

DRAWINGS OF PROPOSED IMPROVEMENTS
FOR

35TH AVENUE AND LEARNING LANE PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

UTILITY AND EMERGENCY TELEPHONE NUMBERS

CITY OF MARION, IOWA

ENGINEERING DEPARTMENT	(319)-743-6340
POLICE DEPARTMENT	(319)-377-1511
EMERGENCY	911
FIRE DEPARTMENT	(319)-377-8237
EMERGENCY	911
WATER DEPARTMENT	(319)-743-6310
SEWER MAINTENANCE DEPARTMENT	(319)-377-6367
IOWA ONE CALL (UTILITIES)	(800)-292-8989
MID-AMERICAN ENERGY	(319)-298-5162
CENTURY LINK (TELEPHONE)	
ENGINEER, WEST SIDE	(319)-399-7600
ENGINEER, EAST SIDE	(319)-399-7487
ALLIANT/I.E.S. INDUSTRIES (ELECTRIC, STEAM)	
INFORMATION	(319)-786-1912
	(319)-786-1959
MEDIACOM (CABLE TV)	(319)-395-9699
BUSINESS	EXT 354
LOCATIONS	(800)-292-8989
WINDSTREAM (TELEPHONE / CABLE TV)	
BUSINESS	(641)-269-7725
LOCATIONS	(800)-292-8989
IMON (TELEPHONE / CABLE TV)	
BUSINESS	(319) 298-6484
LOCATIONS	(800) 292-8989
SOUTHSLOPE (TELEPHONE / CABLE TV)	(319)-665-5312
IOWA NETWORK SERVICE	(319)-533-2319
ITC MIDWEST	(319)-297-6765
JOINT COMMUNICATIONS NETWORK	(319)-286-5491
LINN COUNTY REC	(319)-377-1587
CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	(800)-283-1540
IOWA DEPARTMENT OF TRANSPORTATION	
DISTRICT ENGINEER	(319)-364-0235
MAINTENANCE GARAGES	(319)-364-8189
LINN COUNTY ENGINEER	(319)-892-6400
LINN COUNTY MAINTENANCE	(319)-892-6420

LOCATION MAP

(NOT TO SCALE)



NOTE

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS MANUAL AS NOTED WITH SUPPLEMENTAL SPECIFICATIONS UNLESS OTHERWISE NOTED.

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CITY CLERK: WESLEY NELSON
CITY MANAGER: LON PLUCKHAHN



CONTACT PERSON:
MATT JOHNSON, P.E.
1860 BOYSON ROAD HIAWATHA, IOWA 52233
PH: (319) 362-9548 | FAX: (319) 362-7595



CITY OF MARION

THIS ENGINEERING DOCUMENT IS APPROVED FOR CONSTRUCTION

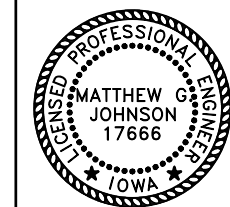
_____ DATE
MICHAEL BARKALOW, CITY ENGINEER

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signed: _____ Date: _____

Matthew G. Johnson, P.E. 17666
My license renewal date is December 31, _____

Pages or sheets covered by this seal:



UTILITY LEGEND

EXISTING		PROPOSED
———— (SS8) ————	SANITARY SEWER W/SIZE	———— SS8 ————
———— (ST15) ————	STORM SEWER W/SIZE	———— ST18 ————
————	SUBDRAIN	-----
———— (FM6) ————	FORCE MAIN W/SIZE	———— FM6 ————
———— (W8) ————	WATER MAIN W/SIZE	———— W12 ————
----- (G) ----- (G) -----	GAS	----- G ----- G -----
----- (S) ----- (S) ----- (S) -----	STEAM	----- S ----- S -----
----- (OHE) ----- (OHE) -----	ELECTRIC-OVERHEAD	-----
----- (E) ----- (E) -----	ELECTRIC-UNDERGROUND	-----
----- (C) ----- (C) -----	CABLE TV-UNDERGROUND	-----
----- (OHC) ----- (OHC) -----	CABLE TV-OVERHEAD	-----
----- (OHT) ----- (OHT) -----	TELEPHONE-OVERHEAD	----- OHT ----- OHT -----
----- (F) ----- (F) -----	FIBER OPTIC-UNDERGROUND	----- F ----- F -----
----- (OHF) ----- (OHF) -----	FIBER OPTIC-OVERHEAD	----- OHF ----- OHF -----
----- (T) ----- (T) -----	TELEPHONE-UNDERGROUND	----- T ----- T -----
// //	FENCE LINE	// //
◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊	FILTER SOCK	◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊◊
———— (FP) ————	FLOODPLAIN LIMITS	———— FP ————
———— (FW) ————	FLOODWAY LIMITS	———— FW ————
———— (CORP) ————	CITY CORPORATION LIMITS	———— (CORP) ————
~~~~~ 800 ~~~~~	CONTOUR LINE	~~~~~ 800 ~~~~~
☀	LIGHT POLE W/O MAST	☀
☀	LIGHT POLE W/MAST	☀
⊗	TELEPHONE POLE	⊗
⊗	POWER POLE	⊗
┆	GUY ANCHOR	┆
⊖	GUY POLE	⊖
□	TELEPHONE PEDESTAL	□
⊖	TELEPHONE MANHOLE	⊖
□	CABLE TV PEDESTAL	□
⊗	UTILITY/CONTROL CABINET	⊗
⊖	SANITARY MANHOLE	⊖
⊖	STORM MANHOLE	⊖
⊖ OR ⊖	GRATE INTAKE	⊖ OR ⊖
⊖	RA-3 INTAKE	⊖
⊖	RA-5 INTAKE	⊖
⊖	RA-6 INTAKE	⊖
⊖	RA-8 INTAKE	⊖
⊖	HORSESHOE CATCH BASIN W/O FLUME	⊖
⊖	HORSESHOE CATCH BASIN W/FLUME	⊖
⊗	GAS VALVE	⊗
△	FLARED END SECTION	△
⊖	CLEANOUT, STORM OR SANITARY	⊖
⊖	TRAFFIC SIGNAL W/MAST	⊖

### UTILITY LEGEND (CONTINUED)

EXISTING		PROPOSED
⊖	BOLLARD	⊖
⊖ _{BM}	BENCHMARK	⊖ _{BM}
⊖	STREET SIGN	⊖
⊖	WELL	⊖
⊖ _{SB}	SOIL BORING	⊖ _{SB}
⊖	FIRE HYDRANT	⊖
⊖ _{WV}	WATER VALVE	⊖ _{WV}
⊖	WATER SHUTOFF	⊖
⊖	WATER BLOWOFF	⊖
⊖ _{CM}	SURVEY CONTROL MONUMENT AS NOTED	

### NOTES:

1. THIS IS A STANDARD LEGEND. SOME ITEMS MAY NOT APPEAR ON DRAWINGS.

### SURVEY LEGEND

○	SET ___ REBAR W/CAP NO. ___
□	SET PK NAIL
○	FOUND SURVEY MONUMENT AS NOTED
⊗	FOUND RIGHT OF WAY RAIL
△	SECTION CORNER SET AS NOTED
▲	SECTION CORNER FOUND AS NOTED
X	CUT "X" IN CONCRETE
( )	RECORDED AS
-----	EASEMENT LINE
=====	PLAT OR SURVEY BOUNDARY
=====	PLAT LOT LINE
-----	CENTERLINE
-----	SECTION LINE
-----	1/4 SECTION LINE
-----	1/4-1/4 SECTION LINE
-----	EXISTING LOT LINE
-----	BUILDING SETBACK LINE
( 35 )	OWNER INFORMATION
———— (ROW) ————	EXISTING RIGHT-OF-WAY
— T/E ———— T/E ———— T/E ————	PROPOSED TEMPORARY CONSTRUCTION EASEMENT

### PLANT LEGEND

EXISTING		PROPOSED
☼	DECIDUOUS TREE	☼+
☼	CONIFEROUS TREE	☼
☼	DECIDUOUS SHRUB	☼+
☼	CONIFEROUS SHRUB	☼
☼	TREE STUMP	☼
~~~~~	TREE LINE DRIP EDGE	~~~~~

DRAWN BY: KLH				
CHECKED BY: MGJ				
APPROVED BY: MGJ				
DATE: 05/14/2019				
FIELD BOOK: ---	NO.	REVISION DESCRIPTION	APPROVED	DATE



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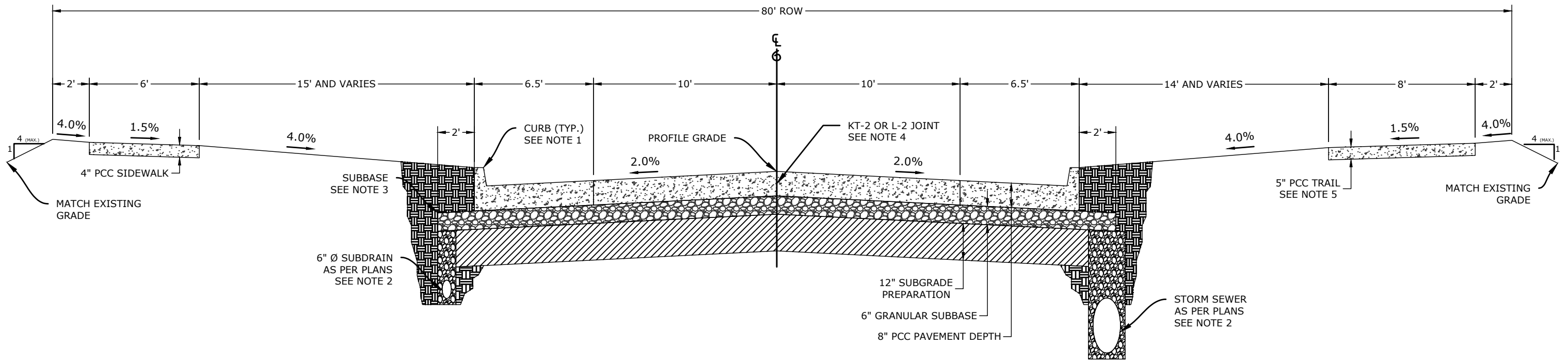
35TH AVENUE AND LEARNING LANE
 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

LEGEND	
SCALE: NO SCALE	PROJECT NO: 10525-1

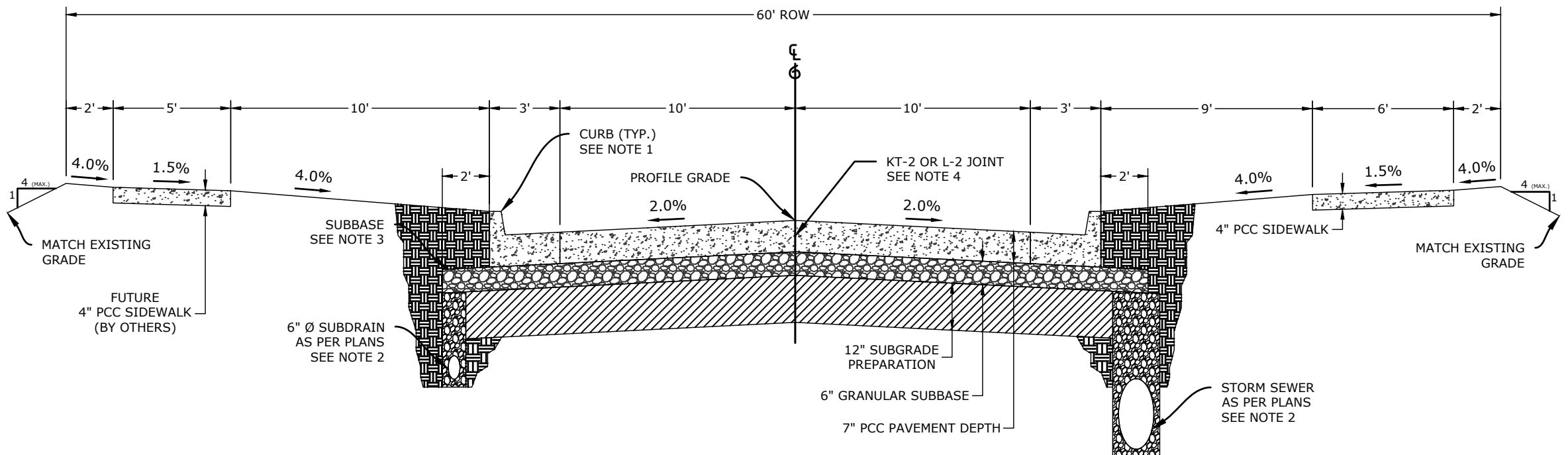
SHEET
A.02

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\A - COVER AND LEGEND.dwg Date Plotted: Wednesday, May 15, 2019 11:34:10 AM Plotted By: Kelda Hankins



35TH AVENUE - TYPICAL CROSS SECTION
33-FT B-B

- NOTES:
1. INTEGRAL CURBING SHALL BE 6" STANDARD CURB PER SUDAS STANDARD ROAD PLAN PV-102.
 2. REFER TO PLANS FOR LOCATION OF SUBDRAINS AND/OR STORM SEWER LINES. WHERE PLANS SHOW THESE LINES UNDER PAVEMENT LONGITUDINALLY, SUBGRADE SHALL BE SHAPED TO DRAIN TO TRENCHES FOR THESE LINES. THIS WORK IS ALSO REQUIRED FOR LINES UNDER INTERSECTION RETURNS. DEPTH OF SUBBASE SHALL BE INCREASED AS REQUIRED FOR THIS WORK.
 3. SUBBASE SHALL BE EXTENDED OVER STORM SEWER AND/OR SUBDRAIN TRENCHES WHERE REQUIRED TO MAINTAIN PROPER SUBBASE DRAINAGE. SUBBASE SHALL BE EXTENDED TO CENTERLINE OF STORM SEWER TRENCH AND COMPLETELY OVER SUBDRAIN TRENCH.
 4. LONGITUDINAL JOINTS SHALL BE LOCATED AT THE CENTERLINE AND 10' OFF CENTERLINE. TRANSVERSE JOINTS SHALL BE C JOINTS FOR 7" PAVEMENT AND CD JOINTS FOR 8" PAVEMENT. MAXIMUM JOINT SPACING IS 15' UNLESS OTHERWISE NOTED.
 5. 8' SIDEWALKS TO BE CONSTRUCTED WITH PUBLIC IMPROVEMENTS.



LEARNING LANE - TYPICAL CROSS SECTION
26-FT B-B

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35TH AVENUE AND LEARNING LANE
PCC PAVING
IN THE CITY OF MARION, LINN COUNTY, IOWA

TYPICAL CROSS SECTIONS
SCALE: NO SCALE
PROJECT NO: 10525-1

SHEET
B.01

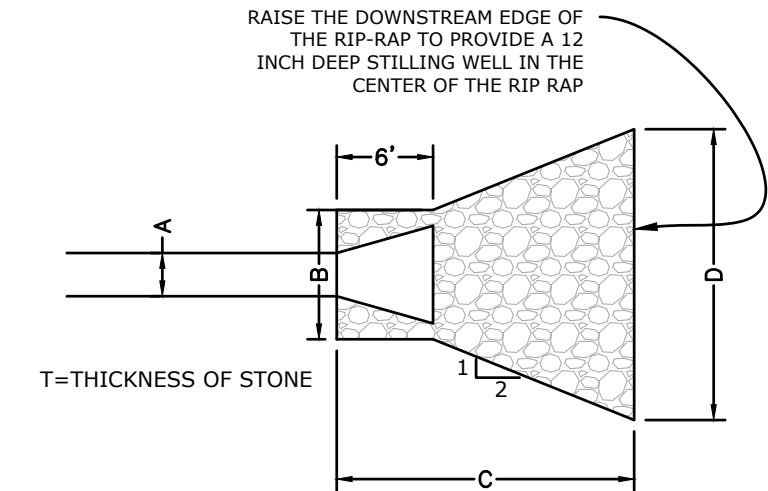
CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\B - TYPICAL.S.dwg Date Plotted: Wednesday, May 15, 2019 11:34:18 AM Plotted By: Kelda Hankins

GENERAL NOTES

- WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAYBE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE -CALL 1-800-292-8989. NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SUDAS, (INCLUDING CITY OF MARION SUPPLEMENTAL SPECIFICATIONS) LATEST EDITION, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48 -72 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY. THE CITY OF MARION SHALL BE THE PUBLIC AGENCY RESPONSIBLE FOR INSPECTION DURING CONSTRUCTION OF THE PUBLIC PORTIONS OF THE PROJECT.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.
- ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SET FORTH AS A SPECIFIC BID ITEM, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- REPAIR OR REPLACE EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- EXISTING CONCRETE DAMAGED DURING CONSTRUCTION (INCLUDING AT STREET EXTENSION LOCATIONS) SHALL BE SAWN CLEAN AND/OR PANELS REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

UTILITY NOTES

- VERIFY THE ELEVATION OF POSSIBLE CONFLICTING UTILITIES PRIOR TO CONSTRUCTING PROPOSED WATER MAINS, SANITARY SEWERS, STORM SEWERS, ETC. ANY CONFLICTS MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
- PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC. TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN AS-BUILTS REGARDING ASPECTS OF THE PROJECT WHICH DIFFER FROM THE CONTRACT DOCUMENTS. THIS INCLUDES BOTH EXISTING FACILITIES ENCOUNTERED AND PROPOSED FACILITIES CONSTRUCTED. THE INFORMATION SHALL INCLUDE LOCATION, DIMENSION AND MATERIAL DATA. THE LOCATION OF UNDERGROUND FACILITIES SHALL BE NOTED IF THEY DIFFER FROM THE PLANS BY MORE THAN 2 FEET HORIZONTALLY AND 0.5 FEET VERTICALLY OR ARE NOT SHOWN. FACILITIES CONSTRUCTED OR ENCOUNTERED ABOVE GROUND SHALL BE NOTED IF THEY DIFFER FROM THE PLANS BY MORE THAN 1 FOOT HORIZONTALLY AND 0.25 FEET VERTICALLY.
- ALL FIRE HYDRANT STATIONING IS TO CENTER OF THE WATER MAIN. CONTRACTOR SHALL INSTALL HYDRANT OFFSET FROM MAIN BASED ON LOCAL JURISDICTION. ALL FIRE HYDRANT'S SHALL INCLUDE TEE AND EXTENSION PIPE (OR REDUCER WHEN APPLICABLE). ASSEMBLIES SHALL ALSO INCLUDE 6" GATE VALVE FOR ALL FIRE HYDRANT'S.
- PIPE LENGTHS FOR STORM AND SANITARY SEWERS ARE GIVEN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTHS FOR WATER MAIN ARE MEASURED BETWEEN CROSSES, OR TEES.
- WHERE WATER MAINS ARE CONSTRUCTED WITHIN 4 FEET OF STORM SEWER INTAKES, CONTRACTOR SHALL INSTALL A MINIMUM OF 2" BLUE BOARD INSULATION OR EQUIVALENT ALONG THE BACK OF INTAKES TO PROTECT WATERMANS FROM FREEZING.
- CONTRACTOR SHALL DEFLECT JOINTS THAT DO NOT EXCEED 5° DEFLECTION & INSTALL FITTINGS AND BENDS AS NECESSARY TO MAINTAIN VERTICAL AND HORIZONTAL ALIGNMENT OF PROPOSED WATERMAIN; ALL BENDS, TEES, ETC. SHALL HAVE ADEQUATE AND APPROPRIATE JOINT RESTRAINTS.
- PRIOR TO WATERMAIN INSTALLATION, THE PROPERTY PINS MUST BE SET AND ALL BENDS MUST BE STAKED WITH STATIONING AND OFFSETS AT PLAN LOCATION.
- AT WATERMAIN CROSSINGS UNDER STORM SEWER: LOCATE ONE FULL LENGTH OF RCP PIPE WITH FLEXIBLE O-RING GASKET. CENTER RCP PIPE SEGMENT OVER MAIN TO MAINTAIN JOINTS AS FAR AS POSSIBLE FROM THE WATERMAIN.
- CONTRACTOR TO USE CORETEN TEE BOLTS FOR ALL FITTINGS AND MARK ALL VALVE BOXES WITH PAINTED BLUE STEEL T-POSTS.



OUTLET EROSION PROTECTION DETAIL
NOT TO SCALE

DIMENSION TABLE						
STM FES #	A	B	C	D	T	STONE TYPE
E3	15"	4'	10'	8'	1.5'	CLASS E
D6	30"	8'	25'	27'	2'	CLASS E

- NOTES**
- FURNISH AND PLACE EROSION PROTECTION BLANKETS WHERE SHOWN ON PLANS WITH THE FOLLOWING APPLICATION:
 - CLASS E REVETMENT STONE PER IDOT STANDARD SPECIFICATION 4130.02 AND FILTER FABRIC PER IDOT STANDARD SPECIFICATION 4196.01C.
 - REFER TO SURFACE RESTORATION PLAN AND SPECIFICATIONS FOR ADDITIONAL REQUIRED EROSION CONTROL MEASURES.

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35TH AVENUE AND LEARNING LANE
 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

GENERAL & UTILITY NOTES

SCALE: NO SCALE PROJECT NO: 10525-1

SHEET
C.01

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 VERSION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND CITY OF MARION SUPPLEMENTAL SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM PLANS OF RECORD. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND MAY NOT SHOWN ON THIS DRAWING.
3. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
5. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
6. NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48 - 72 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY. THE CITY OF MARION, IOWA SHALL BE THE PUBLIC AGENCY RESPONSIBLE FOR INSPECTION DURING CONSTRUCTION OF THE PUBLIC PORTIONS OF THE PROJECT.
7. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
8. PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION AND THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS.
9. ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE (IF APPLICABLE). ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
10. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR BUILDING DIMENSIONS, STOOP SIZES AND LOCATIONS, AND BUILDING UTILITY ENTRANCE LOCATIONS, SIZES, AND ELEVATIONS.
11. REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF IOWA.

UTILITY NOTES

1. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 VERSION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND CITY OF MARION SUPPLEMENTAL SPECIFICATIONS AS APPROVED BY THE IOWA DNR, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. VERIFY THE ELEVATION OF POSSIBLE CONFLICTING UTILITIES PRIOR TO CONSTRUCTING PROPOSED WATER MAINS, SANITARY SEWERS, STORM SEWERS, ETC. ANY CONFLICTS MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.
3. SITEWORK UTILITY CONTRACTOR TO EXTEND ALL PIPING TO WITHIN 5' OF BUILDING AND CAP FOR CONNECTION BY BUILDING UTILITY CONTRACTOR UNLESS OTHERWISE INDICATED. COORDINATE ALL INVERT ELEVATIONS AND PIPING LOCATIONS WITH BUILDING PLANS.
4. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.
5. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR UTILITY ENTRANCE LOCATIONS, SIZES, AND ELEVATIONS PRIOR TO BEGINNING UTILITY CONSTRUCTION.

SANITARY SEWER NOTES

1. SANITARY SEWER CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE 2019 VERSION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND CITY OF MARION SUPPLEMENTAL SPECIFICATIONS.
2. SANITARY SEWER GRAVITY MAINS 8 INCH IN DIAMETER SHALL BE PVC TRUSS PIPE COMPLYING WITH ASTM D 2680. PIPE STIFFNESS PER ASTM D2412, 200 PSI. PVC PLASTIC MEETING ASTM D 1784, CELL CLASSIFICATION 12454. INTEGRAL AND SPIGOT JOINTS WITH ELASTOMERIC SEALS COMPLYING WITH ASTM 3212 AND F 477.
3. SANITARY SEWER SERVICE PIPE AND FITTINGS SHALL BE SDR 23.5 POLYVINYL CHLORIDE (PVC), AND SHALL CONFORM TO ASTM D3034 WITH A MINIMUM PIPE STIFFNESS OF 153 PSI (ASTM D2412) PER THE 2017 VERSION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND CITY OF MARION SUPPLEMENTAL SPECIFICATIONS.
4. CLASS F-2 BEDDING SHALL BE USED FOR SANITARY SEWER CONSTRUCTION. COMPACTED BACKFILL IN PIPE ENVELOPE MAY BE SUITABLE EXCAVATED MATERIAL.

TRENCH, BEDDING, AND BACKFILL NOTES

1. TRENCH WIDTH REQUIREMENTS BELOW THE TOP OF THE PIPE SHALL NOT BE LESS THAN 12 INCHES NOR MORE THAN 18 INCHES WIDER THAN OUTSIDE SURFACE OF ANY PIPE, CONDUIT OR CABLE, AND SHALL BE THE LEAST PRACTICAL WIDTH THAT WILL ALLOW FOR COMPACTION OF TRENCH BACKFILL.
2. TRENCH STABILIZATION MATERIAL IF REQUIRED SHALL BE CRUSHED ROCK OR OTHER APPROVED MATERIAL WITH 100% PASSING THE 3" SIEVE AND 25%-95% PASSING THE 1" SIEVE. THIS MATERIAL SHALL HAVE A MAXIMUM FREE-THAW LOSS OF 15% WHEN TESTED IN ACCORDANCE WITH LABORATORY TEST METHOD 211, METHOD C. THE PLASTICITY INDEX SHALL NOT EXCEED 5.
3. ACCURATELY GRADE TRENCH BOTTOM TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF PIPE ON BEDDING MATERIAL AT EVERY JOINT ALONG ENTIRE LENGTH, EXCEPT WHERE NECESSARY TO EXCAVATE FOR BELL HOLES, PROPER SEALING OR PIPE JOINTS OR OTHER REQUIRED CONNECTIONS. DIG BELL HOLES AND DEPRESSIONS FOR JOINTS AFTER TRENCH BOTTOM HAS BEEN GRADED. DIG NO DEEPER, LONGER, OR WIDER THAN NEEDED TO MAKE PROPER JOINT CONNECTION.
4. ALL TRENCH EXCAVATION SIDE WALLS GREATER THAN 5 FEET IN DEPTH SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED BY MEANS OF SUFFICIENT STRENGTH TO PROTECT THE WORKMEN WITHIN THEM IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS ESTABLISHED FOR CONSTRUCTION. THE DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA), AND BY LOCAL ORDINANCES. LATERAL TRAVEL DISTANCE TO AN EXIT LADDER OR STEPS SHALL NOT BE GREATER THAN 25 FEET IN TRENCHES 4 FEET OR DEEPER.
5. GRANULAR BEDDING AGGREGATE FOR STORM AND SANITARY PIPE SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE:	1-1/2	1	3/4	1/2	3/8	4	8
% PASSING:	100	95-100	50-100	20-65	10-65	0-20	0-8
6. IF ON-SITE MATERIAL IS UNSUITABLE, UTILITY TRENCHES BENEATH PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR MATERIAL MEETING THE FOLLOWING GRADATION:

SIEVE SIZE	1	3/4	4	8	30	200
% PASSING:	100	85-100	30-75	20-60	15-40	0-16
7. PLACE TRENCH AND STRUCTURE EXCAVATION BACKFILL 12 INCHES OR MORE ABOVE TOP OF PIPE IN 7 INCH MAXIMUM LIFTS AND COMPACT TO 85% STANDARD PROCTOR DRY DENSITY (ASTM D698) IN UNSURFACED AREAS AND TO 95% STANDARD PROCTOR DRY DENSITY IN SURFACED AREAS. INSTALL A MINIMUM CUSHION OF 2 FEET OF COMPACTED BACKFILL ABOVE PIPE ENVELOPE BEFORE USING HEAVY COMPACTION EQUIPMENT.
8. HAND PLACE AND COMPACT BACKFILL MATERIAL TO 12 INCHES ABOVE TOP OF PIPE TO 95% STANDARD PROCTOR DRY DENSITY (ASTM D698) IN SURFACED AREAS AND TO 90% STANDARD PROCTOR DRY DENSITY IN UNSURFACED AREAS.
9. STORM SEWER TRENCHES MAY BE BACKFILLED WITH NATIVE EXCAVATED MATERIAL, IF SUITABLE.
10. THE CONTRACTOR SHALL MAKE PROVISIONS TO HANDLE WATER ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE OF THE PROPOSED METHOD OF DEWATERING.

GRADING NOTES

1. STRIP EXISTING VEGETATION WITHIN THE GRADING LIMITS AND AREAS TO RECEIVE FILL. DISPOSE OF OFF SITE.
2. STRIP TOPSOIL WITHIN THE GRADING LIMITS. STOCKPILE TOPSOIL ON-SITE. TOPSOIL SHALL REMAIN PROPERTY OF THE OWNER AND REMAIN ON-SITE.
3. PROOF ROLL ALL FILL AREAS TO IDENTIFY SOFT OR DISTURBED AREAS IN THE SUBGRADE. ALL UNSUITABLE MATERIAL IDENTIFIED SHALL BE REMOVED AND RECOMPACTED. PROOFROLL WITH 25 TON MINIMUM GROSS VEHICLE WEIGHT.
4. REMOVE AND RECOMPACT AREAS OF SUBGRADE WHICH ARE SOFT OR UNSTABLE TO MEET SPECIFIED LIMITS FOR DENSITY AND MOISTURE CONTENT.
5. IF SUITABLE SCARIFY EXISTING SUBGRADE TO A DEPTH OF 9 INCHES AND RECOMPACT TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698) PRIOR TO PLACEMENT OF FILL.
6. DO NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS.
7. PLACE FILL MATERIAL IN 9" MAXIMUM LIFTS.
8. FILL MATERIAL OBTAINED FROM OFF-SITE SOURCES SHALL BE SOIL OR SOIL AND ROCK MIXTURE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTAIN NO ROCKS OR LUMPS OF 3 INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS SHALL BE LARGER THAN 2-1/2 INCHES IN GREATEST DIMENSION.
9. SCARIFY AND RECOMPACT THE TOP 9" OF SUBGRADE IN ALL CUT AREAS AFTER ROUGH GRADING IS COMPLETED. COMPACT THE ENTIRE PAVING AND BUILDING SUBGRADE TO 95% STANDARD PROCTOR DRY DENSITY TO WITHIN 1.0' OF FINAL SUBGRADE. THE FINAL 1.0' OF FILL TO BE COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY (ASTM D698).

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 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

GENERAL & UTILITY NOTES

SCALE: NO SCALE PROJECT NO: 10525-1

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GRADING NOTES CONTINUED

10. IN AREAS TO RECEIVE ADDITIONAL FILL OVER EXISTING FILL MATERIALS. REMOVE TOP 12" OF MATERIAL AND SCARIFY AND RECOMPACT THE NEXT 9" OF RESULTING SUBGRADE. COMPACT RESULTING SUBGRADE TO 95% STANDARD PROCTOR DRY DENSITY.
11. FILL PLACED WITHIN THE BUILDING AREA AND IN AREAS TO BE PAVED SHOULD CONSIST OF APPROVED MATERIALS WHICH ARE FREE OF ORGANIC MATTER AND DEBRIS. THE FILL SHOULD BE PLACED AND COMPACTED IN LIFTS OF 9 INCHES OR LESS IN LOOSE THICKNESS. FILL PLACED ABOVE SHALLOW FOOTING BASE ELEVATION FOR FLOOR SLAB SUPPORT IN THE BUILDING AREA AND MORE THAN 12 INCHES BELOW FINISHED SUBGRADE ELEVATION IN AREAS TO BE PAVED SHOULD BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DRY DENSITY (ASTM D698). THE UPPER 12 INCHES OF SUBGRADE IN AREAS TO BE PAVED AND FILL PLACED BELOW SHALLOW FOOTING BASE ELEVATION IN THE BUILDING AREA SHOULD BE COMPACTED TO AT LEAST 98% STANDARD PROCTOR DRY DENSITY (ASTM D-698). THE HIGHER DEGREE OF FILL COMPACTION BELOW FLOORINGS IN THE BUILDING AREAS SHOULD EXTEND Laterally BEYOND THE EXTERIOR EDGES OF PERIMETER FOOTINGS AT LEAST 8 INCHES PER FOOT BELOW FOOTING BASE ELEVATION.
12. FINISH CONTOURS SHOWN ARE TO TOP OF SUBGRADE ELEVATION.
13. ALL GRADING SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT "GEOTECHNICAL & ENGINEERING REPORT", INTERMEDIATE SCHOOL SITE 35TH AVENUE -MARION, IOWA. DATED FEBRUARY 8, 2019, TERRECON PROJECT NO. 06185163A.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED PER THE APPROVED PLAN AND DETAILS/SPECIFICATIONS, PER THE STORM WATER POLLUTION PREVENTION PLAN AND AS DEEMED NECESSARY BY THE JURISDICTIONAL ENGINEER.
2. PERIMETER EROSION CONTROL METHODS SHALL BE IN PLACE PRIOR TO AREAS BEING DISTURBED.
3. EROSION CONTROL DEVICES SHALL BE CHECKED BY THE GENERAL CONTRACTOR EVERY SEVEN (7) DAYS AND AFTER EACH RAINFALL EVENT EQUAL TO 1/2" OR GREATER TO ENSURE WORKING ORDER.
4. REPAIRS TO SOIL EROSION CONTROL DEVICES DEEMED NECESSARY SHALL BE COMPLETED IMMEDIATELY UPON NOTIFICATION OR WITHIN 24 HOURS IF WEATHER DELAYS.
5. THE CONTRACTOR SHALL STRIP AND STOCKPILE THE TOPSOIL ON-SITE. ALL TOPSOIL SHALL REMAIN PROPERTY OF THE OWNER AND SHALL REMAIN ON-SITE.
6. WHEN CONSTRUCTION ACTIVITIES ARE COMPLETE PROVIDE TEMPORARY SEEDING IN DISTURBED AREAS WHERE OPERATIONS WILL NOT COMMENCE OR PERMANENT SEEDING WILL NOT BE COMPLETED FOR A PERIOD OF 14 DAYS OR MORE.
7. SILT FENCES, IF USED, SHALL BE INSTALLED PER SUDAS FIGURE 9040.119. ADDITIONAL SILT FENCE SHALL BE INSTALLED AS NECESSARY BY THE CONTRACTOR. MAINTENANCE AND/OR REPLACEMENT OF THE SILT FENCE IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCE, COMPOST SOCKS OR EQUIVALENT AROUND ALL INTAKES. EROSION CONTROL SOCKS OR EQUIVALENT SHALL BE USED AT STREET INTAKES EROSION SOCKS SHALL BE MAINTAINED UNTIL THE SITE HAS BEEN STABILIZED.
9. THE DETAILS SHOWN HEREIN DESCRIBES VARIOUS METHODS OF CONSTRUCTION WHICH MAY BE REQUIRED FOR THE CONTROL OF SILTATION ON THE PROJECT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING THE REQUIRED CONSTRUCTION WORK ON THIS PROJECT IN SUCH A MANNER AS TO EFFECTIVELY MINIMIZE AND CONTROL THE WATER POLLUTION WHICH MIGHT BE CAUSED BY SOIL EROSION FROM THE PROJECT. IT IS INTENDED THAT THESE FEATURES BE MAINTAINED IN APPROPRIATE FUNCTIONAL CONDITION FROM INITIAL CONSTRUCTION STAGES TO FINAL COMPLETION OF PROJECT.
11. IN ADDITION TO THE DETAILS SHOWN, OTHER PROVISIONS FOR CONTROLLING EROSION MAY BE INCORPORATED INTO THE PROJECT WORK.
12. CONTRACTOR TO REGULARLY CLEAN STREETS/DRIVES OF SOIL TRACKED FROM SITE WITHIN A PERIOD OF 24 HOURS.
13. CONTRACTOR SHALL PROTECT ROW AND COORDINATE ANY WORK AFFECTING NEIGHBORING PROPERTIES.
14. PROVIDE SILT FENCE OR EQUIVALENT AT ALL AREAS WHERE EROSION MAY BE POSSIBLE TO LEAVE SITE BASED ON CONTRACTORS CONSTRUCTION ACTIVITIES.
15. ALL MATERIALS HAULED OFF-SITE SHALL BE SECURED TO PREVENT LITTERING.

