

BUTLER PARKWAY IMPROVEMENT PROJECT

MORRIS AVENUE TO RIVER ROAD CITY OF SUMMIT UNION COUNTY, NEW JERSEY

Survey Note:

The contractor is responsible for stakeout and vertical control of the project. Stakeout is required for the project. AutoCAD drawings are available for this project upon request. Cut sheets shall be submitted prior to the start of any work.

Specifications Note:

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

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 AT THE ENGINEER'S DISCRETION. PROOF ROLLING MUST BE COMPLETED WITH A LOADED DUMP TRUCK IN THE PRESENCE OF THE ENGINEER OR PROJECT INSPECTOR. COSTS SHALL BE INCLUDED IN BID ITEM FOR MILLING.

5. THE CONTRACTOR SHALL LEAVE THE MILLED ROAD UNPAVED FOR 24 HOURS AND 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 START TIME IS 8:00 AM FOR ALL WORK. 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 "PARKING AND MATERIAL STORAGE".

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, 3) SHOULDER CLOSED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THE PROJECT. ANY COSTS ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.

8. NO DRAINS ARE TO BE INSTALLED UNDER DRIVEWAY APRONS OR THROUGH DROP CURBS. ALL EXISTING LEADER DRAINS MUST BE EXTENDED TO THE NEW CURB LOCATION.

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 VARIOUS BID ITEMS OF THE PROJECT. 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 REPLACEMENT OF ANY DAMAGED CONCRETE BEFORE ACCEPTANCE OF THE PROJECT BY THE CITY AT NO ADDITIONAL COST. THIS INCLUDES CONCRETE THAT WAS MARKED, STEPPED IN OR STAMPED ONCE Poured, BUT PRIOR TO SETTING.

11. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL TREES WITHIN THE PROJECT DURING CONSTRUCTION. DAMAGE TO EXISTING TREES WILL BE EVALUATED BY THE CITY FORESTER. THE PROJECT SPECIFICATIONS IMPOSE 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".

12. NO SEPARATE PAYMENT SHALL BE MADE FOR ANY MANUAL SAW CUTTING REQUIRED ON THE PROJECT, USING A HANDHELD DEMOLITION SAW. COSTS FOR SAW CUTTING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID PROPOSAL. SAWCUTTING, USING A ROAD SAW CUTTING MACHINE SHALL BE PAID UNDER THE APPROPRIATE ITEMS NOTED PER THE NJDOT SPECIFICATIONS.

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. NO SEPARATE PAYMENT SHALL BE MADE FOR THE RESETTING OR REPLACEMENT OF ANY WALKWAYS CONSTRUCTED OF GRANITE BLOCK, BRICK, BRICK PAVERS, STONE, SLATE, ETC. NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION OF CURB ALONG DRIVEWAY APRONS AND DRIVEWAYS WHERE CURBING CURRENTLY EXISTS. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

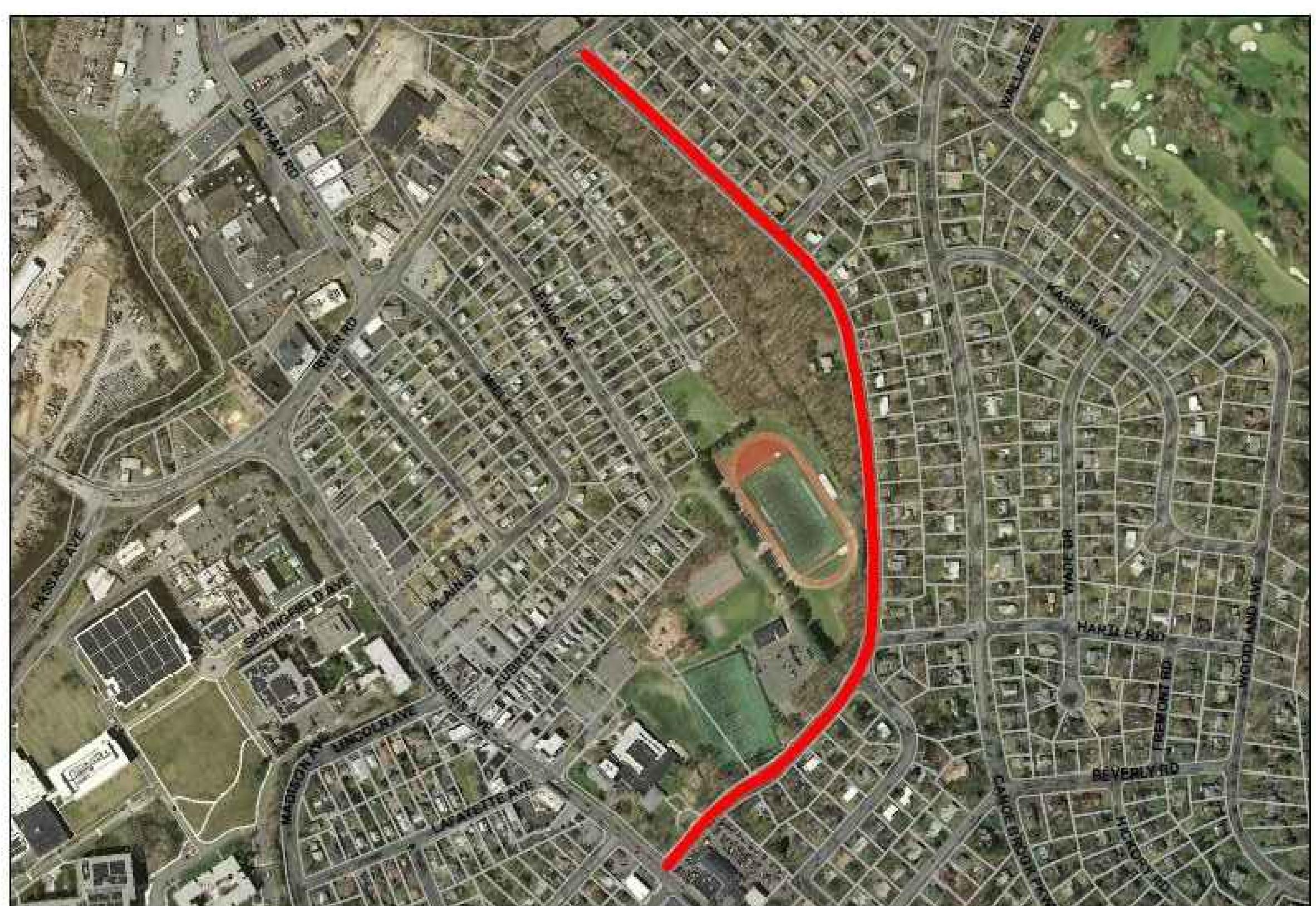
15. NO SEPARATE PAYMENT SHALL BE MADE FOR EXCAVATION, UNCLASSIFIED, IN AREAS WITH UNSUITABLE SUB-BASE OR WHERE NO SUB-BASE EXISTS. ALL UNSUITABLE AREAS SHALL BE REMOVED AND REPLACED WITH DENSE GRADED AGGREGATE WHERE DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THE EXCAVATION AND DISPOSAL OF THE EXISTING SUB-BASE AND PLACEMENT OF DENSE GRADED AGGREGATE SHALL BE INCLUDED IN THE BID ITEM "FULL DEPTH REPAIR, IF AND WHERE DIRECTED".

16. 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. ADJUSTMENTS CAN BE MADE IN THE FIELD DURING CONSTRUCTION UPON CONSULTATION WITH THE CITY ENGINEER.

17. SHOP DRAWINGS IF ANY ARE TO BE SUBMITTED AT A MINIMUM OF THREE (3) WEEKS PRIOR TO CONSTRUCTION FOR ALL PROPOSED DRAINAGE STRUCTURES. ALL SHOP DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

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

19. REMOVAL OF EXISTING PEDESTRIAN LIGHT AND POLE SHALL INCLUDE ITS DELIVERY TO 41 CHATHAM ROAD AND THE REMOVAL OF THE EXISTING FOOTING AND ALL OTHER NECESSARY WORK.



CITY OF SUMMIT - Division of Engineering

Butler Parkway - MA-2019-00210

September 2018

0 295 590 1,180 Feet

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET-KEY MAP
2-3	EXISTING CONDITIONS SURVEY (PROVIDED BY MOTT MACDONALD)
4-6	CONSTRUCTION PLANS
7-9	GRADING, DRAINAGE AND SIGN PLANS
10-12	SOIL EROSION & SEDIMENT CONTROL PLANS
13-15	DETAIL SHEETS

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
800 Rahway Avenue
Union, NJ 07083

Verizon
445 Georges Road
North Brunswick, NJ 08902

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

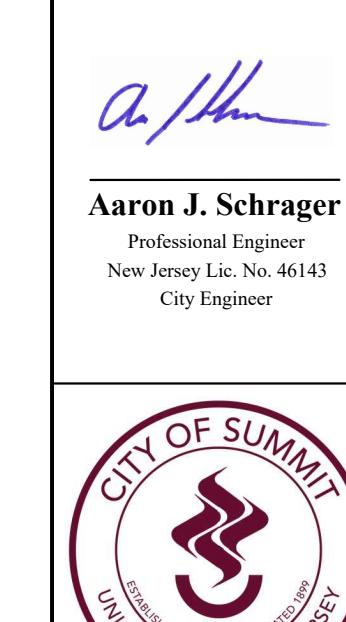
New Jersey American Water Co.
167 JFK Parkway
Short Hills, NJ 07078

Funding Note:
This project is funded by the City of Summit & a NJDOT Safe Streets to Transit Grant

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.

ITEM	DESCRIPTION	UNIT	QTY
GENERAL WORK			
1	MOBILIZATION	LS	LS
2	CLEARING SITE	LS	LS
3	FINAL CLEANUP	LS	LS
4	BREAKAWAY BARRICADE	UNIT	4
5	DRUM	UNIT	10
6	TRAFFIC CONE	UNIT	20
7	CONSTRUCTION SIGNS	SF	100
8	CONSTRUCTION IDENTIFICATION SIGNS, 18" X 36"	UNIT	2
9	CONSTRUCTION LAYOUT	LS	LS
10	UTILITY COORDINATION	LS	LS
11	INLET FILTER, TYPE 1	UNIT	19
12	FUEL PRICE ADJUSTMENT	ALLOW	ALLOW
13	ASPHALT PRICE ADJUSTMENT	ALLOW	ALLOW
ROADWAY, CURBING & ADA			
14	EXCAVATION, TEST PIT	CY	25
15	EXCAVATION, UNCLASSIFIED	CY	350
16	GRANITE CURB	LF	3,700
17	RESET GRANITE CURB	LF	2500
18	CONCRETE SIDEWALK, 4" THICK	SY	50
19	DETECTABLE WARNING SURFACE	SY	2
20	CONCRETE DRIVEWAY, 6" THICK	SY	20
21	HOT MIX ASPHALT DRIVEWAY 5" THICK	SY	600
22	HMA MILLING, 3" OR LESS	SY	14,000
23	TACK COAT	GAL	2,100
24	HOT MIX ASPHALT PAVEMENT REPAIR	SY	50
25	HOT MIX ASPHALT 12.5M64 SURFACE COURSE	TON	2,000
26	TRAFFIC MARKINGS LINES, 4"	LF	17,000
UTILITIES			
27	RESET MANHOLE, SANITARY SEWER, USING NEW CASTING	UNIT	2
28	VIDEO INSPECTION OF SEWER	LF	3,286
29	SET MANHOLE CASTING	UNIT	11
30	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	9
31	INLET TYPE B	UNIT	11
32	MANHOLE, 4' DIAMETER	UNIT	3
33	15" REINFORCED CONCRETE PIPE, CLASS IV	LF	20
34	INLET CONVERTED TO MANHOLE	UNIT	1
35	VIDEO INSPECTION OF PIPE	UNIT	2,661
36	RESET GAS VALVE BOX	UNIT	36
37	RESET WATER VALVE BOX	UNIT	36
LANDSCAPING			
38	BORROW TOPSOIL	CY	355
39	TOP SOIL SPREADING, 4" THICK	SY	3200
40	FERTILIZING AND SEEDING, TYPE A-3,	SY	3200
41	I-14 SOIL AGGREGATE	CY	350
STREET SIGNS			
42	STREET NAME SIGN POSTS	UNIT	5
ALT BASE BID A "SIDEWALK" - THESE ITEMS FULLY REPLACE THOSE INCLUDED IN THE BASE BID			
18A	CONCRETE SIDEWALK, 4" THICK	SY	1650
19A	DETECTABLE WARNING SURFACE	SY	12
20A	CONCRETE DRIVEWAY, 6" THICK	SY	200
21A	HOT MIX ASPHALT DRIVEWAY, 5" THICK	SY	200
38A	BORROW TOPSOIL	CY	265
39A	TOP SOIL SPREADING, 4" THICK	SY	2400
40A	FERTILIZING AND SEEDING, TYPE A-3,	SY	2400
41A	I-14 SOIL AGGREGATE	CY	175
ALT BID 1 "RRFB SYSTEM"			
1A	RECTANGULAR RAPID FLASHING BEACON SYSTEM	UNIT	2
ALT BID 2 "RAISED INTERSECTION"			
2A	VERTICAL RAISED INTERSECTION, 3"	LF	500
2B	TRAFFIC STRIPES, 4" THICK	SF	300
2C	REGULATORY AND WARNING SIGN		



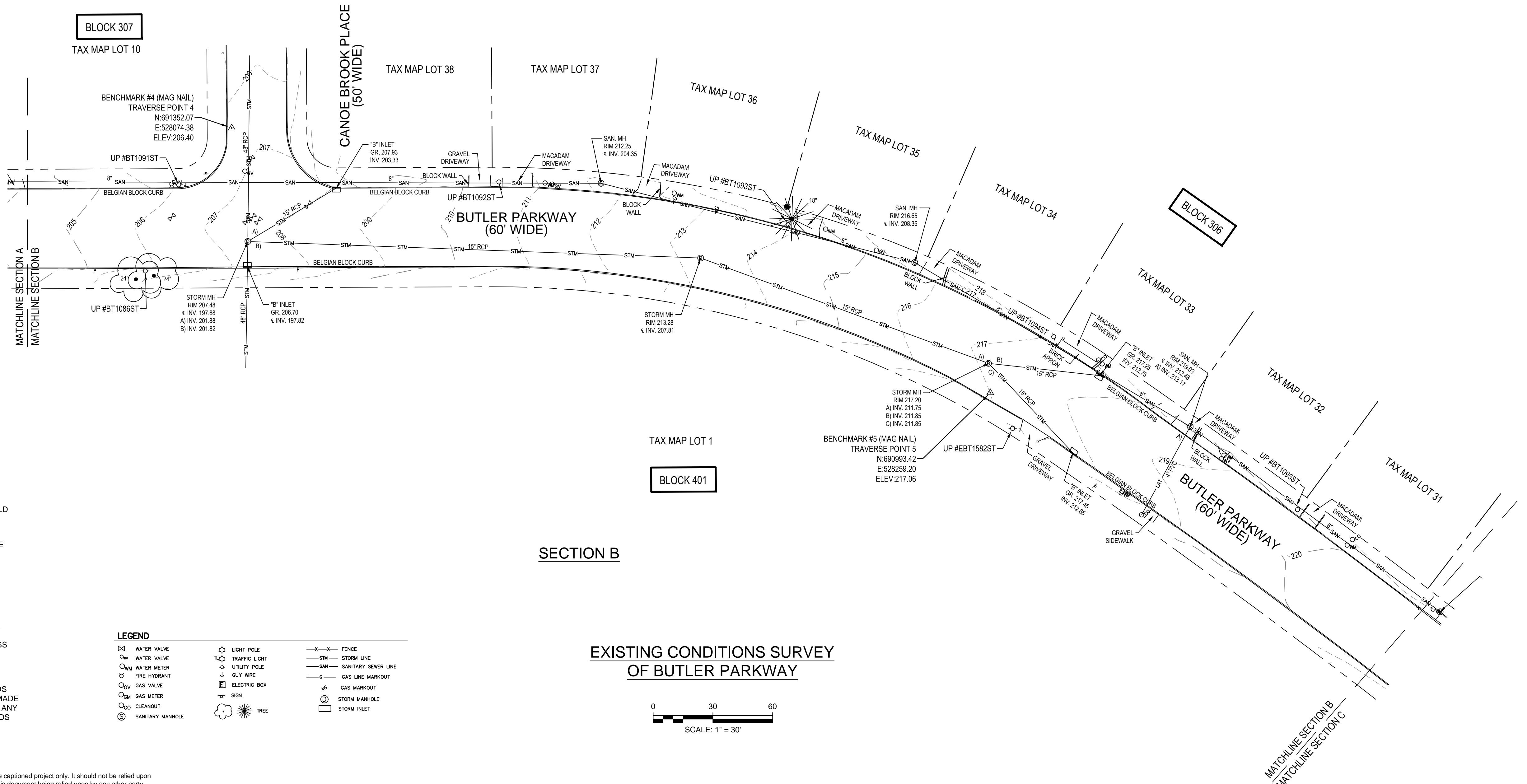
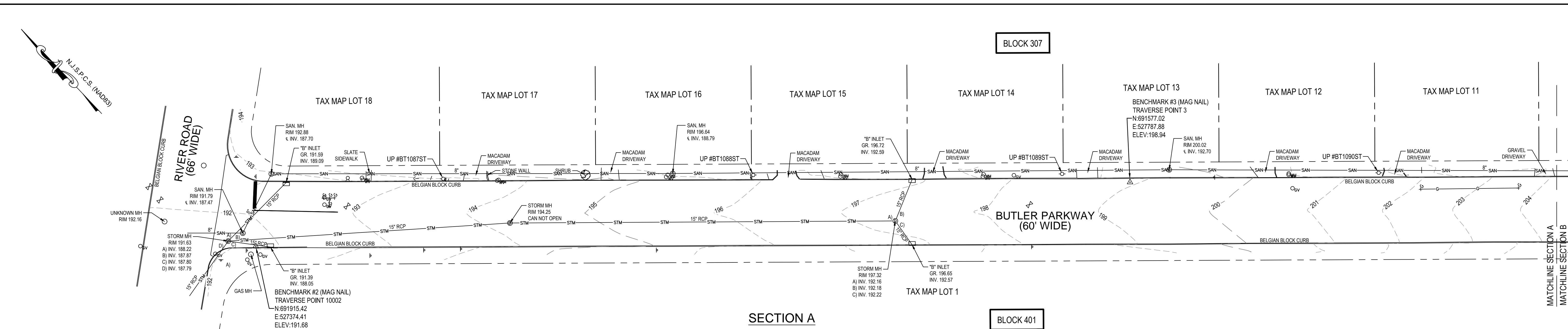
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REVISIONS	DESCRIPTION



