PROPOSED:

ADAMS STREET SIDEWALK

N ADAMS STREET
BLOOMINGTON, IN. 47404
FROM W. KIRKWOOD AVE. TO THE
INTERSECTION OF W. 8TH ST.
AND W. FOUNTAIN DR.

UTILITY CONTACT INFORMATION

GAS	SEWER AND WATER	ELECTRIC
VECTREN	CITY OF BLOOMINGTON UTILITIES	DUKE ENERGY
205 S. MADISON ST,	600 E. MILLER DR.	1619 W. DEFFENBAUGH ROAD
BLOOMINGTON, IN 47401	BLOOMINGTON, IN 47402	KOKOMO, INDIANA 46902
DOUG ANDERSON (812)330-4009	NANCY AXSOM (812)349-3689	JIM SHIELDS (317)375-2071
TELEPHONE	**CABLE TELEVISION**	**UNDERGROUND UTILITY LOCATION**
AT&T	COMCAST	INDIANA UNDERGROUND
P.O. BOX 56	2450 SOUTH HENDERSON STREET	PLANT PROTECTION
BLOOMINGTON, IN 47402	BLOOMINGTON, IN 47404	1-(800)382-5544
BRENT McCABE (812)334-4521	SCOTT TEMPLETON (812)355-7822	

VICINITY/LOCATION MAP
NOT TO SCALE

SHEET INDEX

DIAL '811' BEFORE YOU DIG
PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Bloomington, Indiana 47404 (812) 332-8030

architecture
civil engineering
planning

OWNER/DEVELOPER:
CITY OF BLOOMINGTON
401 N MORTON ST.
BLOOMINGTON, IN. 47404

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS

JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER

Certified By:
10.10.23
JEFFREY S. FANYO, P.E.
IND. REG. NO. 60018283

Revisions

EXISTING LEGEND

- EXISTING FENCE — X X X
- EXISTING WATER LINE — W
- EXISTING OVERHEAD UTILITY LINES — OHU
- EXISTING UNDERGROUND ELECTRIC LINES — UGE
- EXISTING UNDERGROUND TELEPHONE LINES — UGT
- EXISTING UNDERGROUND FIBER OPTIC LINES — FO
- EXISTING GAS LINE — GAS
- EXISTING SANITARY FORCEMAIN — FM
- EXISTING CONTOUR — XXX
- FLOW LINE
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING STORM SEWER AND INLET
- PROPERTY LINE

SPECIFICATIONS

CONTRACTOR SHALL REFER TO 'INDIANA DEPARTMENT OF TRANSPORTATION – STANDARD SPECIFICATIONS 2022' FOR DETAILS AND SPECIAL PROVISIONS.

SEE SECTION 105.06 – COOPERATION WITH UTILITIES FOR GAS, SANITARY, WATER, AND ELECTRIC UTILITY APPURTENANCES REQUIRING ADJUSTMENT OR RELOCATION SPECIFICATIONS, DETAILS, AND SPECIAL PROVISIONS

SEE SITE RETAINING WALL DRAWING ON SHEET C402 FOR SPECIFICATIONS AND DETAILS

SITE IMPROVEMENT LEGEND

- (A) PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
- (B) PROPOSED ROAD ASPHALT SURFACE
- (C) PROPOSED DRIVEWAY CONCRETE PAVING
- (PP) PROPOSED PAVEMENT PATCH – REFER TO DETAIL
- (F1) PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
- (F) PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
- (G) PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
- (13) PROPOSED 6" STANDING CURB – REFER TO DETAIL
- (R) PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL
- (R1) PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL
- (R2) PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL
- (RW) PROPOSED RETAINING WALL– REFER TO DETAIL
- (MS) MULCH SEEDING – REFER TO DETAIL
- (SP) CURB INLET PROTECTION – REFER TO DETAIL

EXISTING CONTOUR — XXX

PROPOSED CONTOUR — XXX

TEMPORARY SILT FENCE – REFER TO DETAIL — SF

CONSTRUCTION LIMITS — CL

PROPOSED SPOT GRADE ELEVATION — XXX.XX

TC=PROPOSED TOP OF CURB ELEVATION
EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB — TC=XXX.XX EP=XXX.XX

FINISH EDGE OF PAVEMENT AT GRADE — EP=XXX.XX

MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES — MEG=XXX.XX±

ELEVATION AT TOP OF WALL — TW=XXX.XX

ELEVATION AT BOTTOM OF WALL — BW=XXX.XX

ELEVATION AT TOP OF STOOP — TS=XXX.XX

ELEVATION AT BOTTOM OF STOOP — BS=XXX.XX

STATEMENT OF PERFORMANCE STANDARDS

ON BEHALF OF THE OWNER, CITY OF BLOOMINGTON, BYNUM FANYO & ASSOCIATES, INC. INTENDS TO COMPLY WITH ALL STANDARDS SET FORTH IN THE MONROE COUNTY ZONING ORDINANCE THAT INCLUDES CHAPTER 802. WE PLAN ON WORKING CLOSELY WITH STAFF, PLAN COMMISSION MEMBERS, AND THE OWNER TO CREATE A QUALITY SITE PLAN AND SUCCESSFUL PROJECT THAT WILL EXEMPLIFY MONROE COUNTY'S INTERESTS AND ORDINANCE FOR THIS SITE. THESE STANDARDS ARE AS FOLLOWS:

ALL PERMITTED USES ESTABLISHED OR PLACED INTO OPERATION AFTER THE EFFECTIVE DATE OF THE MONROE COUNTY ORDINANCE SHALL COMPLY WITH THE FOLLOWING PERFORMANCE STANDARDS IN THE INTEREST OF PROTECTING PUBLIC HEALTH, SAFETY AND WELFARE, AND LESSENING INJURY TO PROPERTY. NO USE IN EXISTENCE ON THE EFFECTIVE DATE OF THIS ORDINANCE SHALL BE SO ALTERED AS TO CONFLICT (OR INCREASE AND EXISTING CONFLICT) WITH THESE STANDARDS.

(A) FIRE PROTECTION.
FIRE FIGHTING EQUIPMENT AND PREVENTION MEASURES ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT SHALL BE READILY AVAILABLE AND APPARENT WHEN ANY ACTIVITY INVOLVING THE HANDLING OR STORAGE OF FLAMMABLE OR EXPLOSIVE MATERIALS IS CONDUCTED.

(B) ELECTRICAL DISTURBANCE
NO USE SHALL CAUSE ELECTRICAL DISTURBANCE ADVERSELY AFFECTING RADIO, TELEVISION OR OTHER EQUIPMENT IN THE VICINITY OF THE USE.

(C) NOISE.
NO USE SHALL PRODUCE NOISE IN SUCH A MANNER AS TO BE OBJECTIONABLE BECAUSE OF VOLUME, FREQUENCY, INTERMITTENCE, HEAT, SHRILLNESS, OR VIBRATION. SUCH NOISE SHALL BE MUFFLED OR OTHERWISE CONTROLLED SO AS NOT TO BECOME DETRIMENTAL, PROVIDED HOWEVER, THAT PUBLIC SAFETY SIRENS AND RELATED APPARATUS USED SOLELY FOR PUBLIC PURPOSES SHALL BE EXEMPT FROM THIS STANDARD.

(D) VIBRATION
NO USE SHALL CAUSE VIBRATIONS OR CONCUSSIONS DETECTABLE BEYOND LOT LINES WITHOUT THE AID OF INSTRUMENTS.

(E) AIR POLLUTION.
NO USE SHALL DISCHARGE ACROSS LOT LINES FLY ASH, DUST, SMOKE, VAPORS, NOXIOUS, TOXIC OR CORROSIVE MATTER, OR OTHER AIR POLLUTANTS IN SUCH CONCENTRATION AS TO BE DETRIMENTAL TO HEALTH, ANIMALS, VEGETATION OR PROPERTY AND/OR IN CONFLICT
WITH RELEVANT AIR QUALITY STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES.

(F) HEAT AND GLARE.
NO USE SHALL PRODUCE HEAT OR GLARE IN SUCH MANNER AS TO CREATE A NUISANCE
PERCEPTIBLE FROM ANY POINT BEYOND THE LOT LINES OF THE PROPERTY ON WHICH THE USE IS CONDUCTED. IN NONRESIDENTIAL AREAS, ANY LIGHTING USED TO ILLUMINATE AN OFF-STREET PARKING AREA, LOADING AREA, DRIVEWAY, OR SERVICE DRIVE SHALL BE SHIELDED WITH APPROPRIATE LIGHT FIXTURES DIRECTING THE LIGHT DOWN AND AWAY FROM ADJACENT PROPERTIES IN ORDER THAT THE ILLUMINATION AT ANY PROPERTY LINE SHALL NOT
EXCEED ONE (1) FOOT CANDLE. ALL EXTERIOR LIGHTING SHALL BE HOODED AND SHIELDED SO THAT THE LIGHT SOURCE (I.E. BULB, FILAMENT, ETC.) IS NOT DIRECTLY VISIBLE FROM THE RESIDENTIAL PROPERTY LINES. IN RESIDENTIAL AREAS, EXTERIOR LIGHTING AT ANY PROPERTY LINE SHALL NOT EXCEED ONE (1) FOOT CANDLE.

(G) WATER POLLUTION
NO USE SHALL PRODUCE EROSION OR OTHER POLLUTANTS IN SUCH QUANTITY AS TO BE
DETRIMENTAL TO ADJACENT PROPERTIES AND CONFLICT WITH RELEVANT WATER POLLUTION STANDARDS ESTABLISHED BY STATE AND/OR FEDERAL AGENCIES.

(H) WASTE MATTER.
NO USE SHALL ACCUMULATE WITHIN THE LOT, OR DISCHARGE BEYOND THE BOUNDARY LINES OF THE LOT ON WHICH THE USE IS LOCATED, ANY WASTE MATTER, WHETHER LIQUID OR SOLID, IN VIOLATION OF APPLICABLE PUBLIC HEALTH, SAFETY AND WELFARE STANDARDS AND REGULATIONS.

OWNER CONTACT INFORMATION

DEVELOPER: CITY OF BLOOMINGTON, 401 N. MORTON ST. BLOOMINGTON, IN.
CONTACT: ENGINEERING DEPARTMENT (812) 349-3913

GENERAL NOTES

- ☒ 1. BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT STREET, BLOOMINGTON, INDIANA 47404. PHONE (812) 332-8030
- ☒ 2. DEVELOPER: CITY OF BLOOMINGTON
- ☒ 3. PROJECT ADDRESS: N ADAMS ST. BLOOMINGTON, IN. 47404
- ☒ 4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- ☒ 5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- ☒ 6. HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
- ☒ 7. EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
- ☒ 8. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

RIGHT-OF-WAY ACQUISITION

TEMPORARY RIGHT-OF-WAY

PERMANENT RIGHT-OF-WAY

PARKING AND PAVEMENT NOTES

- ☒ 1. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES, 2009 EDITION AS AMENDED.
- ☐ 2. ALL PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALT PAVEMENT / YELLOW ON CONCRETE PAVEMENT AND SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE.
- ☒ 3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL CURB RADIUS ARE TO BE 5' UNLESS INDICATED OTHERWISE.
- ☐ 4. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
- ☒ 5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
- ☒ 6. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOLS.
- ☒ 7. CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
- ☒ 8. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC. AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.

ON-SITE UTILITY NOTES

- ☒ 1. ALL WATER PIPE 6" AND LARGER SHALL BE PRESSURE CLASS 350 DIP WATER PIPE CONFORMING TO ALL STATE AND LOCAL STANDARDS.
- ☐ 2. WATER MAIN FITTINGS 6" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA/ANSI STANDARD SPECIFICATIONS C153/A21.53, LATEST REVISION.
- ☐ 3. 2" WATER MAINS SHALL BE SDR-21 (PR200) AND 4" PIPE MAY BE EITHER SDR-21 (PR200) OR C900 (DR-14).
- ☐ 4. ALL WATER SERVICE LINES CONNECTING TO 2" PVC MAINS SHALL BE 1" TYPE "K" COPPER. ALL SERVICE LINES FROM MAIN TO METER SHALL BE TYPE "K" COPPER WITH FLARED ENDS.
- ☐ 5. MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE BENDS, OFFSETS, TEES, PLUGS, ETC...
- ☐ 6. ALL WATER LINE GATE VALVES OTHER THAN AIR RELEASE VALVES AND TAPPING VALVES SHALL BE CAST IRON BODY, FULLY BRONZE MOUNTED, WITH RESILIENT SEAT AND NON-RISING STEM AND SHALL BE MANUFACTURED BY M & H VALVE COMPANY, DARLING VALVE AND MANUFACTURING COMPANY, KENNEDY VALVE COMPANY, OR MUELLER COMPANY.
- ☐ 7. FLUSH HYDRANTS SHALL BE PLACED AT THE ENDS OF ALL WATER MAINS AND AT ANY HIGH POINTS IN THE LINE.
- ☐ 8. AIR RELEASE VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF WATER MAINS AND SHALL BE VAL-MATIC BRAND AND SHALL INCORPORATE THE OPTIONAL VACUUM-CHECK FEATURE.
- ☐ 9. ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN OR MUELLER CENTURION.
- ☐ 10. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- ☒ 11. WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE TOP OF PIPE.
- ☐ 12. ALL SPRINKLER, DOMESTIC, AND SANITARY LEADS TO THE BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- ☐ 13. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18").
- ☐ 14. GRAVITY SANITARY SEWER PIPE 6" TO 15" SHALL BE CONSTRUCTED OF SDR-35 PVC.
- ☐ 15. THE UPSTREAM ENDS OF ALL SANITARY SEWER LATERALS SHALL BE CLEARLY MARKED WITH A 4x4 TREATED POST EXTENDING 3' BELOW GRADE AND 1' ABOVE GRADE.
- ☐ 16. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- ☐ 17. SEE SITE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
- ☒ 18. SITE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- ☒ 19. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
- ☒ 20. ALL CATCH BASIN GRATE AND FRAMES ARE TO BE BY EAST JORDAN IRON WORKS.
- ☒ 21. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- ☐ 22. BUILDING CONTRACTOR SHALL PROVIDE & INSTALL A PERMANENT INDICATING VALVE 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATION POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST & WILL REMAIN AS PART OF THE SYSTEM ONCE ALL TESTING IS COMPLETED. THE FIRE LINE MAIN WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM. SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE MAIN WITH THE BUILDING CONTRACTOR.
- ☒ 23. ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT CBU UTILITIES TECHNICIAN AT (812)349-3676 TO SCHEDULE THE MEETING.
- ☒ 24. CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CBU DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CBU WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT AT (812)349-3660.

GRADING NOTES

- ☒ 1. NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED OR PLANTED.
- ☒ 2. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEEDED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
- ☒ 3. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.
- ☒ 4. ALL AREAS NOT COVERED BY BUILDING OR PAVING ARE TO BE VEGETATED (SEEDED OR PER LANDSCAPE PLAN).
- ☒ 5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
- ☒ 6. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- ☒ 7. BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. THE LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
- ☐ 8. CONTRACTOR SHALL COMPACT AND MAINTAIN A 30,000 SQ. FT. STONEBASE CONSTRUCTION LAYDOWN AREA W/ STONE ACCESS FROM THE CONSTRUCTION ENTRANCE AND STONE ACCESS TO THE BUILDING PAD.
- ☒ 9. THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND CANNOT SHOW EVERY ITEM NEEDED FOR A COMPLETE OPERATIONAL STORM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATING STORM SYSTEM.
- ☒ 10. ALL FILL SHALL BE FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTION. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT AS DICTATED BY THE TYPE OF FILL MATERIAL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILARLY TRACKED VEHICLE BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENTAGE OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (95 PERCENT OF MAXIMUM DRY DENSITY). IF THE SPECIFIED COMPACTION LIMITS ARE NOT MET, SUCH AREAS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.

LANDSCAPE NOTES

- ☐ 1. ALL PLANT MATERIAL SHALL ARRIVE ONSITE IN A HEALTHY, VIGOROUS CONDTION AND BE FREE OF PESTS AND DISEASE.
- ☐ 2. ALL PLANTS SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
- ☐ 3. ALL TREES SHALL BE STRAIGHT-TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ☐ 4. ALL TREES SHALL BE GUYED OR STAKED PLUMB AS SHOWN IN THE DETAILS.
- ☐ 5. ALL PLANTING MASS BEDS SHALL BE SPADE CUT UNLESS SPECIFIED WITH A MOW STRIP OR OTHER INSTALL EDGING. TREES TO HAVE A 5' DIAMETER MULCH RING.
- ☐ 6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED WHERE SPECIFIED.
- ☒ 7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION. PLANTING LOCATIONS MAY REQUIRE ADJUSTMENTS IN FIELD TO AVOID OVERHEAD AND UNDERGROUND UTILITIES.
- ☐ 8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND SPECIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
- ☐ 9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING AND LAWN AREAS INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, PRUNING, FERTILIZING, ETC., UNTIL WORK IS ACCEPTED IN FULL BY THE OWNER.
- ☐ 10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- ☐ 11. THE OWNER SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- ☐ 12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST OR DRIP IRRIGATION SYSTEM PRIOR TO INSTALLATION. WATER ALL SPECIMENS WITHIN 24 HOURS OF PLANTING.
- ☐ 13. ANY NEW OR TRANSPLANTED PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY AND SIZE TO MEET ALL PLANT LIST SPECIFICATIONS.
- ☐ 14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- ☐ 15. ALL SHRUB, GROUNDCOVER, ANNUAL AND HERBACEOUS PERENNIAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF FOUR INCHES.
- ☐ 16. DURING THE GROWING SEASON ALL ANNUALS AND HERBACEOUS PERENNIALS SHALL REMAIN IN A HEALTHY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- ☐ 17. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN ON PLANS.
- ☒ 19. ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE MULCH BEDS ARE TO BE DEBRIS-RAKED AND FINED-GRADED AS NEEDED, THEN MULCH SEEDED (OR SODDED, PER PLAN) AND WATERED UNTIL A HEALTHY STAND OF TURF IS ESTABLISHED.
- ☐ 20. ANY PLANT OR OTHER LANDSCAPE MATERIAL SUBSTITUTIONS INSTALLED WITHOUT DESIGNER AND/OR OWNER APPROVAL SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER BEFORE, DURING AND AFTER INSTALLATION.

NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN ☒ APPLY TO THIS PROJECT.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
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(812) 339-2990 (Fax)

JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23

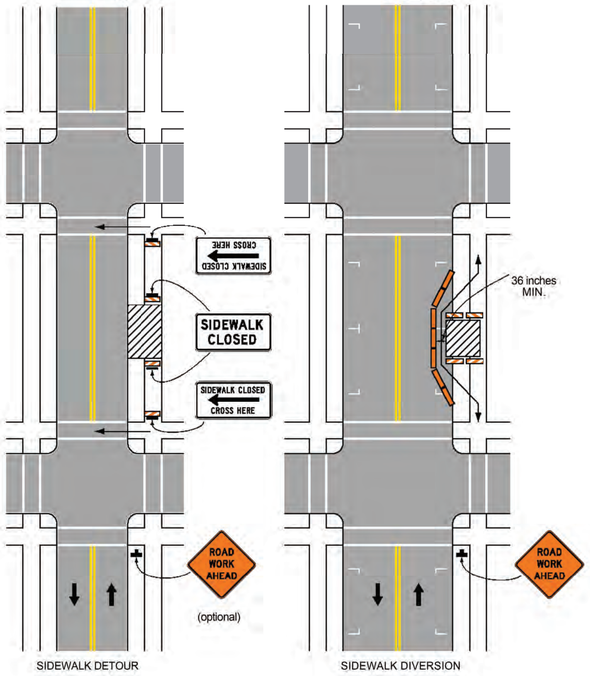
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: GENERAL NOTES & LEGENDS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C101
project no.: 402101

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Notes for Figure 6H-28 Typical Application 28
Sidewalk Detour or Diversion

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

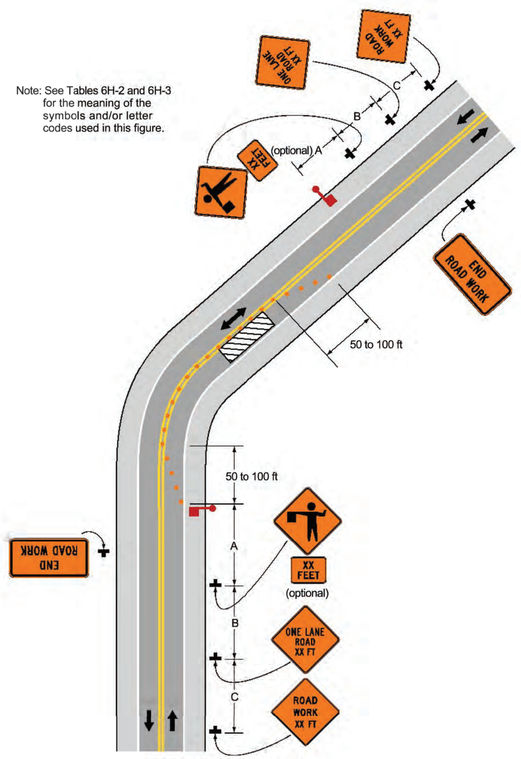
Guidance:

2. *Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*

Option:

4. Street lighting may be considered.
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the temporary sidewalks from vehicular traffic flow.
8. Signs, such as KEEP RIGHT (LEFT), may be placed along a temporary sidewalk to guide or direct pedestrians.

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

Notes for Figure 6H-10 Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

Option:

1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. *The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.*

Standard:

5. **At night, flagger stations shall be illuminated, except in emergencies.**

Guidance:

6. *When used, the BE PREPARED TO STOP sign should be located between the Flagger sign and the ONE LANE ROAD sign.*
7. *When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.*
8. *When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.*
9. *When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.*
10. *Early coordination with the railroad company or light rail transit agency should occur before work starts.*

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or support trailer	Surveyor
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck-mounted attenuator
Flagger	Type 3 barricade
High-level warning device (Flag tree)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long-term project	

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

MAINTENANCE OF TRAFFIC NOTES

REFER TO '2011 INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH REVISIONS 1 & 2 & 3' FOR ADDITIONAL DETAILS

COORDINATE MAINTENANCE OF TRAFFIC WITH THE CITY OF BLOOMINGTON ENGINEERING AND TRANSPORTATION DEPARTMENTS

SPECIAL PROVISIONS FOR THE MAINTENANCE OF TRAFFIC SHALL BE PROVIDED BY THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

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(812) 339-2990 (Fax)

JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: MAINTENANCE OF TRAFFIC PLAN

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C102
project no.: 402101

MOT ROAD CLOSURE NOTES

REFER TO '2011 INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH REVISIONS 1 & 2 & 3' FOR ADDITIONAL DETAILS

COORDINATE MAINTENANCE OF TRAFFIC WITH THE CITY OF BLOOMINGTON ENGINEERING AND TRANSPORTATION DEPARTMENTS

SPECIAL PROVISIONS FOR THE MAINTENANCE OF TRAFFIC SHALL BE PROVIDED BY THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT

CONTRACTOR MAY MODIFY THE LANE CLOSURE AREA. LANE CLOSURE MUST START WITH THE NORTH END AT W. FOUNTAIN DRIVE DURING ALL LANE CLOSURE PERIODS. CONTRACTOR MAY VARY THE SOUTH END ON LANE CLOSURE AS FEASIBLE TO MINIMIZE DISRUPTION TO 6TH AND 7TH STREET INTERSECTIONS. CONTRACTOR SHALL COORDINATE THE CHANGE IN LANE CLOSURE AREA WITH THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT. IF LANE CLOSURE AREA IS MODIFIED, CONTRACTOR SHALL ENSURE ALL MODIFICATIONS ARE IN ACCORDANCE WITH THE '2011 INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH REVISIONS 1 & 2 & 3'.

