

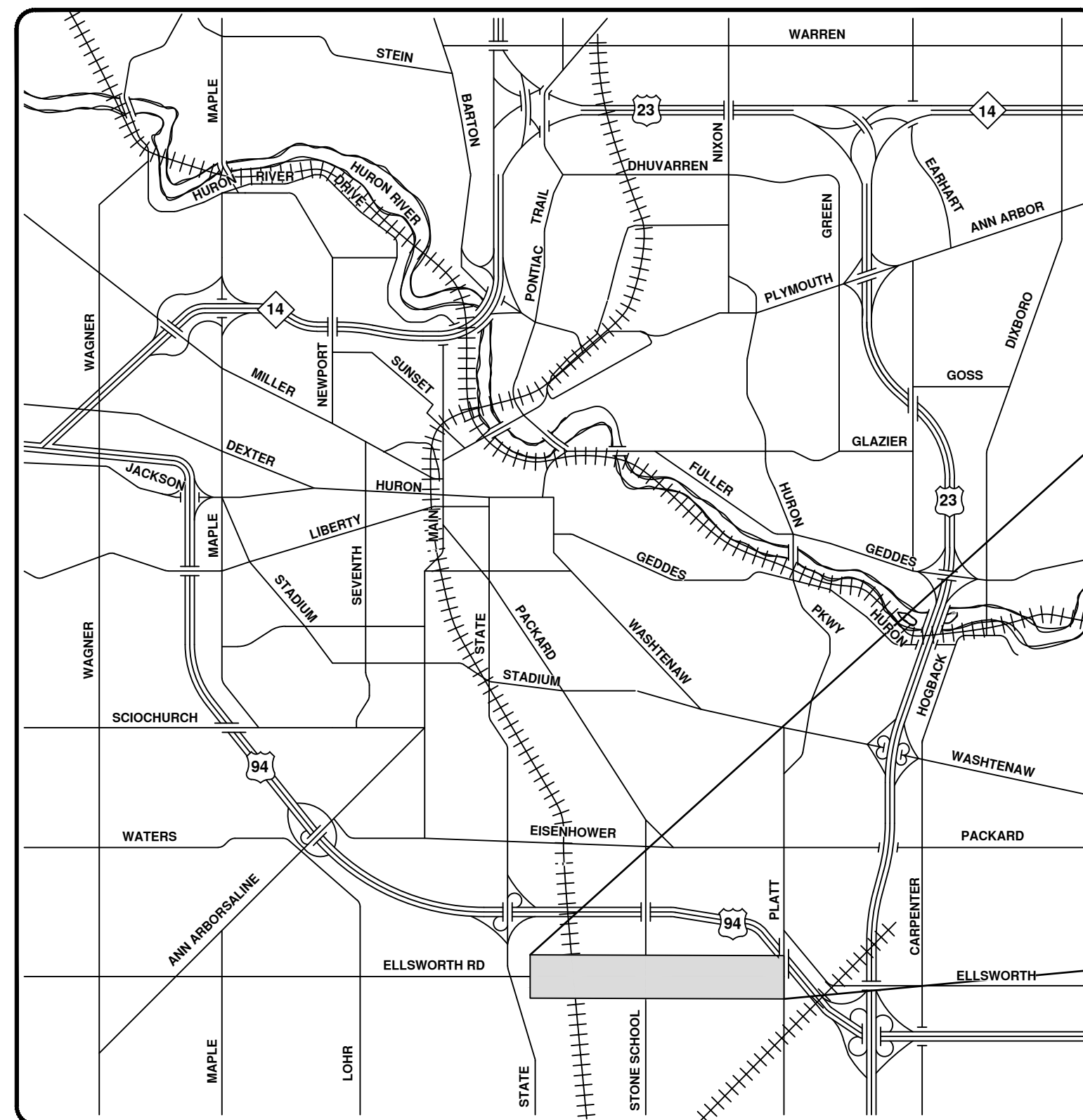
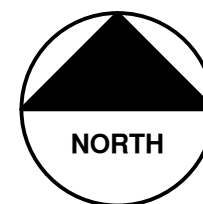


# CITY OF ANN ARBOR ENGINEERING

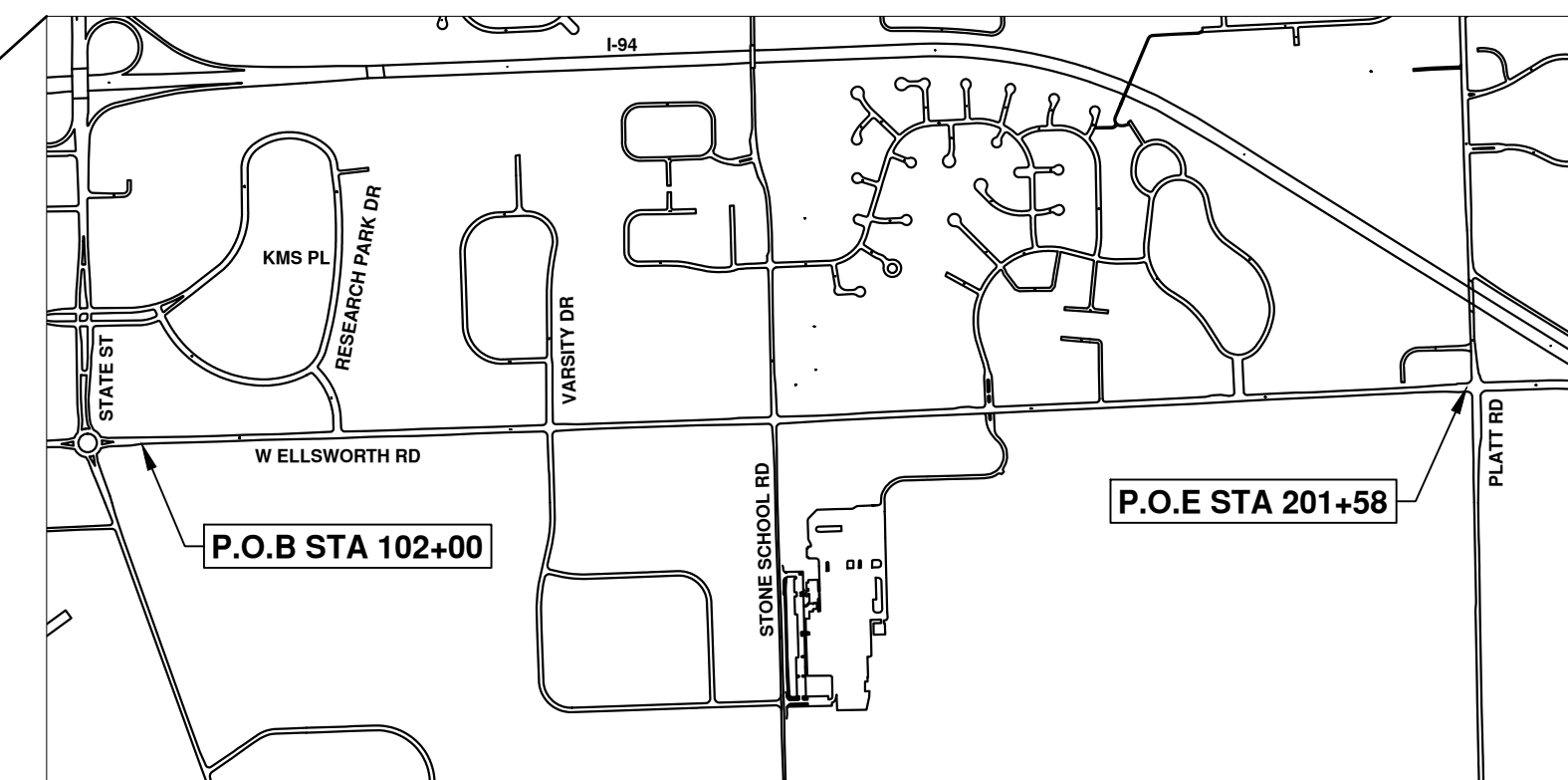
## ELLSWORTH RD RESURFACING

LIST OF DRAWINGS	
Sheet Number	Sheet Title
01	COVER
02	LEGEND
03	NOTES
04-05	TYPICAL SECTIONS
06	SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
07-18	REMOVAL & PAVING PLANS
19-30	PAVEMENT STRIPING PLANS
31	MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
32	MAINTENANCE OF TRAFFIC - DETOUR PLAN

RFP No. 23-23, FILE No. 2022010



VICINITY MAP



STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDT STANDARD PLANS GIVEN BELOW.

TRAFFIC AND SAFETY STANDARD PLANS

- WZD-100-A GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS \*
- WZD-125-E TEMPORARY TRAFFIC CONTROL DEVICES \*

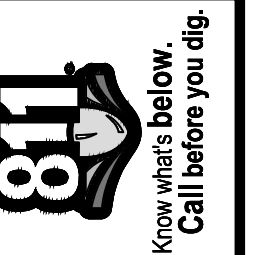
\* = SPECIAL DETAILS LOCATED IN THE PROPOSAL

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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO AASHTO, THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MDOT STANDARD PLANS, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
RESURFACING OF ELLSWORTH ROAD

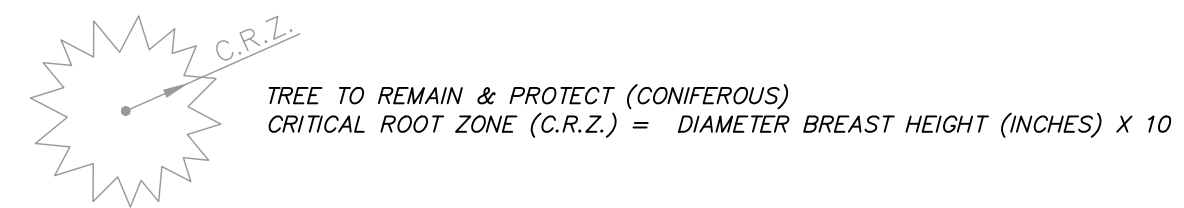
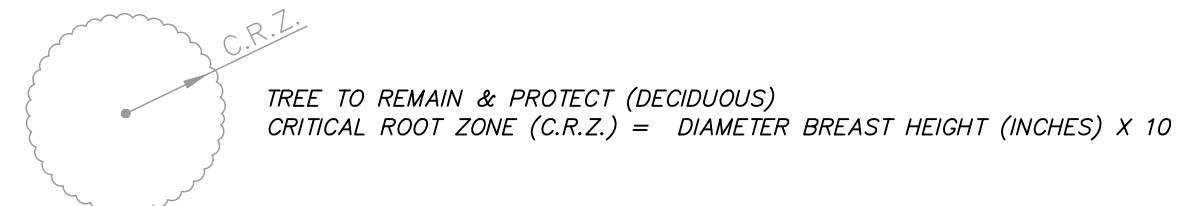
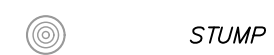
PREPARED UNDER THE SUPERVISION OF

JEREMY SCHROT, P.E.  
PROJECT MANAGER  
DATE / / 2023

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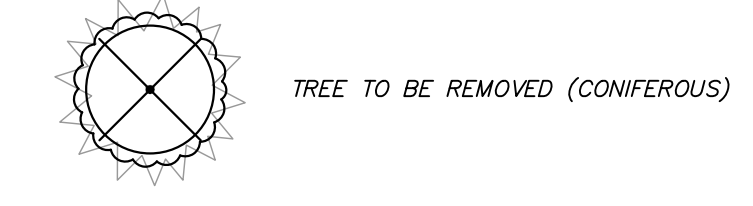
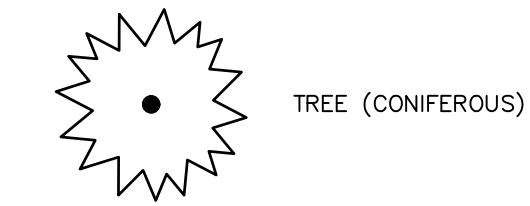
**EXISTING LEGEND**

EX = EXISTING		
FIRE HYDRANT	WATER MAIN	
GATE VALVE IN BOX	WATER MAIN ABANDONED	
GATE VALVE IN WELL	STORM SEWER	
STOP BOX	STORM SEWER ABANDONED	
WATER VAULT	SANITARY SEWER	
WELL	SANITARY SEWER ABANDONED	
CATCH BASIN (SQ)	GAS MAIN	
CATCH BASIN (RD)	GAS MAIN (DEAD)	
STORM MANHOLE	ELECTRICAL OVER HEAD	
NON-CURB CATCH BASIN (SQ)	ELECTRICAL UNDER GROUND	
END SECTION	ELECTRICAL DUCT BANK	
SANITARY MANHOLE	TELEPHONE OVER HEAD	
CLEAN-OUT	TELEPHONE UNDER GROUND	
POST	TELEPHONE DUCT BANK	
PEDESTRIAN SIGNAL	CABLE TV OVER HEAD	
SIGN	CABLE TV UNDER GROUND	
HAND HOLE	FIBER OPTIC	
ORNAMENTAL LIGHT	FIBER OPTIC DUCT BANK	
FLOOD LIGHT	BOUNDARY	
UNKNOWN MANHOLE	BUILDING	
TELEPHONE MANHOLE	CENTERLINE OF DITCH	
TELEPHONE RISER	CENTERLINE/CROWN OF ROAD	
GAS VALVE	CONTOUR MAJOR	
GAS VENT	CONTOUR MINOR	
GAS BOX	EDGE OF WATER	
ELECTRICAL RISER	FLOODPLAIN	
TRANSFORMER	FENCE	
UTILITY POLE	GRAVEL	
LAMP POLE	GUARDRAIL	
GUY ANCHOR	STONE WALL	
GUY POLE	R.O.W.	
MONITORING WELL	TREELINE	
MAILBOX	WETLAND	
SOIL BORING	EDGE OF BRUSH	
TRAVERSE POINT	HEDGE	
BENCH MARK		
IRON PIPE		
MON BOX		



**PROPOSED LEGEND**

PROP = PROPOSED		
HYDRANT (PLAN)	WATER MAIN	
WATER GATE WELL	STORM SEWER	
REDUCER	SANITARY SEWER	
WATER GATE VALVE	FIBER OPTIC	
WATER STOP BOX	ELECTRICAL	
WATER VAULT	CENTERLINE OF DITCH	
INLET	CENTERLINE OF ROAD	
DOUBLE INLET	FENCE	
INLET JUNCTION CHAMBER	GRAVEL	
ROUND CATCH BASIN	SILT FENCE	
STORM MANHOLE	PROTECTIVE FENCE	
DRAIN ARROW	GUARDRAIL	
FLARED END SECTION	LOT/JUNIT	
SANITARY MANHOLE	CURB	
CLEAN-OUT	TEMPORARY GRADING PERMIT	
BARREL	CONTOUR MAJOR	
SIGN	CONTOUR MINOR	
PUSH BUTTON	WATER EASEMENT	
HAND HOLE	STORM EASEMENT	
	SANITARY EASEMENT	
	R.O.W.	
	LIMITS OF CONSTRUCTION	
	LIMIT OF GRADING	
	STONE WALL	



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
LEGEND



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**CONSTRUCTION NOTES:**

1. Driveways and entrances to buildings, real estate 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.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions, Max \$ \_".
6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.
7. City of Ann Arbor Public Works will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Public Works.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.
9. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
10. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
11. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
12. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions, Max \$ \_".
13. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
14. Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
15. The location of material stock piles and on-site staging areas to be approved by the Engineer.
16. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
17. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
18. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
19. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
20. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "Machine Grading, Modified".
21. In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-ID-11, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2" below top of proposed pavement.

MISCELLANEOUS QUANTITIES

Item	Quantity	Unit
_Railroad Protection, at Grade Crossing, Ann Arbor Railroad	2000	Dir
_General Conditions, Max \$ _	1	LSUM
_Project Supervision, Max \$ _	1	LSUM
_Digital Audio-Visual Coverage	1	LSUM
Project Cleanup	1	LSUM
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4	Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4	Ea
Pedestrian Type II Barricade, Temp	4	Ea
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, White, Temp	10505	Ft
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp	10505	Ft
Plastic Drum, Fluorescent, Furn	150	Ea
Plastic Drum, Fluorescent, Oper	150	Ea
Pavt Mrkg, Wet Reflective, Type R, Tape, 6 inch, Crosswalk	933	Ft
Pavt Mrkg, Wet Reflective, Type R, Tape, 24 inch, Stop Bar	423	Ft
Sign Cover	5	Ea
Sign, Type B, Temp, Prismatic, Furn	230	Sft
Sign, Type B, Temp, Prismatic, Oper	230	Sft
Traf Regulator Control	1	LSUM
_Minor Traffic Control, Max \$ _	1	LSUM

**PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.**

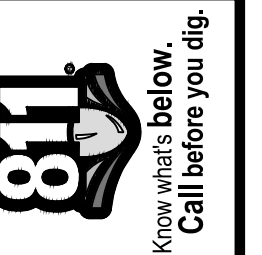
PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

**PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.**

PERMIT	ISSUING AUTHORITY

**CONTACT INFORMATION**

PUBLIC UTILITIES	OWNER	CONTACT
WATER	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY		
STORM		
FORESTRY		
SIGNS SIGNALS STREET LIGHTS		
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E MICHIGAN AVE YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
ELECTRIC	ITC 27175 ENERGY WAY NOVI, MI 48377	CHANELLE THOMAS (248) 946-3498
PHONE	AT&T 550 S MAPLE ROAD ANN ARBOR, MI 48103	MARC GOODELL (313) 405-0574
FIBER	WESTERN TELECOM	HEATHER SHAWL (616) 393-0138
FIBER OPTIC	ACD NET	JACOB LAPE (517) 999-3276



DATE	DESCRIPTION	REV.

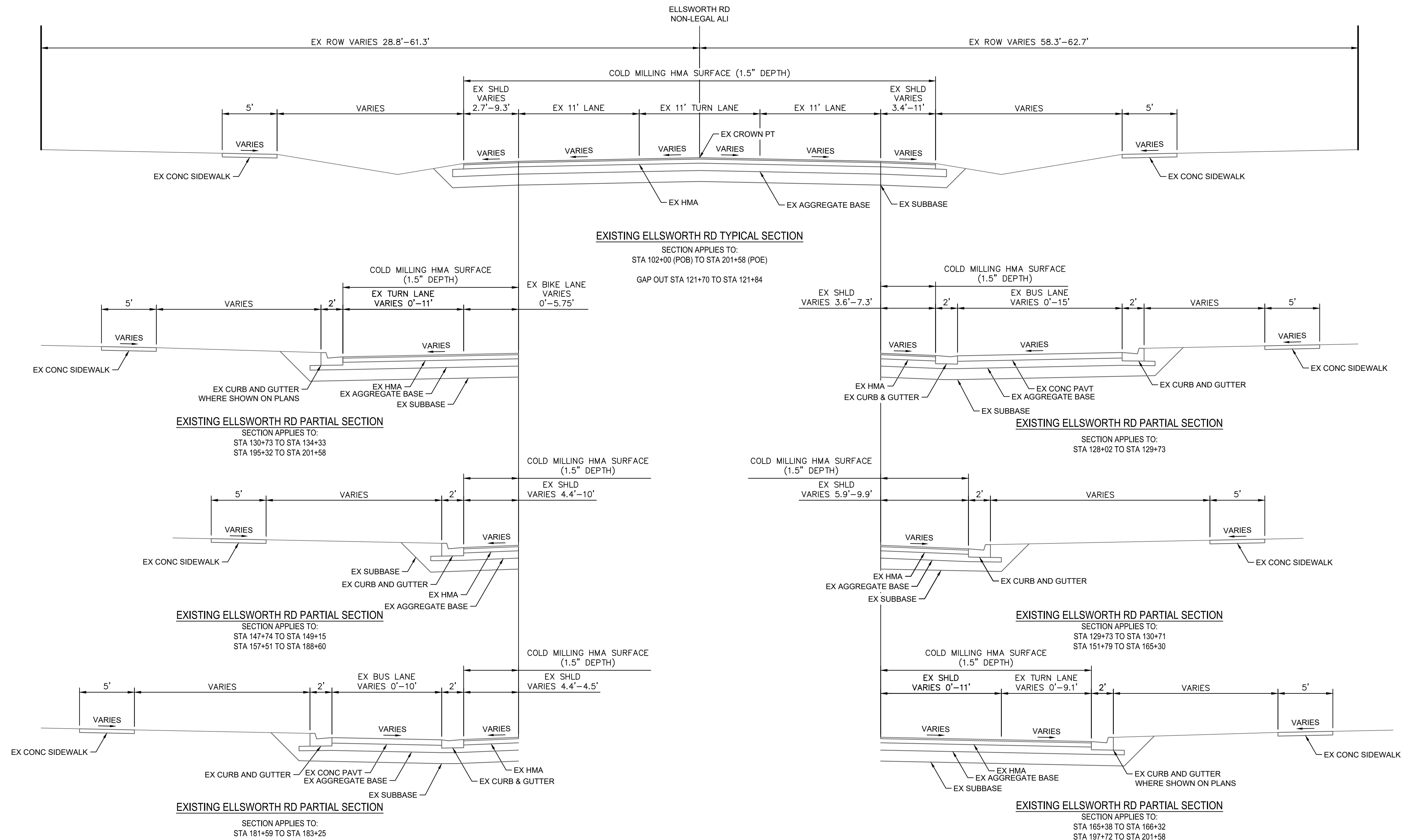
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734-794-6410  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
NOTES

SCALE : NTS  
DRAWING No. 2022010-03

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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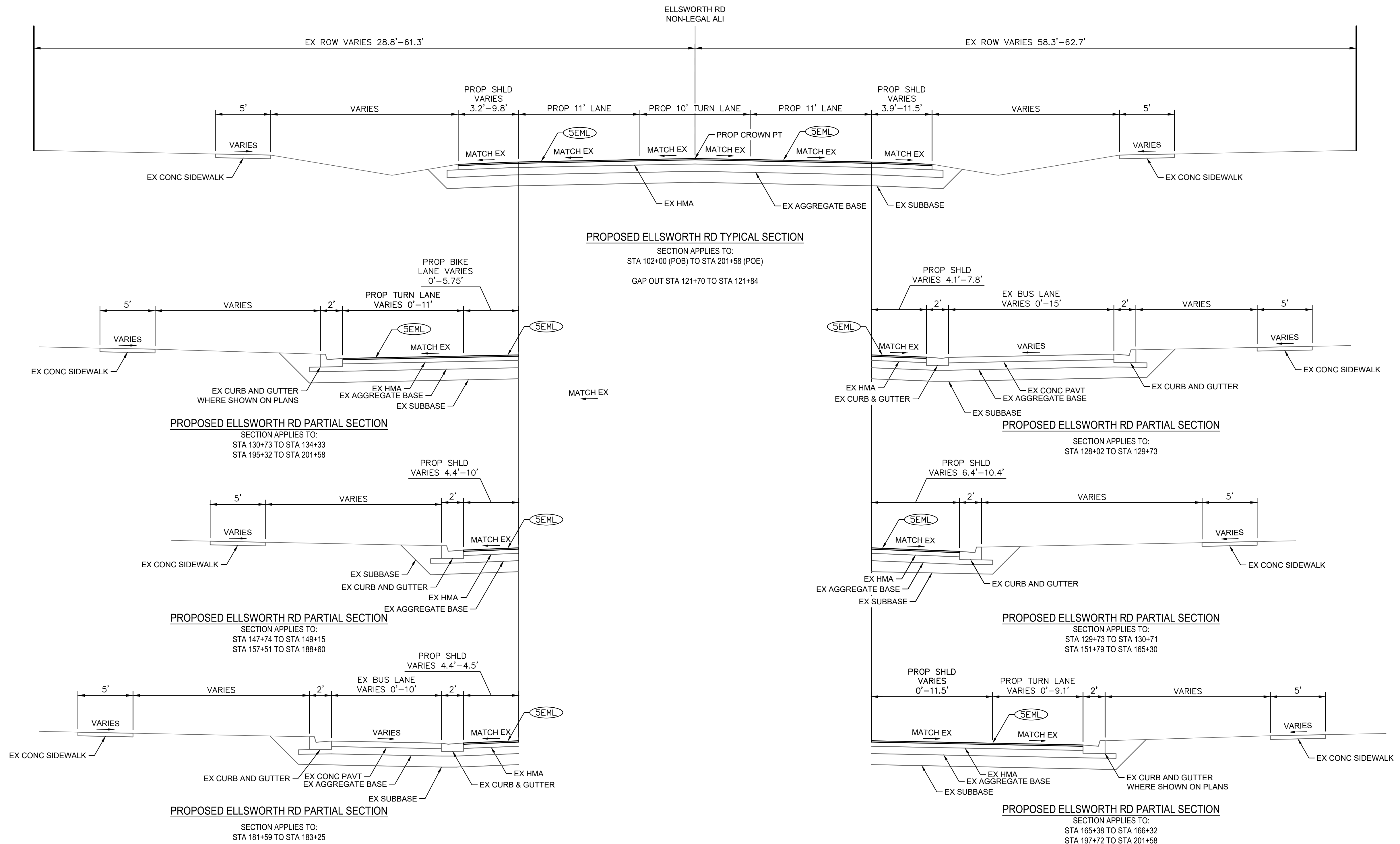


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ELLSWORTH RD RESURFACING**  
 IMPROVEMENTS PROJECT  
 TYPICAL SECTIONS

SCALE: 1" = 5'  
 DRAWING No. 2022010-04



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**PROPOSED ELLSWORTH RD TYPICAL SECTION**  
 SECTION APPLIES TO:  
 STA 102+00 (POB) TO STA 201+58 (POE)  
 GAP OUT STA 121+70 TO STA 121+84

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 130+73 TO STA 134+33  
 STA 195+32 TO STA 201+58

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 147+74 TO STA 149+15  
 STA 157+51 TO STA 188+60

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 181+59 TO STA 183+25

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 128+02 TO STA 129+73

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 129+73 TO STA 130+71  
 STA 151+79 TO STA 165+30

**PROPOSED ELLSWORTH RD PARTIAL SECTION**  
 SECTION APPLIES TO:  
 STA 165+38 TO STA 166+32  
 STA 197+72 TO STA 201+58

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
SEML	HMA, SEML	165	64-28	MAINLINE TOP COURSE - AWI 260
HA-1	HMA APPROACH	165	64-28	HMA, SEML; SIDE ROAD TOP COURSE
	* BOND COAT	0.05-0.15 GAL		

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT**  
 TYPICAL SECTIONS

Know what's below. Call before you dig.