SURVEY NOTES:

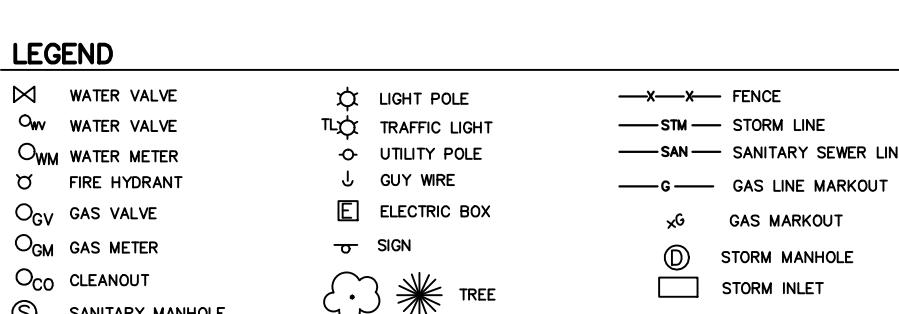
1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD

BY MOTT MACDONALD ON AUGUST 07, 2019.

2. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); BOTH ESTABLISHED BY DIFFERENTIAL GPS ON AUGUST 07, 2019 FROM THE LEICA SMARTNET/NGS CORS NETWORK.
3. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS, UTILITY MARKING FOUND IN THE FIELD AND/OR INFORMATION SUPPLIED BY THE UTILITY COMPANIES. SINCE NO PHYSICAL LOCATION OF THE UNDERGROUND FACILITIES HAVE BEEN MADE BY THE UNDERSIGNED, NO GUARANTEE IS BEING MADE FOR THEIR COMPLETENESS OR ACCURACY.
4. THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO MAKE ANY DETERMINATION AS TO THE EXISTENCE OR NON-EXISTENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS. THEREFORE, NO STATEMENT IS BEING MADE OR IMPLIED HEREON, NOR SHOULD IT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS IS PORTRAYED HEREON. THE CLIENT SHOULD PURSUE THESE MATTERS SEPARATE AND APART FROM THIS SURVEY.

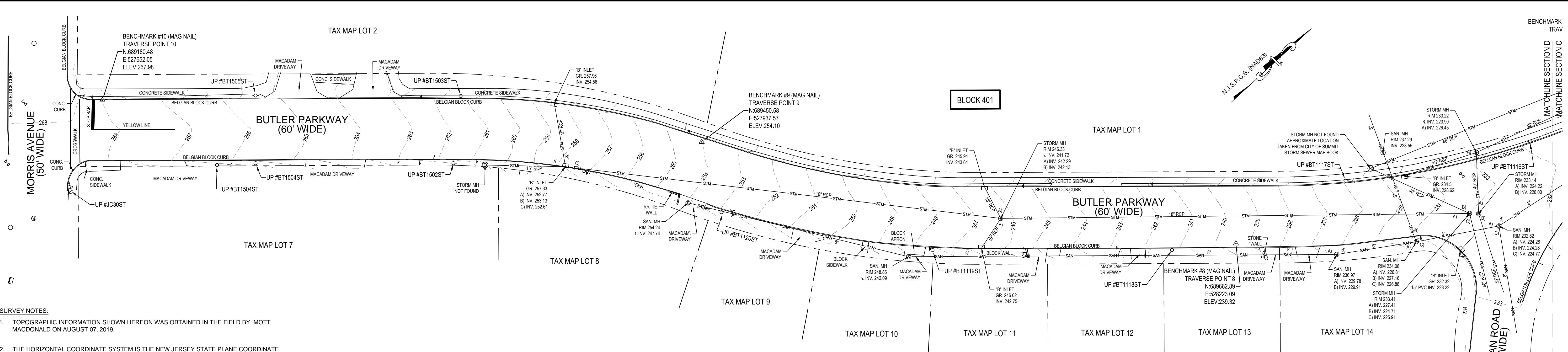
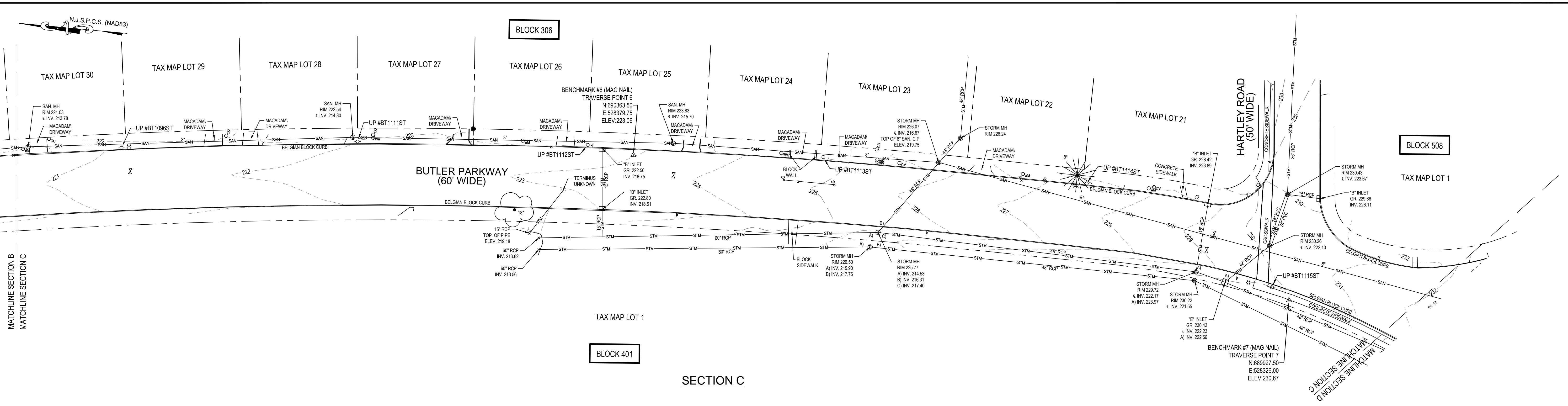
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EXISTING CONDITIONS SURVEY OF BUTLER PARKWAY

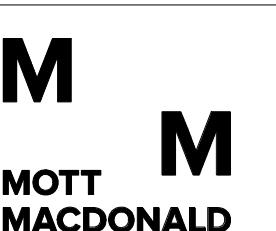
<p>THOMAS F. MILLER NJ PROFESSIONAL LAND SURVEYOR LIC. No. 36264</p> <p>_____ Date _____</p>				Designed			Eng check			Title EXISTING CONDITIONS SURVEY OF BUTLER PARKWAY CITY OF SUMMIT, UNION COUNTY NEW JERSEY (FROM MORRIS AVENUE TO RIVER ROAD)
				Drawn	C.A.		Coordination			
				Dwg check	T.F.M.		Approved	T.F.M.		
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As Shown		PRE	Rev0	STD						
Project Number 507100713		B/O 1	Total 2	Drawing Number 2019-						



SURVEY NOTES:

- TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD BY MOTT MACDONALD ON AUGUST 07, 2019.
- THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); BOTH ESTABLISHED BY DIFFERENTIAL GPS ON AUGUST 07, 2019 FROM THE LEICA SMARTNET/NGS CORS NETWORK.
- ANY UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS, UTILITY MARKING FOUND IN THE FIELD AND/OR INFORMATION SUPPLIED BY THE UTILITY COMPANIES. SINCE NO PHYSICAL LOCATION OF THE UNDERGROUND FACILITIES HAVE BEEN MADE BY THE UNDERSIGNED, NO GUARANTEE IS BEING MADE FOR THEIR COMPLETENESS OR ACCURACY.
- THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO MAKE ANY DETERMINATION AS TO THE EXISTENCE OR NON-EXISTENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS. THEREFORE, NO STATEMENT IS BEING MADE OR IMPLIED HEREON, NOR SHOULD IT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF WETLANDS AND/OR HAZARDOUS MATERIALS IS PORTRAYED HEREON. THE CLIENT SHOULD PURSUE THESE MATTERS SEPARATE AND APART FROM THIS SURVEY.

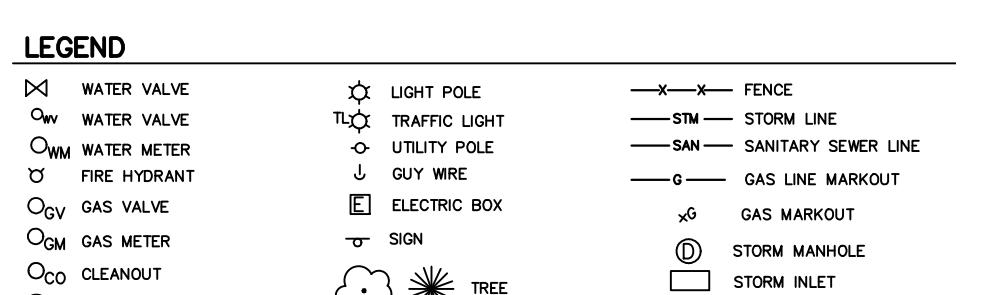
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F +1 (973) 376 1072
www.mottmacamerica.com

Client
CITY OF SUMMIT



EXISTING CONDITIONS SURVEY OF BUTLER PARKWAY

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SCALE: 1" = 30'

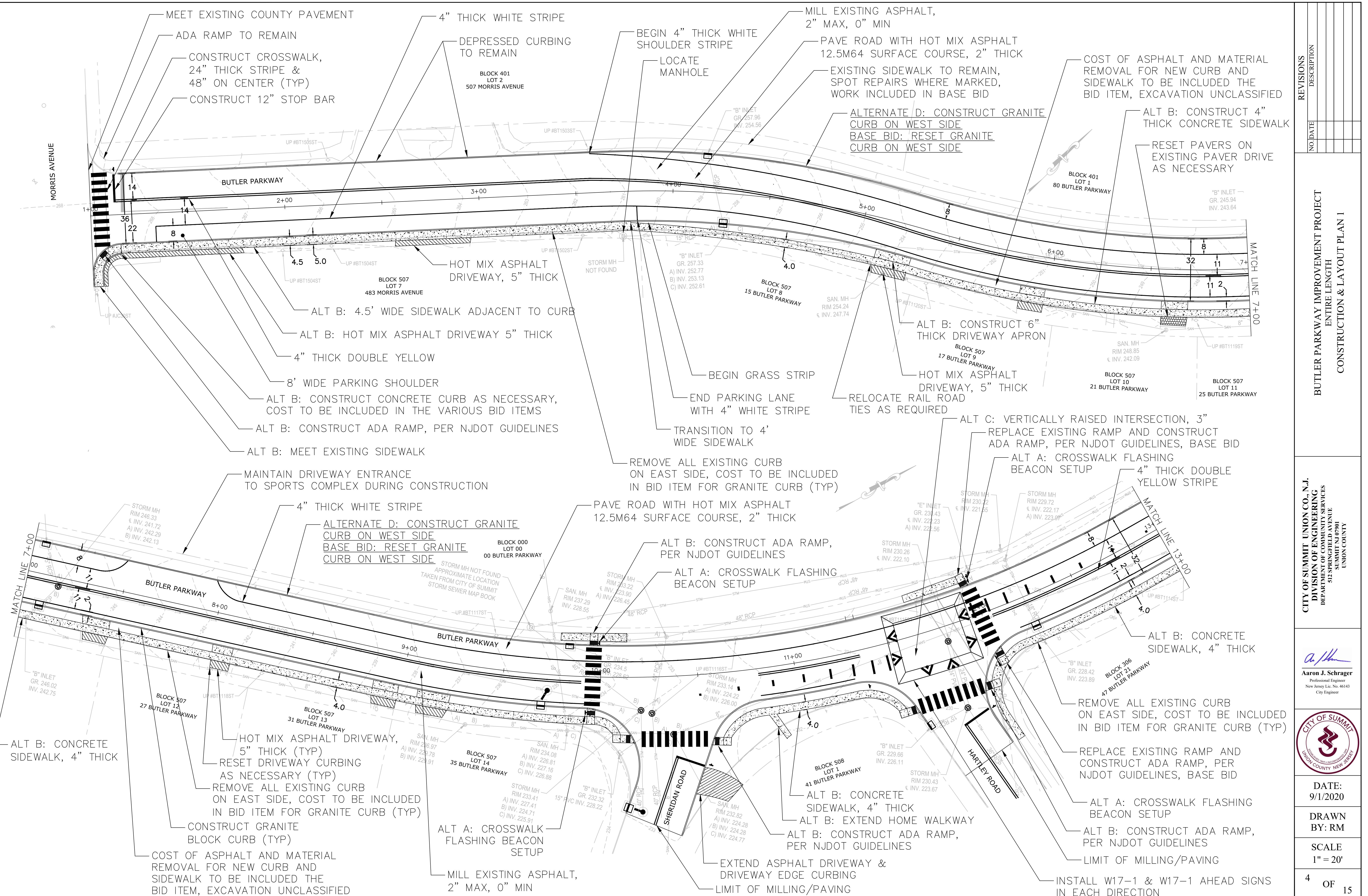
THOMAS F. MILLER
NJ PROFESSIONAL LAND SURVEYOR LIC. No. 36264