SCALE: 1"=100'

NOTE TO CONTRACTOR

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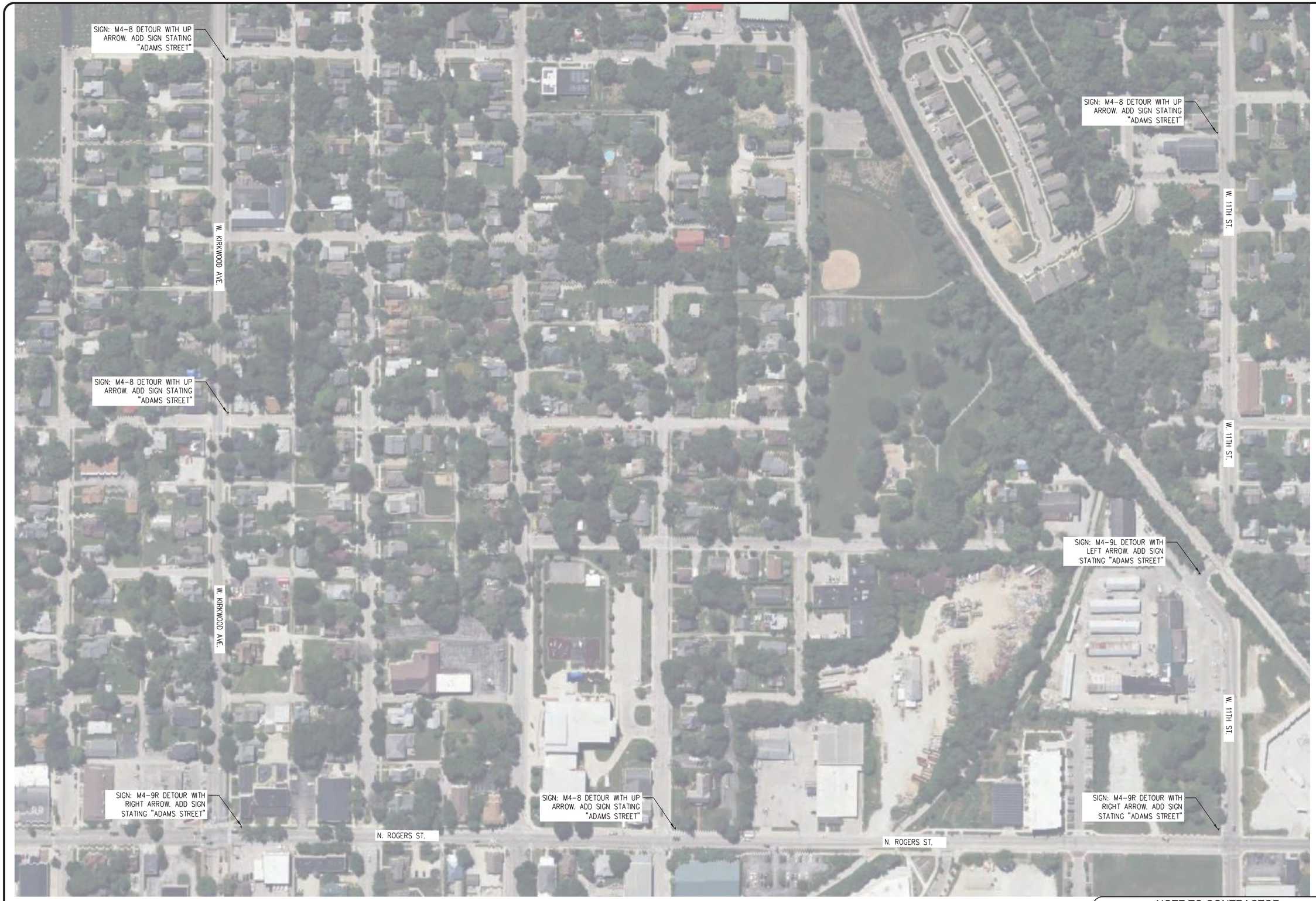
title: MAINTENANCE OF TRAFFIC PLAN (ROAD CLOSURE)

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C103
project no.: 402101



SCALE: 1"=100'

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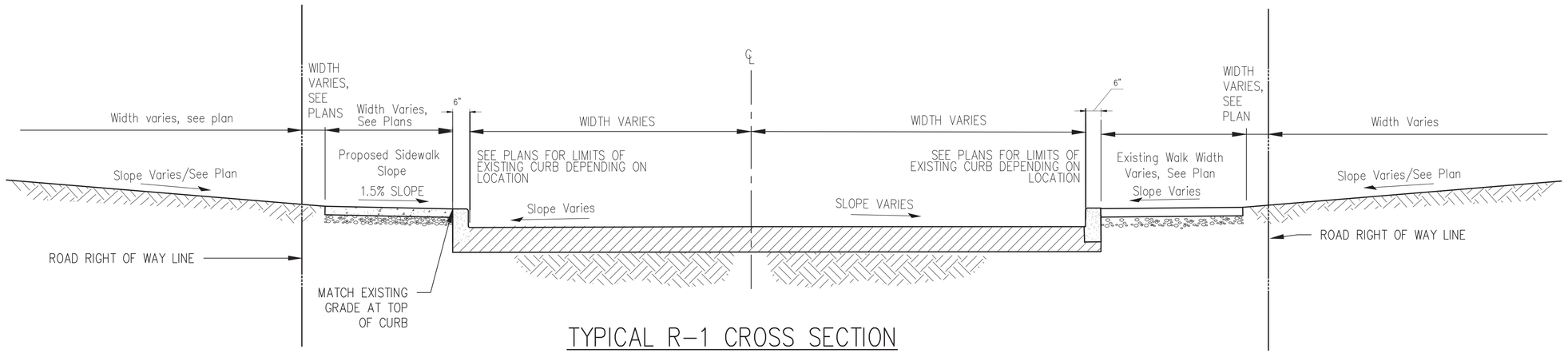
title: MAINTENANCE OF TRAFFIC PLAN (ROAD CLOSURE)

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C104
project no.: 402101



TYPICAL R-1 CROSS SECTION

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

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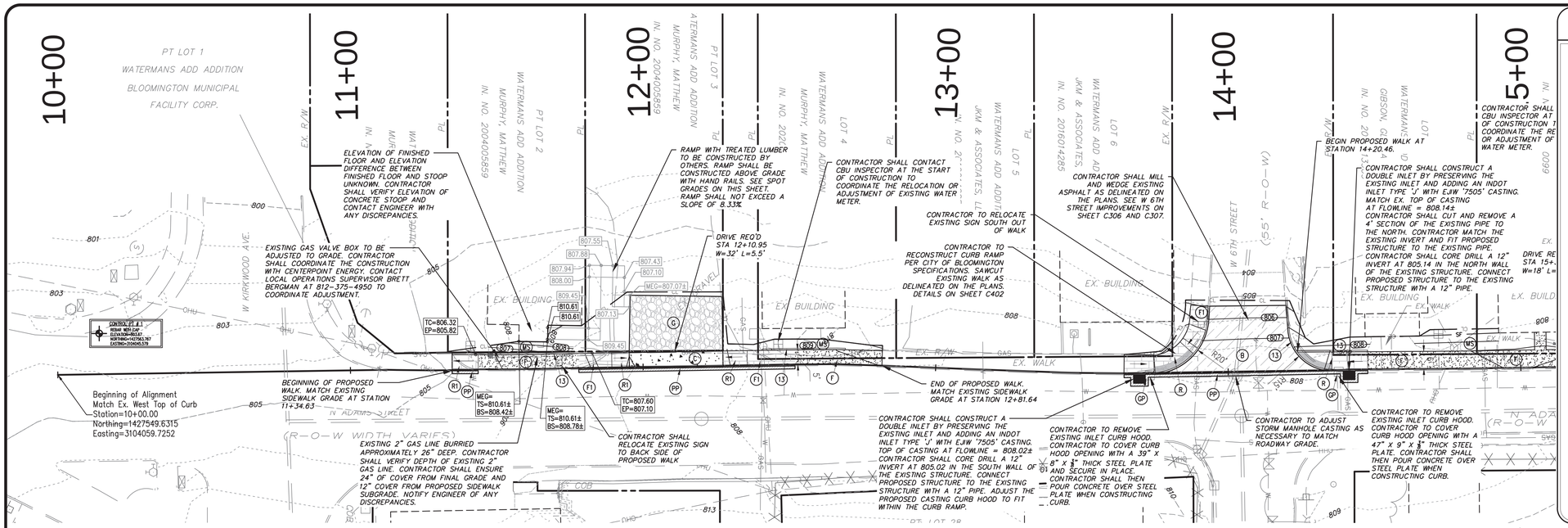
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1 TYPICAL CROSS SECTION

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C201
project no.: 402101



Beginning of Alignment
Match Ex. West Top of Curb
Station=10+00.00
Northing=1427549.6315
Easting=3104059.7252

ELEVATION OF FINISHED FLOOR AND ELEVATION DIFFERENCE BETWEEN FINISHED FLOOR AND STOOP UNKNOWN. CONTRACTOR SHALL VERIFY ELEVATION OF CONCRETE STOOP AND CONTACT ENGINEER WITH ANY DISCREPANCIES.

EXISTING GAS VALVE BOX TO BE ADJUSTED TO GRADE. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION WITH CENTERPOINT ENERGY. CONTACT LOCAL OPERATIONS SUPERVISOR BRETT BERGMAN AT 812-375-4950 TO COORDINATE ADJUSTMENT.

BEGINNING OF PROPOSED WALK. MATCH EXISTING SIDEWALK GRADE AT STATION 11+34.63

EXISTING 2" GAS LINE BURRIED APPROXIMATELY 26" DEEP. CONTRACTOR SHALL VERIFY DEPTH OF EXISTING 2" GAS LINE. CONTRACTOR SHALL ENSURE 24" OF COVER FROM FINAL GRADE AND 12" COVER FROM PROPOSED SIDEWALK SUBGRADE. NOTIFY ENGINEER OF ANY DISCREPANCIES.

RAMP WITH TREATED LUMBER TO BE CONSTRUCTED BY OTHERS. RAMP SHALL BE CONSTRUCTED ABOVE GRADE WITH HAND RAILS. SEE SPOT GRADES ON THIS SHEET. RAMP SHALL NOT EXCEED A SLOPE OF 8.33%.

CONTRACTOR SHALL RELOCATE EXISTING SIGN TO BACK SIDE OF PROPOSED WALK

CONTRACTOR SHALL CONTACT CBU INSPECTOR AT THE START OF CONSTRUCTION TO COORDINATE THE RELOCATION OR ADJUSTMENT OF EXISTING WATER METER.

CONTRACTOR TO RELOCATE EXISTING SIGN SOUTH OUT OF WALK

CONTRACTOR TO RECONSTRUCT CURB RAMP PER CITY OF BLOOMINGTON SPECIFICATIONS. SAWCUT EXISTING WALK AS DELINEATED ON THE PLANS. DETAILS ON SHEET C402

END OF PROPOSED WALK. MATCH EXISTING SIDEWALK GRADE AT STATION 12+81.64

CONTRACTOR SHALL CONSTRUCT A DOUBLE INLET BY PRESERVING THE EXISTING INLET AND ADDING AN INDOT INLET TYPE 'J' WITH EJIW '7505' CASTING. TOP OF CASTING AT FLOWLINE = 808.02± CONTRACTOR SHALL CORE DRILL A 12" INVERT AT 805.02 IN THE SOUTH WALL OF THE EXISTING STRUCTURE. CONNECT PROPOSED STRUCTURE TO THE EXISTING STRUCTURE WITH A 12" PIPE. ADJUST THE PROPOSED CASTING CURB HOOD TO FIT WITHIN THE CURB RAMP.

CONTRACTOR SHALL MILL AND WEDGE EXISTING ASPHALT AS DELINEATED ON THE PLANS. SEE W 6TH STREET IMPROVEMENTS ON SHEET C306 AND C307.

CONTRACTOR TO REMOVE EXISTING INLET CURB HOOD. CONTRACTOR TO COVER CURB HOOD OPENING WITH A 39" X 8" X 3/8" THICK STEEL PLATE AND SECURE IN PLACE. CONTRACTOR SHALL THEN POUR CONCRETE OVER STEEL PLATE WHEN CONSTRUCTING CURB.

CONTRACTOR TO ADJUST STORM MANHOLE CASTING AS NECESSARY TO MATCH ROADWAY GRADE.

BEGIN PROPOSED WALK AT STATION 14+20.46.

CONTRACTOR SHALL CONSTRUCT A DOUBLE INLET BY PRESERVING THE EXISTING INLET AND ADDING AN INDOT INLET TYPE 'J' WITH EJIW '7505' CASTING. MATCH EX. TOP OF CASTING AT FLOWLINE = 808.14± CONTRACTOR SHALL CUT AND REMOVE A 4' SECTION OF THE EXISTING PIPE TO THE NORTH. CONTRACTOR MATCH THE EXISTING INVERT AND FIT PROPOSED STRUCTURE TO THE EXISTING PIPE. CONTRACTOR SHALL CORE DRILL A 12" INVERT AT 805.14 IN THE NORTH WALL OF THE EXISTING STRUCTURE. CONNECT PROPOSED STRUCTURE TO THE EXISTING STRUCTURE WITH A 12" PIPE.

CONTRACTOR TO REMOVE EXISTING INLET CURB HOOD. CONTRACTOR TO COVER CURB HOOD OPENING WITH A 47" X 9" X 3/8" THICK STEEL PLATE. CONTRACTOR SHALL THEN POUR CONCRETE OVER STEEL PLATE WHEN CONSTRUCTING CURB.

CONTRACTOR SHALL
CBU INSPECTOR AT
OF CONSTRUCTION T
COORDINATE THE RE
OR ADJUSTMENT OF
WATER METER.

SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING - REFER TO DETAIL	▨
B	PROPOSED ROAD ASPHALT SURFACE	▨
C	PROPOSED DRIVEWAY CONCRETE PAVING	░
PP	PROPOSED PAVEMENT PATCH - REFER TO DETAIL	▨
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	▦
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	░
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL	▒
13	PROPOSED 6" STANDING CURB - REFER TO DETAIL	
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP - REFER TO DETAIL	
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" - REFER TO DETAIL	
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" - REFER TO DETAIL	
RW	PROPOSED RETAINING WALL- REFER TO DETAIL	
MS	MULCH SEEDING - REFER TO DETAIL	
GP	CURB INLET PROTECTION - REFER TO DETAIL	

EXISTING CONTOUR	- - - - XXX - - - -
PROPOSED CONTOUR	—XXX—
TEMPORARY SILT FENCE - REFER TO DETAIL	— SF —
CONSTRUCTION LIMITS	— CL —
PROPOSED SPOT GRADE ELEVATION	XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP-XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXX.XX±
ELEVATION AT TOP OF WALL	TW=XXX.XX
ELEVATION AT BOTTOM OF WALL	BW=XXX.XX
ELEVATION AT TOP OF STOOP	TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP	BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	—X—X—X—
EXISTING WATER LINE	— W —
EXISTING OVERHEAD UTILITY LINES	— OHU —
EXISTING UNDERGROUND ELECTRIC LINES	— UGE —
EXISTING UNDERGROUND TELEPHONE LINES	— UGT —
EXISTING UNDERGROUND FIBER OPTIC LINES	— FO —
EXISTING GAS LINE	— GAS —
EXISTING SANITARY FORCEMAIN	— FM —
EXISTING CONTOUR	- - - - XXX - - - -
FLOW LINE	►· · ►· · ►
EXISTING SANITARY SEWER AND MANHOLE	═══○═══
EXISTING STORM SEWER AND INLET	═══□═══
PROPERTY LINE	—— - - ——

NOTE TO CONTRACTOR:

CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

R-1 MATCH EX. WEST TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

BEGIN PROPOSED WALK AT STATION 11+34.63. MATCH EXISTING GRADE AT EDGE OF WALK.

PROPOSED GRADE/TOP OF CURB. MATCH EXISTING GRADE AT TOP OF CURB

EXISTING DRIVEWAY. MATCH EXISTING EDGE OF PAVEMENT.

END OF PROPOSED WALK. CONNECT TO EXISTING WALK AT STATION 12+81.64. MATCH EXISTING GRADE AT EDGE OF WALK.

SEE SHEET C306 & C307 FOR PLAN AND PROFILING FOR THIS AREA

EXISTING GRADE/TOP OF CURB

W 6TH STREET INTERSECTION.

BEGIN PROPOSED WALK ON THIS PROFILE AT STATION 14+47.70. MATCH EXISTING GRADE AT TOP OF CURB

PROPOSED GRADE/TOP OF CURB. MATCH EXISTING GRADE AT TOP OF CURB

NOTE TO CONTRACTOR

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revisions:

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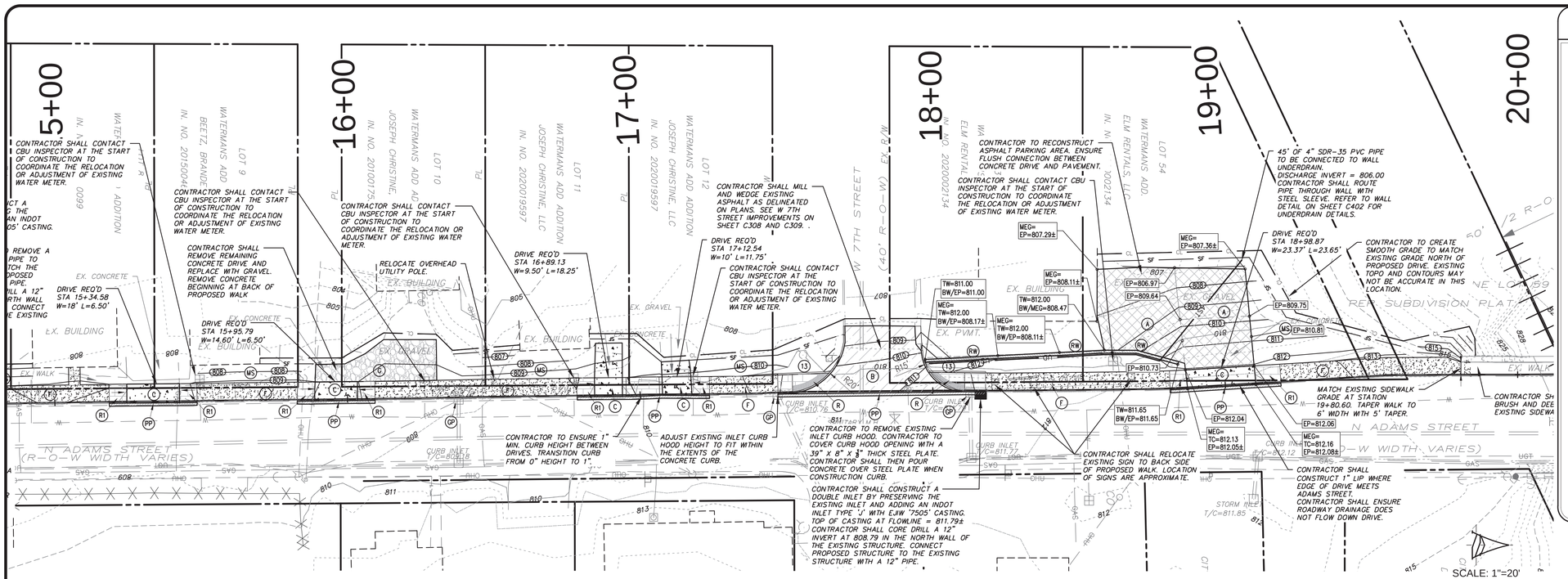
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23

certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1 EX. WEST TOP OF CURB PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C301
project no.: 402101



SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL	
B	PROPOSED ROAD ASPHALT SURFACE	
C	PROPOSED DRIVEWAY CONCRETE PAVING	
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL	
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL	
I3	PROPOSED 8" STANDING CURB – REFER TO DETAIL	
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL	
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL	
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL	
RW	PROPOSED RETAINING WALL– REFER TO DETAIL	
MS	MULCH SEEDING – REFER TO DETAIL	
GP	CURB INLET PROTECTION – REFER TO DETAIL	

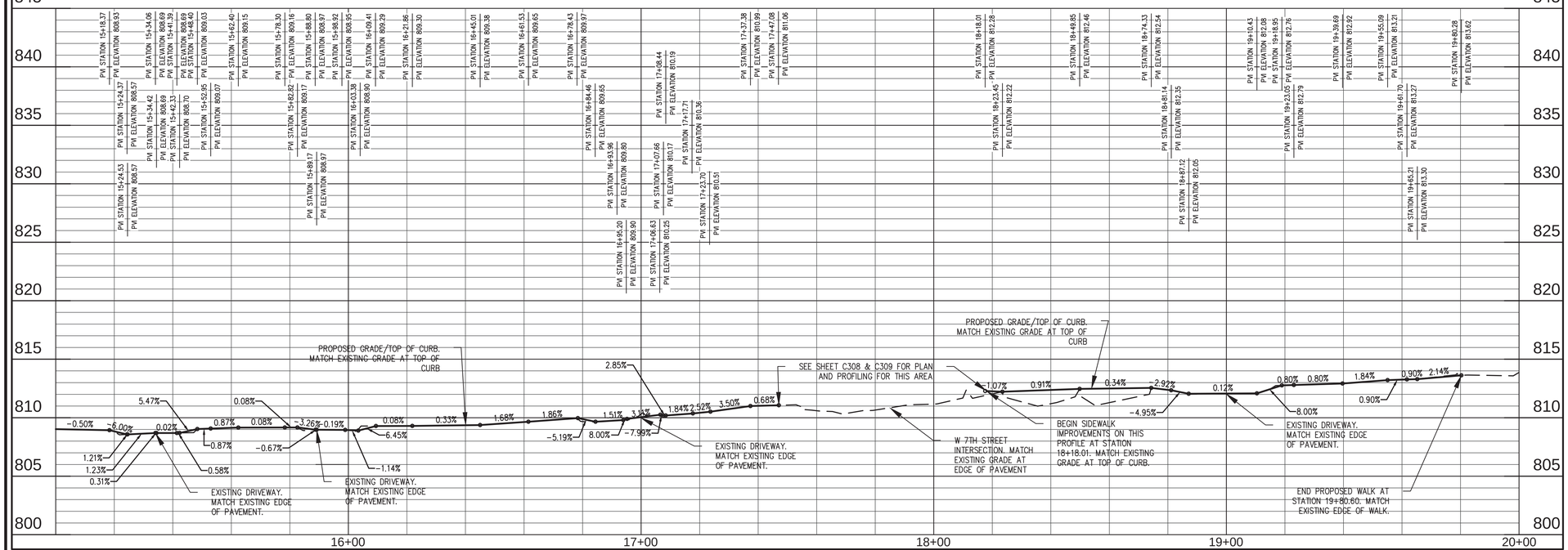
EXISTING CONTOUR — XXX
PROPOSED CONTOUR — XXX
TEMPORARY SILT FENCE – REFER TO DETAIL — SF
CONSTRUCTION LIMITS — CL
PROPOSED SPOT GRADE ELEVATION — XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION; EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB — TC=XXX.XX, EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE — EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES — MEG=XXX.XX±
ELEVATION AT TOP OF WALL — TW=XXX.XX
ELEVATION AT BOTTOM OF WALL — BW=XXX.XX
ELEVATION AT TOP OF STOOP — TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP — BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE — X X X
EXISTING WATER LINE — W
EXISTING OVERHEAD UTILITY LINES — OHU
EXISTING UNDERGROUND ELECTRIC LINES — UGE
EXISTING UNDERGROUND TELEPHONE LINES — UGT
EXISTING UNDERGROUND FIBER OPTIC LINES — FO
EXISTING GAS LINE — GAS
EXISTING SANITARY FORCEMAIN — FM
EXISTING CONTOUR — XXX
FLOW LINE
EXISTING SANITARY SEWER AND MANHOLE
EXISTING STORM SEWER AND INLET
PROPERTY LINE