811

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 734.794.6410  
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SCALE: 1" = 5'

DRAWING No. 2022010-05

DATE

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DESCRIPTION

SHEET No. 05 OF 32

2022010-05



**GENERAL**  
 NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR.
6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF

- WATER TRUCKS AND/OR OTHER METHODS APPROVED BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
  11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
  12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

**SEQUENCE OF EROSION CONTROL MEASURES:**

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

**SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:**

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL FINE GRADING.

- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- 1.9. CLEAN OUT STORM SEWER SYSTEMS.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.11. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

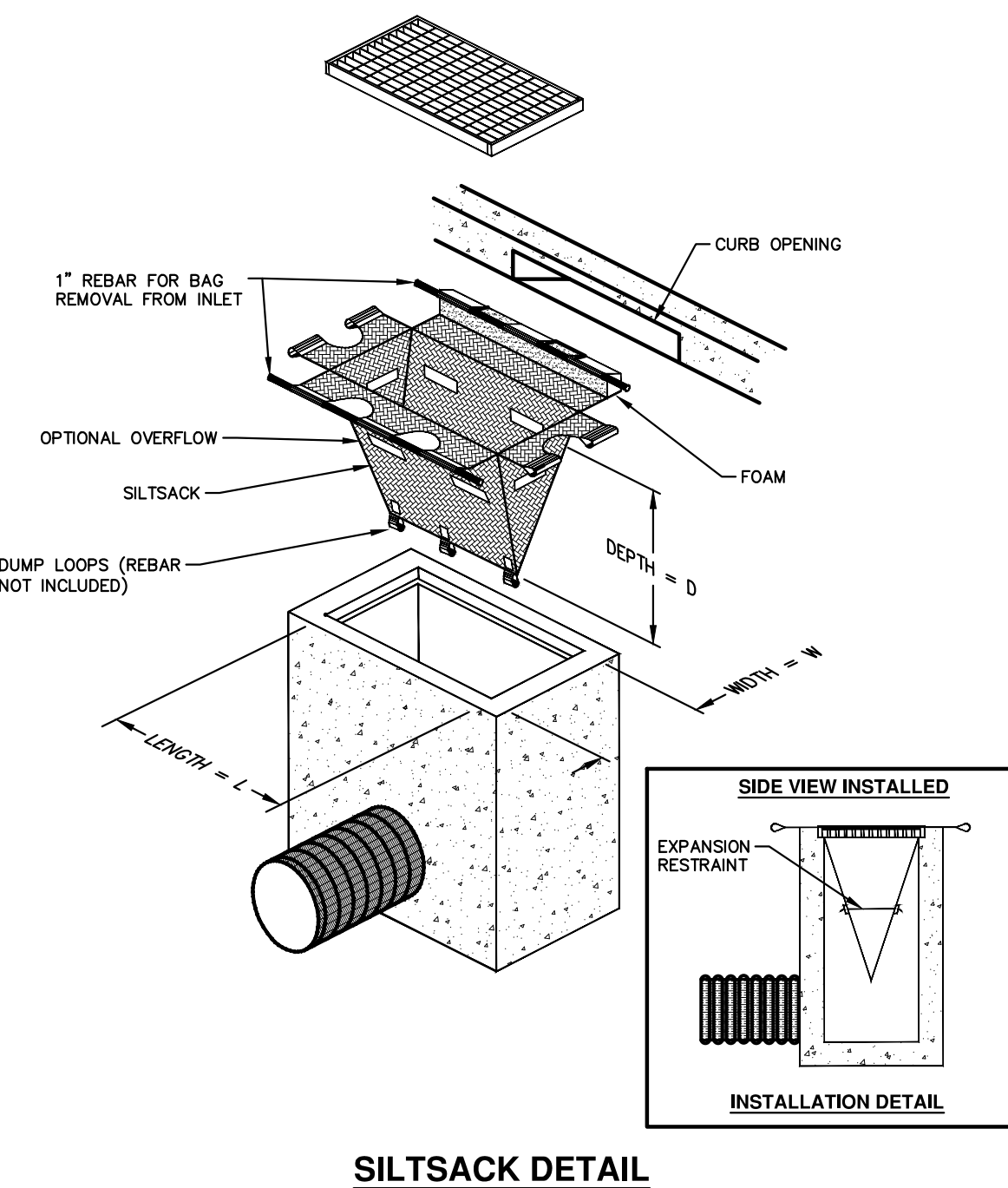
**TEMPORARY SEEDING:**

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTEAW COUNTY, MICHIGAN:

- BbB - BLOUNT LOAM - 2% TO 6% SLOPES.
- CpA - CONOVER BROOKSTON LOAMS - 0% TO 2% SLOPES
- Pe - PEWAMO CLAY LOAM - 0% TO 2% SLOPES
- StB - ST. CLAIR CLAY LOAM, 2% TO 6% SLOPES
- WgA - WAWASEE LAOM, 2% TO 6% SLOPES

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NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

**REGULAR FLOW SILTSACK**

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSF
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

**HI-FLOW SILTSACK**

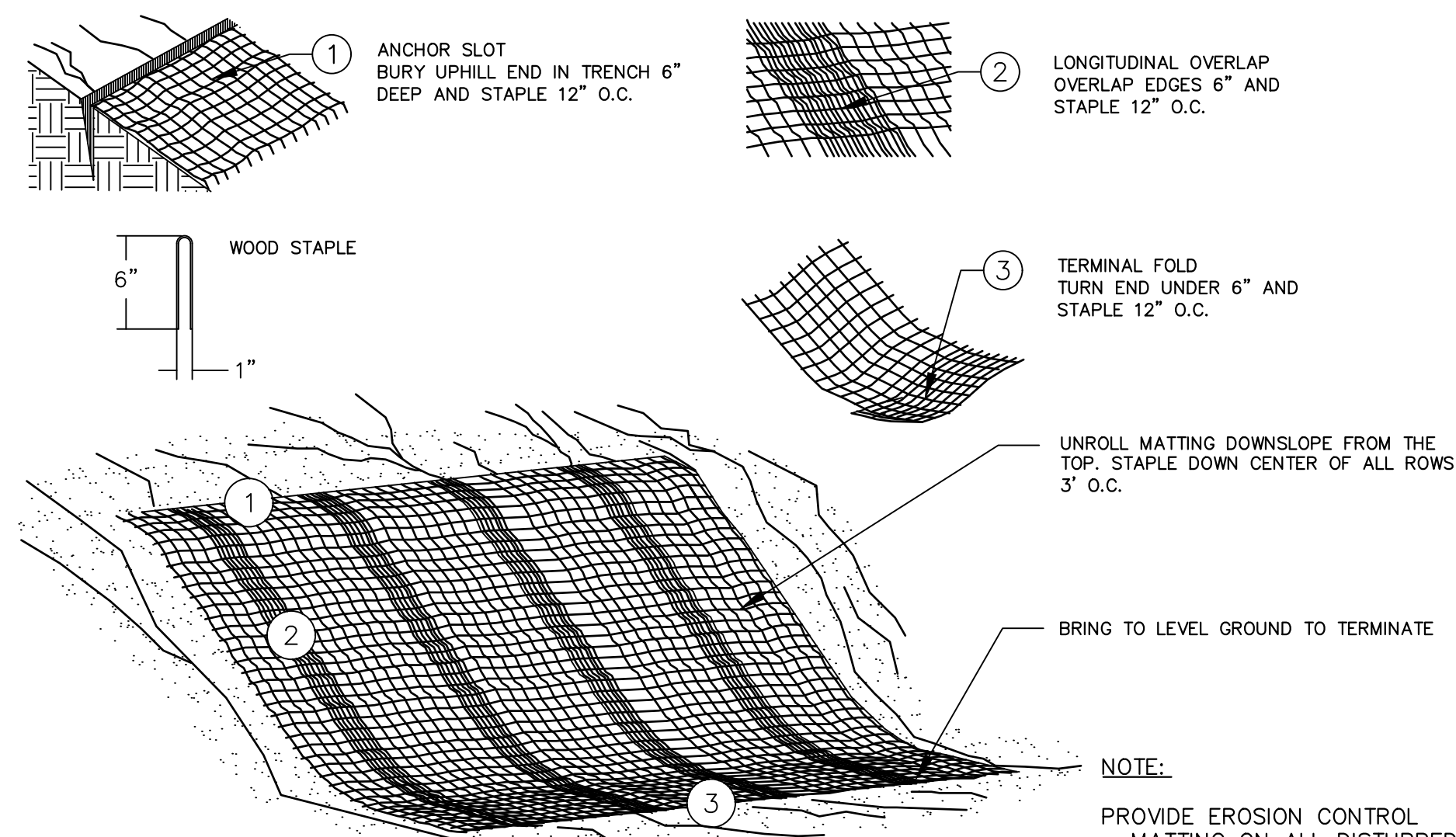
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSF
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

**OIL-ABSORBANT SILTSACK**

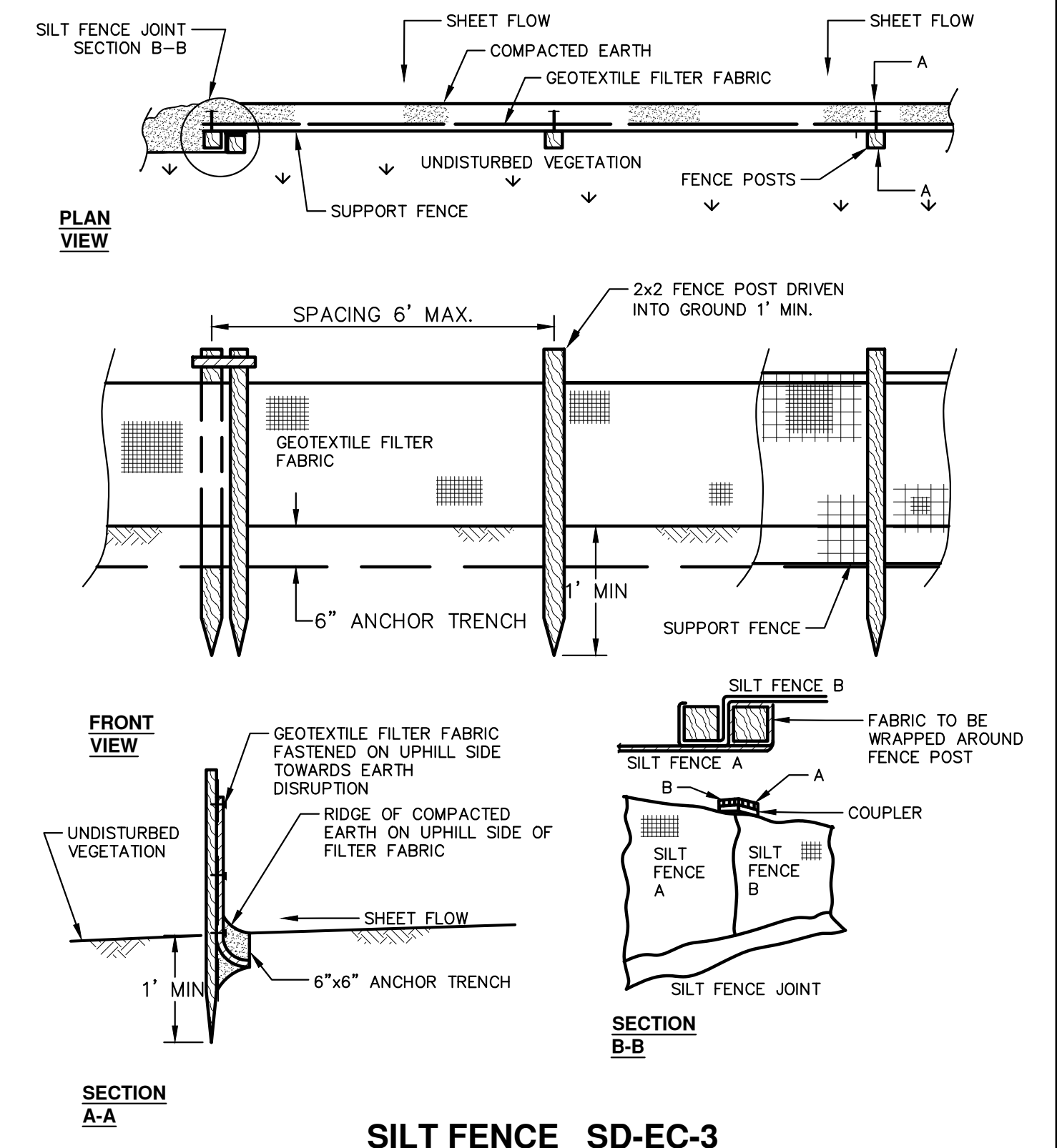
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.



**MULCH BLANKET DETAIL**

APPLIES TO ALL AREAS TO BE PERMANENTLY RESTORED WITH GRASS. SEE LANDSCAPE PLANS FOR MORE DETAILS.



**SILT FENCE SD-EC-3**

REV.	DATE	DRAWN	CHECKED	DESCRIPTION

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT**  
 SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

SCALE: NTS

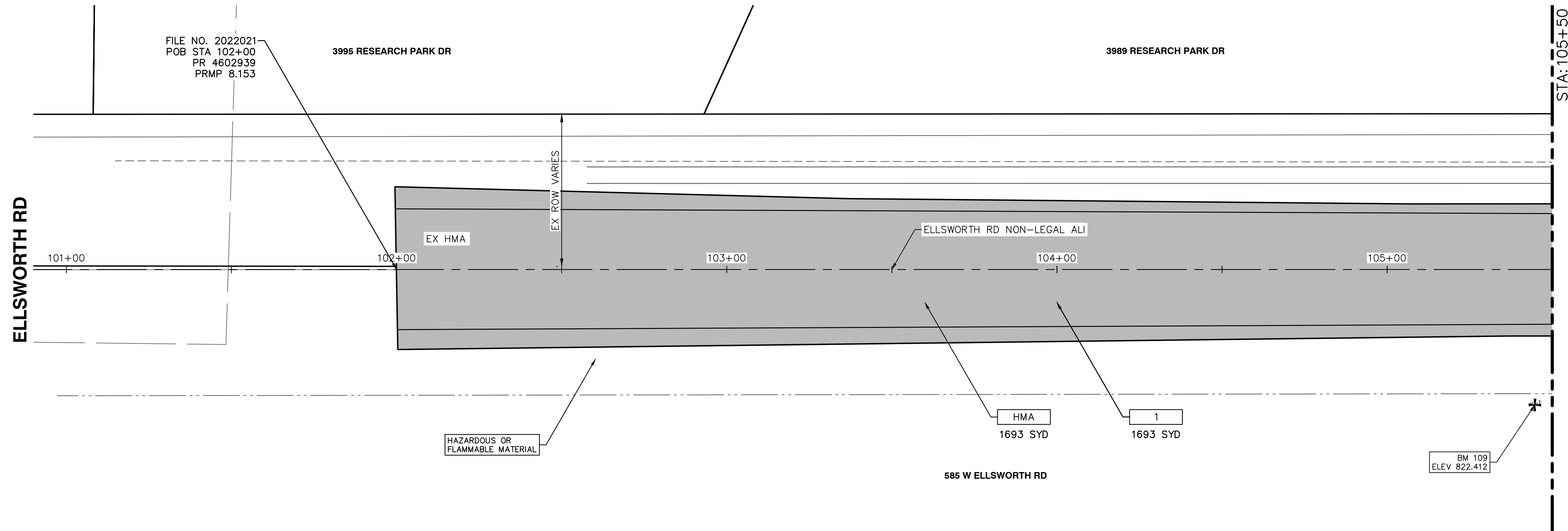
DRAWING No. 2022010-06

SHEET No. 06 OF 32

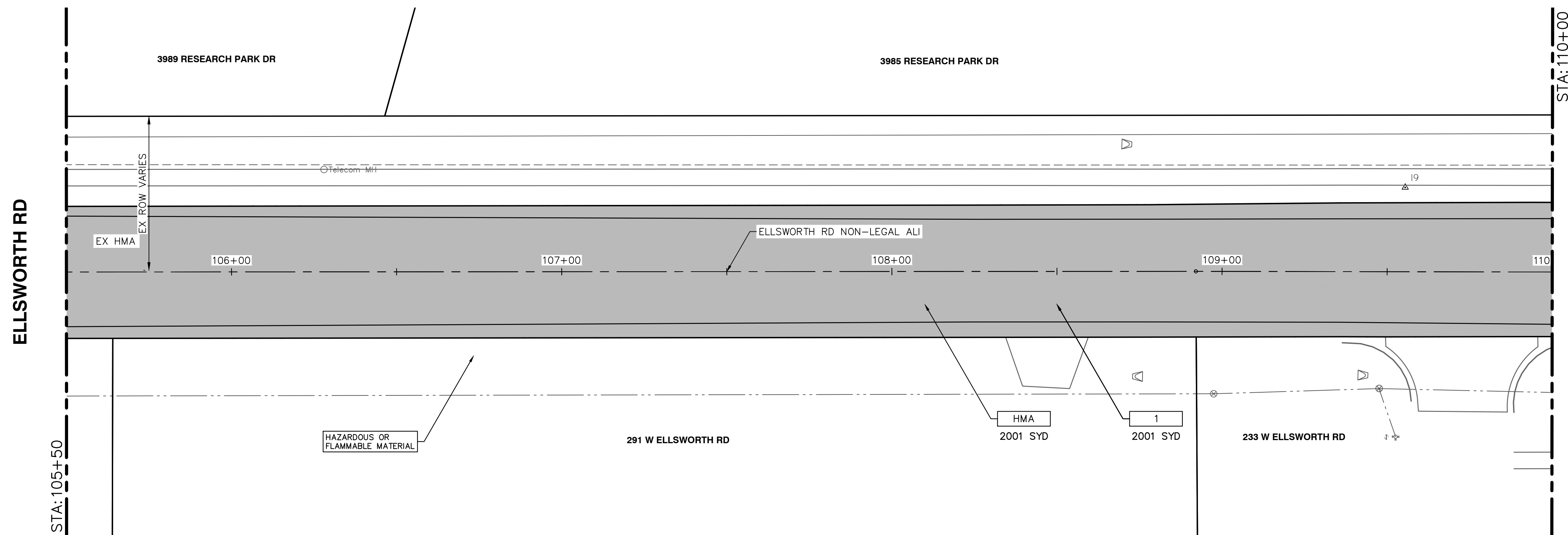
CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 ANN ARBOR: 734-794-6410  
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**REMOVAL & PAVING PLAN - STA 102+00 (POB) TO STA 105+50**



**REMOVAL & PAVING PLAN - STA 105+50 TO STA 110+00**

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA


  

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
109	822.412	TOP OF SOUTHEAST BOLT ON FIRE HYDRANT. LOCATED ON THE SOUTH SIDE OF ELLSWORTH, +/-900' EAST OF STATE STREET, +/- 15' WEST OF DRIVEWAY TO YELLOW BLOCK BUILDING.


SESC & REMOVAL QUANTITIES - THIS SHEET		
Item	Quantity	Unit
Cold Milling HMA Surface	3695	Syd

PAVING QUANTITIES - THIS SHEET		
Item	Quantity	Unit
HMA, 5EML	305	Ton



Know what's below.  
Call before you dig.

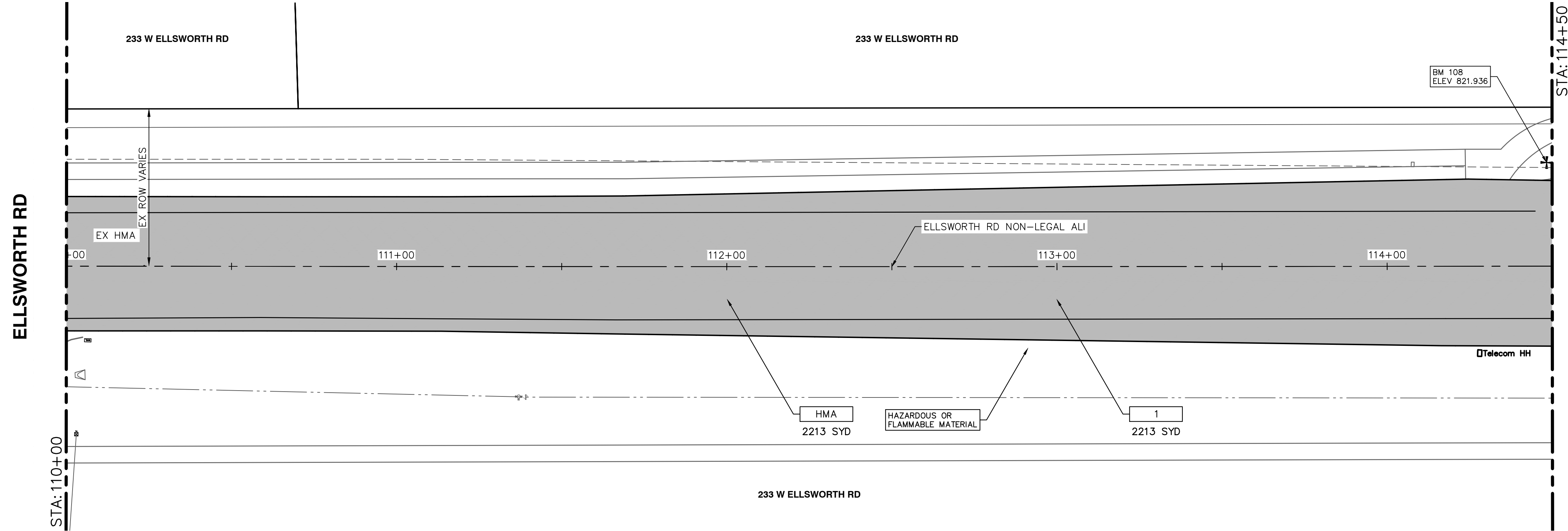
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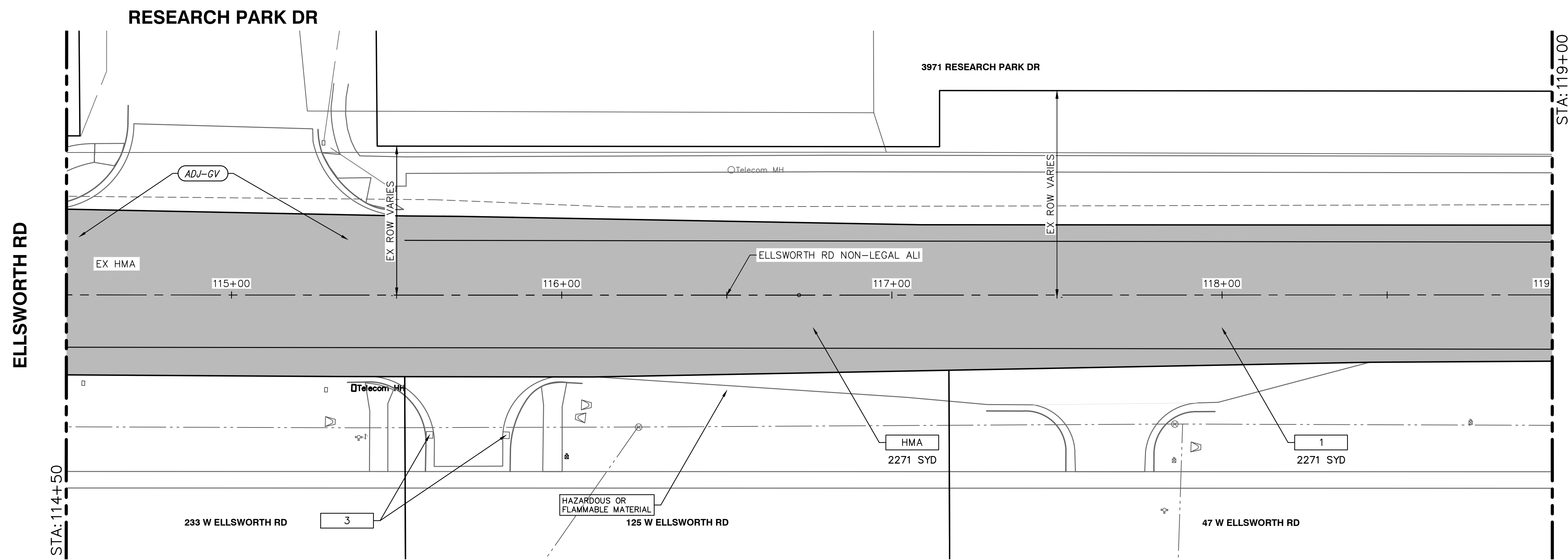
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
**ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT**  
 REMOVAL & PAVING PLAN - STA 102+00 (POB) TO STA 110+00

SCALE: 1" = 20' DRAWING No. 2022010-07	SHEET No. <b>07 OF 32</b>
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**REMOVAL & PAVING PLAN - STA 110+00 TO STA 114+50**



**REMOVAL & PAVING PLAN - STA 114+50 TO STA 119+00**

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
108	821.936	TOP OF SOUTHEAST BOLT ON LIGHT POLE BASE LOCATED ON THE NORTHWEST CORNER OF WEST ELLSWORTH ROAD AND RESEARCH PARK DRIVE. N = 266546, E = 13295218.

