

MICHIGAN AVENUE IMPROVEMENT PROJECT

ENTIRE LENGTH OF MICHIGAN AVENUE & FAITOUTE COURT

CITY OF SUMMIT UNION COUNTY, NEW JERSEY

SUMMARY OF QUANTITIES

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE SUMMIT POLICE DEPARTMENT 72 HOURS PRIOR TO THE START OF ANY WORK AND SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITHIN 30 DAYS OF THE DAY THE PROJECT IS AWARDED TO CONTRACTOR.

2. NO SEPARATE PAYMENT SHALL BE MADE FOR FLAGGERS. ALL COSTS FOR FLAGGERS SHALL BE INCLUDED IN VARIOUS ITEMS IN THE BID PROPOSAL.

3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN DENSE GRADED AGGREGATE OR HOT MIX ASPHALT TO PROVIDE A RIDING SURFACE FOR VEHICLE ACCESS TO EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.

4. THE ROAD IS TO BE PROOF ROLLED AFTER MILLING IS COMPLETED BUT BEFORE FINAL PAVING. PROOF ROLLING MUST BE COMPLETED WITH A LOADED DUMP TRUCK IN THE PRESENCE OF THE ENGINEER OR PROJECT INSPECTOR. ALL COSTS ASSOCIATED WITH PROOF ROLLING SHALL BE INCLUDED IN BID ITEM FOR MILLING.

5. THE CONTRACTOR SHALL LEAVE THE MILLED ROAD UNPAVED FOR AT LEAST 48 HOURS AND SHALL PROOF ROLL PRIOR TO PAVING. THE CONTRACTOR SHALL INSTALL HOT MIX ASPHALT BASE COURSE AS A TEMPORARY SURFACE IN AREAS DEEMED NECESSARY BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY PAVEMENT. ALL TEMPORARY PAVEMENT COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.

6. ALLOWABLE HOURS OF WORK ARE 8:00 AM TO 4:30 PM. THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIAL AND EQUIPMENT WITH THE ENGINEER AND THE POLICE DEPARTMENT. ALL COSTS FOR MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE BID ITEM "MOBILIZATION".

7. ALL TRAFFIC CONTROL AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND MUNICIPAL TRAFFIC ORDINANCES. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE POLICE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. TRAFFIC CONTROL PLANS SHALL INCLUDE AT A MINIMUM, THE FOLLOWING SITUATIONS: 1)ROAD CLOSED, 2)LANE CLOSED, SHOULDER CLOSED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THE PROJECT. ALL REQUESTS FOR POLICE SERVICE FROM THE CITY SHALL BE SUBMITTED 72 HOURS BEFORE BEGINNING CONSTRUCTION OPERATIONS THAT REQUIRE POLICE SERVICES. CONTRACTOR MUST NOTIFY POLICE DEPARTMENT OF CANCELLATIONS 24 HOURS IN ADVANCE OR WILL BE SOLELY RESPONSIBLE FOR A MINIMUM CHARGE OF (4) HOURS. THE CITY OF SUMMIT WILL PAY THE COST OF POLICE SERVICES DIRECTLY TO THE OFFICERS HIRED FOR THE SCHEDULED TIMES.

8. NO HOUSE LEADER DRAINS ARE TO BE INSTALLED UNDER DRIVEWAY APRONS OR THROUGH DROP CURBS.

9. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL UTILITIES TO RAISE OR LOWER MANHOLES, METERS, VALVES, ETC. TO GRADE AS WORK PROGRESSES. ALL COSTS FOR COORDINATION WITH UTILITY COMPANIES SHALL BE INCLUDED IN THE BID ITEM "UTILITY COORDINATION". THE LOCATIONS OF SUBSURFACE UTILITIES ARE APPROXIMATE AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A MARK OUT OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

10. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT/RESTORATION OF ANY SIDEWALK, CURB OR PAVEMENT WHICH IS DAMAGED DURING CONSTRUCTION. ALL REPLACEMENT/RESTORATION MUST BE COMPLETED BEFORE ACCEPTANCE OF THE PROJECT BY THE CITY AT NO ADDITIONAL COST.

11. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL TREES WITHIN THE PROJECT DURING CONSTRUCTION, UNLESS OTHERWISE NOTED. DAMAGE TO EXISTING TREES WILL BE EVALUATED BY THE CITY FORESTER. THE PROJECT SPECIFICATIONS IMPOSES A PENALTY OF \$500 PER INCIDENT OF DAMAGE TO ANY TREE. ALL COSTS RELATED TO TREE PROTECTION ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". ANY EXISTING TREES WHICH ARE COMPROMISED DURING EXCAVATION FOR CURB INSTALLATION SHALL BE EVALUATED BY THE CITY FORESTER, AND IF DEEMED APPROPRIATE, SHALL BE REMOVED BY THE CONTRACTOR. COST FOR TREE REMOVAL ARE TO BE INCLUDED IN THE BID ITEM "TREE REMOVAL, IF AND WHERE DIRECTED."

12. NO SEPARATE PAYMENT SHALL BE MADE FOR ANY SAW CUTTING REQUIRED ON THE PROJECT. COSTS FOR SAW CUTTING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID PROPOSAL.

13. THE CONTRACTOR IS RESPONSIBLE TO REPLACE/RESET ANY SPRINKLERS AND DOG FENCING DAMAGED/DISTURBED DURING CONSTRUCTION. THE COST FOR REPAIR/RESETTING SPRINKLERS AND REPAIRING DOG FENCING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNERS FOR THE LOCATION OF THE SPRINKLERS AND DOG FENCES PRIOR TO THE START OF WORK.

14. ALL COSTS ASSOCIATED WITH THE RESETTING OR REPLACEMENT OF ANY WALKWAYS CONSTRUCTED OF GRANITE BLOCK, BRICK, BRICK PAVERS, STONE, SLATE, ETC. SHALL BE INCLUDED IN THE BID ITEM FOR "CONCRETE SIDEWALK." NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION, RECONSTRUCTION OR RESETTING OF CURB ALONG THE SIDES OF A DRIVEWAY LEADING TO THE SIDEWALK WHERE CURBING CURRENTLY EXISTS.

15. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL ASSOCIATED WITH FULL DEPTH REPAIR. ALL COSTS ASSOCIATED WITH THE EXCAVATION, UNCLASSIFIED, AND DISPOSAL OF THE EXISTING SUBBASE AND PLACEMENT OF DENSE GRADED AGGREGATE SHALL BE INCLUDED IN THE BID ITEM "FULL DEPTH REPAIR, IF AND WHERE DIRECTED."

16. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL BEHIND THE CURB. ALL COSTS ASSOCIATED WITH THE REMOVAL OF ANY EXISTING MATERIAL BEHIND THE PROPOSED CURB SHALL BE INCLUDED IN THE BID ITEM "GRANITE BLOCK CURB".

17. NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. ALL COSTS ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". INLET FILTERS SHALL BE INSTALLED AT ALL EXISTING OR NEW CATCH BASINS AND SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED AND THE SURFACE COURSE IS INSTALLED.

18. THE CONTRACTOR IS RESPONSIBLE FOR THE STAKEOUT AND LAYOUT OF THE PROJECT. THE STAKEOUT AND LAYOUT IS TO BE PERFORMED BY A NEW JERSEY PROFESSIONAL LAND SURVEYOR. ALL COSTS ASSOCIATED WITH THE STAKEOUT AND LAYOUT OF THE PROJECT ARE TO BE INCLUDED IN THE BID ITEM "CONSTRUCTION LAYOUT". ALL GRADES ARE TO BE SET IN THE FIELD BY THE LAND SURVEYOR. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER A PROFILE WITH THE SET GRADES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROFILE IS SUBJECT TO THE APPROVAL OF THE ENGINEER.