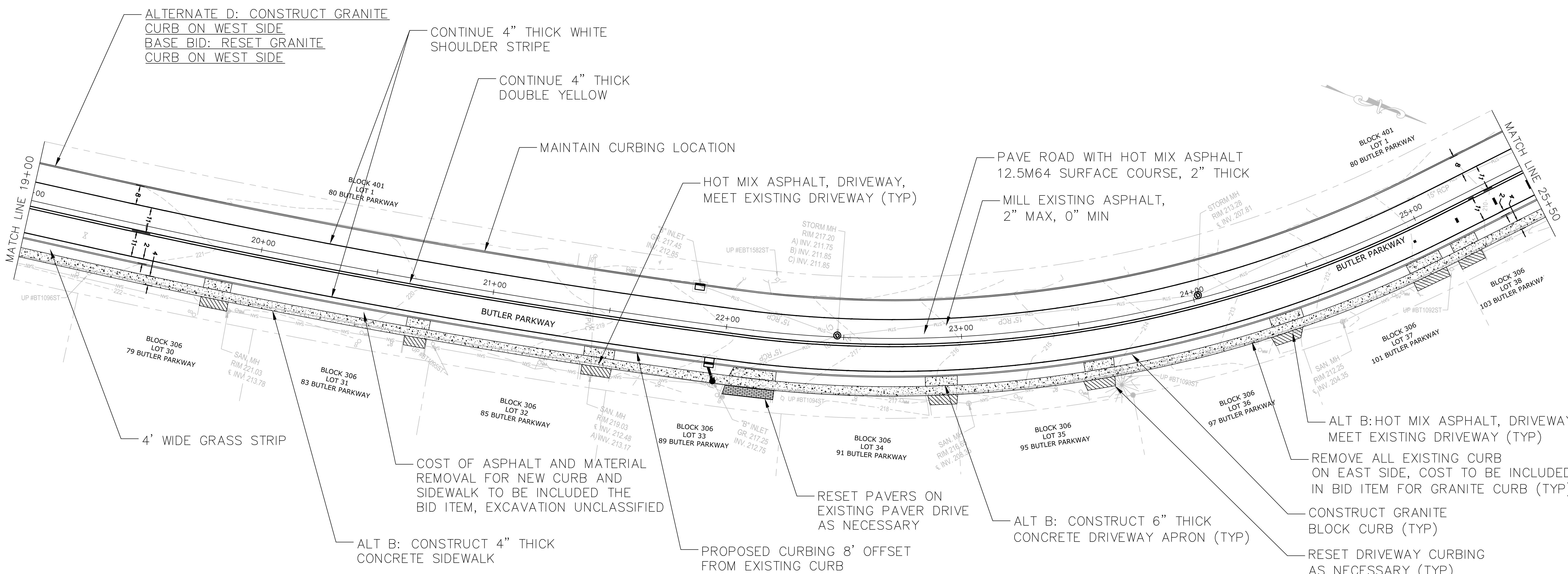
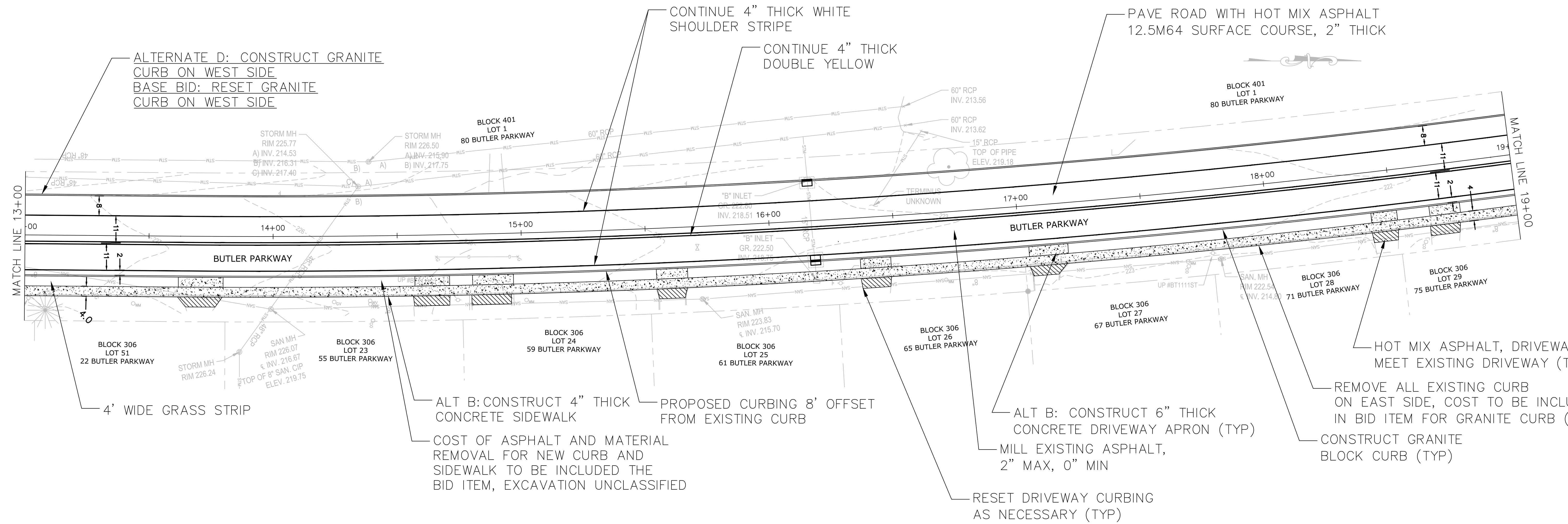
Date _____

Project Number

507100713

Designed	Eng check	Title
C.A.	Coordination	EXISTING CONDITIONS SURVEY OF BUTLER PARKWAY CITY OF SUMMIT, UNION COUNTY NEW JERSEY (FROM MORRIS AVENUE TO RIVER ROAD)
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		STD
Project Number	B/O	Total
507100713	2	2
Drawing Number	2019-	





BUTLER PARKWAY IMPROVEMENT PROJECT
ENTIRE LENGTH
CONSTRUCTION AND LAYOUT PLAN 2

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


Aaron J. Schrage
Professional Engineer
New Jersey Lic. No. A1142

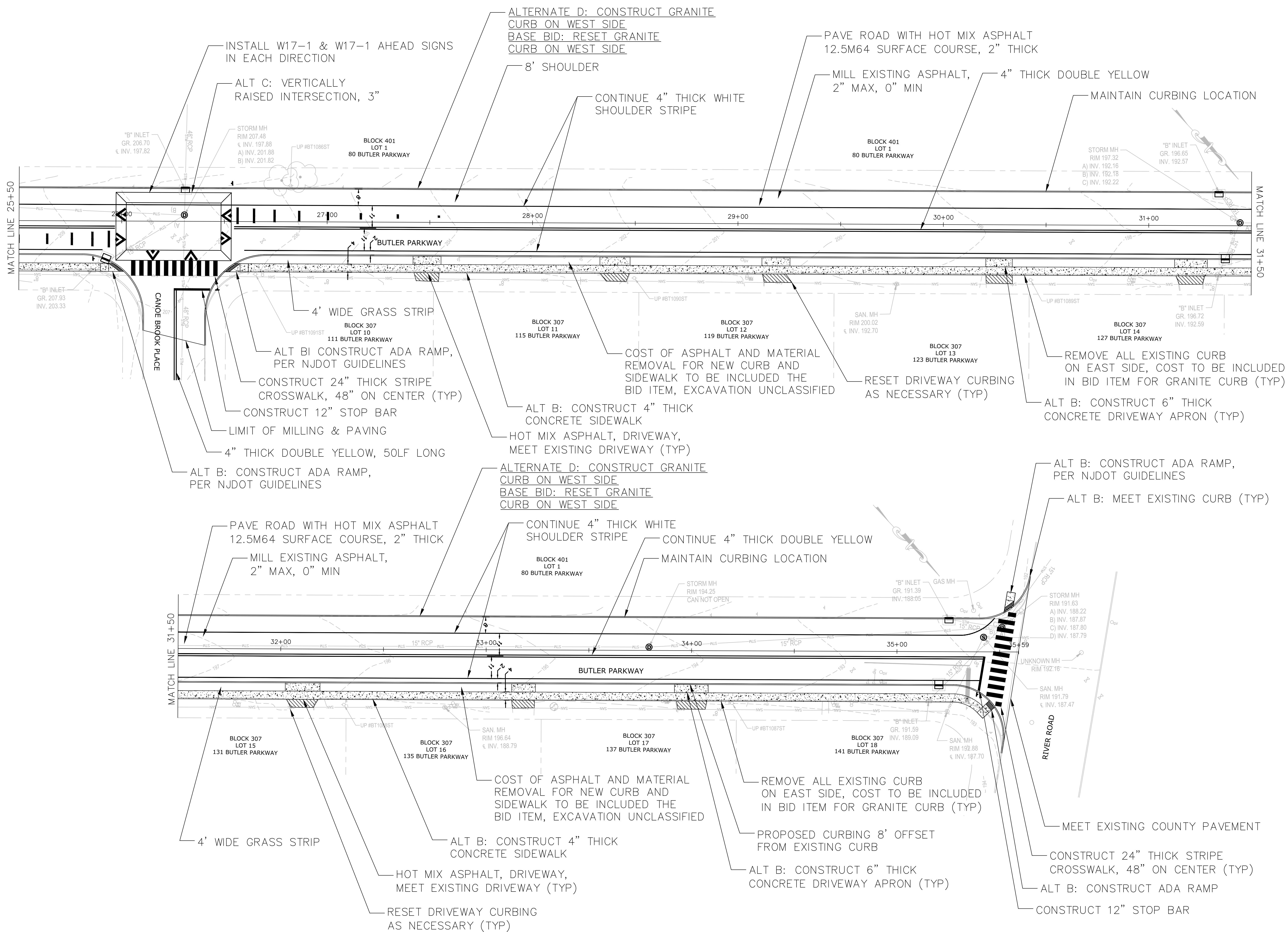


DATE:
9/1/2020

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BY: RM

SCALE
1" = 20'

