Project Design Plans

Mastic Beach Drainage Improvements (60% Submission)

TOWN OF BROOKHAVEN
MASTIC BEACH DRAINAGE IMPROVEMENTS
DASNY PROJECT No. 3264609999

MASTIC BEACH, TOWN OF BROOKHAVEN
SUFFOLK COUNTY, NEW YORK

60% SUBMISSION

H2M architects + engineers

538 Broad Hollow Road
4th Floor East
Melville, NY 11747
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Melville, NY 11747
Albany, NY 12205
New York, NY 10001
White Plains, NY 11604
New City, NY 10956
Parsippany, NJ 07054
Howell, NJ 07731

Seal & Signature

CIVIL ENGINEER:

H2M ARCHITECTS + ENGINEERS
538 BROAD HOLLOW ROAD
4TH FLOOR EAST
MELVILLE, NY 11714
PHONE (631) 756-8000

Seal & Signature

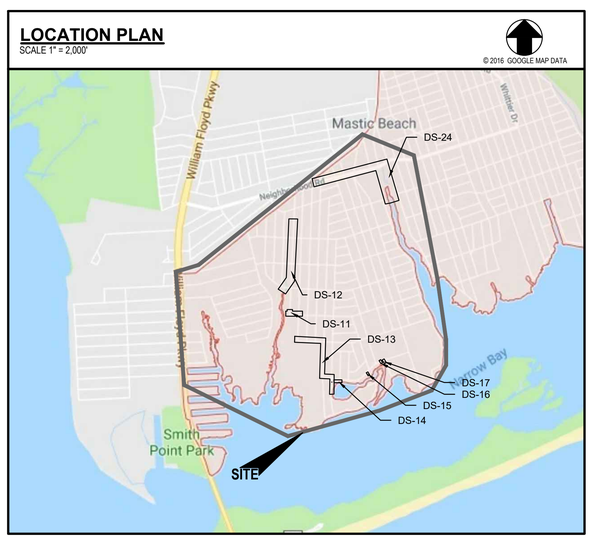
CIVIL ENGINEER:

MATRIX NEW WORLD ENGINEERS
26 COLUMBIA TURNPIKE
FLORHAM PARK, NJ 07932

NYC DOB APPROVAL STAMPS

NYC DOB BSCAN

LOCATION PLAN



LIST of DRAWINGS

C-000.00 TITLE SHEET
C-000.01 NOTES + LEGENDS

CIVIL ENGINEERING:

C-001.00 NEIGHBORHOOD ROAD (DS-24) PLAN AND PROFILE STA. 0+00 TO STA. 7+39
C-002.00 NEIGHBORHOOD ROAD (DS-24) PLAN AND PROFILE STA. 7+39 TO STA. 12+16
C-003.00 MAYWOOD ROAD (DS-12) PLAN AND PROFILE STA. 0+00 TO STA. 8+25
C-004.00 MAYWOOD ROAD (DS-12) PLAN AND PROFILE STA. 8+25 TO STA. 15+36
C-005.00 GOOSEBERRY ROAD (DS-11) PLAN AND PROFILE
C-006.00 HICKORY ROAD (DS-13) PLAN AND PROFILE STA. 0+00 TO STA. 5+50
C-007.00 HICKORY ROAD (DS-13) PLAN AND PROFILE STA. 5+50 TO STA. 14+50
C-008.00 HICKORY ROAD (DS-13) PLAN AND PROFILE STA. 14+50 TO STA. 21+31
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C-012.00 DETAILS

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TOWN OF BROOKHAVEN
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH, TOWN OF BROOKHAVEN
SUFFOLK COUNTY, NEW YORK

60% SUBMISSION

Date: 09/07/2018

DASNY Project No: 3264609999

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SPOT ELEVATION	100.0 ×	+121.50
TOP AND BOTTOM CURB ELEVATION	tc 100.50 bc 100.00	TC140.00 BC139.50
MAJOR CONTOUR	100	240
MINOR CONTOUR	100	241
VALVE PIT STRUCTURE		
BORING / TEST HOLE LOCATION		
RIDGE LINE		
RETAINING WALL		
FIELD INLET		
CATCH BASIN		
UTILITY MANHOLE	S D E T U	S D E T U
YARD INLET		
BLOW-OFF PIT		
ROOF LEADER	OL	OL
DRYWELL W/GRATE		
DRYWELL W/ SOLID COVER		
MONITORING WELL		
HYDRANT		
UTILITY METER/VALUE		
CLEAN OUT		
SANITARY SEPTIC TANK / GREASE TRAP		
SANITARY LEACHING POOL		
LIGHT POLE		
GROUND LIGHT		
UTILITY POLE/GUY POLE		
TRAFFIC SIGNAL POLE		
TRAFFIC CONTROL BOX		
CABLE BOX		
LIGHT POLE W/FIXTURE(S)		
FLOW ARROW		
BLOWOFF LINE	BO BO	BO BO
GAS LINE	G G	G G
SANITARY LINE	S S	S S
DRAINAGE LINE	D D	D D
ELECTRIC LINE	E E	E E
CABLE TELEVISION LINE	CTV CTV	CTV CTV
ROOF LEADER LINE	R R	R R
FIRE SERVICE LINE	FS FS	FS FS
WATER LINE	W W	W W
WATER SERVICE LINE	WS WS	WS WS
SANITARY HOUSE CONNECTION	HC HC	HC HC
SANITARY FORCEMAIN LINE	FM FM	FM FM
OVERHEAD UTILITIES LINE	O/H O/H	O/H O/H

EXISTING CONDITIONS NOTES:

1. EXISTING SURVEY PREPARED BY MFS CONSULTING ENGINEERS & SURVEYOR DPC. DATED 5/31/18.
2. LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER OLD MAPS, SURVEYS, DRAWINGS/RECORDS SUPPLIED BY OTHERS AND/OR UTILITY MARKOUT. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES AND STRUCTURES NOT SHOWN.

SITE REMOVAL NOTES:

1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
8. SAWCUT CONCRETE PAVEMENT BACK TO NEAREST EXPANSION/CONTROL JOINT.
9. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
10. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
11. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
12. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
13. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
14. BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

SITE PLAN NOTES:

1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
6. ALL CURB DIMENSIONS SHOWN REFER TO THE FACE OF CURB.
7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
10. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED.
11. REMOVE ALL ASPHALT FROM EXISTING CASTINGS.
12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.

GRADING AND DRAINAGE NOTES:

1. FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, ABUTTING SURFACES SHALL BE FLUSH AND ALIGNED.
2. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF ALL ROOF DRAINS AND SANITARY HOUSE CONNECTIONS PRIOR TO COMMENCING SITE DRAINAGE AND SANITARY CONSTRUCTION.
3. ADJUST ALL EXISTING CASTINGS AND VALVE COVERS TO MEET PROPOSED GRADE.
4. CONSTRUCTION DEBRIS AND EXCESS SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OFF SITE.
5. UNSUITABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.

UTILITY NOTES

1. HAND DIG TO LOCATE AND EXPOSE EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS WITH RESPECTIVE UTILITY OWNERS. ANY DAMAGE TO EXISTING UTILITIES MUST BE REPAIRED IMMEDIATELY BY CONTRACTOR AT NO COST TO OWNER.
2. ALL EXISTING UTILITIES WILL BE RELOCATED DURING CONSTRUCTION BY THE OWNERS/OPERATORS OF THE UTILITIES. CONTRACTOR WILL BE RESPONSIBLE FOR DEWATERING, SAW CUTTING, EXCAVATION, BACKFILLING AND TEMPORARY ASPHALT. COORDINATE RELOCATION WITH UTILITY COMPANIES AS REQUIRED. EXCAVATE TEST PITS TO LOCATE ALL EXISTING UTILITIES.

DRIVEWAY RESTORATION NOTES

1. RESTORE AND REPLACE IN KIND ALL DRIVEWAYS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION.

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Consultants:

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Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/2018
2		
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Client

TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title

MASTIC BEACH
DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title

NOTES & LEGENDS

H2M Job # DASN 1804 *Scale*

Phase

30% SUBMISSION

Drawn By:	Checked By:	Date:
DS	SPC	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number

C-000.01

Drawing 1 of 13

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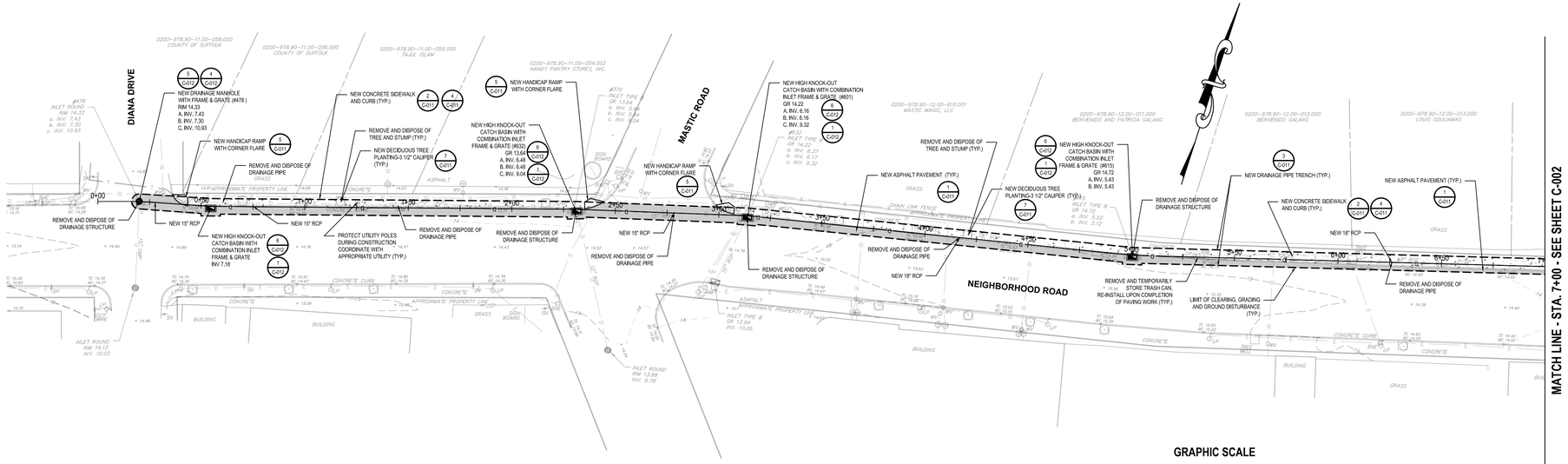


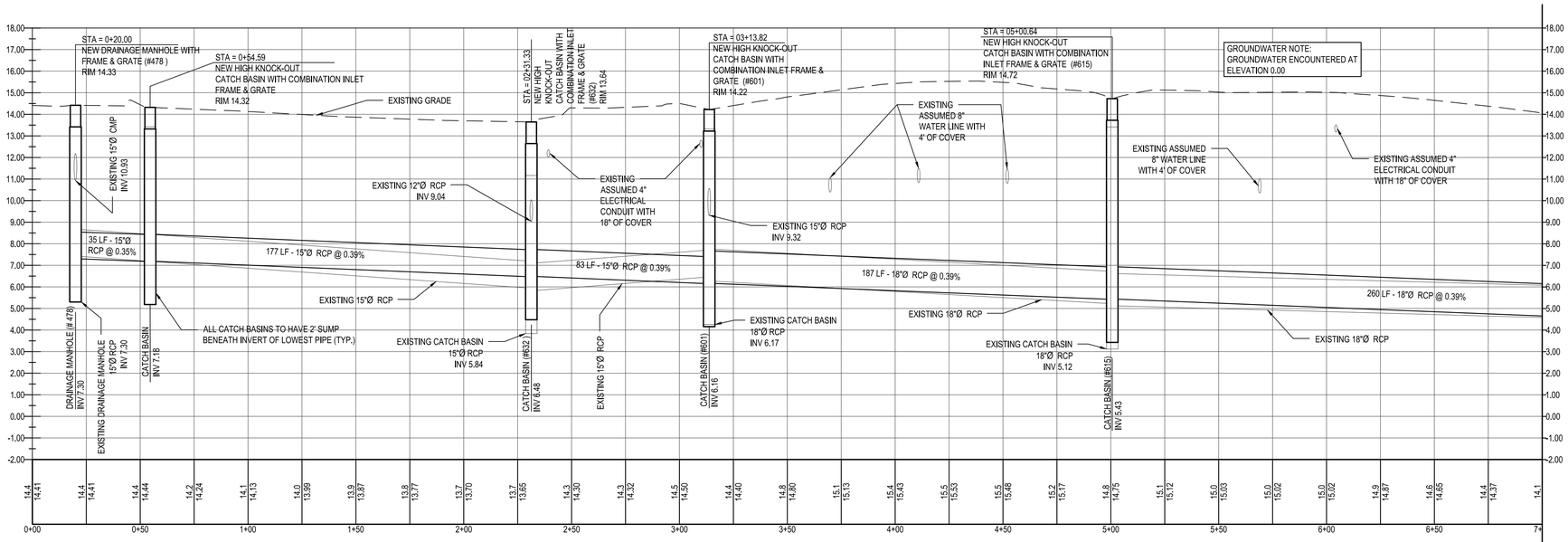
Neighborhood Road Plan (DS-24)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