R-1 MATCH EX. WEST TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



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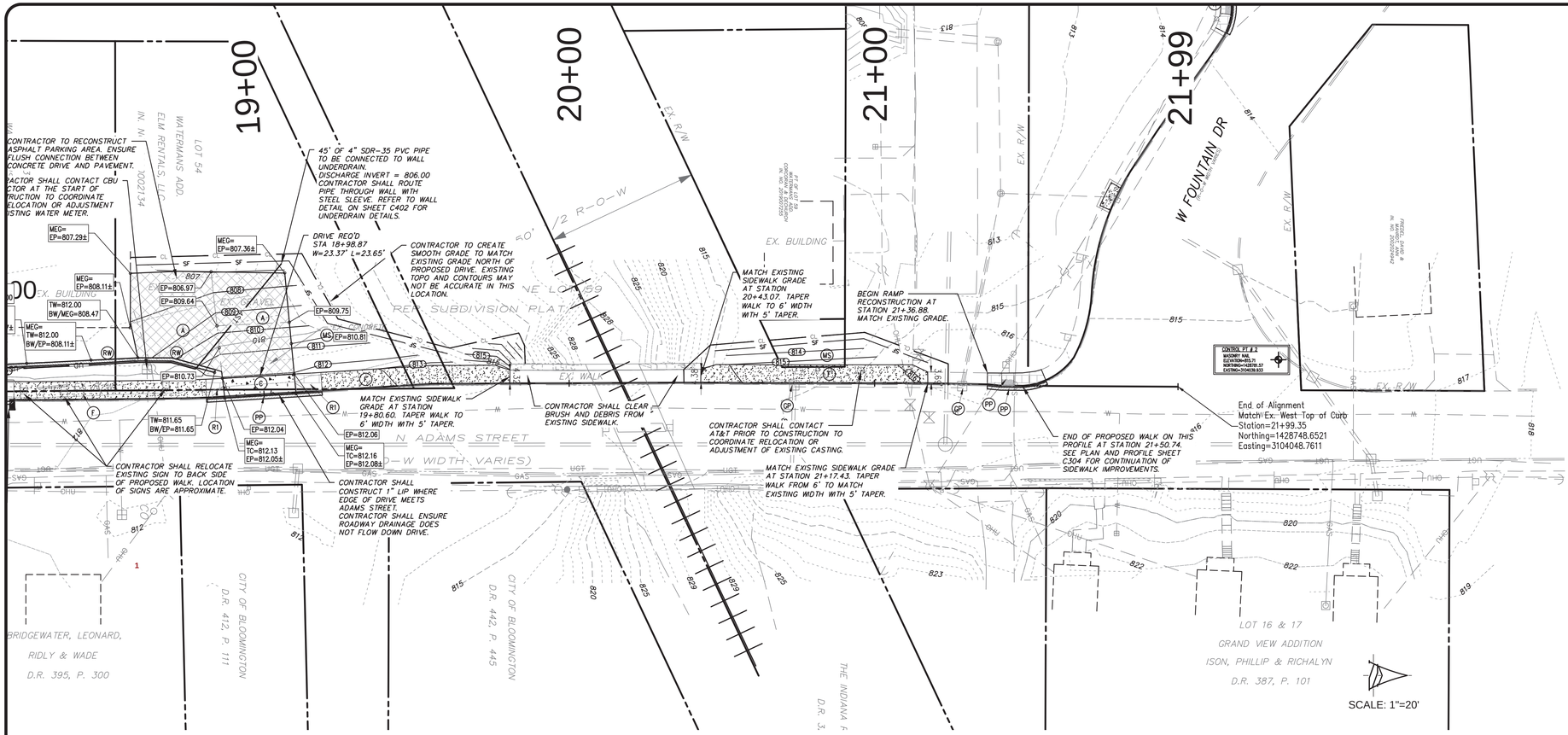
JEFFREY S. FANYO No. 60018283 STATE OF INDIANA PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1 EX. WEST TOP OF CURB PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C302
project no.: 402101



SITE IMPROVEMENT LEGEND

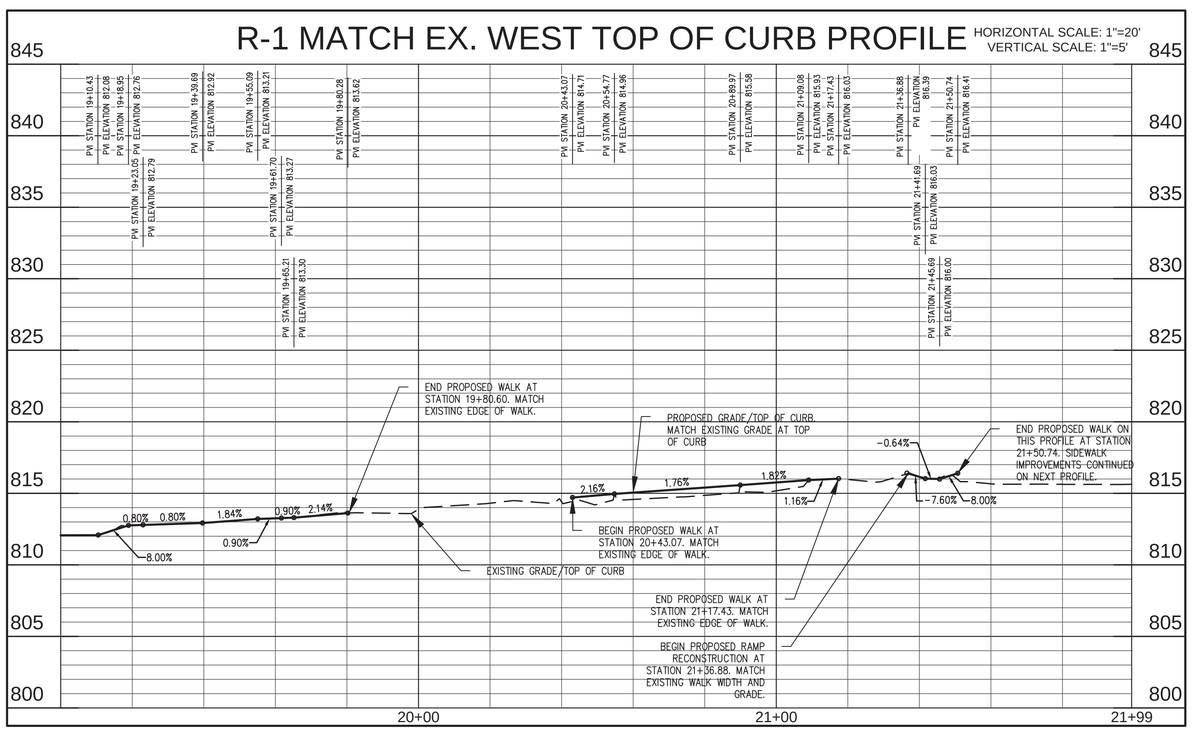
(A)	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
(B)	PROPOSED ROAD ASPHALT SURFACE
(C)	PROPOSED DRIVEWAY CONCRETE PAVING
(PP)	PROPOSED PAVEMENT PATCH – REFER TO DETAIL
(F1)	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
(F)	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
(G)	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
(13)	PROPOSED 6" STANDING CURB – REFER TO DETAIL
(R)	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL
(R1)	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL
(R2)	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL
(RW)	PROPOSED RETAINING WALL– REFER TO DETAIL
(MS)	MULCH SEEDING – REFER TO DETAIL
(DP)	CURB INLET PROTECTION – REFER TO DETAIL
EXISTING CONTOUR	XXX
PROPOSED CONTOUR	XXX
TEMPORARY SILT FENCE – REFER TO DETAIL	SF
CONSTRUCTION LIMITS	CL
PROPOSED SPOT GRADE ELEVATION	XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXX.XX±
ELEVATION AT TOP OF WALL	TW=XXX.XX
ELEVATION AT BOTTOM OF WALL	BW=XXX.XX
ELEVATION AT TOP OF STOOP	TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP	BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

R-1 MATCH EX. WEST TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



NOTE TO CONTRACTOR:
CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
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bloomington, indiana
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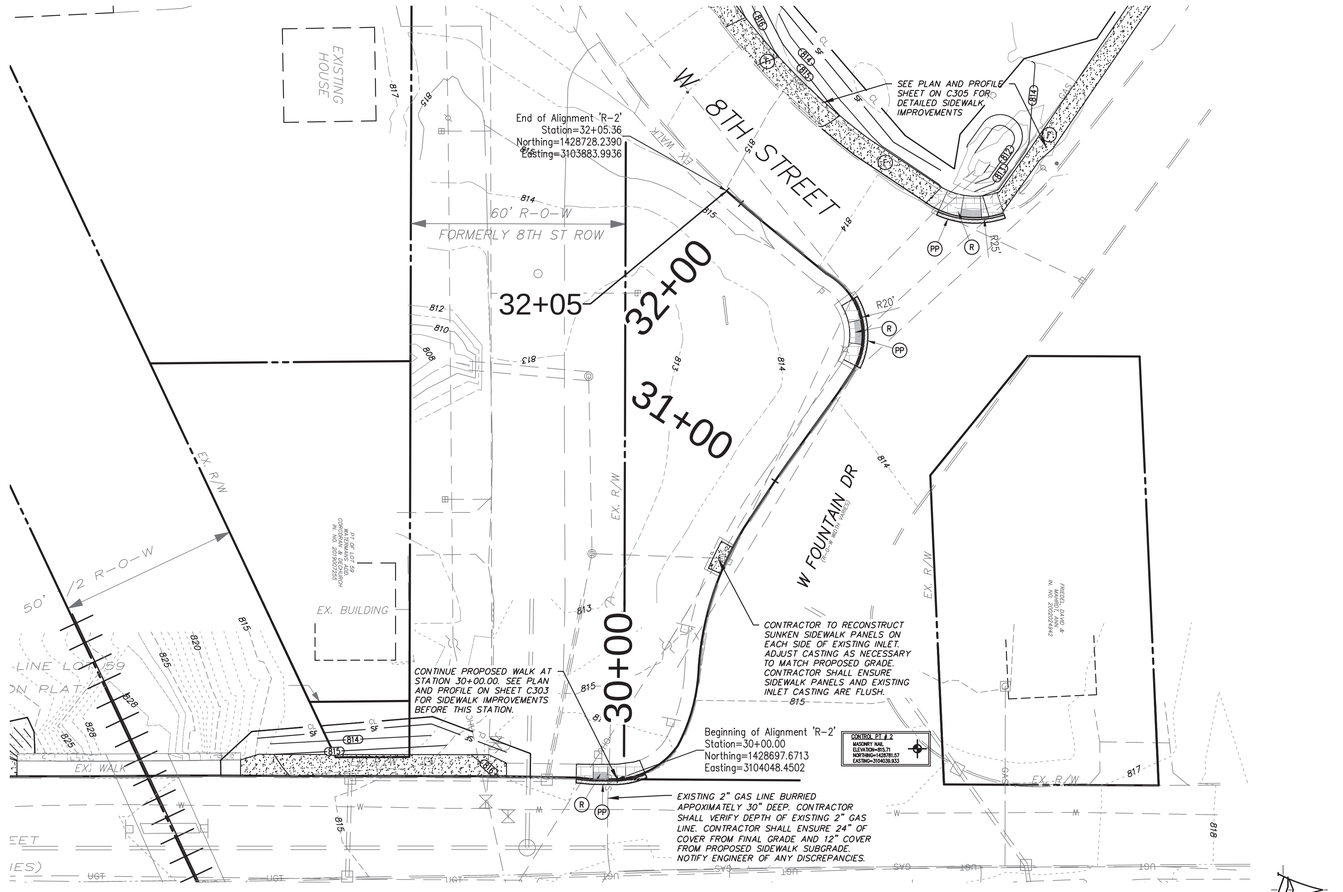
(812) 339-2990 (Fax)

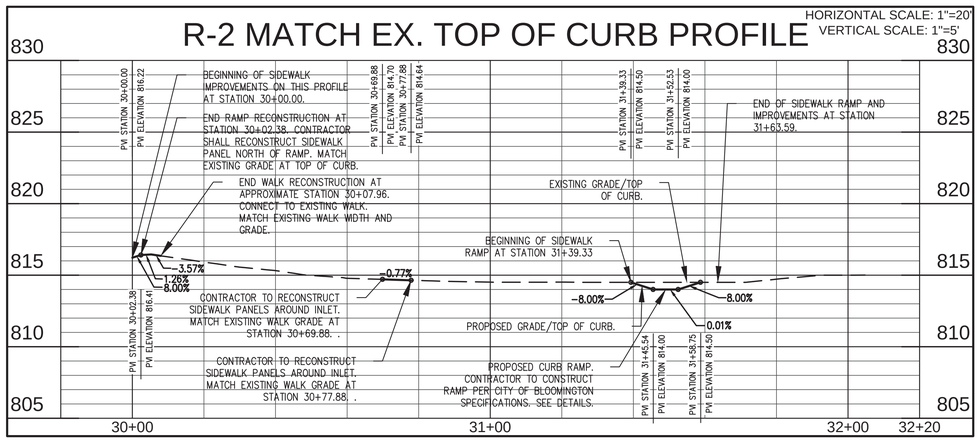
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1 EX. WEST TOP OF CURB PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C303
project no.: 402101





SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
B	PROPOSED ROAD ASPHALT SURFACE
C	PROPOSED DRIVEWAY CONCRETE PAVING
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
I3	PROPOSED 6" STANDING CURB – REFER TO DETAIL
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL
RW	PROPOSED RETAINING WALL– REFER TO DETAIL
MS	MULCH SEEDING – REFER TO DETAIL
GP	CURB INLET PROTECTION – REFER TO DETAIL
	EXISTING CONTOUR — XXX —
	PROPOSED CONTOUR — XXX —
	TEMPORARY SILT FENCE – REFER TO DETAIL — SF —
	CONSTRUCTION LIMITS — CL —
	PROPOSED SPOT GRADE ELEVATION — XXX.XX
	TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB — TC=XXX.XX EP=XXX.XX
	FINISH EDGE OF PAVEMENT AT GRADE — EP=XXX.XX
	MATCH THE EXISTING'S CONDITIONS GRADE'S ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES — MEG=XXX.XX±
	ELEVATION AT TOP OF WALL — TW=XXX.XX
	ELEVATION AT BOTTOM OF WALL — BW=XXX.XX
	ELEVATION AT TOP OF STOOP — TS=XXX.XX
	ELEVATION AT BOTTOM OF STOOP — BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:
CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

NOTE TO CONTRACTOR

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revisions:

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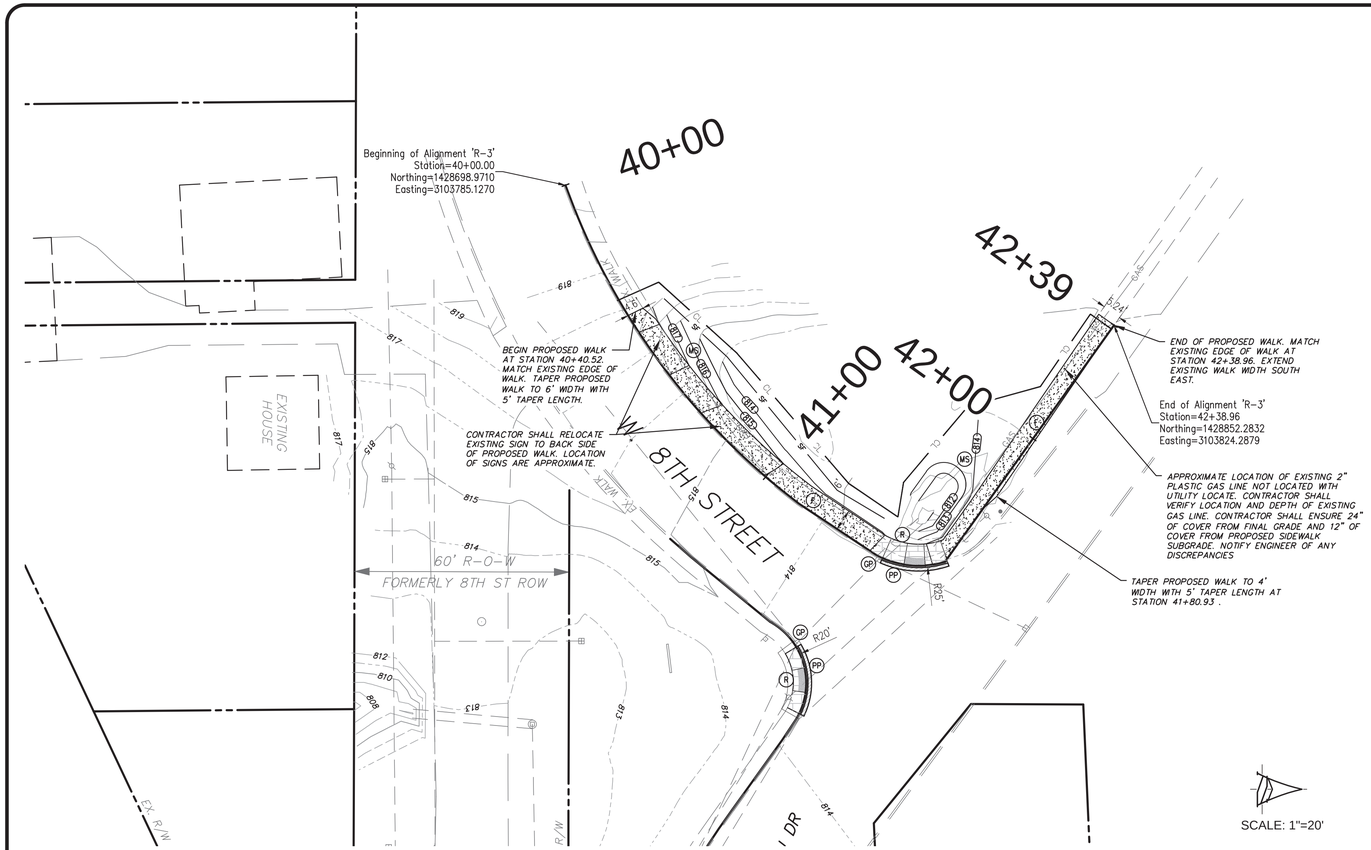
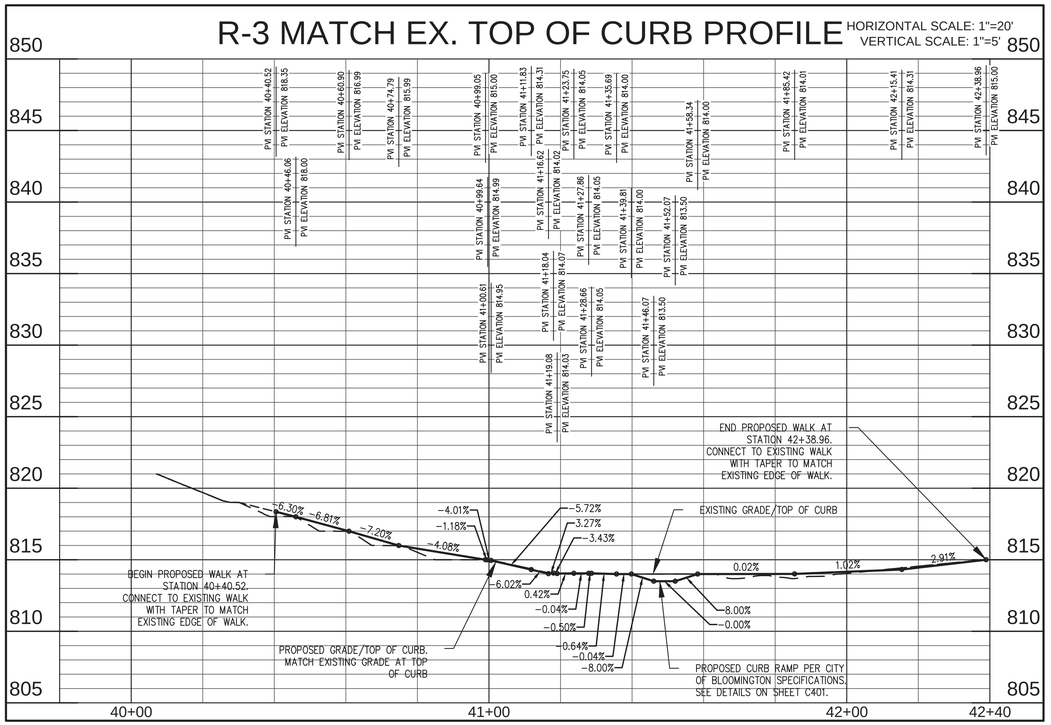
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-2 PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C304
project no.: 402101





SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING - REFER TO DETAIL	
B	PROPOSED ROAD ASPHALT SURFACE	
C	PROPOSED DRIVEWAY CONCRETE PAVING	
PP	PROPOSED PAVEMENT PATCH - REFER TO DETAIL	
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL	
1.3	PROPOSED 6" STANDING CURB - REFER TO DETAIL	
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP - REFER TO DETAIL	
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" - REFER TO DETAIL	
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" - REFER TO DETAIL	
RW	PROPOSED RETAINING WALL- REFER TO DETAIL	
MS	MULCH SEEDING - REFER TO DETAIL	
DP	CURB INLET PROTECTION - REFER TO DETAIL	
EXISTING CONTOUR		XXX
PROPOSED CONTOUR		XXX
TEMPORARY SILT FENCE - REFER TO DETAIL		SF
CONSTRUCTION LIMITS		CL
PROPOSED SPOT GRADE ELEVATION		XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB		TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE		EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES		MEG=XXX.XX±
ELEVATION AT TOP OF WALL		TW=XXX.XX
ELEVATION AT BOTTOM OF WALL		BW=XXX.XX
ELEVATION AT TOP OF STOOP		TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP		BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:
CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

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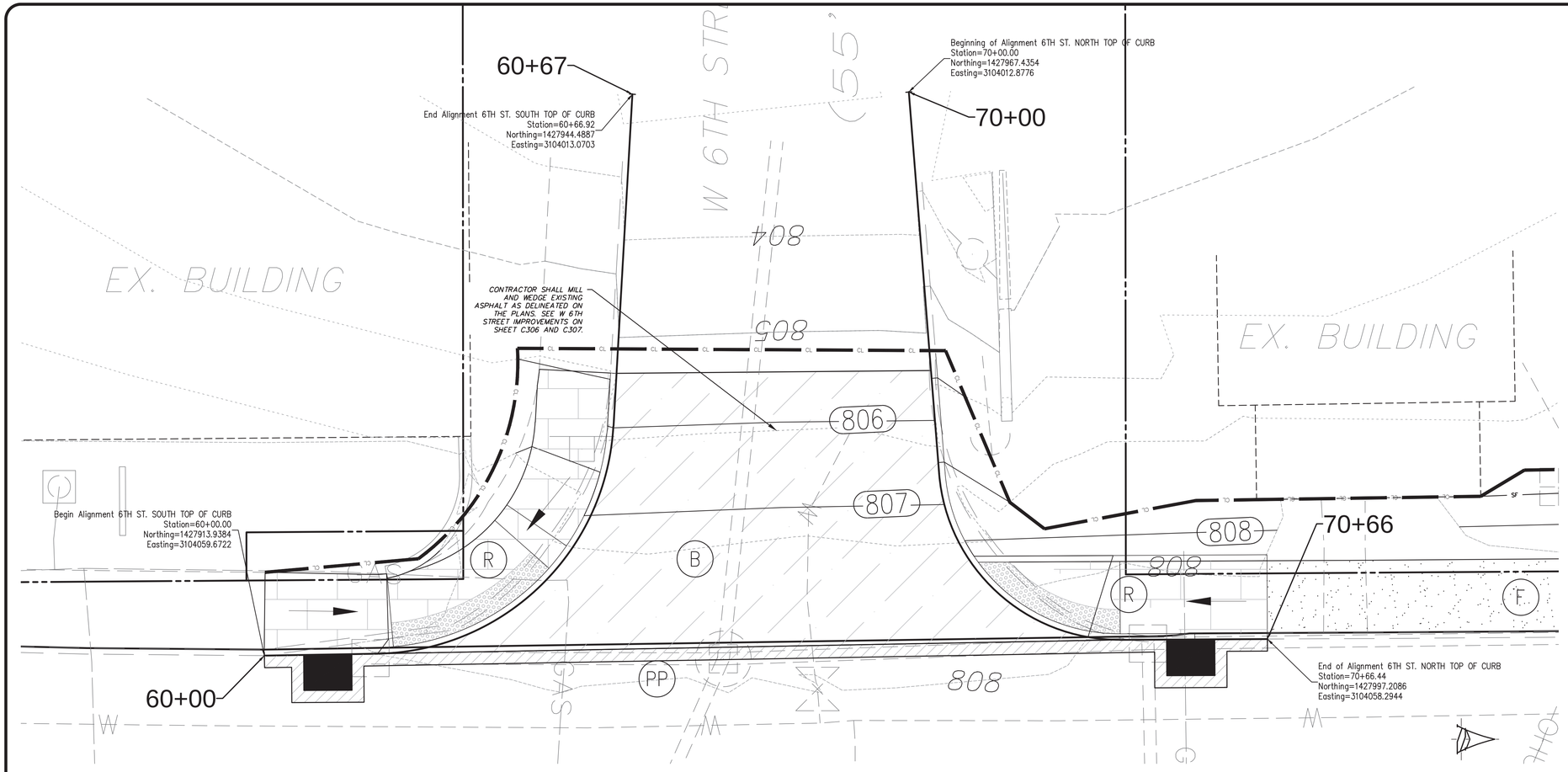
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-3 PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C305
project no.: 402101



SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL	
B	PROPOSED ROAD ASPHALT SURFACE	
C	PROPOSED DRIVEWAY CONCRETE PAVING	
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL	
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL	
1.3	PROPOSED 6" STANDING CURB – REFER TO DETAIL	
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL	
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL	
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL	
RW	PROPOSED RETAINING WALL– REFER TO DETAIL	
MS	MULCH SEEDING – REFER TO DETAIL	
CP	CURB INLET PROTECTION – REFER TO DETAIL	
EXISTING CONTOUR		XXX
PROPOSED CONTOUR		XXX
TEMPORARY SILT FENCE – REFER TO DETAIL		SF
CONSTRUCTION LIMITS		CL
PROPOSED SPOT GRADE ELEVATION		XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB		TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE		EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES		MEG=XXX.XX±
ELEVATION AT TOP OF WALL		TW=XXX.XX
ELEVATION AT BOTTOM OF WALL		BW=XXX.XX
ELEVATION AT TOP OF STOOP		TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP		BS=XXX.XX

EXISTING LEGEND

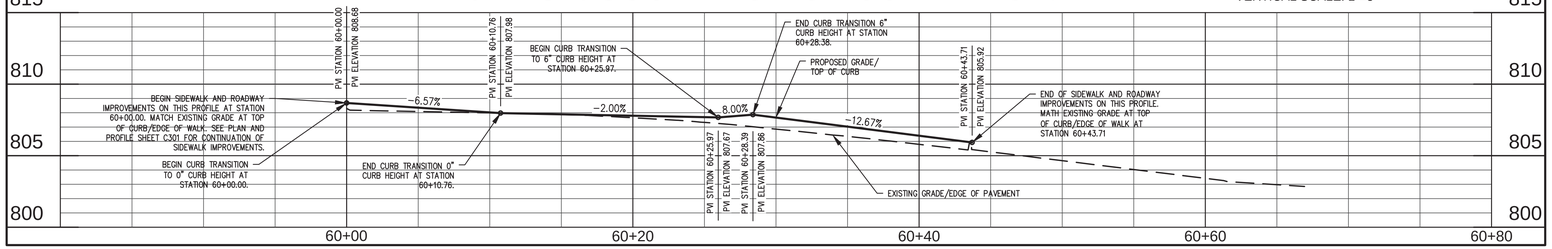
EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:

CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

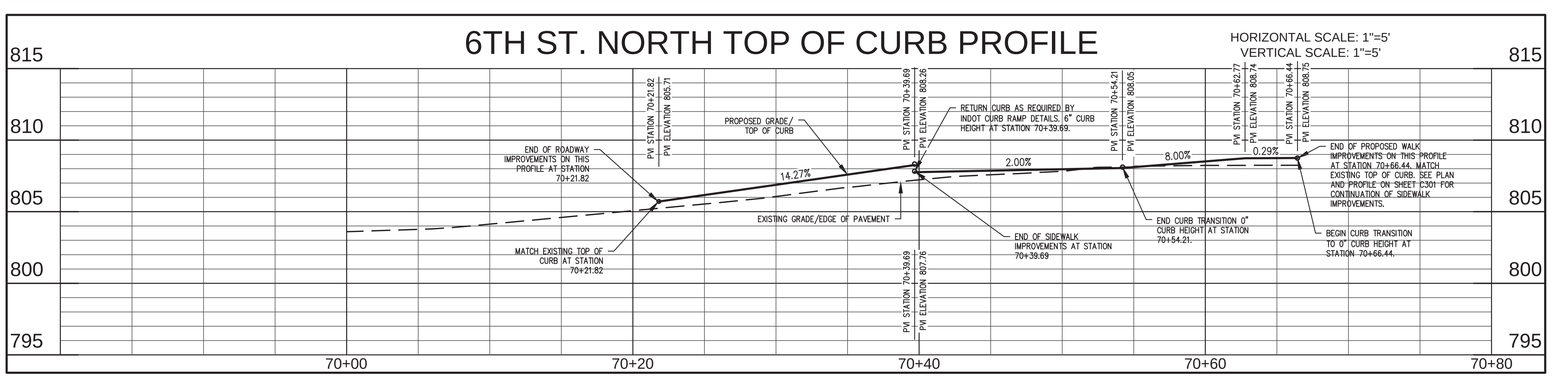
6TH ST. SOUTH TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



6TH ST. NORTH TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



NOTE TO CONTRACTOR

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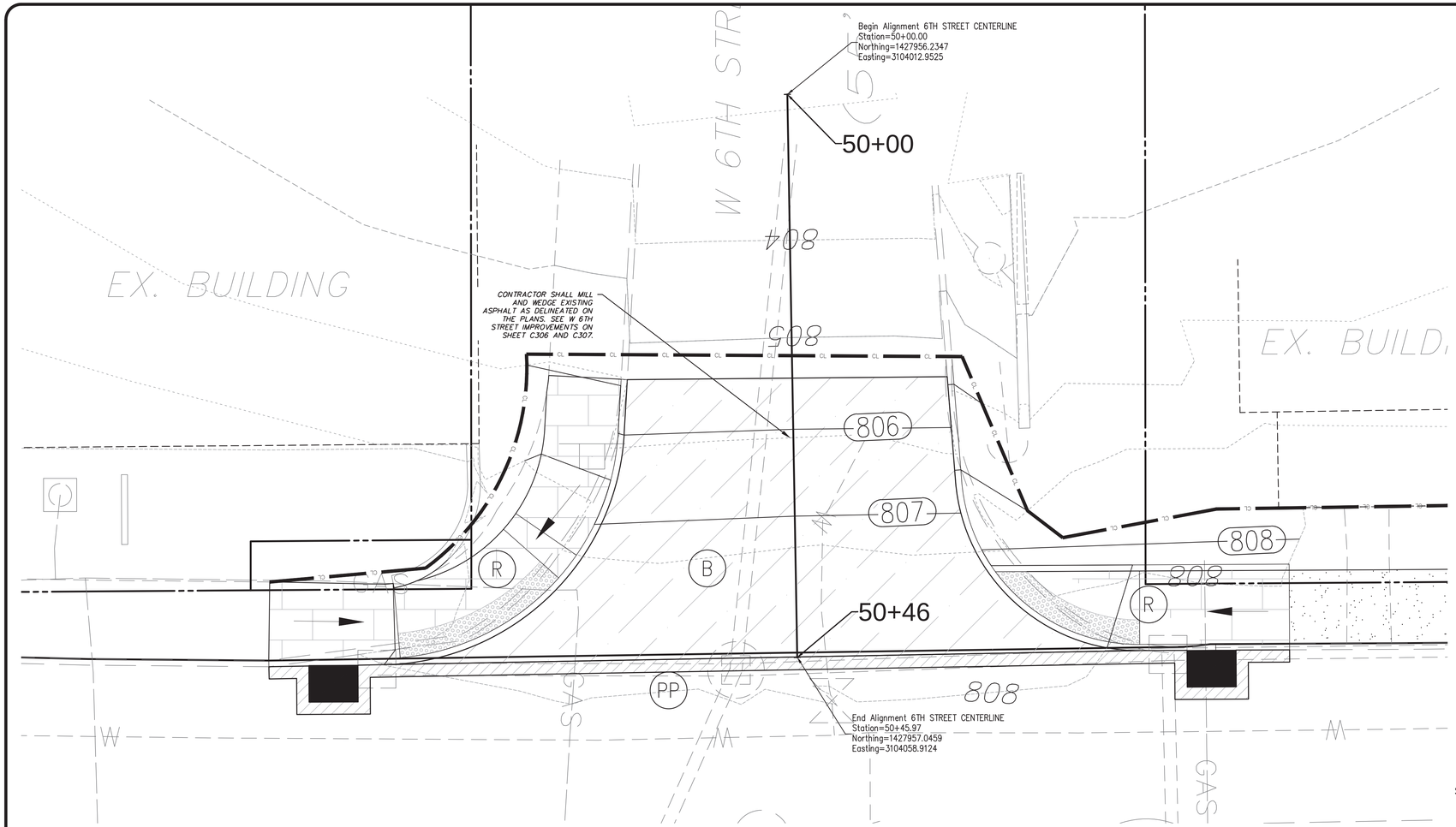
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23

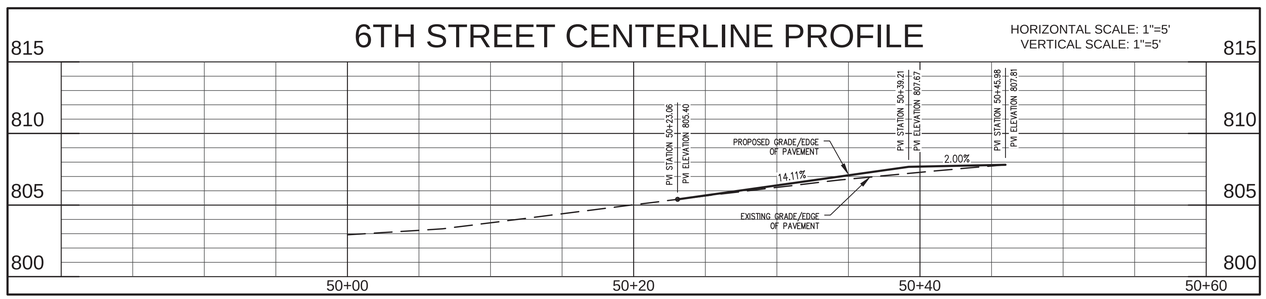
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: 6TH STREET INTERSECTION PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C306
project no.: 402101





SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL	
B	PROPOSED ROAD ASPHALT SURFACE	
C	PROPOSED DRIVEWAY CONCRETE PAVING	
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL	
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL	
1.3	PROPOSED 6" STANDING CURB – REFER TO DETAIL	
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL	
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL	
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL	
RW	PROPOSED RETAINING WALL– REFER TO DETAIL	
MS	MULCH SEEDING – REFER TO DETAIL	
CP	CURB INLET PROTECTION – REFER TO DETAIL	
EXISTING CONTOUR		XXX
PROPOSED CONTOUR		XXX
TEMPORARY SILT FENCE – REFER TO DETAIL		SF
CONSTRUCTION LIMITS		CL
PROPOSED SPOT GRADE ELEVATION		XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB		TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE		EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES		MEG=XXX.XX±
ELEVATION AT TOP OF WALL		TW=XXX.XX
ELEVATION AT BOTTOM OF WALL		BW=XXX.XX
ELEVATION AT TOP OF STOOP		TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP		BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:
CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

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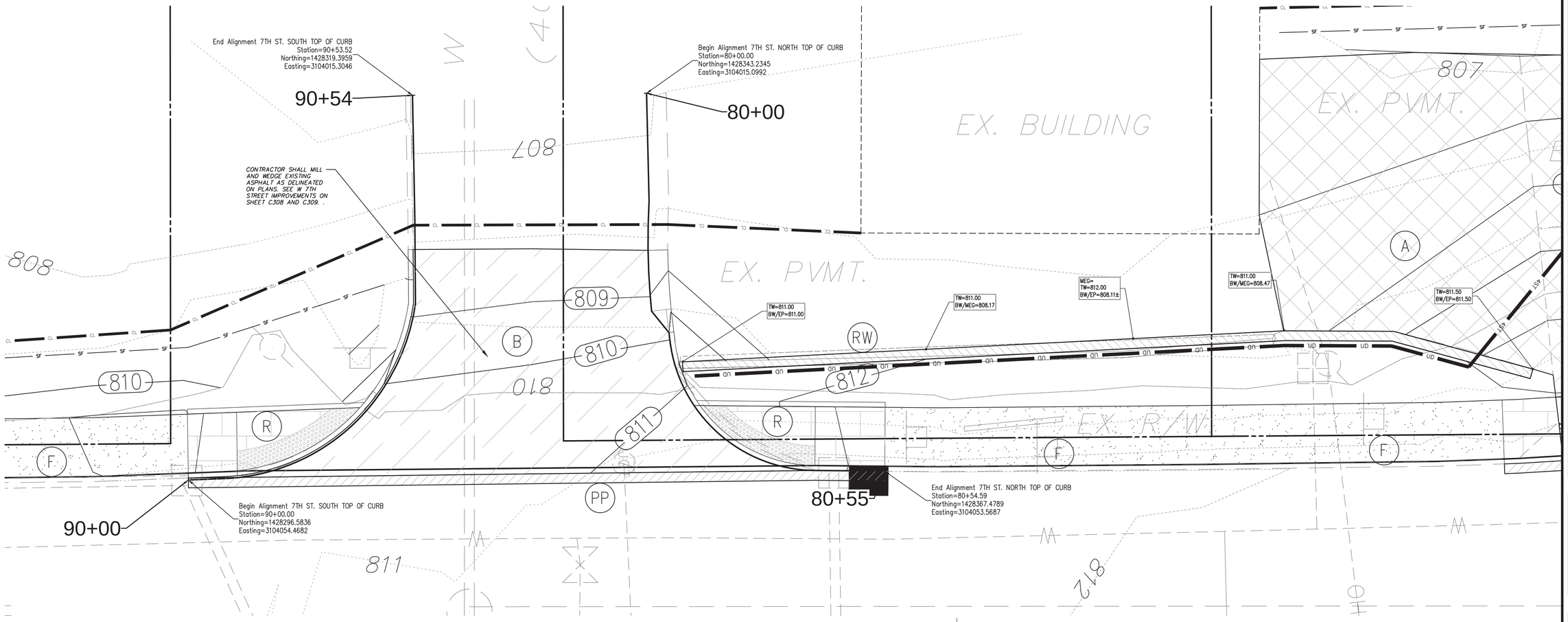
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: 6TH STREET INTERSECTION PLAN AND PROFILE

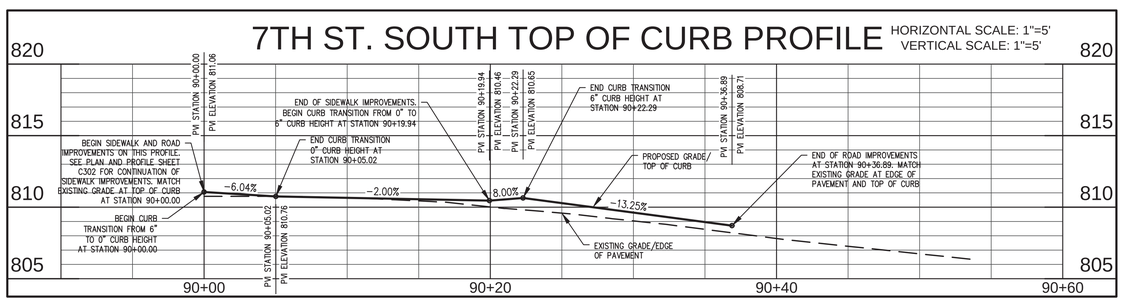
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C307
project no.: 402101



SCALE: 1"=5'

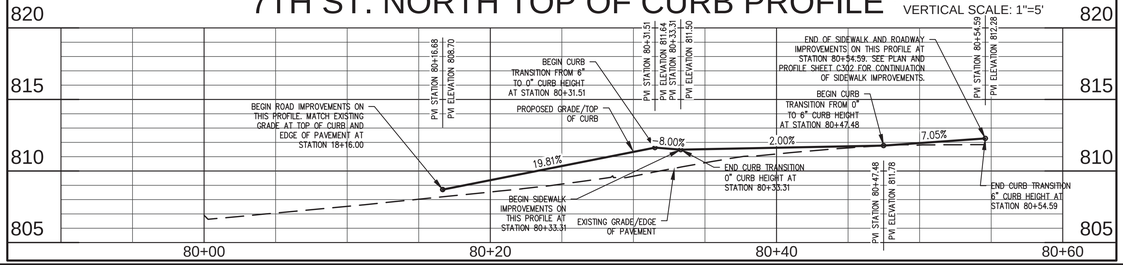
7TH ST. SOUTH TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



7TH ST. NORTH TOP OF CURB PROFILE

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
B	PROPOSED ROAD ASPHALT SURFACE
C	PROPOSED DRIVEWAY CONCRETE PAVING
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
13	PROPOSED 6" STANDING CURB – REFER TO DETAIL
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL
RW	PROPOSED RETAINING WALL– REFER TO DETAIL
MS	MULCH SEEDING – REFER TO DETAIL
CP	CURB INLET PROTECTION – REFER TO DETAIL
	EXISTING CONTOUR
	PROPOSED CONTOUR
	TEMPORARY SILT FENCE – REFER TO DETAIL
	CONSTRUCTION LIMITS
PROPOSED SPOT GRADE ELEVATION	XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXX.XX±
ELEVATION AT TOP OF WALL	TW=XXX.XX
ELEVATION AT BOTTOM OF WALL	BW=XXX.XX
ELEVATION AT TOP OF STOOP	TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP	BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:
CONTRACTOR SHALL REMOVE ALL VEGETATION UP TO A HEIGHT OF 7' ABOVE THE SIDEWALK WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL ENSURE THERE IS NO VEGETATION OBSTRUCTING THE PROPOSED OR EXISTING SIDEWALK WITHIN THE PROJECT LIMITS.

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

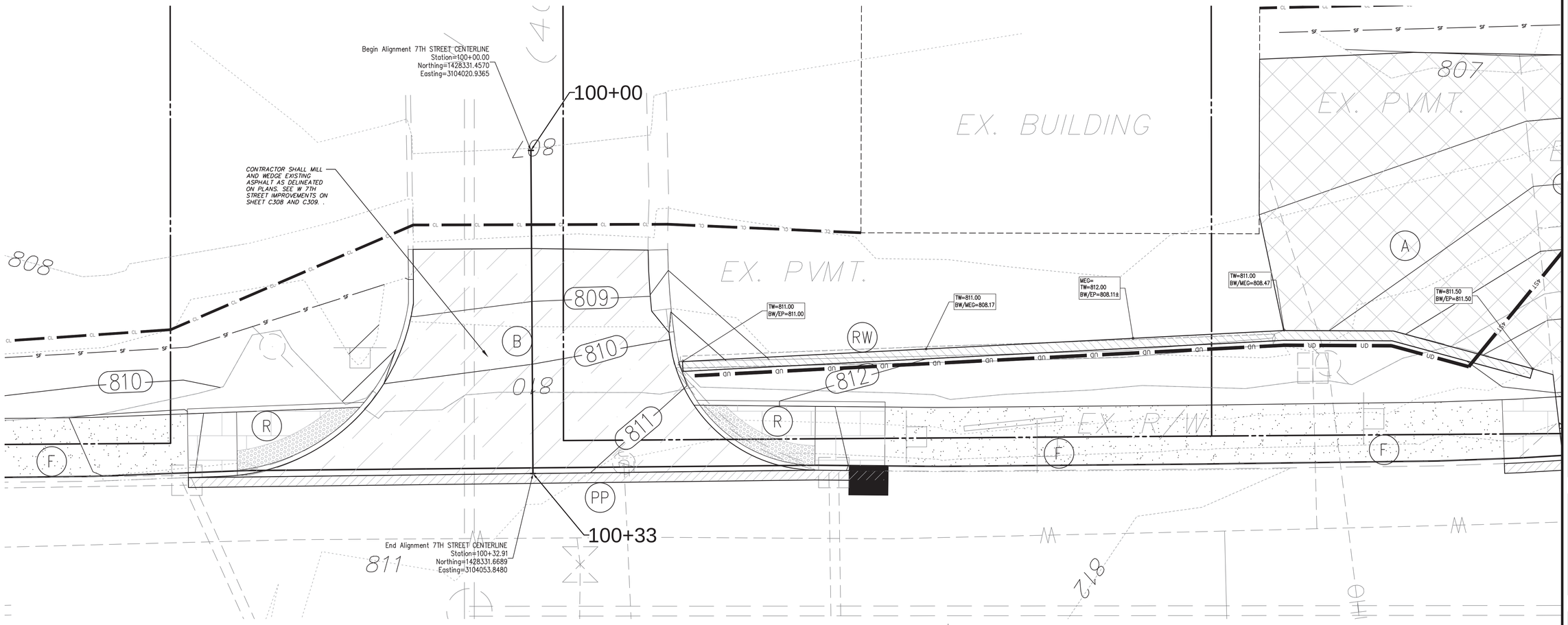
ARCHITECTURE
CIVIL ENGINEERING
PLANNING
BYNUM FANYO & ASSOCIATES, INC.
528 north walnut street
(812) 332-8030
bloomington, indiana
(812) 339-2990 (Fax)

JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

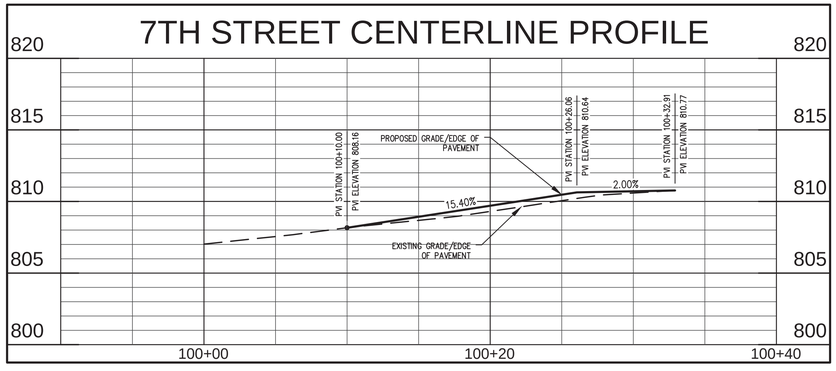
title: 7TH STREET INTERSECTION PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C308
project no.: 402101



SCALE: 1"=5'

7TH STREET CENTERLINE PROFILE



HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'

SITE IMPROVEMENT LEGEND

A	PROPOSED ROAD BITUMINOUS PAVING – REFER TO DETAIL
B	PROPOSED ROAD ASPHALT SURFACE
C	PROPOSED DRIVEWAY CONCRETE PAVING
PP	PROPOSED PAVEMENT PATCH – REFER TO DETAIL
F1	PROPOSED MONOLITHIC CURB AND WALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
F	PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.
G	PROPOSED GRAVEL RECONSTRUCTION. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL
13	PROPOSED 6" STANDING CURB – REFER TO DETAIL
R	PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP – REFER TO DETAIL
R1	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "H" – REFER TO DETAIL
R2	PROPOSED SIDEWALK ACCESSIBLE RAMP, TYPE "G" – REFER TO DETAIL
RW	PROPOSED RETAINING WALL– REFER TO DETAIL
MS	MULCH SEEDING – REFER TO DETAIL
CP	CURB INLET PROTECTION – REFER TO DETAIL
EXISTING CONTOUR	XXX
PROPOSED CONTOUR	XXX
TEMPORARY SILT FENCE – REFER TO DETAIL	SF
CONSTRUCTION LIMITS	CL
PROPOSED SPOT GRADE ELEVATION	XXX.XX
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP=XXX.XX
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXX.XX±
ELEVATION AT TOP OF WALL	TW=XXX.XX
ELEVATION AT BOTTOM OF WALL	BW=XXX.XX
ELEVATION AT TOP OF STOOP	TS=XXX.XX
ELEVATION AT BOTTOM OF STOOP	BS=XXX.XX

EXISTING LEGEND

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	XXX
FLOW LINE	
EXISTING SANITARY SEWER AND MANHOLE	
EXISTING STORM SEWER AND INLET	
PROPERTY LINE	

NOTE TO CONTRACTOR:
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NOTE TO CONTRACTOR

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revisions:

ARCHITECTURE
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JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: 7TH STREET INTERSECTION PLAN AND PROFILE

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C309
project no.: 402101

revisions:

BBA ARCHITECTURE CIVIL ENGINEERING PLANNING
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JEFFREY S. FANYO — No. 60018283 — STATE OF — INDIANA — PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

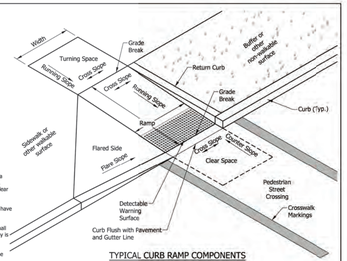
title: MISCELLANEOUS DETAILS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C401
project no.: 402101

INDEX

GENERAL NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
3. Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
4. Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
5. Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent the roadway is tapered to meet the flush curb at the bottom of the ramp.
6. Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
7. Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
8. Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
   a. A running slope of 2.00% or less is considered level.
   b. A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
   c. A blended transition shall have a maximum running slope of 5.00%.
   d. A turning space shall have a maximum running slope of 2.00%.
9. Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
10. Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in. the surface shall be beveled with a slope not steeper than 1V:2H.
11. Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
    a. The maximum cross slope at a pedestrian street crossing without yield or stop control shall be 5.00%.
    b. The maximum cross slope at a pedestrian street crossing with yield or stop control shall be 2.00%.
    c. The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
12. Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
13. Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
14. Curb ramps shall be placed within the marked crosswalk area.
15. Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.



TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

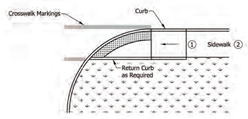
CURB RAMP DRAWING INDEX
AND GENERAL NOTES

SEPTEMBER 2018

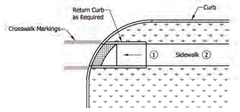
STANDARD DRAWING NO. E 604-SWCR-01

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/20/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP ADJACENT CURB



ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP WITH BUFFER

NOTES:

① A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.

② Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

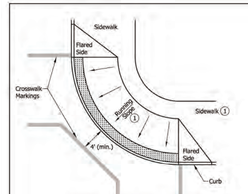
ONE-WAY DIRECTIONAL
PERPENDICULAR CURB RAMP
TYPICAL PLACEMENT

SEPTEMBER 2016

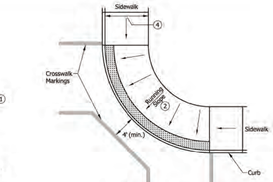
STANDARD DRAWING NO. E 604-SWCR-05

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/15/16 DATE
/s/ Mark A. Miller	CHIEF ENGINEER	03/18/16 DATE



BLENDED TRANSITION CURB RAMP WITH RUNNING SLOPE > 2.00%



BLENDED TRANSITION CURB RAMP WITH RUNNING SLOPE ≤ 2.00%

NOTES:

① Where the running slope is greater than 2.00%, a 4-ft minimum sidewalk shall continue behind the blended transition. The running slope shall not exceed 5.00%.

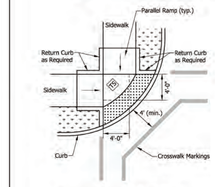
② Where the running slope is less than or equal to 2.00% a 4-ft minimum sidewalk is not required behind the blended transition.

③ A diagonal curb ramp shall not be used for new construction. For an alteration project, a diagonal curb ramp shall be used only where existing physical conditions prevent paired curb ramps, a blended transition curb ramp, or a depressed corner curb ramp from being provided.

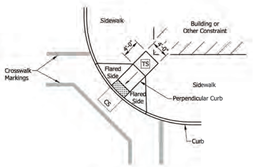
④ Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- TS Turning Space
- CS Clear Space



DEPRESSED CORNER CURB RAMP



DIAGONAL CURB RAMP ③

INDIANA DEPARTMENT OF TRANSPORTATION

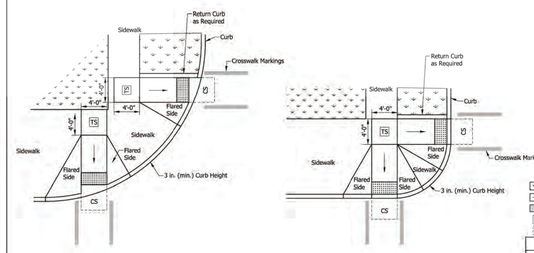
BLENDED TRANSITION CURB RAMP,
DEPRESSED CURB RAMP AND DIAGONAL
CURB RAMP TYPICAL PLACEMENT

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-09

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/29/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE



PAIRED PERPENDICULAR CURB RAMPS AT LARGE RADIUS

PAIRED PERPENDICULAR CURB RAMPS AT SMALL RADIUS

NOTE:

1. The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- TS Turning Space
- CS Clear Space

INDIANA DEPARTMENT OF TRANSPORTATION

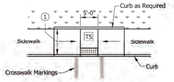
PAIRED PERPENDICULAR CURB RAMPS
TYPICAL PLACEMENT

SEPTEMBER 2016

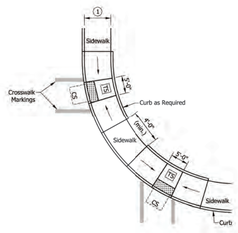
STANDARD DRAWING NO. E 604-SWCR-03

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/15/16 DATE
/s/ Mark A. Miller	CHIEF ENGINEER	03/18/16 DATE



MIDBLOCK CROSSING CURB RAMP



PAIRED PARALLEL CURB RAMPS ALONG LARGE RADIUS

NOTES:

① Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

② The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- TS Turning Space
- CS Clear Space

INDIANA DEPARTMENT OF TRANSPORTATION

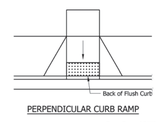
PAIRED PARALLEL CURB RAMPS AND
MIDBLOCK CROSSING CURB RAMP
TYPICAL PLACEMENT

SEPTEMBER 2016

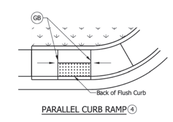
STANDARD DRAWING NO. E 604-SWCR-07

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

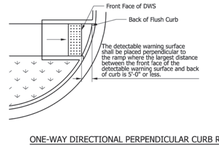
/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/15/16 DATE
/s/ Mark A. Miller	CHIEF ENGINEER	03/18/16 DATE

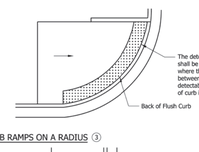


PERPENDICULAR CURB RAMP

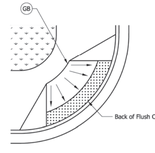


PARALLEL CURB RAMP ④

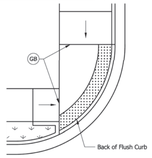




ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMPS ON A RADIUS ③



BLENDED TRANSITION CURB RAMP ⑤



DEPRESSED CORNER CURB RAMP ⑤ ⑦

LEGEND:

- Buffer or Other Non-Walkable Surface
- Detectable Warning Surface (DWS)
- Ramp
- GB Grade Break

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE
PLACEMENT AND CONFIGURATION

SEPTEMBER 2018

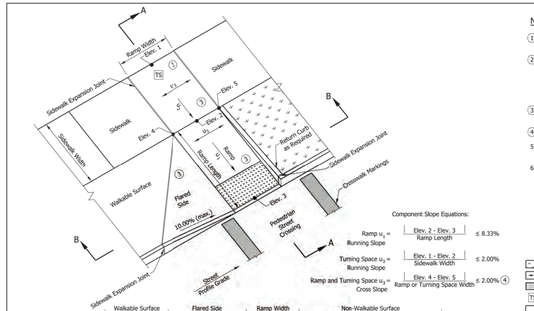
STANDARD DRAWING NO. E 604-SWCR-12

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/29/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE

NOTES:

1. A detectable warning surface shall be placed at each street, highway, or railroad crossing. See Standard Drawing E 604-SDWK-03 for a detectable warning surface placement at a sidewalk driveway crossing.
2. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
3. Where the distance from the face of the detectable warning surface is 5 ft or less from the back of curb, the detectable warning surface shall be placed perpendicular to the ramp. Where the distance from the face of the detectable warning surface is more than 5 ft from the back of curb, the detectable warning surface shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
4. The detectable warning surface on a parallel curb ramp shall be placed on the turning space at the flush transition between the street and turning space at the back of curb.
5. The detectable warning surface on a blended transition or depressed corner shall be placed at the back of curb as shown or in an alternate placement configuration. See Standard Drawing E 604-SWCR-13 for alternate detectable warning surface placement.
6. See Standard Drawing E 604-SWCR-14 for detectable warning surface details.



NOTES:

① The bottom edge of the ramp and top of curb shall be flush with the edge of adjacent pavement and gutter line.

② The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope. Where a tiered perpendicular curb ramp is used, a constrained turning space shall have a minimum clear dimension of 5 ft x 5 ft.

③ Curb ramp surface shall be coarse broomed transverse to the running slope.

④ See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface
- TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

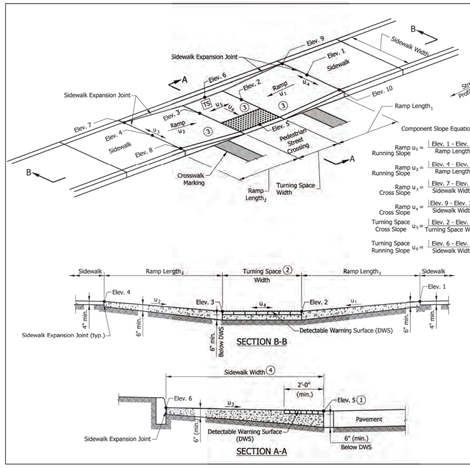
PERPENDICULAR CURB RAMP
COMPONENT DETAILS

SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-04

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/29/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE



NOTES:

① The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.

② The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.

③ Curb ramp surface shall be coarse broomed transverse to the running slope.

④ Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

⑤ See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

6. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
7. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Ramp
- Detectable Warning Surface
- TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

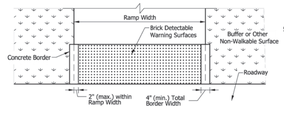
PARALLEL CURB RAMP
COMPONENT DETAILS

SEPTEMBER 2018

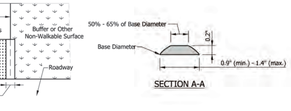
STANDARD DRAWING NO. E 604-SWCR-08

ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

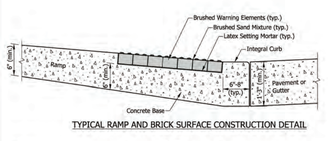
/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/29/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE



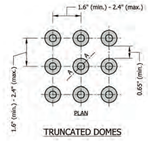
BRICK DETECTABLE WARNING SURFACE WITH CONCRETE BORDER ⑥ ⑦



SECTION A-A

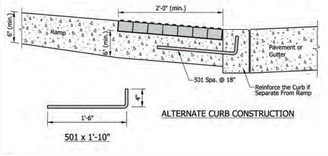


TYPICAL RAMP AND BRICK SURFACE CONSTRUCTION DETAIL



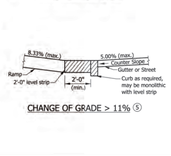
PLAN

TRUNCATED DOMES



501 x 1'-10"

ALTERNATE CURB CONSTRUCTION



CHANGE OF GRADE > 11% ⑤

NOTES:

1. Detectable warning surface shall consist of truncated domes. Domes shall be aligned in a square or radial grid pattern with diameter and center-to-center spacing within the ranges specified.
2. The detectable warning surface may be field cut. Truncated dome spacing between adjacent panels shall be within the ranges specified.
3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2-ft minimum level strip should be provided at the bottom of the ramp.
6. Where a concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not reduce the ramp width by more than 2 in. on each side.
7. Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE DETAILS

SEPTEMBER 2018

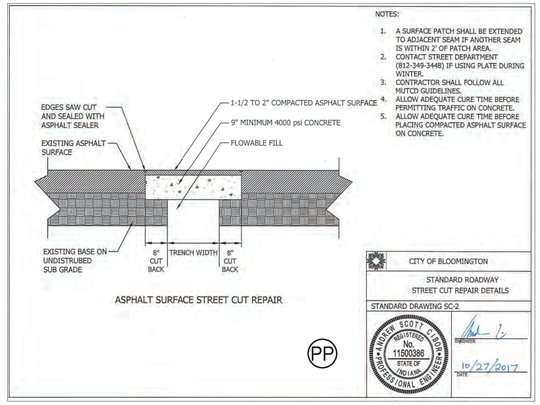
STANDARD DRAWING NO. E 604-SWCR-14

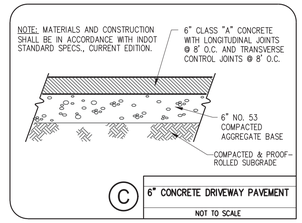
ELIZABETH W. PHILLIPS — REGISTERED — No. 10200124 — STATE OF — INDIANA — PROFESSIONAL ENGINEER

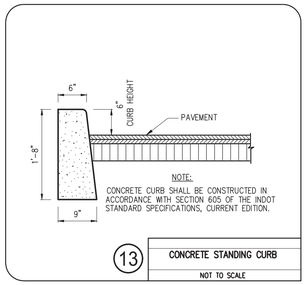
/s/ Elizabeth W. Phillips	DESIGN STANDARDS ENGINEER	03/29/18 DATE
/s/ John Leckie	CHIEF ENGINEER	04/25/18 DATE

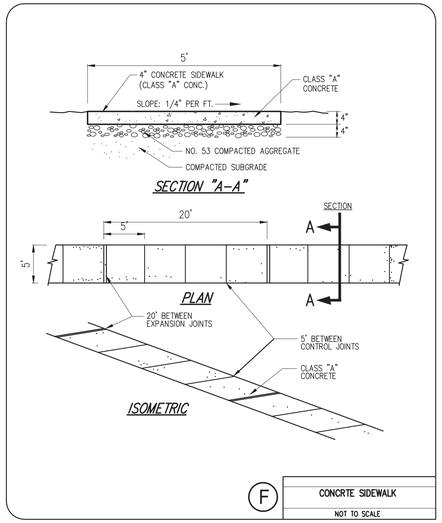
NOTE TO CONTRACTOR

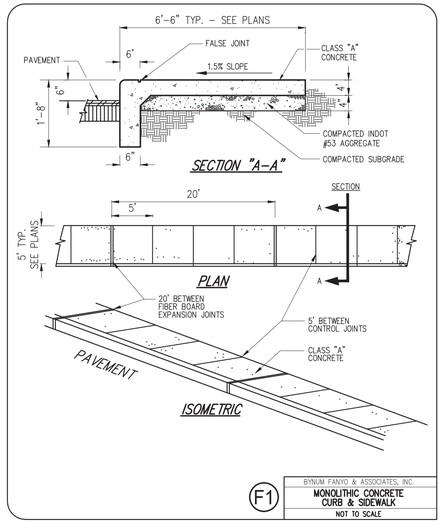
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

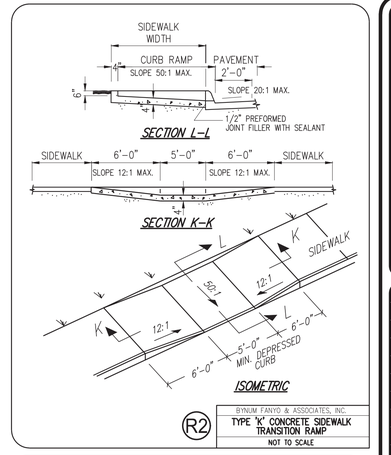


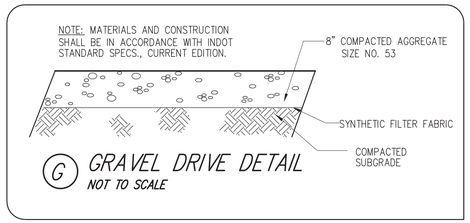


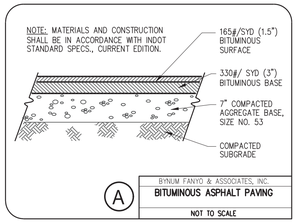


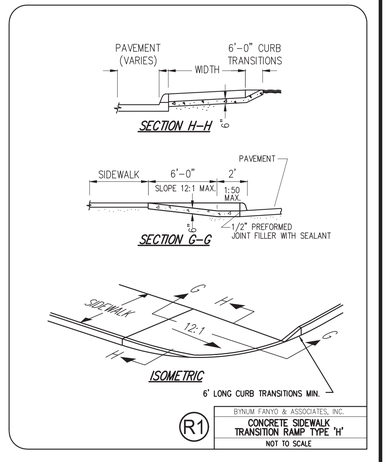




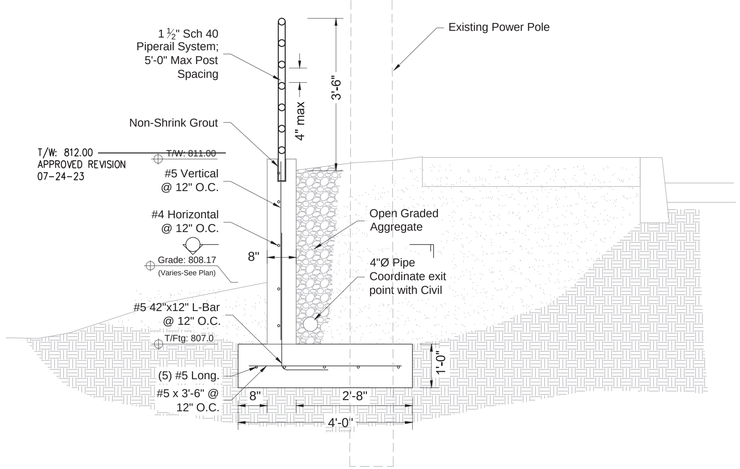




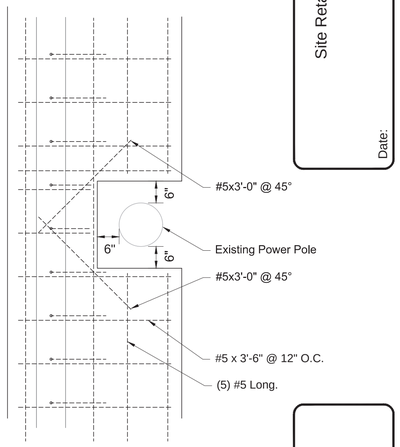




Notes:
1) All formwork to be constructed per ACI 301.4. Exposed edges to have 3/4" chamfer.
2) Concrete shall be placed per ACI 301.8. Any Embedded items (sleeves, etc) shall be installed per ACI 301.6.
3) Curing and protection of concrete shall be per ACI 301.12.
4) Footing Concrete shall be 3500 psi, Wall 4000 psi; proportioned per ACI 301.3, and include an air entraining admixture per ACI 301.2.2.1.1
5) Wall surface tolerance to be per ACI 10.1, Rough Form finish to be per ACI 10.2.2
6) All reinforcement shall be furnished and installed per ACI 301.5
7) All foundation concrete shall be placed on undisturbed soils to indicated depths.
8) Coordinate layout and location of wall with Site and Grading Plans prepared by BFA.
9) A Minimum allowable soil bearing pressure of 2500 PSF is required. A Geotechnical Engineer shall be retained by the owner to ensure that the subgrade on which the footing is placed has this required allowable bearing capacity.
10) Brace wall as required during backfill operations.



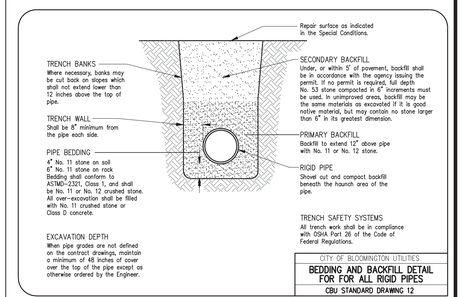
Typical Wall Section
NOT TO SCALE

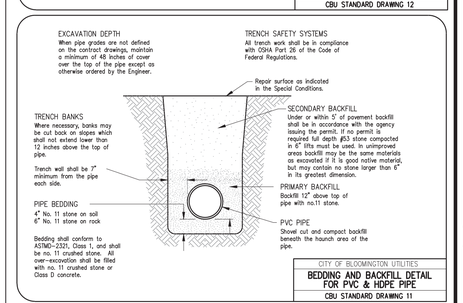


RW

BFW Crane, Inc.
PO Box 41
Clear Creek, Indiana 47426

Site Retaining Wall Design
Project No:
S1
Date:





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revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
BYNUM FANYO & ASSOCIATES, INC.
528 north walnut street
bloomington, indiana
(812) 332-8030
(812) 339-2990 (Fax)

JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: MISCELLANEOUS DETAILS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C402
project no.: 402101

GP — PRACTICE 3.61-B
GRAVEL CURB INLET PROTECTION

REQUIREMENTS (Exhibit 3.61-B)

Contributing drainage area: 1 acre maximum.
Capacity: Runoff from a 2-yr. frequency, 24-hr. duration storm event entering the storm drain without bypass flow.
Location: At curb inlets where ponding is not likely to cause inconvenience or damage.
Gravel: 1-2 in. diameter (INDOT CA No. 2)
Wire mesh: Chicken wire or hardware cloth with 1/2-in. openings.
Geotextile fabric (optional): For Filtration.

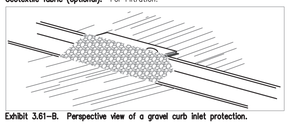


Exhibit 3.61-B. Perspective view of a gravel curb inlet protection.

INSTALLATION (Exhibit 3.61-B)

1. Install gravel curb inlet protections as soon as the streets are paved in a new development situation or before land-disturbing activities in stabilized areas.
2. Place wire mesh over the curb inlet opening and/or grate so it extends at at least 12 in. beyond both top and bottom of the opening/grate.
3. Install geotextile fabric over the wire mesh for additional filtration (optional).
4. Pile gravel over the wire mesh to anchor it against the curb, covering the inlet opening completely.

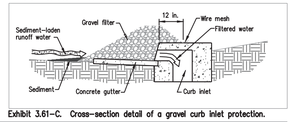


Exhibit 3.61-C. Cross-section detail of a gravel curb inlet protection.

MAINTENANCE

* After each storm event, remove sediment and replace the gravel; replace the geotextile filter fabric if used.
* Periodically remove sediment and tracked-on soil from the street (but not by flushing with water) to reduce the sediment load on the curb inlet practice.
* Inspect periodically, and repair damage caused by vehicles.
* When the contributing drainage area has been stabilized, remove the gravel, wire mesh, geotextile fabric, and any sediment, and dispose of them properly.

MS — PRACTICE 3.12
PERMANENT SEEDING

REQUIREMENTS

Site and seedbed preparation: Graded, and lime and fertilizer applied.
Plant Species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded (see Exhibit 3.12-C).
Mulch: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered.

APPLICATION (Exhibit 3.12-B, C, and D)

Permanently seed all final grade areas (e.g., landscape berms, drainage swales, erosion control structures, etc.) as each is completed and all areas where additional work is not scheduled for a period of more than a year.

SITE PREPARATION:

1. Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, silt fences, and straw bale dams (Practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75).
2. Grade the site and fill in depressions that can collect water.
3. Add topsoil to achieve needed depth for establishment of vegetation (Practice 3.02).

SEEDBED PREPARATION:

1. Test soil to determine pH and nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information, including available soil testing services.)
2. If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations.
3. Fertilize as recommended by the soil test. If testing was not done, consider applying 400-600 lbs./acre of 12-12-12 analysis, or equivalent, fertilizer.
4. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2-4 in. deep with a disk or rake operated across the slope (Exhibit 3.12-B).

SEEDING:

Optimum seeding dates are Mar. 1-May 10 and Aug. 10-Sept. 30. Permanent seeding done between May 10 and Aug. 10 may need to be irrigated. As an alternative, use temporary seeding (Practice 3.11) until the preferred date for permanent seeding.

1. Select a seeding mixture and rate from Exhibit 3.12-C, based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker-seeder (Exhibit 3.12-D) or by broadcasting, and cover to a depth of 1/4-1/2 in.
3. If drilling or broadcasting, firm the seedbed with a roller or cultipacker
4. Mulch all seeded areas (Practice 3.15).Consider using erosion blankets on sloping areas (Practice 3.17). (NOTE: If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.)

Exhibit 3.12-C. Permanent Seeding Recommendations

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness.