5 OF 15



**DIVISION OF ENGINEERING
DEPARTMENT OF COMMUNITY SERVICES
512 SPRINGFIELD AVENUE
SUMMIT NJ 07901
UNION COUNTY**

aron J. Schrager
Professional Engineer
New Jersey Lic. No. 46143

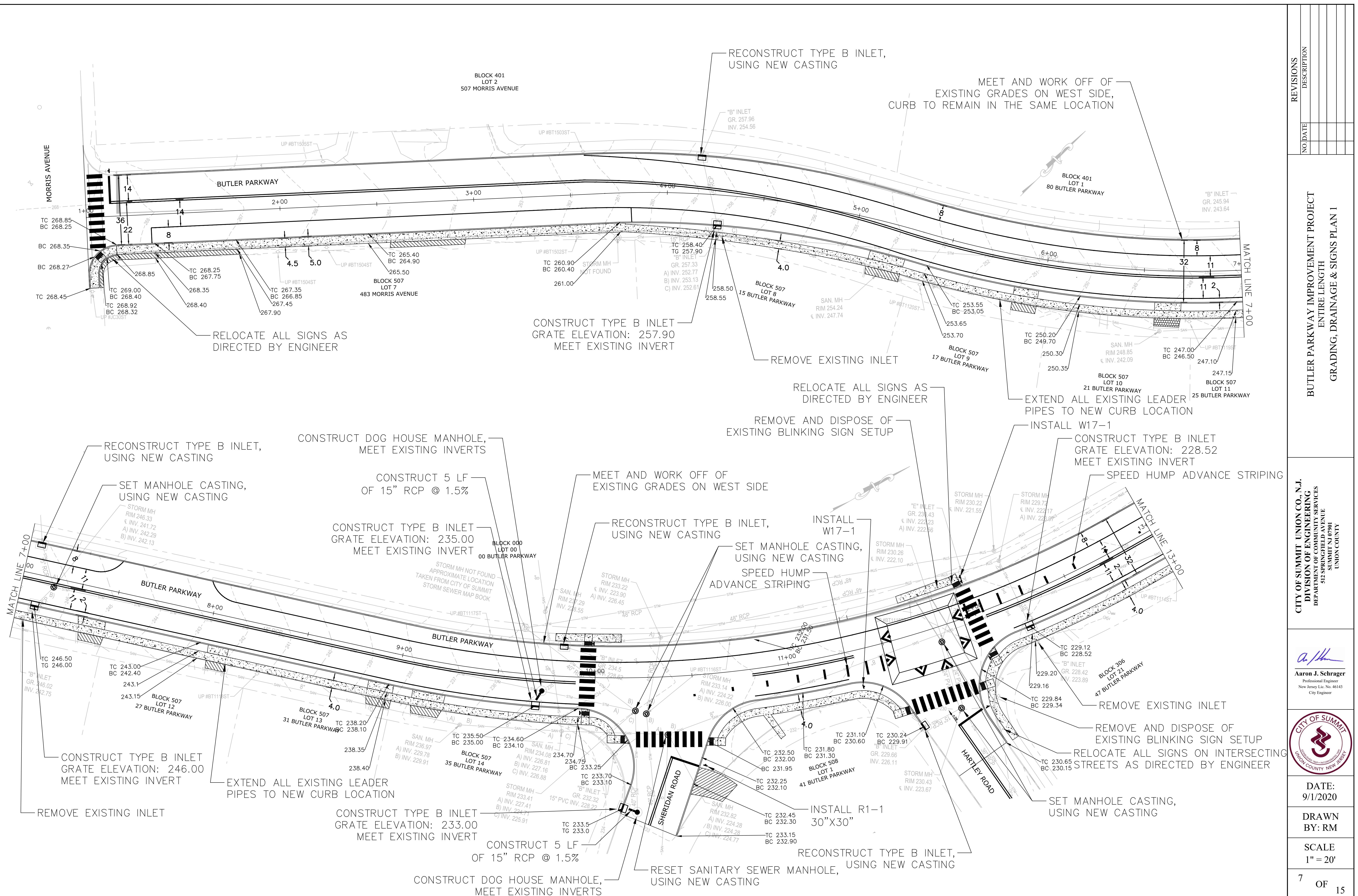
City Engineer

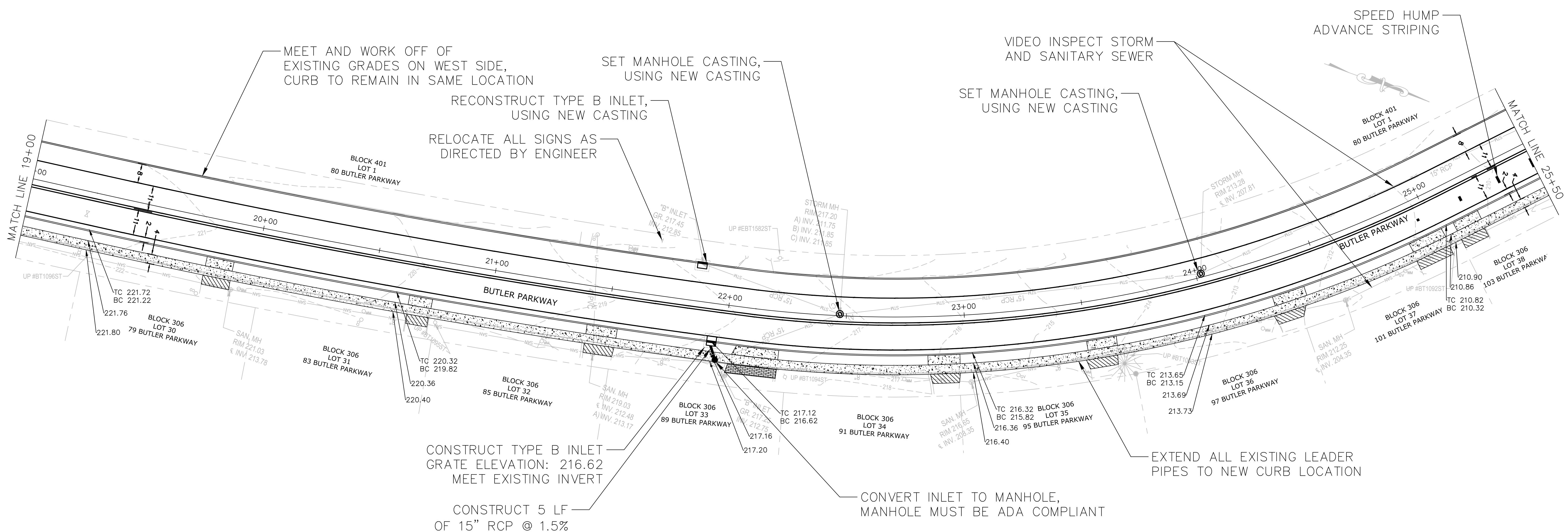
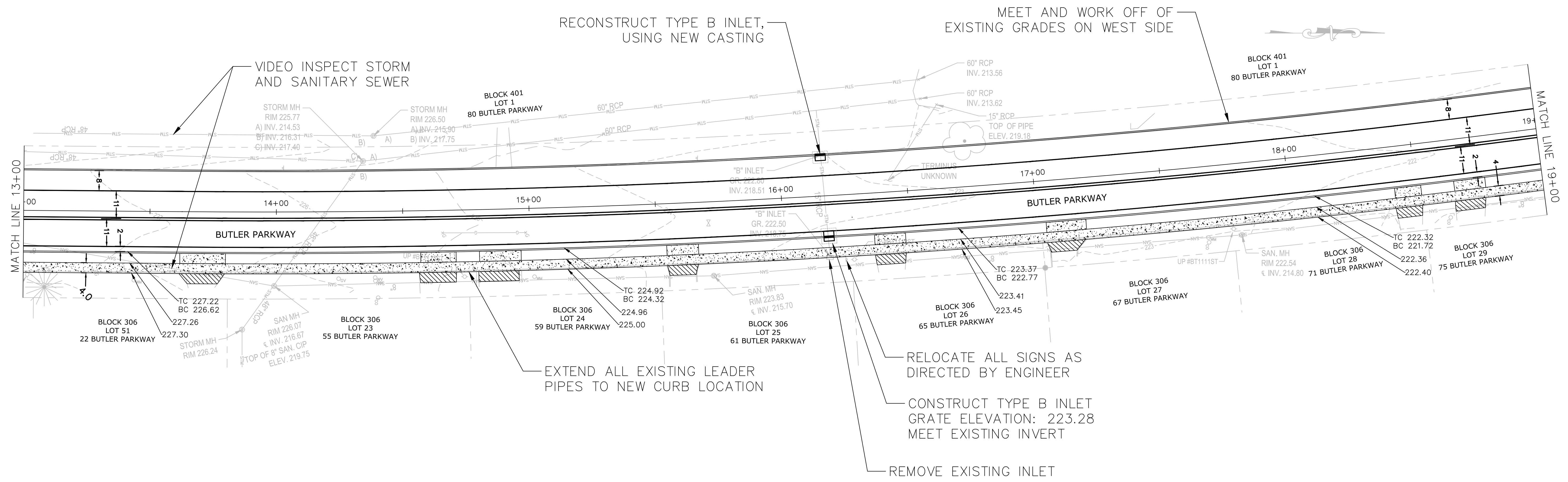
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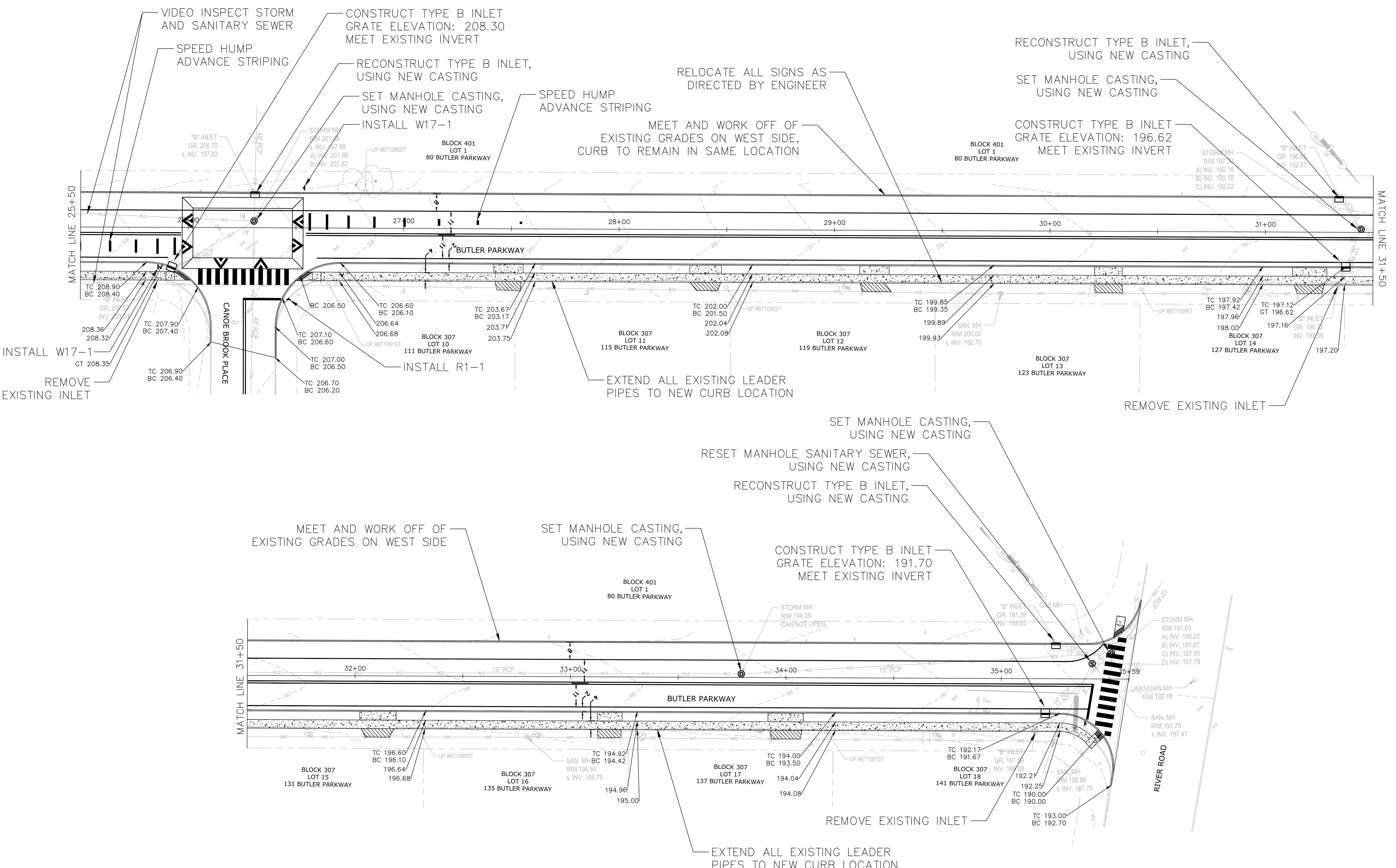
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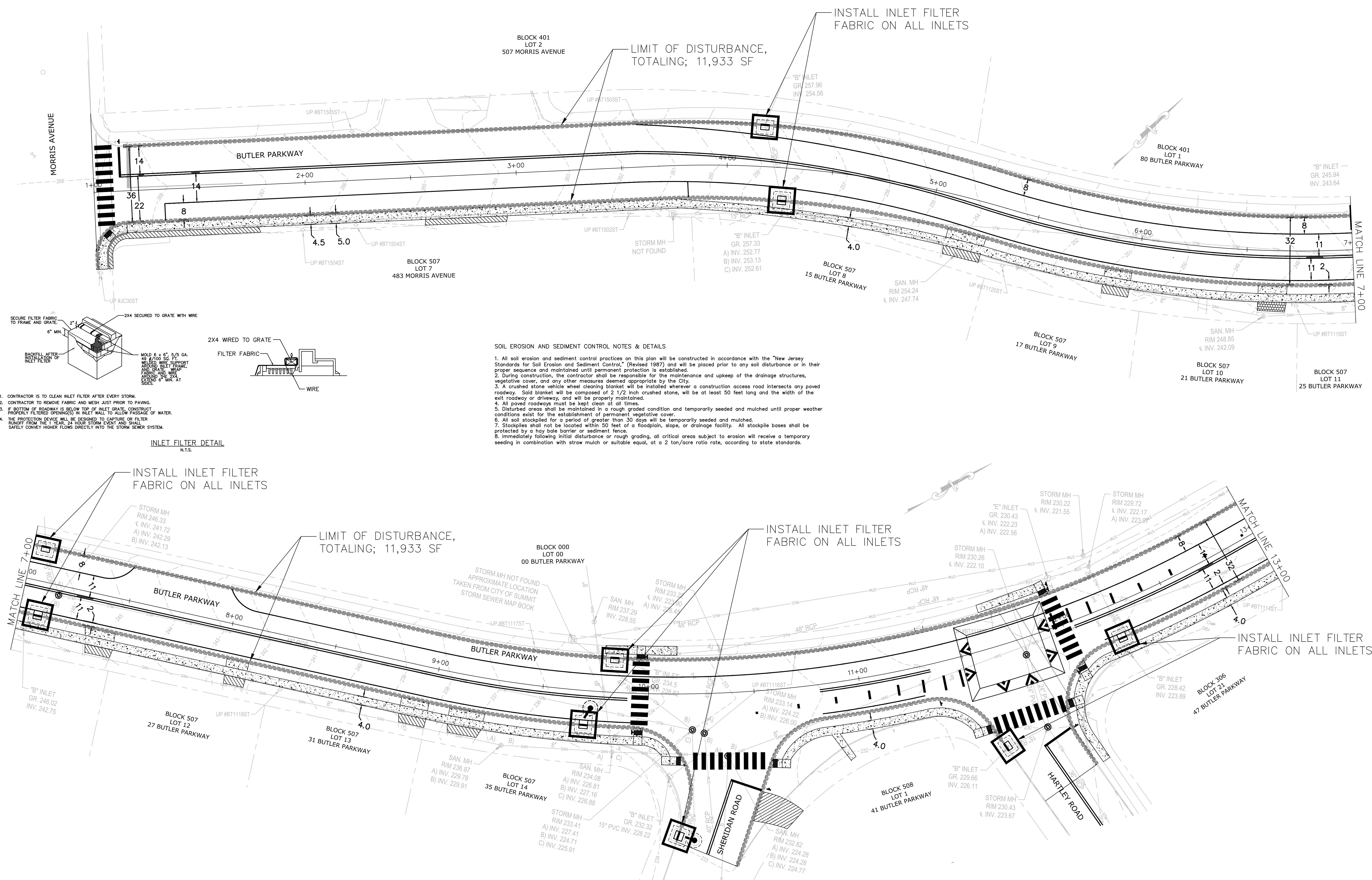
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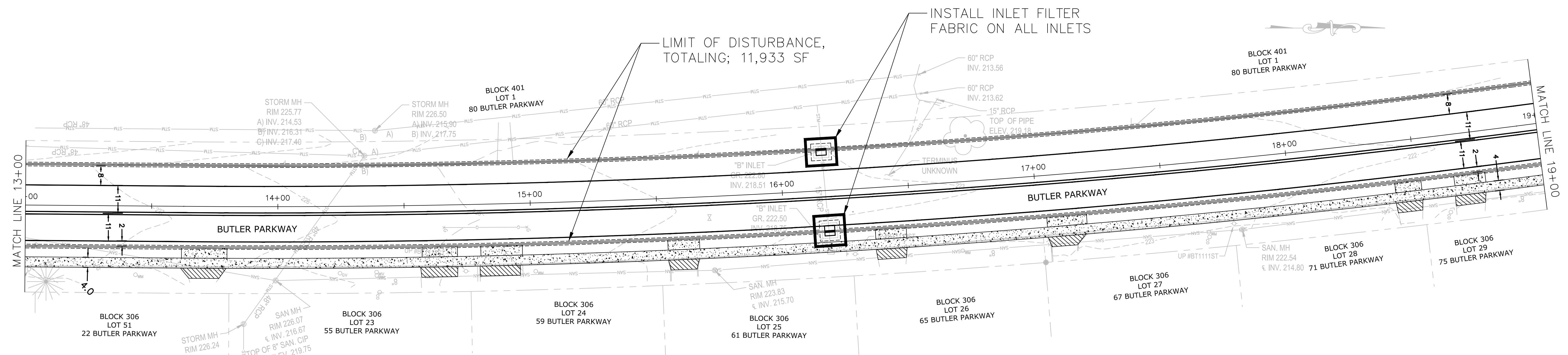




CITY OF SUMMIT UNION CO., N.J. DIVISION OF ENGINEERING DEPARTMENT OF COMMUNITY SERVICES 512 SPRINGFIELD AVENUE SUMMIT NJ 07901 UNION COUNTY		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																								
NO.	DATE	DESCRIPTION																												
		Aaron J. Schrager Professional Engineer New Jersey Lic. No. 46143 City Engineer																												
		DATE: 9/1/2020																												
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OF 15																														







9. Temporary stabilization – any disturbed area that will be left exposed for more than thirty (30) days and not subject to construction activities shall immediately be stabilized upon disturbance by applying the following:

- Ground Limestone at a rate of 90 pounds per 1,000 square feet.
- Fertilizer at a rate of 14 pounds per 1,000 square feet using a 10-20-10 analysis or an equivalent worked into the soil a minimum of 4 inches.
- Seed shall be annual ryegrass applied at not less than one pound per 1,000 square feet.
- Mulch shall be applied with a liquid mulch binder applied at a rate of 90 pounds per 1,000 square feet according to NJ Standard. Mulch shall not be ground into short pieces and in no case shall more than 5 days elapse between seeding and mulching.
- Mulch shall be anchored with a liquid mulch binder applied at a rate of one gallon per 1,000 square feet or by approved methods (i.e. peg and twine, mulch netting).

10. Between October 1 and March 1 and when the season prohibits temporary seeding or when disturbed areas are scheduled for immediate landscaping, applying the aforementioned items "d" and "e," will be adequate.

11. Seeding dates: The following are the recommended seeding dates for the establishment of temporary or permanent vegetation:

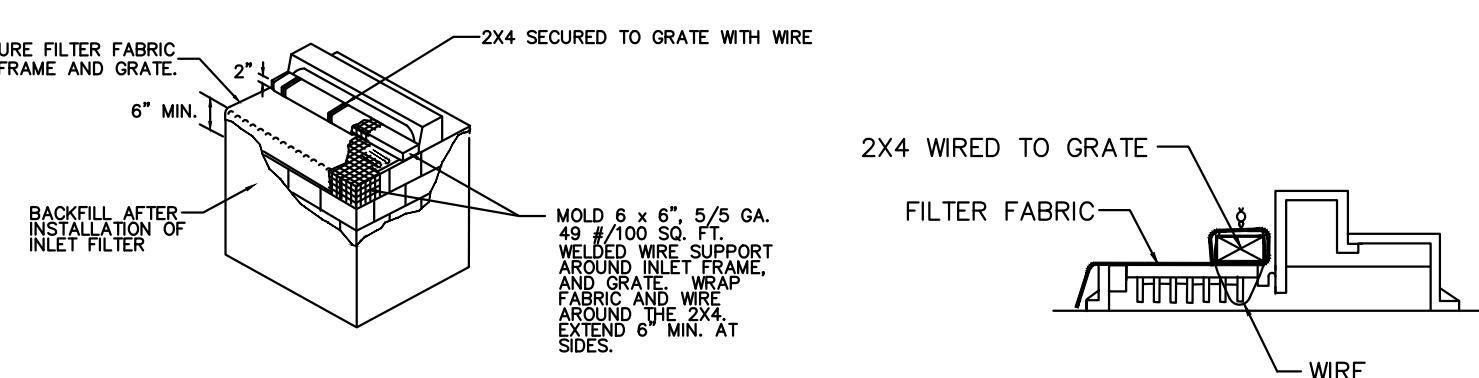
- Grading: March 1 – May 15.
- Fall: August 15 – October 1.

12. Permanent vegetative cover is to be established on exposed areas within 10 days after final grading. Mulch is to be used for protection until final vegetation is established.

13. Permanent seeding and stabilization to be in accordance with the standards for permanent vegetative cover – all exposed surfaces will be treated with 4" topsoil prior to final stabilization and the following items applied at the designated rates:

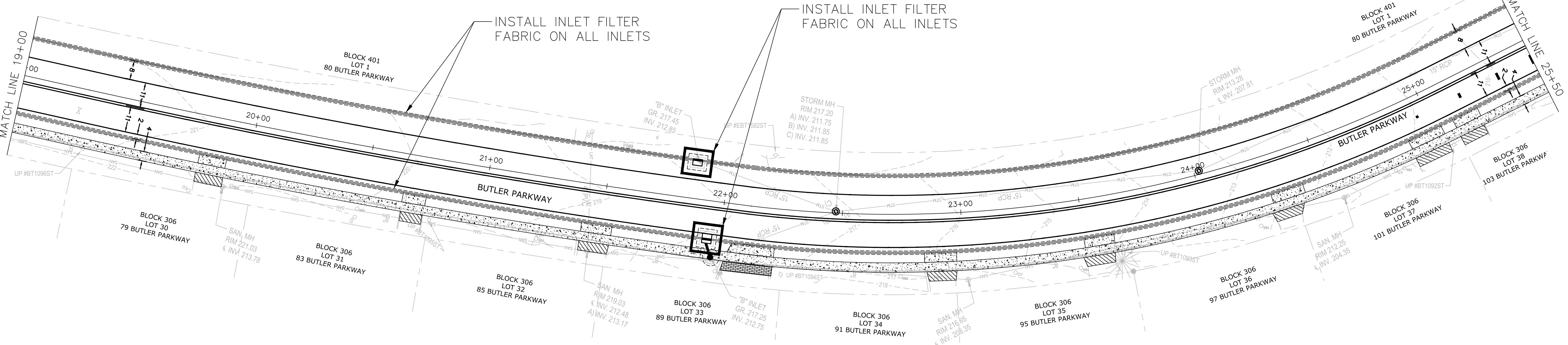
- Lime shall be applied at 90 pounds per 1,000 square feet consisting of ground limestone incorporated into the top 4 inches of topsoil.
- Fertilizer shall be 14 pounds per 1,000 square feet 10-20-10 incorporated into the top 4 inches of topsoil.
- Seed shall be 25 pounds per acre of Kentucky Bluegrass, 15 pounds per acre of Red Fescue, spreading Fescue at 15 pounds per acre, and 10 pounds per acre of perennial ryegrass.
- In shaded areas increase Red Fescue to 20 pounds per acre.
- Mulch all newly seeded area with unrotted salt hay or small grain straw at a rate of 90 pounds per 1,000 square feet according to NJ Standard. Mulch shall not be ground into short pieces and in no case shall more than 5 days elapse between seeding and mulching.
- Mulch shall be anchored with a liquid mulch binder applied at rate of one gallon per 1,000 square feet or by approved methods (i.e. peg and twine, mulch netting).

14. Maximum side slopes of all exposed surfaces shall not exceed 3:1 unless otherwise approved by the City.



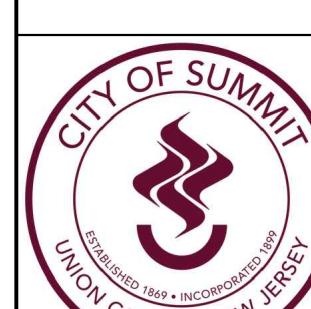
1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC AND MESH AND PRIOR TO PAVING.
3. IF BOTTOM OF ROADWAY IS BELOW TOP OF INLET GRADE, CONSTRUCT PROPERLY FILTERED OPENING(S) IN INLET WALL TO ALLOW PASSAGE OF WATER.
4. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE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

INLET FILTER DETAIL
N.T.S.