SESC & REMOVAL QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Erosion Control, Inlet Filter	2	Ea
Cold Milling HMA Surface	4485	Syd

PAVING QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Gate Box, Adj, Case 1, Modified	2	Ea
HMA, 5EML	370	Ton

**811**  
Know what's below.  
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NO	REV	DESCRIPTION	DATE	BY	CHECKED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT**  
 REMOVAL & PAVING PLAN - STA 110+00 TO STA 119+00

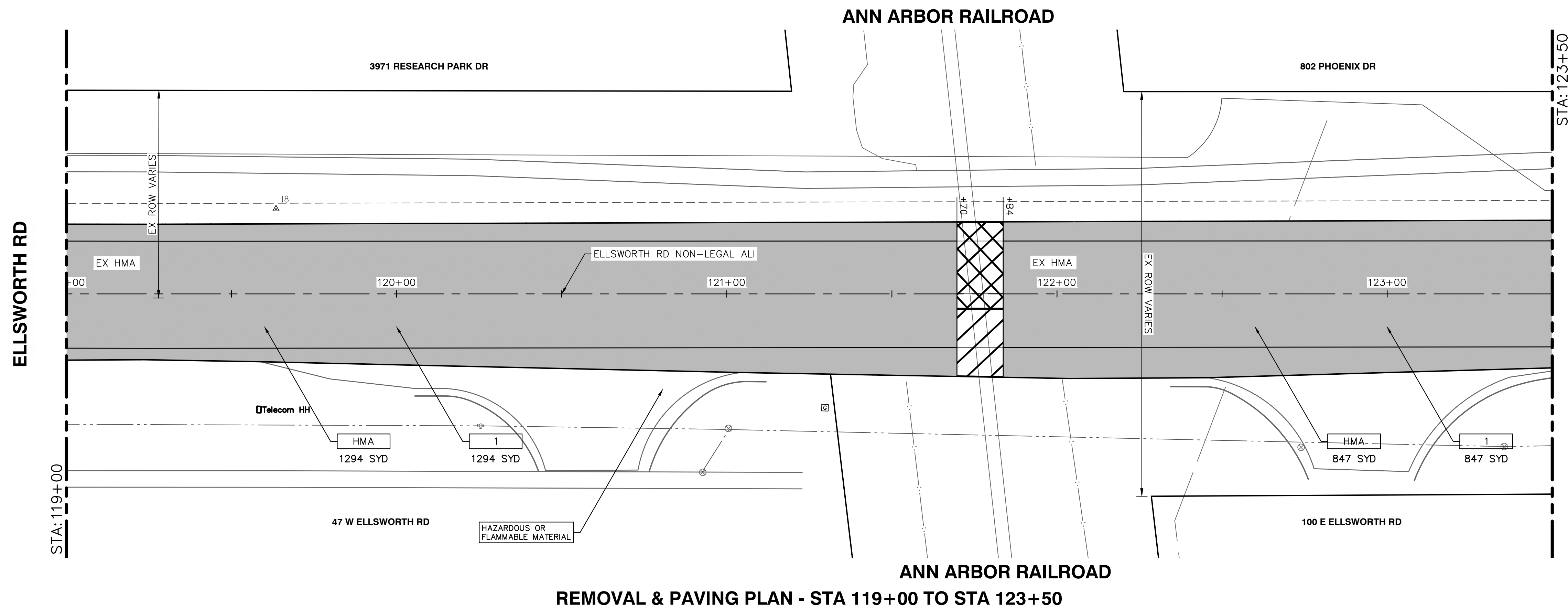
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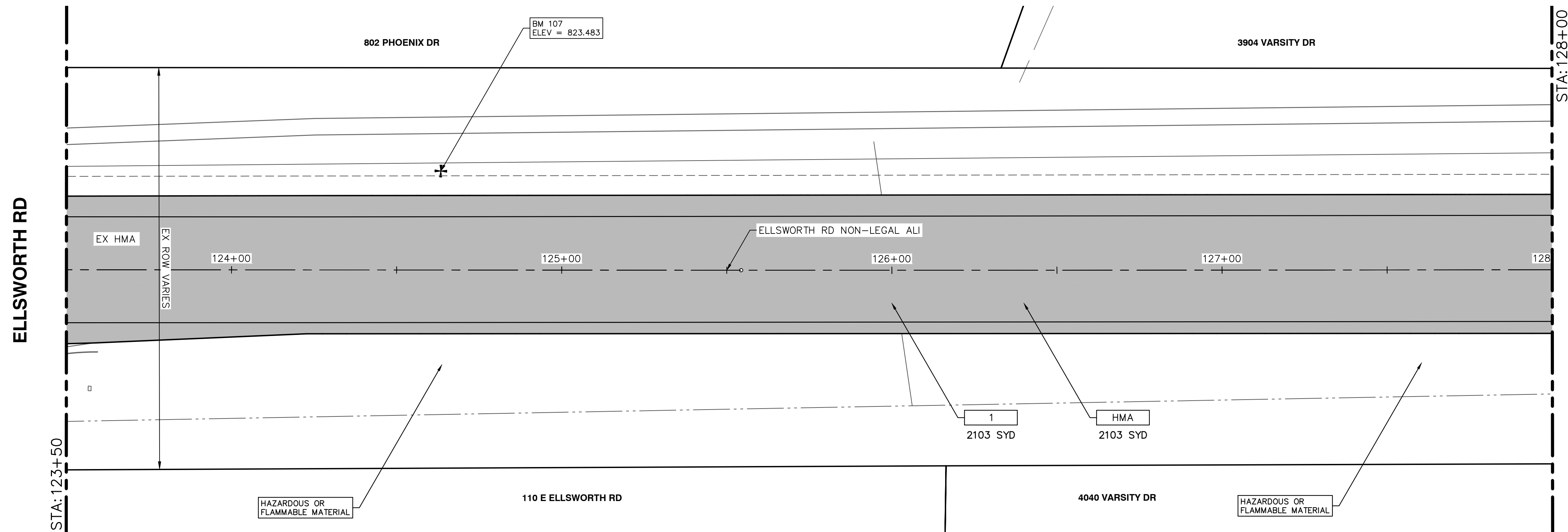
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REMOVAL & PAVING PLAN - STA 119+00 TO STA 123+50



REMOVAL & PAVING PLAN - STA 123+50 TO STA 128+00

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
107	823.483	SET BENCH TIE IN SOUTH FACE OF UTILITY POLE. LOCATED ON THE NORTH SIDE OF EAST ELLSWORTH ROAD, +/- 290' EAST OF RAILROAD TRACKS, +/- 10' SOUTH OF THE BACK OF WALK. N = 266578, E = 13296233.

SESC & REMOVAL QUANTITIES - THIS SHEET		
Item	Quantity	Unit
Cold Milling HMA Surface	4224	Syd

PAVING QUANTITIES - THIS SHEET		
Item	Quantity	Unit
HMA, 5EML	349	Ton

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

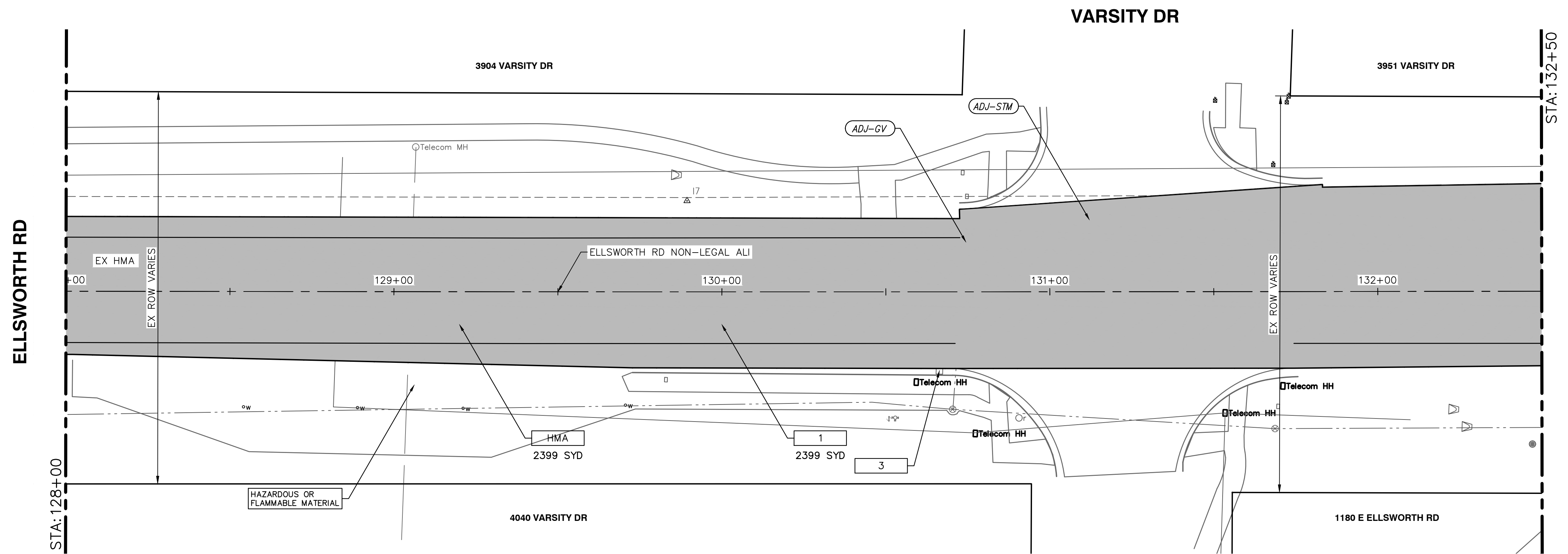
City of Ann Arbor - Public Services - Engineering  
 Ellsworth Rd Resurfacing  
 Improvements Project  
 Removal & Paving Plan - STA 119+00 to STA 128+00

REV	DESCRIPTION	DATE	BY	CHECKED
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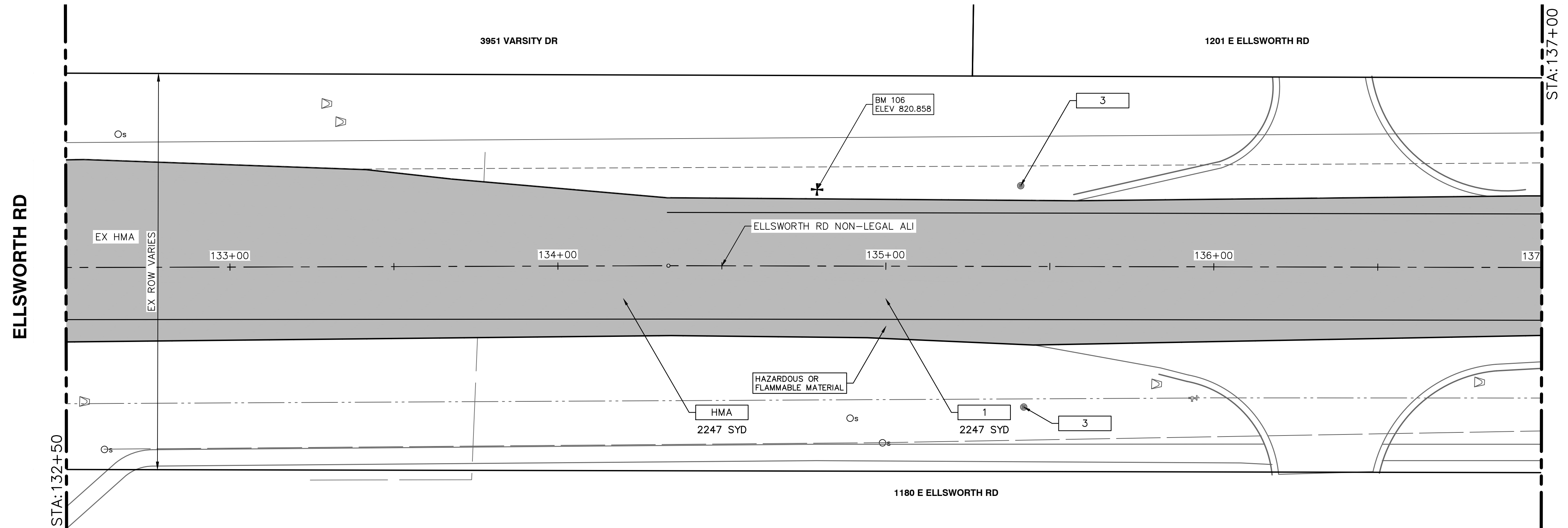
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 301 EAST HURON STREET  
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SCALE: 1" = 20'  
 DRAWING No. 2022010-09  
 SHEET No. 09 OF 32

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REMOVAL & PAVING PLAN - STA 128+00 TO STA 132+50



REMOVAL & PAVING PLAN - STA 132+50 TO STA 137+00

REMOVAL KEY

KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY

[Hatched Pattern]	PROPOSED HMA
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WORK ZONE STAGING KEY

[Diagonal Hatch]	WORK ZONE - STAGE 1
[Cross Hatch]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS

BM#	ELEV	DESCRIPTION
106	820.858	SET MAG NAIL IN THE TOP OF GUARDRAIL POST. LOCATED AT THE EAST END OF GUARDRAIL ON THE NORTH SIDE OF EAST ELLSWORTH RD. N = 266808, E = 13297248.

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Erosion Control, Inlet Filter	3	Ea
_Dr Structure, Temp Lowering, Modified	1	Ea

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	1	Ea
_Gate Box, Adj, Case 1, Modified	1	Ea
HMA, 5EML	384	Ton



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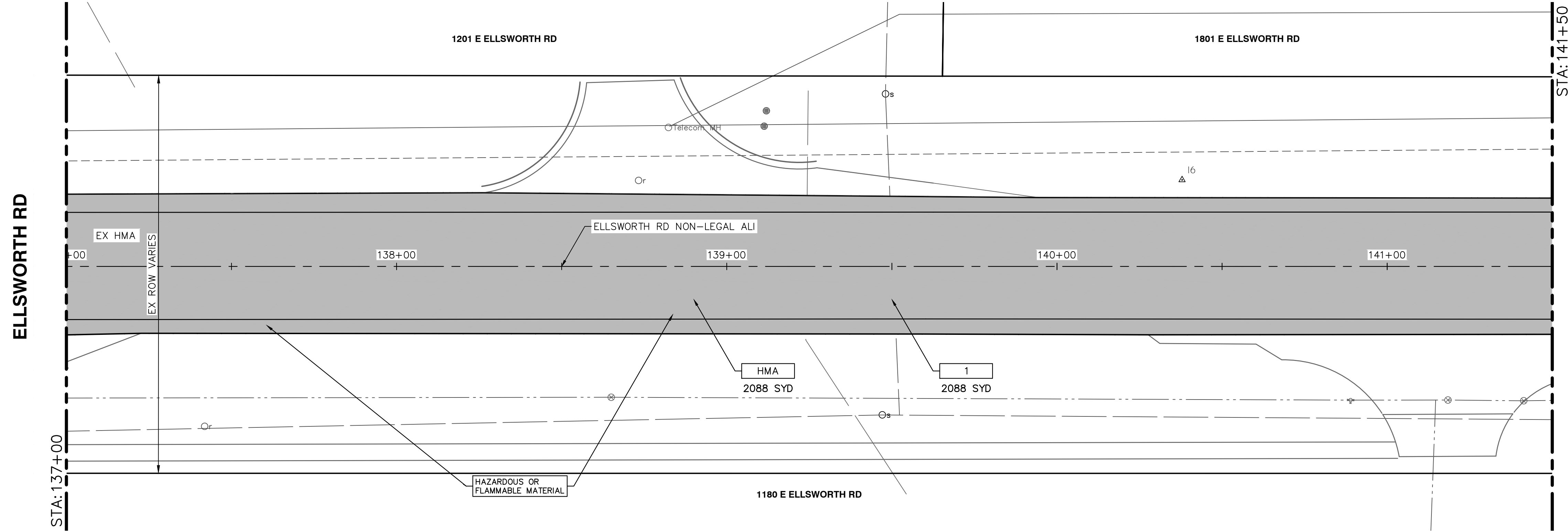
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 128+00 TO STA 137+00

DRAWING No. 2022010-10

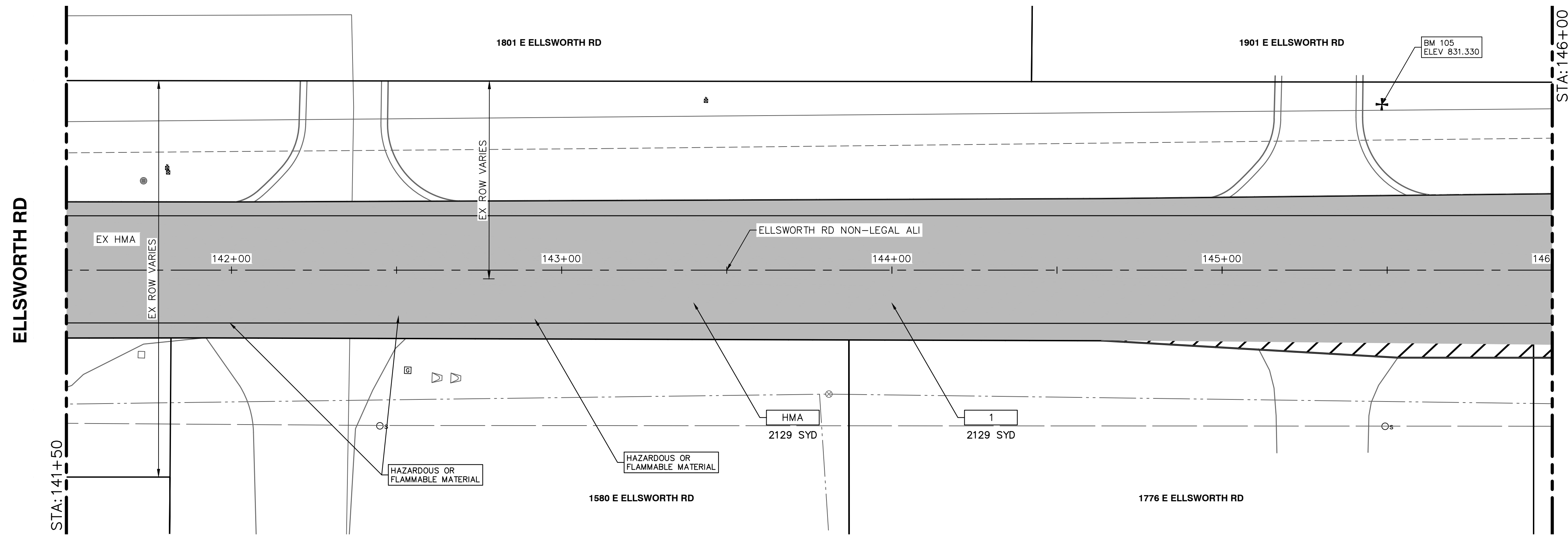
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REMOVAL & PAVING PLAN - STA 137+00 TO STA 141+50



REMOVAL & PAVING PLAN - STA 141+50 TO STA 146+00

REMOVAL KEY

KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY

	PROPOSED HMA
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WORK ZONE STAGING KEY

	WORK ZONE - STAGE 1
	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS

BM#	ELEV	DESCRIPTION
105	831.330	SET BENCH TIE IN THE SOUTH FACE OF UTILITY POLE. LOCATED ON THE NORTH SIDE OF ELLSWORTH ROAD, +/- 6' EAST OF ENTRANCE TO #1901. N = 266671, E = 13298316.

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
Cold Milling HMA Surface	4218	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
HMA, 5EML	348	Ton



NO	REV	DESCRIPTION	DATE	BY	CHECKED

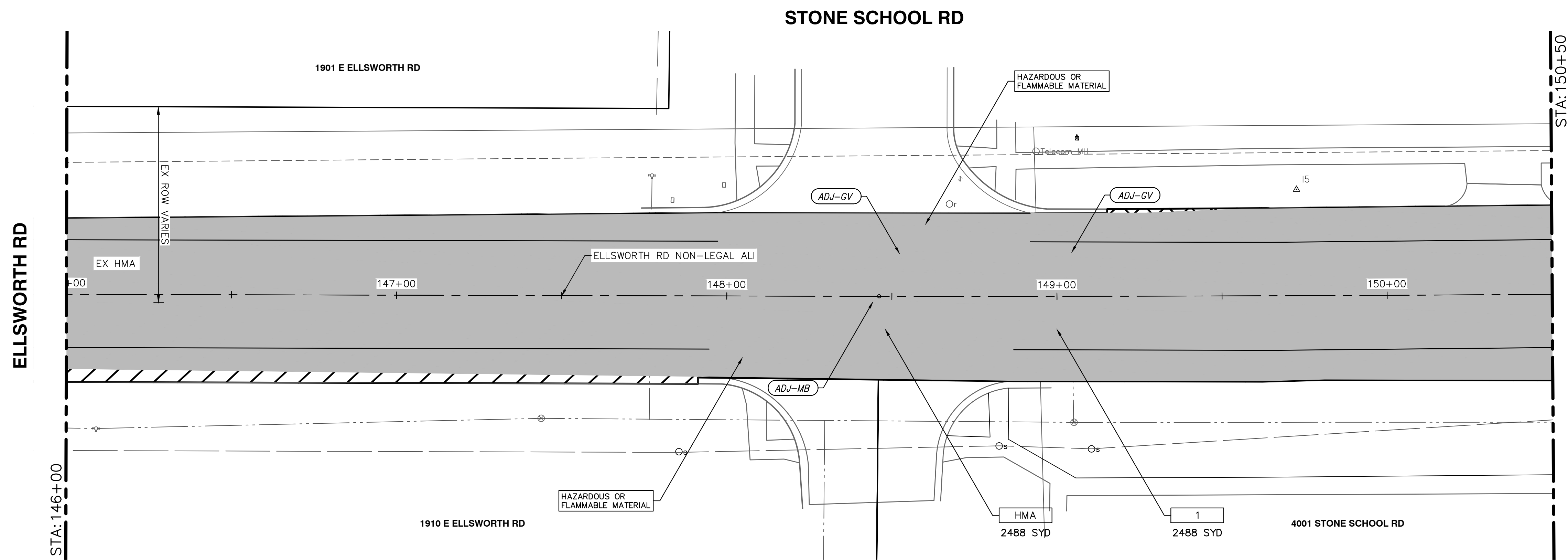
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-1667  
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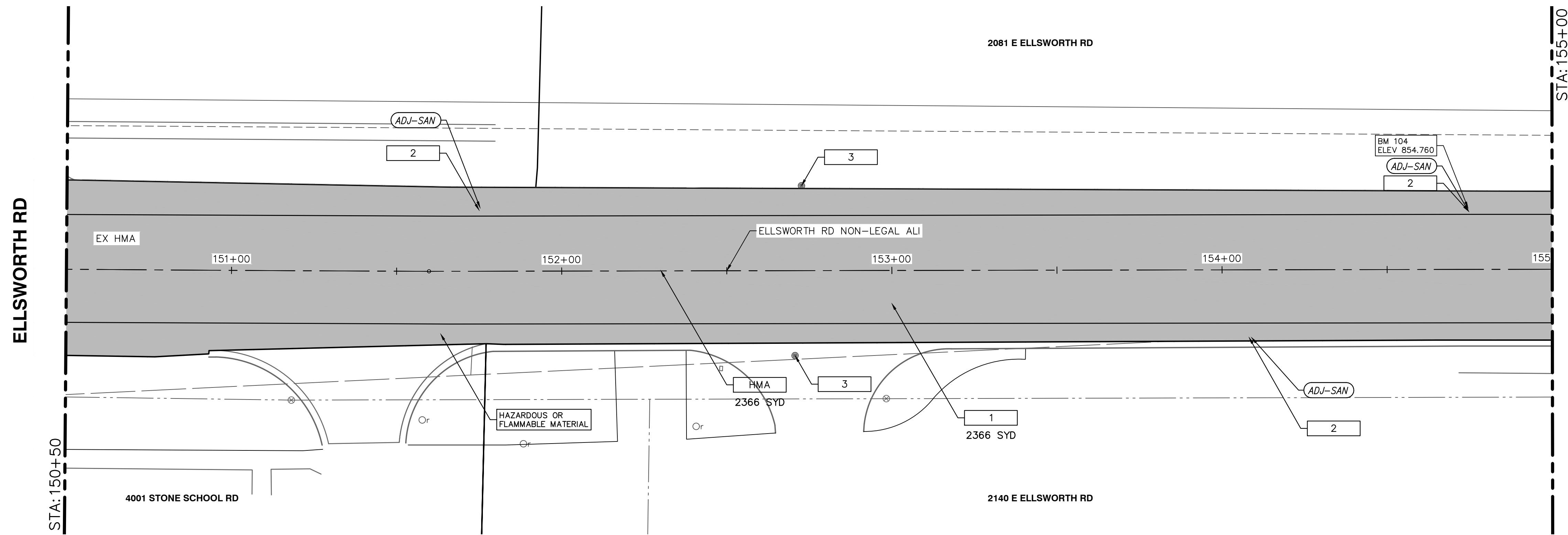
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 137+00 TO STA 146+00

SCALE: 1" = 20'  
DRAWING No. 2022010-11

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STONE SCHOOL RD  
REMOVAL & PAVING PLAN - STA 146+00 TO STA 150+00



REMOVAL & PAVING PLAN - STA 150+00 TO STA 155+00

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Erosion Control, Inlet Filter	2	Ea
_Dr Structure, Temp Lowering, Modified	3	Ea
Cold Milling HMA Surface	4855	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	3	Ea
_Gate Box, Adj, Case 1, Modified	2	Ea
HMA, 5EML	401	Ton
Monument Box Adj	1	Ea
Protect Corners	1	Ea

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
104	854.760	SET CHISELED X ON THE NORTH RIM OF SANITARY MANHOLE. LOCATED ON THE NORTH SIDE OF ELLSWORTH ROAD ACROSS FROM WASHTENAW COUNTY COMMUNITY MENTAL HEALTH BUILDING, +/- 605' EAST OF STONE SCHOOL ROAD +/- 20' SOUTH OF UTILITY POLE. N = 266679, E = 13299242.



