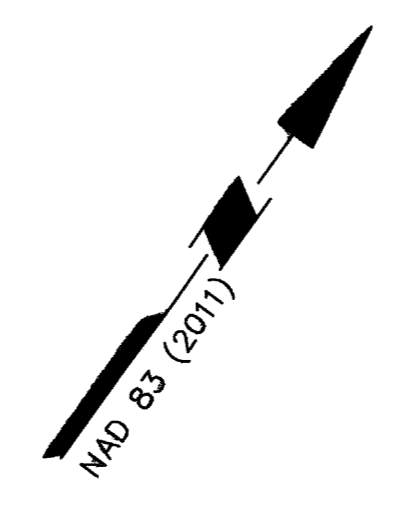


LEGEND

- PROPERTY LINE
- FLOOD HAZARD AREA LIMIT LINE
- FWA FLOODWAY AREA LIMIT LINE
- PROPOSED BUILDING
- PROPOSED CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM PIPE

NOTE: ALL INLETS ARE TYPE "B" UNLESS OTHERWISE NOTED.



REFER TO CS002 FOR GENERAL AND GRADING NOTES

Date	Description	No.
3/27/2020	REVISED FOR BOROUGHS, COUNTY, AND NJDEP COMMENTS	3
1/30/2020	REVISED FOR BOROUGHS ENGINEER AND NJDEP COMMENTS	2
9/4/19	REVISED FOR FSD COMMENTS AND PLANNING BOARD SUBMISSION	1

SIGNATURE: _____ DATE SIGNED: 04/08/2020
 PROFESSIONAL ENGINEER IN CHARGE NJ Lic. No. 27664-009300

LANGAN
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 NJ CERTIFICATE OF AUTHORIZATION No. 24042799400

Project: **MIDDLESEX BOROUGH WAREHOUSE PROJECT**
 BLOCK No. 353, LOTS No. 1.01 AND 1.02
 BOROUGH OF MIDDLESEX
 MIDDLESEX COUNTY NEW JERSEY

