

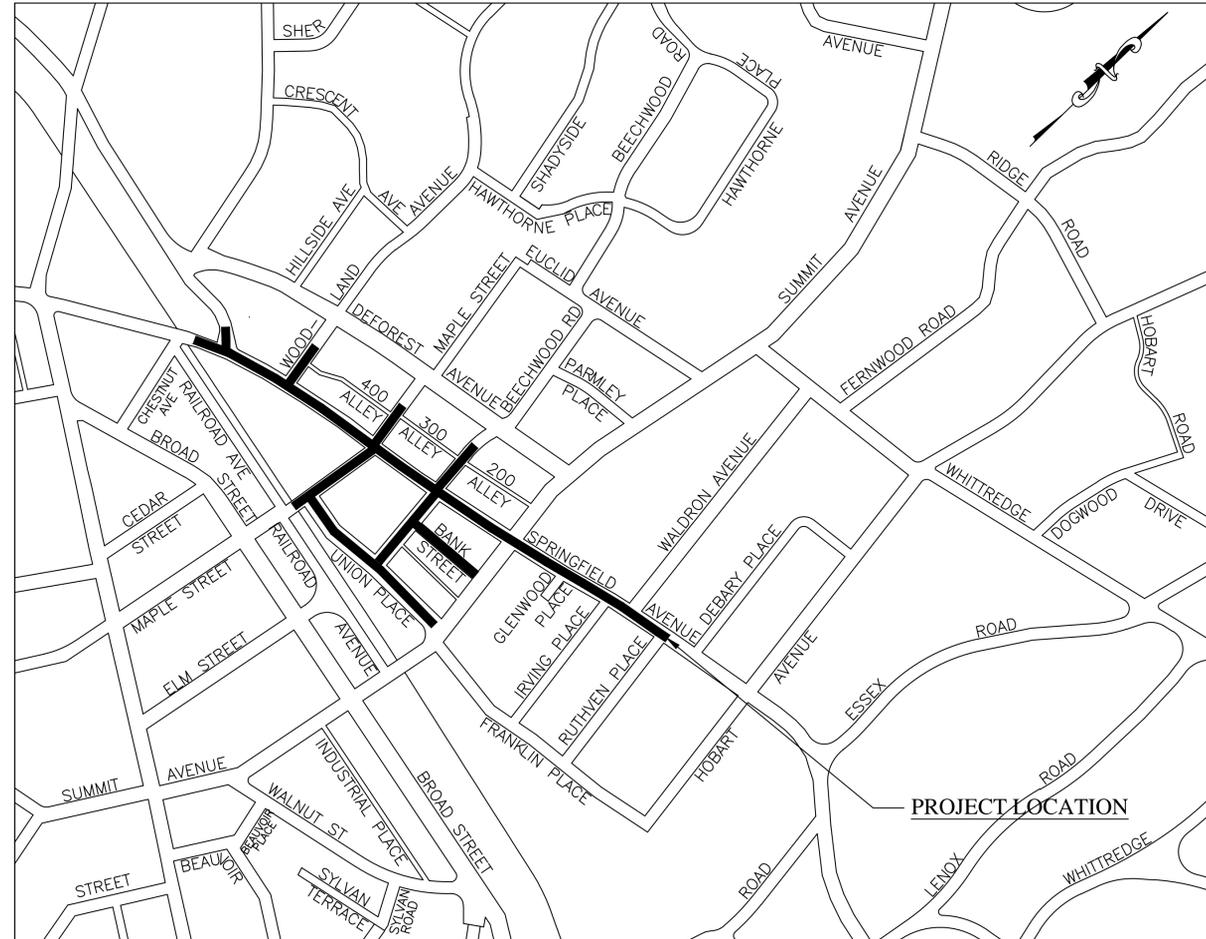
DOWNTOWN ROADS & BEAUTIFICATION PROJECT

CITY OF SUMMIT

UNION COUNTY, NEW JERSEY

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 ENGINEERS 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 CONCRETE WORK AND ALL OTHER WORK EXCEPT FOR MILLING AND PAVING. 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.
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" IN 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.
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 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".
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. 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.
15. NO SEPARATE PAYMENT SHALL BE MADE FOR EXCAVATION, UNCLASSIFIED, IN AREAS WITH UNSUITABLE SUB-BASE OR WHERE NO SUBBASE 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. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL BEHIND THE PROPOSED CURB. ALL COSTS ASSOCIATED WITH THE REMOVAL OF ANY EXISTING MATERIAL BEHIND THE PROPOSED CURB SHALL BE INCLUDED IN THE BID ITEM "CLEARING SITE".
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".
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 IF ANY ARE TO BE SUBMITTED AT A MINIMUM OF THREE (3) WEEKS PRIOR TO CONSTRUCTION FOR ALL PROPOSED DRAINAGE STRUCTURES. ALL DRAINAGE STRUCTURES 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 HATCH MOTT MCDONALD. 908-703-6000.
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, 2007" AND ALL APPLICABLE AMENDMENTS.
22. ALL MILLING AND PAVING OPERATIONS SHALL BE PERFORMED AT NIGHT. WORK CAN BEGIN AT 9:00 PM AND SHALL CEASE BY 6:00 AM.



INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET-KEY MAP
2	ITEMS AND NOTES
3-8	CONSTRUCTION PLANS
9-11	DETAIL SHEETS

Funding Note:

This project is funded by the City of Summit and Summit Downtown Inc.

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.

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 Construction 2007 and all of its amendments and Baseline Document Changes are to govern all construction here in.

UTILITIES

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

Verizon
445 Georges Road
North Brunswick, NJ 08902

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

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

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

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

NO.	DATE	DESCRIPTION

DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
COVER SHEET

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

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



DATE:
4/1/2015

DRAWN
BY: RM

SCALE
AS NOTED

1 OF 11

LEGEND

	EXISTING INLET		PROPOSED CONCRETE APRON
	EXISTING TREE		PROPOSED SIDEWALK/HANDICAP RAMP
	EXISTING EDGE OF PAVEMENT		PROPOSED 6" CONCRETE APRON
	EXISTING CONTOUR		PROPOSED DECORATIVE CONCRETE
	EXISTING UTILITY POLES		RESET EXISTING CASTING
	EXISTING CURB		PROPOSED MANHOLE
	EXISTING STREET SIGN		PROPOSED RCP PIPE
	EXISTING HYDRANT		RECONSTRUCT TYPE B INLET
	EXISTING MANHOLE		PROPOSED B INLET
	EXISTING FENCE		PROPOSED A INLET
	EXISTING SANITARY SEWER		PROPOSED PARKING METER LOCATION
	EXISTING STORM SEWER		PROPOSED PARKING METER REMOVAL
	PROPOSED CURB/DROPCURB		PROPOSED STREET NAME POST AND SIGNS
	FULL DEPTH REPAIR		PROPOSED DECORATIVE WAY FINDING SIGNS
	2" NON METALLIC CONDUIT		



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
 - 7) MUST MEET MUTCD REFLECTIVE STANDARDS

ITEM	DESCRIPTION	UNIT	QTY
GENERAL WORK			
1	MOBILIZATION	LS	LS
2	CLEARING SITE	LS	LS
3	TREE REMOVAL, OVER 6" TO 18", IF AND WHERE DIRECTED	UNIT	2
4	MAINTENANCE AND PROTECTION OF TRAFFIC	LS	LS
5	CONSTRUCTION LAYOUT	LS	LS
6	UTILITY COORDINATION	LS	LS
7	PARKING AND MATERIAL STORAGE	ALLOW	ALLOW
8	INLET FILTERS, TYPE 1	UNIT	72
9	CONSTRUCTION SIGNS	SF	500
10	CONSTRUCTION IDENTIFICATION SIGNS, 18" X 36"	UNIT	9
11	DRUMS	UNIT	50
ROADWAY, CURBING & ADA			
12	HMA MILLING, 2" OR LESS	SY	22,500
13	HOT MIX ASPHALT 9.5M64 SURFACE COURSE	TON	3,000
14	HOT MIX ASPHALT 9.5M64 LEVELING COURSE	TON	500
15	DGA BASE COURSE, 6" THICK, IF AND WHERE DIRECTED	SY	1,000
16	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	60
17	EXCAVATION, TEST PIT, IF AND WHERE DIRECTED	CY	100
18	EXCAVATION, UNCLASSIFIED, IF AND WHERE DIRECTED	CY	100
19	GRANITE CURB	LF	1,500
20	CONCRETE DRIVEWAY, 6" THICK, IF AND WHERE DIRECTED	SY	250
21	CONCRETE SIDEWALK, 4" THICK, IF AND WHERE DIRECTED (ASSESED)	SY	2,800
22	DETECTABLE WARNING SURFACE, BRICKS	SY	80
23	FUEL PRICE ADJUSTMENT	ALLOW	ALLOW
24	ASPHALT PRICE ADJUSTMENT	ALLOW	ALLOW
25	FULL DEPTH REPAIR, IF AND WHERE DIRECTED	SY	500
26	TRAFFIC STRIPES, 6" THICK	LF	50,000
27	TRAFFIC STRIPES, 12" THICK	LF	2,500
28	TRAFFIC MARKINGS	SF	500
29	HOT MIX ASPHALT DRIVEWAY 5" THICK	SY	250
UTILITIES			
30	RECONSTRUCTED MANHOLE, USING NEW CASTING, IF/WHEN DIRECTED	UNIT	3
31	SANITARY SEWER REPAIRS, IF AND WHERE DIRECTED, 10' LENGTH, 10' DEPTH	UNIT	5
32	RESET DECORATIVE STREET LIGHT WITH NEW FOOTING	UNIT	6
33	MANHOLE, 4' DIAMETER	UNIT	3
34	INLET TYPE A	UNIT	6
35	INLET TYPE B	UNIT	6
36	15" REINFORCED CONCRETE PIPE	LF	200
TREES AND PLANTINGS			
37	TREE WELL	UNIT	1
38	LARGE DECIDUOUS TREE, IF AND WHERE DIRECTED	UNIT	5
39	PERENNIAL, VARIOUS, 1 GALLON	UNIT	630
40	TOP SOILING, 4" THICK	SY	200
41	SHREDDED HARDWOOD BARK MULCHING, 3" THICK	SY	200
42	ENGINEERED SOIL, 12" THICK	SY	200
DECORATIVE CROSSWALKS			
43	DECORATIVE CROSSWALKS	SF	3500
LYRIC PARK AND PROMENADE IMPROVEMENTS			
44	STAMPED CONCRETE SIDEWALK, 4" THICK	SY	200
45	DECORATIVE SITTING WALLS	LF	75
STREET AND WAYFINDING SIGNS			
46	DECORATIVE WAYFINDING SIGN POSTS	UNIT	7
47	GUIDE SIGN, TYPE GA, BREAKAWAY SUPPORTS	SF	2400
48	4" CORE DRILL	UNIT	100
49	STREET NAME SIGN POSTS	UNIT	18
ALTERNATE BID A - UNION CIRCLE			
A1	DECORATIVE STAMPED CONCRETE ROAD, 8" THICK	SY	250
ALTERNATE BID B - DARK FIBER CONDUIT			
B1	2" RIGID NON METALLIC CONDUIT	LF	600
B2	24" x 24" JUNCTION BOX	UNIT	3
ALTERNATE BID C - BEECHWOOD ROAD			
C1	DECORATIVE STAMPED CONCRETE ROAD, 8" THICK	SY	2,000
ALTERNATE BID D - DECORATIVE REMOVABLE BOLLARDS			
D1	DECORATIVE REMOVABLE BOLLARDS	UNIT	12