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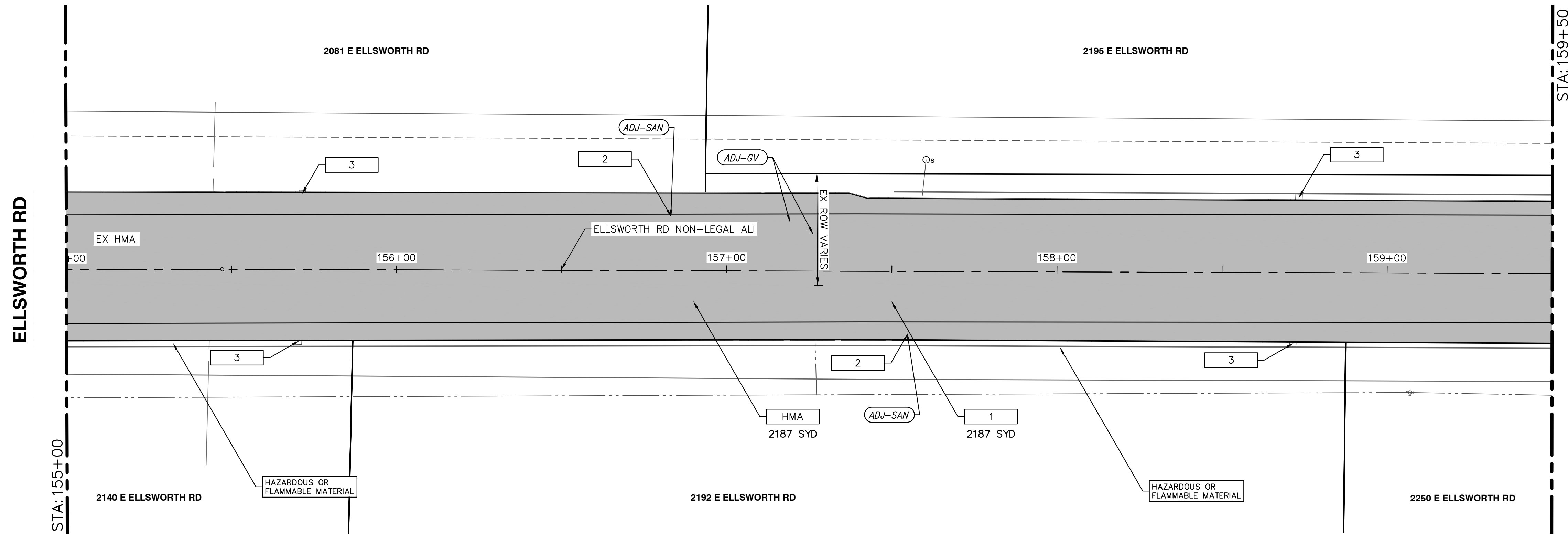


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 146+00 TO STA 155+00

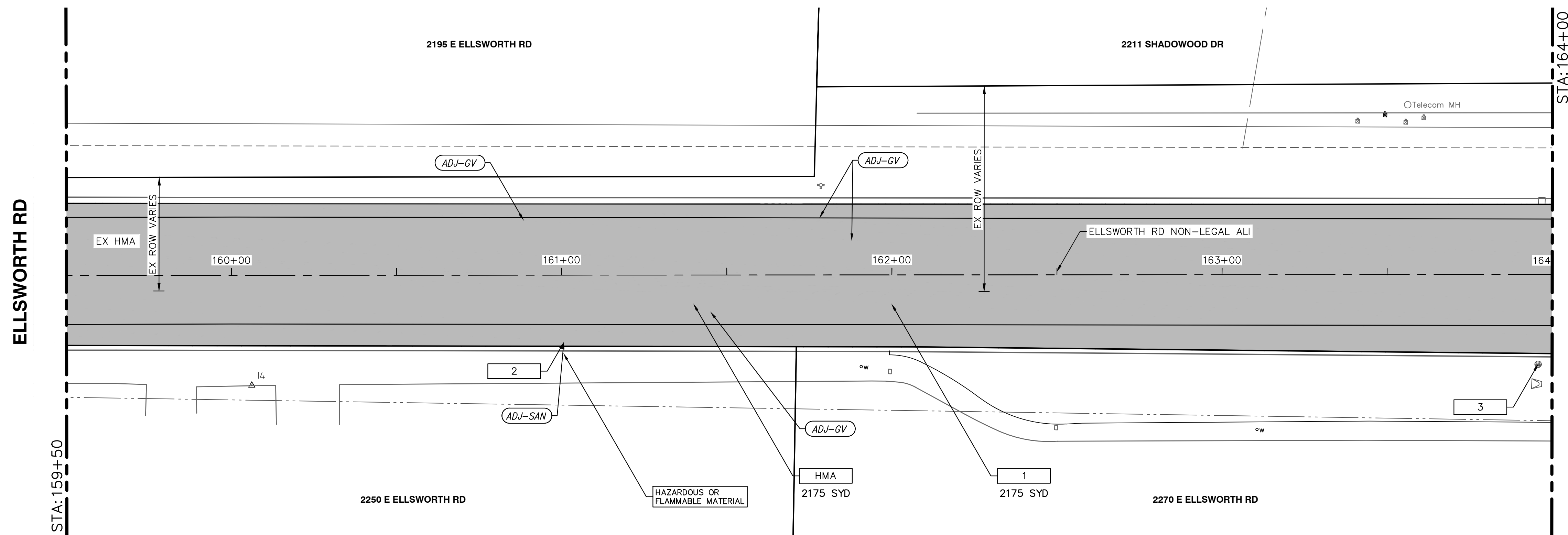
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DRAWING No. 2022010-12  
SHEET No.



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REMOVAL & PAVING PLAN - STA 155+00 TO STA 159+50



REMOVAL & PAVING PLAN - STA 159+50 TO STA 164+00

REMOVAL KEY

KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY

	PROPOSED HMA
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WORK ZONE STAGING KEY

	WORK ZONE - STAGE 1
	WORK ZONE - STAGE 2

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Erosion Control, Inlet Filter	5	Ea
_Dr Structure, Temp Lowering, Modified	3	Ea
Cold Milling HMA Surface	4363	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	3	Ea
_Gate Box, Adj, Case 1, Modified	6	Ea
HMA, 5EML	360	Ton



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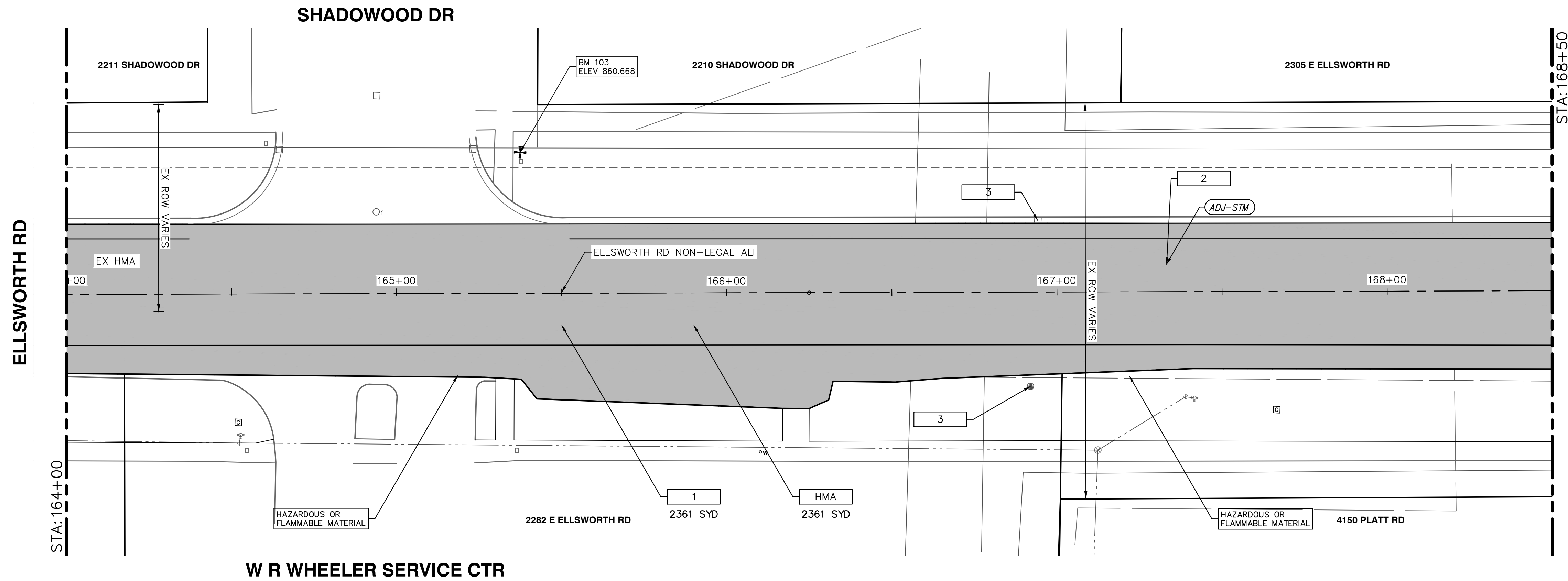


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 155+00 TO STA 164+00

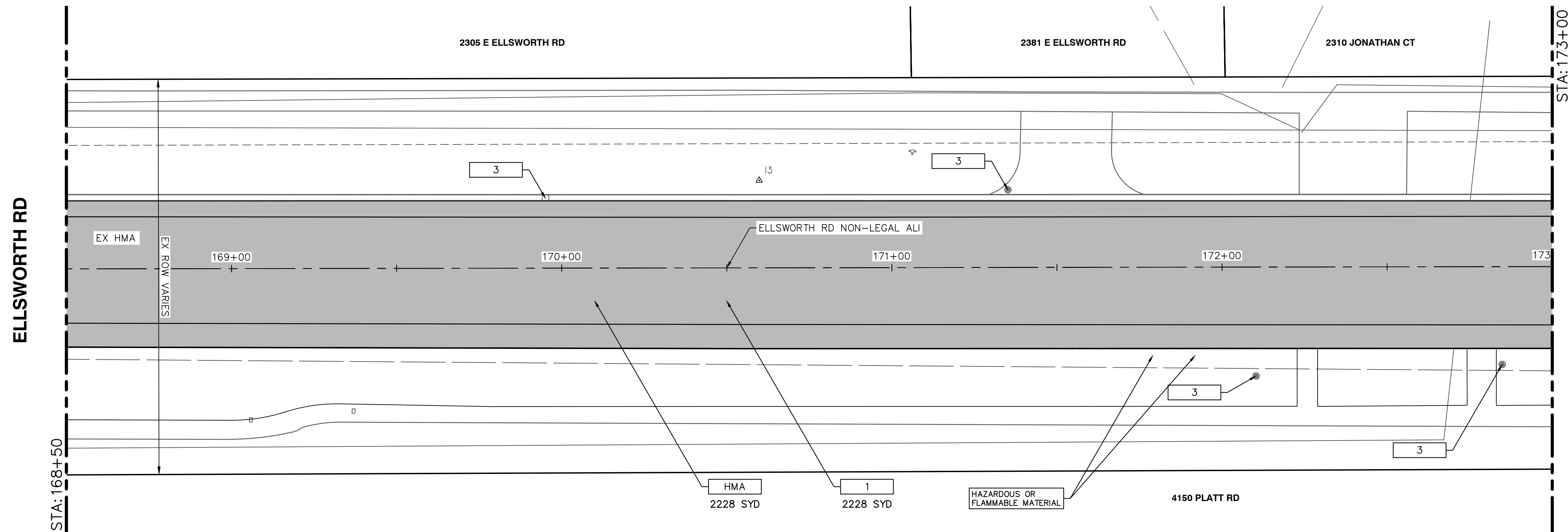
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SHEET No.

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REMOVAL & PAVING PLAN - STA 164+00 TO STA 168+50



REMOVAL & PAVING PLAN - STA 168+50 TO STA 173+00

REMOVAL KEY

KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY

[Hatched Box]	PROPOSED HMA
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WORK ZONE STAGING KEY

[Diagonal Hatch]	WORK ZONE - STAGE 1
[Cross Hatch]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS

BM#	ELEV	DESCRIPTION
103	860.668	TOP OF SOUTHWEST BOLT ON TRAFFIC LIGHT POLE BASE, LOCATED AT THE NORTHEAST CORNER OF ELLSWORTH ROAD AND SHADOWWOOD DRIVE. N = 266752, E = 13300303.

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Erosion Control, Inlet Filter	6	Ea
_Dr Structure, Temp Lowering, Modified	1	Ea
Cold Milling HMA Surface	4590	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	1	Ea
HMA, 5EML	379	Ton

**811**  
Know what's below.  
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NO	DATE	BY	CHECKED

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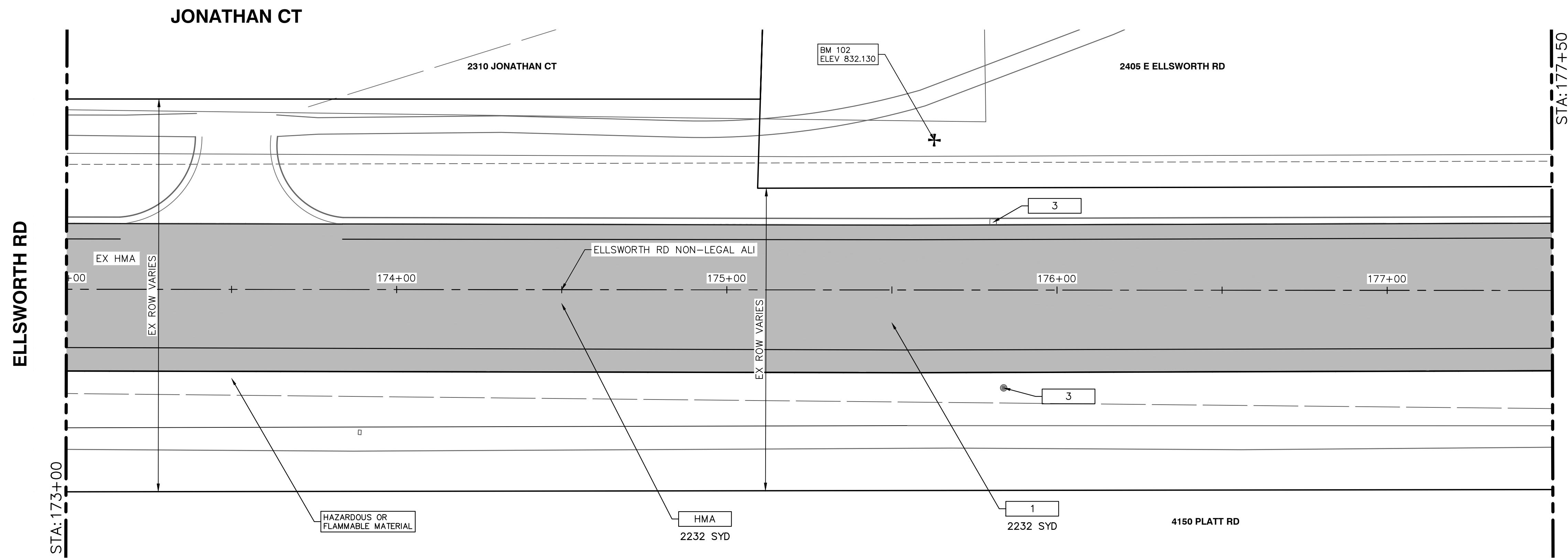
**CITY OF ANN ARBOR MICHIGAN**

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 164+00 TO STA 173+00

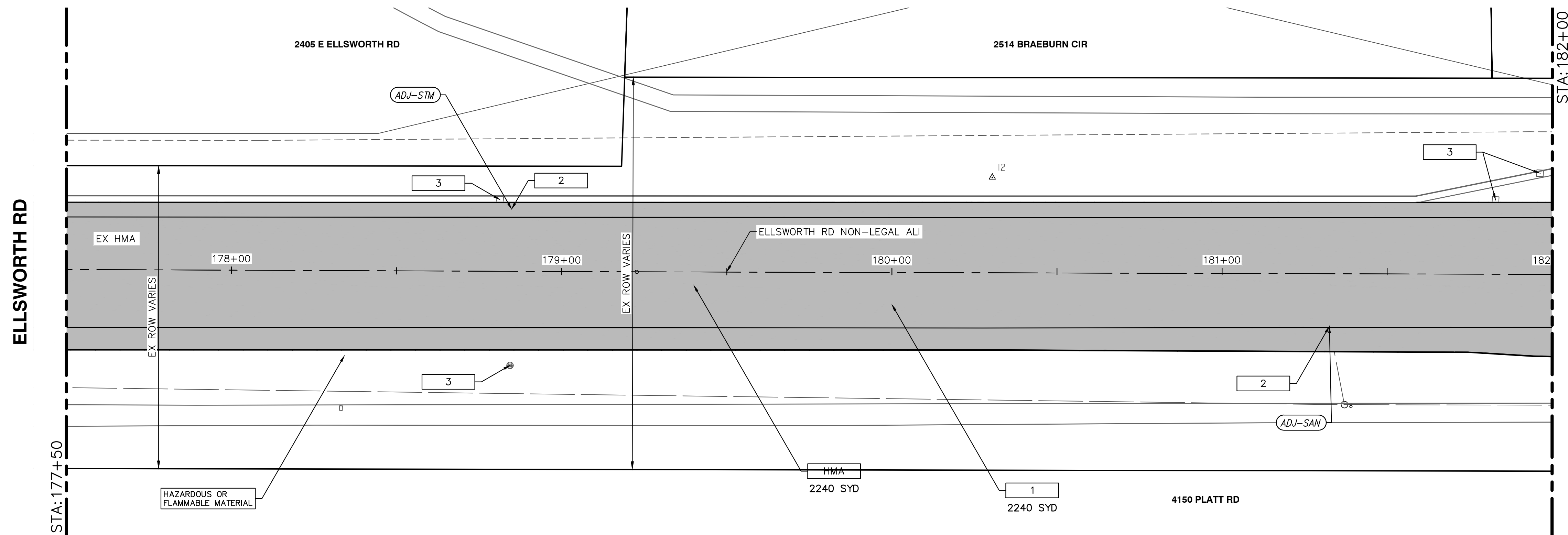
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DRAWING No. 2022010-14  
SHEET No. 14 OF 32



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REMOVAL & PAVING PLAN - STA 173+00 TO STA 177+50



REMOVAL & PAVING PLAN - STA 177+50 TO STA 182+00

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2


ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
102	832.130	SET BENCH TIE IN THE SOUTH FACE OF UTILITY POLE. LOCATED ON THE NORTH SIDE OF ELLSWORTH ROAD, +/- 200' EAST OF JONATHAN COURT. N = 266803, E = 13301327.

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Erosion Control, Inlet Filter	6	Ea
_Dr Structure, Temp Lowering, Modified	2	Ea
Cold Milling HMA Surface	4472	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	2	Ea
HMA, 5EML	369	Ton



Know what's below.  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
IMPROVEMENTS PROJECT  
ELLSWORTH RD RESURFACING  
REMOVAL & PAVING PLAN - STA 173+00 TO STA 182+00

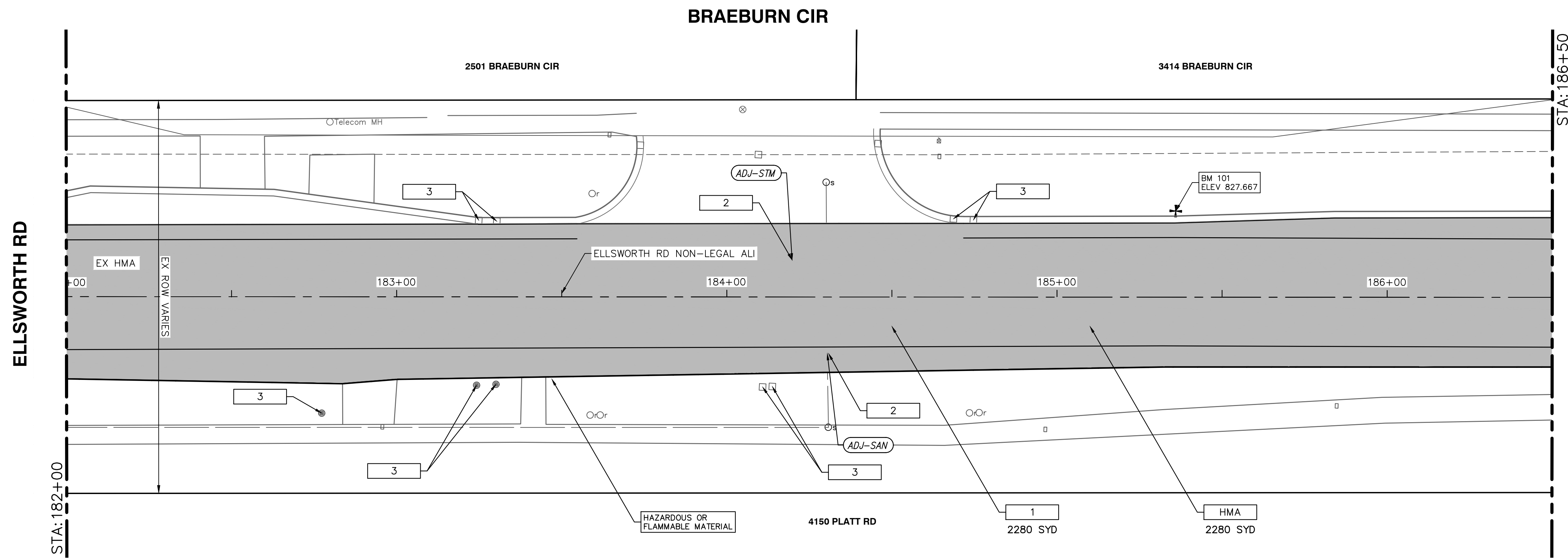
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DRAWING No. 2022010-15

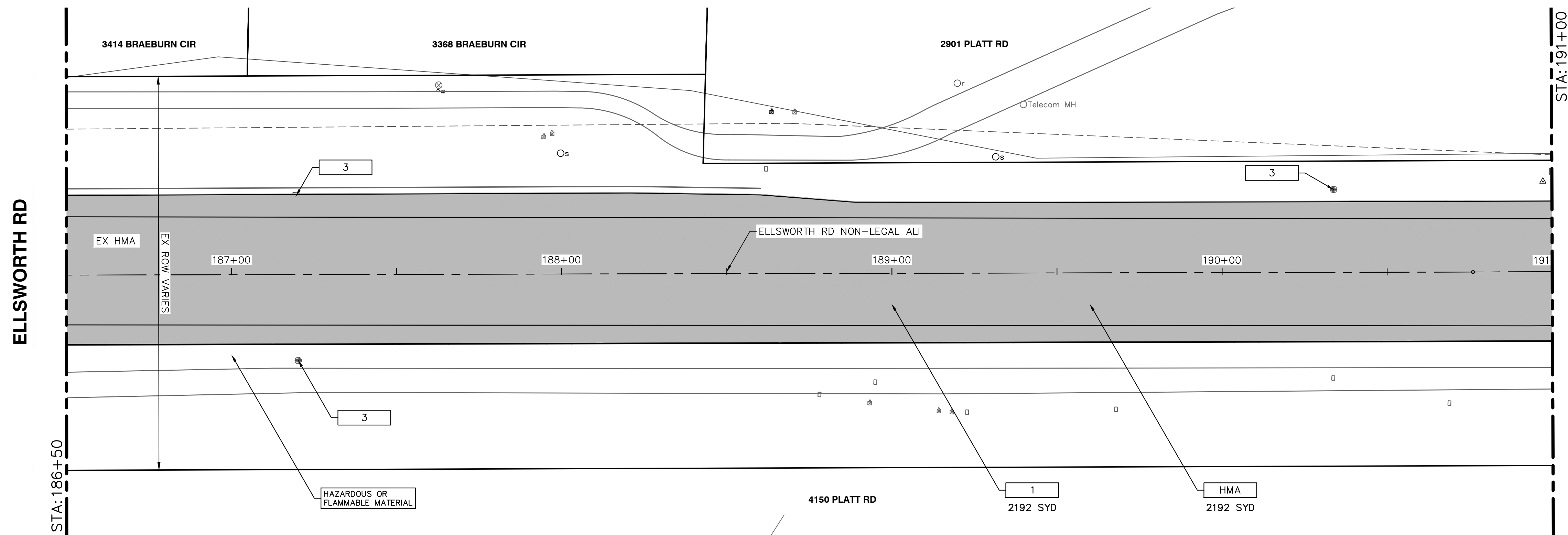
SHEET No. 15 OF 32

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REMOVAL & PAVING PLAN - STA 182+00 TO STA 186+50



REMOVAL & PAVING PLAN - STA 186+50 TO STA 191+00

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA


  

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
101	827.667	TOP OF SOUTHEAST BOLT IN LIGHT POLE BASE. LOCATED ON THE NORTH SIDE OF ELLSWORTH ROAD, +/- 90' EAST OF BRAEBURN CIRCLE. N = 266629, E = 13302300.