19. SHOP DRAWINGS ARE TO BE SUBMITTED AT A MINIMUM OF THREE (3) WEEKS PRIOR TO CONSTRUCTION FOR ALL PROPOSED DRAINAGE STRUCTURES, SIGNS & POSTS, ANY CONCRETE FOOTINGS AND RRFB SETUPS. ALL DRAINAGE STRUCTURES AND FOOTINGS MUST BE DESIGNED BY A NEW JERSEY PROFESSIONAL ENGINEER. ALL SHOP DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

20. SITE SURVEY PROVIDED BY STONEFIELD ENGINEERING & DESIGN, (201)340 - 4468. SUPPLEMENTAL TOPOGRAPHY ALONG FAITOUTE COURT SHOWN HEREIN IS BASED ON THE CITY'S AERIAL TOPOGRAPHY.

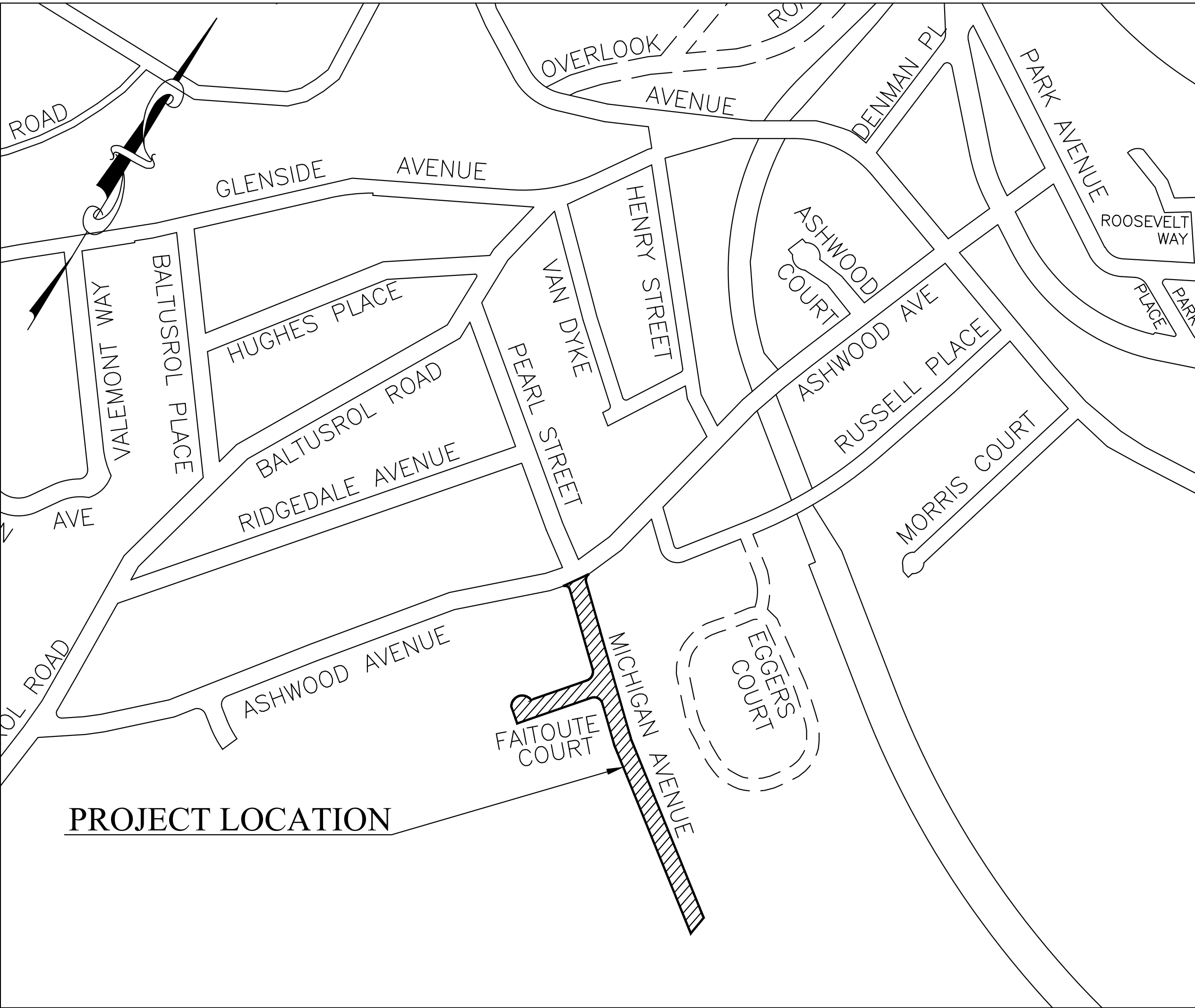
21. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019" AND ALL APPLICABLE AMENDMENTS.

22. ALL REGULATORY, WARNING, AND GUIDE SINGS, AS WELL AS STREET NAME SIGNAGE, WITHIN PROJECT LIMITS ARE TO BE REPLACED WITH NEW PLAQUES AND POSTS, UNLESS NOTED OTHERWISE.

23. ANY TYPE 'B' OR TYPE 'D' INLETS IDENTIFIED HEREIN FOR RECONSTRUCTION SHALL INCLUDE NEW NEW TYPE 'N' ECO-HEAD CURB PIECE AND BICYCLE SAFE GRATE. ALL COSTS ARE TO BE INCLUDED IN THE BID ITEM FOR RECONSTRUCTED INLET.

24. ANY PROPOSED PAVEMENT THICKNESS NOTED HEREIN SHALL BE POST-COMPACTION, UNLESS OTHERWISE NOTED.

25. ALL PAVEMENT STRIPING & MARKINGS SHALL BE THERMOPLASTIC PER NJDOT STANDARDS.



LOCATION MAP
N.T.S.

UTILITIES

Public Service Electric & Gas Co.
48 Middle Avenue
Summit, NJ 07901

Jersey Central Power and Light
300 Madison Avenue
Morristown, NJ 07960

Comcast Cablevision of New Jersey
300 Rahway Avenue 07901
Union, NJ 07083

Verizon
445 Georges Road
North Brunswick, NJ 08902

City of Summit
Division of Public Works
41 Chatham Road
Summit, NJ 07901

New Jersey American Water Co.
167 JFK Parkway
Short Hills, NJ 07078

Project Safety Note:

The contractor(s) working on the project are responsible to ensure that all safety regulations of the Occupational Safety and Health Administration (OSHA) and the requirements of the State of New Jersey Department of Labor and Industry shall be adhered to on this project and that he or she shall instruct his or her personnel to follow these regulations. These regulations include, but are not limited to, the regulations concerning Trench Excavation, Competent Persons and Confined Space Regulations.

Specifications Note:

New Jersey Department of Transportation Standard Specifications for Road and Bridge Construcion 2019 and all of its amendments and Baseline Document Changes are to govern all construction here in.

