-290 INTERCHANGE RAMP G

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6″ AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½″ EACH)
- (C) EXISTING PCC PAVEMENT, 12″ AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4″ AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8″ AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6″ AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13″
- (H) EXISTING AGGREGATE SUBGRADE, 12″ AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3″
  - (H2) PGE, 9″ AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4″
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6″)
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
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- (Q) EXISTING SLOPED WALL

NOTES

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CHECKED BY MHL	DATE 12/15/2017				EXISTING TYPICAL SECTIONS

SHEET NO. TYP-06
DRAWING NO. 23 OF 734

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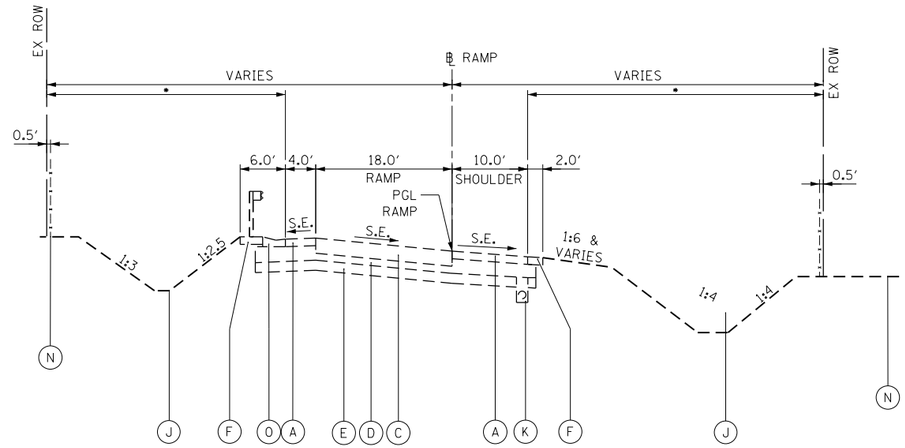
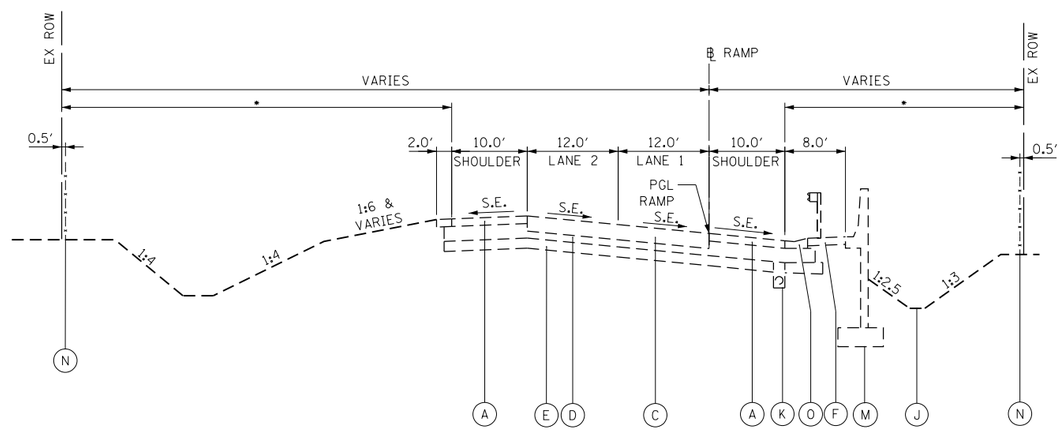


EXISTING ONE LANE RAMP

TYPICAL SECTION (SUPERELEVATED RIGHT)
ROOSEVELT ROAD INTERCHANGE RAMP B
ROOSEVELT ROAD INTERCHANGE RAMP C



EXISTING TWO LANE RAMP

TYPICAL SECTION (SUPERELEVATED RIGHT)
I-290 INTERCHANGE RAMP C
I-88 INTERCHANGE RAMP F

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6'' AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½'' EACH)
- (C) EXISTING PCC PAVEMENT, 12'' AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4'' AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8'' AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6'' AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13''
- (H) EXISTING AGGREGATE SUBGRADE, 12'' AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3''
  - (H2) PGE, 9'' AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4''
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6'')
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
- (O) EXISTING GUTTER
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CHECKED BY MHL	DATE 12/15/2017				EXISTING TYPICAL SECTIONS	DRAWING NO. 24 OF 734

