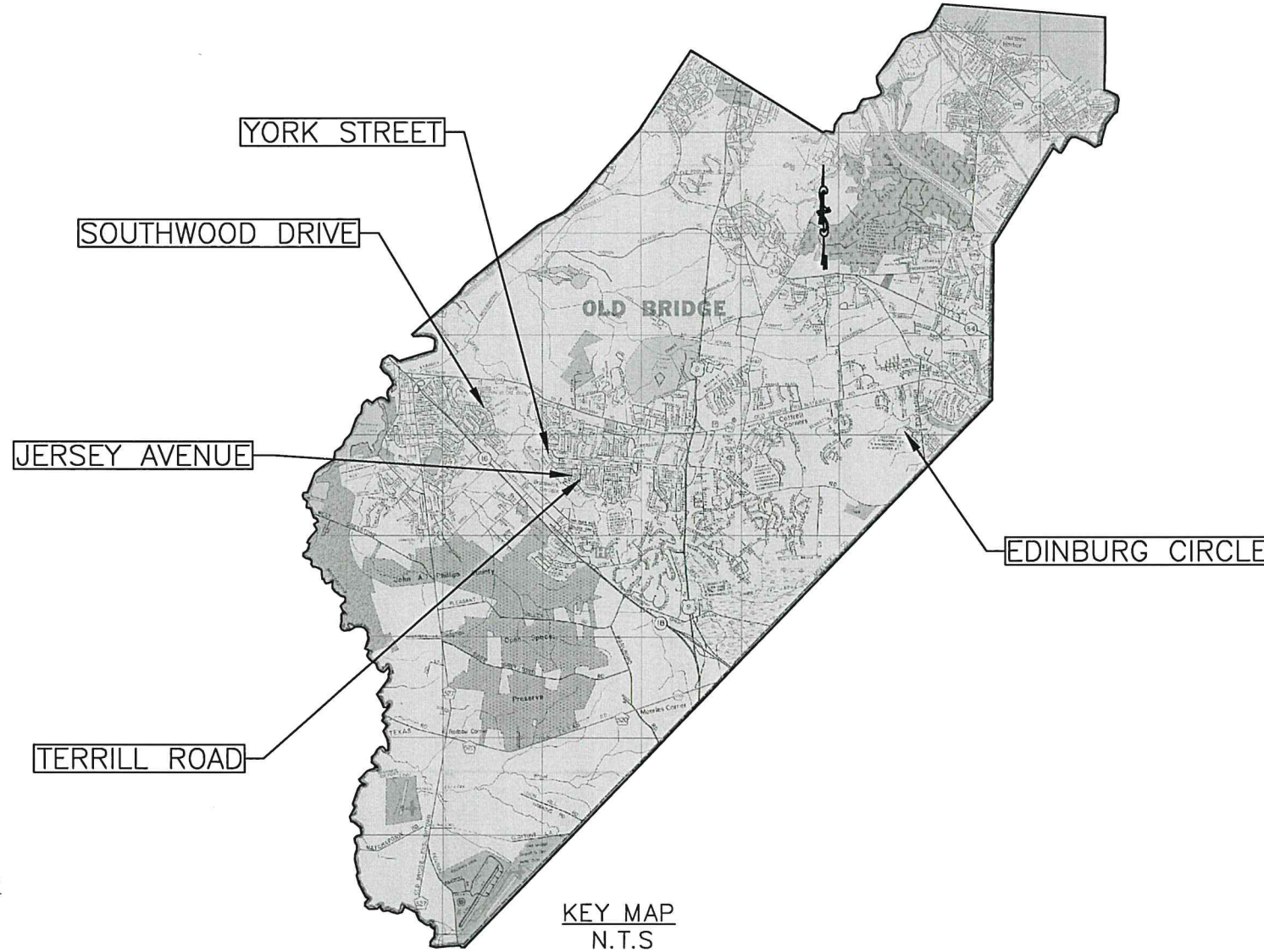


2022 ANNUAL CURB REPLACEMENT PROGRAM

CONTRACT #2022-53 TOWNSHIP OF OLD BRIDGE MIDDLESEX COUNTY, NJ



MAYOR
OWEN HENRY

COUNCIL

MARY SOHOR, COUNCIL PRESIDENT
DEBBIE WALKER, COUNCIL VICE PRESIDENT
DR. ANITA GREENBERG-BELLI
JILL DECARO
ERIK DEPALMA
KIRAN DESAI
KEVIN GARCIA
JOHN E. MURPHY, III
TONY PASKITTI

BUSINESS ADMINISTRATOR
HIMANSHU S. SHAH, BUSINESS ADMINISTRATOR

TOWNSHIP ENGINEER
NICOLE S. SHAPIRO, PE, PP, CME

TOWNSHIP CLERK
KATHRYN HUTCHINSON, RMC

THE 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AS AMENDED BY THE
SUPPLEMENTARY SPECIFICATIONS TO GOVERN.

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	ESTIMATE AND DISTRIBUTION OF QUANTITIES
3	LEGEND & GENERAL NOTES SHEET
4-9	CONSTRUCTION PLANS
10-16	CONSTRUCTION DETAILS
17	TRAFFIC CONTROL PLAN
18	SOIL EROSION SEDIMENT CONTROL NOTES & DETAILS

FILE NO. / DWG NAME: COVER SHEET
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
DESIGN BY:
JCB
SCALE:
N.T.S
DATE:
6/20/2022

**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

Nicole S. Shapiro
NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53**

COVER SHEET

JOB No:
CONTRACT No:
2022-53
SHEET:
1 OF 18

2022 ANNUAL CURB REPLACEMENT PROGRAM - ESTIMATE AND DISTRIBUTION OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	Edinburg Circle Sidewalk Replacement at Dwelling #39 Ward 2	Jersey Avenue Whole Street Ward 5	Southwood Drive Dwelling #90, #92, #94, and #96 Ward 5	Terrill Road Part - Adams Street to Cindy Street Ward 5	York Street Part - Peter Place to Utica Avenue Ward 5	If and Where Directed
1	MAINTENANCE & PROTECTION OF TRAFFIC	L.S.	1						
2	6" x 8" x 18" CONCRETE VERTICAL CURB	L.F.	4,750		1,190	203	1755	1505	97
3	GRANITE BLOCK CURB	L.F.	20			12			8
4	CONCRETE SIDEWALK, 4" THICK	S.Y.	120	23	36		45		16
5	CONCRETE SIDEWALK, REINFORCED, 6" THICK	S.Y.	60		24		12	11	13
6	CONCRETE DRIVEWAY, REINFORCED, 6" THICK	S.Y.	680		136	16	261	227	40
7	DETECTABLE WARNING SURFACE	S.Y.	4		2		2		
8	HOT MIX ASPHALT DRIVEWAY, 3" THICK	S.Y.	20			16			4
9	8" PERFORATED HIGH DENSITY POLYETHYLENE UNDERDRAIN PIPE, TYPE 'P'	L.F.	80				68		12
10	10" PERFORATED HIGH DENSITY POLYETHYLENE UNDERDRAIN PIPE, TYPE 'P'	L.F.	260				171	74	15
11	INLET, TYPE "A"	UNIT	1				1		
12	SUMP PUMP PIPE CONNECTION WITH CLEANOUT ASSEMBLY	UNIT	7				6	1	
13	SUMP PUMP PIPE CONNECTION WITHOUT CLEANOUT ASSEMBLY	UNIT	2				2		
14	BICYCLE SAFE GRATE	UNIT	7		1		4	2	
15	CURB PIECE	UNIT	11		2		5	4	
16	SET INLET TYPE "B", CASTING, WITH DRIVEWAY ACCESS PLATE	UNIT	1				1		
17	RESET INLET CASTING	UNIT	1						1
18	RECONSTRUCTED INLET, TYPE "B", USING EXISTING CASTING	UNIT	1						1
19	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	10			4			6
20	HOT MIX ASPHALT 19M64 BASE COURSE	TON	370		80	9	130	110	41
21	TREE REMOVAL, OVER 18" TO 24" DIAMETER	UNIT	1						1

FILE NO. / DWG NAME: EQDQ
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
N.T.S.
 DATE:
6/20/2022

TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978


NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 ESTIMATE AND DISTRIBUTION OF QUANTITIES

JOB No:
 CONTRACT No:
2022-53
 SHEET:
2 OF 18











FILE NO. / DWG NAME: LEGEND & GENERAL NOTES SHEET
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

GENERAL CONSTRUCTION NOTES:










1. THE CONTRACTOR SHALL NOTIFY THE OLD BRIDGE TOWNSHIP ENGINEERING AND POLICE DEPARTMENTS 72 HOURS PRIOR TO THE START OF ANY WORK.
2. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE TOWNSHIP ENGINEERING DEPARTMENT. SCHEDULING AND REVISED SCHEDULES ARE REQUIRED TO BE SUBMITTED IN WRITTEN FORM.
3. THE PROJECT SHALL BE COMPLETED WITHIN 60 DAYS OF THE NOTICE TO PROCEED.
4. CONSTRUCTION ACTIVITIES SHALL ONLY BE ALLOWED BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM AS PER OLD BRIDGE TOWNSHIP NOISE ORDINANCE. CONSTRUCTION IS ONLY PERMITTED MONDAY THROUGH FRIDAY. NO WORK SHALL COMMENCE ON A SATURDAY, SUNDAY, OR A HOLIDAY RECOGNIZED BY THE TOWNSHIP.
5. THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIAL AND EQUIPMENT WITH THE ENGINEER AND POLICE DEPARTMENT. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT, TOOLS, MATERIALS, OR OTHER CONSTRUCTION RELATED ITEMS ON PRIVATE PROPERTY. ALL COSTS FOR MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE VARIOUS BID ITEMS OF THIS CONTRACT.
6. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND MUNICIPAL TRAFFIC ORDINANCES. AT A MINIMUM, THE CONTRACTOR SHALL HAVE ALL ROAD CLOSED SIGNS WITH BARRICADES AND BARRELS AT THE PROJECT LIMITS. SEE PROJECT SPECIFICATIONS FOR ALL OTHER REQUIREMENTS OF MAINTENANCE AND PROTECTION OF TRAFFIC. THE FOLLOWING SHOULD BE NOTED BY THE CONTRACTOR:
 - 6.1. FLAGGERS ARE REQUIRED FOR ALL WORK LOCATED AT ROADWAY INTERSECTIONS. THE FLAGGER SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE. FLAGS ARE NOT PERMITTED.
 - 6.2. ENGINEER MAY HALT CONSTRUCTION AT ANY TIME IF THE CONTRACTOR FAILS TO PROVIDE ADEQUATE AND SAFE TEMPORARY TRAFFIC CONTROL.
7. LOCAL RESIDENT ACCESS AS WELL AS ACCESS FOR SCHOOL BUSES, EMERGENCY VEHICLES, GARBAGE TRUCKS, AND MAIL CARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THEIR WORK. OLD BRIDGE TOWNSHIP WILL NOT ACCEPT OR MAKE PAYMENT FOR DAMAGED, VANDALIZED, OR POOR QUALITY WORK. ALL WORK MUST BE CONSTRUCTED AND FINISHED TO THE SATISFACTION OF THE ENGINEER.
9. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AREAS DAMAGED, DISTURBED, OR AFFECTED BY CONSTRUCTION. ALL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE VARIOUS BID ITEMS OF THIS CONTRACT. RESTORATION SHALL BE DONE IMMEDIATELY OR AT THE END OF THE PROJECT, AS DIRECTED BY THE ENGINEER. THIS INCLUDES BUT IS NOT LIMITED TO:
 - 9.1. RESETTling, RELOCATING, REPAIRING, OR REPLACING ALL CURB, PAVEMENT, MAILBOXES, LAMP POSTS, DRIVEWAYS, UTILITIES, SPRINKLERS, INVISIBLE DOG FENCES, AND ANY OTHER SURROUNDING AREAS
 - 9.2. RESETTling ALL MAILBOXES TO ENSURE THE FACE OF THE MAILBOX IS SIX INCHES BEHIND THE EDGE OF PAVEMENT.
 - 9.3. TOPSOILING, SEEDING, FERTILIZING, AND MULCHING LAWN AREAS.
 - 9.4. SITE RESTORATION OF ALL OTHER AREAS IN KIND.
 - 9.5. COORDINATING WITH PROPERTY OWNERS AS NECESSARY.
10. ALL MATERIALS AND CONSTRUCTION FOR THE IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019", AS AMENDED.

11. THE CONTRACTOR SHALL REVIEW ALL SITES AND EXAMINE ALL PLAN SHEETS AND PROJECT SPECIFICATIONS PRIOR TO BIDDING, TO FAMILIARIZE THEMSELVES COMPLETELY WITH THE ACTUAL WORKING CONDITIONS, AND TO ASSURE A COMPLETE UNDERSTANDING OF ALL FACTORS TO BE CONSIDERED IN ACCOMPLISHING THE WORK AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP AND ENGINEER IMMEDIATELY OF ANY ERRORS OR DISCREPANCIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON THIS PROJECT. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL PROVISIONS OF THE SOIL EROSION AND SEDIMENT CONTROL PLANS. IF NEEDED, ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER.
13. THE CONTRACTOR SHALL MEET WITH AN OLD BRIDGE TOWNSHIP REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING AND IN-FIELD MEETING TO MARK-OUT ALL CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION.

LEGEND (EXISTING)

- | | | |
|--|--|--|
|  LIGHT POLE |  INLET |  STORM MANHOLE |
|  SANITARY MANHOLE |  HYDRANT |  CULVERT/HEADWALL |
|  UTILITY POLE |  WATER VALVE |  TELEPHONE POLE |
|  SIGN & POST | | |

LEGEND (PROPOSED):

- | | |
|---|---|
|  MILLING |  CONCRETE DRIVEWAY, REINFORCED, 6" THICK |
|  BASE REPAIR |  CONCRETE SIDEWALK, REINFORCED, 6" THICK |
|  CONCRETE SIDEWALK, 4" THICK |  HMA DRIVEWAY, 3" THICK |
|  INLET |  TOPSOIL, SEED, FERTILIZE, & STRAW MULCH |
| |  SIGN & POST |

SURVEY NOTES:

1. EXISTING ROADS, CURBING, SEWERS, DRIVEWAYS, SIDEWALK, AND OTHER EXISTING SITE FEATURES WERE TAKEN FROM TOWNSHIP AERIAL IMAGES, TOPOGRAPHICAL MAPS, TAX MAPS, AND FIELD INSPECTIONS. NOT ALL EXISTING SITE FEATURES ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS IN THE EVENT OF A DISCREPANCY AT NO ADDITIONAL COST TO THE TOWNSHIP.