SESC & REMOVAL QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Erosion Control, Inlet Filter	12	Ea
_Dr Structure, Temp Lowering, Modified	2	Ea
Cold Milling HMA Surface	4472	Syd

PAVING QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Dr Structure Cover, Adj, Case 1, Modified	2	Ea
HMA, 5EML	369	Ton



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REV	DATE	BY	CHECKED

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IMPROVEMENTS PROJECT  
ELLSWORTH RD RESURFACING  
REMOVAL & PAVING PLAN - STA 182+00 TO STA 191+00

SCALE: 1" = 20'

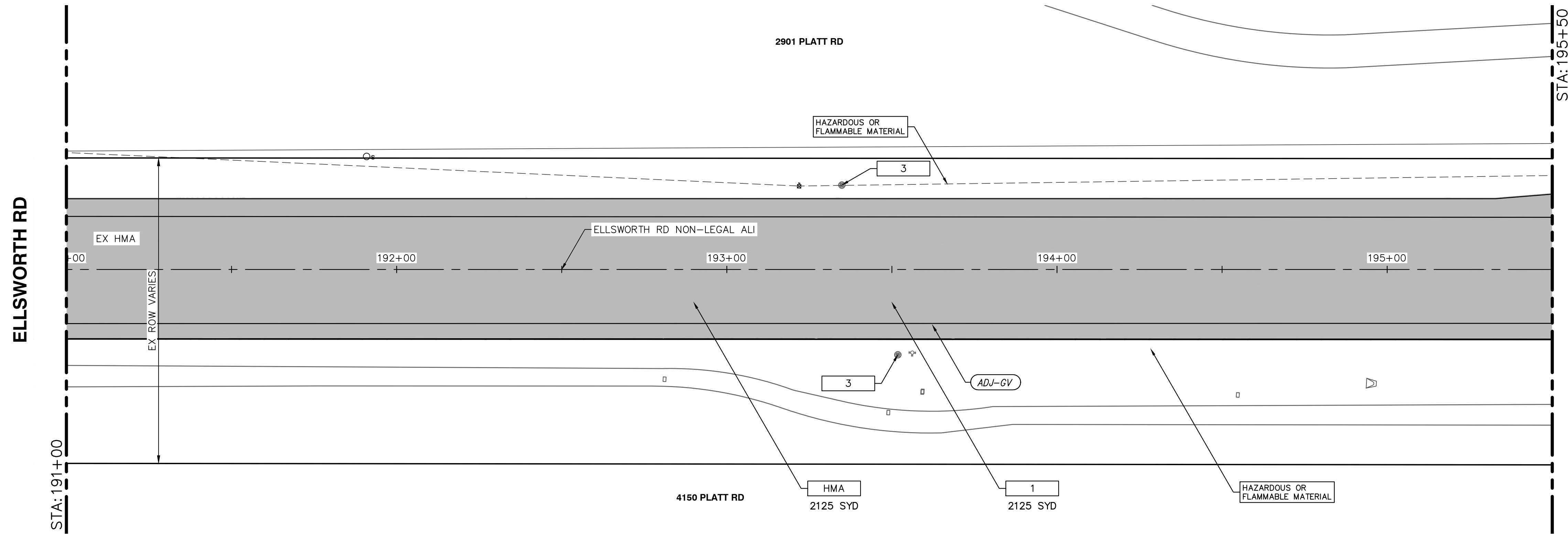
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SHEET No. 16 OF 32

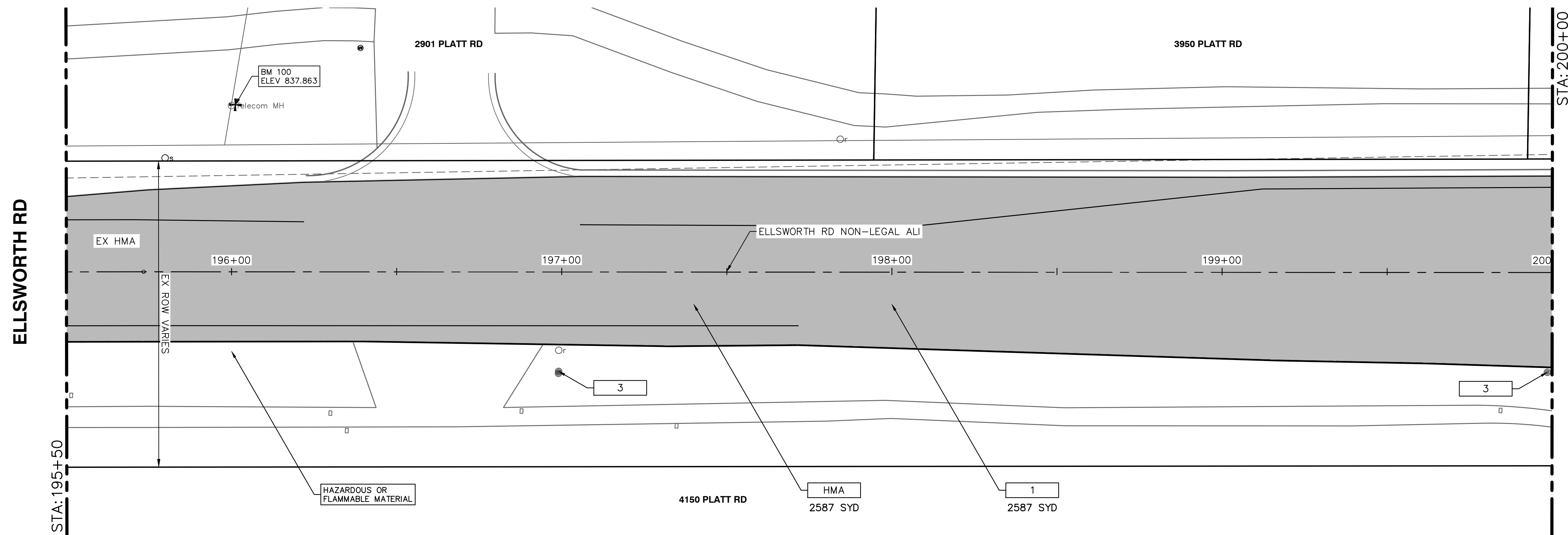
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REMOVAL & PAVING PLAN - STA 191+00 TO STA 195+00



REMOVAL & PAVING PLAN - STA 195+50 TO STA 200+00

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER

PAVING HATCHING KEY	
KEY	DESCRIPTION
[Hatched Box]	PROPOSED HMA


  

WORK ZONE STAGING KEY	
KEY	DESCRIPTION
[Diagonal Hatching]	WORK ZONE - STAGE 1
[Cross Hatching]	WORK ZONE - STAGE 2

ELLSWORTH RD BENCHMARKS		
BM#	ELEV	DESCRIPTION
100	837.863	SET CHISELED X ON THE EAST RIM OF TELEPHONE MANHOLE. LOCATED ON THE NORTH SIDE OF ELLSWORTH ROAD, +/- 50' WEST OF THE SOUTHEAST AREA PARK ENTRANCE DRIVEWAY, +/- 16' SOUTH OF THE FACE OF WALK. N = 266905, E = 13303362.


SESC & REMOVAL QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Erosion Control, Inlet Filter	4	Ea
Cold Milling HMA Surface	4713	Syd

PAVING QUANTITIES - THIS SHEET		
Item	Quantity	Unit
_Gate Box, Adj, Case 1, Modified	1	Ea
HMA, 5EML	389	Ton



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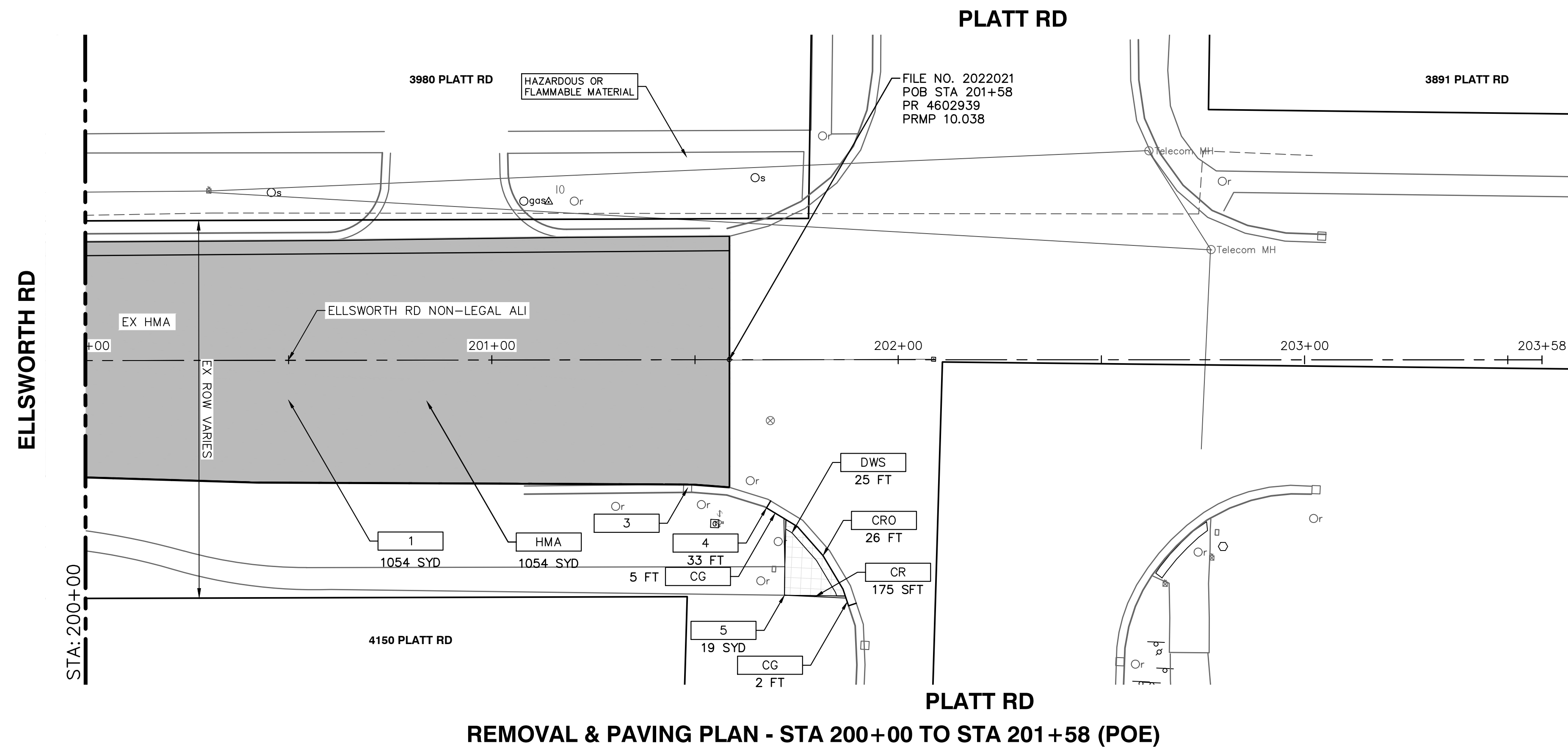
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 ELLSWORTH RD RESURFACING  
 IMPROVEMENTS PROJECT  
 REMOVAL & PAVING PLAN - STA 191+00 TO STA 200+00

SCALE: 1" = 20'

DRAWING No. 2022010-17

SHEET No. 17 OF 32

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REMOVAL & PAVING PLAN - STA 200+00 TO STA 201+58 (POE)

REMOVAL KEY	
KEY	DESCRIPTION
1	COLD MILLING HMA SURFACE
2	DR STRUCTURE, TEMP LOWERING, MODIFIED
3	EROSION CONTROL, INLET FILTER
4	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
5	SIDEWALK, SIDEWALK RAMP, AND DRIVEWAY APPROACH, ANY THICKNESS, REM

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
ABO	ADJUST BY OTHERS
ADJ-XXX	ADJUST GATE VALVE BOX, MONUMENT BOX, OR GAS BOX.
ADJ-SXX	ADJUST STRUCTURE COVER
CG	CURB AND GUTTER, CONC, BARRIER
CRO	CURB RAMP OPENING, CONC, MODIFIED
CR	CURB RAMP, CONC, 6 INCH, MODIFIED
DWS	DETECTABLE WARNING SURFACE, MODIFIED

PAVING HATCHING KEY	
	PROPOSED HMA

REMOVAL HATCHING KEY	
	SIDEWALK REMOVAL

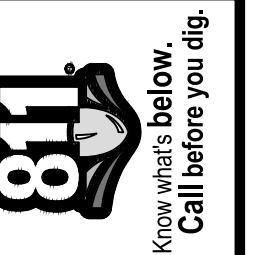
WORK ZONE STAGING KEY	
	WORK ZONE - STAGE 1
	WORK ZONE - STAGE 2

SESC & REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	33	Ft
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	19	Syd
_Erosion Control, Inlet Filter	1	Ea
Cold Milling HMA Surface	1054	Syd

PAVING QUANTITIES - THIS SHEET

Item	Quantity	Unit
HMA, 5EML	87	Ton
_Curb and Gutter, Conc, Barrier	7	Ft
_Curb Ramp Opening, Modified	26	Ft
_Detectable Warning Surface, Modified	25	Ft
_Curb Ramp, Conc, 6 inch, Modified	175	Sft



NO	DATE	BY	DESCRIPTION

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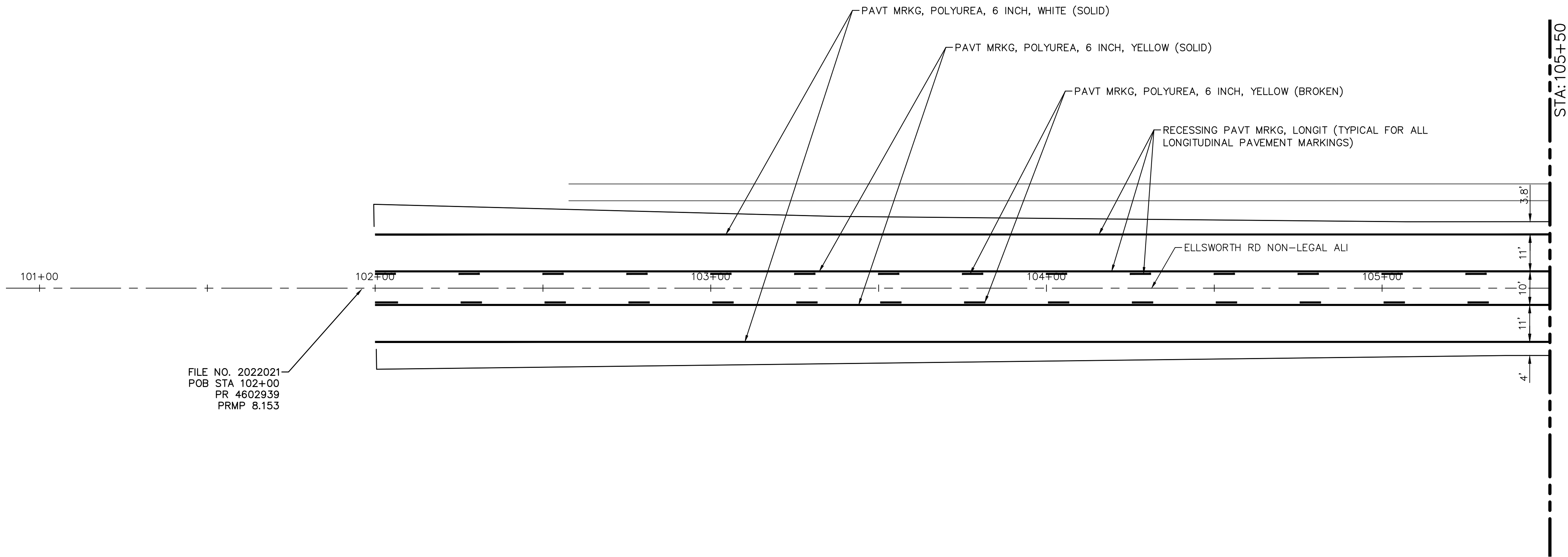


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ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
REMOVAL & PAVING PLAN - STA 200+00 TO STA 201+58 (POE)  
DRAWING No. 2022010-18  
SHEET No. 18 OF 32



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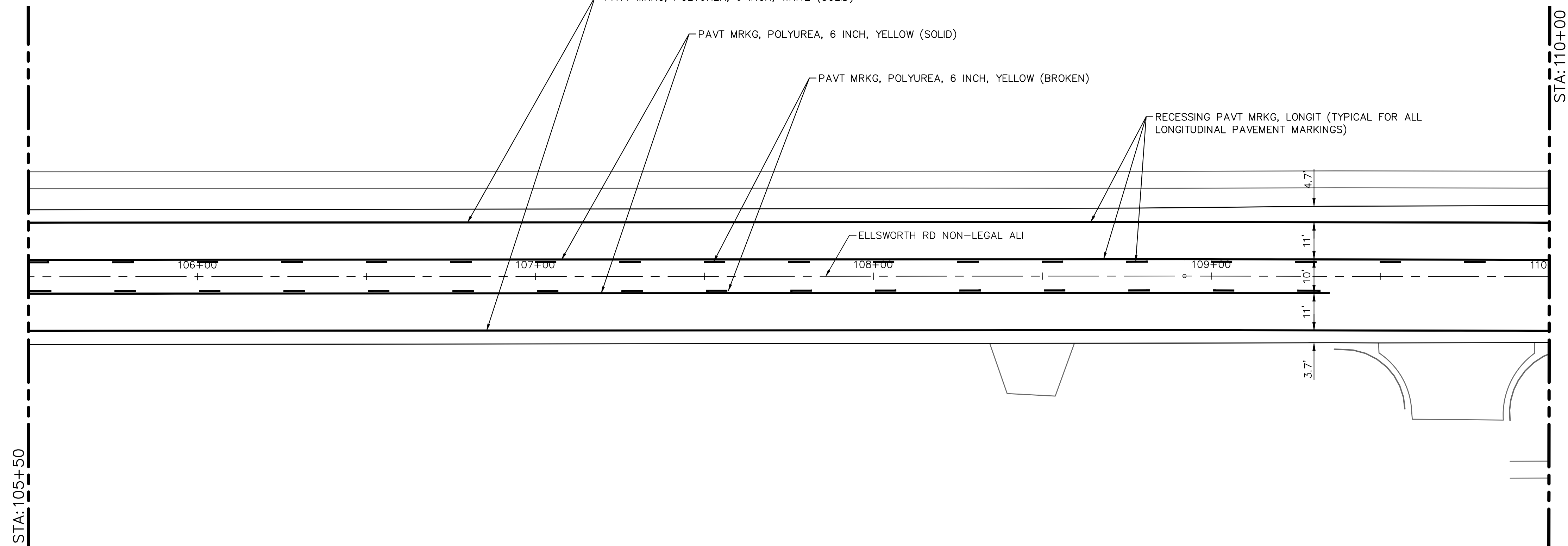
ELLSWORTH RD



FILE NO. 2022021  
POB STA 102+00  
PR 4602939  
PRMP 8.153

PAVEMENT MARKING PLAN - STA 102+00 (POB) TO STA 105+50

ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 105+50 TO STA 110+00

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2310	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1600	Ft
Recessing Pavt Mrkg, Longit	3910	Ft

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IMPROVEMENTS PROJECT

PAVEMENT STRIPING PLAN - STA 102+00 (POB) TO STA 110+00

SCALE: 1" = 20'

DRAWING No.  
2022010-19

SHEET No.

