


- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. THE CONTRACTOR SHALL DEMOLISH ALL BUILDINGS, PAVEMENT, ETC WHERE INDICATED WITHIN THE LIMIT OF DISTURBANCE. EDGES OF PAVEMENT DEMOLITION SHALL BE SAW CUT. DEMOLISHED CONCRETE AND ASPHALT SHALL BE CRUSHED TO THE DIMENSIONS INDICATED IN THE PROJECT GEOTECHNICAL REPORT AND STOCKPILED FOR REUSE AS SITE FILL. ALL DEMOLITION AND MATERIAL REUSE SHALL BE IN ACCORDANCE WITH ENVIRONMENTAL REQUIREMENTS FOR THE SITE.
 4. THE CONTRACTOR MUST ACCEPT THE SITE AS IS AND SHALL BE DEEMED TO HAVE INSPECTED THE SITE AND REVIEWED ALL CONTRACT DOCUMENTS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL INSPECT THE SITE THOROUGHLY AND FIELD VERIFY THE LOCATION AND DEPTH OF ALL APPLICABLE EXISTING UTILITIES. SOME UNDERGROUND UTILITIES MAY BE LOCATED DIFFERENT THAN SHOWN ON THIS PLAN. ALL CONTRACTORS USING THESE PLANS FOR DEMOLITION OR CONSTRUCTION SHALL CONFIRM ALL UTILITIES IN THE FIELD TO ESTABLISH LOCATIONS, SIZES, MATERIALS, AND ELEVATIONS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CONSTRUCTION MANAGER. CONTRACTOR SHALL PROTECT AND MAINTAIN UTILITIES AS NOTED.
 5. THE CONTRACTOR SHALL CARRY OUT THE WORK OF THIS CONTRACT PLACING THE SAFETY AND PROTECTION OF THE SURROUNDING COMMUNITY AND PROPERTY AT THE HIGHEST PRIORITY. THE CONTRACTOR SHALL ENSURE FREE AND SAFE PASSAGE OF PERSONS AROUND THE AREA OF THE DEMOLITION AS DIRECTED BY THE GOVERNING AGENCIES AND THE OWNER. ALL OPERATIONS SHALL BE CONDUCTED SO AS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS, BOTH PEDESTRIAN AND WORKERS ALIKE. THE CONSULTANT DOES NOT HAVE THE RIGHT TO STOP DEMOLITION ACTIVITIES. SUCH DIRECTION MUST COME FROM THE OWNER.
 6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION SIGNAGE AND ASSOCIATED TRAFFIC MEASURES. THE CONTRACTOR SHALL FOLLOW THE WORK ZONE SAFETY GUIDELINES FOR CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS REQUIRED BY GLOUCESTER COUNTY.
 7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE SECURITY OF THE PROJECT SITE AT ALL TIMES.
 8. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UTILITIES, WHETHER SHOWN OR NOT ON THE CONTRACT DRAWING, AND SHALL ABANDON, REMOVE, OR PROTECT THE UTILITIES AS INDICATED HEREON OR AS DIRECTED BY THE OWNER, THE CONSULTANT, OR INTERESTED UTILITY COMPANY.
 9. THE CONTRACTOR SHALL VERIFY THAT A SOIL EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN OBTAINED FOR DEMOLITION ACTIVITIES. CONTRACTOR SHALL COMPLY WITH THE CONDITIONS THEREON BY INSTALLING AND MAINTAINING ALL SESC MEASURES AND MAKING THE REQUIRED NOTIFICATIONS.
 10. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONTENTS OF THE BUILDINGS TO BE DEMOLISHED INCLUDING, BUT NOT NECESSARILY LIMITED TO, FURNISHINGS, MECHANICAL EQUIPMENT, RESERVOIR TANKS, PLUMBING FIXTURES, FURNITURE, CABINETS, ETC. IN ACCORDANCE WITH ENVIRONMENTAL REQUIREMENTS FOR THE SITE.
 11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THAT THE UTILITY SERVICES TO BE DEMOLISHED WILL NOT AFFECT OTHER SERVICES OUTSIDE THE CONTRACT LIMIT.
 12. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL DISCONNECT AND CAP/TERMINATE AT THE UTILITY MAIN ALL BUILDING SERVICES, E.G. WATER, SEWER, GAS, ELECTRIC, TELEPHONE, ETC. (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH ALL LOCAL REGULATION AND UTILITY COMPANY REQUIREMENTS. THIS WORK SHALL INCLUDE COORDINATION WITH UTILITY COMPANIES AND OBTAINING AND PAYING FEES FOR ALL STREET AND SIDEWALK OPENING PERMITS.
 13. THE CONTRACTOR SHALL DEMOLISH AND REMOVE THE BUILDINGS WHERE INDICATED, INCLUDING ALL FLOOR SLABS, PITS, WALLS, FOOTINGS, GRADE BEAMS, COLUMNS, UTILITIES ETC. ALL VOIDS REMAINING FROM THE REMOVAL OF SUBSURFACE ELEMENTS SHALL BE BACKFILLED WITH COMPACTED MATERIAL AS PER THE FINAL GEOTECHNICAL ENGINEERING REPORT.
 14. ALL EXISTING SITE ELEMENTS SLATED FOR DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING, BUT NOT LIMITED TO, ASPHALT, BUSHES, TREES, PLANTERS, ETC. WITHIN THE CONTRACT LIMITS UNLESS OTHERWISE NOTED.
 15. CONTRACTOR TO VERIFY THAT ALL ENVIRONMENTAL CONCERNS (ASBESTOS, LEAD BASED PAINT, HAZMAT MATERIALS, UNDERGROUND STORAGE TANKS, TRANSFORMERS, ETC.) HAVE BEEN REMOVED PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. THESE POTENTIAL CONCERNS ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORTS AND DOCUMENTS FOR ENVIRONMENTAL CONCERN LOCATIONS AND DISPOSAL PROCEDURES.
 16. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT RIGHT-OF-WAYS AND ADJACENT PROPERTIES CLEAN DURING DEMOLITION.
 17. CONTRACTOR SHALL STOCKPILE REMOVED ASPHALT AND CONCRETE IN SEPARATE PILES. REMOVED MATERIAL MAY BE REUSED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND ENVIRONMENTAL REQUIREMENTS.
 18. CONTRACTOR TO PROVIDE DUST CONTROL MEASURES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
 19. CONTRACTOR TO WASH TRUCK TIRES BEFORE EXITING THE CONSTRUCTION SITE.
 20. EXISTING IRRIGATION WELLS ONSITE SHALL BE DECOMMISSIONED BY NJ LICENSED WELL DRILLER.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS


09-21-2020

SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No.
24GE04459300

LANGAN
Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

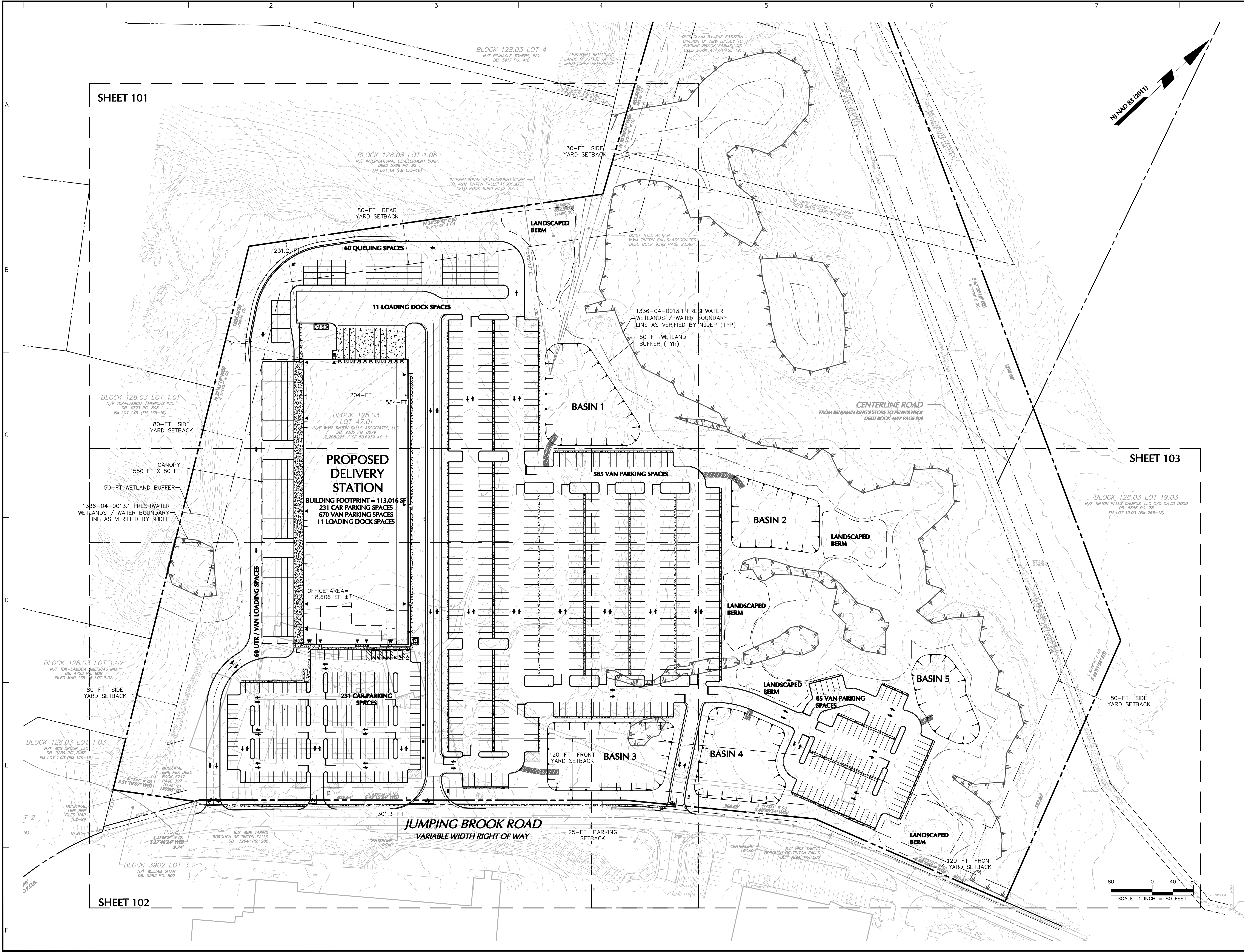
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY

Drawing Title

DEMOLITION PLAN

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CD100 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet | 2 of 50 |



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL CURBS TO BE 6 INCHES UNLESS OTHERWISE SPECIFIED.
 4. ALL CURB RADII ARE 4.5 FEET UNLESS OTHERWISE SPECIFIED.
 5. REFER TO ARCHITECTURAL FOR DETAILED BUILDING DIMENSIONS.
 6. ALL REGULATORY SIGNS AND TRAFFIC MARKINGS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 7. THE SIZE AND SHAPES OF THE PROPOSED BERMS ARE SCHEMATICALLY SHOWN AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020

SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

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Langan Engineering, Environmental, Surveying,
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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

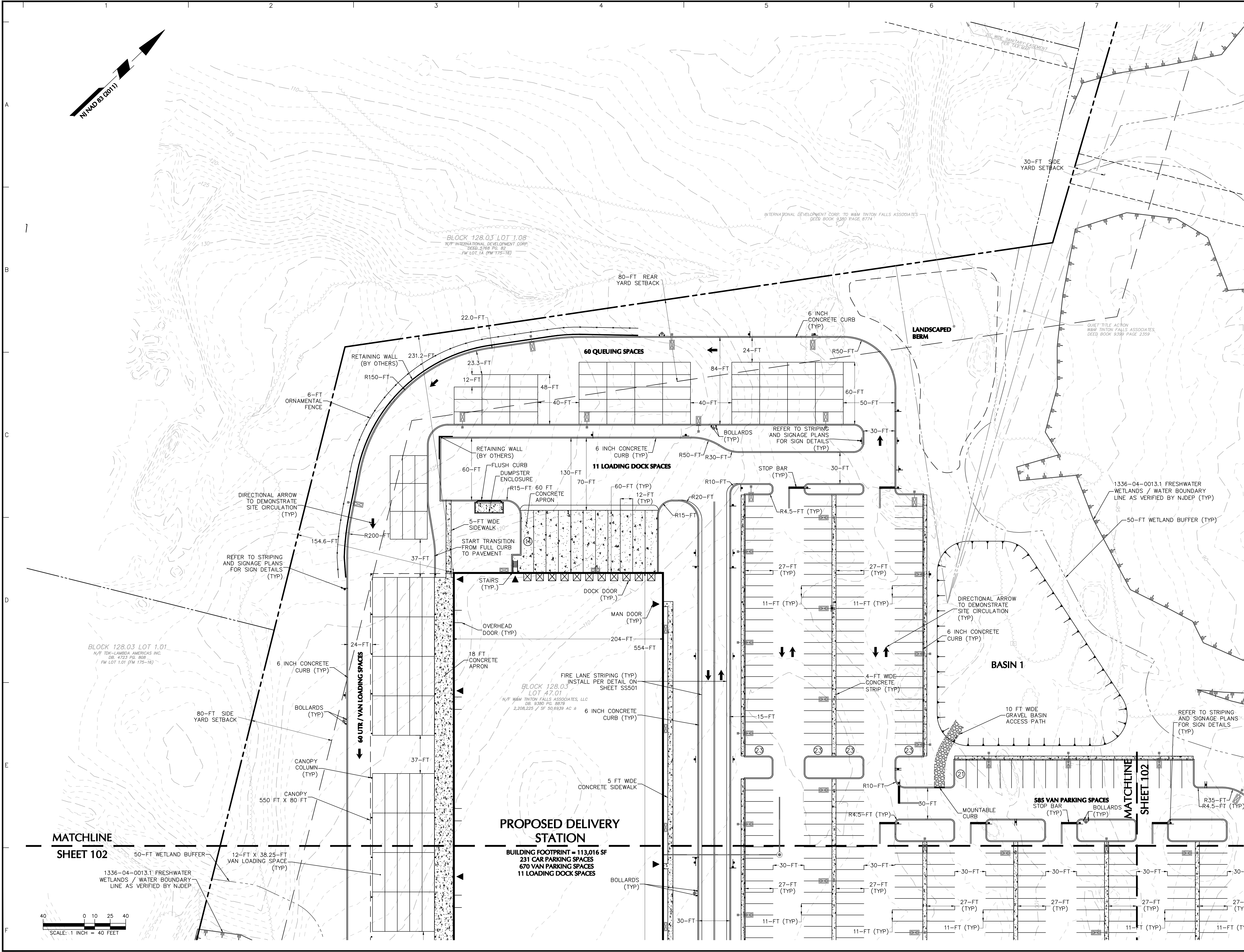
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

OVERALL SITE PLAN

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CS100 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet | 3 of 50 |



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL CURBS TO BE 6 INCHES UNLESS OTHERWISE SPECIFIED.
 4. ALL CURB RADII ARE 4.5 FEET UNLESS OTHERWISE SPECIFIED.
 5. REFER TO ARCHITECTURAL FOR DETAILED BUILDING DIMENSIONS.
 6. ALL REGULATORY SIGNS AND TRAFFIC MARKINGS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 7. THE SIZE AND SHAPES OF THE PROPOSED BERMS ARE SCHEMATICALLY SHOWN AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
|---------|-----------------------|-----|
| Date | Description | No. |

REVISIONS

| | |
|--|--|
|  | 09-21-2020 |
| SIGNATURE | DATE SIGNED |
| RICHARD BURROW | PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 |
| LANGAN | |
| Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. | |
| 300 Kimball Drive Parsippany, NJ 07054 | |
| T: 973.560.4900 F: 973.560.4901 www.langan.com | |
| NJ CERTIFICATE OF AUTHORIZATION No. 24GA2798400 | |

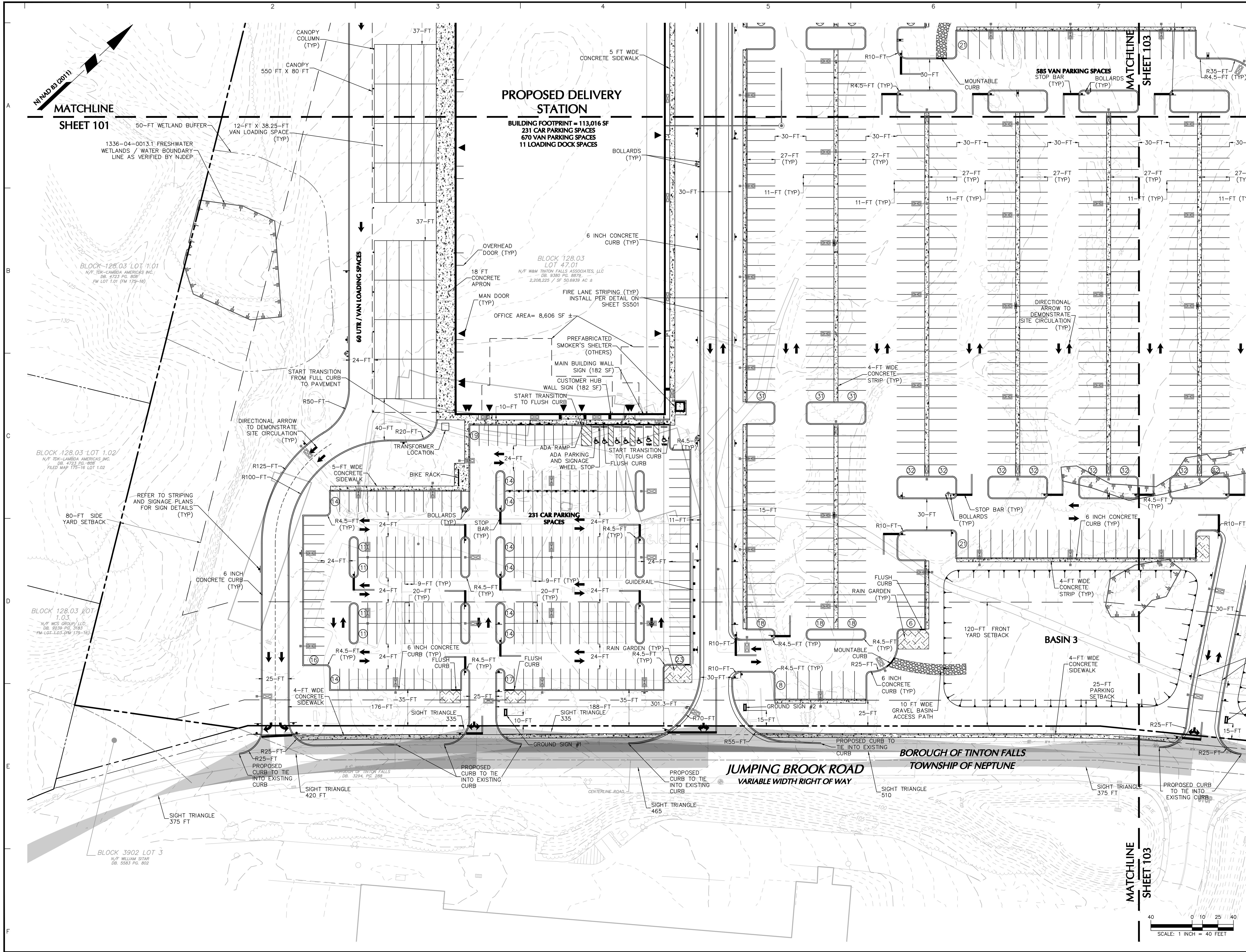
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY
Drawing Title

PARTIAL SITE PLAN

1

| Project No. | Drawing No. |
|---------------|-------------|
| 100775501 | CS101 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet 4 of 50 | |



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL CURBS TO BE 6 INCHES UNLESS OTHERWISE SPECIFIED.
 4. ALL CURB RADII ARE 4.5 FEET UNLESS OTHERWISE SPECIFIED.
 5. REFER TO ARCHITECTURAL FOR DETAILED BUILDING DIMENSIONS.
 6. ALL REGULATORY SIGNS AND TRAFFIC MARKINGS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 7. THE SIZE AND SHAPES OF THE PROPOSED BERMS ARE SCHEMATICALLY SHOWN AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

[Signature] 09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 243E04459300

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

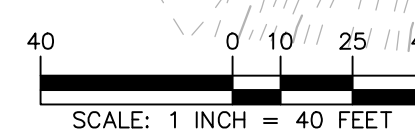
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

PARTIAL SITE PLAN
2

| | |
|-------------|--------------|
| Project No. | Drawing No. |
| 100775501 | CS102 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |

Sheet 5 of 50





- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128/3, LOTS 47 THROUGH 99 ARE BASED ON "ALTA/NGPS LAND TITLE SURVEY" DATED 05/20/2014 PREPARED BY LEUEAN ENGINEERING, INC. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH-AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL CURBS TO BE 6 INCHES UNLESS OTHERWISE SPECIFIED.
 4. ALL 15' CURB RADII ARE 4.5 FEET UNLESS OTHERWISE SPECIFIED.
 5. REFER TO ARCHITECTURAL FOR DETAILED BUILDING DIMENSIONS.
 6. ALL REGULATORY SIGNS AND TRAFFIC MARKINGS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 7. THE SIZE AND SHAPES OF THE PROPOSED BERMS ARE SUBSTANTIALLY SHOWN AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

| | | |
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020

SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No.
24GE04459300

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Projec

1251 JUMPING
BROOK ROAD

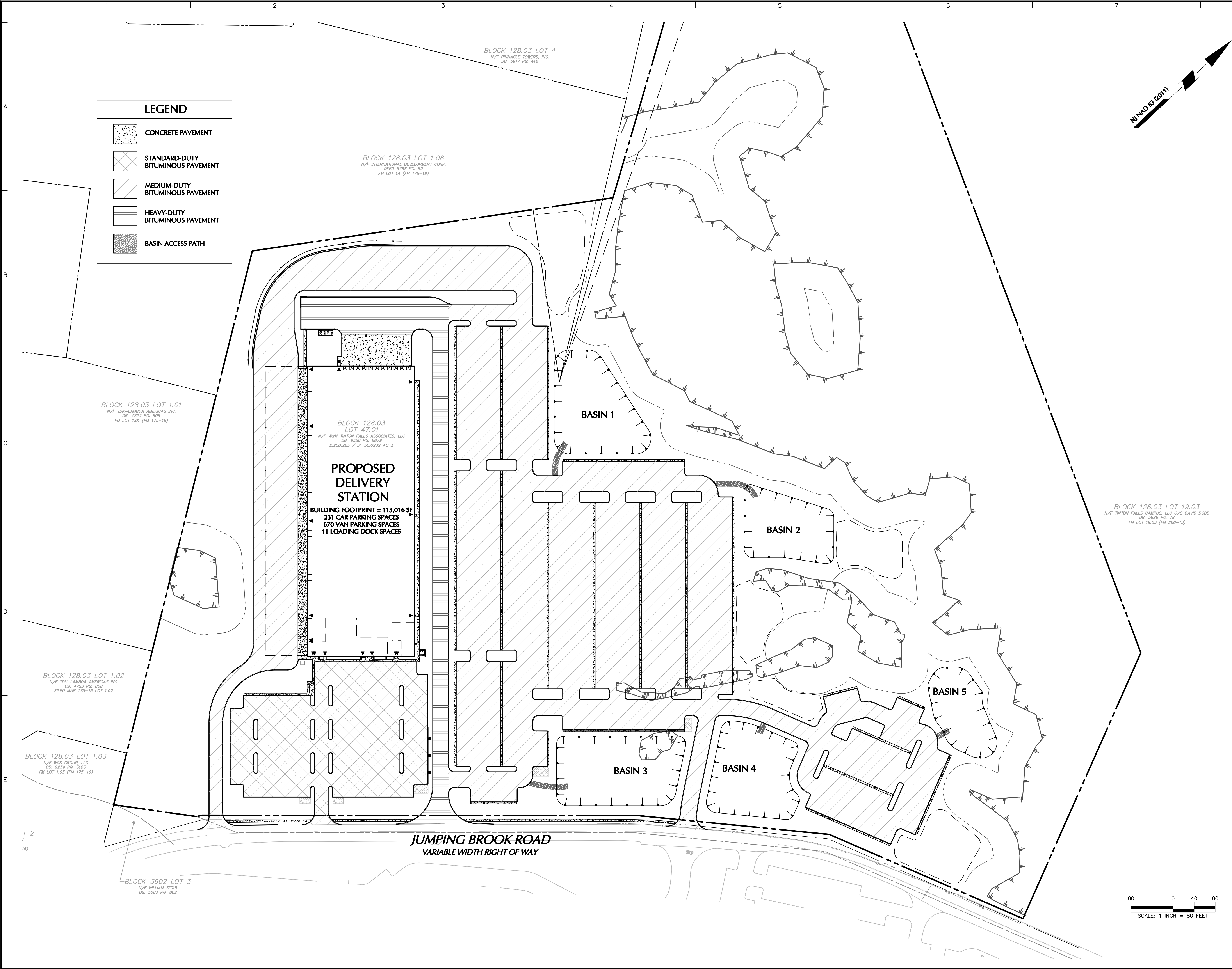
**BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47**

| | |
|------------------------|-------------------|
| MONMOUTH COUNTY | NEW JERSEY |
| Drawing Title | |

PARTIAL SITE PLAN

3


| | |
|-------------------|----------------------|
| Project No. | Drawing No. |
| 100775501 | |
| Date | |
| 06/25/2020 | |
| Drawn By | CS103 |
| RY | |
| Checked By | |
| RB | Sheet 6 of 50 |



NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. REFER TO DRAWING CS501 FOR PAVEMENT SECTIONS.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS



09-21-2020

SIGNATURE

RICHARD BURROW

DATE SIGNED

PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

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Langan Engineering, Environmental, Surveying,
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Parsippany, NJ 07054

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

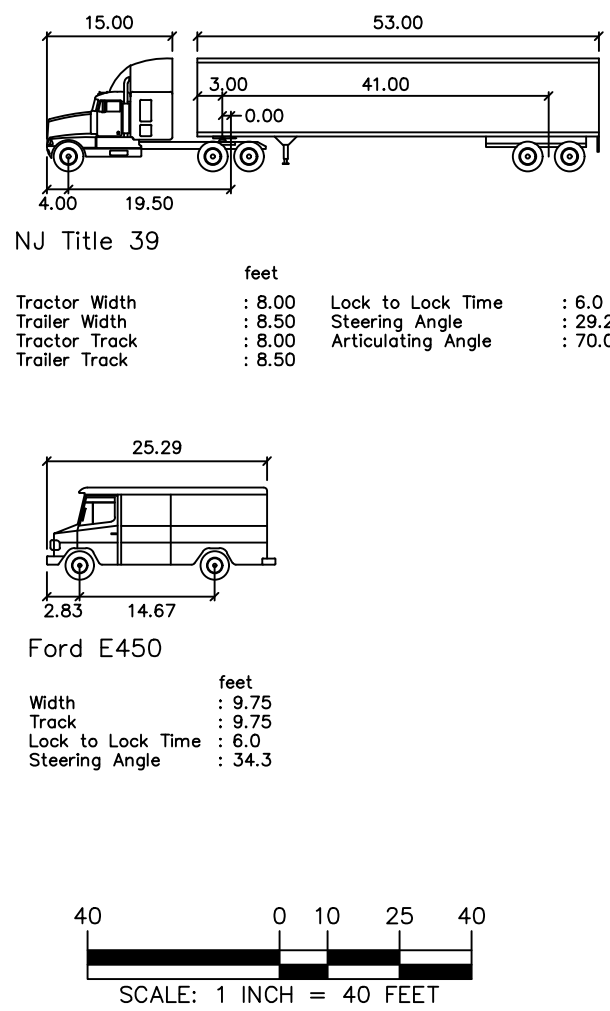
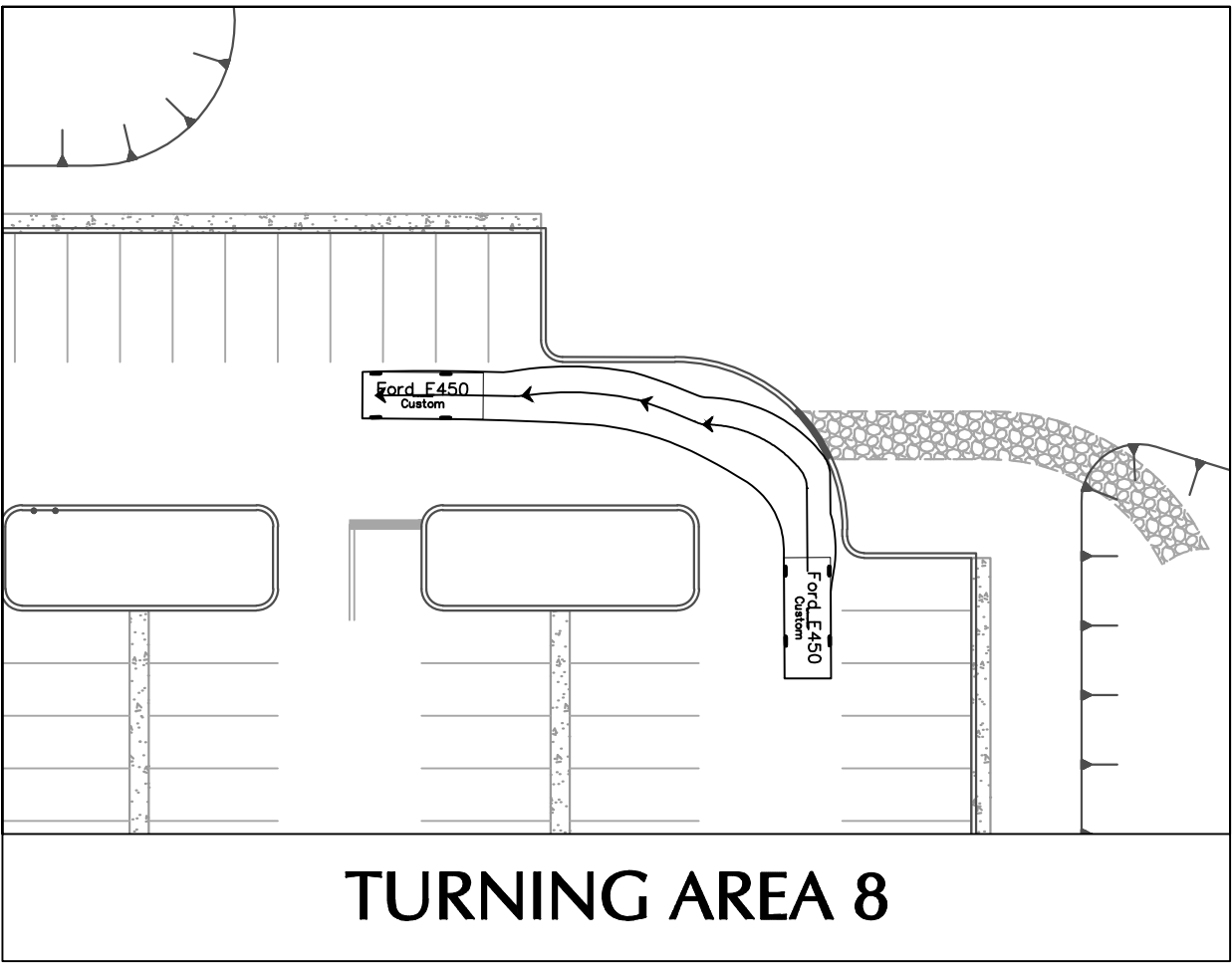
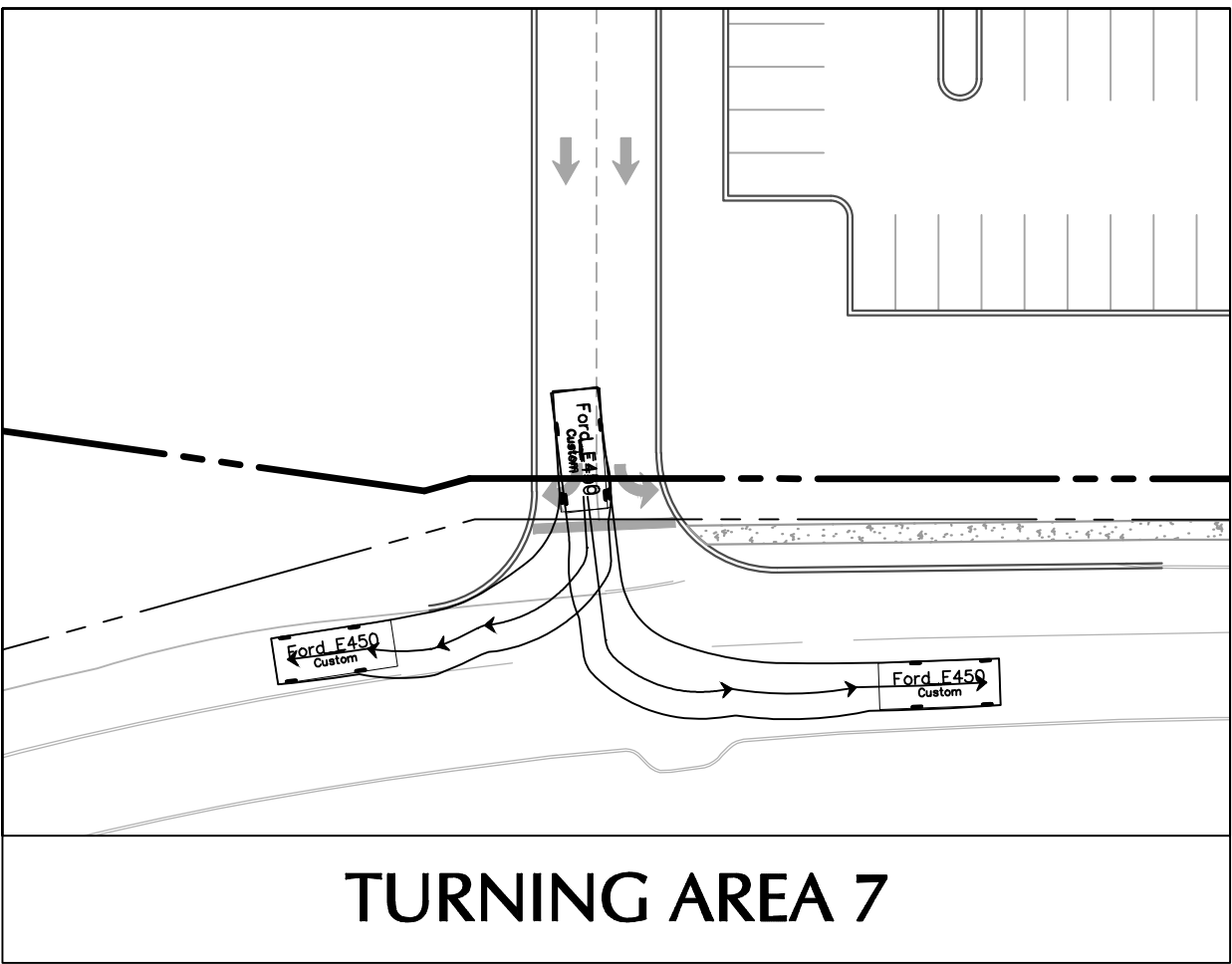
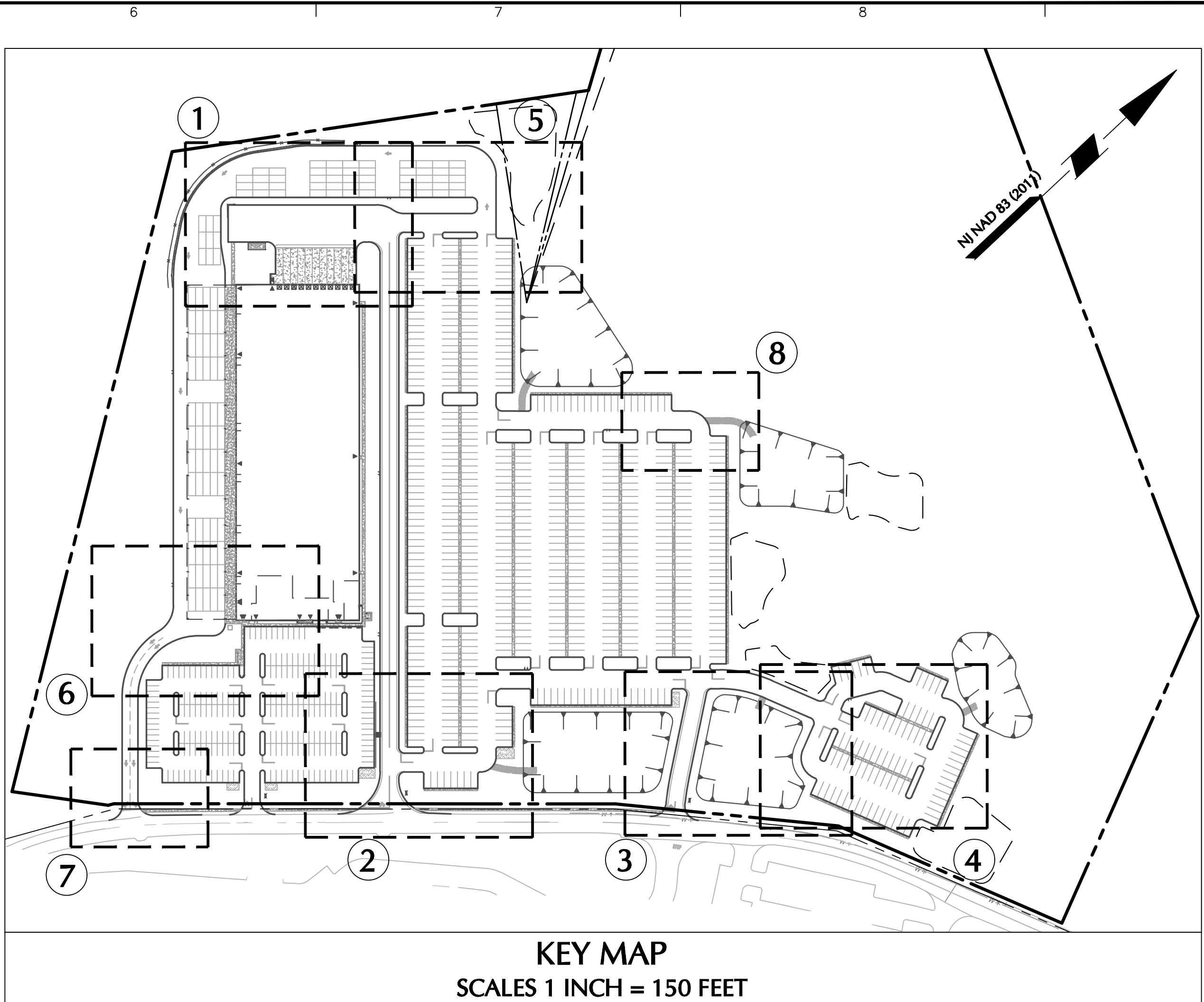
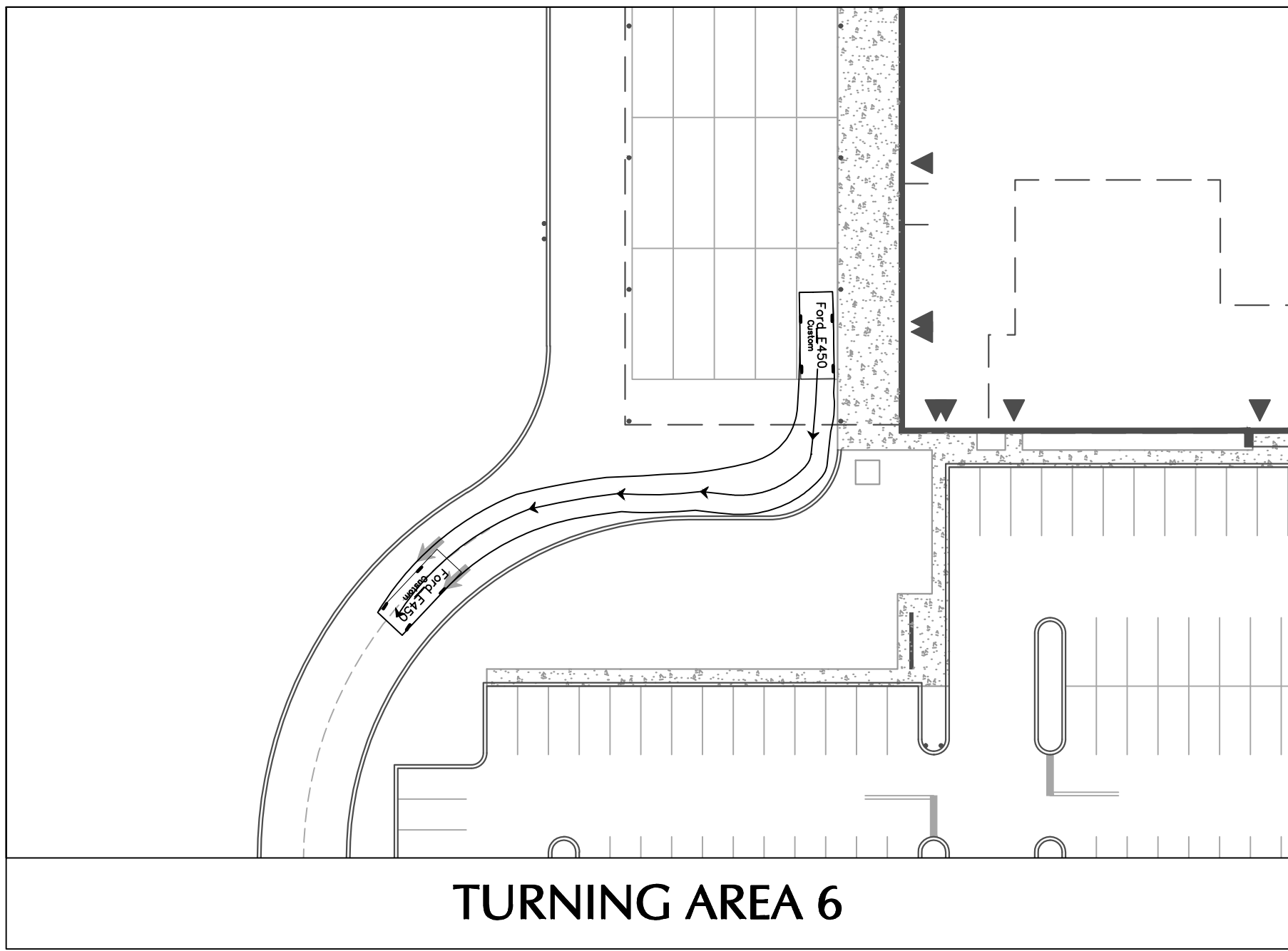
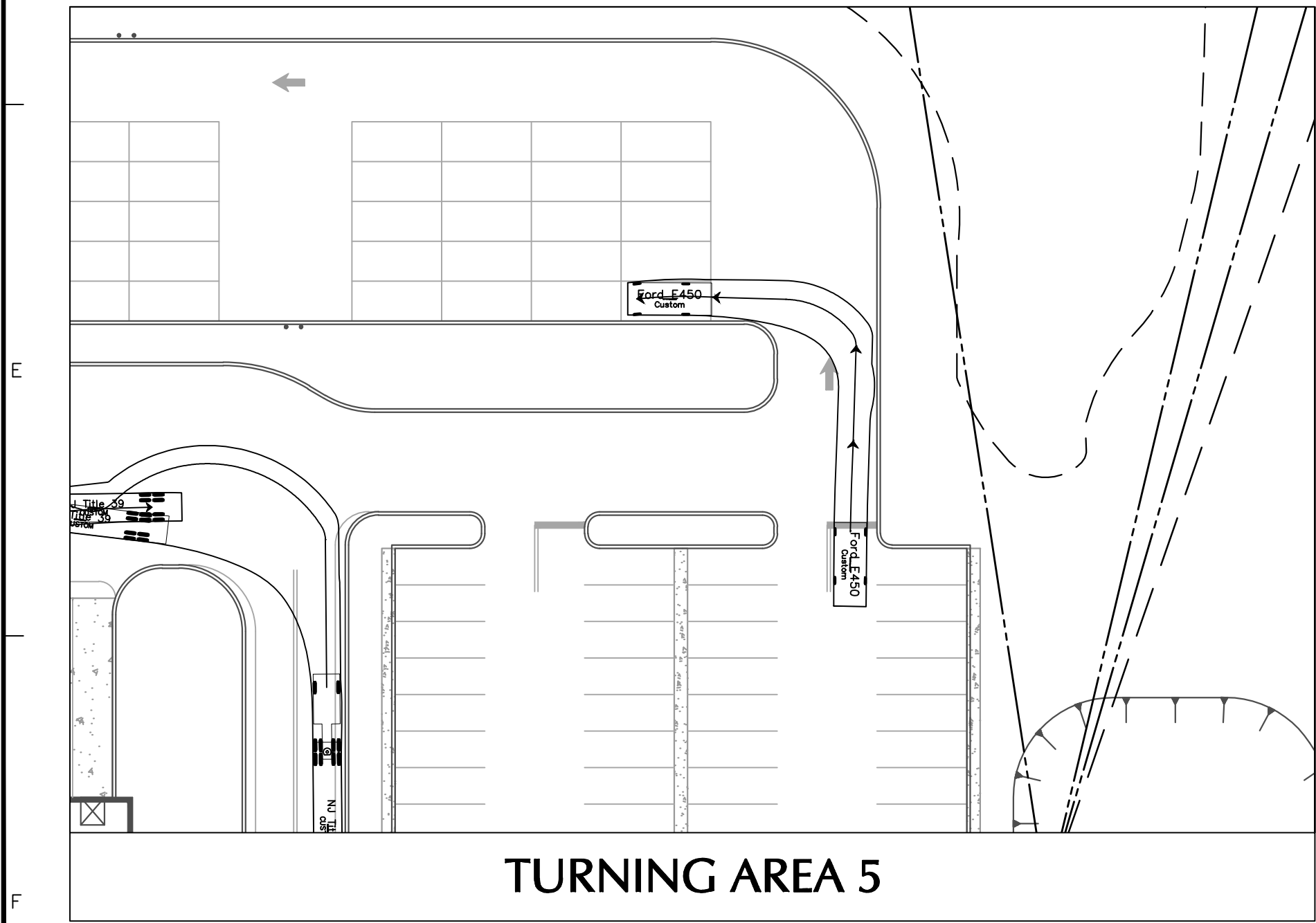
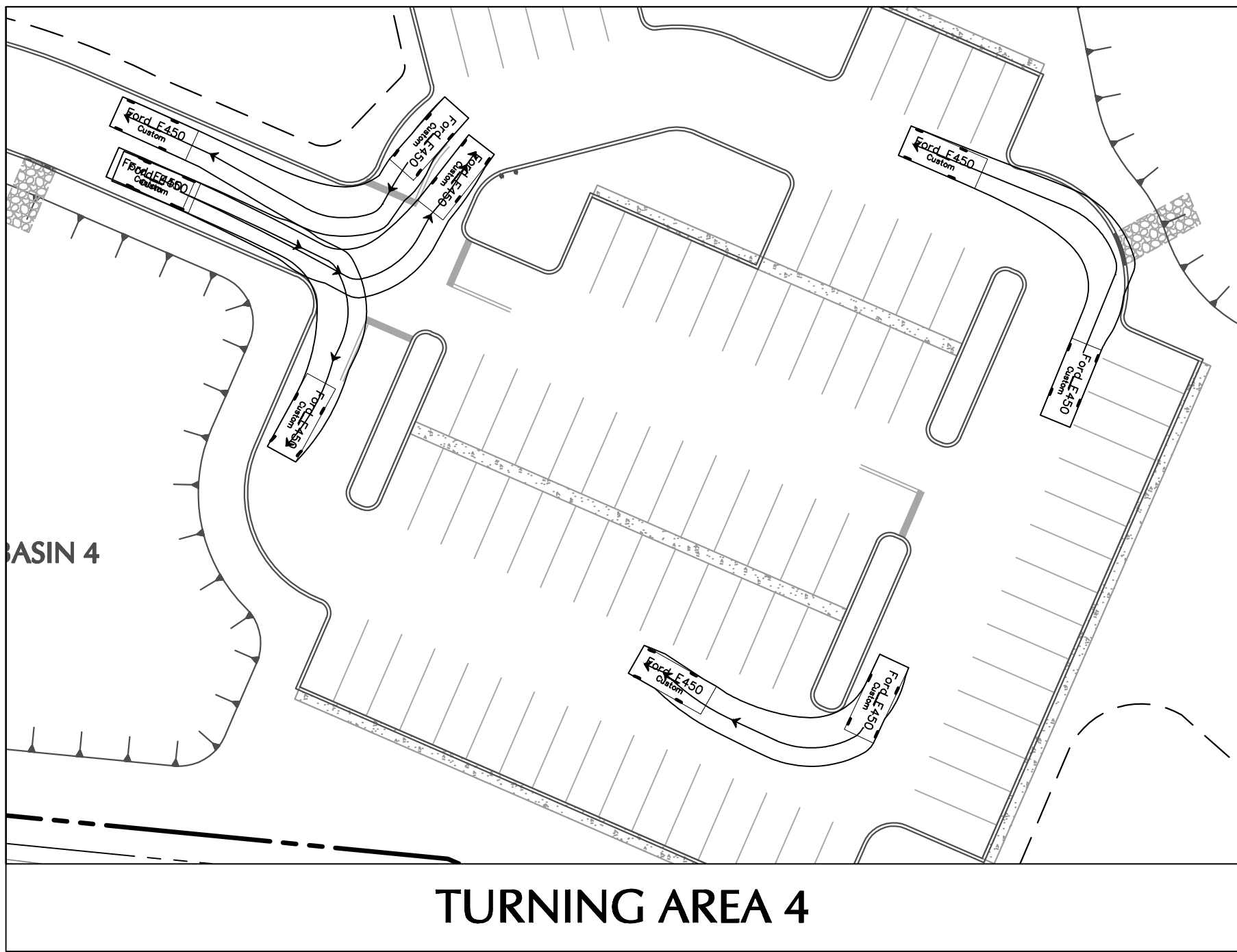
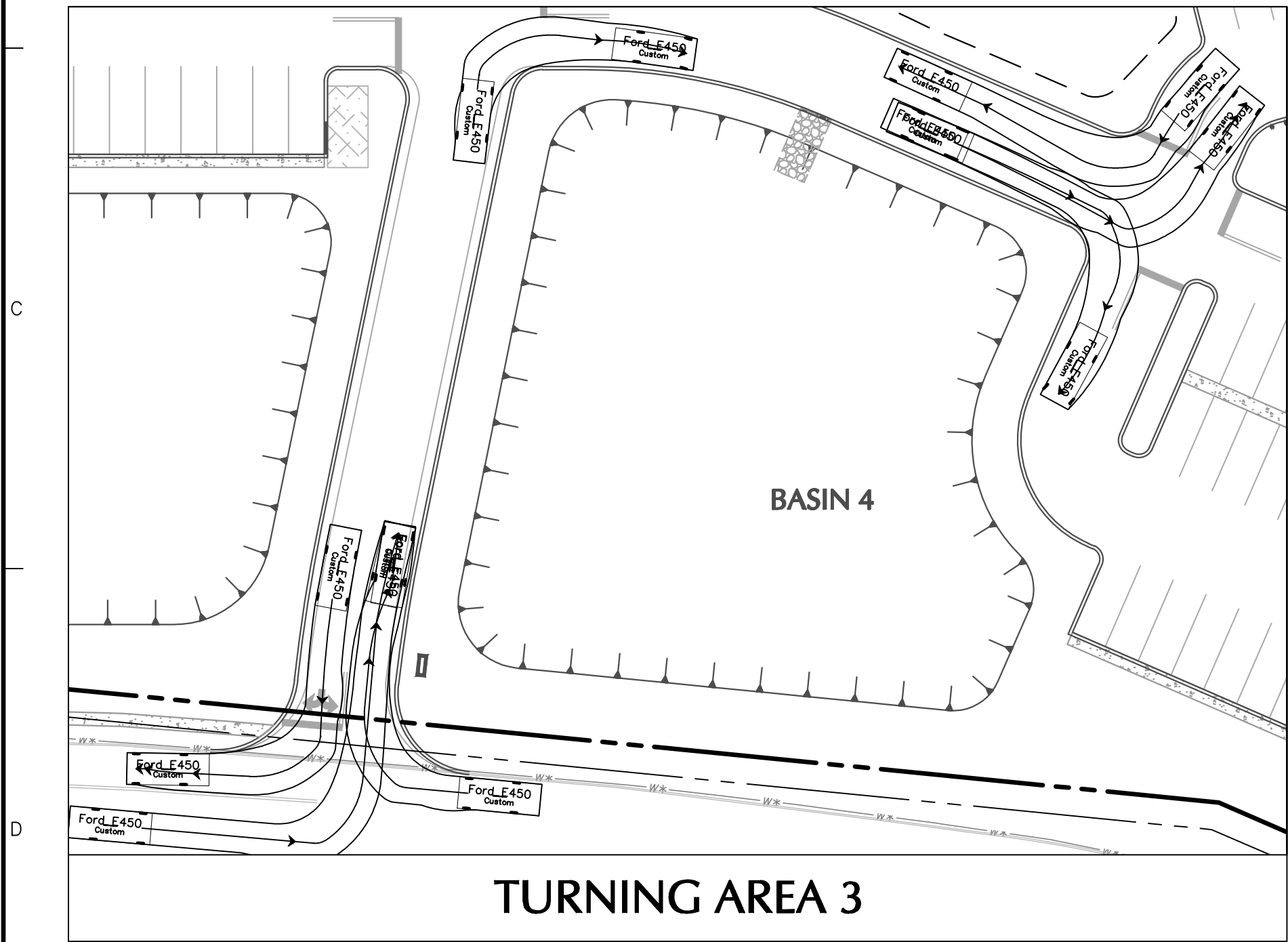
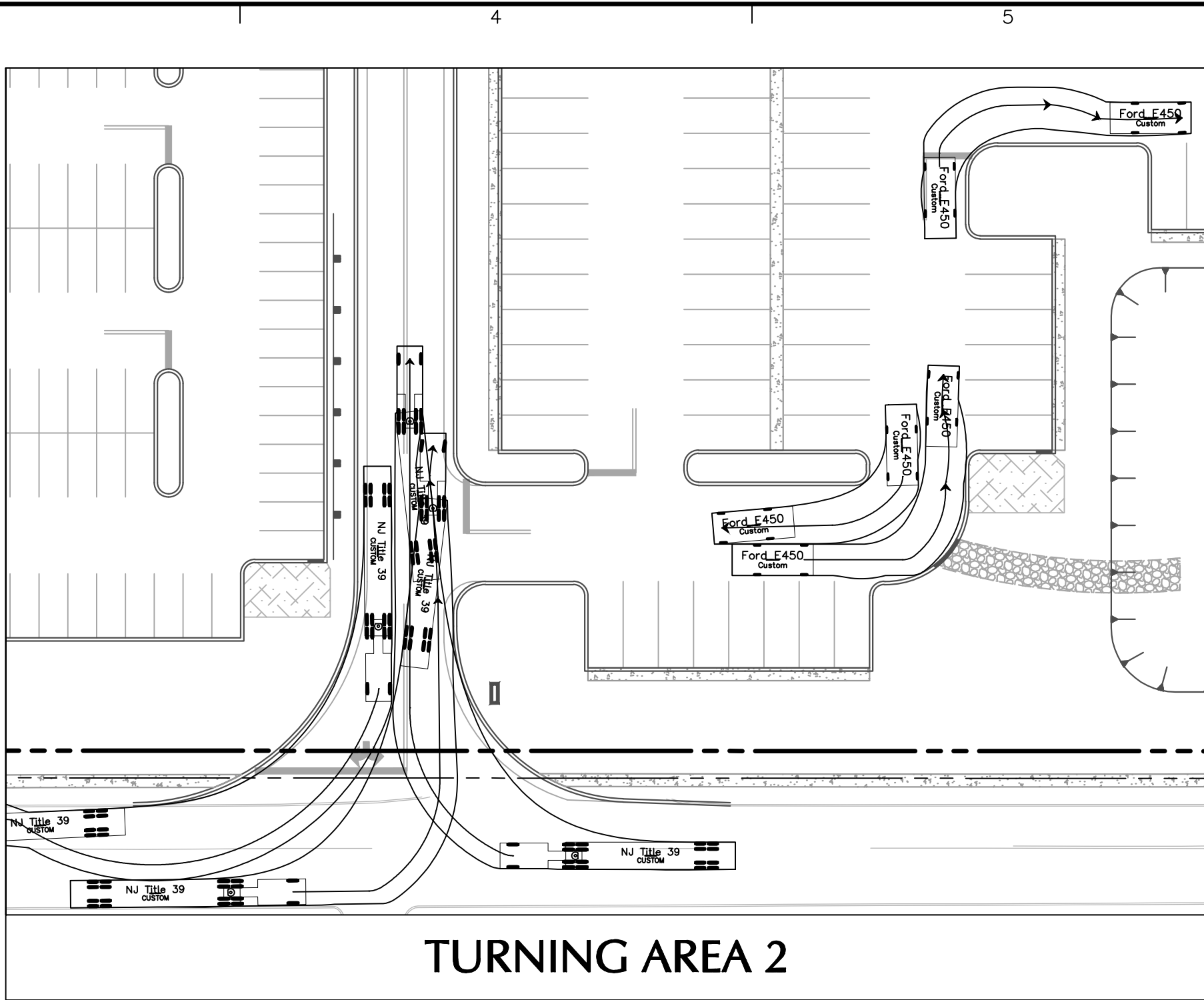
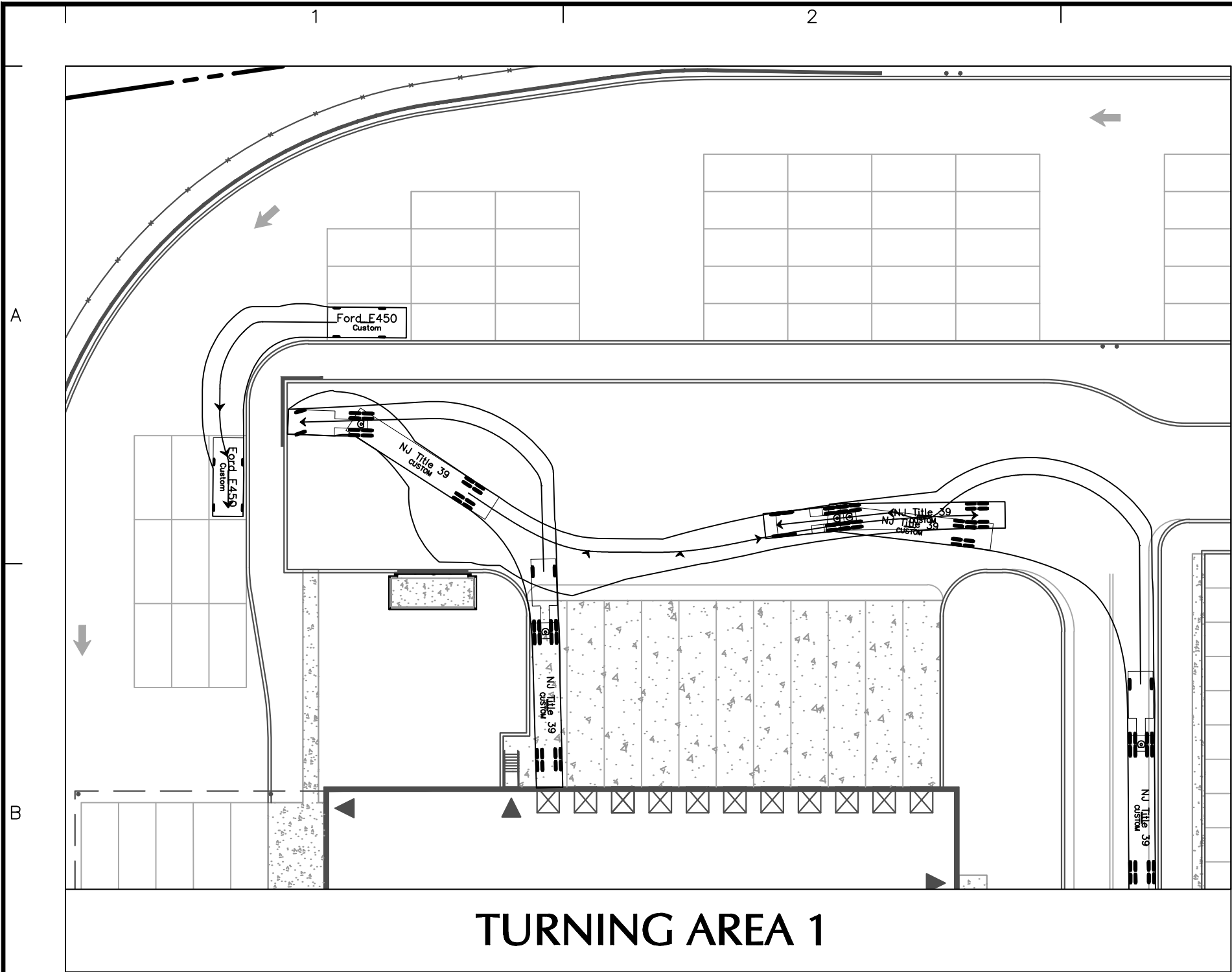
1251 JUMPING
BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47


