

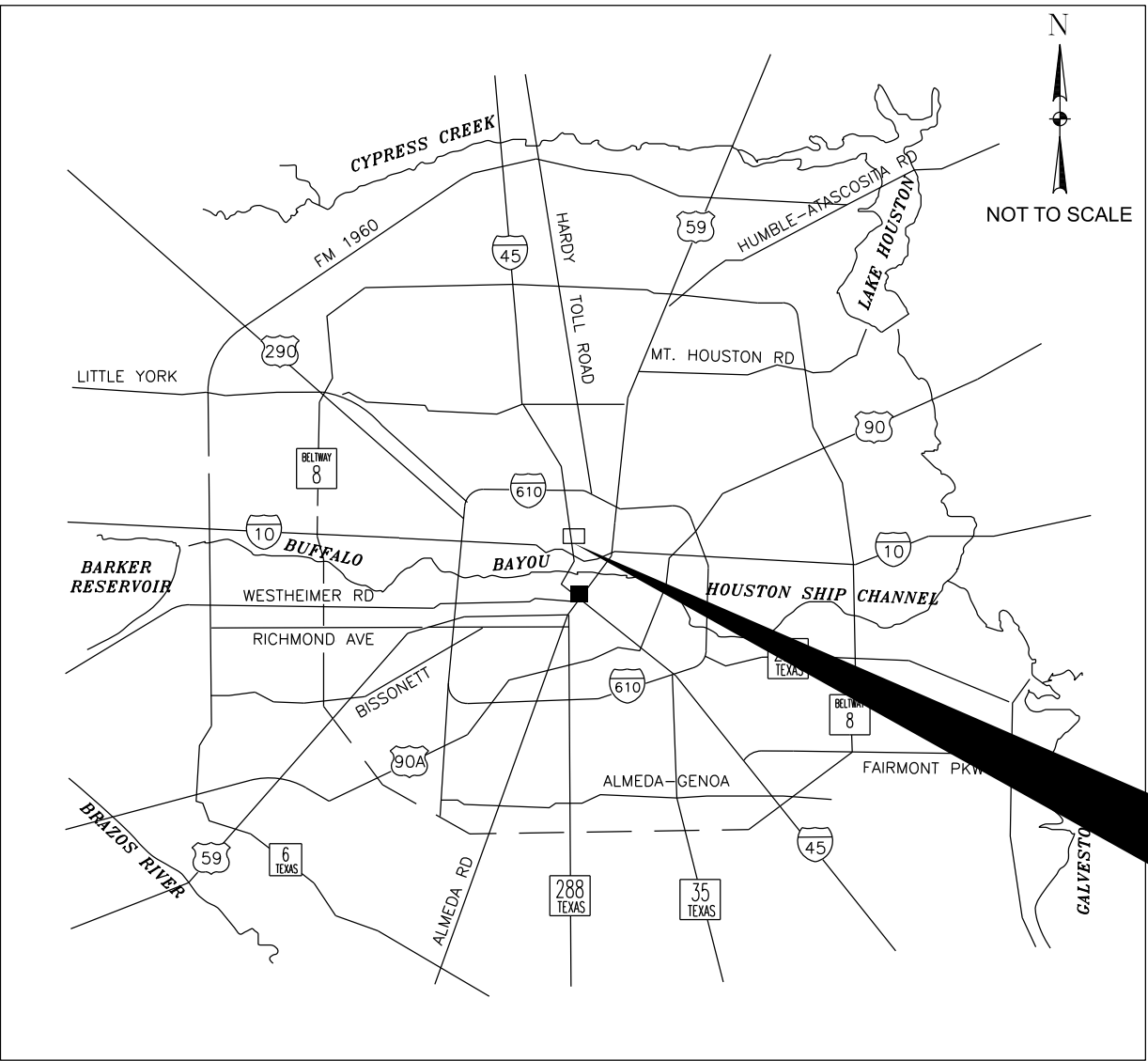
CITY OF HOUSTON

HOUSTON PUBLIC WORKS CAPITAL PROJECTS

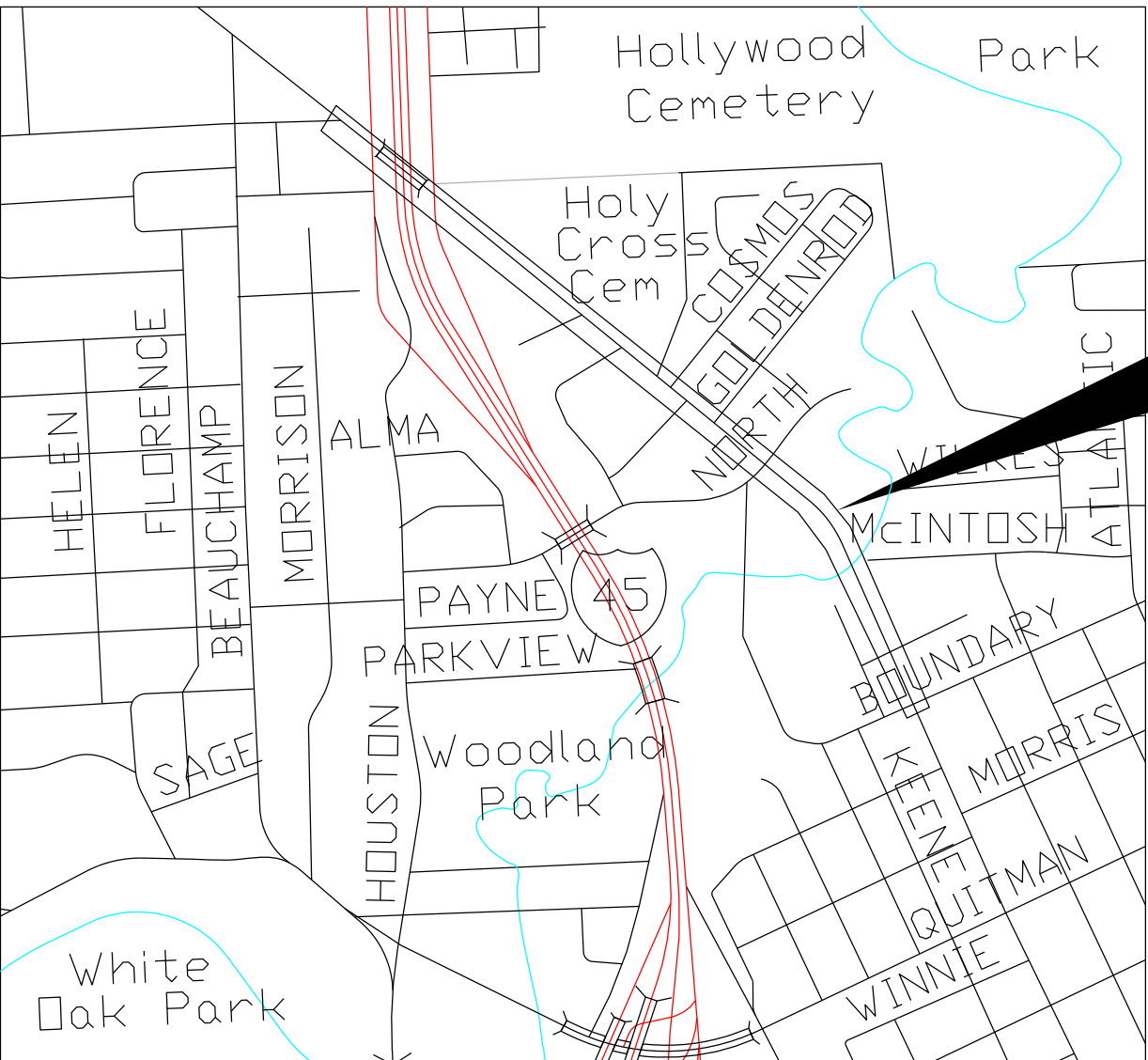
N MAIN STEET, BIKE LANE
FROM BOUNDARY ST TO PECORE ST
WBS NO. N-320610-0128-3
(WO #14)

INDEX OF SHEETS:

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LOCATION MAP



VICINITY MAP
KEY MAP NO 493 C
GIMS MAP NO 5458 A & C

PROJECT
LOCATION

PROJECT
LOCATION



MAYOR
SYLVESTER TURNER

CONTROLLER
CHRIS BROWN

DISTRICT COUNCIL MEMBERS

AMY PEEK
DISTRICT A

JERRY DAVIS
DISTRICT B

ABBIE KAMIN
DISTRICT C

CAROLYN EVANS-
SHABAZZ
DISTRICT D

DAVE MARTIN
DISTRICT E

TIFFANY THOMAS
DISTRICT F

GREG TRAVIS
DISTRICT G

KARLA CISNEROS
DISTRICT H

ROBERT CALLEGOS
DISTRICT I

EDWARD POLLARD
DISTRICT J

MARTHA CASTEX-TATUM
DISTRICT K

COUNCIL MEMBERS AT-LARGE

MIKE KNOX
POSITION 1

DAVID W. ROBINSON
POSITION 2

MICHAEL KUBOSH
POSITION 3

LETITIA PLUMMER
POSITION 4

SALLIE ALCORN
POSITION 5

AGS

ENGINEERING & CONSTRUCTION
Ally General Solutions, LLC
dba AGS Engineering & Construction
7070 W. 43rd St., Ste 203
Houston, TX 77092
Ph: (281) 888-7682
Texas Registration No. F-13574

SURVEYED BY:
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FB NO. NA

PRELIMINARY
SUBMITTED FOR
90% PRELIM REVIEW BY
ROLANDO CASTANEDA
P.E. TX 98276
ALLY GENERAL SOLUTIONS,LLC
OCTOBER 15, 2020
NOT FOR CONSTRUCTION,
BIDDING OR PERMITTING

FOR CITY OF HOUSTON USE ONLY

PROJECT MANAGER DATE

TRANSPORTATION & DATE
DRAINAGE OPERATIONS

CITY ENGINEER DATE

DIRECTOR OF DATE
HOUSTON PUBLIC WORKS

SHEET NO 1 OF 28 SHEETS

NOTICE:
CONTRACTORS SHALL NOTIFY THE CITY
OF HOUSTON 48 HOURS BEFORE
STARTING CONSTRUCTION

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL EQUIPMENT / MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF HOUSTON STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, THE PROJECT SPECIFIC SPECIFICATIONS AND THE PLANS,
2. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE PROVISIONS AND REQUIREMENTS. NOTE WOULD BE PULL BOXES INSTALLED IN A MEDIAN, ANY PULL BOXES INSTALLED ALONG AN UNCURBED ROADWAY SHALL BE INSTALLED ADJACENT TO, BUT NOT WITHIN, THE SHOULDER. TS OF THE CITY ELECTRICAL CODE.
3. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. THE CONTRACTOR SHALL ARRANGE THE INSTALLATION OF SIGNALS, POLES AND CONDUIT SO AS TO PERMIT THE CONTINUOUS MOVEMENT OF TRAFFIC IN ALL DIRECTIONS AT ALL TIMES. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE LANE OF A ROADWAY AT ONE TIME WITHOUT PRIOR APPROVAL OF THE CITY.
5. THE CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE WORK AREA ALL LOOSE MATERIAL RESULTING FROM CONTRACT OPERATIONS EACH DAY PRIOR TO WORK BEING SUSPENDED FOR THAT DAY.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE TO ARRANGE FOR METER AND ELECTRICAL SERVICE CONNECTION FROM THE POWER COMPANY.
7. ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL MEET ADA REQUIREMENTS. THE SIGNS THAT SHALL BE USED ARE IDENTIFIED IN THE TMUTCD AS R10-3E.
8. OVERHEAD STREET NAME SIGNS SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE SIGN IS NO LESS THAN 17 FEET ABOVE THE ROADWAY PAVEMENT OR NO LESS THAN 16 FEET ABOVE THE FINISHED GRADE BEYOND THE SHOULDER.
9. THE LOCATION OF EACH NEW POLE FOUNDATION, PULL BOX, CONTROLLER CABINET FOUNDATION, UPS CABINET FOUNDATION AND ELECTRIC SERVICE PEDESTAL FOUNDATION SHALL BE MARKED IN THE FIELD AS SHOWN ON THE PLANS. THE EXACT LOCATION SHALL BE APPROVED BY THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE PRIOR TO BEGINNING INSTALLATION OF THE FOUNDATION.
10. THE TOP OF THE POLE FOUNDATION SHALL BE LEVEL WITH THE FINISHED GRADE. IF THE SLOPE OR SHOULDER DROPS OFF FROM FINISHED GRADE, THE CONTRACTOR SHALL GRADE AROUND POLE FOUNDATION. THE TOP OF THE FOUNDATION SHALL EXTEND NO MORE THAN 4 INCHES ABOVE SURROUNDING GRADE.
11. ALL CONCRETE USED FOR TRAFFIC SIGNAL POLE AND CABINET FOUNDATIONS SHALL BE CLASS "A" (REFER TO THE CITY OF HOUSTON SPECIFICATION FOR CONCRETE).
12. MAST ARM AND STRAIN POLES SHALL NOT BE INSTALLED ON THE FOUNDATIONS LESS THAN SEVEN DAYS AFTER THE PLACEMENT OF THE CONCRETE FOR THE FOUNDATION.
13. ANCHOR BOLTS FOR SIGNAL POLES SHALL BE SET SO THAT TWO ARE IN COMPRESSION AND TWO ARE IN TENSION. PRIOR TO THE INSTALLATION OF THE NUT, THE THREADS OF THE ANCHOR BOLT SHALL BE COATED WITH PIPE JOINT COMPOUND.
14. ALL UNDERGROUND CONSTRUCTION (CONDUIT, FOUNDATIONS AND PULL BOXES) FOR THE INTERSECTION SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF POLES, SIGNALS AND CABINETS. THE CONTRACTOR SHALL NOT PROCEED TO ABOVE GROUND WORK UNTIL THE ENGINEER AND/OR APPROVED CITY OF HOUSTON REPRESENTATIVE HAD CONFIRMED THAT THE MATERIALS FOR A COMPLETE INSTALLATION ARE AVAILABLE.
15. UNDERGROUND CONDUIT FOR SIGNAL CABLE SHALL BE SCHEDULE 80 ELECTRICAL PVC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED, ALL COUPLINGS AND CONNECTIONS SHALL BE TIGHT AND WATERPROOF.
16. ALL ABOVE GROUND CONDUIT FOR SIGNAL CABLE AND INTERCONNECT MEDIA SHALL BE HOT DIPPED GALVANIZED STEEL RIGID METAL CONDUIT OF THE DIAMETERS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED, ALL COUPLINGS AND CONNECTIONS SHALL BE TIGHT AND WATERPROOF.
17. ONLY NEW CONDUIT AND CABLE SHALL BE INSTALLED.
18. CONDUIT INSTALLED UNDER EXISTING PAVED DRIVEWAYS, ROADWAYS OR SIDEWALKS, WHICH ARE NOT SCHEDULED TO BE RECONSTRUCTED AS PART OF THIS PROJECT, SHALL BE INSTALLED BY MEANS OF BORING. THE CONTRACTOR SHALL NOT CUT OPEN ANY STREET OR DRIVEWAY FOR CONDUIT INSTALLATION WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE.
19. CONDUIT NOT PLACED UNDER PAVED DRIVEWAYS, ROADWAY PAVEMENT OR SIDEWALK MAY BE PLACED BY CUTTING A TRENCH, INSTALLING THE CONDUIT AND BACKFILLING. ANY TRENCHING FOR CONDUIT WIDER THAN THREE (3) INCHES SHALL BE RESODDED.
20. PULL BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE CURB ACCESS RAMPS. IN ADDITION, ANY PULL BOXES INSTALLED BEHIND CURBS SHALL BE INSTALLED BETWEEN THE CURB AND THE PROPOSED / FUTURE SIDEWALK OR BEYOND THE PROPOSED / FUTURE SIDEWALK, AN EXCEPTION TO THIS

21. A 5/8 IN. X 10 FT. GROUND ROD SHALL BE INSTALLED IN THE TYPE B PULL BOX LOCATED ON EACH CORNER. TWO GROUND ROD CLAMPS SHALL BE FURNISHED FOR GROUNDING THE GROUND WIRE.
22. ALL CONDUITS SHALL BE CLEANED BY COMPRESSED AIR AND A PROPERLY SIZED CONDUIT PISTON OR MANDREL SHALL BE PULLED THROUGH THE CONDUIT PRIOR TO CABLE INSTALLATION.
23. WHEN PULLING TRAFFIC SIGNAL SYSTEM CABLES THROUGH CONDUIT, THE CABLES SHALL BE LUBRICATED WITH A LUBRICANT NORMALLY USED FOR THIS PURPOSE.
24. ALL VEHICLE ROADWAY DETECTION LOOP CABLES SHALL BE #14 AWG (MSA 51-5-1985) CABLE. LEAD-IN CABLES SHALL BE #16 AWG (MSA 50-2-1984) CABLE. NO SPLICES SHALL BE ALLOWED IN THE ROADWAY DETECTION LOOP CABLE EXCEPT AT THE PULL BOX ADJACENT TO LOOP. THE DETECTOR LEAD-IN CABLE SHALL NOT BE SPLICED.
25. DETECTION LOOP SAW CUTS SHALL BE FLUSHED WITH WATER UNDER PRESSURE AND THEN DRIED WITH AIR UNDER PRESSURE.
26. THERE SHALL BE NO SPLICING IN CONDUCTORS EXCEPT FOR THE NECESSARY SPLICE BETWEEN ROADWAY LOOP WIRE AND DETECTOR LEAD-IN CABLE IN THE PULL BOX ADJACENT TO THE DETECTOR. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE IN COMPLIANCE WITH THE CITY OF HOUSTON STANDARD DRAWINGS FOR TRAFFIC SIGNAL CONSTRUCTION. THESE SPLICES SHALL BE MADE BY THE CONTRACTOR, DO NOT GROUND THE CABLE SHIELD AT THE PULL BOX.
27. TWO #10 AWG-XHHW CONDUCTORS SHALL BE INSTALLED FROM EACH LUMINAIRE TO THE CONTROLLER CABINET, LEAVING THREE FEET OF SLACK FOR EACH CONDUCTOR (MEASURED FROM THE TOP OF THE PULL BOX) IN EACH PULL BOX. ROUTE FOUR CONDUCTORS TO THE LUMINAIRE WITH THE PHOTOELECTRIC CELL. AN IN-LINE FUSE SHALL BE INSTALLED FOR EACH LUMINAIRE IN THE ASSOCIATED PULL BOX.
28. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR CABLE SHALL BE OPTICOM DETECTOR CABLE MODEL NO. 138. THE CABLE SHALL NOT BE SPLICED.
29. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE LED.
30. THE CONTRACTOR SHALL BAG ALL NEWLY INSTALLED VEHICULAR AND/OR PEDESTRIAN TRAFFIC SIGNAL HEADS WITH BURLAP OR OTHER APPROVED MATERIAL UNTIL THE FINAL INSPECTION AND ACCEPTANCE BY THE CITY TRAFFIC ENGINEER AND/OR APPROVED CITY OF HOUSTON REPRESENTATIVE. THE BURLAP OR OTHER APPROVED MATERIAL/DEVICE SHALL COMPLETELY COVER THE TRAFFIC SIGNAL HEAD AND SHALL OBSCURE THE VIEW OF THE TRAFFIC SIGNAL INDICATIONS SO THAT THEY CANNOT BE SEEN UNTIL THE TRAFFIC SIGNAL IS PLACED IN OPERATION. DURING CONSTRUCTION, THE TRAFFIC SIGNAL WILL BE DE-ENERGIZED WHILE NOT IN USE FOR TESTING.
31. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
32. ALL STRIPING AND PAVEMENT MARKINGS ARE TO BE DONE UNDER THIS CONTRACT AND SHALL BE IN PLACE PRIOR TO THE ACTIVATION OF THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL STOP LINES PRIOR TO THE INSTALLATION OF LOOP DETECTORS.
33. ALL CONSTRUCTION SIGNING AND CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY ABRASION TO ANY CONDUCTOR INSULATION WHICH OCCURS WHILE PULLING CABLE FOR THE TRAFFIC SIGNAL SYSTEM WILL BE CAUSE FOR THE IMMEDIATE REJECTION OF THE CABLE. IF THIS OCCURS, THE CONTRACTOR SHALL REMOVE AND REPLACE THE ENTIRE CABLE RUN AT THEIR EXPENSE.
34. A MINIMUM OF THREE (3) FEET OF EACH WIRE AND CABLE MEASURED FROM THE TOP OF THE PULL BOX SHALL BE LEFT IN EACH PULL BOX AND AT EACH POLE BASE.
35. ALL CABLES SHALL BE STRIPPED, FORMED AND TERMINATED IN A NEAT AND UNIFORM MANNER WHETHER IN THE SIGNAL HEAD OR CONTROLLER CABINET. ALL CABLE SHALL BE BROUGHT INTO THE TERMINAL HOUSING OF SIGNALS AND/OR CONTROLLER CABINETS AND A SUFFICIENT LENGTH OF CABLE SHALL BE LEFT SO THAT ALL TERMINAL CONNECTIONS MAY BE MADE WITHOUT THE NECESSITY OF SPLICING THE CABLE.
36. THE HIGH VOLTAGE CABLES SHOULD BE SEPARATED FROM THE LOW VOLTAGE CABLES AS MUCH AS POSSIBLE.
37. NO LOOP DETECTOR SHALL BE CUT IN A PARALLEL EXPANSION JOINT. LOOPS CUT ACROSS EXPANSION JOINTS SHALL HAVE A SLACK IN THE CABLE FOR EXPANSION.

RESPONSIBILITIES:

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS AS SPECIFIED IN THE PLANS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATIONS WITH REINFORCEMENT (WHERE SPECIFIED), TRAFFIC SIGNAL CONTROLLER CABINET(S) WITH CONTROLLER(S) AND ALL AUXILIARY EQUIPMENT, CONTROLLER CABINET CONCRETE FOUNDATION(S), CONCRETE PULL BOXES, ELECTRICAL CONDUIT, GROUND RODS AND CONNECTORS, BARE BOND WIRE AND ALL OTHER CONDUCTORS, POLES, MAST ARMS, TRAFFIC SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN PUSH BUTTON STATIONS WITH SIGNS, LUMINAIRES, PHOTOCELLS, ELECTRIC SERVICE PEDESTAL(S) AND CONCRETE FOUNDATION(S), VEHICLE DETECTION LOOPS, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION(S), EXCEPT AS MODIFIED IN THE PLANS.
2. THE CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET(S) WITH THE CONTROLLER(S) AND AUXILIARY EQUIPMENT SPECIFIED IN THE PLANS TO THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER, 2200 PATTERSON STREET FOR TESTING. A MINIMUM OF THREE WEEKS PRIOR TO THE INSTALLATION(S) AT THE INTERSECTION(S), CONTACT THE SIGNAL SHOP ELECTRICAL SUPERVISOR (713-803-3033) AT LEAST 2 WORKING DAYS PRIOR TO THE DELIVERY OF THE CONTROLLER CABINET(S) TO THE CITY OF HOUSTON. THE CONTRACTOR SHALL PICK UP AND TRANSPORT THE CONTROLLER CABINET(S) FROM THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER TO THE INTERSECTION(S) AFTER CITY OF HOUSTON STAFF HAS TESTED THE EQUIPMENT AND APPROVED IT FOR INSTALLATION.
3. THE CONTRACTOR SHALL INSTALL EACH TRAFFIC CONTROLLER CABINET ON ITS FOUNDATION AND ROUTE ALL OF THE CONDUCTORS INTO THE CONTROLLER CABINET. CONDUCTORS SHALL BE TERMINATED IN THE CABINET BY THE CONTRACTOR UNDER THE OBSERVATION OF AN APPROVED CITY OF HOUSTON REPRESENTATIVE.
4. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND SALVAGE ALL EXISTING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT THAT IS NOT TO REMAIN OR BE RELOCATED. ALL OF THE EQUIPMENT SHALL BE RETURNED TO THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER, 2200 PATTERSON STREET. THE EQUIPMENT SHALL BE UNLOADED BY THE CONTRACTOR. CONTACT THE TRAFFIC SIGNAL SHOP ELECTRICAL SUPERVISOR (713-803-3033) AT LEAST 2 WORKING DAYS PRIOR TO RETURNING THE EQUIPMENT.
5. THE CONTRACTOR SHALL SALVAGE AND REPLANT ANY LANDSCAPING VEGETATION THAT MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM AN APPROVED CITY OF HOUSTON REPRESENTATIVE BEFORE ANY PLANTS ARE MOVED.
6. THE CONTRACTOR SHALL REPAIR/RESTORE ANY LANDSCAPE IRRIGATION COMPONENTS DAMAGED BY CONSTRUCTION ACTIVITY TO THEIR ORIGINAL CONDITION.
7. THE LOCATION OF PUBLIC AND PRIVATE UTILITIES IS SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO UTILITIES THAT ARE THE RESULT OF HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND FACILITIES.

PRIVATE UTILITY NOTES

- AT&T TEXAS/SWB T FACILITIES
1. THE LOCATIONS OF AT&T TEXAS/SWB T FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-3377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWB T FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWB T FACILITIES.
4. WHEN AT&T TEXAS/SWB T FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWB T UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 687-4552 OR E-MAIL HIM AT RL7259@ATT.COM. IF CABLE LOCATE REQUEST(S) ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWB T FACILITIES.

CAUTION: UNDERGROUND GAS FACILITIES
THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-344-3377 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5465 OR (713) 945-8007 (7:00 A.M. TO 4:00 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 699-3552 OR (713) 207-4200. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES
OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE. BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN, IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-4348 OR (713) 207-5765.

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SURVEYED BY: AGS FB NO. NA	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST GENERAL NOTE	
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N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 2 OF 28	

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Item	Control		Unit	Unit
No	No.	Item Description	Measure	Quantity
1	1554	REMOVE EXISTING TIRAFFIC SIGN AND POST	EA	5
2	2762	BLAST CLEANING FOR REMOVAL OF EXISTING PAVEMENT MARKINGS (SYMBOL, WORD OR ARROW)	EA	4
3	2762	BLAST CLEANING FOR REMOVAL OF EXISTING PAVEMENT MARKINGS (ALL TYPES)	LF	11933
4	2767	THERMOPLASTIC PAVEMENT MARKINGS (WORD ONLY)(WHITE)	EA	3
5	2767	THERMOPLASTIC PAVEMENT MARKINGS (ARROW , ALL TYPES) (WHITE)	EA	13
6	2767	THERMOPLASTIC PAVEMENT MARKINGS (BIKE ARROW)(WHITE)	EA	42
7	2767	THERMOPLASTIC PAVEMENT MARKINGS (BIKE SYMBOL)(WHITE)	EA	42
8	2767	THERMOPLASTIC PAVEMENT MARKINGS (4-IN)(DASHED) (W)	LF	458.4
9	2767	THERMOPLASTIC PAVEMENT MARKINGS (6-IN) (W)	LF	5346.37
10	2767	THERMOPLASTIC PAVEMENT MARKINGS (12-IN) (W)	LF	1446.66
11	2767	THERMOPLASTIC PAVEMENT MARKINGS (24-IN) (W)	LF	708.4
12	2767	THERMOPLASTIC PAVEMENT MARKINGS (2-4IN) (Y)	LF	2986.5
13	2767	THERMOPLASTIC PAVEMENT MARKINGS (6-IN)(DASHED)(Y)	LF	248
14	2767	THERMOPLASTIC PAVEMENT MARKINGS CROSSWALK (2'X10')(W)	SF	1240
15	2767	THERMOPLASTIC PAVEMENT MARKINGS BIKE CW (2'X6')(GREEN)	SF	360
16	2767	THERMOPLASTIC PAVEMENT MARKINGS BIKE CW (2'X2')(GREEN)	SF	144
17	2767	THERMOPLASTIC PAVEMENT MARKINGS (6-IN) (GREEN)	LF	5226
18	2767	THERMOPLASTIC PAVEMENT MARKINGS (6-IN)(DASHED)(GREEN)	LF	2120
19	2767	THERMOPLASTIC PAVEMENT MARKINGS (12-IN) (GREEN)	LF	144
20	2767	THERMOPLASTIC PAVEMENT MARKINGS (6'X25) (GREEN)	SF	1050
21	1554	RELOCATION OF SIGNS AND INSTALLATION	EA	48



ENGINEERING & CONSTRUCTION

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ALLY GENERAL SOLUTIONS,LLC
OCTOBER 15, 2020

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

N MAIN ST
SAFETY IMPROVEMENTS

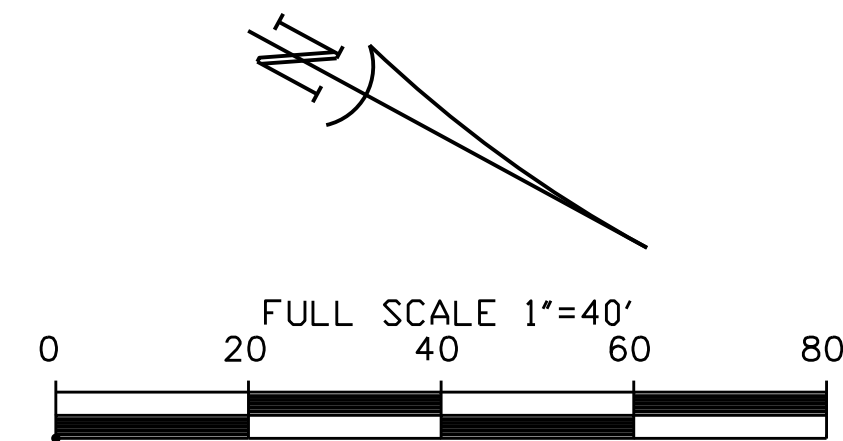
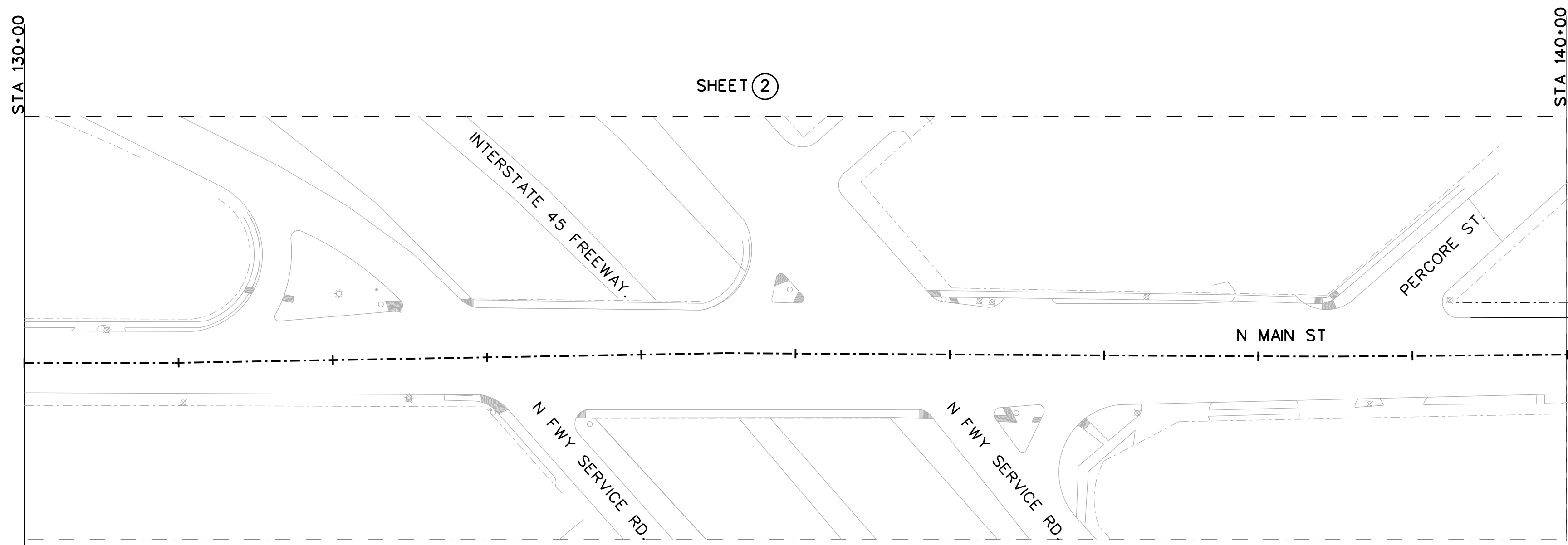
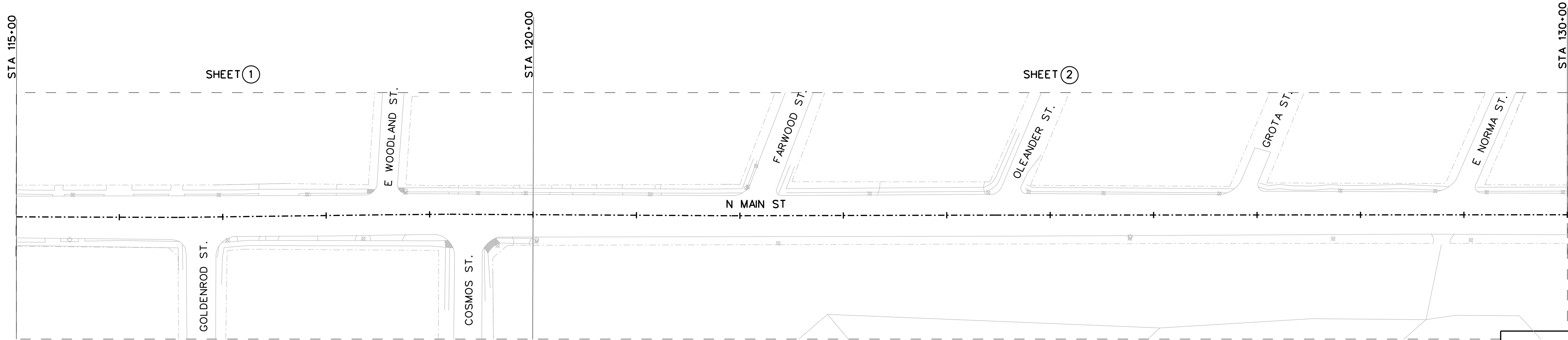
QUANTITY SUMMARY