Neighborhood Road Drainage Profile (DS-24) (Sta. 0.00 to 7+00)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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H2M architects + engineers

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Eatontown, New Jersey 07724 — Fax: 973-240-1918
email: info@matrix-nw.com — www.matrix-nw.com
STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No.: 0149001

Project Key

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Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
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Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
NEIGHBORHOOD ROAD (DS-24) PLAN AND PROFILE STA 0+00 TO STA. 7+00

H2M Job # DASN 1804 — Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-001.00

Drawing 2 of 13

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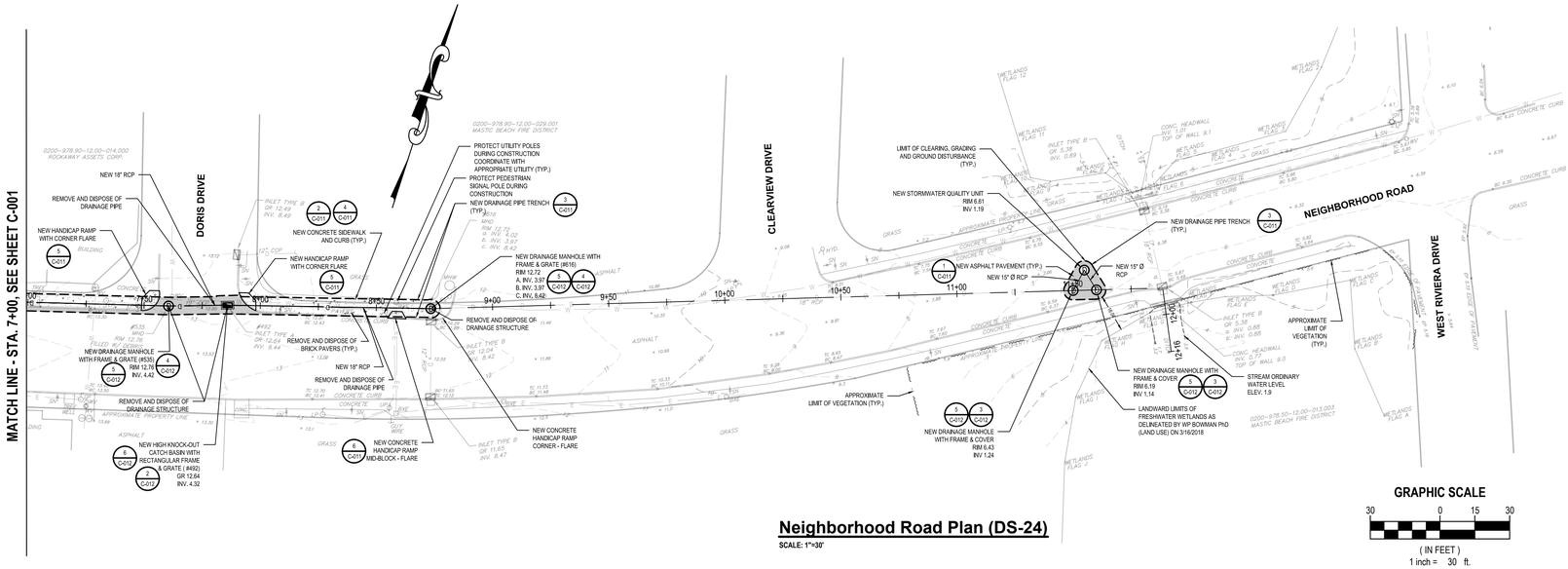

Neighborhood Road Plan (DS-24)

SCALE: 1"=30'

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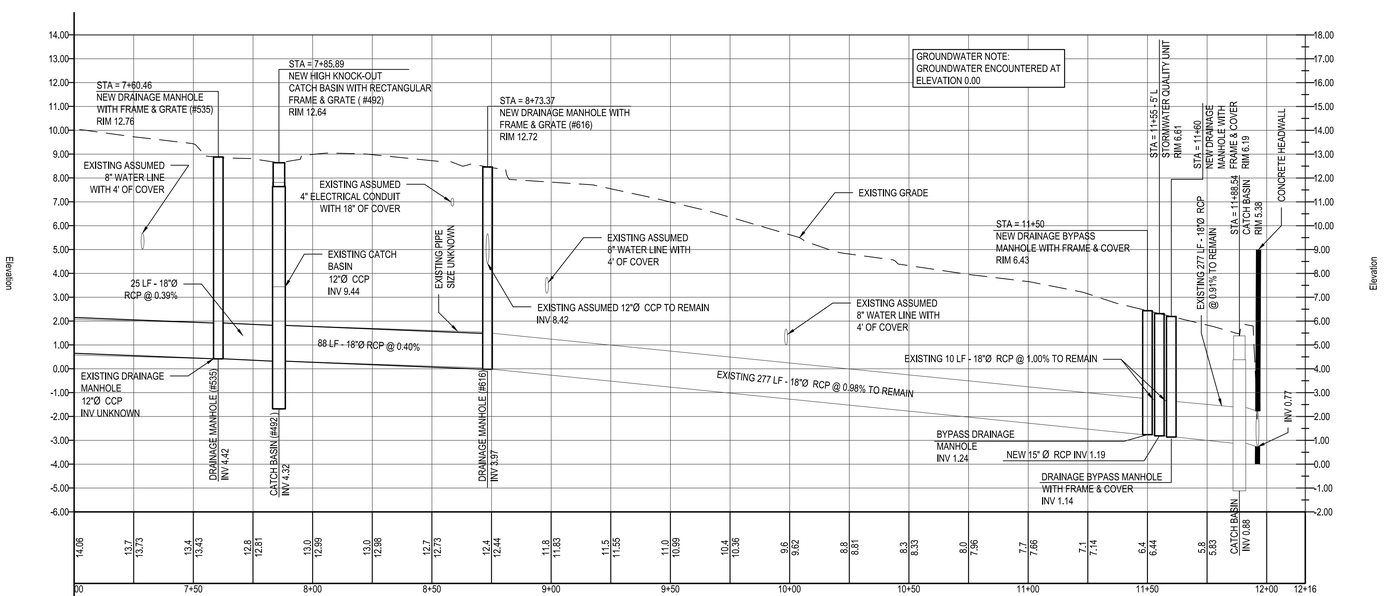

Neighborhood Road Drainage Profile (DS-24) (Sta. 7+00 to 12+16)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

MATCH LINE - STA. 7+00
SEE SHEET C-001

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1 INDEPENDENCE HILL
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NEIGHBORHOOD ROAD (DS-24) PLAN AND PROFILE STA 7+00 TO STA. 12+16

H2M Job # DASN 1804 Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-002.00

Drawing 3 of 13

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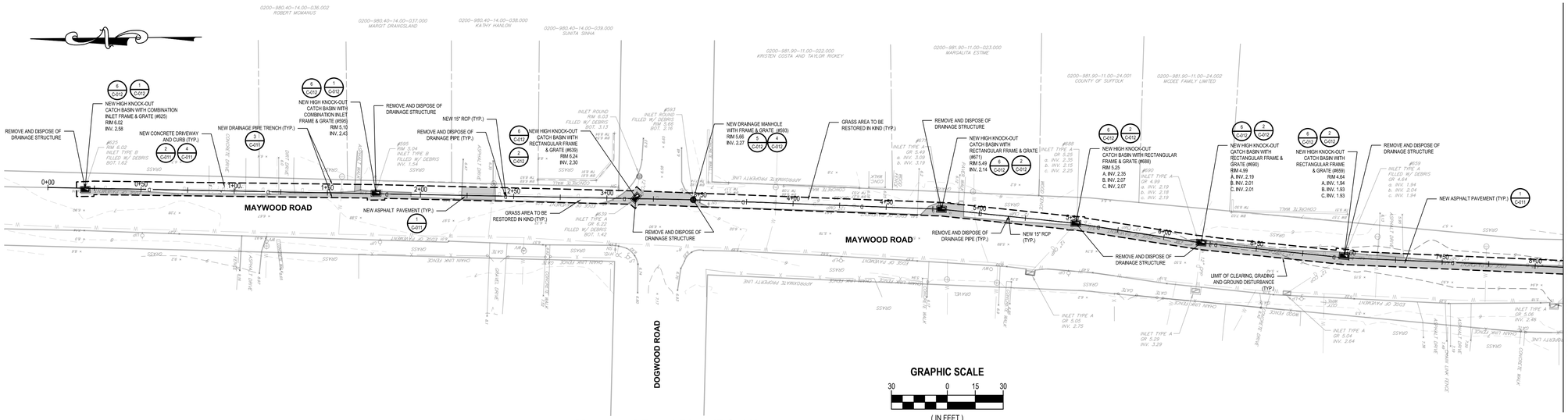


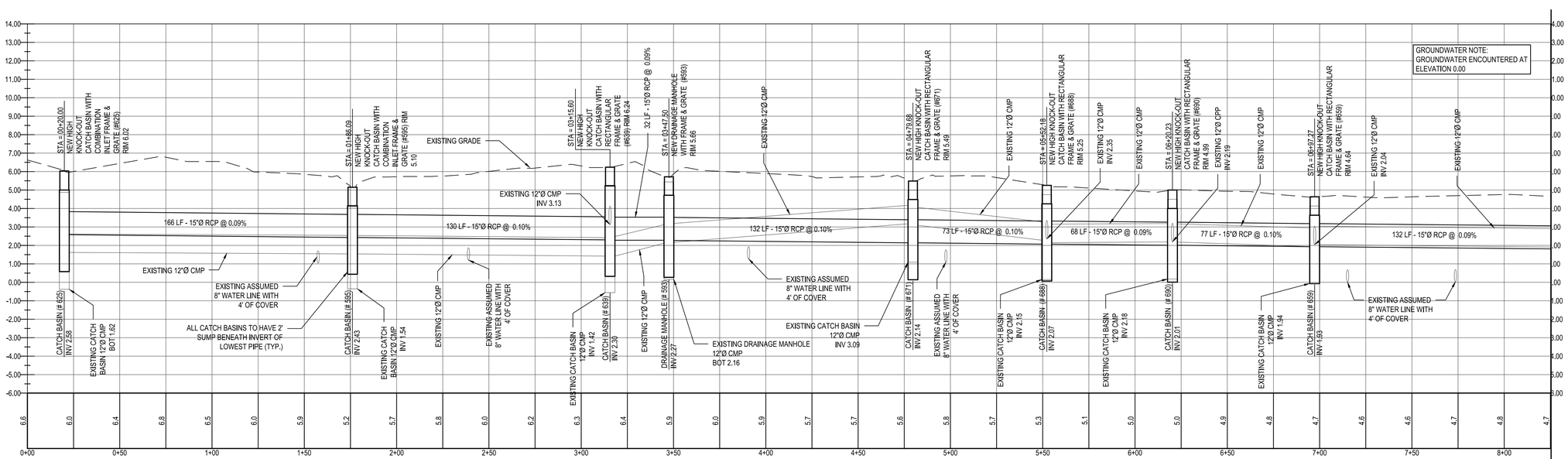
Maywood Road Plan (DS-12)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



Maywood Road Drainage Profile (DS-12) (Sta. 0+00 to 8+25)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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FARMINGVILLE, NY 11738

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MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
MAYWOOD ROAD (DS-12) PLAN AND PROFILE
STA. 0+00 TO STA. 8+25

H2M Job # DASN 1804 — Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number C-003.00

Drawing 4 of 13

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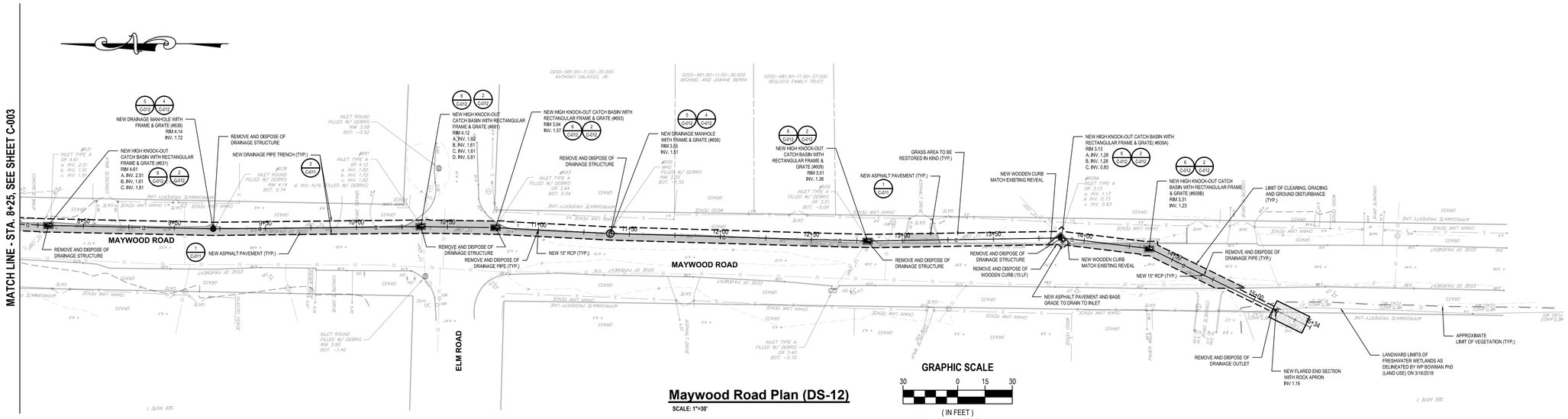


