



Roberts
ENGINEERING GROUP LLC
Women Business Enterprise Certified

1670 Whitehorse-Hamilton Square Rd.
Hamilton, New Jersey 08690
609-586-1141 fax 609-586-1143
www.RobertsEngineeringGroup.com

May 5, 2022

Mayor and Council
Borough of Hightstown
156 Bank Street
Hightstown, New Jersey 08520

Planning Board
Borough of Hightstown
156 Bank Street
Hightstown, New Jersey 08520

Environmental Commission
Borough of Hightstown
156 Bank Street
Hightstown, New Jersey 08520

Complete Streets Committee
Borough of Hightstown
156 Bank Street
Hightstown, New Jersey 08520

Re: Improvements to Hausser Avenue, Bennett Place, and Prospect Drive
Borough of Hightstown, Mercer County, New Jersey
Our File No.: H1802

Dear Mayor, Council, Planning Board and Environmental Commission:

Enclosed with this letter, please find the following:

1. Five (5) partial sets of plans entitled, "Improvements to Hausser Avenue, Bennett Place, and Prospect Drive, Borough of Hightstown, Mercer County, New Jersey, dated April 13, 2022". These sets show the proposed improvements for Hausser Avenue, Bennett Place, and Prospect Drive. The set consists of sheets 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13 of 15.

The enclosed plans are to be distributed to the Council, Planning Board, Environmental Commission, and Complete Streets Committee.

As you know, the Borough has received a grant from the NJDOT in the amount of \$290,000.00 in November 2020. This office is in the process of preparing formal bid plans and specifications for advertisement and award prior to the grant deadline of November 16, 2022.

The enclosed plans show the proposed improvements as follows:

1. Replace the existing water main and transfer water services on Hausser and Bennett.
2. Replace existing fire hydrants.
3. Replace inlet frames, grates, and type 'N' eco curb pieces.
4. Remove and replace manhole frames and covers.
5. Mill and pave roadway.
6. Provide pavement repair as necessary.
7. Provide concrete sidewalks on one side of the road.
8. Provide ADA curb ramps and crosswalks at intersections.
9. Replace existing signage and pavement striping.
10. Replace existing orangeburg sanitary laterals.
11. Replace portions of the sanitary main.

Please note that we have not shown new tree plantings on the plan sheets. However, we will make accommodations in the bid documents to provide at least one new tree for every tree removed. We request that the Borough Shade Tree Commission provide a tree planting plan with proposed species and locations to this office for inclusion in the bid documents.

There appears to be one galvanized water service on private property at #118 Bennett Place. Therefore, replacement of the water service to the house is required under the new NJDEP guidelines for lead services.

Improvements to Hausser Avenue, Bennett Place,
and Prospect Drive
Borough of Hightstown, Mercer County, New Jersey
Our File No.: H1802
Page 2 of 2

We anticipate that the neighborhood can be closed to traffic by way of traffic barricades during construction. Uniform Traffic Directors would be needed for the work within the Morrison Avenue and Summit Street Rights-Of-Way.

The NJDOT grant being used to fund this work requires that the contract be awarded to a contractor no later than November 1, 2022. In order to meet this deadline, I request that your comments be provided no later than June 1, 2022.

If you would like to meet with us or ask questions directly, please feel free to contact me.

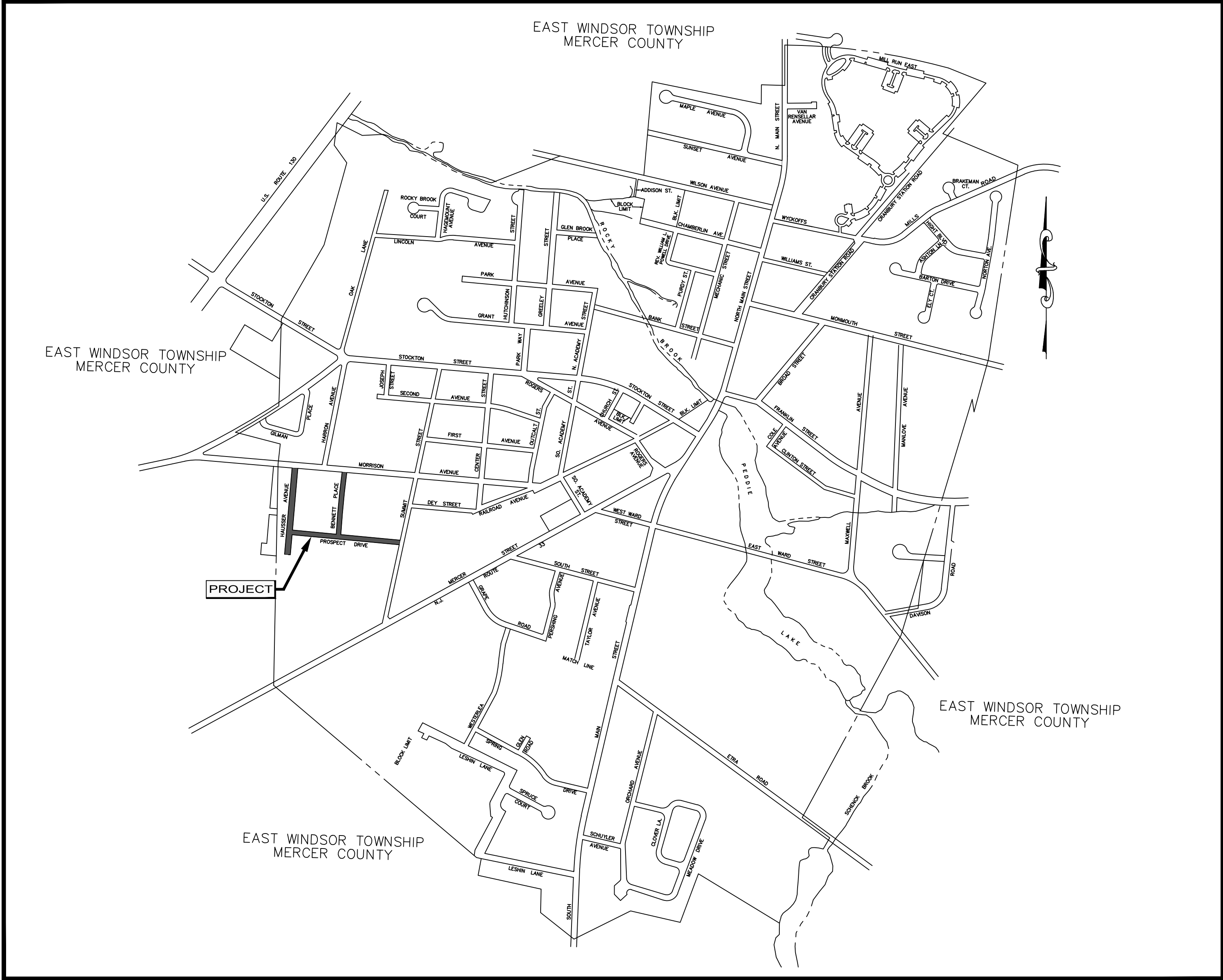
Very truly yours,



Carmela Roberts, P.E., C.M.E.
Borough Engineer

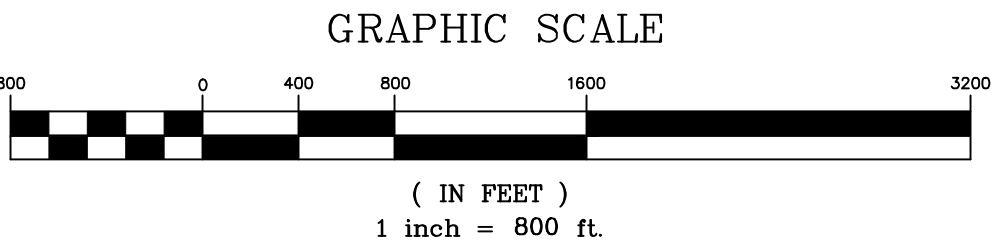
cc: Dimitri Musing, Borough Administrator
Peggy Riggio, RMC, CMR, Borough Clerk
Jane Davis, Borough Planning Board Secretary
Ken Lewis, Borough Superintendent of Public Works
Bill Searing, Borough Superintendent of AWWTP
Chief Frank Gendron, Borough Police Department
George Lang, Borough CFO
Cameron Corini, PE, CME, Roberts Engineering Group, LLC
Kelly Pham, EIT, Roberts Engineering Group, LLC

IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY



KEY MAP

SCALE 1"=800'



PROJECT LENGTH (HAUSSER AVENUE) = 750 LF
PROJECT LENGTH (BENNETT PLACE) = 550 LF
PROJECT LENGTH (PROSPECT DRIVE) = 950 LF

NOTE:
A. THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019, AS AMENDED BY SPECIAL PROVISIONS, TO GOVERN. THE NJDOT STANDARD CONSTRUCTION DETAILS FOR ROADWAY, TRAFFIC CONTROL, AND BRIDGE BOOKLET (2016); AND THE NJDOT STANDARD ELECTRICAL DETAILS BOOKLET (2007), ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

MAYOR
LAWRENCE D. QUATTRONE

MEMBERS OF COUNCIL
SUSAN BLUTH, COUNCIL PRESIDENT
STEVEN MISIURA
JOSHUA JACKSON
JOE CICALES
FRED MONTFERRAT
CRISTINA FOWLER

SHEET INDEX

- | | |
|------|---|
| 1 | COVER |
| 2-3 | TRAFFIC CONTROL PLAN |
| 4 | HAUSSER AVENUE STREET PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN |
| 5 | BENNETT PLACE PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN |
| 6 | PROSPECT DRIVE PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN |
| 7 | ADA GRADING PLAN |
| 8 | SIGNAGE AND STRIPING PLAN |
| 9-10 | CONSTRUCTION DETAILS |
| 11 | SOIL EROSION AND SEDIMENT CONTROL DETAILS |
| 12 | SOIL EROSION AND SEDIMENT CONTROL NOTES |

UTILITY SERVICE PROVIDERS

PSE&G	VERIZON
DENNIS GUNN	KEVIN HELLTHALER
300 CONNECTICUT DRIVE	1490 PROSPECT STREET, FLOOR 1
BURLINGTON, NJ 08016	TRENTON, NJ 08638
609-239-2405	609-637-4027

JERSEY CENTRAL POWER & LIGHT
GERALD M. RICCIARDI, AREA MANAGER
ONE RIVER CENTRE
331 NEWMAN SPRINGS ROAD, BLDG 3
RED BANK, NJ 07001
732-212-4106

BOROUGH OF HIGHTSTOWN WATER AND SEWER
KENNETH LEWIS, SUPERINTENDENT OF PUBLIC WORKS
BILL SEARING, SUPERINTENDENT OF ADVANCED WASTEWATER TREATMENT PLANT
148 NORTH MAIN STREET
HIGHTSTOWN, NJ 08520
609-490-5100

CALL BEFORE YOU DIG
IN NJ, TOLL FREE
1 - 800 - 272 - 1000

FOR FREE MARKOUTS TO LOCATE
UNDERGROUND UTILITIES

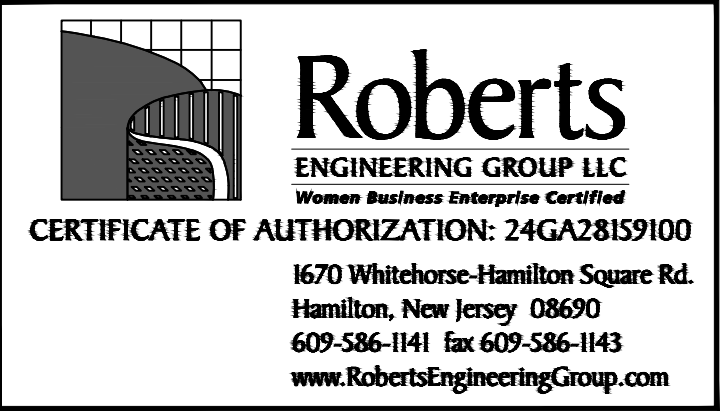
* IT'S THE LAW *

GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE, INC.



CARMELA ROBERTS, P.E.

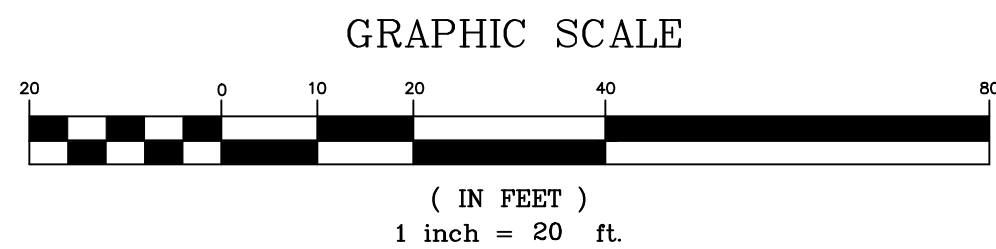
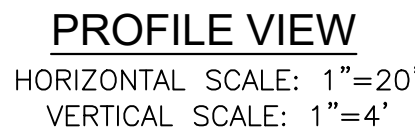
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. NO. 34419
IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION
SEAL OF THE PROFESSIONAL IT IS NOT AN ORIGINAL



No.	DATE	REVISIONS	BY	CHECKED

JOB NUMBER H1802

DATE: APRIL 13, 2021
SHEET 1 OF 15



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NO.	DATE	REVISIONS			CHECKED

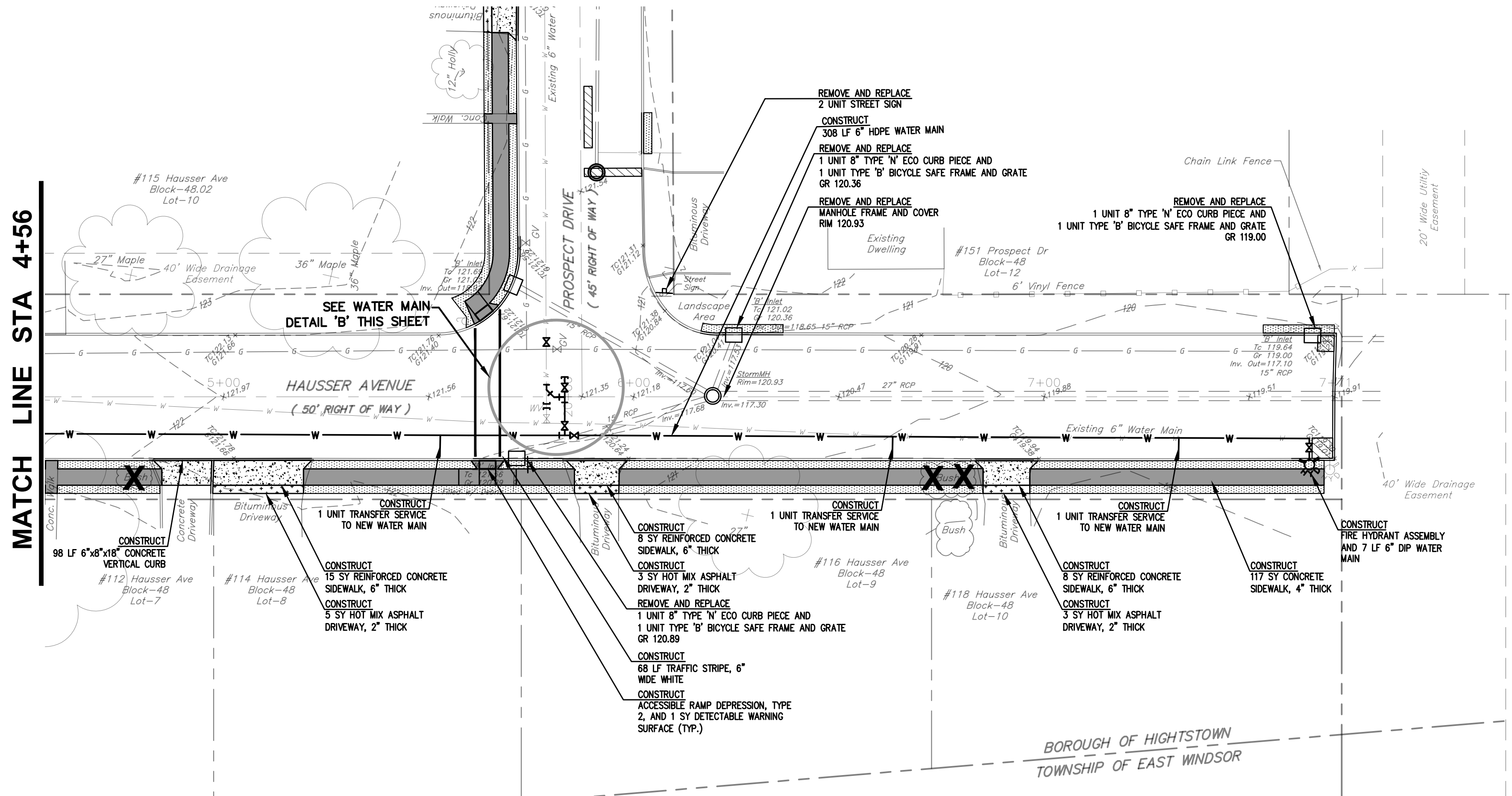
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 STATE OF NEW JERSEY LIC. No. 24GS03586800

HAUSSER AVENUE PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY

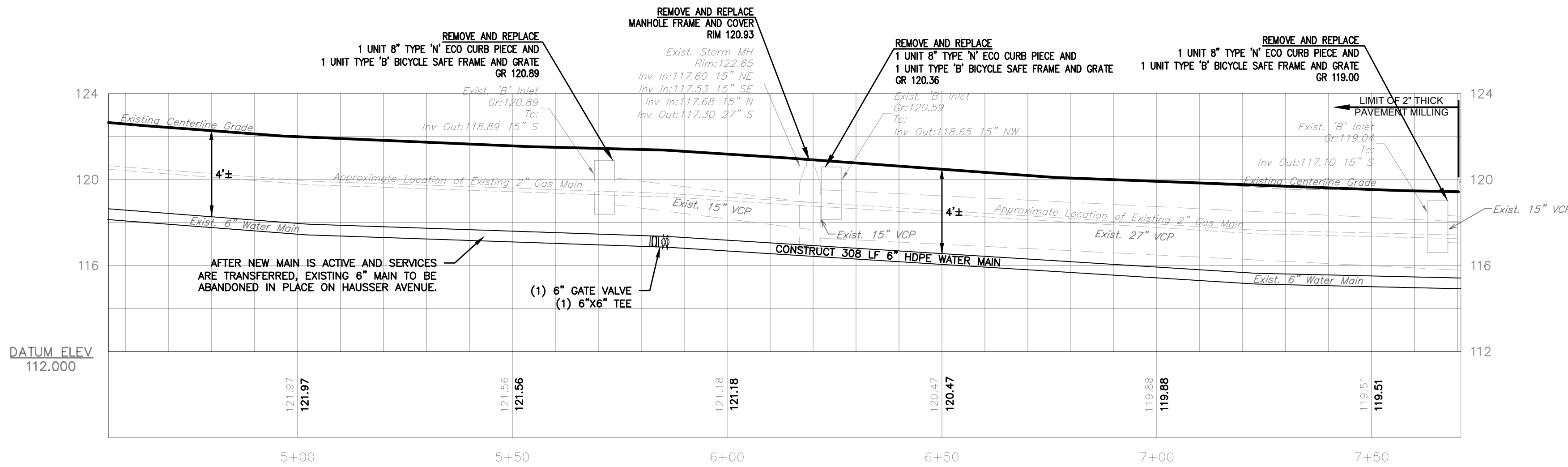
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DATE:	4/13/2022
SCALE:	1"=20'
DWG. No.:	PP1
SHEET No.	

MATCH LINE STA 4+56

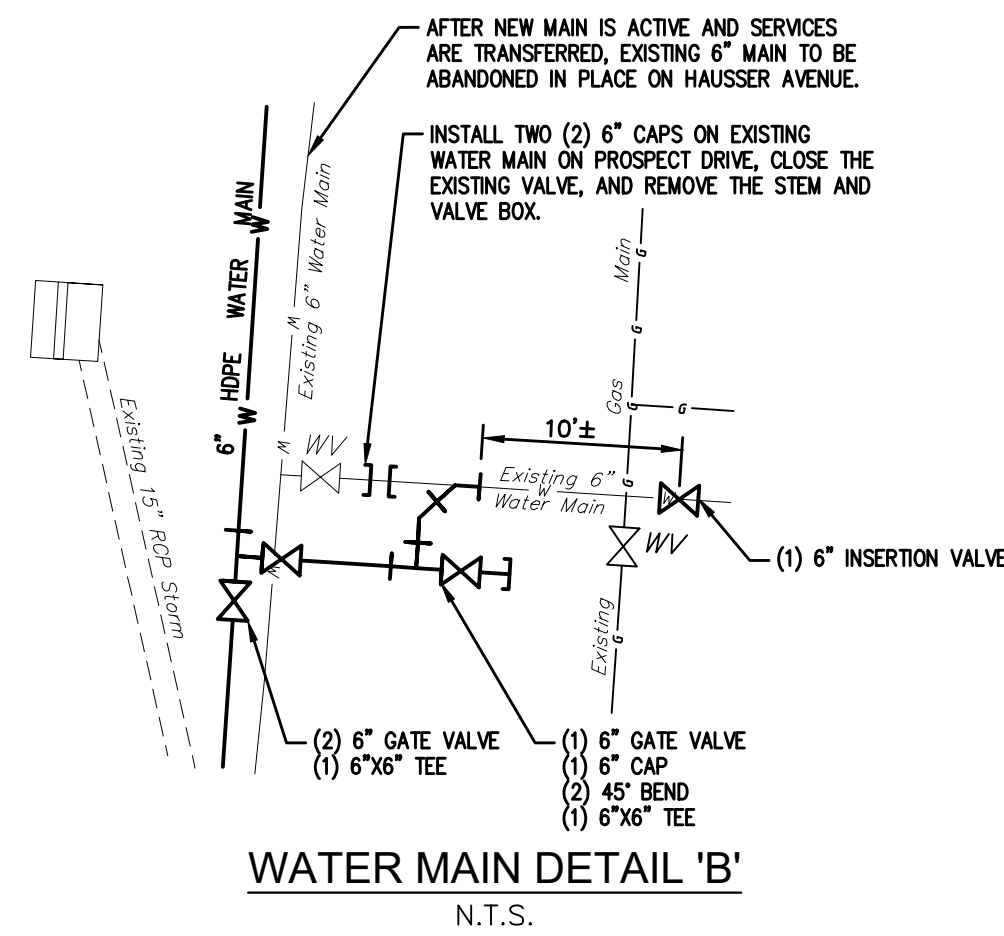


PLAN VIEW
SCALE: 1"=20'

CONSTRUCT (STA 4+56 TO STA 7+71):
1350 SY HMA MILLING, 3" OR LESS
180 TON HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK
30 TON HOT MIX ASPHALT 9.5M64 LEVELING COURSE, VARIABLE THICKNESS
140 GAL TACK COAT
7 SY HMA PAVEMENT REPAIR
200 SY FERTILIZING AND SEEDING, TYPE A-3
200 SY TOPSOIL SPREADING, 5" THICK



PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'



WATER MAIN DETAIL 'B'
N.T.S.

