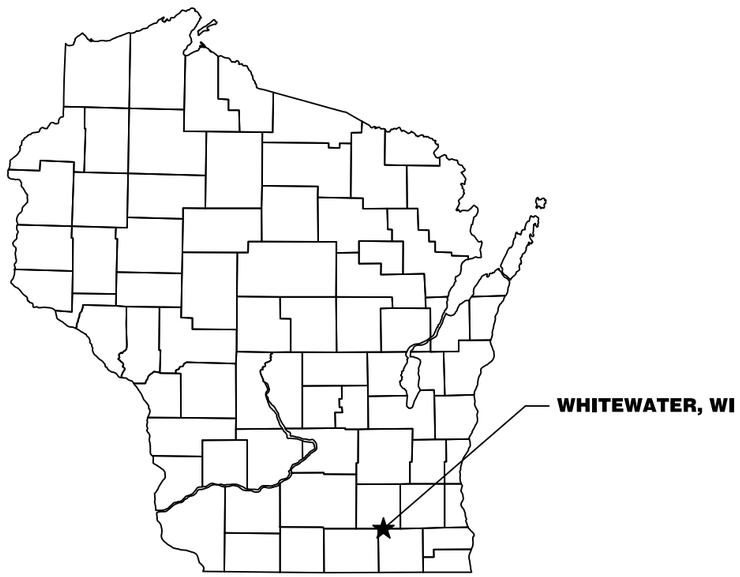
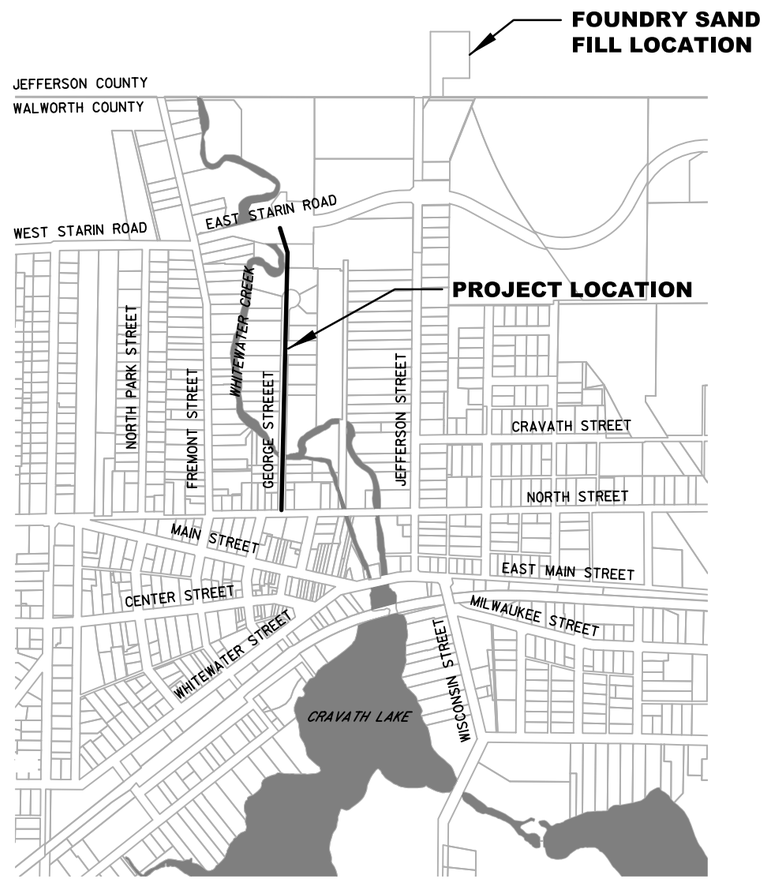
GEORGE STREET RECONSTRUCTION

FOR THE

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN
DECEMBER, 2015



PROJECT LOCATION MAP
NO SCALE



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Strand Associates, Inc.
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CONTRACT NO. 1-2016

PROJECT LOCATION MAP

NO SCALE

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SHEET 1
JOB NO. 1407.079

SURVEY BENCHMARKS

BM NO	DESCRIPTION	ELEV.
BM-1	FIRE HYDRANT TOP NUT; LOCATED ON THE NORTHWEST CORNER OF THE NORTH STREET AND GEORGE STREET INTERSECTION.	819.71
BM-2	ALUMINUM DISC ON SOUTHEAST PARAPET WALL ON GEORGE STREET BRIDGE.	807.64
BM-3	FIRE HYDRANT ARROW BOLT; LOCATED ON THE EAST SIDE OF GEORGE STREET NEAR THE #239 GEORGE STREET RESIDENCE.	804.97
BM-4	FIRE HYDRANT ARROW BOLT; LOCATED ON THE EAST SIDE OF THE ASPHALT BIKE PATH APPROX. 200 FEET NORTH OF GEORGE STREET CUL-DE-SAC.	802.32
BM-5	FIRE HYDRANT TOP NUT; LOCATED ON THE SOUTH SIDE OF STARIN ROAD DIRECTLY ACROSS THE STREET FROM PUBLIC WORKS FACILITY.	805.80

STANDARD SYMBOLS

- PROPERTY LINE AND/OR RIGHT OF WAY
- TEMPORARY EASEMENT
- PERMANENT EASEMENT ON SEWER
- SECTION CORNER
- IP — IRON PIPE
- PROPERTY IRON
- MWEL — MONITORING WELL
- BORE — SOIL BORING
- BENCH MARK
- BURIED TELEPHONE CABLE PEDESTAL
- EXISTING UTILITY POLE
- LIGHT POLE
- TELEPHONE POLE
- PROPANE TANK
- MAIL BOX
- SIGN
- OBJECTS TO BE REMOVED
- CONIFEROUS TREE
- DECIDUOUS TREE
- STUMP
- BUSH
- WETLAND
- PAVED ROAD
- SS — EXISTING CULVERT
- EXISTING CULVERT IN PROFILE
- ORIGINAL GROUND IN PROFILE
- 740 — EXISTING CONTOUR
- FENCE
- GUARD RAIL
- SILT FENCE
- CONTROL POINT
- GUY — GUY WIRE
- INLET
- INLET SQUARE
- CATCH BASIN
- MH — MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE
- CURB WATER BOX
- SEPC — SEPTIC
- SEPV — SEPTIC VENT
- WELL — WELL
- CAUTION — NOTATION FOR COMBUSTIBLE FLUIDS
- 6" — NEW WATER MAIN AND FIRE HYDRANT WITH AUXILIARY VALVE
- 6" SAN — NEW SANITARY SEWER AND MANHOLE
- 6" SAN — EXISTING SANITARY SEWER AND MANHOLE
- SAN — WYE BRANCH
- CASING PIPE
- FO — FIBER OPTIC
- SS — STORM SEWER
- SAN — SANITARY SEWER
- F — FORCE MAIN
- E — ELECTRIC DUCT
- STM — STEAM PIPING
- CWR — CILLED WATER RETURN
- CWS — CHILLED WATER SUPPLY
- TV — TV CABLE
- T — TELEPHONE
- 2" G — GAS MAIN
- E — UNDERGROUND ELECTRIC CABLE

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STORM SEWER INLET TABLE

STORM SEWER INLET TABLE

STRUCTURE	SIZE	STATION	OFFSET	BOC ELEVATION	INVERT	DOWNSTREAM SIZE (IN)	LENGTH (FT)	DOWNSTREAM SLOPE
I-1.1	2'X3' BOX	14+06.6	13.5' LT	807.70	803.97	12	14	0.5%
I-1.2	2'X3' BOX	14+06.6	13.5' RT	807.69	804.16	12	25	0.75%
I-2.1	2'X3' BOX	16+25.0	13.5' RT	802.02	798.31	18	87	0.2%
I-2.2	2'X3' BOX	16+25.0	13.5' LT	802.02	798.44	12	25	0.5%
I-3.1	2'X3' BOX	17+15.0	13.5' RT	802.06	798.49	15	90	0.2%
I-3.2	2'X3' BOX	17+15.0	13.5' LT	802.06	798.59	12	25	0.5%
I-4.1	2'X3' BOX	23+80.0	13.5' RT	803.24	799.39	12	10	3.8%
I-4.2	2'X3' BOX	23+80.0	13.5' LT	803.24	799.52	12	10	3.8%
I-4.3	2'X3' BOX	23+90.0	13.5' LT	803.20	799.14	15	26	0.5%

1. OFFSET IS TO BACK OF CURB FOR STRUCTURES IN CURB LINE.
2. FOR STRUCTURES ON THE PLAN AND PROFILE SHEETS (NOT IN THE THE STRUCTURE TABLE) OFFSETS ARE TO THE CENTER OF STRUCTURE (NOT BACK OF CURB).
3. ALL STORM SEWER INLETS/INLET MANHOLES SHALL BE PROVIDED WITH 24-INCH DEEP SUMPS.
4. PROVIDE UNDERDRAIN CONNECTIONS TO LOW POINT INLETS.

NO.	REVISIONS	DATE:

STANDARD NOTES AND SYMBOLS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO.
1407.079

PROJECT MGR.
MAF

STRAND ASSOCIATES®

SHEET
2

EROSION CONTROL FLOW NOTES:

1. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. DISTURBED AREAS OF STREAM SHALL BE TEMPORARY SEEDED WITHIN 1 DAY OF DISTURBANCE.

2. A MINIMUM OF 6 INCHES OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDED.

3. ALL MULCH SHALL BE ANCHORED (CRIMPED) IN PLACE.

4. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.

5. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.

6. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE WORK REDONE.

8. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. TEMPORARY STABILIZATION AFTER OCTOBER 1, SHALL INCLUDE USE OF TYPE B SOIL STABILIZER IN ACCORDANCE WITH DNR CONSERVATION STANDARD, CODE 1050.

8. ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE DNR.

9. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS, LATEST EDITION.

12. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE PER WEEK AND BEFORE ALL IMMINENT RAINS.

13. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY, WITHIN 24 HOURS OF RAINFALL OF 0.5 INCH OR MORE, AND BEFORE IMMINENT/FORECASTED PRECIPITATION.

14. WHERE POSSIBLE CONTRACTOR SHALL PLACE ACTIVE/TEMPORARY SPOIL PILES UPSTREAM OF EXCAVATED TRENCHES.

15. DISTURBED DITCH AREAS AND AREAS WITH SIDE SLOPES STEEPER THAN 4:1 REQUIRE E-MAT (TYPE 1, CLASS B). UNLESS OTHERWISE NOTED.

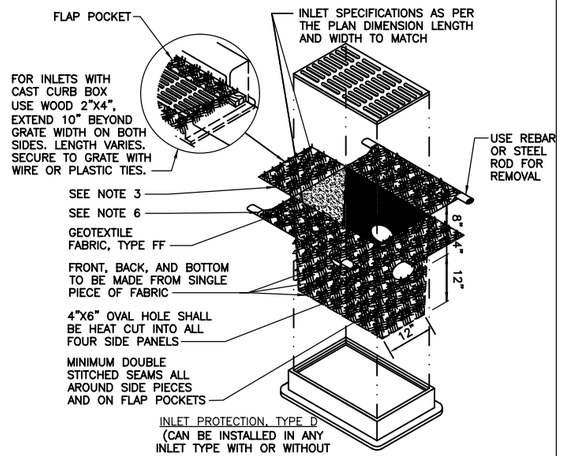
GENERAL NOTES:

1. CONTRACTOR SHALL REVIEW EROSION CONTROL PLAN AND SUPPLEMENT IT WITH ADDITIONAL EROSION CONTROL PROVISIONS AND BEST MANAGEMENT PRACTICES AS NECESSARY.

2. DNR TECHNICAL STANDARDS SHALL BE REVIEWED AND FOLLOWED FOR EROSION CONTROL PRACTICES SUCH AS DUST CONTROL (WDNR TECHNICAL STANDARD 1068), DEWATERING (WDNR TECHNICAL STANDARD 1061), MULCHING (DNR TECHNICAL STANDARD 1058), OR OTHER STANDARD PRACTICES AS NEEDED.

3. STONE TRACKING PADS SHALL BE THE FULL WIDTH OF THE EGRESS POINT, A MINIMUM OF 50-FEET LONG AND 12-INCH DEPTH (3-6" CLEAR STONE). STONE TRACKING PADS SHALL BE PLACED IN LOCATIONS AS REQUIRED. DNR TECHNICAL STANDARD 1057 SHALL BE FOLLOWED FOR THE MAINTENANCE OF THE STONE TRACKING PADS.

4. DISTURBED AREAS SHALL BE UNIFORMLY GRADED PRIOR TO RESTORATION (SEEDING, EROSION MAT PLACEMENT, AND/OR MULCHING).



INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

NOTES:
1. INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

2. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENTS EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

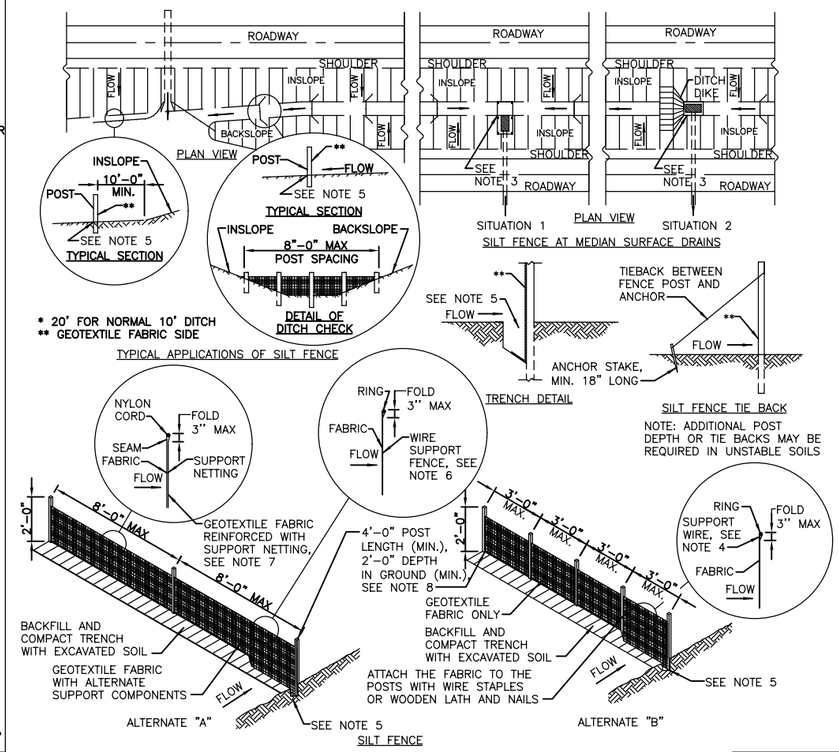
3. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET, ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

4. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

6. FOR TYPE D, DO NOT INSTALL INLET PROTECTION TYPE D INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION D (WDNR TECHNICAL STANDARD 1060)



NOTES:
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

2. WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

3. CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

4. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.

5. EXCAVATE TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.

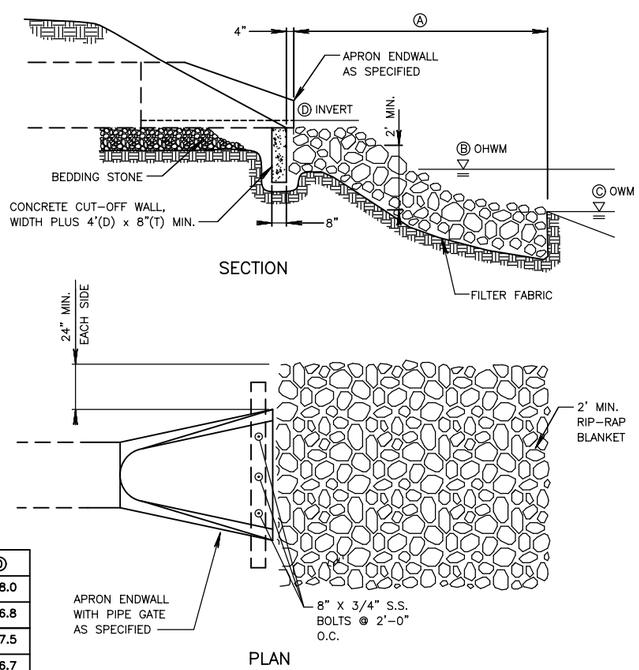
6. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.

7. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.

8. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.2 LBS/LINEAR FOOT WITHOUT ANCHORS, OR ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIAMETER, OR 2 1/2" X 3 1/2", EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OAK OR HICKORY.

9. ALTERNATES A AND B ARE EQUAL AND EITHER MAY BE USED.

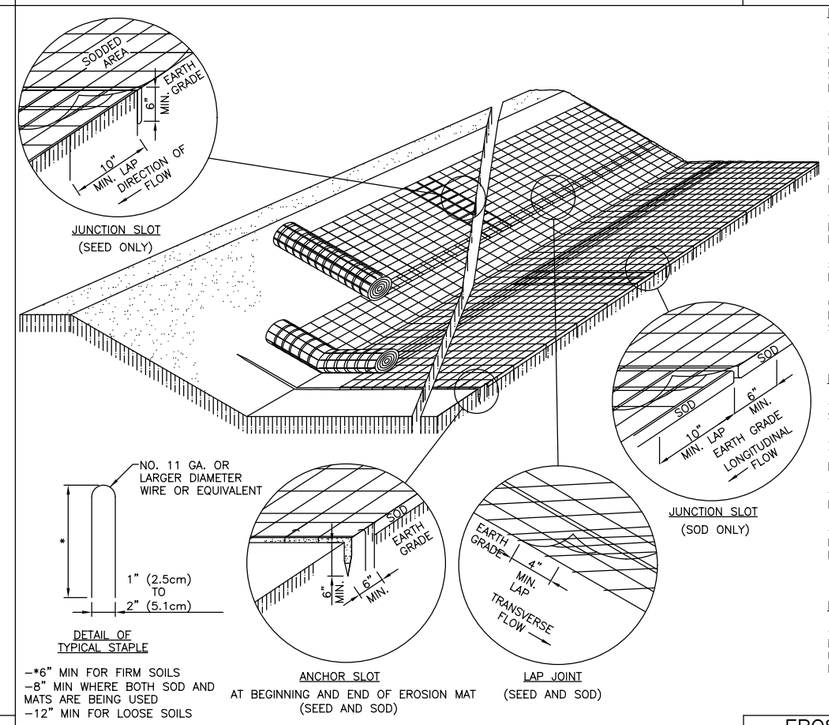
SILT FENCE (WDNR TECHNICAL STANDARD 1056)



INTAKE/OUTFALL LOCATIONS

BODY OF WATER	SIZE	STATION/OFFSET	Ⓐ	Ⓑ	Ⓒ	Ⓓ
WHITEWATER CREEK	18"	14+88.1/42.6'LT	5'	798.0	797.4	798.0
WHITEWATER CREEK	18"	26+80.2/25.5'LT	5'	796.2	795.7	796.8
UNNAMED DITCH	18"	27+69.7/19.3'RT	5'	796.1	795.7	797.5
UNNAMED DITCH	18"	27+73.7/20.0'LT	5'	796.1	795.7	796.7

STORM SEWER APRON ENDWALL



NOTES:
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

2. VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH.

3. LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

4. JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.

5. EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

6. EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

EROSION MAT OVER SOD

- ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.