NAME	MUTCD	QTY	INCH (H)	INCH (W)	Square in
ONE WAY	R6-1	9	36	12	432
15 MINUTE PARKING	R7-CUSTOM	1	12	18	216
DO NOT ENTER	R5-1	5	30	30	900
1.5 HR PARKING	R7-CUSTOM	24	12	18	216
STOP	R1-1	3	30	30	900
NO PARKING ANYTIME	R7-1	6	12	18	216
PEDESTRIAN CROSSING	W11-2	3	30	30	900
NO TURN ON RED	R10-11b	18	24	24	576
NO U-TURN	R3-4	4	24	24	576
LEFT TURN & STRAIGHT	R3-8	8	30	30	900
SPEED LIMIT 25	R2-1	1	24	30	720
SPRINGFIELD AVENUE	D3-1	1	9	24	216
KENT PLACE BOULEVARD	D3-1	3	9	24	216
WOODLAND AVENUE	D3-1	3	9	24	216
MAPLE STREET	D3-1	1	9	24	216
BEECHWOOD ROAD	D3-1	3	9	24	216
BANK STREET	D3-1	3	9	24	216
UNION PLACE	D3-1	1	9	24	216
SUMMIT AVENUE	D3-1	3	9	24	216
GLENWOOD PLACE	D3-1	3	9	24	216
REDUCE SPEED AHEAD	R2-5	1	24	30	720
PASSENGER DROP OFF	R7-CUSTOM	1	9	24	216
HANDICAP PARKING	R7-8	5	12	18	216
PENALTY OFFENSE	R7-8P	5	10	12	120
VAN ACCESSIBLE	R7-8P	1	18	9	162
DO NOT BLOCK DRIVEWAY	R10-7	1	24	30	720
1 HR PARKING	R7-CUSTOM	2	12	18	216
MEDIAN, YIELD RIGHT	R4-7	1	24	30	720
ROUNDBABOUT	R3-5	3	30	36	1080
NO IDLING	MISC	1	12	18	216
KEEP RIGHT	R4-7a	2	24	30	720
NO STOPPING OR STANDING	R7-4	1	12	18	216
NO PARKIN LOADING ZONE	R7-6	1	12	18	216
NO LEFT TURN	R3-2	2	24	24	576



N.T.S. (24"x30")	N.T.S. (30"x30")	N.T.S. (30"x30")	N.T.S. (12"x18")
R2-1	R5-1	R3-8	R7-CUSTOM
N.T.S. (12"x18")	N.T.S. (36"x12")	N.T.S. (18"x9")	N.T.S. (30"x30")
R7-1	R6-1	R7-8P	W11-2
N.T.S. (12"x18")	N.T.S. (30"x30")	N.T.S. (36"x36")	N.T.S. (24"x24")
R7-CUSTOM	R1-1	R10-11b	R3-4
N.T.S. (12"x18")	N.T.S. (24"x30")	N.T.S. (12"x18")	N.T.S. (24"x12")
R7-CUSTOM	R10-7	R7-1	M3-1
N.T.S. (24"x30")	N.T.S. (24"x30")	N.T.S. (30"x36")	N.T.S.
R2-5	R4-7	R3-5	
N.T.S.	N.T.S. (12"x18")	N.T.S. (10"x12")	N.T.S. (24"x30")
R7-4	R7-6	R3-2	R7-CUSTOM
N.T.S. (12"x18")	N.T.S. (12"x18")	N.T.S. (24"x24")	N.T.S.

*CONTRACTOR SHALL SUBMIT SIGN SHEET FOR APPROVAL PRIOR TO ORDERING.

NO.	DATE	REVISIONS DESCRIPTION

DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS

ITEMS AND NOTES

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

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

DATE: 4/1/2015

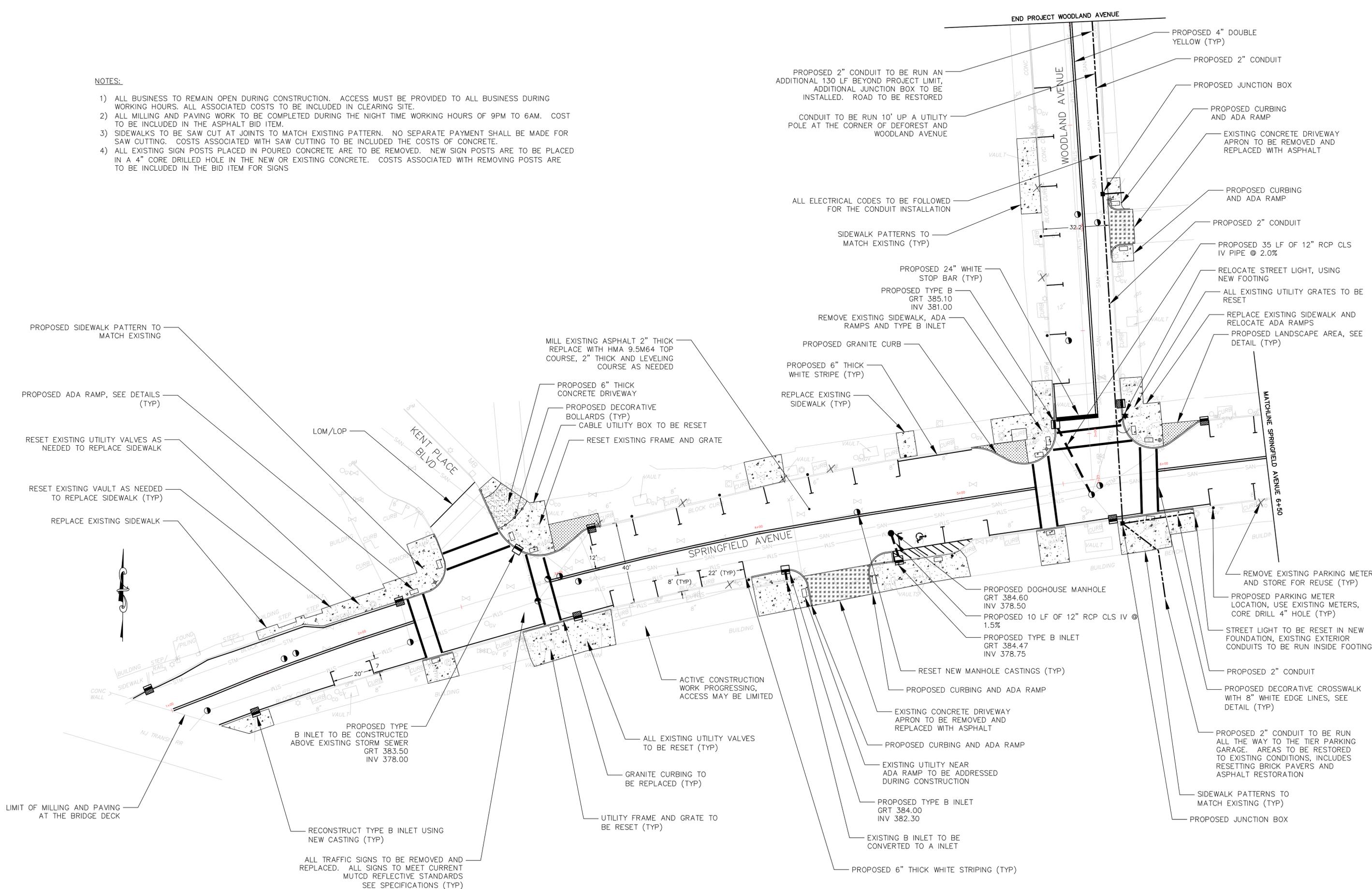
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SCALE AS NOTED

2 OF 11

NOTES:

- 1) ALL BUSINESS TO REMAIN OPEN DURING CONSTRUCTION. ACCESS MUST BE PROVIDED TO ALL BUSINESS DURING WORKING HOURS. ALL ASSOCIATED COSTS TO BE INCLUDED IN CLEARING SITE.
- 2) ALL MILLING AND PAVING WORK TO BE COMPLETED DURING THE NIGHT TIME WORKING HOURS OF 9PM TO 6AM. COST TO BE INCLUDED IN THE ASPHALT BID ITEM.
- 3) SIDEWALKS TO BE SAW CUT AT JOINTS TO MATCH EXISTING PATTERN. NO SEPARATE PAYMENT SHALL BE MADE FOR SAW CUTTING. COSTS ASSOCIATED WITH SAW CUTTING TO BE INCLUDED THE COSTS OF CONCRETE.
- 4) ALL EXISTING SIGN POSTS PLACED IN POURED CONCRETE ARE TO BE REMOVED. NEW SIGN POSTS ARE TO BE PLACED IN A 4" CORE DRILLED HOLE IN THE NEW OR EXISTING CONCRETE. COSTS ASSOCIATED WITH REMOVING POSTS ARE TO BE INCLUDED IN THE BID ITEM FOR SIGNS



NO.	DATE	DESCRIPTION

**DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
CONSTRUCTION PLAN 1**

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

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



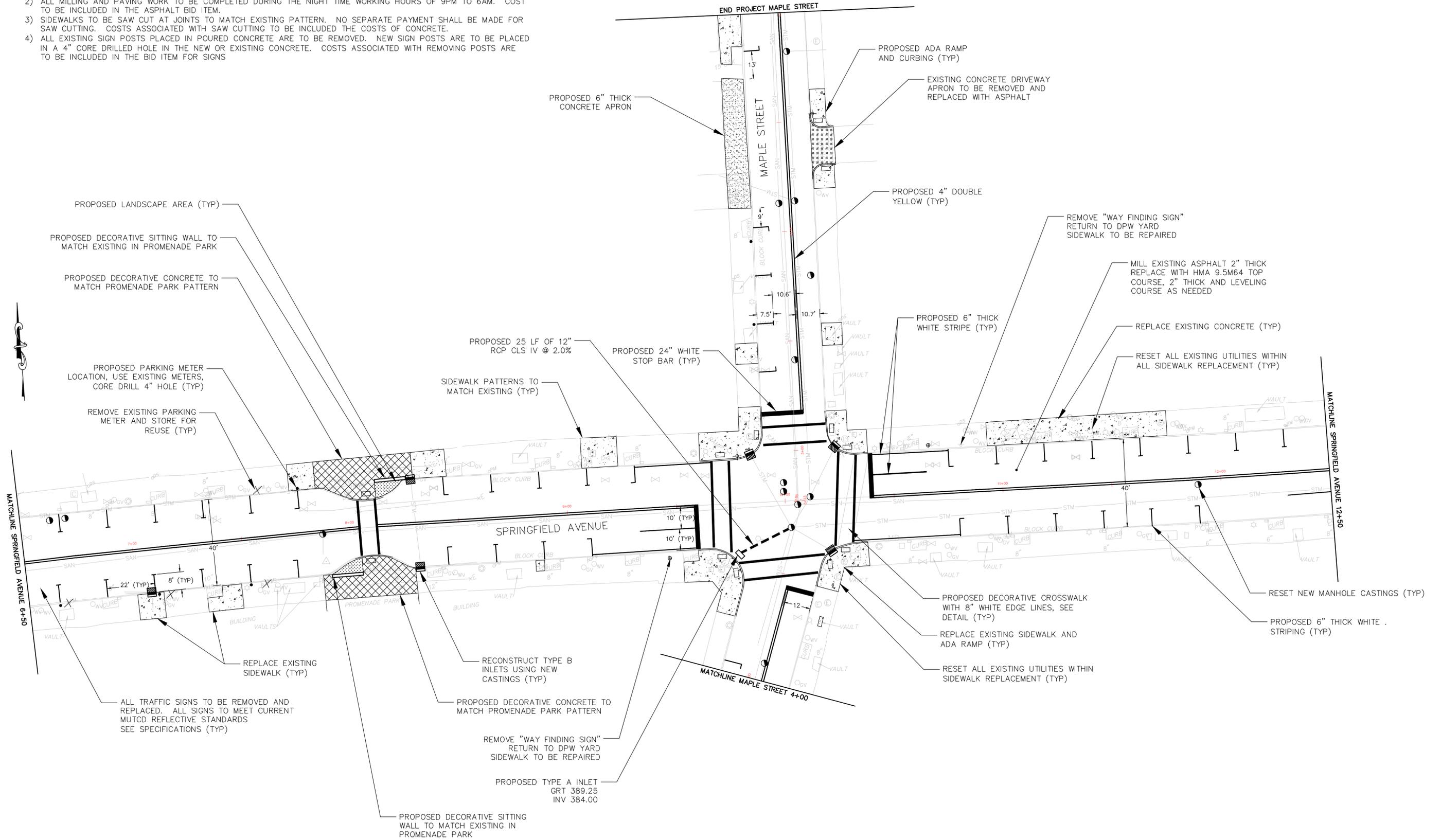
DATE:
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SCALE
1" = 20'

NOTES:

- 1) ALL BUSINESS TO REMAIN OPEN DURING CONSTRUCTION. ACCESS MUST BE PROVIDED TO ALL BUSINESS DURING WORKING HOURS. ALL ASSOCIATED COSTS TO BE INCLUDED IN CLEARING SITE.
- 2) ALL MILLING AND PAVING WORK TO BE COMPLETED DURING THE NIGHT TIME WORKING HOURS OF 9PM TO 6AM. COST TO BE INCLUDED IN THE ASPHALT BID ITEM.
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- 4) ALL EXISTING SIGN POSTS PLACED IN POURED CONCRETE ARE TO BE REMOVED. NEW SIGN POSTS ARE TO BE PLACED IN A 4" CORE DRILLED HOLE IN THE NEW OR EXISTING CONCRETE. COSTS ASSOCIATED WITH REMOVING POSTS ARE TO BE INCLUDED IN THE BID ITEM FOR SIGNS