SURFACE RESTORATION NOTES

1. AFTER INSTALLATION OF STORM SEWER SYSTEM AND BACKFILLING OPERATIONS. GRADE SHALLOW SWALE PER DETAIL THIS SHEET, AND RESTORE EXISTING ERODED CHANNEL.
2. SEED, FERTILIZE AND MULCH IN ACCORDANCE WITH SUDAS. SEED WITH EROSION CONTROL MIX, SUDAS TYPE 2 PERMANENT COOL SEASON MIXTURE FOR SLOPES AND DITCHES (OR APPROVED EQUAL).
3. INSTALL EROSION CONTROL BLANKET (WOOD EXCELSIOR MAT) OVER ALL DISTURBED AREAS.
4. SEED BETWEEN MARCH 1 AND MAY 31 AND BETWEEN AUGUST 10 AND SEPTEMBER 30

STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) STANDARD DETAILS FOR PUBLIC IMPROVEMENTS	
ITEM	REFERENCE #
TRENCH BEDDING AND BACKFILL ZONES	3010.101
RIGID GRAVITY PIPE TRENCH BEDDING	3010.102
FLEXIBLE GRAVITY PIPE TRENCH BEDDING	3010.103
CIRCULAR SANITARY SEWER MANHOLE	6010.301
CHIMNEY SEALS FOR SANITARY SEWER MANHOLES	6010.306
CASTINGS FOR SANITARY SEWER MANHOLES	6010.601
FILTER BERM & FILTER SOCK	9040.102
ROLLED EROSION CONTROL PRODUCT (RECAP) INSTALLATION ON SLOPES	9040.103
ROLLED EROSION CONTROL PRODUCT (RECAP) INSTALLATION IN CHANNEL	9040.104
SILT FENCE	9040.119
STABILIZED CONSTRUCTION ENTRANCE	9040.120

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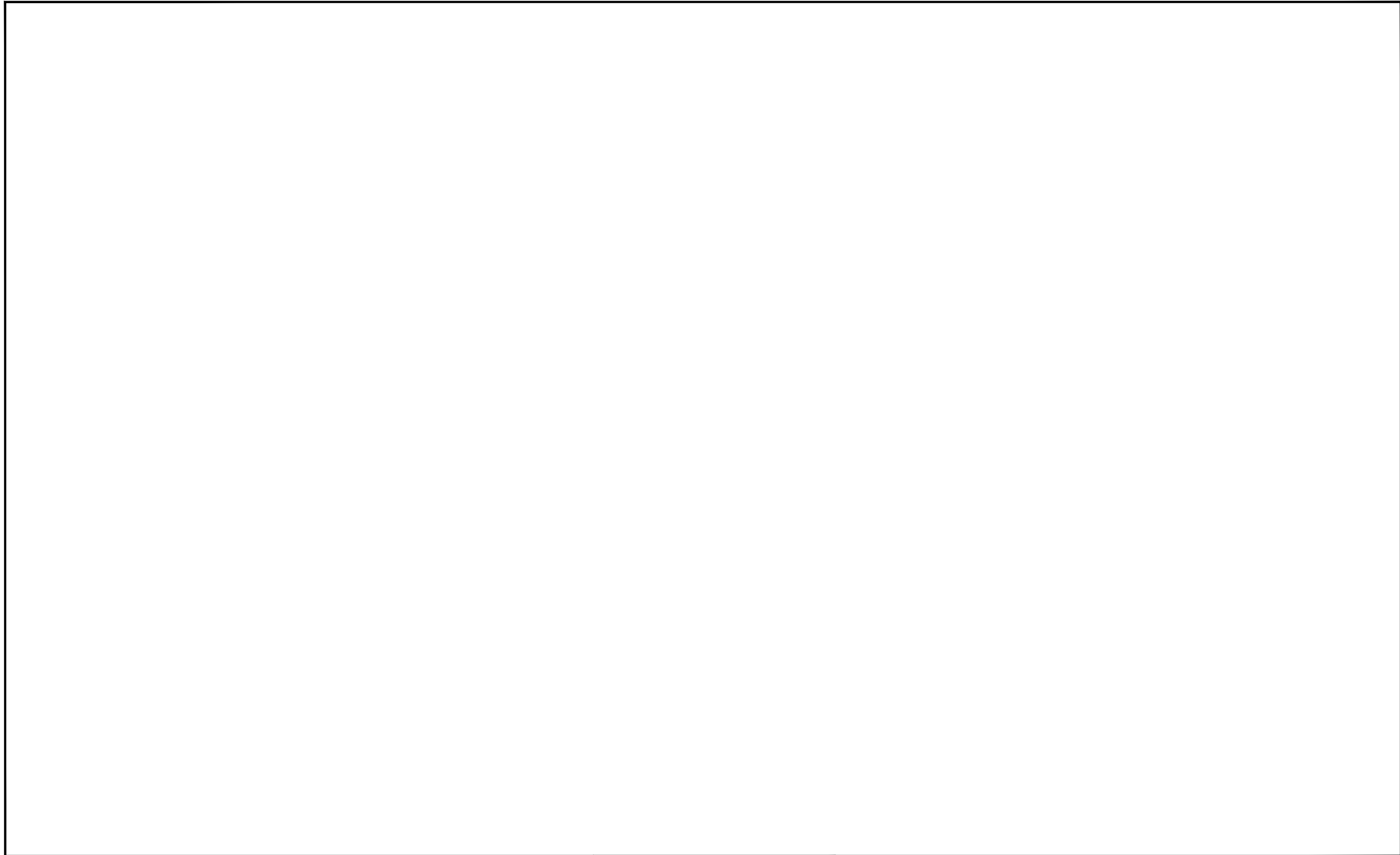
35TH AVENUE AND LEARNING LANE
 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

GENERAL & UTILITY NOTES

SCALE: NO SCALE PROJECT NO: 10525-1

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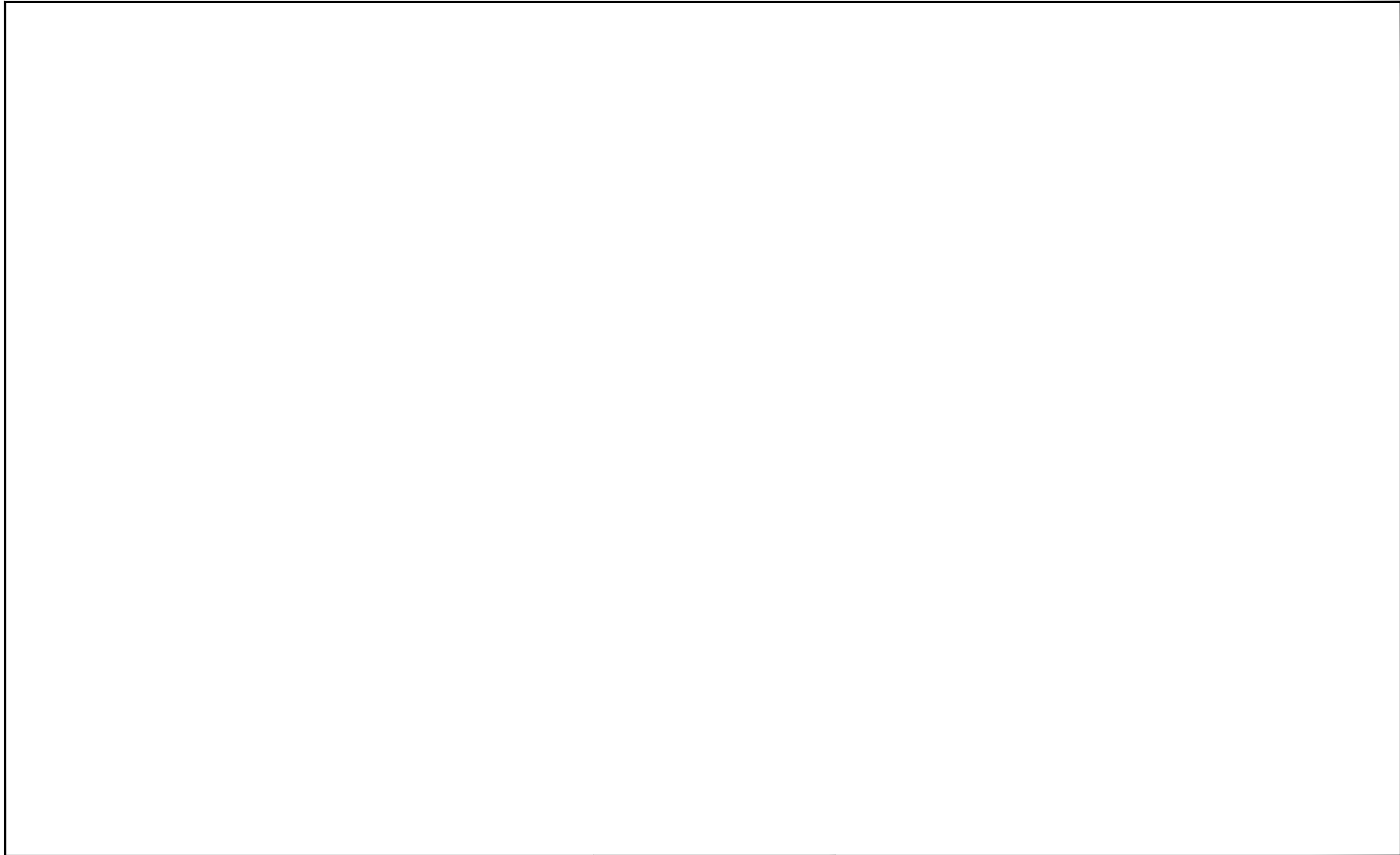
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ESTIMATED PROJECT QUANTITIES

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IN THE CITY OF MARION, LINN COUNTY, IOWA

ESTIMATED PROJECT QUANTITIES

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REMOVAL OF STORM SEWER STRUCTURES			
STATION	OFFSET	TYPE	COMMENTS
1+12.35	22.3' LT	FES	PCC
1+27.13	23.6' RT	FES	PCC
11+67.02	15.0' LT	FES	METAL
11+68.76	17.6' RT	FES	METAL
13+65.28	22.6' LT	FES	METAL
14+06.54	23.0' LT	FES	METAL
TOTAL		6	

REMOVAL OF STORM SEWER					
STA TO STA	SIDE	LENGTH (FT)	TYPE	DIA (IN)	COMMENTS
0+95.82	1+12.35	17.1	RCP	15	
0+95.16	1+27.13	32.5	RCP	15	
11+67.02	11+68.76	32.7	CMP	24	
13+65.28	14+06.54	41.3	CMP	15	
TOTAL		123.6			

SILT FENCE				
STA	STA	SIDE	LENGTH (LF)	COMMENTS
TOTAL			0	

PCC PAVEMENT				
STA TO STA	AREA (SY)	THICKNESS (IN)	COMMENTS	
1+00.00	14+22.41	4818	8	35TH AVENUE
0+39.50	8+61.84	2284	8	LEARNING LANE
TOTAL		7102		

PCC DRIVEWAYS, ENTRANCES, AND INTERSECTIONS					
ADDRESS	SIDE	AREA (SY)	THICKNESS (IN)	COMMENTS	
N/A	35TH AVENUE	103	8	FUTURE SOUTH SCHOOL ENTRANCE	
N/A	35TH AVENUE	106	8	35TH AVE & FUTURE STREET INTERSECTION	
N/A	LEARNING LANE	193	8	35TH AVE & LEARNING LN INTERSECTION	
N/A	LEARNING LANE	79	8	FUTURE NORTH SCHOOL ENTRANCE 1	
N/A	LEARNING LANE	67	8	FUTURE NORTH SCHOOL ENTRANCE 2	
N/A	LEARNING LANE	79	8	FUTURE NORTH SCHOOL ENTRANCE 3	
TOTAL		627			

REINFORCING STEEL, EPOXY COATED					
STA	PIPE CROSSING	COUNT	BAR SIZE	LENGTH (LF)	WEIGHT (LBS)
			5		
			5		
			5		
TOTAL					0

SUBDRAIN				
STRUCTURE START	STRUCTURE END	LENGTH (FT)	DIA (IN)	COMMENTS
INT-103 (EX)	CO-01	113.1	6	
INT-504	CO-02	112.5	6	
CO-03	INT-101	290.1	6	
CO-04	INT-102	290.1	6	
INT-102	INT-202	317.2	6	
INT-201	INT-301	176.1	6	
INT-202	INT-302	176.1	6	
INT-302	CO-06	196.4	6	
INT-301	CO-05	196.4	6	
CO-06	INT-200 (EX)	196.4	6	
CO-05	INT-201 (EX)	196.9	6	
INT-501	CO-07	243.3	6	
INT-502	CO-08	243.3	6	
CO-07	INT-601	243.8	6	
CO-08	INT-602	243.8	6	
INT-602	INT-702	280.1	6	
TOTAL		3515.6		

SUBDRAIN CLEANOUTS			
STRUCTURE	STATION	OFFSET	COMMENTS
CO-01	2+08.76	17.5' RT	
CO-02	2+08.76	17.5' LT	
CO-03	2+38.54	17.5' RT	
CO-04	2+38.54	17.5' LT	
CO-05	12+33.98	17.5' RT	
CO-06	12+33.98	17.5' LT	
CO-07	3+24.05	14.0' RT	
CO-08	3+24.05	14.0' LT	
TOTAL	8		

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QUANTITY TABLES	
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PCC SIDEWALK, 4" AND SIDEWALK RAMPS							
STA TO STA	SIDE	STREET	PCC SIDEWALK, 4" (SY)	PCC SIDEWALK, LANDING (SY)	PCC SIDEWALK, RAMP (SY)	COMMENTS	
0+56.83	0+85.58	LT	35TH AVE	10	4	7	
1+01.85	8+89.56	RT	35TH AVE	674	17	34	
1+13.86	5+63.51	LT	35TH AVE	280	8	14	
5+89.89	14+22.51	LT	35TH AVE	539	9	24	
9+15.94	14+22.41	RT	35TH AVE	437	5	10	
0+44.76	8+61.84	LT	LEARNING LN	674	0	7	
0+44.79	2+16.28	RT	LEARNING LN	674	4	17	
2+45.67	5+96.38	RT	LEARNING LN	674	14	18	
6+22.21	7+55.22	RT	LEARNING LN	674	7	19	
7+86.61	8+61.84	RT	LEARNING LN	674	4	10	
TOTAL			5310	72	160		

SIGNS AND POSTS									
NO.	DESCRIPTION	MUTCD DSIGNATION	STATION	OFFSET	SIZE	AREA (SF)	POSTS	ANCHOR	COMMENTS
1									
2									
3									
4									
TOTAL						0	0		

STORM SEWER										
STRUCTURE NO.	LOCATION STATION & OFFSET	TYPE	F/G ELEV.	PIPE NO.	FLOW	MATERIAL	DIA (IN)	LENGTH (FT)	SLOPE (%)	FL I
INT-601	105+40.90, 14.0' RT	SW-507	866.53	PIPE-602 PIPE-601	IN OUT	RCP CL III RCP CL III	15 15	28.0 310.4	0.70% 0.50%	8
INT-602	105+40.90, 14.0' LT	SW-507	866.53	PIPE-602	OUT	RCP CL III	15	28.0	0.70%	8
INT-502	100+78.30, 14.0' LT	SW-507	865.92	PIPE-502 PIPE-503	IN OUT	RCP CL III RCP CL III	15 15	28.0 36.0	1.00% 1.00%	8
INT-501	100+78.30, 14.0' RT	SW-507	865.91	PIPE-501 PIPE-502	IN OUT	RCP CL III RCP CL III	15 15	15.0 28.0	0.50% 1.00%	8
INT-504	100+41.56, 6.1' LT	SW-501 & 603 (Q)	864.89	PIPE-503	IN	RCP CL III	15	36.0	1.00%	8
INT-701	108+55.34, 14.0' RT	SW-507	864.54	PIPE-702 PIPE-601 PIPE-701	IN IN OUT	RCP CL III RCP CL III RCP CL III	15 15 15	28.0 310.4 15.2	1.00% 0.50% 0.83%	8
INT-702	108+55.34, 14.0' LT	SW-507	864.54	PIPE-702	OUT	RCP CL III	15	28.0	1.00%	8
INT-102	5+31.97, 17.5' LT	SW-507	864.34	PIPE-102 PIPE-101	IN OUT	RCP CL III RCP CL III	15 15	35.0 317.3	0.80% 0.61%	8
INT-101	5+32.00, 17.5' RT	SW-507	864.34	PIPE-102	OUT	RCP CL III	15	35.0	0.80%	8
FES-304	11+59.35, 43.8' LT	FES	861.88	PIPE 303	OUT	RCP CL III	15	36.7	9.31%	8
INT-201	8+53.28, 17.5' RT	SW-507	861.85	PIPE-202	OUT	RCP CL III	15	35.0	1.00%	8
INT-202	8+53.28, 17.5' LT	SW-507	861.83	PIPE-202 PIPE 203 PIPE-201	IN IN OUT	RCP CL III RCP CL III RCP CL III	15 15 21	35.0 22.3 330.4	1.00% 0.50% 0.31%	8
INT-302	11+87.70, 17.5' LT	SW-507	859.73	PIPE 303 PIPE-201 PIPE-302	IN IN OUT	RCP CL III RCP CL III RCP CL III	15 21 21	36.7 330.4 35.0	9.31% 0.31% 0.40%	8
INT-301	11+87.71, 17.5' RT	SW-507	859.73	PIPE-302 PIPE-301	IN OUT	RCP CL III RCP CL III	21 21	35.0 27.7	0.40% 0.50%	8
INT-303	11+87.73, 48.2' RT	SW-512	858.98	PIPE-301 PIPE 401	IN OUT	RCP CL III HDPE	21 8	27.7 248.0	0.50% 0.50%	8

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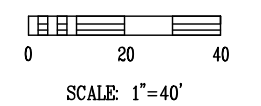
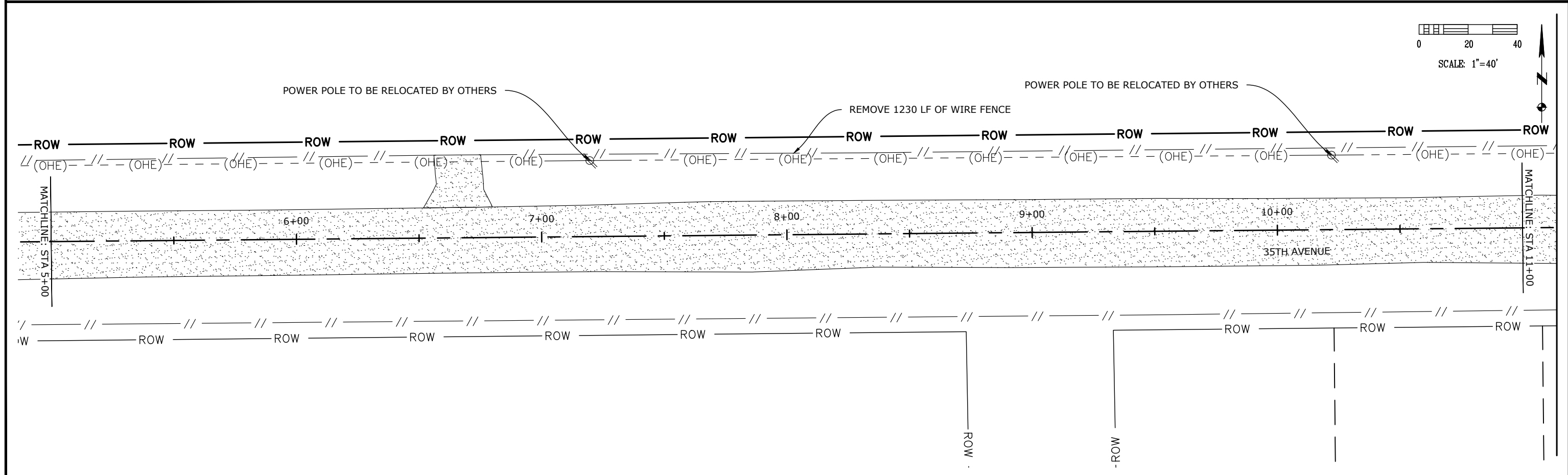
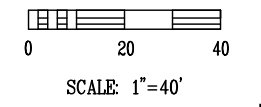
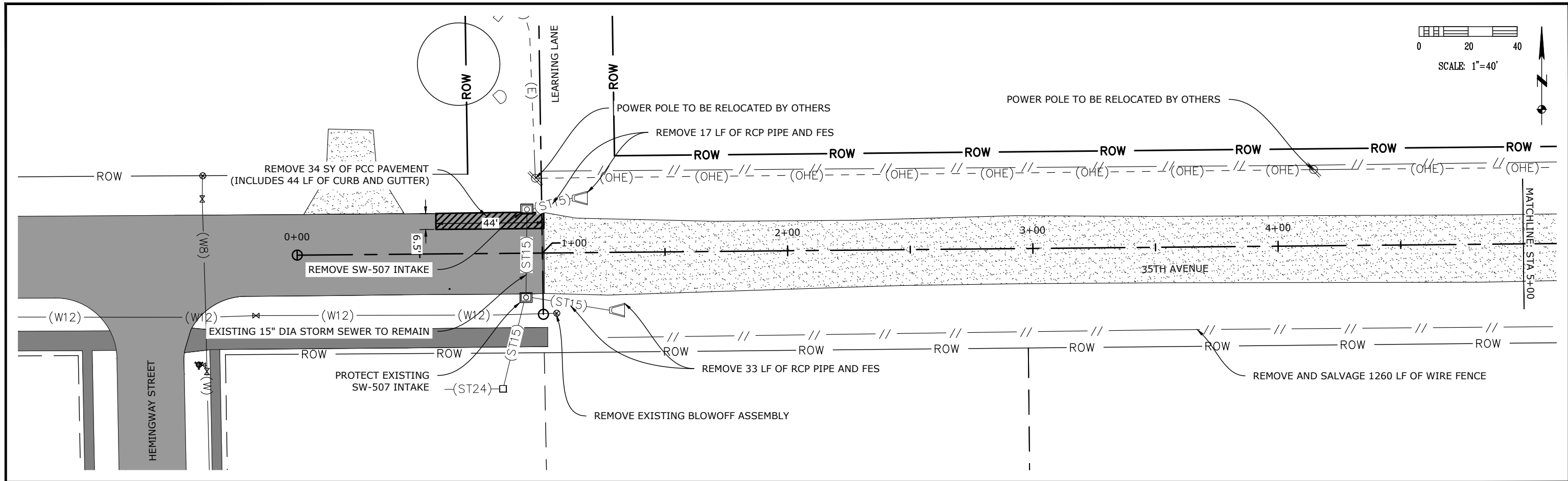
35TH AVENUE AND LEARNING LANE
 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

QUANTITY TABLES	
SCALE: NO SCALE	PROJECT NO: 10525-1

SHEET
C.05

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\C3 - QTY TABLES.dwg Date Plotted: Wednesday, May 15, 2019 11:34:55 AM Plotted By: Kelda Hankins



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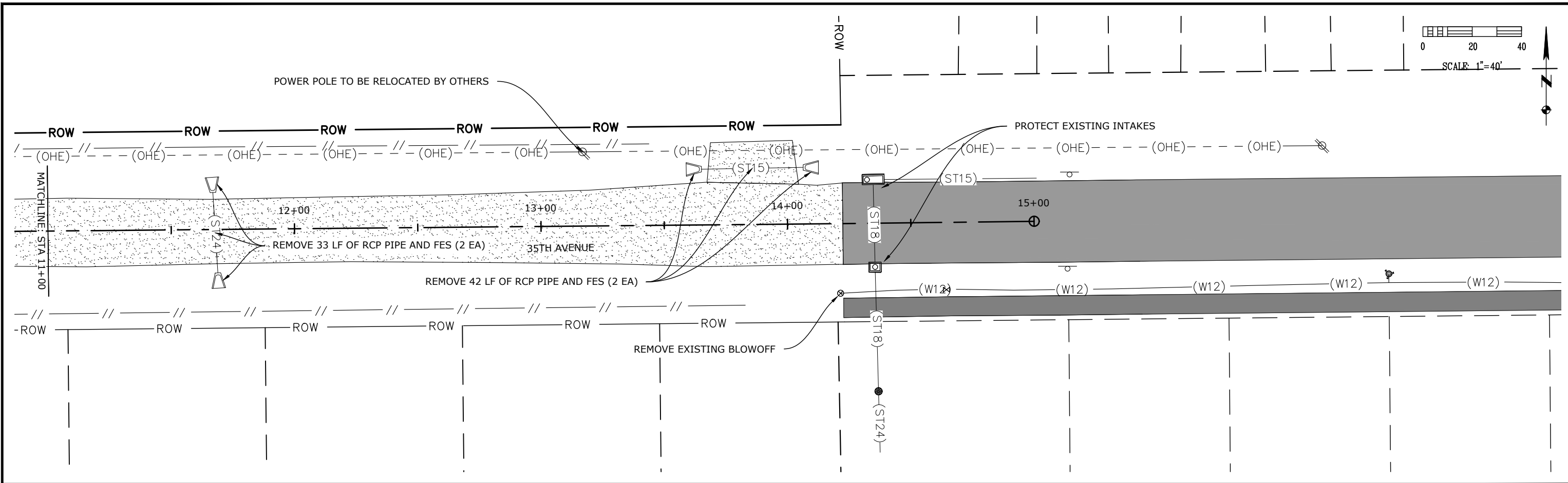
IN THE CITY OF MARION, LINN COUNTY, IOWA

DEMOLITION & REMOVAL PLAN
35TH AVENUE

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
C.10

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\C4 - DEMO.dwg Date Plotted: Wednesday, May 15, 2019 11:35:20 AM Plotted By: Kelda Hankins



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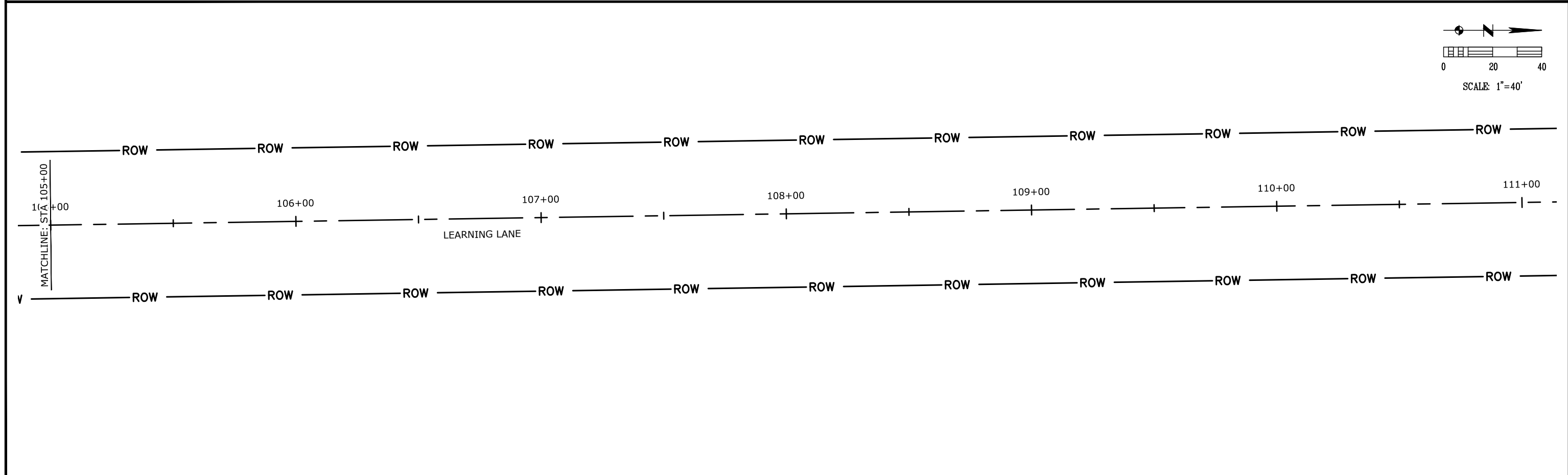
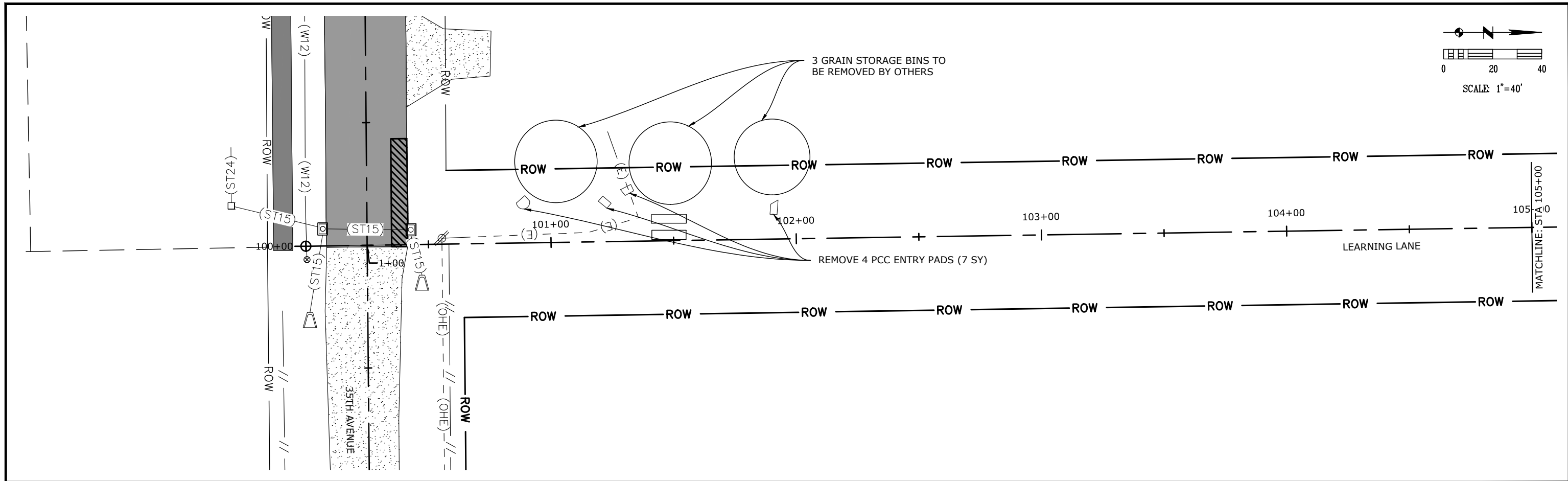
IN THE CITY OF MARION, LINN COUNTY, IOWA

**DEMOLITION & REMOVAL PLAN
 35TH AVENUE**

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
C.11

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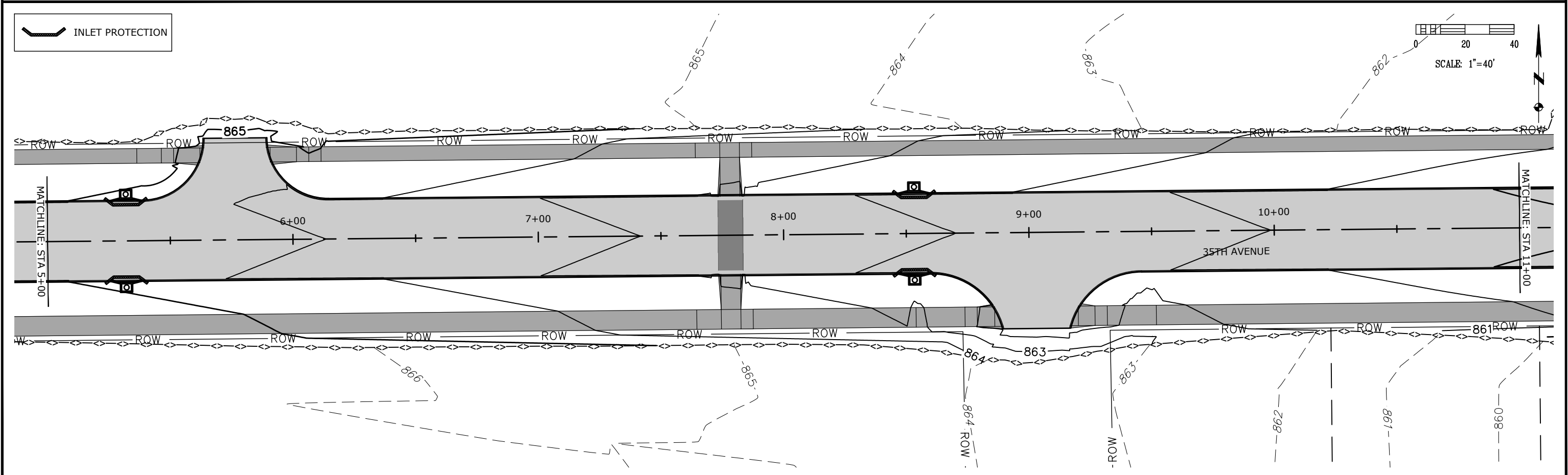
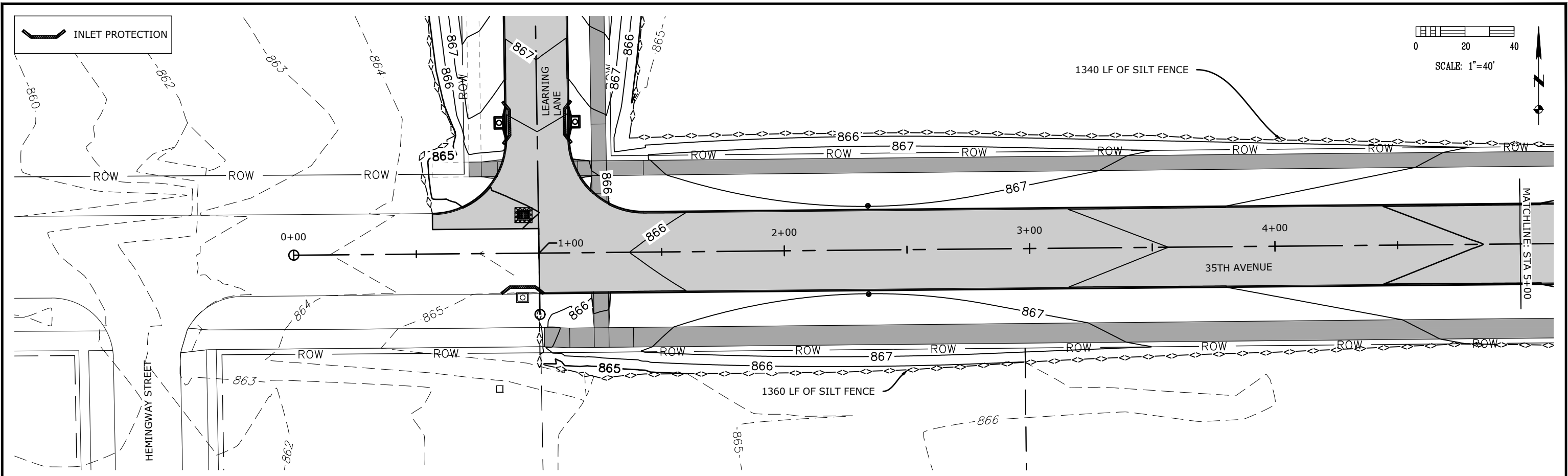
IN THE CITY OF MARION, LINN COUNTY, IOWA

DEMOLITION & REMOVAL PLAN
LEARNING LANE

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
C.12

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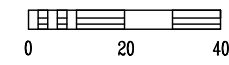
**35TH AVENUE AND LEARNING LANE
 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

**GRADING & EROSION
 CONTROL PLAN - 35TH
 AVENUE**
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

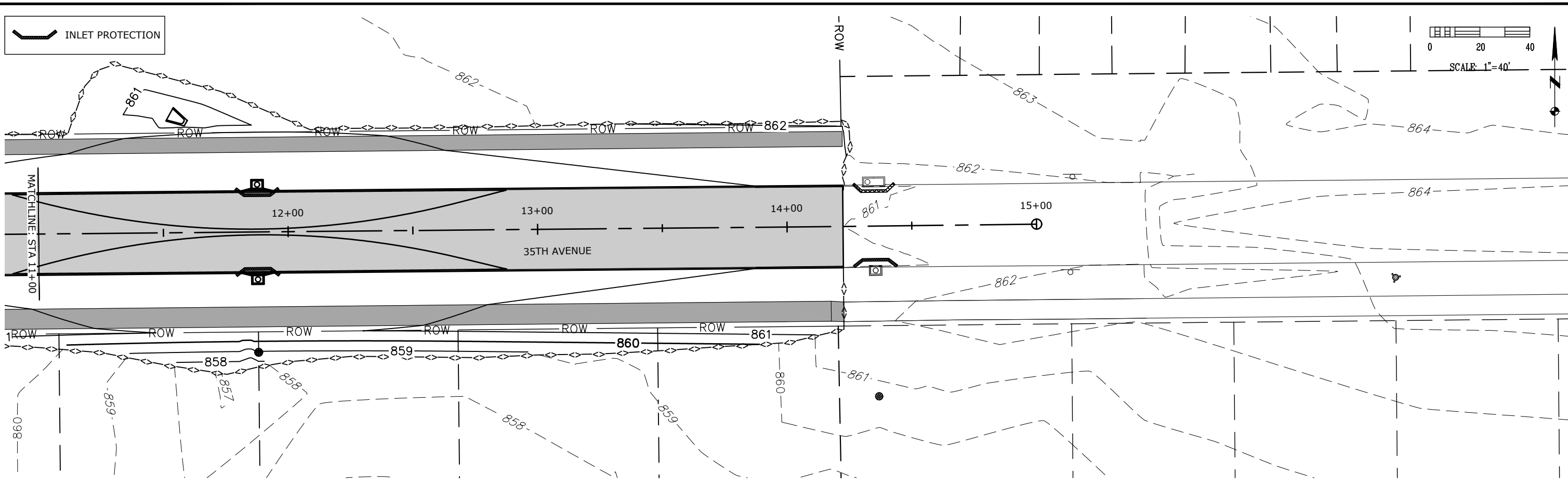
SHEET
C.20

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INLET PROTECTION



SCALE: 1" = 40'