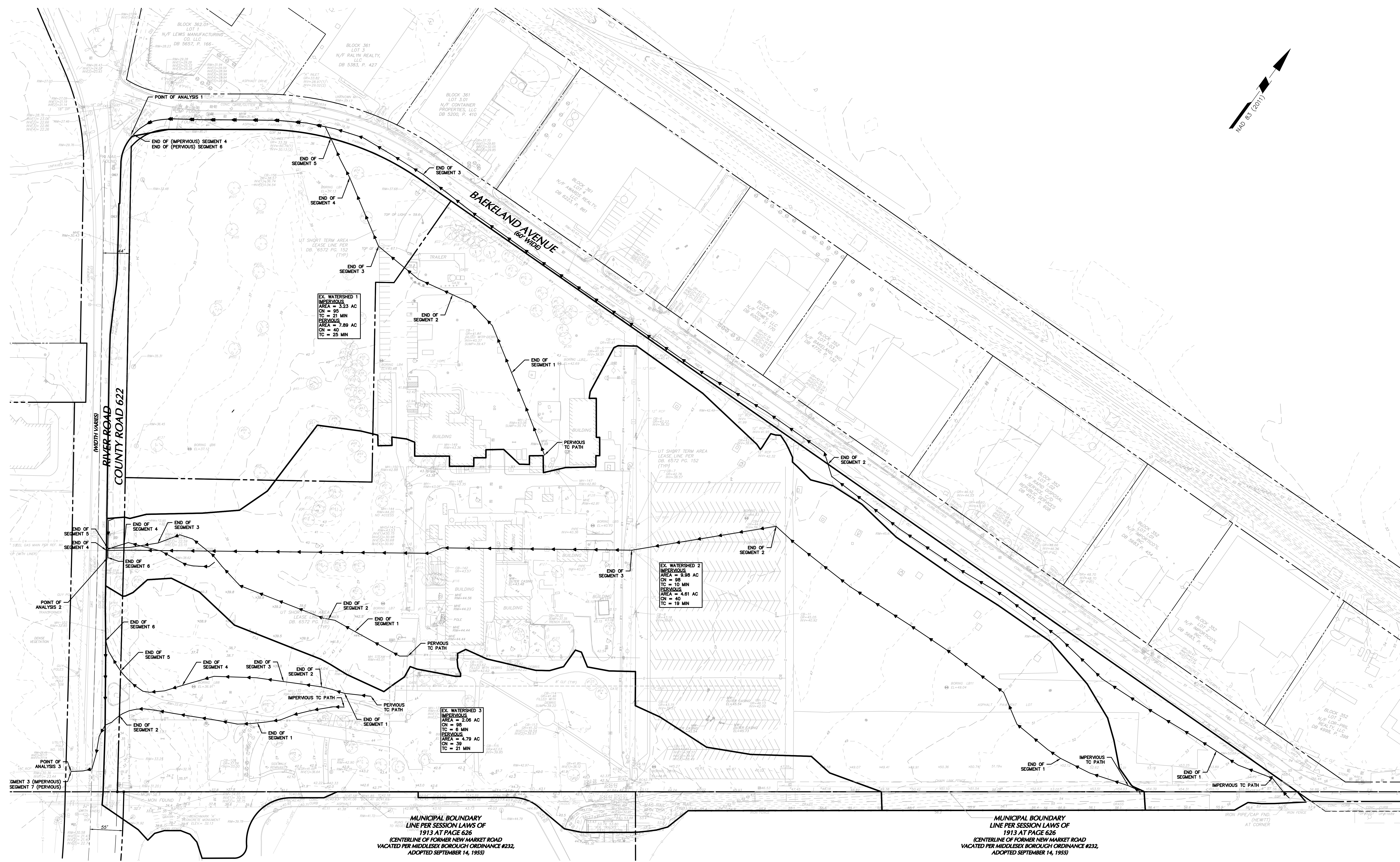
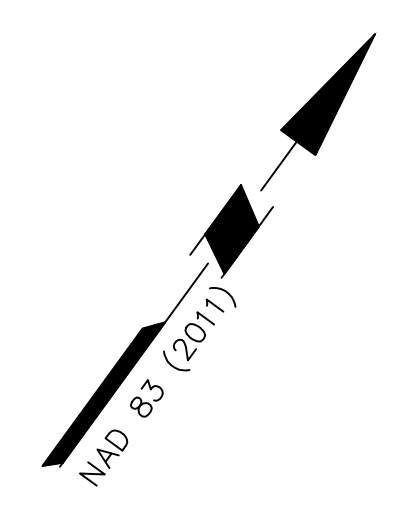
Drawing Title: **DRAINAGE PLAN**

Project No. 100594413
 Date: 7/8/2019
 Scale: 1" = 60'
 Drawn By: SLK
 Checked By: MRW
 Drawing No. CG201
 Sheet 5 of 22

PROJECT NO. 100594413

LANGAN

Filename: \\langan.com\gmap\PARC041\100594413\Project Data\CAD\13\Sheet\Site Plan Submission\100594413-CG201-0101.dwg Date: 3/25/2020 Time: 18:23 User: skatwork Site Table: Langan.tbl Layout: CG201 - DRAINAGE PLAN



EX. WATERSHED 1
IMPERVIOUS
AREA = 3.23 AC
CN = 85
TC = 21 MIN
PERVIOUS
AREA = 7.88 AC
CN = 40
TC = 25 MIN

EX. WATERSHED 2
IMPERVIOUS
AREA = 9.98 AC
CN = 98
TC = 10 MIN
PERVIOUS
AREA = 4.61 AC
CN = 40
TC = 19 MIN

EX. WATERSHED 3
IMPERVIOUS
AREA = 2.08 AC
CN = 98
TC = 6 MIN
PERVIOUS
AREA = 4.79 AC
CN = 39
TC = 21 MIN

MUNICIPAL BOUNDARY
LINE PER SESSION LAWS OF
1913 AT PAGE 626
(CENTERLINE OF FORMER NEW MARKET ROAD
VACATED PER MIDDLESEX BOROUGH ORDINANCE #232,
ADOPTED SEPTEMBER 14, 1955)

