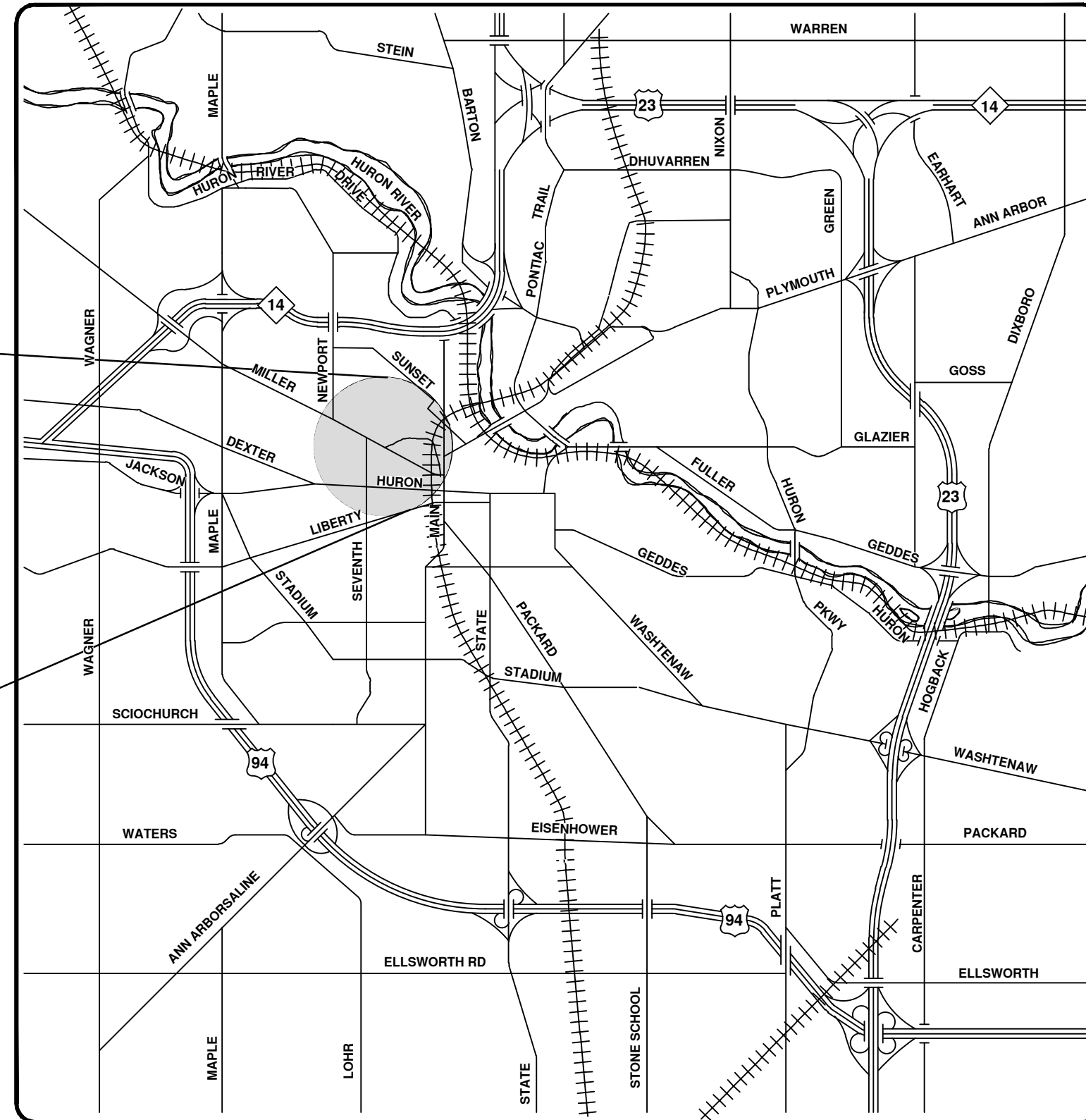
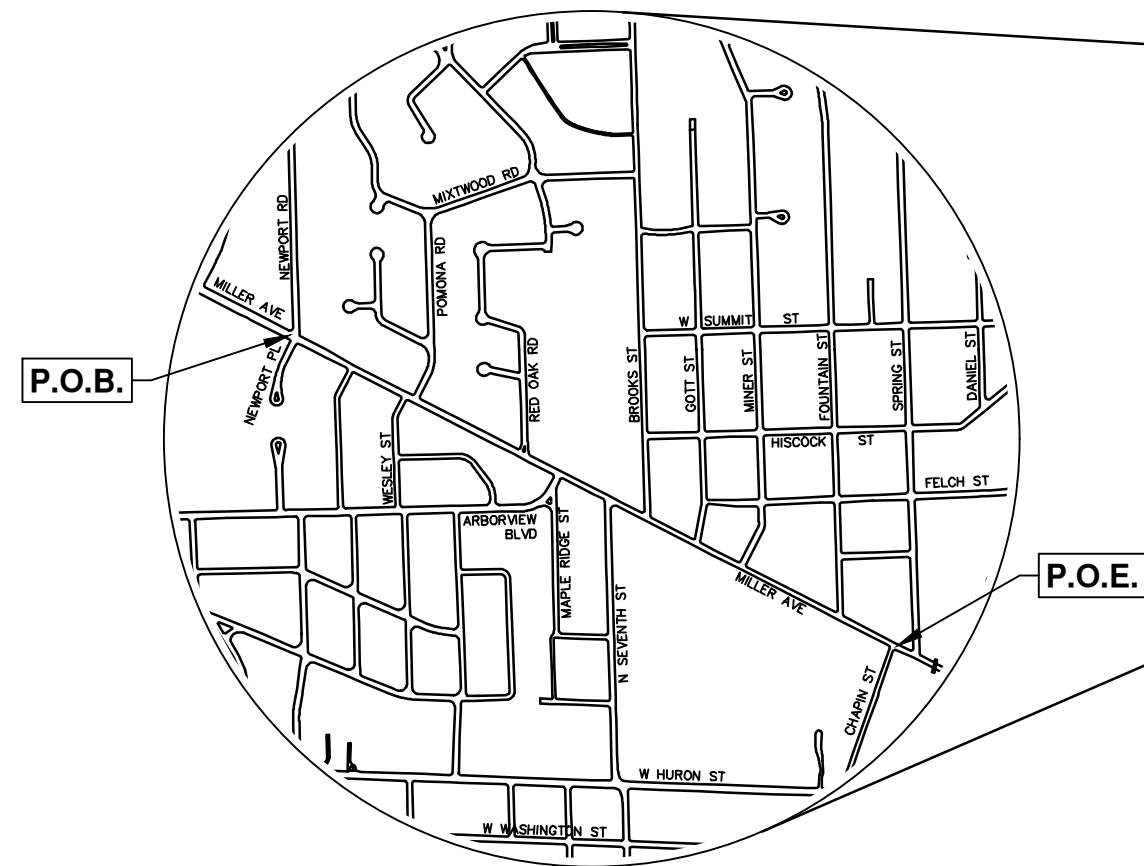
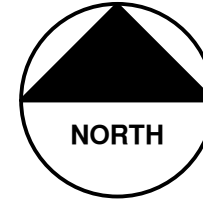




CITY OF ANN ARBOR ENGINEERING MILLER AVENUE REHABILITATION

RFP No 24-19, FILE No. 2022034



VICINITY MAP

| Sheet List Table | |
|---|--|
| Sheet Number | Sheet Title |
| 1 | Cover Sheet |
| 2 | Notes |
| 3 | Legend |
| 4 | Alternate Pedestrian Route (APR) Detour |
| 5 | Alternate Pedestrian Route (APR) Bypass |
| 6 | TPAR Ramps |
| 7 | TPAR Walkway Devices |
| 8 | Rectangular Rapid Flashing Beacon Assembly |
| 9 | Detectable Tactile Directional Tile |
| 10 | QuickKurb |
| 11 | Misc. Details |
| 12 | Contech ChambeMaxx |
| 13 | Contech ChambeMaxx |
| 14 | Contech ChambeMaxx |
| 15 | Contech ChambeMaxx |
| 16 | Concrete Speed Table Detail |
| 17 | Concrete Raised Intersection Detail |
| 18 | Miller Sections 1 |
| 19 | Miller Sections 2 |
| 20 | Miller Sections 3 |
| 21 | Miller Sections 4 |
| Detour Route | |
| 22 | Phase I Stage I & II (Water Main) |
| 23 | Phase II Stage I & II (Water Main) |
| 24 | Phase II Stage III (Cycle Track) |
| Traffic Control - Phase I Stage I (Newport Water Main Conn) | |
| 25 | 1 P.O.B. - Sta. 61+00 |
| Traffic Control - Phase I Stage II (Water Main) | |
| 26 | 1 P.O.B. - Sta. 61+00 |
| 27 | 2 Sta. 61+00 - P.O.E. |
| Traffic Control - Phase I Stage III (Water Main) | |
| 28 | 1 P.O.B. - Sta. 61+00 |
| 29 | 2 Sta. 61+00 - P.O.E. |
| Traffic Control - Phase II Stage I (Water Main) | |
| 30 | 1 P.O.B. - Sta. 80+00 |
| 31 | 2 Sta. 80+00 - P.O.E. |
| Traffic Control - Phase II Stage II (Water Main) | |
| 32 | 1 P.O.B. - Sta. 80+00 |
| 33 | 2 Sta. 80+00 - P.O.E. |
| Traffic Control - Phase II Stage III (Cycle Track) | |
| 34 | P.O.B. - Sta. 14+00 |
| 35 | Sta. 14+00 - Sta. 30+00 |
| 36 | Sta. 30+00 - Sta. 45+00 |
| 37 | Sta. 45+00 - Sta. 61+00 |
| 38 | Sta. 61+00 - Sta. 77+00 |
| 39 | Sta. 77+00 - P.O.E. |
| Removals | |
| 40 | Sta. 49+13 - Sta. 55+00 |
| 41 | Sta. 55+00 - Sta. 62+00 |
| 42 | Sta. 62+00 - Sta. 69+00 |
| 43 | Sta. 69+00 - Sta. 76+50 |
| 44 | Sta. 76+50 - Sta. 83+00 |
| 45 | Sta. 83+00 - Sta. 88+79 |

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 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 THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

| Proposed Water Main - Newport to N Seventh - Phase I | |
|--|--|
| 46 | Newport and Newport PI Connections |
| 47 | Sta. 0+51 - Sta. 3+75 |
| 48 | Sta. 3+75 - Sta. 8+00 |
| 49 | Pomona and Wesley Connections and H1 Profile |
| 50 | Sta. 8+00 - Sta. 12+50 |
| 51 | Red Oak Connection and H2 and H3 Profiles |
| 52 | Sta. 12+50 - Sta. 16+00 |
| 53 | Sta. 16+00 - Sta. 18+69 |
| Proposed Water Main - N Seventh to Chapin - Phase II | |
| 54 | Sta. 7+33 - Sta. 10+50 |
| 55 | Sta. 10+50 - Sta. 15+00 |
| 56 | Fountain Connection and H7 and H8 Profiles |
| 57 | Sta. 15+00 - Sta. 17+48 |
| Proposed Storm Sewer | |
| 58 | R300,R301,R302,R303,R410,R411 |
| 59 | R400,R401,R404,R407 |
| 60 | R402,R403,R405,R406,R408,R409 |
| 61 | R201,R202,R204,R205,R207,R208,R209 |
| 62 | R100,R101,R102,R103,R104,R105,R108,R109 |
| 63 | R106,R107 |
| Traffic Signal Plan | |
| 64 | N Seventh St & Miller Ave |
| Road Plan & Profile | |
| 65 | Sta. 49+13 - Sta. 52+00 |
| 66 | Sta. 52+00 - Sta. 55+50 |
| 67 | Sta. 55+50 - Sta. 59+00 |
| 68 | Sta. 59+00 - Sta. 62+50 |
| 69 | Sta. 62+50 - Sta. 66+00 |
| 70 | Sta. 66+00 - Sta. 69+50 |
| 71 | Sta. 69+50 - Sta. 73+00 |
| 72 | Sta. 73+00 - Sta. 76+50 |
| 73 | Sta. 76+50 - Sta. 80+00 |
| 74 | Sta. 80+00 - Sta. 84+00 |
| 75 | Sta. 84+00 - Sta. 88+79 |
| Intersection Grades | |
| 76 | Bus Stop Near Newport PI. |
| 77 | Red Oak Rd., Bus Stop Near Arborview Blvd. |
| 78 | N Seventh St, Bus Stop Near Gott St |
| Pavement Markings | |
| 79 | P.O.B. - Sta. 55+00 |
| 80 | Sta. 55+00 - Sta. 62+00 |
| 81 | Sta. 62+00 - Sta. 69+00 |
| 82 | Sta. 69+00 - Sta. 76+50 |
| 83 | Sta. 76+50 - Sta. 83+00 |
| 84 | Sta. 83+00 - P.O.E. |
| Permanent Signing | |
| 85 | P.O.B. - Sta. 14+00 |
| 86 | Sta. 14+00 - Sta. 30+00 |
| 87 | Sta. 30+00 - Sta. 45+00 |
| 88 | Sta. 45+00 - Sta. 61+00 |
| 89 | Sta. 61+00 - Sta. 77+00 |
| 90 | Sta. 77+00 - P.O.E. |

PREPARED UNDER THE SUPERVISION OF

Jane K. Allen
JANE KATHERINE ALLEN, P.E. - MI LICENSE No. 57254
 PROJECT MANAGER

04 / 09 / 2024
 DATE



| NO. | DATE | DESCRIPTION | REV. |
|-----|--------|-------------|---------|
| 00 | 4-9-24 | BID SET | DO |
| | | A2D | JKA |
| | | DRAWN | CHECKED |

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-0001
 ANN ARBOR 734-794-4410
 WWW.A2GOV.ORG



Description:
 This Miller Avenue Improvement Project consists of installing approximately 2900 feet of new water main and 1700 feet of new storm sewer between Newport Rd and Chapin Street from the Miller / S Red Oak Rd to Miller / S Seventh with the installation of new Rectangular Rapid Flashing Beacons (RRFBs) at Red Oak, along with associated concrete work, pavement markings, and restoration.

SCALE
 DRAWING No. 2022034-1
 SHEET No. 1 OF 130

CONSTRUCTION NOTES:

1. 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.
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".
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. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
11. "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.
12. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
13. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
14. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
15. 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".
16. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
17. The location of material stock piles and on-site staging areas to be approved by the Engineer.
18. 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.
19. 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.

| MILLER AVENUE REHAB BENCHMARKS | | |
|--------------------------------|---------|---|
| BM # | ELEV | DESCRIPTION |
| 1 | 797.186 | S.W. ANCHOR BOLT ON SUPPORT POLE FOR SIGNALS @ N.E. CORNER OF MILLER AND FIRST |
| 2 | 792.872 | SET RR SPIKE IN S. SIDE OF L.P. ON N. SIDE OF MILLER @ ENTRANCE TO FIRST MILLER BUSINESS CENTER |
| 3 | 794.390 | N.E. CORNER OF MAIL BOX PAD @ N.W. CORNER OF MILLER AND SPRING |
| 4 | 798.274 | SET RR SPIKE IN S. SIDE OF L.P. ON N. SIDE OF MILLER AT CHAPIN |
| 5 | 818.597 | SET RR SPIKE IN S.W. SIDE OF L.P. @ N.E. CORNER OF MILLER AND FOUNTAIN |
| 6 | 833.388 | SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF MILLER ACROSS FROM HSE NO. 620 |
| 7 | 839.564 | SET RR SPIKE IN S. SIDE OF U.P. @ N.W. CORNER OF MILLER AND MINER |
| 8 | 845.877 | SET RR SPIKE IN N. SIDE OF L.P. ON S. SIDE OF MILLER IN FRONT OF MILLER APARTMENTS @ 801 MILLER |
| 9 | 852.358 | RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF MILLER @ BROOKS. (BROOKS STREET PROJECT, BK 1124 P55) |
| 10 | 855.314 | SET RR SPIKE IN N. SIDE OF U.P. @ S.E. CORNER OF MILLER AND SEVENTH |
| 11 | 845.506 | SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF MILLER AT ARBORVIEW |
| 12 | 852.220 | SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF MILLER AT RED OAK |
| 13 | 864.548 | SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF MILLER IN FRONT OF HSE NO. 1107 |
| 14 | 872.353 | SET RR SPIKE IN S. SIDE OF U.P. AT NW CORNER OF MILLER AND POMONA |
| 15 | 881.960 | FND 60D NAIL IN N. SIDE OF U.P. ON S. SIDE OF MILLER BETWEEN HSE NO'S 1305 AND 1309 |
| 16 | 889.525 | FND BOAT SPIKE IN U.P. @ SE CORNER OF MILLER & LINDA VISTA |
| 17 | 900.375 | SET RR SPIKE IN S. SIDE OF L.P. AT NE CORNER OF MILLER AND NEWPORT |

| | |
|---------------------------------------|-----------------------------------|
| IMPERVIOUS PROJECT AREA | |
| PRIOR TO CONSTRUCTION = x.xx ACRES | POST CONSTRUCTION = x.xx ACRES |

| |
|---|
| AREA OF PROPOSED DISTURBANCE = x.xx ACRES |
|---|

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 |
|------------------------------------|--|
| WATER MAIN CONSTRUCTION PERMIT | MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) |
| SANITARY SEWER CONSTRUCTION PERMIT | MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) |

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 | | |
| SIGNALS STREET LIGHTS | | |
| FIBER OPTIC | CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCOM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107 | (734) 794-6550 |
| 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 |
| CABLE | COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034 | STEPHEN BECK (248) 972-7511 |
| PHONE | AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103 | STEVEN ALLSHOUSE (734) 996-5381 |
| FIBER OPTIC | MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082 | DEAN BOYERS (972) 729-6016 |
| FIBER OPTIC | WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532 | GREG SERICH (810) 244-3500 |
| STREET LIGHTING | DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 | LANCE ALLEY (734) 397-4188 |

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Know what's below.
Call Before you dig.

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| | | | | JCA | CHECKED |
| | | | | AZD | DRAWN |
| | | | | 4-9-24 | DATE |

REV.

DO

BID SET

DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
ANN ARBOR 734-794-4410
www.a3gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

NOTES

SCALE: NTS

DRAWING No. 2022034-2

SHEET No.

2 OF 130

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 | TREE (DECIDUOUS) | |
| IRON PIPE | TREE (CONIFEROUS) | |
| MON BOX | 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

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



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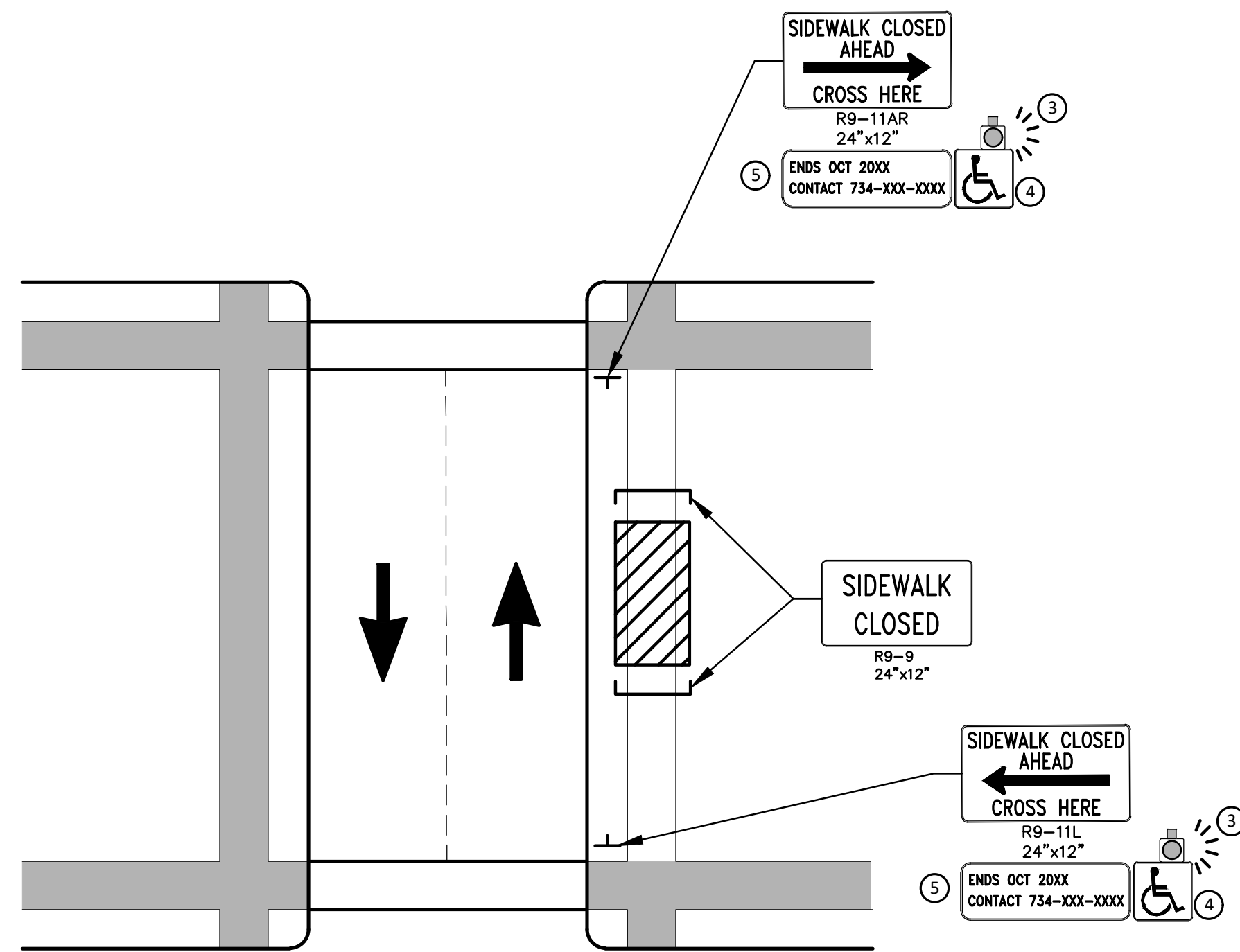
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
www.a2gov.org



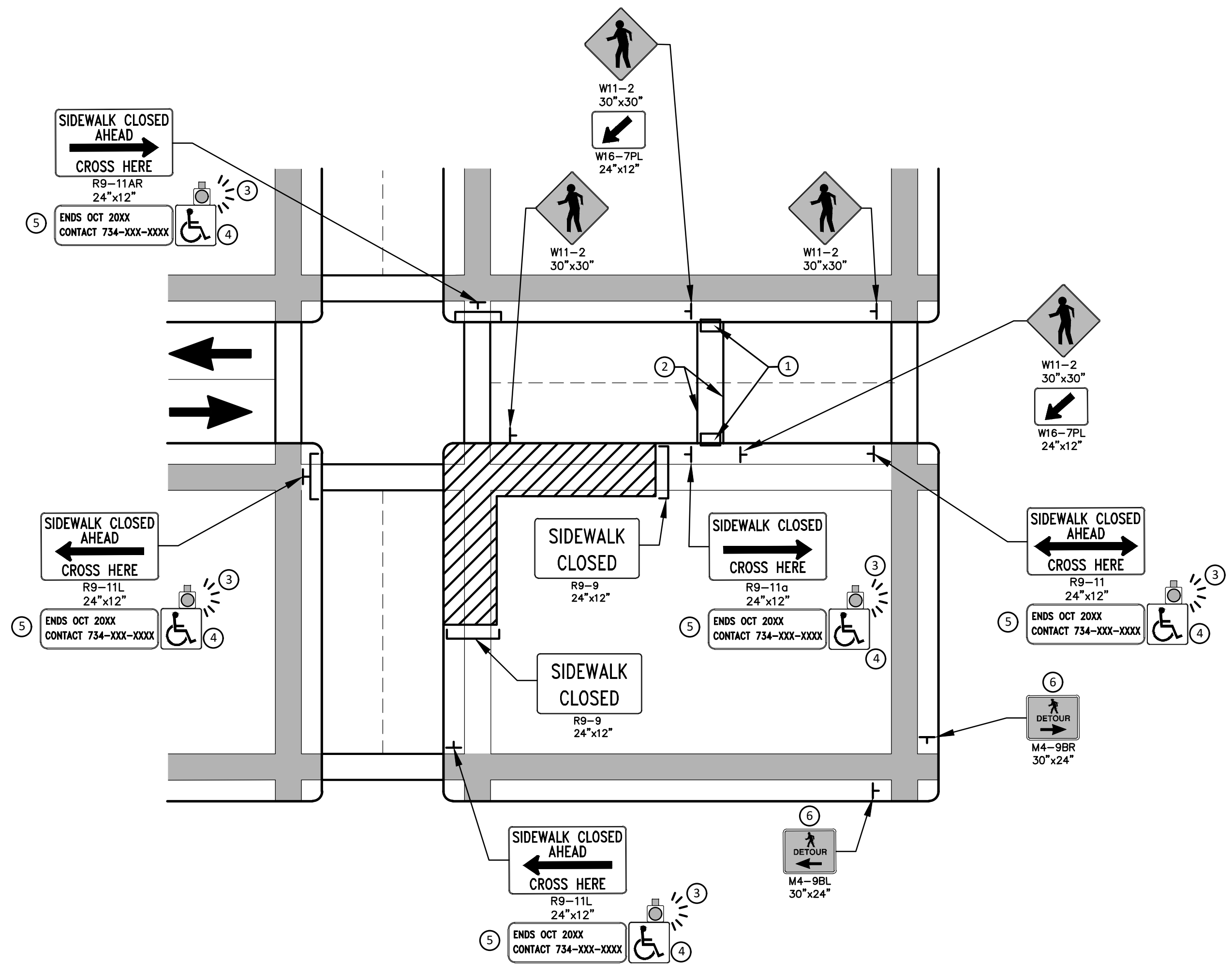
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
LEGEND

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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLAN, SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE

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MILLER AVENUE REHABILITATION

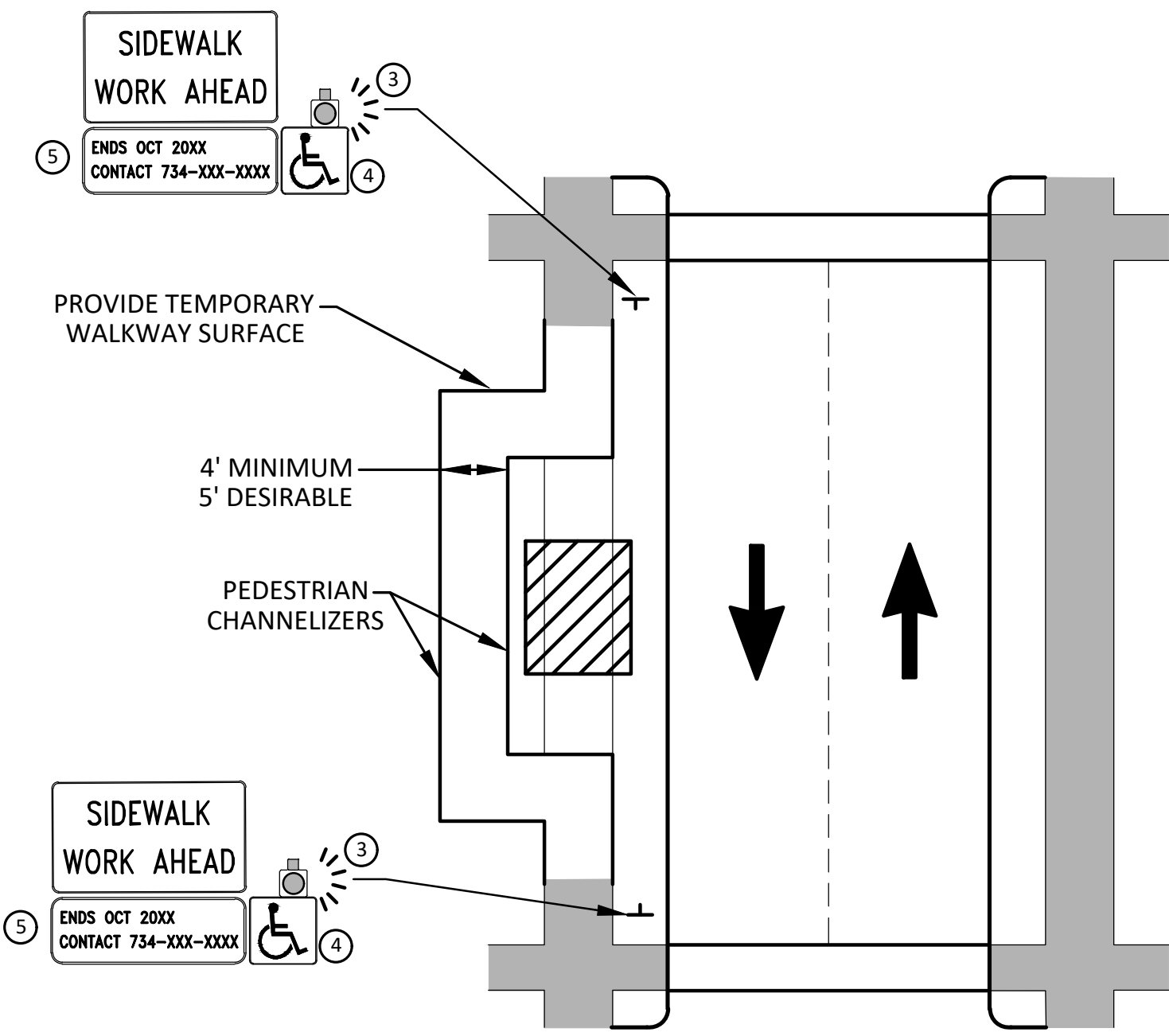
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

SCALE: N.T.S.

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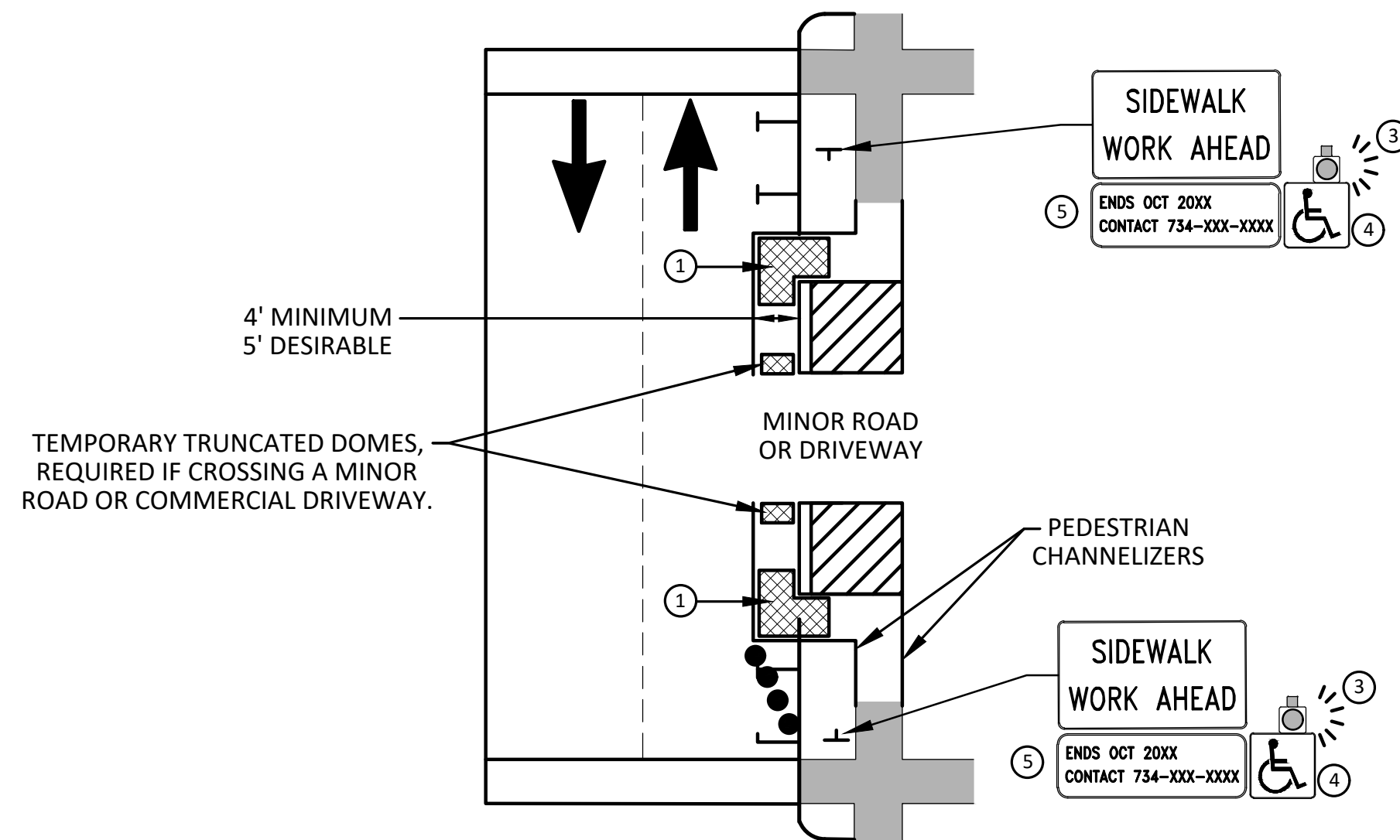
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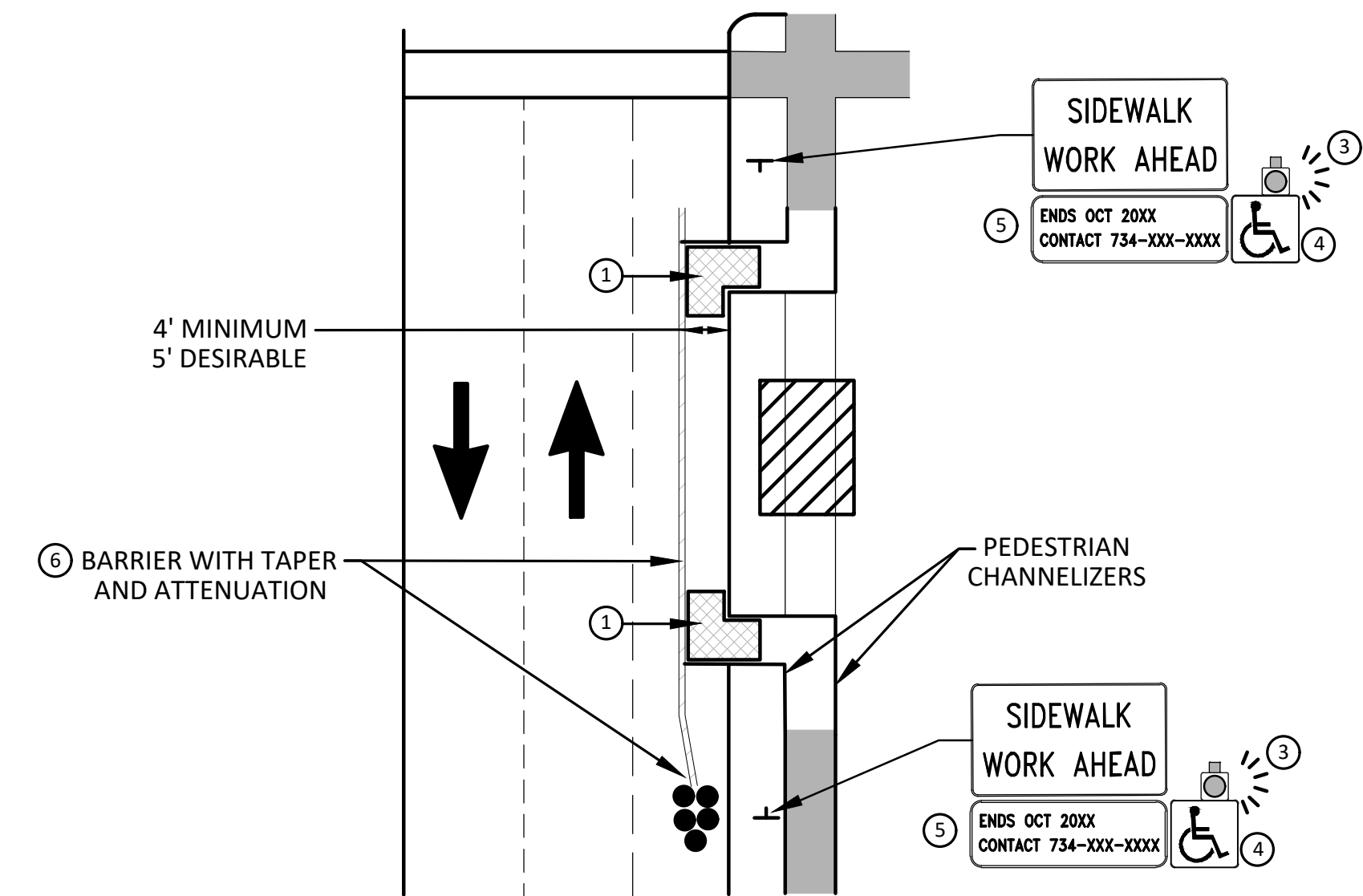


**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY
BYPASS TYPE A**

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED
SPEED OF 45 MPH OR LESS.



**SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY
BYPASS TYPE B**



**SIDEWALK BYPASS USING
SHOULDER OR PARKING LANE ON
HIGH SPEED ROADWAY
BYPASS TYPE C**

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMP WITH DETECTABLE WARNINGS.
2. S DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

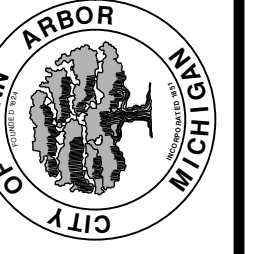
LEGEND

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▩ WORK AREA
- ▤ PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



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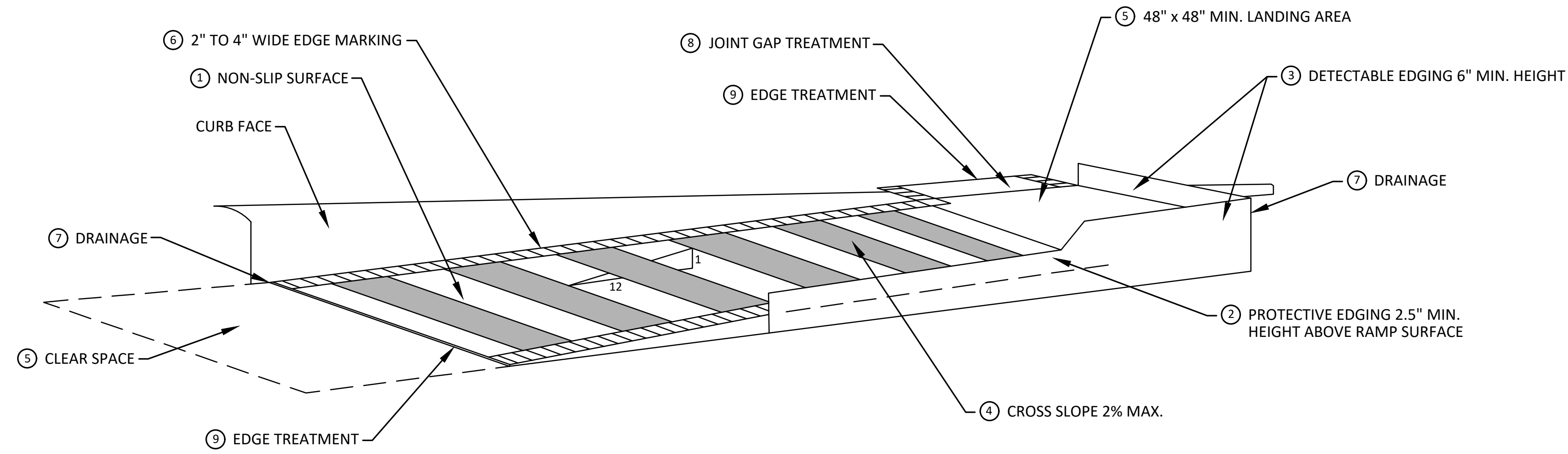
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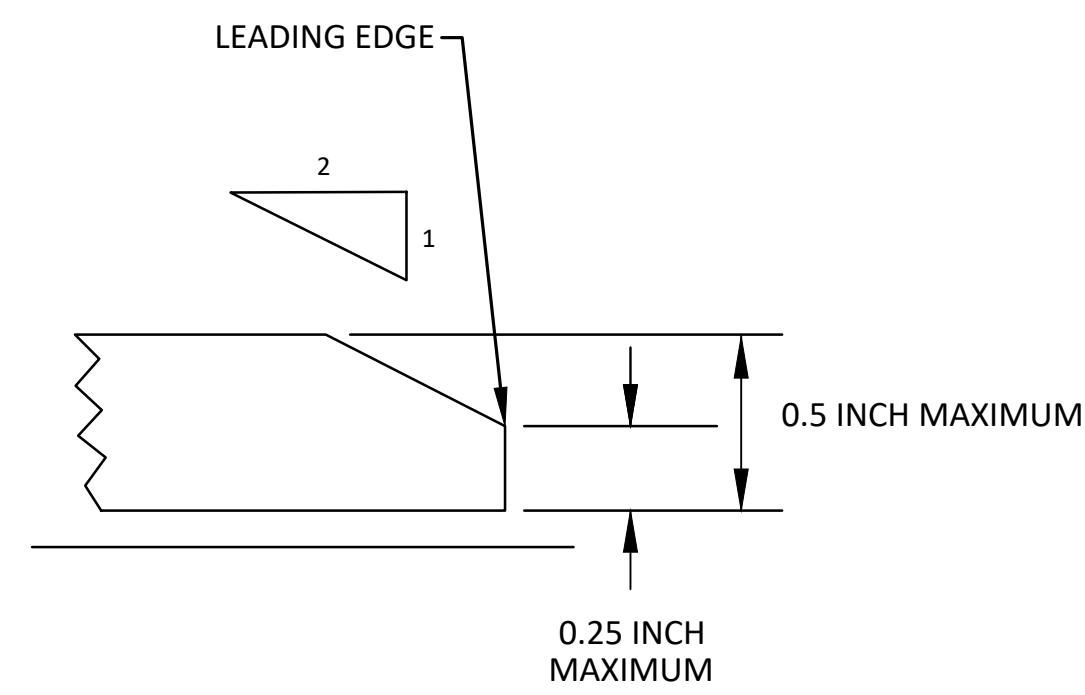
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ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

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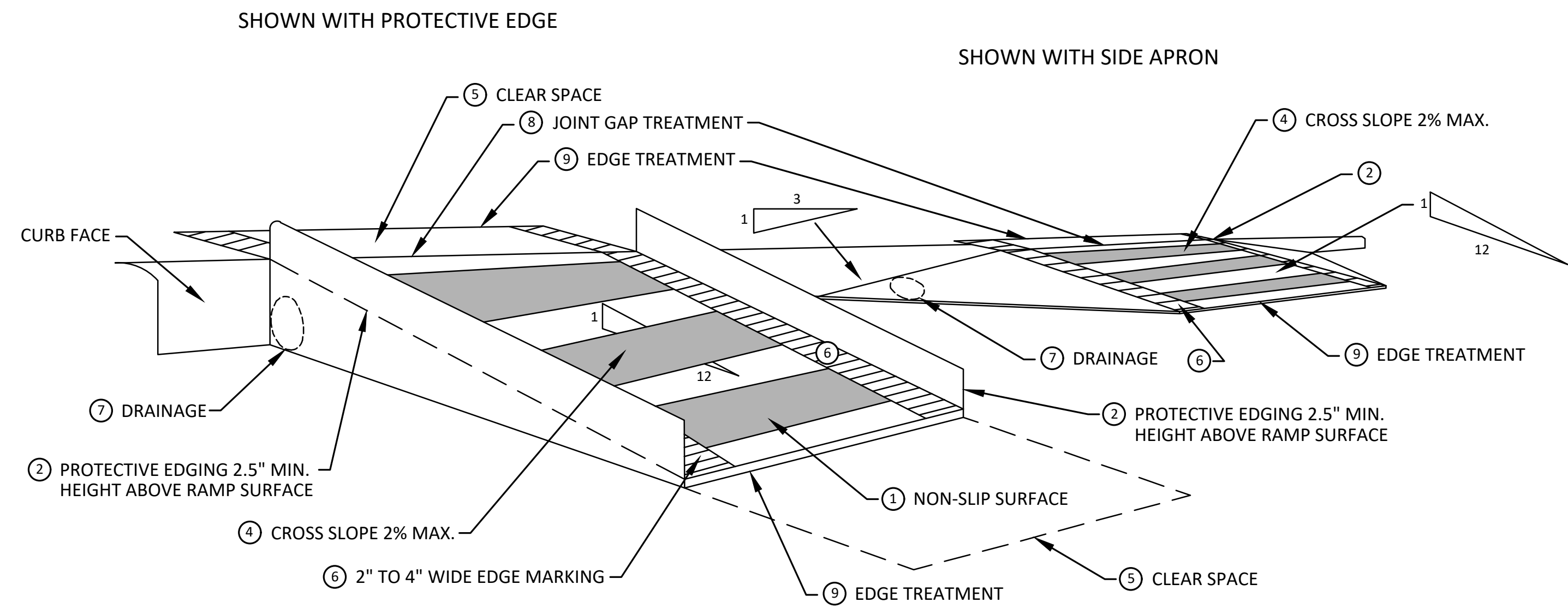
**TEMPORARY CURB RAMP
PARALLEL TO CURB**



EDGE TREATMENT

SPECIFIC NOTES

- 1 CURB RAMP SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMP OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 2 DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5" ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6" ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 3 CURB RAMP AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 4 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 5 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 6 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 7 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 8 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.

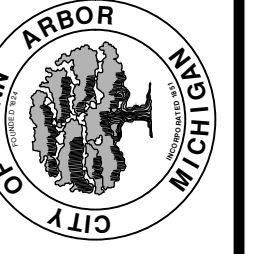


**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**



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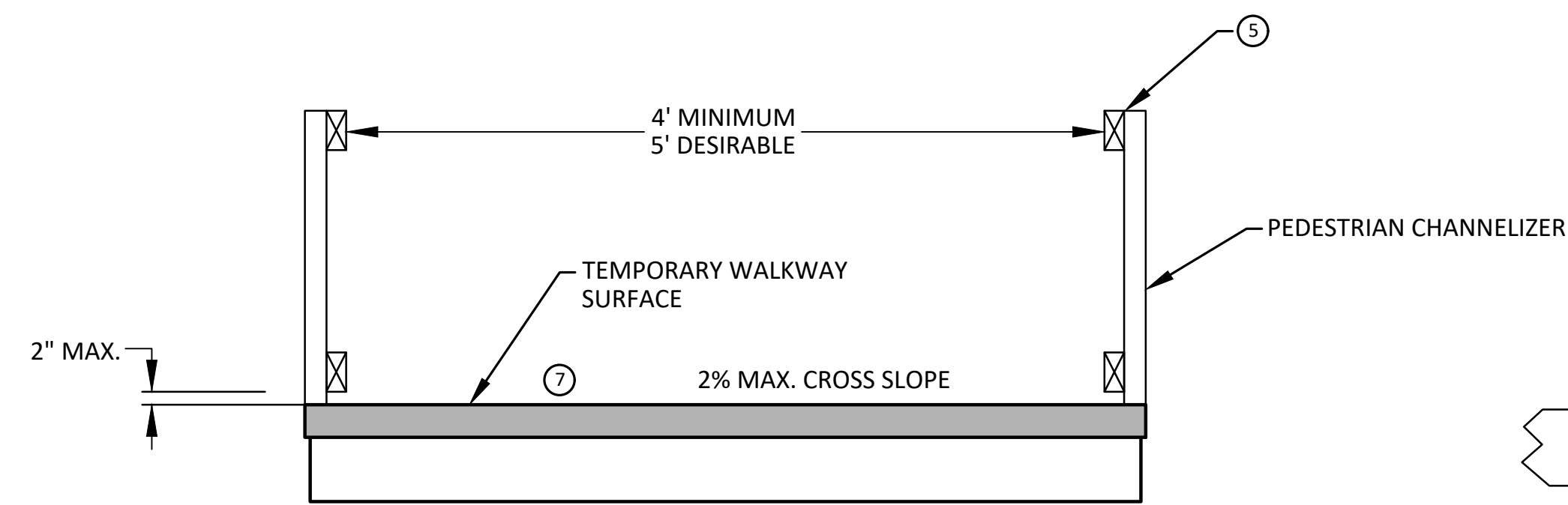
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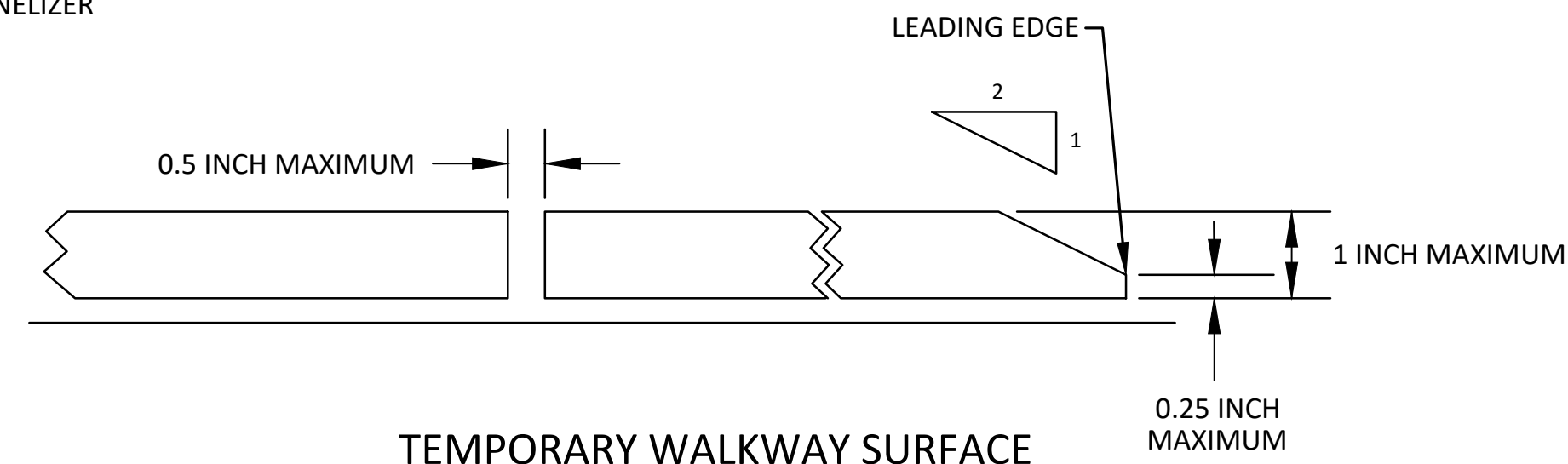
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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TPAR RAMPS

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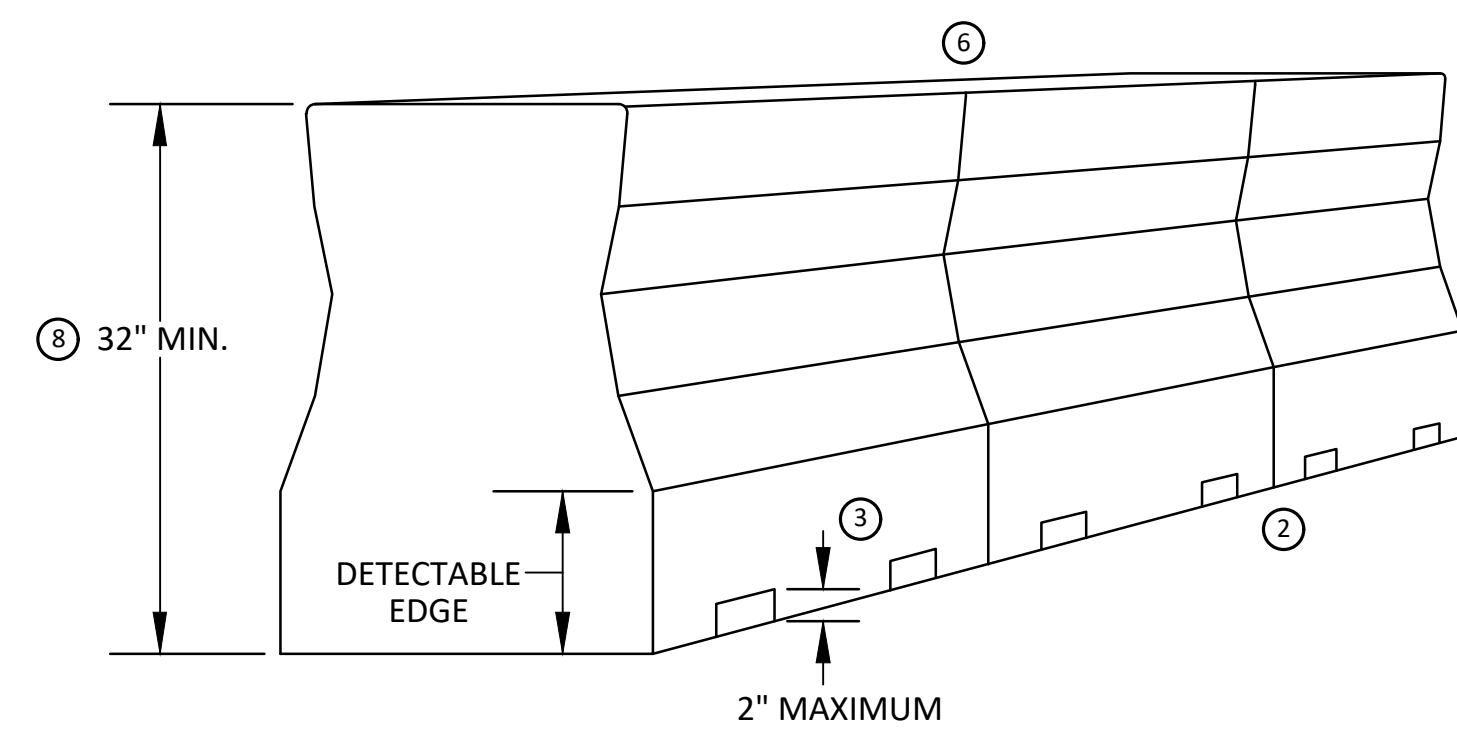
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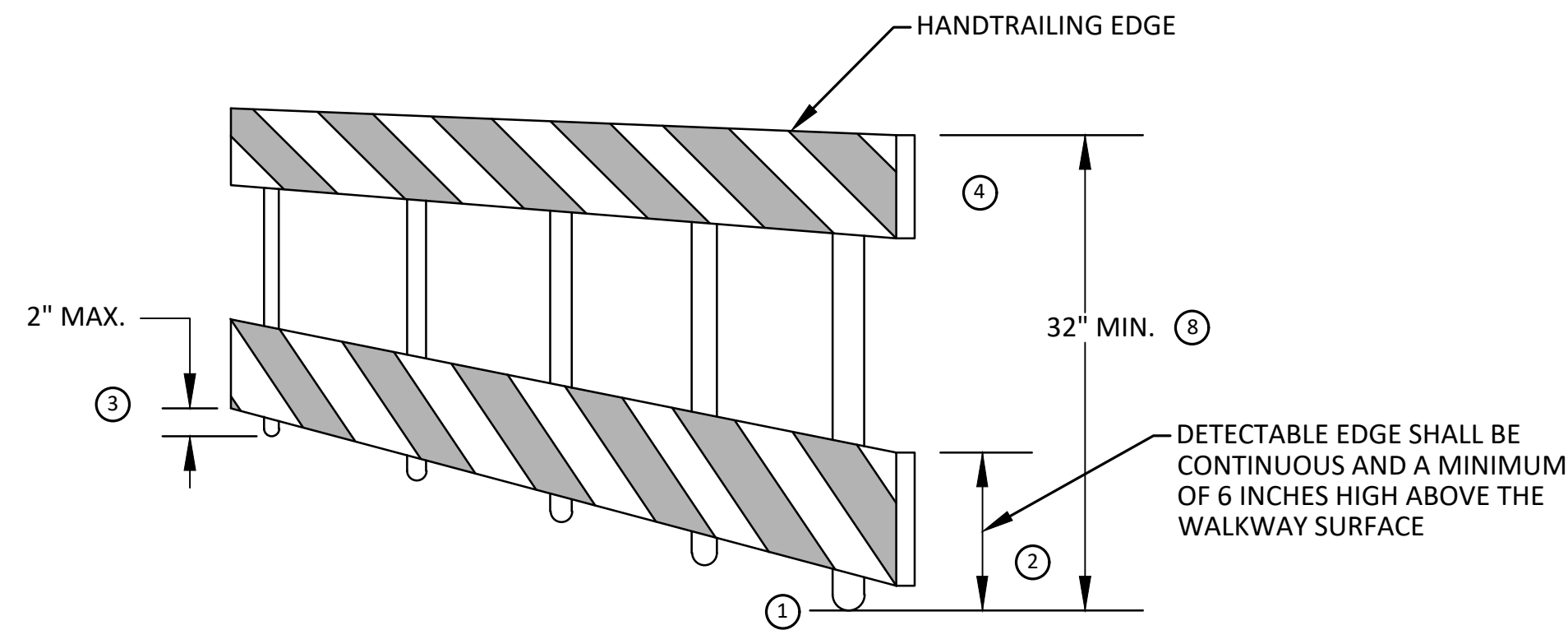
TEMPORARY PEDESTRIAN ACCESS



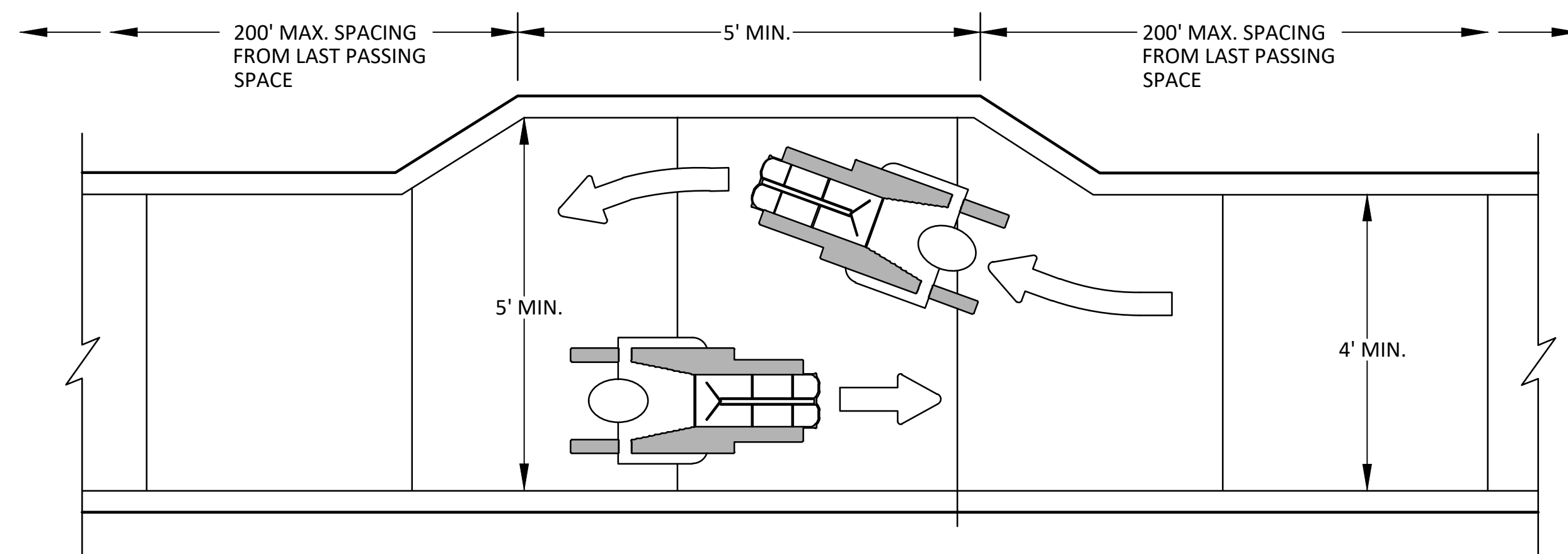
TEMPORARY WALKWAY SURFACE



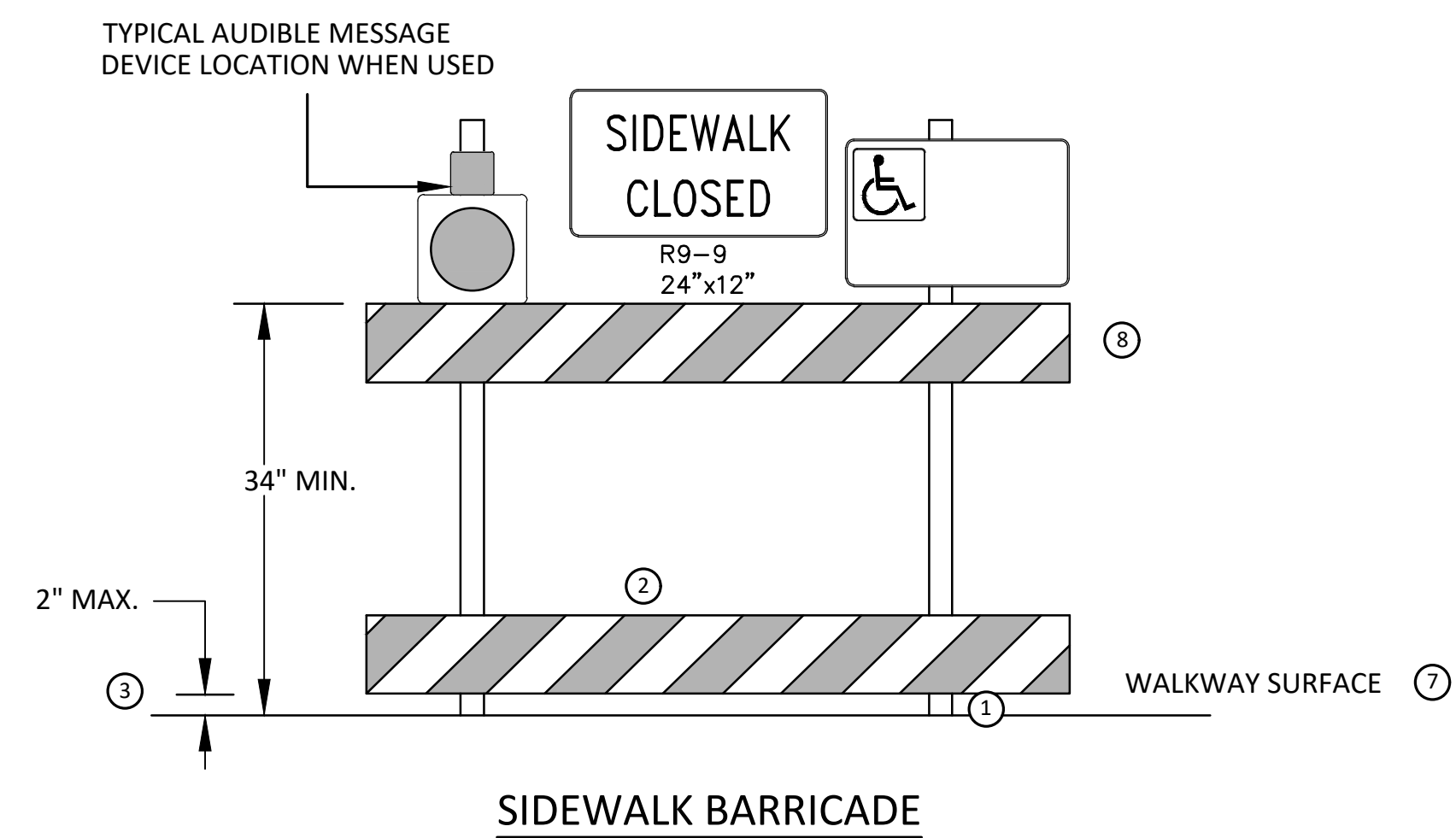
PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

GENERAL NOTES

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

- 1 ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- 2 DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- 3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- 4 PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.
- ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.
SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.
WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.
- 5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- 6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.
- 7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.
- 8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.



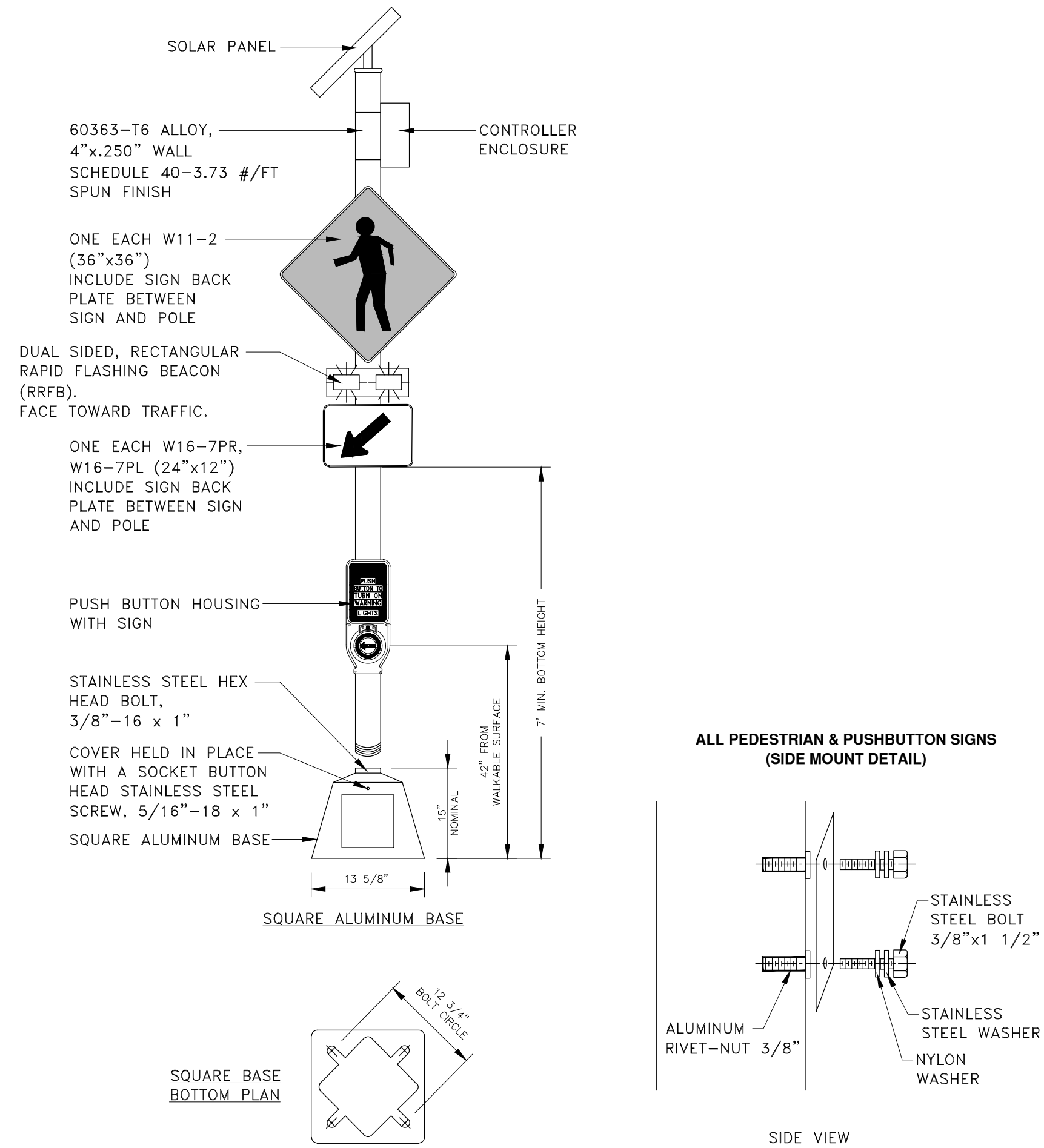
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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TPAR WALKWAY DEVICES

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RECTANGULAR RAPID FLASHING BEACON ASSEMBLY



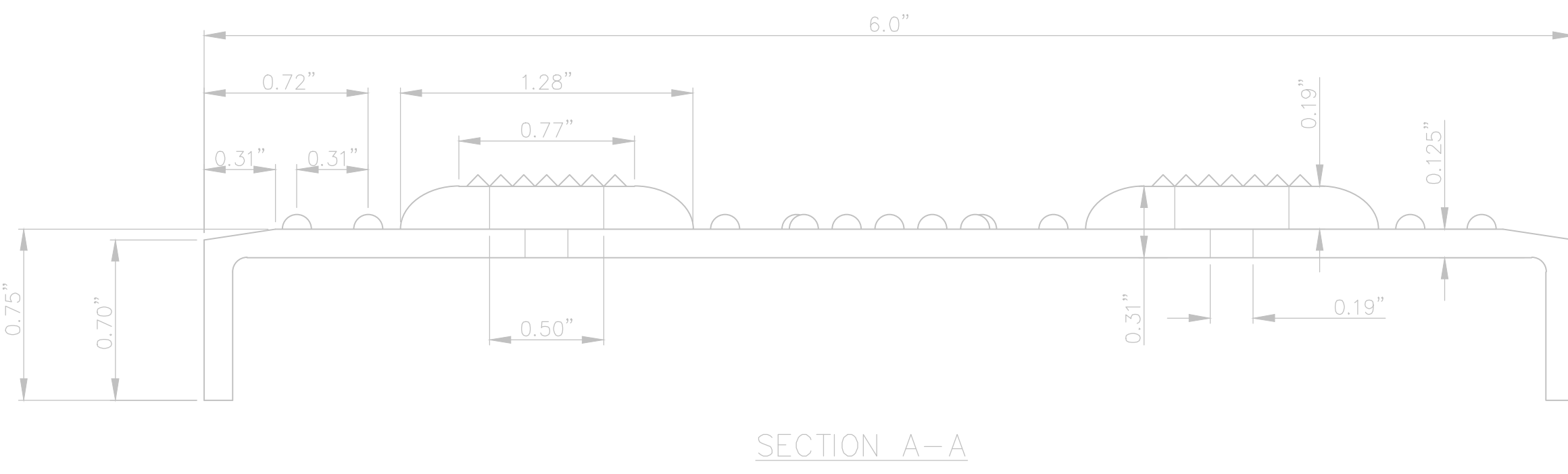
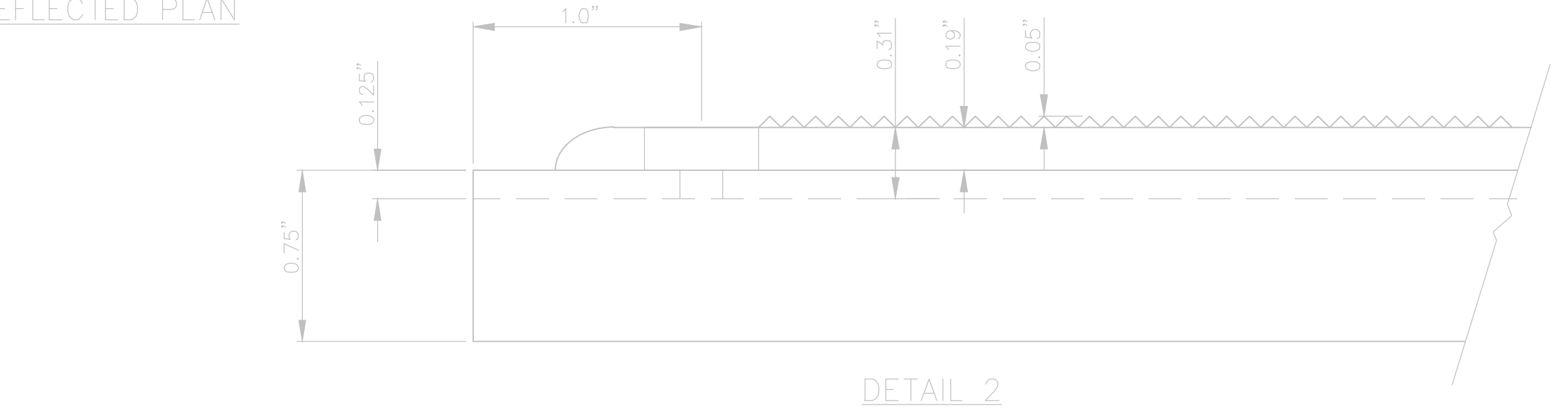
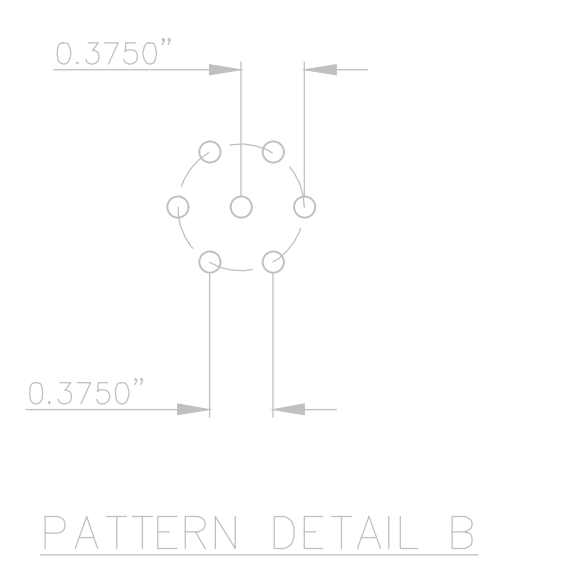
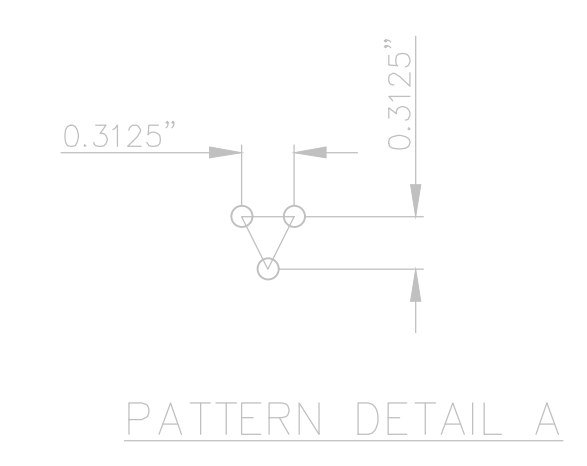
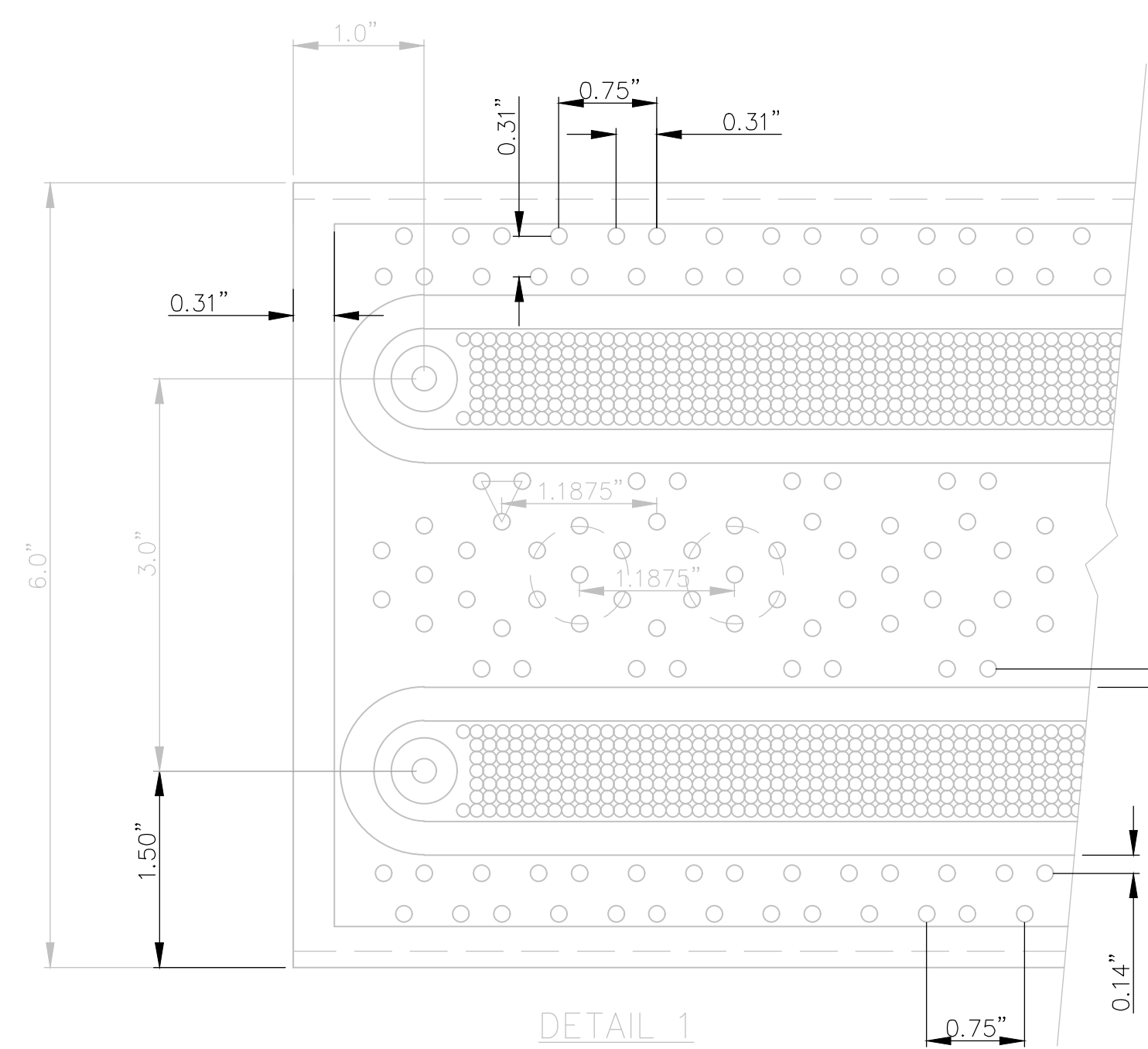
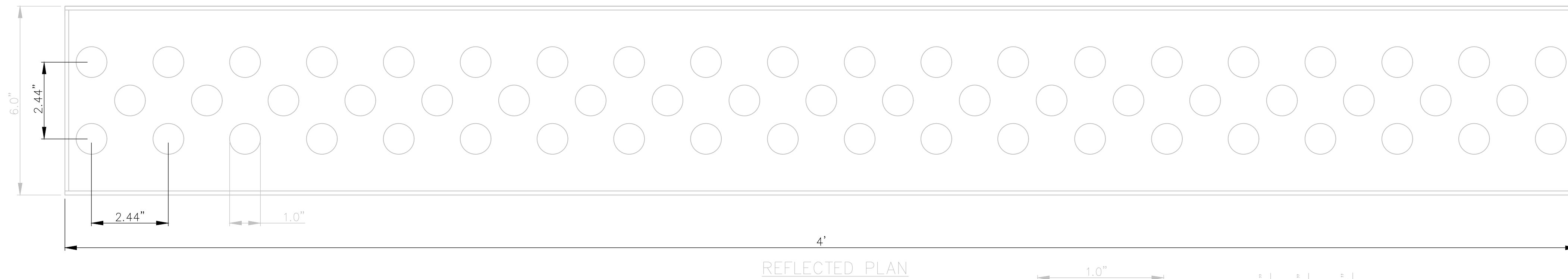
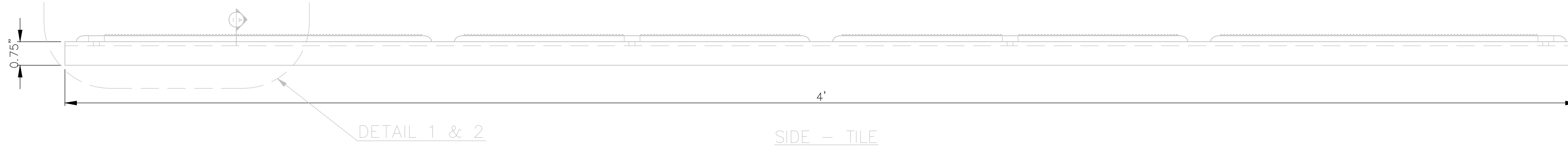
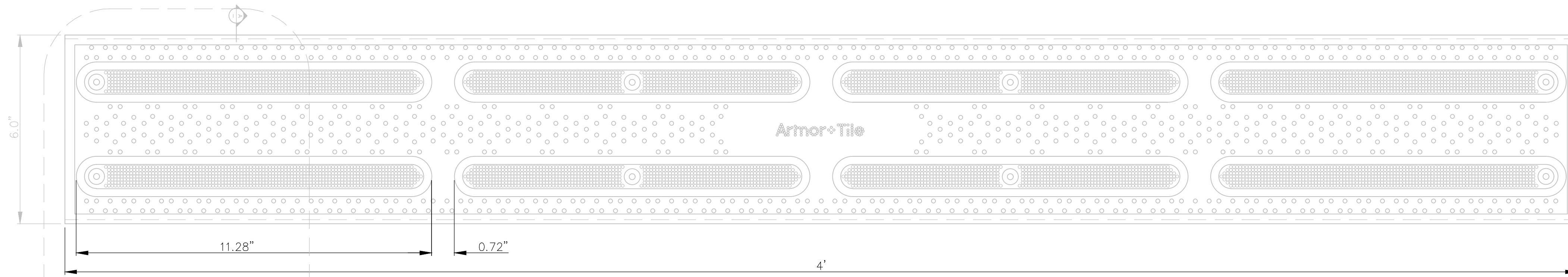
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RECTANGULAR RAPID FLASHING BEACON ASSEMBLY

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 U. S. PATENT NO. 5,303,669, 5,775,835,
 6,449,790, AND 6,895,622 BS
 C.D.N. PATENT NO. 2,032,532, 2,070,984
 US PATENTS PENDING.

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MATERIAL LIST

| # | DESCRIPTION | PART No: | QTY |
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| 1 | ARMOR-TILE | ADD-504 | 1 |
| 2 | EXPANSION ANCHOR | ADA-FAST | 8 |
| 3 | ARMOR-BOND | ADA-ADHE-EA | 1 |
| 4 | ARMOR-SEAL | ADA-SEAL-EA | 1 |

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| PROJECT MANAGER | |
| TRADE | PART No: |
| DETECTABLE WARNING SURFACE | ADA-D-448 |
| MATERIAL | |
| | VITRIFIED POLYMER COMPOSITE |

SUBJECT
Armor-Tile™ ADA
 SOUND AMPLIFYING DETECTABLE/TACTILE
 WARNING SURFACE TILE

PROJECT
Armor-Tile™
 DETECTABLE/TACTILE
 DIRECTIONAL TILE
 6" x 48" SURFACE APPLIED
 BAR TILE
 PLANS AND DETAILS

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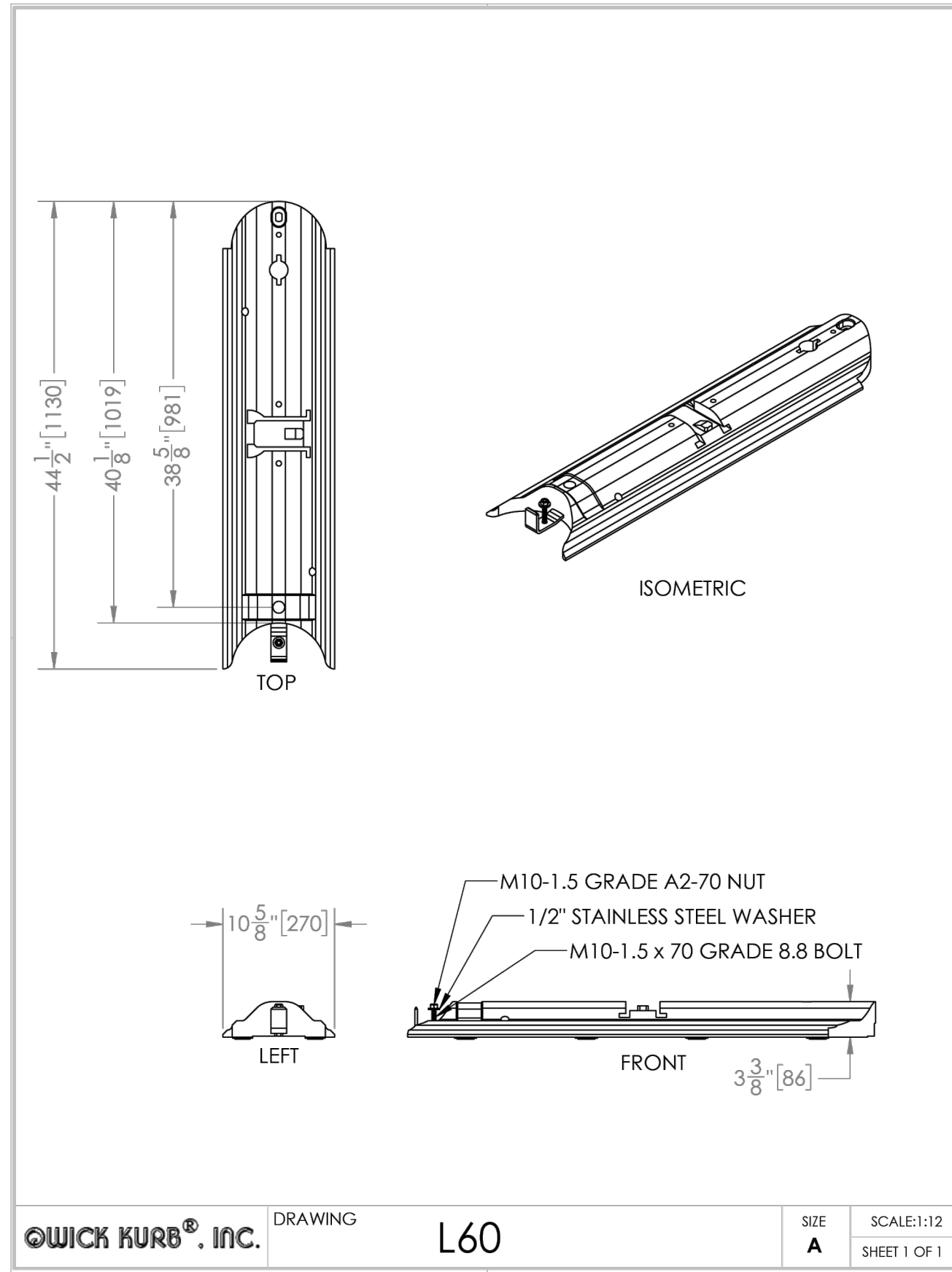
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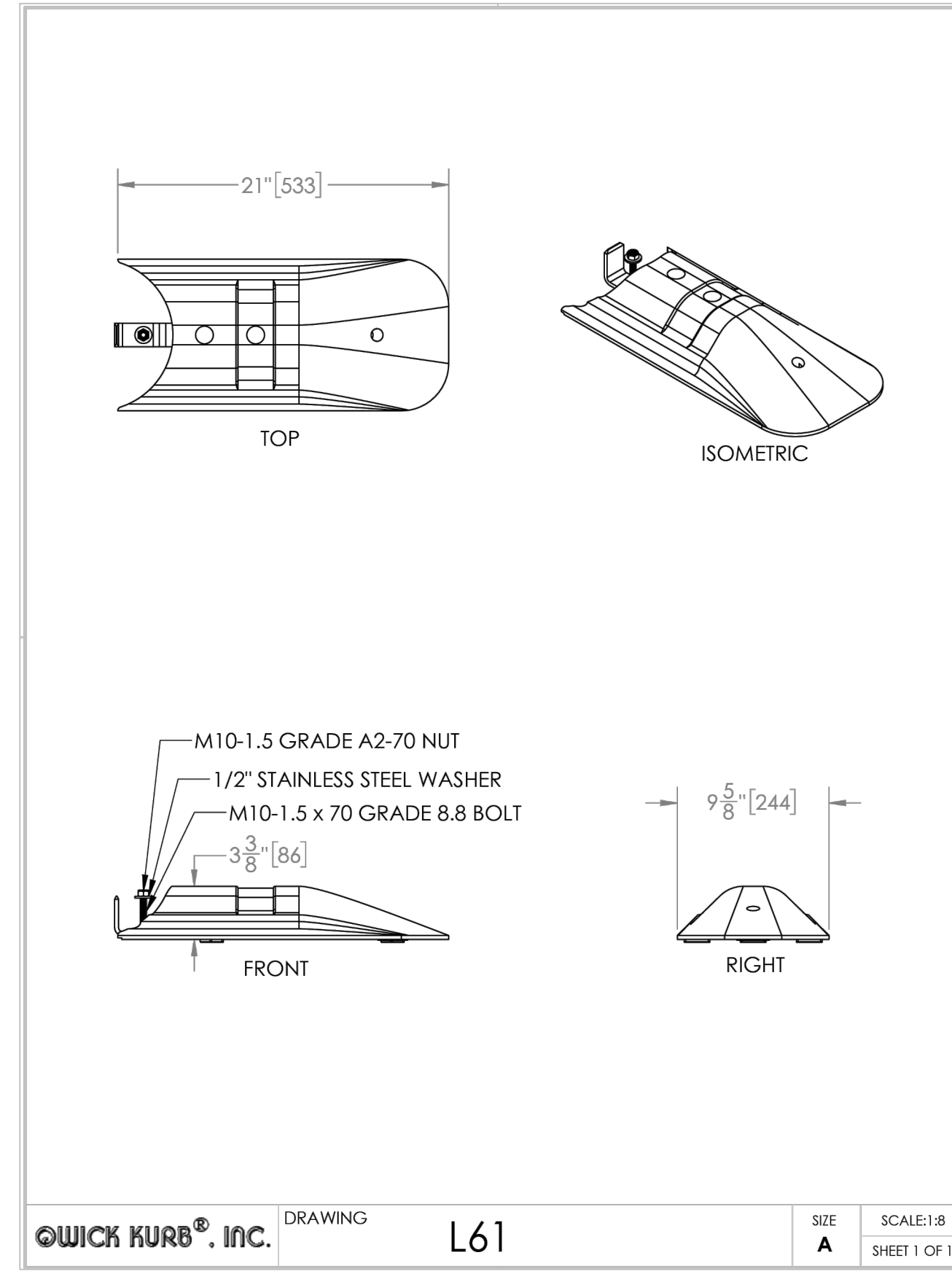
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 DETECTABLE TACTILE DIRECTIONAL TILE

SCALE PLAN: NTS
 DRAWING No: 2022034-9
 SHEET No.

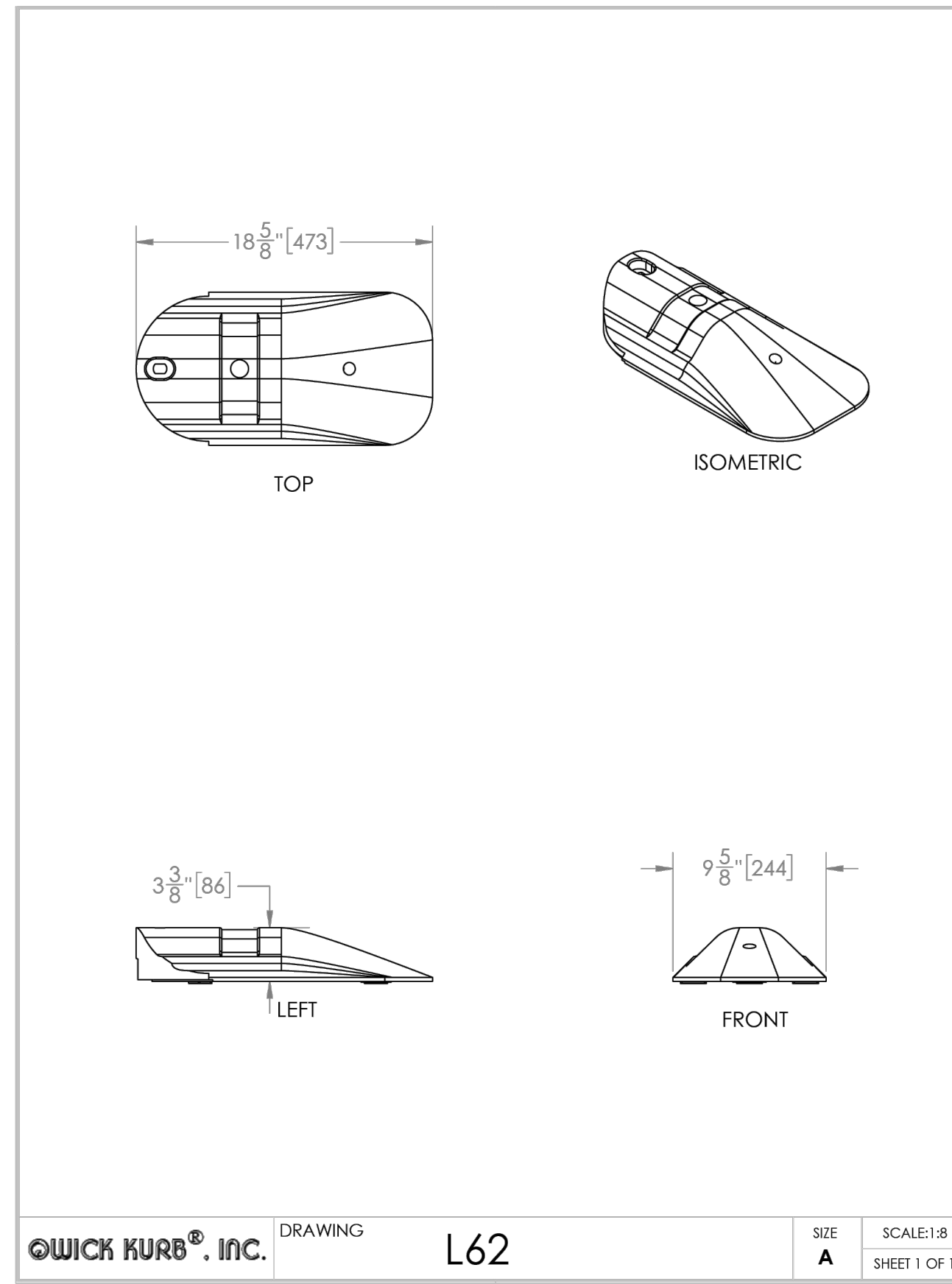
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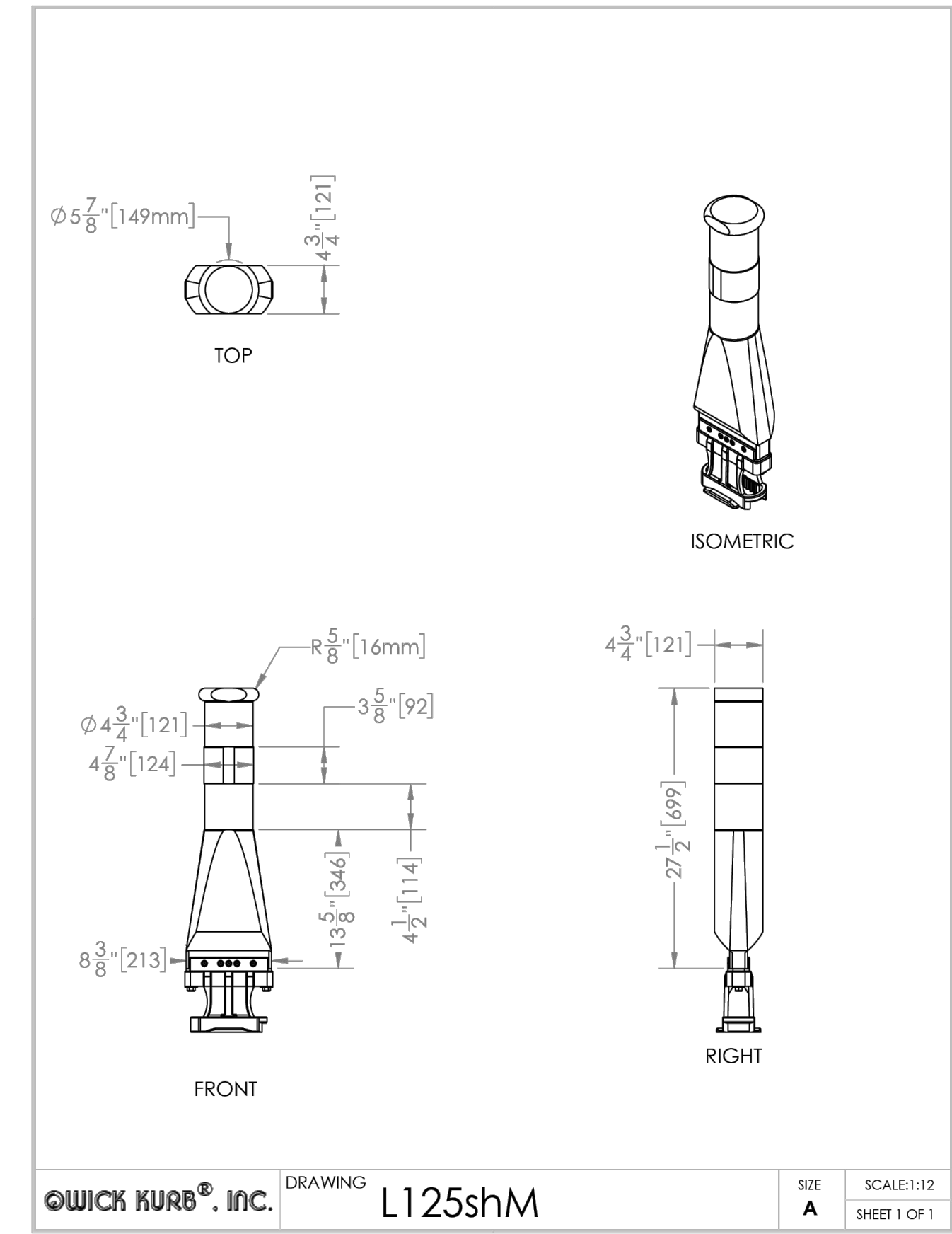
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QWICK KURB®. INC. DRAWING L61 SIZE A SCALE:1:8 SHEET 1 OF 1



QWICK KURB®. INC. DRAWING L62 SIZE A SCALE:1:8 SHEET 1 OF 1



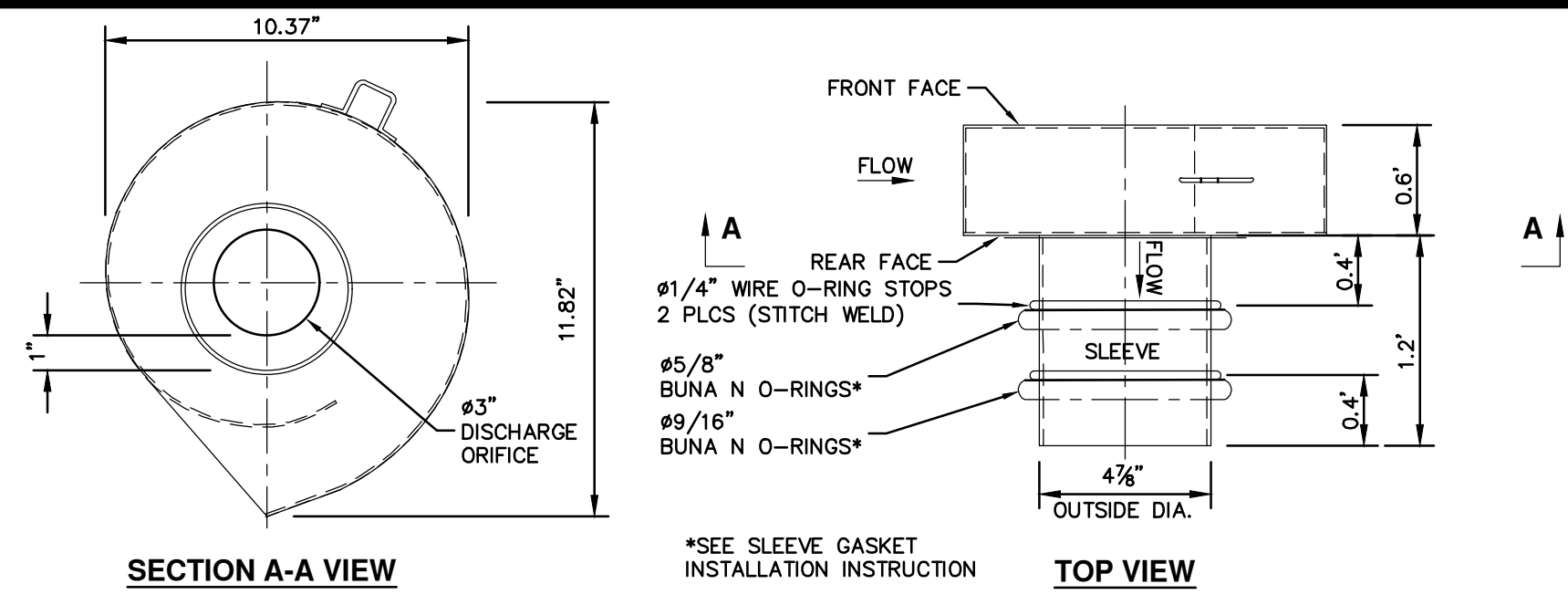
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| 4-9-24 | DATE | AD | CHECKED |
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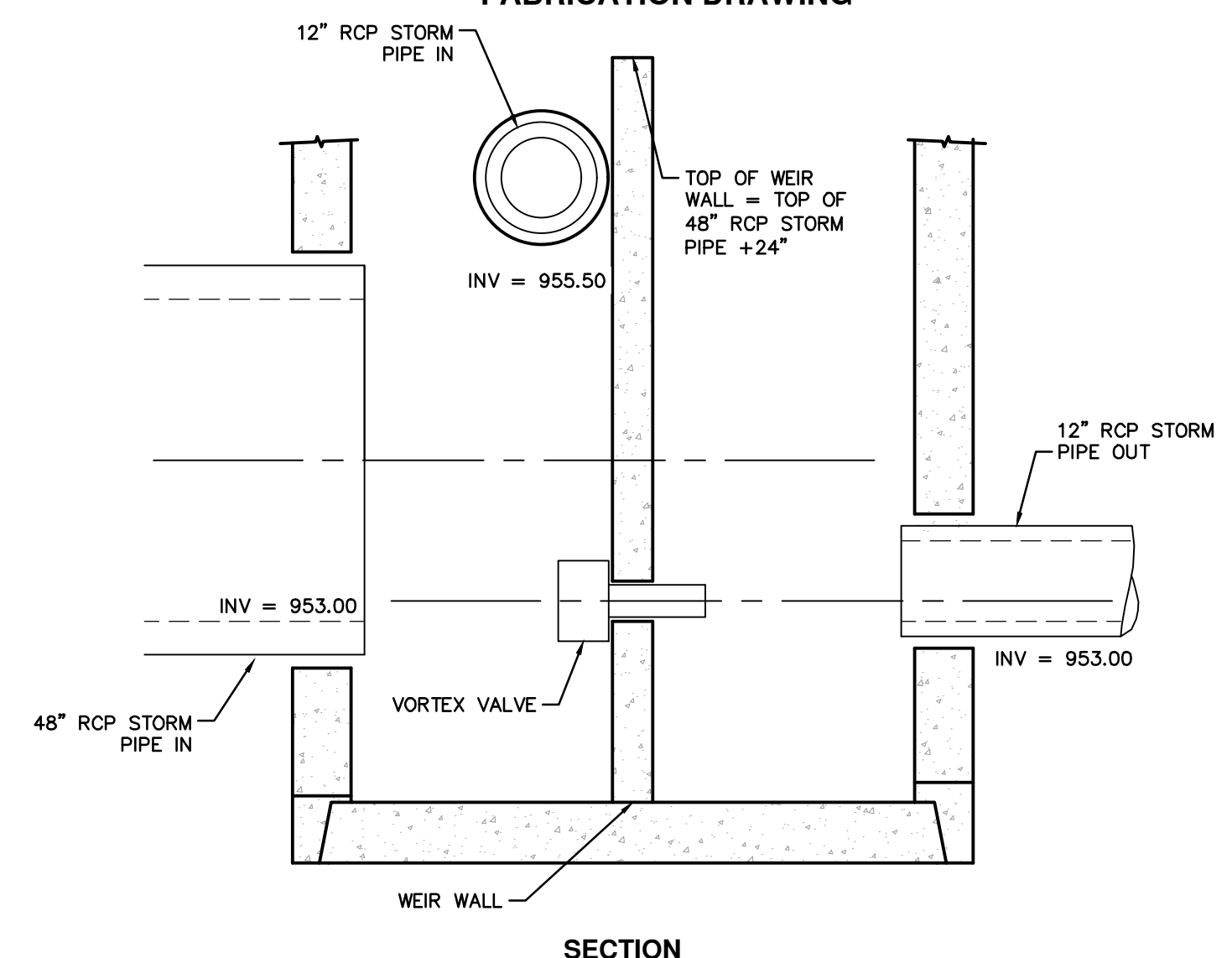
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QWICKKURB

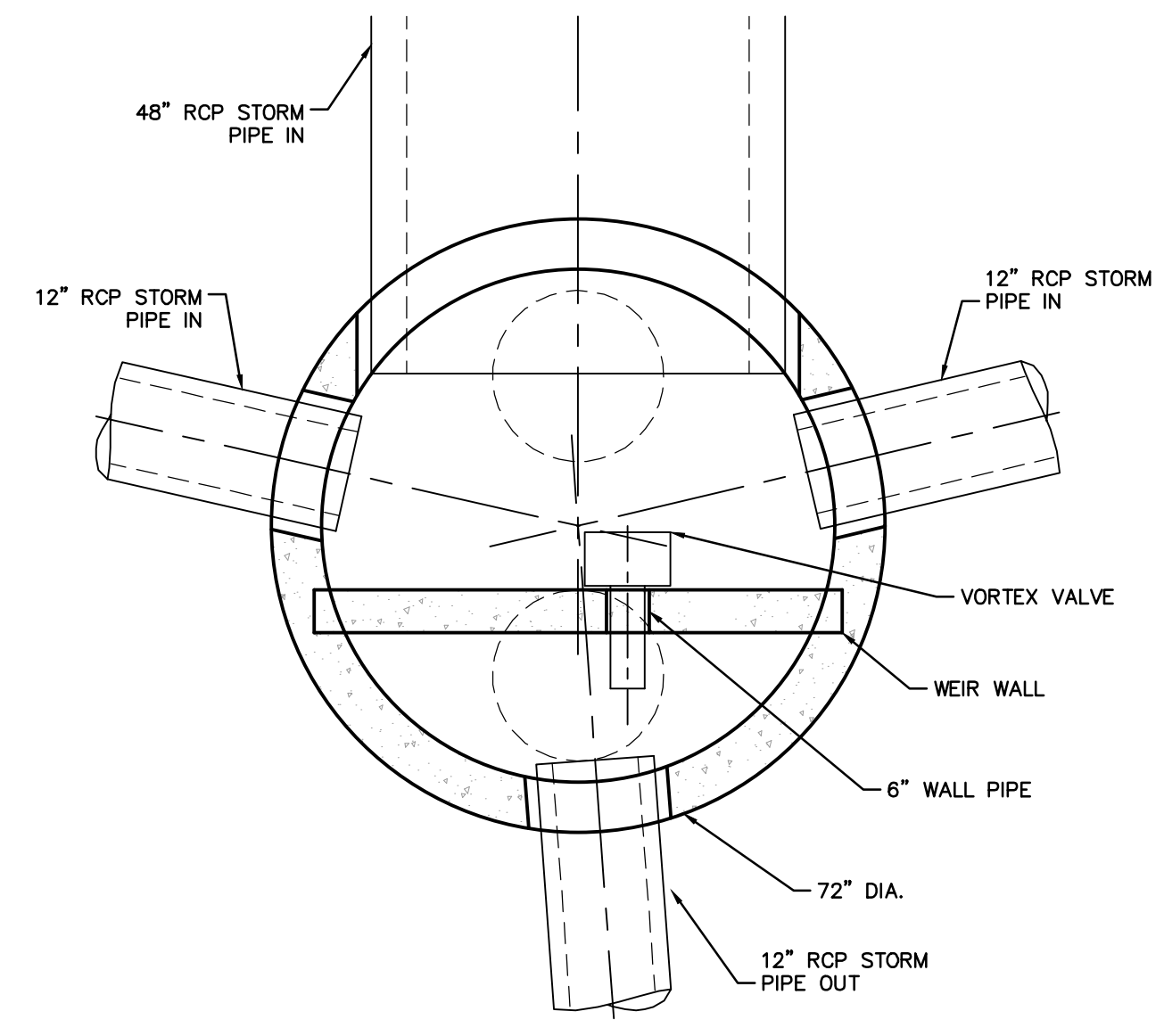


- NOTES:
- ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE.
 - MATERIALS:
 - 12 GA. 304L STAINLESS STEEL
 - (1) #5/8" AND (1) #9/16" BUNA N, 50 DUROMETER O-RINGS.
 - MANUFACTURE HOUSING AND BYPASS DOOR AND ASSEMBLE PER DRAWING "2 mm FLUIDIC-AMP FABRICATION DETAILS FA1012-FA2023 HOUSING AND INLET"
 - DISCHARGE ORIFICE LOCATED REAR FACE. #4" BYPASS OPENING LOCATED FRONT FACE.
 - INCLUDES 20' BYPASS DOOR PULL CABLE.

FLUIDIC-AMP VORTEX VALVE MODEL FA1012 WITH SLEEVE ATTACHMENT FOR Ø6" OPENING FABRICATION DRAWING



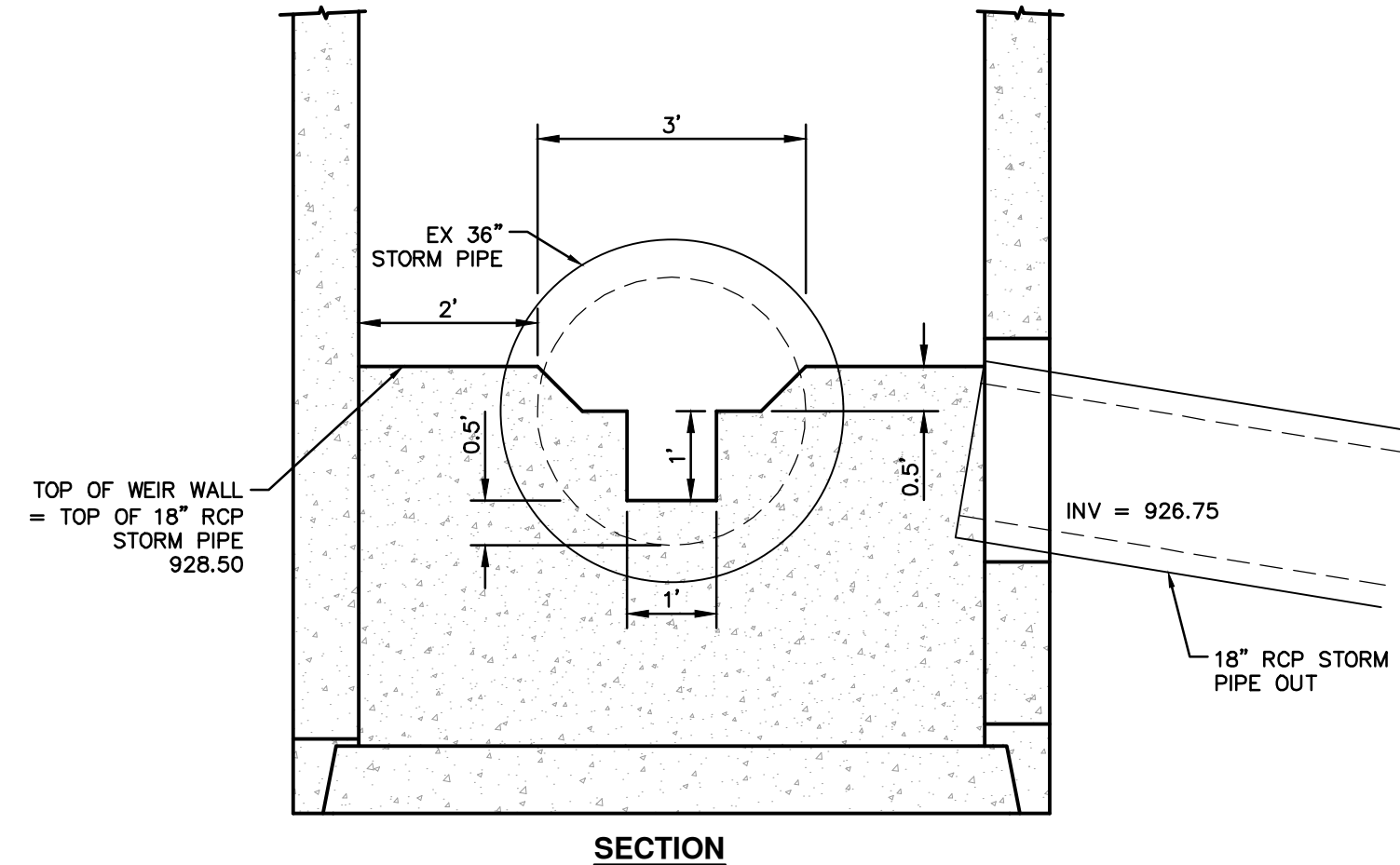
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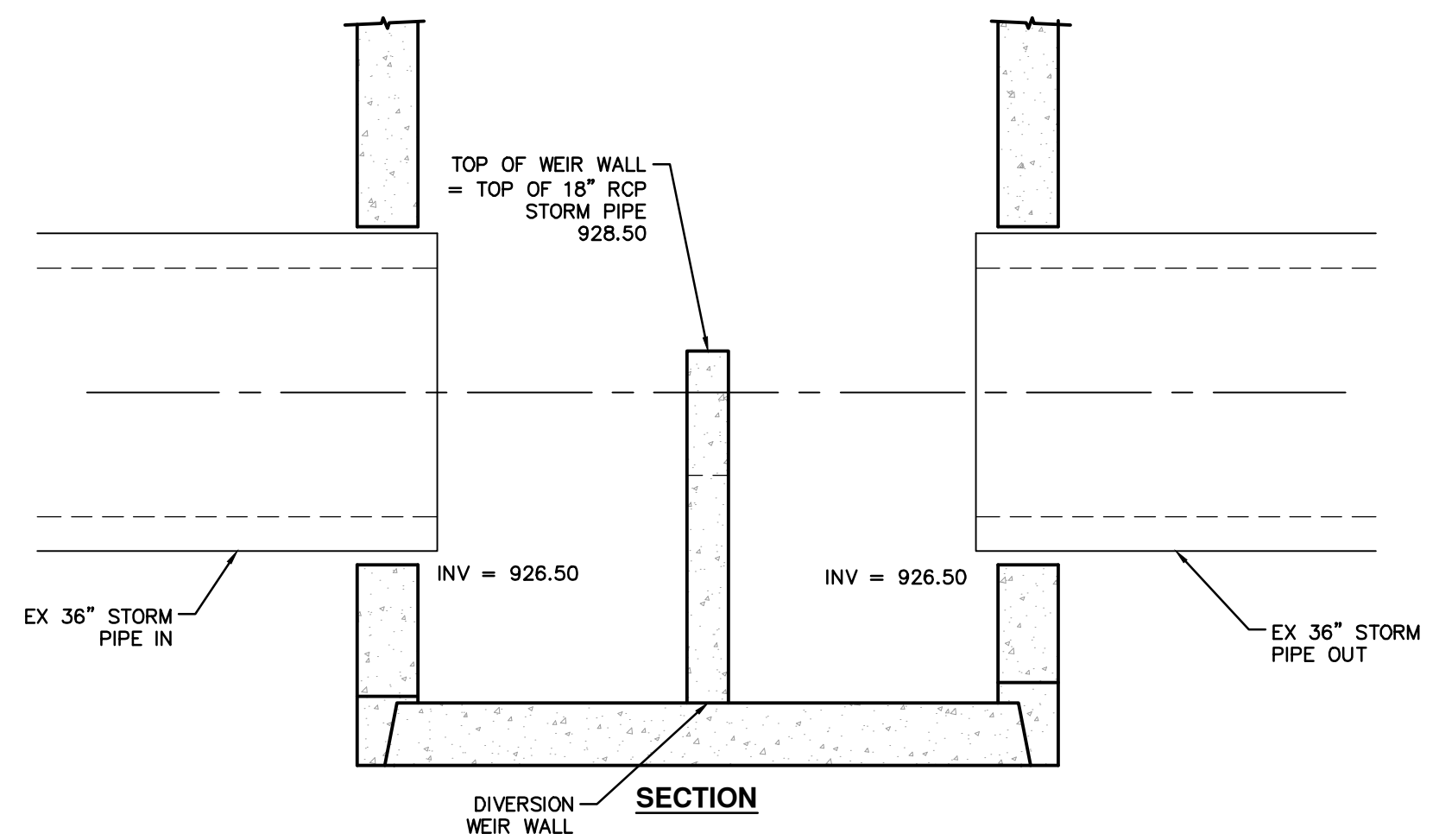
PLAN

R401 UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE

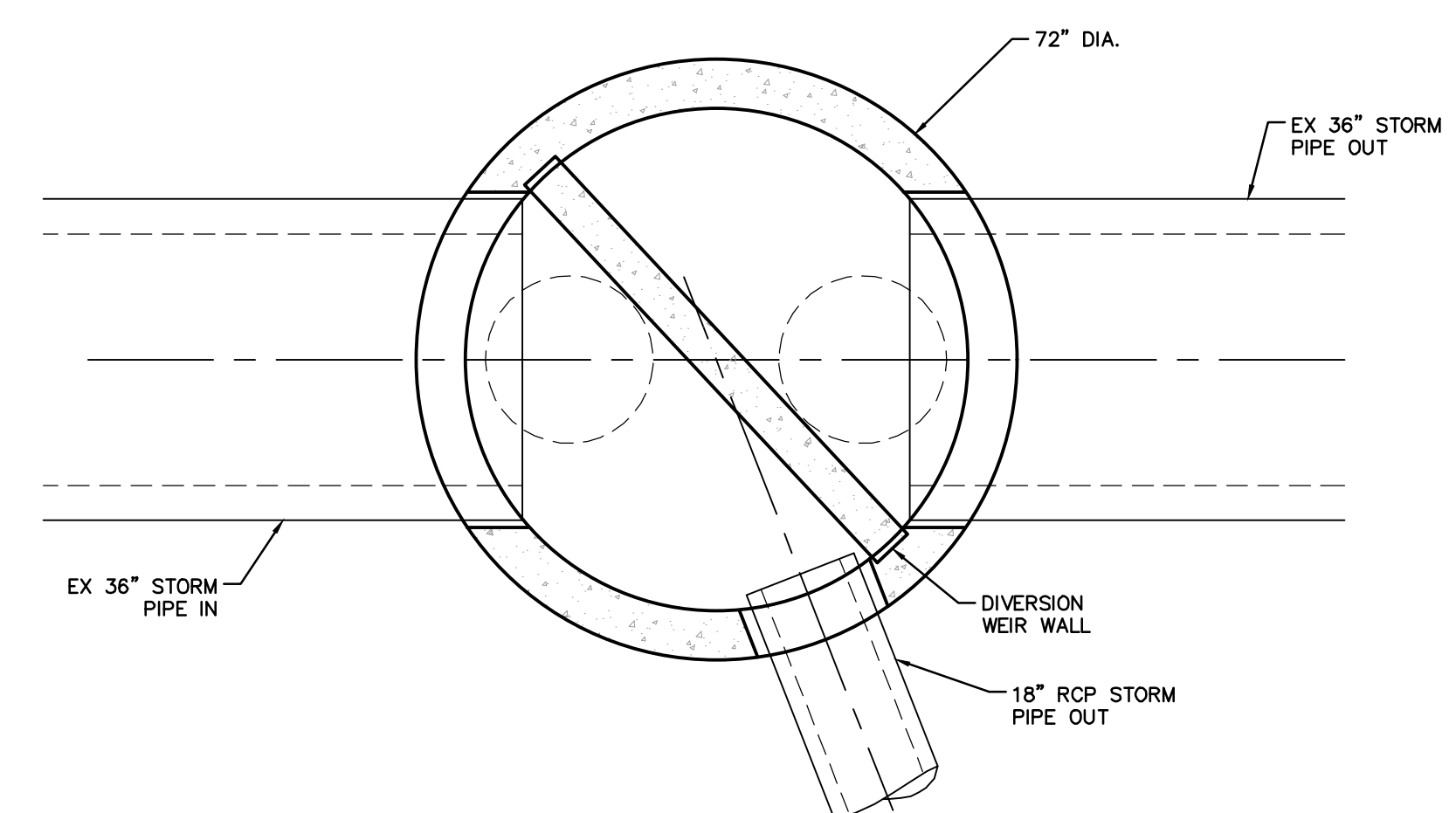
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SECTION



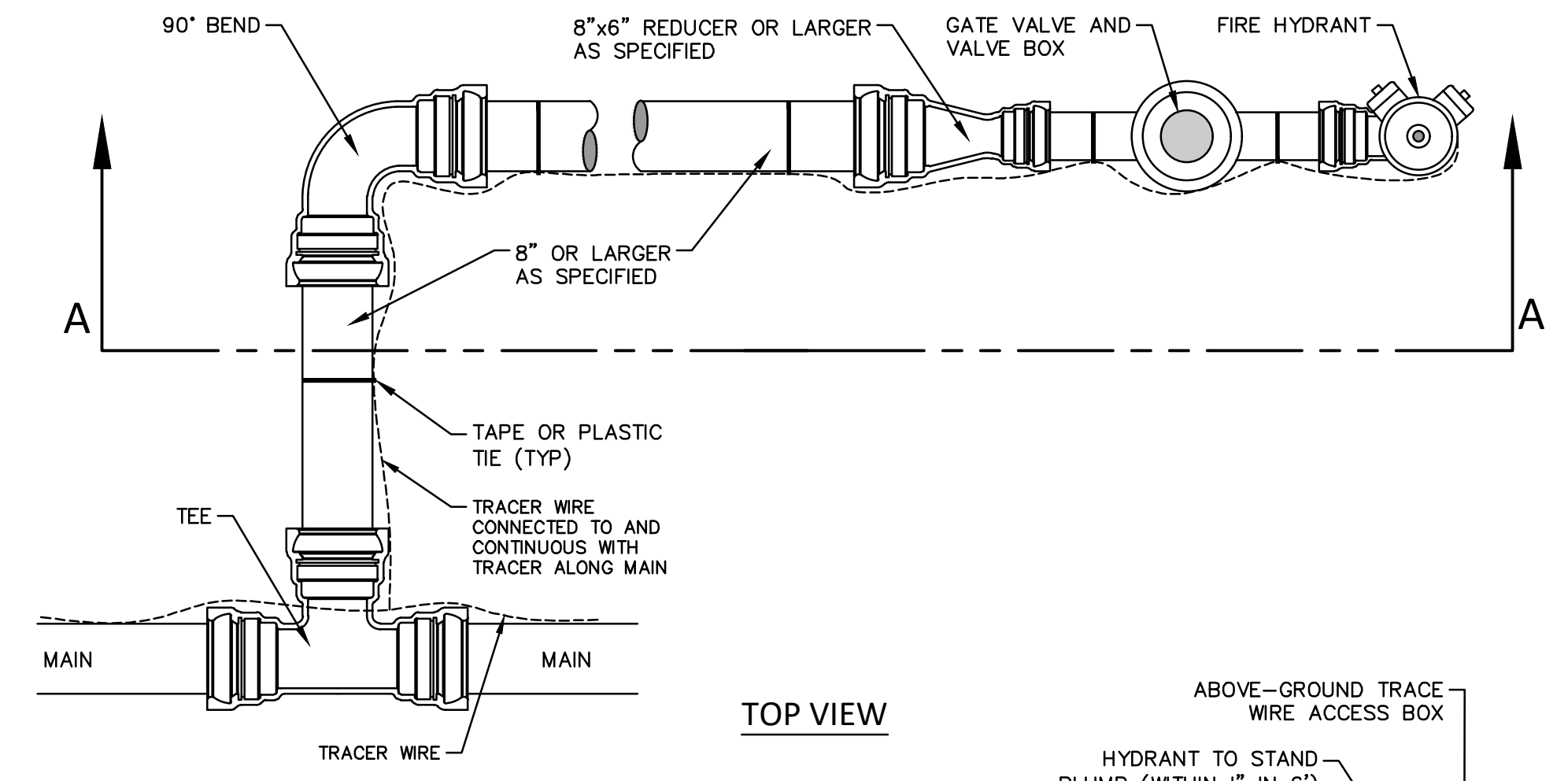
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PLAN

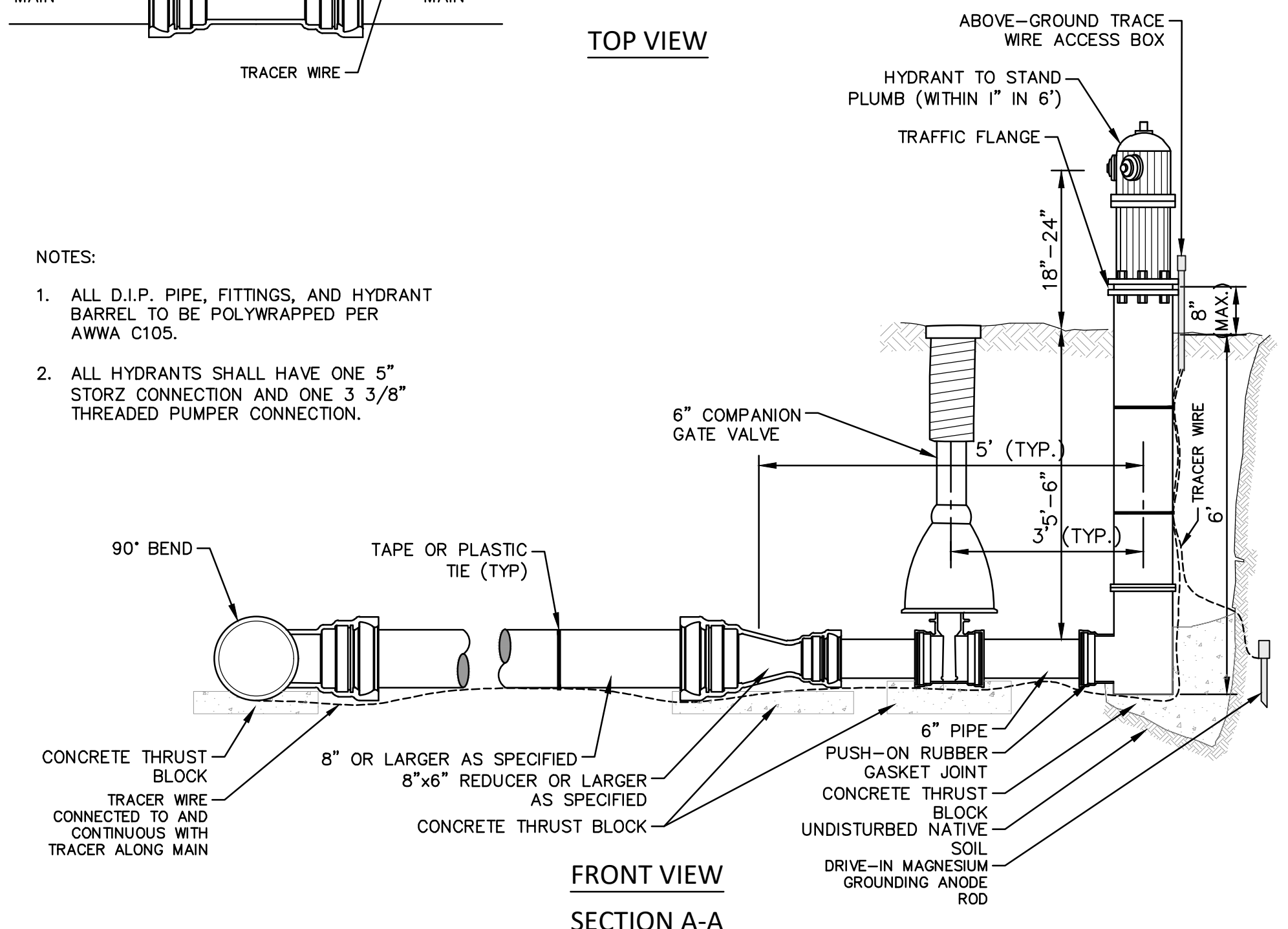
R301 & R317 UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE

NOT TO SCALE



TOP VIEW

- NOTES:
- ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.
 - ALL HYDRANTS SHALL HAVE ONE 5" STORZ CONNECTION AND ONE 3 3/8" THREADED PUMPER CONNECTION.



FRONT VIEW SECTION A-A

MISC. DETAILS - SPECIAL DETAIL



| NO | REV | DATE | DESCRIPTION |
|----|---------|--------|-------------|
| 00 | BID SET | 4-9-24 | |
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MILLER AVENUE REHABILITATION
MISC. DETAILS

SCALE: NTS
DRAWING No. 2022034-11
SHEET No.

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PROJECT SUMMARY

- DESIGN PARAMETERS**
- PRE-TREATMENT METHOD = Hydrodynamic Separator
 - STORAGE VOLUME REQUIRED = 6712ft³
 - INVERT DEPTH = 6ft
 - MANIFOLD DIAMETER = 18in.
 - SPACING BETWEEN CHAMBERS = 5.6in.
 - SIDE PERIMETER STONE WIDTH = 12in.
 - END PERIMETER STONE WIDTH = 12in.
 - TOP PERIMETER STONE WIDTH = 6in.
 - BOTTOM PERIMETER STONE WIDTH = 6in.
 - STONE POROSITY = 40%
- SYSTEM DETAILS**
- TOTAL ELBOW MANIFOLDS = 1
 - TOTAL TEE MANIFOLDS = 7
 - TOTAL START CHAMBERS = 8
 - TOTAL MID CHAMBERS = 64
 - TOTAL END CHAMBERS = 8
 - TOTAL NUMBER OF CHAMBERS = 80
 - NUMBER OF ROWS = 8
 - CHAMBERS PER ROW = 10
 - CHAMBER STORAGE VOLUME = 3792ft³
 - MANIFOLD STORAGE VOLUME = 111.4ft³
 - BACKFILL STORAGE VOLUME = 2809.28ft³
 - TOTAL STORAGE PROVIDED = 6712.68ft³
- SYSTEM DIMENSIONS AND OTHER MATERIALS**
- RECTANGULAR FOOTPRINT = 78'-4" x 39'-6"
 - TOTAL EXCAVATION = 746.23y³
 - STONE BACKFILL = 260.12y³
 - REMAINING BACKFILL TO PAVEMENT = 341.55y³
 - WOVEN GEOTEXTILE QTY = 0y²
 - NON-WOVEN GEOTEXTILE QTY = 344.42y²
 - SCOUR PROTECTION FITTING = 39.53x7.5ft
 - APPROXIMATE TRUCKLOADS = 1

GENERAL NOTES

1. ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
2. PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
3. CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
4. CHAMBERMAXX SYSTEM TO MEET AASHTO HS20/HS25 LIVE LOADING, PER AASHTO LRFD SECTION 12.
5. ACCESS COVERS TO MEET AASHTO HS20/HS25 LIVE LOADING.
6. MINIMUM COVER IS 18-INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 96-INCHES CONTACT YOUR LOCAL REPRESENTATIVE.
7. ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
8. FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
9. CHAMBERMAXX BY CONTECH ENGINEERED SOLUTIONS (800) 925-5240

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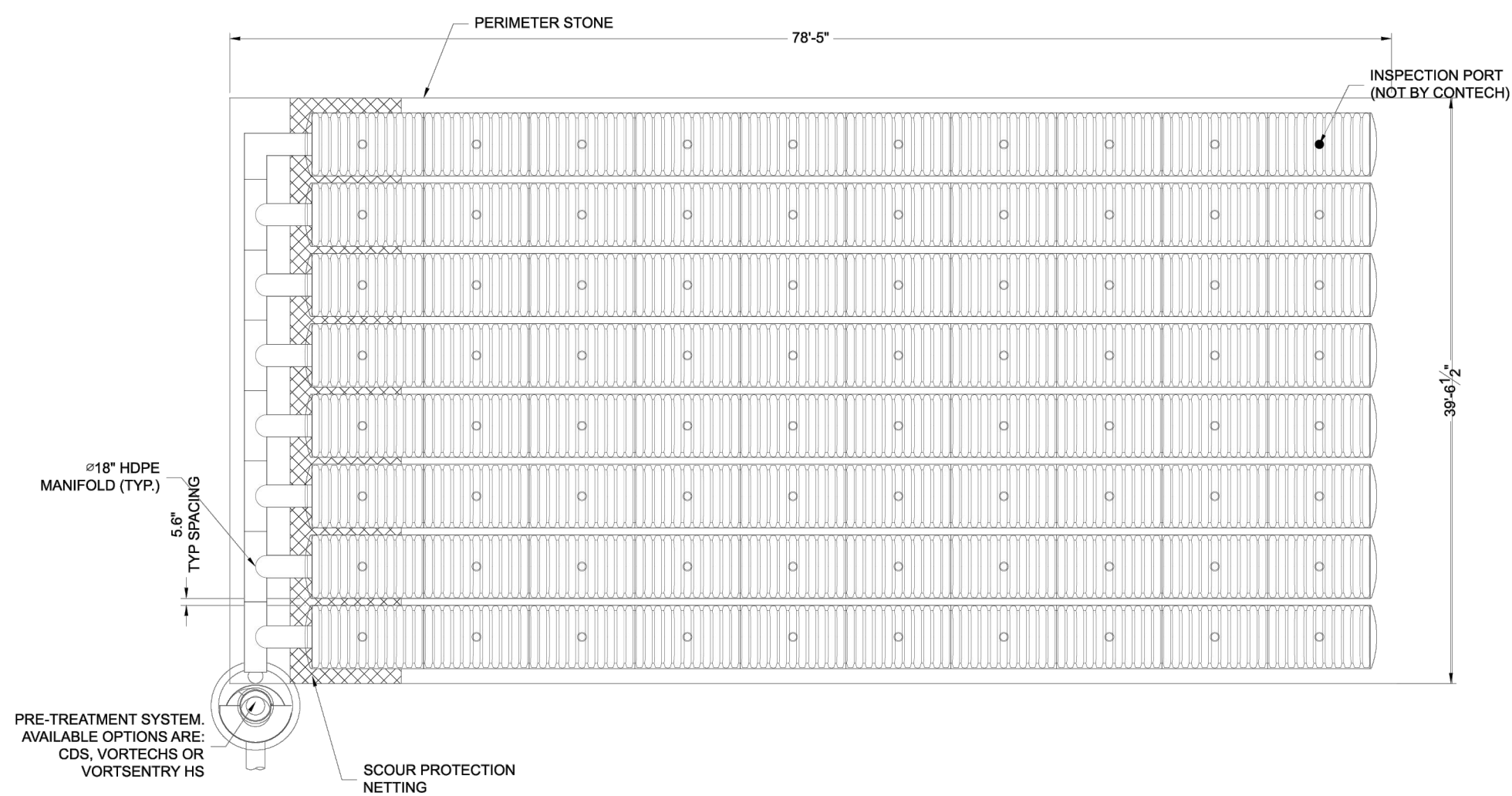
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CHAMBERMaxx[®]
INVERT FEEDING
CONTECH
DYODS
DRAWING

ASSEMBLY
SCALE: 1"=10'
DYO47180 Miller Ave
West Park
Ann Arbor, MI
CHAMBERMAXX

| PROJECT No. | REQ. No. | DATE |
|---------------|---------------|------------|
| 32607 | 47180 | 03/05/2024 |
| DESIGNED: DYO | DRAWN: DYO | |
| CHECKED: DYO | APPROVED: DYO | |
| SHEET No. | D1 | OF D4 |



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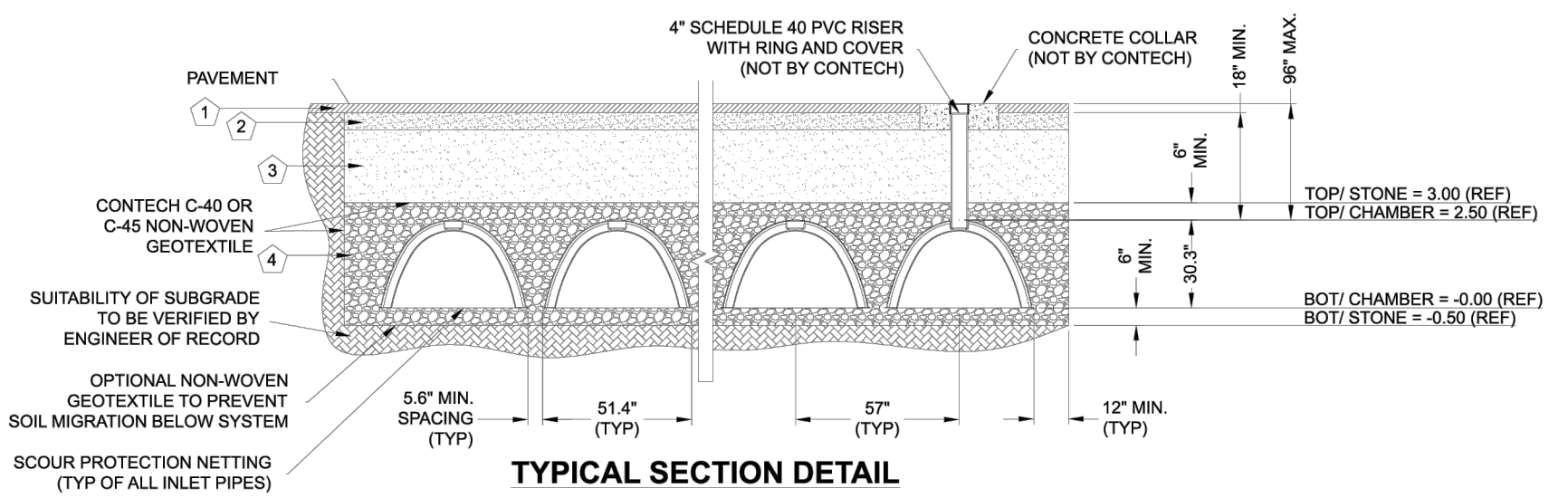


CITY OF ANN ARBOR - ENGINEERING
MILLER AVENUE REHABILITATION
CONTECH CHAMBERMAXX

SCALE PLAN: 1" = 5'
DRAWING No. 2022034-12

INSTALLATION NOTES

1. CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
2. PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
3. THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
4. COVER ANY OPEN VOID SPACES GREATER THAN 3/4" ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
5. STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH TO 9-INCH LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
6. REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
7. IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
8. GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.