Maywood Road Plan (DS-12)

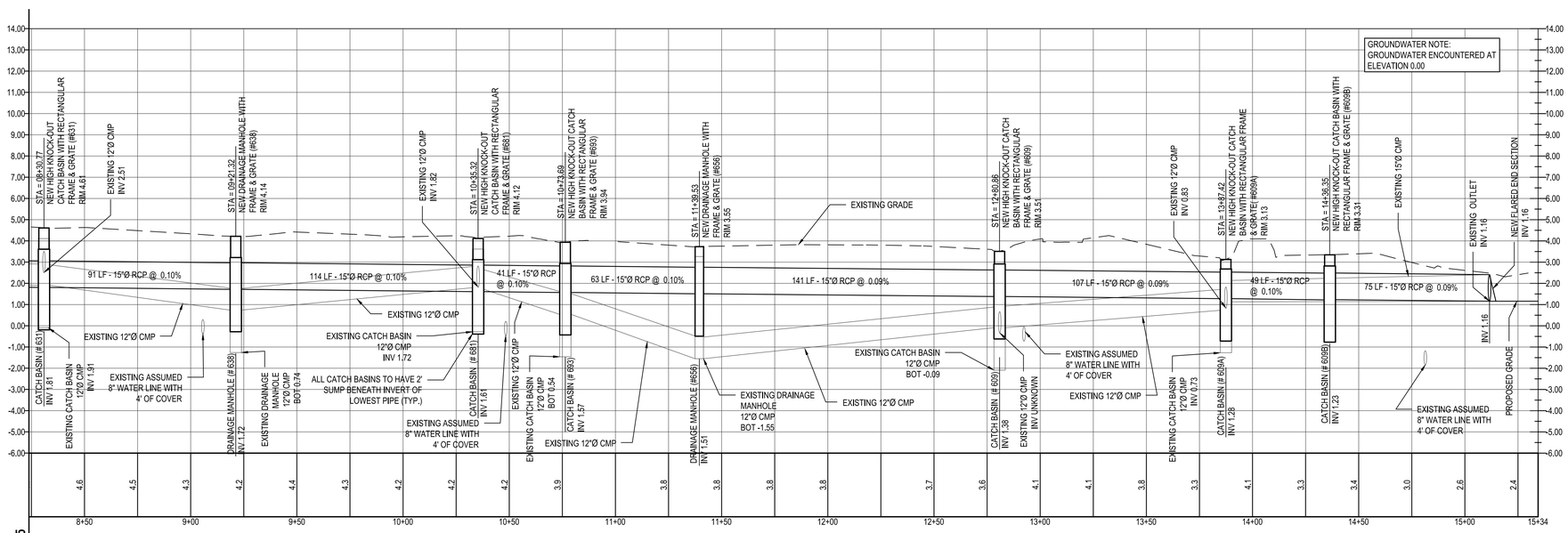
SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

MATCH LINE - STA. 8+25
SEE SHEET C-002



Maywood Road Drainage Profile (DS-12) (Sta. 8+25 to 15+34)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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Eatontown, New Jersey 07724 — Fax: 973-240-1918
www.matrix-nw.com — info@matrix-nw.com
STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No. 21456001

Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
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9		

Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
MAYWOOD ROAD (DS-12) PLAN AND PROFILE
STA. 8+25 TO STA. 15+34

H2M Job # DASN 1804 *Scale* 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

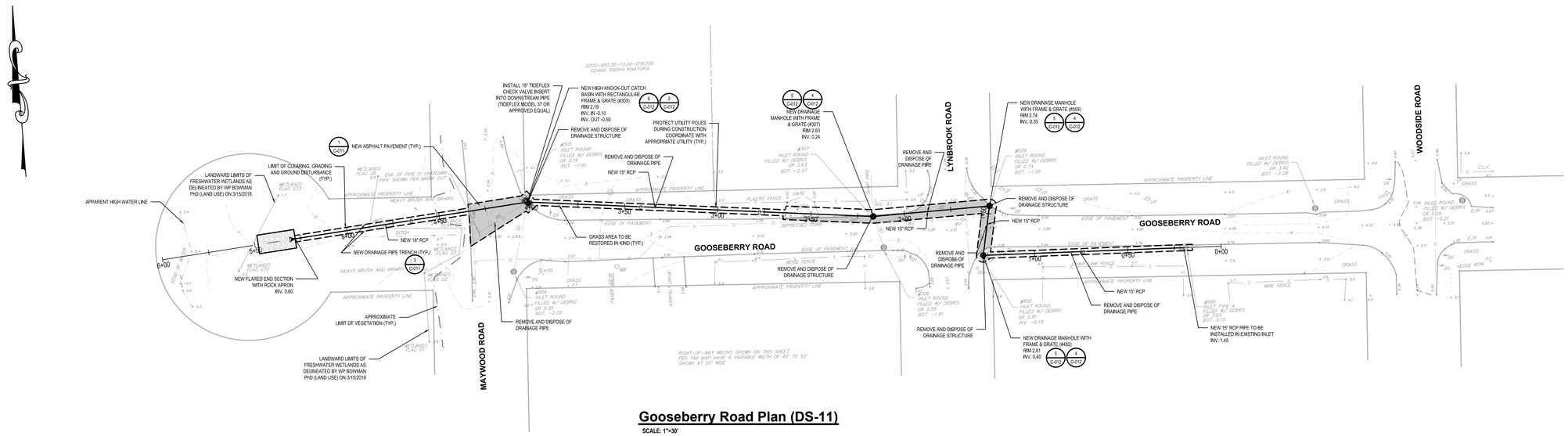
Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-004.00

Drawing 5 of 13

F:\2017\17-987 DASNY Mastic Beach Drainage\Dwg\Plot Sheets\SC03.0 Plan and Profile.dwg Last Modified: Sep 07, 2018 - 1:35pm Plotted on: Sep 07, 2018 - 1:37pm By: bjobson



Gooseberry Road Plan (DS-11)

SCALE: 1"=30'

WETLAND RESTORATION NOTES:

1. RE-PLANT DISTURBED WETLAND AREAS WITH THE FOLLOWING:
   - SWEET PEPPERBUSH (CLETHRA ALNIFOLIA); 3-4' SHRUBS, 6 FT O.C.
   - NORTHERN ARROWWOOD (VIBURNUM DENTATUM); 3-4' SHRUBS, 6 FT O.C.
2. SEED DISTURBED WETLAND AREA WITH NJ SALT TOLERANT BASIN MIX AT A RATE OF 20 LBS PLS PER ACRE.

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

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- Confirm Utility Response
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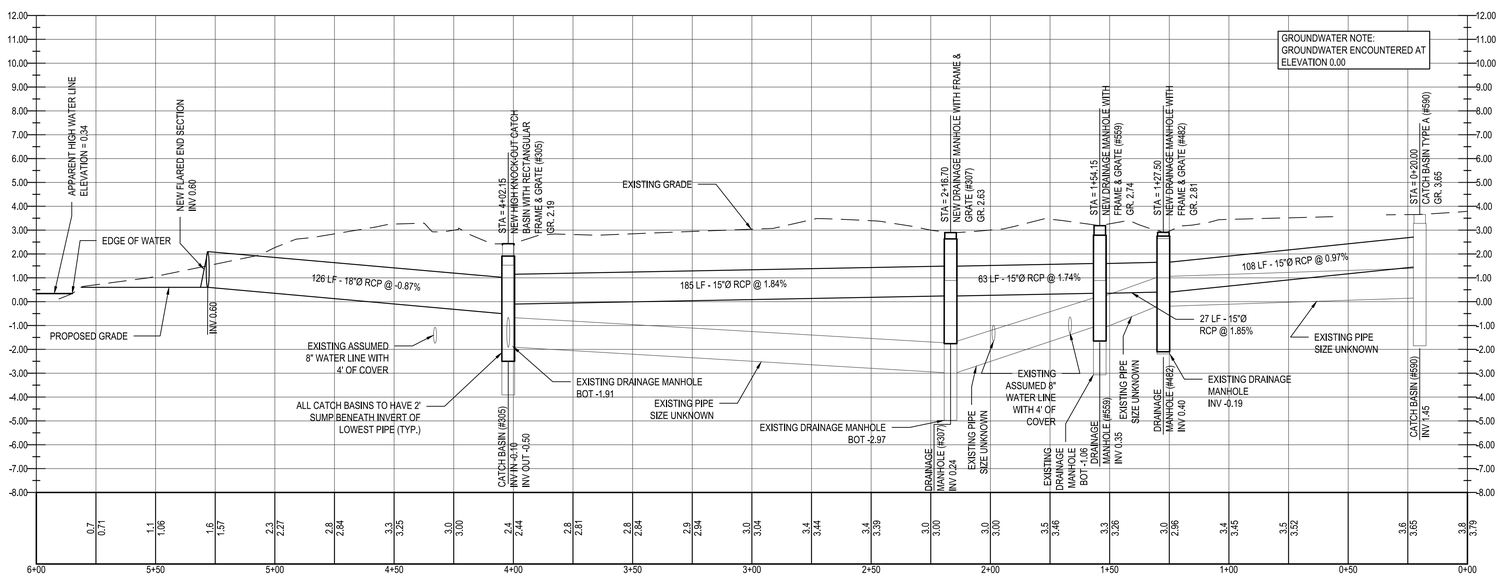

Gooseberry Road Drainage Profile (DS-11)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
3		
4		
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7		
8		
9		

Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
GOOSEBERRY ROAD (DS-11) PLAN AND PROFILE

H2M Job # DASN 1804 — Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-005.00

Drawing 6 of 13

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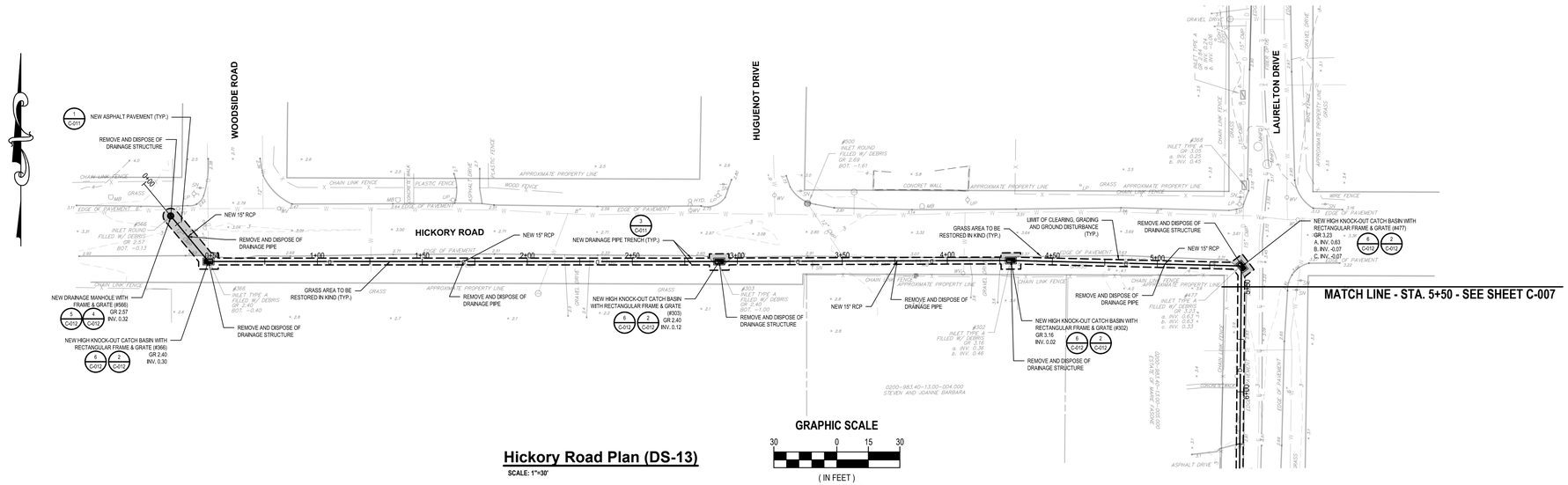


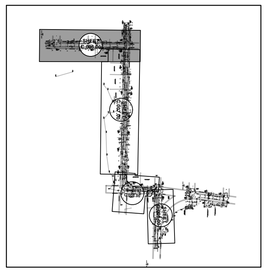
Hickory Road Plan (DS-13)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



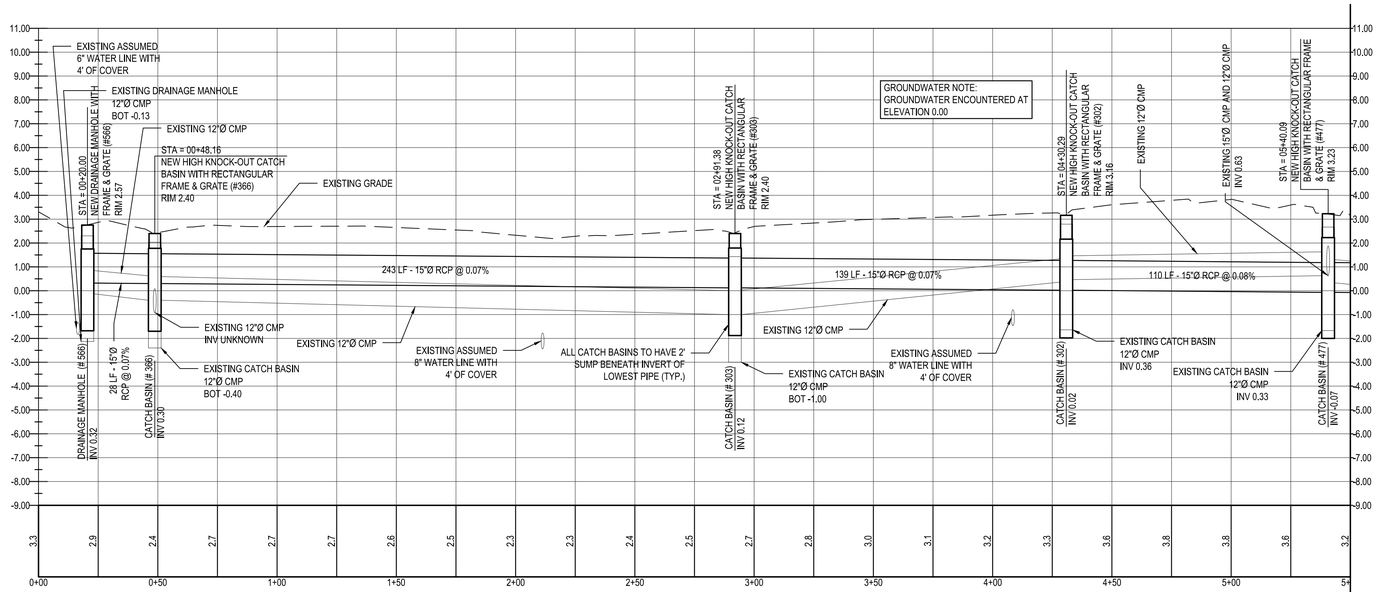
Hickory Road Key Map (DS-13)

SCALE: 1"=300'

GRAPHIC SCALE

300 0 150 300

(IN FEET)
1 inch = 300 ft.