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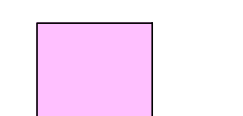
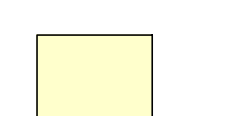
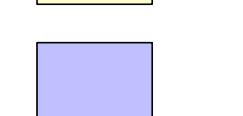
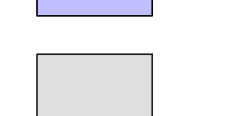
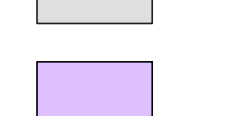


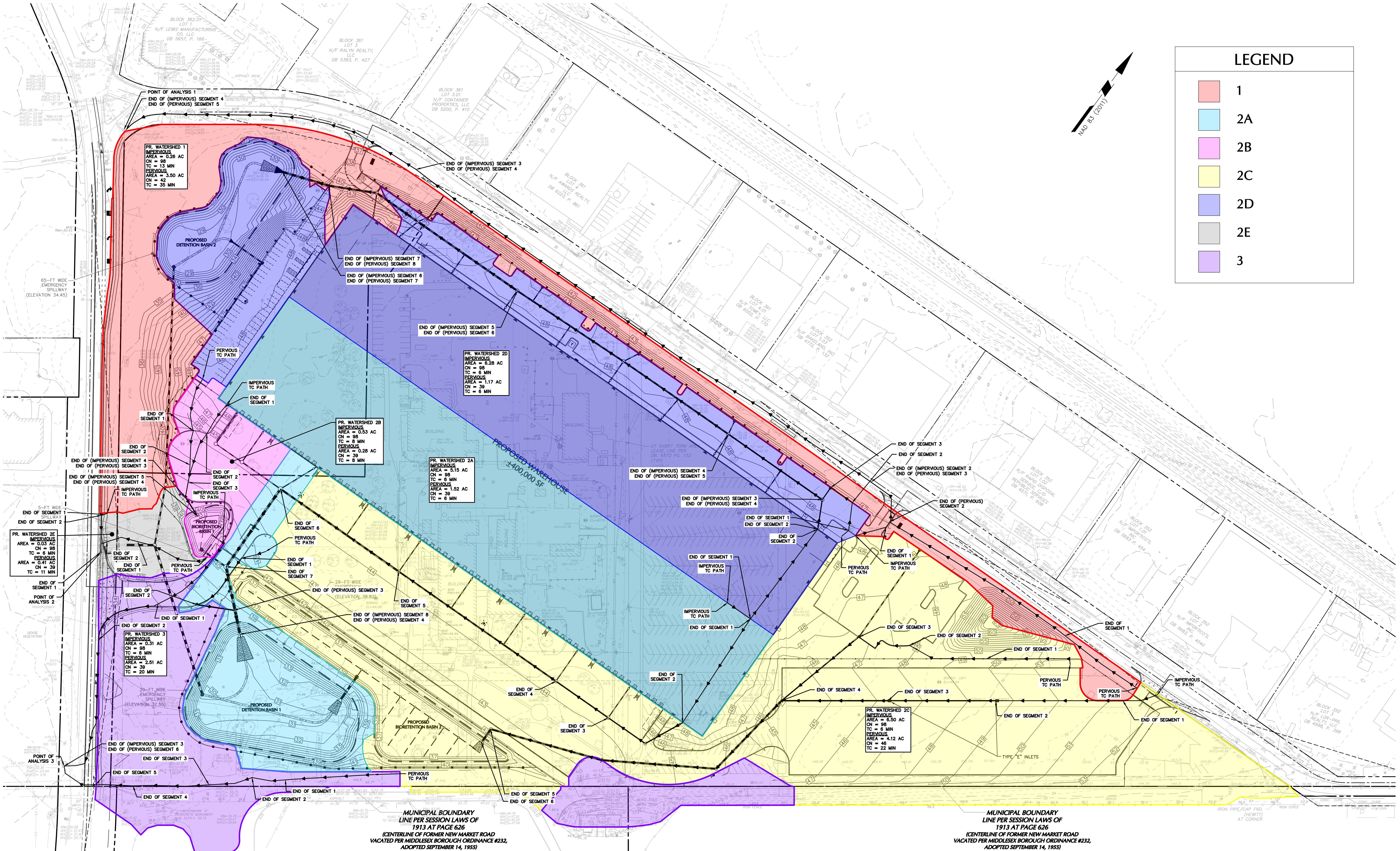
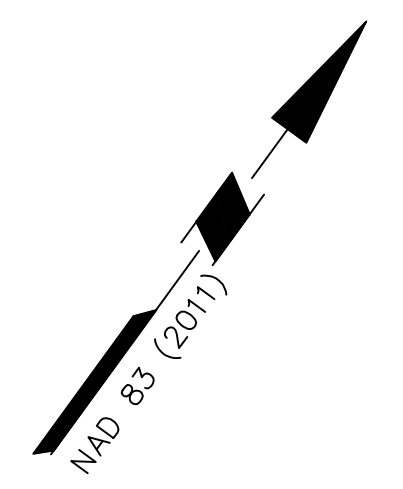
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Langan CI, Inc.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project **MIDDLESEX BOROUGH WAREHOUSE PROJECT**
BLOCK No. 353, LOT No. 1.01 AND 1.02
BOROUGH OF MIDDLESEX
NEW JERSEY