- FLOOD STAKES FOR SOD MAY BE OMITTED IF THE EXISTING SLOPE AND SOIL CONDITIONS SO PERMIT.

- THE WIDTH OF EROSION MAT SHALL ALWAYS EQUAL THE SOD WIDTH.

- SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

EROSION MAT OVER SEEDING

- JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.

EROSION CONTROL MAT INSTALLATION (WDNR TECHNICAL STANDARD 1052)

NO.	REVISIONS	DATE:

EROSION CONTROL DETAILS

GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079
PROJECT MGR. MAF

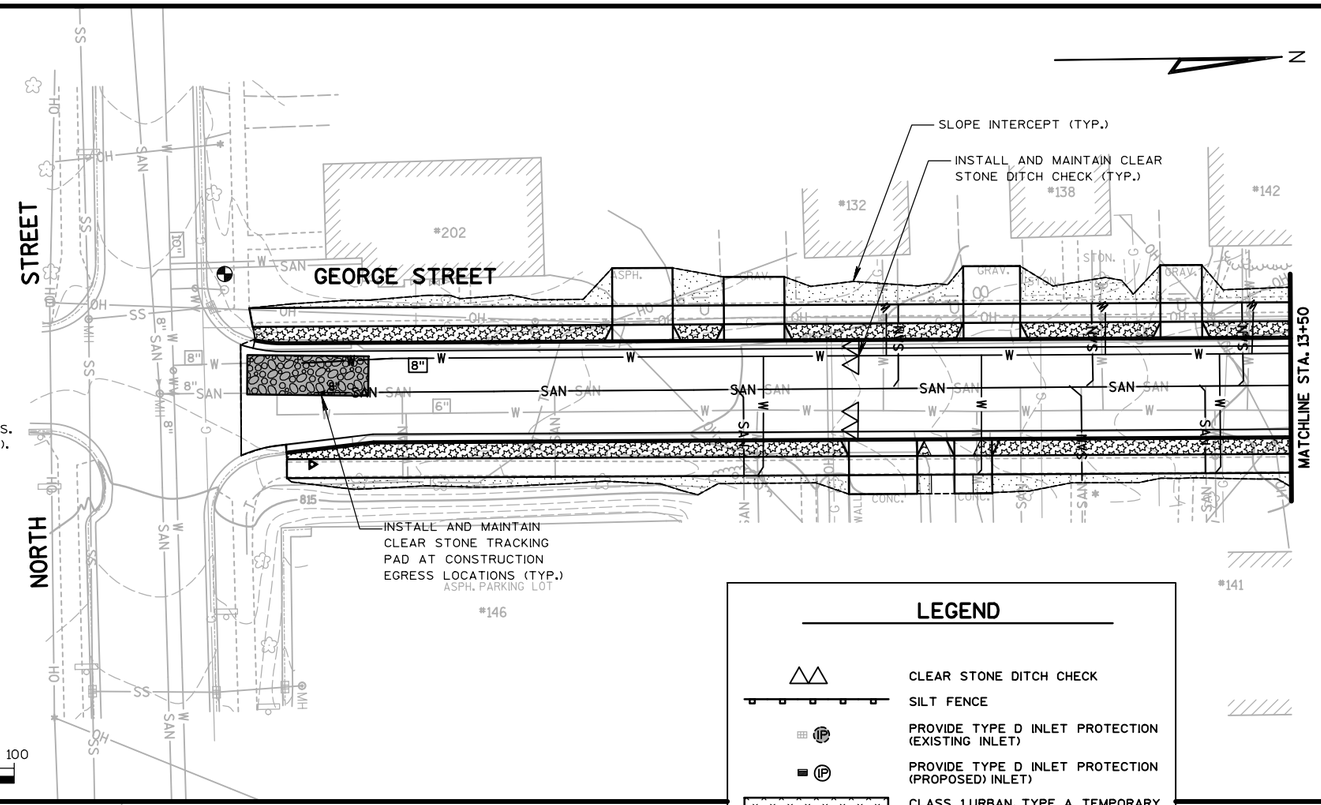
STRAND ASSOCIATES®

SHEET 3

EROSION CONTROL NOTES:

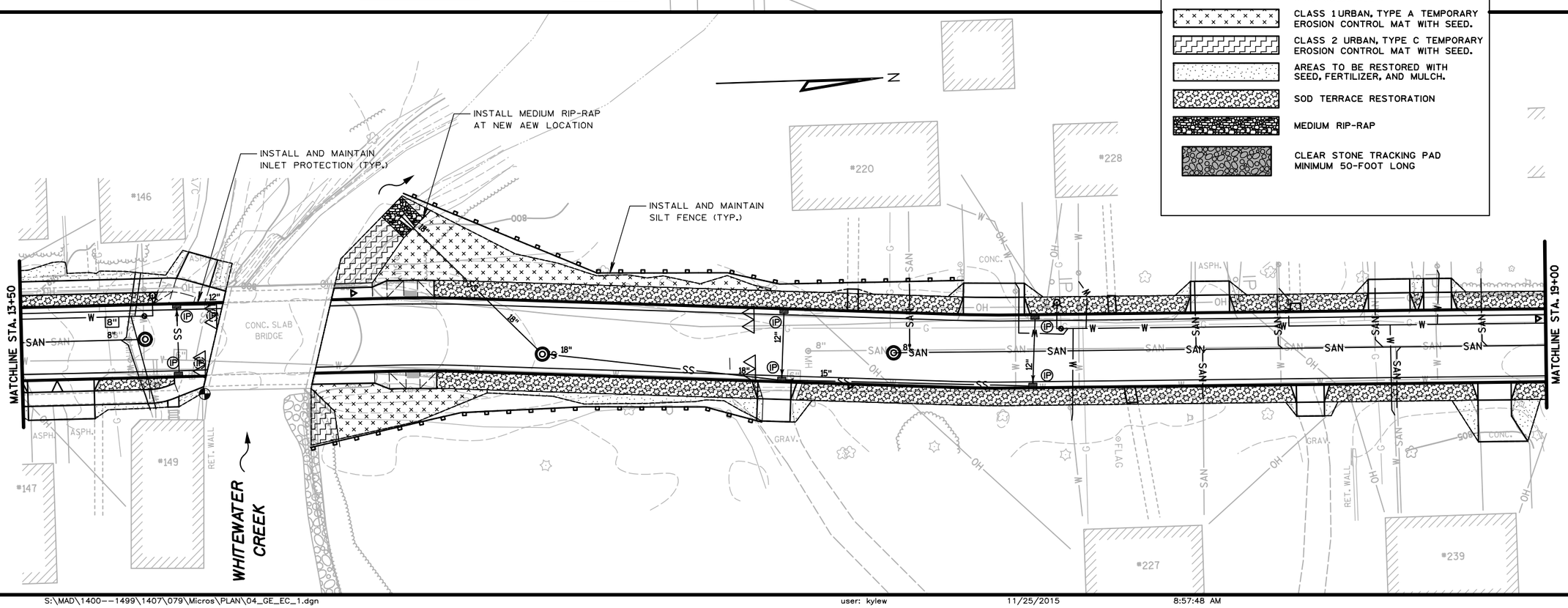
1. THESE EROSION CONTROL DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. ANY PROPOSED CHANGES TO THESE DRAWINGS SHALL BE SUBMITTED TO WDNR (ATTN: MAUREEN MCBROOM) FOR REVIEW AT LEAST 5 WORKING DAYS PRIOR TO FIELD IMPLEMENTATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AN EROSION CONTROL IMPLEMENTATION PLAN FOR THE OVERALL CONSTRUCTION SITE. ECIP SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. ALL EROSION CONTROL PROVISIONS SHALL COMPLY WITH DNR TECHNICAL STANDARDS.
3. FOR ALL DEWATERING OPERATIONS, CONTRACTOR SHALL COMPLY WITH WDNR TECHNICAL STANDARD 1061. AT A MINIMUM, DEWATERING SYSTEM SHALL CONSIST OF A PORTABLE SEDIMENTATION TANK FOLLOWED BY GEOTEXTILE BAGS. GEOTEXTILE BAGS SHALL BE LINED WITH STRAW/HAY BALES. SUPPLEMENT DEWATERING SYSTEM WITH POLYMER IF NECESSARY. DISCHARGE FROM GEOTEXTILE BAGS SHALL BE ONTO ESTABLISHED TURF (VEGETATED BUFFER) AREA PRIOR TO DEWATERING THE STREAM. IN GENERAL, DEWATERING SYSTEM COMPONENTS SHOULD BE LOCATED ON CITY-OWNED PARK LAND NORTH OF NORTH STREET. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WDNR APPROVAL OF DEWATERING SYSTEM.
4. PLACE CLEAR STONE CHECK DAM IN EXISTING DITCH LINE AT APPROXIMATELY 50-FT INTERVALS AFTER ANY LAND DISTURBANCE. CHECK DAMS SHALL BE APPROXIMATELY 9-INCHES IN HEIGHT AND 12-FT IN LENGTH.
5. THE ANTICIPATED CONSTRUCITON SEQUENCE IS AS FOLLOWS:
   - A. IMPLEMENT AND MAINTAIN EROSION CONTROL PROVISIONS.
   - B. IMPLEMENT AND MAINTAIN TRAFFIC CONTROL AS DESCRIBED IN TRAFFIC CONTROL SECTION.
   - C. CONSTRUCT SANITARY SEWER FROM EXISTING INTERCEPTOR MANHOLE TO MANHOLE 4. STABILIZE DISTURBED AREAS.
   - D. CONSTRUCT WATER MAIN FROM STARIN ROAD TO STATION 24+50 (GEORGE STREET CUL-DE-SAC). STABILIZE DISTURBED AREAS.
   - E. CONSTRUCT STORM SEWER BETWEEN WHITEWATER CREEK AND APPROXIMATELY STATION 24+75 (GEORGE STREET CUL-DE-SAC). STABILIZE DISTURBED AREA INCLUDING OUTFALL TO CREEK.
   - F. CONSTRUCT PATH CULVERT LOCATED AT STATION 27+75. STABILIZE DISTURBED AREA.
   - G. CONSTRUCT TEMPORARY GRAVEL ACCESS BETWEEN STARIN ROAD AND THE GEORGE STREET CUL-DE-SAC. STABILIZE DISTURBED AREAS.
   - H. IMPLEMENT AND MAINTAIN TRAFFIC CONTROL AS DESCRIBED IN TRAFFIC CONTROL SECTION.
   - I. CONSTRUCT SANITARY SEWER ON GEORGE STREET FROM MANHOLE 4 TO MANHOLE 2.
   - J. CONSTRUCT WATER MAIN ON GEORGE STREET FROM CUL-DE-SAC TO APPROXIMATELY STATION 17+10.
   - K. CONSTRUCT REMAINING STORM SEWER IN GEORGE STREET CUL-DE-SAC AREA.
   - L. CONSTRUCT SANITARY SEWER ON GEORGE STREET FROM NORTH STREET TO BRIDGE.
   - M. CONSTRUCT WATER MAIN ON GEORGE STREET FROM NORTH STREET TO BRIDGE.
   - N. CONSTRUCT STORM SEWER ON GEORGE STREET SOUTH OF BRIDGE.
   - O. CONSTRUCT STREET IMPROVEMENTS INCLUDING COMMON EXCAVATION, GRADING, BASE COURSE PLACEMENT, CURB AND GUTER, DRIVEWAYS, SIDEWALK, AND PLACEMENT OF BINDER COURSE PAVEMENT.
   - P. REMOVE TEMPORARY GRAVEL ACCESS (CUL-DE-SAC TO STARIN ROAD).
   - Q. CONSTRUCT PATH FROM CUL-DE-SAC TO STARIN ROAD INCLUDING COMMON EXCAVATION, GRADING, BASE COURSE REPLACEMENT, AND ASPHALT PAVING.
   - R. RESTORE AND STABILIZE ALL DISTURBED AREAS INCLUDING FINAL TERRACE RESTORATION.
   - S. PLACE SURFACE COURSE PAVEMENT.
   - T. COMPLETE ALL REMAINING MISCELLANEOUS WORK.
   - U. REMOVE ALL TRAFFIC CONTROL PROVISIONS.
   - V. REMOVE ALL EROSION CONTROL PROVISIONS.

0 FEET 50 100



LEGEND

- CLEAR STONE DITCH CHECK
- SILT FENCE
- PROVIDE TYPE D INLET PROTECTION (EXISTING INLET)
- PROVIDE TYPE D INLET PROTECTION (PROPOSED) INLET)
- CLASS 1 URBAN, TYPE A TEMPORARY EROSION CONTROL MAT WITH SEED.
- CLASS 2 URBAN, TYPE C TEMPORARY EROSION CONTROL MAT WITH SEED.
- AREAS TO BE RESTORED WITH SEED, FERTILIZER, AND MULCH.
- SOD TERRACE RESTORATION
- MEDIUM RIP-RAP
- CLEAR STONE TRACKING PAD MINIMUM 50-FOOT LONG



NO.	REVISIONS	DATE:

EROSION CONTROL AND SITE RESTORATION PLAN

GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079
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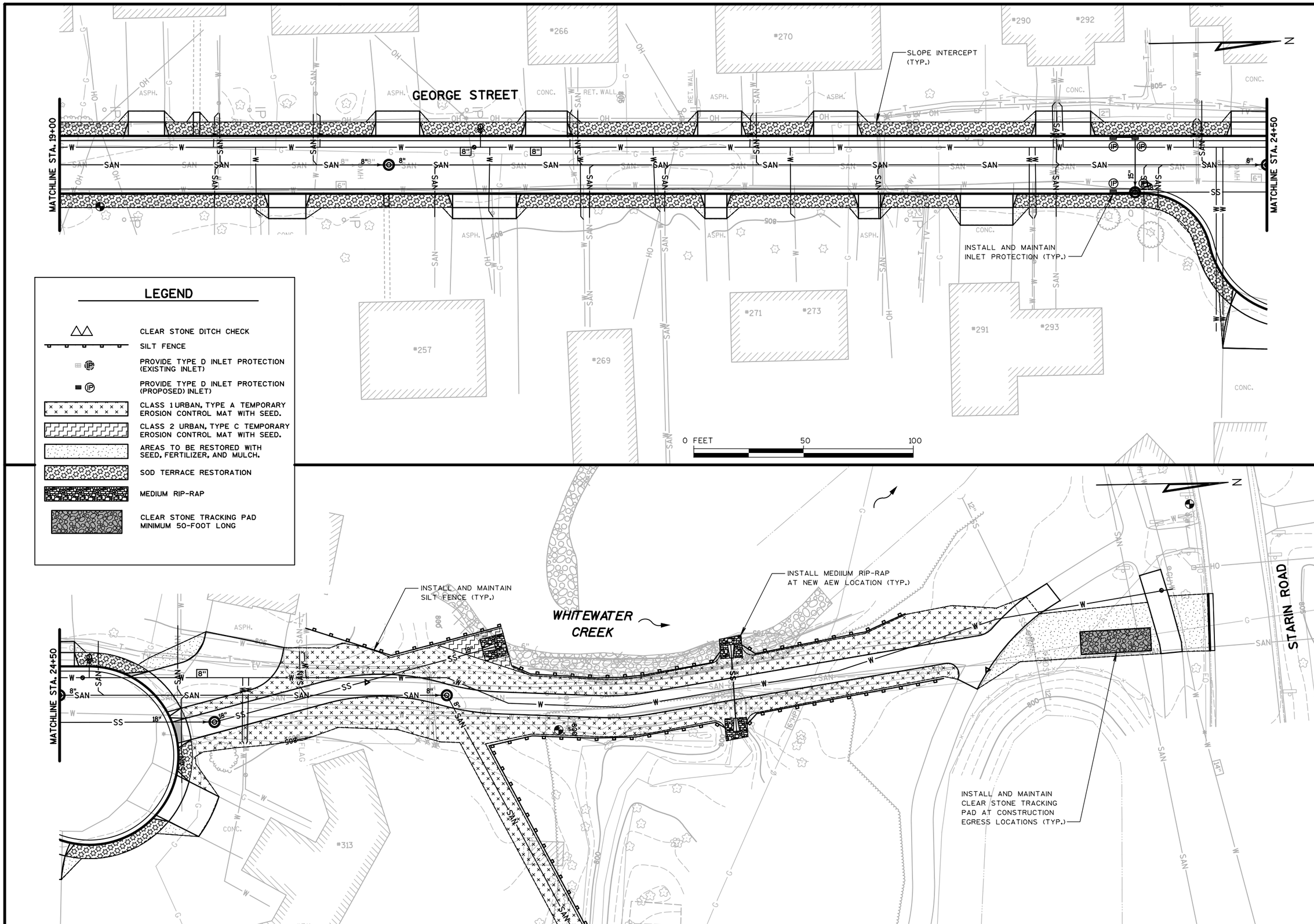
SHEET 4



LEGEND

- CLEAR STONE DITCH CHECK
- SILT FENCE
- PROVIDE TYPE D INLET PROTECTION (EXISTING INLET)
- PROVIDE TYPE D INLET PROTECTION (PROPOSED) INLET)
- CLASS 1 URBAN, TYPE A TEMPORARY EROSION CONTROL MAT WITH SEED.
- CLASS 2 URBAN, TYPE C TEMPORARY EROSION CONTROL MAT WITH SEED.
- AREAS TO BE RESTORED WITH SEED, FERTILIZER, AND MULCH.
- SOD TERRACE RESTORATION
- MEDIUM RIP-RAP
- CLEAR STONE TRACKING PAD MINIMUM 50-FOOT LONG

NO.	REVISIONS	DATE:

EROSION CONTROL AND SITE RESTORATION PLAN

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO.
1407.079

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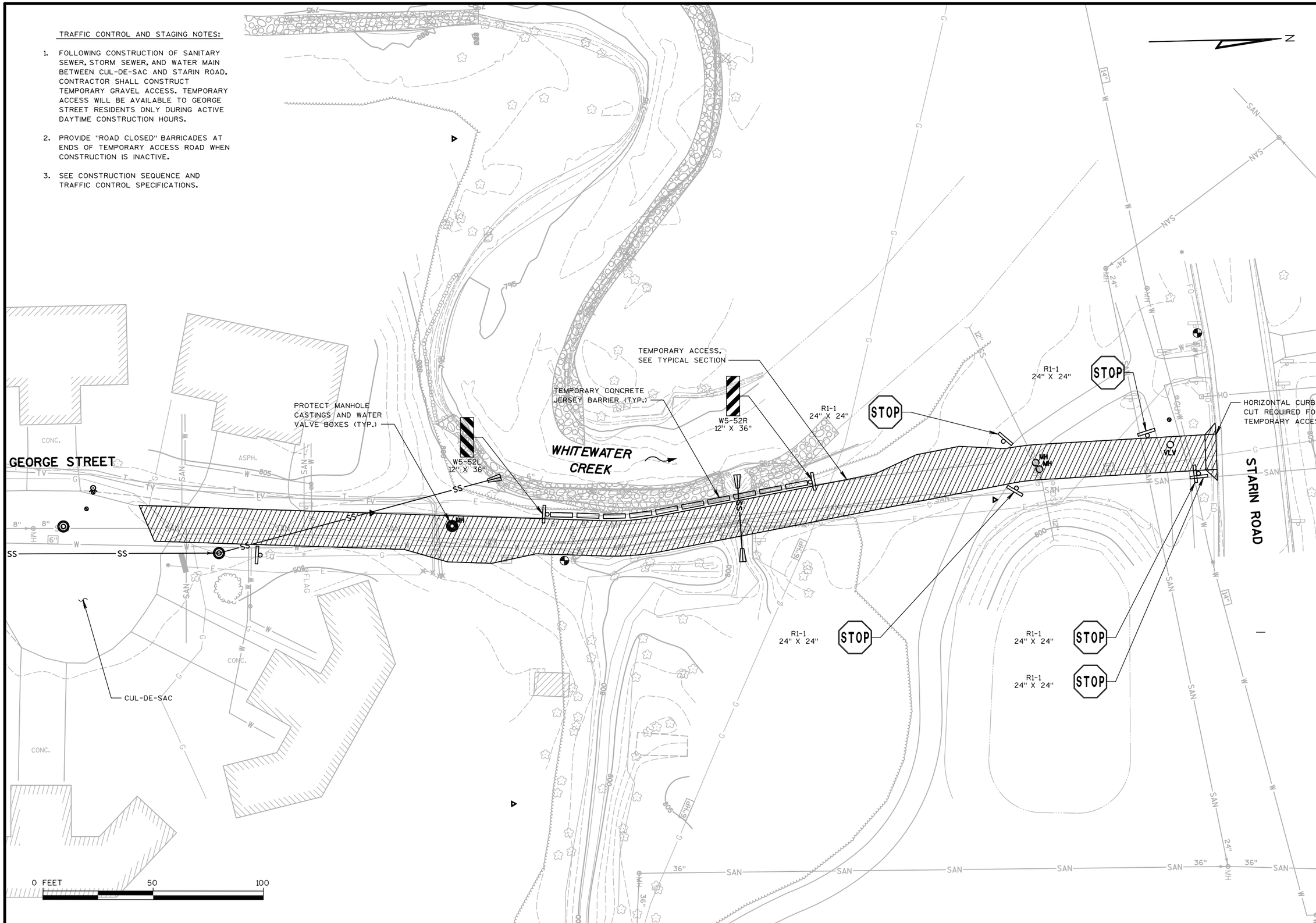
5

TRAFFIC CONTROL AND STAGING NOTES:

1. FOLLOWING CONSTRUCTION OF SANITARY SEWER, STORM SEWER, AND WATER MAIN BETWEEN CUL-DE-SAC AND STARIN ROAD, CONTRACTOR SHALL CONSTRUCT TEMPORARY GRAVEL ACCESS. TEMPORARY ACCESS WILL BE AVAILABLE TO GEORGE STREET RESIDENTS ONLY DURING ACTIVE DAYTIME CONSTRUCTION HOURS.
2. PROVIDE "ROAD CLOSED" BARRICADES AT ENDS OF TEMPORARY ACCESS ROAD WHEN CONSTRUCTION IS INACTIVE.
3. SEE CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL SPECIFICATIONS.



NO.	REVISIONS	DATE:

TRAFFIC CONTROL AND STAGING PLAN

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO.

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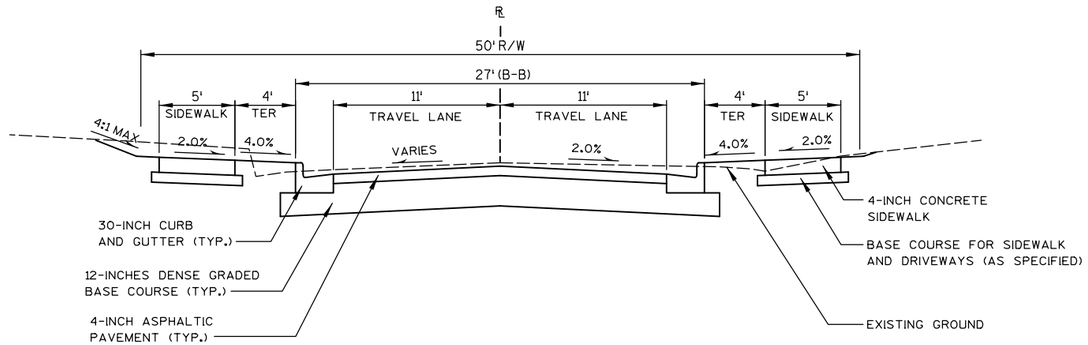
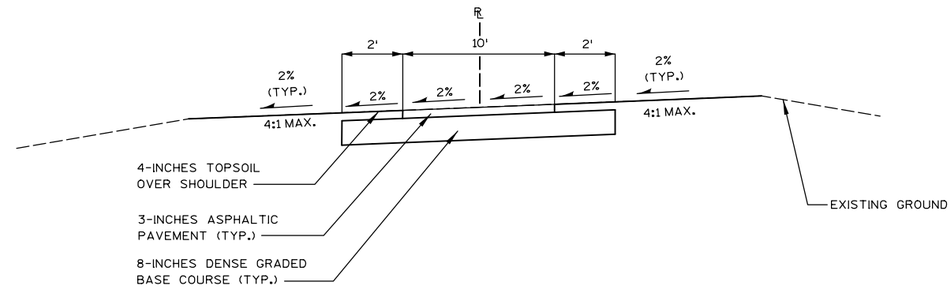
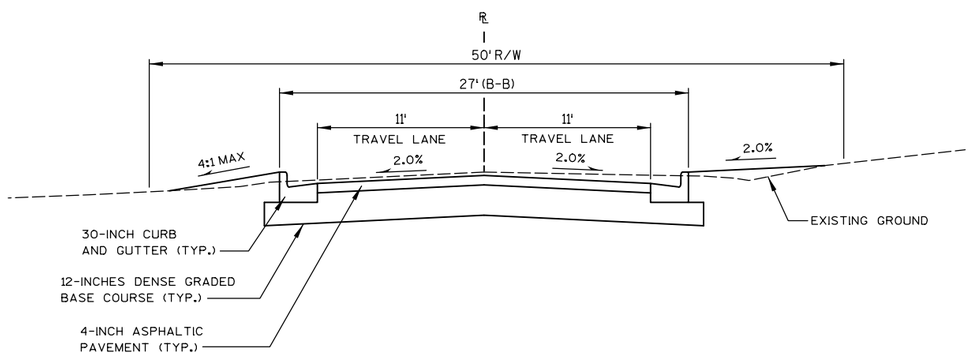


GEORGE STREET TYPICAL SECTION

STA. 10+75 TO 14+25

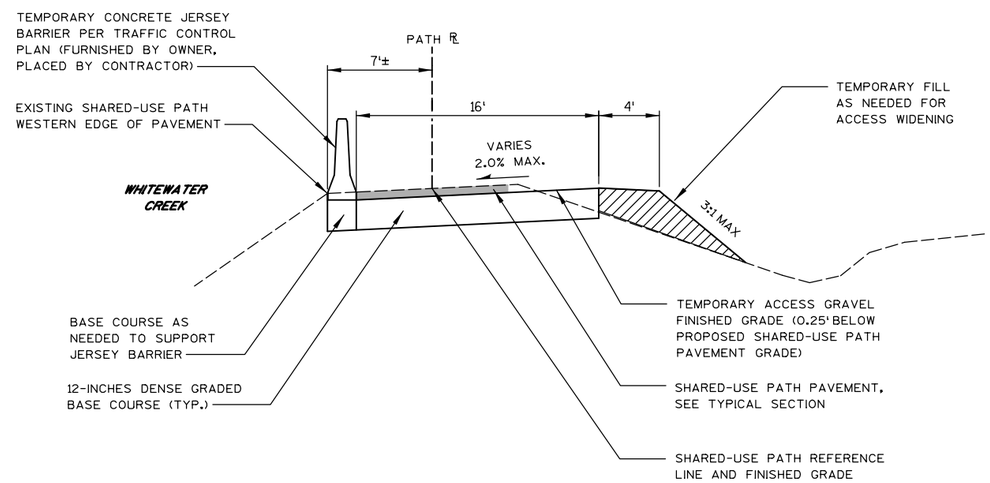


SHARED-USE PATH TYPICAL SECTION



GEORGE STREET TYPICAL SECTION

STA. 14+75 TO 24+00



TEMPORARY ACCESS
TYPICAL SECTION

NO.	REVISIONS	DATE:

TYPICAL SECTIONS

GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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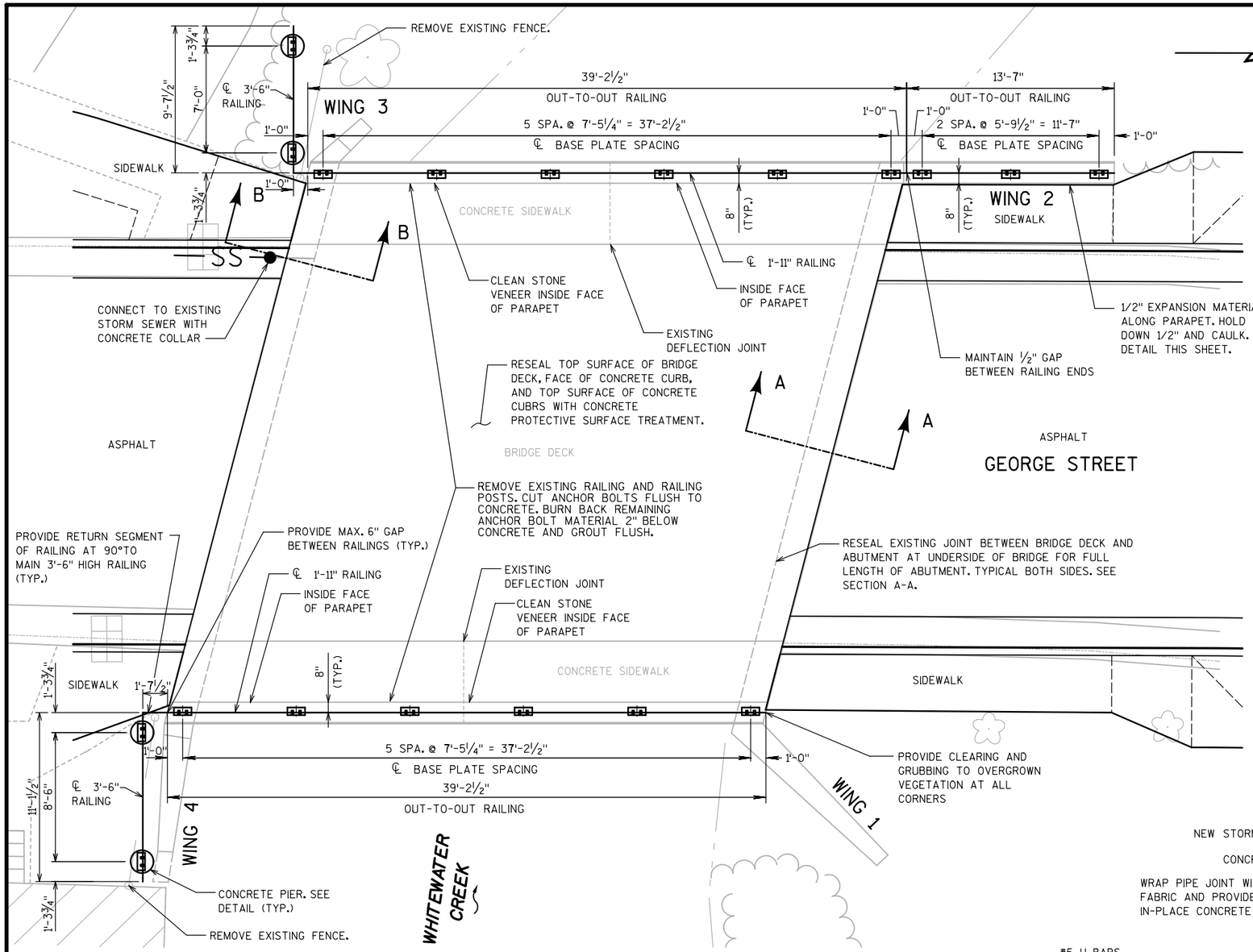
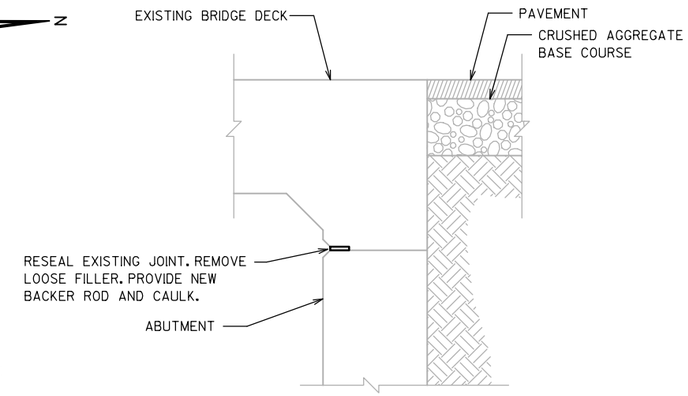
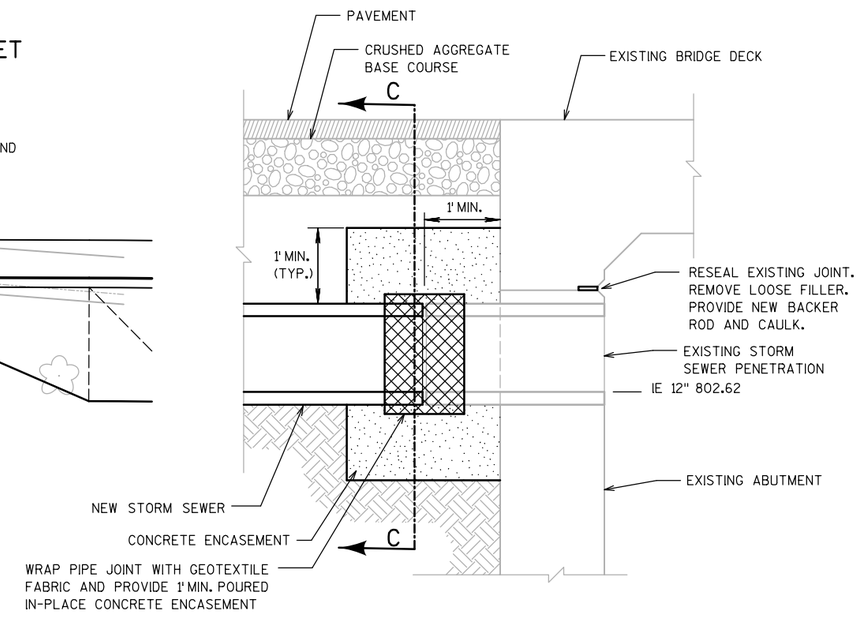


PLAN



SECTION A-A

NOT TO SCALE



SECTION B-B

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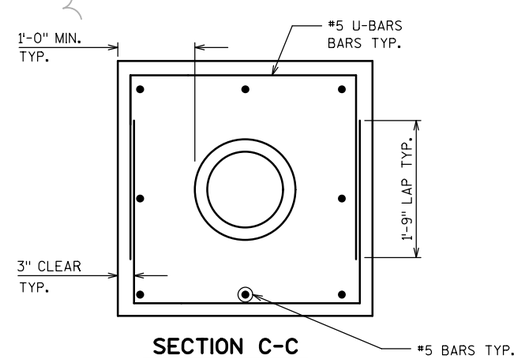

SECTION C-C

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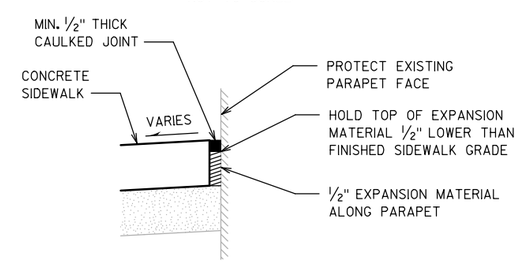

CAULKED EXPANSION JOINT

NOT TO SCALE

GENERAL NOTES

CONCRETE USED FOR PIPE COLLAR AND CONCRETE PIERS SHALL BE MINIMUM 4000 PSI STRENGTH AT 28 DAYS, SLUMP RANGE BETWEEN 2" AND 4", AND AIR ENTRAINMENT BETWEEN 4% AND 7%. ALL REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60.

PIPE COLLAR WORK SHALL BE INCIDENTAL TO STORM SEWER PIPE BID ITEM.

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO RAILING FABRICATION.

NEW CAULK SHALL BE NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

DRILLED CONCRETE PIERS ARE INCIDENTAL TO "RAILING STEEL TYPE C2 GALVANIZED B-64-66" BID ITEM.

FINAL LOCATION AND LAYOUT OF 3'-6" HIGH RAILINGS AND TOP OF CONCRETE ELEVATIONS OF CONCRETE PIERS AT SOUTH END OF BRIDGE SHALL BE COORDINATED WITH FIELD ENGINEER PRIOR TO FABRICATION OF RAILINGS OR PLACEMENT OF CONCRETE PIERS.