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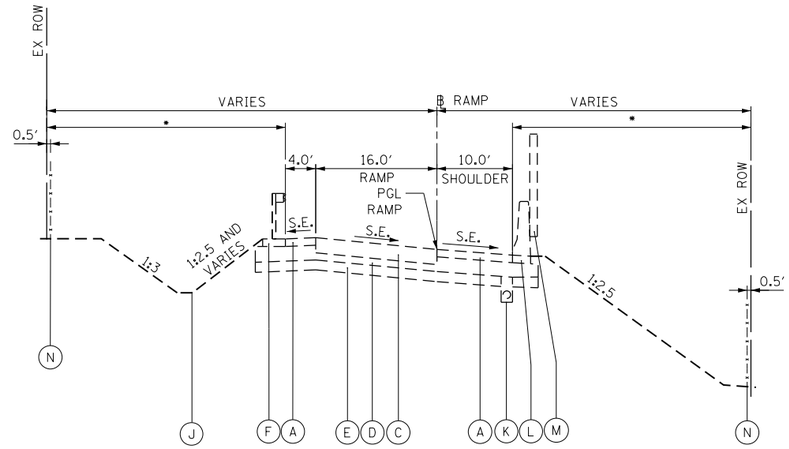
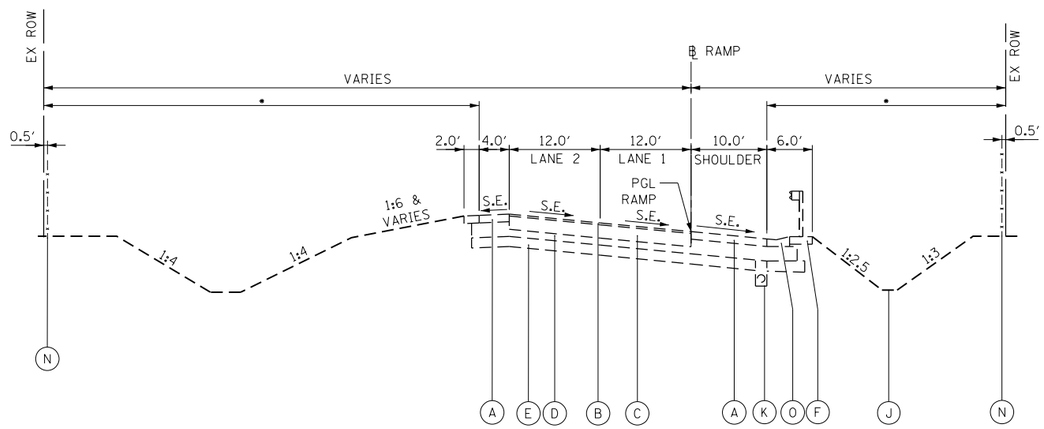


EXISTING ONE LANE RAMP

TYPICAL SECTION (SUPERELEVATED RIGHT)
I-88 INTERCHANGE RAMP D



EXISTING TWO LANE RAMP

TYPICAL SECTION (SUPERELEVATED RIGHT)
I-290 INTERCHANGE RAMP H
I-290 INTERCHANGE RAMP K

EXISTING LEGEND

- (A) EXISTING BITUMINOUS CONCRETE SHOULDERS, 6'' AND VARIES
- (B) EXISTING BITUMINOUS BINDER AND SURFACE COURSES (1½'' EACH)
- (C) EXISTING PCC PAVEMENT, 12'' AND VARIES
- (D) EXISTING GRANULAR SUBBASE, 4'' AND VARIES
- (E) EXISTING SELECTED SUBGRADE, 8'' AND VARIES
- (F) EXISTING AGGREGATE SHOULDER, 6'' AND VARIES
- (G) EXISTING CRPCC PAVEMENT, 13''
- (H) EXISTING AGGREGATE SUBGRADE, 12'' AND VARIES
  - (H1) CA-6 CAPPING AGGREGATE, 3''
  - (H2) PGE, 9'' AND VARIES
- (I) EXISTING BITUMINOUS BASE COURSE, 4''
- (J) EXISTING TOPSOIL
- (K) EXISTING SUBSURFACE DRAIN (FILTER FABRIC) (6'')
- (L) EXISTING CONCRETE MEDIAN BARRIER AND BASE
- (M) EXISTING RETAINING WALL OR NOISE WALL
- (N) EXISTING ROW FENCE
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- (P) EXISTING ABUTMENT
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DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224 EXISTING TYPICAL SECTIONS
CHECKED BY MHL	DATE 12/15/2017				SHEET NO. TYP-08 DRAWING NO. 25 OF 734

5.7 TYPICAL PROPOSED CROSS SECTION

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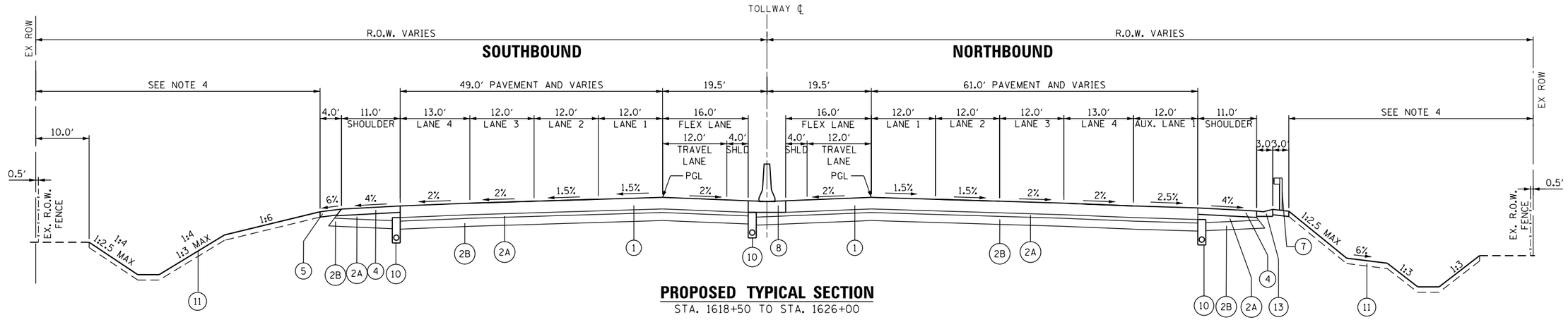
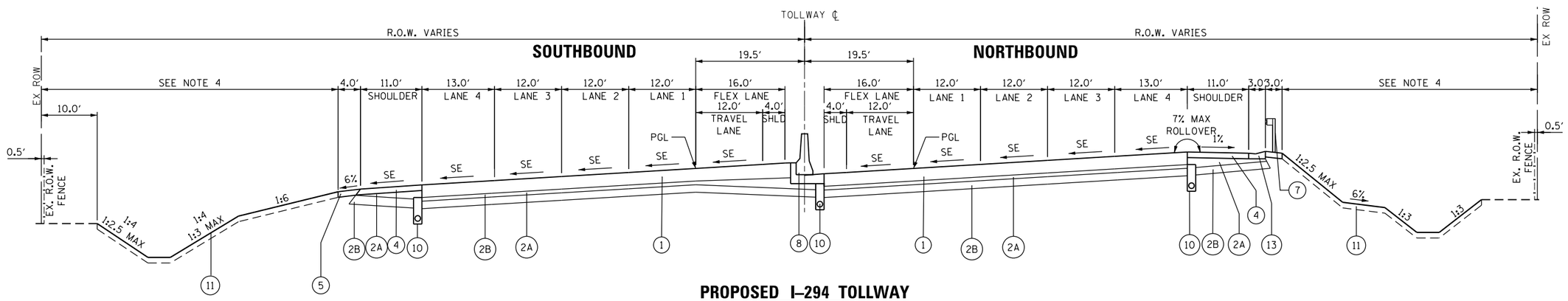