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 3 OF 28	

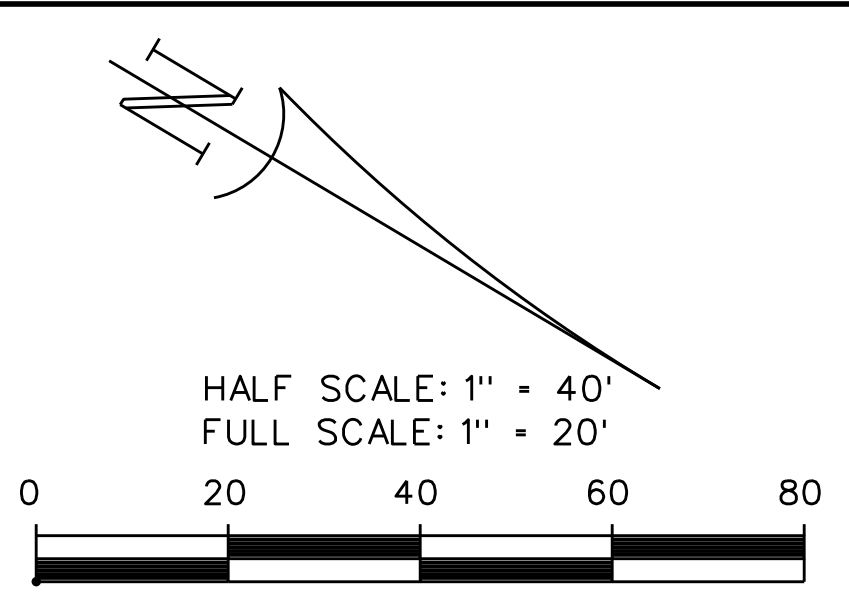
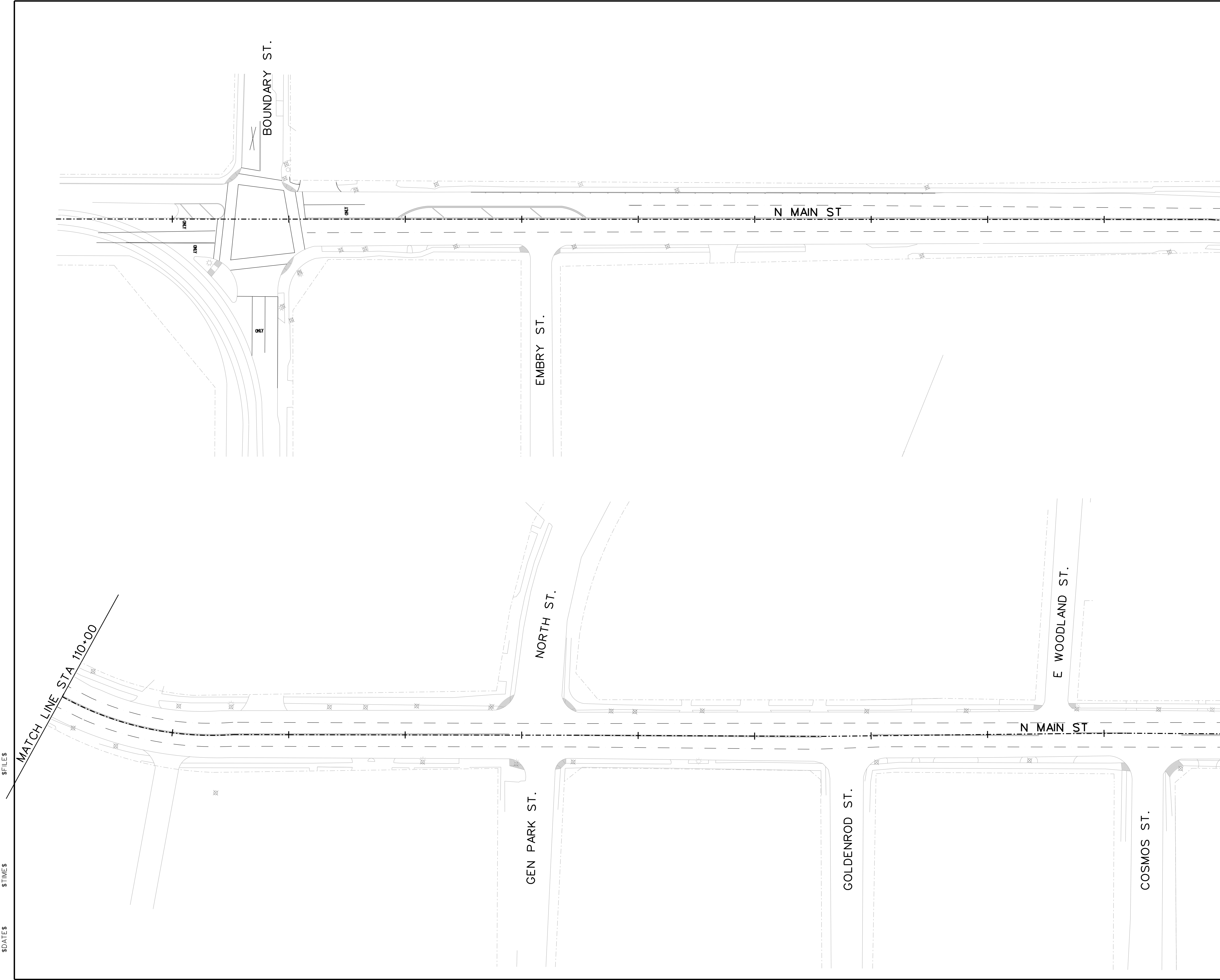
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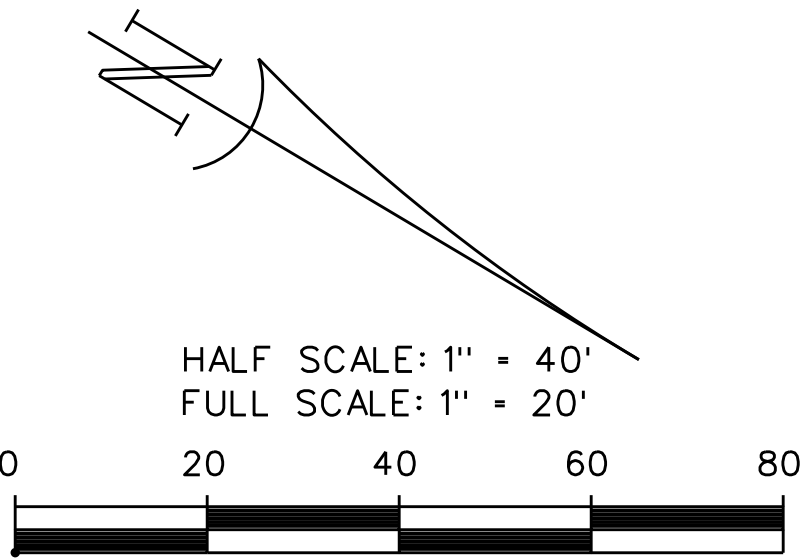
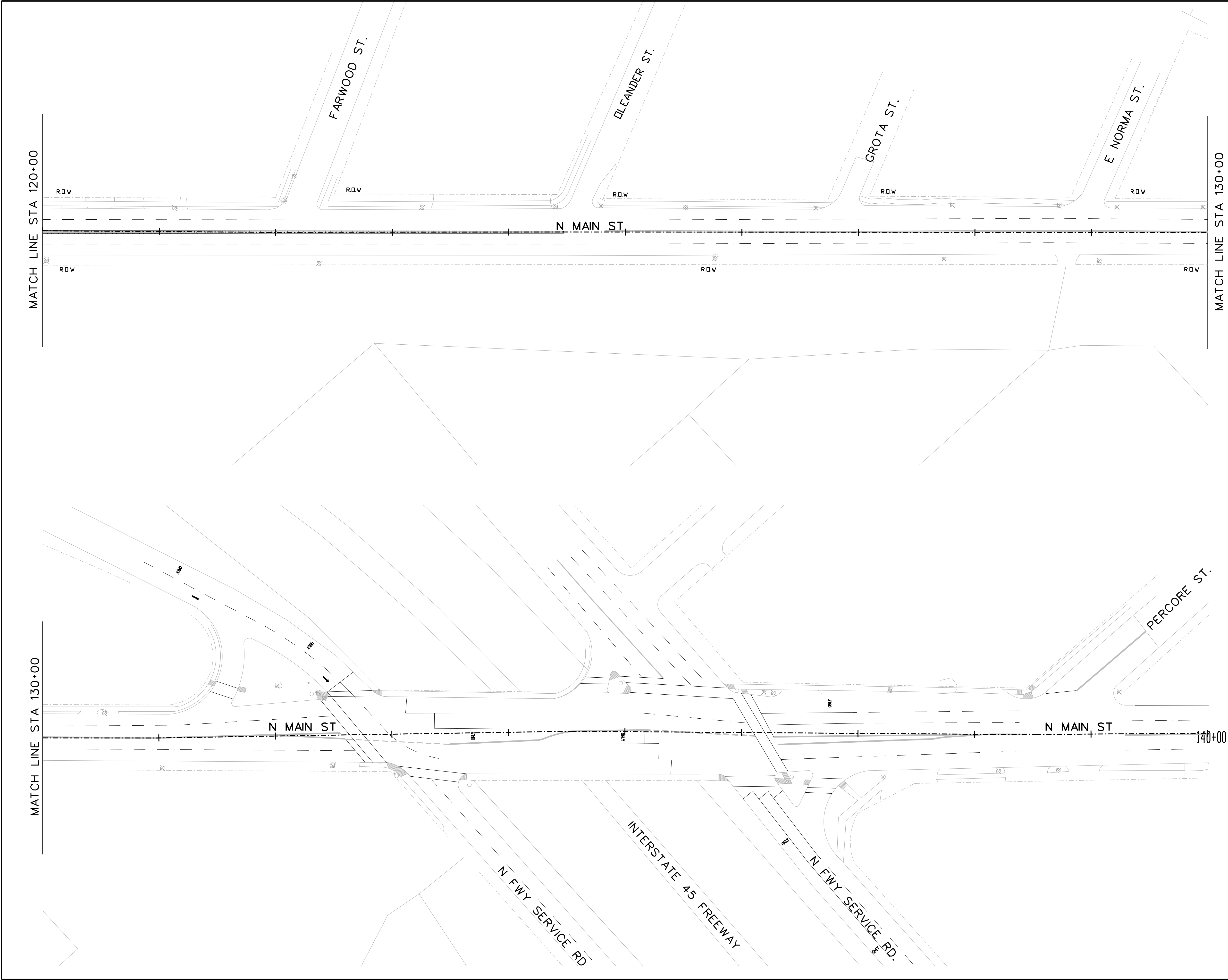
 AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
	SURVEYED BY: AGS FB NO. NA
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST SAFETY IMPROVEMENTS KEY MAP PLAN	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 4 OF 28	



 AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020	
SURVEYED BY: AGS FB NO. NA		NOT FOR CONSTRUCTION, BIDDING OR PERMITTING	
CITY OF HOUSTON HOUSTON PUBLIC WORKS			
N MAIN ST EXISTING CONDITION PLAN SHEET 1 OF 2			
WBS NUMBER N-320610-0128-3		FOR CITY OF HOUSTON USE ONLY	
DRAWING SCALE AS NOTED			
CITY OF HOUSTON PM PATRICIA K. CAMPBELL, P.E.			
SHEET NO. 5 OF 28			

\$DATE\$ \$TIME\$ \$FILE\$

\$DATE\$ \$TIME\$ \$FILE\$



AGS
 ENGINEERING & CONSTRUCTION
 Ally General Solutions, LLC
 dba AGS Engineering & Construction
 7070 W. 43rd St., Ste 203
 Houston, TX 77092
 Ph: (281) 888-7682
 Texas Registration No. F-13574

PRELIMINARY
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 ROLANDO CASTANEDA
 P.E. TX 98276
 ALLY GENERAL SOLUTIONS,LLC
 OCTOBER 15, 2020

SURVEYED BY: AGS
 FB NO. NA

NOT FOR CONSTRUCTION,
 BIDDING OR PERMITTING

CITY OF HOUSTON
 HOUSTON PUBLIC WORKS

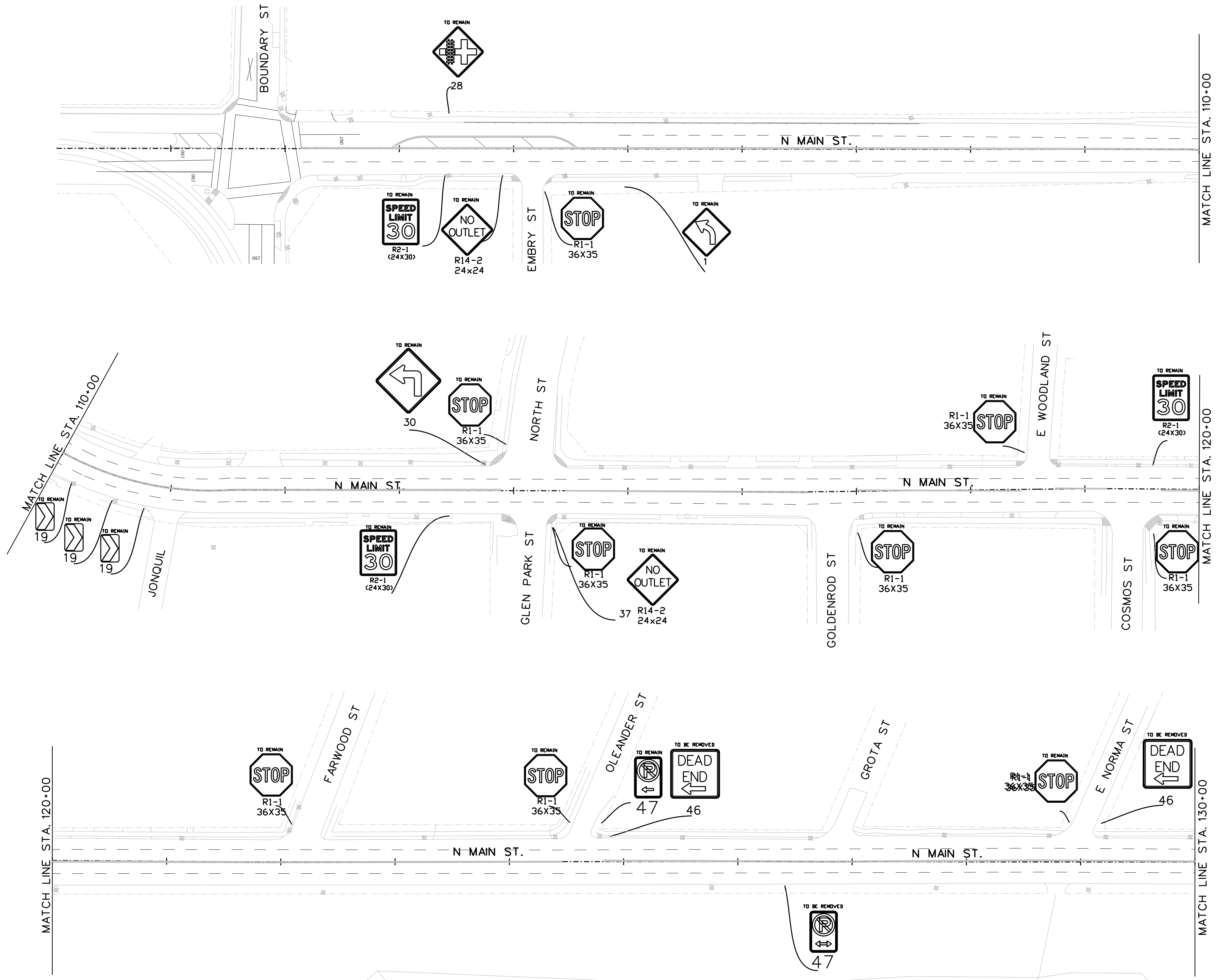
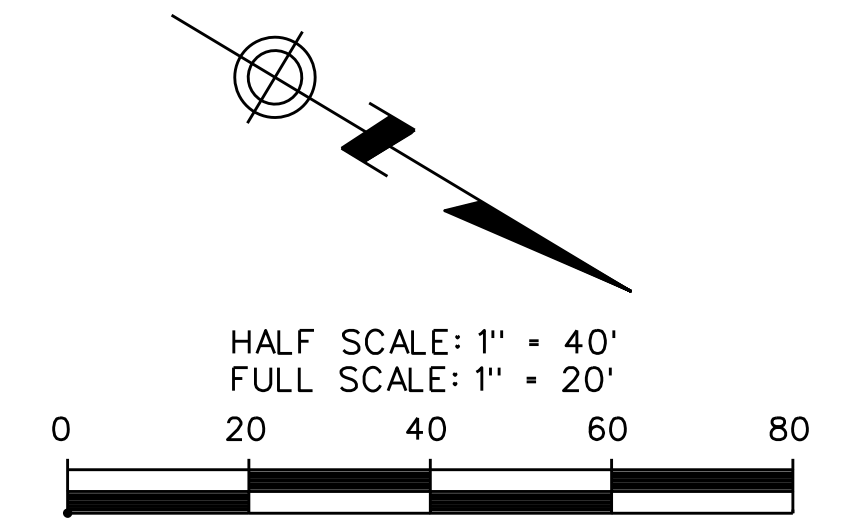
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 EXISTING CONDITION PLAN
 SHEET 2 OF 2

WBS NUMBER
N-320610-0128-3
DRAWING SCALE
AS NOTED
CITY OF HOUSTON PM
PATRICIA K. CAMPBELL, P.E.
SHEET NO. 6 OF 28

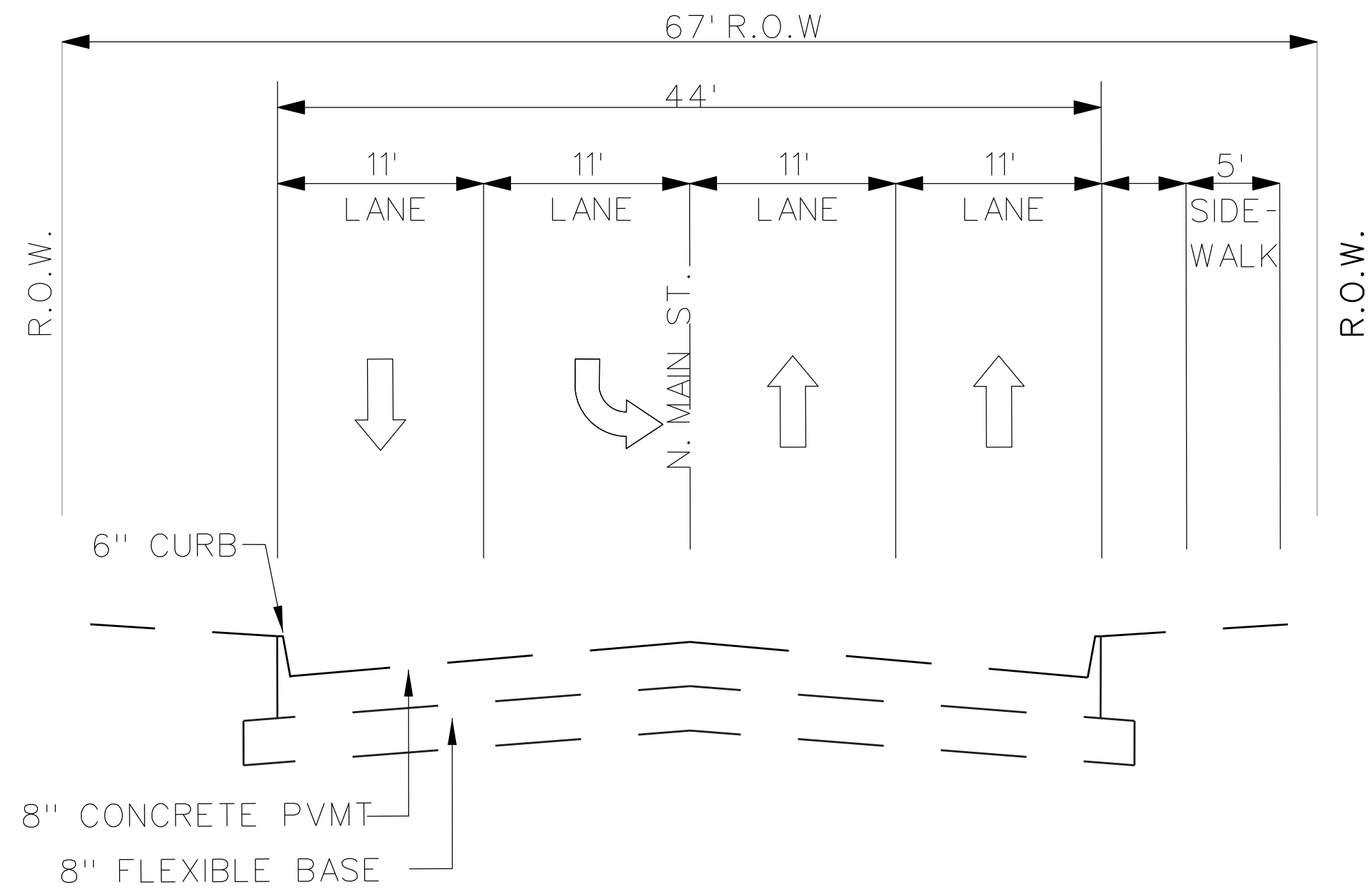
FOR CITY OF HOUSTON USE ONLY

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 \$DATES\$

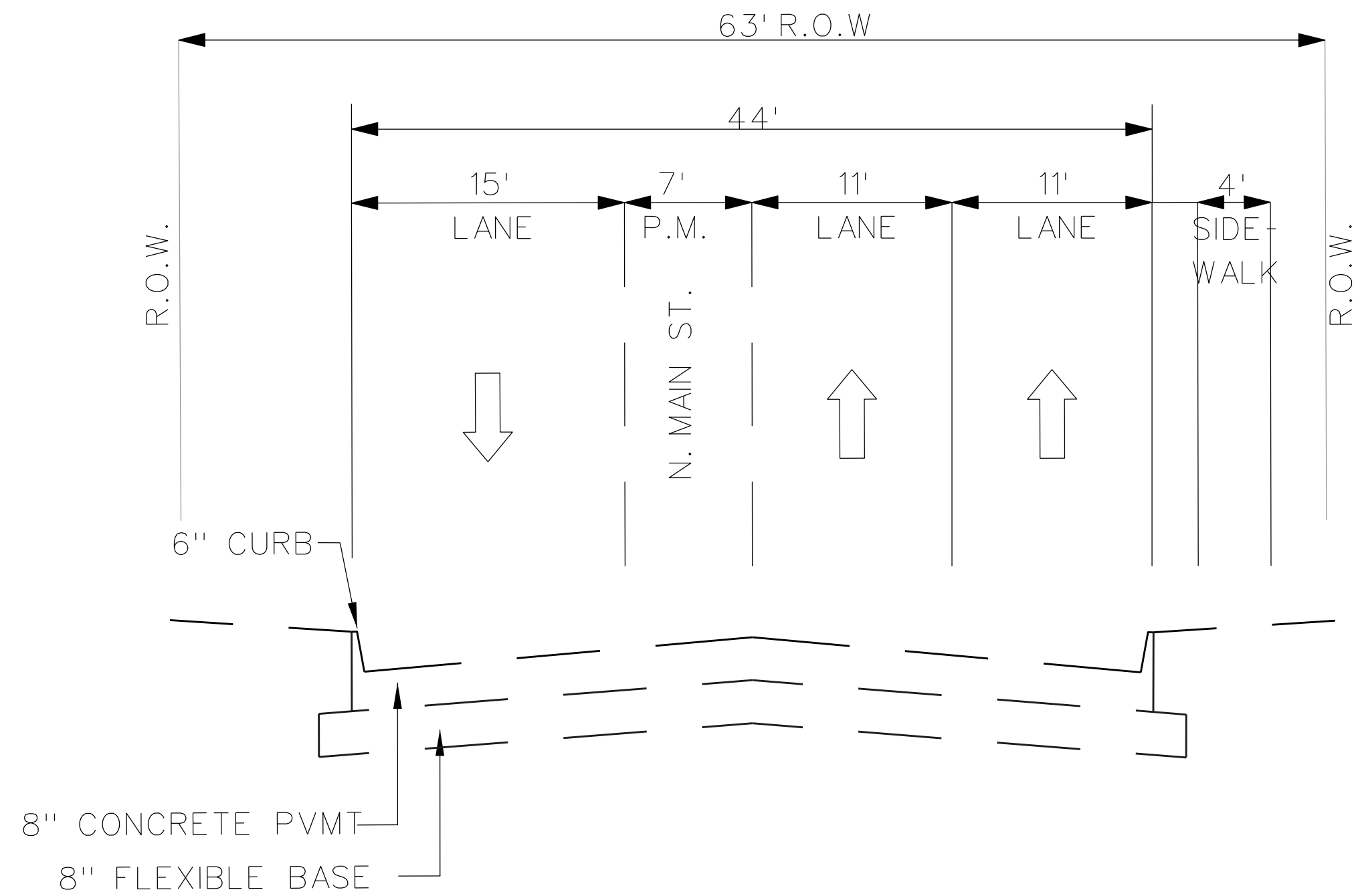
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 AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
	SURVEYED BY: AGS FB NO. NA
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST EXISTING SIGNS INVENTORY BEGIN PROJECT TO STA 130+00 SHEET 1 OF 2	
WBS NUMBER N-320610-0128-3	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE AS NOTED	
CITY OF HOUSTON PM PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 7 OF 28	



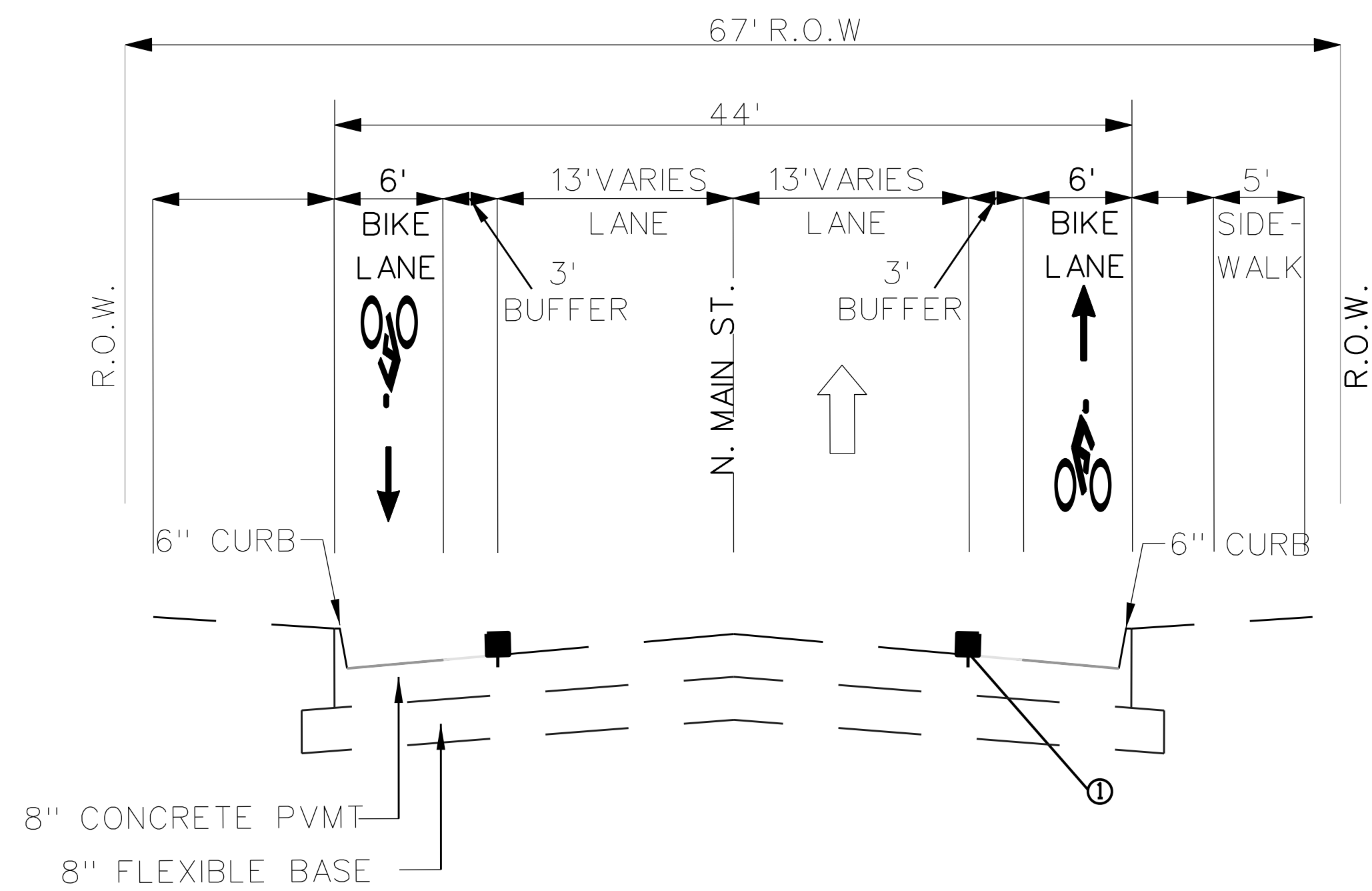
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STA 102+50.00



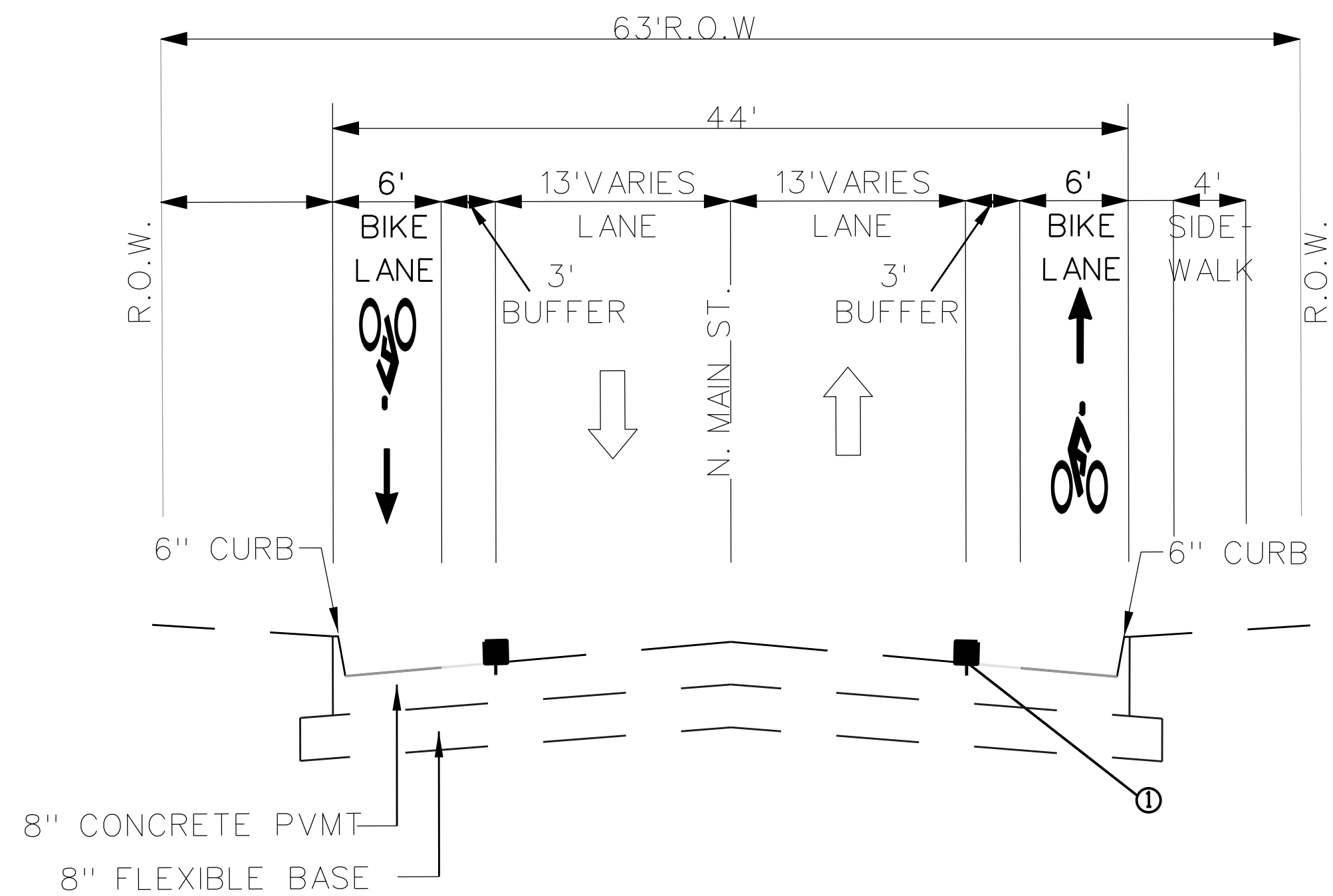
N.MAIN (3) EXISTING TYPICAL SECTION
STA 104+00.00

LEGEND:

1 -PROP ARMADILLO



N.MAIN (2) PROPOSED TYPICAL SECTION
STA 102+50.00



N.MAIN (3) PROPOSED TYPICAL SECTION
STA 104+00.00

NOTE:
CONTRACTOR WILL ENSURE
THAT NO ARMADILLOS ARE
PLACED IN DRIVEWAYS.