NO.	REVISIONS	DATE:

B-64-66 BRIDGE IMPROVEMENTS
PLAN AND SECTIONS
GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079
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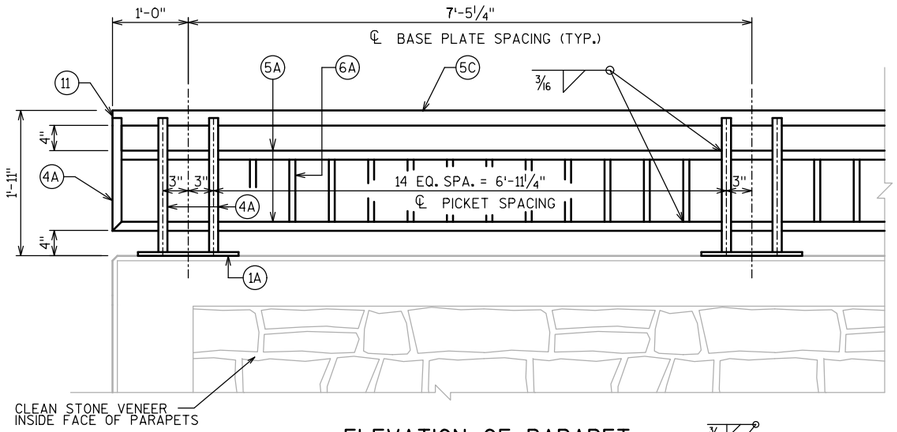
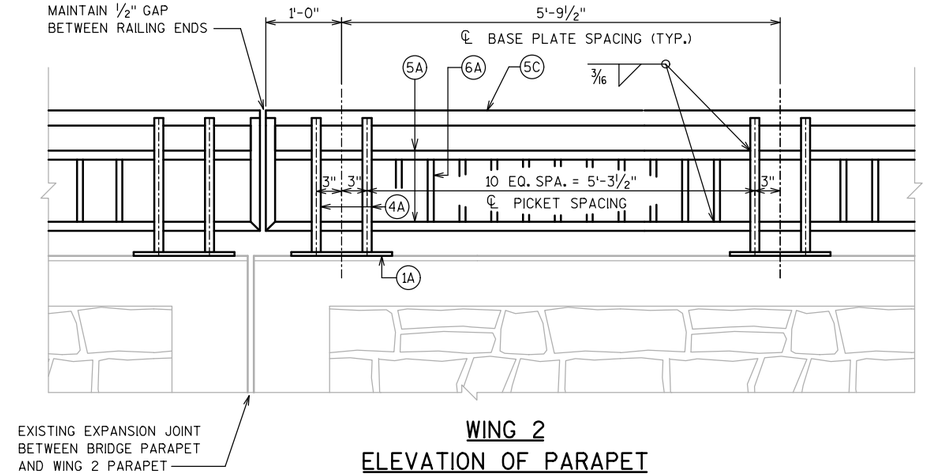
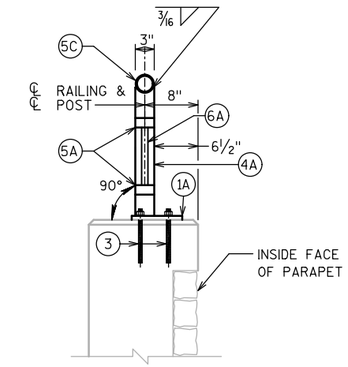
SHEET 8



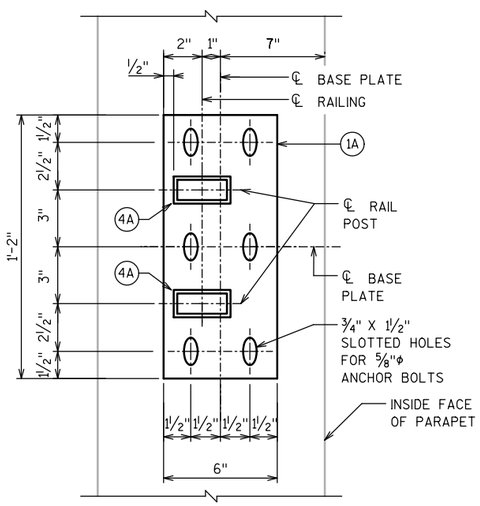
ELEVATION OF PARAPET



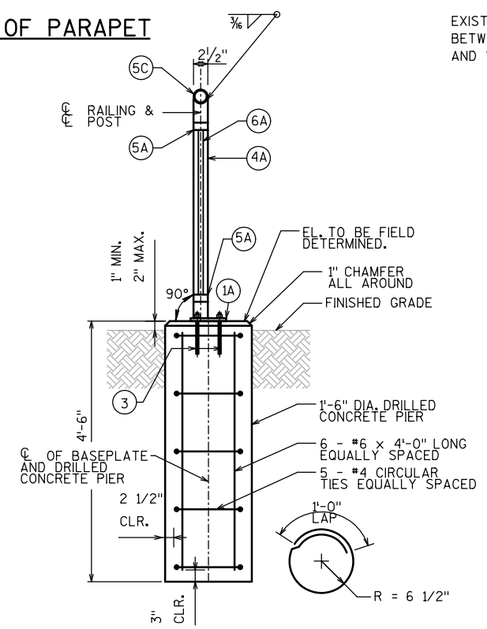
WING 2
ELEVATION OF PARAPET



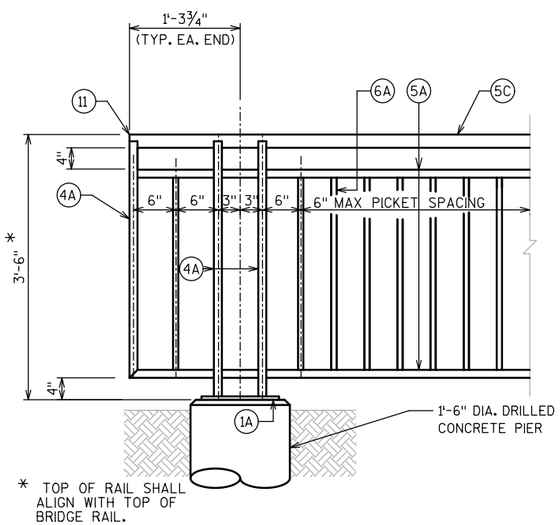
SECTION THRU
PARAPET



TYPICAL RAIL POST BASE PLATE



SECTION THRU CONCRETE PIER



* TOP OF RAIL SHALL ALIGN WITH TOP OF BRIDGE RAIL.

ELEVATION OF 3'-6" RAILING

LEGEND

(1A) PLATE ⅝" X 6" X 1'-2" WITH ¾" X 1½" SLOTTED HOLES.

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL CONCRETE MASONRY ANCHORS TYPE S. EMBED 7". PROVIDE NUT AND WASHERS OF SAME ALLOY GROUP. (MIN. TENSILE STRENGTH OF ANCHOR = 70 KSI)

(4A) STRUCTURAL TUBING 3" X 1½" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(5C) STRUCTURAL TUBING 2½" ϕ (STANDARD SIZE) (2.875" O.D.). WELD TO NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(9B) CIRCULAR SLEEVE FABRICATED FROM STRUCTURAL TUBING 2" ϕ (STANDARD SIZE) (2.375" O.D.)

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

(10B) CIRCULAR SLEEVE FABRICATED FROM STRUCTURAL TUBING 2" ϕ (STANDARD SIZE) (2.375" O.D.) (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

(11) END CAP FABRICATED FROM 3/16" PLATE. WELD ALL AROUND TO NO. 5.

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C2 GALVANIZED B-64-66", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN ON SHEETS 8 AND 9 AND DRILLED CONCRETE PIERS.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

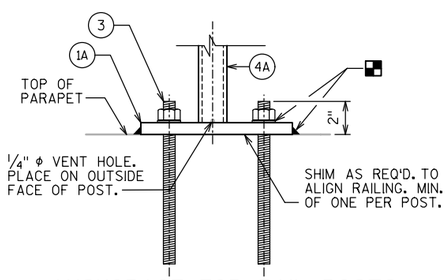
ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

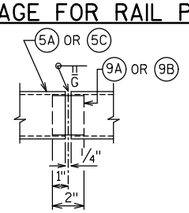
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE MINIMUM 3 PAIRS OF POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

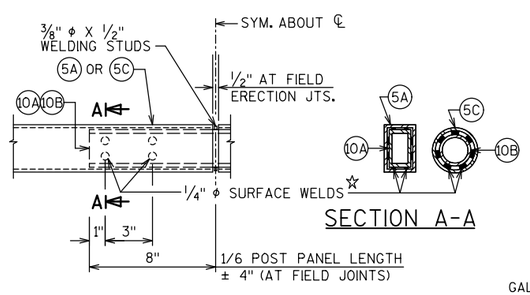
RAILING COLOR SHALL BE GREEN AND SHALL MATCH THE COLOR OF THE RAILING ON STRUCTURE C-64-20 OVER WHITEWATER CREEK IN DOWNTOWN WHITEWATER. PROVIDE COLOR SAMPLES TO OWNER FOR REVIEW PRIOR TO PAINTING.



ANCHORAGE FOR RAIL POSTS



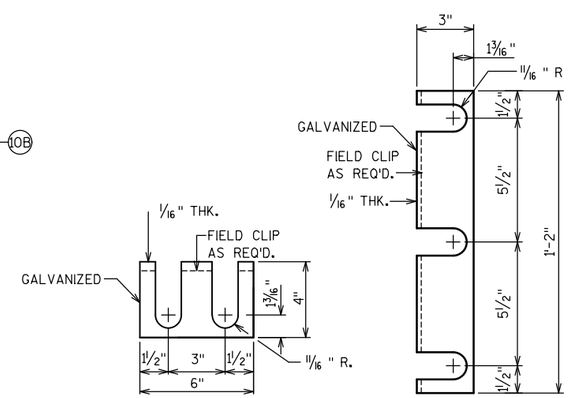
SHOP RAIL
SPLICE DETAIL
(LOCATION MUST BE
SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



RAIL POST SHIM DETAIL
(2 SETS PER POST)

NO.	REVISIONS	DATE:

B-64-66 BRIDGE IMPROVEMENTS
RAILING TYPE C2 SECTIONS AND DETAILS
GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO.
1407.079

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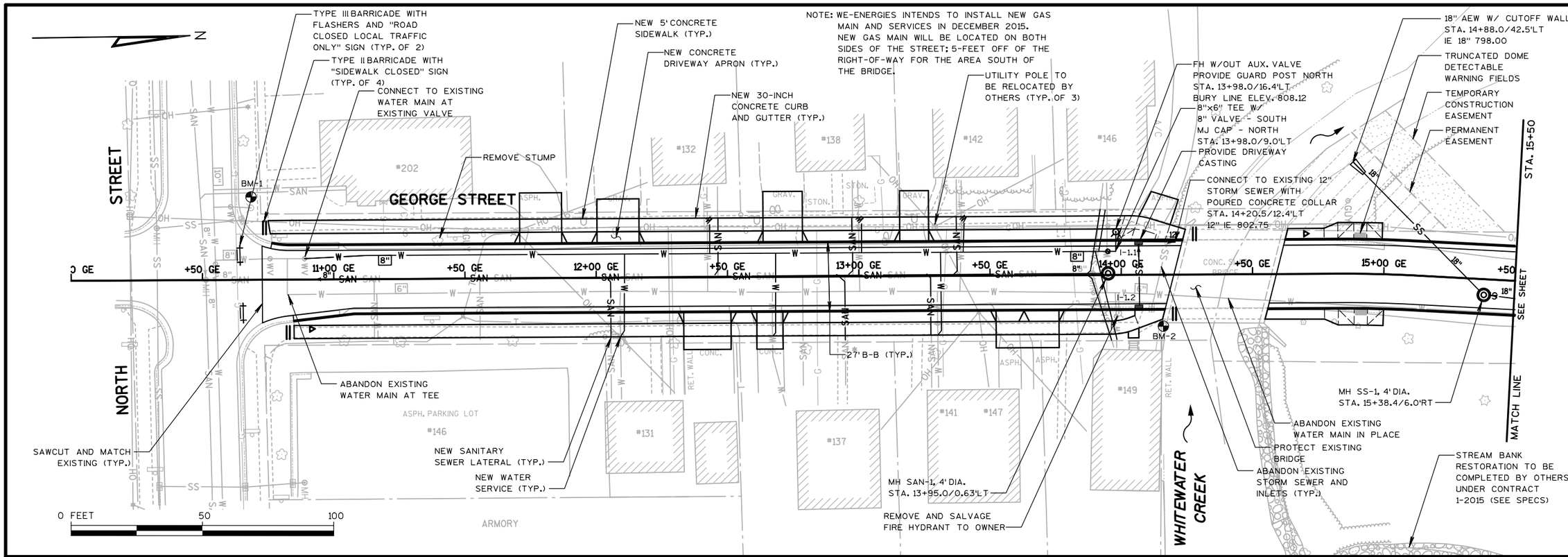

NO.	REVISIONS	DATE:

GEORGE STREET PLAN AND PROFILE

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079

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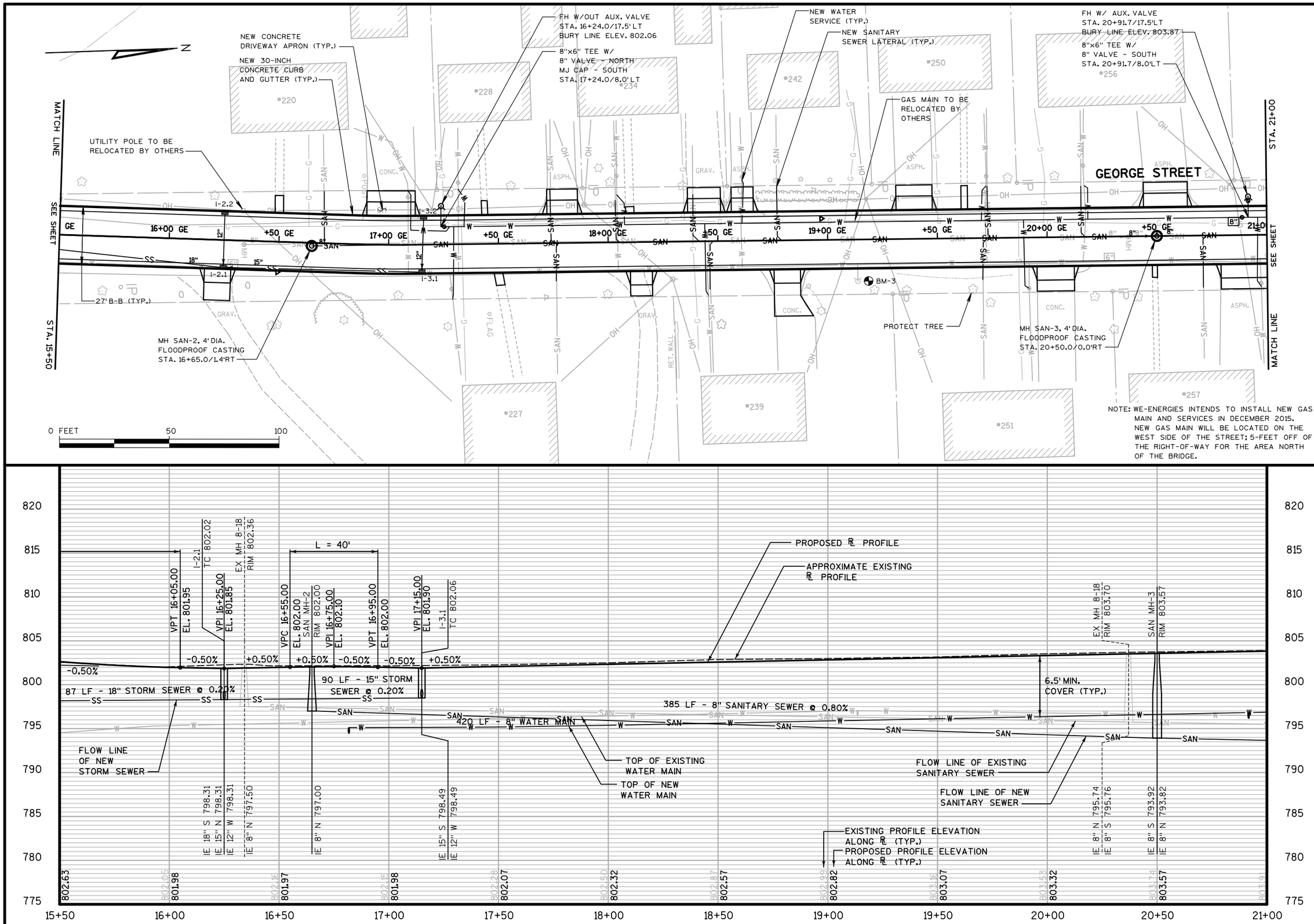
SHEET 10



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GEORGE STREET PLAN AND PROFILE

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079

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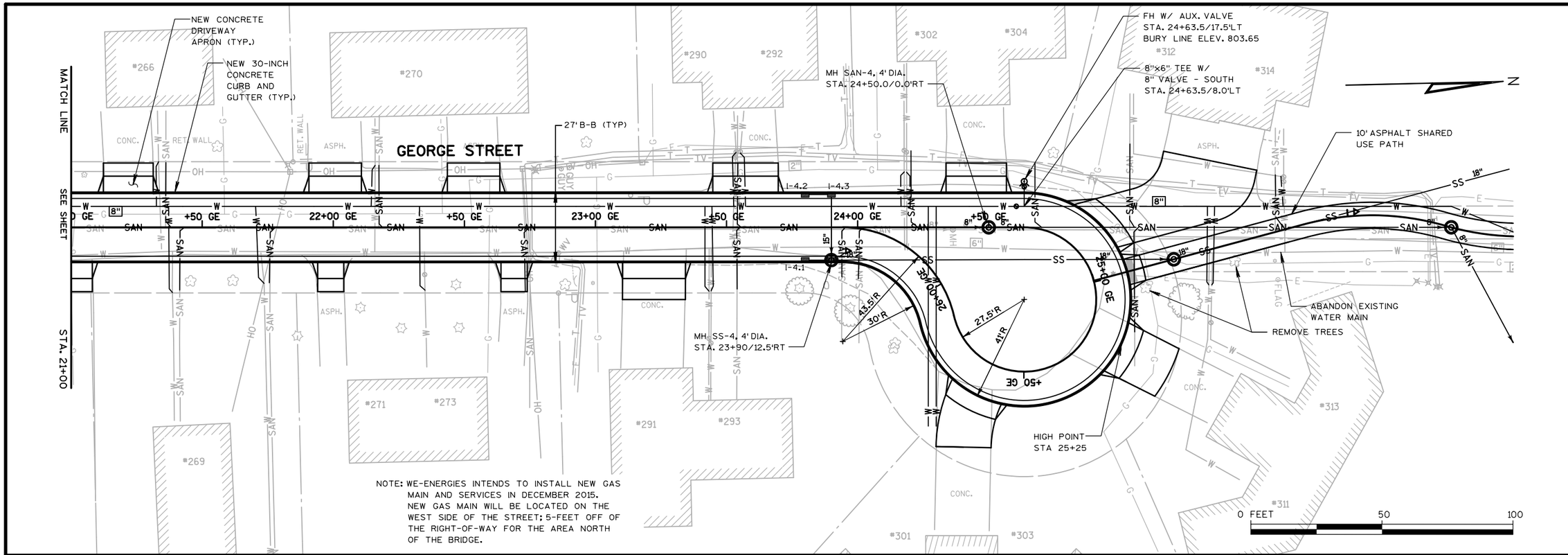
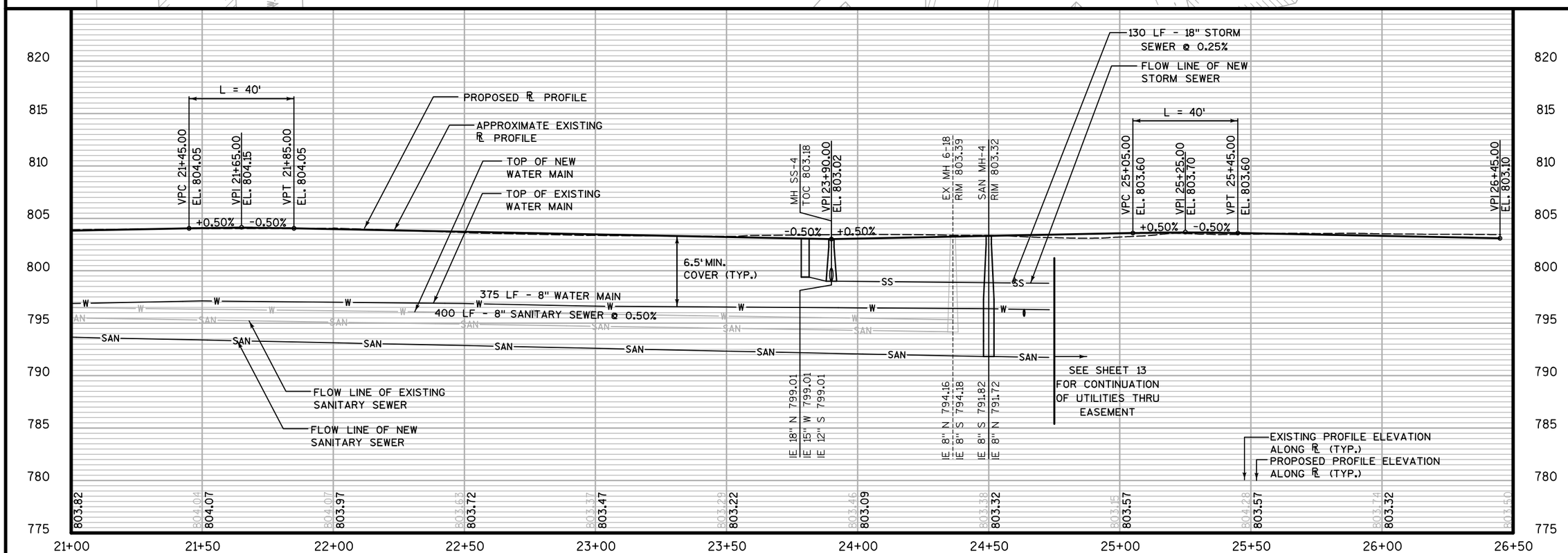
SHEET 11



NOTE: WE-ENERGIES INTENDS TO INSTALL NEW GAS MAIN AND SERVICES IN DECEMBER 2015. NEW GAS MAIN WILL BE LOCATED ON THE WEST SIDE OF THE STREET; 5-FEET OFF OF THE RIGHT-OF-WAY FOR THE AREA NORTH OF THE BRIDGE.



