



# CITY OF ANN ARBOR ENGINEERING

## HEALTHY STREETS PROGRAM

**S. MAIN STREET - STADIUM BLVD. TO WILLIAM ST.  
PACKARD STREET - STATE ST. TO HILL ST.  
PACKARD STREET - EISENHOWER PKWY. TO US-23**

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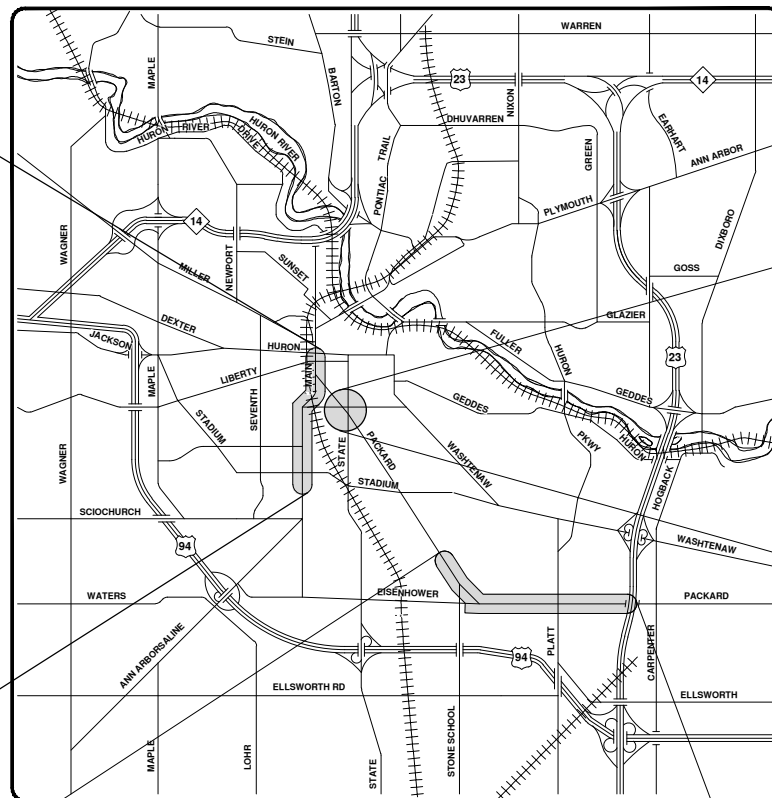
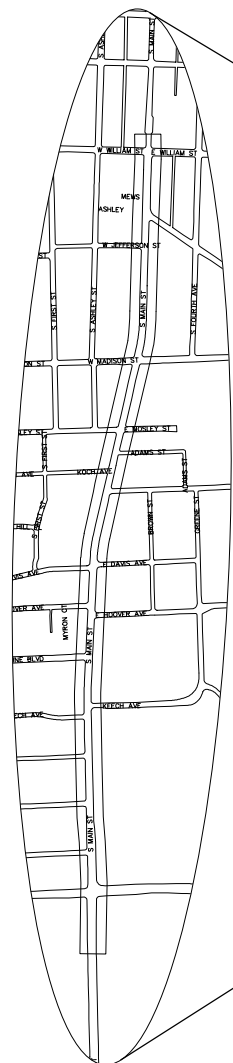
**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

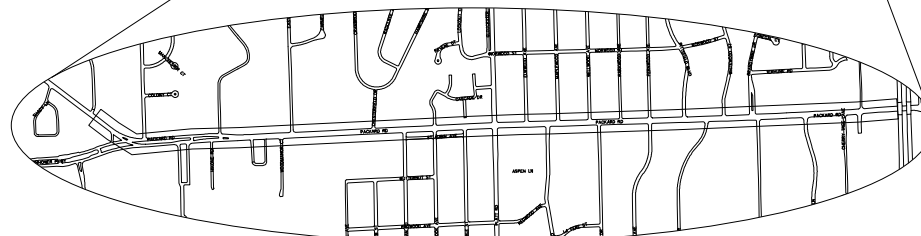
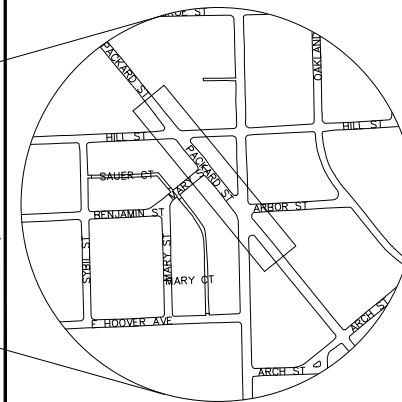
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.


THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING REFERENCED MDT PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



VICINITY MAP



PREPARED BY:  <b>HUBBELL, ROTH &amp; CLARK, INC</b> CONSULTING ENGINEERS SINCE 1915		PREPARED UNDER THE SUPERVISION OF COLLEEN HILL-STRAMSAK, P.E., PTOE, RSP1 PROJECT MANAGER		CITY APPROVAL CYRUS NAHEEDY, P.E. PROJECT MANAGER	
555 HULET DRIVE BLOOMFIELD HILLS, MI.		P.O. BOX 824 48303 - 0824		DATE _____ DATE _____	



01	REV.	DESCRIPTION	DATE	DRAWN	CHECKED
		FINAL PLANS TO CITY	4/06/2021	CGV	GH

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROGRAM  
PROJECT DESCRIPTION AND LIMITS

SCALE	NTS
DRAWING No.	c/01.dwg
SHEET No.	1 of 22

**EXISTING LEGEND**

- ⊕ FIRE HYDRANT
- I GATE VALVE IN BOX
- ⊙ GATE VALVE IN WELL
- ⊙ STOP BOX
- ⊠ WATER VAULT
- ⊙ WELL
- CATCH BASIN (SQ)
- ⊙ CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- ) END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- ⊕ PEDESTRIAN SIGNAL
- † SIGN
- HAND HOLE
- ⊕ ORNAMENTAL LIGHT
- ⊕ FLOOD LIGHT
- ⊙ UNKNOWN MANHOLE
- ⊙ TELEPHONE MANHOLE
- ⊠ TELEPHONE RISER
- ⊙ GAS VALVE
- GAS VENT
- ⊠ GAS BOX
- ⊠ ELECTRICAL RISER
- ⊠ TRANSFORMER
- ⊕ UTILITY POLE
- LAMP POLE
- ▷ GUY ANCHOR
- GUY POLE
- ⊙ MONITORING WELL
- ⊠ MAILBOX
- ⊙ SOIL BORING
- △ TRAVERSE POINT
- ⊕ BENCH MARK
- IRON PIPE
- MON BOX

- W — WATER MAIN
- - - - - WATER MAIN ABANDONED
- - - - - STORM SEWER
- - - - - STORM SEWER ABANDONED
- - - - - SANITARY SEWER
- - - - - SANITARY SEWER ABANDONED
- - - - - GAS MAIN
- - - - - GAS MAIN (DEAD)
- - - - - ELECTRICAL OVER HEAD
- - - - - ELECTRICAL UNDER GROUND
- - - - - e duct bank ELECTRICAL DUCT BANK
- - - - - . oht . . oht . TELEPHONE OVER HEAD
- - - - - . t . . t . TELEPHONE UNDER GROUND
- - - - - t duct bank TELEPHONE DUCT BANK
- - - - - ohtv CABLE TV OVER HEAD
- - - - - tv CABLE TV UNDER GROUND
- - - - - fo FIBER OPTIC
- - - - - fo duct bank FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- - - - - 800 CONTOUR MAJOR
- - - - - 799 CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- // // // // FENCE
- : - : - : - : GRAVEL
- • - • - • - • GUARDRAIL
- ○ - ○ - ○ - ○ STONE WALL
- - - - - R.O.W.
- - - - - TREELINE
- - - - - WETLAND
- - - - - EDGE OF BRUSH
- - - - - HEDGE

- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10

**PROPOSED LEGEND**

- ⊕ HYDRANT (PLAN)
- ⊙ WATER GATE WELL
- ▽ REDUCER
- I WATER GATE VALVE
- WATER STOP BOX
- ⊠ WATER VAULT
- INLET
- ⊠ DOUBLE INLET
- INLET JUNCTION CHAMBER
- ⊙ ROUND CATCH BASIN
- STORM MANHOLE
- ▷ DRAIN ARROW
- ▷ FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- BARREL
- ▽ SIGN
- PUSH BUTTON
- HAND HOLE
- ▨ LANE SEPARATOR
- W — WATER MAIN
- - - - - R — STORM SEWER
- - - - - S — SANITARY SEWER
- - - - - FO — FIBER OPTIC
- - - - - E — ELECTRICAL
- - - - - CENTERLINE OF DITCH
- - - - - CENTERLINE OF ROAD
- : - : - : FENCE
- : - : - : GRAVEL
- □ - □ - SILT FENCE
- • - • - PROTECTIVE FENCE
- - - - - GUARDRAIL
- - - - - LOT/UNIT
- - - - - CURB
- - - - - TEMPORARY GRADING PERMIT
- - - - - 800 CONTOUR MAJOR
- - - - - 799 CONTOUR MINOR
- - - - - WATER EASMENT
- - - - - STORM EASEMENT
- - - - - SANITARY EASEMENT
- - - - - R.O.W.
- - - - - LIMITS OF CONSTRUCTION
- - - - - LIMIT OF GRADING
- - - - - STONE WALL

- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED

Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION
01	4/06/2021	FINAL PLANS TO CITY
		DRAWN
		CHECKED

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 LEGEND

SHEET No. 2 of 22  
 SCALE NTS  
 DRAWING No. Legend01.dwg

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8667  
 ANN ARBOR 734-784-4410  
 www.a2gov.org

**GENERAL NOTES:**

1. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION EXCEPT AS NOTED HEREIN AND IN THE PROPOSAL BOOK OR DIRECTED OTHERWISE BY ENGINEER.
2. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.
3. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE LOCAL FIRE AND POLICE DEPARTMENTS 24 HOURS IN ADVANCE OF CONSTRUCTION OR AS DIRECTED BY ENGINEER, WHICHEVER IS MORE CONSERVATIVE.
4. THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL NOTIFY THE CITY OF ANN ARBOR APPLICABLE DEPARTMENTS 7 WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL WORK SHALL BE CLOSELY COORDINATED WITH THE CITY OF ANN ARBOR. IN ADDITION, 48 HOURS ADVANCED NOTIFICATION IS REQUIRED FOR ANY ROAD CLOSURES OR CHANGES IN CONSTRUCTION STAGING.
5. THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL NOTIFY "MISS DIG" 3 WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
6. CONTRACTOR TO PROTECT EXISTING ABOVE GROUND AND BELOW GROUND FACILITIES INCLUDING: UTILITIES, POLES, TREES, SHRUBS AND OTHER VEGETATION UNLESS NOTED IN THE PLANS OR DIRECTED BY ENGINEER; AND SHALL REPAIR OR REPLACE DAMAGE FACILITIES AT NO COST TO THE OWNER.
7. CONTRACTOR SHALL PROTECT ALL SITE FEATURES SUCH AS PLANTERS, MAIL BOXES, FENCES, LANDSCAPING, WALLS, WALKS, PORCHES, ETC, AND RESTORE TO ORIGINAL CONDITION IF DAMAGED EXCEPT AS NOTED. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS WORK.
8. ALL CONSTRUCTION STAGING AREAS SHALL BE APPROVED BY PROJECT ENGINEER AND CITY OF ANN ARBOR PRIOR TO START OF CONSTRUCTION. ANY AREAS BEYOND CONSTRUCTION RIGHTS-OF-WAY SECURED BY THE CONTRACTOR FOR USE AS CONSTRUCTION STAGING SHALL BE AT HIS OWN EXPENSE. THE RESTORATION OF ALL STAGING AREAS SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE WORK OF THIS PROJECT. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS WORK.
9. PLAN DIMENSIONS AND MEASUREMENTS ARE BASED ON FIELD OBSERVATIONS AND THEIR ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL VERIFY DIMENSIONS AND COORDINATE AND OBTAIN APPROVAL OF PROJECT ENGINEER PRIOR TO CONSTRUCTION WORK.
10. WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
11. THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER.
12. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT. WORK MAY BE ALLOWED WHEN REQUESTED BY LOCAL MUNICIPALITIES, BUT ONLY WITH THE WRITTEN CONSENT OF THE ENGINEER.
13. NO USE OF PRIVATE PROPERTY BY THE CONTRACTOR OR ANY SUBCONTRACTORS SHALL OCCUR BEFORE THE PROJECT ENGINEER HAS WRITTEN AGREEMENT BETWEEN THE PROPERTY OWNER AND THE CONTRACTOR. AT NO TIME SHALL CONTRACTOR USE PRIVATE PROPERTY WITHOUT THIS PRIOR APPROVAL. FAILURE TO DO SO MAY RESULT IN DAMAGES TO THE CONTRACTOR.
14. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE CONDUCTING ANY CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT. WORK SHALL BE PERFORMED DURING OFF-PEAK HOURS OR AT A TIME AGREED UPON BY THE CITY OF ANN ARBOR. FLAGGING OPERATIONS, IF ANY, SHALL BE PERFORMED FOR 1,000 FEET OF THE PROJECT LENGTH AT A TIME OR AS DIRECTED BY PROJECT ENGINEER. THE TIME OF AND WORK LENGTH OF PROJECT CONSTRUCTION OPERATIONS SHALL BE APPROVED BY THE CITY OF ANN ARBOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
15. ANY UTILITIES AND THEIR LOCATIONS SHOWN ON THE PLANS ARE DEEMED ACCURATE BUT NOT GUARANTEED.
16. IF THE PLANS INDICATE AN EXISTING UNDERGROUND UTILITY IS OR WILL BE OUT OF SERVICE WITHIN THE LIMITS OF THIS CONTRACT, THE CONTRACTOR IS CAUTIONED TO TREAT SUCH A LINE AS IF IT WERE STILL IN SERVICE AND NOTIFY "MISS DIG" WHEN WORKING IN THE AREA OF THE OUT OF SERVICE FACILITY.