SURVEYED BY: AGS
FB NO. NA

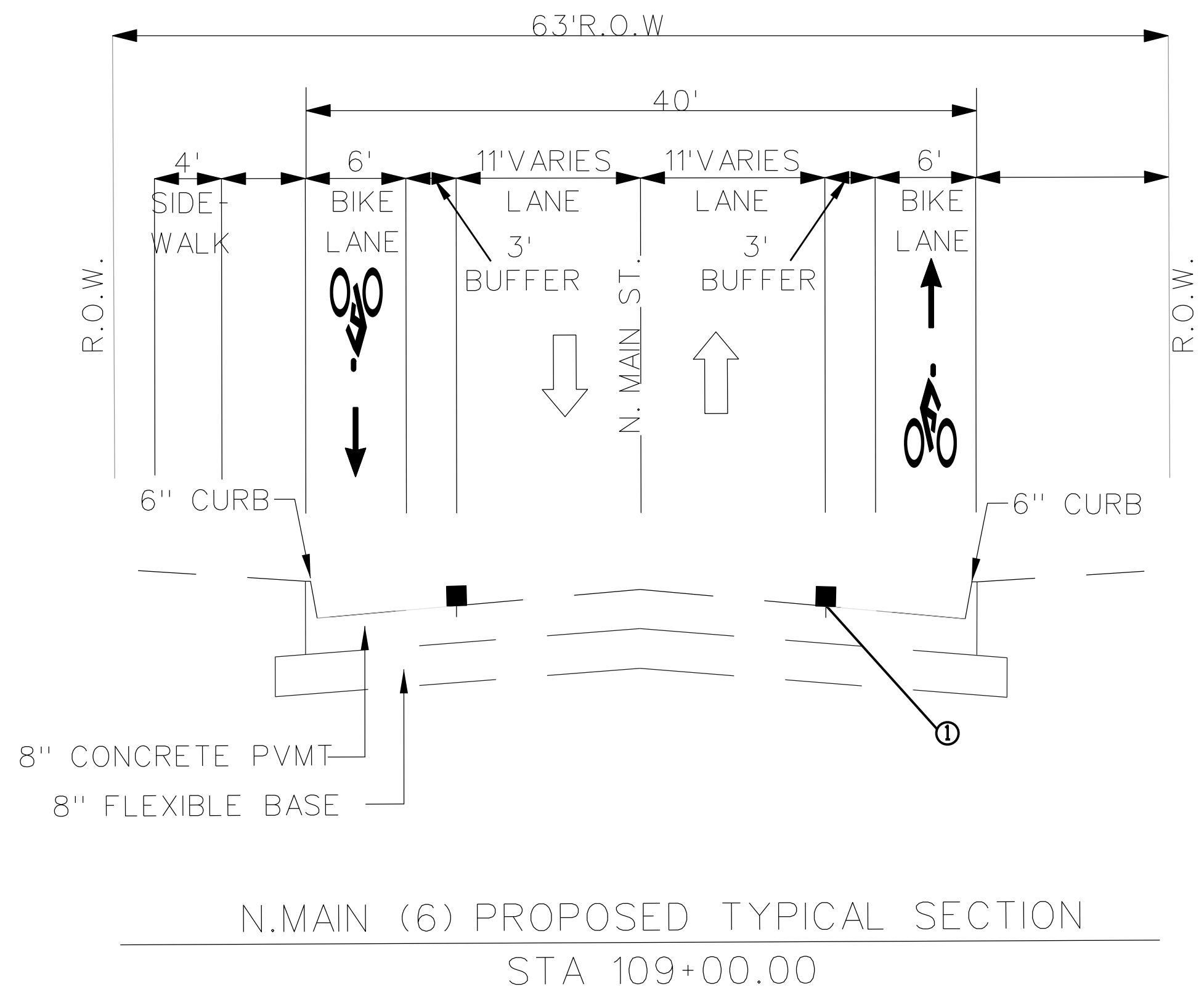
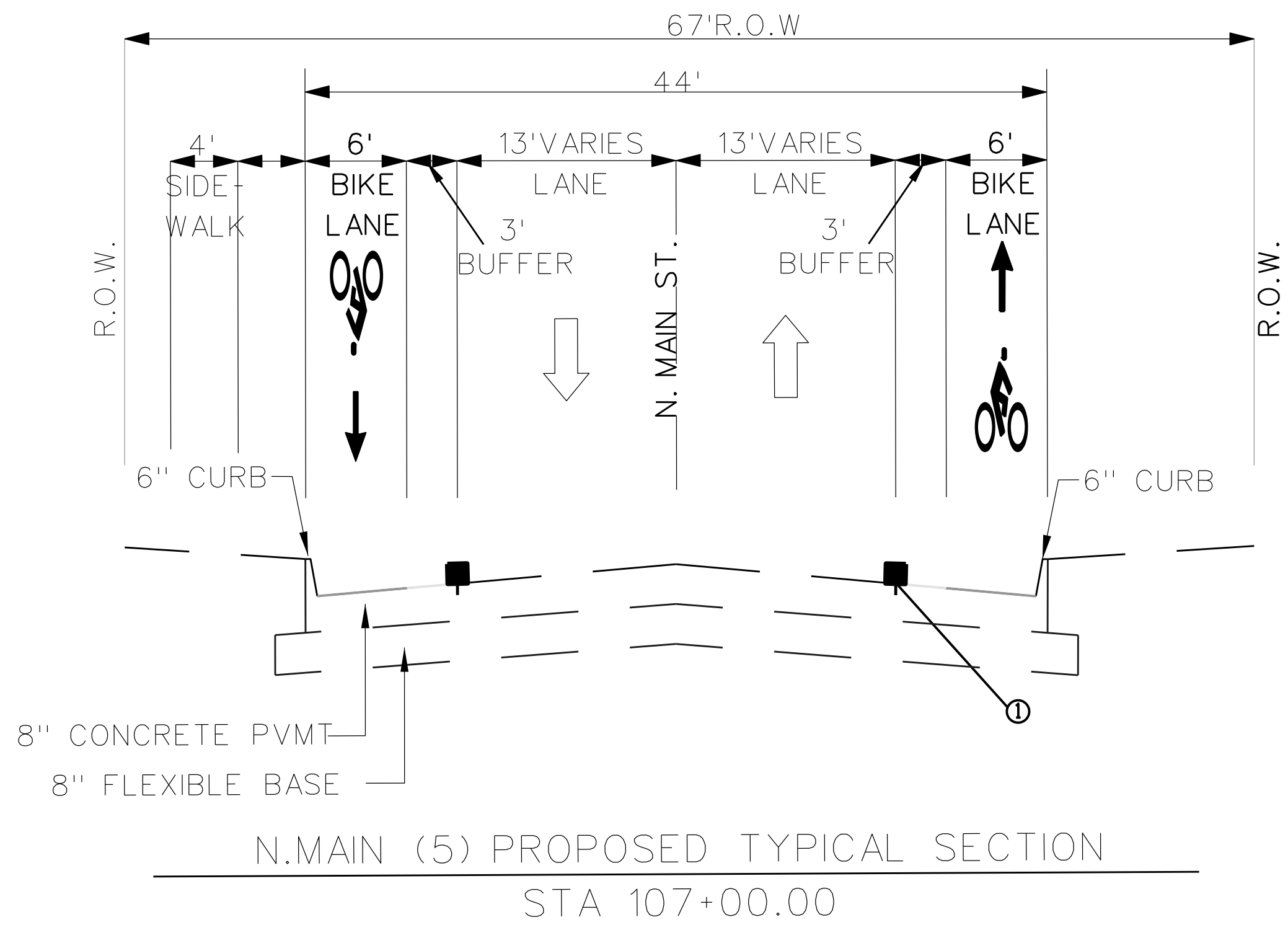
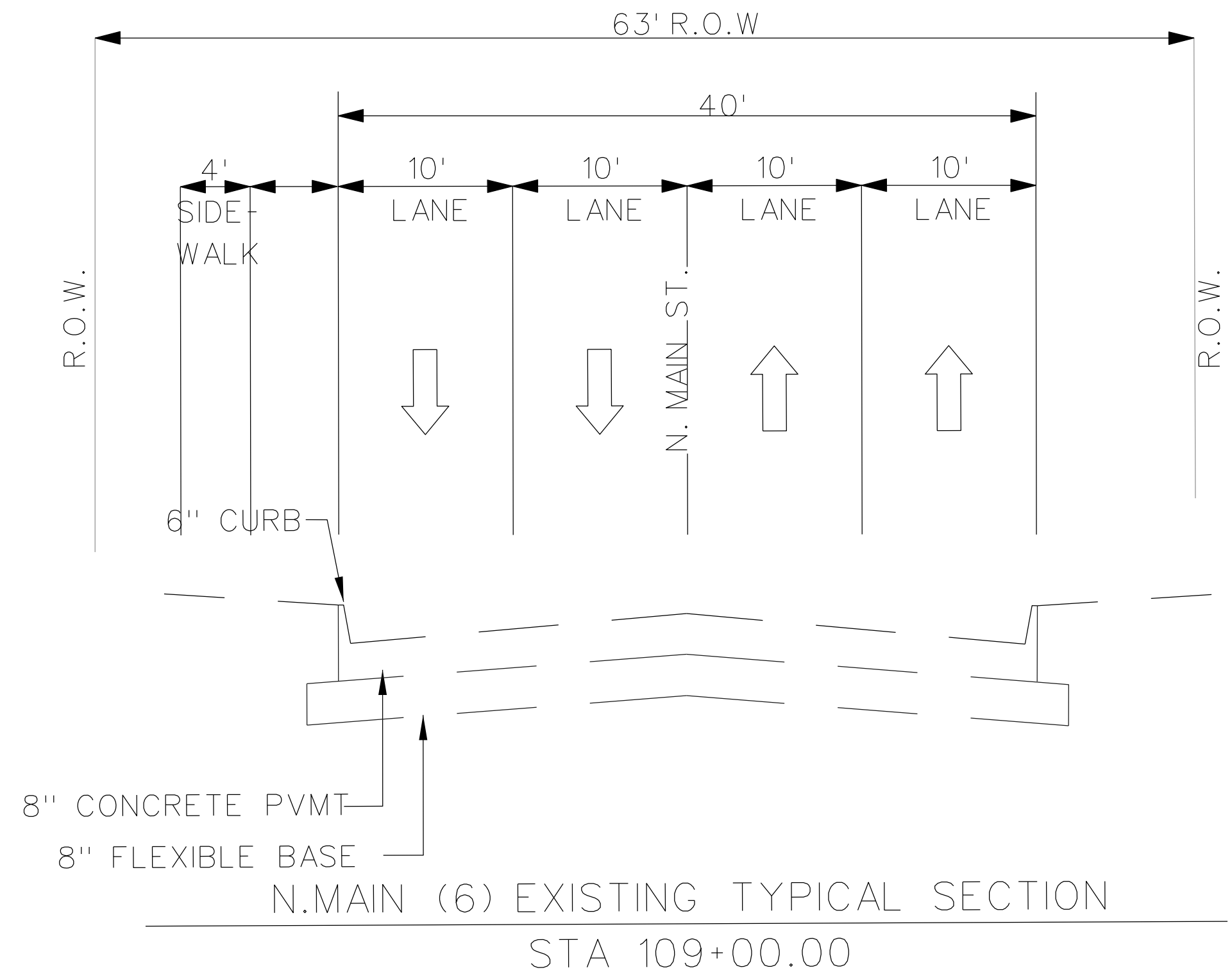
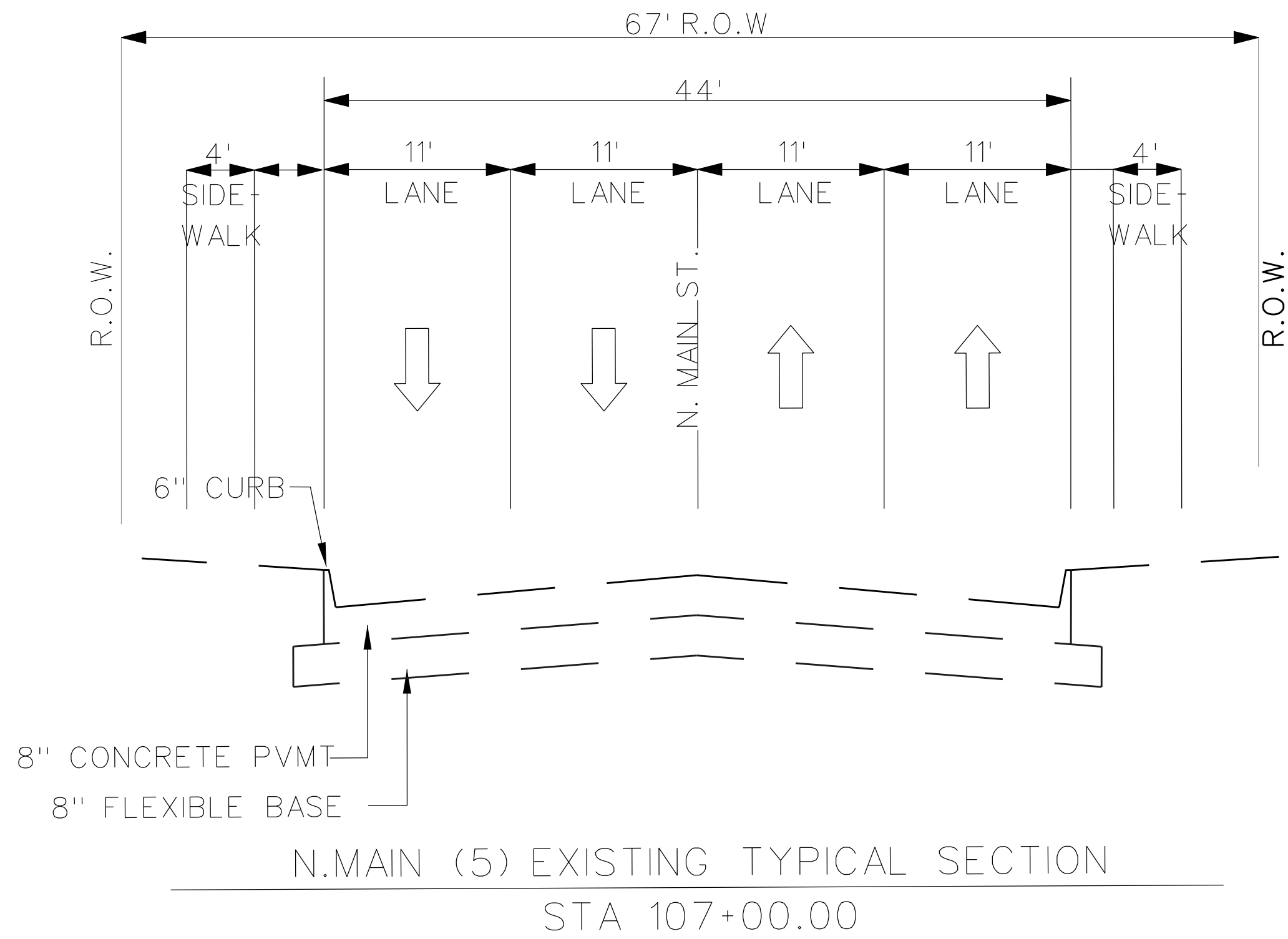
PRELIMINARY
SUBMITTED FOR
90% PRELIM REVIEW BY
ROLANDO CASTANEDA
P.E. TX 98276
ALLY GENERAL SOLUTIONS,LLC
OCTOBER 15, 2020

NOT FOR CONSTRUCTION,
BIDDING OR PERMITTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST
TYPICALS SECTION
BIKE LANES
EXISTING & PROPOSED TYPICAL SECTION
1 OF 9

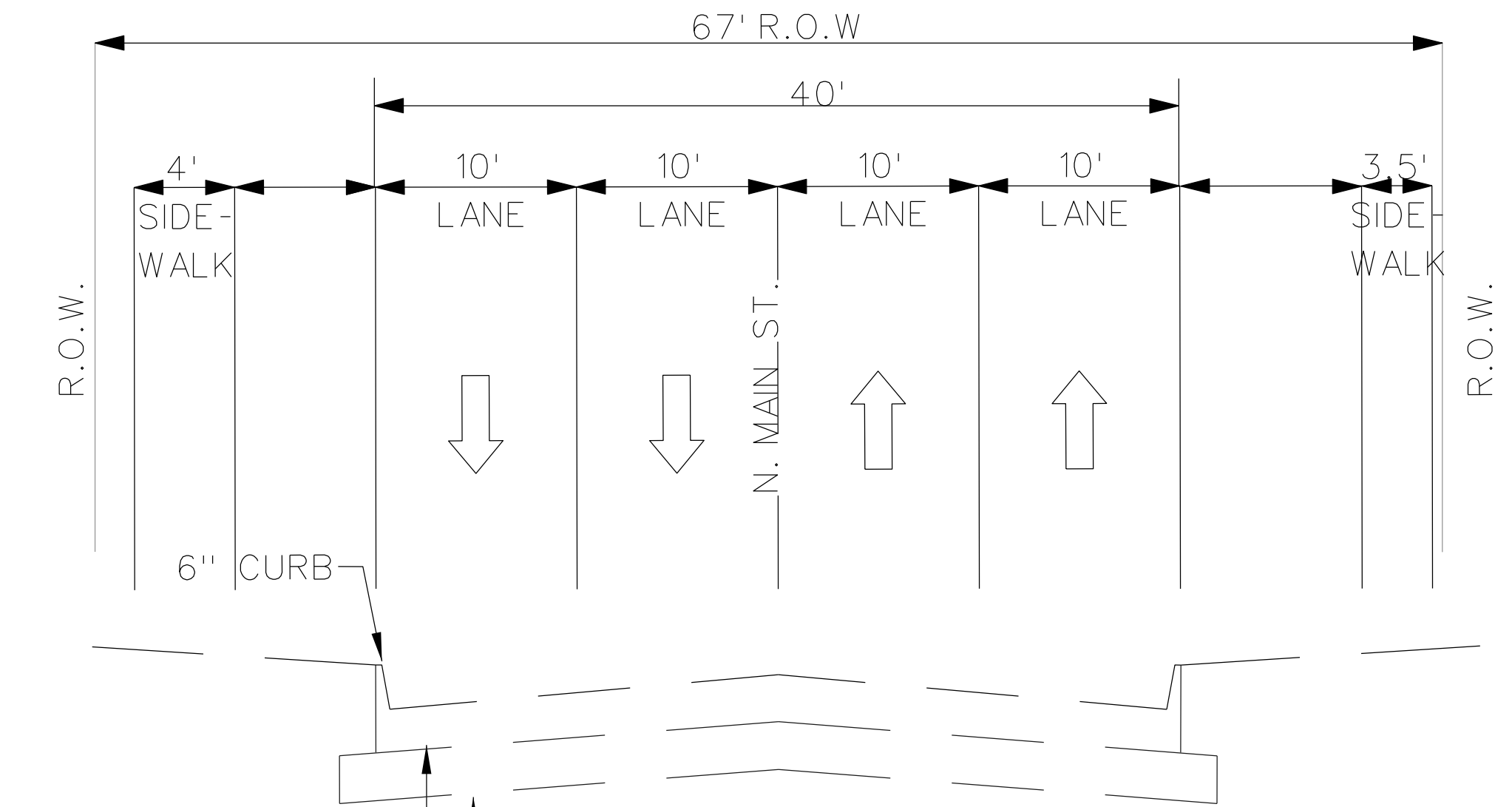
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DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 9 OF 28	



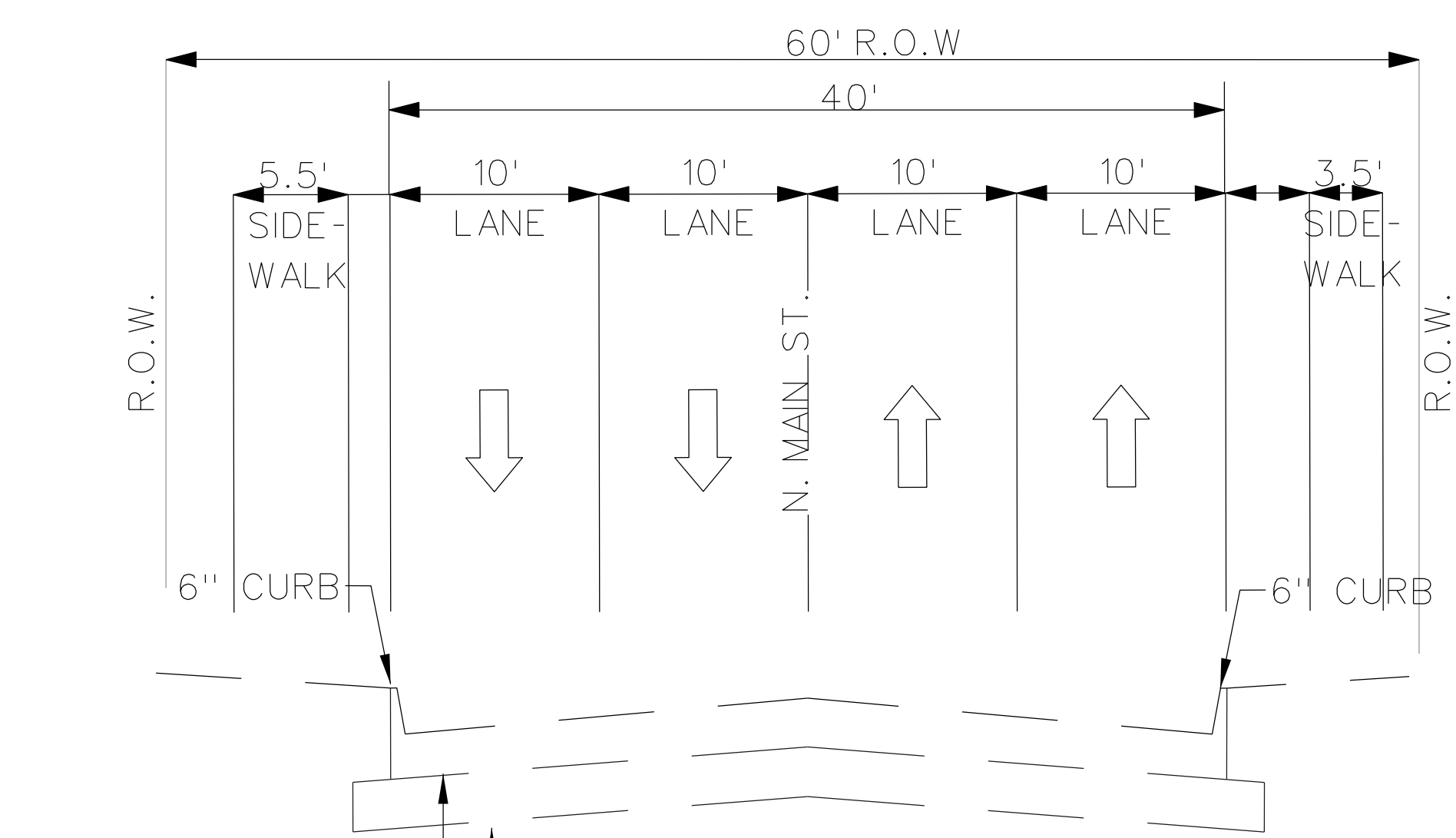
LEGEND:
1-PROP ARMADILLO

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AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
SURVEYED BY: FB NO.	AGS NA	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS		
N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 2 OF 9		
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY	
N-320610-0128-3		
DRAWING SCALE		
AS NOTED		
CITY OF HOUSTON PM		
PATRICIA K. CAMPBELL, P.E.		
SHEET NO. 10 OF 28		

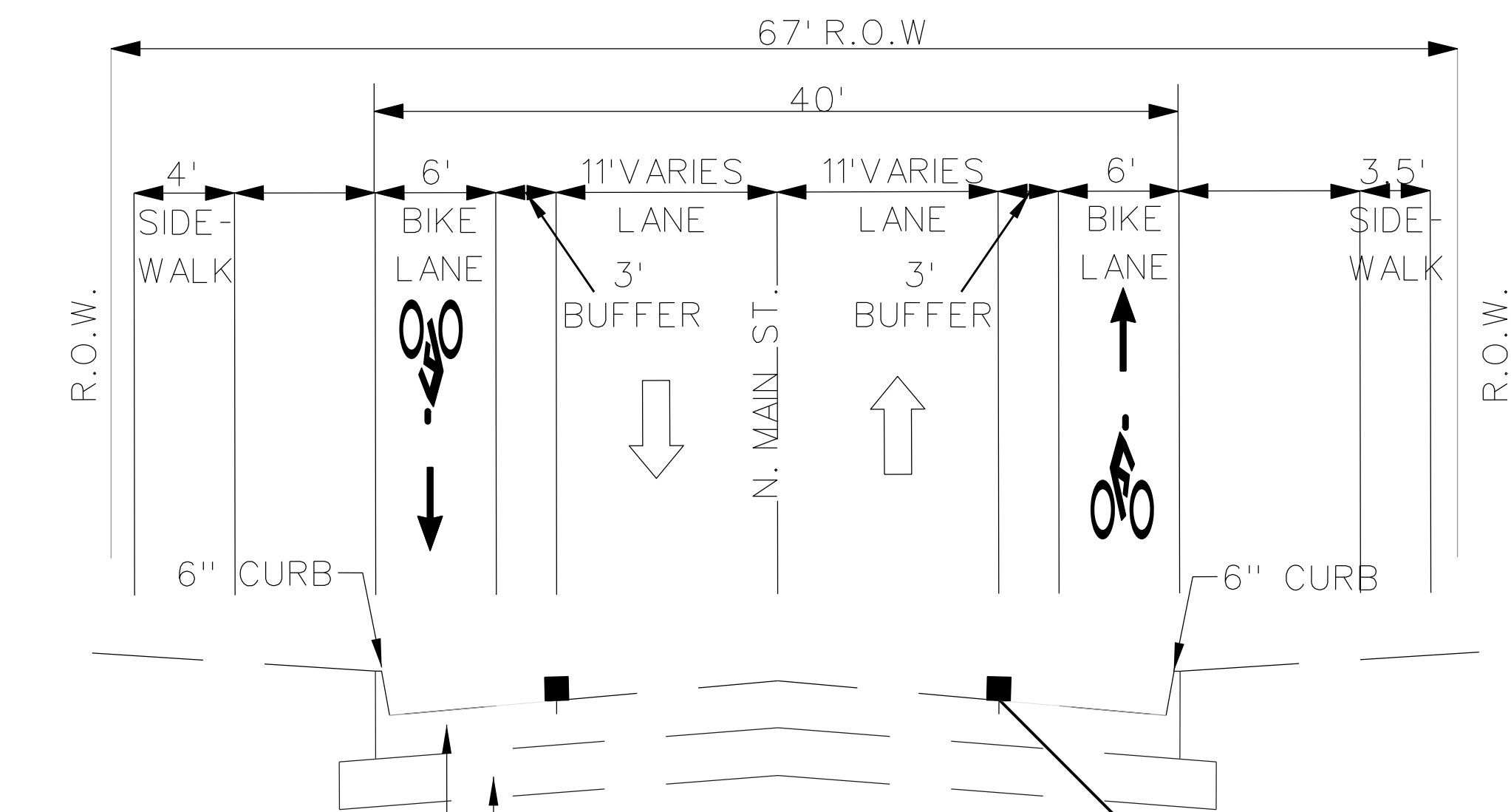


8" CONCRETE PVMT
8" FLEXIBLE BASE
N.MAIN (7) EXISTING TYPICAL SECTION
STA 111+00.00

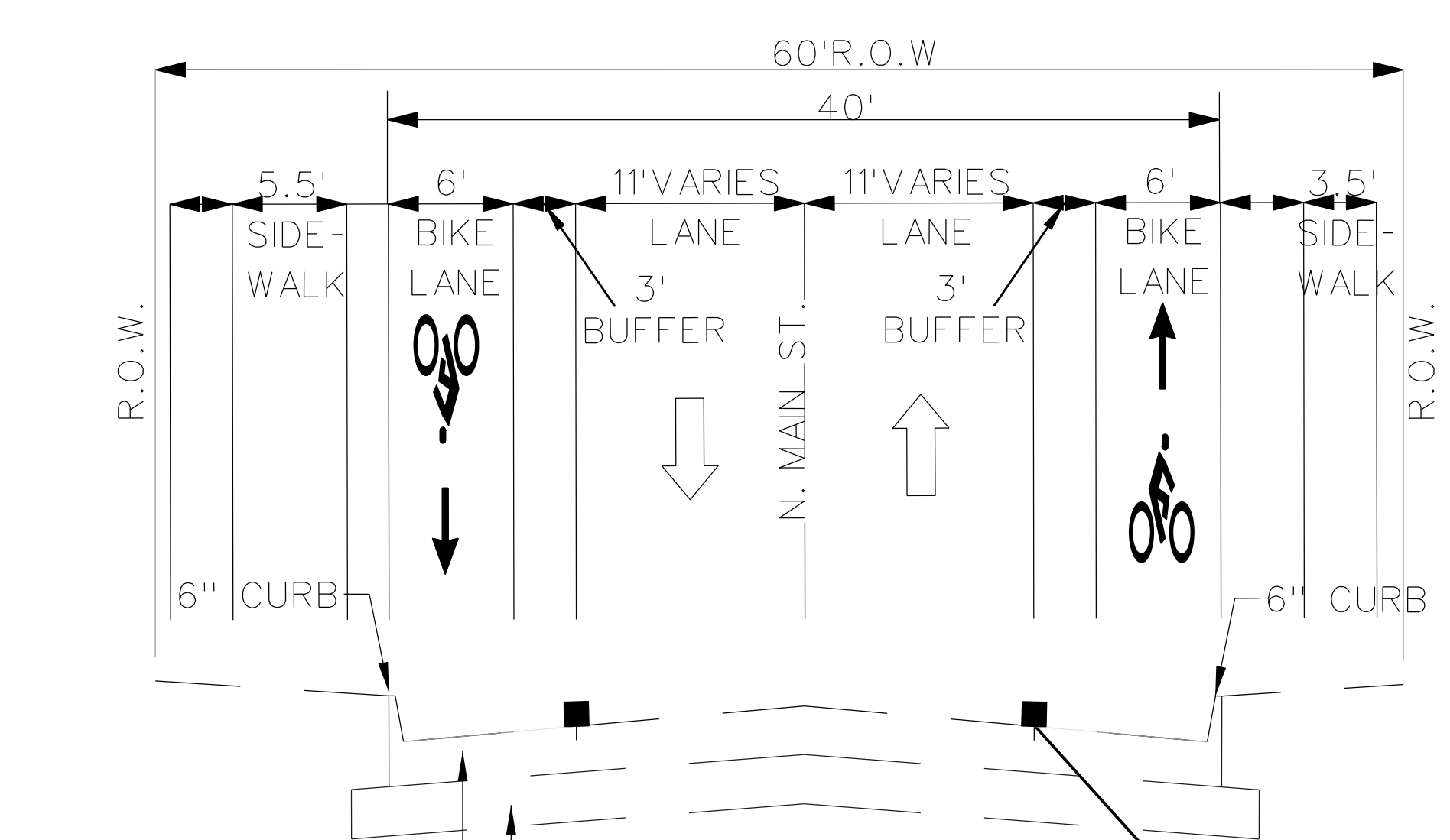


8" CONCRETE PVMT
8" FLEXIBLE BASE
N.MAIN (8) EXISTING TYPICAL SECTION
STA 115+00.00

LEGEND:
1-PROP ARMADILLO



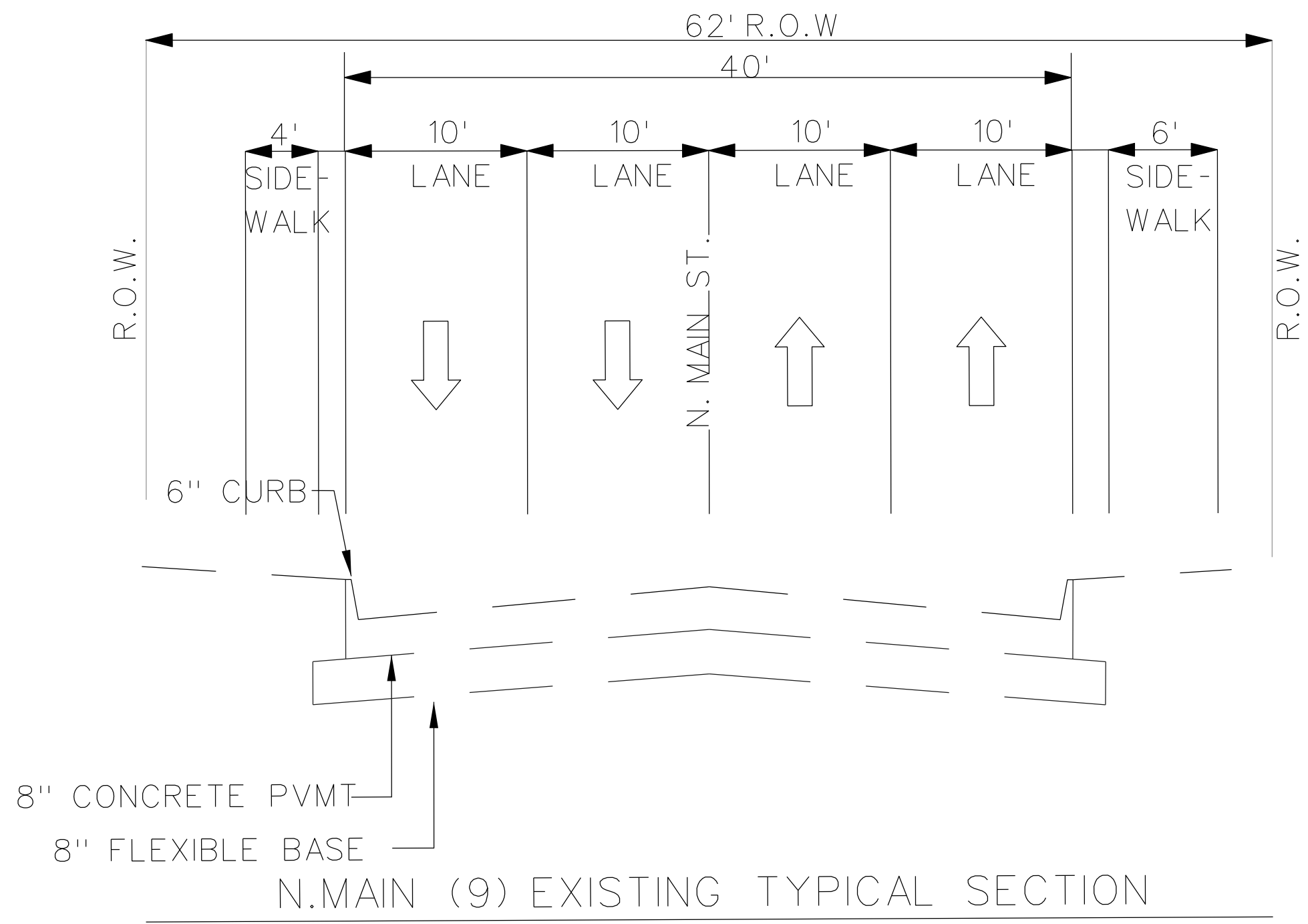
8" CONCRETE PVMT
8" FLEXIBLE BASE
N.MAIN (7) PROPOSED TYPICAL SECTION
STA 111+00.00