BASE BID ITEM	DESCRIPTION	UNIT	QTY
<i>GENERAL WORK</i>			
1	MOBILIZATION	LS	1
2	CLEARING SITE	LS	1
3	FINAL CLEANUP	LS	1
4	BREAKAWAY BARRICADE	UNIT	2
5	DRUM	UNIT	10
6	TRAFFIC CONE	UNIT	20
7	CONSTRUCTION SIGNS	SF	25
8	CONSTRUCTION IDENTIFICATION SIGNS, 18" X 36"	UNIT	1
9	CONSTRUCTION LAYOUT	LS	1
10	UTILITY COORDINATION	LS	1
11	INLET FILTERS, TYPE 1	SF	56
12	FUEL PRICE ADJUSTMENT	ALLOW	ALLOW
<i>ROADWAY, CURBING & ADA</i>			
13	HMA MILLING, 2" OR LESS	SY	3,000
14	FULL DEPTH REPAIR, IF AND WHERE DIRECTED	SY	300
15	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	450
16	EXCAVATION, TEST PIT	CY	25
17	EXCAVATION, UNCLASSIFIED	CY	100
18	GRANITE BLOCK CURB	LF	2,300
19	CONCRETE SIDEWALK, 4" THICK	SY	20
20	DETECTABLE WARNING SURFACE	SY	3
21	GRAVEL DRIVEWAY, 8" THICK	SY	34
22	HOT MIX ASPHALT DRIVEWAY 6" THICK	SY	400
23	TRAFFIC STRIPES, 4" THICK	LF	650
<i>UTILITIES</i>			
24	RESET MANHOLE, SANITARY SEWER, USING NEW CASTING	UNIT	8
25	VIDEO INSPECTION OF SEWER	LF	1,200
26	SET MANHOLE CASTING	UNIT	5
27	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	3
28	INLET TYPE B	UNIT	4
29	MANHOLE, 4' DIAMETER	UNIT	1
30	RECONSTRUCT MANHOLE, IF AND WHERE DIRECTED	UNIT	2
31	4" SCHEDULE 40 PVC PIPE	LF	16
32	10" HDPE PIPE	LF	25
33	15" REINFORCED CONCRETE PIPE, CLASS IV	LF	232
34	24" REINFORCED CONCRETE PIPE, CLASS IV	LF	252
35	VIDEO INSPECTION OF PIPE	LF	1,000
36	RESET GAS VALVE BOX	UNIT	10
37	RESET WATER VALVE BOX	UNIT	10
<i>LANDSCAPING</i>			
38	TOP SOIL SPREADING, 5" THICK	SY	1000
39	BORROW TOPSOIL	CY	20
40	FERTILIZING AND SEEDING, TYPE A-3,	SY	1000
41	REMOVAL OF PAVEMENT	SY	150
42	TREE REMOVAL, OVER 6" to 36", IF AND WHERE DIRECTED	UNIT	6
43	TREE REMOVAL, OVER 36", IF AND WHERE DIRECTED	UNIT	3
44	1-14 SOL AGGREGATE	CY	20
<i>STREET SIGNS</i>			
45	GUIDE SIGN, TYPE GA, BREAKAWAY SUPPORTS	SF	70
46	REGULATORY AND WARNING SIGN	SF	70
47	STREET NAME SIGN POSTS	UNIT	1

REVISIONS	
NO.	DATE
DESCRIPTION	

MICHIGAN AVENUE IMPROVEMENT PROJECT ENTIRE LENGTH OF MICHIGAN AVENUE & FAITOUTE COURT COVER SHEET

CITY OF SUMMIT UNION CO., N.J.
DIVISION OF ENGINEERING
DEPARTMENT OF COMMUNITY SERVICES
512 SPRINGFIELD AVENUE
SUMMIT NJ 07901
UNION COUNTY

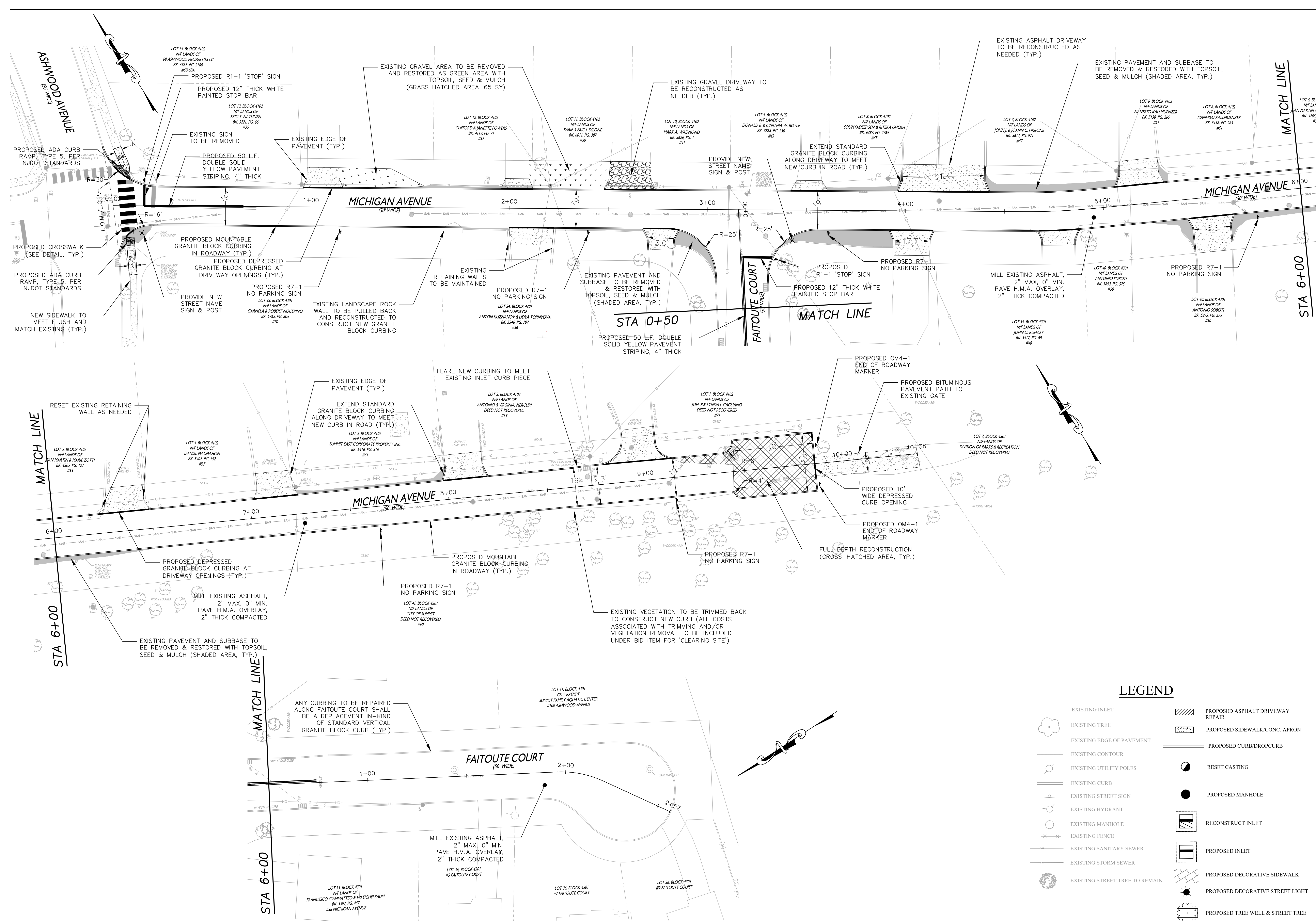
A. J. Schragger
Aaron J. Schragger
Professional Engineer
New Jersey Lic. No. 46143
City Engineer