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

DRAWN BY:
JCB
DESIGN BY:
JCB
SCALE:
N.T.S
DATE:
6/20/2022

**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

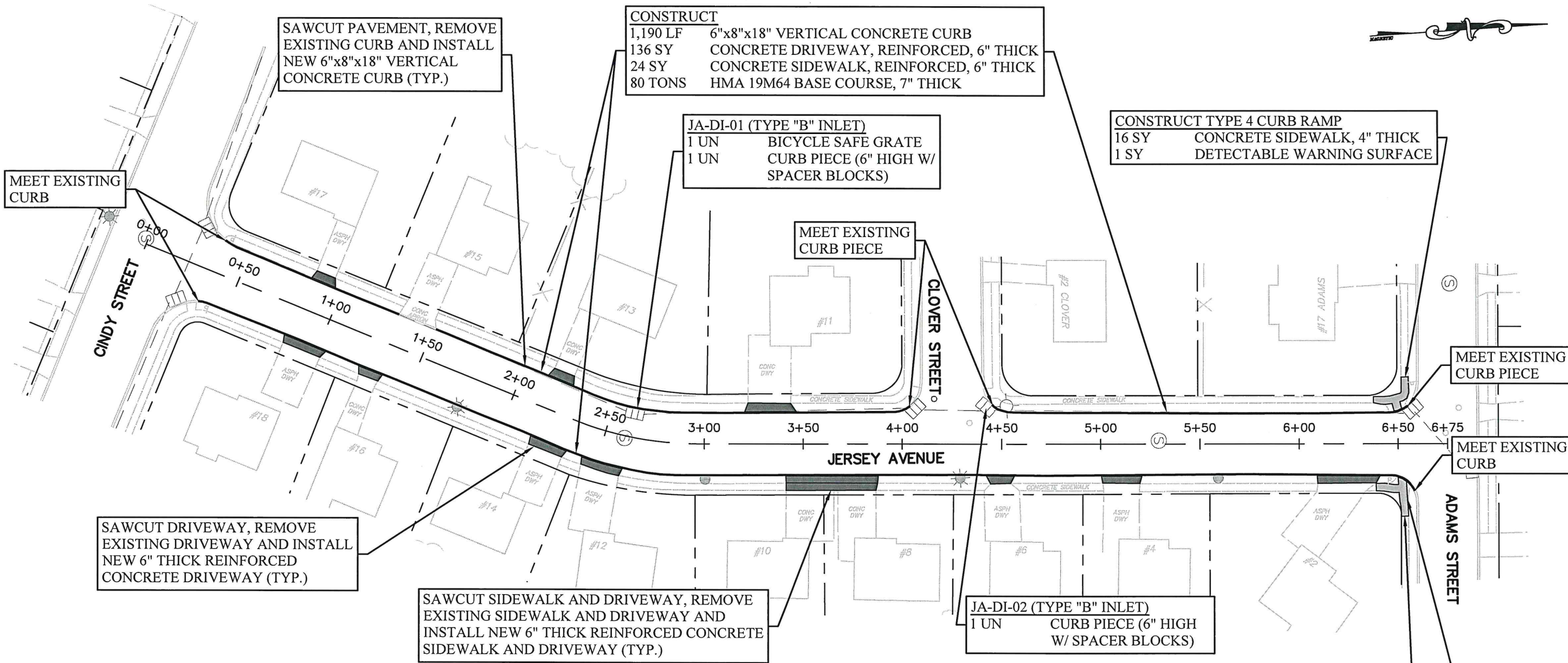

NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53**

LEGEND & GENERAL NOTES SHEET

JOB No:
CONTRACT No:
2022-53
SHEET:
3 OF 18

FILE NO. / DWG NAME: JERSEY AVENUE PLAN SHEET
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



DRIVEWAY CONSTRUCTION TABLE

#2 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 18 SY	#13 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY
#4 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY	#14 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY
#6 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY	#16 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY
#8 & #10 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 25 SY CONC. SIDEWALK, REINF., 6" THICK: 24 SY	#17 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY
#11 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 14 SY	#18 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 13 SY
#12 JERSEY AVENUE	CONC. DRIVEWAY, REINF., 6" THICK: 12 SY		

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
1"=50'
 DATE:
6/20/2022

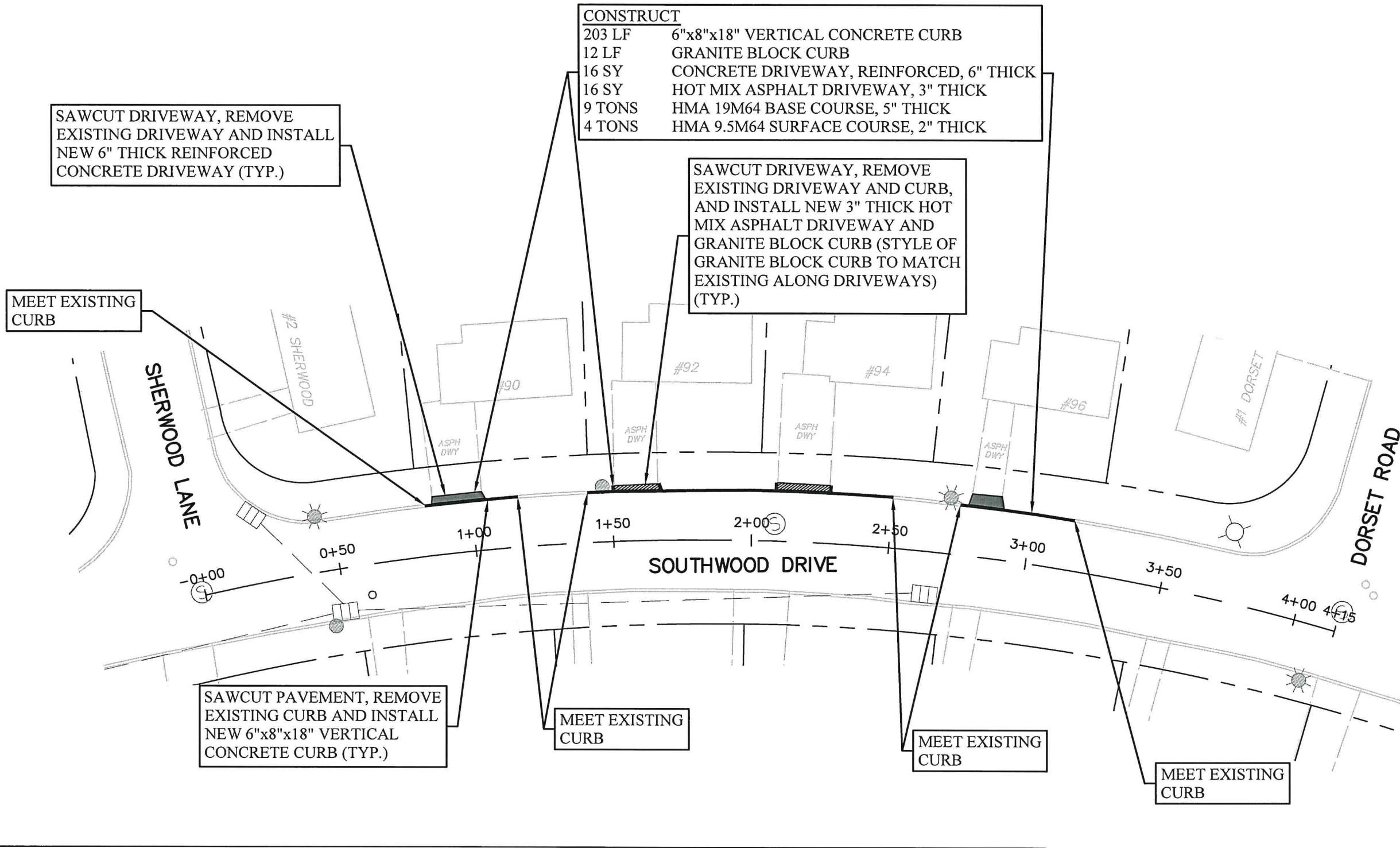
**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole S. Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 JERSEY AVENUE
 CONSTRUCTION PLAN**

JOB No:
 CONTRACT No:
2022-53
 SHEET:
4 OF 18

FILE NO. / DWG NAME: SOUTHWOOD DRIVE PLAN SHEET
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



CONSTRUCT	
203 LF	6"x8"x18" VERTICAL CONCRETE CURB
12 LF	GRANITE BLOCK CURB
16 SY	CONCRETE DRIVEWAY, REINFORCED, 6" THICK
16 SY	HOT MIX ASPHALT DRIVEWAY, 3" THICK
9 TONS	HMA 19M64 BASE COURSE, 5" THICK
4 TONS	HMA 9.5M64 SURFACE COURSE, 2" THICK



DRIVEWAY CONSTRUCTION TABLE

#90 SOUTHWOOD DRIVE	6"x8"x18" VERTICAL CONC. CURB: 32 LF CONC. DRIVEWAY, REINF., 6" THICK: 8 SY	#94 SOUTHWOOD DRIVE	6"x8"x18" VERTICAL CONC. CURB: 52 LF GRANITE BLOCK CURB: 6 LF HMA DRIVEWAY, 3" THICK: 8 SY
#92 SOUTHWOOD DRIVE	6"x8"x18" VERTICAL CONC. CURB: 63 LF GRANITE BLOCK CURB: 6 LF HMA DRIVEWAY, 3" THICK: 8 SY	#96 SOUTHWOOD DRIVE	6"x8"x18" VERTICAL CONC. CURB: 56 LF CONC. DRIVEWAY, REINF., 6" THICK: 8 SY

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
1"=40'
 DATE:
6/20/2022

**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

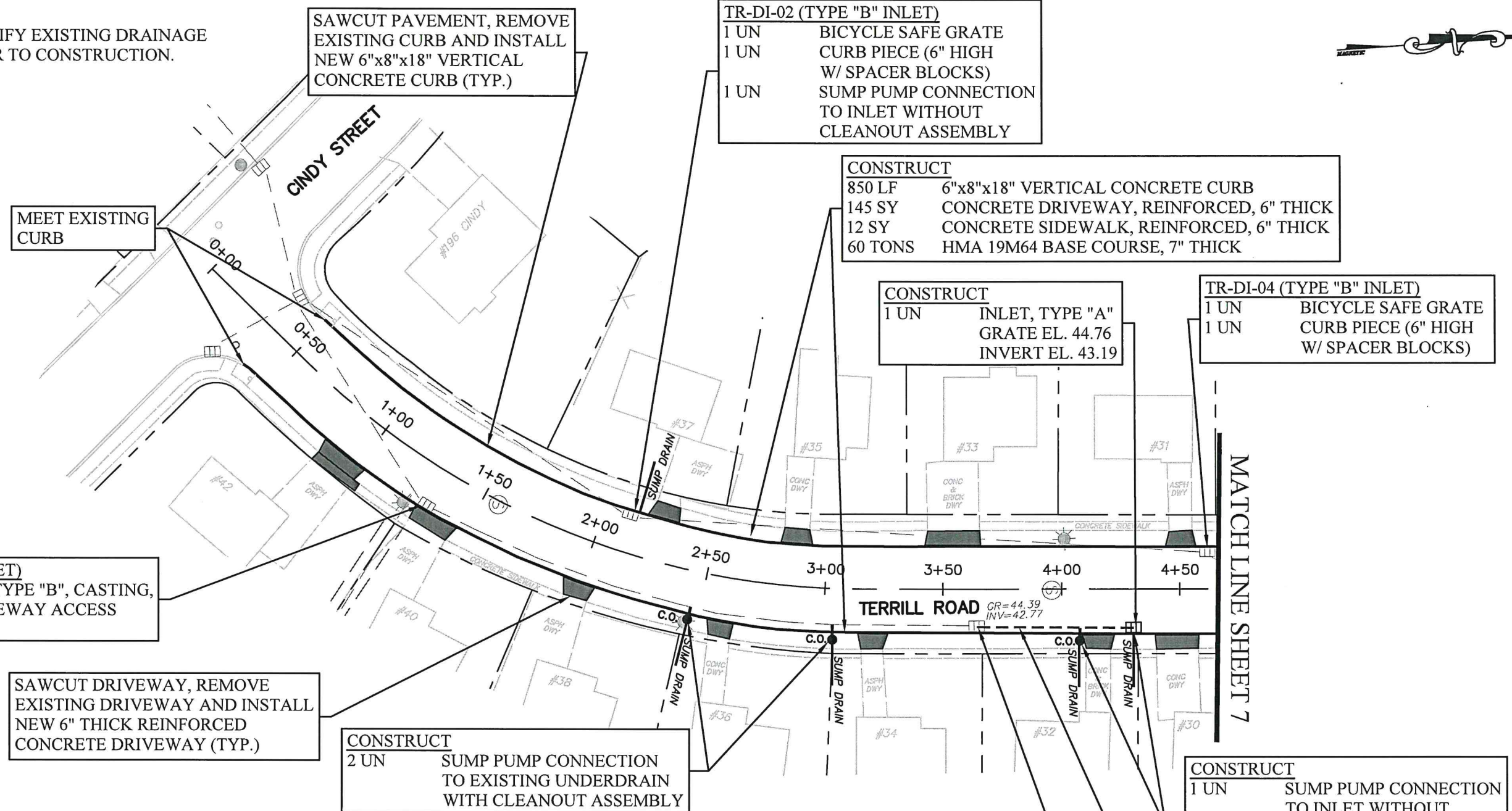
Nicole S. Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 SOUTHWOOD DRIVE
 CONSTRUCTION PLAN**

JOB No:
 CONTRACT No:
2022-53
 SHEET:
5 OF 18

NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE GRATES AND INVERTS PRIOR TO CONSTRUCTION.



DRIVEWAY CONSTRUCTION TABLE

#30 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 15 SY	#36 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY
#31 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 9 SY	#37 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY
#32 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY	#38 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 14 SY
#33 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 19 SY	#40 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 16 SY
#34 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY	#42 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 17 SY CONC. SIDEWALK, REINF., 6" THICK: 12 SY
#35 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY		

FILE NO. / DWG NAME: TERRILL ROAD PLAN SHEET
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
DESIGN BY:
JCB
SCALE:
1"=50'
DATE:
6/20/2022

**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
TERRILL ROAD
CONSTRUCTION PLAN**

JOB No:
CONTRACT No:
2022-53
SHEET:
6 OF 18

FILE NO. / DWG NAME: TERRILL ROAD PLAN SHEET
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

TR-DI-06 (TYPE "B" INLET)
 1 UN CURB PIECE (6" HIGH W/ SPACER BLOCKS)
 CONNECT 10" PIPE TO INLET (NO ADDITIONAL PAYMENT)

TR-DI-05 (TYPE "B" INLET)
 1 UN BICYCLE SAFE GRATE CURB PIECE (6" HIGH W/ SPACER BLOCKS)

CONSTRUCT
 905 LF 6"x8"x18" VERTICAL CONCRETE CURB
 116 SY CONCRETE DRIVEWAY, REINFORCED, 6" THICK
 70 TONS HMA 19M64 BASE COURSE, 7" THICK

CONSTRUCT
 1 UN SUMP PUMP CONNECTION TO UNDERDRAIN WITH CLEANOUT ASSEMBLY

CONSTRUCT
 65 LF 10" PERFORATED HDPE UNDERDRAIN PIPE, TYPE 'P' AT MINIMUM 0.5% SLOPE

MEET EXISTING CURB PIECE

TR-DI-08 (TYPE "B" INLET)
 CONNECT 10" PIPE TO INLET (NO ADDITIONAL PAYMENT)

MEET EXISTING CURB

CONSTRUCT TYPE 4 CURB RAMP
 20 SY CONCRETE SIDEWALK, 4" THICK
 1 SY DETECTABLE WARNING SURFACE

MEET EXISTING CURB

CONSTRUCT
 50 LF 10" PERFORATED HDPE UNDERDRAIN PIPE, TYPE 'P' AT MINIMUM 0.5% SLOPE

CONSTRUCT
 1 UN SUMP PUMP CONNECTION TO UNDERDRAIN WITH CLEANOUT ASSEMBLY

CONSTRUCT TYPE 4 CURB RAMP
 25 SY CONCRETE SIDEWALK, 4" THICK
 1 SY DETECTABLE WARNING SURFACE

TR-DI-07
 1 UN BICYCLE SAFE GRATE CURB PIECE (6" HIGH W/ SPACER BLOCKS)
 1 UN CONNECT 10" PIPE TO INLET (NO ADDITIONAL PAYMENT)

CONSTRUCT
 1 UN SUMP PUMP CONNECTION TO UNDERDRAIN WITH CLEANOUT ASSEMBLY

CONSTRUCT
 56 LF 10" PERFORATED HDPE UNDERDRAIN PIPE, TYPE 'P' AT MINIMUM 0.5% SLOPE

SAWCUT PAVEMENT, REMOVE EXISTING CURB AND INSTALL NEW 6"x8"x18" VERTICAL CONCRETE CURB (TYP.)