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

Aaron J. Schrager
Professional Engineer
New Jersey Lic. No. 46143
City Engineer

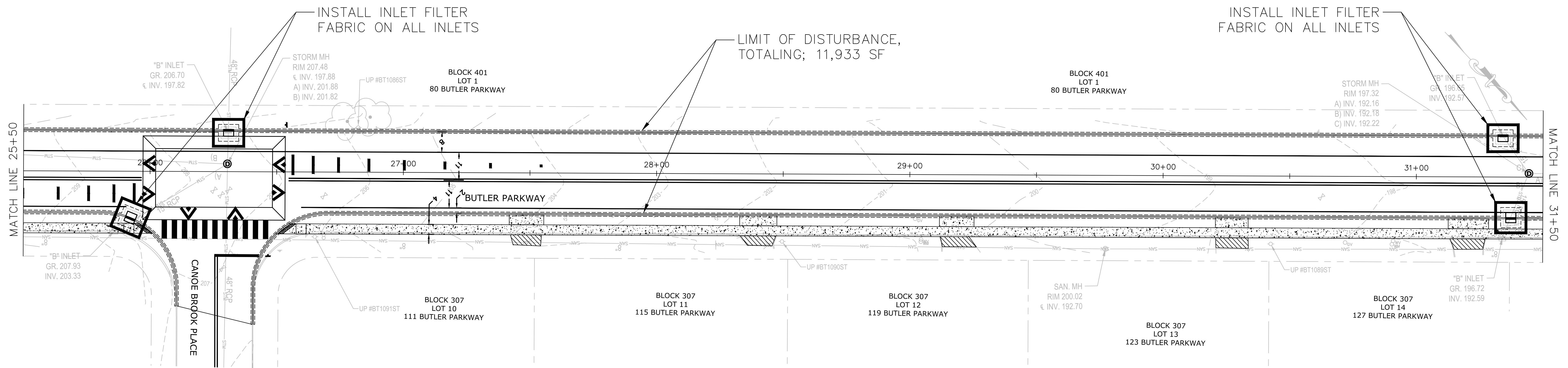


DATE:
9/1/2020

DRAWN
BY: RM

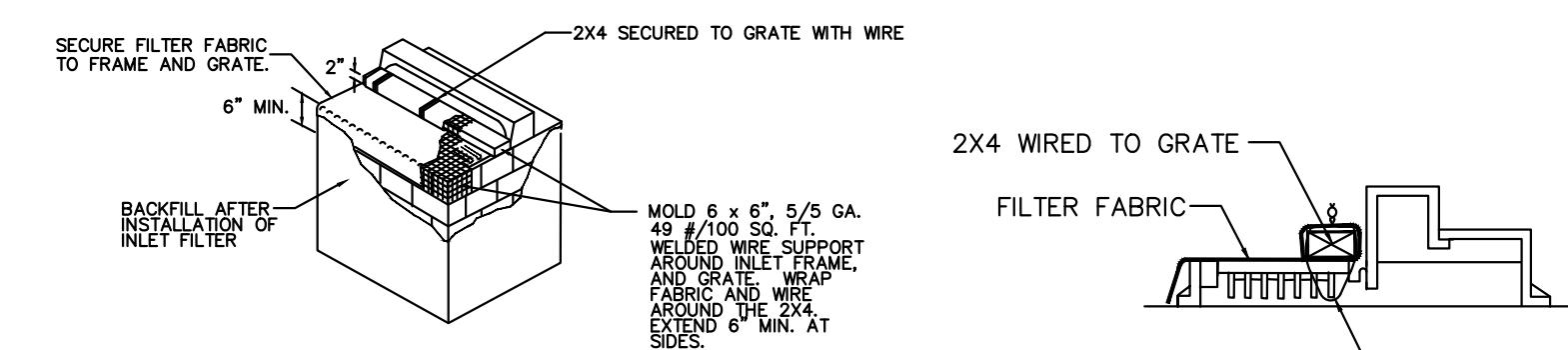
SCALE
1" = 20'

11 OF 15

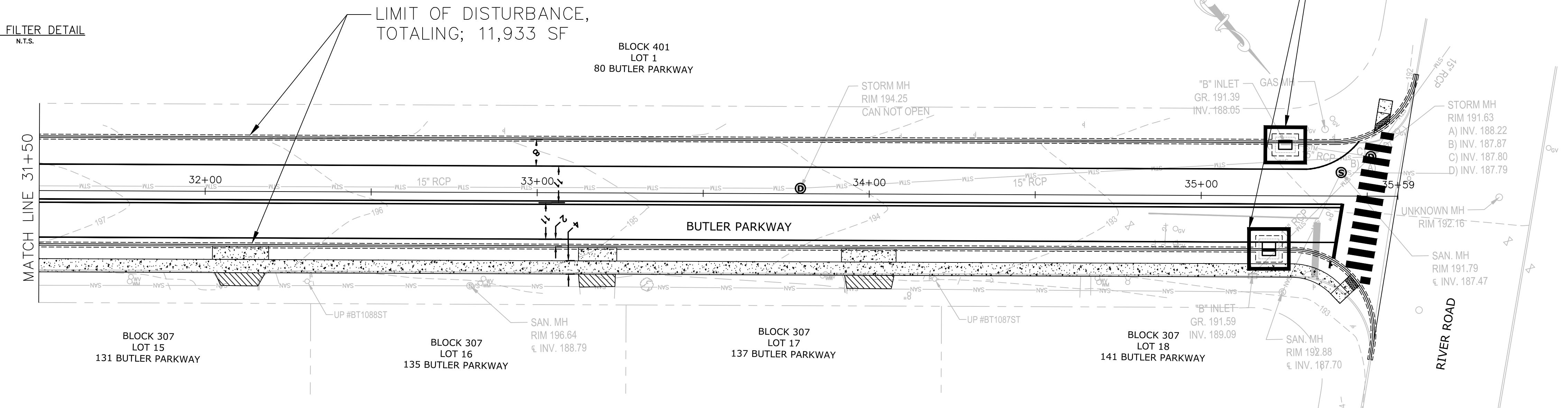


1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR TO REMOVE FABRIC AND MESH JUST PRIOR TO PAVING.
 3. IF FILTER IS TO BE USED, THE CONTRACTOR IS TO ENSURE THAT THE PROPERLY FILTERED OPENING(S) IN INLET WALL TO ALLOW PASSAGE OF WATER.
 4. THE PROTECTION DEVICE WILL BE DESIGNED TO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

15. The site shall, at all times, be graded and maintained such that all storm water runoff is diverted to soil erosion and sediment control facilities.
 16. All dewatering operations must discharge directly into a sediment filter area. The sediment filter should be composed of a suitable sediment filter.
 17. All sedimentation structures will be inspected and maintained on a regular basis.
 18. All storm drain inlets shall be protected with filters to prevent entry of sediment carried by runoff water until vegetation and/or paving is established.
 19. All storm drainage inlets will be stabilized as required before the discharge points become operational.
 20. The contractor shall take additional measures to minimize on or off site erosion problems during construction.
 21. Sequence of construction: a. Install vehicle wheel cleaning blanket and inlet protection. b. Install silt fence.
 c. Clear site. d. Strip and stockpile soil. e. Construct site improvements. f. Provide temporary stabilization. g. Provide permanent stabilization. h. Provide temporary silt fence, inlet protection, and other erosion controls.
 22. A copy of the soil erosion and sediment control plan must be on-site at all times and made available to the City representative during inspection.
 23. Written notification shall be made to the Somerset-Union Soil Conservation District, 308 Milltown Road, Bridgewater, NJ, 08807, 48 hours prior to the start of any land disturbance activity.

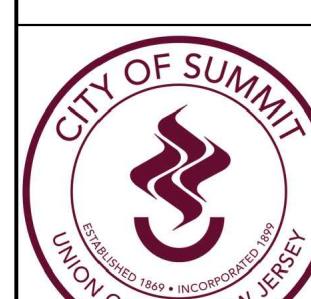


INLET FILTER DETAIL
N.T.S.



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

Aaron J. Schrager
Professional Engineer
New Jersey Lic. No. 46143
City Engineer



DATE:
9/1/2020

DRAWN
BY: RM

SCALE
1" = 20'

12 OF 15

BUTLER PARKWAY IMPROVEMENT PROJECT
ENTIRE LENGTH
SOIL EROSION & SEDIMENT CONTROL PLAN 3

REVISIONS	DESCRIPTION
NO DATE	

BUTLER PARKWAY IMPROVEMENT PROJECT
ENTIRE LENGTH
DETAIL PLAN

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

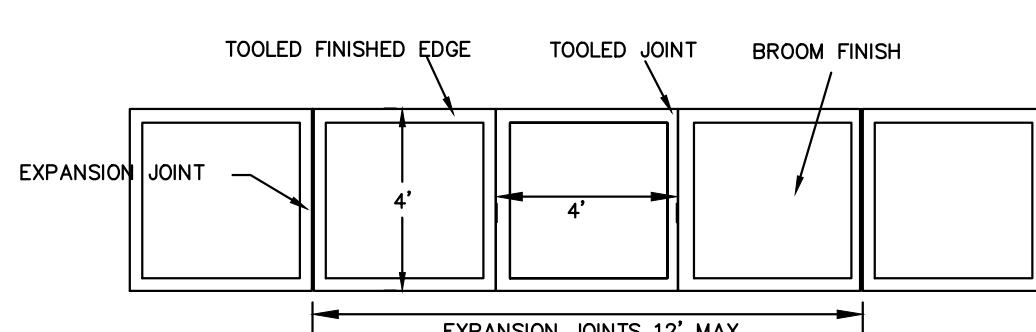
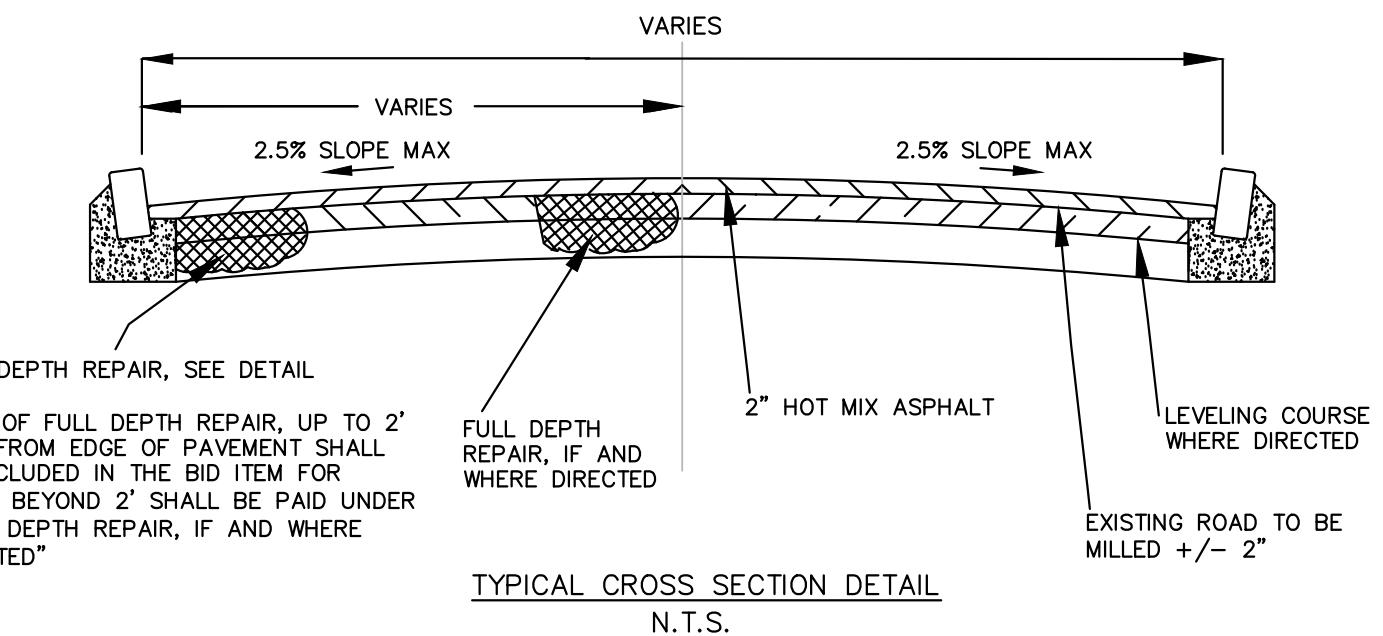


DATE:
9/1/2020

DRAWN
BY: RM

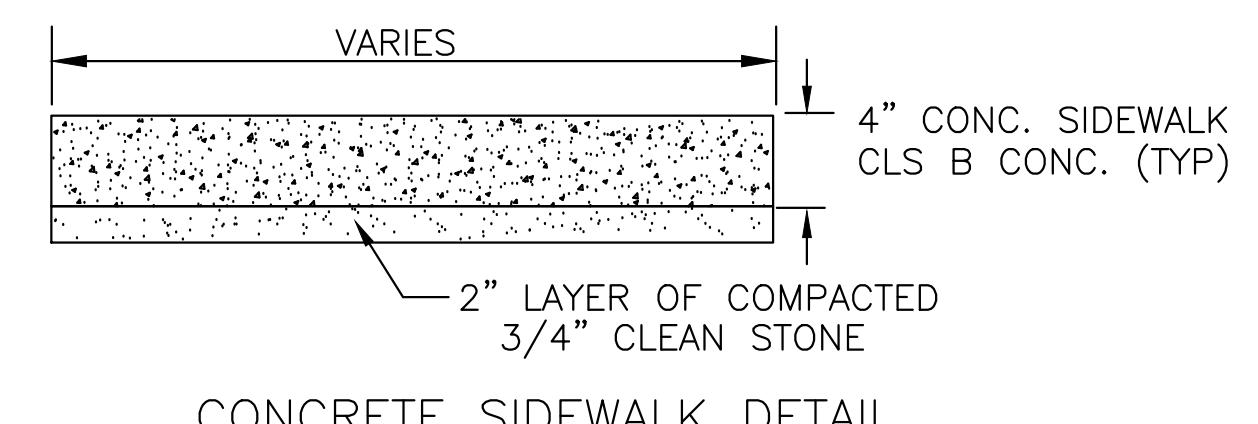
SCALE
AS NOTED

13 OF 15



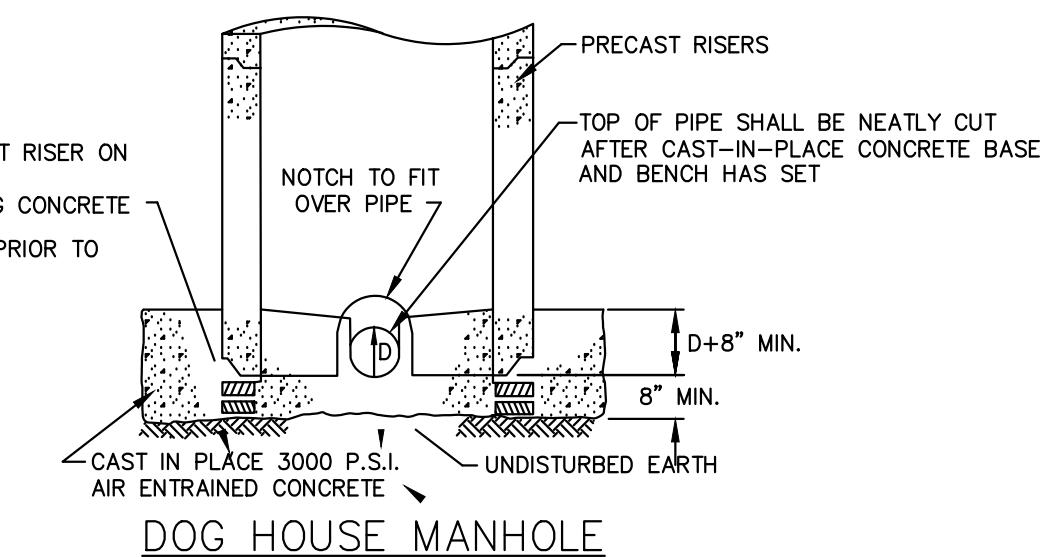
NOTE: 1) ALL SIDEWALK MUST BE SPRAYED WITH WHITE PIGMENTED CURING COMPOUND AFTER BROOM FINISHING. 2) CONCRETE TO BE Poured OVER 2" LAYER OF COMPACTED CLEAN STONE. 3) CONCRETE TO BE CLASS B #500LB MIX.

CONCRETE SIDEWALK DETAIL
N.T.S.



CONCRETE SIDEWALK DETAIL
N.T.S.