**MAINTAINING TRAFFIC NOTES:**

1. ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, BARRICADES, VERTICAL PANELS, DRUMS, WARNING LIGHTS, ARROW BOARDS, AND CHANGEABLE MESSAGE SIGNS SHALL MEET THE "ACCEPTABLE" REQUIREMENTS OF AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), "QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES - CURRENT EDITION". COPIES OF THIS PUBLICATION ARE AVAILABLE DIRECTLY FROM ATSSA. ALL TRAFFIC CONTROL DEVICES SHALL BE IN LIKE-NEW CONDITION.
2. SIGN LOCATIONS AND DISTANCES BETWEEN SIGNS WILL BE FIELD REVIEWED BY THE ENGINEER BEFORE INSTALLATION TO ASSURE APPROPRIATE PLACEMENT. THE LOCATION OF THE CONSTRUCTION SIGNING SHALL BE CLEARLY MARKED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF ONE WEEK IN ADVANCE OF THE NEED FOR REVIEW. THIS WORK WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
3. ALL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE PER THE LATEST EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE 2020 MDOT STANDARD SPECIFICATION FOR CONSTRUCTION. ALL CONSTRUCTION SIGNING SHALL BE BLACK LETTERS ON FLORESCENT ORANGE BACKGROUND.
4. THE CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION OPERATIONS ON THE PROJECT UNTIL ALL CONSTRUCTION SIGNING AND TRAFFIC CONTROL DEVICES ARE IN PLACE.
5. ALL TRAFFIC SIGNS WITHIN THE PROJECT WILL BE RELOCATED BY THE CONTRACTOR FOR EACH STAGE OF CONSTRUCTION (WHEN APPLICABLE). THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS. ANY TRAFFIC CONTROL DEVICES DAMAGED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
6. SPECIAL SIGNS INDICATING THE START DATE OF THE CONSTRUCTION PROJECT AND/OR THE START DATE OF A ROAD CLOSURE SHALL BE POSTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE, WHEN APPLICABLE.
7. AS DIRECTED BY THE TRAFFIC OPERATION ENGINEER, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY ADDITIONAL SIGNS, BARRICADES AND LIGHTS WITHIN THE PROJECT TO PROTECT THE TRAFFIC AND WORK AREA.
8. THE CONTRACTOR SHALL PLACE A MINIMUM OF EIGHT SANDBAGS ON CONTRACTOR FURNISHED TYPE III BARRICADES TO PREVENT MOVEMENT. ALL TYPE III BARRICADES SHALL BE DOUBLE SIDED.
9. CONSTRUCTION SIGNING MOUNTED ON PORTABLE SUPPORTS SHOULD NOT BE USED FOR A DURATION OF MORE THAN FOURTEEN (14) DAYS. OTHERWISE, SIGNS SHALL BE GROUND MOUNTED ON 3 LB U-CHANNEL POSTS WHEN POSSIBLE. THE FOLLOWING SIGNS MAY BE PLACED ON TEMPORARY SUPPORTS: SIGNS PLACED IN CONJUNCTION WITH THE TYPE III BARRICADES, SIGNS PLACED FOR SIDEWALK CLOSURE, AND SIGNS WITHIN THE CLOSED PORTION OF ROADWAY ITSELF. THE CONTRACTOR SHALL INSTALL ONE FLASHER ON ANY CONSTRUCTION SIGN THAT IS INSTALLED ON TEMPORARY SUPPORTS.
10. ALL SIGNS PLACED IN CONJUNCTION WITH A TYPE III BARRICADE SHALL BE PLACED ON SEPARATE SUPPORTS IMMEDIATELY BEHIND AND ABOVE THE TYPE III BARRICADE. THESE SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS. THE CONTRACTOR SHALL PLACE A MINIMUM OF EIGHT SANDBAGS ON THESE SIGNS TO PREVENT MOVEMENT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL CONSTRUCTION AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE CONSTRUCTION AREA.
12. TRAFFIC CHANNELING DEVICES (PLASTIC BARRELS) FURNISHED BY THE CONTRACTOR FOR WORK PROTECTION SHALL BE COATED WITH REFLECTORIZED MATERIAL AS PER SPECIAL DETAIL WZD-125. SPACING SHALL ADHERE TO MDOT TRAFFIC AND SAFETY STANDARD PLANS OR AS NOTED ON PLANS.
13. TRAFFIC CONTROL SIGNS AND STREET NAME SIGNS SHALL BE REMOVED, SALVAGED, RELOCATED AND MAINTAINED BY THE CONTRACTOR AS INDICATED ON THE PLANS. THIS WORK MAY BE REQUIRED MULTIPLE TIMES DURING THE PROJECT TO ACCOMMODATE CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED ON THE SAME DAY OF A CHANGE IN OPERATIONS REQUIRING THE SIGN WORK AS DETERMINED AND/OR APPROVED BY THE PROJECT ENGINEER. UPON COMPLETION OF THE PROJECT, PERMANENT TRAFFIC CONTROL SIGNS WILL BE RELOCATED, REPLACED OR UNCOVERED IN THEIR PROPER POSITION BY THE CONTRACTOR AS INDICATED ON THE PLANS. THE SIGN REMOVAL, SALVAGING, RELOCATING, INSTALLATION, AND RELATED WORK WILL BE PAID FOR WITH THE APPROPRIATE PAY ITEM, AT THE CONTRACT UNIT PRICES EACH TIME THE WORK IS DETERMINED TO BE NECESSARY BY THE PROJECT ENGINEER TO ACCOMMODATE CONSTRUCTION OPERATIONS.
14. ANY OTHER SIGNS WHICH THE CONTRACTOR MAY BE REQUIRED TO FURNISH SHALL CONFORM TO THE MUTCD CURRENT EDITION.
15. ACCESS MUST BE MAINTAINED TO ALL DRIVEWAYS AT ALL TIMES UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
16. ACCESS MUST BE MAINTAINED TO ALL BUSINESSES, SCHOOLS CHURCHES AT ALL TIME UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
17. DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
18. POSTAL DELIVERY AND REFUSE PICKUP SERVICE SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
19. PEDESTRIAN TYPE II BARRICADES SHALL BE PLACED AT ALL POSSIBLE ENTRY POINTS WHERE SIDEWALK IS CLOSED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. SIDEWALK CLOSURE SIGNS AND PEDESTRIAN SIGNS SHALL BE PLACED AT LOCATIONS PER THE MUTCD CURRENT EDITION AND AS DIRECTED BY THE ENGINEER.
20. IF TEMPORARY DRIVEWAY CLOSURES ARE REQUIRED, CLOSURE SHALL BE FOR MINIMUM AMOUNT OF TIME TO MINIMIZE DISRUPTIONS.
21. TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ANY EXISTING CONFLICTING PAVEMENT MARKING PRIOR TO INSTALLING TEMPORARY PAVEMENT MARKINGS AS INDICATED IN PLANS.
22. ALL DISTURBED PAVEMENT MARKINGS SHALL BE REPLACED IN-KIND AS APPROVED BY THE ENGINEER.

**SIGNING AND PAVEMENT MARKING NOTES:**

1. THE FOLLOWING ARE PROJECT CHARACTERISTICS FOR EACH CORRIDOR:
  - 1.1. S. MAIN STREET (STADIUM BLVD TO WILLIAM ST) - TEMPORARY SIGNING AND TEMPORARY PAVEMENT MARKING DEPLOYMENT. CONTRACTOR SHALL RETURN CORRIDOR TO ORIGINAL CONDITIONS AT THE END OF THE HEALTHY STREETS PROGRAM UNLESS OTHERWISE DIRECTED BY ENGINEER.
    - 1.1.1. R3-7R SIGNS SHALL BE OF BLACK LEGEND AND BORDER ON WHITE RETROREFLECTIVE BACKGROUND.
    - 1.1.2. R3-17 SIGNS SHALL BE OF BLACK LEGEND AND BORDER ON WHITE RETROREFLECTIVE BACKGROUND.
    - 1.1.3. W11-1 SIGNS SHALL BE OF BLACK LEGEND AND BORDER ON YELLOW RETROREFLECTIVE BACKGROUND.
    - 1.1.4. W16-1P SIGNS SHALL BE OF BLACK LEGEND AND BORDER ON YELLOW RETROREFLECTIVE BACKGROUND.
  - 1.2. PACKARD STREET (STATE ST TO HILL ST) - PERMANENT SIGNING (by City of Ann Arbor) AND PERMANENT PAVEMENT MARKING DEPLOYMENT.
  - 1.3. PACKARD STREET (EISENHOWER PKWY TO US-23) - PERMANENT SIGNING (by City of Ann Arbor) AND PERMANENT PAVEMENT MARKING DEPLOYMENT.
2. UNLESS OTHERWISE DIRECTED BY ENGINEER, THE LOCATION OF TEMPORARY SIGNING SHALL BE CLEARLY MARKED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL NOT BE PAID SEPARATELY AND IS INCLUDED IN THE COST OF THE PROJECT. A MINIMUM 7 WORKING DAYS ADVANCE NOTICE SHALL BE GIVEN FOR FIELD REVIEW BEFORE INSTALLATION TO ASSURE APPROPRIATE PLACEMENT. IF CONTRACTOR INSTALLS THE SIGNS WITHOUT THE CITY OF ANN ARBOR OR PROJECT ENGINEER APPROVAL OF LOCATION, AND THEY DETERMINE THE LOCATIONS ARE NOT APPROPRIATE, THE CONTRACTOR WILL RE-INSTALL THE SIGNS AT THE APPROPRIATE LOCATIONS AT HIS SOLE EXPENSE.
3. UNLESS OTHERWISE DIRECTED BY ENGINEER, THE LOCATION OF TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE LAID OUT IN THE FIELD BY CONTRACTOR. A MINIMUM OF 7 WORKING DAYS NOTICE SHALL BE GIVEN FOR FIELD REVIEW BEFORE INSTALLATION TO ASSURE APPROPRIATE PLACEMENT. IF CONTRACTOR INSTALLS THE PAVEMENT MARKINGS WITHOUT THE CITY OF ANN ARBOR OR PROJECT ENGINEER APPROVAL OF LOCATION, AND THEY DETERMINE THE LOCATIONS ARE NOT APPROPRIATE, THE CONTRACTOR WILL RE-INSTALL THE PAVEMENT MARKINGS AND CORRECT ANY DEFICIENCIES AT THE APPROPRIATE LOCATIONS AT HIS SOLE EXPENSE. NO PAVEMENT MARKINGS WILL BE PLACED UNTIL CONTRACTOR CLEANS PAVEMENT OF DIRT AND DEBRIS.
4. THE LAYOUT AND INSTALLATION OF PERMANENT SIGNING SHALL BE PERFORMED BY THE CITY OF ANN ARBOR.
5. INSPECTION OF WORK MUST BE REQUESTED BY 3:00 PM THE DAY PRIOR TO WHEN WORK IS TO OCCUR. INSPECTION FOR SATURDAY, SUNDAY, AND MONDAY MUST BE SCHEDULED BY 3:00 PM ON THE PRECEDING FRIDAY. CONTRACTORS FAILING TO PROVIDE PROPER NOTIFICATION AS DESCRIBED ABOVE MAY BE DENIED INSPECTION DUE TO UNAVAILABILITY OF STAFF. SIGNS AND PAVEMENT MARKINGS PLACED BY CONTRACTOR WITHOUT APPROVAL OF PROJECT ENGINEER WILL NOT BE PAID FOR.
6. TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED BY CONTRACTOR. REMOVAL OF TEMPORARY MARKINGS WILL BE REQUIRED AS DIRECT BY PROJECT ENGINEER OR AS SHOWN ON THE PLANS. CONTRACTOR SHALL REMOVE ANY EXISTING CONFLICTING PAVEMENT MARKINGS PRIOR TO INSTALLING TEMPORARY PAVEMENT MARKINGS.
7. ALL PAVEMENT MARKINGS WHICH CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED.
8. FOR TEMPORARY PAVEMENT MARKING DEPLOYMENT, THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM, UNLESS OTHERWISE DIRECTED BY ENGINEER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN A LOG OF THE LOCATION AND TYPE OF ALL EXISTING PAVEMENT MARKINGS, OR ANY OTHER INFORMATION DEEMED NECESSARY TO RETURN THE APPLICABLE CORRIDOR IN THE ORIGINAL CONDITIONS. THIS LOG SHALL BE REVIEWED AND APPROVED BY THE CITY OF ANN ARBOR OR PROJECT ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK. PAYMENT FOR THESE ACTIVITIES IS INCLUDED IN THE PAVEMENT MARKING PAY ITEMS AND SHALL NOT BE PAID SEPARATELY. INSTALLATION OF THE ORIGINALLY DISTURBED PAVEMENT MARKINGS SHALL FOLLOW ALL LAYOUT APPROVALS, INSPECTIONS, AND REQUIREMENT AS OTHER PERMANENT PAVEMENT MARKING INSTALLATIONS.

QUANTITIES: MISCELLANEOUS AND AS-DIRECTED		
PAY ITEM	QTY	UNIT
Mobilization, Max	1	LSUM
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	10	Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	10	Ea
Channelizing Device, 42 inch, Fluorescent, Furn	100	Ea
Channelizing Device, 42 inch, Fluorescent, Oper	100	Ea
Lighted Arrow, Type C, Furn	2	Ea
Lighted Arrow, Type C, Oper	2	Ea
Minor Traf Devices	1	LSUM
Mobile Attenuator	2	Ea
Plastic Drum, Fluorescent, Furn	50	Ea
Plastic Drum, Fluorescent, Oper	50	Ea
Sign Cover	50	Ea
Sign, Portable, Changeable Message, Furn	2	Ea
Sign, Portable, Changeable Message, Oper	2	Ea
Traf Regulator Control	1	LSUM
Lane Separator System	15	Ea

QUANTITIES: PACKARD STREET - STATE ST. TO HILL ST.		
PAY ITEM	QTY	UNIT
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	560	Ft
Pavt Mrkg, Sprayable Thermopl, 6 inch, White	700	Ft
Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	300	Ft
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	70	Ft
Rem Spec Mrkg	330	Sft
Pavt Mrkg, Sprayable Thermopl, 6 inch, Dotted Thru Guide Line, White	70	Ft
Pavt Mrkg, Prefomed Thermopl, Bike Thru Arrow Sym	1	Ea
Pavt Mrkg, Prefomed Thermopl, Bike, Small Sym	1	Ea
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	910	Ft

QUANTITIES - PACKARD STREET - ESIENHOWER PKWY. TO US-23		
PAY ITEM	QTY	UNIT
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	4800	Ft
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	18000	Ft
Pavt Mrkg, Sprayable Thermopl, 6 inch, White	14200	Ft
Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	350	Ft
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	290	Ft
Rem Spec Mrkg	1600	Sft
Pavt Mrkg, Sprayable Thermopl, 6 inch, Dotted Thru Guide Line, White	610	Ft
Pavt Mrkg, Prefomed Thermopl, Bike Thru Arrow Sym	20	Ea
Pavt Mrkg, Prefomed Thermopl, Bike, Small Sym	20	Ea
Pavt Mrkg, Prefomed Thermopl, Lt Turn Arrow Sym	10	Ea
Pavt Mrkg, Prefomed Thermopl, Sharrow Sym	1	Ea
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	24000	Ft

QUANTITIES: S. MAIN STREET - STATE STADIUM BLVD. TO WILLIAM ST.		
PAY ITEM	QTY	UNIT
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	2400	Ft
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	7100	Ft
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	200	Ft
Rem Spec Mrkg	4000	Sft
Witness, Log, \$1,000.00	1	Dir
Pavt Mrkg, Prefomed Thermopl, Lt Turn Arrow Sym	2	Ea
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	31000	Ft
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	150	Ft
Pavt Mrkg, Type NR, Paint, 24 inch, Stop Bar	250	Ft
Pavt Mrkg, Type NR, Paint, Lt Turn Arrow	4	Ea
Pavt Mrkg, Type NR, Paint, Rt Turn Arrow	2	Ea
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp	8500	Ft
Sign Cover	25	Ea
Sign, Type B, Temp, Prismatic, Furn	94	Sft
Sign, Type B, Temp, Prismatic, Oper	94	Sft
Pavt Mrkg, Wet Reflective, Type NR, Paint, 6 inch, White, Temp	13000	Ft
Pavt Mrkg, Wet Reflective, Type NR, Paint, 12 inch, White, Temp	150	Ft
Pavt Mrkg, Type NR, Paint, Only	2	Ea
Pavt Mrkg, Type NR, Paint, Direction Arrow Sym, Bike	15	Ea
Pavt Mrkg, Type NR, Paint, Bike, Small Sym	15	Ea
Pavt Mrkg, Type NR, Paint, Sharrow Sym	2	Ea
Pavt Mrkg, Type NR, Paint, 12 inch, Cross Hatching, White	2000	Ft
Lane Separator System	52	Ea



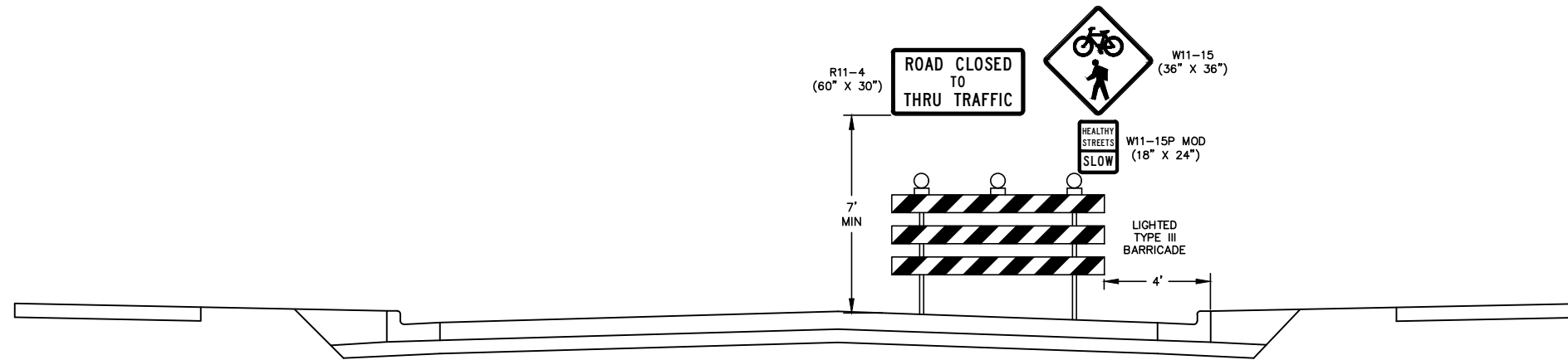
01	REV.				
		FINAL PLANS TO CITY	4/06/2021	GH	CHEKED
		DESCRIPTION	DATE	GH	DRAWN