Drawing Title **EXISTING WATERSHED MAP**

Project No. 100594413	Drawing No. DA101
Date 3/25/2020	
Scale 1"=60'	
Drawn By SLK	Checked By MRW

LEGEND	
	1
	2A
	2B
	2C
	2D
	2E
	3



NOTES

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MUNICIPAL BOUNDARY
LINE PER SESSION LAWS OF
1913 AT PAGE 626
(CENTERLINE OF FORMER NEW MARKET ROAD
VACATED PER MIDDLESEX BOROUGH ORDINANCE #232,
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MUNICIPAL BOUNDARY
LINE PER SESSION LAWS OF
1913 AT PAGE 626
(CENTERLINE OF FORMER NEW MARKET ROAD
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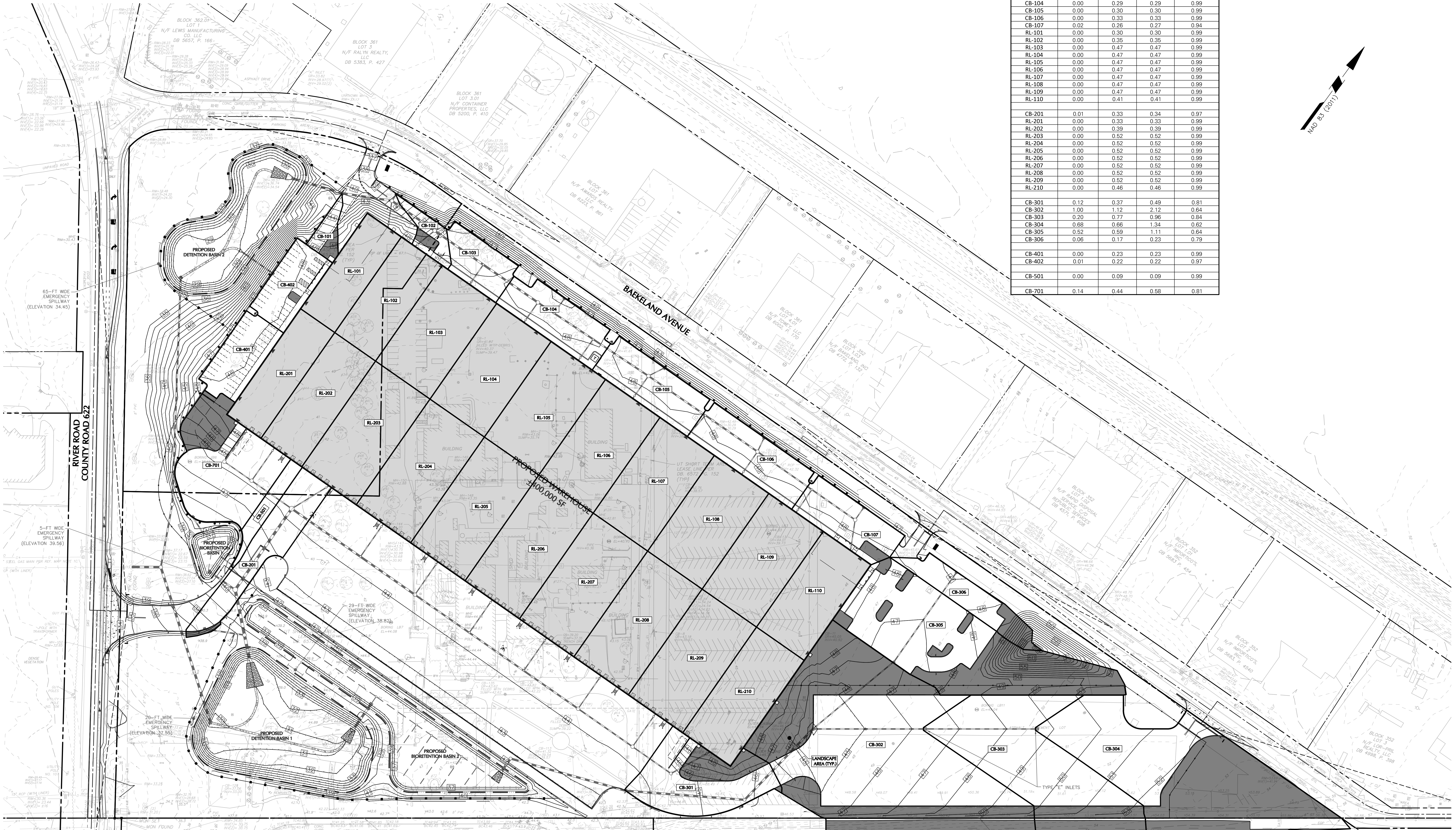
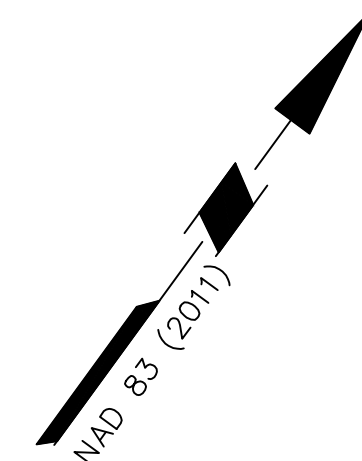
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Project
**MIDDLESEX
BOROUGH
WAREHOUSE PROJECT**
BLOCK No. 353, LOT No. 1.01 AND 1.02
BOROUGH OF MIDDLESEX
NEW JERSEY