KEY:

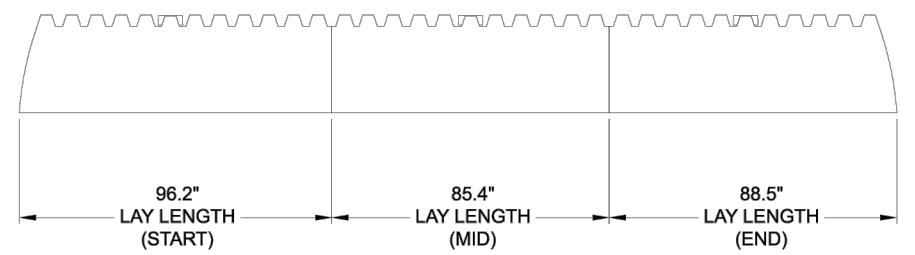
1. FLEXIBLE PAVEMENT.
2. GRANULAR ROAD BASE.
3. ANY SUITABLE NATIVE OR GENERAL BACKFILL. SEE ENGINEER PLANS.
4. THE BACKFILL MATERIAL SHALL BE FREE-DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE. MATERIAL SHALL BE PLACED IN 8"-10" MAXIMUM LIFTS. MATERIAL SHALL BE WORKED INTO THE CHAMBER SPACING BY MEANS OF SHOVEL-SLICING, RODDING, AIR-TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS. COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE PROJECT ENGINEER OR THEIR REPRESENTATIVE IS SATISFIED WITH THE LEVEL OF COMPACTION. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-LIFT DIFFERENTIAL BETWEEN THE SIDES OF ANY CHAMBER IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.

EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE CHAMBERS. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT, AND MAINTAIN BALANCED LOADING ON ALL CHAMBERS IN THE SYSTEM, DURING ALL SUCH OPERATIONS.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. CONTACT YOUR LOCAL CONTECH REPRESENTATIVE FOR DETAILS.

| CHAMBERMAXX DESIGN DETAILS | | | |
|--|---------------|----------------|-------------|
| FEATURE | START CHAMBER | MIDDLE CHAMBER | END CHAMBER |
| OVERALL CHAMBER HEIGHT - IN | 30.3 | 30.3 | 30.3 |
| OVERALL CHAMBER WIDTH - IN | 51.4 | 51.4 | 51.4 |
| ACTUAL LENGTH - IN | 96.4 | 91.0 | 92.0 |
| INSTALLED LAY LENGTHS - IN | 96.2 | 85.4 | 88.5 |
| CHAMBER STORAGE VOLUME - CF | 50.2 | 47.2 | 46.2 |
| CHAMBER STORAGE PER LINEAR FOOT - CF/LF | 6.3 | 6.6 | 6.3 |
| *MIN. INSTALLED CHAMBER VOLUME - CF | 78.1 | 75.1 | 74.1 |
| *MIN. INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF | 9.7 | 10.6 | 10.0 |
| CHAMBER WEIGHT - LB | 83 | 73 | 76 |

*6" OF STONE ABOVE AND BELOW CHAMBER, 5.6" CHAMBER SPACING AND 40% POROSITY



TYPICAL ELEVATION VIEW
NOT TO SCALE

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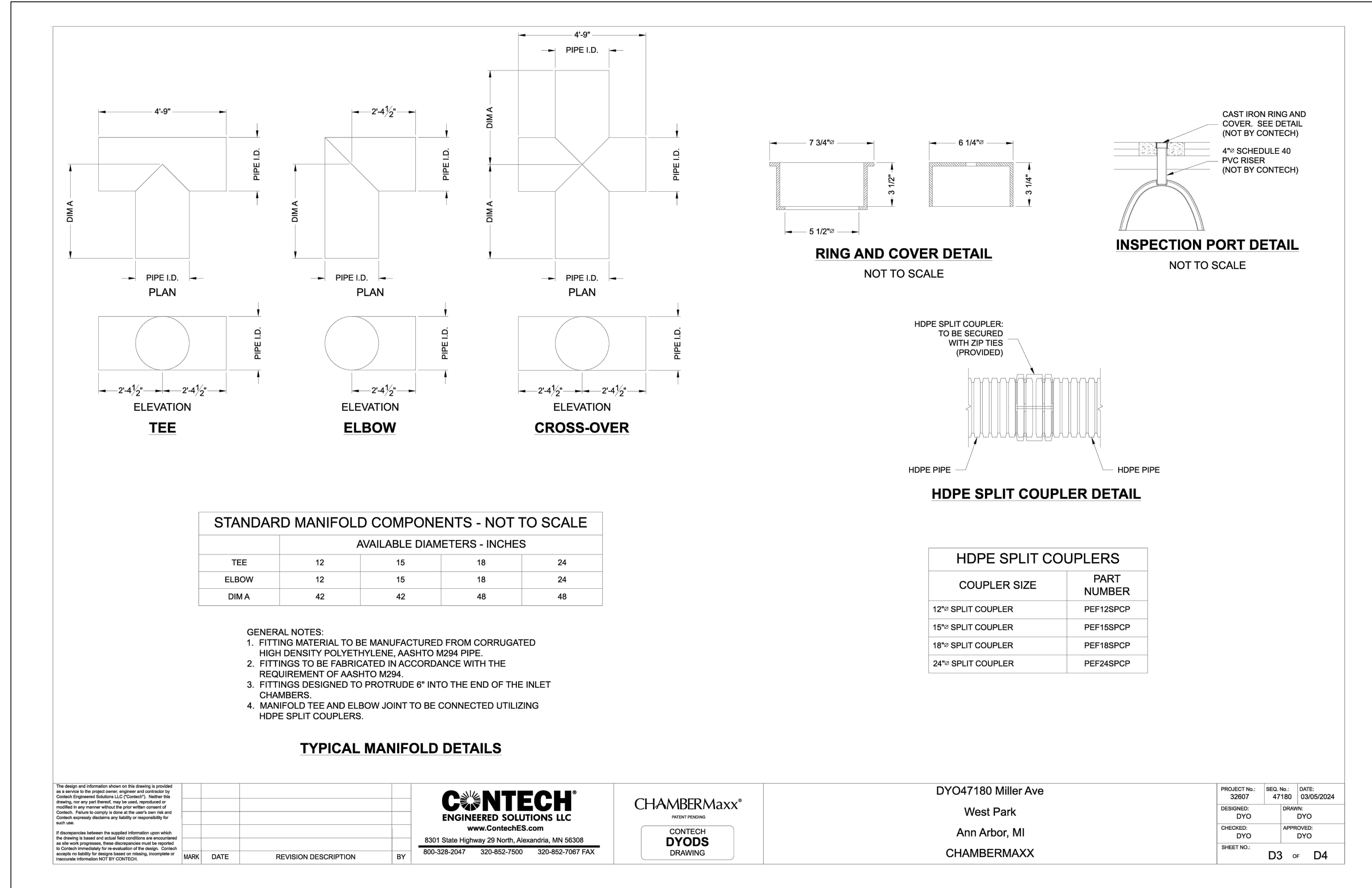
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CHAMBERMaxx
CONTECH DYODS DRAWING

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West Park
Ann Arbor, MI
CHAMBERMAXX

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| PROJECT No. | 32607 | DATE | 03/05/2024 |
| DESIGNED | DYO | DRAWN | DYO |
| CHECKED | DYO | APPROVED | DYO |
| SHEET No. | D2 OF D4 | | |



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PEDESTAL RINGS
CONTECH
DYODS
DRAWING

DYO47180 Miller Ave
West Park
Ann Arbor, MI
CHAMBERMAXX

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| 32507 | 47180 | 03/05/2024 |
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| DYO | DYO | |
| CHECKED | APPROVED | |
| DYO | DYO | |
| SHEET No. | | |
| D3 | OF | D4 |



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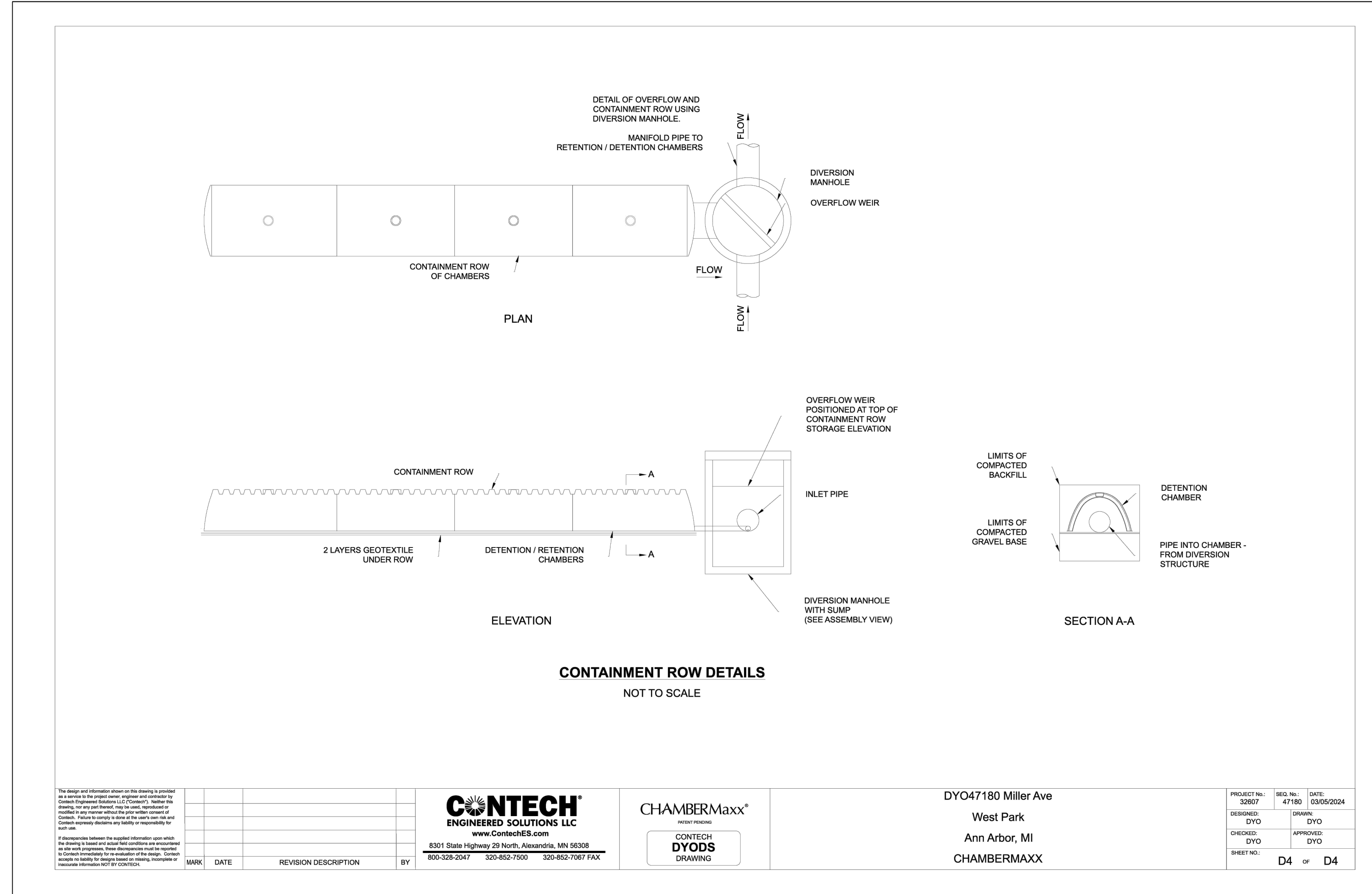
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MILLER AVENUE REHABILITATION

SCALE PLAN: N.T.S.
DRAWING No. 2022034-14

REV. DESCRIPTION

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CONTECH CHAMBERMAXX



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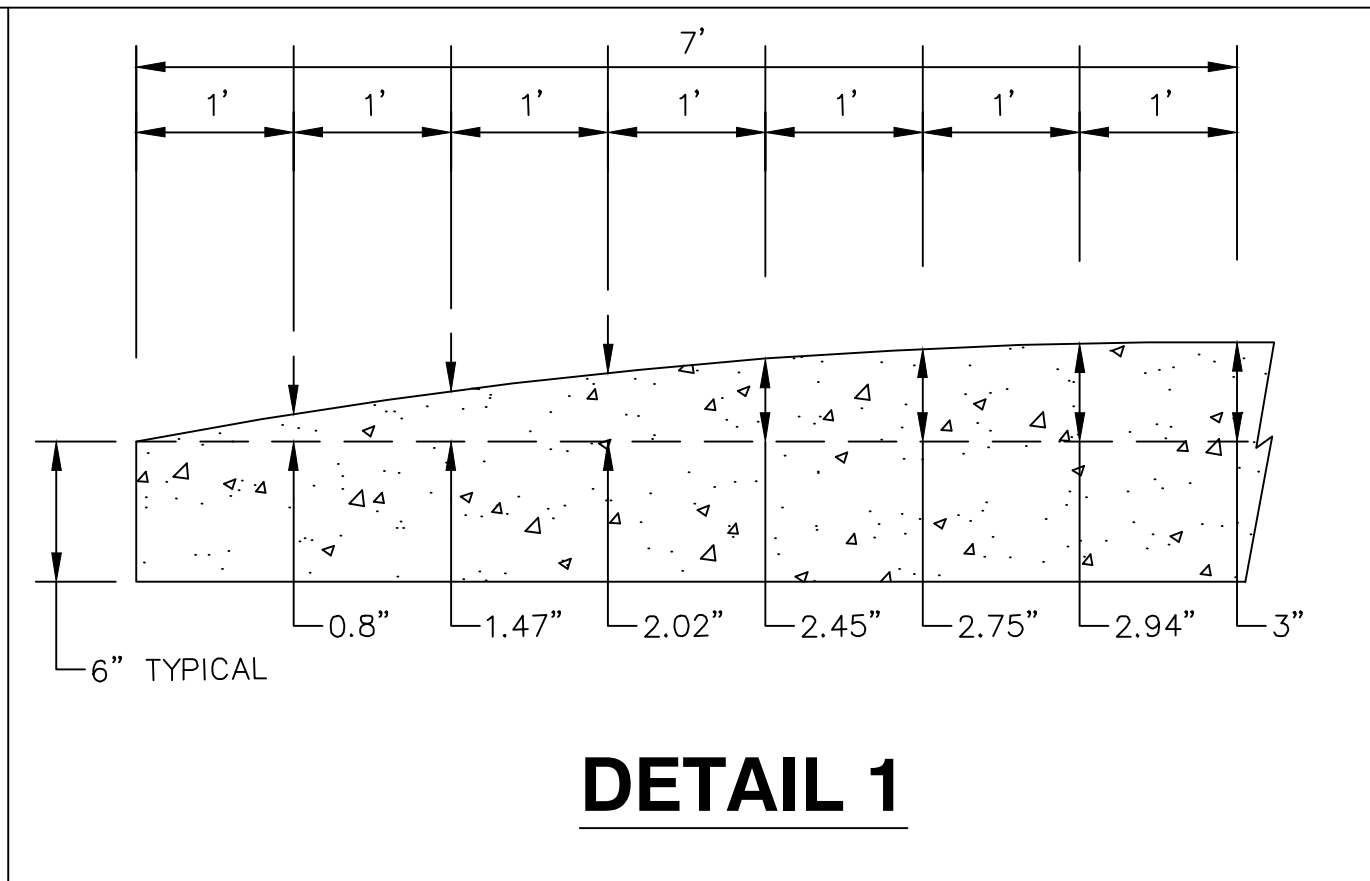
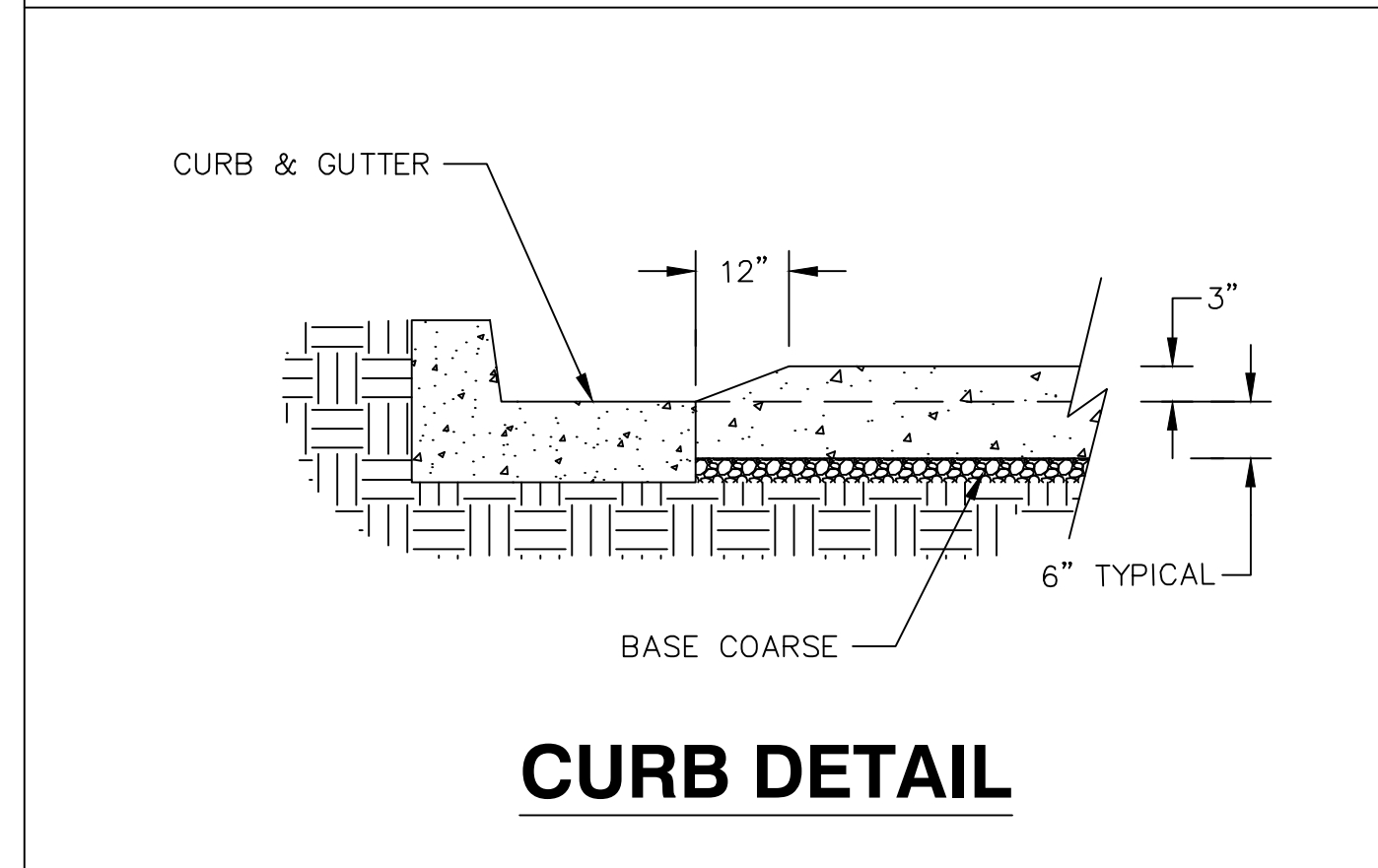
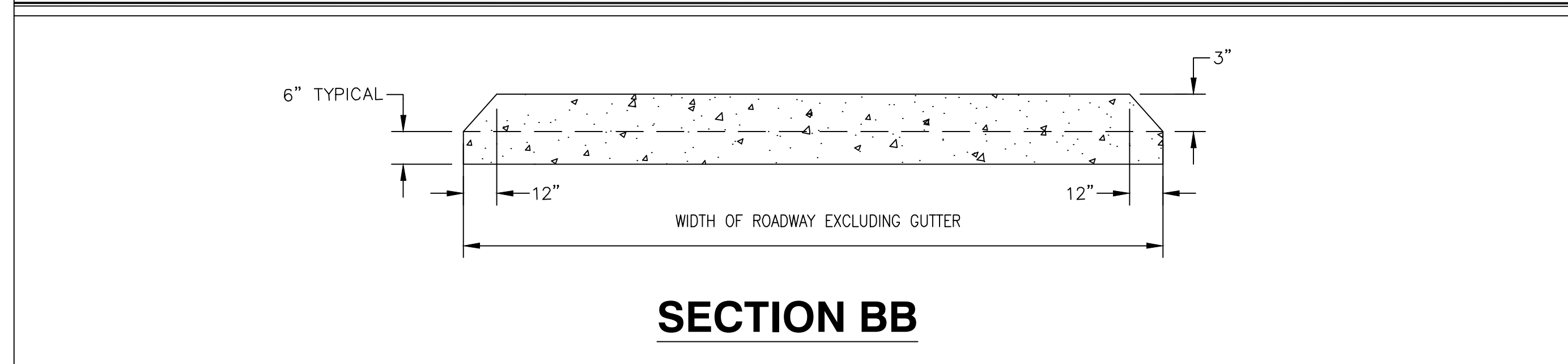
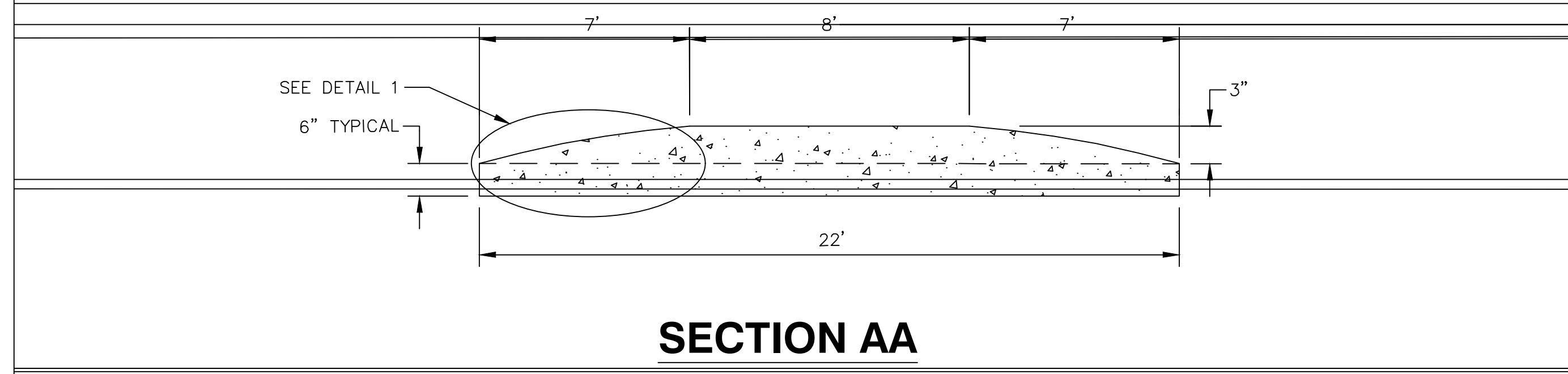
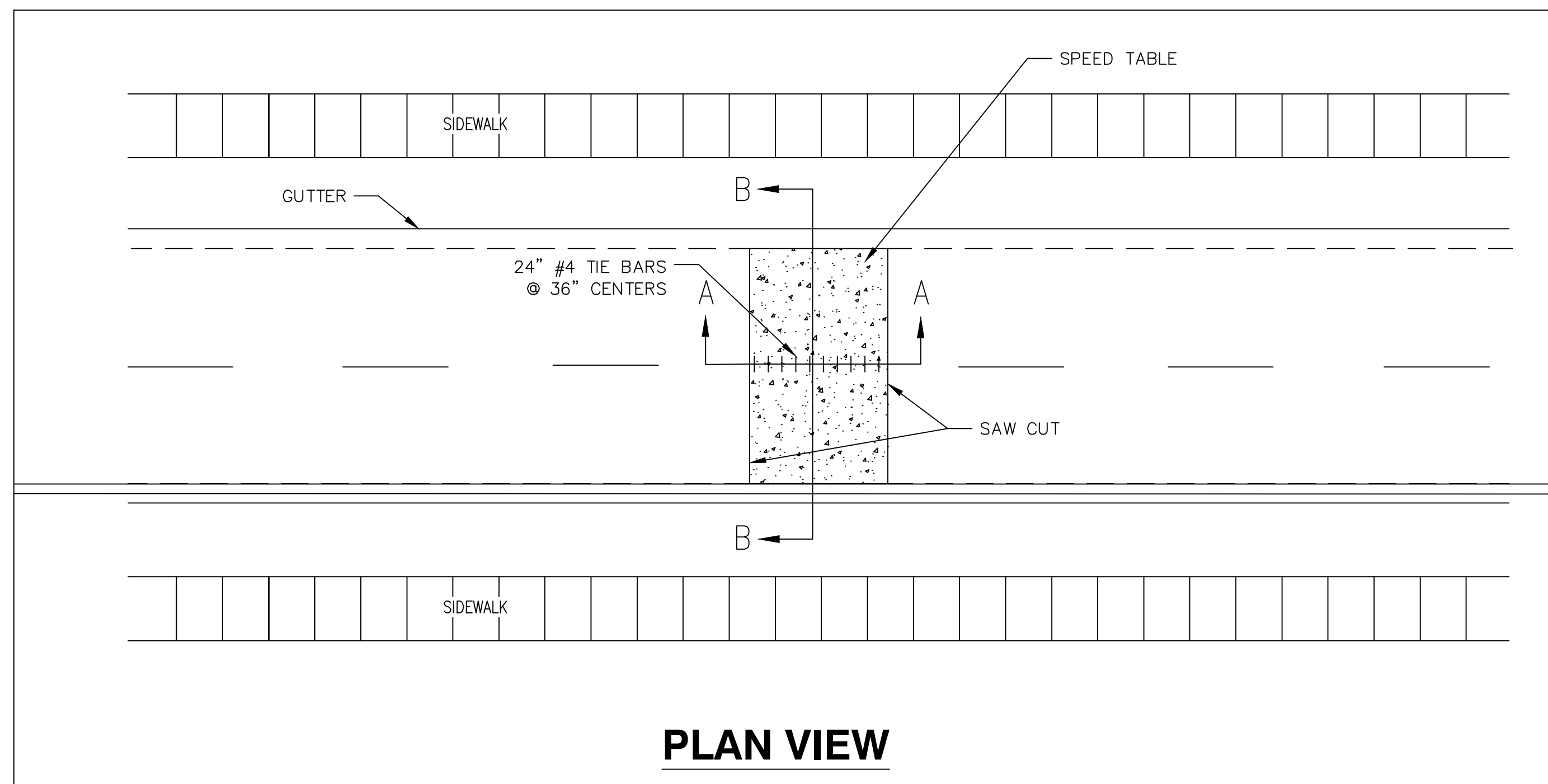
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Ann Arbor, MI
CHAMBERMAXX

| | | |
|-------------|-----------|------------|
| PROJECT NO: | SEQ. NO.: | DATE: |
| 32607 | 47180 | 03/09/2024 |
| DESIGNED: | DRAWN: | |
| DYO | DYO | |
| CHECKED: | APPROVED: | |
| DYO | DYO | |
| SHEET NO.: | D4 of D4 | |

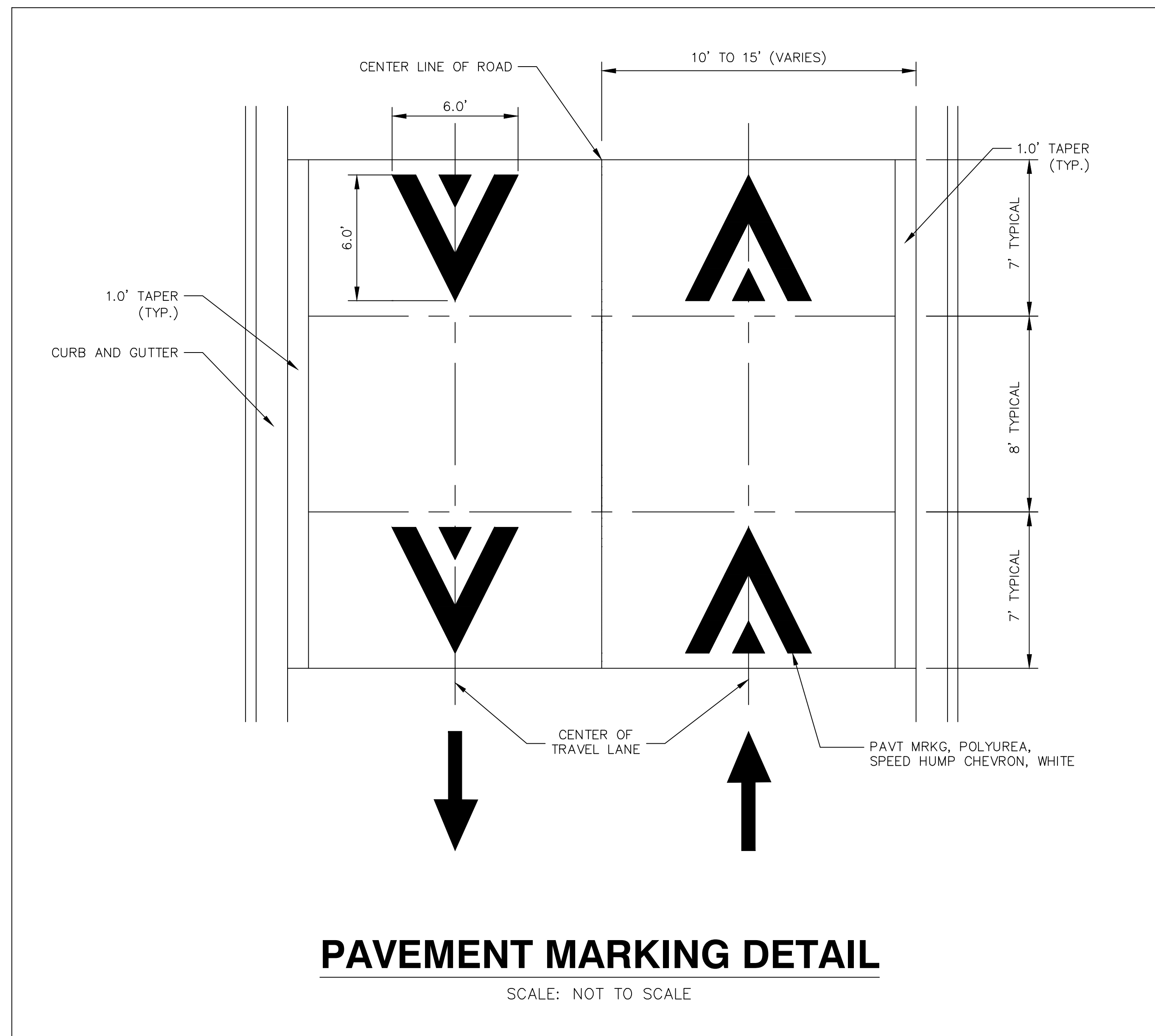
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CONCRETE SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



Know what's below. Call before you dig.

| REV. | DATE | DESCRIPTION | DRAWN | CHECKED |
|------|--------|-------------|-------|---------|
| 00 | 4-9-24 | | AZD | JKA |

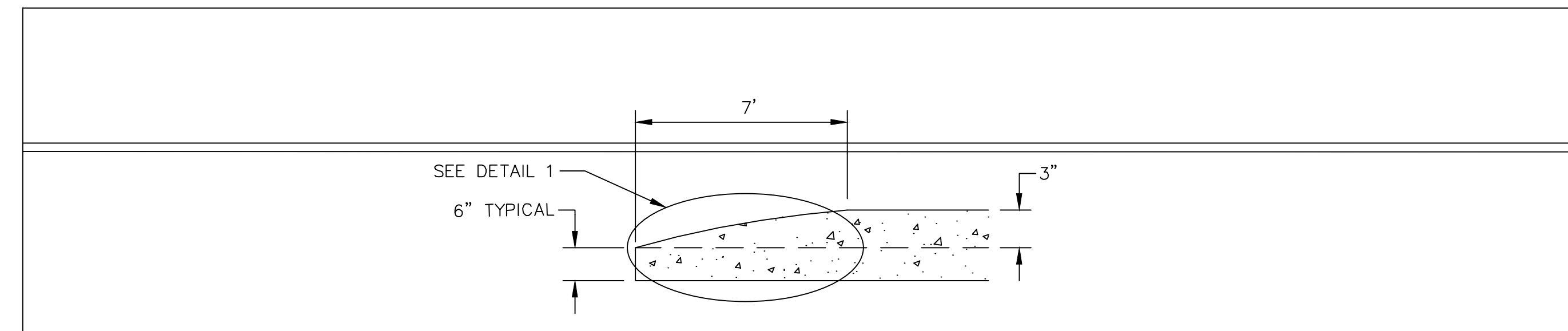
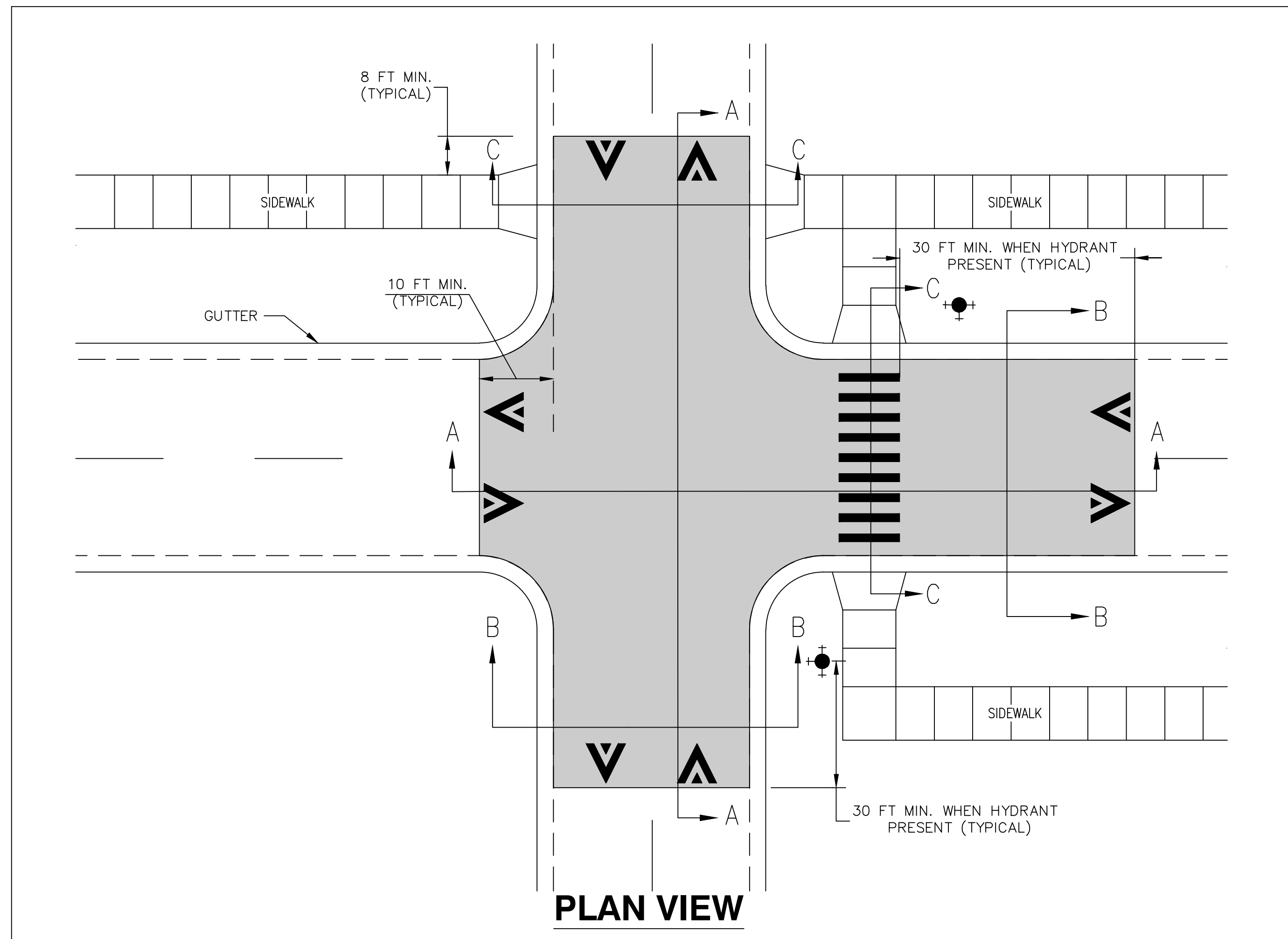
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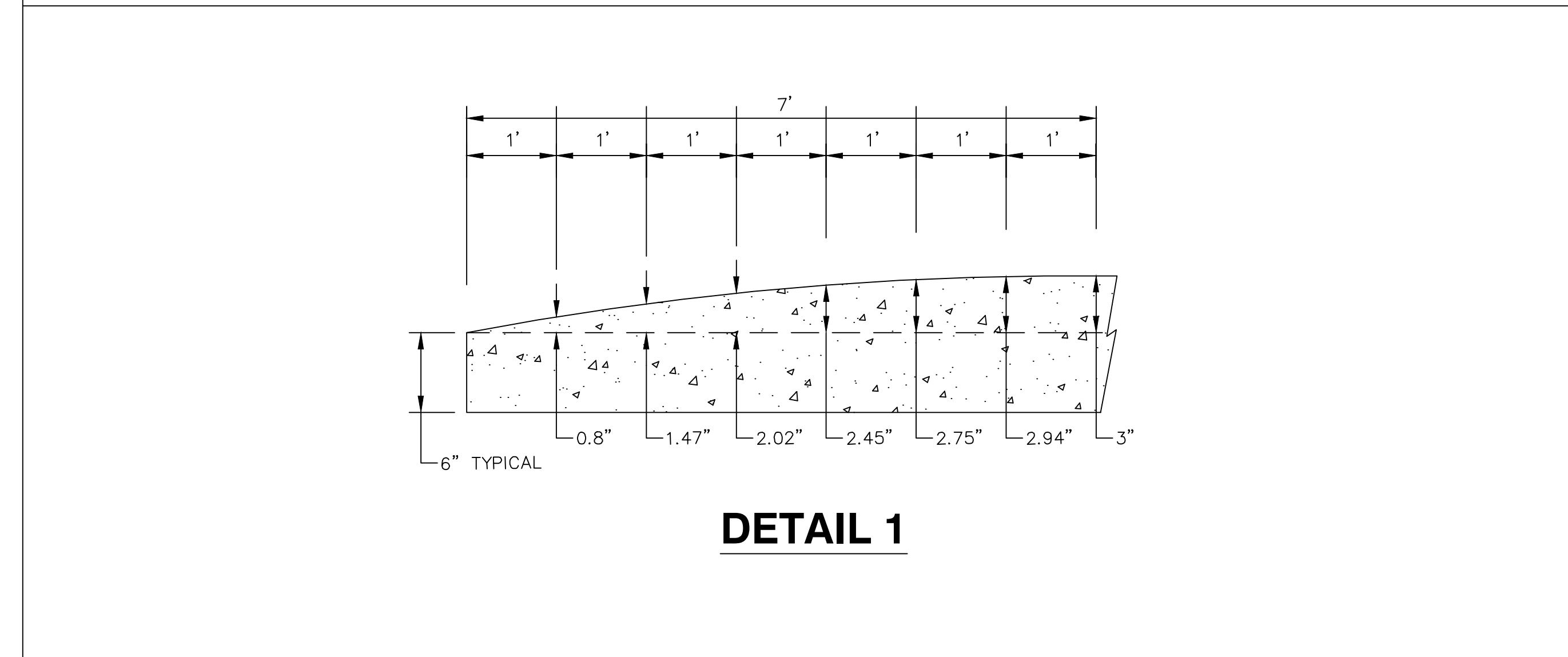
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CONCRETE SPEED TABLE DETAIL

SCALE: NTS
DRAWING No. 2022034-16

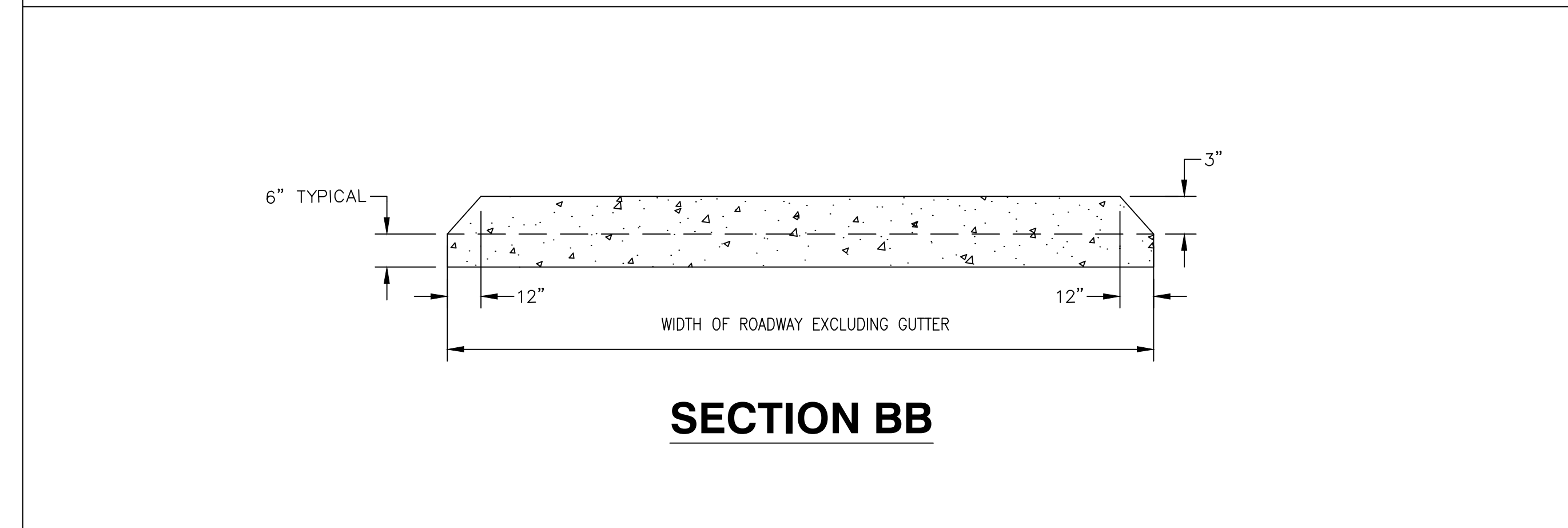
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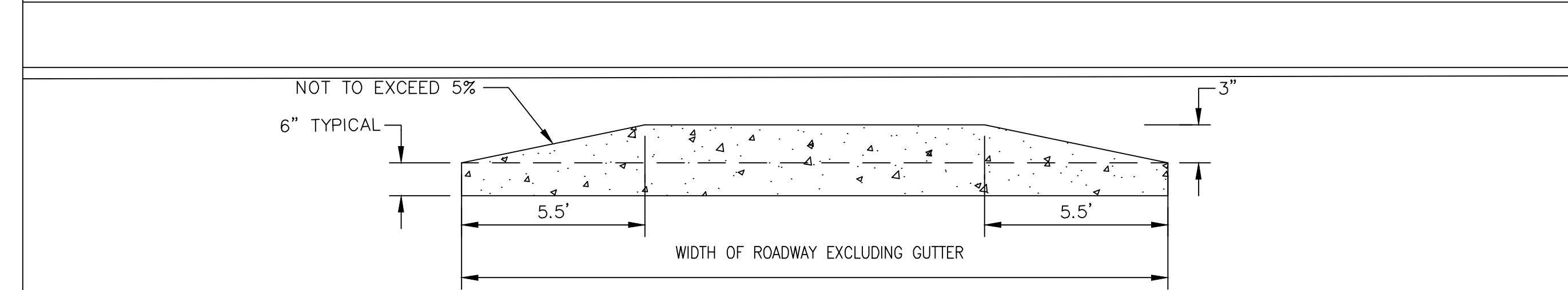
SECTION AA



DETAIL 1



SECTION BB



SECTION CC

CONCRETE RAISE INTERSECTION DETAIL

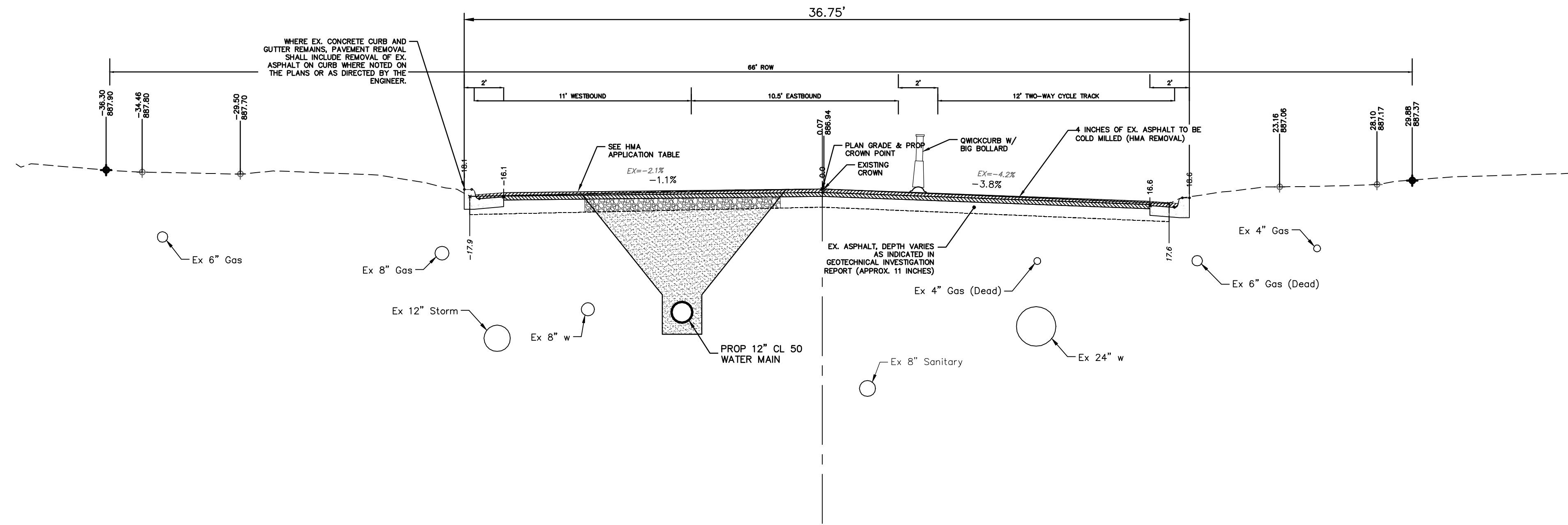
SCALE: NOT TO SCALE

GENERAL NOTES

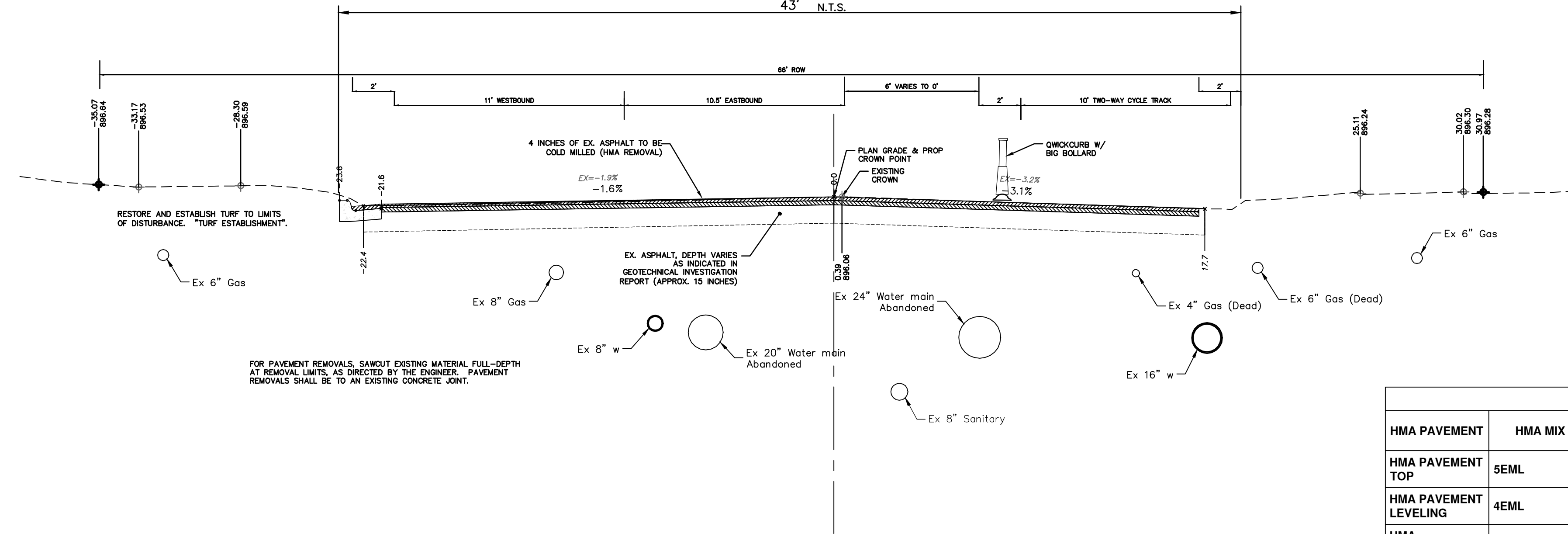
1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.

2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

R:\2022034 Miller Ave Rehab\Source Drawings\Align-Corridor\2022034 Xsectn.dwg Dwg Created: 26-Mar-24 - _a2 standard bw.sib - Plot Date: 5-Apr-24



**MILLER AVENUE
TYPICAL SECTION**
STA. 50+75 TO 58+50
43' N.T.S.



**MILLER AVENUE
TYPICAL SECTION**
P.O.B. TO STA. 50+75
N.T.S.

| HMA APPLICATION ESTIMATE | | | | | | |
|--------------------------|---------|---------------------|--------------------|------------|----------|-----------------------------|
| HMA PAVEMENT | HMA MIX | RATE OF APPLICATION | THICKNESS (INCHES) | AWI (MIN.) | BINDER | LOCATION/NOTES |
| HMA PAVEMENT TOP | 5EML | 220 LB/SYD | 2.0 | 220 (TOP) | PG 64-28 | TOP COURSE |
| HMA PAVEMENT LEVELING | 4EML | 275 LB/SYD | 2.5 | - | PG 64-28 | LEVELING COURSE |
| HMA APPROACH TOP | 4EML | 220 LB/SYD | 2 | 220 (TOP) | PG 64-28 | TOP COURSE |
| HMA APPROACH LEVELING | 4EML | 220 LB/SYD | 2 | - | PG 64-28 | LEVELING COURSE |
| HAND PATCHING | 4EML | 0 - 440 LB/SYD | | | PG 64-28 | HAND PATCHING |
| ASPHALT EMULSION | SS-1h | 0.05 - 0.15 GAL/SYD | - | - | - | INCLUDE IN COST OF HMA ITEM |



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

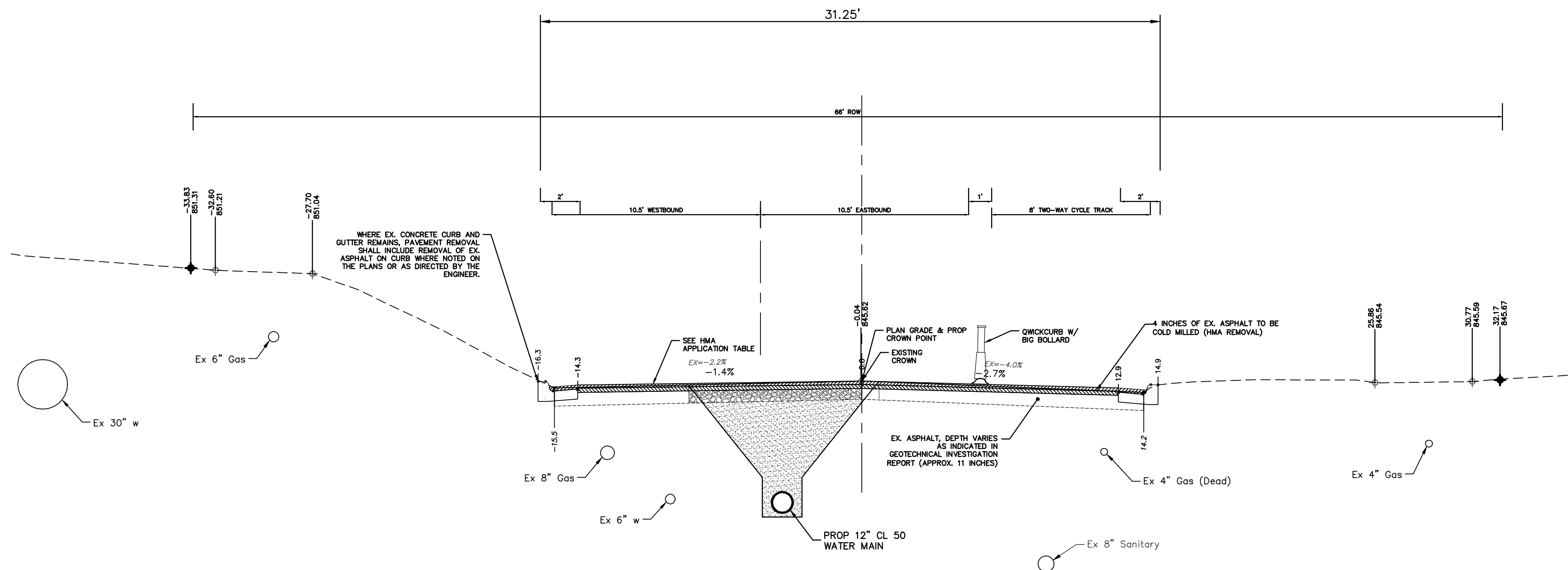
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
www.a2gov.org



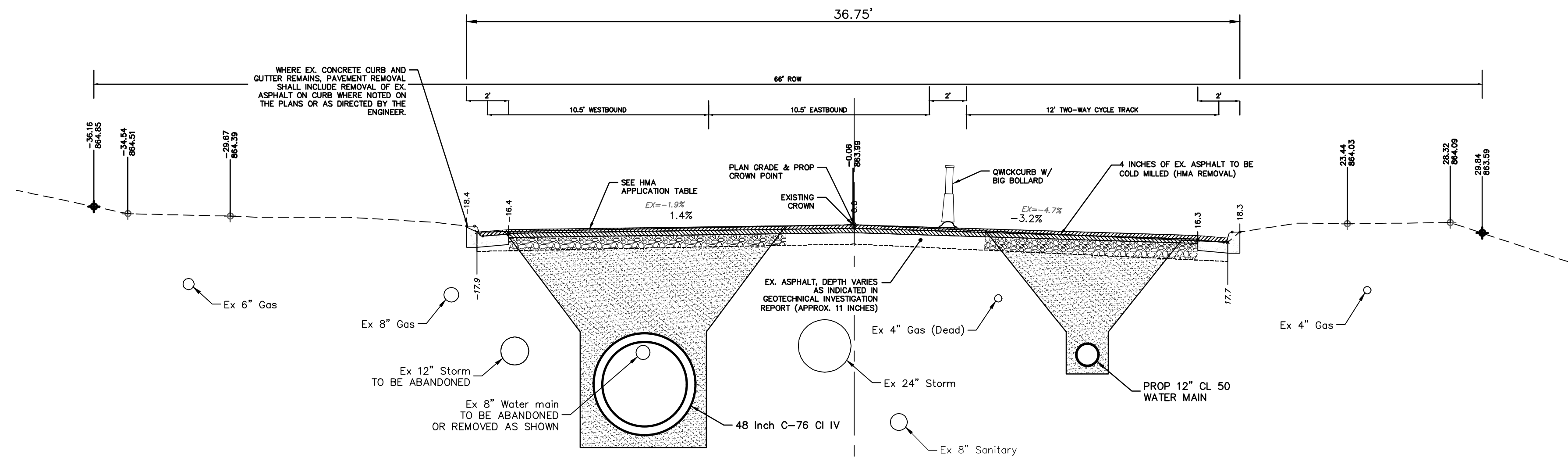
MILLER AVENUE REHABILITATION
MILLER SECTIONS 1

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2022034-1B

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**MILLER AVENUE
TYPICAL SECTION**
STA. 63+85 TO 68+75
N.T.S.



**MILLER AVENUE
TYPICAL SECTION**
STA. 58+50 TO STA. 63+85
N.T.S.



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

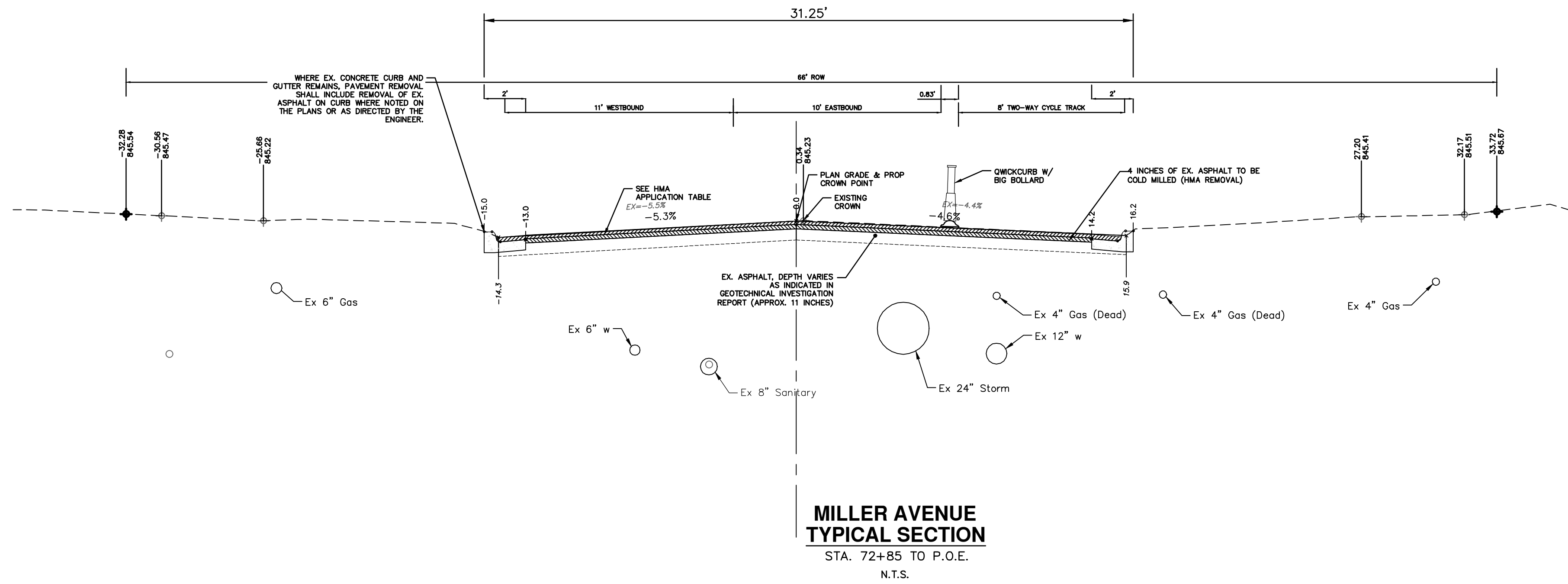
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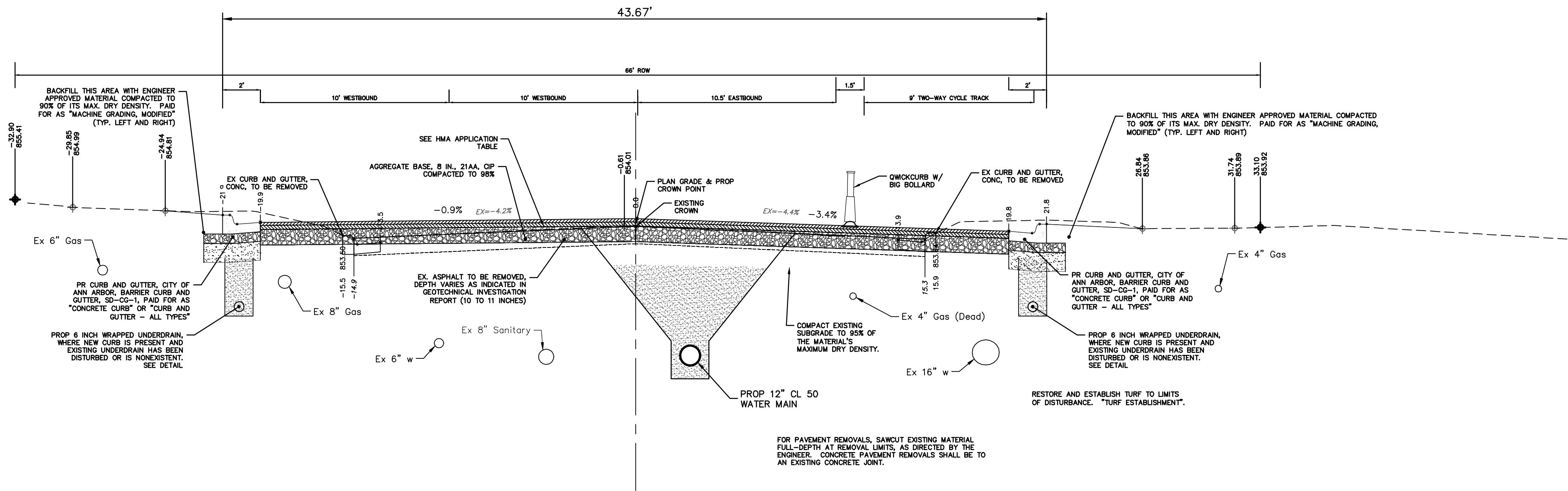
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
MILLER SECTIONS 2

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2022034-19

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**MILLER AVENUE
TYPICAL SECTION**
STA. 72+85 TO P.O.E.
N.T.S.



**MILLER AVENUE
TYPICAL SECTION**
STA 68+75. TO STA.72+85
N.T.S.



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

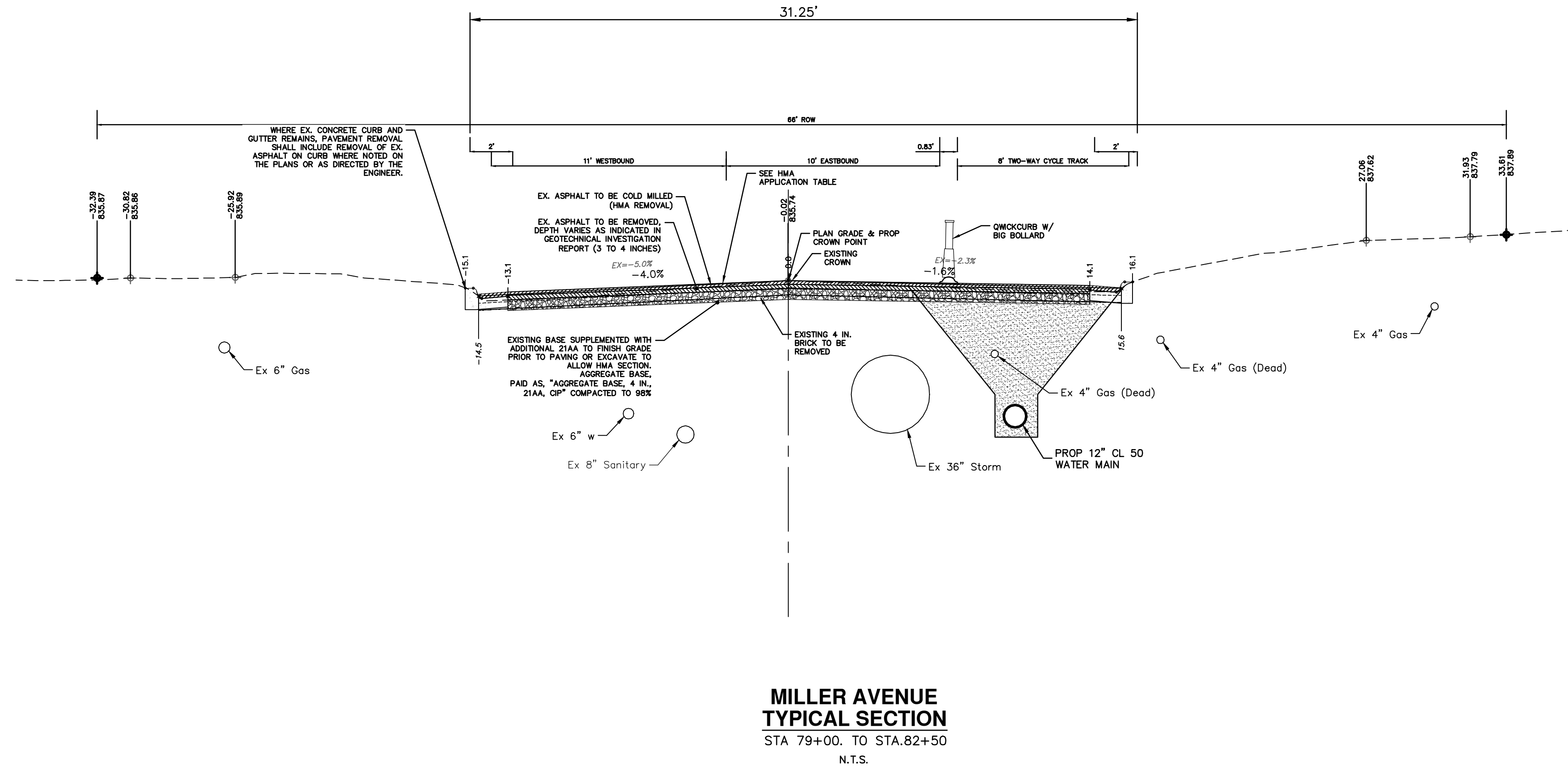
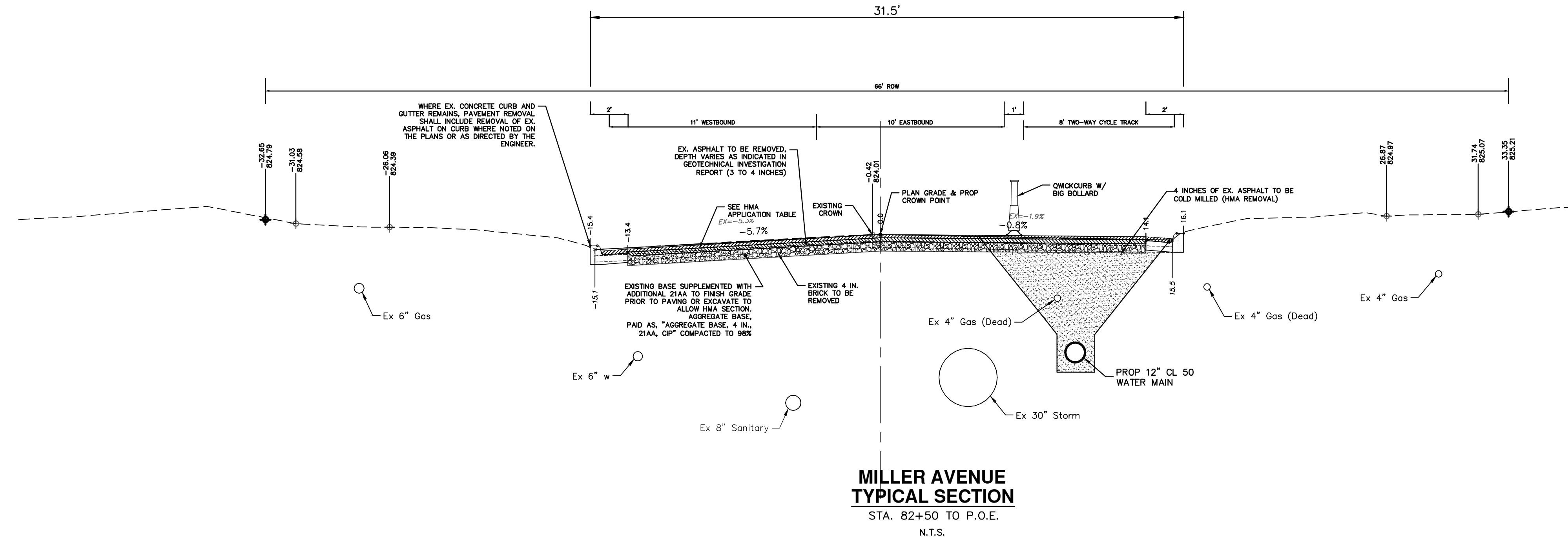
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
MILLER SECTIONS 3

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2022034-20

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Know what's below.
Call Before you dig.

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-8647
ANN ARBOR
734.784.4410
www.a2gov.org



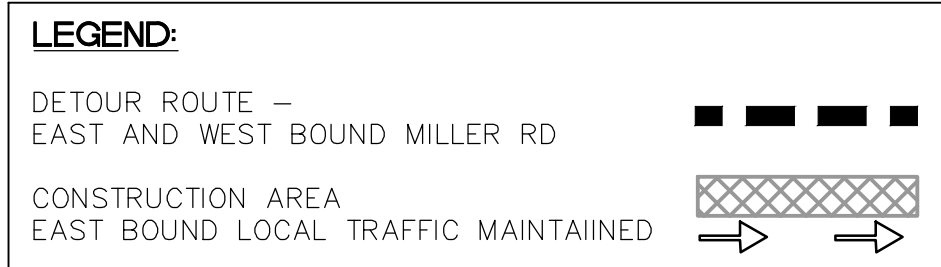
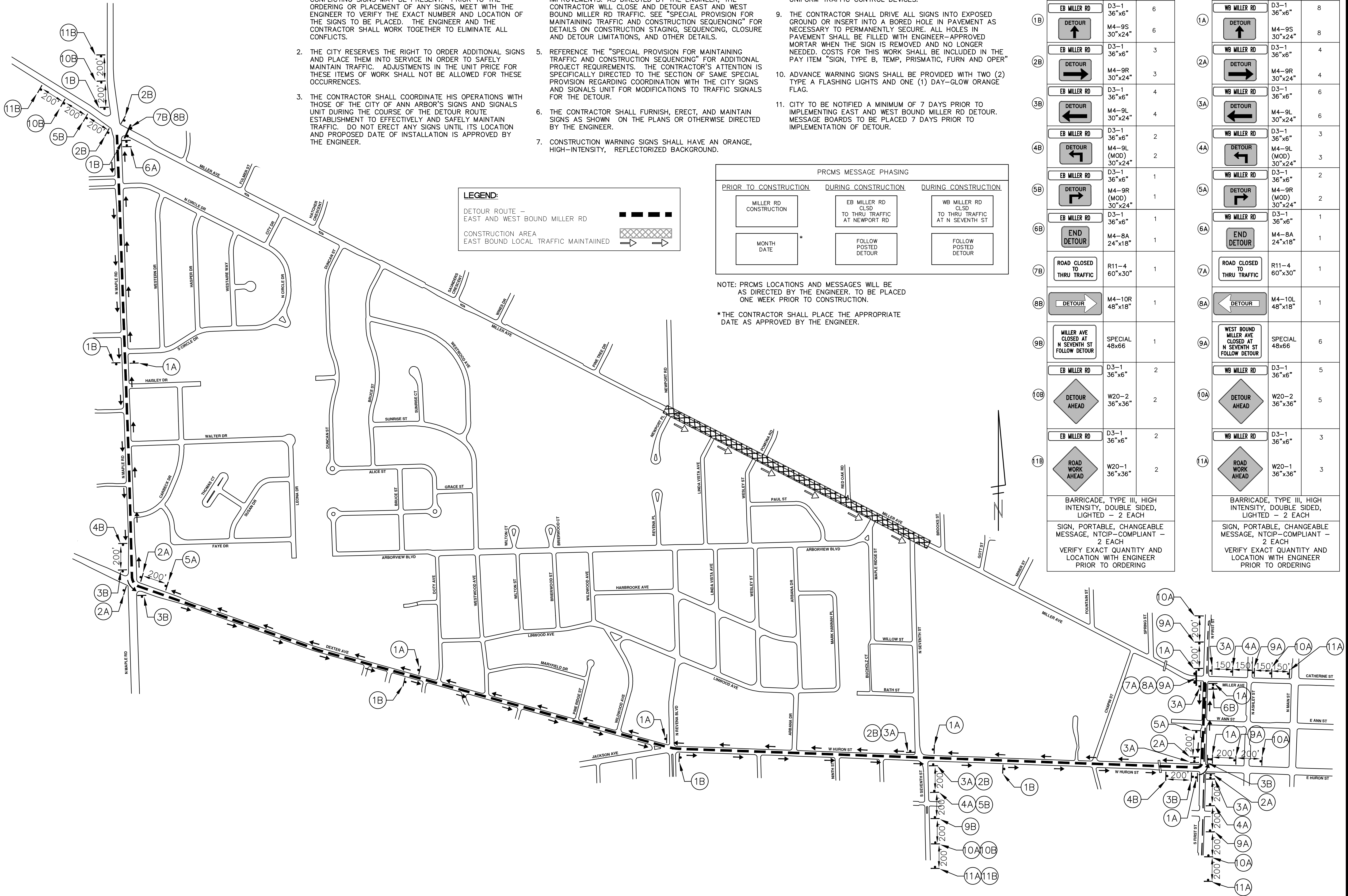
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
MILLER SECTIONS 4

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2022034-21

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

DETOUR CONSTRUCTION NOTES:

1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
4. THE DETOUR IS TO BE IN PLACE DURING MILLER RD IMPROVEMENTS, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL CLOSE AND DETOUR EAST AND WEST BOUND MILLER RD TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
5. REFERENCE THE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN AND OPER"
10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE (1) DAY-GLOW ORANGE FLAG.
11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING EAST AND WEST BOUND MILLER RD DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF DETOUR.



PRCMS MESSAGE PHASING

| PRIOR TO CONSTRUCTION | DURING CONSTRUCTION | DURING CONSTRUCTION |
|------------------------|---|---|
| MILLER RD CONSTRUCTION | EB MILLER RD CLSD TO THRU TRAFFIC AT NEWPORT RD | WB MILLER RD CLSD TO THRU TRAFFIC AT N SEVENTH ST |
| MONTH DATE * | FOLLOW POSTED DETOUR | FOLLOW POSTED DETOUR |

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

EAST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|---|---------------------|----------|
| EB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9S 30"x24" | 6 |
| EB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR | M4-9R 30"x24" | 3 |
| EB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9L 30"x24" | 4 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9L (MOD) 30"x24" | 2 |
| EB MILLER RD | D3-1 36"x6" | 1 |
| DETOUR | M4-9R (MOD) 30"x24" | 1 |
| EB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED TO THRU TRAFFIC | R11-4 60"x30" | 1 |
| DETOUR | M4-10R 48"x18" | 1 |
| MILLER AVE CLOSED AT N SEVENTH ST FOLLOW DETOUR | SPECIAL 48x66 | 1 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR AHEAD | W20-2 36"x36" | 2 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| ROAD WORK AHEAD | W20-1 36"x36" | 2 |

BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH

SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH

VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING

WEST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|--|---------------------|----------|
| WB MILLER RD | D3-1 36"x6" | 8 |
| DETOUR | M4-9S 30"x24" | 8 |
| WB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9R 30"x24" | 4 |
| WB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9L 30"x24" | 6 |
| WB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR | M4-9L (MOD) 30"x24" | 3 |
| WB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9R (MOD) 30"x24" | 2 |
| WB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED TO THRU TRAFFIC | R11-4 60"x30" | 1 |
| DETOUR | M4-10L 48"x18" | 1 |
| WEST BOUND MILLER AVE CLOSED AT N SEVENTH ST FOLLOW DETOUR | SPECIAL 48x66 | 6 |
| WB MILLER RD | D3-1 36"x6" | 5 |
| DETOUR AHEAD | W20-2 36"x36" | 5 |
| WB MILLER RD | D3-1 36"x6" | 3 |
| ROAD WORK AHEAD | W20-1 36"x36" | 3 |

BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH

SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH

VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING

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

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
DETOUR ROUTE
PHASE I (STAGE I & II (WATER MAIN))

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
ANN ARBOR 734-754-4410
www.a3gov.org

SCALE PLAN: 1" = 300'

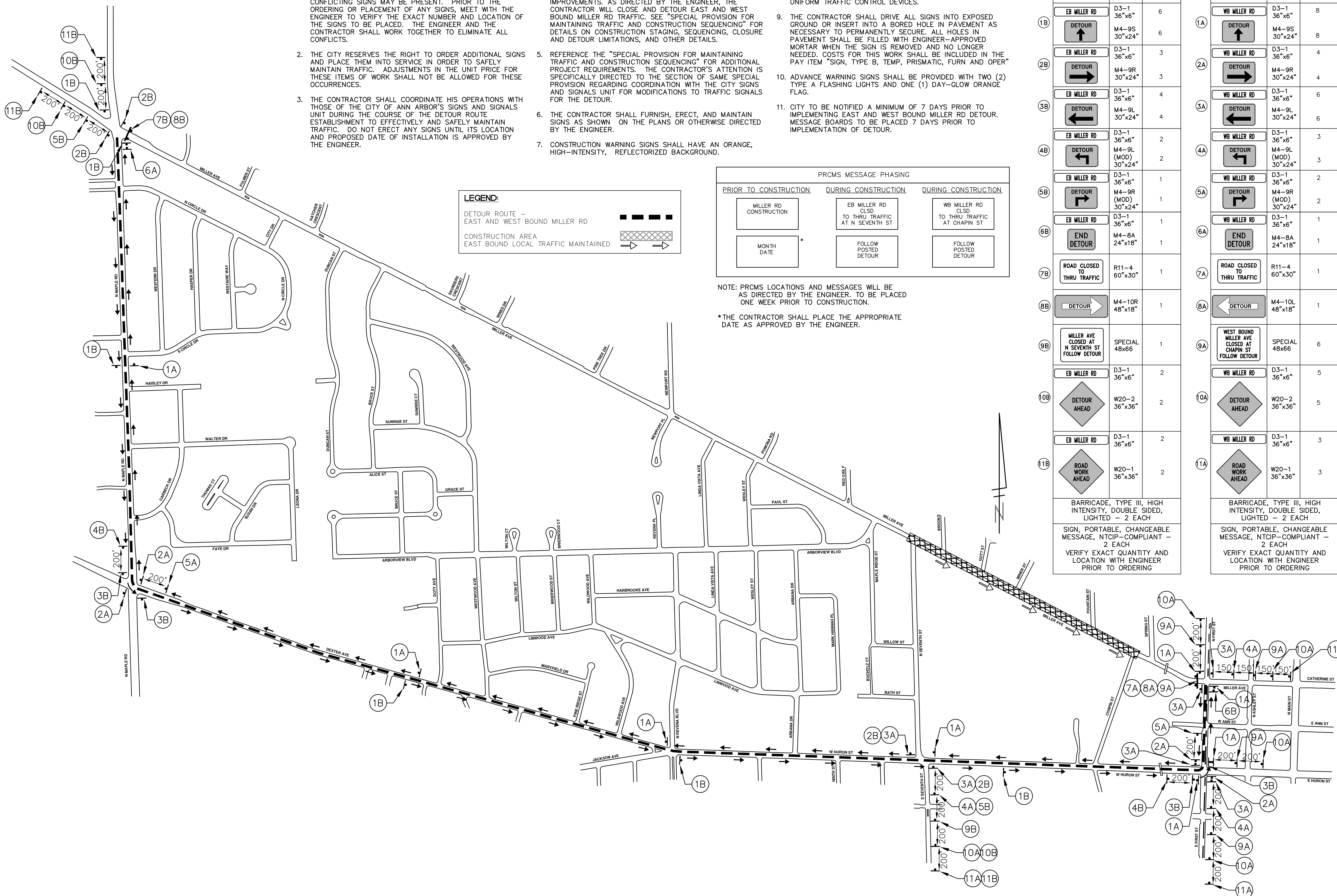
DRAWING No. 2022034-22

SHEET No. 22 OF 130

| REV. | DATE | DESCRIPTION |
|------|--------|-------------|
| 00 | 4-9-24 | BID SET |
| AZD | | DRAWN |
| JKA | | CHECKED |

DETOUR CONSTRUCTION NOTES:

1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
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8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
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10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE (1) DAY-GLOW ORANGE FLAG.
11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING EAST AND WEST BOUND MILLER RD DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF DETOUR.



LEGEND:

DETOUR ROUTE - EAST AND WEST BOUND MILLER RD [Dashed line symbol]

CONSTRUCTION AREA EAST BOUND LOCAL TRAFFIC MAINTAINED [Hatched area symbol]

PRCMS MESSAGE PHASING

| PRIOR TO CONSTRUCTION | DURING CONSTRUCTION | DURING CONSTRUCTION |
|------------------------|---|--|
| MILLER RD CONSTRUCTION | EB MILLER RD CLSD TO THRU TRAFFIC AT N SEVENTH ST | WB MILLER RD CLSD TO THRU TRAFFIC AT CHAPIN ST |
| MONTH DATE * | FOLLOW POSTED DETOUR | FOLLOW POSTED DETOUR |

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

EAST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|---|---------------------|----------|
| EB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9S 30"x24" | 6 |
| EB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR | M4-9R 30"x24" | 3 |
| EB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9L 30"x24" | 4 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9L (MOD) 30"x24" | 2 |
| EB MILLER RD | D3-1 36"x6" | 1 |
| DETOUR | M4-9R (MOD) 30"x24" | 1 |
| EB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED TO THRU TRAFFIC | R11-4 60"x30" | 1 |
| DETOUR | M4-10R 48"x18" | 1 |
| MILLER AVE CLOSED AT N SEVENTH ST FOLLOW DETOUR | SPECIAL 48x66 | 1 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR AHEAD | W20-2 36"x36" | 2 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| ROAD WORK AHEAD | W20-1 36"x36" | 2 |
| BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH | | |
| SIGN, PORTABLE, CHANGEABLE MESSAGE, NTOIP-COMPLIANT - 2 EACH | | |
| VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING | | |

WEST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|---|---------------------|----------|
| WB MILLER RD | D3-1 36"x6" | 8 |
| DETOUR | M4-9S 30"x24" | 8 |
| WB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9R 30"x24" | 4 |
| WB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9L 30"x24" | 6 |
| WB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR | M4-9L (MOD) 30"x24" | 3 |
| WB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9R (MOD) 30"x24" | 2 |
| WB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED TO THRU TRAFFIC | R11-4 60"x30" | 1 |
| DETOUR | M4-10L 48"x18" | 1 |
| WEST BOUND MILLER AVE CLOSED AT CHAPIN ST FOLLOW DETOUR | SPECIAL 48x66 | 6 |
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| WB MILLER RD | D3-1 36"x6" | 3 |
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| BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH | | |
| SIGN, PORTABLE, CHANGEABLE MESSAGE, NTOIP-COMPLIANT - 2 EACH | | |
| VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING | | |

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

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
DETOUR ROUTE
PHASE II STAGE I & II (WATER MAIN)

SCALE PLAN: 1" = 300'

DRAWING No. 2022034-23

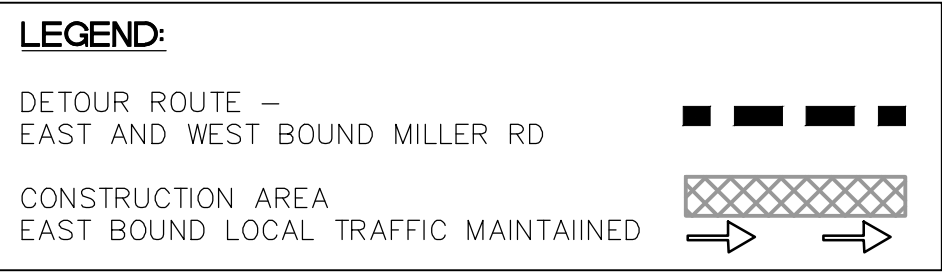
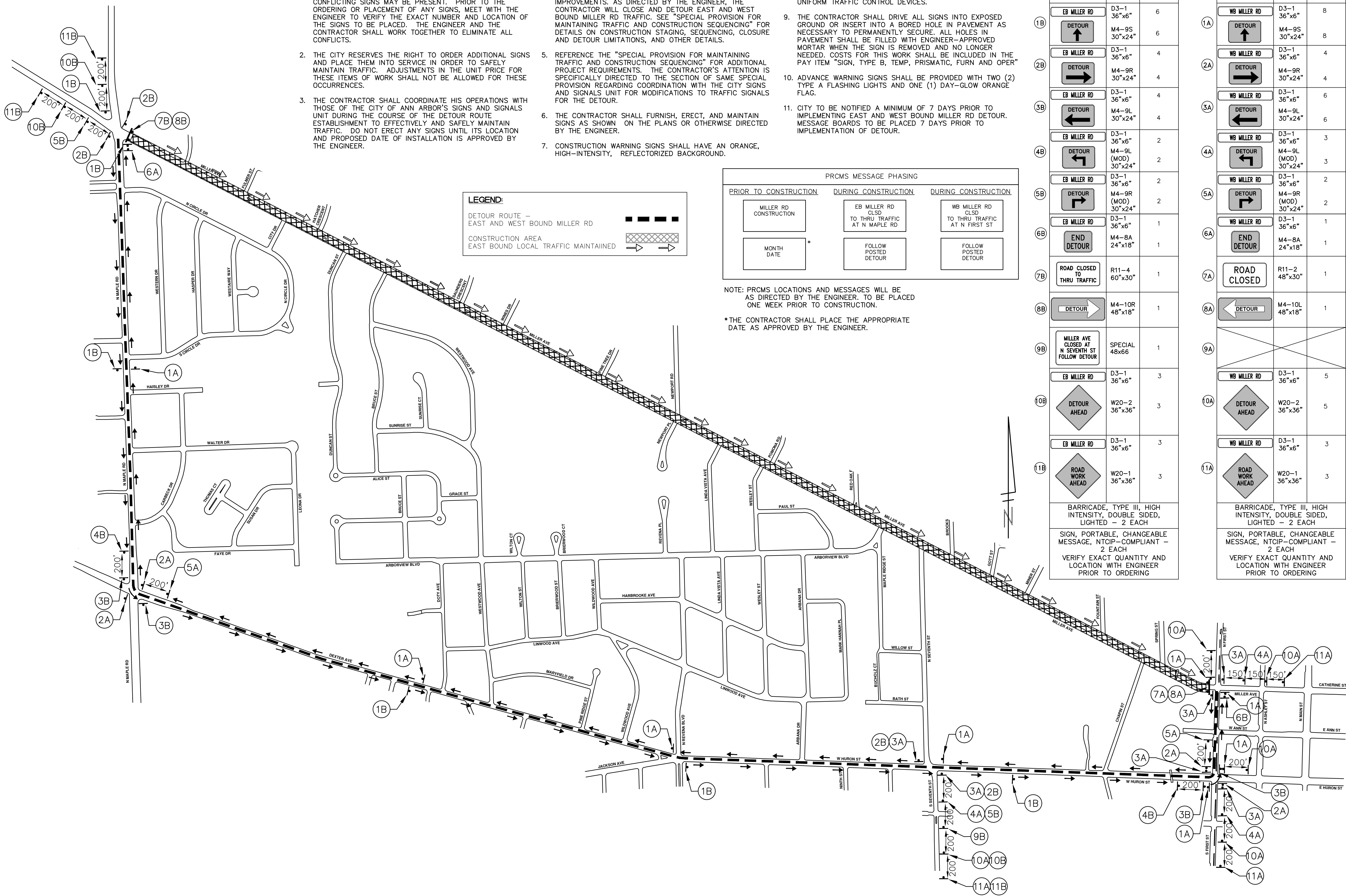
SHEET No. 23 OF 130

| NO. | DATE | DESCRIPTION | REV. |
|-----|--------|-------------|---------|
| 00 | 4-9-24 | BID SET | |
| | | AZD | DRAWN |
| | | JKA | CHECKED |

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
ANN ARBOR 734-784-4410
www.a2gov.org

DETOUR CONSTRUCTION NOTES:

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PRCMS MESSAGE PHASING

| PRIOR TO CONSTRUCTION | DURING CONSTRUCTION | DURING CONSTRUCTION |
|------------------------|---|---|
| MILLER RD CONSTRUCTION | EB MILLER RD CLSD TO THRU TRAFFIC AT N MAPLE RD | WB MILLER RD CLSD TO THRU TRAFFIC AT N FIRST ST |
| MONTH DATE * | FOLLOW POSTED DETOUR | FOLLOW POSTED DETOUR |

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

EAST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|---|---------------------|----------|
| EB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9S 30"x24" | 6 |
| EB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9R 30"x24" | 4 |
| EB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9L 30"x24" | 4 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9L (MOD) 30"x24" | 2 |
| EB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9R (MOD) 30"x24" | 2 |
| EB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED TO THRU TRAFFIC | R11-4 60"x30" | 1 |
| DETOUR | M4-10R 48"x18" | 1 |
| MILLER AVE CLOSED AT N SEVENTH ST FOLLOW DETOUR | SPECIAL 48x66 | 1 |
| EB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR AHEAD | W20-2 36"x36" | 3 |
| EB MILLER RD | D3-1 36"x6" | 3 |
| ROAD WORK AHEAD | W20-1 36"x36" | 3 |
| BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH | | |
| SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH | | |
| VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING | | |

WEST BOUND MILLER RD

| SIGN | NUMBER | QUANTITY |
|---|---------------------|----------|
| WB MILLER RD | D3-1 36"x6" | 8 |
| DETOUR | M4-9S 30"x24" | 8 |
| WB MILLER RD | D3-1 36"x6" | 4 |
| DETOUR | M4-9R 30"x24" | 4 |
| WB MILLER RD | D3-1 36"x6" | 6 |
| DETOUR | M4-9L 30"x24" | 6 |
| WB MILLER RD | D3-1 36"x6" | 3 |
| DETOUR | M4-9L (MOD) 30"x24" | 3 |
| WB MILLER RD | D3-1 36"x6" | 2 |
| DETOUR | M4-9R (MOD) 30"x24" | 2 |
| WB MILLER RD | D3-1 36"x6" | 1 |
| END DETOUR | M4-8A 24"x18" | 1 |
| ROAD CLOSED | R11-2 48"x30" | 1 |
| DETOUR | M4-10L 48"x18" | 1 |
| WB MILLER RD | D3-1 36"x6" | 5 |
| DETOUR AHEAD | W20-2 36"x36" | 5 |
| WB MILLER RD | D3-1 36"x6" | 3 |
| ROAD WORK AHEAD | W20-1 36"x36" | 3 |
| BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH | | |
| SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH | | |
| VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING | | |

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MILLER AVENUE REHABILITATION
DETOUR ROUTE
PHASE II STAGE III (CYCLE TRACK)

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CITY OF ANN ARBOR MICHIGAN

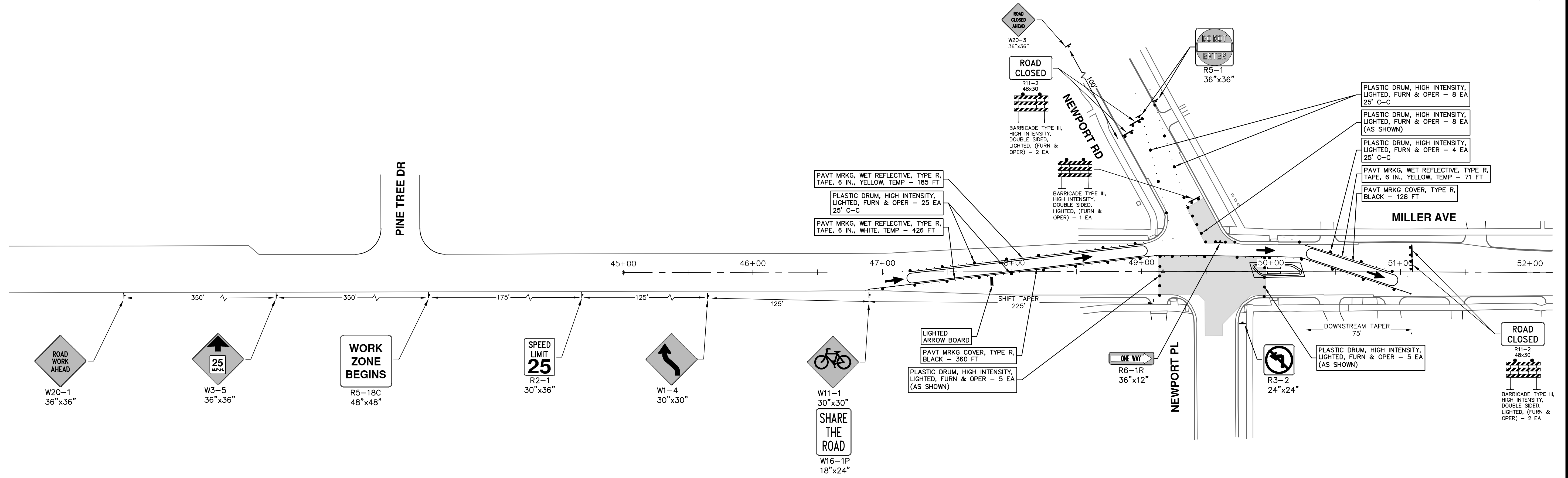
SCALE PLAN: 1" = 300'

DRAWING No. 2022034-24

SHEET No. 24 OF 130

| REV. | DATE | DESCRIPTION |
|------|--------|-------------|
| 00 | 4-9-24 | BID SET |
| | | AZD DRAWN |
| | | JKA CHECKED |

R:\2022034_Miller Ave Rehab\Plan Production\2022034M1r\FB.dwg Dwg Created: 29-Mar-24 - _g2_standard bw.stb - Plot Date: 5-Apr-24



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

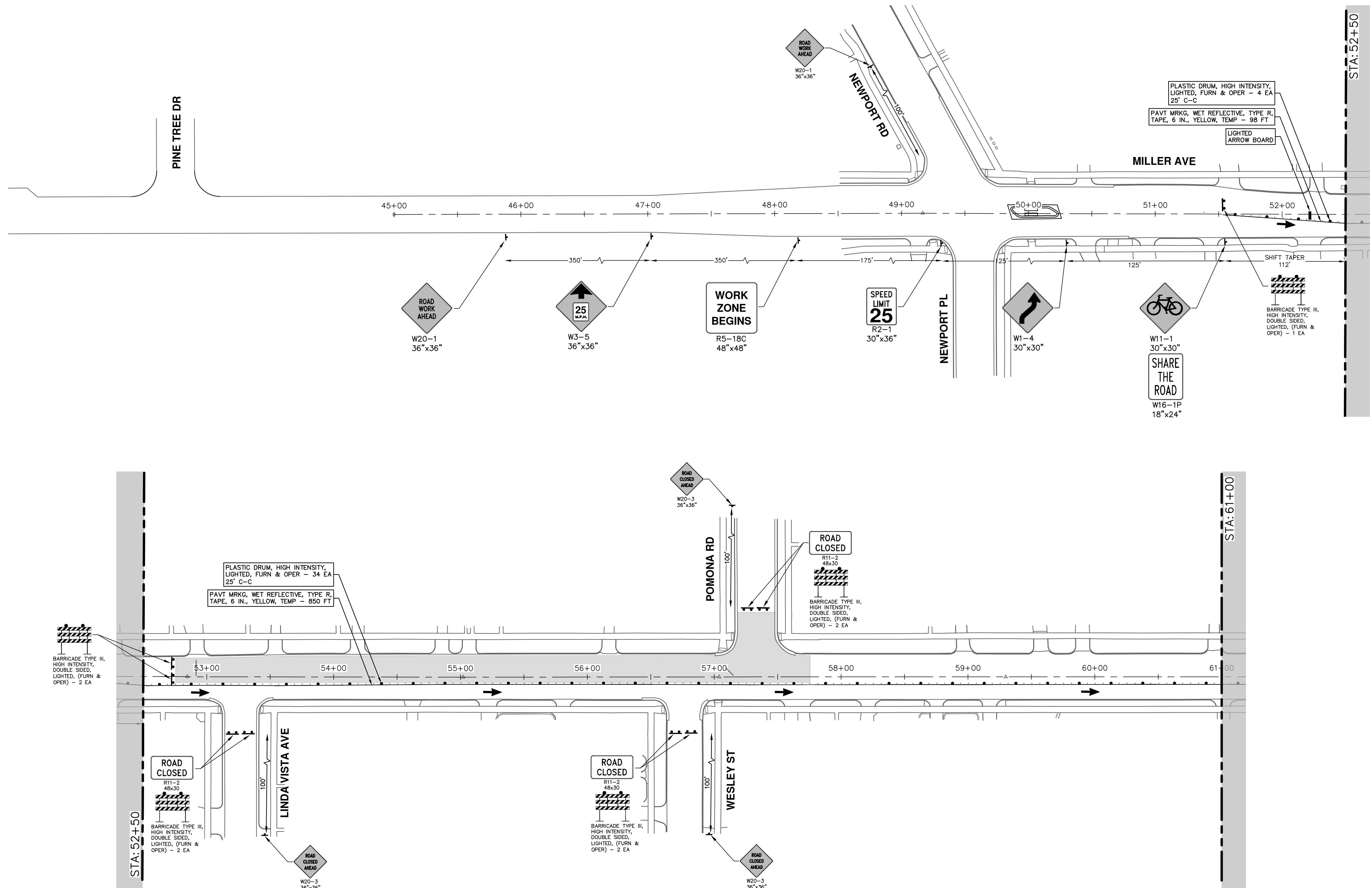
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MILLER AVENUE REHABILITATION
TRAFFIC CONTROL - PHASE I STAGE I (NEWPORT WATER MAIN CONN)
1 P.O.B. - STA. 61+00

SCALE: 1" = 40'
DRAWING No. 2022034-25

R:\2022034_Miller_Ave_Rehab\Plan Production\2022034M1trfA.dwg Dwg Created: 26-Mar-24 - _a2_standard bw.stb - Plot Date: 5-Apr-24



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MILLER AVENUE REHABILITATION

TRAFFIC CONTROL - PHASE I STAGE II (WATER MAIN)

SCALE: 1" = 40'

DRAWING No. 2022034-26

SHEET No. 26 OF 130

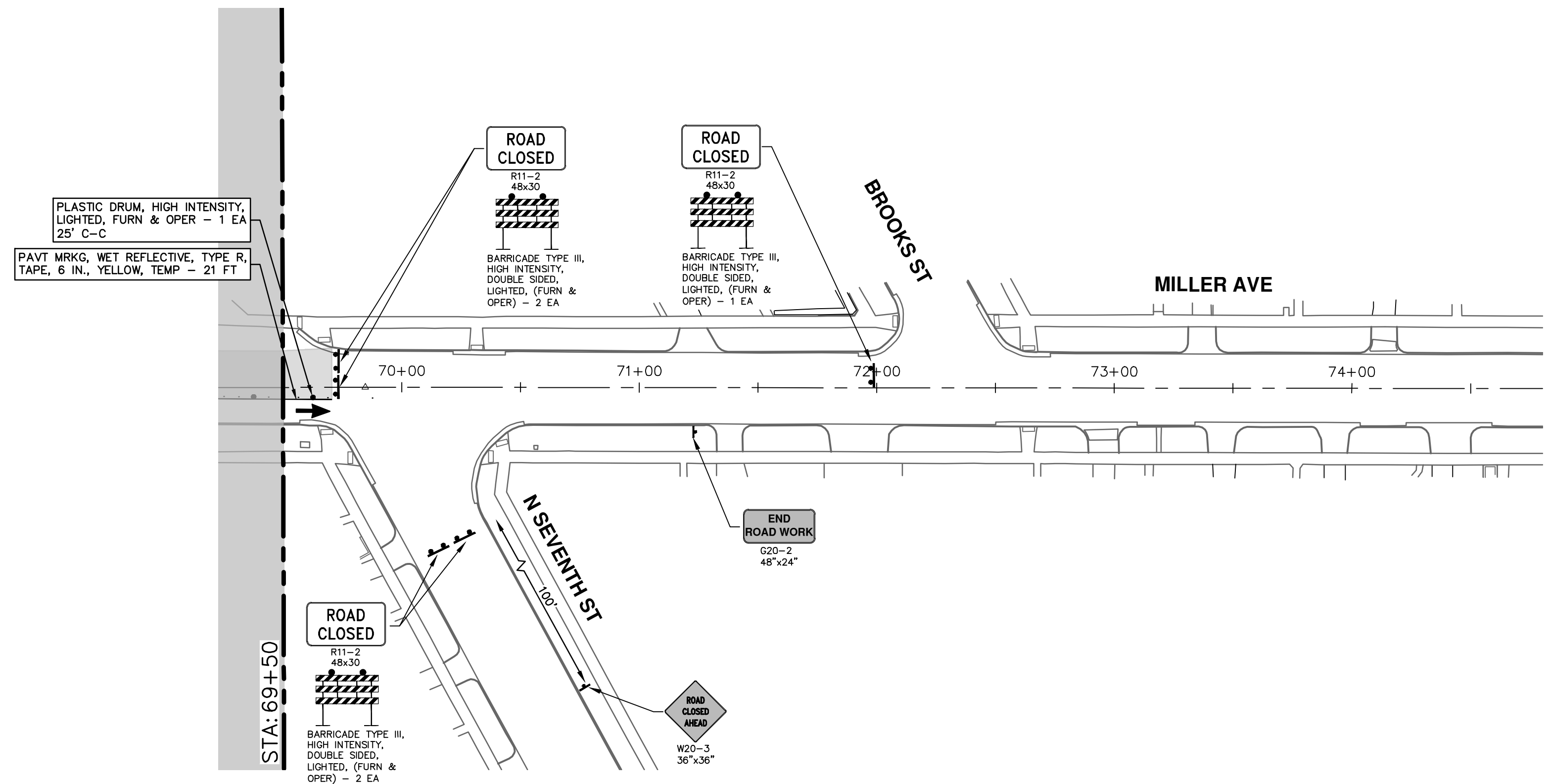
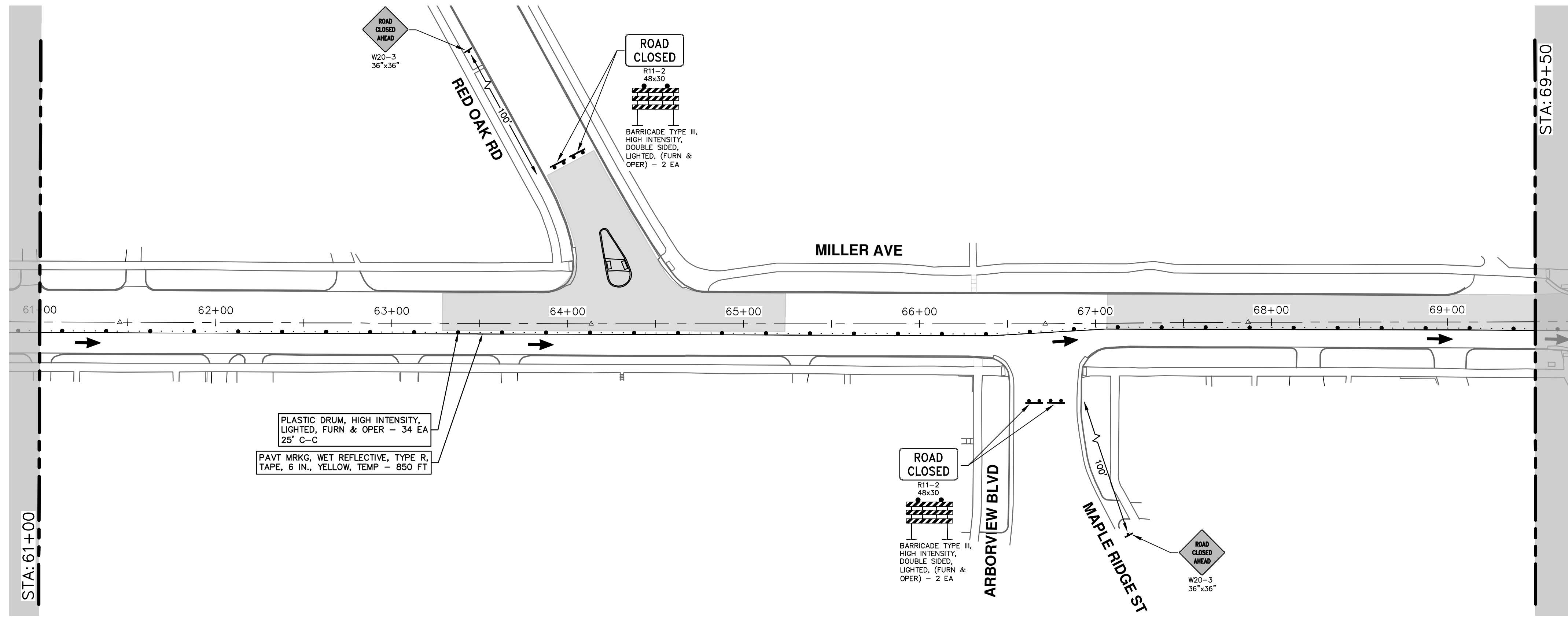
1 P.O.B. - STA. 61+00

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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| 00 | BID SET | 4-9-24 | AZD | JKA |

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TRAFFIC CONTROL - PHASE I STAGE II (WATER MAIN)

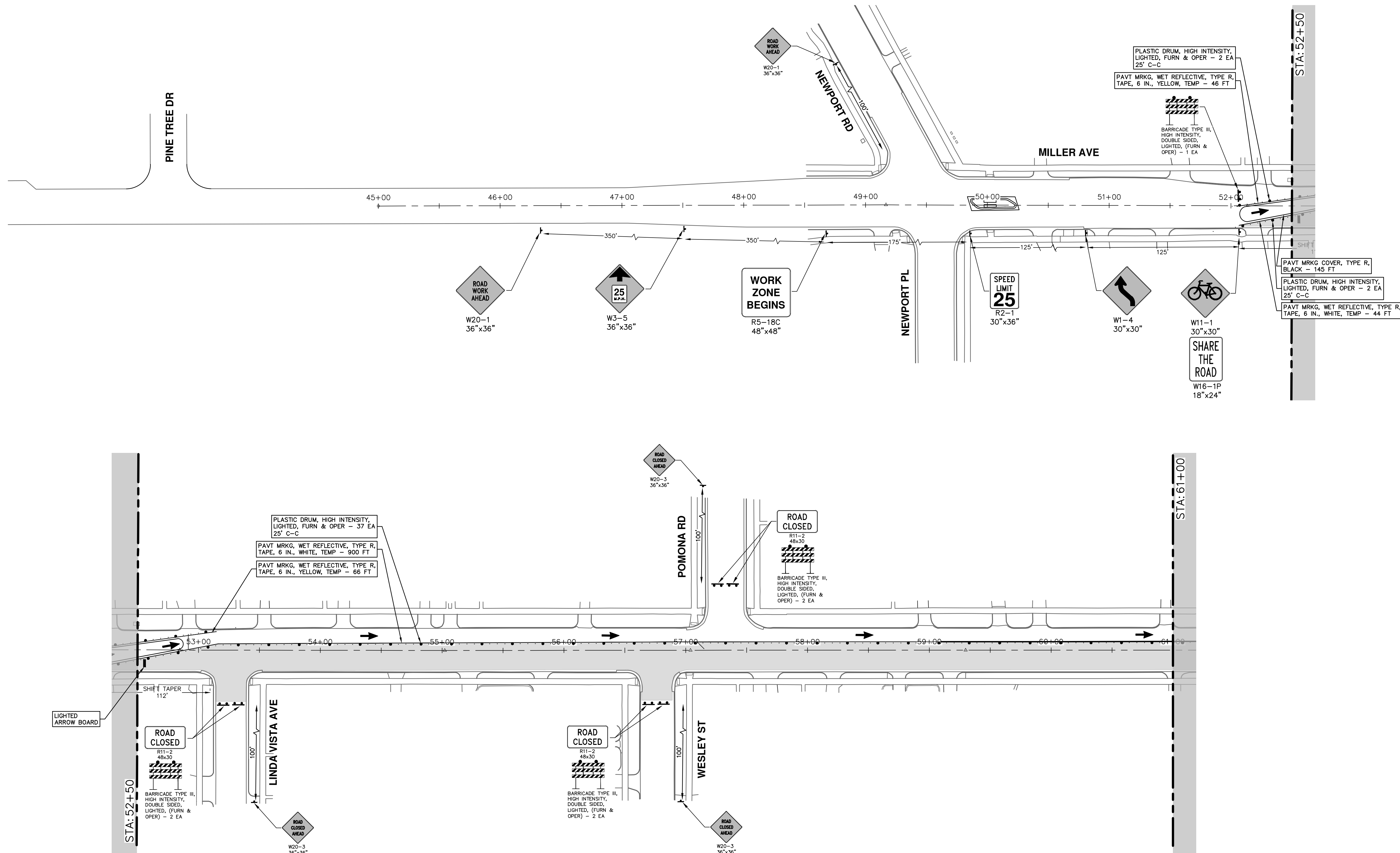
SCALE: 1" = 40'
DRAWING No. 2022034-27

SHEET No. 27 OF 130

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

2 STA. 61+00 - P.O.E.

R:\2022034_Miller Ave Rehab\Plan Production\2022034MtrfA1.dwg Dwg Created: 29-Mar-24 - _o2_standard_bw.stb - Plot Date: 5-Apr-24



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MILLER AVENUE REHABILITATION
 TRAFFIC CONTROL - PHASE I STAGE III (WATER MAIN)

SCALE: 1" = 40'
 DRAWING No. 2022034-28

1 P.O.B. - STA. 61+00

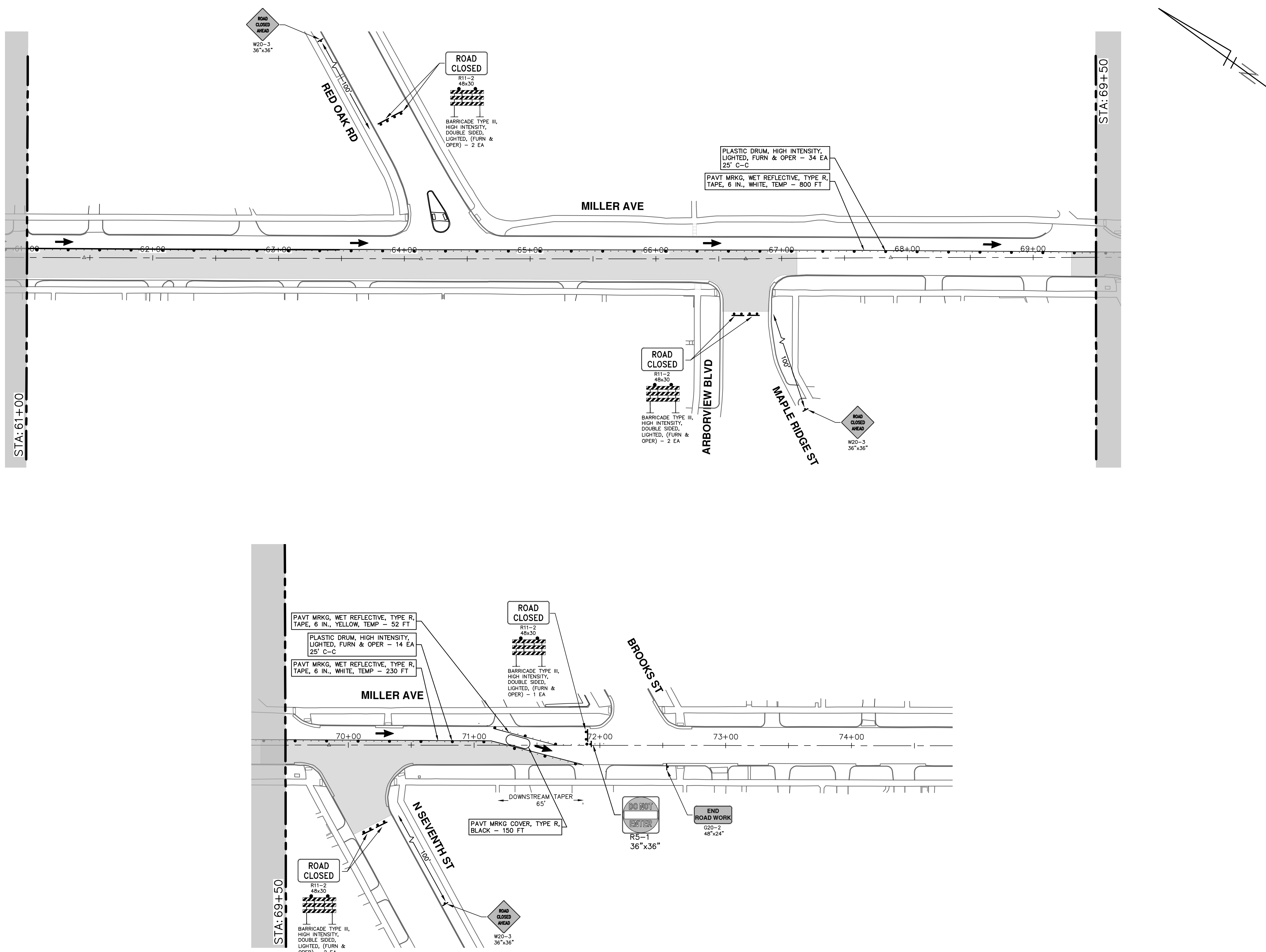
SHEET No. 28 OF 130

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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| 00 | BID SET | 4-9-24 | AZD | JKA |

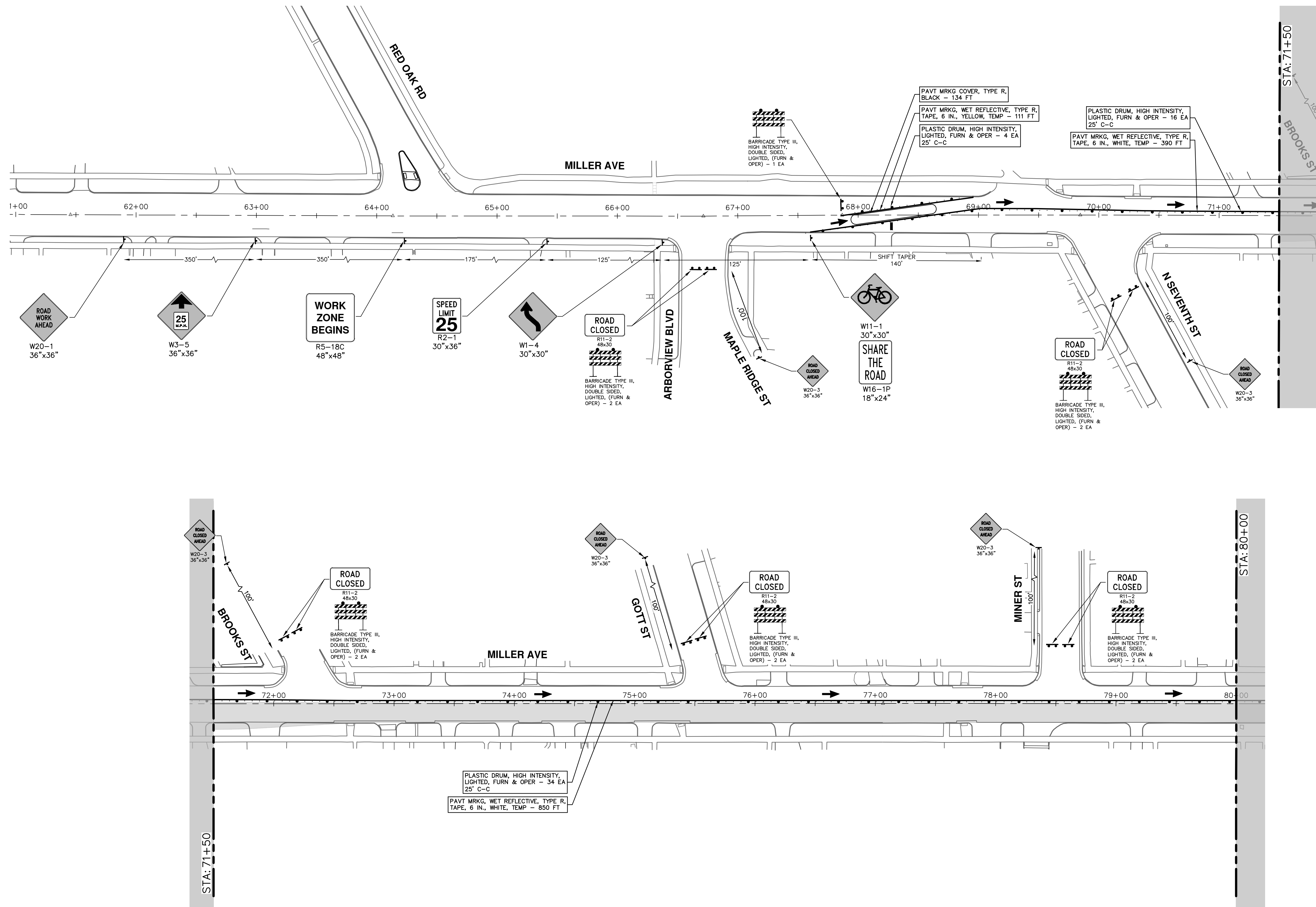
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TRAFFIC CONTROL - PHASE I (STAGE III (WATER MAIN))

SCALE: 1" = 40'
DRAWING No. 2022034-29
2 STA. 61+00 - P.O.E.

R:\2022034_Miller Ave Rehab\Plan Production\2022034M1r1C.dwg Dwg Created: 29-Mar-24 - _a2_standard_bw.stb - Plot Date: 5-Apr-24



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TRAFFIC CONTROL - PHASE II STAGE I (WATER MAIN)

1 P.O.B. - STA. 80+00

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|------|-------------|--------|-------|---------|
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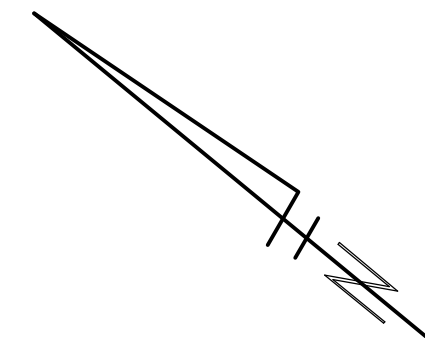
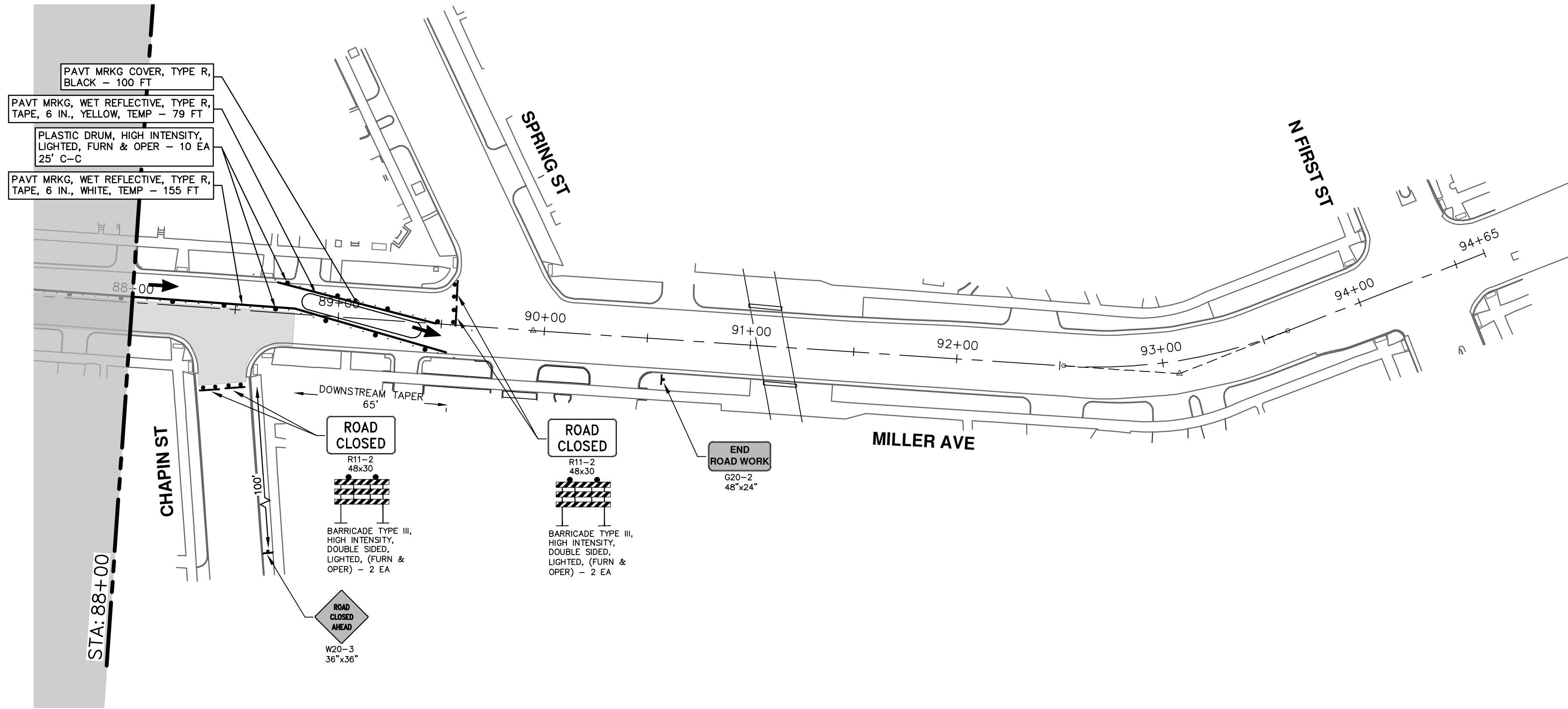
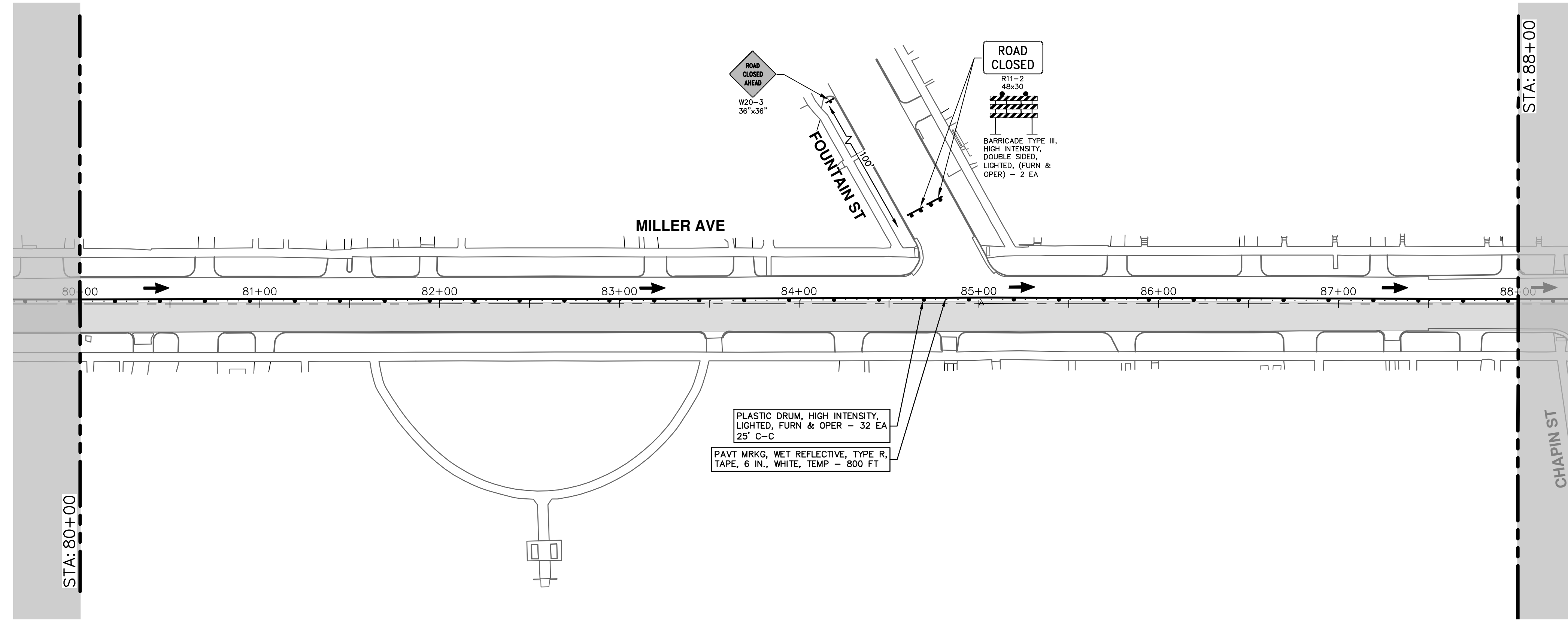
CITY OF ANN ARBOR MICHIGAN

SCALE: 1" = 40'

DRAWING No. 2022034-30

SHEET No. 30 OF 130

R:\2022034_Miller Ave Rehab\Plan Production\2022034Mtrf1C.dwg Dwg Created: 29-Mar-24 - _a2_standard_bw.stb - Plot Date: 5-Apr-24



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|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

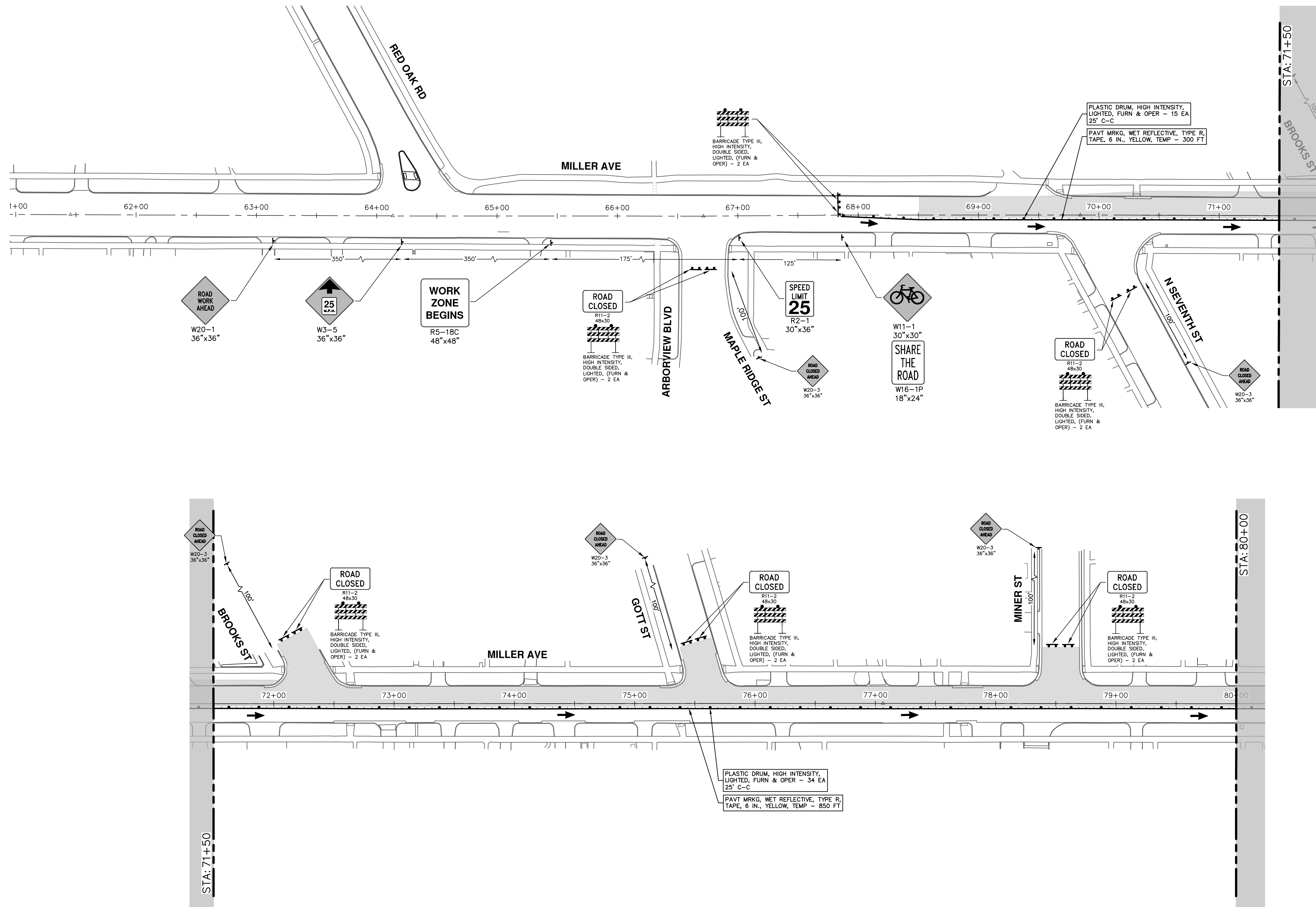
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TRAFFIC CONTROL - PHASE II STAGE I (WATER MAIN)
2 STA. 80+00 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2022034-31

SHEET No. 31 OF 130

R:\2022034_Miller_Ave_Rehab\Plan Production\2022034M1r1d.dwg Dwg Created: 29-Mar-24 - _a2_standard_bw.stb - Plot Date: 5-Apr-24



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MILLER AVENUE REHABILITATION

TRAFFIC CONTROL - PHASE II STAGE II (WATER MAIN)

SCALE: 1" = 40'

DRAWING No. 2022034-32

SHEET No. 32 OF 130

1 P.O.B. - STA. 80+00

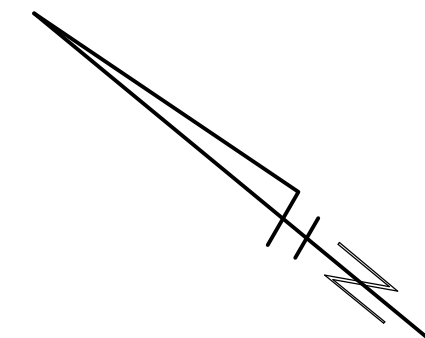
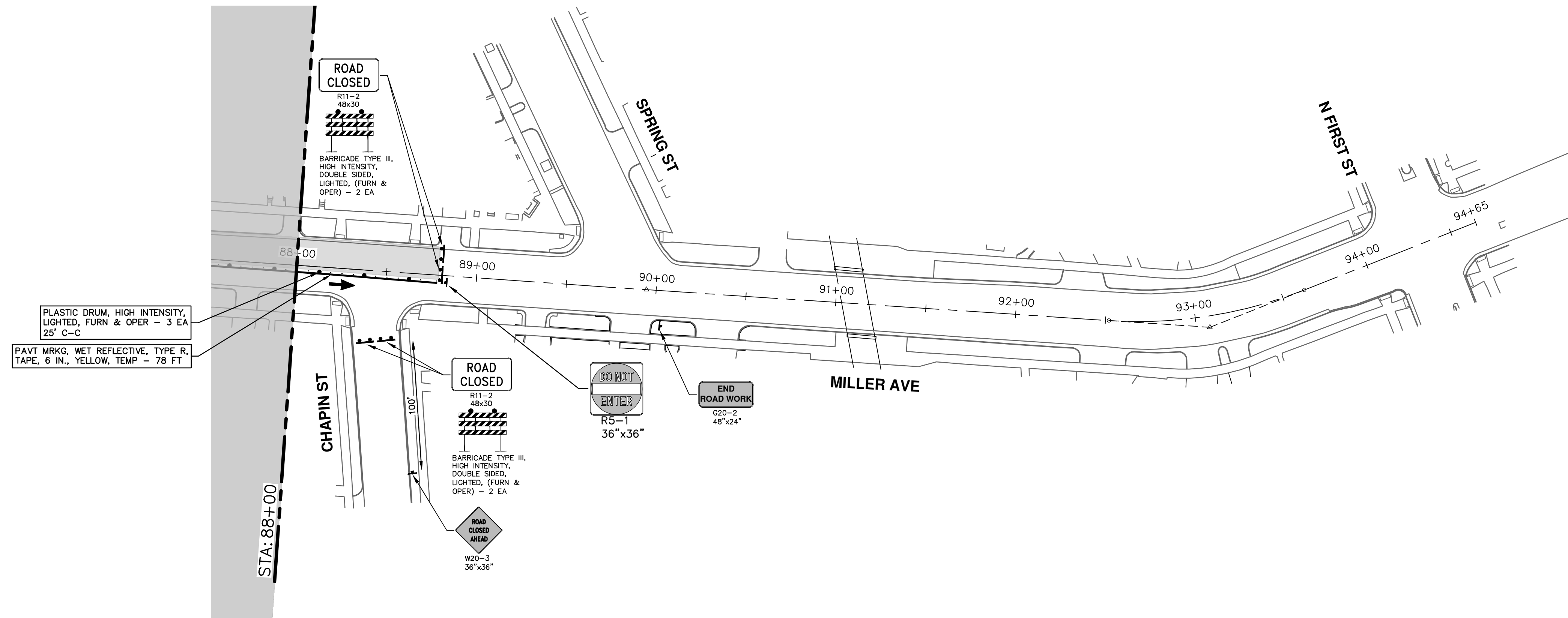
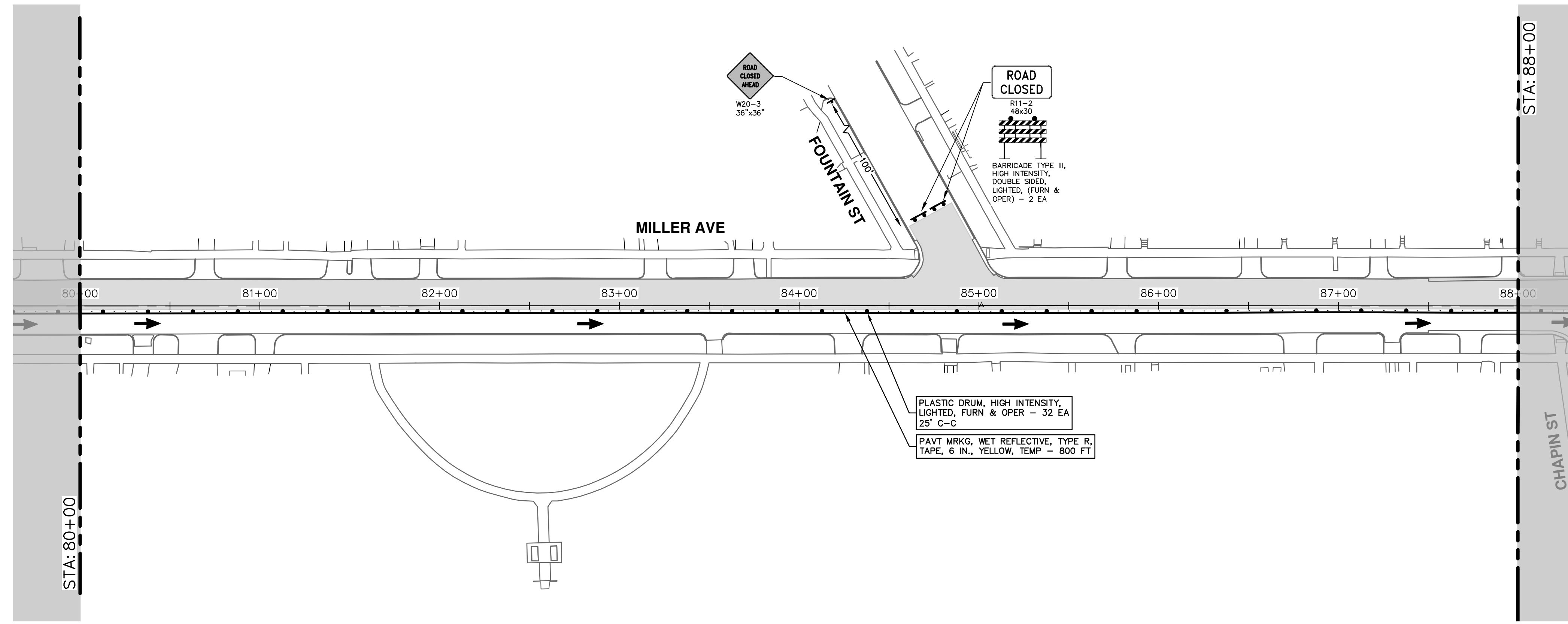
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|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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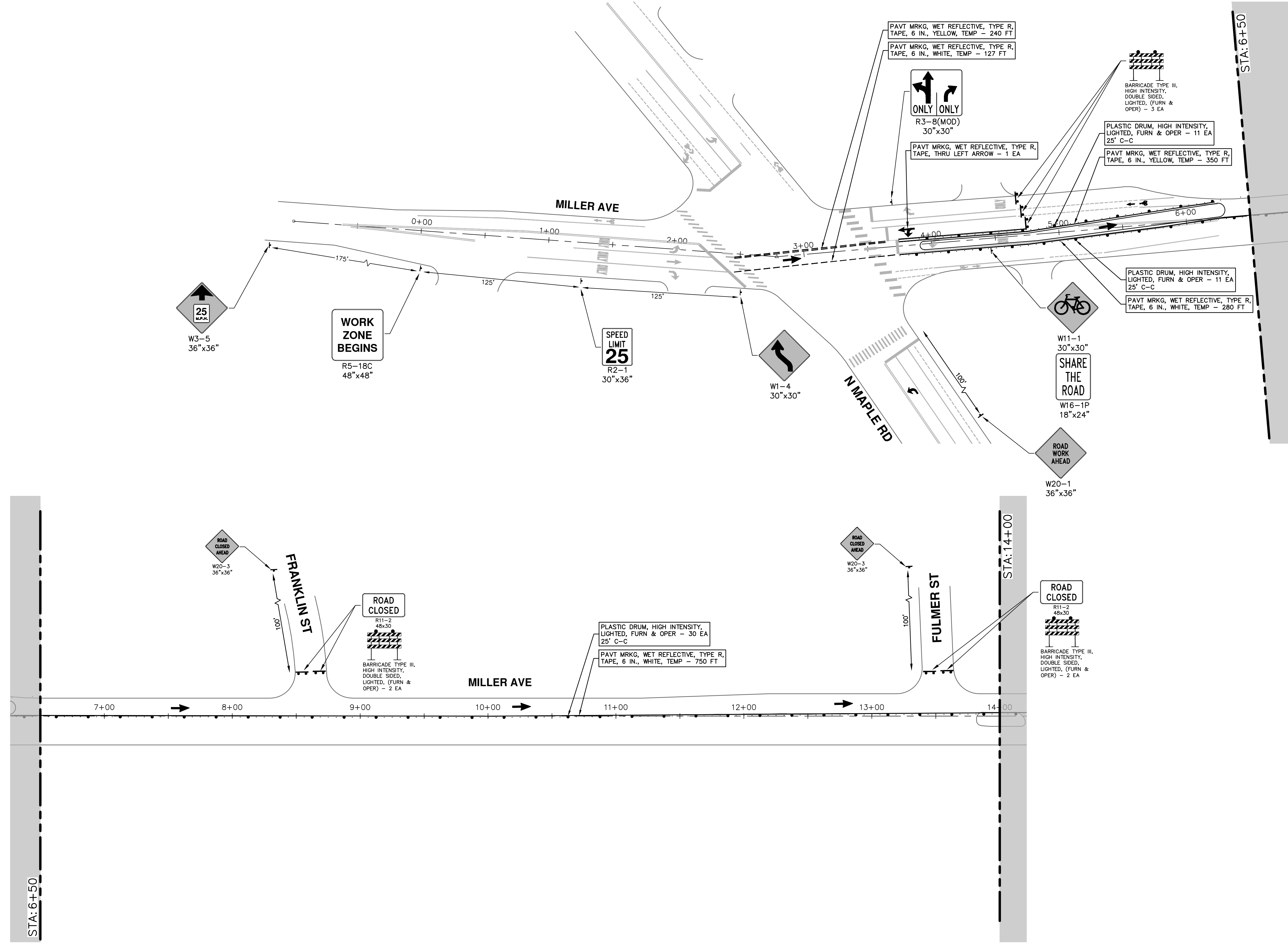
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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TRAFFIC CONTROL - PHASE II STAGE II (WATER MAIN)
2 STA. 80+00 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2022034-33
SHEET No. 33 OF 130