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301 EAST HURON STREET  
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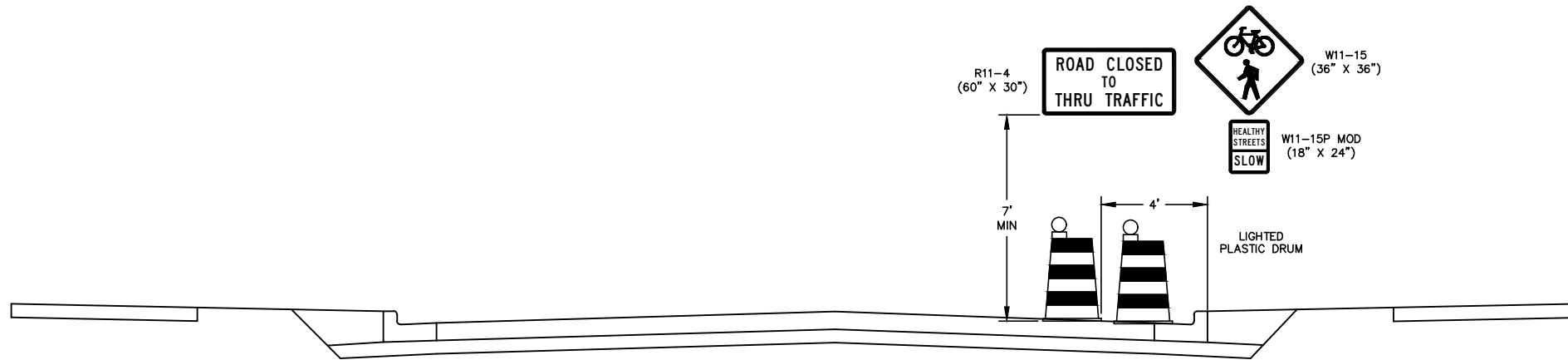


PROJECT MANAGEMENT - CITY OF ANN ARBOR  
HEALTHY STREETS PROGRAM  
NOTE SHEET & QUANTITIES

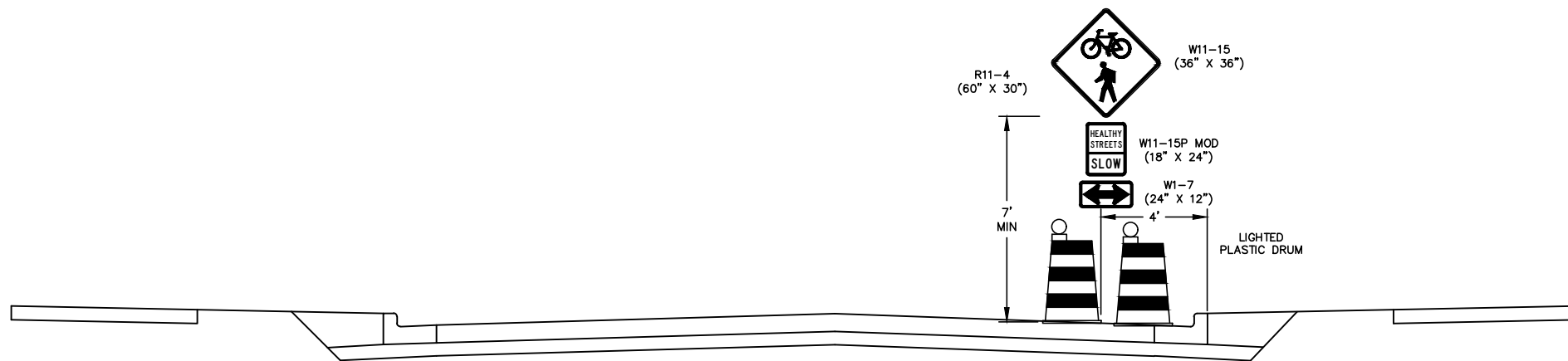
SCALE: PLAN: NTS  
DRAWING No. r101.dwg



MAIN STREET  
NEIGHBORHOOD SLOW STREET  
TYPICAL A  
(FOR ROAD PAVEMENT WIDTHS 28 FT OR WIDER)



MAIN STREET  
NEIGHBORHOOD SLOW STREET  
TYPICAL B  
(FOR ROAD PAVEMENT WIDTHS LESS THAN 28 FT)



SIDE STREET  
NEIGHBORHOOD SLOW STREET  
TYPICAL C

- NOTES:
1. SIGNS SHALL BE PLACED AND SECURED BEHIND TYPE III BARRICADES OR PLASTIC DRUMS.
  2. SIGNS SHALL BE INSTALLED SO THAT THEY DO NOT INTERFERE WITH MOTORIZED OR NON-MOTORIZED USER MOVEMENT.
  3. SIGNS VISIBILITY SHALL NOT BE BLOCKED AT ANY TIME.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	CHS
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	CHS
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	CHS

CITY OF ANN ARBOR  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROGRAM  
NEIGHBORHOOD SLOW STREET  
TYPICALS

SCALE: PLAN: NTS  
DRAWING No.: 1/01.dwg

SHEET No.



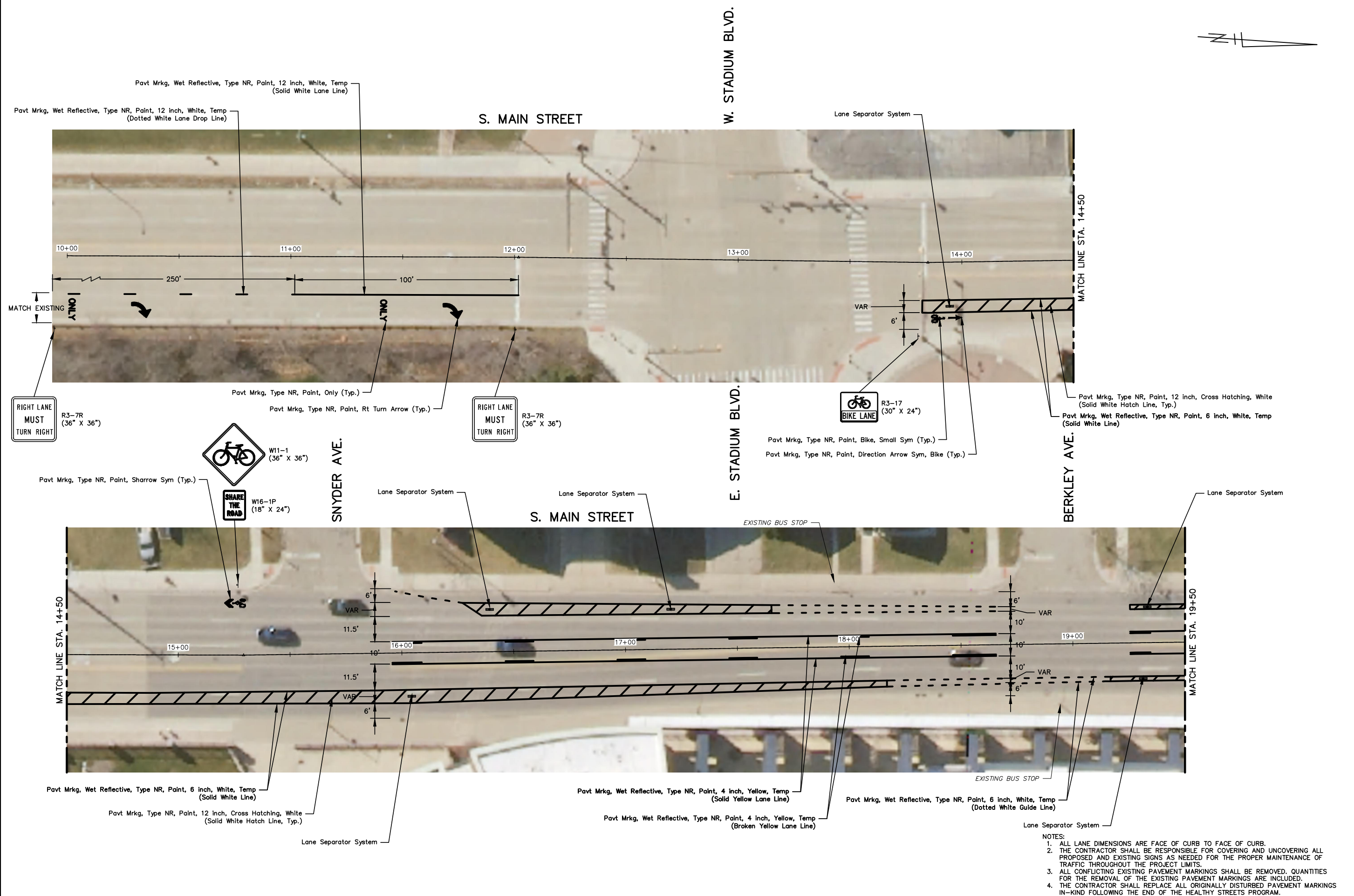
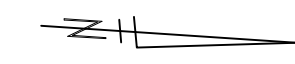
REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**

PLAN - S. MAIN STREET  
P.O.B. TO STA 19+50  
SCALE: PLAN: 1" = 20'  
DRAWING No. m0101.dwg



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS.
  3. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  4. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.



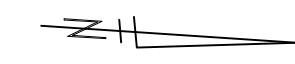
REV.	DATE	DESCRIPTION	DRAWN	CHECKED
03	4/06/2021	FINAL PLANS TO CITY	GH	CHS
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW	GH	CHS
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW	GH	CHS

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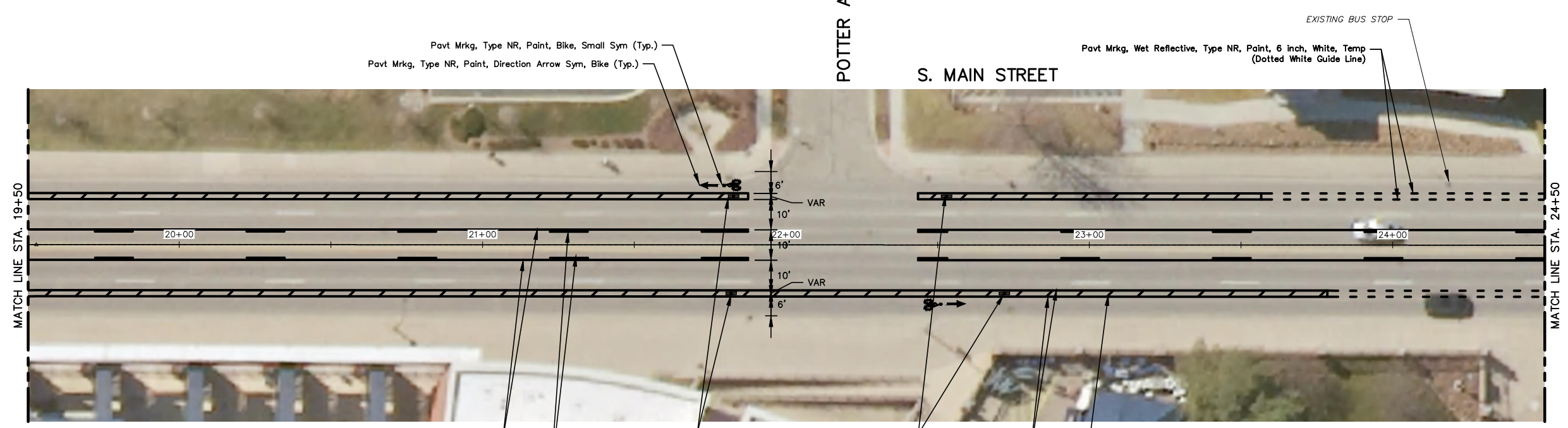
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROGRAM  
PLAN - S. MAIN STREET  
STA 19+50 TO STA 29+50

SCALE: PLAN: 1" = 20'  
DRAWING No. mto02.dwg  
SHEET No.



POTTER AVE.

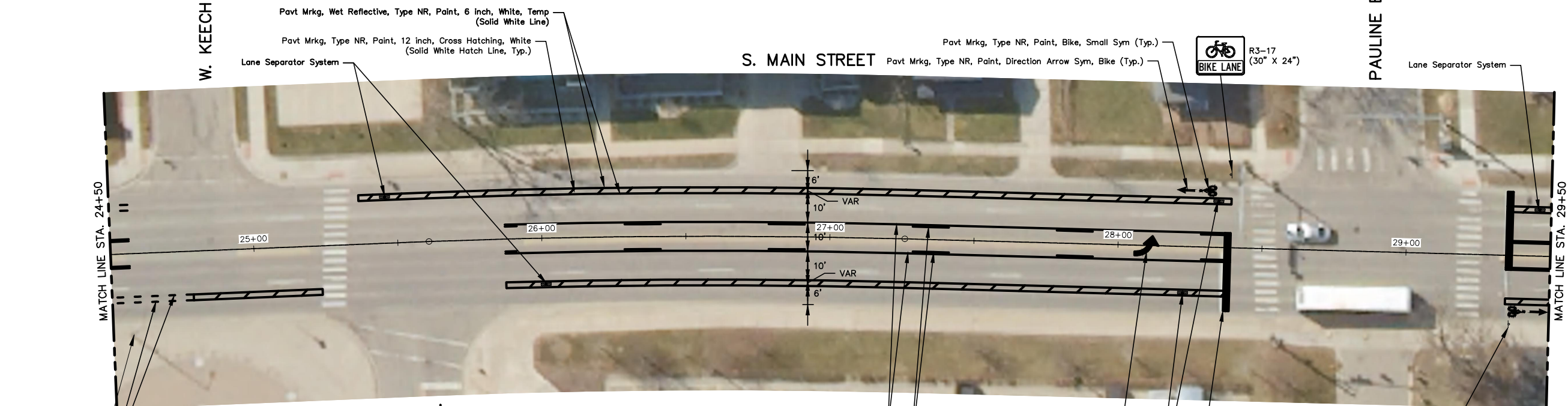
S. MAIN STREET



W. KEECH AVE.

S. MAIN STREET

PAULINE BLVD.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS.
  3. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  4. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	CHS
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	CHS
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	CHS