MONMOUTH COUNTY NEW JERSEY
Drawing Title

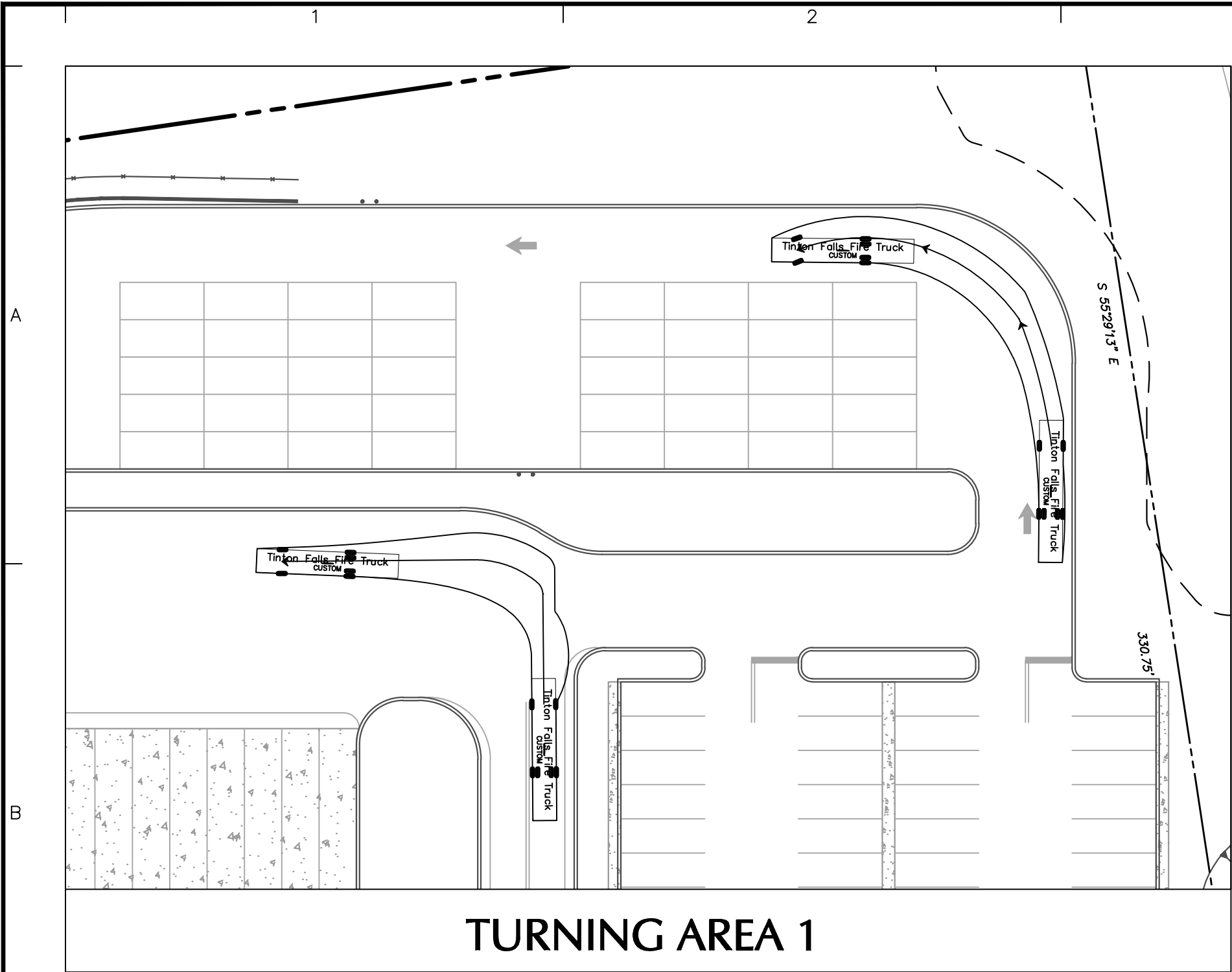
PAVEMENT PLAN

| | |
|-------------|---------------|
| Project No. | Drawing No. |
| 100775501 | CS110 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | Sheet 7 of 50 |
| Checked By | |
| RB | |

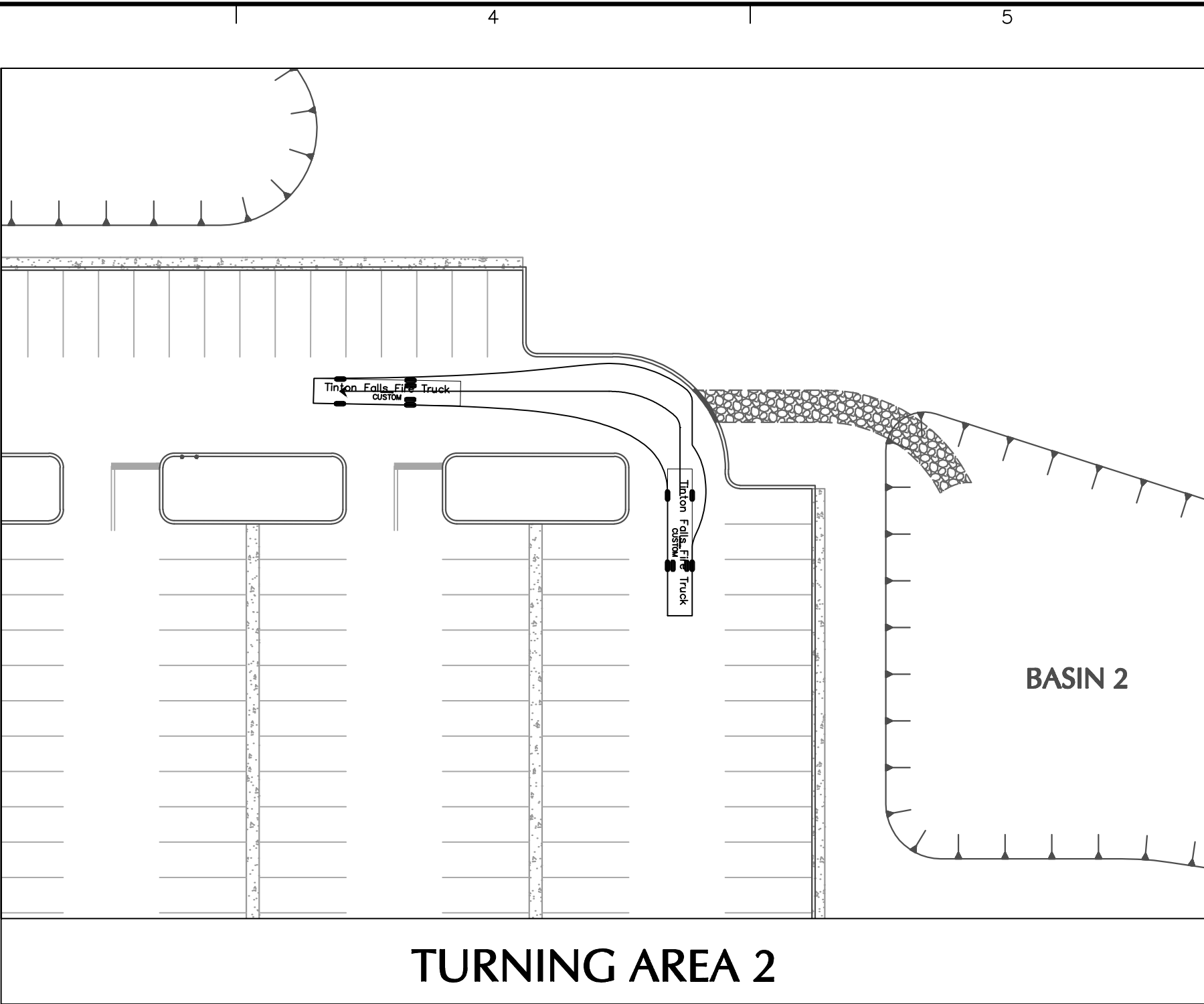




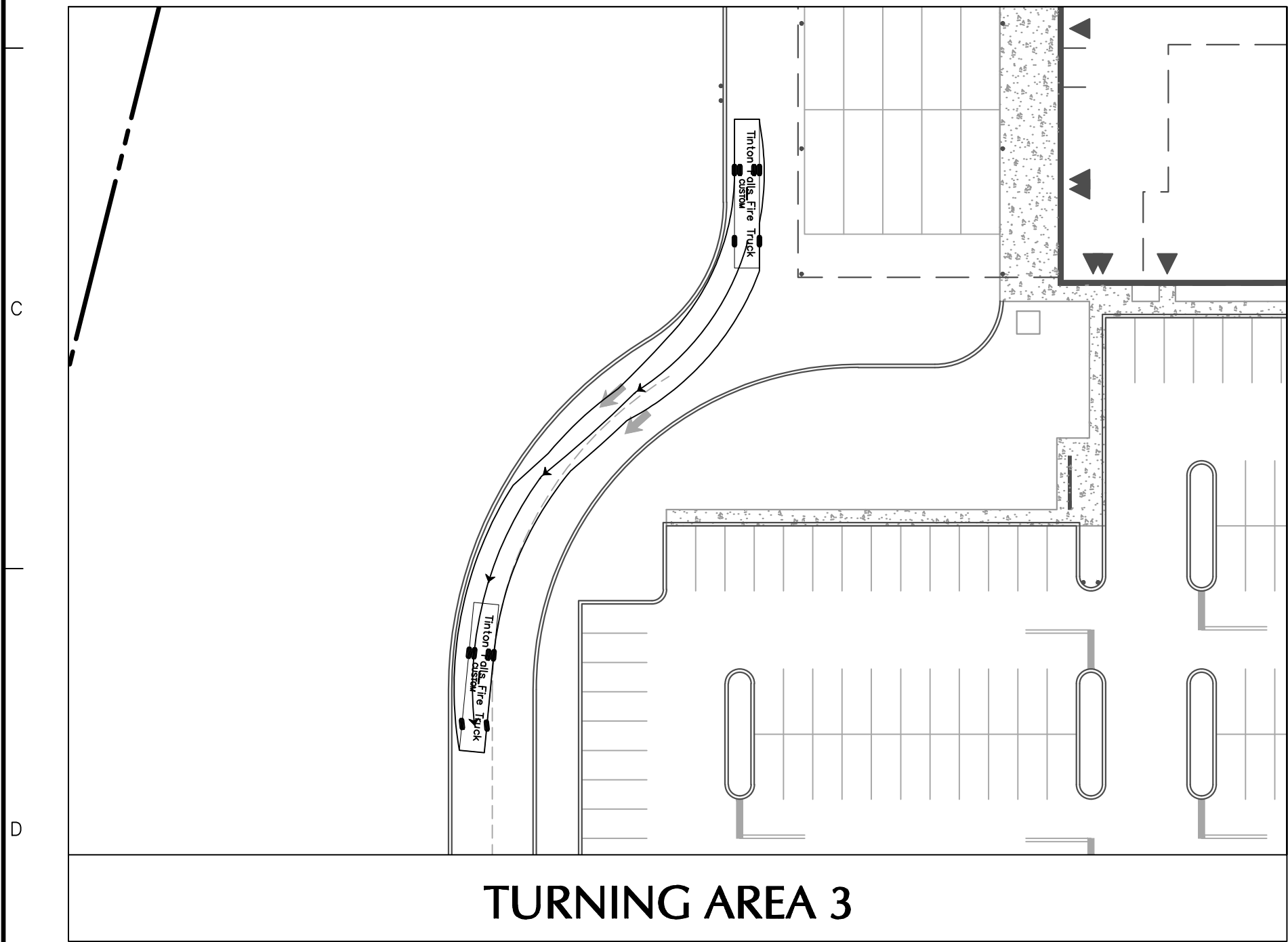
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |
| REVISIONS | | |
|  | | |
| SIGNATURE | | DATE SIGNED |
| RICHARD BURROW | | 09-21-2020 |
| PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 | | |
| LANGAN | | |
| Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 | | |
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| Project | | |
| 1251 JUMPING BROOK ROAD BOROUGH OF TINTON FALLS BLOCK 128.03, LOT 47 | | |
| MONMOUTH COUNTY NEW JERSEY | | |
| Drawing Title | | |
| SITE CIRCULATION PLAN | | |
| Project No. | | Drawing No. |
| 100775501 | | CS701 |
| Date | | |
| 06/25/2020 | | |
| Drawn By | | |
| RY | | |
| Checked By | | |
| RB | | |
| Sheet | | 8 of 50 |



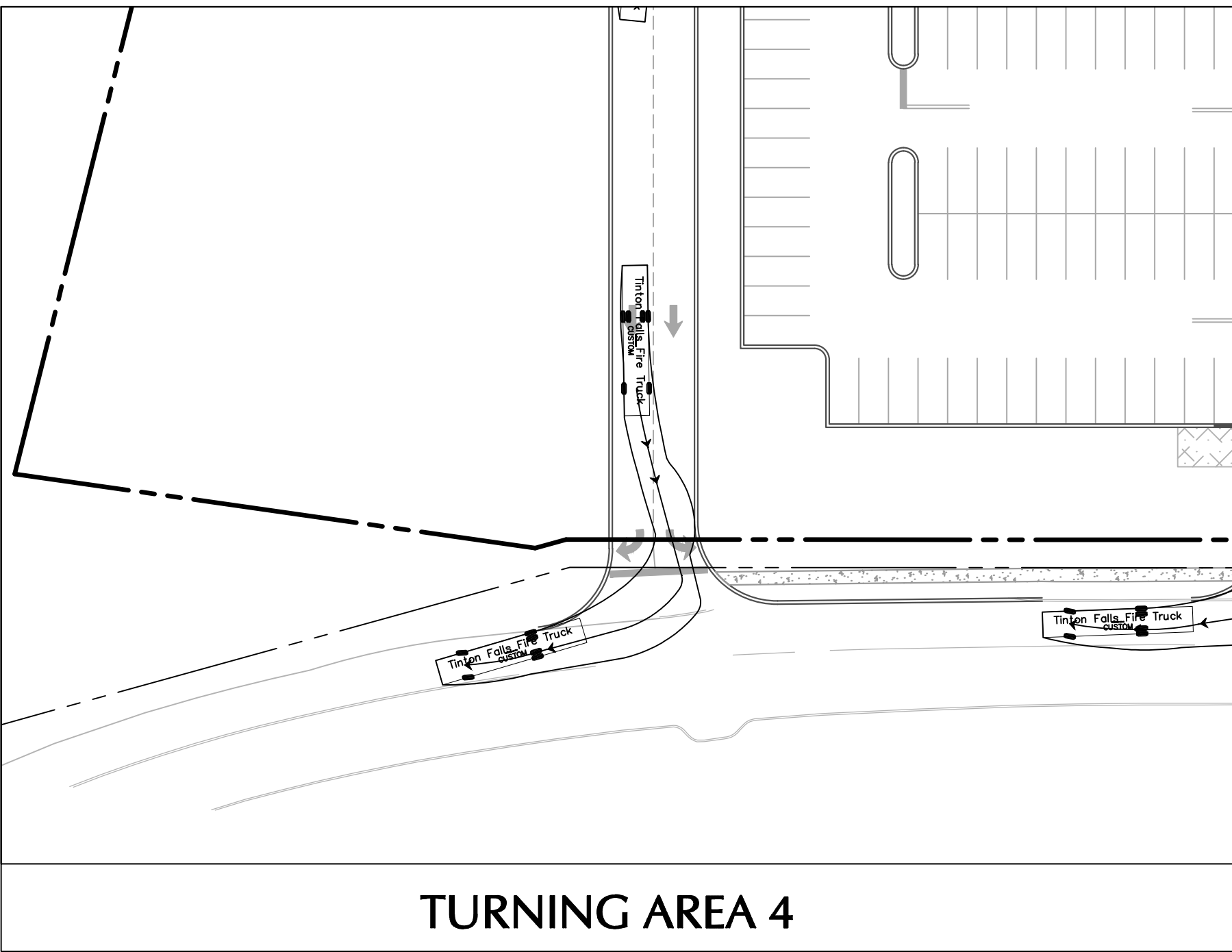
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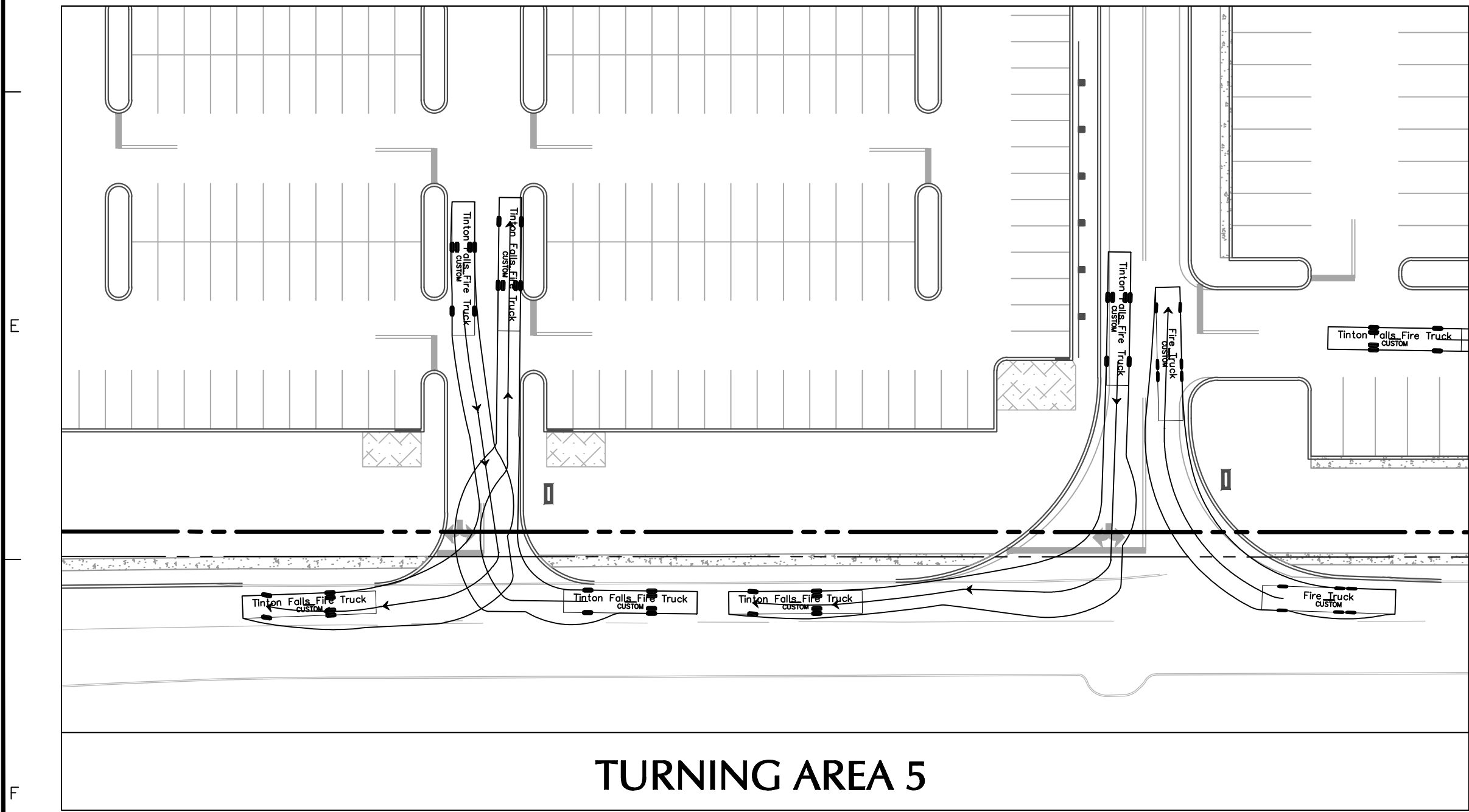
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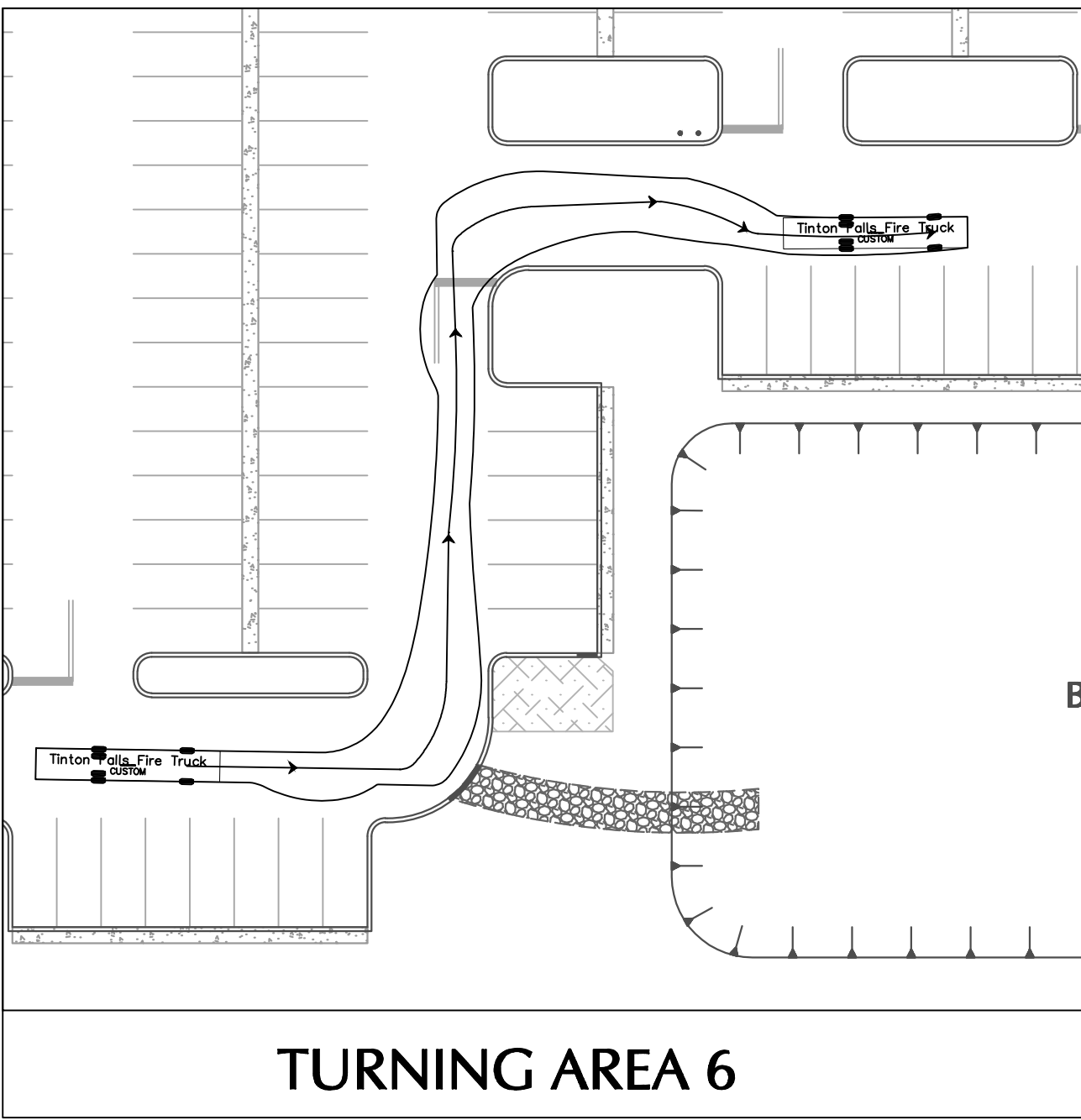
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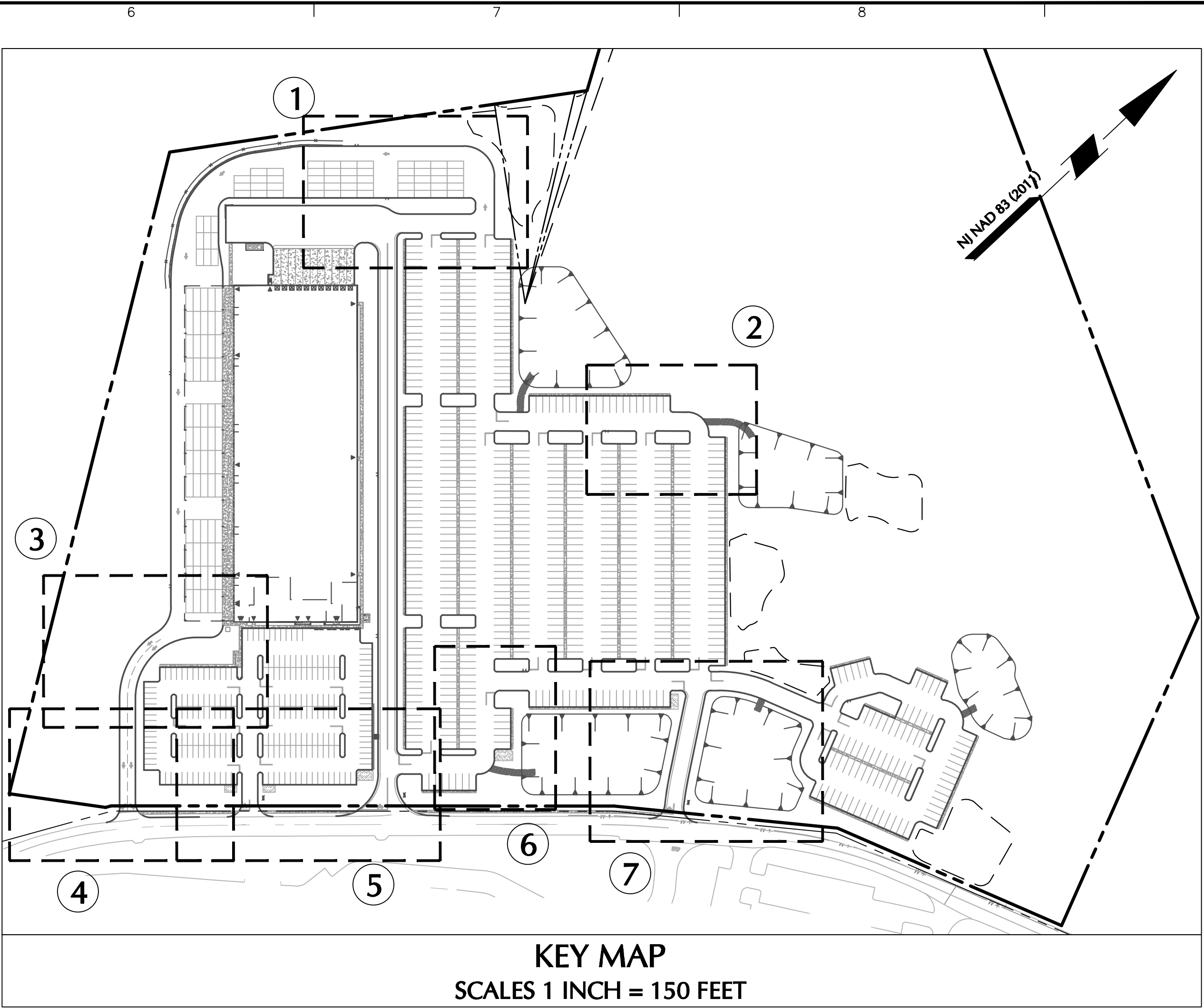
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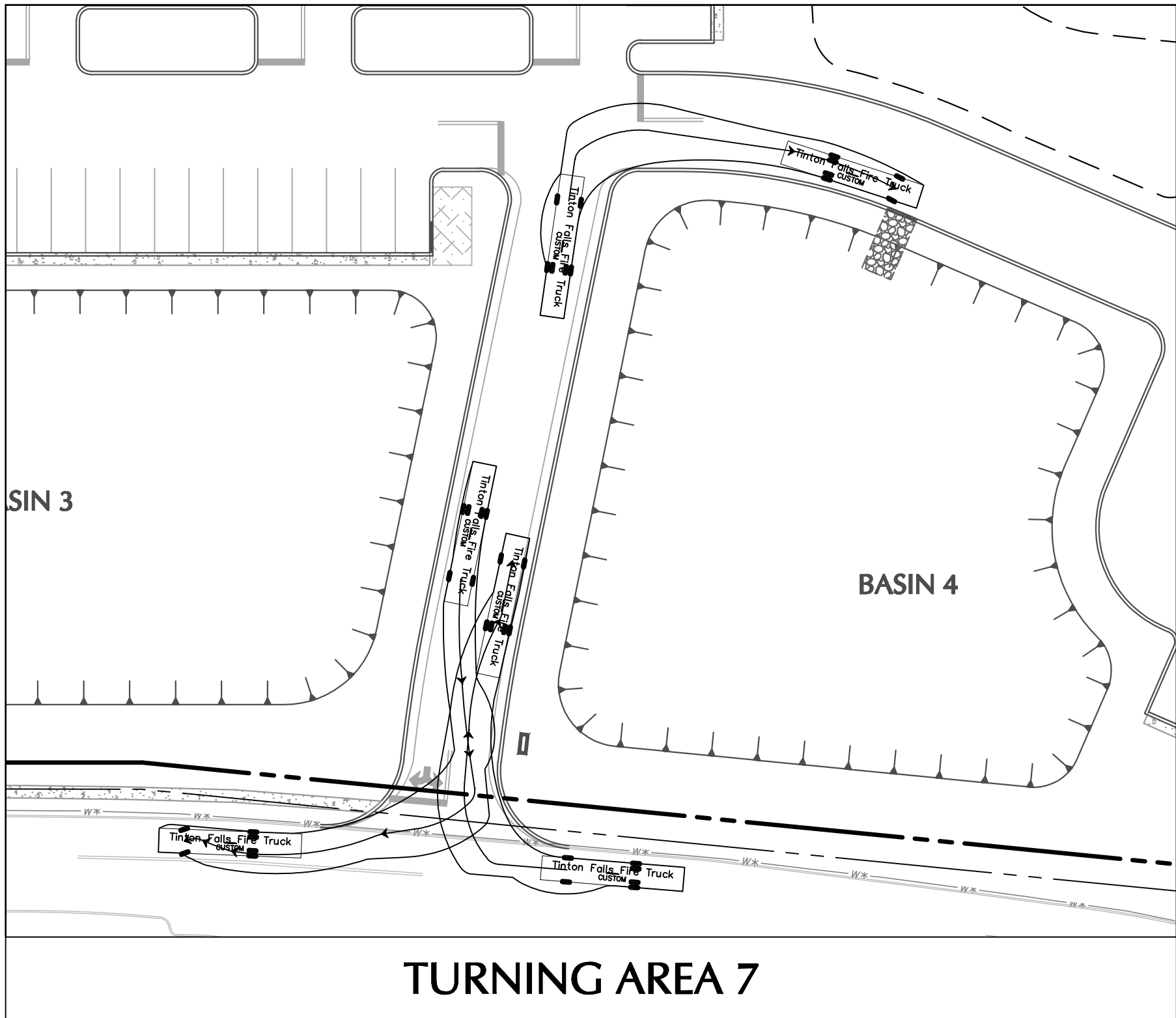
TURNING AREA 5



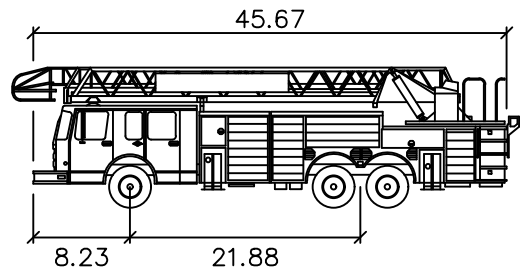
TURNING AREA 6



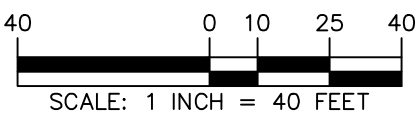
KEY MAP
SCALES 1 INCH = 150 FEET




TURNING AREA 7



Tinton Falls Fire Truck
feet
Width : 7.69
Track : 9.00
Lock to Lock Time : 6.0
Steering Angle : 45.0



| | | |
|---|-----------------------|---------------|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |
| REVISIONS | | |
| <div></div> | | |
| SIGNATURE | | DATE SIGNED |
| RICHARD BURROW | | 09-21-2020 |
| PROFESSIONAL ENGINEER NJ Lic. No. | | |
| 24GE04459300 | | |
| <div><div>LANGAN</div><div>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054</div><div>T: 973.560.4900 F: 973.560.4901 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA2798400</div></div> | | |
| Project | | |
| <div><div>1251 JUMPING BROOK ROAD</div><div>BOROUGH OF TINTON FALLS BLOCK 128.03, LOT 47</div></div> | | |
| MONMOUTH COUNTY | | NEW JERSEY |
| Drawing Title | | |
| <div><div>EMERGENCY VEHICLE SITE CIRCULATION</div></div> | | |
| Project No. | | Drawing No. |
| 100775501 | | CS702 |
| Date | | |
| 06/25/2020 | | |
| Drawn By | | |
| RY | | |
| Checked By | | |
| RB | | Sheet 9 of 50 |

Sign Face Legend

| SYMBOL | SIGN TYPE |
|--------|--------------------------------|
| S-1 | Stop Sign |
| S-2 | Do Not Enter |
| S-3 | Speed Limit, 5 MPH |
| S-4 | Speed Limit, 10 MPH |
| S-7 | One Way, Left Arrow (S-7 Opp.) |
| S-13 | Trucks Prohibited |
| S-15 | ADA Accessible Car Parking |
| S-16 | ADA Accessible Van Parking |
| S-21 | No Parking Fire Lane |

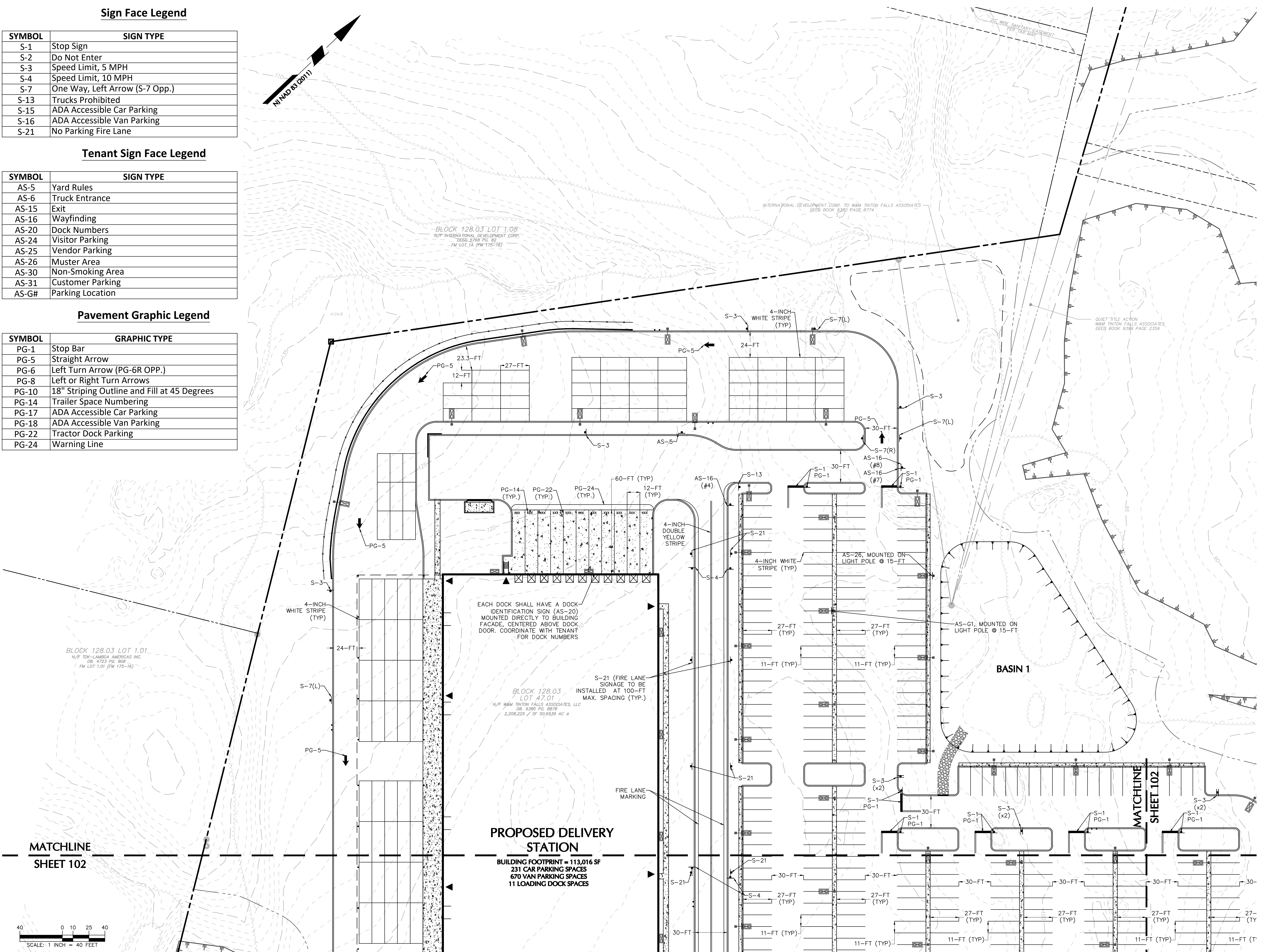
Tenant Sign Face Legend

| SYMBOL | SIGN TYPE |
|--------|------------------|
| AS-5 | Yard Rules |
| AS-6 | Truck Entrance |
| AS-15 | Exit |
| AS-16 | Wayfinding |
| AS-20 | Dock Numbers |
| AS-24 | Visitor Parking |
| AS-25 | Vendor Parking |
| AS-26 | Muster Area |
| AS-30 | Non-Smoking Area |
| AS-31 | Customer Parking |
| AS-G# | Parking Location |

Pavement Graphic Legend

| SYMBOL | GRAPHIC TYPE |
|--------|---|
| PG-1 | Stop Bar |
| PG-5 | Straight Arrow |
| PG-6 | Left Turn Arrow (PG-6R OPP.) |
| PG-8 | Left or Right Turn Arrows |
| PG-10 | 18" Striping Outline and Fill at 45 Degrees |
| PG-14 | Trailer Space Numbering |
| PG-17 | ADA Accessible Car Parking |
| PG-18 | ADA Accessible Van Parking |
| PG-22 | Tractor Dock Parking |
| PG-24 | Warning Line |

- NOTES:
- BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 - ALL SIGNAGE, STRIPING, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ALL STRIPING SHALL BE LONG LIFE EPOXY RESIN AND 4 INCH WIDE UNLESS OTHERWISE NOTED ALL PAVEMENT GRAPHICS SHALL BE HOT-APPLIED THERMOPLASTIC (REFLECTIVE).
 - ALL PROPOSED SIGNAGE AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE TENANT REQUIREMENTS.
 - FINAL QUANTITIES SHALL BE COORDINATED AND VERIFIED IN THE FIELD.
 - ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ. SUB-CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
 - MOUNT SIGNAGE ACCORDING TO LOCAL CODES.



| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

| | | |
|--|--|-------------|
| SIGNATURE | | DATE SIGNED |
| RICHARD BURROW | | 09-21-2020 |
| PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 | | |

LANGAN

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300 Kimball Drive
Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

**1251 JUMPING
BROOK ROAD**

BOROUGH OF TINTON FALLS

BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

**PARTIAL STRIPING
AND SIGNAGE
PLAN 1**

Project No. Drawing No.