Seed species and mixtures	Rate per acre	Optimum soil pH
OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)		
1. Perennial ryegrass	35 to 50 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Perennial ryegrass	15 to 30 lbs.	5.6 to 7.0
+ prarie switch grass	15 to 30 lbs.	
4. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED)		
2. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ white or ladino clover*	1 to 2 lbs.	
3. Prarie switch grass	35 to 50 lbs.	5.5 to 7.5
+ red clover* (Recommended north of US 40)	10 to 20 lbs.	
4. Orchardgrass	20 to 30 lbs.	5.6 to 7.0
+ red clover*	10 to 20 lbs.	
+ ladino clover*	1 to 2 lbs.	
LAWNS AND HIGH MAINTENANCE AREAS		
1. Bluegrass	105 to 150 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf-type)	45 to 60 lbs.	5.6 to 7.0
+ bluegrass	70 to 90 lbs.	
3. Prarie switch grass(turf-type)	130 to 107 lbs.	5.5 to 7.5
+ bluegrass	20 to 30 lbs.	
CHANNELS AND AREAS OF CONCENTRATED FLOW		
1. Perennial ryegrass	100 to 150 lbs.	5.6 to 7.0
+ white or ladino clover*	1 to 2 lbs.	
2. Kentucky bluegrass	20 lbs.	5.5 to 7.5
+ switchgrass	3 lbs.	
+ timothy	4 lbs.	
+ perennial ryegrass	10 lbs.	
+ white or ladino clover*	1 to 2 lbs.	
3. Prarie switch grass	100 to 150 lbs.	5.5 to 7.5
+ ladino or white clover*	1 to 2 lbs.	
4. Prarie switch grass	100 to 150 lbs.	5.5 to 7.5
+ Perennial ryegrass	15 to 20 lbs.	
+ Kentucky bluegrass	15 to 20 lbs.	

* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (Practice 3.13); and (c) if legumes are fall-seeded, do so in early fall.

NOTE: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures. If so, it is best to seed during the fall seeding period, especially after Sept. 15, and at the following rates: spring oats-1.4 to 3/4 bu./acre; wheat-no more than 1/2 bu./acre.

MAINTENANCE

* Inspect periodically, especially after storm events, until the stand is successfully established. (Characteristics of a successful stand include: vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well inter-mixed; green leaves; and the perennials remaining green throughout the summer, at least at the plant base.)
* Plan to add fertilizer the following growing season according to soil test recommendations.
* Repair damaged, bare or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching.
* If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seedbed.
* If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)
* If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.

SF — PRACTICE 3.74
SILT FENCE (SEDIMENT FENCE)

PURPOSE

To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow.

(NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated flow is anticipated.)

REQUIREMENTS (Exhibit 3.74-B and C)

Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74-B).
Location: Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool.
Trench: 8 in. minimum depth, flat-bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
Support posts: 2 x 2-in. hardwood posts (if used) or steel fence posts set at least 1 ft. deep.* (Steel posts should projections for fastening fabric.)
Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for extra-strength fabric without wire backing.

Exhibit 3.74-B. Maximum Land Slope and Distance for Which a Silt Fence Is Applicable.

Land slope	Max. distance above fence
Less than 2%	100 ft.
2 to 5%	75 ft.
5 to 10%	50 ft.
10 to 20%	25 ft.
More than 20%	15 ft.

Fence height: High enough so depth of impounded water does not exceed 1 1/2 ft. at any point along fence line.
Support wire (optional): 14 gauge, 6 in. wire fence (needed if using standard-strength fabric).
Fence fabric: Woven or non-woven geo-textile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74-C) and containing UV inhibitors and stabilizers to ensure 6-mo. minimum life at temperatures 0°-120°F.

* Some commercial silt fences come ready to install, with support posts attached and requiring now wire support.

Exhibit 3.74-C. Specifications Minimums for Silt Fence Fabric.

Physical Property	Woven Fabric	Non-woven fabric
Filtering efficiency	85%	85%
Tensile strength at 20% elongation:		
Standard strength	30lbs./linear in.	50lbs./linear in.
Extra strength	50lbs./linear in.	70lbs./linear in.
Slurry flow rate	0.3 gal./min./sq.ft.	4.5 gal./min./sq.ft.
Water flow rate	15 gal. /min./sq.ft.	220 gal./min./sq.ft.
UV resistance	70%	85%

Outlet (optional): To allow for safe storm flow bypass without overtopping fence. Placed along fence line to limit water depth to 1 1/2 ft. maximum; crest--1 ft. high maximum; weir width--4 ft. maximum; splash pad--5 ft. wide, 3 ft. long, 1 ft. thick minimum.

INSTALLATION

SITE PREPARATION:

1. Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area.
2. Provide access to the area if sediment cleanout will be needed.

OUTLET CONSTRUCTION (OPTIONAL)

1. Determine the appropriate location for a reinforced, stabilized bypass flow outlet.
2. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line.
3. Locate the outlet weir support posts no more than 4 ft. apart, and install a horizontal brace between them. (Weir height should be no more than 1 ft. and water depth no more than 1 1/2 ft. anywhere else along the fence.)
4. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep, 5 ft. wide and 5 ft. long on level grade
5. Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall.
6. Stabilize the area around the pad.

OUTLET CONSTRUCTION (OPTIONAL)

1. Along the entire intended fence line, dig an 8 in. deep flat-bottomed or V-shaped trench.
2. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench as described in step 6.)
3. Fasten support wire fence to the upslope side of the posts, extending it 8 in. into the trench.
4. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line.
5. If a joint is necessary, nail the overlap to the nearest post with a lath.
6. Place the bottom 1 ft. of fabric in the 8 in. deep trench, extending the remaining 4 in. toward the upslope side.
7. Backfill the trench with compacted earth or gravel.

NOTE: If using a pre-packed commercial silt fence rather than constructing one, follow the manufacturer's installation instructions.

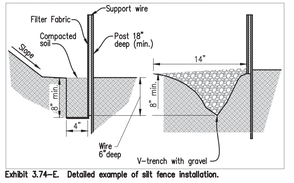
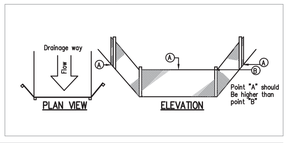


Exhibit 3.74-E. Detailed example of silt fence installation.



MAINTENANCE

* Inspect the silt fence periodically and after each storm event.
* If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.
* Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
* Take care to avoid undermining the fence during clean out.
* After the contributing area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade, and stabilize.

NOTE TO CONTRACTOR

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revisions:

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CIVIL ENGINEERING
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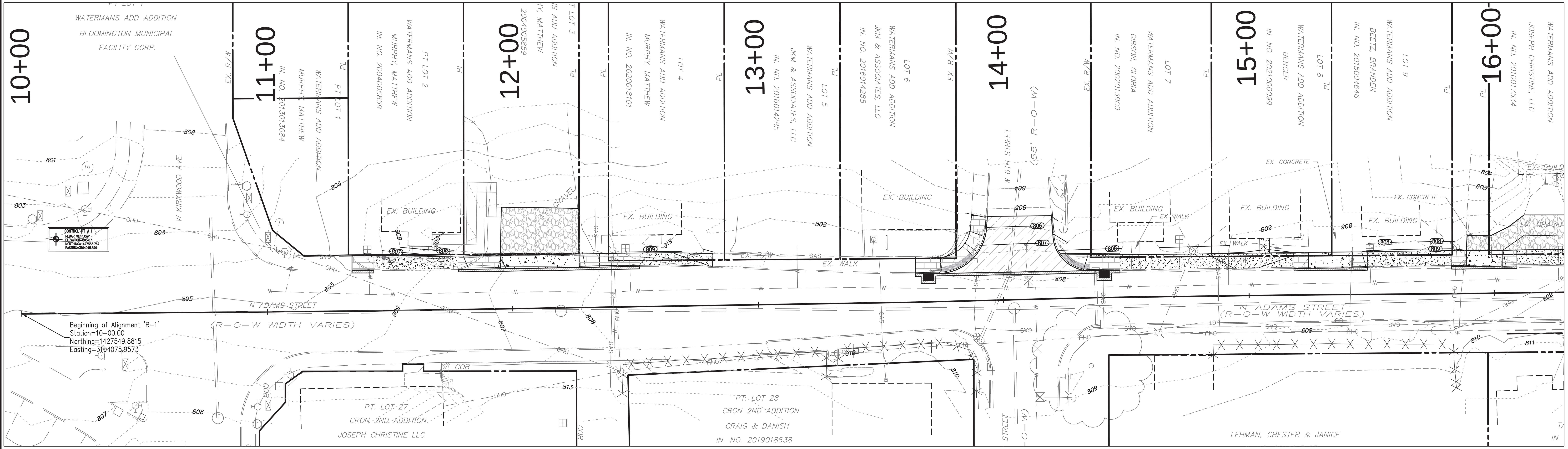
JEFFREY S. FANYO — No. 60018283 — STATE OF INDIANA — PROFESSIONAL ENGINEER
10.10.23
certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: EROSION DETAILS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C403
project no.: 402101

REFERENCE ALIGNMENT FOR CROSS-SECTIONS – STATION 10+00.00 THROUGH 16+00.00



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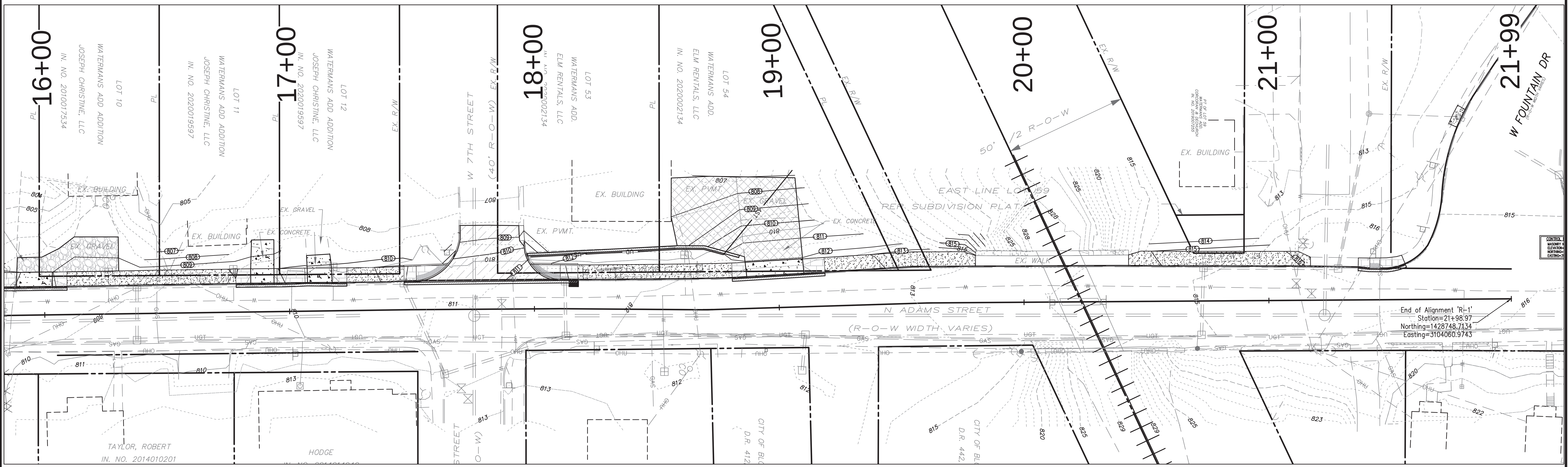

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revisions:

SCALE: 1"=20'

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STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23

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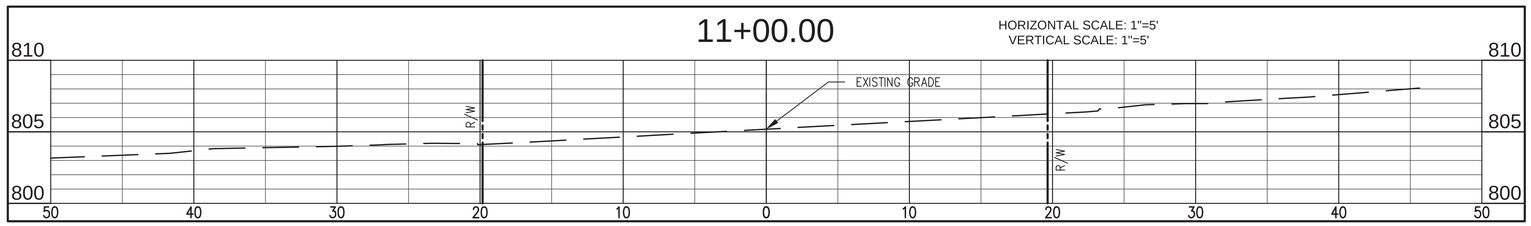
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: CROSS-SECTIONS REFERENCE ALIGNMENT

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C501
project no.: 402101

11+00.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



10+75.00

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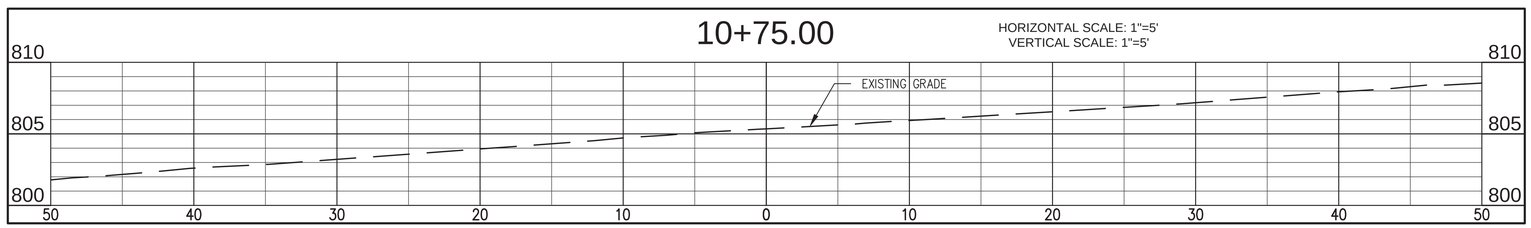

10+68.90

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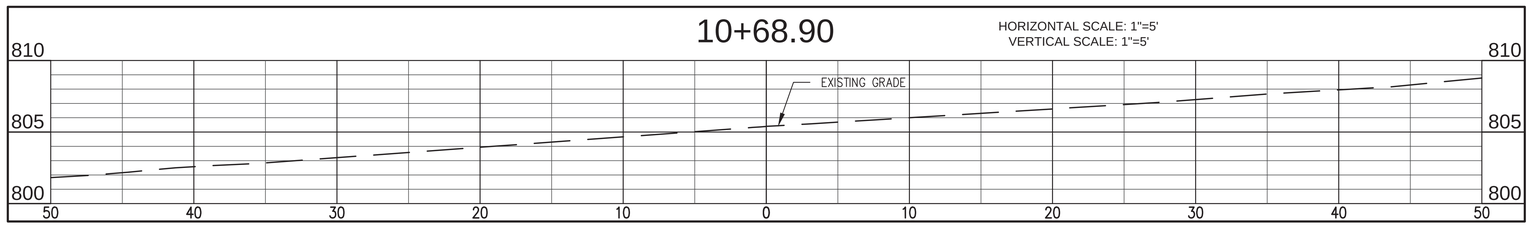

10+50.00

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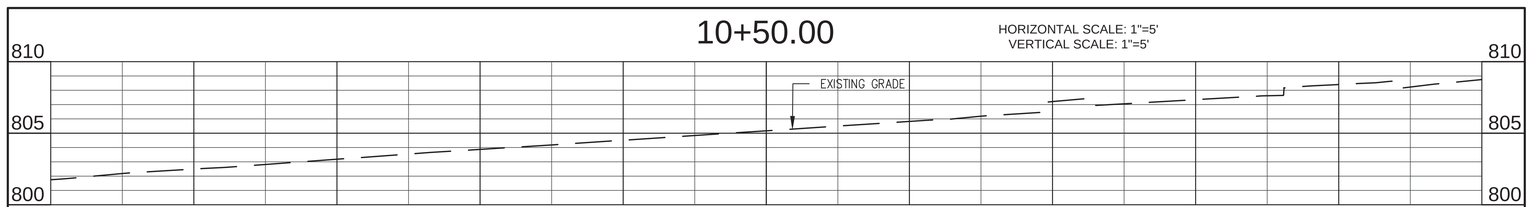

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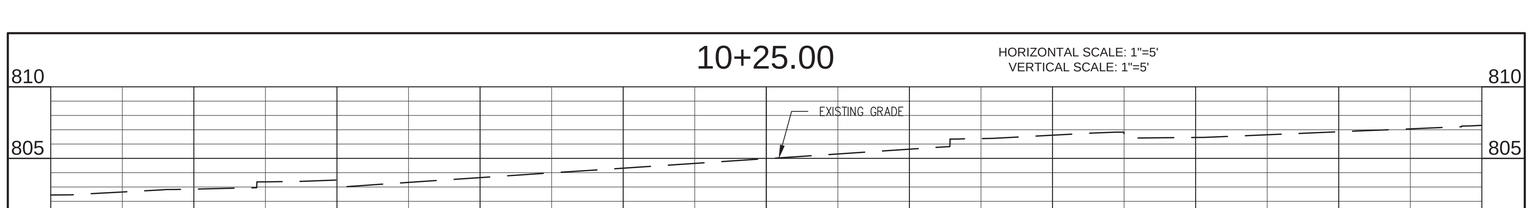

REFER TO SHEET C501 FOR ALIGNMENT AND STATIONING

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10.10.23

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NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C502
project no.: 402101

12+10.95

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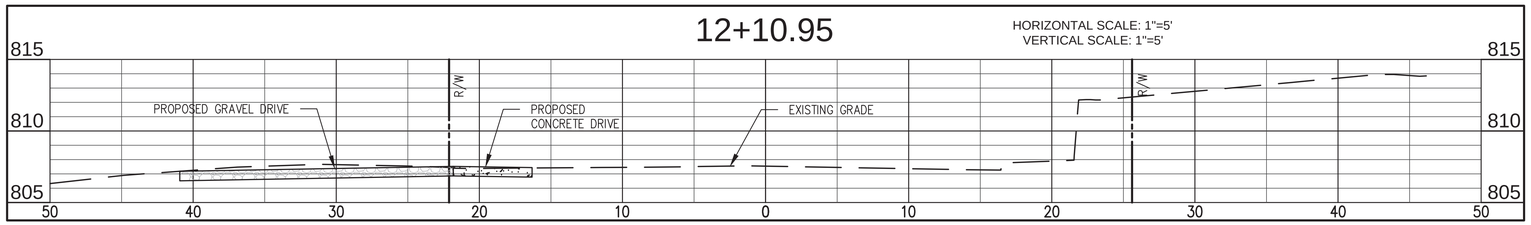
VERTICAL SCALE: 1"=5'



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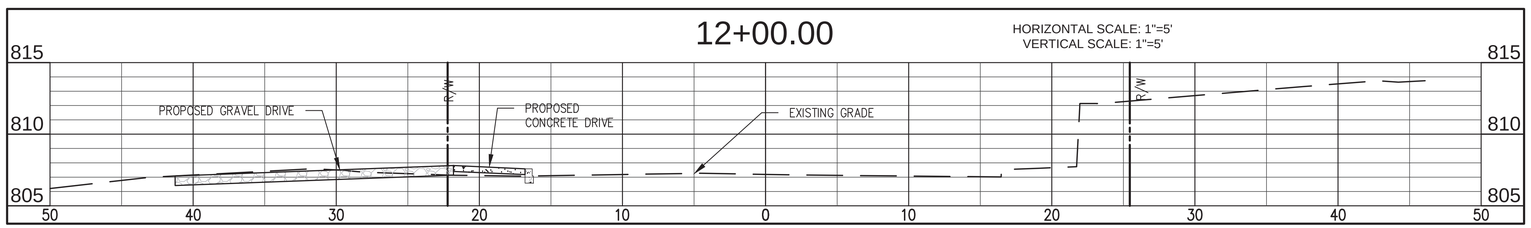

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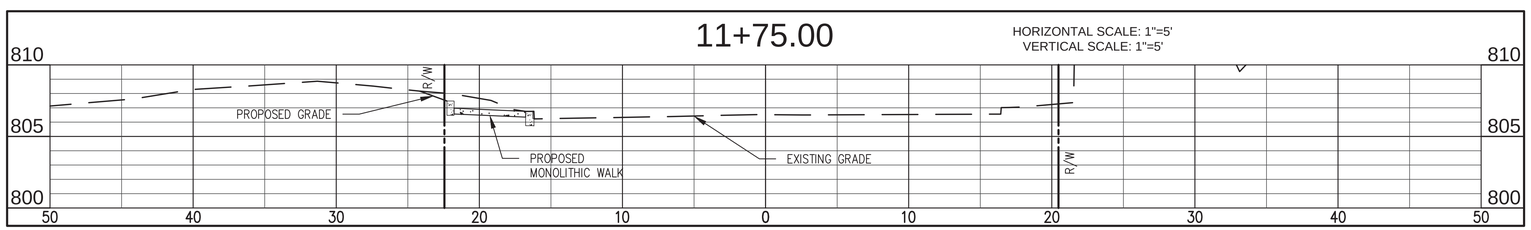

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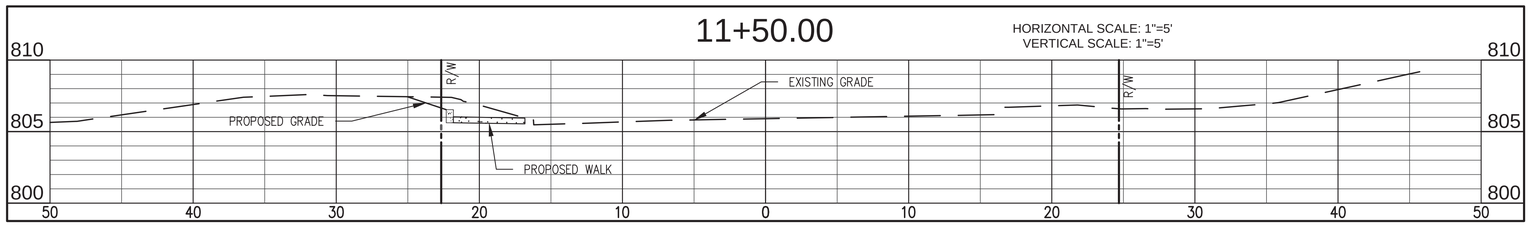

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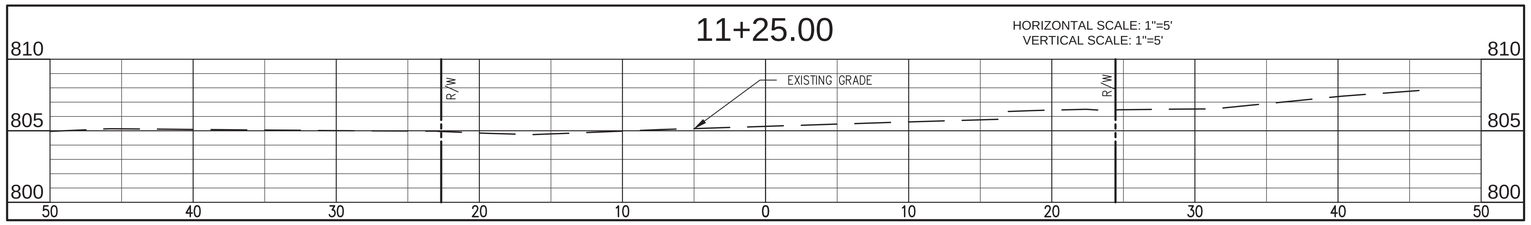

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FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C503
project no.: 402101

13+17.89

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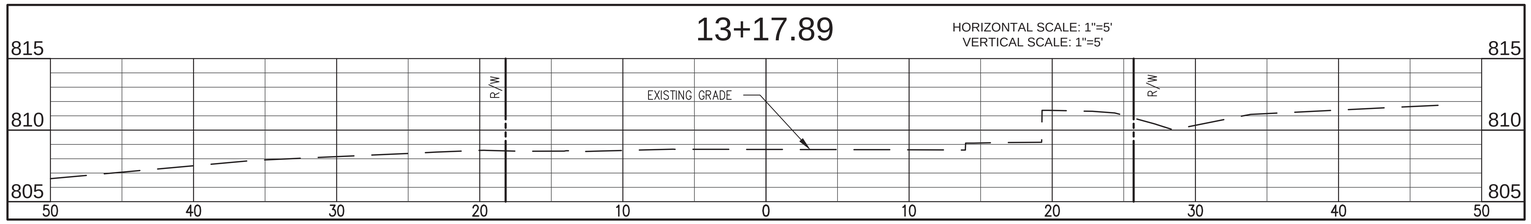
VERTICAL SCALE: 1"=5'