PROPOSED TYPICAL SECTION

STA. 1618+50 TO STA. 1626+00



PROPOSED I-294 TOLLWAY

STA. 1626+80 TO STA. 11630+30

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS

SHEET NO. TYP-09
DRAWING NO. 26 OF 734

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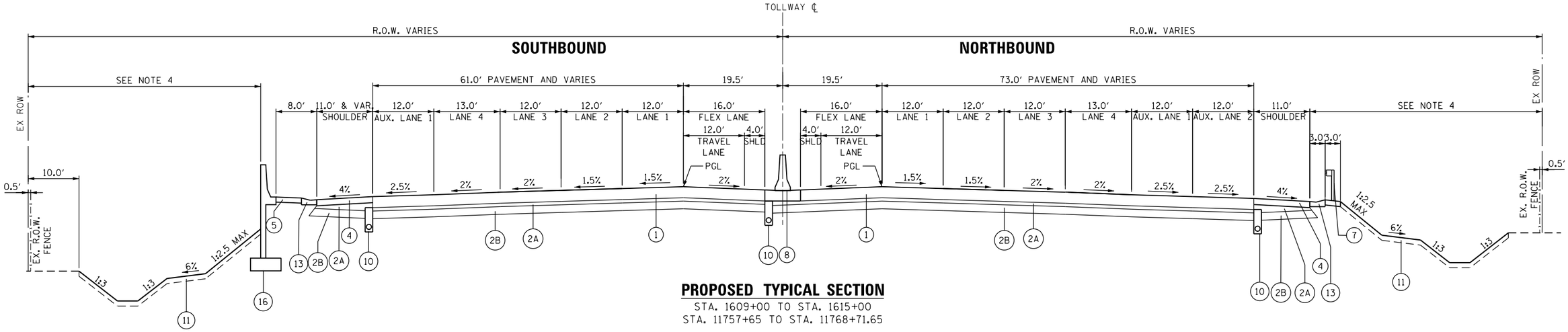
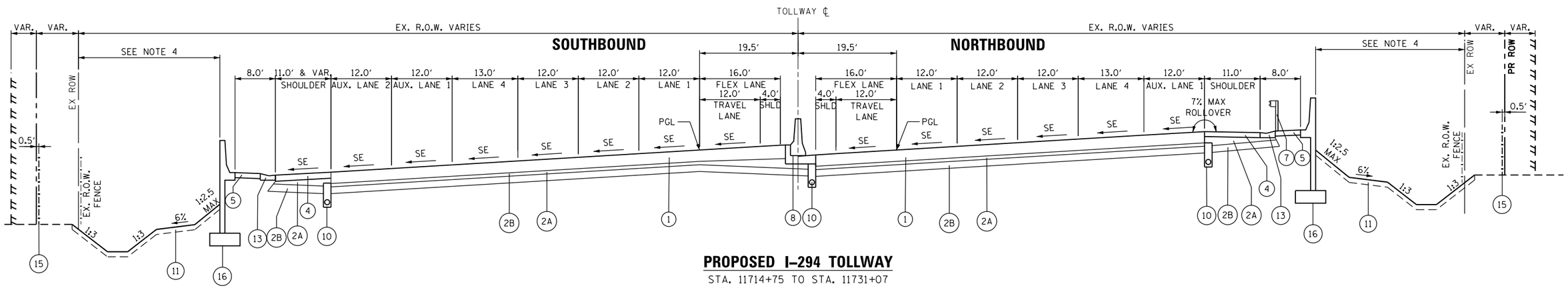