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PCC PAVING

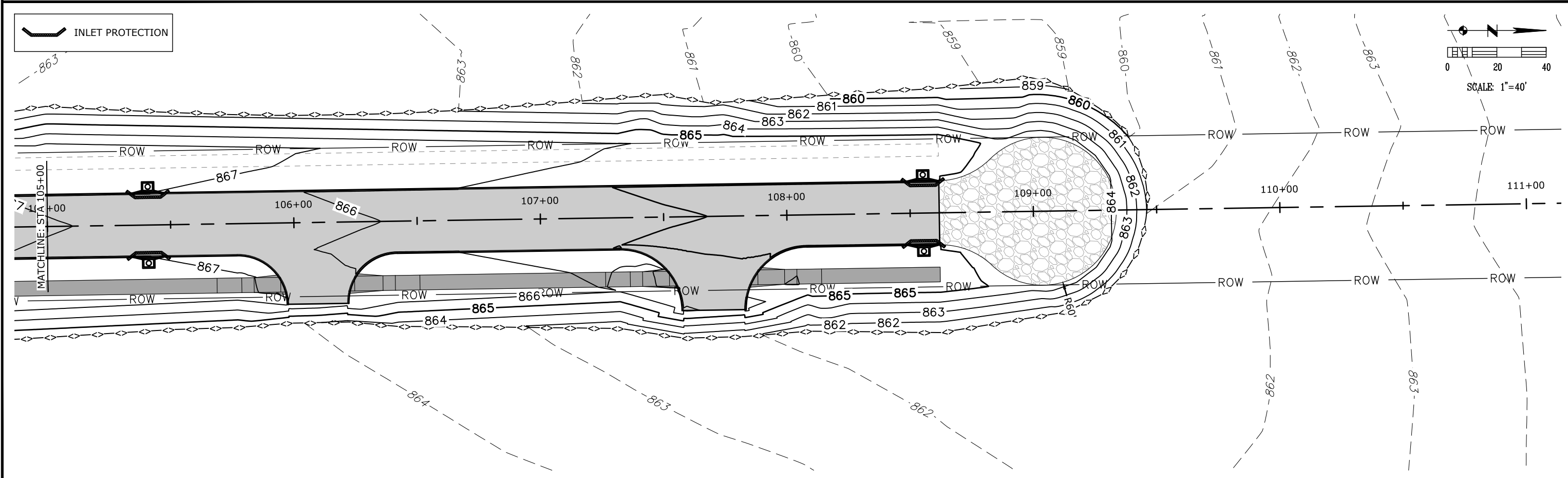
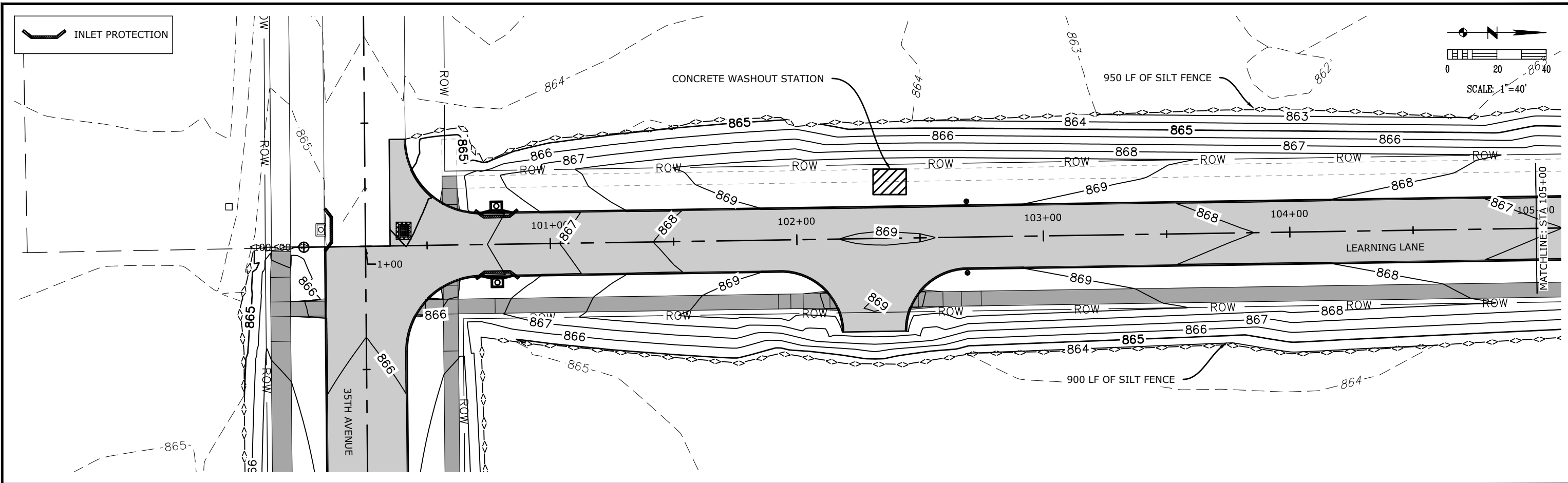
IN THE CITY OF MARION, LINN COUNTY, IOWA

GRADING & EROSION
CONTROL PLAN - 35TH
AVENUE

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
C.21

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**35TH AVENUE AND LEARNING LANE
 PCC PAVING**

IN THE CITY OF MARION, LINN COUNTY, IOWA

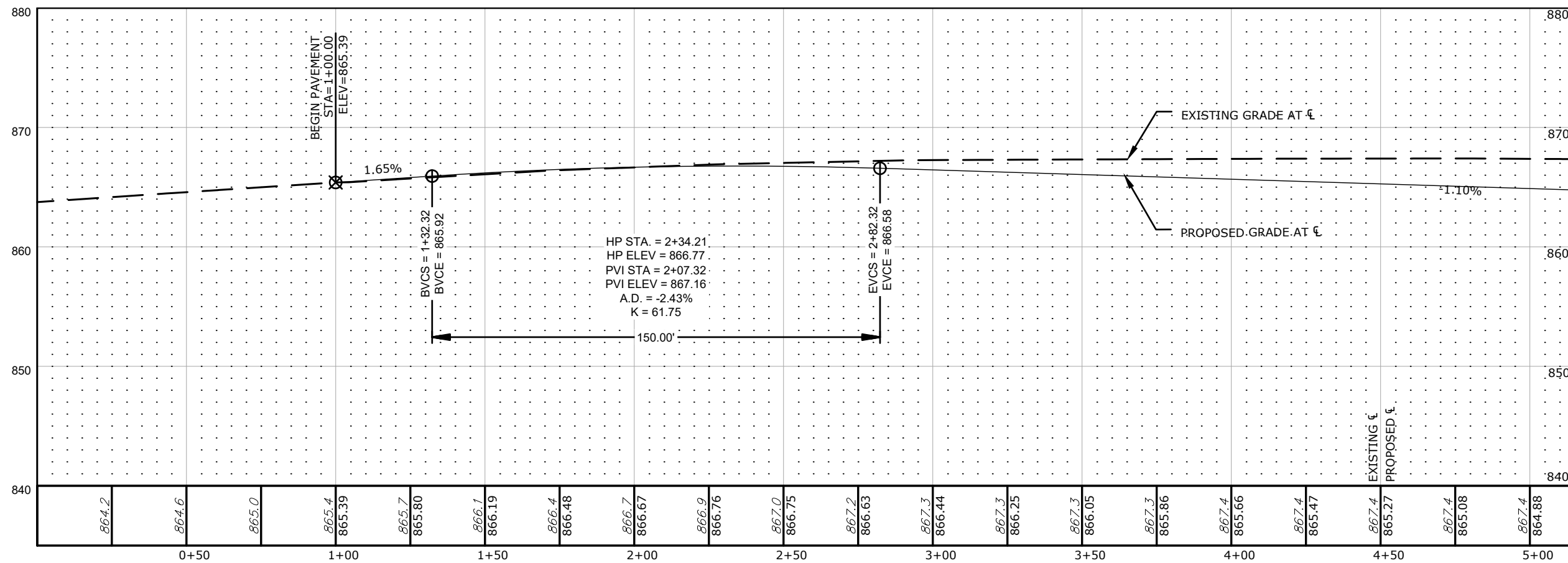
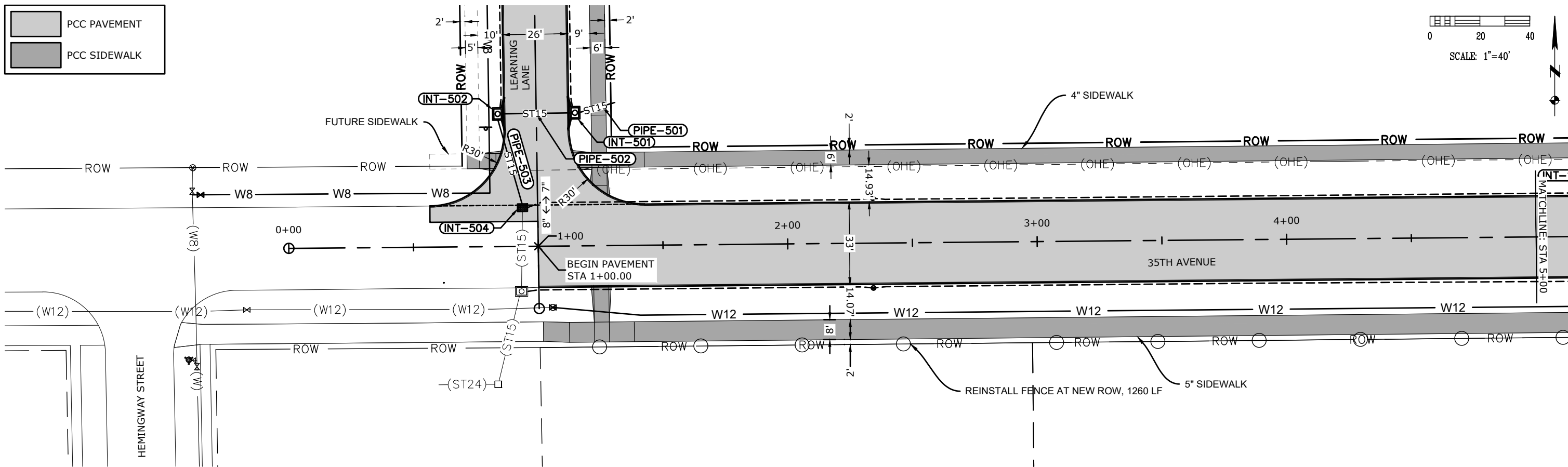
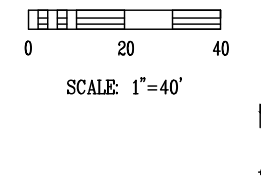
**GRADING & EROSION CONTROL
 PLAN - LEARNING LANE**

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
C.22

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PCC PAVEMENT
 PCC SIDEWALK



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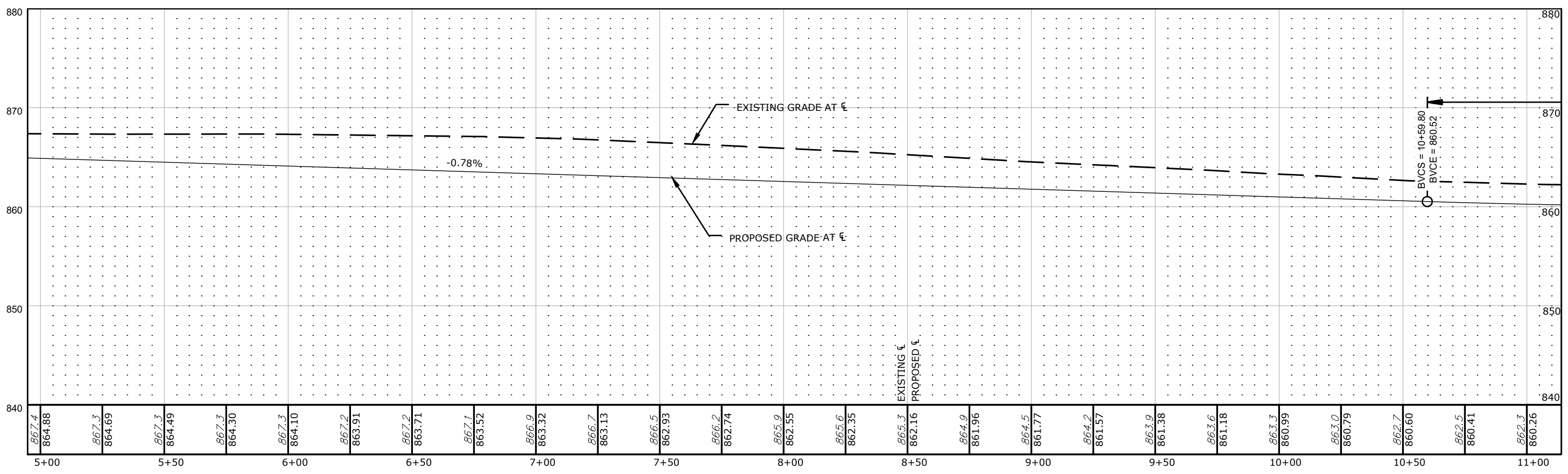
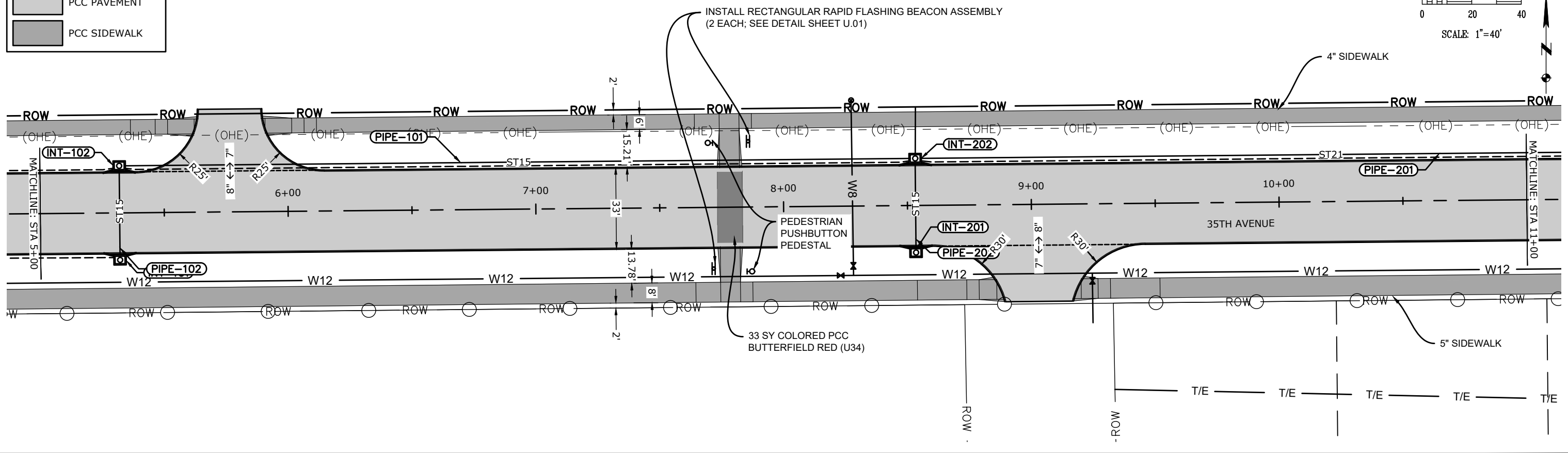
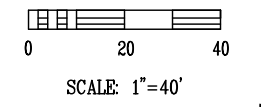
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35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVING PLAN & PROFILE
35TH AVENUE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
D.01

PCC PAVEMENT
 PCC SIDEWALK



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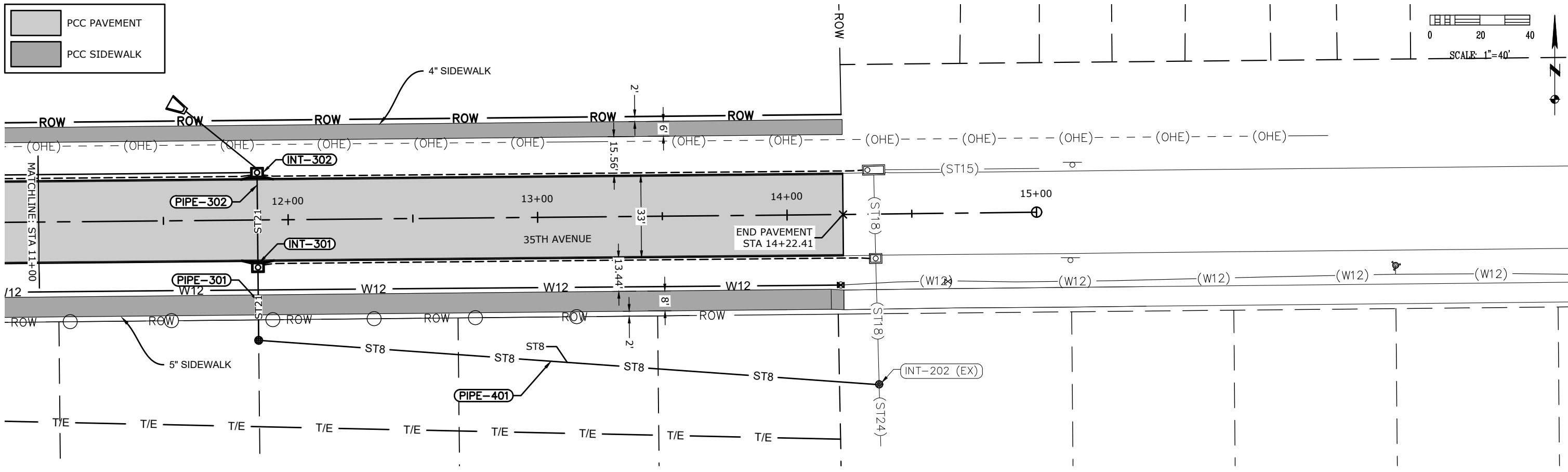
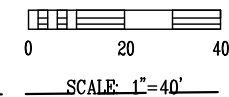
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVING PLAN & PROFILE
35TH AVENUE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
D.02

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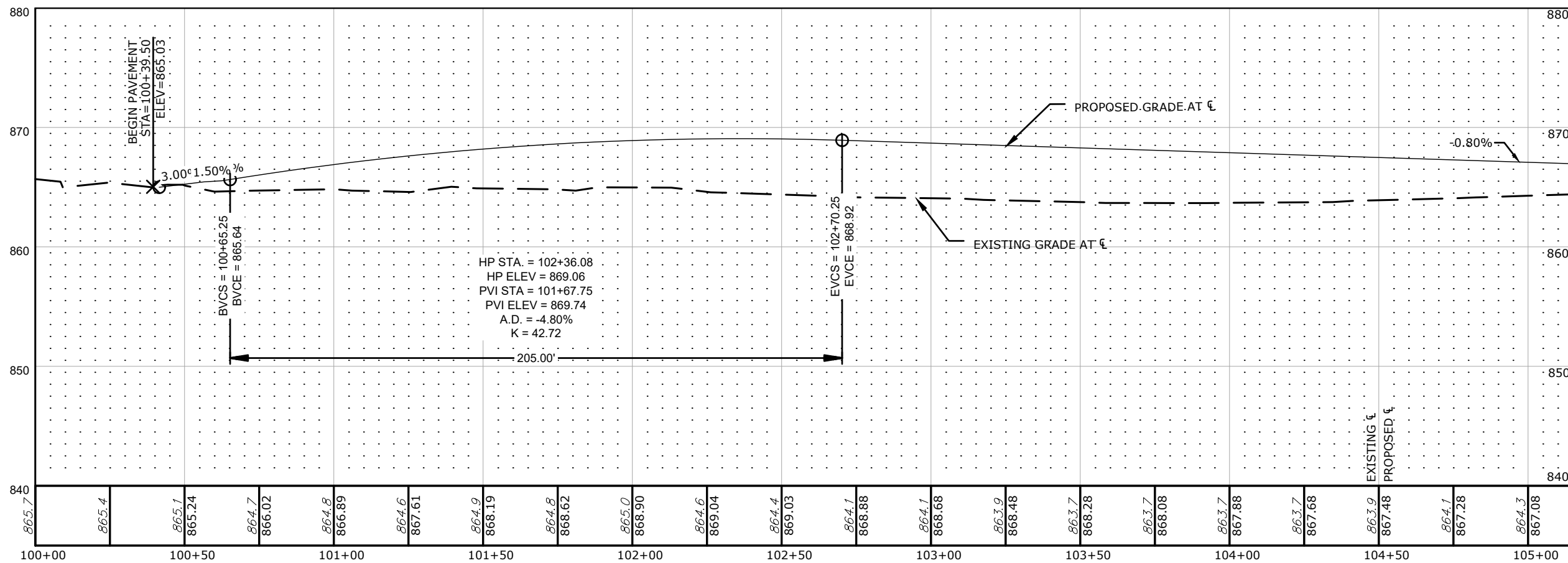
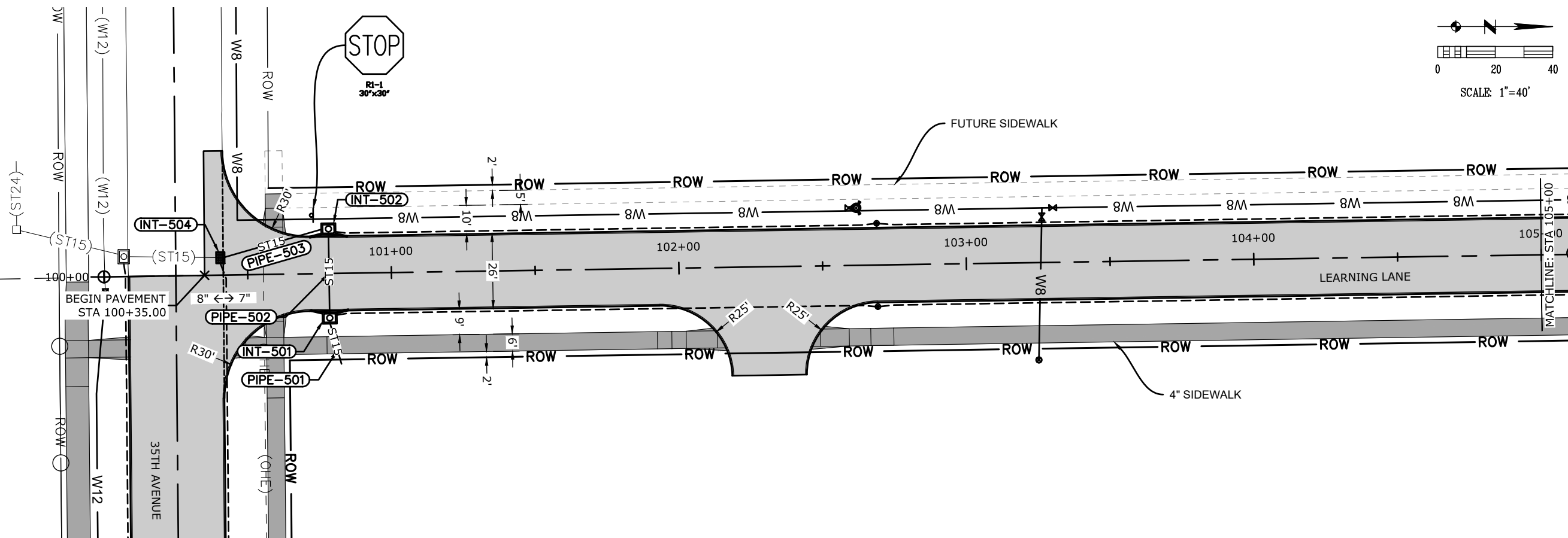
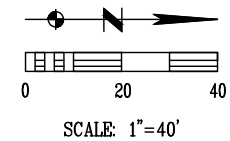
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVING PLAN & PROFILE
35TH AVENUE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
D.03

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PCC PAVEMENT
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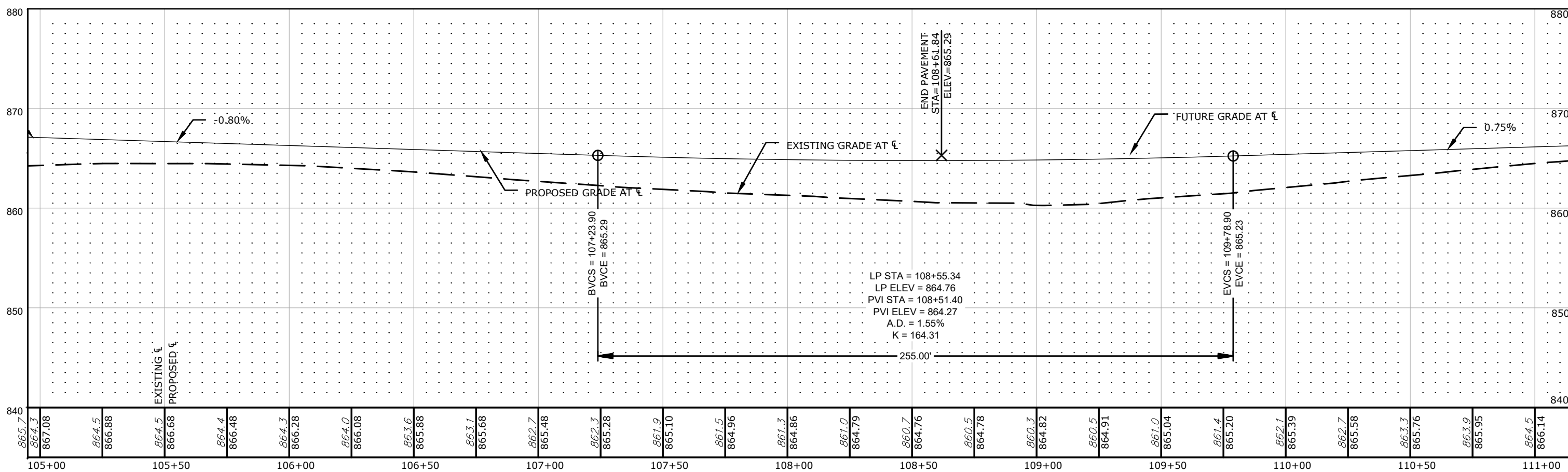
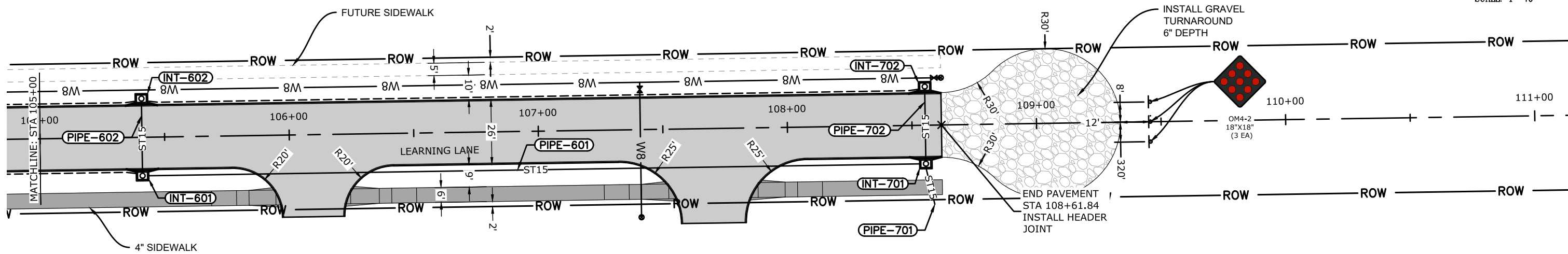
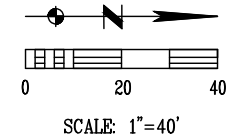
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35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVING PLAN & PROFILE
LEARNING LANE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
E.01

PCC PAVEMENT
 PCC SIDEWALK



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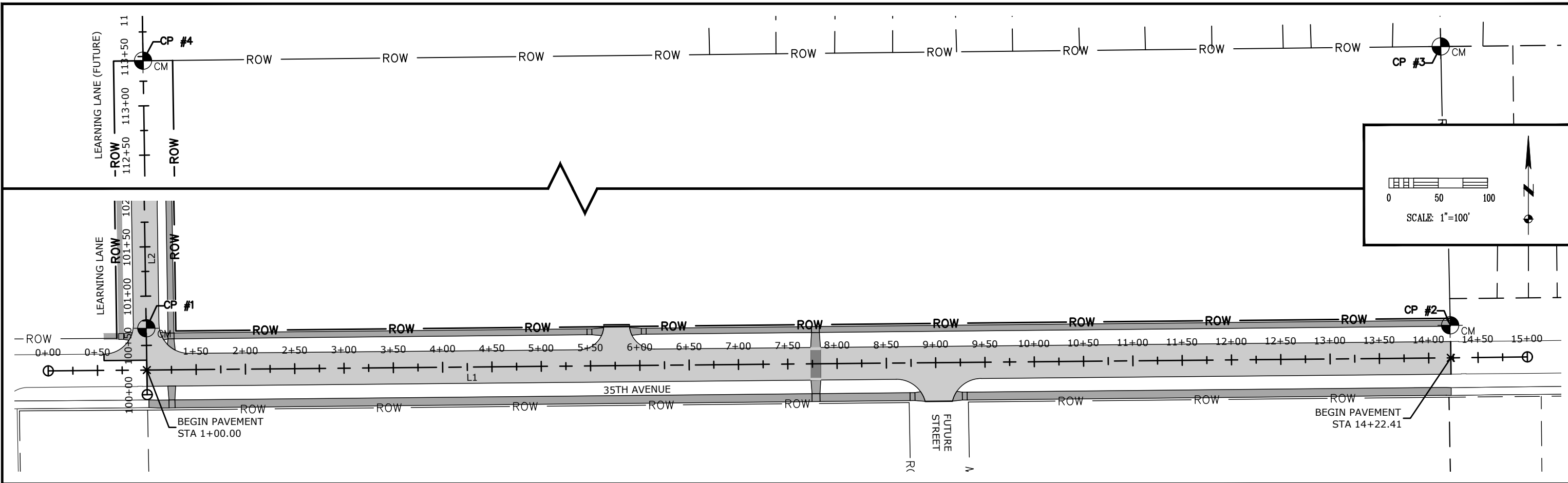
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 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVING PLAN & PROFILE
 LEARNING LANE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

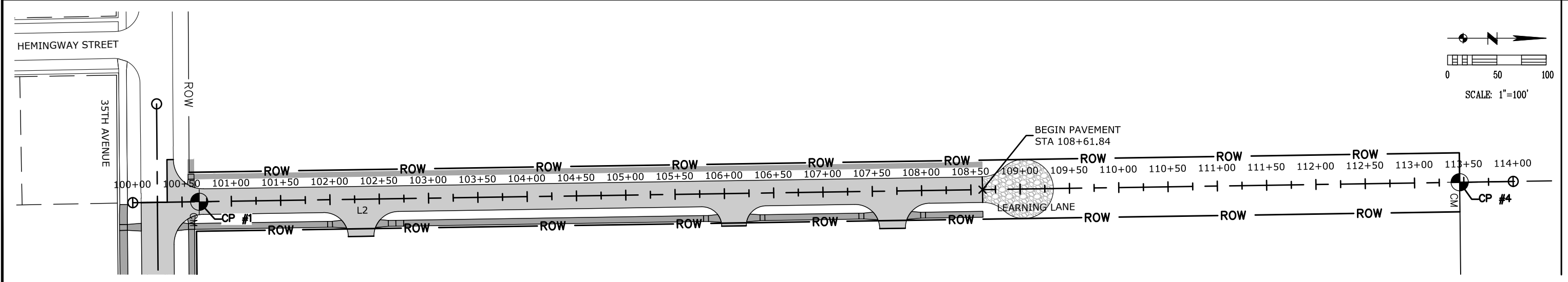
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CONTROL POINTS						
POINT #	STATION-OFFSET	ALIGNMENT	EASTING	NORTHING	ELEVATION	DESCRIPTION
CP #1	0+99.82, 42.42' LT	35TH AVE CL	5445461.204	3490057.450	864.72	5/8" REBAR
	100+67.42, 0.11' RT	LEARNING LANE				
CP #2	14+22.01, 33.07' LT	35TH AVE CL	5446783.388	3490060.47	862.38	1/2" REBAR
CP #3	14+08.01, 1322.82' LT	35TH AVE CL	5446757.330	3491350.033	867.83	5/8" REBAR
	113+39.82, 1312.01' RT	LEARNING LANE				
CP #4	113+45.77, 0.00'	LEARNING LANE	5445441.383	3491335.654	867.99	1/2" REBAR

ALIGNMENT LINE TABLE						
LINE #	LENGTH	DIRECTION	NAME	START POINT (STATION)	END POINT (STATION)	
L1	1500.00'	N89°27'21.90"E	35TH AVE CL	5445361.7536, 3490014.1723 (0+00.00)	5446861.6864, 3490028.3402 (15+00.00)	
L2	1400.00'	N0°53'00.57"E	LEARNING LANE	5445462.1348, 3489990.0389 (100+00.00)	5445440.5478, 3491389.8721 (104+00.00)	



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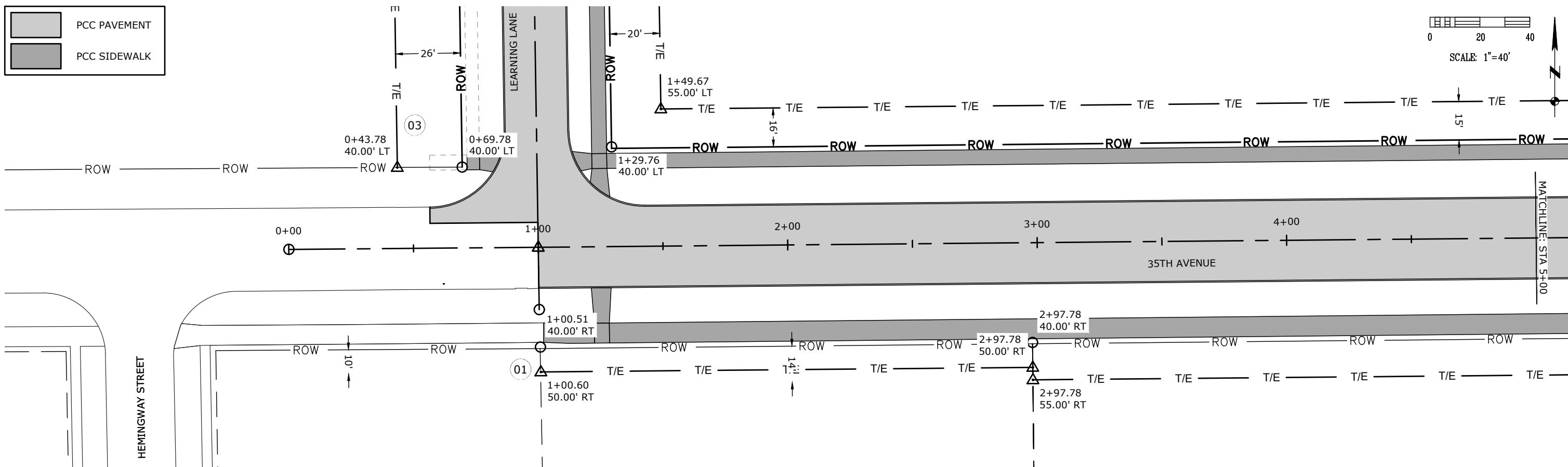
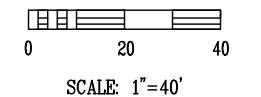
**35TH AVENUE AND LEARNING LANE
 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SURVEY CONTROL PLAN
 SCALE: 1" = 100'
 PROJECT NO: 10525-1