Drawing Title
**PROPOSED
WATERSHED MAP**

Project No. 100594413	Drawing No. DA102
Date 3/25/2020	
Scale 1"=60'	
Drawn By SLK	Checked By MRW

Area Description	Landscape Area (AC) C=0.25	Impervious Area (AC) C=0.99	Total Area (AC)	Runoff Coefficient C (Weighted)
CB-101	0.02	0.05	0.07	0.76
CB-102	0.02	0.08	0.09	0.85
CB-103	0.00	0.18	0.18	0.99
CB-104	0.00	0.29	0.29	0.99
CB-105	0.00	0.30	0.30	0.99
CB-106	0.00	0.33	0.33	0.99
CB-107	0.02	0.26	0.27	0.94
RL-101	0.00	0.30	0.30	0.99
RL-102	0.00	0.35	0.35	0.99
RL-103	0.00	0.47	0.47	0.99
RL-104	0.00	0.47	0.47	0.99
RL-105	0.00	0.47	0.47	0.99
RL-106	0.00	0.47	0.47	0.99
RL-107	0.00	0.47	0.47	0.99
RL-108	0.00	0.47	0.47	0.99
RL-109	0.00	0.47	0.47	0.99
RL-110	0.00	0.41	0.41	0.99
CB-201	0.01	0.33	0.34	0.97
RL-201	0.00	0.33	0.33	0.99
RL-202	0.00	0.39	0.39	0.99
RL-203	0.00	0.52	0.52	0.99
RL-204	0.00	0.52	0.52	0.99
RL-205	0.00	0.52	0.52	0.99
RL-206	0.00	0.52	0.52	0.99
RL-207	0.00	0.52	0.52	0.99
RL-208	0.00	0.52	0.52	0.99
RL-209	0.00	0.52	0.52	0.99
RL-210	0.00	0.46	0.46	0.99
CB-301	0.12	0.37	0.49	0.81
CB-302	1.00	1.12	2.12	0.84
CB-303	0.20	0.77	0.96	0.84
CB-304	0.68	0.66	1.34	0.62
CB-305	0.52	0.59	1.11	0.64
CB-306	0.06	0.17	0.23	0.79
CB-401	0.00	0.23	0.23	0.99
CB-402	0.01	0.22	0.22	0.97
CB-501	0.00	0.09	0.09	0.99
CB-701	0.14	0.44	0.58	0.81