PROPOSED TYPICAL SECTION

STA. 1609+00 TO STA. 1615+00
STA. 11757+65 TO STA. 11768+71.65



PROPOSED I-294 TOLLWAY

STA. 11714+75 TO STA. 11731+07

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS

SHEET NO. TYP-10
DRAWING NO. 27 OF 734

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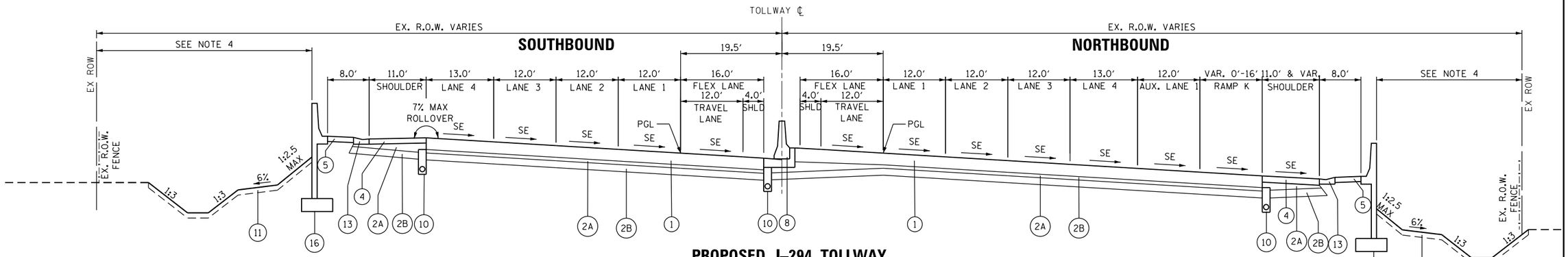
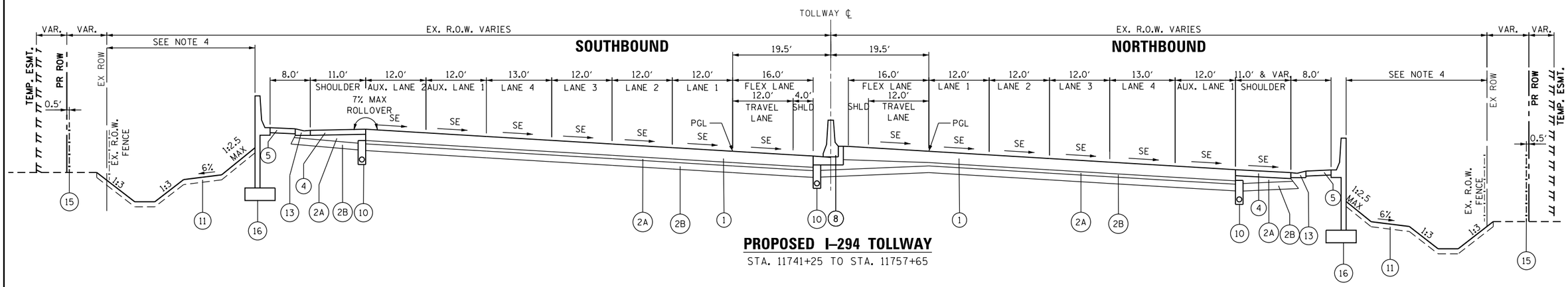


PROPOSED I–294 TOLLWAY

STA. 11683+75 TO STA. 11703+72



PROPOSED I–294 TOLLWAY

STA. 11741+25 TO STA. 11757+65

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	RR-14-4224	SHEET NO. TYP-11
CHECKED BY MHL	DATE 12/15/2017		REVISIONS: NO. / DATE / DESCRIPTION	PROPOSED TYPICAL SECTIONS	DRAWING NO. 28 OF 734

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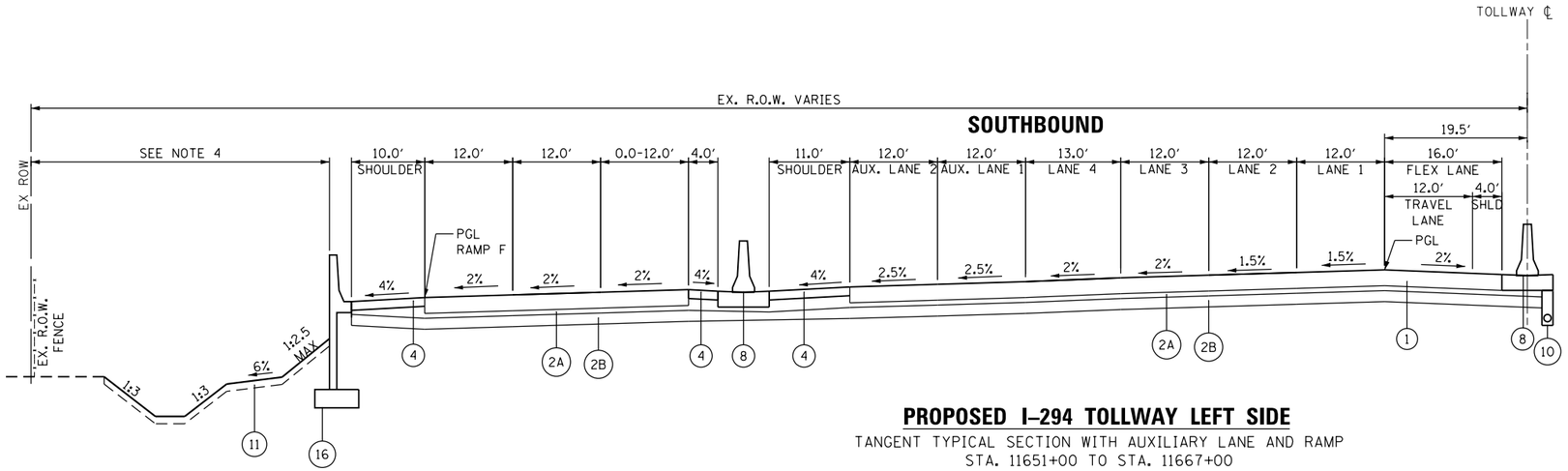
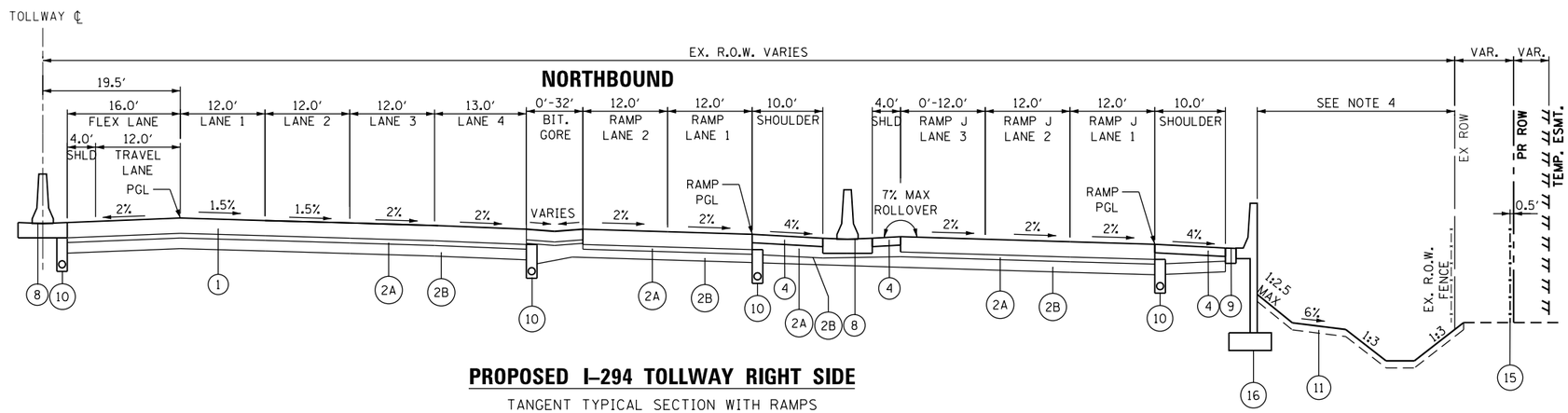