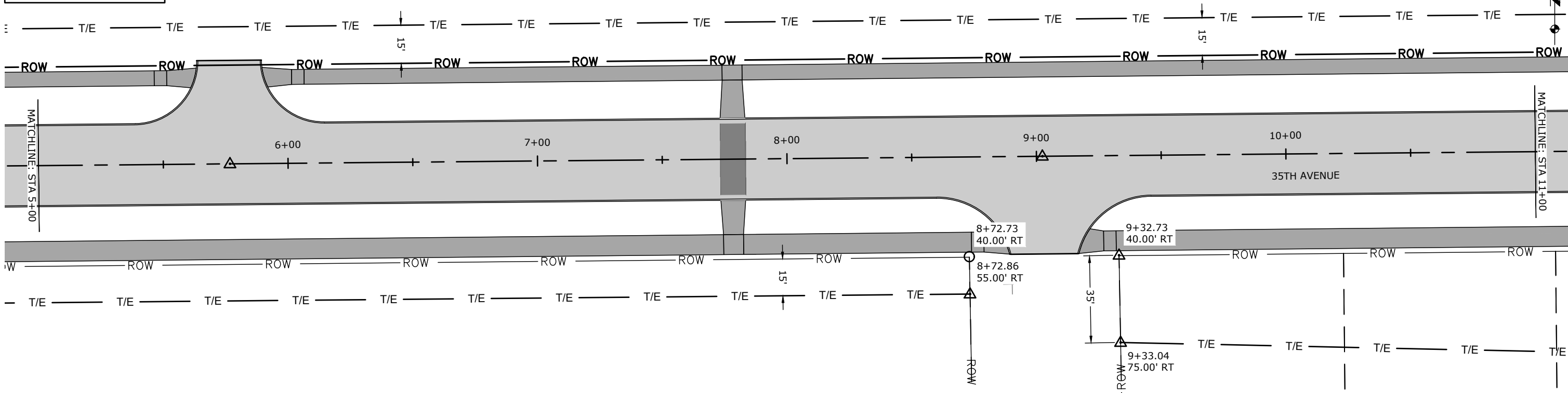
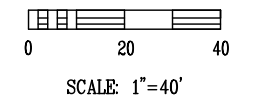
SHEET
G.01

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PCC PAVEMENT
 PCC SIDEWALK



PCC PAVEMENT
 PCC SIDEWALK



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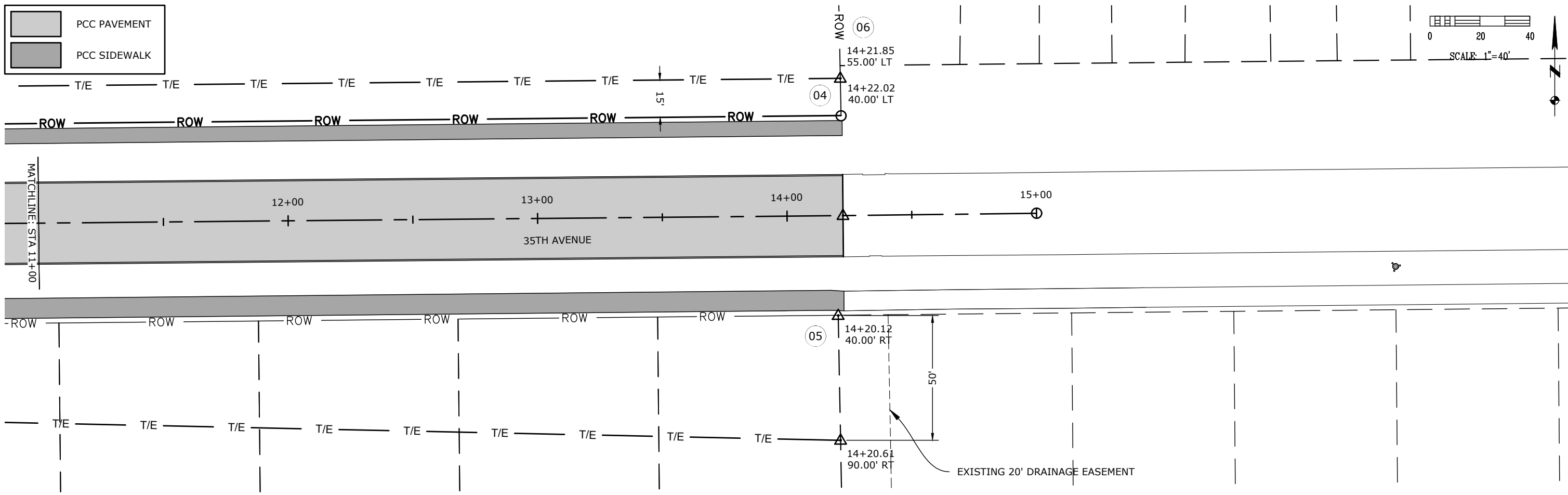
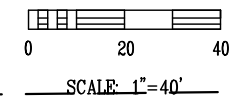
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35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

RIGHT OF WAY AND EASEMENT PLANS
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
H.01

 PCC PAVEMENT
 PCC SIDEWALK



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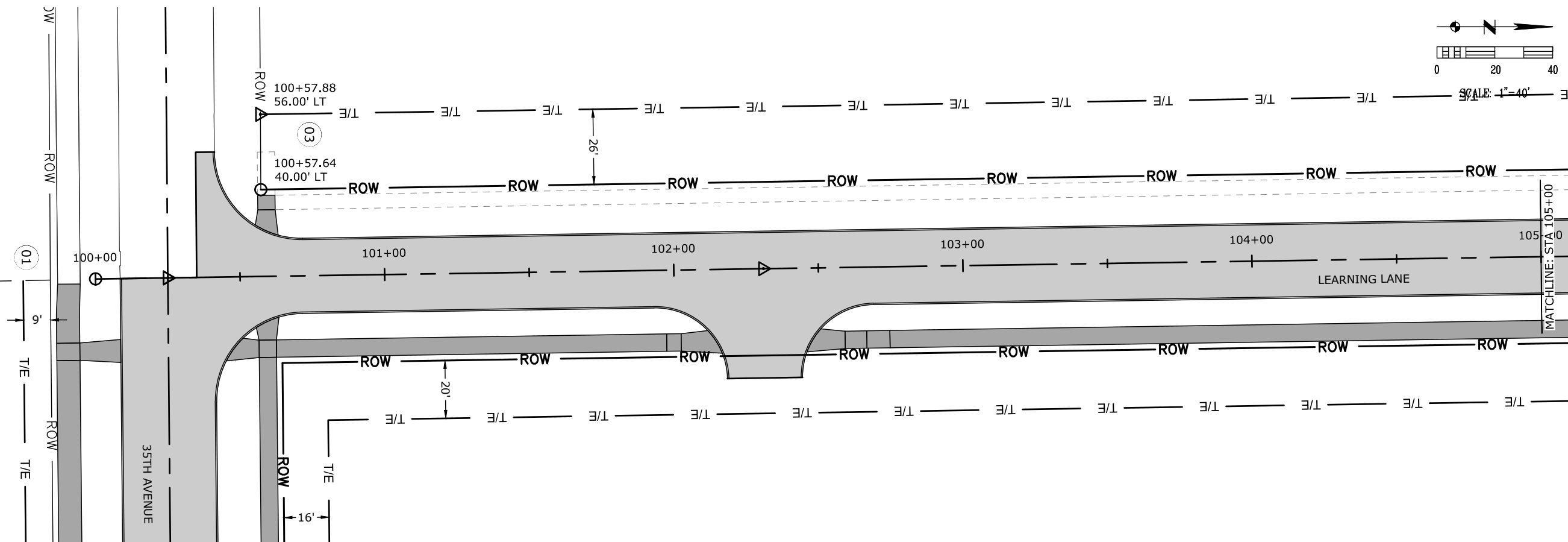
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

RIGHT OF WAY AND EASEMENT PLANS
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

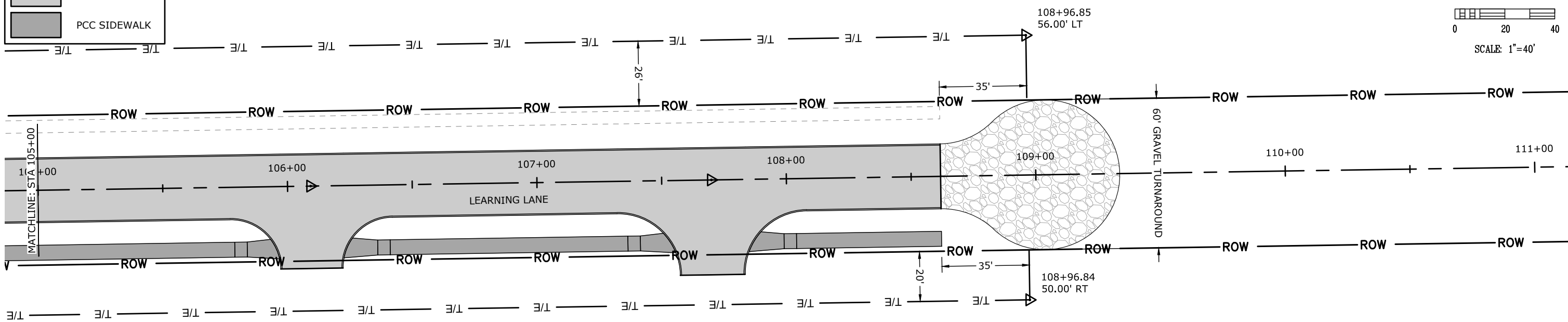
SHEET
H.02

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PCC PAVEMENT
 PCC SIDEWALK



PCC PAVEMENT
 PCC SIDEWALK



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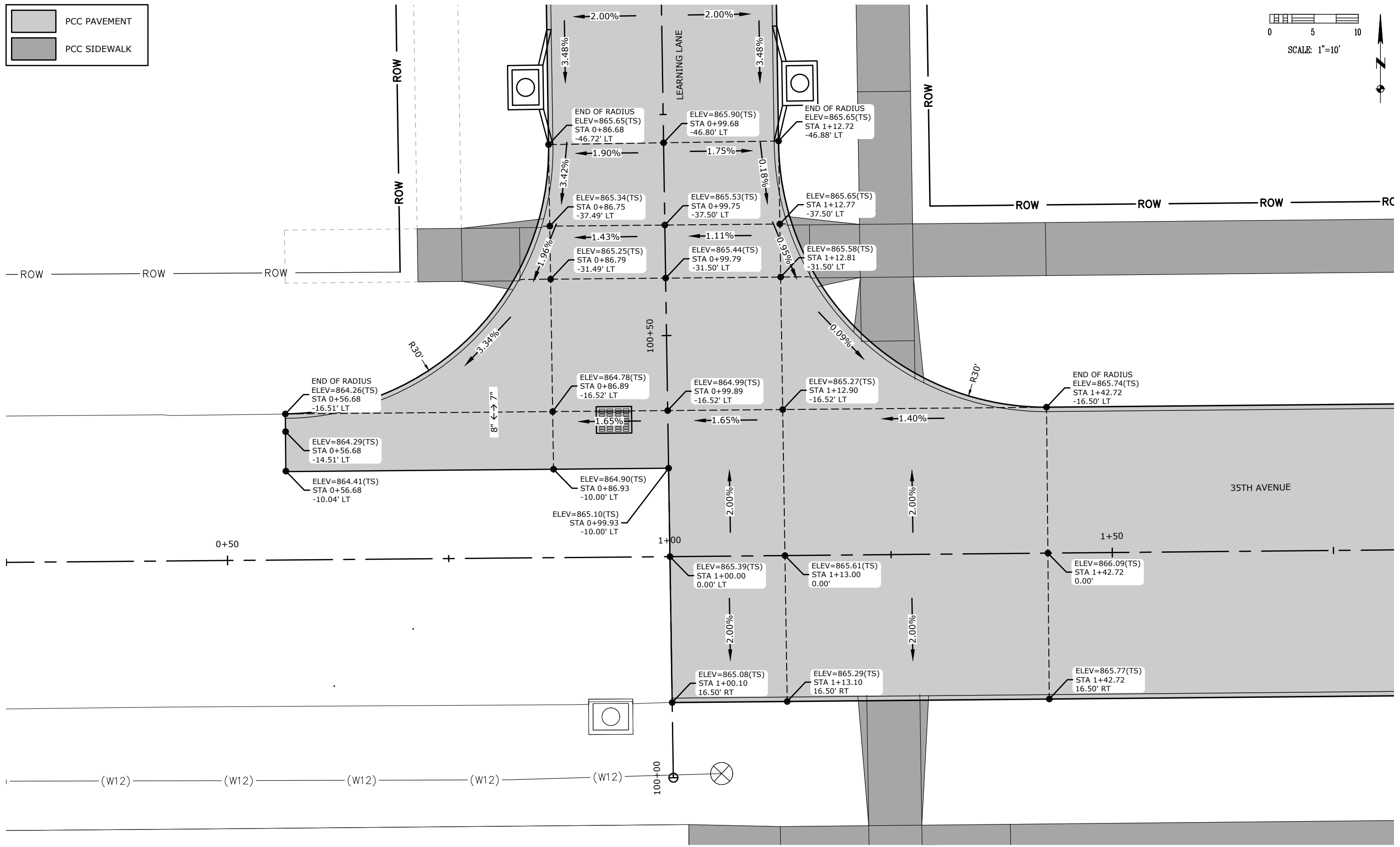
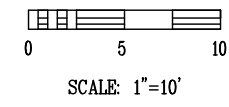
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35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

RIGHT OF WAY AND EASEMENT PLANS
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
H.03

PCC PAVEMENT
 PCC SIDEWALK



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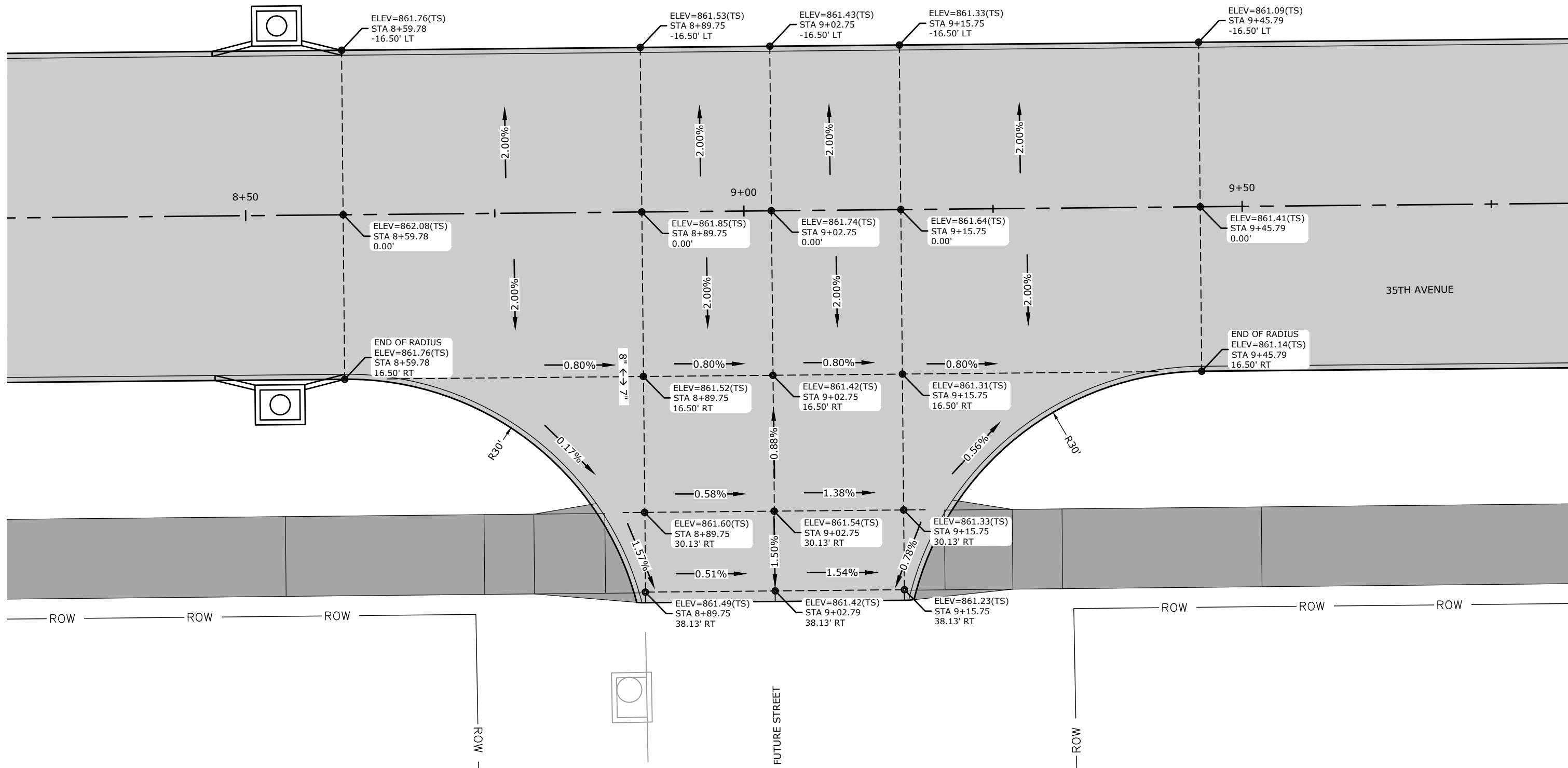
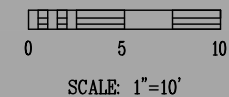
35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

INTERSECTION DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
K.01

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\K - INTERSECTIONS.dwg Date Plotted: Wednesday, May 15, 2019 11:38:20 AM Plotted By: Kelda Hankins

PCC PAVEMENT
 PCC SIDEWALK



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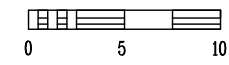
35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

INTERSECTION DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

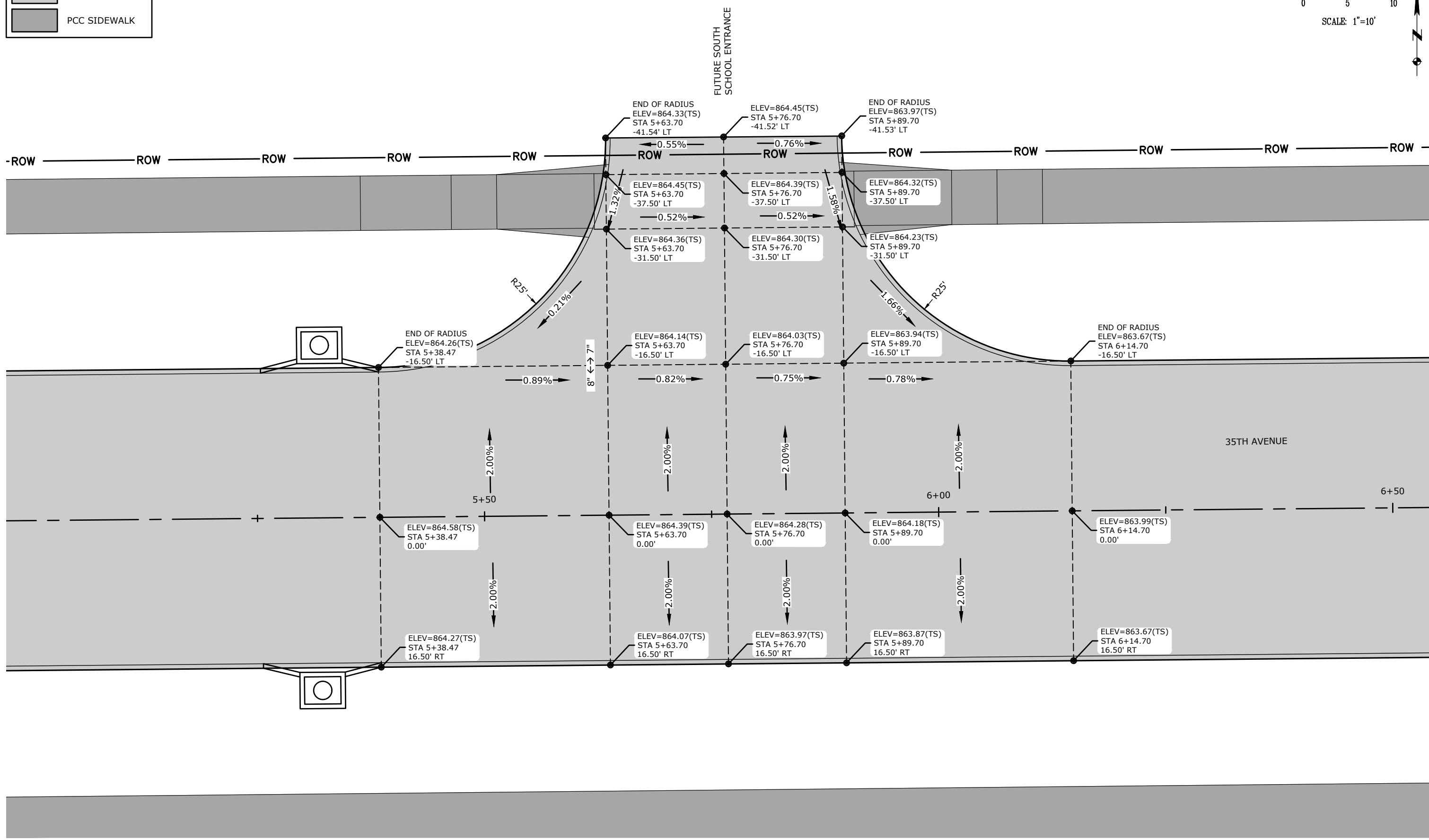
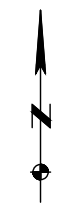
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PCC PAVEMENT
 PCC SIDEWALK



SCALE: 1"=10'



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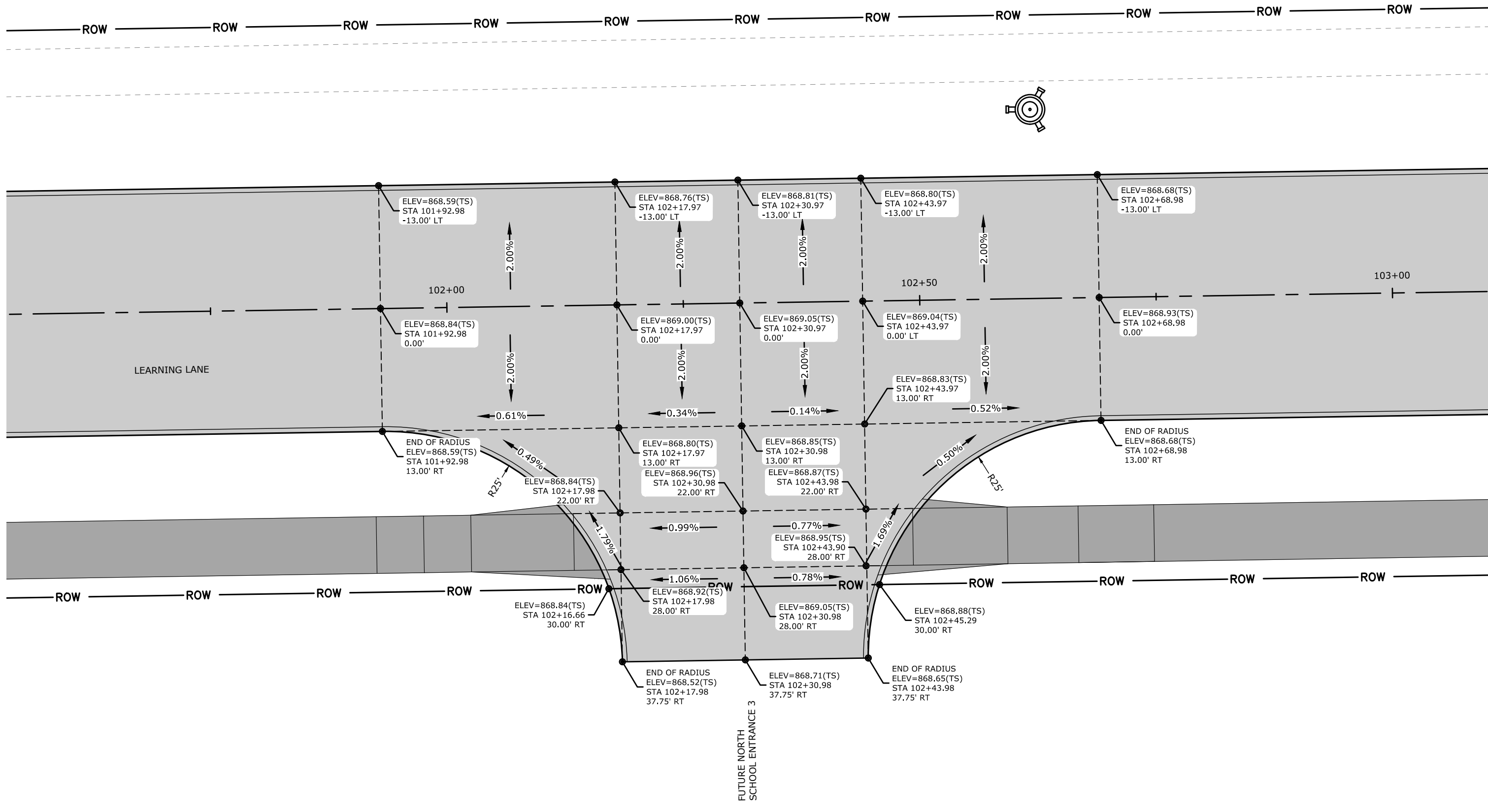
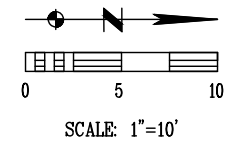
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

ENTRANCE DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
K.03

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PCC PAVEMENT
 PCC SIDEWALK



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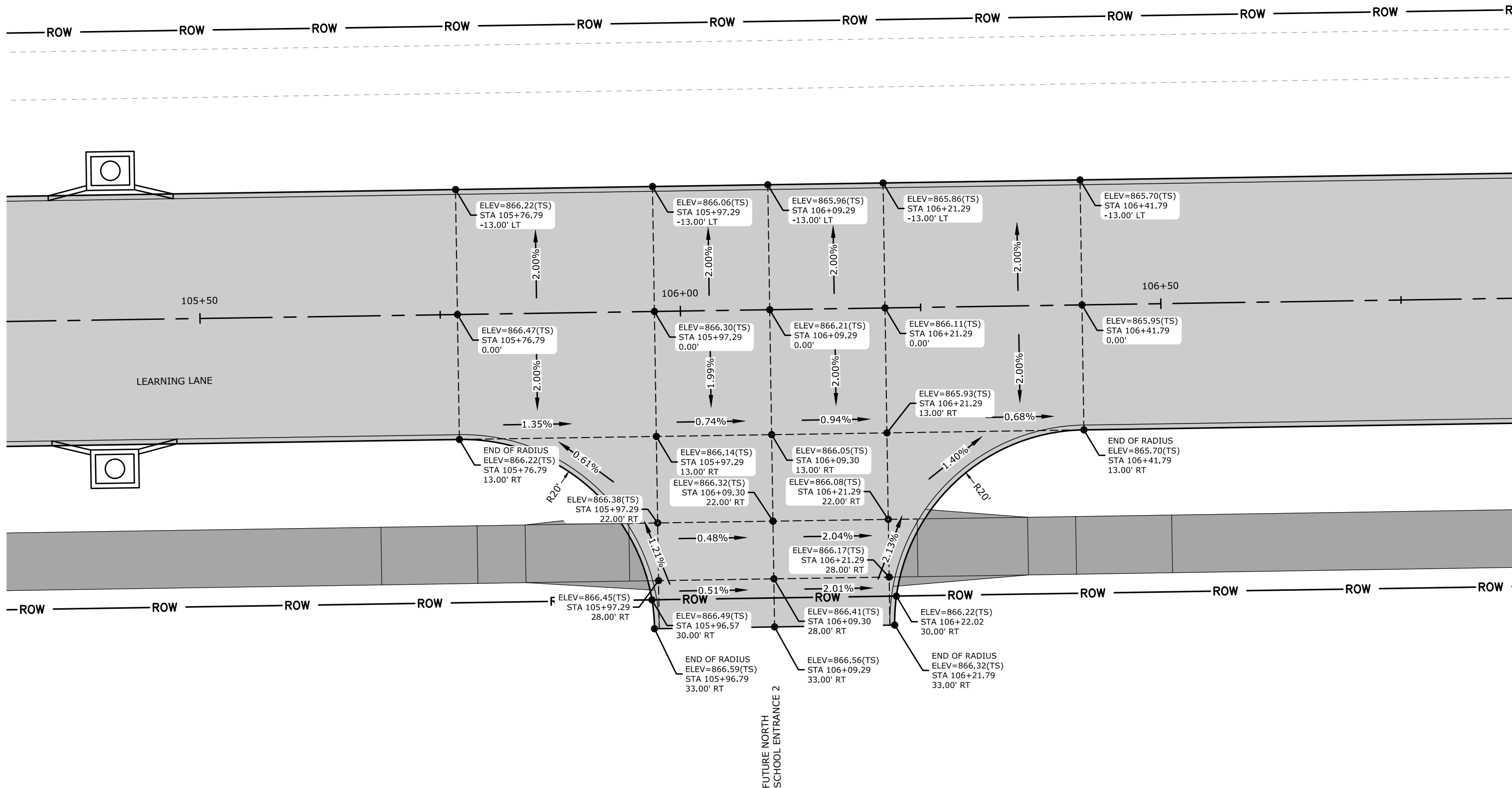
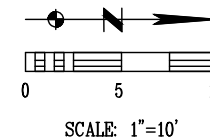
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 IN THE CITY OF MARION, LINN COUNTY, IOWA

ENTRANCE DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
K.04

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DATE: 05/14/2019				
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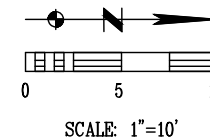
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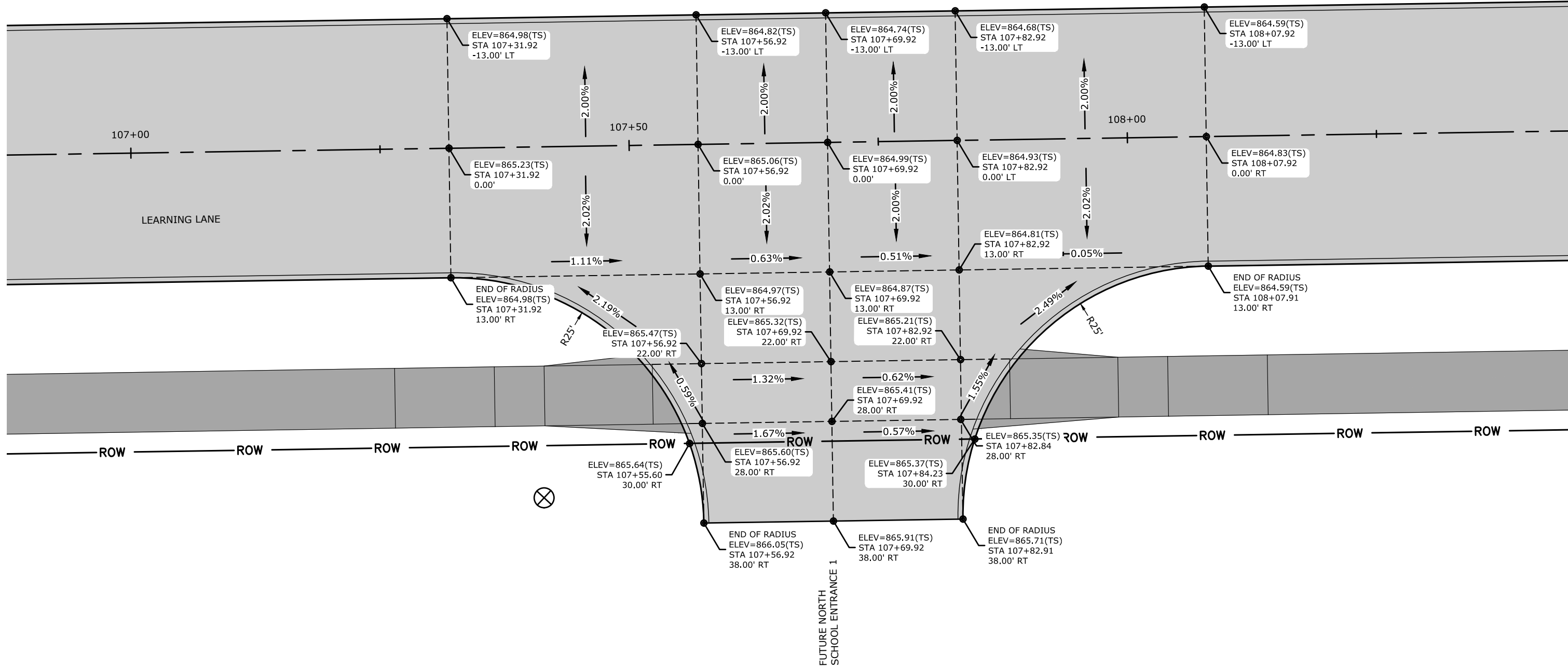
ENTRANCE DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
K.05

PCC PAVEMENT
 PCC SIDEWALK



W ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW ——— ROW



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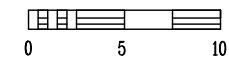
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

ENTRANCE DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

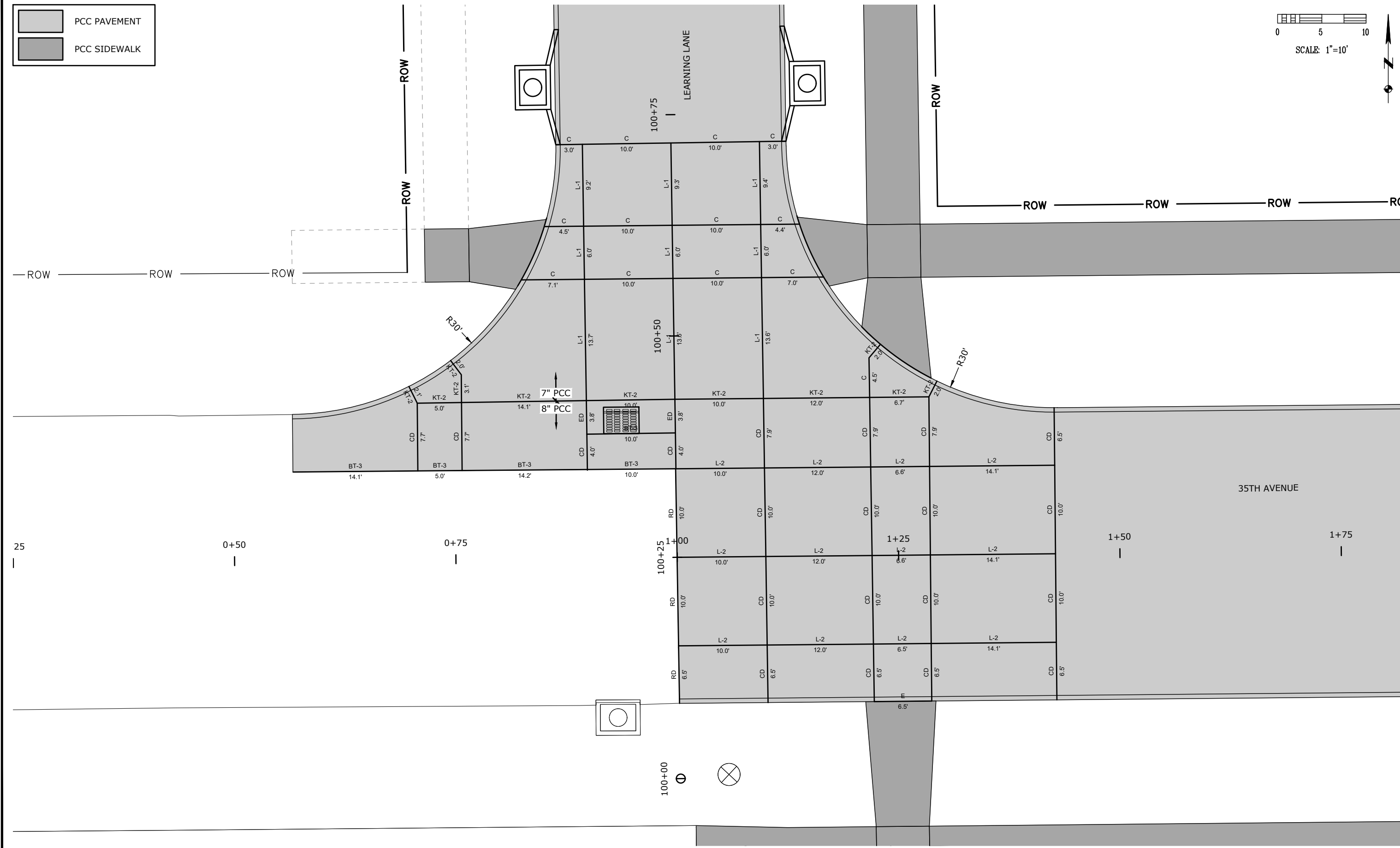
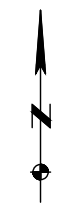
SHEET
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	PCC PAVEMENT
	PCC SIDEWALK