LEGEND

EXISTING

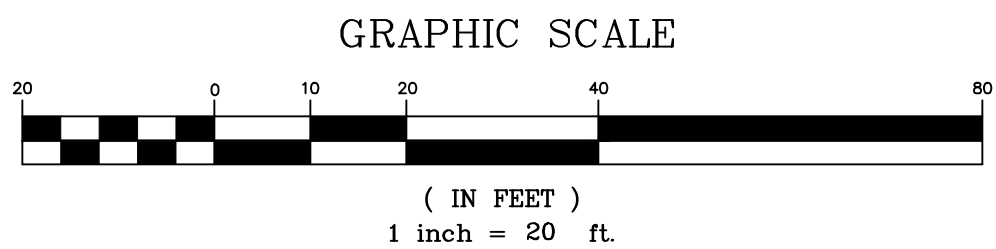
- EXISTING STREET ROW LINE
- EXISTING CONCRETE CURB
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING TREE
- EXISTING DRAINAGE PIPE
- EXISTING UTILITY POLE
- EXISTING PARKING LOT LIGHT
- EXISTING INLETS
- EXISTING WATER SERVICE
- EXISTING GAS SERVICE
- EXISTING OVERHEAD WIRES
- EXISTING FENCE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING STREET LIGHT

PROPOSED

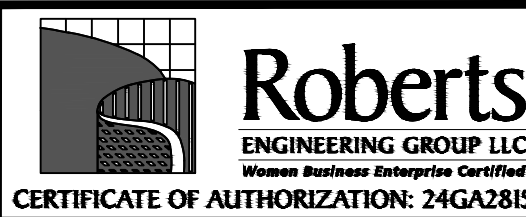
- SF --- PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED INLET FRAME, GRATE, OR CURB PIECE REPLACEMENT
- PROPOSED CONCRETE VERTICAL CURB
- PROPOSED CONCRETE SIDEWALK
- PROPOSED STONE DRIVEWAY REPAIR
- PROPOSED CONCRETE DRIVEWAY REPAIR
- PROPOSED BIT. DRIVEWAY REPAIR
- PROPOSED BASE REPAIR
- TOPSOILING, 5" THICK, FERTILIZING AND SEEDING, TYPE A-3
- PROPOSED BUSH OR TREE REMOVAL
- PROPOSED WATER SERVICE
- PROPOSED MANHOLE FRAME AND COVER

- GENERAL NOTES:**
- THIS PLAN REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF AERIAL PHOTOS, TAX MAPS, AND A FIELD SURVEY PERFORMED BY ROBERTS ENGINEERING GROUP, LLC, DATED SEPTEMBER 8, 2021.
 - RIGHT-OF-WAY AND PROPERTY LINE INFORMATION ARE APPROXIMATE AND ARE BASED UPON TAX MAP INFORMATION AND LIMITED FIELD SURVEYING.
 - THIS PLAN IS NOT INTENDED TO GUARANTEE OWNERSHIP. DOCUMENTS OF RECORD WHICH MAY HAVE BEEN REVIEWED AND CONSIDERED AS PART OF THIS PLAN OF SURVEY ARE NOTED HEREON AND HAVE BEEN OBTAINED BY ROBERTS ENGINEERING GROUP, LLC. THERE MAY EXIST OTHER DOCUMENTS OF RECORD WHICH WOULD AFFECT THIS PLAN.
 - ONLY COPIES OF THE ORIGINAL OF THIS PLAN CLEARLY MARKED WITH THE ENGINEER'S EMBOSSED SEAL SHALL BE CONSIDERED A VALID COPY.
 - BLOCK AND LOT NUMBERS AS SHOWN HEREON ARE BASED UPON THE TAX MAPS OF THE BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY.
 - THIS PLAN IS SUBJECT TO ANY EASEMENTS OR AGREEMENTS, WHICH MAY OR MAY NOT BE OF THE PUBLIC RECORD AND DISCLOSED AT THE TIME OF AN ABSTRACT OF TITLE OR TITLE SEARCH, WHICH MAY BE LOCATED BELOW THE SURFACE OF THE LANDS AND NOT VISIBLE AT THE TIME OF SURVEY. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED UPON ABOVE GROUND STRUCTURES VISIBLE AT THE TIME OF THE FIELD SURVEY AND RECORD OR AS-BUILT DRAWINGS PROVIDED TO ROBERTS ENGINEERING GROUP, LLC.
 - LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON; WHEREAS ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PREPARATION OF THIS SURVEY TO LOCATE BURIED UTILITIES OR STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE UNDERGROUND UTILITIES LOCATION SERVICE AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES, IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS.
 - ALL BUILDINGS, SURFACE AND SUBSURFACE IMPROVEMENTS, ON OR ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN.
 - HORIZONTAL DATUM BASED UPON GPS OBSERVATIONS (NAD 83).
 - VERTICAL DATUM BASED UPON GPS OBSERVATIONS (NAVD 88) BENCHMARKS AS SHOWN.

- CONSTRUCTION NOTES:**
- EXISTING ASPHALT AND CONCRETE DRIVEWAYS TO BE SAW CUT AS NECESSARY. NO SEPARATE PAYMENT.
 - ALL UTILITY VALVE BOXES, MANHOLES, CASTING, COVERS, CONTROL BOXES, ETC. WITHIN THE PROJECT AREA SHALL BE RESET AS REQUIRED.
 - ANY SEDIMENT WASHED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE REMOVED IMMEDIATELY.
 - THE TEMPORARY RIDING SURFACE OF ALL TRENCHES SHALL BE COLD PATCHED OR BASE PAVED PRIOR TO VEHICULAR ACCESS.
- ADDITIONAL NOTES:**
- EXACT LOCATION AND EXTENT OF PAVEMENT BASE REPAIRS TO BE DETERMINED IN THE FIELD BY ENGINEER AFTER MILLING OF ROADWAY.
 - EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND CONTRACTOR TO FIELD VERIFY THROUGH UTILITY MARK-OUT, TEST HOLES (IF AND WHERE DIRECTED) AND FIELD INVESTIGATION AS LOCATIONS, DEPTHS, SIZE, AND QUANTITIES MAY VARY FROM THAT SHOWN ON PLANS.
 - TEMPORARY STOCKPILING ON PAVED SURFACES/ROADWAYS WILL NOT BE PERMITTED.
 - CONTRACTOR TO IMMEDIATELY TRUCK OUT EXCAVATED MATERIAL TO A PROPER OFF-SITE DISPOSAL LOCATION. CONTRACTOR TO FOLLOW PROPER DISPOSAL GUIDELINES AS OUTLINED BY THE MERCER COUNTY SOIL CONSERVATION DISTRICT. OFF-SITE DISPOSAL LOCATION TO BE DETERMINED DURING CONSTRUCTION.



NO.	DATE	REVISIONS	BY	CHECKED



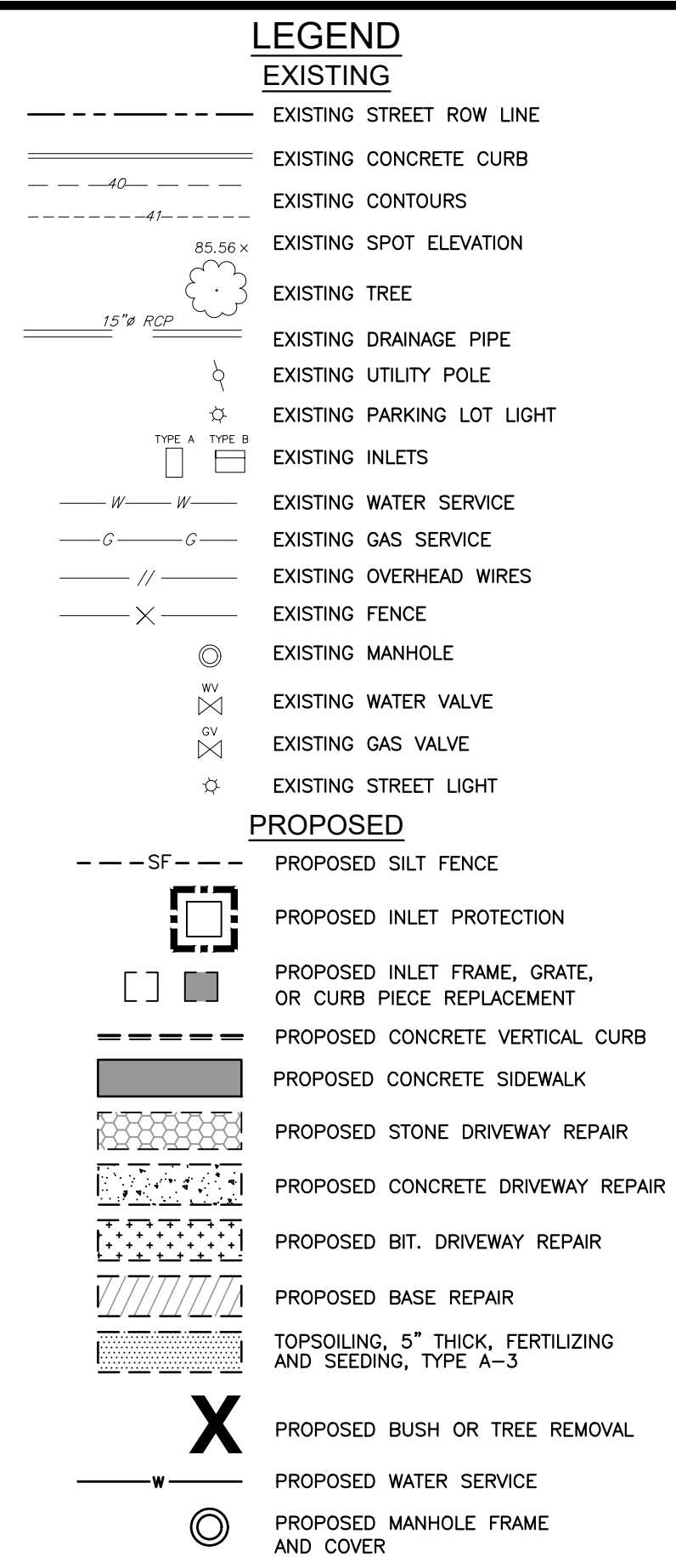
CARMELA ROBERTS, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. NO. 24GE03441900

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STATE OF NEW JERSEY LIC. NO. 24GS03586800

HAUSSER AVENUE PLAN & PROFILE AND
SOIL EROSION & SEDIMENT CONTROL PLAN
IMPROVEMENTS TO HAUSSER
AVENUE, BENNETT PLACE, AND
PROSPECT DRIVE
BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY

FILE NO. H1802	DESIGNED BY CS
DRAWN BY JA	CHECKED BY CC
DATE 4/13/2022	SCALE 1"=20'
DWG. NO.: PP2	SHEET NO.



CONSTRUCT (STA 10+00 TO STA 13+77):

1400	SY	HMA MILLING, 3" OR LESS	
190	TON	HOT MIX ASPHALT 9.5M64	SURFACE COURSE, 2" THICK
130	TON	HOT MIX ASPHALT 9.5M64	LEVELING COURSE, VARIABLE THICKNESS
125	GAL	TACK COAT	
30	SY	HMA PAVEMENT REPAIR	
150	SY	FERTILIZING AND SEEDING, TYPE A-3	
150	SY	TOPSOIL SPREADING, 5" THICK	


1. THIS PLAN REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF AERIAL PHOTOS, TAX MAPS, AND A FIELD SURVEY PERFORMED BY ROBERTS ENGINEERING GROUP, LLC. DATED SEPTEMBER 8, 2021.
2. RIGHT-OF-WAY AND PROPERTY LINE INFORMATION ARE APPROXIMATE AND ARE BASED UPON TAX MAP INFORMATION AND LIMITED FIELD SURVEYING.
3. THIS PLAN IS NOT INTENDED TO GUARANTEE OWNERSHIP. DOCUMENTS OF RECORD WHICH MAY HAVE BEEN REVIEWED AND CONSIDERED AS PART OF THIS PLAN OF SURVEY ARE NOTED HEREON AND ANY CORRECTIONS TO BE OBTAINED BY THE PROPERTY OWNER FROM THE ENGINEERING GROUP, LLC. THERE MAY EXIST OTHER DOCUMENTS OF RECORD WHICH WOULD AFFECT THIS PLAN.
4. ONLY COPIES OF THE ORIGINAL OF THIS PLAN CLEARLY MARKED WITH THE ENGINEER'S EMBOSSED SEAL SHALL BE CONSIDERED A VALID COPY.
5. BLOCK AND LOT NUMBERS AS SHOWN HEREON ARE BASED UPON THE TAX MAPS OF THE BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY.
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7. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON; WHEREAS ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED, NO EXCAVATIONS WERE MADE TO VERIFY THE DEPTH OR LOCATION OF THIS SURVEY TO LOCATE BURIED UTILITIES OR STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE UNDERGROUND UTILITIES LOCATION SERVICE AT 1-800-422-1776 SHALL BE CONTACTED AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES, IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS.
8. ALL BUILDINGS, SURFACE AND SUBSURFACE IMPROVEMENTS, ON OR ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN.
9. HORIZONTAL DATUM BASED UPON GPS OBSERVATIONS (NAVD 83).
10. VERTICAL DATUM BASED UPON GPS OBSERVATIONS (NAVD 88) BENCHMARKS AS SHOWN.

1. EXISTING ASPHALT AND CONCRETE DRIVEWAYS TO BE SAW CUT AS NECESSARY. NO SEPARATE PAYMENT.
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3. ANY SEDIMENT WASHED, TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE REMOVED IMMEDIATELY.
4. THE TEMPORARY RIDING SURFACE OF ALL TRENCHES SHALL BE COLD PATCHED OR BASE PAVED PRIOR TO VEHICULAR ACCESS.


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2. EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND CONTRACTOR TO FIELD VERIFY THAT UTILITY MARK-OUT, TEST HOLES (IF AND WHERE DIRECTED) AND FIELD INVESTIGATION AS LOCATIONS, DEPTHS, SIZE, AND QUANTITIES MAY VARY FROM THAT SHOWN ON PLANS.
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GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



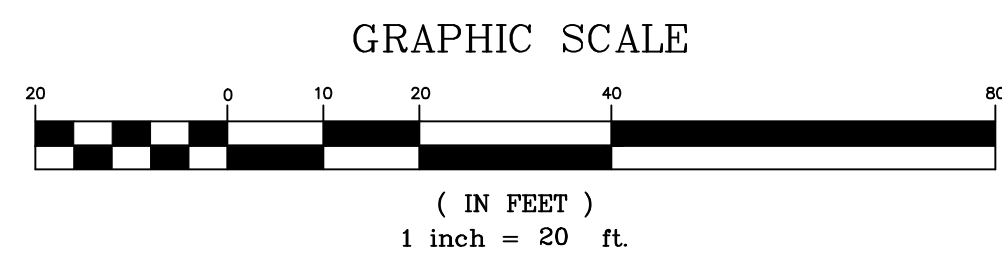
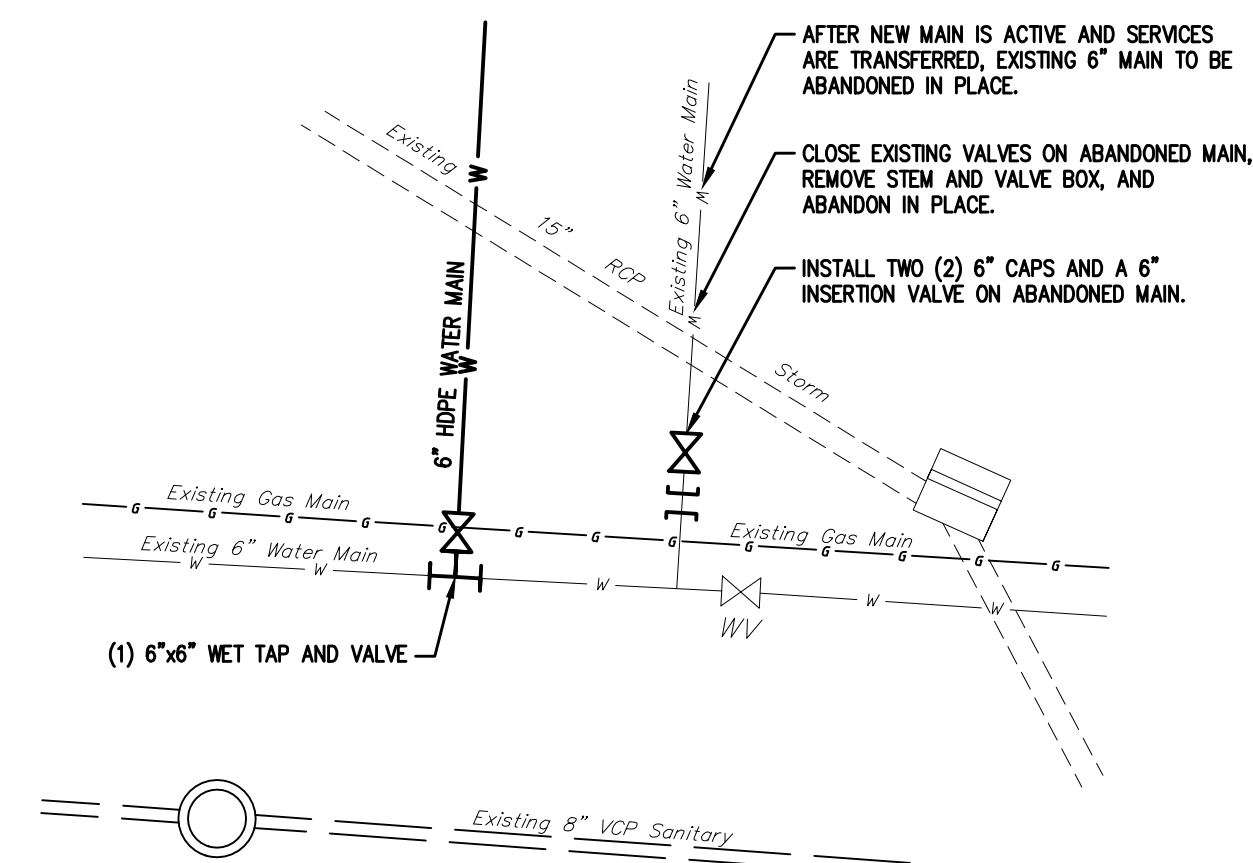
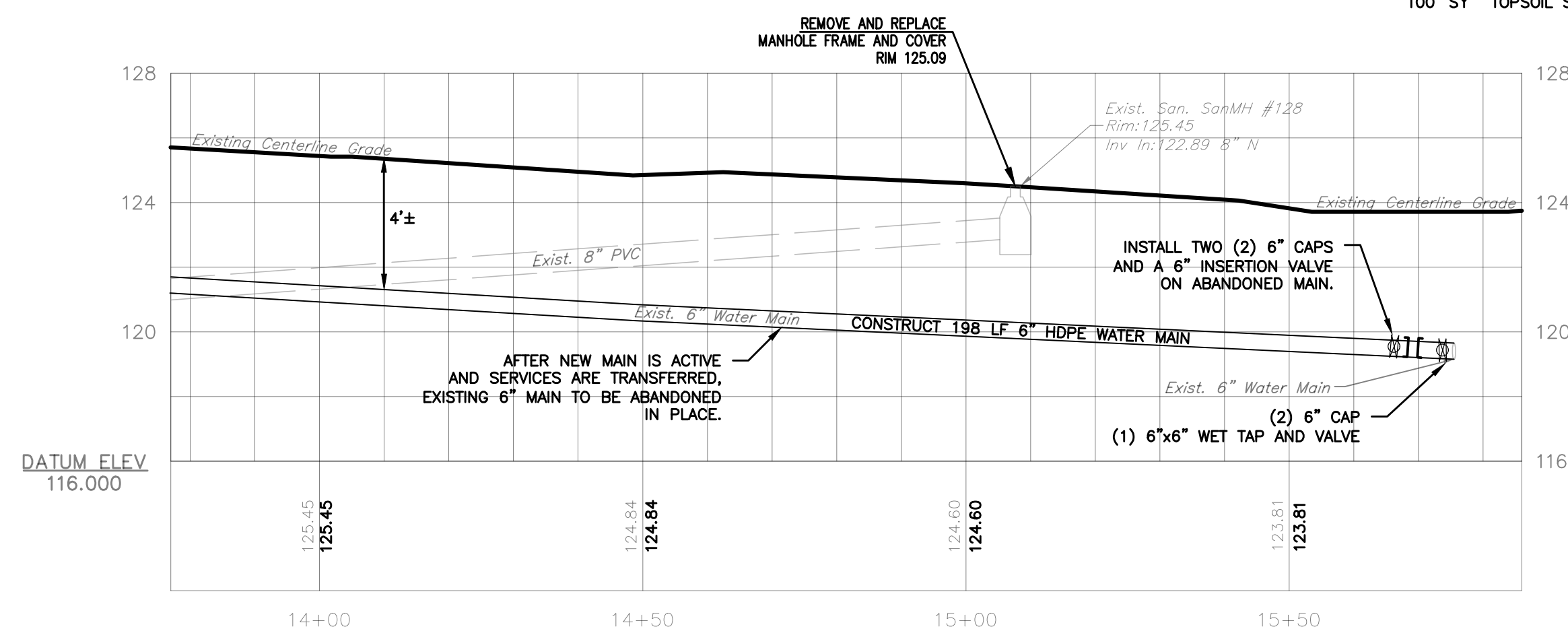
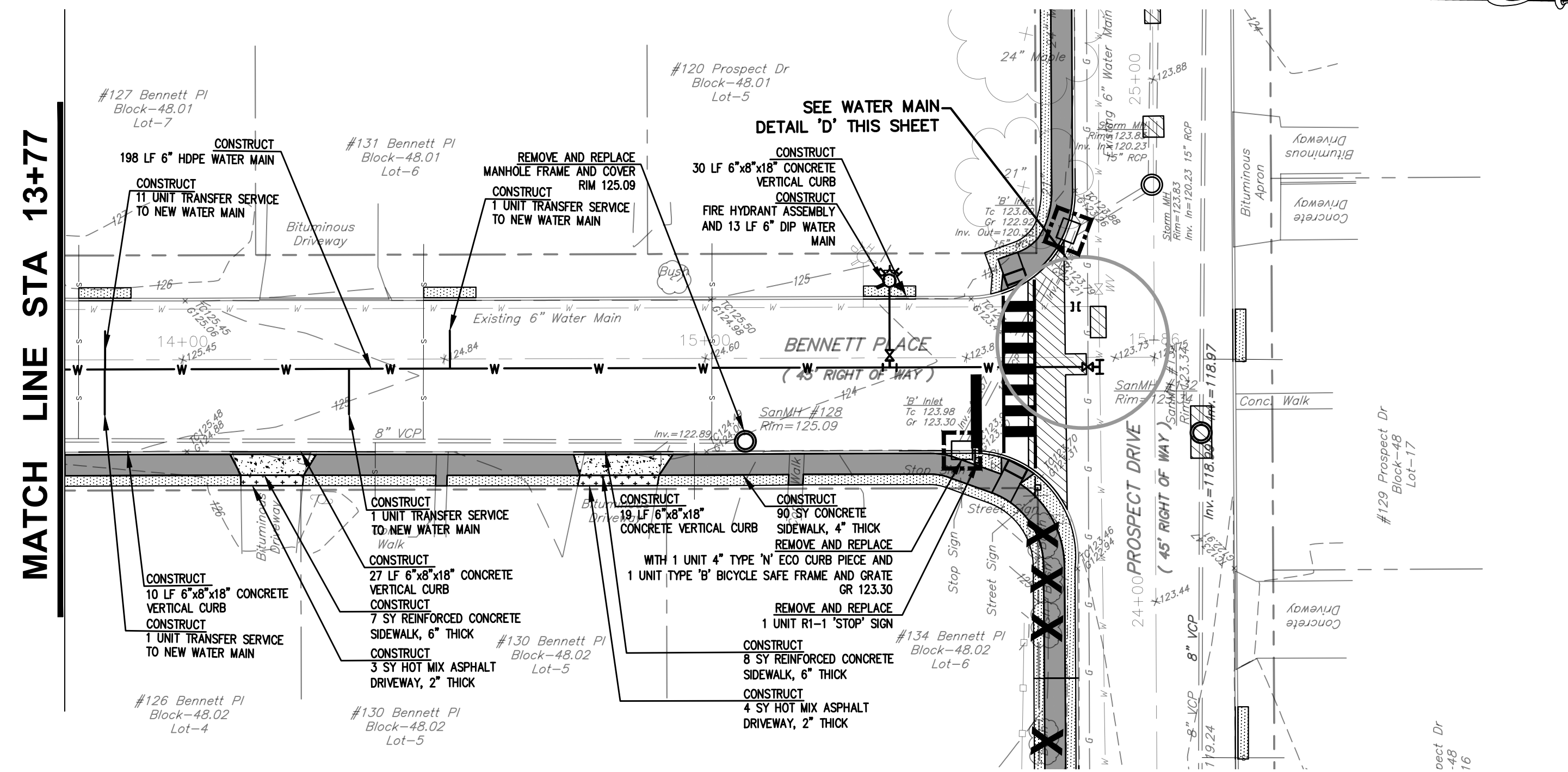
Roberts
ENGINEERING GROUP LLC
Women Business Enterprise Certified

CERTIFICATE OF AUTHORIZATION: 24GA28159100


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LICENSED PROFESSIONAL LAND SURVEYOR
STATE OF NEW JERSEY LIC. No. 24GS03586800

6 OF 15



1	9/21/21	REVISE PER NJDOT COMMENTS DATED SEPTEMBER 17, 2021.	KP	CC
NO.	DATE	REVISIONS	BY	CHECKED



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ENGINEERING GROUP LLC
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CERTIFICATE OF AUTHORIZATION: 24GA28159100