PROPOSED I-294 TOLLWAY LEFT SIDE

TANGENT TYPICAL SECTION WITH AUXILIARY LANE AND RAMP
STA. 11651+00 TO STA. 11667+00



PROPOSED I-294 TOLLWAY RIGHT SIDE

TANGENT TYPICAL SECTION WITH RAMPS
11652+50 TO STA. 11666+50

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224	SHEET NO. TYP-12
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS	DRAWING NO. 29 OF 734

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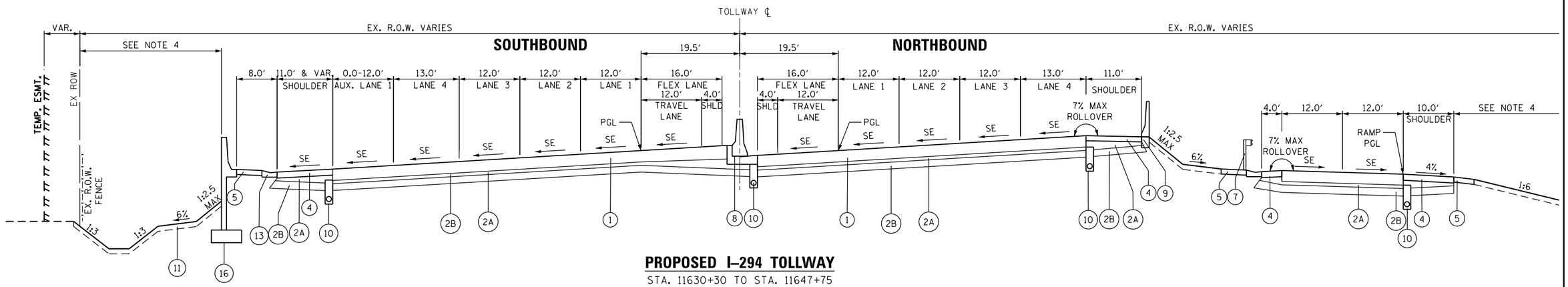

PROPOSED I–294 TOLLWAY

STA. 11630+30 TO STA. 11647+75

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS

SHEET NO. TYP-13
DRAWING NO. 30 OF 734

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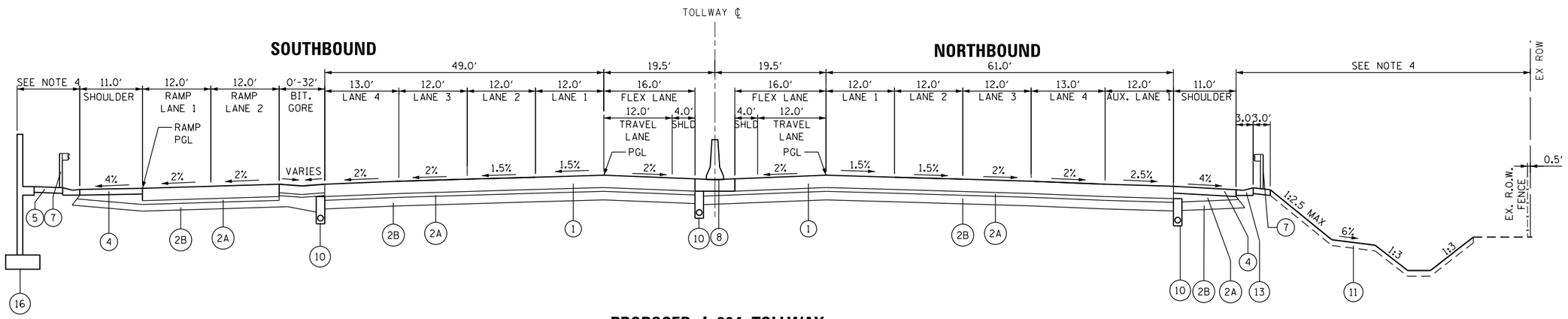