R:\2022034_Miller_Ave_Rehab\Plan Production\2022034M1r1E.dwg Dwg Created: 29-Mar-24 - _a2_standard_bw.stb - Plot Date: 5-Apr-24



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MILLER AVENUE REHABILITATION

TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

SCALE: 1" = 40'

DRAWING No. 2022034-34

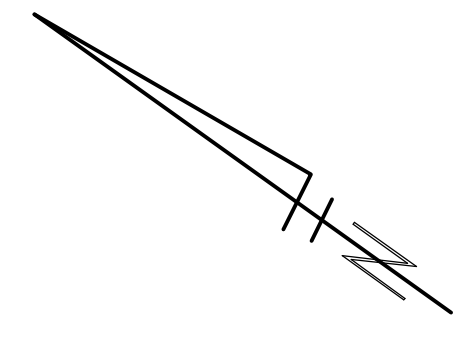
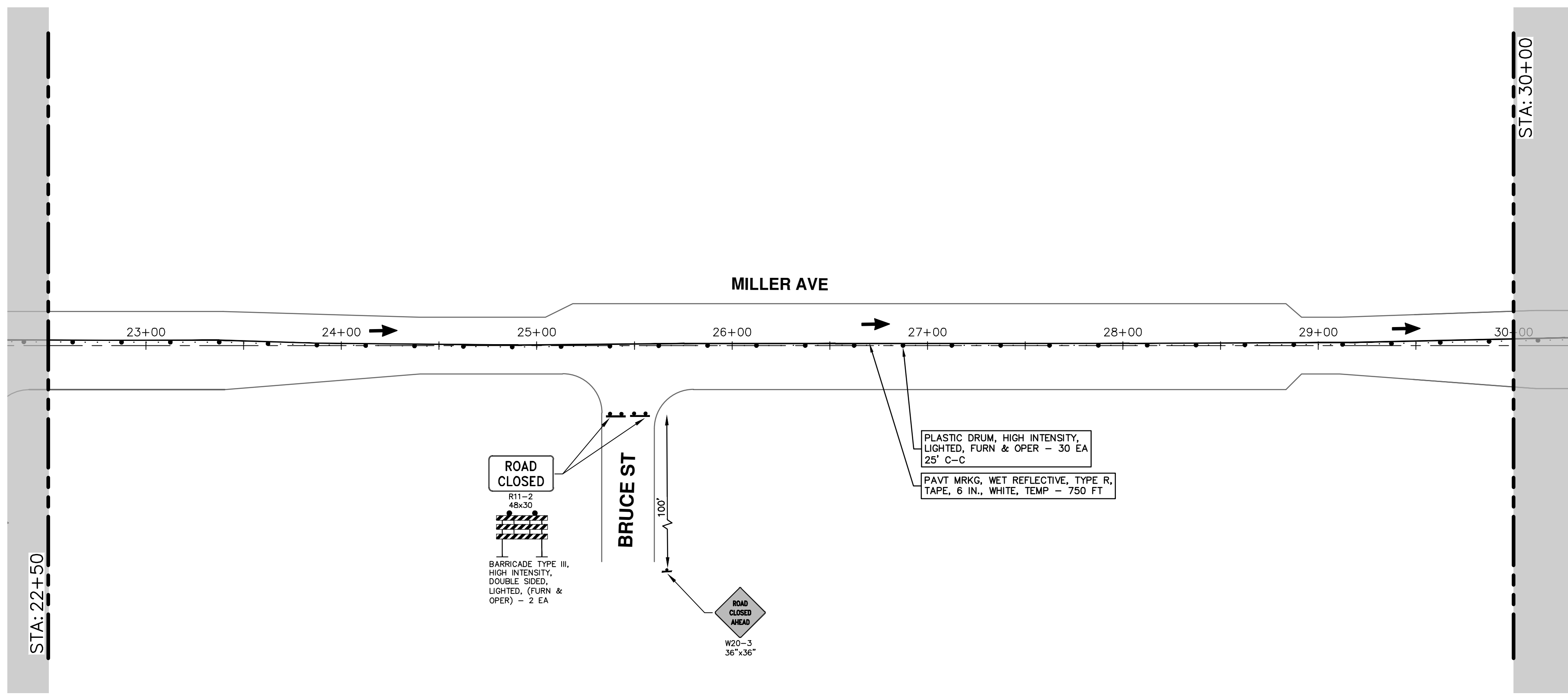
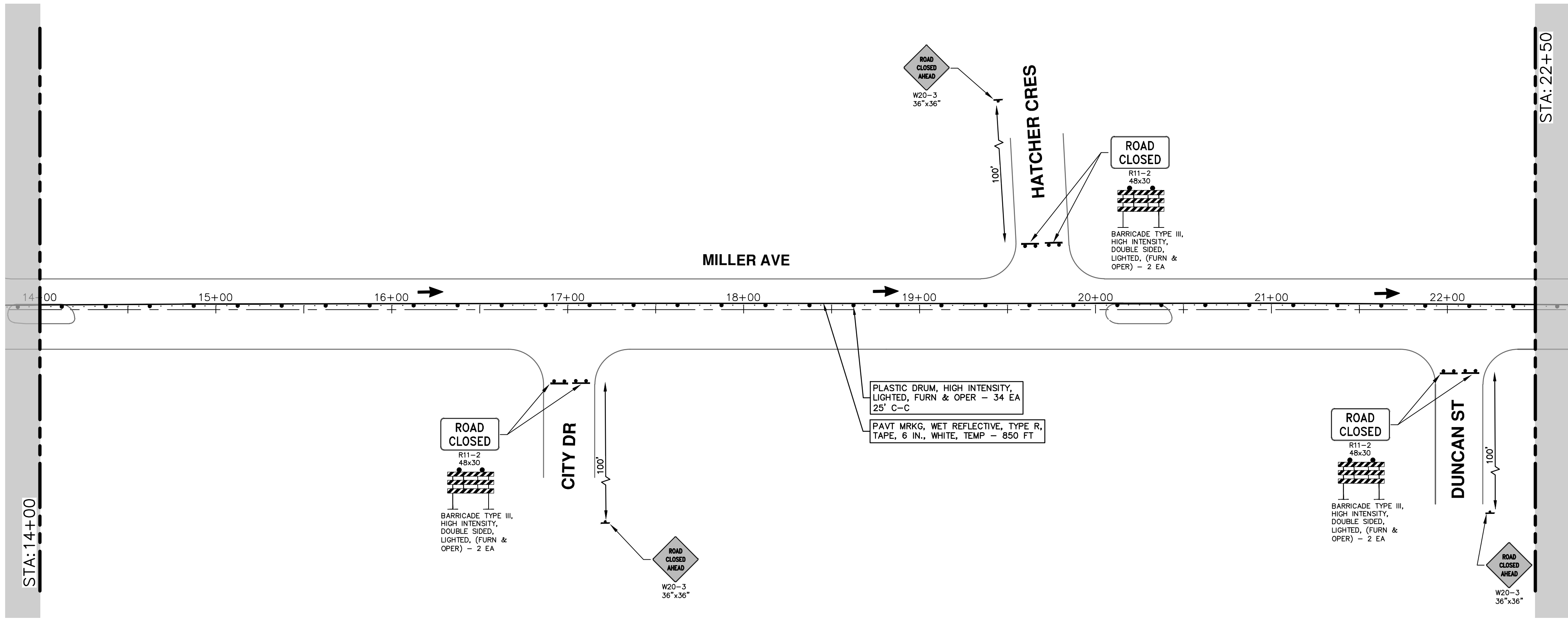
SHEET No. 34 OF 130

P.O.B. - STA. 14+00

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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MILLER AVENUE REHABILITATION
 TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

SCALE: 1" = 40'

DRAWING No. 2022034-35

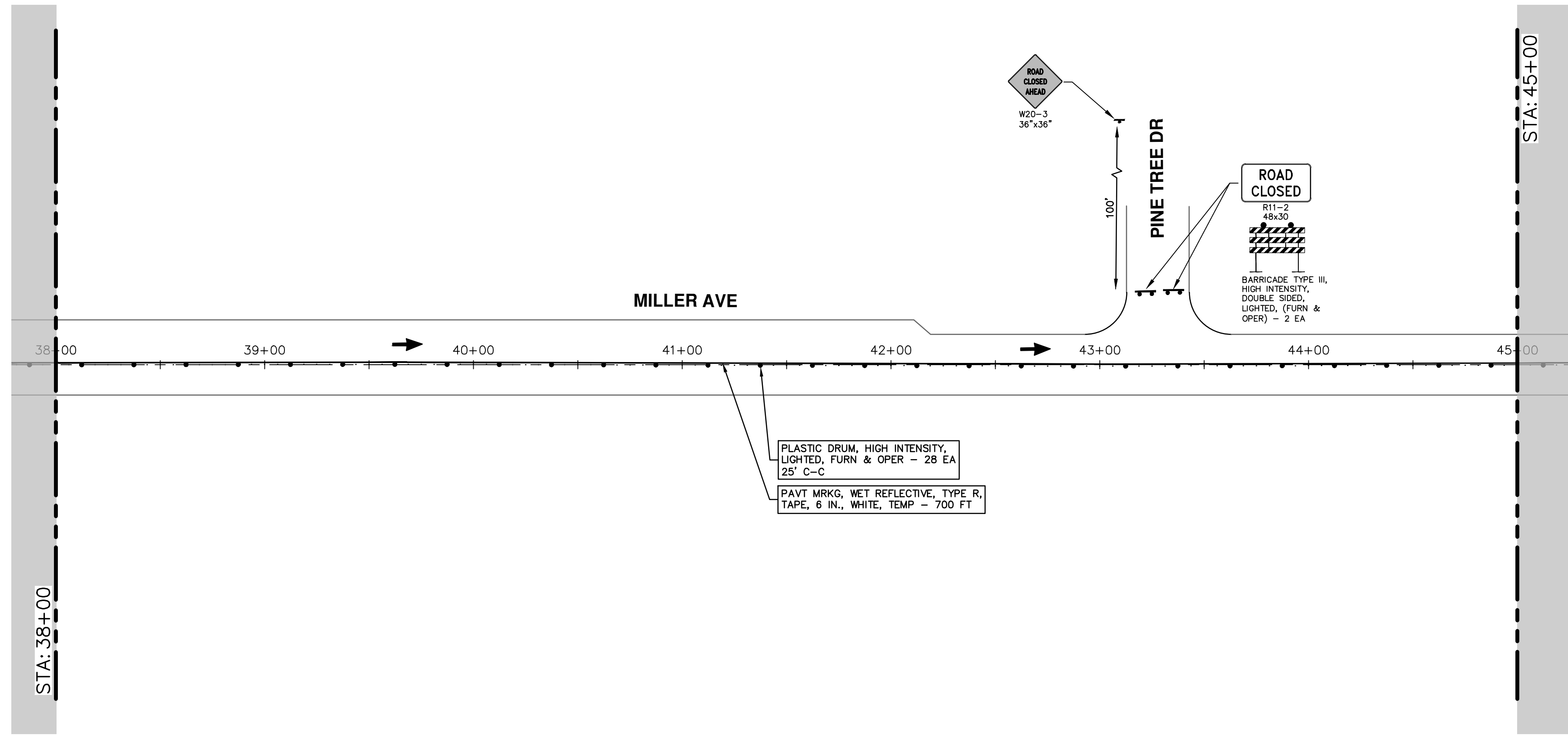
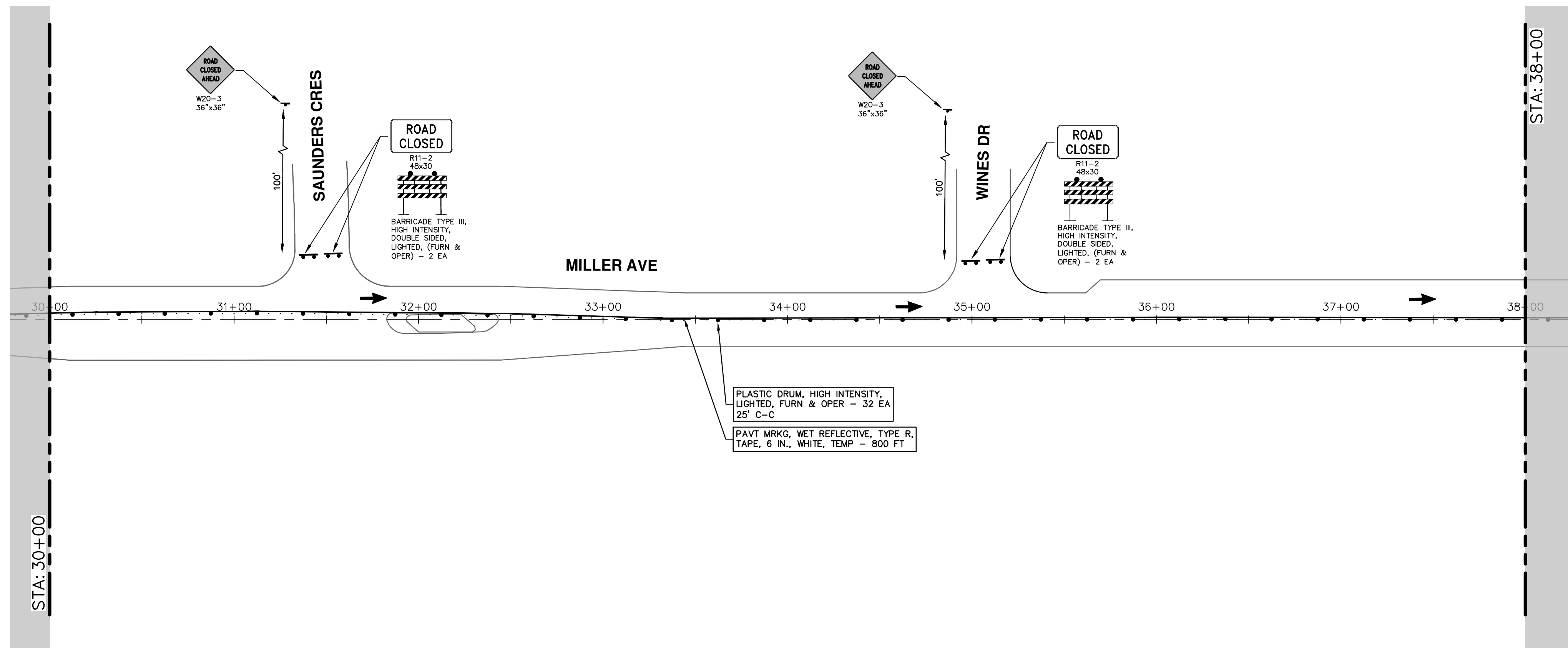
SHEET No. 35 OF 130

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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PLASTIC DRUM, HIGH INTENSITY,
LIGHTED, FURN & OPER - 32 EA
25' C-C

PAVT MRKG, WET REFLECTIVE, TYPE R,
TAPE, 6 IN., WHITE, TEMP - 800 FT

PLASTIC DRUM, HIGH INTENSITY,
LIGHTED, FURN & OPER - 28 EA
25' C-C

PAVT MRKG, WET REFLECTIVE, TYPE R,
TAPE, 6 IN., WHITE, TEMP - 700 FT



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MILLER AVENUE REHABILITATION
TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

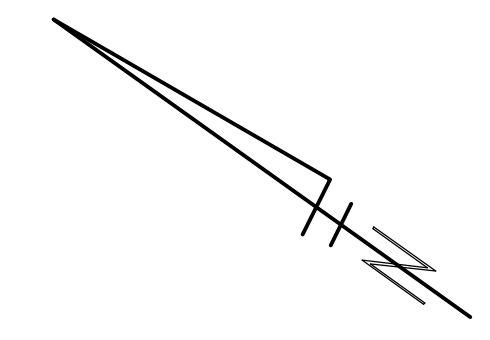
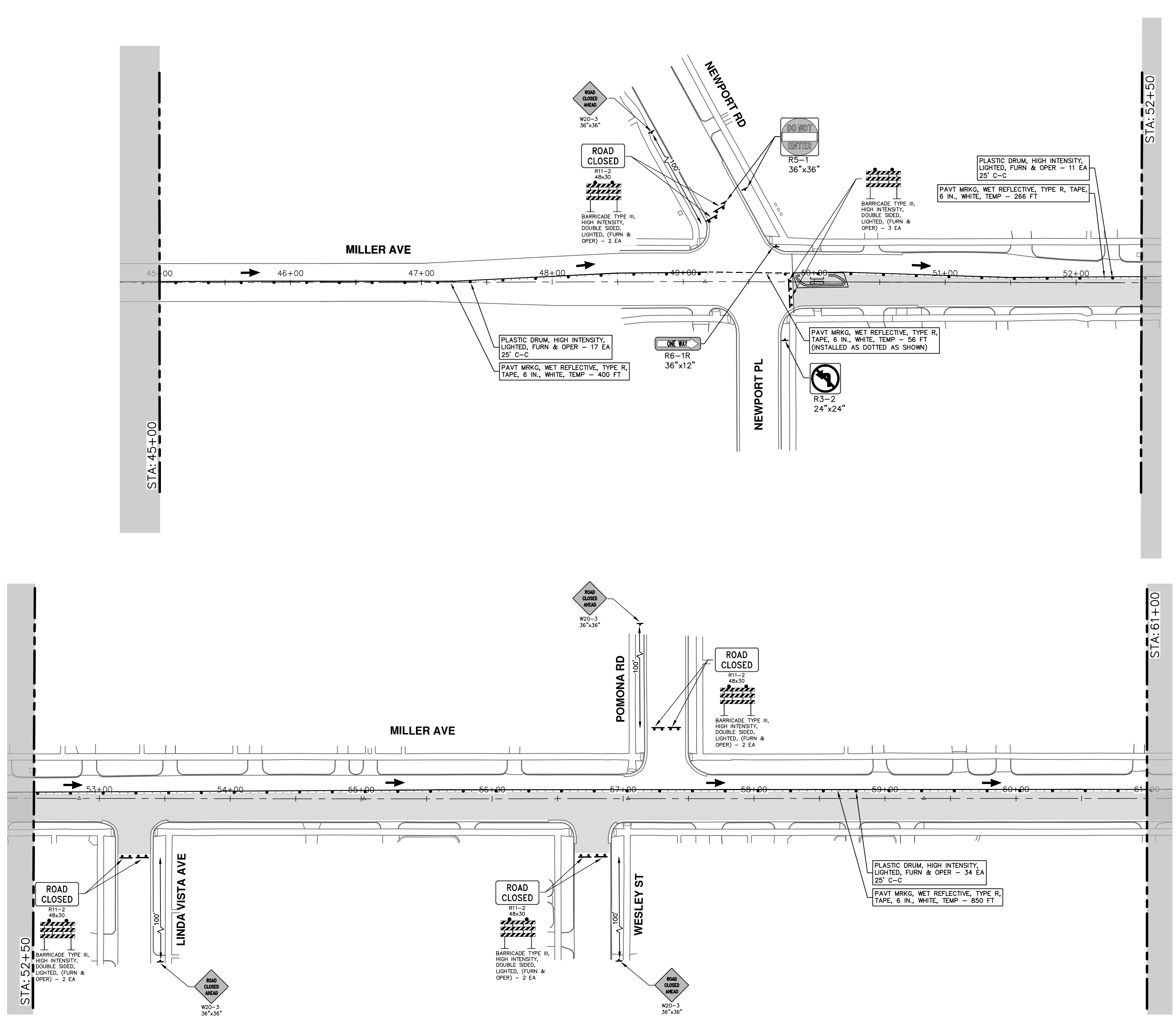
SCALE: 1" = 40'
DRAWING No.
2022034-36

SHEET No.

36 OF 130

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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MILLER AVENUE REHABILITATION

TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

SCALE: 1" = 40'

DRAWING No. 2022034-37

SHEET No. 37 OF 130

STA. 45+00 - STA. 61+00

STA. 52+50

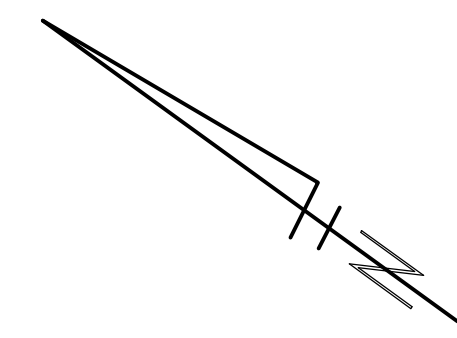
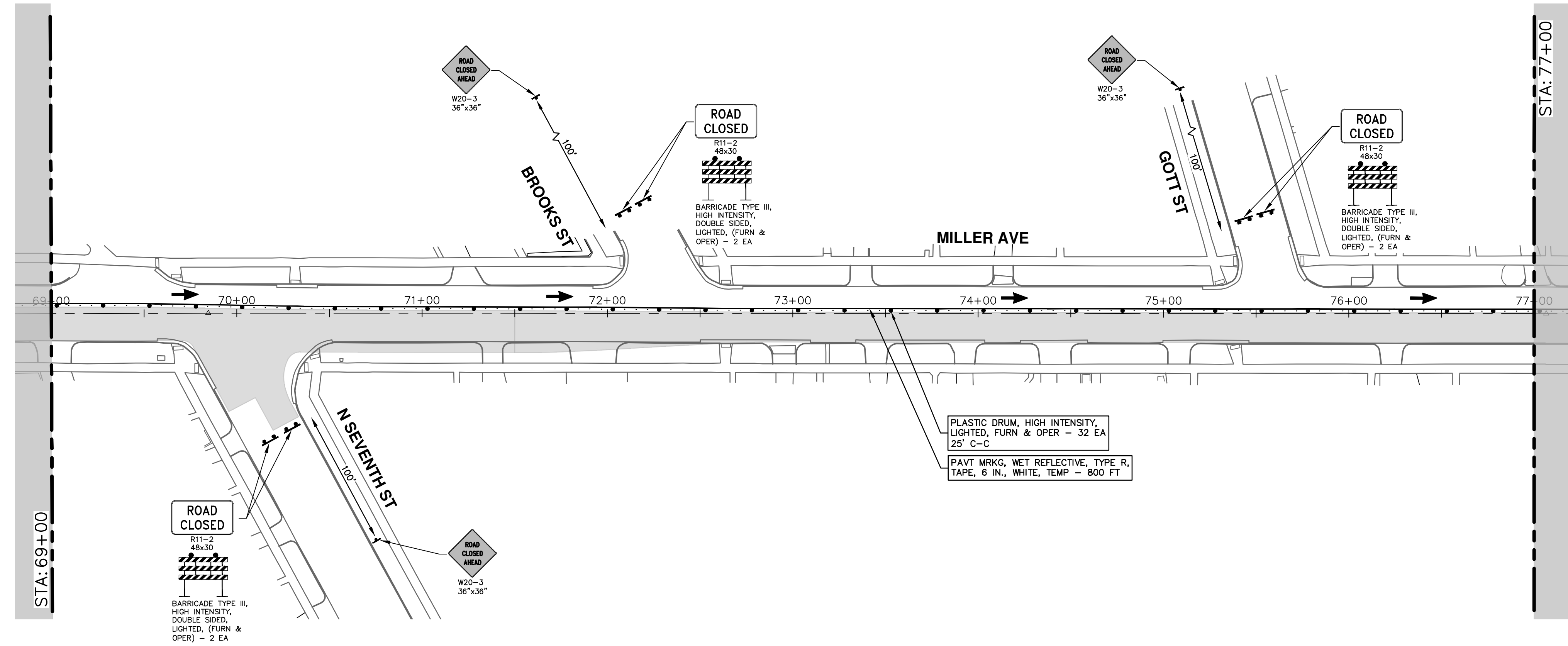
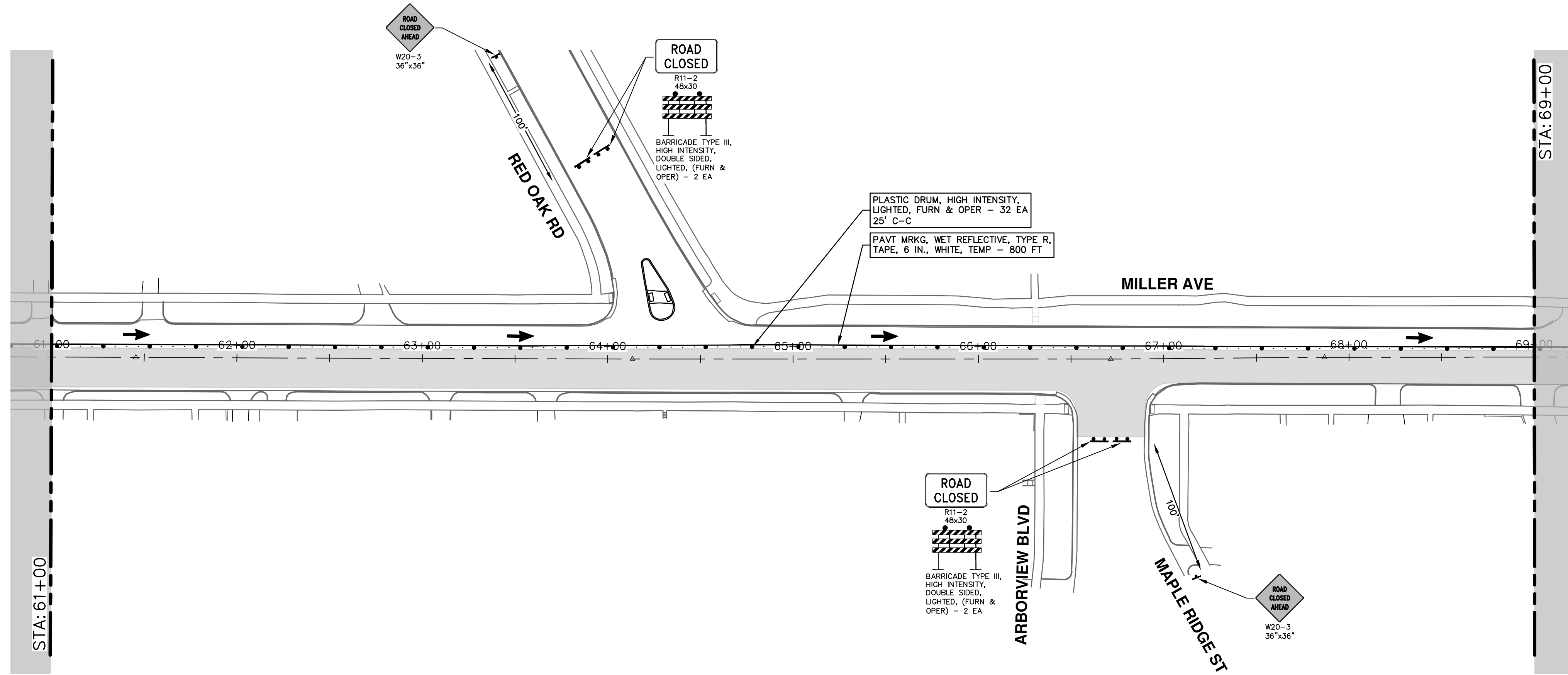
STA. 61+00

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| 00 | BID SET | 4-9-24 | AZD | JKA |

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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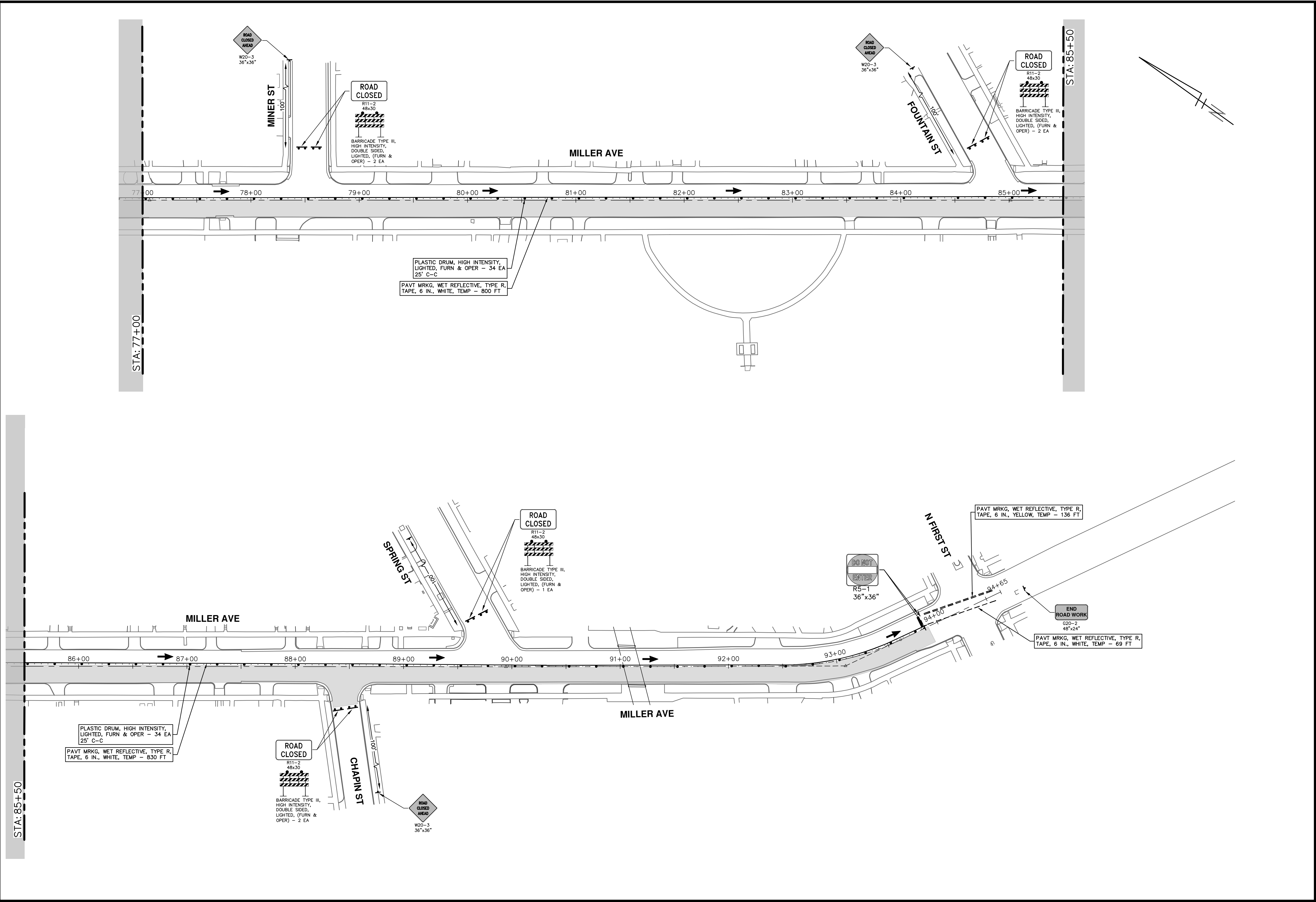
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MILLER AVENUE REHABILITATION
TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

SCALE: 1" = 40'
DRAWING No. 2022034-38

R:\2022034_Miller Ave Rehab\Plan Production\2022034M1r1E.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



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MILLER AVENUE REHABILITATION
 TRAFFIC CONTROL - PHASE II STAGE III (CYCLE TRACK)

SCALE: 1" = 40'

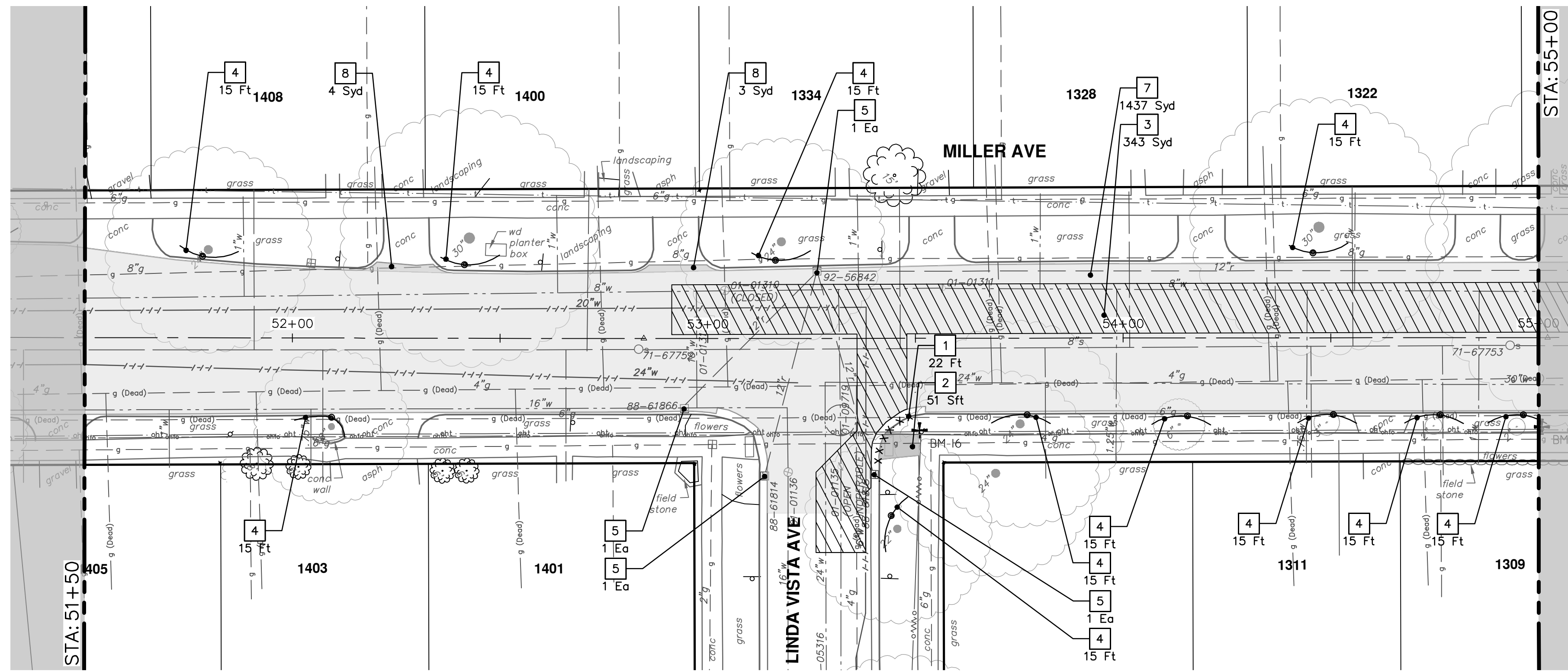
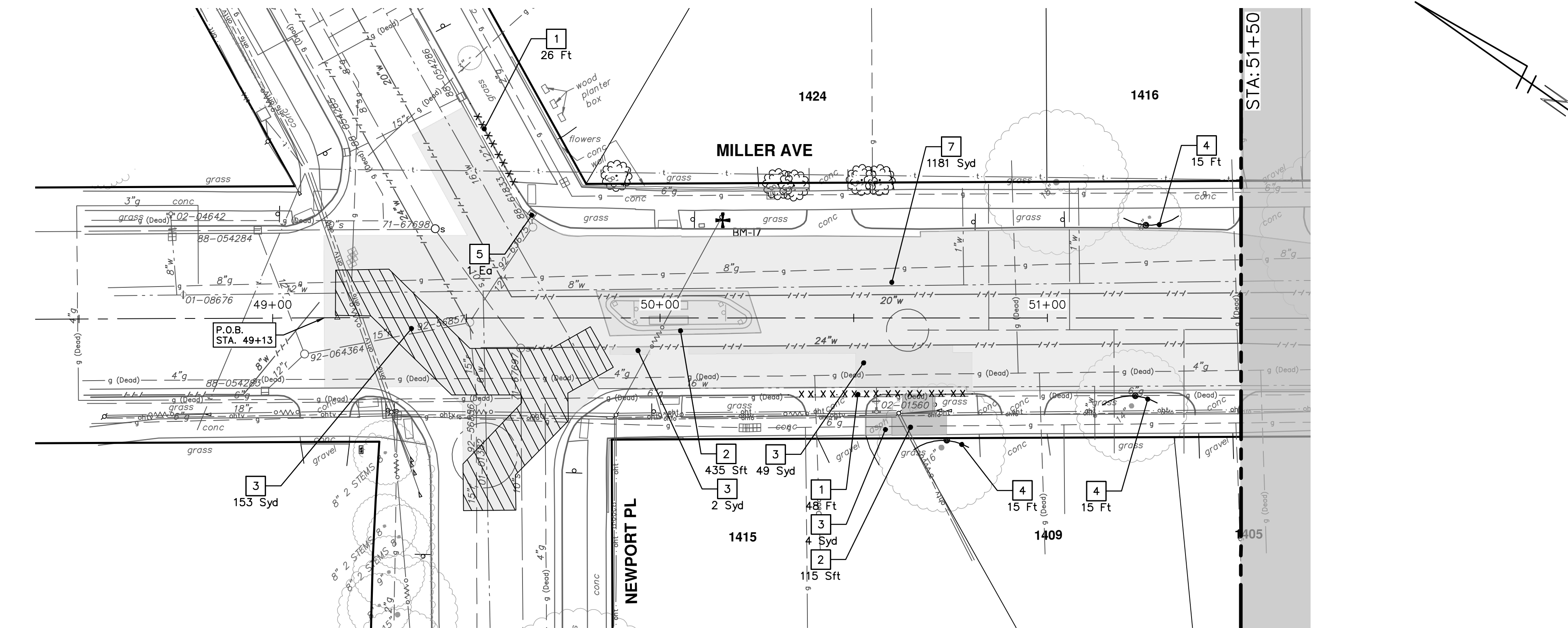
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SHEET No. 39 OF 130

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|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AJD | JKA |



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 in. |
| 6B | Tree, Rem, 13 in. - 19 in. |
| 6C | Tree, Rem, 20 in. - 29 in. |
| 6D | Tree, Rem, 40 in. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION REMOVALS

STATION: STA. 49+13 - STA. 55+00


DRAWING No. 2022034-40

SHEET No. 40 OF 130

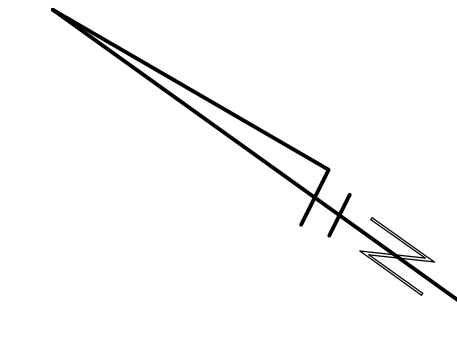
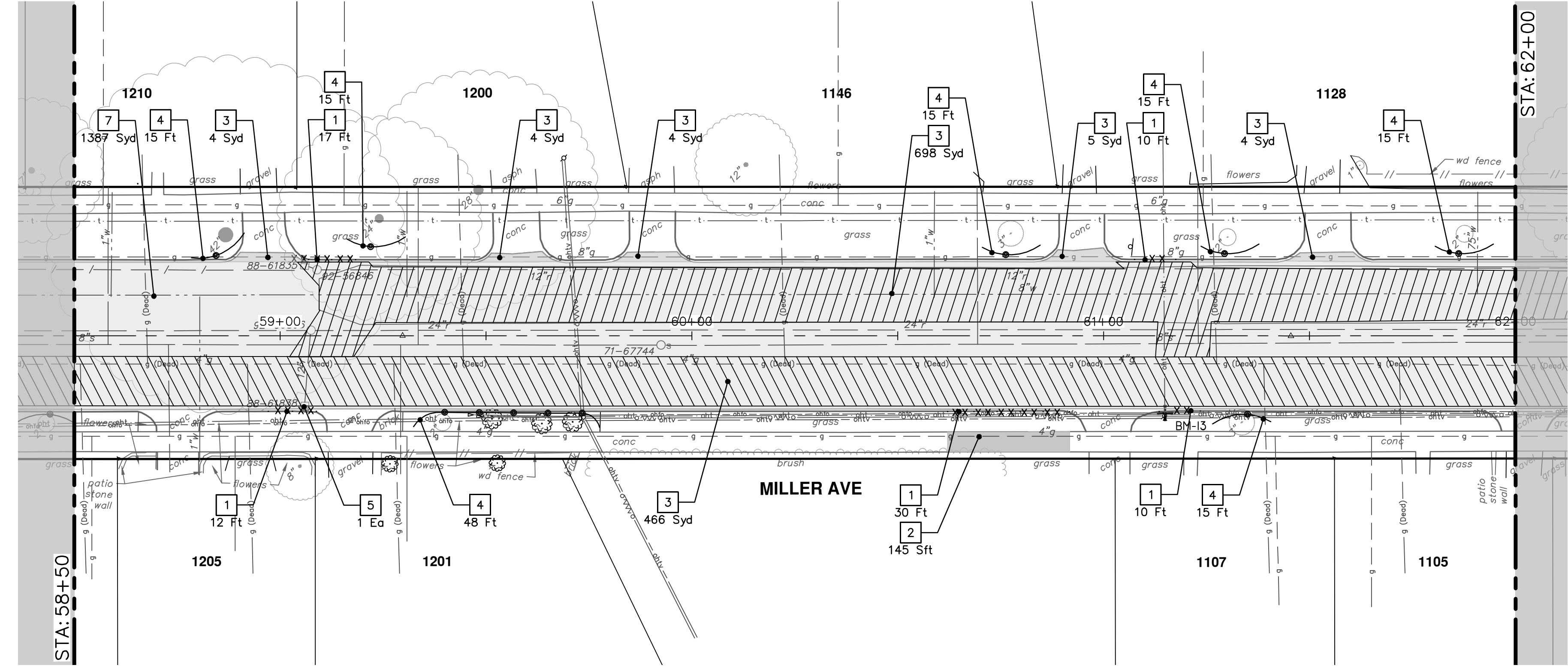
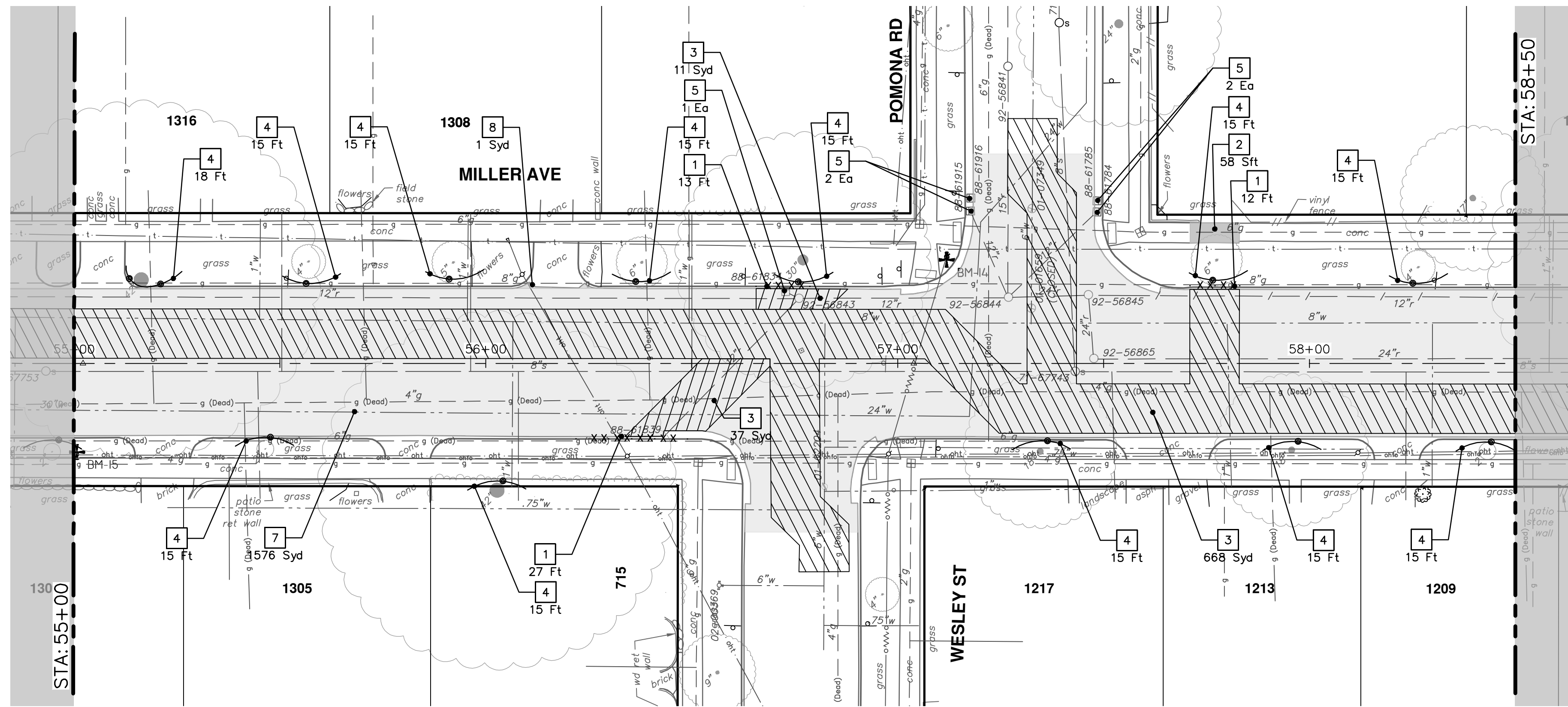


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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
ANN ARBOR: 734.794.4410
WWW.A2GOV.ORG

| | | |
|---------|-------------|------|
| DATE | DESCRIPTION | REV. |
| 4-9-24 | | 00 |
| AZD | DRAWN | JKA |
| CHECKED | | |



Know what's below.
Call Before you dig.



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 in. |
| 6B | Tree, Rem, 13 in. - 19 in. |
| 6C | Tree, Rem, 20 in. - 29 in. |
| 6D | Tree, Rem, 40 in. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



| | | | |
|-------|--------|-------------|-----|
| DATE | 4-9-24 | DESCRIPTION | |
| DRAWN | AZD | CHECKED | JKA |

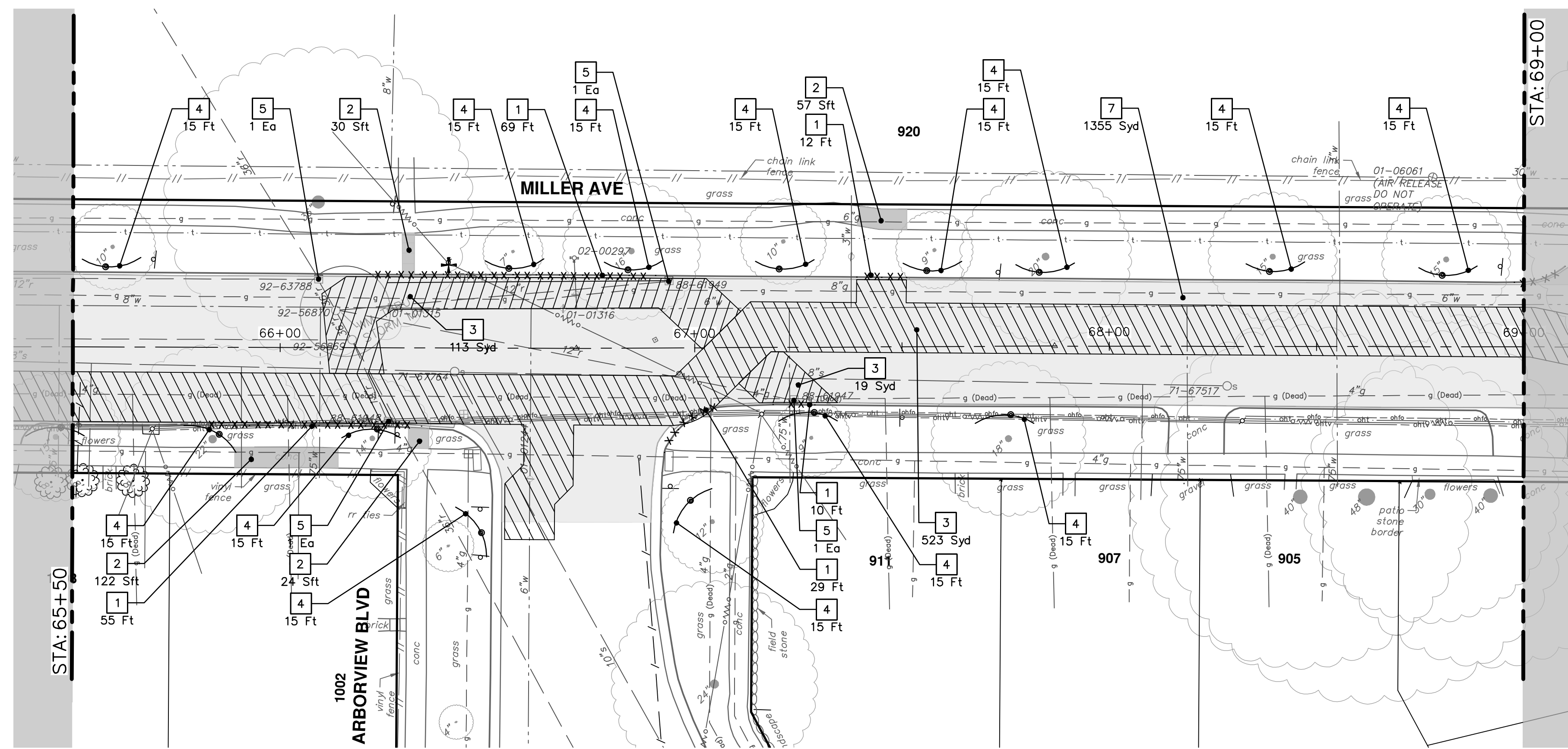
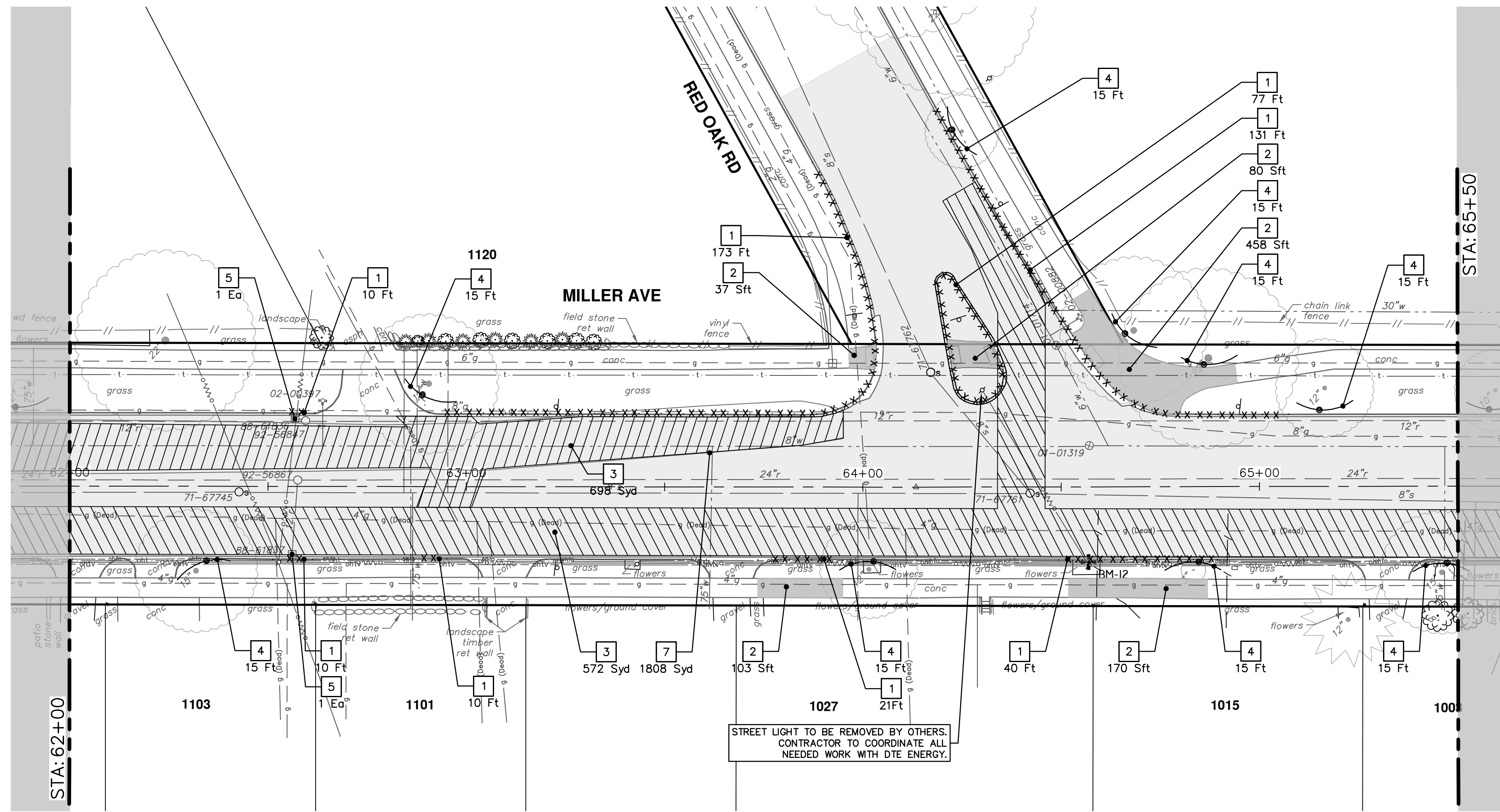
| | | | |
|------|----|---------|--|
| REV. | 00 | BID SET | |
|------|----|---------|--|

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
REMOVALS

SHEET No. 41 OF 130
SCALE: 1" = 20'
DRAWING No. 2022034-41



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 in. |
| 6B | Tree, Rem, 13 in. - 19 in. |
| 6C | Tree, Rem, 20 in. - 29 in. |
| 6D | Tree, Rem, 40 in. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

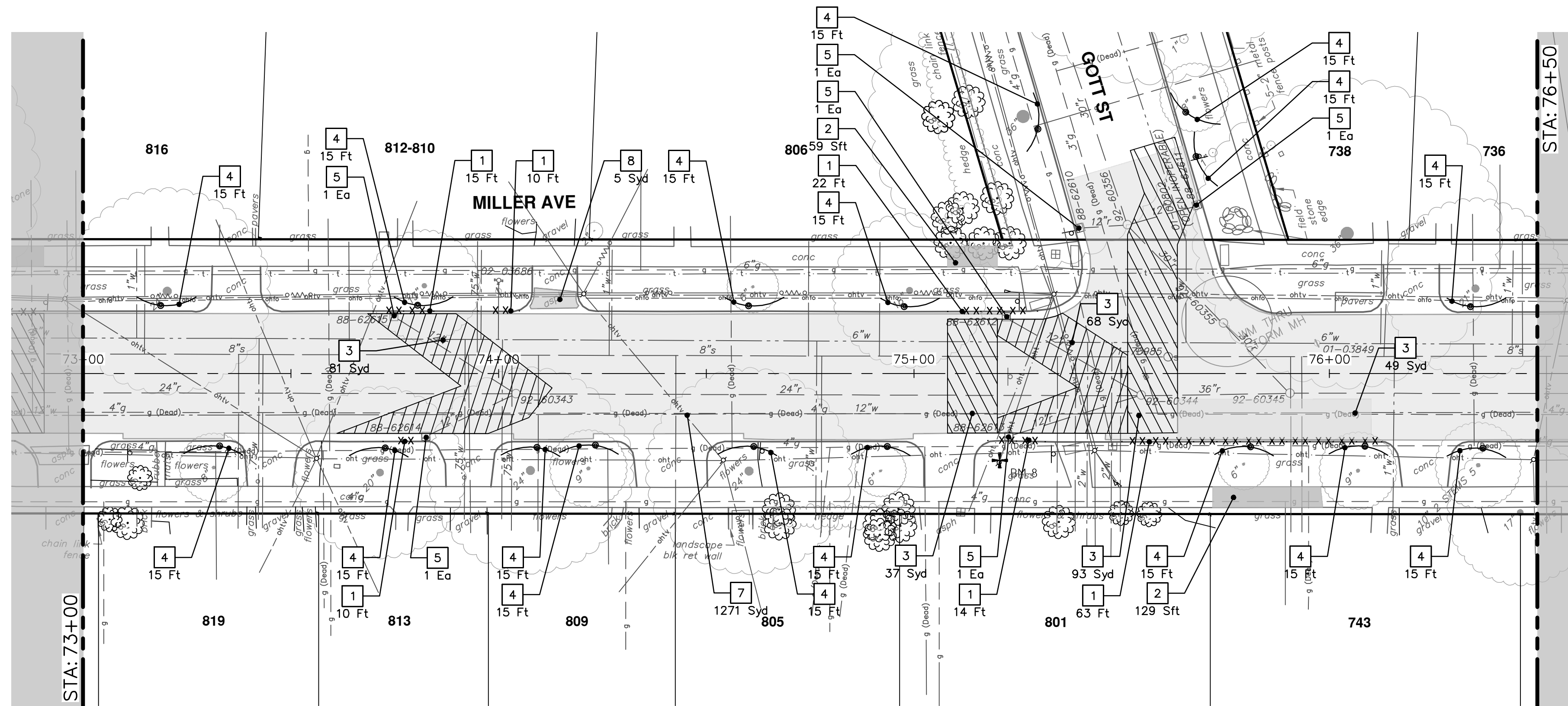
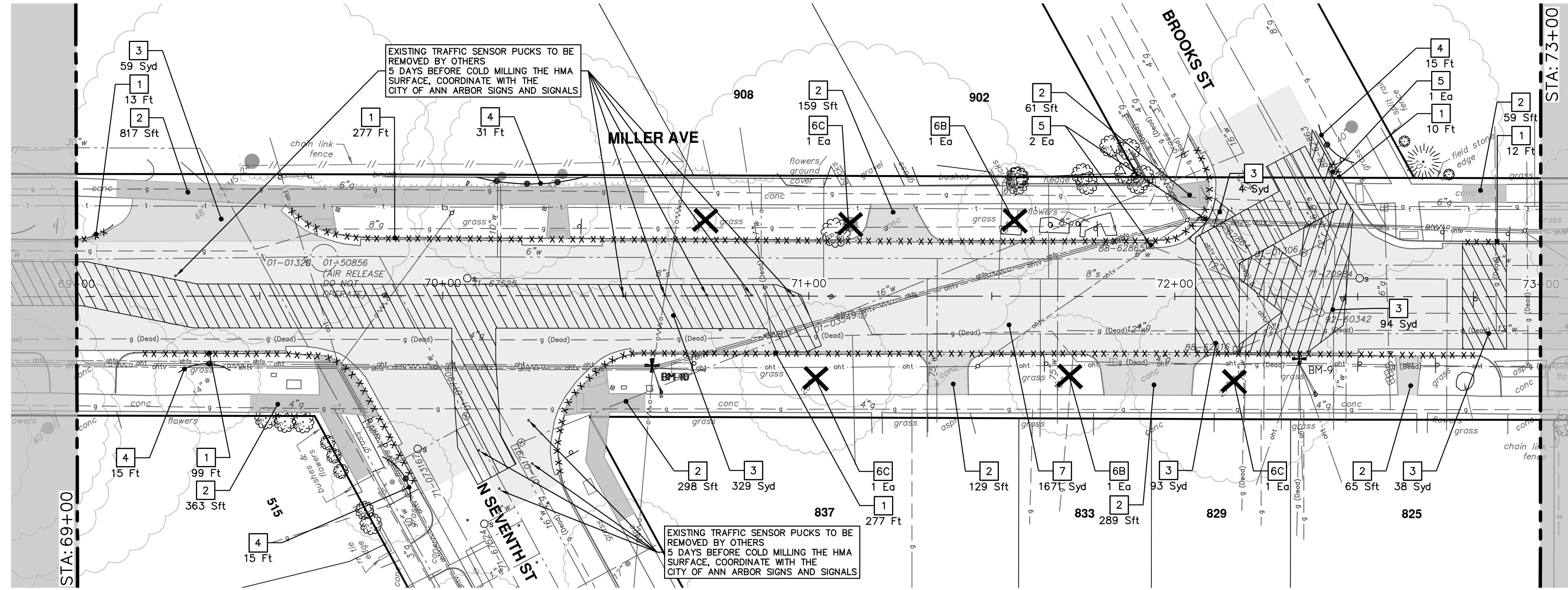


| NO. | DATE | BY | DESCRIPTION |
|--------|------|-----|-------------|
| 4-9-24 | DATE | AZD | DRAWN |
| | | JKA | CHECKED |

CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-1667
 WWW.A2GOV.GOV

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 MILLER AVENUE REHABILITATION
 REMOVALS
 STA. 62+00 - STA. 69+00

SCALE: 1" = 20'
 DRAWING No. 2022034-42
 SHEET No. 42 OF 130



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 in. |
| 6B | Tree, Rem, 13 in. - 19 in. |
| 6C | Tree, Rem, 20 in. - 29 in. |
| 6D | Tree, Rem, 40 in. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING


MILLER AVENUE REHABILITATION

REMOVALS

STATION: STA. 69+00 - STA. 76+50

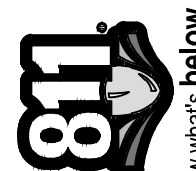
DRAWING No. 2022034-43

SHEET No. 43 OF 130

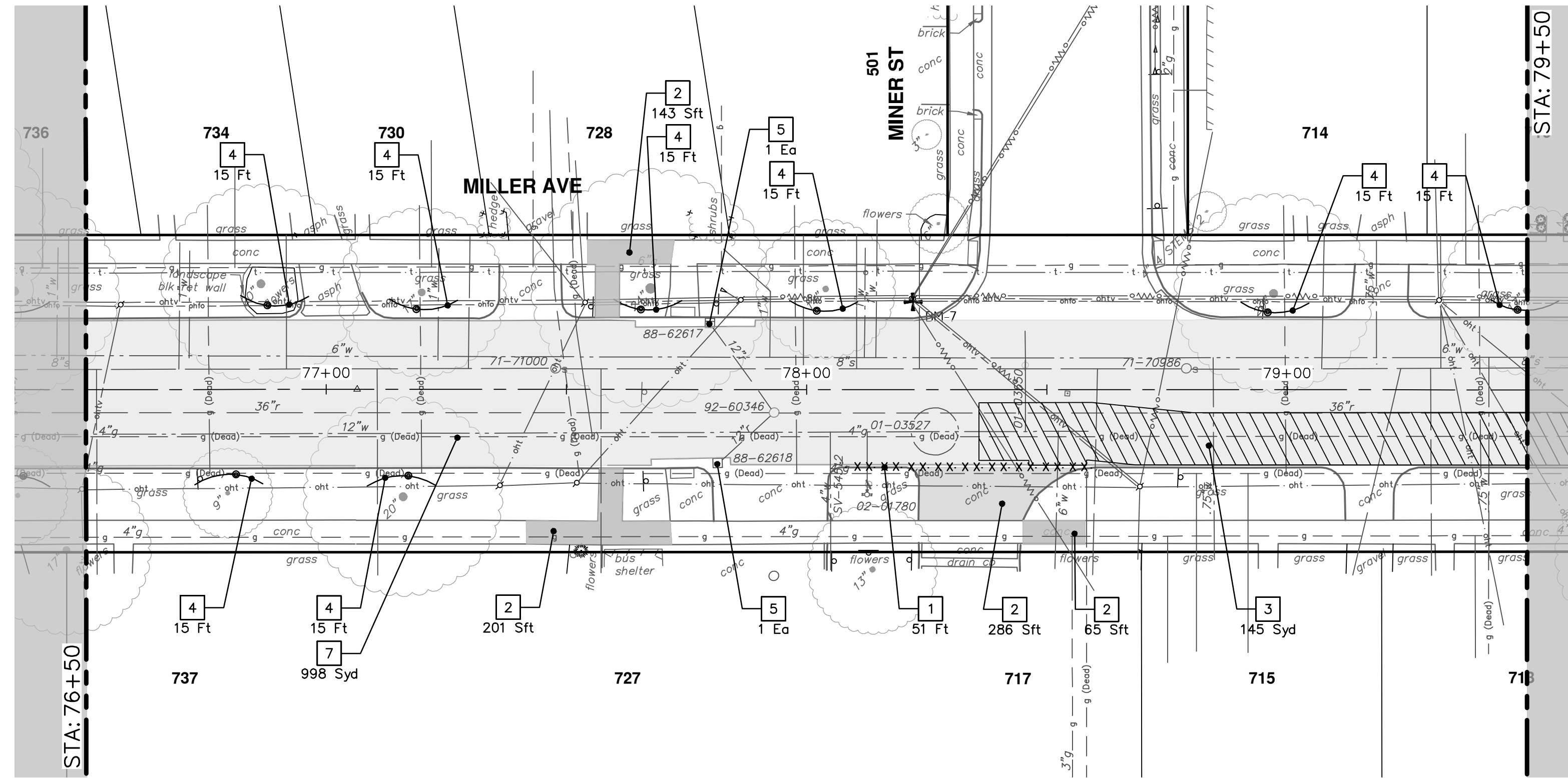
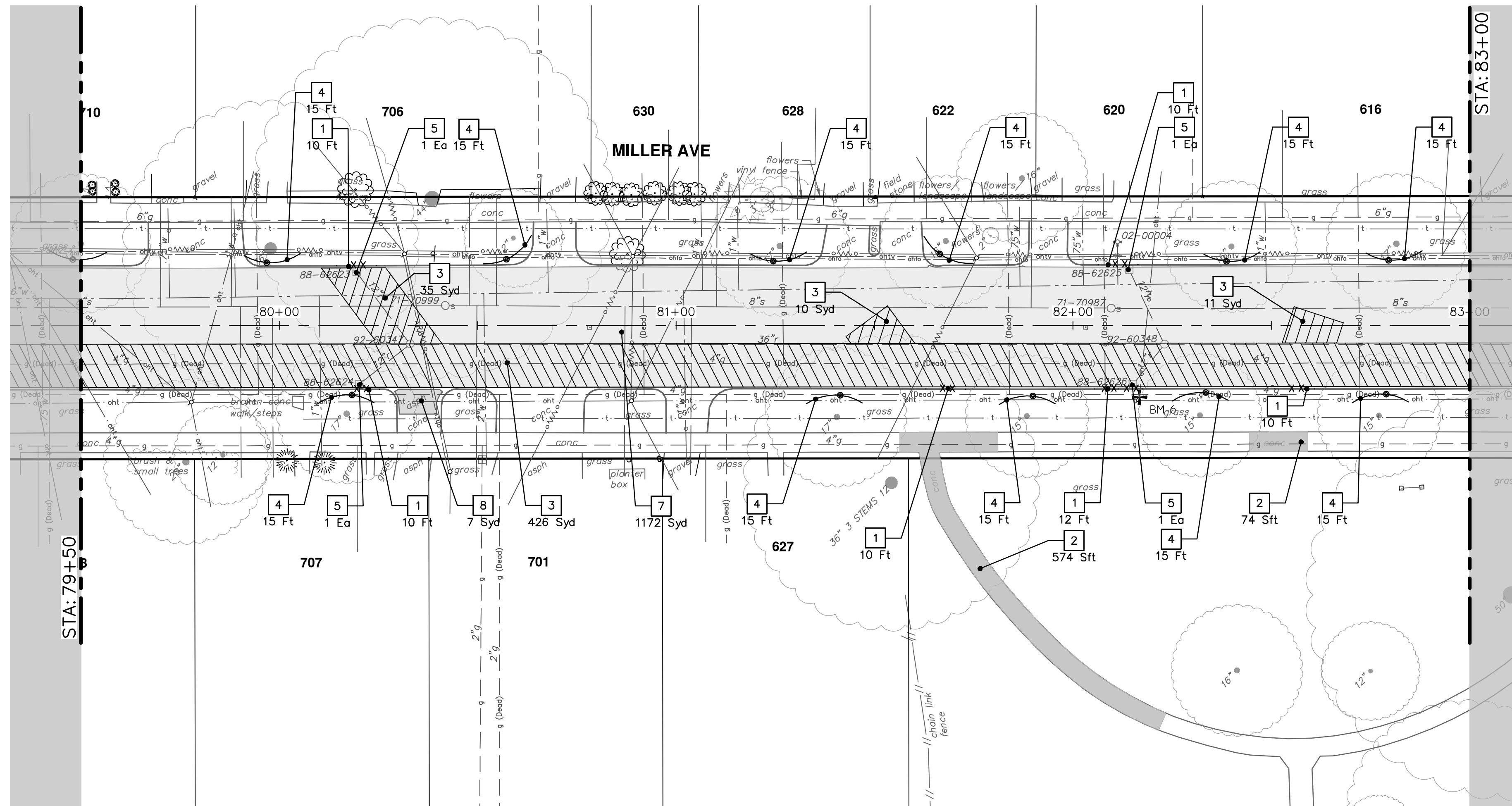


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ANN ARBOR, MI 48106-8647
ANN ARBOR: 734.754.4410
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| | | | | | |
|--------|------|-------------|------|-------|---------|
| | | | | | |
| DO | REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 4-9-24 | | | | AZD | JKA |



Know what's below.
Call Before you dig.



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 In. |
| 6B | Tree, Rem, 13 In. - 19 In. |
| 6C | Tree, Rem, 20 In. - 29 In. |
| 6D | Tree, Rem, 40 In. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |


* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

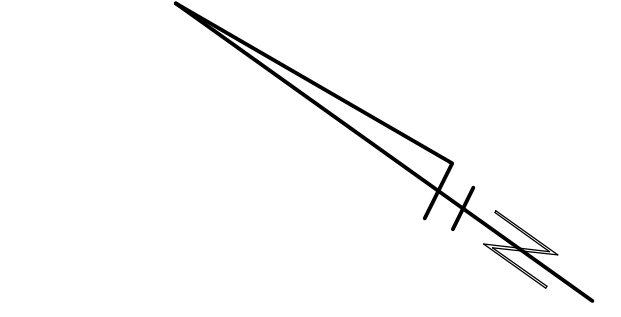
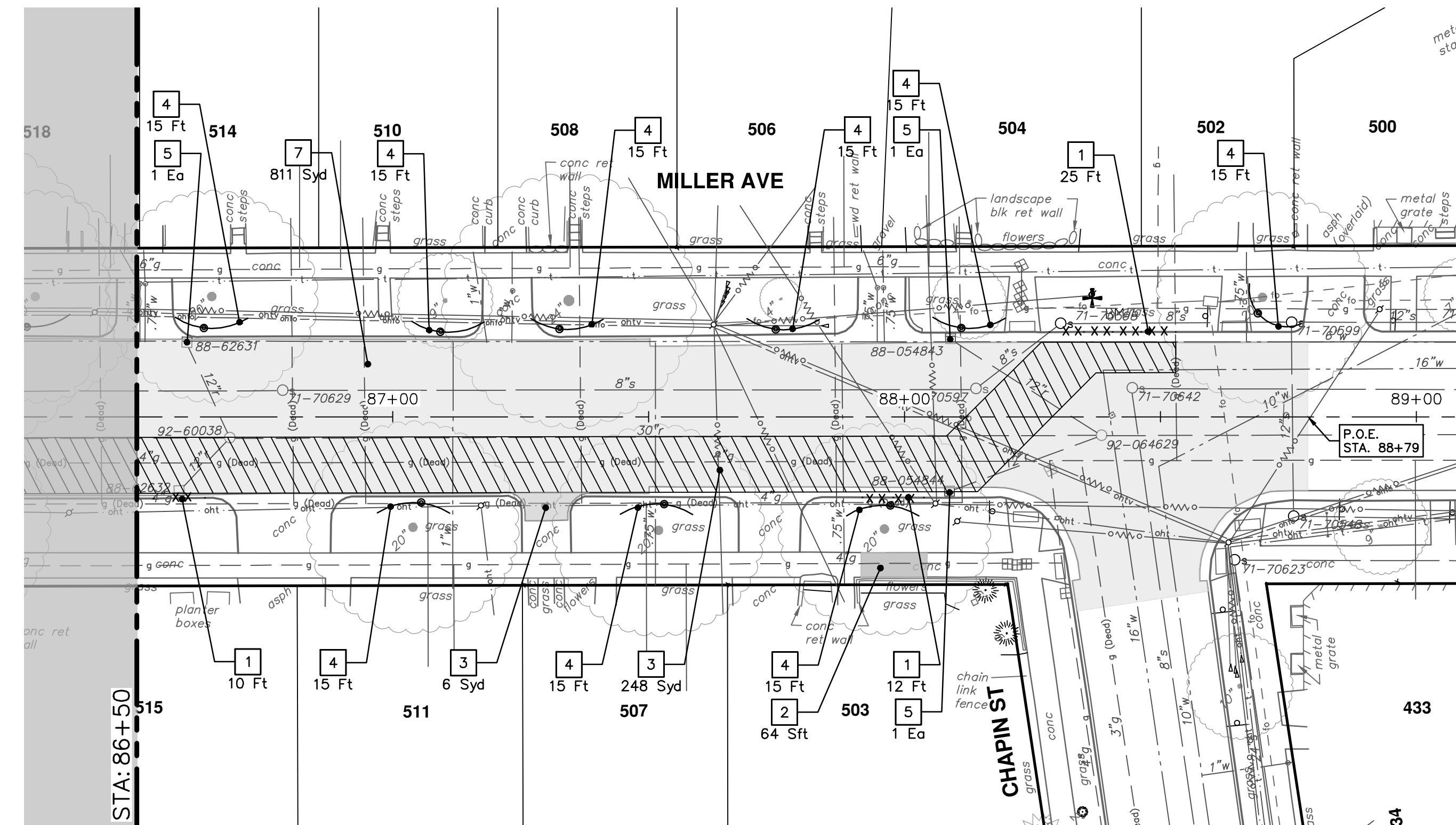
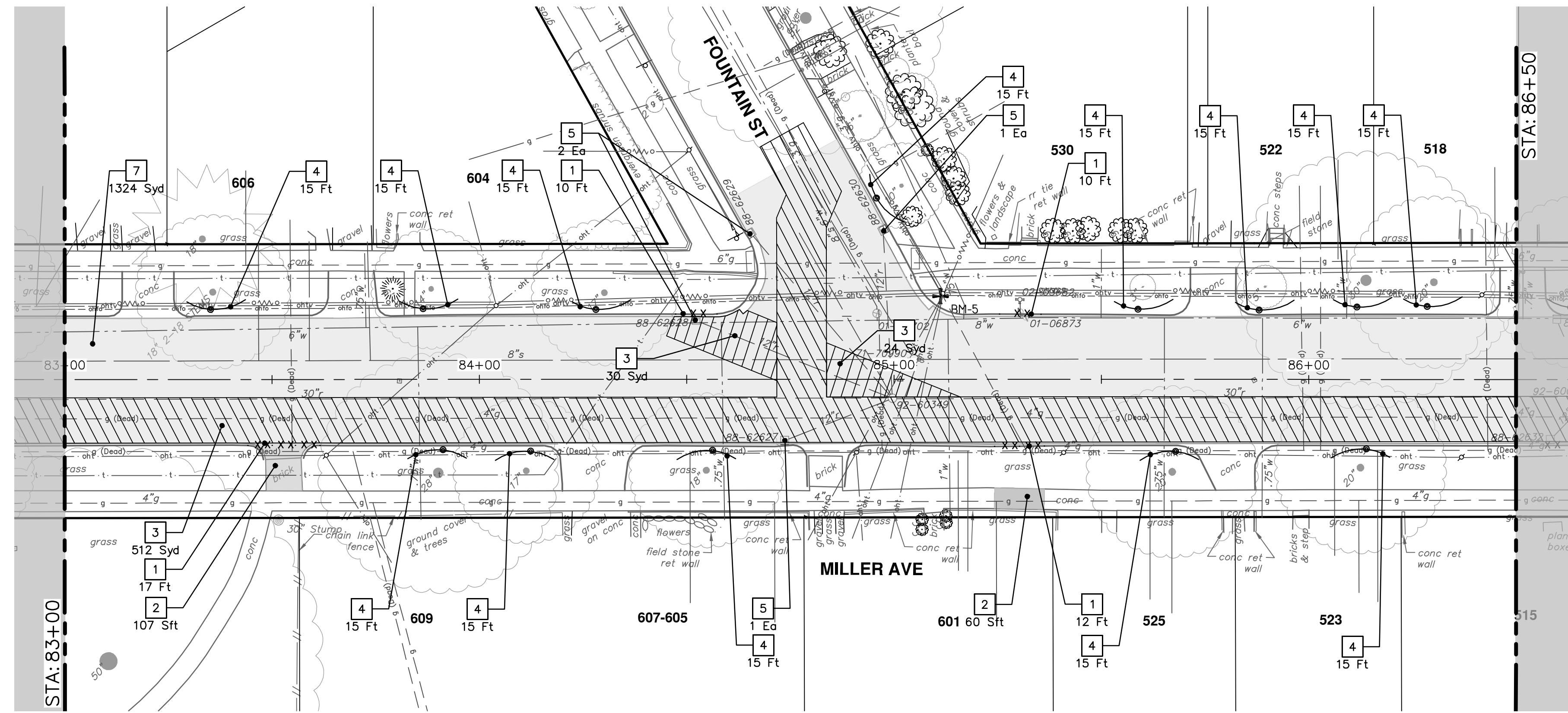
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
 REMOVALS

STA. 76+50 - STA. 83+00

DRAWING No. 2022034-44

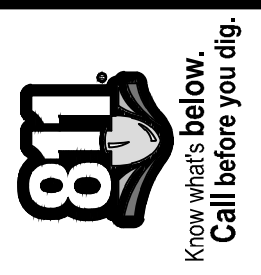
SHEET No. 44 OF 130

| | |
|---|---|
|  CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 ANN ARBOR: 734.794.4410 WWW.A2GOV.ORG | 811 Know what's below. Call before you dig. |
| REV. DO BID SET DATE 4-9-24 DRAWN JKA CHECKED JKA | DESCRIPTION REV. |



| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | Curb, Gutter, and Curb and Gutter, Any Type, Rem * |
| 2 | Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem |
| 3 | HMA, Any Thickness, Rem * |
| 4 | Tree Protective Fence |
| 5 | Erosion Control, Inlet Protection, Fabric Drop |
| 6A | Tree, Rem, 6 in. - 12 in. |
| 6B | Tree, Rem, 13 in. - 19 in. |
| 6C | Tree, Rem, 20 in. - 29 in. |
| 6D | Tree, Rem, 40 in. and Larger |
| 7 | Cold-Milling HMA Surface |
| 8 | HMA Surface, Rem |

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|---|-------------|--------|-------|---------|
| 00 <td>BID SET</td> <td>4-9-24</td> <td>AZD</td> <td>JKA</td> | BID SET | 4-9-24 | AZD | JKA |

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ANN ARBOR MI 48107-8647
ANN ARBOR MI 734-784-4410
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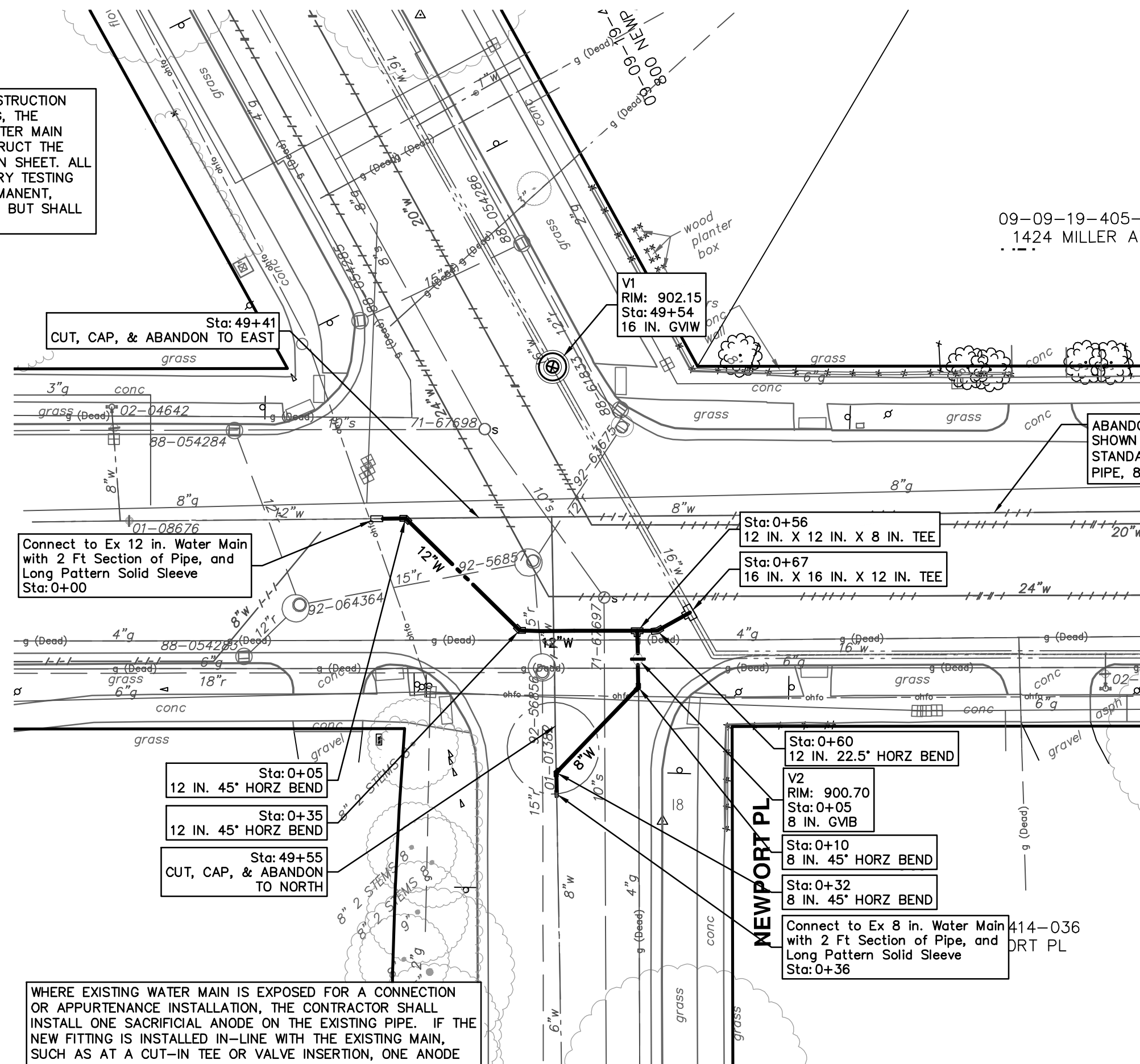


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
REMOVALS

SCALE: 1" = 20'
DRAWING No. 2022034-45

STA. 88+00 - STA. 88+79

UPON COMPLETION OF THE 12" WATER MAIN CONSTRUCTION AND HYDROSTATIC AND BACTERIOLOGICAL TESTING, THE CONTRACTOR SHALL REMOVE THE TEMPORARY WATER MAIN TESTING AND CONNECTION ASSEMBLY AND CONSTRUCT THE PERMANENT WATER MAIN AS SHOWN ON THE PLAN SHEET. ALL WORK ASSOCIATED WITH REMOVING THE TEMPORARY TESTING CONNECTION AND CONSTRUCTING THE FINAL, PERMANENT, CONNECTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.



09-09-19-405-
1424 MILLER A'

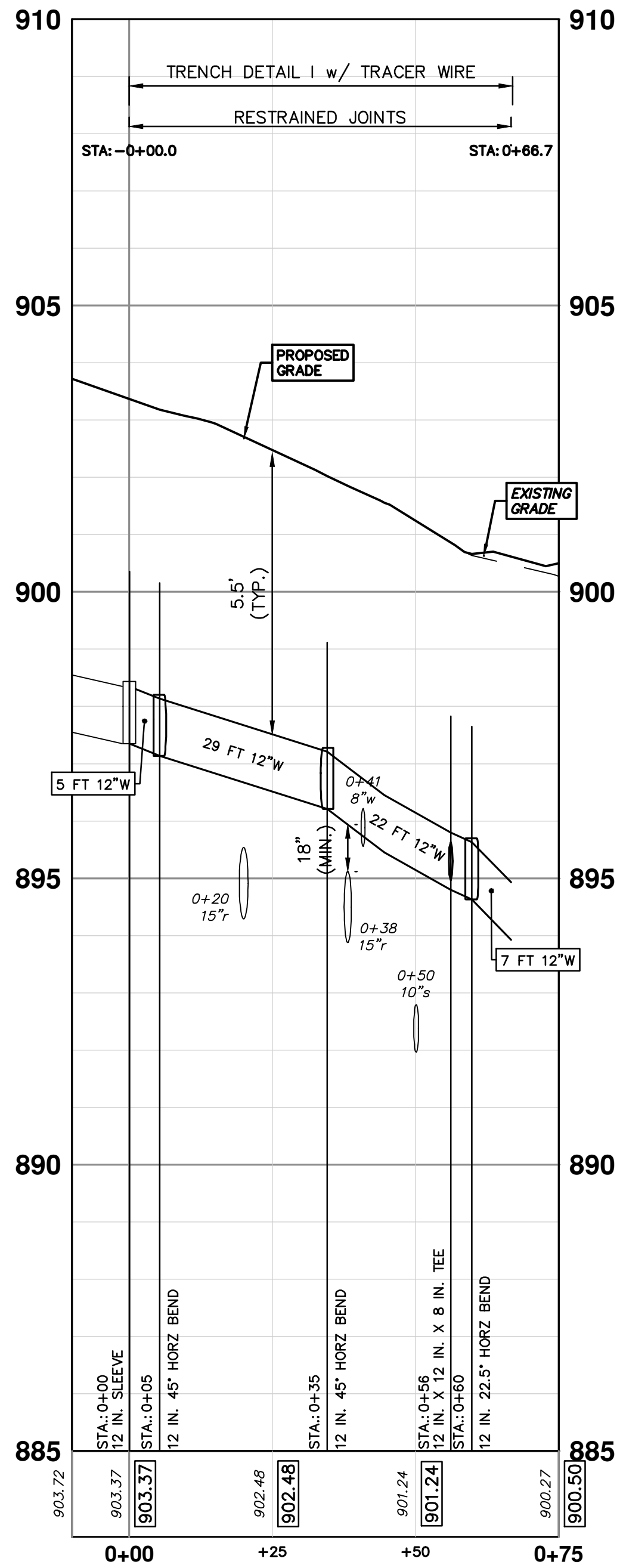
ABANDON EXISTING 8" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS, PAID FOR AS "WATER MAIN PIPE, 8 IN. DIA., ABANDON."

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

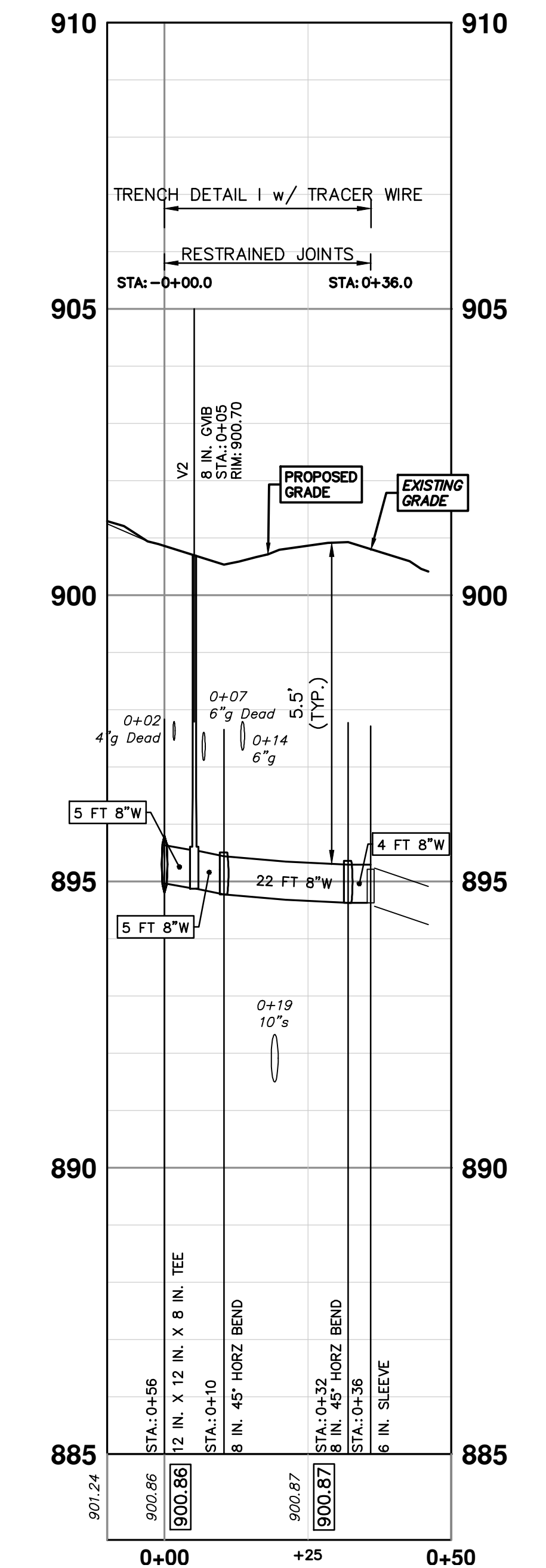
THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

| WATER MAIN STRUCTURES | | | |
|-----------------------|--------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V2 | 8 in. G.V.B | 0+05 | 900.70 |
| V1 | 16 in. G.V.W | 49+54 | 902.15 |

NEWPORT CONNECTION



NEWPORT PLACE CONN



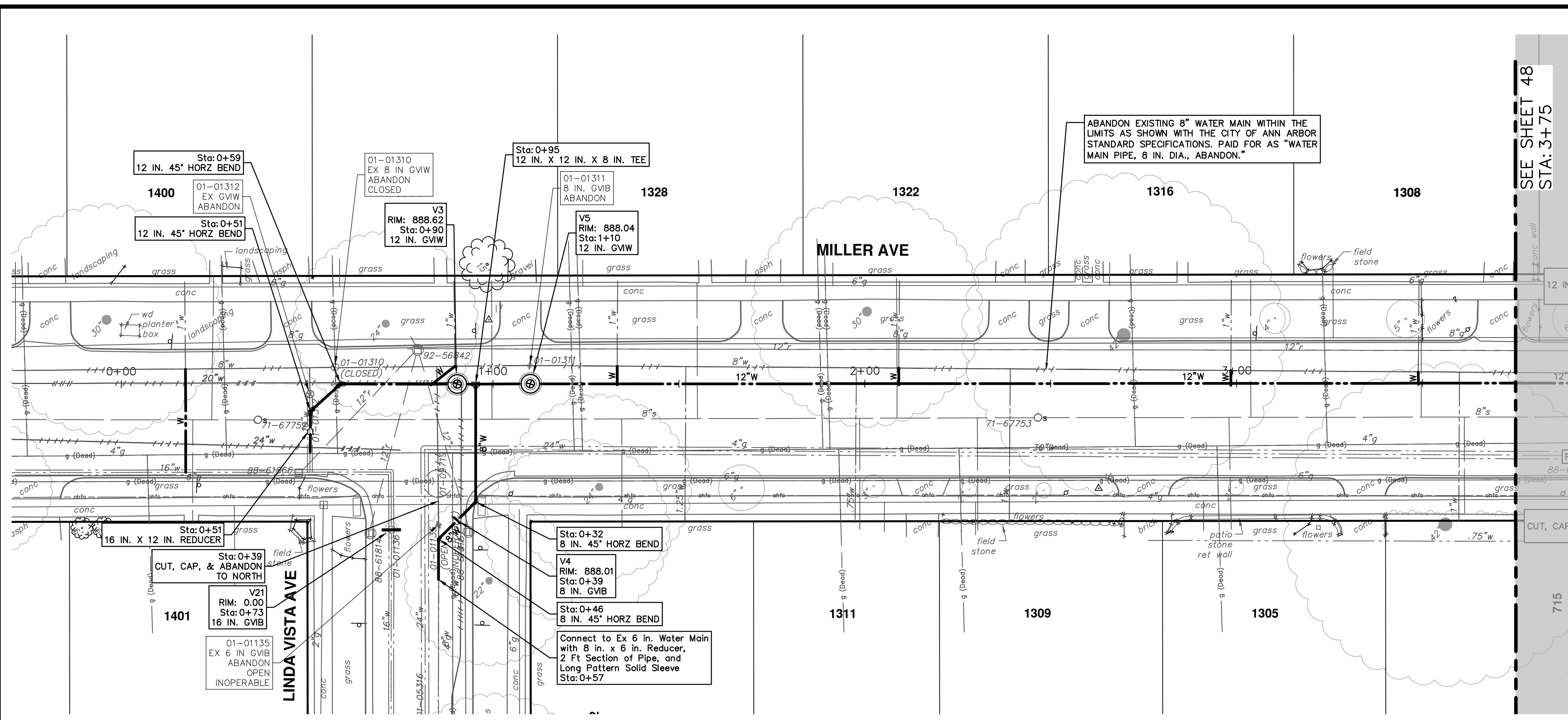
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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PUBLIC SERVICES
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I
NEWPORT AND NEWPORT PL CONNECTIONS

SHEET No. 46 OF 130
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2022034-46

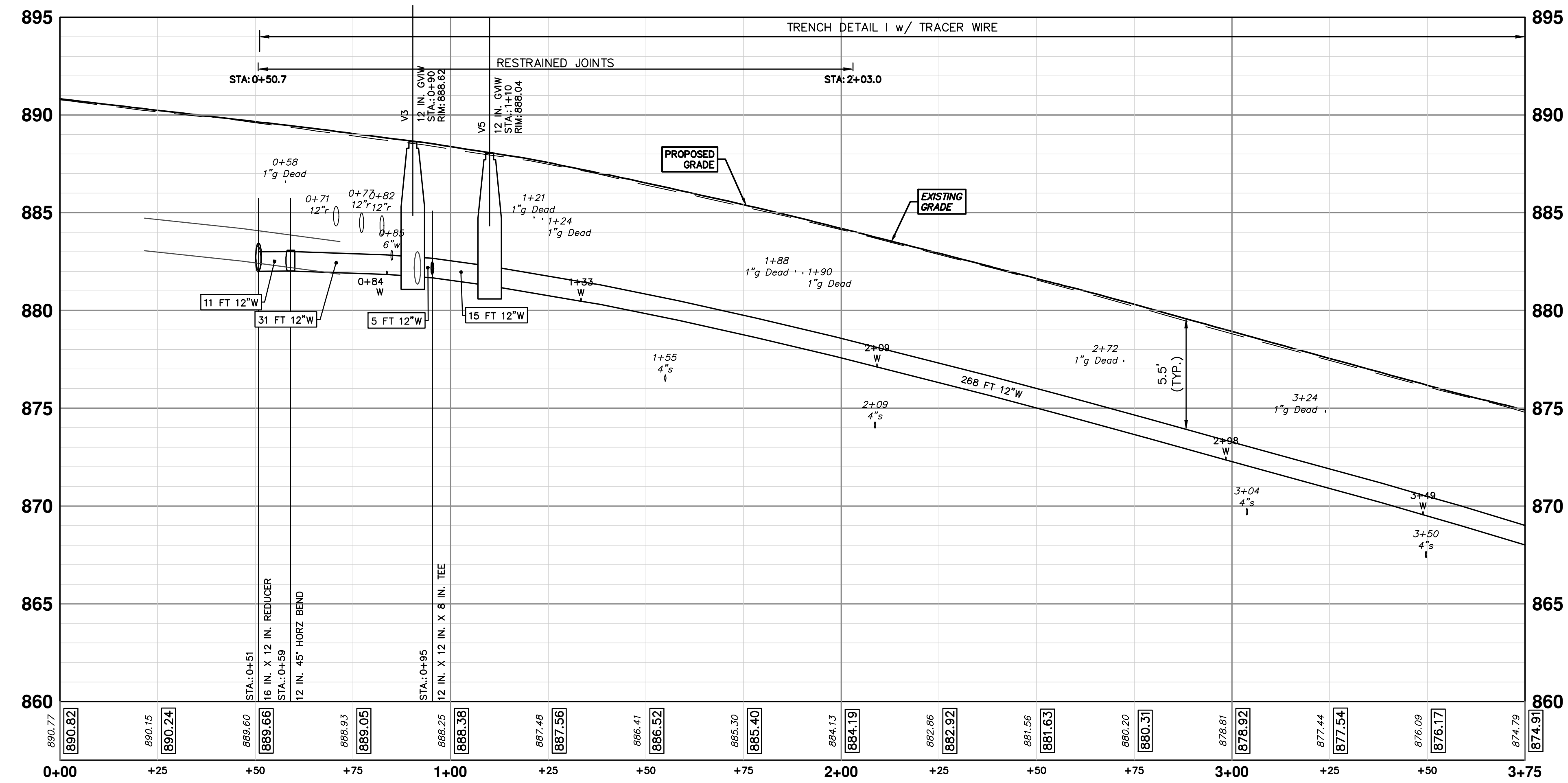


WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS 'SACRIFICIAL ANODE, XX LB'

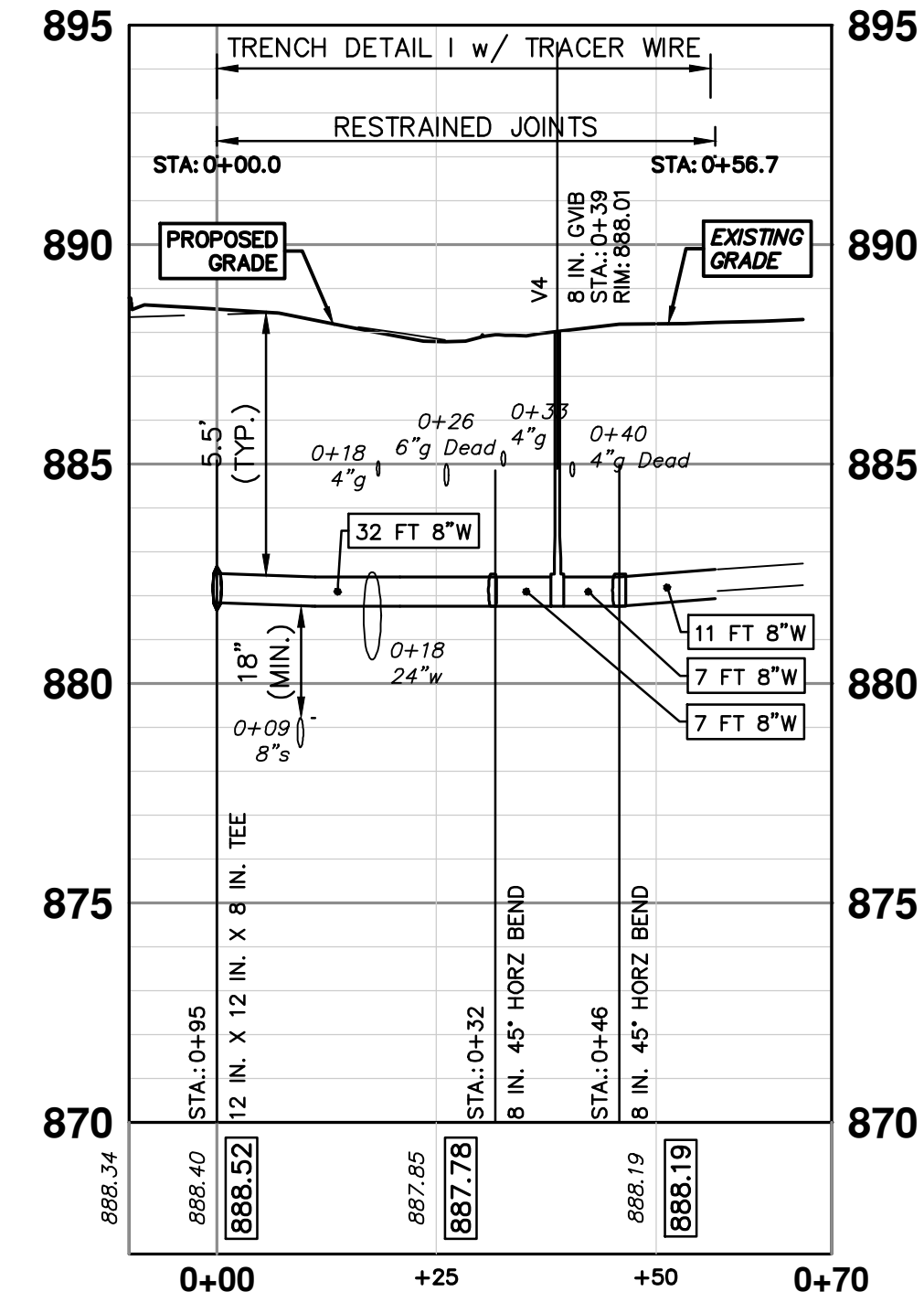
THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

| WATER MAIN STRUCTURES | | | |
|-----------------------|------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V4 | 8 in. GVB | 0+39 | 888.01 |
| V21 | 16 in. GVB | 0+73 | 0.00 |
| V3 | 12 in. GVV | 0+90 | 888.62 |
| V5 | 12 in. GVV | 1+10 | 888.04 |

PR WATER - LINDA VISTA TO N SEVENTH



LINDA VISTA CONN



Know what's below.
Call before you dig.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

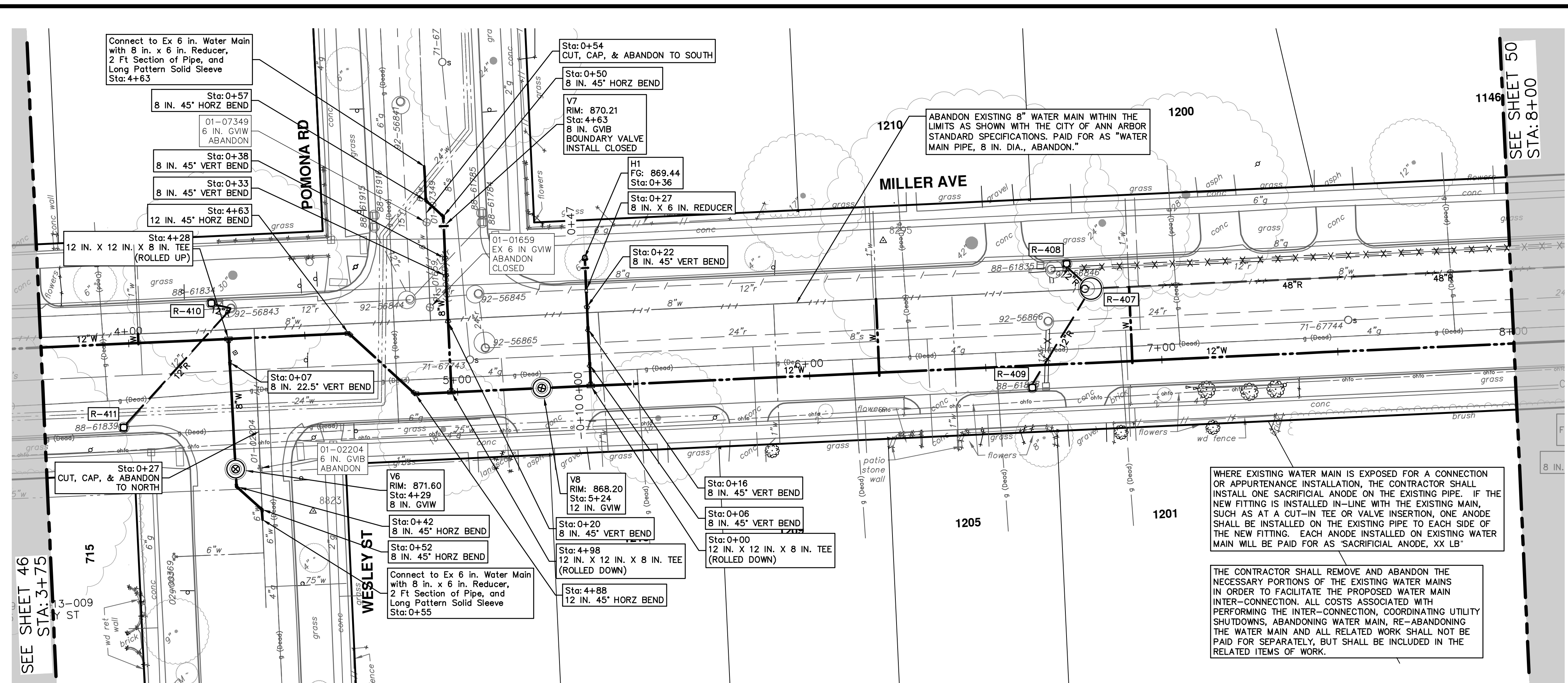
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2022034-47

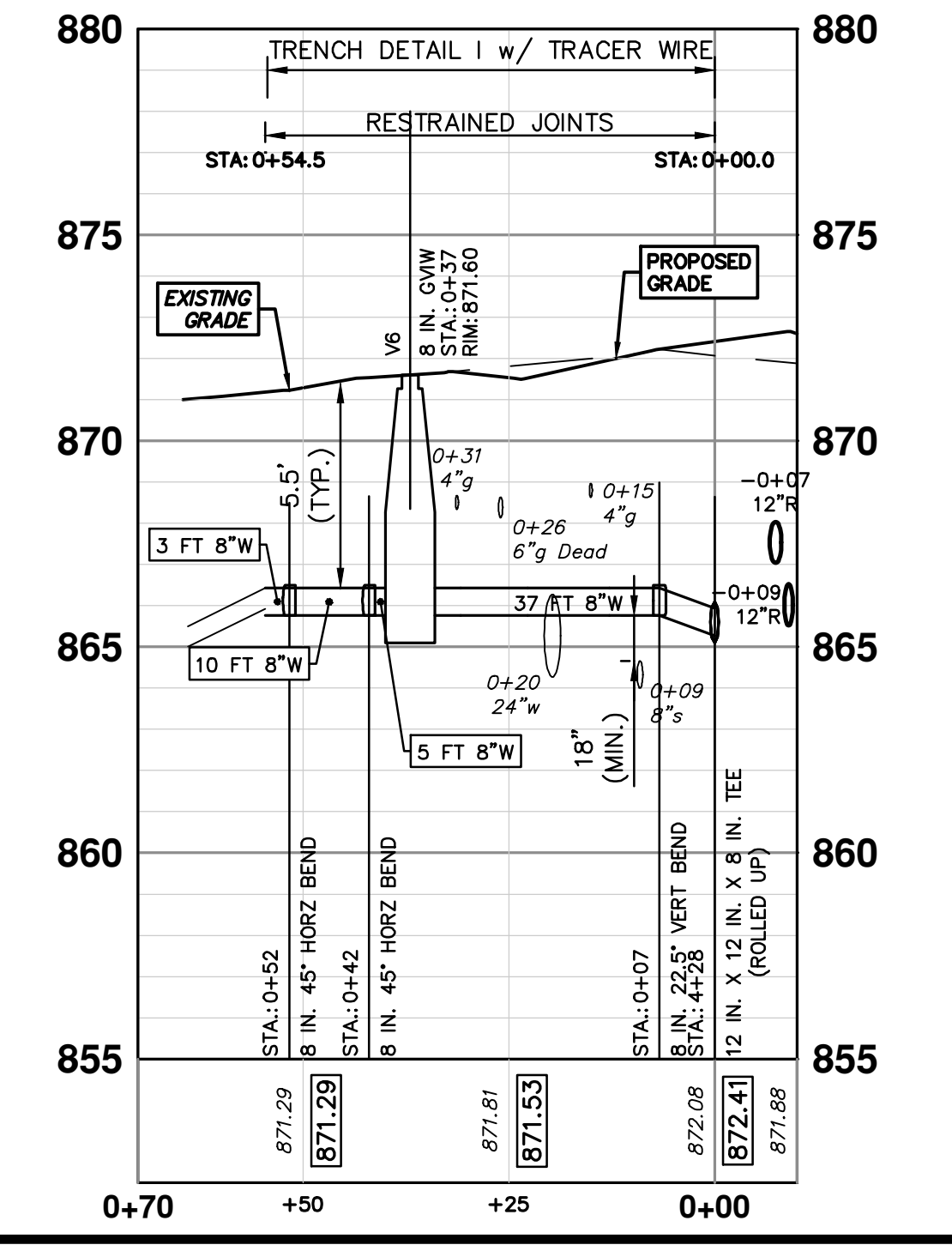
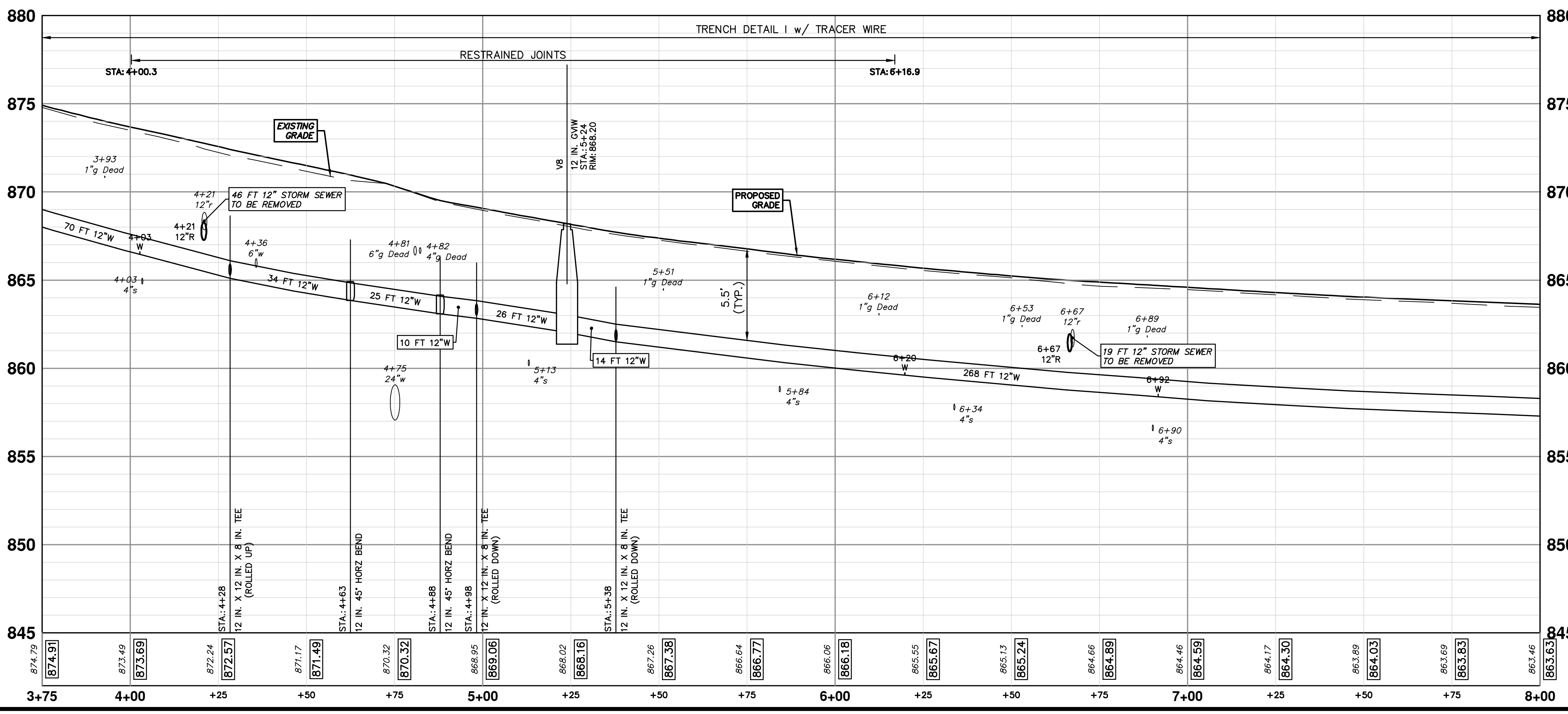
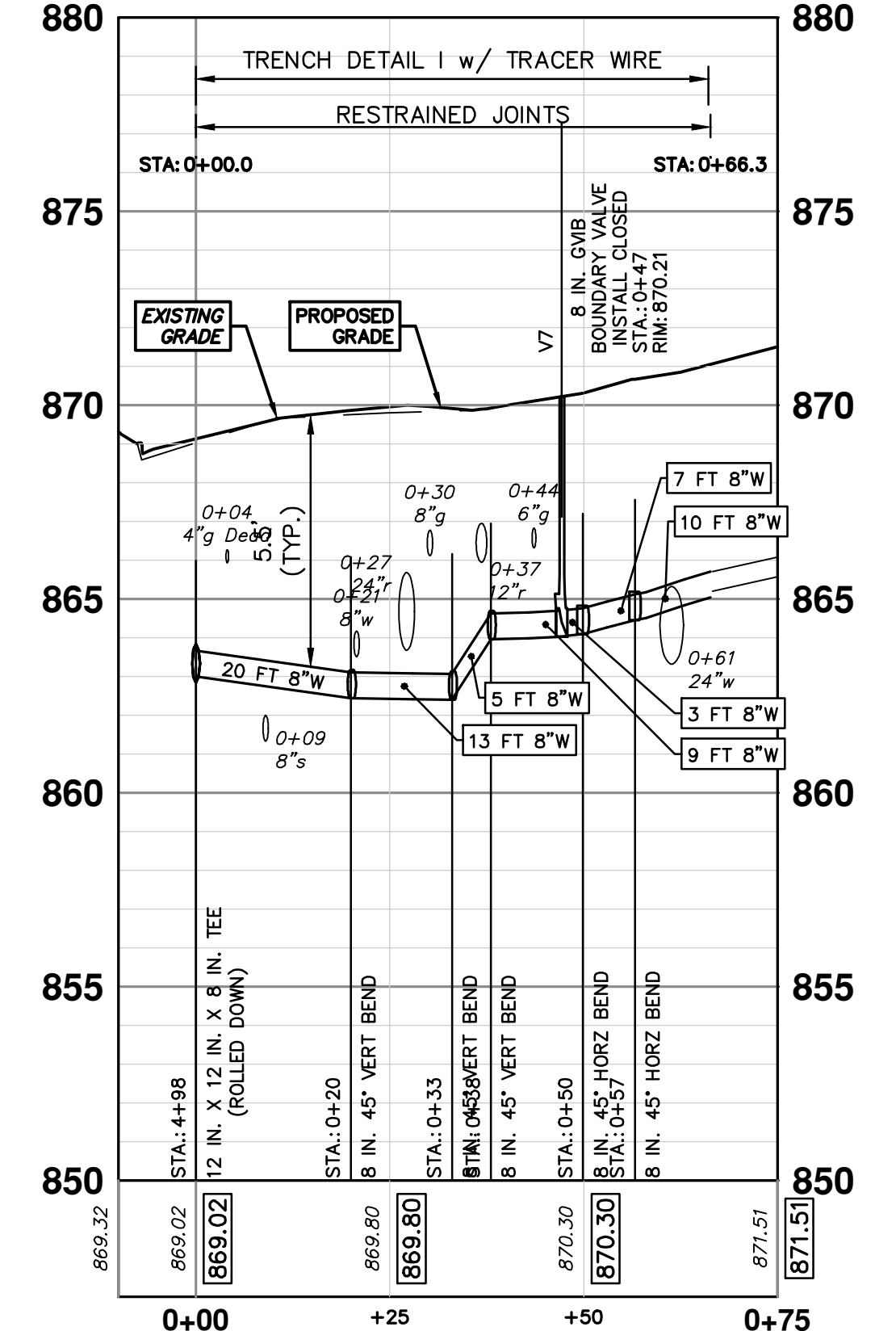
STA. 0+51 - STA. 3+75

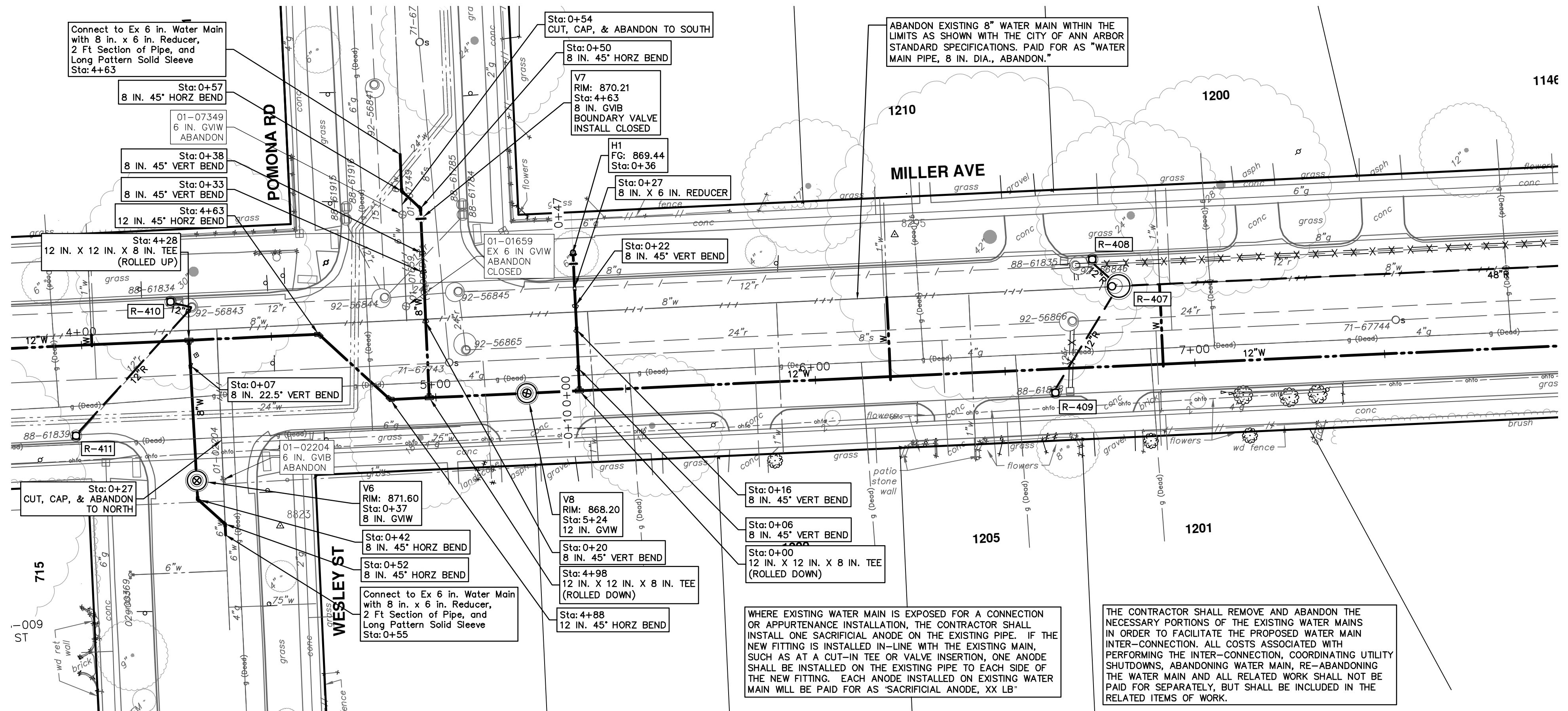
SHEET No. 47 OF 130



| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H1 | HYDRANT | 0+36 | 869.44 |

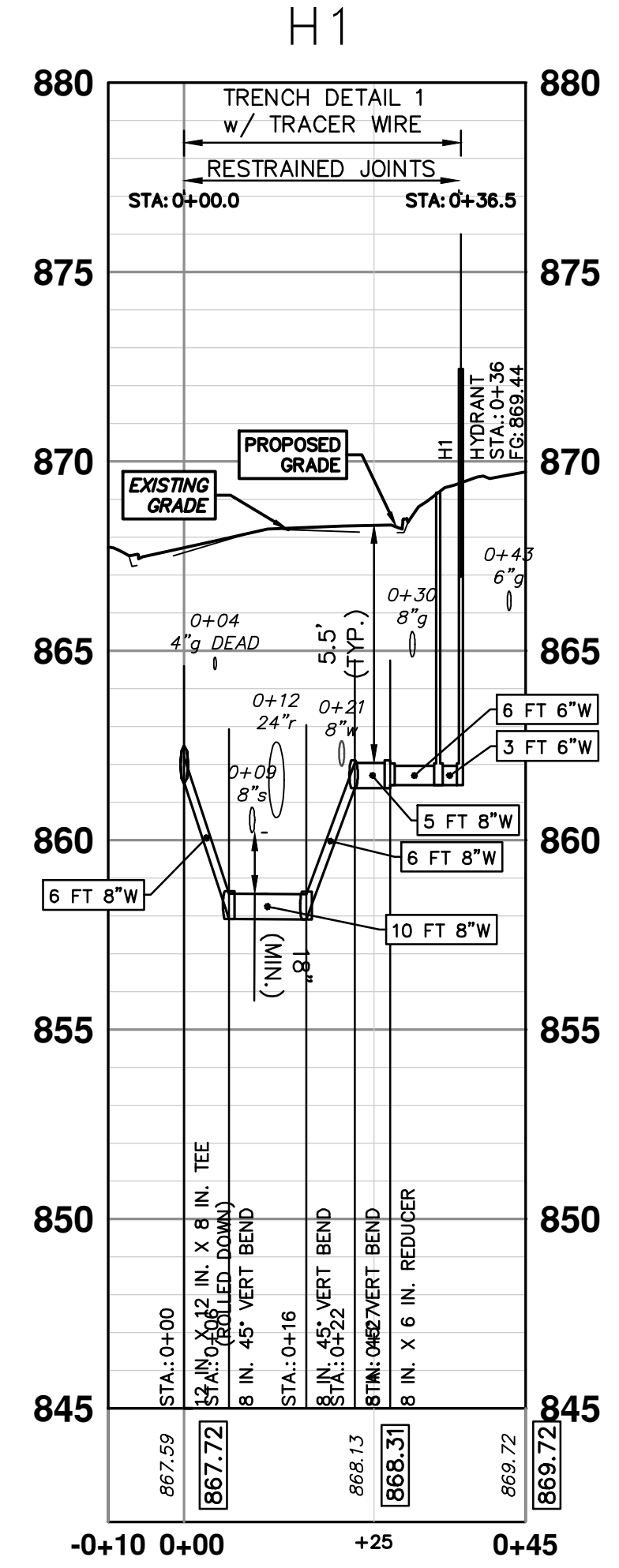
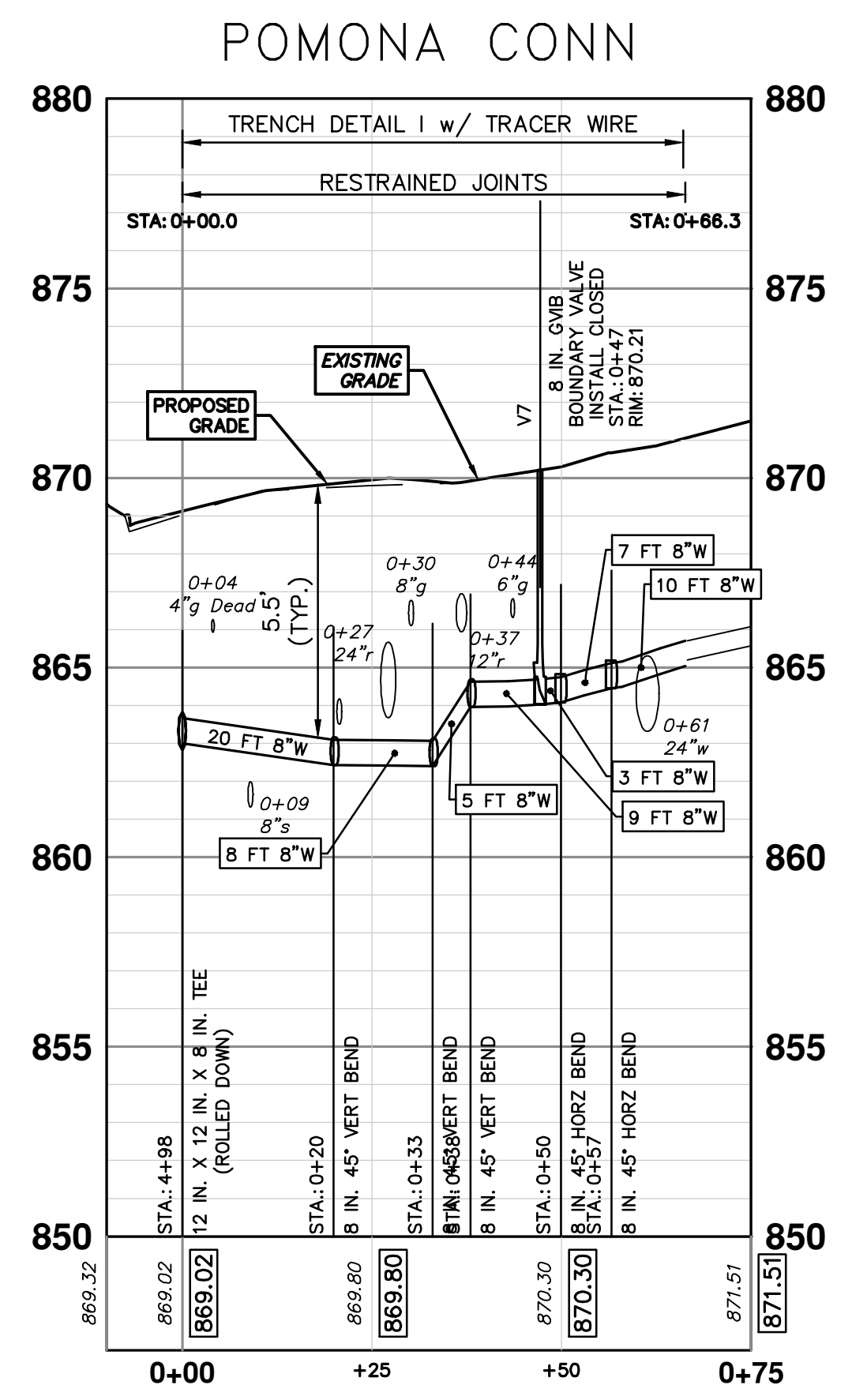
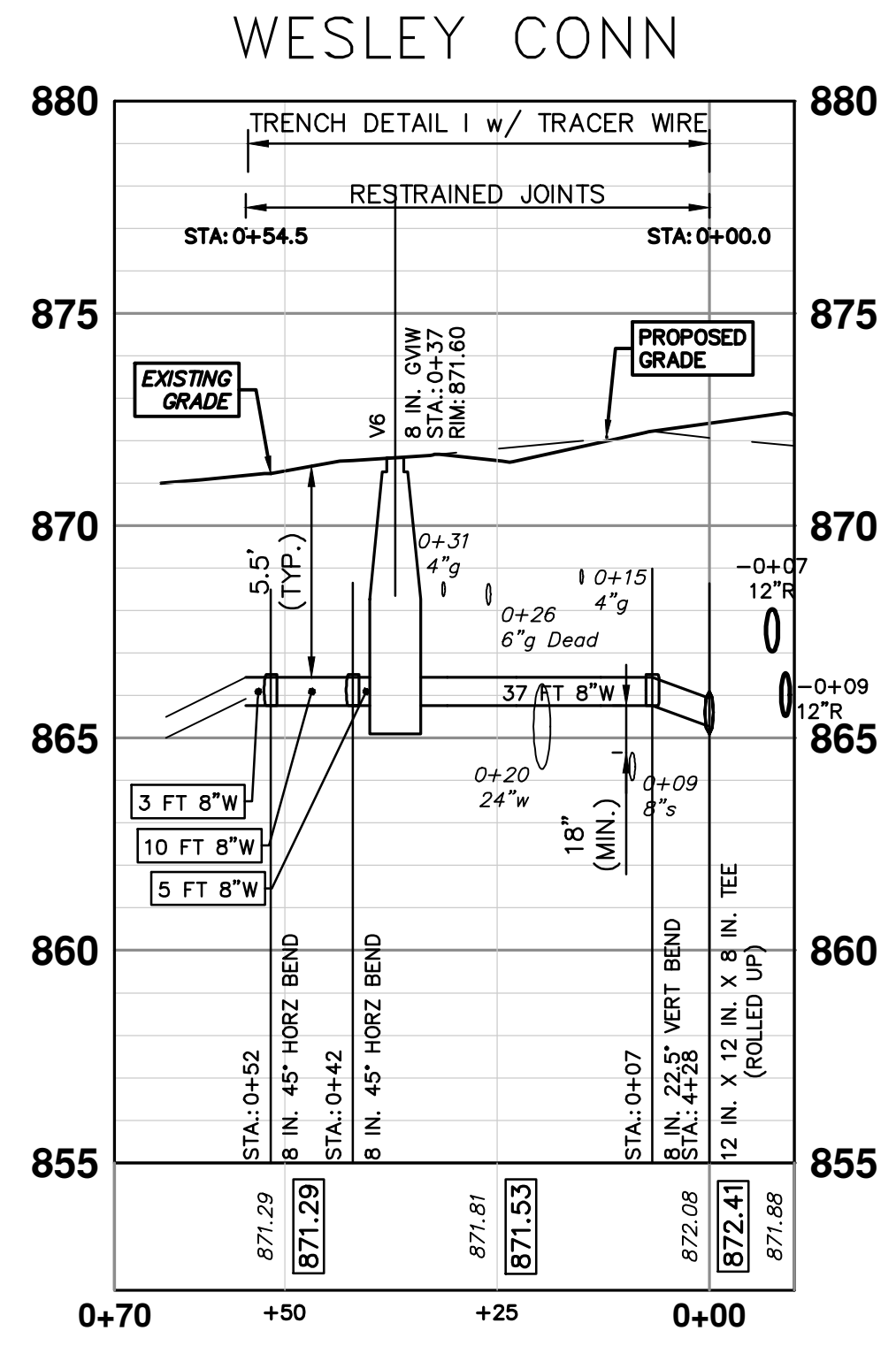
POMONA CONN





| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H1 | HYDRANT | 0+36 | 869.44 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V7 | 8 in. GVB BOUNDARY VALVE INSTALL CLOSED | 0+47 | 870.21 |



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

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I
POMONA AND WESLEY CONNECTIONS AND H1 PROFILE

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ANN ARBOR, MI 48106-1647
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CITY OF ANN ARBOR
MICHIGAN

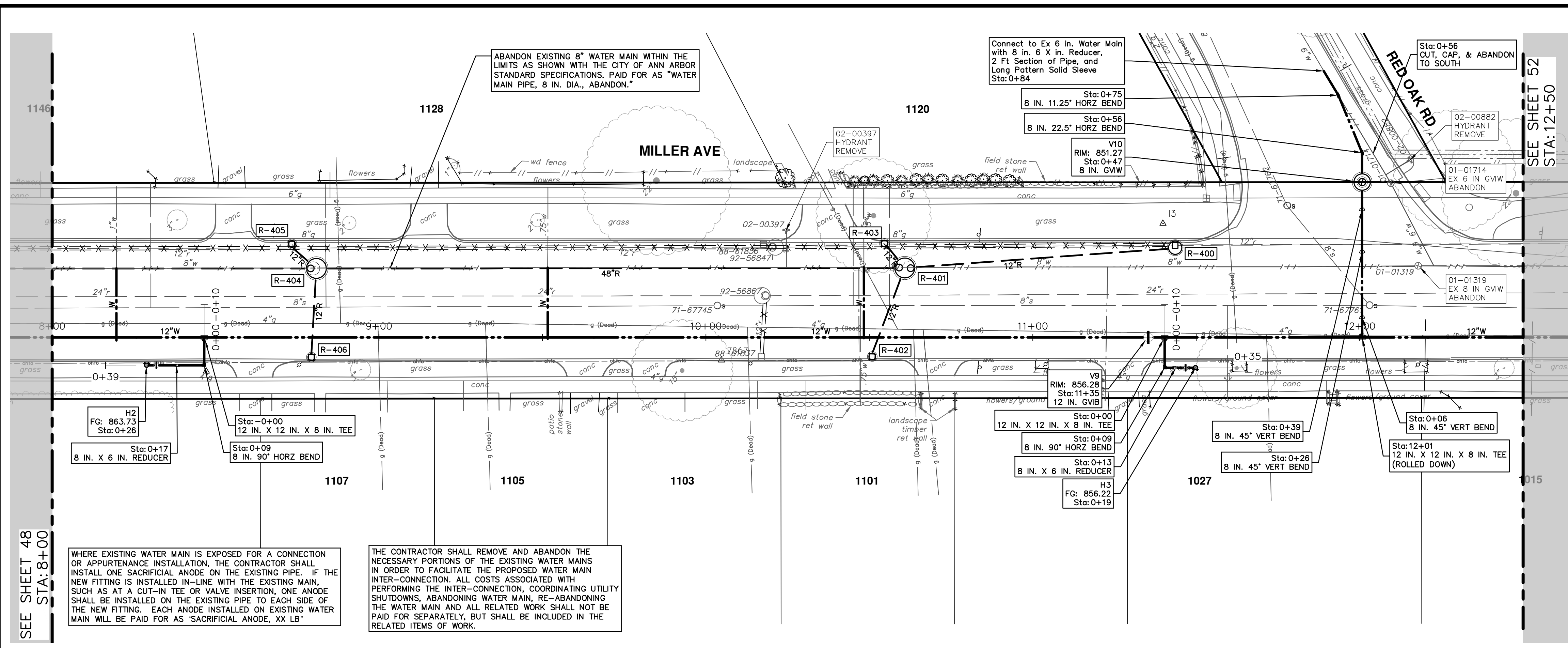
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2022034-49

SHEET No. 49 OF 130

| | | | |
|------|--------|-------|---------|
| REV. | DATE | DRAWN | CHECKED |
| 00 | 4-9-24 | AZD | JKA |

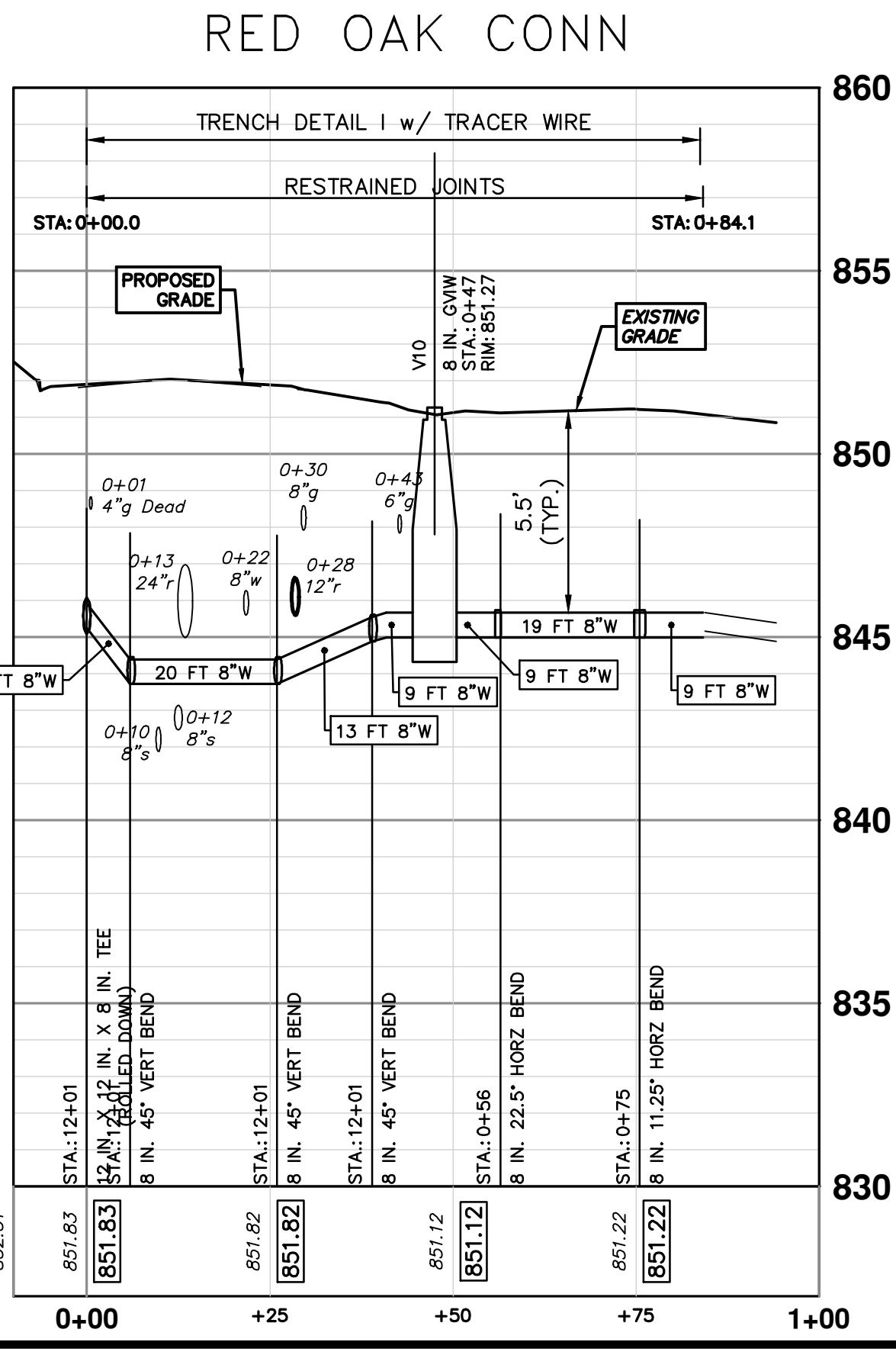
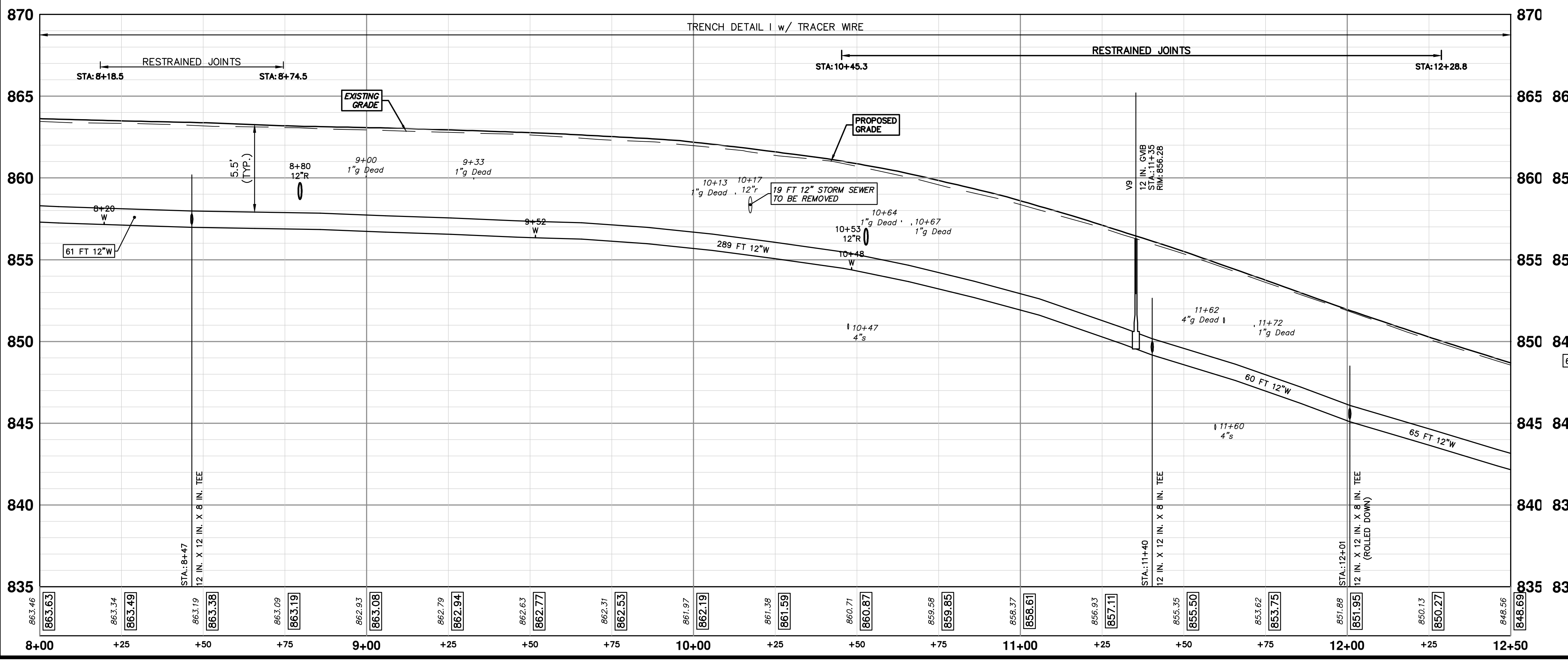
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| WATER MAIN STRUCTURES | | | |
|-----------------------|------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V10 | 8 in. GVW | 0+47 | 851.27 |
| V9 | 12 in. GVW | 11+35 | 856.28 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H2 | HYDRANT | 0+26 | 863.73 |
| H3 | HYDRANT | 0+19 | 856.22 |


PR WATER - LINDA VISTA TO N SEVENTH





Know what's below.
Call before you dig.