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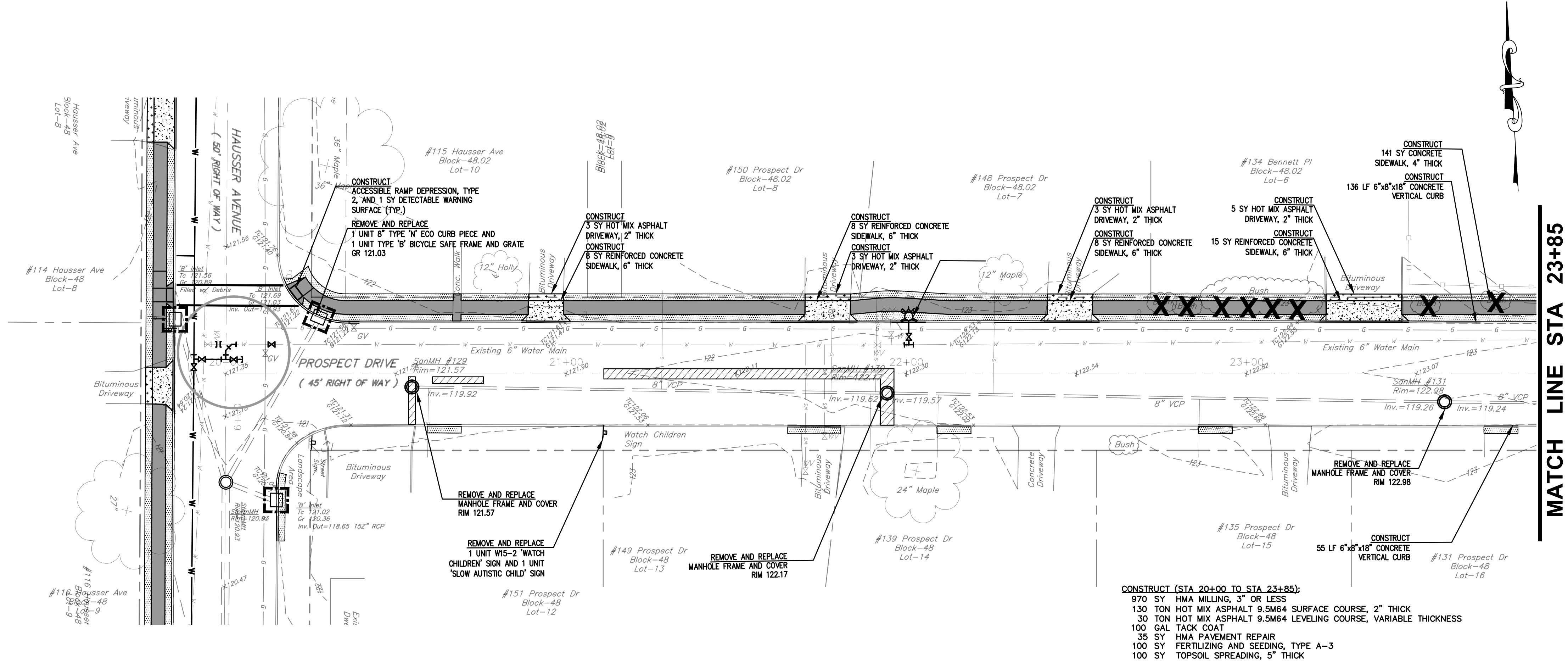
BENNETT PLACE PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN									
IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE									
BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">FILE NO.: H1802</td> <td style="width: 50%; padding: 2px;">DESIGNED BY: CC</td> </tr> <tr> <td style="padding: 2px;">DRAWN BY: JA</td> <td style="padding: 2px;">CHECKED BY: CC</td> </tr> <tr> <td style="padding: 2px;">DATE: 4/13/2022</td> <td style="padding: 2px;">SCALE: 1"= 20'</td> </tr> <tr> <td style="padding: 2px;">DWG. No.: PP4</td> <td style="padding: 2px;">SHEET No. 7</td> </tr> </table>	FILE NO.: H1802	DESIGNED BY: CC	DRAWN BY: JA	CHECKED BY: CC	DATE: 4/13/2022	SCALE: 1"= 20'	DWG. No.: PP4	SHEET No. 7
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DRAWN BY: JA	CHECKED BY: CC								
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DWG. No.: PP4	SHEET No. 7								

7 OF 15

FILE No.: H1802	DESIGNED BY: CC
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DATE: 4/13/2022	
SCALE: 1"=20'	
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SHEET No.	

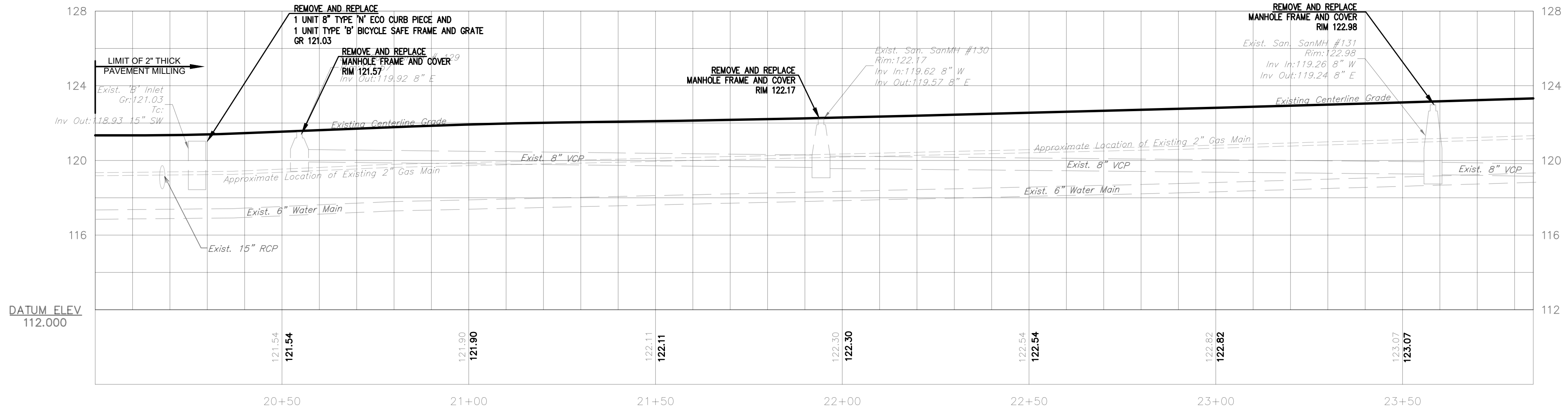
7 OF 15

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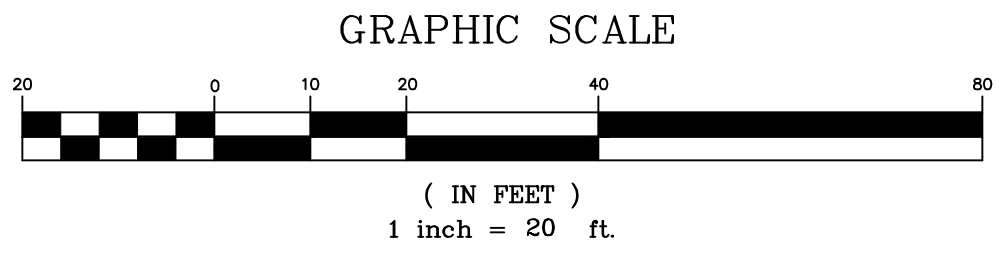


MATCH LINE STA 23+85

- LEGEND**
- EXISTING**
- EXISTING STREET ROW LINE
 - EXISTING CONCRETE CURB
 - EXISTING CONTOURS
 - EXISTING SPOT ELEVATION
 - EXISTING TREE
 - EXISTING DRAINAGE PIPE
 - EXISTING UTILITY POLE
 - EXISTING PARKING LOT LIGHT
 - EXISTING INLETS
 - EXISTING WATER SERVICE
 - EXISTING GAS SERVICE
 - EXISTING OVERHEAD WIRES
 - EXISTING FENCE
 - EXISTING MANHOLE
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING STREET LIGHT
- PROPOSED**
- SF --- PROPOSED SILT FENCE
 - PROPOSED INLET PROTECTION
 - PROPOSED INLET FRAME, GRATE, OR CURB PIECE REPLACEMENT
 - PROPOSED CONCRETE VERTICAL CURB
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED STONE DRIVEWAY REPAIR
 - PROPOSED CONCRETE DRIVEWAY REPAIR
 - PROPOSED BIT. DRIVEWAY REPAIR
 - PROPOSED BASE REPAIR
 - TOPSOILING, 5" THICK, FERTILIZING AND SEEDING, TYPE A-3
 - PROPOSED BUSH OR TREE REMOVAL
 - PROPOSED WATER SERVICE
 - PROPOSED MANHOLE FRAME AND COVER



PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'



- GENERAL NOTES:**
- THIS PLAN REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF AERIAL PHOTOS, TAX MAPS, AND A FIELD SURVEY PERFORMED BY ROBERTS ENGINEERING GROUP, LLC, DATED SEPTEMBER 8, 2021.
 - RIGHT-OF-WAY AND PROPERTY LINE INFORMATION ARE APPROXIMATE AND ARE BASED UPON TAX MAP INFORMATION AND LIMITED FIELD SURVEYING.
 - THIS PLAN IS NOT INTENDED TO GUARANTEE OWNERSHIP. DOCUMENTS OF RECORD WHICH MAY HAVE BEEN REVIEWED AND CONSIDERED AS PART OF THIS PLAN OF SURVEY ARE NOTED HEREON AND HAVE BEEN OBTAINED BY ROBERTS ENGINEERING GROUP, LLC. THERE MAY EXIST OTHER DOCUMENTS OF RECORD WHICH WOULD AFFECT THIS PLAN.
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 - HORIZONTAL DATUM BASED UPON GPS OBSERVATIONS (NAD 83).
 - VERTICAL DATUM BASED UPON GPS OBSERVATIONS (NAVD 88) BENCHMARKS AS SHOWN.

- CONSTRUCTION NOTES:**
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- ADDITIONAL NOTES:**
- EXACT LOCATION AND EXTENT OF PAVEMENT BASE REPAIRS TO BE DETERMINED IN THE FIELD BY ENGINEER AFTER MILLING OF ROADWAY.
 - EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND CONTRACTOR TO FIELD VERIFY THROUGH UTILITY MARK-OUT, TEST HOLES (IF AND WHERE DIRECTED) AND FIELD INVESTIGATION AS LOCATIONS, DEPTHS, SIZE, AND QUANTITIES MAY VARY FROM THAT SHOWN ON PLANS.
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 - CONTRACTOR TO IMMEDIATELY TRUCK OUT EXCAVATED MATERIAL TO A PROPER OFF-SITE DISPOSAL LOCATION. CONTRACTOR TO FOLLOW PROPER DISPOSAL GUIDELINES AS OUTLINED BY THE MERCER COUNTY SOIL CONSERVATION DISTRICT. OFF-SITE DISPOSAL LOCATION TO BE DETERMINED DURING CONSTRUCTION.

Roberts
ENGINEERING GROUP LLC
Women Business Enterprise Certified
CERTIFICATE OF AUTHORIZATION: 24GA28159100

1670 Whitehorse-Hamilton Square Rd.
Hamilton, New Jersey 08690
609-586-1141 fax 609-586-1143
www.RobertsEngineeringGroup.com

CARMELA ROBERTS, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE03441900

TED W. PIVOVARNICK, PLS
LICENSED PROFESSIONAL LAND SURVEYOR
STATE OF NEW JERSEY LIC. No. 24GS03586800

**PROSPECT DRIVE PLAN & PROFILE AND
SOIL EROSION & SEDIMENT CONTROL PLAN**

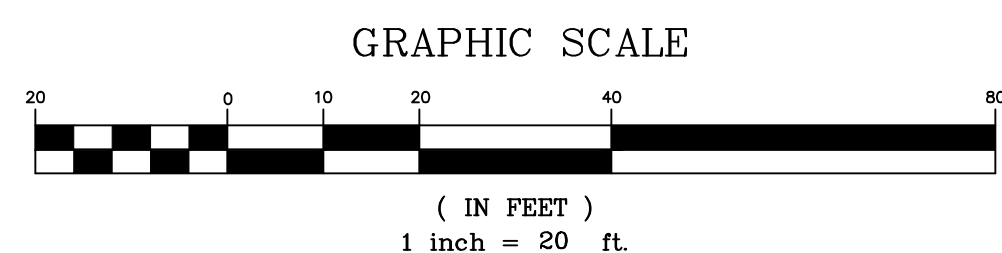
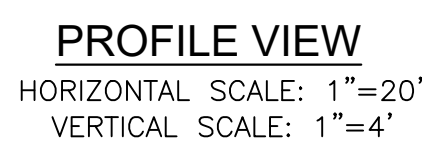
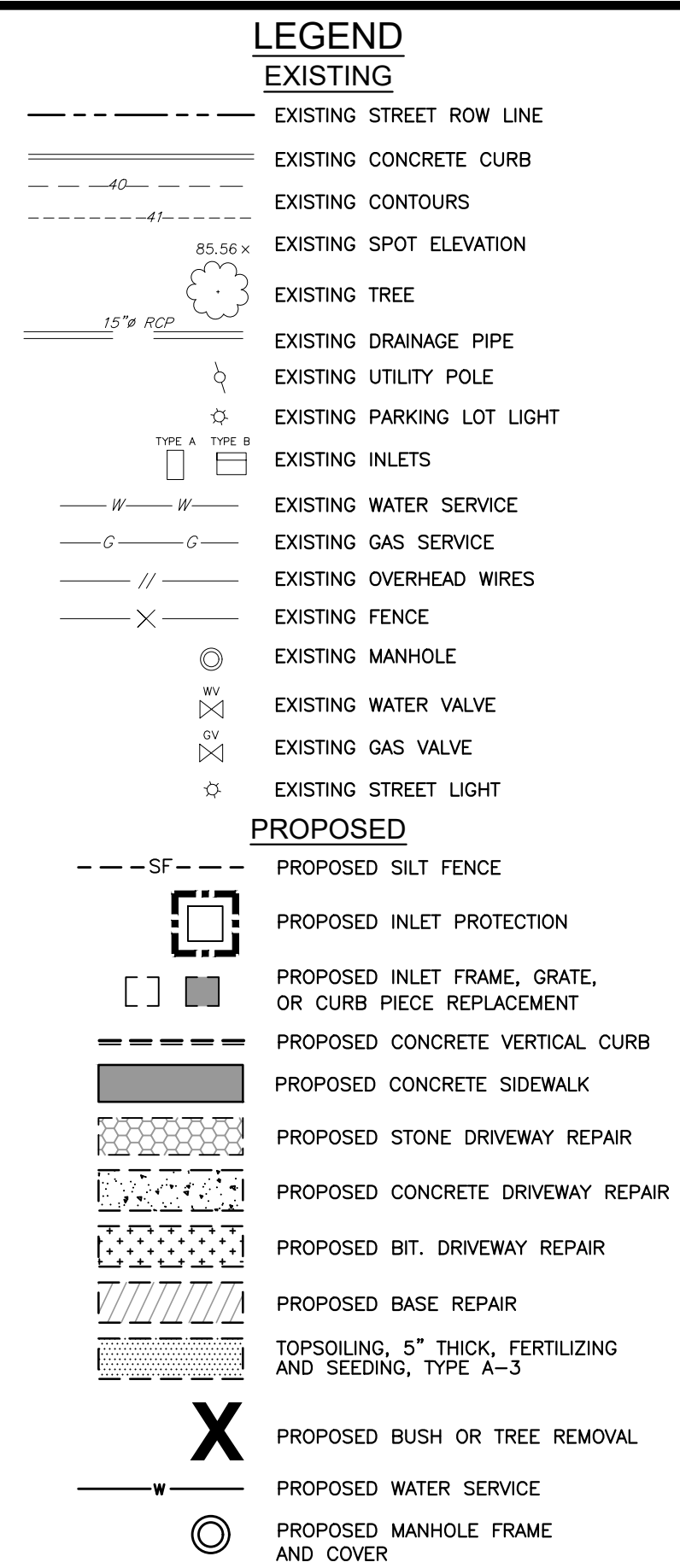

**IMPROVEMENTS TO HAUSSER
AVENUE, BENNETT PLACE, AND
PROSPECT DRIVE**

BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY

FILE NO.: H1802	DESIGNED BY: CS
DRAWN BY: JA	CHECKED BY: CC
DATE: 4/13/2022	
SCALE: 1"=20'	
DWG. No.: PP5	
SHEET No.	

8 OF 15

NO.	DATE	REVISIONS	BY	CHECKED

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ENGINEERING GROUP LLC
Women Business Enterprise Certified

CERTIFICATE OF AUTHORIZATION: 24GA281S9100

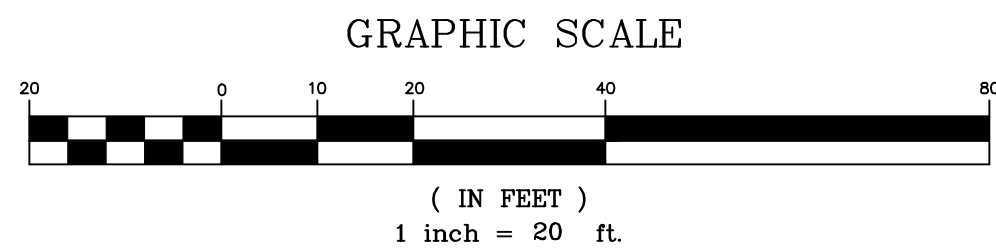
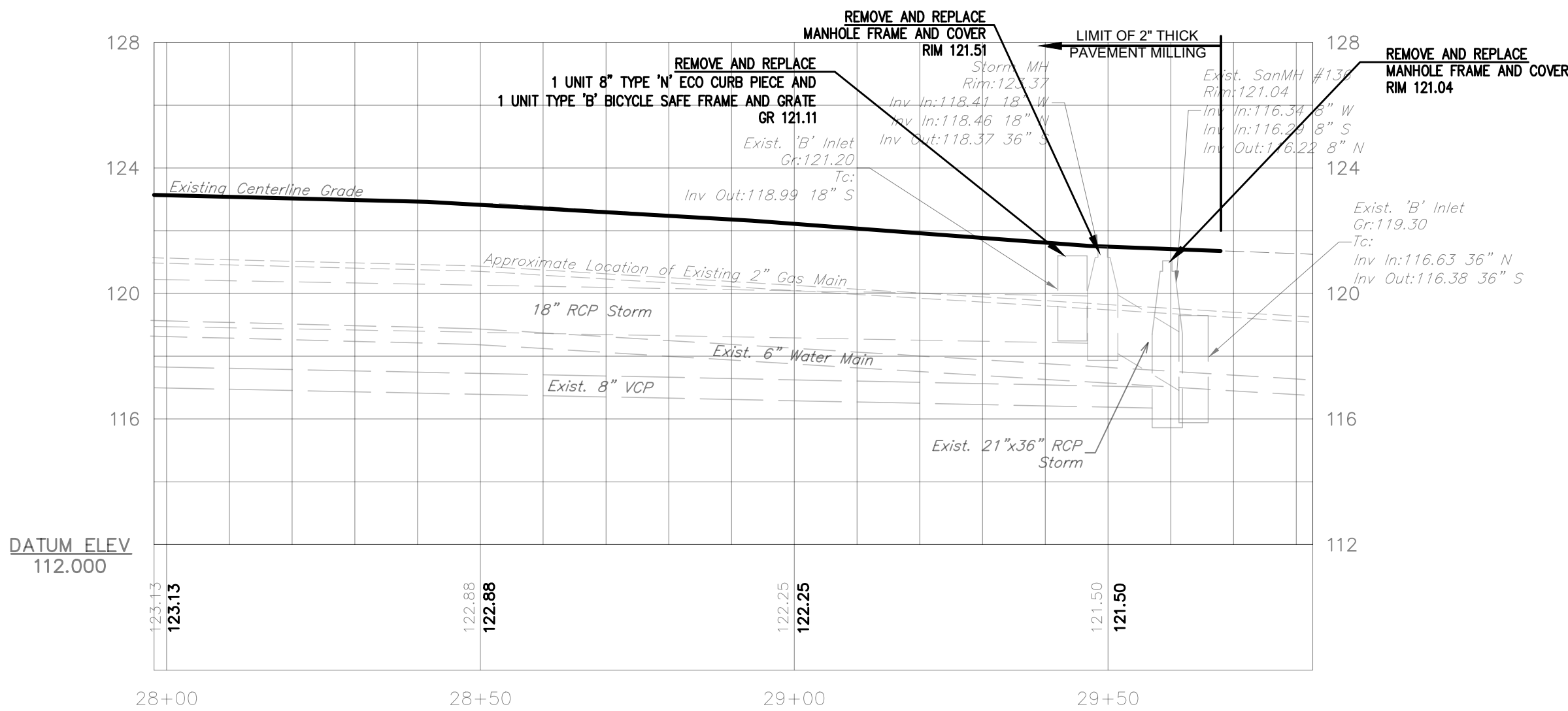
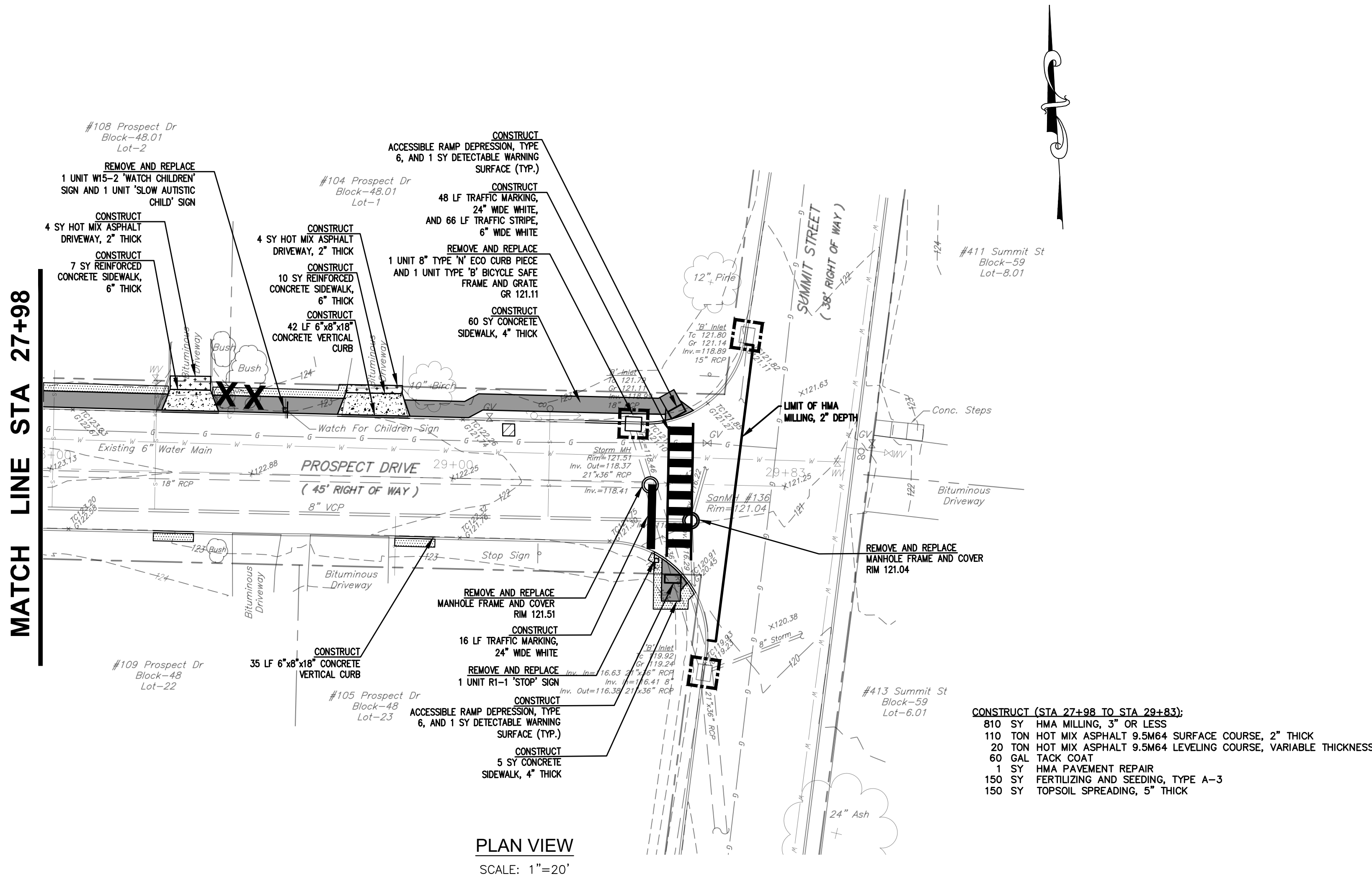
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PROSPECT DRIVE PLAN & PROFILE AND SOIL EROSION & SEDIMENT CONTROL PLAN		FILE NO. H1802
IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE		DRAWN BY: JG
		DATE:
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		DWG. No.
BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY		SHEET N

FILE No.: H1802	DESIGNED BY: CC
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DATE: 4/13/2022	
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DWG. No.:PP6	
SHEET No.	