PROPOSED I–294 TOLLWAY

STA. 11703+72 TO STA. 11714+60

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS

SHEET NO. TYP-14
DRAWING NO. 31 OF 734

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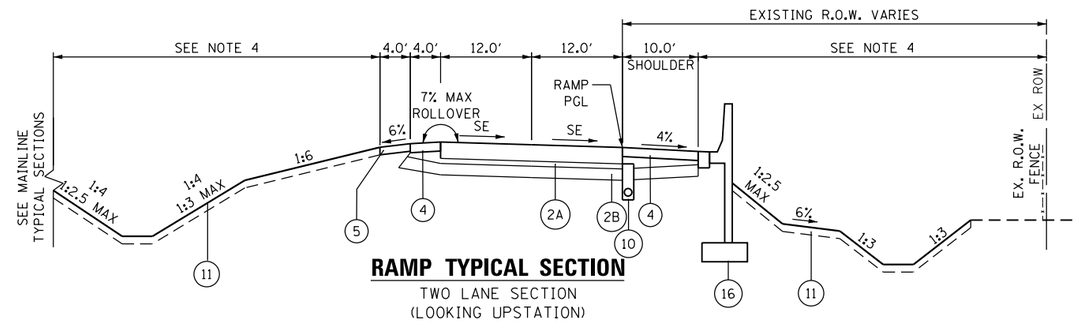
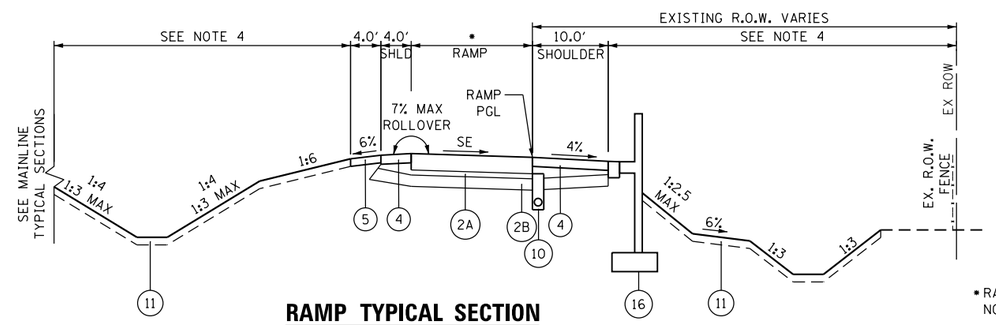


RAMP TYPICAL SECTION

TWO LANE SECTION
(LOOKING UPSTATION)



RAMP TYPICAL SECTION

ONE LANE SECTION
(LOOKING UPSTATION SUPERELEVATED RIGHT)

* RAMP LANE WIDTH IS 18 FT FOR LOOP RAMPS.
NON-LOOP RAMP LANE WIDTH IS 16 FT.

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224	SHEET NO. TYP-15
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS	DRAWING NO. 32 OF 734

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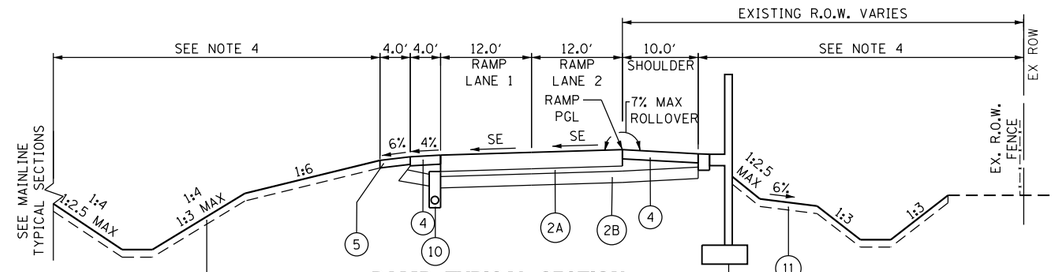
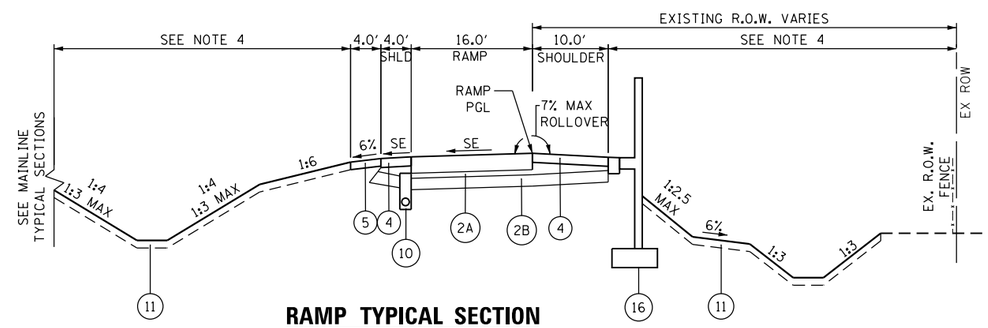