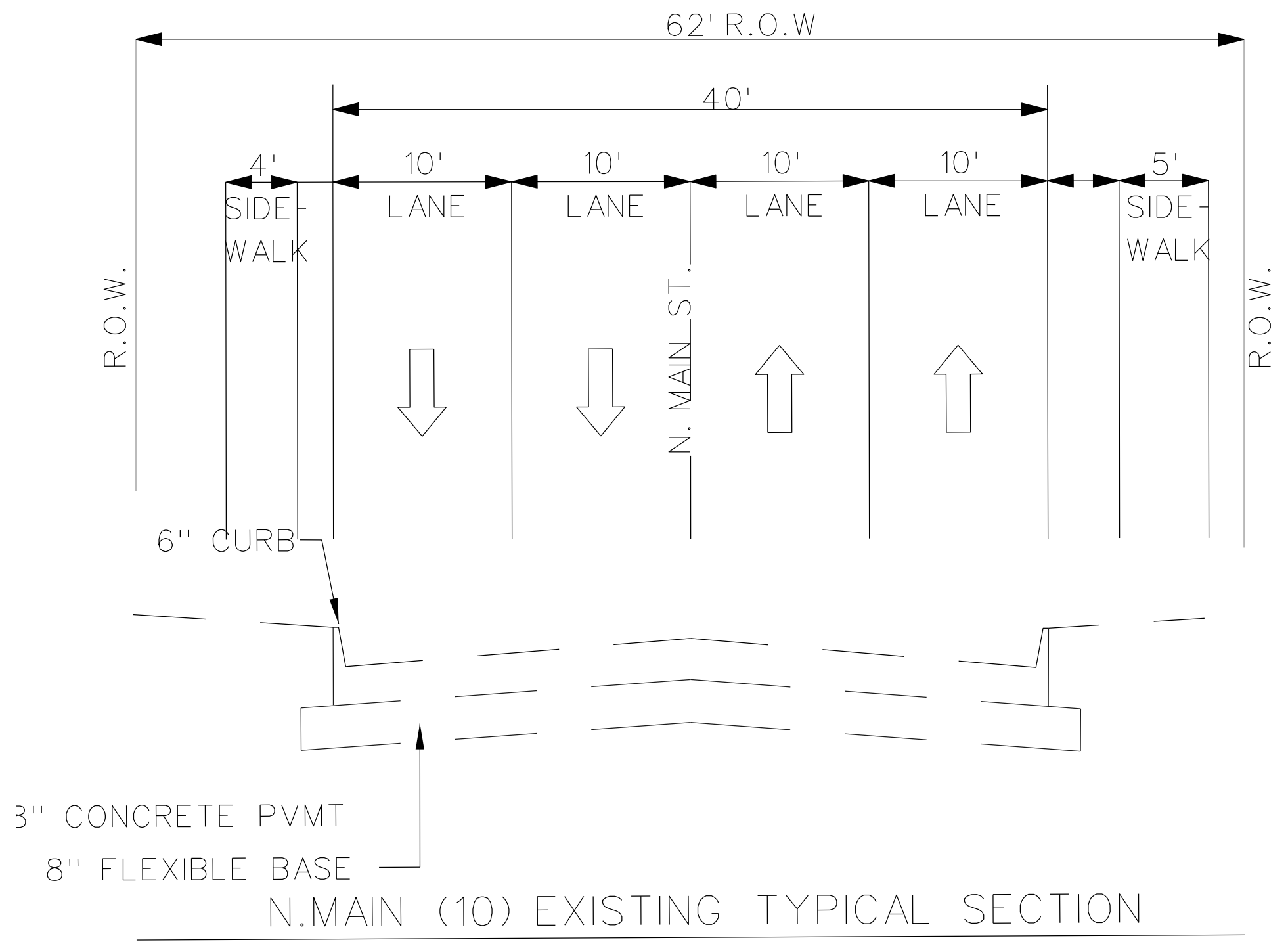
8" CONCRETE PVMT
8" FLEXIBLE BASE
N.MAIN (8) PROPOSED TYPICAL SECTION
STA 115+00.00

NOTE:
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 ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 RD ST., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020 NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 3 OF 9	
WBS NUMBER N-320610-0128-3	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE AS NOTED	
CITY OF HOUSTON PM PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 11 OF 28	

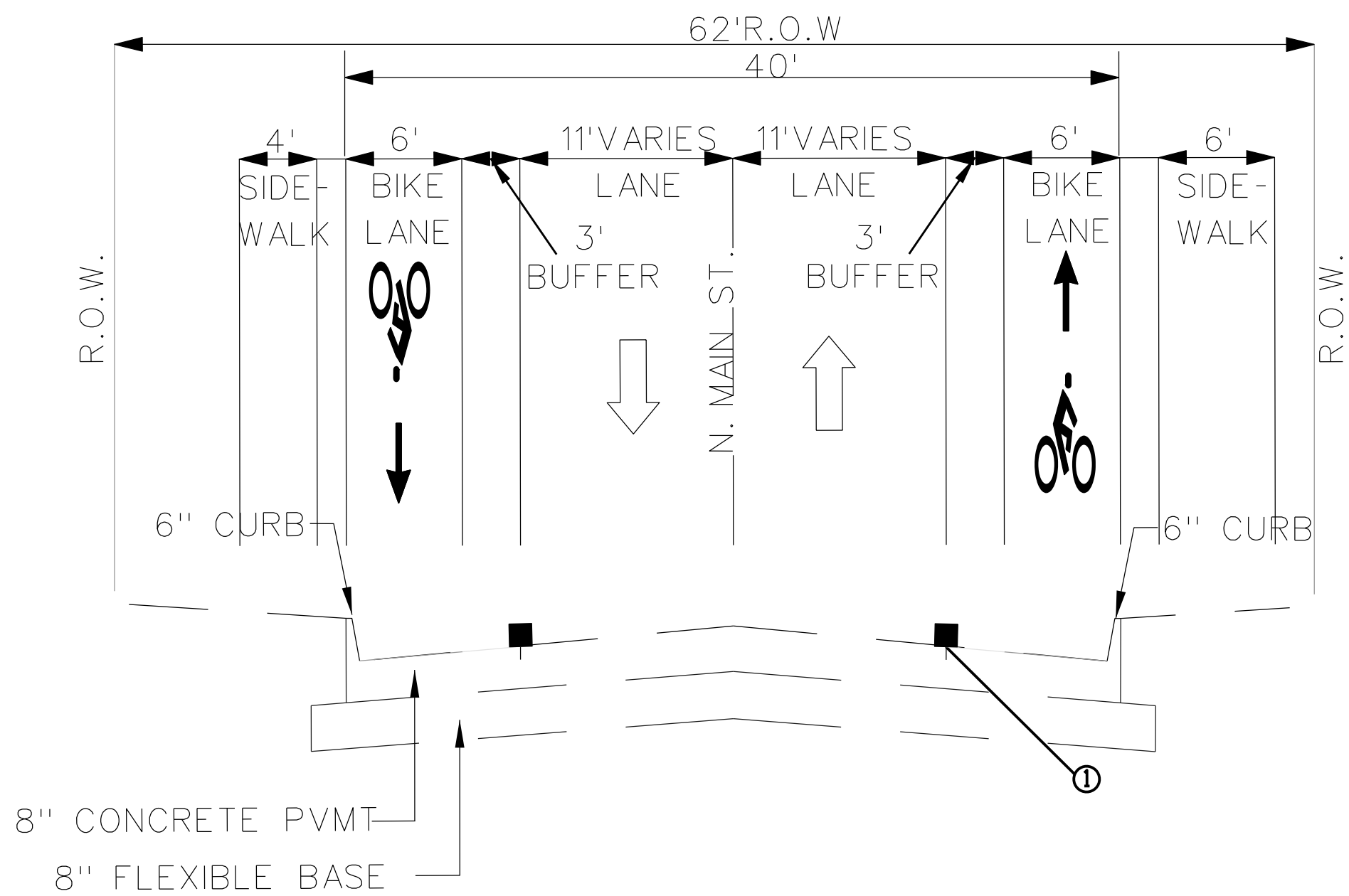


N.MAIN (9) EXISTING TYPICAL SECTION
STA 116+50.00

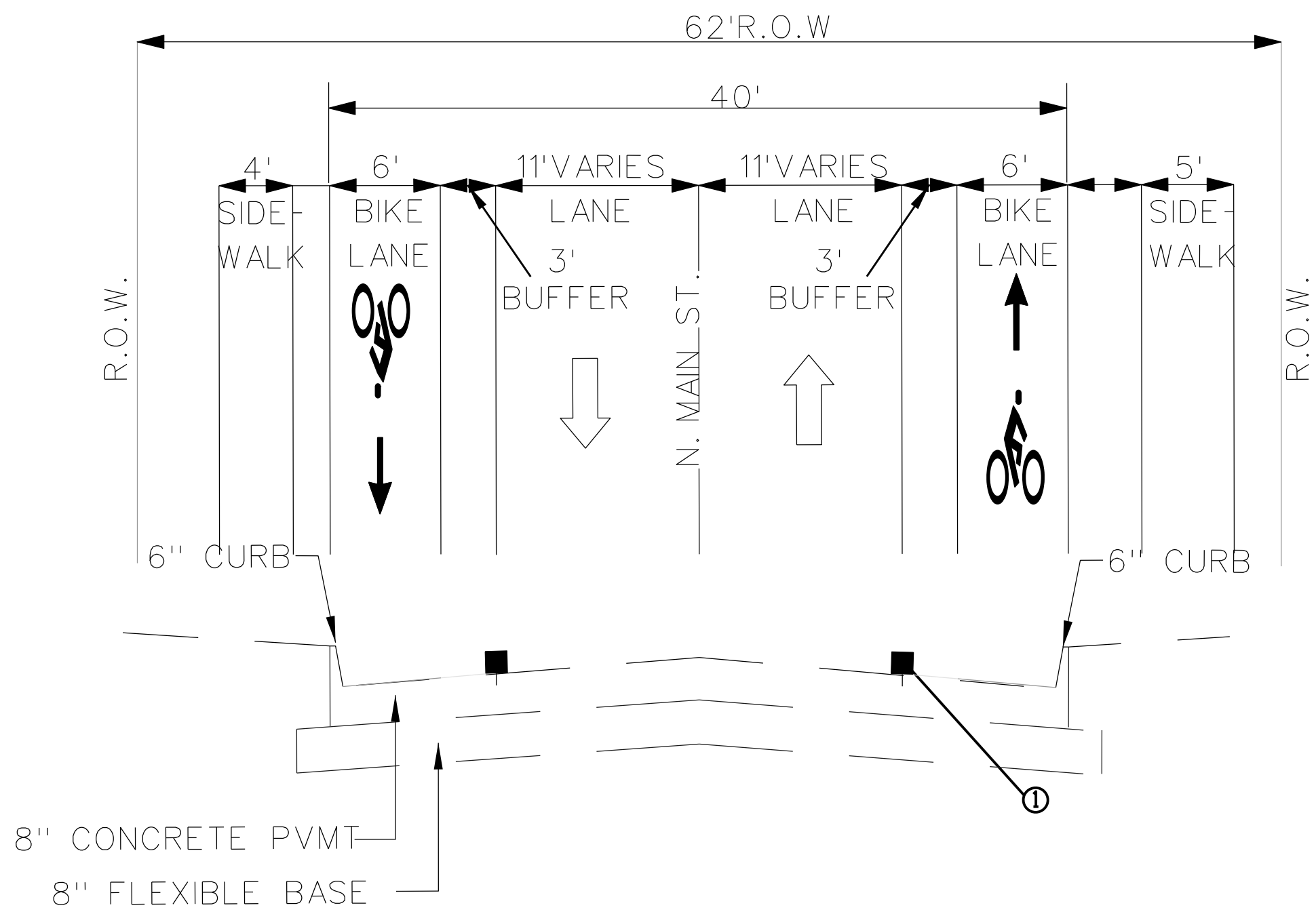


N.MAIN (10) EXISTING TYPICAL SECTION
STA 118+00.00

LEGEND:
1-PROP ARMADILLO




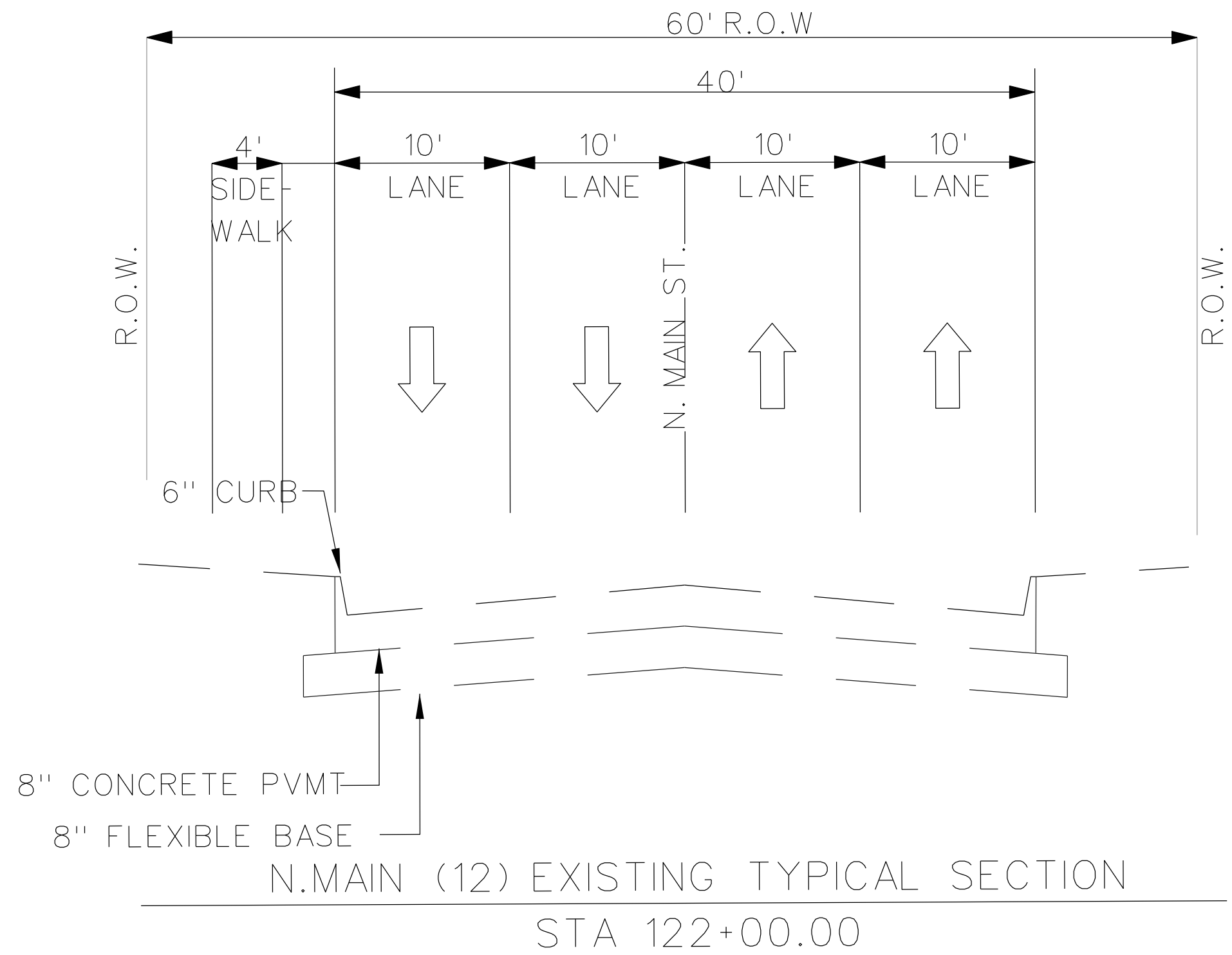
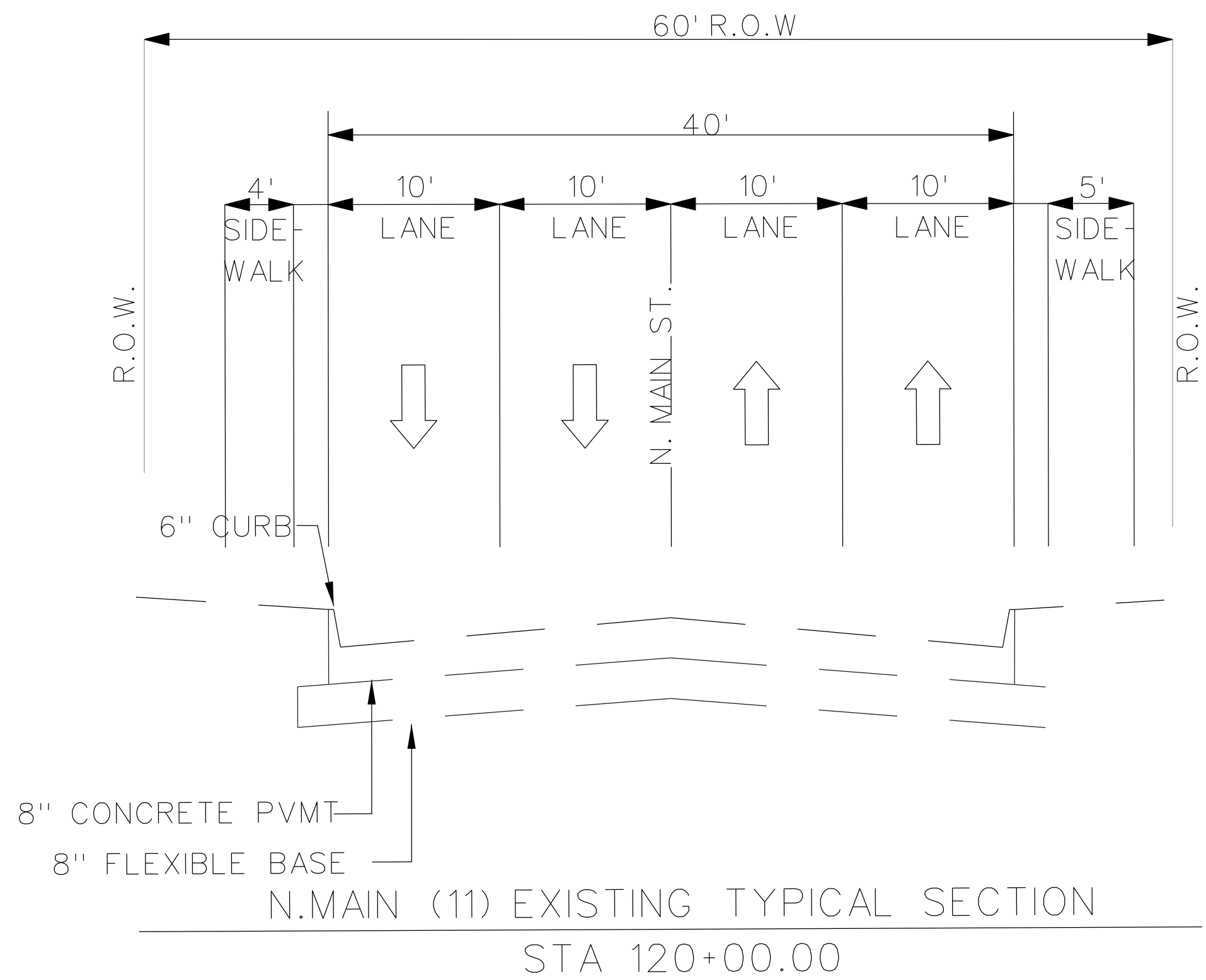
N.MAIN (9) PROPOSED TYPICAL SECTION
STA 116+50.00



N.MAIN (10) PROPOSED TYPICAL SECTION
STA 118+00.00

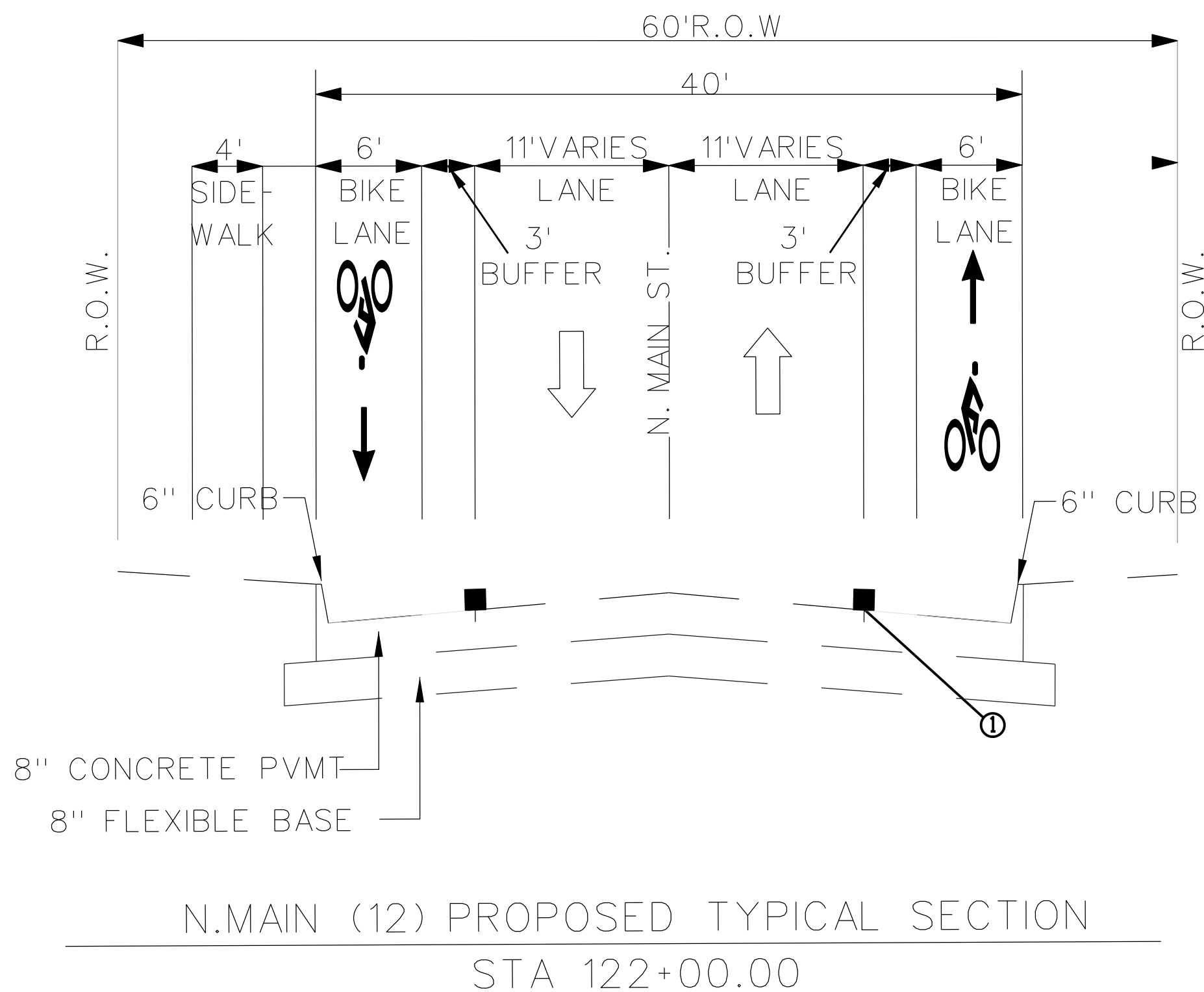
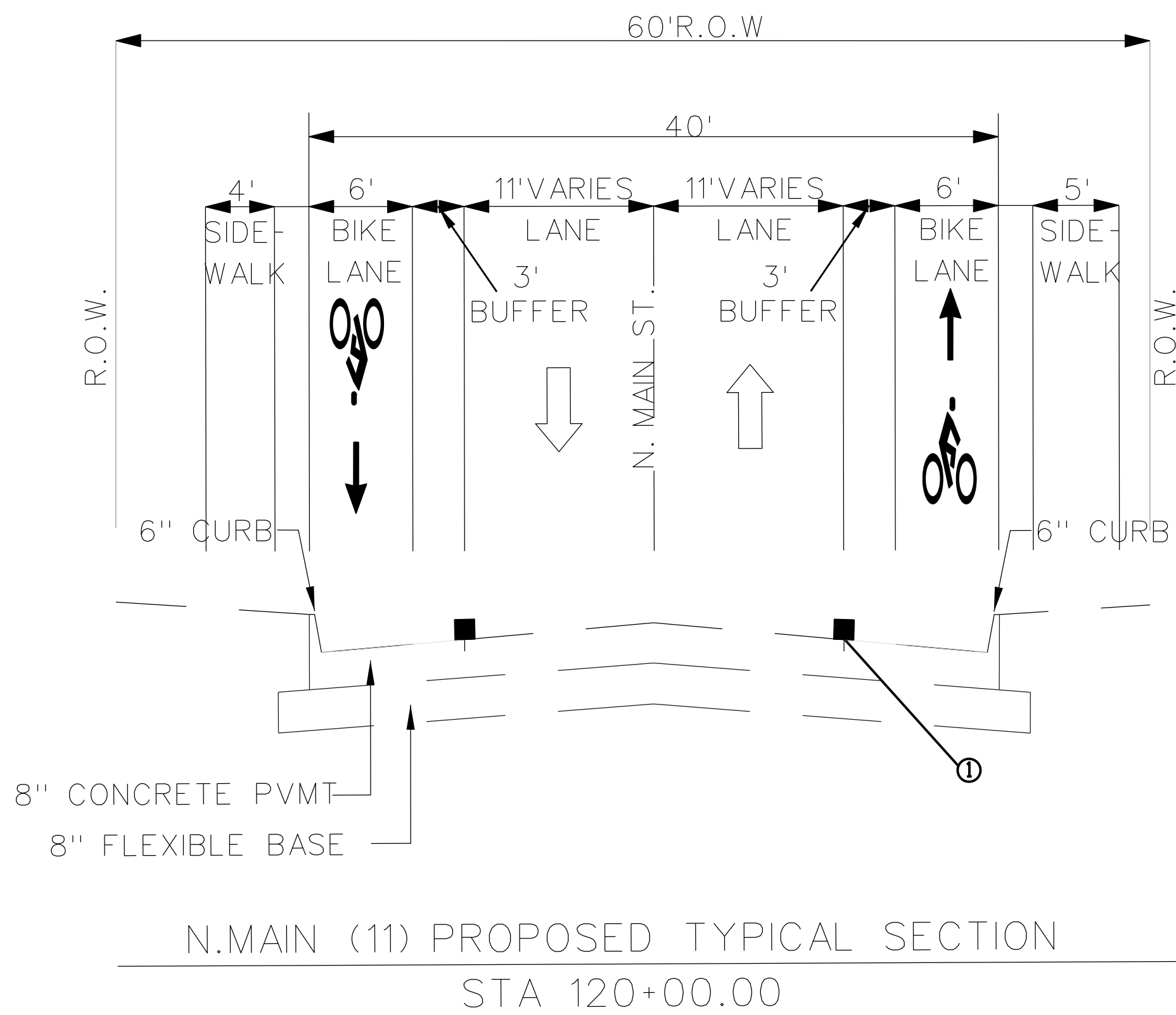
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<div><div><div>ENGINEERING & CONSTRUCTION</div></div><div><div>Ally General Solutions, LLC</div><div>dba AGS Engineering & Construction</div><div>7070 W. 43rd St., Ste 203</div><div>Houston, TX 77092</div><div>Ph: (281) 888-7682</div><div>Texas Registration No. F-13574</div></div></div>		<div>PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020</div>	
<div>SURVEYED BY: AGS FB NO. NA</div>		<div>NOT FOR CONSTRUCTION, BIDDING OR PERMITTING</div>	
<div>CITY OF HOUSTON</div> <div>HOUSTON PUBLIC WORKS</div>			
<div>N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 4 OF 9</div>			
<div>WBS NUMBER</div>		<div>FOR CITY OF HOUSTON USE ONLY</div>	
<div>N-320610-0128-3</div>			
<div>DRAWING SCALE</div>			
<div>AS NOTED</div>			
<div>CITY OF HOUSTON PM</div>			
<div>PATRICIA K. CAMPBELL, P.E.</div>			
<div>SHEET NO. 12 OF 28</div>			