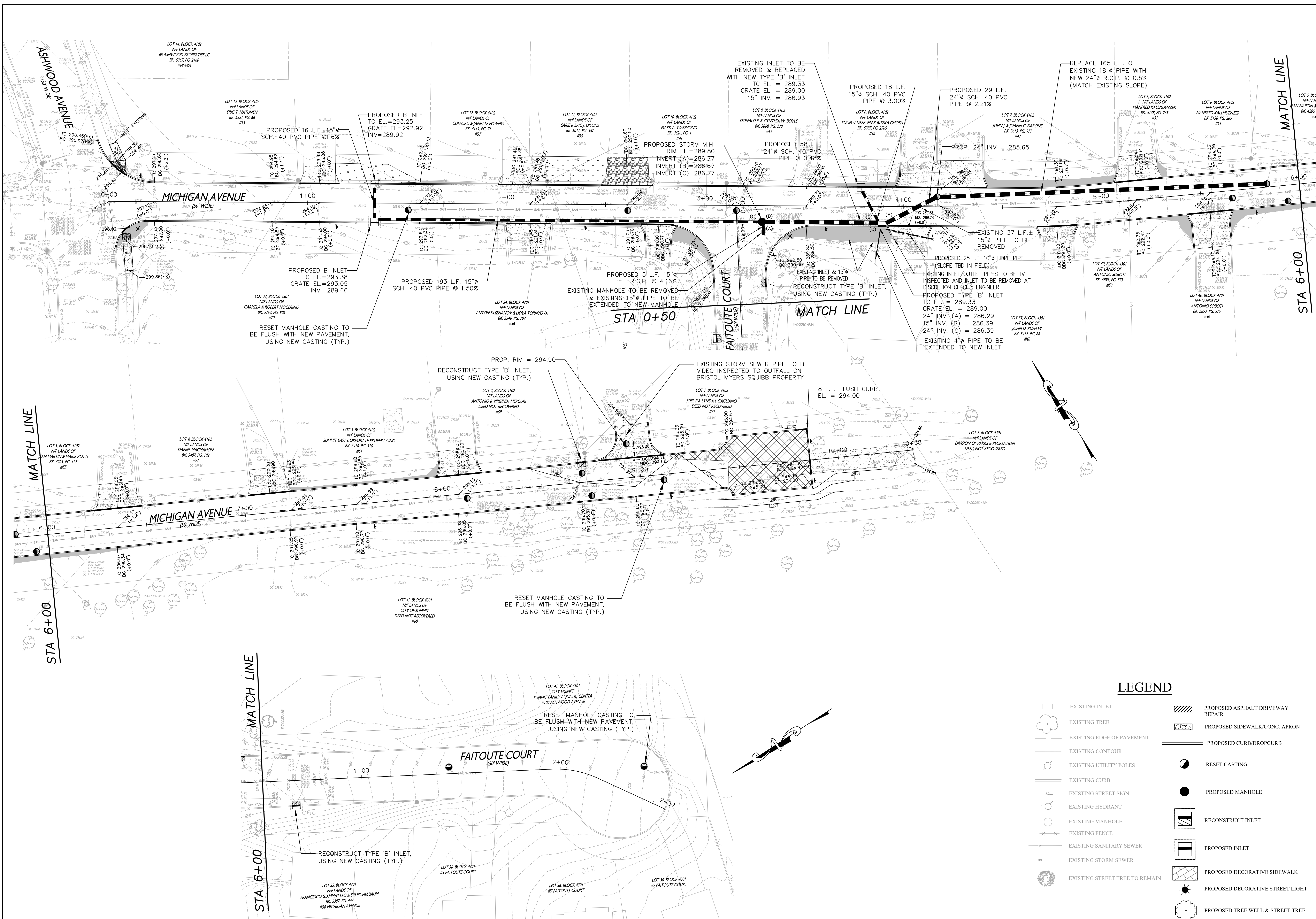
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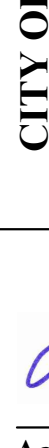
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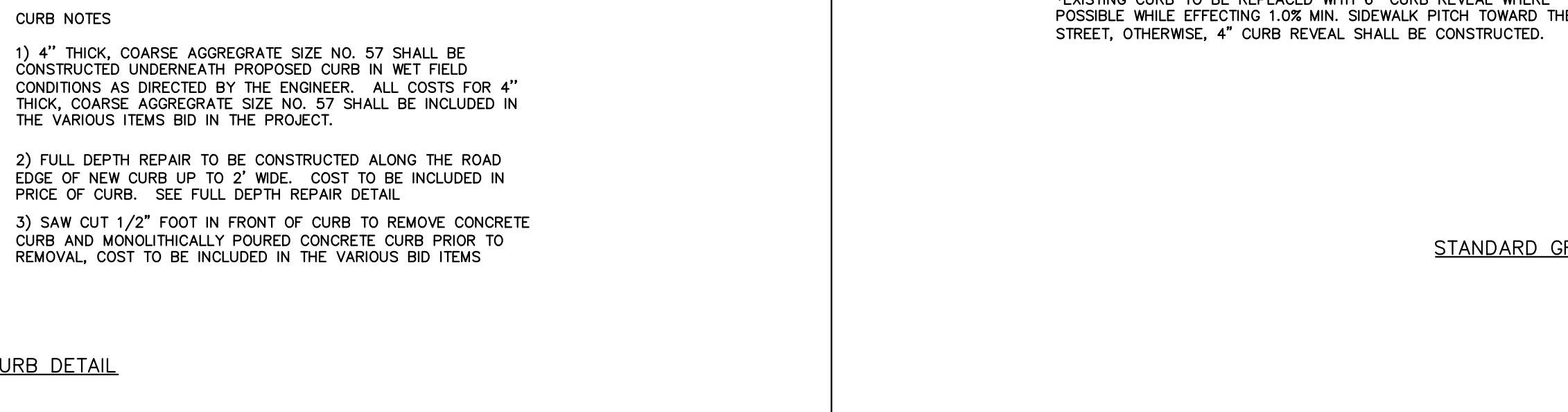
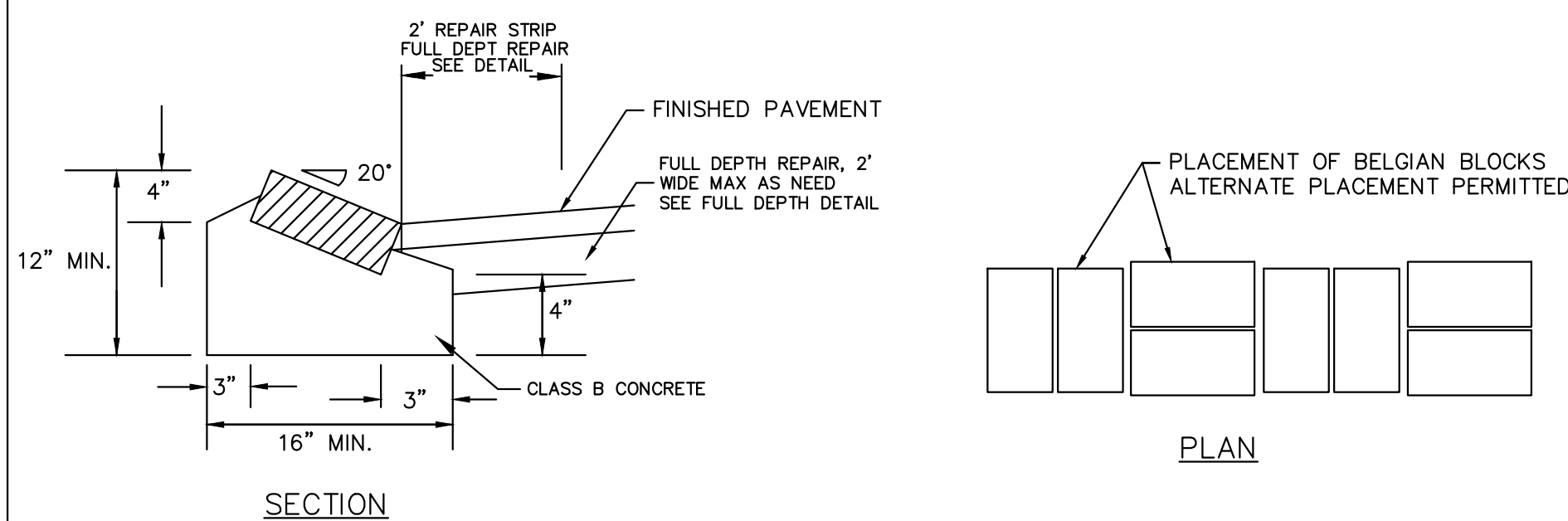
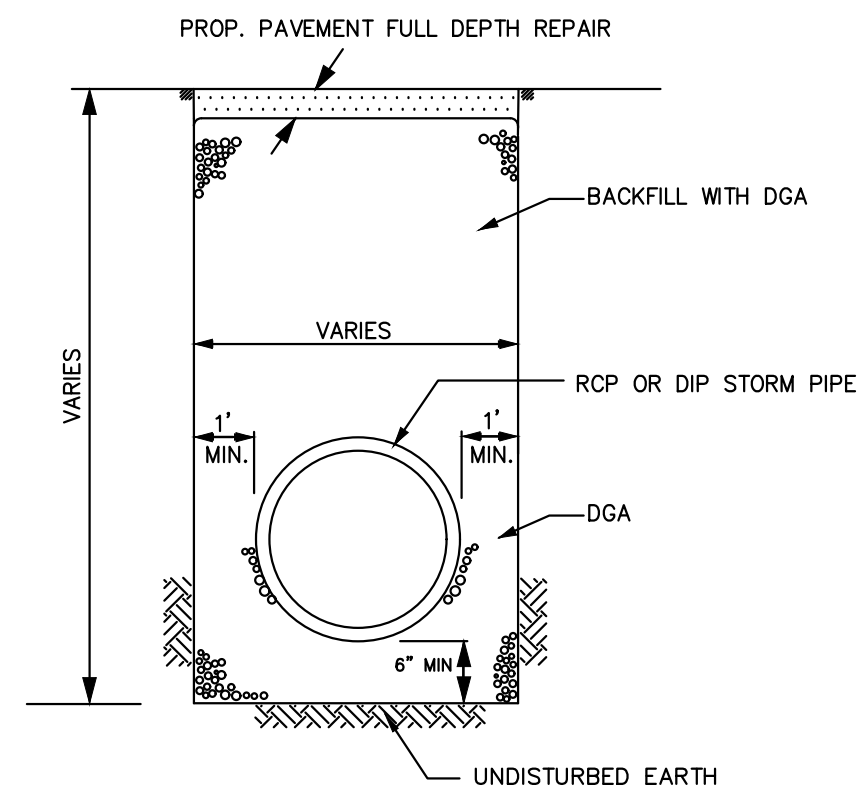
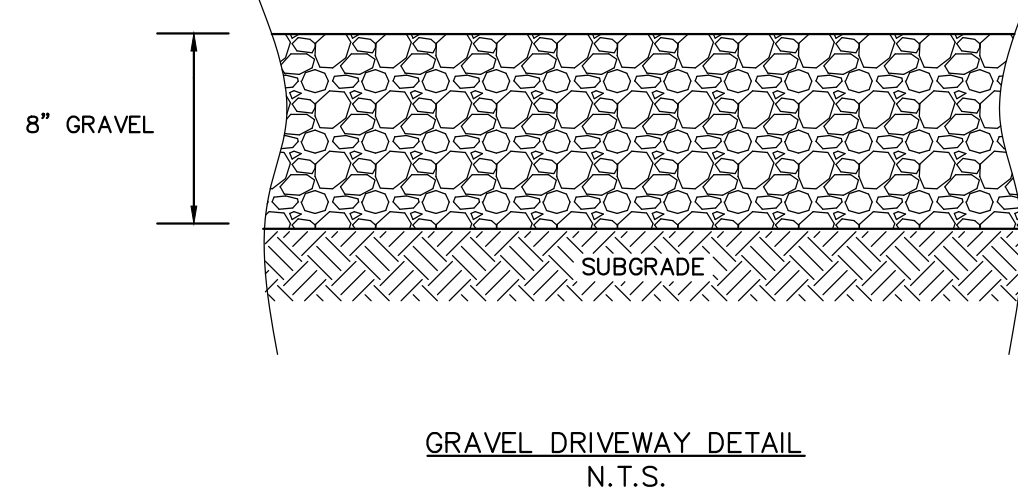
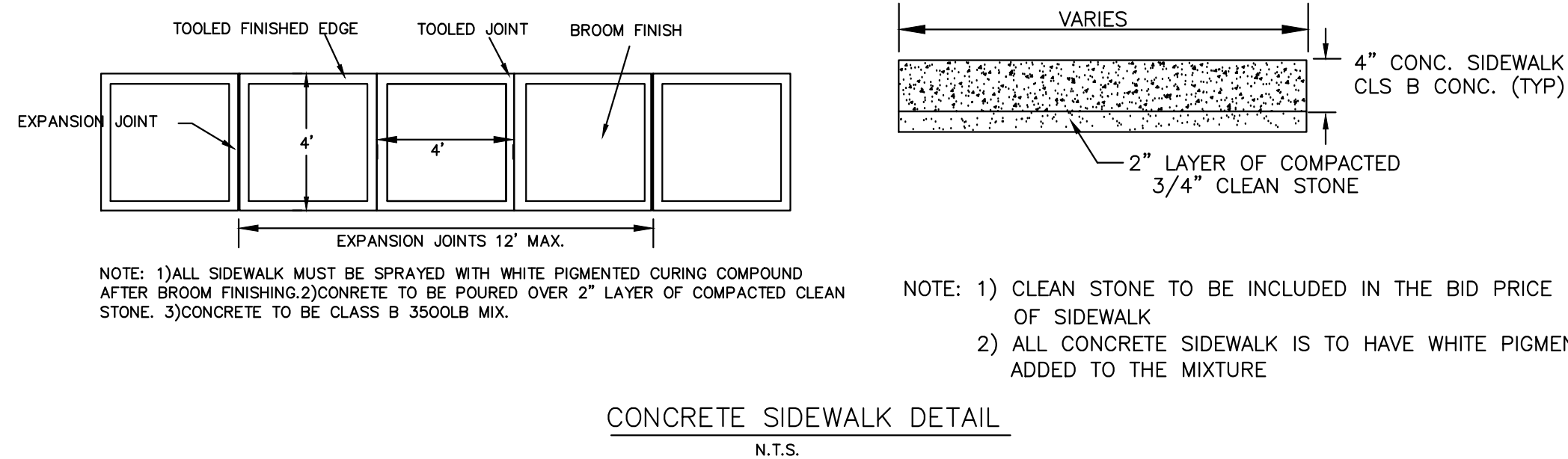