Hickory Road Drainage Profile (DS-13) (0+00-5+50)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
3		
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5		
6		
7		
8		
9		

Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
HICKORY ROAD (DS-13) PLAN AND PROFILE STA 0+00 TO STA 5+50

H2M Job # DASN 1804 Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-006.00

Drawing 7 of 13

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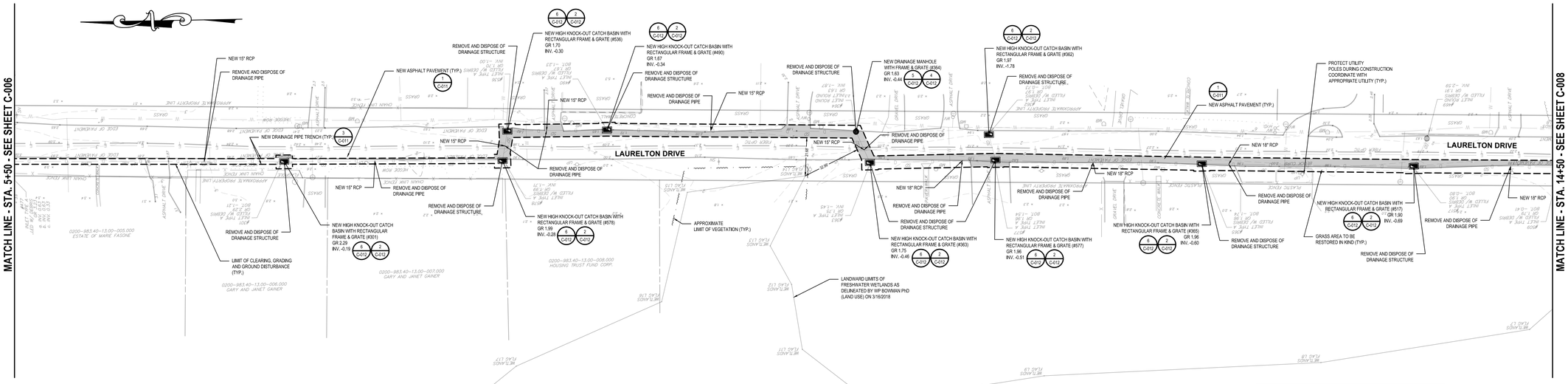

Hickory Road Plan (DS-13)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

New York 811

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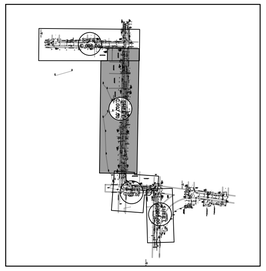


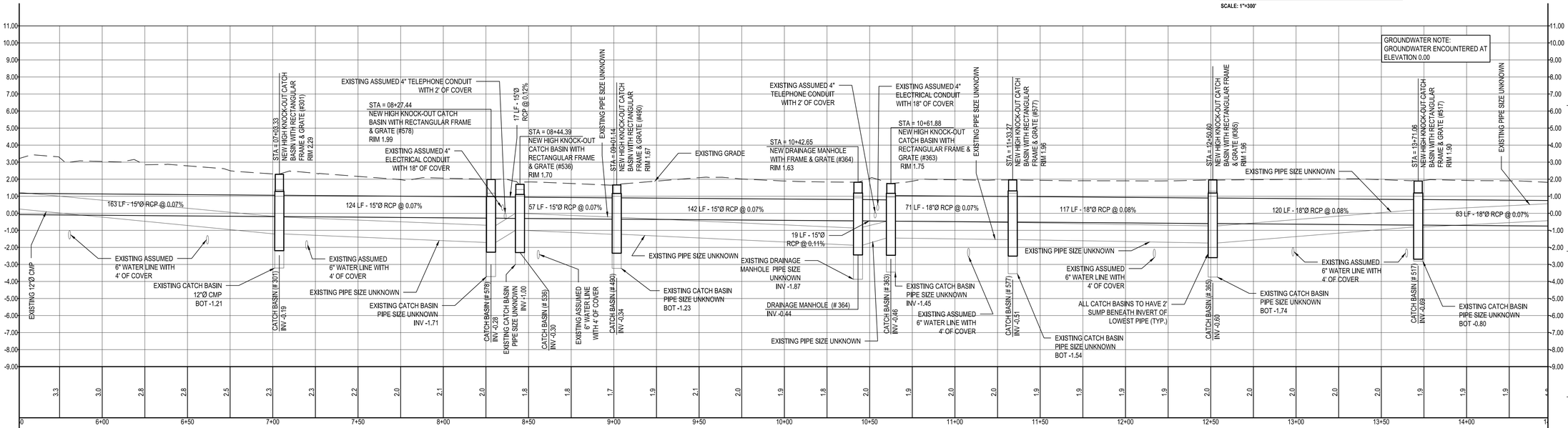
Hickory Road Key Map (DS-13)

SCALE: 1"=300'

GRAPHIC SCALE

300 0 150 300

(IN FEET)
1 inch = 300 ft.



Hickory Road Drainage Profile (DS-13) (5+50-14+50)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

MATCH LINE - STA. 5+50 SEE SHEET C-006

MATCH LINE - STA. 14+50 SEE SHEET C-008

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HVRF: 082, 398 www.matrixnewworld.com
STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No. 0146001

Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
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Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
HICKORY ROAD (DS-13) PLAN AND PROFILE
STA 5+50 TO STA 14+50

H2M Job # DASN 1804 Scale 1" = 30'
Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999
Drawing Number
C-007.00
Drawing 8 of 13

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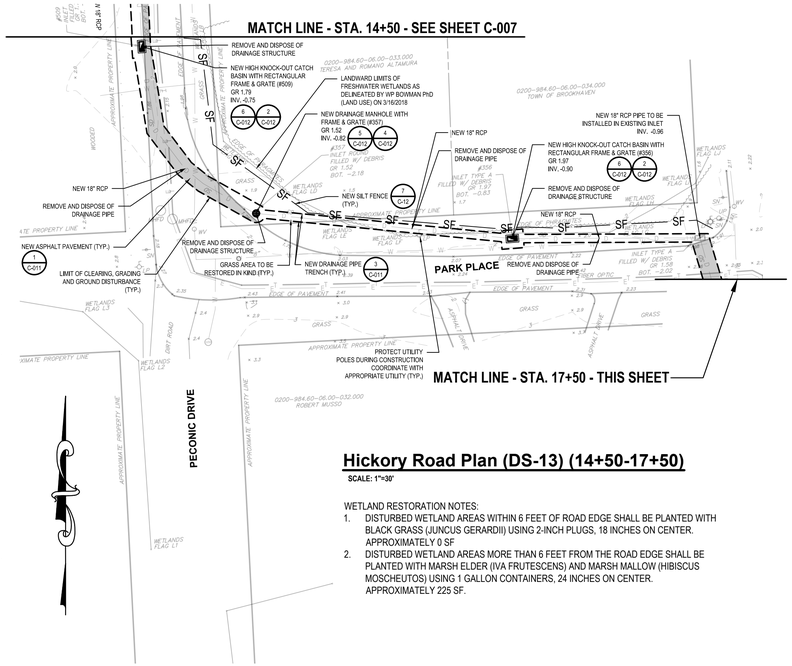
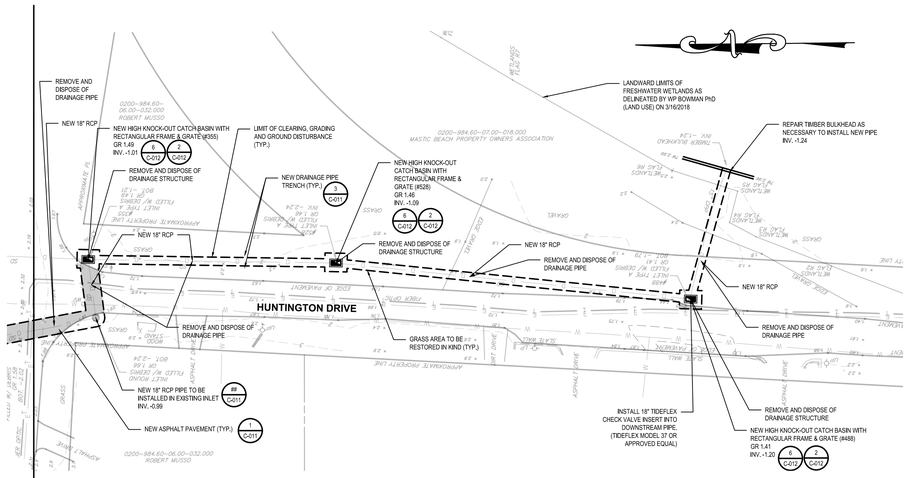


Hickory Road Plan (DS-13) (14+50-17+50)

SCALE: 1"=30'

WETLAND RESTORATION NOTES:

1. DISTURBED WETLAND AREAS WITHIN 6 FEET OF ROAD EDGE SHALL BE PLANTED WITH BLACK GRASS (JUNCUS GERARDII) USING 2-INCH PLUGS, 18 INCHES ON CENTER. APPROXIMATELY 0 SF
2. DISTURBED WETLAND AREAS MORE THAN 6 FEET FROM THE ROAD EDGE SHALL BE PLANTED WITH MARSH ELDER (IVA FRUTESCENS) AND MARSH MALLOW (HIBISCUS MOSCHEUTOS) USING 1 GALLON CONTAINERS, 24 INCHES ON CENTER. APPROXIMATELY 225 SF.



MATCH LINE - STA. 17+50 THIS SHEET

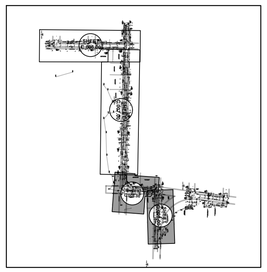
Hickory Road Plan (DS-13) (17+50-21+31)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.



Hickory Road Key Map (DS-13)

SCALE: 1"=300'

GRAPHIC SCALE

300 0 150 300

(IN FEET)
1 inch = 300 ft.