SAWCUT DRIVEWAY, REMOVE EXISTING DRIVEWAY AND INSTALL NEW 6" THICK REINFORCED CONCRETE DRIVEWAY (TYP.)

DRIVEWAY CONSTRUCTION TABLE

#16 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY	#25 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY
#18 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY	#26 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 20 SY
#20 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY	#27 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY
#22 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY	#29 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 16 SY
#24 TERRILL ROAD	CONC. DRIVEWAY, REINF., 6" THICK: 19 SY		

NOTES:
 1. CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE GRATES AND INVERTS PRIOR TO CONSTRUCTION.

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

DRAWN BY: JCB
 DESIGN BY: JCB
 SCALE: 1"=50'
 DATE: 6/20/2022

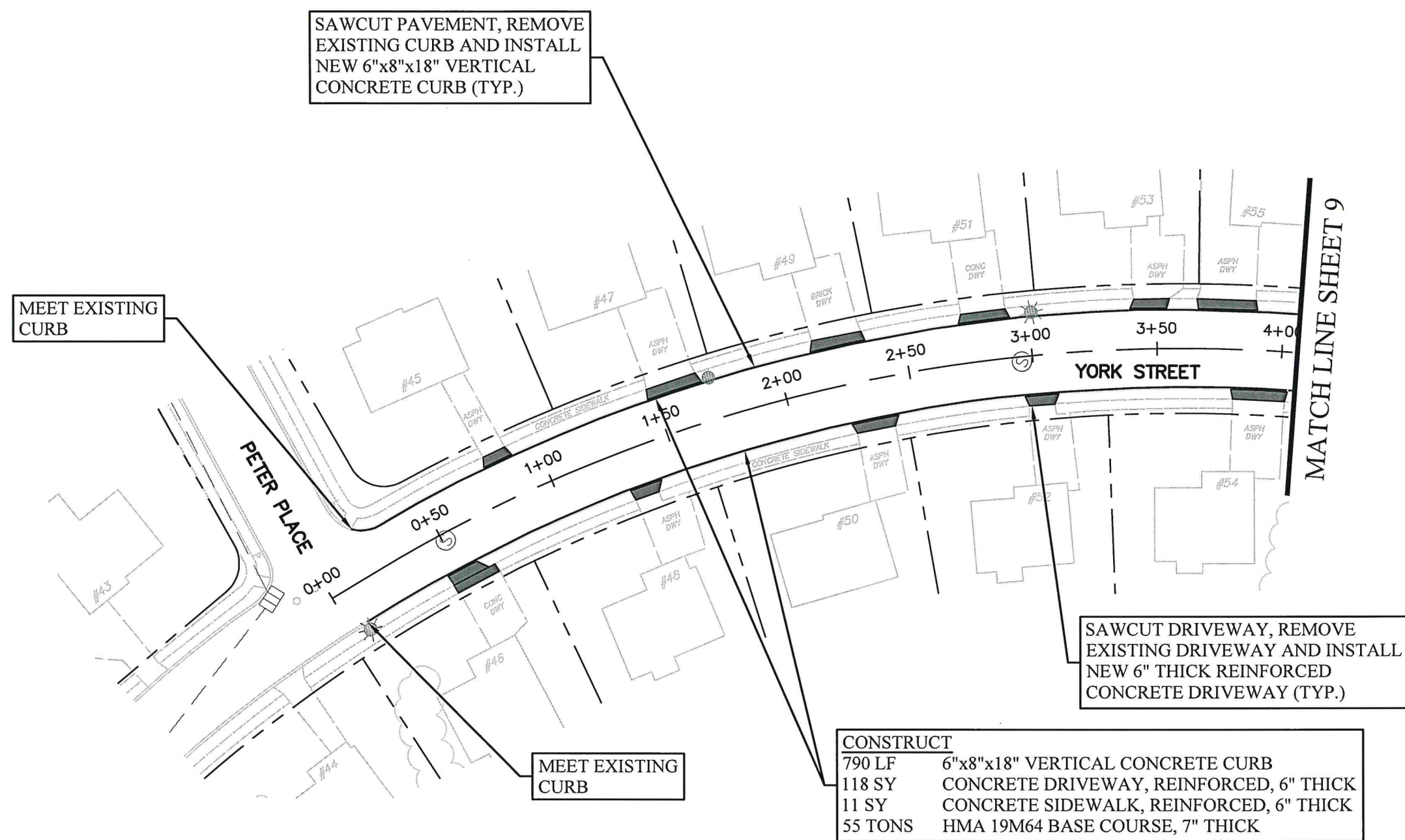
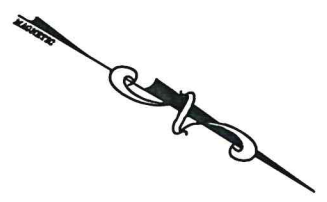
**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole S. Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 TERRILL ROAD
 CONSTRUCTION PLAN**

JOB No:
 CONTRACT No: 2022-53
 SHEET: 7 OF 18

FILE NO. / DWG NAME: YORK STREET PLAN SHEET
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



CONSTRUCT	
790 LF	6"x8"x18" VERTICAL CONCRETE CURB
118 SY	CONCRETE DRIVEWAY, REINF., 6" THICK
11 SY	CONCRETE SIDEWALK, REINF., 6" THICK
55 TONS	HMA 19M64 BASE COURSE, 7" THICK

DRIVEWAY CONSTRUCTION TABLE

#45 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY	#51 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY
#46 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 11 SY CONC. SIDEWALK, REINF., 6" THICK: 11 SY	#52 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY
#47 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 13 SY	#53 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 9 SY
#48 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY	#54 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 13 SY
#49 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 13 SY	#55 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 14 SY
#50 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 10 SY		

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
1"=50'
 DATE:
6/20/2022

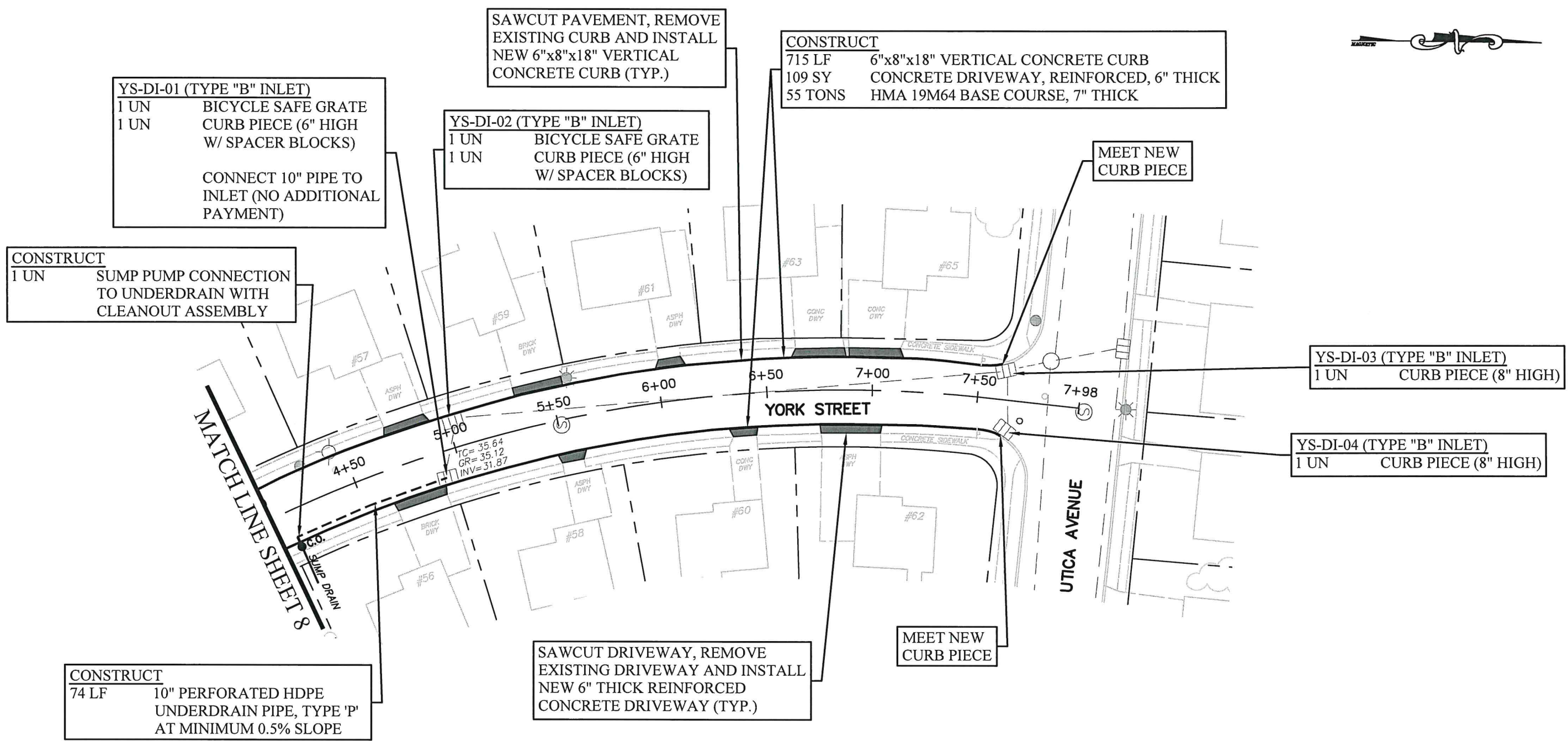
**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 YORK STREET
 CONSTRUCTION PLAN**

JOB No:
 CONTRACT No:
2022-53
 SHEET:
8 OF 18

FILE NO. / DWG NAME: YORK STREET PLAN SHEET
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



DRIVEWAY CONSTRUCTION TABLE

#56 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 14 SY	#61 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY
#57 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 12 SY	#62 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 17 SY
#58 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY	#63 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 15 SY
#59 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 13 SY	#65 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 14 SY
#60 YORK STREET	CONC. DRIVEWAY, REINF., 6" THICK: 8 SY		

- NOTES:**
- CONTRACTOR SHALL PAINT CURB YELLOW AT INTERSECTION OF YORK STREET AND UTICA AVENUE WHERE DIRECTED BY ENGINEER IN THE FIELD (NO ADDITIONAL PAYMENT)
 - CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE GRATES AND INVERTS PRIOR TO CONSTRUCTION.

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
1"=50'
 DATE:
6/20/2022

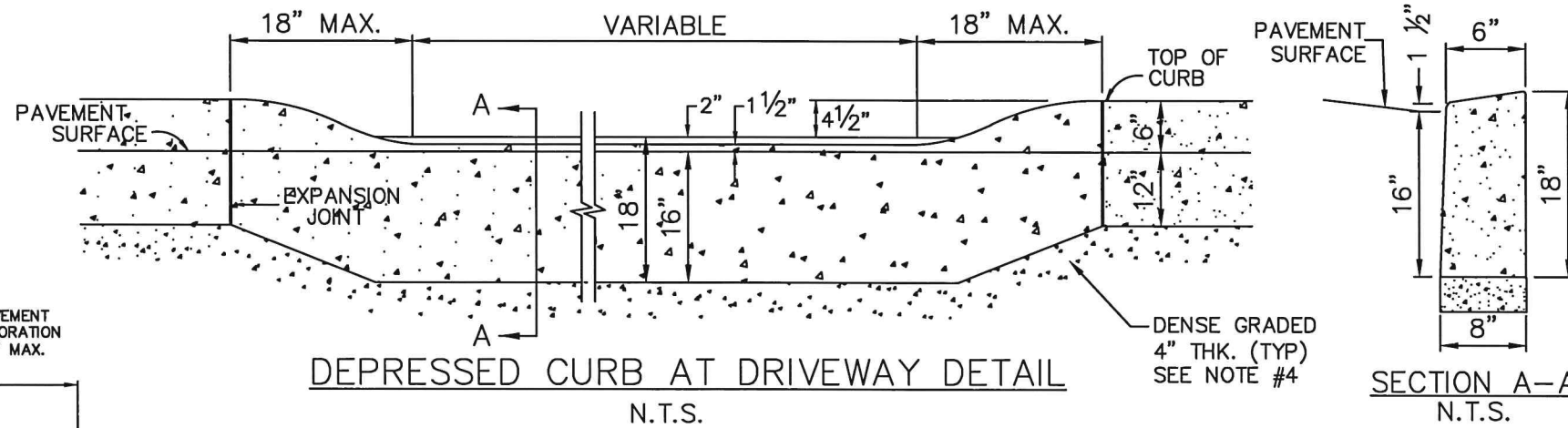
**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 YORK STREET
 CONSTRUCTION PLAN**

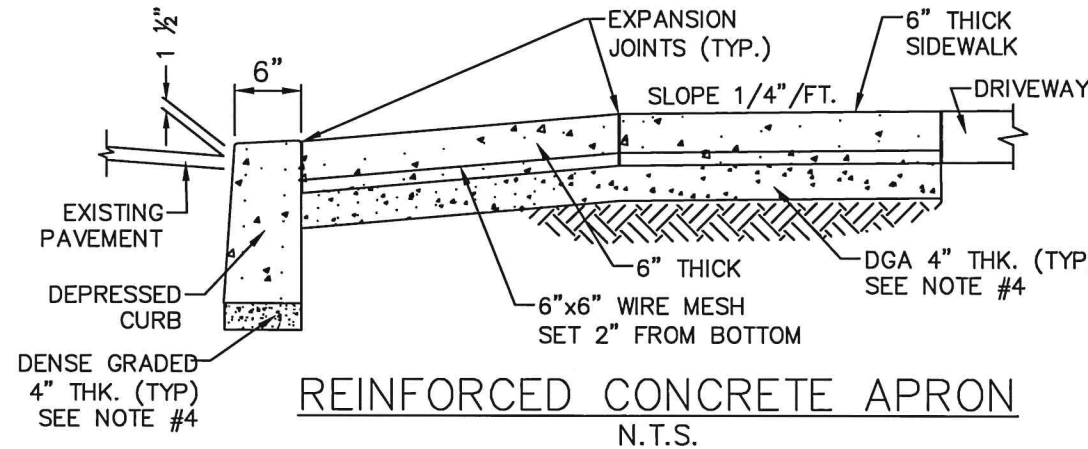
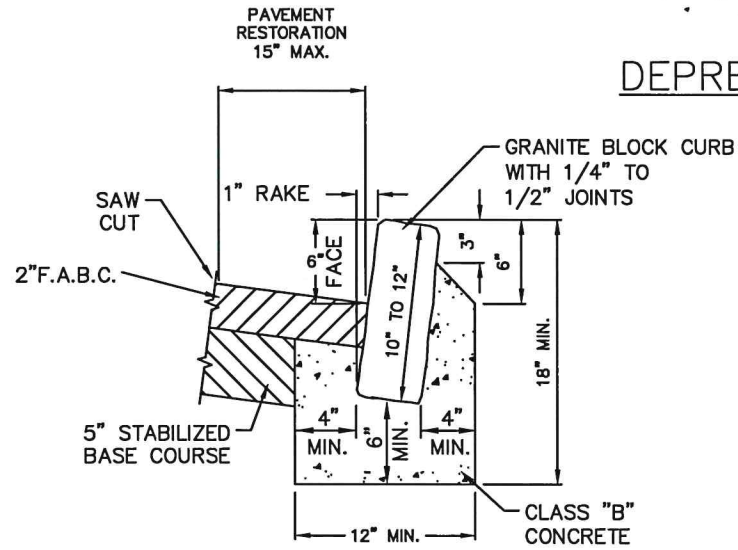
JOB No:
 CONTRACT No:
2022-53
 SHEET:
9 OF 18