- LEGEND
- EXISTING
- EXISTING STREET ROW LINE
 - EXISTING CONCRETE CURB
 - EXISTING CONTOURS
 - EXISTING SPOT ELEVATION
 - EXISTING TREE
 - EXISTING DRAINAGE PIPE
 - EXISTING UTILITY POLE
 - EXISTING PARKING LOT LIGHT
 - EXISTING INLETS
 - EXISTING WATER SERVICE
 - EXISTING GAS SERVICE
 - EXISTING OVERHEAD WIRES
 - EXISTING FENCE
 - EXISTING MANHOLE
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING STREET LIGHT
- PROPOSED
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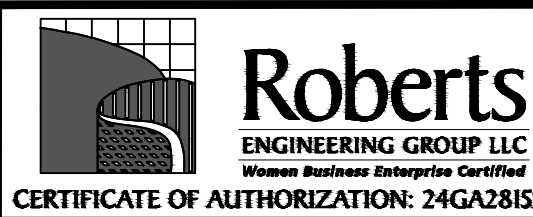
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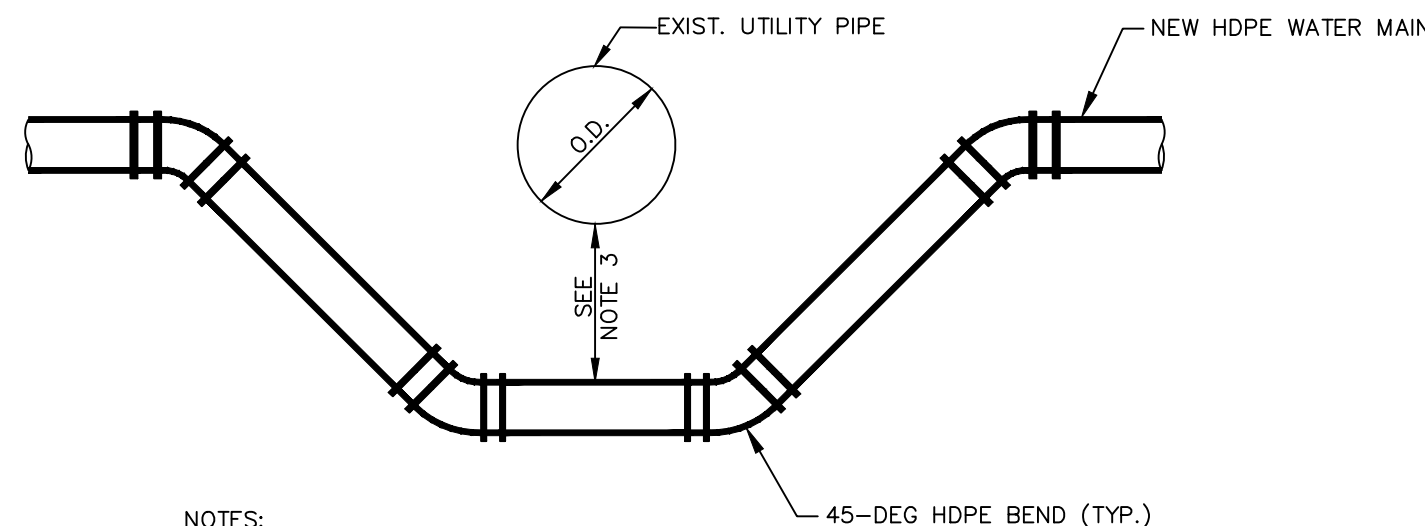
PROSPECT DRIVE PLAN & PROFILE AND
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IMPROVEMENTS TO HAUSSER
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BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY

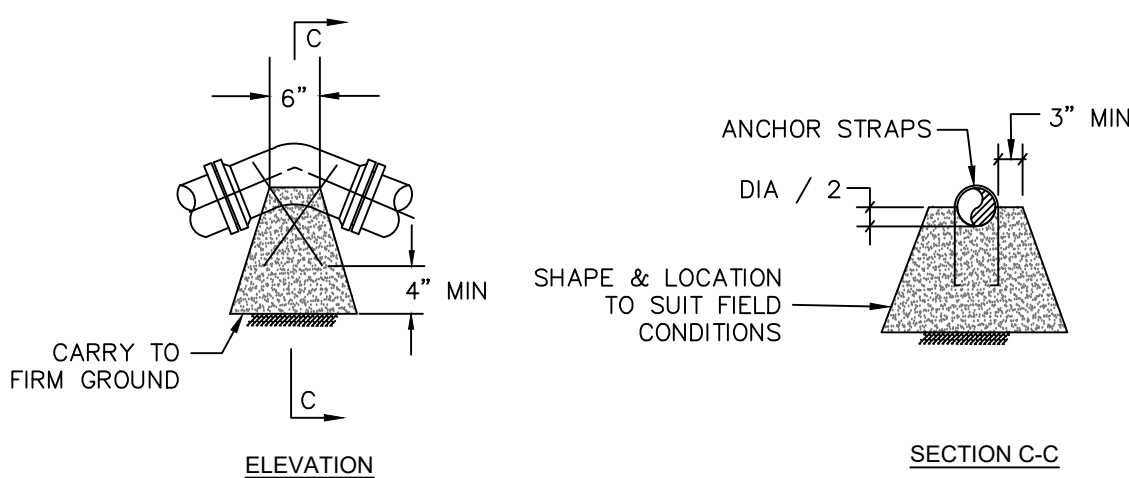
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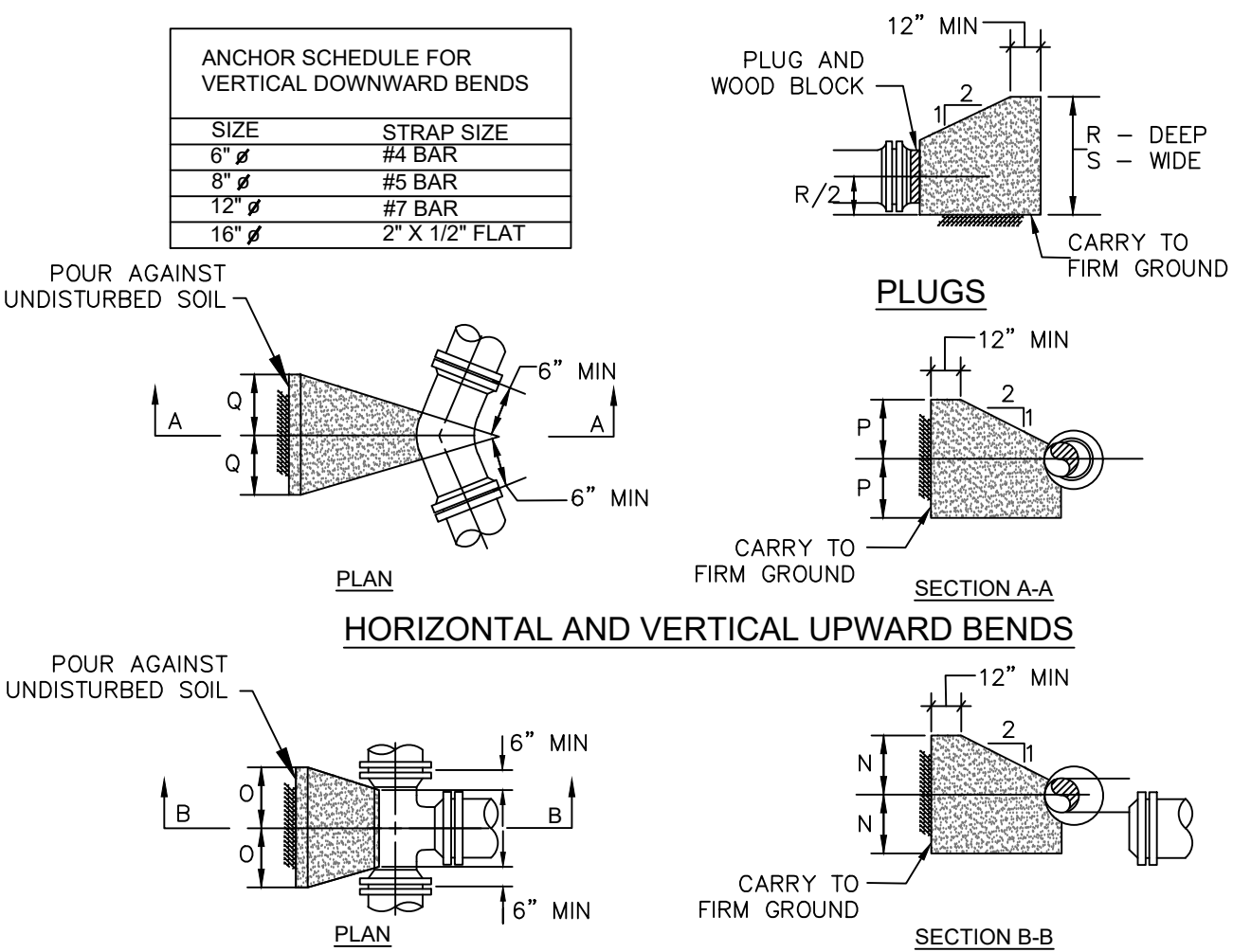


- NOTES:**
1. WATER MAIN MAY BE LOOPED ABOVE OBSTRUCTION IF 4' MINIMUM COVER IS MAINTAINED ABOVE MAIN.
 2. WATER MAIN SHALL BE HDPE PIPE. ALL JOINTS SHALL BE BUTT FUSED
 3. MINIMUM CLEARANCE BETWEEN SANITARY SEWER AND WATER MAIN SHALL BE 18" VERTICAL AND 10' HORIZONTAL. WHERE NOT POSSIBLE TO INSTALL WATER MAIN OVER SANITARY SEWER, THEN THE SEWER SHALL BE OF WATER TIGHT CONSTRUCTION WITH JOINTS 10' MINIMUM FROM THE WATER MAIN OR WATER MAIN SHALL BE CONCRETE ENCASED. CLEARANCE BETWEEN WATER MAIN AND OTHER OBSTRUCTIONS SHALL BE 12" VERTICAL.
 4. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER. HDPE FITTINGS REQUIRING THRUST BLOCK SHALL HAVE A FLEX RESTRAINT DEVICE INSTALLED ON THE FITTING BY ELECTROFUSION.

UTILITY BY-PASS - HDPE PIPE



VERTICAL DOWNWARD BENDS



HORIZONTAL AND VERTICAL UPWARD BENDS

DESCRIPTION	DIMENSION	4" Ø	6" Ø	8" Ø	10" Ø	12" Ø	14" Ø	16" Ø	20" Ø	24" Ø
TEES	N	0'-7"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-8"	3'-2"
	O	0'-7"	1'-0"	1'-10"	1'-5"	1'-8"	1'-11"	2'-4"	2'-8"	3'-2"
	P	0'-9"	1'-0"	1'-3"	1'-8"	2'-0"	2'-3"	2'-8"	3'-2"	3'-9"
	Q	0'-9"	1'-4"	1'-10"	1'-8"	2'-0"	2'-3"	2'-8"	3'-2"	3'-9"
45° BENDS	P	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-9"
	Q	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-9"
22 1/2° BENDS	P	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-8"	2'-0"
	Q	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-8"	2'-0"
11 1/4° BENDS	P	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-5"
	Q	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-5"
45° BENDS	MIN. CONC.* ANCHORAGE	0.6 CY	1.4 CY	2.5 CY	2.8 CY	3.9 CY	5.2 CY	6.8 CY	10.4 CY	14.9 CY
22 1/2° BENDS	MIN. CONC.* ANCHORAGE	0.3 CY	0.7 CY	1.0 CY	1.4 CY	2.0 CY	2.7 CY	4.6 CY	7.1 CY	9.0 CY
11 1/4° BENDS	MIN. CONC.* ANCHORAGE	0.2 CY	0.3 CY	0.5 CY	0.7 CY	1.0 CY	1.4 CY	1.8 CY	2.7 CY	3.8 CY
	R	1'-2"	2'-0"	2'-4"	2'-10"	3'-4"	3'-10"	4'-8"	5'-4"	6'-4"
	S	1'-2"	2'-0"	2'-4"	2'-10"	3'-4"	3'-10"	4'-8"	5'-4"	6'-4"

* MIN. CONC. ANCHORAGE WITHOUT BACKFILL AND NO GROUND WATER CONDITION.

NOTE:
THRUST BLOCKS DESIGNED FOR 150 LB PER SQ. IN. TEST PRESSURE & 200 LB PER SQ. FT. SOIL PRESSURE

DESCRIPTION	DIMENSION	4" Ø	6" Ø	8" Ø	10" Ø	12" Ø	14" Ø	16" Ø	20" Ø	24" Ø
TEES	N	0'-7"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-8"	3'-2"
	O	0'-7"	1'-0"	1'-10"	1'-5"	1'-8"	1'-11"	2'-4"	2'-8"	3'-2"
	P	0'-9"	1'-0"	1'-3"	1'-8"	2'-0"	2'-3"	2'-8"	3'-2"	3'-9"
	Q	0'-9"	1'-4"	1'-10"	1'-8"	2'-0"	2'-3"	2'-8"	3'-2"	3'-9"
45° BENDS	P	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-9"
	Q	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	1'-11"	2'-4"	2'-9"
22 1/2° BENDS	P	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-8"	2'-0"
	Q	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	1'-4"	1'-8"	2'-0"
11 1/4° BENDS	P	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-5"
	Q	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-0"	1'-2"	1'-5"
45° BENDS	MIN. CONC.* ANCHORAGE	0.6 CY	1.4 CY	2.5 CY	2.8 CY	3.9 CY	5.2 CY	6.8 CY	10.4 CY	14.9 CY
22 1/2° BENDS	MIN. CONC.* ANCHORAGE	0.3 CY	0.7 CY	1.0 CY	1.4 CY	2.0 CY	2.7 CY	4.6 CY	7.1 CY	9.0 CY
11 1/4° BENDS	MIN. CONC.* ANCHORAGE	0.2 CY	0.3 CY	0.5 CY	0.7 CY	1.0 CY	1.4 CY	1.8 CY	2.7 CY	3.8 CY
	R	1'-2"	2'-0"	2'-4"	2'-10"	3'-4"	3'-10"	4'-8"	5'-4"	6'-4"
	S	1'-2"	2'-0"	2'-4"	2'-10"	3'-4"	3'-10"	4'-8"	5'-4"	6'-4"

THRUST BLOCK DETAIL

NOTE:
CONCRETE THRUST BLOCKS SHALL NOT BE BACKFILLED UNTIL APPROVED BY THE ENGINEER.
POURED CONCRETE THRUST BLOCKS MUST BE ALLOWED TO BECOME STABLE PRIOR TO BACKFILLING AND COMPACTION.

NOTE:
THE SERVICE LINE SHALL BE INSTALLED FROM THE CORPORATION STOP TO THE CURB VALVE USING ONE CONTINUOUS PIECE OF TUBING; THAT IS, NO UNIONS SHALL BE INSTALLED ON THE SERVICE LINE BETWEEN THE CORPORATION STOP TO THE NEW CURB VALVE. TRACER WIRE/RIBBON IS TO BE INSTALLED APPROXIMATELY 18-INCHES ABOVE SERVICE PIPING.

NOTE:
ELECTROFUSION SADDLE WITH THREADED BRASS OUTLET

NOTE:
CURB VALVE MUELLER CAT. NO. H1520N OR H15172N (FOR GALVANIZED PIPE) OR APPROVED EQUAL

NOTE:
TO METER

NOTE:
SERVICE PIPE - CROSSLINKED POLYETHYLENE PIPE

NOTE:
WATER CONNECTION DETAIL

NOTE:
N.T.S.

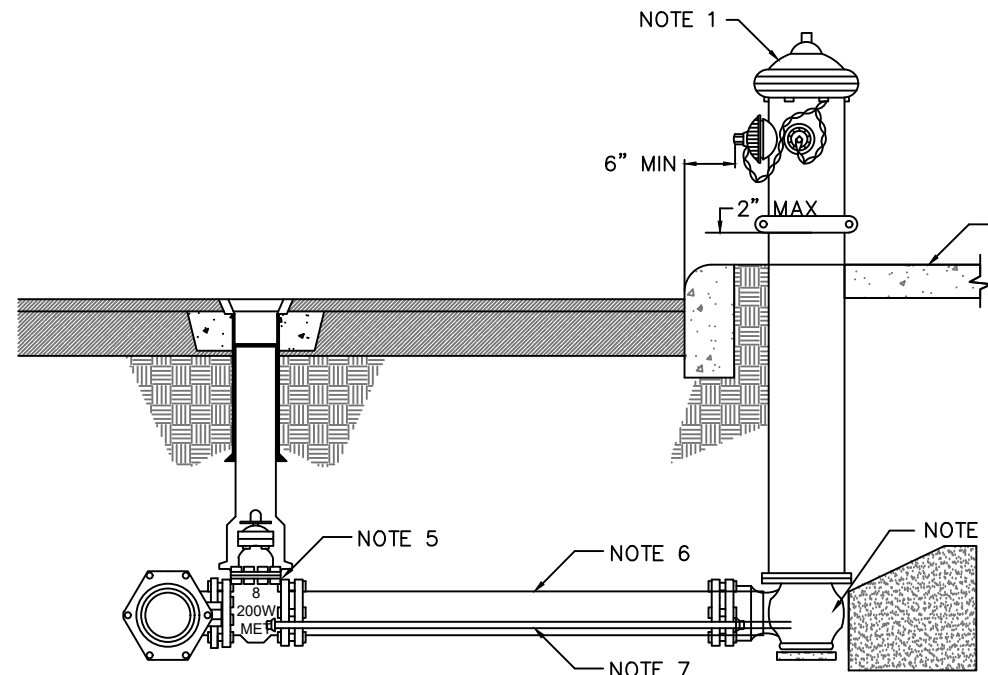
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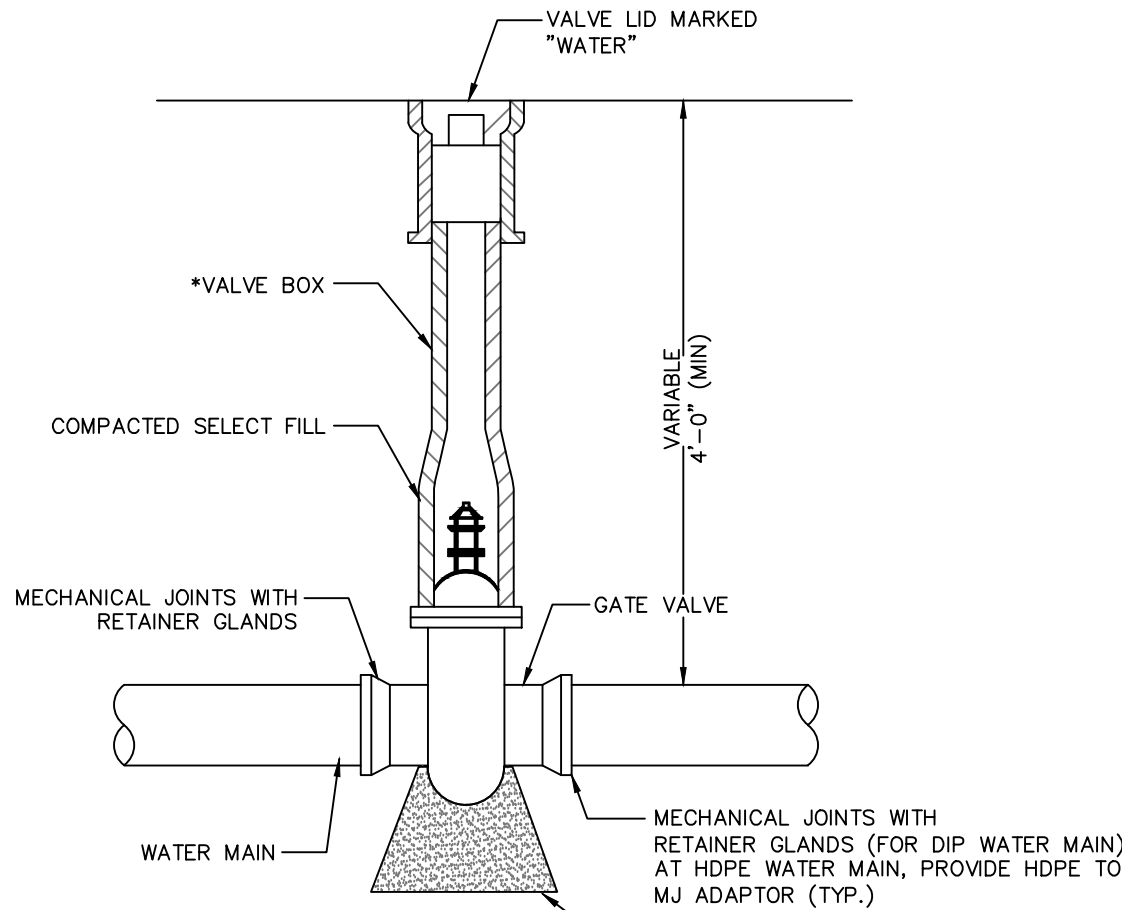
NOTES:

1. HYDRANT SHALL BE MUELLER CENTURION A423 (OR APPROVED EQUAL), 5 1/2" BARREL IN ACCORDANCE W/ ANSI/AWWA C502.
2. STANDPIPE (BREAK - AWAY COUPLING SHALL NOT EXCEED A MAXIMUM OF 5 INCHES FROM THE TOP OF THE CURB TO THE BOTTOM OF THE COUPLING.
3. THE DRAIN VALVE SHALL BE CLEAR OF ANY OBSTRUCTIONS, AND 1" CLEAN GRAVEL BE PLACED FROM THE BOTTOM TO THE HYDRANT TO A POINT 4" ABOVE THE DRAIN VALVE FOR PROPER DRAINAGE.
4. BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH DETAIL.
5. MUELLER RIGHT HAND CLOSE SUPERSEAL RESILIENT WEDGE VALVE
6. 6" DUCTILE IRON CEMENT LINED PIPE PRESSURE CLASS 350
7. 3" DIAMETER TIE ROD WITH BOLTS - 2 REQUIRED (SIDE VIEW SHOWN). SEE VALVE BOX INSTALLATION DETAIL. JOINT RESTRAINT RETAINER GLANDS MAY BE USED IN PLACE OF TIE RODS.



FIRE HYDRANT ASSEMBLY DETAIL

NOTE:
N.T.S.