NO.	DATE	REVISIONS	DESCRIPTION

**DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
CONSTRUCTION PLAN 2**

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

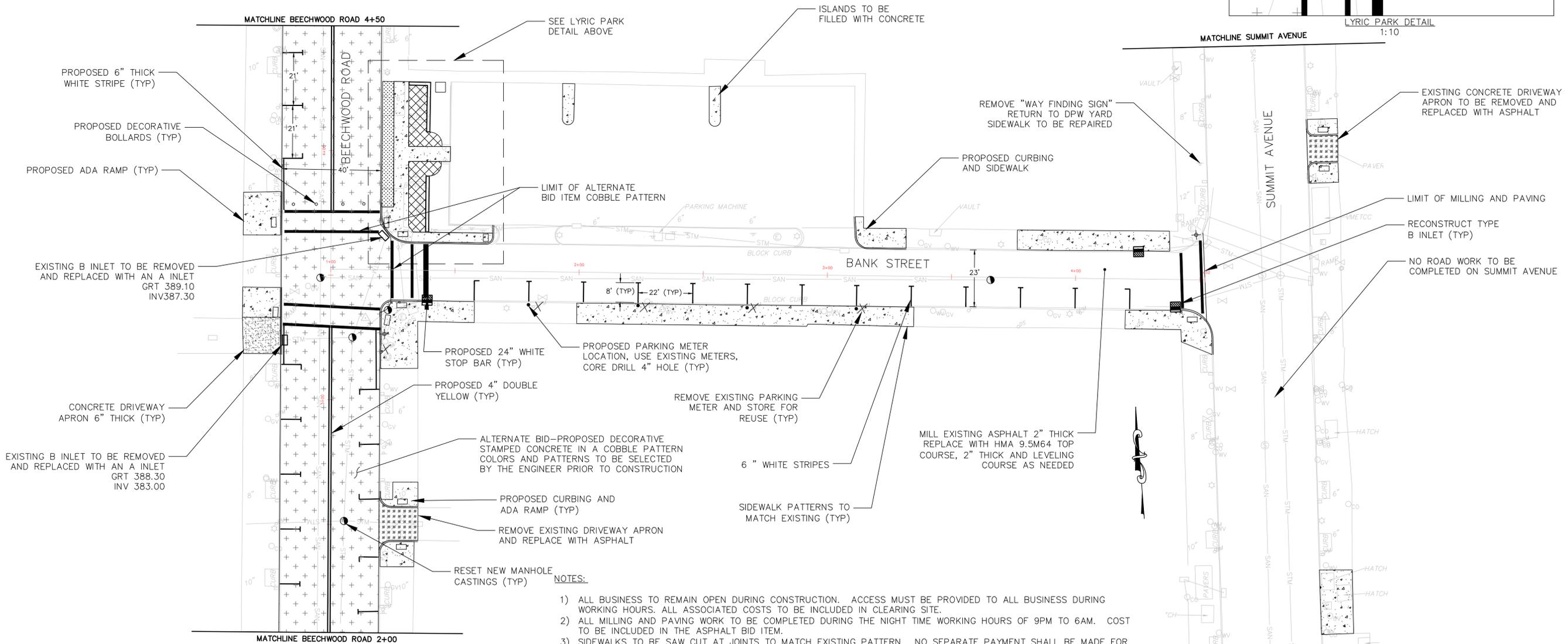
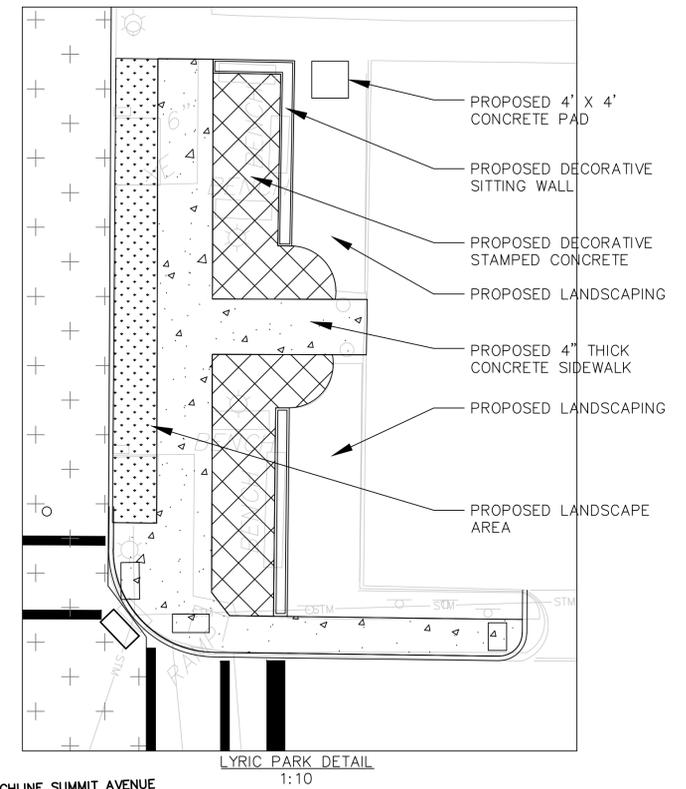
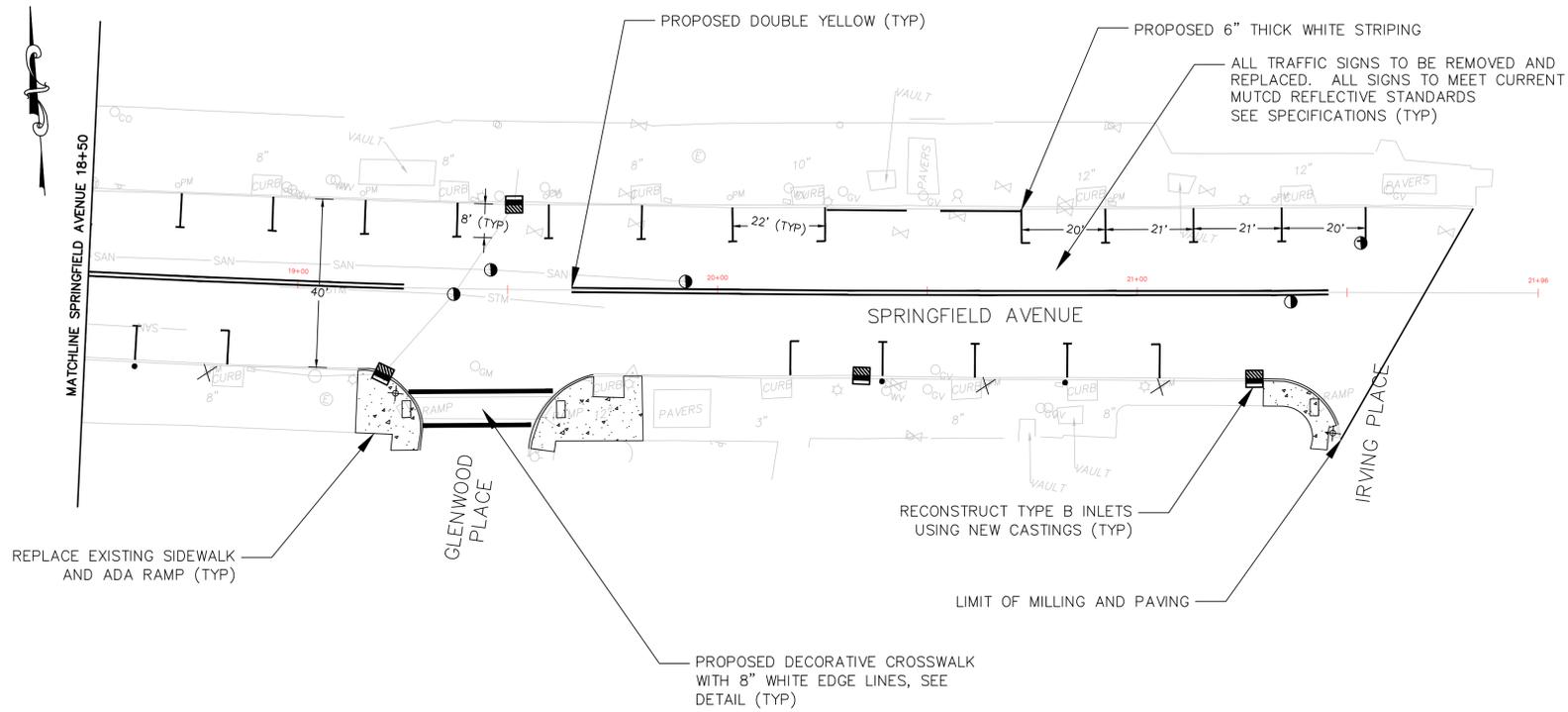
Aaron J. Schragar
 Professional Engineer
 New Jersey Lic. No. 46143
 City Engineer



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4/1/2015

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SCALE
1" = 20'



NOTES:

- 1) ALL BUSINESS TO REMAIN OPEN DURING CONSTRUCTION. ACCESS MUST BE PROVIDED TO ALL BUSINESS DURING WORKING HOURS. ALL ASSOCIATED COSTS TO BE INCLUDED IN CLEARING SITE.
- 2) ALL MILLING AND PAVING WORK TO BE COMPLETED DURING THE NIGHT TIME WORKING HOURS OF 9PM TO 6AM. COST TO BE INCLUDED IN THE ASPHALT BID ITEM.
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- 4) ALL EXISTING SIGN POSTS PLACED IN POURED CONCRETE ARE TO BE REMOVED. NEW SIGN POSTS ARE TO BE PLACED IN A 4" CORE DRILLED HOLE IN THE NEW OR EXISTING CONCRETE. COSTS ASSOCIATED WITH REMOVING POSTS ARE TO BE INCLUDED IN THE BID ITEM FOR SIGNS

NO.	DATE	DESCRIPTION

**DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
CONSTRUCTION PLAN 4**

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

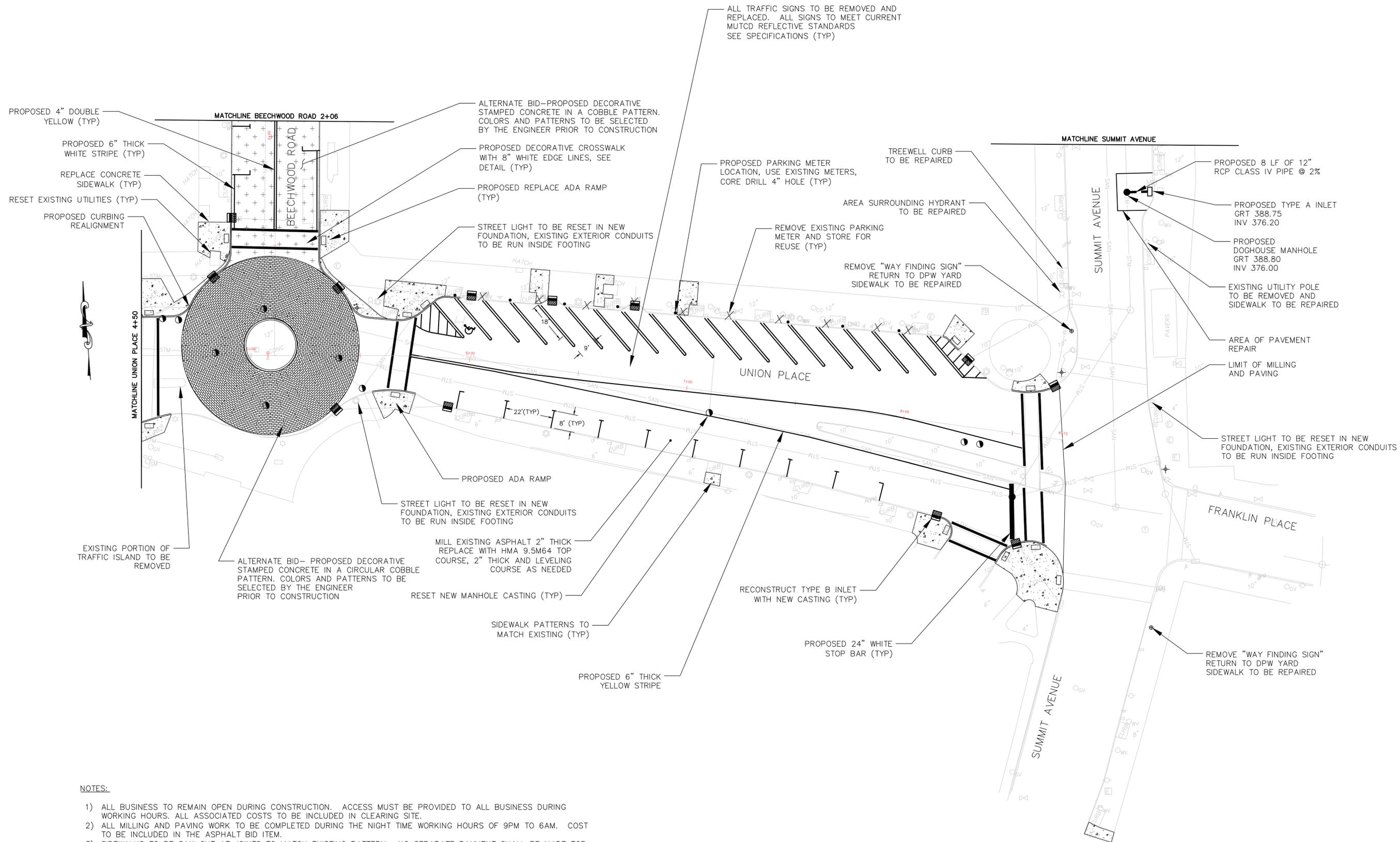
Aaron J. Schragar
Professional Engineer
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City Engineer