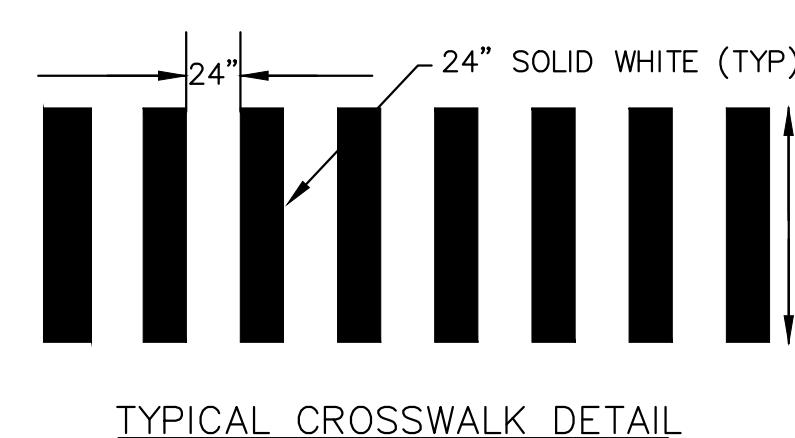
NOTE: 1) CLEAN STONE TO BE INCLUDED IN THE BID PRICE OF SIDEWALK
2) ALL CONCRETE SIDEWALK IS TO HAVE WHITE PIGMENT ADDED TO THE MIXTURE



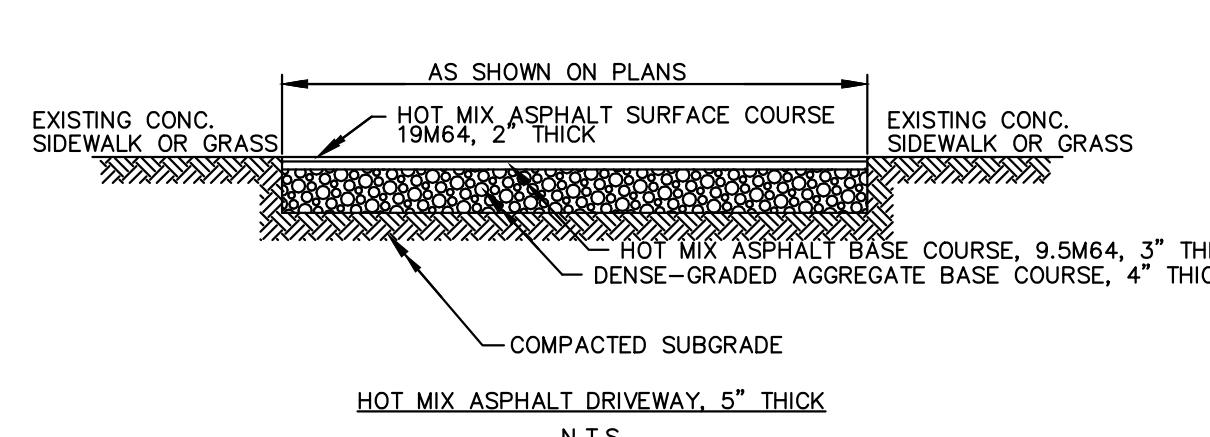
DOG HOUSE MANHOLE
N.T.S.

(FOR INSTALLING NEW MANHOLE ON ACTIVE SEWER)

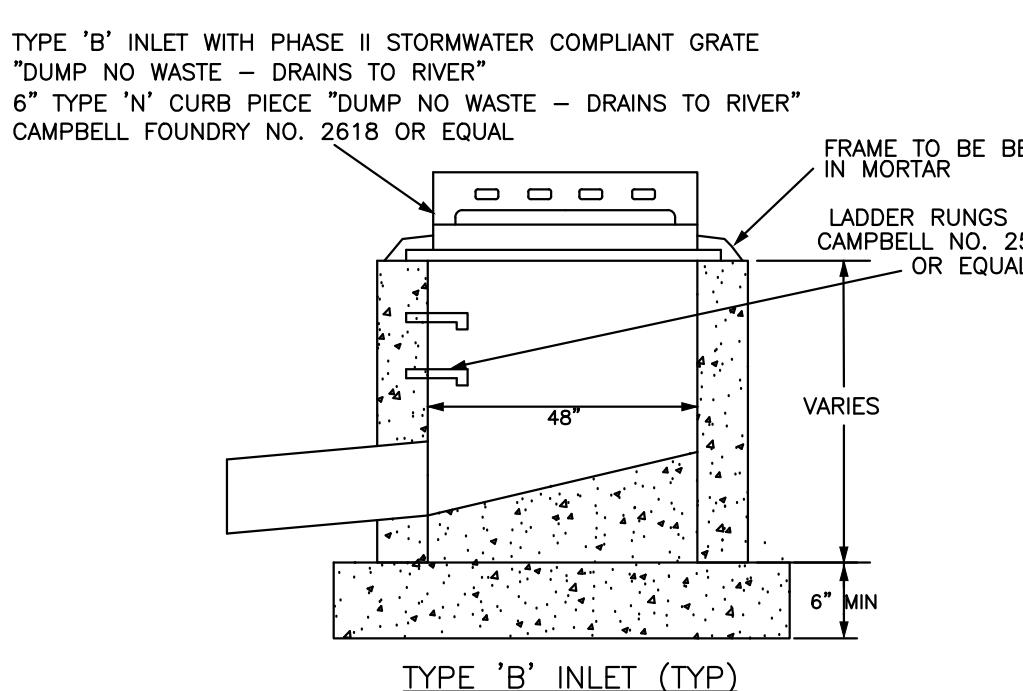
NOTES:
1. FOR DETAIL OF UPPER PART OF MANHOLE, SEE "STANDARD MANHOLE" DETAIL
2. ACRYLAMIDE GEL GROUT INJECTION SHALL BE USED TO STOP LEAKS, IF ANY, AROUND MANHOLE SEAMS AND PIPES.



TYPICAL CROSSWALK DETAIL
N.T.S.



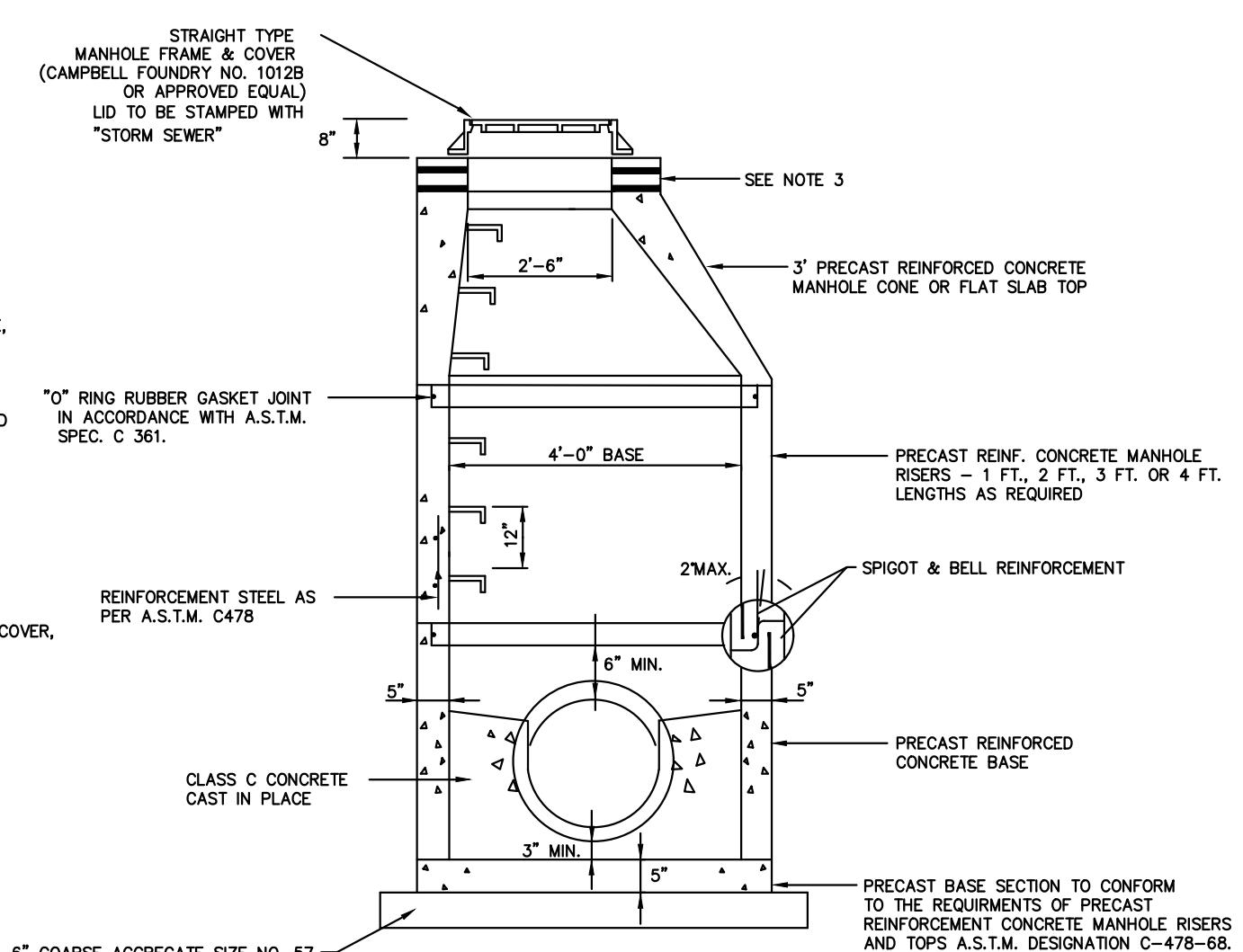
DRIVEWAY HUMP DETAIL
N.T.S.



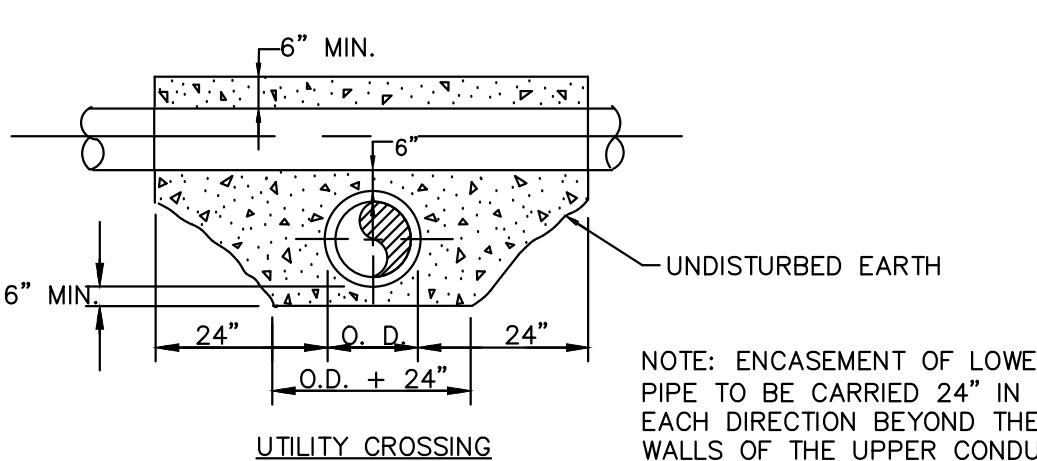
TYPE 'B' INLET (TYP)
N.T.S.

NOTE:
1) ALL PIPES ARE TO BE CUT FLUSH WITH BASIN WALL.
2) DRAINAGE SYSTEM TO BE APPROVED BY THE BID PRICE FOR THE BASIN.
3) SHOP DRAWINGS MUST BE SUBMITTED BY A NEW JERSEY PROFESSIONALLY LICENSED ENGINEER FOR ALL PROPOSED PRECAST INLETS THREE (3) WEEKS PRIOR TO CONSTRUCTION. SHOP DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
4) GRATE MUST BE BICYCLE SAFE.

MANHOLE NOTES
1. MANHOLES MAY BE CONSTRUCTED OF BRICK, CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE.
2. WHEN THE DEPTH OF A MANHOLE EXCEEDS 10 FT. AS MEASURED FROM TOP OF COVER TO INVERT, WALLS OF BRICK, CONCRETE OR CONCRETE BLOCK BELOW A DEPTH OF 8 FT. SHALL BE 12" O.C. OVER THE HORIZONTAL DIMENSIONS. SHALL BE INCREASED 12" WHEN THE DEPTH OF THE FOUNDATION IS INCREASED TO 12". WHEN ROCK IS ENCOUNTERED THE HORIZONTAL DIMENSION AND DEPTH OF THE PRECAST CONCRETE MANHOLE WALLS DOES NOT HAVE TO BE INCREASED IF THE DEPTH EXCEEDS 10 FEET.
3. CASTINGS OF PRECAST MANHOLES SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK OR CONCRETE BLOCK, AS REQUIRED, 12" MAXIMUM.
4. AS AN ALTERNATE TO THE STANDARD MANHOLE FRAME AND COVER, A 4" O.D. DIAMETER PIPE WITH A 4" FLANGE MAY BE FURNISHED WITH ALL OTHER DIMENSIONS AND WEIGHTS REMAINING THE SAME.
5. IN BRICK, CONCRETE OR CONCRETE BLOCK MANHOLES, INVERTS SHALL BE CONSTRUCTED IN TWO STAGES.
6. AS AN ALTERNATE, COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNGS MAY BE FURNISHED IN PRECAST MANHOLES AND INLETS.



STORM MANHOLE
N.T.S.



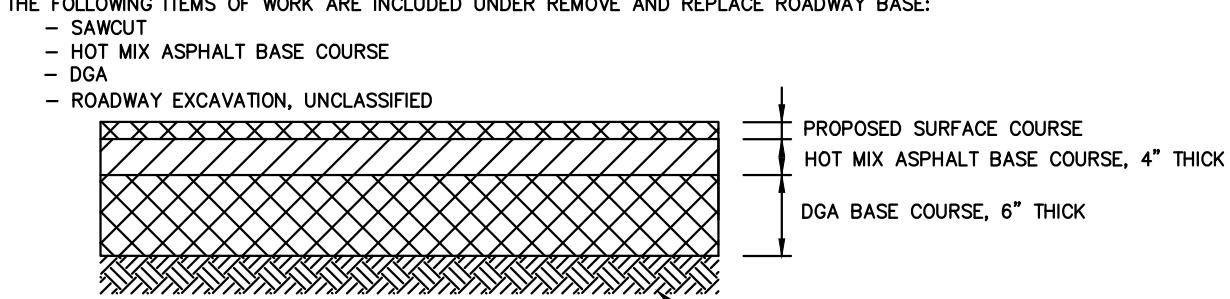
NOTE: ENCASING OF LOWER PIPE TO BE CARRIED 24" IN EACH DIRECTION BEYOND THE WALLS OF THE UPPER CONDUIT.

UTILITY CROSSING
N.T.S.

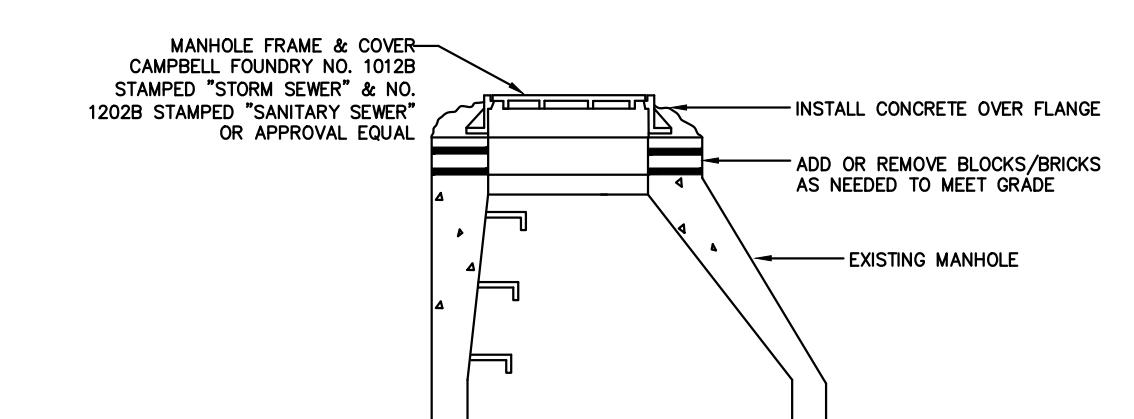
NOTES

1. REMOVE AND REPLACE ROADWAY BASE SHALL CONSIST OF THE REMOVAL OF UNSUITABLE ROADWAY BASE MATERIAL OF WHATEVER NATURE ENCOUNTERED TO A DEPTH OF AT LEAST 10" UNCOVERED AFTER MILLING OR VIBRATING PRIOR TO MILLING, RE-SURFACING AND THE INSTALLATION OF A LEAR 4" HOT MIX ASPHALT BASE COURSE AND 6" O.D.A. THE PERIMETER OF THE REPAIR SHALL BE SAW CUT.