SCALE: 1"=10'



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 PCC PAVING**

IN THE CITY OF MARION, LINN COUNTY, IOWA

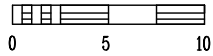
PAVEMENT JOINTING DETAILS

SCALE: 1" = 10' PROJECT NO: 10525-1

SHEET
L.01

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\L - JOINTING.dwg Date Plotted: Wednesday, May 15, 2019 11:39:19 AM Plotted By: Kelda Hankins

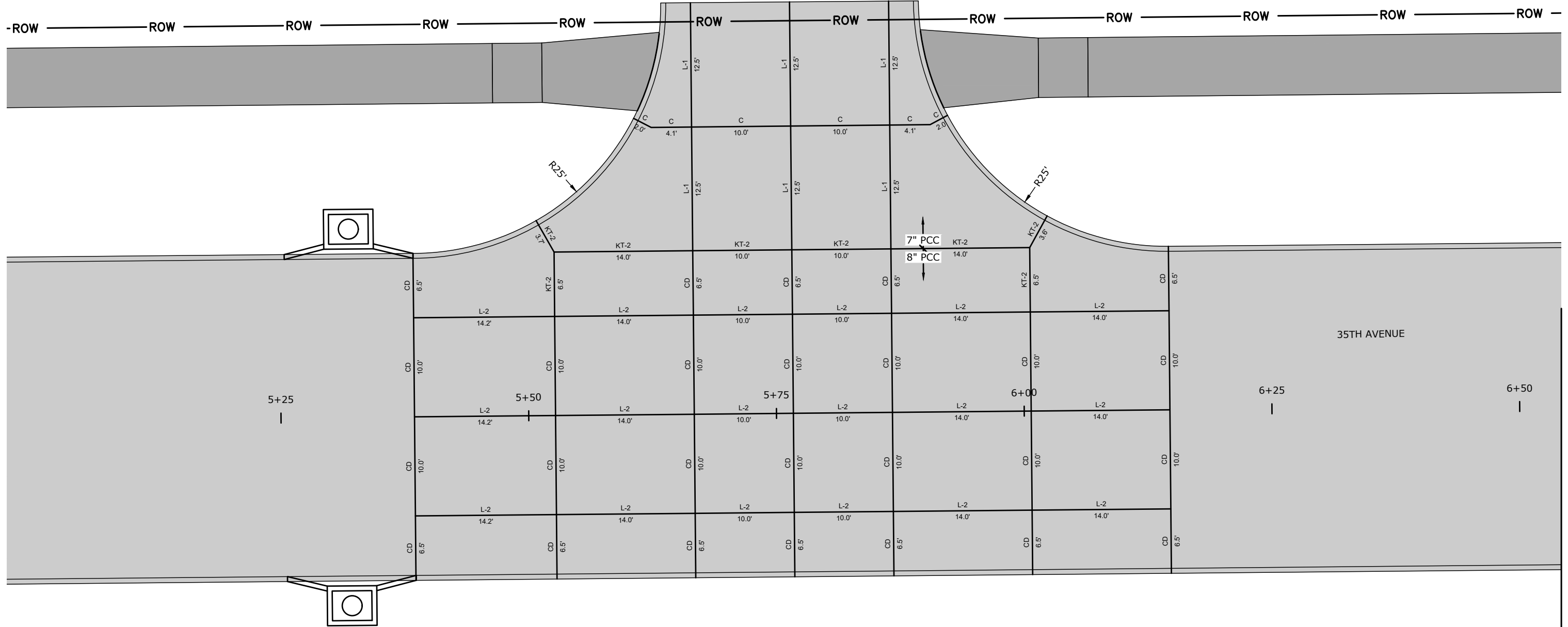
PCC PAVEMENT
 PCC SIDEWALK



SCALE: 1"=10'



FUTURE SOUTH SCHOOL ENTRANCE



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FIELD BOOK: ---	NO.	REVISION DESCRIPTION	APPROVED	DATE



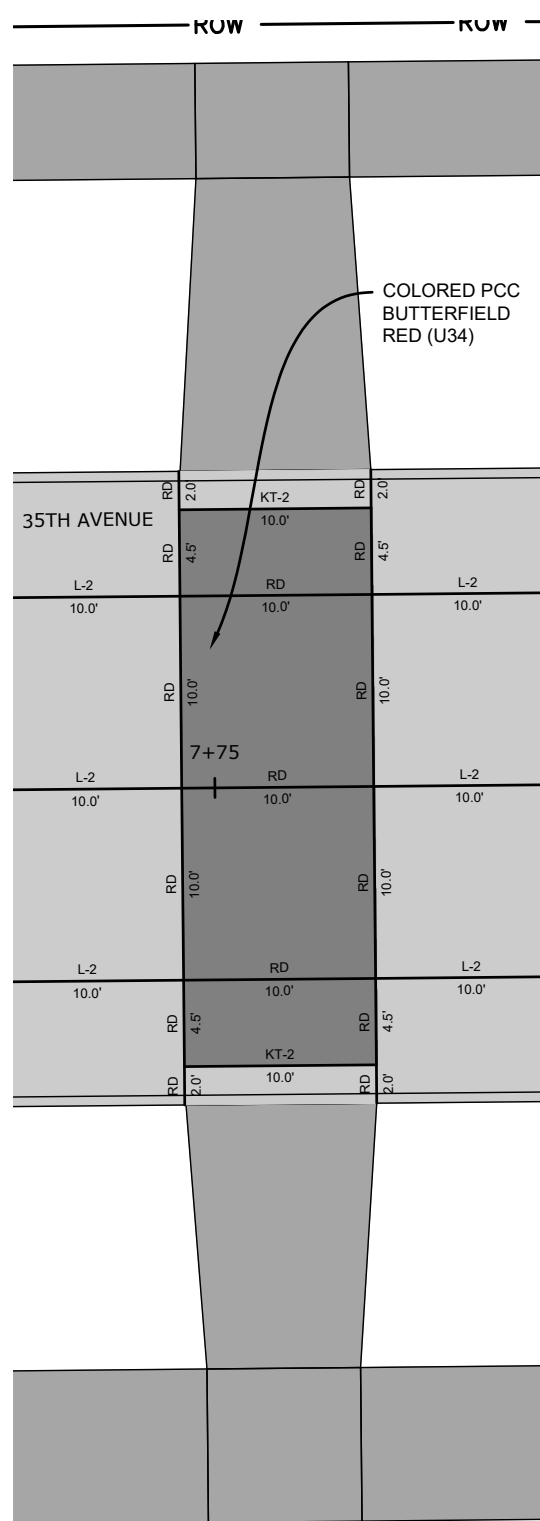
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 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVEMENT JOINTING DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

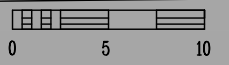
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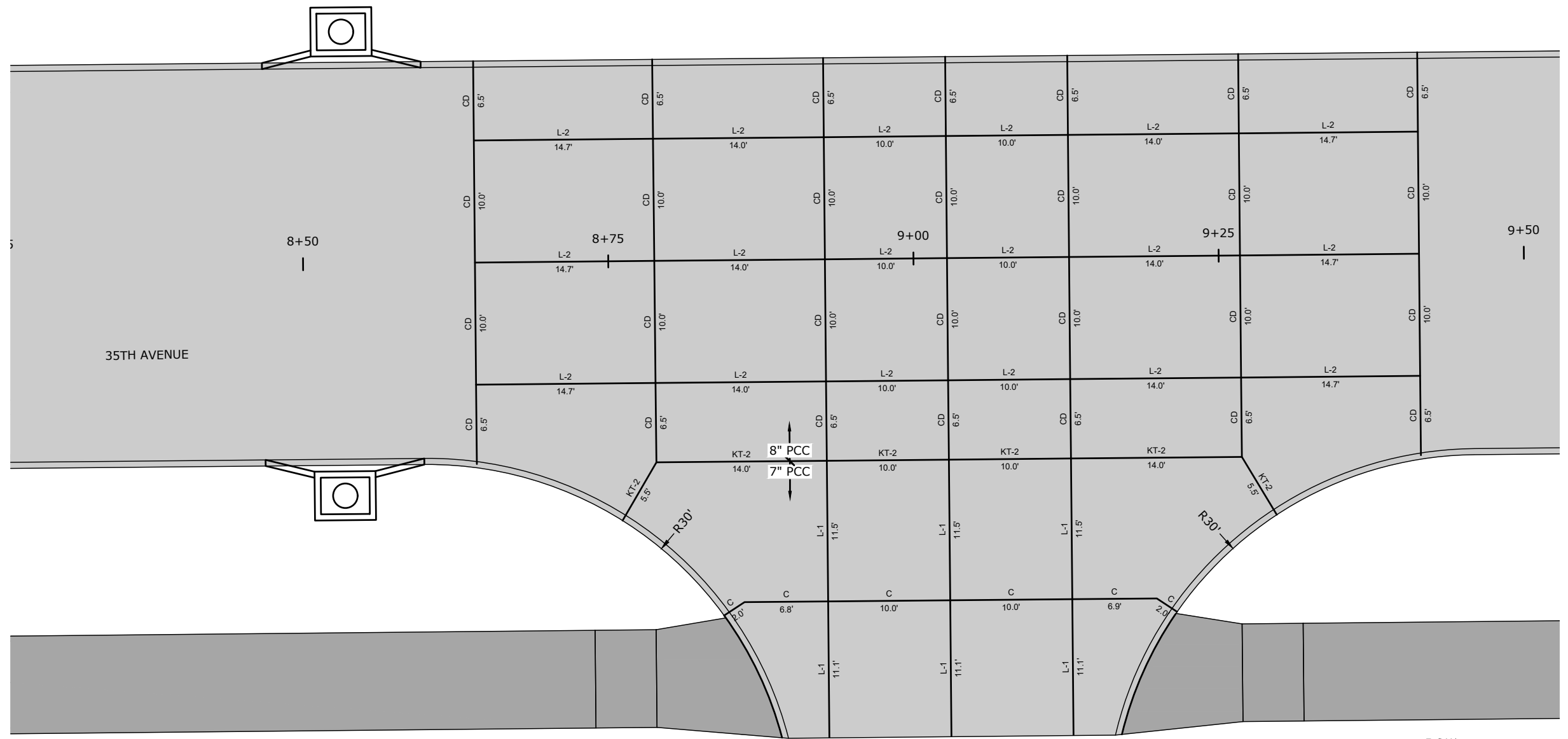


COLORED PCC BUTTERFIELD RED (U34)

PCC PAVEMENT
 PCC SIDEWALK

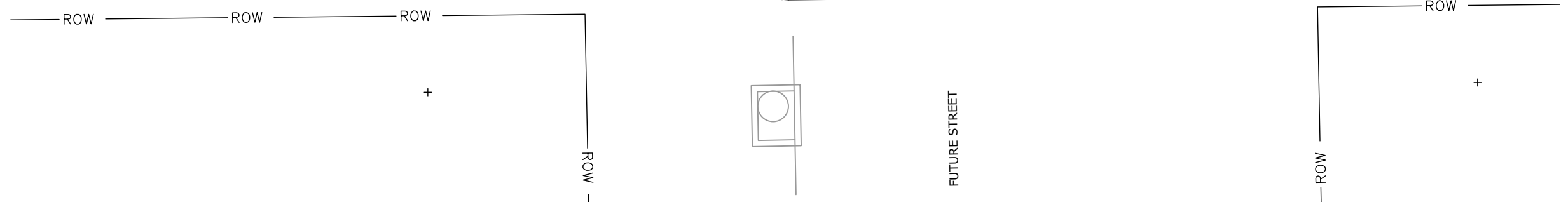


SCALE: 1"=10'



8" PCC
7" PCC

SCALE: 1"=10'



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PCC PAVING**

IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVEMENT JOINTING DETAILS

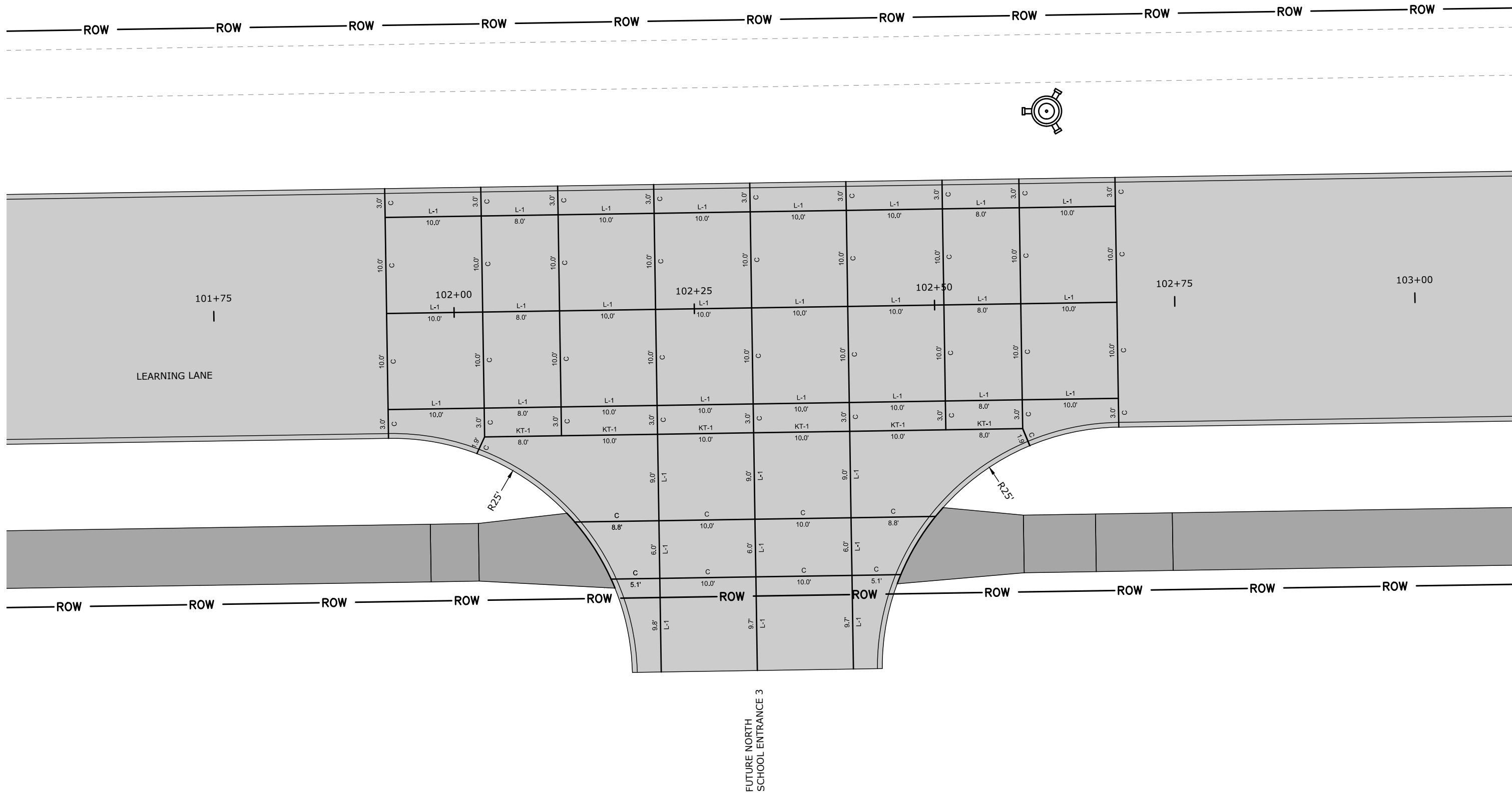
SCALE: 1" = 10' PROJECT NO: 10525-1

SHEET
L.03

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PCC PAVEMENT
 PCC SIDEWALK

SCALE: 1"=10'



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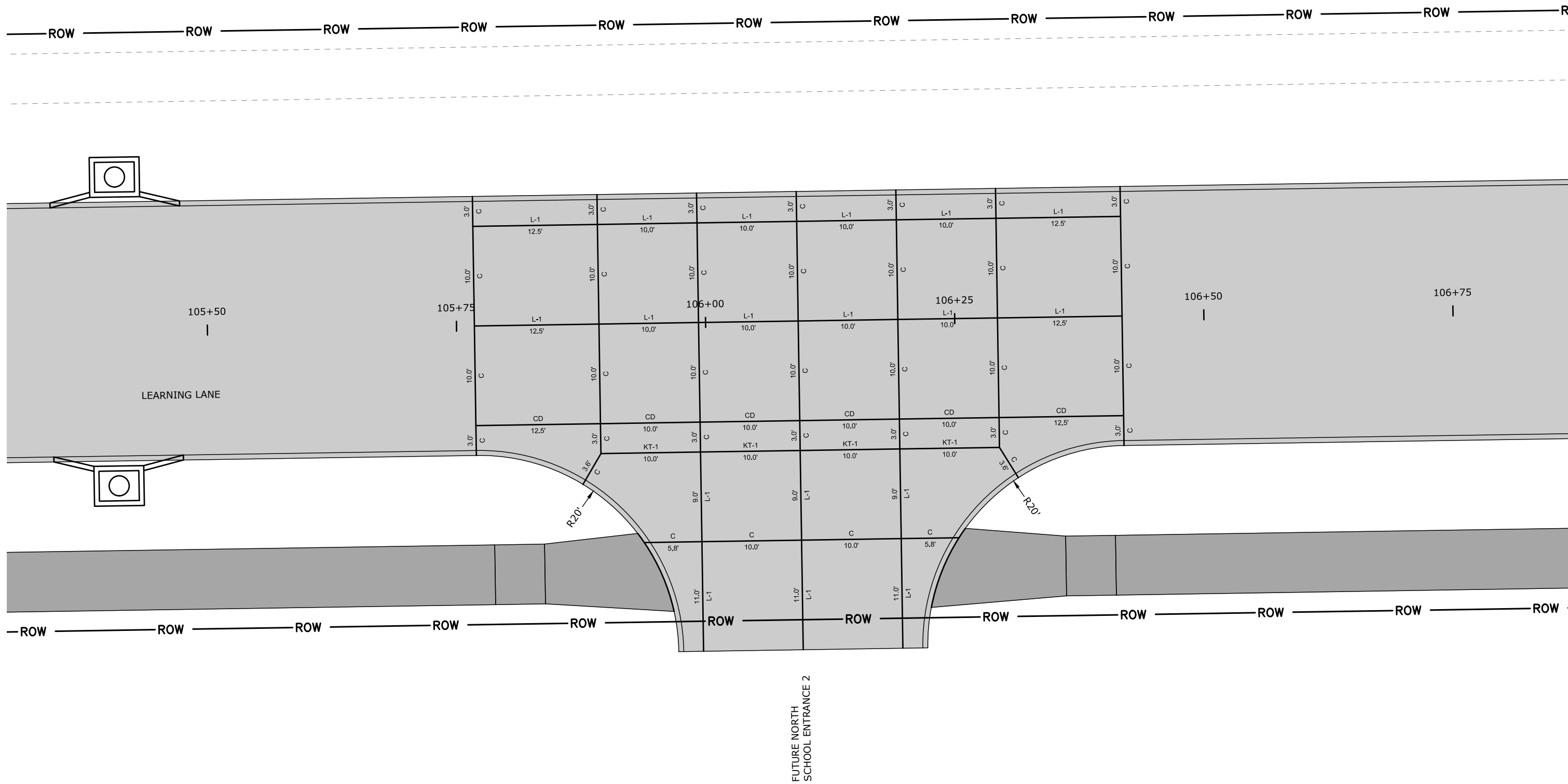
35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVEMENT JOINTING DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
L.04

PCC PAVEMENT
 PCC SIDEWALK

SCALE: 1"=10'



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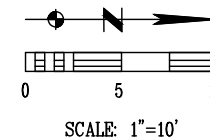
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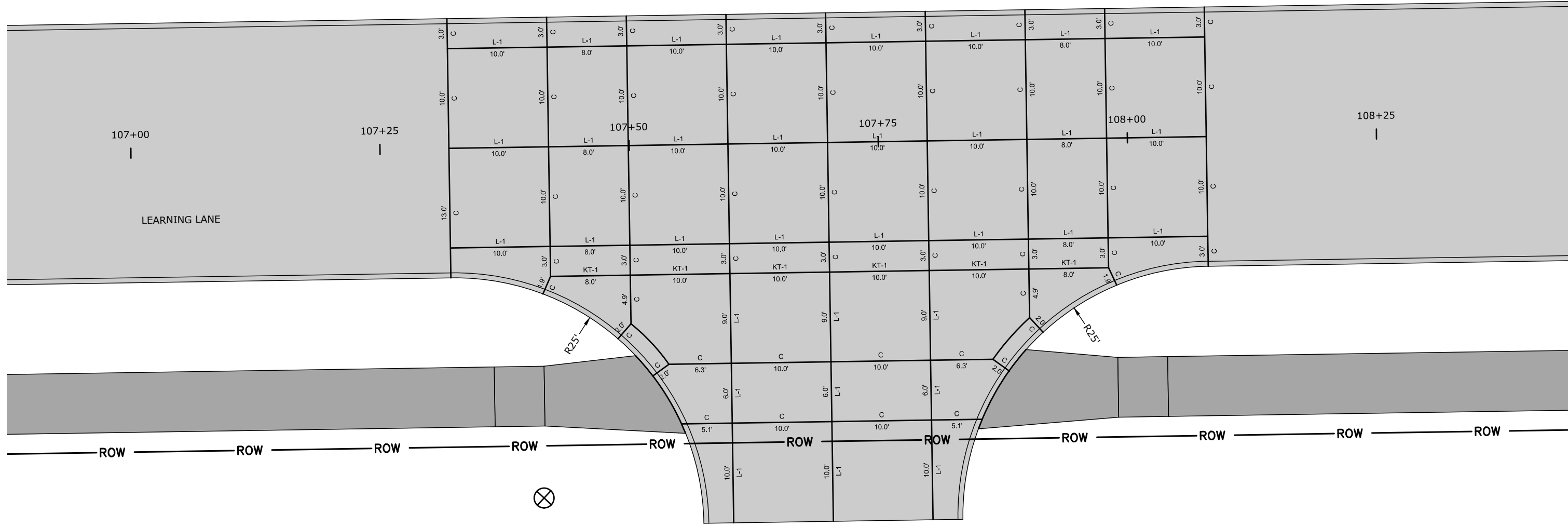
PAVEMENT JOINTING DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
L.05

PCC PAVEMENT
 PCC SIDEWALK



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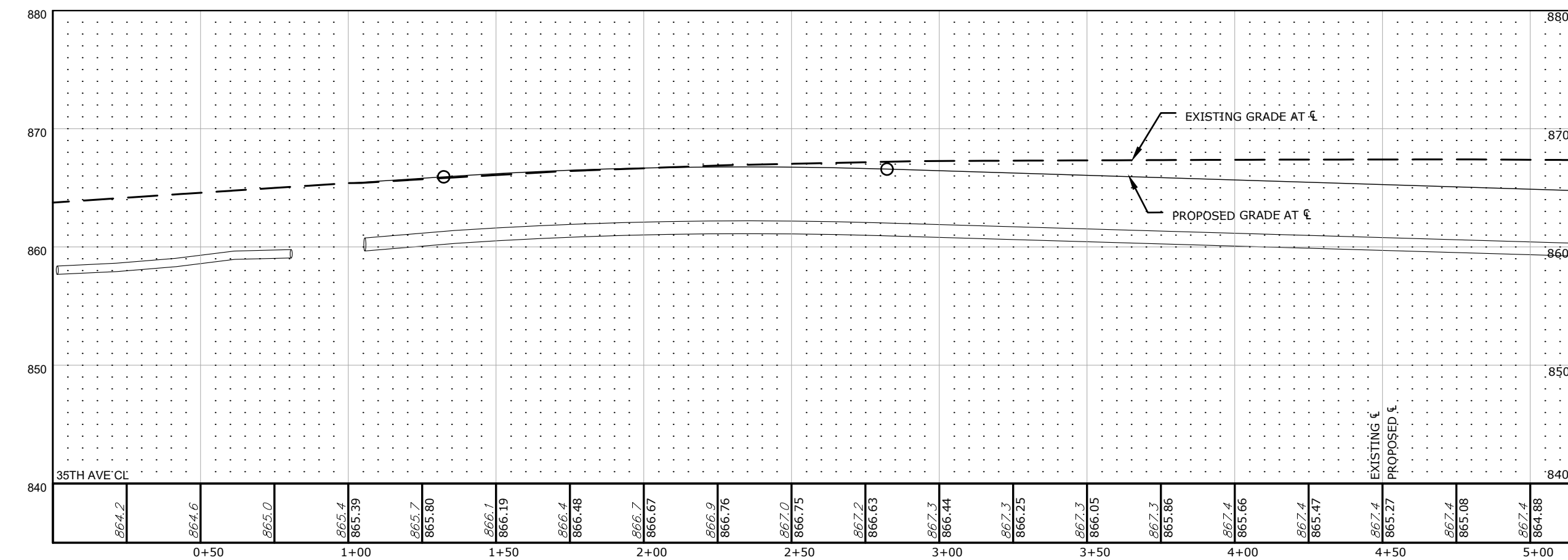
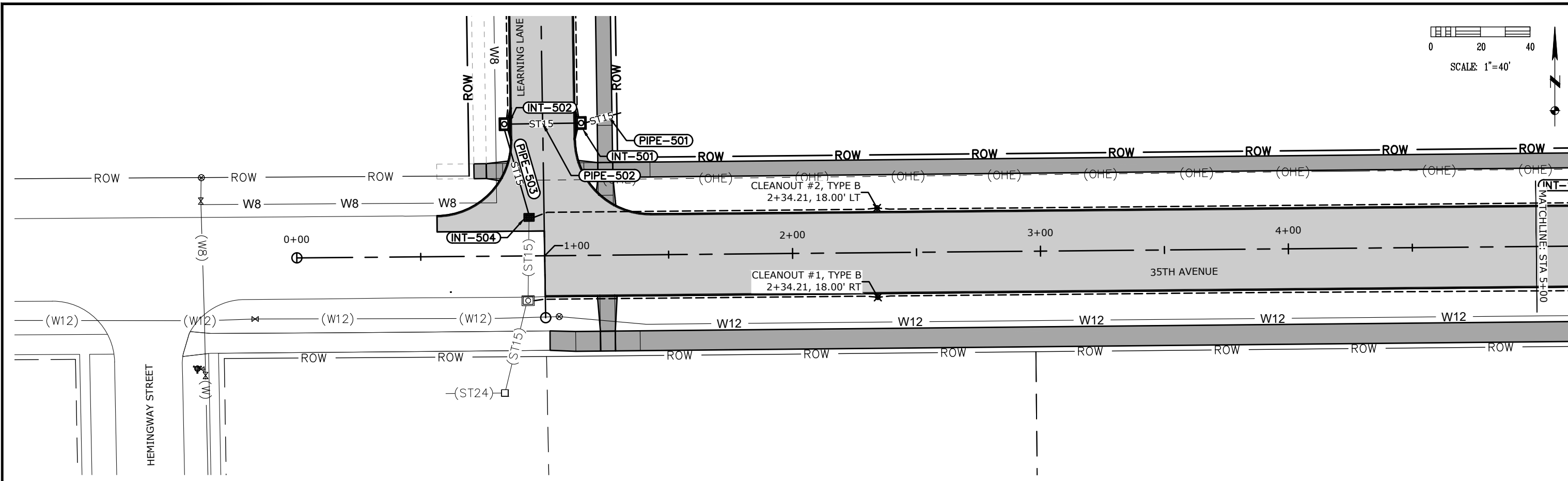
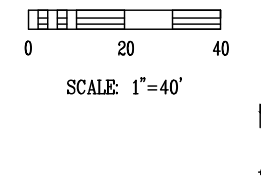
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 IN THE CITY OF MARION, LINN COUNTY, IOWA

PAVEMENT JOINTING DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
L.06

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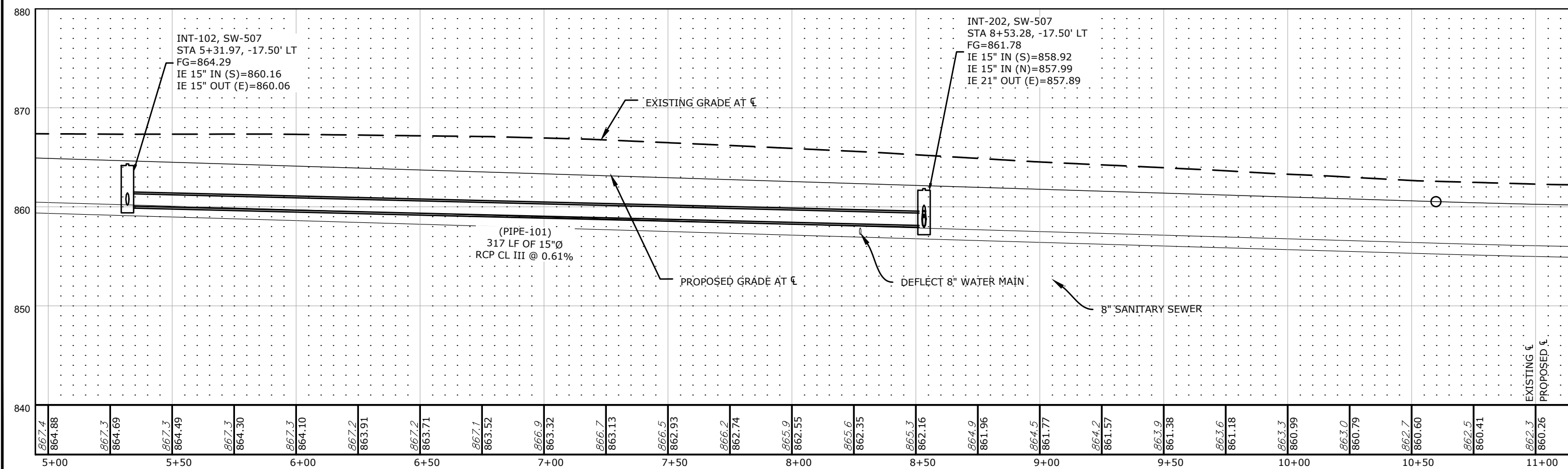
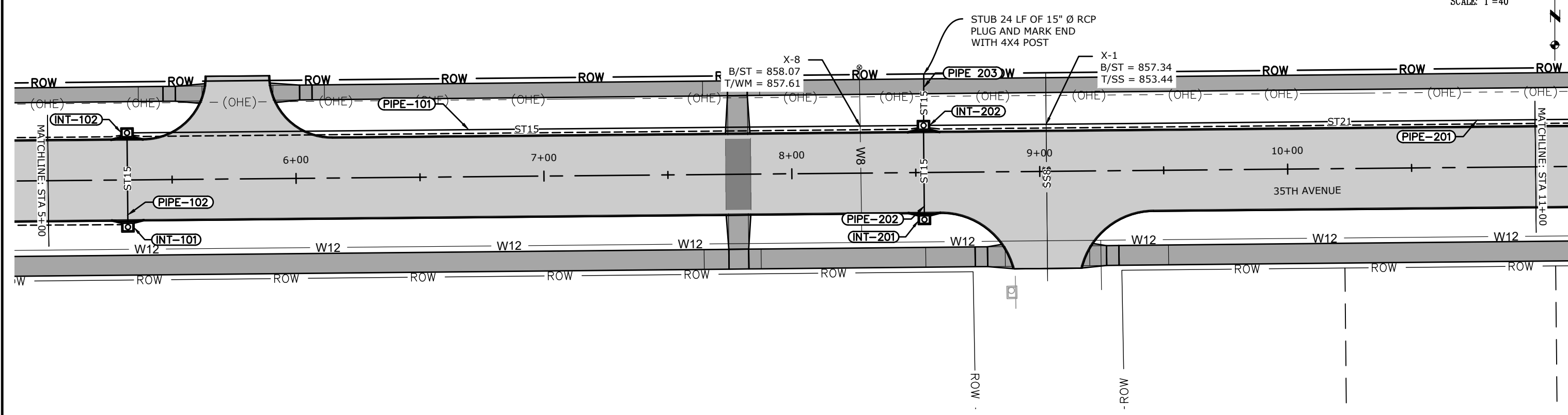
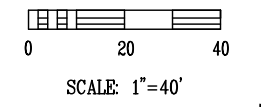
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PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