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NO.	DATE	REVISIONS	DESCRIPTION

**DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
CONSTRUCTION PLAN 6**

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

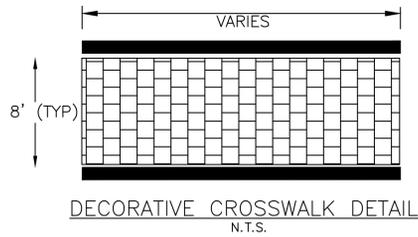
Aaron J. Schrager
 Professional Engineer
 New Jersey Lic. No. 46143
 City Engineer



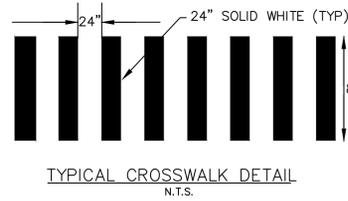
DATE:
4/1/2015

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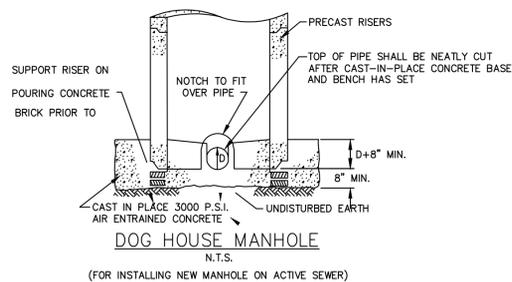
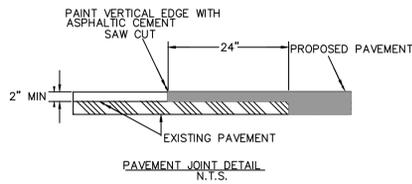
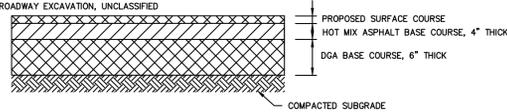
SCALE
1" = 20'



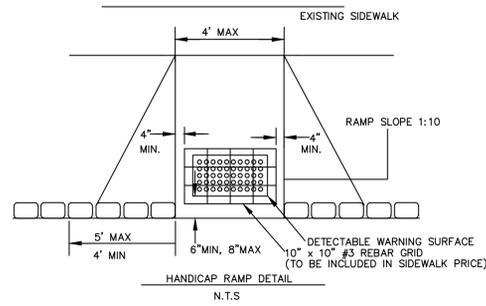
- Note:**
- 1) ALL CROSSWALKS MUST MEET ADA, NJDOT AND CITY OF SUMMIT STANDARDS
 - 2) THE STAMPED PATTERN IS TO BE A 8X8 TILE
 - 3) THE CROSSWALK TO BE A POLYMER CEMENT SLURRY SURFACE
 - 4) CROSSWALK IS TO HAVE 8" WHITE STRIPES ON EITHER SIDE
 - 5) TILE PATTERN COLOR TO BE BRICK RED
 - 6) CROSSWALK TO MATCH EXISTING DOWNTOWN CROSSWALKS



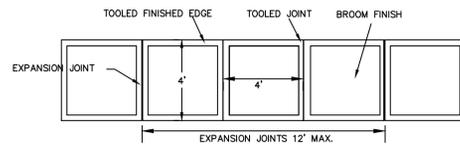
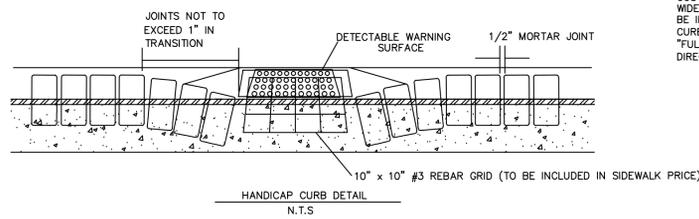
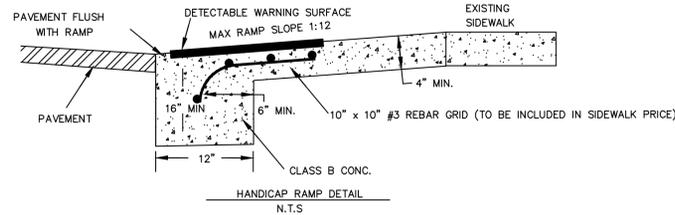
- NOTES**
1. REMOVE AND REPLACE ROADWAY BASE SHALL CONSIST OF THE REMOVAL OF UNSUITABLE ROADWAY BASE MATERIAL OF WHATEVER NATURE ENCOUNTERED TO A DEPTH OF AT LEAST 10" UNCOVERED AFTER MILLING OR VISIBLE PRIOR TO MILLING OR RESURFACING AND THE INSTALLATION OF AT LEAST 4" HOT MIX ASPHALT BASE COURSE AND 6" DGA. THE PERIMETER OF THE REPAIR SHALL BE SAWCUT.
 2. THE FOLLOWING ITEMS OF WORK ARE INCLUDED UNDER REMOVE AND REPLACE ROADWAY BASE:
 - SAWCUT
 - HOT MIX ASPHALT BASE COURSE
 - DGA
 - ROADWAY EXCAVATION, UNCLASSIFIED



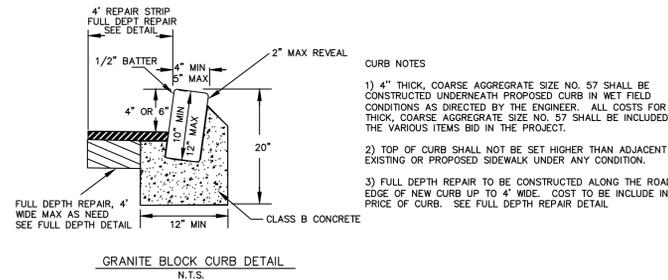
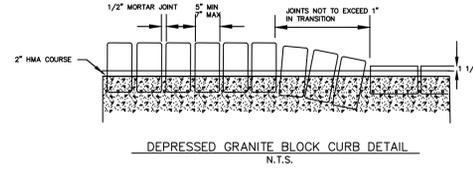
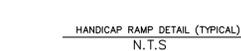
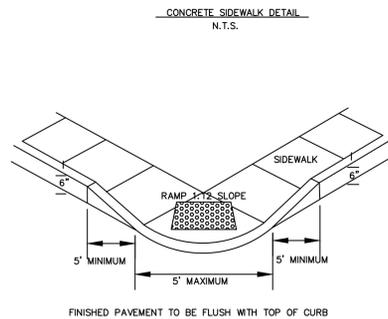
- NOTES:**
1. FOR DETAIL OF UPPER PART OF MANHOLE, SEE "STANDARD MANHOLE" DETAIL
 2. ACRYLIMIDE GEL GROUT INJECTION SHALL BE USED TO STOP LEAKS, IF ANY, AROUND MANHOLE SEAMS AND PIPES.



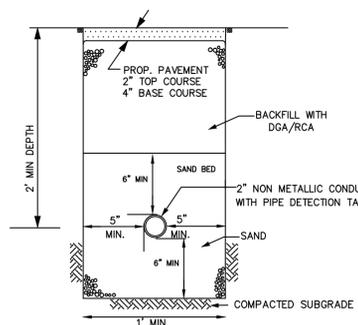
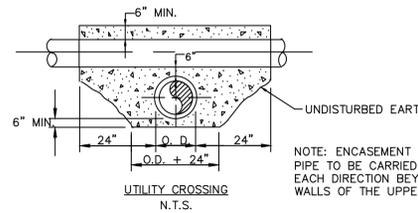
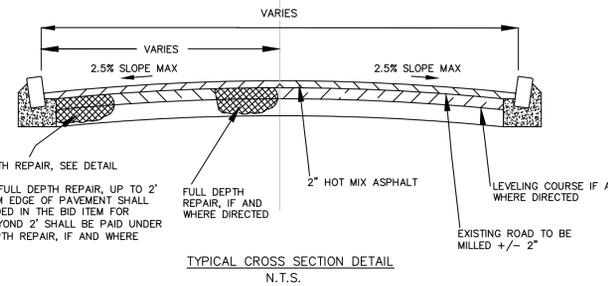
NOTE: GRANITE CURBING DOES NOT EXTEND THROUGH RAMP. ANY RAMP WHERE CURBING IS PLACED THROUGH THE OPENING WILL BE REMOVED AT THE CONTRACTORS EXPENSE.



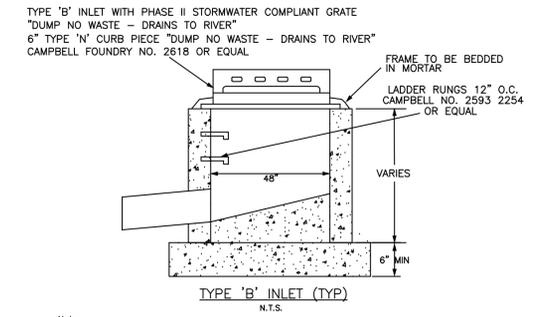
- NOTE:** 1) ALL SIDEWALK MUST BE SPRAYED WITH WHITE PIGMENTED CURING COMPOUND AFTER BROOM FINISHING. 2) CONCRETE TO BE POURED OVER 2" LAYER OF COMPACTED CLEAN STONE. 3) CONCRETE TO BE CLASS B 3500LB MIX.