FILE NO. / DWG NAME: DETAIL SHEETS
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



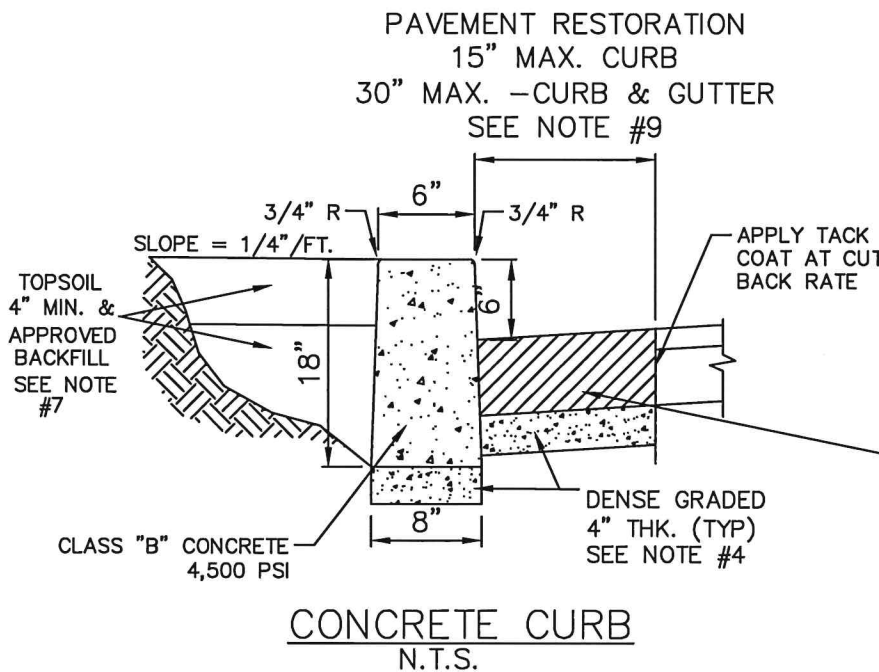
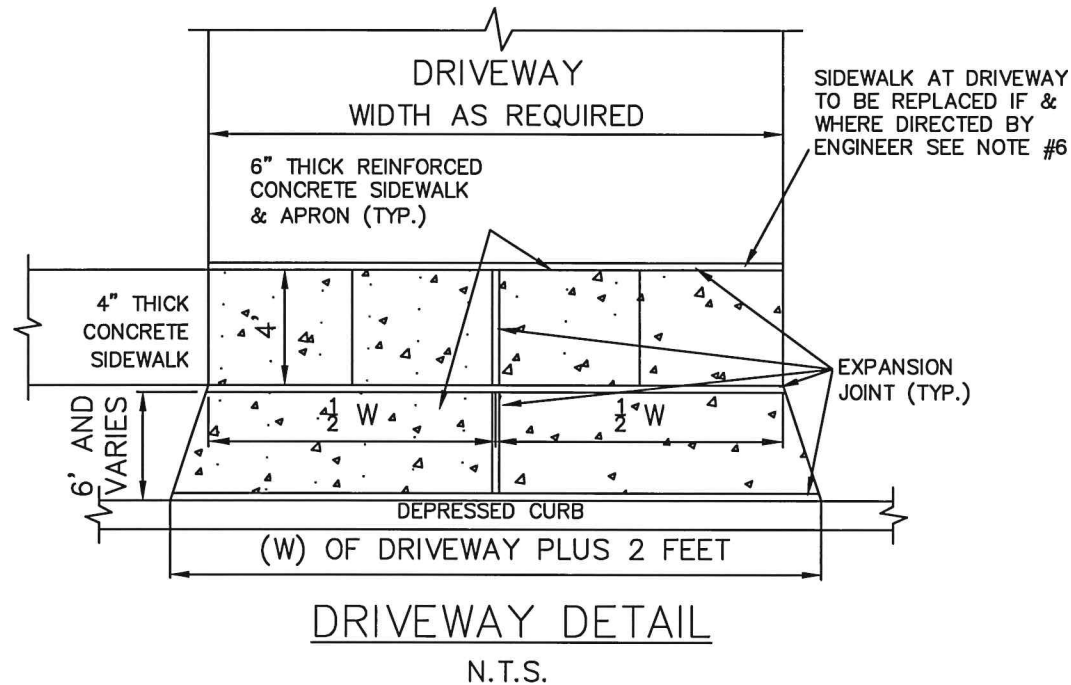
NOTES:

1. FACE FORMING OF THE CURB WILL NOT BE PERMITTED.
2. HOT MIX ASPHALT TO BE COMPACTED USING VIBRATOR PLATE OR OTHER MECHANICAL EQUIPMENT APPROVED BY THE ENGINEER. WHEN PLACING 7" THICK HMA BASE COURSE, ASPHALT SHALL BE PLACED AND COMPACTED IN TWO LIFTS.
3. EXPANSION JOINTS 1/2" WIDE WITH PRE FORMED BITUMINOUS JOINT FILLER SHALL BE PROVIDED AT 10' INTERVALS AND ALSO WHERE THE CURB ABUTS SIDEWALKS AND DRIVEWAY APRONS.
4. DENSE GRADED AGGREGATE (DGA) 4" THICK SHALL BE INSTALLED UNDER ALL NEW CONCRETE. NO SEPARATE PAYMENT SHALL BE MADE FOR DENSE GRADED AGGREGATE USED AS BEDDING FOR CURB, SIDEWALKS, APRON, AND DRIVEWAYS. THE COST THEREOF SHALL BE INCLUDED IN THE VARIOUS BID ITEMS.
5. CONCRETE FOR CURB, SIDEWALKS AND DRIVEWAY APRONS SHALL BE CLASS B, 4500 P.S.I.
6. CONCRETE SIDEWALK AND APRON INSTALLED AT DRIVEWAYS SHALL BE 6" THICK AND REINFORCED WITH 6"x6" WELDED WIRE MESH REINFORCEMENT.
7. GRASS AND TOPSOIL DISTURBED DURING CURB REMOVAL & CONSTRUCTION SHALL BE TAKEN OFF-SITE AND NOT BE PERMITTED TO MIX WITH APPROVED FILL INSTALLED BEHIND NEW CURB OR UNDER AREA OF PAVEMENT RESTORATION. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL AND DISPOSAL OF EXISTING GRASS AND TOPSOIL SPOILS.
8. PAYMENT FOR RESTORATION OF PAVEMENT SHALL BE PAID UNDER "HOT MIX ASPHALT 9.5M64 SURFACE COURSE" AND "HOT MIX ASPHALT 19M64 BASE COURSE"
9. THERE SHALL BE NO SEPARATE PAYMENT FOR THE RESTORATION OF LAWN AREAS. THE COST OF LAWN AREA RESTORATION SHALL BE INCLUDED IN THE VARIOUS BID ITEMS (CURBS, SIDEWALK, SIDEWALK RAMPS, ETC.)
 - A. REMOVE CONCRETE CURB WITH GUTTER - 30" MAX. TRENCH WIDTH
 - B. REMOVE CONCRETE CURB - 15" MAX. TRENCH WIDTH
10. THERE WILL BE NO SEPARATE PAYMENT FOR THE REMOVAL & REINSTALLATION OF CURB SIDE MAILBOXES. IF THE CONTRACTOR MUST REMOVE ANY EXISTING MAILBOXES TO REMOVE CURB OR CURB WITH GUTTER, THE COST TO REMOVE AND REINSTALL CURB SIDE MAILBOXES MUST BE INCLUDED IN THE BID ITEM FOR CONCRETE CURB AND GRANITE BLOCK CURB.



NOTES:

1. CONCRETE TO BE N.J.D.O.T. CLASS "B"



SOUTHWOOD DRIVE
 HOT MIX ASPHALT (HMA) PAVEMENT RESTORATION,
 HMA SURFACE COURSE (9.5M64 MIX), 2" THICK
 HMA BASE COURSE (19M64 MIX), 5" THICK
ALL OTHER ROADS
 HMA PAVEMENT RESTORATION
 HMA BASE COURSE (19M64 MIX), 7" THICK
 SEE NOTES #2 & #8.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

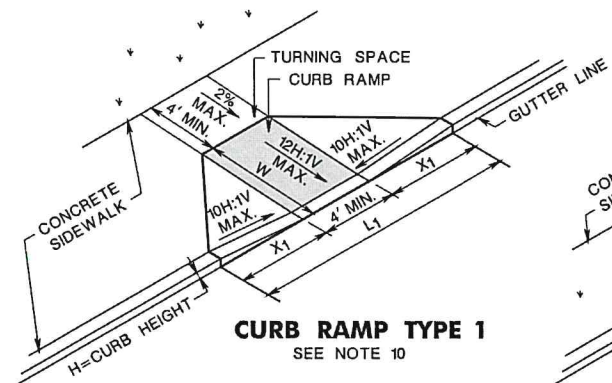
DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
N.T.S.
 DATE:
6/20/2022

**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

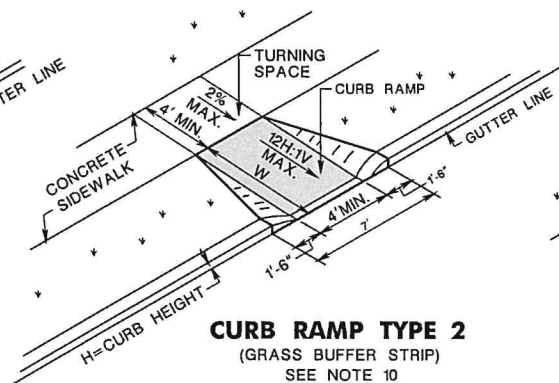
Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 CONSTRUCTION DETAILS 1

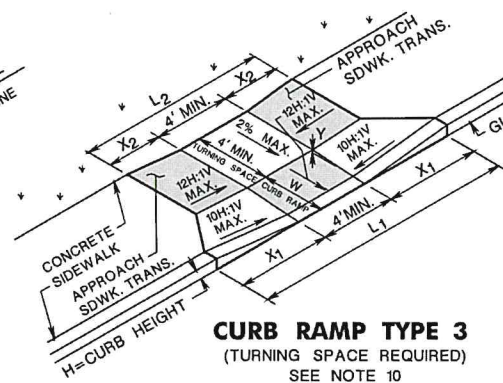
JOB No:
 CONTRACT No:
2022-53
 SHEET:
10 OF 18



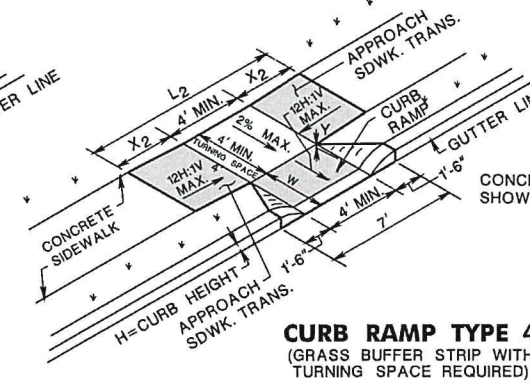
CURB RAMP TYPE 1
SEE NOTE 10



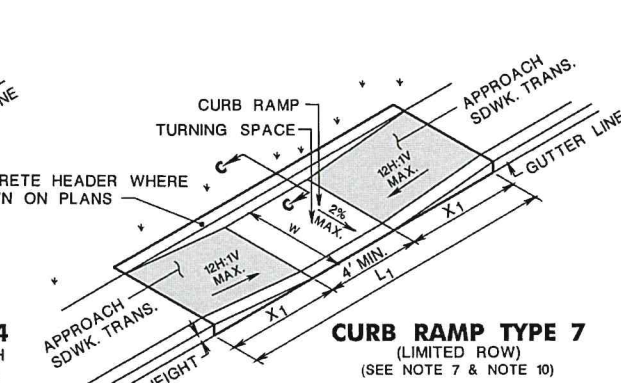
CURB RAMP TYPE 2
(GRASS BUFFER STRIP)
SEE NOTE 10



CURB RAMP TYPE 3
(TURNING SPACE REQUIRED)
SEE NOTE 10



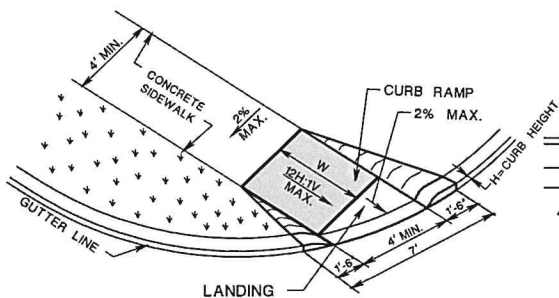
CURB RAMP TYPE 4
(GRASS BUFFER STRIP WITH
TURNING SPACE REQUIRED)
SEE NOTE 10



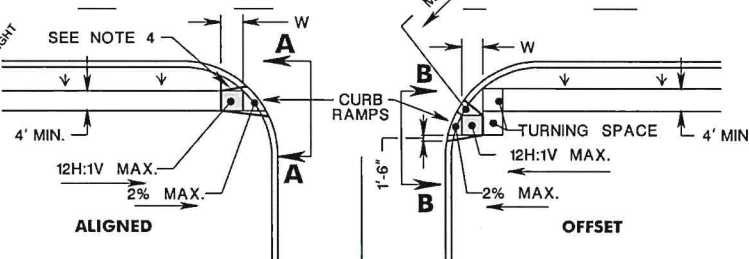
CURB RAMP TYPE 7
(LIMITED ROW)
(SEE NOTE 7 & NOTE 10)



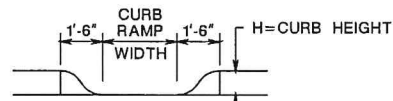
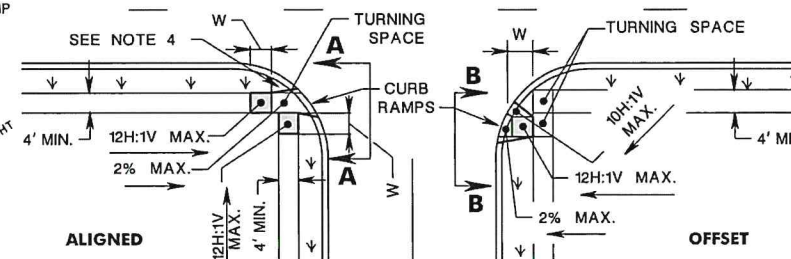
SECTION C-C



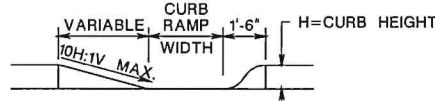
CURB RAMP TYPE 5



CURB RAMP TYPE 6

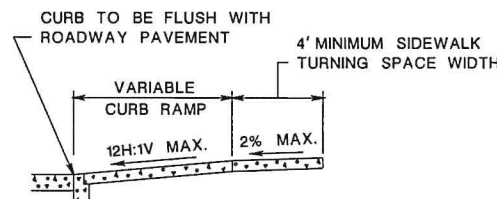


SECTION A-A

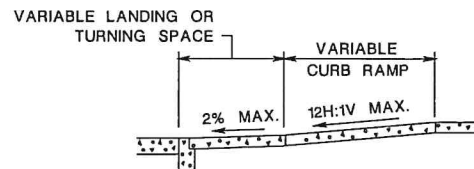


SECTION B-B

NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).