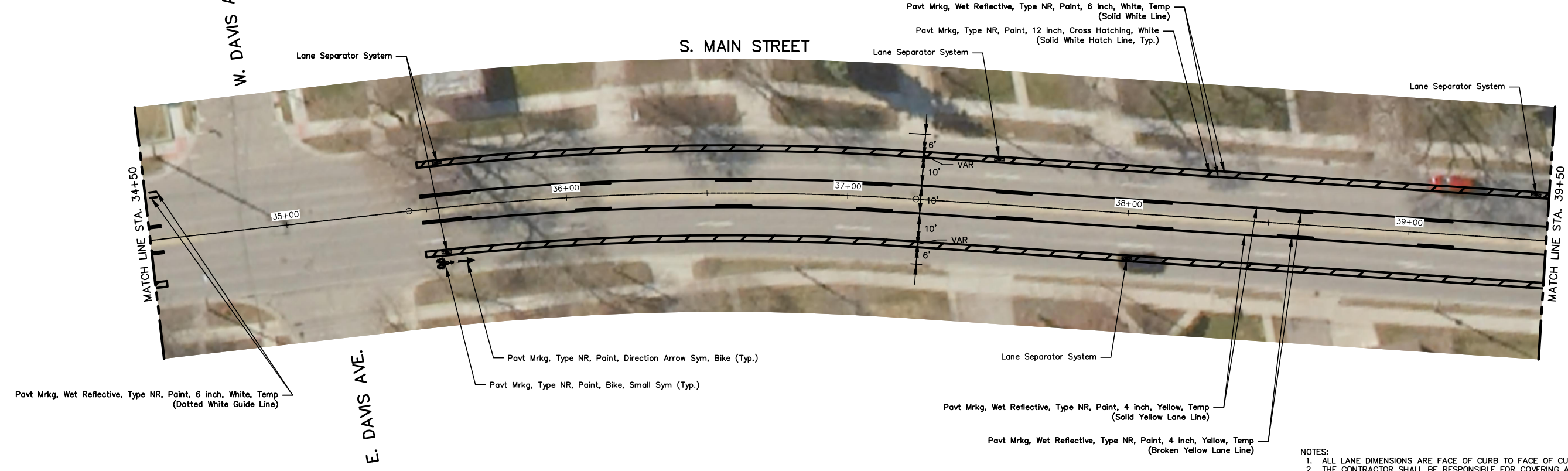
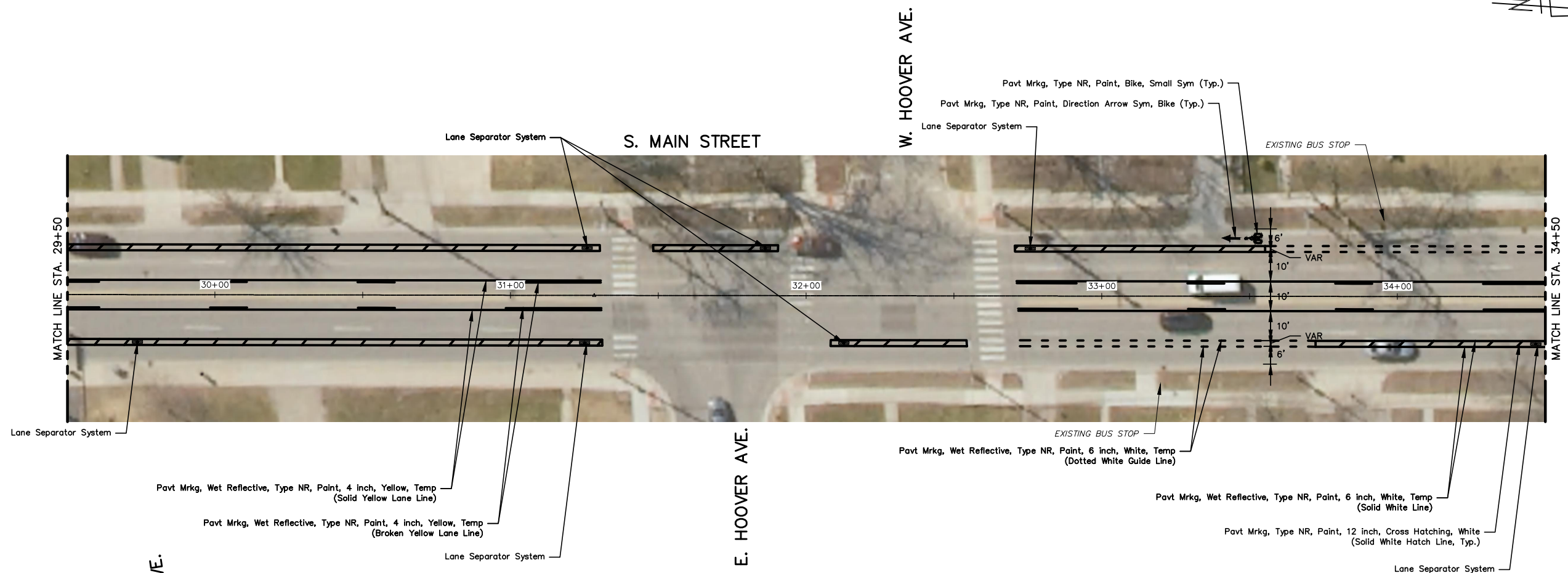
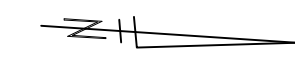
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-0667  
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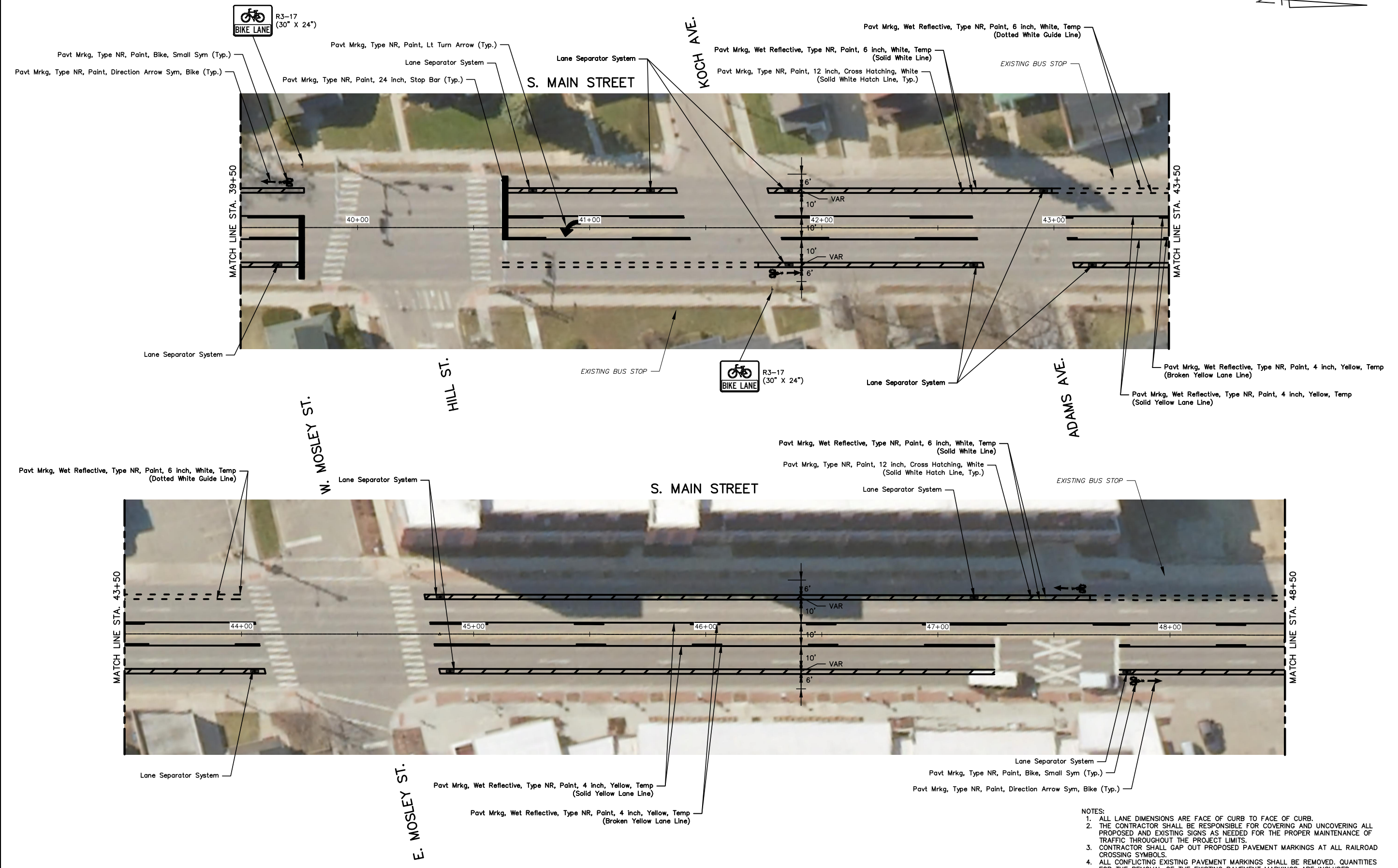
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**

PLAN - S. MAIN STREET  
STA 29+50 TO STA 39+50

SCALE: PLAN: 1" = 20'  
DRAWING No.: mto103.dwg



- NOTES:**
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS.
  3. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  4. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS.
  3. CONTRACTOR SHALL GAP OUT PROPOSED PAVEMENT MARKINGS AT ALL RAILROAD CROSSING SYMBOLS.
  4. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  5. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.

REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**  
 PLAN - S. MAIN STREET  
 STA 39+50 TO STA 48+50

SCALE: PLAN: 1" = 20'  
 DRAWING No. m0104.dwg  
 SHEET No. 8 of 22





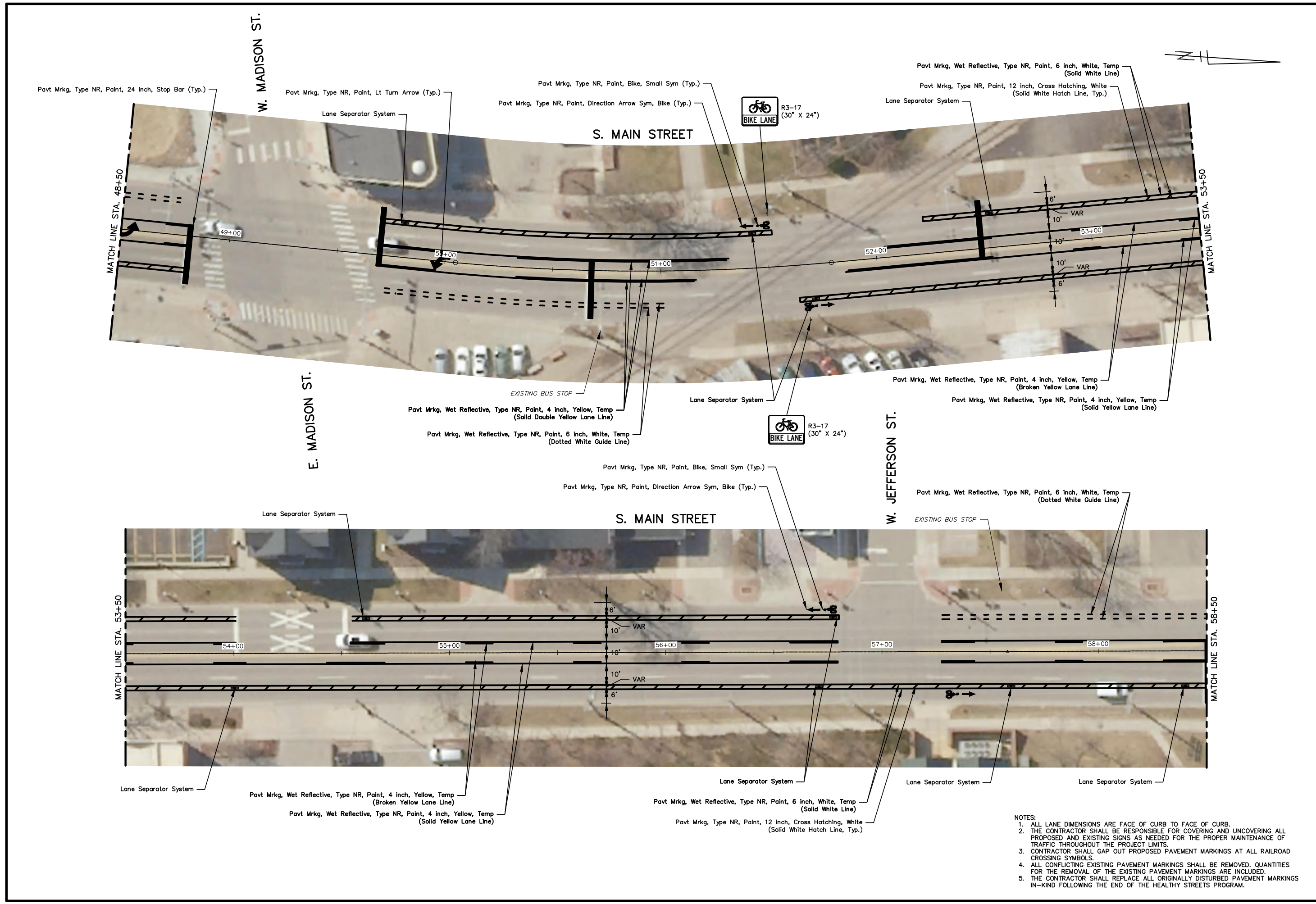
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	CHS
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	CHS
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	CHS

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PUBLIC SERVICES  
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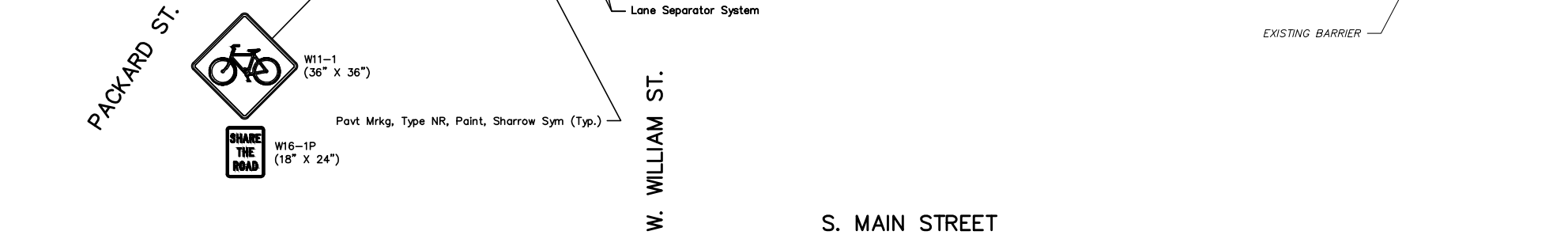
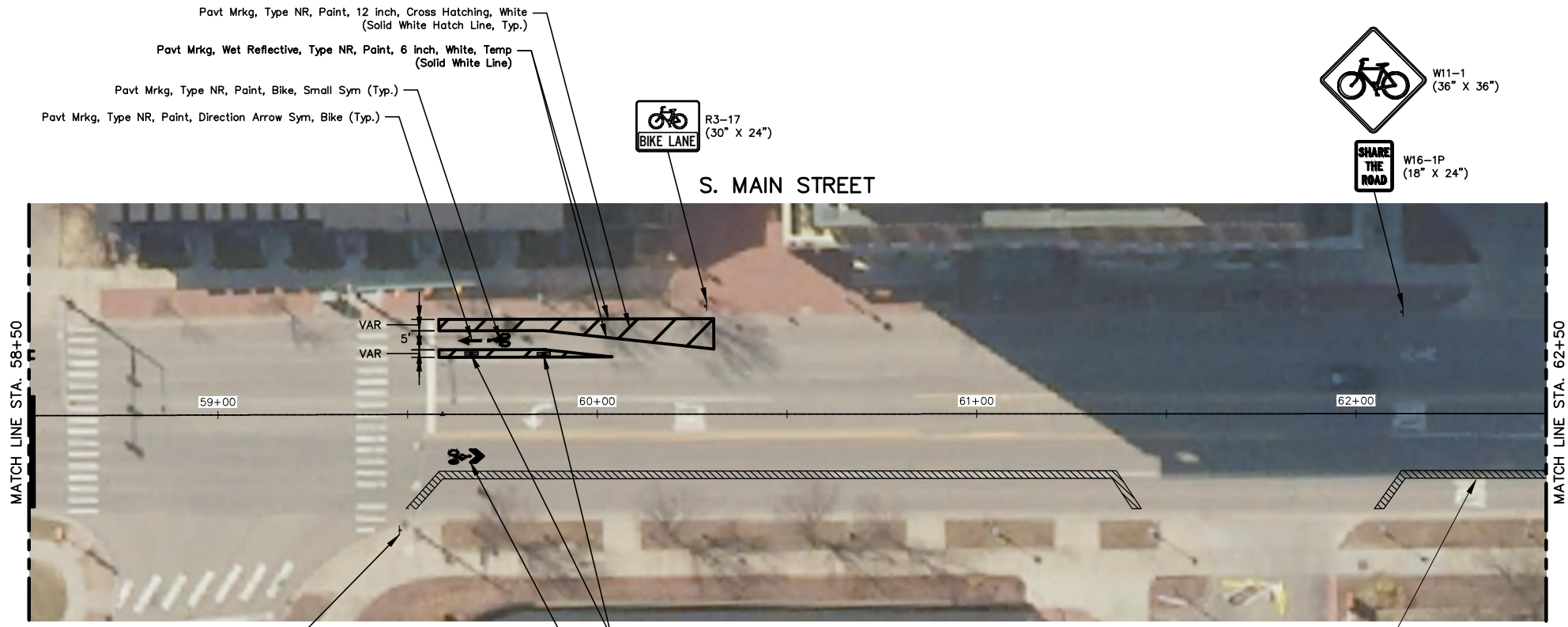


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROGRAM  
PLAN - S. MAIN STREET  
STA 48+50 TO STA 58+50

SCALE: PLAN: 1" = 20'  
DRAWING No. m0105.dwg  
SHEET No.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS.
  3. CONTRACTOR SHALL GAP OUT PROPOSED PAVEMENT MARKINGS AT ALL RAILROAD CROSSING SYMBOLS.
  4. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  5. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.



Pavt Mrkg, Type NR, Paint, 12 inch, Cross Hatching, White (Solid White Hatch Line, Typ.)

Pavt Mrkg, Wet Reflective, Type NR, Paint, 6 inch, White, Temp (Solid White Line)

Pavt Mrkg, Type NR, Paint, Bike, Small Sym (Typ.)