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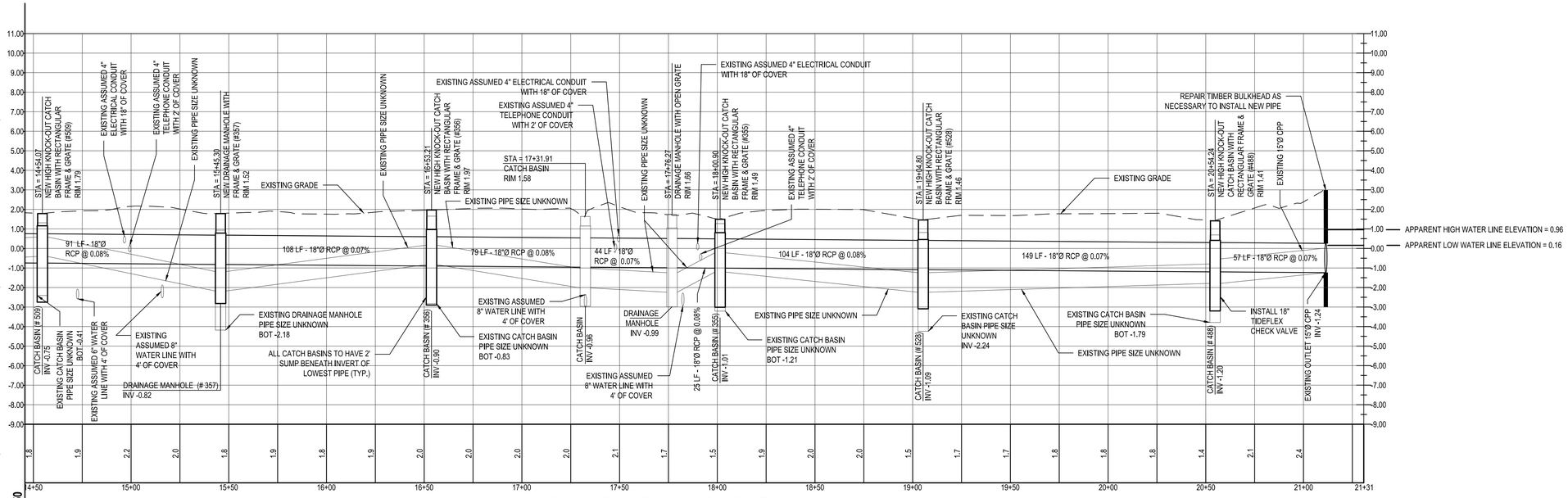

MATCH LINE - STA. 14+50 SEE SHEET C-007

Hickory Road Drainage Profile (DS-13) (14+50-21+31)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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Project Key

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Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
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Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
HICKORY ROAD (DS-13) PLAN AND PROFILE
STA 14+50 TO STA 21+31

H2M Job # DASN 1804 — Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-008.00

Drawing 9 of 13

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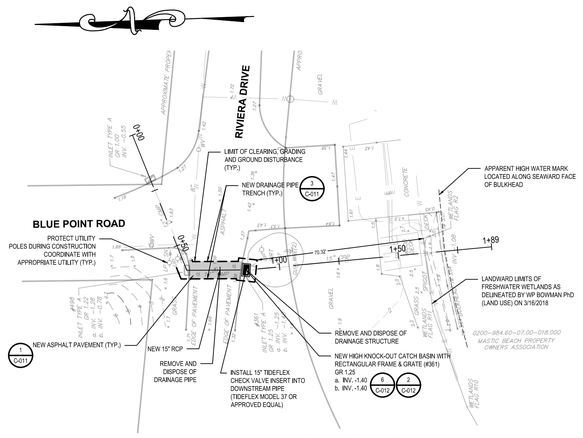
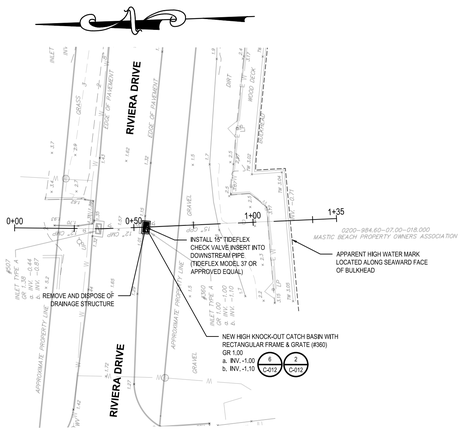


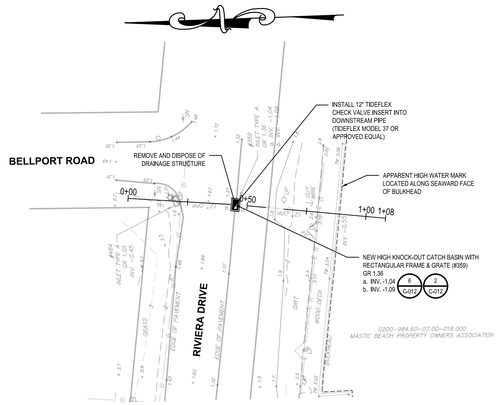
Blue Point Road 1 Plan (DS-14)

SCALE: 1"=30'



Blue Point Road 2 Plan (DS-14)

SCALE: 1"=30'



Bellport Road Plan (DS-14)

SCALE: 1"=30'

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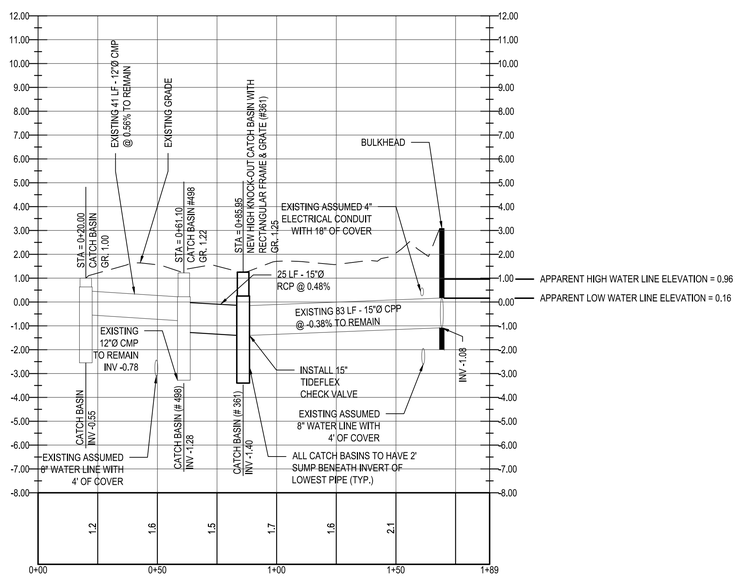
GRAPHIC SCALE

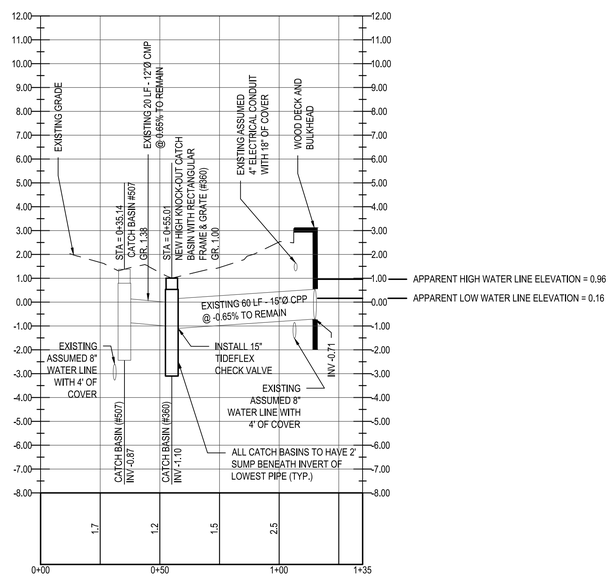
30 0 15 30

(IN FEET)
1 inch = 30 ft.



Blue Point Road 1 Drainage Profile (DS-14) (0+00-1+89)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)



Blue Point Road 2 Drainage Profile (DS-14) (0+00-1+35)

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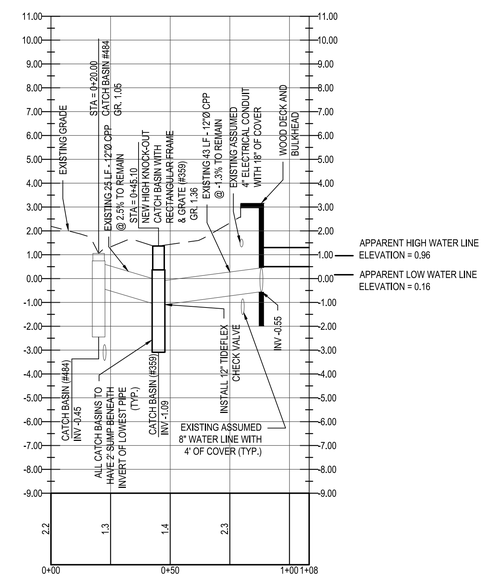
SCALE: 1"=3' (VERTICAL)



Bellport Road Drainage Profile (DS-14) (0+00-1+08)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No. 0146001

Tel: 732-499-2999
Fax: 973-240-1918

Project Key

REVISIONS

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1	60% SUBMISSION	09/07/18
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6		
7		
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Client

TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title

MASTIC BEACH
DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title

BLUE POINT ROAD & BELLPORT ROAD (DS-14) PLAN AND PROFILE

H2M Job # DASN 1804 *Scale* 1" = 30'

Phase

60% SUBMISSION

Drawn By: SWF *Checked By:* DVR *Date:* 07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number

C-009.00

Drawing 10 *of* 13

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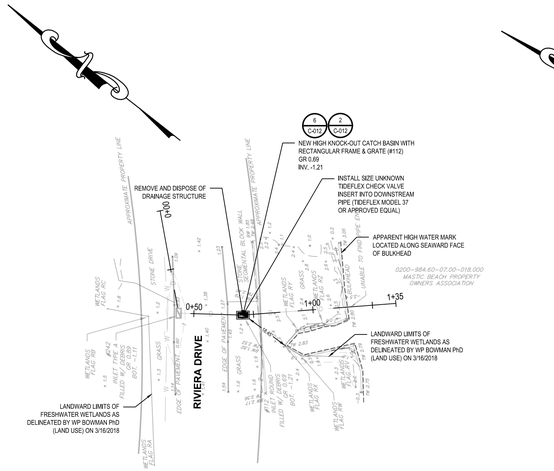
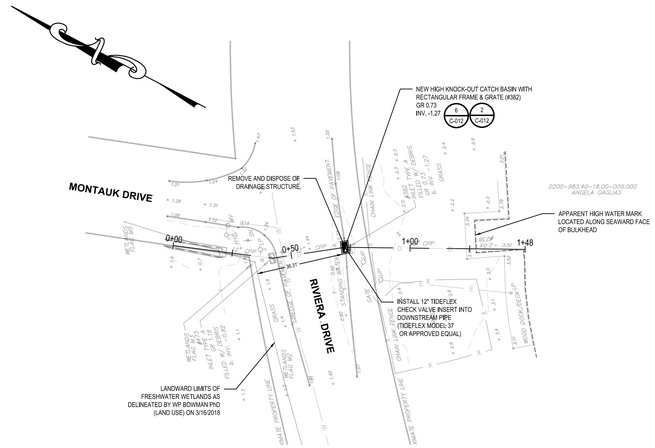


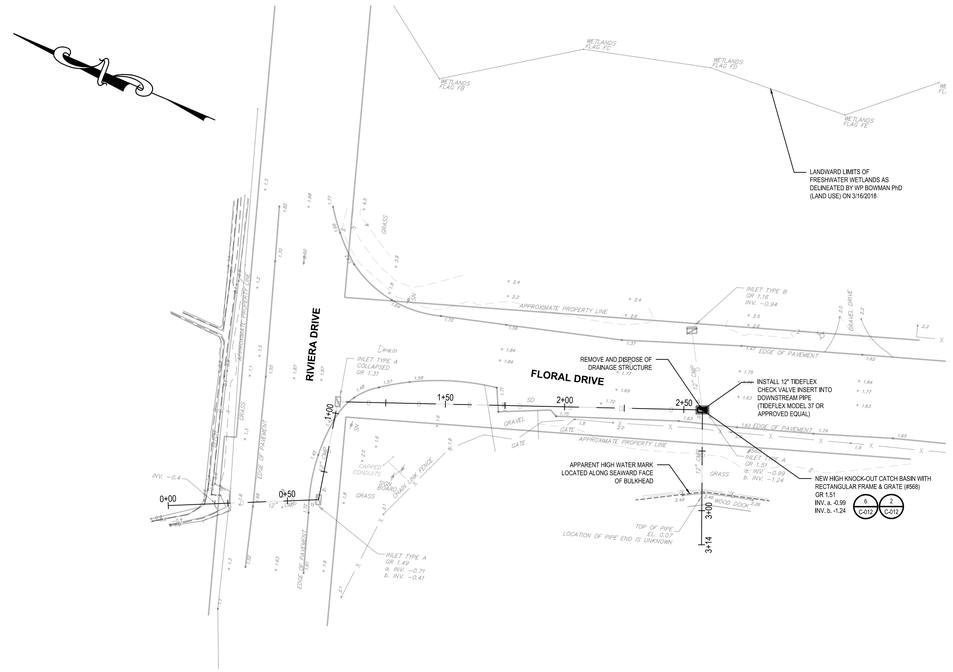
Riviera Drive Plan (DS-15)

SCALE: 1"=30'



Montauk Drive Plan (DS-16)

SCALE: 1"=30'



Floral Drive Plan (DS-17)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

New York 811

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- Wait The Required Time
- Confirm Utility Response
- Respect The Marks
- Dig With Care