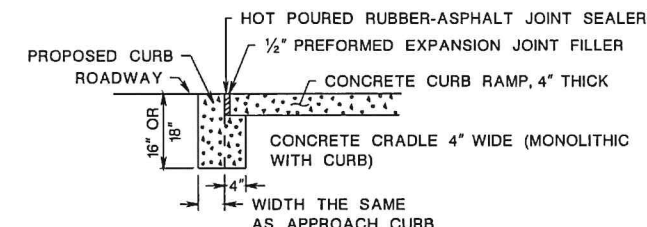
SECTION THROUGH CURB RAMPS 1 THROUGH 4



SECTION THROUGH CURB RAMPS 5 AND 6

NOTES:

- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
- FOR DIMENSIONS SEE CD-606-3 AND CD-606-4
- CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN.) AT ALL CURB RAMPS.
- FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
- SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
- CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
- WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
- CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
- THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X₂ IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
- CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.



DROPPED CURB AND CRADLE

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

DRAWN BY:
JCB
DESIGN BY:
JCB
SCALE:
N.T.S.
DATE:
6/20/2022

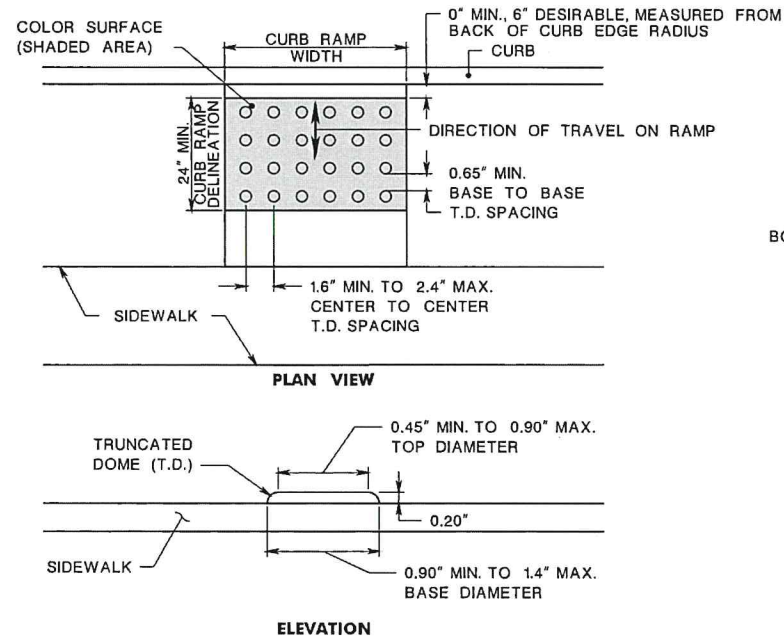
**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

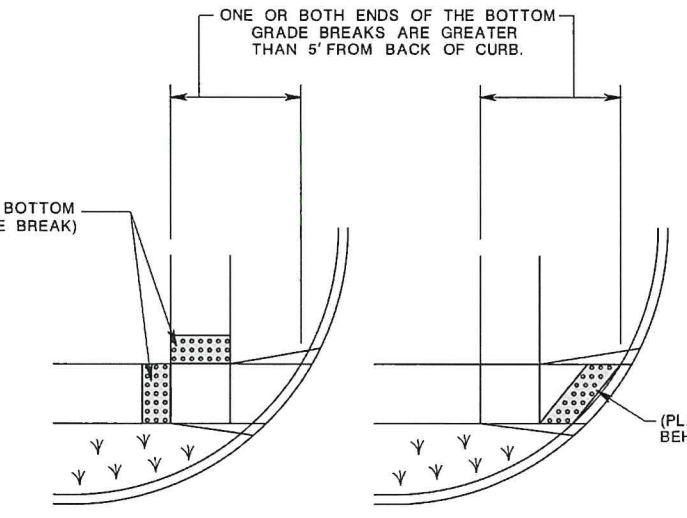
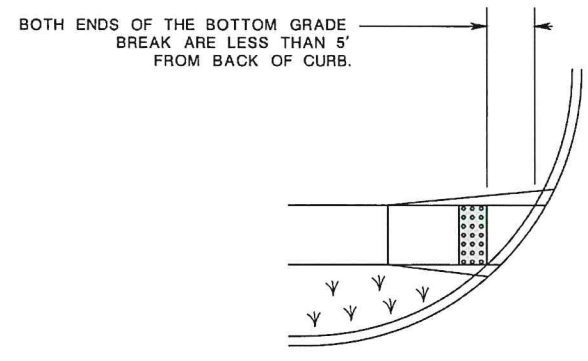
2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
CONSTRUCTION DETAILS 2

JOB No:
CONTRACT No:
2022-53
SHEET:
11 OF 18

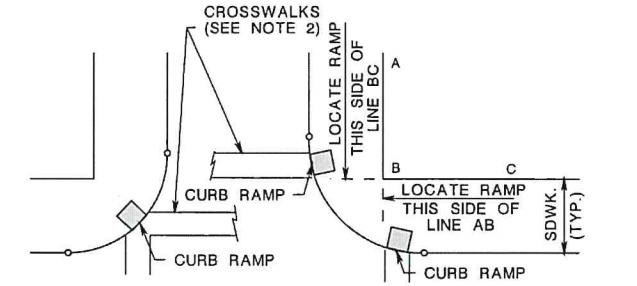
FILE NO. / DWG NAME: DETAIL SHEETS
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



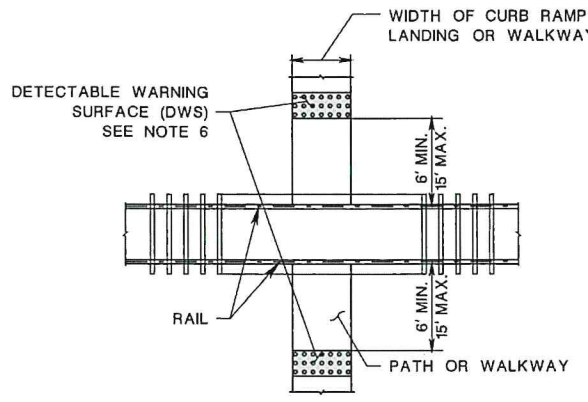
DETECTABLE WARNING SURFACE



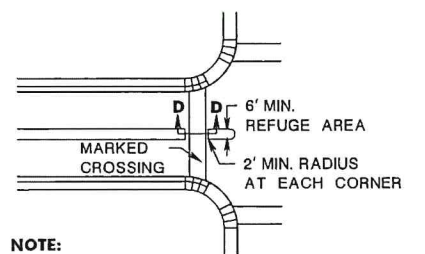
PLACEMENT OF DETECTABLE WARNING SURFACE FOR CURB RAMP TYPE 5 AND 6



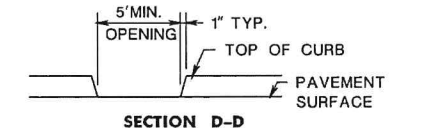
LOCATION OF CURB RAMP TYPES 1, 2, 3, 4, & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY



PEDESTRIAN RAILROAD CROSSING

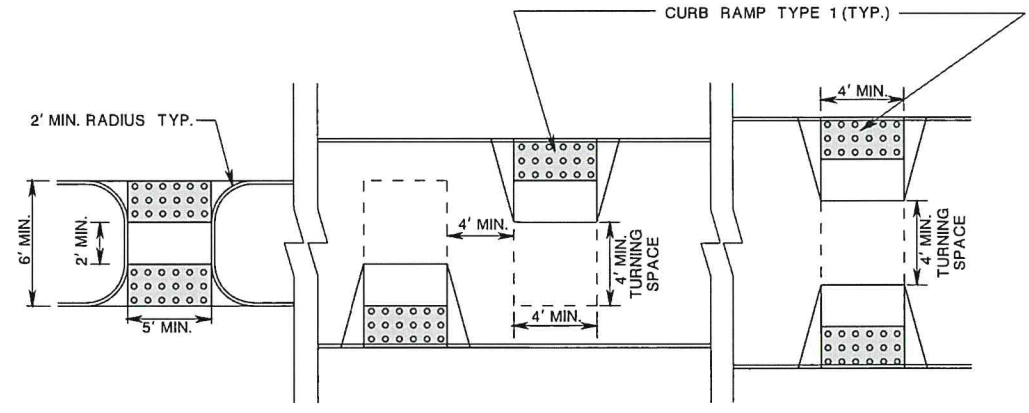


NOTE:
 WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT-THROUGH



NOTE:
 5" MIN. WIDE OPENING TO BE FLUSH WITH ROADWAY PAVEMENT

PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS



PEDESTRIAN REFUGE ISLAND

- NOTES:**
- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 - FOR NARROW ISLAND WIDTH, SEE PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
 - FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606-1.
 - CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4, & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
 - IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
 - A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. THE ROWS OF DOMES ON THE DWS SHOULD FOLLOW THE DIRECTION OF TRAVEL OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY: JCB
 DESIGN BY: JCB
 SCALE: N.T.S.
 DATE: 6/20/2022

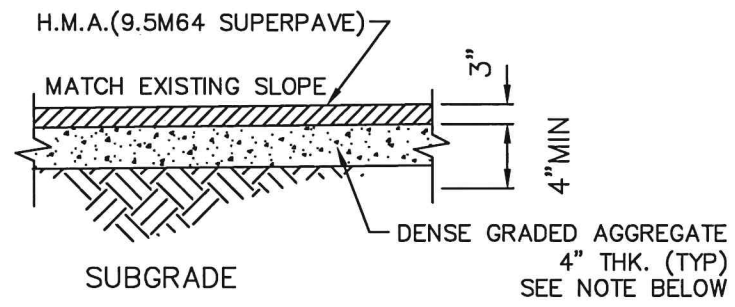
**TOWNSHIP OF OLD BRIDGE
 DEPARTMENT OF ENGINEERING**
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 CONSTRUCTION DETAILS 3

JOB No:
 CONTRACT No: 2022-53
 SHEET: 12 OF 18

FILE NO. / DWG NAME: DETAIL SHEETS
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

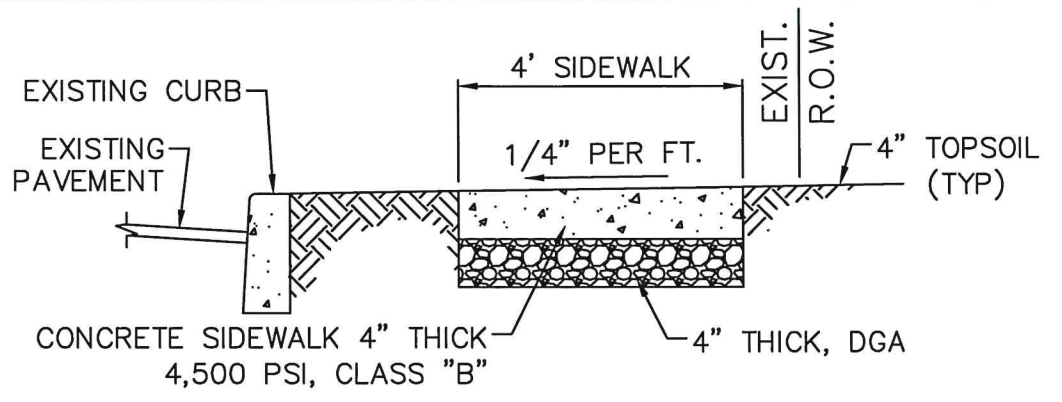


HMA DRIVEWAY REPAIR DETAIL

N.T.S.

NOTE:

- NO SEPARATE PAYMENT SHALL BE MADE FOR DENSE GRADED AGGREGATE INSTALLED UNDER HMA DRIVEWAYS. THE COST THEREOF SHALL BE INCLUDED IN THE COST FOR HMA DRIVEWAY.

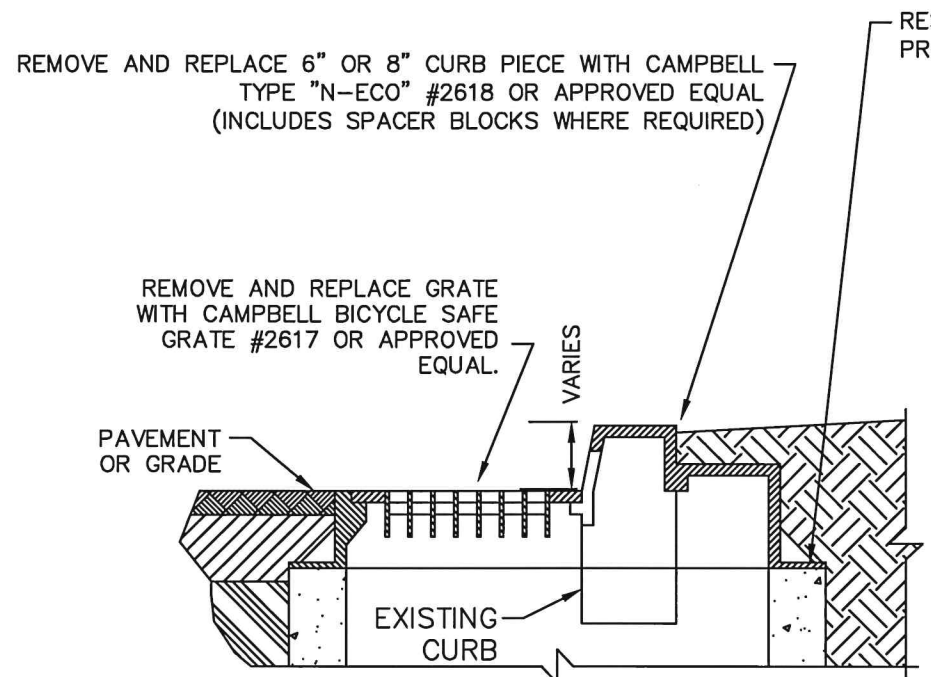


NOTE:

EXPANSION JOINTS FOR SIDEWALK SHALL BE PROVIDED AT TWENTY (20) FEET INTERVALS AND WHERE THE NEW CONCRETE ABUTS EXISTING CONCRETE IT SHALL BE FILLED WITH PRE FORMED BITUMINOUS CELLULAR TYPE JOINT FILLER, 1/2" THICK. OPEN JOINTS AND EXPANSION MATERIAL SHALL BE FULL DEPTH AND WIDTH OF SIDEWALK.