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I

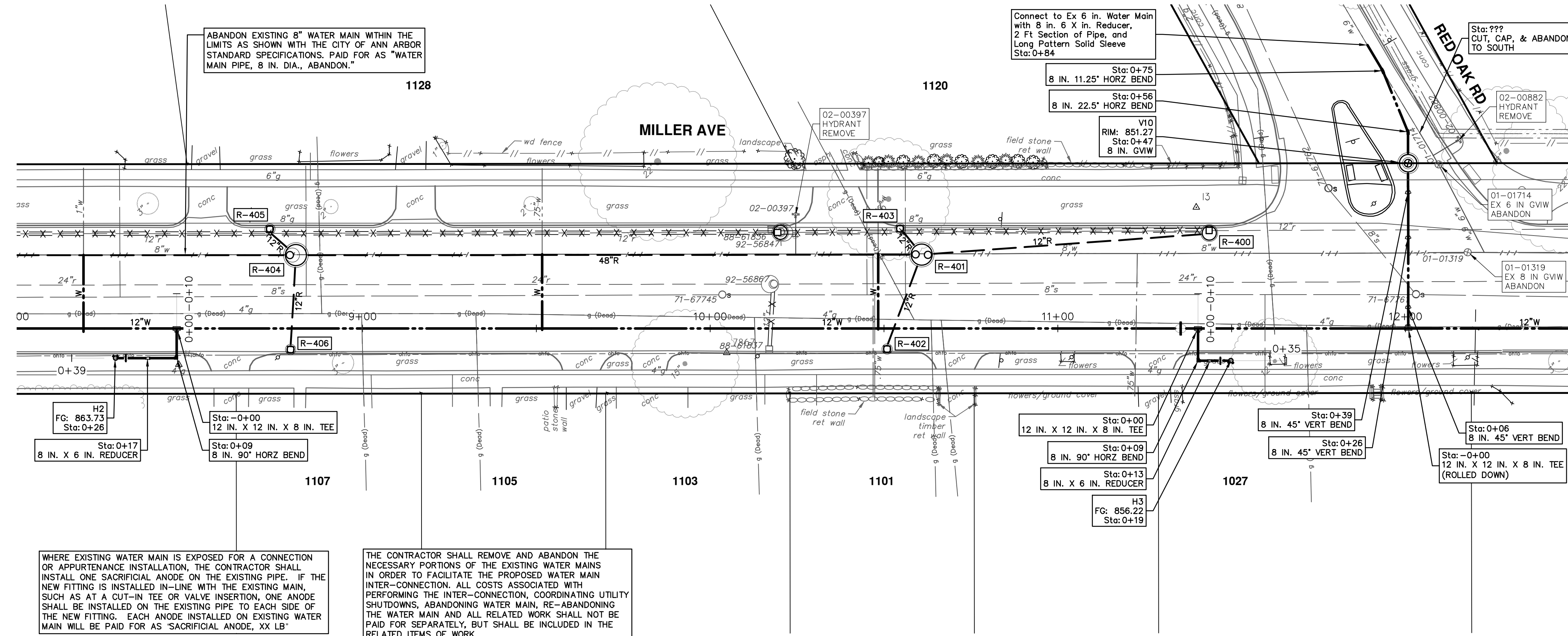
STA. 8+00 - STA. 12+50

SHEET No. **50 OF 130**

DRAWING No. **2022034-50**

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

R:\2022034 Miller Ave Rehab\Plan Production\2022034\Watr2.dwg Dwg Created: 29-Mar-24 - _a2_standard bw.stb - Plot Date: 5-Apr-24

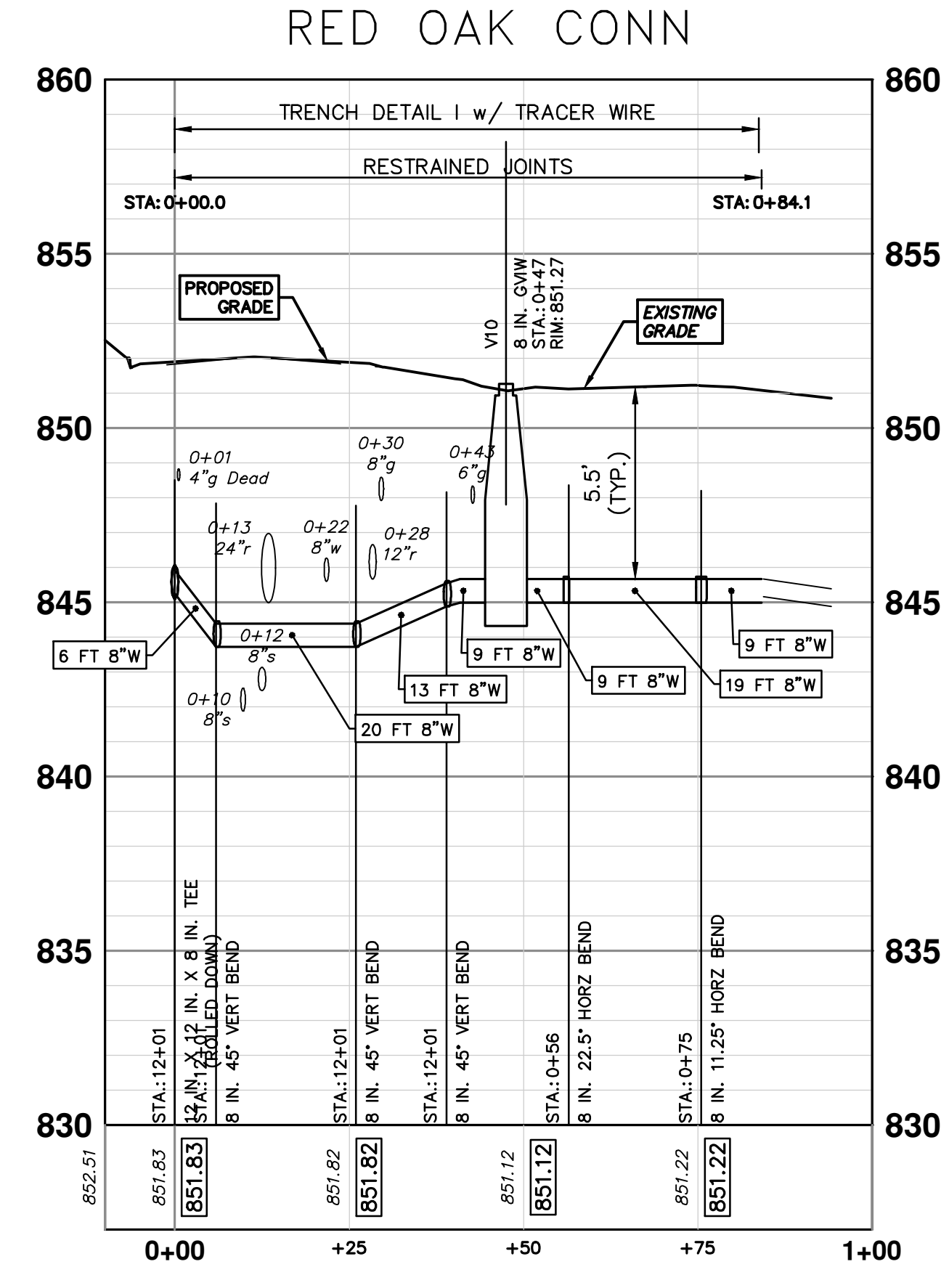
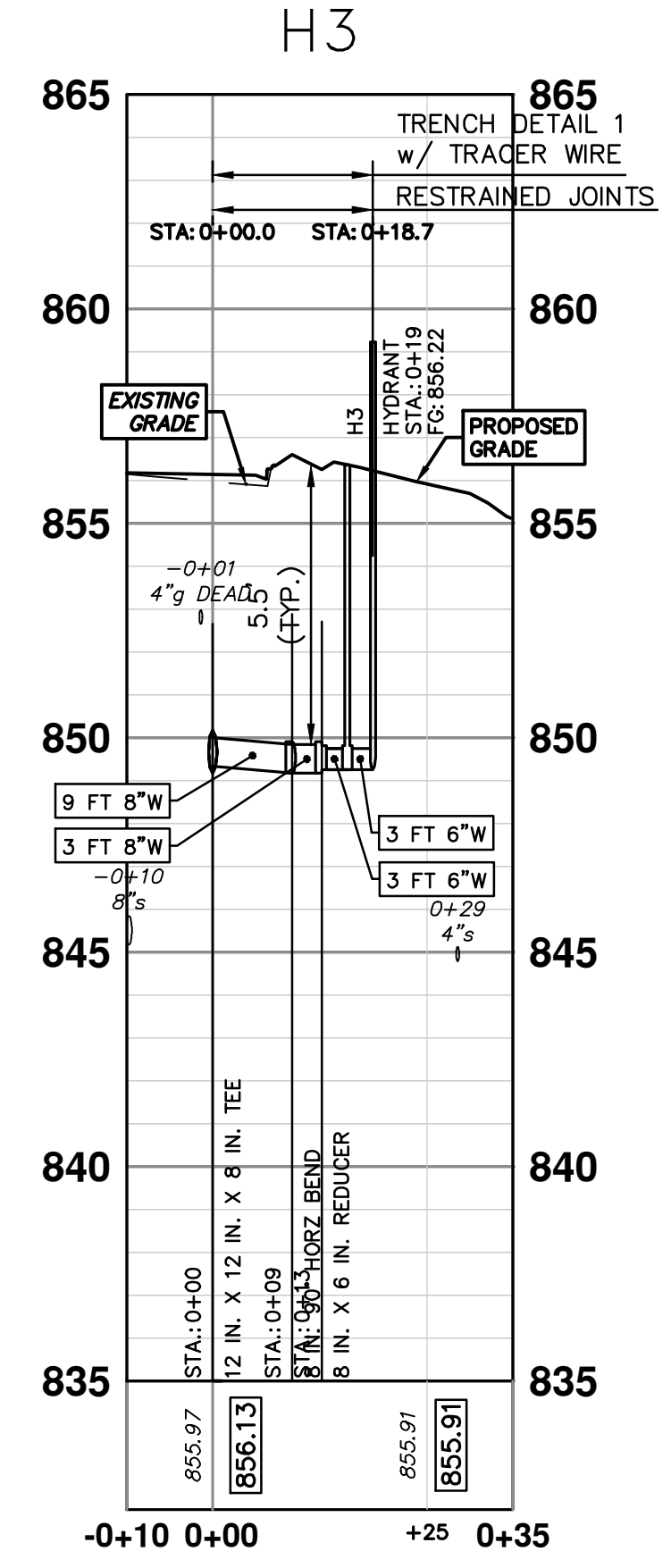
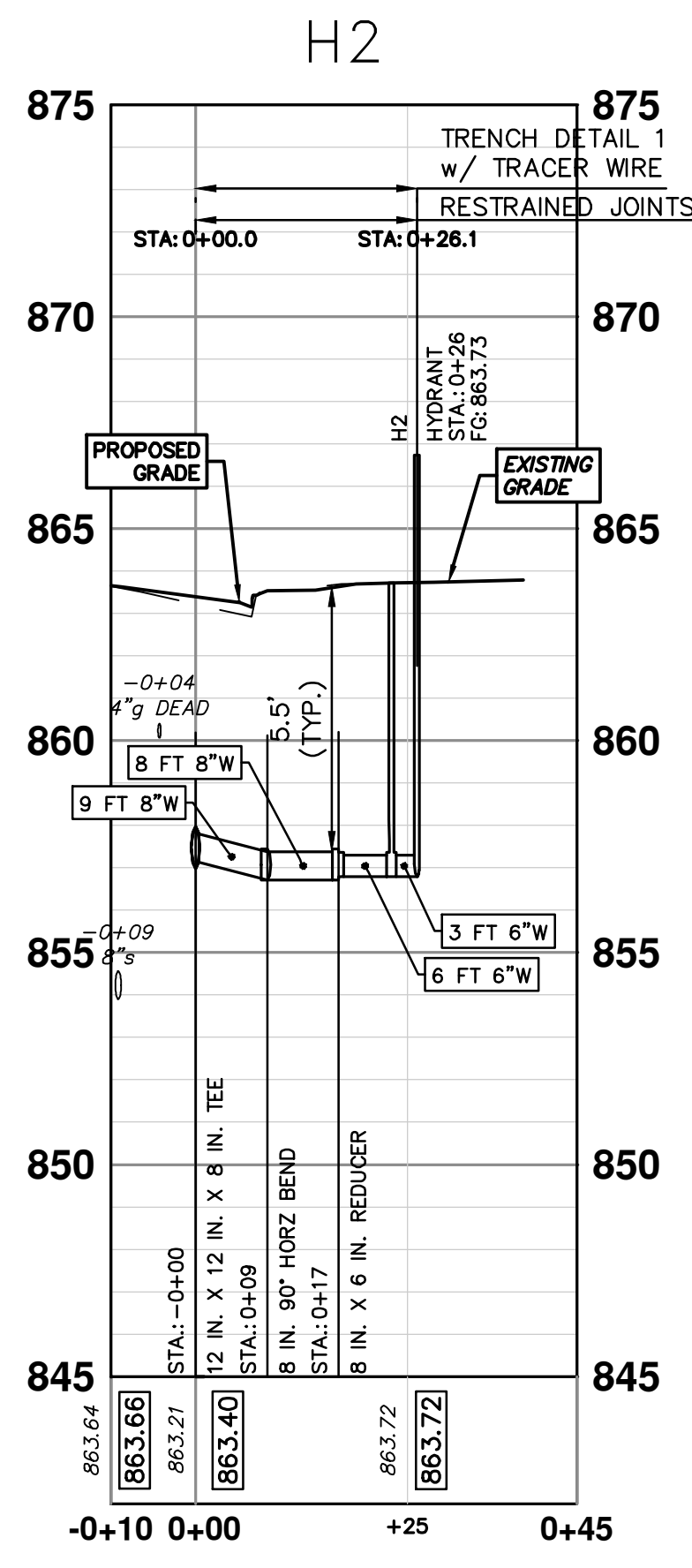


| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H2 | HYDRANT | 0+26 | 863.73 |
| H3 | HYDRANT | 0+19 | 856.22 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|-----------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V10 | 8 in. GVW | 0+47 | 851.27 |

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS SACRIFICIAL ANODE, XX LB

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.



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

DATE: 4-9-24
DRAWN: JKA
CHECKED: JKA

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I

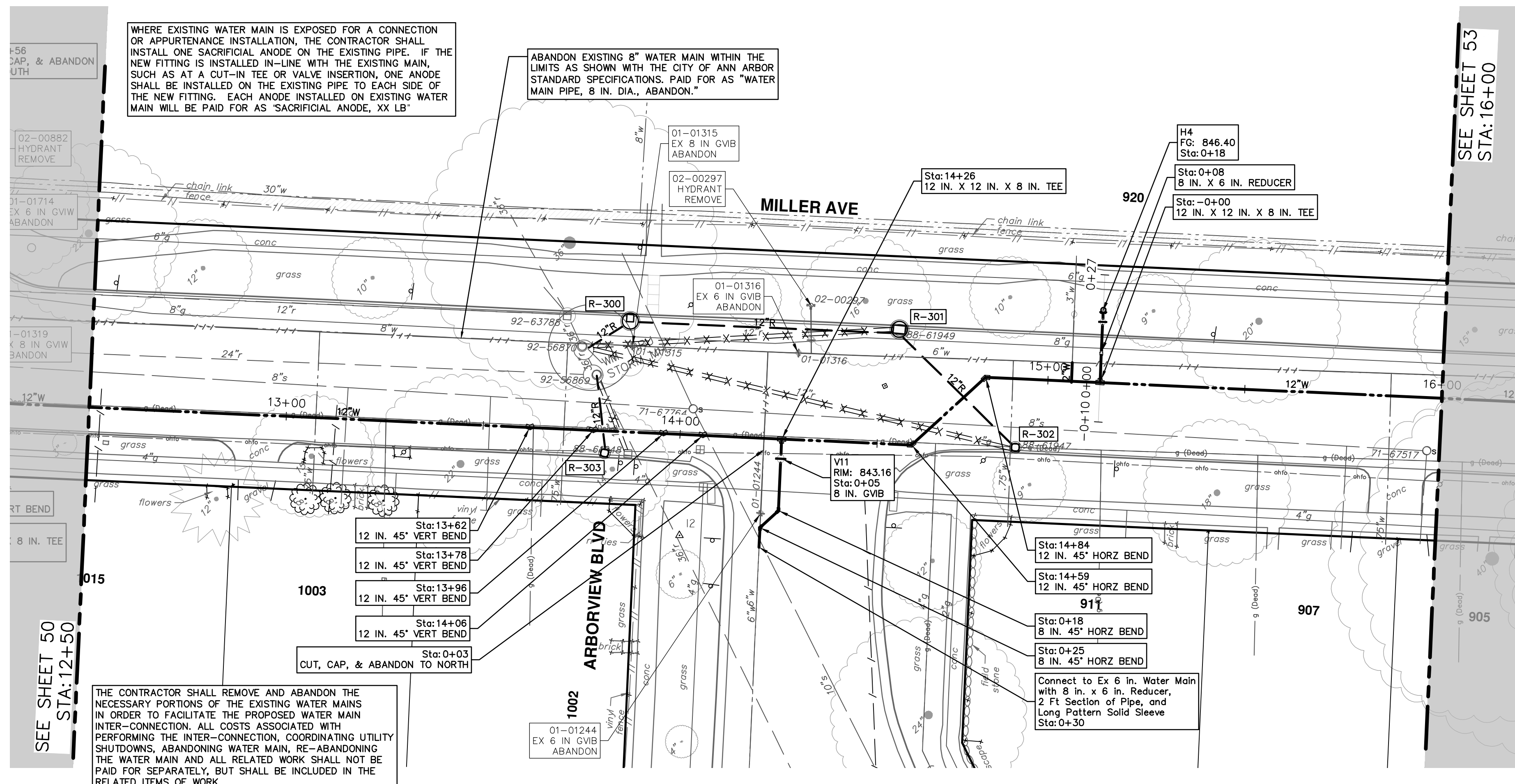
RED OAK CONNECTION AND H2 AND H3 PROFILES

SHEET No. 51 OF 130

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2022034-51

R:\2022034 Miller Ave Rehab\Plan Production\2022034Water.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



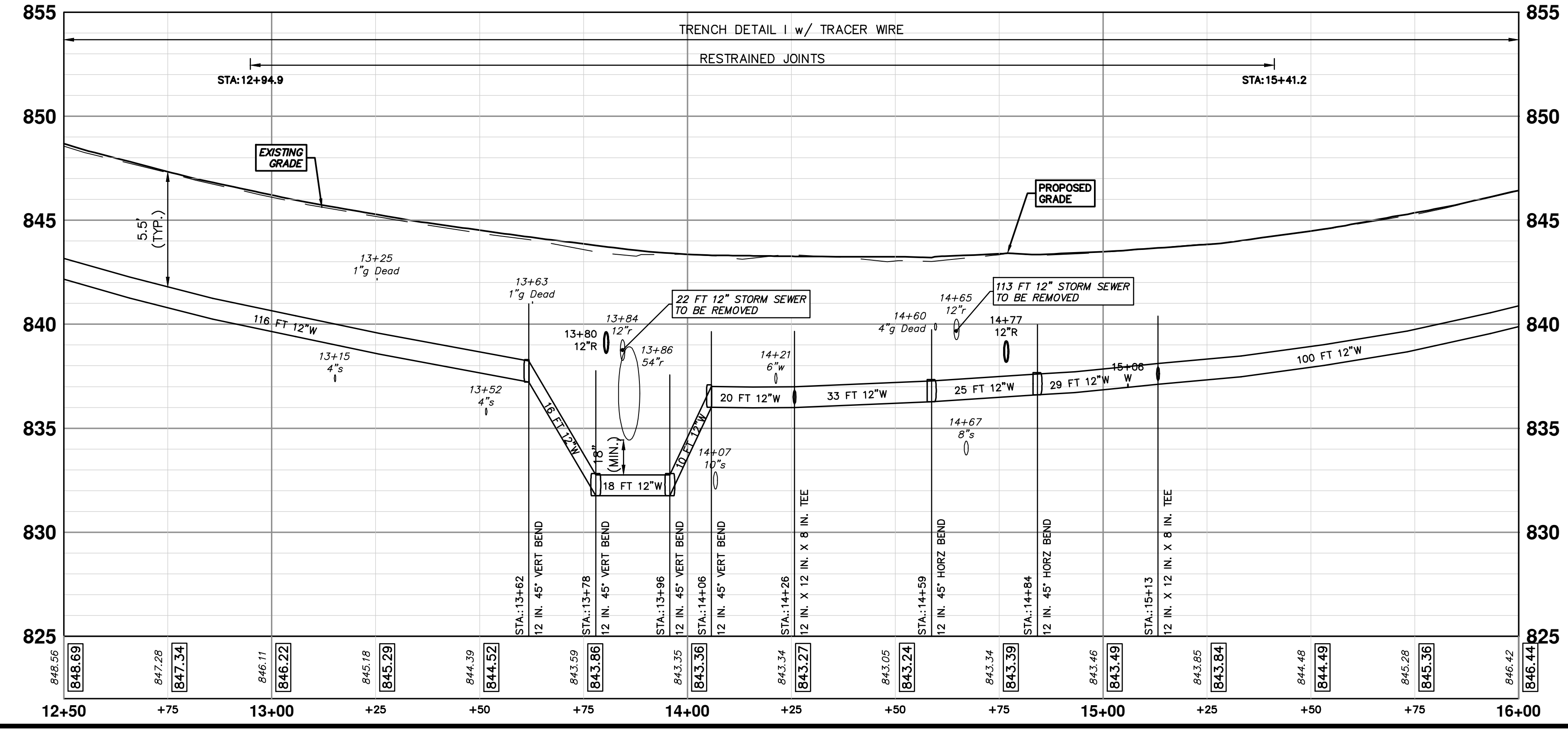
SEE SHEET 50
STA: 12+50

SEE SHEET 53
STA: 16+00

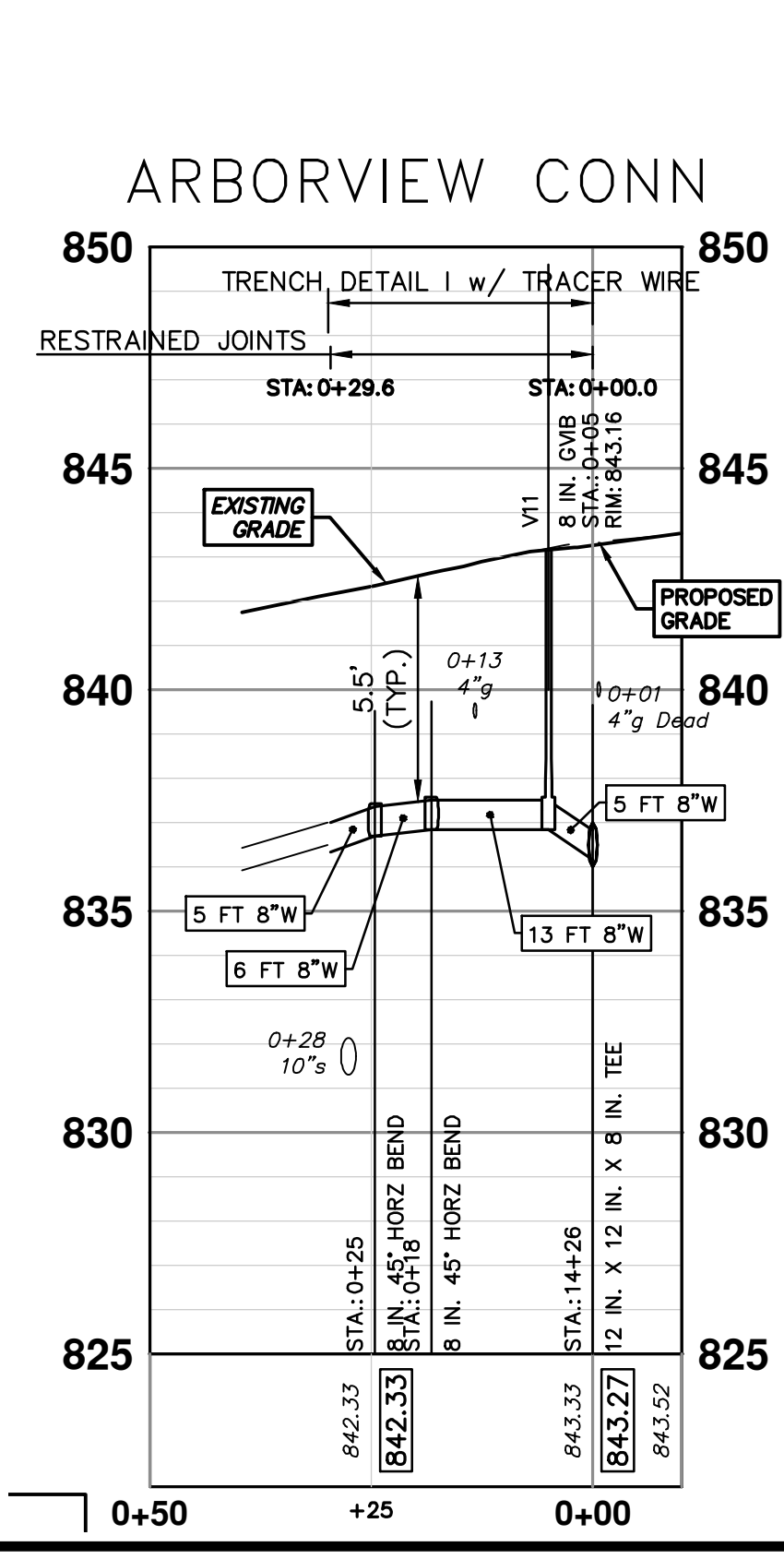
| WATER MAIN STRUCTURES | | | |
|-----------------------|-----------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V11 | 8 in. GVB | 0+05 | 843.16 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H4 | HYDRANT | 0+18 | 846.40 |

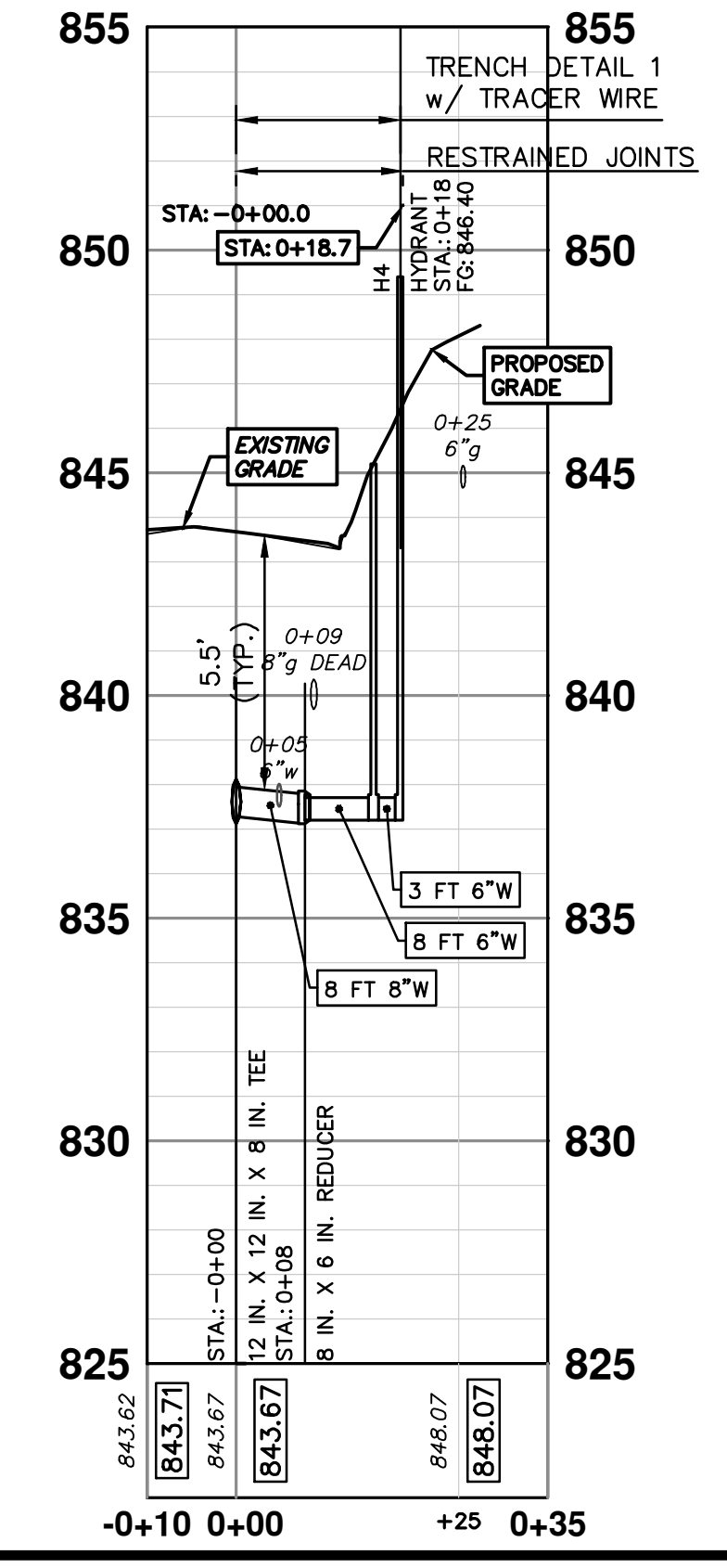
PR WATER - LINDA VISTA TO N SEVENTH



ARBORVIEW CONN



H4



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

DATE: 4-9-24
DRAWN: JKA
CHECKED: JKA

CITY OF ANN ARBOR
PUBLIC SERVICES
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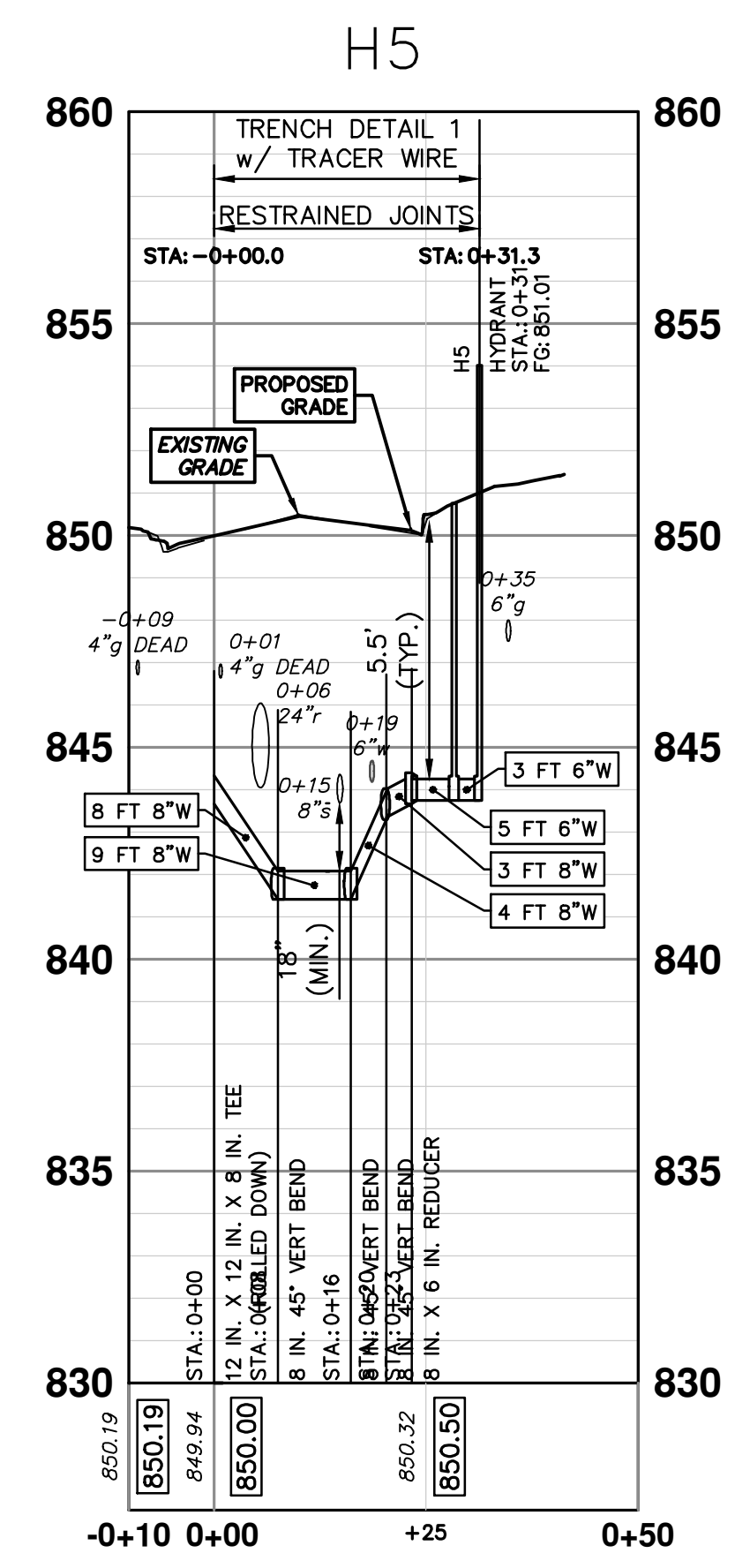
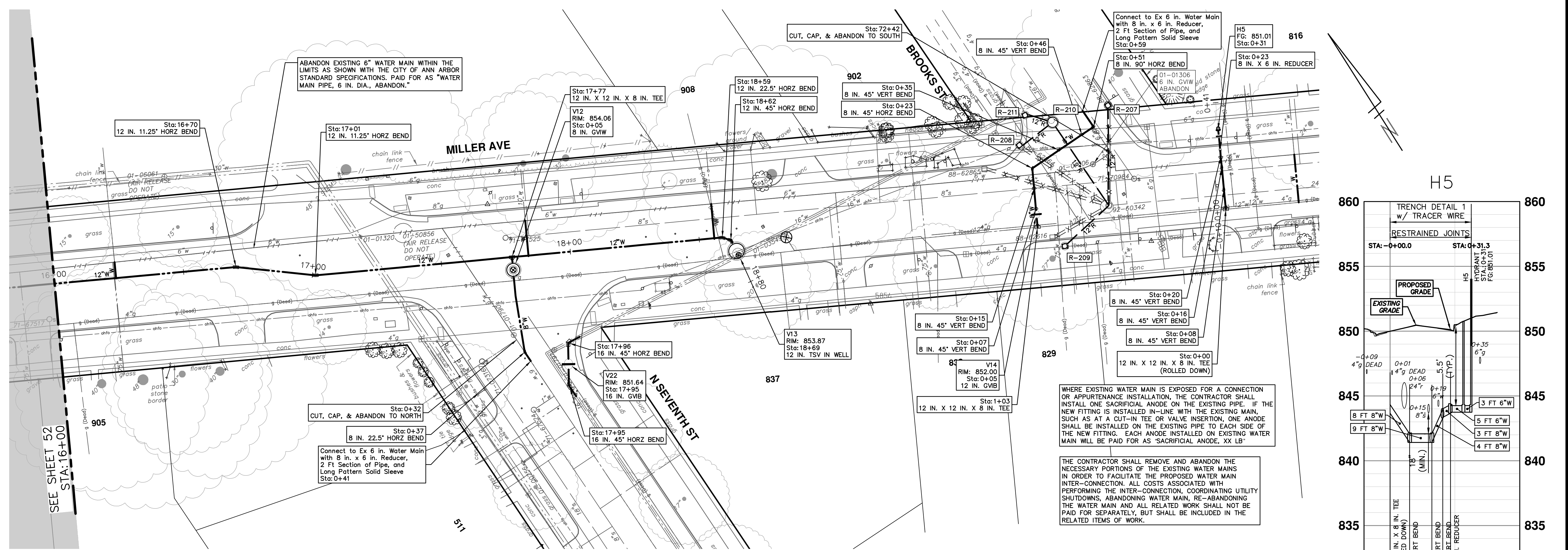
DESCRIPTION: REV.
00 BID SET
4-9-24 DATE
4-9-24 DATE
JKA DRAWN
JKA CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I

STA. 12+50 - STA. 16+00

SHEET NO. 52 OF 130

DRAWING NO. 2022034-52



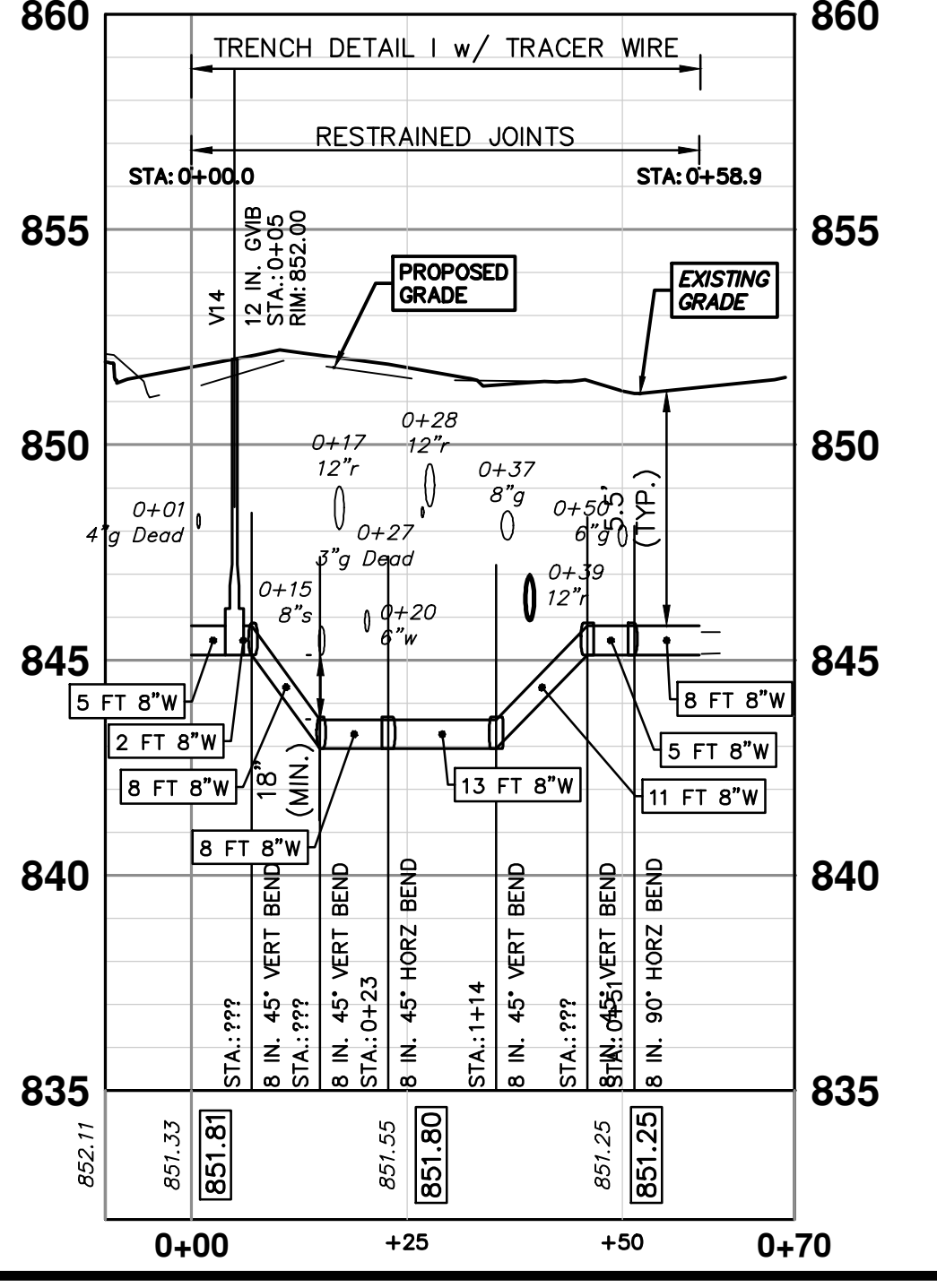
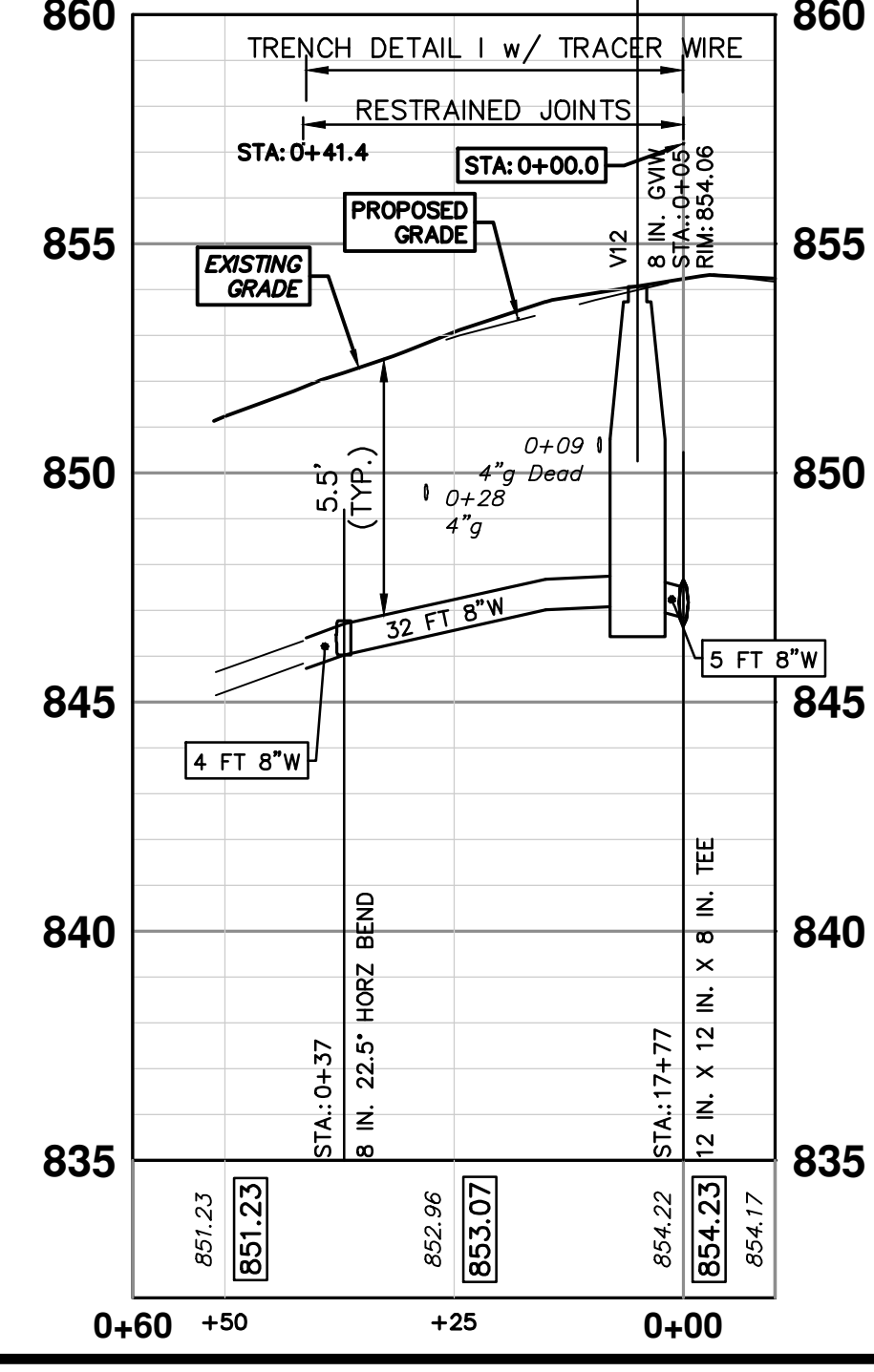
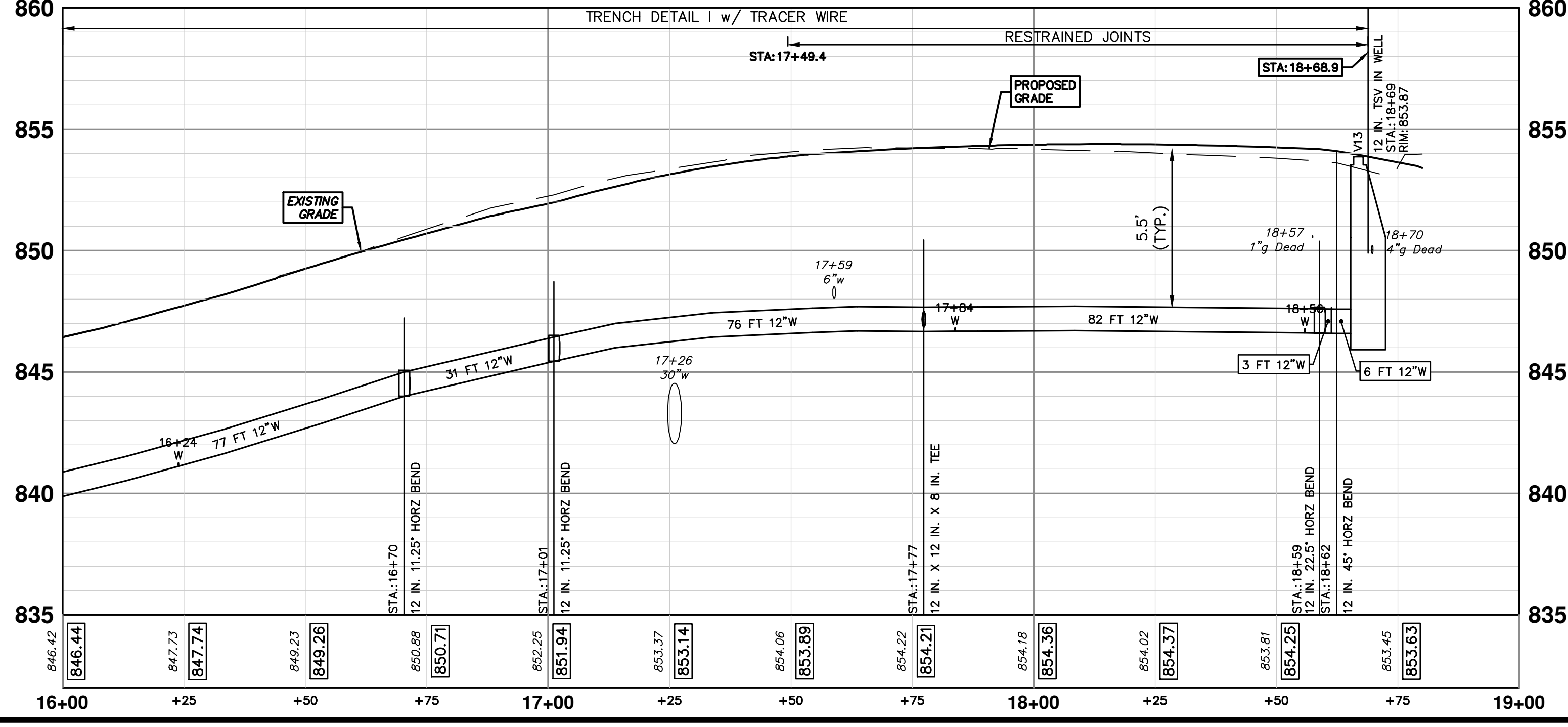
| WATER MAIN STRUCTURES | | | |
|-----------------------|--------------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V12 | 8 in. G.VIB | 0+05 | 854.06 |
| V14 | 12 in. G.VIB | 0+05 | 852.00 |
| V22 | 16 in. G.VIB | 17+95 | 851.64 |
| V13 | 12 IN. TSV in Well | 18+69 | 853.87 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H5 | HYDRANT | 0+31 | 851.01 |

PR WATER - LINDA VISTA TO N SEVENTH

N SEVENTH CONN

BROOKS CONN



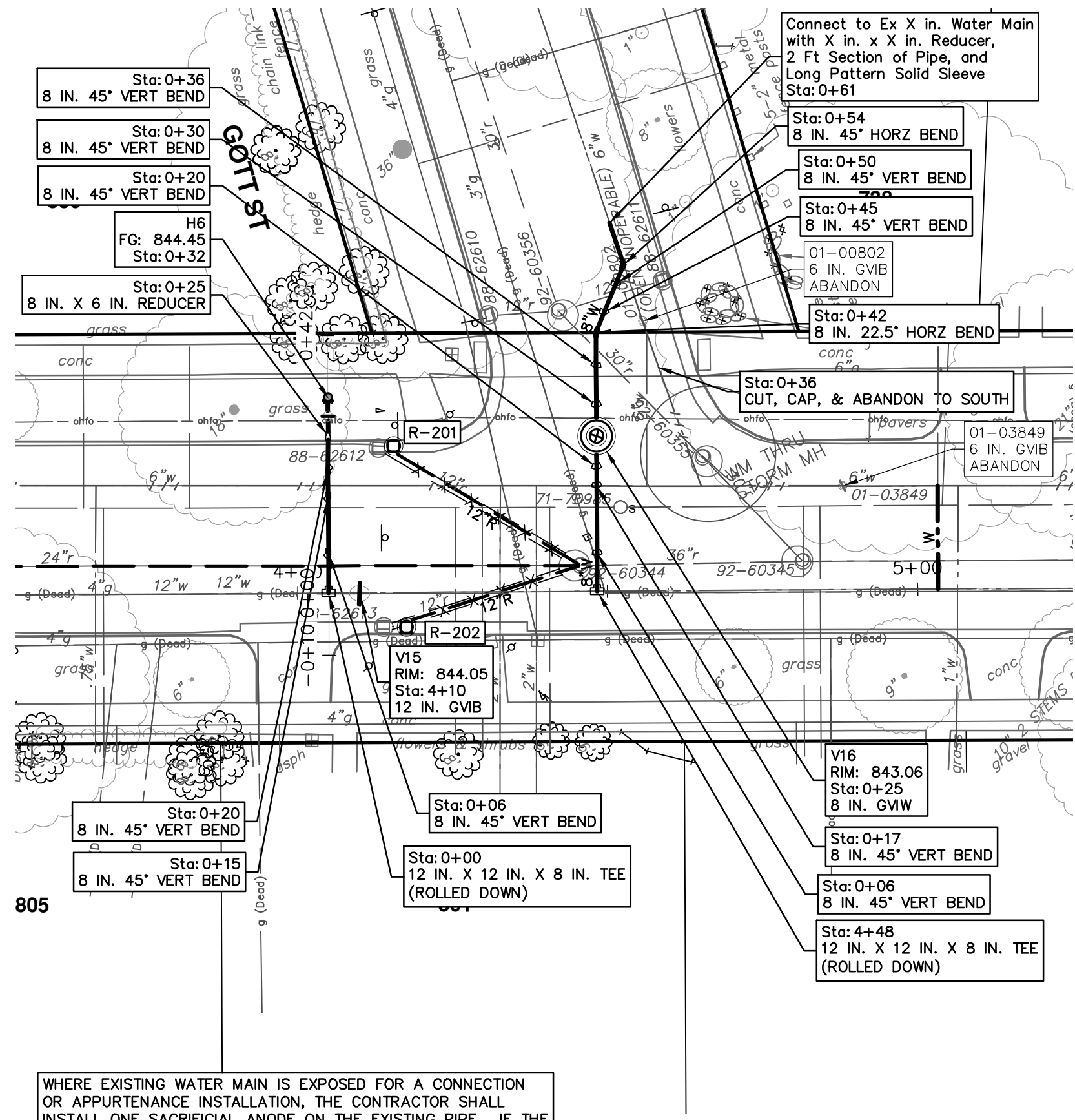
811
Know what's below. Call before you dig.

| NO. | DATE | DESCRIPTION | BY | CHECKED |
|-----|--------|-------------|-----|---------|
| 1 | 4-9-24 | DRAWN | JKA | |
| 2 | | REV. | DO | |

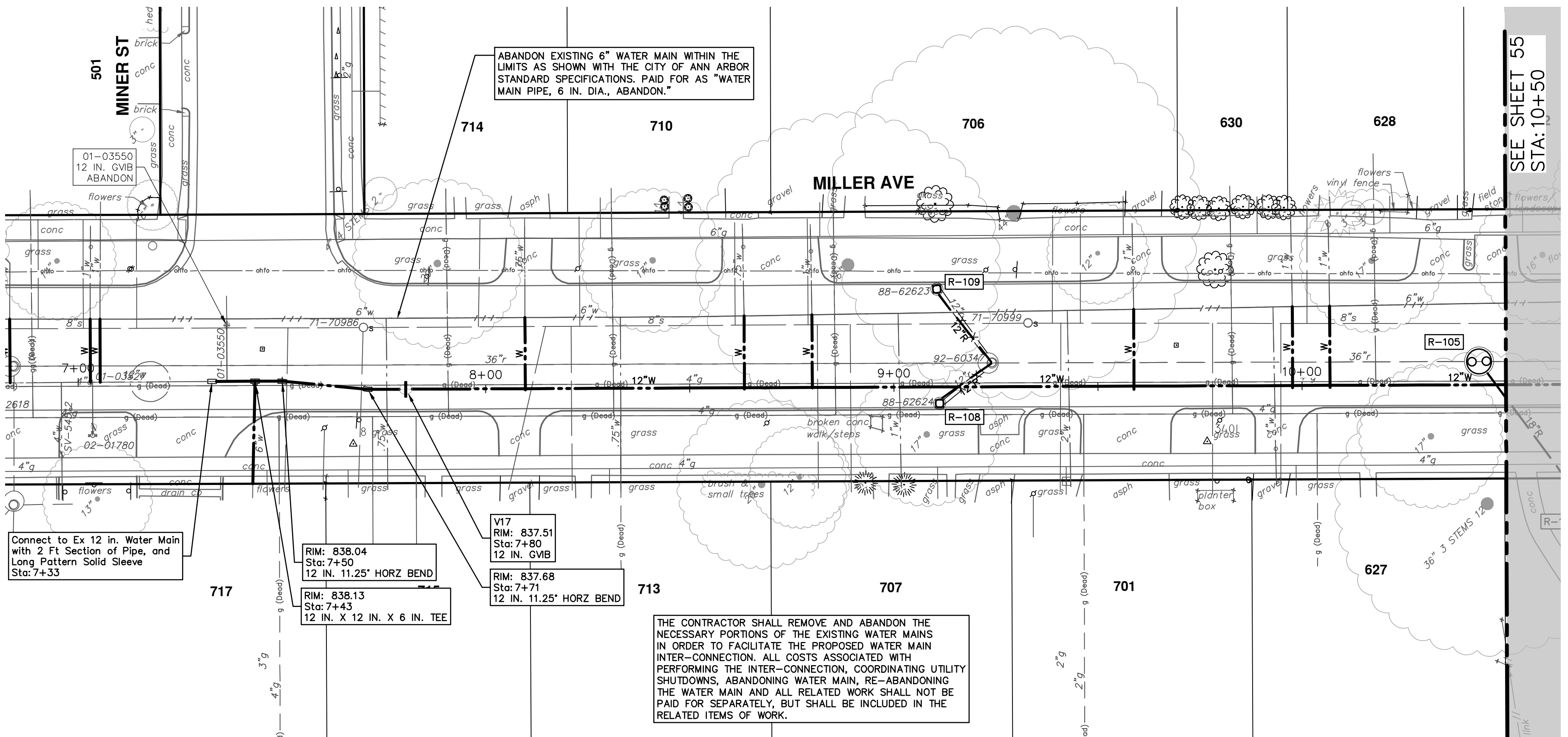
CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR, MI 48106-8647
www.a3gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - NEWPORT TO N SEVENTH - PHASE I
STA. 16+00 - STA. 18+69

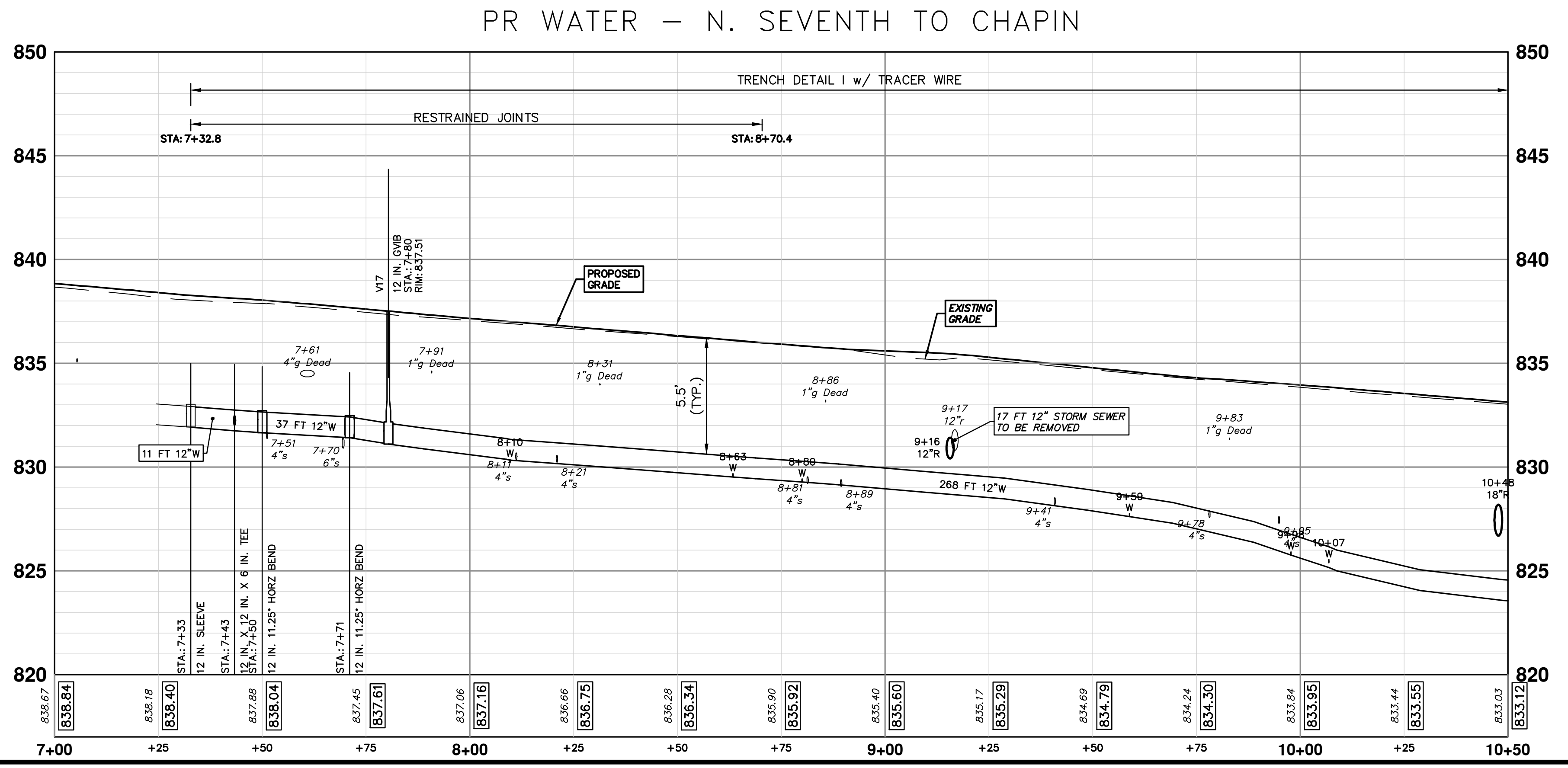
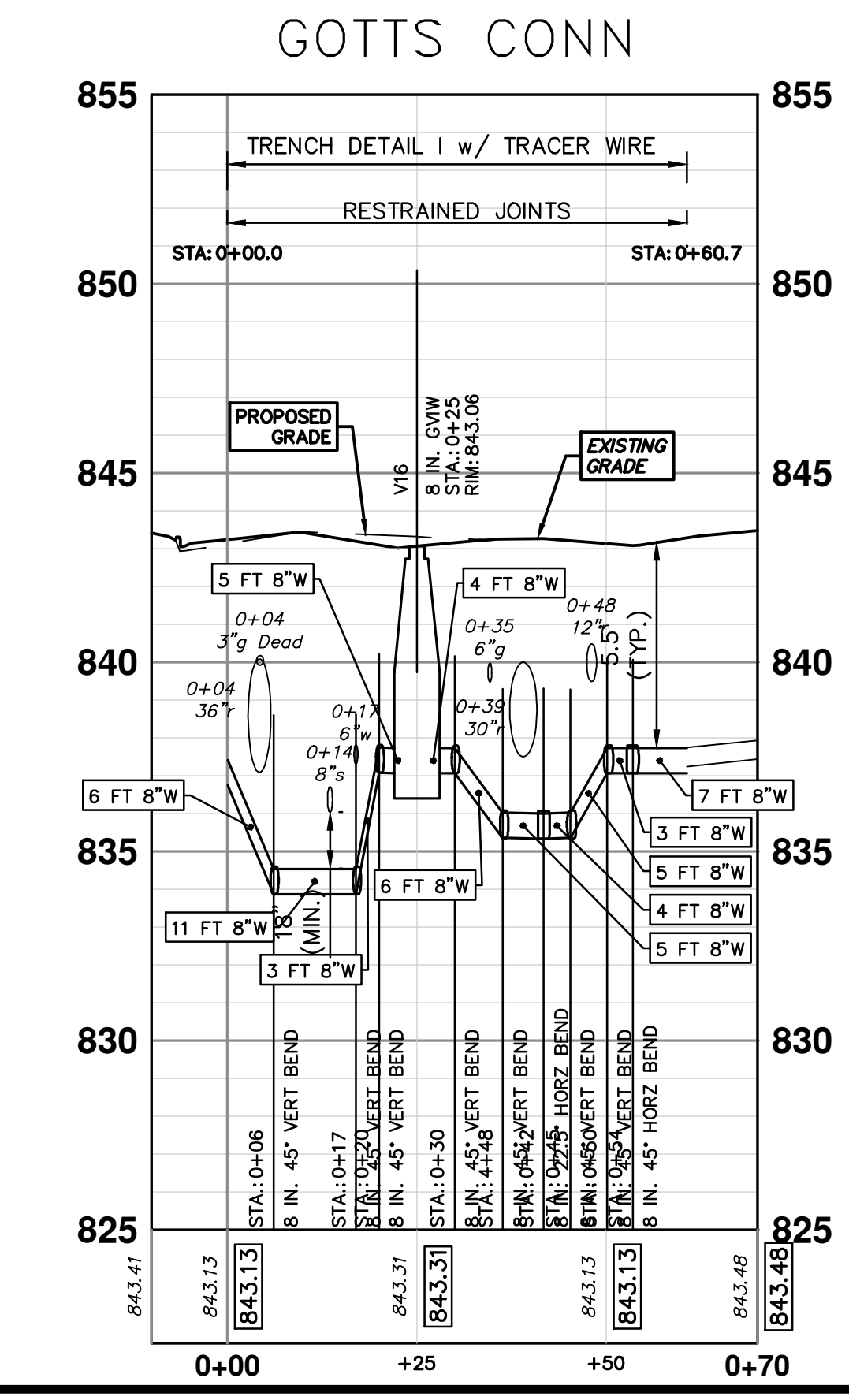
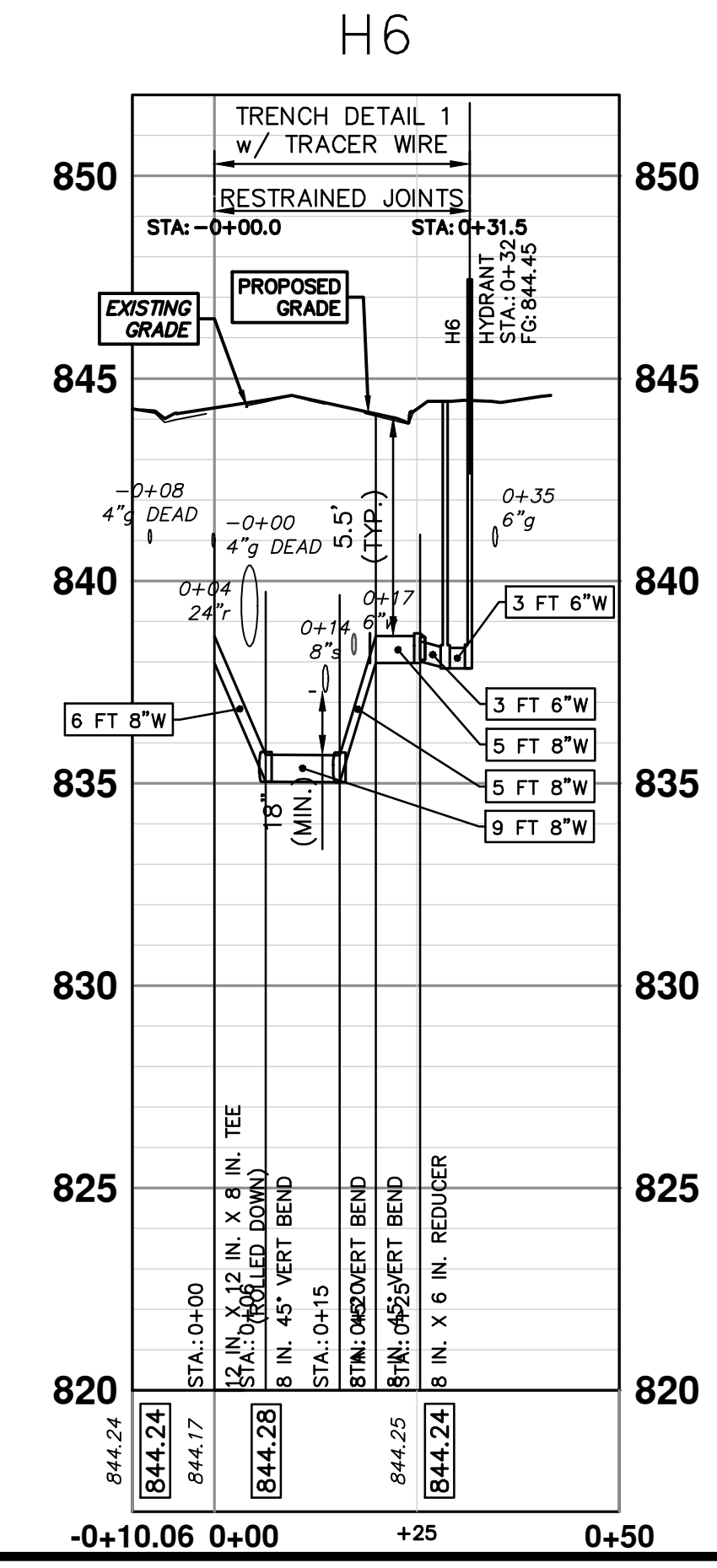
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2022034-53
SHEET NO. 53 OF 130



| STRUCTURE | TYPE | STATION | RIM |
|-----------|-------------|---------|--------|
| V16 | 8 in. GVW | 0+25 | 843.06 |
| V15 | 12 in. GVIB | 4+10 | 844.05 |
| V17 | 12 in. GVIB | 7+80 | 837.51 |



| STRUCTURE | TYPE | STATION | FG |
|-----------|---------|---------|--------|
| H6 | HYDRANT | 0+32 | 844.45 |



SEE SHEET 55
STA: 10+50



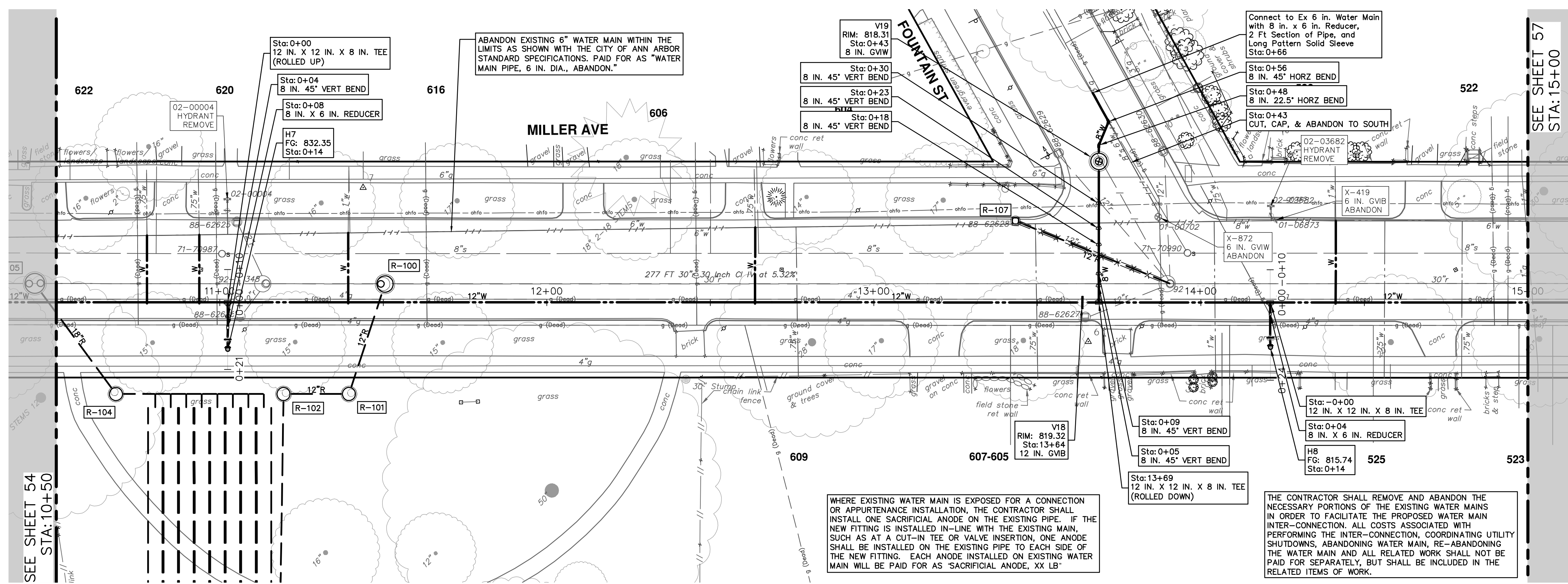
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
ANN ARBOR: 734.754.4110
WWW.A2GOV.ORG



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED WATER MAIN - N SEVENTH TO CHAPIN - PHASE II
STA. 7+33 - STA. 10+50
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2022034-54
SHEET NO. 54 OF 130

| REV. | DATE | DESCRIPTION |
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| 03 | | CHECKED |

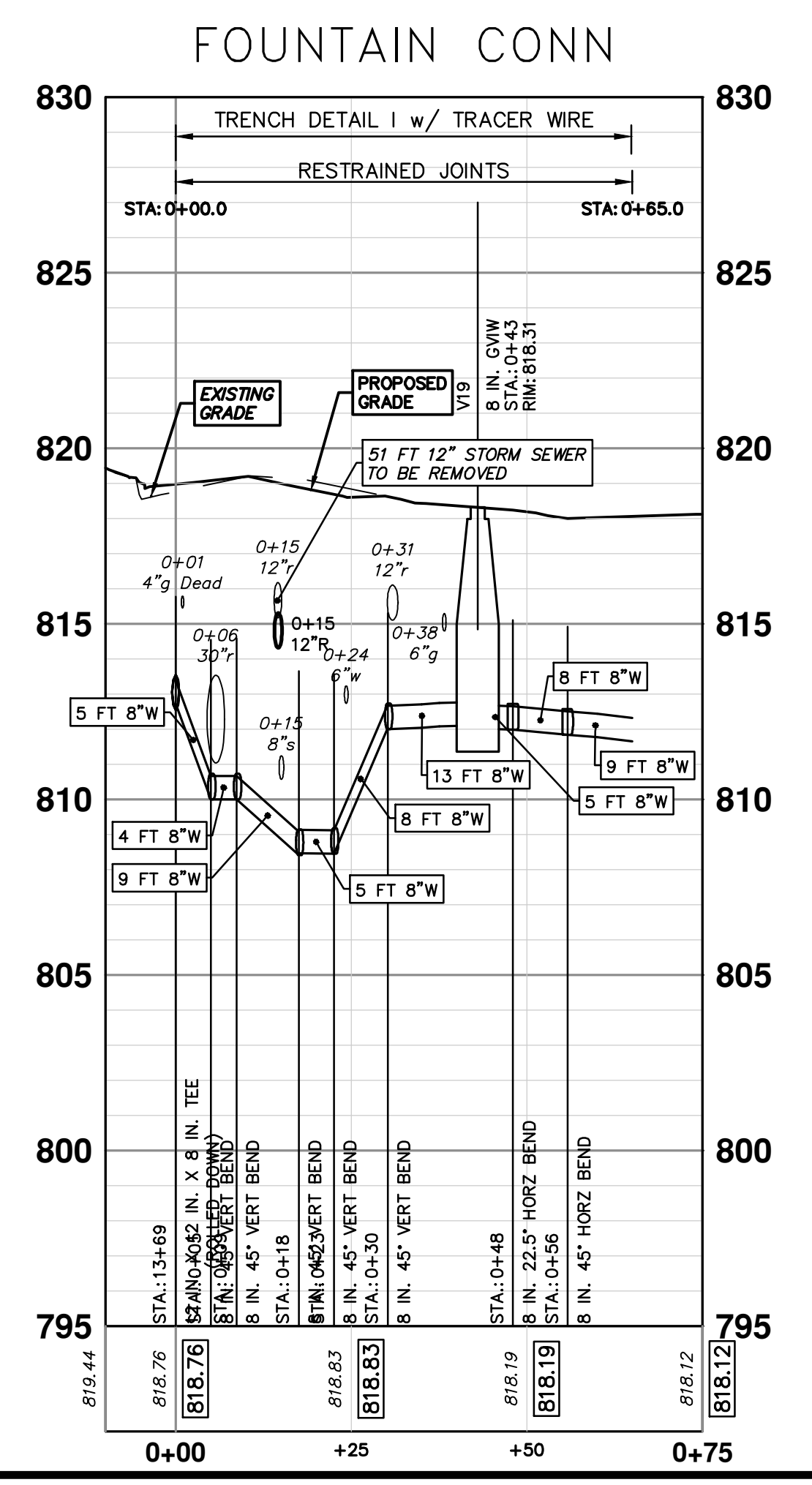
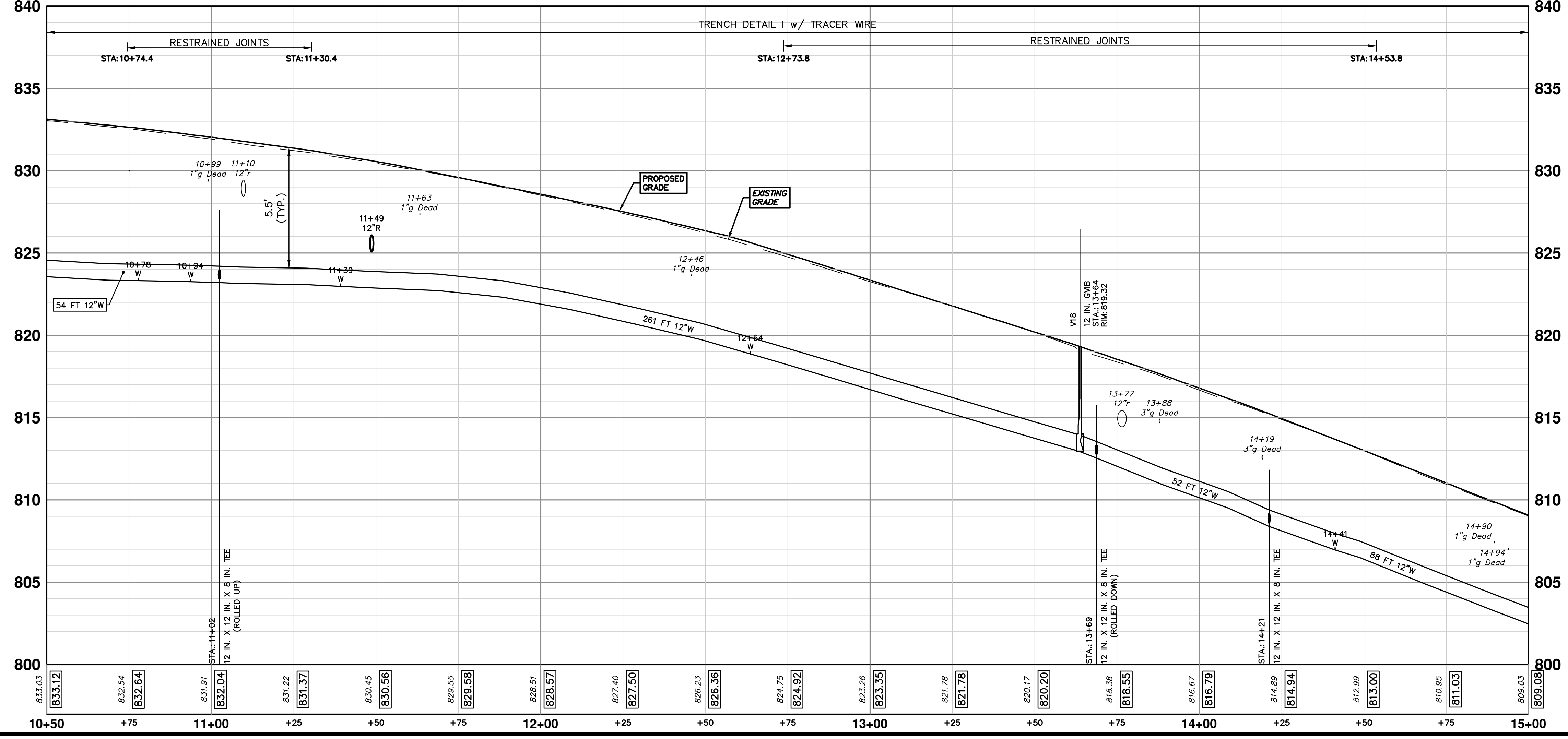
R:\202034 Miller Ave Rehab\Plan Production\202034Water.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24




| WATER MAIN STRUCTURES | | | |
|-----------------------|-------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V19 | 8 in. GVW | 0+43 | 818.31 |
| V18 | 12 in. GVIB | 13+64 | 819.32 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H7 | HYDRANT | 0+14 | 832.35 |
| H8 | HYDRANT | 0+14 | 815.74 |


PR WATER - N. SEVENTH TO CHAPIN





Know what's below.
Call before you dig.

| REV. | DATE | DESCRIPTION |
|------|--------|-------------|
| 00 | 4-9-24 | BID SET |
| 01 | | DRAWN |
| 02 | | CHECKED |

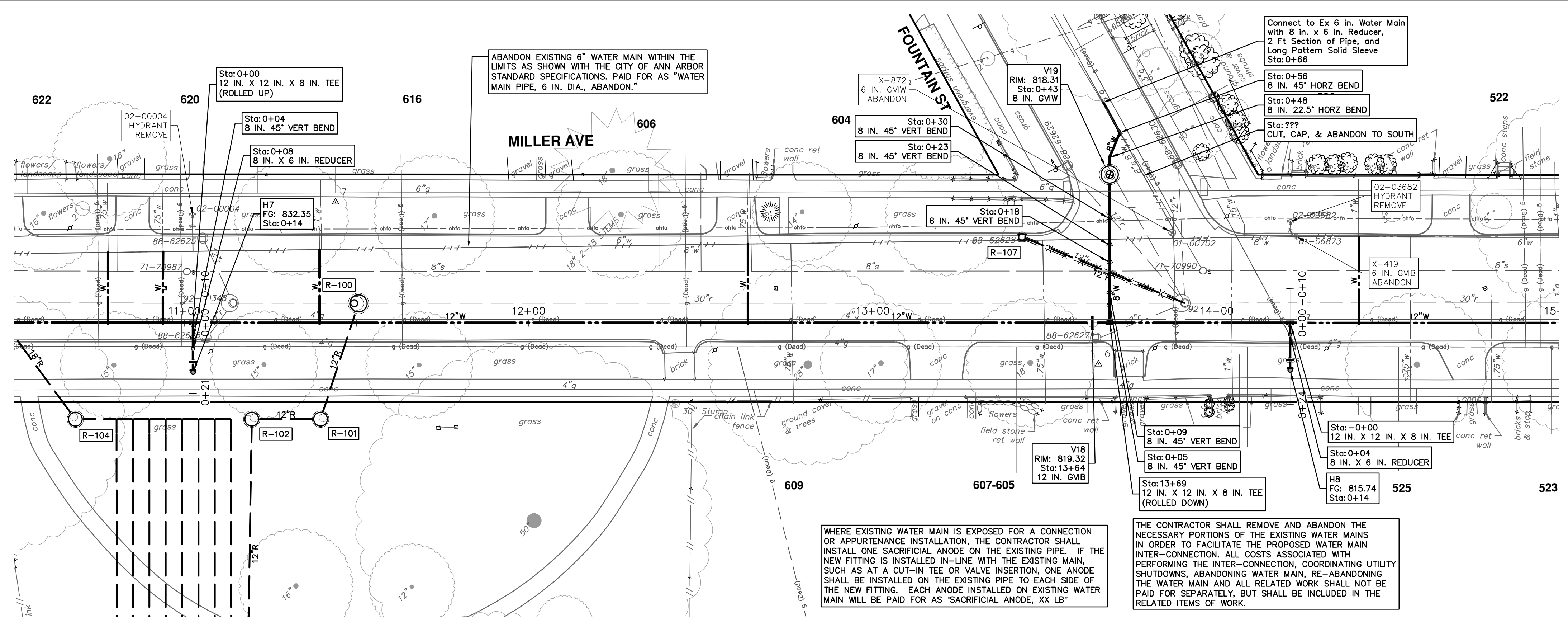


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
 PROPOSED WATER MAIN - N SEVENTH TO CHAPIN - PHASE II

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 4'

DRAWING NO. 2022034-55
 SHEET NO. 55 OF 130

STA. 10+50 - STA 15+00

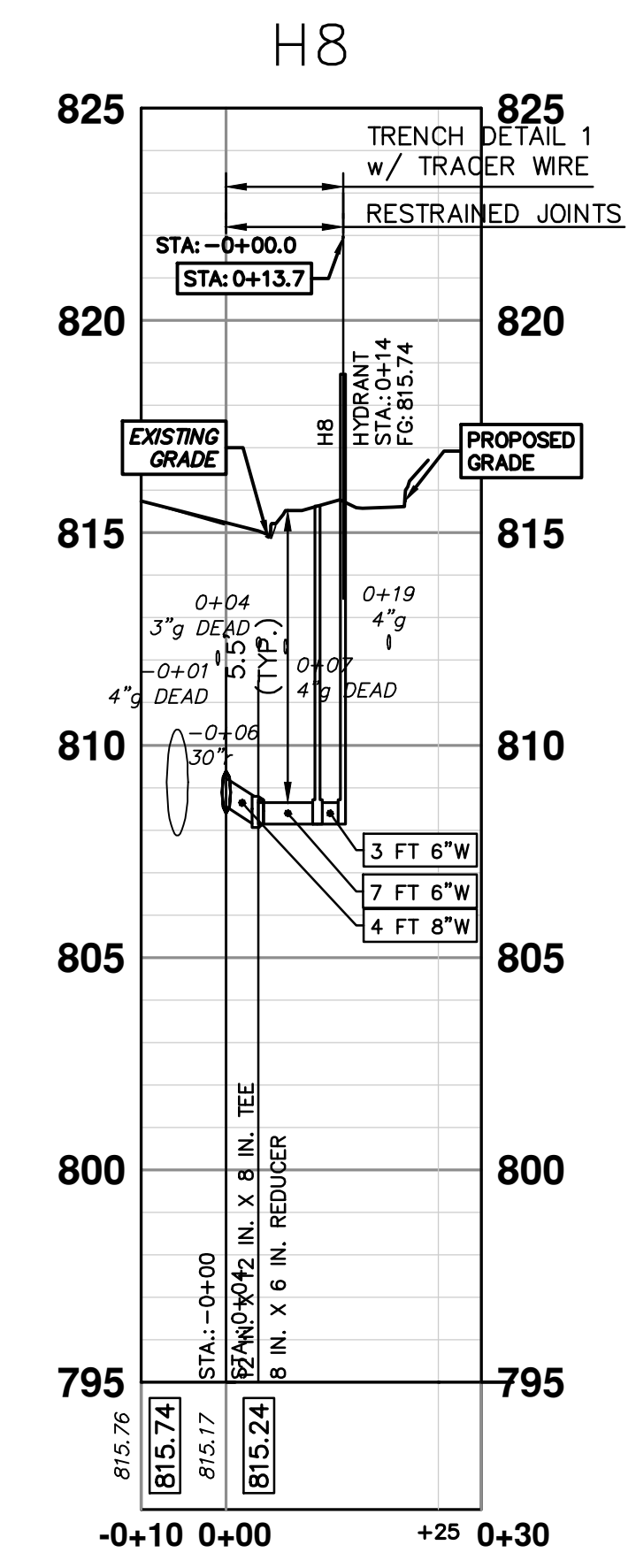
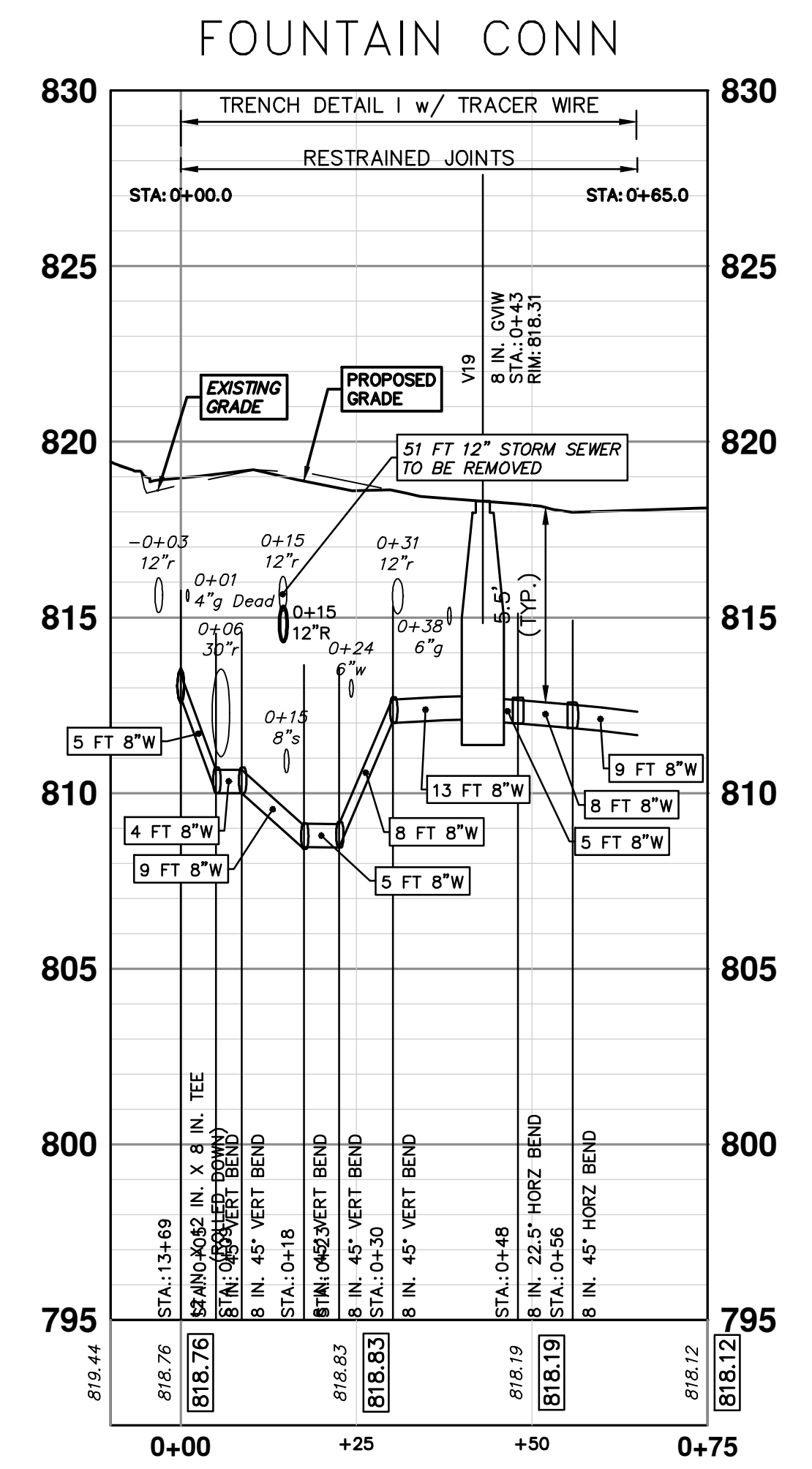
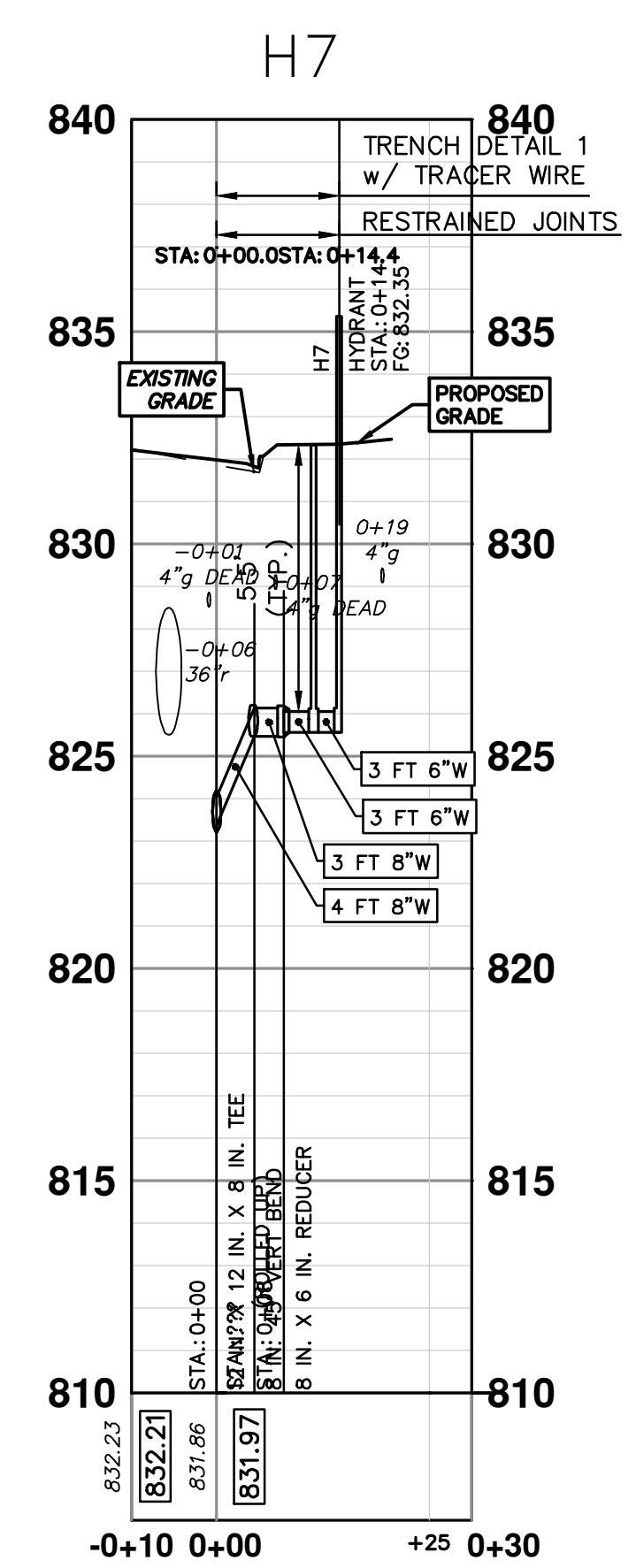



| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H7 | HYDRANT | 0+14 | 832.35 |
| H8 | HYDRANT | 0+14 | 815.74 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|-----------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V19 | 8 in. GVW | 0+43 | 818.31 |

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE ON EXISTING WATER MAIN WILL BE PAID FOR AS 'SACRIFICIAL ANODE, XX LB'

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.





Know what's below.
Call before you dig.


DATE: 4-9-24
DRAWN: JKA
CHECKED: JKA

DESCRIPTION

REV. 00 BID SET

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
www.a2gov.org



SCALE PLAN: 1" = 20'

PROFILE: 1" = 4'

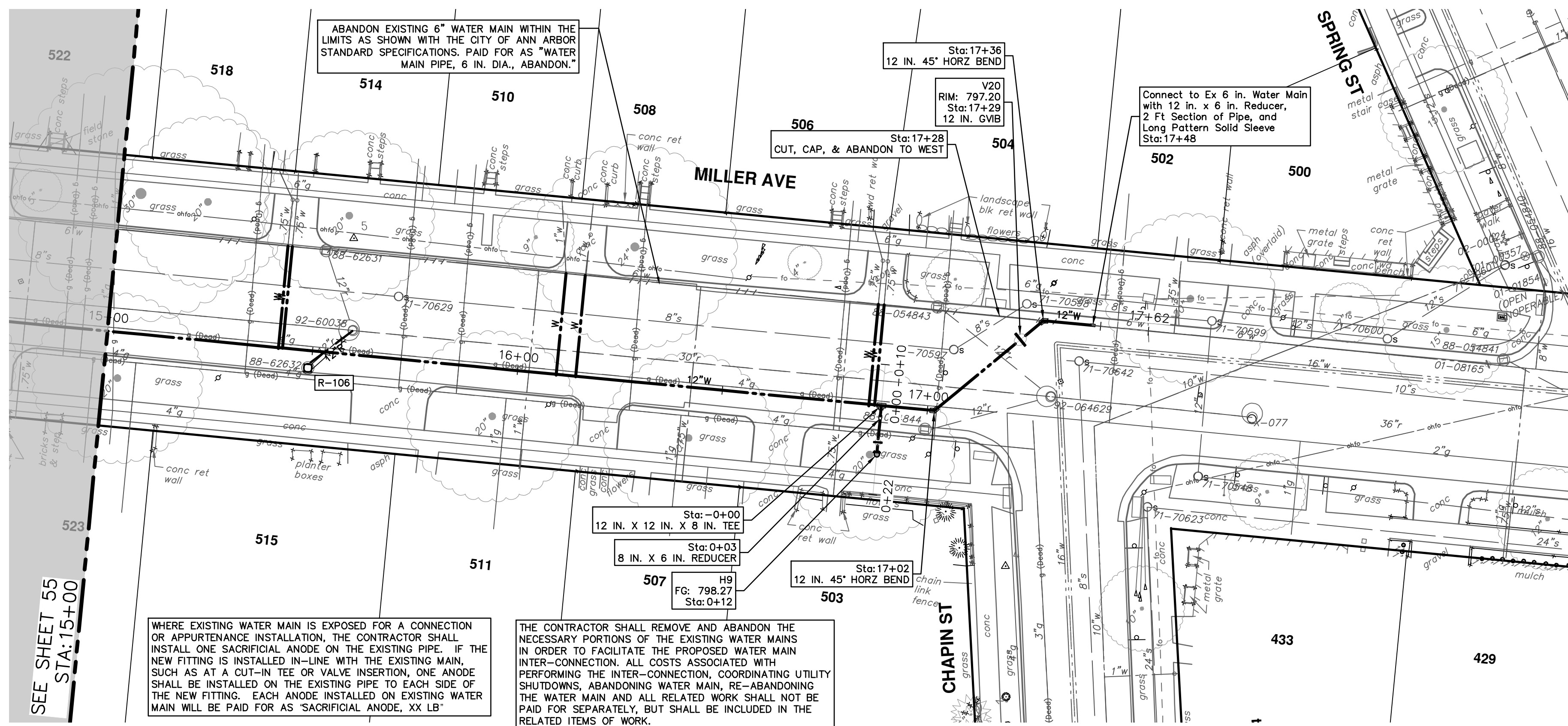
PROPOSED WATER MAIN - N SEVENTH TO CHAPIN - PHASE II

FOUNTAIN CONNECTION AND H7 AND H8 PROFILES

SHEET No.

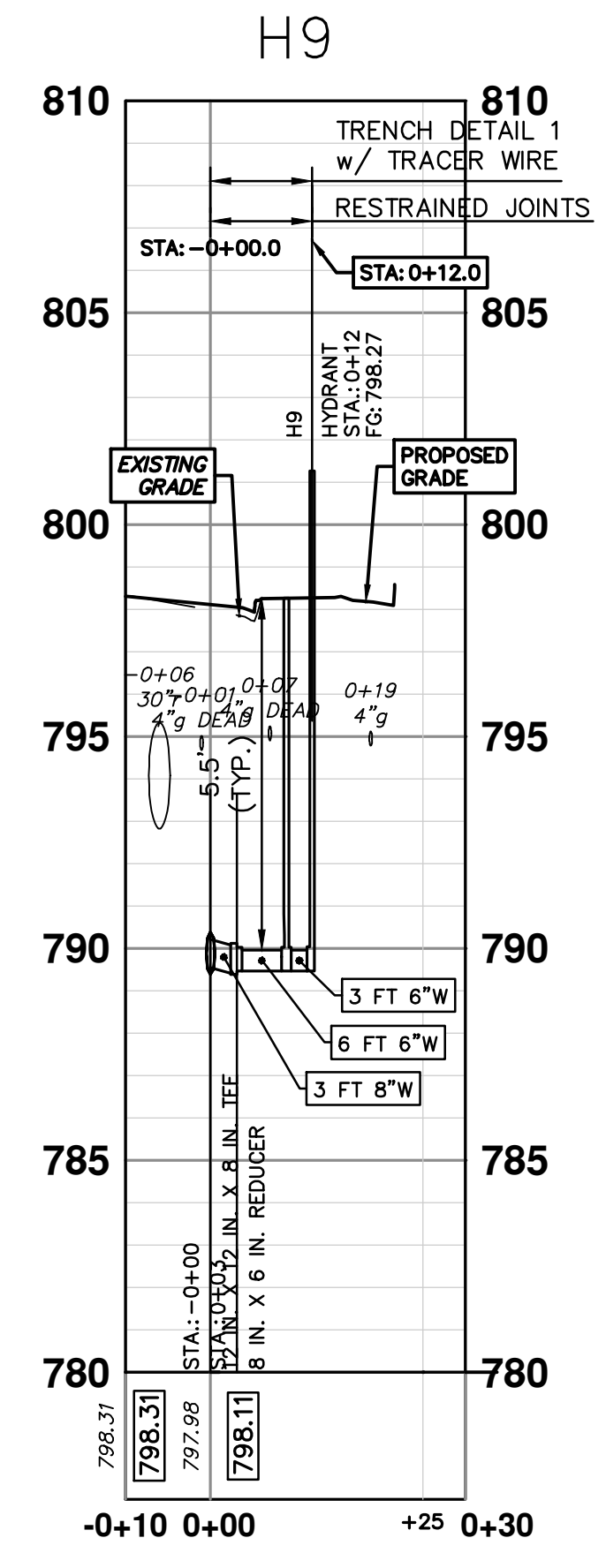
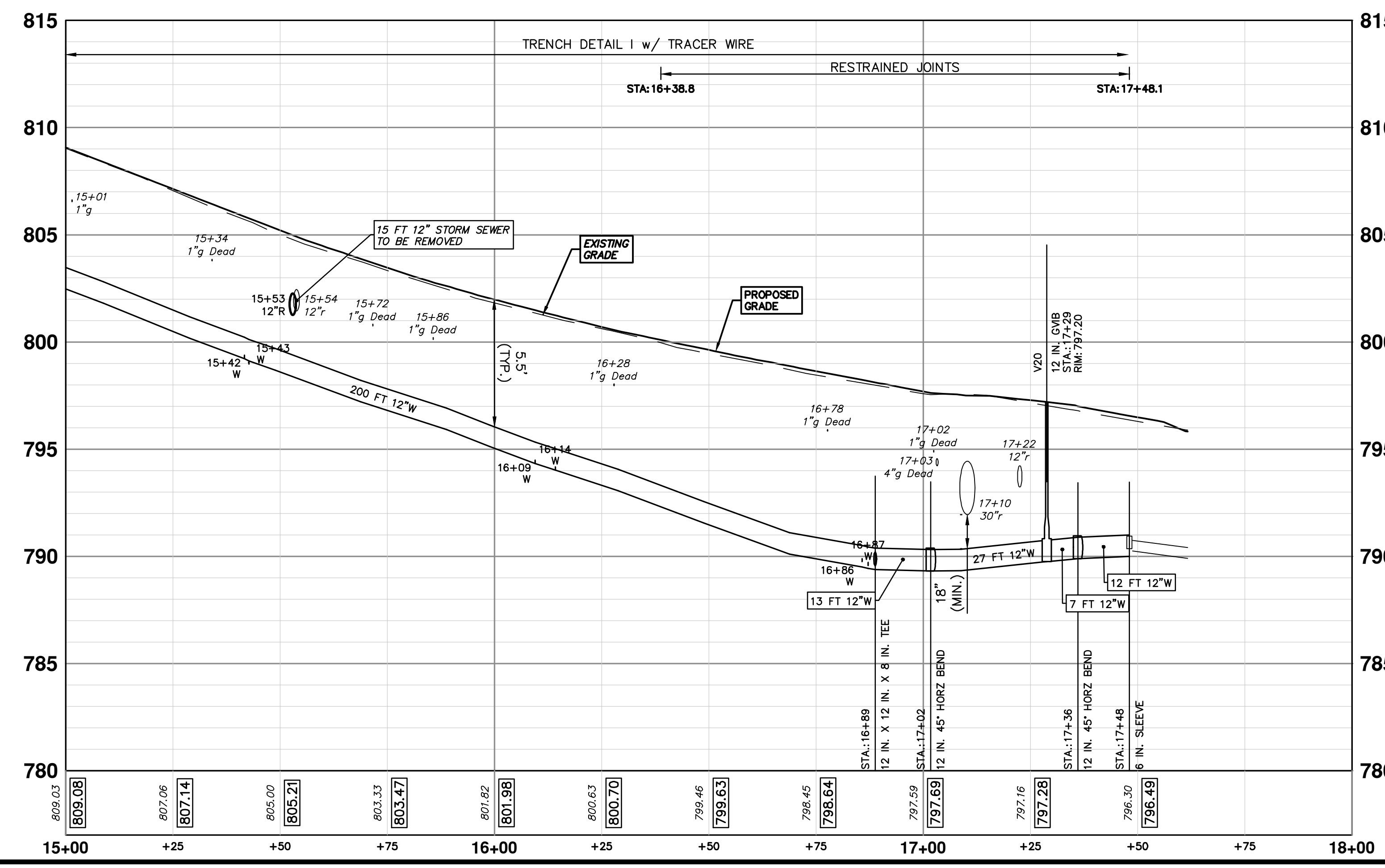
DRAWING No. 2022034-56

56 OF 130



| WATER MAIN STRUCTURES | | | |
|-----------------------|-------------|---------|--------|
| STRUCTURE | TYPE | STATION | RIM |
| V20 | 12 in. GVIB | 17+29 | 797.20 |

| WATER MAIN STRUCTURES | | | |
|-----------------------|---------|---------|--------|
| STRUCTURE | TYPE | STATION | FG |
| H9 | HYDRANT | 0+12 | 798.27 |



Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

PROPOSED WATER MAIN - N SEVENTH TO CHAPIN - PHASE II

STA. 15+00 - STA. 17+48

SCALE PLAN: 1" = 20'

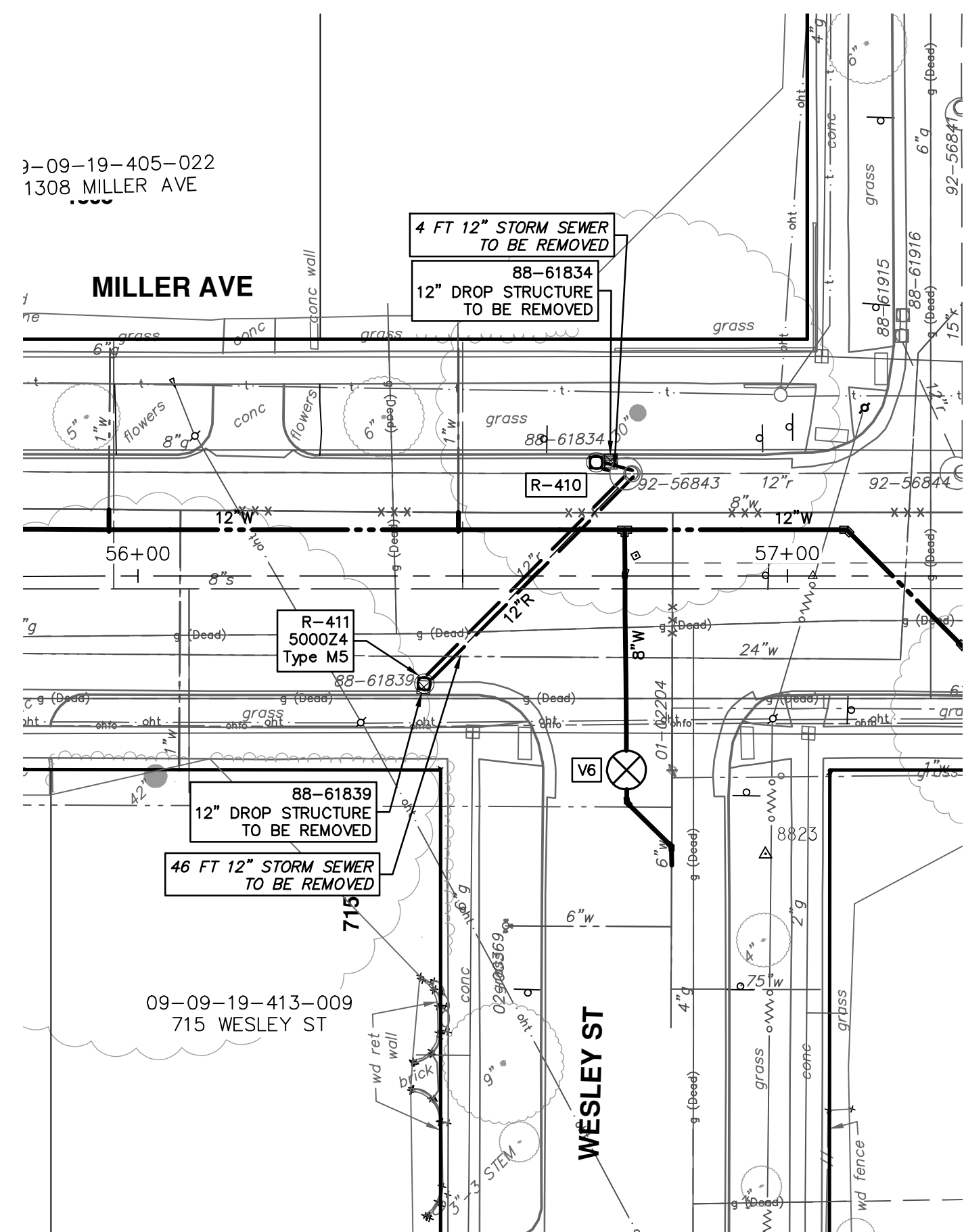
PROFILE: 1" = 4'

DRAWING NO. 2022034-57

SHEET NO. 57 OF 130

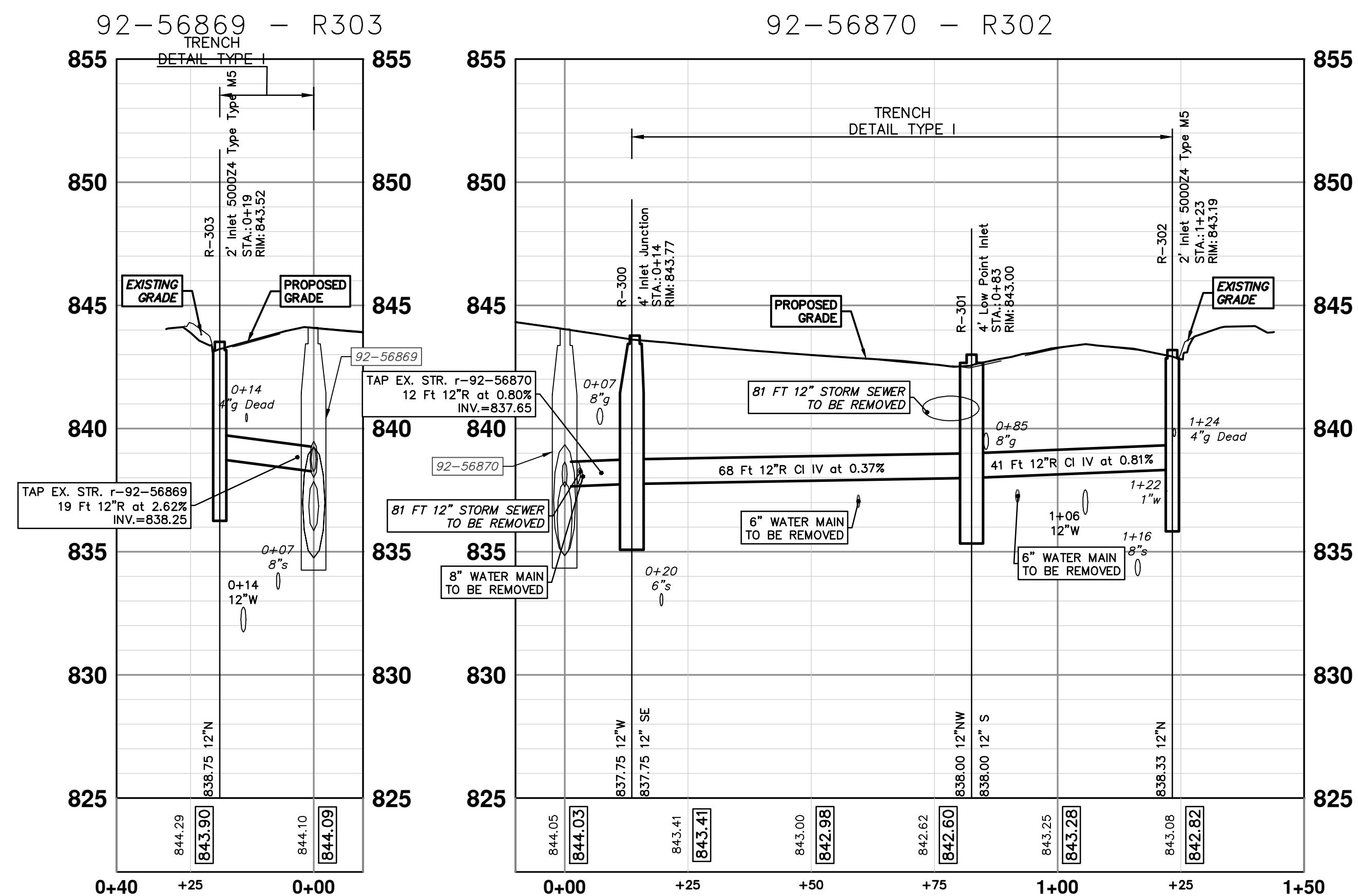
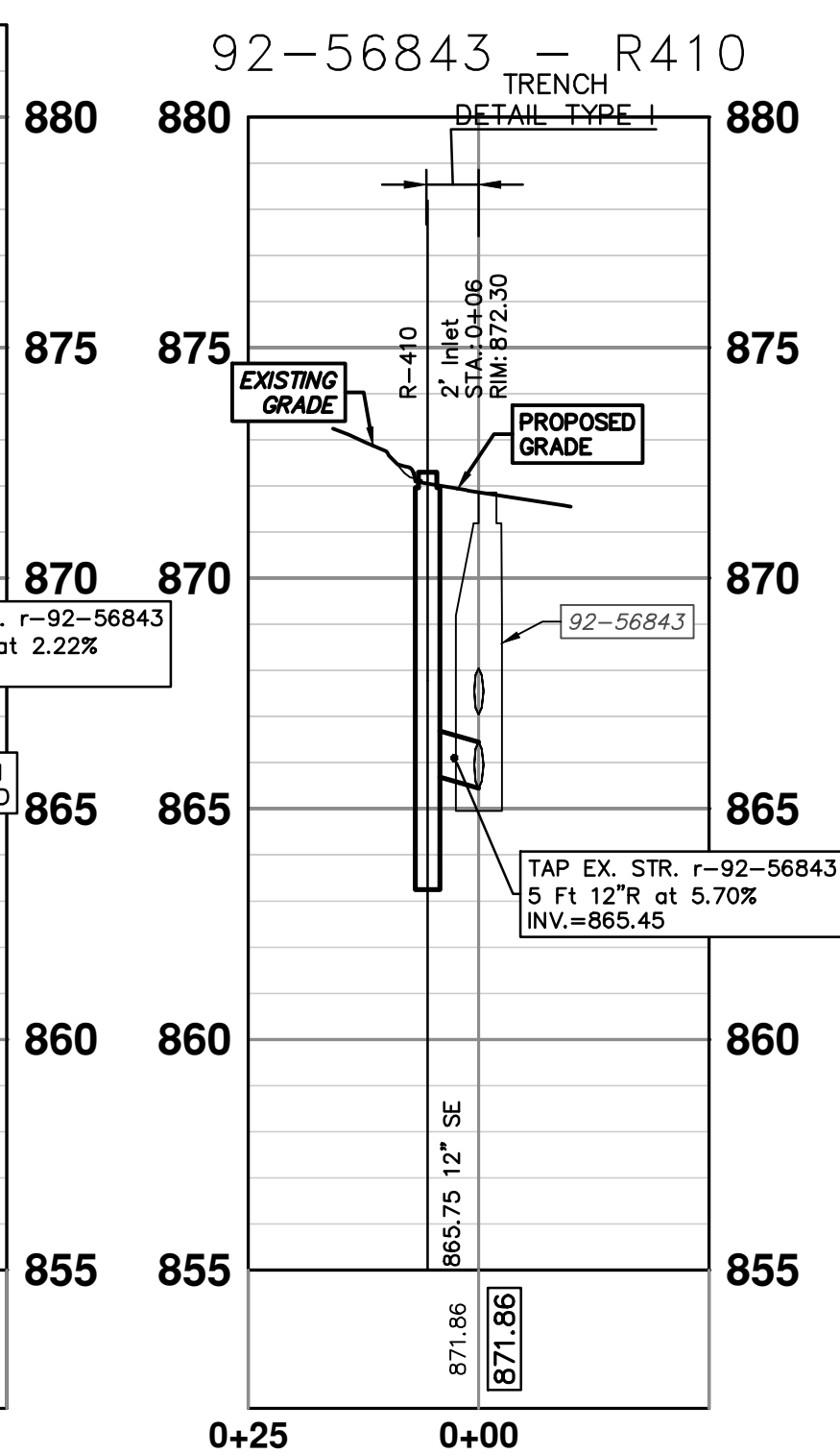
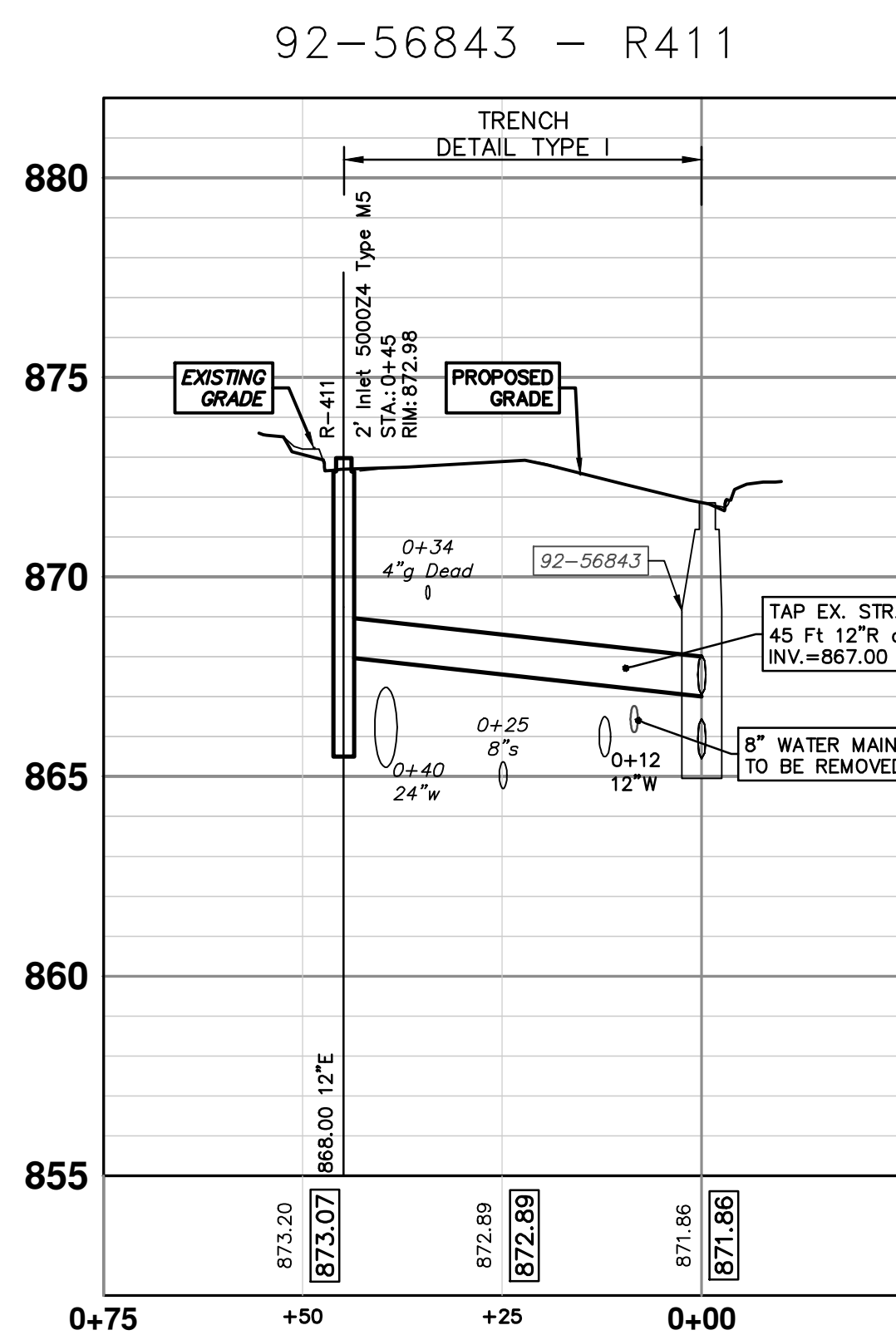
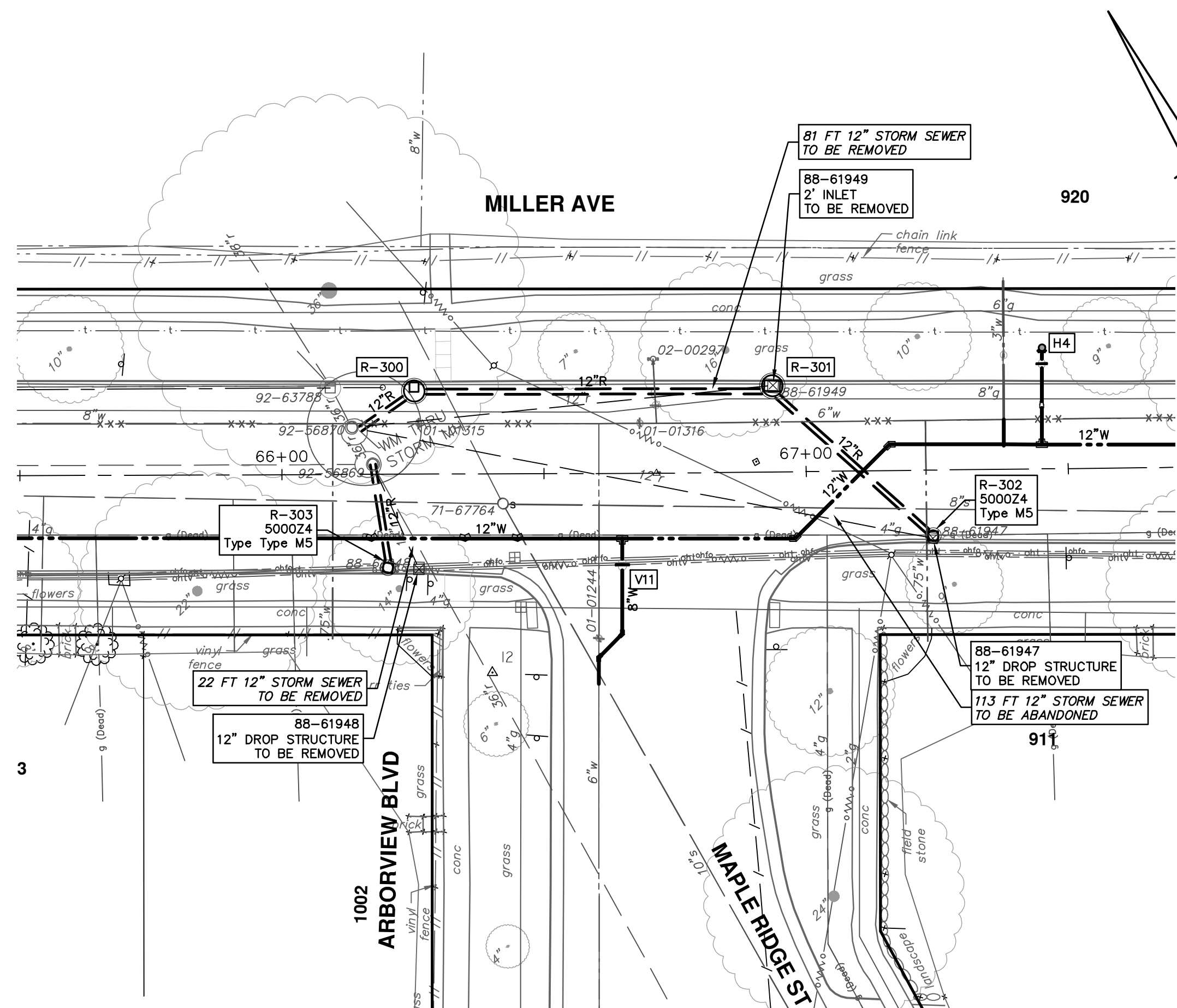
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R:\2022034_Miller Ave Rehab\Plan Production\2022034Strm.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



| STRUCTURE | DEPTH (Feet) | REMOVE |
|-----------|--------------|----------------------------------|
| 88-61948 | 4.71 | 12" Drop Structure TO BE REMOVED |
| 88-61949 | 2.00 | 2' Inlet TO BE REMOVED |
| 88-61947 | 3.22 | 12" Drop Structure TO BE REMOVED |
| 88-61834 | 2.90 | 12" Drop Structure TO BE REMOVED |
| 88-61839 | 2.56 | 12" Drop Structure TO BE REMOVED |

| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|--------------------|--------|-------------------------------|--------------|------|
| R-300 | 0+14 | 4' Inlet Junction | 843.77 | 12" SE 837.75 12" W 837.75 | 8.02 | 2' |
| R-301 | 0+83 | 4' Low Point Inlet | 843.00 | 12" S 838.00 12" NW 838.00 | 7.00 | 2' |
| R-302 | 1+23 | 2' Inlet | 843.19 | 12" N 838.33 | 6.86 | 2' |
| R-303 | 0+19 | 2' Inlet | 843.52 | 12" N 838.75 | 6.77 | 2' |
| R-410 | 0+06 | 2' Inlet | 872.30 | 12" SE 865.75 | 8.55 | 2' |
| R-411 | 0+45 | 2' Inlet | 872.98 | 12" E 868.00 | 6.98 | 2' |



Know what's below. Call Before you dig.

| NO. | DATE | DESCRIPTION | BY | CHKD |
|-----|--------|-------------|-----|---------|
| 1 | 4-9-24 | DRAWN | JKA | CHECKED |
| 2 | | REV. | DO | BID SET |

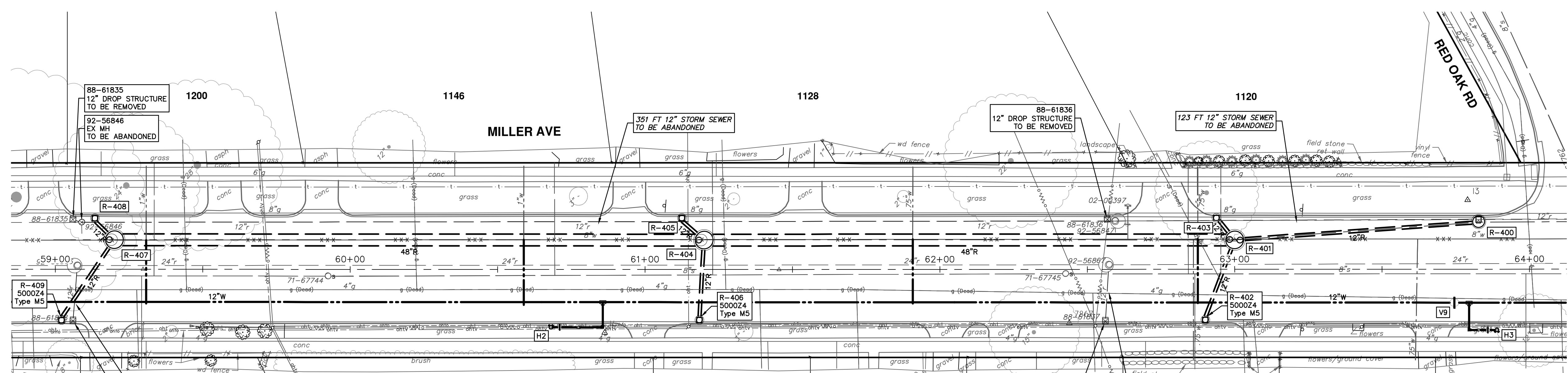
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
ANN ARBOR 734-794-4410
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CITY OF ANN ARBOR - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED STORM SEWER
R300,R301,R302,R303,R410,R411

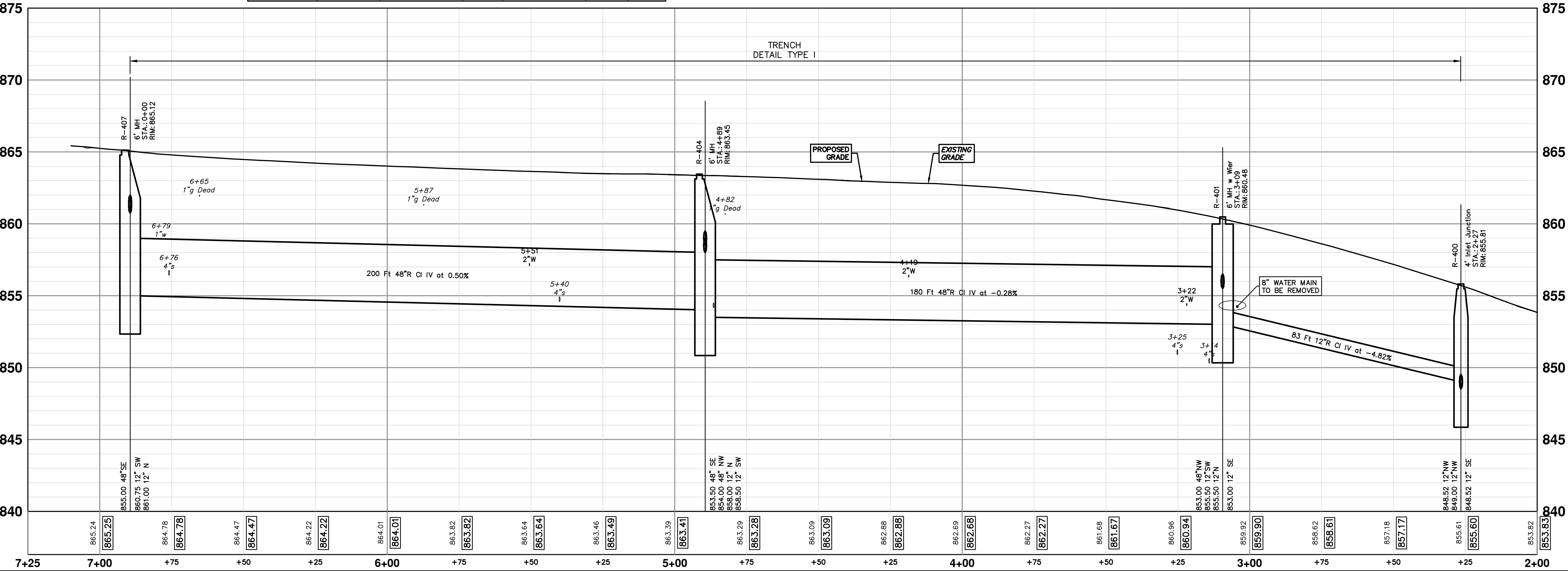
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2022034-58

R:\2022034 Miller Ave Rehab\Plan Production\2022034Strm.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|-------------------|--------|---|--------------|------|
| R-400 | 2+27 | 4' Inlet Junction | 855.81 | 12" SE 848.52 12" NW 848.52 12" NW 849.00 | 9.29 | 2' |
| R-401 | 3+09 | 6' MH w Wier | 860.48 | 12" SE 853.00 48" NW 853.00 12" SW 855.50 12" N 855.50 | 9.48 | 2' |
| R-404 | 4+89 | 6' MH | 863.45 | 48" SE 853.50 48" NW 854.00 12" N 858.00 12" SW 858.50 | 11.95 | 2' |
| R-407 | 0+00 | 6' MH | 865.12 | 12" SW 860.75 12" N 861.00 48" SE 855.00 | 12.12 | 2' |

92-63788 - R407



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

DATE: 4-9-24
DRAWN: AZD
CHECKED: JKA

DESCRIPTION: 92-63788 - R407

REV: 00
BID SET

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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
www.a2gov.org

ANN ARBOR
MICHIGAN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED STORM SEWER

R400, R401, R404, R407

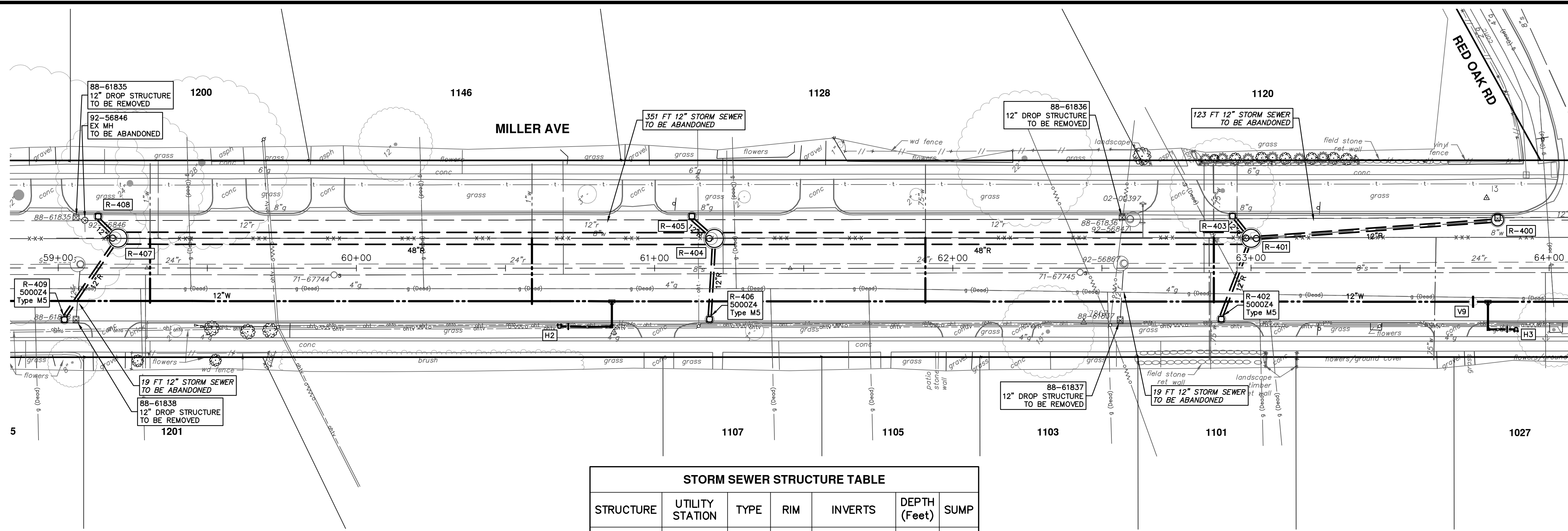
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO.: 2022034-59