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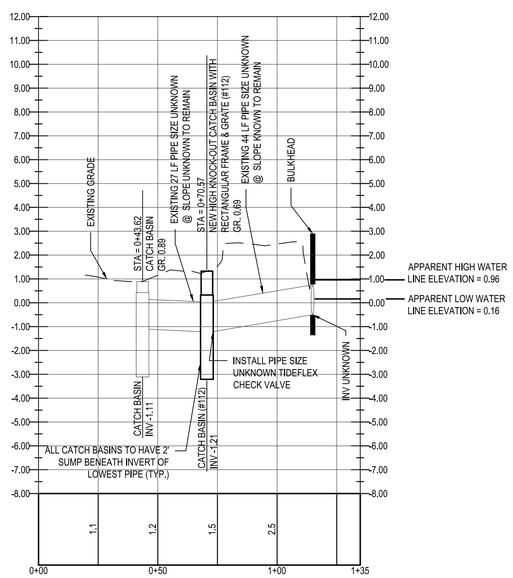
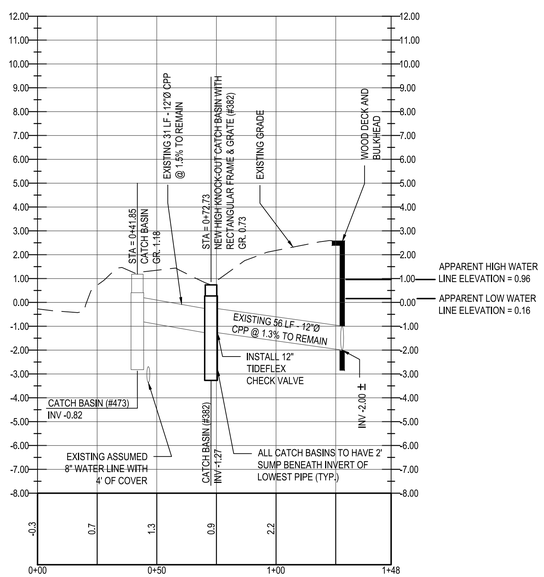


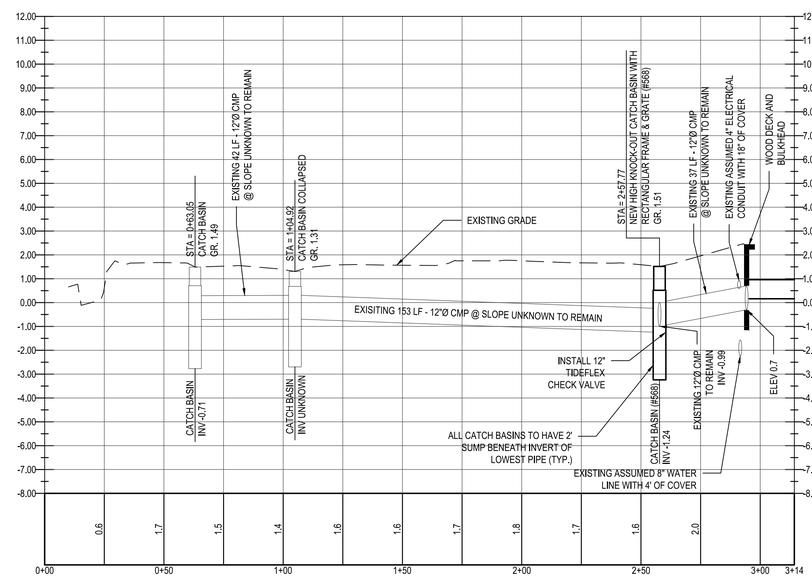
Riviera Drive Drainage Profile (DS-15) (0+00-1+35)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)



Montauk Drive Drainage Profile (DS-16) (0+00-1+48)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)



Floral Drive Drainage Profile (DS-17) (0+00-3+14)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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One Penn Plaza, 52 Floor, NY, NY 10119-0098
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Consultants:

H2M architects + engineers
538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com

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Engineering Program
Matrix New World Engineering, Land Surveying
Joint Venture of Matrix PMG, LLC
443 State Route 33, Second Floor — Tel: 732-699-2999
Estontown, New Jersey 07724 — Fax: 973-240-1918
HWB / DBE / SBE — www.matrixnewworld.com
STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No. 21456001

Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
3		
4		
5		
6		
7		
8		
9		

Client

TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title

MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title

RIVIERA DRIVE, MONTAUK DRIVE AND FLORAL DRIVE (DS-15 -17) PLAN AND PROFILE

H2M Job # DASN 1804 — Scale 1" = 30'

Phase

60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

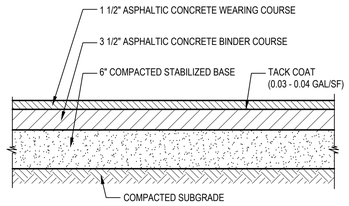
Seal & Signature

DASNY Project No: 3264609999

Drawing Number C-010.00

Drawing 11 of 13

F:\2017\17-967 DASNY Mastic Beach Drainage\Dwg\Plot Sheets\SC03.0 Plan and Profile.dwg Last Modified: Sep 07, 2018 - 1:35pm Plotted on: Sep 07, 2018 - 1:38pm By: tjdson



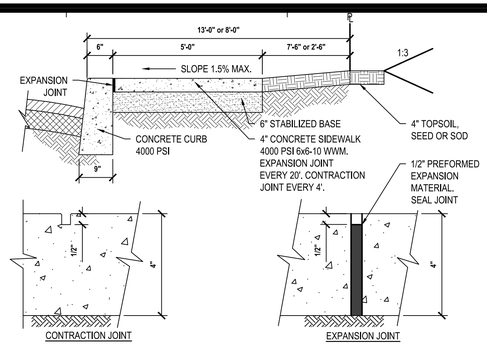
NOTE:

COMPACT SUBGRADE AND STABILIZED BASE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

(TOWN OF BROOKHAVEN)

1 Asphalt Pavement - Standard Section

NTS (321216.13 BRKN1) - U



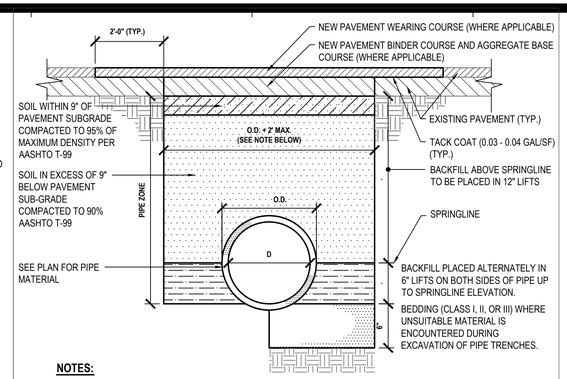
NOTES:

1. CONCRETE SIDEWALK SHALL BE A MONOLITHIC POUR AND HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. WHERE SIDEWALKS CROSS DRIVEWAYS OR FOR CURB CUTS, THE CONCRETE SHALL BE SIX (6") IN DEPTH WITH WIRE, 6"x6"-10 WWM.
3. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
4. APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.

(TOWN OF BROOKHAVEN)

2 Concrete Sidewalk - Standard Option 2

NTS (321313.33 BRKN2)

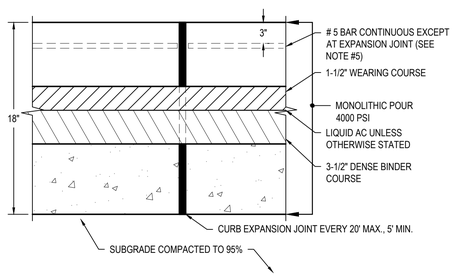


NOTES:

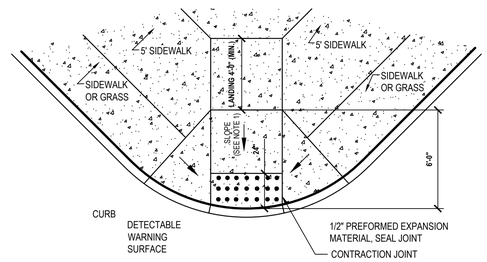
1. CLASS I, II, OR III COMPACTED BACKFILL MATERIAL REQUIRED IN ALL PIPE ZONES, PER USCS (UNIFIED SOIL CLASSIFICATIONS SYSTEM).
2. IF DEPTH OF TRENCH EXCEEDS 5', THE CONTRACTOR MUST PROVIDE SHEETING AND BRACING OR A SHEETING BOX IN ACCORDANCE WITH OSHA REGULATIONS. AS AN ALTERNATIVE, IF PERMITTED BY THE ENGINEER, THE TRENCH WALLS MAY BE CUT BACK TO A 1:1 SLOPE OR THE NATURAL ANGLE OF REPOSE FOR THE SOIL, WHICHEVER IS GREATER.
3. WHERE PIPE IS INSTALLED WITH LESS THAN 3' OF COVER WITHIN PAVEMENT AREAS, ALL BACKFILL MATERIAL THROUGHOUT THE PIPE ZONE IS TO BE CLASS I MATERIAL.
4. TESTING REQUIRED PER DISCRETION OF ENGINEER OR INSPECTOR.

6 Drainage Pipe Trench

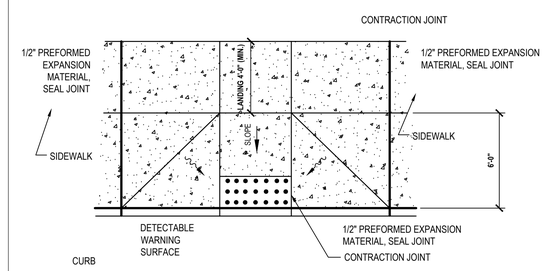
SCALE:NTS



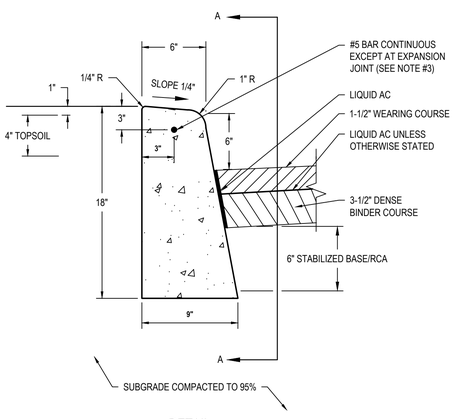
SECTION A-A



PLAN



PLAN



DETAIL

WHEN ROADWAY IS BETWEEN 0-6% SLOPE

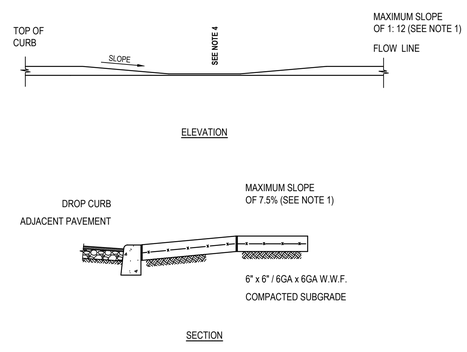
NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. (TEST CYLINDERS STRENGTH MAY BE REQUIRED, AS REQUESTED BY INSPECTOR OR TOWN ENGINEER)
2. CONCRETE SHALL BE A MONOLITHIC POUR, MUST USE FORMS FRONT AND REAR.
3. CONCRETE TO CURE 14 DAYS MIN. BEFORE ROADWAY PAVING CAN BEGIN.
4. EXPANSION JOINTS TO BE 5' MIN., 20' MAX..
5. REBAR IS OPTIONAL, EXCEPT IS REQUIRED IN INDUSTRIAL & COMMERCIAL ROADWAYS.
6. WOOD FLOAT AND BRUSH FINISH ON ALL SURFACES ABOVE GRADE.
7. AT ALL CURB ENDINGS, PROVIDE SMOOTH TRANSITION DOWN TO PAVED SURFACE.

(TOWN OF BROOKHAVEN)

4 Concrete Curb - Type A-1

NTS (321613.16 BRKN1) - U

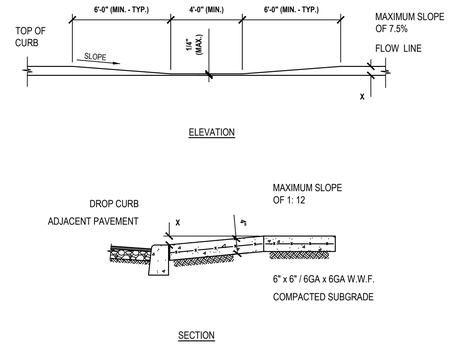


NOTES:

1. DIMENSIONS SHOWN ARE APPLICABLE FOR INSTALLATION WITH 6" CURB REVEAL. DIMENSIONS OF FLARE AND RAMP LENGTH FOR INSTALLATION WITH ALTERNATE CURB REVEALS MAY BE MODIFIED TO MAINTAIN A RAMP SLOPE NOT TO EXCEED 7.5%.
2. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP EXCLUSIVE OF SIDE FLARES.
3. MAXIMUM SLOPE OF LANDING IS 1.5% IN ANY DIRECTION.
4. RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAX)
5. CONCRETE TO ACHIEVE 4,000 P.S.I. STRENGTH AT 28 DAYS.
6. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
7. APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF SLOPE.
8. REFER TO CONCRETE SIDEWALK DETAIL FOR INFORMATION REGARDING CONTRACTION AND EXPANSION JOINTS.