100775501

Date

06/25/2020

Drawn By

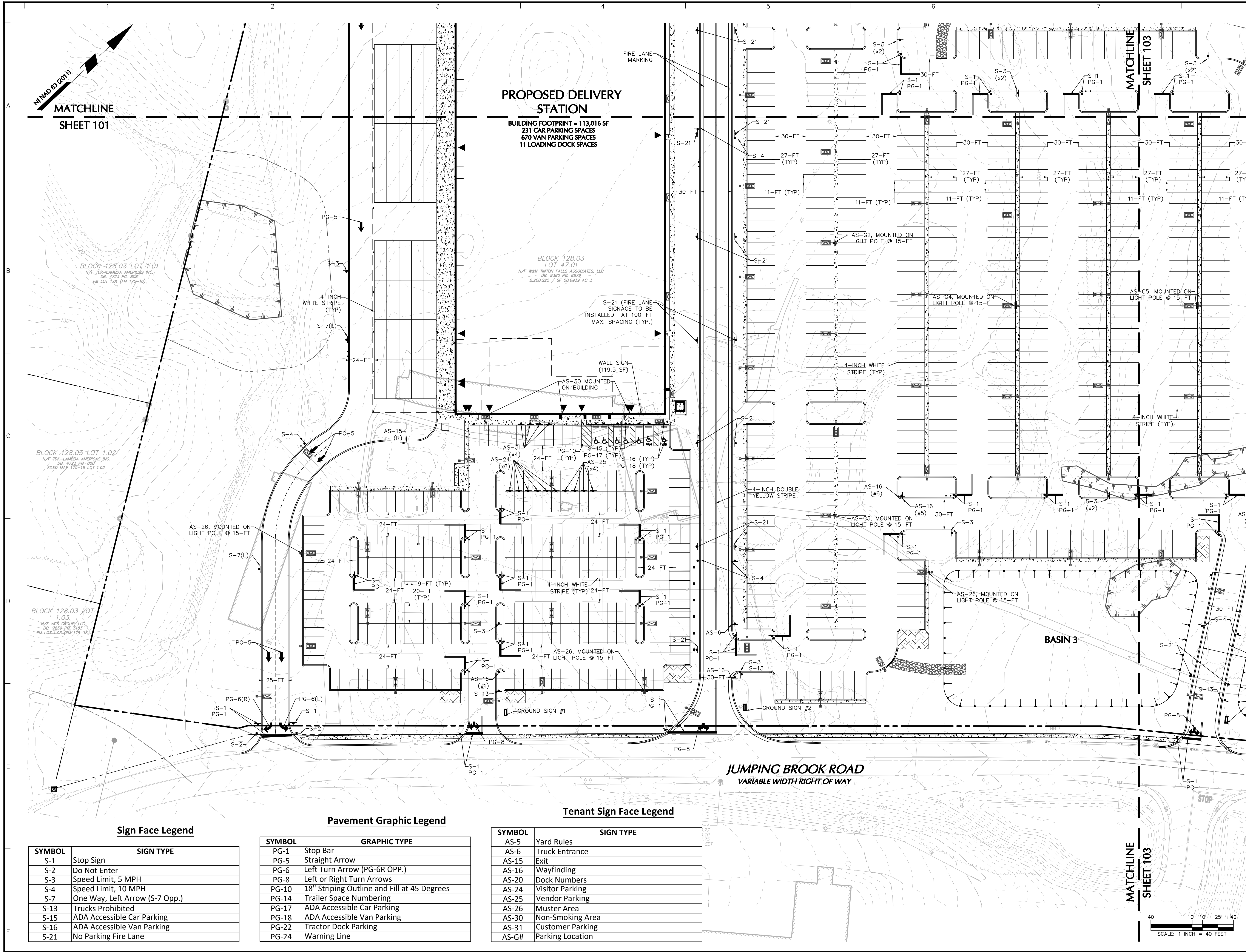
RY

Checked By

RB

SS101

Sheet 10 of 50



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
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 7. MOUNT SIGNAGE ACCORDING TO LOCAL CODES.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

09-21-2020

SIGNATURE RICHARD BURROW DATE SIGNED

PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

LANGAN

Langan Engineering, Environmental, Surveying,
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300 Kimball Drive
Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project 1251 JUMPING BROOK ROAD

BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title PARTIAL STRIPING AND SIGNAGE PLAN 2

Project No. 100775501

Date 06/25/2020

Drawn By RY

Checked By RB

Drawing No.

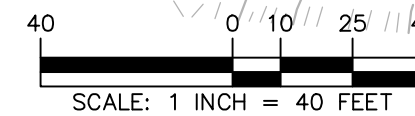
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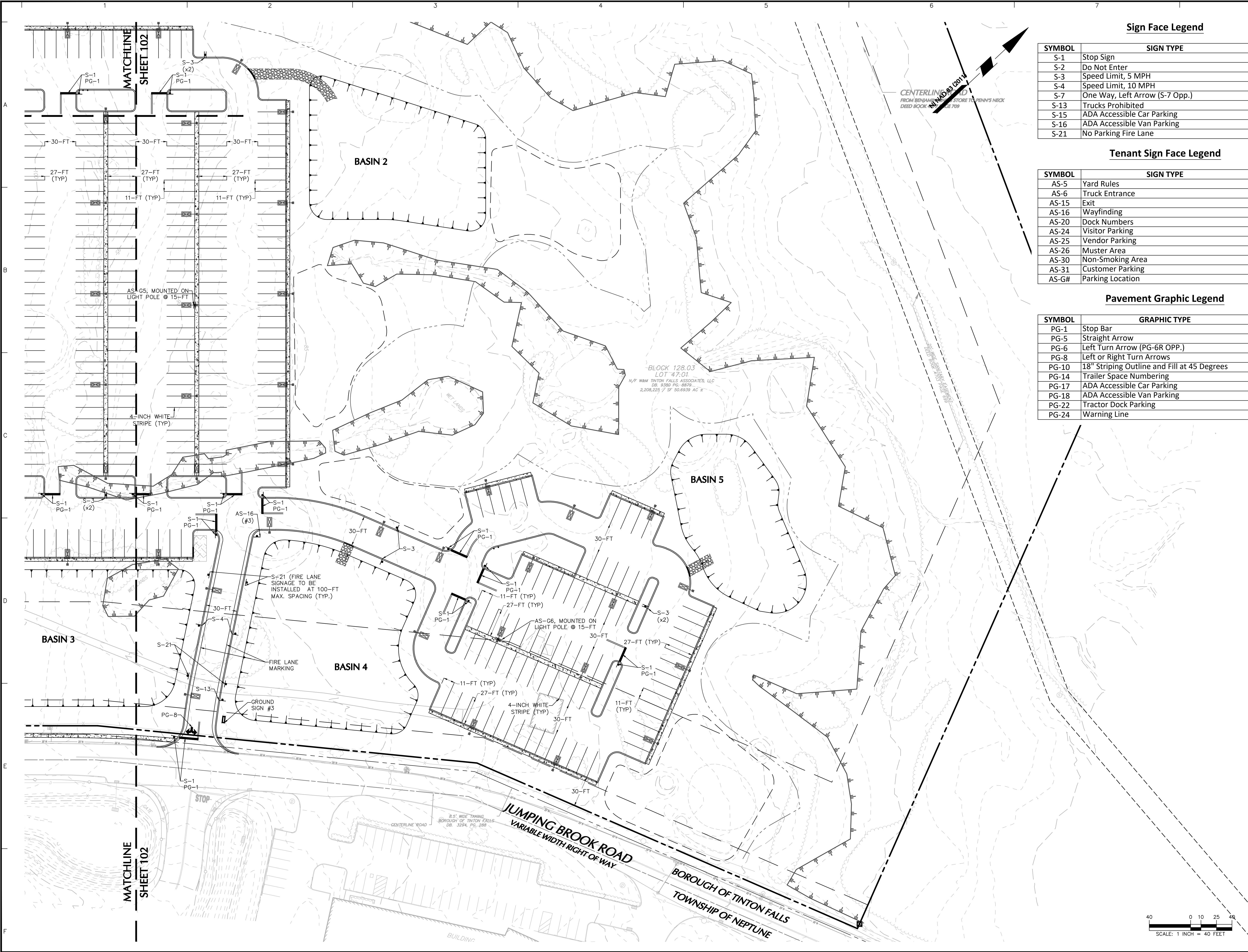
Sheet 11 of 50

| SYMBOL | SIGN TYPE |
|--------|--------------------------------|
| S-1 | Stop Sign |
| S-2 | Do Not Enter |
| S-3 | Speed Limit, 5 MPH |
| S-4 | Speed Limit, 10 MPH |
| S-7 | One Way, Left Arrow (S-7 Opp.) |
| S-13 | Trucks Prohibited |
| S-15 | ADA Accessible Car Parking |
| S-16 | ADA Accessible Van Parking |
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| SYMBOL | GRAPHIC TYPE |
|--------|---|
| PG-1 | Stop Bar |
| PG-5 | Straight Arrow |
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| PG-8 | Left or Right Turn Arrows |
| PG-10 | 18" Striping Outline and Fill at 45 Degrees |
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| PG-17 | ADA Accessible Car Parking |
| PG-18 | ADA Accessible Van Parking |
| PG-22 | Tractor Dock Parking |
| PG-24 | Warning Line |

| SYMBOL | SIGN TYPE |
|--------|------------------|
| AS-5 | Yard Rules |
| AS-6 | Truck Entrance |
| AS-15 | Exit |
| AS-16 | Wayfinding |
| AS-20 | Dock Numbers |
| AS-24 | Visitor Parking |
| AS-25 | Vendor Parking |
| AS-26 | Muster Area |
| AS-30 | Non-Smoking Area |
| AS-31 | Customer Parking |
| AS-G# | Parking Location |





| Sign Face Legend | |
|------------------|--------------------------------|
| SYMBOL | SIGN TYPE |
| S-1 | Stop Sign |
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| S-3 | Speed Limit, 5 MPH |
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| Tenant Sign Face Legend | |
|-------------------------|------------------|
| SYMBOL | SIGN TYPE |
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| Pavement Graphic Legend | |
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

| | |
|-----------------------------------|-------------|
| | 09-21-2020 |
| SIGNATURE | DATE SIGNED |
| RICHARD BURROW | |
| PROFESSIONAL ENGINEER NJ Lic. No. | |
| 24GE0459300 | |

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL STRIPING AND SIGNAGE PLAN 3

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | SS103 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |

A

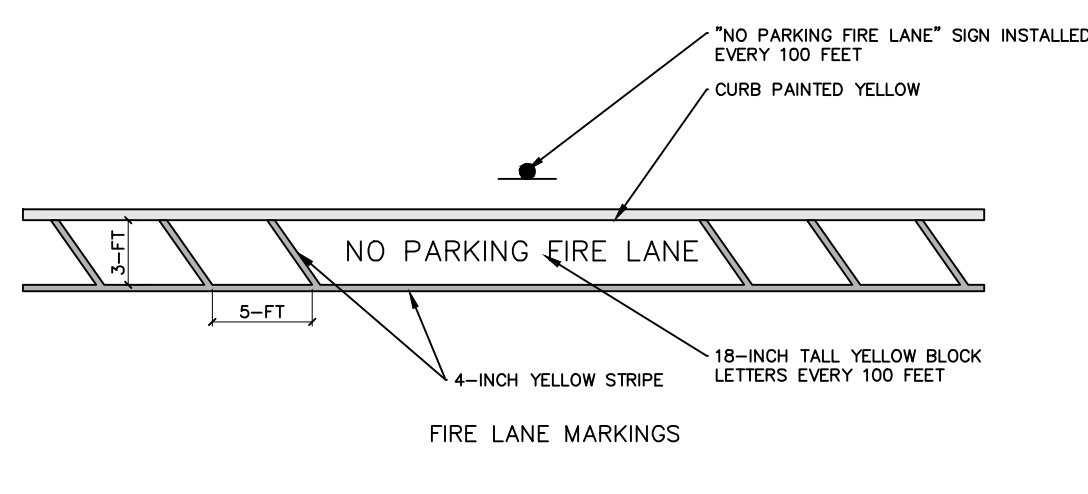
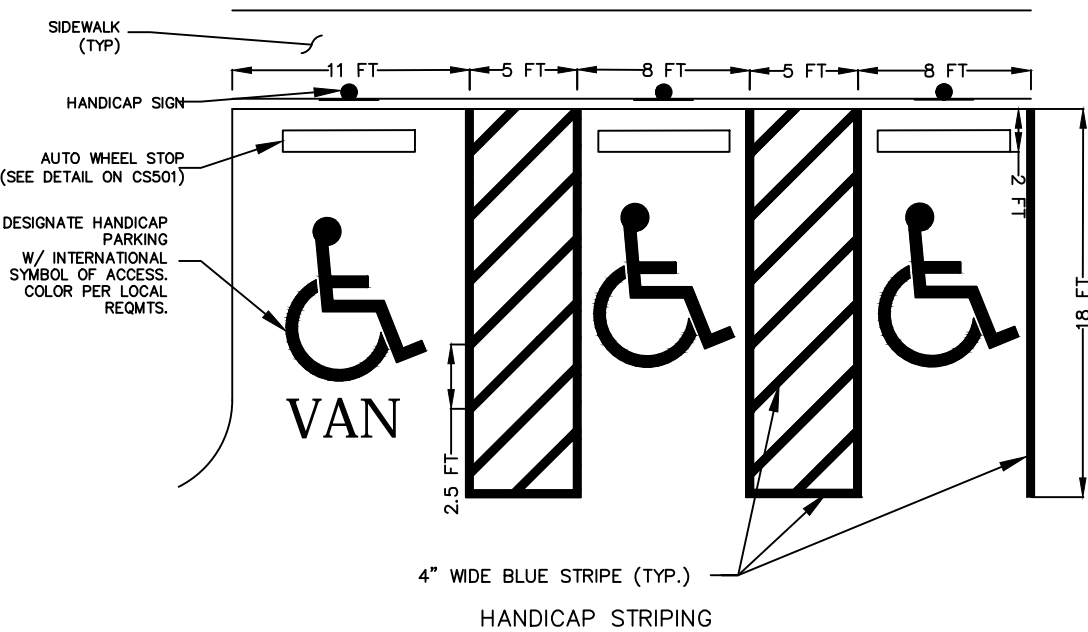
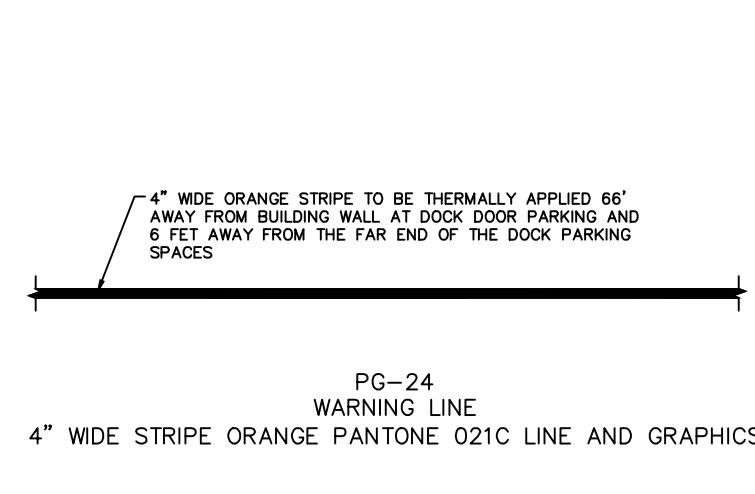
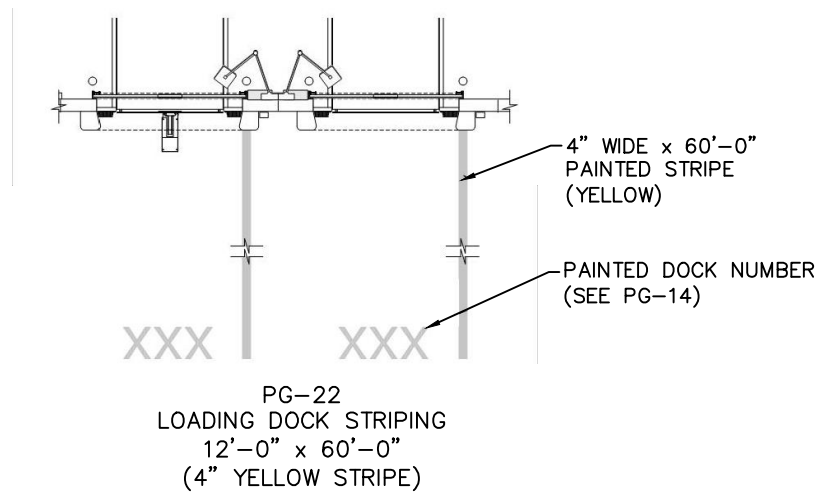
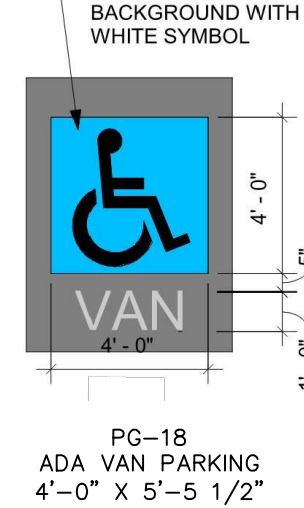
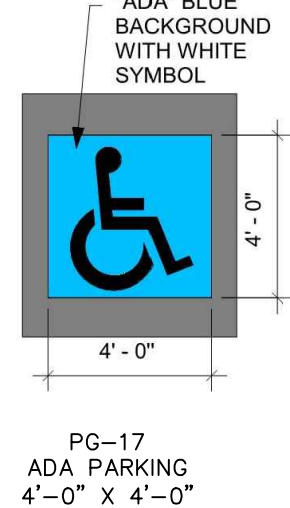
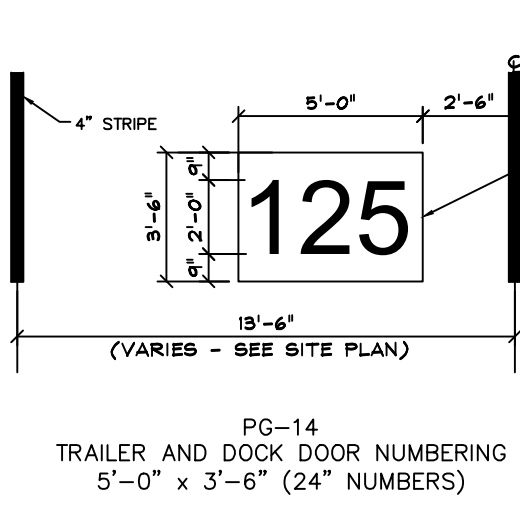
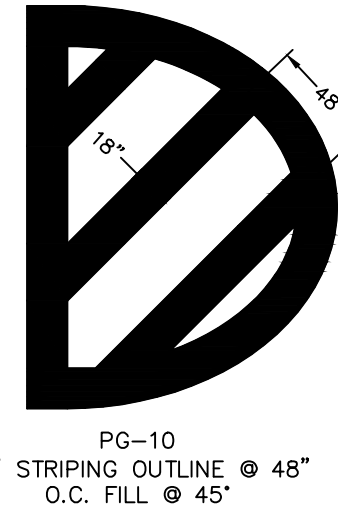
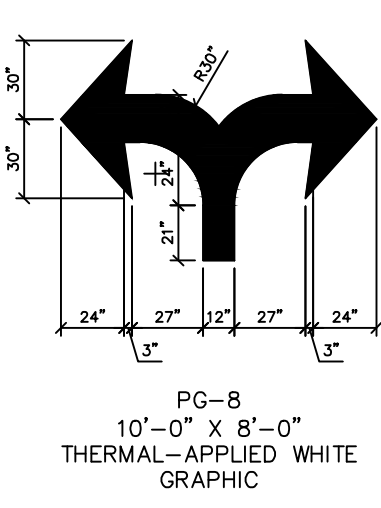
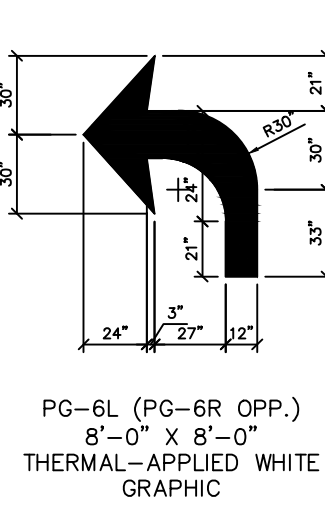
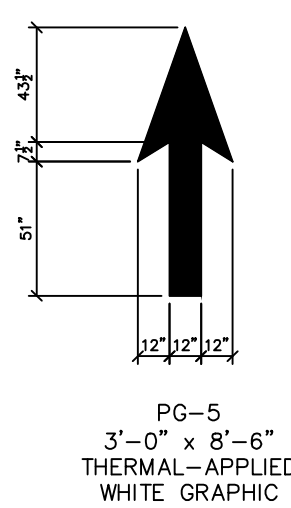
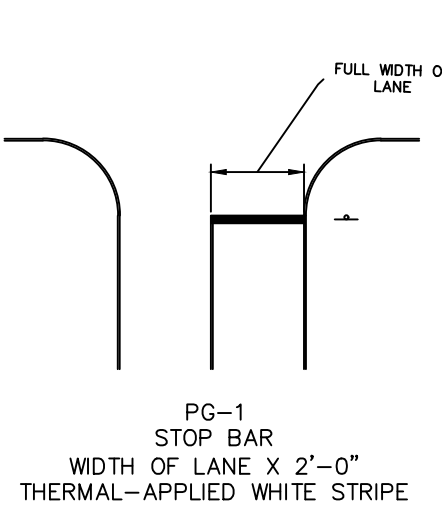
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C

D

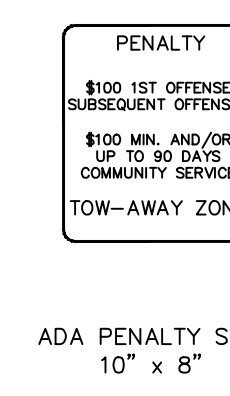
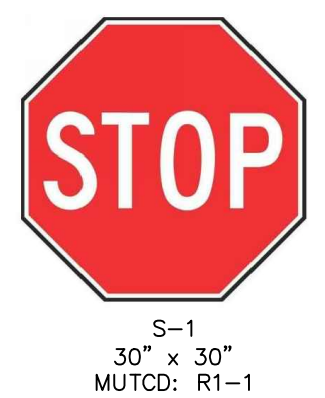
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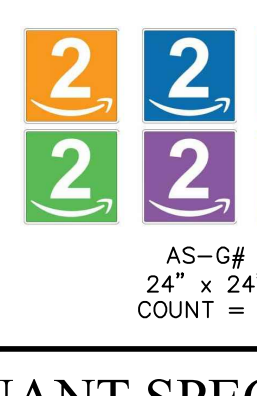
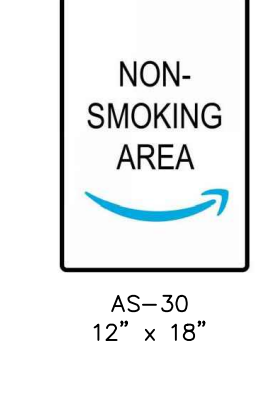
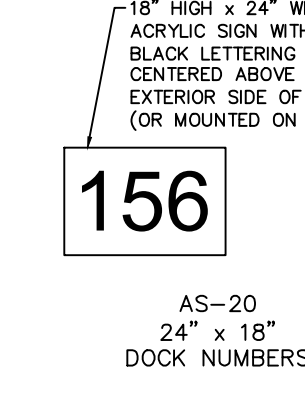
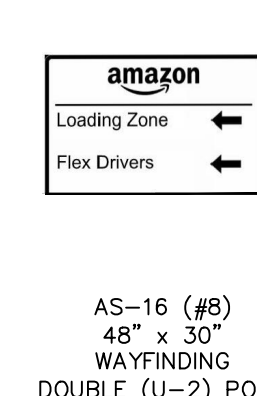
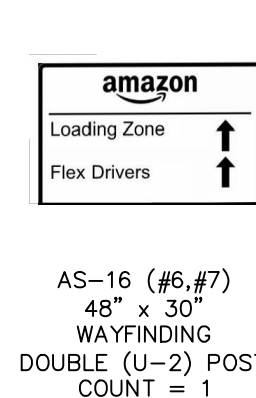
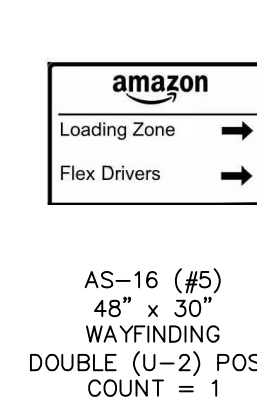
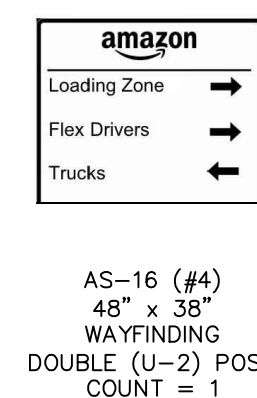
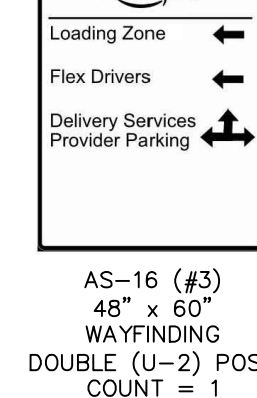
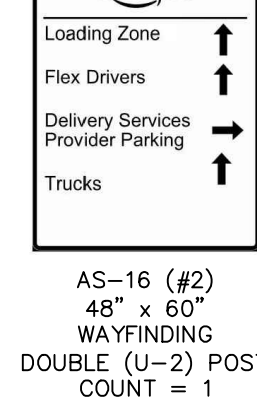
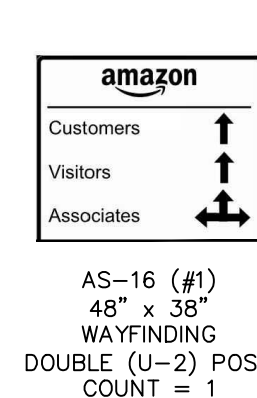
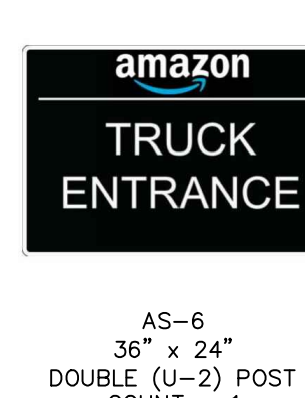
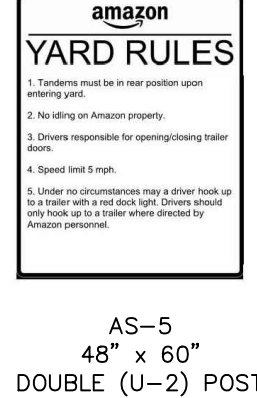


- NOTES:
- TWO COAT APPLICATION REQUIRED FOR ALL PAVEMENT GRAPHICS.
 - FIRE LANE MARKINGS AND SIGNAGE SHALL BE LOCATED AS DEPICTED ON THE SITE PLAN AND APPROVED BY FIRE OFFICIAL.

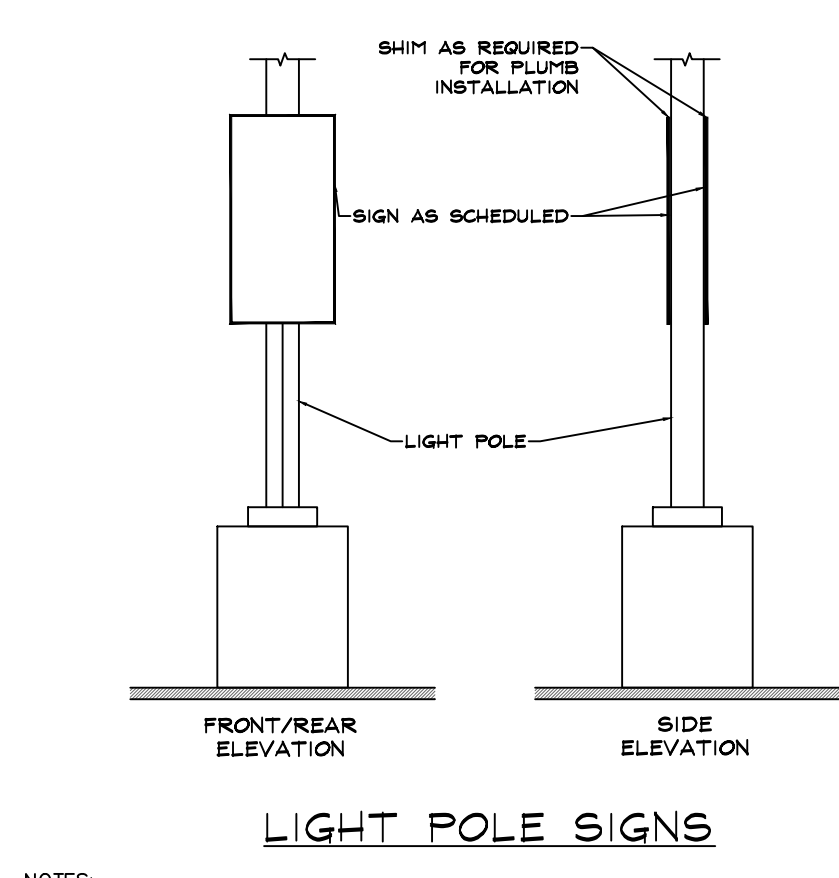
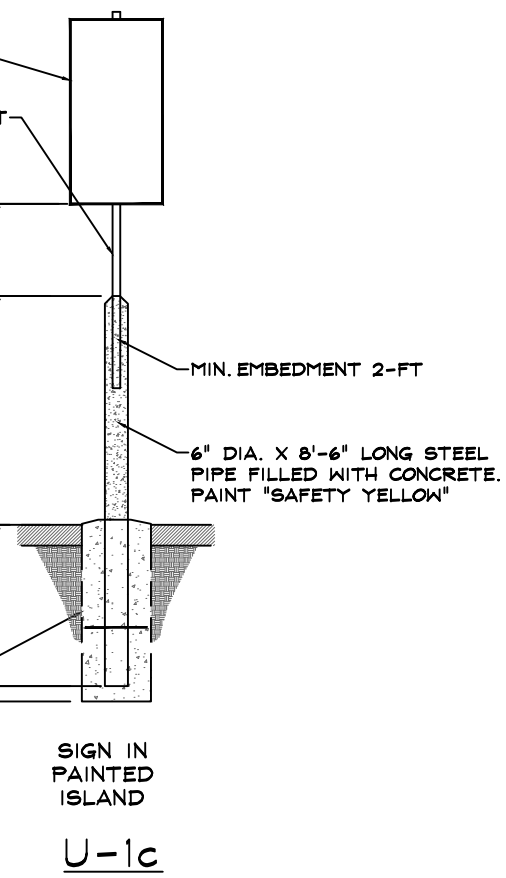
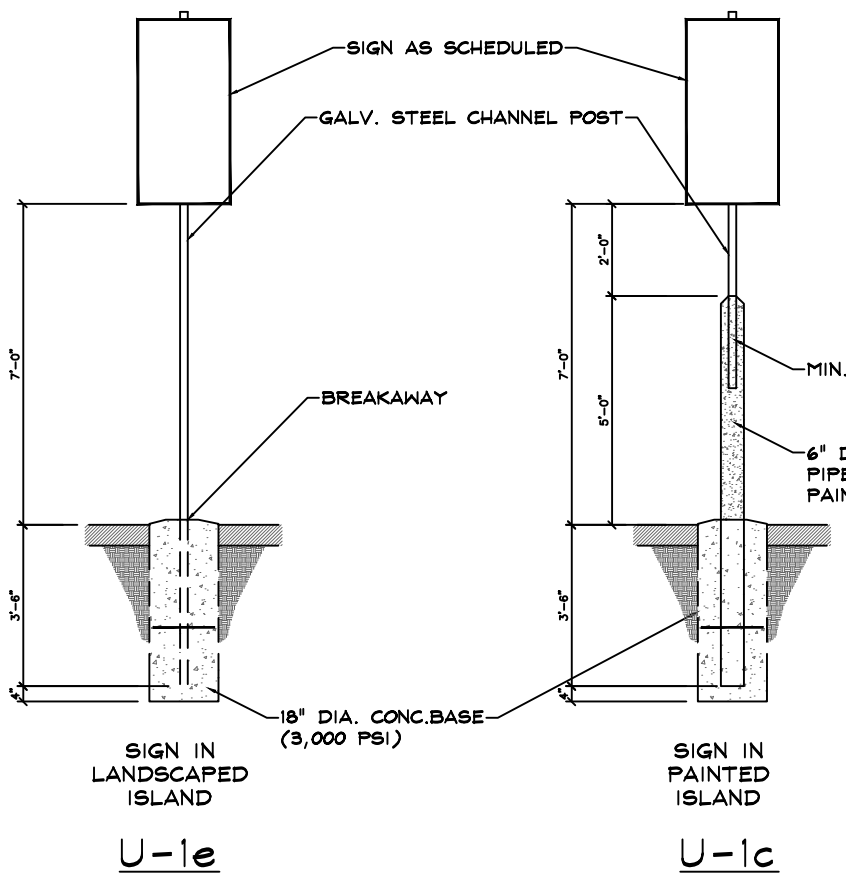
PAVEMENT GRAPHICS



SITE SIGNAGE

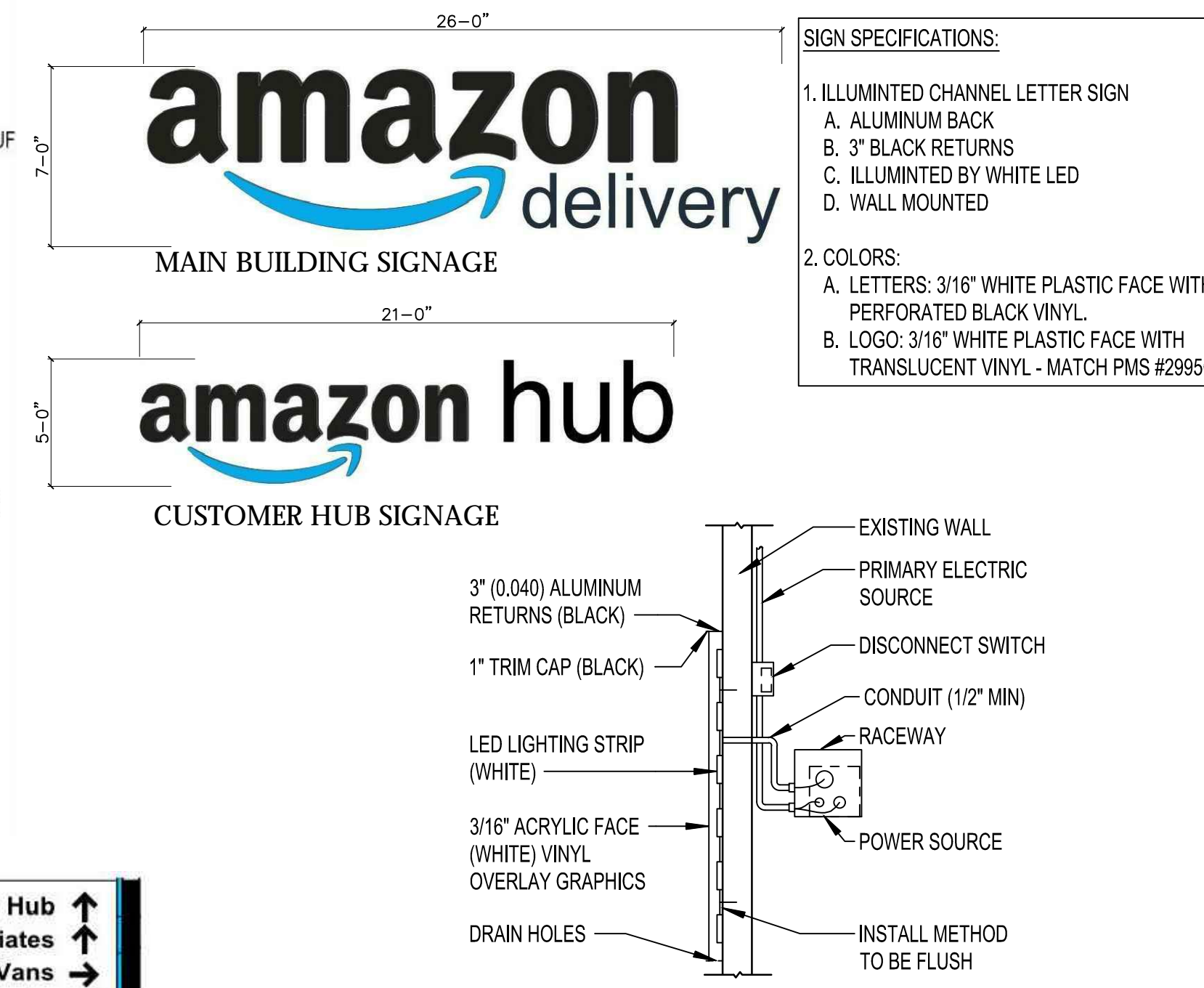
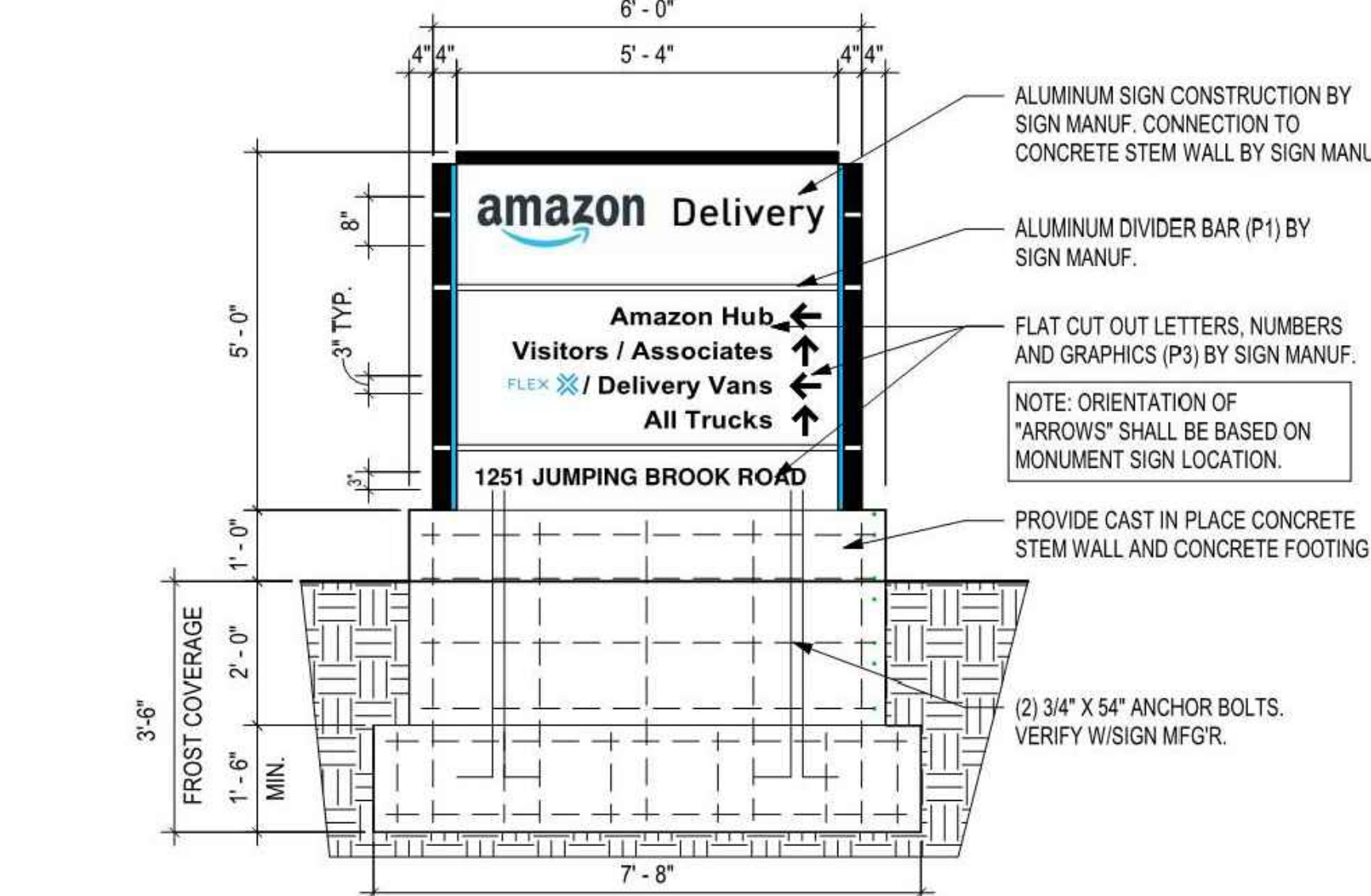


TENANT SPECIFIC SIGNAGE




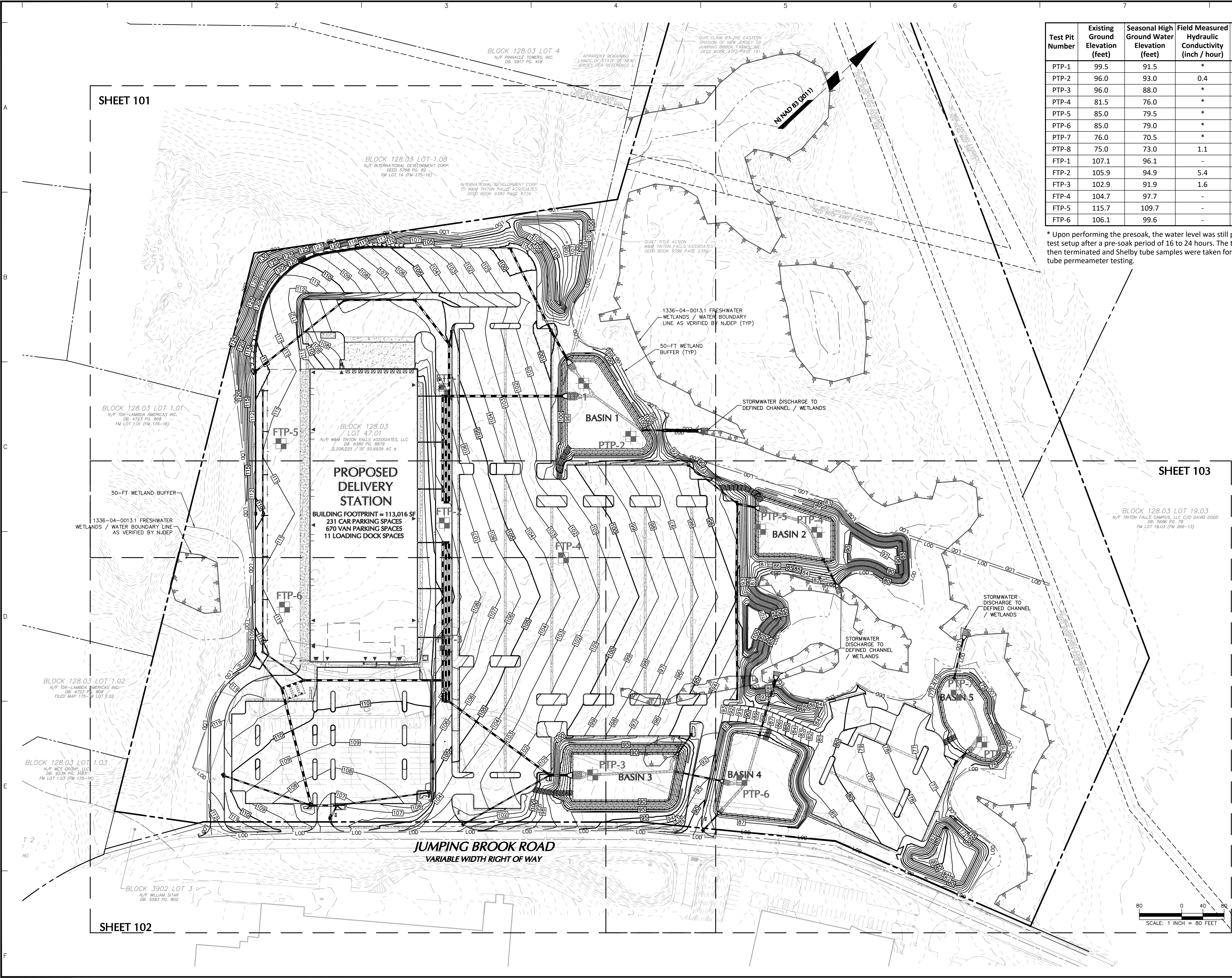
- NOTES:
- SEE ATTACHED PLANS FOR SIGN LOCATIONS.
 - "U1-E" LABEL DESIGNATES SIGNS ON TOP OF COMPACTED EARTH. "U1-C" LABEL DESIGNATES SIGNS ON TOP OF CONCRETE OR ASPHALTIC PAVING. "U-2" LABEL DESIGNATES SIGNS WITH DOUBLE SUPPORTS.
 - FOR U-1E SIGNS, PROVIDE A 36" MOUNTING TUBE (2 1/4" SQUARE STEEL POST) DRIVEN TO 1" TO 2" ABOVE GRADE. THE MOUNTING TUBE IS TO BE PAIRED WITH AN 18" BREAKAWAY SUPPORT TUBE (2 1/4" SQUARE STEEL POST). THE SIGN POST SINKS TO BASE OF THE ANCHOR TUBE AND BREAKAWAY SUPPORT WITH AN ANGLE BOLT.
 - FOR U-1C SIGNS, A PEDESTAL BASE IS TO BE MARRIED TO A 2" POST. THE BASE IS SHIMMED FOR PLUMB INSTALLATION OF THE POST AND PANEL. BASE FASTENS TO CONCRETE PAVING WITH MASONRY ANCHORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - U-1E AND U-1C SIGN PANELS IS TO BE INSTALLED AT 7' A.F.G. WITH THE POST EXTENDING WITHIN 2" OF THE TOP OF THE SIGN PANEL. TOP OF THE U-2 SIGN PANEL SHALL BE AT 8' A.F.G. INSTALLATION SHALL BE PLUMB, LEVEL, AND STRAIGHT.
 - SUPPORTS ARE TO BE SUFFICIENT FOR SECURE MOUNTING OF SIGN ON LIGHT POLE.
 - ALL HARDWARE SHALL BE NON-CORROSIVE. IF ADDITIONAL THICKNESS OF MATERIAL OR ADDITIONAL INTERNAL BRACING IS REQUIRED FOR SECURE INSTALLATION OR TO PROVIDE STABILITY ON LIGHT POLE, ALTERATIONS SHALL BE REFLECTED IN SHOP DRAWINGS. WIND LOADING AND DURABILITY SHALL BE TAKEN INTO ACCOUNT IN THE ENGINEERING OF THE SIGN.
 - GRAPHICS AND TYPOGRAPHY SIGN GRAPHICS ARE TO BE HEAVY DUTY '3M' REFLECTIVE VINYL FOR SIGNS ON LIGHT POLE.