SHEET No. 59 OF 130

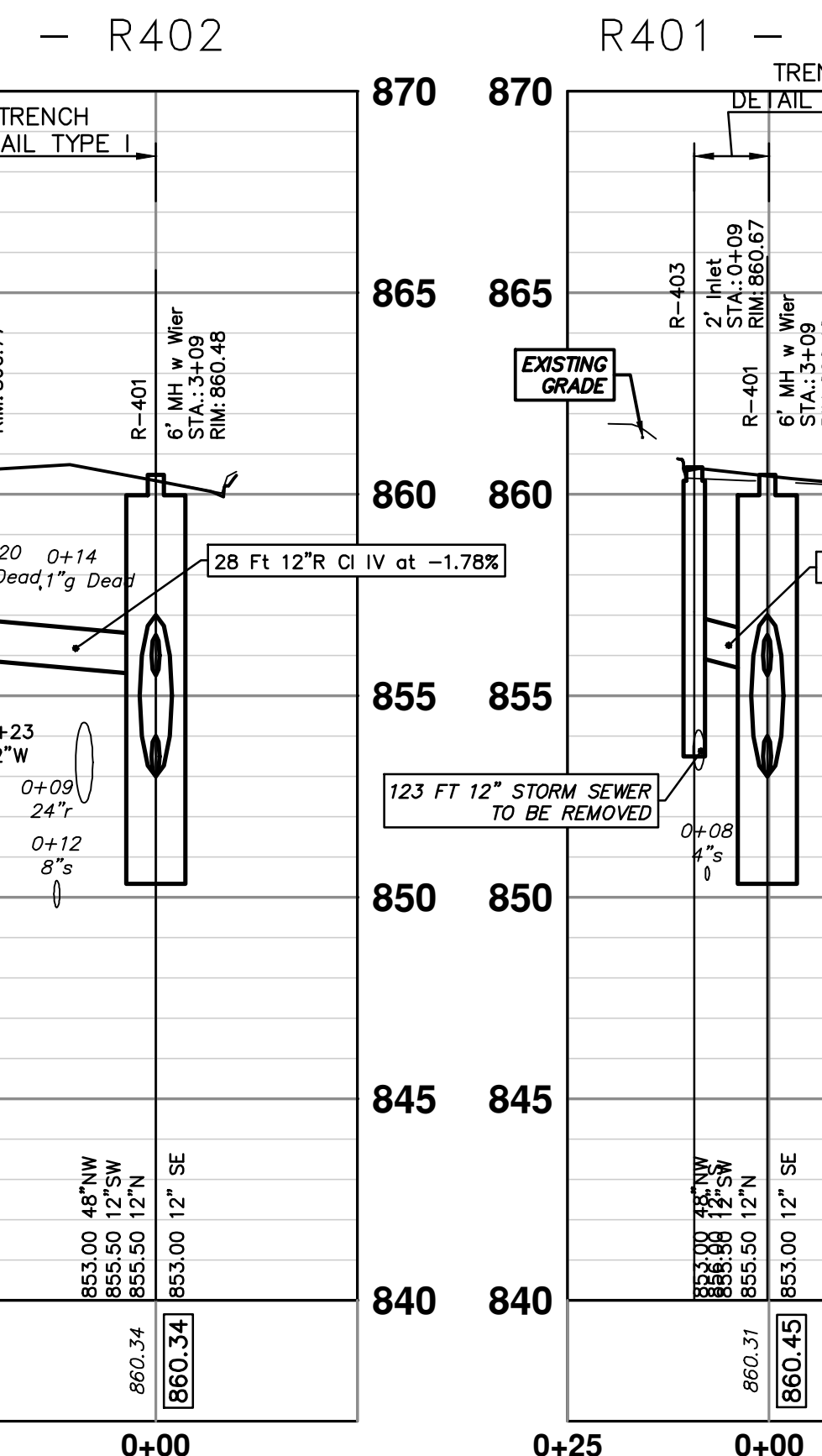
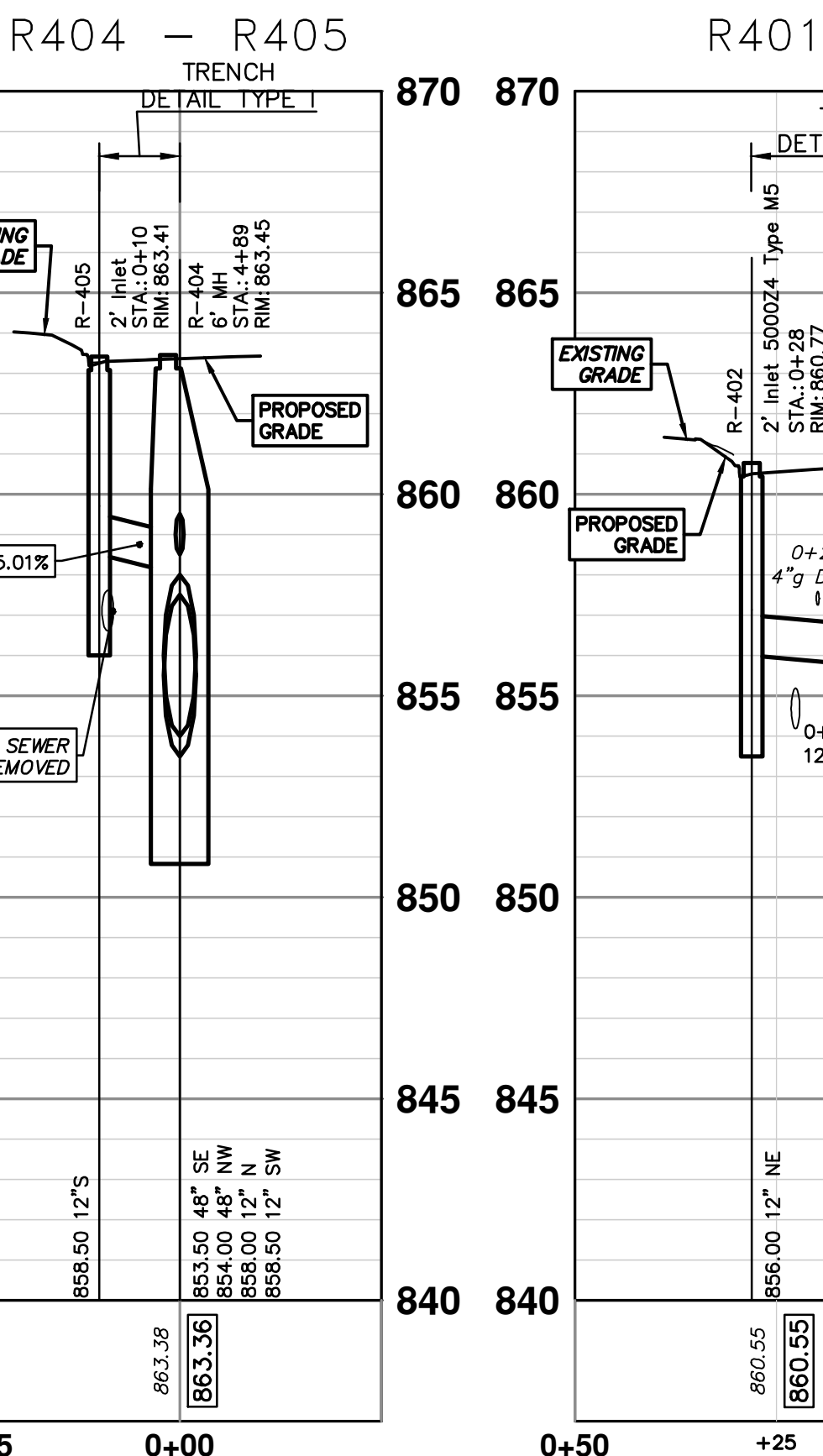
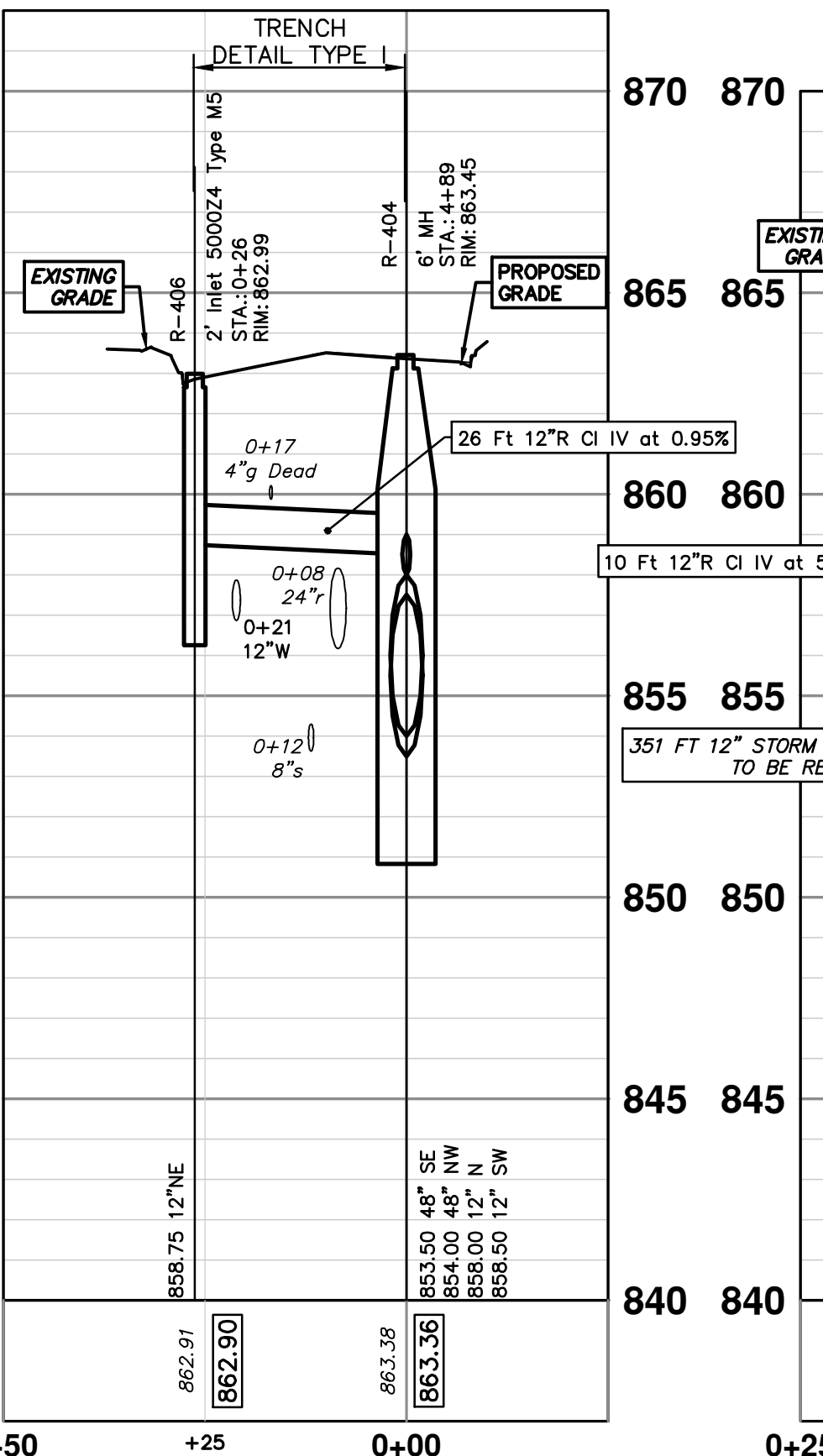
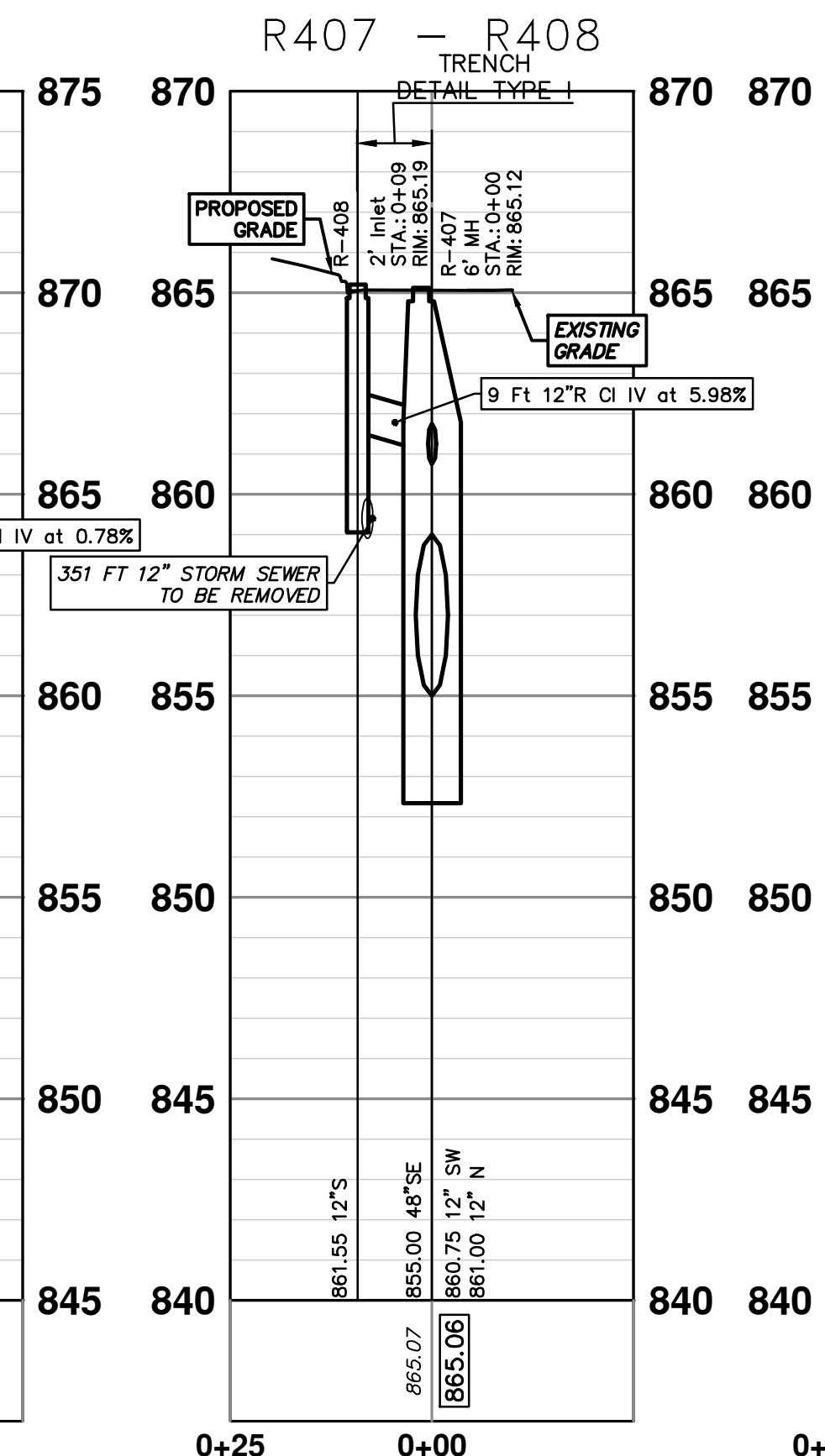
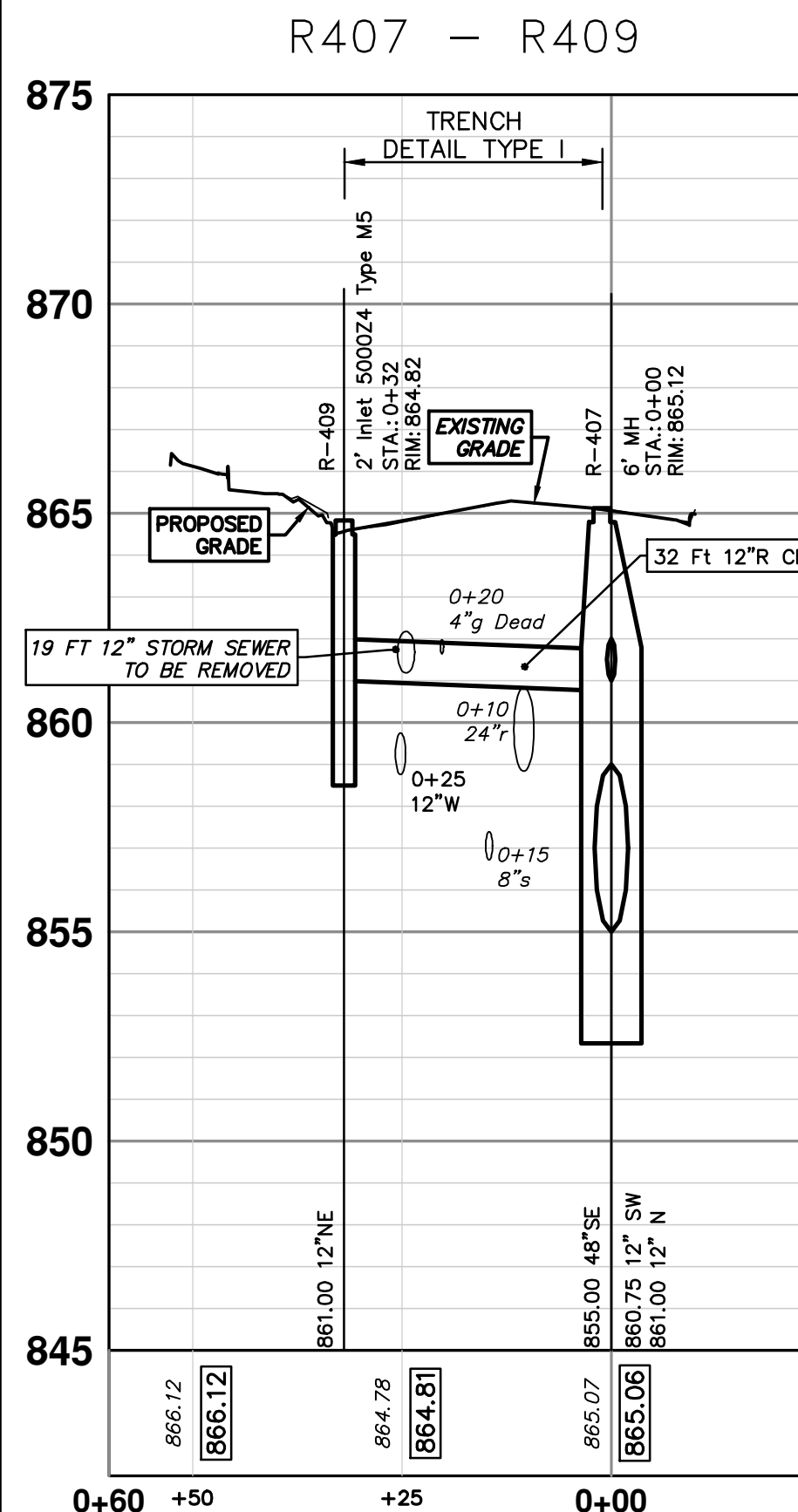
DATE: 2022034-59


R:\2022034 Miller Ave Rehab\Plan Production\2022034Strm.dwg Dwg Created: 29-Mar-24 - _g2 standard bw.stb - Plot Date: 5-Apr-24



| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|----------|--------|---------------|--------------|------|
| R-402 | 0+28 | 2' Inlet | 860.77 | 12" NE 856.00 | 6.77 | 2' |
| R-403 | 0+09 | 2' Inlet | 860.67 | 12" S 856.00 | 6.67 | 2' |
| R-405 | 0+10 | 2' Inlet | 863.41 | 12" S 858.50 | 6.91 | 2' |
| R-406 | 0+26 | 2' Inlet | 862.99 | 12" NE 858.75 | 6.24 | 2' |
| R-408 | 0+09 | 2' Inlet | 865.19 | 12" S 861.55 | 5.64 | 2' |
| R-409 | 0+32 | 2' Inlet | 864.82 | 12" NE 861.00 | 5.82 | 2' |

| STRUCTURE | DEPTH (Feet) | REMOVE |
|-----------|--------------|----------------------------------|
| 88-61837 | 3.31 | 12" Drop Structure TO BE REMOVED |
| 88-61836 | 3.71 | 12" Drop Structure TO BE REMOVED |
| 88-61838 | 2.91 | 12" Drop Structure TO BE REMOVED |
| 88-61835 | 4.12 | 12" Drop Structure TO BE REMOVED |
| 92-56846 | 6.21 | EX MH TO BE ABANDONED |





Know what's below.
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| | | | | |
|------|-------------|--------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 00 | BID SET | 4-9-24 | AZD | JKA |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

PROPOSED STORM SEWER


R402, R403, R405, R406, R408, R409

SCALE PLAN: 1" = 20'

PROFILE: 1" = 4'

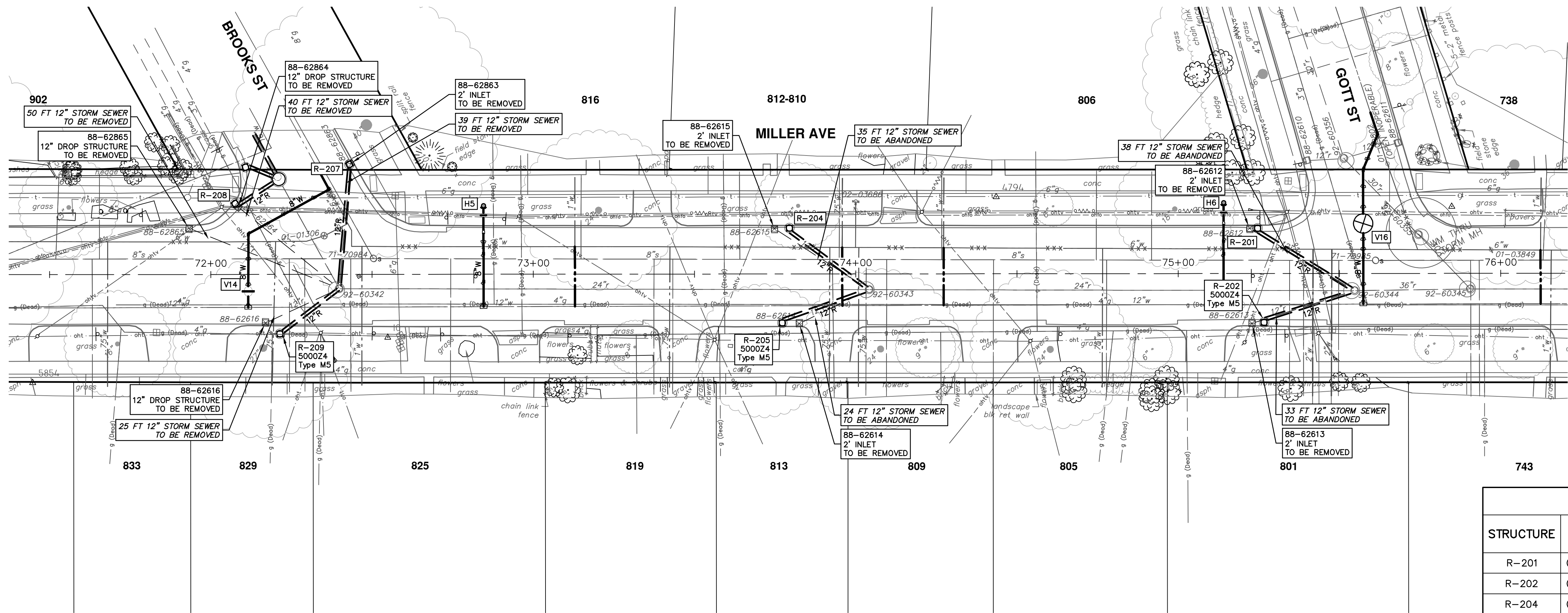
DRAWING NO. 2022034-60

SHEET NO. 60 OF 130



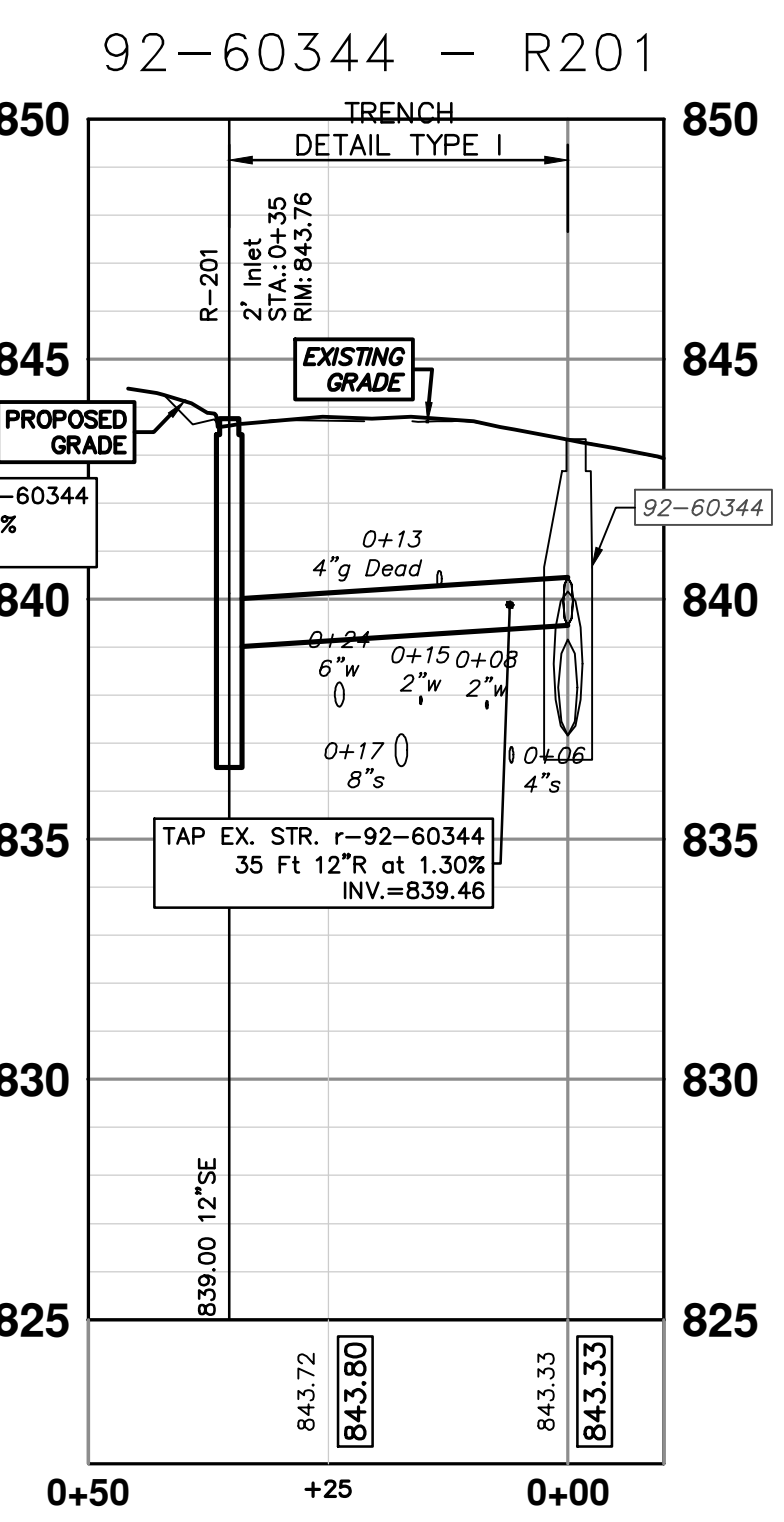
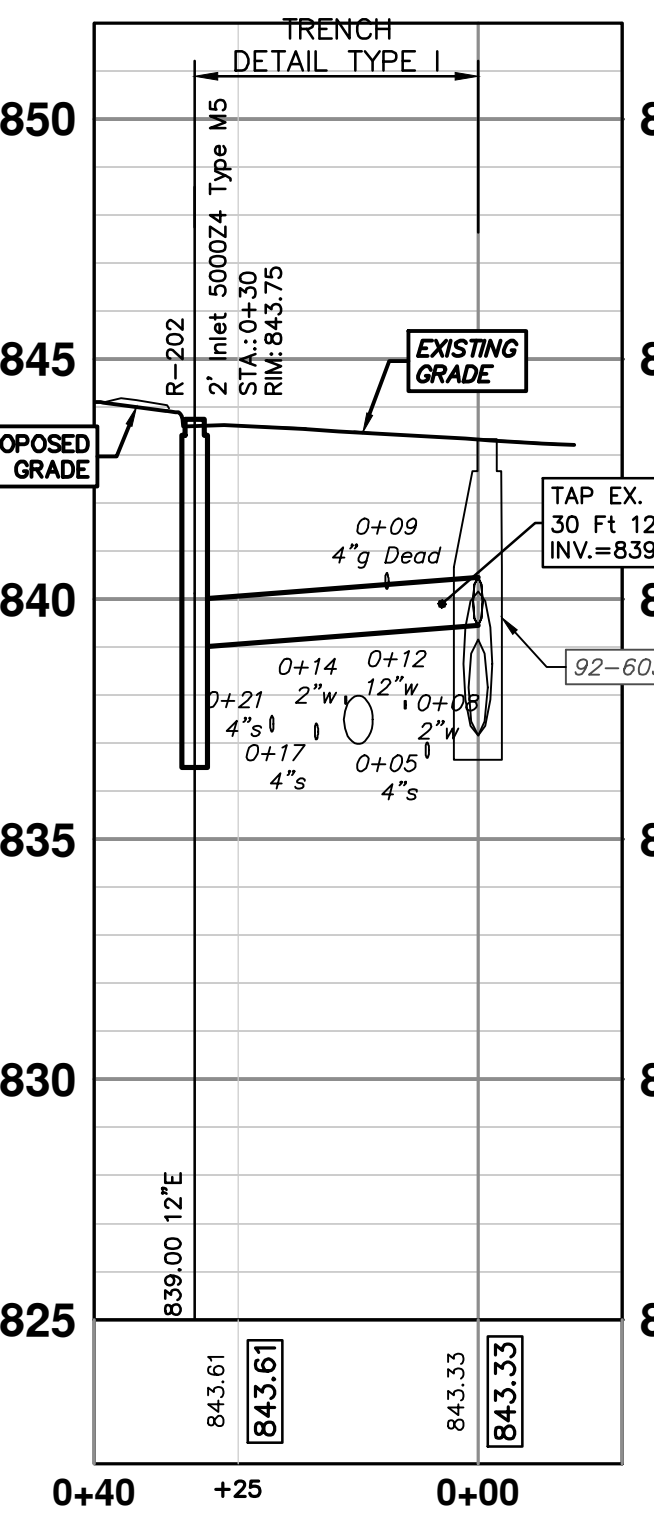
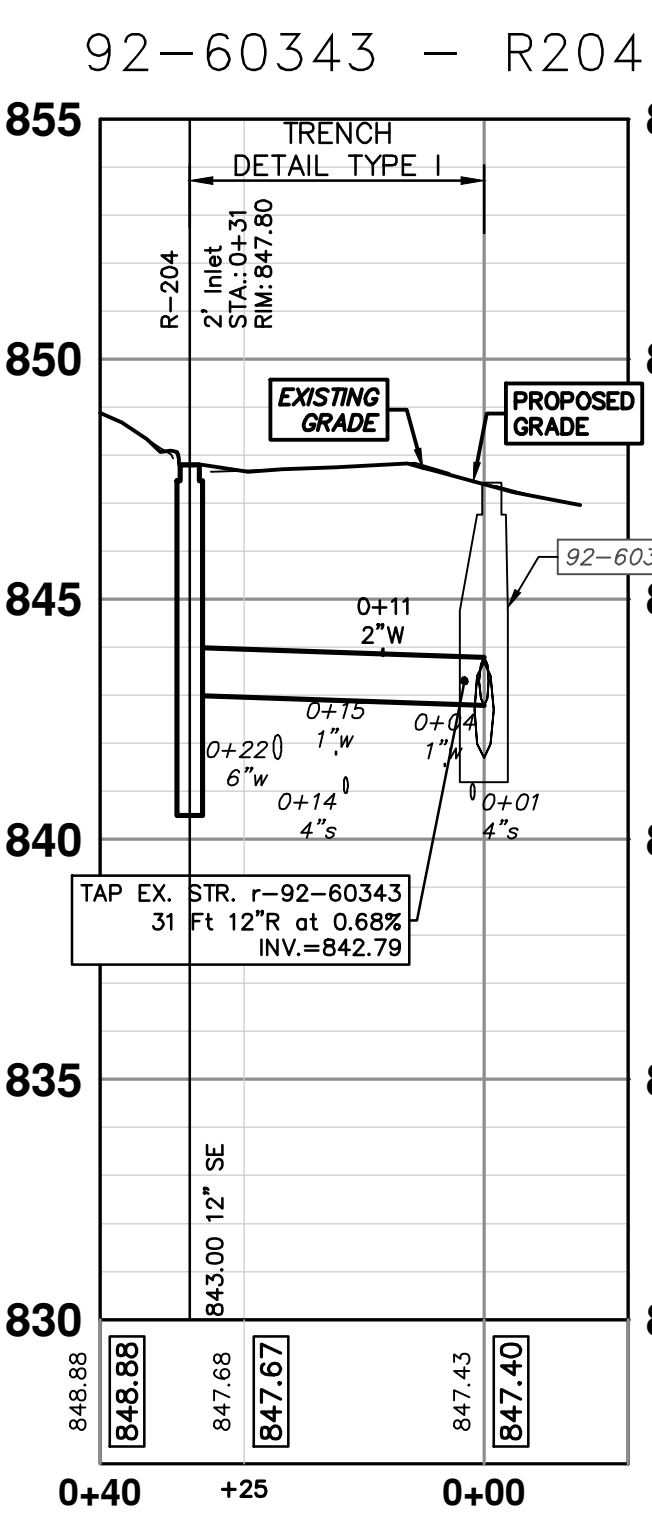
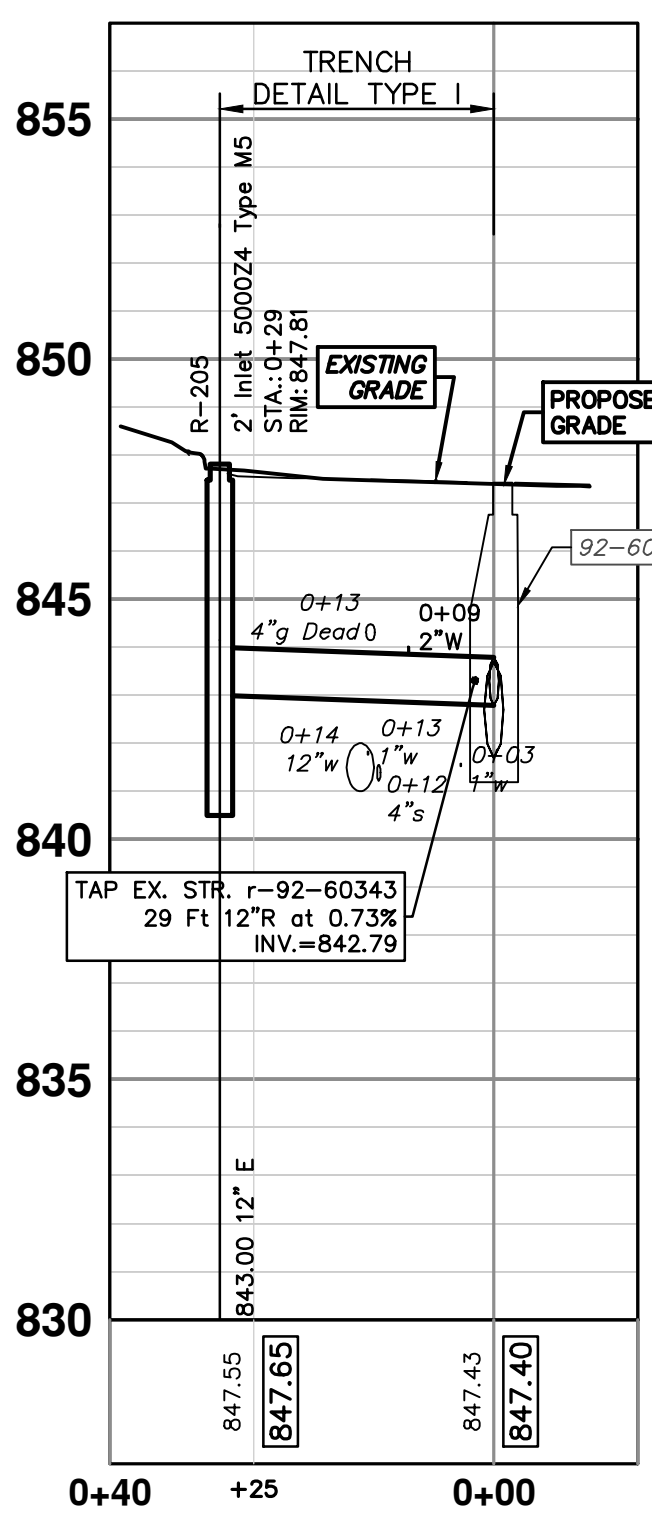
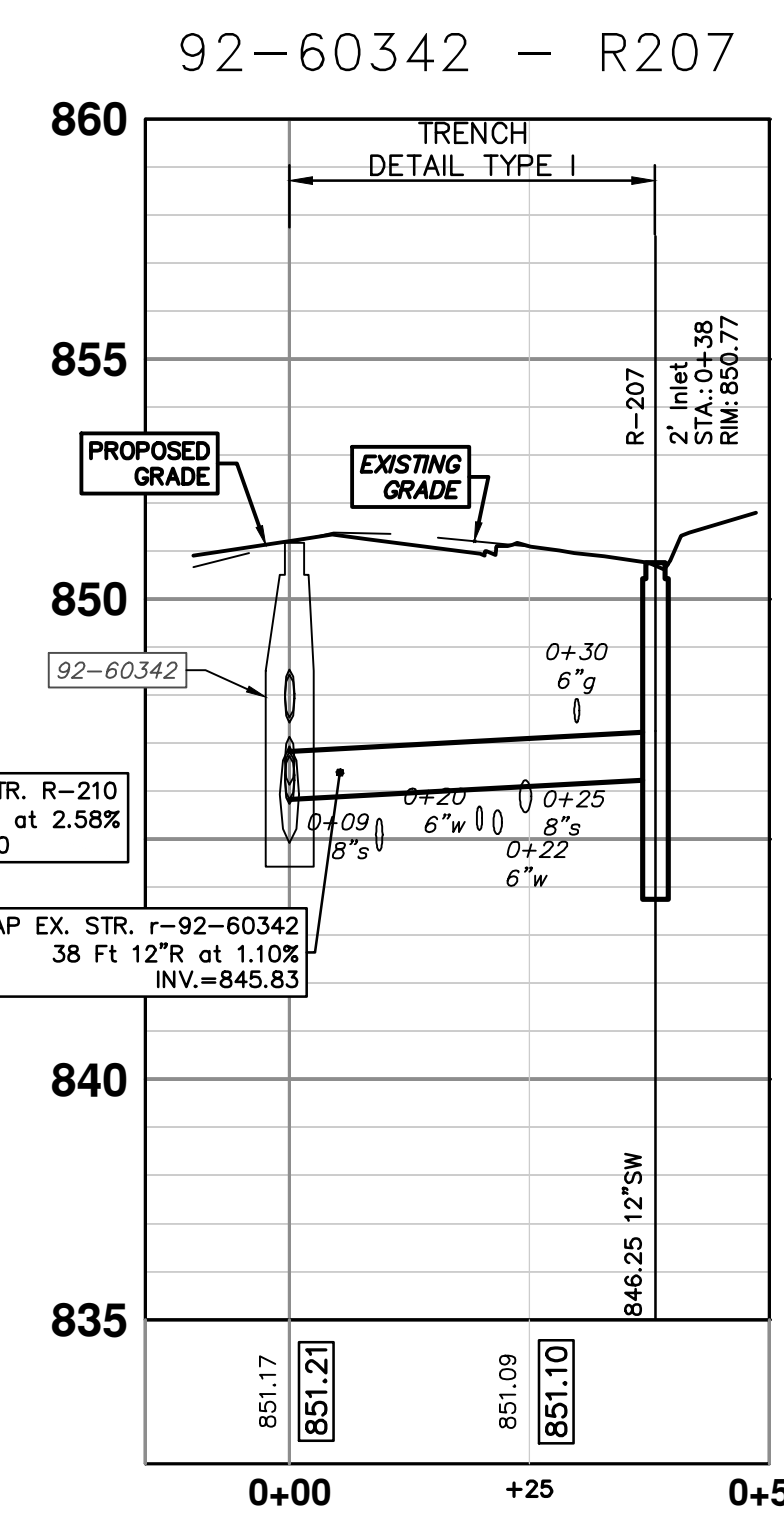
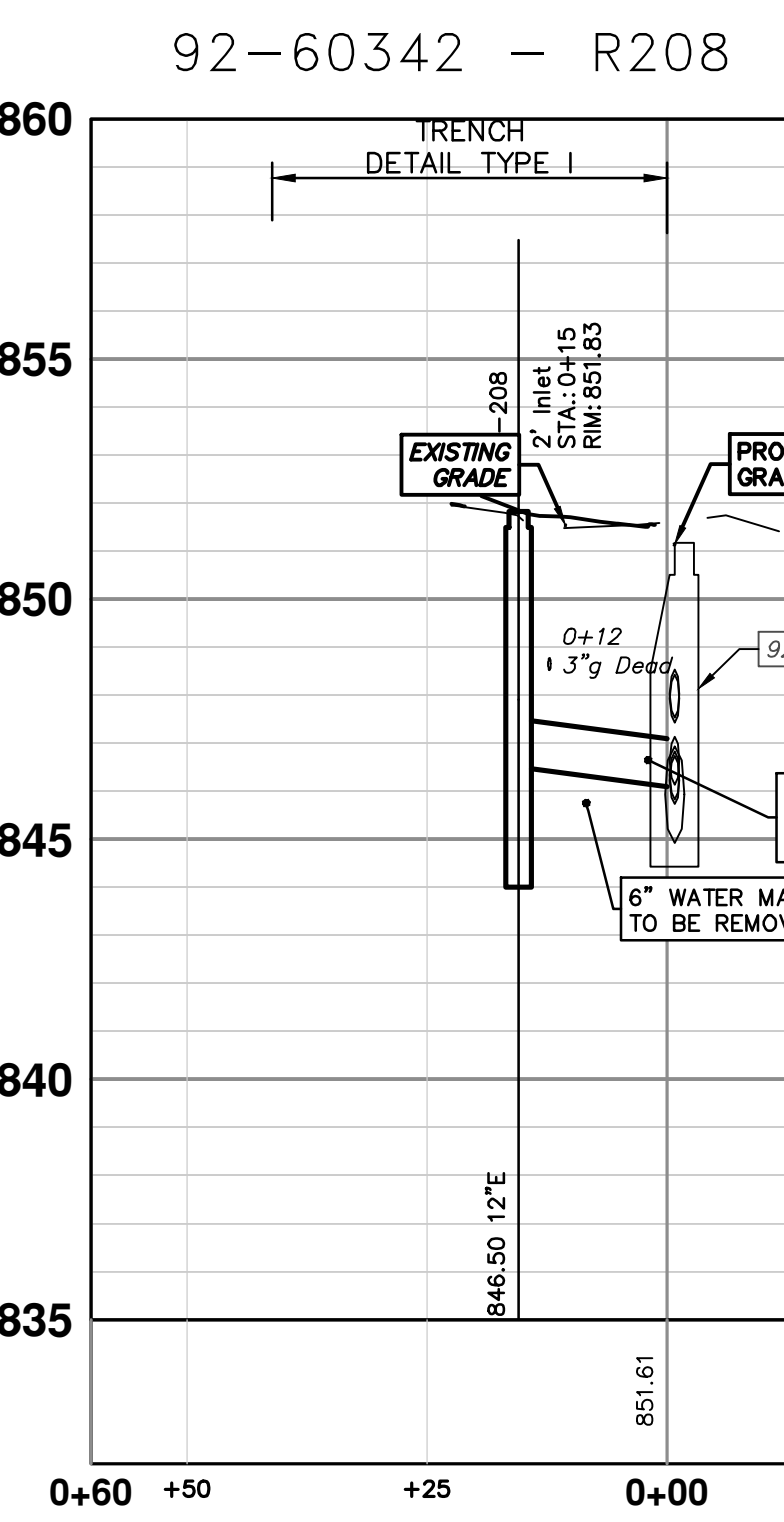
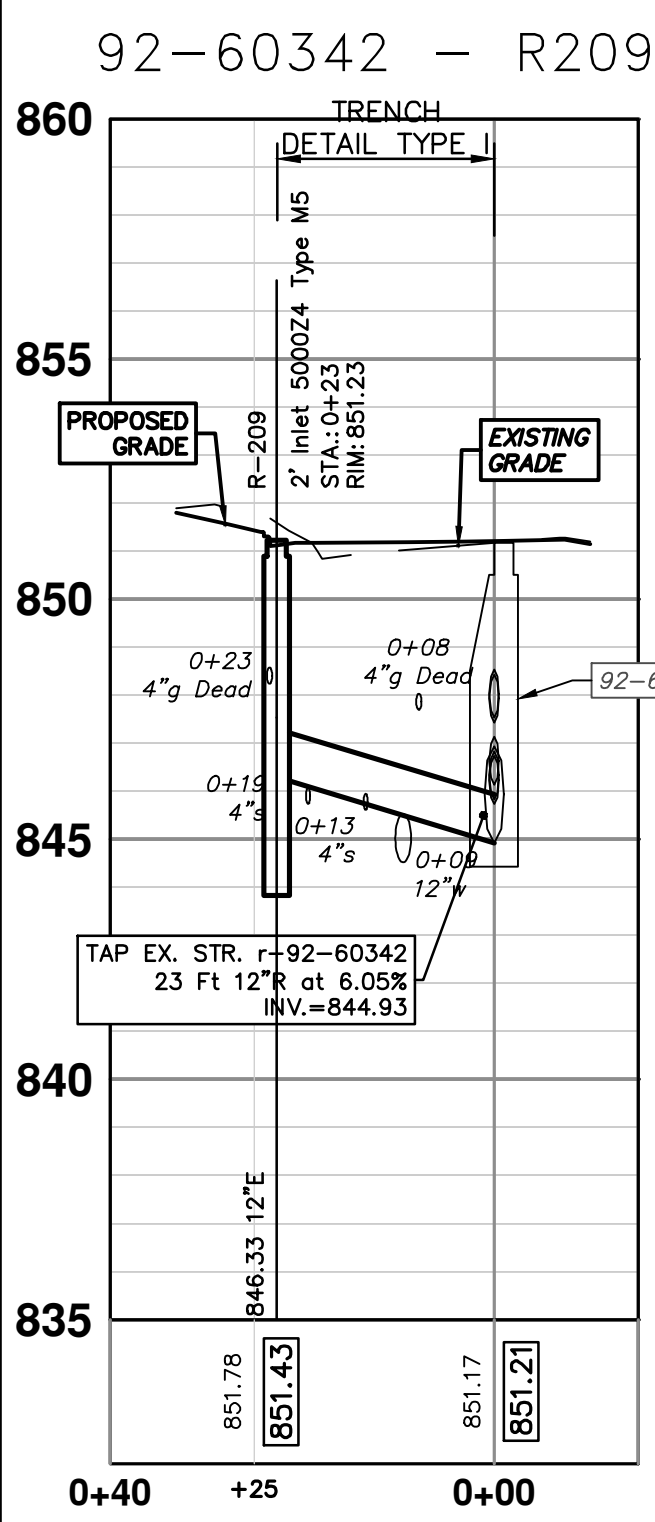
CITY OF ANN ARBOR
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R:\2022034_Miller_Ave_Rehab_Plan_Production\2022034Strm.dwg Dwg Created: 29-Mar-24 - _g2 standard bw.stb - Plot Date: 5-Apr-24



| STRUCTURE | DEPTH (Feet) | REMOVE |
|-----------|--------------|----------------------------------|
| 88-62614 | 3.61 | 2' Inlet TO BE REMOVED |
| 88-62615 | 4.10 | 2' Inlet TO BE REMOVED |
| 88-62863 | 2.00 | 2' Inlet TO BE REMOVED |
| 88-62616 | 3.32 | 12" Drop Structure TO BE REMOVED |
| 88-62864 | 2.51 | 12" Drop Structure TO BE REMOVED |
| 88-62612 | 3.60 | 2' Inlet TO BE REMOVED |
| 88-62613 | 2.90 | 2' Inlet TO BE REMOVED |

| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|----------|--------|---------------|--------------|------|
| R-201 | 0+35 | 2' Inlet | 843.76 | 12" SE 839.00 | 6.76 | 2' |
| R-202 | 0+30 | 2' Inlet | 843.75 | 12" E 839.00 | 6.75 | 2' |
| R-204 | 0+31 | 2' Inlet | 847.80 | 12" SE 843.00 | 6.80 | 2' |
| R-205 | 0+29 | 2' Inlet | 847.81 | 12" E 843.00 | 6.81 | 2' |
| R-207 | 0+38 | 2' Inlet | 850.77 | 12" SW 846.25 | 6.52 | 2' |
| R-208 | 0+15 | 2' Inlet | 851.83 | 12" E 846.50 | 7.33 | 2' |
| R-209 | 0+23 | 2' Inlet | 851.23 | 12" E 846.33 | 6.90 | 2' |



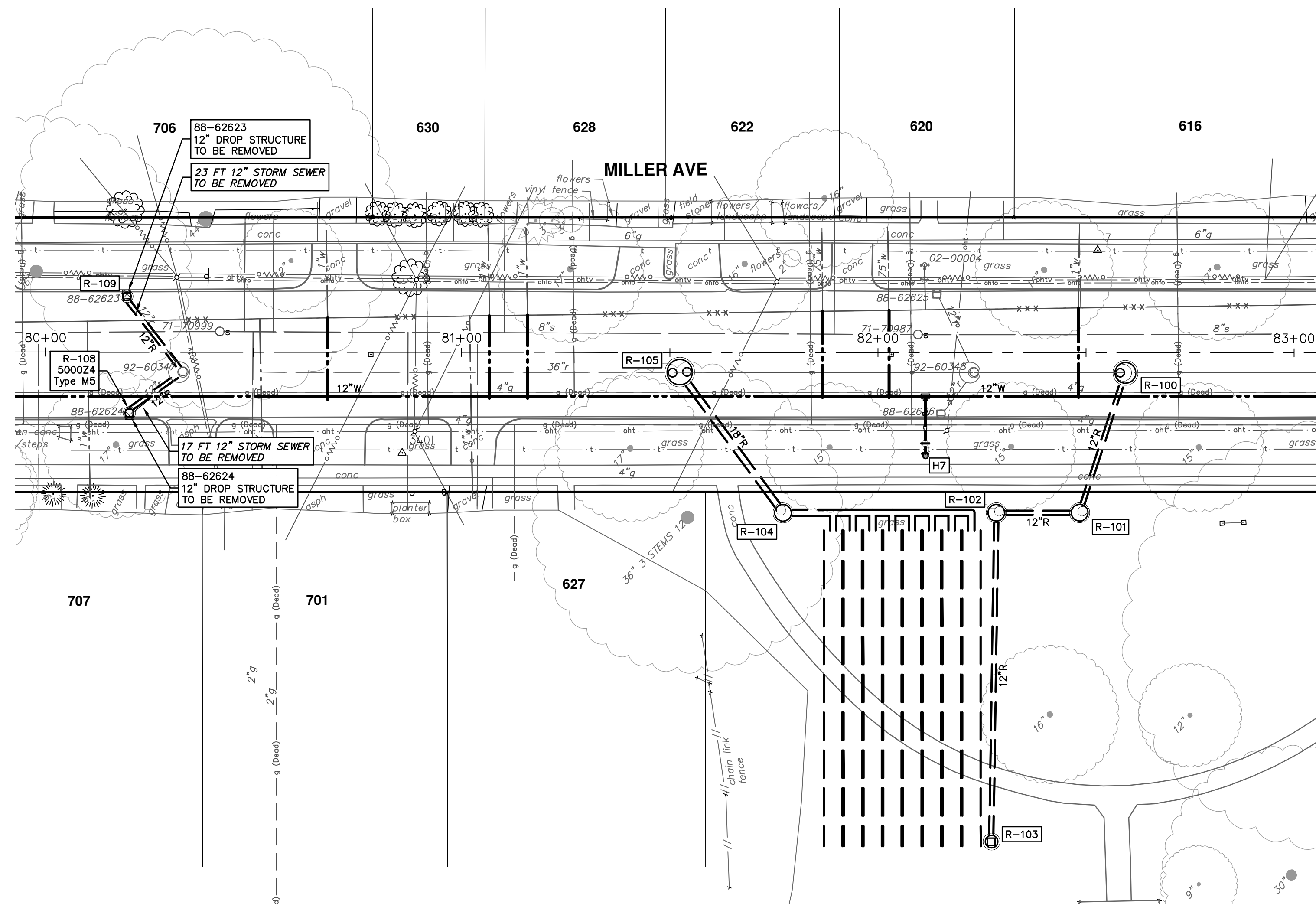
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MILLER AVENUE REHABILITATION
PROPOSED STORM SEWER
R201, R202, R204, R205, R207, R208, R209

SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING NO: 2022034-61
SHEET NO: 61 OF 130

R:\2022034_Miller Ave Rehab\Plan Production\2022034Strm.dwg Dwg Created: 29-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24

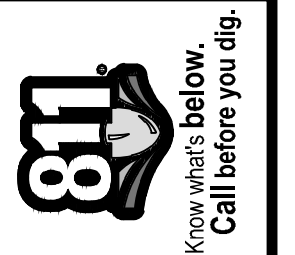
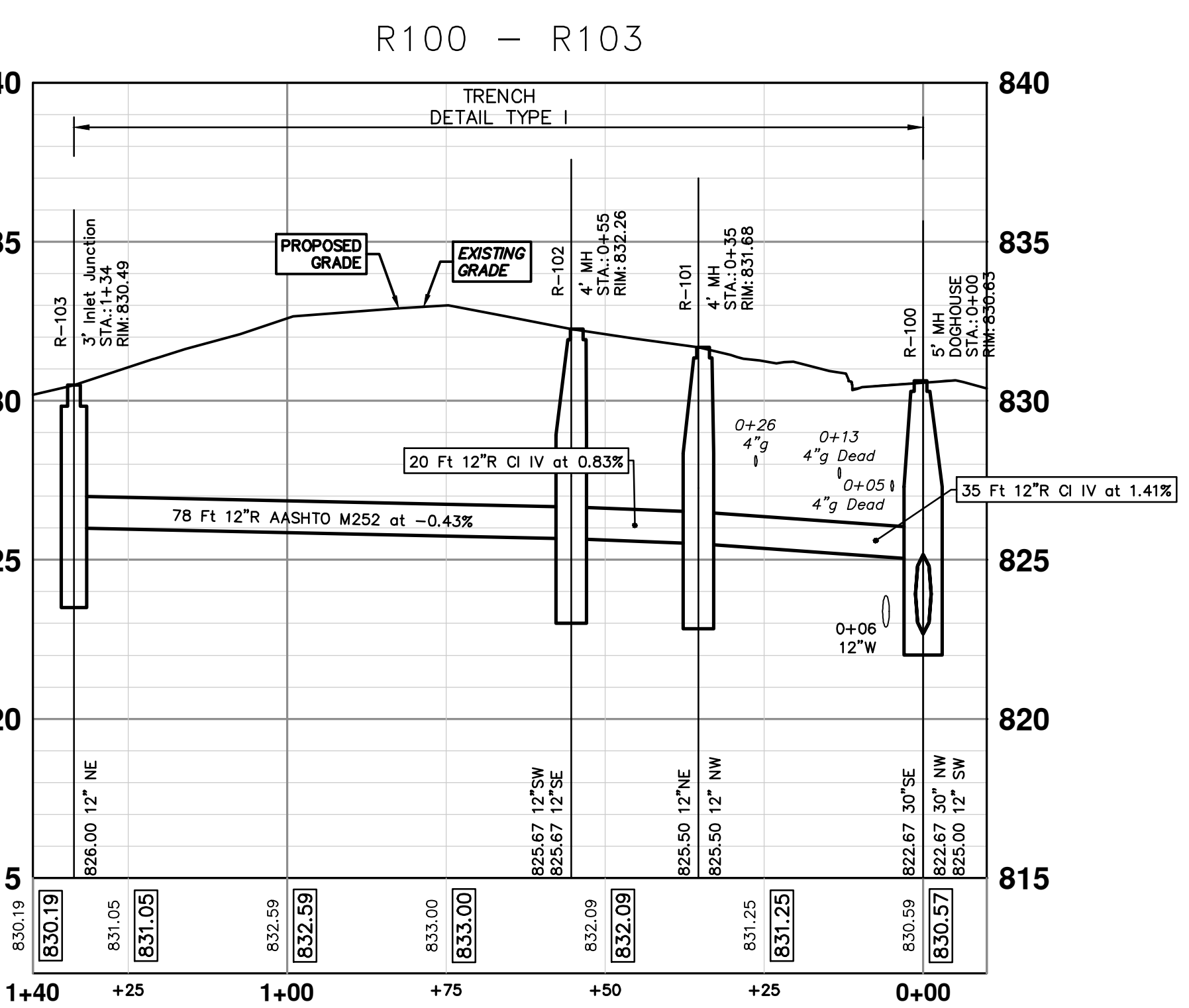
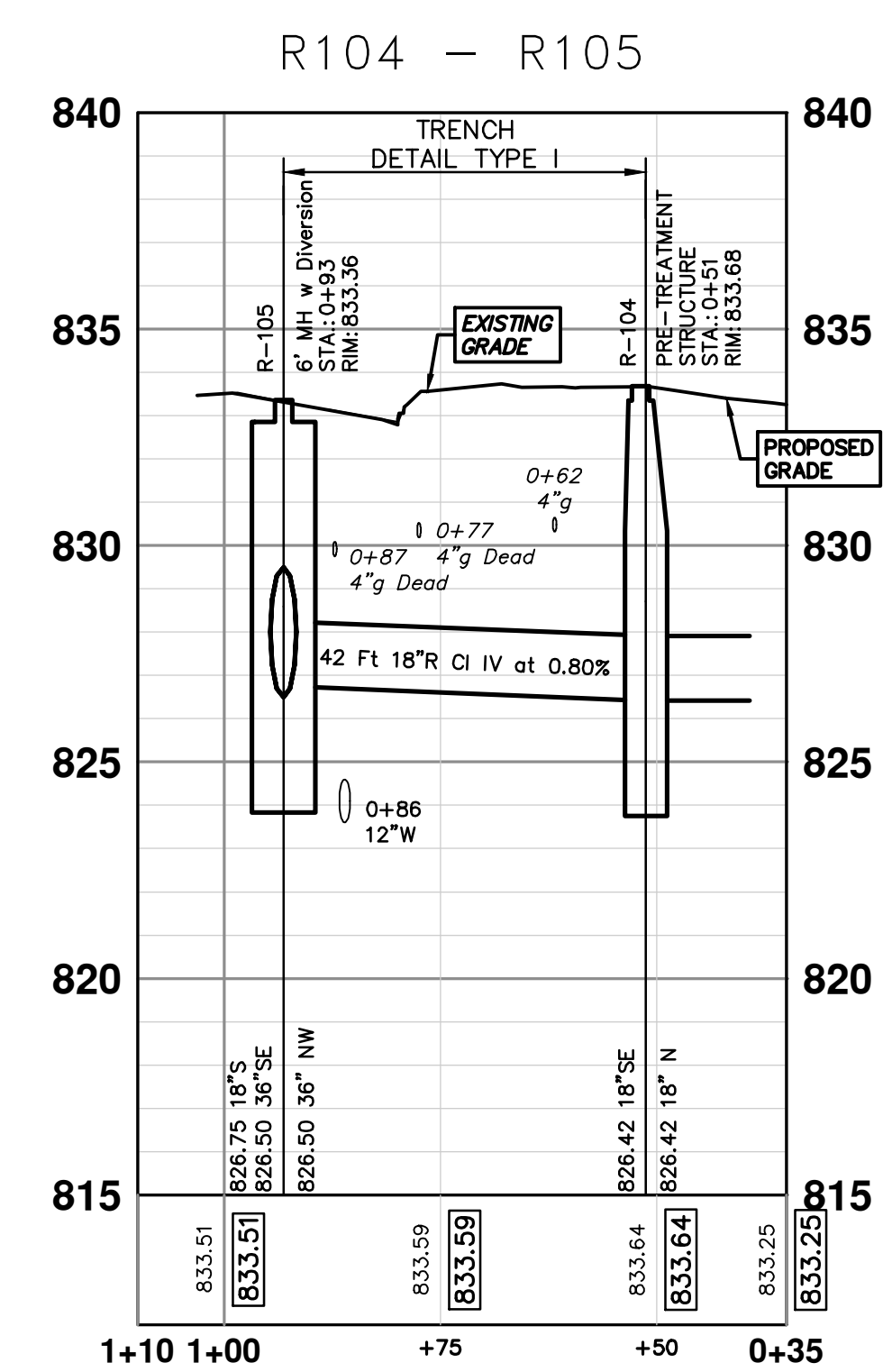
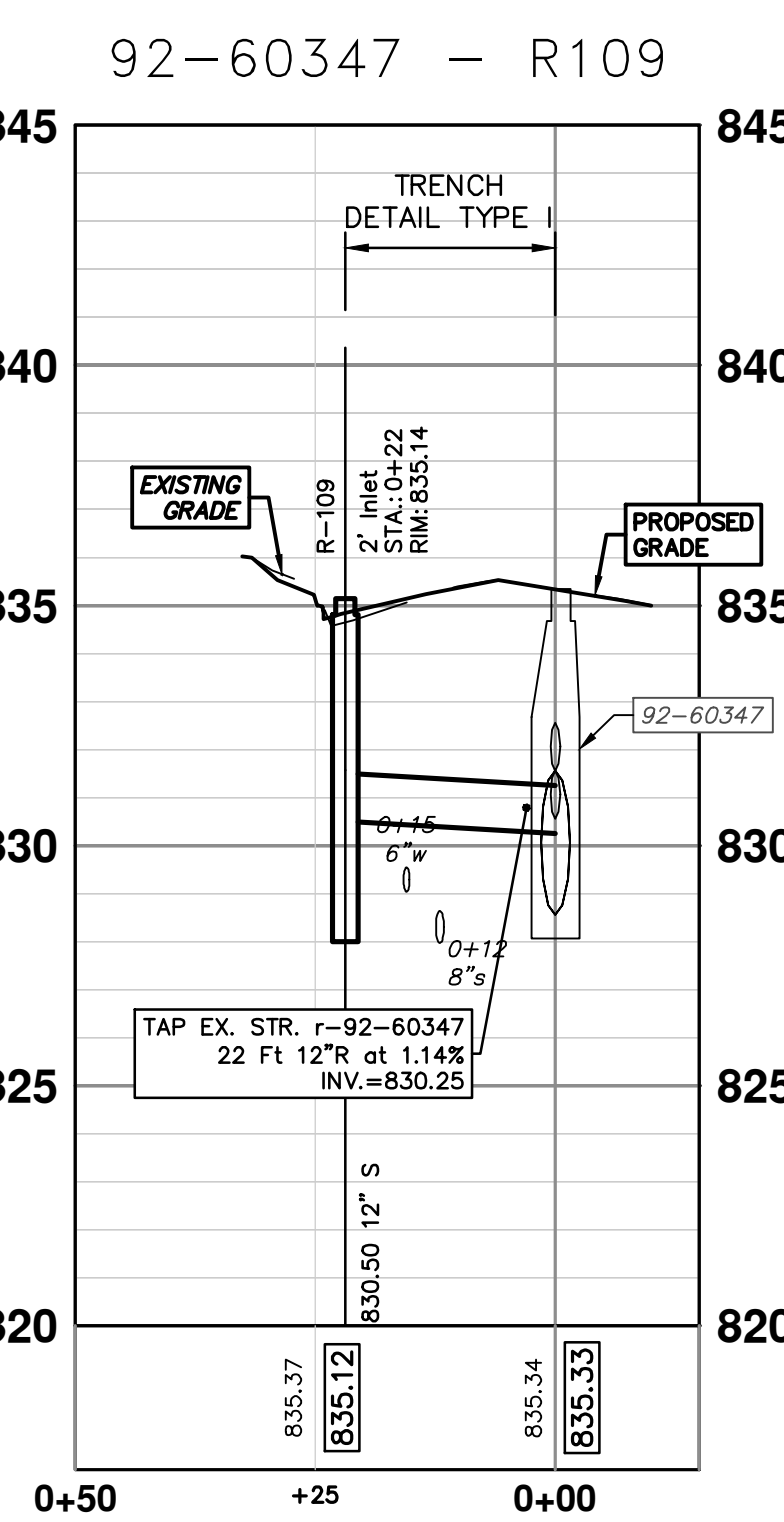
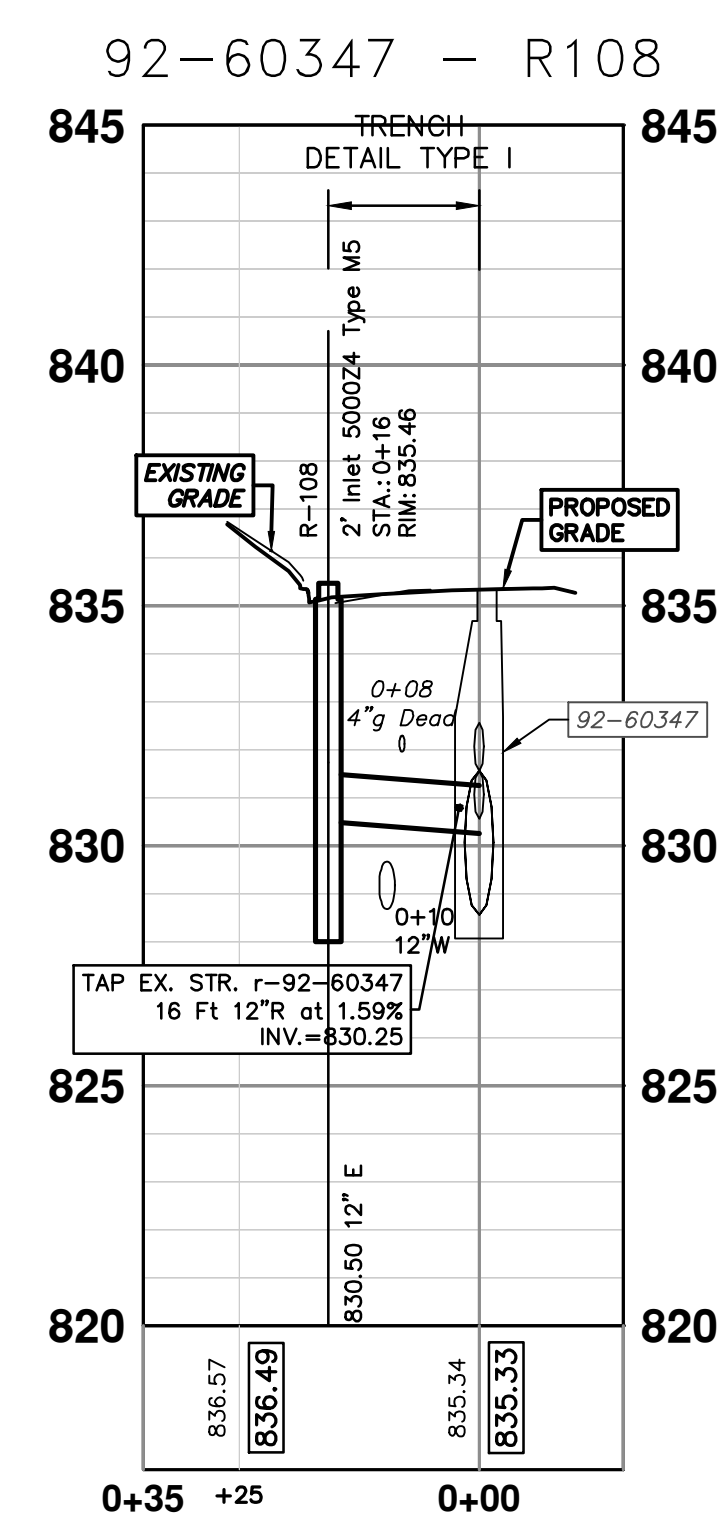


EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

| STRUCTURE | DEPTH (Feet) | REMOVE |
|-----------|--------------|----------------------------------|
| 88-62623 | 2.21 | 12" Drop Structure TO BE REMOVED |
| 88-62624 | 4.00 | 12" Drop Structure TO BE REMOVED |

STORM SEWER STRUCTURE TABLE

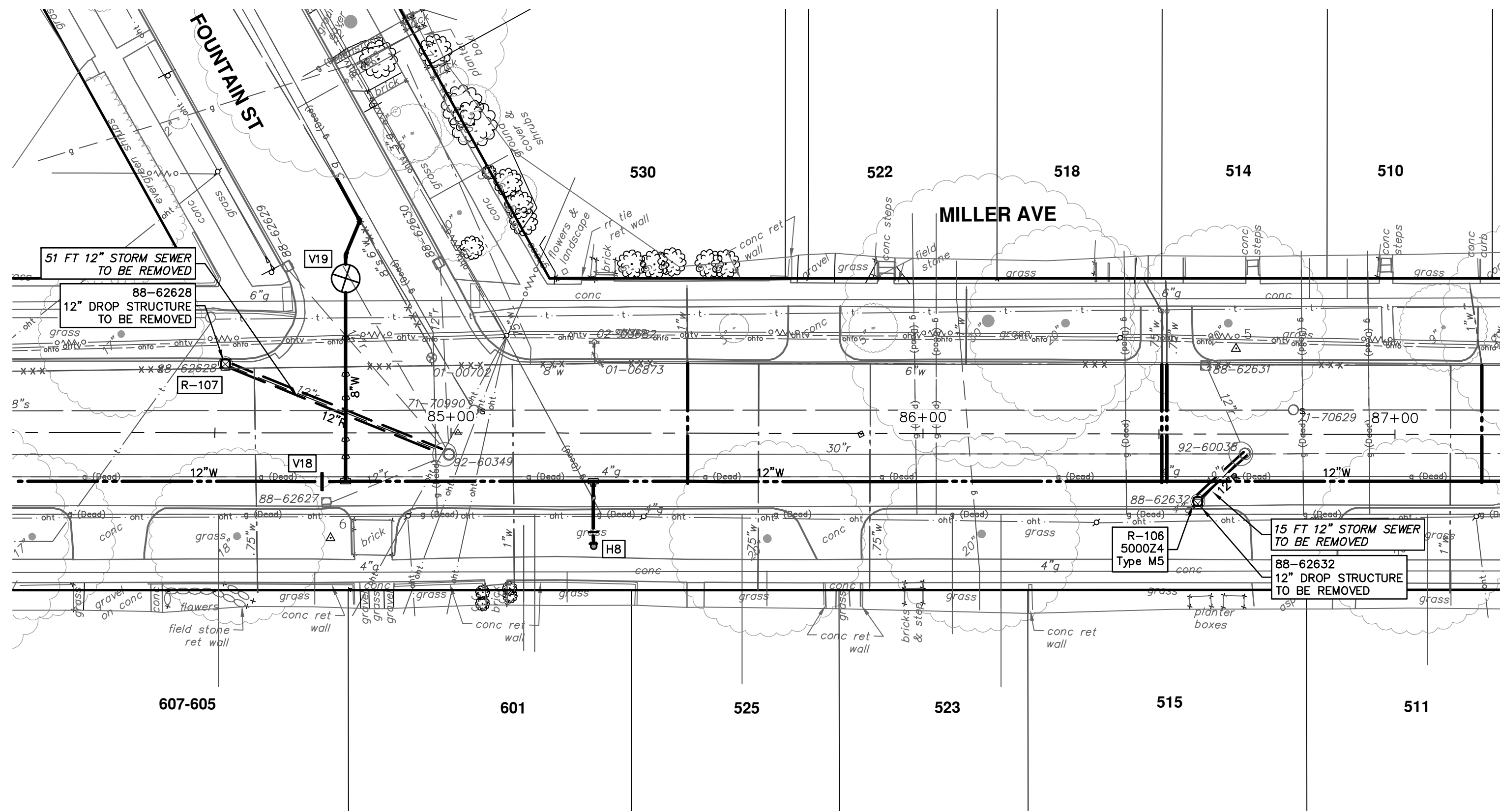
| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|-------------------------|--------|---|--------------|------|
| R-100 | 0+00 | 5' MH DOGHOUSE | 830.63 | 30" NW 822.67 12" SW 825.00 30" SE 822.67 | 7.96 | 0' |
| R-101 | 0+35 | 4' MH | 831.68 | 12" NW 825.50 12" NE 825.50 | 8.18 | 2' |
| R-102 | 0+55 | 4' MH | 832.26 | 12" SW 825.67 12" SE 825.67 | 8.59 | 2' |
| R-103 | 1+34 | 3' Inlet Junction | 830.49 | 12" NE 826.00 | 6.49 | 2' |
| R-104 | 0+51 | PRE-TREATMENT STRUCTURE | 833.68 | 18" N 826.42 18" SE 826.42 | 9.26 | 2' |
| R-105 | 0+93 | 6' MH w Diversion | 833.36 | 36" NW 826.50 18" S 826.75 36" SE 826.50 | 8.86 | 2' |
| R-108 | 0+16 | 2' Inlet | 835.46 | 12" E 830.50 | 6.96 | 2' |
| R-109 | 0+22 | 2' Inlet | 835.14 | 12" S 830.50 | 6.64 | 2' |



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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MILLER AVENUE REHABILITATION
PROPOSED STORM SEWER
R100, R101, R102, R103, R104, R105, R108, R109
SHEET No. 62 OF 130
SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING No. 2022034-62

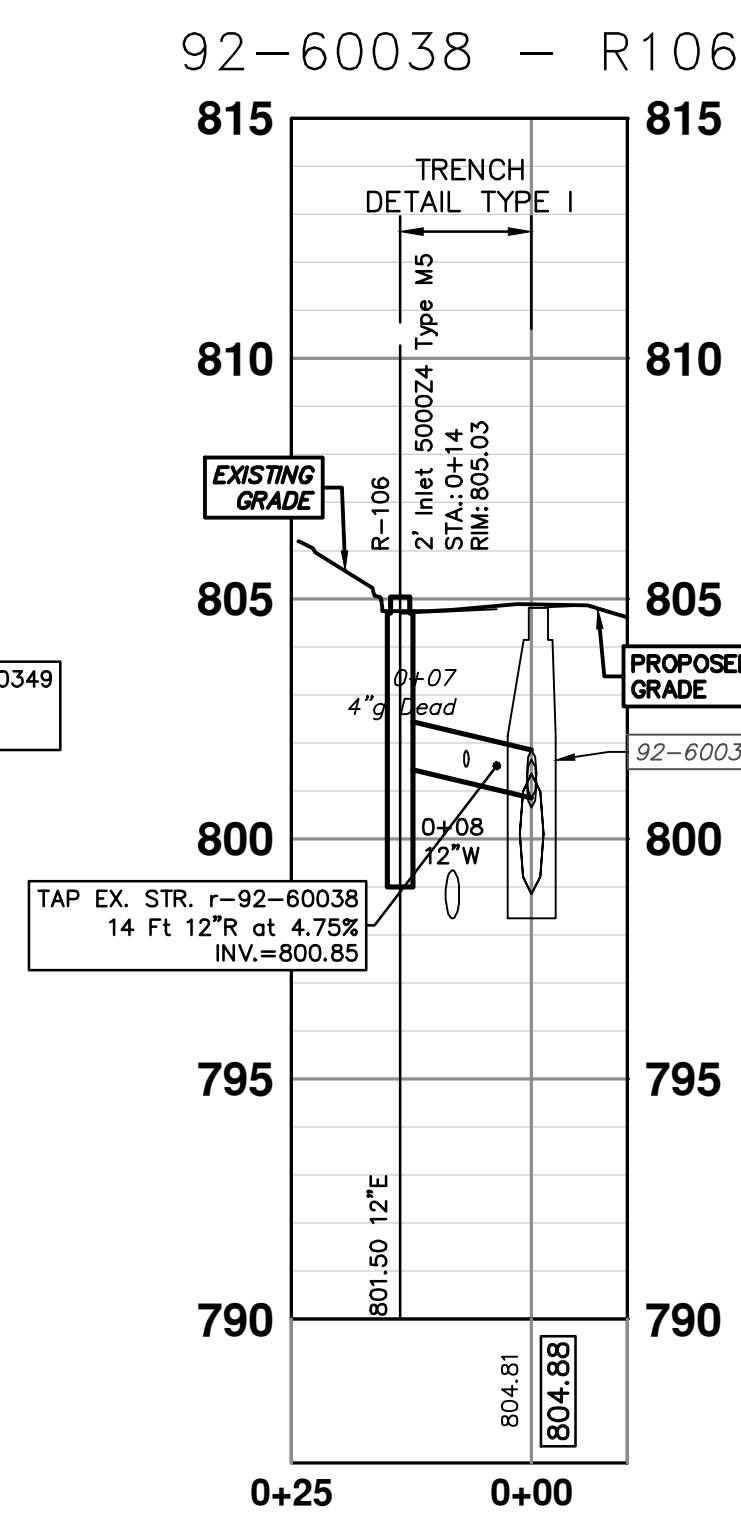
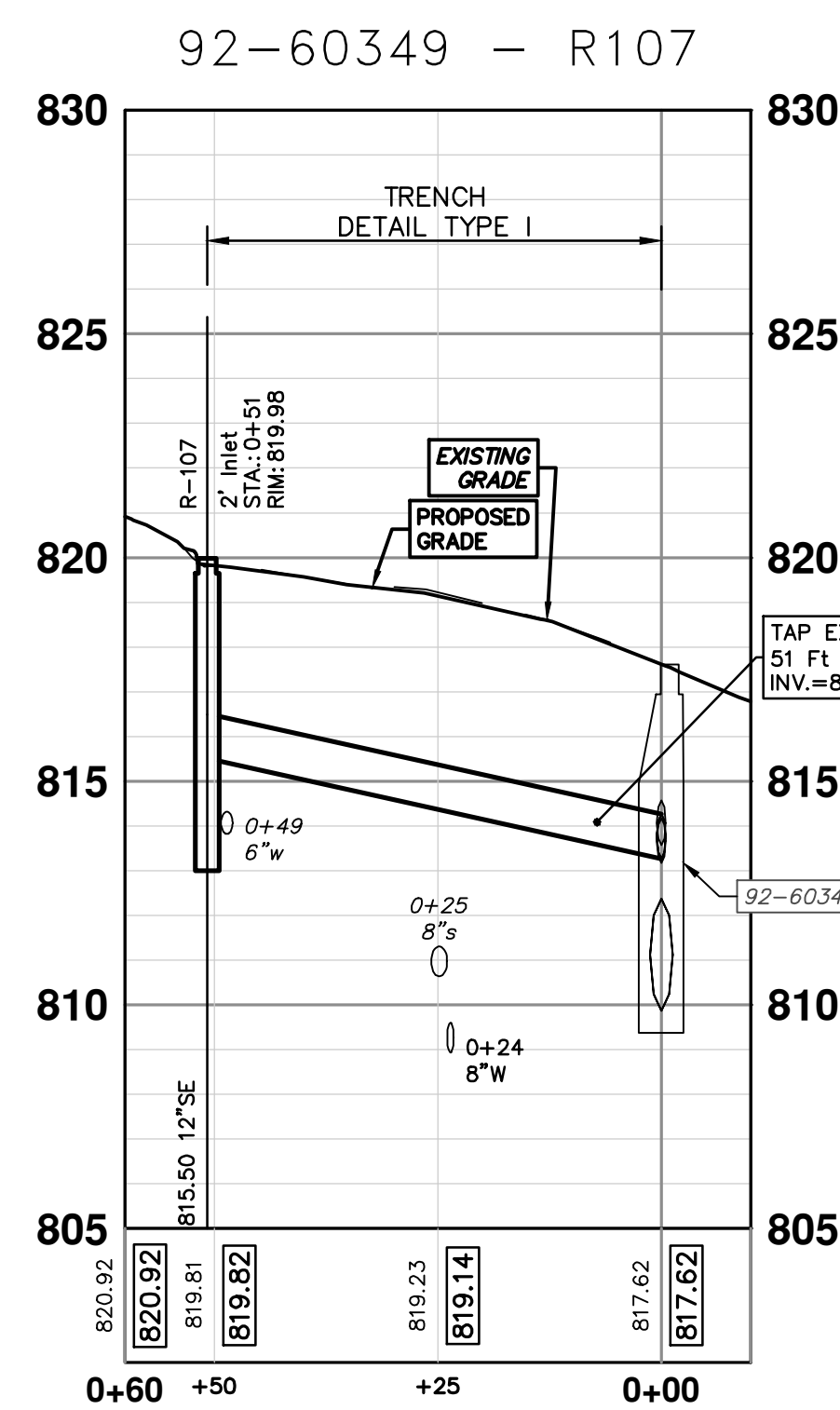


EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

| STRUCTURE | DEPTH (Feet) | REMOVE |
|-----------|--------------|----------------------------------|
| 88-62632 | 2.71 | 12" Drop Structure TO BE REMOVED |
| 88-62628 | 2.41 | 12" Drop Structure TO BE REMOVED |

STORM SEWER STRUCTURE TABLE

| STRUCTURE | UTILITY STATION | TYPE | RIM | INVERTS | DEPTH (Feet) | SUMP |
|-----------|-----------------|----------|--------|---------------|--------------|------|
| R-106 | 0+14 | 2' Inlet | 805.03 | 12" E 801.50 | 5.53 | 2' |
| R-107 | 0+51 | 2' Inlet | 819.98 | 12" SE 815.50 | 6.48 | 2' |



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

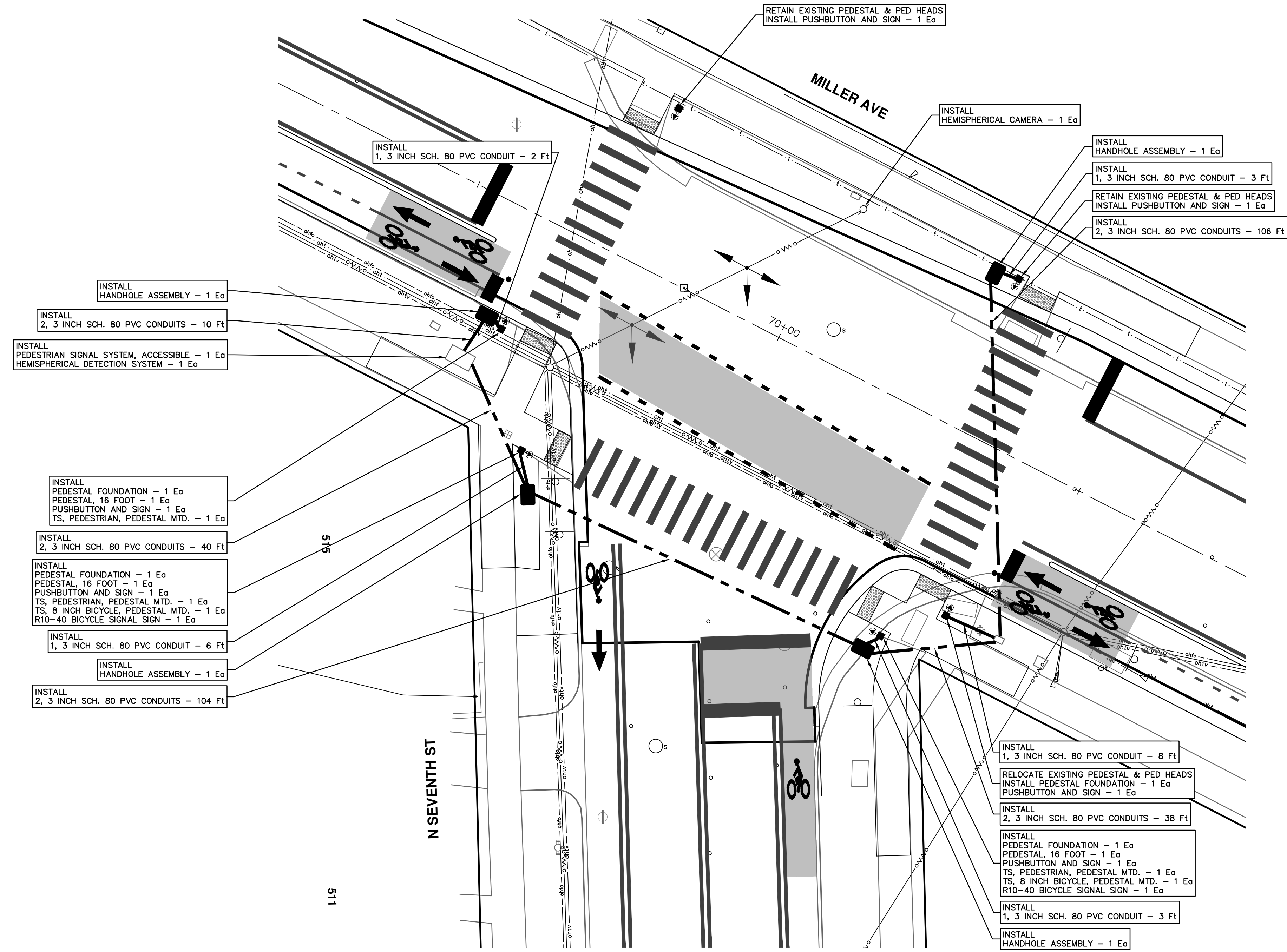
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CITY OF ANN ARBOR - ENGINEERING
MILLER AVENUE REHABILITATION
PROPOSED STORM SEWER
R106,R107

SHEET No. 63 OF 130
SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING No. 2022034-63

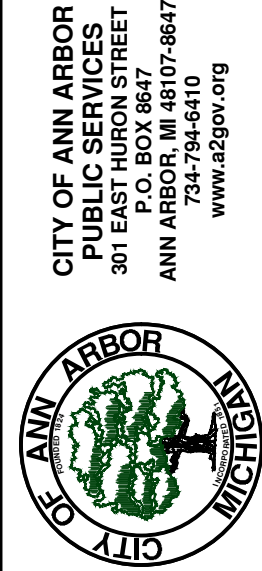
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 MILLER AVENUE REHABILITATION
 TRAFFIC SIGNAL PLAN
 N SEVENTH ST & MILLER AVE

SCALE PLAN: 1" = 10'
 DRAWING No.
 2022034-64

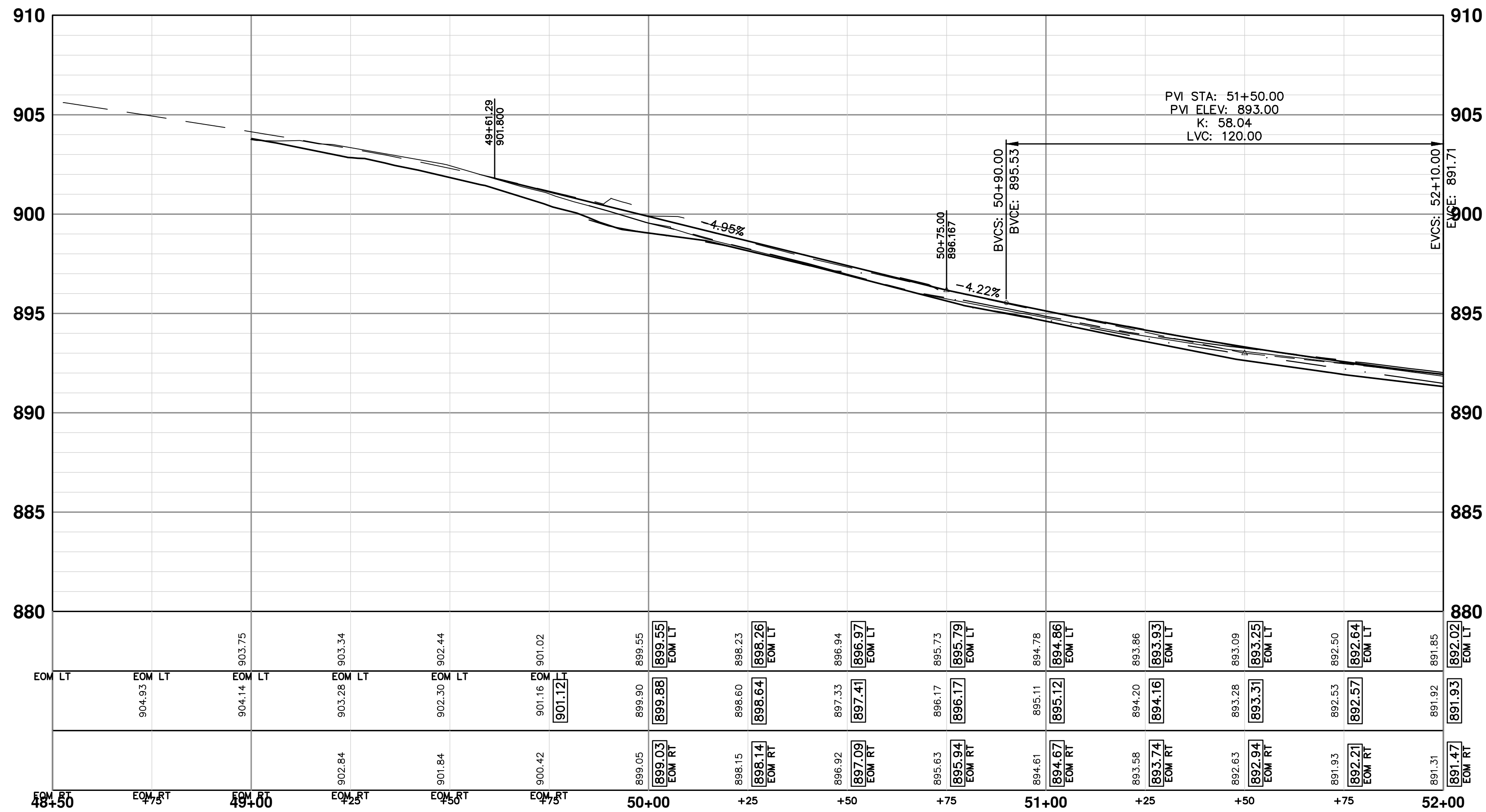
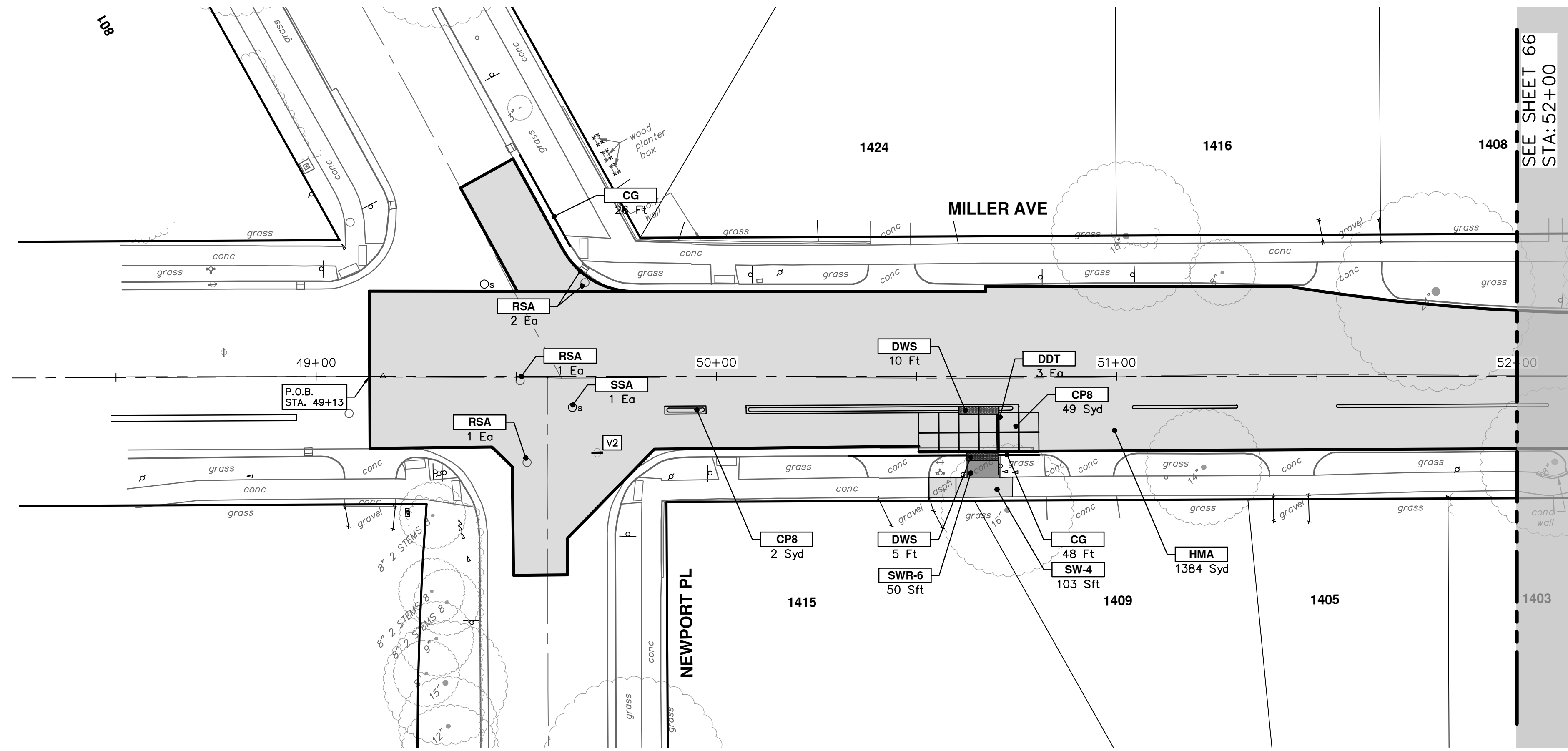
SHEET No.
 64 OF 130



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|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |





| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

ROAD PLAN & PROFILE

STA. 49+13 - STA. 52+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

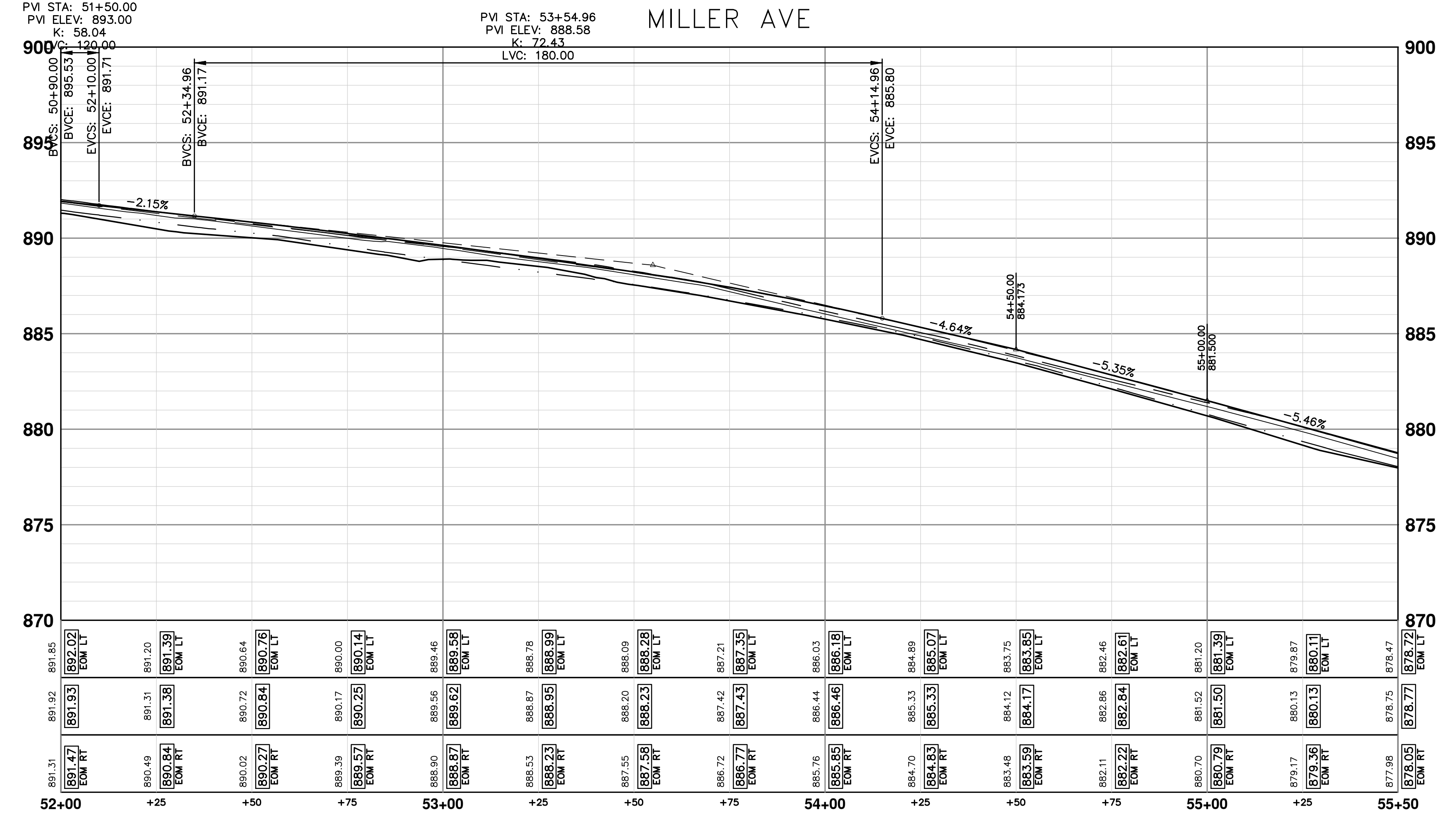
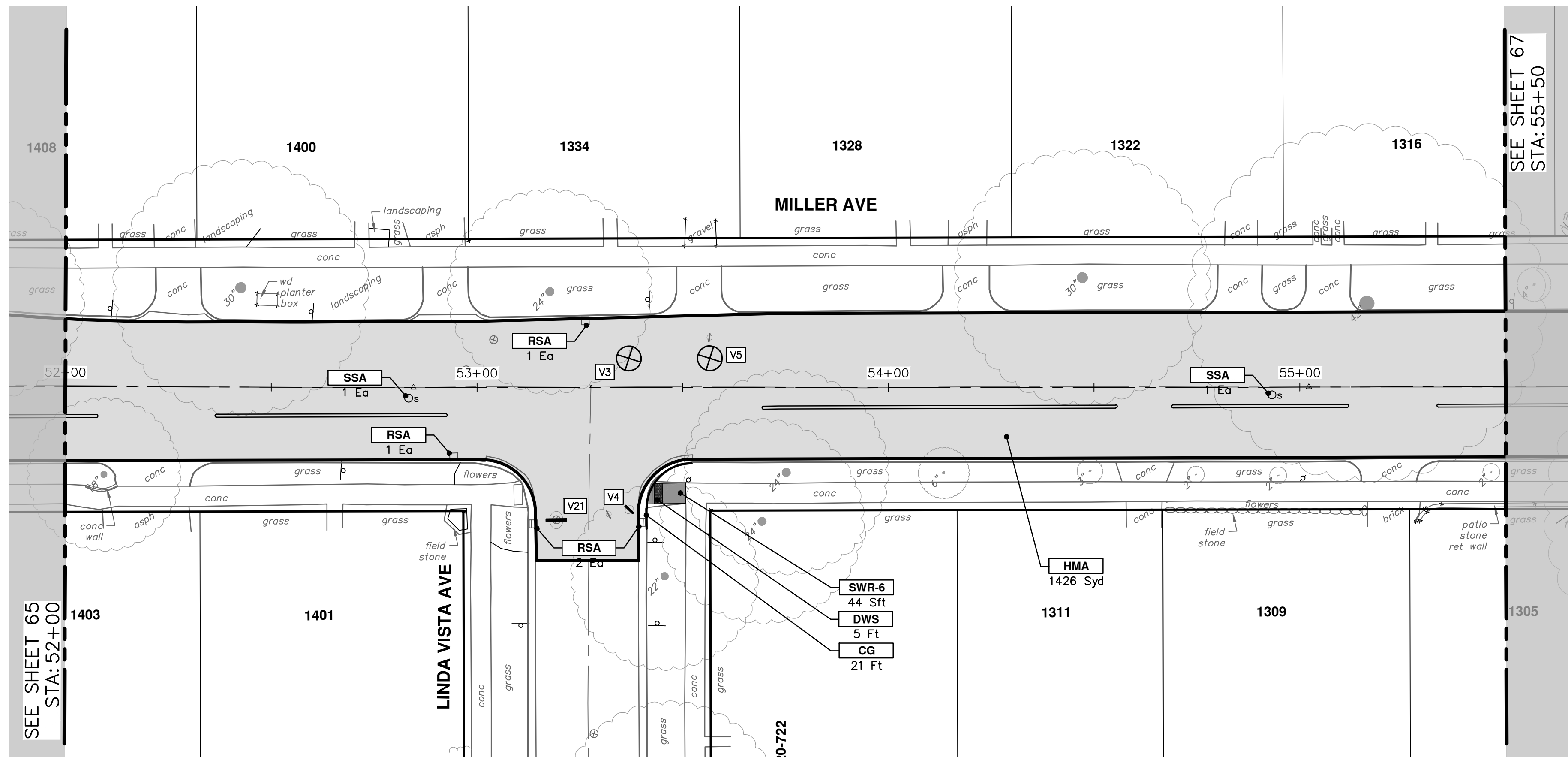
DRAWING NO. 2022034-65

SHEET No. 65 OF 130

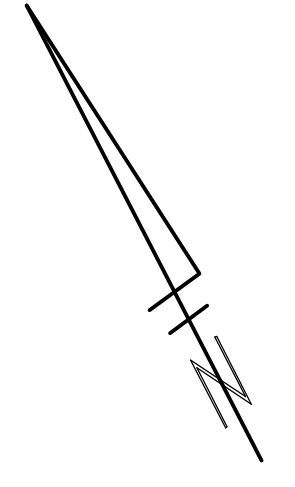
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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

ROAD PLAN & PROFILE

STA. 52+00 - STA. 55+50

SHEET No. 66 OF 130

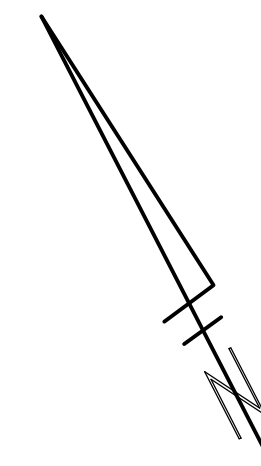
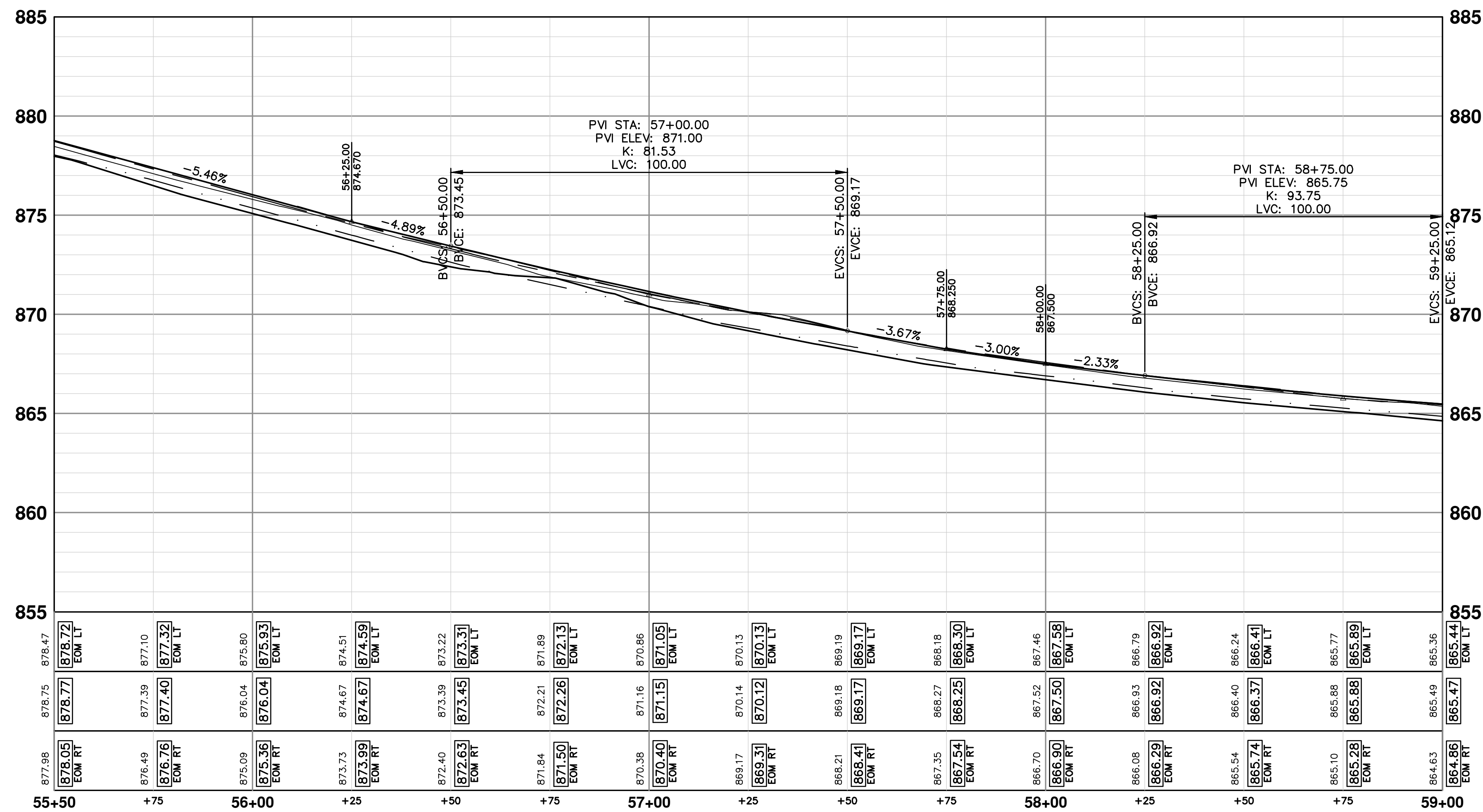
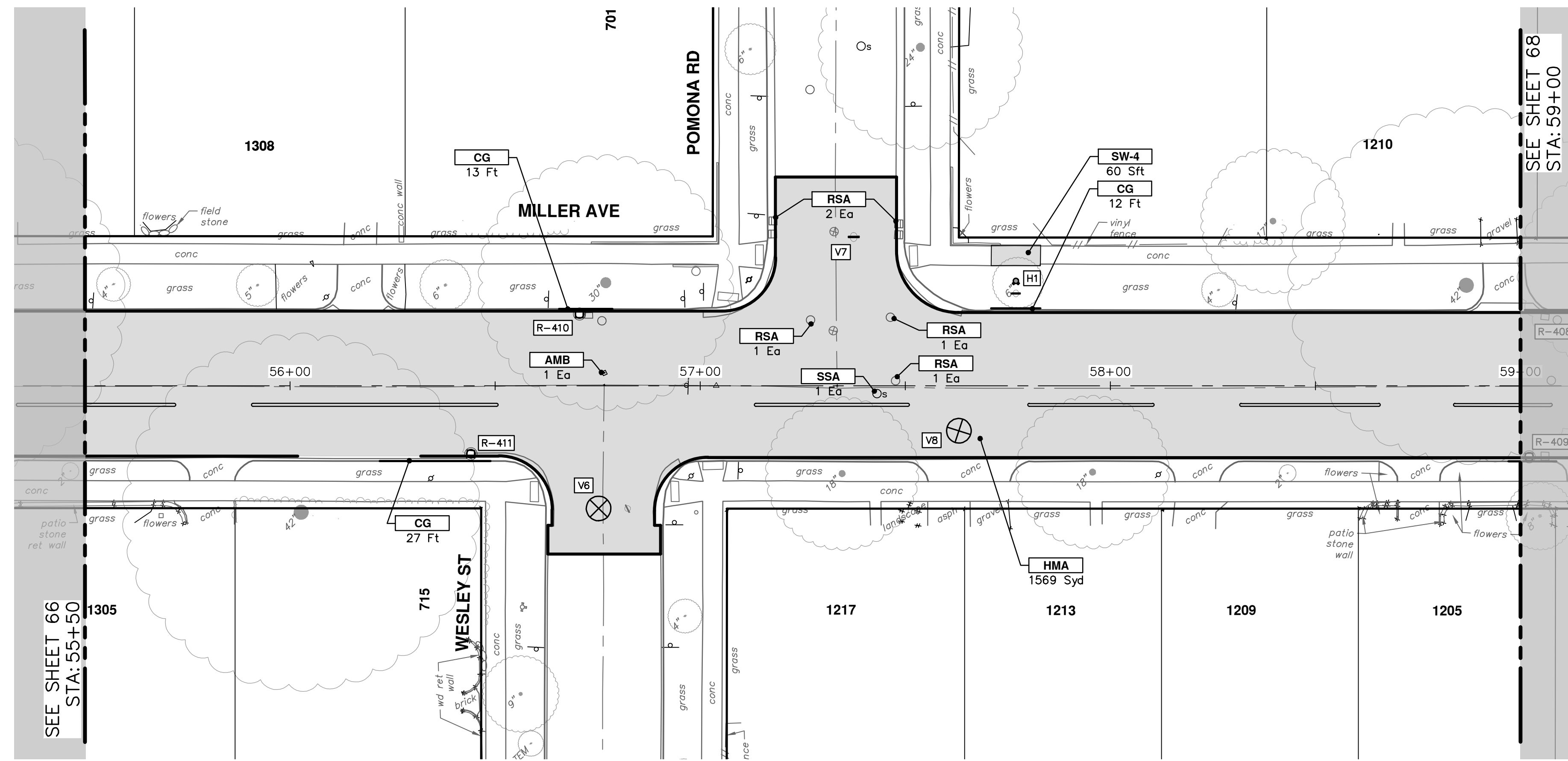
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2022034-66

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
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| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
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| AGB | Gate Box, Adjust |
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| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

ROAD PLAN & PROFILE

STA. 55+50 - STA. 59+00

SHEET No. 67 OF 130

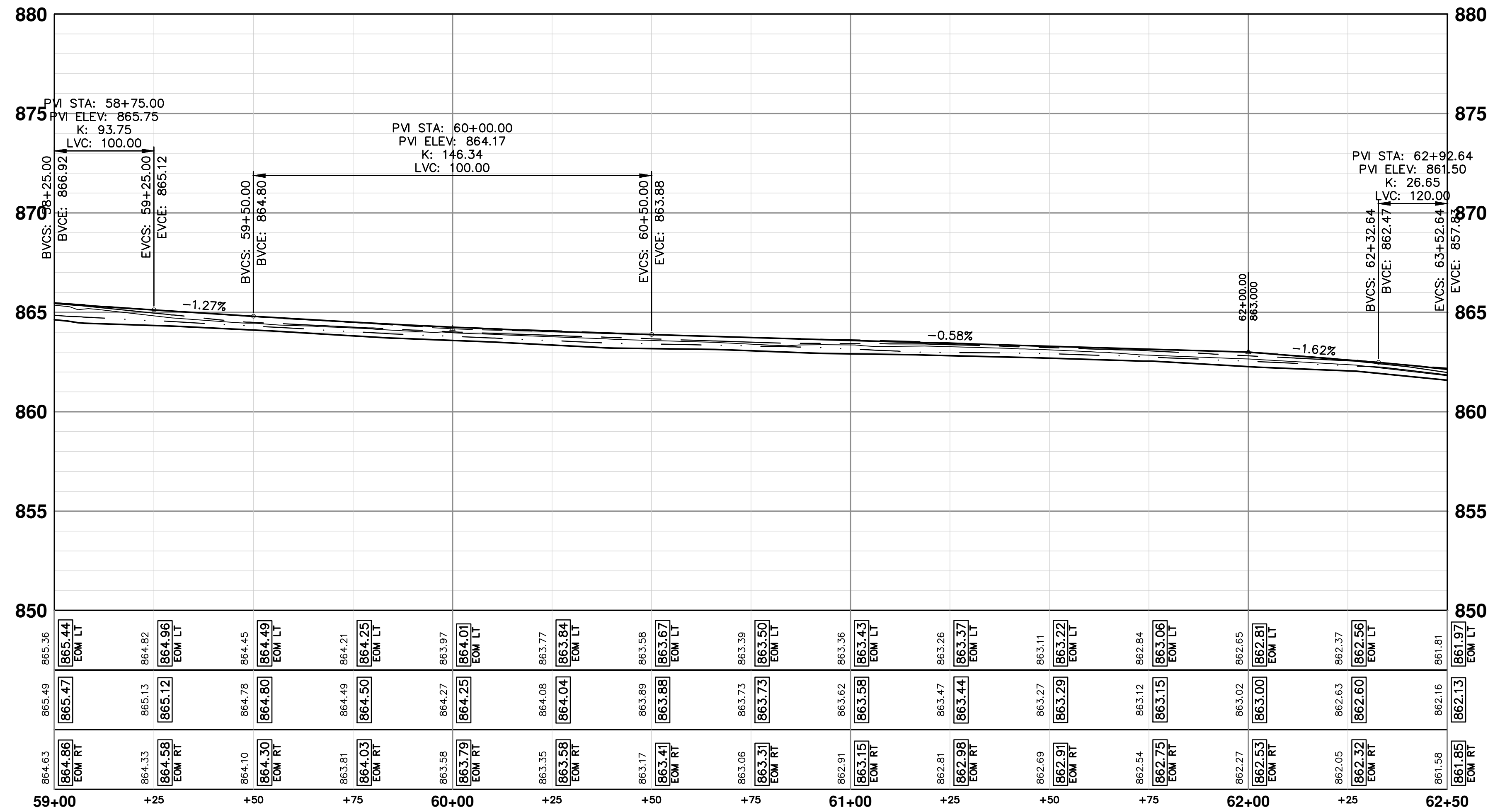
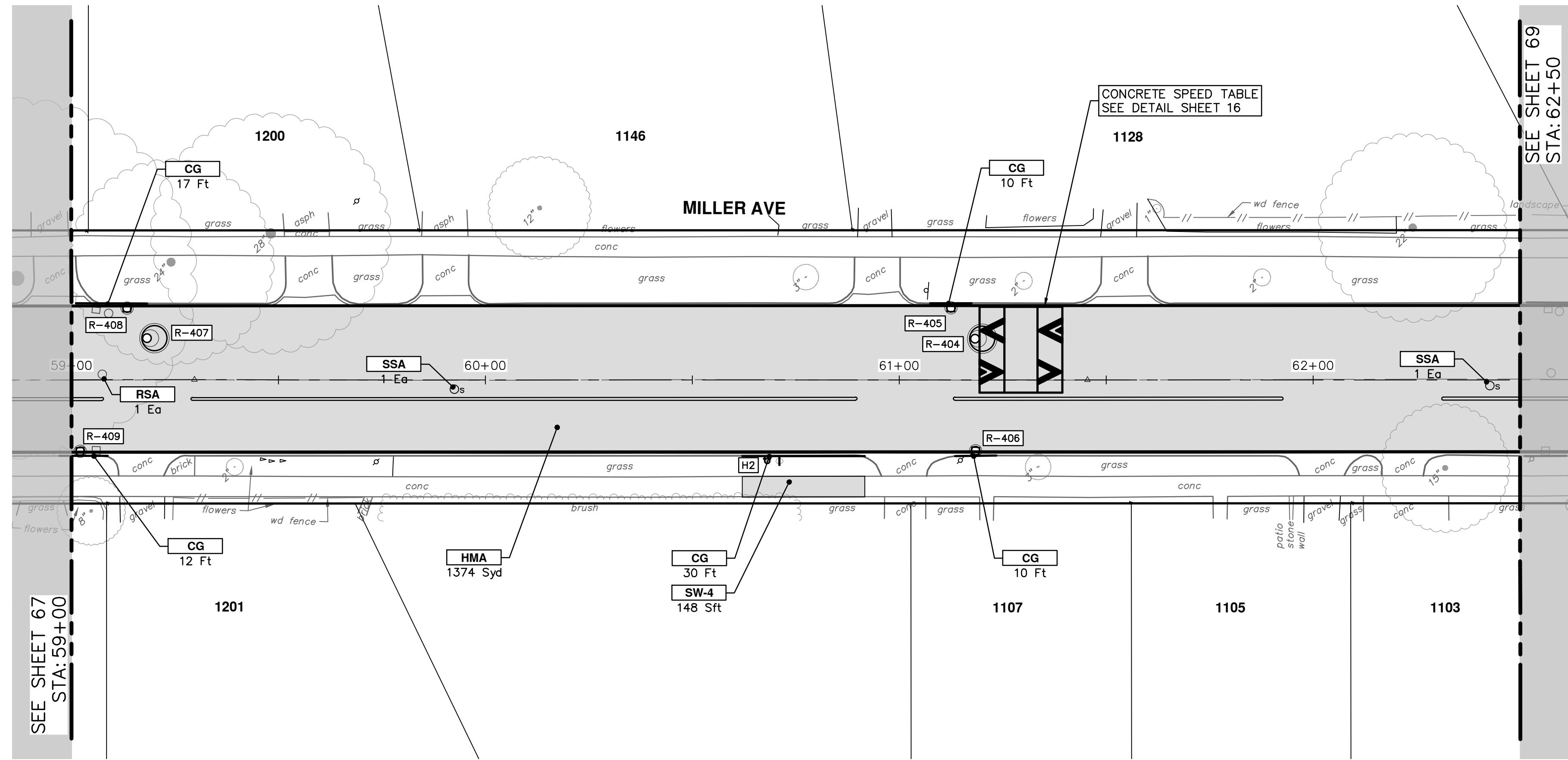
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2022034-67

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|------|-------------|--------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 00 | BID SET | 4-9-24 | AZD | JKA |

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| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
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| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

811
Know what's below.
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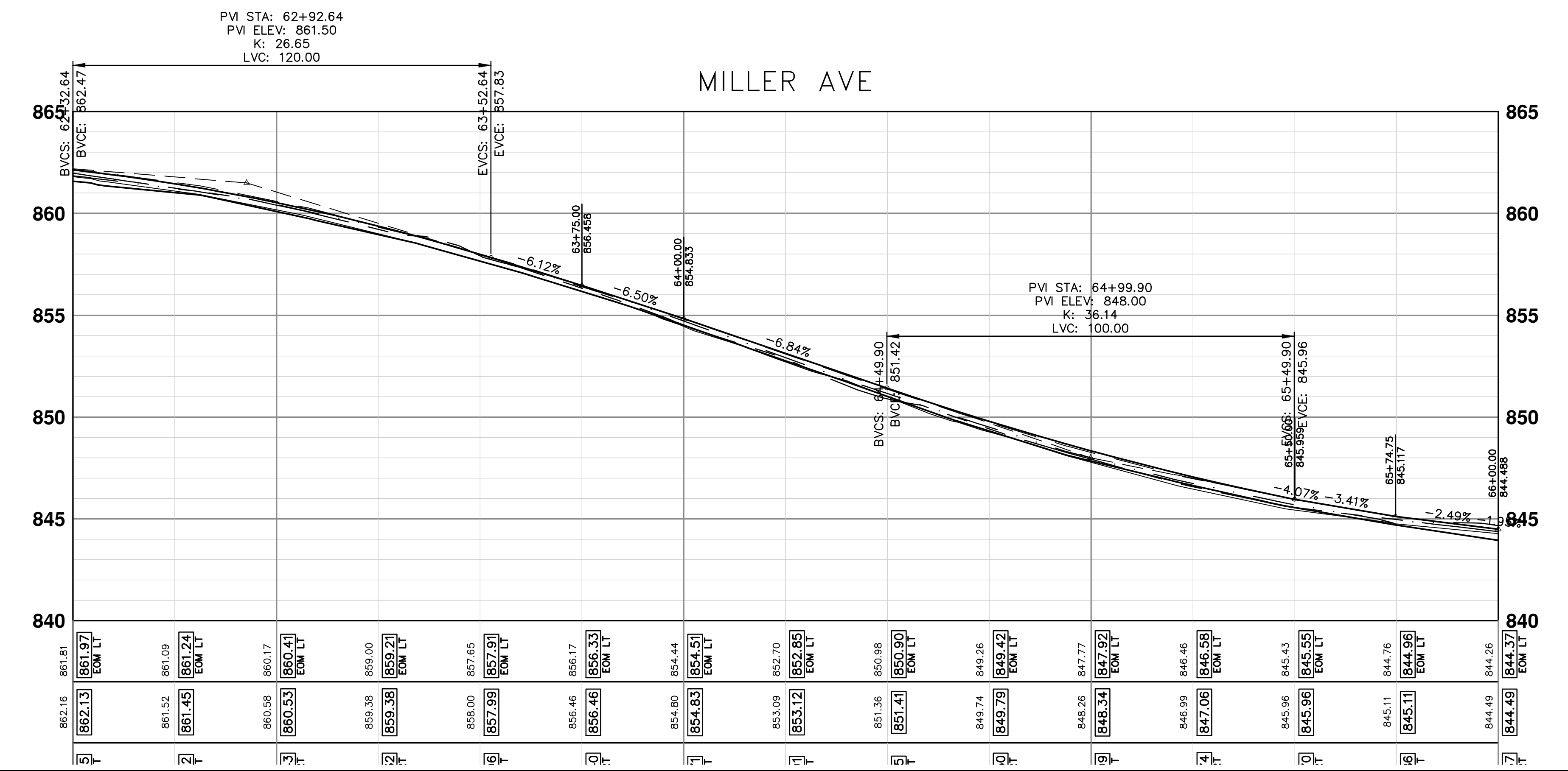
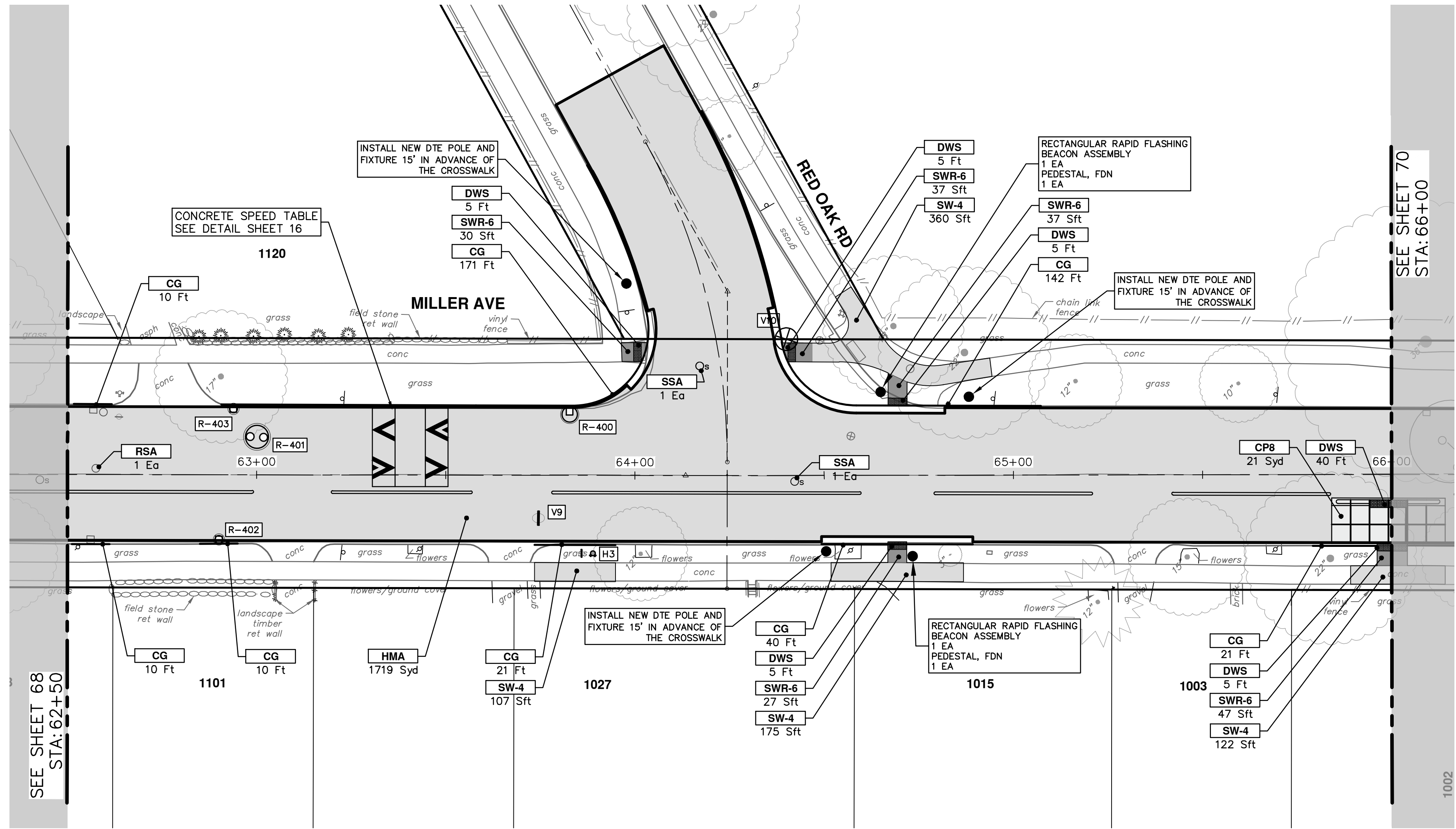
DATE: 4-9-24
DRAWN: JKA
CHECKED: JKA

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
 ROAD PLAN & PROFILE
 STA. 59+00 - STA. 62+50

SHEET No. 68 OF 130

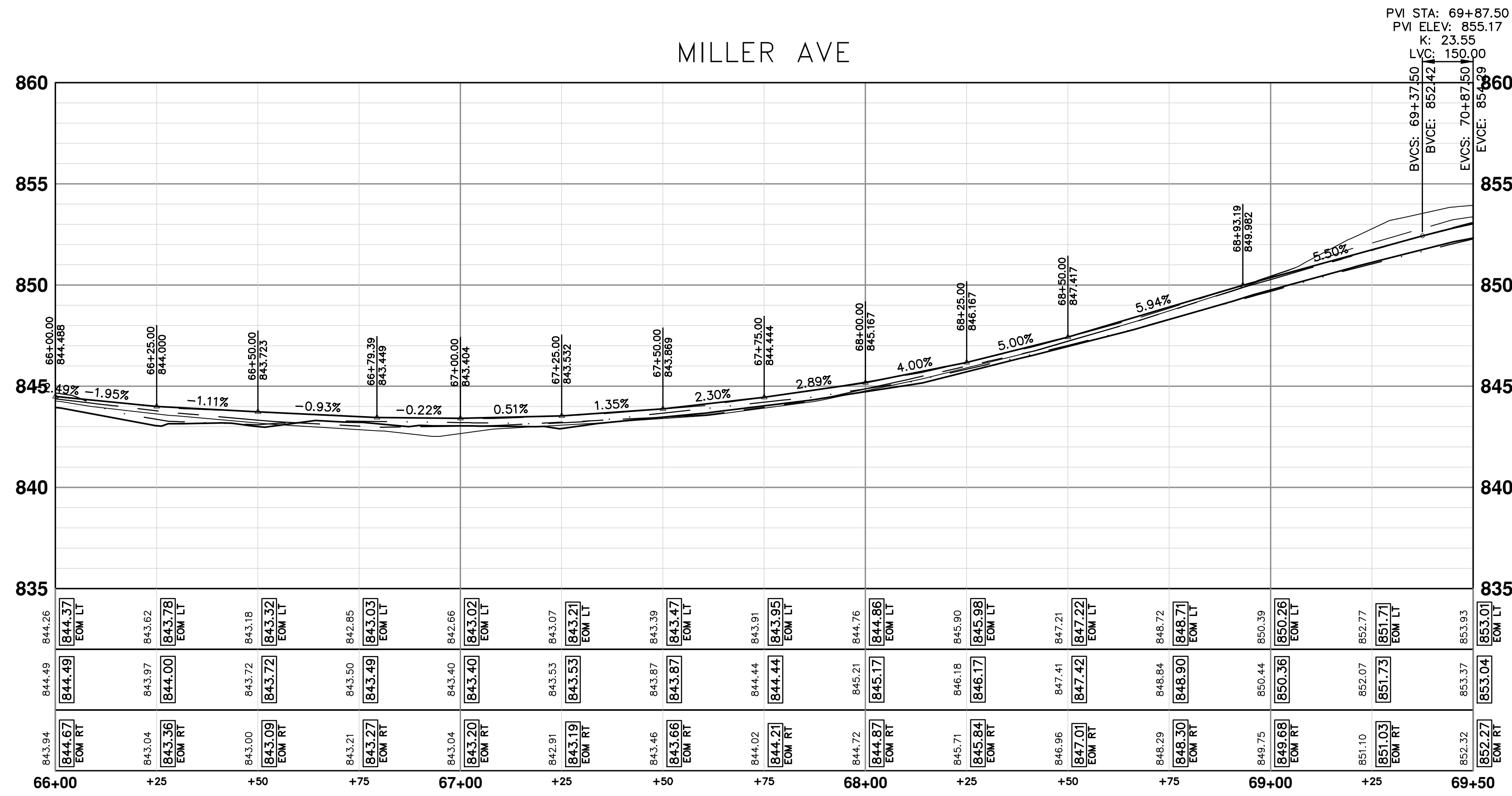
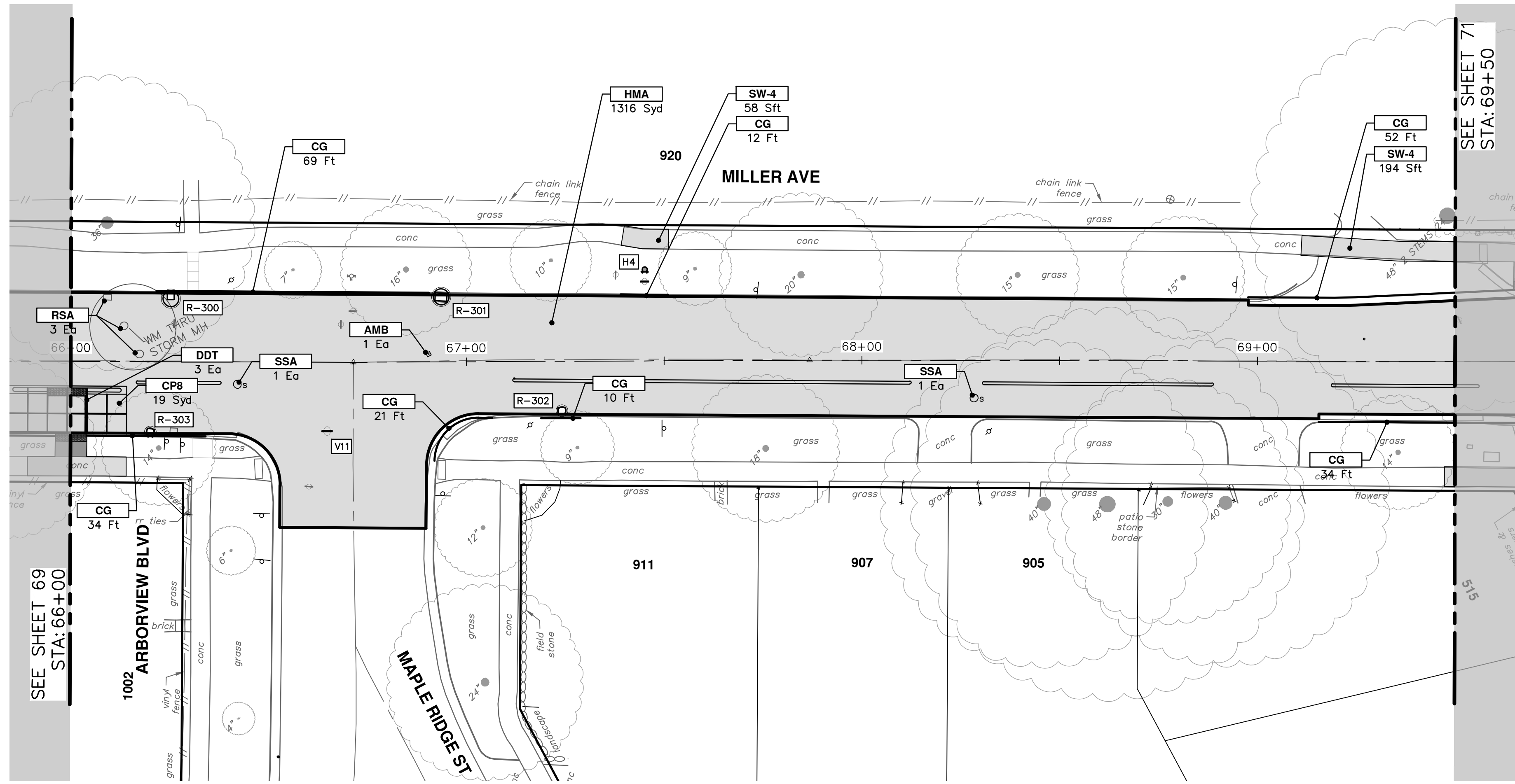
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2022034-68

CITY OF ANN ARBOR
 PUBLIC SERVICES
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 ANN ARBOR, MI 48106-8647
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CONSTRUCTION KEY

| KEY | DESCRIPTION |
|---------|--|
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |



| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

ROAD PLAN & PROFILE

STA. 66+00 - STA. 69+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

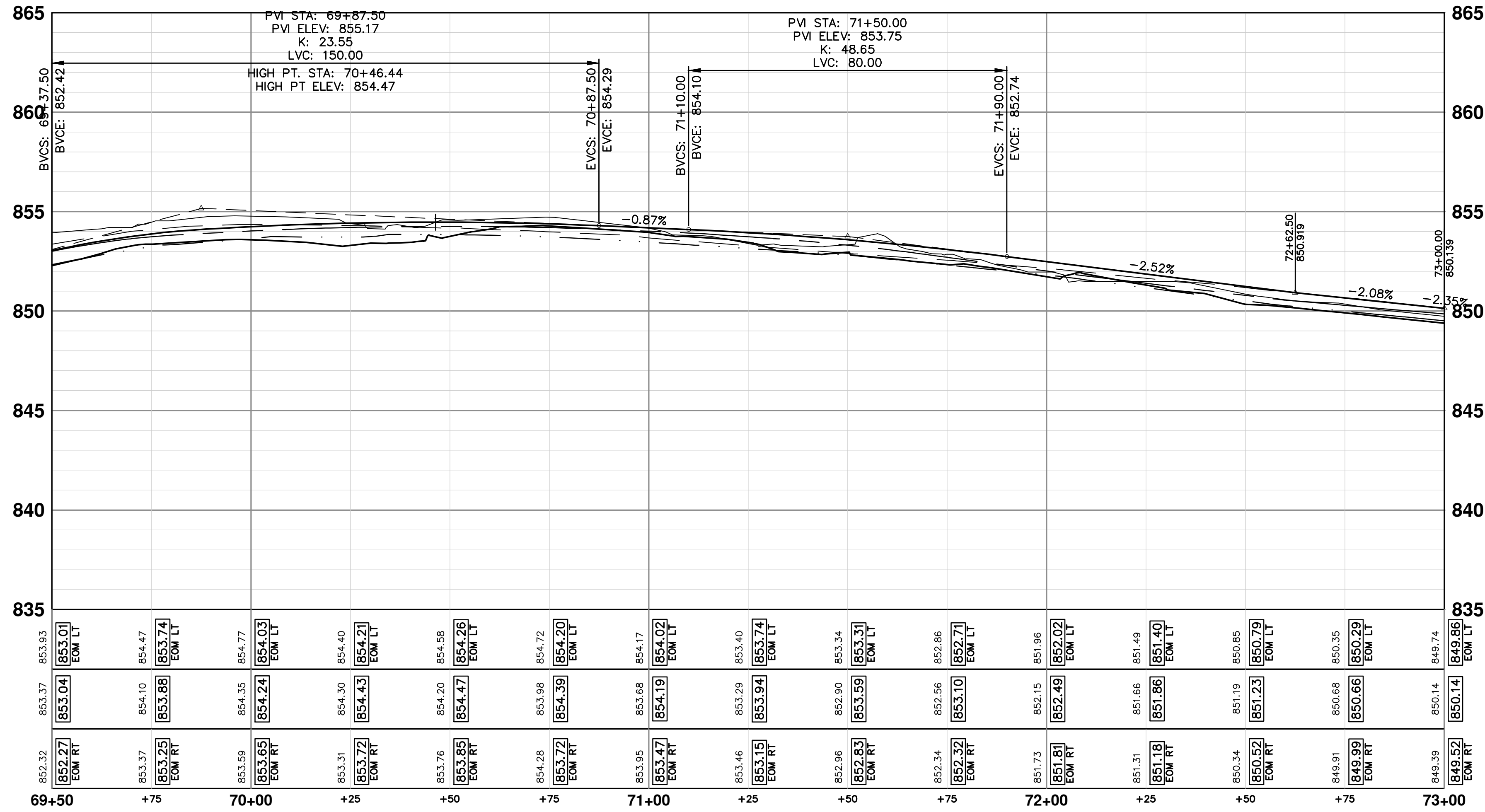
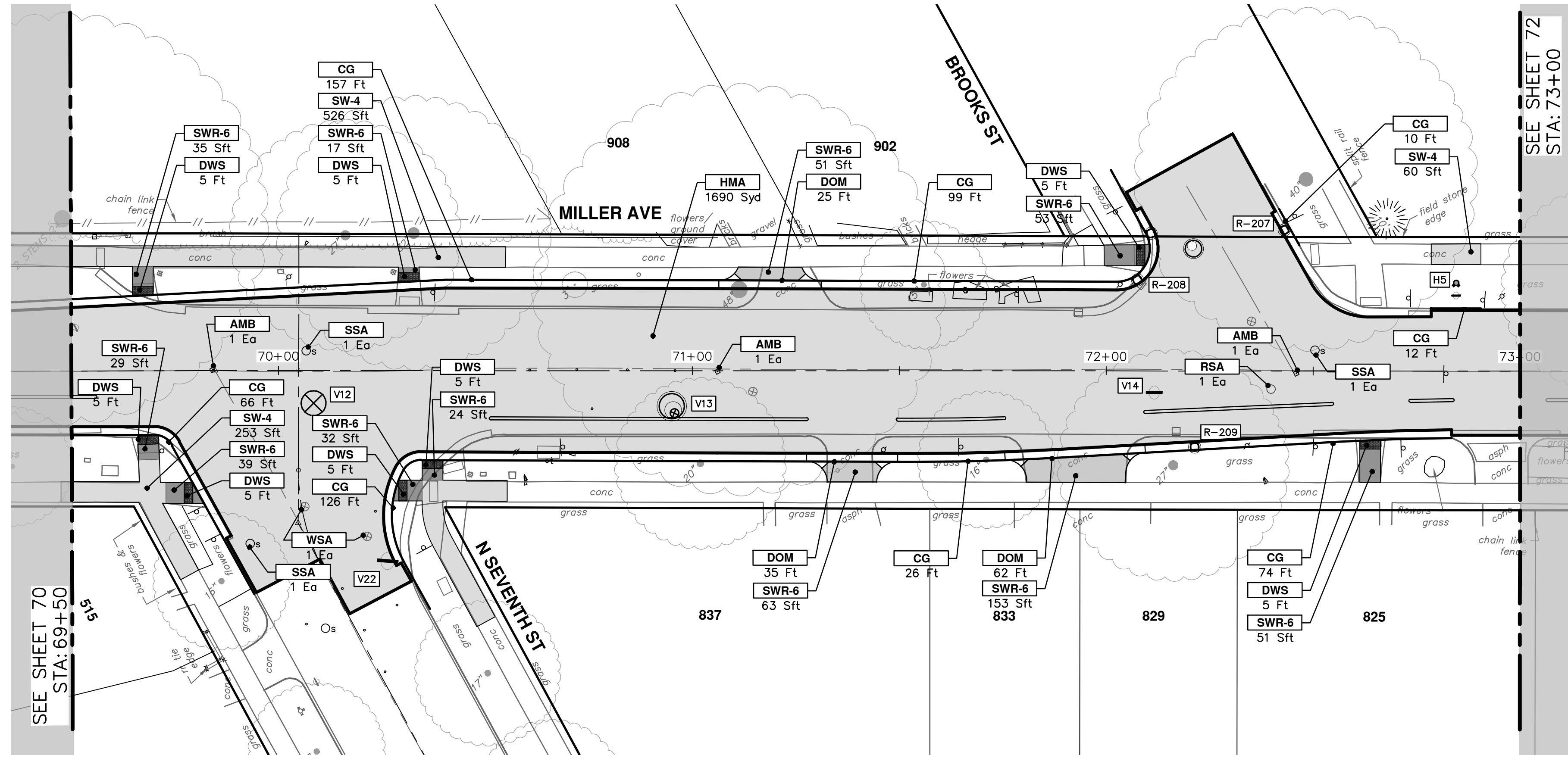
DRAWING NO. 2022034-70

SHEET NO. 70 OF 130

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| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