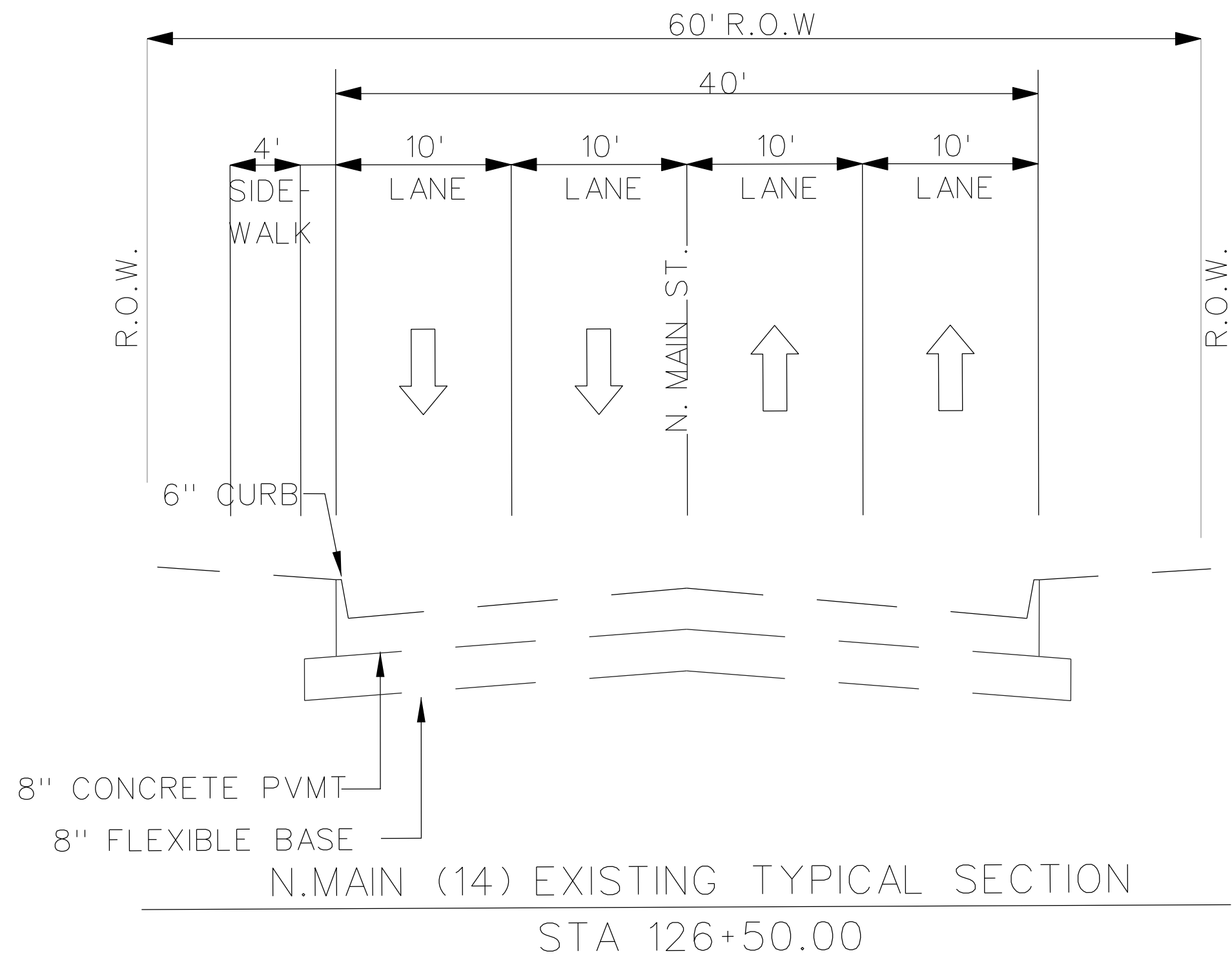
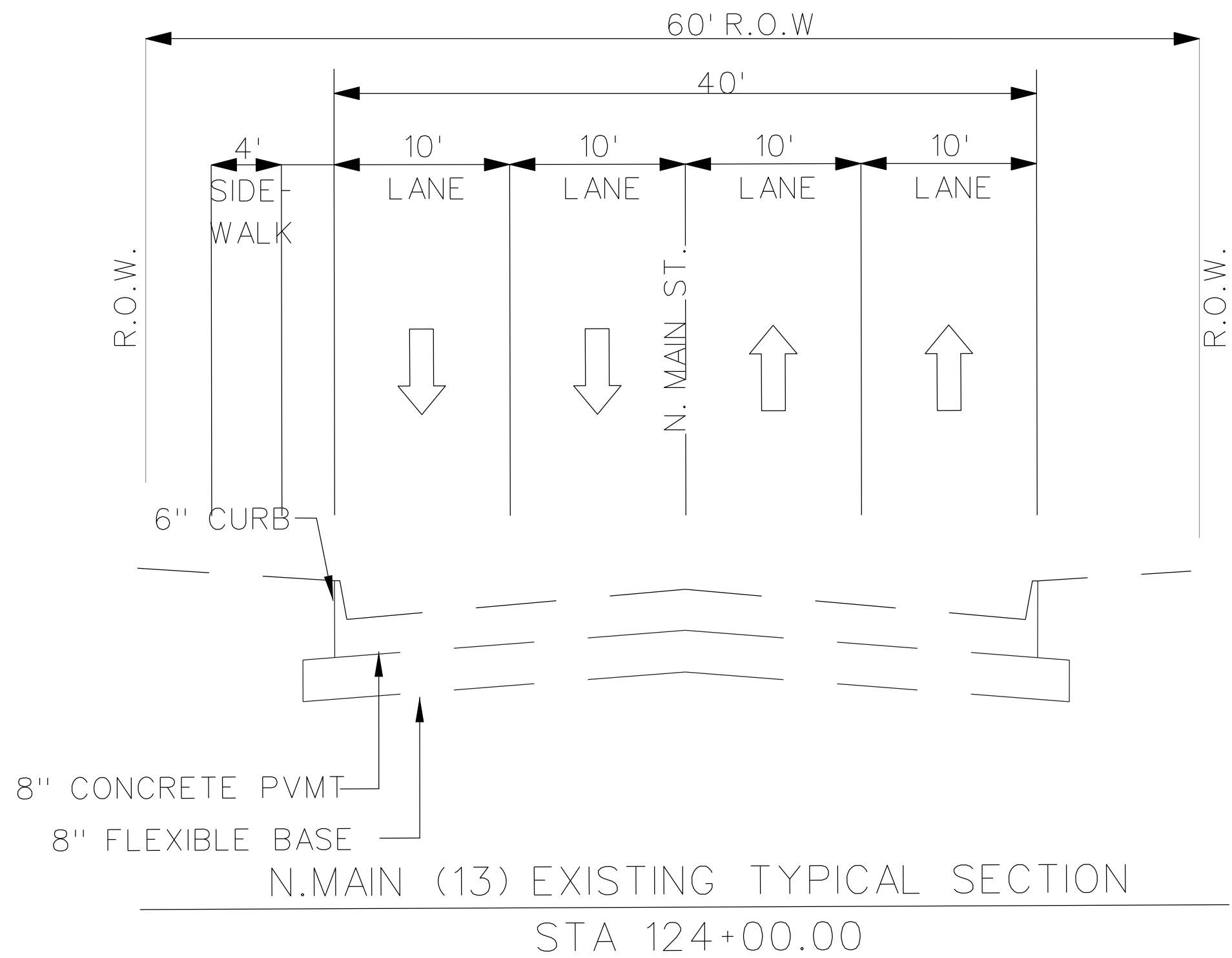
LEGEND:

1-PROP ARMADILLO



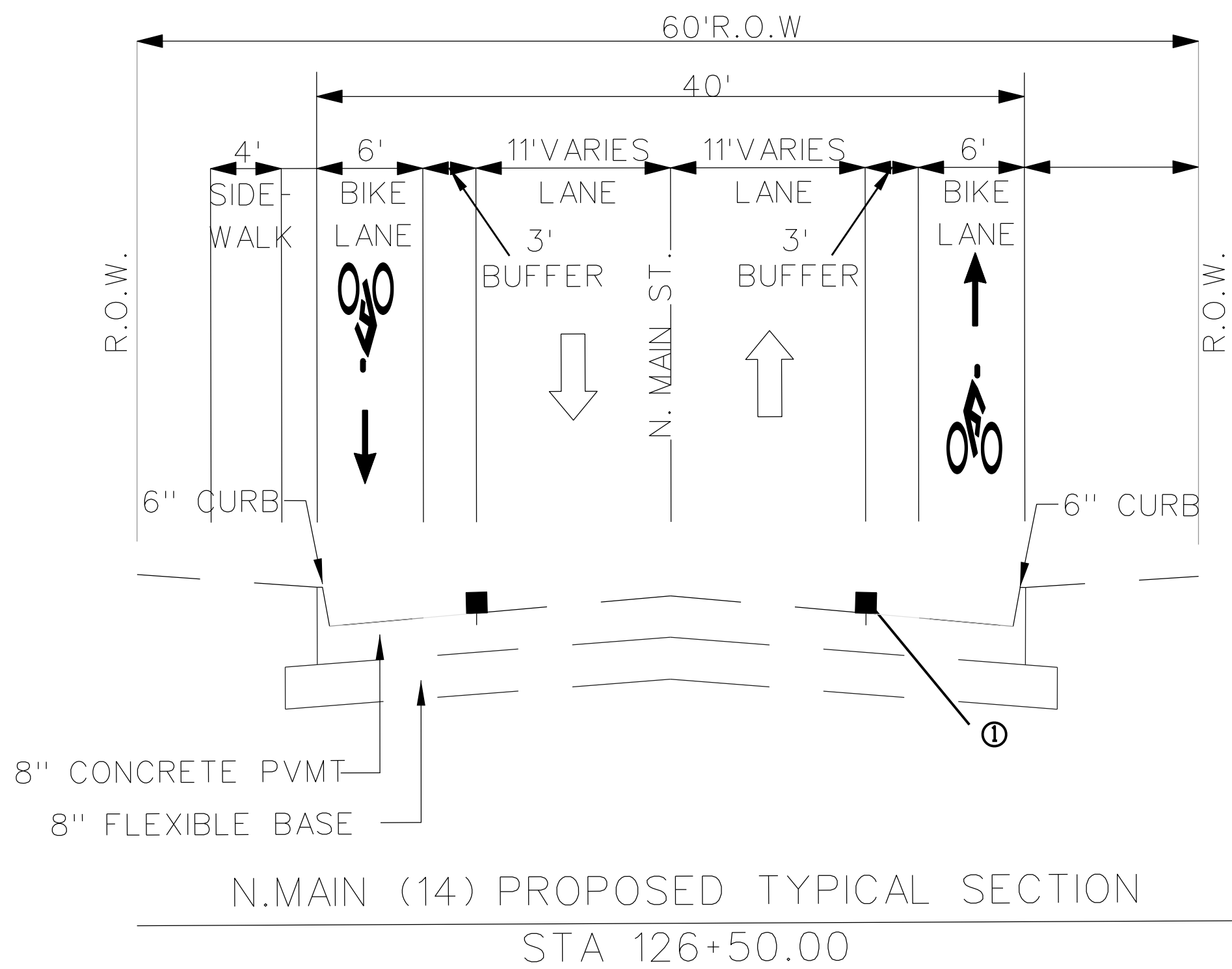
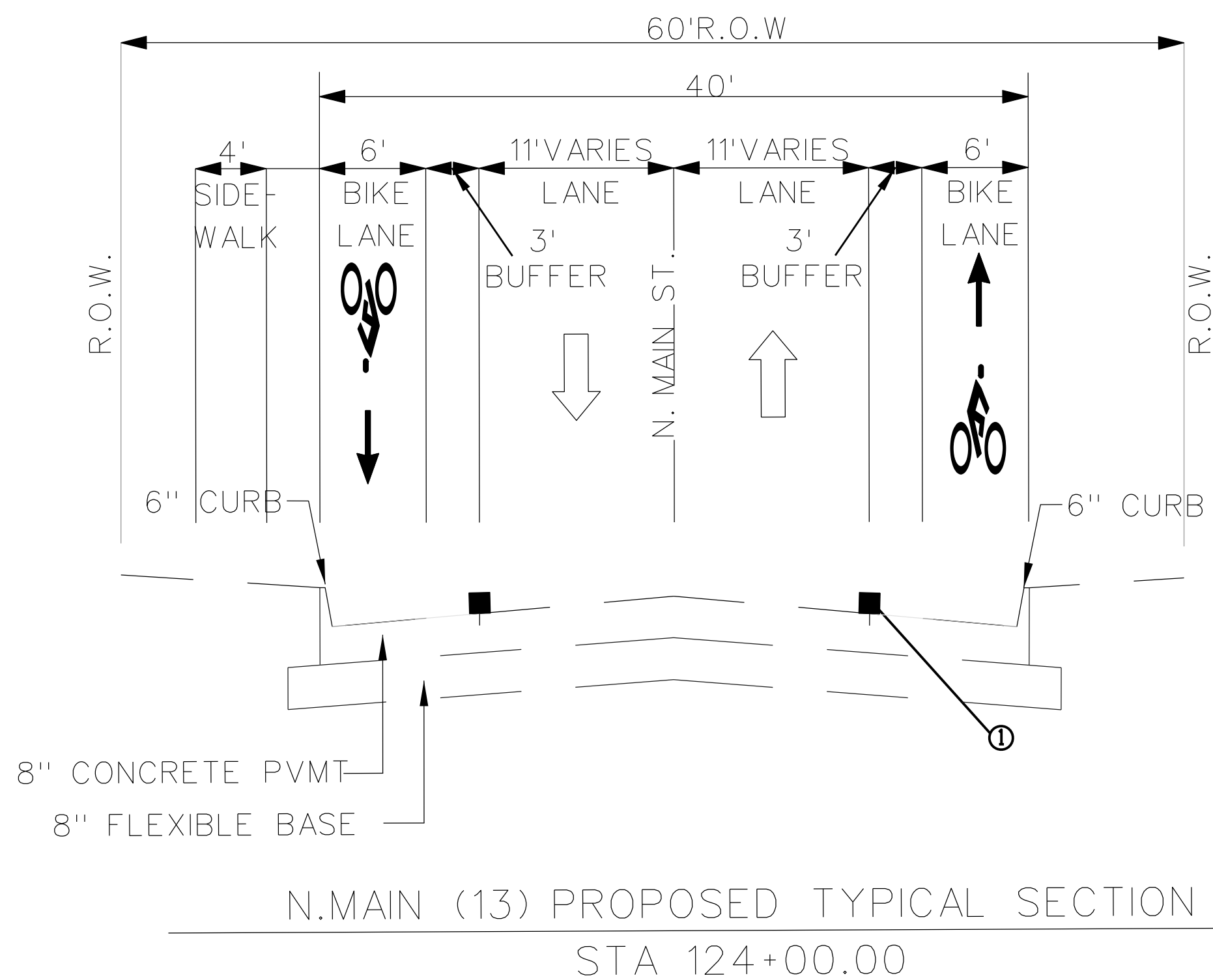
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AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
SURVEYED BY: AGS FB NO. NA	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 5 OF 9	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 13 OF 28	



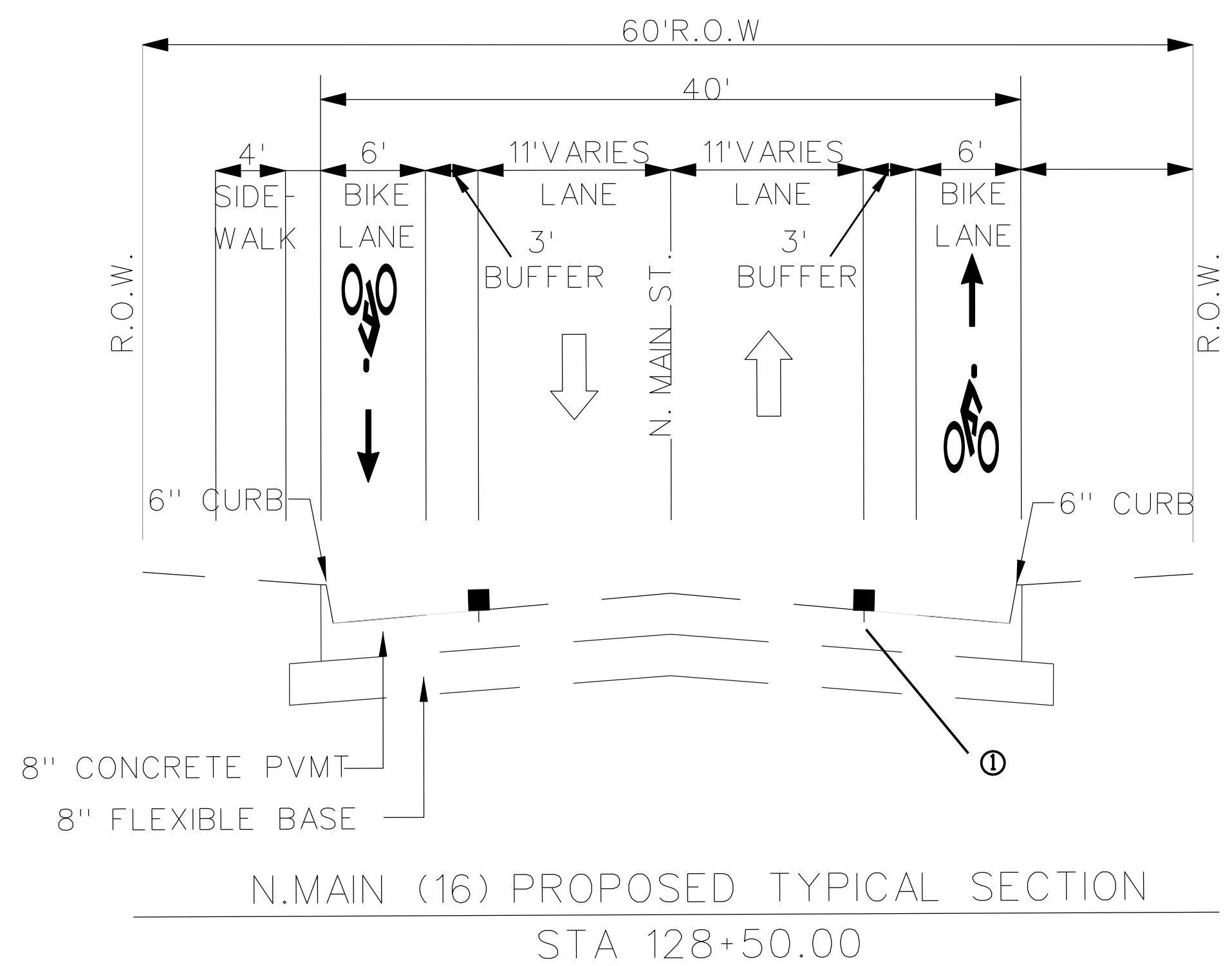
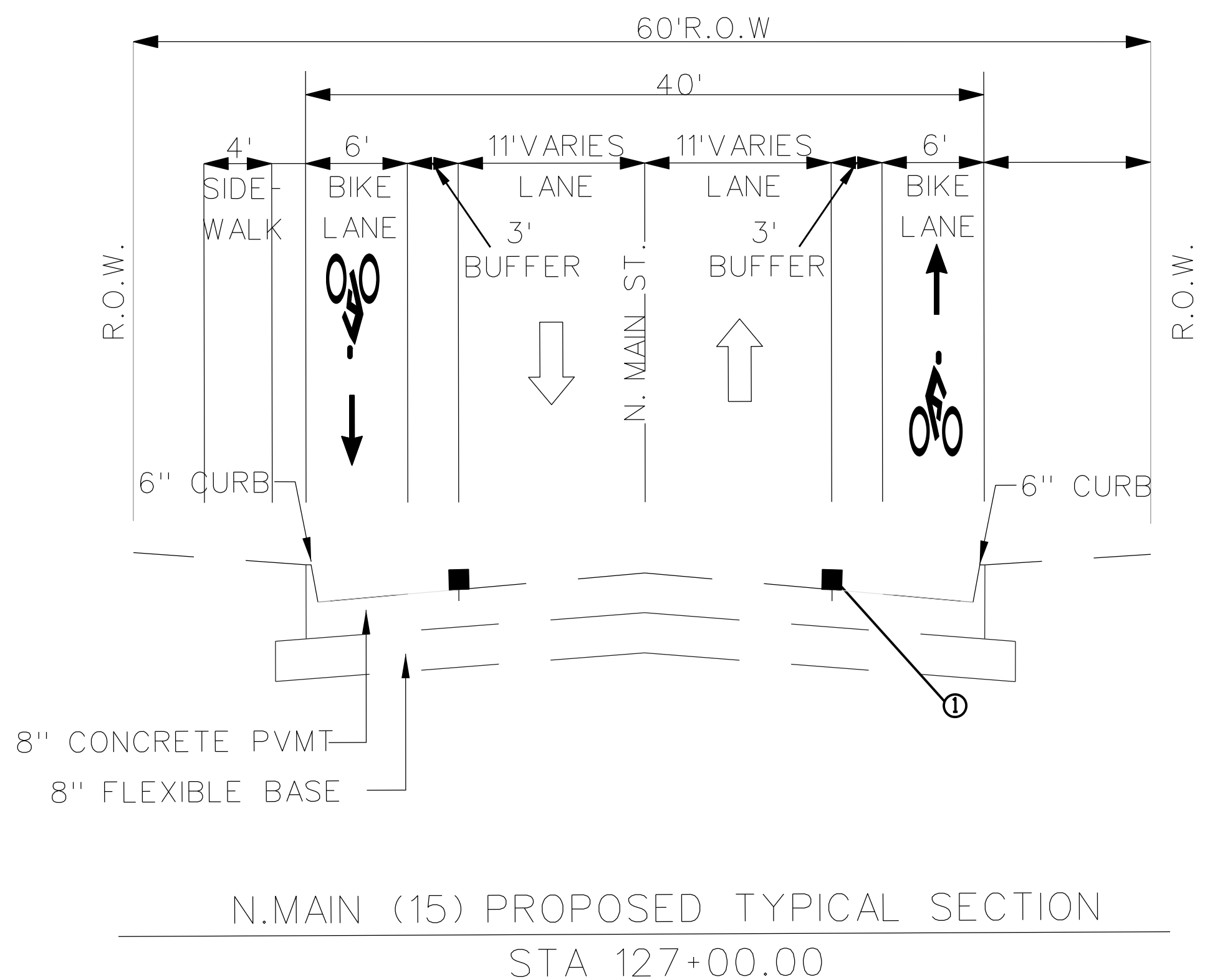
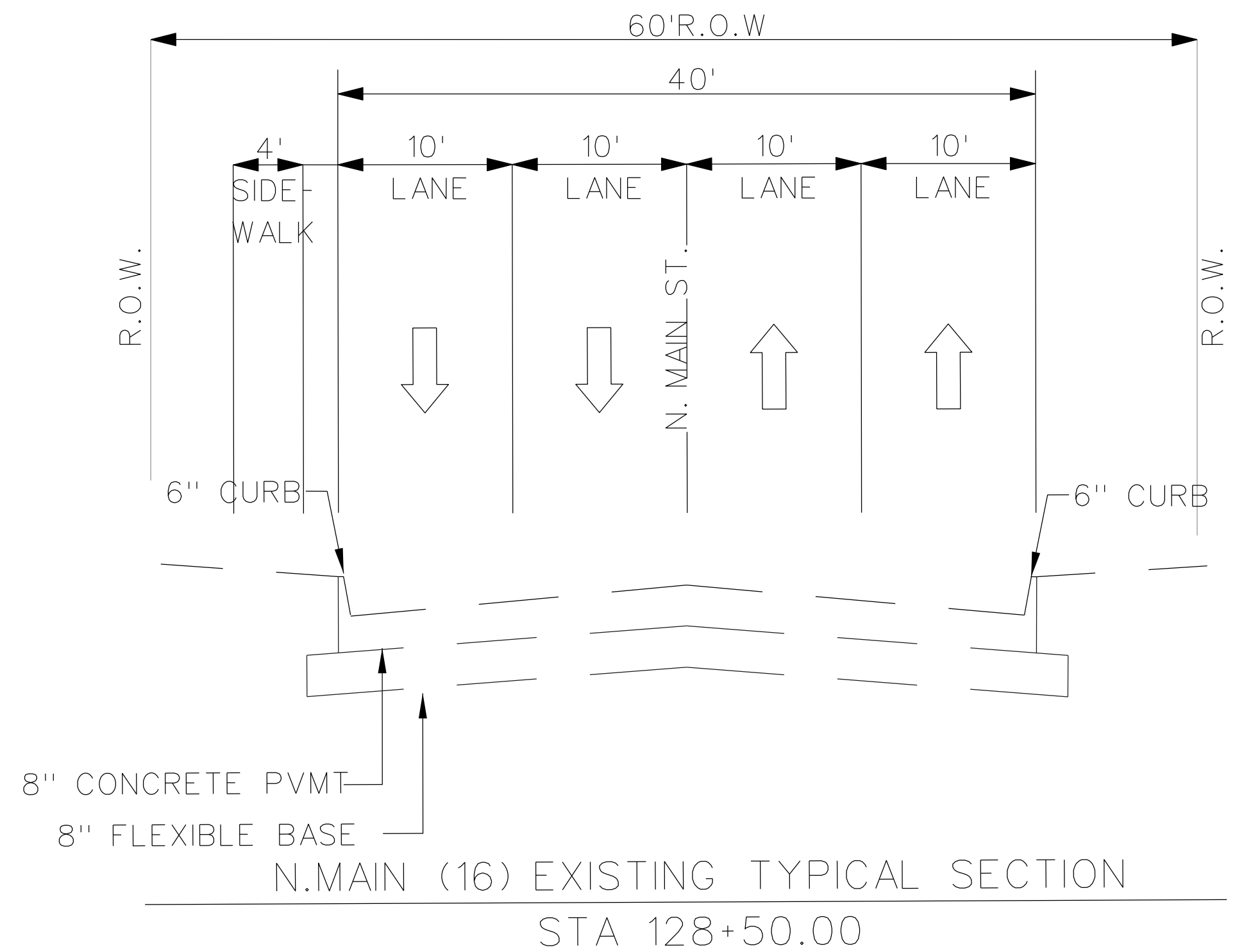
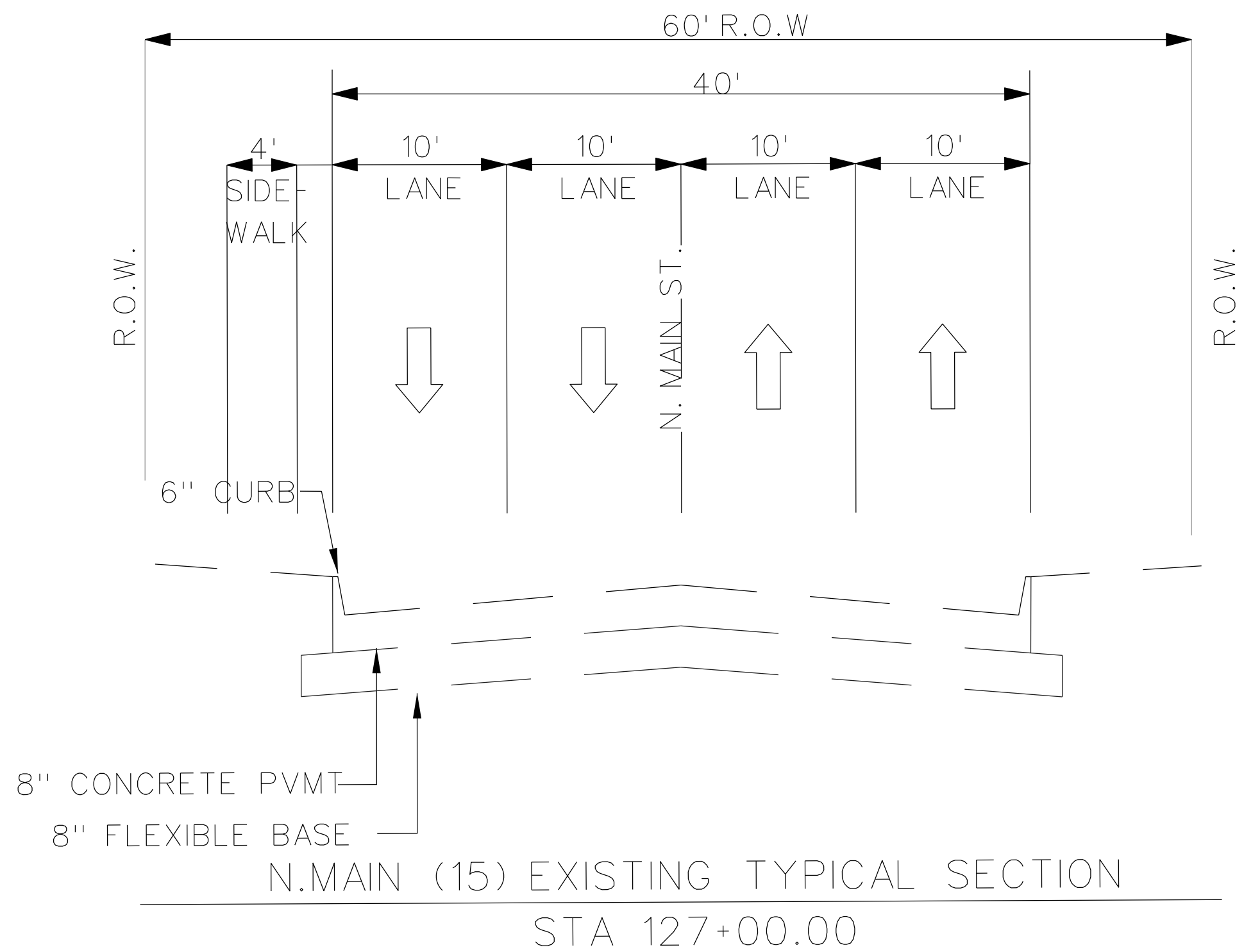
LEGEND:

1-PROP ARMADILLO



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AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 6 OF 9	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
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AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 14 OF 28	

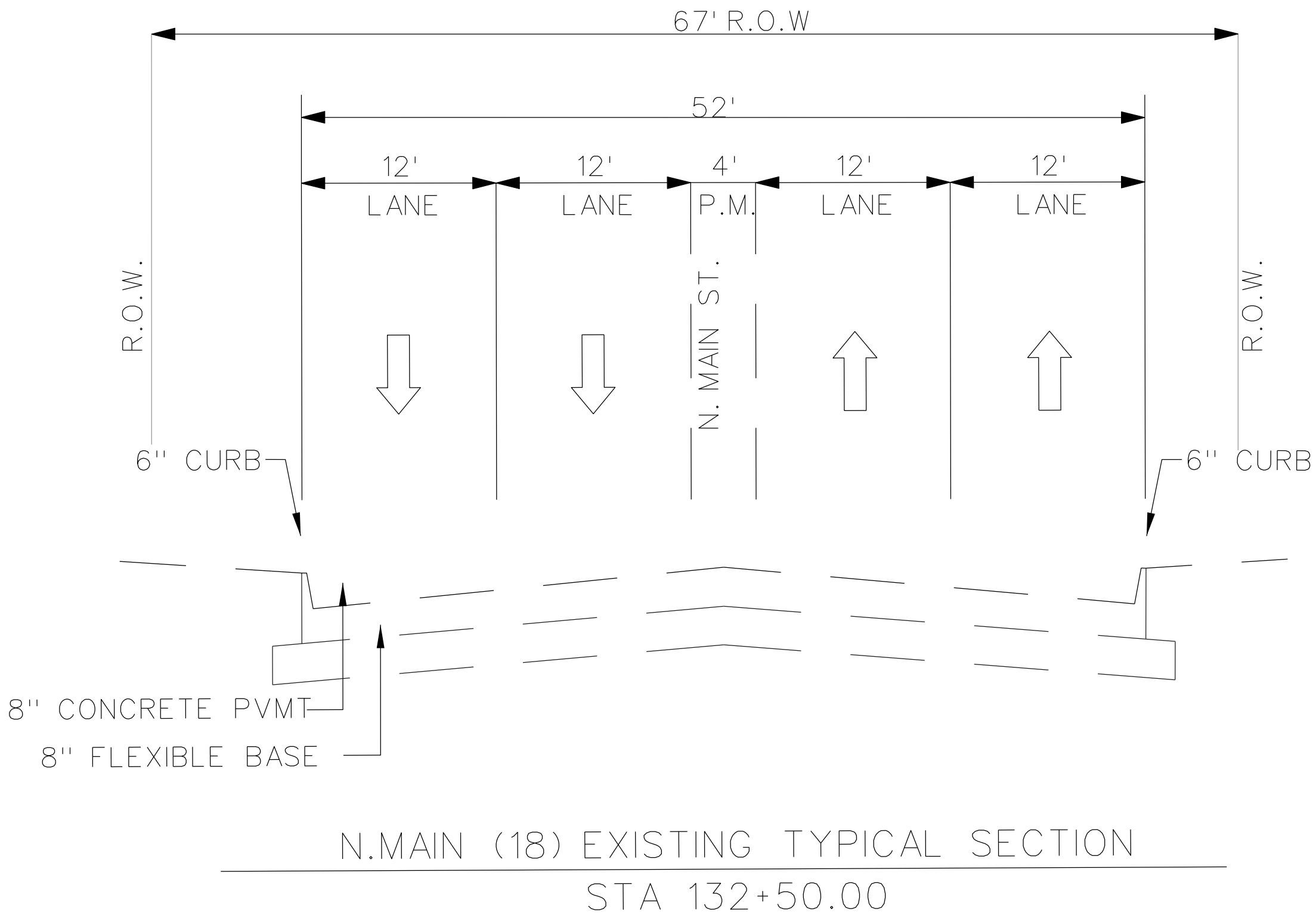
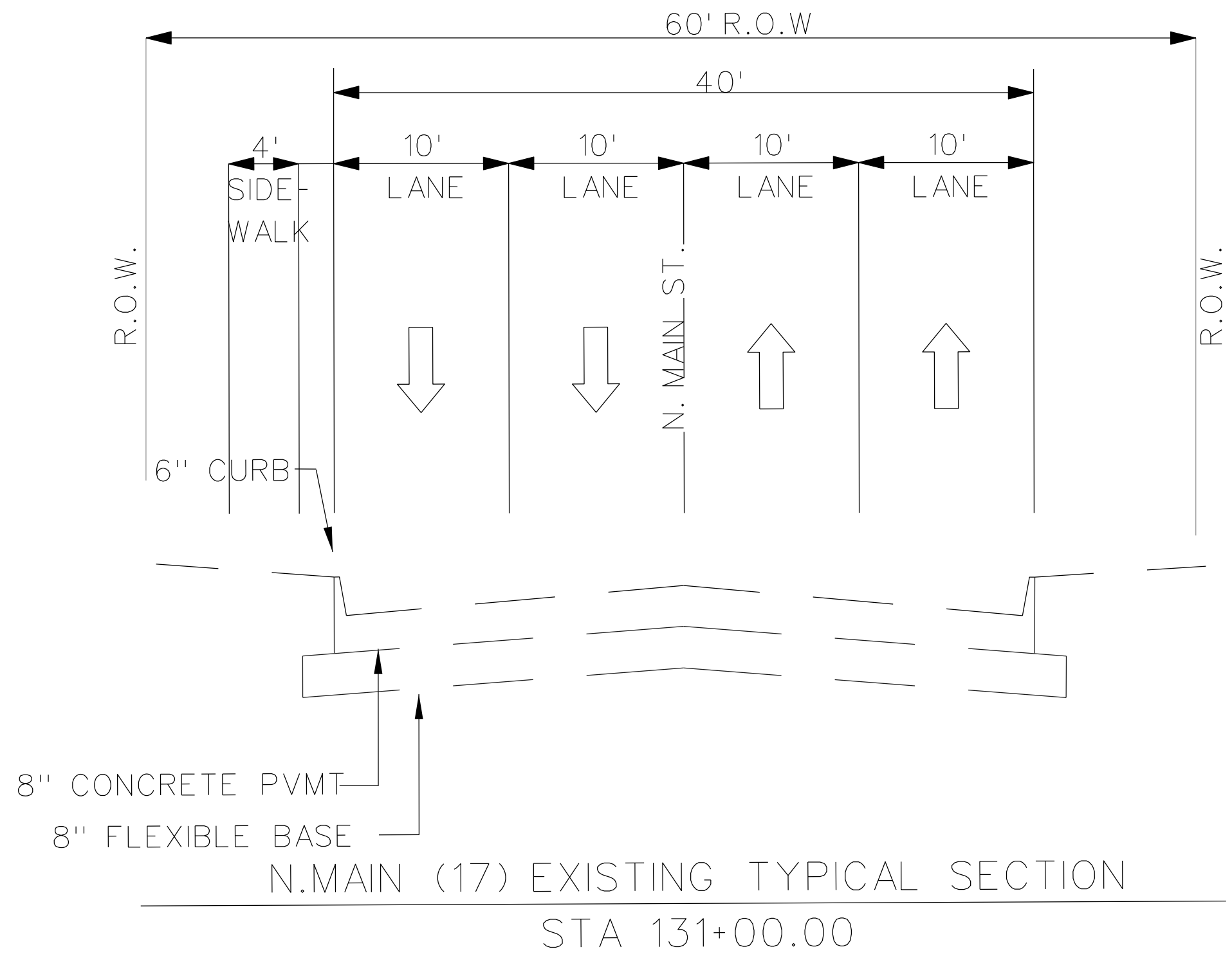