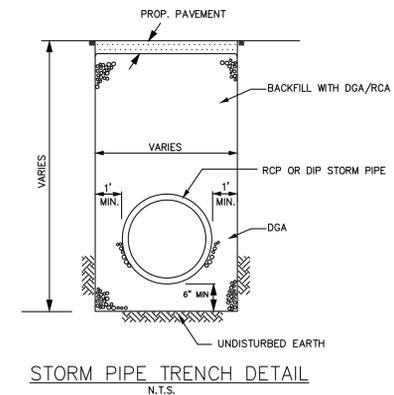
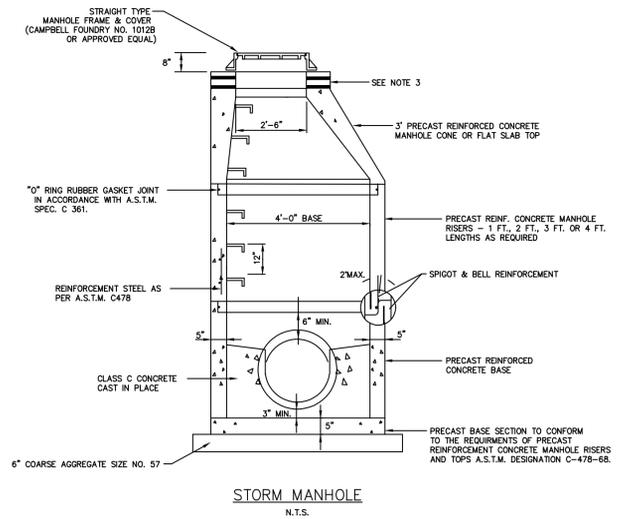
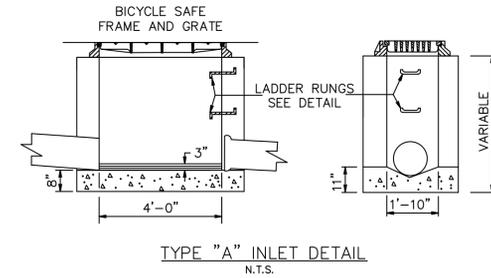
- CURB NOTES**
- 1) 4" THICK, COARSE AGGREGATE SIZE NO. 57 SHALL BE CONSTRUCTED UNDERNEATH PROPOSED CURB IN WET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALL COSTS FOR 4" THICK, COARSE AGGREGATE SIZE NO. 57 SHALL BE INCLUDED IN THE VARIOUS ITEMS BID IN THE PROJECT.
 - 2) TOP OF CURB SHALL NOT BE SET HIGHER THAN ADJACENT EXISTING OR PROPOSED SIDEWALK UNDER ANY CONDITION.
 - 3) FULL DEPTH REPAIR TO BE CONSTRUCTED ALONG THE ROAD EDGE OF NEW CURB UP TO 4' WIDE. COST TO BE INCLUDE IN PRICE OF CURB. SEE FULL DEPTH REPAIR DETAIL.



- PIPE ITEM SHALL INCLUDE:**
- EXCAVATION
 - REMOVAL/HAULING OF EXCAVATION
 - PIPE
 - BEDDING/DGA/RCA/SAND
 - BACKFILLING
 - SAWCUTTING
 - BASE AND TOP COURSE



- Note:**
- 1) ALL PIPES ARE TO BE CUT FLUSH WITH BASIN WALL.
 - 2) COST FOR FRAME AND GRATE ARE INCLUDED IN 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.



- PIPE ITEM SHALL INCLUDE:**
- EXCAVATION
 - REMOVAL/HAULING OF EXCAVATION
 - PIPE
 - BEDDING/DGA
 - BACKFILLING
 - SAWCUTTING
 - TEMPORARY BASE HMA REPAIR

NO.	DATE	REVISIONS	DESCRIPTION

DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
DETAIL SHEET 1

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

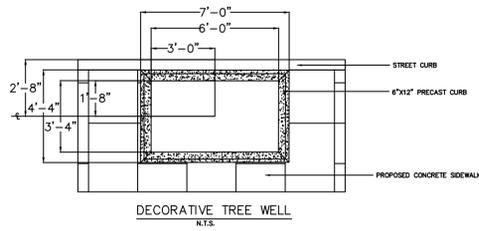
Aaron J. Schragar
Professional Engineer
New Jersey Lic. No. 46143
City Engineer



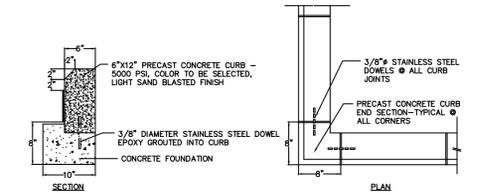
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4/1/2015

DRAWN BY: RM

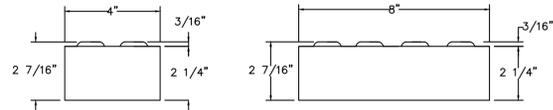
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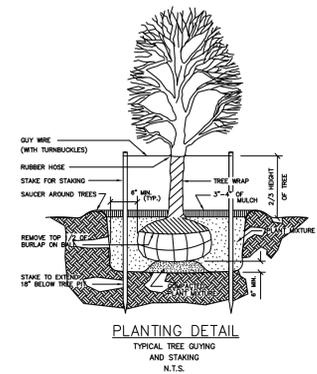
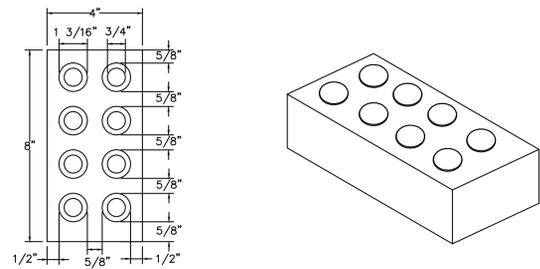
DECORATIVE TREE WELL
N.T.S.



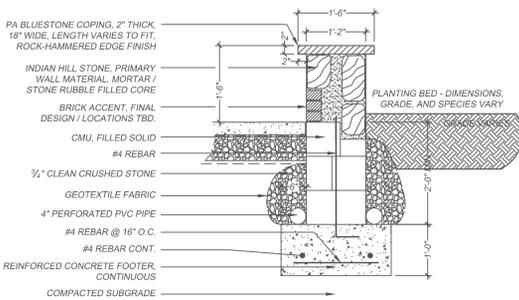
TREE PIT PRECAST CONCRETE SECTION (TPPCS)
N.T.S.



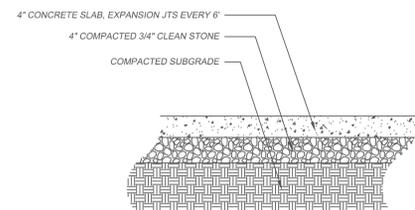
ADA CURB RAMP DEMARCATON BRICKS DETAIL
N.T.S.



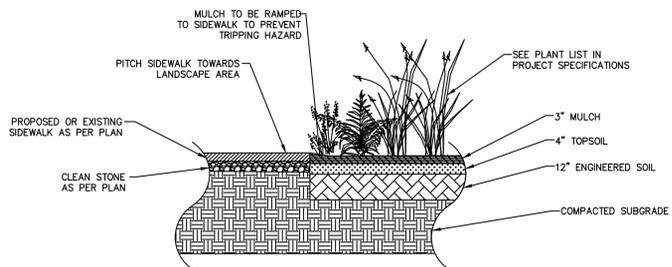
PLANTING DETAIL
TYPICAL TREE CUTTING AND STAKING
N.T.S.



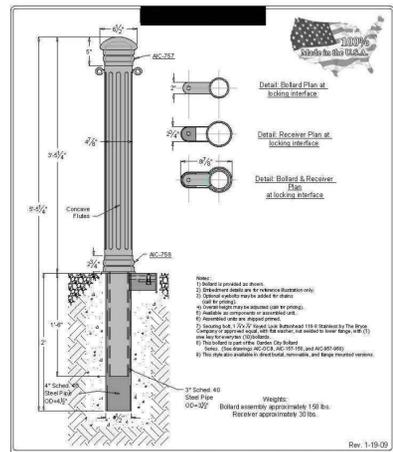
DECORATIVE SITTING WALL DETAIL
N.T.S.



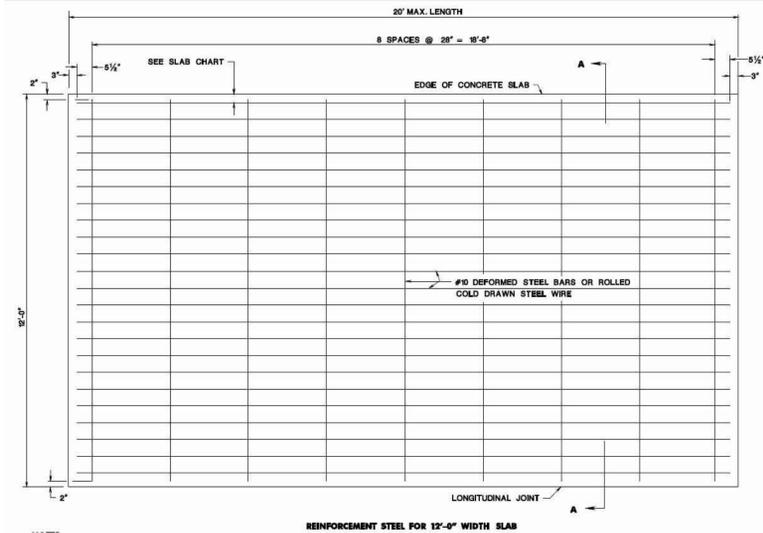
STAMPED CONCRETE DETAIL
N.T.S.