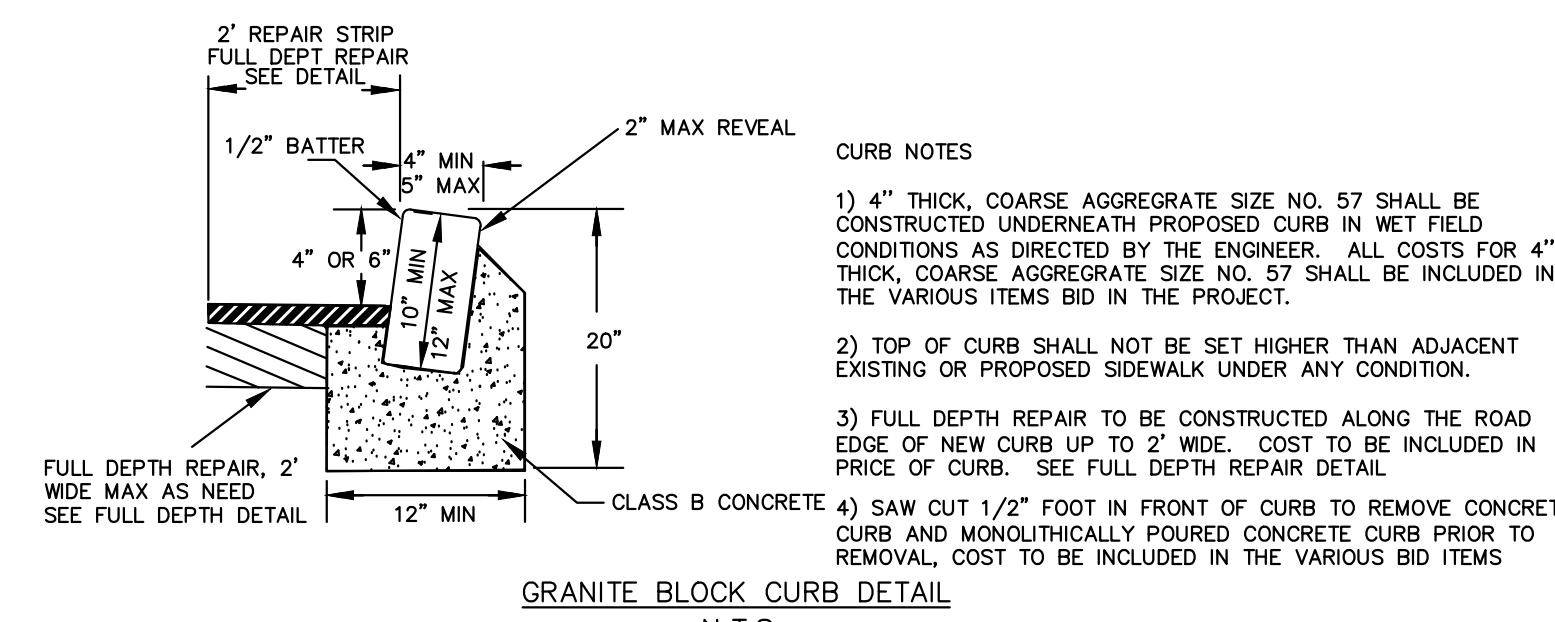
2. THE FOLLOWING ITEMS OF WORK ARE INCLUDED UNDER REMOVE AND REPLACE ROADWAY BASE:
- SANCTU
- HOT MIX ASPHALT BASE COURSE
- DGA
- ROADWAY EXCAVATION, UNCLASSIFIED



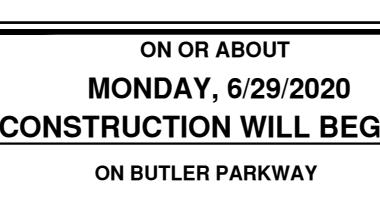
HOT MIX ASPHALT PAVEMENT REPAIR
N.T.S.



SET NEW STORM/SANITARY CASTING
N.T.S.

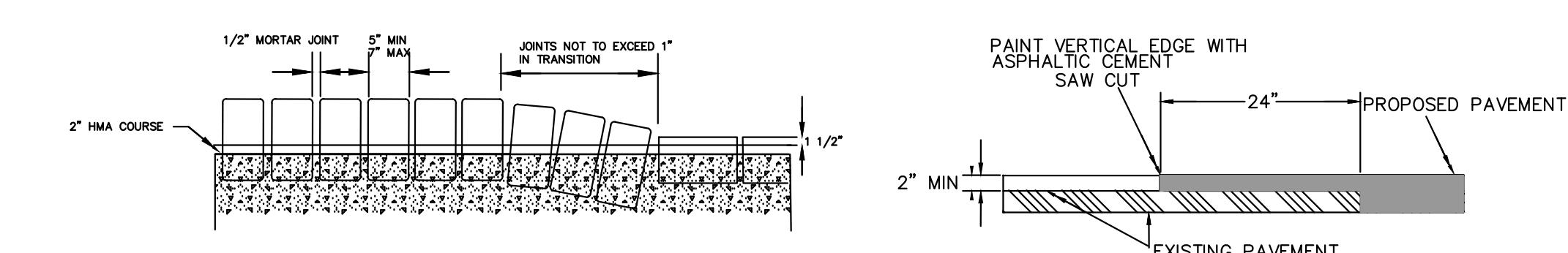


GRANITE BLOCK CURB DETAIL
N.T.S.

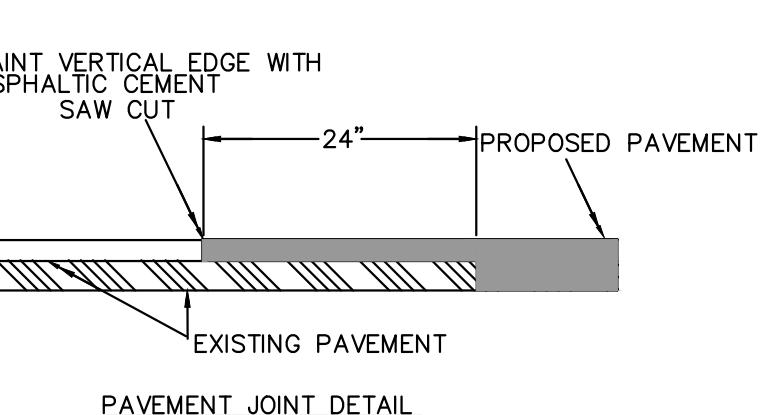


NOTE: 1) THE CONTRACTOR SHALL MOUNT THE SIGN IN ACCORDANCE WITH NJDOT 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION & THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2) EXACT WORDING TO BE APPROVED BY THE CITY ENGINEER

CONSTRUCTION IDENTIFICATION SIGN DETAIL
N.T.S.



DEPRESSED GRANITE BLOCK CURB DETAIL
N.T.S.



PAVEMENT JOINT DETAIL
N.T.S.

EXISTING LEGEND - SEE SURVEY
PROPOSED LEGEND

PROPOSED ASPHALT DRIVEWAY
PROPOSED SIDEWALK/HANDICAP RAMP/DRIVEWAY APRON

PROPOSED RCP PIPE

PROPOSED INLET

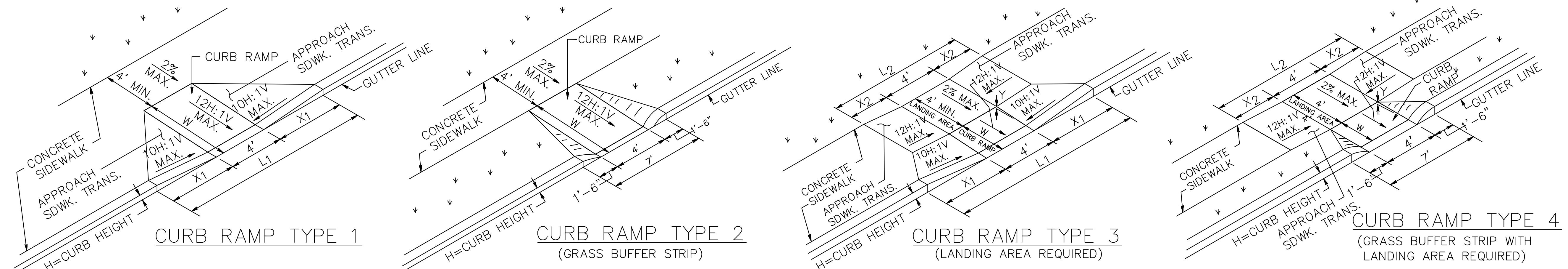
SET NEW CASTING

RECONSTRUCT INLET

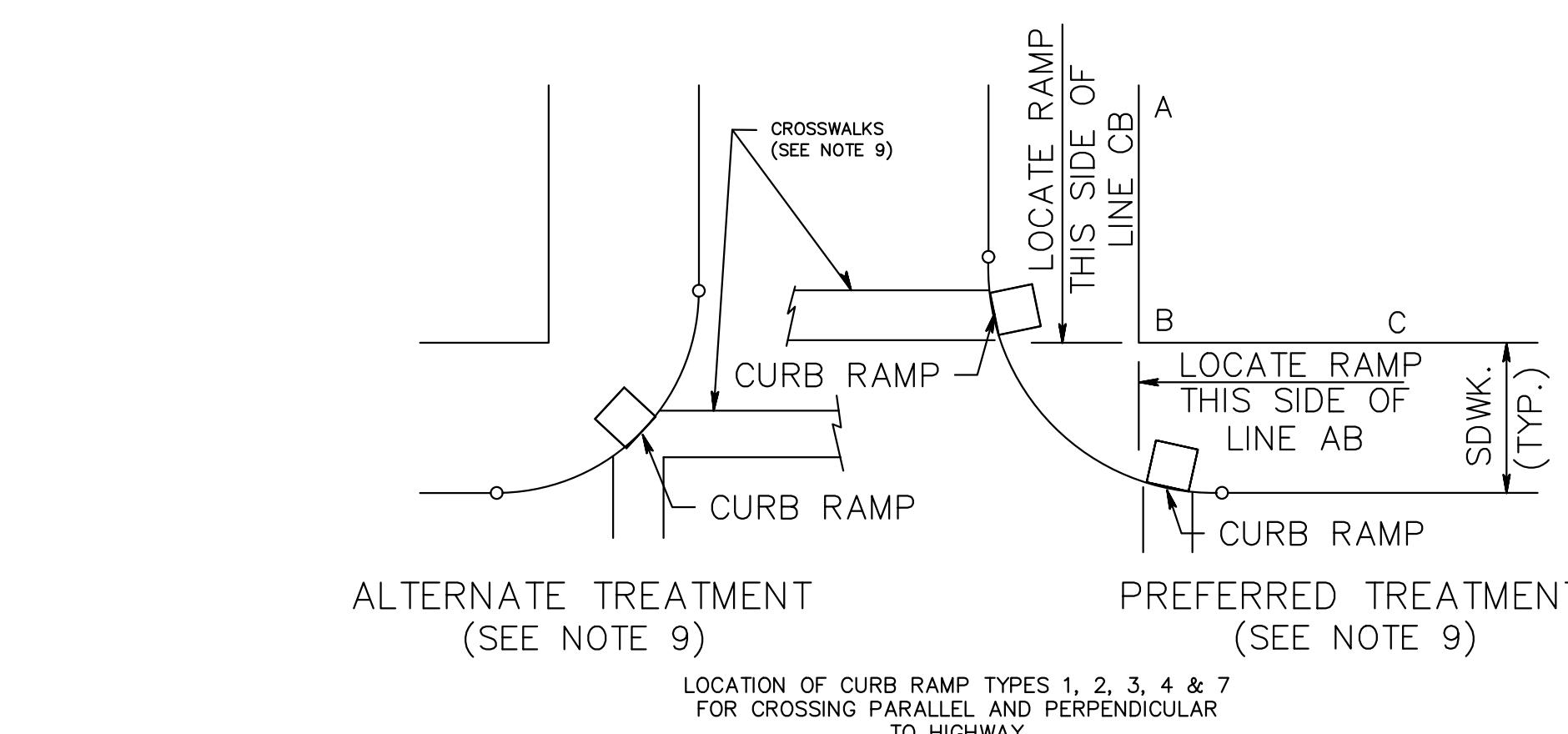
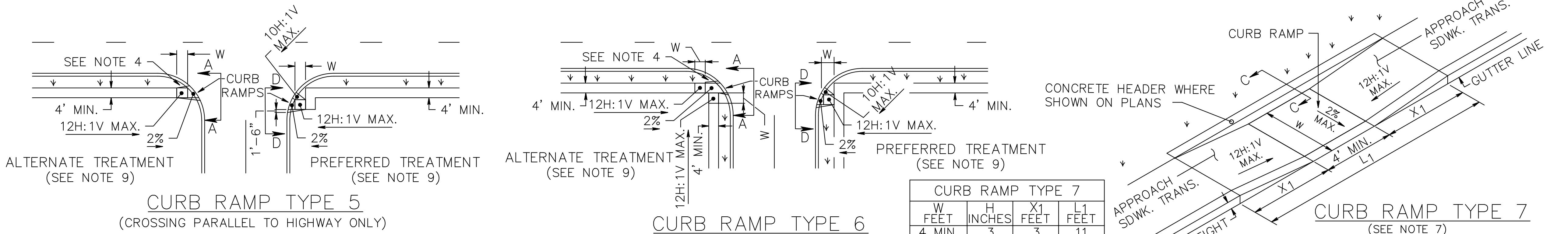
PROPOSED STORM MANHOLE

REVISIONS
DESCRIPTION

NO. DATE



REVISIONS	DESCRIPTION
	NO. DATE



CURB RAMP TYPE 1			
W FEET	H INCHES	X1 FEET	L1 FEET
4 MIN.	3	2.5	11
6 MAX.	4	3.3	13
	5	4.2	15
	6	5.0	17
	7	5.8	19
	8	6.7	21
	9	7.5	23

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

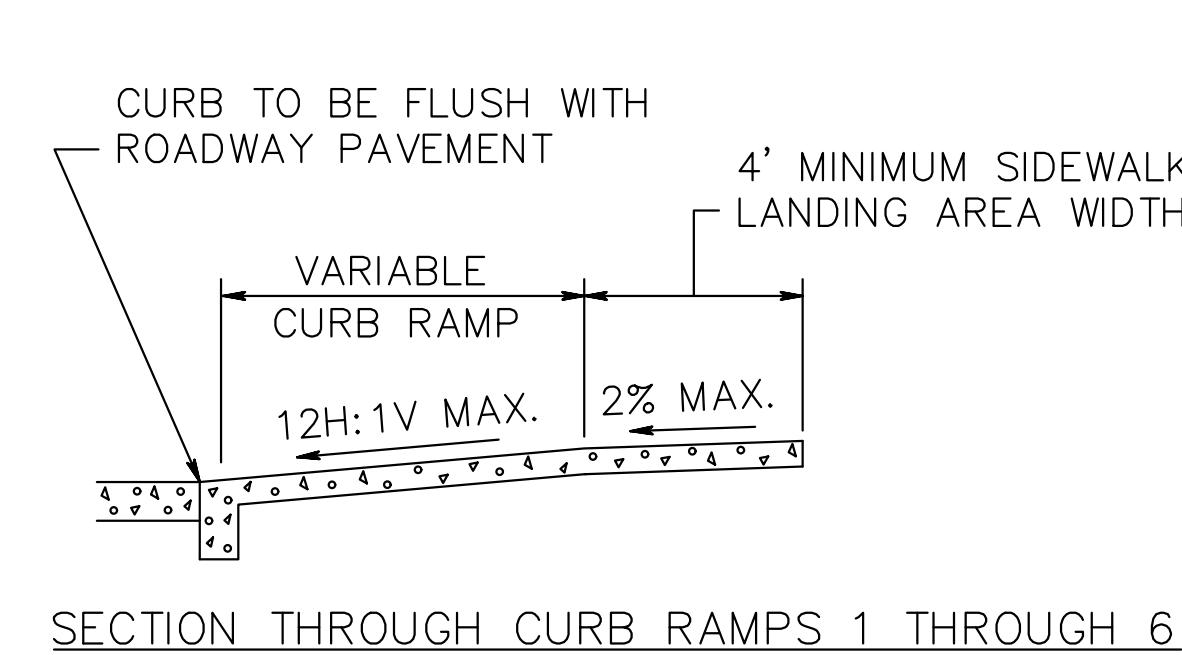
GENERAL NOTES:

1. LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRAMATICALLY IN AREA OF PROPOSED CURB RAMP.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
9. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
10. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.

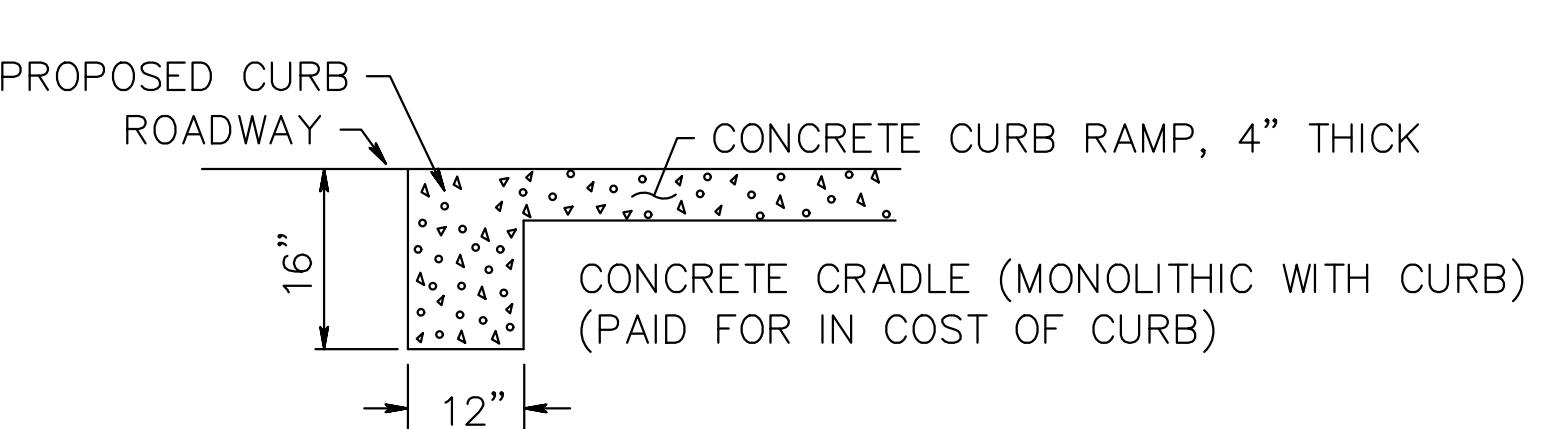
10

CURB RAMP TYPE 3						
W FEET	H INCHES	X1 FEET	L1 FEET	Y INCHES	X2 FEET	L2 FEET
2.5	3	2.5	9	2.5	0.5	5
	4	3.3	10.6	2.5	1.5	7
	5	4.2	12.4	2.5	2.5	9
	6	5.0	14.0	2.5	3.5	11
	7	5.8	15.6	2.5	4.5	13
	8	6.7	17.4	2.5	5.5	15
	9	7.5	19.0	2.5	6.5	17
3.0	*	*	*	*	*	*
	4	3.3	10.6	3.0	1	6
	5	4.2	12.4	3.0	2	8
	6	5.0	14.0	3.0	3	10
	7	5.8	15.6	3.0	4	12
	8	6.7	17.4	3.0	5	14
	9	7.5	19.0	3.0	6	16
3.5	*	*	*	*	*	*
	4	3.3	10.6	3.5	0.5	5
	5	4.2	12.4	3.5	1.5	7
	6	5.0	14.0	3.5	2.5	9
	7	5.8	15.6	3.5	3.5	11
	8	6.7	17.4	3.5	4.5	13
	9	7.5	19.0	3.5	5.5	15
4.0	*	*	*	*	*	*
	4	3.3	10.6	4.0	1	6
	5	4.2	12.4	4.0	2	8
	6	5.0	14.0	4.0	3	10
	7	5.8	15.6	4.0	4	12
	8	6.7	17.4	4.0	5	14
	9	7.5	19.0	4.0	5	14

* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1.
** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.