LEGEND:

1-PROP ARMADILLO

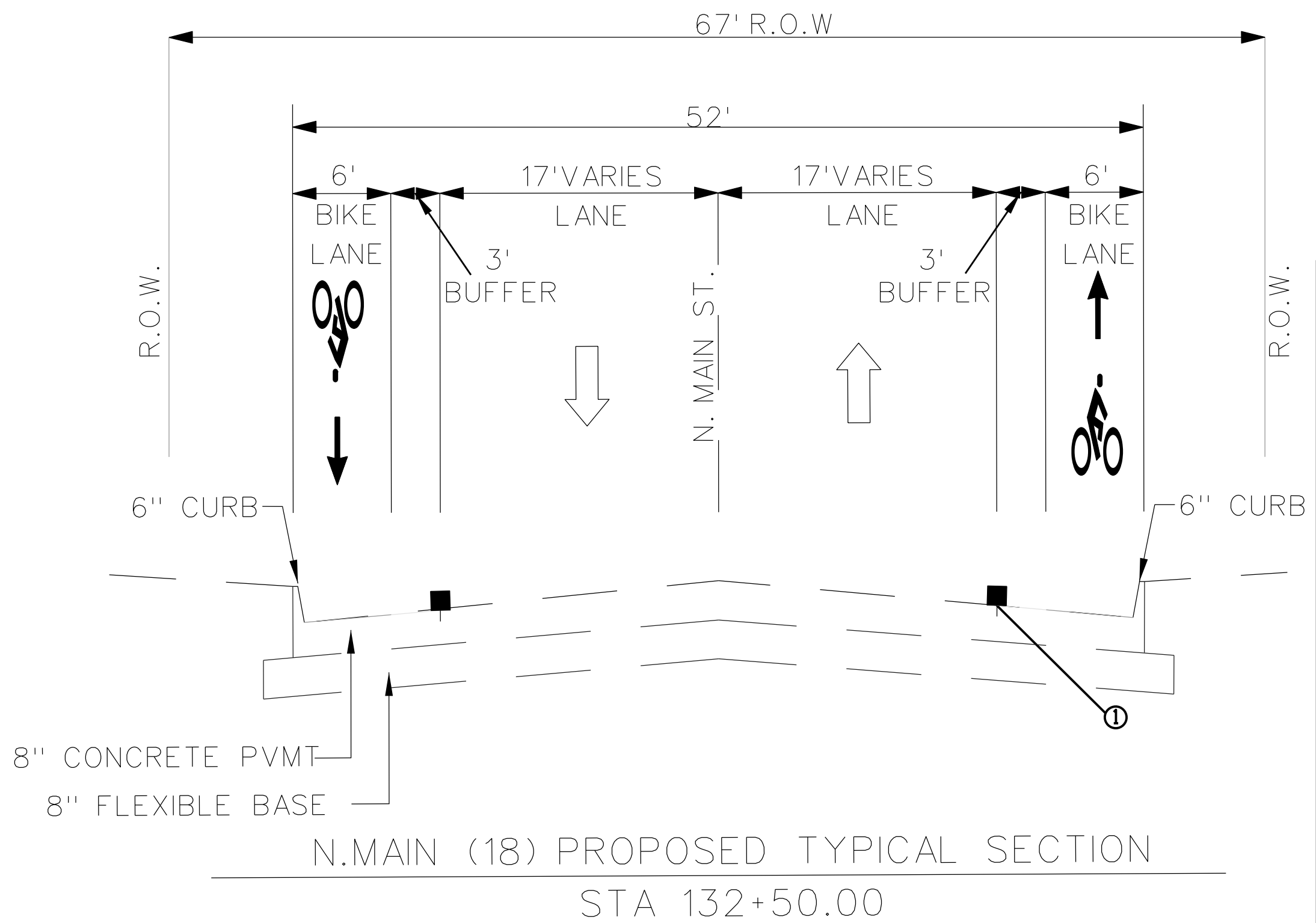
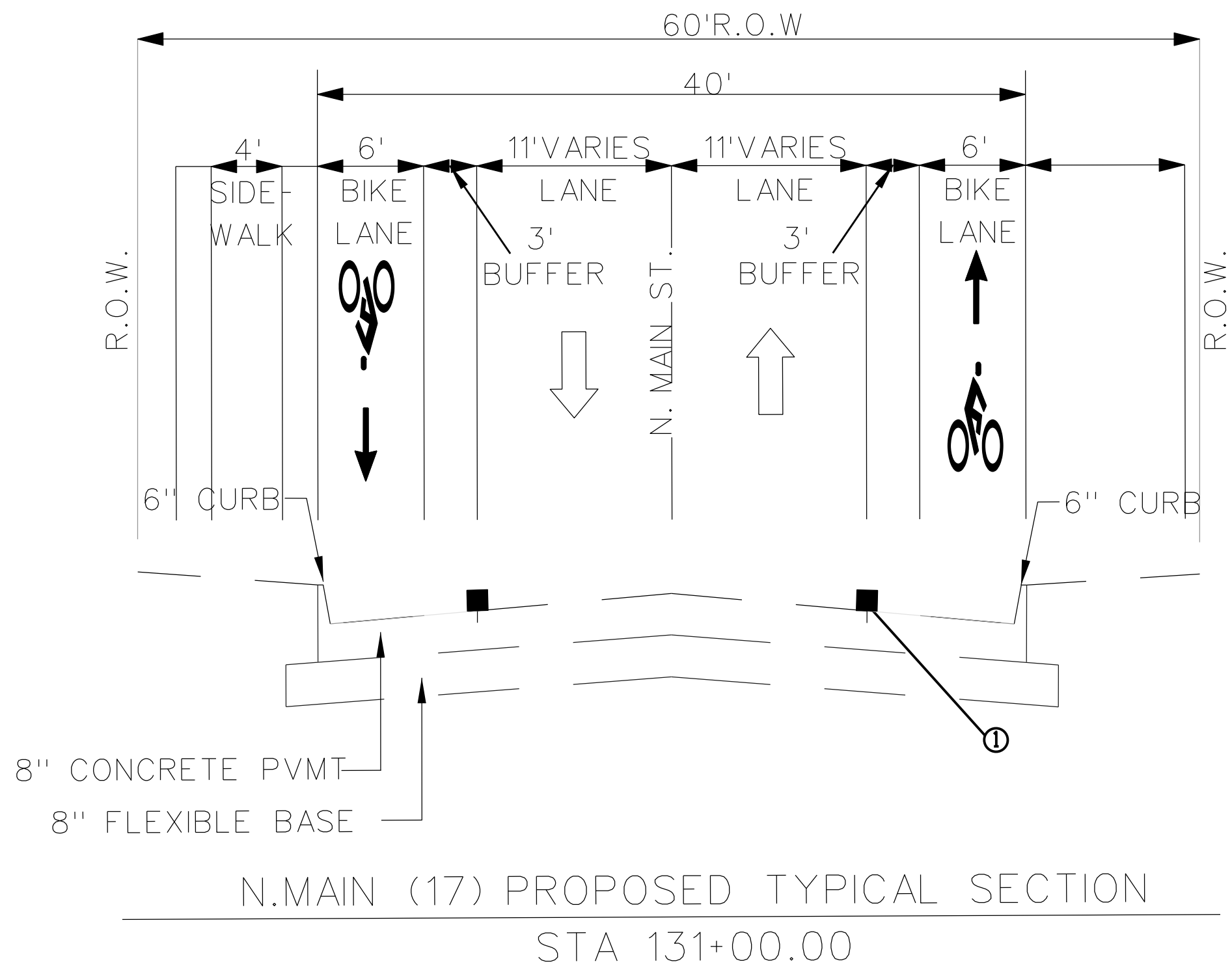
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AGS ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
SURVEYED BY: FB NO.	AGS NA	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS		
N MAIN ST TYPICALS SECTION BIKE LANES EXISTING & PROPOSED TYPICAL SECTION 7 OF 9		
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY	
N-320610-0128-3		
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AS NOTED		
CITY OF HOUSTON PM		
PATRICIA K. CAMPBELL, P.E.		
SHEET NO. 15 OF 28		




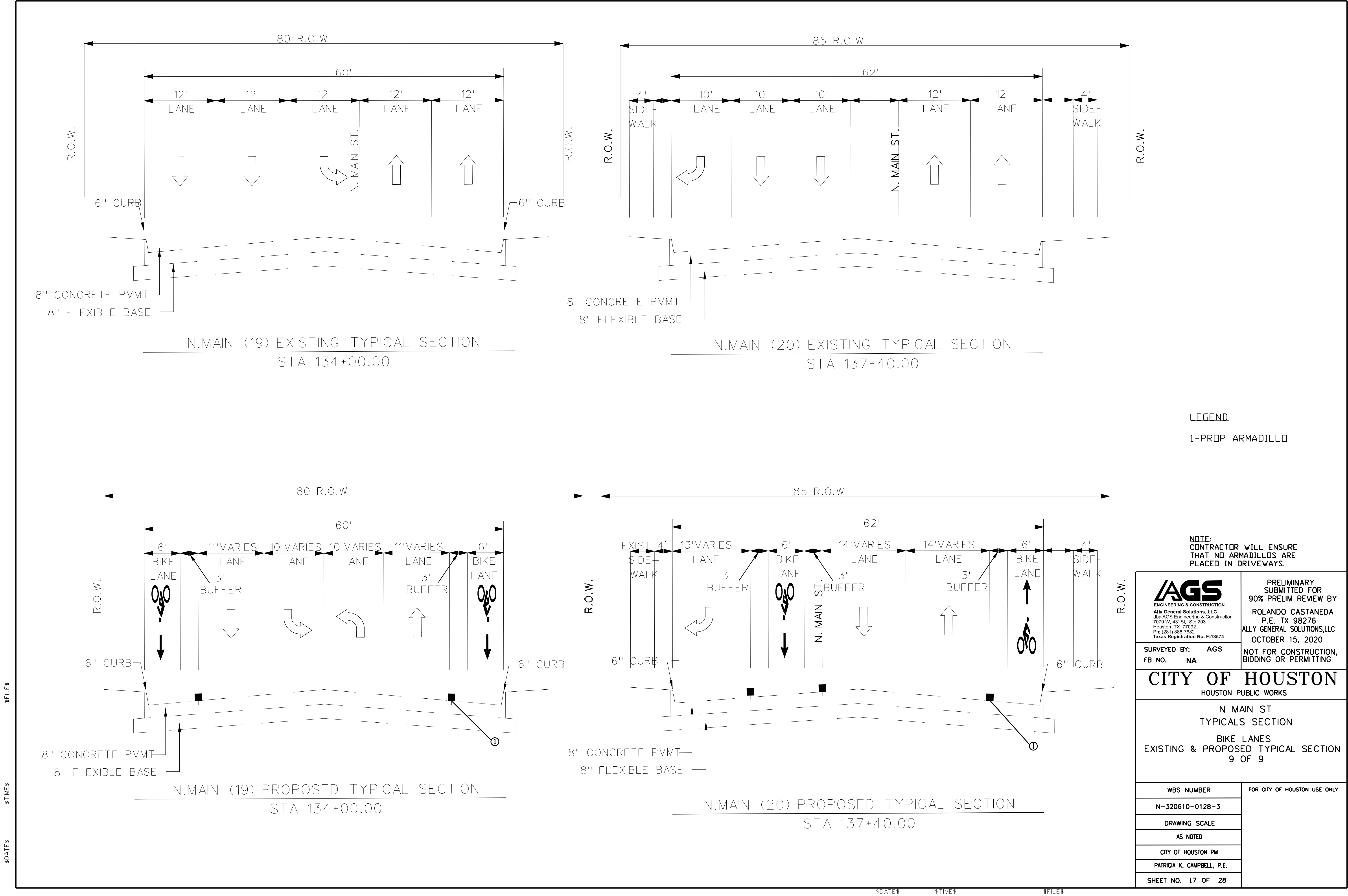
LEGEND:

1-PROP ARMADILLO



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<div><div>ENGINEERING & CONSTRUCTION</div><div>Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574</div></div>		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020
SURVEYED BY: AGS FB NO. NA	NOT FOR CONSTRUCTION, BIDDING OR PERMITTING	
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY	
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CITY OF HOUSTON PM		
PATRICIA K. CAMPBELL, P.E.		
SHEET NO. 16 OF 28		

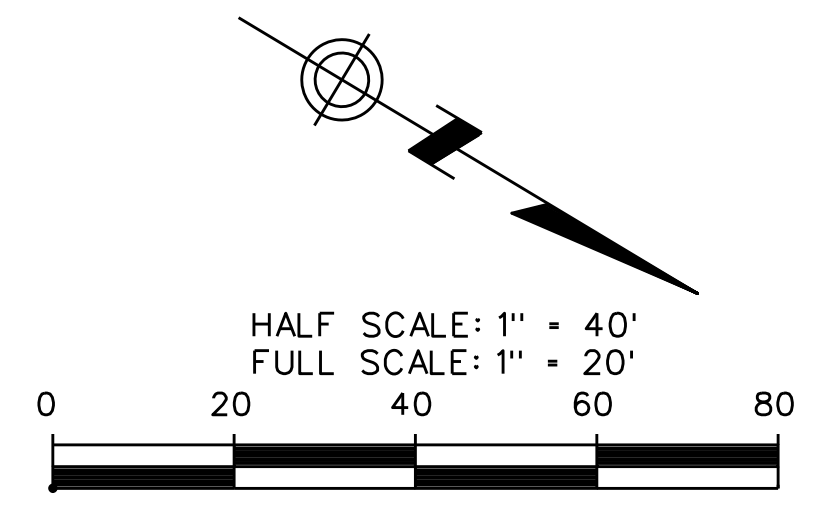


LEGEND:

1-PROP ARMADILLO

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<div><div>AGS</div><div>ENGINEERING & CONSTRUCTION</div><div>Ally General Solutions, LLC</div><div>dba AGS Engineering & Construction</div><div>7070 W. 43RD ST., Ste 203</div><div>Houston, TX 77092</div><div>Ph: (281) 888-7682</div><div>Texas Registration No. F-13574</div></div>		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020			
SURVEYED BY: AGS FB NO. NA		NOT FOR CONSTRUCTION, BIDDING OR PERMITTING			
CITY OF HOUSTON HOUSTON PUBLIC WORKS					
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WBS NUMBER		FOR CITY OF HOUSTON USE ONLY			
N-320610-0128-3					
DRAWING SCALE					
AS NOTED					
CITY OF HOUSTON PM					
PATRICIA K. CAMPBELL, P.E.					
SHEET NO. 17 OF 28					



PROPOSED LEGEND

- PROP. BUFFER LANE
- PROP. BIKE LANE
- PROP. ARMADILLO

AGS
ENGINEERING & CONSTRUCTION
Ally General Solutions, LLC
dba AGS Engineering & Construction
7070 W. 43rd St., Ste 203
Houston, TX 77092
Ph: (281) 888-7682
Texas Registration No. F-13574

PRELIMINARY
SUBMITTED FOR
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ROLANDO CASTANEDA
P.E. TX 98276
ALLY GENERAL SOLUTIONS,LLC
OCTOBER 15, 2020

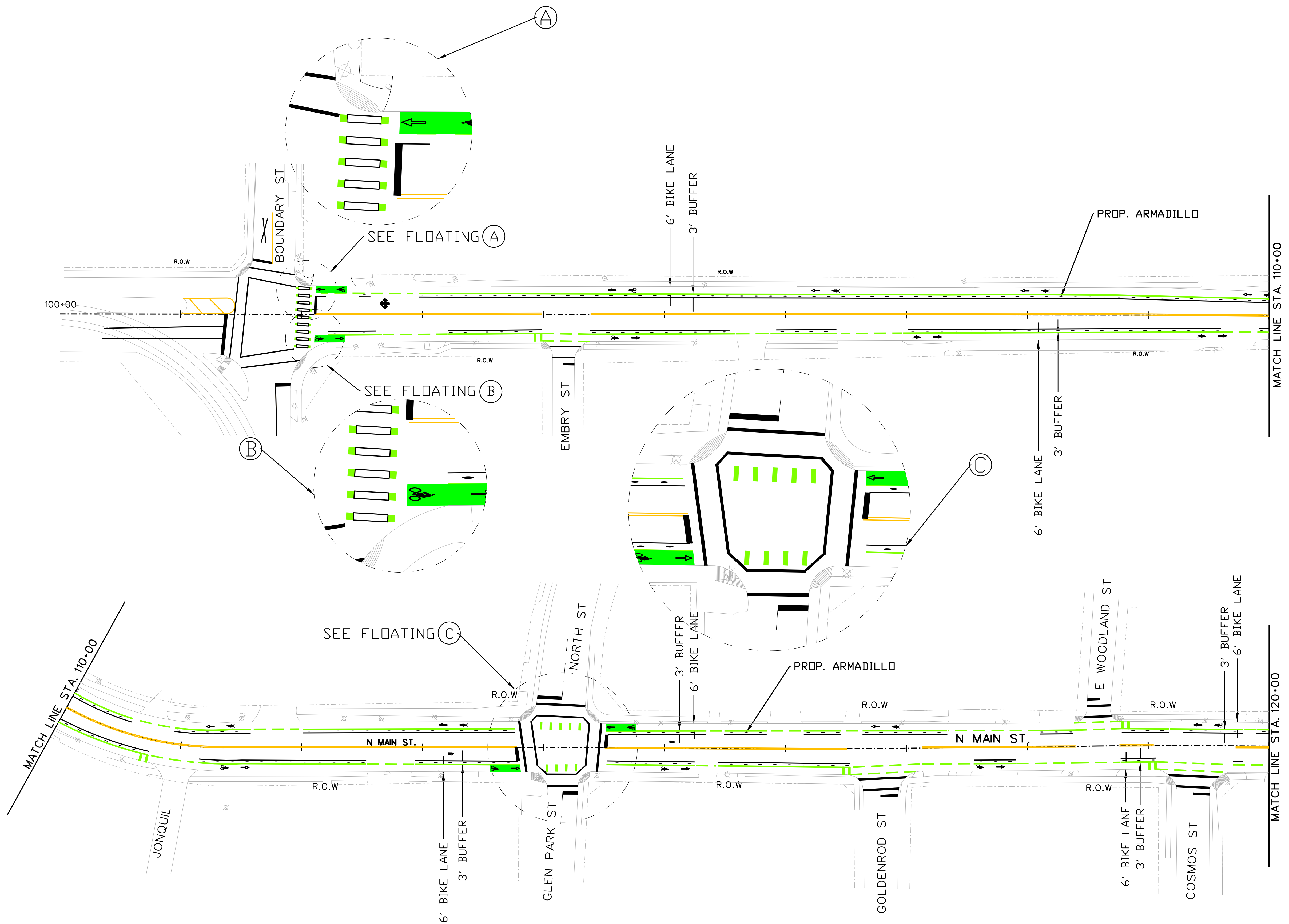
NOT FOR CONSTRUCTION,
BIDDING OR PERMITTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

**N MAIN ST
BIKE LANE**

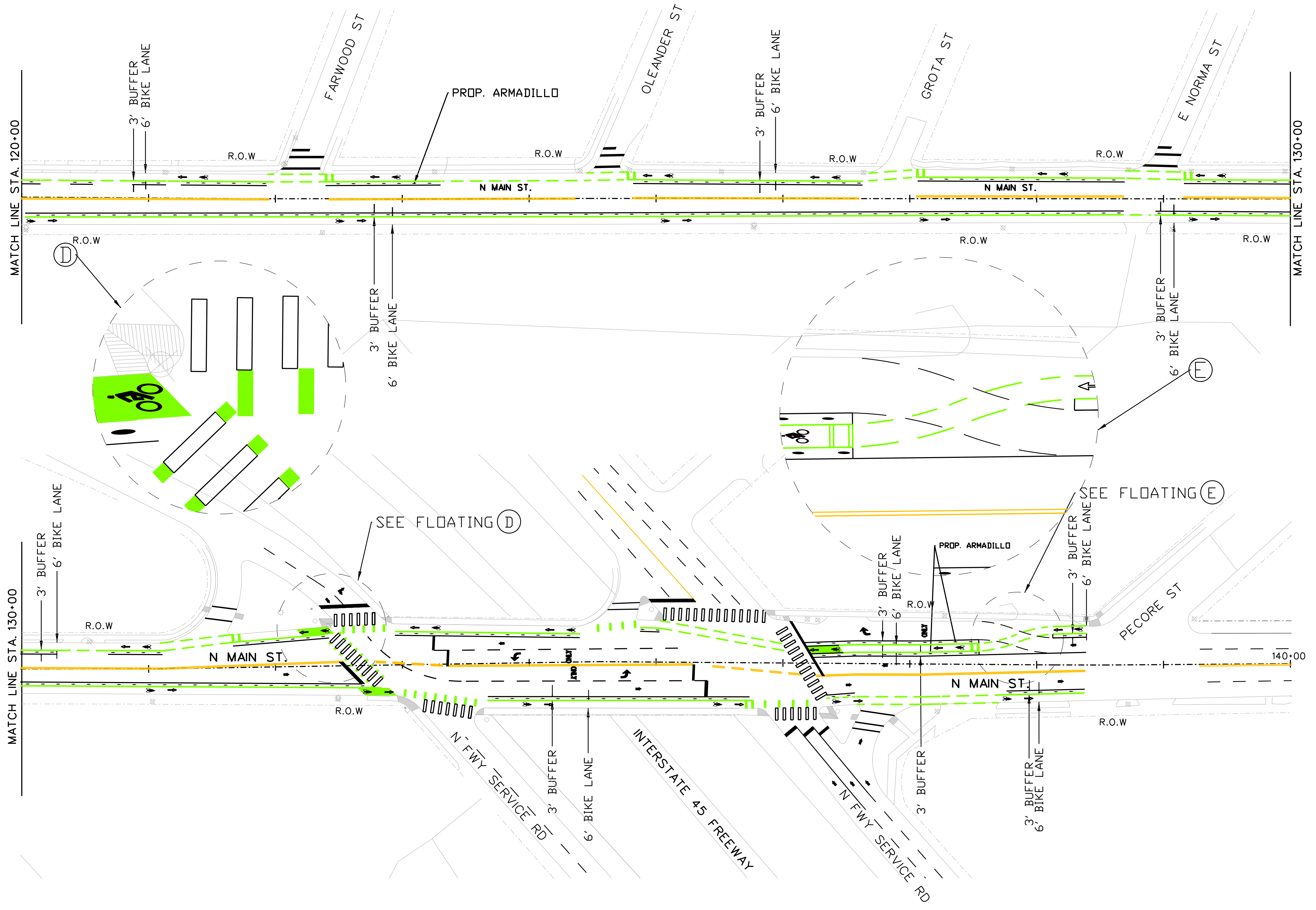
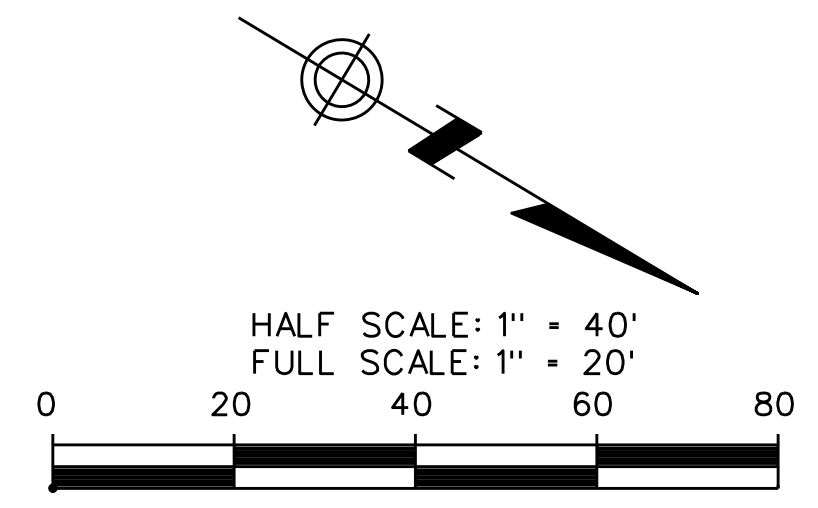
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 27 OF 28	



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\$TIMES\$
\$DATES\$

\$DATES\$ \$TIMES\$ \$FILES\$



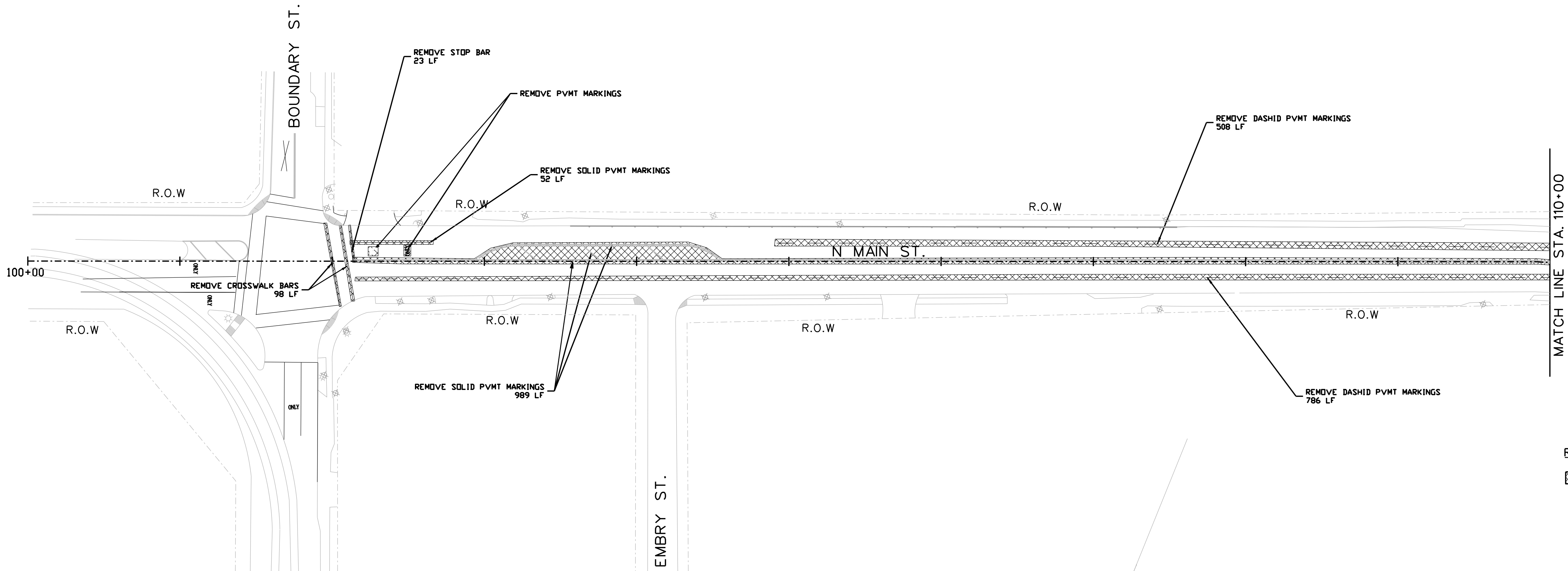
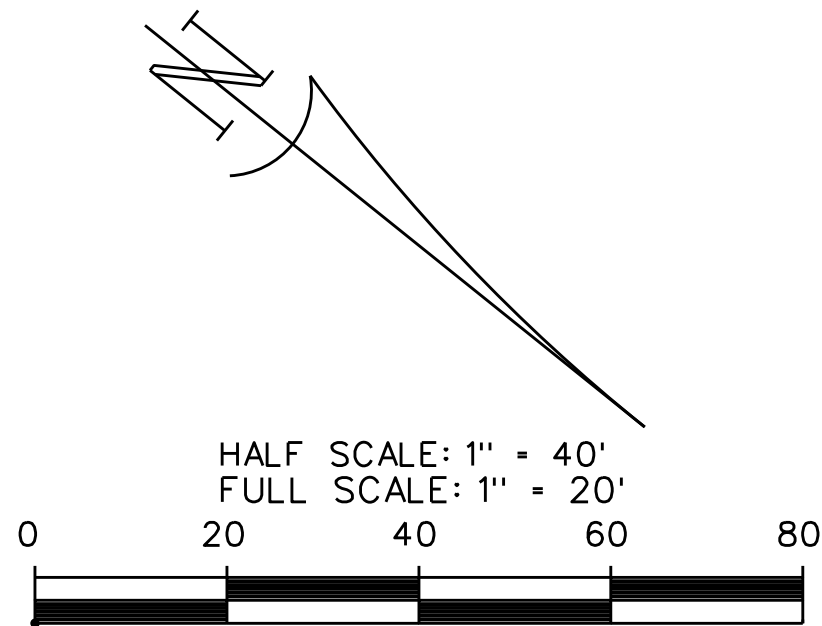
PROPOSED LEGEND

- PROP. BUFFER LANE
- PROP. BIKE LANE
- PROP. ARMADILLO

 ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 rd St., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574		PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS,LLC OCTOBER 15, 2020 NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
CITY OF HOUSTON HOUSTON PUBLIC WORKS		
N MAIN ST BIKE LANE STA 120+00 TO END PROJECT		
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY	
N-320610-0128-3		
DRAWING SCALE		
AS NOTED		
CITY OF HOUSTON PM		
PATRICIA K. CAMPBELL, P.E.		
SHEET NO. 28 OF 28		

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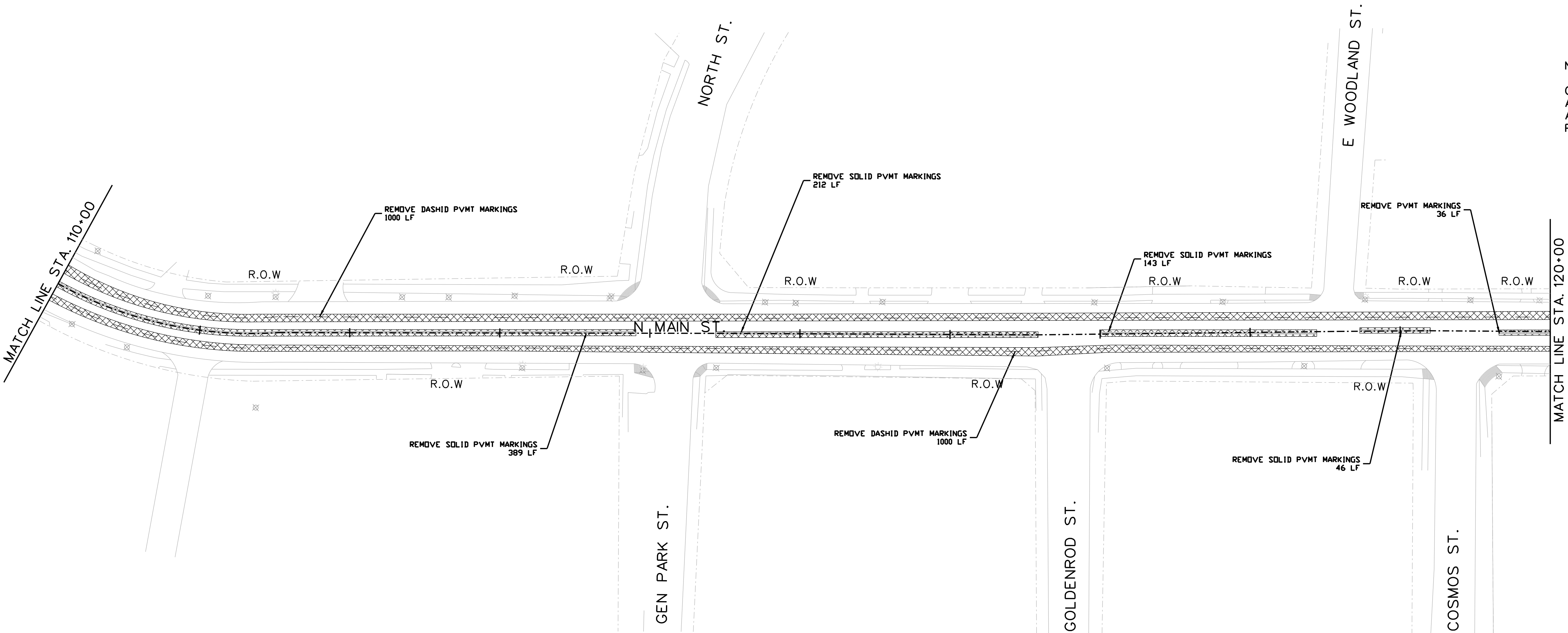