PROPOSED LANDSCAPE AREA
N.T.S.



REMOVABLE BOLLARD DETAIL
N.T.S.



REINFORCEMENT STEEL FOR 12'-0" WIDTH SLAB

- NOTES:
- REINFORCEMENT STEEL MATS DIFFERING WITH RESPECT TO THEIR LENGTH, SPACING OF TRANSVERSE REINFORCEMENT STEEL AND TYPE OF FABRICATION FROM THE MAT SHOWN IN THESE DRAWINGS MAY BE USED, PROVIDED THAT (a) THE MATS HAVE THE SAME SIZE AND SPACING OF LONGITUDINAL REINFORCEMENT STEEL AND PROVIDE AT LEAST THE SAME NUMBER OF TRANSVERSE REINFORCEMENT STEEL PER SLAB, AS CALLED FOR IN THESE DRAWINGS, AND (b) APPROVAL FOR USE HAS BEEN OBTAINED FROM THE DEPARTMENT.
 - * SEE SLAB CHART
 - AN EDGE CLEARANCE OF 3" IS REQUIRED OF OUTSIDE LONGITUDINAL REINFORCEMENT STEEL, SPACE REINFORCEMENT STEEL, EVENLY ACROSS WIDTH OF SLAB WITH A MAXIMUM SPACING OF 7 1/2" FOR SLABS WITH A THICKNESS OF LESS THAN 10" AND 4" FOR SLABS WITH A THICKNESS OF 10" OR GREATER.

SLAB CHART FOR THICKNESS LESS THAN 10"	
* WIDTH OF SLAB	3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16'
NUMBER OF LONGITUDINAL REINFORCING STEEL	5 6 8 9 11 13 14 16 17 19 21 22 24 25
SLAB CHART FOR 10" THICKNESS OR GREATER	
* WIDTH OF SLAB	3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16'
NUMBER OF LONGITUDINAL REINFORCING STEEL	6 8 10 12 14 16 18 20 22 24 26 28 30 32

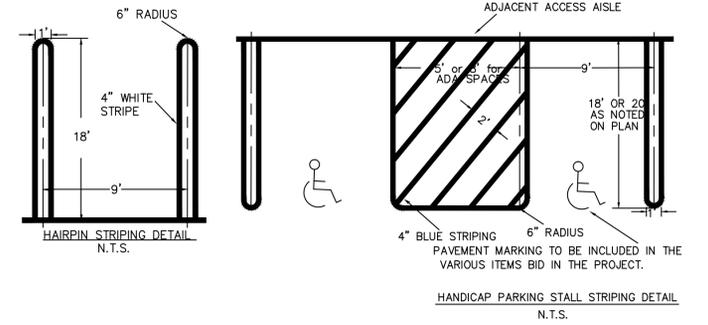


SECTION A-A

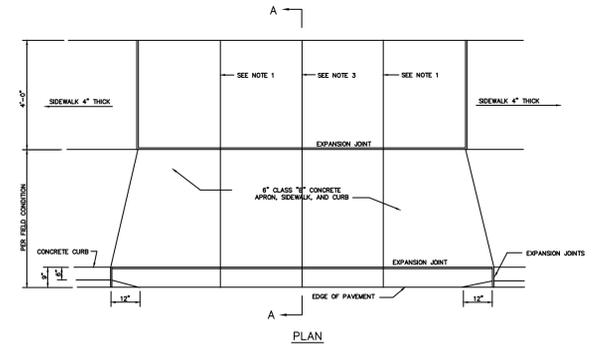
REINFORCEMENT REQUIREMENTS WHEN USING WELDED STEEL WIRE FABRIC

- SLABS LESS THAN 10 INCHES THICK:**
- USE SIZE NO. W8.6 LONGITUDINAL WIRE SPACED 8 INCHES ON CENTER.
 - USE SIZE NO. W4.7 TRANSVERSE WIRE SPACED 12 INCHES ON CENTER.
 - ENSURE THAT THE EDGE CLEARANCE IS 3 INCHES FOR OUTSIDE LONGITUDINAL WIRE.
 - ENSURE THAT THE MAXIMUM EDGE CLEARANCE IS 11 INCHES FOR THE LAST TRANSVERSE WIRE.
 - ENSURE THAT THE END CLEARANCE IS BETWEEN 1 INCH AND 3 INCHES FOR THE LONGITUDINAL WIRE.
 - ENSURE THE LONGITUDINAL WIRES ARE LAPPED A MINIMUM OF 12 INCHES.
- SLABS 10 INCHES THICK OR GREATER:**
- USE SIZE NO. W10.5 LONGITUDINAL WIRE SPACED 8 INCHES ON CENTER.
 - USE SIZE NO. W6.5 TRANSVERSE WIRE SPACED 12 INCHES ON CENTER.
 - ENSURE THAT THE EDGE CLEARANCE IS 3 INCHES FOR OUTSIDE LONGITUDINAL WIRE.
 - ENSURE THAT THE MAXIMUM EDGE CLEARANCE IS 11 INCHES FOR THE LAST TRANSVERSE WIRE.
 - ENSURE THAT THE END CLEARANCE IS BETWEEN 1 INCH AND 3 INCHES FOR THE LONGITUDINAL WIRE.
 - ENSURE THE LONGITUDINAL WIRES ARE LAPPED A MINIMUM OF 12 INCHES.

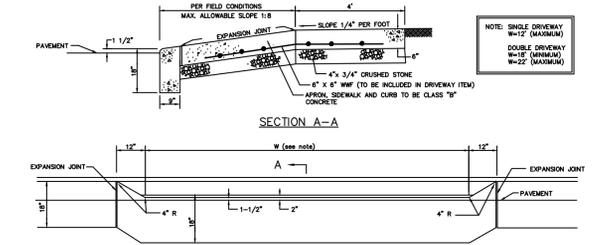
DECORATIVE STAMPED CONCRETE ROAD, 8" THICK
N.T.S.



HANDICAP PARKING STALL STRIPING DETAIL
N.T.S.



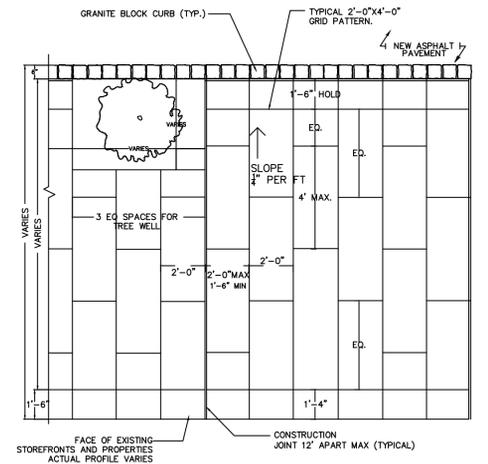
PLAN



SECTION A-A

- NOTES:
- DOUBLE DRIVEWAY - CONTRACTION JOINT CONSTRUCTED WITH A 1/8" STEEL PLATE. SINGLE DRIVEWAY - BLIND JOINT 1/2" DEEP SURFACE GROOVE.
 - SUBGRADE IS TO BE COMPACTED IN A MANNER SUITABLE TO THE ENGINEER.
 - EXPANSION JOINTS ARE TO BE 1/2" WIDE AND FILLED WITH PREFORMED HOT MIX ASPHALT TYPE JOINT FILLER. THE TOP OF ALL JOINT FILLER SHALL BE 1/4" BELOW THE TOP OF THE SURFACE.
 - BLIND JOINTS ARE TO BE SURFACE GROOVE CUT INTO SIDEWALK 1/2" DEEP.
 - ALL CONCRETE SURFACES SHALL BE TREATED WITH A CONCRETE CURING AND SEALING COMPOUND.

CONCRETE DRIVEWAY, 6" THICK
N.T.S.



DECORATIVE SIDEWALK PATTERN 2' X 4'
N.T.S.

NO.	DATE	REVISIONS	DESCRIPTION

DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
DETAIL SHEET 2

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

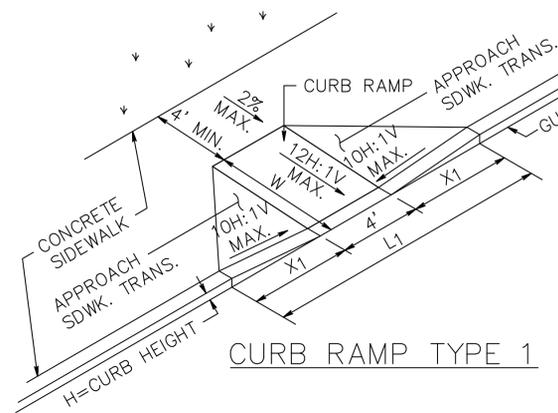
Aaron J. Schragger
Professional Engineer
New Jersey Lic. No. 46143
City Engineer