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GEORGE STREET PLAN AND PROFILE
GEORGE STREET RECONSTRUCTION
CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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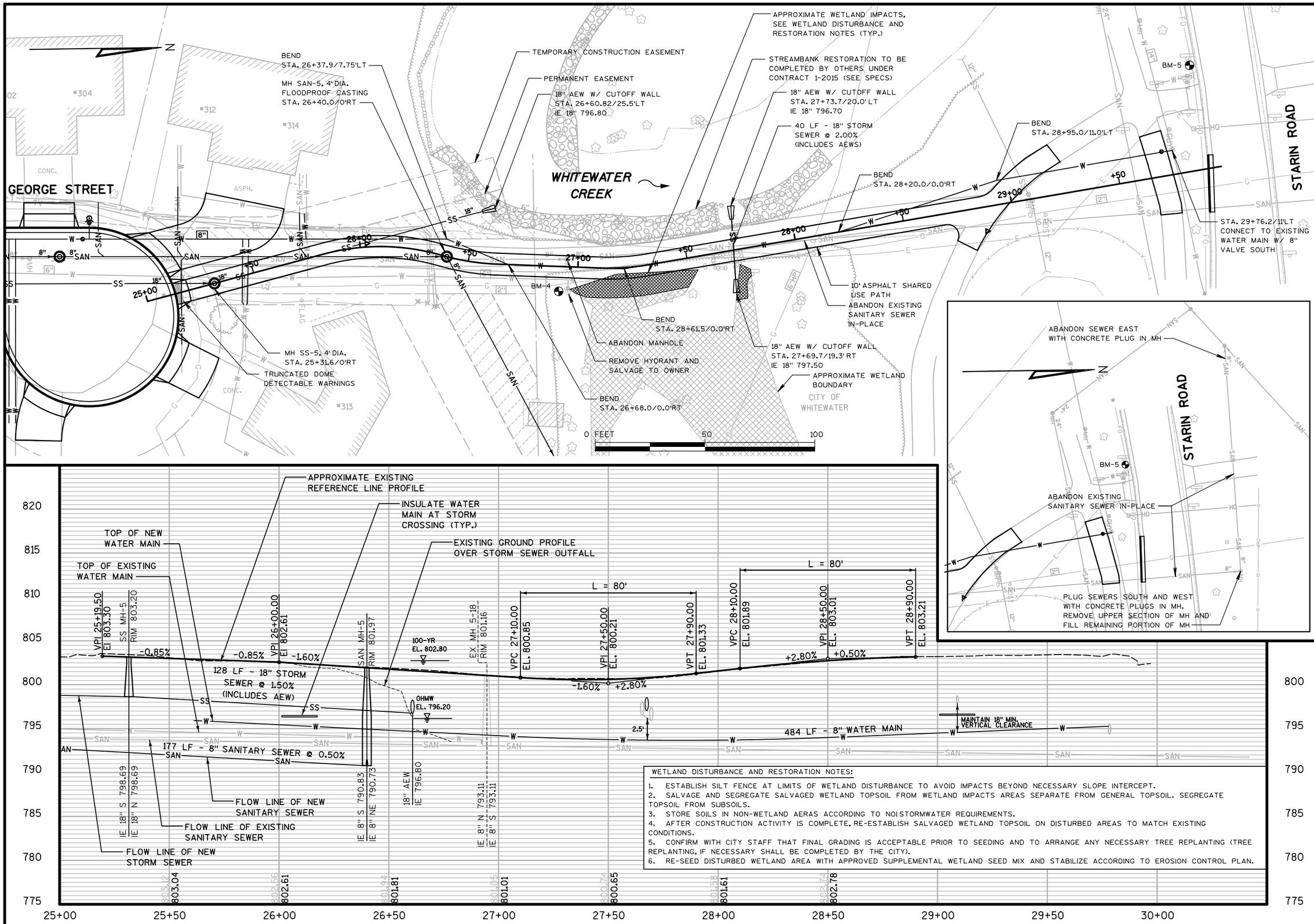
SHEET 12



WETLAND DISTURBANCE AND RESTORATION NOTES:

1. ESTABLISH SILT FENCE AT LIMITS OF WETLAND DISTURBANCE TO AVOID IMPACTS BEYOND NECESSARY SLOPE INTERCEPT.
2. SALVAGE AND SEGREGATE SALVAGED WETLAND TOPSOIL FROM WETLAND IMPACTS AREAS SEPARATE FROM GENERAL TOPSOIL. SEGREGATE TOPSOIL FROM SUBSOILS.
3. STORE SOILS IN NON-WETLAND AERAS ACCORDING TO NOI STORMWATER REQUIREMENTS.
4. AFTER CONSTRUCTION ACTIVITY IS COMPLETE, RE-ESTABLISH SALVAGED WETLAND TOPSOIL ON DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
5. CONFIRM WITH CITY STAFF THAT FINAL GRADING IS ACCEPTABLE PRIOR TO SEEDING AND TO ARRANGE ANY NECESSARY TREE REPLANTING (TREE REPLANTING, IF NECESSARY SHALL BE COMPLETED BY THE CITY).
6. RE-SEED DISTURBED WETLAND AREA WITH APPROVED SUPPLEMENTAL WETLAND SEED MIX AND STABILIZE ACCORDING TO EROSION CONTROL PLAN.

NO.	REVISIONS	DATE:
1	WETLAND DELINEATION LIMITS AND RESTORATION REQUIREMENTS	5/19/15

GEORGE STREET PLAN AND PROFILE

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079

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SHEET 13

WETLAND DISTURBANCE AND RESTORATION NOTES:

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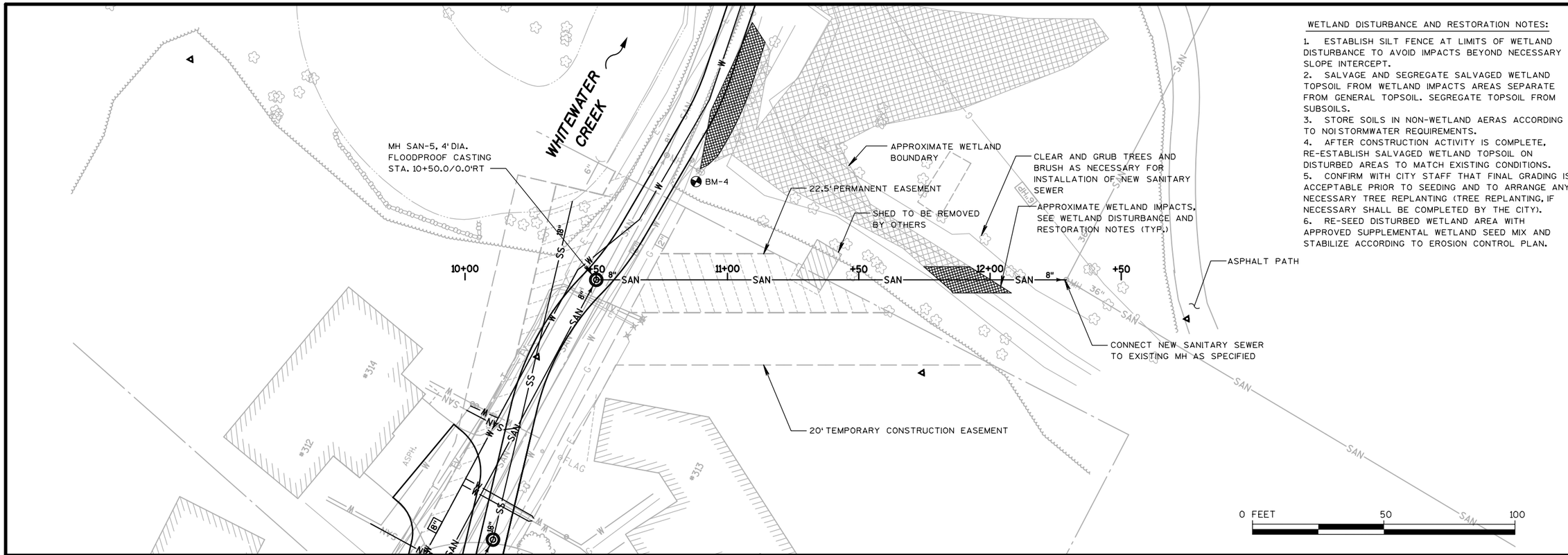

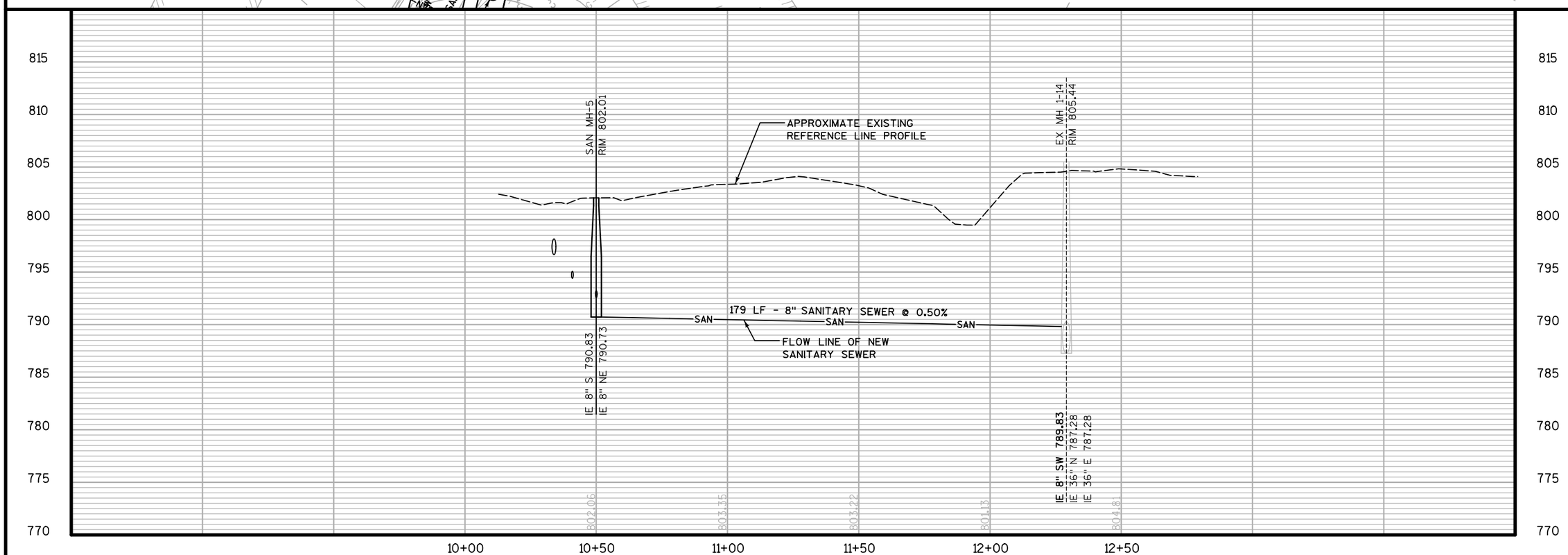

NO.	REVISIONS	DATE:
1	WETLAND DELINEATION LIMITS AND RESTORATION REQUIREMENTS	5/19/15

SANTARY SEWER EASEMENT PLAN AND PROFILE

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

JOB NO. 1407.079

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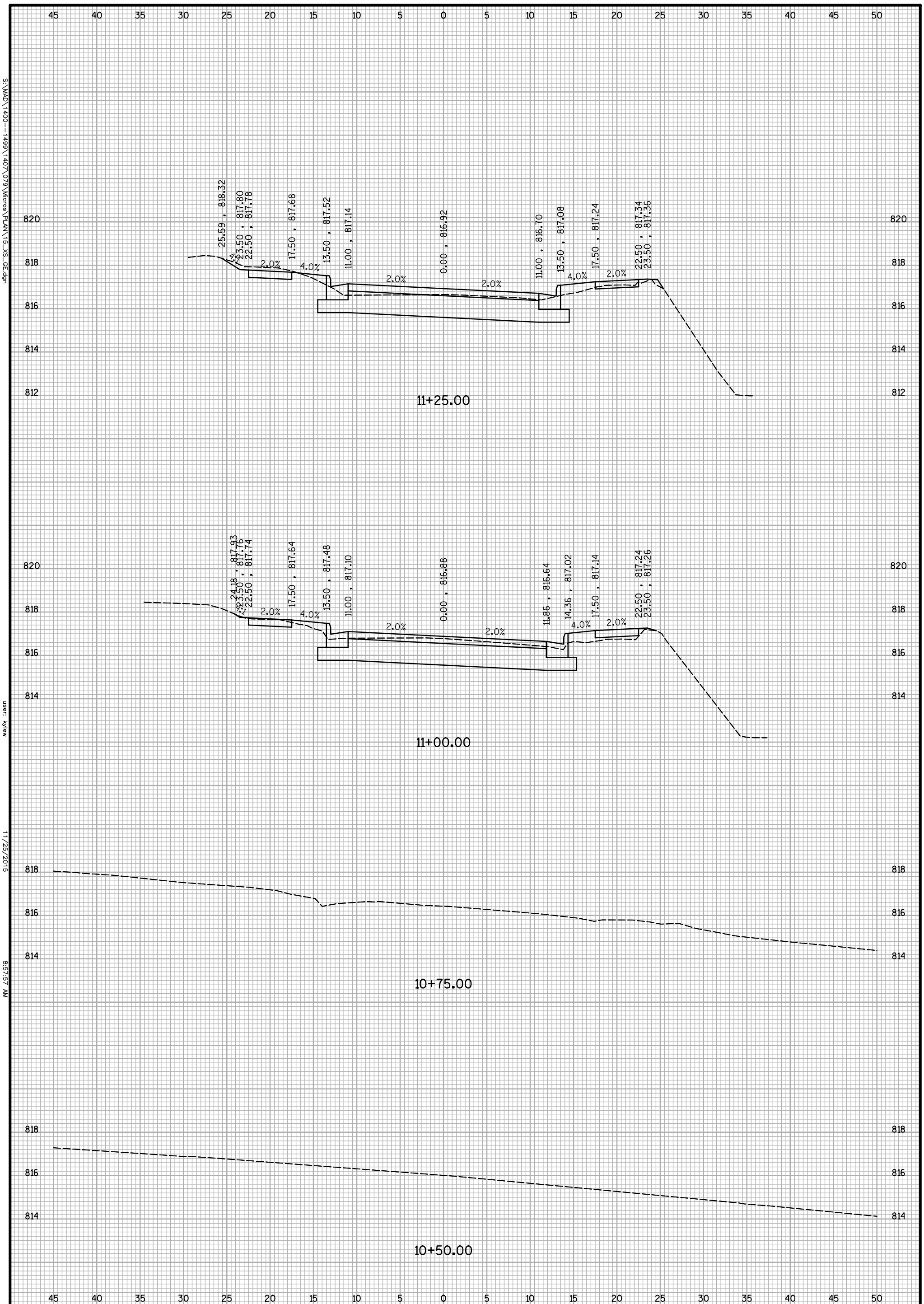
SHEET 14