REMOVAL LEGEND:

 REMOVABLE AREA OF PVMT MARKINGS

NOTE:

CONTRACTOR SHAL COMPLETELY REMOVE ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKING DESIGN



AGS
ENGINEERING & CONSTRUCTION
Ally General Solutions, LLC
dba AGS Engineering & Construction
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Houston, TX 77092
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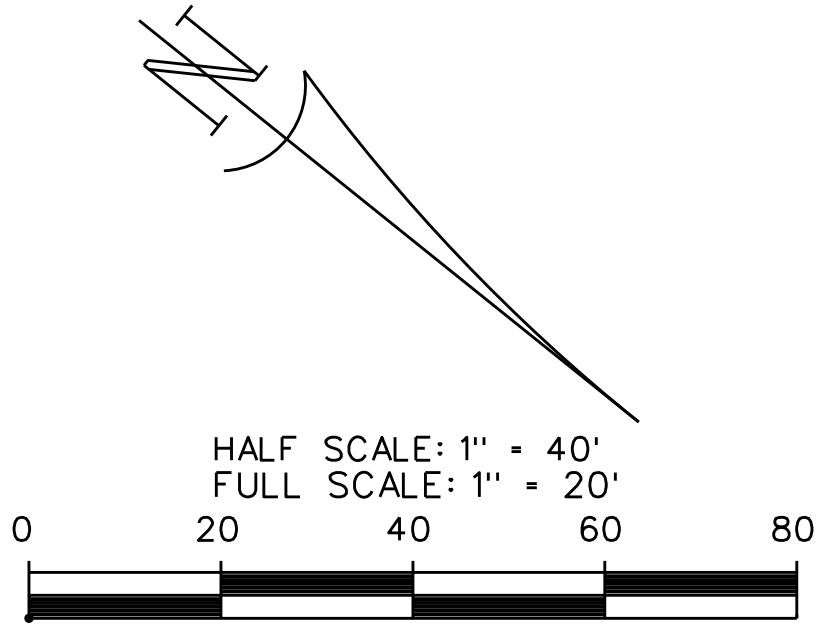
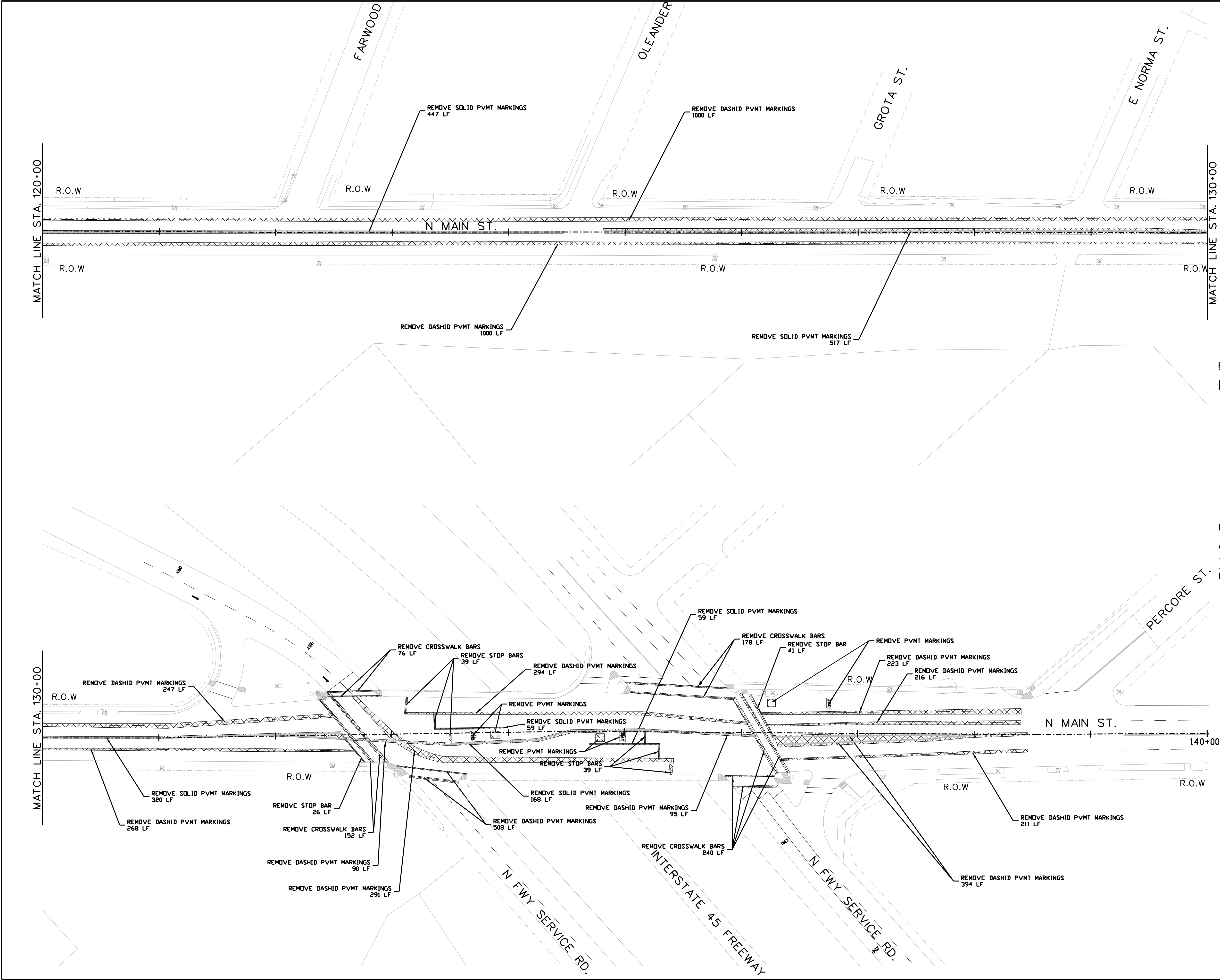
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OCTOBER 15, 2020

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST
DEMOLATION PLAN
BEGINNING OF THE PROJECT TO STA 120+00
SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 18 OF 28	



REMOVAL LEGEND:

 REMOVABLE AREA OF PVMT MARKINGS

NOTE:

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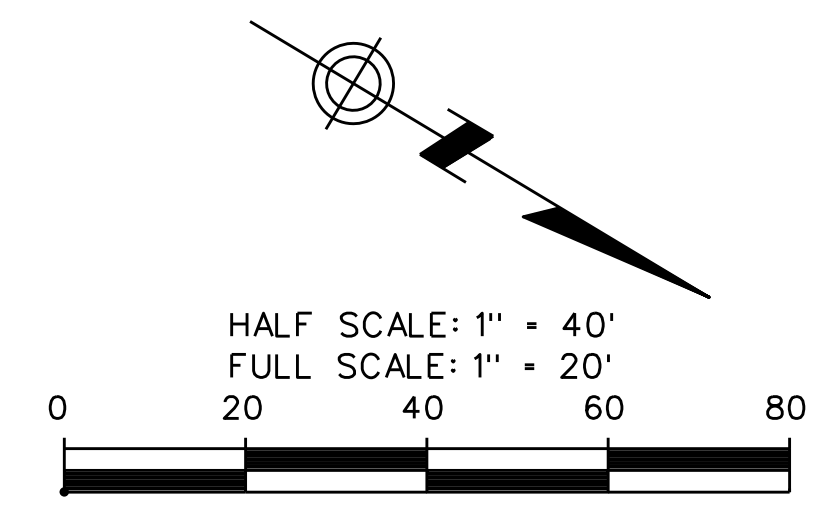
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST
DEMOLITION PLAN
STA 120+00 TO END OF THE PRJECT
SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 19 OF 28	



PROPOSED LEGEND:

- [A] PROP. PAV MARK WHITE 4" BROKEN
- [B] PROP. PAV MARK WHITE 6" SOLID
- [C] PROP. PAV MARK WHITE 12" SOLID
- [D] PROP. PAV MARK WHITE 24" SOLID
- [E] PROP. PAV MARK YELLOW 2-4" SOLD
- CENTERLINE
- [F] PROP. PAV MARK YELLOW 6" BROKEN
- [G] PROP. PAV MARK GREEN 6" SOLID
- [H] PROP. PAV MARK GREEN 6" BROKEN
- [I] PROP. PAV MARK ARROW
- [J] PROP. PAV MARK "ONLY" WORD
- [K] PROP. PAV MARK BIKE SYMBOL
- [L] PROP. PAV MARK BIKE ARROW
- [M] PROP. PAV MARK CROSSWALK WHITE SOLD 2 FT X 10 FT
- [N] PROP. PAV MARK GREEN SOLID CROSSBIKE 2 FT X 6 FT
- [O] PROP. PAV MARK GREEN SOLD TURNING AREA 6 FT X 25 FT
- [P] PROP. 2-12" GREEN SOLID
- [Q] EXISTING 12" CROSSWALK SOLID
- [R] EXISTING 24" STOP BAR

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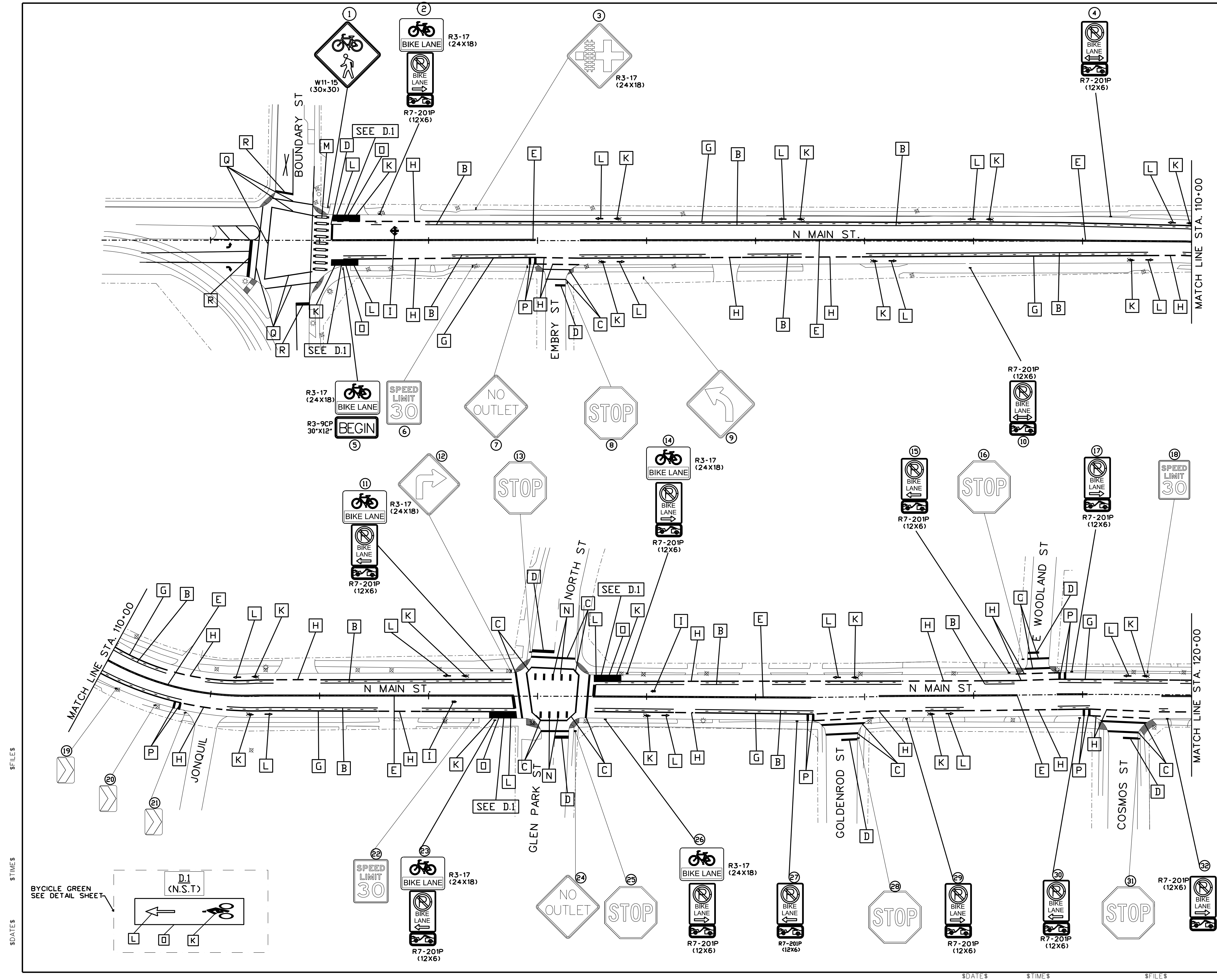
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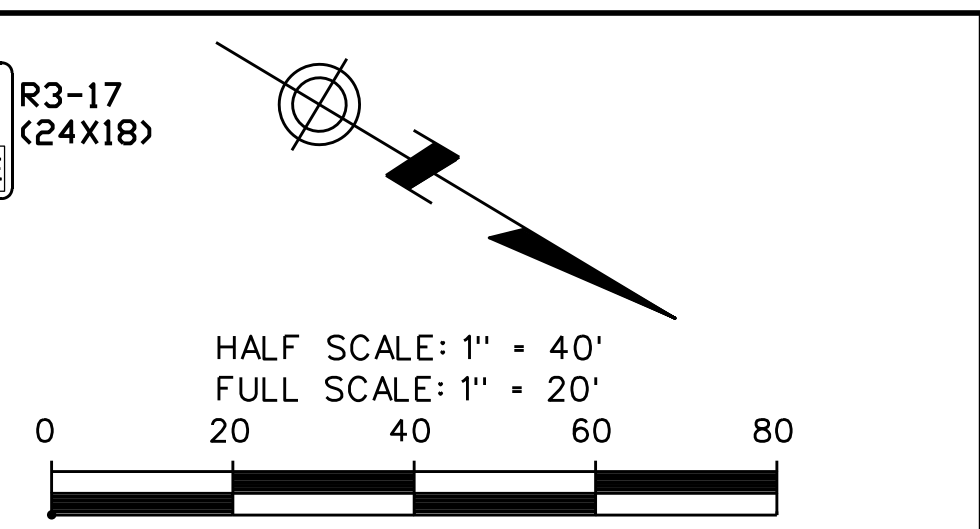
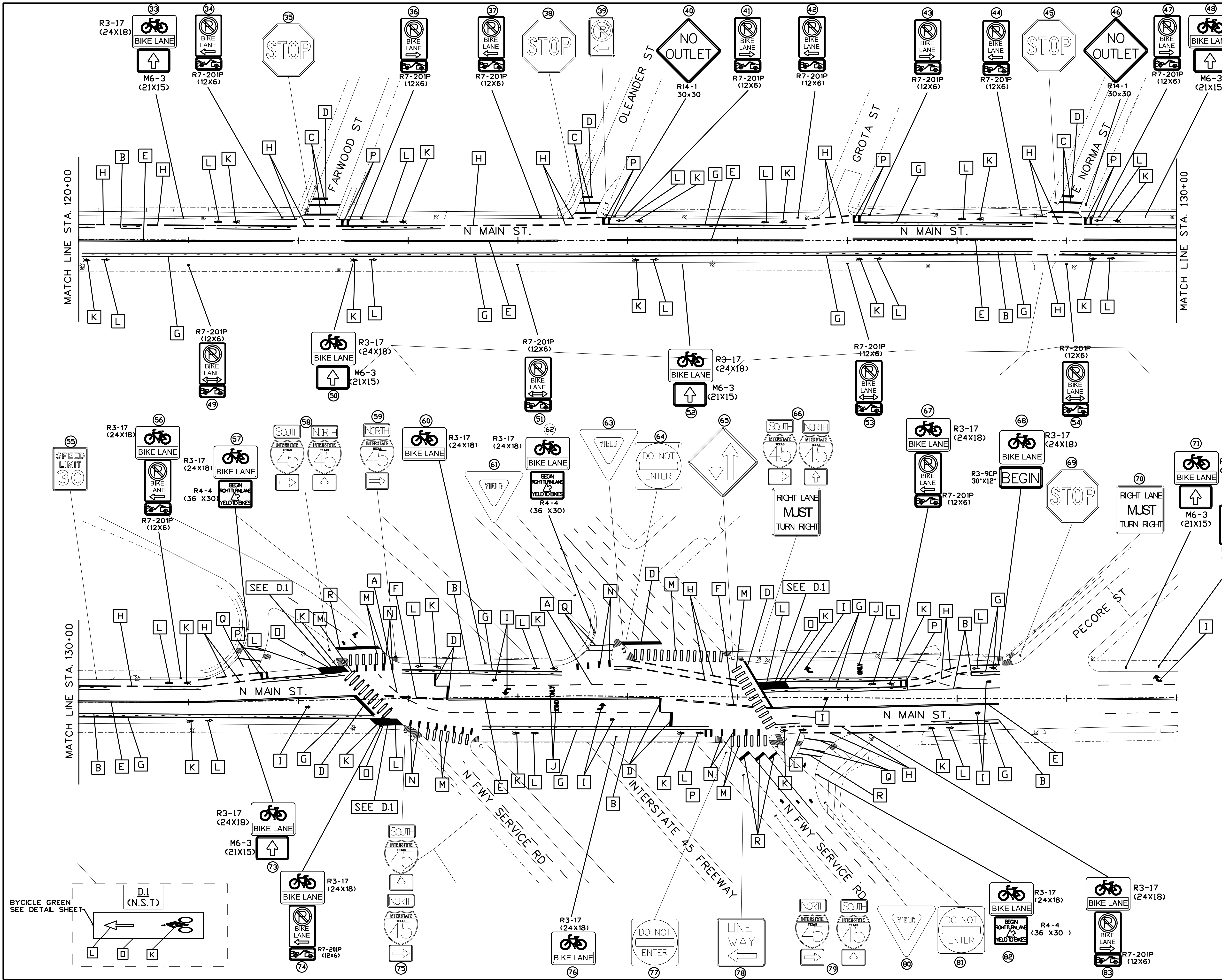
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST
SIGNS AND PAVEMENT MARKINGS
BEGIN PROJECT TO STA 120+00
SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 20 OF 28	





- PROPOSED LEGEND:
- [A] PROP. PAV MARK WHITE 4" BROKEN
 - [B] PROP. PAV MARK WHITE 6" SOLID
 - [C] PROP. PAV MARK WHITE 12" SOLID
 - [D] PROP. PAV MARK WHITE 24" SOLID
 - [E] PROP. PAV MARK YELLOW 2-4" SOLD
 - CENTERLINE
 - [F] PROP. PAV MARK YELLOW 6" BROKEN
 - [G] PROP. PAV MARK GREEN 6" SOLID
 - [H] PROP. PAV MARK GREEN 6" BROKEN
 - [I] PROP. PAV MARK ARROW
 - [J] PROP. PAV MARK "ONLY" WORD
 - [K] PROP. PAV MARK BIKE SYMBOL
 - [L] PROP. PAV MARK BIKE ARROW
 - [M] PROP. PAV MARK CROSSWALK WHITE SOLD 2 FT X 10 FT
 - [N] PROP. PAV MARK GREEN SOLID CROSSBIKE 2 FT X 6 FT
 - [O] PROP. PAV MARK GREEN SOLD TURNING AREA 6 FT X 25 FT
 - [P] PROP. 2-12" GREEN SOLID
 - [Q] EXISTING 12" CROSSWALK SOLID
 - [R] EXISTING 24" STOP BAR

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SURVEYED BY: AGS FB NO. NA			
CITY OF HOUSTON HOUSTON PUBLIC WORKS			
N MAIN ST SIGNS AND PAVEMENT MARKINGS STA 120+00 TO END PROJECT SHEET 2 OF 2			
WBS NUMBER N-320610-0128-3		FOR CITY OF HOUSTON USE ONLY	
DRAWING SCALE AS NOTED			
CITY OF HOUSTON PM PATRICIA K. CAMPBELL, P.E.			
SHEET NO. 21 OF 28			

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SUMMARY OF SIGNS					
PLAN SHEET.	SIGN NO.	SIGN NOMENCLATURE	SIGN TEXT	DIMENSIONS	REMOVE SIGN, POST & SALVAGE
	1	W11-15	BIKE CAN USE CROSSWALK	30X30	
	2	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	3	W10-2R	RAILROAD ADVANCE WARNING	24X18	
	4	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	5	R3-17	BIKE LANE	24X18	
		R3-9CP	BEGIN	30X12	
	6	R2-1	"30" SPEED LIMIT	12X18	
	7	W14-2	NO OUTLET	30X30	
	8	R1-1	STOP	48X48	
	9	W1-2L	CURVE (L)	24X30	
	10	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	11	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	12	W1-1	TURN	30X30	
	13	R1-1	STOP	48X48	
	14	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	15	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	16	R1-1	STOP	48X48	
	17	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	18	R2-1	"30" SPEED LIMIT	12X18	
	19	W1-8	CHEVRON	24X30	
	20	W1-8	CHEVRON	24X30	
	21	W1-8	CHEVRON	24X30	
	22	R2-1	XX SPEED LIMIT	12X18	
	23	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	24	W14-2	NO OUTLET	30X30	
	25	R1-1	STOP	48X48	
	26	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	27	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	28	R1-2	STOP	48X48	
	29	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	30	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	31	R1-1	STOP	48X48	
	32	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	33	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	34	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	35	R1-1	STOP	48X48	
	36	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	37	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	38	R1-1	STOP	48X48	
	39	R8-3	NO PARKING	24X24	
	40	W14-2	NO OUTLET	30X30	
	41	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	42	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	43	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	44	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	45	R1-1	STOP	48X48	
	46	W14-2	NO OUTLET	30X30	
	47	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	48	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	49	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	50	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	51	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	52	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	53	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	54	R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	55	R2-1	"30" SPEED LIMIT	12X18	
	56	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	57	R3-17	BIKE LANE	24X18	
		R4-4	BEGIN RIGHT LANE YEILD TO BIKES	36X30	

	58	M3-3	SOUTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW (L)	24X12	
		M3-1	NORTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW	24X12	
	59	M3-3	SOUTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW (R)	24X12	
	60	R3-17	BIKE LANE	24X18	
	61	R1-2	YEILD	30X30	
	62	R3-17	BIKE LANE	24X18	
		R4-4	BEGIN RIGHT LANE YEILD TO BIKES	36X30	
	63	R1-2	YEILD	30X30	
	64	R5-1	DO NOT ENTER	30X30	
	65	W6-3	TWO WAY TRAFFIC	36X36	
	66	M3-3	SOUTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW (R)	24X12	
		M3-1	NORTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW	24X12	
		R3-7	RIGHT LANE MUST TURN RIGHT	36X36	
	67	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	68	R3-17	BIKE LANE	24X18	
		R3-9CP	BEGIN	30X12	
	69	R1-1	STOP	48X48	
	70	R3-7	RIGHT LANE MUST TURN RIGHT	36X36	
	71	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	72	R3-5R	MANDATORY MOVE RIGHT	30X36	
	73	R3-17	BIKE LANE	24X18	
		M6-3	DIRECTIONAL ARROW	24X12	
	74	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	
	75	M3-3	SOUTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW	24X12	
		M3-1	NORTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW (R)	24X12	
	76	R3-17	BIKE LANE	24X18	
	77	R5-1	DO NOT ENTER	30X30	
	78	R6-1	ONEWAY	24X18	
	79	M3-1	NORTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW (R)	24X12	
		M3-3	SOUTH	24X12	
		M1-1	INTERSTAE "45"	24X24	
		M6-3	DIRECTIONAL ARROW	24X12	
	80	R1-2	YEILD	30X30	
	81	R5-1	DO NOT ENTER	30X30	
	82	R3-17	BIKE LANE	24X18	
		R4-4	BEGIN RIGHT LANE YEILD TO BIKES	36X30	
	83	R3-17	BIKE LANE	24X18	
		R7-201P	BIKE LANE/ TOW AWAY ZONE	12X6	



AGS
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CITY OF HOUSTON

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SAFETY IMPROVEMENTS

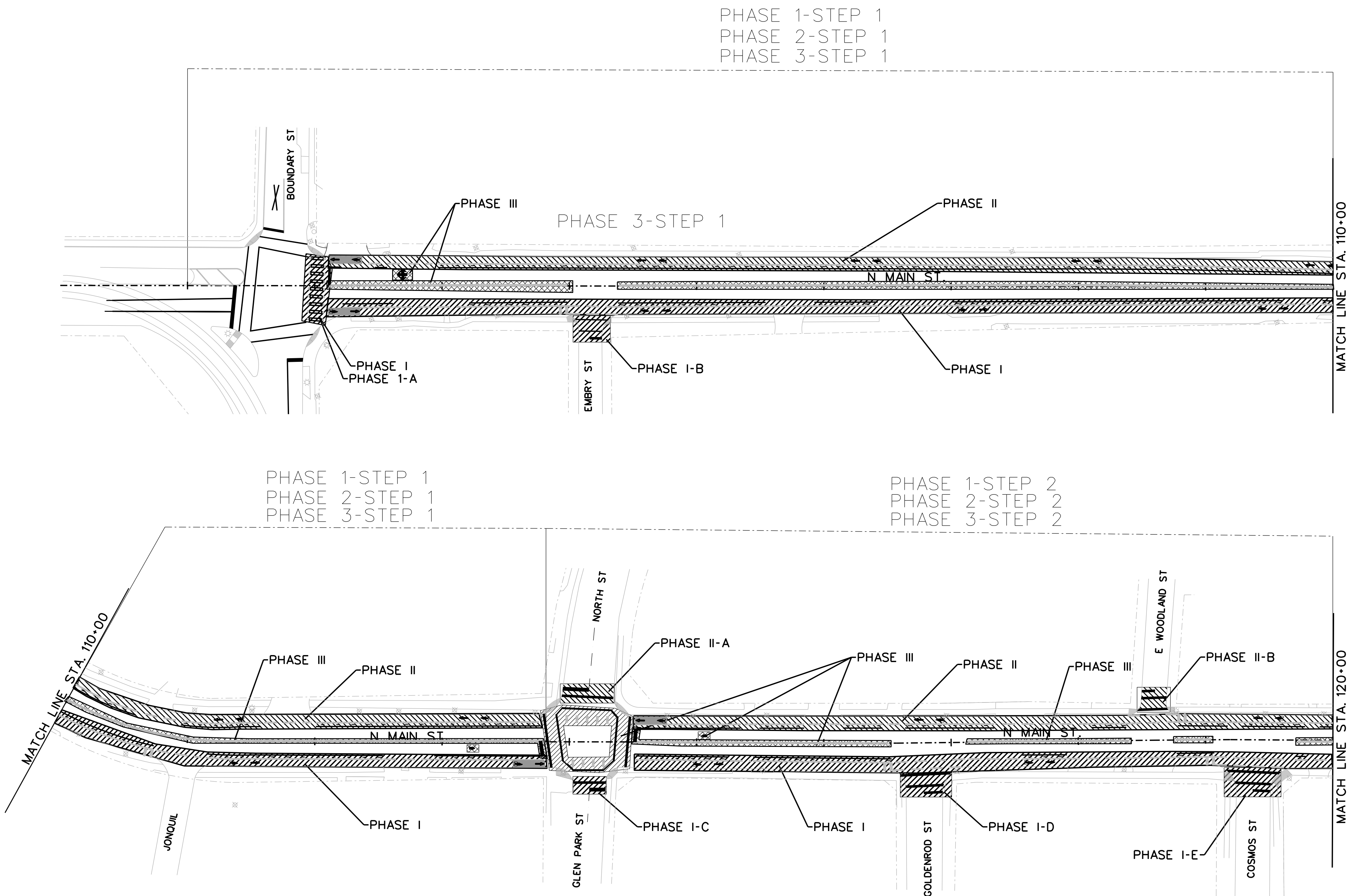
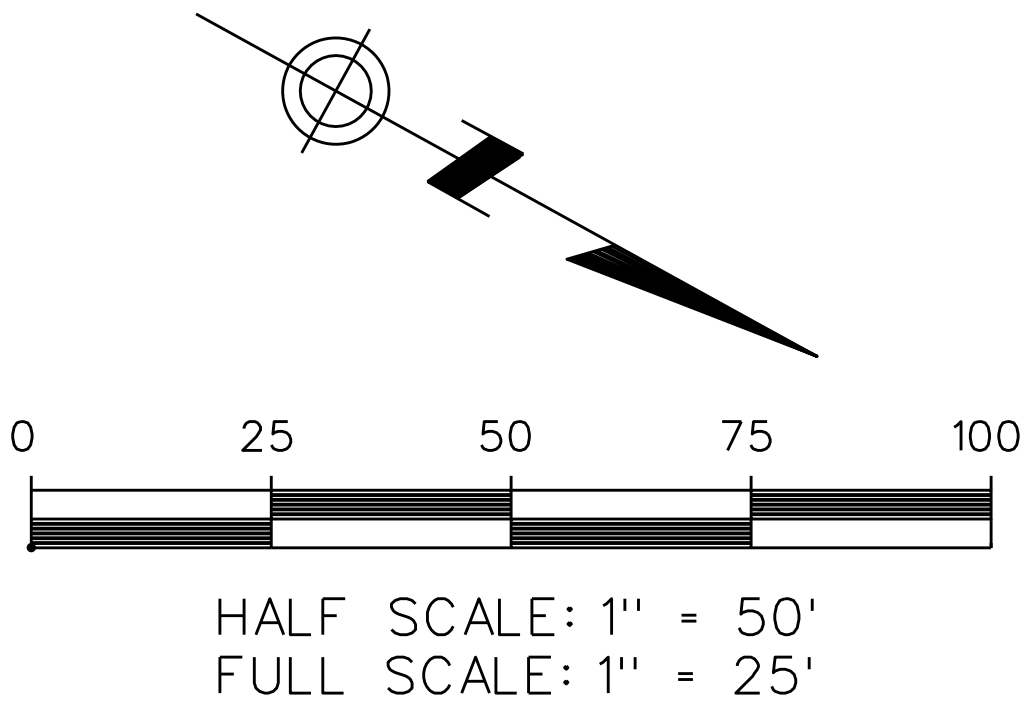
SIGNS SUMMARY

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N-320610-0128-3	
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CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 22 OF 28	

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LEGEND

	PROPOSED TCP PHASE I
	PROPOSED TCP PHASE II
	PROPOSED TCP PHASE III

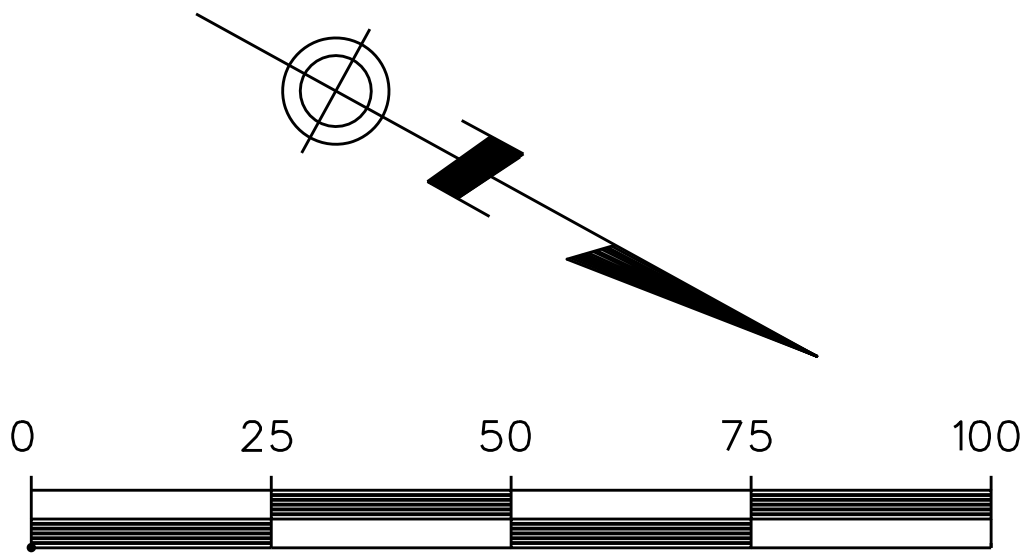
SEQUENCE OF WORK

CONTRACTOR REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKING ALONG NORTH MAIN ST AND CONSTRUCT NEW PAVEMENT MARKINGS BY PHASES AS SHOWN ON TCP PLAN.