Pavt Mrkg, Type NR, Paint, Direction Arrow Sym, Bike (Typ.)

R3-17 (30" X 24")

BIKE LANE

W11-1 (36" X 36")

SHARE THE ROAD

W16-1P (18" X 24")

W11-1 (36" X 36")

SHARE THE ROAD

W16-1P (18" X 24")

Pavt Mrkg, Type NR, Paint, Sharrow Sym (Typ.)

- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING AND UNCOVERING ALL PROPOSED AND EXISTING SIGNS AS NEEDED FOR THE PROPER MAINTENANCE OF TRAFFIC THROUGHOUT THE PROJECT LIMITS
  3. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  4. THE CONTRACTOR SHALL REPLACE ALL ORIGINALLY DISTURBED PAVEMENT MARKINGS IN-KIND FOLLOWING THE END OF THE HEALTHY STREETS PROGRAM.

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**HEALTHY STREETS PROGRAM**

PLAN - S. MAIN STREET  
STA 58+50 TO P.O.E.

SCALE: PLAN: 1" = 20'

DRAWING No. m0106.dwg

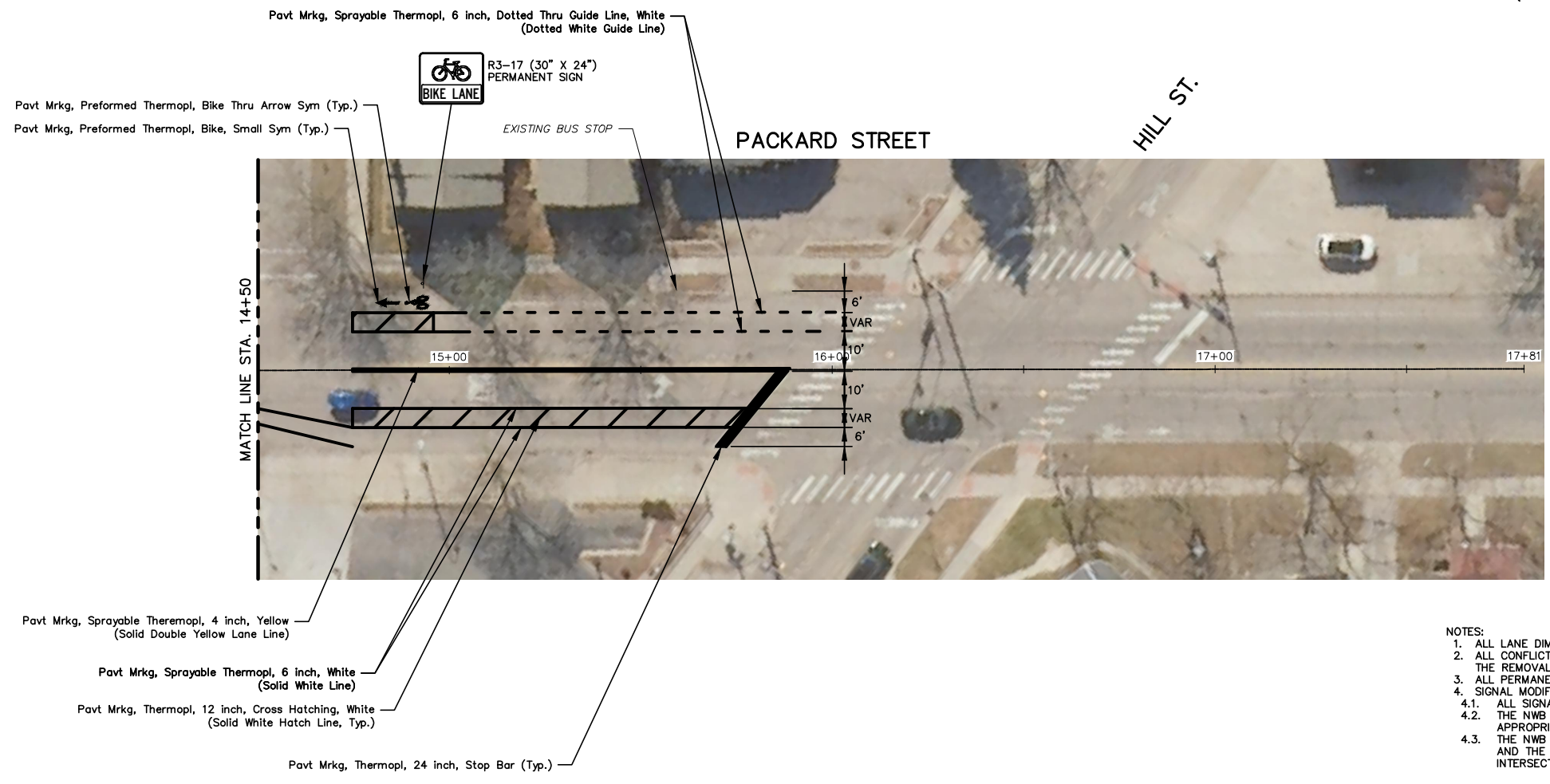
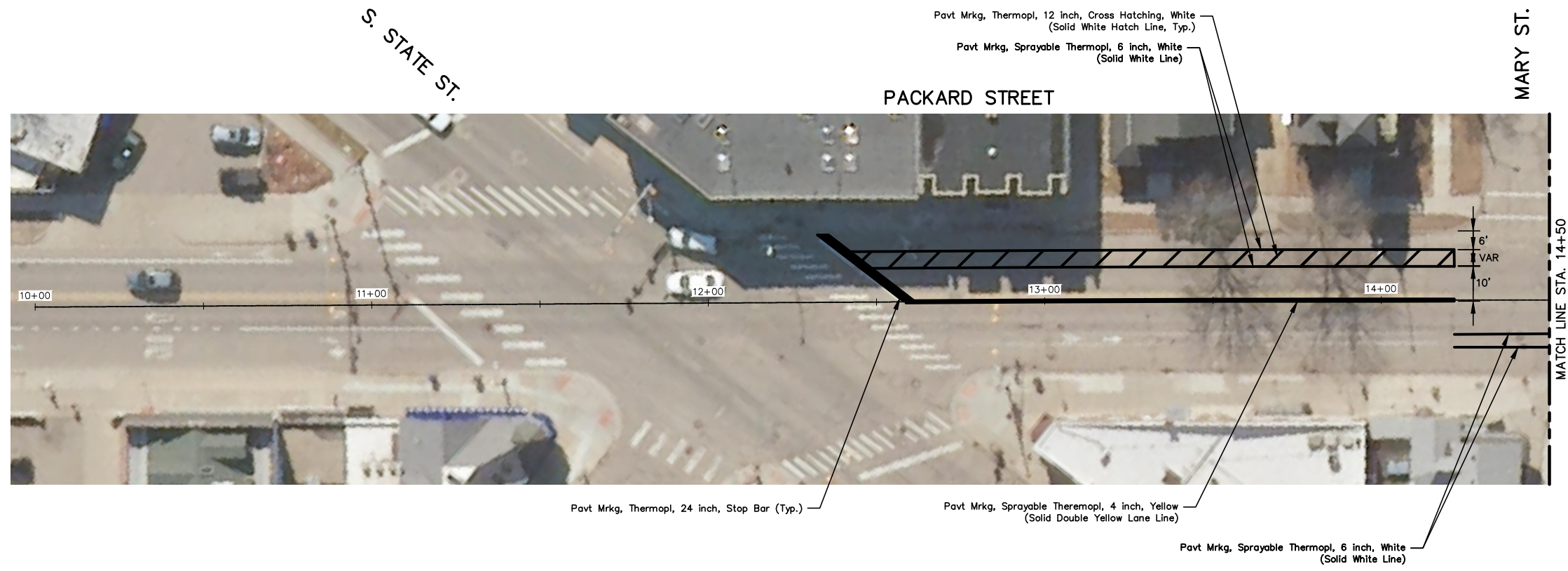
SHEET No. 10 of 22

**811**  
Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
03	4/06/2021	FINAL PLANS TO CITY	GH	CHS
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW	GH	CHS
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW	GH	CHS

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PUBLIC SERVICES  
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www.a2gov.org

CITY OF ANN ARBOR  
MICHIGAN



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.
  4. SIGNAL MODIFICATION - PACKARD ST & HILL ST
    - 4.1. ALL SIGNAL WORK SHALL BE PERFORMED BY THE CITY OF ANN ARBOR.
    - 4.2. THE NWB LEFT-TURN SIGNAL HEAD SHALL BE REMOVED AND STORED APPROPRIATELY.
    - 4.3. THE NWB LEFT-TURN SIGNAL PHASE SHALL BE REMOVED FROM SIGNAL OPERATIONS AND THE SIGNAL TIMING SHALL BE MODIFIED AS NECESSARY SO THAT THE INTERSECTION PERFORMS ADEQUATELY WITHOUT A NWB LEFT-TURN.

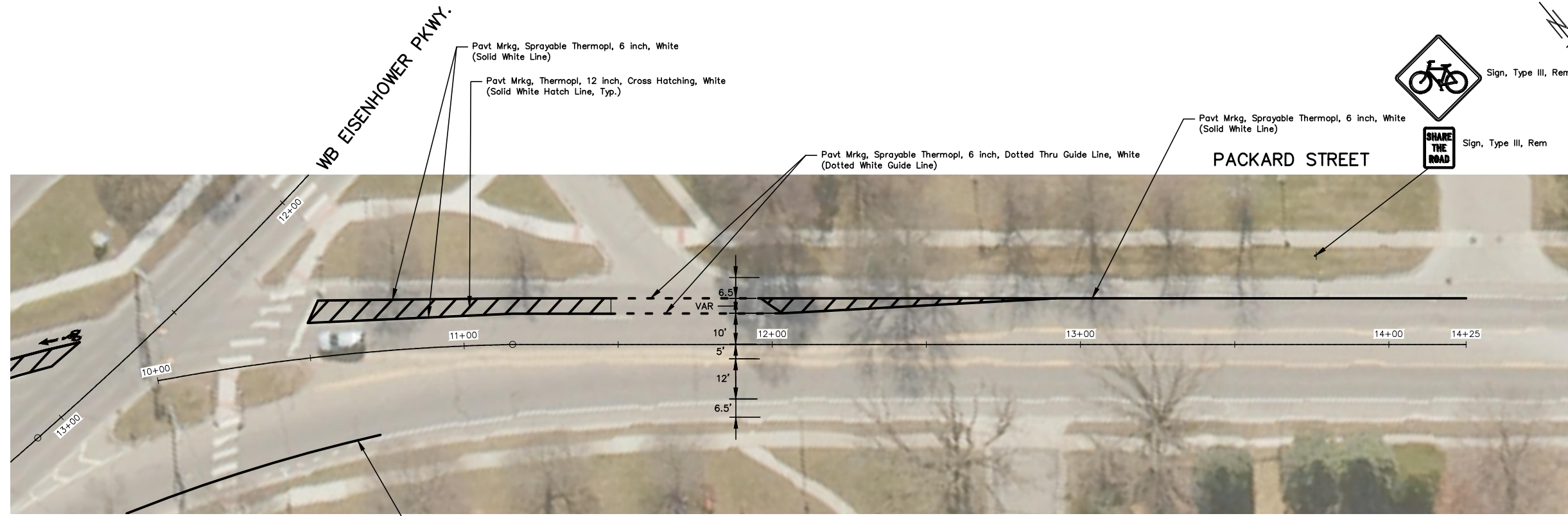


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	CHS
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	CHS
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	CHS

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 ANN ARBOR, MI 48106-8667  
 ANN ARBOR, MI 48106-8667  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN - PACKARD STREET  
 P.O.B. TO P.O.E.

SCALE: PLAN: 1" = 20'  
 DRAWING No. m0707.dwg



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	GH
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	CGV	GH
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	CGV	GH

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN - PACKARD STREET  
 P.O.B. TO P.O.E.

SCALE PLAN: 1" = 20'  
 DRAWING No.  
 mto028.dwg



Know what's below.  
Call before you dig.

REV.	DESCRIPTION	DATE	CGV	GH	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	CGV	GH	
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	CGV	GH	
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	CGV	GH	

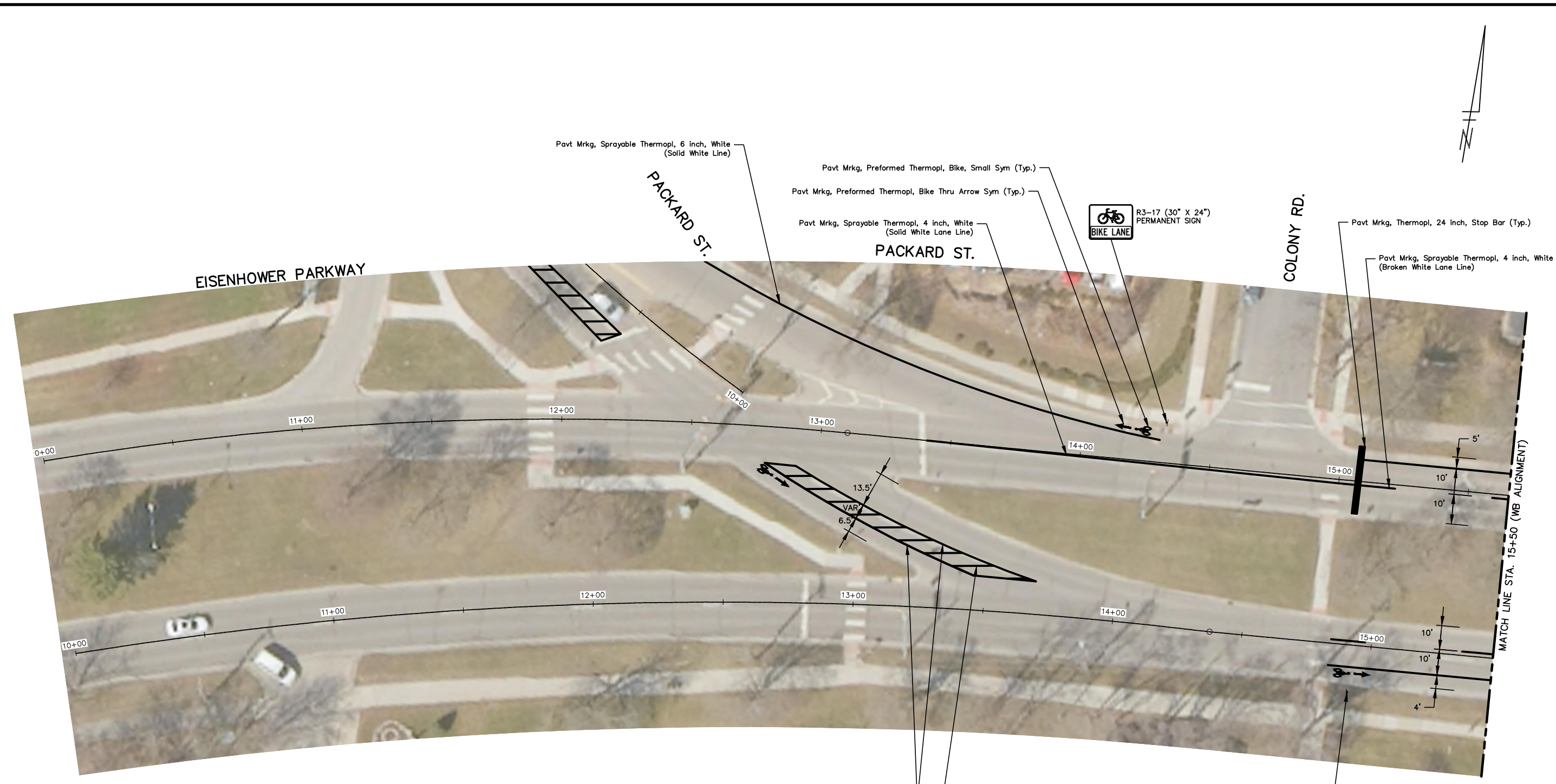
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ANN ARBOR MI 48106-0667  
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www.a3gov.org