SIGN POSTS



BUILDING / WALL SIGNAGE

| | | |
|--|-----------------------|----------------|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |
| REVISIONS | | |
| <div></div> | | |
| SIGNATURE | | DATE SIGNED |
| RICHARD BURROW | | 09-21-2020 |
| PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 | | |
| <div>LANGAN</div> <div>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054</div> <div>T: 973.560.4900 F: 973.560.4901 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400</div> | | |
| Project | | |
| <div>1251 JUMPING BROOK ROAD</div> <div>BOROUGH OF TINTON FALLS BLOCK 128.03, LOT 47</div> <div>MONMOUTH COUNTY</div> <div>NEW JERSEY</div> | | |
| Drawing Title | | |
| <div>STRIPING AND SIGNAGE DETAILS</div> | | |
| Project No. | | Drawing No. |
| 100775501 | | |
| Date | | |
| 06/25/2020 | | |
| Drawn By | | SS501 |
| RY | | |
| Checked By | | |
| RB | | Sheet 13 of 50 |




| Test Pit Number | Existing Ground Elevation (feet) | Seasonal High Ground Elevation (feet) | Field Measured Hydraulic Conductivity (inch / hour) | Laboratory Hydraulic Conductivity (inch / hour) |
|-----------------|----------------------------------|---------------------------------------|---|---|
| PTP-1 | 99.5 | 91.5 | * | 0.1 |
| PTP-2 | 96.0 | 93.0 | 0.4 | 0.0 |
| PTP-3 | 96.0 | 88.0 | * | 1.8 |
| PTP-4 | 81.5 | 76.0 | * | 1.4 |
| PTP-5 | 85.0 | 79.5 | * | 0.4 |
| PTP-6 | 85.0 | 79.0 | * | 0.1 |
| PTP-7 | 76.0 | 70.5 | * | 1.6 |
| PTP-8 | 75.0 | 73.0 | 1.1 | 0.2 |
| FTP-1 | 107.1 | 96.1 | - | 8.8 |
| FTP-2 | 105.9 | 94.9 | 5.4 | 0.5 |
| FTP-3 | 102.9 | 91.9 | 1.6 | 0.9 |
| FTP-4 | 104.7 | 97.7 | - | 0.0 |
| FTP-5 | 115.7 | 109.7 | - | 7.2 |
| FTP-6 | 106.1 | 99.6 | - | 0.0 |

* Upon performing the presoak, the water level was still present in the test setup after a pre-soak period of 16 to 24 hours. The tests were then terminated and Shelby tube samples were taken for laboratory tube permeameter testing.

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 - ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE FILL MATERIAL, PLACEMENT OF FILL, COMPACTION REQUIREMENTS AND THE COMPACTION TESTING REQUIREMENTS ARE DEFINED IN THE GEOTECHNICAL REPORT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY LOCAL WATER AND SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.
 - CONTRACTOR TO CONFIRM ALL STRUCTURE INVERTS AND NOTIFY ENGINEER OF ANY INCONSISTENCIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO BEGIN PIPE NETWORK CONSTRUCTION AT "TIE-IN" LOCATION (DOWNSTREAM) AND BUILD UPSTREAM.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ROOF LEADER CONNECTION LOCATIONS. WHERE CONFLICTS EXIST BETWEEN THESE PLANS AND ARCHITECTURAL PLANS, CONTRACTOR TO NOTIFY THE ENGINEER BEFORE CONSTRUCTION.
 - ALL PIPES SHALL BE HDPE UNLESS OTHERWISE NOTED.
 - ALL INLETS SHALL BE TYPE B OR TYPE E UNLESS OTHERWISE NOTED.
 - PROPOSED PIPE CONNECTIONS TO STRUCTURES ARE TO BE EQUIPPED WITH WATER-TIGHT JOINTS.
 - SPOT GRADES REPRESENT PAVEMENT GRADES OR BOTTOM OF CURB UNLESS OTHERWISE NOTED.
 - ALL AREAS SHALL BE WELL GRADED TO MINIMIZE FLAT AREAS, TO PROVIDE PROPER DRAINAGE, AND TO PREVENT LOCALIZED PONDING.
 - ALL SLOPES SHALL BE EQUAL TO OR LESS THAN 3:1. WHERE SLOPES ARE GREATER THAN 3H:1V, EROSION CONTROL MATING SHALL BE USED.
 - ALL STORMWATER MANAGEMENT FEATURES ON THE PROPERTY SHALL BE INSPECTED AND CLEANED/REPAIRED UNDER THE SUPERVISION OF THE TOWNSHIP ENGINEER AT THE TIME OF CONSTRUCTION.
 - ALL STORMWATER INLETS ON THE PROPERTY AND ALONG ITS FRONTAGES SHALL BE EQUIPPED "N-ECO" GRATES. THE SIZES OF THE PROPOSED BERMS ARE SCHEMATICALLY SHOWN AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
 - ALL REINFORCED CONCRETE PIPES SHALL HAVE RUBBER O-RING GASKETS.

| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
|---------|-----------------------|-----|
| Date | Description | No. |

REVISIONS


09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

LANGAN
Langan Engineering, Environmental, Surveying,
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Parsippany, NJ 07054

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

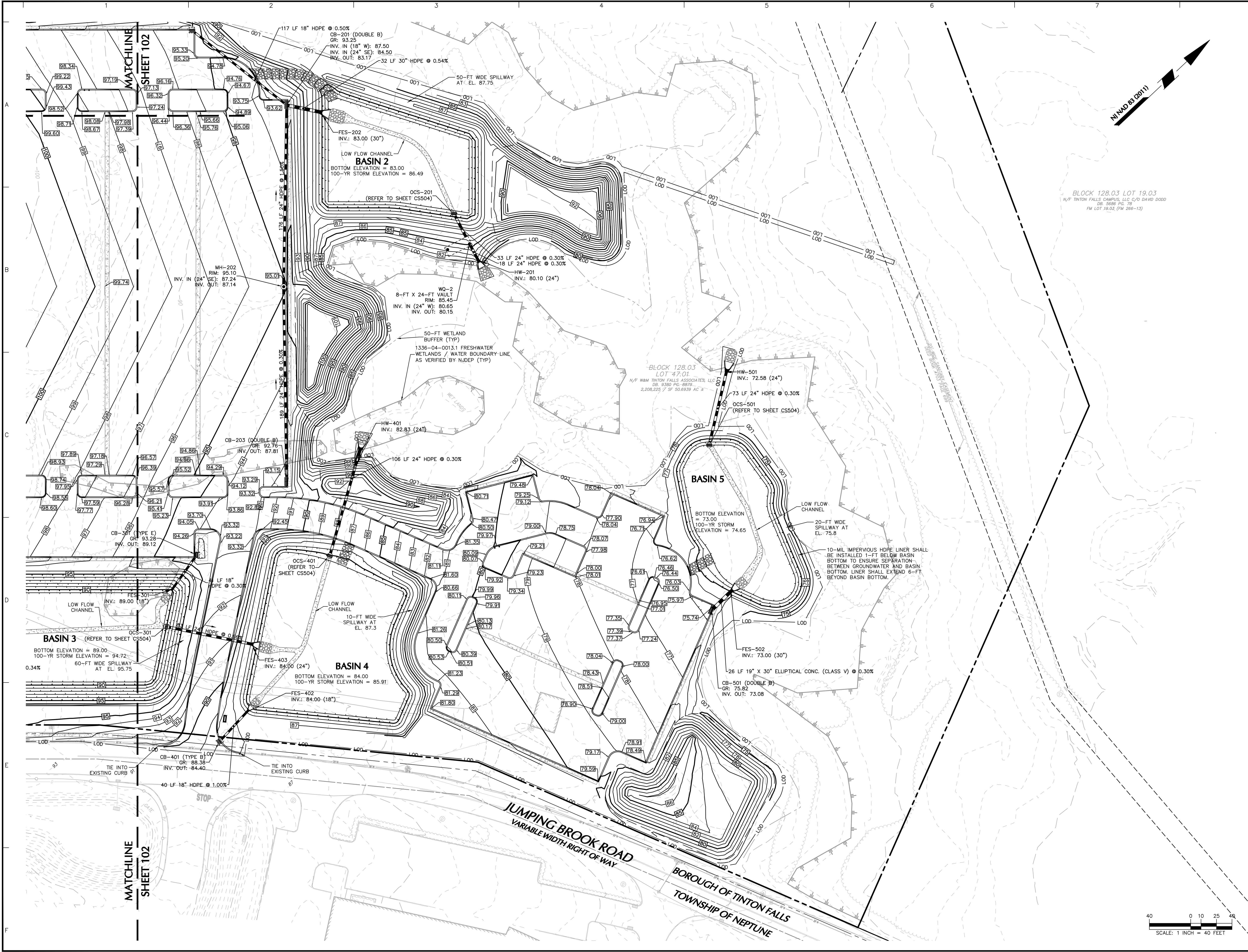
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

OVERALL GRADING AND DRAINAGE PLAN


| | |
|----------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CG100 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet 14 of 50 | |



- NOTES:
- BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
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| | | |
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS


SIGNATURE RICHARD BURROW DATE SIGNED 09-21-2020
PROFESSIONAL ENGINEER NJ Lic. No. 243E04459300

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Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL GRADING AND DRAINAGE PLAN 3

Project No. Drawing No.

100775501

Date

06/25/2020

Drawn By

RY

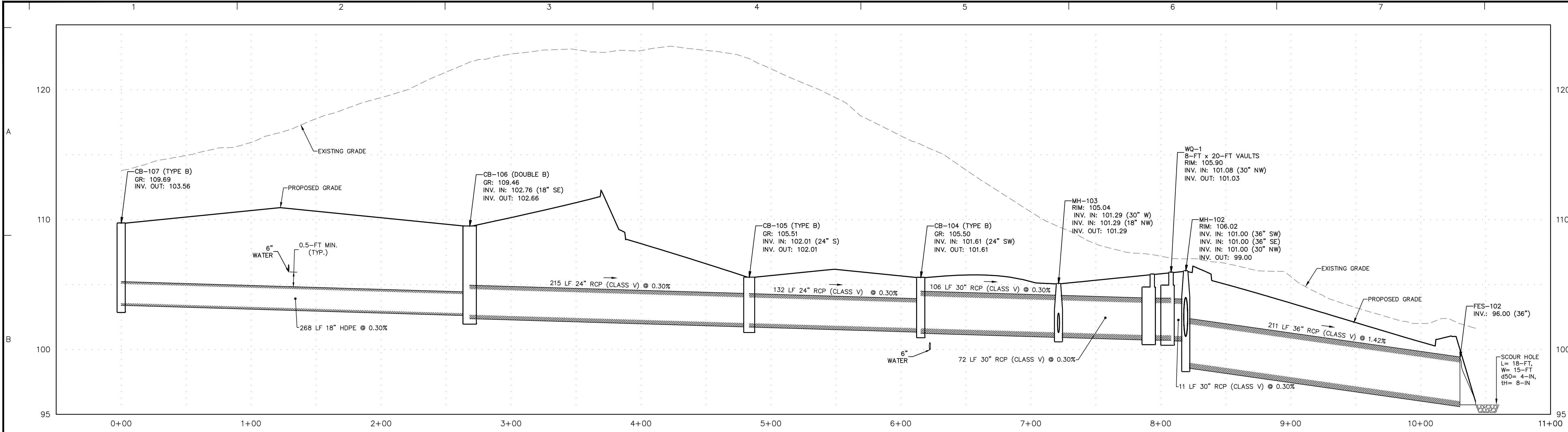
Checked By

RB

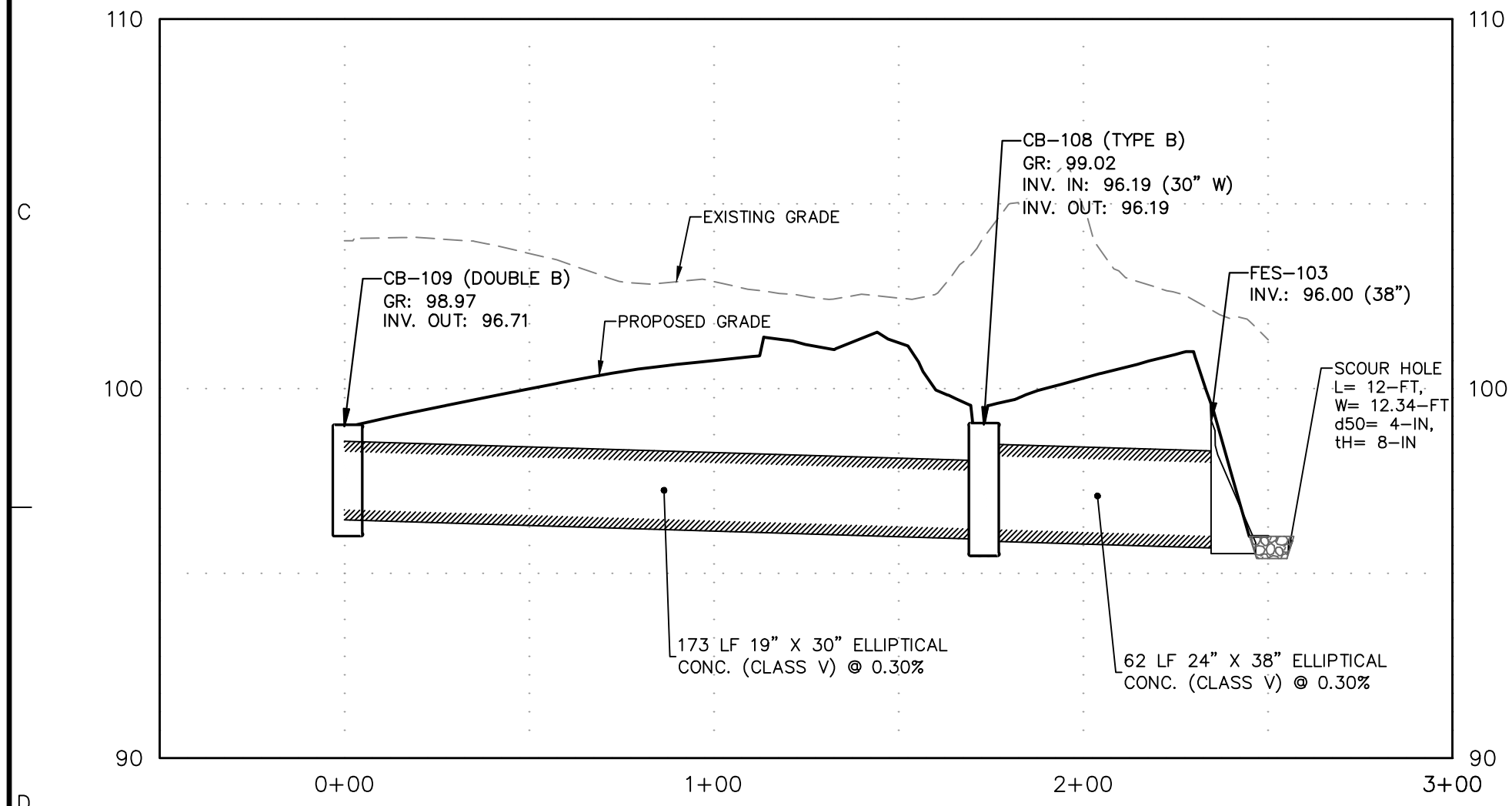
Sheet 17 of 50

CG103

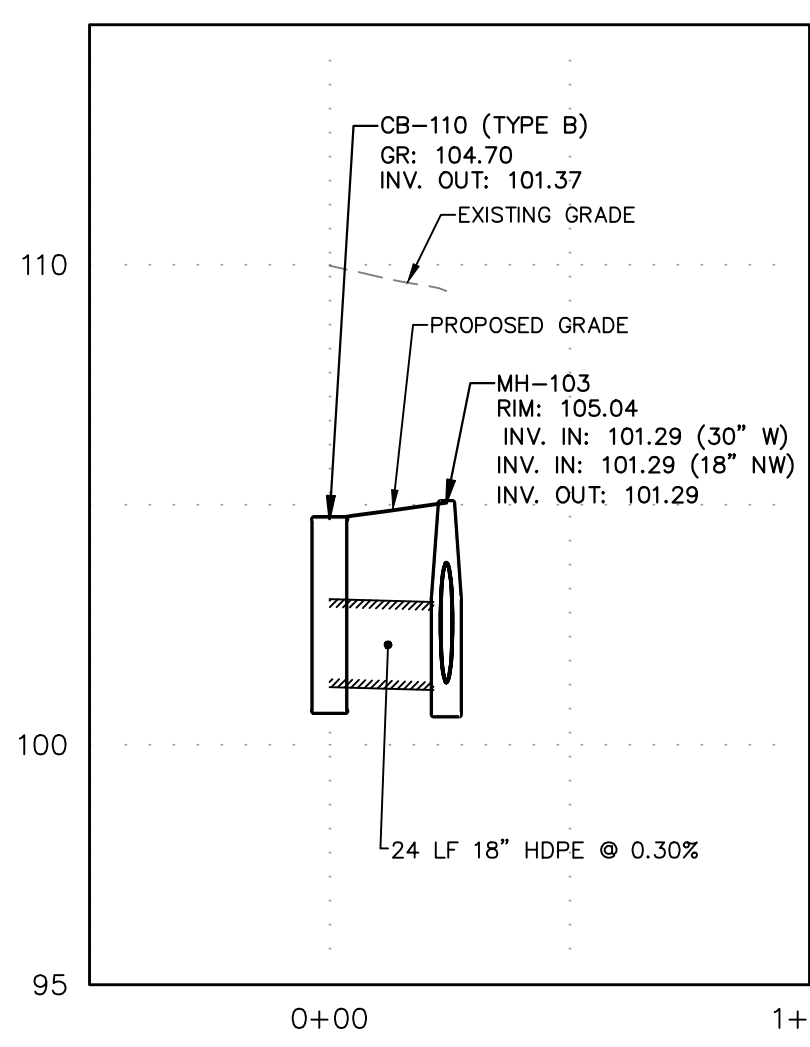
SCALE: 1 INCH = 40 FEET



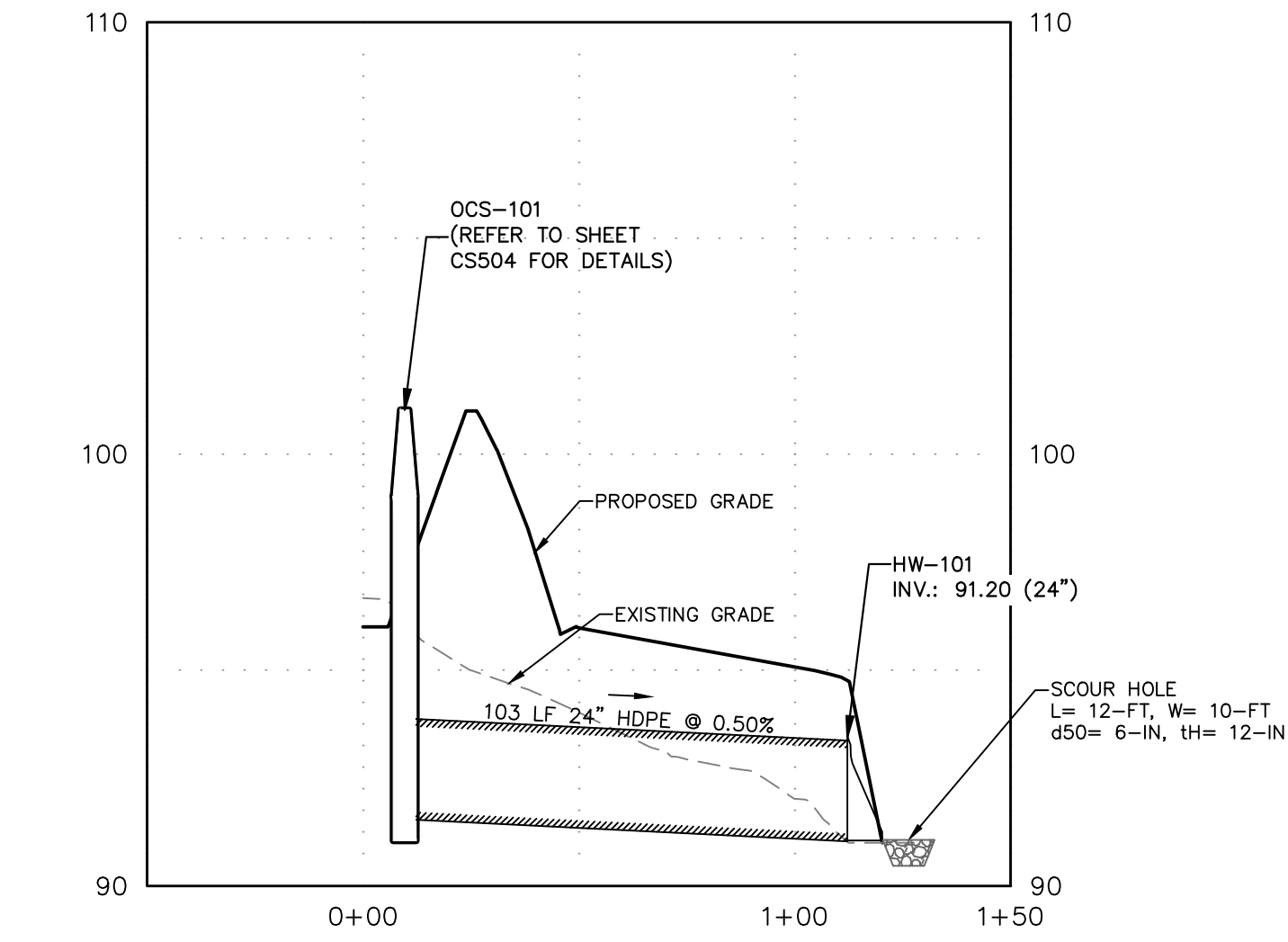
CB-107 TO FES-102 PROFILE



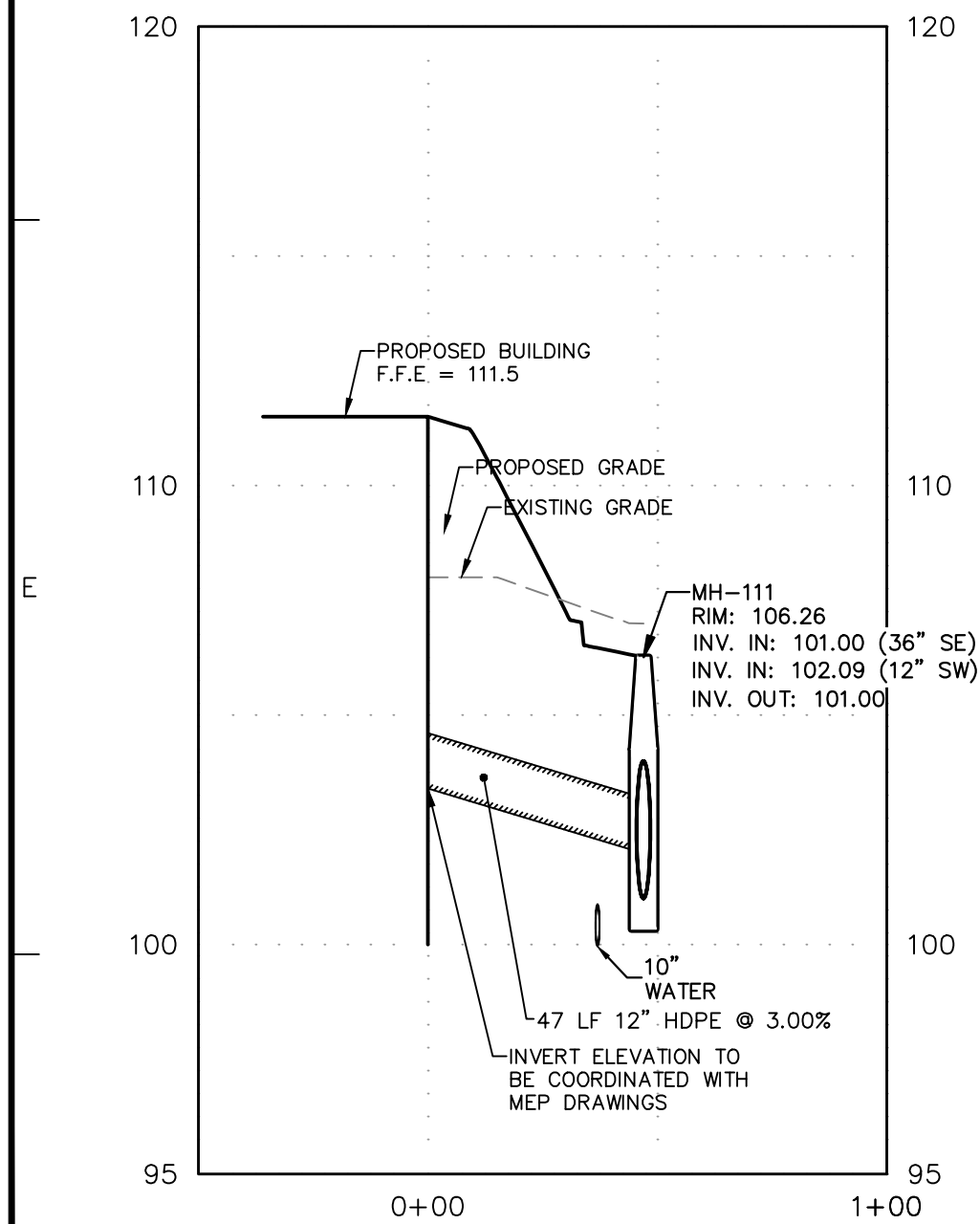
CB-109 TO FES-103 PROFILE



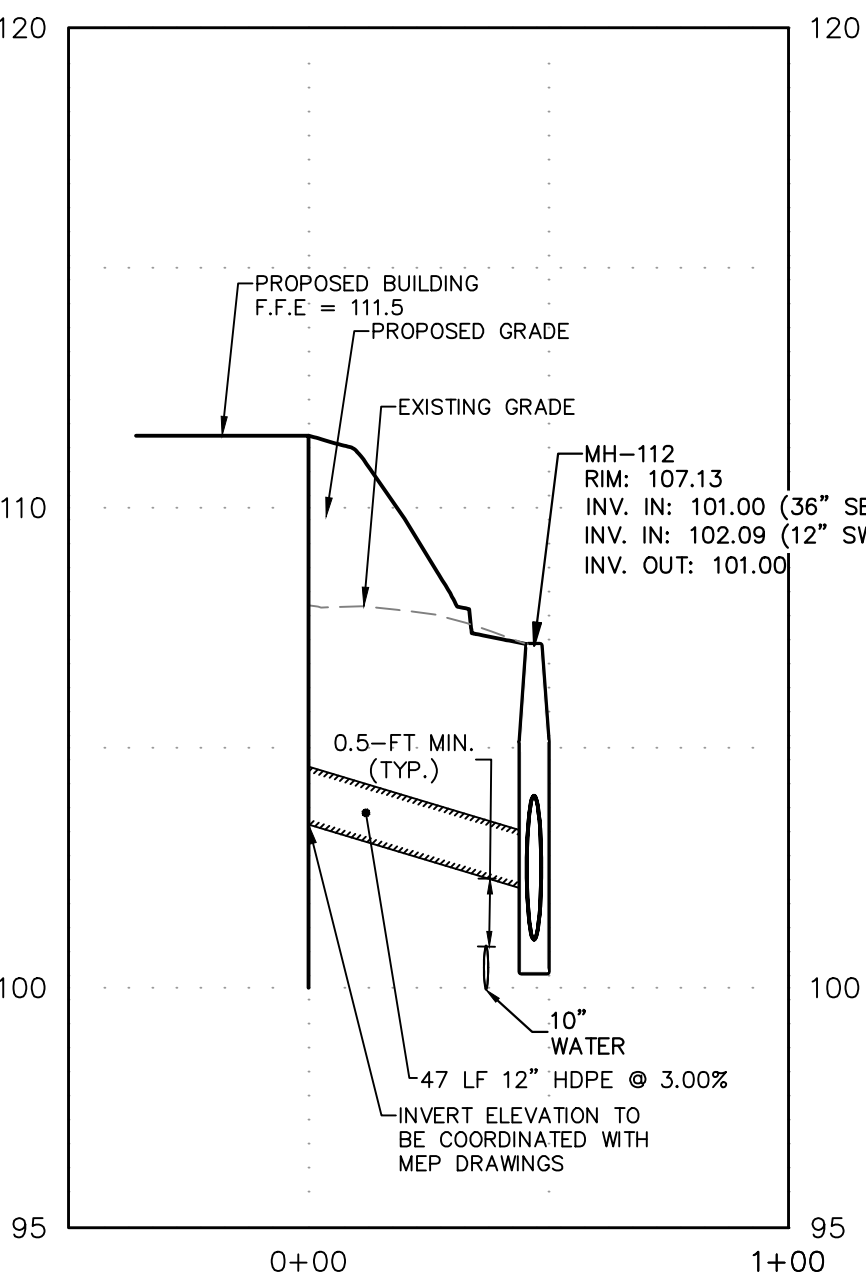
CB-110 TO CB-108 PROFILE



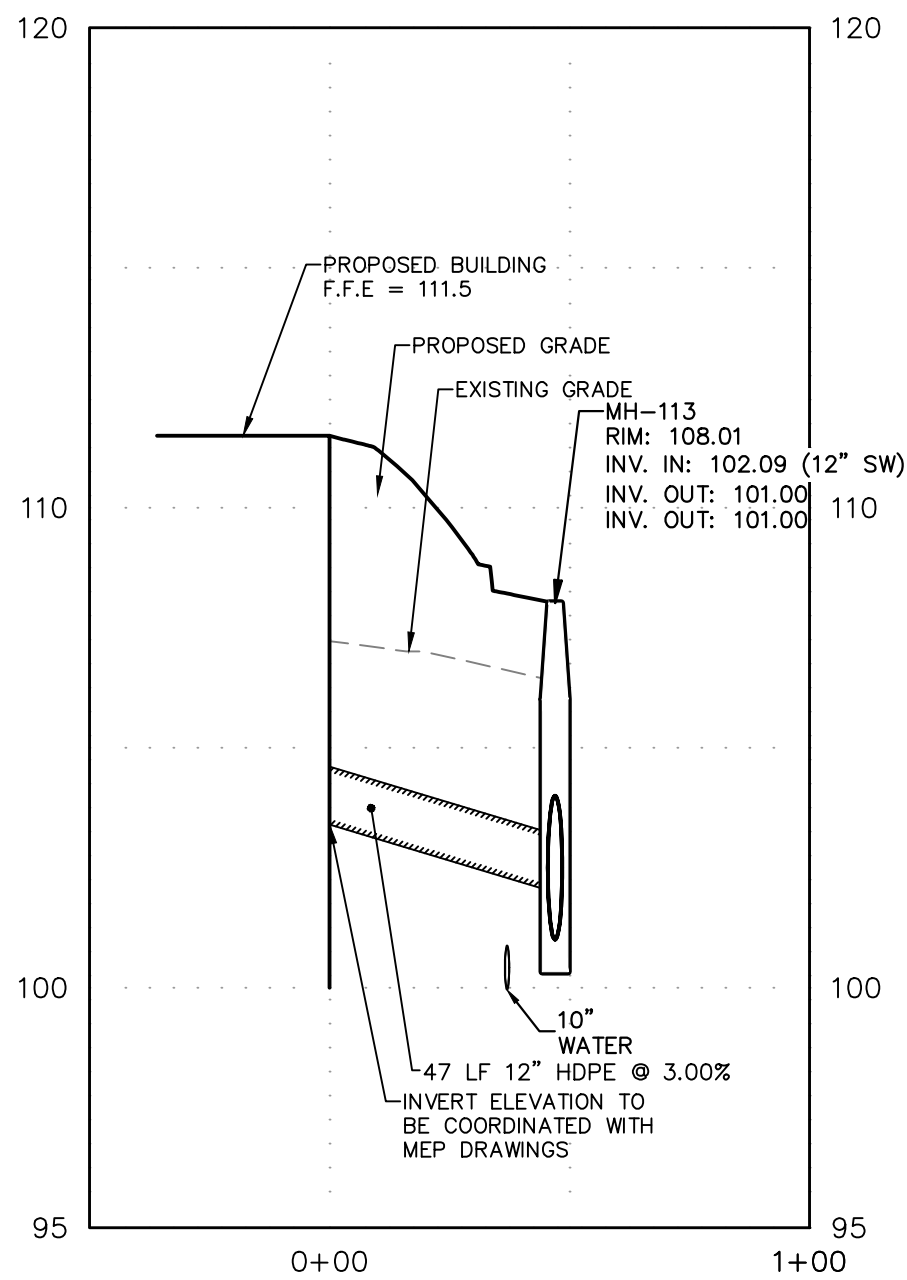
OCS-101 TO HW-101 PROFILE



BLDG TO MH-111 PROFILE



BLDG TO MH-112 PROFILE

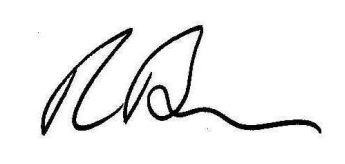


BLDG TO MH-113 PROFILE

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| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

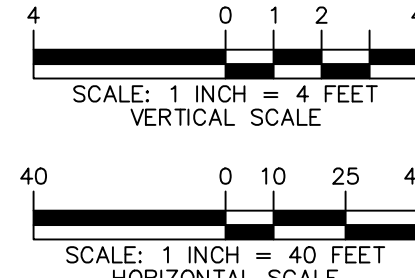
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300 Kimball Drive
Parsippany, NJ 07054

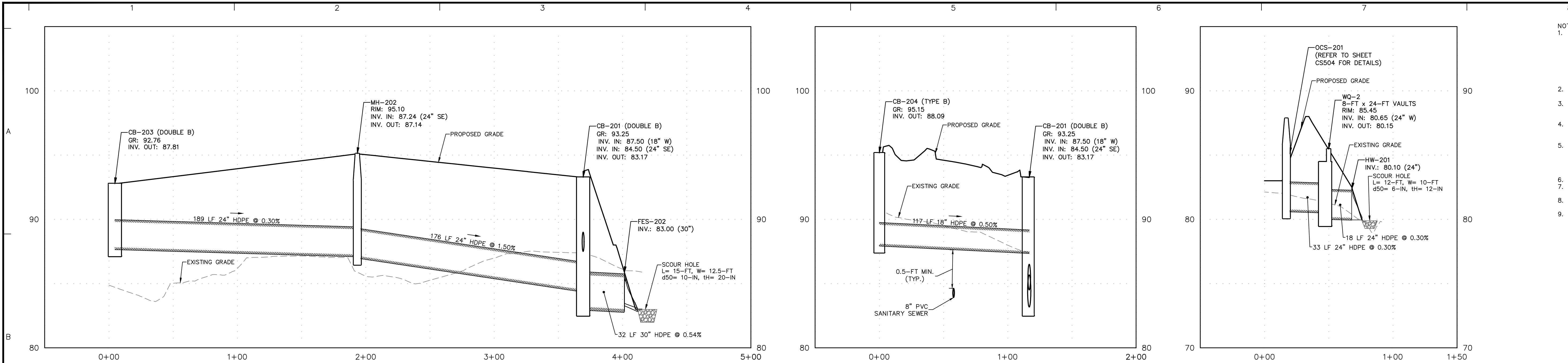
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY

Drawing Title
STORM SEWER PROFILES 1

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. CG201 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | |

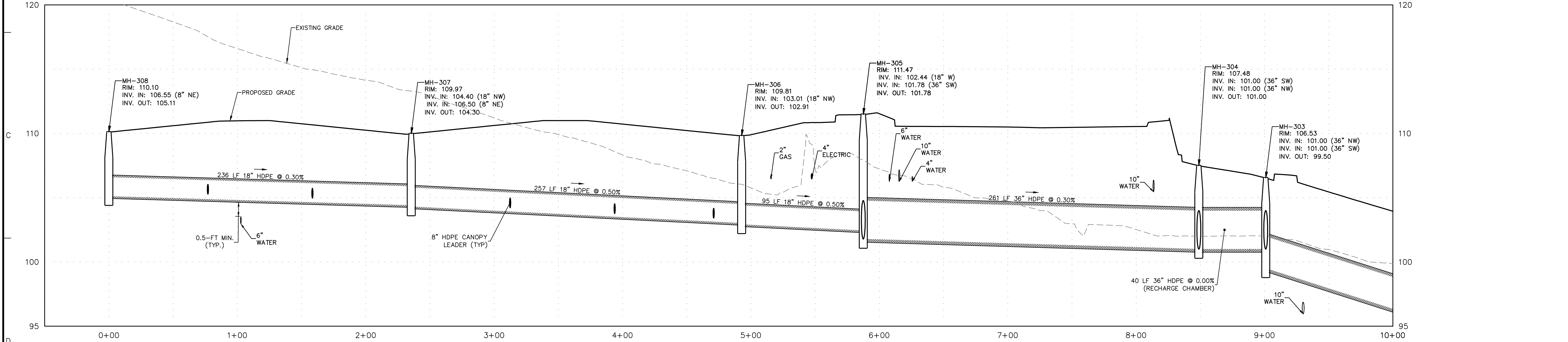




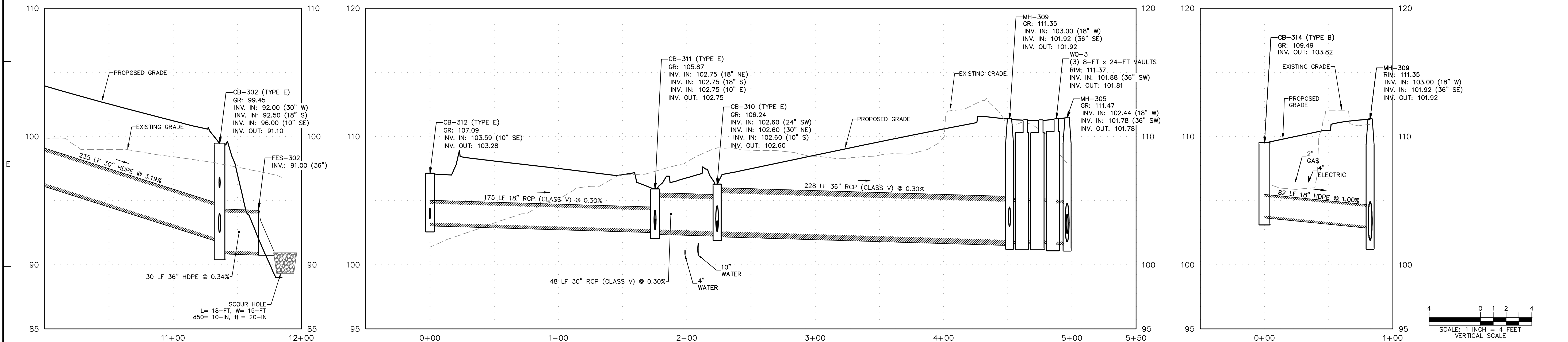
CB-203 TO FES-202 PROFILE

CB-204 TO CB-201 PROFILE

OCS-201 TO HW-201 PROFILE



MH-308 TO MH-303 PROFILE



MH-303 TO FES-302 PROFILE

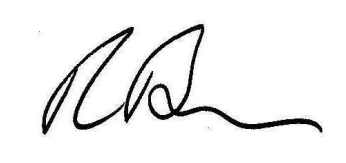
CB-312 TO MH-305 PROFILE

CB-314 TO MH-309 PROFILE

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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

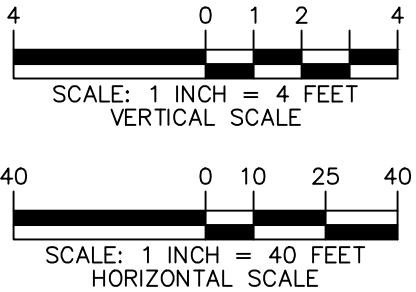
 09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

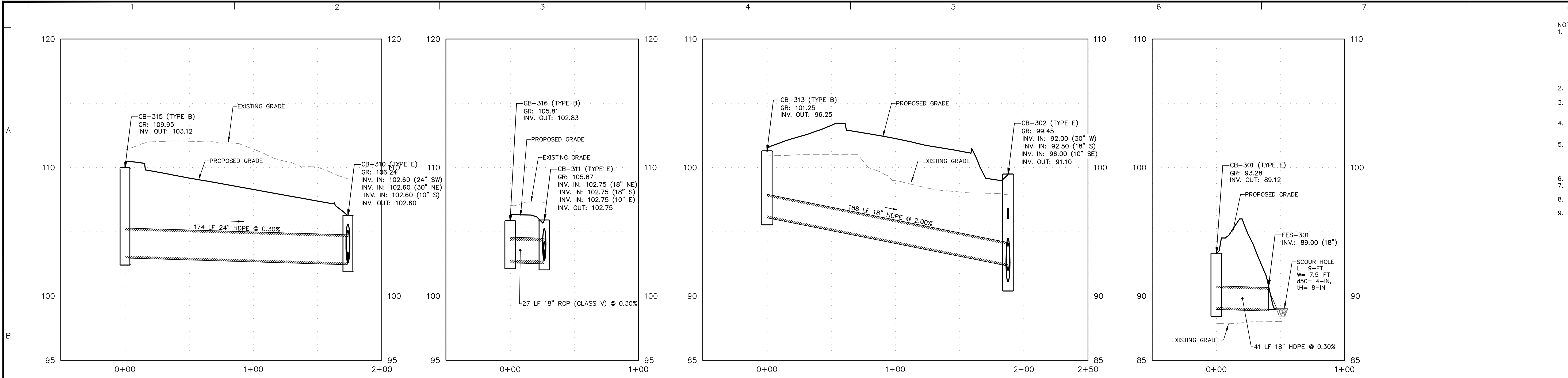
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Project
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY
Drawing Title