STORM SEWER PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MST.01

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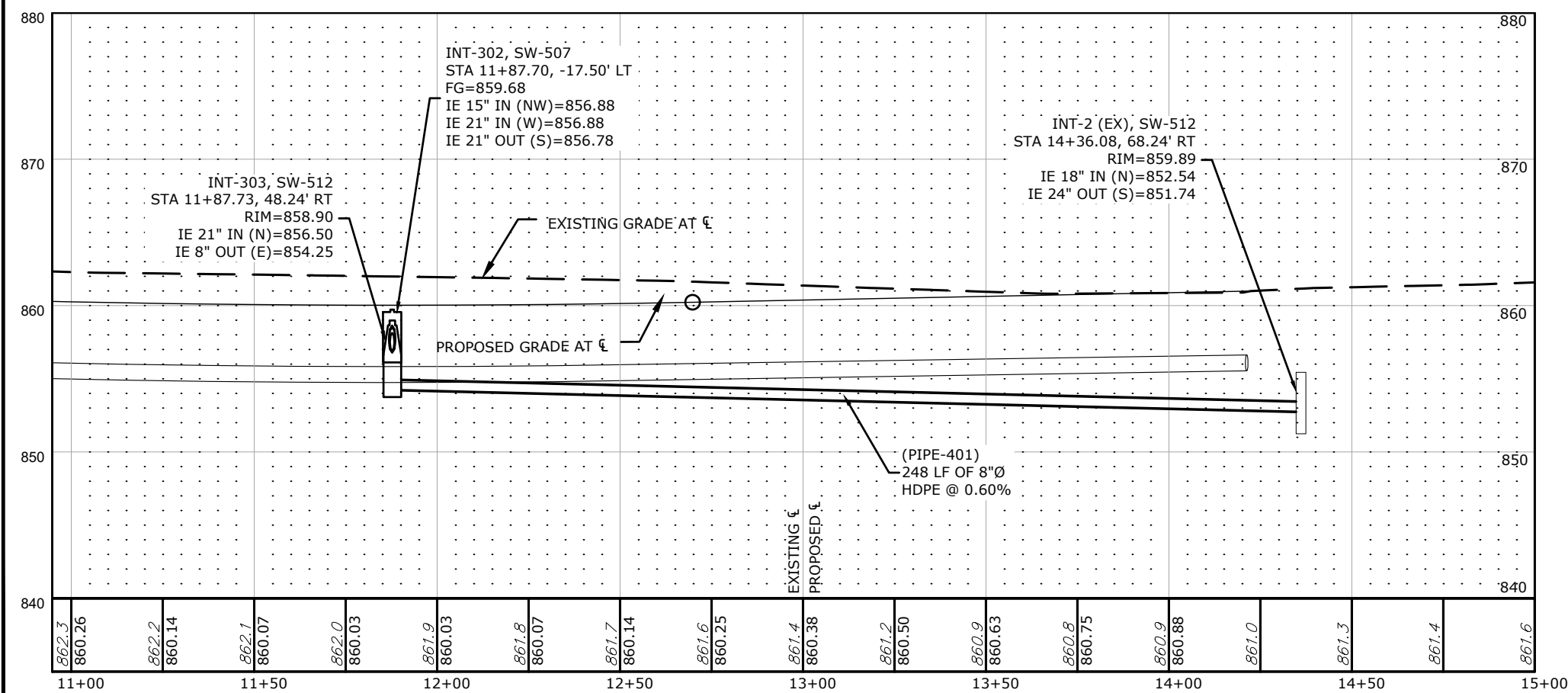
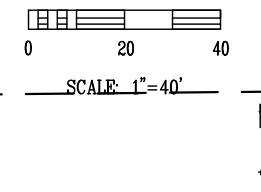
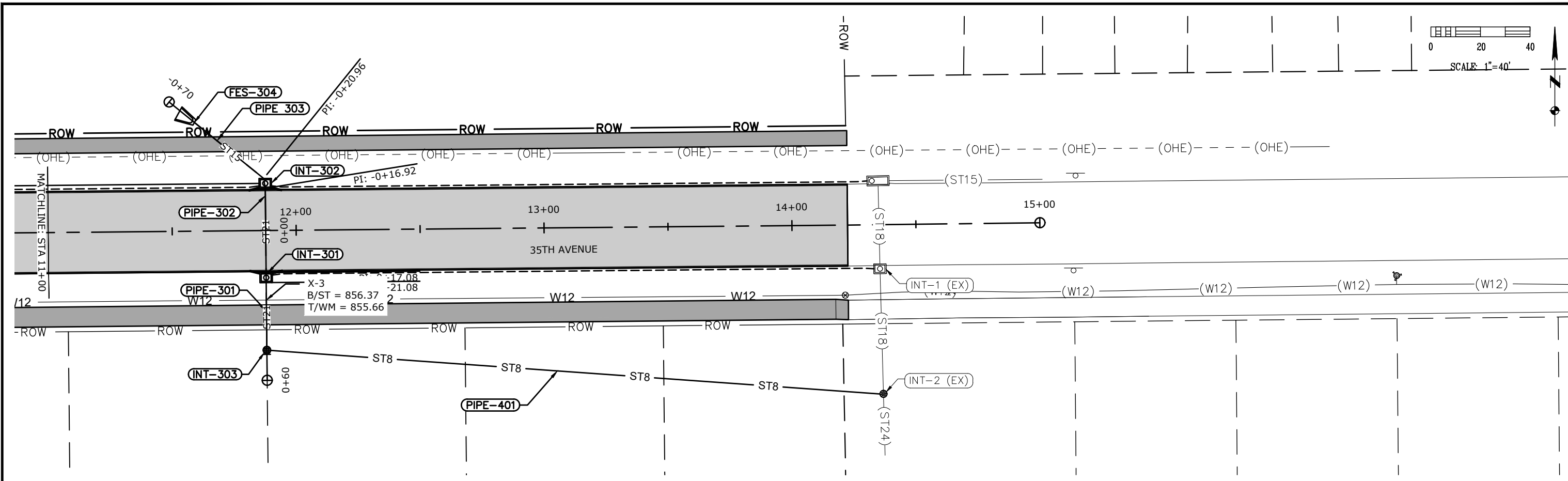
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PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

STORM SEWER PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MST.02

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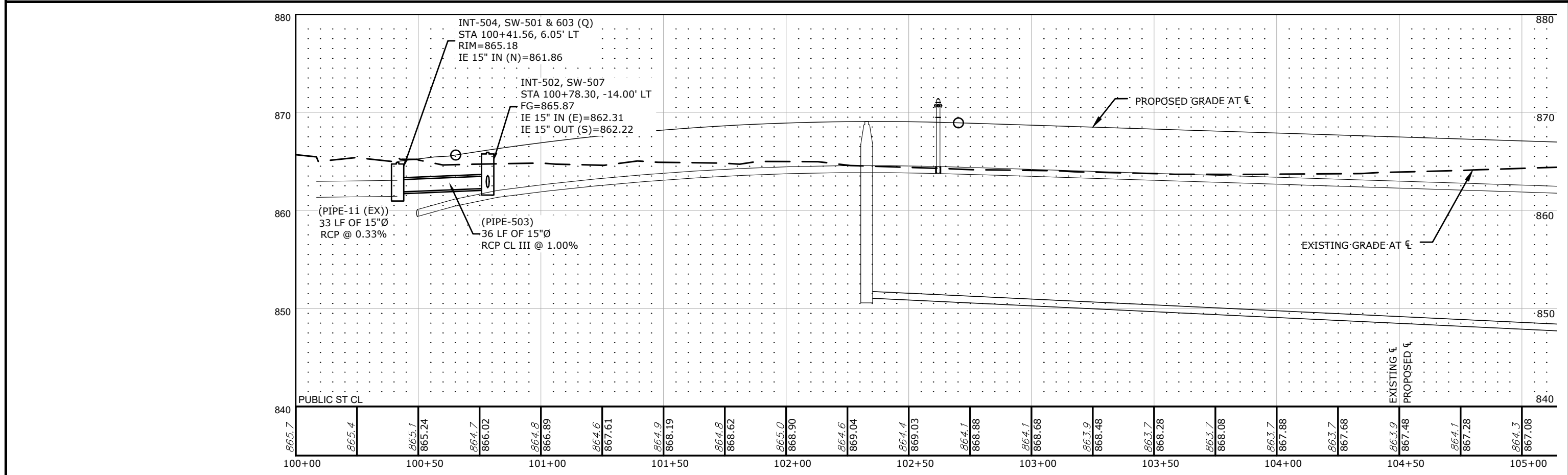
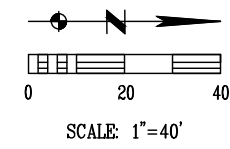
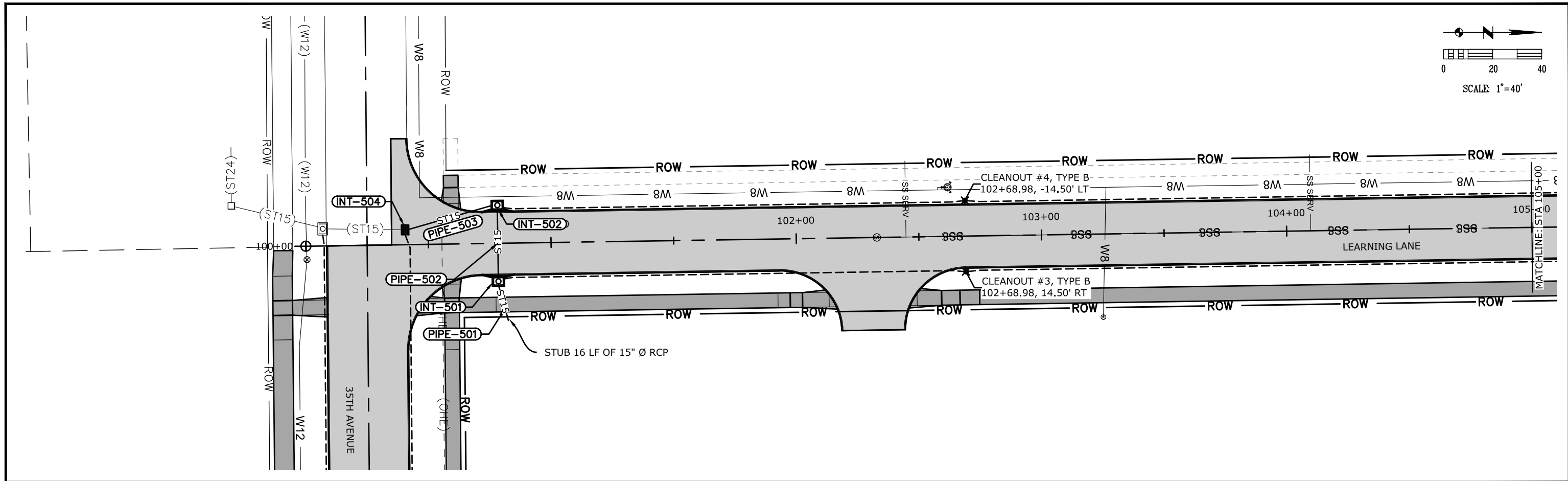
IN THE CITY OF MARION, LINN COUNTY, IOWA

STORM SEWER PLAN & PROFILE

SCALE: 1" = 40' PROJECT NO: 10525-1

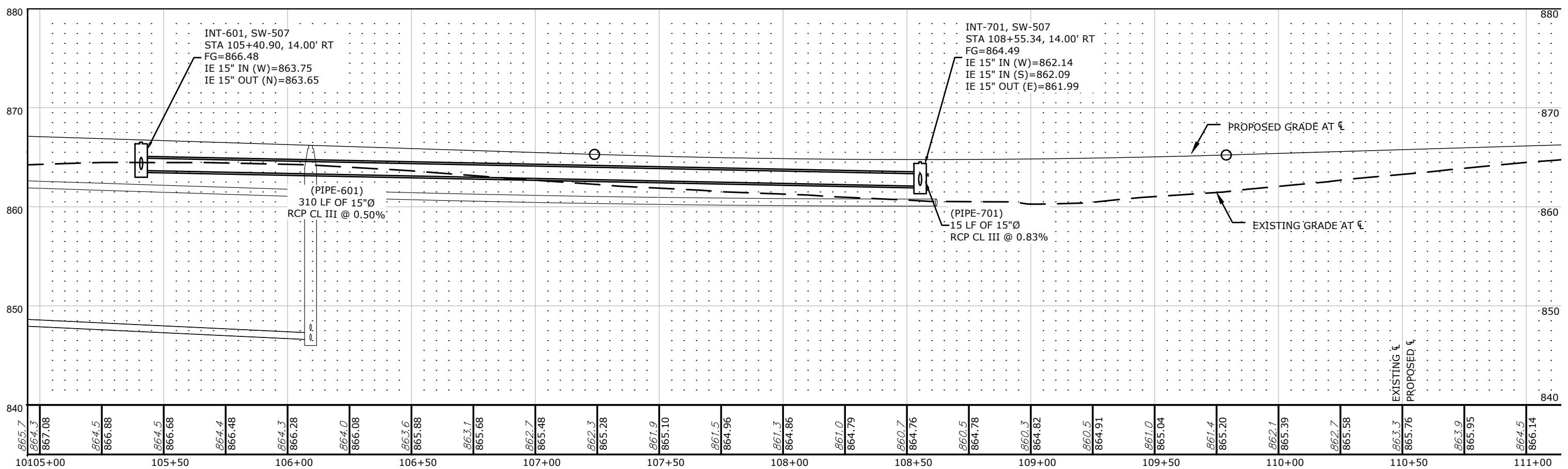
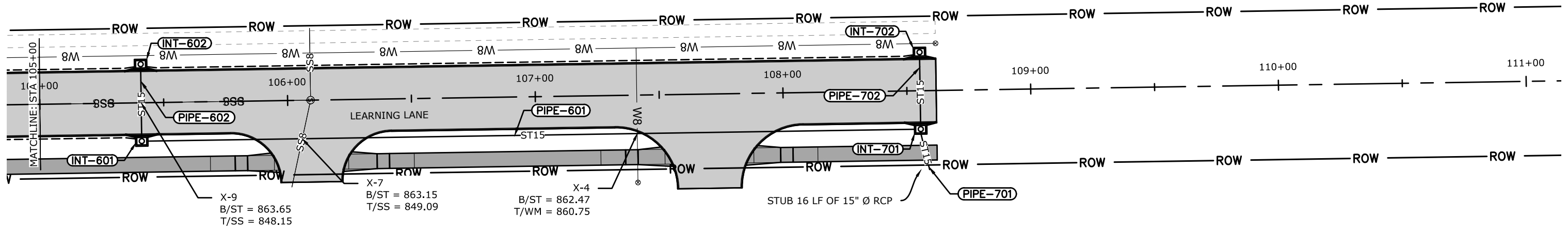
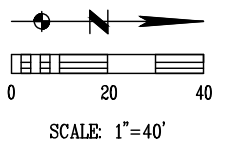
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MST.03

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DRAWN BY: KLH CHECKED BY: MGJ APPROVED BY: MGJ DATE: 05/14/2019 FIELD BOOK: ---	<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION DESCRIPTION</th> <th>APPROVED</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	REVISION DESCRIPTION	APPROVED	DATE														HALL & HALL ENGINEERS, INC. <i>Leaders in Land Development Since 1953</i> 1860 BOYSSON ROAD, HIAWATHA, IOWA 52233 PHONE: (319) 362-9548 FAX: (319) 362-7595 CIVIL ENGINEERING • LANDSCAPE ARCHITECTURE LAND SURVEYING • LAND DEVELOPMENT PLANNING www.halleng.com	35TH AVENUE AND LEARNING LANE PCC PAVING IN THE CITY OF MARION, LINN COUNTY, IOWA	STORM SEWER PLAN & PROFILE SCALE: 1" = 40' PROJECT NO: 10525-1	SHEET MST.04
NO.	REVISION DESCRIPTION	APPROVED	DATE																			

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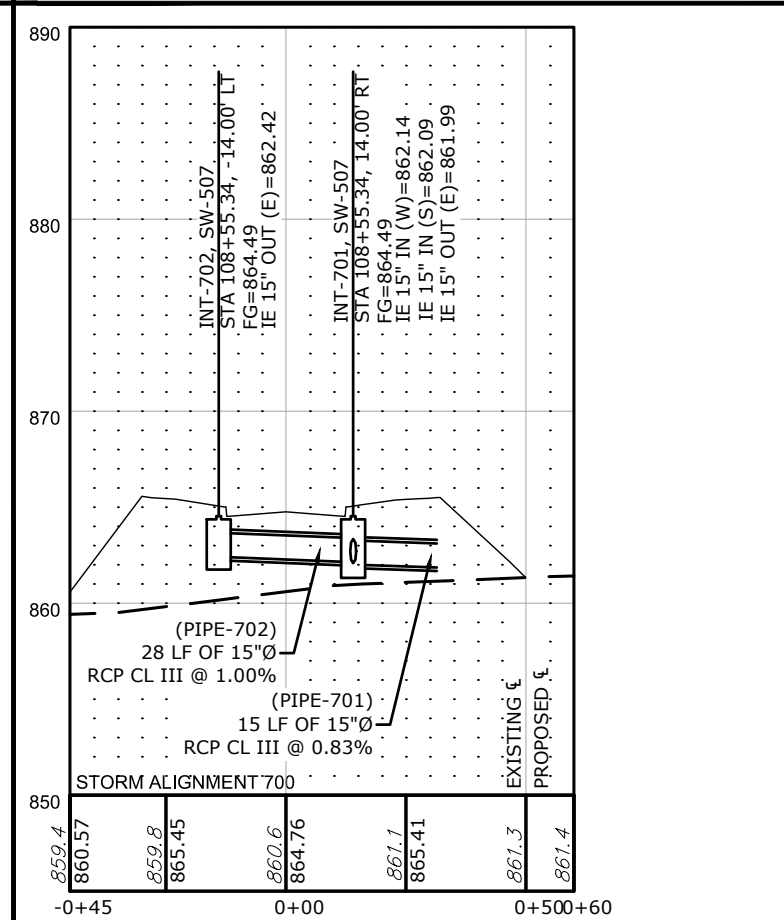
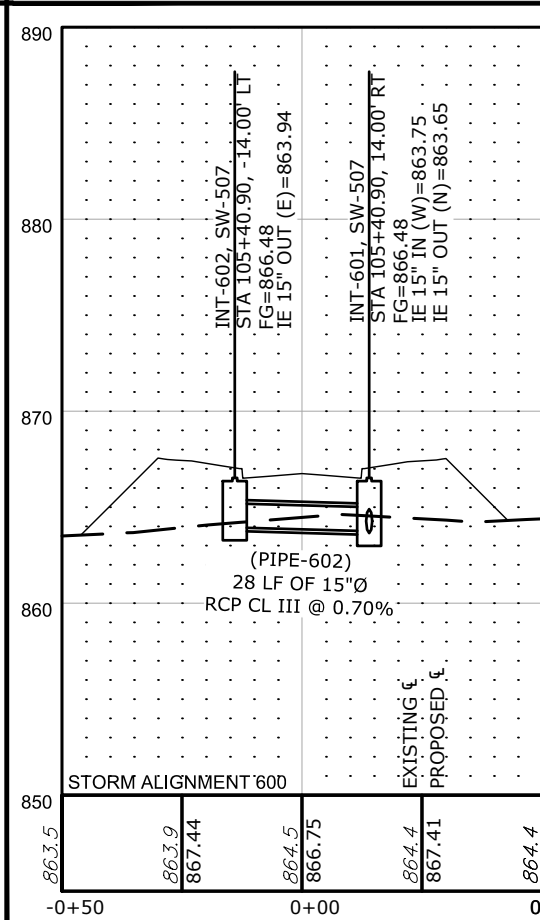
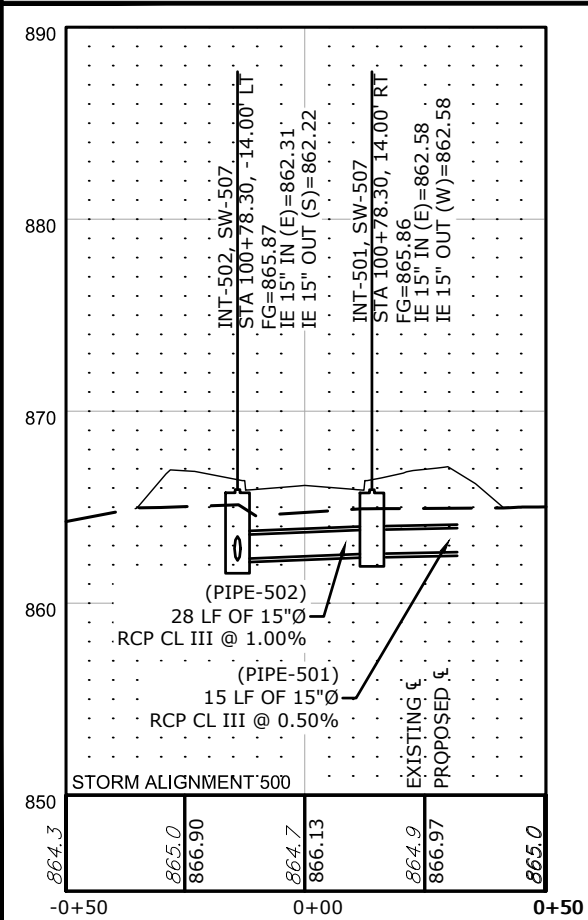
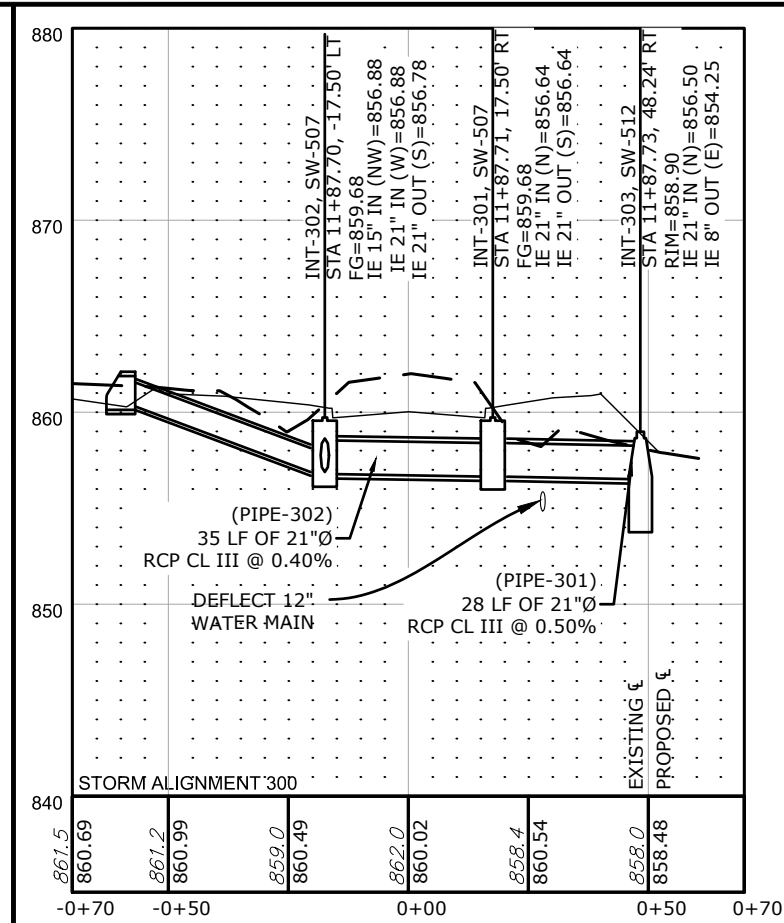
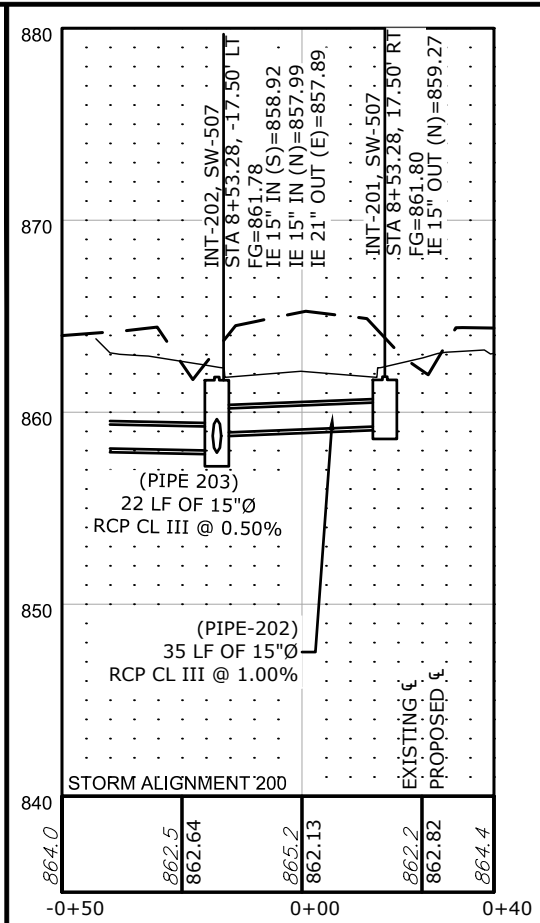
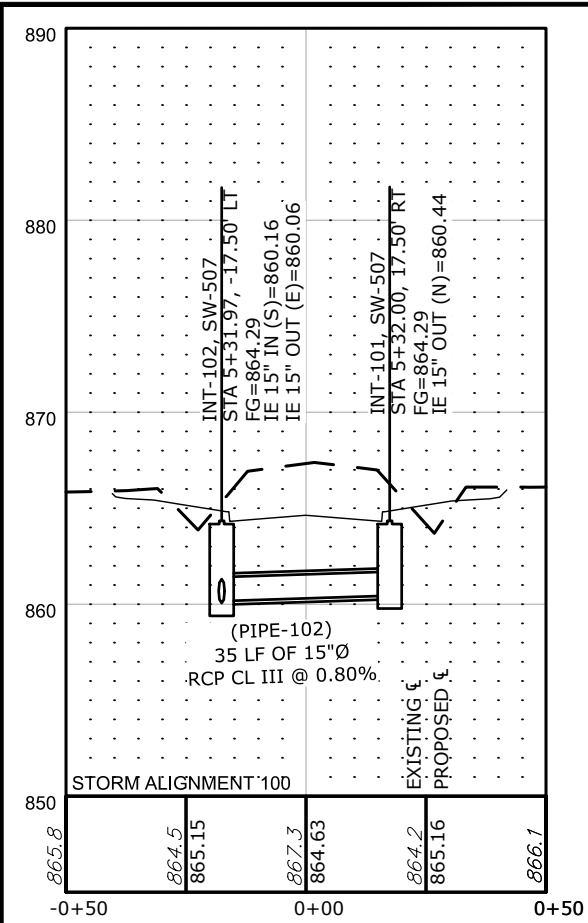


35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

STORM SEWER PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MST.05

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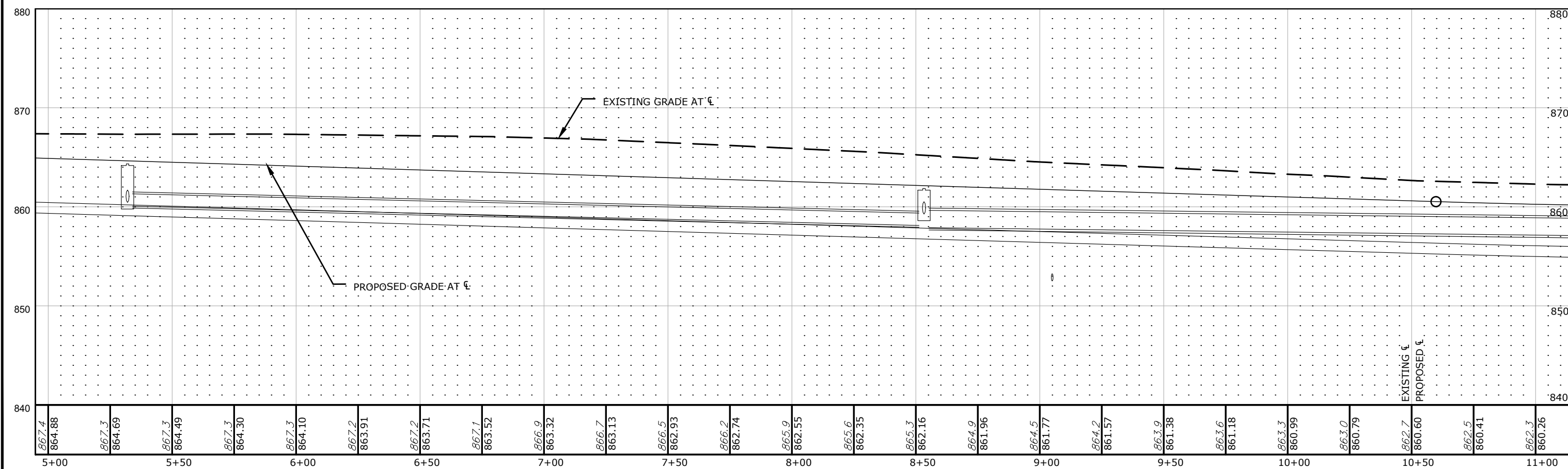
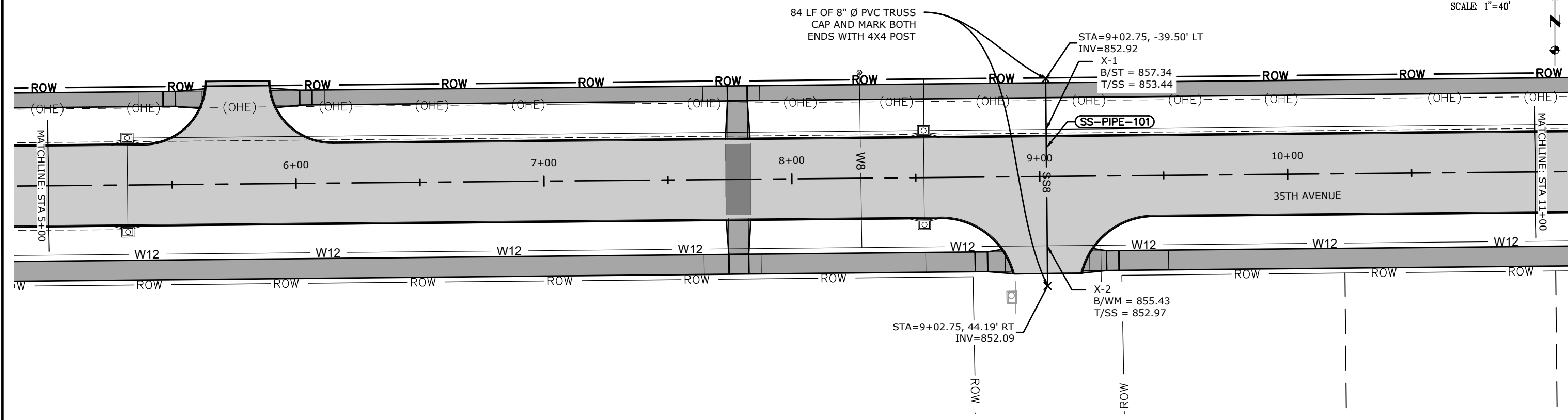
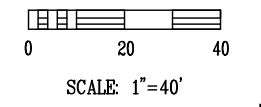


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35TH AVENUE AND LEARNING LANE
PCC PAVING
IN THE CITY OF MARION, LINN COUNTY, IOWA

STORM SEWER PLAN & PROFILE
SCALE: 1" = 40'
PROJECT NO: 10525-1

SHEET
MST.06



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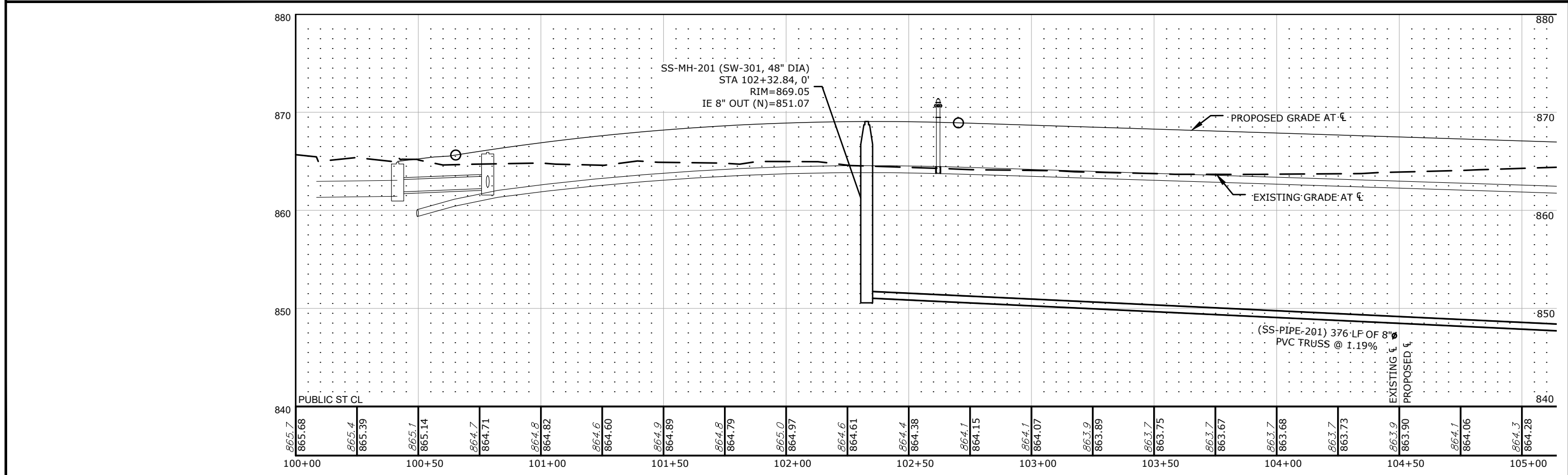
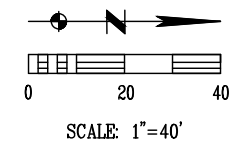
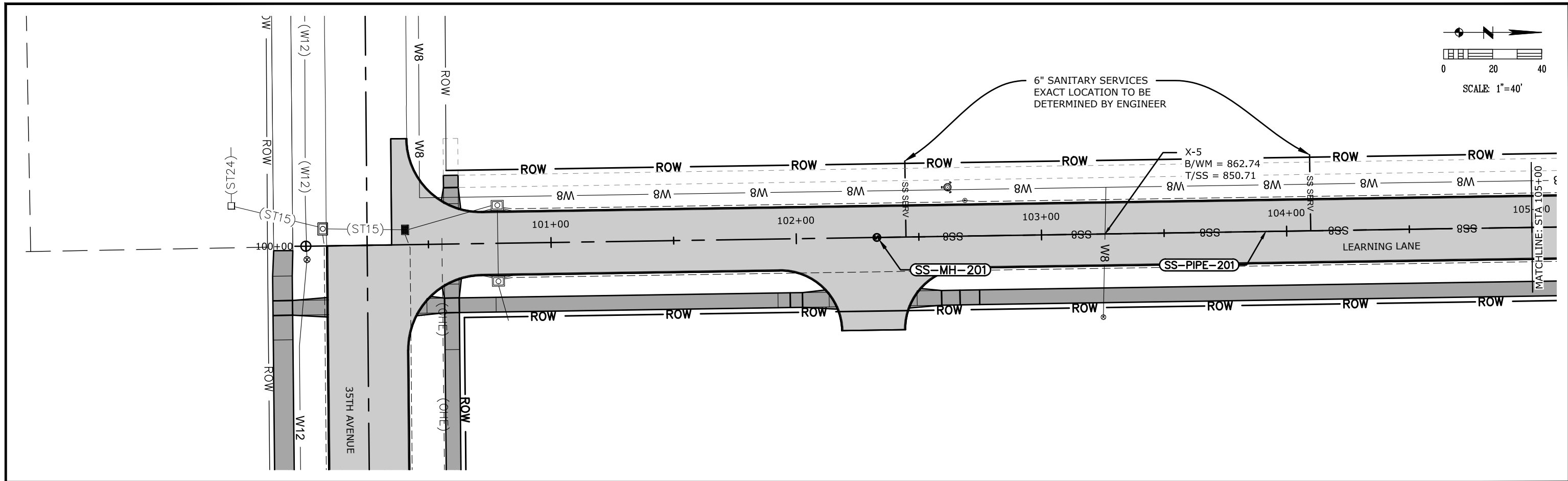


**35TH AVENUE AND LEARNING LANE
 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SANITARY SEWER PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MSA.01

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IN THE CITY OF MARION, LINN COUNTY, IOWA

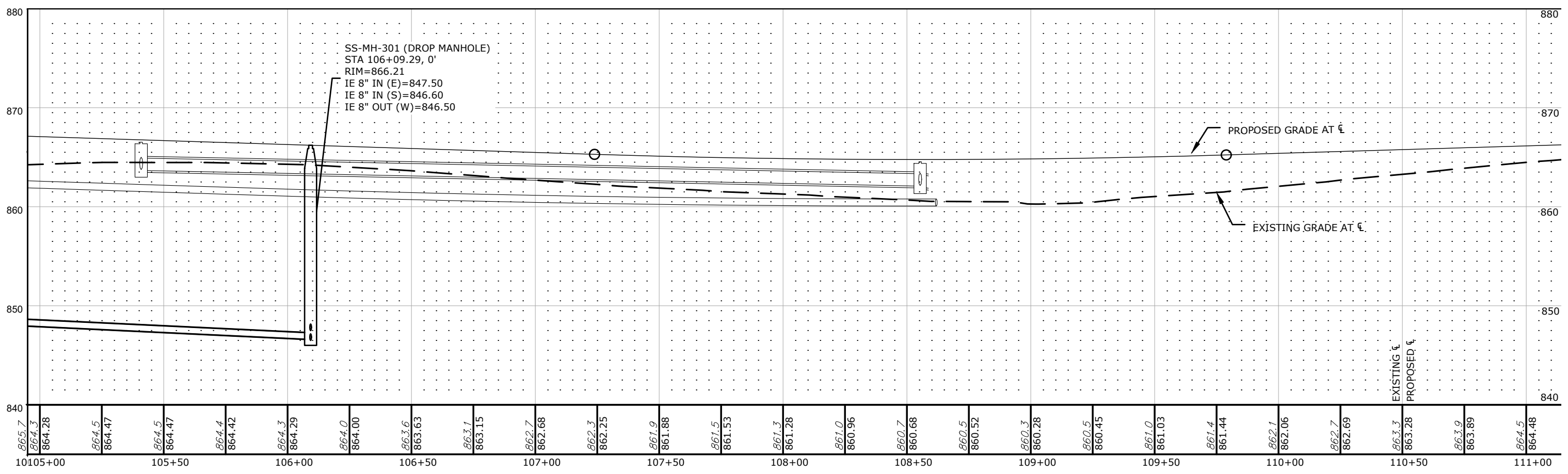
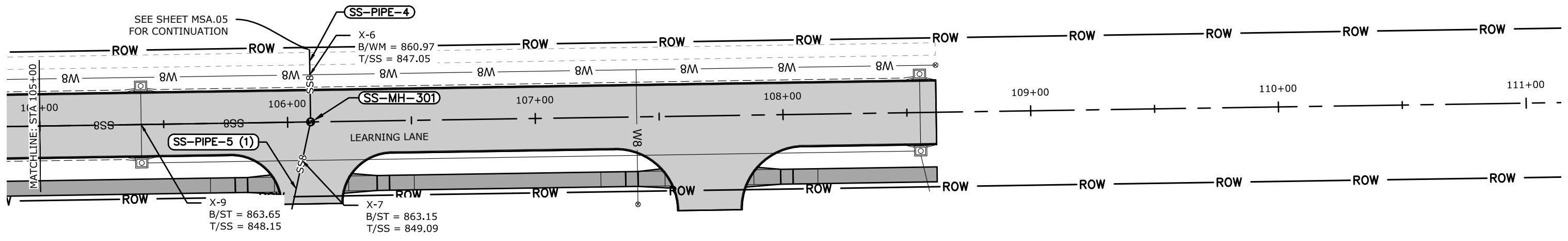
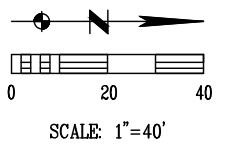
SANITARY SEWER PLAN & PROFILE