RAMP TYPICAL SECTION

TWO LANE SECTION
(LOOKING UPSTATION SUPERELEVATED LEFT)



RAMP TYPICAL SECTION

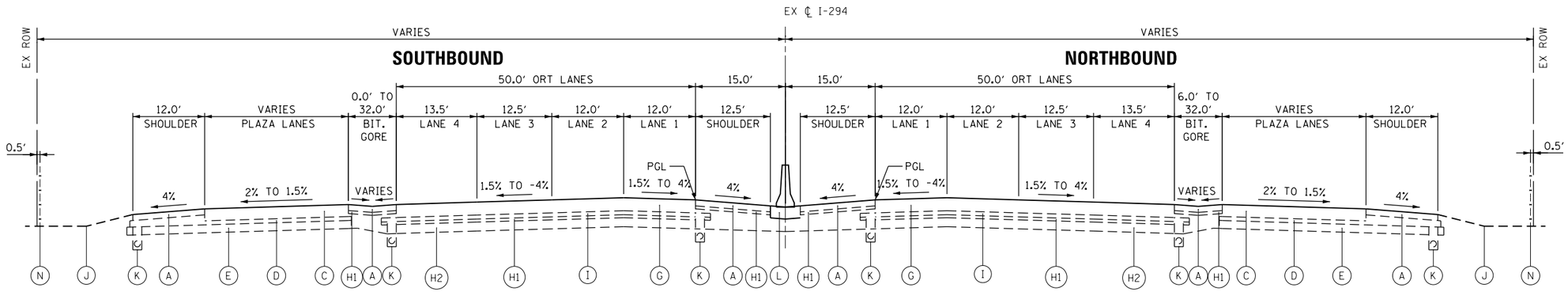
ONE LANE SECTION
(LOOKING UPSTATION SUPERELEVATED LEFT)

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.



PROPOSED I-294 TOLLWAY

CERMAK TOLL PLAZA STA. 1568+00 TO STA. 1608+00

PROPOSED LEGEND

1. MAINLINE PAVEMENT
2A. AGGREGATE CAP
2B. PGE
3. SUBGRADE AGGREGATE
4. PROPOSED ASPHALT SHOULDER
5. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B
6. AGGREGATE SHOULDERS SPECIAL, TYPE C
7. GALVANIZED STEEL PLATE BEAM GUARDRAIL
8. CONCRETE BARRIER, DOUBLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
9. CONCRETE BARRIER, SINGLE FACE, 42 INCH AND CONCRETE BARRIER BASE, SPECIAL
10. PIPE UNDERDRAIN
11. TOPSOIL (SEEDING)
12. CHAIN LINK FENCE
13. GUTTER, TYPE G-3
14. GUTTER, TYPE G-2
15. R.O.W. FENCE
16. RETAINING WALL OR NOISE WALL

NOTES

1. PAVEMENT DESIGN IS NOT COMPLETE.
2. SUBGRADE SLOPES ARE NOT FINALIZED.
3. UNDERDRAIN LOCATIONS ARE NOT FINALIZED.
4. END CONDITIONS ARE NOT FINALIZED. FOR DETAILS, SEE TYPICAL SECTION SHEETS, TYP-18 TO TYP-21.
5. SEE PLAN SHEETS FOR PROPOSED RIGHT OF WAY AND EASEMENT LOCATIONS.

DRAWN BY RDT	SCALE N/A	T&IE	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS NO. / DATE / DESCRIPTION	RR-14-4224	SHEET NO. TYP-17
CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS	DRAWING NO. 34 OF 734

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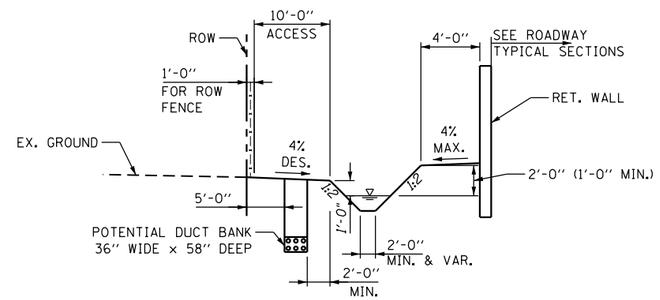
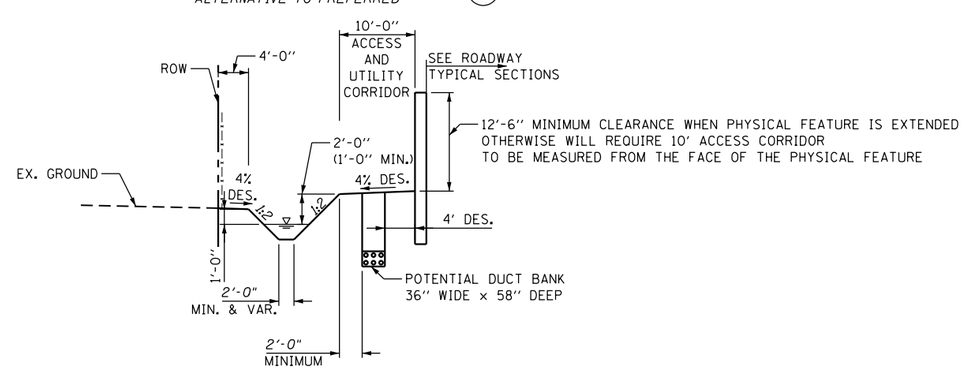
DITCH CONCEPT MAXIMUM SIDE SLOPES
PREFERRED (A)