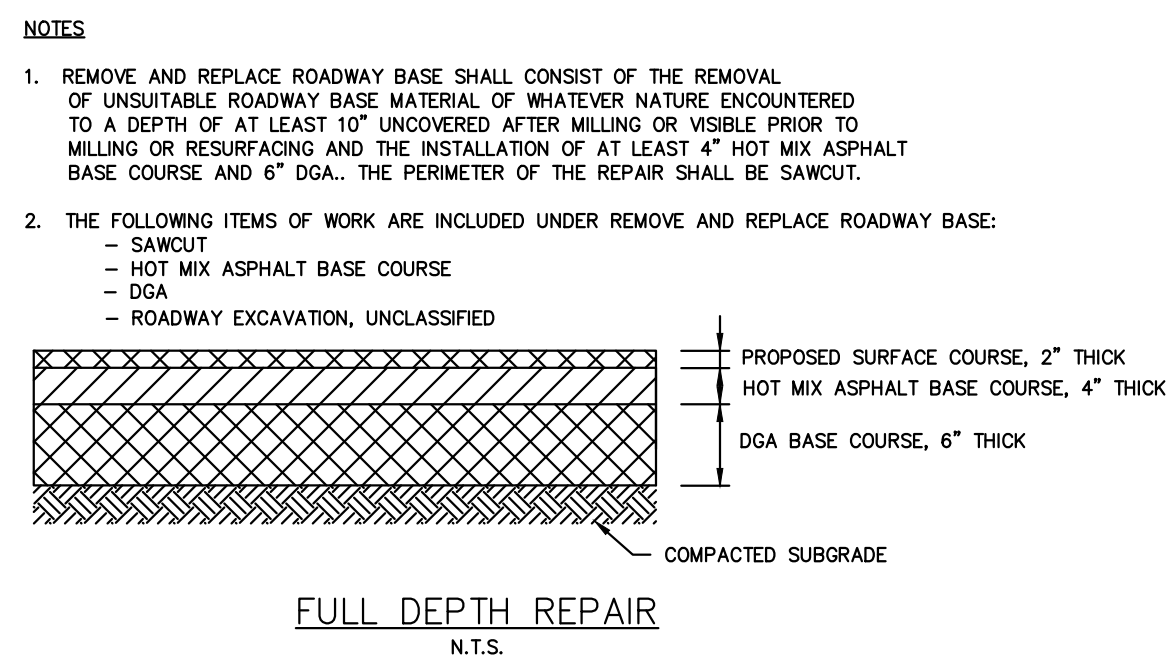
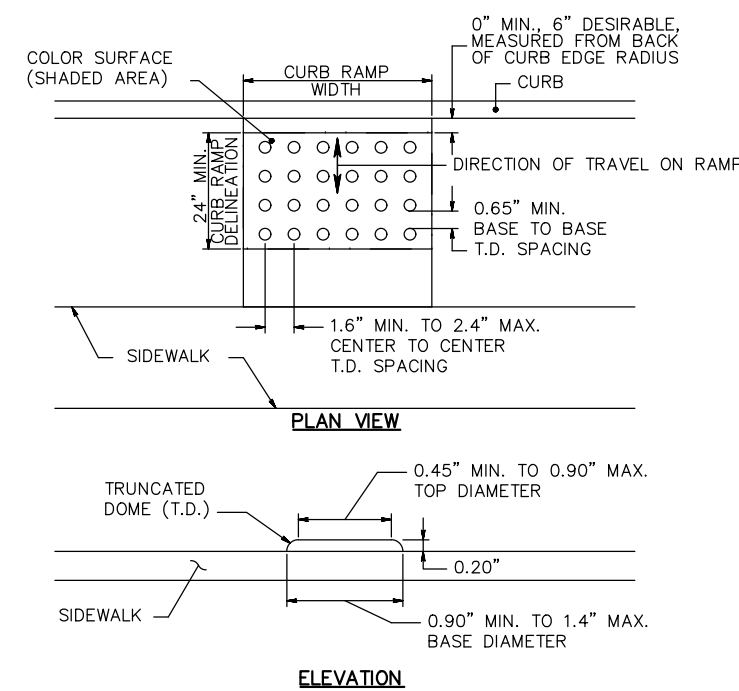
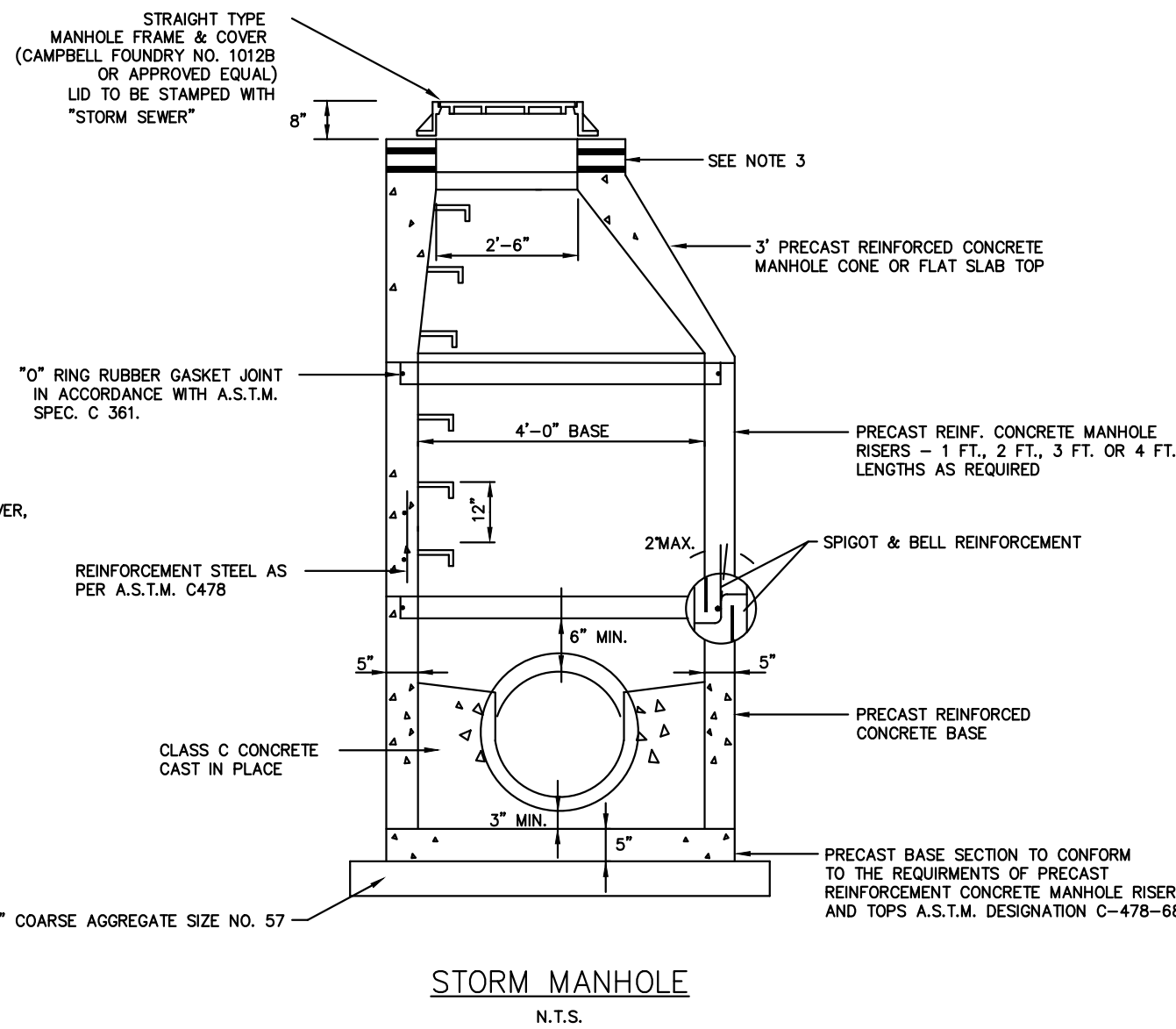
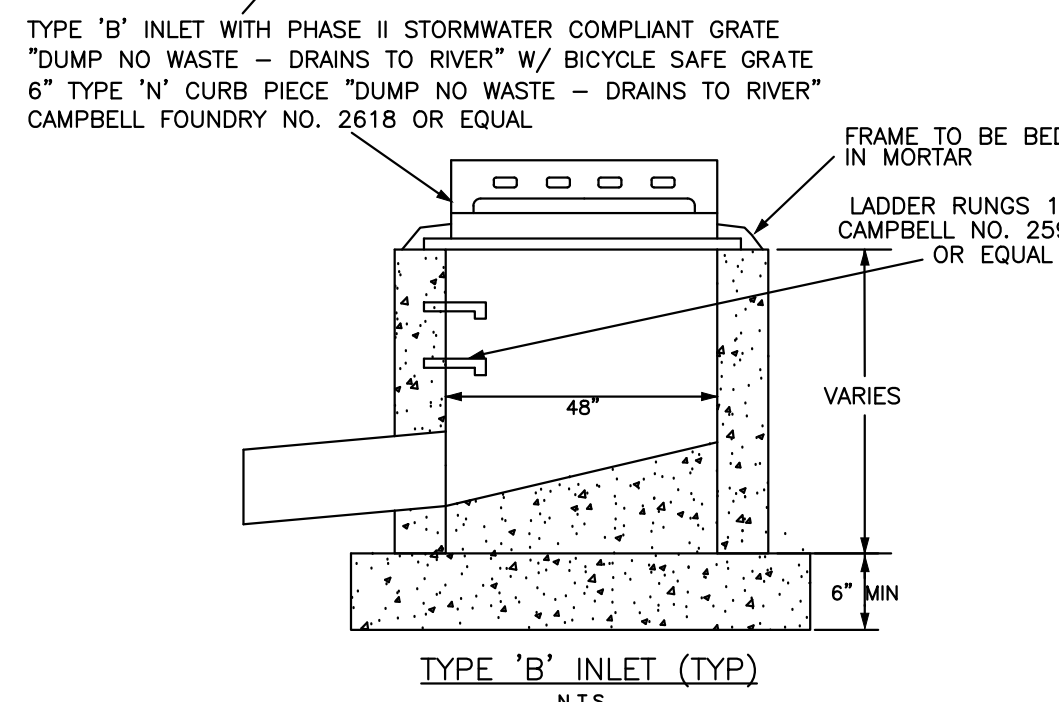
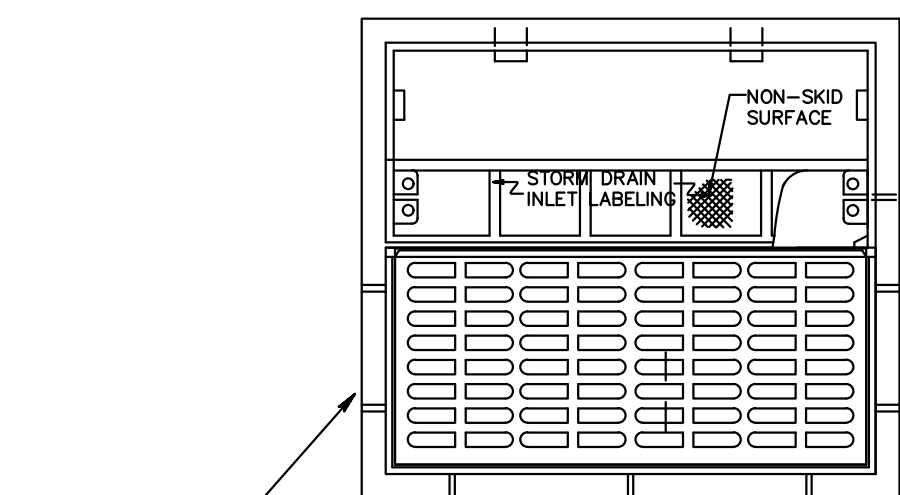
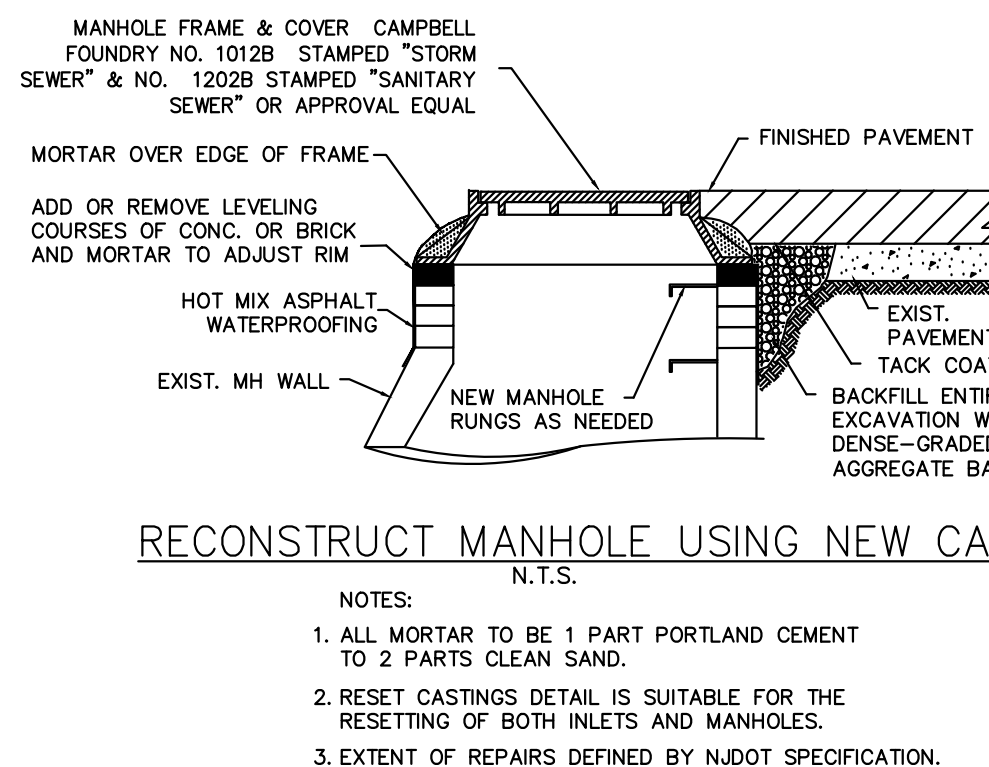
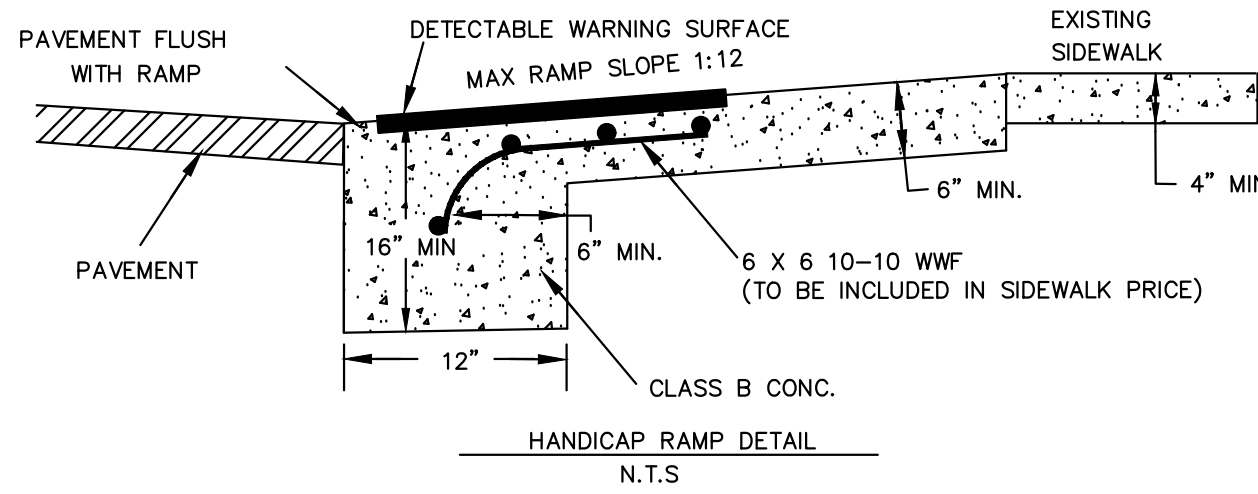
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MICHIGAN AVENUE IMPROVEMENT PROJECT ENTIRE LENGTH OF MICHIGAN AVENUE & FAIRROUTE COURT GRADING & DRAINAGE PLAN		NO. DATE		REVISIONS
		DESCRIPTION		
CITY OF SUMMIT UNION CO., N.J. DIVISION OF ENGINEERING DEPARTMENT OF COMMUNITY SERVICES 512 SPRINGFIELD AVENUE SUMMIT NJ 07901 UNION COUNTY				DATE: 3/7/2022
		Aaron J. Schragger Professional Engineer New Jersey Lic. No. 46143 City Engineer		
		DRAWN BY: SK		
SCALE 1"=20'		3 OF 7		