5 Concrete Handicap Ramp - Corner - Flare

NTS (321313.36 H2MX1) - M



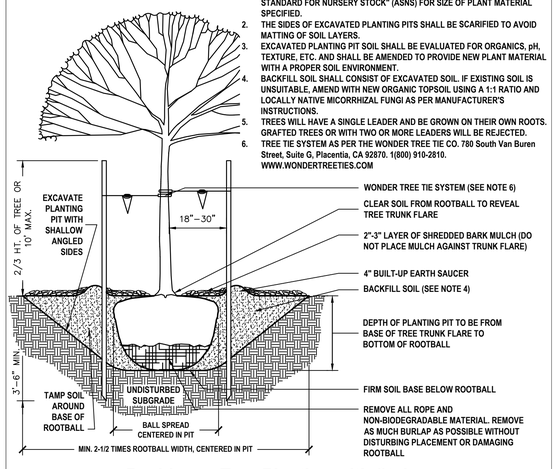
NOTES:

1. DIMENSIONS SHOWN ARE APPLICABLE FOR INSTALLATION WITH 6" CURB REVEAL. DIMENSIONS OF FLARE AND RAMP LENGTH FOR INSTALLATION WITH ALTERNATE CURB REVEALS MAY BE MODIFIED TO MAINTAIN A RAMP SLOPE NOT TO EXCEED 7.5%.
2. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP EXCLUSIVE OF SIDE FLARES.
3. MAXIMUM SLOPE OF LANDING IS 1.5% IN ANY DIRECTION.
4. RAMP TRANSITIONS BETWEEN WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAX.)
5. CONCRETE TO ACHIEVE 4,000 P.S.I. STRENGTH AT 28 DAYS.
6. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
7. APPLY BRUSH FINISH PERPENDICULAR TO DIRECTION OF SLOPE.
8. REFER TO CONCRETE SIDEWALK DETAIL FOR INFORMATION REGARDING CONTRACTION AND EXPANSION JOINTS.

6 Concrete Handicap Ramp - Mid Block - Flare

NTS (321313.36 H2MX2) - M

1. ROOTBALL SHALL CONFORM TO THE CURRENT EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ASNS) FOR SIZE OF PLANT MATERIAL SPECIFIED.
2. THE SIDES OF EXCAVATED PLANTING PITS SHALL BE SCARIFIED TO AVOID MATTING OF SOIL LAYERS.
3. EXCAVATED PLANTING PIT SOIL SHALL BE EVALUATED FOR ORGANICS, pH, TEXTURE, ETC. AND SHALL BE AMENDED TO PROVIDE NEW PLANT MATERIAL WITH A PROPER SOIL ENVIRONMENT.
4. BACKFILL SOIL SHALL CONSIST OF EXCAVATED SOIL. IF EXISTING SOIL IS UNSUITABLE, AMEND WITH NEW ORGANIC TOPSOIL USING A 1:1 RATIO AND LOCALLY NATIVE MICORRHIZAL FUNGI AS PER MANUFACTURER'S INSTRUCTIONS.
5. TREES WILL HAVE A SINGLE LEADER AND BE GROWN ON THEIR OWN ROOTS. GRAFTED TREES OR WITH TWO OR MORE LEADERS WILL BE REJECTED.
6. TREE TIE SYSTEM AS PER THE WONDER TREE TIE CO. 780 South Van Buren Street, Suite G, Placentia, CA 92870. 1(800) 910-2810. WWW.WONDERTREETIES.COM



7 Deciduous Tree Planting with Stakes

NTS (329343.00 H2M X2)

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Consultants:

H2M architects + engineers
538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.6000 • www.h2m.com

Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/2018
2		
3		
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9		

Client

TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title

MASTIC BEACH
DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title

DETAILS

H2M Job # DASN 1804 Scale

Phase

30% SUBMISSION

Drawn By: DS | Checked By: SPC | Date: 07/10/2018

Seal & Signature

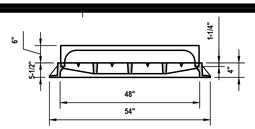
DASNY Project No: 3264609999

Drawing Number

C-011.00

Drawing 12 *of* 13

C:\Users\scallahan\appdata\local\temp\AcPublish_20040\SC-011.00 Details.dwg Last Modified: Sep 07, 2018 - 7:33am Plotted on: Sep 07, 2018 - 7:38am By scallahan



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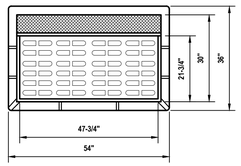
CAMPBELL FOUNDRY 2617



PLAN

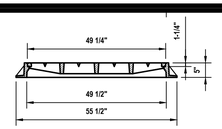
NOTES:

1. MATERIALS: CONFORMS TO ASTM A48 CLASS 30B OR 35B SPECIFICATIONS LOAD RATING: FOR AASHTO & HS20. CAMPBELL FOUNDRY OR APPROVED EQUAL.
2. CASTINGS MUST MATCH PRECAST OPENING.
3. 2 INCHES OF CASTING MUST REST ON CONCRETE PRECAST.

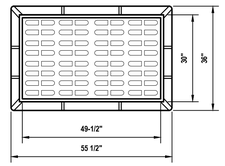
(TOWN OF BROOKHAVEN)

1 Combination Inlet Frame and Grate - Heavy Duty

SCALE:NTS (334913.23 BRKN3-U)



SECTION
CAMPBELL FOUNDRY 3408



PLAN

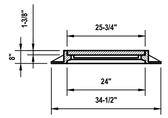
NOTES:

1. MATERIALS: CONFORMS TO ASTM A48 CLASS 30B OR 35B SPECIFICATIONS LOAD RATING: FOR AASHTO & HS20. CAMPBELL FOUNDRY OR APPROVED EQUAL.
2. CASTINGS MUST MATCH PRECAST OPENING.
3. 2 INCHES OF CASTING MUST REST ON CONCRETE PRECAST.

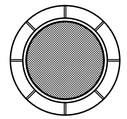
(TOWN OF BROOKHAVEN)

2 Rectangular Frame and Grate - Heavy Duty

SCALE:NTS (334913.23 BRKN1-U)



SECTION
CAMPBELL FOUNDRY 1009



PLAN

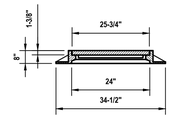
NOTES:

1. MATERIALS: CONFORMS TO ASTM A48 CLASS 30B OR 35B SPECIFICATIONS LOAD RATING: FOR AASHTO & HS20. CAMPBELL FOUNDRY OR APPROVED EQUAL.
2. CASTINGS MUST MATCH PRECAST OPENING.
3. 2 INCHES OF CASTING MUST REST ON CONCRETE PRECAST.

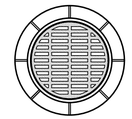
(TOWN OF BROOKHAVEN)

3 Circular Frame and Cover

SCALE:NTS (334913.23 BRKN4-U)



SECTION
CAMPBELL FOUNDRY 1184



PLAN

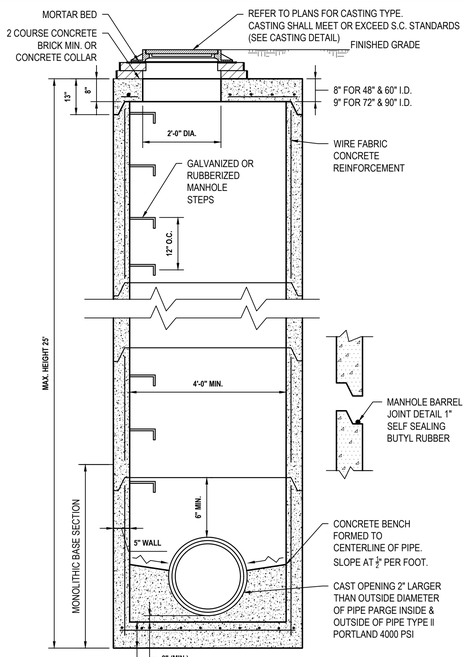
NOTES:

1. MATERIALS: CONFORMS TO ASTM A48 CLASS 30B OR 35B SPECIFICATIONS LOAD RATING: FOR AASHTO & HS20. CAMPBELL FOUNDRY OR APPROVED EQUAL.
2. CASTINGS MUST MATCH PRECAST OPENING.
3. 2 INCHES OF CASTING MUST REST ON CONCRETE PRECAST.

(TOWN OF BROOKHAVEN)

4 Circular Frame and Grate

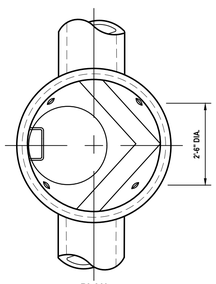
SCALE:NTS (334913.23 BRKN5-U)



SECTION

NOTES:

1. MANHOLE TO SUPPORT AASHTO HS-20 TRAFFIC LOADING.
2. CONCRETE 4000 PSI @28 DAYS.
3. WELDED WIRE MESH ASTM A185.
4. REBAR ASTM A615 GRADE 60.
5. JOINT SEALANT TO BE 1" BUTYL RUBBER MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION SS-S-210A AND AASHTO M-198.
6. ALL PRECAST CONCRETE STRUCTURES MUST MEET ACI CODE AND SPECIFICATIONS.
7. ALL STRUCTURES MUST BE MANUFACTURED AT AN ACI CERTIFIED PLANT, A COPY OF CERTIFICATION MUST BE ON FILE WITH THE TOWN.
8. MANHOLE CONSTRUCTION TO CONFORM TO ASTM C913.

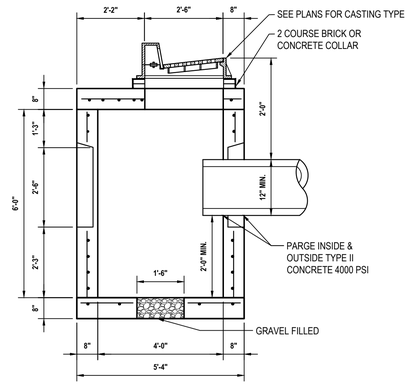


PLAN

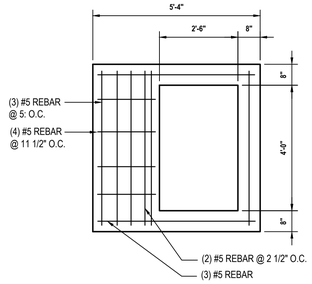
(TOWN OF BROOKHAVEN)

5 Storm Drainage Manhole

SCALE:NTS (334913.13 BRKN1-U)



SECTION



PLAN - TOP SLAB - HS-20 LOADING

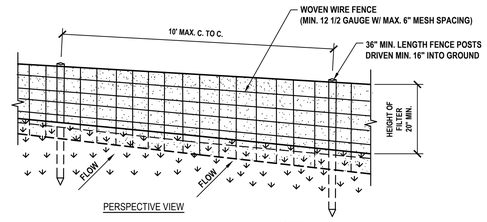
NOTES:

1. TOP SLAB TO SUPPORT AASHTO HS-20 TRAFFIC LOADING
2. CONCRETE STRENGHT TO BE 4000 PSI @ 28 DAYS
3. WELDED WIRE MESH ASTM A185
4. REBAR ASTM A615 GRADE 60
5. ALL PRECAST CONCRETE STRUCTURES MUST MEET ACI CODE AND SPECIFICATIONS
6. ALL STRUCTURES MUST BE MANUFACTURED AT AN ACI CERTIFIED PLANT, A COPY OF CERTIFICATION MUST BE ON FILE WITH THE TOWN

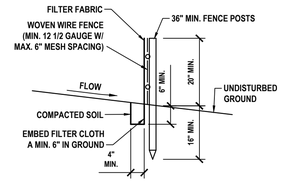
(TOWN OF BROOKHAVEN)

6 High Knock-Out Catch Basin

SCALE:NTS (334413.13 BRKN1-U)



PERSPECTIVE VIEW



SECTION VIEW

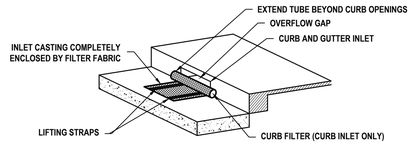
NOTES:

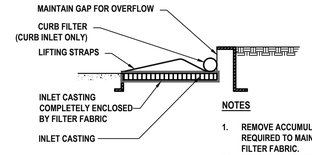
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE 2" X 2" HARDWOOD OR APPROVED EQUIVALENT.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. REMOVE SILT FENCE UPON PERMANENT STABILIZATION OF UPLAND AREAS.

7 Silt Fence - Heavy Duty

NTS (312513.13NYDC2) - U

FILTER FABRIC PROPERTIES			
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	lbs	365 x 200
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	lbs	90
Mullen Burst Strength	ASTM D 3786	psi	450
Trapezoid Tear Strength	ASTM D 4533	lbs	115 x 75
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	US Std Sieve)	40
Flow Rate	ASTM D 4491	gal/min/ft²	145
Permittivity	ASTM D 4491	Sec⁻¹	2.1





NOTES

1. REMOVE ACCUMULATED SEDIMENT AND DEBRIS AS REQUIRED TO MAINTAIN ADEQUATE FLOW THROUGH FILTER FABRIC.
2. REMOVE INLET PROTECTION UPON PERMANENT STABILIZATION OF CONSTRUCTION SITE.

8 Rectangular Inlet Sediment Bag Protection

NTS (312553.13 H2MX1) - U

FILTER FABRIC PROPERTIES			
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	lbs	365 x 200
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	lbs	90
Mullen Burst Strength	ASTM D 3786	psi	450
Trapezoid Tear Strength	ASTM D 4533	lbs	115 x 75
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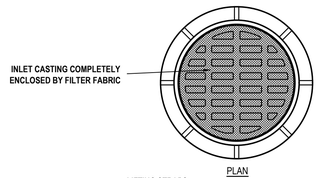
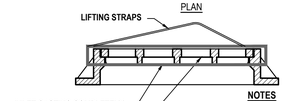


PLAN



NOTES

1. REMOVE ACCUMULATED SEDIMENT AND DEBRIS AS REQUIRED TO MAINTAIN ADEQUATE FLOW THROUGH FILTER FABRIC.
2. REMOVE INLET PROTECTION UPON PERMANENT STABILIZATION OF CONSTRUCTION SITE.