SECTION THROUGH CURB RAMPS 1 THROUGH 6



DROPPED CURB AND CRADLE

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



DATE:
9/1/17

DRAWN
BY: RM

SCALE
AS NOTED

14 OF 15

REVISIONS

NO. DATE

DESCRIPTION

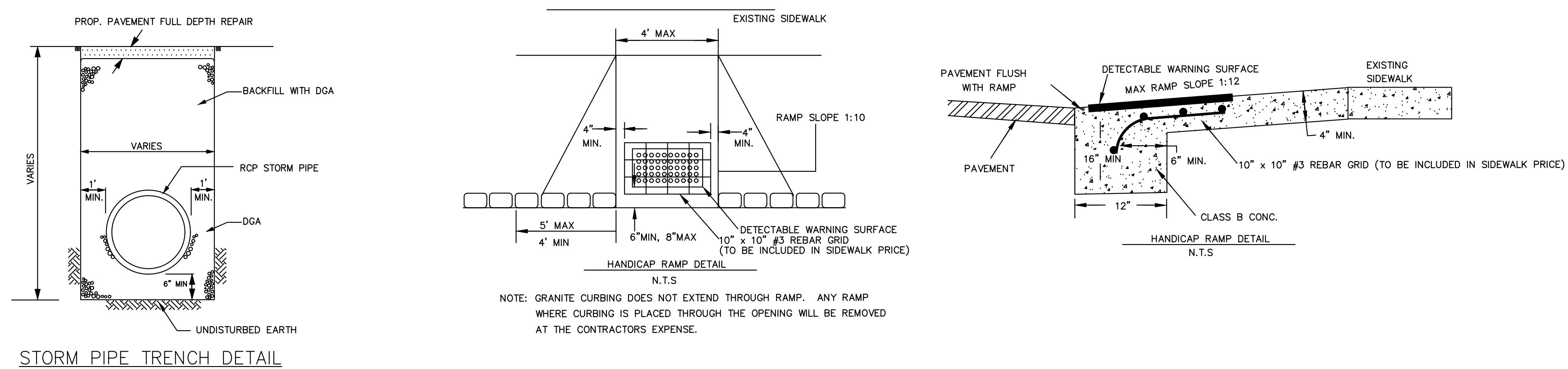


STREET SIGN DETAILS: 9" SIGN (D3-1)

N.T.S.

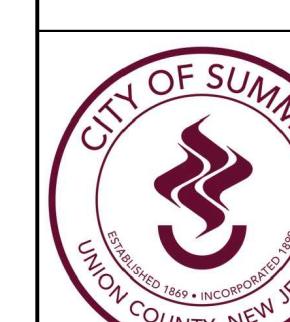
NOTES:

- 1) SIGNS TO BE MOUNTED ON A 2 3/8" OD BLACK POLE
- 2) POLE TO HAVE A 18" MIN CONCRETE FOOTING
- 3) SIGNS TO BE MOUNTED ON A LYLE SIGNS PLACE HOLDER
- 4) COST FOR POST, HARDWARE, AND FOOTING TO BE INCLUDED IN "STREET SIGN POST"
- 5) SIGN WIDTHS MAY VARY
- 6) WHITE BACKGROUND, BLACK LETTERS, BLOCK BORDER
- 7) MUST MEET MUTCD REFLECTIVE STANDARDS
- 8) PROOF MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALL



BUTLER PARKWAY IMPROVEMENT PROJECT
ENTIRE LENGTH
DETAIL PLAN

CITY OF SUMMIT UNION CO., N.J.
DIVISION OF ENGINEERING
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512 SPRINGFIELD AVENUE
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UNION COUNTY

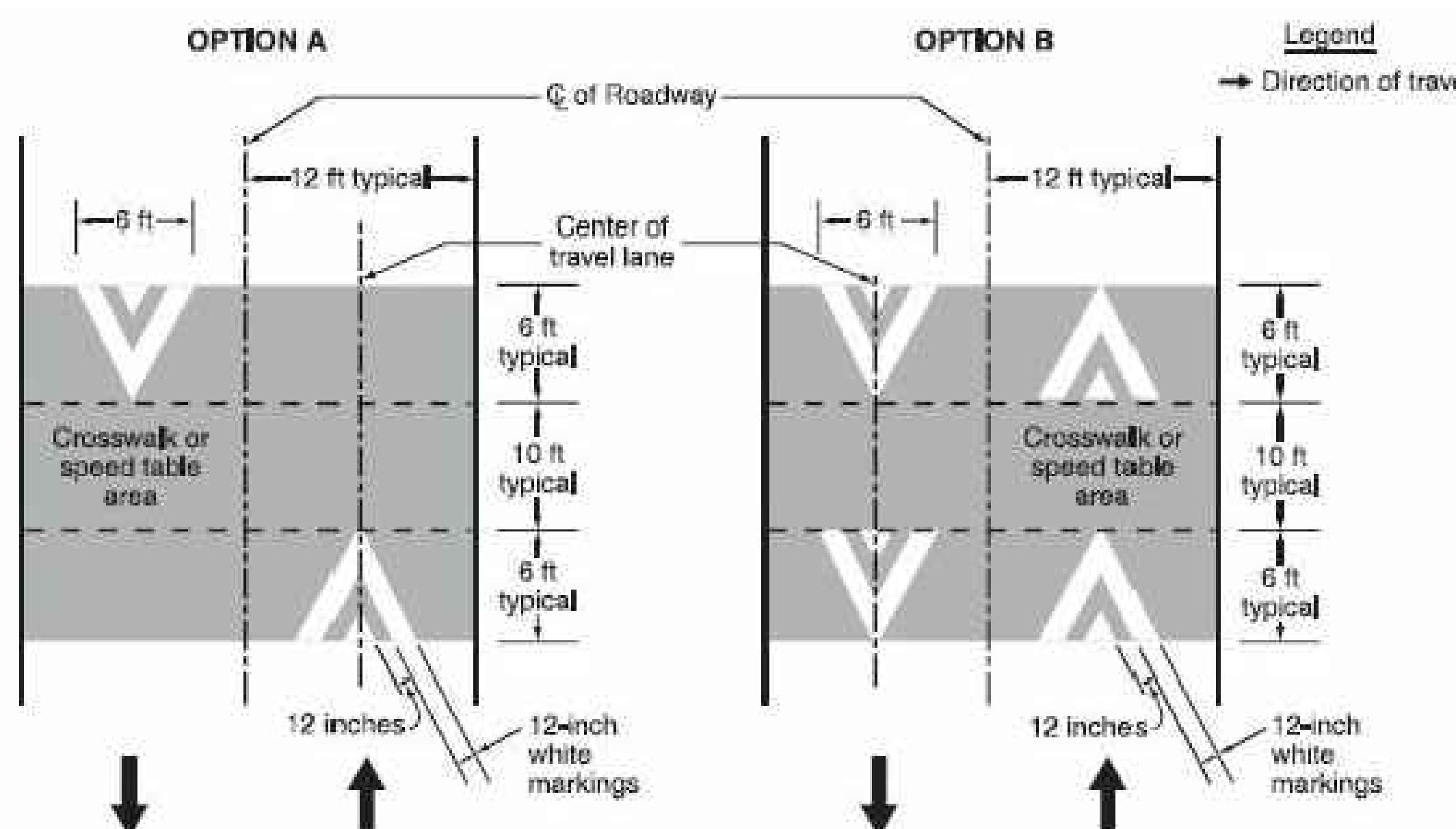


DATE:
9/1/2020

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BY: RM

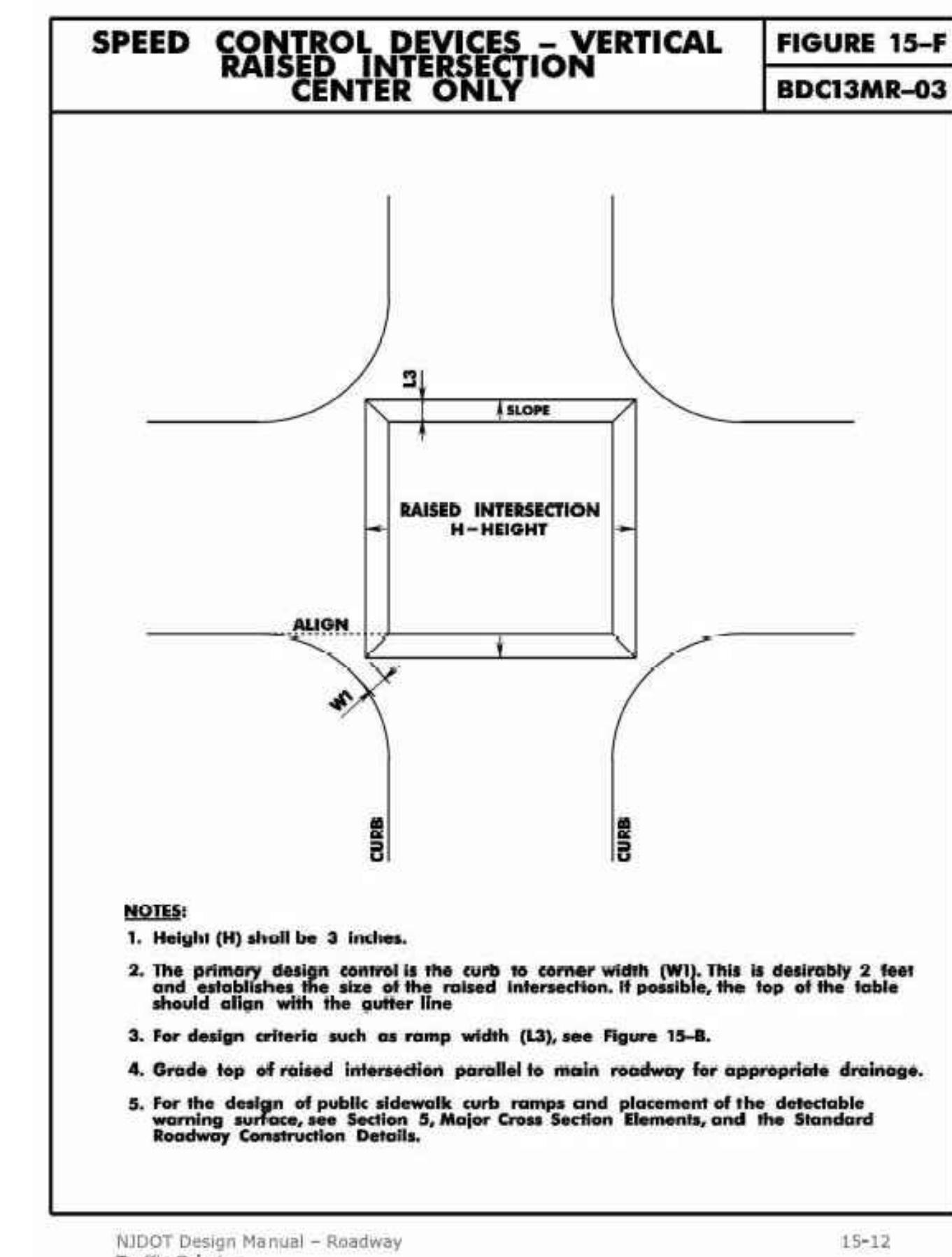
SCALE
AS NOTED

15 OF 15

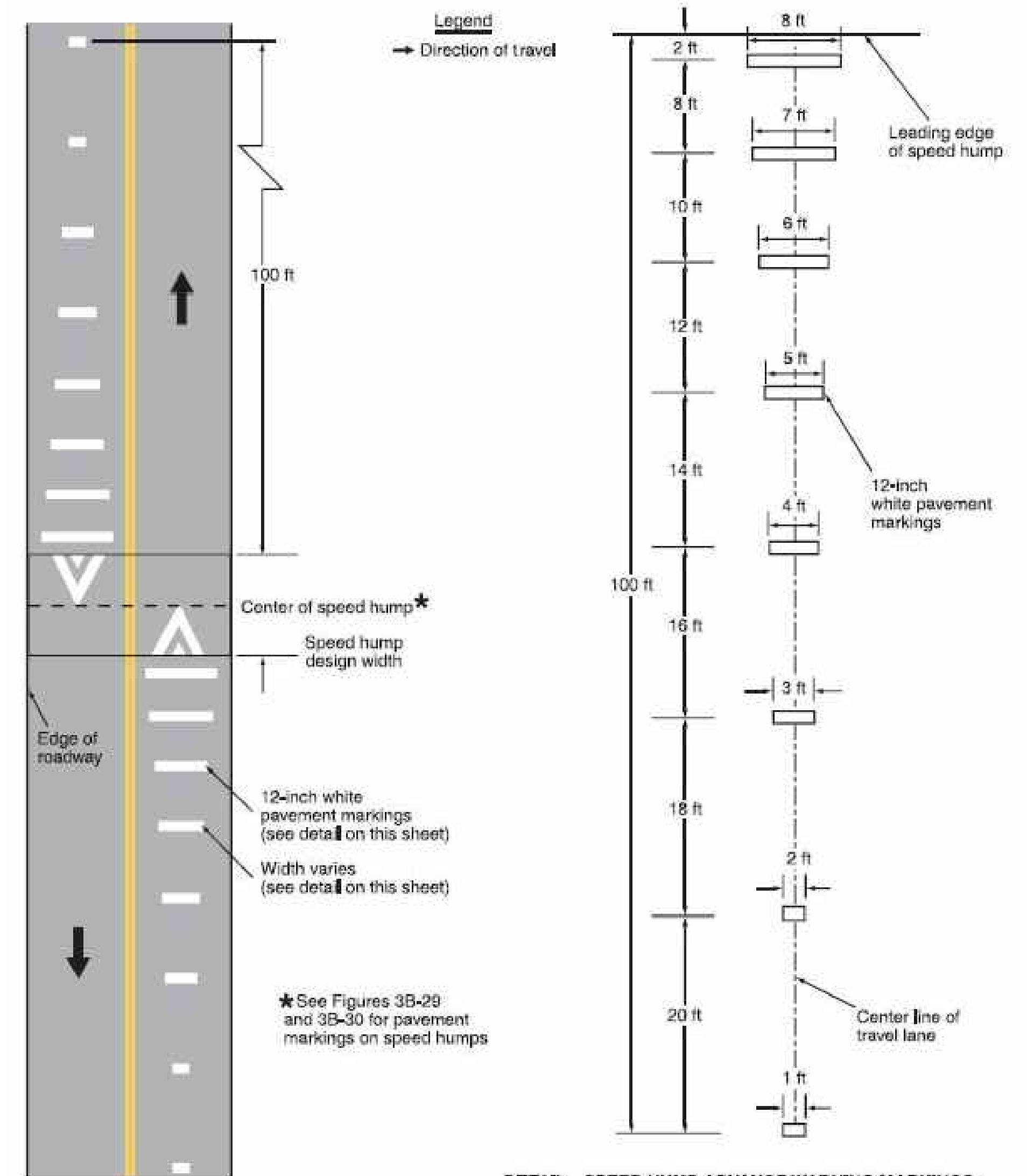


PAVEMENT MARKINGS FOR SPEED TABLES
N.T.S.

Note: Optional crosswalk lines are not shown in this figure.



SPEED CONTROL DEVICES - VERTICAL RAISED INTERSECTION (CENTER ONLY)
N.T.S.



SPEED HUMP ADVANCE WARNING MARKINGS
N.T.S.

REVISIONS
NO. DATE
DESCRIPTION