MUNICIPAL BOUNDARY LINE PER SESSION LAWS OF 1913 AT PAGE 626 (CENTERLINE OF FORMER NEW MARKET ROAD VACATED PER MIDDLESEX BOROUGH ORDINANCE #232, ADOPTED SEPTEMBER 14, 1955)

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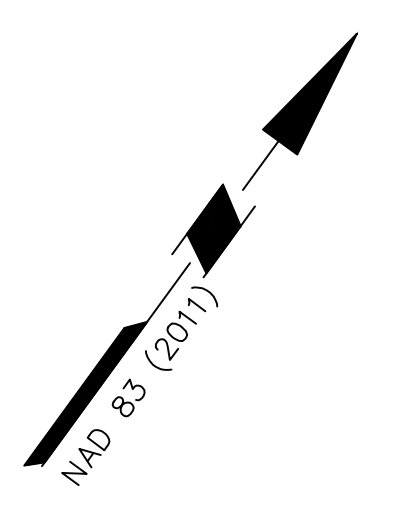
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 NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project **MIDDLESEX BOROUGH WAREHOUSE PROJECT**
 BLOCK No. 353, LOT No. 1.01 AND 1.02
 BOROUGH OF MIDDLESEX
 NEW JERSEY

Drawing Title **CATCHMENT AREA MAP**

Project No. **100594413**
 Date **3/25/2020**
 Scale **1"=60'**
 Drawn By **SLK** Checked By **MRW**
 Drawing No. **DA103**





LEGEND

- REQUIRED 80% TSS REMOVAL
- REQUIRED 50% TSS REMOVAL



MUNICIPAL BOUNDARY
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	Area of Treatment	TSS Removal Rate Required	Acreage-Removal Rate
Existing Pervious to Impervious	4.56 AC	80%	365.0
Existing Impervious to Impervious	4.69 AC	50%	234.3
TOTAL	9.25 AC	--	599.3
		Average TSS Removal Required	64.8%



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Project
**MIDDLESEX
BOROUGH
WAREHOUSE PROJECT**
BLOCK No. 353, LOT No. 1.01 AND 1.02
BOROUGH OF MIDDLESEX
MIDDLESEX COUNTY NEW JERSEY

Drawing Title
**TSS REMOVAL
REQUIRED**

Project No.
100594413

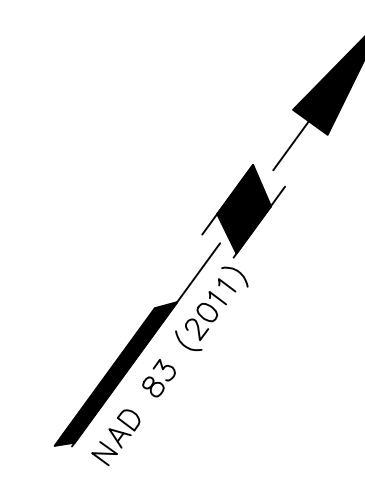
Date
3/25/2020

Scale
1"=60'