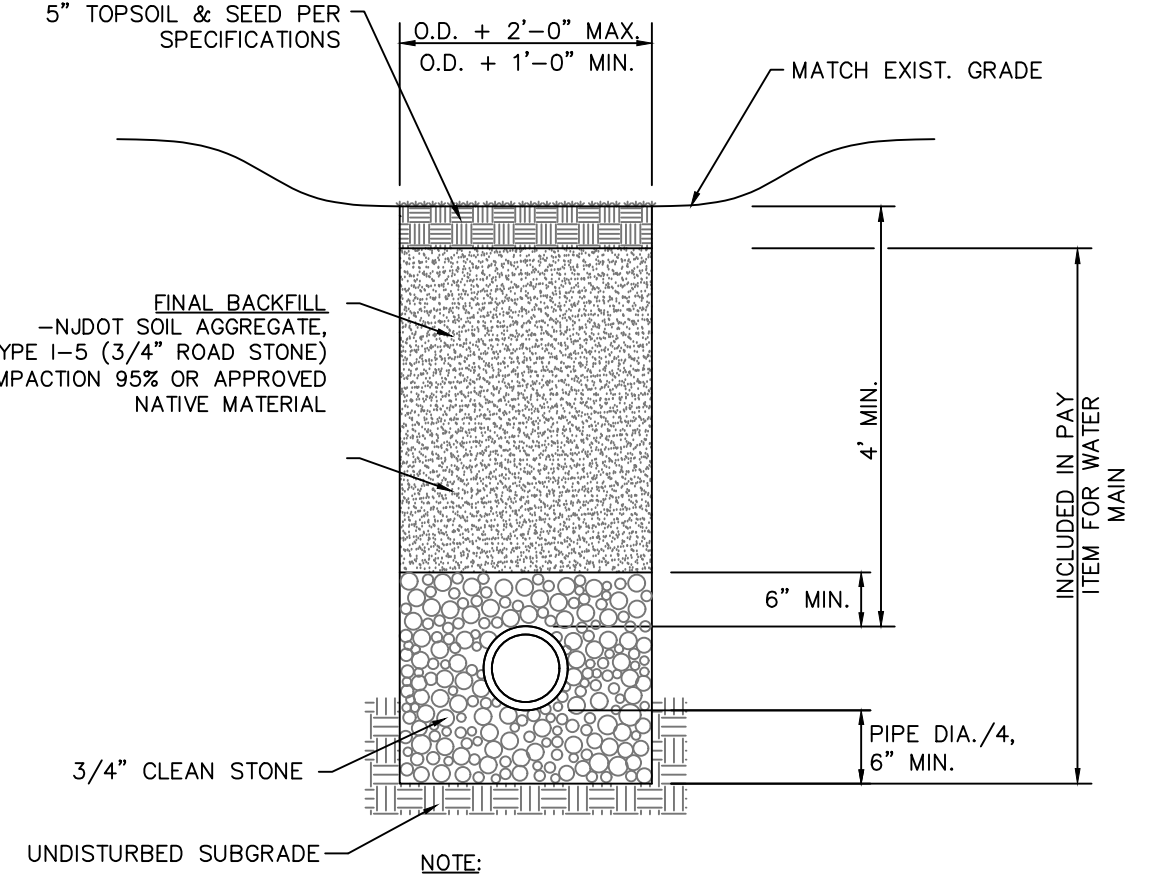


NOTES:

1. VALVE BOX TO BE SET PLUMB.
2. VALVE BOX TO BE TYPE 51" ADJUSTABLE "BUFFALO STYLE" CAST IRON AS MANUFACTURED BY MUELLER CO. OR APPROVED EQUIVALENT.
3. VALVE BOX SHALL BE FREE OF DIRT, ASPHALT AND ALL OTHER DEBRIS.
4. VALVE BOX LID SHALL BE MARKED WATER.

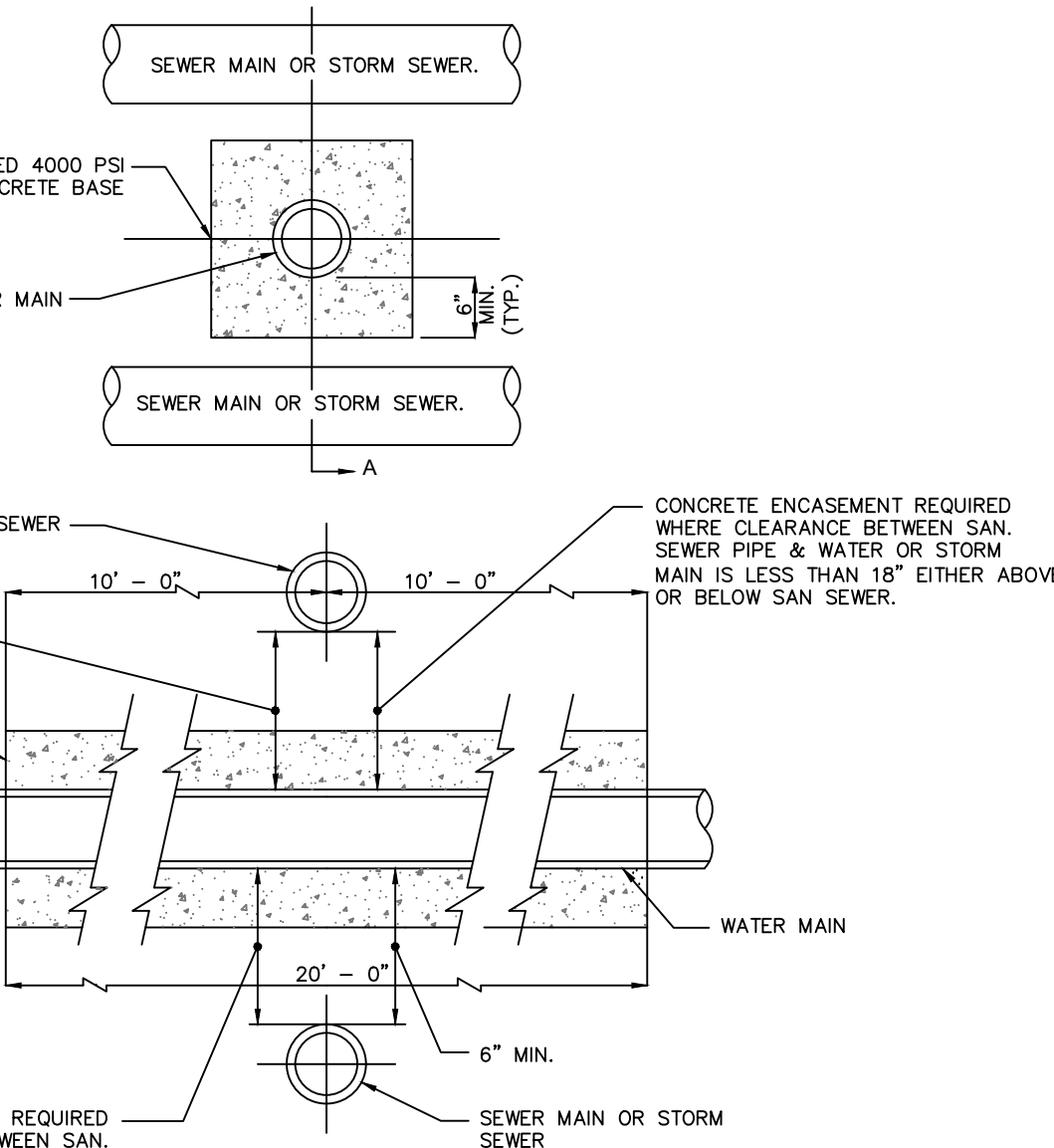
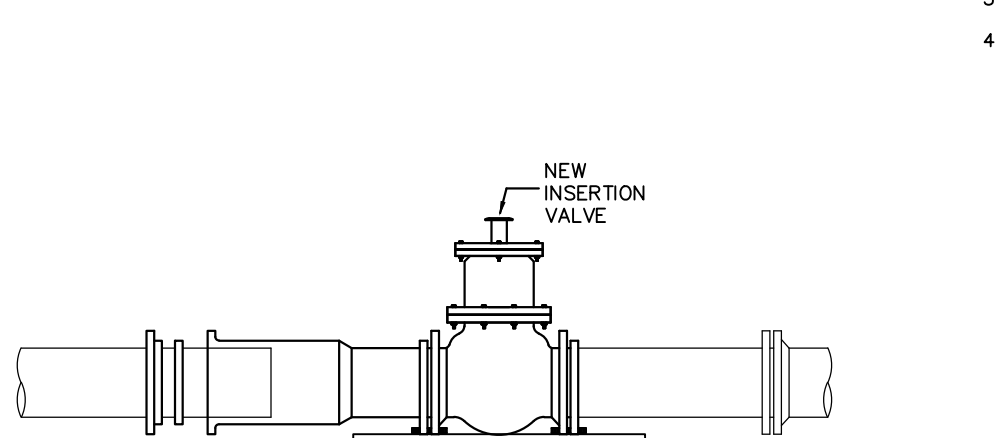
GATE VALVE AND VALVE BOX DETAIL

NOTE:
N.T.S.



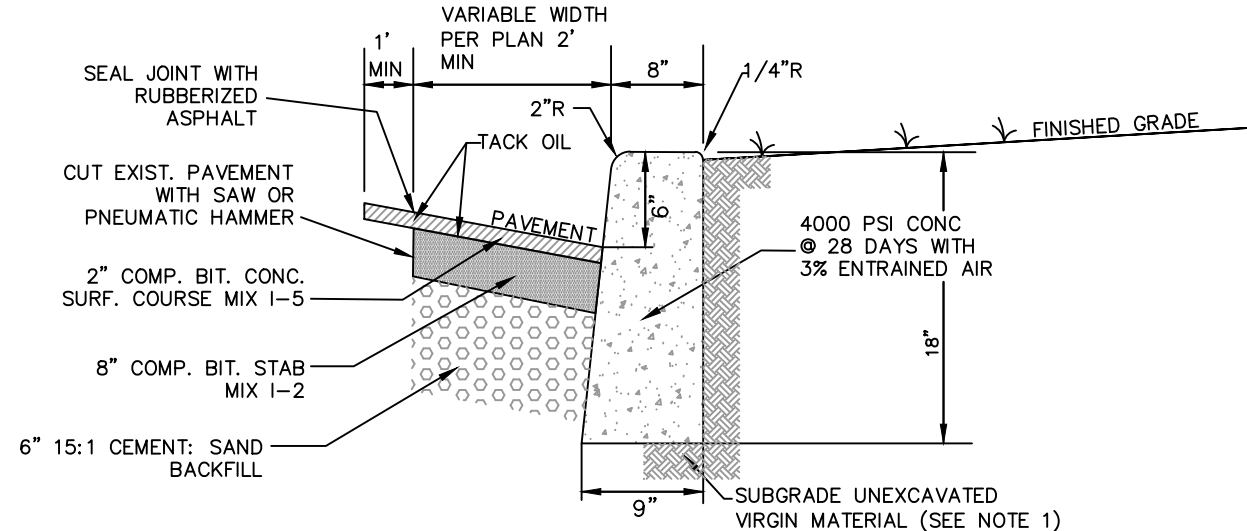
WATER MAIN AND SERVICE TRENCH IN GRASS AREA

NOTE:
N.T.S.



CONCRETE ENCASEMENT DETAIL

NOTE:
N.T.S.

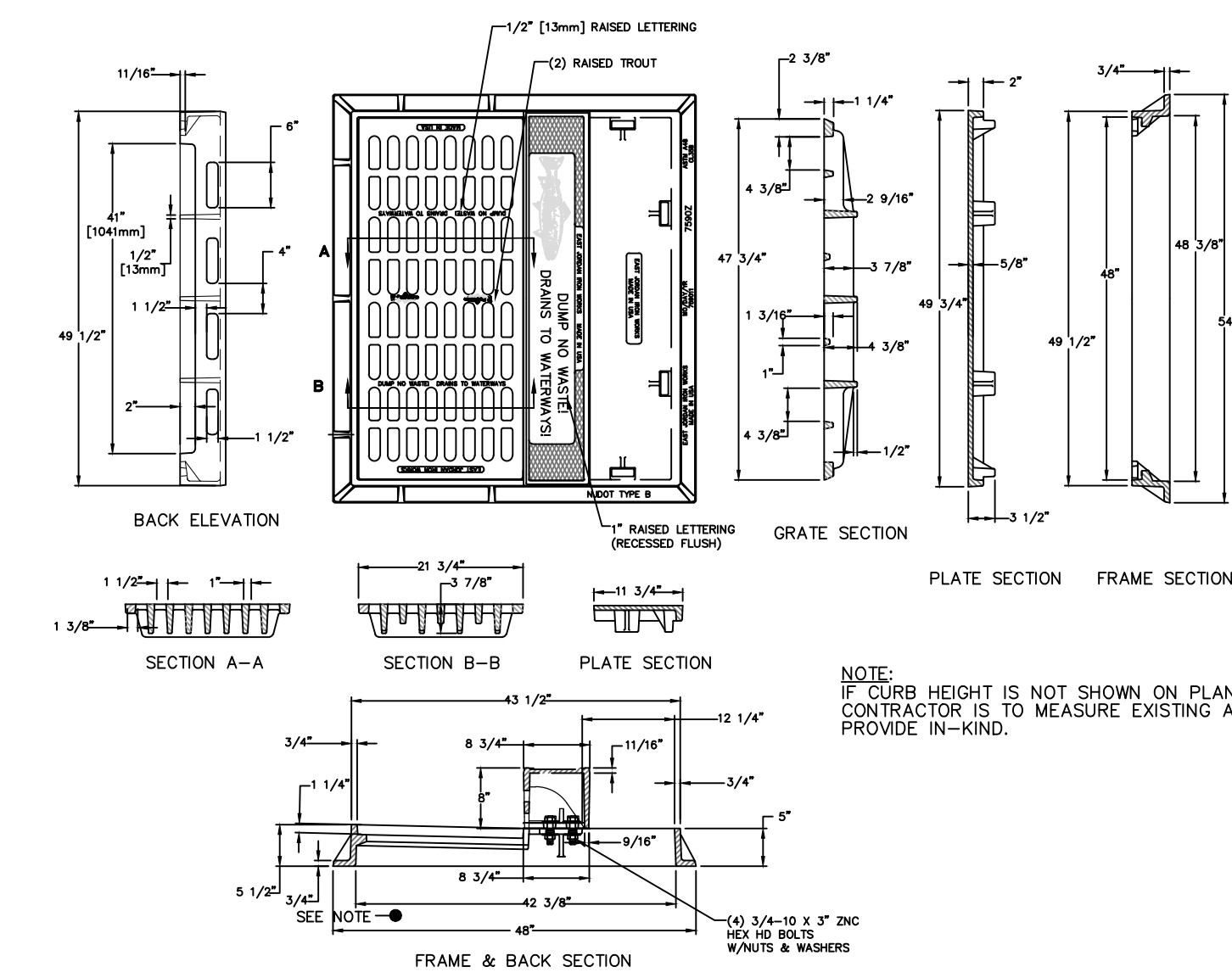
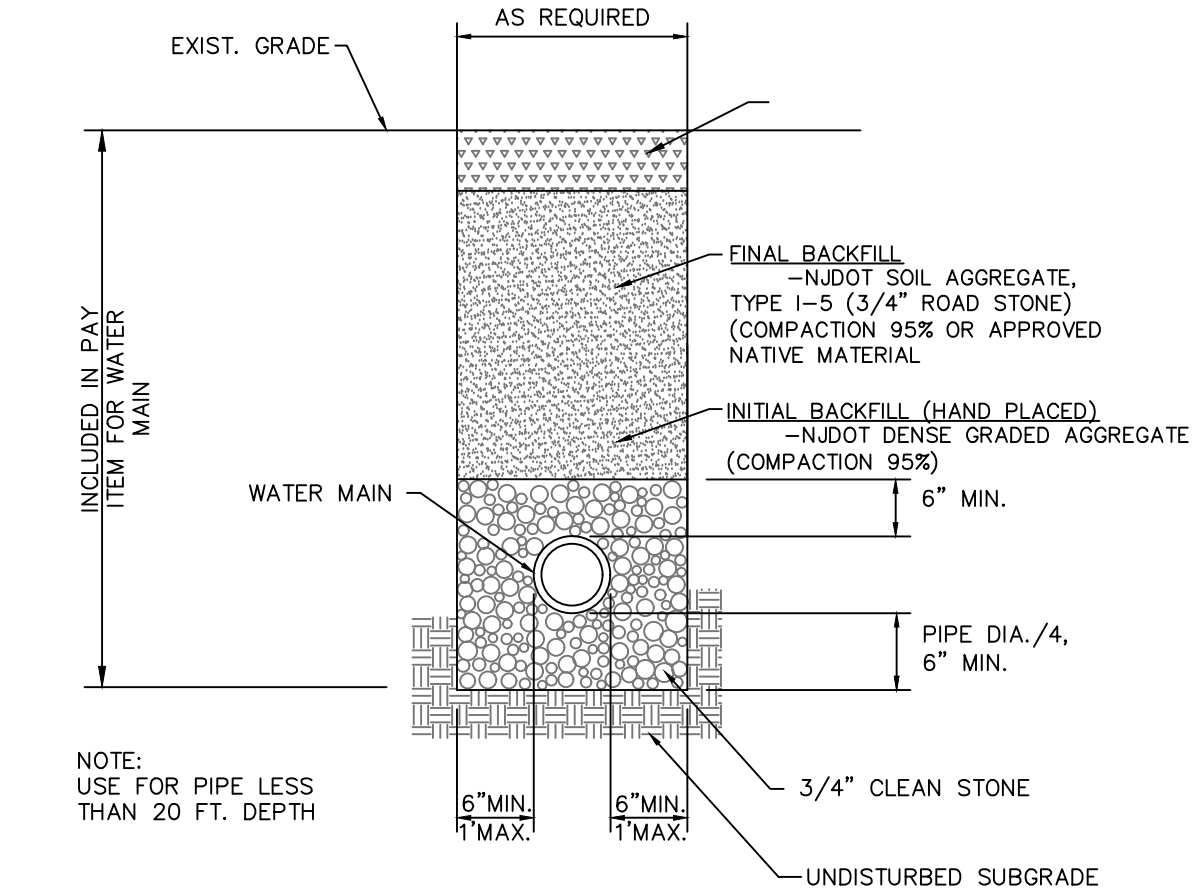


NOTES:

1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN STONE.
2. EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20' AT AND ALL STORM SEWER INLETS. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK, CONFORMING TO NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 10'. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF THE CONCRETE CURB.
3. CURB SHALL BE TEMPORARILY BACKFILLED TO FINISHED GRADE WITH SOIL BEHIND AND STONE ON THE ROAD SIDE AS SOON AS IT HAS ATTAINED SUFFICIENT SUPPORTING STRENGTH OR WITHIN 24 HOURS OF POURING (WHICHEVER IS LESS).
4. WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE CUT 2 FEET IN FRONT OF THE NEW CURB FACE IN A STRAIGHT LINE AT A 45 DEGREE ANGLE WITH A CUTTING WHEEL OR PNEUMATIC HAMMER. THE NEW PAVEMENT SHALL BE TACKED AND BUTTED TO THE EXISTING PAVEMENT, IN ACCORDANCE WITH PAVEMENT WIDENING DETAIL.
5. FACE FORMING MAY BE USED IF CONTRACTOR CAN DEMONSTRATE TO ENGINEER THAT UNDERMINING OF PAVEMENT WILL NOT OCCUR AND FURTHER SUBJECT TO APPROVAL BY COUNTY ENGINEER OR COUNTY ROADS. HOWEVER, THE UNIT PRICE BID FOR CURB SHALL INCLUDE 2' MIN. PAVEMENT REPLACEMENT.

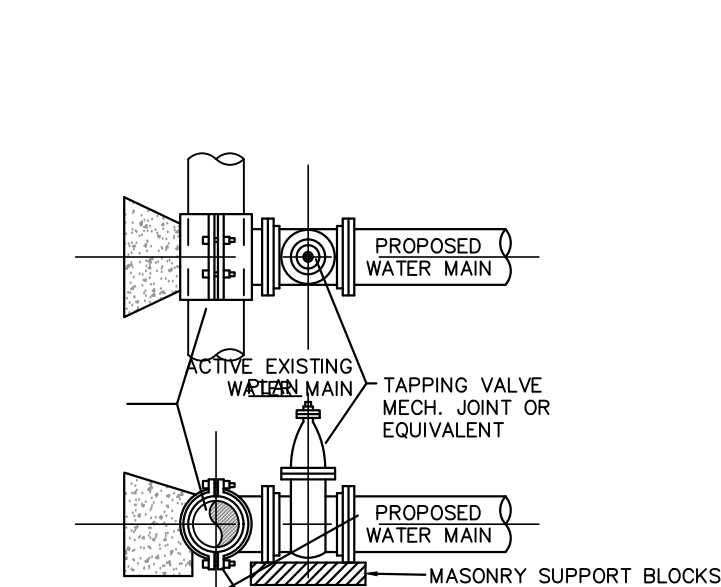
MERCER COUNTY CONCRETE CURB AND PAVEMENT SECTION

NOTE:
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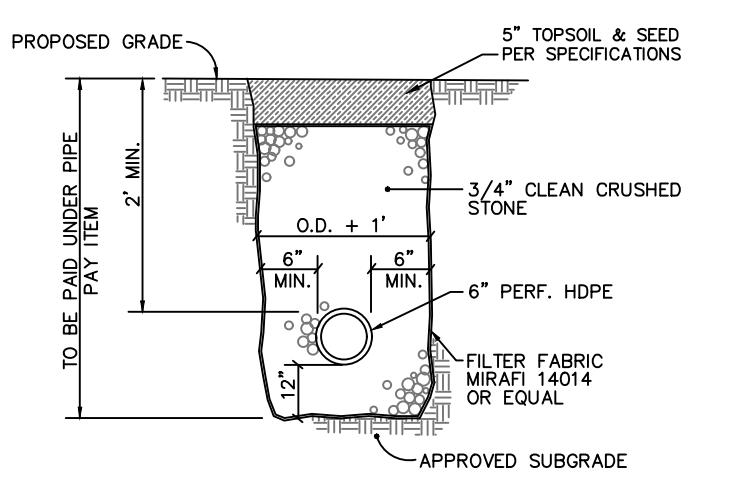
TYPE 'B' FRAME AND GRATE DETAIL

NOTE:
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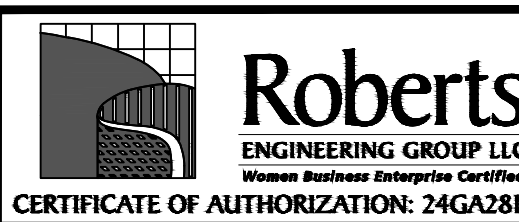
HMA PAVEMENT REPAIR DETAIL