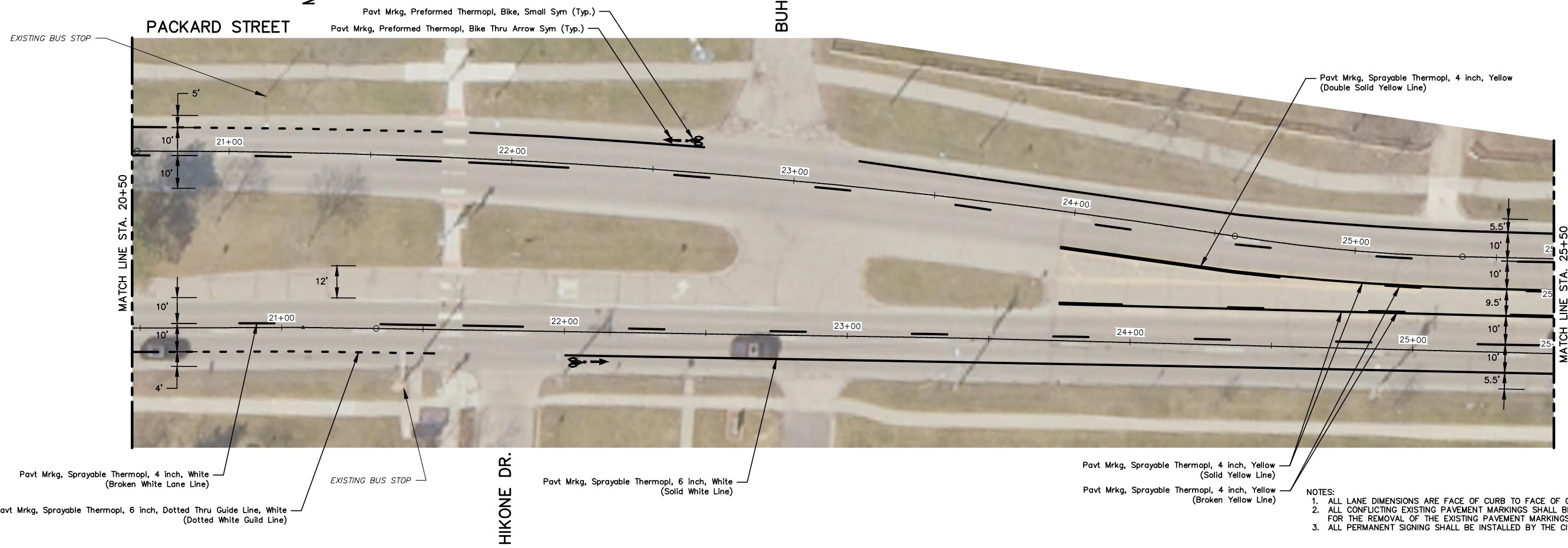
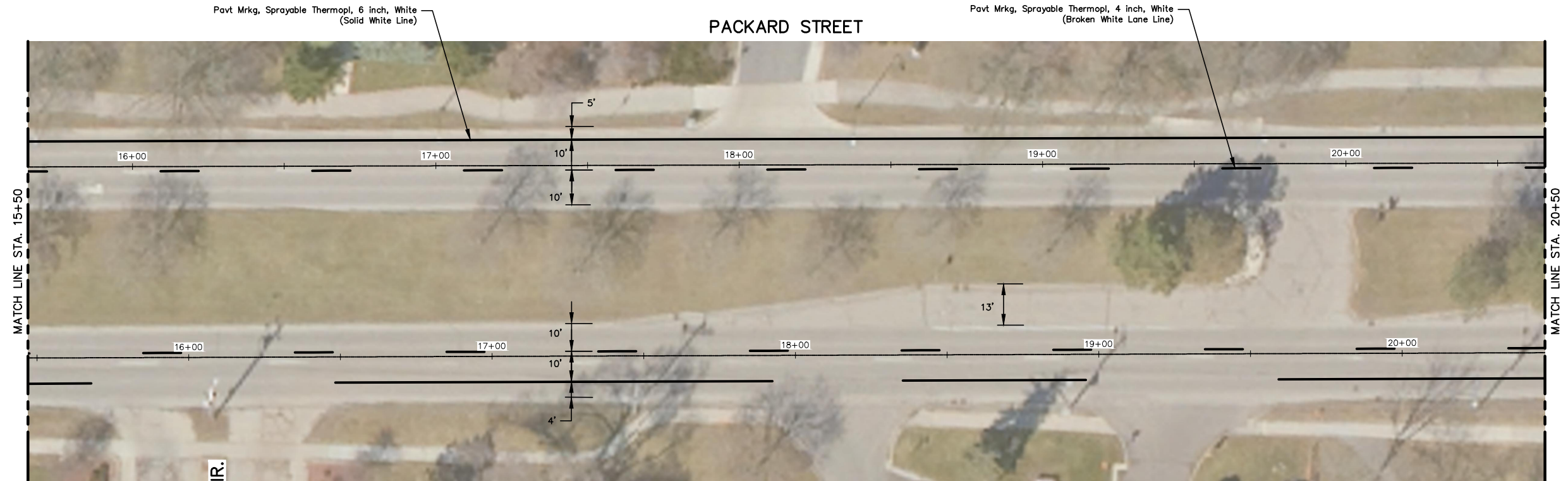
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**

SCALE: PLAN: 1" = 20'  
DRAWING No.  
mto09.dwg

SHEET No.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	GH
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	GH
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	GH

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN - PACKARD STREET  
 STA 15+50 TO STA 25+50

SCALE: PLAN: 1" = 50'  
 DRAWING No. mof10.dwg



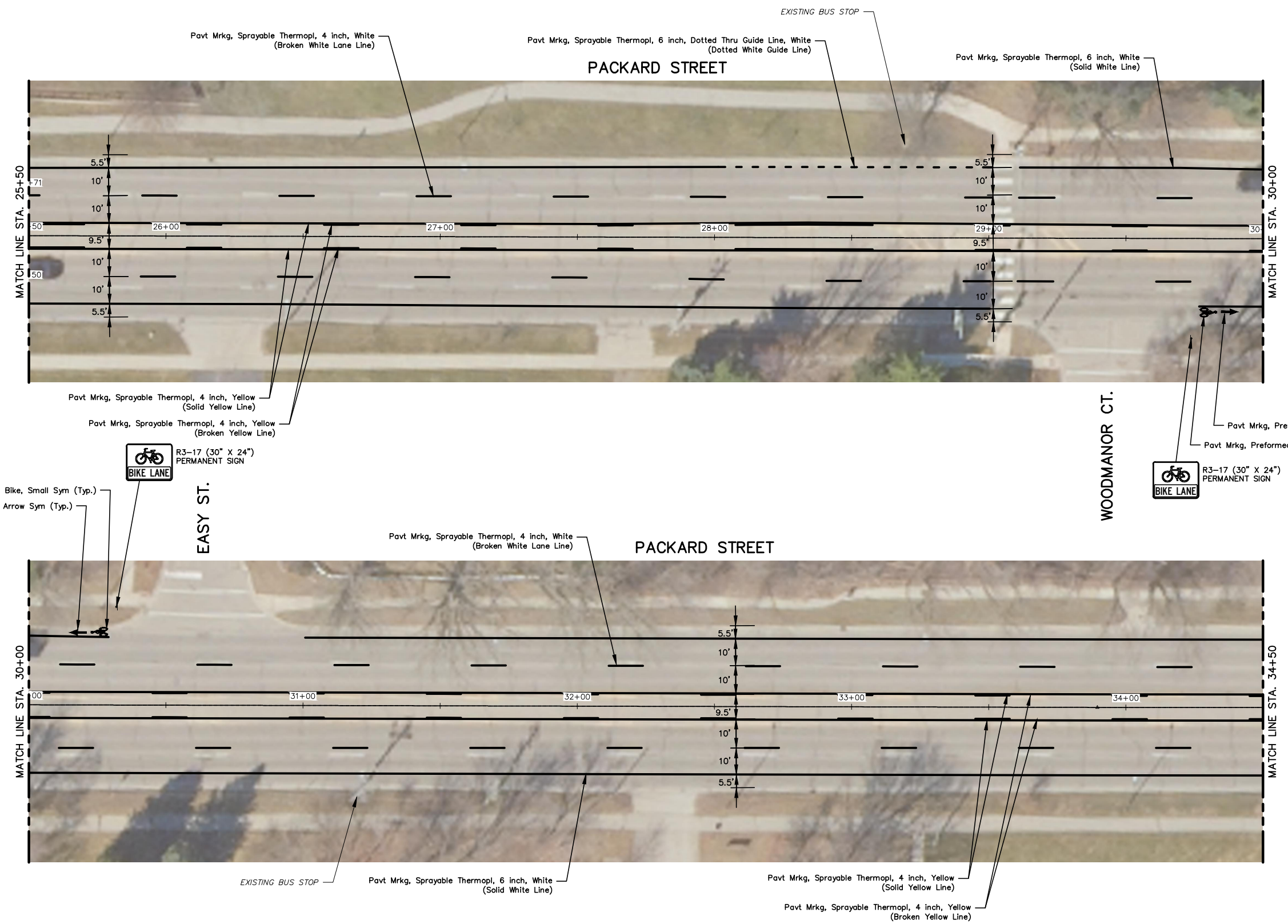
REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-1667  
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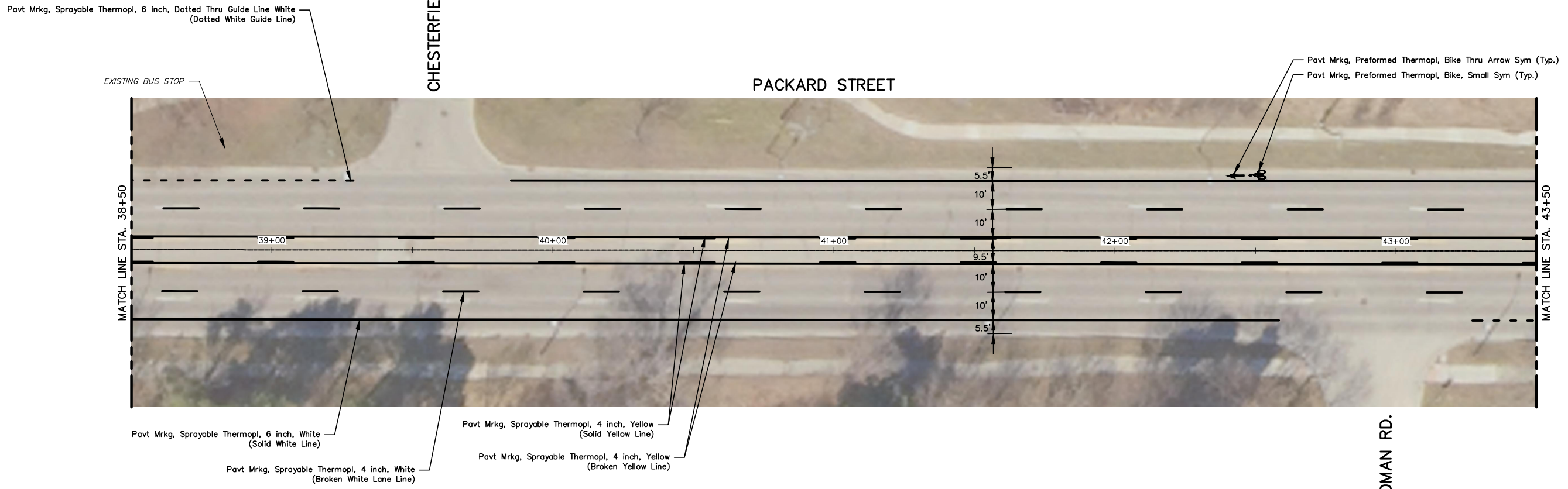
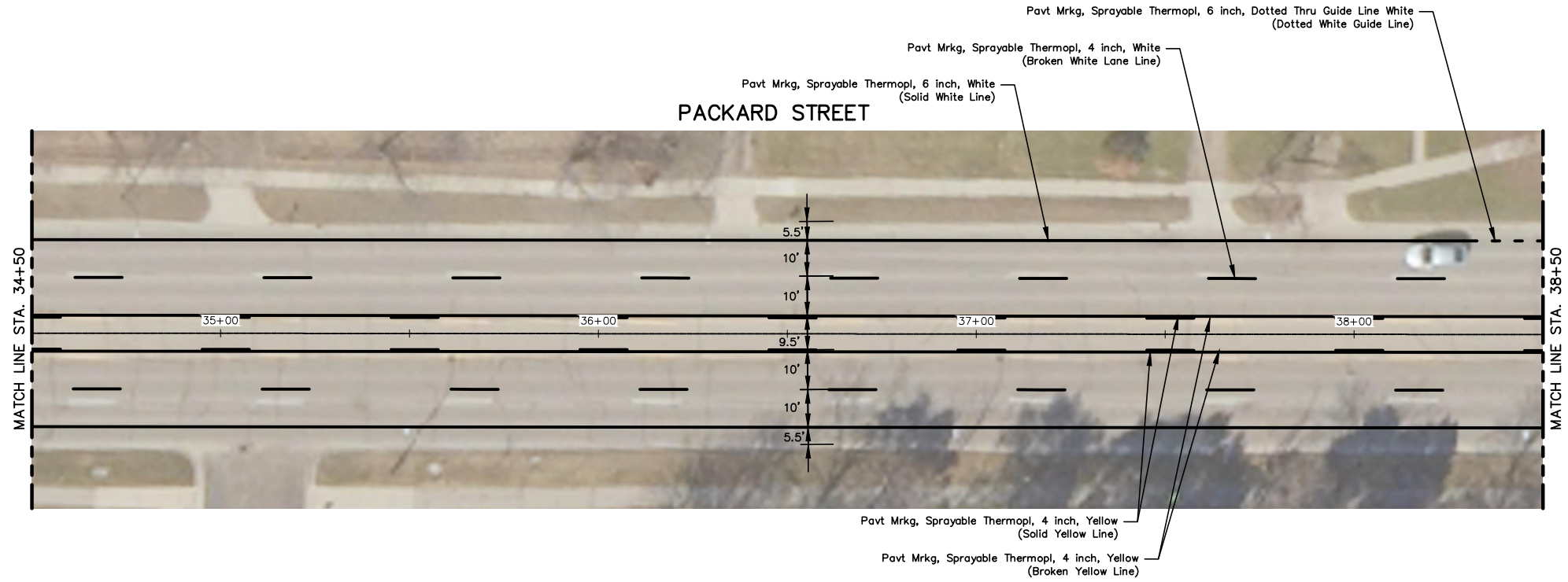


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTH STREETS PROGRAM  
PLAN - PACKARD STREET  
STA 25+50 TO STA 34+50

SCALE: PLAN: 1" = 20'  
DRAWING No.  
mo11.dwg



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.



- NOTES:
1. ALL LANE DIMENSIONS ARE FACE OF CURB TO FACE OF CURB.
  2. ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE REMOVED. QUANTITIES FOR THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS ARE INCLUDED.
  3. ALL PERMANENT SIGNING SHALL BE INSTALLED BY THE CITY OF ANN ARBOR.