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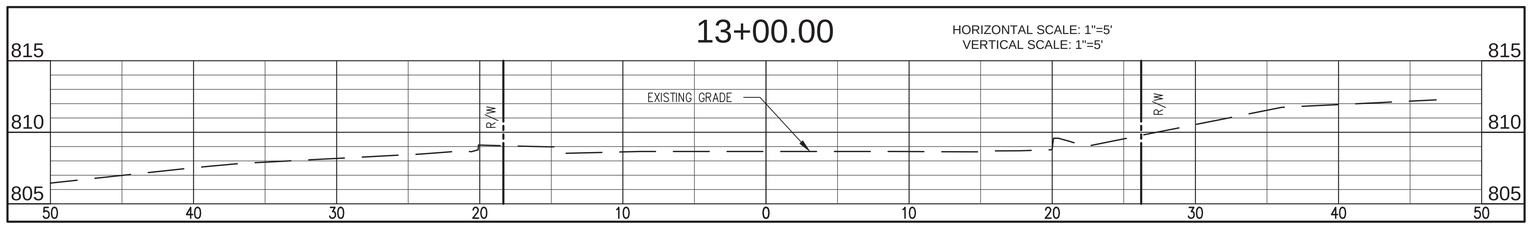

12+75.00

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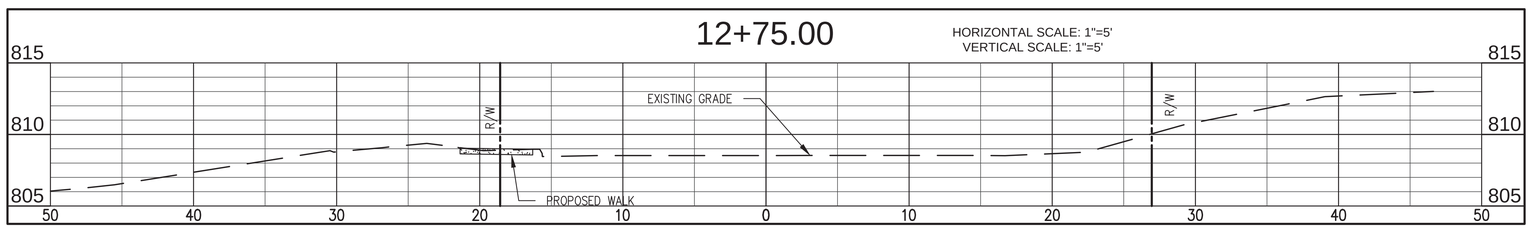

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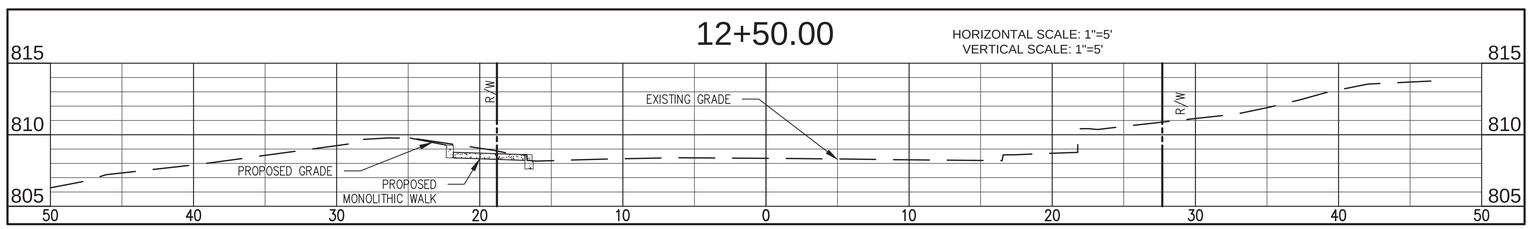

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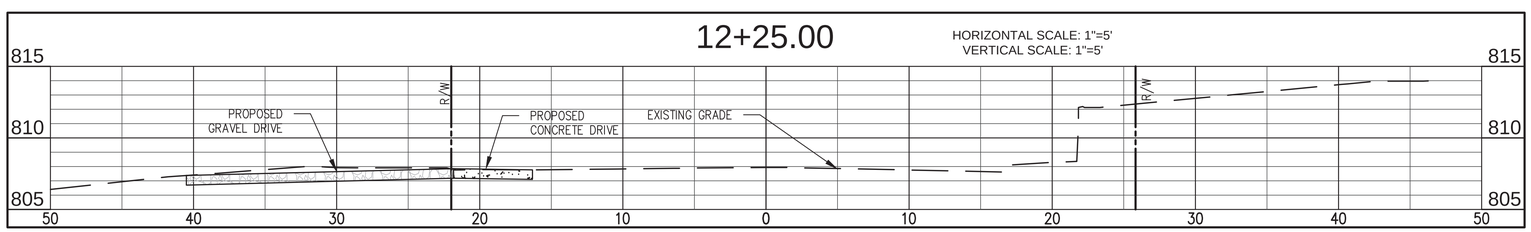

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FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C504
project no.: 402101

14+07.60

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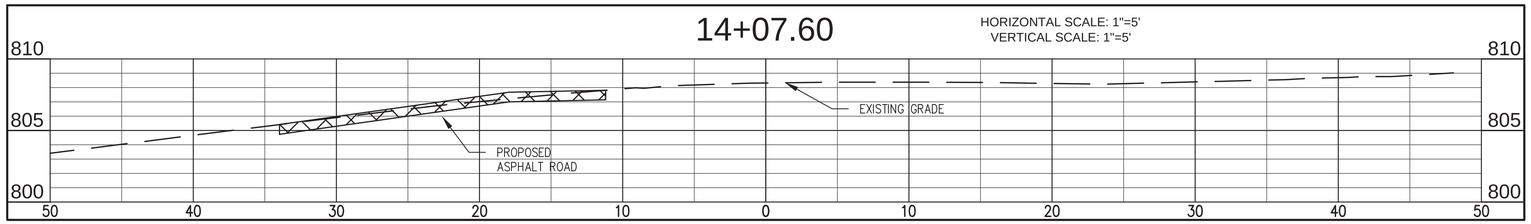

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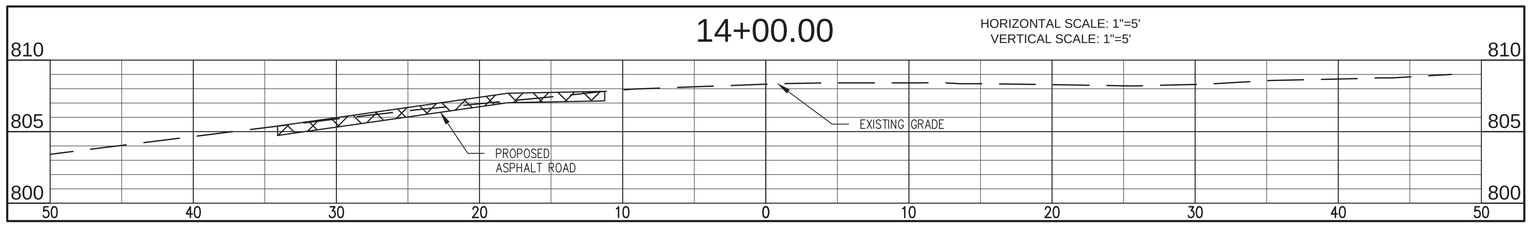

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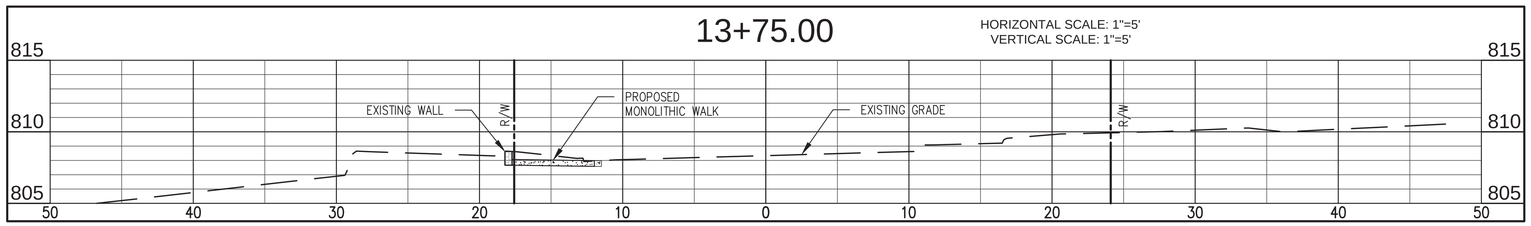

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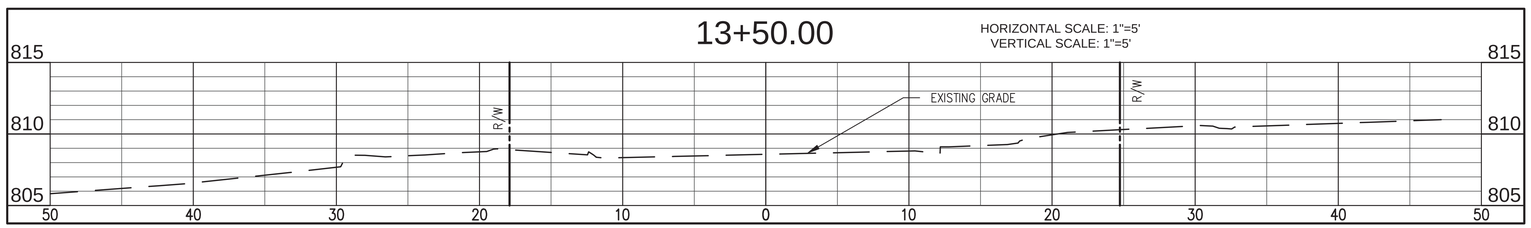

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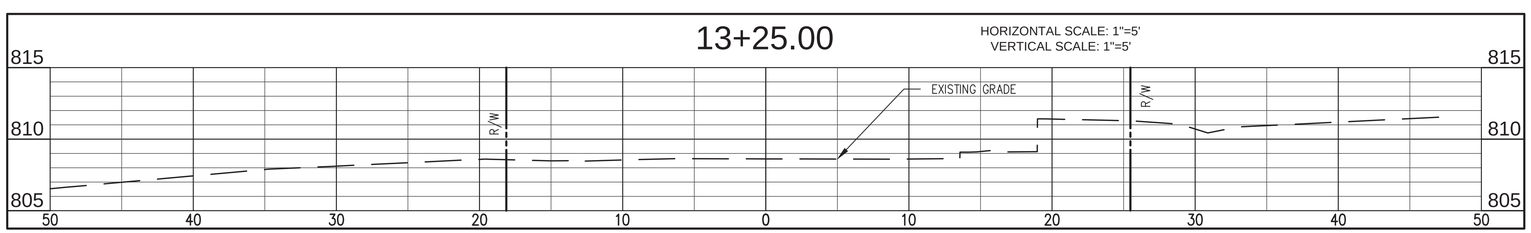

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title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C505
project no.: 402101

15+25.00

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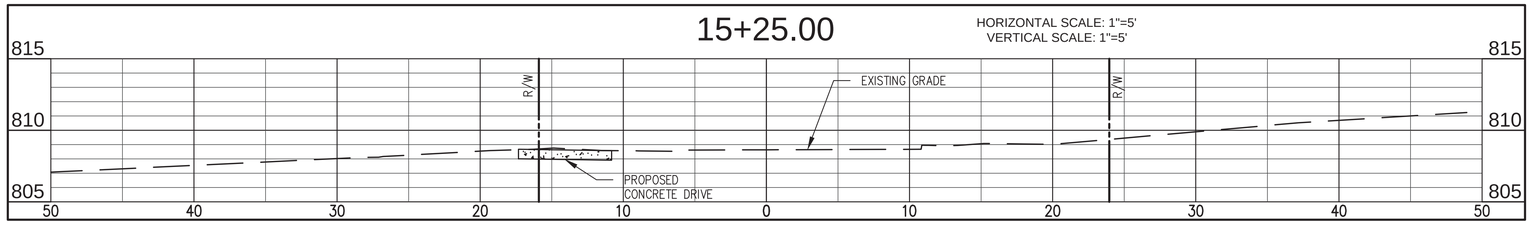

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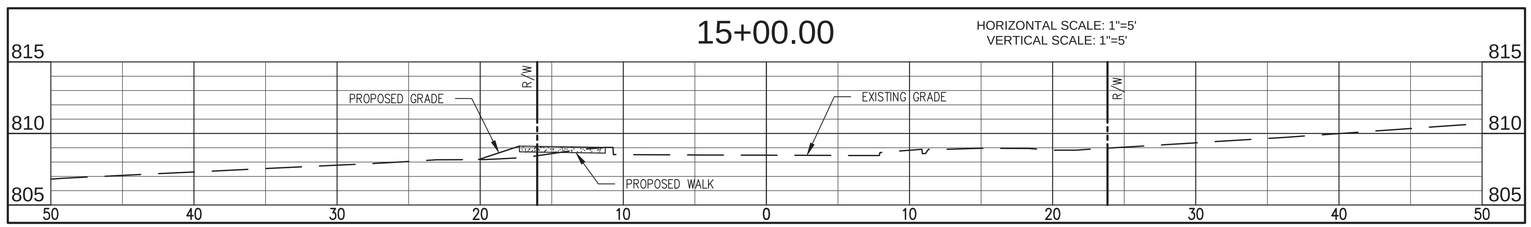

14+75.00

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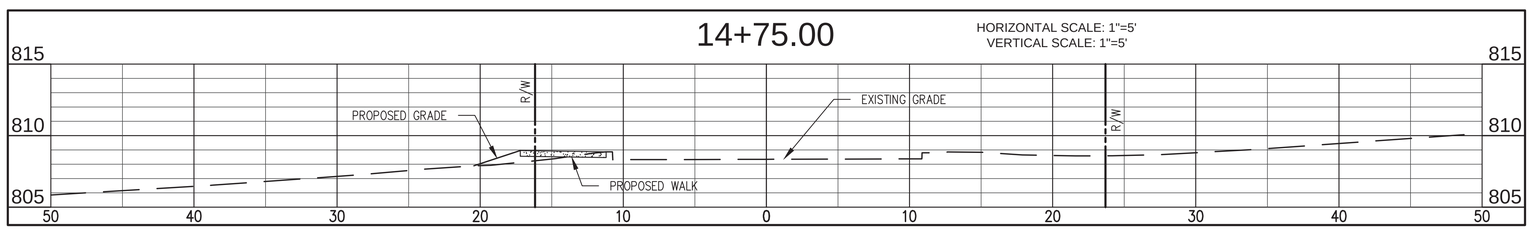

14+50.00

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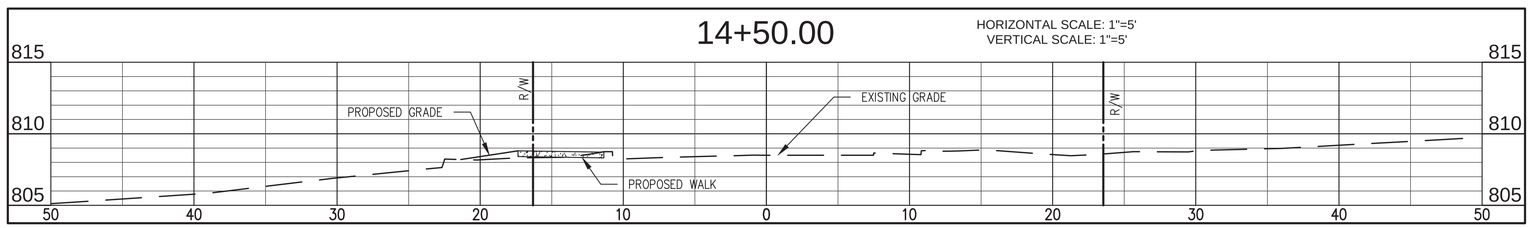

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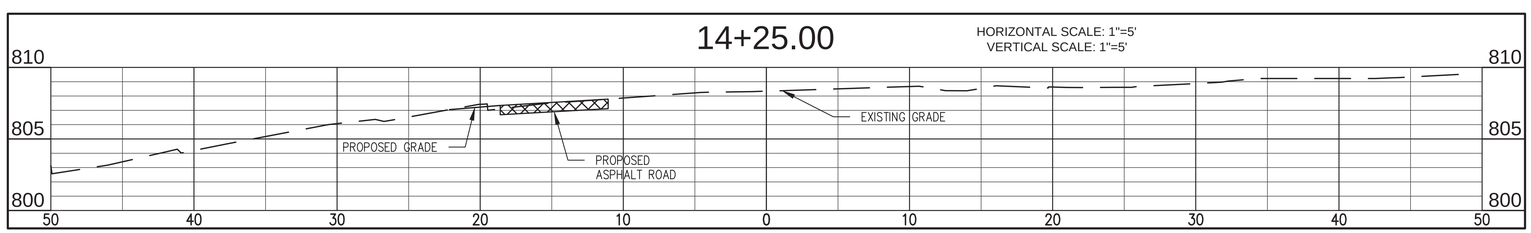

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10.10.23
certified by:

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NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C506
project no.: 402101

15+95.79

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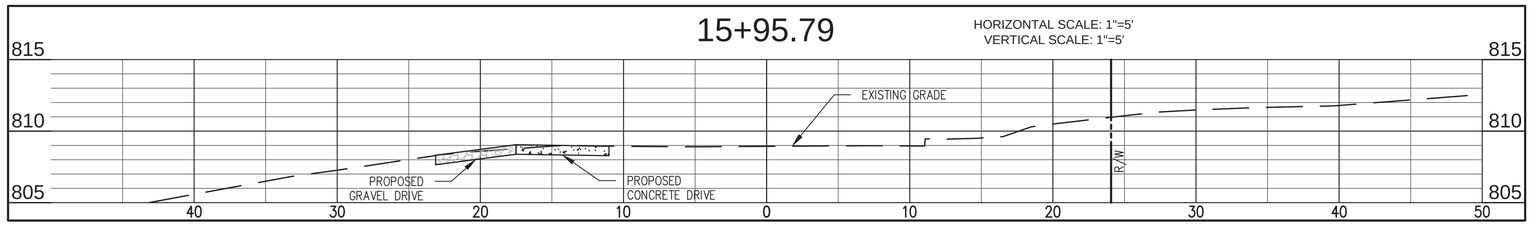

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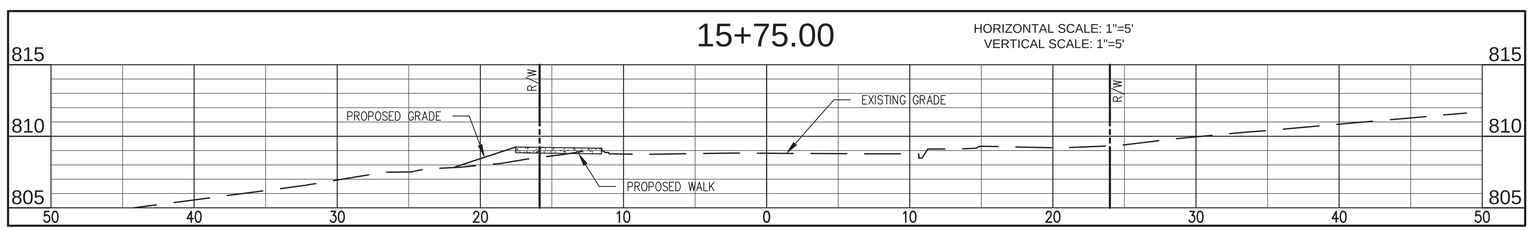

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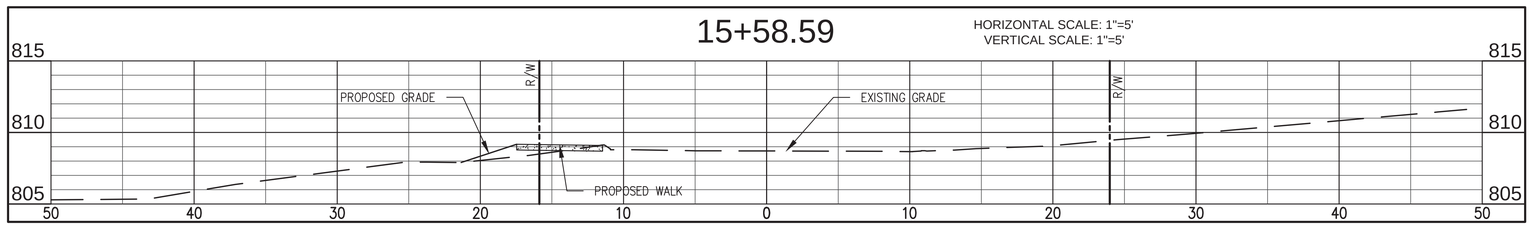

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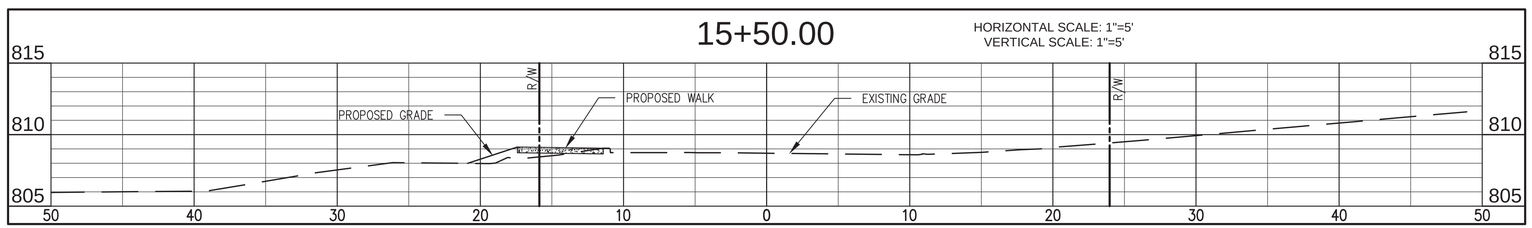
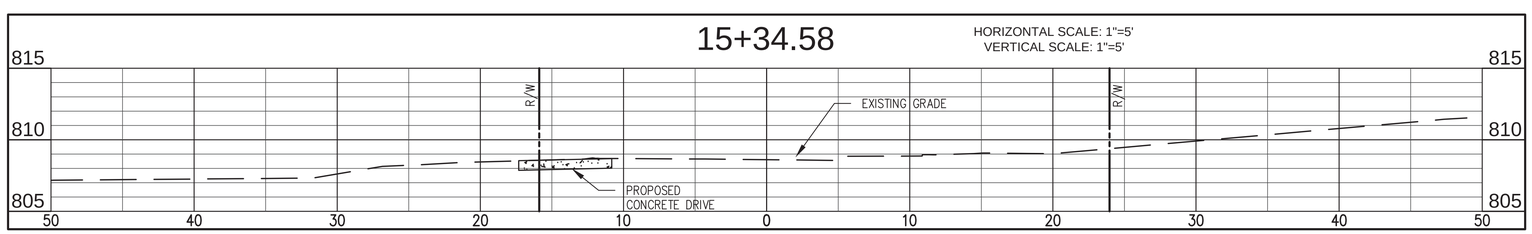
HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



15+34.58

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



REFER TO SHEET C501 FOR ALIGNMENT AND STATIONING

NOTE TO CONTRACTOR

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revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
BYNUM FANYO & ASSOCIATES, INC.
528 north walnut street
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bloomington, indiana
(812) 339-2990 (Fax)

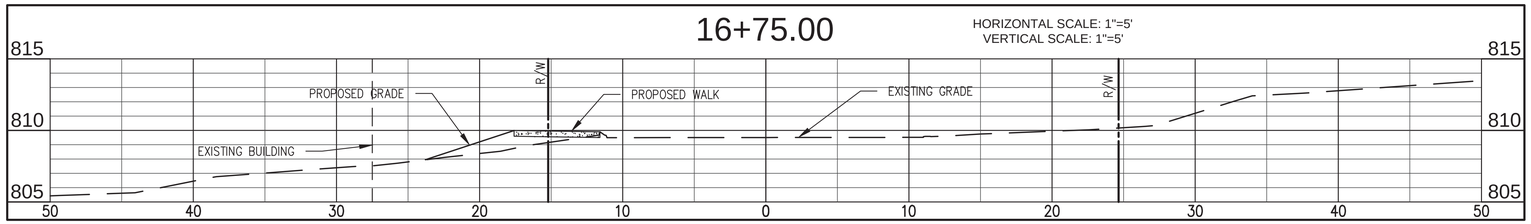
JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.10.23