PHASE 1,2,3
BETWEEN BOUNDARY ST AND PECORE ST

1. REMOVE ALL EXISTING PAVEMENT MARKINGS ALONG N MAIN ST REFER TO DEMOLATION PLAN
2. INSTALL PED/BIKE CROSSWALK PAVEMENT MARKINGS REFER THE BIKE LANE PLAN AND PAVEMENT MARKINGS PLAN
3. INSTALL GREEN BIKE LANE AND BIKE BUFFER LANE ALONG N MAIN ST REFER TO BIKE LANE PLAN
4. INSTALL ARMADILLO WITHIN THE BUFFER LANE
5. INSTALL YELLOW AND WHITE PAVEMENT MARKINGS, SOLID AND DASHED AS SHOWN IN PROPOSED PAVEMENT MARKING PLAN
6. INSTALL SIGNS ALONG THE N MAIN ST REFER TO PAVEMENT MARKING PLAN

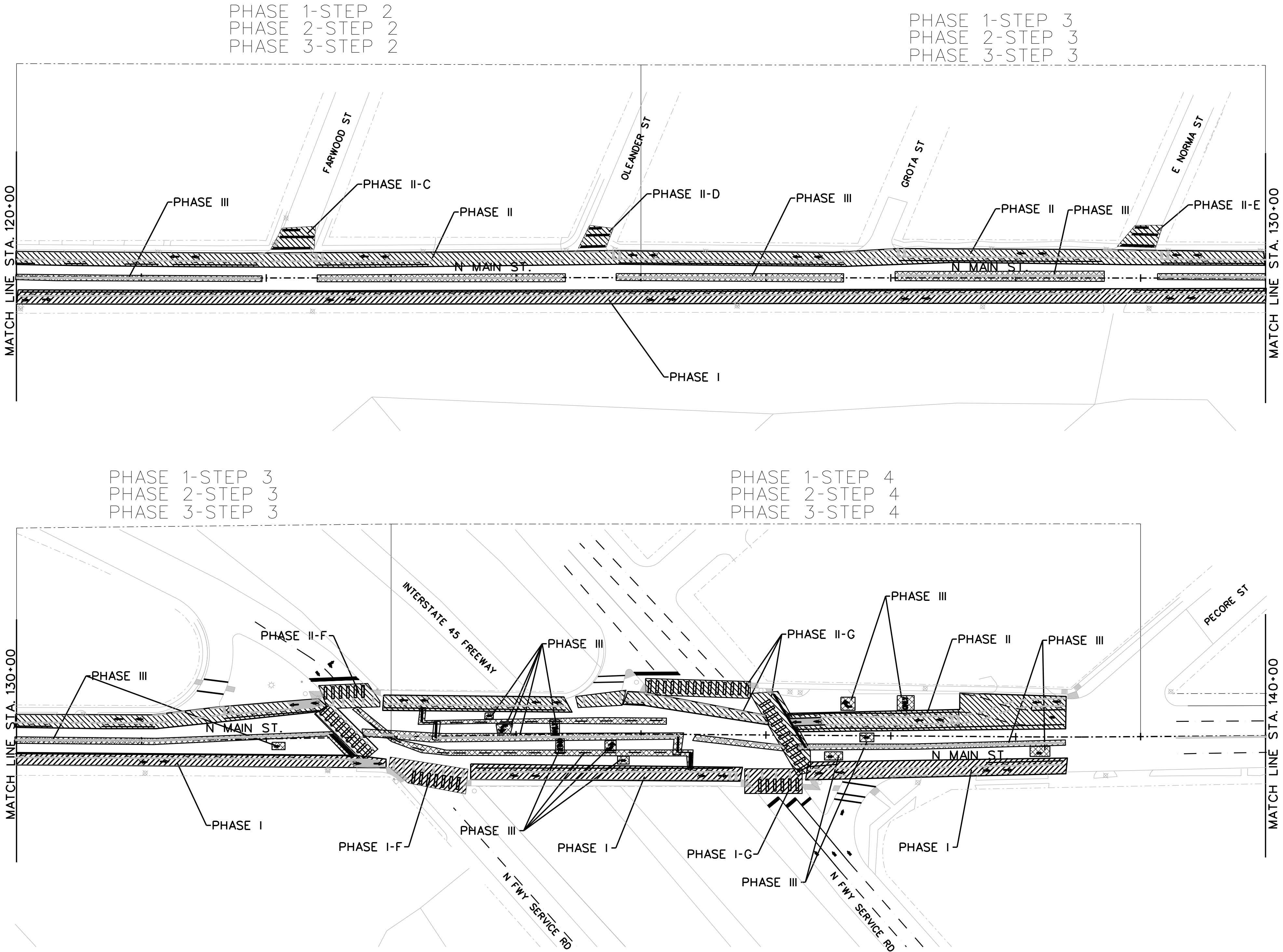
 ENGINEERING & CONSTRUCTION Ally General Solutions, LLC dba AGS Engineering & Construction 7070 W. 43 RD ST., Ste 203 Houston, TX 77092 Ph: (281) 888-7682 Texas Registration No. F-13574	PRELIMINARY SUBMITTED FOR 90% PRELIM REVIEW BY ROLANDO CASTANEDA P.E. TX 98276 ALLY GENERAL SOLUTIONS, LLC OCTOBER 15, 2020
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CITY OF HOUSTON HOUSTON PUBLIC WORKS	
N MAIN ST SAFETY IMPROVEMENTS TRAFFIC CONTROL PLAN BEGIN PROJECT TO STA 120+00	
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PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 23 OF 28	



HALF SCALE: 1" = 50'
FULL SCALE: 1" = 25'

LEGEND

- PROPOSED TCP PHASE I
- PROPOSED TCP PHASE II
- PROPOSED TCP PHASE III



SEQUENCE OF WORK

CONTRACTOR REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKING ALONG NORTH MAIN ST AND CONSTRUCT NEW PAVEMENT MARKINGS BY PHASES AS SHOWN ON TCP PLAN.

PHASE 1,2,3
BETWEEN BOUNDARY ST AND PECORE ST

1. REMOVE ALL EXISTING PAVEMENT MARKINGS ALONG N MAIN ST REFER TO DEMOLATION PLAN
2. INSTALL PED/BIKE CROSSWALK PAVEMENT MARKINGS REFER THE BIKE LANE PLAN AND PAVEMENT MARKINGS PLAN
3. INSTALL GREEN BIKE LANE AND BIKE BUFFER LANE ALONG N MAIN ST REFER TO BIKE LANE PLAN
4. INSTALL ARMADILLO WITHIN THE BUFFER LANE
5. INSTALL YELLOW AND WHITE PAVEMENT MARKINGS, SOLID AND DASHID AS SHOWN IN PROPOSED PAVEMENT MARKING PLAN
6. INSTALL SIGNS ALONG THE N MAIN ST REFER TO PAVEMENT MARKING PLAN

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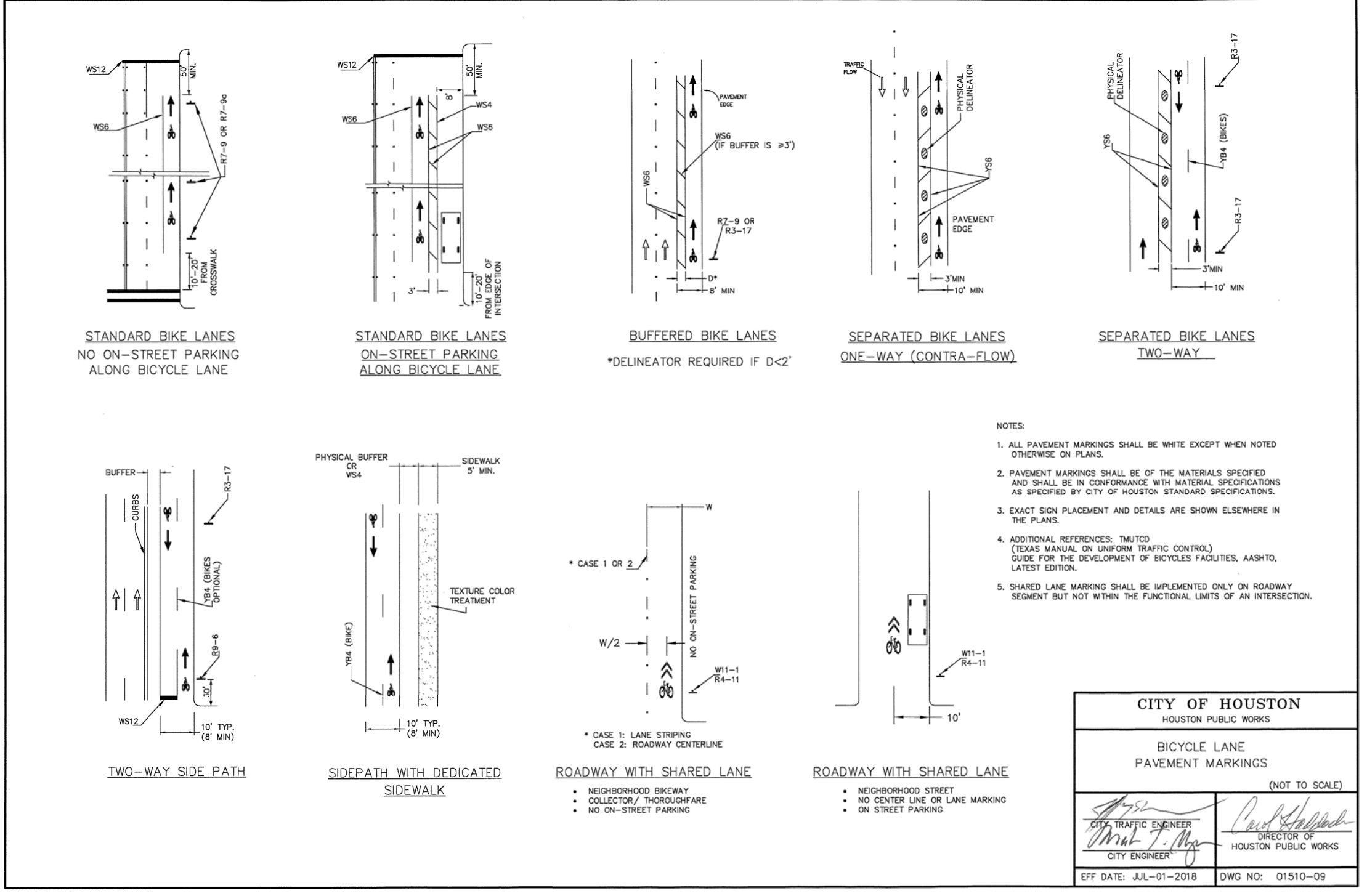
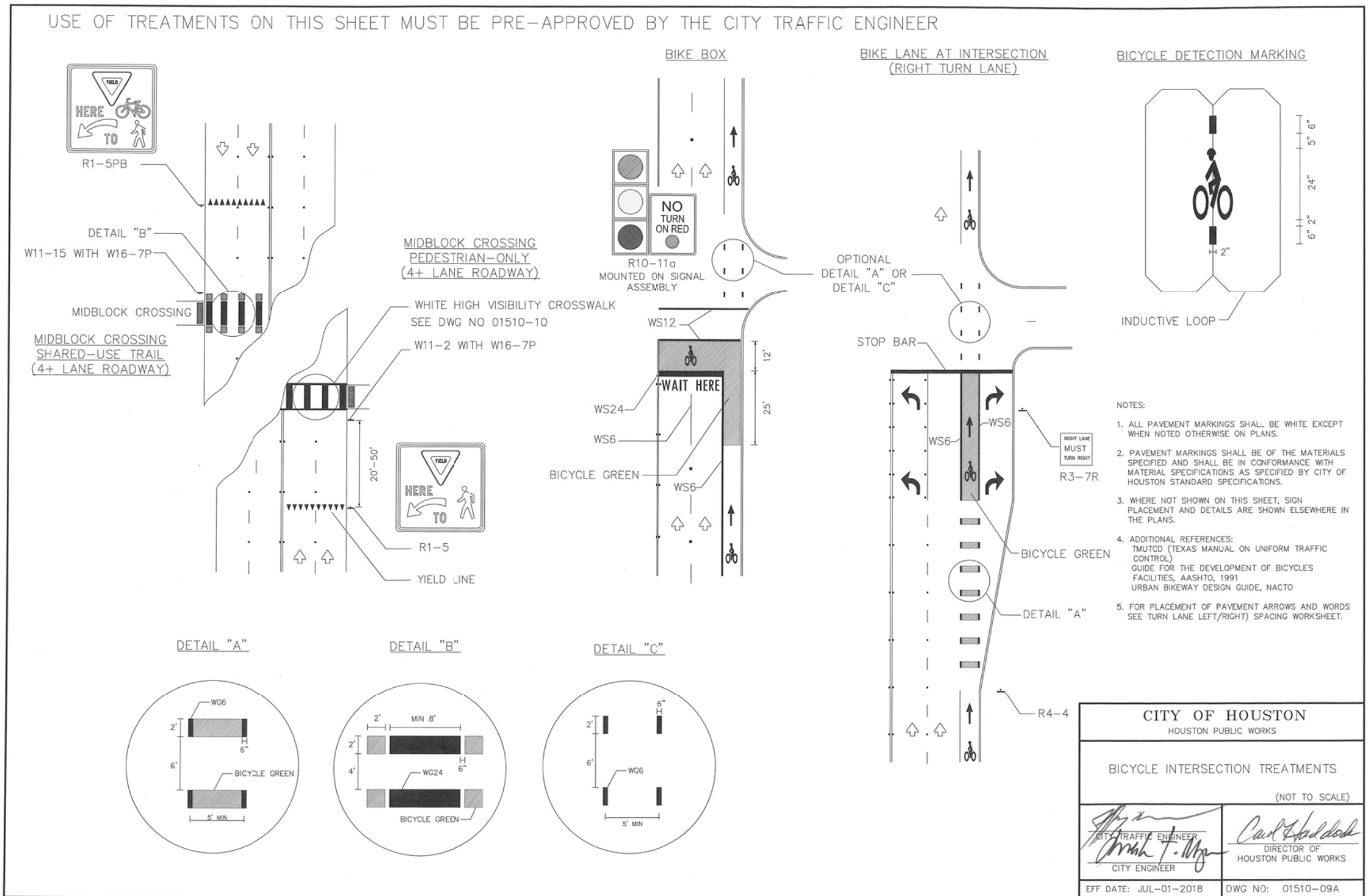
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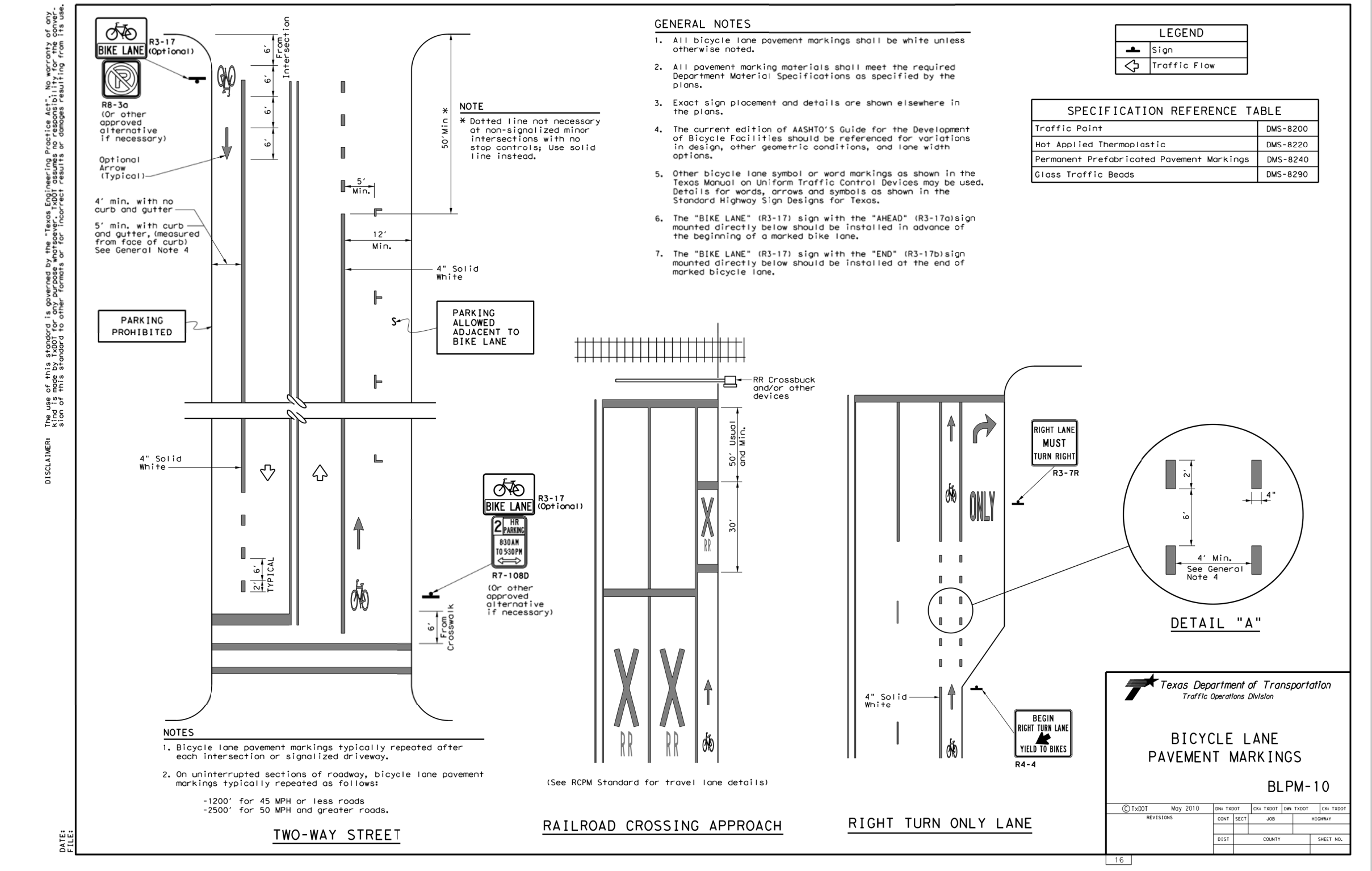
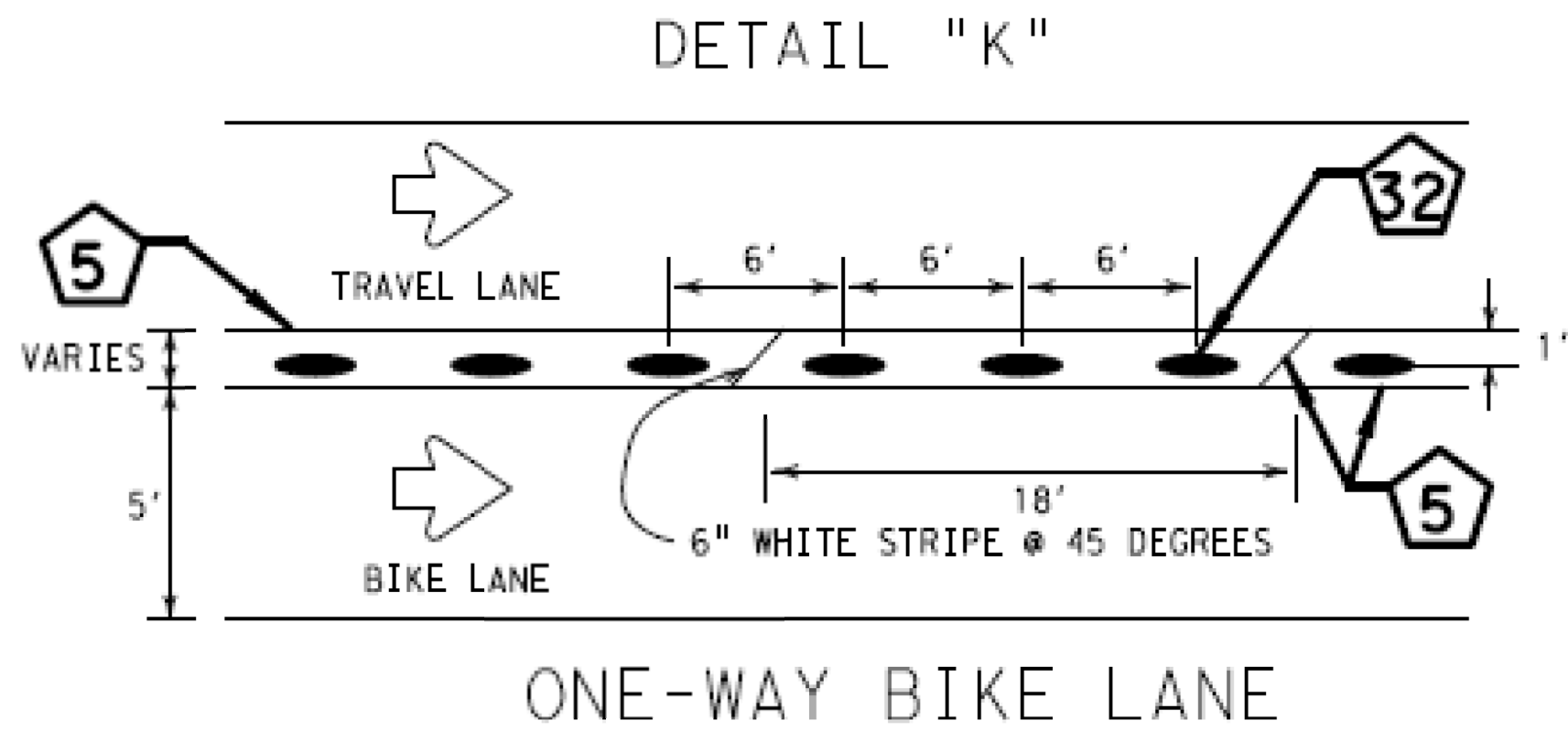
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

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SAFETY IMPROVEMENTS
TRAFFIC CONTROL PLAN
STA 120+00 TO END PROJECT

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CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 24 OF 28	



ARMADILLO BARRIERS



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FB NO. NA

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST

DETAILS SHEET
1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 25 OF 28	

GENERAL PAVEMENT MARKING NOTES:

- PRIOR TO START OF CONSTRUCTION, ALL EXISTING PAVEMENT MARKINGS WITHIN THE AREA OF CONSTRUCTION SHALL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING ALL EXISTING PAVEMENT MARKINGS AND LANE CONFIGURATIONS WILL BE DUPLICATED AGAIN. THIS REVIEW CAN BE DONE IN CONJUNCTION WITH SIGN INVENTORY. THE CONTRACTOR IS HELD ACCOUNTABLE FOR EXISTING AND TEMPORARY CONSTRUCTION PAVEMENT MARKINGS THROUGHOUT THE PROJECT AND AT THE PROJECT'S COMPLETION.
- ALL PAVEMENT MARKINGS SHALL CONFORM TO CITY OF HOUSTON STANDARDS AND SPECIFICATIONS AND GENERAL GUIDELINES OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
- THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
- THE DESIGN SPEED FOR THE ROAD IS ____ THE POSTED SPEED LIMIT IS ____.
- ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT MARKINGS AND SYMBOLS.
- THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.007) THICK HOT-SPRAYED THERMOPLASTIC PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE CITY TRAFFIC ENGINEER. ALL OTHER PAVEMENT MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE WATER BASED PAINT.
- ALL FINAL TRANSVERSE MARKINGS SHALL BE 90 MIL (0.007) HOT-SPRAYED THERMOPLASTIC. ALL PAVEMENT ARROWS AND LEGENDS SHALL ALSO BE 90 MIL (0.007) HOT-SPRAYED THERMOPLASTIC. PREFORMED THERMOPLASTIC APPLICATIONS MAY BE USED IF ONLY APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS OF FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE IMPLEMENTED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET SPACING. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY CITY OF HOUSTON REPRESENTATIVE PRIOR TO THE APPLICATION OF MATERIALS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET NO MORE THAN ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
- ALL PAIRED PAVEMENT MARKERS (RRPM) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR FACE OF EACH MARKER IS FACING THE APPROACHING TRAFFIC FLOW AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE TO CITY OF HOUSTON STANDARD SPECIFICATION 02762. APPLYING OVER EXISTING PAVEMENT MARKINGS DOES NOT CONSTITUTE AS APPROVED OBLITERATION METHOD.
- THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT OF PAVEMENT MARKING PLANS WITHIN 30 DAYS AFTER COMPLETION OF PAVEMENT MARKING IMPLEMENTATION.
- BLUE SPINK MAY BE PLACED ADJACENT TO FIRE HYDRANTS WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
- FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID BY THE PROJECT OWNER/DEVELOPER.
- FINAL INSPECTION AND ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY TRANSPORTATION & DRAINAGE OPERATION REPRESENTATIVE (713-803-3054).

Description and Application of Pavement Marking Lines				
Line Series	Color	Description	Width Inches	Typical Applications
WB	White	Broken (10' stripe w/ 30' gap)	4"	- Lane lines between travel lanes in the same direction where changing of lanes is permitted.
WS	White	Solid	4"	- Edge lines to delineate the right edge of the roadway.
			6"	- Left edge of bicycle lane and lane lines between travel lanes in the same direction where changing of lanes is discouraged.
			12"	- Perpendicular crosswalk lines.
			24"	- Stop bars at intersections (signalized and unsignalized).
WG	White	Guide (2' stripe w/ 6' gap)	6"	- Diagonal hatching used in gore between same direction of travel lanes.
			12", 24"	- Hatching at high visibility crosswalks.
YS	Yellow	Solid	6"	- Guide lines through intersections.
			4"	- Taper lines for turn lanes.
YDS	Yellow	Double Solid	4"	- Edge lines to delineate the left edge of a divided roadway, a one-way road, or ramp.
			12", 24"	- Diagonal hatching used in gore between opposing direction of travel lanes.
YDB	Yellow	Double Broken	4" - (4") - 4" (gap)	- Centerline that separates opposing travel lanes and delineation of median islands.
YB	Yellow	Broken (10' stripe w/ 30' gap)	4"	- Defines the edges of center reversible lanes that are used as TWLTLs during intermittent periods.
YB (BIKE)	Yellow	Broken (3' stripe w/ 9' gap)	4"	- Separates travel lanes in opposite directions where passing is permitted in both directions of travel.
YSB	Yellow	Solid & Broken	4" - (4") - 4" (gap)	- Separates bicycle travel lanes in opposite directions where passing is permitted in both directions of travel.
				- Separates travel lanes in opposite directions where passing is permitted in one direction and prohibited in the opposite direction.
BICYCLE GREEN	Green	Solid Colored Pavement	Varies	- Used for edge of two-way left-turn lanes (TWLTL).
YIELD LINE	White	Triangle	16" x 24"	- Ped/Bike crossing
				- Vehicle / Bike/ Conflict Area
				- Mid-Block crossing

Description and Application of Reflective Raised Pavement Markers (RRPM)				
RRPM Types	Color	COH Spec. Sec. 02764 Equivalent	Description	
C	Clear	Type I-C	- Approach face that reflects white light, and the other side does not reflect.	
R	Clear & Red	Type II-C-R	- Approach face that reflects white light, and the other side reflects red light.	
A	Amber & Amber	Type II-A-A	- Approach face and the other side both reflect amber light.	

Line Style Designation: YSB4 - AD/AAD

Color: _____

Pattern: _____

Width of stripe: _____

RPM spacing: _____

RPM type: _____

RPM spacing: _____

RPM Type: _____

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

GENERAL NOTES
AND LEGENDS

(NOT TO SCALE)

[Signature]
CITY TRAFFIC ENGINEER
CITY ENGINEER

[Signature]
DIRECTOR OF
HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018 DWG NO: 01510-01

NOTES FOR PAVEMENT MARKINGS "SYMBOLS" AND "ARROWS":

- MINIMUM 8 FOOT WHITE MARKINGS SHALL BE USED, UNLESS OTHERWISE NOTED. IF MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE PLACED WITH FIRST WORD NEAREST THE DRIVER.
- THESE DETAILS ARE STANDARD SIZE FOR NORMAL INSTALLATION. SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD DEPENDING ON CONDITIONS. SPECIAL PERMISSION NEEDED BY CITY TRAFFIC ENGINEER FOR REDUCTION BELOW ONE-THIRD OF STANDARD SIZES.
- THE LONGITUDINAL SPACE BETWEEN MARKINGS SHOULD BE 30 FEET, OR AS INDICATED ON THE PLANS.
- MARKINGS CONSIDERED APPROPRIATE FOR USE WHEN WARRANTED INCLUDE THE FOLLOWING:
 - REGULATORY
STOP
RIGHT (LEFT) TURN ONLY, SYMBOL, ARROWS.
 - WARNING
STOP AHEAD
SCHOOL AHEAD
SCHOOL X-ING
PED X-ING
B X-ING (SEE SHEET 01510-08 DETAILS)
OTHER WORDS OR SYMBOLS MAY BE NECESSARY UNDER CERTAIN CONDITIONS. SPECIAL PERMISSION NEEDED BY CITY TRAFFIC ENGINEER FOR SPECIAL CONDITIONS.
- UNCONTROLLED USE OF PAVEMENT MARKINGS CAN RESULT IN DRIVER CONFUSION. WORD AND SYMBOL MARKINGS SHOULD BE NO MORE THAN THREE LINES.
- THE WORD "STOP" SHALL NOT BE USED ON THE PAVEMENT UNLESS ACCOMPANIED BY A STOP LINE AND STOP SIGN. THE WORD "STOP" SHALL NOT BE PLACED ON THE PAVEMENT IN ADVANCE TO A STOP LINE, UNLESS EVERY VEHICLE IS REQUIRED TO STOP AT ALL TIMES (ALL-WAY STOP).
- PAVEMENT MARKINGS SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH, WITH SCHOOL MESSAGES BEING THE EXCEPTION FOR DETAILS OF SCHOOLS AND SCHOOL CROSSING PAVEMENT MARKINGS REFER TO PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- SPACING BETWEEN STANDARD SIZE LETTERS SHOULD BE 4 INCHES (MIN). THE WIDTH OF NON-STANDARD SIZE LETTERS MAY VARY DEPENDING ON THE WIDTH OF THE TRAILER LINES. APPROVAL BY CITY TRAFFIC ENGINEER. SPECIAL PERMISSION NEEDED FOR NON-STANDARD SIZE "LETTER" AND/OR "ARROWS".
- LANE-USE ARROW MARKINGS MAY BE USED TO CONVEY OTHER GUIDANCE OR MANDATORY MESSAGES. SINGLE TURN ARROWS USED TO CONVEY A MANDATORY MOVEMENT MUST BE ACCOMPANIED STANDARD SIDE AND THE PAVEMENT MARKING WORD "ONLY".
- PAVEMENT MARKINGS ARE TO BE LOCATED AS SPECIFIED IN THE DESIGN PLANS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD PAVEMENT
MARKING - SYMBOLS

(NOT TO SCALE)

[Signature]
CITY TRAFFIC ENGINEER
CITY ENGINEER

[Signature]
DIRECTOR OF
HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018 DWG NO: 01510-04

FOUR LANES WITH SHOULDERS

MULTI - LANES

MULTI - LANE WITH MEDIAN

TWO LANES

FOUR LANES

EXCLUSIVE PEDESTRIAN PHASE

INTERSECTION WITH RIGHT - TURN ISLANDS

HIGH-VISIBILITY CROSSWALK DETAIL

SEE DETAIL "A"

DETAIL "A"

NOTES:

- CROSSWALKS AND STOP LINES SHALL BE WHITE.
- "D" IS EQUAL TO ONE HALF THE WIDTH OF TRAVEL LANE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TYPICAL CROSSWALK
DETAILS

(NOT TO SCALE)

[Signature]
CITY TRAFFIC ENGINEER
CITY ENGINEER

[Signature]
DIRECTOR OF
HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018 DWG NO: 01510-10

TRUCKS

NEXT

YIELD

MERGE

EXIT

STOP

ONLY

SCHOOL

SIGNAL

TURN

LANE

ENDS

PED

ZONE

AHEAD

RIGHT

LEFT

ROUTE

X-ING

1234567890

MPH

BUS

HERE

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD PAVEMENT
MARKING - (WORDS)

(NOT TO SCALE)

[Signature]
CITY TRAFFIC ENGINEER
CITY ENGINEER

[Signature]
DIRECTOR OF
HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018 DWG NO: 01510-03

AGS
ENGINEERING & CONSTRUCTION
Ally General Solutions, LLC
dba AGS Engineering & Construction
7070 W. 43RD SUITE 203
HOUSTON, TX 77092
Ph: (281) 888-7682
Texas Registration No. F-13574

PRELIMINARY
SUBMITTED FOR
90% PRELIM REVIEW BY
ROLANDO CASTANEDA
P.E. TX 98276
ALLY GENERAL SOLUTIONS,LLC
OCTOBER 15, 2020

SURVEYED BY: AGS
FB NO. NA

NOT FOR CONSTRUCTION,
BIDDING OR PERMITTING

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

N MAIN ST

DETAILS SHEET
2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-320610-0128-3	
DRAWING SCALE	
AS NOTED	
CITY OF HOUSTON PM	
PATRICIA K. CAMPBELL, P.E.	
SHEET NO. 26 OF 28	