Drawn By
SLK

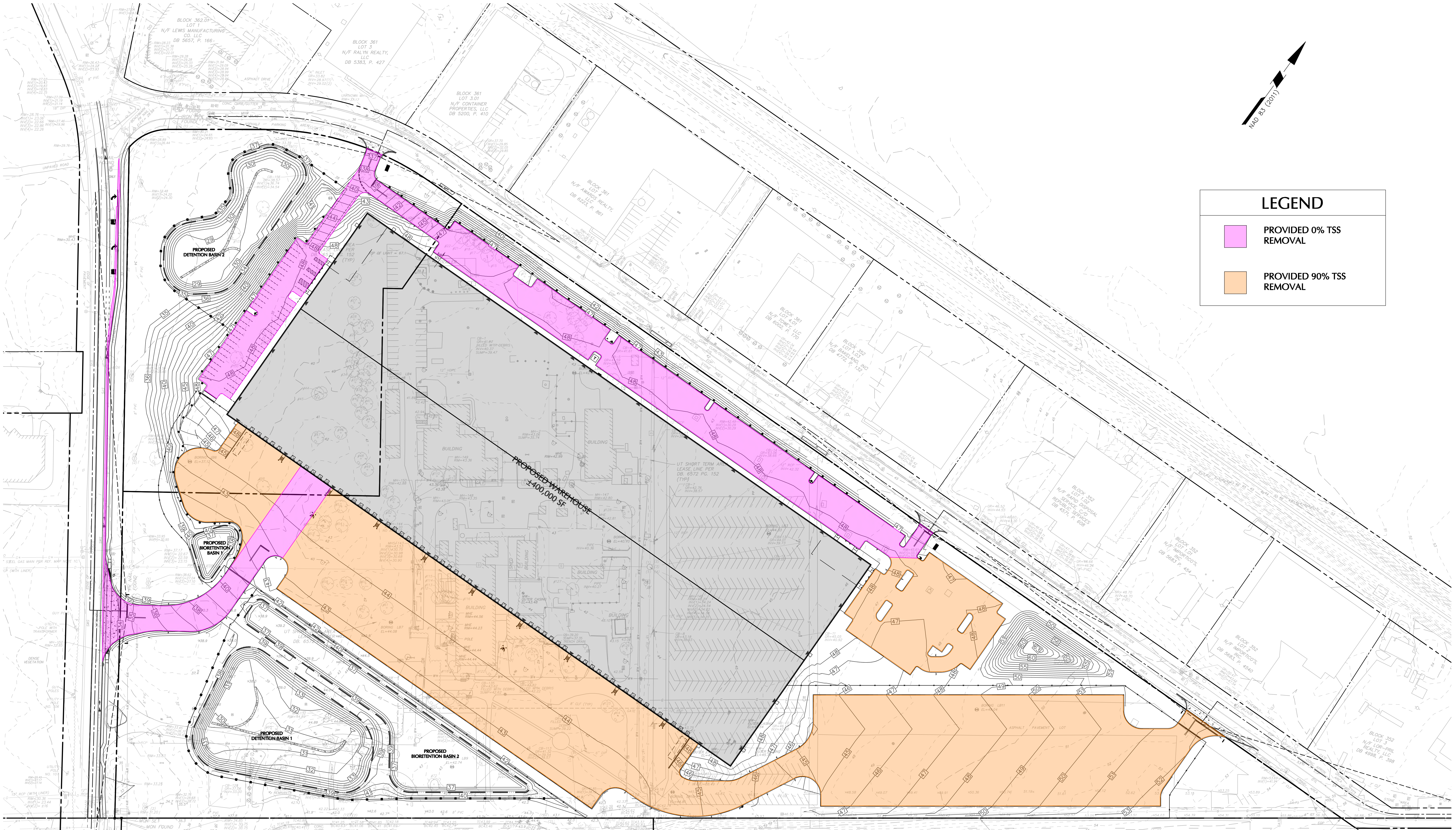
Checked By
MRW

Drawing No.
DA104



LEGEND

- PROVIDED 0% TSS REMOVAL
- PROVIDED 90% TSS REMOVAL



MUNICIPAL BOUNDARY
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	Area of Treatment	BMP Method	TSS Removal Rate	Acreage-Removal Rate
	2.38 AC	---	0%	0.0
	6.87 AC	Bioretention	90%	617.9
TOTAL	9.25 AC		Total Acreage-Removal Rate	617.9
			Average TSS Removal Provided	66.8%
			Average TSS Removal Required	64.8%



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Project **MIDDLESEX BOROUGH WAREHOUSE PROJECT**
BLOCK No. 353, LOT No. 1.01 AND 1.02
BOROUGH OF MIDDLESEX
MIDDLESEX COUNTY NEW JERSEY

Drawing Title **TSS REMOVAL PROVIDED**

Project No. **100594413**
Date **3/25/2020**
Scale **1"=60'**
Drawn By **SLK** Checked By **MRW**
Drawing No. **DA105**