9 Circular Inlet Sediment Bag Protection

NTS (312553.13 H2MX2)

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Melville, NY 11747
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Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/2018
2		
3		
4		
5		
6		
7		
8		
9		

Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
DETAILS

H2M Job # DASN 1804 Scale
Phase
30% SUBMISSION

Drawn By:	Checked By:	Date:
DS	SPC	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

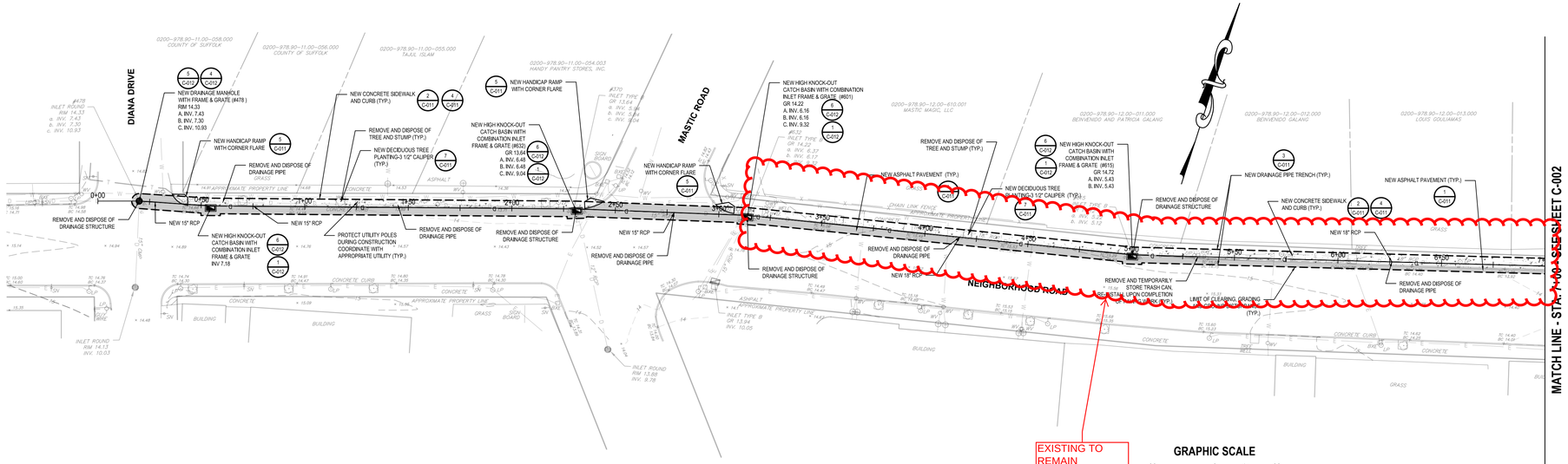
Drawing Number
C-012.00

Drawing 13 of 13

X:\DASN\Dormitory Authority\ - 1026\9\DASN1804-GOSR Mastic Beach\02-BIM-CADD\Cad-docs\civil\SC-012.00 Details.dwg Last Modified: Sep 07, 2018 - 4:37pm Plotted on: Sep 07, 2018 - 4:37pm By: kcallahan

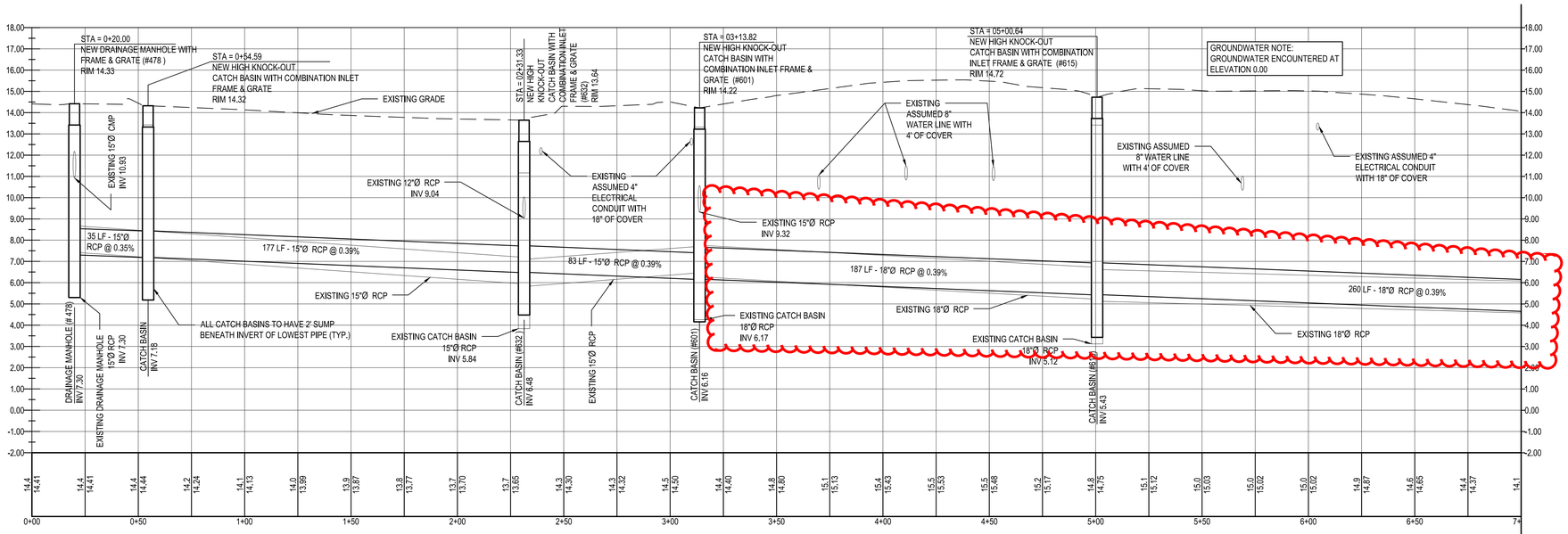
Alternate Design Plans

(May potentially replace Design Plan sheets C-001.00 and C-002.00)



Neighborhood Road Plan (DS-24)

SCALE: 1"=30'



Neighborhood Road Drainage Profile (DS-24) (Sta. 0.00 to 7+00)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

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- Wait The Required Time
- Confirm Utility Response
- Respect The Marks
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James McCormick, P.E., P.L.S.
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Eatontown, New Jersey 07724 — Fax: 973-240-1918
www.matrix-nw.com — info@matrix-nw.com
STATE OF NEW YORK CERTIFICATE OF AUTHORIZATION No. 0149001

Project Key

REVISIONS

Rev No	Description	Date:
1	60% SUBMISSION	09/07/18
2		
3		
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5		
6		
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9		

Client
TOWN OF BROOKHAVEN
1 INDEPENDENCE HILL
FARMINGVILLE, NY 11738

Project Title
MASTIC BEACH DRAINAGE IMPROVEMENTS
MASTIC BEACH
TOWN OF BROOKHAVEN, NY

Drawing Title
NEIGHBORHOOD ROAD (DS-24) PLAN AND PROFILE STA 0+00 TO STA. 7+00

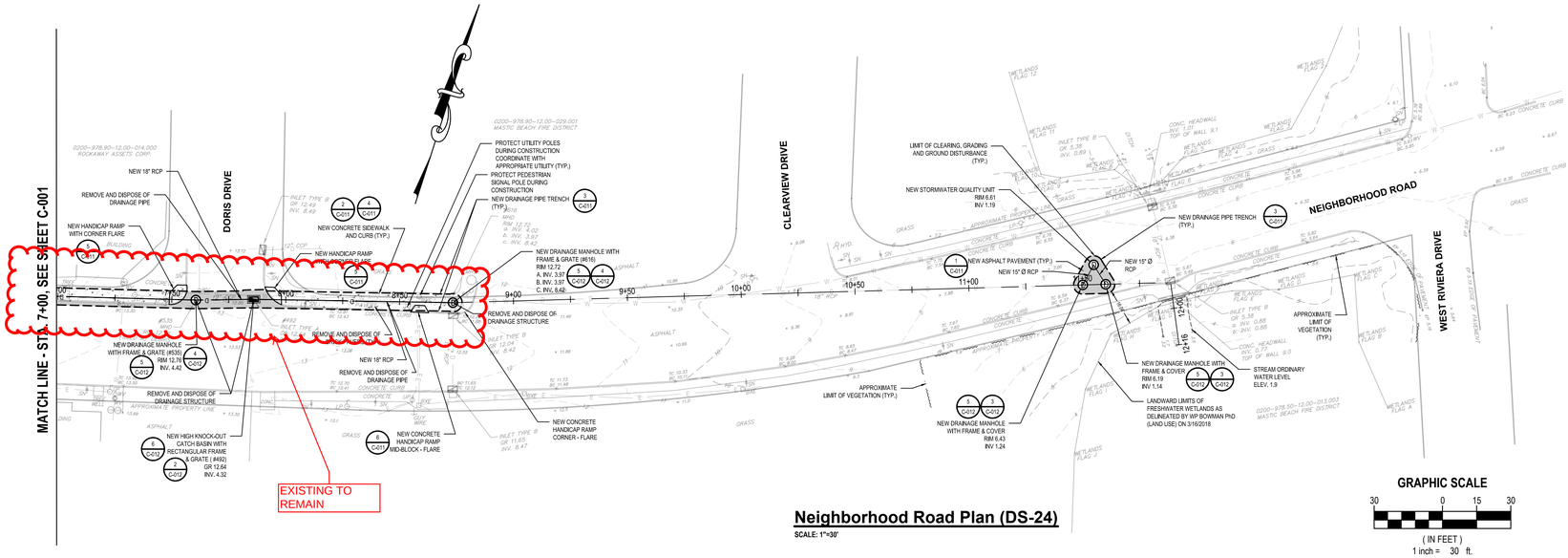
H2M Job # DASN 1804 — Scale 1" = 30'
Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999
Drawing Number C-001.00
Drawing 2 of 13

F:\2017\17-967 DASNY Mastic Beach Drainage\Dwg\Plot Sheets\C003.0 Plan and Profile.dwg Last Modified: Sep 07, 2018 - 1:35pm Plotted on: Sep 07, 2018 - 1:36pm By: tgibson



Neighborhood Road Plan (DS-24)

SCALE: 1"=30'

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

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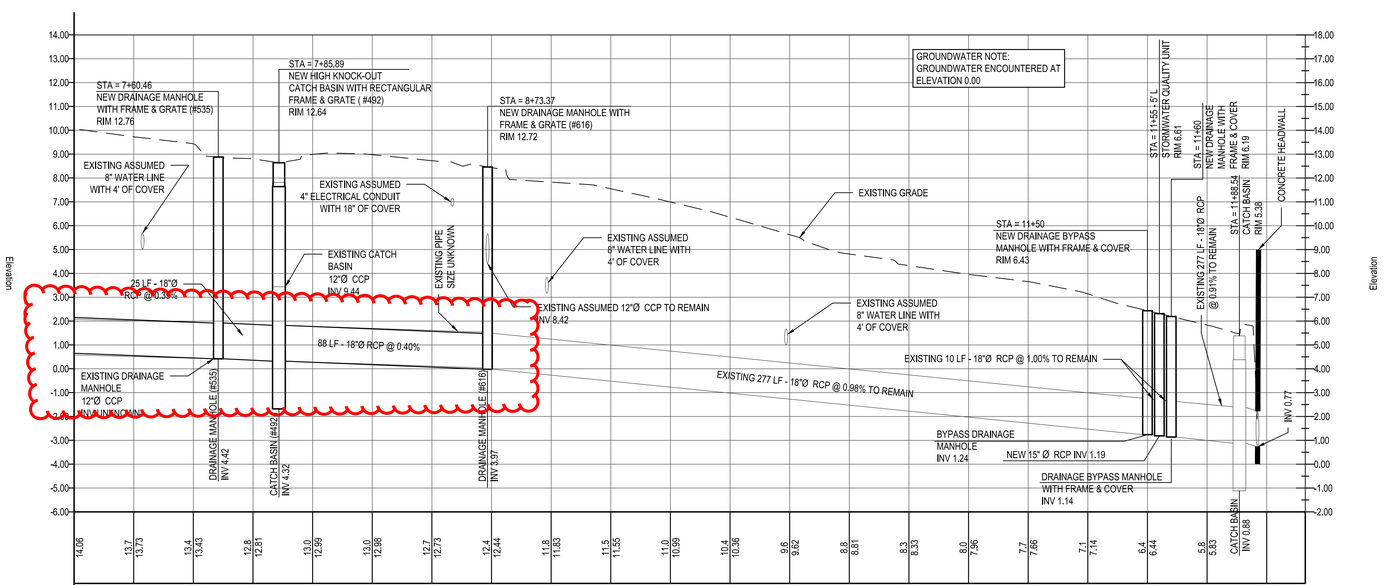

Neighborhood Road Drainage Profile (DS-24) (Sta. 7+00 to 12+16)

SCALE: 1"=30' (HORIZONTAL)
SCALE: 1"=3' (VERTICAL)

MATCH LINE - STA. 7+00
SEE SHEET C-001

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H2M Job # DASN 1804 Scale 1" = 30'

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
SWF	DVR	07/10/2018

Seal & Signature

DASNY Project No: 3264609999

Drawing Number
C-002.00

Drawing 3 of 13

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