NOTE:
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PERFORATED STORM DRAIN TRENCH DETAIL

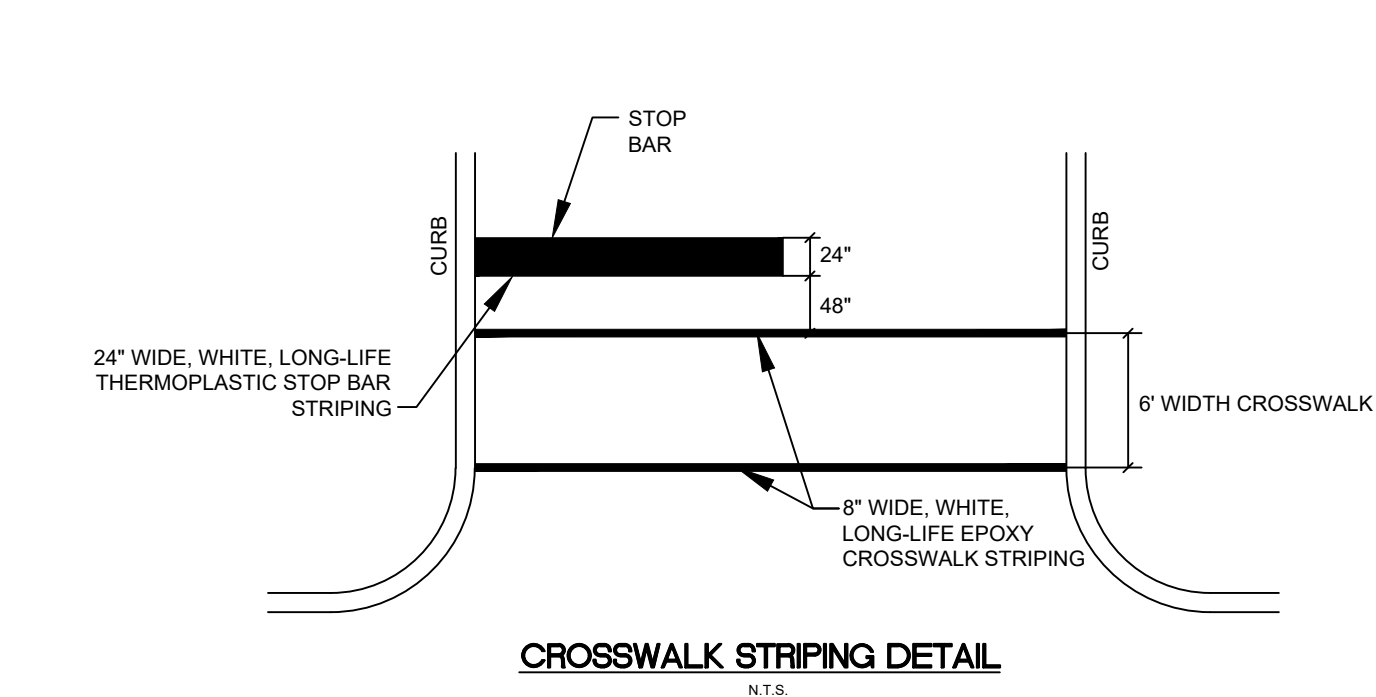
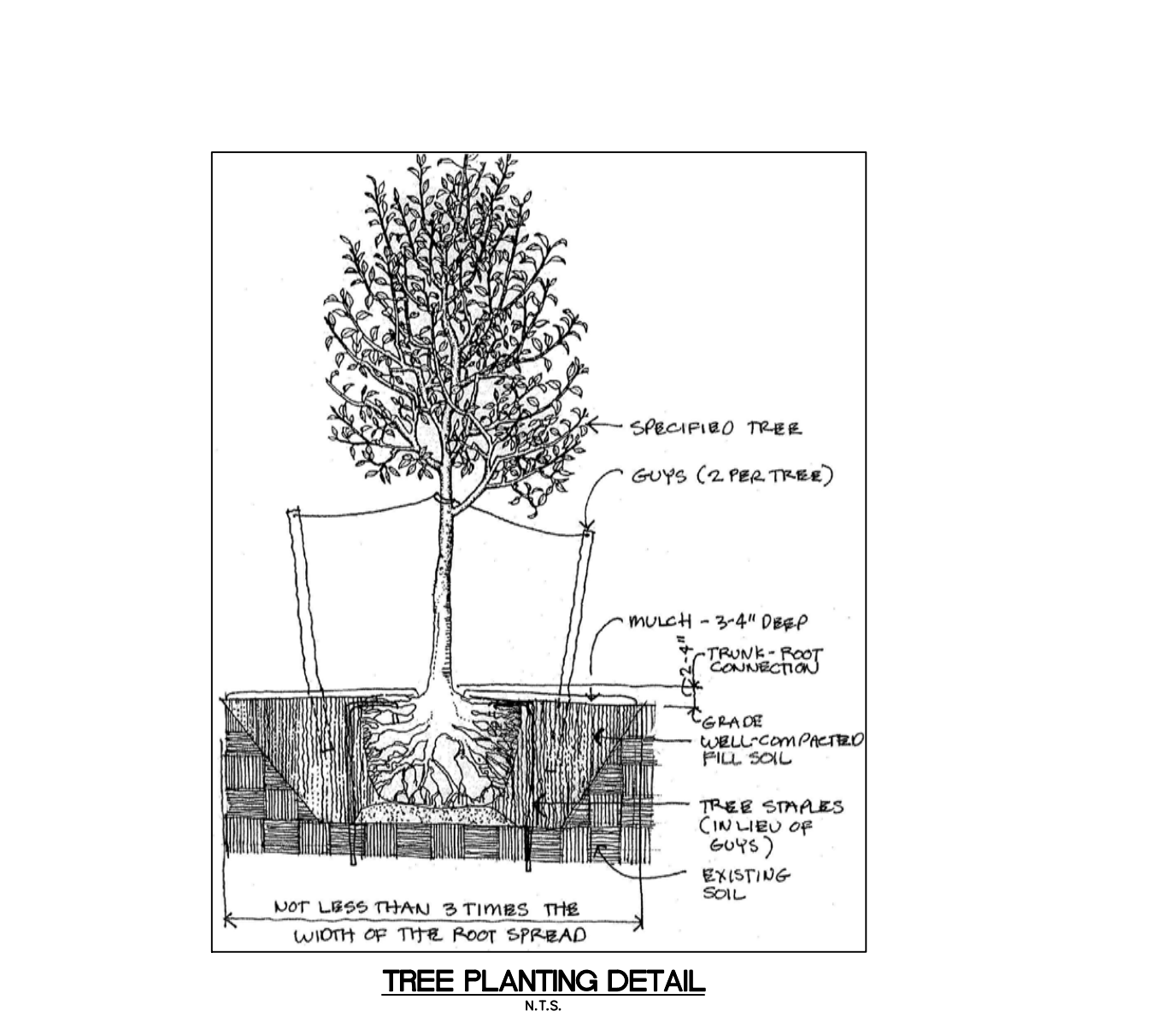
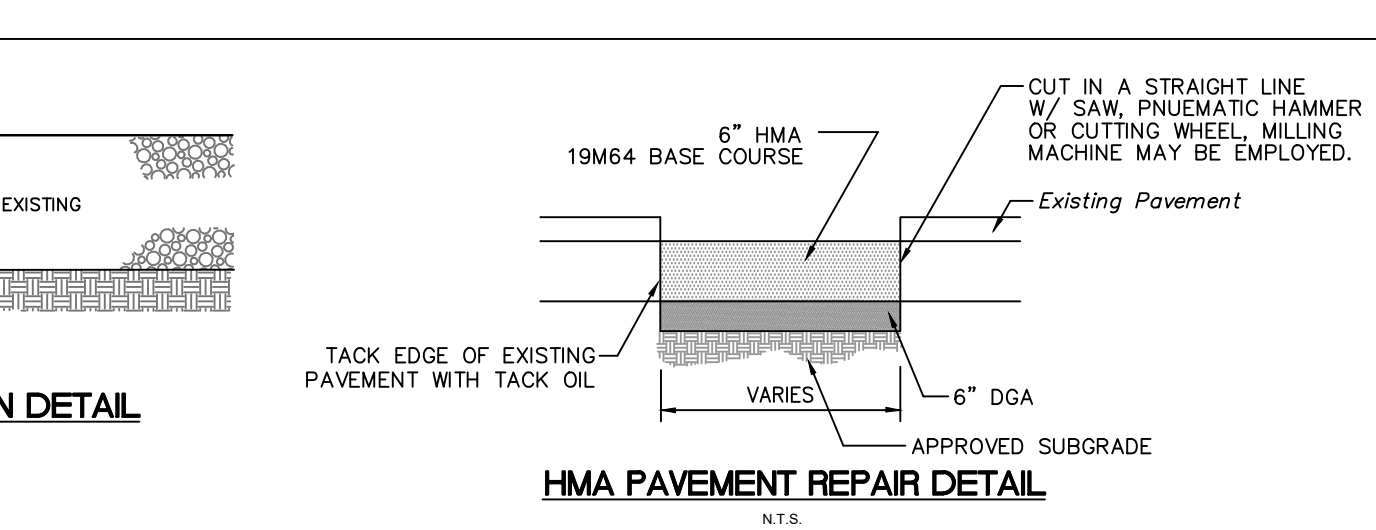
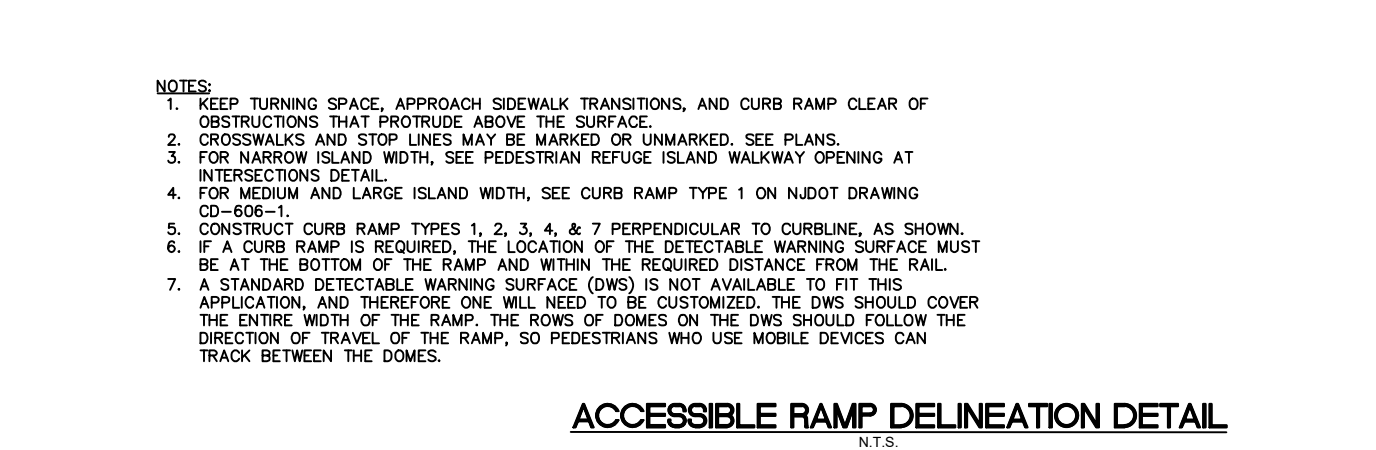
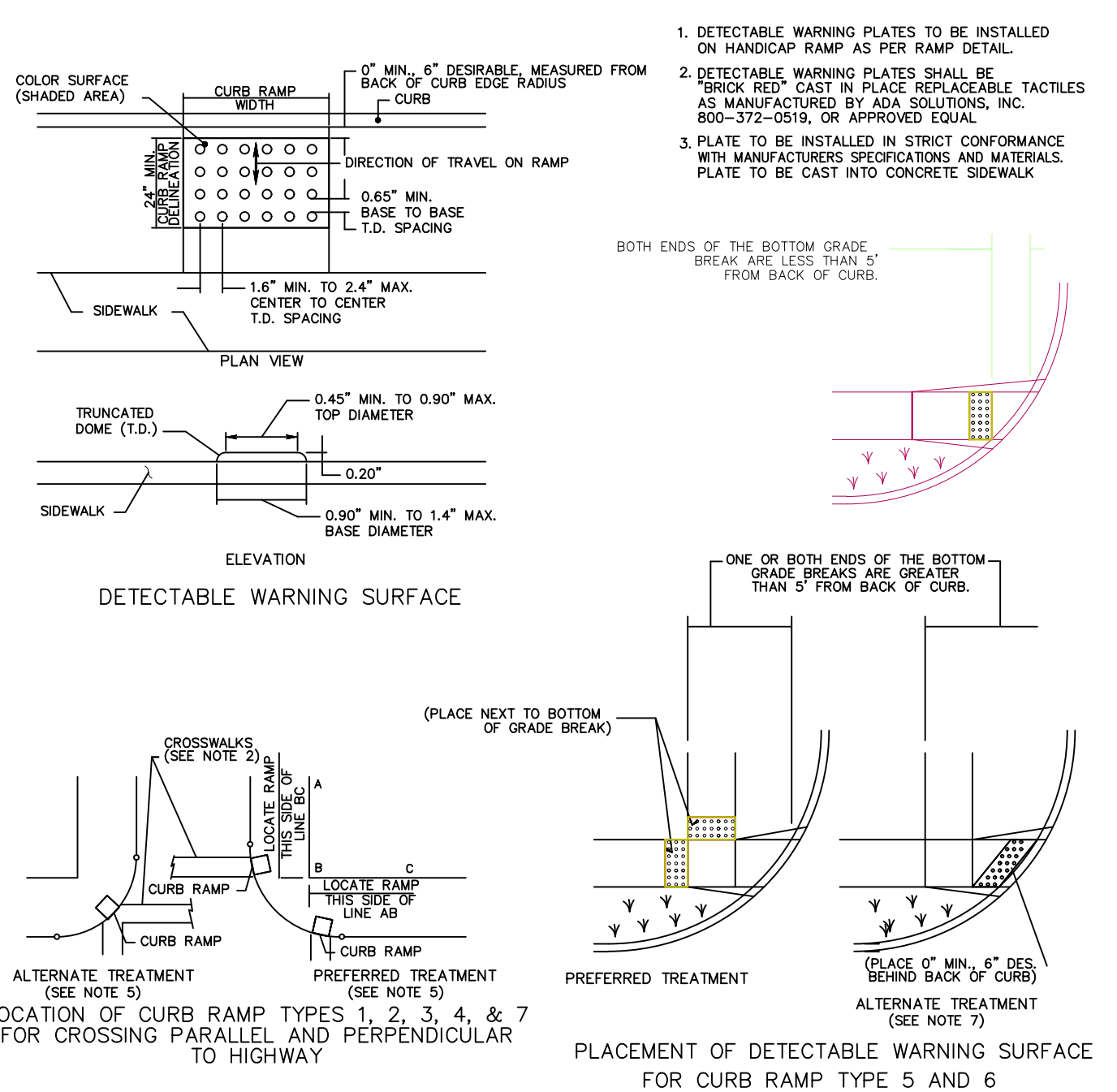
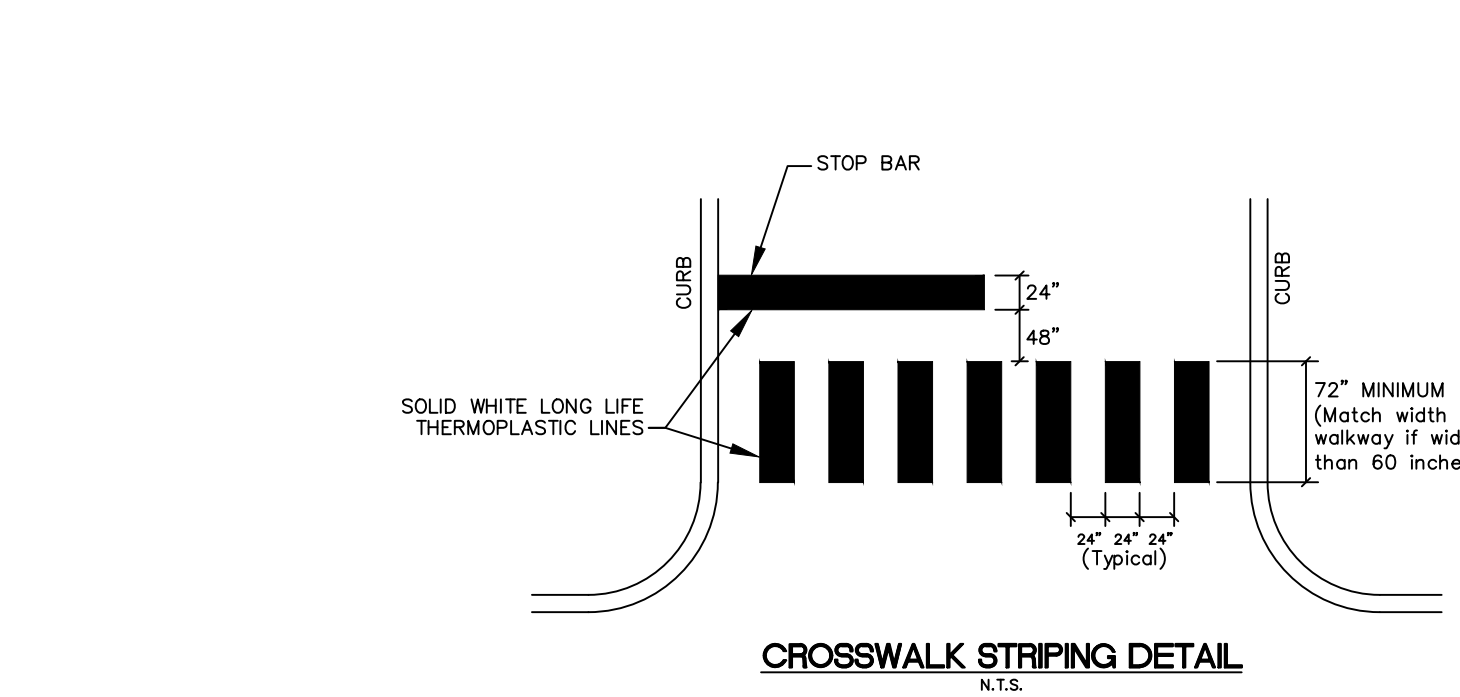
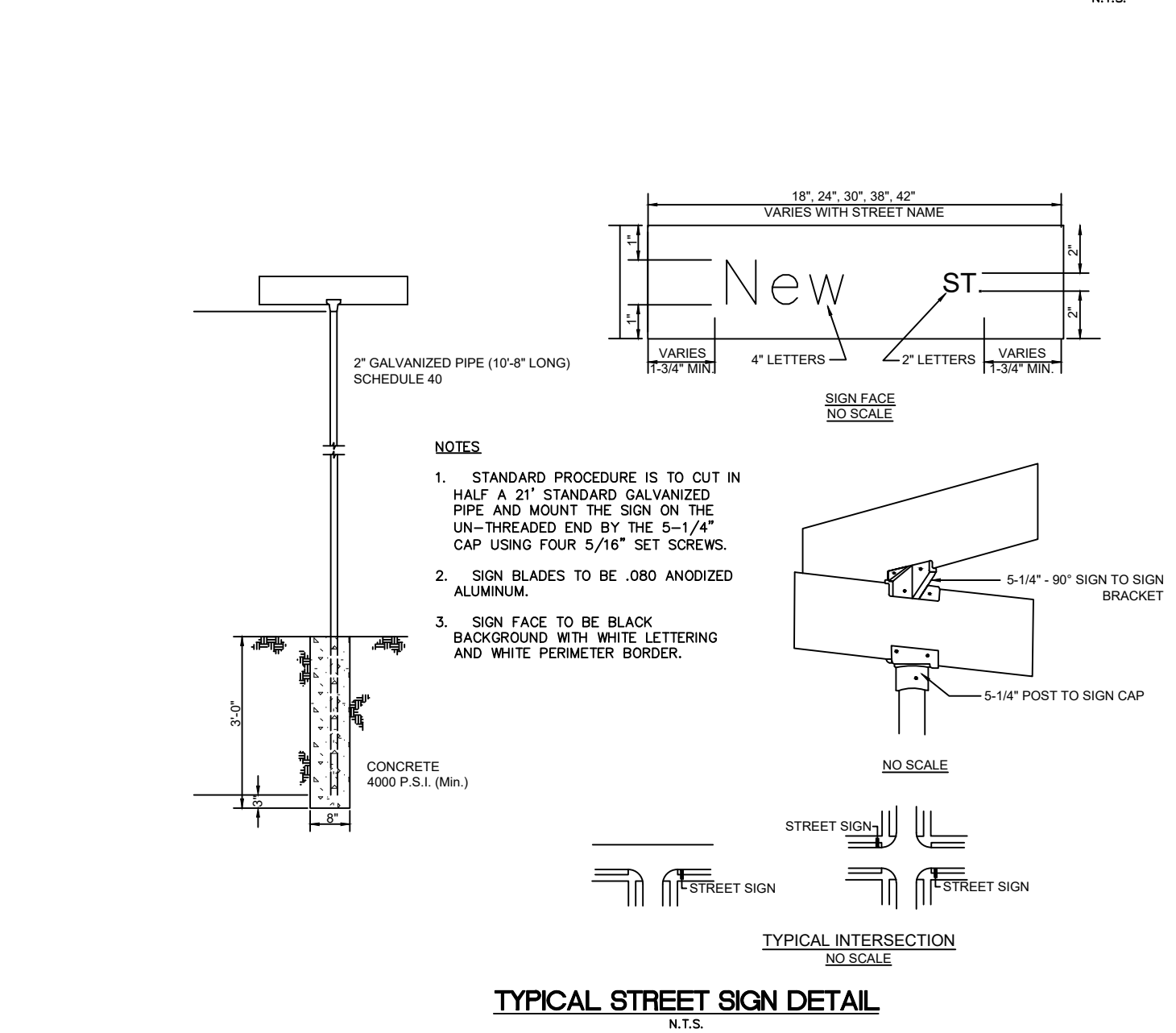
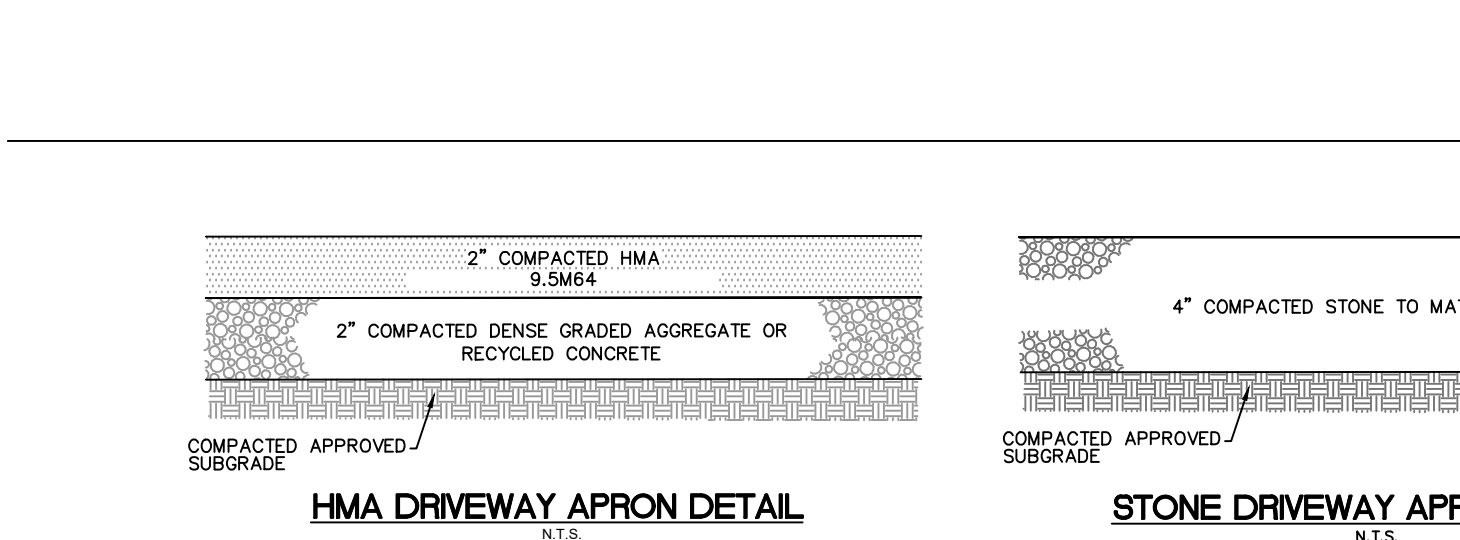
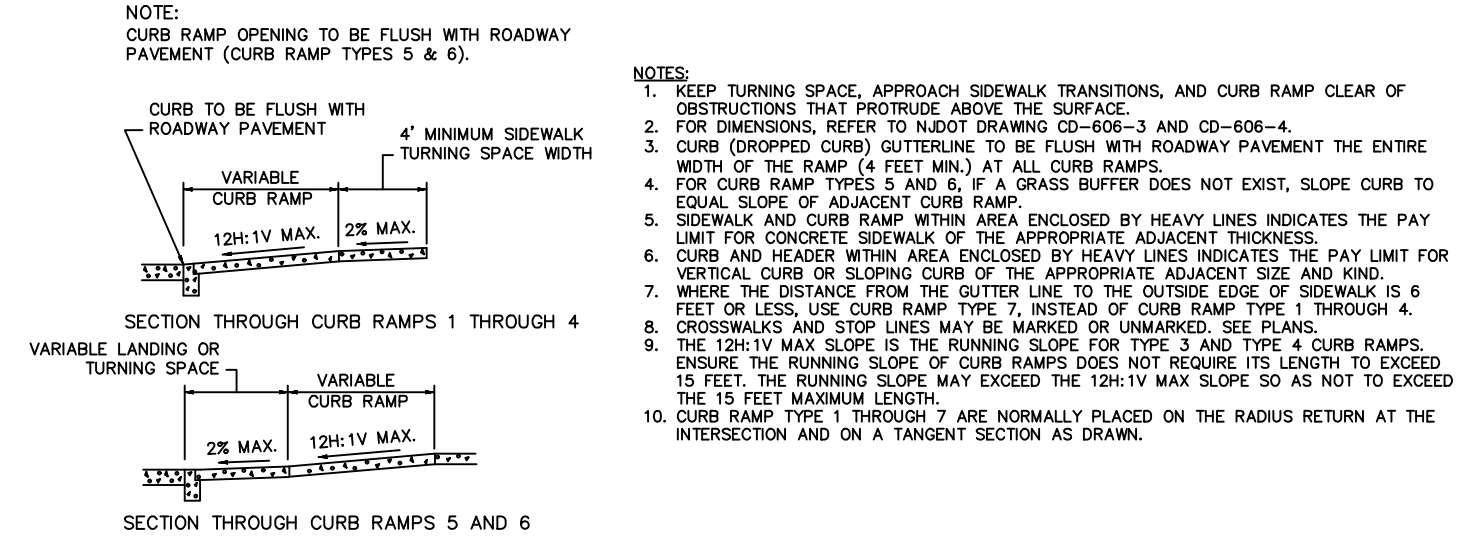
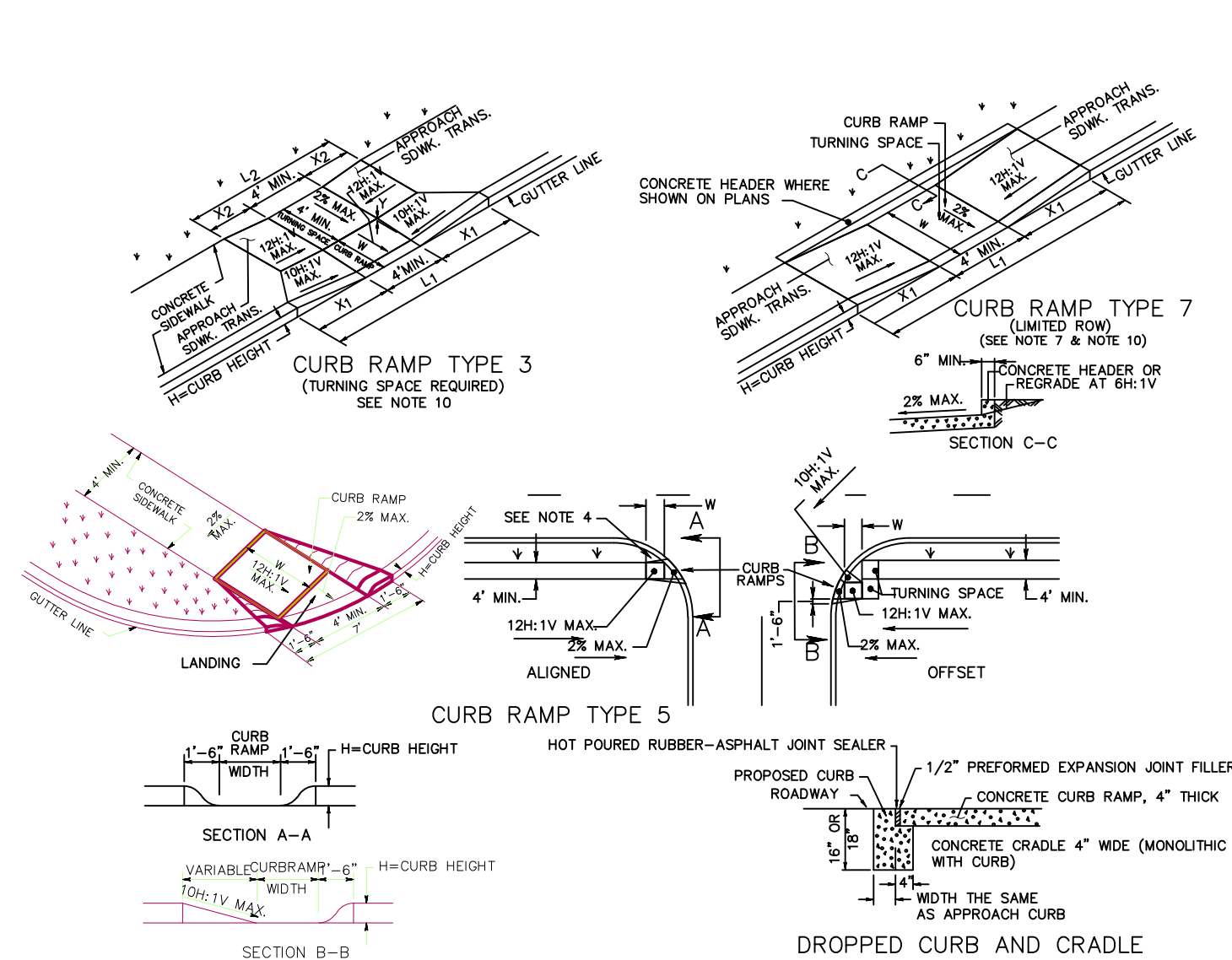
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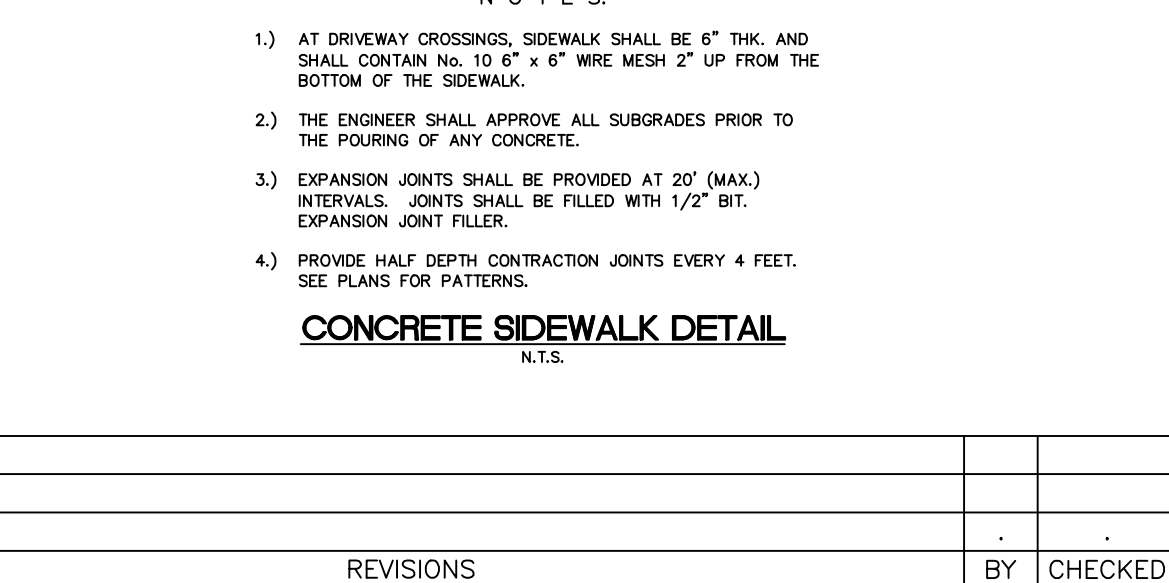
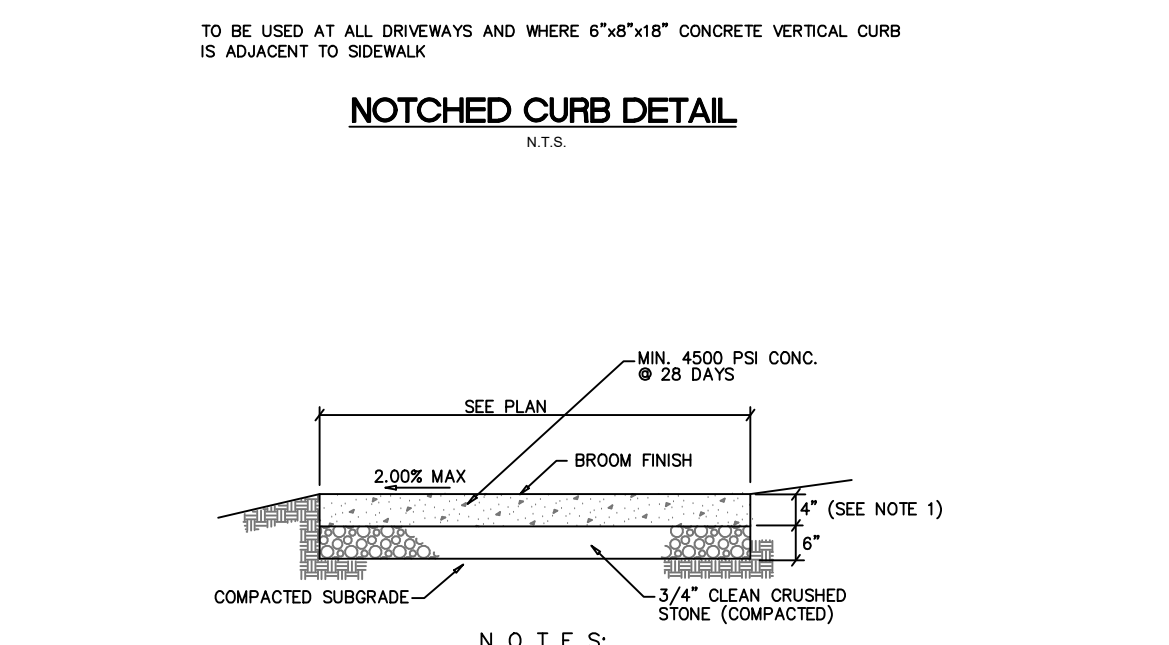
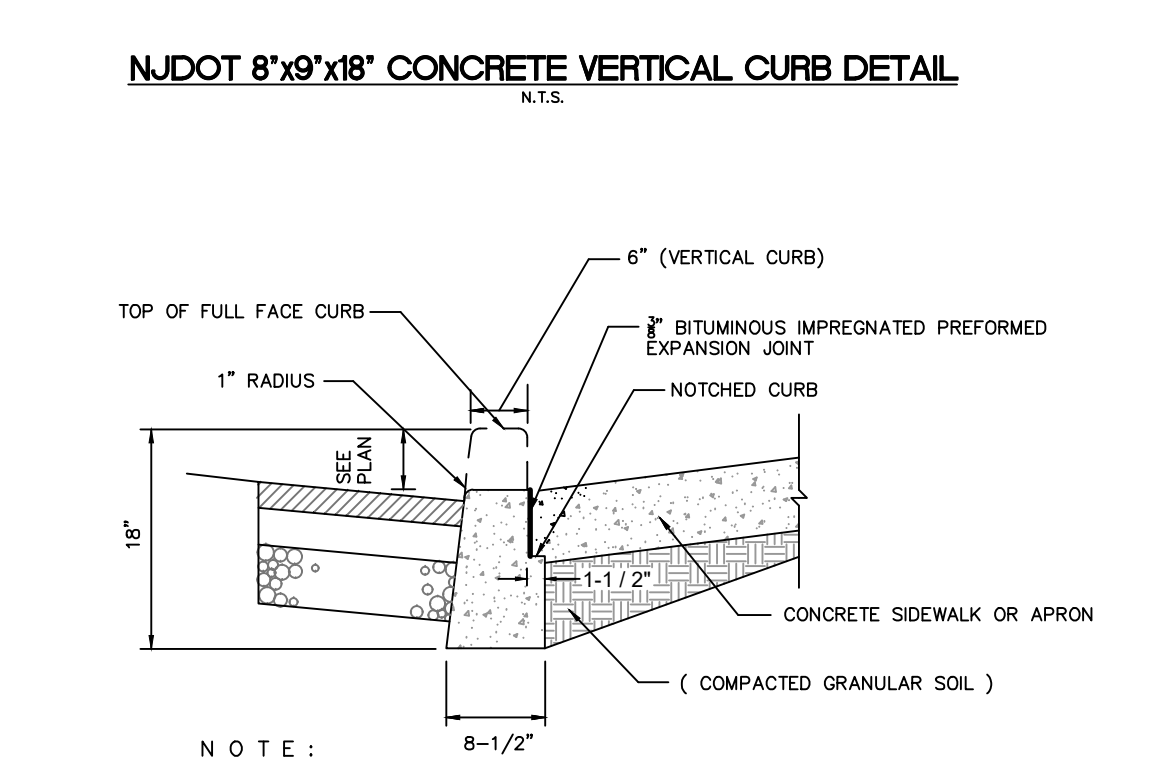
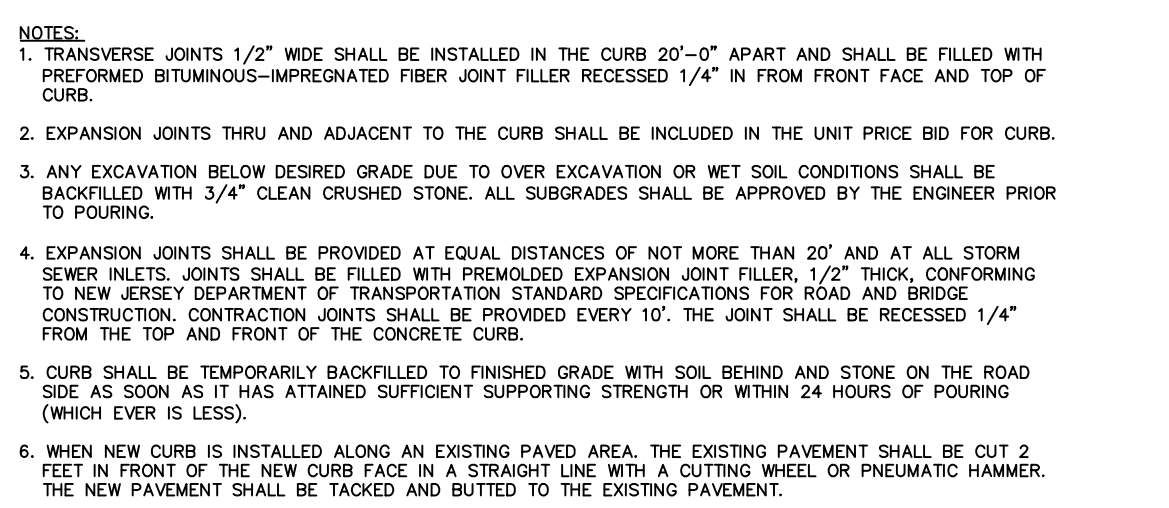
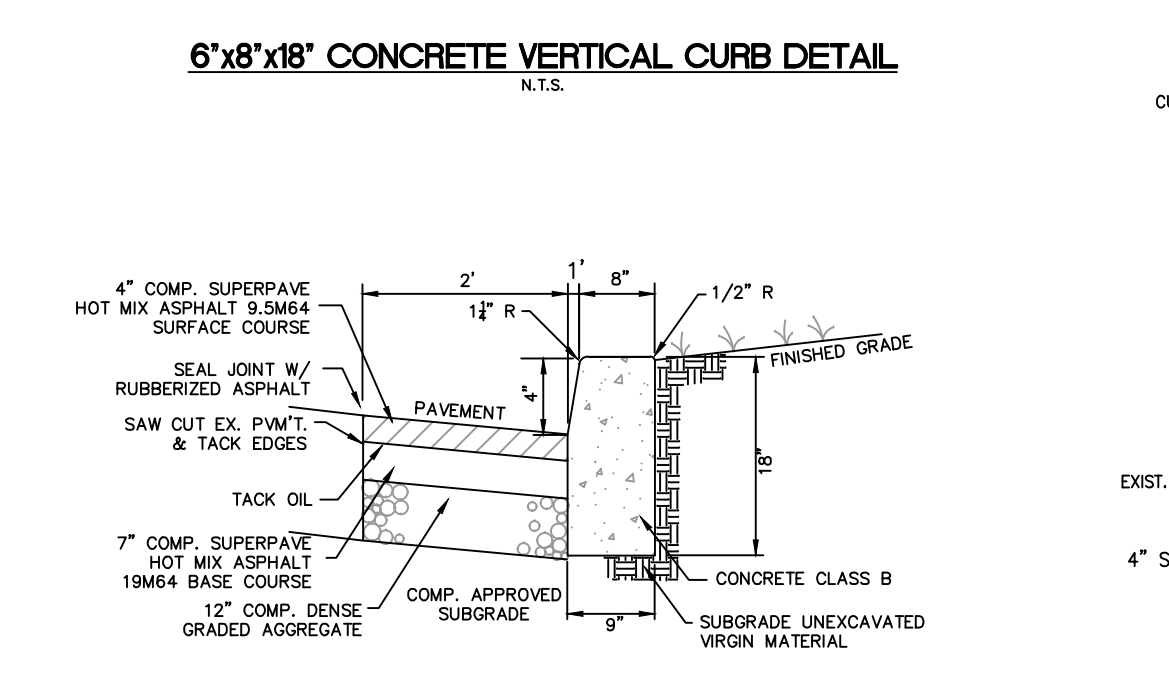
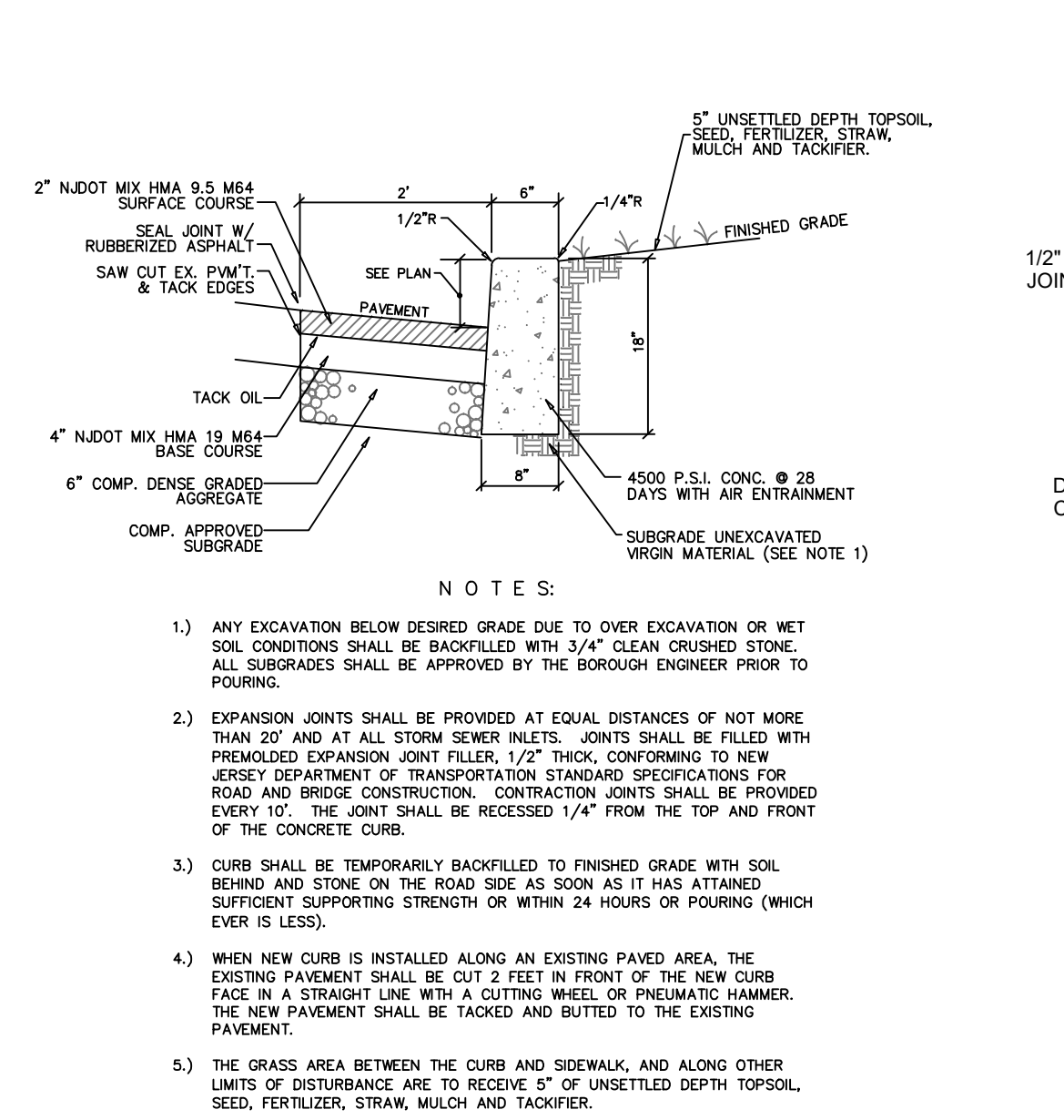
CARMELA ROBERTS, PE
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW JERSEY LIC. No. 24GE0341900