SCALE: 1" = 40'

PROJECT NO: 10525-1

SHEET
MSA.02

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 PCC PAVING**

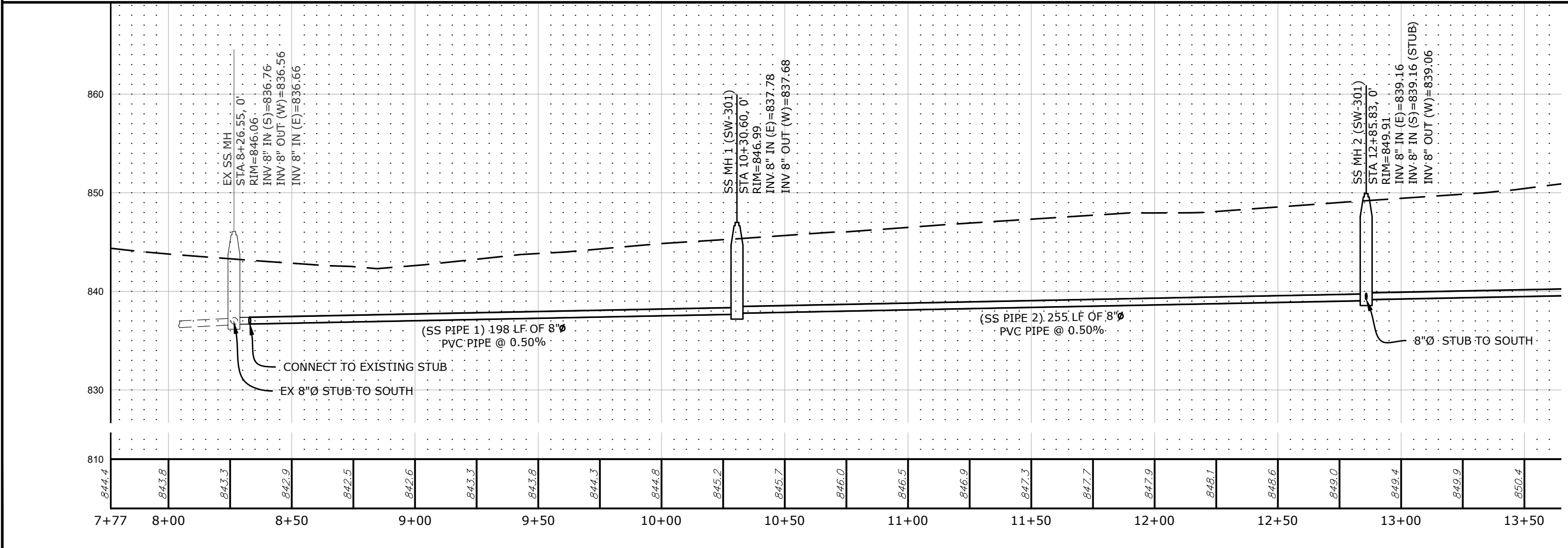
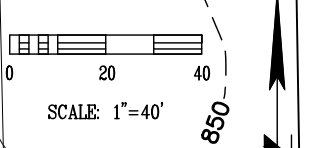
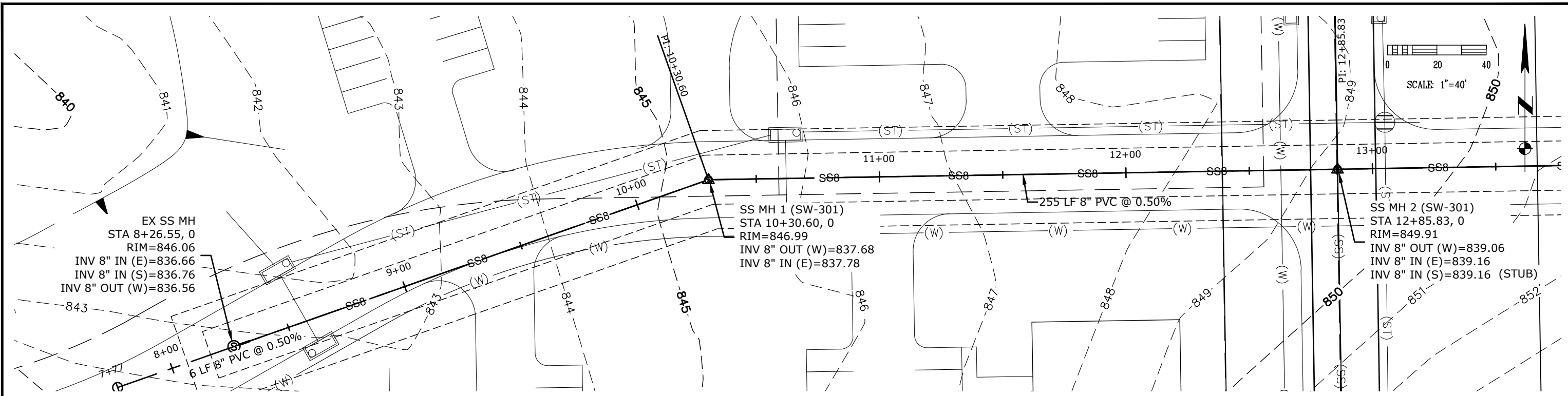
IN THE CITY OF MARION, LINN COUNTY, IOWA

SANITARY SEWER PLAN & PROFILE

SCALE: 1" = 40' PROJECT NO: 10525-1

SHEET
MSA.03

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35TH AVENUE AND LEARNING LANE
 PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

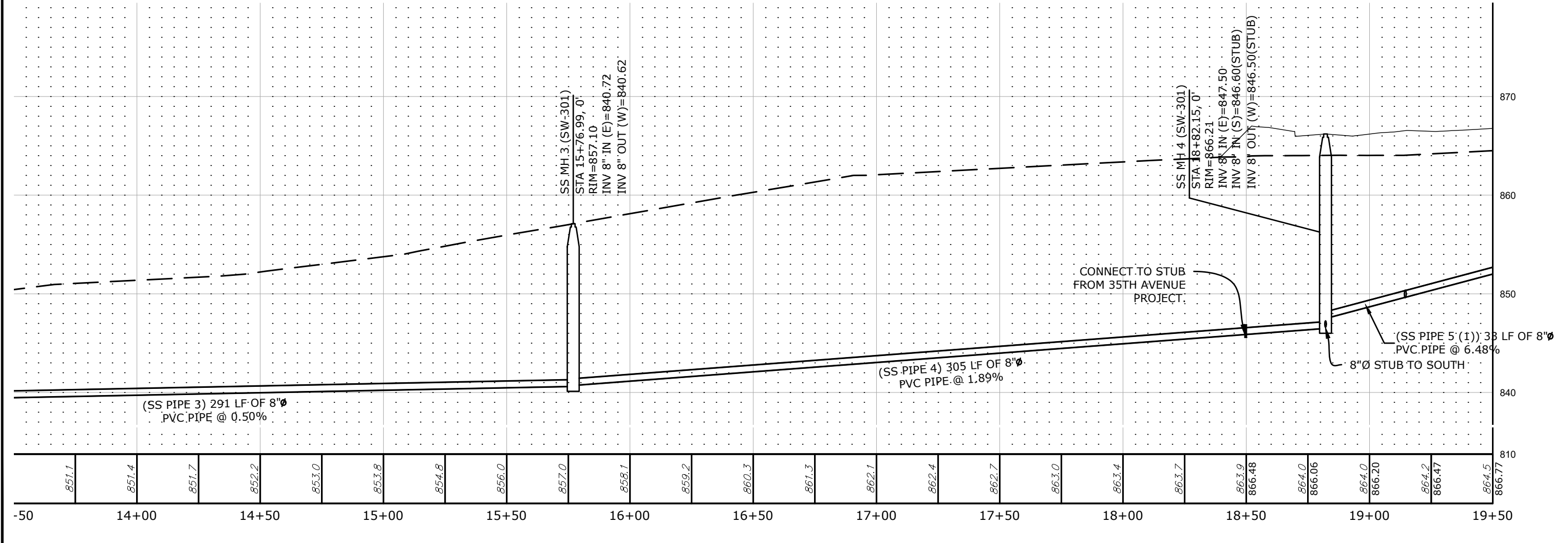
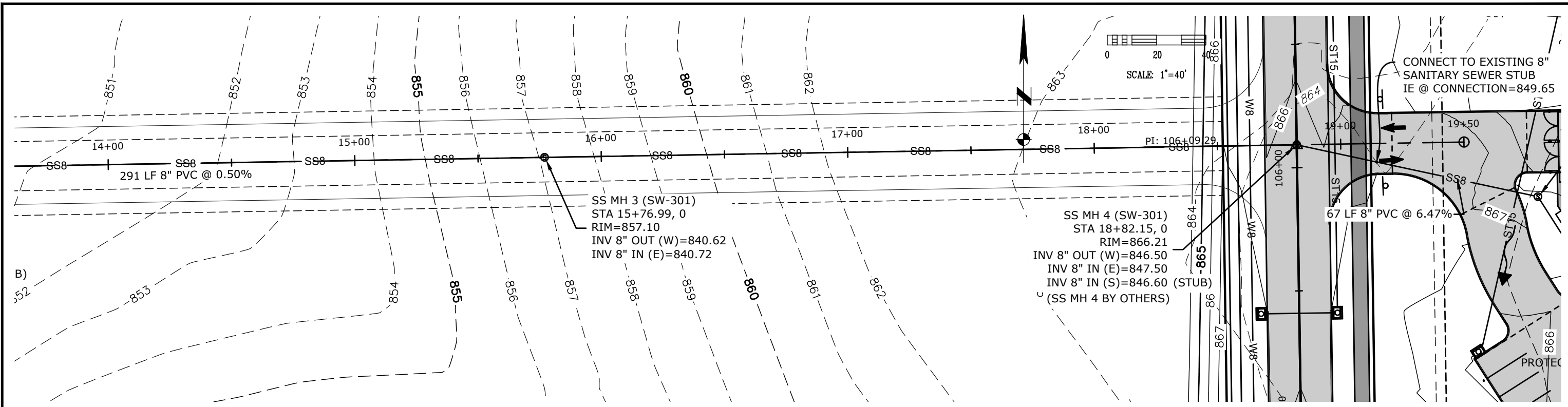
SANITARY SEWER PLAN & PROFILE

SCALE: 1" = 40'

PROJECT NO: 10525-1

SHEET
 MSA.04

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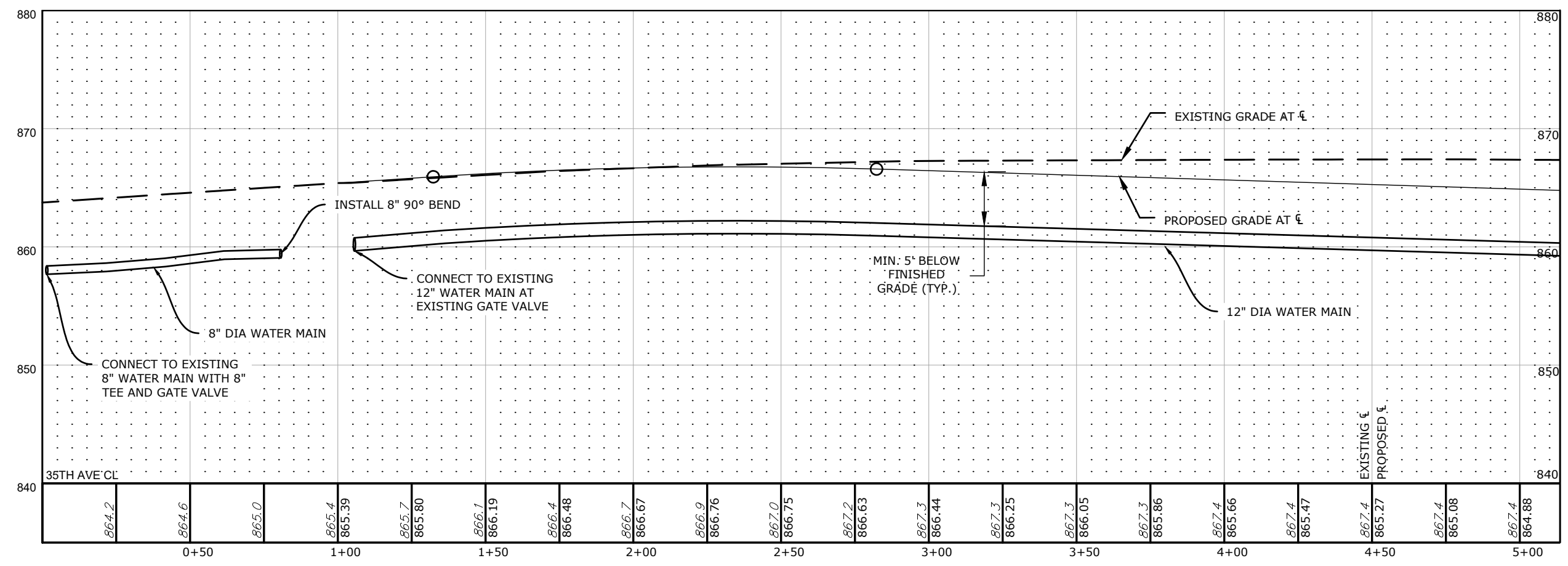
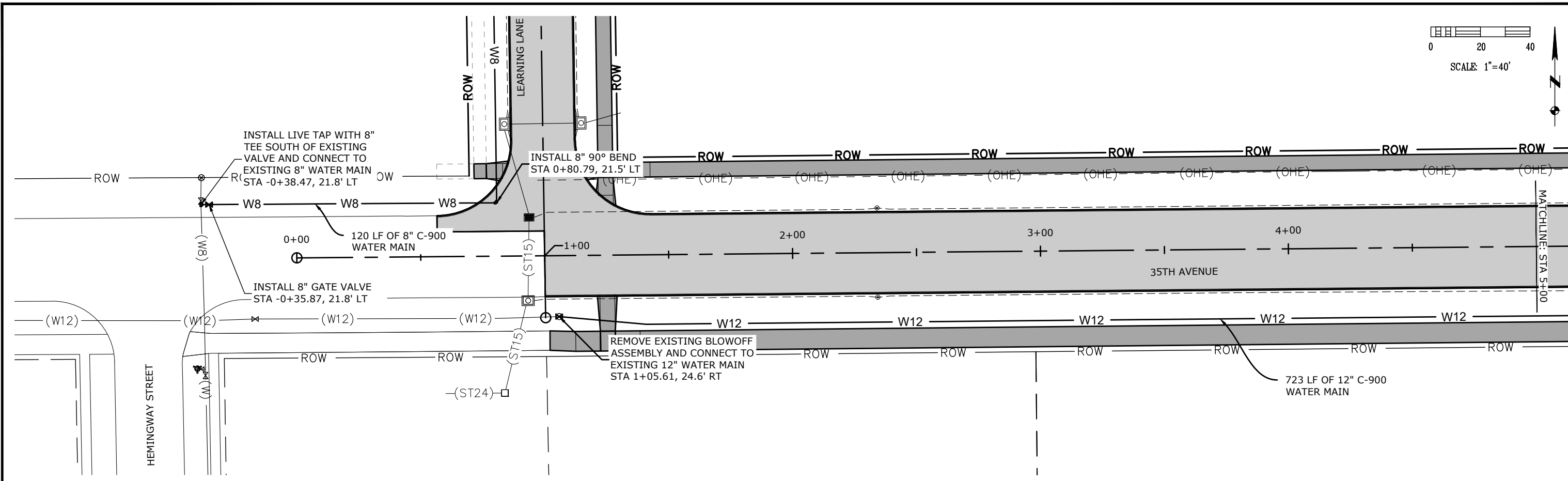
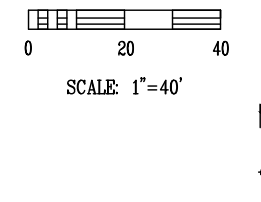
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 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SANITARY SEWER PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MSA.05



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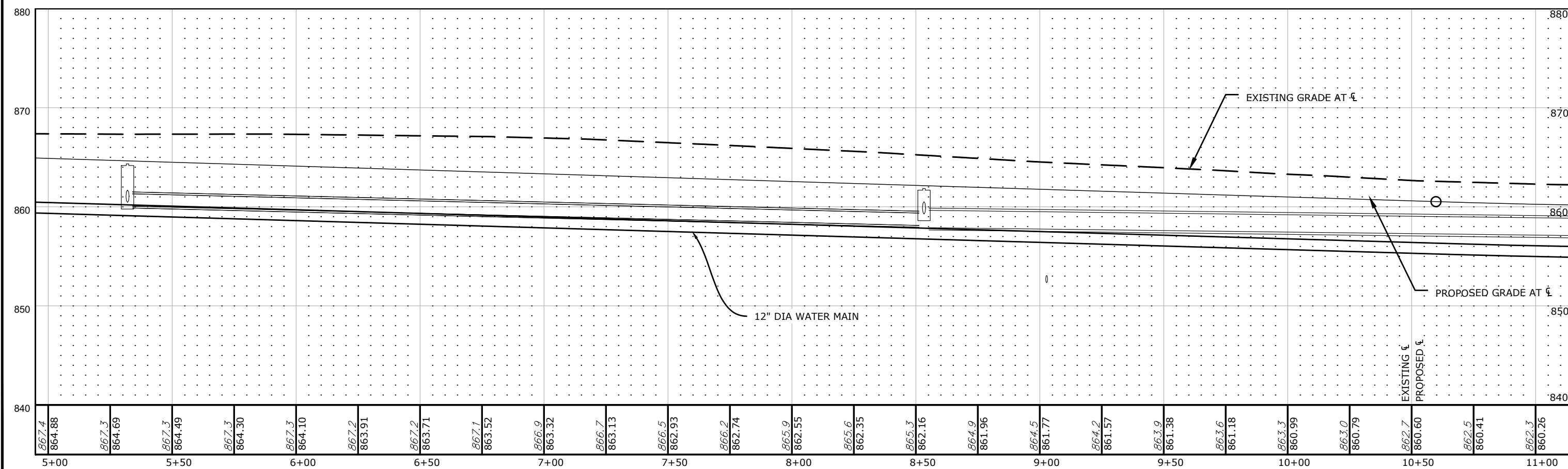
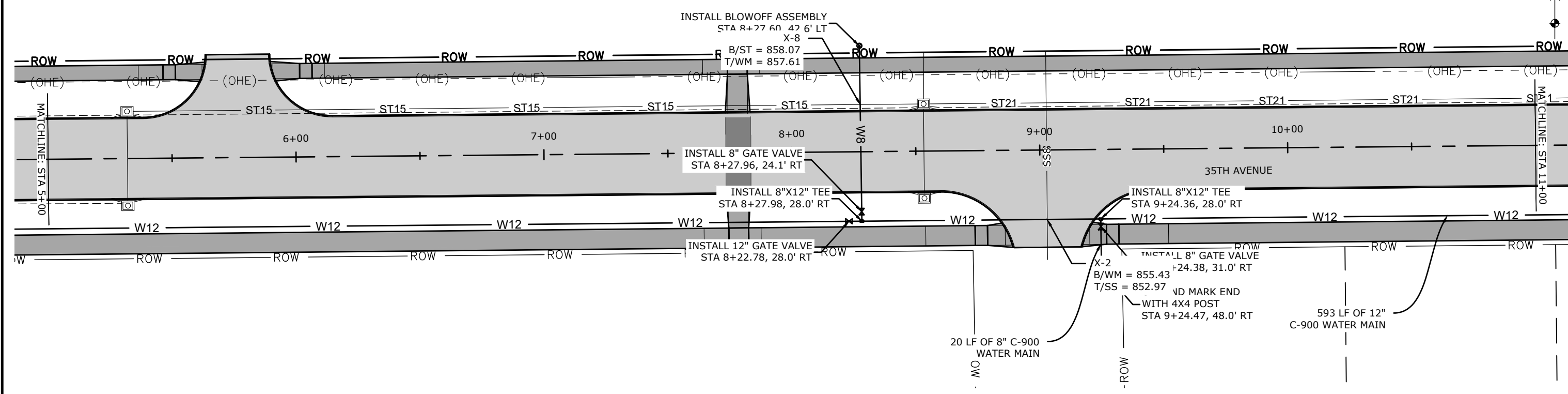
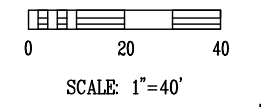
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 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

WATER MAIN PLAN AND PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MWM.01

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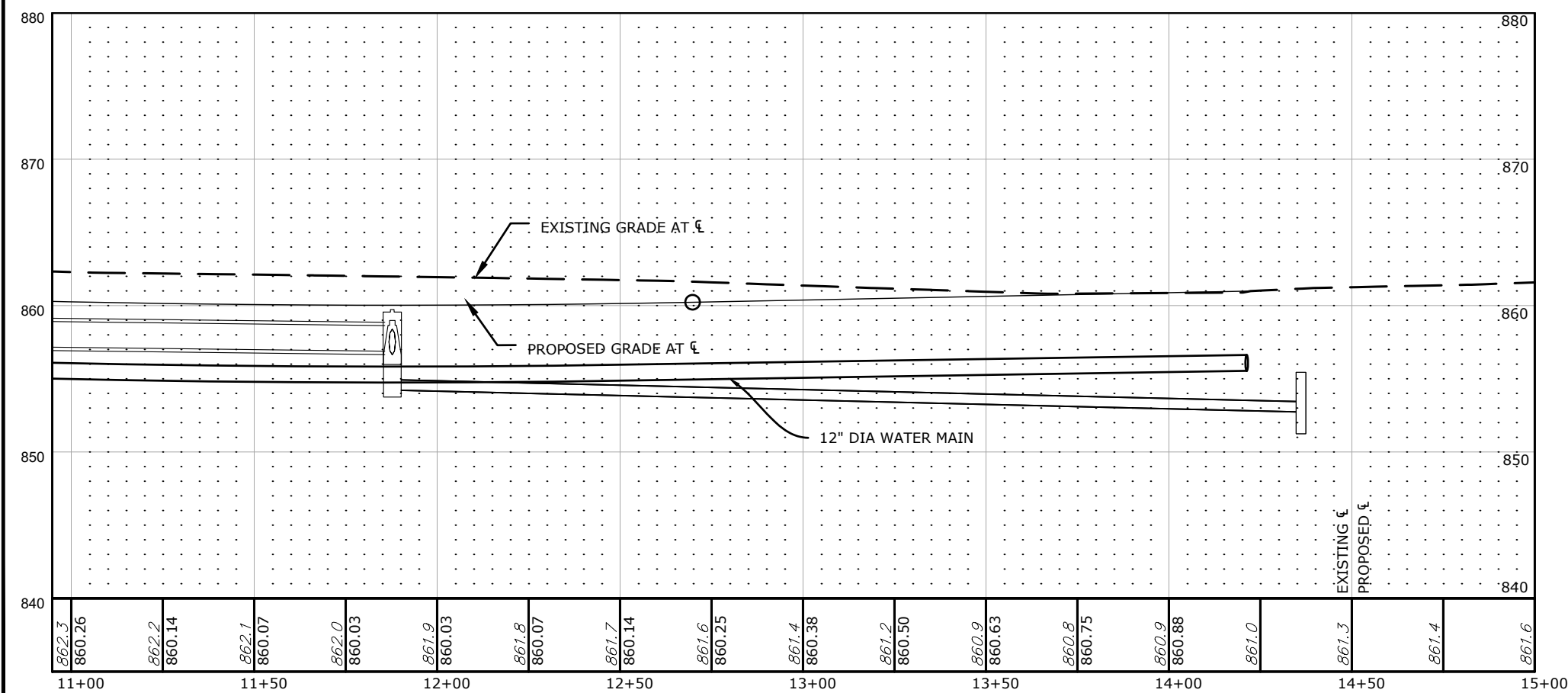
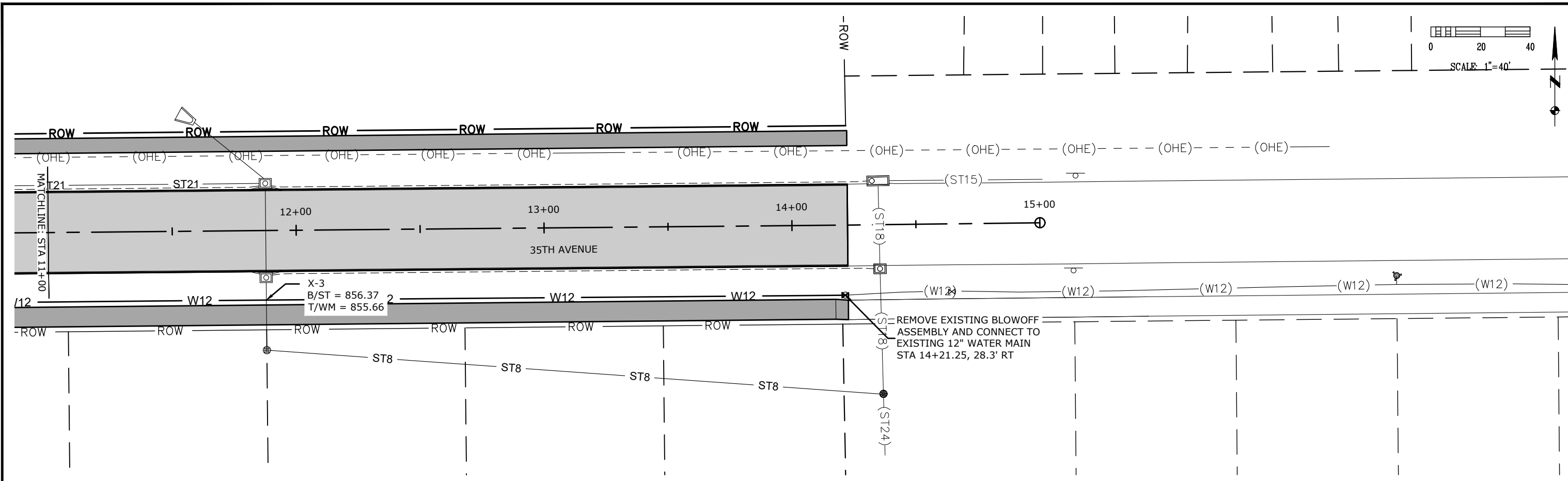
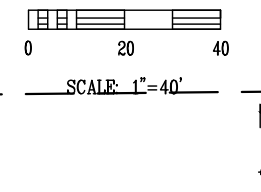


35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

WATER MAIN PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MWM.02

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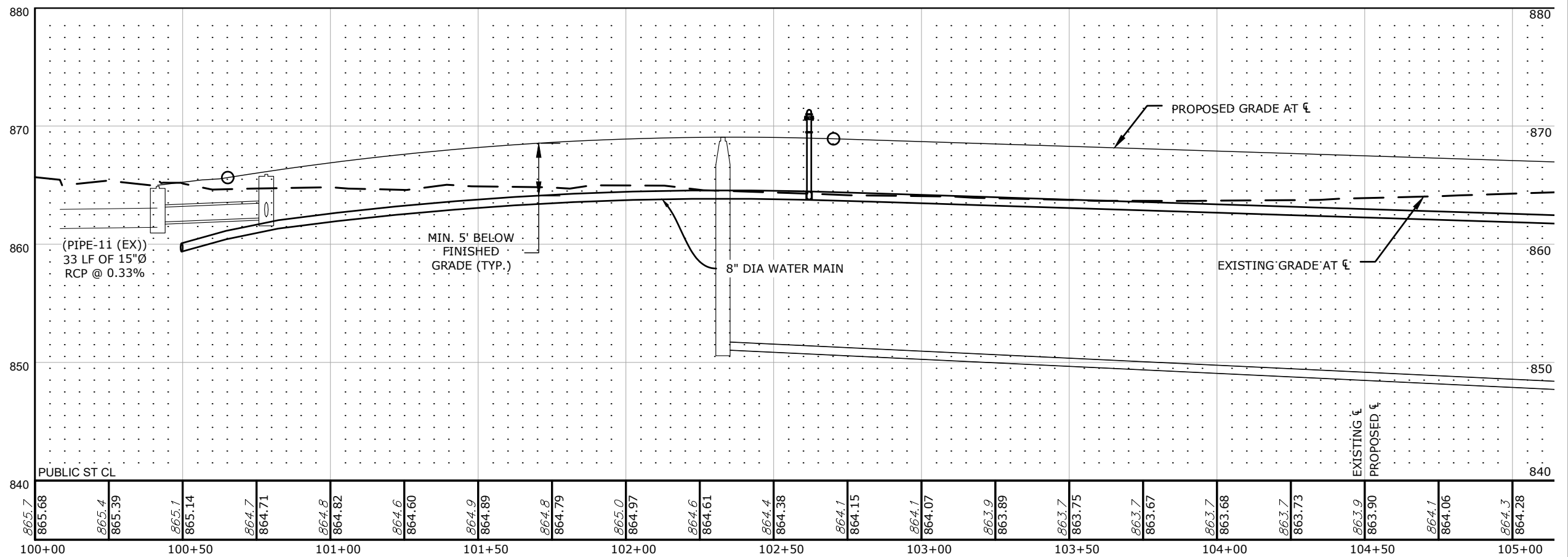
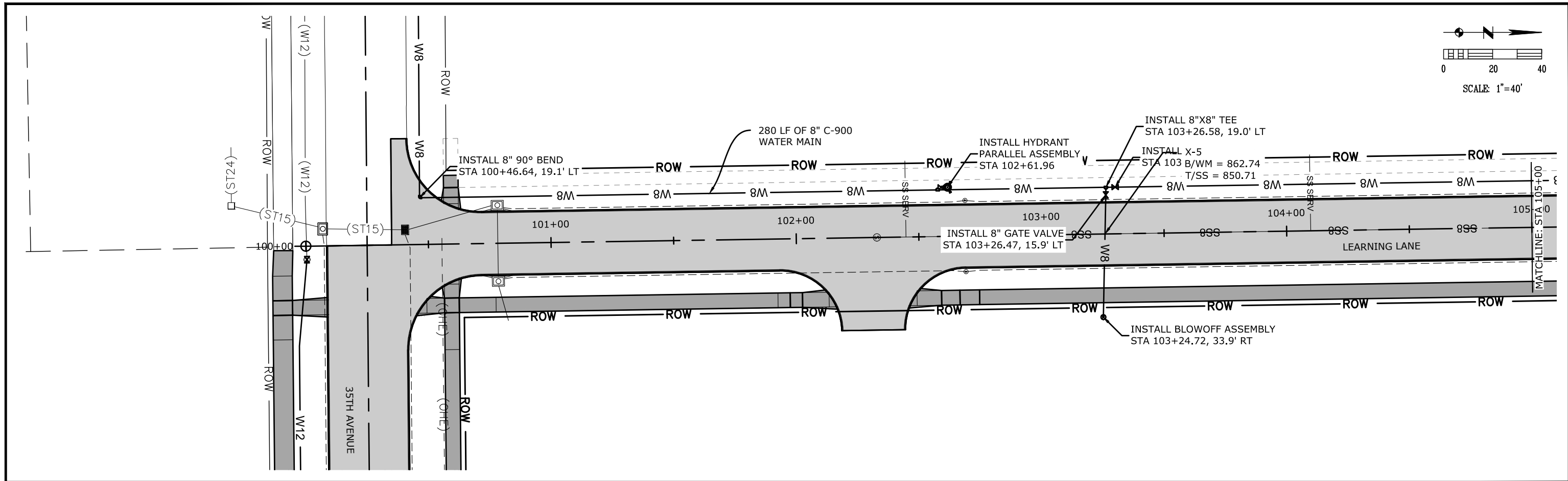


35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

WATER MAIN PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MWM.03

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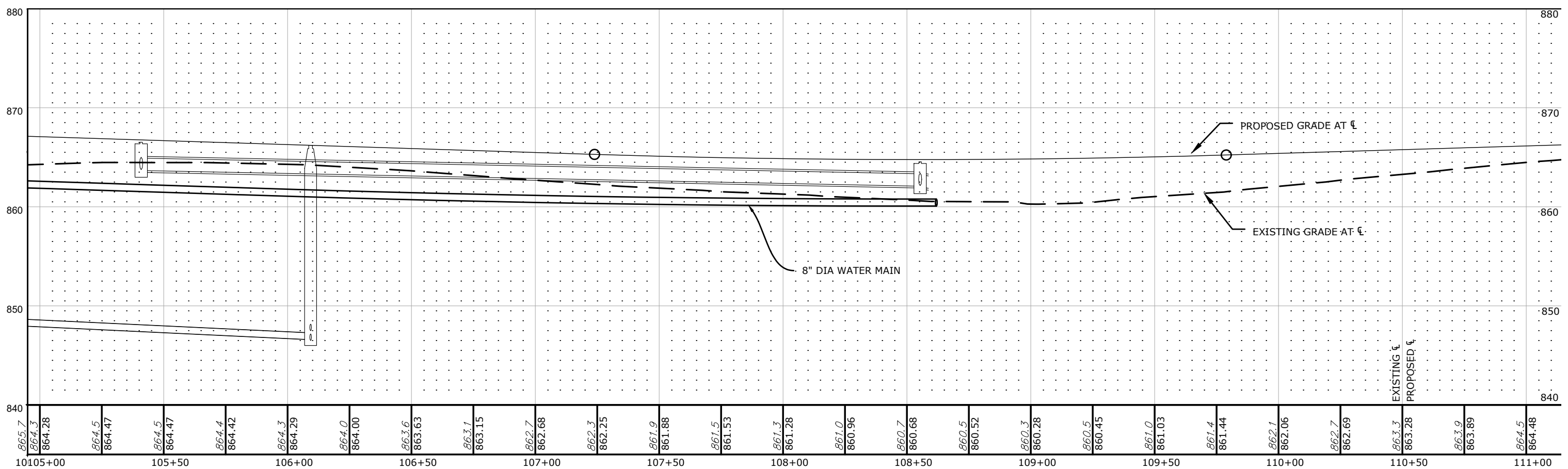
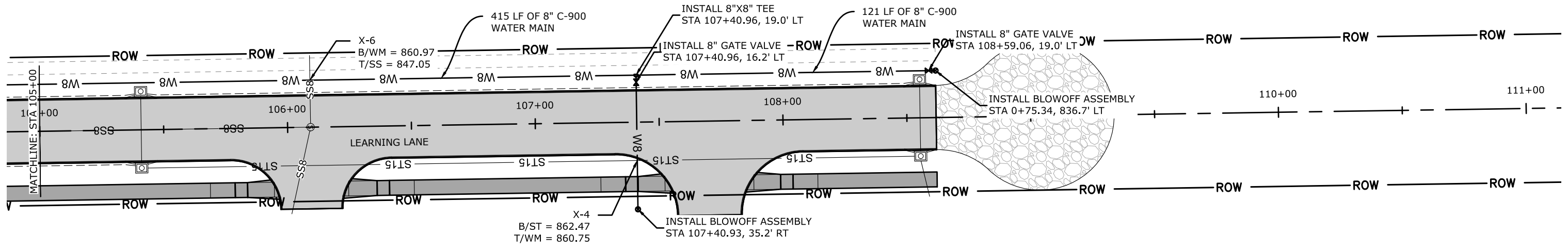
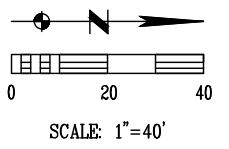
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35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