REV.	DATE	DESCRIPTION	GH	GH	GH	CHECKED
03	4/06/2021	FINAL PLANS TO CITY	CGV	CGV	GH	
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW	CGV	CGV	GH	
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW	CGV	CGV	GH	

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0667  
 www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN - PACKARD STREET  
 34+50 TO STA 43+50

SCALE: PLAN: 1" = 20'  
 DRAWING No.  
 mof12.dwg





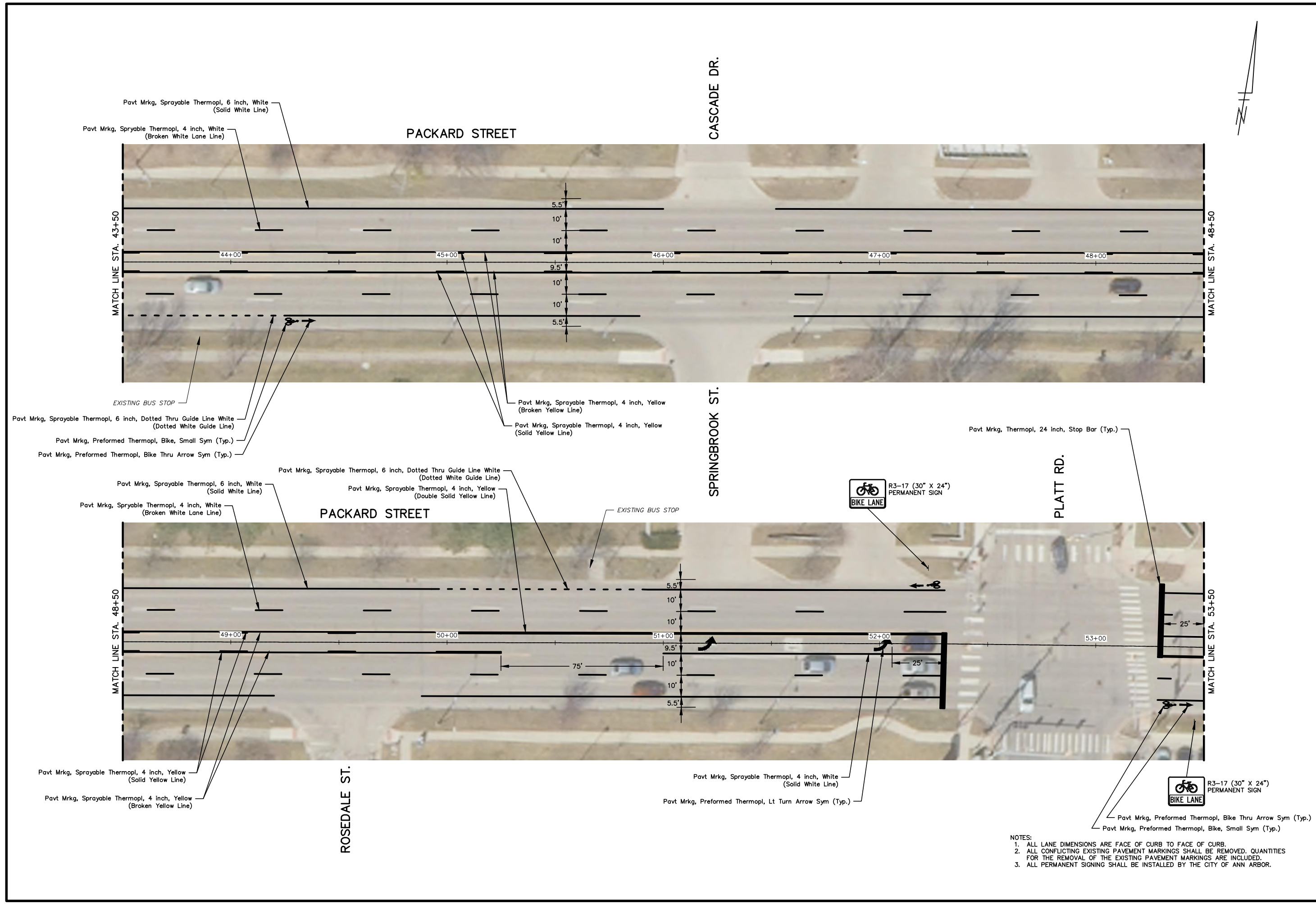
REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
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ANN ARBOR MI 48106-0667  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**

PLAN - PACKARD STREET  
STA 43+50 TO STA 53+50



- NOTES:**
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Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
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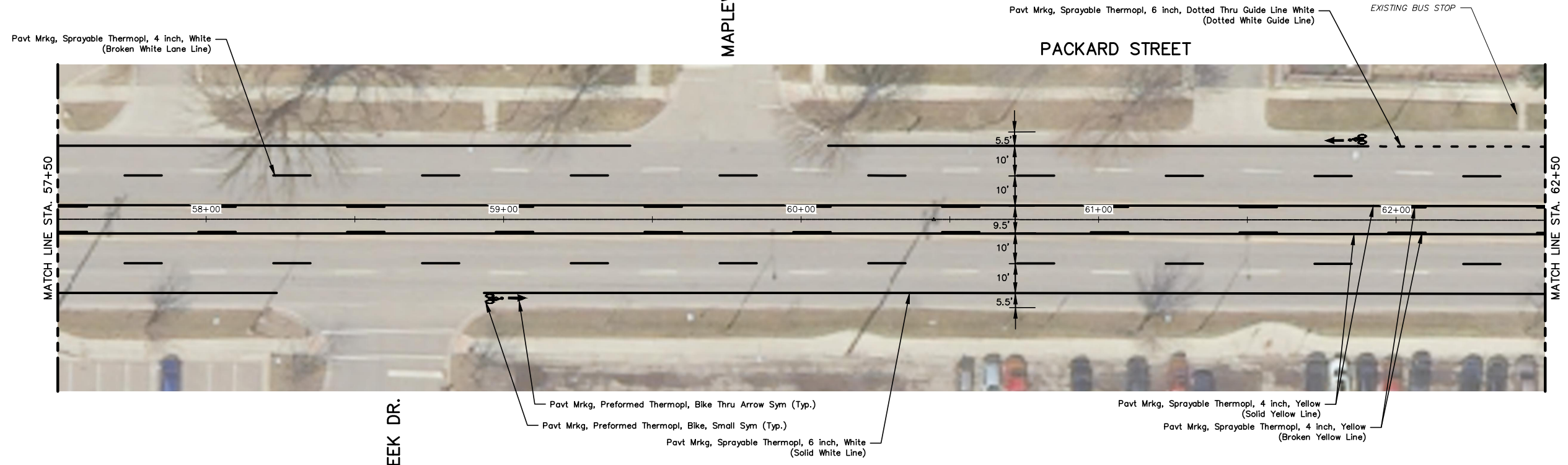
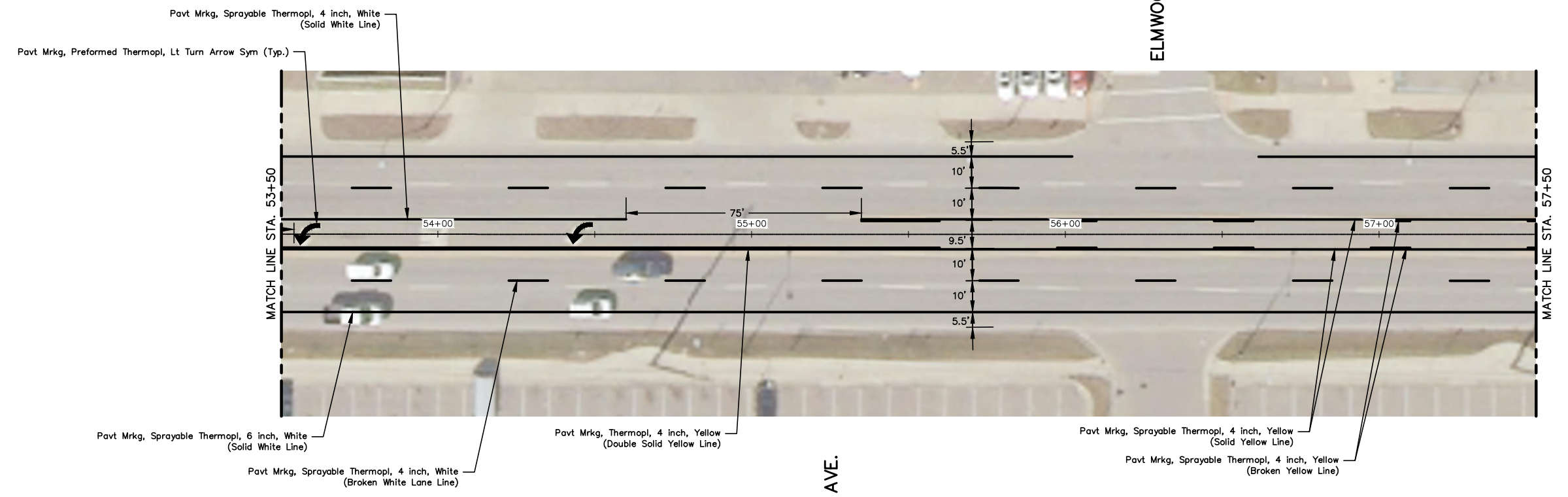
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**HEALTHY STREETS PROGRAM**  
 PLAN - PACKARD STREET  
 STA 53+50 TO STA 62+50  
 SCALE: PLAN: 1" = 20'  
 DRAWING No. mo14.dwg

ELMWOOD AVE.

MAPLEWOOD AVE.

PACKARD STREET

CREEK DR.



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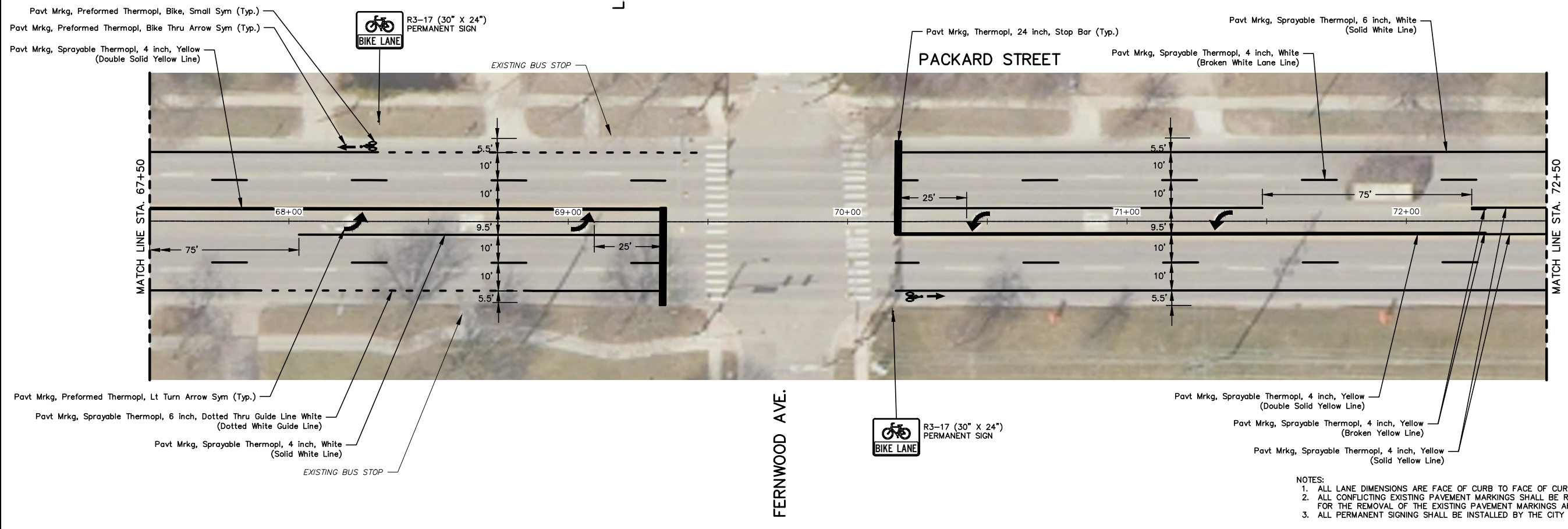
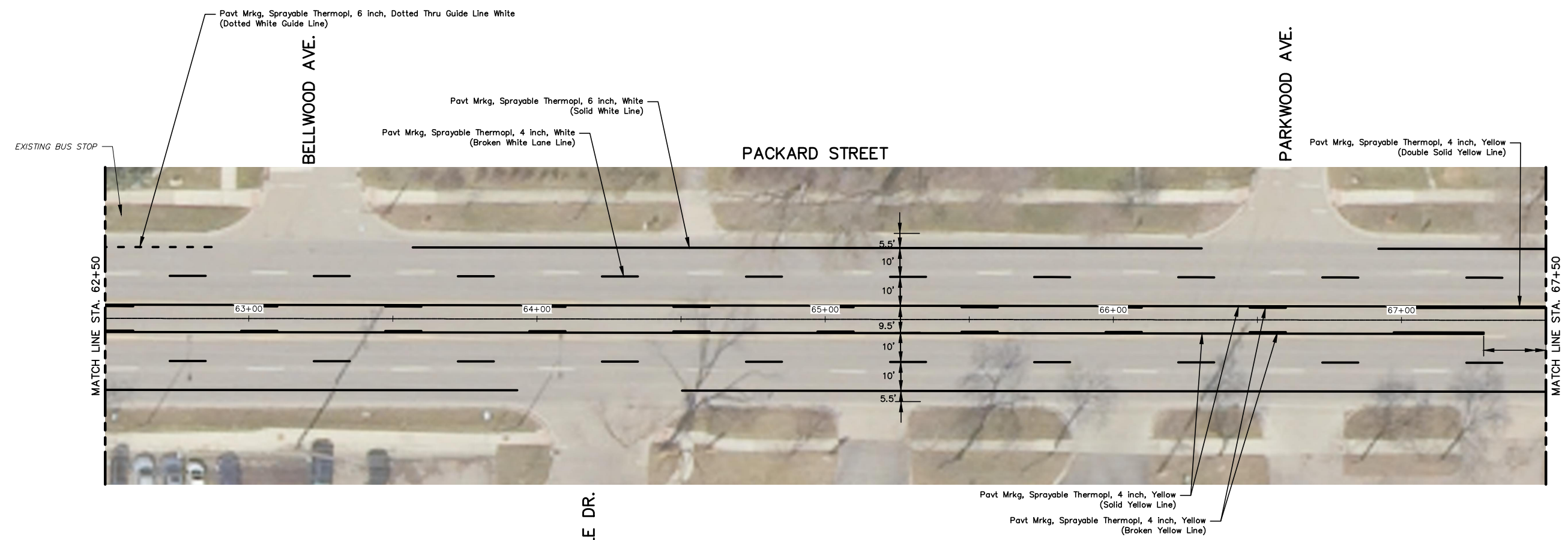
REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0667  
 www.a3gov.org

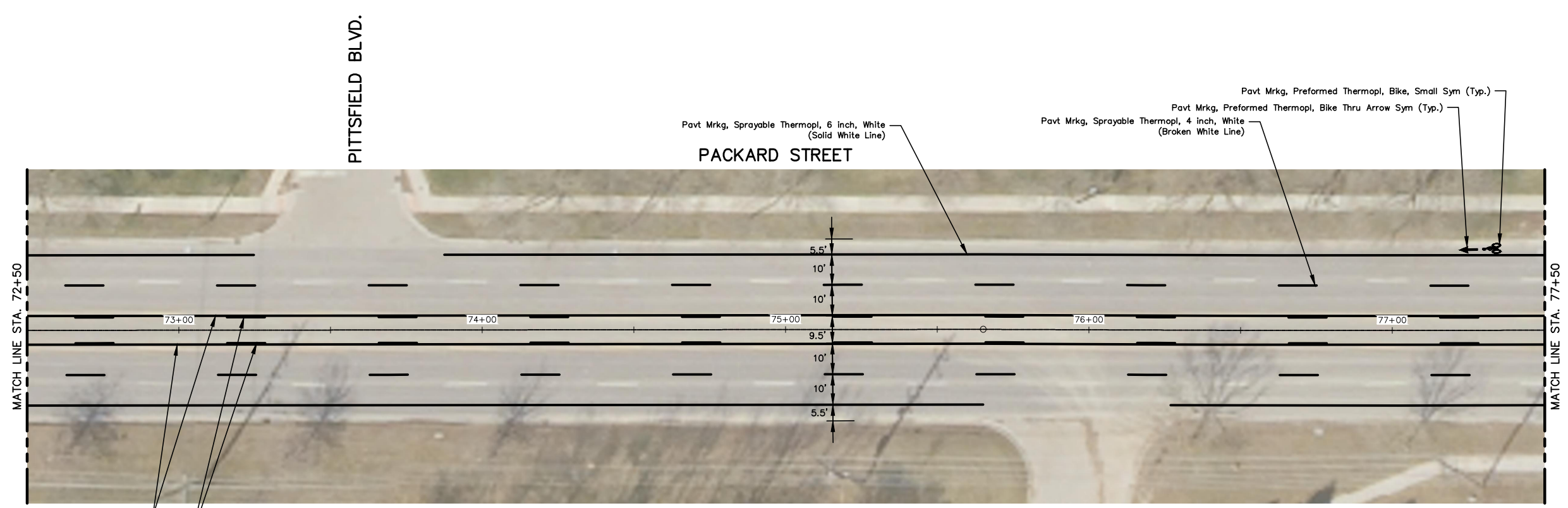


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN - PACKARD STREET  
 STA 62+50 TO STA 72+50

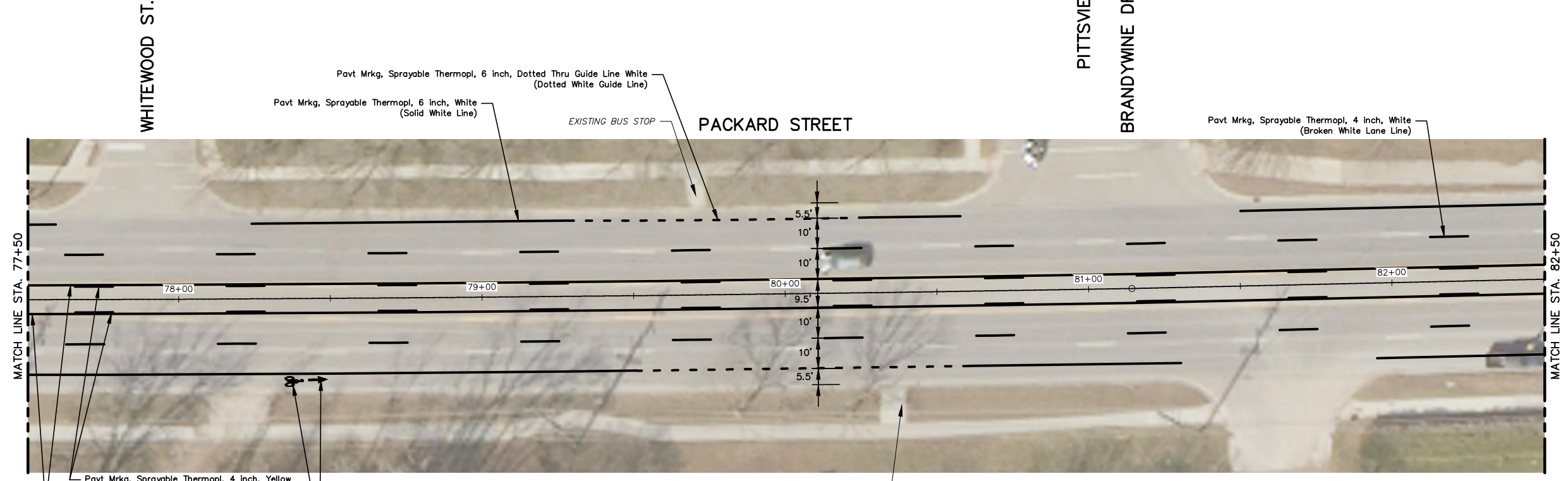
SCALE: PLAN: 1" = 20'  
 DRAWING No. mof15.dwg



- NOTES:
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Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Solid Yellow Line)  
 Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Broken Yellow Line)



Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Broken Yellow Line)  
 Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Solid Yellow Line)  
 Pavt Mrkg, Preformed Thermopl, Bike Thru Arrow Sym (Typ.)  
 Pavt Mrkg, Preformed Thermopl, Bike, Small Sym (Typ.)