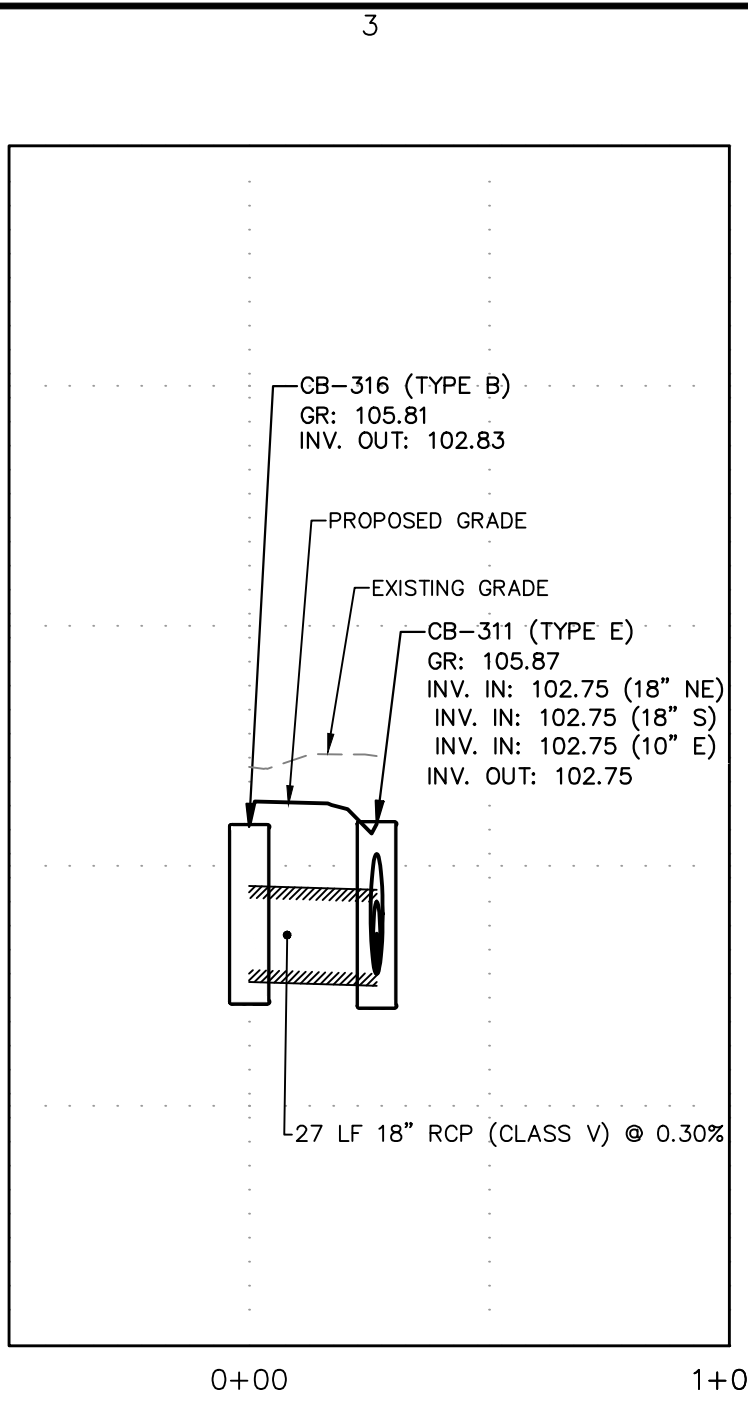
STORM SEWER PROFILES 2

| | |
|-------------|----------------|
| Project No. | Drawing No. |
| 100775501 | CG202 |
| Date | |
| 06/25/2020 | |
| Drawn By | RY |
| Checked By | |
| RB | Sheet 19 of 50 |

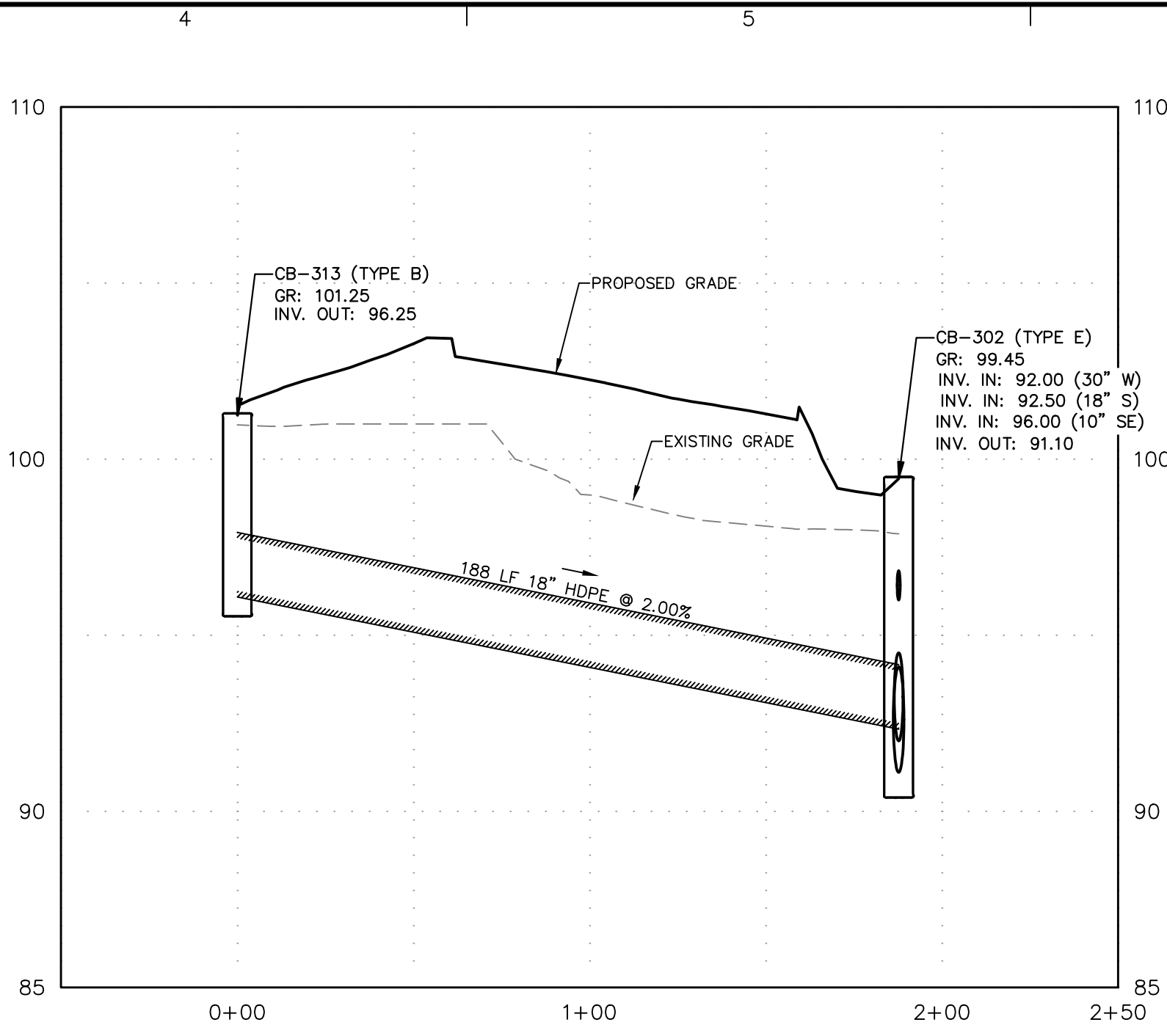




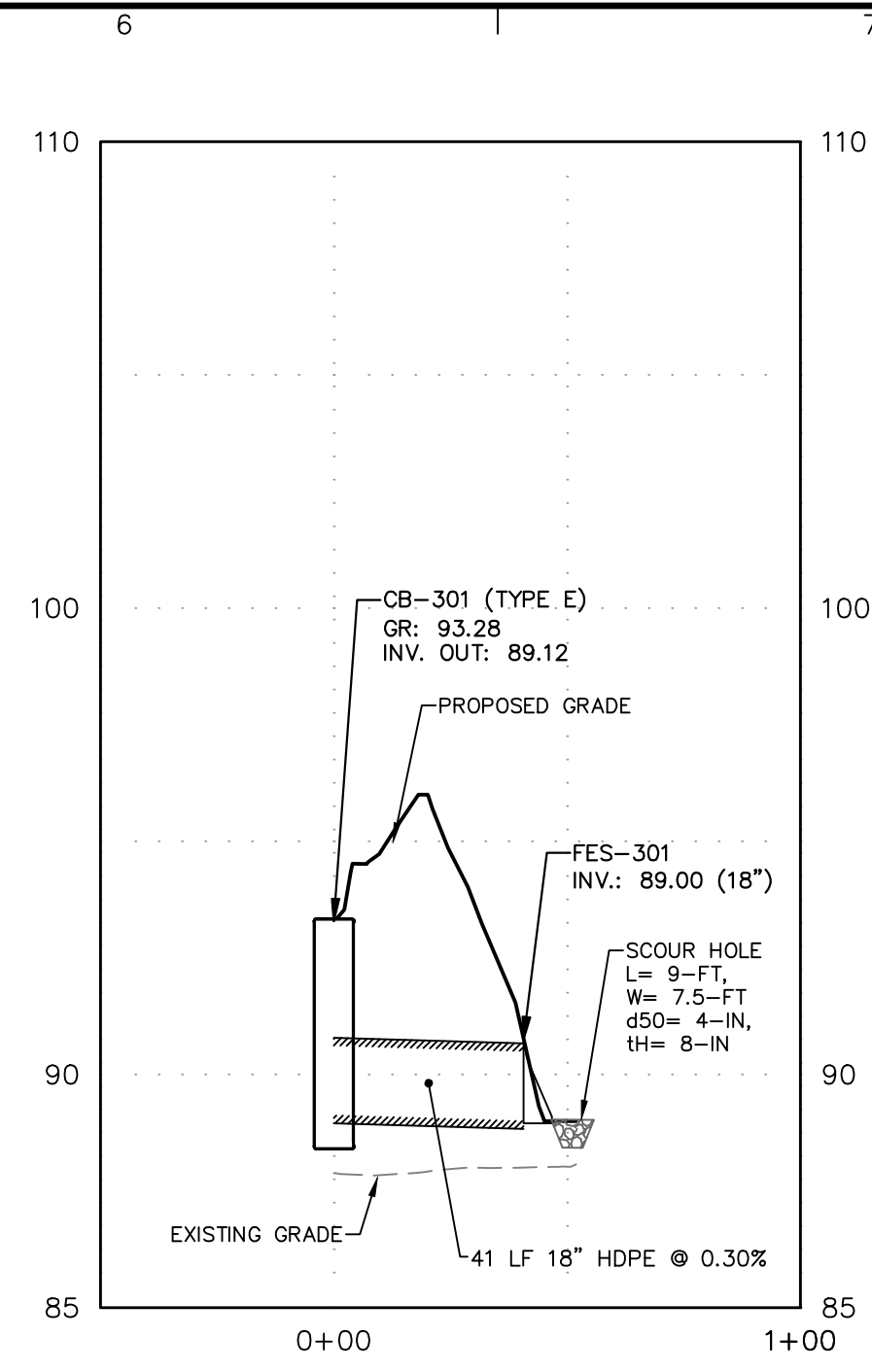
CB-315 TO CB-310 PROFILE



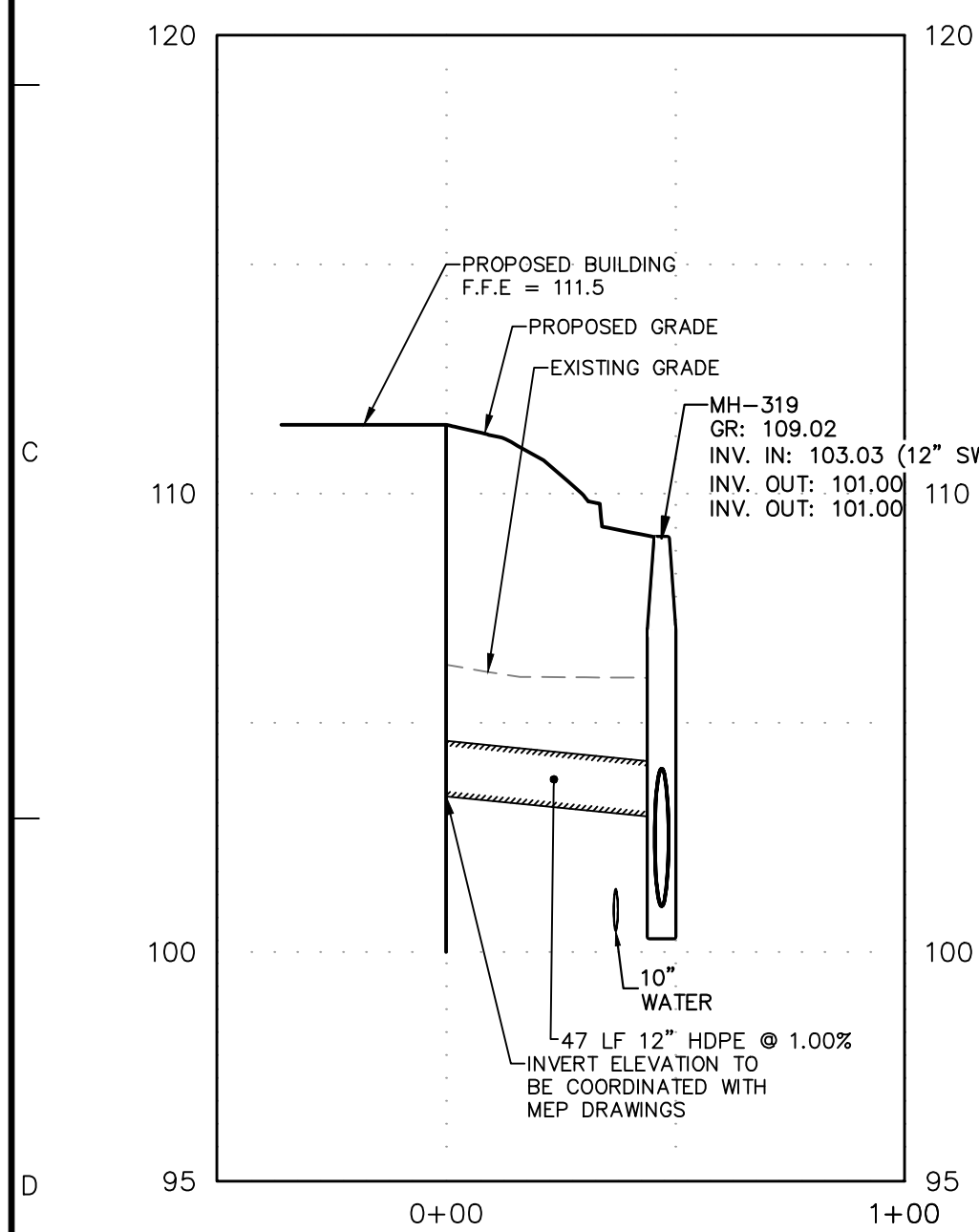
CB-316 TO CB-311 PROFILE



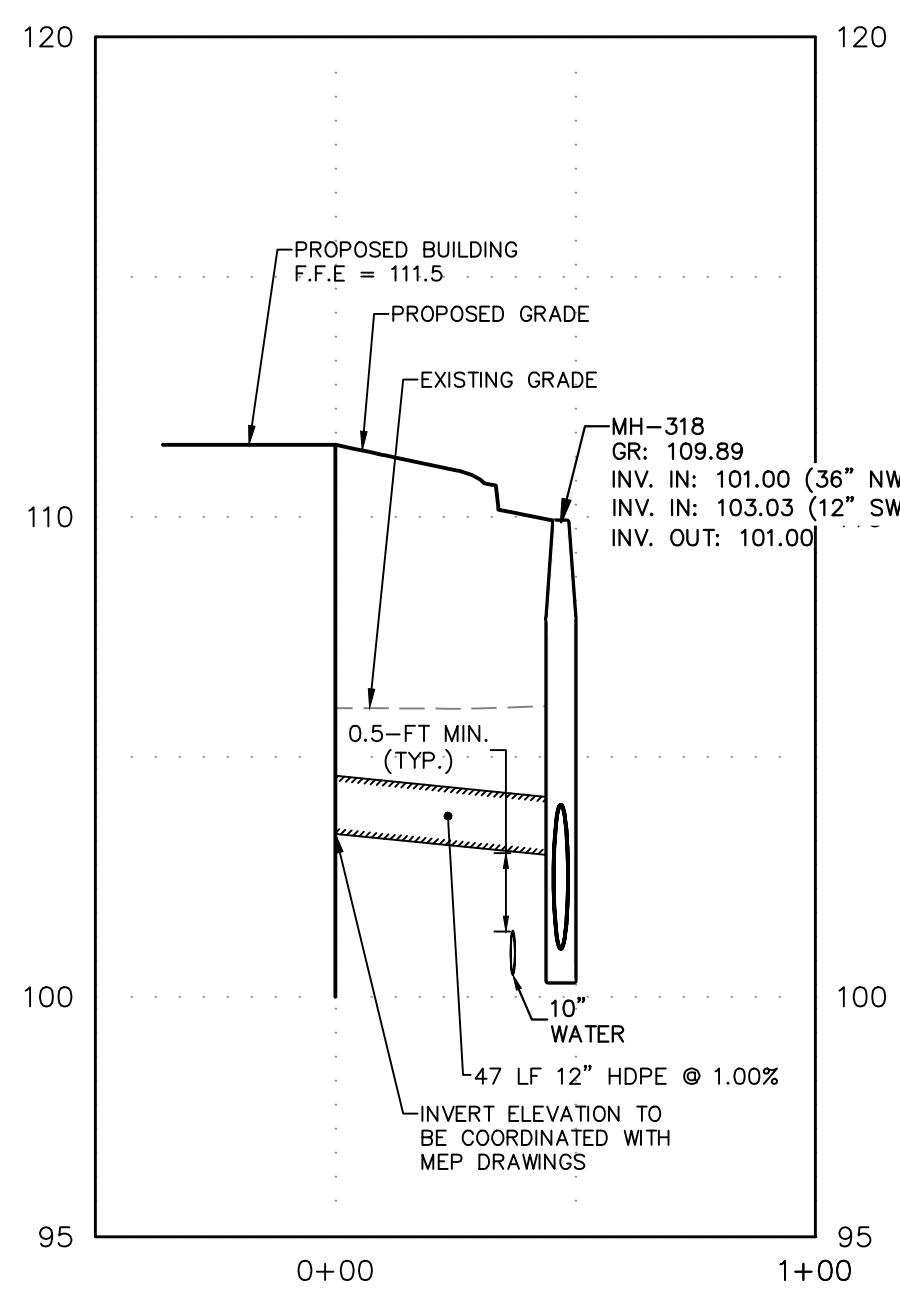
CB-313 TO CB-302 PROFILE



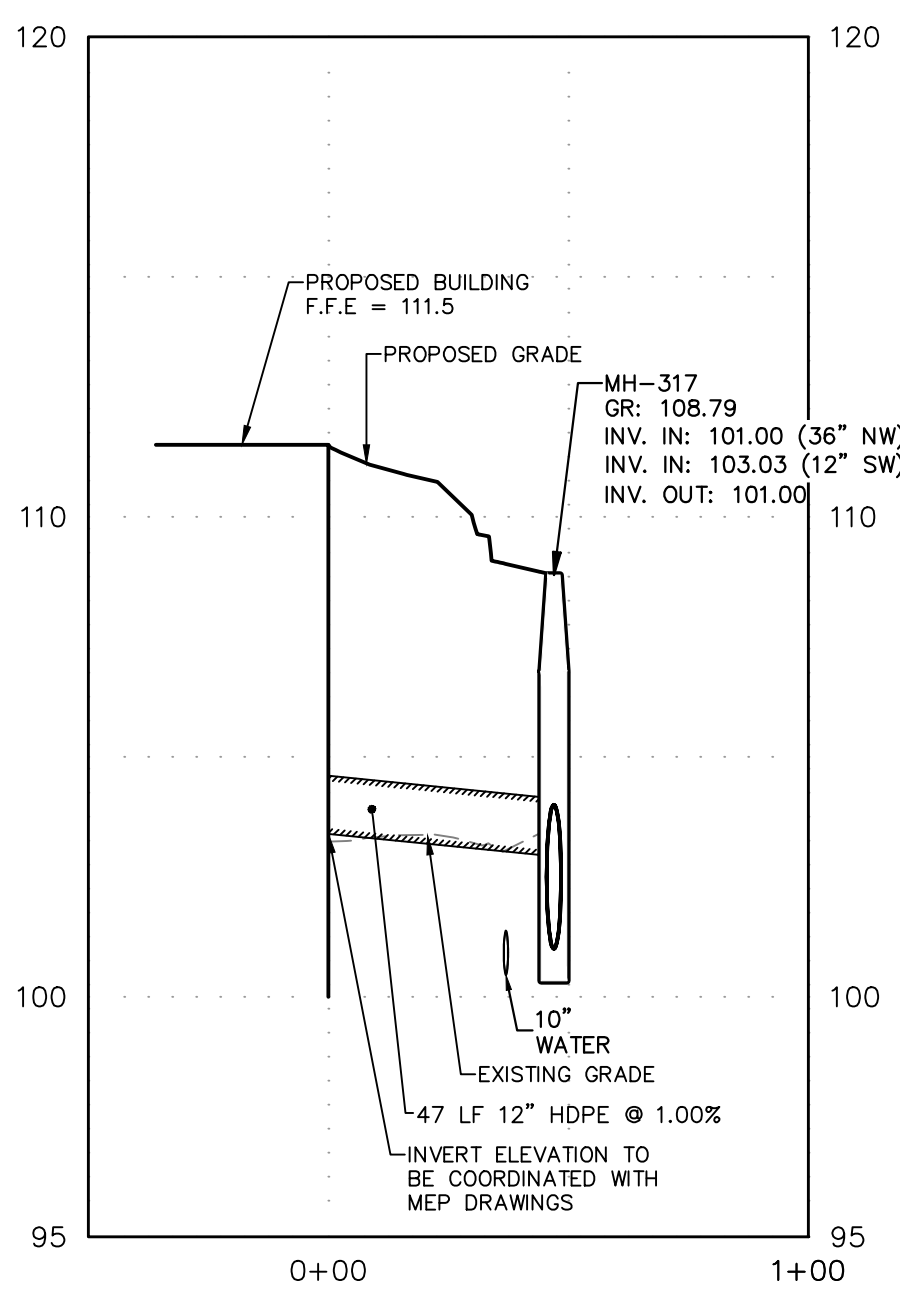
CB-301 TO FES-301 PROFILE



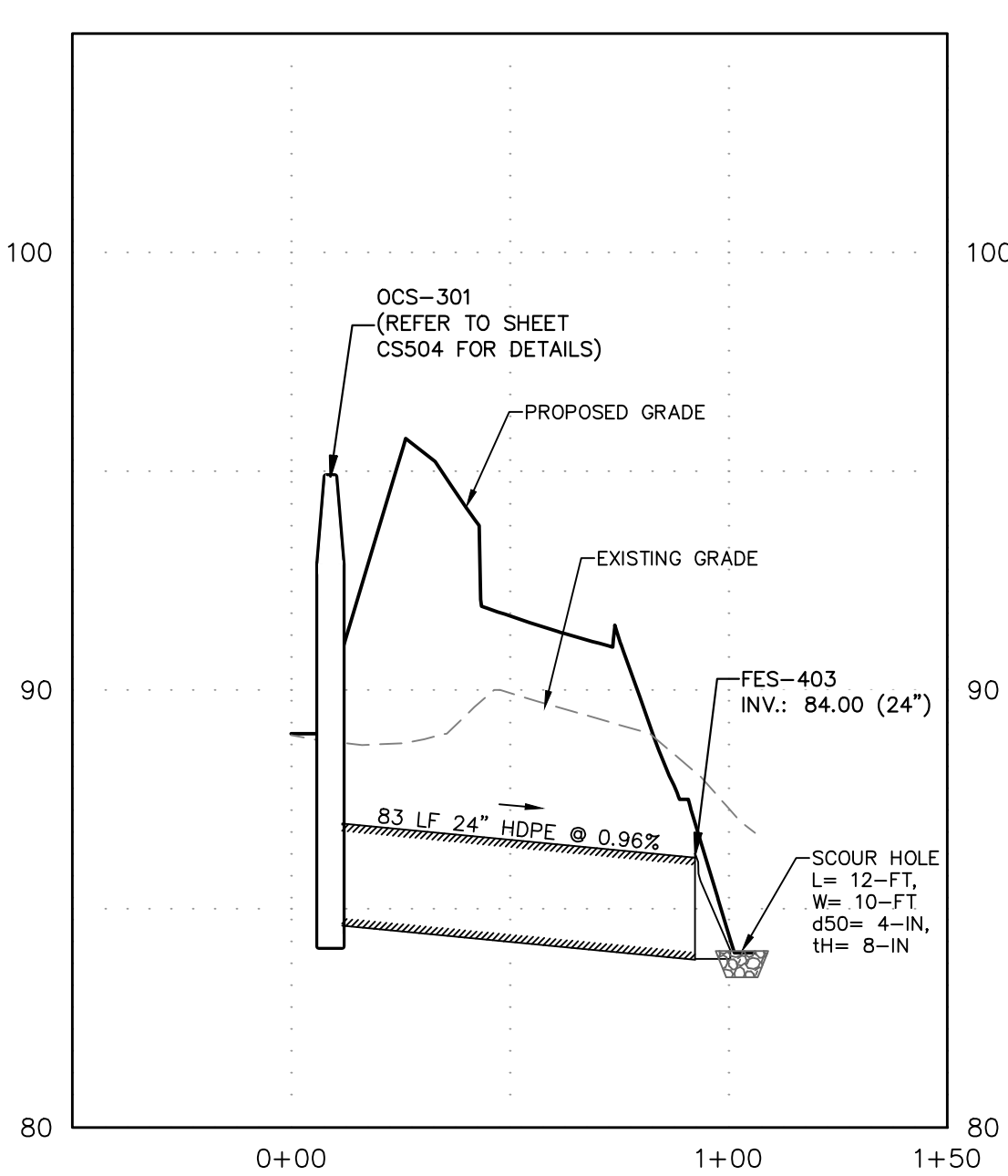
BLDG TO MH-319 PROFILE



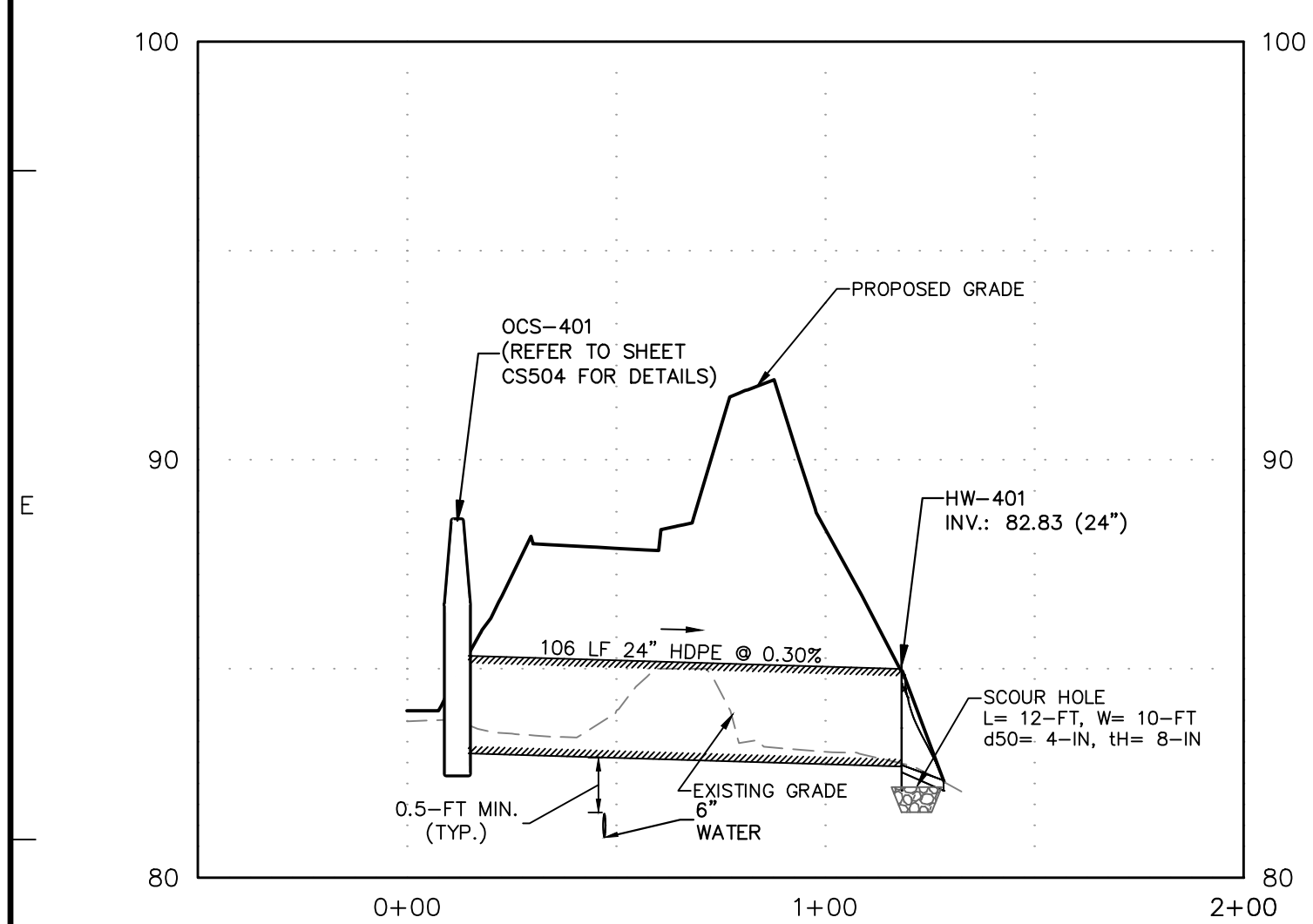
BLDG TO MH-318 PROFILE



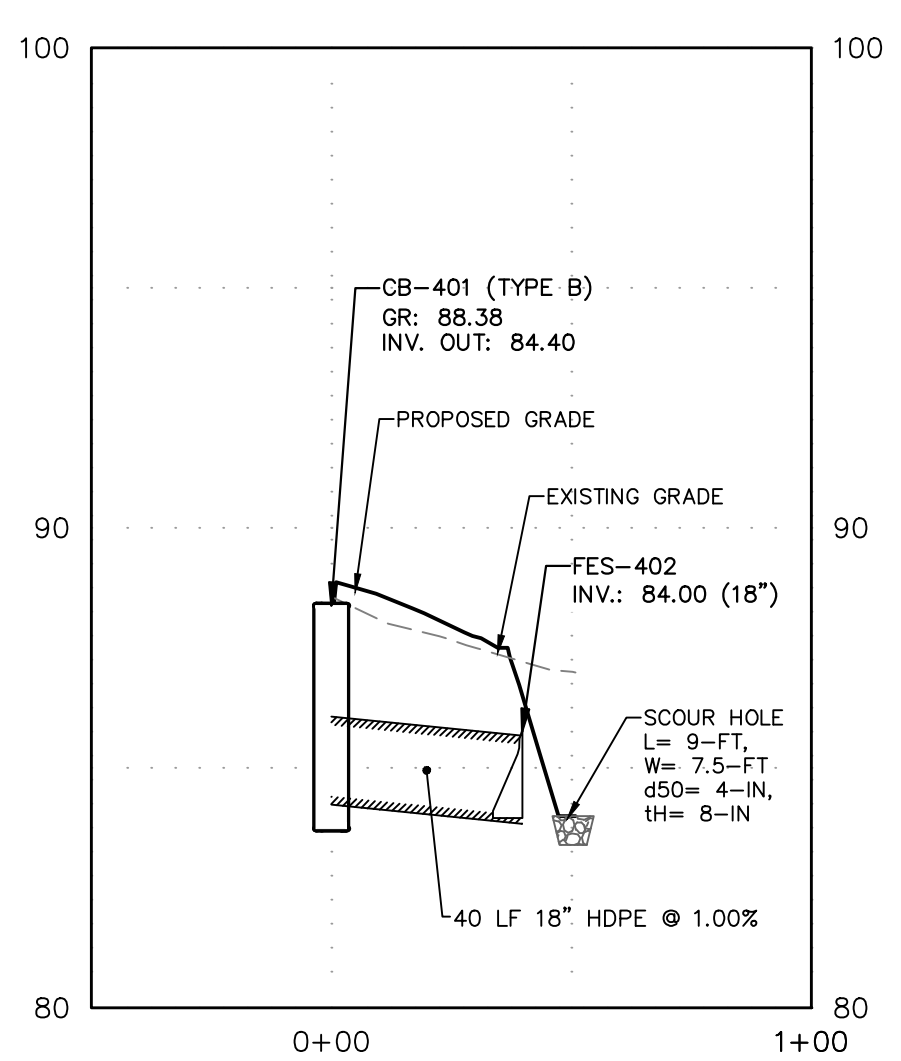
BLDG TO MH-317 PROFILE



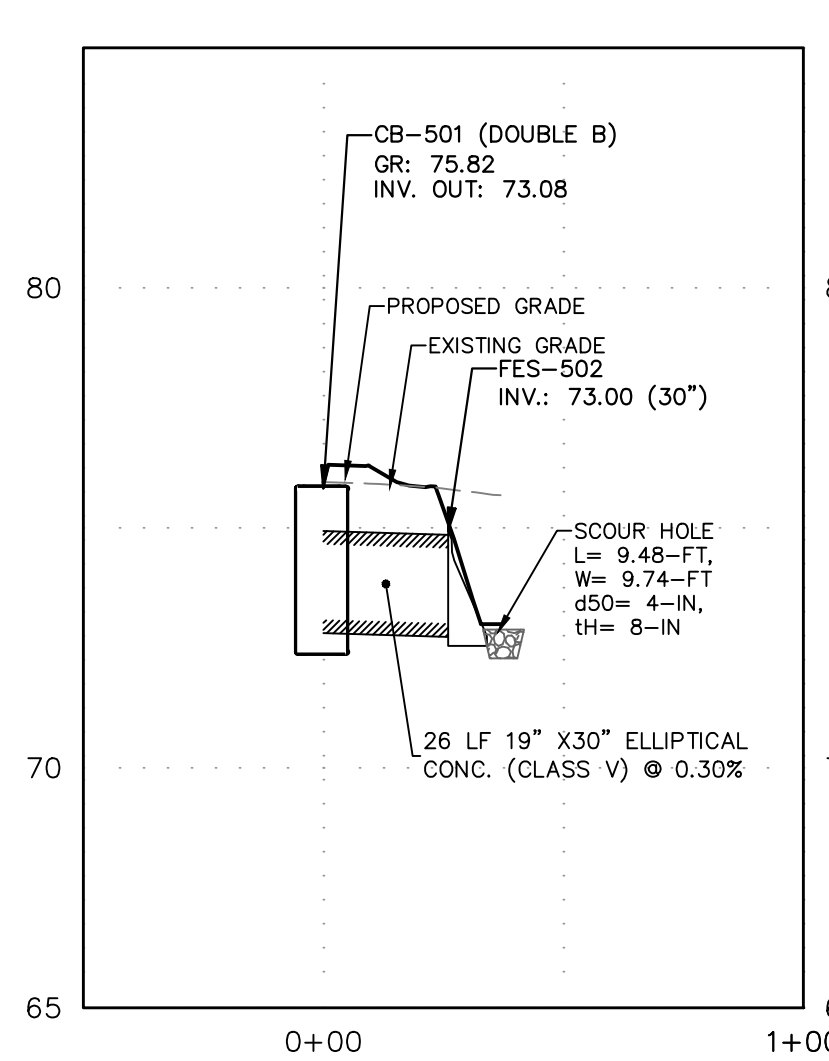
OCS-301 TO FES-403 PROFILE



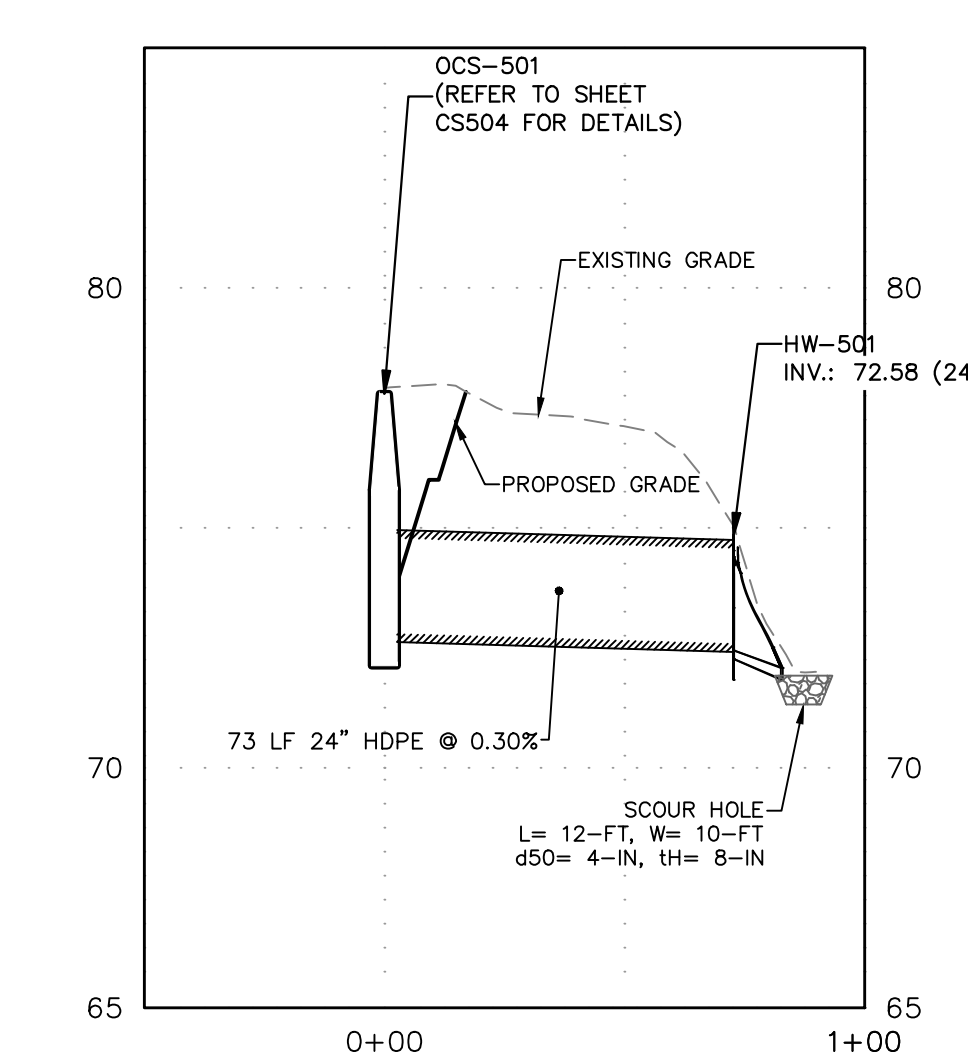
OCS-401 TO HW-401 PROFILE



CB-401 TO FES-402 PROFILE



CB-501 TO FES-502 PROFILE




OCS-501 TO HW-501 PROFILE

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| | | |
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020

SIGNATURE RICHARD BURROW DATE SIGNED
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Project

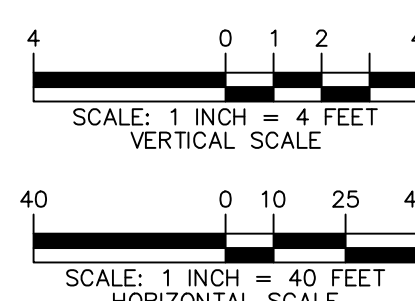
**1251 JUMPING
BROOK ROAD**
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

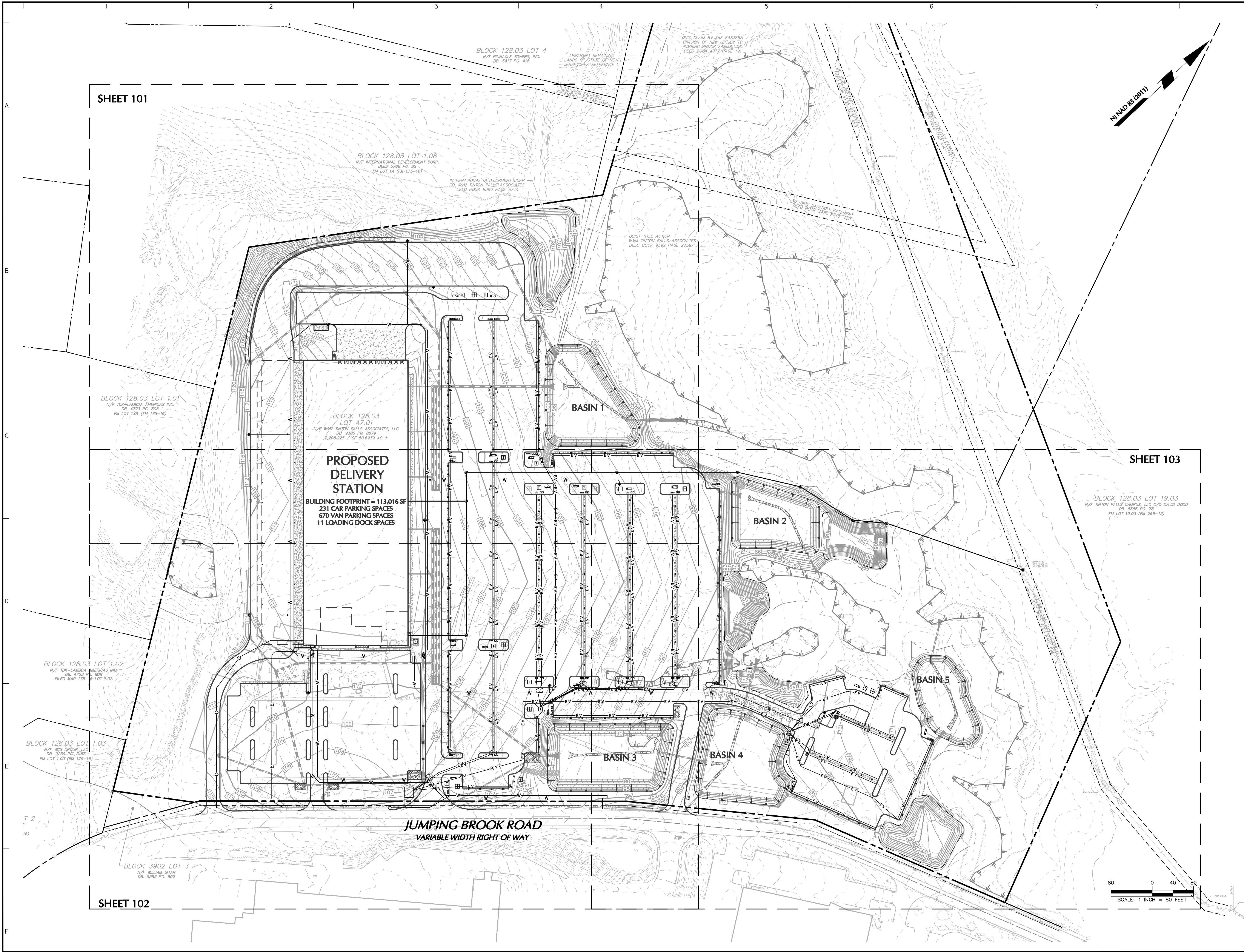
MONMOUTH COUNTY NEW JERSEY

Drawing Title

**STORM SEWER
PROFILES 3**

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. CG203 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | |
| Sheet 20 of 50 | |