SIDEWALK DETAIL

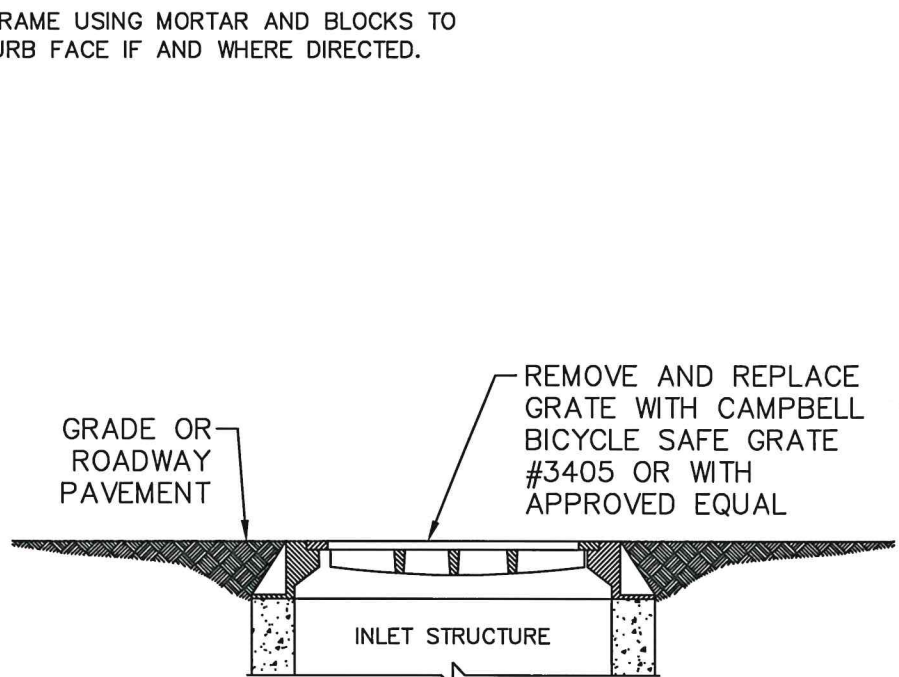
N.T.S.



STORM SEWER TYPE "B" INLET CURB PIECE AND GRATE RETROFIT DETAIL & RESET INLET FRAME USING MORTAR & BLOCK

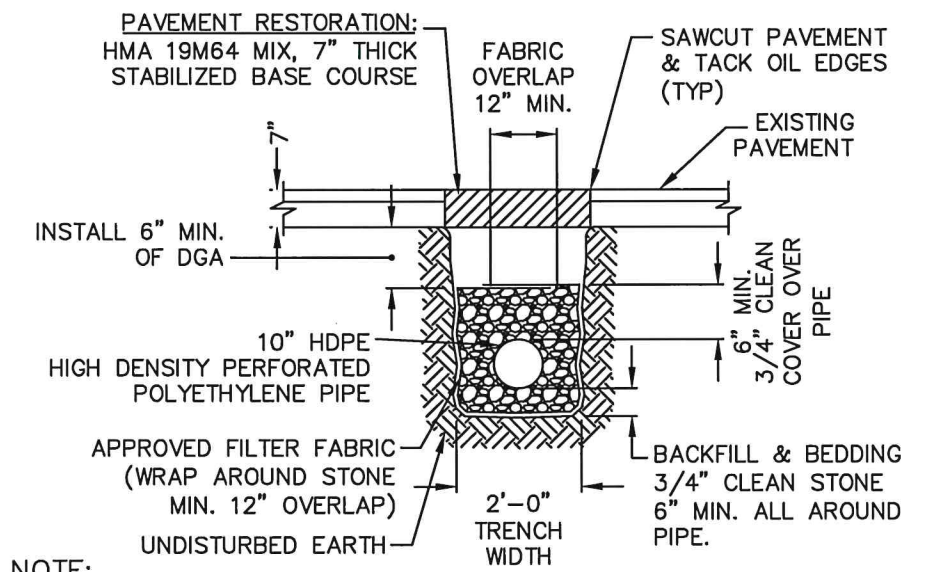
N.T.S.

NOTE: 1. CURB PIECE RETROFIT MAY REQUIRE SPACER BLOCKS WHEN REPLACING AN 8" OR LARGER CURB PIECE WITH ECO-STYLE. CURB PIECE REPLACEMENT WILL INCLUDE THE COST OF ANY REQUIRED SPACER BLOCKS.



STORM SEWER TYPE "A" INLET GRATE RETROFIT DETAIL

N.T.S.



NOTE:

- COMPACT BOTTOM OF PIPE TRENCH BEFORE THE INSTALLATION OF UNDERDRAIN PIPE.
- THE PAY ITEM FOR UNDERDRAIN PIPE SHALL INCLUDE ALL EXCAVATION, STONE BACKFILL, PIPE, ADAPTORS, FABRIC TACK OIL CONNECTION TO INLET AND ALL WORK NECESSARY FOR THE PROPER INSTALLATION OF THE UNDERDRAIN. PAVEMENT RESTORATION SHALL BE PAID UNDER "HOT MIX ASPHALT 9.5M64 SURFACE COURSE" AND "HOT MIX ASPHALT 19M64 BASE COURSE" AS APPLICABLE.

UNDERDRAIN TYPE "P" (IN PAVED AREAS)

N.T.S.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY: JCB
DESIGN BY: JCB
SCALE: N.T.S.
DATE: 6/20/2022

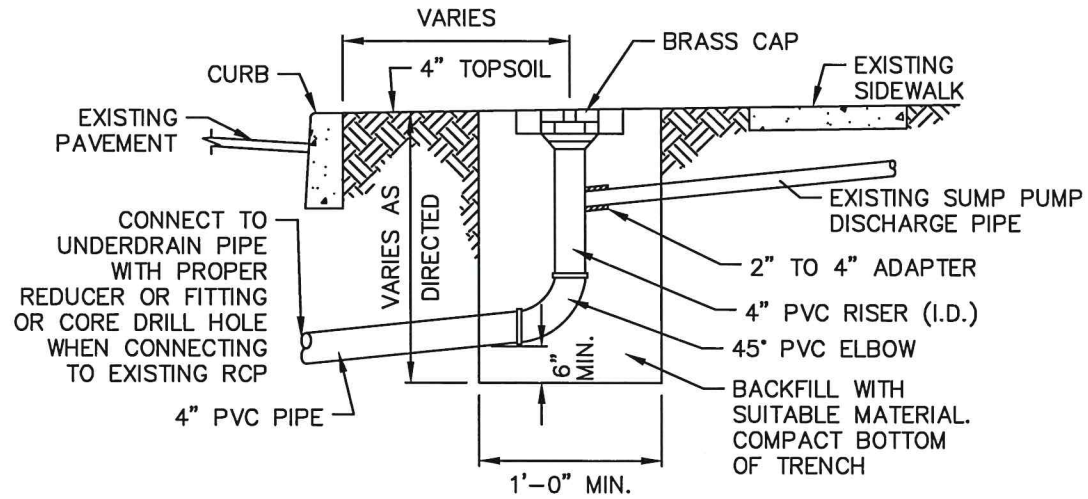
**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

Nicole S. Shapiro
NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

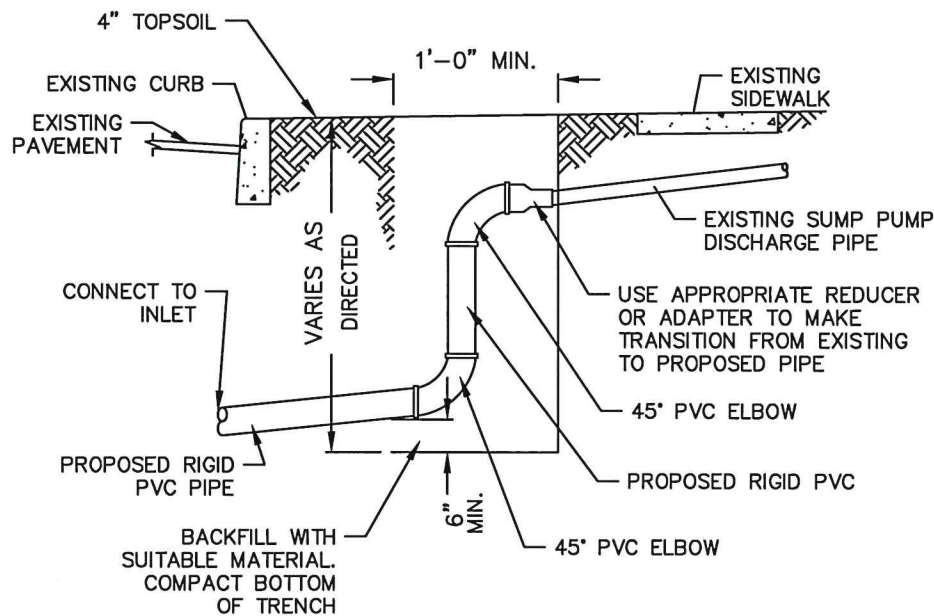
2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
CONSTRUCTION DETAILS 4

JOB No:
CONTRACT No: 2022-53
SHEET: 13 OF 18

FILE NO. / DWG NAME:DETAIL SHEETS
 CAD DIR: FILE PATH:R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan



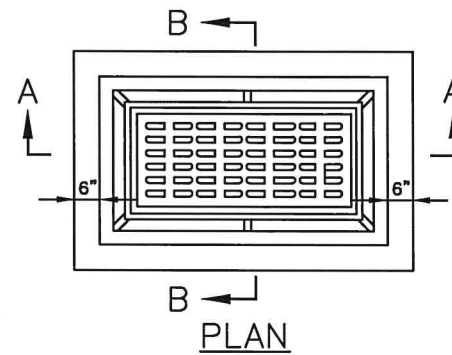
SUMP PUMP PIPE CONNECTION WITH CLEAN OUT



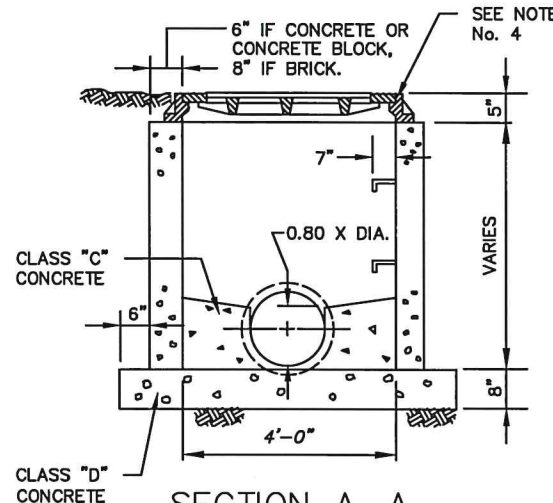
SUMP PUMP PIPE CONNECTION WITHOUT CLEAN OUT
N.T.S.

NOTE:

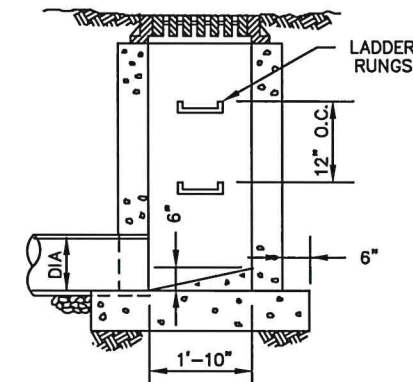
1. ALL CONNECTIONS MUST BE SEALED, SLEEVING OF LARGER DIAMETER PIPES WILL BE CONSIDER AN INAPPROPRIATE CONNECTION AND NOT ACCEPTED.
2. DURING THE COURSE OF CONSTRUCTION, THE ENGINEER MAY DIRECT THE CONTRACTOR TO INCREASE OR REDUCE THE NUMBER OF SUMP PUMP CONNECTIONS FROM THAT WHICH IS LISTED IN THE BID SCHEDULE.



PLAN



SECTION A-A
"THROUGH" INVERT DETAIL

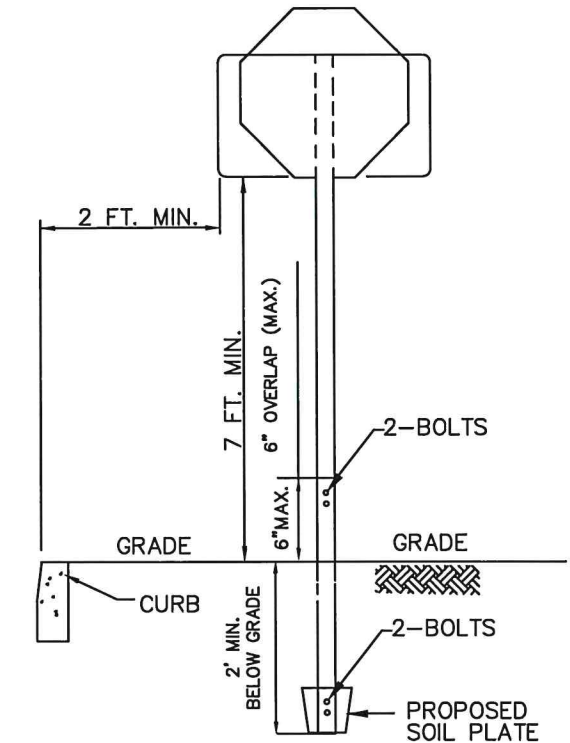


SECTION B-B
"TERMINAL" INVERT DETAIL

TYPE "A" INLET
N.T.S.

GENERAL NOTES:

1. FOOTING TO BE N.J.D.O.T. CLASS "B" CONC. (4500 PSI MIN.)
2. IF WALL CONSTRUCTION IS OTHER THAN CONCRETE THE OUTSIDE WALL SHALL BE PLASTERED WITH 1/2" THICK CEMENT PLASTER
3. FRAME AND GRATE TO BE NO. 2617 AS MANUFACTURED BY CAMPBELL FOUNDRY Co., OR EQUAL.
4. PROVIDE 7/8" DIA. ALUMINUM LADDER RUNGS, 12" O.C.
5. ALL STORM SEWER PIPE SHALL HAVE A 6" STONE BEDDING TO 1/2 DIAMETER OF PIPE.
6. INLETS 0' TO 8' DEEP SHALL BE SINGLE WALL CONSTRUCTION (6"). INLETS 8' TO 12' DEEP SHALL BE DOUBLE WALL CONSTRUCTION (12").
7. ALL GRATES TO BE "BICYCLE SAFE"
8. HEADPIECE AND GRATE TO BE STAMPED WITH "DRAINS TO WATERWAYS" OR APPROVED EQUAL
9. ALL CASTINGS TO BE MANUFACTURED IN AMERICA. (I.E.- MADE IN U.S.A)
10. REMOVED CASTINGS AND GRATES ARE THE PROPERTY OF OLD BRIDGE TOWNSHIP, AND WILL BE TRANSPORTED TO AND STACKED AT THE OLD BRIDGE TOWNSHIP PUBLIC WORKS YARD BY THE CONTRACTOR. COST TO BE INCLUDED IN THE BID ITEM FOR CURB PIECE AND BICYCLE SAFE GRATE.



BREAK AWAY SIGN POST WITH SOIL PLATE 30" X 30" OR SMALLER
N.T.S.