CHARING CROSS RD.

- NOTES:
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL PLANS TO CITY	4/06/2021	GH	GH
02	ISSUED FOR FINAL CITY REVIEW	4/01/2021	GH	GH
01	ISSUED FOR INITIAL CITY REVIEW	3/23/2021	GH	GH

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
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 ANN ARBOR, MI 48106-0667  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 HEALTHY STREETS PROGRAM  
 PLAN AND PROFILE - PACKARD STREET  
 STA 72+50 TO STA 82+50

SCALE: PLAN: 1" = 20'  
 DRAWING No. mof16.dwg



Know what's below.  
Call before you dig.

REV.	DATE	DESCRIPTION
03	4/06/2021	FINAL PLANS TO CITY
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-0667  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROJECT  
PLAN - PACKARD STREET  
STA 82+50 TO STA 91+50

SCALE: PLAN: 1" = 20'  
DRAWING No.  
mo17.dwg

Pavt Mrkg, Sprayable Thermopl, 6 inch, White (Solid White Line)  
Pavt Mrkg, Sprayable Thermopl, 4 inch, White (Broken White Lane Line)

PACKARD STREET



Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Solid Yellow Line)  
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Broken Yellow Line)

Pavt Mrkg, Preformed Thermopl, Bike, Small Sym (Typ.)  
Pavt Mrkg, Preformed Thermopl, Bike Thru Arrow Sym (Typ.)

R3-17 (30" X 24")  
PERMANENT SIGN  
BIKE LANE

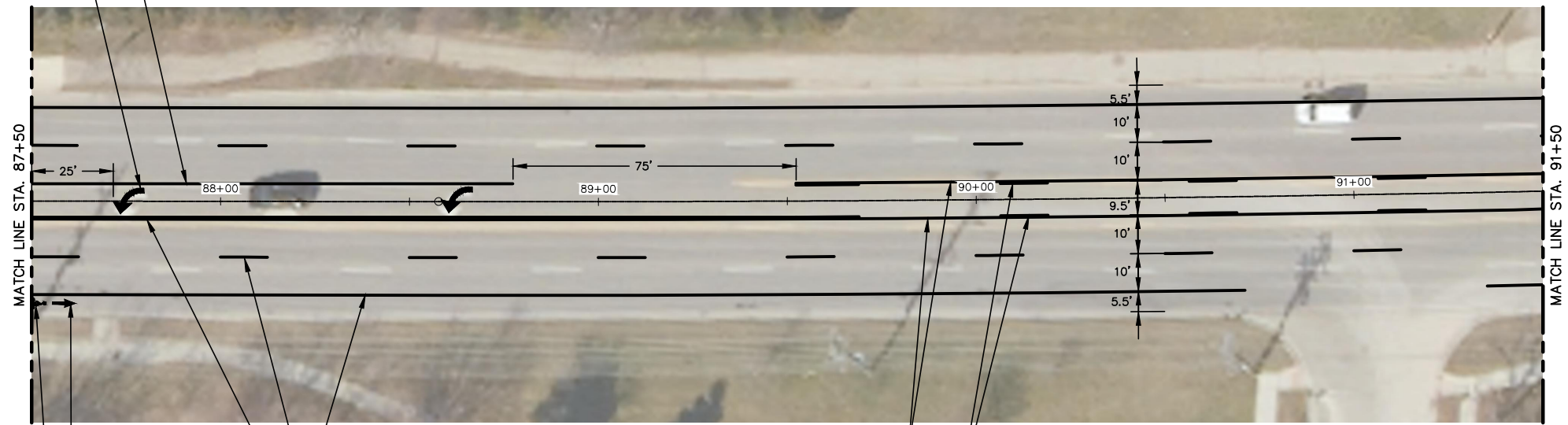
Pavt Mrkg, Thermopl, 24 inch, Stop Bar (Typ.)

R3-17 (30" X 24")  
PERMANENT SIGN  
BIKE LANE

TURNBERRY LN.

Pavt Mrkg, Sprayable Thermopl, 4 inch, White (Solid White Line)  
Pavt Mrkg, Preformed Thermopl, Lt Turn Arrow Sym (Typ.)

PACKARD STREET



Pavt Mrkg, Preformed Thermopl, Bike, Small Sym (Typ.)  
Pavt Mrkg, Preformed Thermopl, Bike Thru Arrow Sym (Typ.)

Pavt Mrkg, Sprayable Thermopl, 6 inch, White (Solid White Line)  
Pavt Mrkg, Sprayable Thermopl, 4 inch, White (Broken White Lane Line)  
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Double Solid Yellow Line)

Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Solid Yellow Line)  
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow (Broken Yellow Line)

CHERRY TREE LN.

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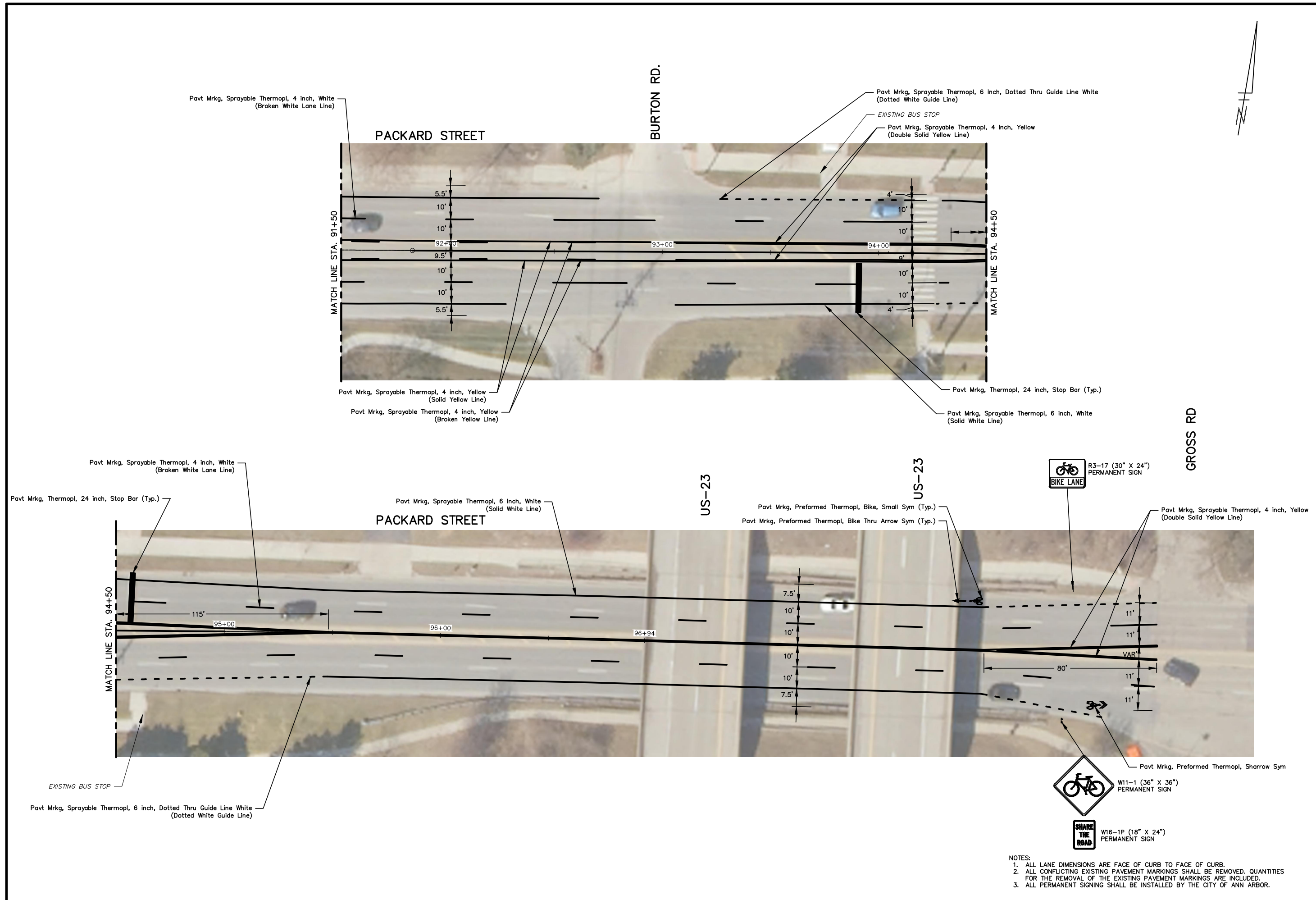
REV.	DATE	DESCRIPTION	CHKD.
03	4/06/2021	FINAL PLANS TO CITY	GH
02	4/01/2021	ISSUED FOR FINAL CITY REVIEW	GH
01	3/23/2021	ISSUED FOR INITIAL CITY REVIEW	GH

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
HEALTHY STREETS PROJECT  
PLAN - PACKARD STREET  
STA 91+50 TO P.O.E.

SCALE PLAN: 1" = 20'  
DRAWING No.  
mof18.dwg



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Healthy Streets Program  
 Engineer's Opinion of Probable Construction Cost

4/7/2021

HRC JN: 20210129

Pay Item	Quantity	Unit	Unit Price	Total Cost
Mobilization, Max	1	LSUM	\$ 20,000.00	\$ 20,000.00
Pavt Mrkg, Sprayable Thermopl, 4 inch, White	7200	Ft	\$ 0.50	\$ 3,600.00
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	25660	Ft	\$ 0.50	\$ 12,830.00
Pavt Mrkg, Sprayable Thermopl, 6 inch, White	14900	Ft	\$ 0.50	\$ 7,450.00
Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	650	Ft	\$ 5.00	\$ 3,250.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	560	Ft	\$ 10.00	\$ 5,600.00
Rem Spec Mrkg	5930	Sft	\$ 2.00	\$ 11,860.00
Witness, Log, \$1,000.00	1	Dlr	\$ 1,000.00	\$ 1,000.00
Pavt Mrkg, Sprayable Thermopl, 6 inch, Dotted Thru Guide Line, White	680	Ft	\$ 3.00	\$ 2,040.00
Pavt Mrkg, Preformed Thermopl, Bike Thru Arrow Sym	21	Ea	\$ 200.00	\$ 4,200.00
Pavt Mrkg, Preformed Thermopl, Bike, Small Sym	21	Ea	\$ 220.00	\$ 4,620.00
Pavt Mrkg, Preformed Thermopl, Lt Turn Arrow Sym	12	Ea	\$ 200.00	\$ 2,400.00
Pavt Mrkg, Preformed Thermopl, Sharrow Sym	1	Ea	\$ 300.00	\$ 300.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	10	Ea	\$ 100.00	\$ 1,000.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	10	Ea	\$ 15.00	\$ 150.00
Channelizing Device, 42 inch, Fluorescent, Furn	100	Ea	\$ 20.00	\$ 2,000.00
Channelizing Device, 42 inch, Fluorescent, Oper	100	Ea	\$ 1.00	\$ 100.00
Lighted Arrow, Type C, Furn	2	Ea	\$ 500.00	\$ 1,000.00
Lighted Arrow, Type C, Oper	2	Ea	\$ 70.00	\$ 140.00
Minor Traf Devices	1	LSUM	\$ 15,000.00	\$ 15,000.00
Mobile Attenuator	2	Ea	\$ 3,200.00	\$ 6,400.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	55910	Ft	\$ 0.70	\$ 39,137.00
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	150	Ft	\$ 1.00	\$ 150.00
Pavt Mrkg, Type NR, Paint, 24 inch, Stop Bar	250	Ft	\$ 7.00	\$ 1,750.00
Pavt Mrkg, Type NR, Paint, Lt Turn Arrow	4	Ea	\$ 90.00	\$ 360.00
Pavt Mrkg, Type NR, Paint, Rt Turn Arrow	2	Ea	\$ 90.00	\$ 180.00
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp	8500	Ft	\$ 0.50	\$ 4,250.00
Plastic Drum, Fluorescent, Furn	50	Ea	\$ 25.00	\$ 1,250.00
Plastic Drum, Fluorescent, Oper	50	Ea	\$ 1.00	\$ 50.00
Sign Cover	75	Ea	\$ 30.00	\$ 2,250.00
Sign, Portable, Changeable Message, Furn	2	Ea	\$ 2,500.00	\$ 5,000.00
Sign, Portable, Changeable Message, Oper	2	Ea	\$ 300.00	\$ 600.00
Sign, Type B, Temp, Prismatic, Furn	94	Sft	\$ 5.00	\$ 470.00
Sign, Type B, Temp, Prismatic, Oper	94	Sft	\$ 1.00	\$ 94.00
Traf Regulator Control	1	LSUM	\$ 15,000.00	\$ 15,000.00
Pavt Mrkg, Wet Reflective, Type NR, Paint, 6 inch, White, Temp	13000	Ft	\$ 0.70	\$ 9,100.00
Pavt Mrkg, Wet Reflective, Type NR, Paint, 12 inch, White, Temp	150	Ft	\$ 1.00	\$ 150.00
Pavt Mrkg, Type NR, Paint, Only	2	Ea	\$ 110.00	\$ 220.00
Pavt Mrkg, Type NR, Paint, Direction Arrow Sym, Bike	15	Ea	\$ 80.00	\$ 1,200.00
Pavt Mrkg, Type NR, Paint, Bike, Small Sym	15	Ea	\$ 120.00	\$ 1,800.00
Pavt Mrkg, Type NR, Paint, Sharrow Sym	2	Ea	\$ 100.00	\$ 200.00
Pavt Mrkg, Type NR, Paint, 12 inch, Cross Hatching, White	2000	Ft	\$ 5.00	\$ 10,000.00
Lane Separator System	67	Ea	\$ 300.00	\$ 20,100.00
<b>Total Construction Cost</b>				<b>\$ 218,251.00</b>
<b>Engineer's Estimate</b>				<b>\$ 197,000.00</b>
<b>to</b>				<b>\$ 241,000.00</b>

Prepared By: Hubbell, Roth &amp; Clark, Inc.

555 Hulet Drive

Bloomfield Hills, Michigan 48302