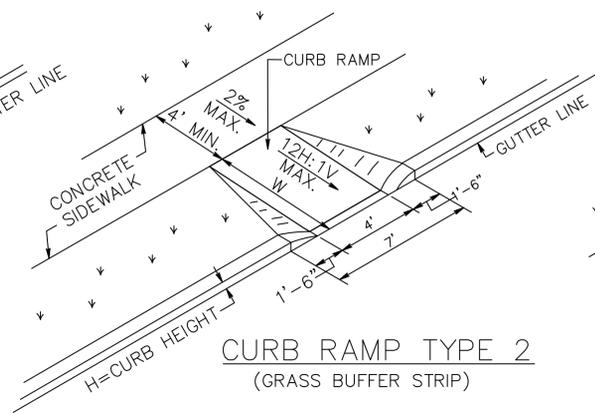
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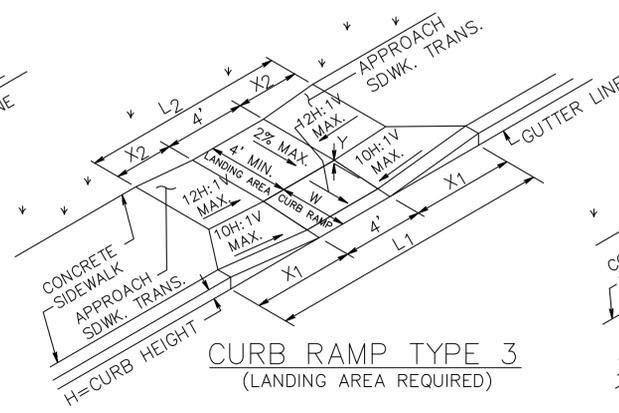
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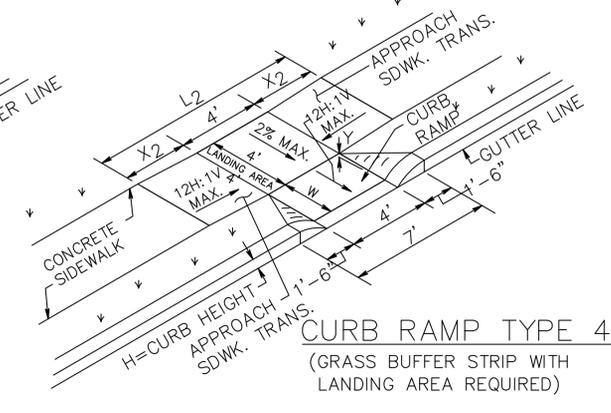
CURB RAMP TYPE 1



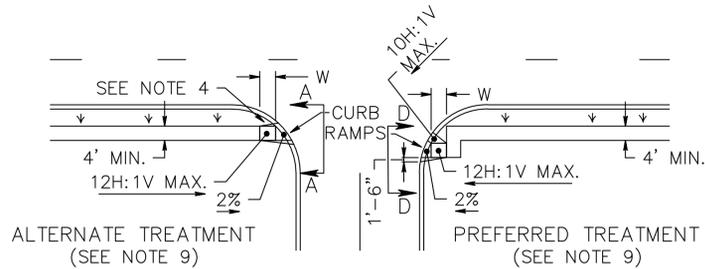
CURB RAMP TYPE 2
(GRASS BUFFER STRIP)



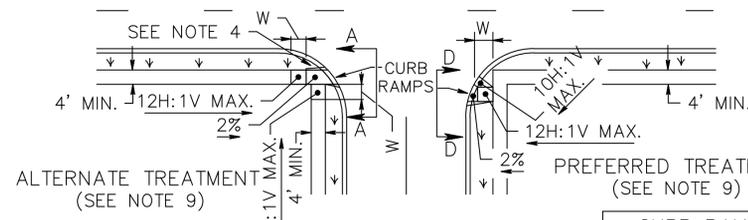
CURB RAMP TYPE 3
(LANDING AREA REQUIRED)



CURB RAMP TYPE 4
(GRASS BUFFER STRIP WITH LANDING AREA REQUIRED)

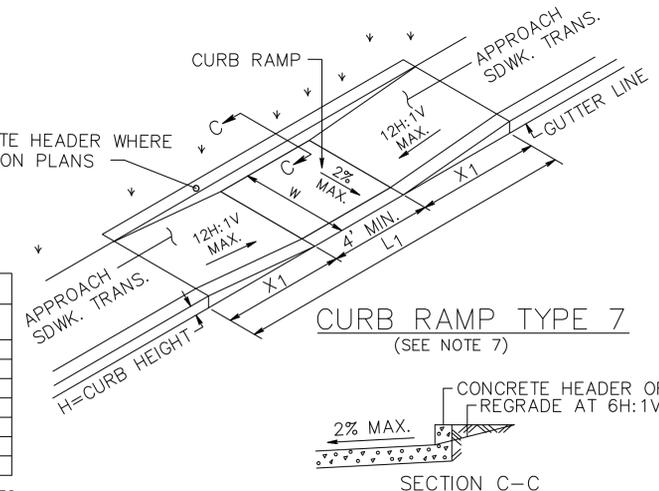


CURB RAMP TYPE 5
(CROSSING PARALLEL TO HIGHWAY ONLY)

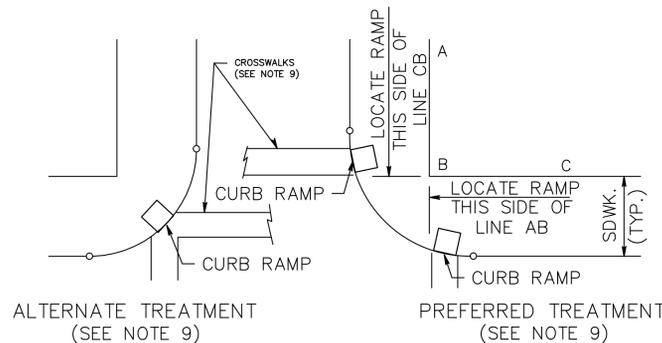


CURB RAMP TYPE 6
(CROSSING PARALLEL TO HIGHWAY ONLY)

CURB RAMP TYPE 7			
W FEET	H INCHES	X1 FEET	L1 FEET
4 MIN.	3	3	11
6 MAX.	4	4	13
	5	5	15
	6	6	17
	7	7	19
	8	8	21
	9	9	23



CURB RAMP TYPE 7
(SEE NOTE 7)



ALTERNATE TREATMENT
(SEE NOTE 9)

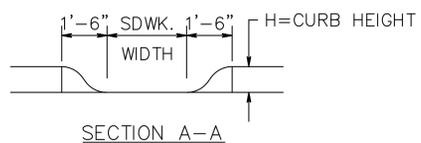
PREFERRED TREATMENT
(SEE NOTE 9)

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

CURB RAMP TYPE 1			
H INCHES	X1 FEET	L1 FEET	W FEET
3	2.5	9.0	3
4	3.3	10.6	4
5	4.2	12.4	5
6	5.0	14.0	6
7	5.8	15.6	7
8	6.7	17.4	8
9	7.5	19.0	9

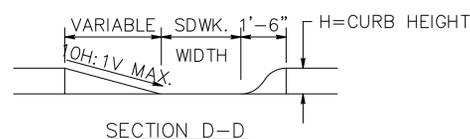
CURB RAMP TYPE 2, 5 OR 6	
H INCHES	W FEET
3	3
4	4
5	5
6	6
7	7
8	8
9	9

- GENERAL NOTES:
- LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
 - 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 DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
 - CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET 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 TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
 - 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.
 - 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.
 - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 - PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
 - 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.

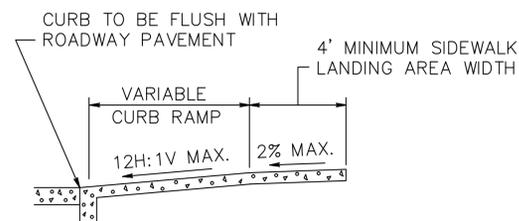


SECTION A-A

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



SECTION D-D

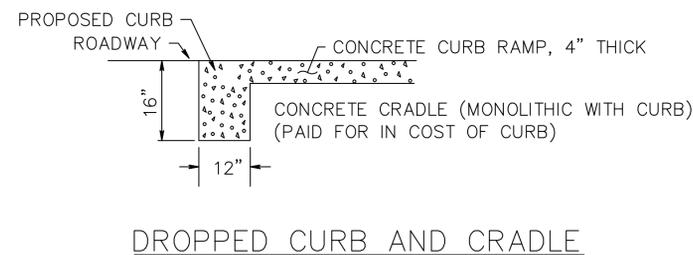


SECTION THROUGH CURB RAMPS 1 THROUGH 6

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
3.0	3	*	*	*	*	*
	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
3.5	3	*	*	*	*	*
	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
4.0	3	*	*	*	*	*
	4	4.2	12.4	4.0	1	6
	5	5.0	14.0	4.0	2	8
	6	5.8	15.6	4.0	3	10
	7	6.7	17.4	4.0	4	12
	8	7.5	19.0	4.0	5	14

CURB RAMP TYPE 4				
W FEET	H INCHES	Y INCHES	X2 FEET	L2 FEET
2.5	3	2.5	0.5	5
	4	2.5	1.5	7
	5	2.5	2.5	9
	6	2.5	3.5	11
	7	2.5	4.5	13
	8	2.5	5.5	15
3.0	3	**	**	**
	4	3.0	1	6
	5	3.0	2	8
	6	3.0	3	10
	7	3.0	4	12
	8	3.0	5	14
3.5	3	**	**	**
	4	3.5	0.5	5
	5	3.5	1.5	7
	6	3.5	2.5	9
	7	3.5	3.5	11
	8	3.5	4.5	13
4.0	3	**	**	**
	4	**	**	**
	5	4.0	1	6
	6	4.0	2	8
	7	4.0	3	10
	8	4.0	4	12

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



DROPPED CURB AND CRADLE

NO.	DATE	REVISIONS DESCRIPTION

DOWNTOWN ROAD AND BEAUTIFICATION PROJECT
ROAD MILLING/PAVING AND IMPROVEMENTS
DETAIL SHEET 3

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

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



DATE:
4/1/2015

DRAWN
BY: RM

SCALE
AS NOTED