DITCH CONCEPT MAXIMUM SIDE SLOPES
ALTERNATIVE TO PREFERRED (B)



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CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS	DRAWING NO. 35 OF 734

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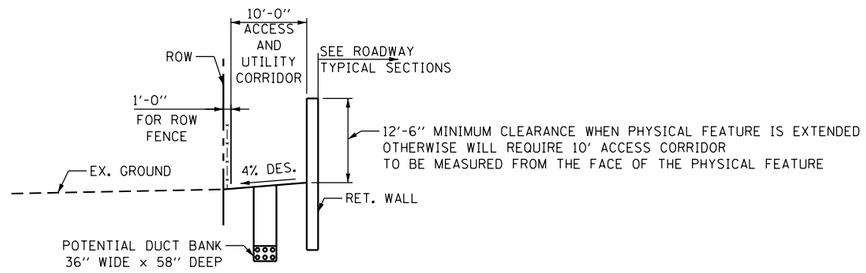
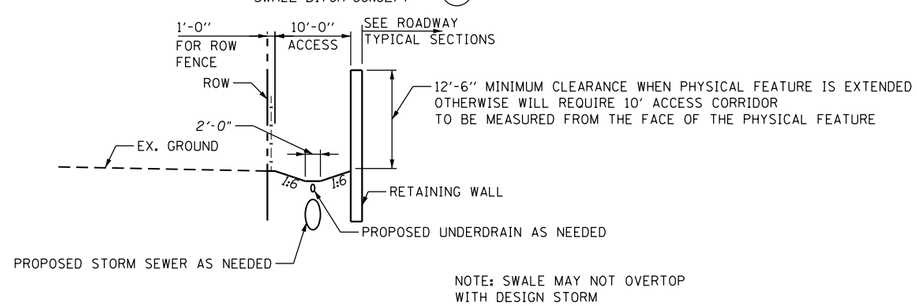
Guest.2

CONSTANT SLOPE ACCESS CORRIDOR (C)



LIMITED USE ALTERNATIVE SWALE DITCH CONCEPT (D)



NOTE: SWALE MAY NOT OVERTOP
WITH DESIGN STORM

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CHECKED BY	MHL	DATE	12/15/2017				PROPOSED TYPICAL SECTIONS

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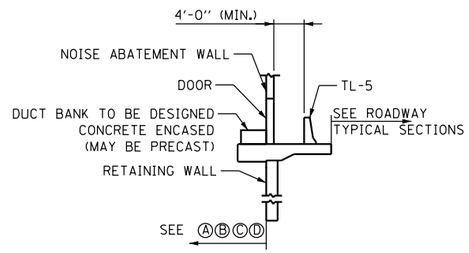
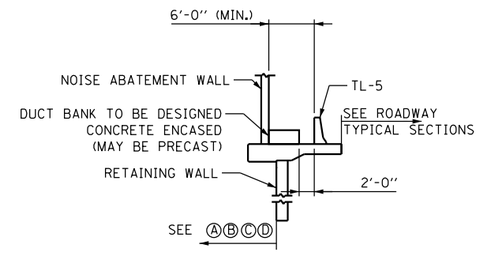
LIMITED USE ALTERNATIVES
WITH NOISE WALL

E

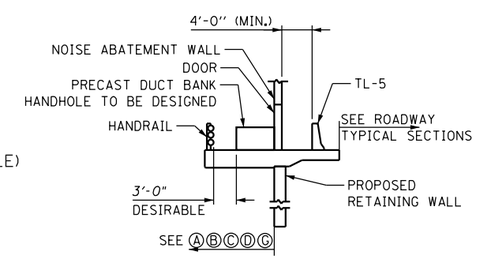


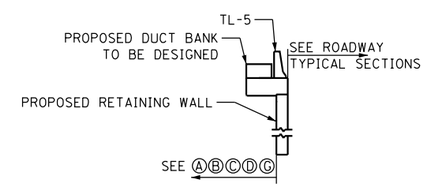


LIMITED USE ALTERNATIVES

F

(BUMP OUT AT HANDHOLE)





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CHECKED BY MHL	DATE 12/15/2017				PROPOSED TYPICAL SECTIONS	DRAWING NO. 37 OF 734

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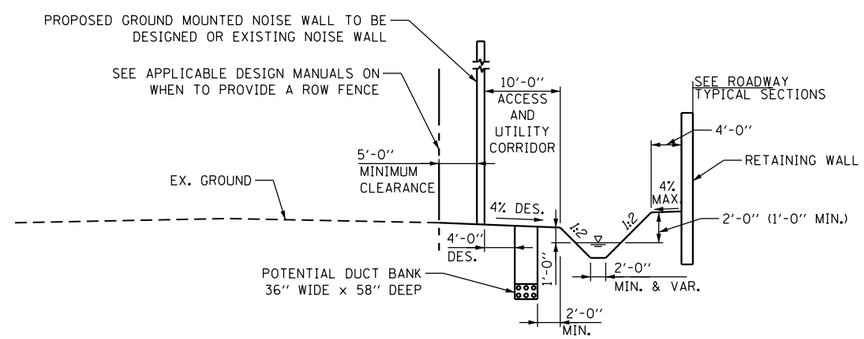
NOISE WALL CONCEPT
MAXIMUM SIDE SLOPES PREFERRED

G



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SHEET NO. TYP-21
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