19 OF 32

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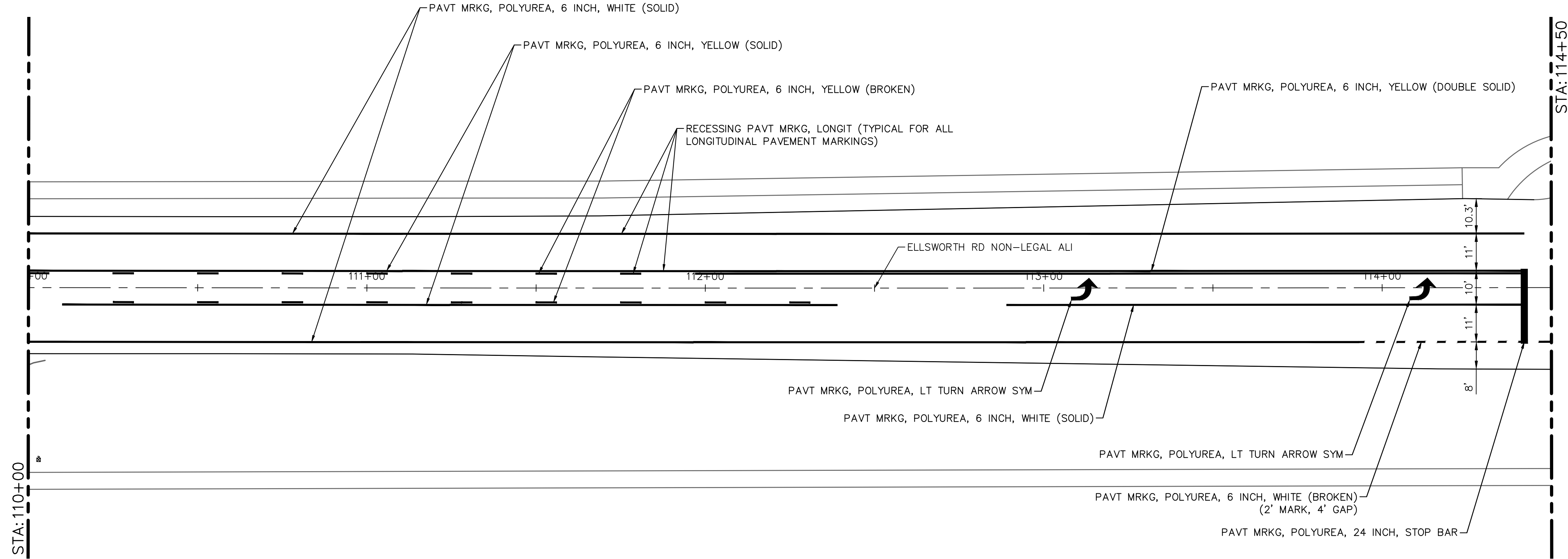


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REV.	DESCRIPTION	DATE	BY	CHECKED

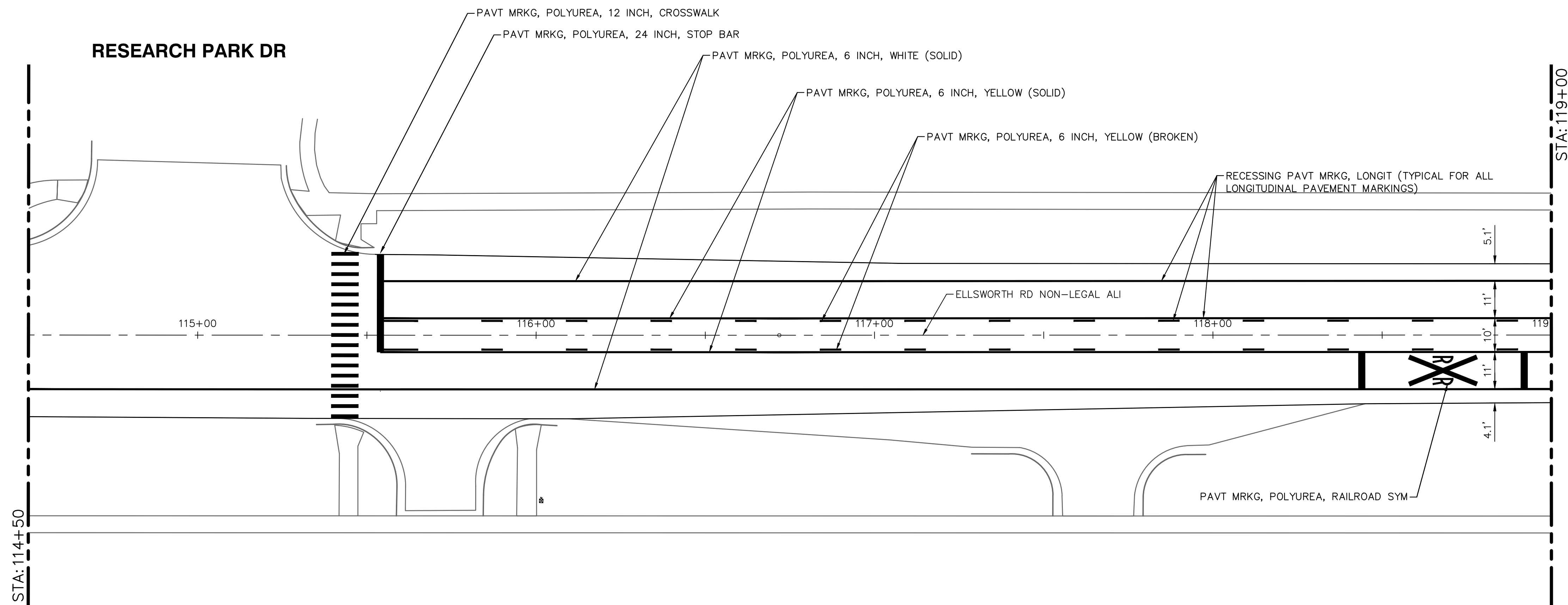
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ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 110+00 TO STA 114+50

ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 114+50 TO STA 119+00

ELLSWORTH RD

ELLSWORTH RD

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2171	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1807	Ft
Pavt Mrkg, Polyurea, 12 inch, Crosswalk	136	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	74	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	2	Ea
Pavt Mrkg, Polyurea, Railroad Sym	1	Ea
Recessing Pavt Mrkg, Longit	3978	Ft



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IMPROVEMENTS PROJECT  
PAVEMENT STRIPING PLAN - STA 110+00 TO STA 119+00

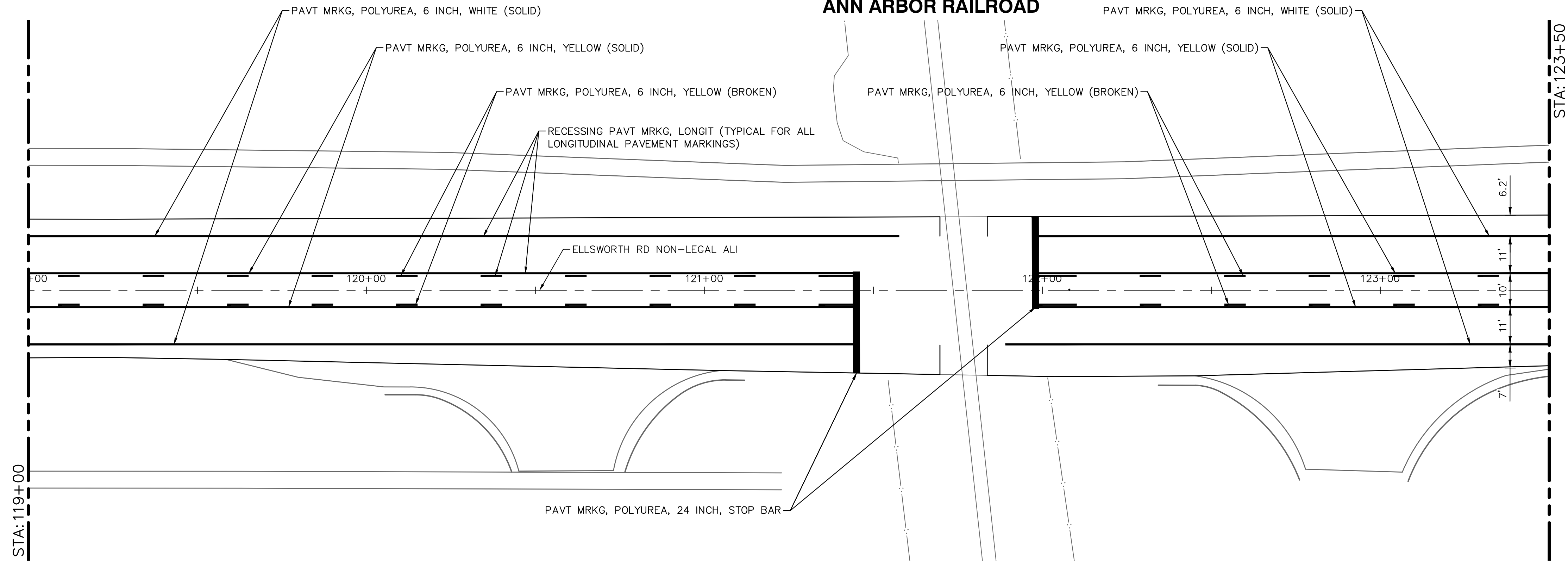
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SHEET No. 20 OF 32

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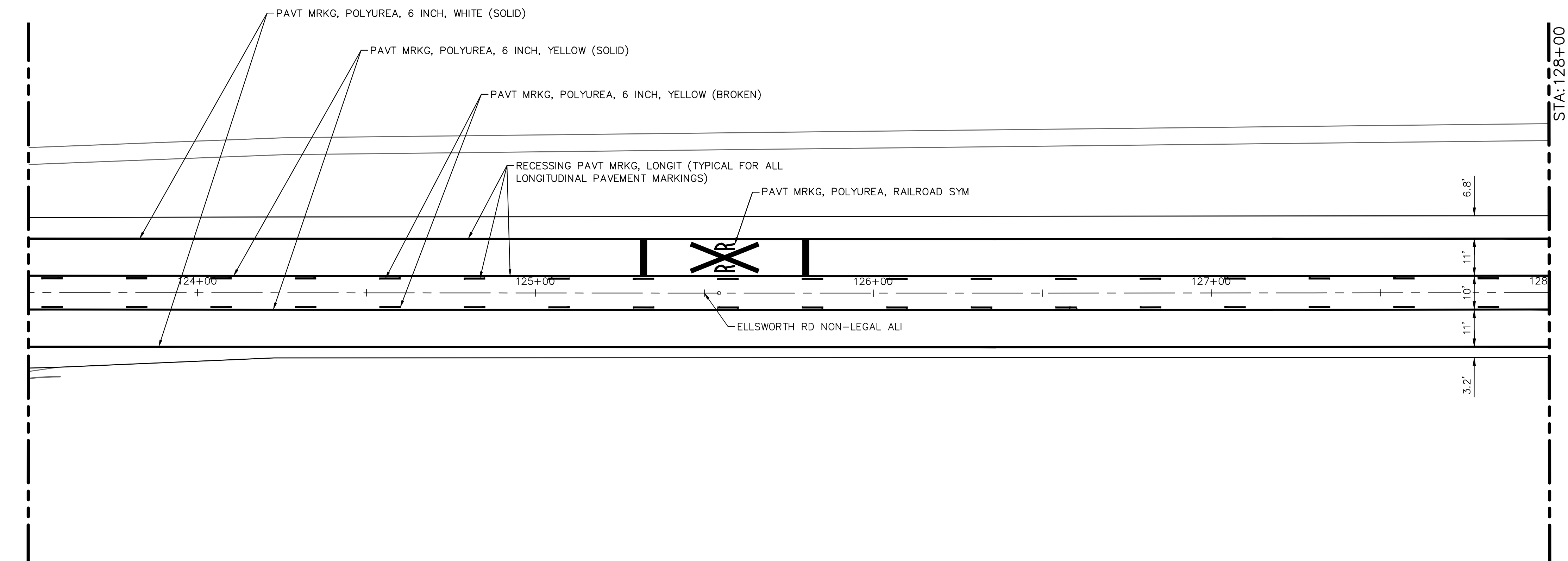
ELLSWORTH RD



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ANN ARBOR RAILROAD  
PAVEMENT MARKING PLAN - STA 119+00 TO STA 123+50

ELLSWORTH RD



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PAVEMENT MARKING PLAN - STA 123+50 TO STA 128+00

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2546	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1716	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	80	Ft
Pavt Mrkg, Polyurea, Railroad Sym	1	Ea
Recessing Pavt Mrkg, Longit	4262	Ft



REV.	DESCRIPTION	DATE	BY	CHECKED
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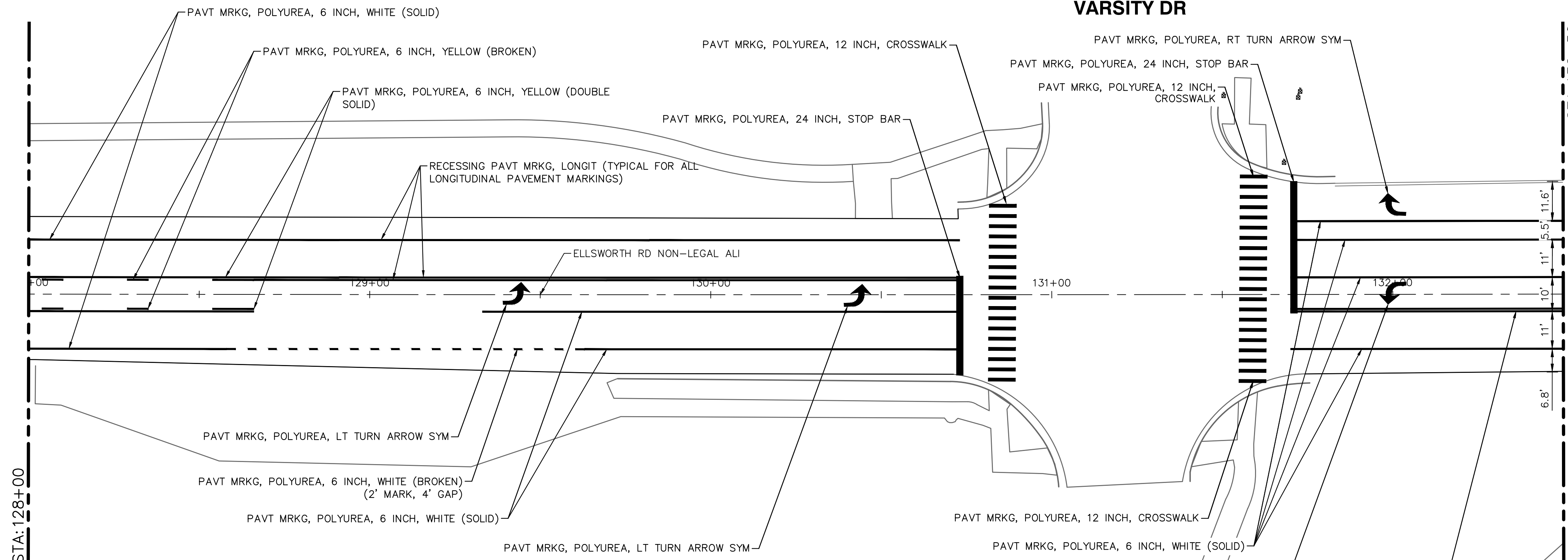
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IMPROVEMENTS PROJECT  
PAVEMENT STRIPING PLAN - STA 119+00 TO STA 128+00  
SCALE: 1" = 20'  
DRAWING No. 2022010-21

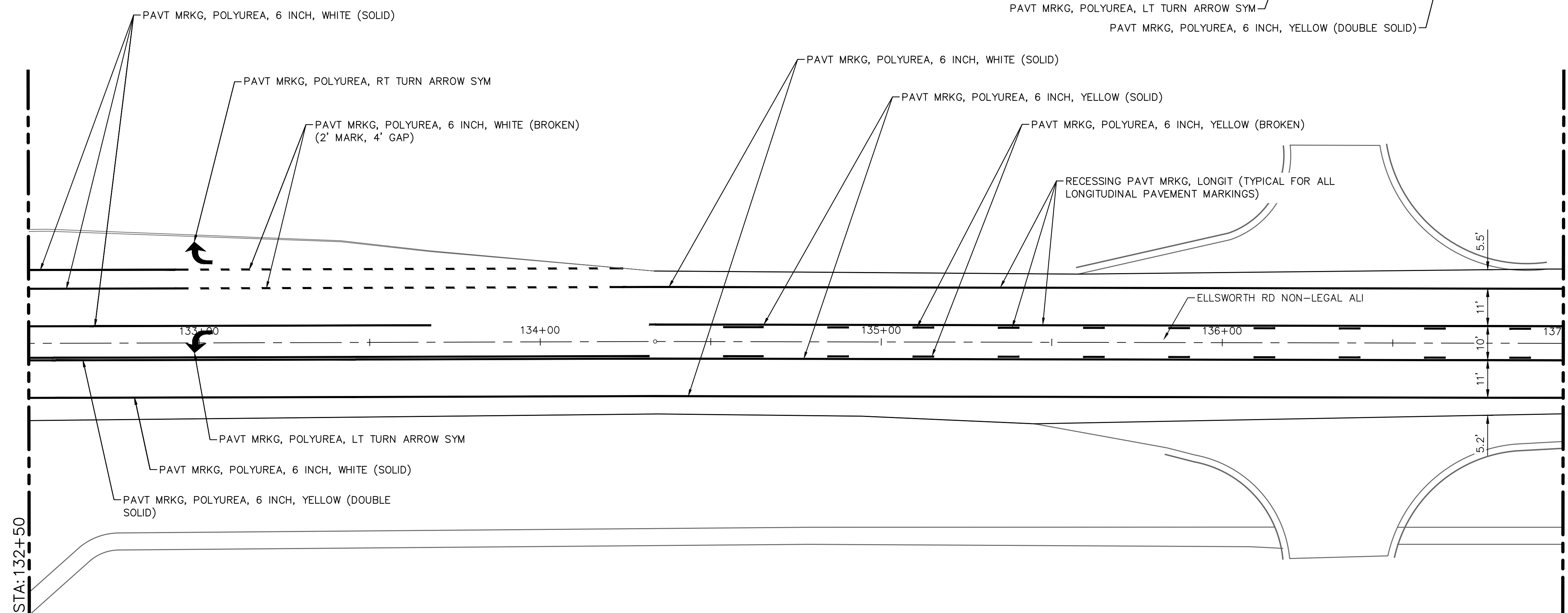
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PAVEMENT MARKING PLAN - STA 128+00 TO STA 132+50

ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 132+50 TO STA 137+00

ELLSWORTH RD

ELLSWORTH RD

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	1932	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1956	Ft
Pavt Mrkg, Polyurea, 12 inch, Crosswalk	312	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	69	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	4	Ea
Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	2	Ea
Recessing Pavt Mrkg, Longit	3888	Ft

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**ELLSWORTH RD RESURFACING IMPROVEMENTS PROJECT**

PAVEMENT STRIPING PLAN - STA 128+00 TO STA 137+00

SCALE: 1" = 20'

DRAWING No. 2022010-22

SHEET No. 22 OF 32



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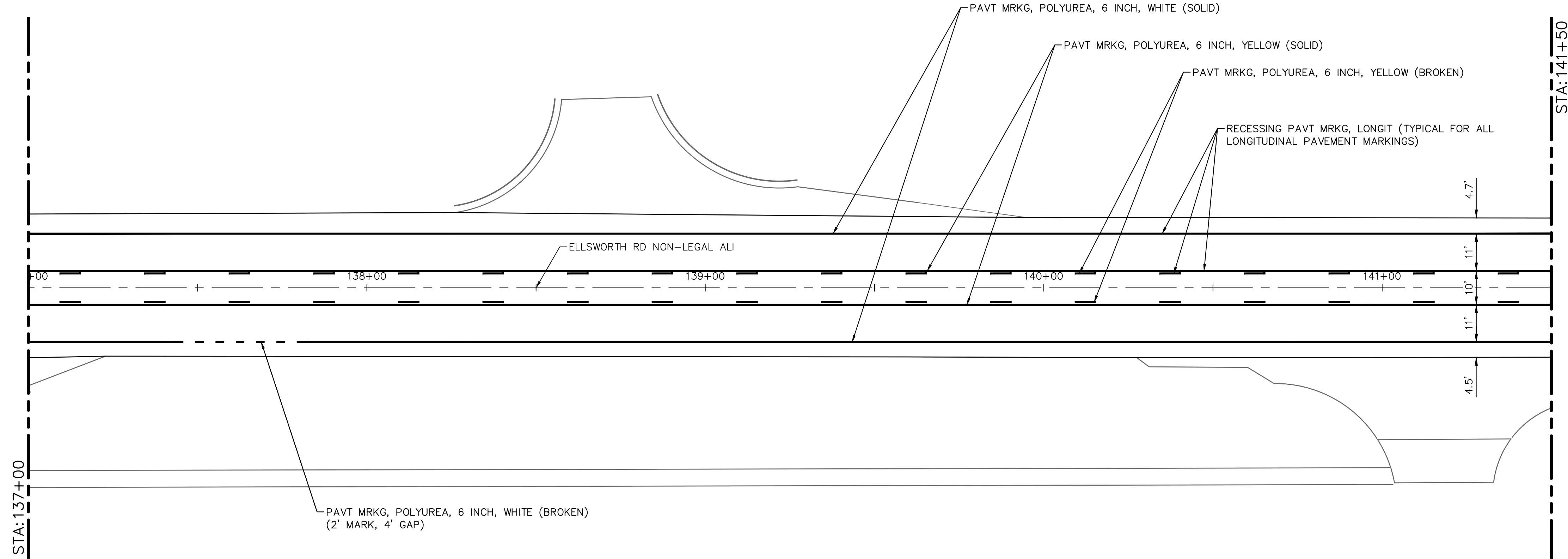
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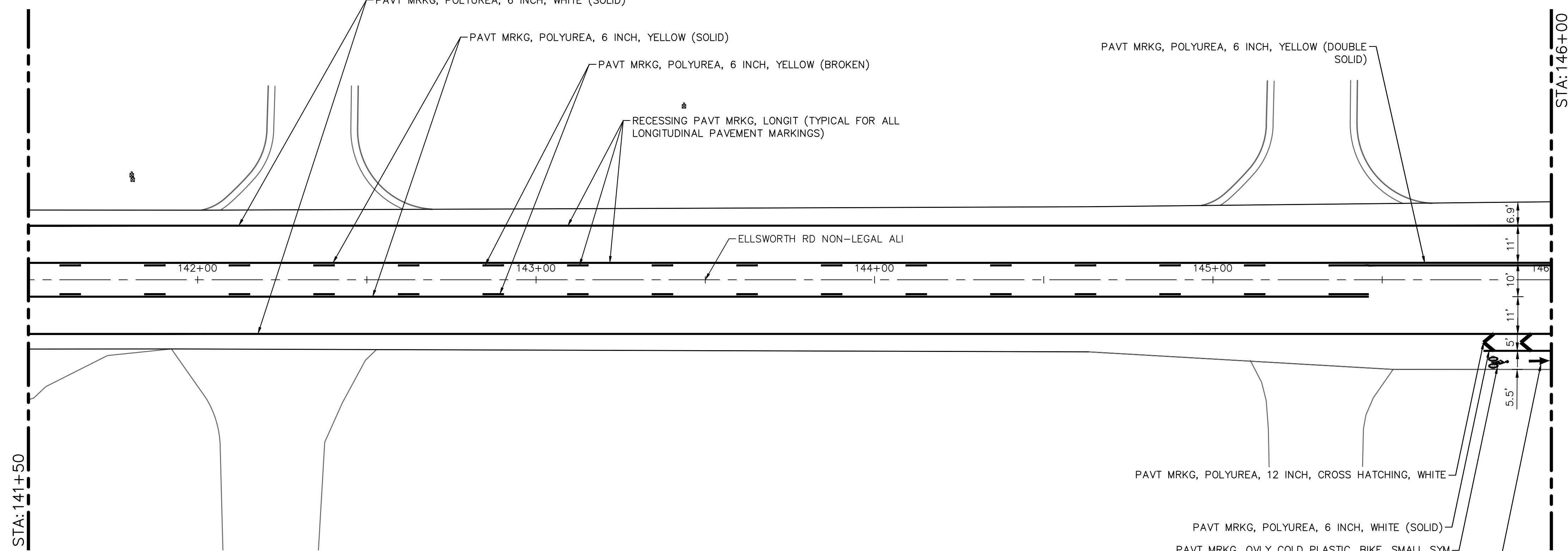
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PAVEMENT MARKING PLAN - STA 137+00 TO STA 141+50

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PAVEMENT MARKING PLAN - STA 141+50 TO STA 146+00

ELLSWORTH RD

ELLSWORTH RD

PAVEMENT MARKING QUANTITIES -- THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	1	Ea
Pavt Mrkg, Polyurea, 6 inch, Yellow	2650	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1793	Ft
Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, White	16	Ft
Recessing Pavt Mrkg, Longit	4443	Ft
Pavt Mrkg, Ovly Cold Plastic, Bike Thru Arrow Sym	1	Ea

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IMPROVEMENTS PROJECT

PAVEMENT STRIPING PLAN - STA 137+00 TO STA 146+00

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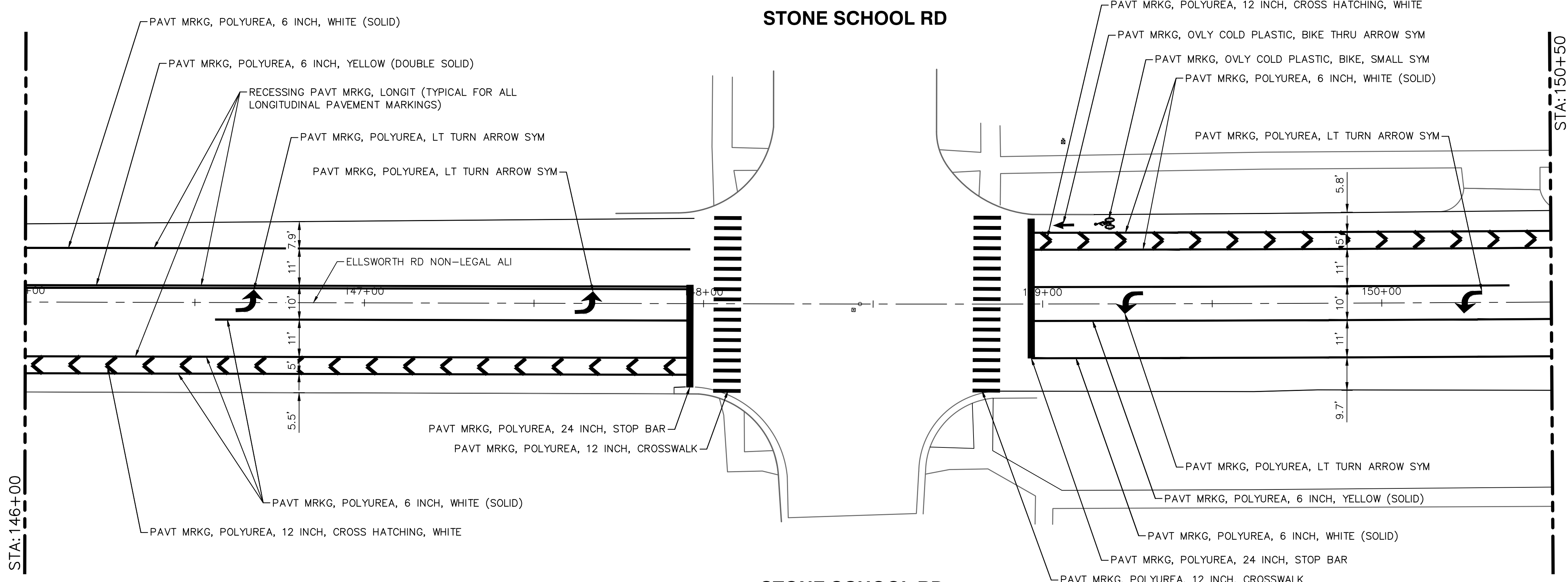
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SHEET No. 23 OF 32