1670 Whitehorse-Hamilton Square Rd.
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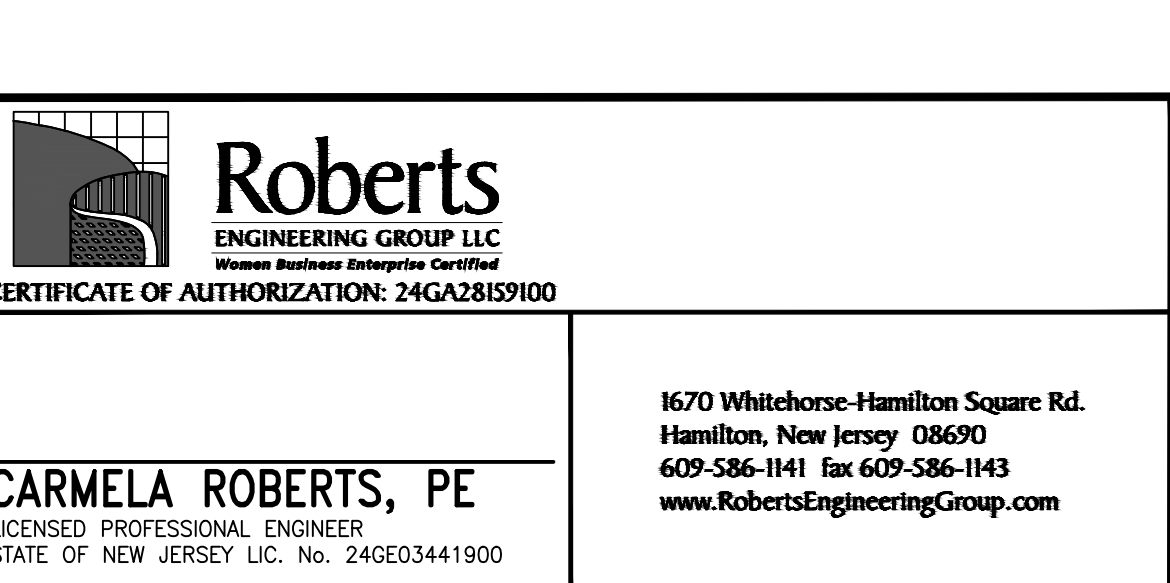
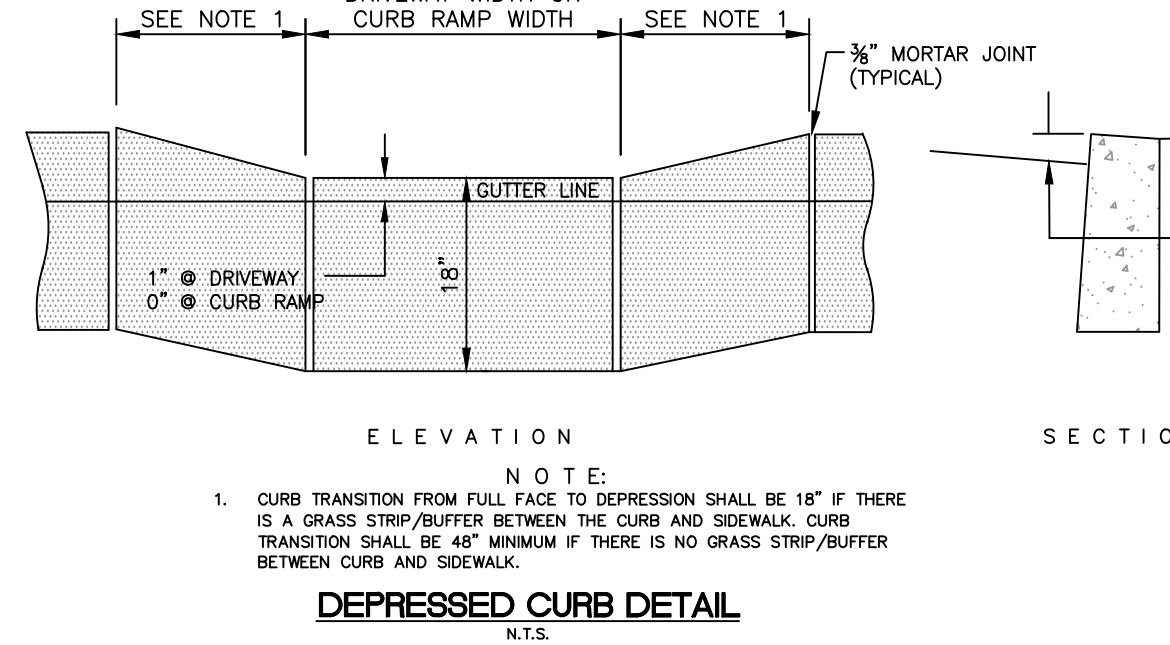
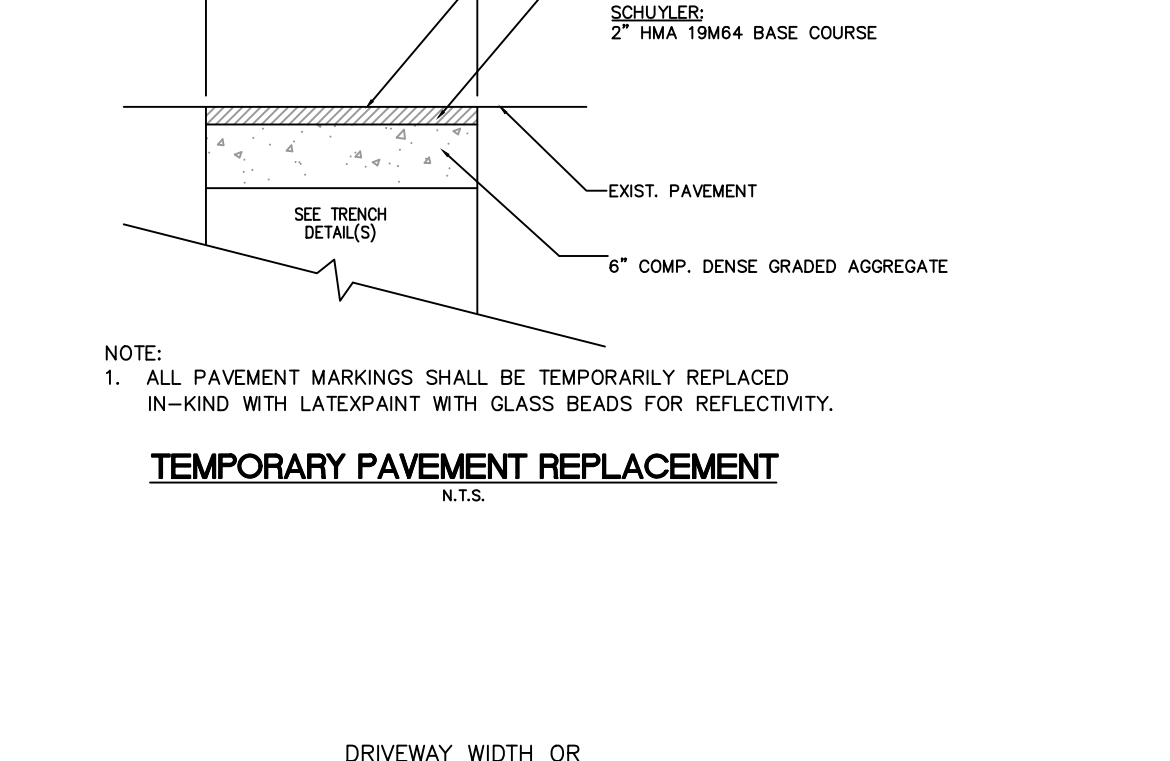
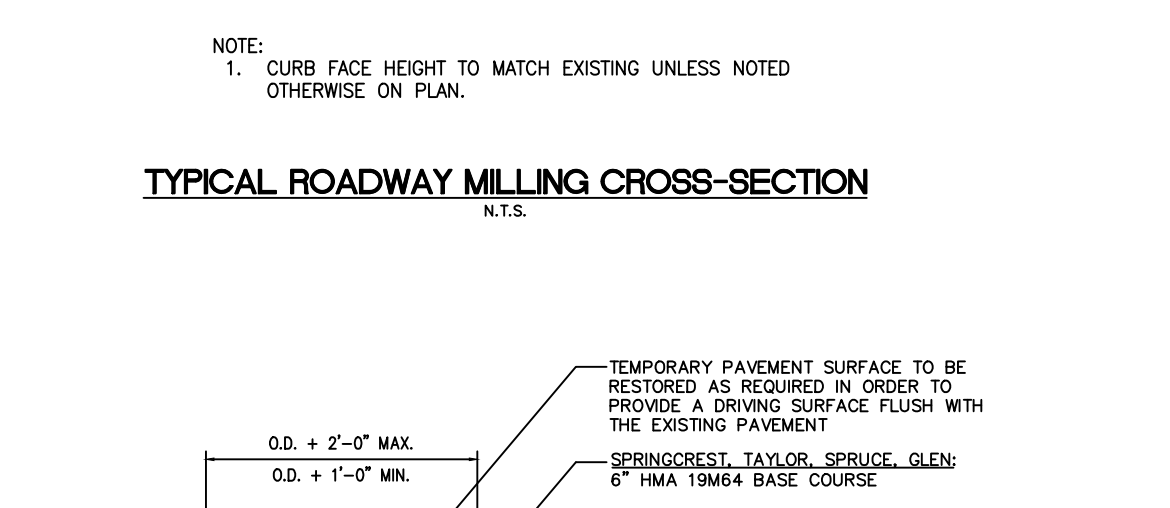
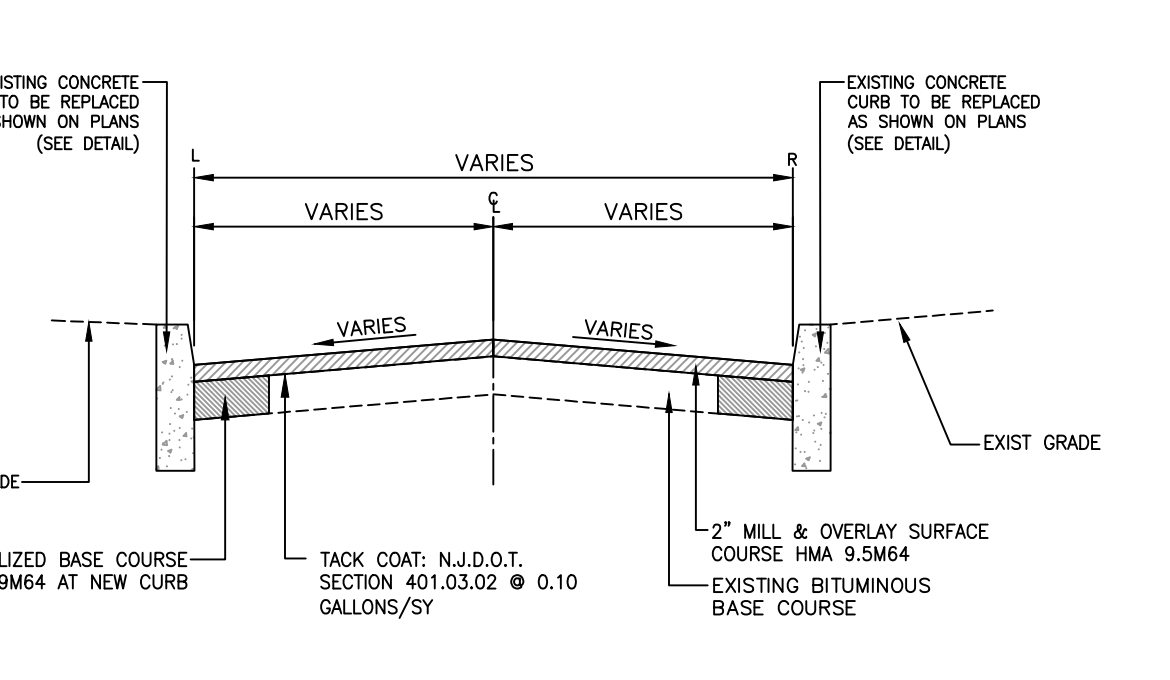
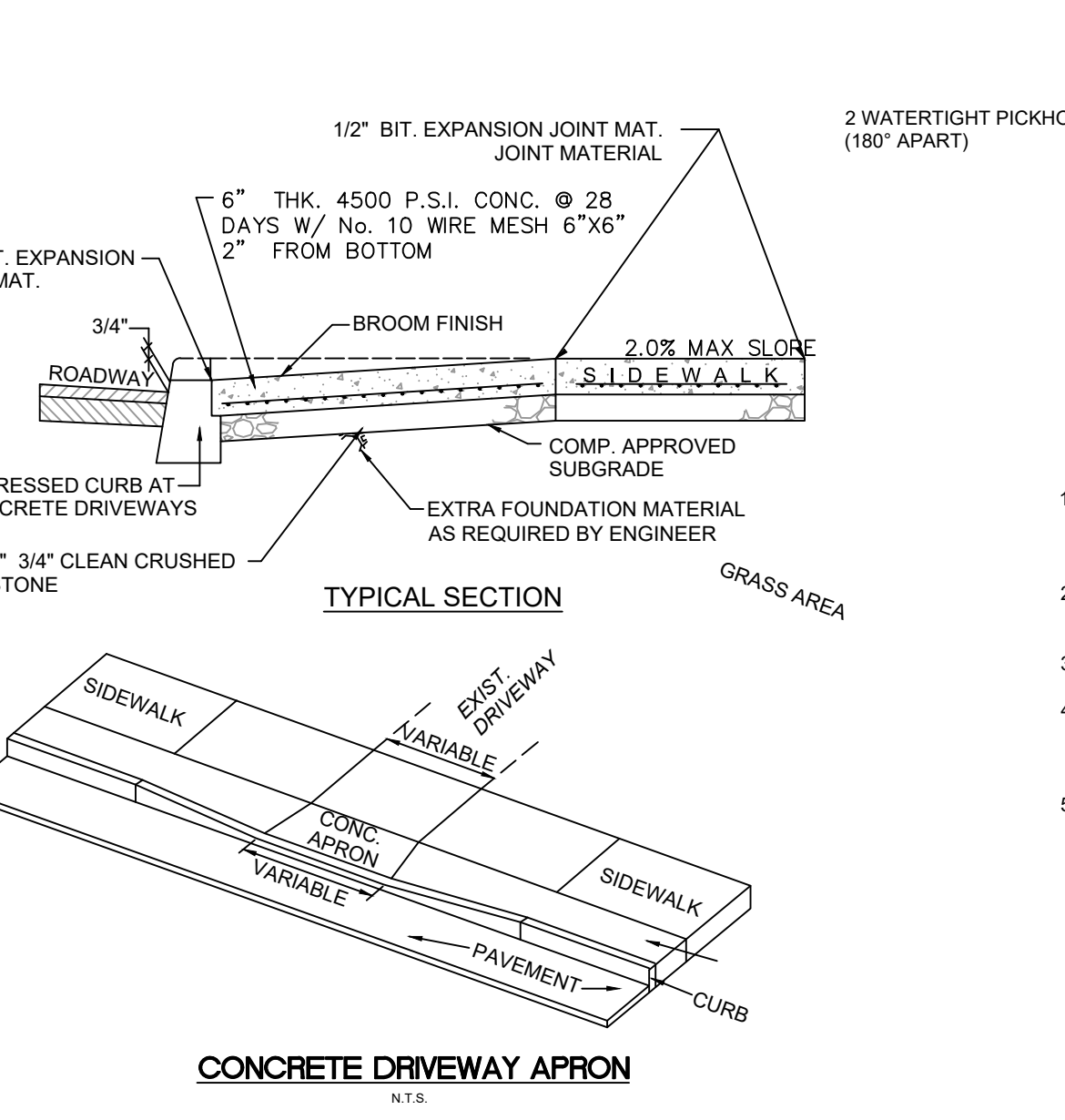
CONSTRUCTION DETAILS			
IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE			
FILE NO.	DESIGNED BY:	CHECKED BY:	DATE:
H1802	CS	CC	4/13/2022
DRAWN BY:	SCALE:	DWG. No.:	SHEET No.
JA	NONE	CD1	12 OF 15
BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY			