ROAD PLAN & PROFILE

STA. 69+50 - STA. 73+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

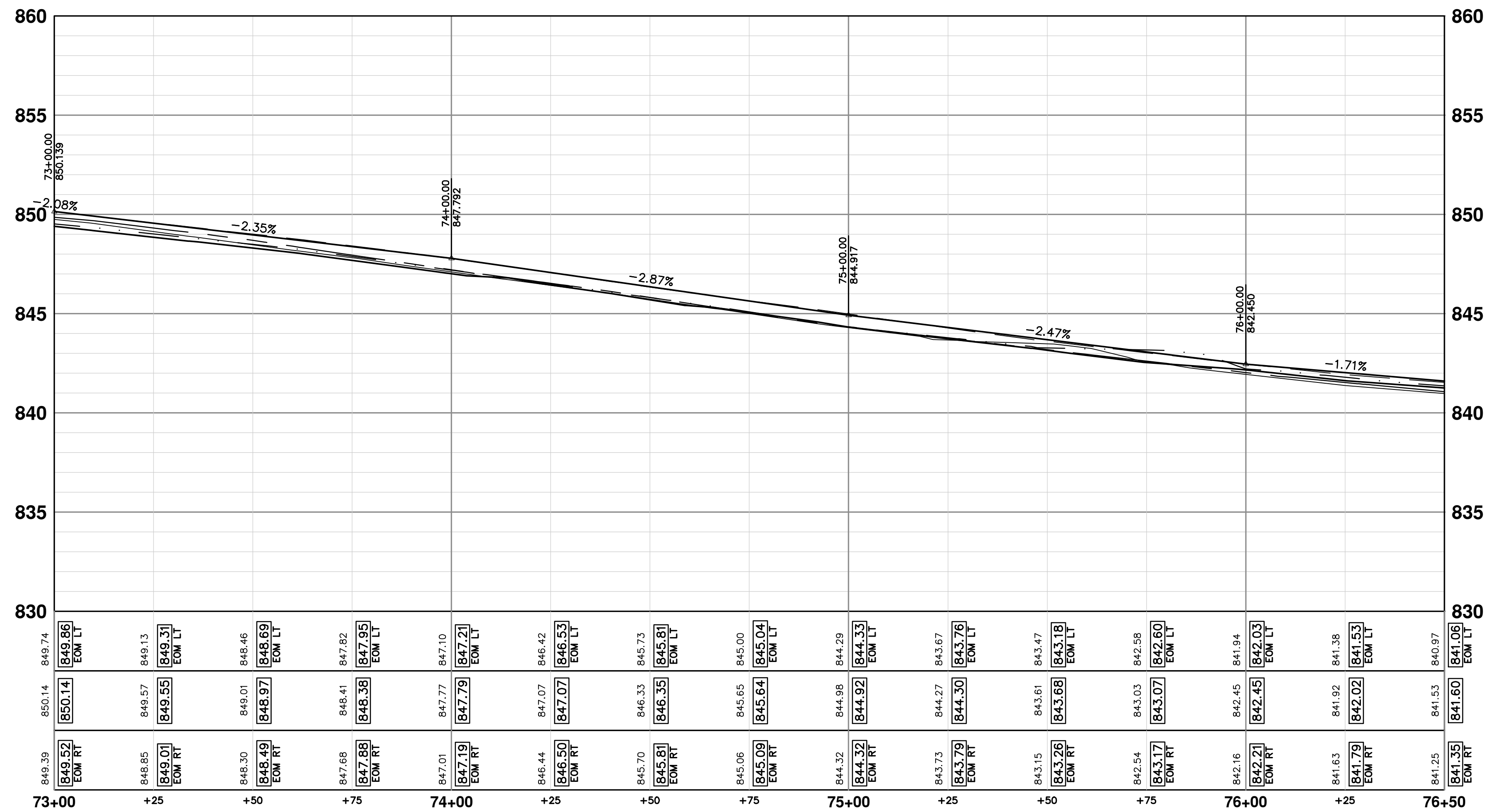
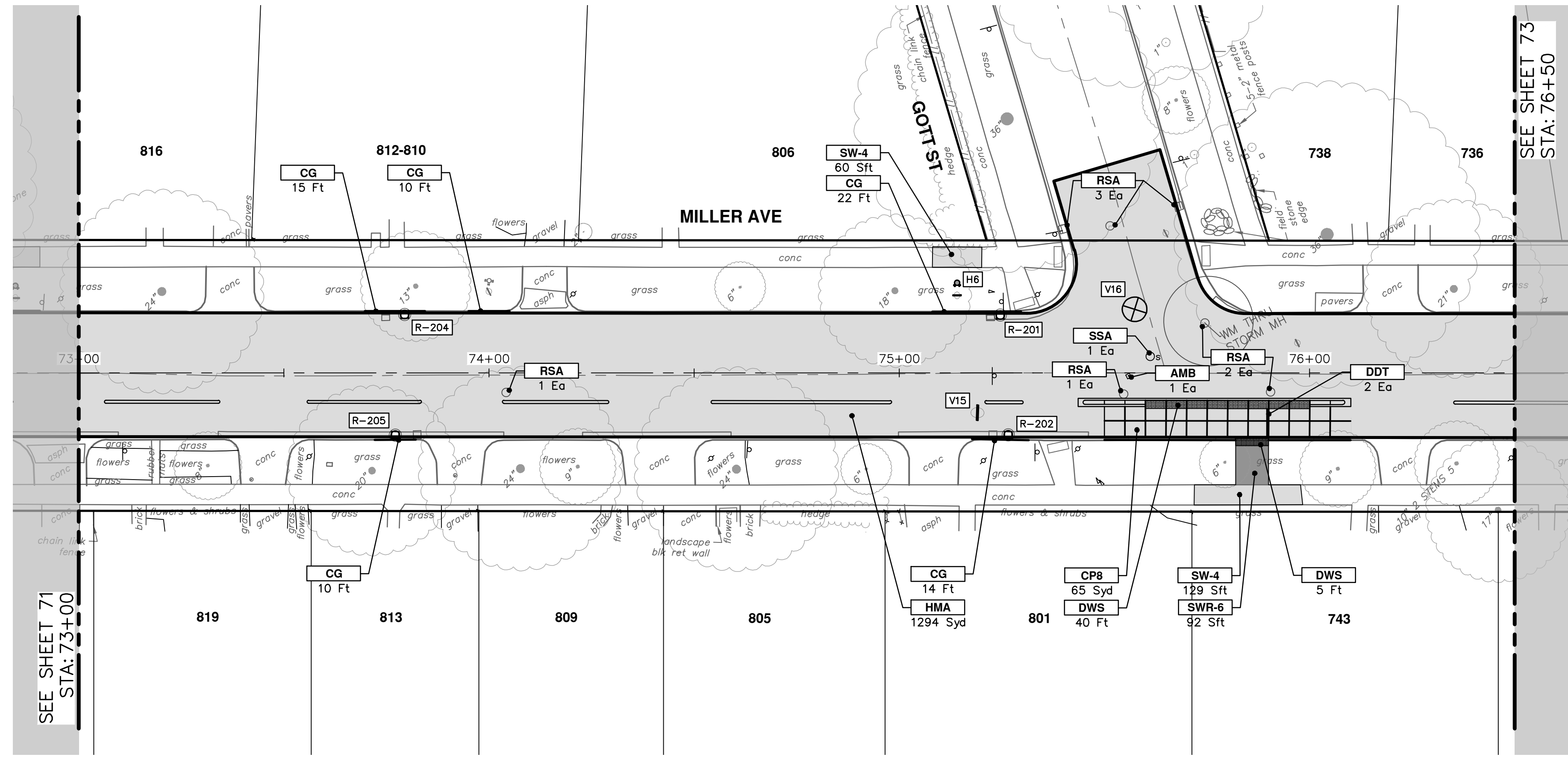
DRAWING NO. 2022034-71

SHEET No. 71 OF 130

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| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc. Curb or Curb & Gutter, All Types |
| DOM | Conc. Driveway Opening, Type M |
| DOM-HE | Conc. Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc. Sidewalk, 4 In. |
| SWR-6 | Conc. Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc. Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

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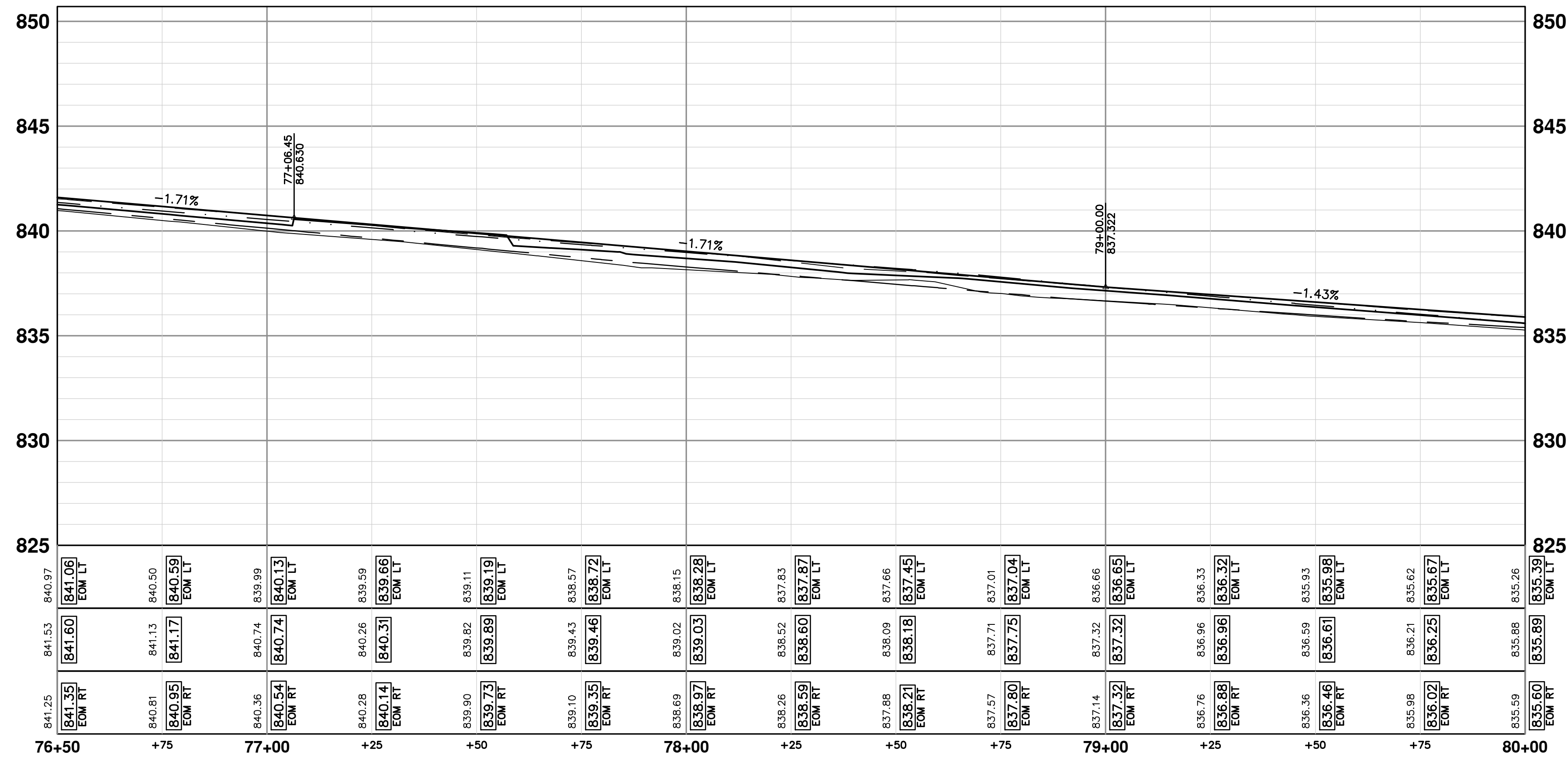
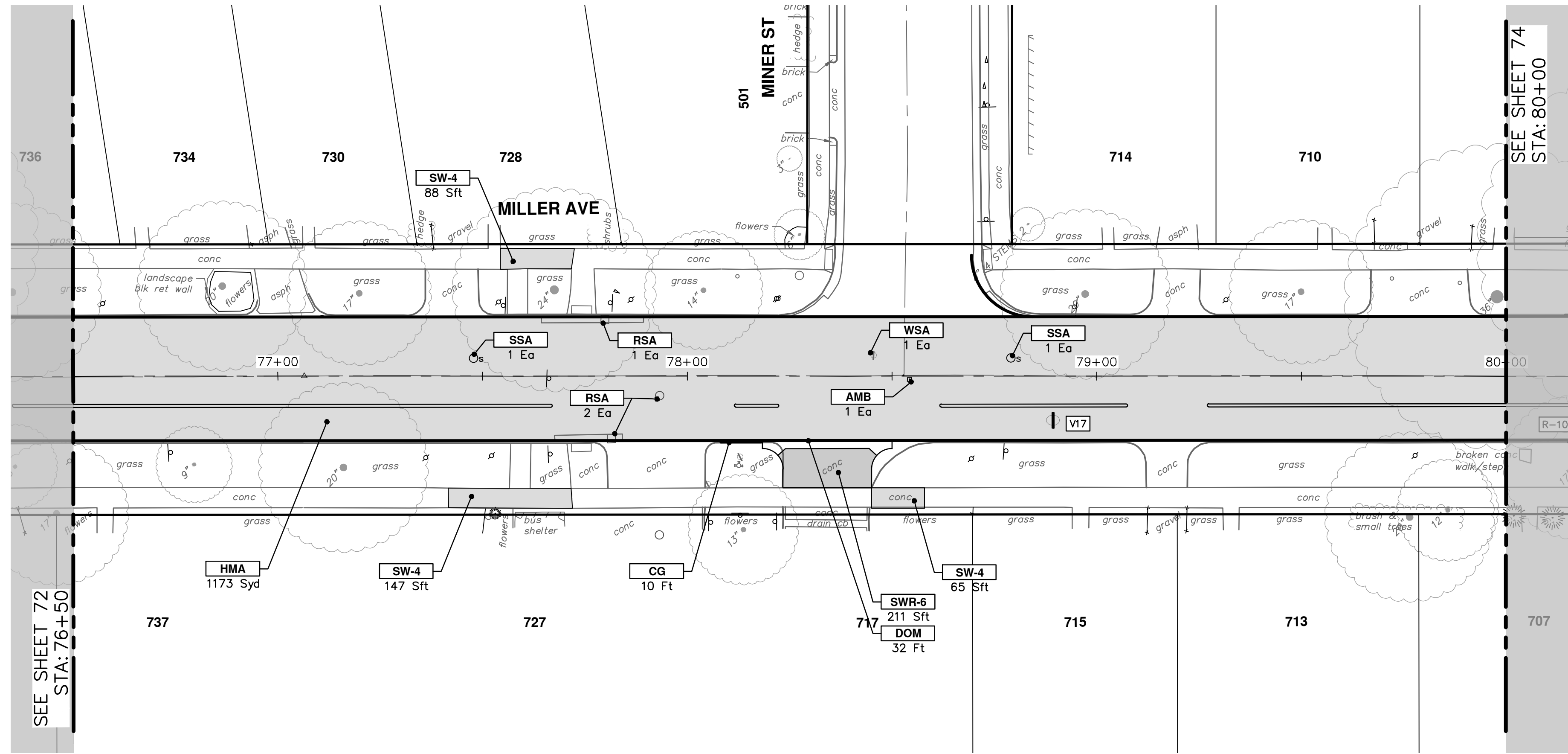
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MICHIGAN

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MILLER AVENUE REHABILITATION
ROAD PLAN & PROFILE

STA. 73+00 - STA. 76+50

SHEET No. 72 OF 130

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 202034-72



| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |



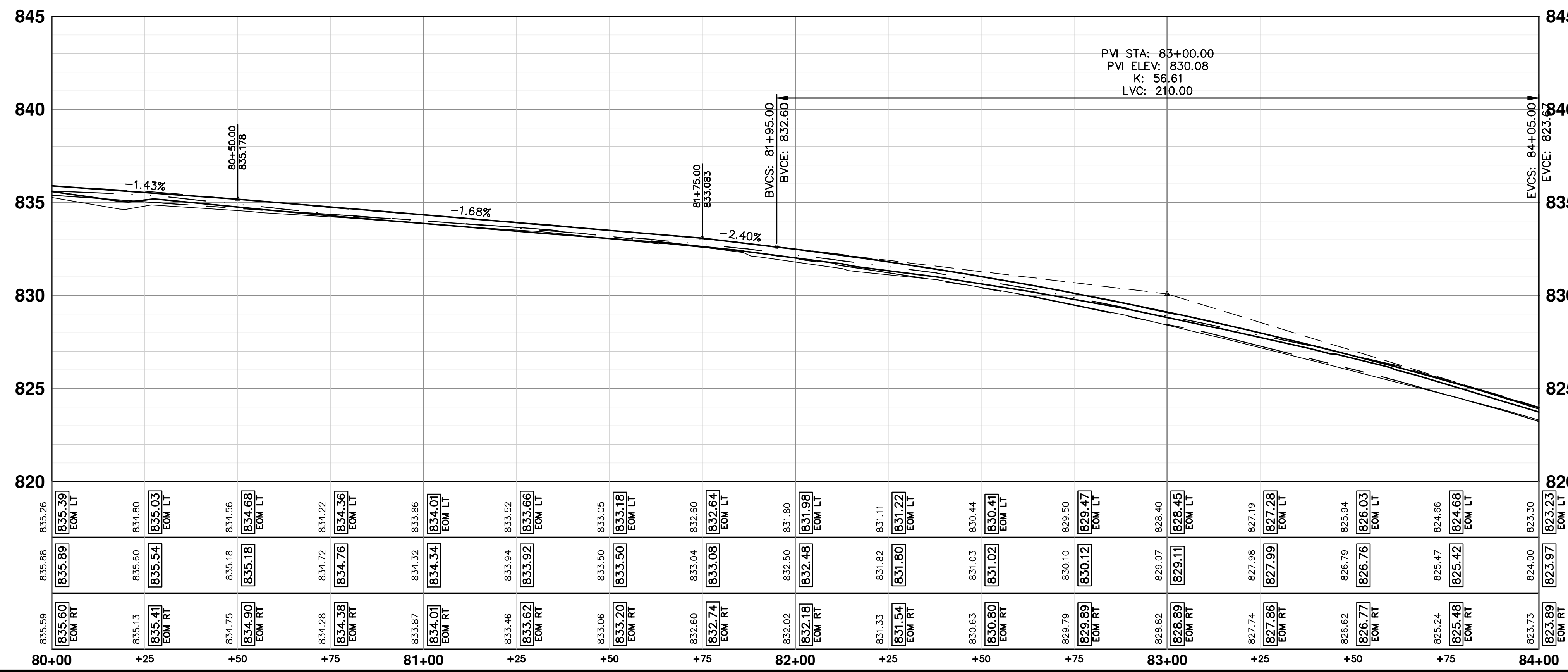
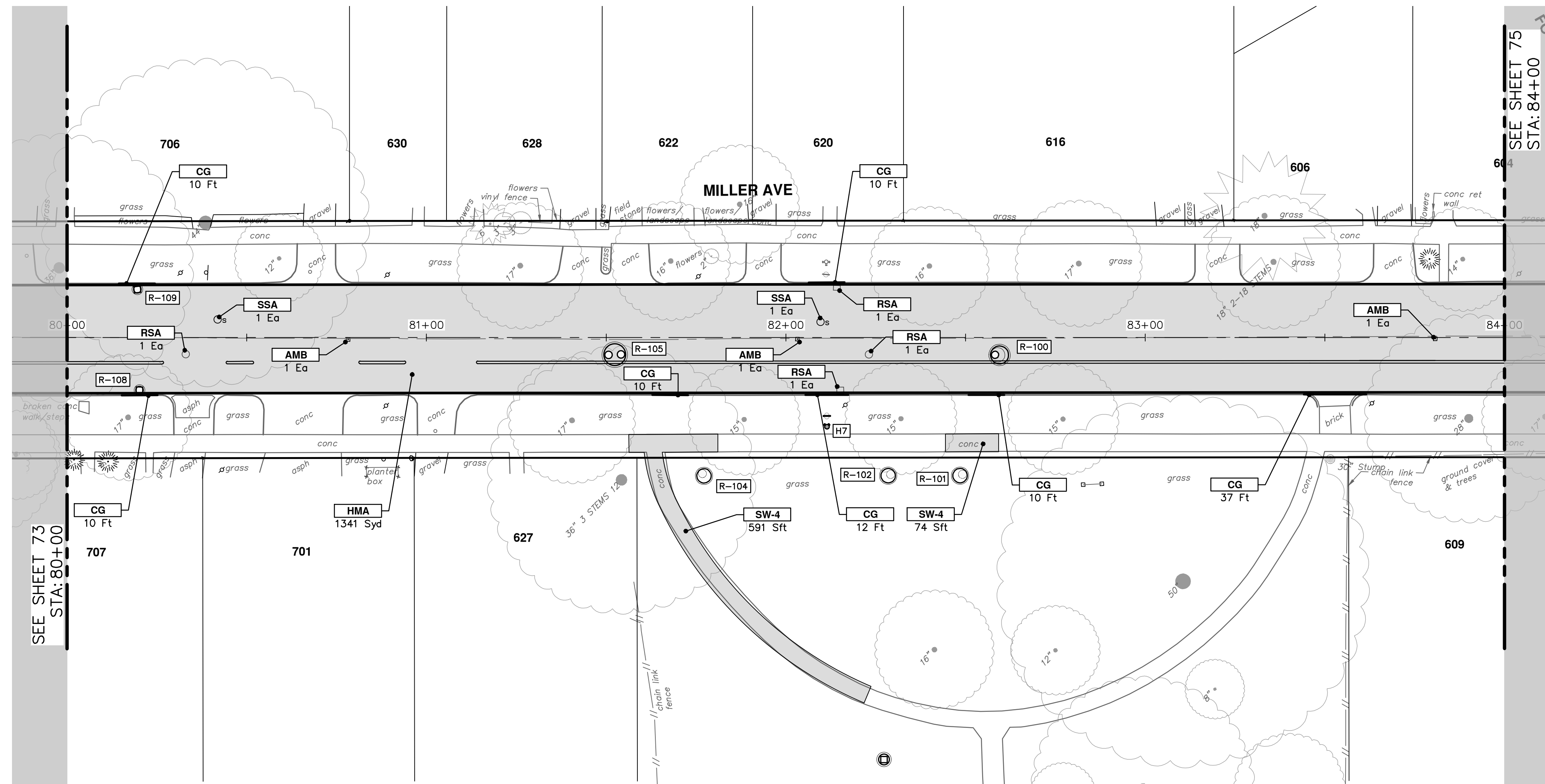
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MILLER AVENUE REHABILITATION
ROAD PLAN & PROFILE
STA. 76+50 - STA. 80+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2022034-73



| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
| HMA APP | HMA Approach |
| HP | Hand Patching |
| CG | Conc, Curb or Curb & Gutter, All Types |
| DOM | Conc, Driveway Opening, Type M |
| DOM-HE | Conc, Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc, Sidewalk, 4 In. |
| SWR-6 | Conc, Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc, Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |



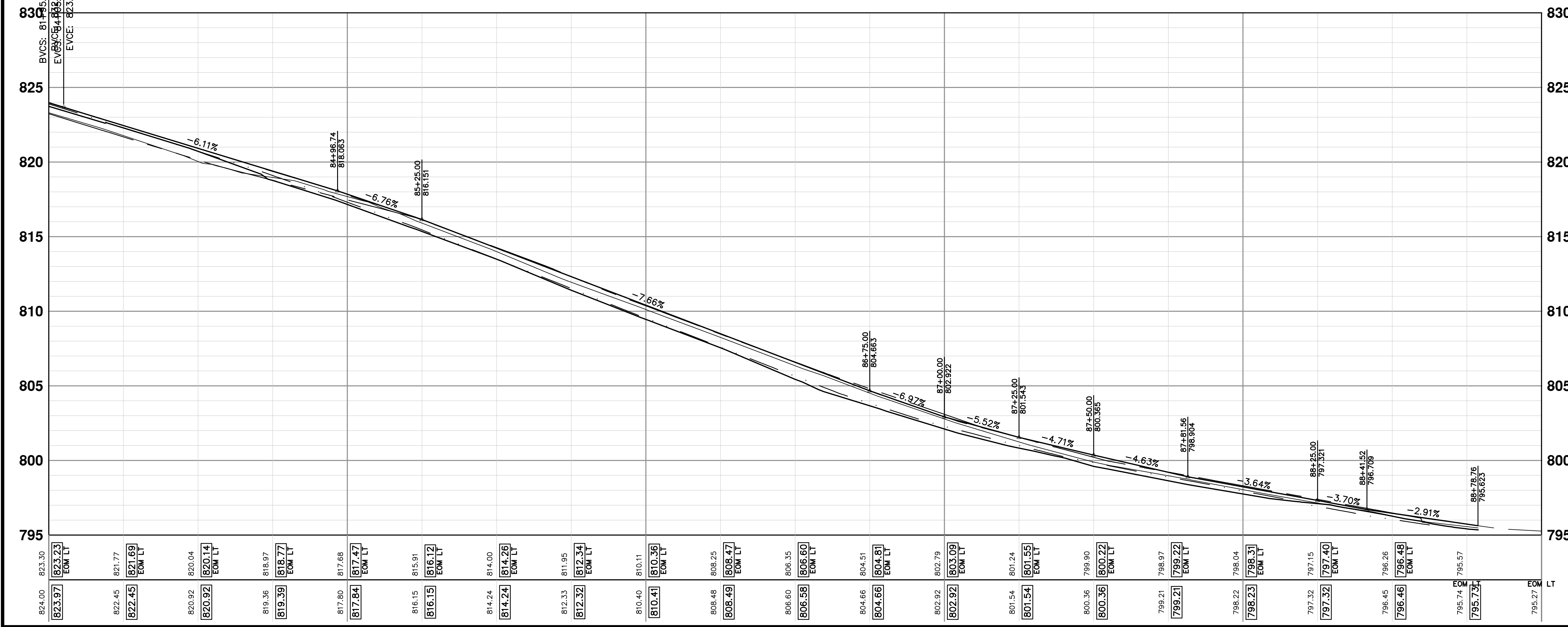
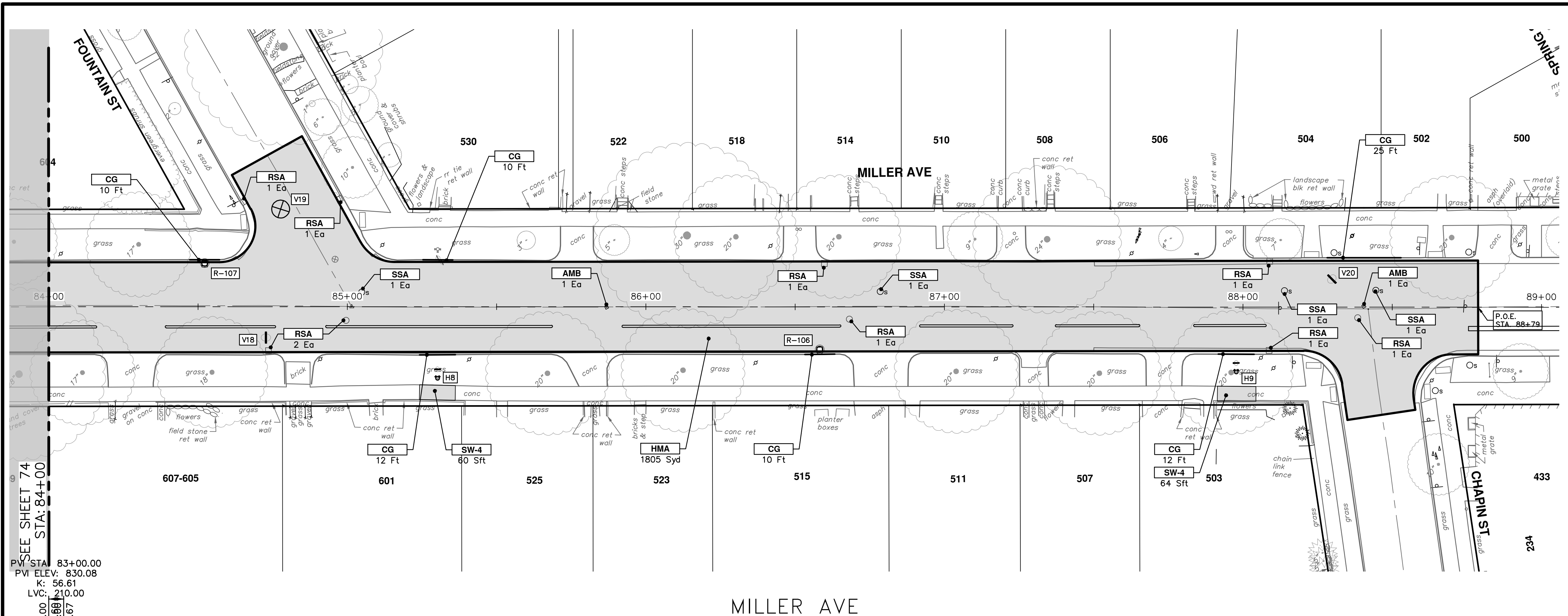
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MILLER AVENUE REHABILITATION
ROAD PLAN & PROFILE
STA. 80+00 - STA. 84+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO. 2022034-74

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |



| CONSTRUCTION KEY | |
|------------------|--|
| KEY | DESCRIPTION |
| HMA | PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER. |
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| HP | Hand Patching |
| CG | Conc. Curb or Curb & Gutter, All Types |
| DOM | Conc. Driveway Opening, Type M |
| DOM-HE | Conc. Driveway Opening, Type M, High Early |
| DG-6 | DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P. |
| MGD | MACHINE GRADING, DRIVEWAY |
| SW-4 | Conc. Sidewalk, 4 In. |
| SWR-6 | Conc. Sidewalk, Drive Approach, or Ramp, 6 In. |
| SW6-HE | Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early |
| SW8 | Conc. Sidewalk, Drive Approach, or Ramp, 8 In. |
| CP8 | Conc Pavt, Non-Reinf, 8 in. |
| DWS | Detectable Warning Surface |
| DDT | Detectable Directional Tiles |
| ABO | ADJUST BY OTHERS |
| AMB | Monument Box, Adjust |
| AGB | Gate Box, Adjust |
| RSA | Storm Structure Cover, Adjust |
| SSA | Sanitary Structure Cover, Adjust |
| WSA | Water Structure Cover, Adjust |

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Call Before you dig.

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DRAWN: AZD
CHECKED: JKA

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STA. 84+00 - SA. 88+79

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

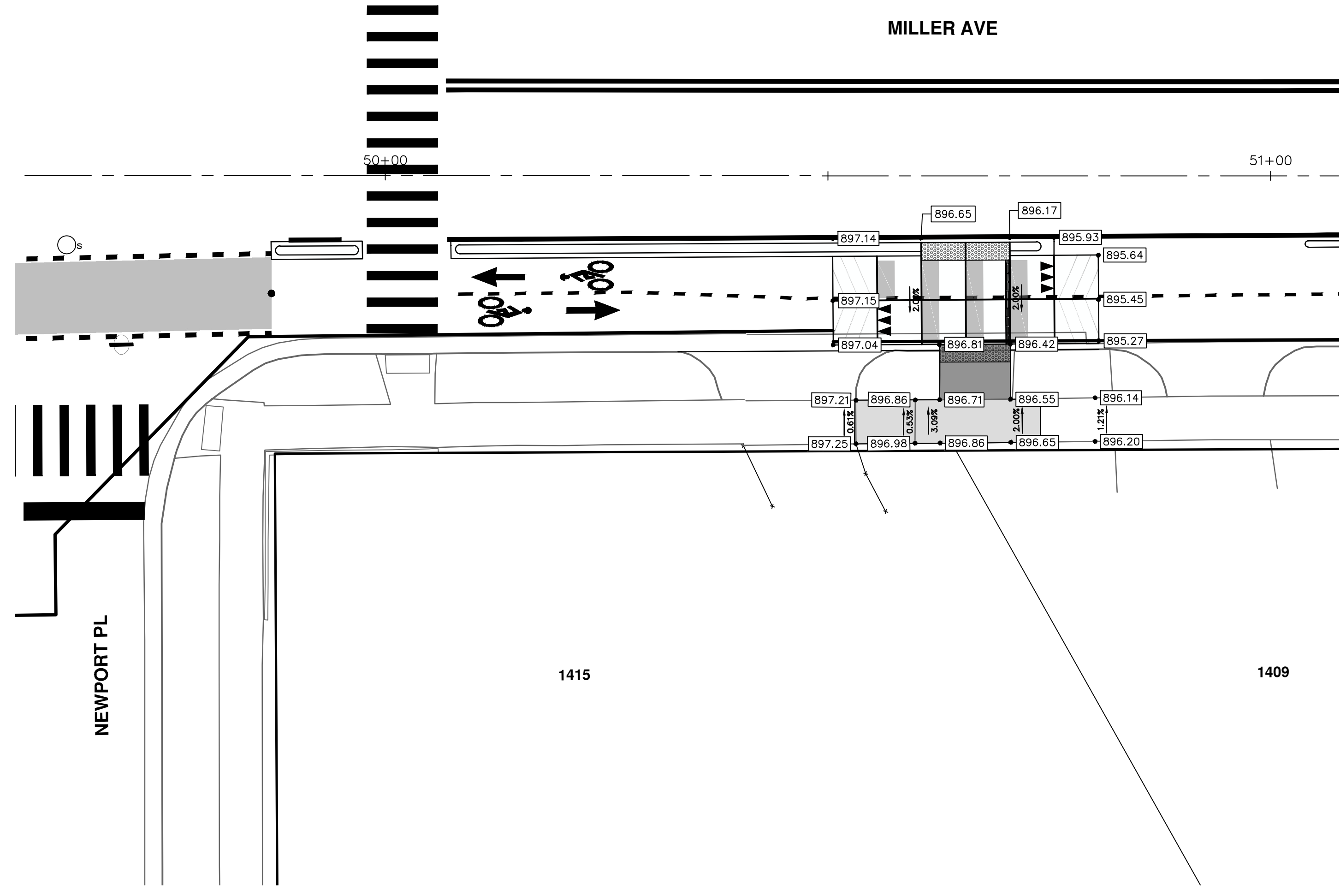
ROAD PLAN & PROFILE

PROFILE: 1" = 4'

DRAWING NO. 2022034-75

SHEET No. 75 OF 130

SCALE PLAN: 1" = 20'



NEWPORT PL

MILLER AVE

1415

1409

SHEET No.

76 OF 130

SCALE PLAN: 1" = 10'

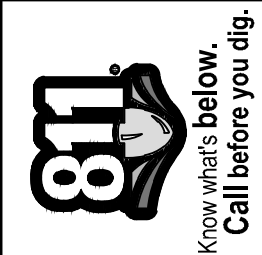
DRAWING No.
2022034-76

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
 INTERSECTION GRADES
 BUS STOP NEAR NEWPORT PL.

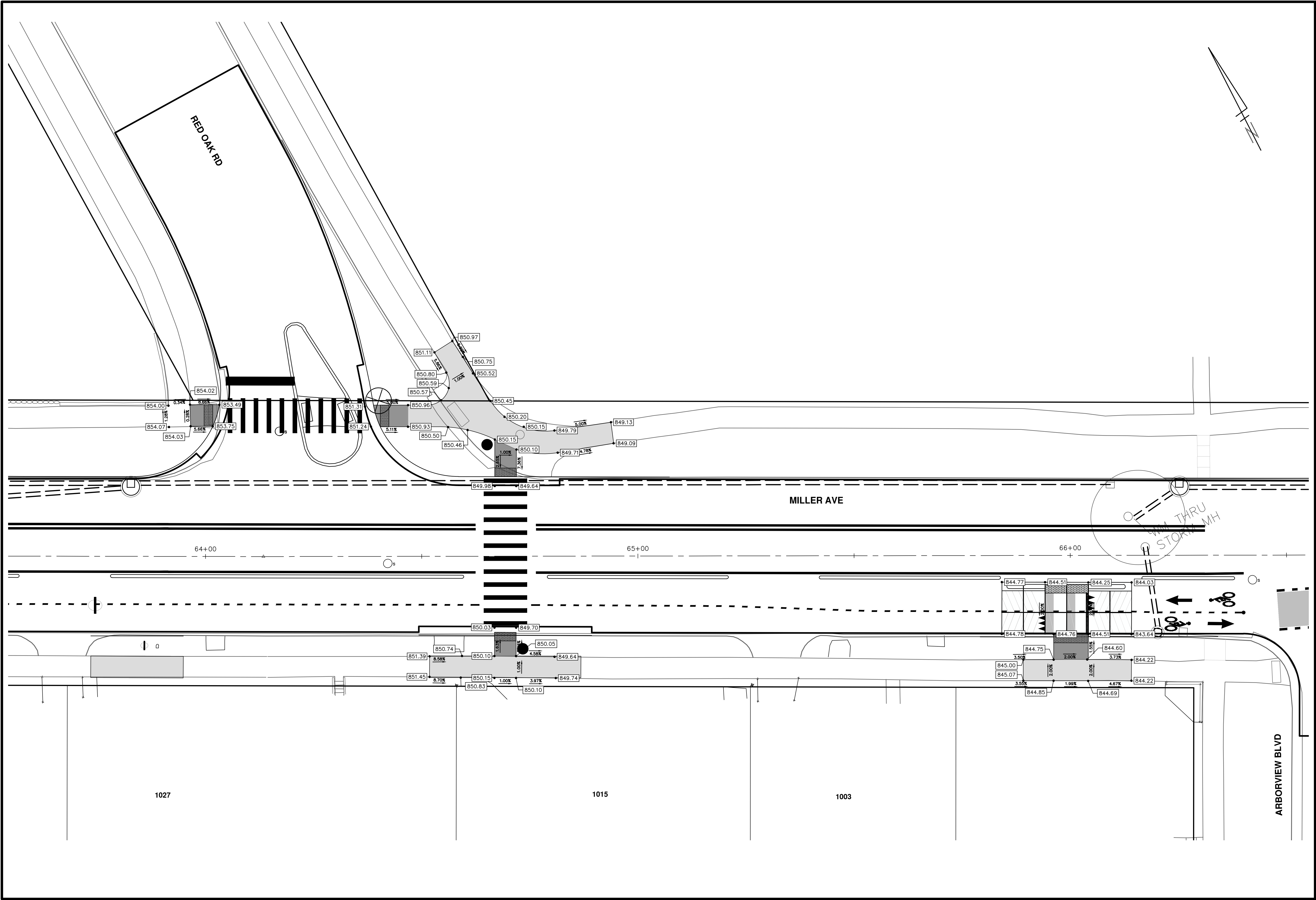


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R:\2022034_Miller_Ave_Rehab\Plan_Production\2022034IG.dwg Dwg Created: 29-Mar-24 - _c2_standard_bw.stb - Plot Date: 5-Apr-24



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
 INTERSECTION GRADES

RED OAK RD., BUS STOP NEAR ARBORVIEW BLVD.

SCALE PLAN: 1" = 10'
 DRAWING No. 2022034-77

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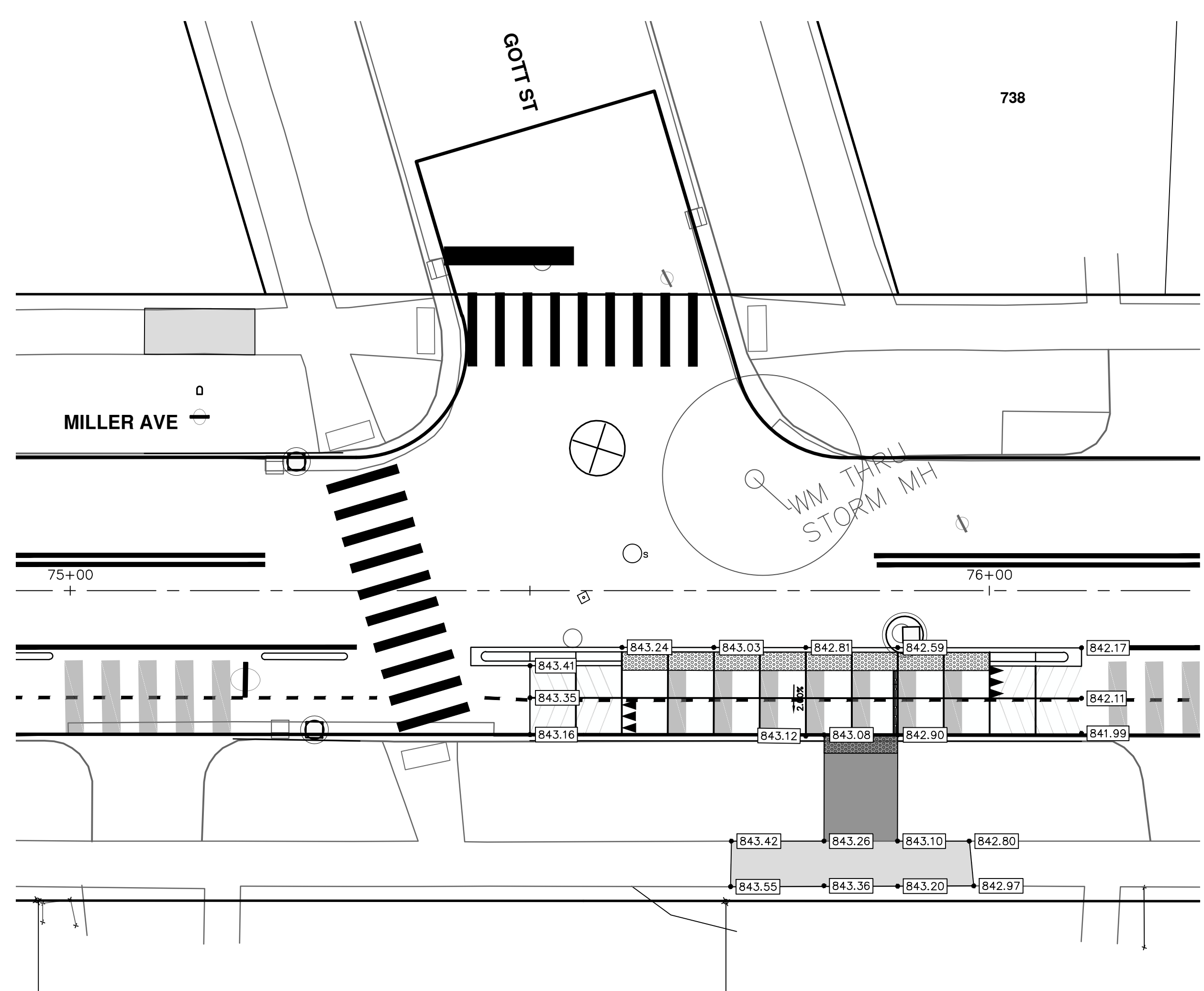
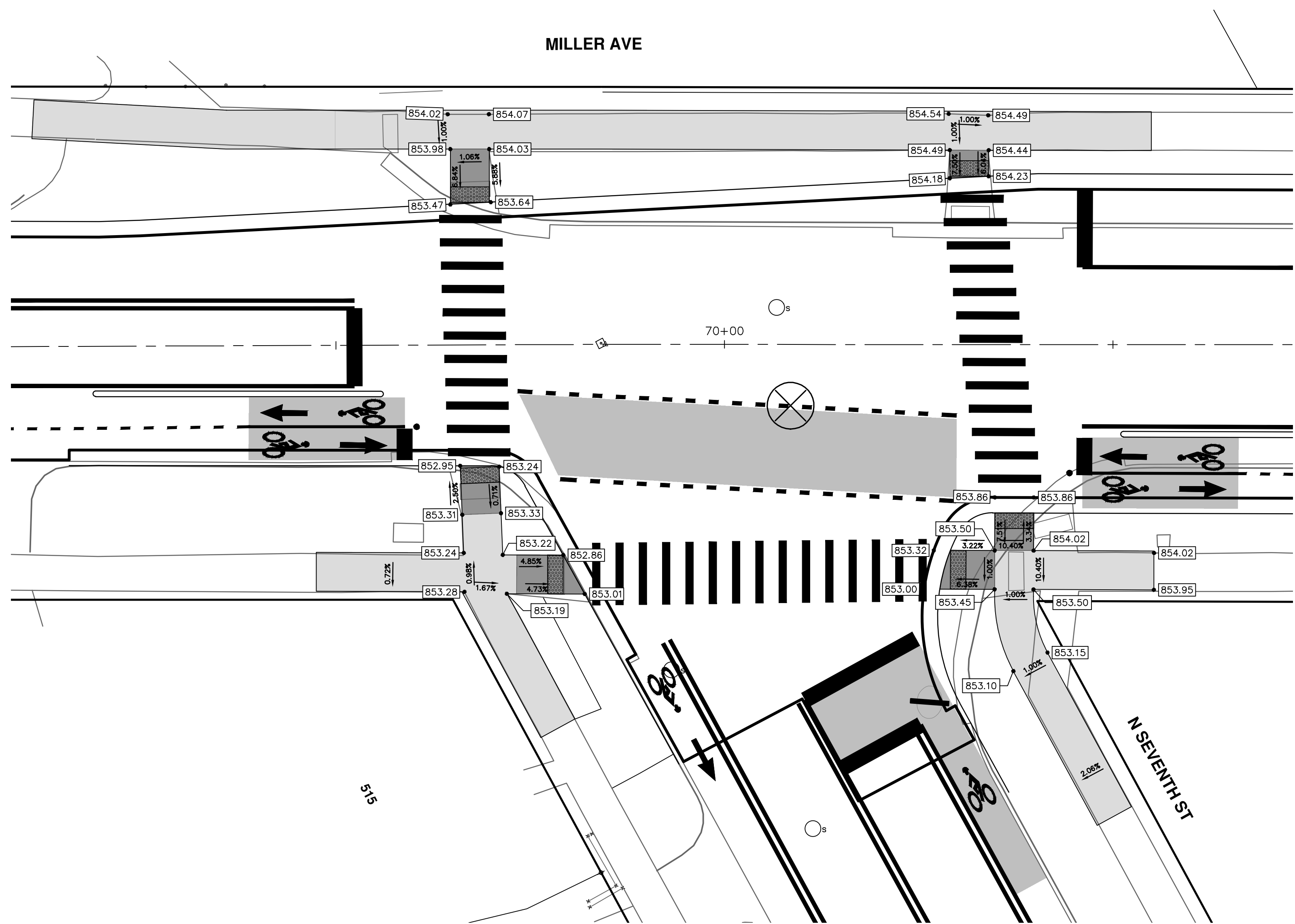
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|------|-------------|--------|-------|---------|
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SHEET No. **77 OF 130**

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

INTERSECTION GRADES

N SEVENTH ST, BUS STOP NEAR GOTT ST

SCALE PLAN: 1" = 10'

DRAWING No. 2022034-78

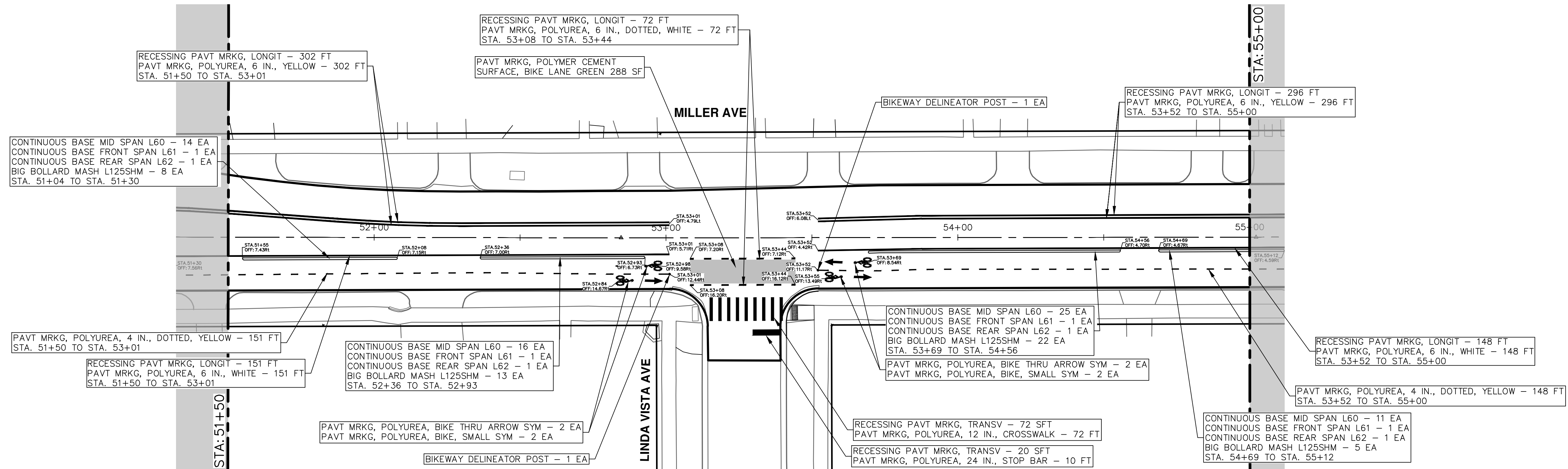
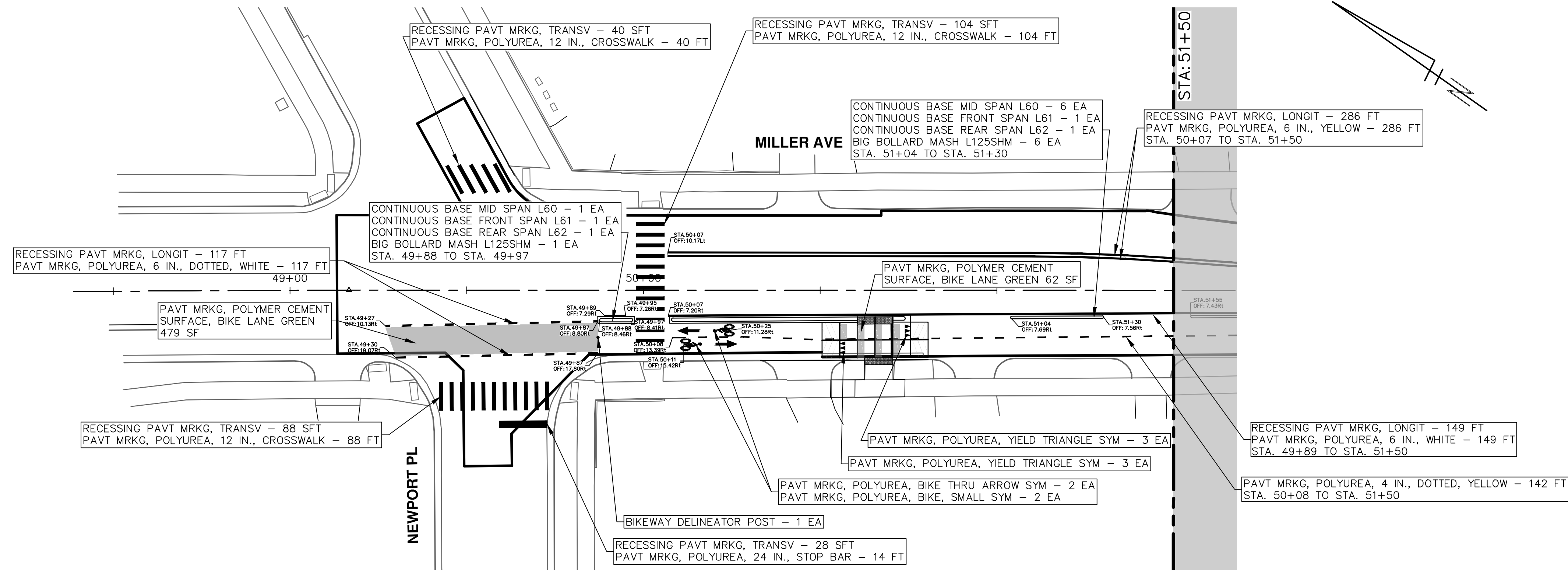
SHEET No. 78 OF 130

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|------|-------------|--------|-------|---------|
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| 00 | BID SET | 4-9-24 | AZD | JKA |

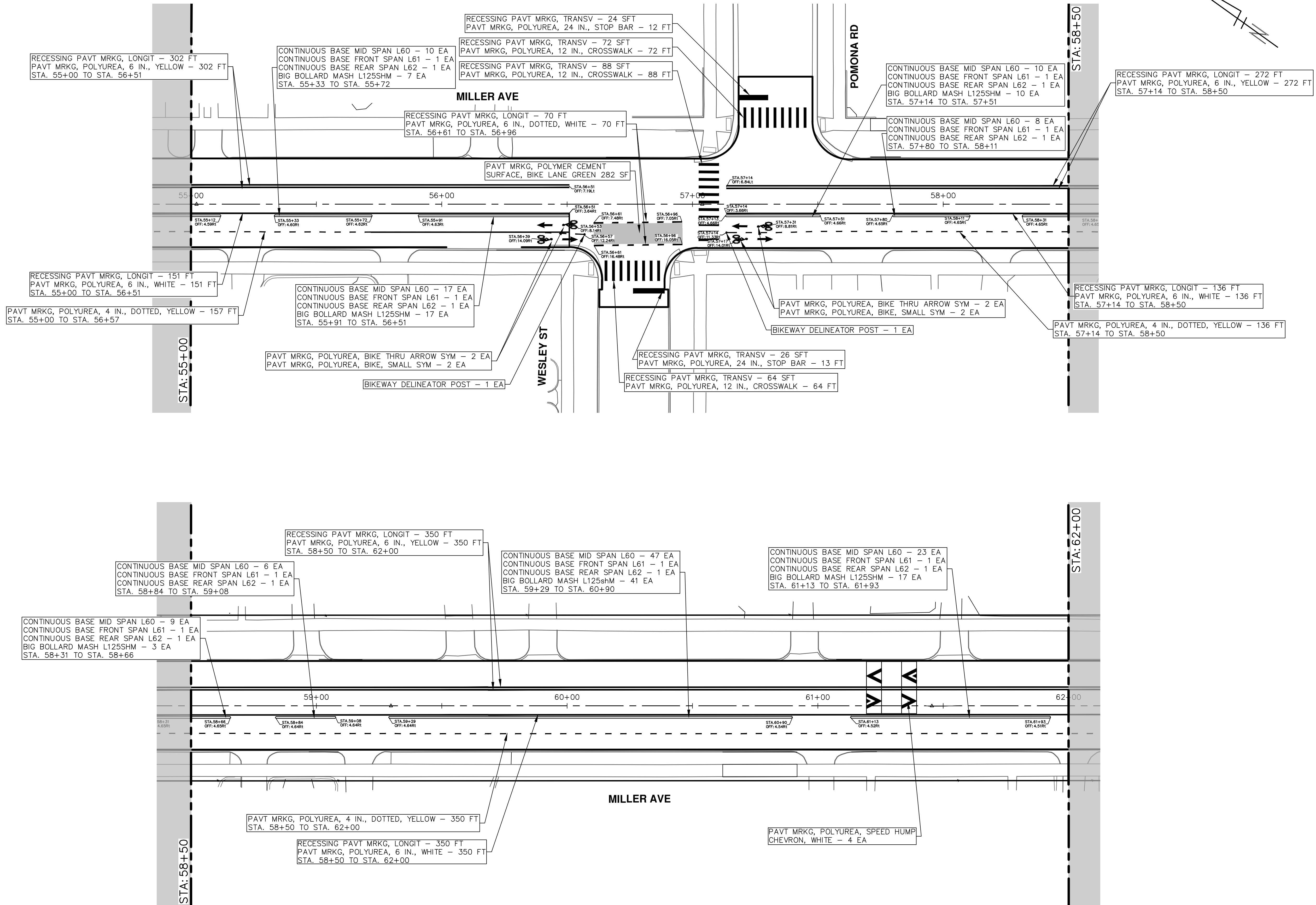
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS
P.O.B. - STA. 55+00

SCALE: 1" = 20'
DRAWING No. 2022034-79

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|--------|---------|--------------|----------------|
| 4-9-24 | DATE | AZD DRAWN | JKA CHECKED |
| 00 | BID SET | | |

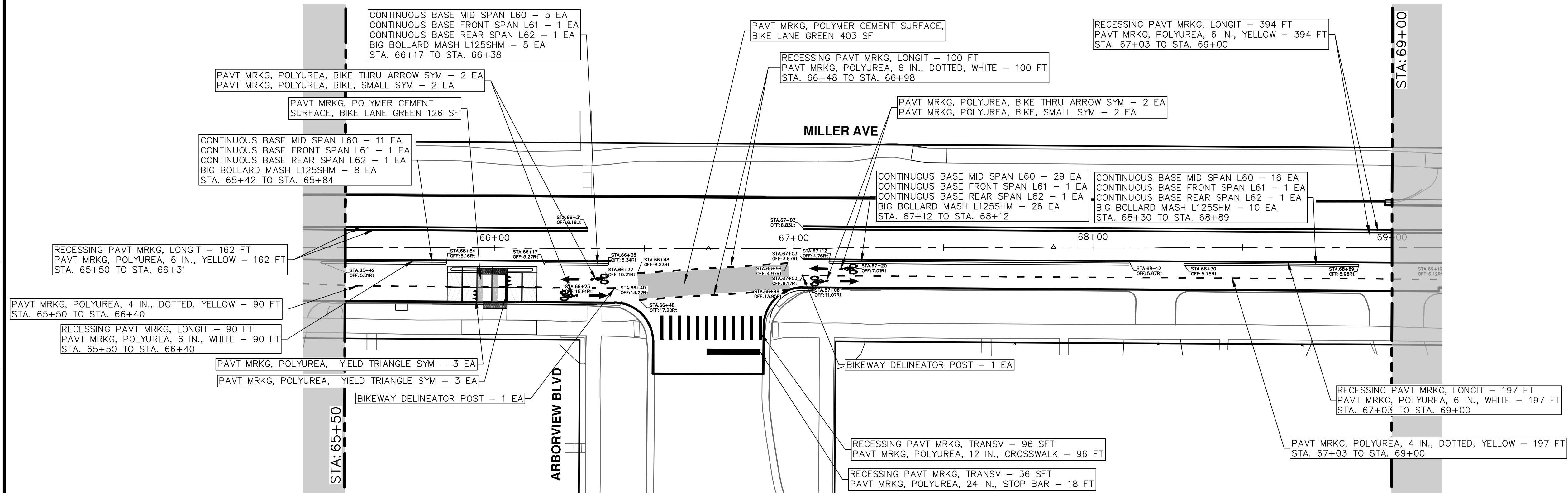
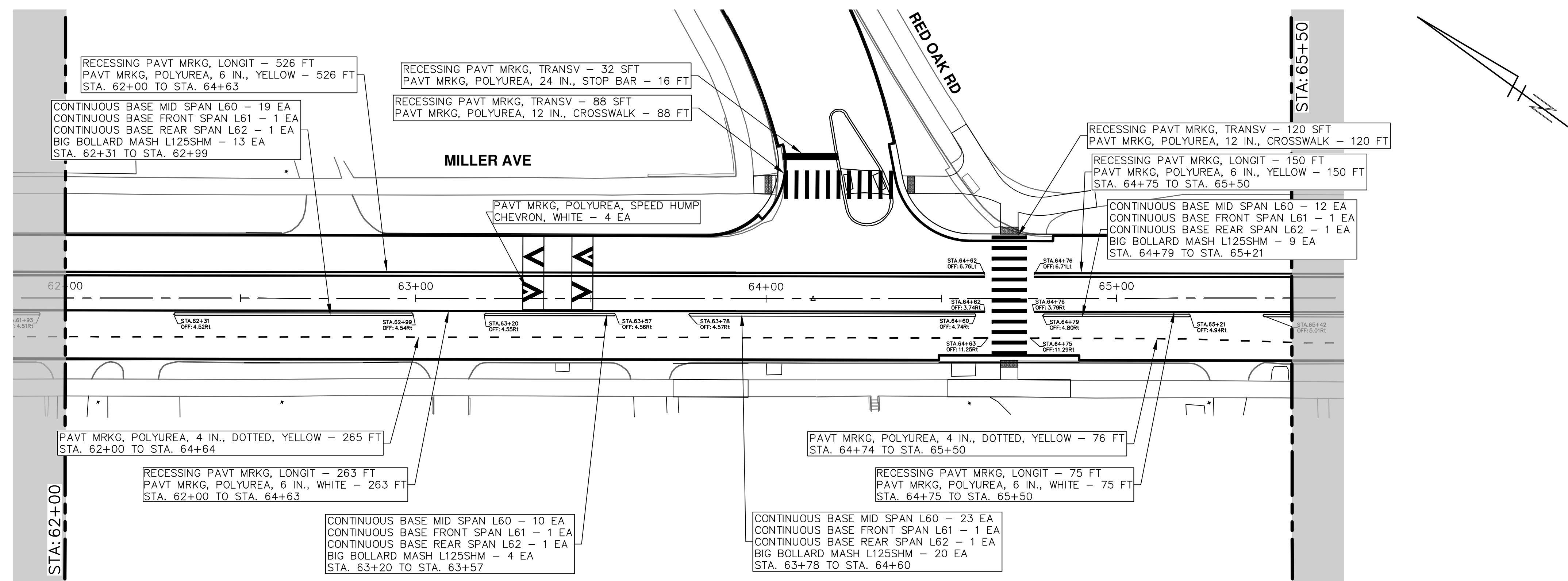
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CITY OF ANN ARBOR
MICHIGAN

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MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS
STA. 55+00 - STA. 62+00

SCALE: 1" = 20'
DRAWING No. 2022034-60
SHEET No. 80 OF 130

R:\2022034 Miller Ave Rehab\Plan Production\2022034Pmk.dwg Dwg Created: 29-Mar-24 - _o2_standard bw.stb - Plot Date: 5-Apr-24



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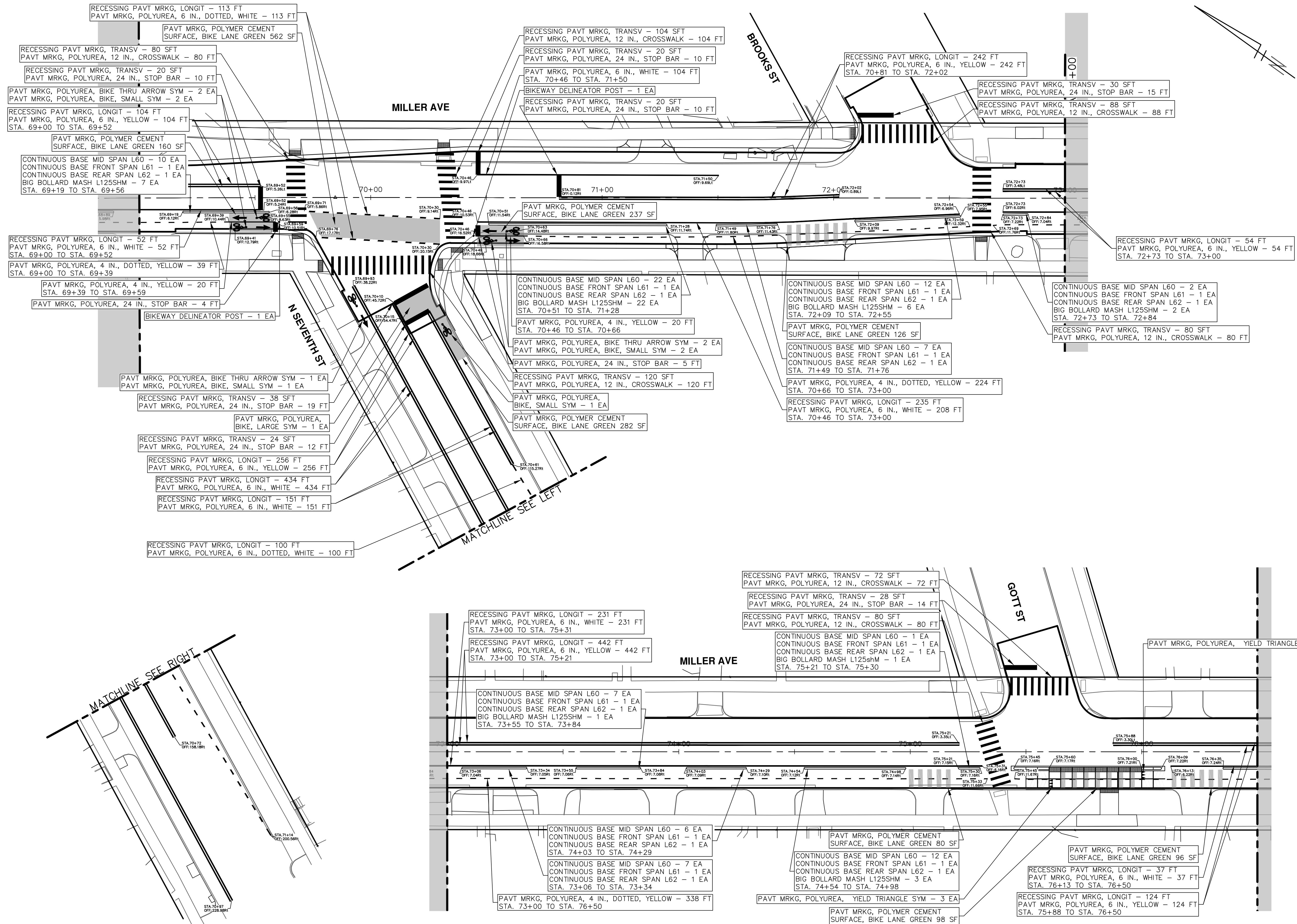


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS
STA. 62+00 - STA. 69+00

SCALE: 1" = 20'
DRAWING No. 2022034-61

SHEET No.

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| NO | REV | DESCRIPTION | DATE | DRAWN | CHECKED |
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| 00 | BID SET | | 4-9-24 | AZD | |

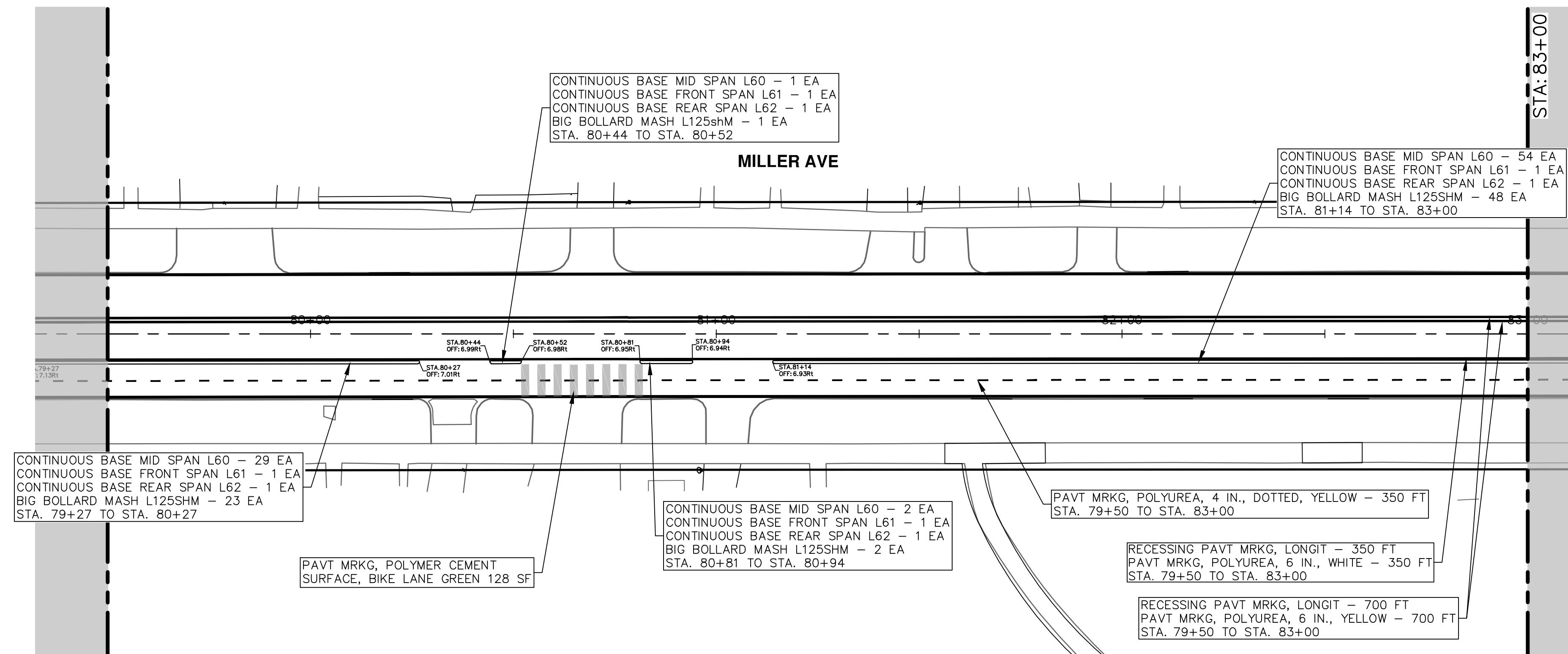
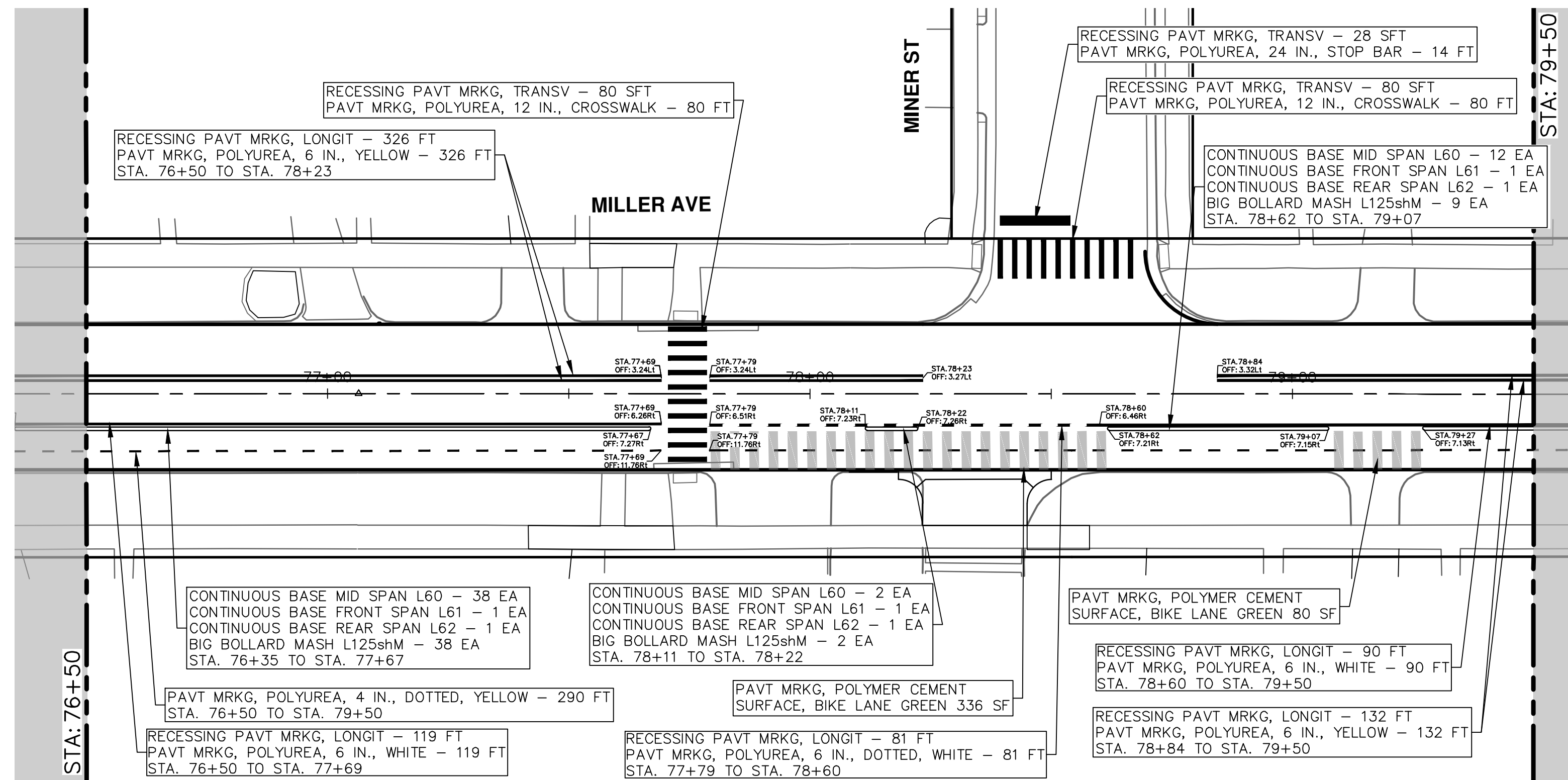
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CITY OF ANN ARBOR - ENGINEERING
MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS

SCALE: 1" = 20'
DRAWING NO. 2022034-62
SHEET NO. 82 OF 130

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

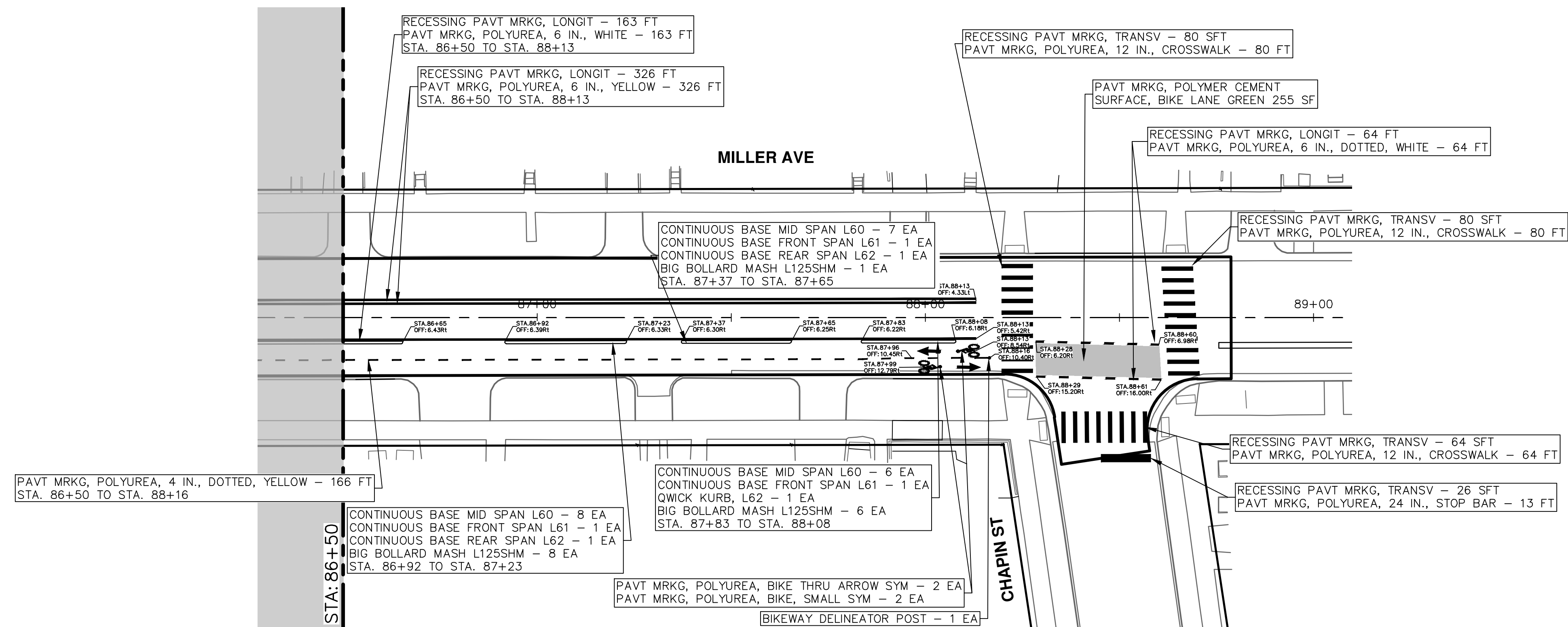
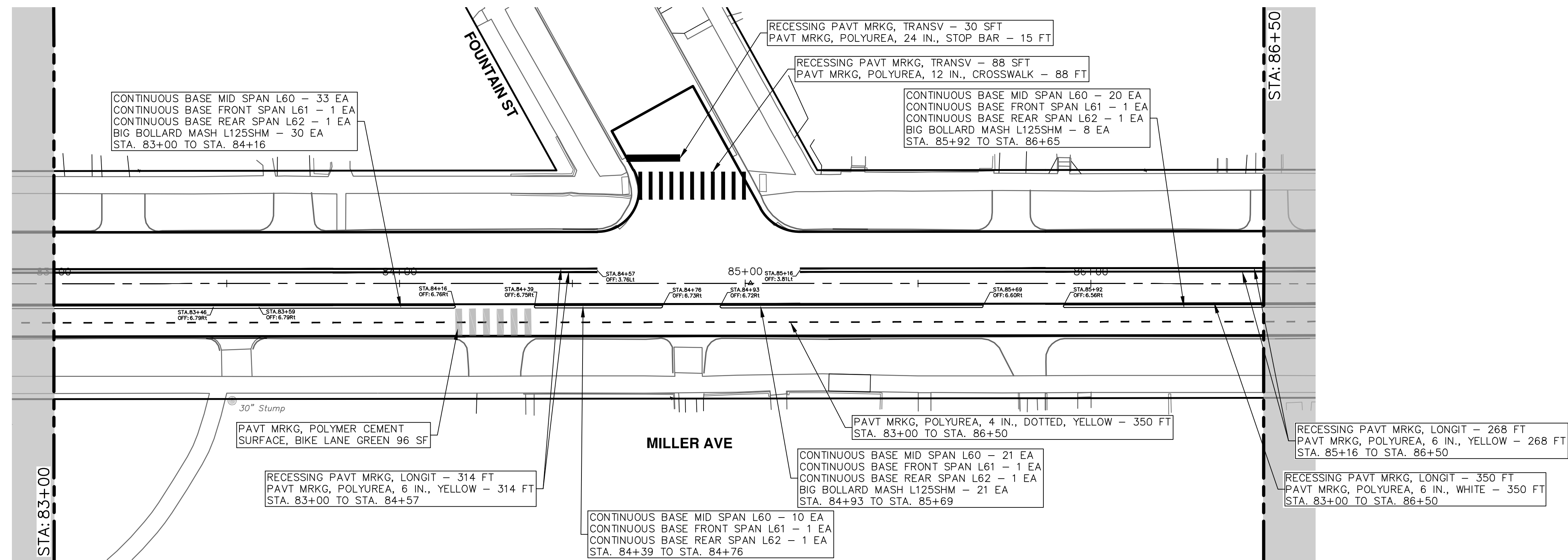
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0667
ANN ARBOR: 734-784-4410
WWW.A2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS
STA. 76+50 - STA. 83+00

SCALE: 1" = 20'
DRAWING No. 2022034-83

R:\2022034_Miller Ave Rehab\Plan Production\2022034Pmk.dwg Dwg Created: 29-Mar-24 - _o2_standard bw.stb - Plot Date: 5-Apr-24



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PAVEMENT MARKINGS

SCALE: 1" = 20'
DRAWING No. 2022034-64



| Point # | REMOVE EXISTING | INSTALL NEW |
|---------|-----------------|--|
| 1 | Y | |
| 2 | Y | LEFT, THRU RIGHT, BIKE (R3-8) |
| 3 | Y | LEFT, THRU RIGHT, BIKE (R3-8) |
| 4 | Y | LEFT, THRU RIGHT, BIKE (R3-8); R10-1B, POST MOUNTED, 24"X24" |
| 5 | N | R10-1B, MAST-ARM MOUNTED, (FACING SB), 24"X24" |
| 6 | Y | LEFT, THRU RIGHT, BIKE (R3-8) |
| 7 | N | R10-1B, POST MOUNTED, 24"X24" |
| 8 | N | R10-1B, MAST-ARM MOUNTED, (FACING WB), 24"X24" |
| 9 | Y | |
| 10 | Y | |
| 11 | N | LEFT, THRU RIGHT (R3-8) |
| 12 | Y | |
| 13 | Y | W16-2A |
| 14 | Y | W16-2P |
| 15 | Y | R2-1 |
| 16 | N | LEFT, THRU RIGHT (R3-8) |
| 17 | Y | |
| 18 | Y | R2-1 |

| SIGN | EA (THIS SHEET) |
|-------------------------------|-----------------|
| R2-1 | 2 |
| LEFT, THRU RIGHT (R3-8) | 2 |
| LEFT, THRU RIGHT, BIKE (R3-8) | 4 |
| R10-1B | 4 |
| W16-2P | 1 |
| W16-2A | 1 |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION


PERMANENT SIGNING

P.O.B. - STA 14+00

SCALE: 1" = 40'


DRAWING No. 2022034-85

SHEET No. 85 OF 130

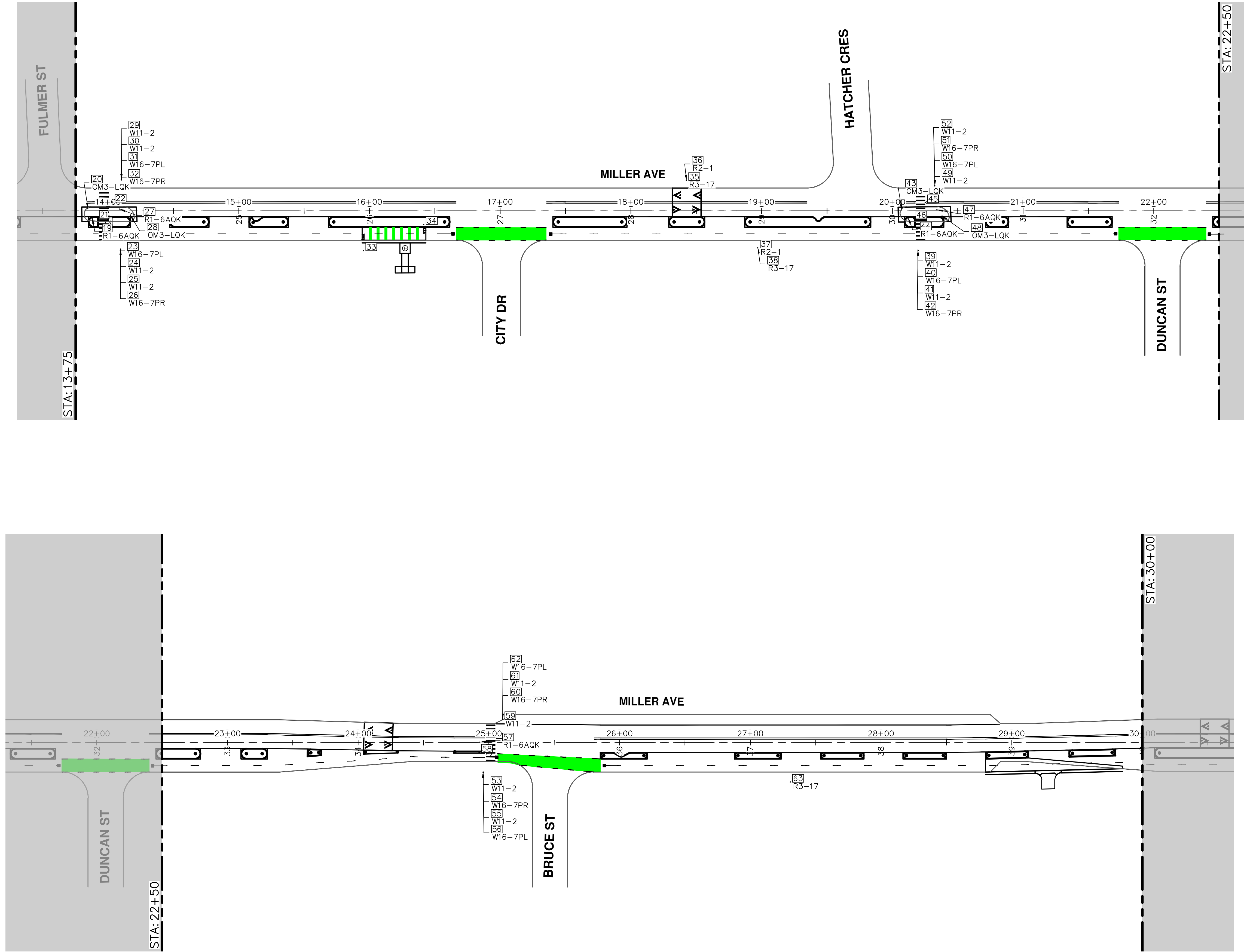


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| DATE | DRAWN | CHECKED |
| 4-9-24 | AZD | JKA |
| DESCRIPTION | | |
| REV. | DD | BID SET |



Know what's below.
Call Before you dig.



| Point # | REMOVE EXISTING | INSTALL NEW |
|---------|-----------------|-----------------------------------|
| 19 | Y | |
| 20 | Y | |
| 21 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 22 | N | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 23 | N | |
| 24 | N | |
| 25 | N | |
| 26 | N | |
| 27 | Y | |
| 28 | Y | |
| 29 | N | |
| 30 | N | |
| 31 | N | |
| 32 | N | |
| 33 | N | R9-6 |
| 34 | N | QWCK KURB SIGN, R9-6, BUFFER |
| 35 | Y | |
| 36 | Y | R2-1 |
| 37 | Y | R2-1 |
| 38 | Y | |
| 39 | N | |
| 40 | N | |
| 41 | N | |
| 42 | N | |
| 43 | Y | |
| 44 | Y | |
| 45 | N | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 46 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 47 | Y | |
| 48 | Y | |
| 49 | N | |
| 50 | N | |
| 51 | N | |
| 52 | N | |
| 53 | N | |
| 54 | N | |
| 55 | N | |
| 56 | N | |
| 57 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 58 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 59 | N | |
| 60 | N | |
| 61 | N | |
| 62 | N | |
| 63 | Y | |

| SIGN | EA (THIS SHEET) |
|-----------------------|-----------------|
| QWCK KURB SIGN, R1-6A | 6 |
| R2-1 | 2 |
| R9-6 | 1 |
| QWCK KURB SIGN, R9-6 | 1 |

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PERMANENT SIGNING
STA. 14+00 - STA. 30+00

SCALE: 1" = 40'
DRAWING No. 2022034-86



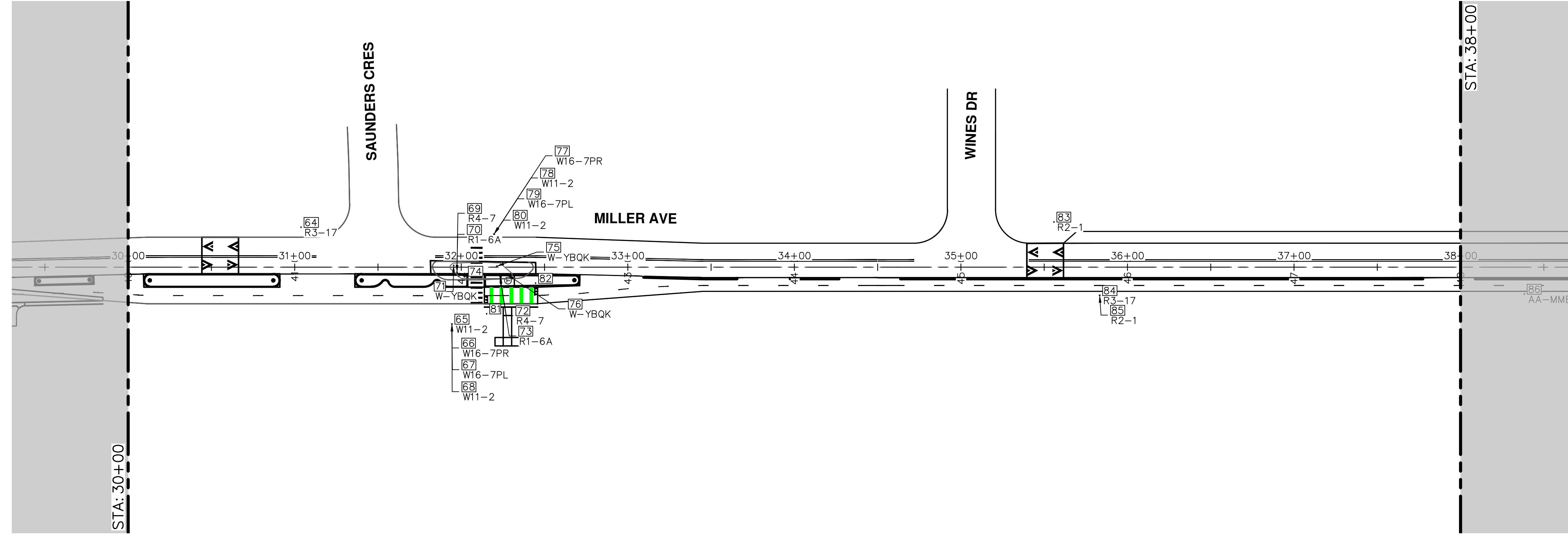
Know what's below.
Call Before you dig.

| DATE | DESCRIPTION | REV. |
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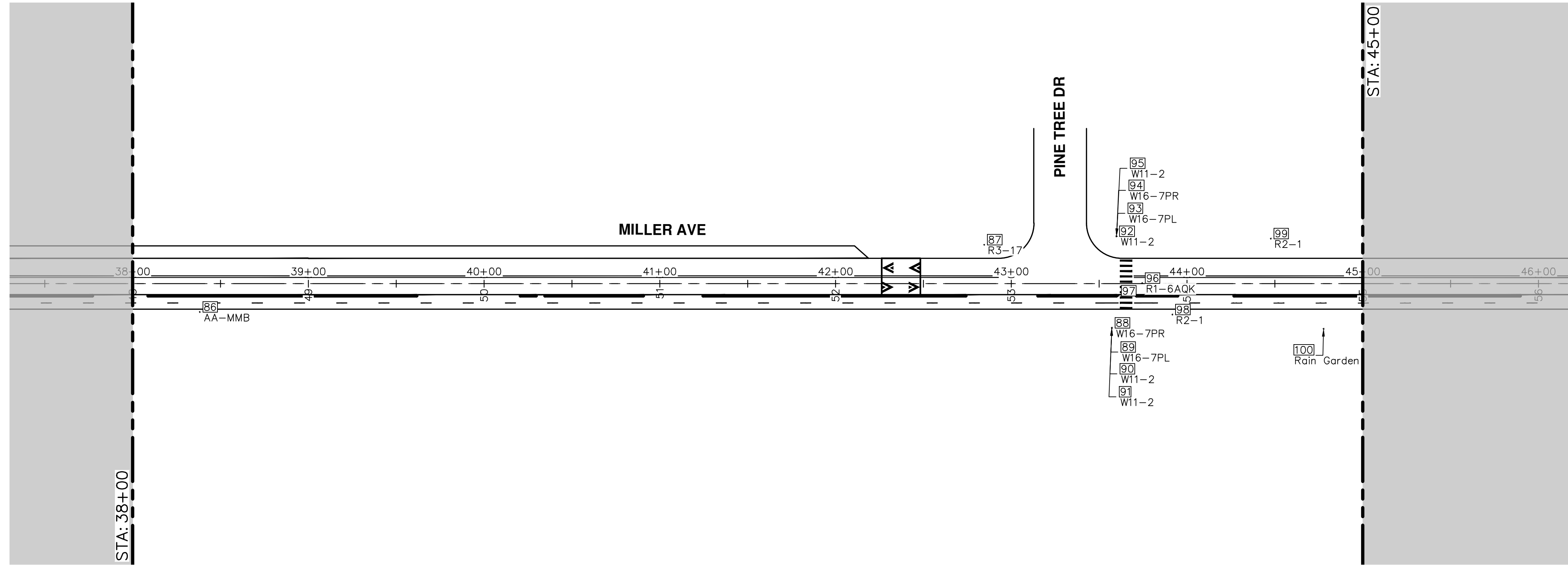
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R:\2022034_Miller_Ave_Rehab\Plan_Production\2022034P3gn.dwg Dwg Created: 5-Apr-24 - _a2_standard bw.stb - Plot Date: 5-Apr-24



| SIGN | EA (THIS SHEET) |
|-----------------------|-----------------|
| QWCK KURB SIGN, R1-6A | 4 |
| R2-1 | 4 |
| R9-6 | 1 |
| QWCK KURB SIGN, R9-6 | 1 |



| Point # | REMOVE EXISTING | INSTALL NEW |
|---------|-----------------|-----------------------------------|
| 64 | Y | |
| 65 | N | |
| 66 | N | |
| 67 | N | |
| 68 | N | |
| 69 | Y | |
| 70 | Y | |
| 71 | Y | |
| 72 | Y | |
| 73 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 74 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 75 | Y | |
| 76 | Y | |
| 77 | N | |
| 78 | N | |
| 79 | N | |
| 80 | N | |
| 81 | N | R9-6 |
| 82 | N | QWCK KURB SIGN, R9-6 |
| 83 | Y | R2-1 |
| 84 | Y | |
| 85 | Y | R2-1 |
| 86 | Y | |
| 87 | Y | |
| 88 | N | |
| 89 | N | |
| 90 | N | |
| 91 | N | |
| 92 | N | |
| 93 | N | |
| 94 | N | |
| 95 | N | |
| 96 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 97 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 98 | Y | R2-1 |
| 99 | Y | R2-1 |
| 100 | Y | |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING


MILLER AVENUE REHABILITATION

PERMANENT SIGNING

STA. 30+00 - STA. 45+00

SCALE: 1" = 40'

DRAWING No. 2022034-87

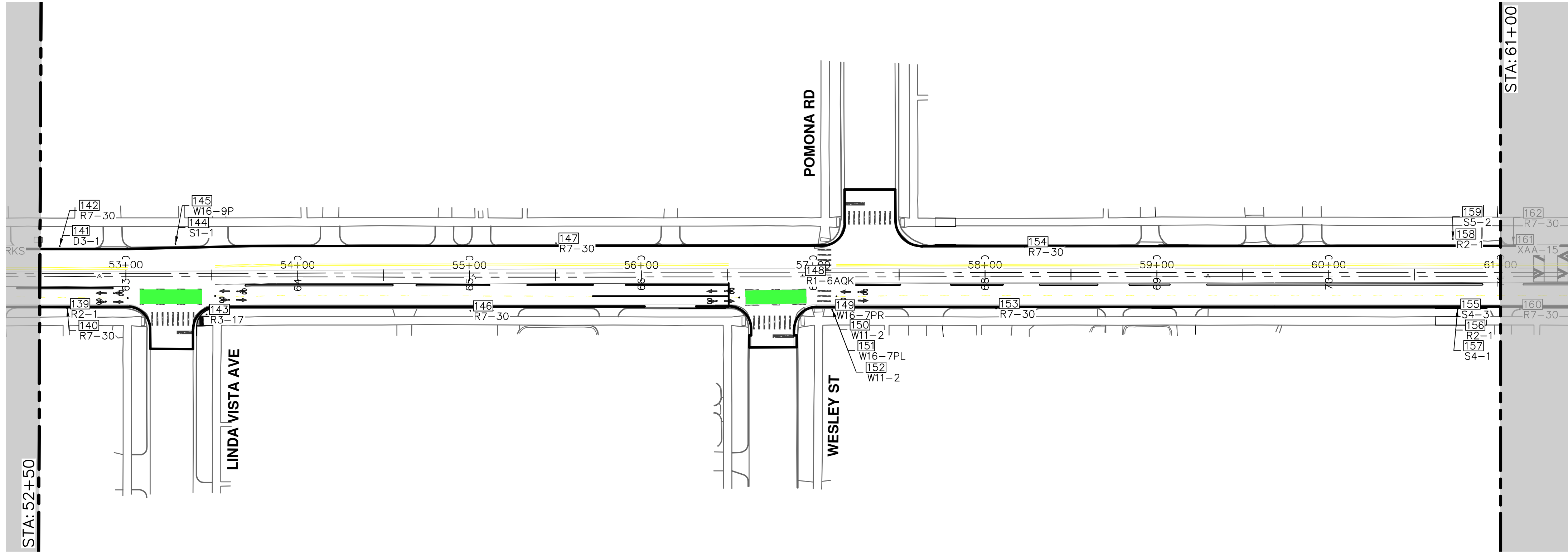
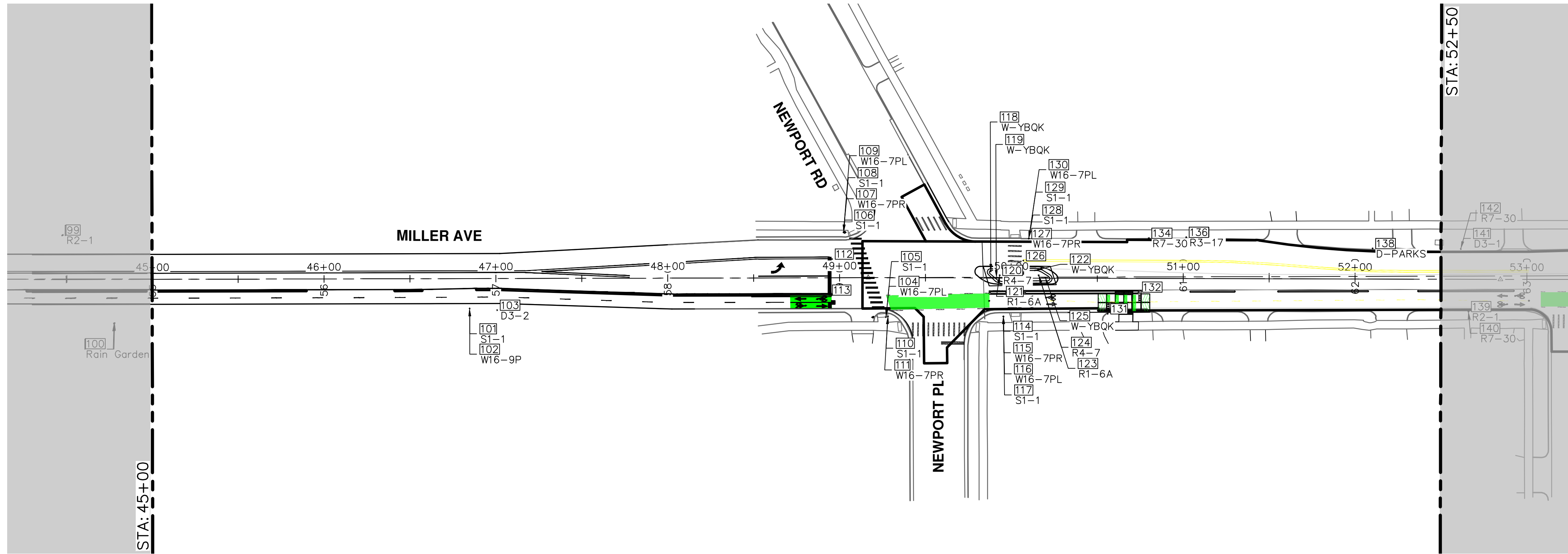


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ANN ARBOR, MI 48106-8647
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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-------------|--------|-------|---------|
| 00 | BID SET | 4-9-24 | AZD | JKA |

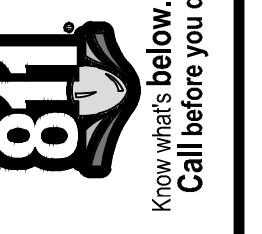
87 OF 130

R:\2022034_Miller_Ave_Rehab\Plan_Production\2022034Psgn.dwg Dwg Created: 5-Apr-24 - _a2_standard bw.stb - Plot Date: 5-Apr-24



| SIGN | EA (THIS SHEET) |
|-----------------------|-----------------|
| QWCK KURB SIGN, R1-6A | 4 |
| R2-1 | 3 |
| R9-6 | 1 |
| QWCK KURB SIGN, R9-6 | 1 |

| Point # | REMOVE EXISTING | INSTALL NEW |
|---------|-----------------|--|
| 01 | Y | |
| 02 | Y | |
| 03 | Y | |
| 04 | N | |
| 05 | N | |
| 06 | N | |
| 07 | N | |
| 08 | N | |
| 09 | N | |
| 10 | N | |
| 11 | N | |
| 12 | N | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 13 | N | QWCK KURB SIGN, R1-6A, BUFFER |
| 14 | N | |
| 15 | N | |
| 16 | N | |
| 17 | N | |
| 18 | Y | |
| 19 | Y | |
| 20 | Y | |
| 21 | Y | |
| 22 | Y | |
| 23 | Y | |
| 24 | Y | |
| 25 | Y | |
| 26 | N | QWCK KURB SIGN, R1-6A, IN NEWHARDENED CENTERLINE |
| 27 | N | |
| 28 | N | |
| 29 | N | |
| 30 | N | |
| 31 | N | R9-6 |
| 32 | N | QWCK KURB SIGN, R9-6, BUFFER |
| 33 | Y | |
| 34 | Y | |
| 35 | Y | |
| 36 | Y | |
| 37 | Y | |
| 38 | Y | |
| 39 | Y | R2-1 |
| 40 | Y | |
| 41 | Y | |
| 42 | Y | |
| 43 | Y | |
| 44 | Y | |
| 45 | Y | |
| 46 | Y | |
| 47 | Y | |
| 48 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 49 | N | |
| 50 | N | |
| 51 | N | |
| 52 | N | |
| 53 | Y | |
| 54 | Y | |
| 55 | Y | |
| 56 | Y | R2-1 |
| 57 | Y | |
| 58 | Y | R2-1 |
| 59 | Y | |



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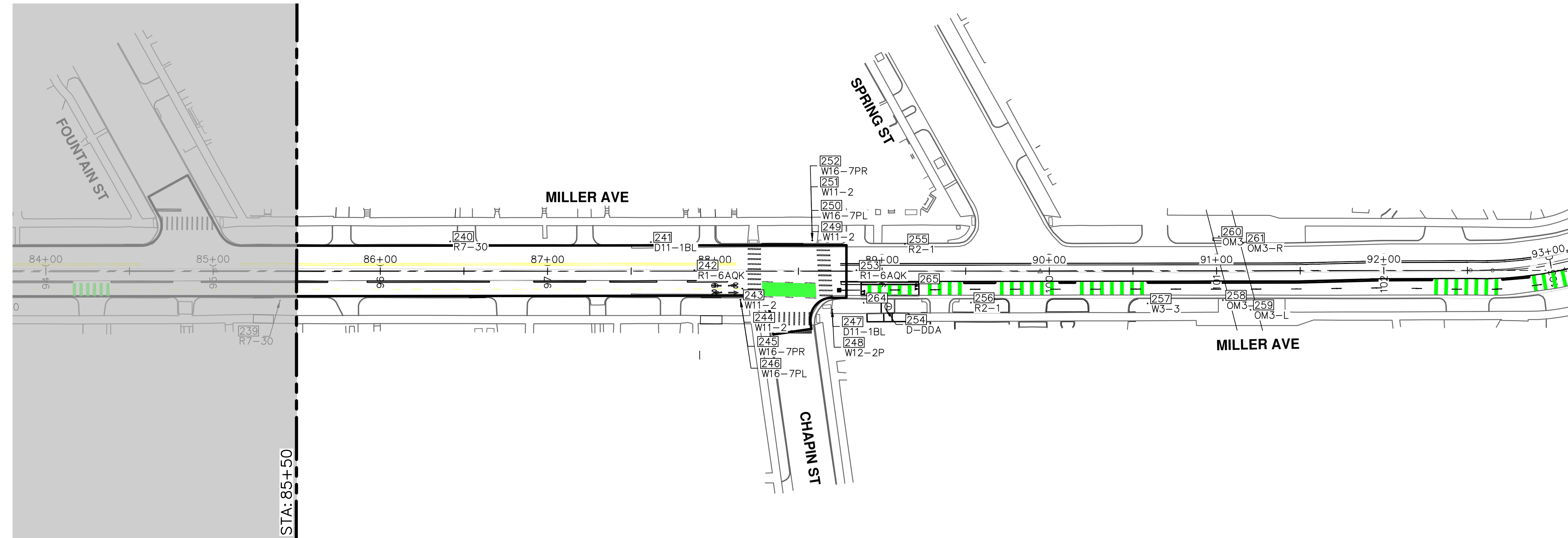
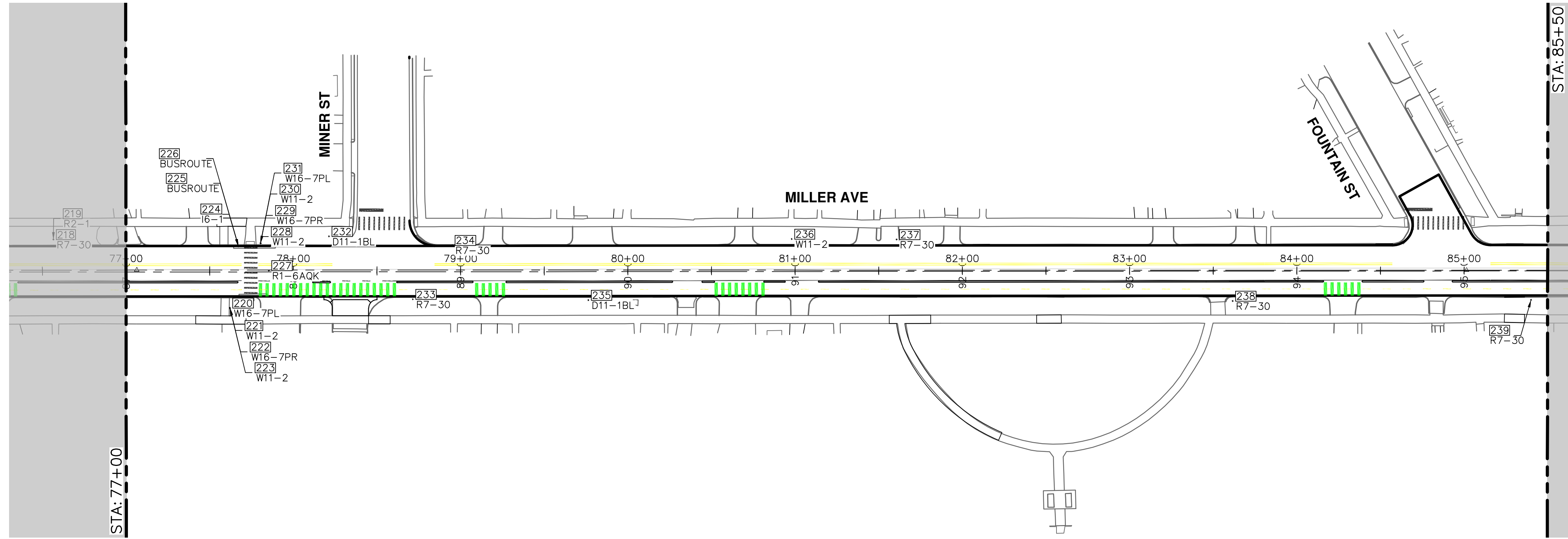


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER AVENUE REHABILITATION
PERMANENT SIGNING

SCALE: 1" = 40'
DRAWING No. 2022034-88

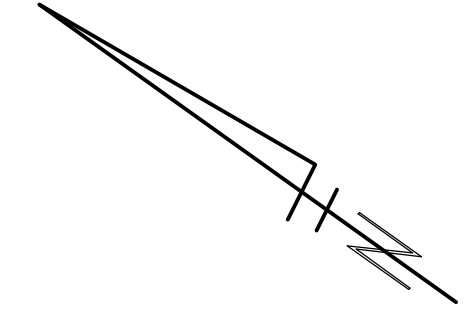
STA 45+00 - STA. 61+00

R:\2022034_Miller_Ave_Rehab\Plan_Production\2022034P_Sgn.dwg Dwg Created: 5-Apr-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



| Point # | REMOVE EXISTING | INSTALL NEW |
|---------|-----------------|-----------------------------------|
| 220 | Y | W6-7PL |
| 221 | Y | W11-2 |
| 222 | Y | W6-7PR |
| 223 | Y | W11-2 |
| 224 | Y | |
| 225 | Y | |
| 226 | Y | |
| 227 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 228 | Y | W11-2 |
| 229 | Y | W6-7PR |
| 230 | Y | W11-2 |
| 231 | Y | W6-7PL |
| 232 | Y | |
| 233 | Y | |
| 234 | Y | |
| 235 | Y | |
| 236 | Y | |
| 237 | Y | |
| 238 | Y | |
| 239 | Y | |
| 240 | Y | |
| 241 | Y | |
| 242 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 243 | Y | W11-2 |
| 244 | Y | W11-2 |
| 245 | Y | W6-7PR |
| 246 | Y | W6-7PL |
| 247 | Y | |
| 248 | Y | W2-2P |
| 249 | Y | W11-2 |
| 250 | Y | W6-7PL |
| 251 | Y | W11-2 |
| 252 | Y | W6-7PR |
| 253 | Y | QWCK KURB SIGN, R1-6A, CENTERLINE |
| 254 | N | |
| 255 | Y | R2-1 |
| 256 | Y | R2-1 |
| 264 | N | R9-6 |
| 265 | N | QWCK KURB SIGN, R9-6, BUFFER |
| 257 | Y | W3-3 |
| 258 | Y | OM3-R |
| 259 | Y | OM3-L |
| 260 | Y | OM3-L |
| 261 | Y | OM3-R |

| SIGN | EA (THIS SHEET) |
|-----------------------|-----------------|
| OM3-L | 2 |
| OM3-R | 2 |
| QWCK KURB SIGN, R1-6A | 3 |
| R2-1 | 2 |
| R9-6 | 1 |
| QWCK KURB SIGN, R9-6 | 1 |
| W3-3 | 1 |
| W11-2 | 8 |
| W2-2P | 1 |
| W6-7PL | 4 |
| W6-7PR | 4 |




CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER AVENUE REHABILITATION

PERMANENT SIGNING

STA. 77+00 - P.O.E.



CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
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811
Know what's below.
Call Before you dig.

SHEET No. 90 OF 130

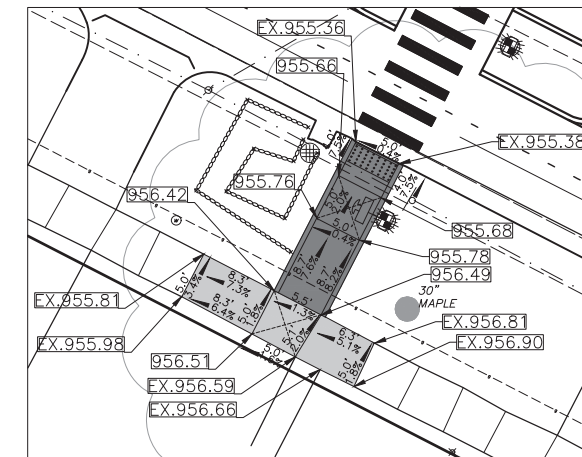
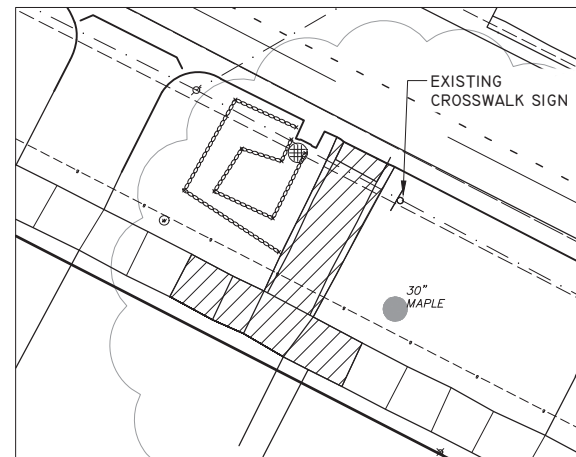
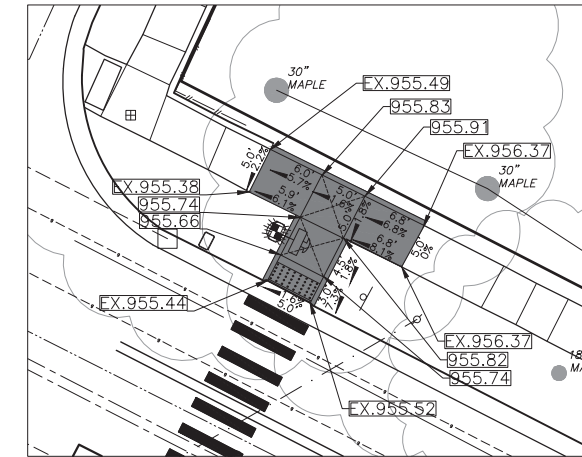
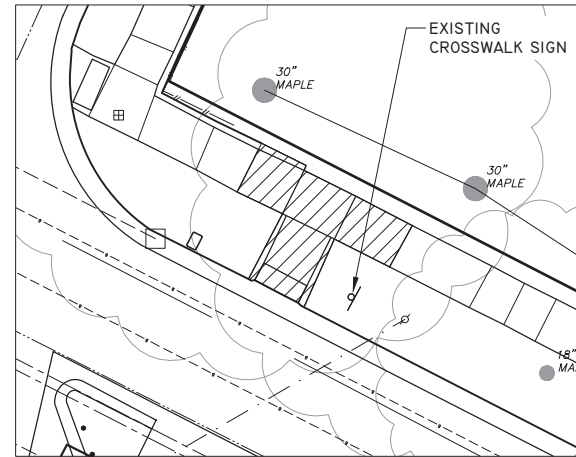
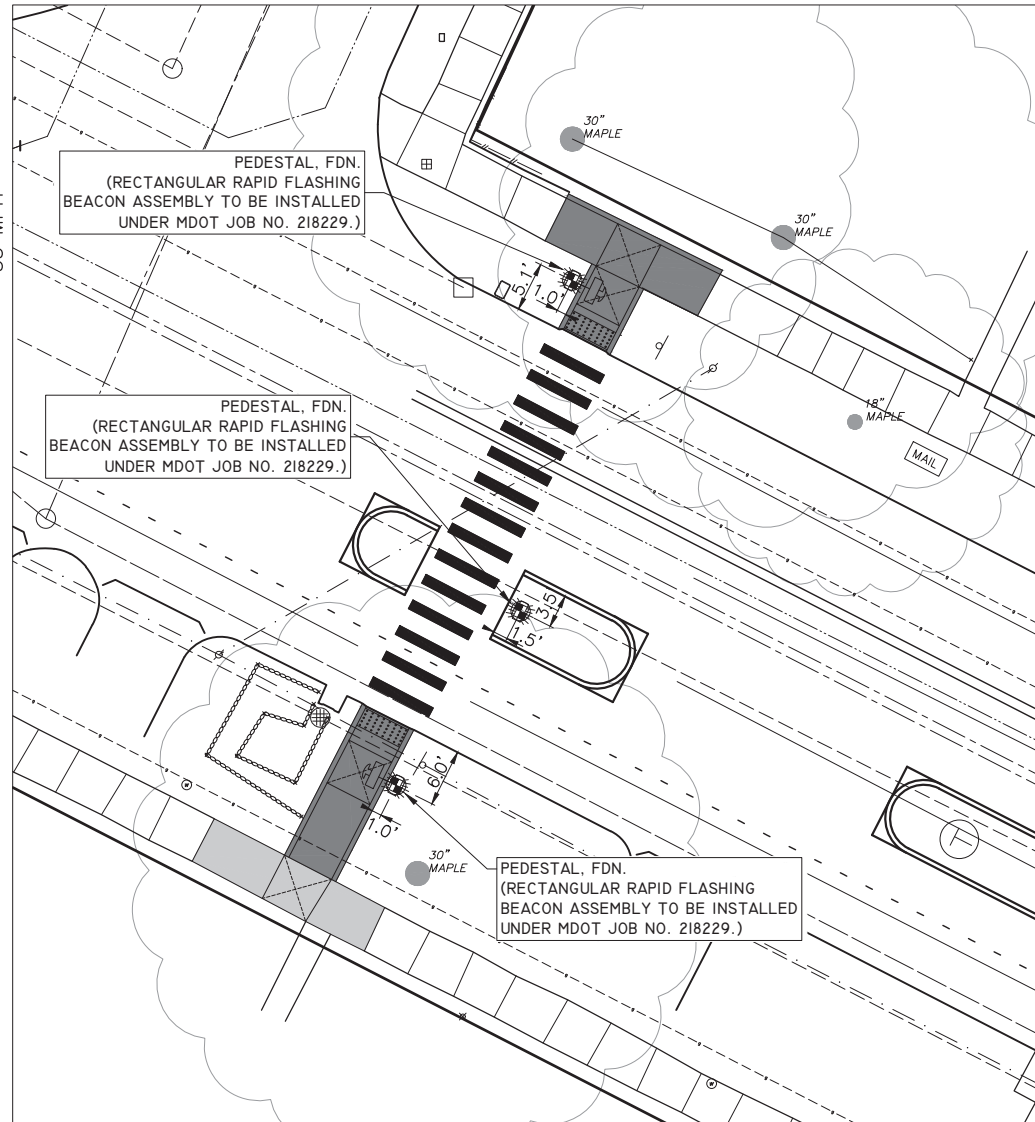
SCALE: 1" = 40'

DRAWING No. 2022034-90

| REV. | DATE | DESCRIPTION | BY | CHECKED |
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| | | | AZD | DRAWN |
| | | | JKA | CHECKED |

FULMER ST
50' R.O.W.
25 MPH

MILLER AVE
83' R.O.W.
35 MPH



BENCHMARK AND CONTROL POINT INFORMATION:

BENCHMARK 208
ELEVATION = 955.43
TOP OF ARROW ON HYDRANT AT NORTHWEST INTERSECTION
CORNER OF MILLER AVENUE AND FULMER STREET.

BENCHMARK 211
ELEVATION = 954.99
SOUTHEAST CORNER OF CATCH BASIN RIM LOCATED AT
SOUTHEAST QUADRANT OF FULMER STREET & MILLER AVENUE,
17' +/- NORTH FROM CENTERLINE MILLER AVENUE, 32' +/- EAST
FROM CENTERLINE FULMER STREET.

CONTROL POINT 117
NORTHING = 289660.641/EASTING = 13282821.500
ELEVATION = 957.05
SET BAR WITH CAP 5 FEET NORTH OF 30 INCH MAPLE TREE, 8
FEET SOUTH OF SOUTH BACK OF CURB FOR MILLER AVENUE, 37
FEET EAST OF CENTERLINE DRIVEWAY #2235.

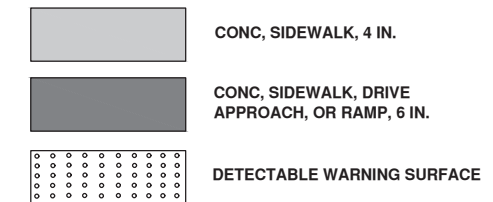
CONTROL POINT 118
NORTHING = 289719.857/EASTING = 13282829.070
ELEVATION = 988.41
SET BAR WITH CAP 4 FEET NORTH OF NORTH BACK OF CURB
FOR MILLER AVENUE, 36 FEET EAST OF CENTERLINE FULMER
STREET, 15 FEET SOUTH OF 30 INCH MAPLE TREE.

CONTROL POINT 119
NORTHING = 289748.556/EASTING = 13282775.380
ELEVATION = 953.26
SET BAR WITH CAP AT NORTHWEST INTERSECTION CORNER OF
MILLER AVENUE AND FULMER STREET, 4 FEET NORTH OF
NORTH BACK OF CURB FOR MILLER, 6 FEET EAST OF HYDRANT.

MILLER AVE @ FULMER ST - REMOVALS



MILLER AVE @ FULMER ST - GRADING DETAILS

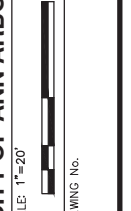


| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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MILLER ROAD CYCLE TRACK
RRFB CROSSING - DETAIL GRADES
MILLER AVE @ FULMER ST

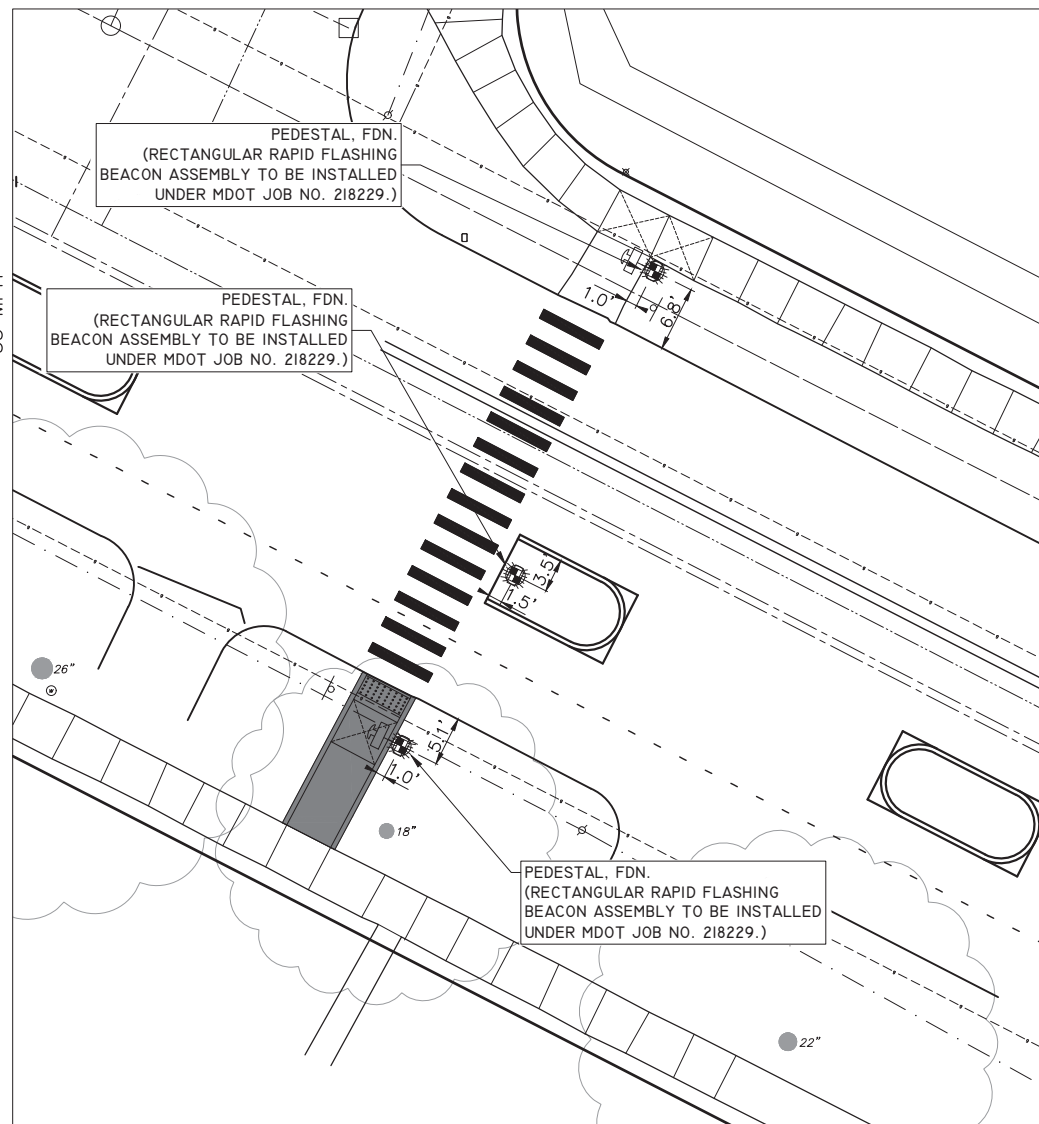


SHEET No. _____
DRAWING No. _____

HATCHER CRESCENT

60' R.O.W.
25 MPH

MILLER AVE
83' R.O.W.
35 MPH



MILLER AVE @ HATCHER CRESCENT - RRFB

BENCHMARK AND CONTROL POINT INFORMATION:

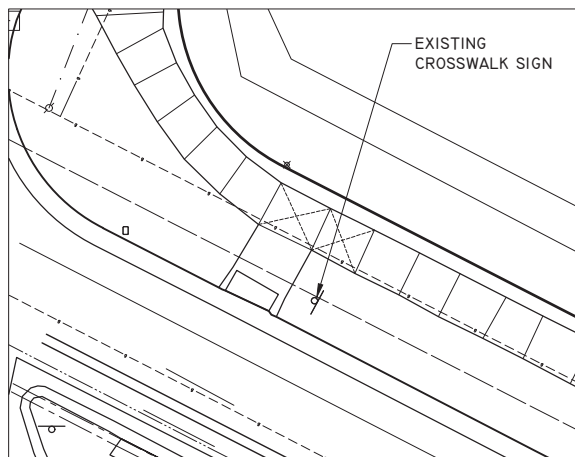
BENCHMARK 200
ELEVATION = 970.44
TOP OF RAILROAD SPIKE IN SOUTHWEST FACE OF LIGHT POLE ON THE NORTHEAST INTERSECTION CORNER OF MILLER AVENUE AND HATCHER CRESCENT.

BENCHMARK 210
ELEVATION = 971.61
ARROW ON TOP OF HYDRANT LOCATED AT THE NORTHWEST QUADRANT OF MILLER AVENUE AND HATCHER CRESCENT.

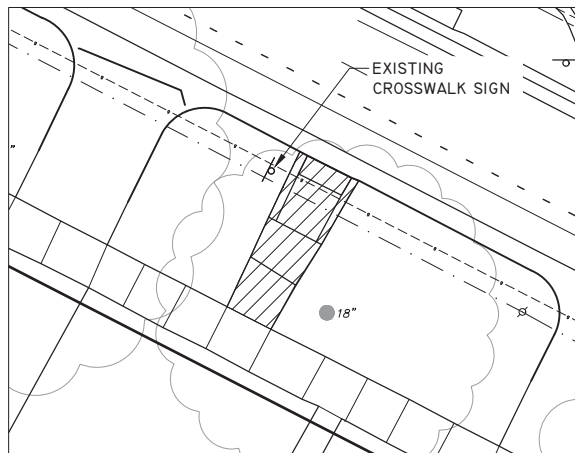
CONTROL POINT 100
NORTHING = 289438.758/EASTING = 13283381.310
ELEVATION = 969.61
SET BAR WITH CAP 6 FEET NORTH OF BACK OF CURB MILLER AVENUE, 12 FEET EAST OF UTILITY POLE AT NORTHEAST INTERSECTION CORNER OF MILLER AVENUE AND HATCHER CRESCENT, 50 FEET SOUTH SOUTHEAST OF 18 INCH MAPLE TREE THAT IS 75 FEET NORTH OF MILLER AVENUE ON THE EAST SIDE OF HATCHER CRESCENT.

CONTROL POINT 101
NORTHING = 289467.753/EASTING = 13283324.540
ELEVATION = 969.62
SET BAR WITH CAP AT NORTHWEST INTERSECTION CORNER OF MILLER AVENUE AND HATCHER CRESCENT, 12 FEET EAST OF FIRE HYDRANT, 55 FEET SOUTH OF 3 INCH DECORATIVE TREE ON WEST SIDE OF HATCHER CRESCENT NORTH OF MILLER AVENUE, 30 FEET NORTHWEST OF CENTER OF INTERSECTION.

CONTROL POINT 102
NORTHING = 289400.881/EASTING = 13283336.770
ELEVATION = 969.56
SET BAR WITH CAP 4 FEET SOUTH SOUTH BACK OF CURB ON MILLER AVENUE, 12 FEET NORTHWEST OF 26 INCH MAPLE TREE, 17 FEET WEST OF CENTERLINE DRIVEWAY #2045.



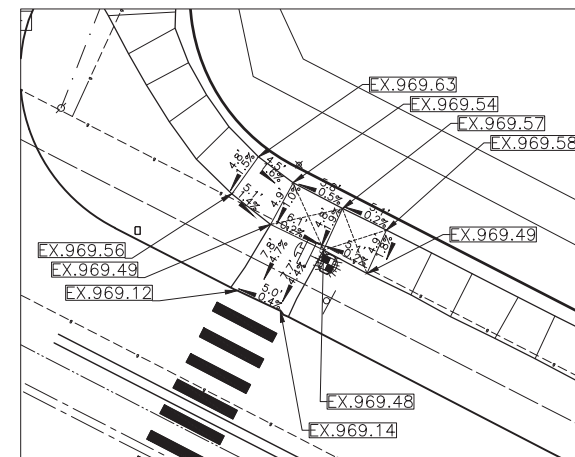
NORTH SIDE OF MILLER AVE



SOUTH SIDE OF MILLER AVE

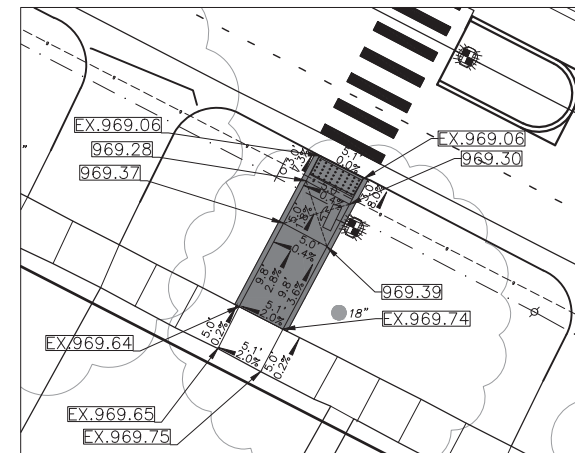
MILLER AVE @ HATCHER CRESCENT - REMOVALS

SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM



NORTH SIDE OF MILLER AVE

DETAILED GRADES SHOWN FOR INFORMATION ONLY.
NO SIDEWALK WORK BEING DONE HERE.



SOUTH SIDE OF MILLER AVE

MILLER AVE @ HATCHER CRESCENT - GRADING DETAILS

CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.

DETECTABLE WARNING SURFACE



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RRFB CROSSING - DETAIL GRADES
MILLER AVE @ HATCHER CRESCENT

SCALE: 1"=20'
DRAWING No.

SHEET No.

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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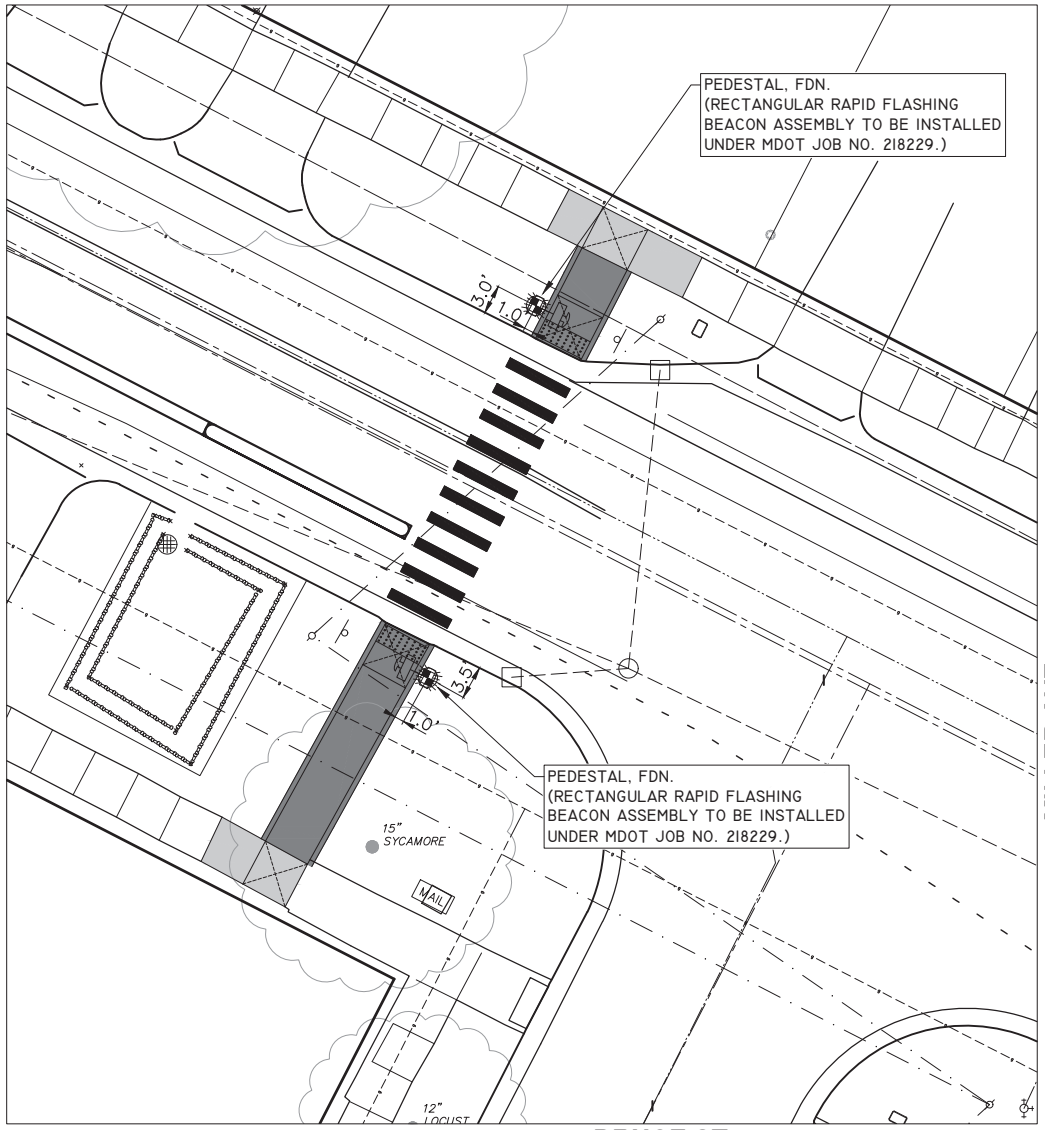
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
RRFB CROSSING - DETAIL GRADES
MILLER AVE @ BRUCE ST

SCALE: 1"=20'
DRAWING No.
SHEET No.

MILLER AVE
83' R.O.W.
35 MPH



MILLER AVE @ BRUCE ST - RRFB BRUCE ST
60' R.O.W.
25 MPH

BENCHMARK AND CONTROL POINT INFORMATION:

BENCHMARK 201
ELEVATION = 963.61
TOP OF ARROW ON HYDRANT AT SOUTHEAST INTERSECTION CORNER OF MILLER AVENUE AND BRUCE STREET.

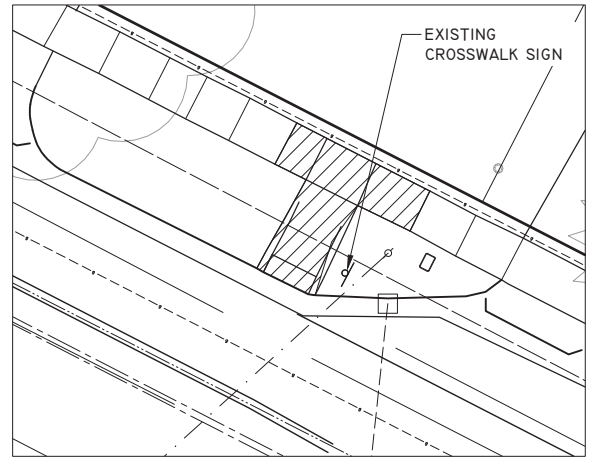
BENCHMARK 209
ELEVATION = 962.53
SOUTHEAST CORNER OF CATCH BASIN RIM LOCATED AT THE SOUTHWEST QUADRANT OF MILLER AVENUE AND BRUCE STREET, SOUTH SIDE MILLER AVENUE, 15 FEET ± SOUTHWEST FROM CENTERLINE MILLER AVENUE, 37 FEET ± NORTHWEST FROM CENTERLINE BRUCE STREET.

CONTROL POINT 103
NORTHING = 288160.657/EASTING = 13283816.54
ELEVATION = 963.05
SET BAR WITH CAP ON SOUTHWEST INTERSECTION CORNER OF MILLER AVENUE AND BRUCE STREET, 8 FEET SOUTHEAST OF ROAD CATCH BASIN ON SOUTH SIDE OF MILLER AVENUE JUST WEST OF BRUCE STREET, 20 FEET NORTHEAST OF 18 INCH SYCAMORE, TREE 20 FEET NORTH OF US POST OFFICE MAILBOX.

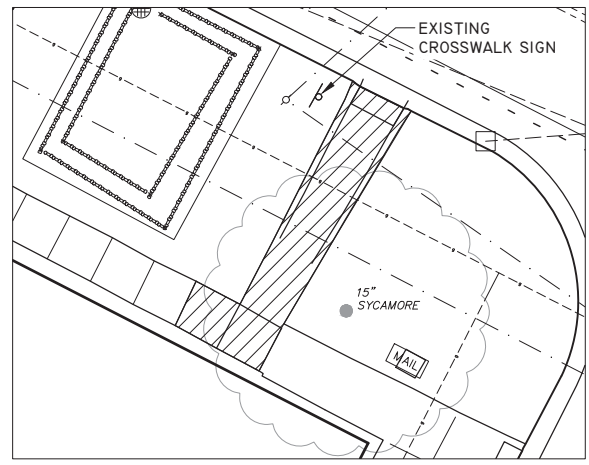
CONTROL POINT 104
NORTHING = 289121.629/EASTING = 13283859.300
ELEVATION = 961.86
SET BAR WITH CAP ON SOUTHEAST INTERSECTION OF MILLER AVENUE AND BRUCE STREET, 5 FEET NORTH OF BACK OF WALK FOR SOUTH SIDE OF MILLER AVENUE SOUTHWEST OF HYDRANT AT THE SOUTHEAST CORNER OF MILLER AVENUE AND BRUCE STREET, 10 FEET NORTHWEST OF TELEPHONE MANHOLE.

CONTROL POINT 105
NORTHING = 289204.007/EASTING = 13283836.520
ELEVATION = 962.62
SET BAR WITH CAP IN GRASS BETWEEN BACK OF CURB AND SIDEWALK ON THE NORTH SIDE OF MILLER AVENUE, 10 FEET WEST OF CENTER OF DRIVE OF #1950, 2 FEET EAST OF FIBER OPTIC BOX AND 37 FEET NORTHWEST OF CENTER OF INTERSECTION FOR MILLER AVENUE AND BRUCE STREET.