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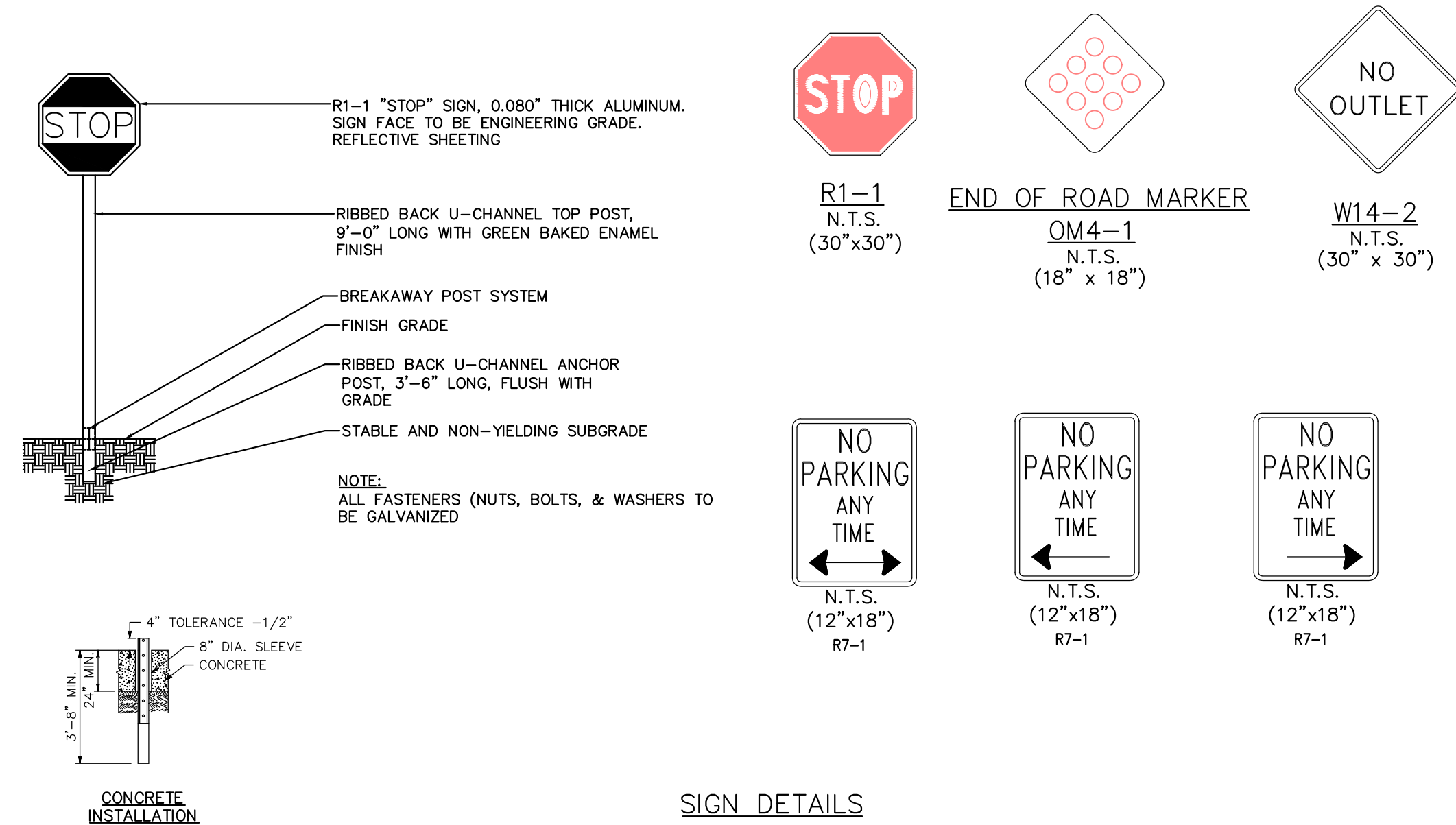
SECTION D-D