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 - CONTRACTOR TO BEGIN PIPE NETWORK CONSTRUCTION AT TIE-IN LOCATION AND BUILD UPSTREAM.
 - GAS, ELECTRIC, AND TELECOM SERVICE NETWORKS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER, ARCHITECT, AND MEP ENGINEER TO DETERMINE ACTUAL LOCATION AND SERVICE SIZE. CONCRETE ENCASEMENT SHALL BE PROVIDED, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY CROSSING DETAILS.
 - THERE SHALL BE A MINIMUM VERTICAL SEPARATION DISTANCE OF 18 INCHES BETWEEN SANITARY SEWERS AND WATER LINES. UNLESS OTHERWISE SPECIFIED, IN AREAS WHERE THIS VERTICAL SEPARATION DISTANCE IS NOT FEASIBLE, SANITARY SEWER SHALL BE CONCRETE ENCASED. ENCASEMENT SHALL EXTEND A MINIMUM OF 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, THERE SHALL BE A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATER LINES.
 - ALL WATER LINES SHALL HAVE A MINIMUM 4'-FT COVER.
 - ALL SANITARY LATERAL CLEANOUTS AND MANHOLES SHALL BE HEAVY DUTY AND TRAFFIC RATED.
 - ALL SANITARY SEWER LATERALS SHALL BE PVC (SDR 35) UNLESS OTHERWISE SPECIFIED.
 - WHERE APPLICABLE, HYDRANTS SHALL BE INSTALLED A MINIMUM OF 2.5 FEET FROM FROM BACK OF CURB.
 - ALL WATER LINES SHALL BE C900 UNLESS OTHERWISE SPECIFIED.
 - PRIVATE FIRE MAINS SHALL CONFORM TO NFPA24. CONCRETE ENCASEMENT SHALL BE PROVIDED, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY CROSSING DETAILS.
 - ALL WATER LINES SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S REQUIREMENTS.
 - FINAL FIRE DESIGN WILL BE BASED ON FIRE PROTECTION DRAWINGS.
 - CONTRACTOR SHALL COORDINATE GAS SERVICE WITH THE GOVERNING AUTHORITY.
 - EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
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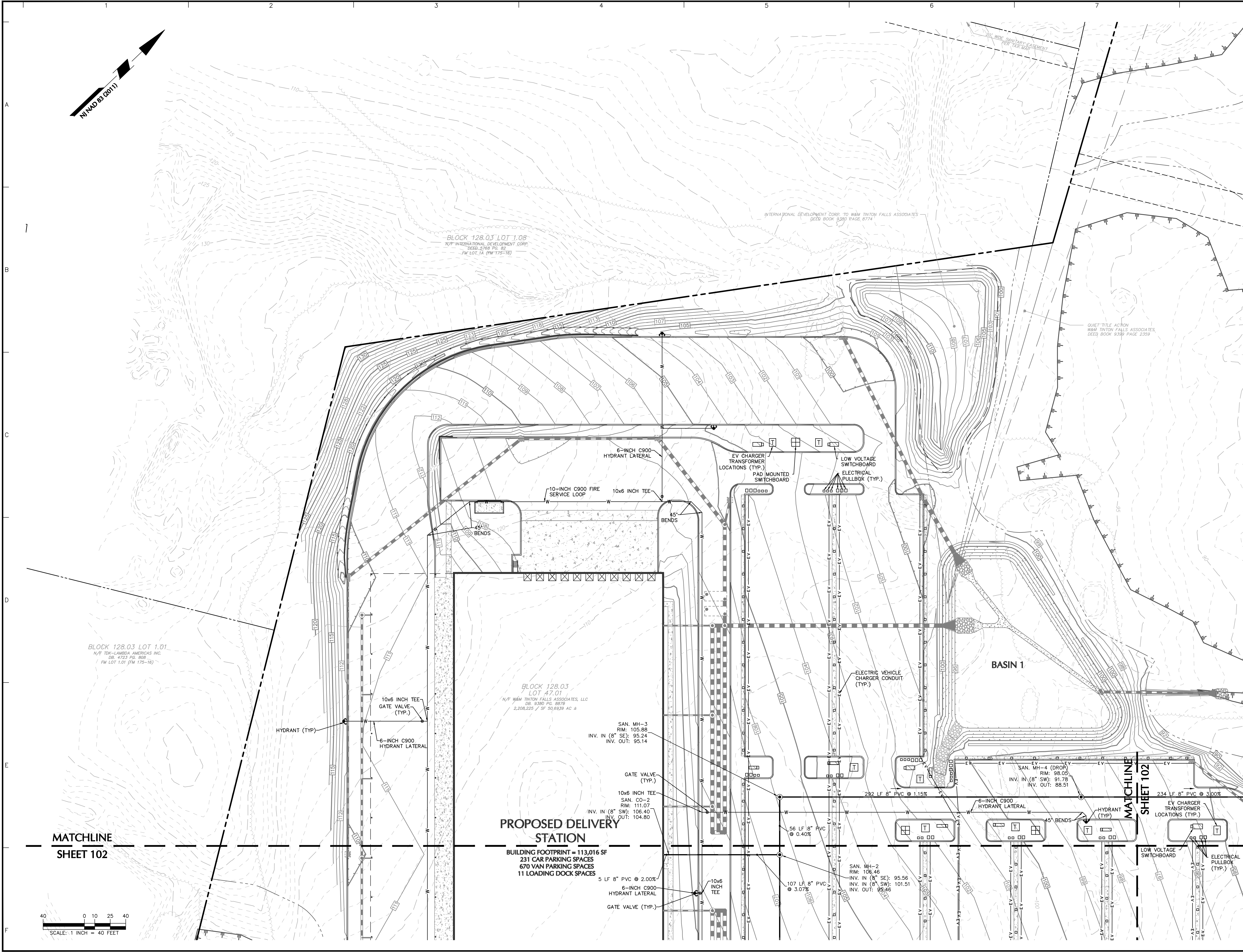
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

OVERALL UTILITY PLAN


| | |
|----------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CU100 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet 21 of 50 | |



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 3. CONTRACTOR TO CONFIRM ALL STRUCTURE INVERTS AND NOTIFY ENGINEER OF ANY INCONSISTENCIES PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO BEGIN PIPE NETWORK CONSTRUCTION AT TIE-IN LOCATION AND BUILD UPSTREAM.
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 6. THERE SHALL BE A MINIMUM VERTICAL SEPARATION DISTANCE OF 18 INCHES BETWEEN SANITARY SEWERS AND WATER LINES, UNLESS OTHERWISE SPECIFIED. IN AREAS WHERE THIS VERTICAL SEPARATION DISTANCE IS NOT FEASIBLE, SANITARY SEWER SHALL BE CONCRETE ENCASED. ENCASEMENT SHALL EXTEND A MINIMUM OF 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, THERE SHALL BE A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATER LINES.
 7. ALL WATER LINES SHALL HAVE A MINIMUM 4'-FT COVER.
 8. ALL SANITARY LATERAL CLEANOUTS AND MANHOLES SHALL BE HEAVY DUTY AND TRAFFIC RATED.
 9. ALL SANITARY SEWER LATERALS SHALL BE PVC (SDR 35) UNLESS OTHERWISE SPECIFIED.
 10. WHERE APPLICABLE, HYDRANTS SHALL BE INSTALLED A MINIMUM OF 2.5 FEET FROM FROM BACK OF CURB.
 11. ALL WATER LINES SHALL BE C900 UNLESS OTHERWISE SPECIFIED.
 12. PRIVATE FIRE MAINS SHALL CONFORM TO NFPA24. CONCRETE ENCASEMENT SHALL BE PROVIDED, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY CROSSING DETAILS.
 13. ALL WATER LINES SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S REQUIREMENTS.
 14. FINAL FIRE DESIGN WILL BE BASED ON FIRE PROTECTION DRAWINGS.
 15. CONTRACTOR SHALL COORDINATE GAS SERVICE WITH THE GOVERNING AUTHORITY.
 16. EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS


SIGNATURE RICHARD BURROW DATE SIGNED 09-21-2020
PROFESSIONAL ENGINEER NJ Lic. No. 243E04459300

LANGAN
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T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

**1251 JUMPING
BROOK ROAD**

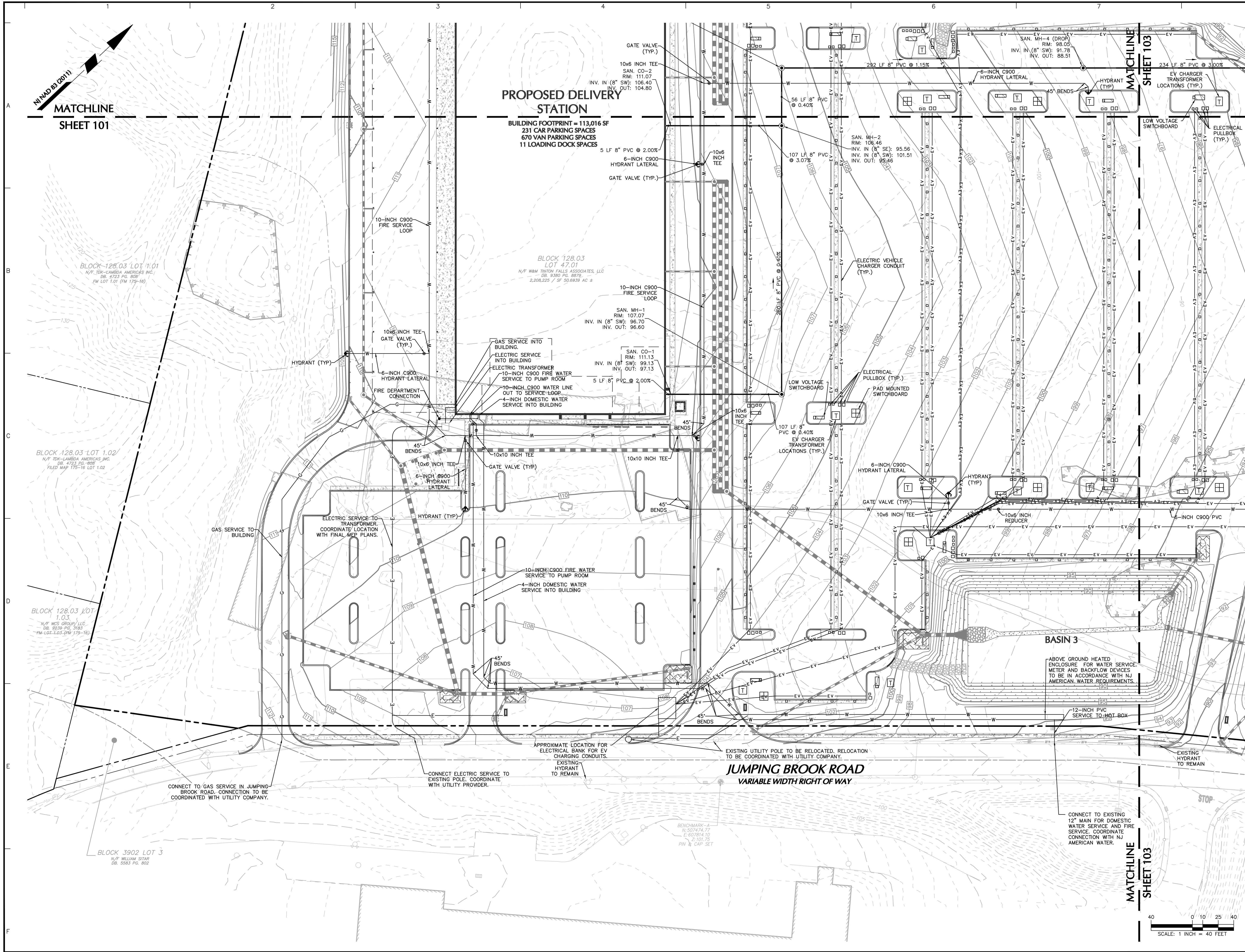
**BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47**

MONMOUTH COUNTY **NEW JERSEY**

Drawing Title

**PARTIAL UTILITY
PLAN 1**


| | |
|-------------------|-----------------------|
| Project No. | Drawing No. |
| 100775501 | CU101 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |
| | Sheet 22 of 50 |



- NOTES:
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

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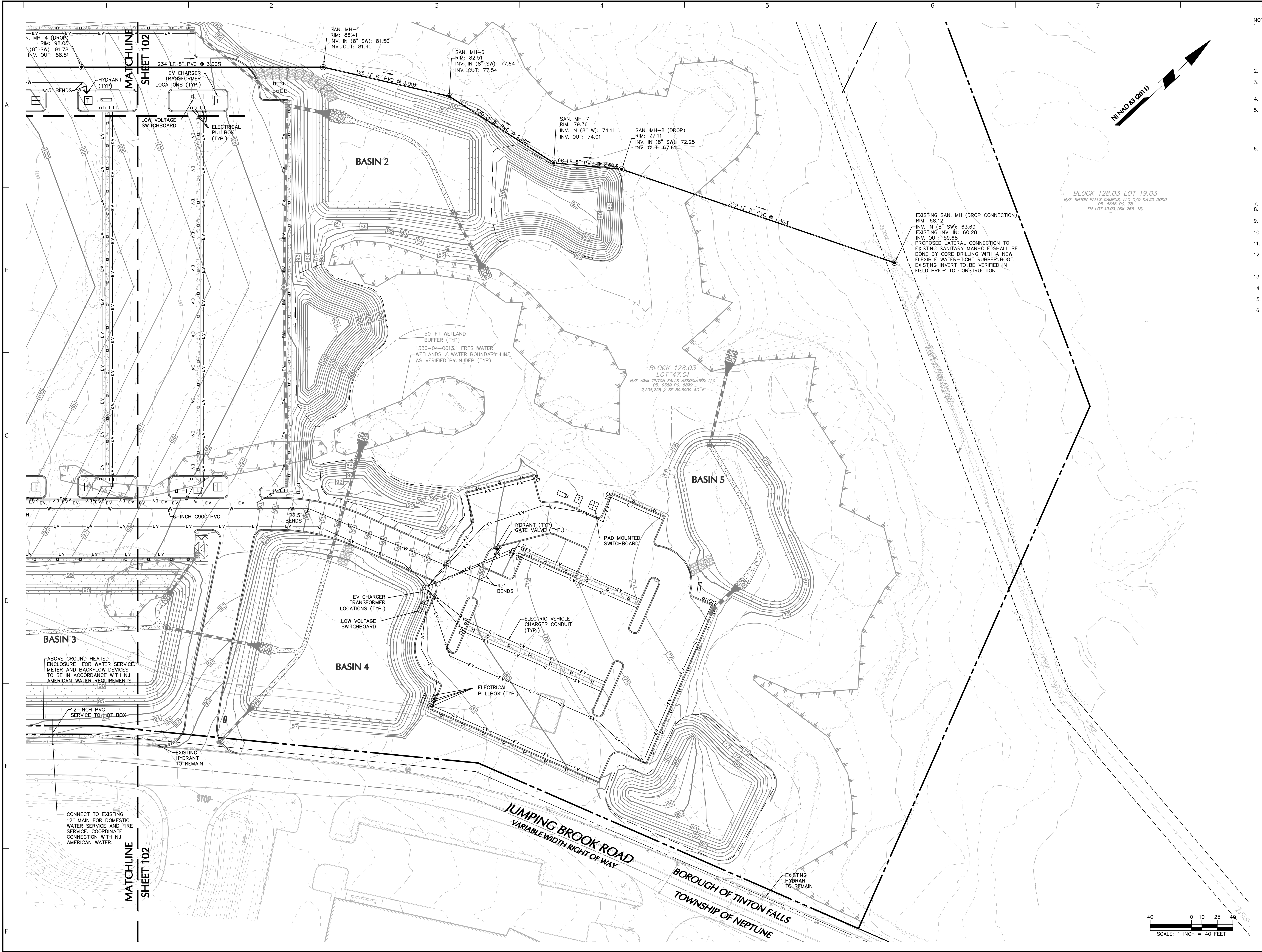
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

PARTIAL UTILITY PLAN 2


| | |
|-------------|----------------|
| Project No. | Drawing No. |
| 100775501 | CU102 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| | Sheet 23 of 50 |



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS" LAND TITLE SURVEY DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS


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Project

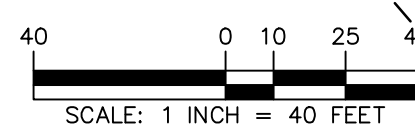
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

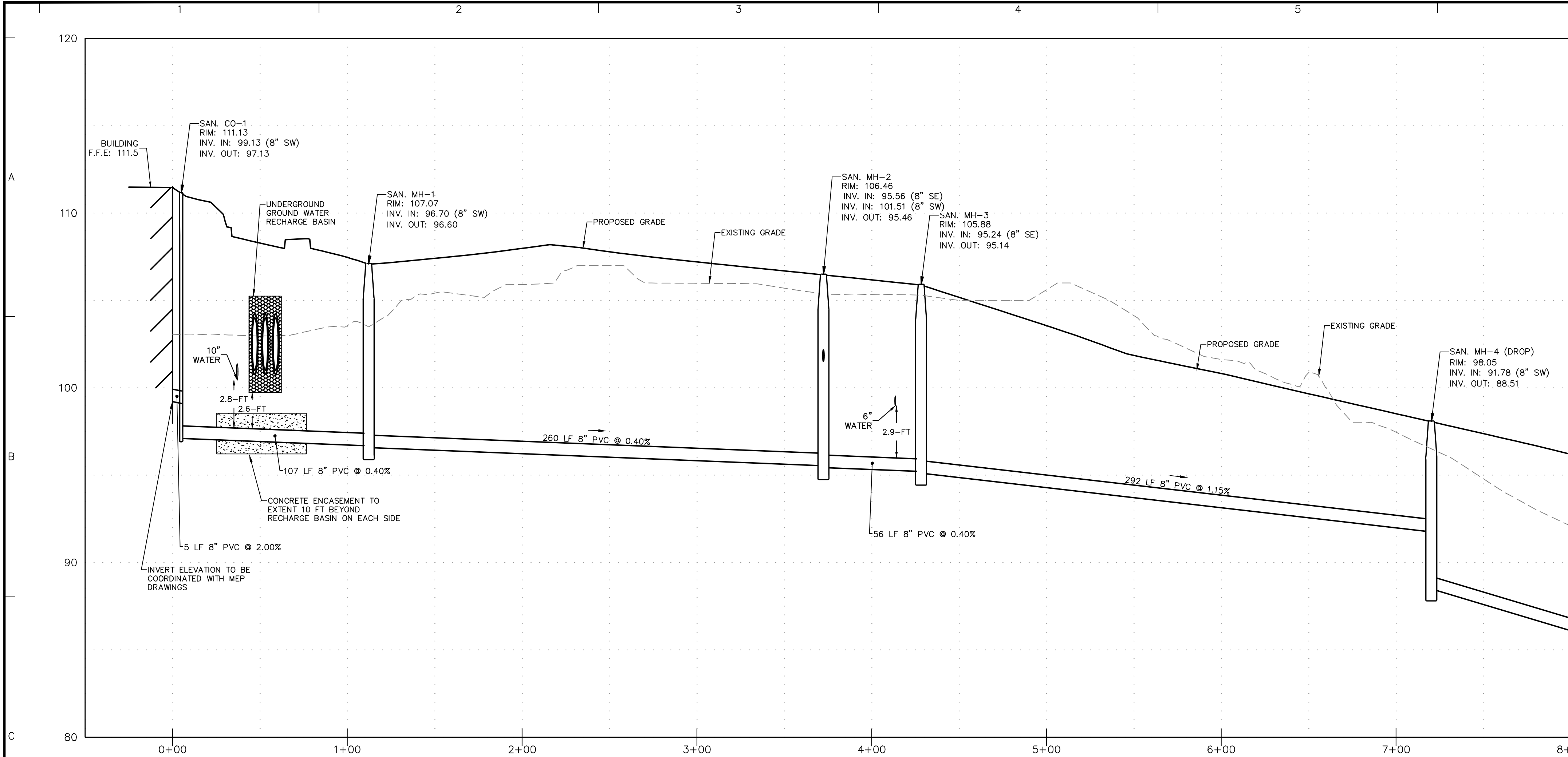
MONMOUTH COUNTY NEW JERSEY

Drawing Title

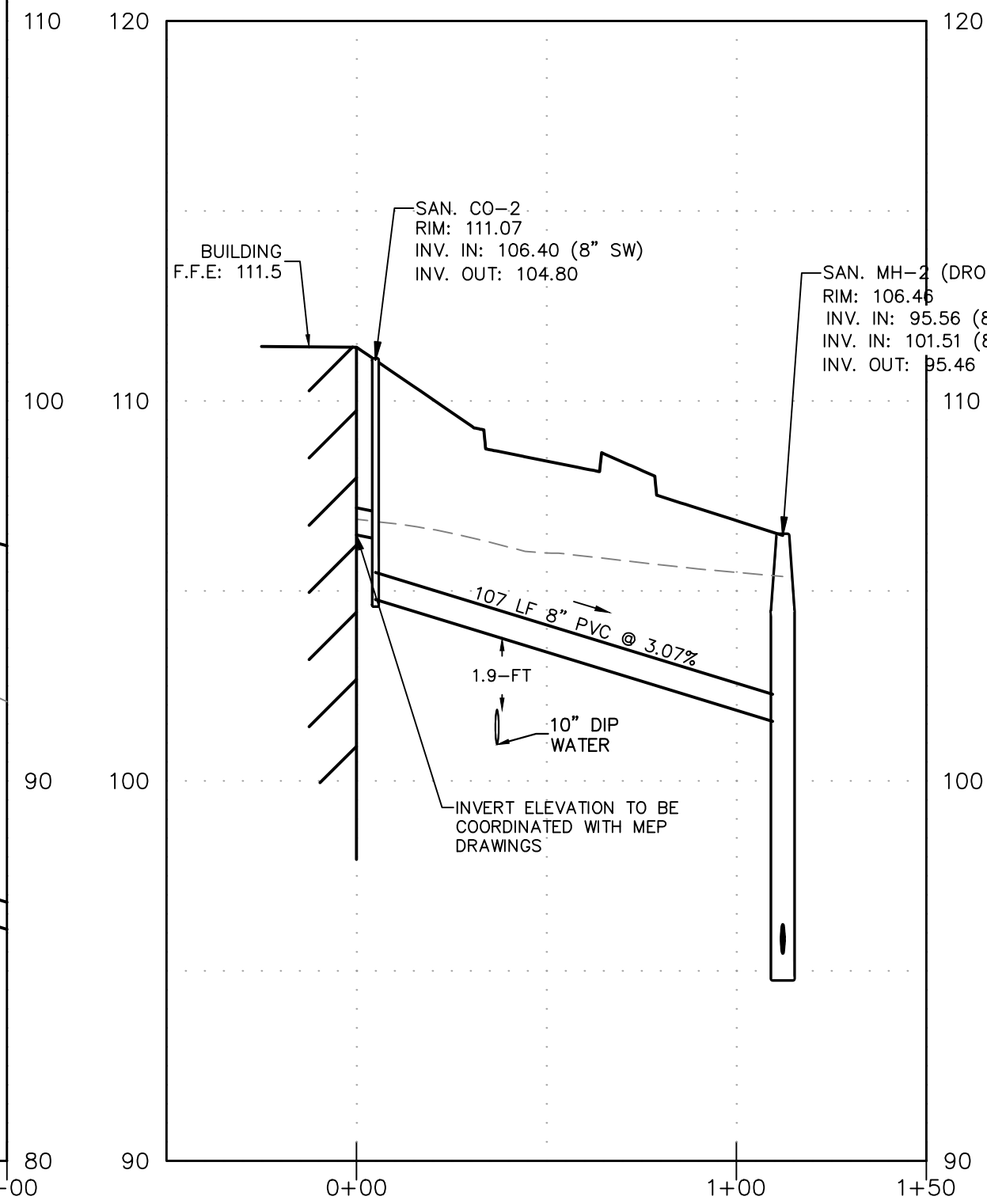
PARTIAL UTILITY PLAN 3

| | |
|-------------|----------------|
| Project No. | Drawing No. |
| 100775501 | CU103 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| | Sheet 24 of 50 |

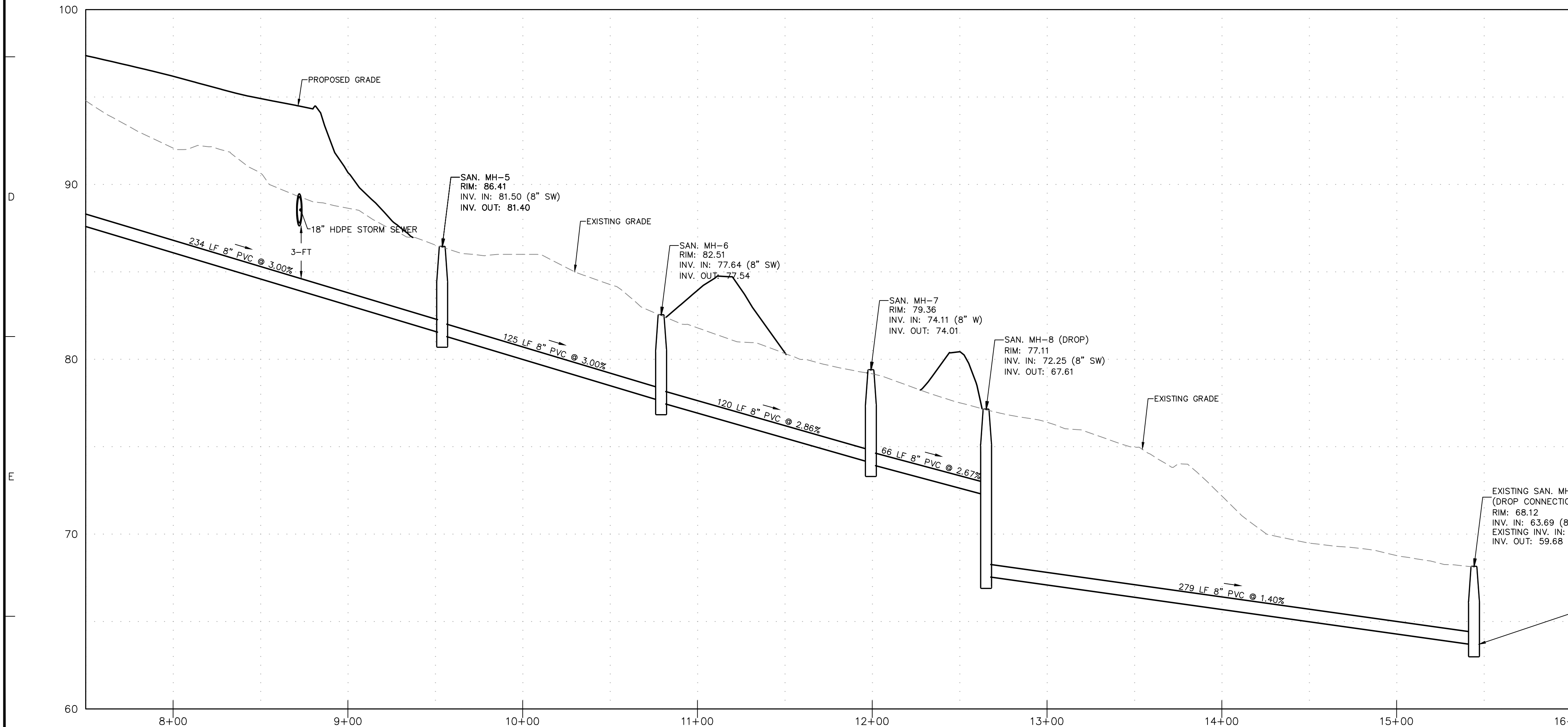




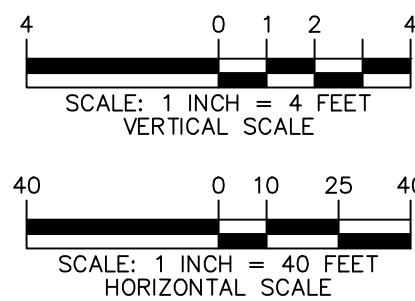
BLDG-CONNECTION TO SAN. MH-3 PROFILE



SAN. CO-2 TO SAN. MH-2 PROFILE




SAN. MH-3 TO EXISTING SAN. MH PROFILE



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 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. PLAN VIEW OF PROFILES CAN BE FOUND ON THE UTILITY PLAN AND/OR DRAINAGE PLAN.
 4. PIPE LENGTHS REPRESENT THE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 5. PIPE INVERT ELEVATIONS REPRESENT THE THEORETICAL ELEVATIONS OF THE PIPE AT THE CENTER OF STRUCTURE.
 6. MANHOLES AND CATCH BASINS SHOWN IN THE PROFILES ARE GRAPHICAL REPRESENTATIONS AND ARE NOT INTENDED TO SPECIFY A SIZE OR TYPE OF STRUCTURE.
 7. THERE SHALL BE A MINIMUM VERTICAL SEPARATION DISTANCE OF 18 INCHES BETWEEN SANITARY SEWERS AND WATER LINES, UNLESS OTHERWISE SPECIFIED. IN AREAS WHERE THIS VERTICAL SEPARATION DISTANCE IS NOT FEASIBLE, SANITARY SEWER SHALL BE CONCRETE ENCASED. ENCASEMENT SHALL EXTEND A MINIMUM OF 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, THERE SHALL BE A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATER LINES.
 8. ALL WATER LINES SHALL HAVE A MINIMUM 4'-FT COVER.
 9. THE PROFILES ARE NOT INTENDED TO BE USED FOR CALCULATION EARTHWORK QUANTITIES.
 10. CONTRACTOR TO CONFIRM ALL STRUCTURE INVERTS AND NOTIFY ENGINEER OF ANY INCONSISTENCIES PRIOR TO CONSTRUCTION.
 11. ALL SANITARY LATERAL CLEANOUTS AND MANHOLES SHALL BE HEAVY DUTY AND TRAFFIC RATED.
 12. ALL SANITARY SEWER LATERALS SHALL BE PVC (SDR 35) UNLESS OTHERWISE SPECIFIED.

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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS


SIGNATURE RICHARD BURROW DATE SIGNED 09-21-2020
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Parsippany, NJ 07054

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

**1251 JUMPING
BROOK ROAD**

**BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47**

MONMOUTH COUNTY NEW JERSEY

Drawing Title

**SANITARY SEWER
PROFILES**

Project No. Drawing No.

100775501

Date

06/25/2020

Drawn By

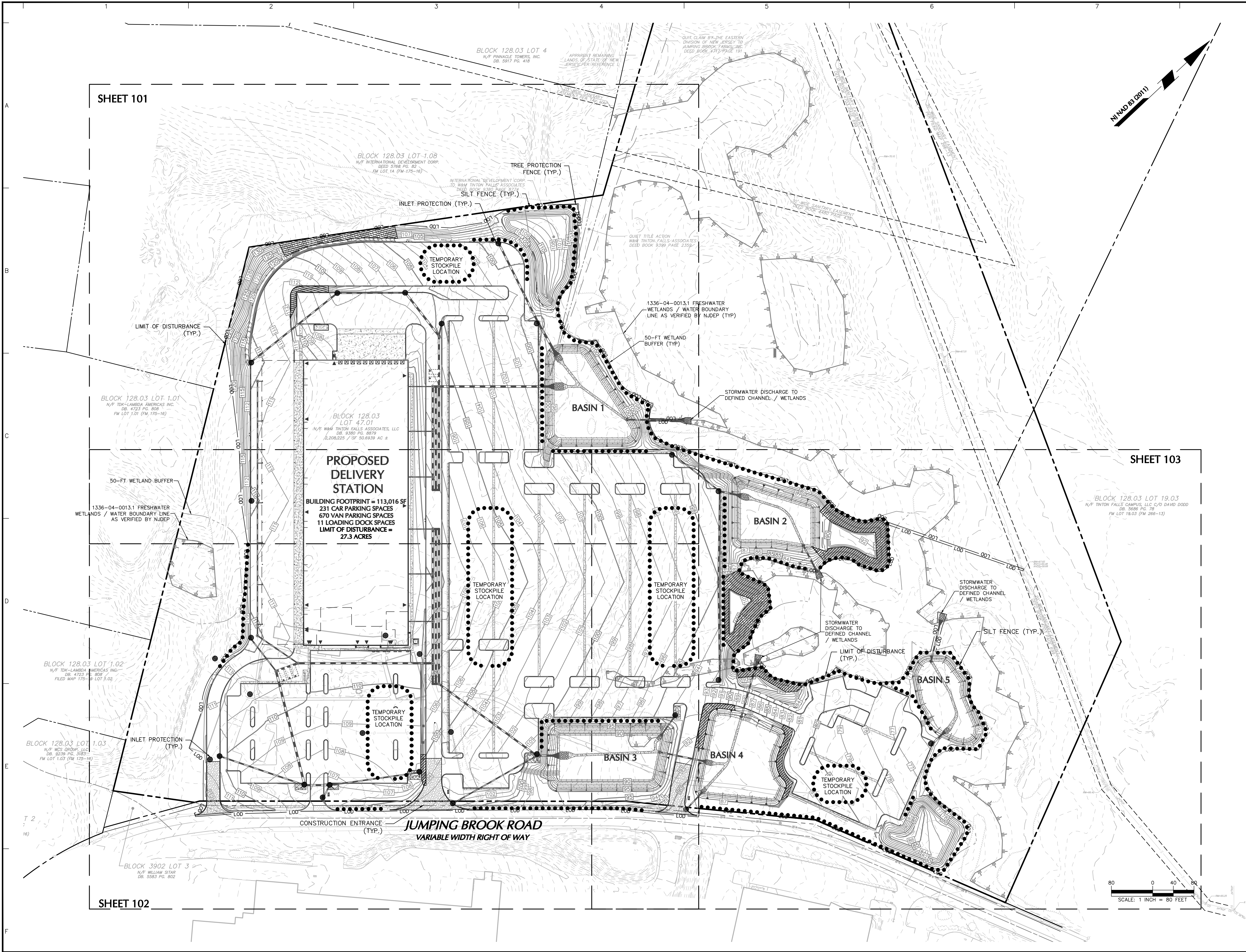
RY

Checked By

RB

CU201

Sheet **25** of 50



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
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 3. REFER TO SHEET CE501 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
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 5. CONTRACTOR TO WASH TRUCK TIRES BEFORE EXITING THE CONSTRUCTION SITE.
 6. ALL LANDSCAPED ISLANDS TO BE PERMANENTLY SEEDDED. EROSION CONTROL MATING SHALL BE PROVIDED WHERE SLOPES ARE GREATER THAN 3H:1V.
 - 7.

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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020
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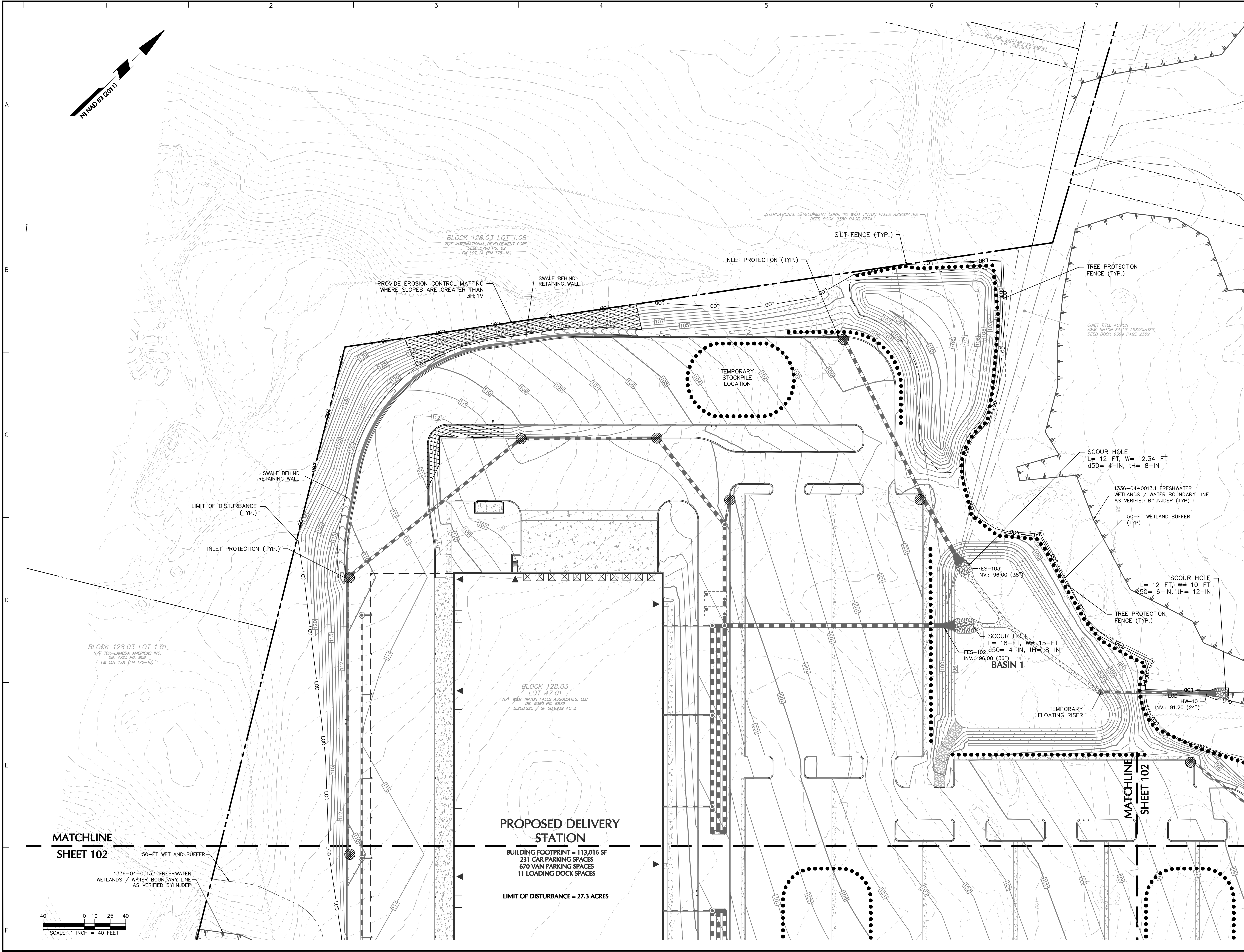
Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

OVERALL SOIL EROSION AND SEDIMENT CONTROL PLAN

| | |
|----------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CE100 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |
| Sheet 26 of 50 | |



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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

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|-----------------------------------|-------------|
| | 09-21-2020 |
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| RICHARD BURROW | |
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| 24GE04459300 | |

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Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

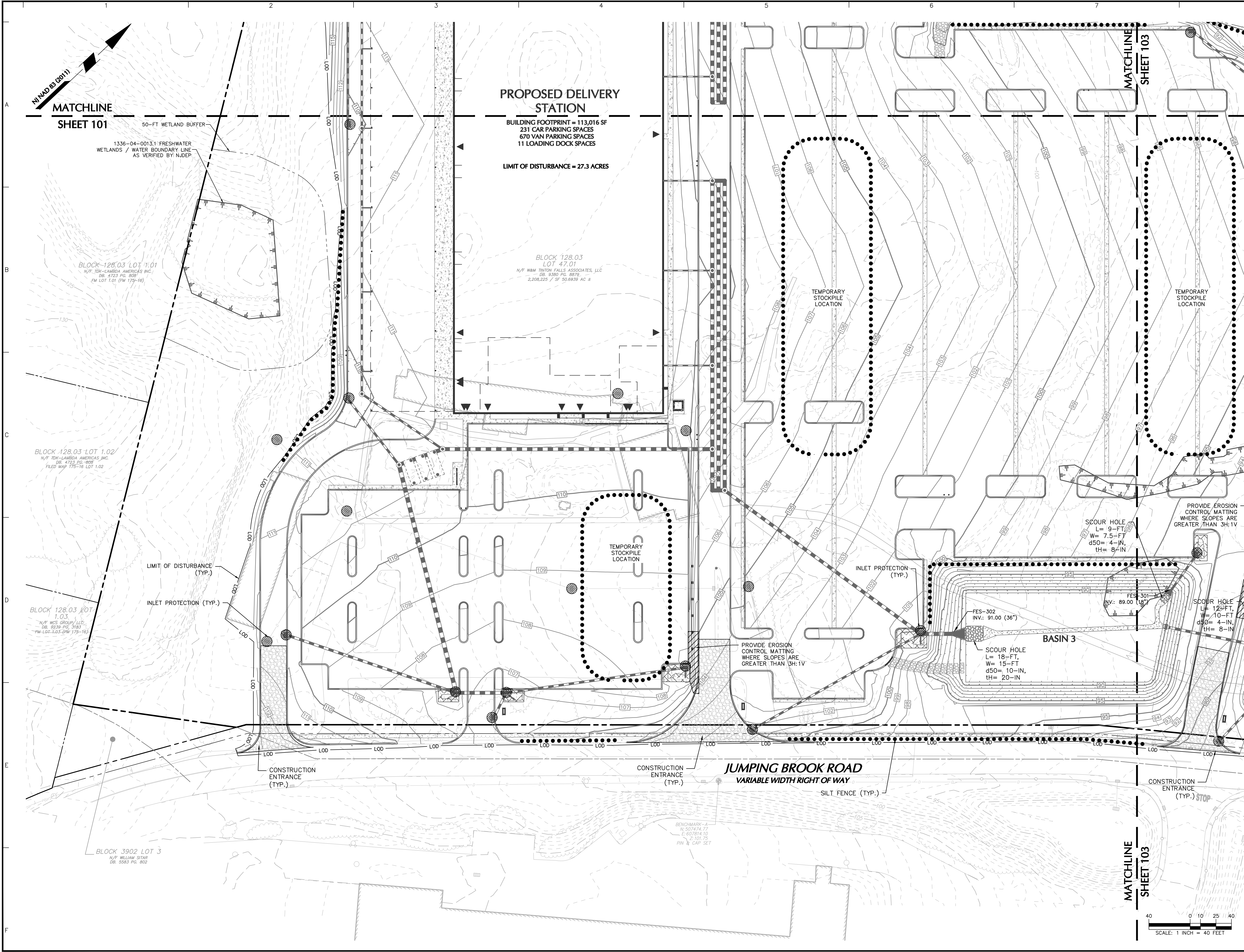
MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL SOIL EROSION & SEDIMENT CONTROL PLAN 1

| | |
|-------------|----------------|
| Project No. | Drawing No. |
| 100775501 | |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |
| | Sheet 27 of 50 |

CE101



- NOTES:
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

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|---|-------------|
| | 09-21-2020 |
| SIGNATURE | DATE SIGNED |
| RICHARD BURROW PROFESSIONAL ENGINEER NJ Lic. No. 24GE0459300 | |
| LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 | |
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Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

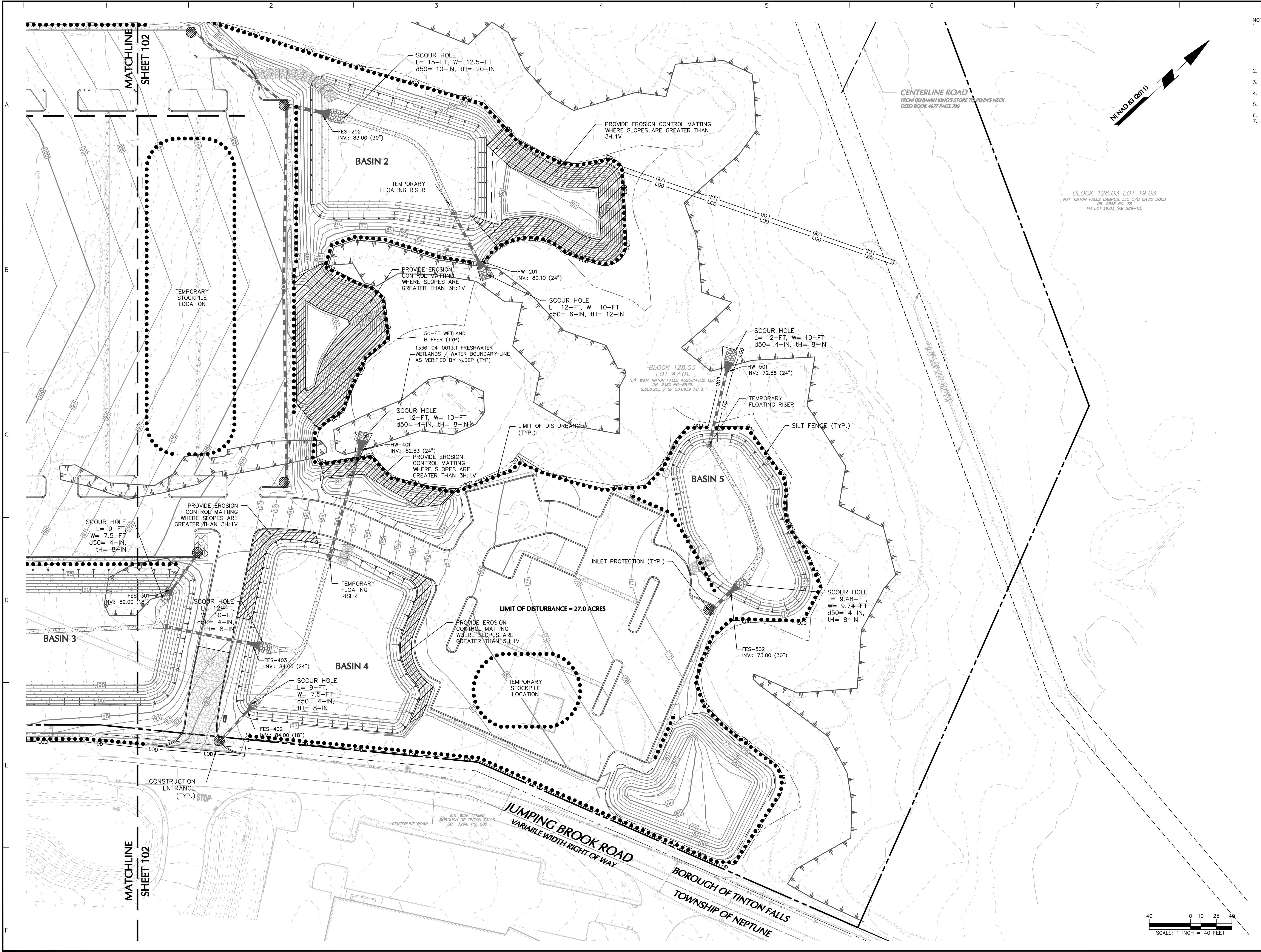
MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL SOIL EROSION & SEDIMENT CONTROL PLAN 2

| | |
|-------------|--------------|
| Project No. | Drawing No. |
| 100775501 | CE102 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| RY | |
| Checked By | |
| RB | |


Sheet 28 of 50



- NOTES:
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

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Project

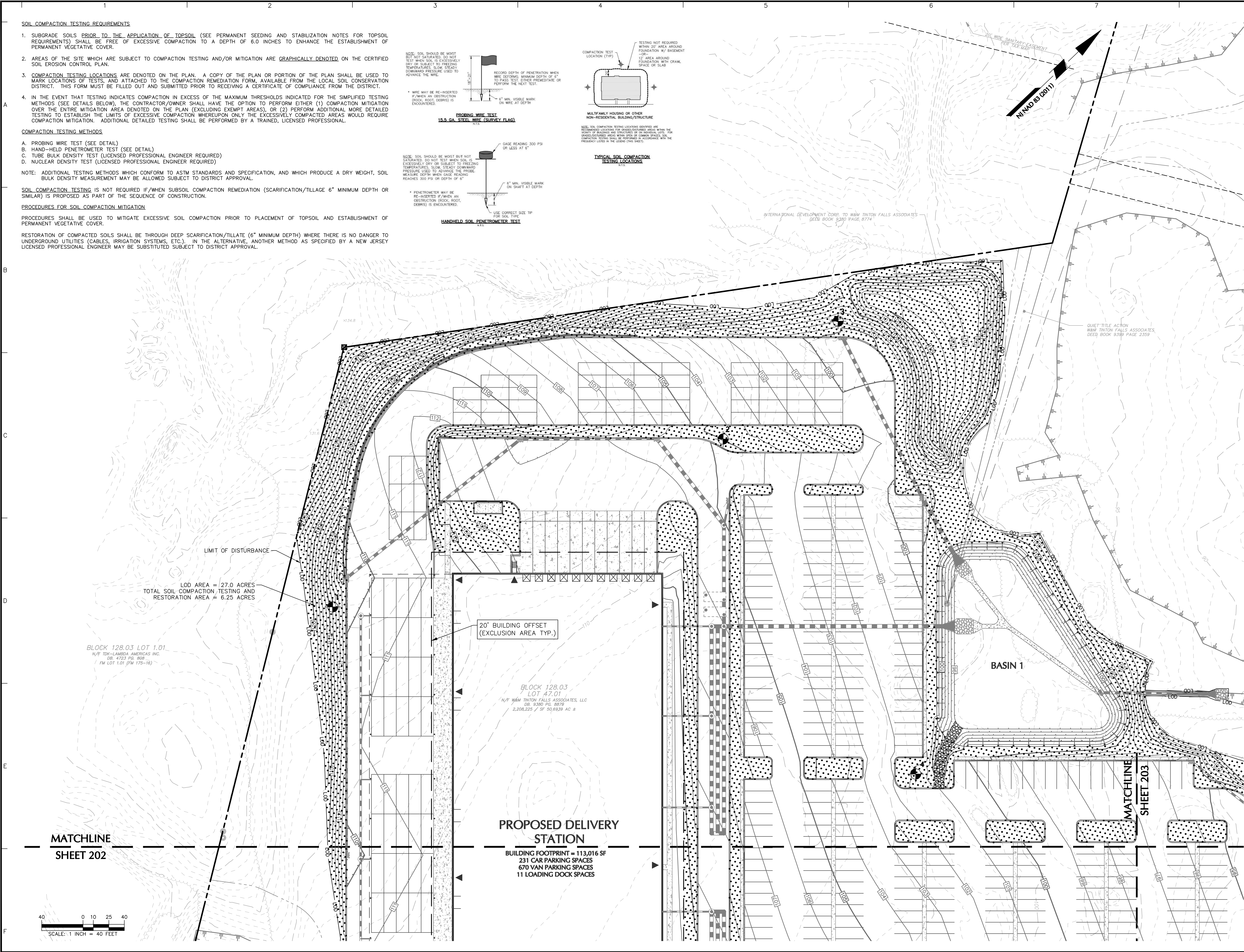
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL SOIL EROSION & SEDIMENT CONTROL PLAN 3

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. CE103 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | |



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LEGEND


SOIL COMPACTION TESTING AND/OR RESTORATION AREAS

RECOMMENDED TESTING LOCATION (APPROXIMATELY 1 PER 0.5 ACRE) 13 REQUIRED FOR THIS PROJECT (BASED ON 6.25 ACRES OF SOIL COMPACTION TESTING AND RESTORATION AREAS)

20' BUILDING OFFSET (EXCLUSION AREA)

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

| | |
|---|-------------|
|  | 09-21-2020 |
| SIGNATURE | DATE SIGNED |
| RICHARD BURROW | |
| PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 | |

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

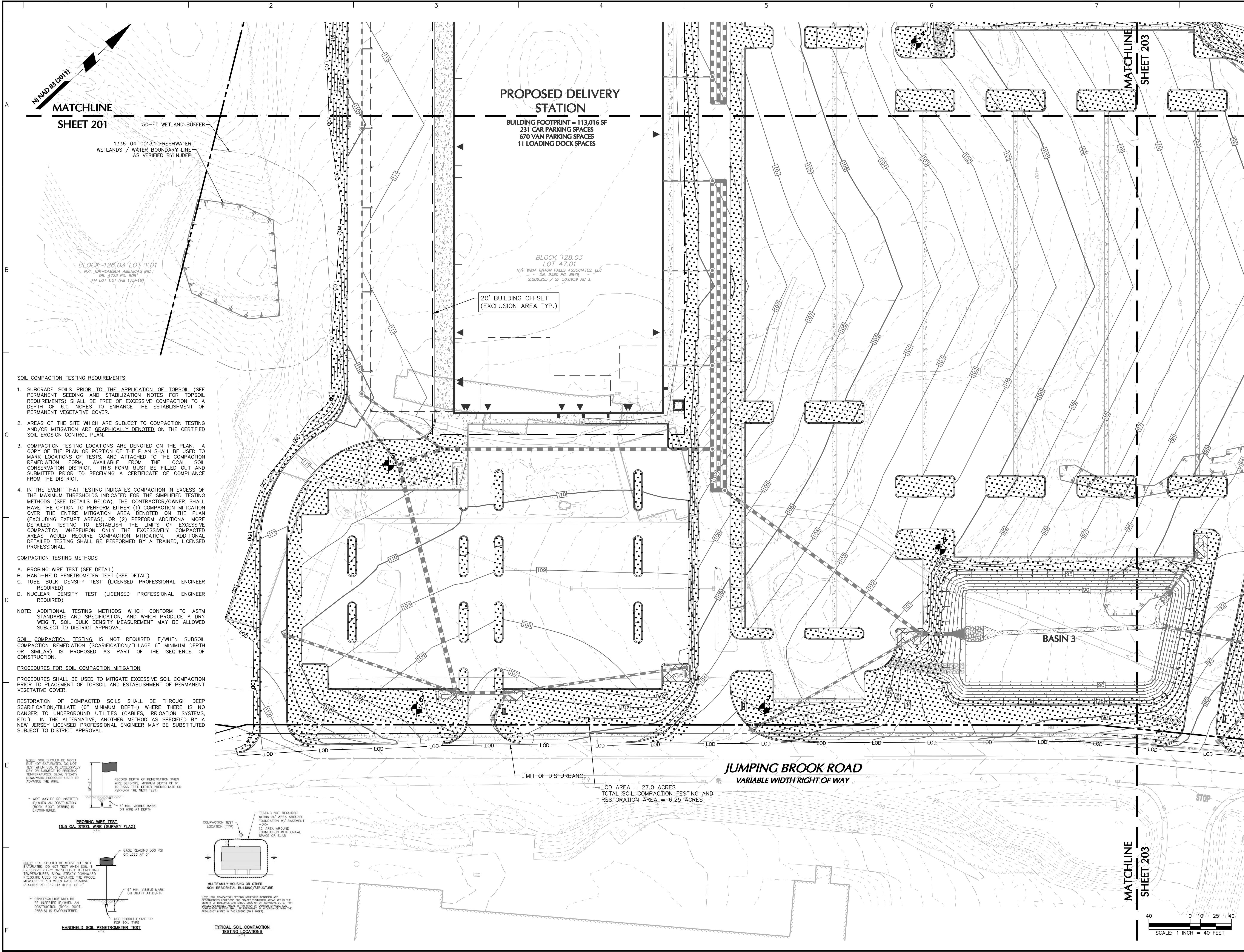
1251 JUMPING BROOK ROAD

BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

SOIL DECOMPACTION AND RESTORATION PLAN 1

| | |
|-----------------------|-------------------|
| Project No. 100775501 | Drawing No. CE201 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | |
| Sheet 31 of 50 | |



NOTES:

- BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
- ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

| LEGEND | |
|--------|---|
| | SOIL COMPACTION TESTING AND/OR RESTORATION AREAS |
| | RECOMMENDED TESTING LOCATION (APPROXIMATELY 1 PER 0.5 ACRE) 13 REQUIRED FOR THIS PROJECT (BASED ON 6.25 ACRES OF SOIL COMPACTION TESTING AND RESTORATION AREAS) |
| | 20' BUILDING OFFSET (EXCLUSION AREA) |

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
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Project

1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

SOIL DECOMPACTION AND RESTORATION PLAN 2

Project No. Drawing No.