NOTES:

ANY POLE MOUNTED SIGNS THAT ARE REMOVED FROM THE GROUND DURING THE COURSE OF CONSTRUCTION MUST BE RETROFITTED WITH A "BREAK AWAY" DESIGN POLE AND FITTED WITH A SOIL PLATE.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY: JCB
 DESIGN BY: JCB
 SCALE: N.T.S.
 DATE: 6/20/2022

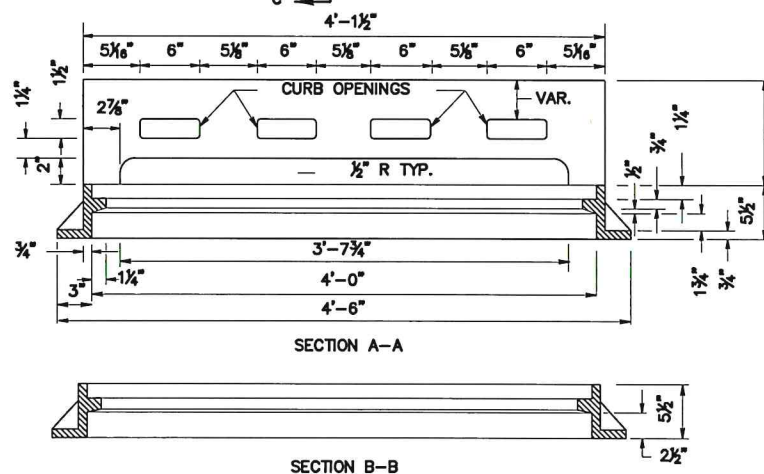
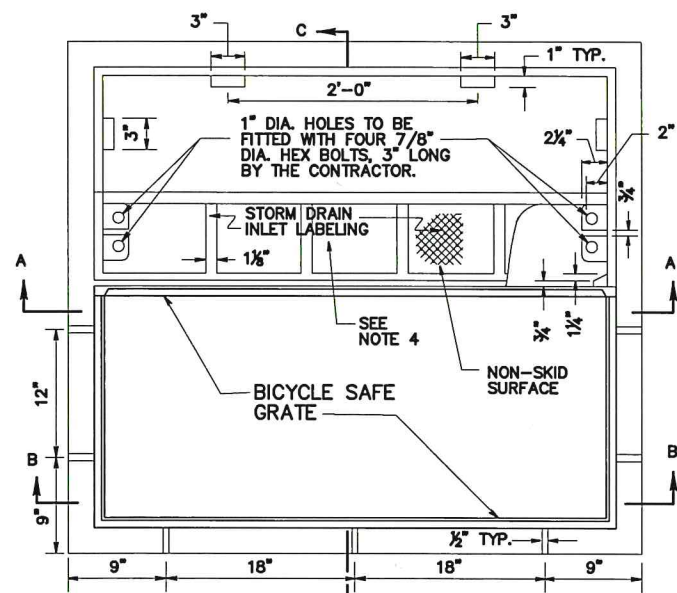
TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
CONSTRUCTION DETAILS 5

JOB No:
 CONTRACT No: 2022-53
 SHEET: 14 OF 18

FILE NO. / DWG NAME: DETAIL SHEETS
CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

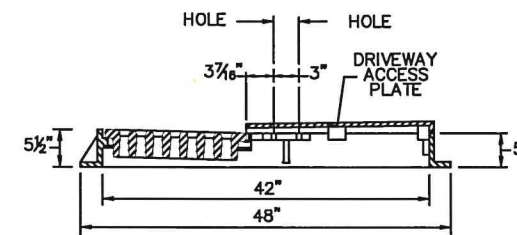
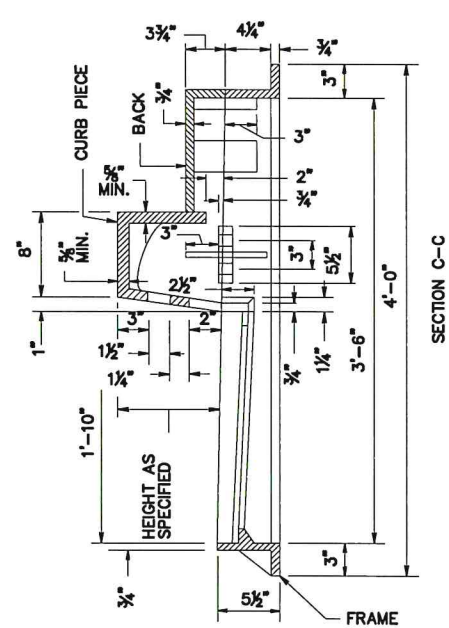


WEIGHTS CLASS 35B
 WEIGHT OF GRATE = 300 ± 15 LBS
 WEIGHT OF FRAME = 312#
 WEIGHT OF BACK = 120#
 WEIGHT OF CURB PIECE —
 6" = 125#
 8" = 167#
 10" = 209#
 12" = 251#
 2" (SEE NOTE 4),
 4" (NO CURB OPENINGS),
 6", 8", 10", OR 12",
 AS SPECIFIED

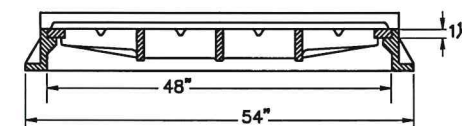
NOTES:

- DIMENSIONS, WEIGHTS AND OTHER CRITERIA SHOWN ON THESE DETAILS ARE FOR CLASS 30B CAST IRON ONLY
- THE CLEAR SPACE IN THE CURB OPENING OR EACH INDIVIDUAL CLEAR SPACE, IF THE CURB OPENING HAS TWO OR MORE CLEAR SPACES, MUST HAVE AN AREA OF NO MORE THAN SEVEN (7.0) SQUARE INCHES, OR BE NO GREATER THAN TWO (2.0) INCHES ACROSS THE SMALLEST DIMENSION.
- STORM DRAIN INLET LABEL TO READ "NO DUMPING, DRAINS TO WATERWAYS" OR OTHERWISE APPROVED BY THE RE. INCLUDE FISH LOGOS ON BOTH SIDES OF THE LABEL
- FOR 2" CURB PIECE, USE DRIVEWAY ACCESS PLATE (SEE DETAIL)
- TYPE "B" INLET CASTING TO BE CAMPBELL FOUNDRY NO. 2618 OR APPROVED EQUAL TYPE "E" INLET CASTING TO BE CAMPBELL FOUNDRY NO. 3425.
- INLET CURB PIECE TO BE OF TYPE NOTED ON PLAN, CAMPBELL FOUNDRY, OR APPROVED EQUAL:
 - NON-MOUNTABLE: TYPE "N" (HEIGHT AS NOTED)
 - MOUNTABLE: TYPE "4-7-9"
 - DRIVEWAY ACCESS PLATE

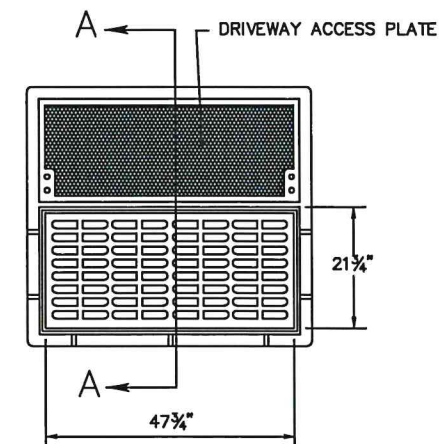
TYPE "B" INLET CASTING DETAIL
N.T.S.



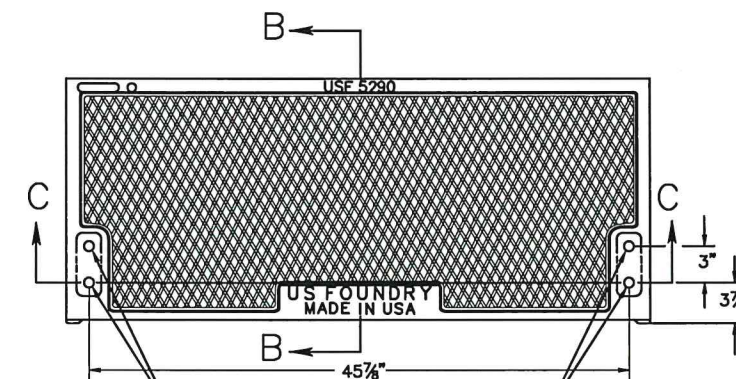
SECTION A-A



FRONT ELEVATION

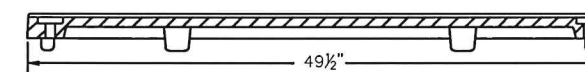


PLAN



SECTION B-B

FOUR 7/8" DIA. HOLES TO BE FITTED WITH FOUR 3/4" DIA. HEX BOLTS, 3" LONG, WITH NUTS TO CONNECT PLATE TO INLET CASTING BY THE CONTRACTOR



SECTION C-C

FRONT ELEVATION

DRIVEWAY ACCESS PLATE FOR INLET TYPE "B" CASTING
N.T.S.

WEIGHT OF PLATE = 300 LBS

NOTES:

- USE DRIVEWAY ACCESS PLATE ON TYPE B INLET WHERE CURB PIECE HEIGHT OF 2 INCHES IS REQUIRED AT DRIVEWAYS, AT GUIDE RAIL TERMINALS, OR AS NOTED ON THE PLANS.
- THE NEW INLET TYPE B CASTING WILL BE FITTED WITH DRIVEWAY ACCESS PLATE IN LIEU OF CURB PIECE. PAYMENT WILL BE MADE UNDER EITHER "SET INLET TYPE B, CASTING".
- SEE INLET TYPE B CASTING DETAIL OR INLET TYPE C CASTING DETAIL.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING OR SUBMITTAL FOR REVIEW PRIOR TO PURCHASE BY THE CONTRACTOR,

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

DRAWN BY: JCB
 DESIGN BY: JCB
 SCALE: N.T.S.
 DATE: 6/20/2022

TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
 CONTRACT #2022-53
 CONSTRUCTION DETAILS 6

JOB No:
 CONTRACT No: 2022-53
 SHEET: 15 OF 18

 G20 - 1 [60" x 24"] (10 S.F.)	 M4 - 8a [24" x 18"] (3 S.F.)	 (L OR R) W1 - 4a [48" x 48"] (16 S.F.)	 W13 - 1 [18" x 18"] (2.3 S.F.)	 W20 - 7a [48" x 48"] (16 S.F.)	 W8 - 1(S) [48" x 48"] (16 S.F.)
 G20 - 2A [48" x 24"] (8 S.F.)	 R2 - 1 [36" x 48"] (12 S.F.)	 (L OR R) W1 - 6 [48" x 24"] (8 S.F.)	 W20 - 1A [48" x 48"] (16 S.F.)	 W21 - 5 (S) [48" x 48"] (16 S.F.)	 W8 - 11a [48" x 48"] (16 S.F.)
 M4 - 9L (LEFT) [30" x 24"] M4 - 9R (RIGHT) [30" x 24"] (5 S.F.)	 R4 - 1 [24" x 30"] (5 S.F.)	 (L OR R) W4 - 2 [48" x 48"] (16 S.F.)	 W20 - 2 [48" x 48"] (16 S.F.)	 M4 - 9N [30" x 12" MIN.] (2.5 S.F.)	 W8 - 15F [48" x 48"] (16 S.F.)
 M4 - 9 (L or R) (S) [48" x 36"] (12 S.F.)	 R11 - 2 [48" x 30"] (10 S.F.)	 W5 - 1(S) [48" x 48"] (16 S.F.)	 W20 - 3 [48" x 48"] (16 S.F.)	 [24" x 24"] (4 S.F.)	 W8 - 15P [36" x 30"] (7.5 S.F.)
 M4 - 9LX (LEFT) [30" x 24"] M4 - 9RX (RIGHT) [30" x 24"] (5 S.F.)	 R11 - 3 [60" x 30"] (12.5 S.F.)	 W6 - 3 [48" x 48"] (16 S.F.)	 W20 - 4 [48" x 48"] (16 S.F.)	 [24" x 24"] (4 S.F.)	 W8 - 15 [48" x 48"] (16 S.F.)
 M4 - 9 (L or R) XS [48" x 36"] (12 S.F.)	 R11 - 4 [60" x 30"] (12.5 S.F.)	 W6 - 3 [48" x 48"] (16 S.F.)	 W20 - 4 [48" x 48"] (16 S.F.)	 [30" x 30"] (S) (6.3 S.F.)	 W99 - 2 [48" x 48"] (16 S.F.)
 M4 - 9L (LEFT) [48" x 18"] M4 - 9R (RIGHT) [48" x 18"] (6 S.F.)	 R11 - 4 [60" x 30"] (12.5 S.F.)	 W20 - 7b [48" x 48"] (16 S.F.)	 (L OR R) (CENTER) W20 - 5 [48" x 48"] (16 S.F.)		

GENERAL NOTES:

- DIMENSIONS, COLORS, AND DETAILS OF VARIOUS SIZE SIGNS AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- (S) REPRESENTS A SPECIAL SIZE SIGN.
- LETTERS AND NUMERALS TO CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- OBTAIN RE'S APPROVAL FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.
- DISTANCE LEGEND: SIGN NUMBER FOLLOWED BY A LETTER AND DISTANCE, ARE THE SIGN PLACEMENTS FOR USE WITH TCD-3 THROUGH TCD-21 AND PROJECT SPECIFIC PLANS. ALL DISTANCES ARE FROM THE TRANSITION OR POINT OF RESTRICTION.

LETTER	DISTANCE
A	1500'
B	1000'
C	500'
D	MILE
E	___ MILES AHEAD
F	AHEAD

BACKING MATERIAL

- USE ALUMINUM FLAT SHEET OF ALLOY AND TEMPER 5052-H38 OR 6061-T6 :
 - 0.10" THICK FOR ALL CONSTRUCTION SIGNS EXCEPT SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.
 - 0.024" THICK FOR ALL CONSTRUCTION SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.

TEMPORARY SIGN SUPPORTS

- USE WELL SEASONED LUMBER FOR SIGN SUPPORTS, FREE OF SPLITS, KNOTS AND WARPS, OR OF STEEL COMPONENTS.
- WOOD POSTS TO HAVE A UNIFORM CROSS-SECTION AND NOT TO EXCEED THE FOLLOWING DIMENSIONS FOR:
 - SINGLE POST = 4" x 6"
 - TWO POSTS = 3" x 6" OR 4" x 5"
 - THREE POSTS = 3" x 5" OR 4" x 4"
- 4" X 6" WOOD POSTS TO BE MODIFIED BY DRILLING 1/2 INCH DIAMETER HOLES 4 INCHES AND 18 INCHES ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
- NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS TO BE 7 FOOT MINIMUM. EMBEDMENT DEPTH FOR THE WOOD POST NOT TO EXCEED 3.5 FEET.
- USE STEEL POSTS IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.
- TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA TO BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHIONS.
- USE WOOD POST ONLY ON TEMPORARY SIGN SUPPORT.

SIGN FACES

- USE SIGN FACES OF ASTM D4956 TYPE VII OR VIII FLUORESCENT ORANGE SHEETING.

FASTENING

- SECURELY FASTEN ALL SIGNS TO THEIR SUPPORTS WITH BOLTS, NUTS, AND WASHERS, AS SPECIFIED.