MILLER AVE
83' R.O.W.
35 MPH

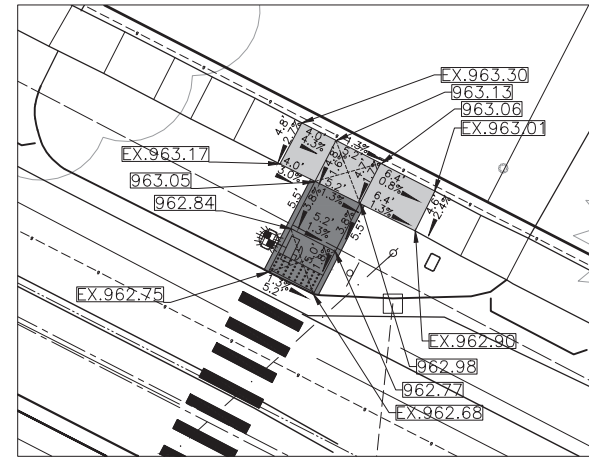


NORTH SIDE OF MILLER AVE

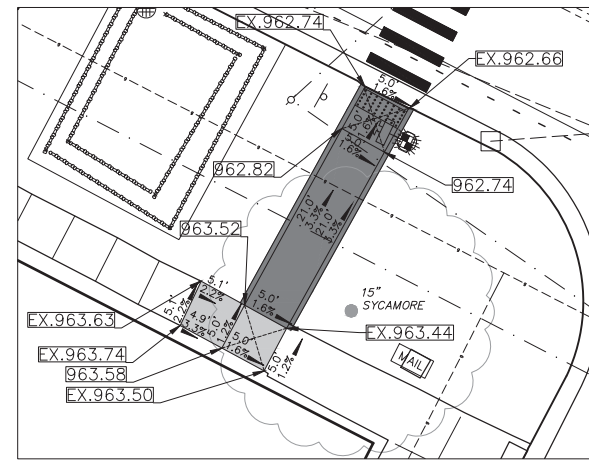


SOUTH SIDE OF MILLER AVE

MILLER AVE @ BRUCE ST - REMOVALS

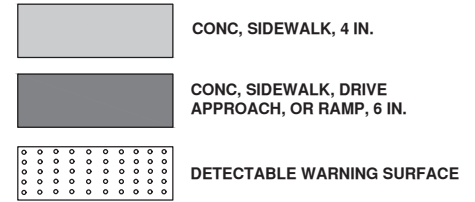


NORTH SIDE OF MILLER AVE



SOUTH SIDE OF MILLER AVE

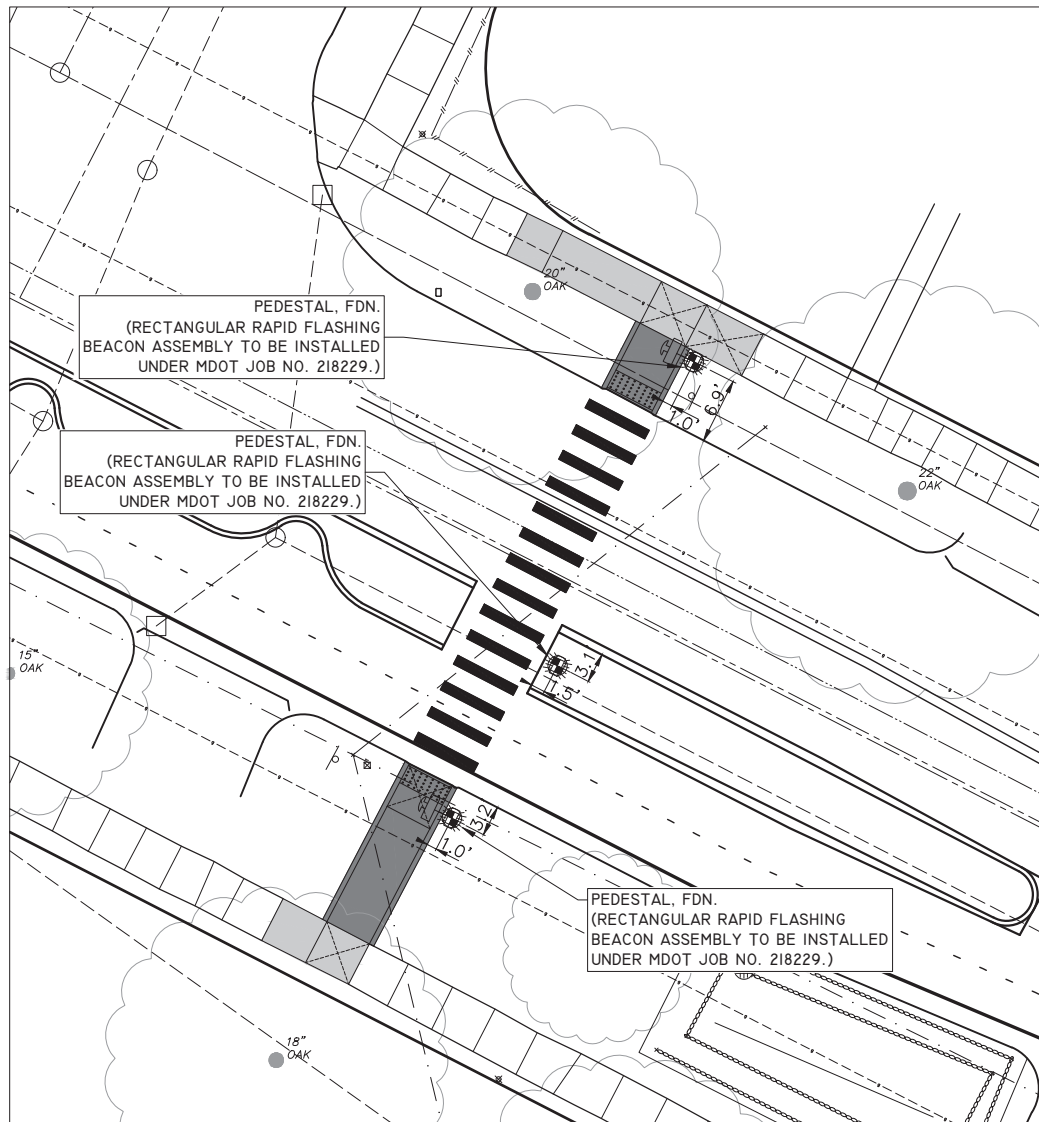
MILLER AVE @ BRUCE ST - GRADING DETAILS



SAUNDERS CRESCENT

60' R.O.W.
25 MPH

MILLER AVE
83' R.O.W.
35 MPH



MILLER AVE @ SAUNDERS CRESCENT - RRFB

BENCHMARK AND CONTROL POINT INFORMATION:

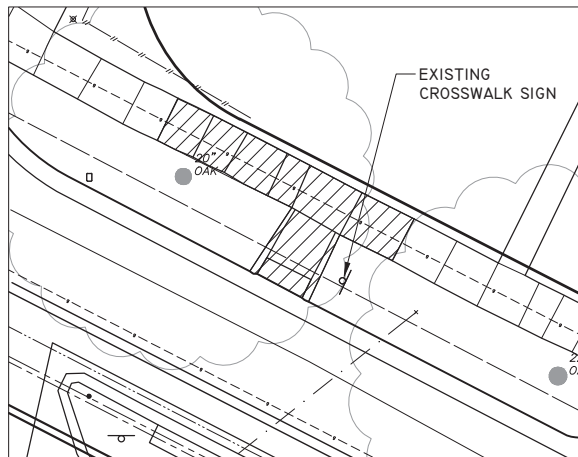
BENCHMARK 202
ELEVATION = 949.70
TOP OF ARROW ON HYDRANT AT NORTHWEST CORNER OF MILLER AVENUE AND SAUNDERS CRESCENT.

BENCHMARK 203
ELEVATION = 948.13
TOP OF RAILROAD SPIKE IN NORTH FACE OF UTILITY POLE ON SOUTH SIDE OF MILLER AVENUE OPPOSITE 10 FEET WEST OF CENTERLINE SAUNDERS CRESCENT.

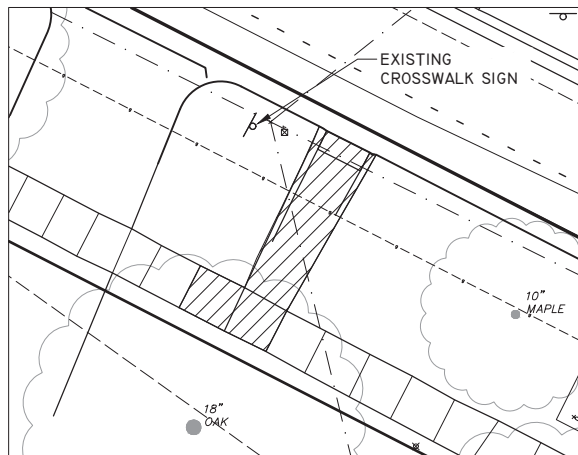
CONTROL POINT 106
NORTHING = 288929.449/EASTING = 13284370.950
ELEVATION = 947.24
SET BAR WITH CAP 4 FEET NORTH OF BACK OF CURB FOR NORTH SIDE OF MILLER AVENUE, 10 FEET EAST OF HYDRANT AT NORTHWEST CORNER OF MILLER AVENUE AND SAUNDERS CRESCENT, 45 FEET SOUTH SOUTHWEST UTILITY POLE AT NORTHWEST INTERSECTION CORNER MILLER AVENUE AND SAUNDERS CRESCENT.

CONTROL POINT 107
NORTHING = 288855.704/EASTING = 13284394.000
ELEVATION = 945.89
SET BAR WITH CAP 6 FEET SOUTH BACK OF CURB ON SOUTH SIDE OF MILLER AVENUE, 12 FEET WEST OF CENTERLINE DRIVEWAY #1797, 7 FEET NORTHEAST OF 15\"/>

CONTROL POINT 108
NORTHING = 288901.187/EASTING = 13284451.720
ELEVATION = 945.49
SET BAR WITH CAP 4 FEET NORTH OF BACK OF SIDEWALK FOR NORTH SIDE OF MILLER AVENUE, 27 FEET EAST OF BACK OF SIDEWALK, EAST SIDE OF SAUNDERS.

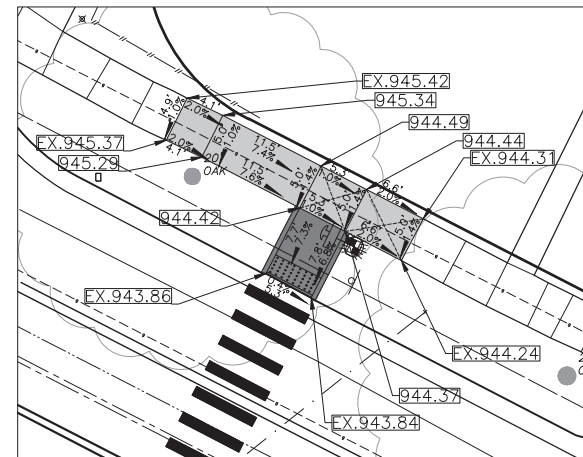


NORTH SIDE OF MILLER AVE

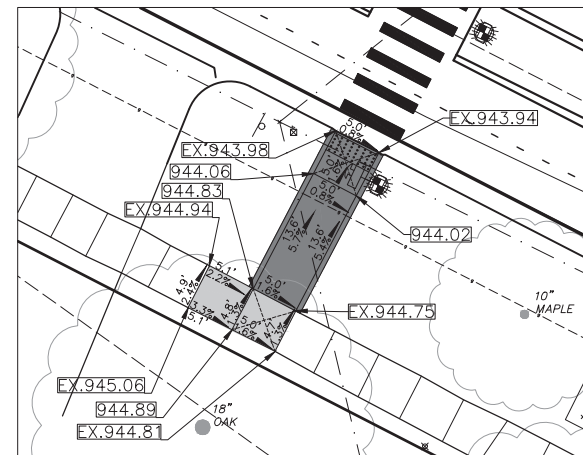


SOUTH SIDE OF MILLER AVE

MILLER AVE @ SAUNDERS CRESCENT - REMOVALS

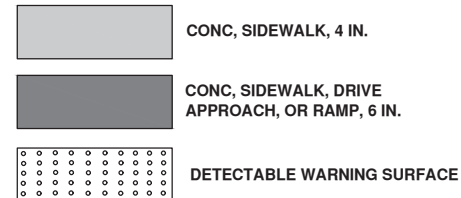


NORTH SIDE OF MILLER AVE



SOUTH SIDE OF MILLER AVE

MILLER AVE @ SAUNDERS CRESCENT - GRADING DETAILS



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RRFB CROSSING - DETAIL GRADES
MILLER AVE @ SAUNDERS CRESCENT

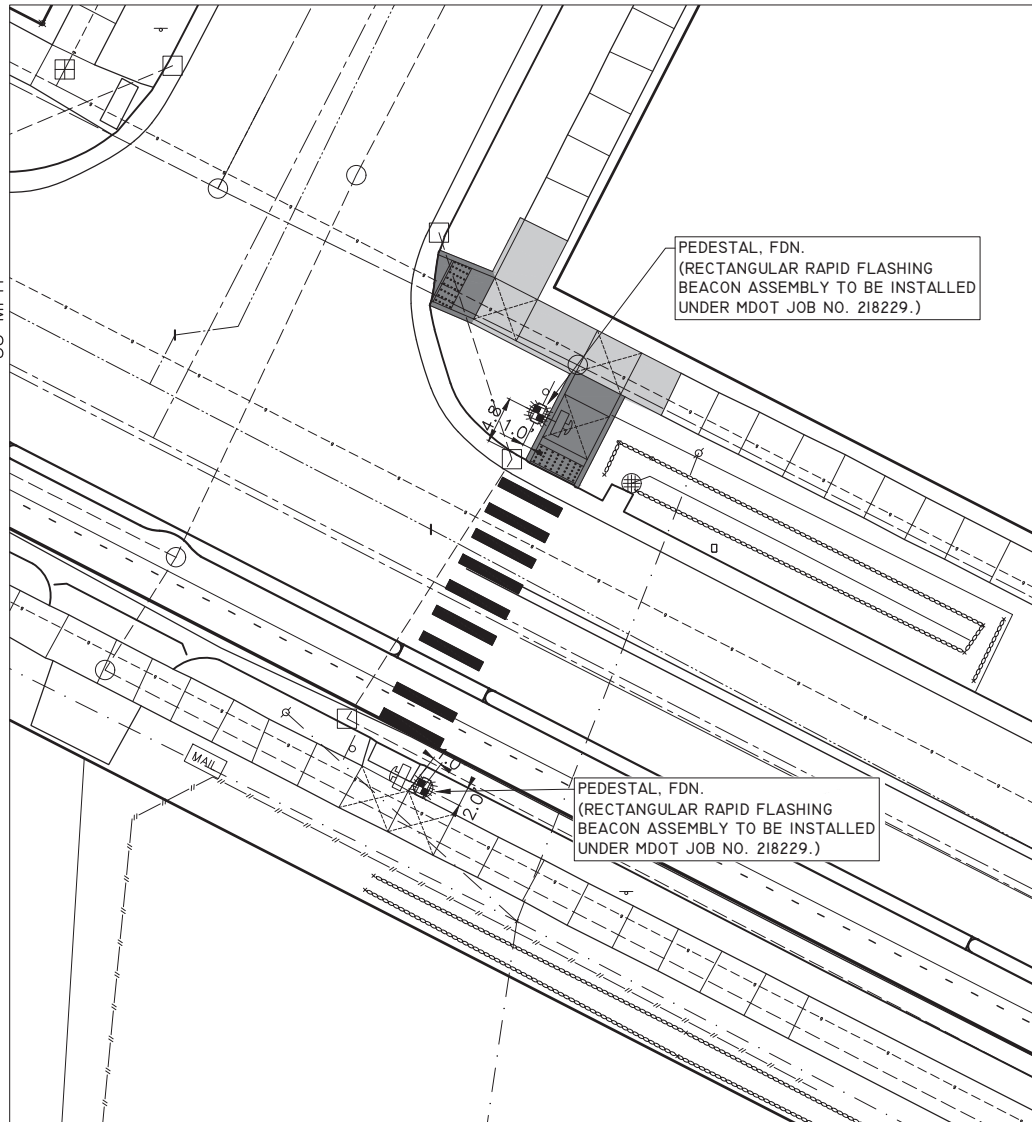
SCALE: 1"=20'
DRAWING No.

SHEET No.

PINE TREE DR

60' R.O.W.
25 MPH

MILLER AVE
66' R.O.W.
35 MPH



MILLER AVE @ PINE TREE DR - RRFB

BENCHMARK AND CONTROL POINT INFORMATION:

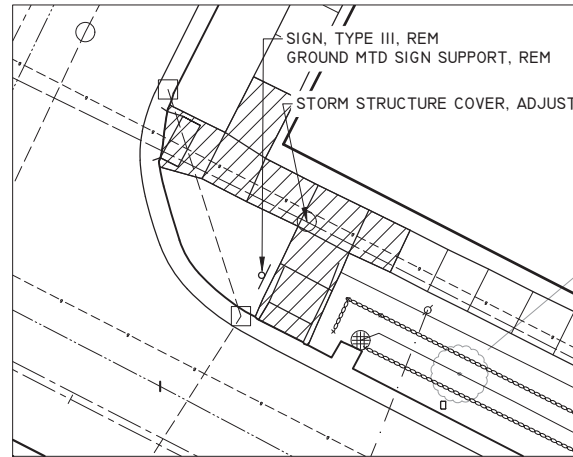
BENCHMARK 204
ELEVATION = 920.03
TOP OF ARROW ON HYDRANT AT NORTHWEST INTERSECTION CORNER OF PINE TREE DRIVE AND MILLER AVENUE.

BENCHMARK 205
ELEVATION = 914.87
NORTHWEST CORNER OF CATCH BASIN RIM LOCATED ON THE SOUTH SIDE OF MILLER AVENUE, 15' +/- SOUTH FROM CENTERLINE MILLER AVENUE, 33' +/- EAST FROM CENTERLINE PINE TREE STREET.

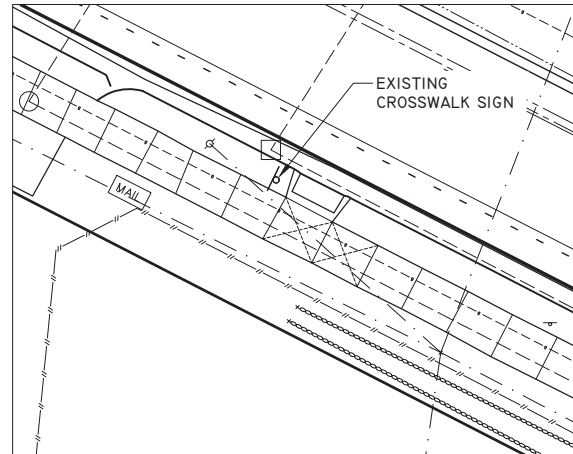
CONTROL POINT 110
NORTHING = 288362.318/EASTING = 13285473.570
ELEVATION = 915.36
SET BAR WITH CAP 33 FEET EAST OF CENTERLINE FOR PINE TREE DRIVE, 9 FEET NORTH NORTHWEST OF ROAD CATCH BASIN AT NORTHEAST CORNER OF PINE TREE DRIVE AND MILLER AVENUE, 7 FEET SOUTHWEST OF SANITARY SEWER MANHOLE AT NORTHEAST CORNER OF PINE TREE DRIVE AND MILLER AVENUE.

CONTROL POINT 111
NORTHING = 288389.683/EASTING = 13285419.400
ELEVATION = 917.59
SET BAR WITH CAP 8 FEET NORTH OF ROAD CATCH BASIN ON NORTH SIDE OF MILLER AVENUE, 33 FEET WEST OF CENTERLINE PINE TREE DRIVE, 7 FEET EAST OF HYDRANT ON NORTHWEST INTERSECTION CORNER OF PINE TREE DRIVE AND MILLER AVENUE.

CONTROL POINT 112
NORTHING = 288316.847/EASTING = 13285469.650
ELEVATION = 914.66
SET BAR AND CAP IN GRASS HALFWAY BETWEEN BACK OF CURB FOR SOUTH SIDE OF MILLER AND SIDEWALK, 100 FEET WEST OF CENTERLINE DRIVEWAY #1575, 12 FEET NORTHWEST OF UTILITY POLE, 17 FEET EAST SOUTHEAST OF ROAD CATCH BASIN ON SOUTH SIDE OF MILLER AVENUE.



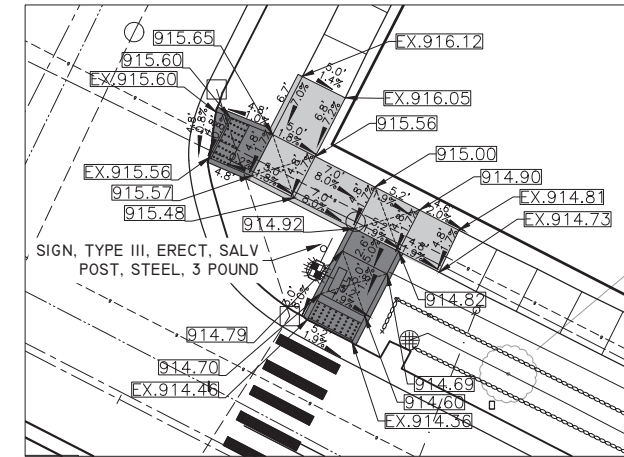
NORTH SIDE OF MILLER AVE



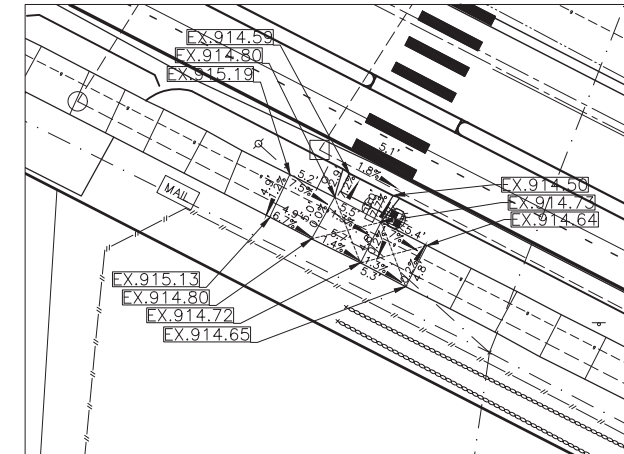
SOUTH SIDE OF MILLER AVE

MILLER AVE @ PINE TREE DR - REMOVALS

 **SIDEWALK, SIDEWALK RAMP, & DRIVEWAY APPROACH, ANY THICK, REM**





NORTH SIDE OF MILLER AVE

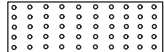


SOUTH SIDE OF MILLER AVE
DETAILED GRADES SHOWN FOR INFORMATION ONLY.
NO SIDEWALK WORK BEING DONE HERE.

MILLER AVE @ PINE TREE DR - GRADING DETAILS

 **CONC, SIDEWALK, 4 IN.**

 **CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN.**

 **DETECTABLE WARNING SURFACE**



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MILLER AVE @ PINE TREE DR

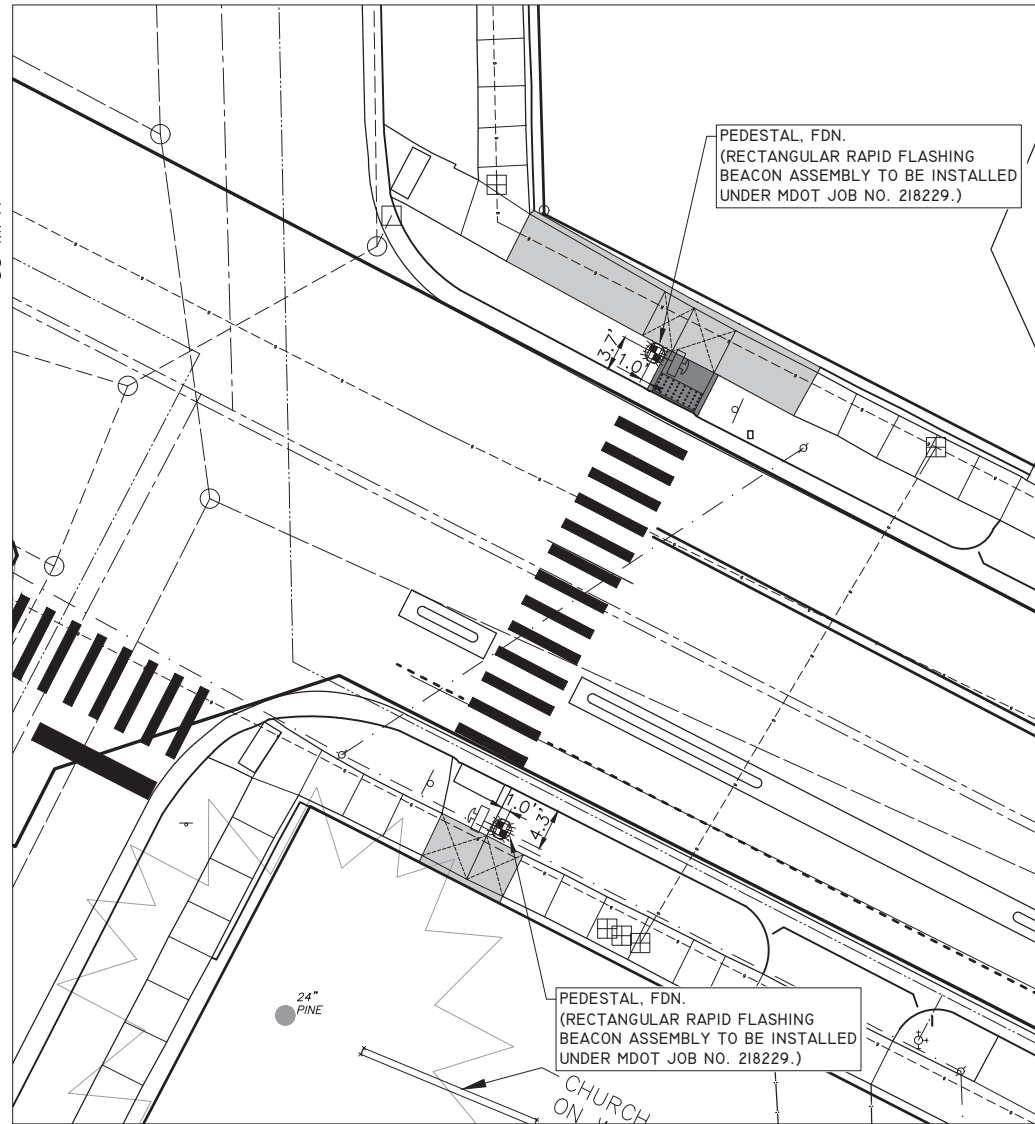
SCALE: 1"=20'
DRAWING No.

SHEET No.

NEWPORT RD

66' R.O.W.
25 MPH

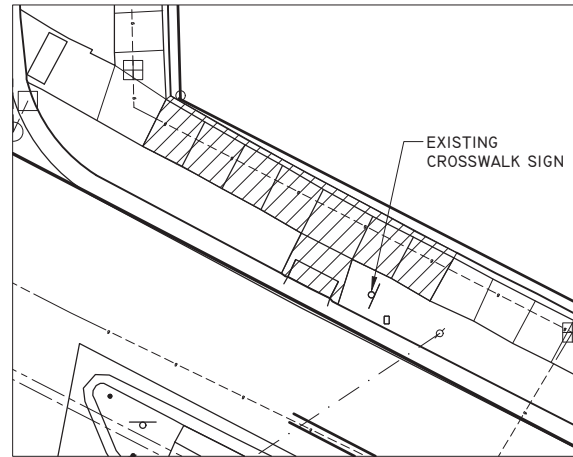
MILLER AVE
66' R.O.W.
35 MPH



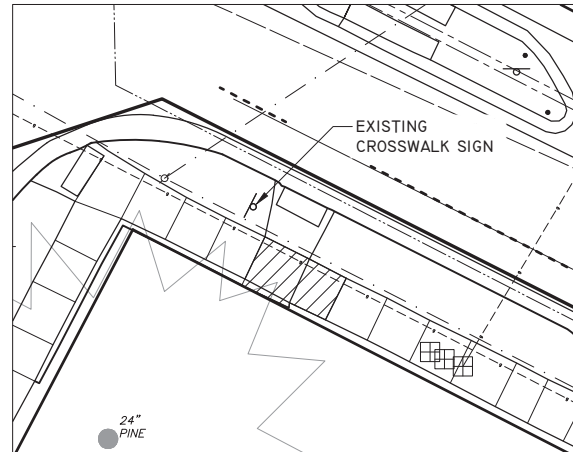
NEWPORT PL
60' R.O.W.
25 MPH

MILLER AVE @ NEWPORT RD - RRFB

MILLER AVE
66' R.O.W.
30 MPH

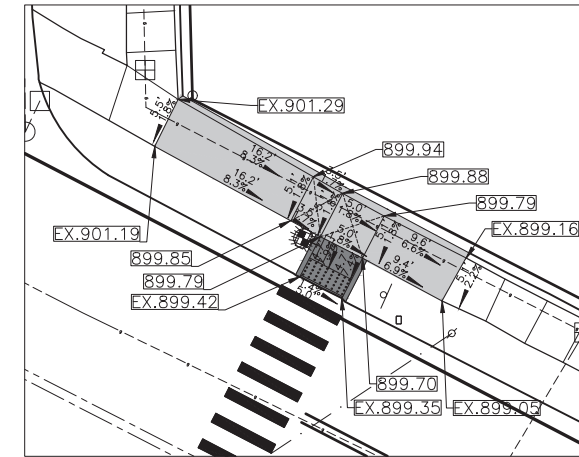


NORTH SIDE OF MILLER AVE

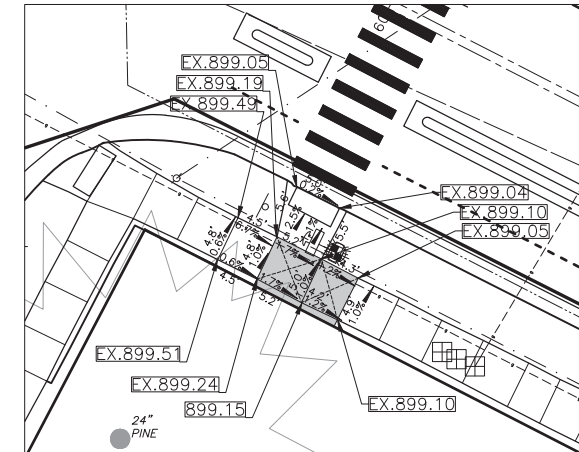


SOUTH SIDE OF MILLER AVE

MILLER AVE @ NEWPORT RD - REMOVALS

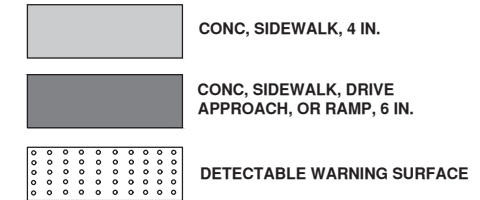


NORTH SIDE OF MILLER AVE



SOUTH SIDE OF MILLER AVE

MILLER AVE @ NEWPORT RD - GRADING DETAILS



BENCHMARK AND CONTROL POINT INFORMATION:

BENCHMARK 206
ELEVATION = 907.49
TOP OF ARROW ON HYDRANT 2 FEET NORTH OF NORTH BACK FOR MILLER AVENUE, 30 FEET WEST OF NORTHWEST INTERSECTION CORNER NEWPORT ROAD AND MILLER AVENUE.

BENCHMARK 207
ELEVATION = 900.25
TOP OF RAILROAD FIGHT IN SOUTH FACE OF UTILITY POLE ON NORTH SIDE OF MILLER AVENUE, 50 FEET EAST OF NORTHEAST INTERSECTION CENTER OF MILLER AVENUE AND NEWPORT ROAD.

CONTROL POINT 113
NORTHING = 288023.226/EASTING = 13286030.480 ELEVATION = 899.33
SET BAR AND CAP IN GRASS HALF WAY BETWEEN SIDEWALK AND BACK OF CURB ON SOUTH SIDE MILLER AVENUE, 9 FEET WEST OF HYDRANT IN FRONT OF HURON RIVER METHODIST CHURCH.

CONTROL POINT 114
NORTHING = 288077.933/EASTING = 13286032.290 ELEVATION = 900.82
SET BAR AND CAP IN GRASS BETWEEN BACK OF CURB AND SIDEWALK ON NORTH SIDE OF MILLER AVENUE, 21 FEET EAST OF BASIN AT NORTHEAST CORNER OF NEWPORT ROAD AND MILLER AVENUE.

CONTROL POINT 115
NORTHING = 288121.797/EASTING = 13285976.420 ELEVATION = 904.17
SET BAR AND CAP 4 FEET WEST OF CATCH BASIN ON WEST SIDE OF NEWPORT ROAD AT THE NORTHWEST INTERSECTION CORNER OF NEWPORT ROAD AND MILLER AVENUE, 9 FEET NORTH OF CENTERLINE SIDEWALK FOR NORTH SIDE OF MILLER AVENUE.

CONTROL POINT 116
NORTHING = 288071.614/EASTING = 13285937.120 ELEVATION = 903.95
SET BAR WITH CAP 6 FEET SOUTHEAST OF CATCH BASIN THAT IS 25 FEET WEST OF THE SOUTHWEST CORNER OF NEWPORT ROAD AND MILLER AVENUE, 6 FEET NORTH OF CENTERLINE OF SIDEWALK ON SOUTH SIDE OF MILLER AVENUE, 25 FEET NORTH OF 54 INCH OAK TREE.



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
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MILLER AVE @ NEWPORT RD



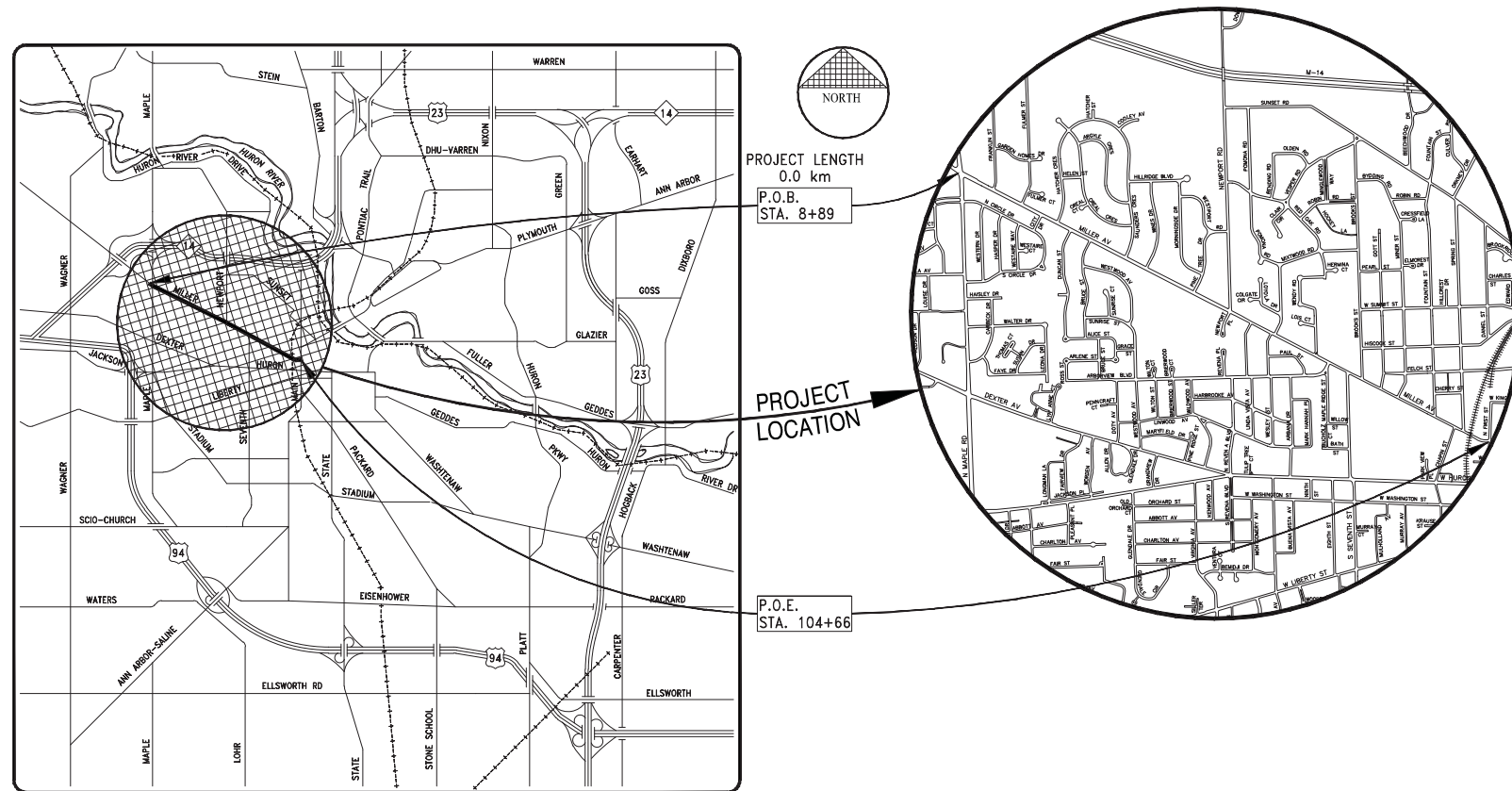
SHEET No.

CITY OF ANN ARBOR PROJECT MANAGEMENT MILLER AVENUE CYCLE TRACK MAPLE ROAD TO NEWPORT ROAD AND CHAPIN STREET TO FIRST STREET

FINAL BID PLANS - 04/09/24

| SHEET INDEX | |
|--------------|-------------------------|
| SHEET NUMBER | SHEET TITLE |
| 97 | COVER SHEET |
| 98 | NOTES & LEGEND |
| 99 - 100 | TYPICAL SECTIONS |
| 101 - 107 | DETAILS |
| 108 - 114 | REMOVALS SHEETS |
| 115 - 121 | CONSTRUCTION SHEETS |
| 122 | DETAIL GRADES |
| 123 - 130 | PAVEMENT MARKING SHEETS |

"THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS."



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800-482-7171
(TOLL FREE)

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 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.

PREPARED BY:

HRC
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

555 HULET DRIVE
BLOOMFIELD HILLS, MI. P.O. BOX 824
48303 - 0824

PREPARED UNDER THE SUPERVISION OF:



NICHOLAS NICITA, P.E., PTOE
PROJECT MANAGER

PROJECT MANAGEMENT SERVICE UNIT



TREVOR BRYDON, AICP
TRANSPORTATION PROGRAM MANAGER

APRIL 09, 2024
DATE

DRAWING NO.
20230643-CV01

SHEET 097

PROJECT NAME: MILLER AVE. CYCLE TRACK

ABBREVIATIONS

| | | | |
|--------|--|------------|---|
| A | | MISC | MISCELLANEOUS |
| ABD | ABANDONED | MOD | MODIFIED |
| AC | ACRES | N | NORTH, NORTHING COORDINATE |
| APPROX | APPROXIMATE | NA | NOT APPLICABLE |
| ARCH | ARCHITECT(U)RAL | NIC | NOT IN CONTRACT |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE | N.T.S. | NOT TO SCALE |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | O | |
| B | | O.C. | ON CENTER |
| B.M. | BENCHMARK | O.D. | OUTER DIAMETER |
| BIT | BITUMINOUS | OFF | OFFSET |
| BLDG | BUILDING | OPT | OPTIONAL |
| B/F | BOTTOM OF FOOTING | P | |
| B/S | BOTTOM OF SWALE | PC | POINT OF CURVATURE (POC) |
| B/W | BOTTOM OF WALL (FINISH GRADE) | PERF | PERFORATED |
| C | | PERP | PERPENDICULAR |
| CB | CATCH BASIN | PLMB | PLUMBING |
| C | CURB INLET | PREFAB | PREFABRICATED |
| CIP | CAST IRON PIPE | PREP | PREPARATION |
| CL | CLASS | PROJ | PROJECTED |
| COMP | CORRUGATED METAL PIPE | PROP | PROPOSED |
| CON | CONDENSATE | PSF | POUNDS PER SQUARE FOOT |
| CO | CLEANOUT | PSI | POUNDS PER SQUARE INCH |
| CONC | CONCRETE | PT | POINT OF TANGENCY (POT) |
| CONTR | CONTRACTOR | Pv? | POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE |
| CU FT | CUBIC FOOT | PVI | POINT OF VERTICAL INTERSECTION |
| CURV | CURVATURE | PVMT | PAVEMENT |
| CU YD | CUBIC YARD | PWR | POWER |
| D | | Q | |
| DEMOL | DEMOLISH | QTY | QUANTITY |
| DEPT | DEPARTMENT | R | |
| DIA | DIAMETER | RAD | RADIUS |
| DIP | DUCTILE IRON PIPE | RCP | REINFORCED CONCRETE PIPE |
| DWG | DRAWING | RCPT | RECEPTACLE |
| E | | RD | ROAD |
| EA | EAST, EASTING COORDINATE | REF | REFERENCE |
| EACH | | REINF | REINFORCED, REINFORCEMENT |
| EG | EXISTING GRADE | REMO | REMOVE |
| ELEV | ELEVATION | REQD | REQUIRED |
| E/M | EDGE OF METAL (EDGE OF GUTTER) | RIM | RIM ELEVATION |
| EQ | EQUAL | ROW | RIGHT OF WAY |
| EX | EXISTING | S | |
| F | | S | SOUTH |
| FF | FINISH FLOOR ELEVATION | SAN | SANITARY SEWER |
| FG | FINISH GRADE | SCH | SCHEDULE |
| FLASH | FLASHING | SECT | SECTION |
| FM | FORCE MAIN | SESC | SOIL EROSION AND SEDIMENTATION CONTROL |
| FT | FOOT, FEET | SIM | SIMILAR |
| FURN | FURNISHING | SP | SPACE, SPACED, SPACING |
| G | | SQ FT | SQUARE FEET |
| GALV | GALVANIZED | SQ YD | SQUARE YARD |
| GAS | NATURAL GAS | ST LT | STREET STREET LIGHT |
| G/C | GUTTER OF CURB (FLOWLINE) | STA | STATION |
| GVL | GRAVEL | STAG | STAGGER, STAGGERED |
| H | | STD STL | STANDARD STEEL |
| H | HIGH | SSL | STAINLESS STEEL |
| HB | HOSE BIBB | STM | STORM SEWER |
| HCAP | ADA HANDICAP | STRUCT | STRUCTURAL |
| HDPE | HIGH-DENSITY POLYETHYLENE | SUBCONTR | SUBCONTRACTOR |
| HMA | HOT MIX ASPHALT | T | |
| HORZ | HORIZONTAL | T | TELECOM |
| HP | HIGH POINT | T/C | TOP OF CURB |
| HT | HEIGHT | TEMP | TEMPORARY |
| I | | T/F | TOP OF FOOTING |
| I.D. | INNER DIAMETER | T/S | TOP OF SWALE |
| IN | INCH, INCHES | T/W | TOP OF WALL |
| INCL | INCLUDE, INCLUDING | TYP. | TYPICAL |
| INL | INLET PIPE | U | |
| INV. | INVERT ELEVATION | UD | UNDERDRAIN |
| IRR | IRRIGATION | UTIL | UTILITY |
| J | | V | |
| JT | JOINT | V/B: | VALVE BOX |
| L | | VERT | VERTICAL |
| L | LENGTH | W | |
| LF | LINEAR FEET | WM | WATER MAIN |
| LPT | LOW POINT | W/O | WITHOUT |
| LN | LANE | WWF | WELDED WIRE FABRIC |
| LT | LIGHT | Y | |
| LTG | LIGHTING | YARD DRAIN | |
| M | | | |
| MAS | MASONRY | | |
| MATL | MATERIAL | | |
| MAX | MAXIMUM | | |
| M.E. | MATCH EXISTING | | |
| MED | MEDIUM | | |
| MFR | MANUFACTURER | | |
| MH | MANHOLE | | |
| MIN | MINIMUM | | |

CONSTRUCTION NOTES


- THIS PROJECT IS BEING COMPLETED BY THE ANN ARBOR TRANSPORTATION DEPARTMENT AND IS LOCATED IN THE CITY OF ANN ARBOR (CITY).
- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 2024 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND ITS DETAILS WHICH ARE INCLUDED BY REFERENCE.
- THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.
- 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.
- THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 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.
- THE CONTRACTOR IS TO TAKE SPECIAL CARE TO PROTECT THE EXISTING WATER MAIN AND BE RESPONSIBLE FOR MAINTAINING CONSISTENT WATER SERVICE.
- DURING NON-WORKING HOURS, NO TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING.
- 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 FIELD SERVICES.
- THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAIL SPECIFIED ON PLANS. ALL CONCRETE REMOVALS AND REPLACEMENTS REQUIRED FOR THIS WORK WILL BE PAID FOR SEPARATELY.
- POSTAL DELIVERY AND REFUSE PICKUP SERVICE SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
- ALL LIGHT POLES, LUMINAIRES, SIGNS, FITTINGS, HYDRANTS, VALVES AND CASTINGS REMOVED DURING CONSTRUCTION ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR WITHIN 48 HOURS SHALL DELIVER TO CITY OF ANN ARBOR FIELD OPERATIONS AND MAINTENANCE FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.
- WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 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.
- ALL NEW AND EXISTING STORM INLETS WITHIN THE PROJECT SHALL HAVE INLET FILTER PROTECTION FOR THE DURATION CONSTRUCTION.
- ALL CURB, SIDEWALK, DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS DONE.
- THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER.
- 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.
- 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 FIELD OPERATIONS AND MAINTENANCE FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD. STRUCTURES SHALL BE ADJUSTED AS DIRECTED BY ENGINEER.
- PAYMENT FOR DRAINAGE STRUCTURE SUMPS, WHERE SPECIFIED, SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURE SIZES AND OR TYPES.
- 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.
- PAVEMENT MARKINGS DISTURBED AS A RESULT OF PAVEMENT CUTS OR CONSTRUCTION ACTIVITIES SHALL BE REPLACED AS DIRECTED BY PROJECT MANAGEMENT. REPLACEMENT DURING CONSTRUCTION OF THE PROJECT MAY BE CONSIDERED TEMPORARY, WITH FINAL PAVEMENT MARKING RESTORATION TO OCCUR AT THE END OF THE PROJECT.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING PUBLIC ROAD PAVEMENT. DAMAGE TO THE PUBLIC ROAD PAVEMENT DURING THE COURSE OF CONSTRUCTION MAY NECESSITATE MILLING AND RESURFACING OF THE DAMAGED AREAS PRIOR TO ACCEPTANCE.
- ACCESS TO ALL RESIDENTIAL AND COMMERCIAL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.
- ALL TRAFFIC CONTROL DEVICES AND THEIR USAGE MUST CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION.
- DURING THE LANE CLOSURES, ACCESS FOR EMERGENCY VEHICLES (FIRE, AMBULANCE, POLICE) MUST BE MAINTAINED TO ADJACENT HOMES, BUSINESSES, AND SUBDIVISIONS AT ALL TIMES.
- ALL EXISTING PAVEMENT MARKINGS THAT ARE REMOVED FOR TRAFFIC CONTROL OR OBLITERATED DURING CONSTRUCTION OPERATIONS MUST BE REPLACED WITH WATERBORNE MARKINGS. THIS INCLUDES THE SPECIAL MARKINGS - OVERLAY COLD PLASTIC - (SPECIAL EMPHASIS CROSSWALK ARROWS, 24 INCH STOP BAR).
- ANY MDOT SIGNS THAT ARE REMOVED FOR TRAFFIC CONTROL OR OBLITERATED DURING CONSTRUCTION OPERATIONS MUST BE REPLACED IN KIND ON NEW SUPPORTS.
- ALL SIGN MATERIALS AND SUPPORTS MUST MEET NCHRP-350 CRASH WORTHY REQUIREMENTS.
- CONTRACTOR SHALL NOT STORE OR PLACE EQUIPMENT AND/OR MATERIALS INSIDE DRIP LINE OF ANY CITY TREE. MECHANICAL DAMAGE TO CITY OWNED TREES (I.E. BARK DAMAGE, BRANCH BREAKAGE) IS NOT PERMITTED. CONTRACTOR IS RESPONSIBLE FOR PROPERLY PRUNING TREES TO PREVENT DAMAGE. IF BRANCHES GREATER THAN 2" IN DIAMETER REQUIRE PRUNING, CONTRACTOR TO CONTACT FORESTRY FOR CONSULTATION AND EVALUATION AT (734) 794-6320. NO ROOTS OF THE CITY-OWNED TREES GREATER THAN 2 INCHES IN DIAMETER ARE TO BE CUT. IF CONTRACTOR ENCOUNTERS CITY-OWNED TREES WITH ROOTS GREATER THAN 2 INCHES IN DIAMETER THAT THEY DETERMINE NEED TO BE CUT. CONTACT FORESTRY IMMEDIATELY FOR EVALUATION. ALL TRENCHING AND BORE PITS OF ANY KIND SHALL BE CLEAR OF TREE DRIP LINES. IF ANY CITY-OWNED STREET TREES ARE DAMAGED BY THIS WORK, THE CONTRACTOR MUST CONTACT FORESTRY AS SOON AS POSSIBLE SO THAT THE DAMAGE CAN BE ASSESSED. CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAMAGE REMEDIATION.
- PAVEMENT REMOVAL LIMITS TO BE DISCUSSED AND APPROVED BY ENGINEER PRIOR TO WORK BEING DONE. DURING UTILITY CONSTRUCTION ONLY REMOVE PAVEMENT NEEDED FOR INSTALLATION.

S.E.S.C. NOTES

- SOIL EROSION AND SEDIMENTATION CONTROL NOTES:
NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.
- 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.
 - ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 - 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.
 - 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.
 - 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, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
 - 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.
 - 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.
 - SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
 - PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
 - 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.
 - 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.
 - 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:
- 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.
 - STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
 - PERFORM ALL CURB AND GUTTER AND PAVEMENT REMOVALS IN ACCORDANCE WITH CONSTRUCTION SEQUENCE CONTAINED WITHIN THE SPECIAL PROVISION FOR MAINTAINING TRAFFIC.
 - INSTALL STORM SEWERS AND OTHER ENCLOSED DRAINAGE FEATURES IN ACCORDANCE WITH CONSTRUCTION SEQUENCE CONTAINED WITHIN THE SPECIAL PROVISION FOR MAINTAINING TRAFFIC. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS AND CATCH BASINS.
 - PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.) IN ACCORDANCE WITH CONSTRUCTION SEQUENCE CONTAINED WITHIN THE SPECIAL PROVISION FOR MAINTAINING TRAFFIC.
 - CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
 - COMPLETE ALL DITCH GRADING AND FINE GRADING.
 - RESTORE ALL DISTURBED AREAS IN ACCORDANCE WITH SLOPE RESTORATION SPECIAL PROVISION.
 - REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
 - 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.

CONTACT INFORMATION


| PUBLIC UTILITIES | OWNER | CONTACT |
|-------------------------------------|--|---|
| PUBLIC WORKS MANAGER | CITY OF ANN ARBOR 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108 | PAUL MATTHEWS (734) 794-6350 |
| ENGINEERING | CITY OF ANN ARBOR 301 E. HURON STREET ANN ARBOR, MI 48104 | (734) 794-6410 |
| TRAFFIC SIGNS, MARKINGS AND SIGNALS | CITY OF ANN ARBOR 301 E. HURON STREET ANN ARBOR, MI 48104 | CYNTHIA REDINGER (734) 794-6410 x43632 |



Know what's below.
Call before you dig.

| | | | | | |
|-----------------|---------|-----|-----|-----|---------|
| | | NEN | NEN | NEN | CHECKED |
| | 4/9/24 | ENR | ENR | ENR | DRAWN |
| | 3/13/24 | | | | DATE |
| | 3/6/24 | | | | |
| FINAL BID PLANS | | | | | |
| FINAL PLANS | | | | | |
| CITY REVIEW | | | | | |
| DESCRIPTION | | | | | |
| REV. | | | | | |
| 3 | | | | | |
| 2 | | | | | |
| 1 | | | | | |
| | | | | | |

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CITY OF ANN ARBOR - ENGINEERING
MILLER ROAD CYCLE TRACK
PROJECT NOTES

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 866
ANN ARBOR MI 48106-0867
734-794-4410
www.aagov.org

SCALE: NOT TO SCALE

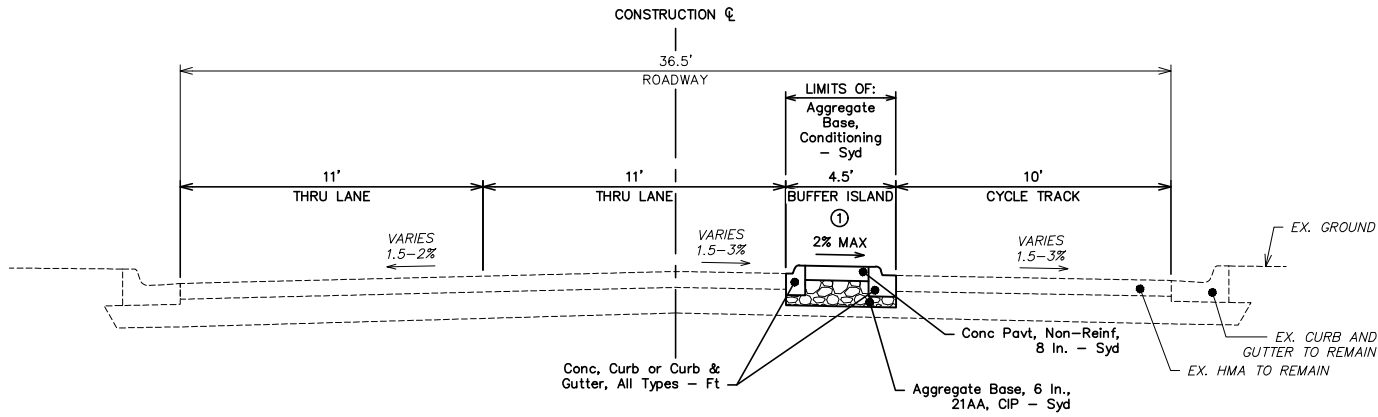
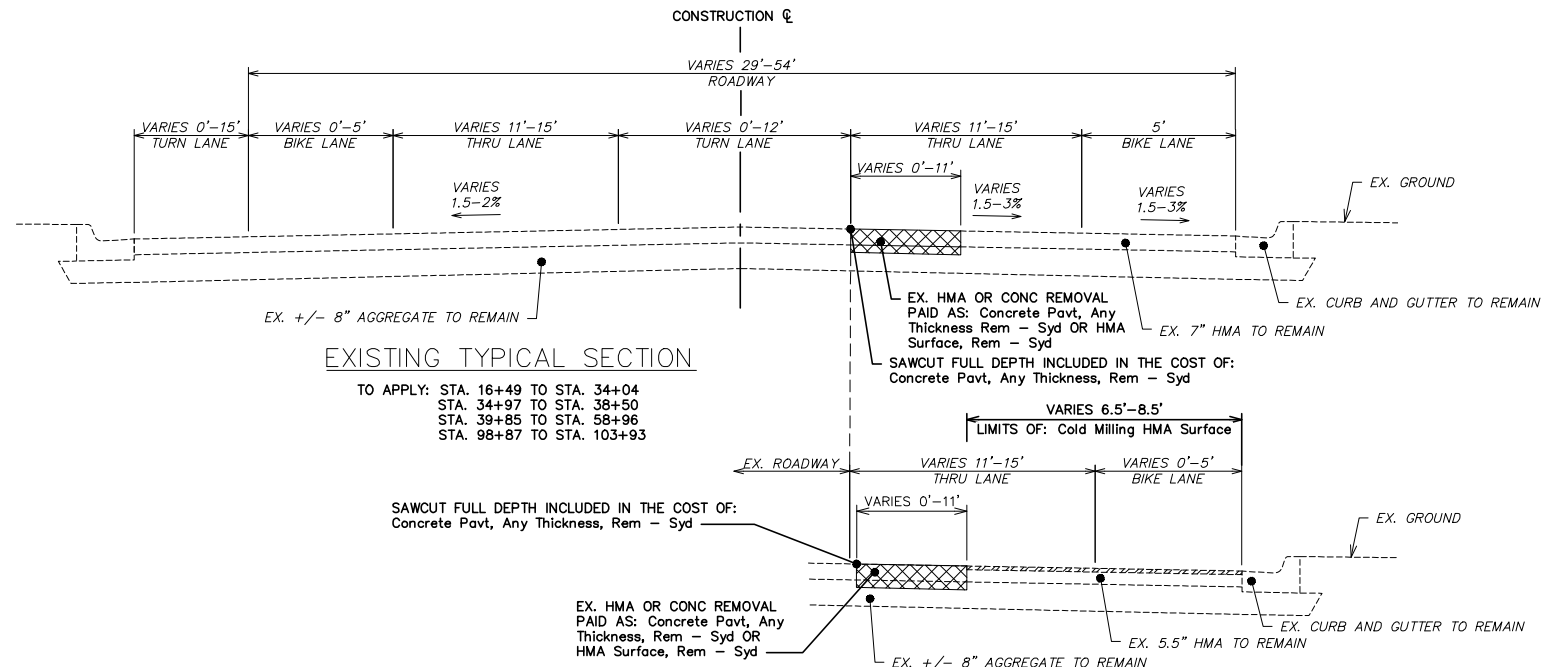
DRAWING No. 20230643-N101

SHEET No.

| HMA APPLICATION ESTIMATE | | | |
|--------------------------|------------------------|-------------------|------------------------|
| ITEM | RATE PER LIFT (Lb/Syd) | PERFORMANCE GRADE | REMARKS |
| HMA, 5EML | 220 | 64-22 | TOP COURSE AM=260 MIN. |
| HMA, 4EML | 275 | 64-22 | LEVELING COURSE |
| HMA, 3 EML | 330 | 64-22 | BASE COURSE |

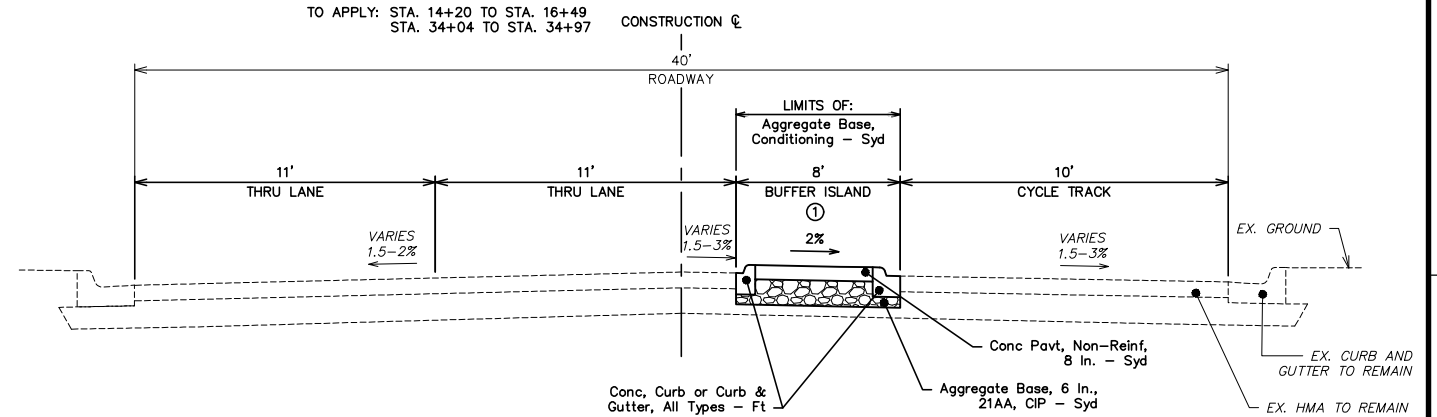
NOTES:

① SEE PLANS FOR EXACT LIMITS OF BUFFER.



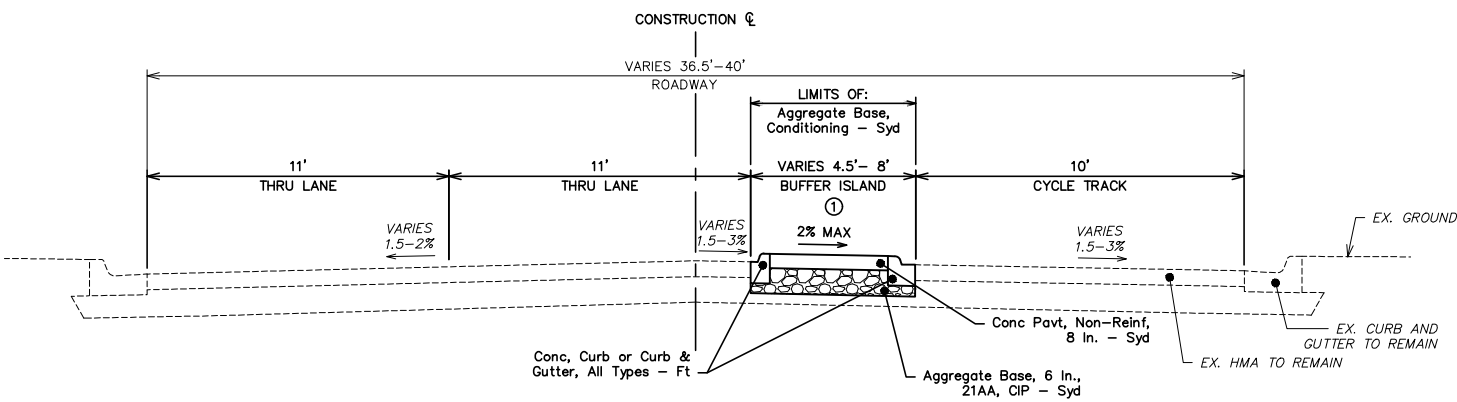
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TO APPLY: STA. 17+02 TO STA. 21+05



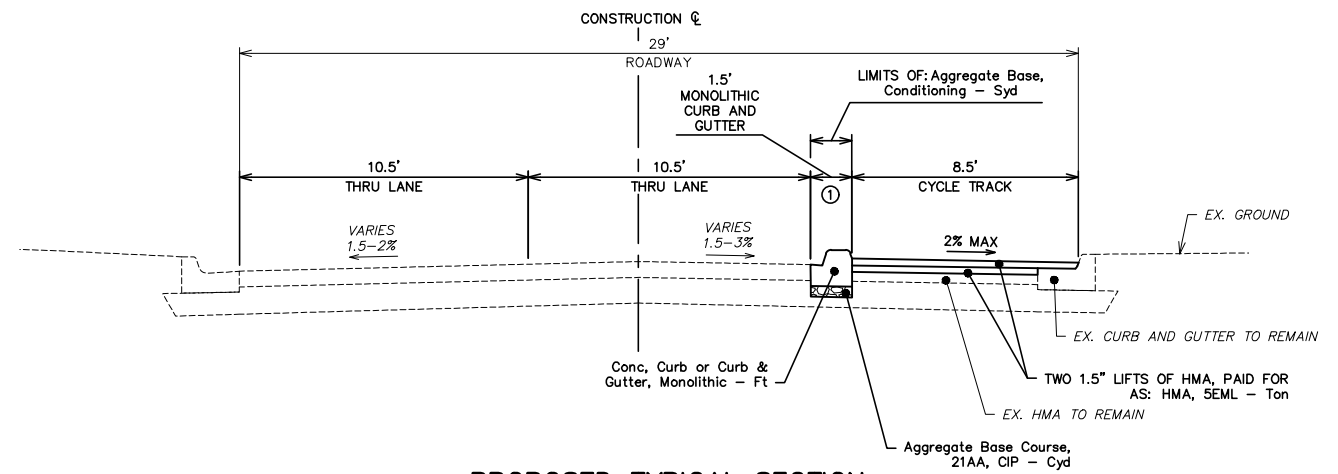
PROPOSED TYPICAL SECTION

TO APPLY: STA. 21+98 TO STA. 33+30
STA. 40+09 TO STA. 42+71



PROPOSED TYPICAL SECTION

TO APPLY: STA. 21+35 TO STA. 21+67
STA. 33+61 TO STA. 33+72



PROPOSED TYPICAL SECTION

TO APPLY: STA. 34+04 TO STA. 34+97

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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

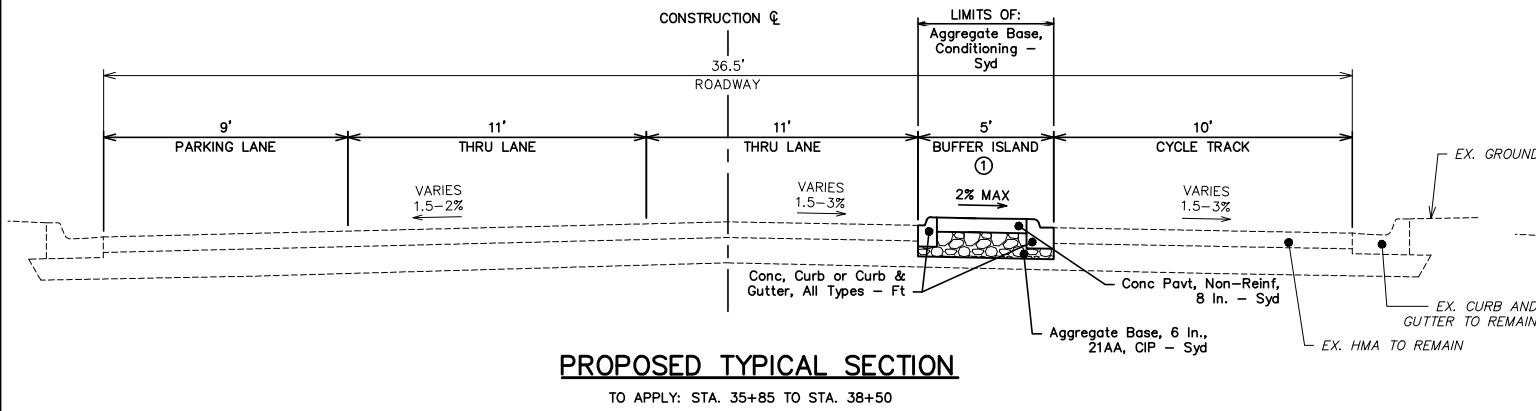
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 866
ANN ARBOR MI 48106-0867
734.764.4410
www.a2gov.org



MILLER ROAD CYCLE TRACK TYPICAL SECTIONS

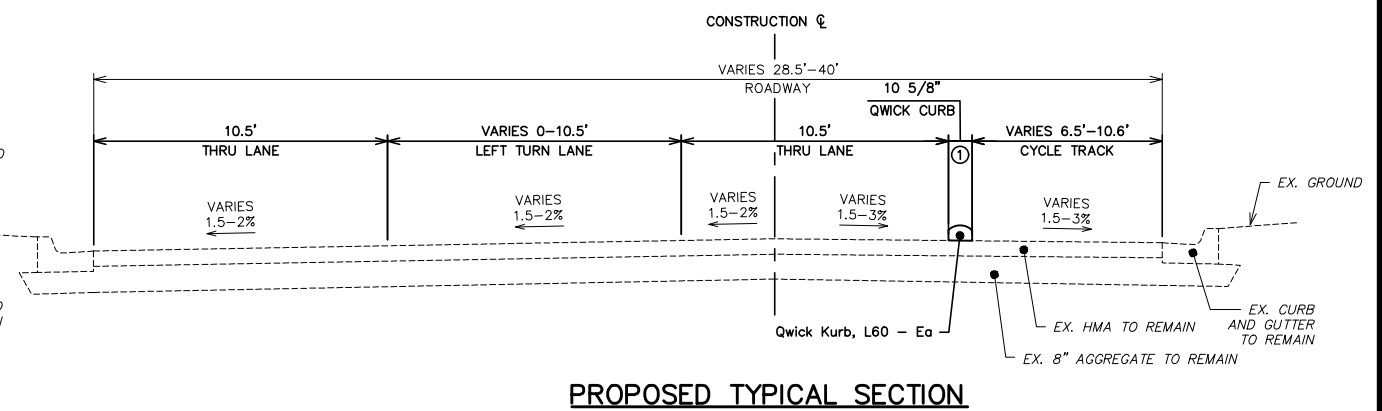
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DRAWING No. 20230643-TYP01
SHEET No.

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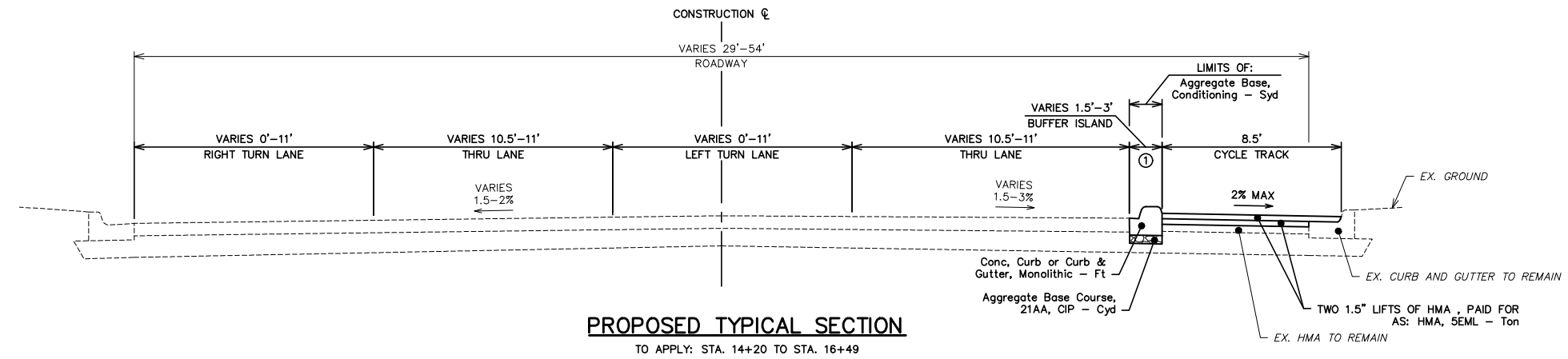
PROPOSED TYPICAL SECTION

TO APPLY: STA. 35+85 TO STA. 38+50



PROPOSED TYPICAL SECTION

TO APPLY: STA. 43+09 TO STA. 58+96
STA. 98+87 TO STA. 103+93



PROPOSED TYPICAL SECTION

TO APPLY: STA. 14+20 TO STA. 16+49

NOTES:
① SEE PLANS FOR EXACT LIMITS OF BUFFER.



| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

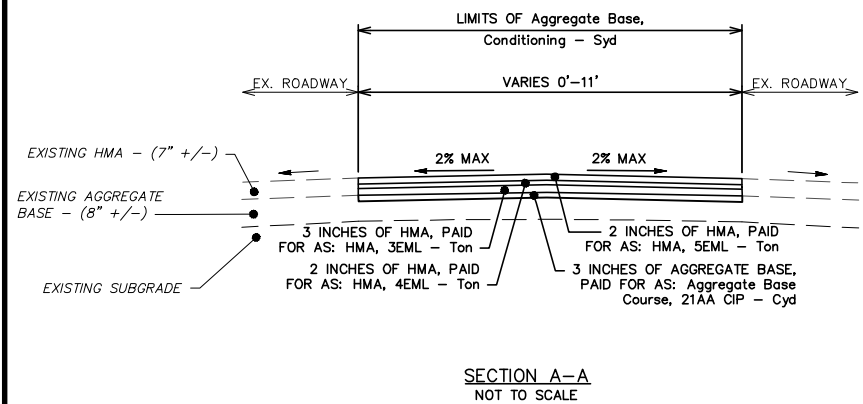
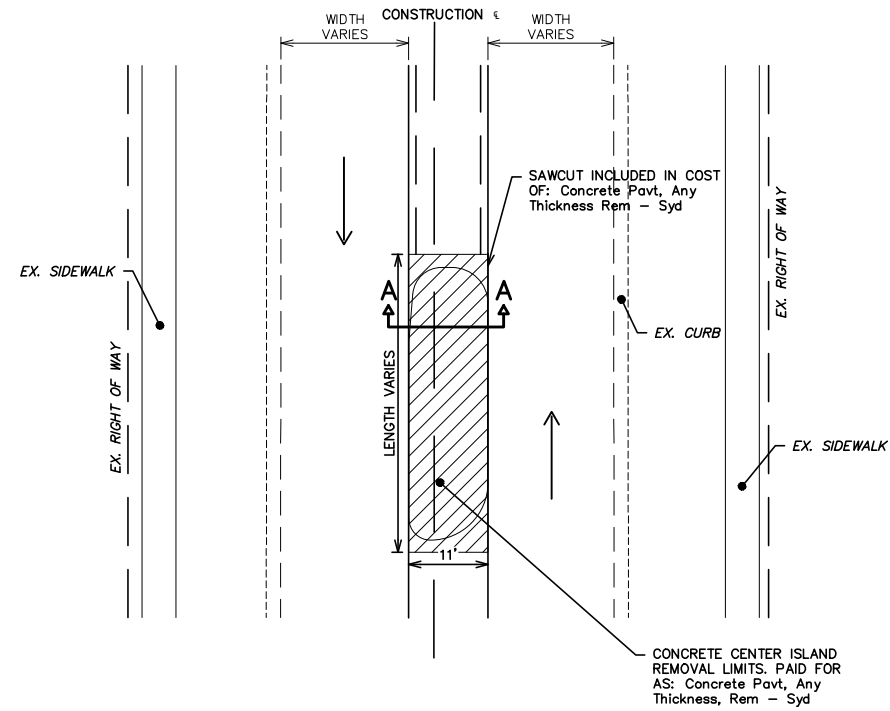
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www.a3gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
TYPICAL SECTIONS

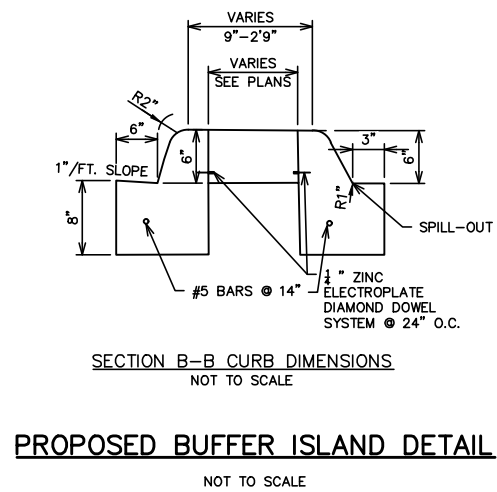
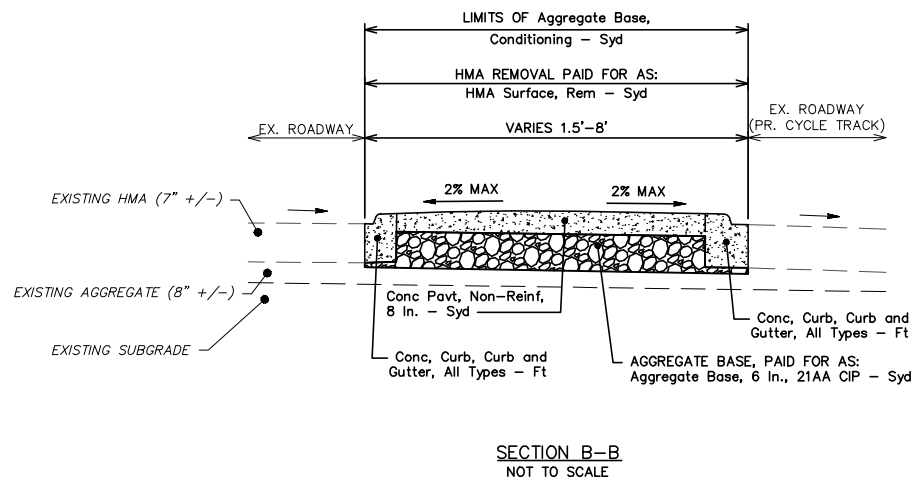
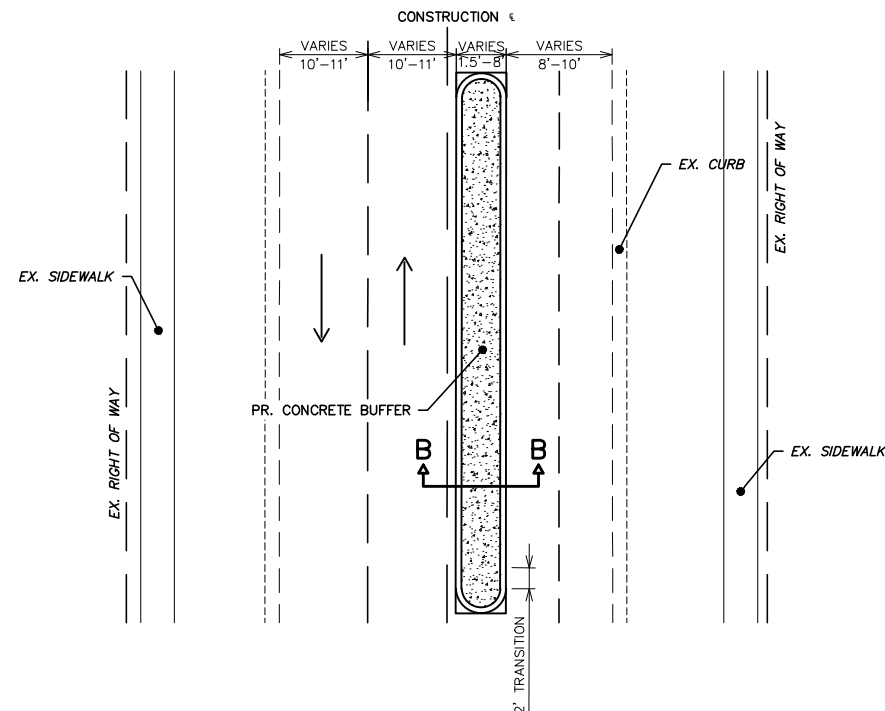
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DRAWING No. 20230643-TYP02

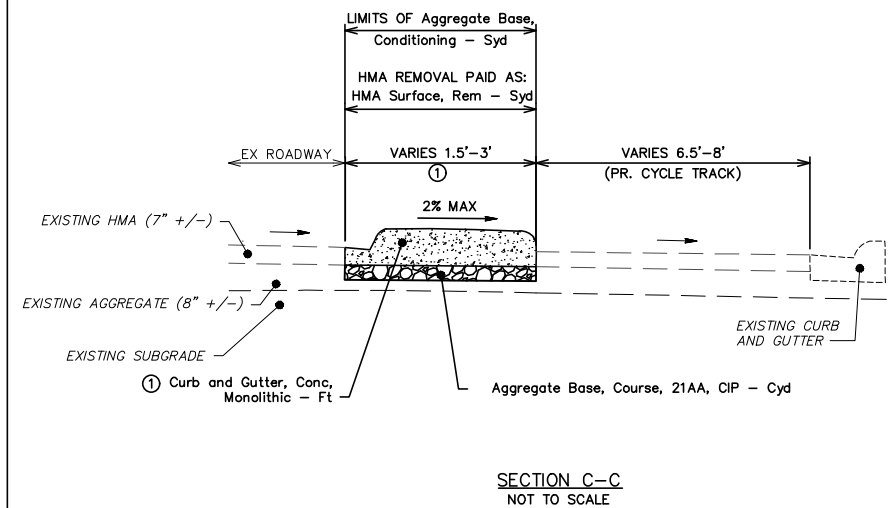
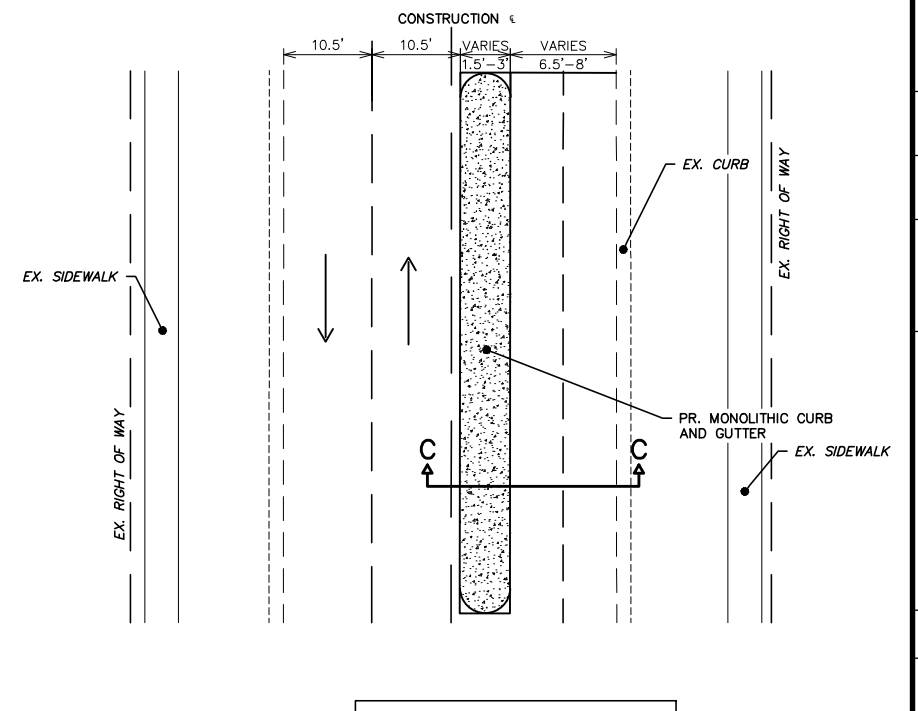
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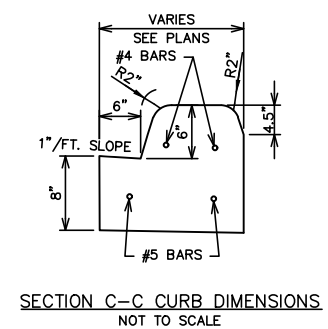
EXISTING PEDESTRIAN ISLAND REMOVAL DETAIL
NOT TO SCALE



PROPOSED BUFFER ISLAND DETAIL
NOT TO SCALE



NOTES:
① CONCRETE CURB TO PITCH AWAY FROM ROADWAY CROWN AT A 2% (MAX) CROSS SLOPE.



PROPOSED MONOLITHIC CURB AND GUTTER DETAIL
NOT TO SCALE



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

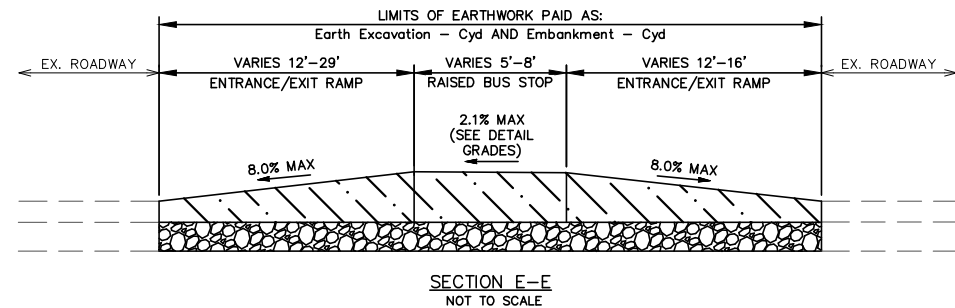
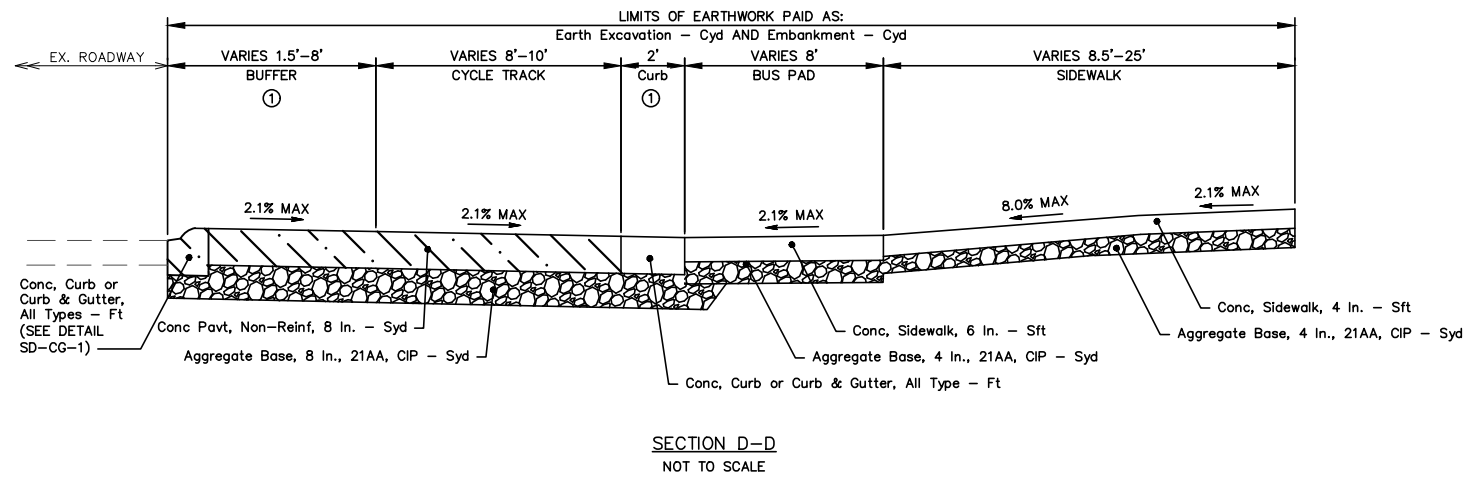
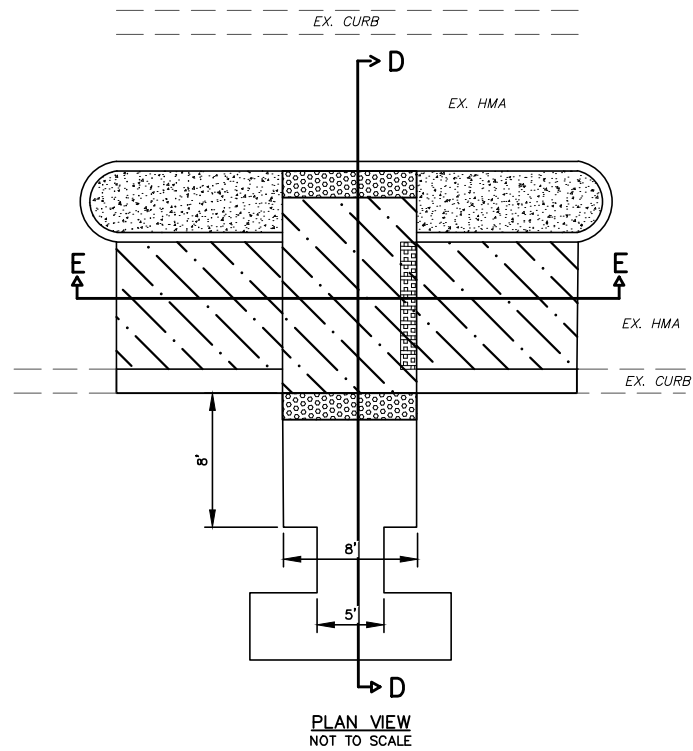
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MILLER ROAD CYCLE TRACK
PROJECT DETAILS

SCALE: NOT TO SCALE
DRAWING No. 20230643-DT01
SHEET No.

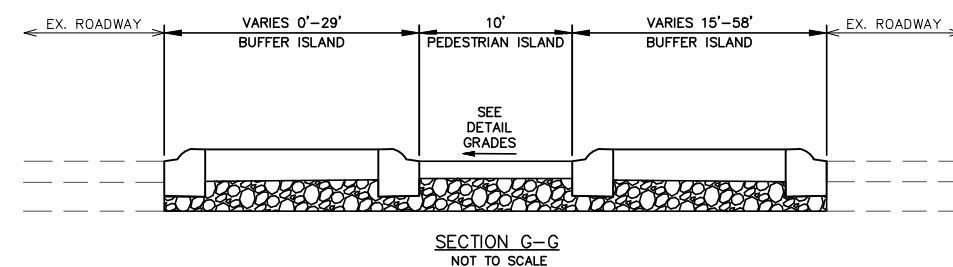
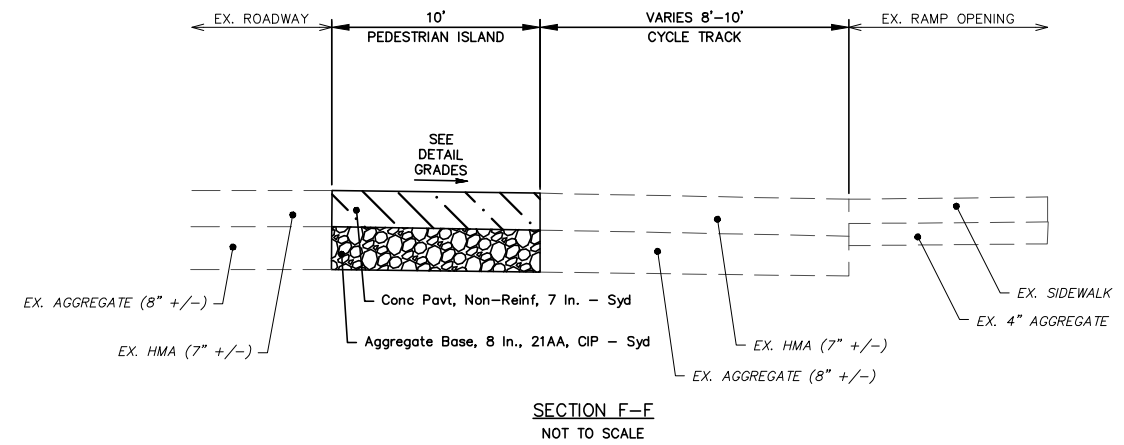
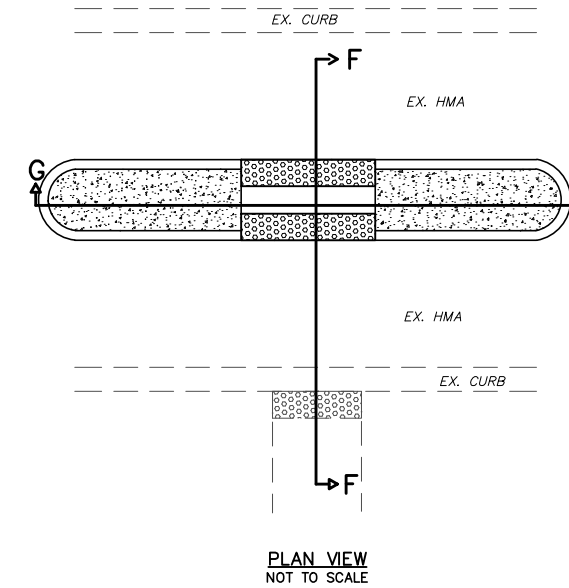
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RAISED CONCRETE BUS STOP DETAIL
NOT TO SCALE

TO APPLY: STA. 25+69 TO STA. 26+61
STA. 42+14 TO STA. 42+71
STA. 98+87 TO STA. 99+23

- NOTES:
① CONCRETE CURB AND GUTTER TO SLOPE UP WITH CONCRETE SECTION. SEE DETAIL GRADES.



PEDESTRIAN ISLAND DETAIL
NOT TO SCALE



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

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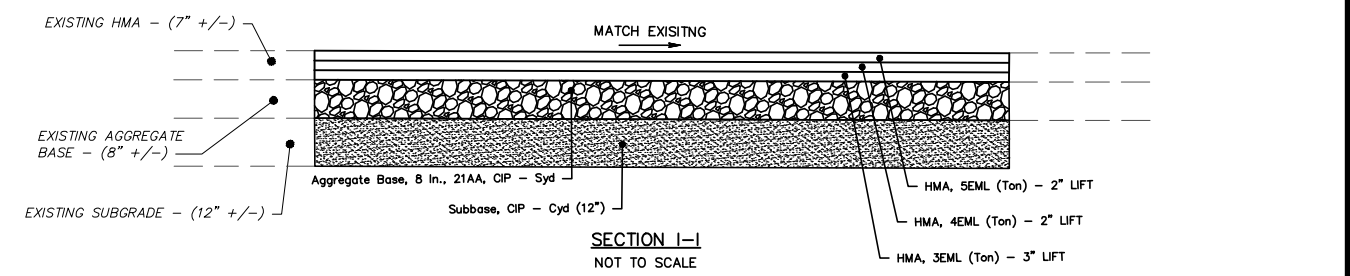
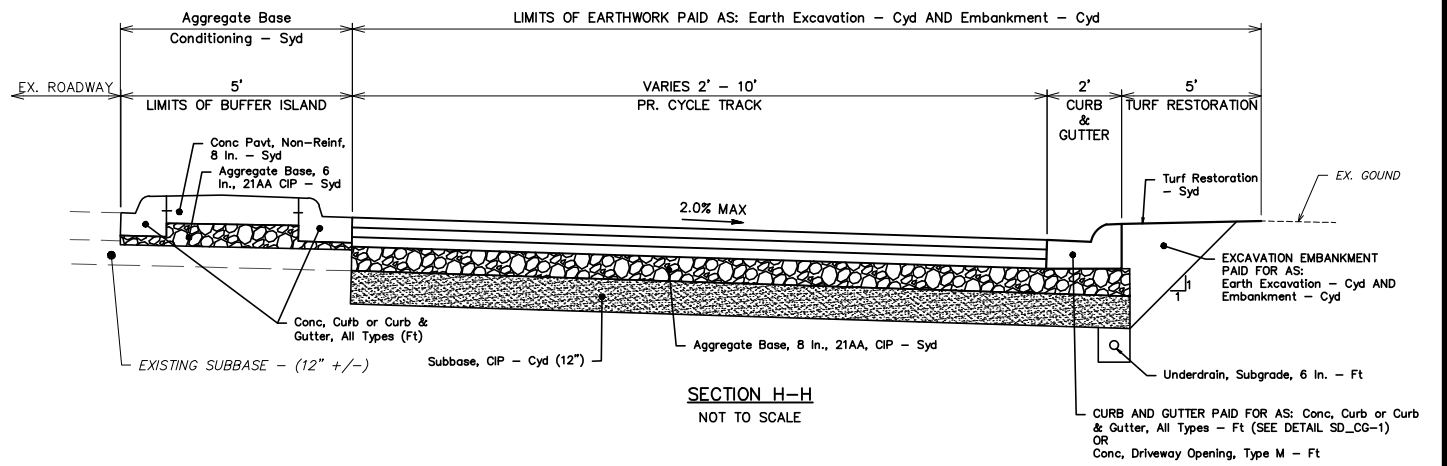
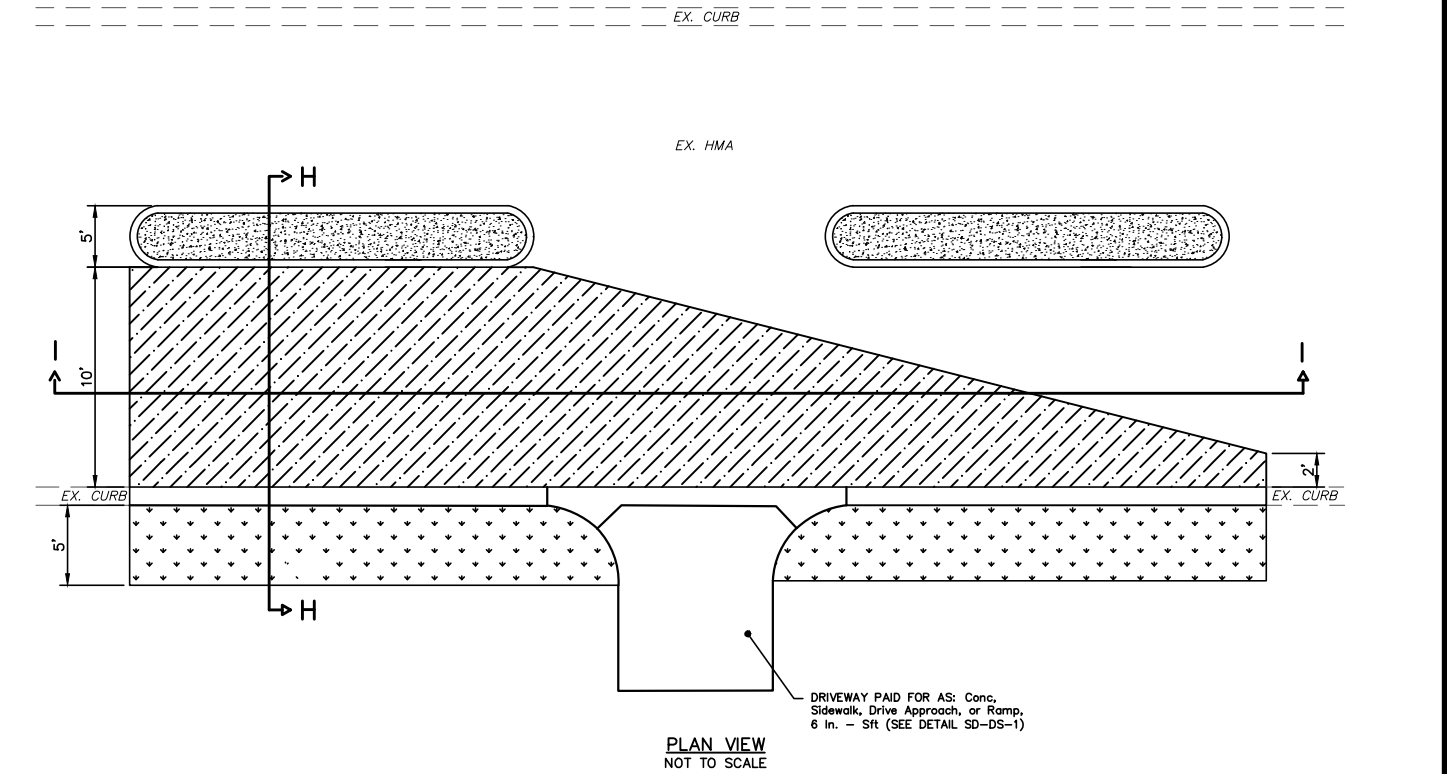


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MILLER ROAD CYCLE TRACK
PROJECT DETAILS

SCALE: NOT TO SCALE
DRAWING No. 20230643-DT02

SHEET No.

V:\202306\20230643\Sheets\dt03.dwg Dwg Created: 5-Mar-24 - Plot Date: 5-Apr-24



CURB ALIGNMENT RECONSTRUCT
NOT TO SCALE
TO APPLY: STA. 38+80 TO STA. 39+85



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

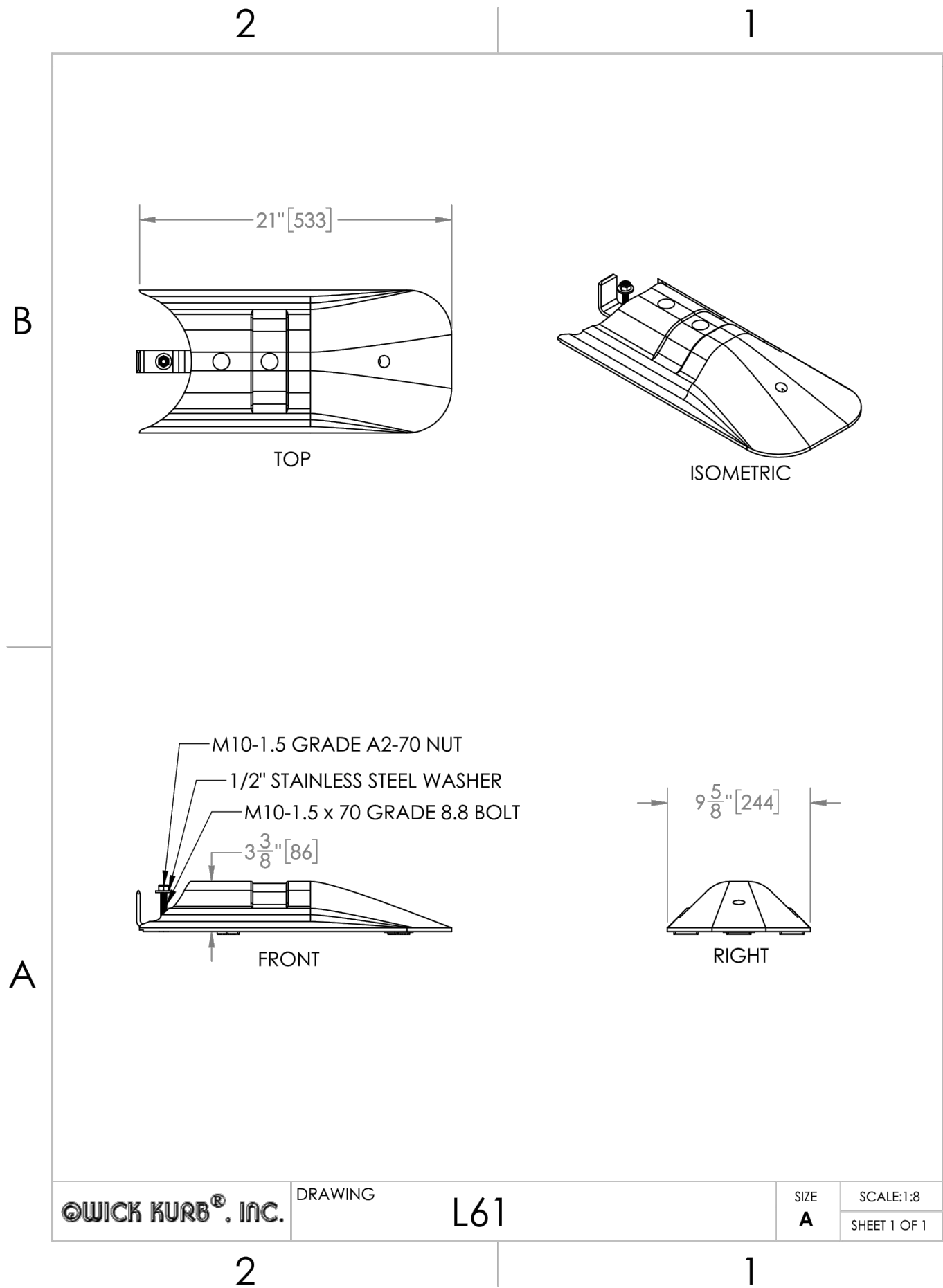
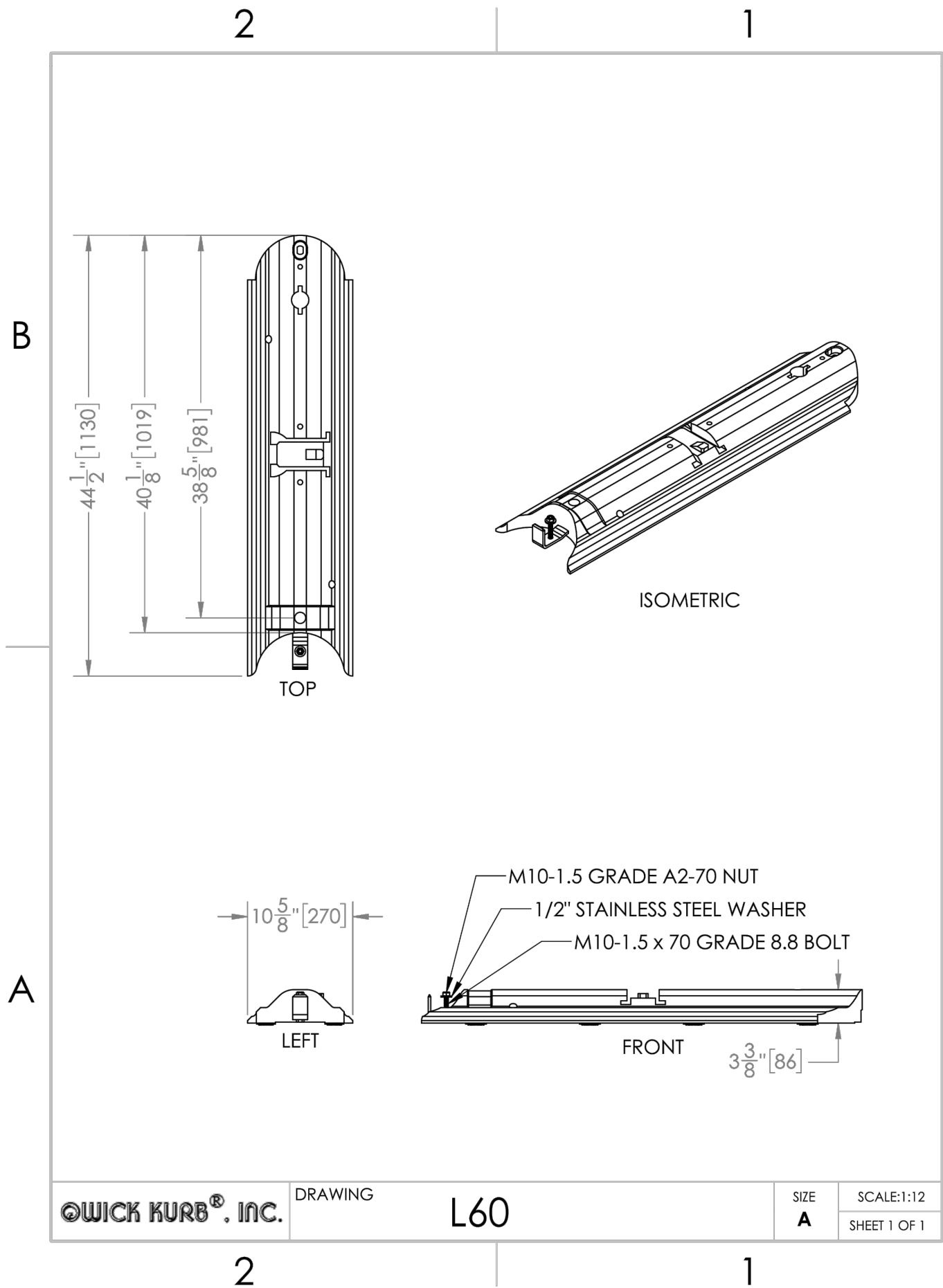
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MILLER ROAD CYCLE TRACK
PROJECT DETAILS

SCALE: NOT TO SCALE
DRAWING No. 20230643-DT03

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| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

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CITY OF ANN ARBOR MICHIGAN

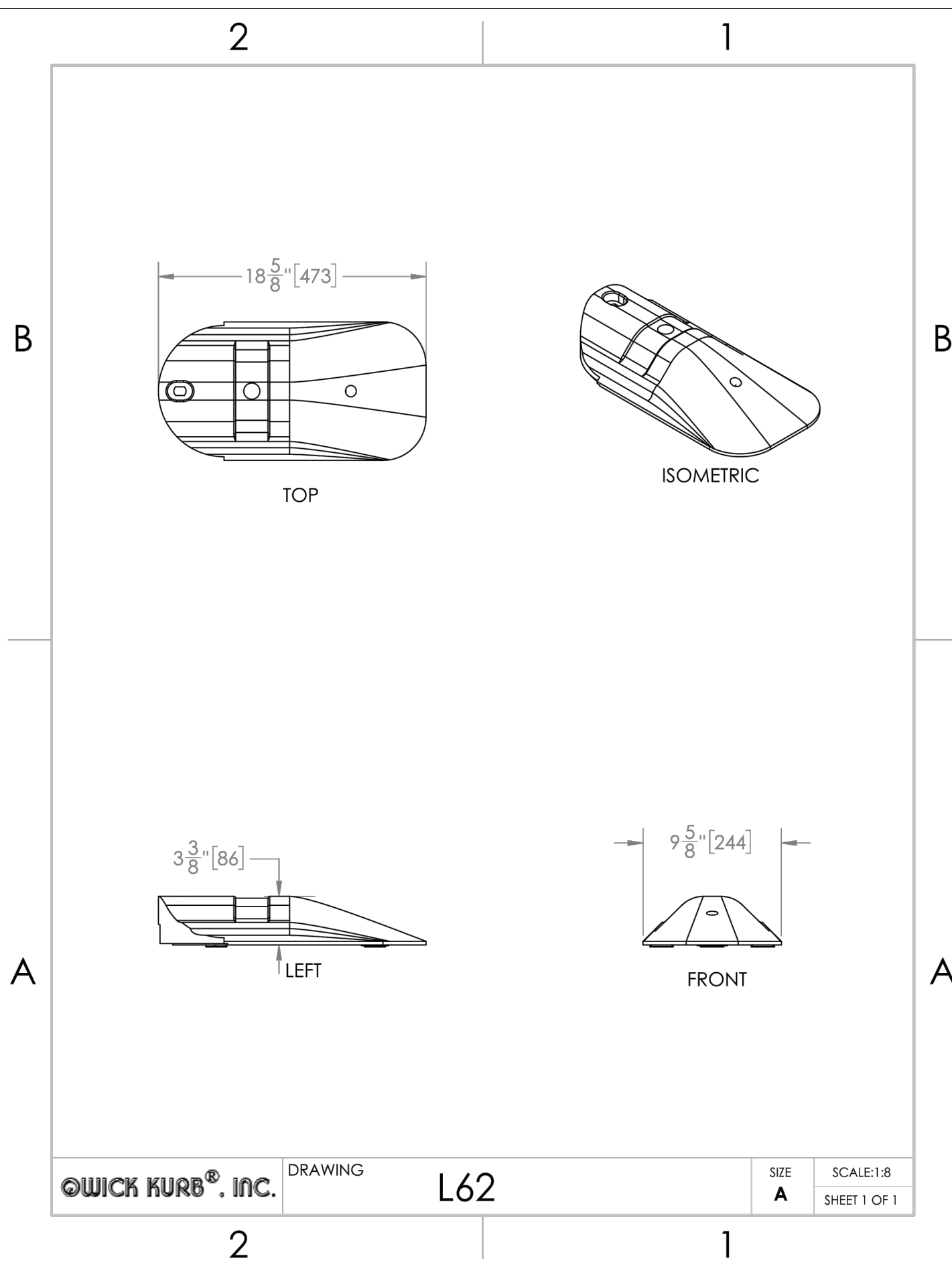
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
 PROJECT DETAILS

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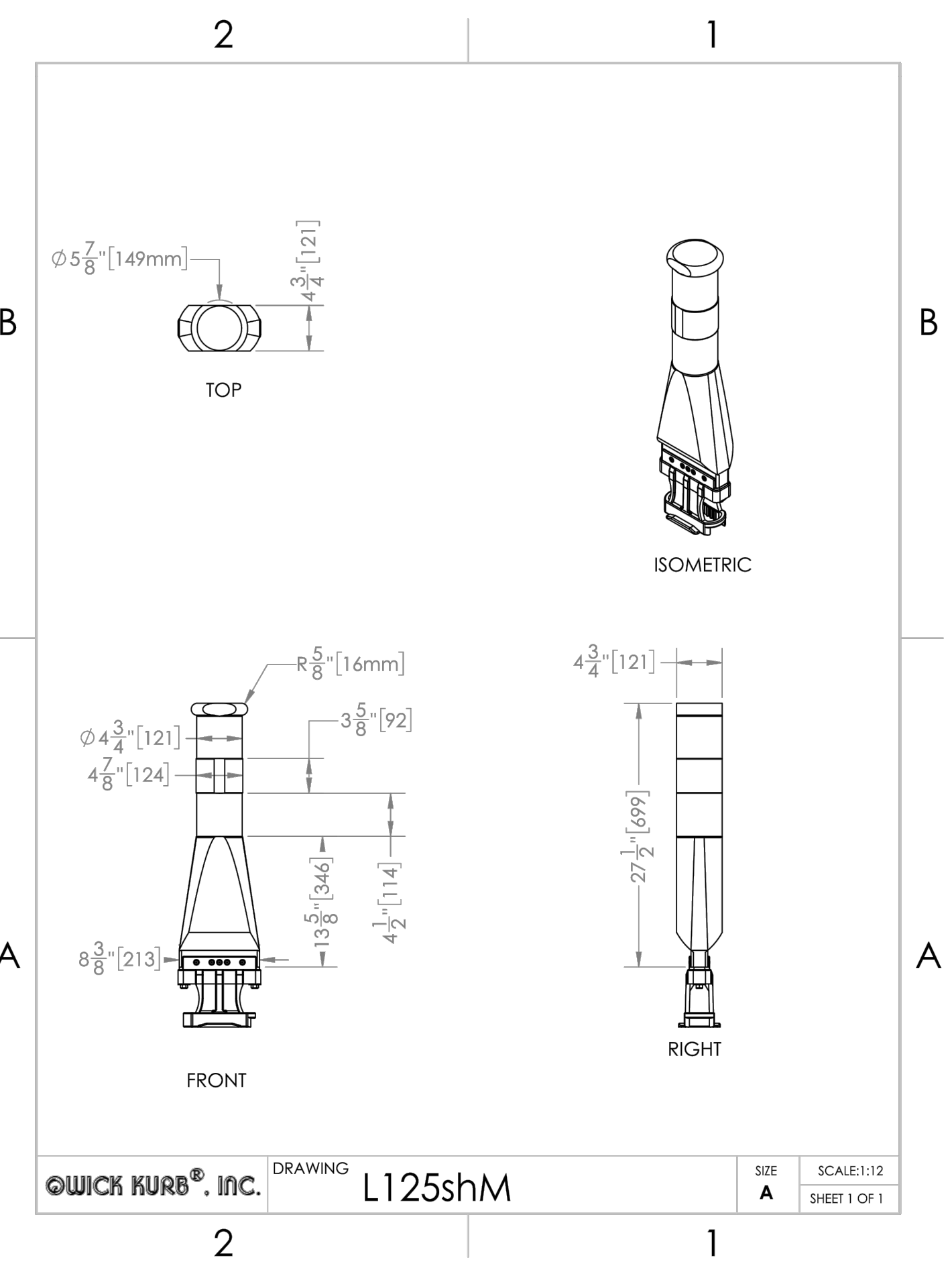
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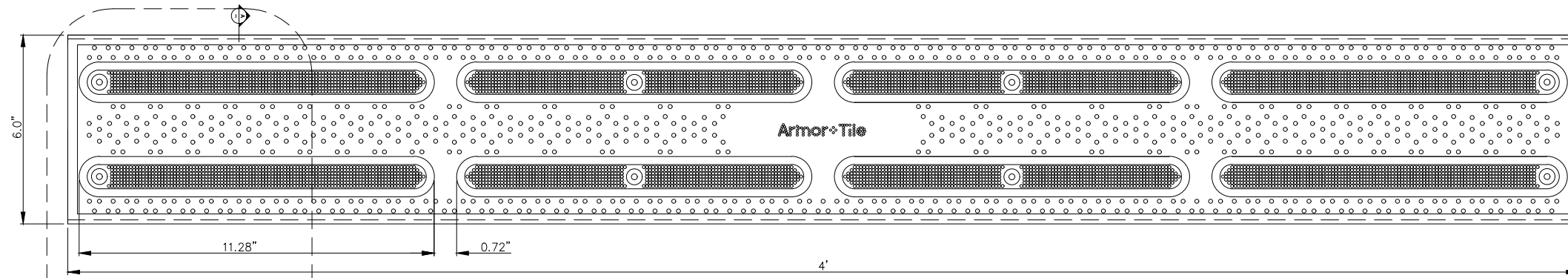
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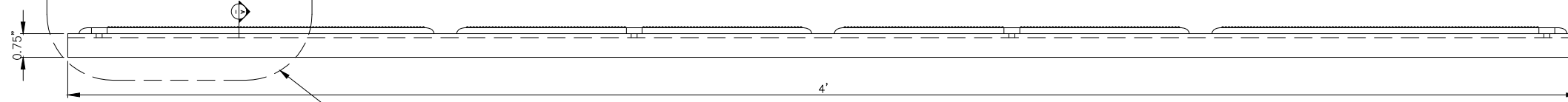
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| | | CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING MILLER ROAD CYCLE TRACK PROJECT DETAILS | |
| SCALE: NOT TO SCALE DRAWING No. 20230643-DT05 | CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8667 ANN ARBOR, MI 48106-8667 www.a2gov.org | REV. 1 2 3 | DESCRIPTION CITY REVIEW FINAL PLANS FINAL BID PLANS |
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| 3/6/24 | 3/13/24 | ENR | NEN |
| 4/9/24 | 4/9/24 | ENR | NEN |

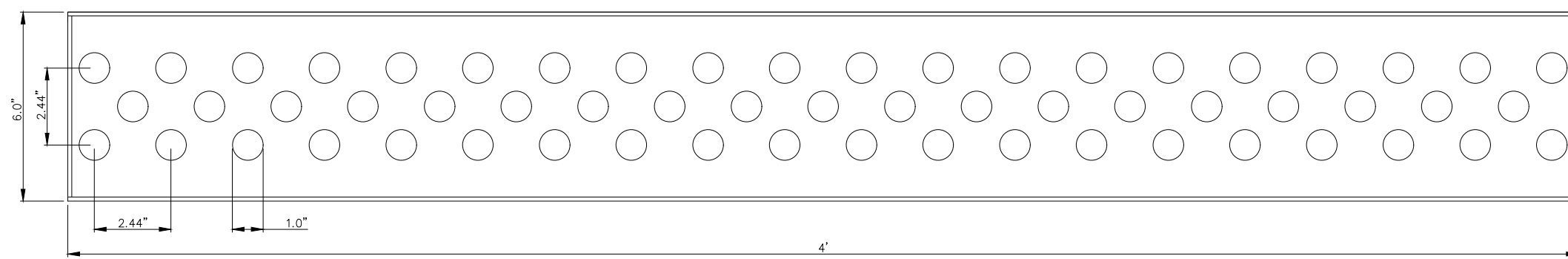
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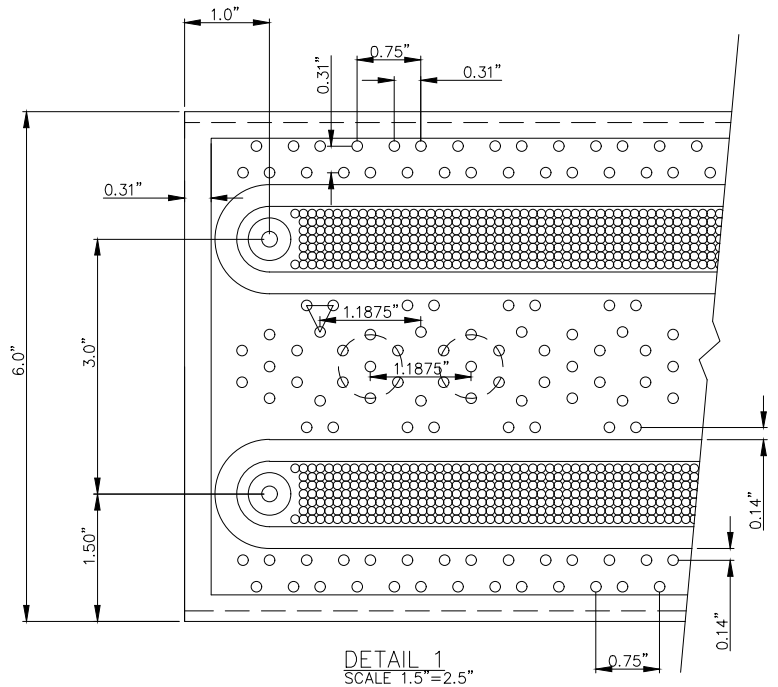
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SCALE 1.5"=2.5"



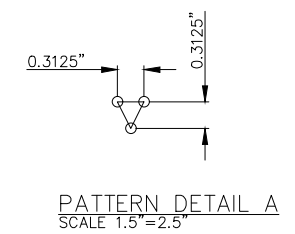
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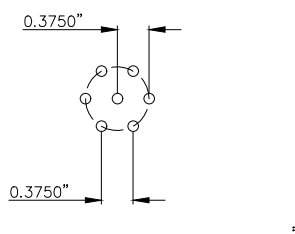
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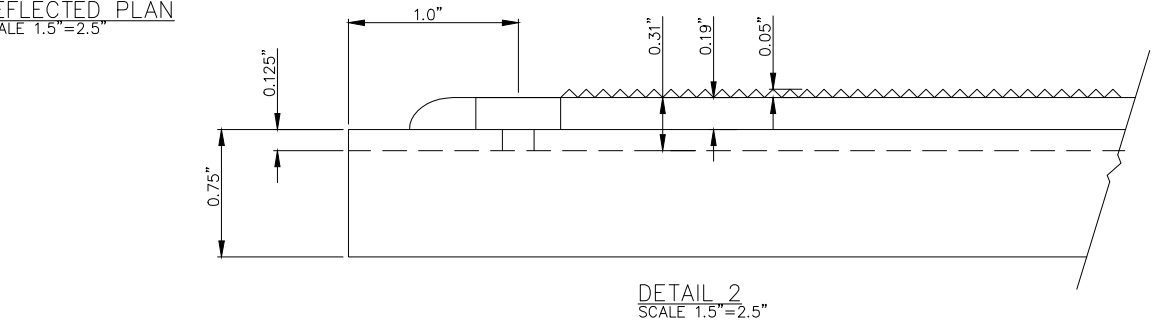
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SCALE 1.5"=2.5"



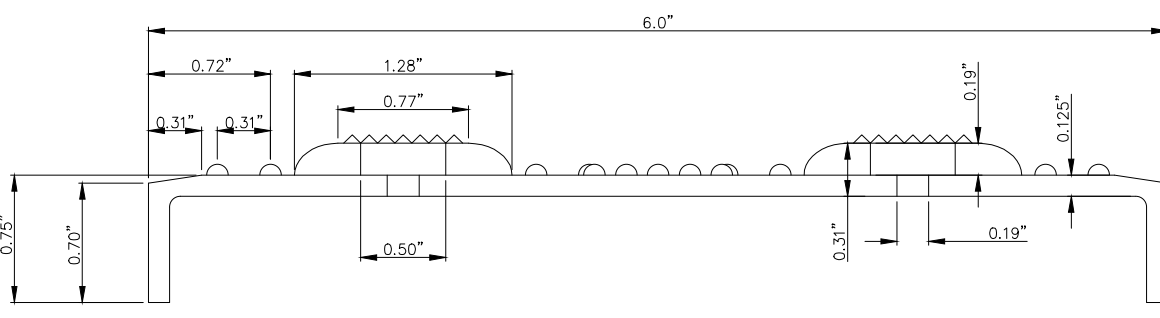
PATTERN DETAIL A
SCALE 1.5"=2.5"



PATTERN DETAIL B
SCALE 1.5"=2.5"



DETAIL 2
SCALE 1.5"=2.5"



SECTION A-A
SCALE 1.5"=2.5"

WWW.Armor-Tile.COM



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ANY ONE OR MORE OF THE FOLLOWING
PATENTS MAY APPLY
U. S. PATENT NO. 5,303,669, 5,775,835,
6,449,790, AND 6,895,622 BS
C.D.N. PATENT NO. 2,032,532, 2,070,984
US PATENTS PENDING.
© KENNETH E. SZEKELY

MATERIAL LIST

| # | DESCRIPTION | PART No: | QTY |
|---|------------------|-------------|-----|
| 1 | ARMOR-TILE | ADD-504 | 1 |
| 2 | EXPANSION ANCHOR | ADA-FAST | 8 |
| 3 | ARMOR-BOND | ADA-ADHE-EA | 1 |
| 4 | ARMOR-SEAL | ADA-SEAL-EA | 1 |

| No: | DATE | REVISION | APPR. |
|-----|------|----------|-------|
| | | | |

SCALE

| | | |
|----------|------|-----------|
| DESIGNED | BY | DATE |
| | K.S. | 08/90 |
| DRAWN | D.G. | 2/22/2006 |
| CHECKED | | |

PROJECT MANAGER

| | |
|----------------------------|-----------|
| TRADE | PART No: |
| DETECTABLE WARNING SURFACE | ADA-D-448 |

MATERIAL
VITRIFIED POLYMER COMPOSITE

SUBJECT
Armor-Tile™ ADA
SOUND AMPLIFYING DETECTABLE/TACTILE
WARNING SURFACE TILE

PROJECT
Armor-Tile™
DETECTABLE/TACTILE
DIRECTIONAL TILE
6" x 48" SURFACE APPLIED
BAR TILE
PLANS AND DETAILS

| | |
|-------------|----------|
| DRAWING No: | REV. No: |
| ADD-504 | 0 |



| ENR | ENR | ENR | ENR | ENR |
|-----------------|-------------|-------------|-------------|---------|
| 4/9/24 | 3/13/24 | 3/6/24 | DATE | CHECKED |
| FINAL BID PLANS | FINAL PLANS | CITY REVIEW | DESCRIPTION | REV. |
| 3 | 2 | 1 | | |

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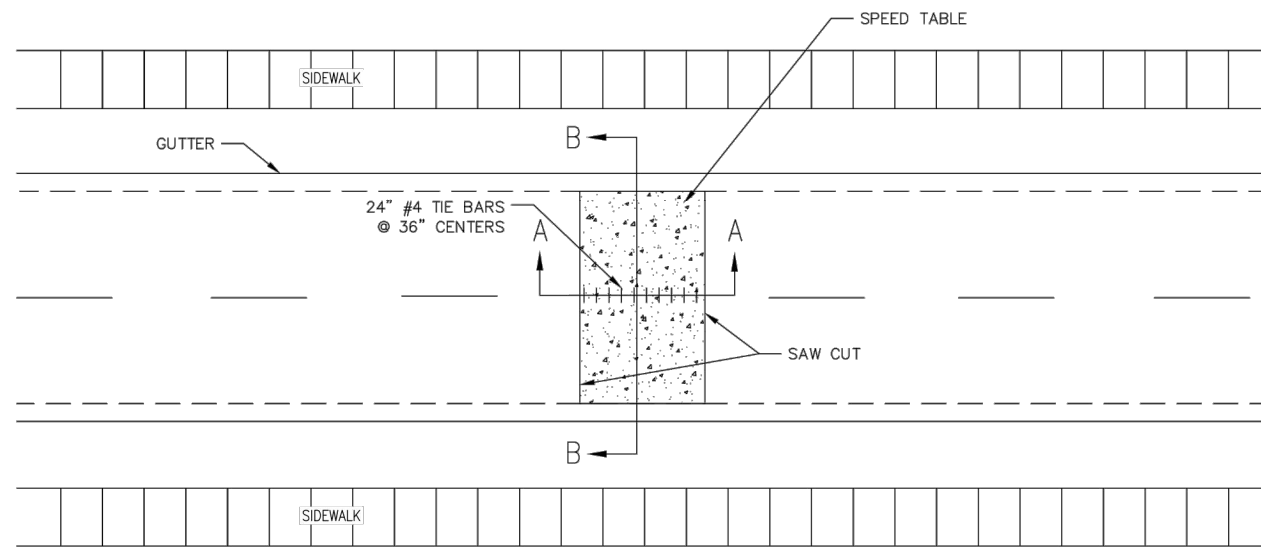


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
PROJECT DETAILS

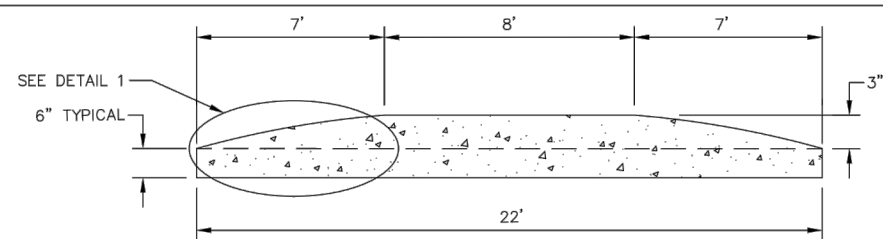
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SCALE: NOT TO SCALE
DRAWING No. 20230643-DT06

SHEET No.

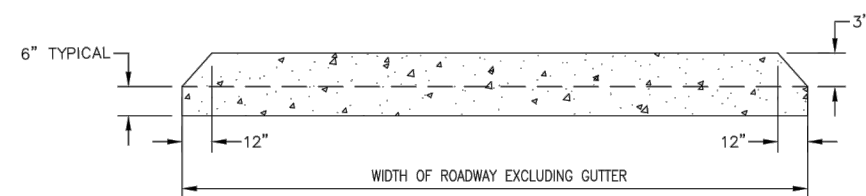
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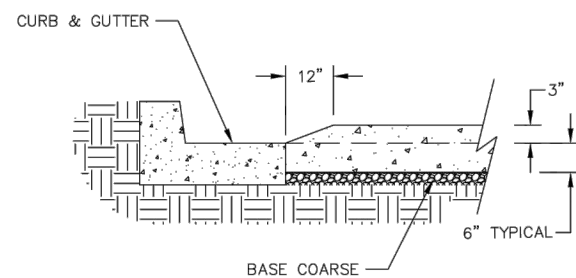
PLAN VIEW



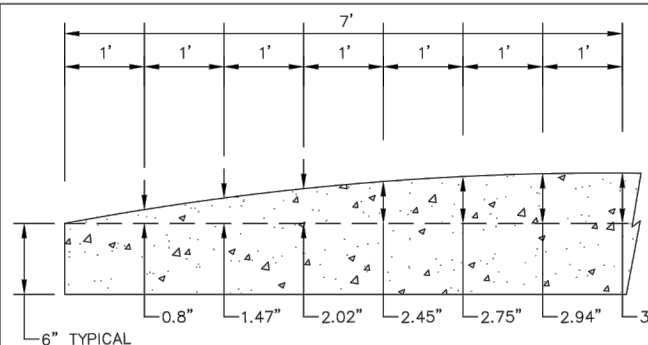
SECTION AA



SECTION BB



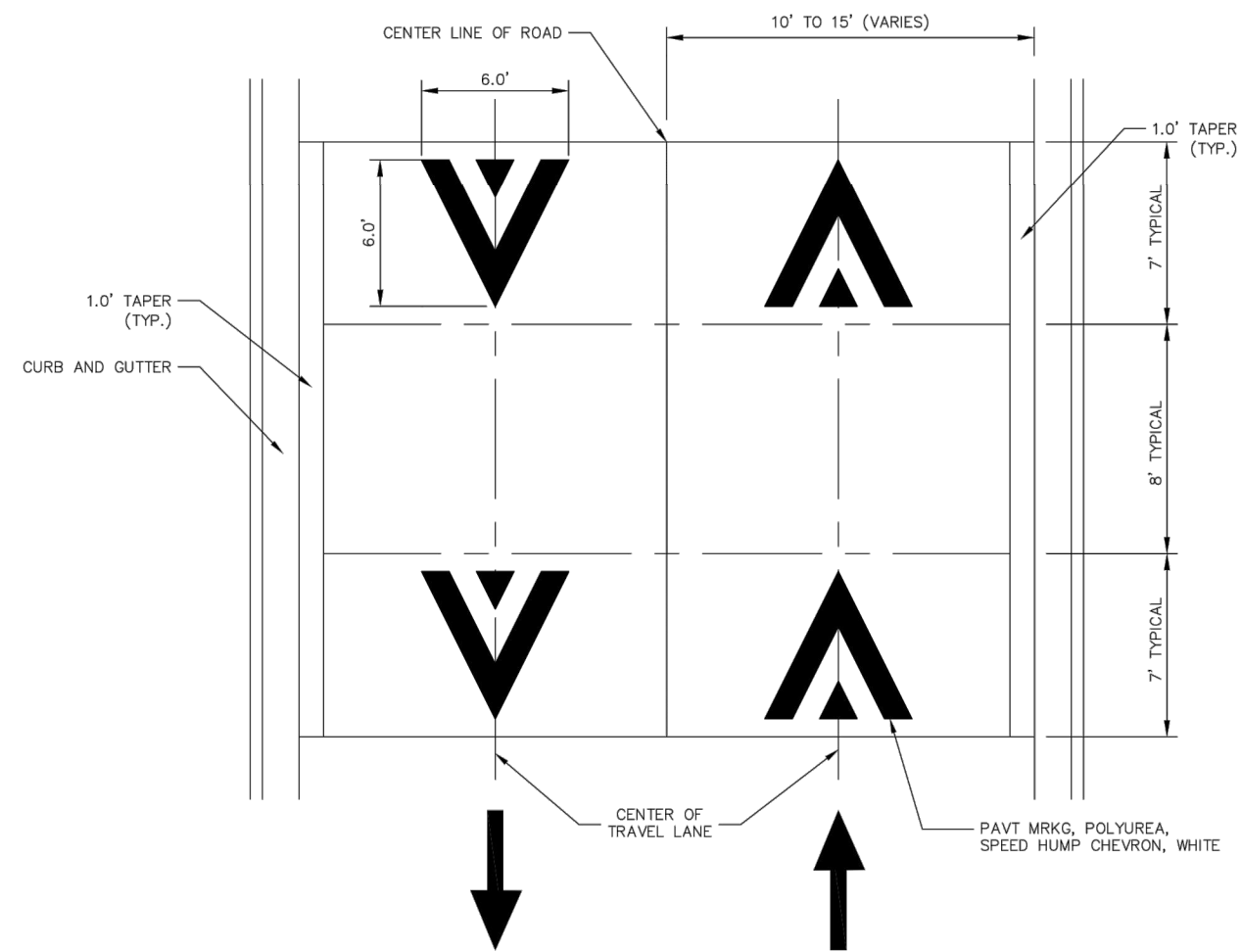
CURB DETAIL



DETAIL 1

CONCRETE SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

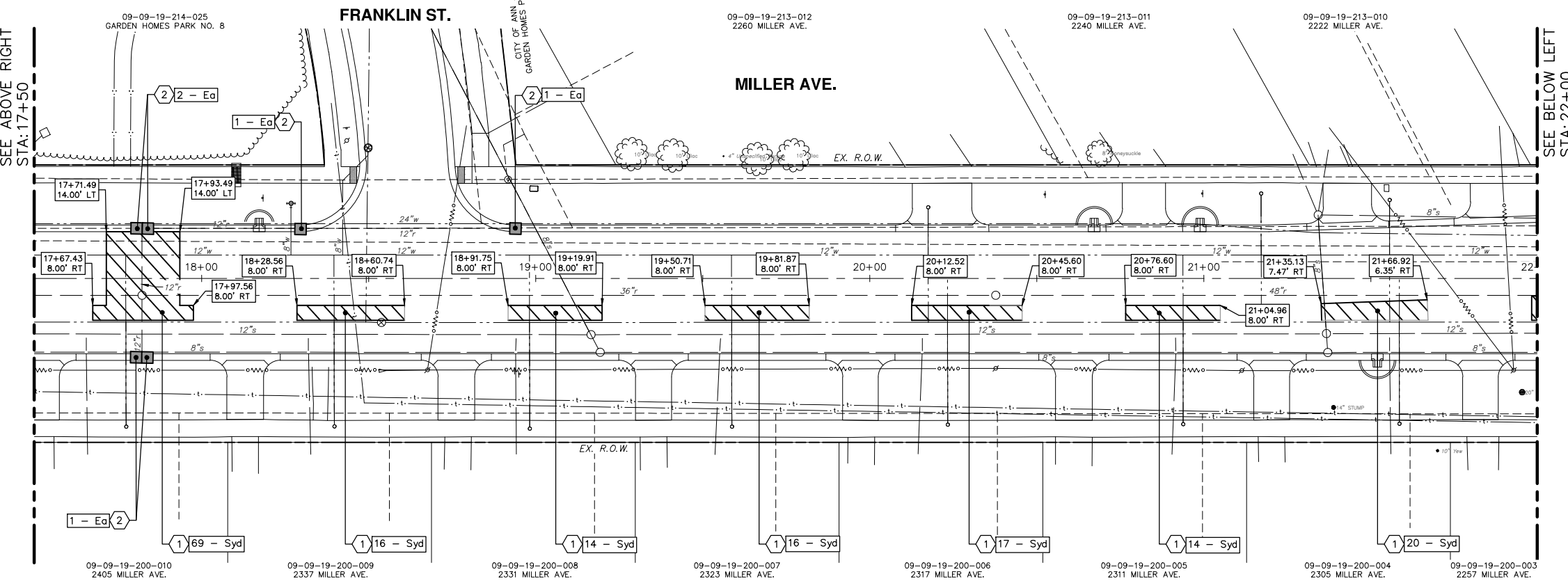
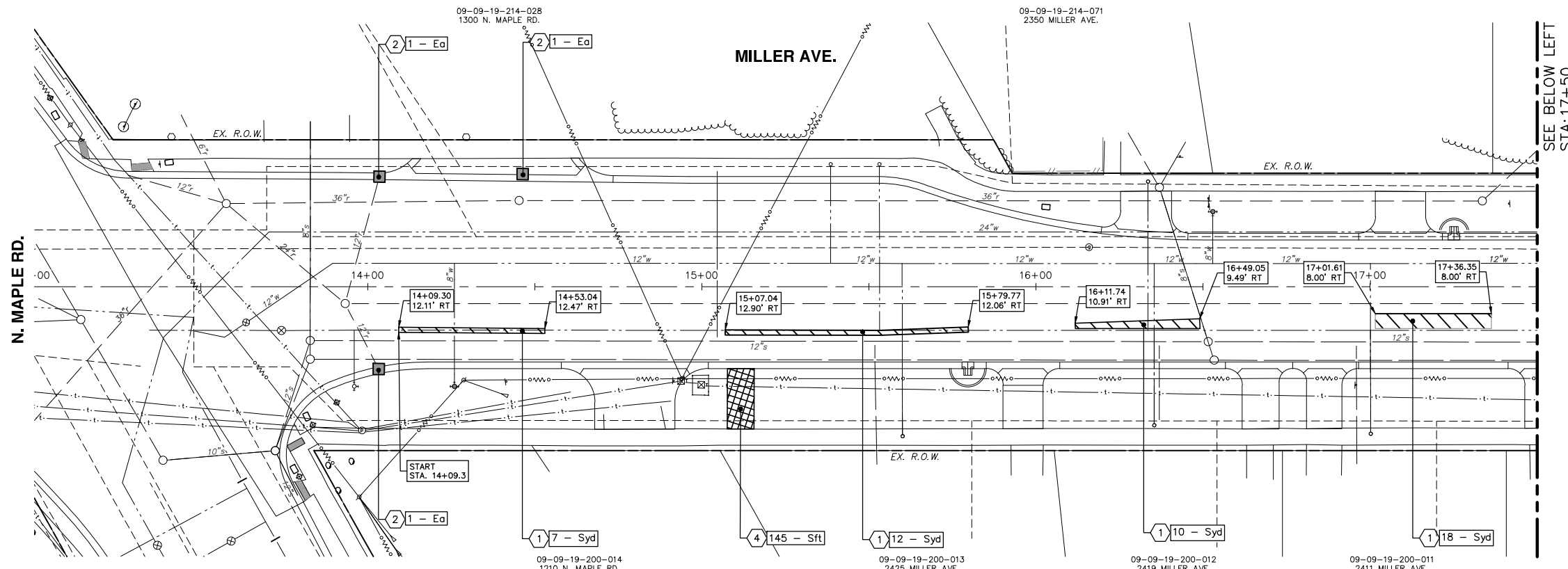
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PROJECT DETAILS
SCALE: NOT TO SCALE
DRAWING No. 20230643-DT07

SHEET No.