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11/25/2015

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SHEET 15

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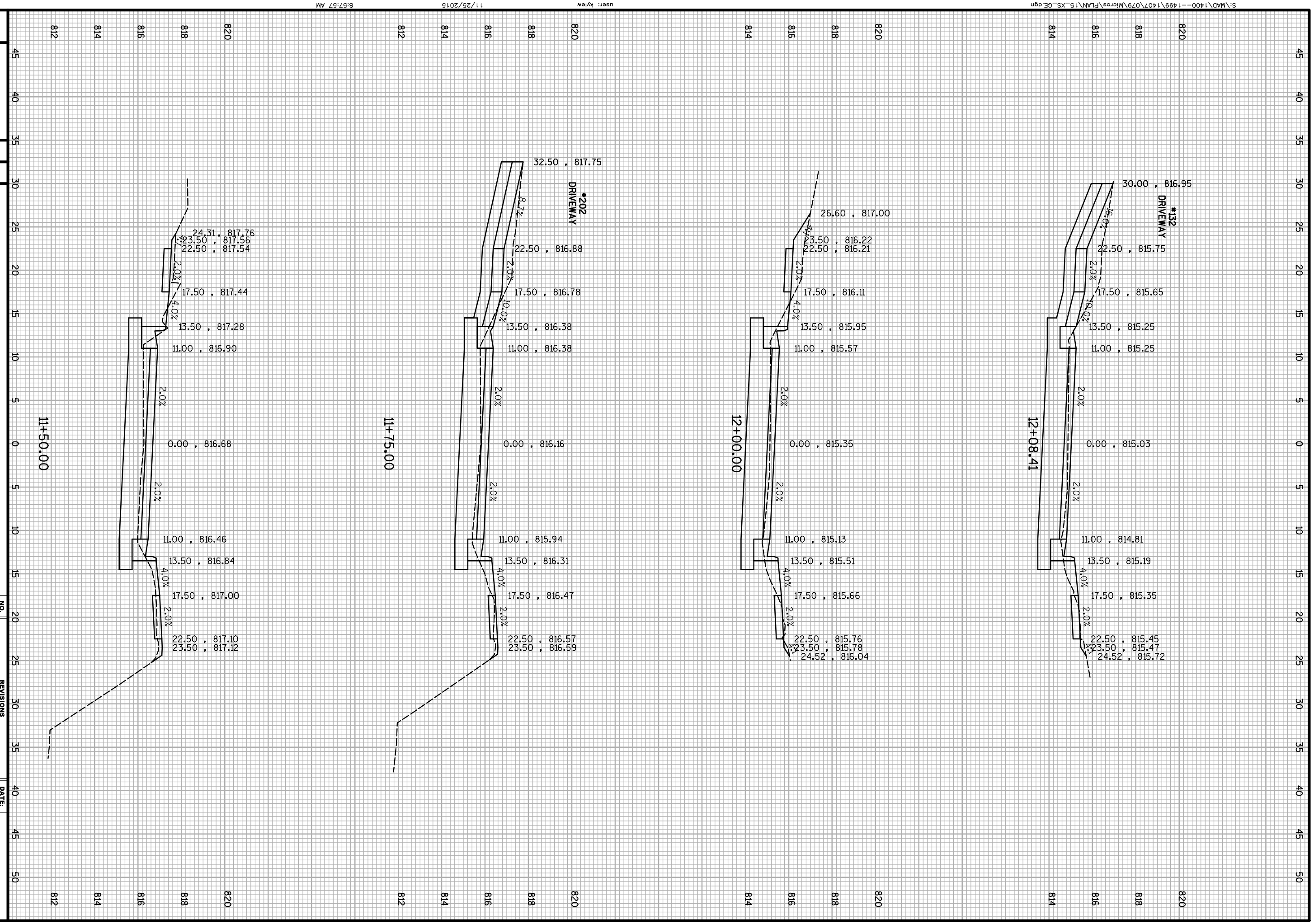
GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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SHEET
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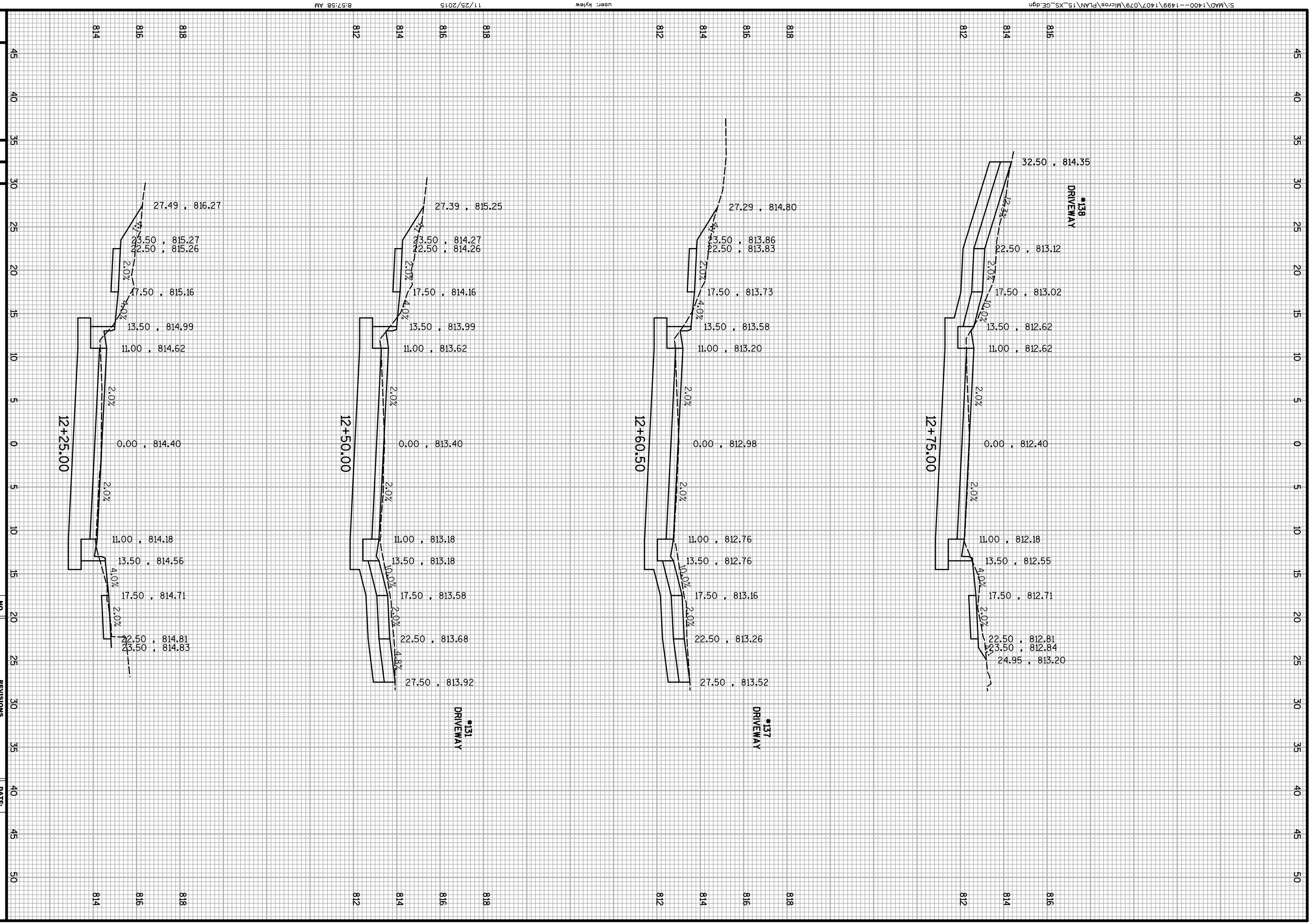


GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

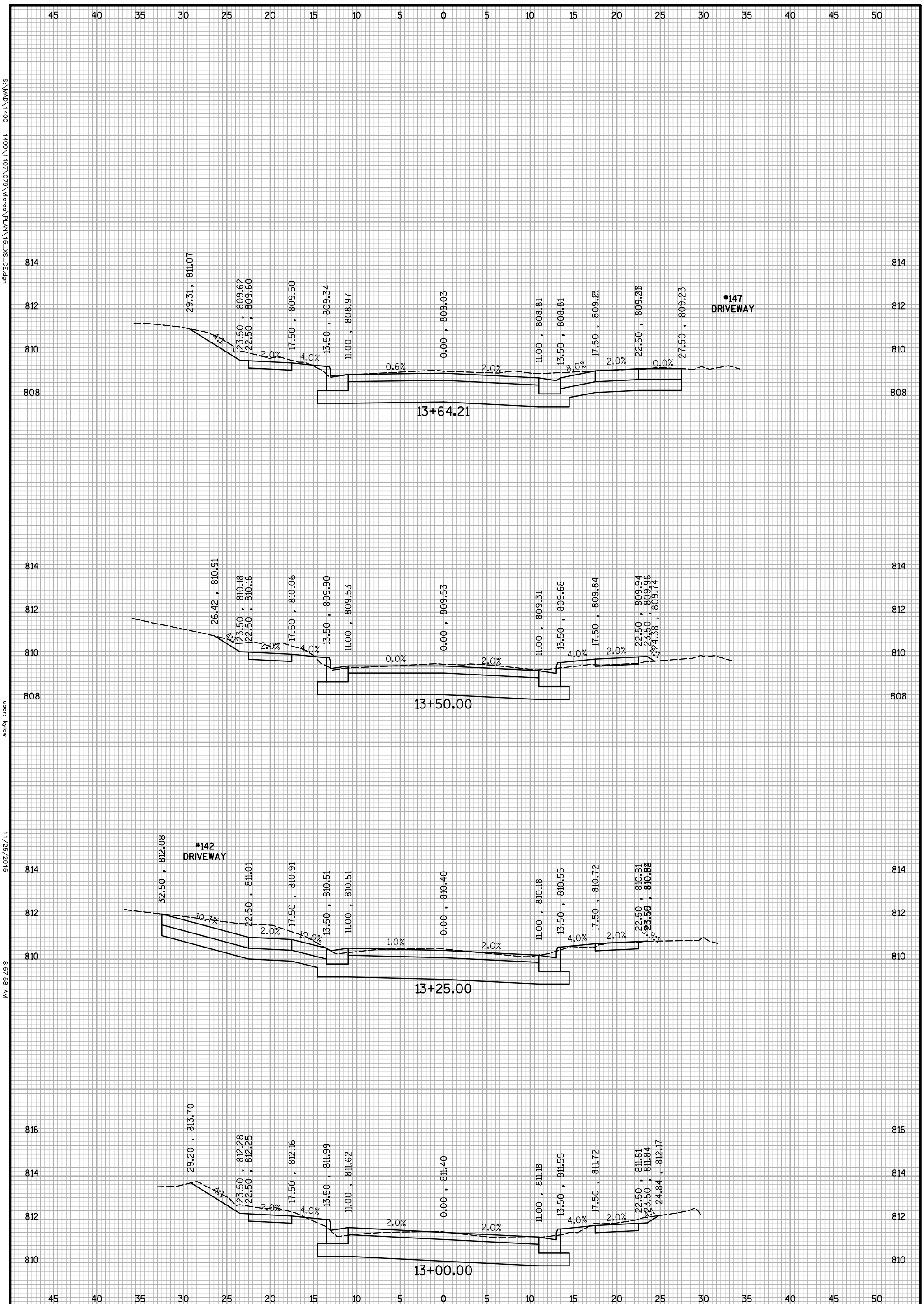
NO.	REVISIONS	DATE:

JOB NO. 1407.079

PROJECT MGR. MAF

STRAND ASSOCIATES®

SHEET 17



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11/25/2015

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SHEET 18

STRAND ASSOCIATES®

PROJECT MGR. MAF

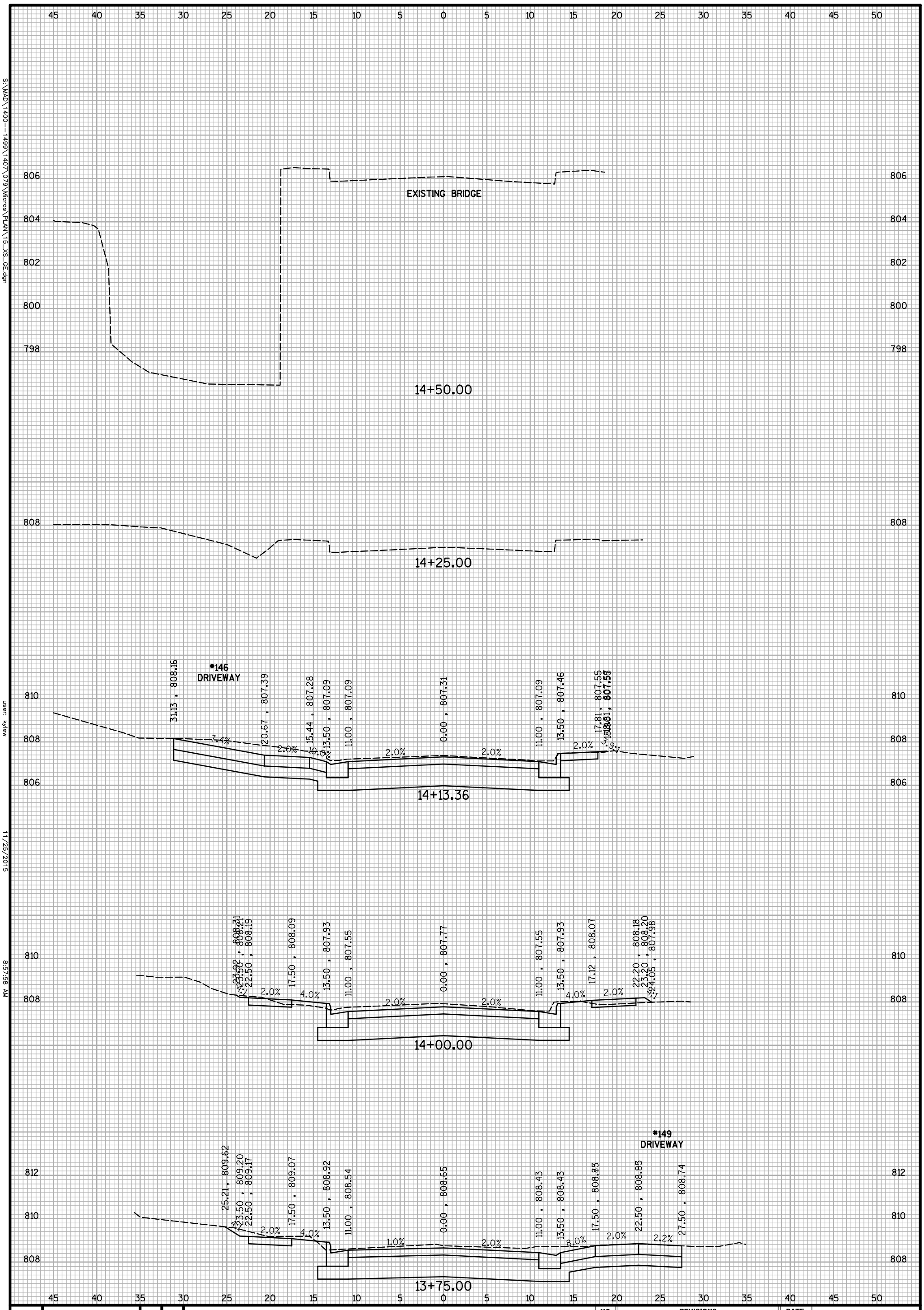
JOB NO. 1407.079

GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



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user: kylew

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GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:

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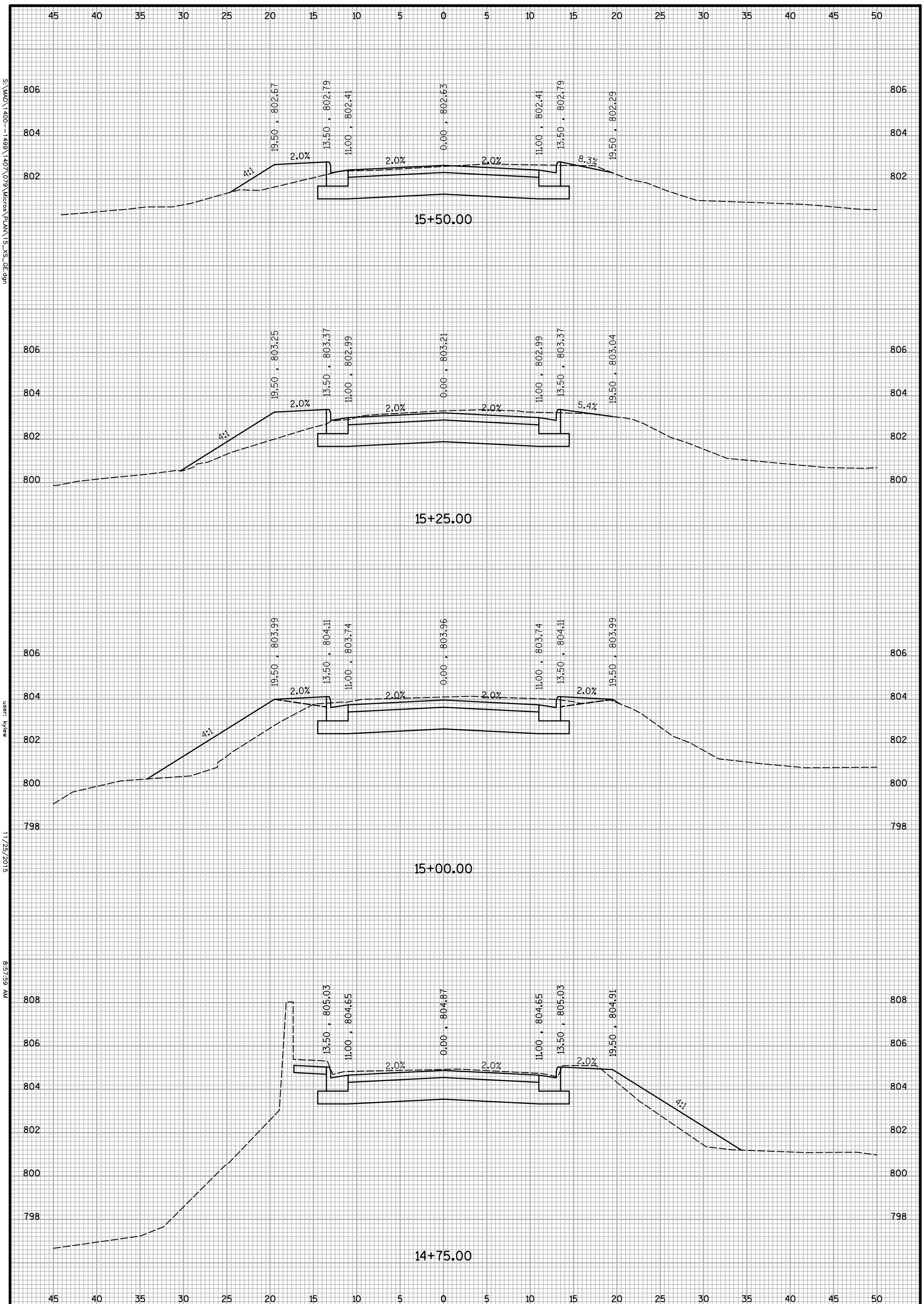
SHEET 19