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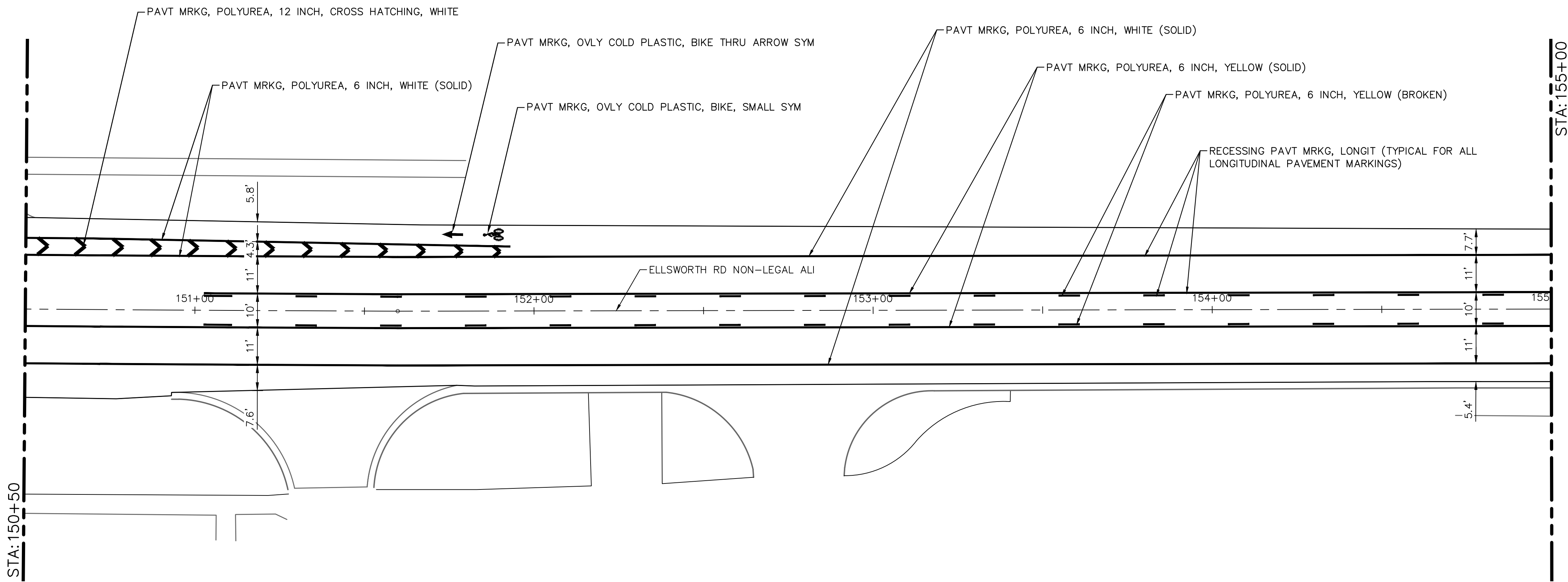
ELLSWORTH RD



ELLSWORTH RD

STONE SCHOOL RD  
PAVEMENT MARKING PLAN - STA 146+00 TO STA 150+50

ELLSWORTH RD



ELLSWORTH RD

PAVEMENT MARKING PLAN - STA 150+50 TO STA 155+00

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	2	Ea
Pavt Mrkg, Polyurea, 6 inch, Yellow	2000	Ft
Pavt Mrkg, Polyurea, 6 inch, White	2374	Ft
Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, White	347	Ft
Pavt Mrkg, Polyurea, 12 inch, Crosswalk	288	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	73	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	4	Ea
Recessing Pavt Mrkg, Longit	4374	Ft
Pavt Mrkg, Ovly Cold Plastic, Bike Thru Arrow Sym	2	Ea

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ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT

PAVEMENT STRIPING PLAN - STA 146+00 TO STA 155+00

SCALE: 1" = 20'

DRAWING No. 2022010-24

SHEET No. 24 OF 32

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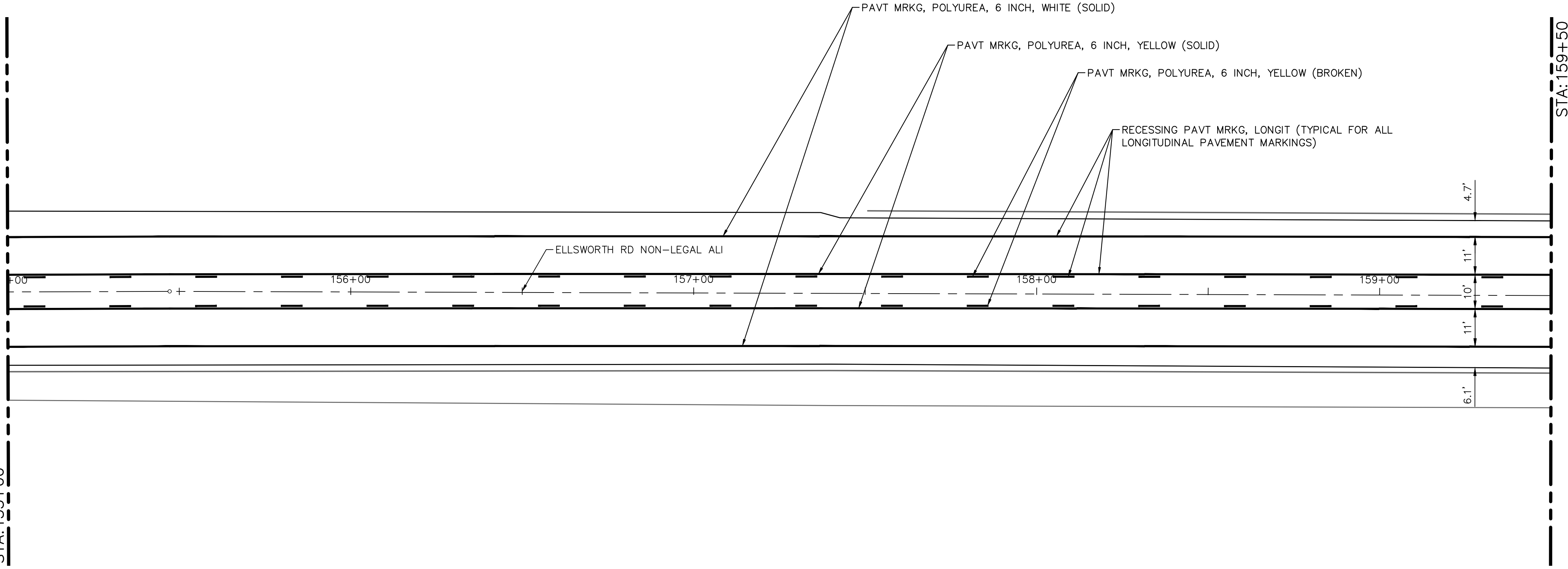
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ELLSWORTH RD

STA: 155+00



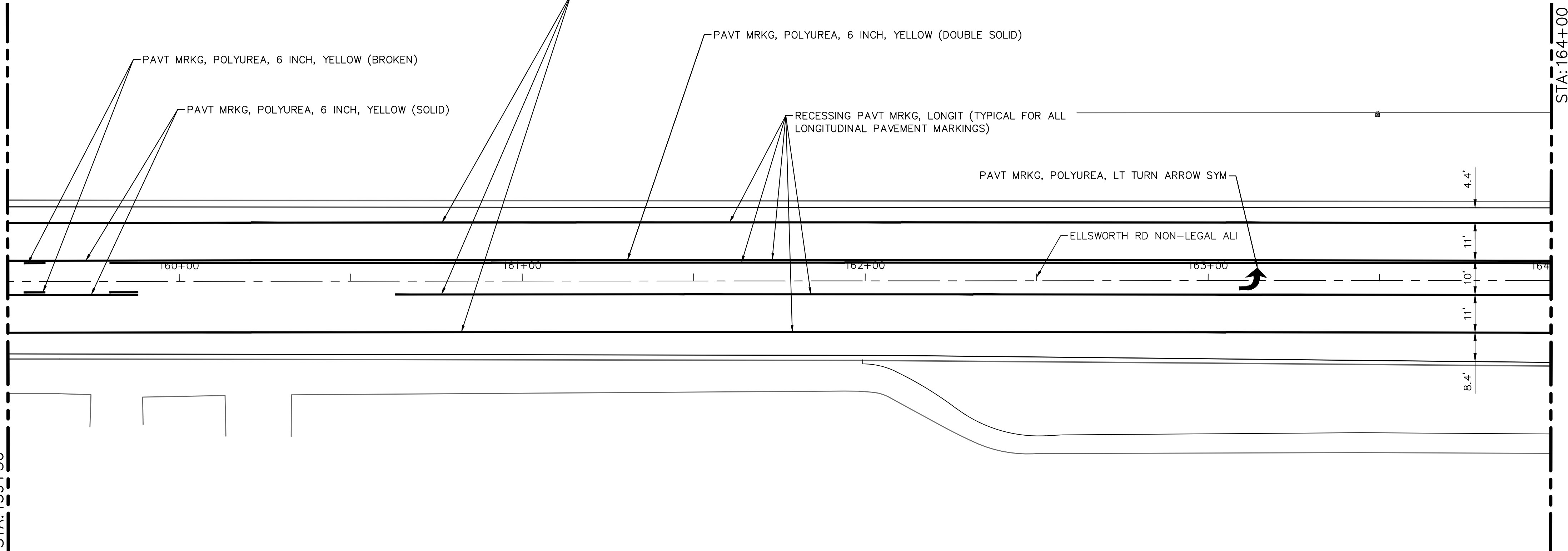
STA: 159+50

ELLSWORTH RD

PAVEMENT MARKING PLAN - STA 155+00 TO STA 159+50

ELLSWORTH RD

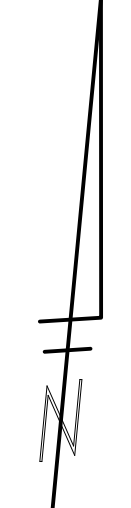
STA: 159+50



STA: 164+00

ELLSWORTH RD

PAVEMENT MARKING PLAN - STA 159+50 TO STA 164+00



PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2301	Ft
Pavt Mrkg, Polyurea, 6 inch, White	2138	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	1	Eq
Recessing Pavt Mrkg, Longit	4439	Ft



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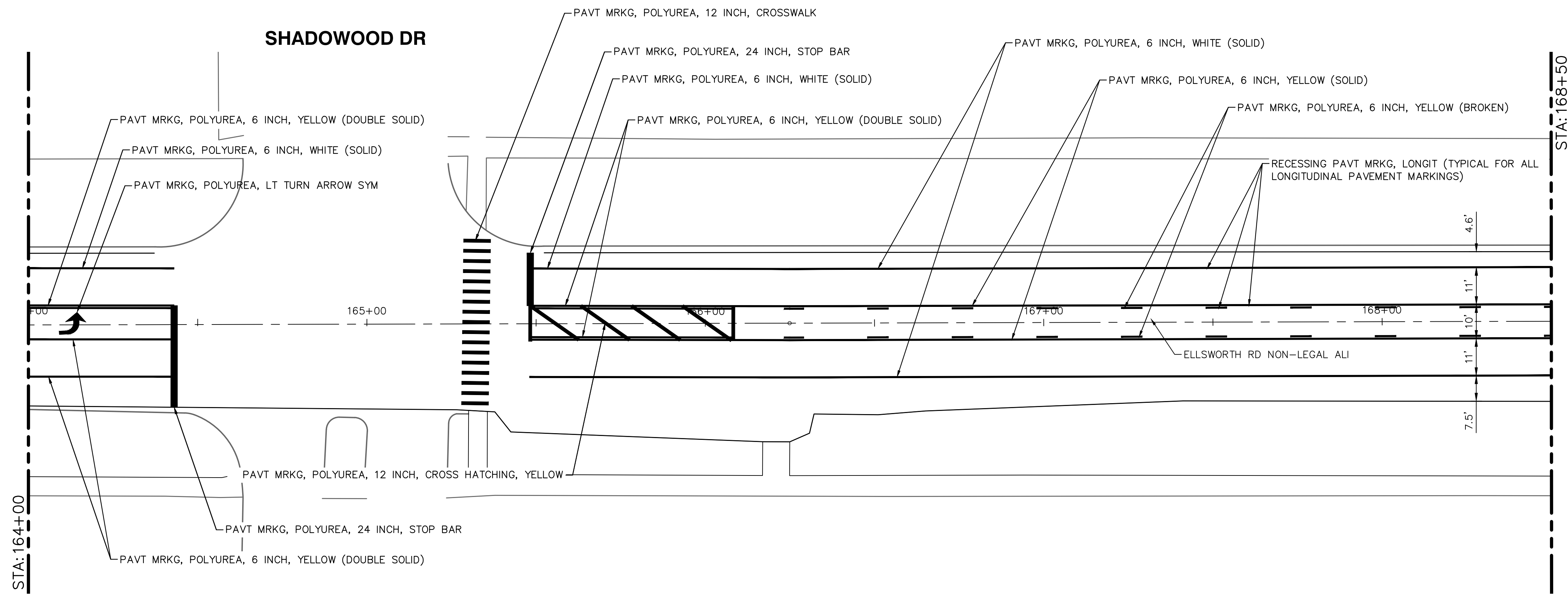
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ELLSWORTH RD RESURFACING  
IMPROVEMENTS PROJECT  
PAVEMENT STRIPING PLAN - STA 155+00 TO STA 164+00

SCALE: 1" = 20'  
DRAWING No. 2022010-25

REV.	DESCRIPTION	DATE	BY	CHECKED
00	COPY TO NEXT LINE AND EDIT THE TEXT			

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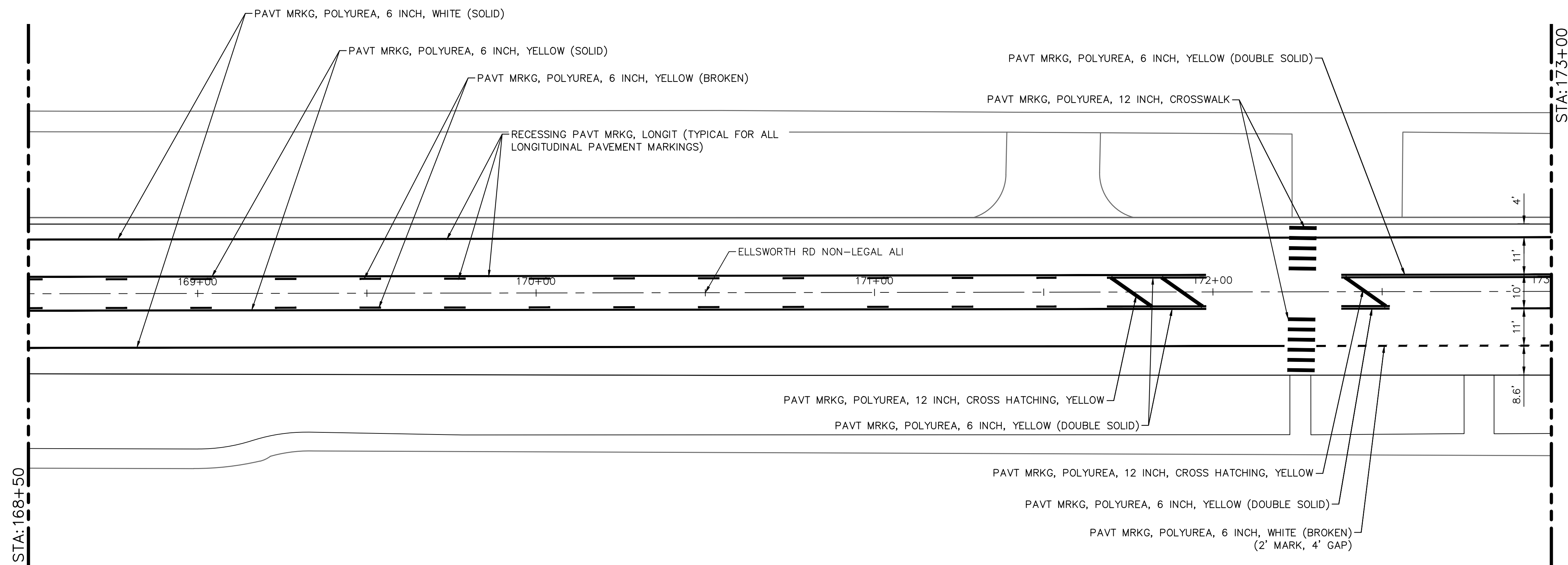
ELLSWORTH RD



W R WHEELER SERVICE CTR

PAVEMENT MARKING PLAN - STA 164+00 TO STA 168+50

ELLSWORTH RD



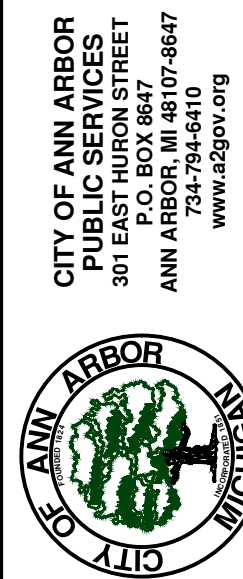
PAVEMENT MARKING PLAN - STA 168+50 TO STA 173+00

ELLSWORTH RD

ELLSWORTH RD

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	1810	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1592	Ft
Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow	145	Ft
Pavt Mrkg, Polyurea, 12 inch, Crosswalk	224	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	47	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	1	Ea
Recessing Pavt Mrkg, Longit	3402	Ft



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 ELLSWORTH RD RESURFACING  
 IMPROVEMENTS PROJECT  
 PAVEMENT STRIPING PLAN - STA 164+00 TO STA 173+00

SCALE: 1" = 20'  
 DRAWING No. 2022010-26



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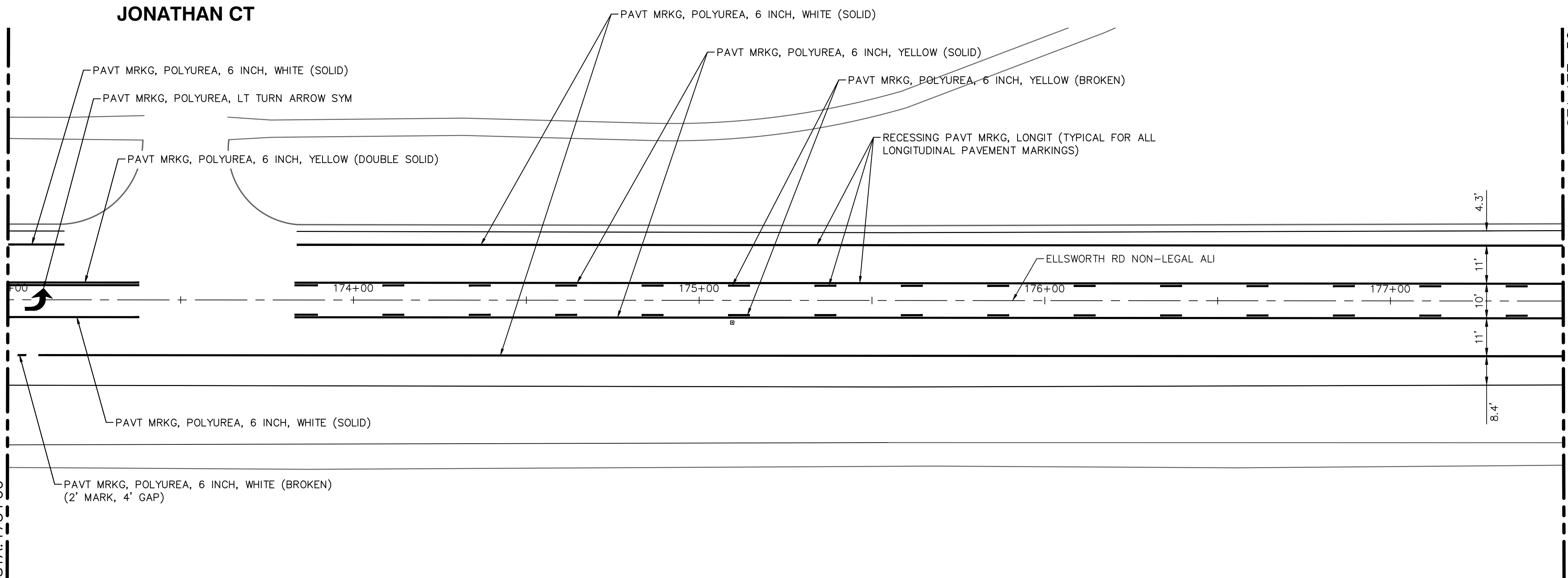
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 ANN ARBOR, MI 48106-6647  
 734.794.4410  
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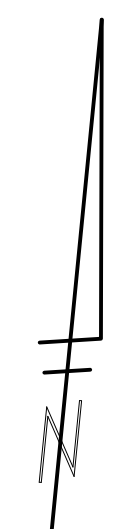
ELLSWORTH RD

STA: 173+00



STA: 177+50

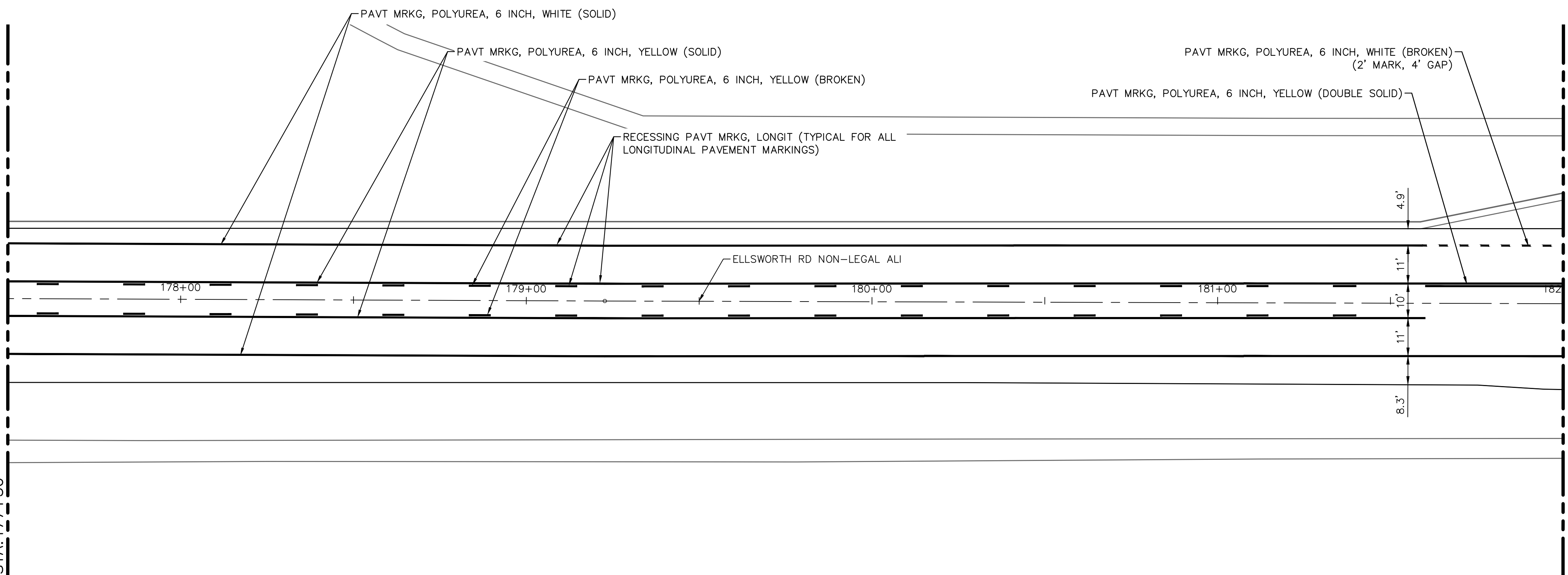
ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 173+00 TO STA 177+50

ELLSWORTH RD

STA: 177+50



STA: 182+00

ELLSWORTH RD

PAVEMENT MARKING PLAN - STA 177+50 TO STA 182+00

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2486	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1738	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	1	Eq
Recessing Pavt Mrkg, Longit	4224	Ft



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IMPROVEMENTS PROJECT  
PAVEMENT STRIPING PLAN - STA 173+00 TO STA 182+00