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| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Ea |
| 3 | | Concrete Pavl, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Cyd |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
REMOVAL PLAN SHEET

START (STA. 14+09) TO STA. 22+00

DRAWING No. 20230643-RM01

SHEET No. 108

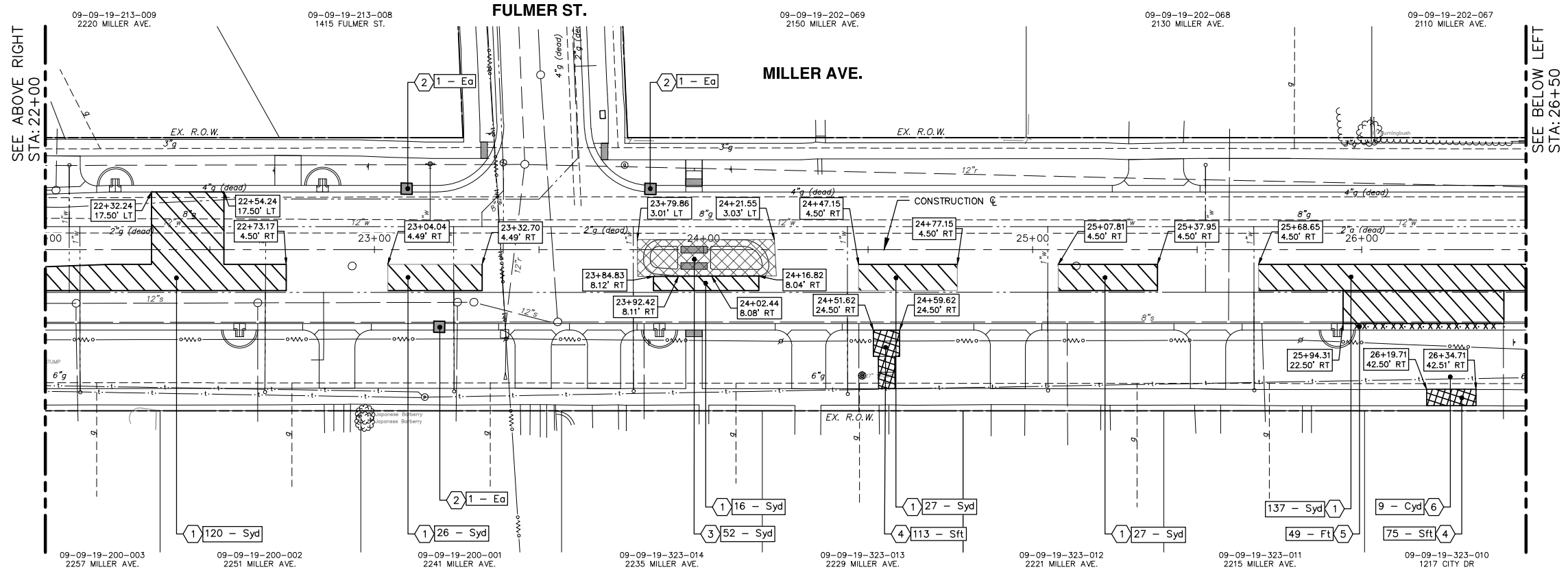
811
Know what's below.
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| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

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CITY OF ANN ARBOR MICHIGAN

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MILLER ROAD CYCLE TRACK

REMOVAL PLAN SHEET

STA. 22+00 TO STA. 31+00

811
Know what's below.
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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

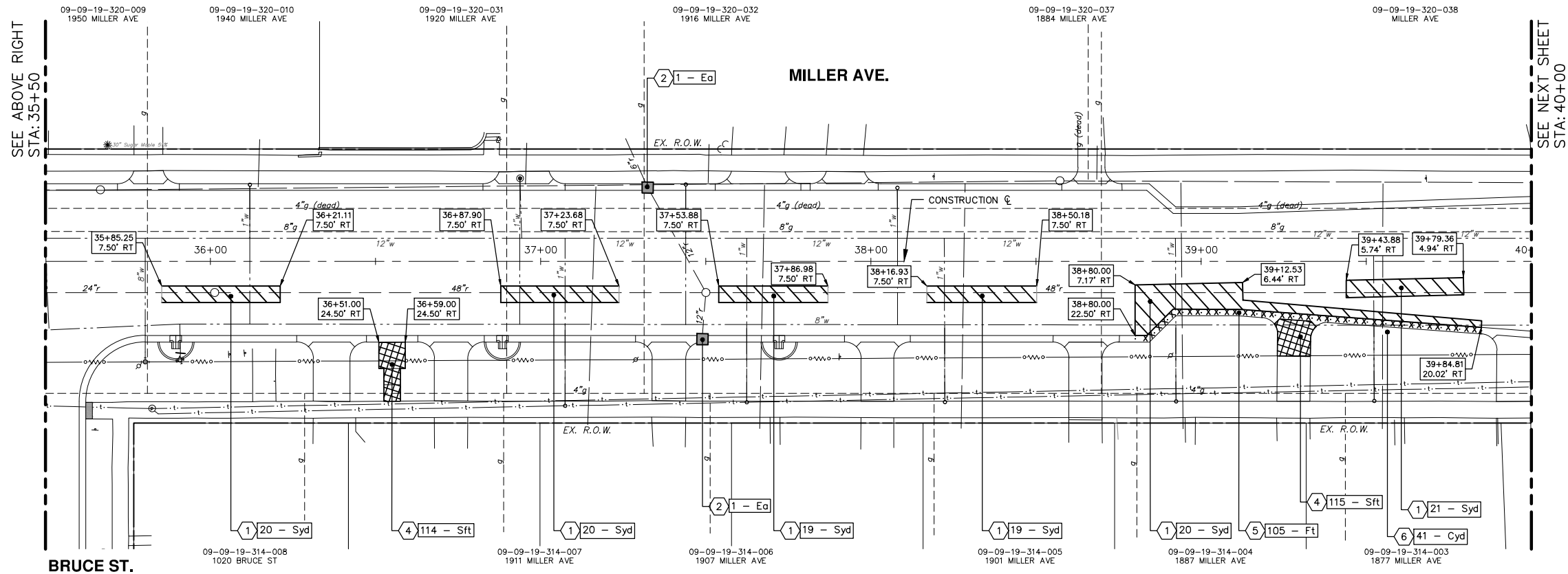
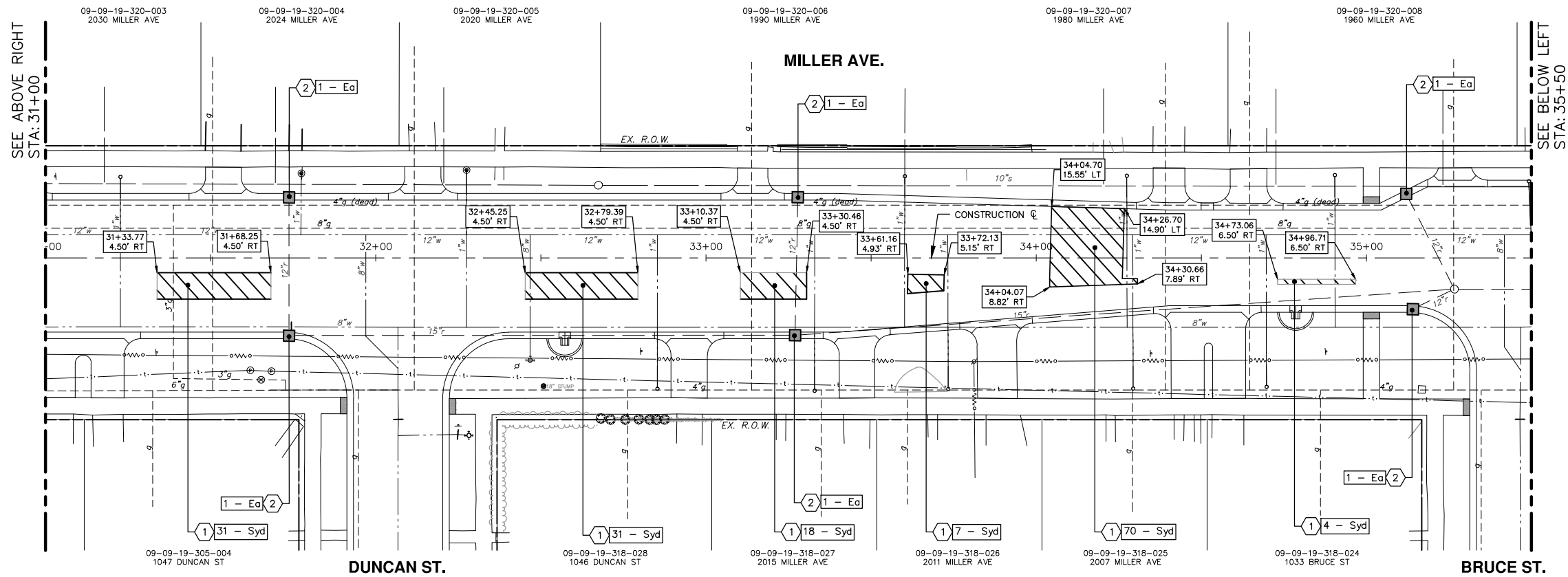
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SCALE: 1" = 20'


DRAWING NO. 20230643-RM02

SHEET No. 109

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| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Ea |
| 3 | | Concrete Pavl, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Cyd |



Know what's below.
Call Before you dig.

| | | | |
|------|---------|-------|---------|
| REV. | DATE | DRAWN | CHECKED |
| 3 | 4/9/24 | ENR | NEN |
| 2 | 3/13/24 | ENR | NEN |
| 1 | 3/6/24 | ENR | NEN |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING


MILLER ROAD CYCLE TRACK REMOVAL PLAN SHEET

STA. 31+00 TO STA. 40+00

SCALE: 1" = 20'

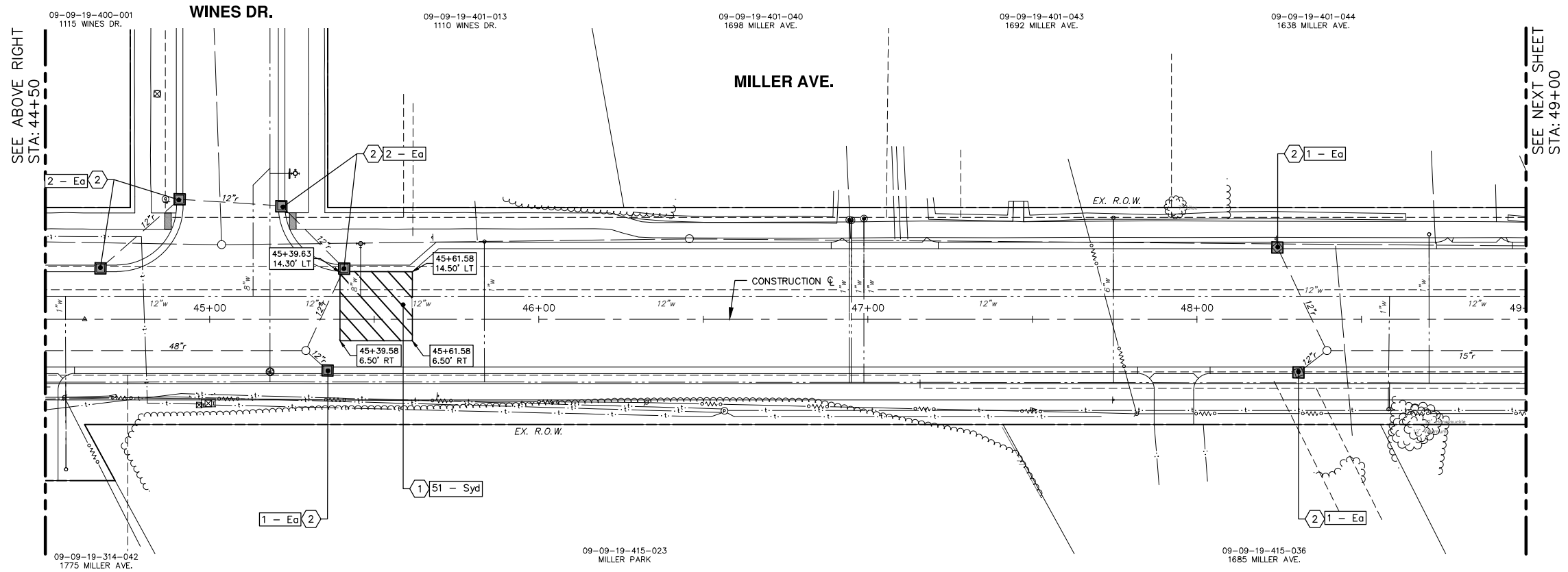
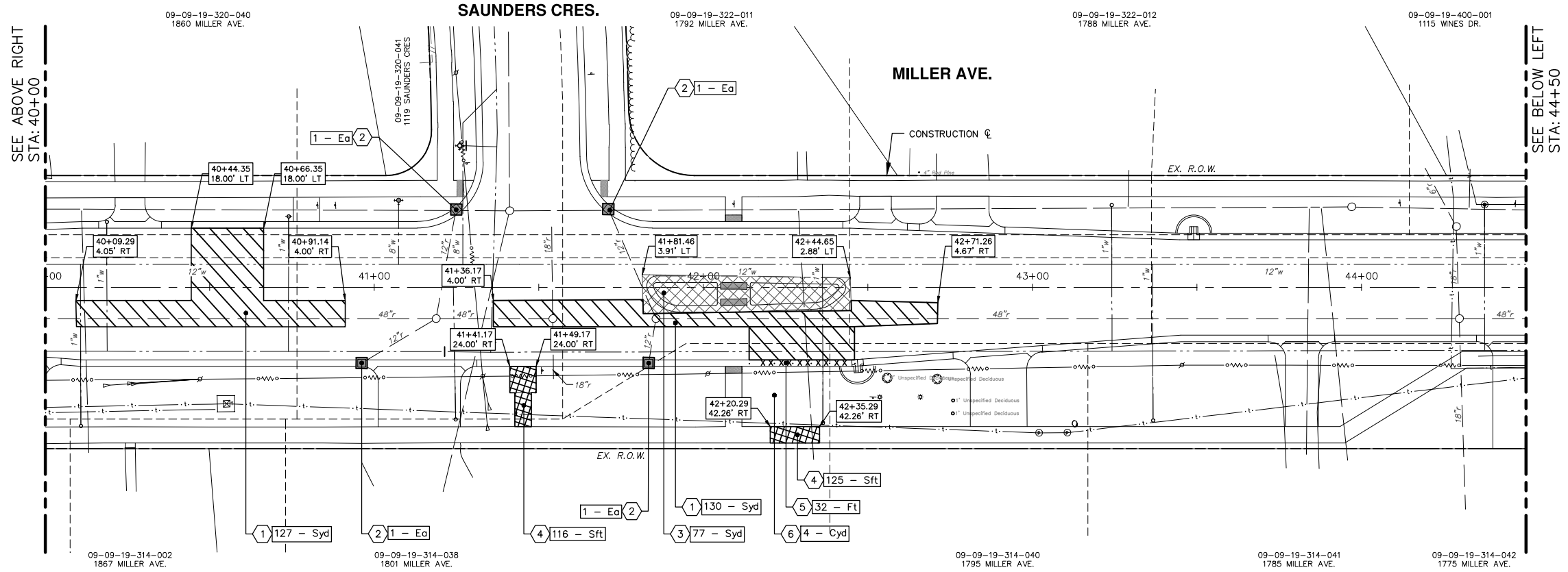
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SHEET No. **110**



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| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Ea |
| 3 | | Concrete Pavl, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Cyd |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

REMOVAL PLAN SHEET

STA. 40+00 TO STA. 49+00

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

| REV. | DATE | DRAWN | CHECKED |
|------|---------|-------|---------|
| 3 | 4/9/24 | ENR | NEN |
| 2 | 3/13/24 | ENR | NEN |
| 1 | 3/6/24 | ENR | NEN |

FINAL BID PLANS

FINAL PLANS

CITY REVIEW

DESCRIPTION

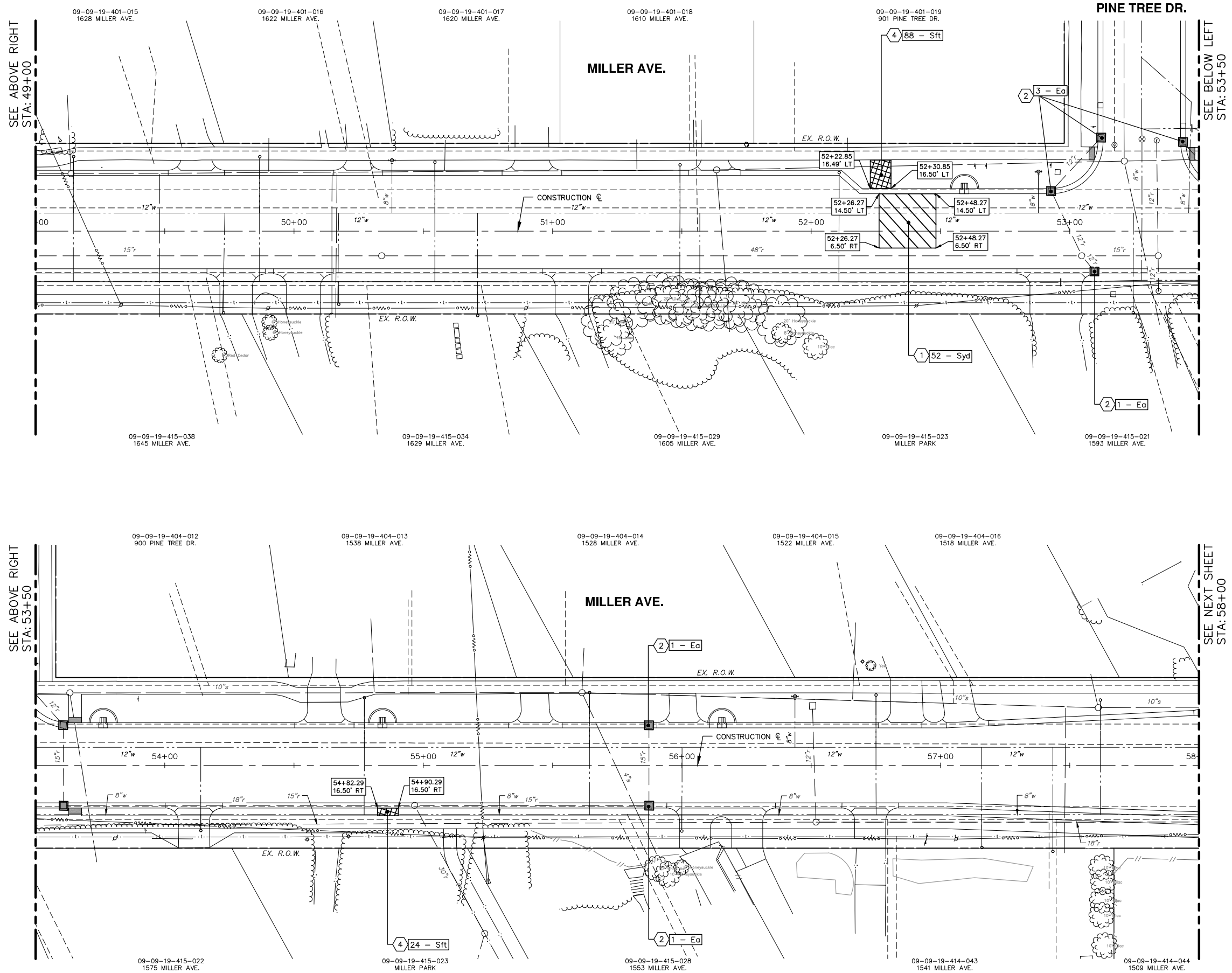
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 8667
ANN ARBOR MI 48106-8667
www.a2gov.org

SCALE: 1" = 20'

DRAWING No. 20230643-RM04

SHEET No. 111

V:\202306\20230643\Sheets\rm05.dwg Dwg Created: 12-Mar-24 - _o2_standard bw.sib - Plot Date: 5-Apr-24



SEE ABOVE RIGHT
STA: 49+00

SEE BELOW LEFT
STA: 53+50

SEE ABOVE RIGHT
STA: 53+50

SEE NEXT SHEET
STA: 58+00

| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Ea |
| 3 | | Concrete Pavl, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Syd |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
REMOVAL PLAN SHEET
STA. 49+00 TO STA. 58+00

SCALE: 1" = 20'
DRAWING No. 20230643-RM05
SHEET No.

112

| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

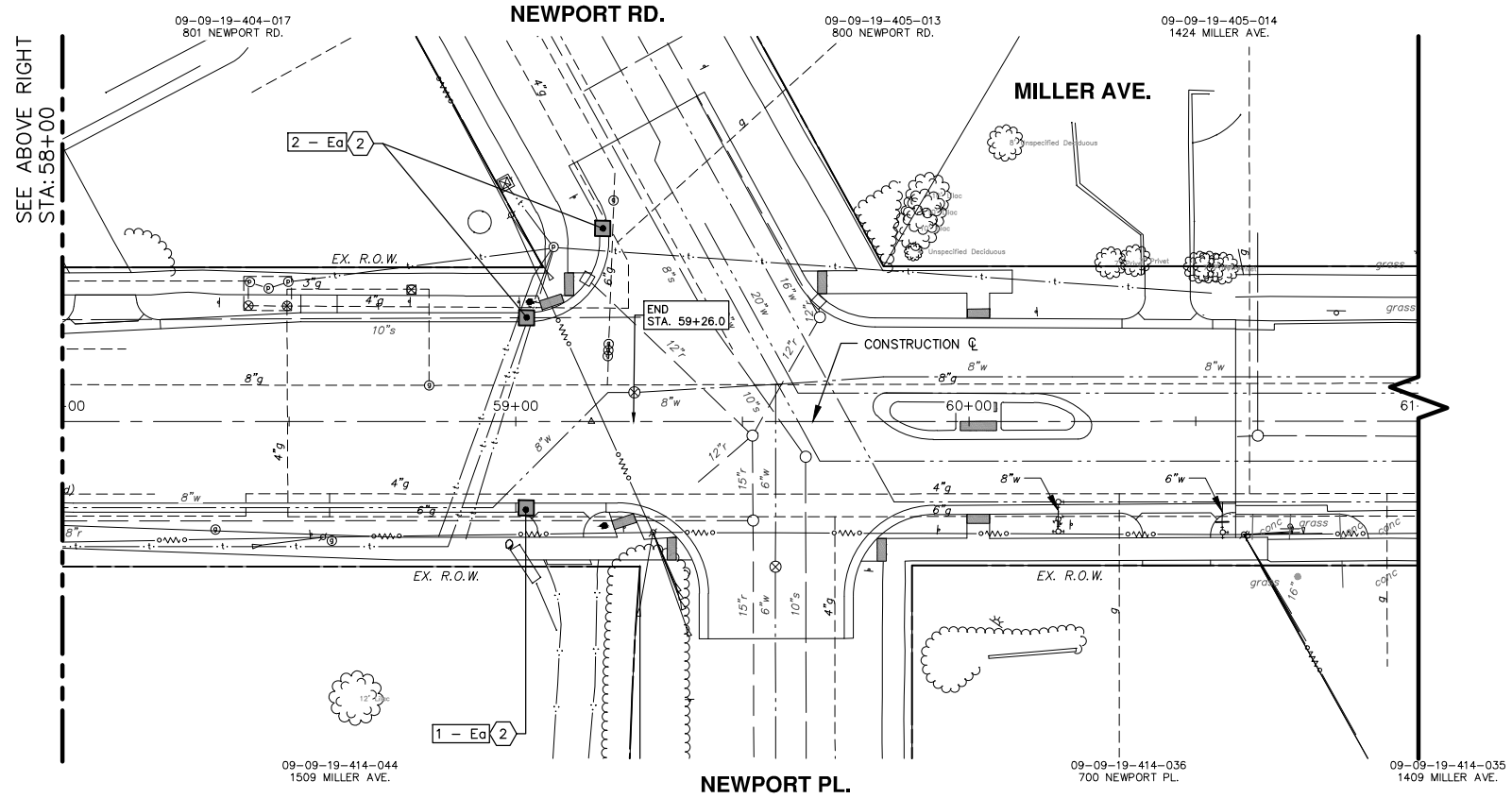
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8667
 ANN ARBOR MI 48108-8667
 734-794-4410
 www.aagov.org



| | | | | |
|-----|-----|---------|-----|-----|
| ENR | NEN | 4/9/24 | ENR | NEN |
| ENR | NEN | 3/13/24 | ENR | NEN |
| ENR | NEN | 3/6/24 | ENR | NEN |

Know what's below.
 Call Before you dig.

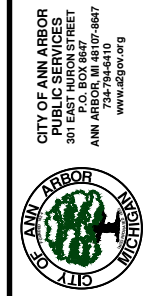
V:\202306\20230643\Sheets\rm06.dwg Dwg Created: 13-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Es |
| 3 | | Concrete Pavt, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Cyt |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
 REMOVAL PLAN SHEET
 STA. 58+00 TO END (STA. 59+26)

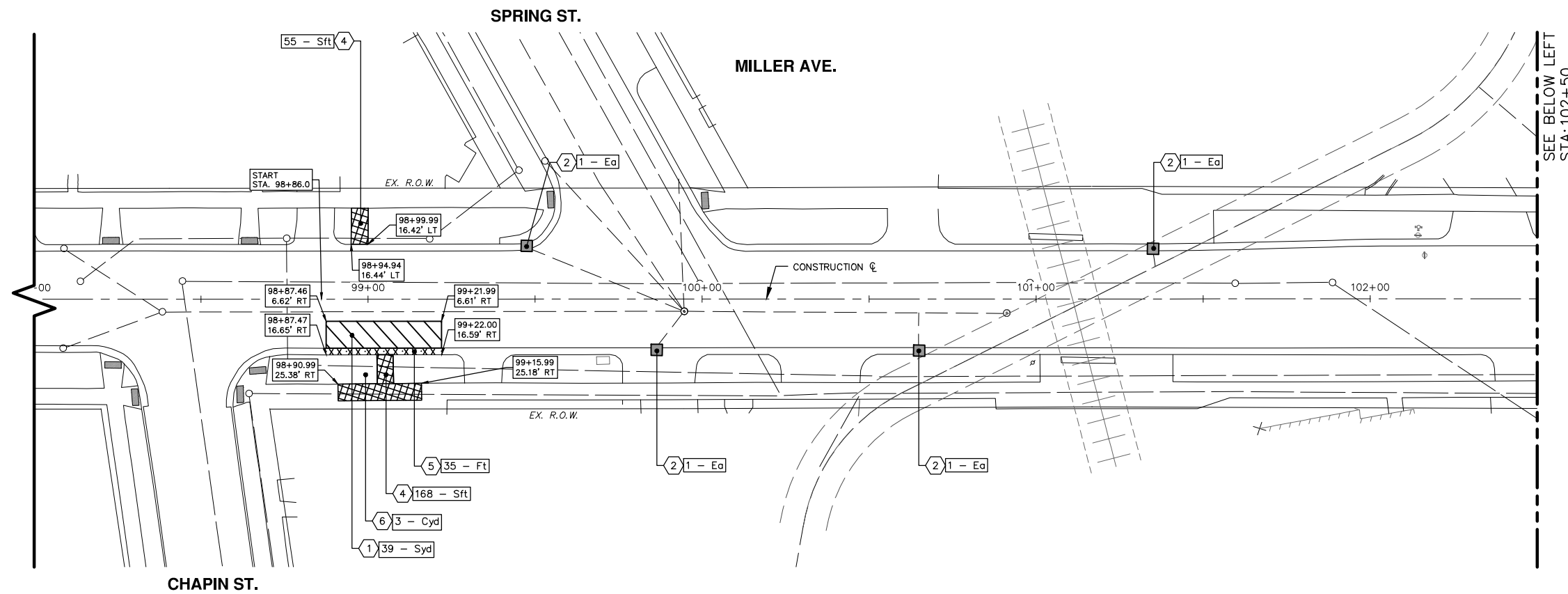
SCALE: 1" = 20'
 DRAWING No. 20230643-RM06
 SHEET No.



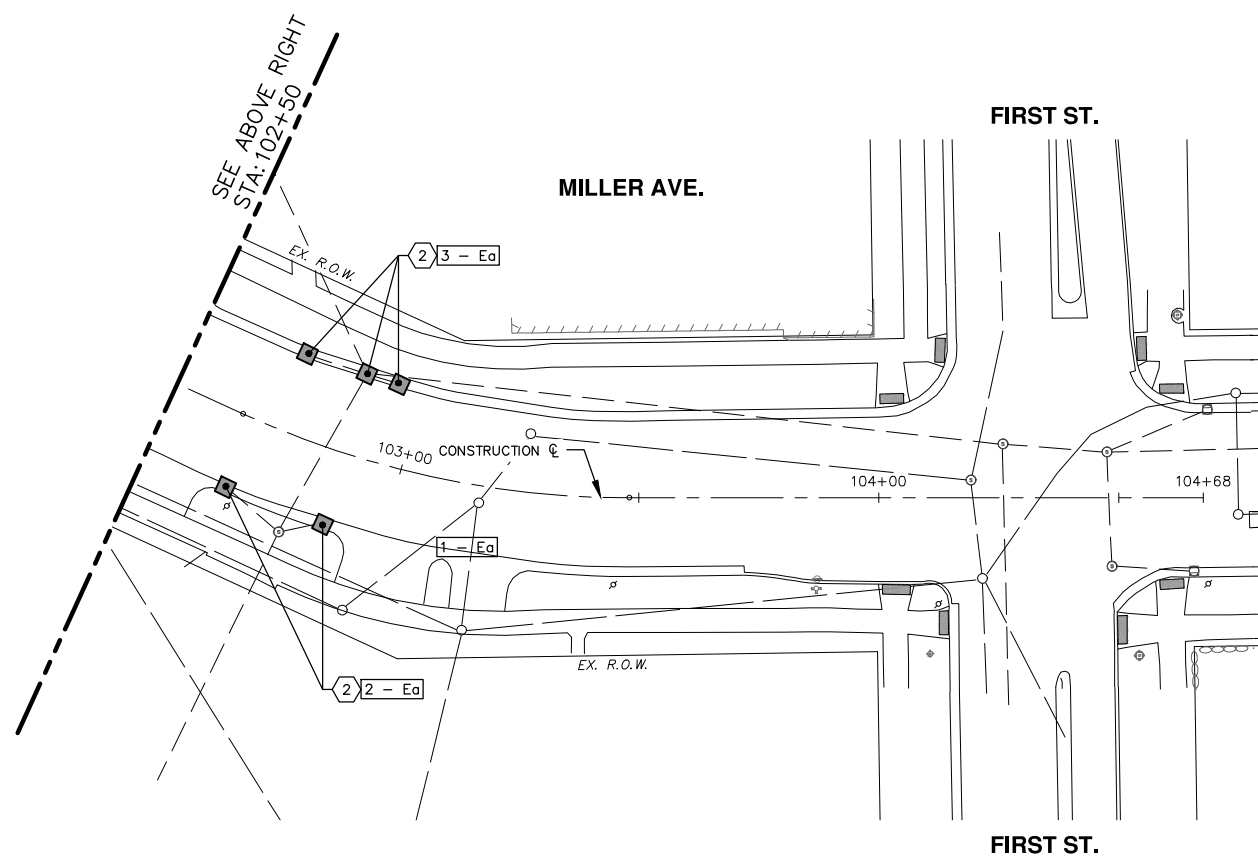
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |



V:\202306\20230643\Sheets\rm07.dwg Dwg Created: 19-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



SEE BELOW LEFT
STA: 102+50



SEE ABOVE RIGHT
STA: 102+50

| CONSTRUCTION KEY | | |
|------------------|---------------|--|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | HMA Surface, Rem - Syd |
| 2 | | Erosion Control, Inlet Protection, Fabric Drop - Ea |
| 3 | | Concrete Pavl, Any Thickness, Rem - Syd |
| 4 | | Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem - Sft |
| 5 | | Curb, Gutter, Curb and Gutter, Any Type, Rem - Ft |
| 6 | | Earth Excavation - Cyd |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
REMOVAL PLAN SHEET

START (STA. 98+86) TO P.O.E. (STA. 104+07)

SCALE: 1" = 20'
DRAWING No. 20230643-RM07

SHEET No. 114

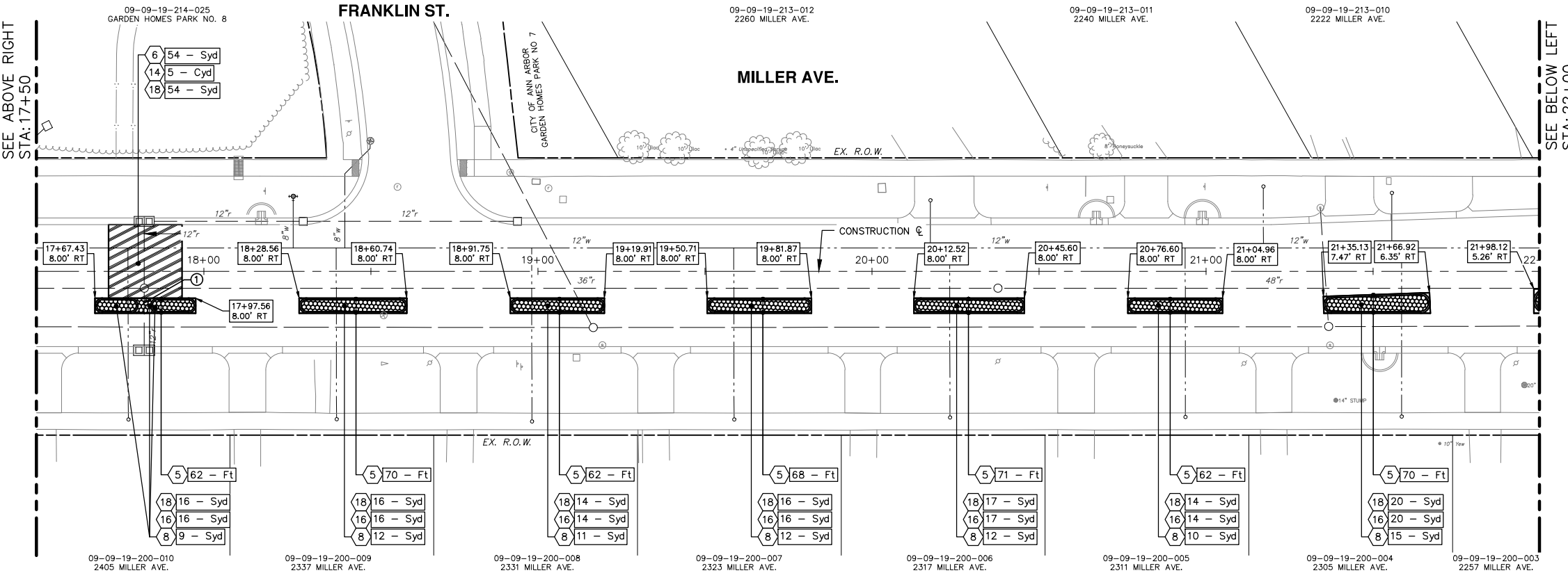
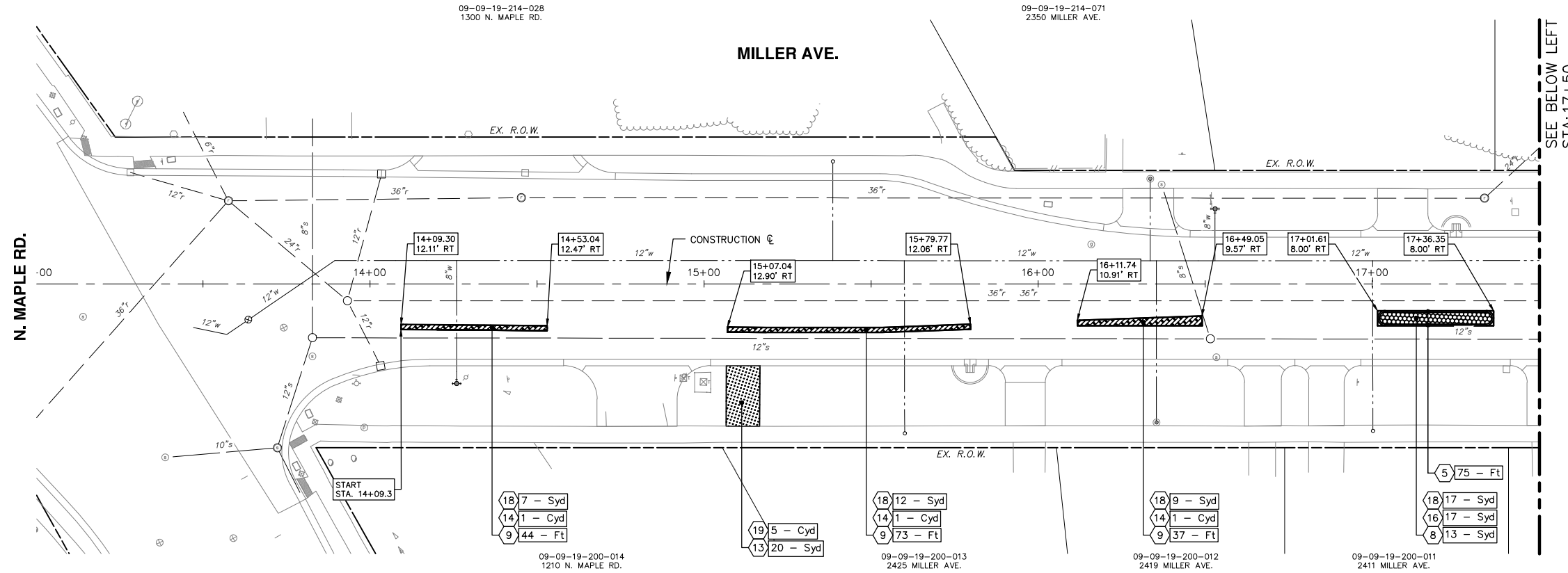
811
Know what's below.
Call Before you dig.

| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-8667
ANN ARBOR
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CITY OF ANN ARBOR MICHIGAN

V:\202306\20230643\Sheets\p01.dwg Dwg Created: 12-Mar-24 - a2 standard bw.stb - Plot Date: 5-Apr-24



NOTES:
 ① CONCRETE PAVEMENT TO BE FLUSH WITH HMA ROADWAY.

| CONSTRUCTION KEY | | |
|------------------|---------------|---|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Boltard - MASH LT25SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7" HMA (Ton) - SEE HMA APPLICATION TABLE, (TYP.) |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - Sft |
| 5 | | Conc. Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc. Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc. Curb and Gutter, Monolithic - Ft |
| 10 | | Conc. Sidewalk, 4 in. - Sft |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - Sft |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Syd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Syd |
| 20 | | 12" SUBBASE PAID AS: Subbase, CIP - Syd |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

CONSTRUCTION PLAN SHEET

START (STA. 14+09) TO STA. 22+00

SCALE: 1" = 20'

DRAWING NO. 20230643-PL01

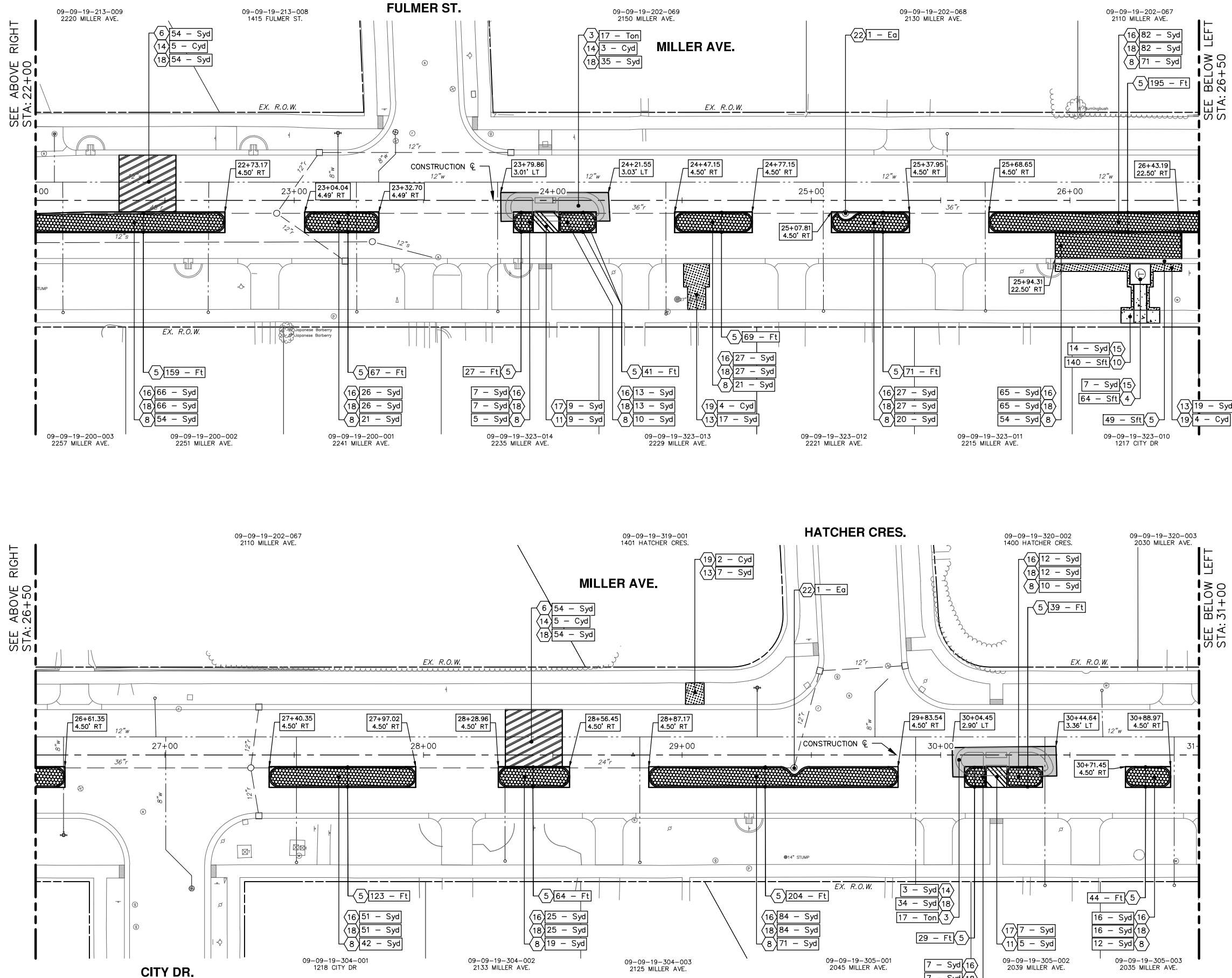
SHEET No.

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

| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

CITY OF ANN ARBOR
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 ANN ARBOR: 734-764-4410
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V:\202306\20230643\Sheets\p02.dwg Dwg Created: 20-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



SEE ABOVE RIGHT
STA: 22+00

SEE ABOVE RIGHT
STA: 26+50

SEE BELOW LEFT
STA: 26+50

SEE BELOW LEFT
STA: 31+00

NOTES:

- STRUCTURES MAY BE LOCATED IN CURB LINE AND REQUIRE HAND FORMING OF THE CURB AROUND THE STRUCTURE. THESE EYEBROWS SHOWN AROUND STRUCTURES ARE NOT TO SCALE AND EXACT LOCATIONS SHALL BE FIELD VERIFIED. IF STRUCTURES ARE NOT FOUND TO BE WITHIN THE PROPOSED CURB LINE, EYEBROWS SHALL BE ELIMINATED AND CURB SHALL CARRY STRAIGHT THROUGH.

| KEY No. | PROPOSED WORK | DESCRIPTION |
|---------|---------------|---|
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Bolard - MASH L125SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7\"/> |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - Sft |
| 5 | | Conc. Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc. Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc. Curb and Gutter, Monolithic - Ft |
| 10 | | Conc. Sidewalk, 4 in. - Sft |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - Sft |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Cyd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Cyd |
| 20 | | 12\"/> |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR MI 48108-8667
www.a3gov.org

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

| REV. | DATE | DESCRIPTION |
|------|---------|-----------------|
| 3 | 4/9/24 | FINAL BID PLANS |
| 2 | 3/13/24 | FINAL PLANS |
| 1 | 3/6/24 | CITY REVIEW |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
CONSTRUCTION PLAN SHEET

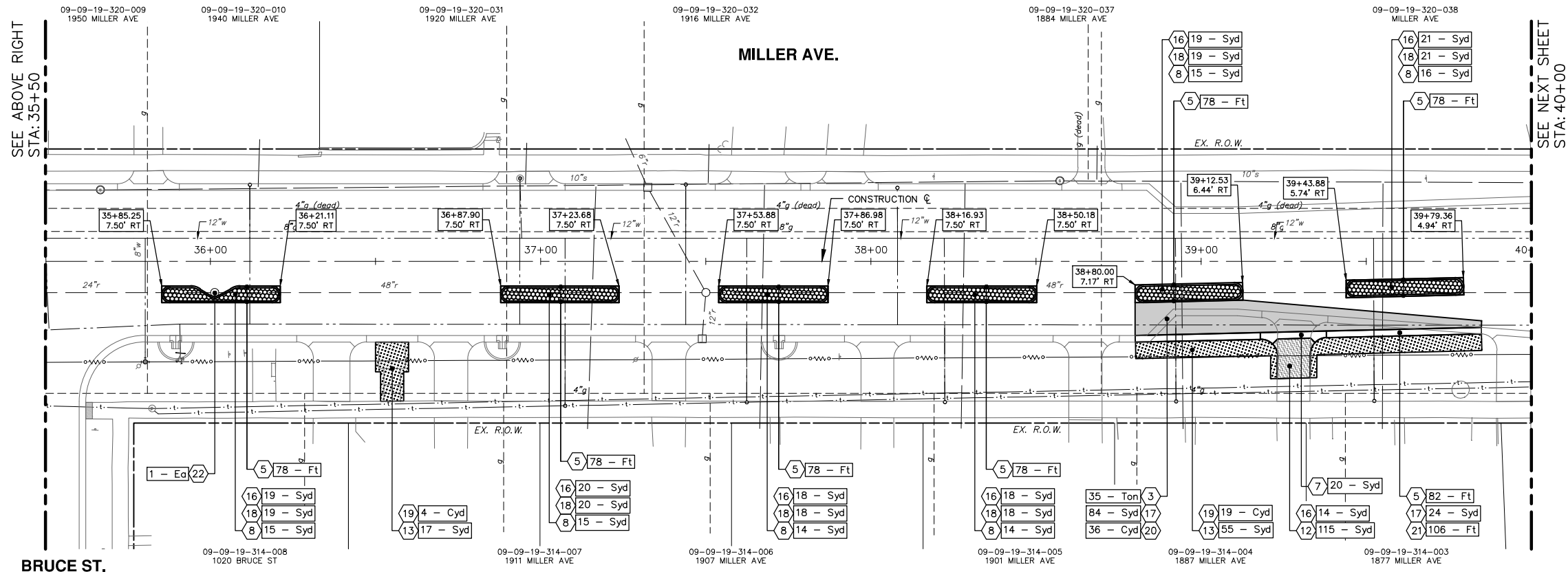
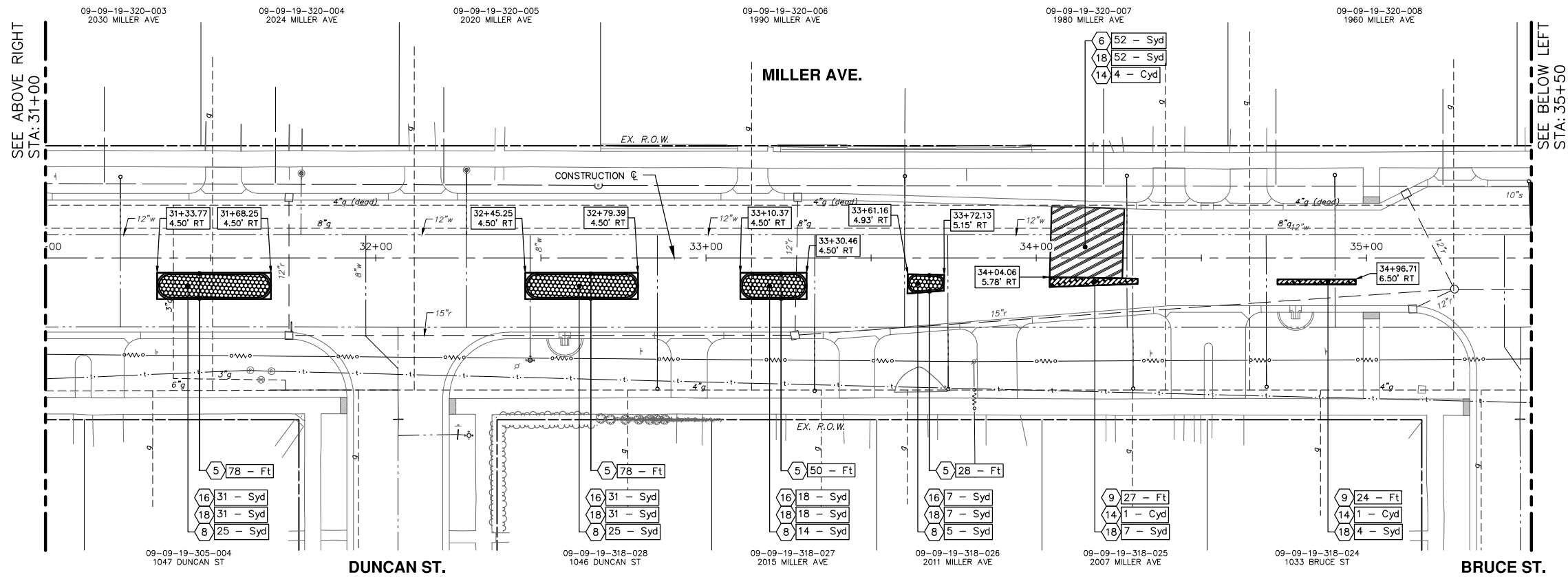
STA. 22+00 TO STA. 31+00

SCALE: 1" = 20'

DRAWING NO. 20230643-PL02

SHEET No.

V:\202306\20230643\Sheets\p03.dwg Dwg Created: 19-Mar-24 - _a2 standard bw.sib - Plot Date: 5-Apr-24



NOTES:

- SEE DETAIL SD-DS-1 FOR DRIVEWAY CONSTRUCTION DETAIL.
- STRUCTURES MAY BE LOCATED IN CURB LINE AND REQUIRE HAND FORMING OF THE CURB AROUND THE STRUCTURE. THESE EYEBROWS SHOWN AROUND STRUCTURES ARE NOT TO SCALE AND EXACT LOCATIONS SHALL BE FIELD VERIFIED. IF STRUCTURES ARE NOT FOUND TO BE WITHIN THE PROPOSED CURB LINE, EYEBROWS SHALL BE ELIMINATED AND CURB SHALL CARRY STRAIGHT THROUGH.

CONSTRUCTION KEY

| KEY No. | PROPOSED WORK | DESCRIPTION |
|---------|---------------|---|
| 1 | | DS-Continuous Base Mid Span L60 - Ea AND DS-Big Ballard - MASH L125SHM - Ea |
| 2 | | DS-Continuous Base Front Span L61 - Ea AND DS-Continuous Base Rear Span L62 - Ea |
| 3 | | 7\"/> |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - SRT |
| 5 | | Conc, Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc, Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS-Conc, Curb and Gutter, Monolithic - Ft |
| 10 | | Conc, Sidewalk, 4 in. - SRT |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - SRT |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Cyd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Cyd |
| 20 | | 12\"/> |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

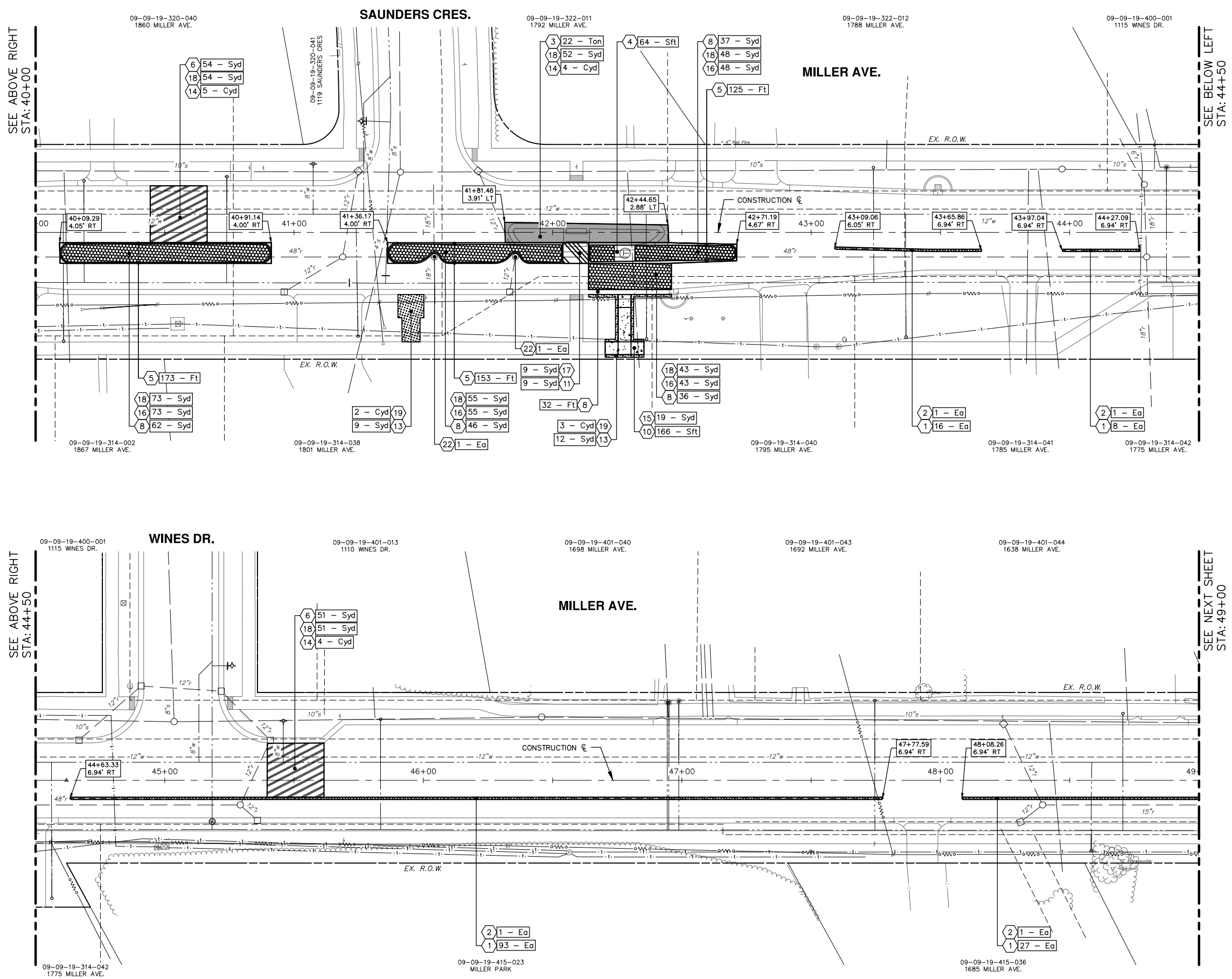
CITY OF ANN ARBOR
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
CONSTRUCTION PLAN SHEET

SCALE: 1" = 20'
DRAWING NO. 20230643-PL03
SHEET NO.

V:\202306\20230643\Sheets\p04.dwg Dwg Created: 18-Mar-24 Plot Date: 5-Apr-24



SEE ABOVE RIGHT
STA: 40+00

SEE BELOW LEFT
STA: 44+50

SEE ABOVE RIGHT
STA: 44+50

SEE NEXT SHEET
STA: 49+00

NOTES:

- STRUCTURES MAY BE LOCATED IN CURB LINE AND REQUIRE HAND FORMING OF THE CURB AROUND THE STRUCTURE. THESE EYEBROWS SHOWN AROUND STRUCTURES ARE NOT TO SCALE AND EXACT LOCATIONS SHALL BE FIELD VERIFIED. IF STRUCTURES ARE NOT FOUND TO BE WITHIN THE PROPOSED CURB LINE, EYEBROWS SHALL BE ELIMINATED AND CURB SHALL CARRY STRAIGHT THROUGH.

CONSTRUCTION KEY

| KEY No. | PROPOSED WORK | DESCRIPTION |
|---------|---------------|---|
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Boltard - MASH L125SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7' HMA (Ton) - SEE HMA APPLICATION TABLE, (TYP.) |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - Sft |
| 5 | | Conc, Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc, Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc, Curb and Gutter, Monolithic - Ft |
| 10 | | Conc, Sidewalk, 4 in. - Sft |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - Sft |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Syd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Syd |
| 20 | | 12" SUBBASE PAID AS: Subbase, CIP - Syd |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR MI 48106-0867
www.a3gov.org

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

| REV. | DATE | DESCRIPTION |
|------|---------|-----------------|
| 3 | 4/9/24 | FINAL BID PLANS |
| 2 | 3/13/24 | FINAL PLANS |
| 1 | 3/6/24 | CITY REVIEW |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
CONSTRUCTION PLAN SHEET

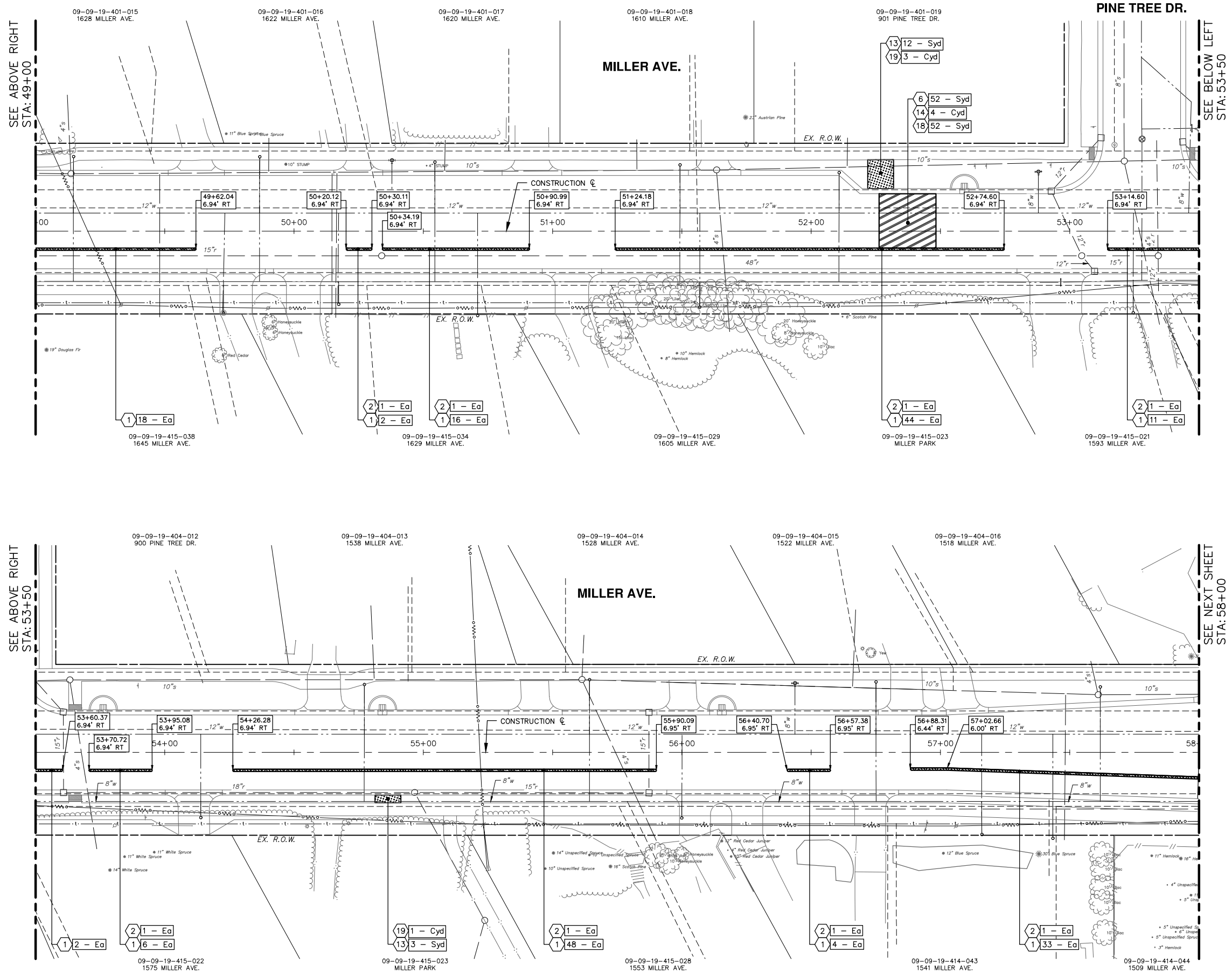
STA. 40+00 TO STA. 49+00

SCALE: 1" = 20'

DRAWING No. 20230643-PL04

SHEET No. 118

V:\202306\20230643\Sheets\p05.dwg Dwg Created: 13-Mar-24 - _a2 standard bw.sib - Plot Date: 5-Apr-24



SEE ABOVE RIGHT
STA: 49+00

SEE ABOVE RIGHT
STA: 53+50

SEE BELOW LEFT
STA: 53+50

SEE NEXT SHEET
STA: 58+00

PINE TREE DR.

MILLER AVE.

MILLER AVE.

CONSTRUCTION KEY

| KEY No. | PROPOSED WORK | DESCRIPTION |
|---------|---------------|---|
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Boltard - MASH L125SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7" HMA (Ton) - SEE HMA APPLICATION TABLE, (TYP.) |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - SRT |
| 5 | | Conc, Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc, Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc, Curb and Gutter, Monolithic - Ft |
| 10 | | Conc, Sidewalk, 4 in. - Srt |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - SRT |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Cyd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Cyd |
| 20 | | 12" SUBBASE PAID AS: Subbase, CIP - Cyd |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

CONSTRUCTION PLAN SHEET

SCALE: 1" = 20'

DRAWING NO. 20230643-PL05

SHEET No.

STA. 49+00 TO STA. 58+00

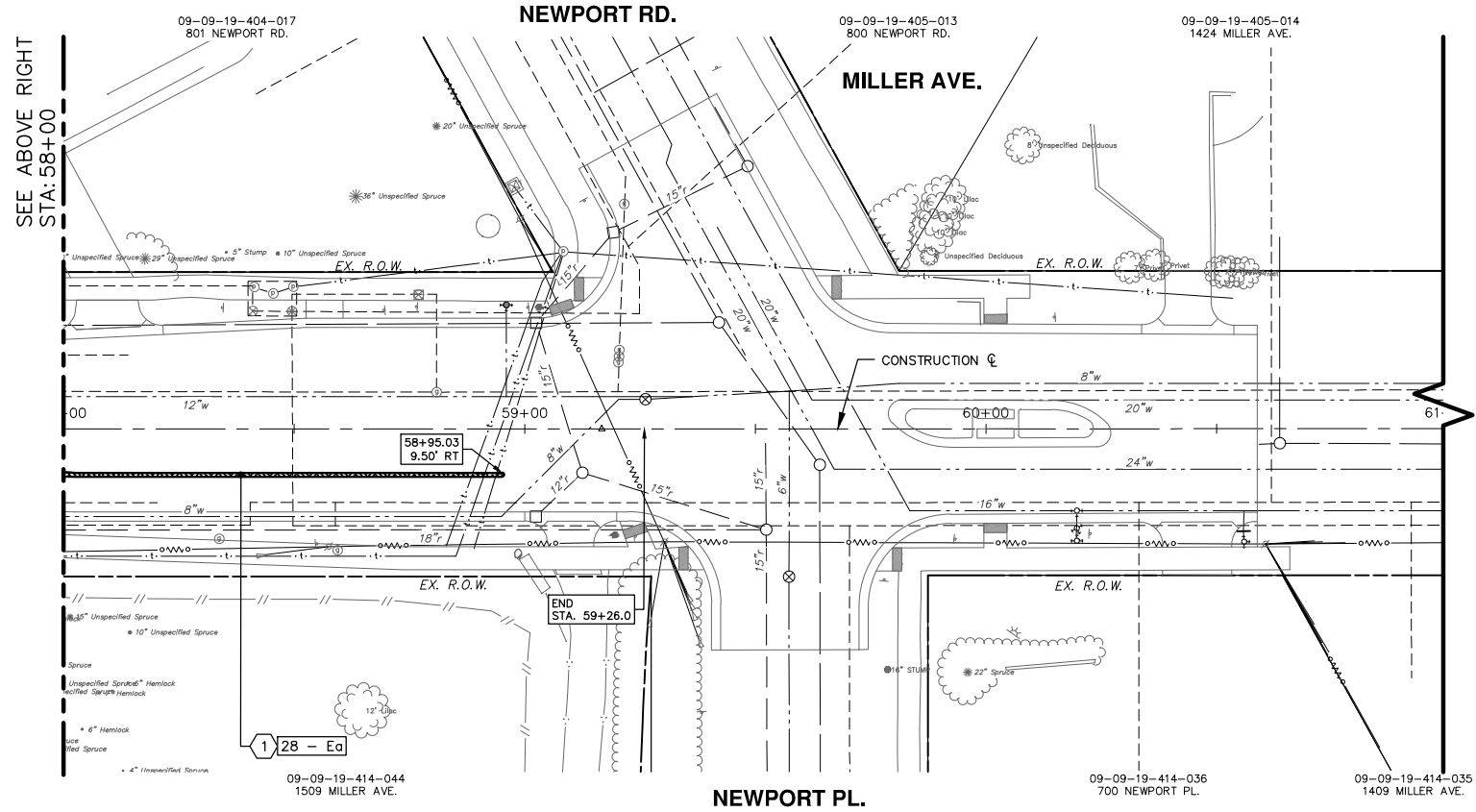
STA. 58+00

| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

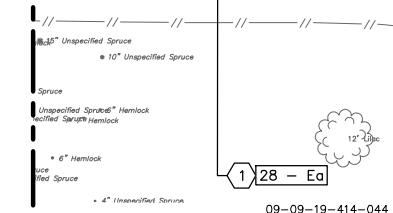
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 866
 ANN ARBOR, MI 48106-0867
 734.769.4410
 www.a2gov.org

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

V:\202306\20230643\Sheets\p06.dwg Dwg Created: 13-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



SEE ABOVE RIGHT
STA: 58+00



CONSTRUCTION KEY

| KEY No. | PROPOSED WORK | DESCRIPTION |
|---------|---------------|---|
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Boltard - MASH L125SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7" HMA (Ton) - SEE HMA APPLICATION TABLE, (TYP.) |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - Sft |
| 5 | | Conc. Curb & Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc. Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc. Curb and Gutter, Monolithic - Ft |
| 10 | | Conc. Sidewalk, 4 in. - Sft |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - Sft |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Cyd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Cyd |
| 20 | | 12" SUBBASE PAID AS: Subbase, CIP - Cyd |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

CONSTRUCTION PLAN SHEET

STA. 58+00 TO END (STA. 59+26)

SCALE: 1" = 20'

DRAWING No. 20230643-PL06

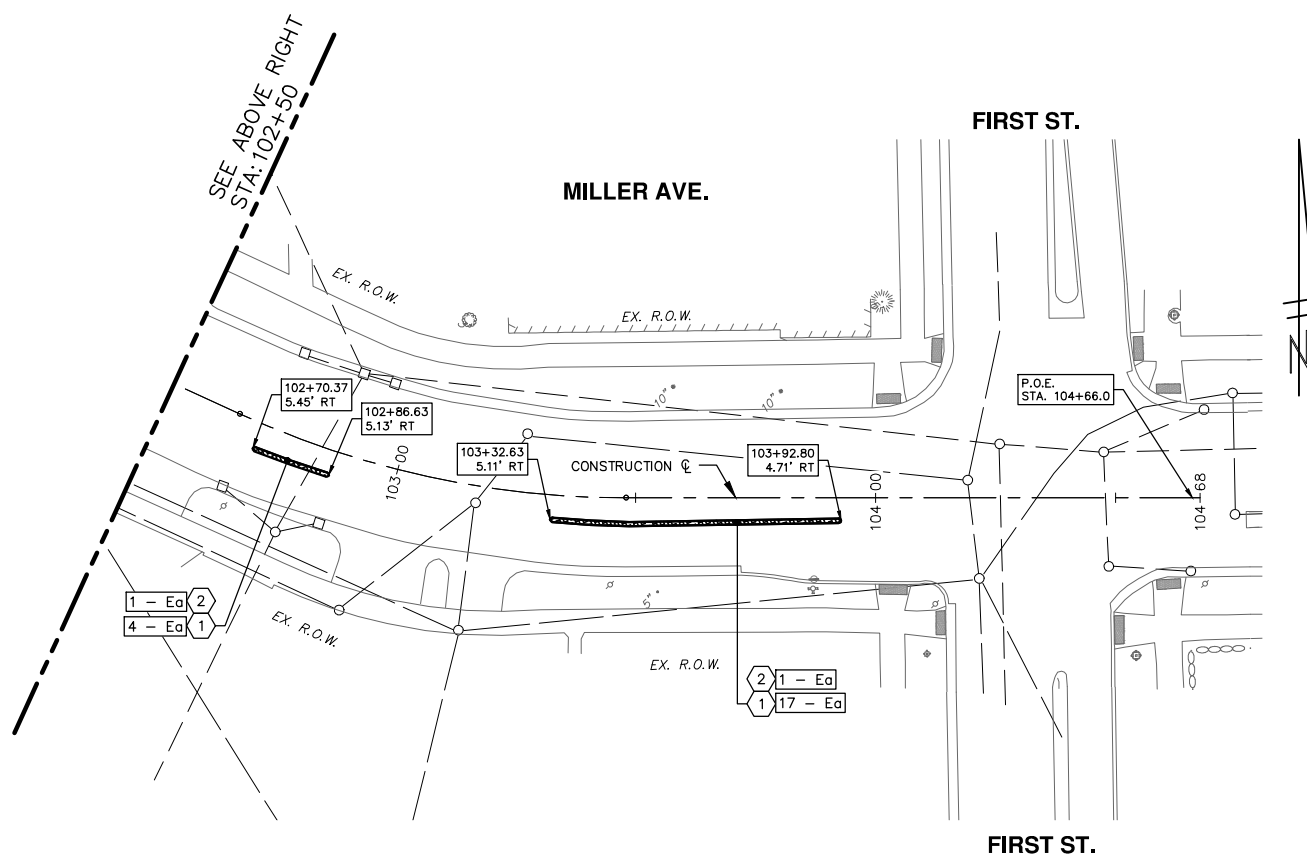
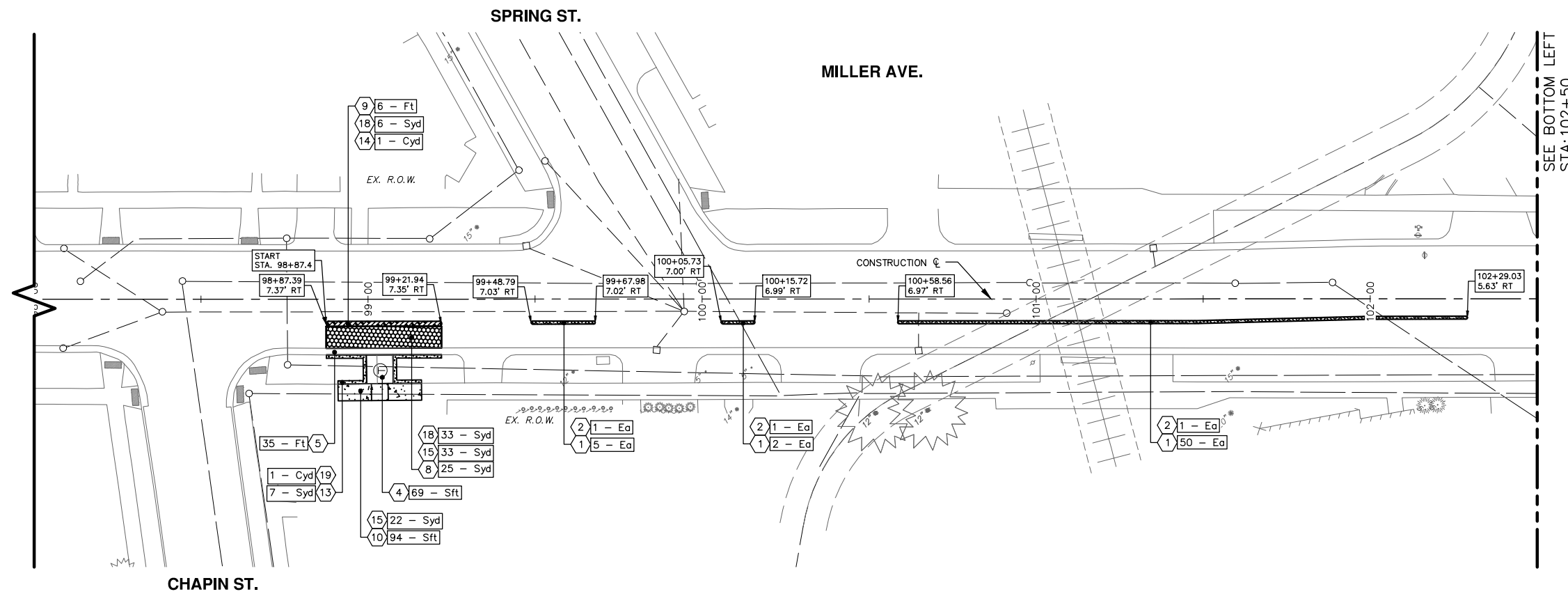
SHEET No. 120

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811
Know what's below.
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| | | | | |
|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

V:\202306\20230643\Sheets\p07.dwg Dwg Created: 13-Mar-24 - _a2 standard bw.stb - Plot Date: 5-Apr-24



| CONSTRUCTION KEY | | |
|------------------|---------------|---|
| KEY No. | PROPOSED WORK | DESCRIPTION |
| 1 | | DS_Continuous Base Mid Span L60 - Ea AND DS_Big Boltard - MASH L125SHM - Ea |
| 2 | | DS_Continuous Base Front Span L61 - Ea AND DS_Continuous Base Rear Span L62 - Ea |
| 3 | | 7" HMA (Ton) - SEE HMA APPLICATION TABLE, (TYP.) |
| 4 | | BUS STOP LOCATION PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in. - Sft |
| 5 | | Conc, Curb or Curb & Gutter, All Types - Ft |
| 6 | | SPEED TABLE PAID AS: Conc Pavt, Non-Reinf, 9 in. |
| 7 | | Conc, Driveway Opening, Type M - Ft |
| 8 | | Conc Pavt, Non-Reinf, 8 in. - Syd |
| 9 | | DS_Conc, Curb and Gutter, Monolithic - Ft |
| 10 | | Conc, Sidewalk, 4 in. - Sft |
| 11 | | Conc Pavt, Non-Reinf, 7 in. - Syd |
| 12 | | DRIVEWAY APPROACH PAID AS: Conc, Sidewalk, Drive Approach, or Ramp, 6 in., Modified - Sft |
| 13 | | Turf Restoration - Syd |
| 14 | | Aggregate Base Course, 21AA, CIP - Cyd |
| 15 | | Aggregate Base, 4 in., 21AA, CIP - Syd |
| 16 | | Aggregate Base, 6 in., 21AA, CIP - Syd |
| 17 | | Aggregate Base, 8 in., 21AA, CIP - Syd |
| 18 | | Aggregate Base, Conditioning - Syd |
| 19 | | Embankment - Cyd |
| 20 | | 12" SUBBASE PAID AS: Subbase, CIP - Cyd |
| 21 | | Underdrain, Subgrade, 6 in. - Ft |
| 22 | | AS DIRECTED: Storm Structure Cover, Adjust |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

CONSTRUCTION PLAN SHEET

SCALE: 1" = 20'

DRAWING No. 20230643-PL07

SHEET No. 121

START TO P.O.E.

REV. DESCRIPTION DATE DRAWN CHECKED

| | | | | |
|---|-----------------|---------|-----|-----|
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

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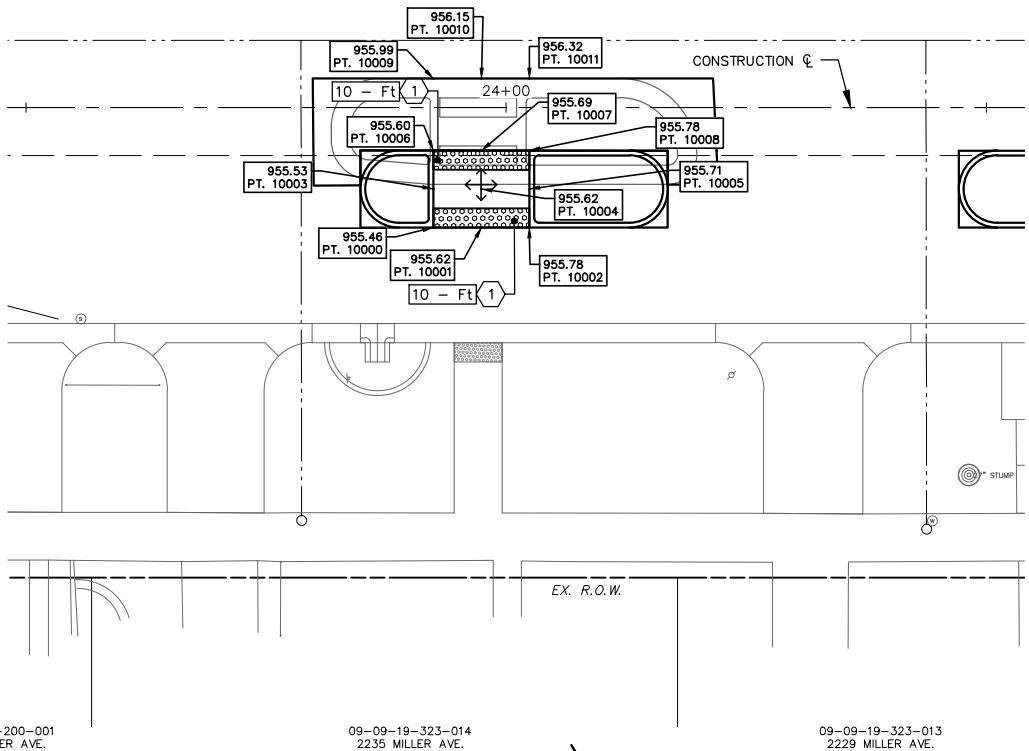
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|------|-----------------|---------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | 4/9/24 | ENR | NEN |
| 2 | FINAL PLANS | 3/13/24 | ENR | NEN |
| 1 | CITY REVIEW | 3/6/24 | ENR | NEN |

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
DETAIL GRADES

MILLER AVE.

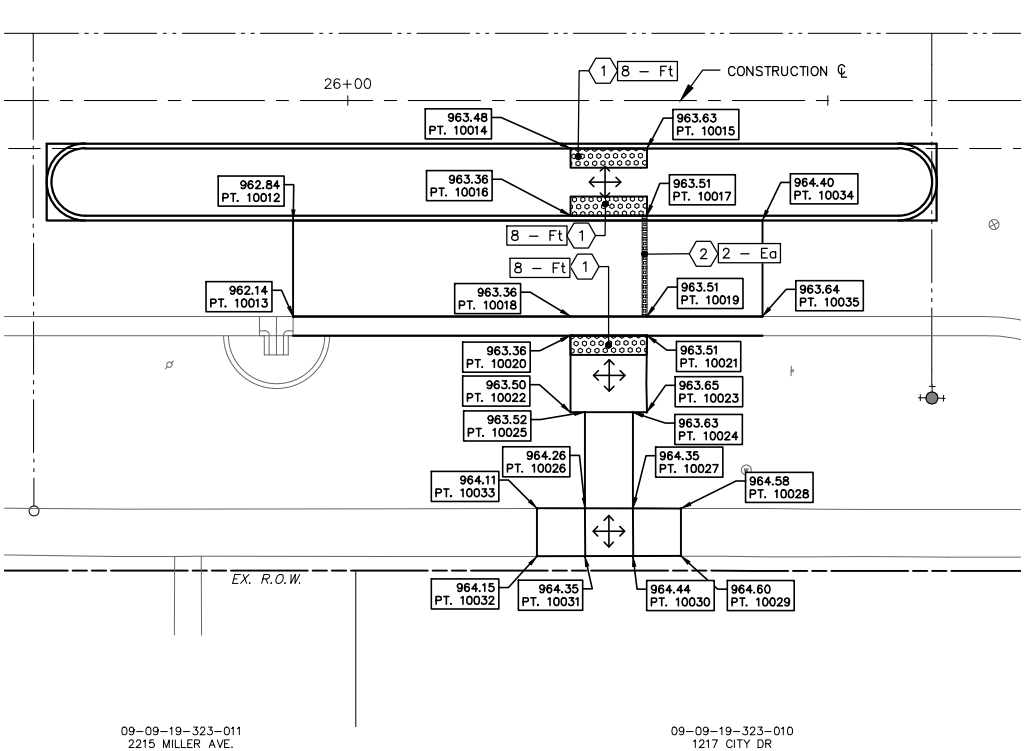


09-09-19-200-001
2241 MILLER AVE.

09-09-19-323-014
2235 MILLER AVE.

09-09-19-323-013
2229 MILLER AVE.

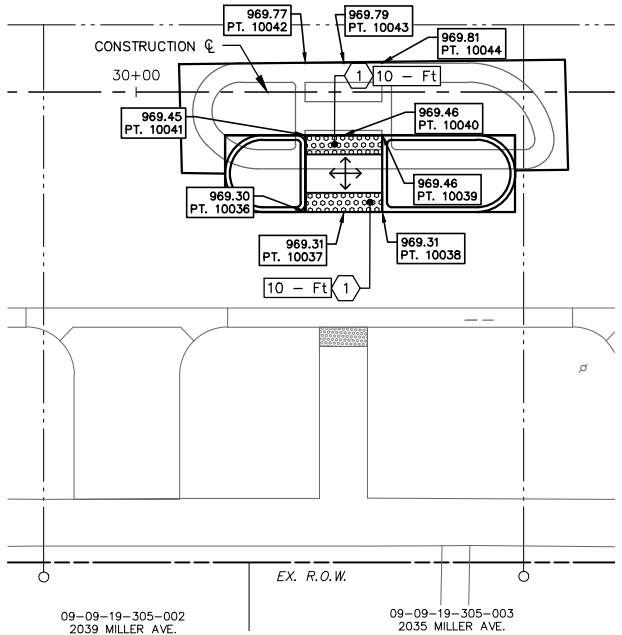
MILLER AVE.



09-09-19-323-011
2215 MILLER AVE.

09-09-19-323-010
1217 CITY DR

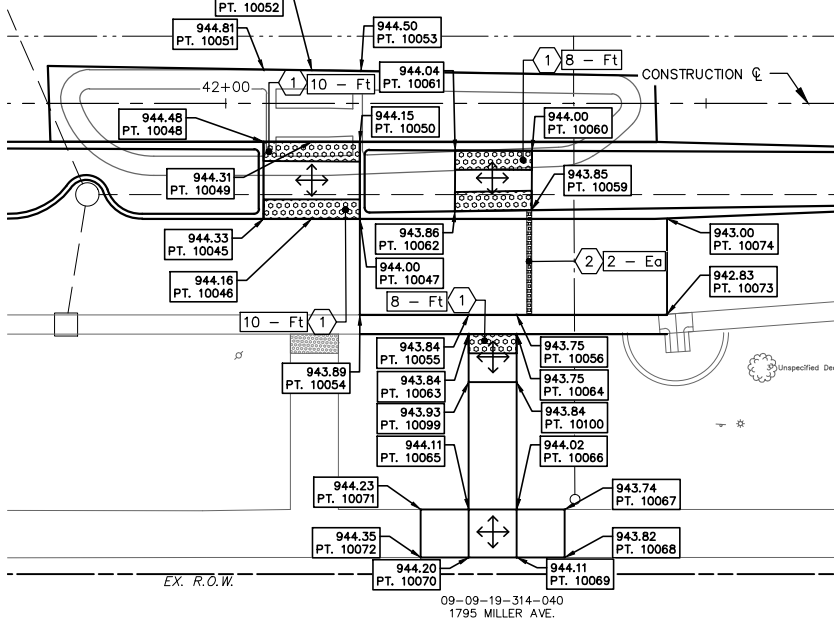
MILLER AVE.



09-09-19-305-002
2039 MILLER AVE.

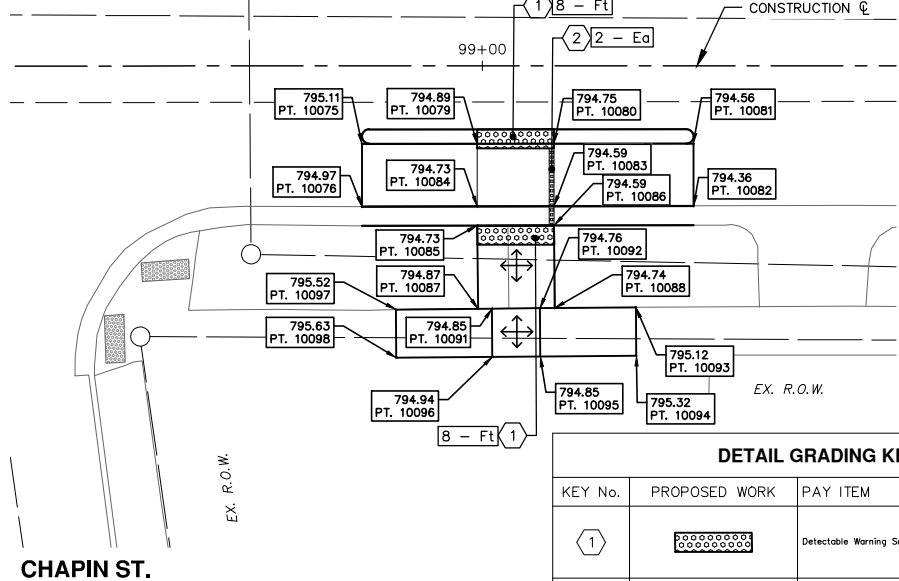
09-09-19-305-003
2035 MILLER AVE.

MILLER AVE.



09-09-19-314-040
1795 MILLER AVE.

MILLER AVE.



CHAPIN ST.

NOTES:

1. DETECTABLE DIRECTIONAL TILES MAY NEED TO BE MEASURED AND CUT IN THE FIELD TO FIT AS SHOWN.
2. COORDINATE DETAIL GRADES WITH RECTANGULAR RAPID FLASHING BEACON (RRFB) INSTALLATION. SEE RRFB CROSSING DETAIL GRADE SHEETS FOR RRFB FOUNDATION AND SIDEWALK (RAMPS AND LANDINGS) LOCATIONS AND DETAIL GRADES.

DETAIL GRADING KEY

| KEY No. | PROPOSED WORK | PAY ITEM |
|---------|---------------|--------------------------------------|
| 1 | | Detectable Warning Surface - Ft |
| 2 | | DS_Detectable Directional Tiles - Ea |
| | | LEVEL LANDING |

V:\202306\20230643\Sheets\dtg01.dwg Dwg Created: 19-Mar-24 Plot Date: 5-Apr-24

V:\202306\20230643\1_Sheets\pm01_MillerMaple.dwg Dwg Created: 5-Apr-24 - _o2_standard_bw.stb - Plot Date: 5-Apr-24

81-08-24-125-017
MILLER RD

MAPLE RD.

RECESSING PAVT MRKG, TRANSV - 247 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 247 FT

RECESSING PAVT MRKG, LONGIT - 400 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 400 FT

RECESSING PAVT MRKG, TRANSV, 92 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSS
HATCHING, WHITE - 92 FT

RECESSING PAVT MRKG, LONGIT - 44 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 44 FT

RECESSING PAVT MRKG, LONGIT - 72 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 72 FT
BEG TO END = 108 FT

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 184 SF
BEG TO END = 108 FT

RECESSING PAVT MRKG, TRANSV - 178 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 178 FT

RECESSING PAVT MRKG, TRANSV - 44 SFT
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 22 FT

RECESSING PAVT MRKG, LONGIT - 188 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 188 FT
STA. 13+56 TO 14+50

PAVT MRKG, POLYUREA, RT TURN
ARROW SYM - 1 EA

RECESSING PAVT MRKG, TRANSV - 22 SFT
PAVT MRKG, POLYUREA, 24 IN., STOP BAR
- 11 FT

RECESSING PAVT MRKG,
PAVT MRKG, POLYUREA,
6 IN., YELLOW - 80 FT

PAVT MRKG, POLYUREA, LT TURN
ARROW SYM - 1 EA

09-09-19-214-028
1300 N. MAPLE RD.

PAVT MRKG, POLYUREA, BIKE, SMALL SYM - 3 EA

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 536 SF

RECESSING PAVT MRKG, TRANSV - 148 SFT
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 74 FT

RECESSING PAVT MRKG, TRANSV - 270 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 270 FT

RECESSING PAVT MRKG, TRANSV - 44 SFT
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 22 FT

PAVT MRKG, POLYUREA, LT TURN
ARROW SYM - 1 EA

PAVT MRKG, POLYUREA, THRU
ARROW SYM - 1 EA

RECESSING PAVT MRKG, TRANSV, 70 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSS
HATCHING, WHITE - 70 FT
WEST LEG (TYP.)

P.O.B.
STA. 8+88.0

RECESSING PAVT MRKG, LONGIT - 640 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 640 FT
WEST LEG (TYP.)

RECESSING PAVT MRKG, LONGIT - 42 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 42 FT
BEG TO END = 45 FT

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 175 SF

PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 23 FT

PAVT MRKG, POLYUREA, BIKE, THRU ARROW SYM - 1 EA
PAVT MRKG, POLYUREA, BIKE RT TURN ARROW SYM - 1 EA
PAVT MRKG, POLYUREA, BIKE, SMALL SYM - 2 EA
PAVT MRKG, POLYUREA, 6 IN., WHITE - 15 FT
PAVT MRKG, POLYMER CEMENT SURFACE, BIKE LANE GREEN - 129 SF

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 100 SF

PAVT MRKG, POLYUREA, 6 IN., WHITE - 43 FT

PAVT MRKG, POLYUREA, BIKE, LT TURN ARROW SYM - 1 EA
PAVT MRKG, POLYUREA, BIKE, SMALL SYM - 1 EA

RECESSING PAVT MRKG, LONGIT - 53 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 53 FT
STA. 12+67 TO STA. 13+50

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 861 SF

RECESSING PAVT MRKG, LONGIT - 223 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 223 FT

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 140 SF

PAVT MRKG, POLYUREA, 6 IN., WHITE - 63 FT

PAVT MRKG, POLYUREA, BIKE, RT TURN ARROW SYM - 1 EA
PAVT MRKG, POLYUREA, BIKE, SMALL SYM - 1 EA

RECESSING PAVT MRKG, TRANSV - 152 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 152 FT

RECESSING PAVT MRKG, TRANSV - 66 SFT
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 33 FT

09-09-19-200-014
1210 N. MAPLE RD.

PAVT MRKG, POLYUREA,
6 IN., WHITE - 47 FT

RECESSING PAVT MRKG, LONGIT - 12 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 12 FT
STA. 13+74 TO STA. 14+00

PAVT MRKG, POLYUREA, 24 IN.,
STOP BAR - 4 FT

PAVT MRKG, POLYUREA, 4 IN., YELLOW - 25 FT

PAVT MRKG, POLYUREA, BIKE THRU ARROW SYM - 2 EA
PAVT MRKG, POLYUREA, BIKE SMALL SYM - 2 EA

NOTES:

- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
- PROPOSED PAVEMENT MARKINGS SHALL TIE IN AND MATCH EXISTING PAVEMENT MARKINGS AT ALL PROJECT LIMITS.
- PAVEMENT MARKING SYMBOL DETAILS, LINE PATTERNS, AND CROSSWALK MARKINGS SHALL COMPLY WITH MDOT STANDARD DETAILS, DIMENSIONS, AND SPACING.
- CALL OUTS REPRESENT REPLACEMENT AND NEW MARKINGS.
- RETAIN ALL EXISTING MARKINGS UNLESS OTHERWISE NOTED.
- LANE WIDTH SHALL NOT BE LESS THAN 10.5 FEET.
- CYCLE TRACK WIDTH VARIES FROM 7 FEET TO 10 FEET EXCLUDING THE GUTTER.
- BLACK BIKEWAY DELINEATOR POSTS ARE TO BE INSTALLED AT ENDS OF CONCRETE CURB BUFFER UNLESS OTHERWISE NOTED.
- YELLOW BIKEWAY DELINEATOR POST ARE TO BE INSTALLED ON CYCLE TRACK ADJACENT TO CROSS STREETS UNLESS OTHERWISE NOTED.

- BIKEWAY DELINEATOR POST BLACK - 23 EA (THIS SHEET)
- BIKEWAY DELINEATOR POST YELLOW - 1 EA (THIS SHEET)



Know what's below.
Call before you dig.

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |

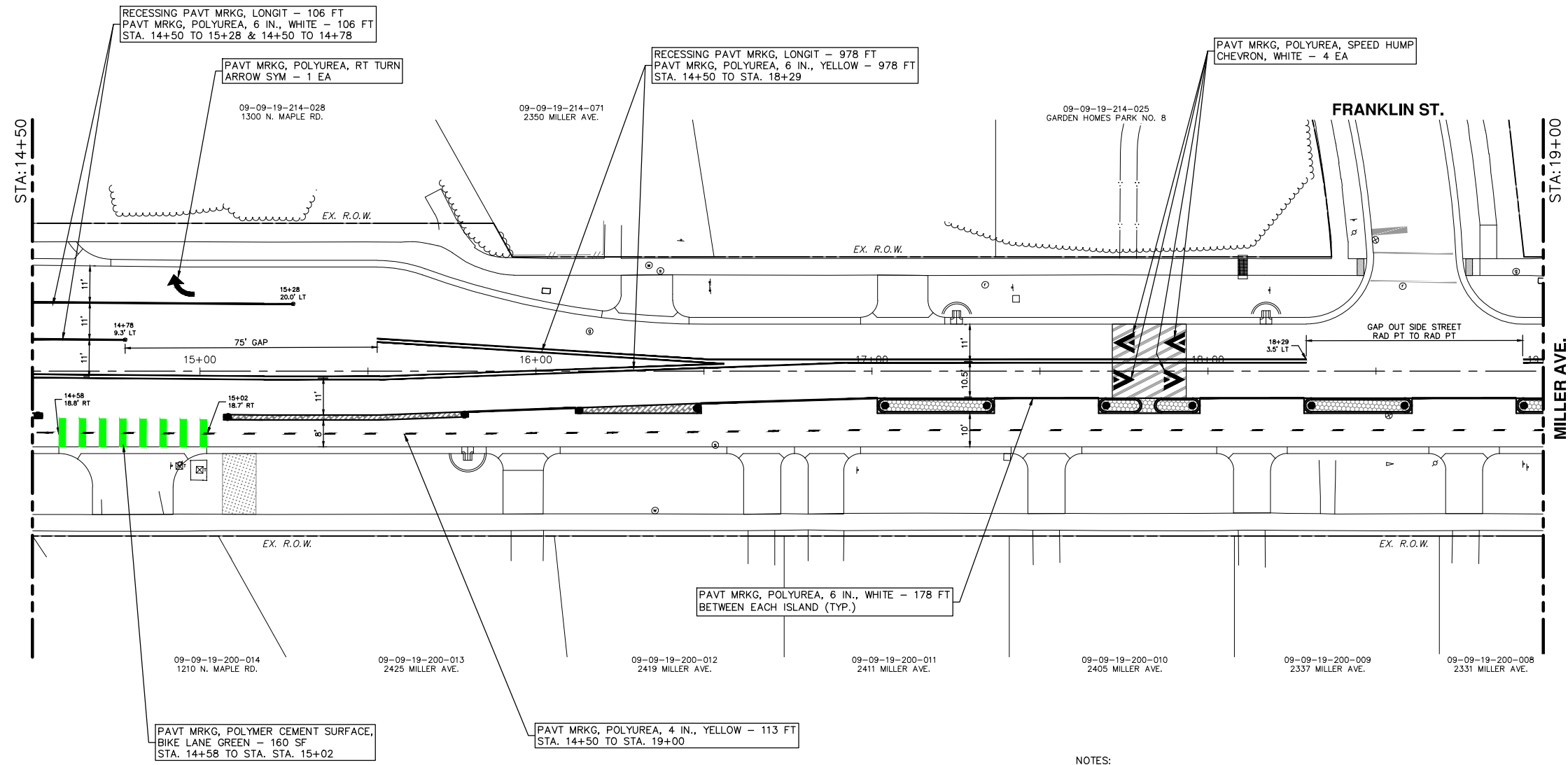
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CITY OF ANN ARBOR - ENGINEERING
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN

SCALE: 1" = 20'
DRAWING NO. 20230643-PM01_MILLERMAPLE
SHEET NO.

V:\202306\20230643\Sheets\pm01.dwg Dwg Created: 19-Mar-24 - _g2 standard bw.sib - Plot Date: 5-Apr-24



- NOTES:
- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
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 - CYCLE TRACK WIDTH VARIES FROM 7 FEET TO 10 FEET EXCLUDING THE GUTTER.
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 - YELLOW BIKEWAY DELINEATOR POST ARE TO BE INSTALLED ON CYCLE TRACK ADJACENT TO CROSS STREETS UNLESS OTHERWISE NOTED.

● BIKEWAY DELINEATOR POST BLACK - 11 EA (THIS SHEET)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK


PAVEMENT MARKING PLAN

STA. 14+50 TO STA. 19+00

SCALE: 1" = 20'

DRAWING No. 20230643-PM01

SHEET No. 124

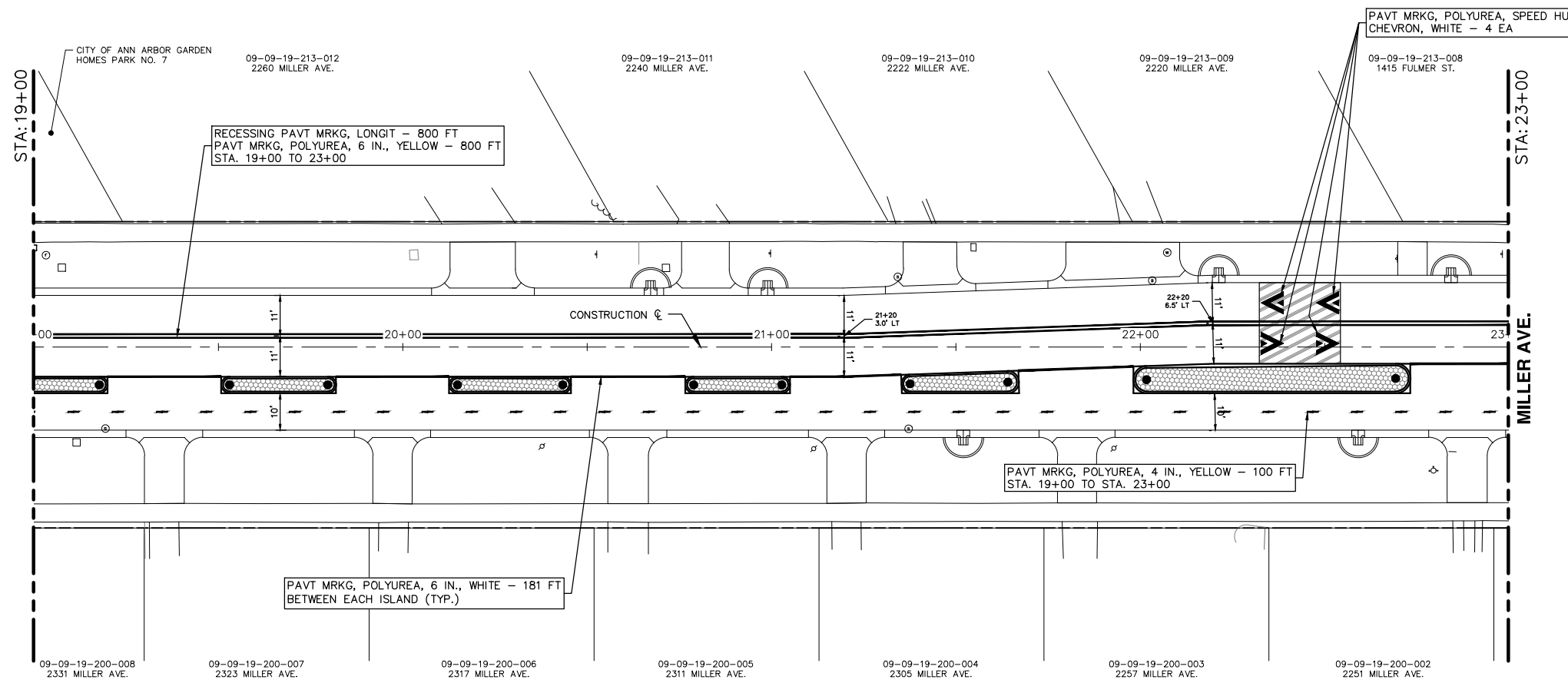


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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |

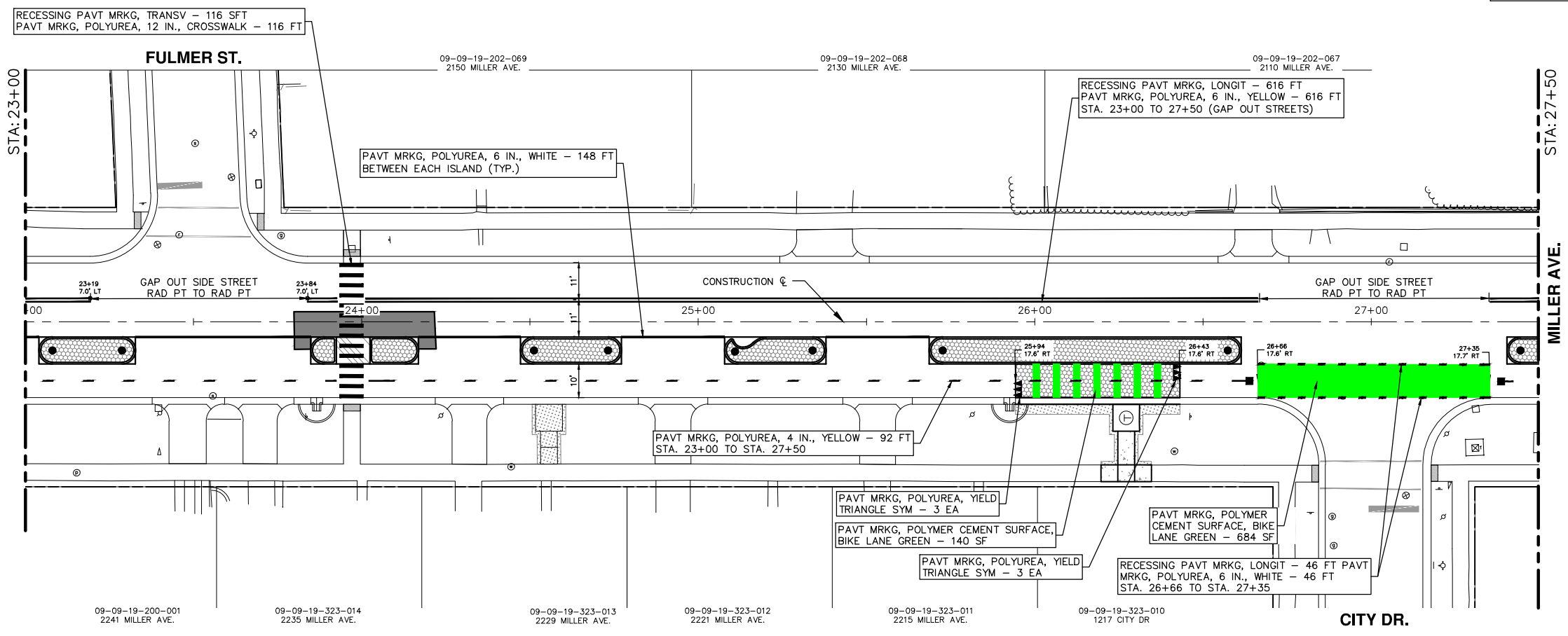
811
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V:\202306\20230643\Sheets\pm02.dwg Dwg Created: 19-Mar-24 - _g2 standard bw.stb - Plot Date: 5-Apr-24



- NOTES:
- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
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 - YELLOW BIKEWAY DELINEATOR POST ARE TO BE INSTALLED ON CYCLE TRACK ADJACENT TO CROSS STREETS UNLESS OTHERWISE NOTED.


- BIKEWAY DELINEATOR POST BLACK - 20 EA (THIS SHEET)
- BIKEWAY DELINEATOR POST YELLOW - 2 EA (THIS SHEET)





Know what's below.
Call Before you dig.

| REV. | DATE | DESCRIPTION |
|------|---------|-----------------|
| 3 | 4/9/24 | FINAL BID PLANS |
| 2 | 3/13/24 | FINAL PLANS |
| 1 | 3/6/24 | CITY REVIEW |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN

SCALE: 1" = 20'
DRAWING No. 20230643-PM02
SHEET No. 125

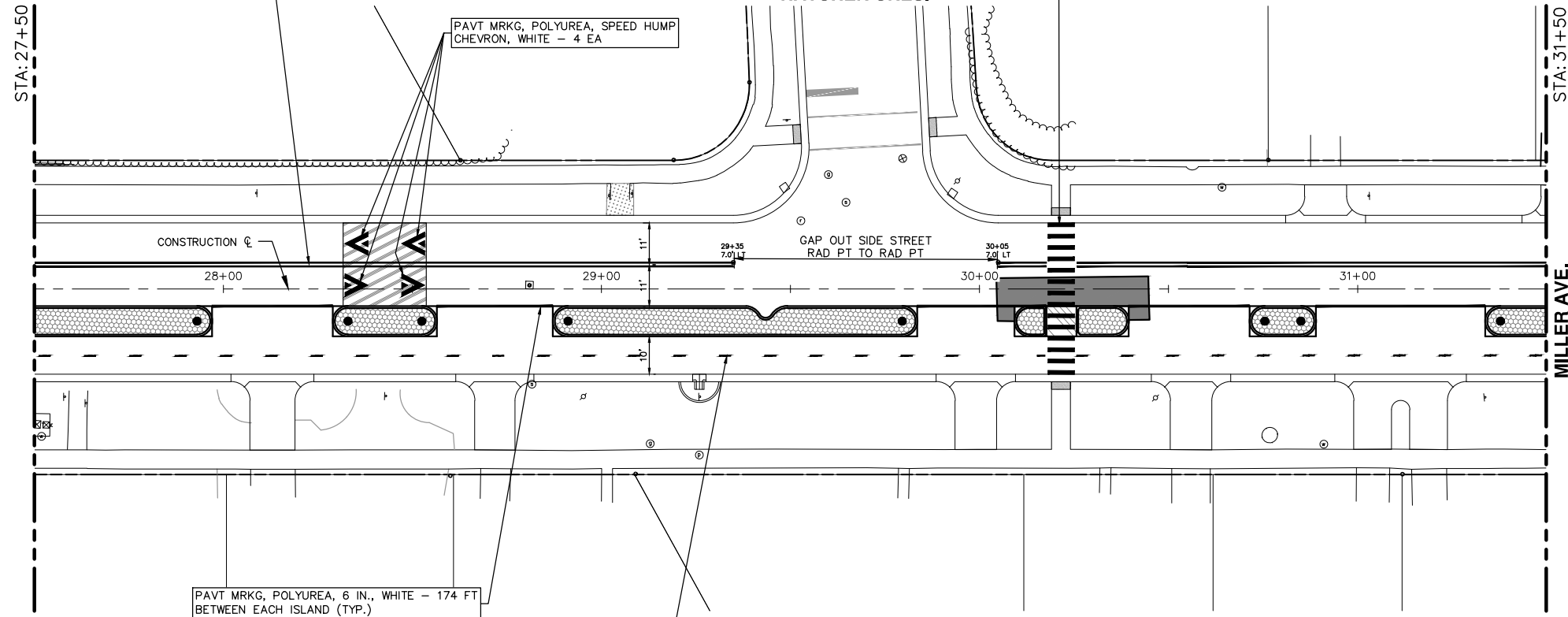
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RECESSING PAVT MRKG, LONGIT - 660 FT
PAVT MRKG, POLYUREA, 6 IN., YELLOW - 660 FT
STA. 27+50 TO 31+50 (GAP OUT STREETS)

RECESSING PAVT MRKG, TRANSV - 98 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 98 FT

HATCHER CRES.

PAVT MRKG, POLYUREA, SPEED HUMP
CHEVRON, WHITE - 4 EA



PAVT MRKG, POLYUREA, 6 IN., WHITE - 174 FT
BETWEEN EACH ISLAND (TYP.)

PAVT MRKG, POLYUREA, 4 IN., YELLOW - 98 FT
STA. 27+50 TO STA. 31+50

NOTES:

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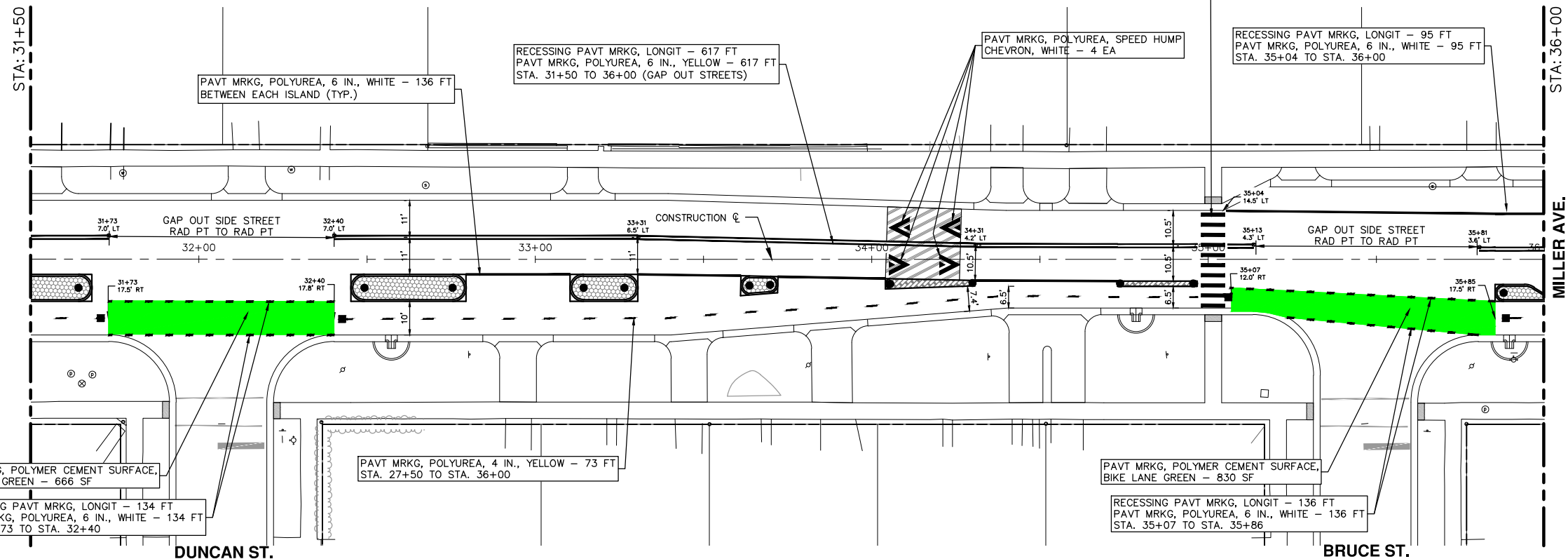
- BIKEWAY DELINEATOR POST BLACK - 20 EA (THIS SHEET)
- BIKEWAY DELINEATOR POST YELLOW - 4 EA (THIS SHEET)

RECESSING PAVT MRKG, TRANSV - 70 SFT
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 70 FT

RECESSING PAVT MRKG, LONGIT - 617 FT
PAVT MRKG, POLYUREA, 6 IN., YELLOW - 617 FT
STA. 31+50 TO 36+00 (GAP OUT STREETS)

PAVT MRKG, POLYUREA, SPEED HUMP
CHEVRON, WHITE - 4 EA

RECESSING PAVT MRKG, LONGIT - 95 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 95 FT
STA. 35+04 TO STA. 36+00



PAVT MRKG, POLYUREA, 6 IN., WHITE - 136 FT
BETWEEN EACH ISLAND (TYP.)

PAVT MRKG, POLYUREA, 4 IN., YELLOW - 73 FT
STA. 27+50 TO STA. 36+00

PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 666 SF

RECESSING PAVT MRKG, LONGIT - 134 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 134 FT
STA. 31+73 TO STA. 32+40

RECESSING PAVT MRKG, LONGIT - 136 FT
PAVT MRKG, POLYUREA, 6 IN., WHITE - 136 FT
STA. 35+07 TO STA. 35+86



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |

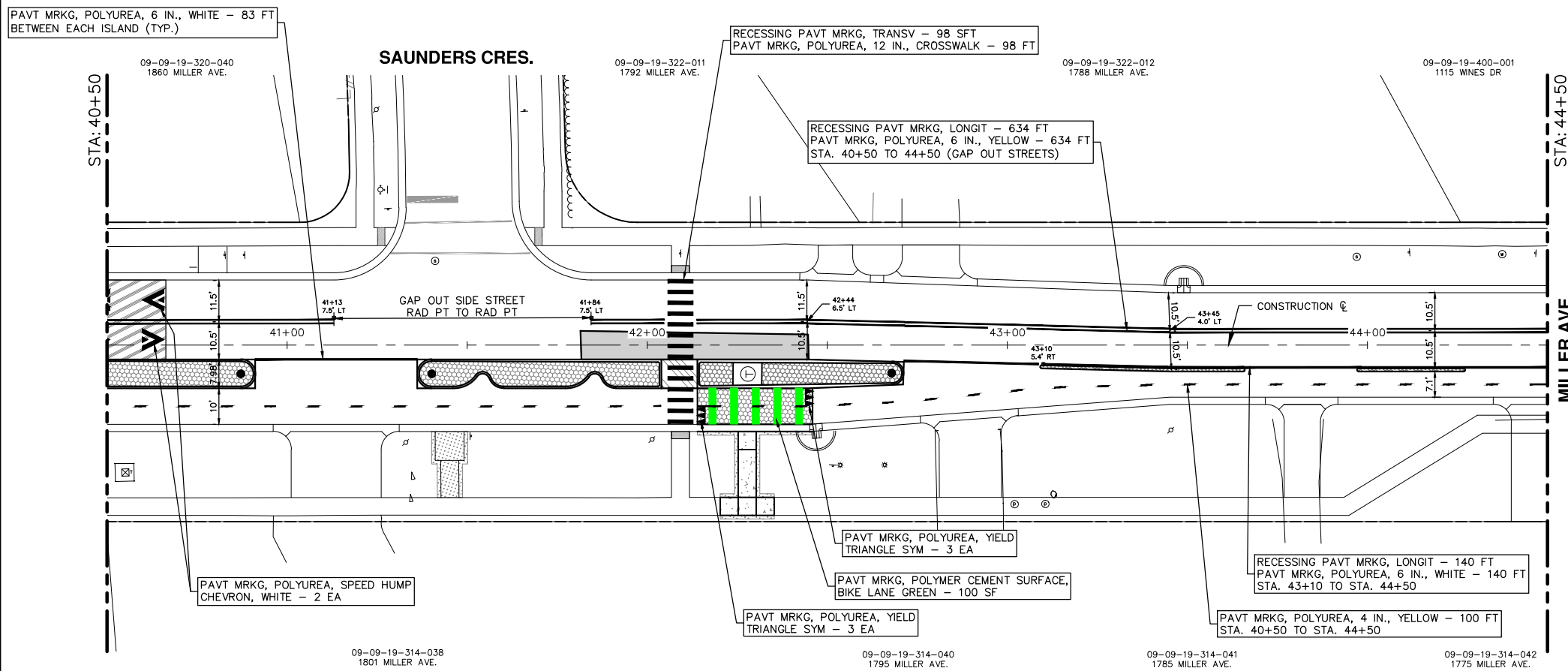
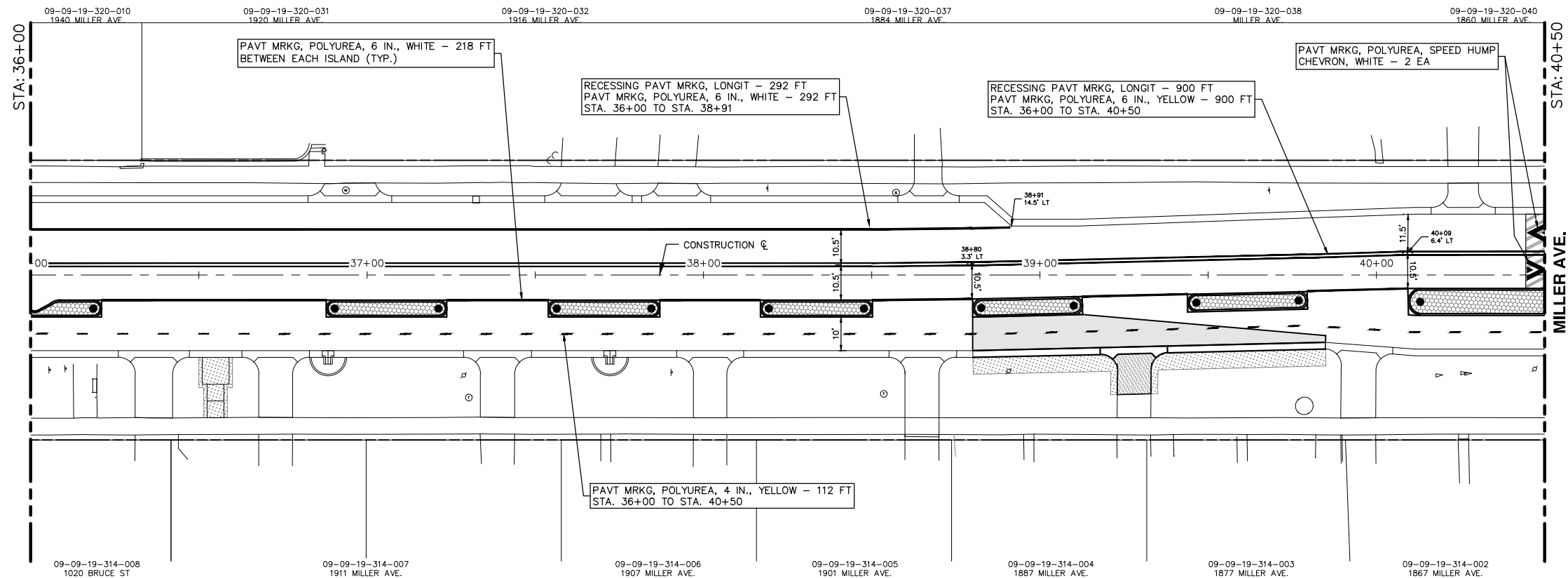
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ANN ARBOR, MI 48106-8667
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN
STA. 27+50 TO STA. 36+00


SCALE: 1" = 20'
DRAWING No. 20230643-PM03

V:\202306\20230643\Sheets\pm04.dwg Dwg Created: 19-Mar-24 - _g2 standard bw.stb - Plot Date: 5-Apr-24




- NOTES:
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● BIKEWAY DELINEATOR POST BLACK - 15 EA (THIS SHEET)



Know what's below.
Call Before you dig.

| | | | | | | | | | |
|---|-----------------|--------|-----|-------------|-----|-------------|-------------|-------|---------|
| | NEN | | | | | | | | |
| | HFA | 4/9/24 | HFA | 3/13/24 | HFA | 3/6/24 | DATE | DRAWN | CHECKED |
| 3 | FINAL BID PLANS | | 2 | FINAL PLANS | 1 | CITY REVIEW | DESCRIPTION | REV. | |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN
STA. 36+00 TO STA. 44+50

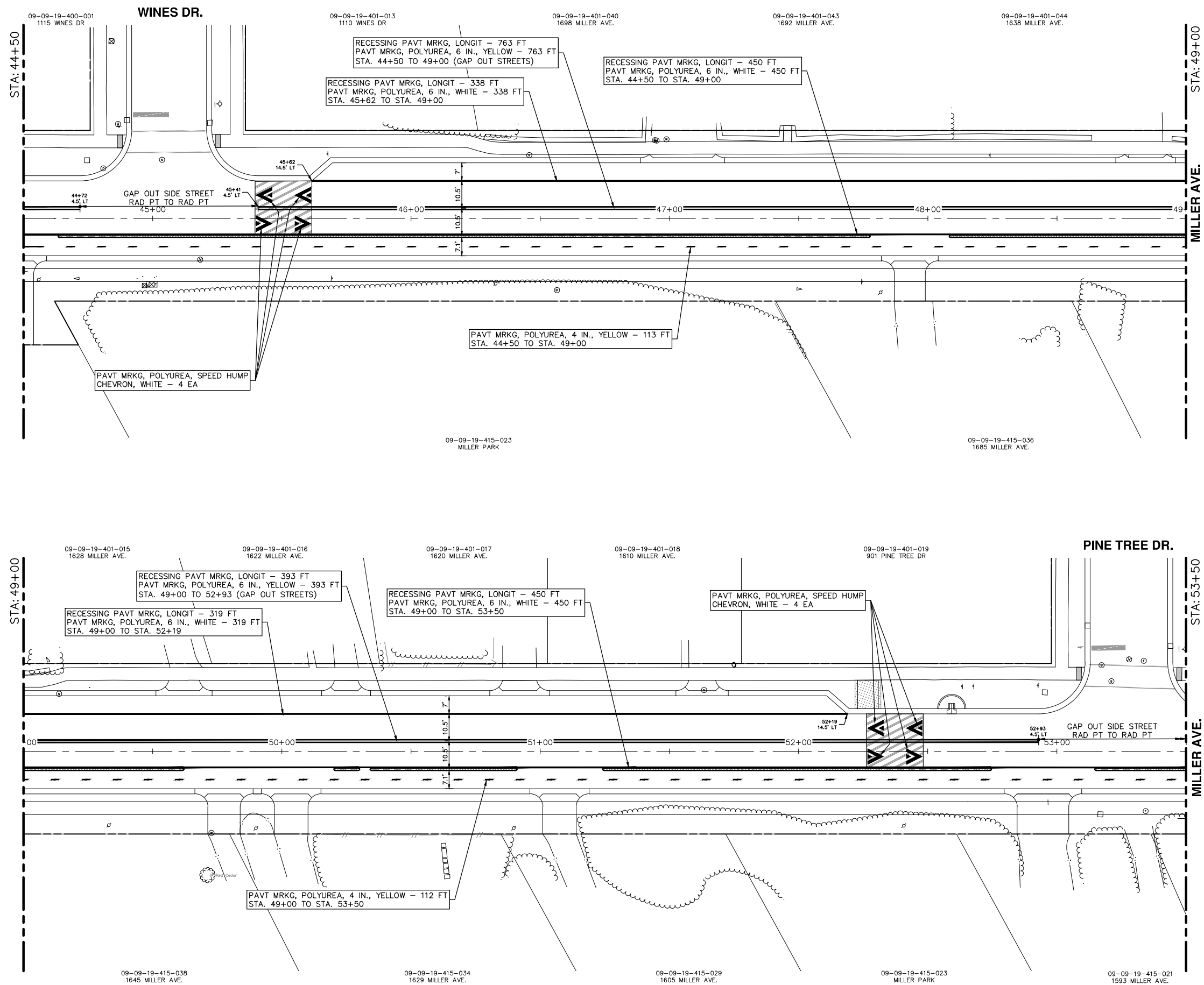
SHEET No. 127

SCALE 1" = 20'


DRAWING No. 20230643-PM04

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8667
ANN ARBOR 734-794-4410
WWW.A2GOV.ORG

V:\202306\20230643\Sheets\pm05.dwg Dwg Created: 13-Mar-24 - _02 standard bw.stb - Plot Date: 5-Apr-24




- NOTES:
- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
 - PROPOSED PAVEMENT MARKINGS SHALL TIE IN AND MATCH EXISTING PAVEMENT MARKINGS AT ALL PROJECT LIMITS.
 - PAVEMENT MARKING SYMBOL, DETAILS, LINE PATTERNS, AND CROSSWALK MARKINGS SHALL COMPLY WITH MDOT STANDARD DETAILS, DIMENSIONS, AND SPACING.
 - CALL OUTS REPRESENT REPLACEMENT AND NEW MARKINGS.
 - RETAIN ALL EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 - LANE WIDTH SHALL NOT BE LESS THAN 10.5 FEET.
 - CYCLE TRACK WIDTH VARIES FROM 7 FEET TO 10 FEET EXCLUDING THE GUTTER.




Know what's below.
Call Before you dig.

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
MILLER ROAD CYCLE TRACK
PAVEMENT MARKING PLAN
STA. 44+50 TO STA. 53+50

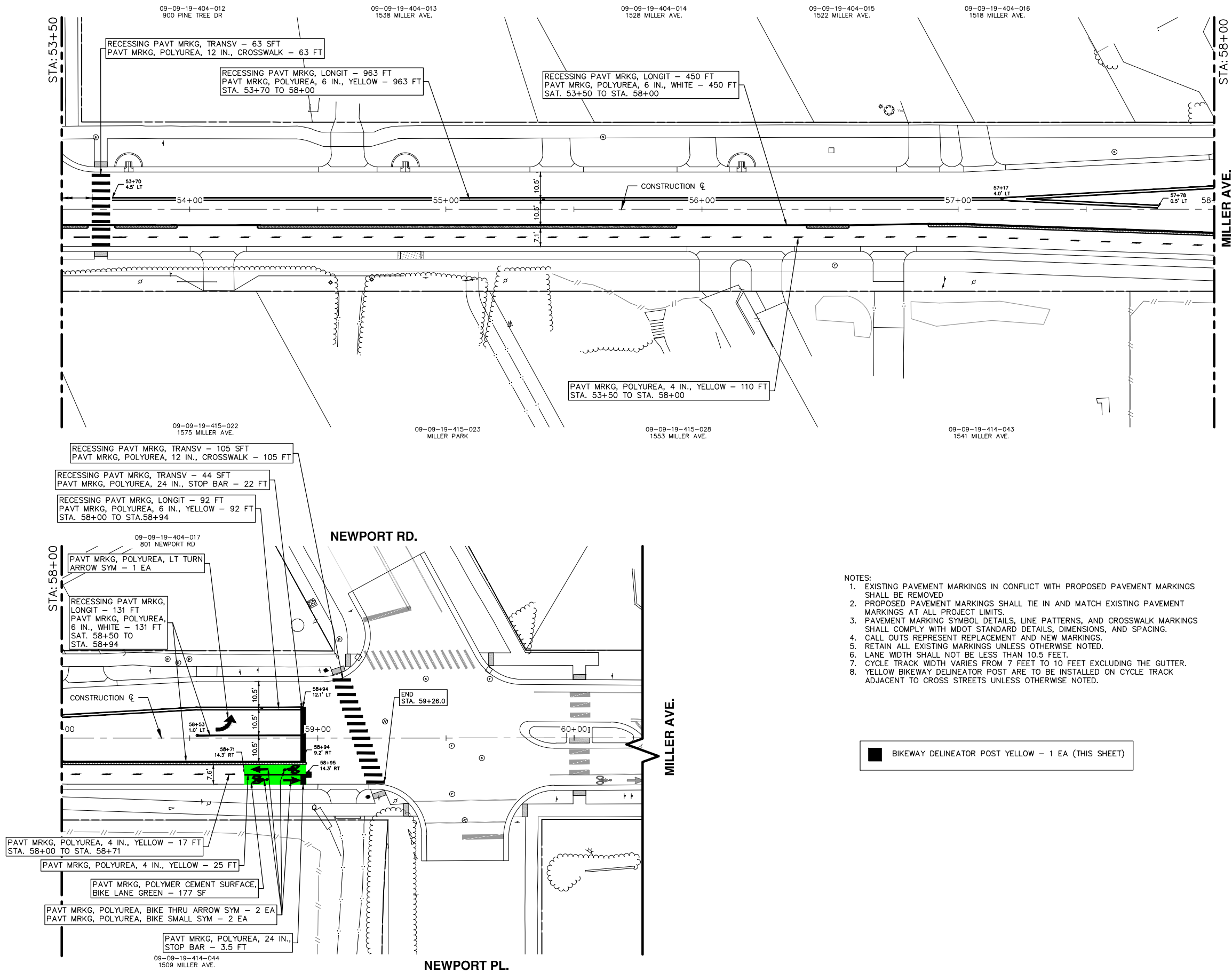
SCALE 1" = 20'



DRAWING No.
20230643-PM05

SHEET No. 128

V:\202306\20230643\Sheets\pm06.dwg Dwg Created: 13-Mar-24 - _02 standard bw.stb - Plot Date: 5-Apr-24



- PAVT MRKG, POLYUREA, 4 IN., YELLOW - 17 FT
STA. 58+00 TO STA. 58+71
- PAVT MRKG, POLYUREA, 4 IN., YELLOW - 25 FT
- PAVT MRKG, POLYMER CEMENT SURFACE,
BIKE LANE GREEN - 177 SF
- PAVT MRKG, POLYUREA, BIKE THRU ARROW SYM - 2 EA
PAVT MRKG, POLYUREA, BIKE SMALL SYM - 2 EA
- PAVT MRKG, POLYUREA, 24 IN.,
STOP BAR - 3.5 FT

- NOTES:
1. EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
 2. PROPOSED PAVEMENT MARKINGS SHALL TIE IN AND MATCH EXISTING PAVEMENT MARKINGS AT ALL PROJECT LIMITS.
 3. PAVEMENT MARKING SYMBOL DETAILS, LINE PATTERNS, AND CROSSWALK MARKINGS SHALL COMPLY WITH MDOT STANDARD DETAILS, DIMENSIONS, AND SPACING.
 4. CALL OUTS REPRESENT REPLACEMENT AND NEW MARKINGS.
 5. RETAIN ALL EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 6. LANE WIDTH SHALL NOT BE LESS THAN 10.5 FEET.
 7. CYCLE TRACK WIDTH VARIES FROM 7 FEET TO 10 FEET EXCLUDING THE GUTTER.
 8. YELLOW BIKEWAY DELINEATOR POST ARE TO BE INSTALLED ON CYCLE TRACK ADJACENT TO CROSS STREETS UNLESS OTHERWISE NOTED.

BIKEWAY DELINEATOR POST YELLOW - 1 EA (THIS SHEET)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK


PAVEMENT MARKING PLAN

STA. 53+50 TO END

SCALE: 1" = 20'

DRAWING No. 20230643-PM06

SHEET No.

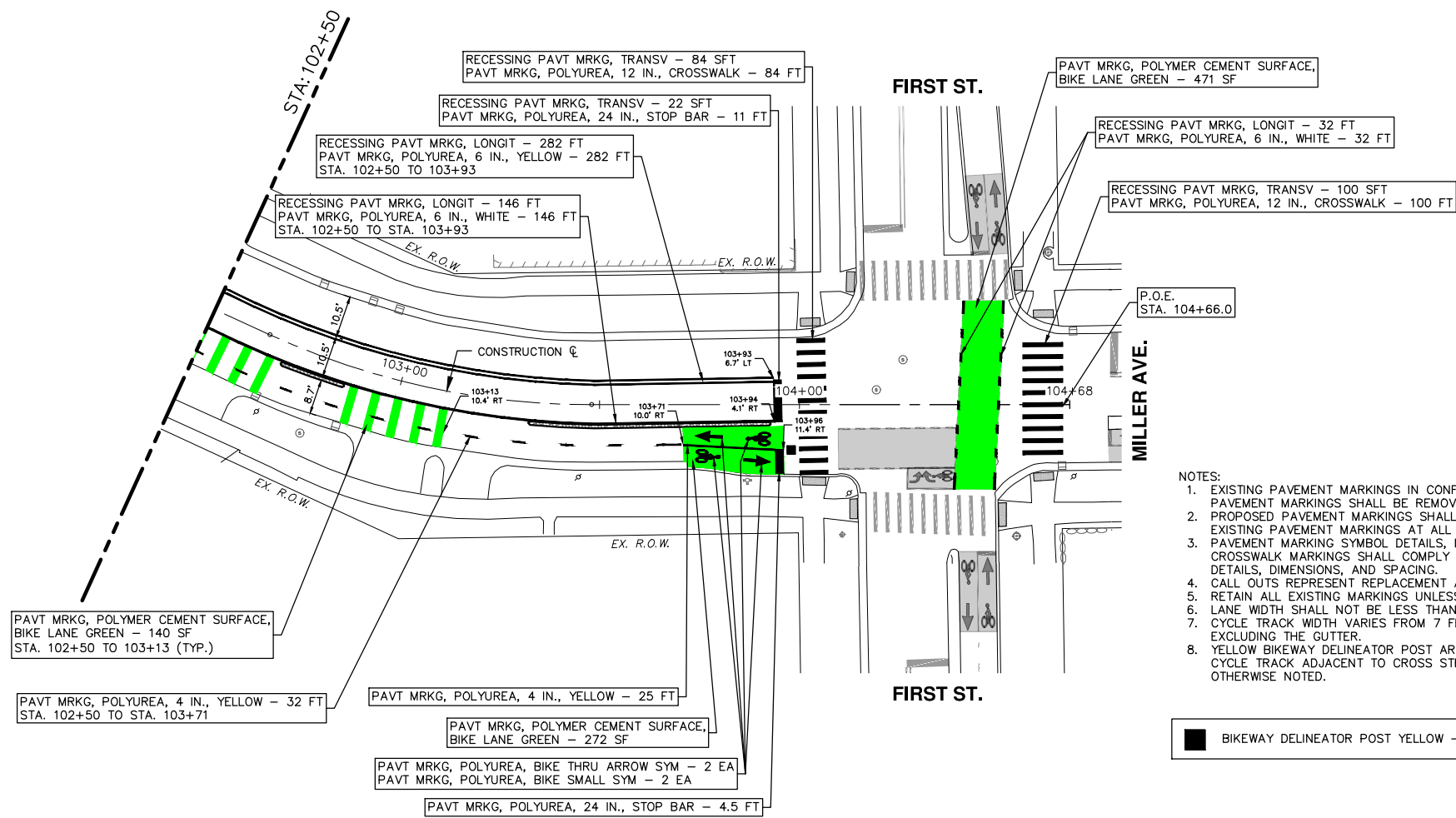
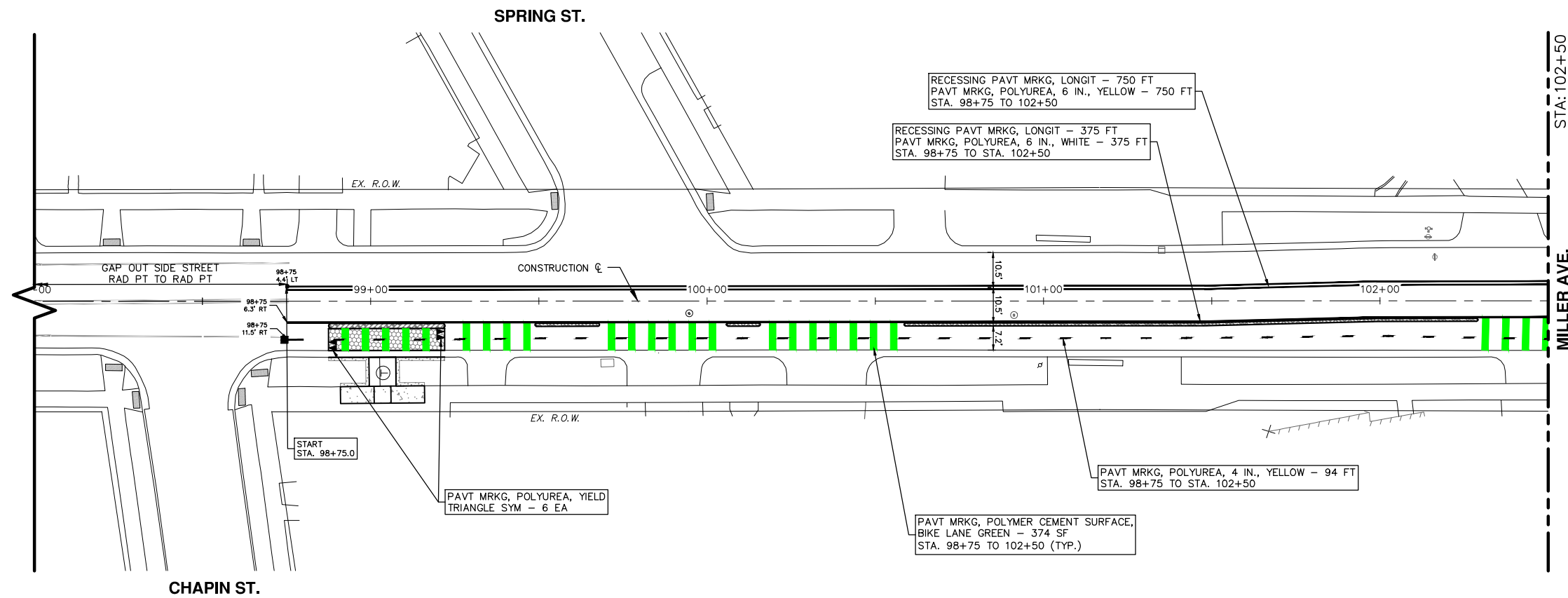


811
Know what's below.
Call Before you dig.

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |

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- NOTES:
- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED
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 - CALL OUTS REPRESENT REPLACEMENT AND NEW MARKINGS.
 - RETAIN ALL EXISTING MARKINGS UNLESS OTHERWISE NOTED.
 - LANE WIDTH SHALL NOT BE LESS THAN 10.5 FEET.
 - CYCLE TRACK WIDTH VARIES FROM 7 FEET TO 10 FEET EXCLUDING THE GUTTER.
 - YELLOW BIKEWAY DELINEATOR POST ARE TO BE INSTALLED ON CYCLE TRACK ADJACENT TO CROSS STREETS UNLESS OTHERWISE NOTED.

BIKEWAY DELINEATOR POST YELLOW - 2 EA (THIS SHEET)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

MILLER ROAD CYCLE TRACK

PAVEMENT MARKING PLAN

START TO P.O.E.

SCALE: 1" = 20'

DRAWING No. 20230643-PM07

SHEET No. 130

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

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|-----------------|---------|-------|---------|
| 3 | FINAL BID PLANS | 4/9/24 | HFA | NEN |
| 2 | FINAL PLANS | 3/13/24 | HFA | NEN |
| 1 | CITY REVIEW | 3/6/24 | HFA | NEN |

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CITY OF ANN ARBOR MICHIGAN