WATER MAIN PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
MWM.04

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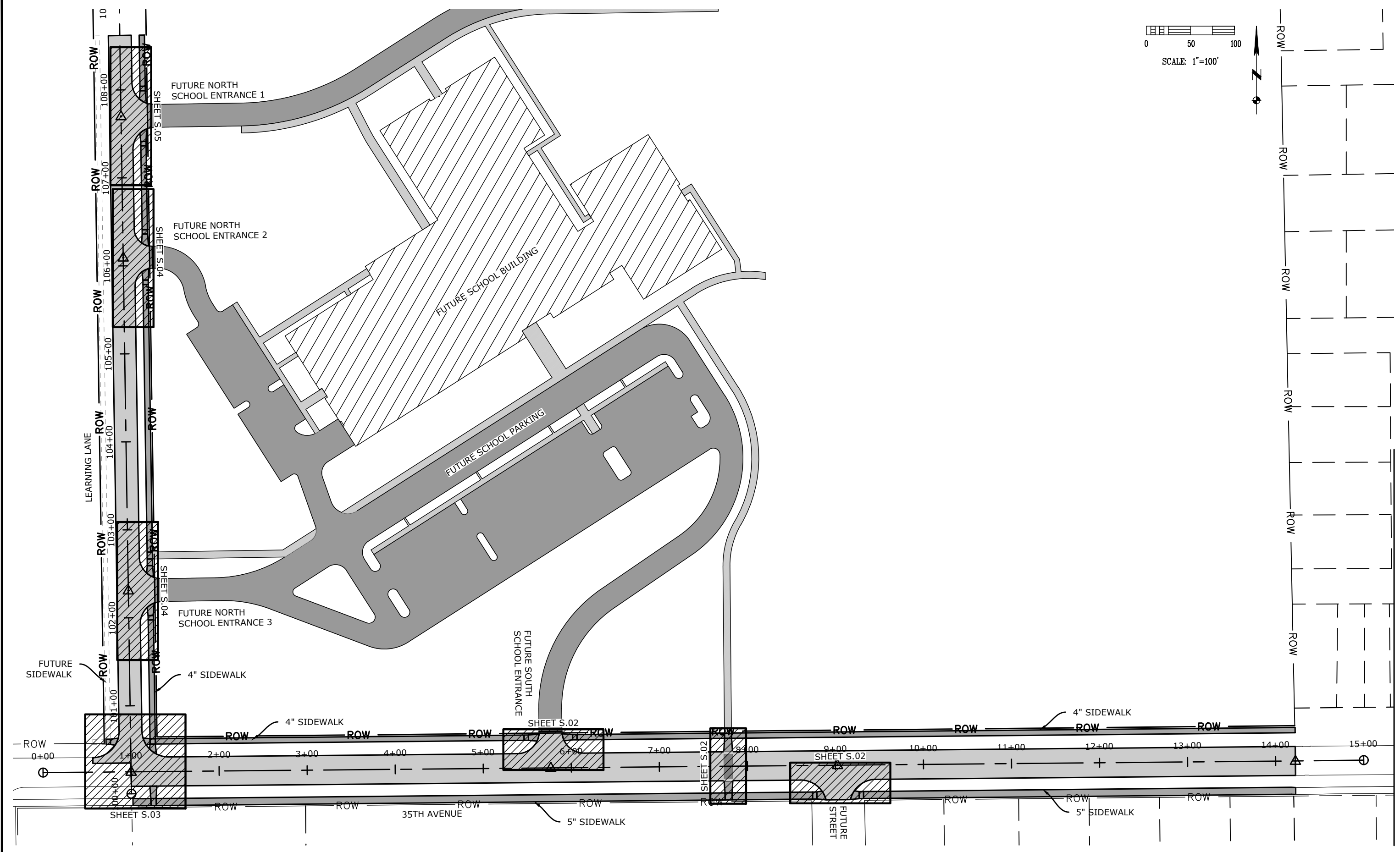
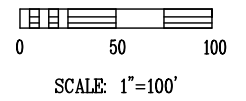


**35TH AVENUE AND LEARNING LANE
 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

WATER MAIN PLAN & PROFILE
 SCALE: 1" = 40'
 PROJECT NO: 10525-1

SHEET
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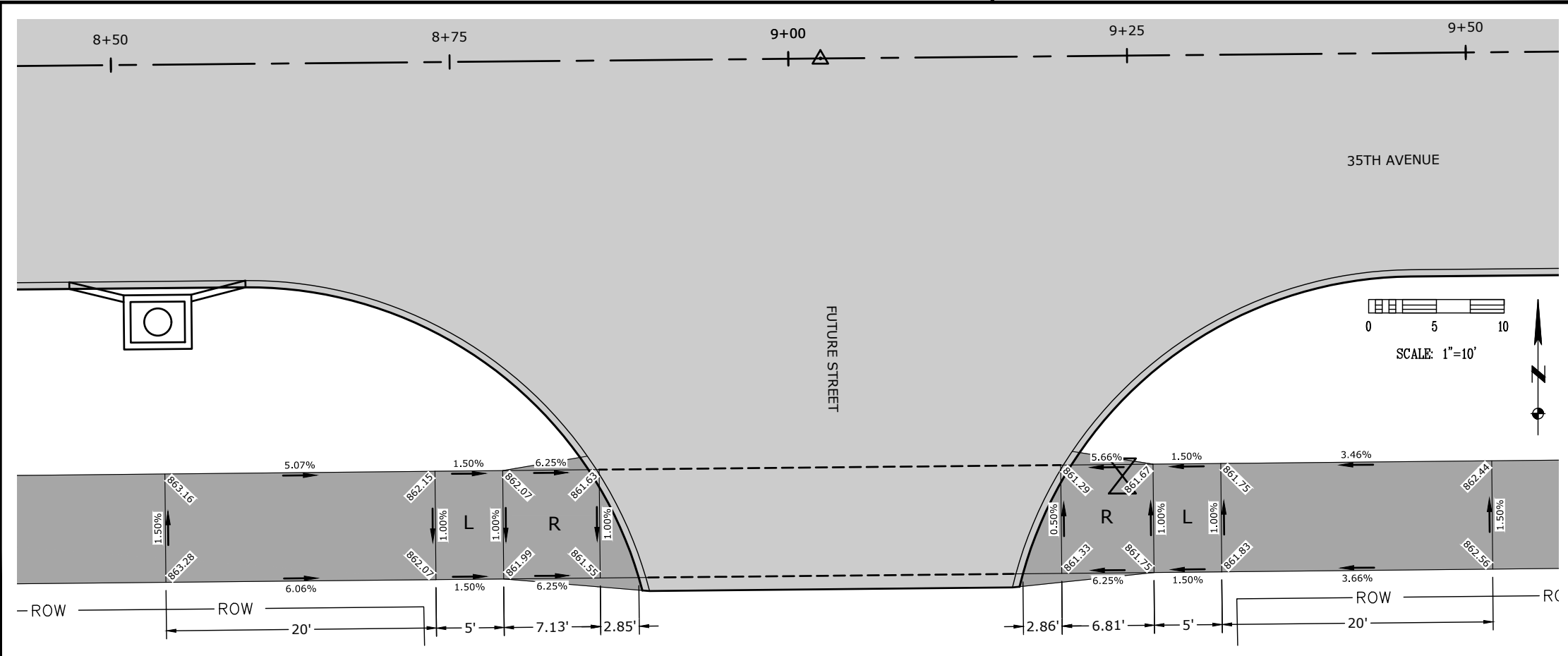
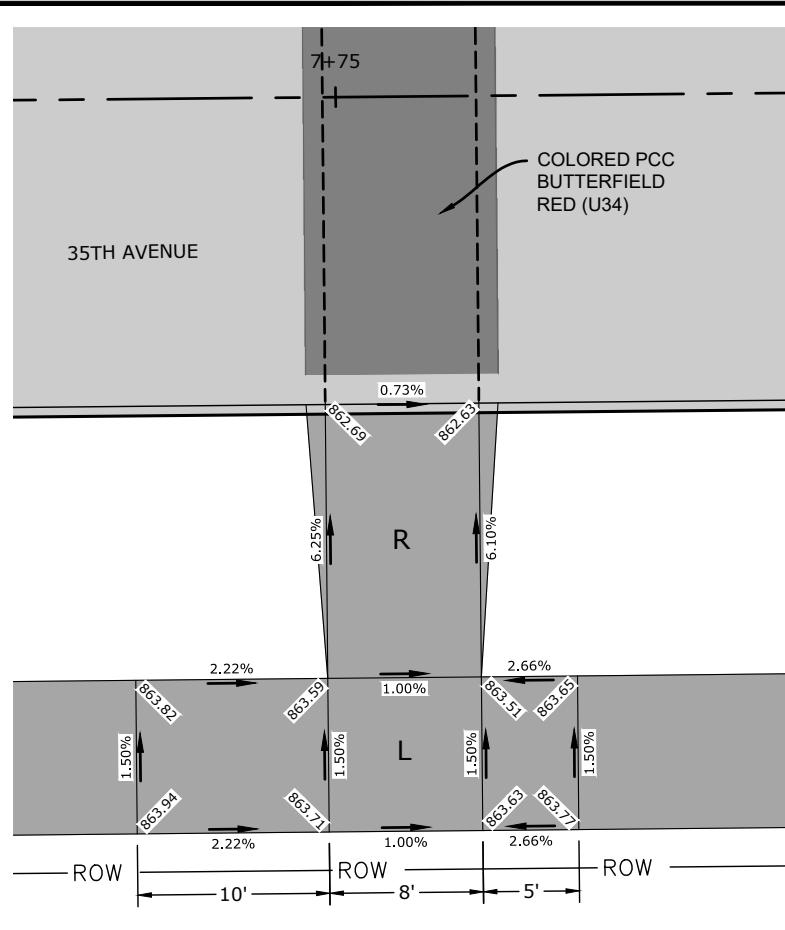
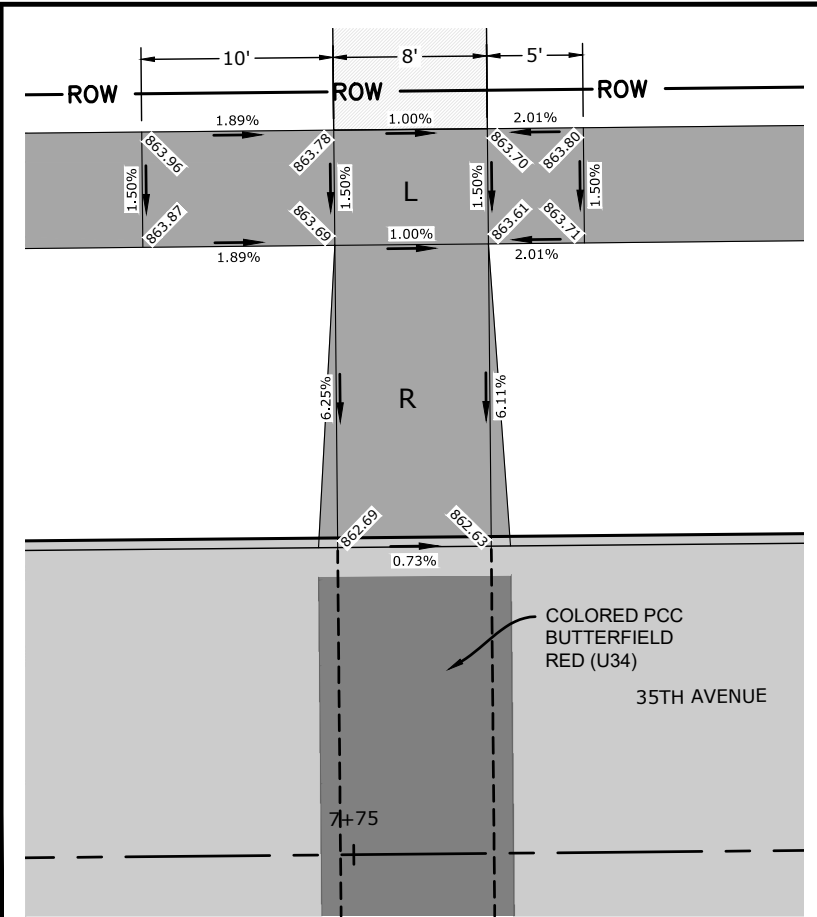
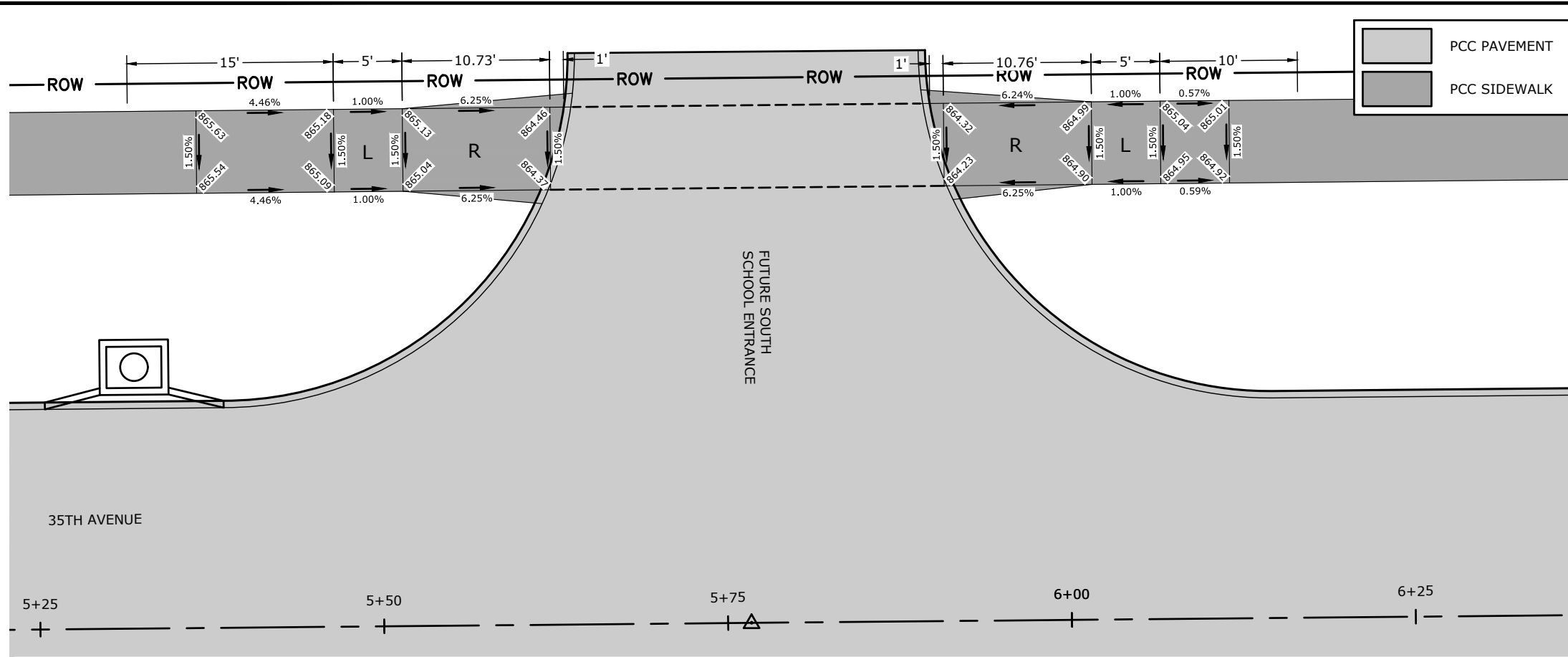
35TH AVENUE AND LEARNING LANE
PCC PAVING

IN THE CITY OF MARION, LINN COUNTY, IOWA

SIDEWALK RAMP DETAILS

SCALE: 1" = 100' PROJECT NO: 10525-1

SHEET
S.01



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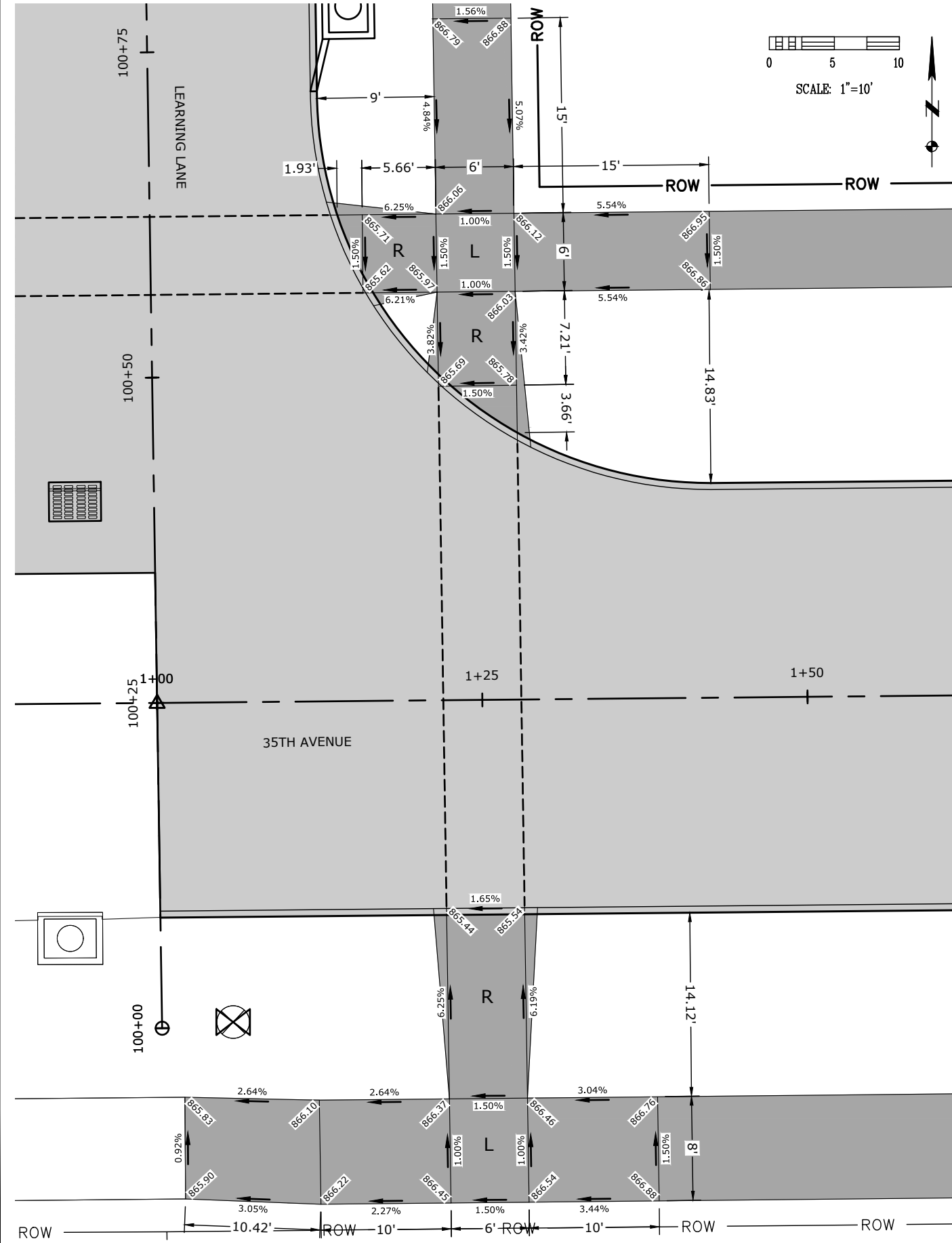
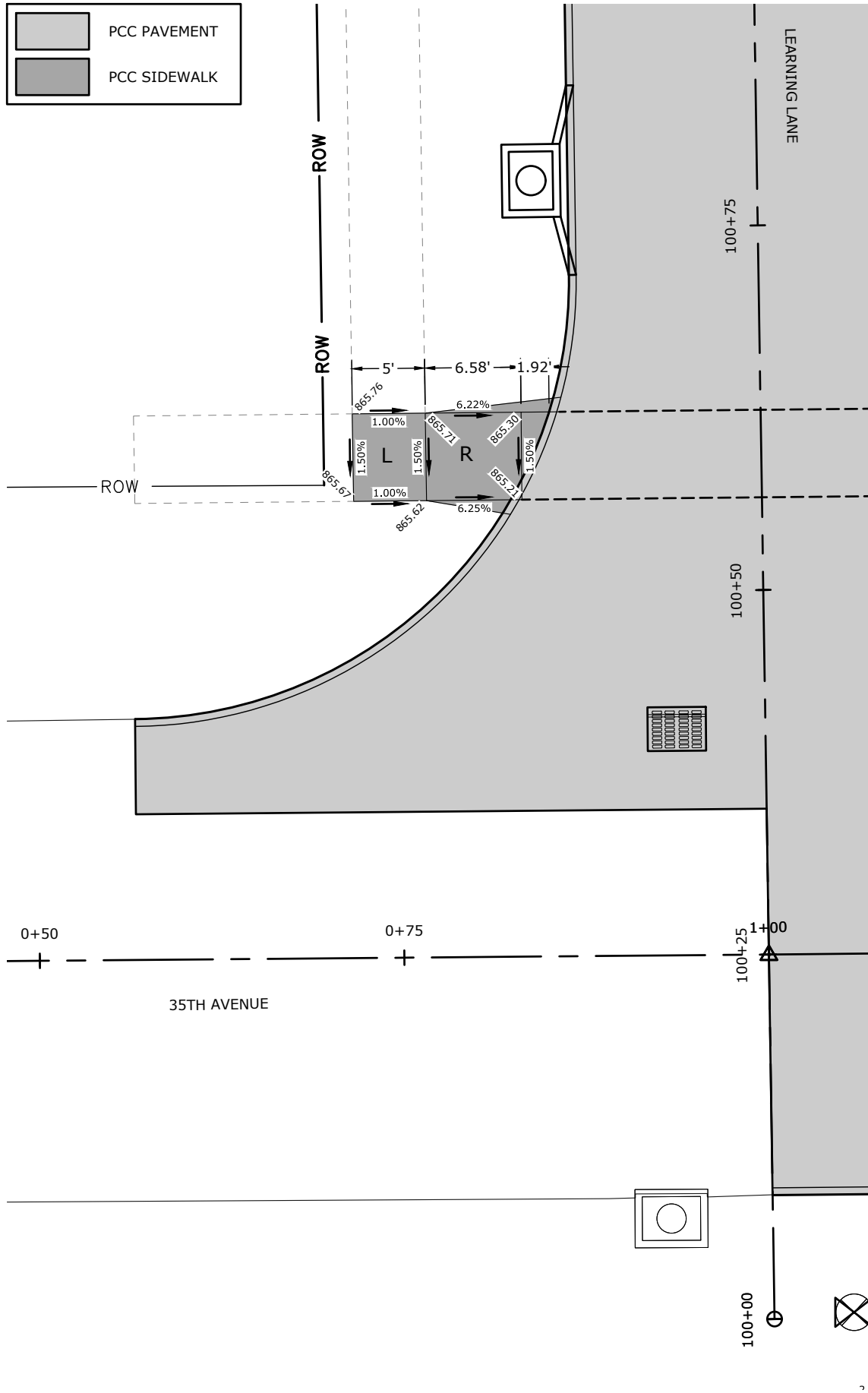
**35TH AVENUE AND LEARNING LANE
 PCC PAVING**
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SIDEWALK RAMP DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
S.02

CAD File: I:\projects\10500\10525-1_35th Ave\DWG\POI\35th Ave\1 - SIDEWALK.dwg Date Plotted: Wednesday, May 15, 2019 11:43:42 AM Plotted By: Kelda Hankins

	PCC PAVEMENT
	PCC SIDEWALK



DRAWN BY: KLH				
CHECKED BY: MGJ				
APPROVED BY: MGJ				
DATE: 05/14/2019				
FIELD BOOK: ---	NO.	REVISION DESCRIPTION	APPROVED	DATE



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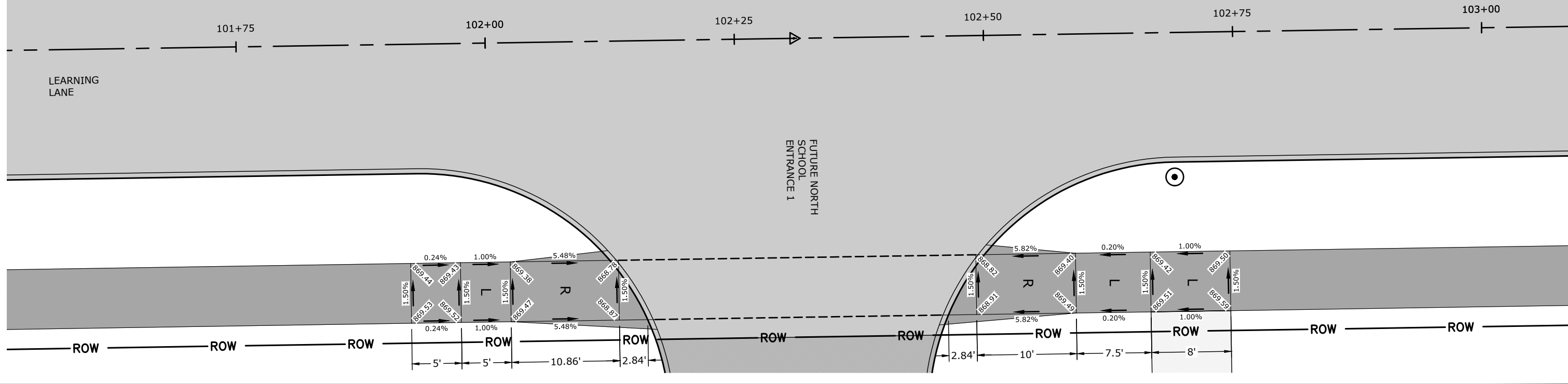
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SIDEWALK RAMP DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
S.03

PCC PAVEMENT
 PCC SIDEWALK

SCALE: 1"=10'



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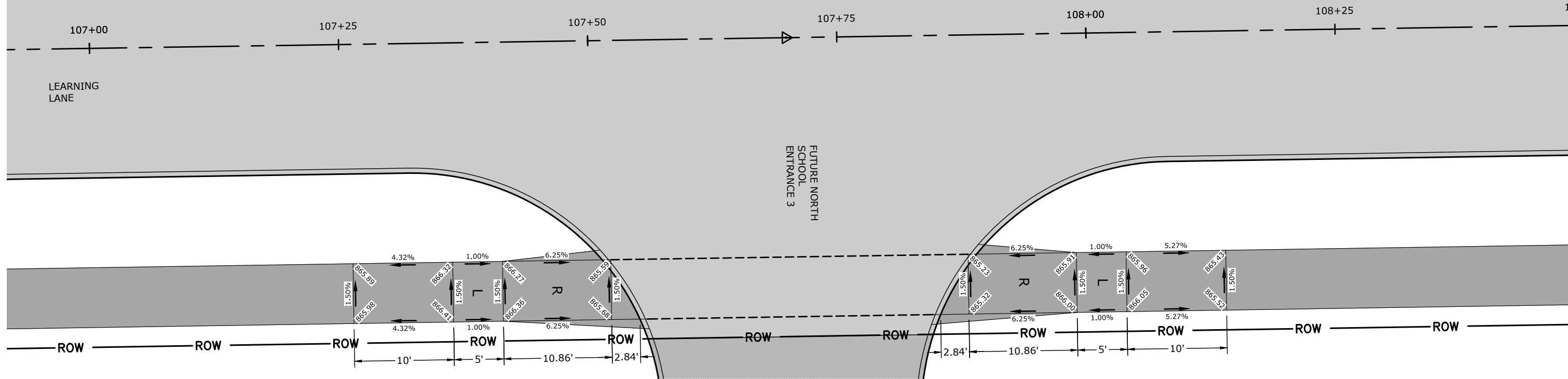
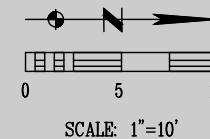
35TH AVENUE AND LEARNING LANE
PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SIDEWALK RAMP DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
S.04

CAD File: I:\projects\10500\10525-1 35th Ave\DWG\POI\35th Ave\5 - SIDEWALK.dwg Date Plotted: Wednesday, May 15, 2019 11:43:59 AM Plotted By: Kelda Hankins

PCC PAVEMENT
 PCC SIDEWALK



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FIELD BOOK: ---	NO.	REVISION DESCRIPTION	APPROVED	DATE

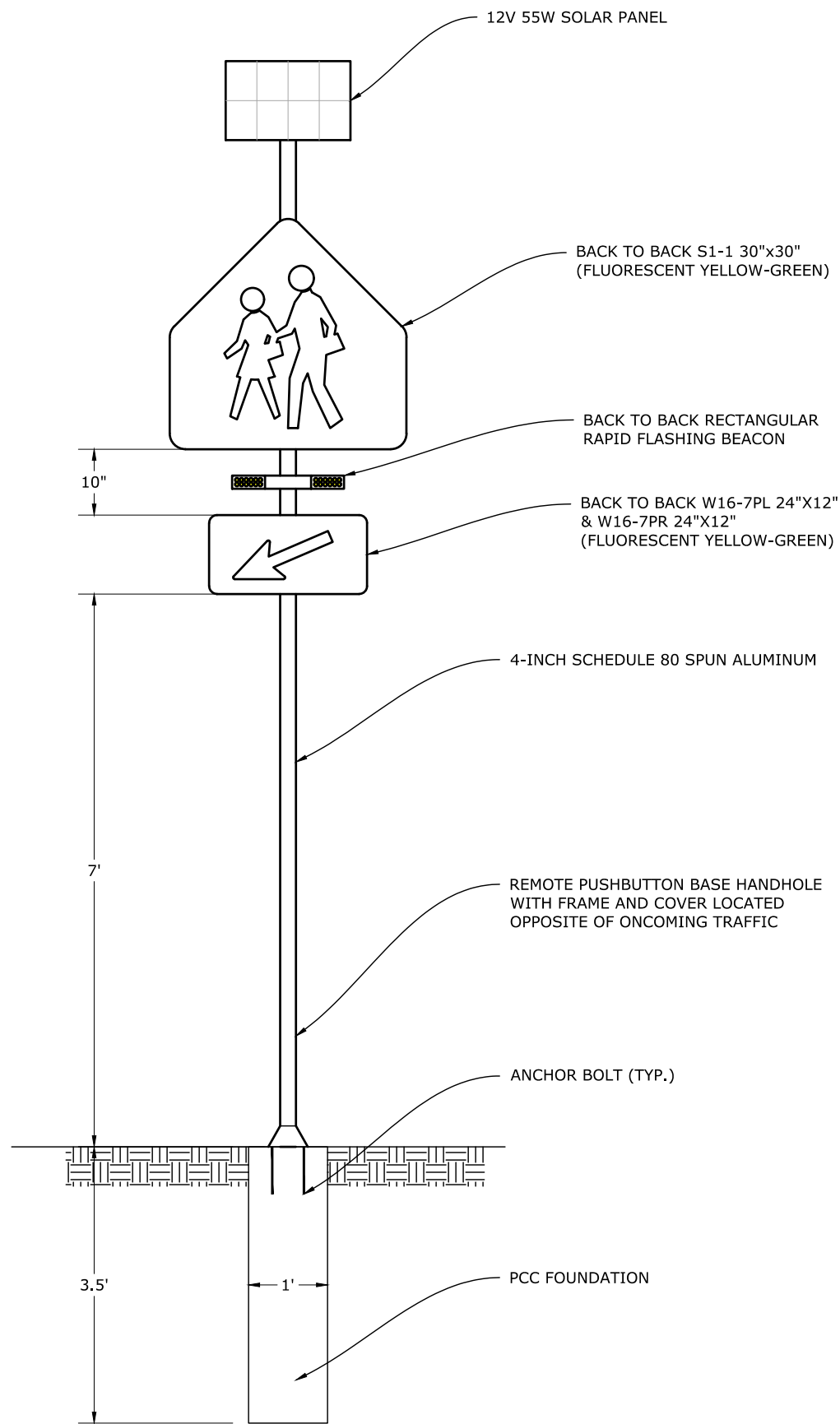


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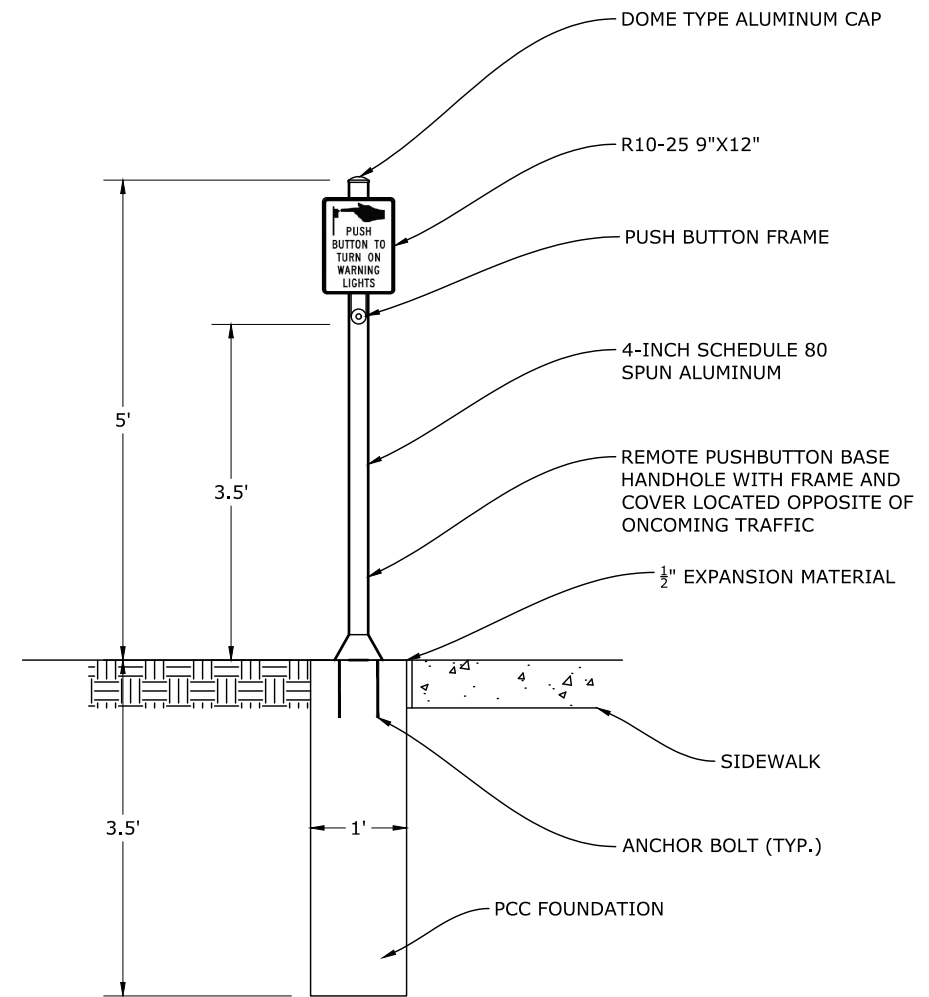
SIDEWALK RAMP DETAILS
 SCALE: 1" = 10'
 PROJECT NO: 10525-1

SHEET
S.05



FLASHING PEDESTRIAN SIGN ASSEMBLY

- NOTES:
1. PEDESTRIAN PUSHBUTTONS SHALL ADHERE TO ALL AMERICANS WITH DISABILITIES ACT (ADA) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REQUIREMENTS.
 2. FURNISH AND INSTALL WIRELESS INTERCONNECTIVITY BETWEEN SIGN ASSEMBLY AND PUSHBUTTONS.



PEDESTRIAN PUSHBUTTON PEDESTAL

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35TH AVENUE AND LEARNING LANE
 PCC PAVING
 IN THE CITY OF MARION, LINN COUNTY, IOWA

SPECIAL DETAIL - PEDESTRIAN BEACON
 AND PEDESTAL
 SCALE: NO SCALE PROJECT NO: 10525-1

SHEET
 U.01