PROJECT MGR. MAF

JOB NO. 1407.079



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SHEET 20

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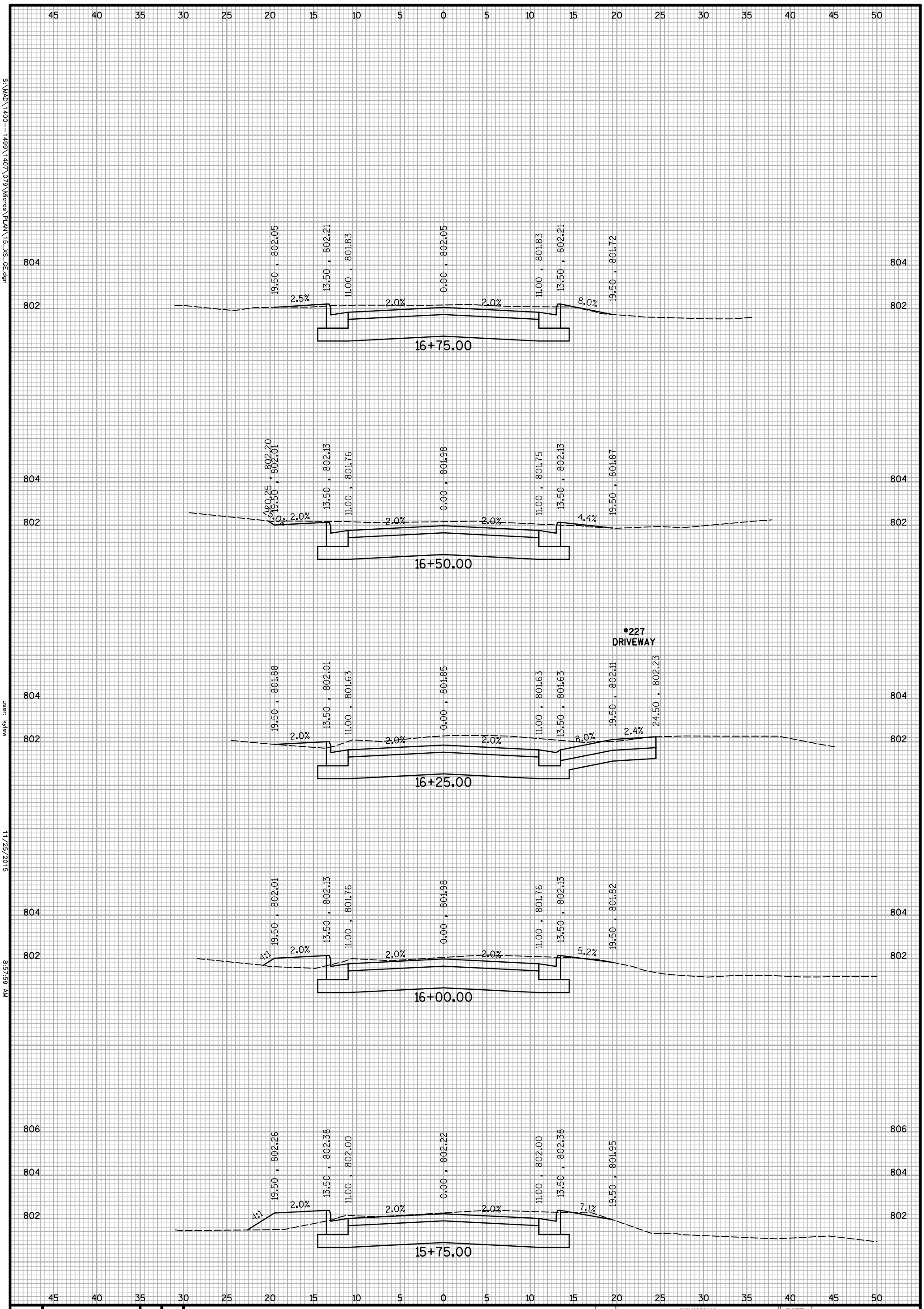
GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



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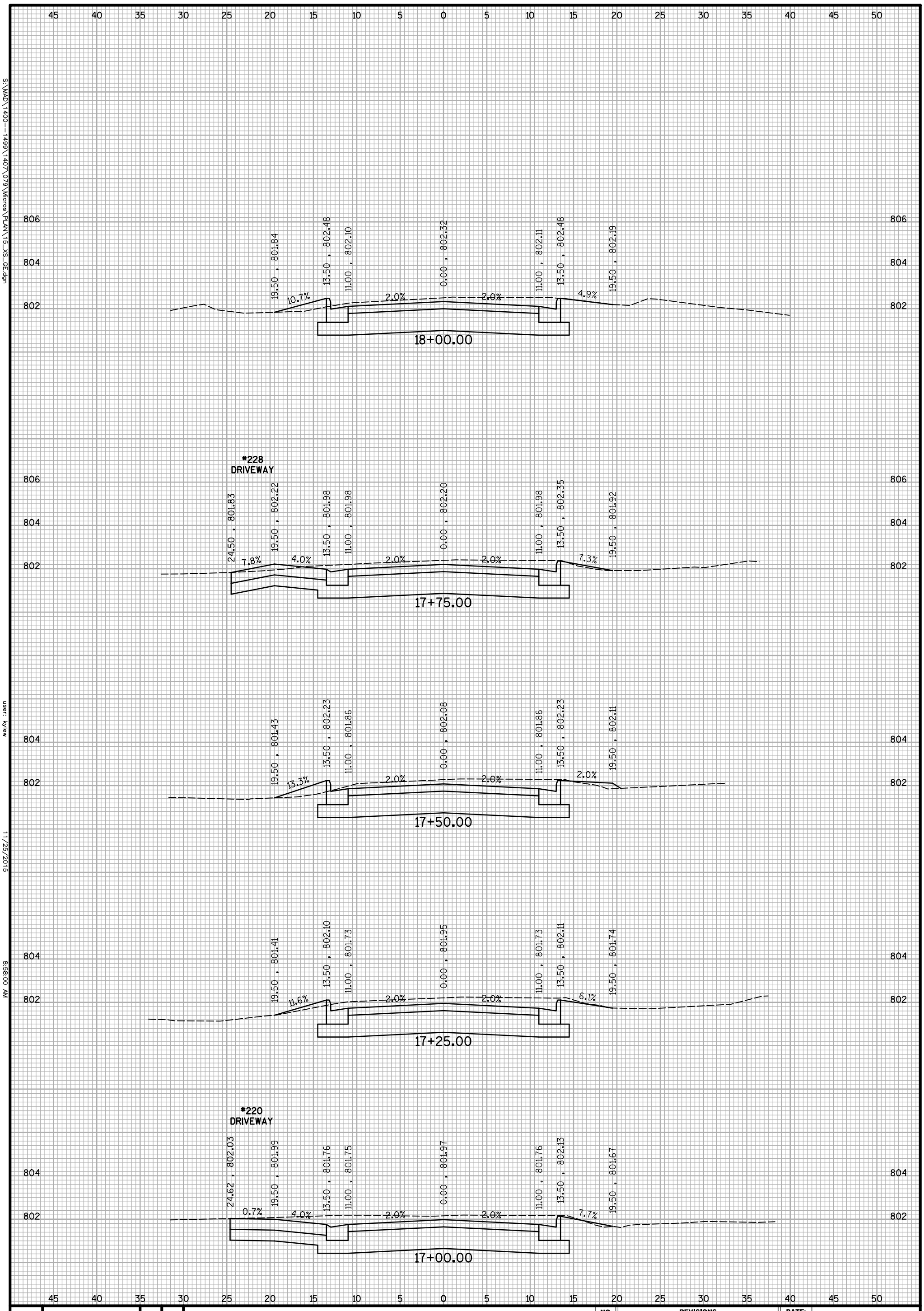
JOB NO. 1407.079

GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



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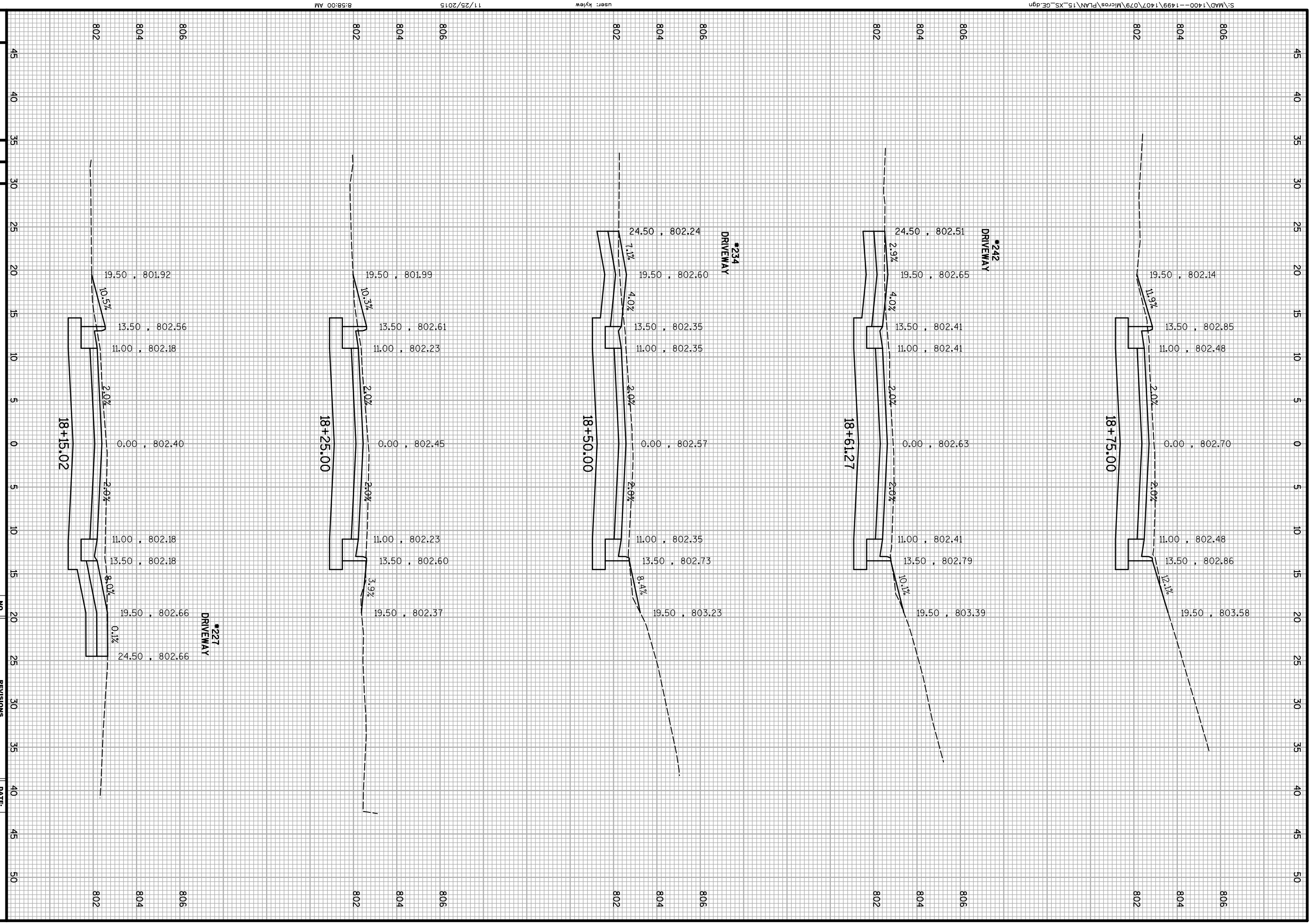
GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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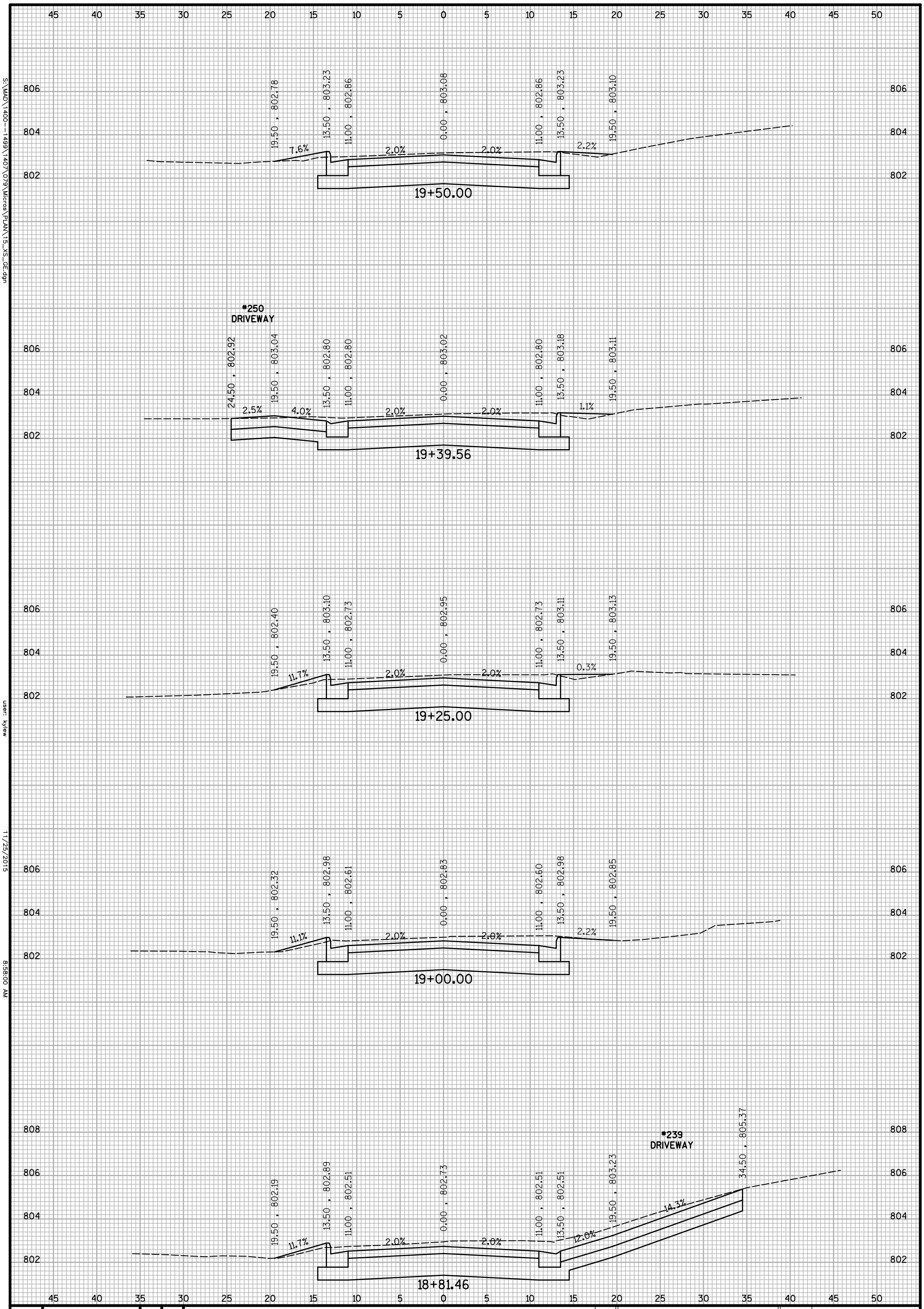

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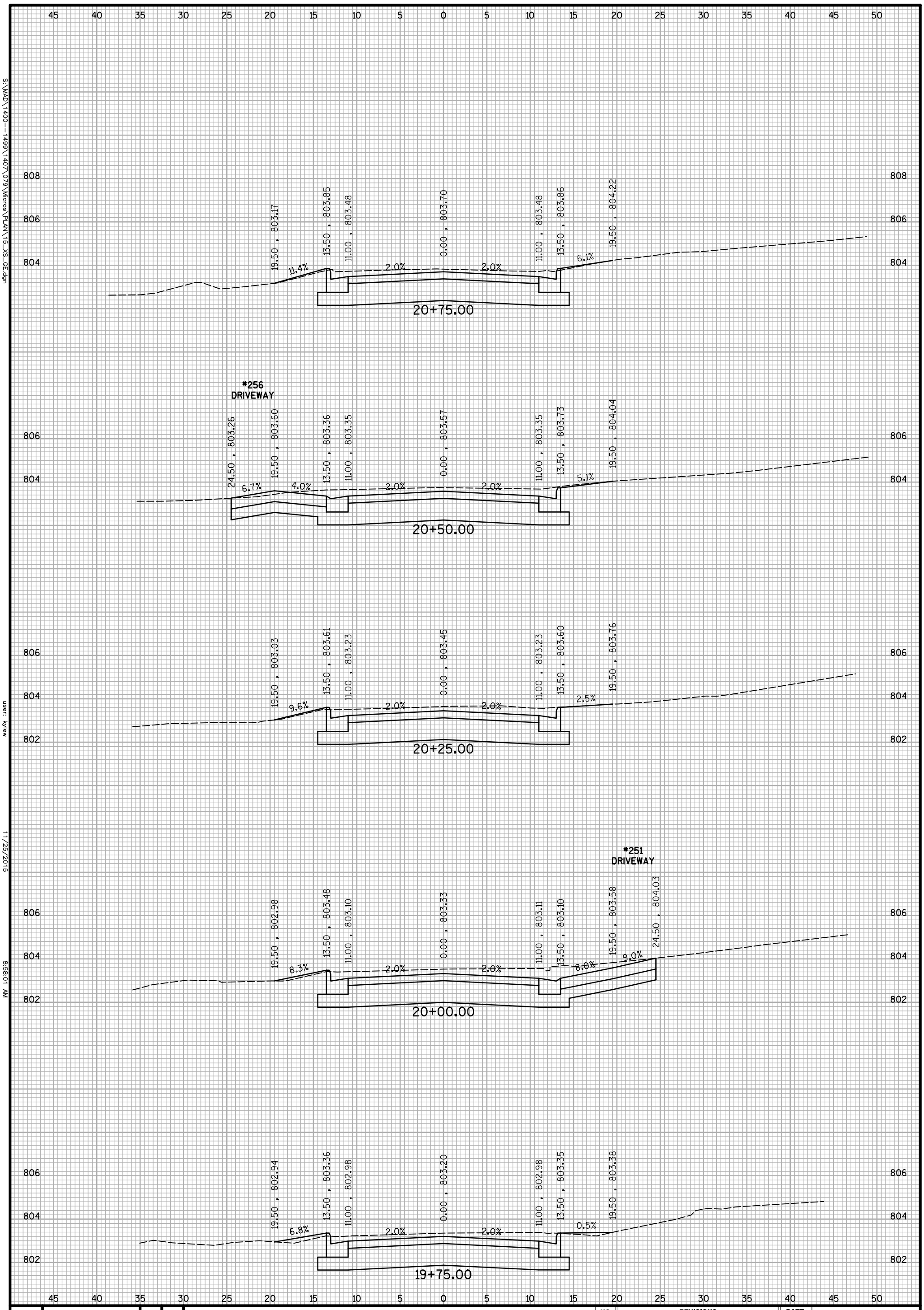
GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