SCALE: 1" = 20'  
DRAWING No. 2022010-27

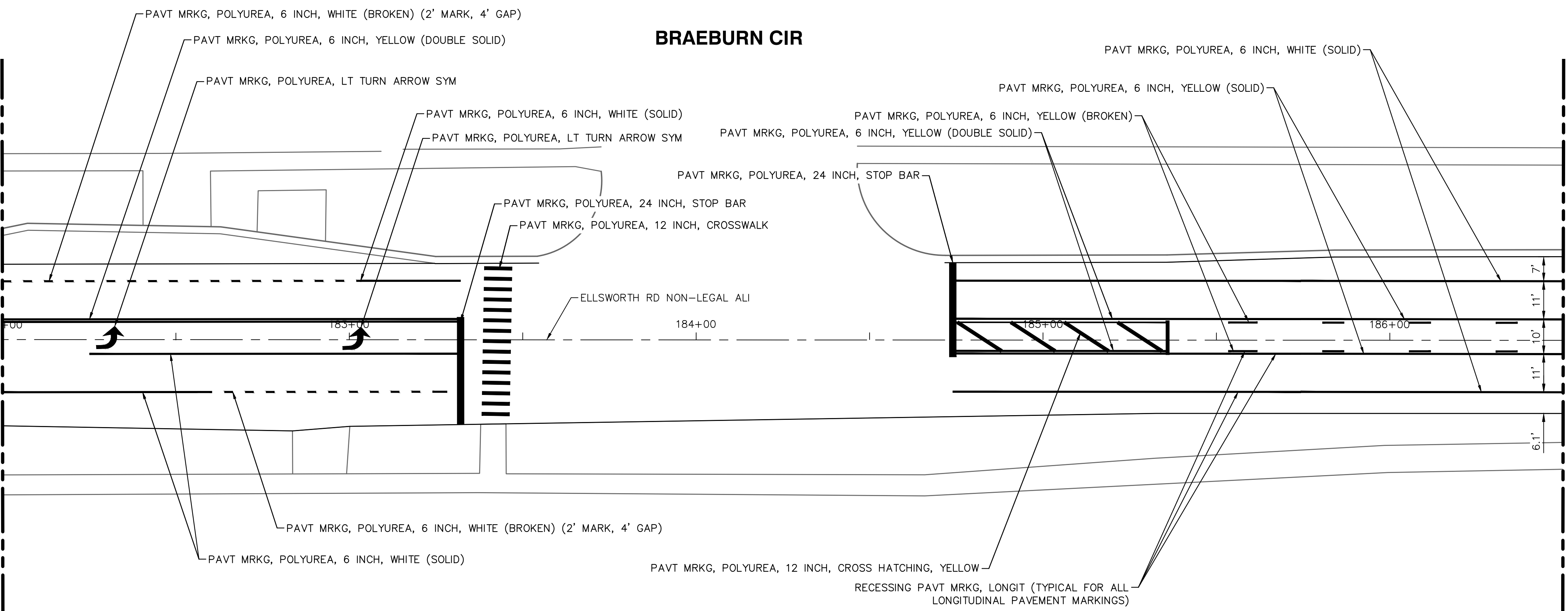
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ELLSWORTH RD

STA: 182+00

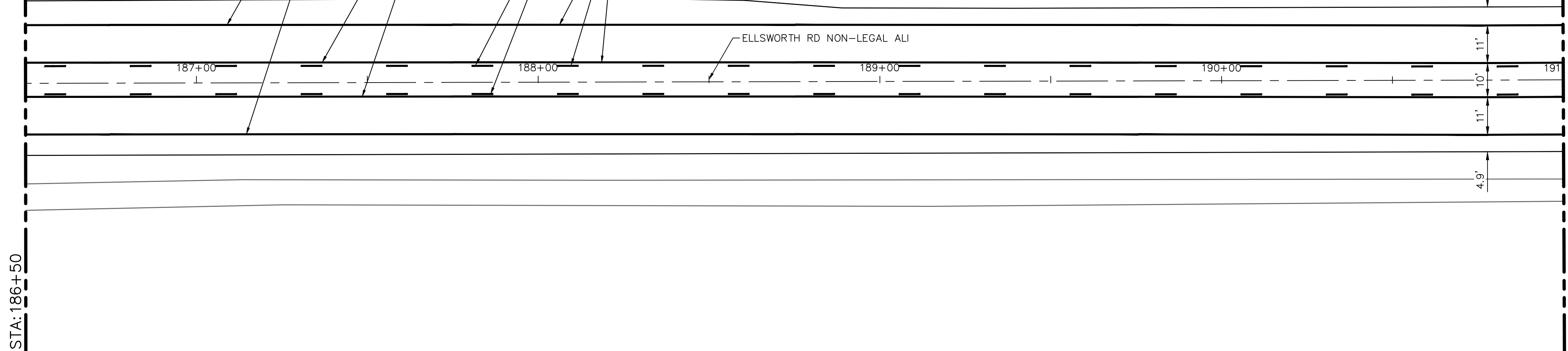
STA: 186+50



PAVEMENT MARKING PLAN - STA 182+00 TO STA 186+50

ELLSWORTH RD

STA: 186+50



PAVEMENT MARKING PLAN - STA 186+50 TO STA 191+00

ELLSWORTH RD

STA: 186+50

ELLSWORTH RD

STA: 191+00

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	2192	Ft
Pavt Mrkg, Polyurea, 12 inch, Cross Hatching, Yellow	84	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1507	Ft
Pavt Mrkg, Polyurea, 12 inch, Crosswalk	120	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	59	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	2	Ea
Recessing Pavt Mrkg, Longit	3699	Ft



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PAVEMENT STRIPING PLAN - STA 182+00 TO STA 191+00

SCALE: 1" = 20'  
DRAWING No. 2022010-28

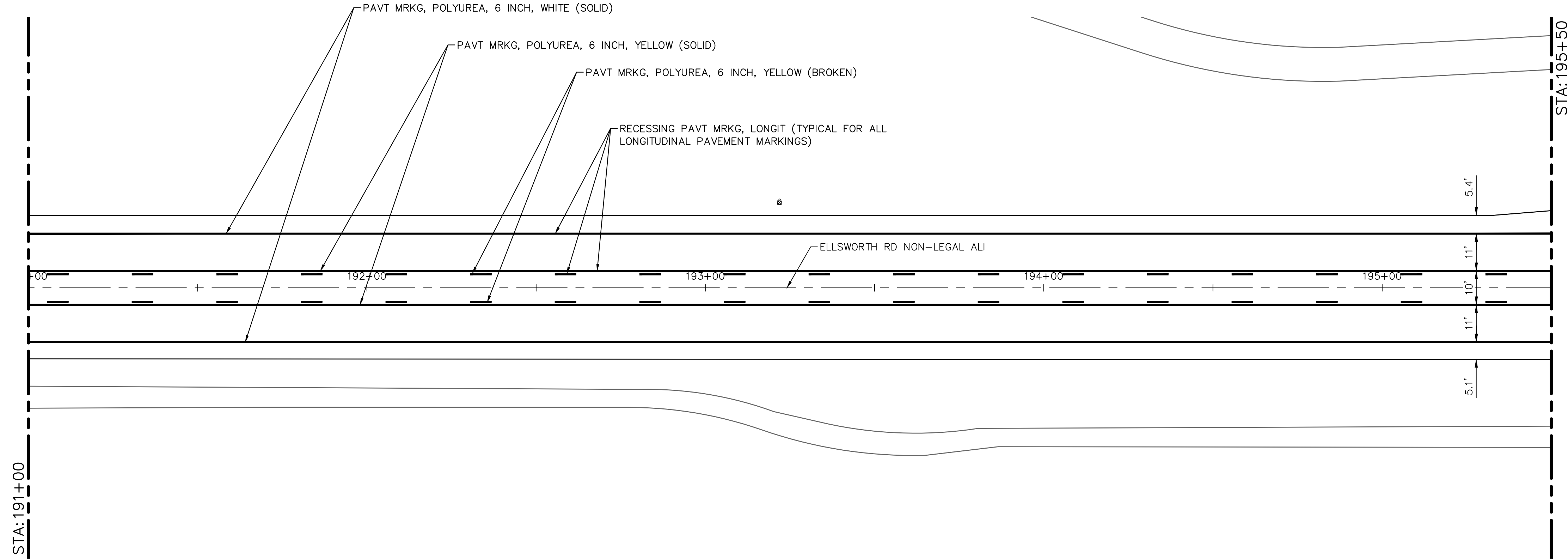
SHEET No. 28 OF 32

REV.	DESCRIPTION	DATE	DATE	BY	BY	CHECKED
00	COPY TO NEXT LINE AND EDIT THE TEXT					



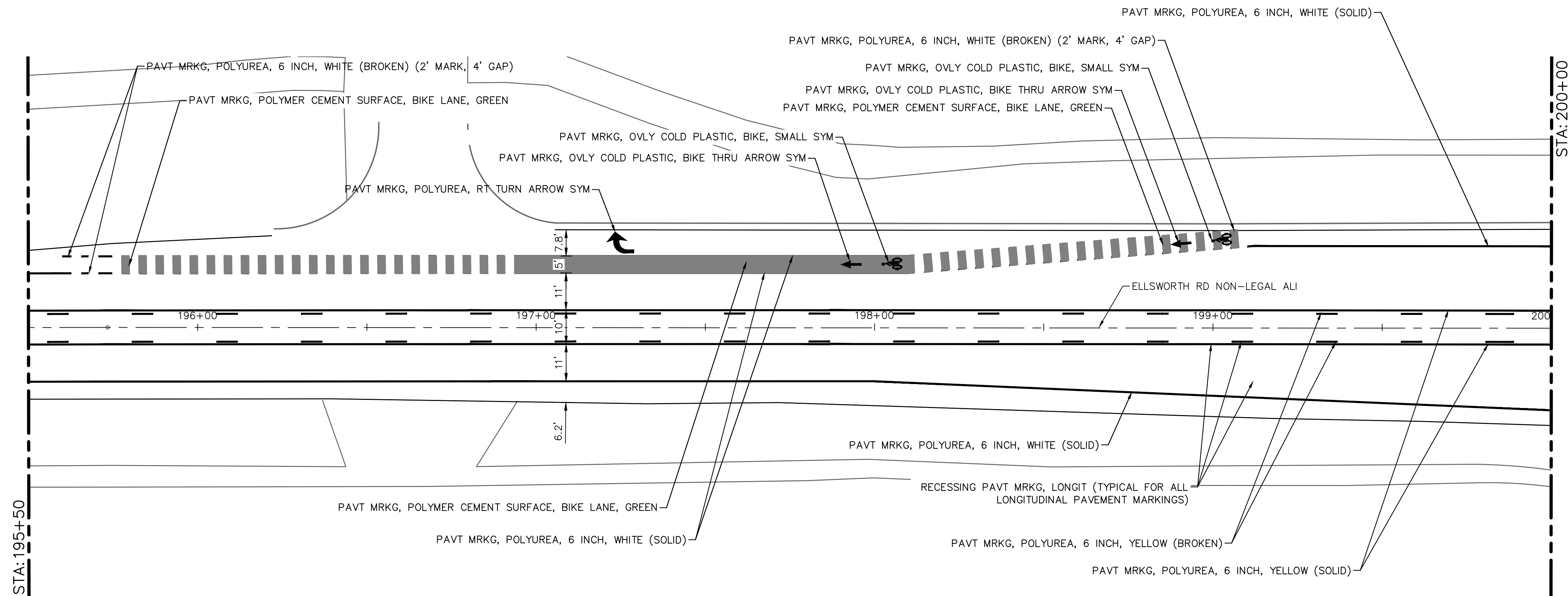
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ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 191+00 TO STA 195+50

ELLSWORTH RD



PAVEMENT MARKING PLAN - STA 195+50 TO STA 200+00

ELLSWORTH RD

ELLSWORTH RD

PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Ovj Cold Plastic, Bike, Small Sym	2	Ea
Pavt Mrkg, Polyurea, 6 inch, Yellow	2700	Ft
Pavt Mrkg, Polyurea, 6 inch, White	1868	Ft
Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	1	Ea
Recessing Pavt Mrkg, Longit	4568	Ft
Pavt Mrkg, Ovj Cold Plastic, Bike Thru Arrow Sym	2	Ea
Pavt Mrkg, Polymer Cement Surface, Bike Lane, Green	1012	Sft



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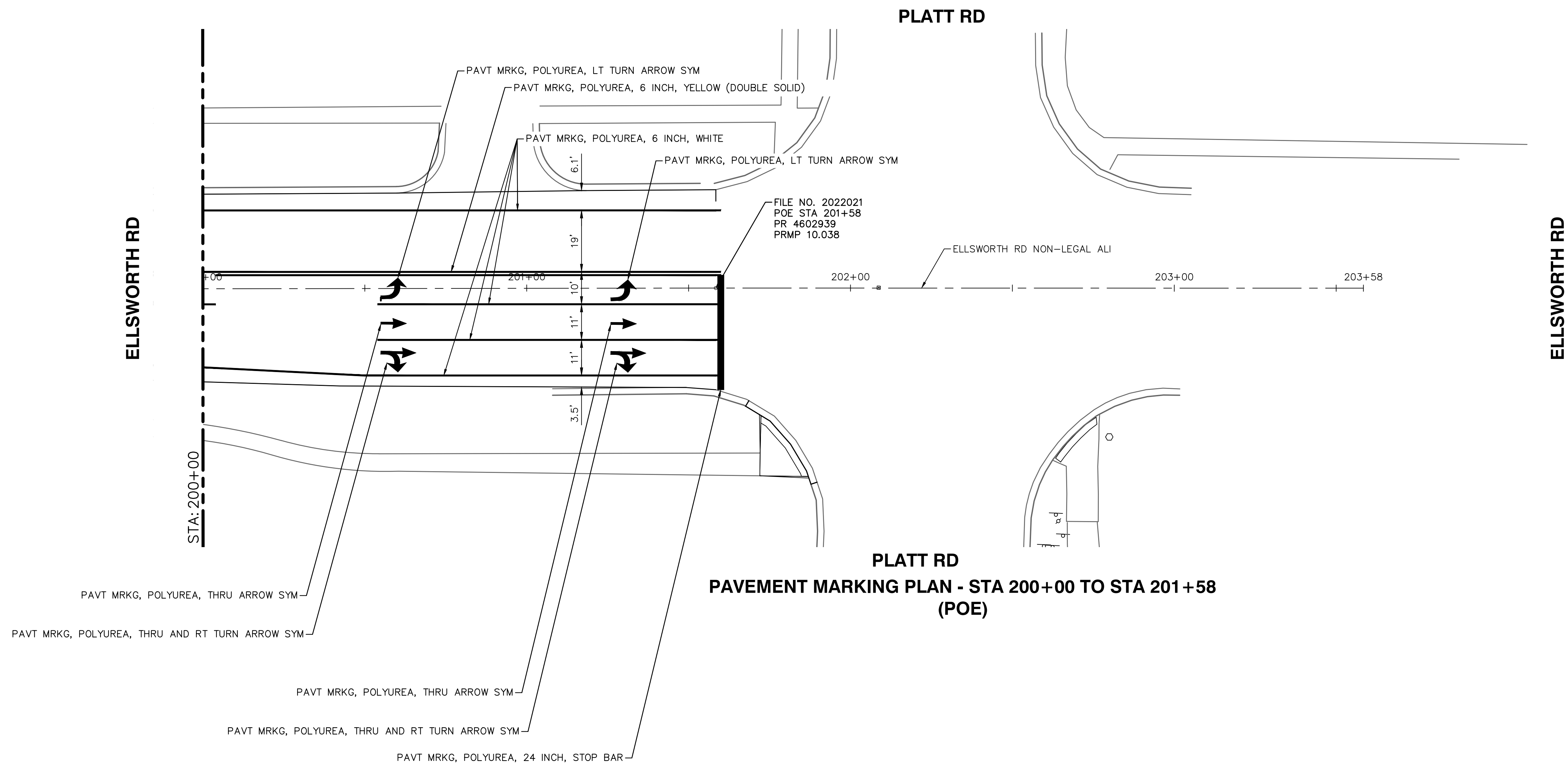


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IMPROVEMENTS PROJECT  
PAVEMENT STRIPING PLAN - STA 191+00 TO STA 200+00

SCALE: 1" = 20'  
DRAWING No. 2022010-29  
SHEET No. 29 OF 32

REV.	DESCRIPTION	DATE	BY	CHECKED
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PAVEMENT MARKING QUANTITIES - THIS SHEET

Item	Quantity	Unit
Pavt Mrkg, Polyurea, 6 inch, Yellow	320	Ft
Pavt Mrkg, Polyurea, 6 inch, White	533	Ft
Pavt Mrkg, Polyurea, 24 inch, Stop Bar	36	Ft
Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	2	Ea
Pavt Mrkg, Polyurea, Thru and Rt Turn Arrow Sym	2	Ea
Pavt Mrkg, Polyurea, Thru Arrow Sym	2	Ea
Recessing Pavt Mrkg, Longit	853	Ft



REV.	DESCRIPTION	DATE	BY	CHECKED

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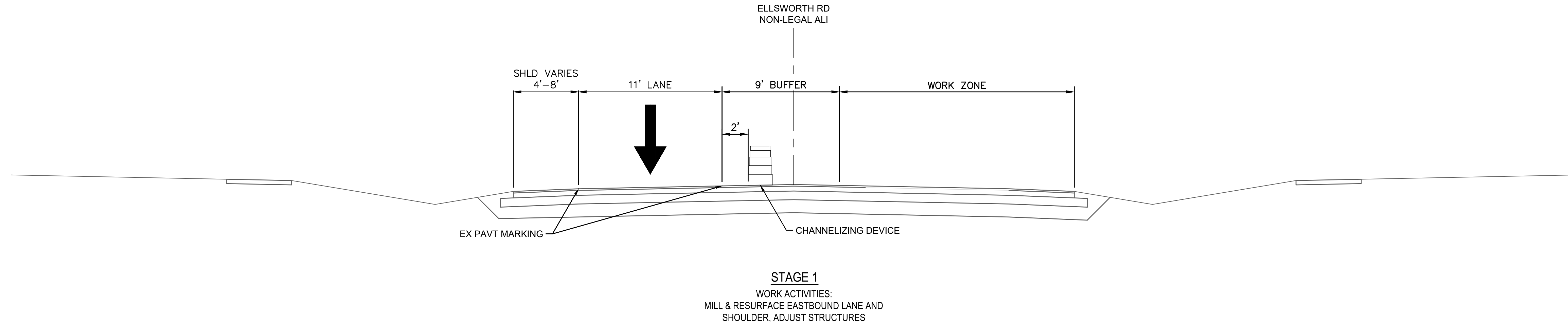


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**ELLSWORTH RD RESURFACING**  
 IMPROVEMENTS PROJECT  
 PAVEMENT STRIPING PLAN - STA 200+00 TO STA 201+58 (POE)

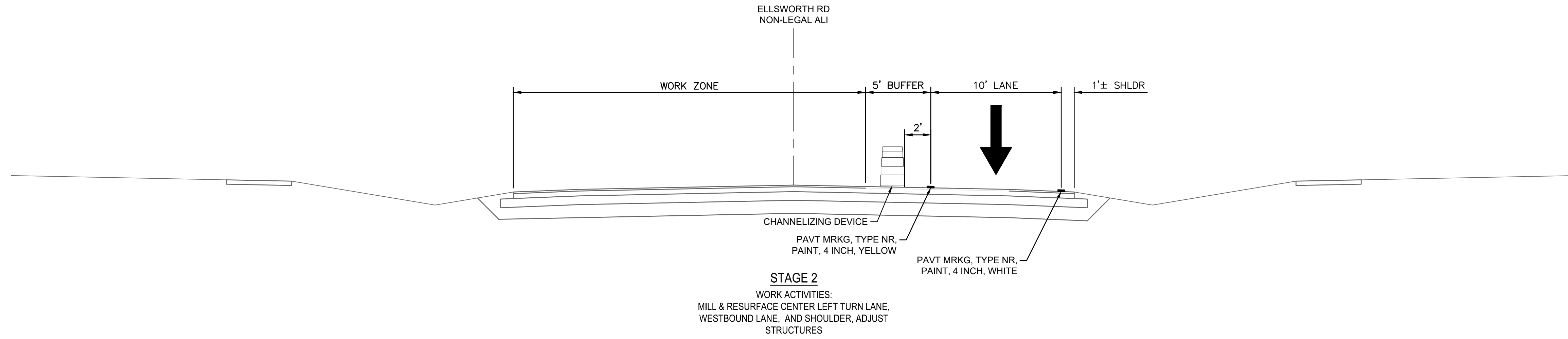
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 DRAWING No. 2022010-30



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**STAGE 1**  
 WORK ACTIVITIES:  
 MILL & RESURFACE EASTBOUND LANE AND  
 SHOULDER, ADJUST STRUCTURES



**STAGE 2**  
 WORK ACTIVITIES:  
 MILL & RESURFACE CENTER LEFT TURN LANE,  
 WESTBOUND LANE, AND SHOULDER, ADJUST  
 STRUCTURES



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

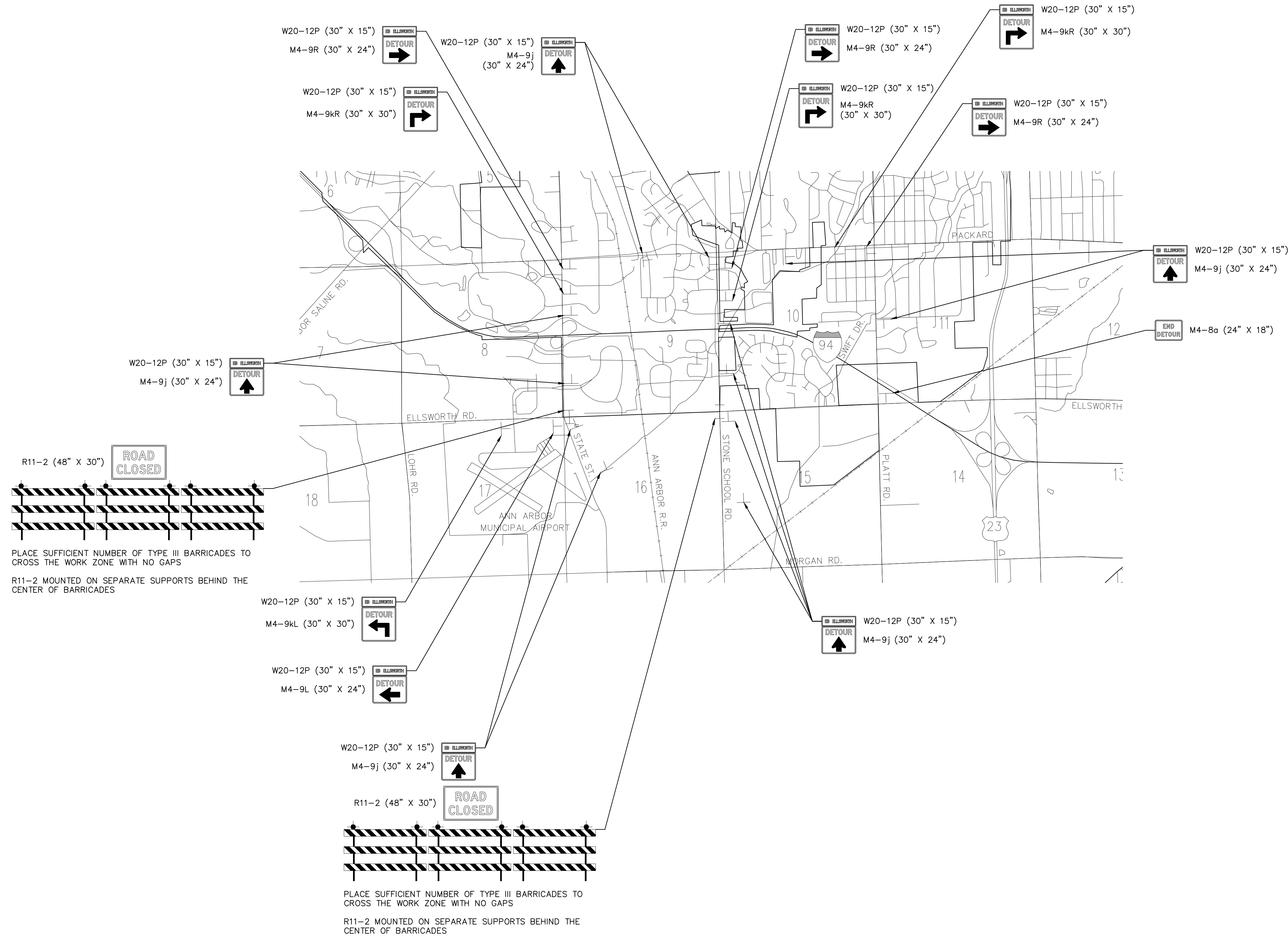
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 IMPROVEMENTS PROJECT  
 MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS

SCALE: 1" = 5'  
 DRAWING No. 2022010-31

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IMPROVEMENTS PROJECT  
MAINTENANCE OF TRAFFIC - DETOUR PLAN

SCALE: NTS  
DRAWING No. 2022010-32