CURB RAMP TYPE 2, 5 OR 6	
H INCHES	W FEET
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING.
3. IF BOTTOM OF ROADWAY IS BELOW TOP OF INLET GRATE, CONSTRUCT PROPERLY FILTERED OPENING(S) IN INLET WALL TO ALLOW PASSAGE OF WATER.
4. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

INLET FILTER DETAIL
N.T.S.



STREET SIGN DETAILS: 9" SIGN (D3-1)
N.T.S.



Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

ROUTE SURVEY

MAP OF SURVEY OF:

**MICHIGAN AVENUE
CITY OF SUMMIT
COUNTY OF UNION, NEW JERSEY**

2	5/20/2022	DJS	4/12/2022	JD	ADD WATER / GAS UTILITIES
1	12/20/2021	DJS	12/01/2021	JD	FOR ISSUE
ISSUE	DATE	BY	FIELD DATE	FIELD CREW	DESCRIPTION

SUBJECT TO RESTRICTIONS, EASEMENTS OF RECORD AND OTHER FACTS WHICH A CURRENT TITLE SEARCH MIGHT DISCLOSE.

THOMAS F. MILLER
KEY LAND SURVEYOR No. 24GS03626400
LICENSED PROFESSIONAL LAND SURVEYOR
CERTIFICATE OF AUTHORIZATION No. 24GA28184500

SCALE: 1"=20' **PROJECT ID:** PRI-210202 **SHEET:** 1 OF 1