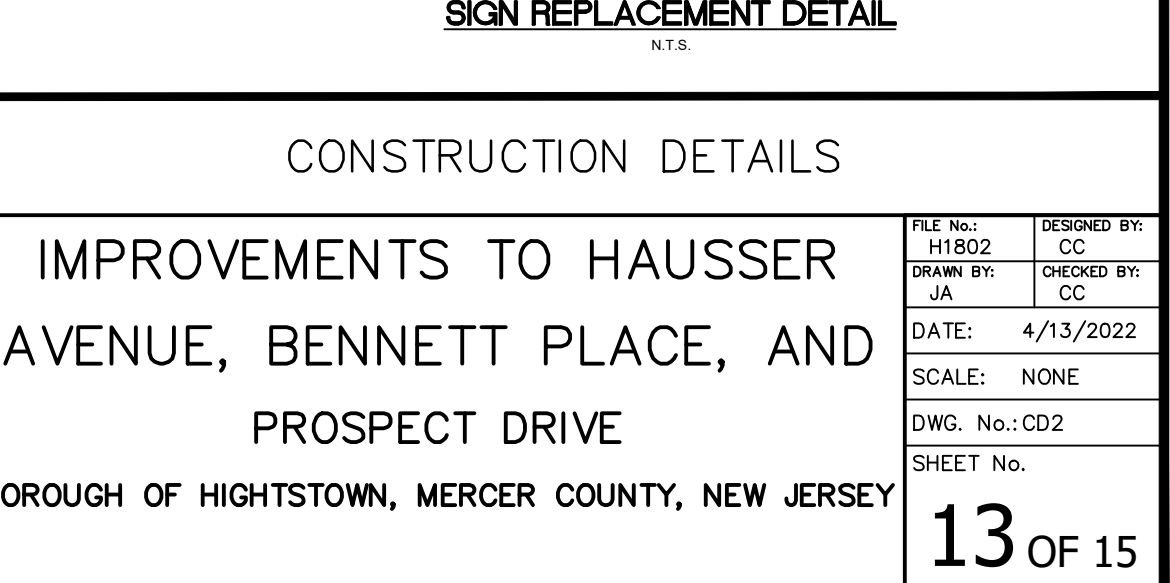
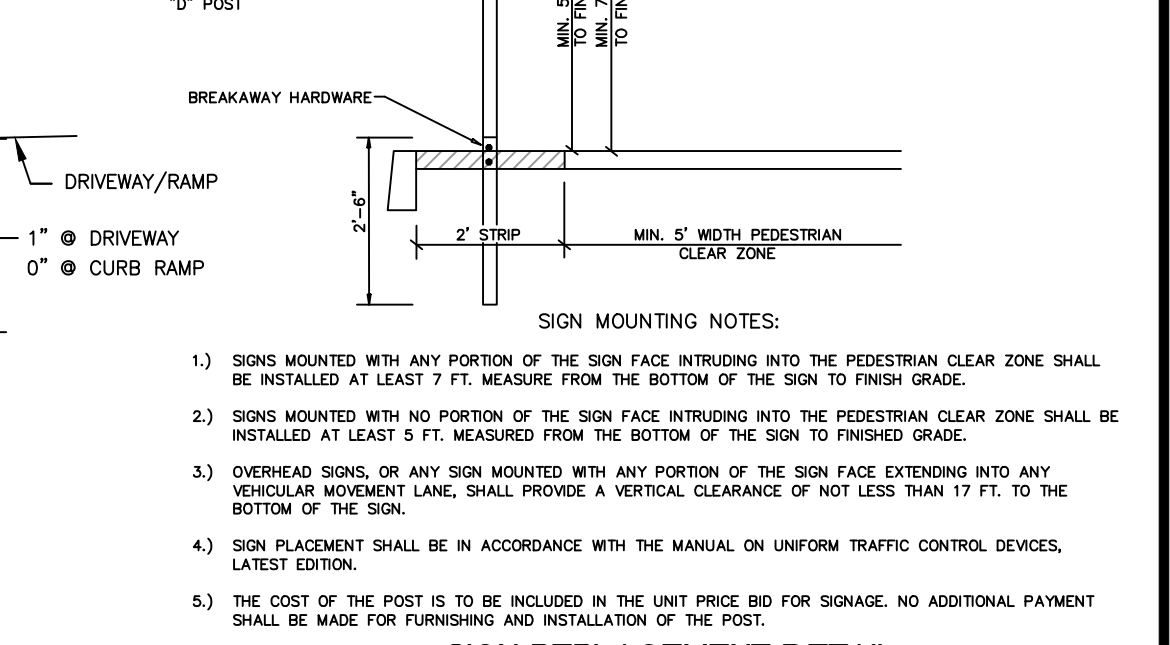
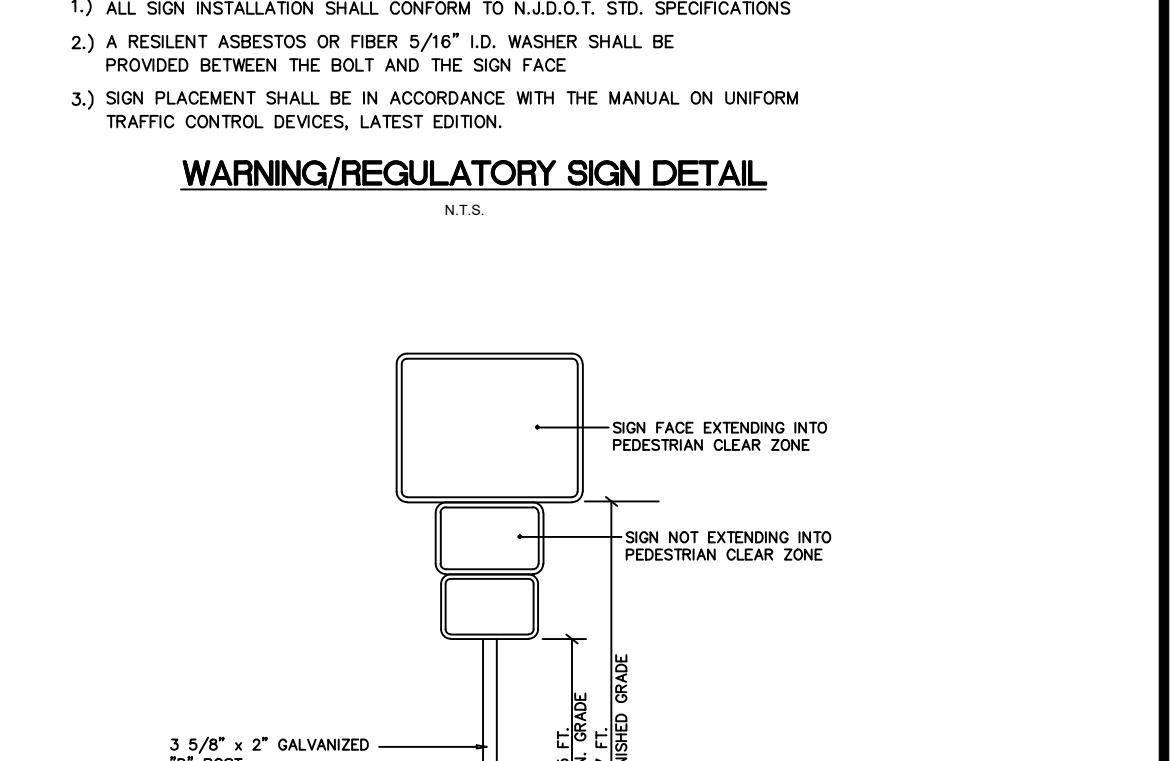
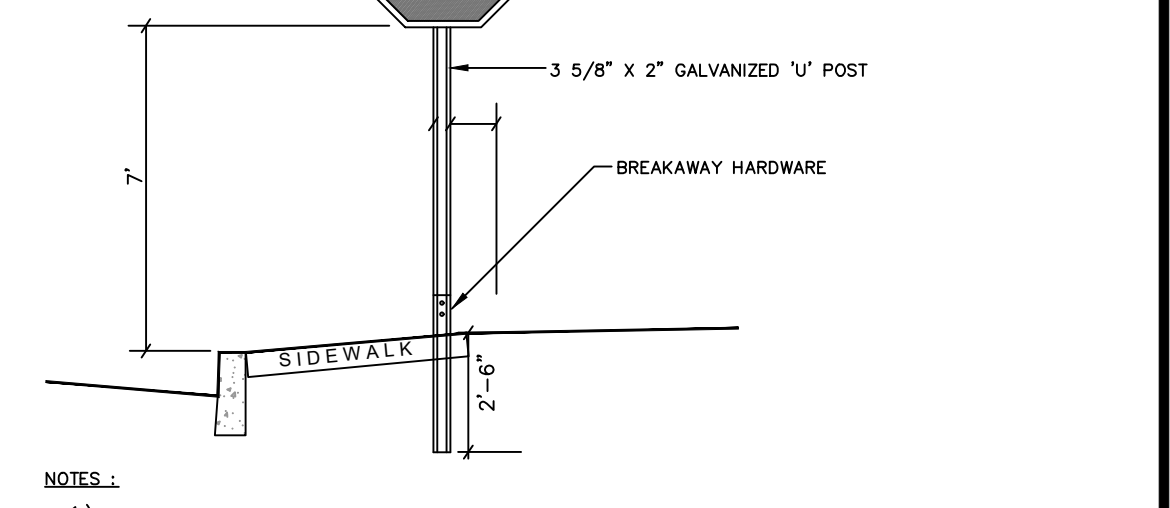
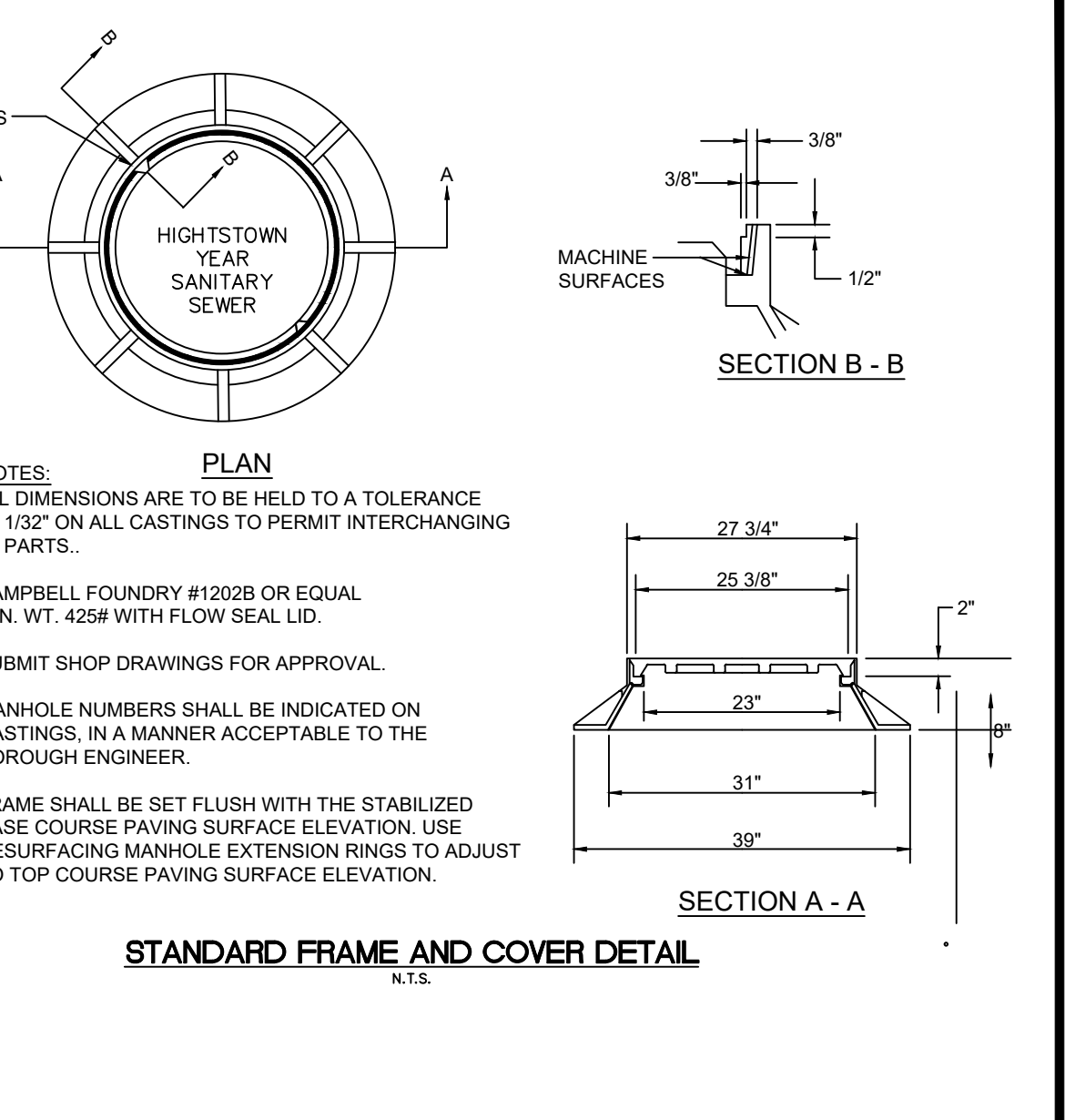
NO.	DATE	REVISIONS	BY	CHECKED



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CONSTRUCTION DETAILS

IMPROVEMENTS TO HAUSSER AVENUE, BENNETT PLACE, AND PROSPECT DRIVE

BOROUGH OF HIGHTSTOWN, MERCER COUNTY, NEW JERSEY

FILE NO: H1802	DESIGNED BY: CC
DRAWN BY: JA	CHECKED BY: CC
DATE: 4/13/2022	
SCALE: NONE	
DWG. No.: CD2	
SHEET No.	

13 OF 15