NOTE:
THE BORDER, THE WORDS "GIVE US A", "SLOW DOWN!", AND THE BRAKE PEDAL ARE BLACK; LEAVING THE WORD "BRAKE" ORANGE.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY: JCB
DESIGN BY: JCB
SCALE: N.T.S.
DATE: 6/20/2022

**TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING**
One Old Bridge Plaza
Old Bridge, New Jersey 08857
Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE No. 24GE04622100

**2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
CONSTRUCTION DETAILS 7**

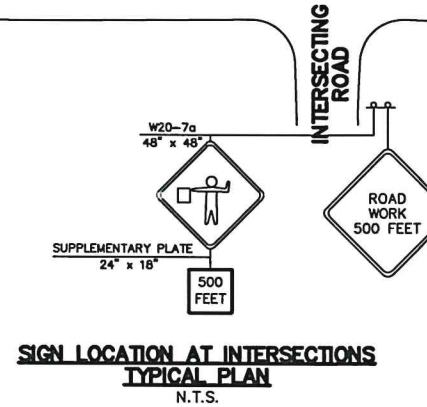
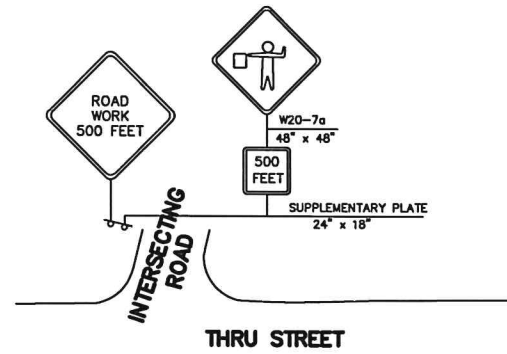
JOB No:
CONTRACT No: 2022-53
SHEET: 16 OF 18

GENERAL NOTES:

- ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," AS AMENDED.
- ADVANCE WARNING SIGNS AND TAPERS SHALL EXTENDED AS SIGHT DISTANCES REQUIRE TO ADJUST FOR REDUCED VISIBILITY DUE TO THE HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
- CONSTRUCTION SIGNS W8-9A AND W8-14A SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE DONE AS DIRECTED BY THE ENGINEER.
- CONSTRUCTION SIGNS R11-4 SHALL BE PLACED AT THE FIRST INTERSECTING STREET FROM THE CONSTRUCTION SITE AT THE TIME OF CONSTRUCTION ON THE SIDE STREETS.
- 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE, THERE SHALL BE W1-6 MOUNTED ON A BREAKAWAY BARRICADE CENTERED ON THE CLOSED WIDTH.
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- TRAFFIC FINES DOUBLED IN WORK AREA - R(NJ)5-17 SIGN SHALL BE LOCATED 500 FEET AFTER FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA.
- CONSTRUCTION ZONE SPEED LIMIT SHALL BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER AT THE TIME OF CONSTRUCTION.
- THE SPEED LIMIT R2-1 (BLACK ON WHITE) OR W13-1 (BLACK ON ORANGE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
- A REDUCED SPEED AHEAD SIGN, R2-5a(s) (BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 OR W13-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
- POLICE OR TRAFFIC DIRECTORS SHALL BE USED TO ASSIST IN CONTROLLING TRAFFIC AT INTERSECTIONS.
- CONES MAY BE SUBSTITUTED FOR DRUMS UPON APPROVAL OF THE ENGINEER.
- THE MINIMUM UNOBSTRUCTED LANE WIDTH SHALL BE 11 FEET. LANE WIDTH IS DEFINED AS THE WIDTH FROM THE EDGE OF DEVICE TO CENTER OF LANE LINE.
- ALL CONFLICTING STRIPES SHALL BE REMOVED.
- REMOVABLE PAVEMENT MARKING TAPE OR OTHER MEANS OF TRAFFIC CONTROL SHALL BE UTILIZED WHERE LANE SHIFTS ARE REQUIRED ON INTERMEDIATE OR TOP PAVEMENT LAYERS OR ON EXISTING PAVEMENTS NOT BEING REPAVED.
- UNLESS OTHERWISE SPECIFIED, TRAFFIC PAINT SHALL BE USED WHEN TRAFFIC STRIPES OR TRAFFIC MARKINGS ARE REQUIRED ON INTERMEDIATE PAVEMENT LAYERS THAT NEED TO BE OPENED TO TRAFFIC DUE TO STAGE CONSTRUCTION.
- ALL LANE CLOSURES AND DETOURING SHALL BE COORDINATED WITH THE TOWNSHIP OF OLD BRIDGE POLICE DEPARTMENT. TELEPHONE (732) 721-5600 x3820, SGT. AARON MATIKONIS

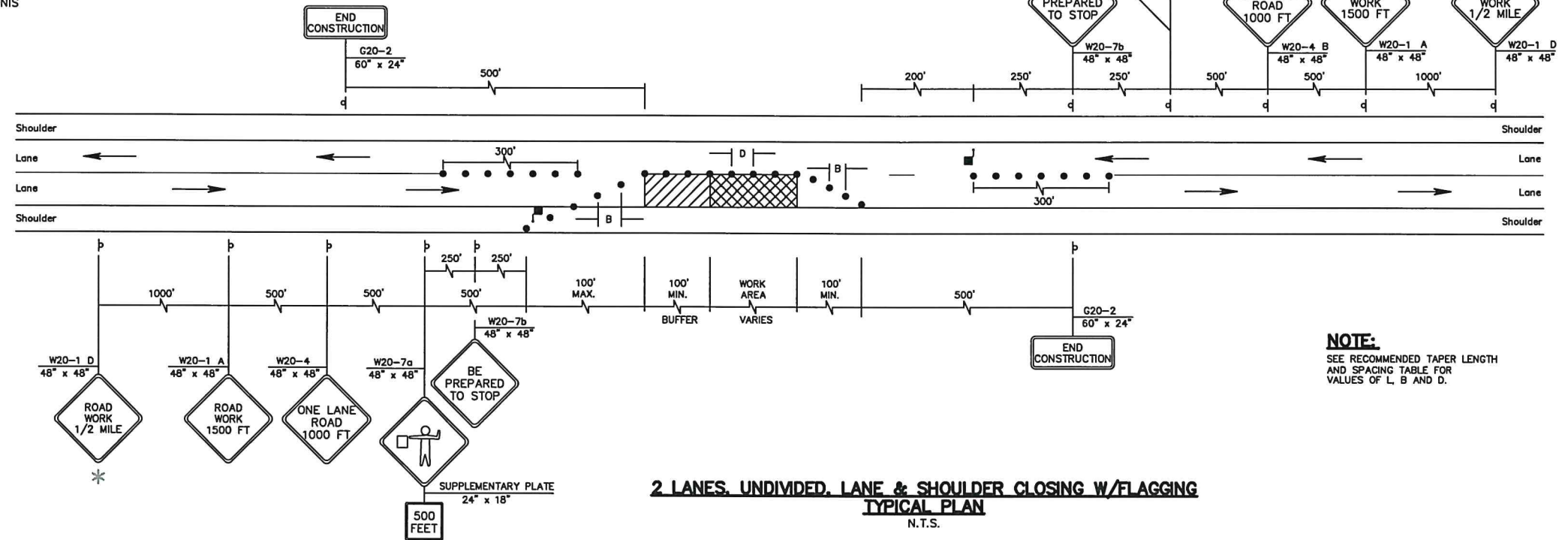
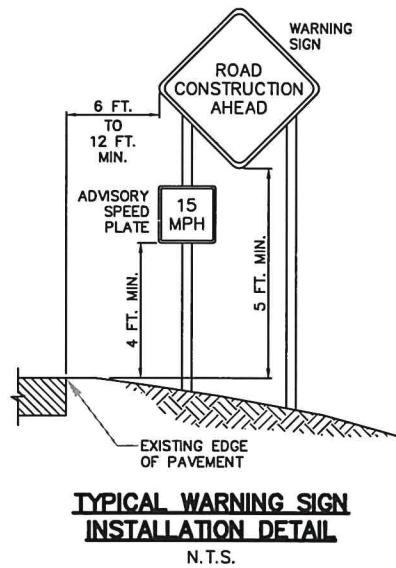
LEGEND:

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- CONE
- PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING CAUTION MODE
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
- TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
- TEMPORARY CRASH CUSHION, (all other approved)
- BUFFER ZONE
- WORK AREA
- PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE



REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS			RECOMMENDED SPACING ALONG TANGENTS	
	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L - FOR LANE WIDTHS		MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
25	10.5:1	105	115	25	50
30	15:1	150	165	30	60
35	20.5:1	205	225	35	70
40	27:1	270	300	40	80
45	45:1	450	495	45	90
50	50:1	500	550	50	100
55	55:1	550	605	55	110
60	60:1	600	660	60	120
65	65:1	650	715	65	130

NOTE:
THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.



NOTE:
SEE RECOMMENDED TAPER LENGTH AND SPACING TABLE FOR VALUES OF L, B AND D.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY: JCB
 DESIGN BY: JCB
 SCALE: N.T.S.
 DATE: 6/20/2022

TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

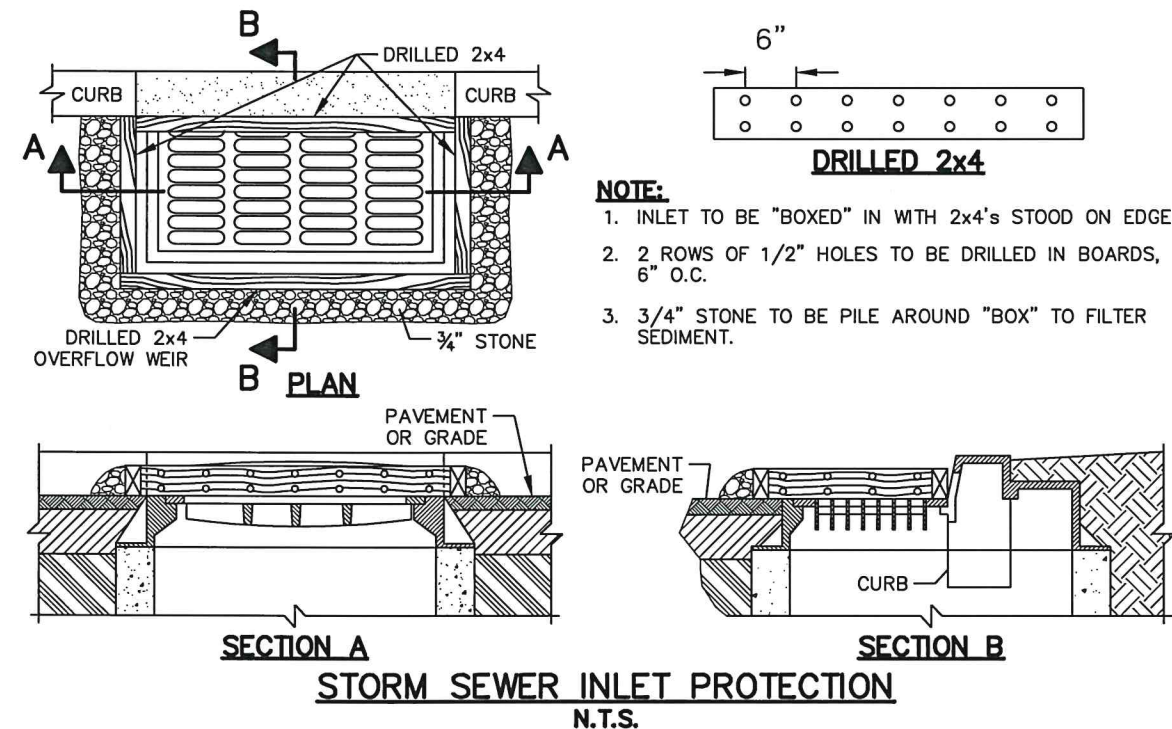
2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
TRAFFIC CONTROL PLAN

JOB No:
CONTRACT No: 2022-53
SHEET: 17 OF 18

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. The Freehold Soil Conservation District shall be notified seventy-two (72) hours in advance of any land disturbing activity.
2. All work is to be done in accordance with the State Standards for Soil Erosion and Sediment Control of New Jersey.
3. All Soil Erosion and Sediment Control practices are to be installed prior to any major soil disturbance, or in their proper sequence, and maintained until permanent protection is established.
4. Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control Plans to the District for re-certification. The revised plans must meet all current State Soil Erosion and Sediment Control Standards.
5. In that N.J.S.A 4:24-39 et. Seq. requires that no Certificates of Occupancy be issued before the provisions of the Certified Plan for Erosion Control have been complied with for permanent measures. All site work and all work around individual lots in subdivisions, will have to be completed prior to the District issuing a Report of Compliance for the issuance of a Certificate of Occupancy by the Municipality.
6. Any disturbed areas that will be left exposed more than thirty (30) days, and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of temporary cover, the disturbed areas will be mulched with straw, or equivalent material, at a rate of 2 to 2 1/2 tons per acre, according to State Standard for Stabilization with Mulch Only.
7. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. steep slopes and roadway embankments) will receive temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of 1 1/2 to 2 tons per acre, according to State Standards.
8. A sub-base course will be applied immediately following rough grading and installation of improvements to stabilize streets, roads, driveways, and parking areas. In areas where no utilities are present, the sub-base shall be installed within fifteen (15) days of the preliminary grading.
9. Any steep slopes receiving pipeline installation will be backfilled and stabilized daily, as the installation continues (i.e. slopes greater than 3:1).
10. The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed stone at points where traffic will be accessing the construction site. After interior roadways are paved, individual lots require a stabilized construction entrance consisting of one inch to two inch (1" - 2") stone for a minimum length of ten feet (10') equal to the lot entrance width. All other access points shall be blocked off.
11. All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public right-of-ways will be removed immediately.
12. Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading.
13. At the time that site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover shall be removed or treated in such a way that it will permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will not provide suitable conditions, non-vegetative means of permanent ground stabilization will have to be employed.
14. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or containing iron sulfides shall be covered with a minimum of twelve (12) inches of soil having a pH of 5 or more prior to seedbed preparation. Areas where trees or shrubs are to be planted shall be covered with a minimum of twenty-four (24) inches of soil having a pH of 5 or more.
15. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.
16. Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize sediment transfer. Any dewatering methods used must be in accordance with the Standard for Dewatering.
17. Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetative cover shall be established or mulch shall be applied as required by the Standard for Dust Control.
18. Stockpile and staging locations established in the field shall be placed within the limit of disturbance according to the certified plan. Staging and stockpiles not located within the limit of disturbance will require certification of a revised Soil Erosion and Sediment Control Plan. Certification of a new Soil Erosion and Sediment Control Plan may be required for these activities if an area greater than 5,000 square feet is disturbed.
19. All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control note #6.
20. The property owner shall be responsible for any erosion or sedimentation that may occur below stormwater outfalls or offsite as a result of construction of the project.

Freehold Soil Conservation District
 4000 Kozloski Road
 Freehold, NJ 07728
 (732) 683-8500, fax (732) 683-9140
 Email: info@freeholdscd.org.



- NOTE:**
1. INLET TO BE "BOXED" IN WITH 2x4's STOOD ON EDGE.
 2. 2 ROWS OF 1/2" HOLES TO BE DRILLED IN BOARDS, 6" O.C.
 3. 3/4" STONE TO BE PILE AROUND "BOX" TO FILTER SEDIMENT.

FILE NO. / DWG NAME: DETAIL SHEETS
 CAD DIR: FILE PATH: R:\01-CAPITAL IMPROVEMENT PROJECTS\2022-ANNUAL CURB REPLACEMENTS\01-Plan

NO.	DATE	DESCRIPTION	BY
REVISIONS			

DRAWN BY:
JCB
 DESIGN BY:
JCB
 SCALE:
N.T.S.
 DATE:
6/20/2022

TOWNSHIP OF OLD BRIDGE
DEPARTMENT OF ENGINEERING
 One Old Bridge Plaza
 Old Bridge, New Jersey 08857
 Tel. 732-721-5600 Fax 732-607-7978

Nicole Shapiro
NICOLE S. SHAPIRO
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE No. 24GE04622100

2022 ANNUAL CURB REPLACEMENT PROGRAM
CONTRACT #2022-53
SOIL EROSION & SEDIMENT CONTROL
NOTES & DETAILS

JOB No:
 CONTRACT No:
2022-53
 SHEET:
18 OF 18