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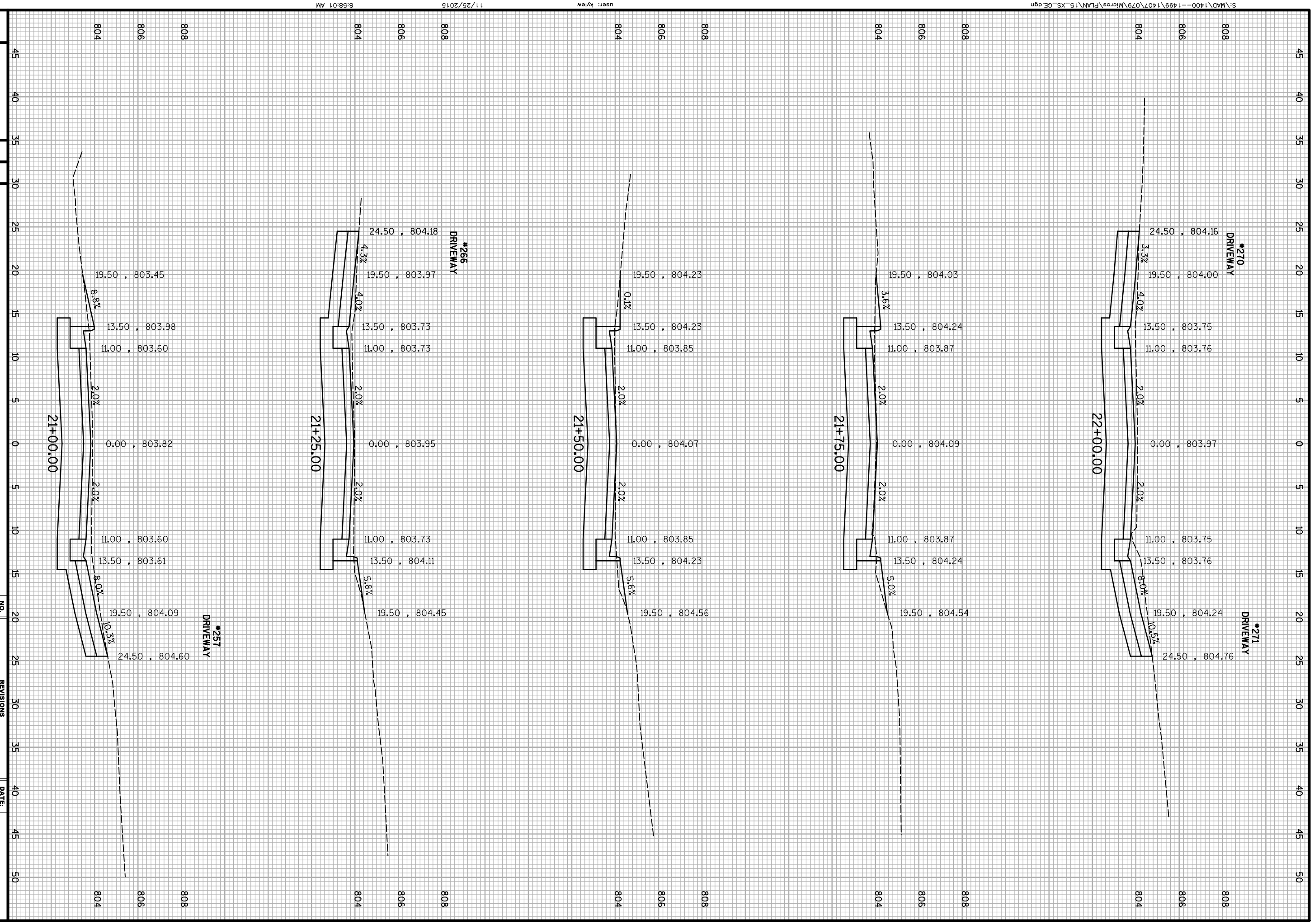
GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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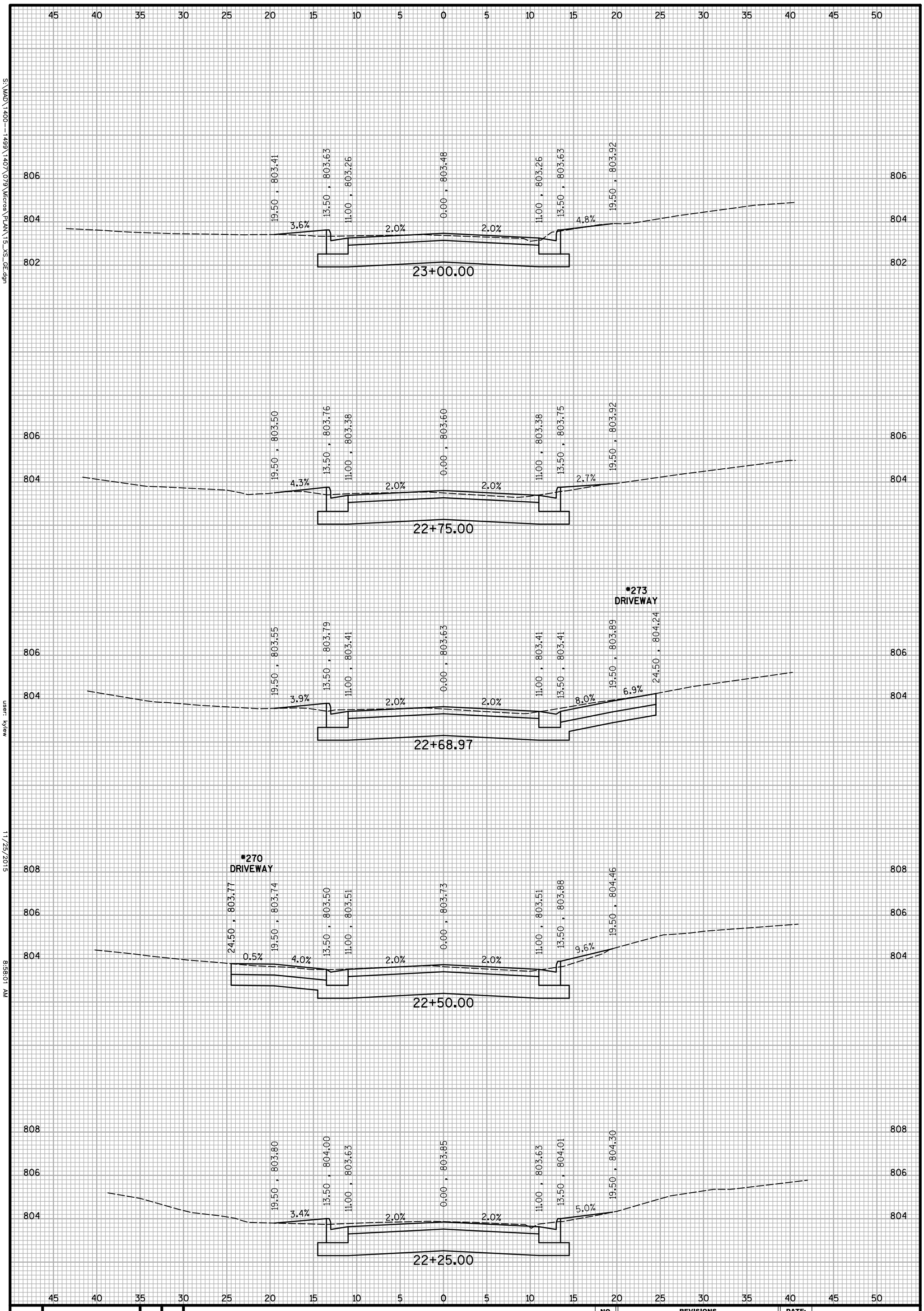

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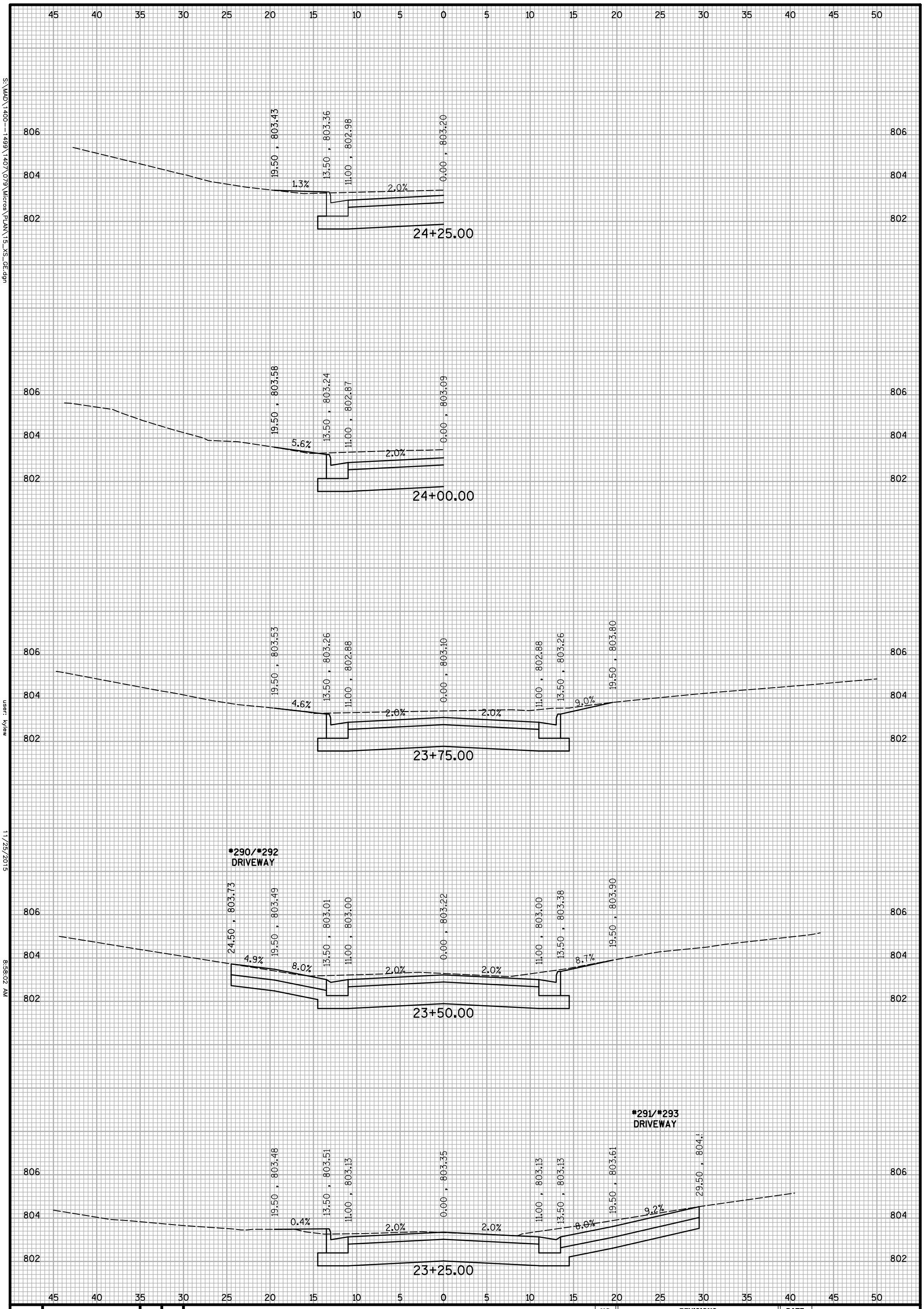
GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

NO.	REVISIONS	DATE:



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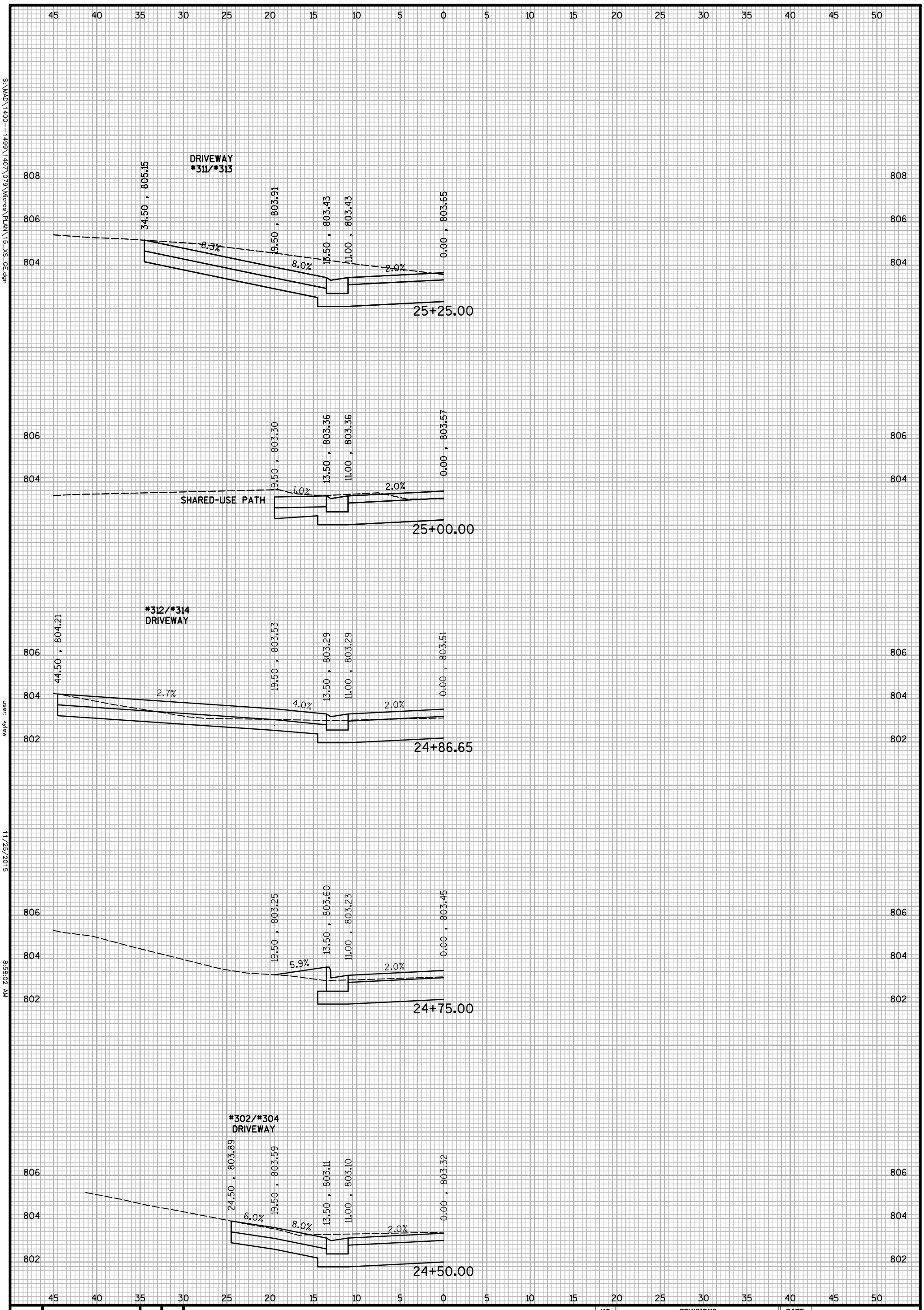
SHEET			JOB NO.	NO.	REVISIONS	DATE:
28	STRAND ASSOCIATES®	PROJECT MGR. MAF	1407.079			

GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN



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JOB NO. 1407.079

GEORGE STREET
CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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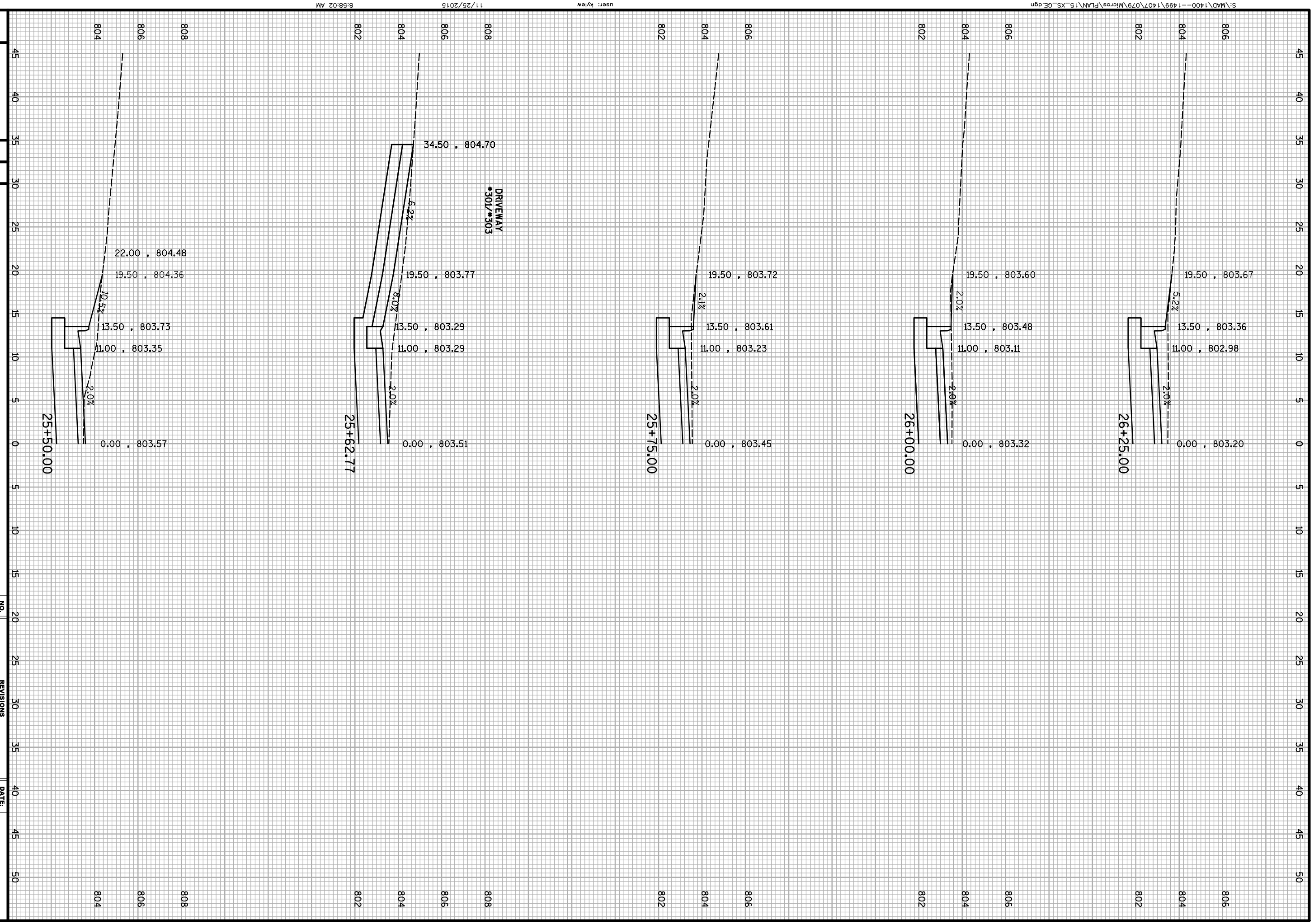

GEORGE STREET CROSS SECTIONS

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
WALWORTH COUNTY, WISCONSIN

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GENERAL NOTES:

1. STRIP TOP SOIL AND PROVIDE 1' OF CLEAN COVER OVER FOUNDRY SAND FILL.
2. ONLY CONTAMINATED FOUNDRY SHALL BE DISPOSED OF AT THIS LOCATION. CONTRACTOR TO DETERMINE DISPOSAL SITE FOR ALL OTHER SURPLUS MATERIAL.

NO.	REVISIONS	DATE:

PROPOSED FOUNDRY SAND FILL LOCATION GRADING PLAN

GEORGE STREET RECONSTRUCTION

CITY OF WHITEWATER
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