100775501

Date

06/25/2020

Drawn By

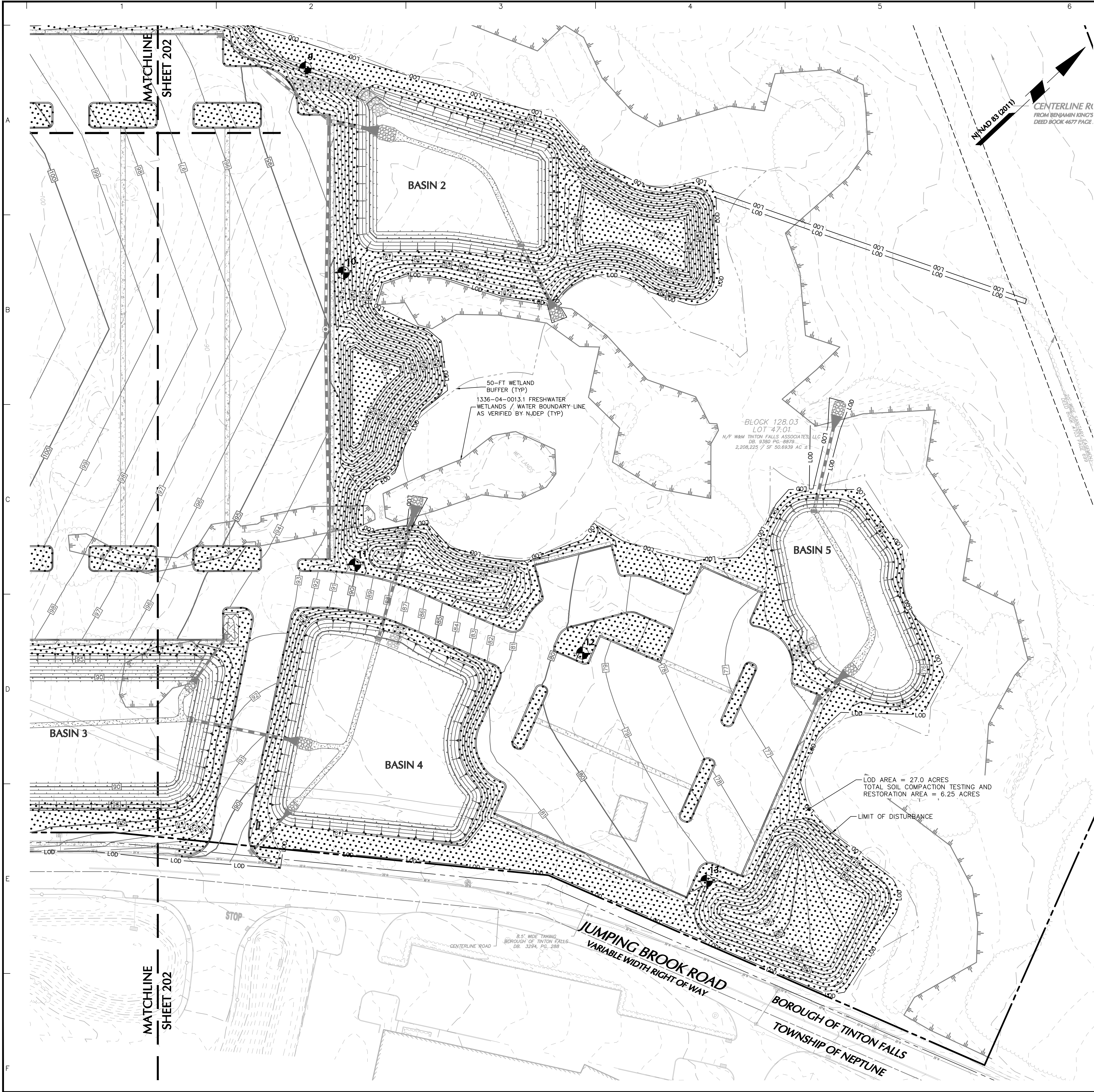
RY

Checked By

RB

CE202

Sheet 32 of 50



SOIL COMPACTION TESTING REQUIREMENTS

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

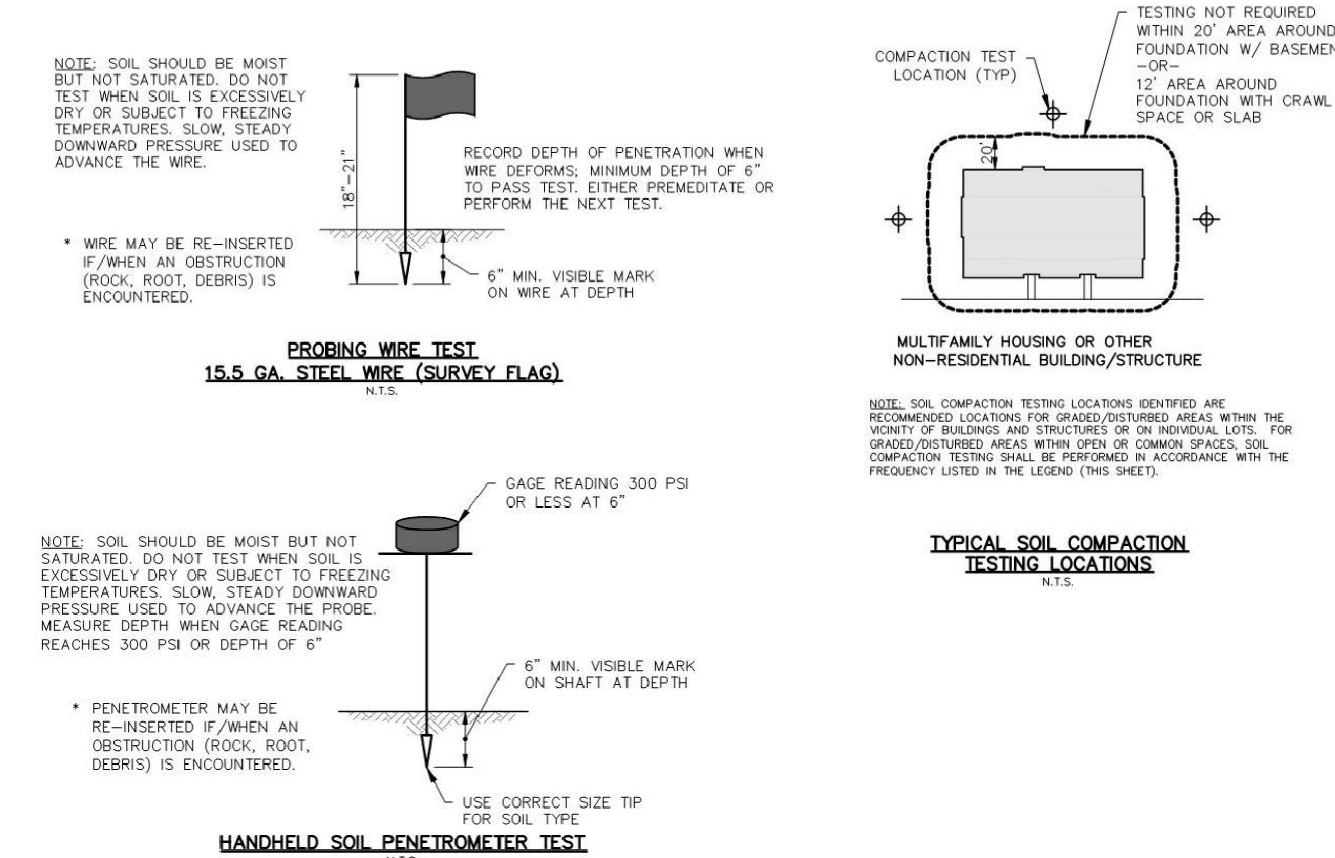
NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATION, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE 6" MINIMUM DEPTH OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



- NOTES:
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 - ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND

SOIL COMPACTION TESTING AND/OR RESTORATION AREAS

RECOMMENDED TESTING LOCATION (APPROXIMATELY 1 PER 0.5 ACRE) 13 REQUIRED FOR THIS PROJECT (BASED ON 6.25 ACRES OF SOIL COMPACTION TESTING AND RESTORATION AREAS)

20' BUILDING OFFSET (EXCLUSION AREA)

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

| | |
|--|-------------|
| | 09-21-2020 |
| SIGNATURE | DATE SIGNED |
| RICHARD BURROW | |
| PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300 | |

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Project

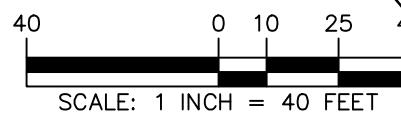
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

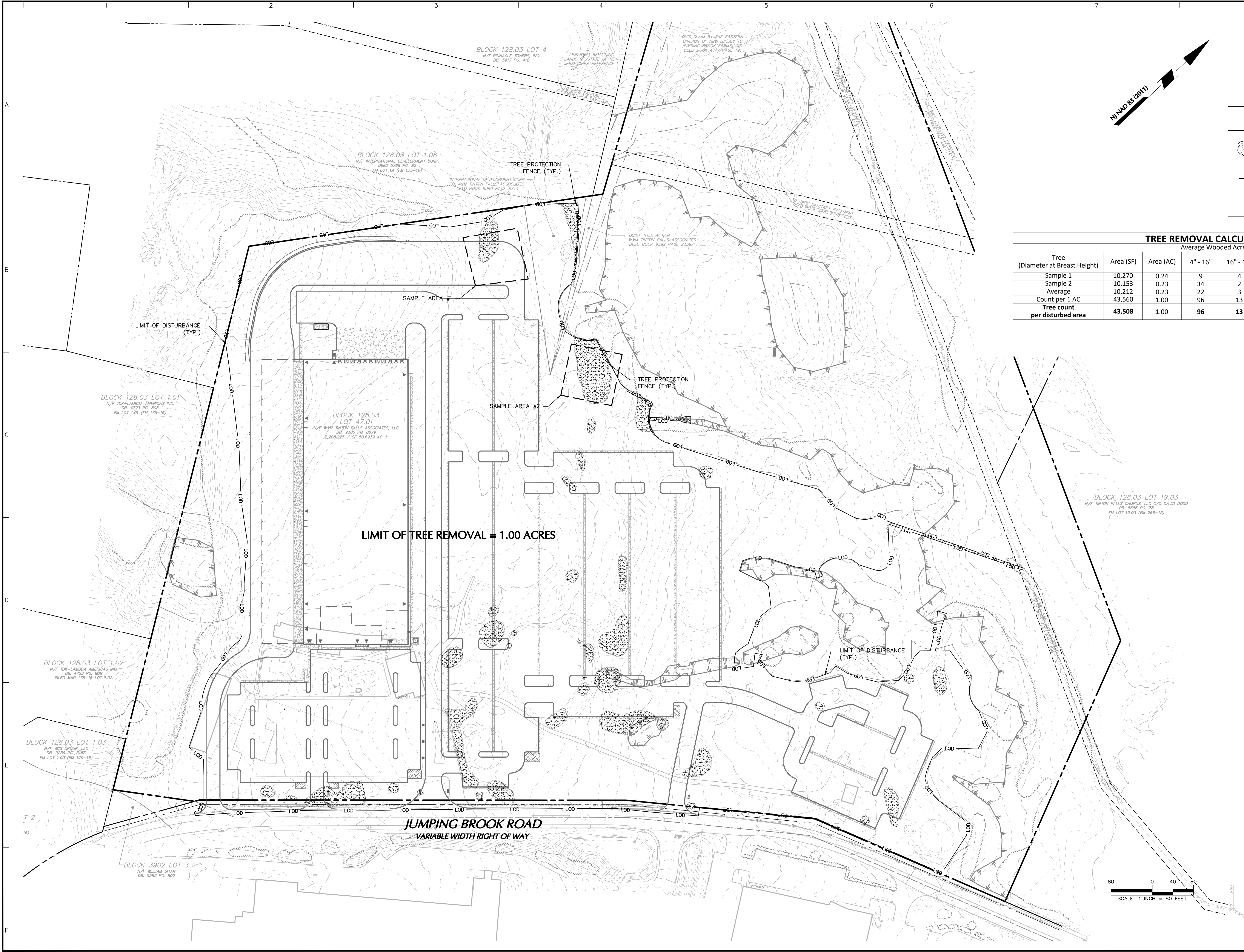
MONMOUTH COUNTY NEW JERSEY

Drawing Title
SOIL DECOMPACTION AND RESTORATION PLAN 3

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. CE203 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | |

Sheet 33 of 50





- NOTES:
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 - ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - REFER TO TREE REMOVAL PERMIT APPLICATION FOR FULL TREE SURVEY INFORMATION.

LEGEND


- TREES AND BRUSH TO BE REMOVED
- TREE PROTECTION FENCE
- LIMIT OF DISTURBANCE

TREE REMOVAL CALCULATIONS

| Average Wooded Acre | | | | | | | | |
|----------------------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-------|
| Tree (Diameter at Breast Height) | Area (SF) | Area (AC) | 4" - 16" | 16" - 18" | 18" - 21" | 21" - 24" | 24" - 27" | TOTAL |
| Sample 1 | 10,270 | 0.24 | 9 | 4 | 0 | 6 | 2 | 21 |
| Sample 2 | 10,153 | 0.23 | 34 | 2 | 1 | 0 | 0 | 37 |
| Average | 10,212 | 0.23 | 22 | 3 | 1 | 3 | 1 | 30 |
| Count per 1 AC | 43,560 | 1.00 | 96 | 13 | 4 | 13 | 4 | 130 |
| Tree count per disturbed area | 43,508 | 1.00 | 96 | 13 | 4 | 13 | 4 | 130 |

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

 09-21-2020
SIGNATURE RICHARD BURROW DATE SIGNED
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

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Project

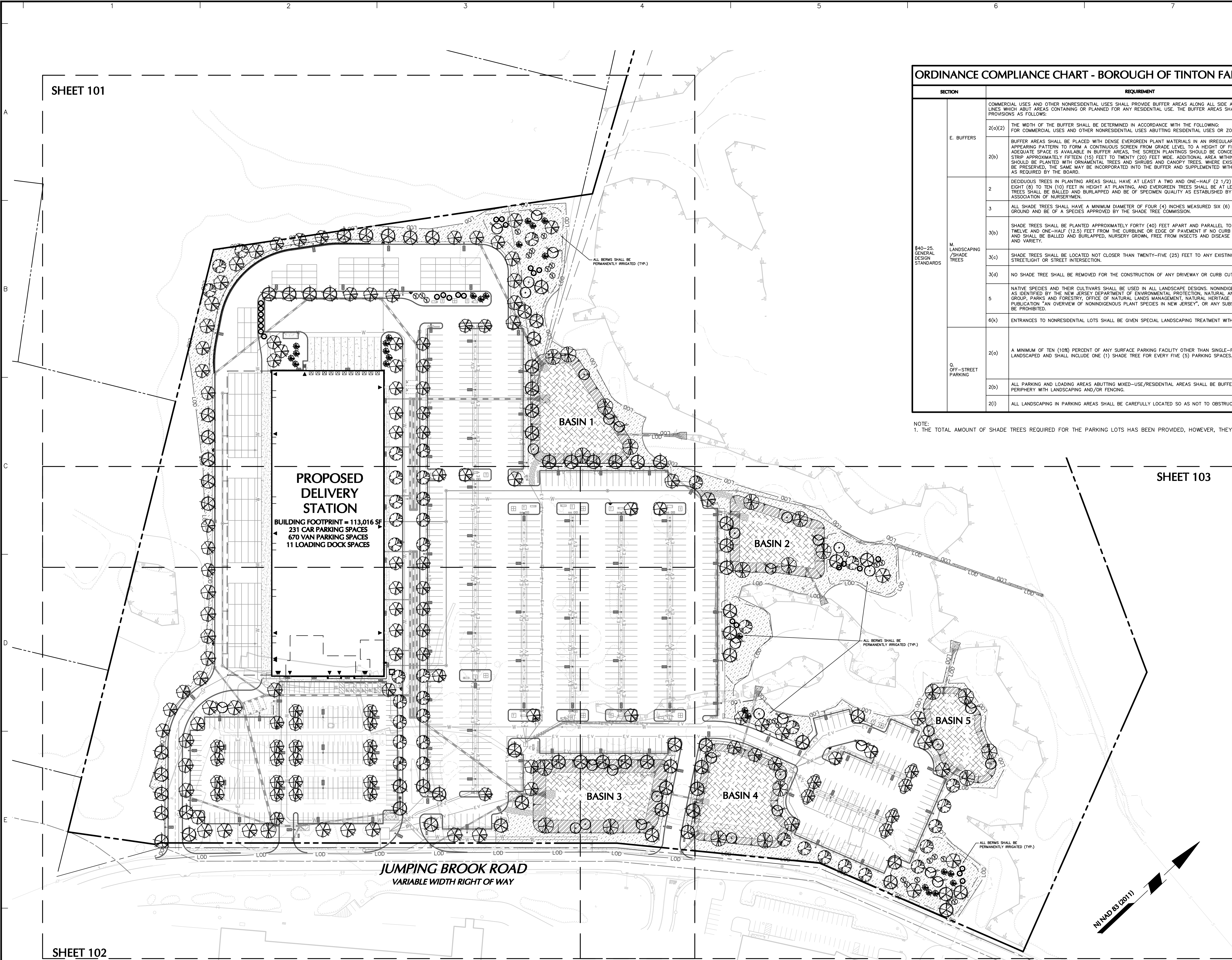
**1251 JUMPING
BROOK ROAD**

**BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47**

MONMOUTH COUNTY NEW JERSEY
Drawing Title

TREE REMOVAL PLAN

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. LD100 |
| Date 06/25/2020 | |
| Drawn By RY | |
| Checked By RB | Sheet 34 of 50 |



SHEET 101

SHEET 103

SHEET 102

- NOTES:
- REFER TO SHEETS LP101 THRU LP103 FOR PARTIAL LANDSCAPE PLANS.
 - REFER TO SHEETS LP501 AND LP502 FOR PLANT SCHEDULES, LANDSCAPE NOTES, AND DETAILS.

| ORDINANCE COMPLIANCE CHART - BOROUGH OF TINTON FALLS, NJ | | | | | | | |
|--|------------------------------|---|--|----------|--|--|---------------------------|
| SECTION | | REQUIREMENT | | PROPOSED | COMPLIANCE | | |
| E. BUFFERS | | COMMERCIAL USES AND OTHER NONRESIDENTIAL USES SHALL PROVIDE BUFFER AREAS ALONG ALL SIDE AND REAR PROPERTY LINES WHICH ABUT AREAS CONTAINING OR PLANNED FOR ANY RESIDENTIAL USE. THE BUFFER AREAS SHALL MEET THE PROVISIONS AS FOLLOWS: | | | | | |
| | 2(a)(2) | THE WIDTH OF THE BUFFER SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING: FOR COMMERCIAL USES AND OTHER NONRESIDENTIAL USES ABUTTING RESIDENTIAL USES OR ZONES: FORTY (40) FEET. | | | | | |
| | | BUFFER AREAS SHALL BE PLACED WITH DENSE EVERGREEN PLANT MATERIALS IN AN IRREGULAR AND NATURAL APPEARING PATTERN TO FORM A CONTINUOUS SCREEN FROM GRADE LEVEL TO A HEIGHT OF FIVE (5) FEET. WHERE ADEQUATE SPACE IS AVAILABLE IN BUFFER AREAS, THE SCREEN PLANTINGS SHOULD BE CONCENTRATED IN A PLANTING STRIP APPROXIMATELY FIFTEEN (15) FEET TO TWENTY (20) FEET WIDE. ADDITIONAL AREA WITHIN THE BUFFER AREA SHOULD BE PLANTED WITH ORNAMENTAL TREES AND SHRUBS AND CANOPY TREES. WHERE EXISTING VEGETATION IS TO BE PRESERVED, THE SAME MAY BE INCORPORATED INTO THE BUFFER AND SUPPLEMENTED WITH ADDITIONAL PLANTINGS AS REQUIRED BY THE BOARD. | | | PROPOSED 40 FT BUFFER ALONG ALL ABUTTING RESIDENTIAL USES OR ZONES CONSISTS OF DENSE EXISTING VEGETATION. LANDSCAPE BERMS AND PLANTINGS ALONG THE LIMIT OF DISTURBANCE ARE PROVIDED. | COMPLIES | |
| | 2(b) | | | | | | |
| 840-25. GENERAL LANDSCAPING STANDARDS | M. LANDSCAPING / SHADE TREES | 2 | DECIDUOUS TREES IN PLANTING AREAS SHALL HAVE AT LEAST A TWO AND ONE-HALF (2 1/2) INCH CALIPER AND BE EIGHT (8) TO TEN (10) FEET IN HEIGHT AT PLANTING, AND EVERGREEN TREES SHALL BE AT LEAST 6 FEET TALL. ALL TREES SHALL BE BALLED AND BURLAPPED AND BE OF SPECIMEN QUALITY AS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. | | | ALL DECIDUOUS TREES SPECIFIED HAVE A MINIMUM 2-2 1/2" CALIPER AND ARE TO BE 8-10' HEIGHT. EVERGREEN TREES SHALL BE 6-7' TALL. ALL TREES ARE TO BE BALLED AND BURLAPPED. | COMPLIES |
| | | 3 | ALL SHADE TREES SHALL HAVE A MINIMUM DIAMETER OF FOUR (4) INCHES MEASURED SIX (6) INCHES ABOVE THE GROUND AND BE OF A SPECIES APPROVED BY THE SHADE TREE COMMISSION. | | | ALL PROPOSED SHADE TREES SHALL HAVE A MINIMUM OF 4-4 1/2" CALIPER. | COMPLIES |
| | | 3(b) | SHADE TREES SHALL BE PLANTED APPROXIMATELY FORTY (40) FEET APART AND PARALLEL TO AND AT A DISTANCE OF TWELVE AND ONE-HALF (12.5) FEET FROM THE CURBLINE OR EDGE OF PAVEMENT IF NO CURB IS TO BE INSTALLED, AND SHALL BE BALLED AND BURLAPPED, NURSERY GROWN, FREE FROM INSECTS AND DISEASE AND TRUE TO SPECIES AND VARIETY. | | | SHADE TREES ARE PLANTED AT APPROXIMATELY 40 FT O.C. AND PARALLEL TO AND 12.5 FT AWAY FROM THE CURBLINE OR EDGE OF PAVEMENT WHERE APPLICABLE. | COMPLIES |
| | | 3(c) | SHADE TREES SHALL BE LOCATED NOT CLOSER THAN TWENTY-FIVE (25) FEET TO ANY EXISTING OR PROPOSED STREETLIGHT OR STREET INTERSECTION. | | | ALL SHADE TREES ARE TO BE BALLED AND BURLAPPED, NURSERY GROWN, FREE FROM INSECTS AND DISEASE AND TRUE TO SPECIES AND VARIETY. | COMPLIES |
| | | 3(d) | NO SHADE TREE SHALL BE REMOVED FOR THE CONSTRUCTION OF ANY DRIVEWAY OR CURB CUT WITHOUT REPLACEMENT. | | | NO SHADE TREES ARE LOCATED CLOSER THAN TWENTY-FIVE (25) FEET TO ANY EXISTING OR PROPOSED STREETLIGHT OR STREET INTERSECTION. | COMPLIES |
| | | 5 | NATIVE SPECIES AND THEIR CULTIVARS SHALL BE USED IN ALL LANDSCAPE DESIGNS. NONINDIGENOUS PLANT SPECIES, AS IDENTIFIED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, NATURAL AND HISTORIC RESOURCES GROUP, PARKS AND FORESTRY, OFFICE OF NATURAL LANDS MANAGEMENT, NATURAL HERITAGE PROGRAM 2004 PUBLICATION "AN OVERVIEW OF NONINDIGENOUS PLANT SPECIES IN NEW JERSEY", OR ANY SUBSEQUENT REVISION, SHALL BE PROHIBITED. | | | 130 SHADE TREES ARE TO BE REMOVED FOR CONSTRUCTION AND 130 REPLACEMENT SHADE TREES ARE PROVIDED ON-SITE. | COMPLIES |
| O. OFF-STREET PARKING | | 6(a) | ENTRANCES TO NONRESIDENTIAL LOTS SHALL BE GIVEN SPECIAL LANDSCAPING TREATMENT WITH AN ENTRANCE FEATURE. | | | ALL PROPOSED PLANTINGS ARE NATIVE SPECIES. NO NONINDIGENOUS PLANT SPECIES HAVE BEEN PROPOSED. | COMPLIES |
| | | 2(a) | A MINIMUM OF TEN (10%) PERCENT OF ANY SURFACE PARKING FACILITY OTHER THAN SINGLE-FAMILY HOMES SHALL BE LANDSCAPED AND SHALL INCLUDE ONE (1) SHADE TREE FOR EVERY FIVE (5) PARKING SPACES. | | | LANDSCAPE PLANTINGS ARE PROVIDED AT ALL SITE ENTRANCES. | COMPLIES |
| | | 2(b) | ALL PARKING AND LOADING AREAS ABUTTING MIXED-USE/RESIDENTIAL AREAS SHALL BE BUFFERED ABOUT THEIR PERIPHERY WITH LANDSCAPING AND/OR FENCING. | | | REQUIRED: MIN. 10% X 437,290 SF PARKING LOT = 43,729 SF MINIMUM REQUIRED LANDSCAPING 901 TOTAL PARKING SPACES / 5 = 180.2 = 181 TOTAL SHADE TREES PROPOSED: 43,728 SF LANDSCAPING IN PARKING LOTS 181 TOTAL SHADE TREES | WAIVER (SEE NOTE 1 BELOW) |
| | | 2(i) | ALL LANDSCAPING IN PARKING AREAS SHALL BE CAREFULLY LOCATED SO AS NOT TO OBSTRUCT SIGHT TRIANGLE. | | | ALL AREAS ABUTTING MIXED-USE/RESIDENTIAL AREAS ARE BUFFERED WITH LANDSCAPE BERMS, PLANTINGS, AND DENSE EXISTING VEGETATION. ALL LANDSCAPING IN PARKING AREAS IS LOCATED SO AS NOT TO OBSTRUCT ANY SIGHT TRIANGLES. | COMPLIES |

NOTE:
1. THE TOTAL AMOUNT OF SHADE TREES REQUIRED FOR THE PARKING LOTS HAS BEEN PROVIDED, HOWEVER, THEY ARE LOCATED THROUGHOUT THE SITE.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

Michael Szura 09-21-2020
SIGNATURE MICHAEL SZURA DATE SIGNED
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. AS00815

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Project

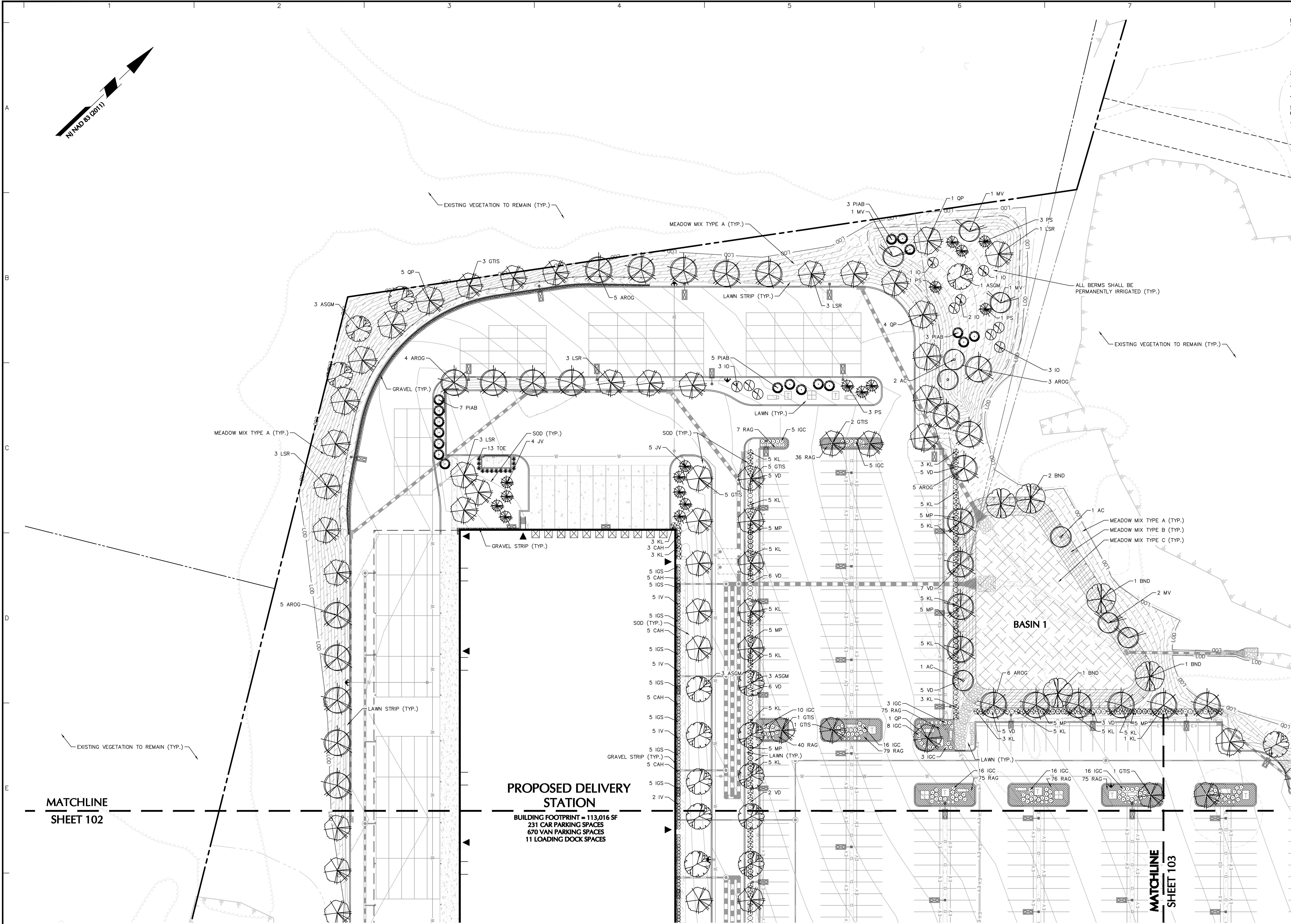
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY
Drawing Title

OVERALL LANDSCAPE PLAN

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | LP100 |
| Date | |
| 06/25/2020 | |
| Drawn By | |
| ML | |
| Checked By | |
| JC | |

Sheet 35 of 50





- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL CURBS TO BE 6 INCHES UNLESS OTHERWISE SPECIFIED.
 4. LANDSCAPING SHALL BE PROVIDED AROUND ALL PARKING AREAS IN ACCORDANCE WITH DRAWING LP100-LP103.
 5. REFER TO SHEET LP100 FOR OVERALL LANDSCAPE PLAN.
 6. REFER TO SHEET LP501 & LP502 FOR PLANT SCHEDULES, LANDSCAPING NOTES, AND DETAILS.
 7. EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

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SIGNATURE MICHAEL SZURA DATE SIGNED
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Project

**1251 JUMPING
BROOK ROAD**

**BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47**

MONMOUTH COUNTY **NEW JERSEY**

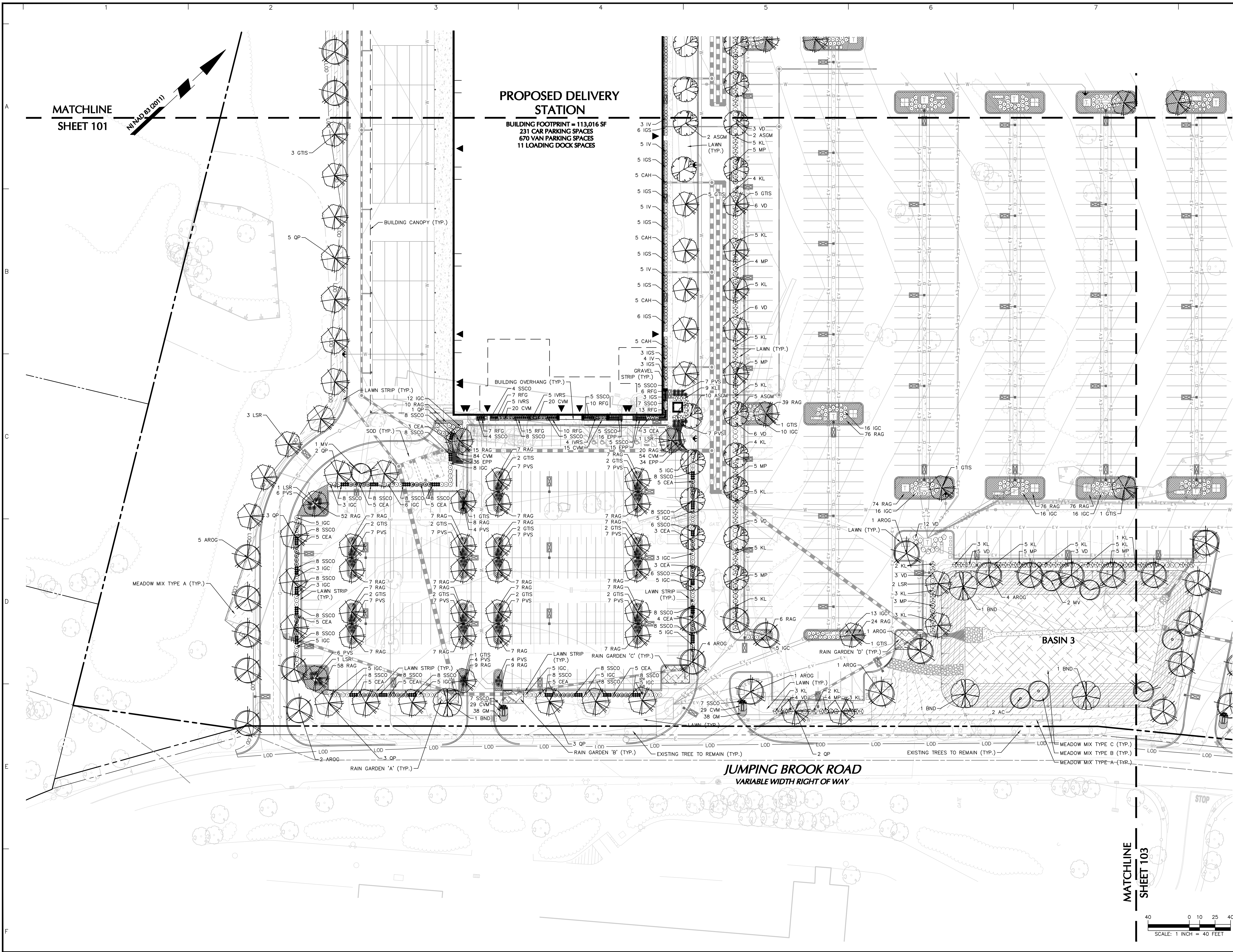
Drawing Title

**PARTIAL
LANDSCAPE PLAN 1**

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | LP101 |
| Date | 06/25/2020 |
| Drawn By | ML |
| Checked By | DB/C |

Sheet 36 of 50

40 0 10 25 40
SCALE: 1 INCH = 40 FEET



| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

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Project

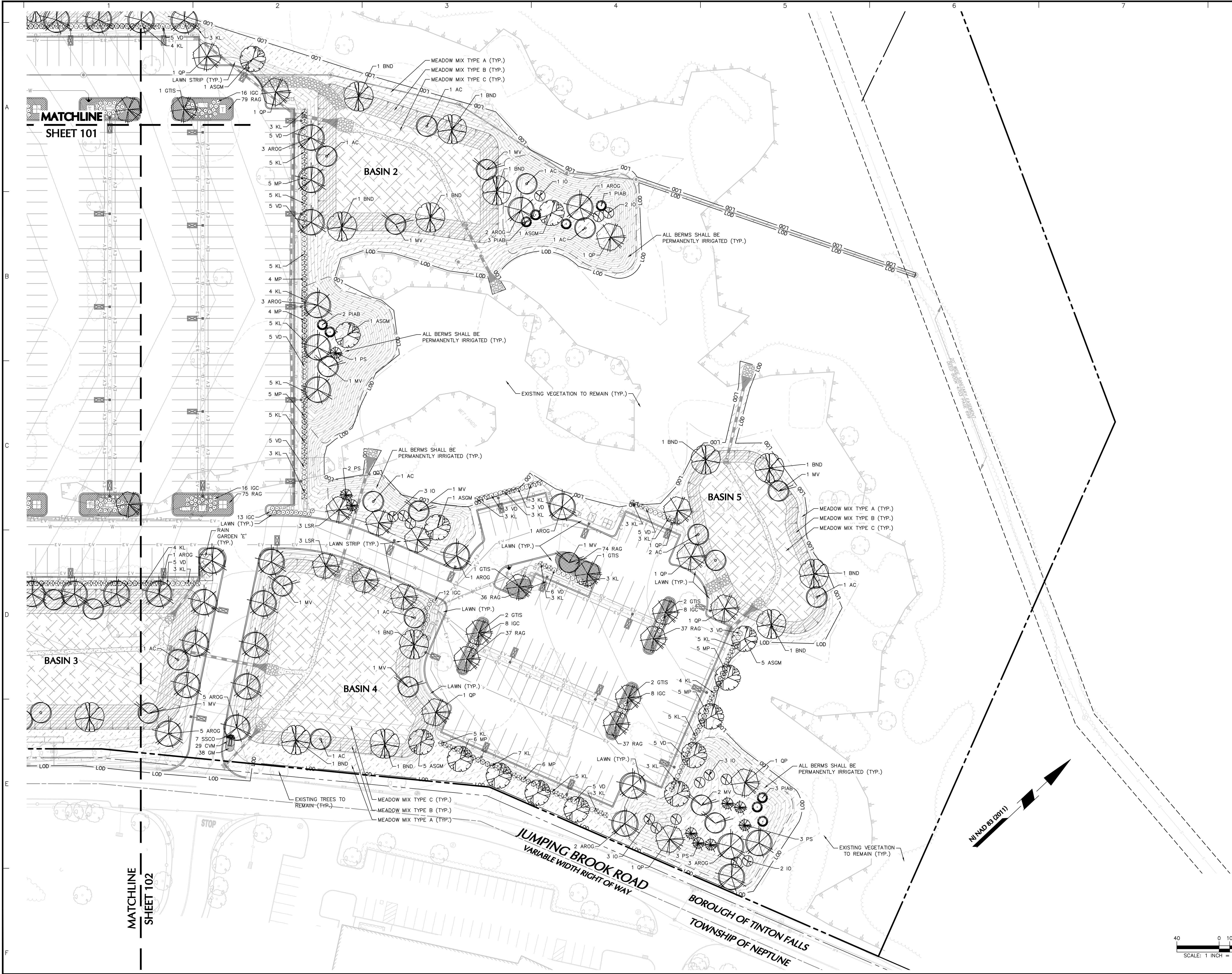
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY **NEW JERSEY**

Drawing Title

PARTIAL
LANDSCAPE PLAN 2

| | |
|----------------|-------------|
| Project No. | Drawing No. |
| 100775501 | LP102 |
| Date | 06/25/2020 |
| Drawn By | ML |
| Checked By | DB/C |
| Sheet 37 of 50 | |



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
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| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

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Project

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BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

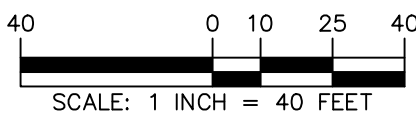
MONMOUTH COUNTY NEW JERSEY

Drawing Title

PARTIAL LANDSCAPE PLAN 3

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | LP103 |
| Date | 06/25/2020 |
| Drawn By | ML |
| Checked By | DB/C |

Sheet 38 of 50





NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

| | |
|-------|-----------------------|
| DB/JC | Sheet 40 of 50 |
|-------|-----------------------|

SHEET 101

ORDINANCE COMPLIANCE CHART - BOROUGH OF TINTON FALLS, NJ

| ORDINANCE SECTION | ORDINANCE REQUIREMENT | PROPOSED | COMPLIANCE |
|-------------------|--|--|---------------------------|
| 1(c)(1) | ALL OUTDOOR LIGHTING DURING NON-OPERATING HOURS OF THE BUSINESS ON SITE, NOT NECESSARY FOR SAFETY AND SECURITY PURPOSES, SHALL BE REDUCED, ACTIVATED BY MOTION-SENSOR DEVICES OR TURNED OFF. | WEEKDAYS: FULL LIGHTING IS PROVIDED UNTIL 10:00 PM AND LIGHTING IS DIMMED TO 30% FROM 10:00 PM UNTIL DAWN FOR SECURITY PURPOSES IN PARKING LOTS. WEEKENDS: LIGHTING IS DIMMED TO 30% FROM DUSK UNTIL DAWN | COMPLIES |
| 1(e) | THE MAXIMUM HEIGHT OF FREESTANDING LIGHTS SHALL NOT EXCEED THE HEIGHT OF THE PRINCIPAL BUILDING, OR 18 FEET, WHICHEVER IS LESS. | FREESTANDING LIGHTS ARE PROVIDED AT 18 FT AND 25 FT MOUNTING HEIGHTS. | WAIVER (SEE NOTE 1 BELOW) |
| 1(h) | THE MAXIMUM ILLUMINATION AT PROPERTY LINES SHALL BE 0.1 FOOTCANDLE. | THE MAXIMUM ILLUMINATION AT THE PROPERTY LINE IS 3.2 FOOTCANDLES. | WAIVER (SEE NOTE 2 BELOW) |
| 1(j) | FOR ALL NONRESIDENTIAL USES, EXCEPT SHOPPING CENTERS NOTED BELOW, THE LIGHT INTENSITY PROVIDED AT THE GROUND LEVEL SHALL BE AS FOLLOWS: MINIMUM = 0.5 FC MAXIMUM ON ANY LOCATION = 4.0 FC MAXIMUM AVERAGE ENTIRE AREA = 2.0 FC UNIFORMITY RATIO = NOT GREATER THAN = 4:1 | PROVIDED: MINIMUM = 0.8 FC MAXIMUM ON ANY LOCATION = 7.1 FC MAXIMUM AVERAGE ENTIRE AREA = 3.1 FC UNIFORMITY RATIO = 3.8:1 | WAIVER (SEE NOTE 3 BELOW) |

- NOTES:
- FREESTANDING LIGHTS ARE PROVIDED AT 18 FEET MOUNTING HEIGHTS, EXCEPT AT THE REAR PROPERTY LINE WHERE LIGHTS ARE PROVIDED AT 25 FEET MOUNTING HEIGHT IN ORDER TO MEET TENANT LIGHTING REQUIREMENTS IN THE OPEN TRUCK YARD AND VAN STAGING AREAS.
 - THE MAXIMUM ILLUMINATION AT THE PROPERTY LINE IS 3.2 FOOTCANDLES, HOWEVER THIS ONLY OCCURS WITHIN THE VEHICULAR ENTRANCE DRIVES, AND WILL NOT ADVERSELY IMPACT NEIGHBORING PROPERTIES.
 - DUE TO THE LOWERED MOUNTING HEIGHTS AND TYPES OF FIXTURES USED TO MEET LIGHTING REQUIREMENTS, THE PROPOSED MAXIMUM ON ANY LOCATION OF 7.1 FC AND MAXIMUM AVERAGE ENTIRE AREA OF 3.1 FC, EXCEEDS THE REQUIRED FOOTCANDLES.

STATISTICS

| DESCRIPTION | AVG. | MAX. | MIN. | MAX/MIN. | AVG/MIN. |
|---------------------|--------|--------|--------|----------|----------|
| OVERALL AREA | 3.1 FC | 7.1 FC | 0.8 FC | 8.9:1 | 3.8:1 |
| VEHICULAR ENTRANCES | 2.7 FC | 4.6 FC | 1.0 FC | 4.6:1 | 2.7:1 |
| DRIVEWAYS | 2.4 FC | 6.4 FC | 0.8 FC | 8.0:1 | 3.0:1 |
| PARKING LOT AREAS | 3.2 FC | 7.1 FC | 1.5 FC | 4.7:1 | 2.1:1 |
| PEDESTRIAN WALKWAYS | 3.9 FC | 5.5 FC | 3.0 FC | 1.8:1 | 1.3:1 |
| LOADING DOCK | 3.5 FC | 6.4 FC | 1.6 FC | 4.0:1 | 2.2:1 |
| OPEN TRUCK YARD | 2.4 FC | 4.4 FC | 0.9 FC | 4.9:1 | 2.7:1 |
| VAN STAGING AREAS | 2.6 FC | 5.0 FC | 1.5 FC | 3.3:1 | 1.7:1 |
| BUILDING EXTERIOR | 4.3 FC | 6.8 FC | 1.2 FC | 5.7:1 | 3.8:1 |
| PROPERTY LINE | 0.1 FC | 3.2 FC | 0.0 FC | N/A | N/A |

- NOTES:
- PROPOSED CANOPY LIGHTING IS MODELED AND INCLUDED IN THE ABOVE STATISTICS, BUT NOT SHOWN ON THE PLAN. REFER TO ARCHITECTURAL PLANS FOR CANOPY LIGHTING.
 - LIGHT PHOTOMETRY AND CALCULATIONS FOR EXISTING AND ADJACENT LIGHTING TO REMAIN ARE NOT INCLUDED IN THE ABOVE STATISTICS.

SITE LIGHTING SCHEDULE

| SYMBOL | KEY | QTY. | FIXTURE MANUFACTURER | FIXTURE MODEL | FIXTURE DESCRIPTION | FIXTURE MOUNTING HEIGHT | LAMP | OPTICS | LUMENS | COLOR TEMPERATURE | ULF | IES FILE | FIXTURE CATALOGUE NO. | POLE MANUFACTURER | POLE DESCRIPTION | POLE LENGTH | POLE CATALOGUE NO. |
|--------|-----|------|-------------------------|----------------------|---|-------------------------|------|---|--------|-------------------|------|--------------------------------|----------------------------------|---------------------------|---|-------------|--|
| | A | 1 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 90° SPILL LIGHT ELIMINATOR RIGHT | 5,603 | 4000K | 0.90 | GLEON-AF-01-LED-E1-SLR-IES | GLEON-AF-01-LED-VOLTS-SLR-BK | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | B | 14 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 3 WITH SPILL CONTROL AND HOUSE SIDE SHIELD | 10,643 | 4000K | 0.90 | GLEON-AF-02-LED-E1-SL3-HSS-IES | GLEON-AF-02-LED-VOLTS-SL3-BK-HSS | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | *B | 2 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 25'-0" | LED | TYPE 3 WITH SPILL CONTROL AND HOUSE SIDE SHIELD | 10,643 | 4000K | 0.90 | GLEON-AF-02-LED-E1-SL3-HSS-IES | GLEON-AF-02-LED-VOLTS-SL3-BK-HSS | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 22'-0" | RPSQ-25-4-11-AB-D1-BK-V0 (FACTORY CUT) |
| | C | 7 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 4 WITH SPILL CONTROL AND HOUSE SIDE SHIELD | 10,111 | 4000K | 0.90 | GLEON-AF-02-LED-E1-SL4-HSS-IES | GLEON-AF-02-LED-VOLTS-SL4-BK-HSS | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | D | 18 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 4 WITH SPILL CONTROL AND HOUSE SIDE SHIELD | 15,088 | 4000K | 0.90 | GLEON-AF-03-LED-E1-SL4-HSS-IES | GLEON-AF-03-LED-VOLTS-SL4-BK-HSS | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | E | 56 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 5 SQUARE MEDIUM | 25,807 | 4000K | 0.90 | GLEON-AF-04-LED-E1-SMQ-IES | GLEON-AF-04-LED-VOLTS-SMQ-BK | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | F | 5 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 18'-0" | LED | TYPE 5 SQUARE MEDIUM | 31,975 | 4000K | 0.90 | GLEON-AF-05-LED-E1-SMQ-IES | GLEON-AF-05-LED-VOLTS-SMQ-BK | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 15'-0" | RPSQ-15-4-11-AB-D1-BK |
| | G | 4 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 25'-0" | LED | TYPE 5 SQUARE MEDIUM | 38,264 | 4000K | 0.90 | GLEON-AF-06-LED-E1-SMQ-IES | GLEON-AF-06-LED-VOLTS-SMQ-BK | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 22'-0" | RPSQ-25-4-11-AB-D1-BK-V0 (FACTORY CUT) |
| | H | 1 | EATON - COOPER LIGHTING | GLEON GALLEON LED | POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK | 25'-0" | LED | TYPE 4 WITH SPILL CONTROL AND HOUSE SIDE SHIELD | 39,609 | 4000K | 0.90 | GLEON-AF-08-LED-E1-SL4-HSS-IES | GLEON-AF-08-LED-VOLTS-SL4-BK-HSS | UNITED LIGHTING STANDARDS | SQUARE STRAIGHT STEEL POLE; COLOR - BLACK | 22'-0" | RPSQ-25-4-11-AB-D1-BK-V0 (FACTORY CUT) |
| | I | 1 | EATON - COOPER LIGHTING | GLEON GALLEON LED | WALL MOUNTED AREA LIGHT FIXTURE; COLOR - BLACK | 25'-0" ABOVE FFE | LED | TYPE 4 FORWARD THROW | 49,097 | 4000K | 0.90 | GLEON-AF-08-LED-E1-T4FT-IES | GLEON-AF-08-LED-VOLTS-T4FT-BK-WM | N/A | N/A | N/A | N/A |
| | J | 1 | EATON - COOPER LIGHTING | GWC GALLEON WALL LED | WALL FIXTURE; COLOR - BLACK | 18'-0" ABOVE FFE | LED | TYPE 2 | 6,382 | 4000K | 0.90 | GWC-AF-01-LED-E1-T2-IES | GWC-AF-01-LED-VOLTS-T2-BK | N/A | N/A | N/A | N/A |
| | K | 9 | EATON - COOPER LIGHTING | GWC GALLEON WALL LED | WALL FIXTURE; COLOR - BLACK | 18'-0" ABOVE FFE | LED | TYPE 2 | 12,471 | 4000K | 0.90 | GWC-AF-02-LED-E1-T2-IES | GWC-AF-02-LED-VOLTS-T2-BK | N/A | N/A | N/A | N/A |
| | *K | 1 | EATON - COOPER LIGHTING | GWC GALLEON WALL LED | WALL FIXTURE; COLOR - BLACK | 25'-0" ABOVE FFE | LED | TYPE 2 | 12,471 | 4000K | 0.90 | GWC-AF-02-LED-E1-T2-IES | GWC-AF-02-LED-VOLTS-T2-BK | N/A | N/A | N/A | N/A |


- NOTES:
- REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING VOLTAGES AND ELECTRICAL LAYOUT.
 - CONTRACTOR TO CONFIRM CONTROLS SYSTEM REQUIRED BY THE OWNER AND PER CODE. BID PRICING SHALL INCLUDE CONTROLS SYSTEM.
 - ALL POLES AT 26 FT HEIGHT SHALL RECEIVE FACTORY INSTALLED VIBRATION DAMPERS.
 - (7) TOTAL POLE MOUNTED LIGHT FIXTURES TYPES *B, G, AND H ARE TO BE MOUNTED AT 25'-0". ALL OTHER POLE MOUNTED FIXTURES ARE TO BE MOUNTED AT 18'-0".
 - REFER TO ORDINANCE COMPLIANCE CHART FOR PROPOSED SCHEDULE OF SITE LIGHTING TIMING AND SECURITY LIGHTING.

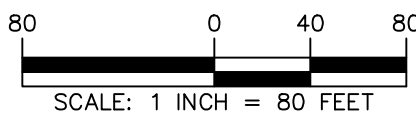
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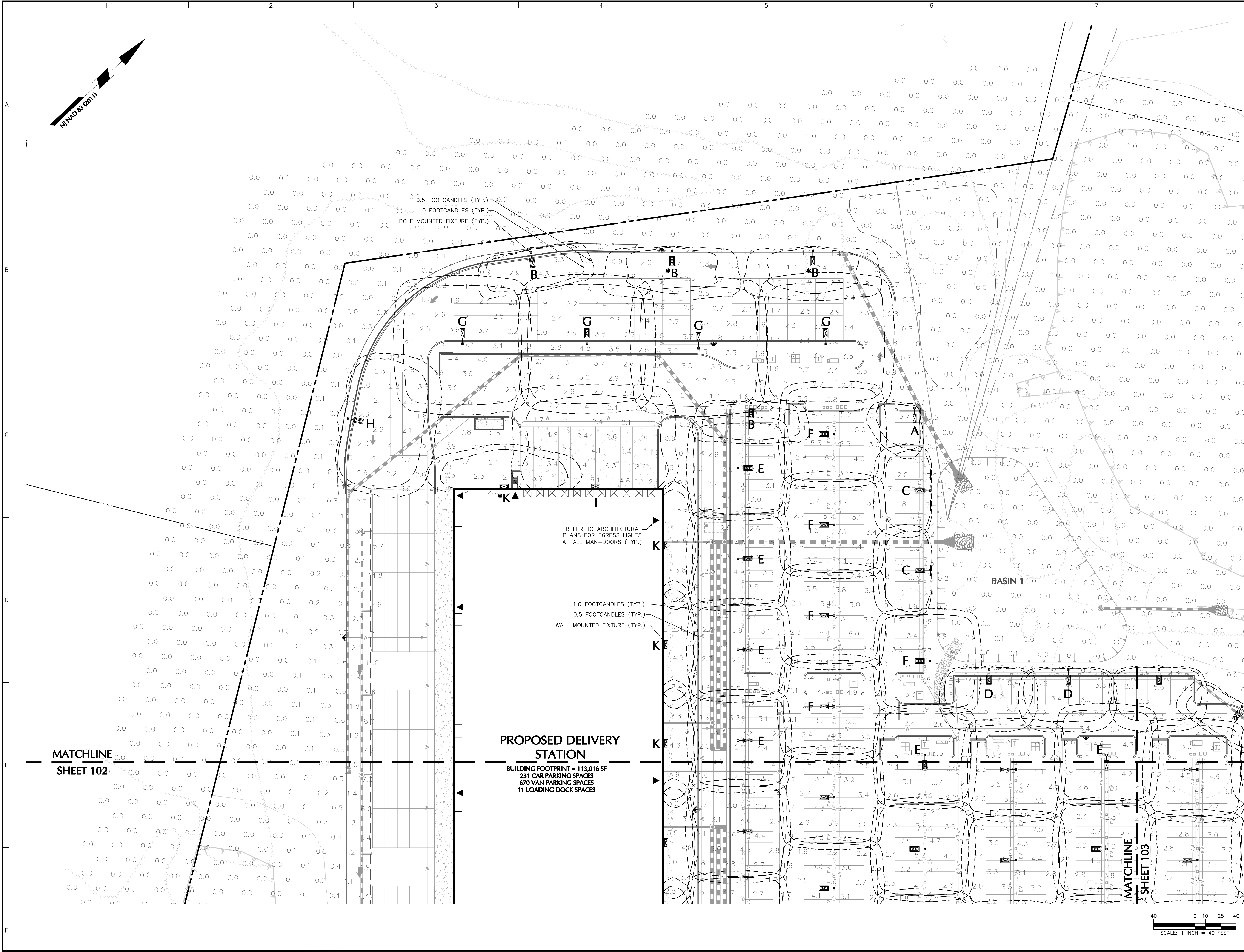
- REFER TO SHEETS LL101 THRU LL103 FOR PARTIAL LIGHTING PLANS.
- REFER TO SHEET LL501 FOR LIGHTING NOTES AND DETAILS.

SHEET 103

SHEET 102

| | | |
|---|-----------------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |
| REVISIONS | | |
|  SIGNATURE MICHAEL SZURA DATE SIGNED 09-21-2020 N.J. LICENSED LANDSCAPE ARCHITECT LICENSE NO. AS00815 | | |
| LANGAN Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 300 Kimball Drive Parsippany, NJ 07054 T: 973.560.4900 F: 973.560.4901 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400 | | |
| Project 1251 JUMPING BROOK ROAD BOROUGH OF TINTON FALLS BLOCK 128.03, LOT 47 | | |
| MONMOUTH COUNTY NEW JERSEY Drawing Title OVERALL LIGHTING PLAN | | |
| Project No. 100775501 | Drawing No. LL100 | |
| Date 06/25/2020 | | |
| Drawn By ML | | |
| Checked By DB/C | | |
| Sheet 41 of 50 | | |





- NOTES:
- BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 08/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 - ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - ALL LIGHT POLES SHALL UTILIZE UNDERGROUND WIRING. CONTRACTOR SHALL COORDINATE UNDERGROUND WIRING WITH THE ELECTRICAL ENGINEER ON RECORD.
 - REFER TO SHEET LL100 FOR OVERALL LIGHTING PLAN, LIGHTING SCHEDULE, STATISTICS, AND COMPLIANCE CHART.
 - REFER TO SHEET LL501 FOR LIGHTING NOTES AND DETAILS.
 - EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

Michael Szura 09-21-2020
SIGNATURE MICHAEL SZURA DATE SIGNED
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. AS00815

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Parsippany, NJ 07054

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

**1251 JUMPING
BROOK ROAD**
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

**PARTIAL LIGHTING
PLAN 1**

Project No.

100775501

Date

06/25/2020

Drawn By

ML

Checked By

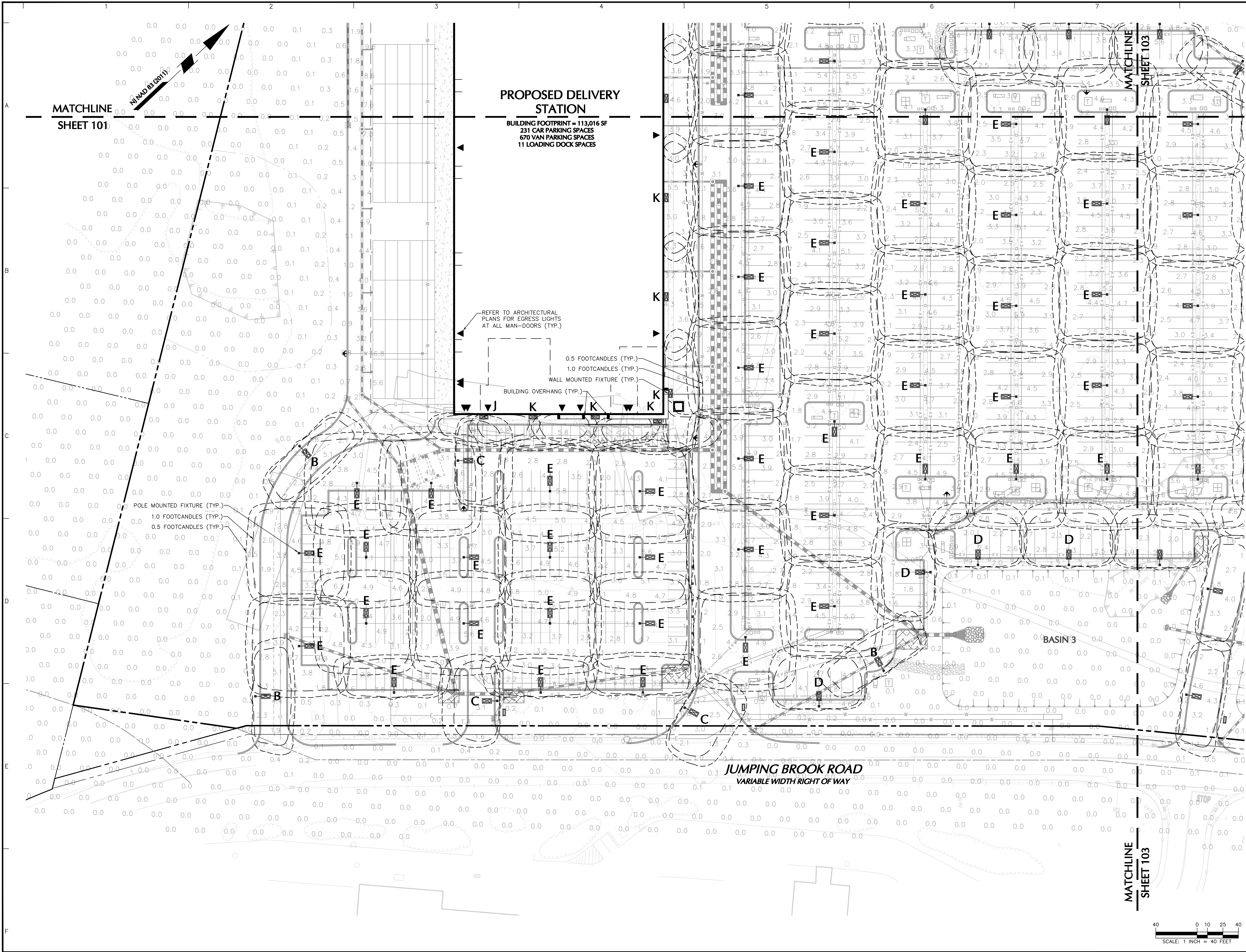
DB/C

Drawing No.

LL101

Sheet 42 of 50

40 0 10 25 40
SCALE: 1 INCH = 40 FEET



- NOTES:
1. BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 2. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ALL LIGHT POLES SHALL UTILIZE UNDERGROUND WIRING. CONTRACTOR SHALL COORDINATE UNDERGROUND WIRING WITH THE ELECTRICAL ENGINEER ON RECORD.
 4. REFER TO SHEET LL100 FOR OVERALL LIGHTING PLAN, LIGHTING SCHEDULE, STATISTICS, AND COMPLIANCE CHART.
 5. REFER TO SHEET LL501 FOR LIGHTING NOTES AND DETAILS.
 6. EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

Michael Szura 09-21-2020
SIGNATURE MICHAEL SZURA DATE SIGNED
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. AS00815

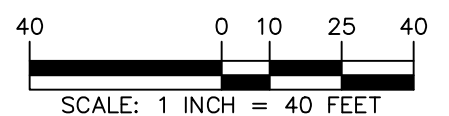
LANGAN
Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054

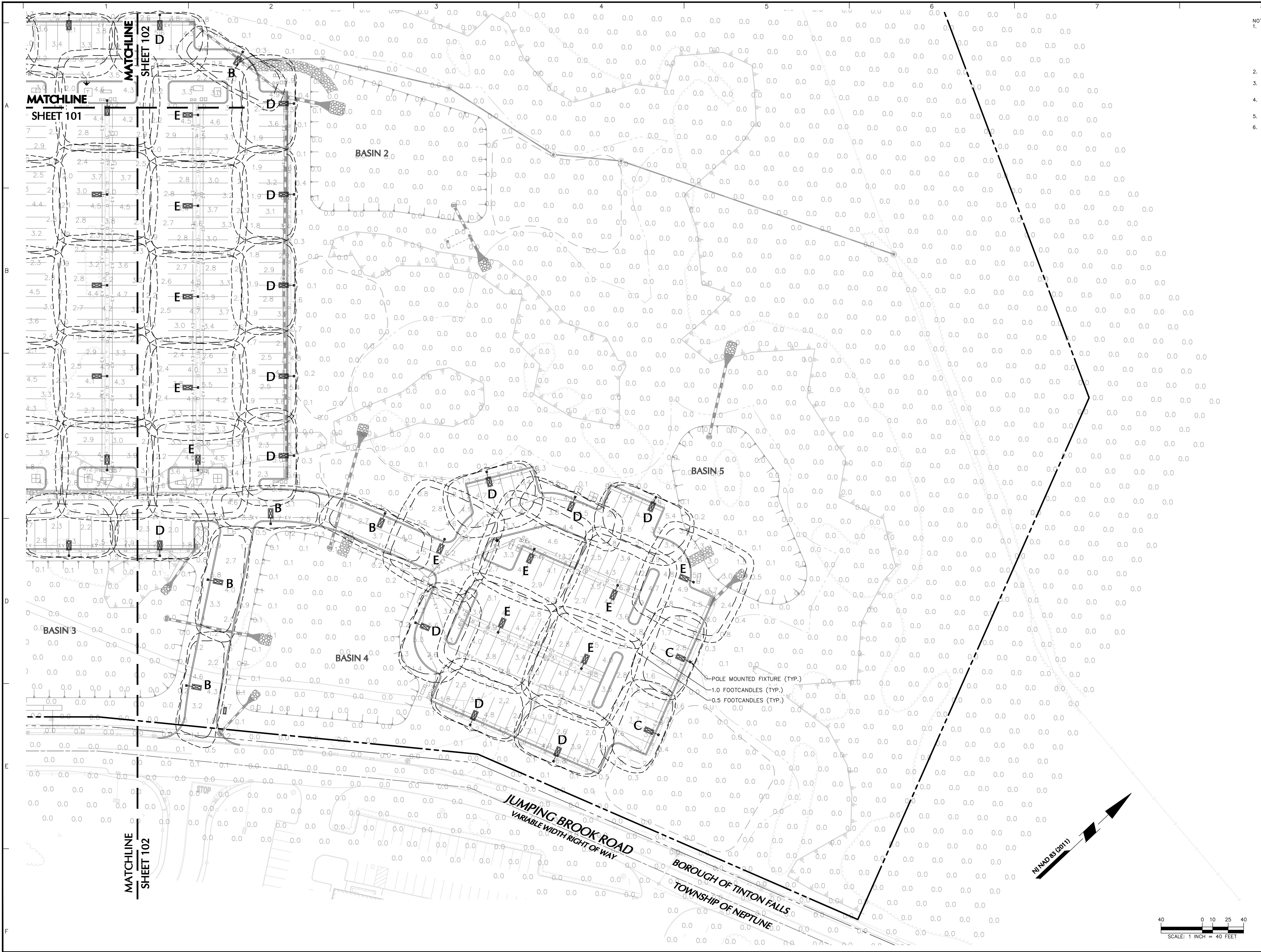
T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27956400

Project
1251 JUMPING BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY
Drawing Title

PARTIAL LIGHTING PLAN 2

| | |
|-------------|----------------|
| Project No. | Drawing No. |
| 100775501 | LL102 |
| Date | 06/25/2020 |
| Drawn By | ML |
| Checked By | DB/C |
| | Sheet 43 of 50 |





- NOTES:
- BOUNDARY INFORMATION AND EXISTING FEATURES FOR BLOCK 128.03, LOTS 47 SHOWN HEREON ARE BASED ON "ALTA/NSPS LAND TITLE SURVEY" DATED 06/24/2020 PREPARED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO THE EXECUTION OF CONTRACTS OR COMMENCING WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD.
 - ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVOD88).
 - ALL LIGHT POLES SHALL UTILIZE UNDERGROUND WIRING. CONTRACTOR SHALL COORDINATE UNDERGROUND WIRING WITH THE ELECTRICAL ENGINEER ON RECORD.
 - REFER TO SHEET LL100 FOR OVERALL LIGHTING PLAN, LIGHTING SCHEDULE, STATISTICS, AND COMPLIANCE CHART.
 - REFER TO SHEET LL501 FOR LIGHTING NOTES AND DETAILS.
 - EV ROUTING LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. FINAL LOCATIONS ARE SUBJECT TO CHANGE BASED ON FINAL ELECTRICAL DESIGN.

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

Michael Szura 09-21-2020
SIGNATURE MICHAEL SZURA DATE SIGNED
N.J. LICENSED LANDSCAPE ARCHITECT
LICENSE NO. AS00815

LANGAN
Langan Engineering, Environmental, Surveying,
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T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

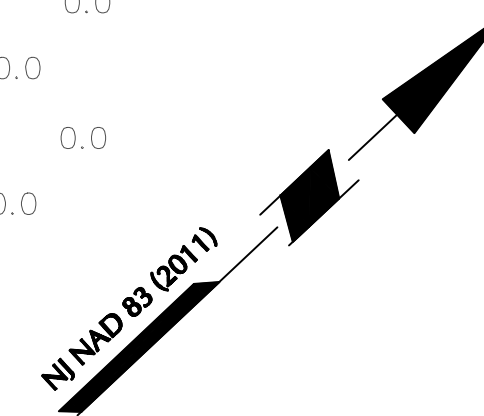
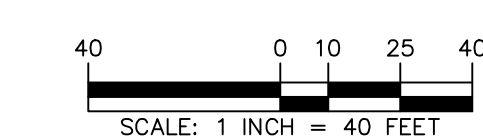
Project

**1251 JUMPING
BROOK ROAD**
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47
MONMOUTH COUNTY NEW JERSEY

Drawing Title

**PARTIAL LIGHTING
PLAN 3**

| | |
|---------------------------------|-----------------------------|
| Project No. 100775501 | Drawing No. LL103 |
| Date 06/25/2020 | |
| Drawn By ML | |
| Checked By DB/C | |



LIGHTING NOTES:

GENERAL

1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP / DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY. IN EITHER DIRECTION FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.

2. LIGHT LEVEL POINT SPACING IS 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

COMPLIANCE

3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.

4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

COORDINATION

5. CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.

6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.

7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.

8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.

9. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

POLES AND FOOTINGS

10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.

11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.

12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.

13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES

14. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.

15. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

ADJUSTMENT AND INSPECTION

16. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.

17. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.

18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

REQUIREMENTS FOR ALTERNATES

19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:

A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR.

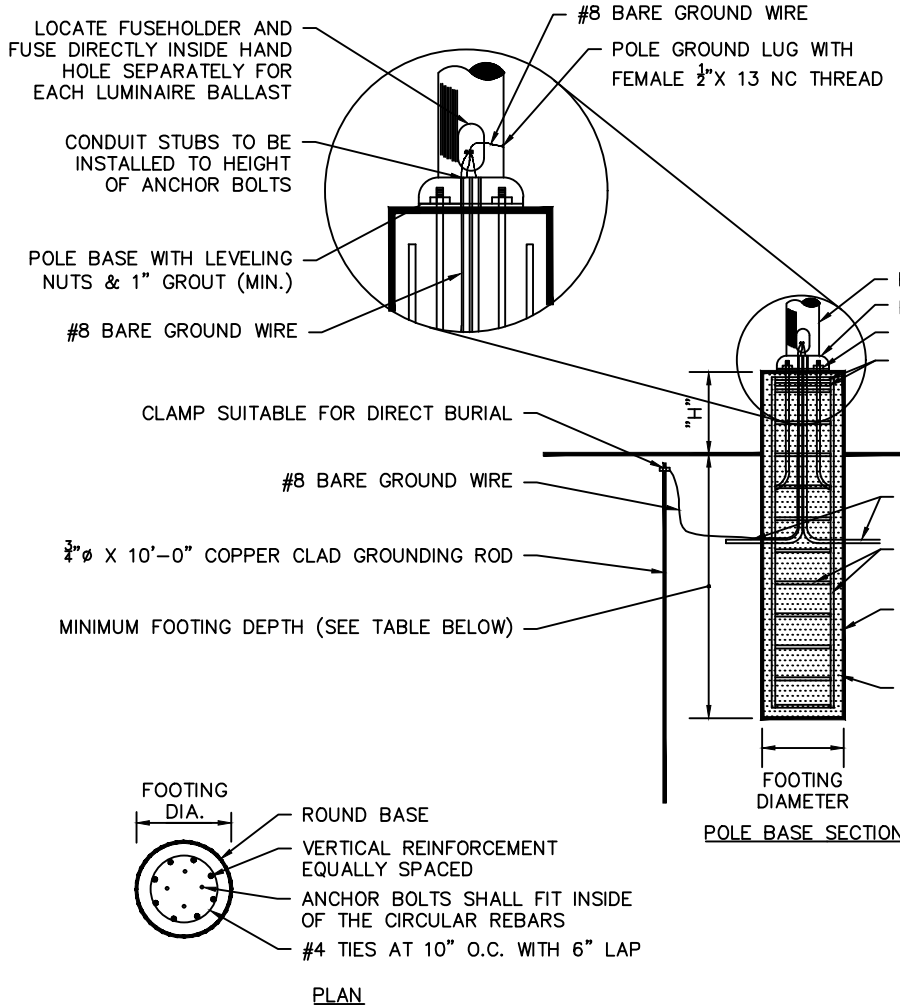
B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.

C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS, IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOFLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.

D. POLE MANUFACTURER ASKATO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.

F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNT, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.



| FOOTING | FOOTING DEPTH | FOOTING DIAMETER | EXPOSED HEIGHT +/-" | VERTICAL REINFORCEMENT |
|---------|---------------|------------------|---------------------|------------------------|
| 18'-0" | 5'-0" | 2'-0" | 3'-0" | 6#5 BARS |
| 25'-0" | 5'-9" | 2'-0" | 3'-0" | 6#5 BARS |

1 LIGHT POLE BASE
NTS

McGraw-Edison

DESCRIPTION

The Galleon™ Wall LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces in both an upward and downward configuration. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

| Catalog # | Type |
|-------------|------|
| Project | Date |
| Comments | |
| Prepared by | |

SPECIFICATION FEATURES

Construction

Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5g vibration test to ensure mechanical integrity. UPLIGHTING: Specifically with the UPL option for inverted mount upright housing with additional protections to maintain IP rating.

Optics

Choice of thirteen patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution of light maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K

and 6000K CCT. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive currents.

Electrical

LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Cooper Lighting Solutions proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" x 1" box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws which are concealed but accessible from bottom of fixture.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

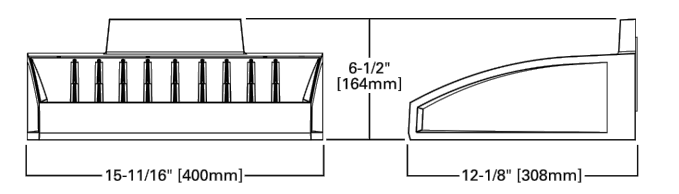
Warranty

Five-year warranty.

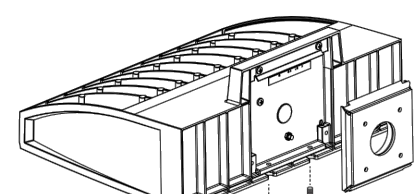


1-2 Light Squares
Solid State LED
WaveLink

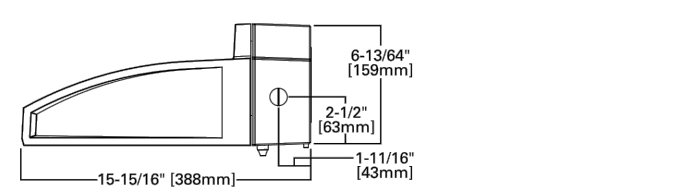
DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX



4 WALL FIXTURE
NTS



CERTIFICATION DATA

ULCS Listed
LM79 LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium® Qualified*

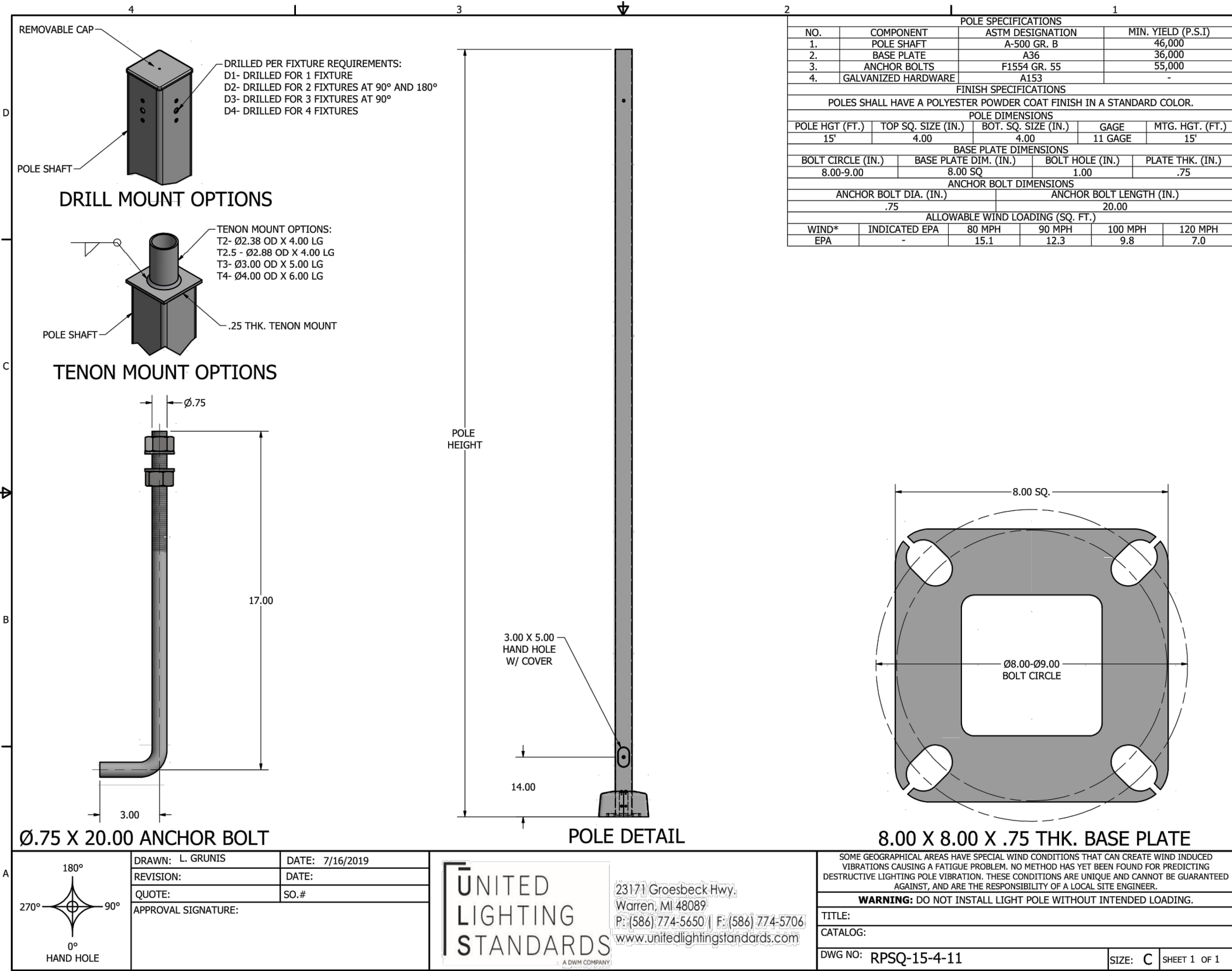
ENERGY DATA

Electronic LED Driver
+0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

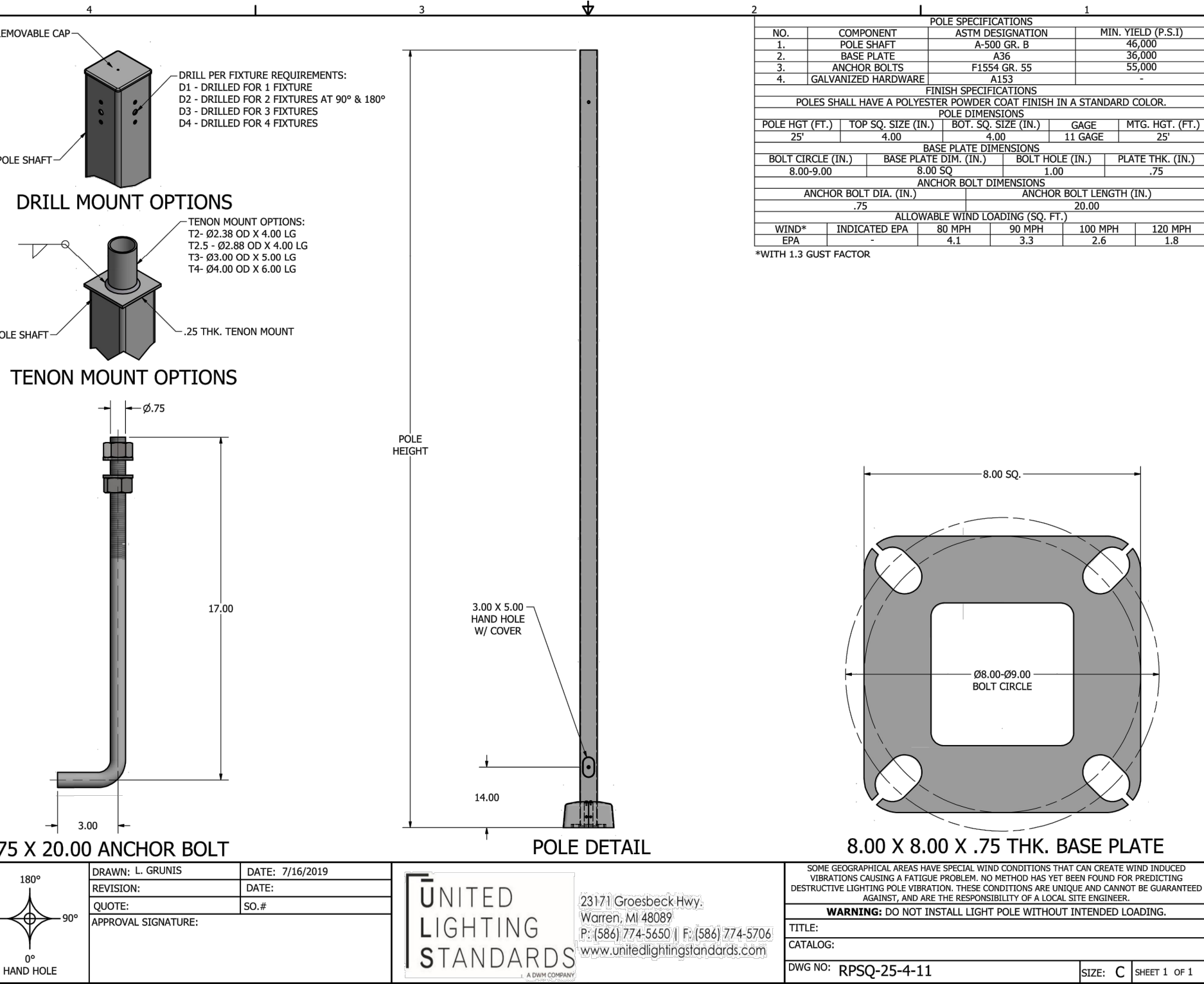
SHIPPING DATA

Approximate Net Weight:
27 lbs. (12.2 kg.)

TDS16017EN
March 10, 2020 9:37 AM
*www.designlights.org



5 LIGHT POLE - FOR 18'-0\"/>



6 LIGHT POLE - FOR 25'-0\"/>

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and ULCS Listed for wet locations.

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-walled, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT to CRI. Optional 3000K, 5000K and 6000K CCT.

McGraw-Edison

| Catalog # | Type |
|-------------|------|
| Project | Date |
| Comments | |
| Prepared by | |

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



GLEON
GALLEON LED

1-10 Light Squares
Solid State LED
AREA/SITE LUMINAIRE

WaveLink



CERTIFICATION DATA

3G Vibration Rated
DesignLights Consortium® Qualified*
Dark Sky Approved (2000K CCT and warmer only)
IP66 Rating
ISO 9001
LM79 LM80 Compliant
ULCS Listed Location Listed

ENERGY DATA

Electronic LED Driver
+0.9 Power Factor
<20% Total Harmonic Distortion
120V 277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

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March 9, 2020 2:14 PM
*www.designlights.org

| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

SIGNATURE: RICHARD BURROW DATE SIGNED: 09-21-2020
PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

LANGAN

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

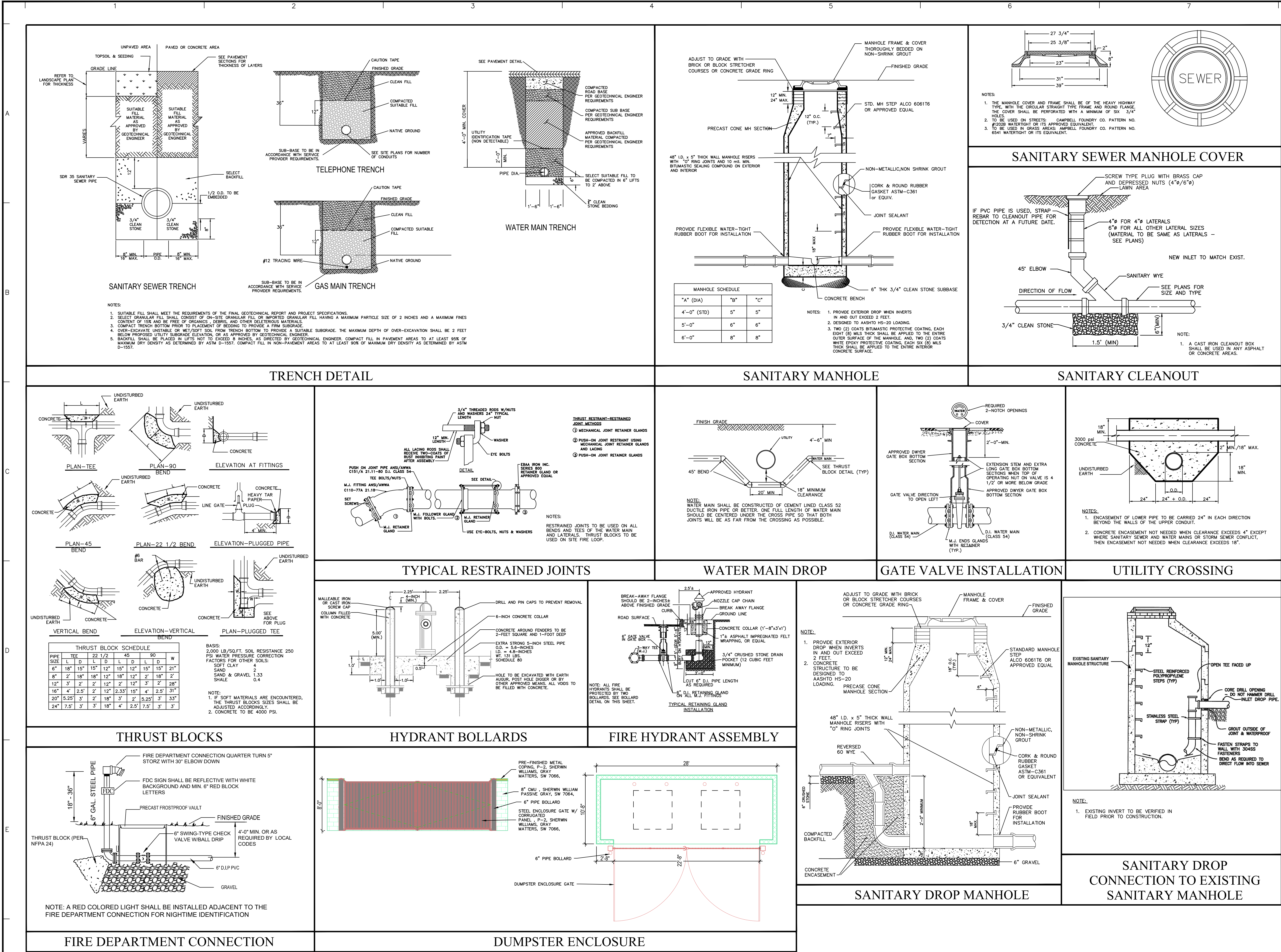
1251 JUMPING
BROOK ROAD
BOROUGH OF TINTON FALLS
BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY
Drawing Title

LIGHTING NOTES
AND DETAILS

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | LL501 |
| Date | 06/25/2020 |
| Drawn By | ML |
| Checked By | DB/JC |
| Sheet | 45 of 50 |





| | | |
|---------|-----------------------|-----|
| 9/17/20 | PER TOWNSHIP COMMENTS | 1 |
| Date | Description | No. |

REVISIONS

9/21-2020

SIGNATURE RICHARD BURROW DATE SIGNED 24GE04459300

PROFESSIONAL ENGINEER NJ Lic. No. 24GE04459300

LANGAN

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300 Kimball Drive Parsippany, NJ 07054

T: 973.560.4900 F: 973.560.4901 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

1251 JUMPING BROOK ROAD

BOROUGH OF TINTON FALLS BLOCK 128.03, LOT 47

MONMOUTH COUNTY NEW JERSEY

Drawing Title

SITE DETAILS 2

| | |
|-------------|-------------|
| Project No. | Drawing No. |
| 100775501 | CS502 |
| Date | 06/25/2020 |
| Drawn By | RY |
| Checked By | RB |
| Sheet | 47 of 50 |