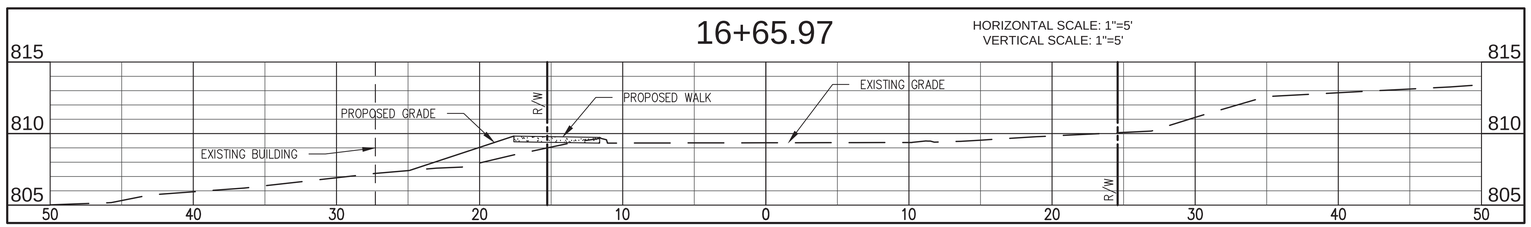
certified by:

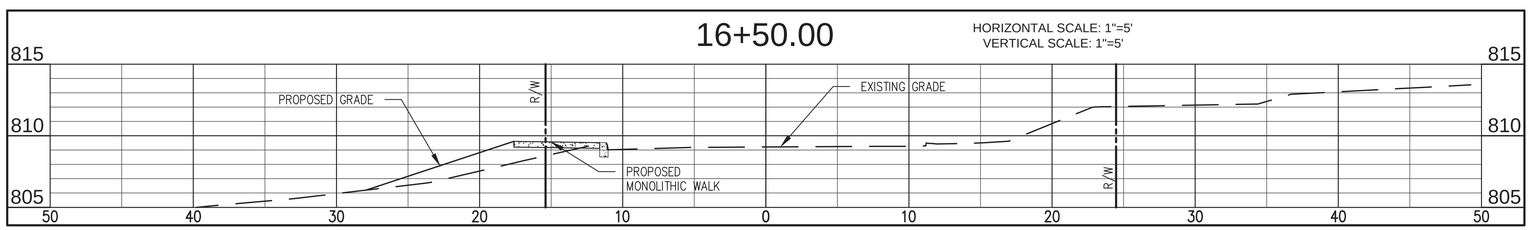
PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

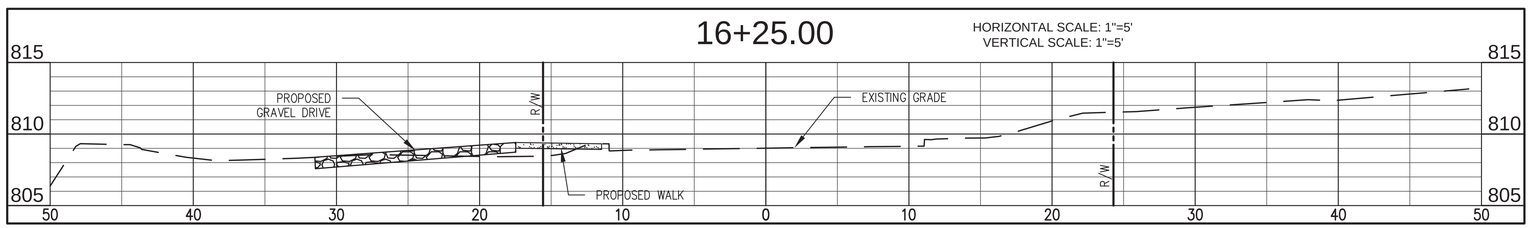
title: R-1
CROSS-SECTIONS

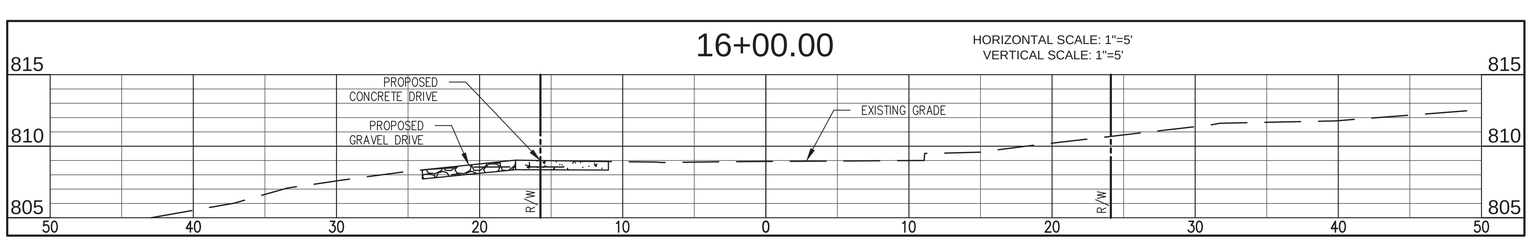
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C507
project no.: 402101











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10.10.23

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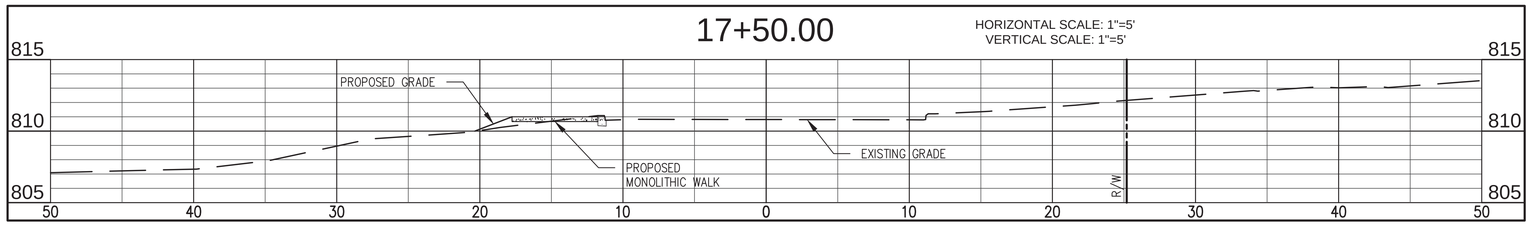
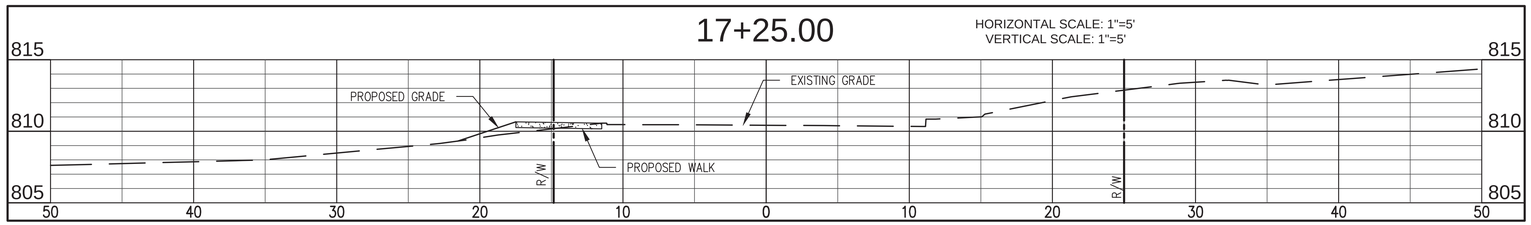
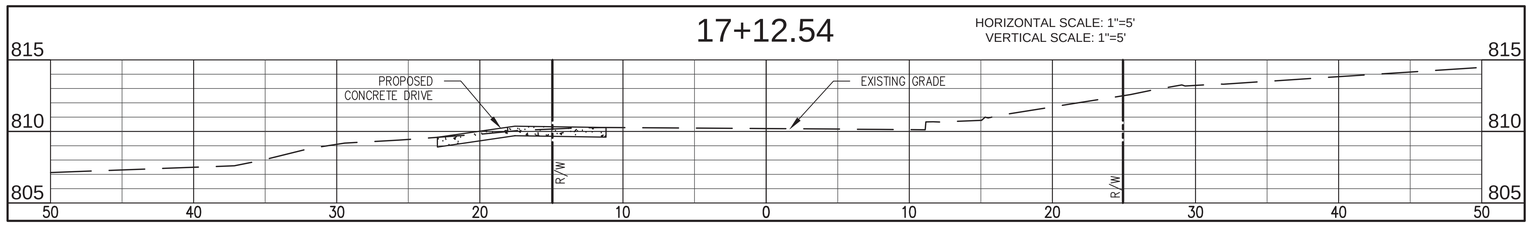
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

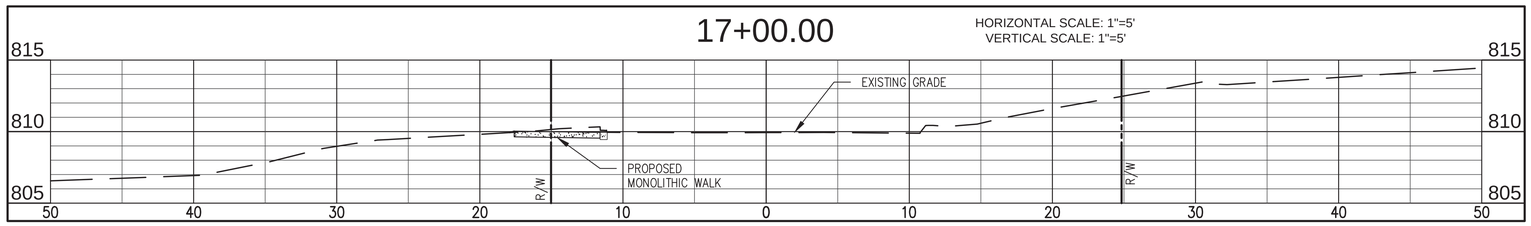
title: R-1
CROSS-SECTIONS

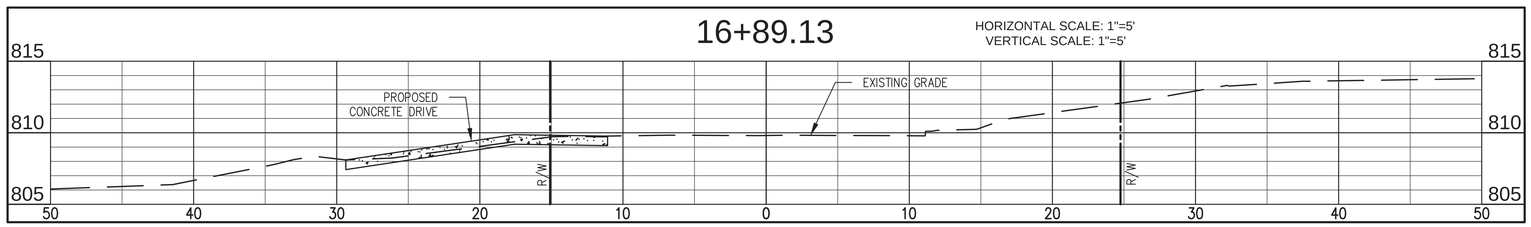
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C508
project no.: 402101











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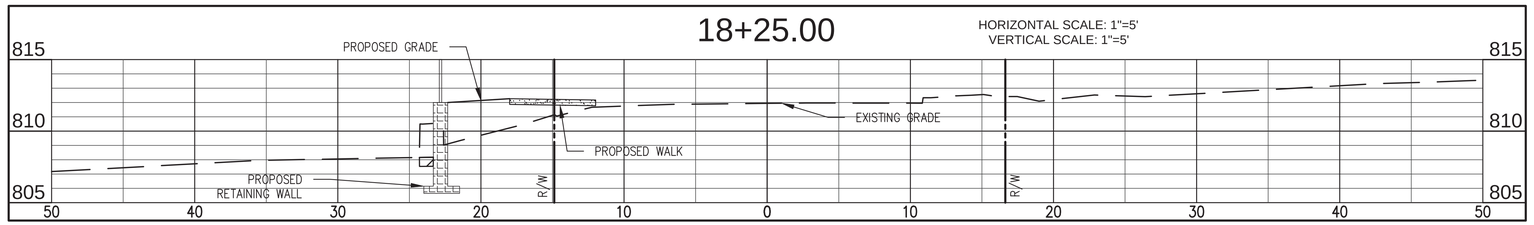
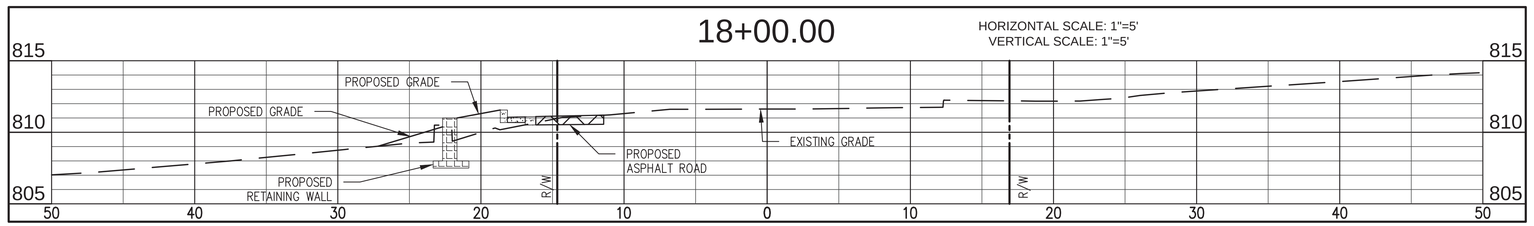
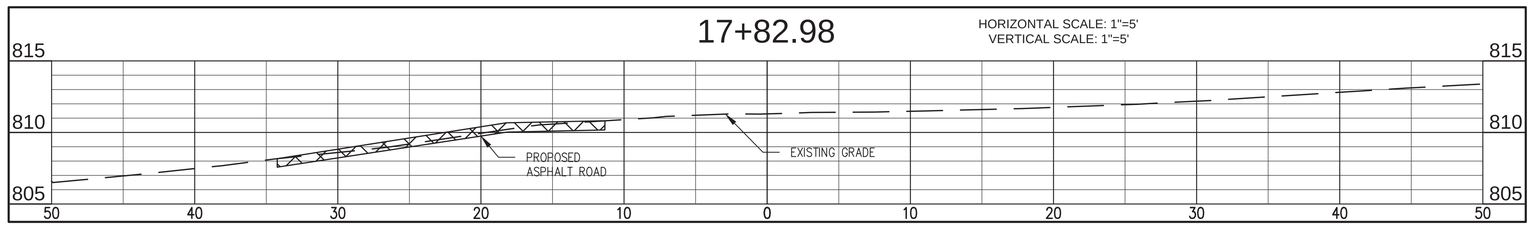
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

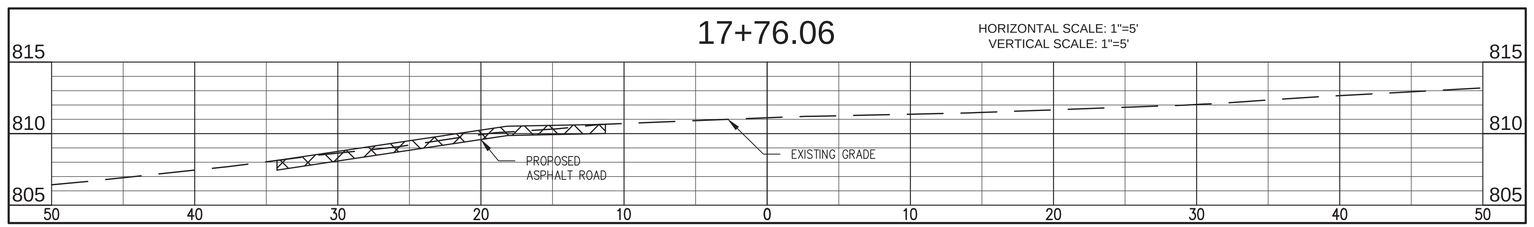
title: R-1
CROSS-SECTIONS

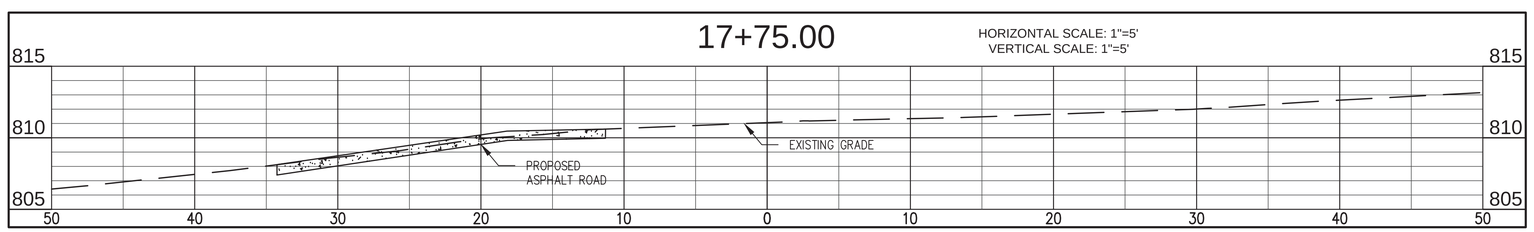
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C509
project no.: 402101











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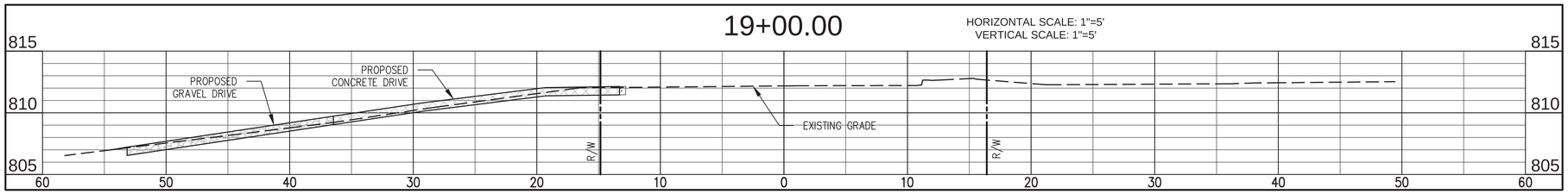
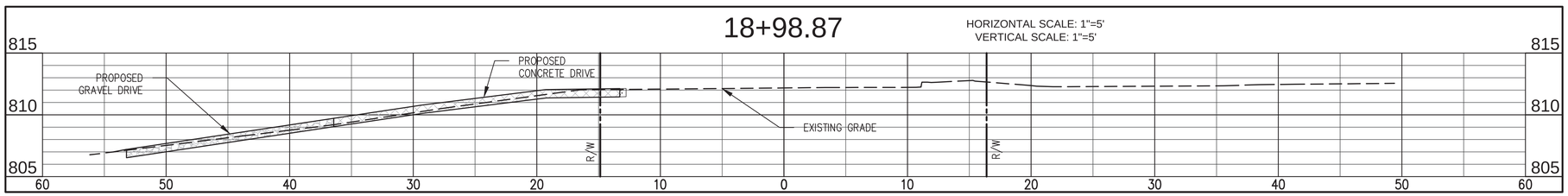
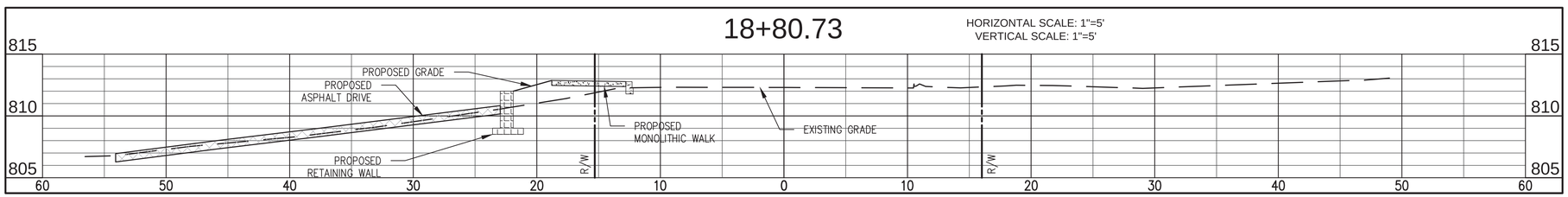
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION OF W. 8TH ST. AND W. FOUNTAIN DR.

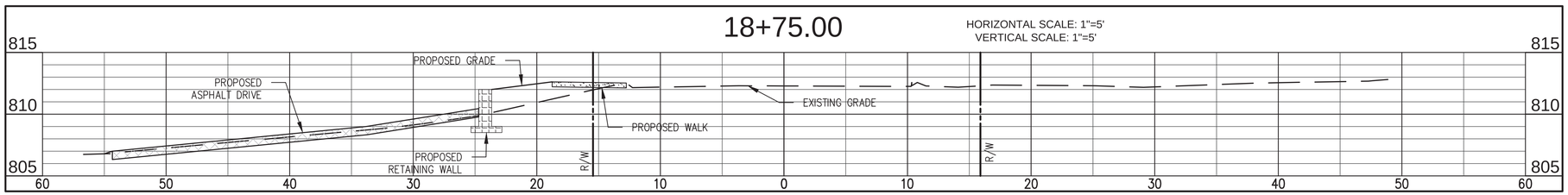
title: R-1 CROSS SECTIONS

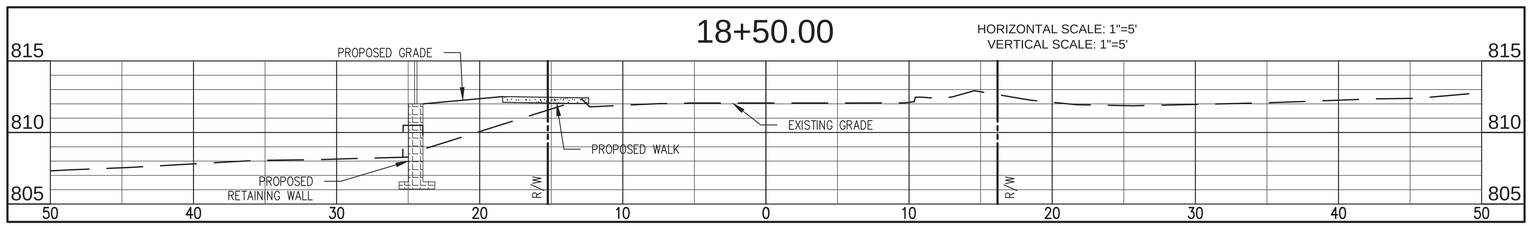
designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C510
project no.: 402101











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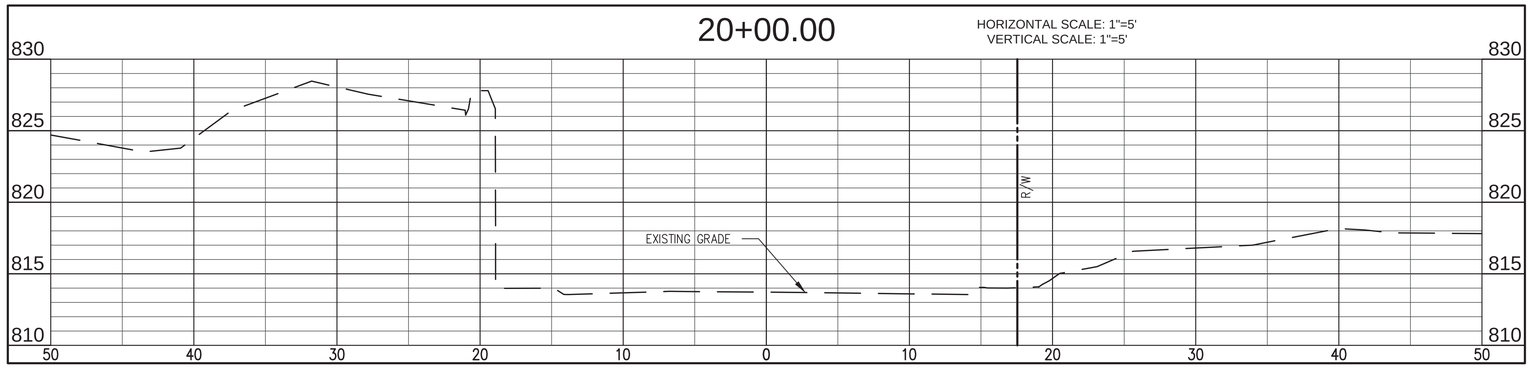
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C511
project no.: 402101

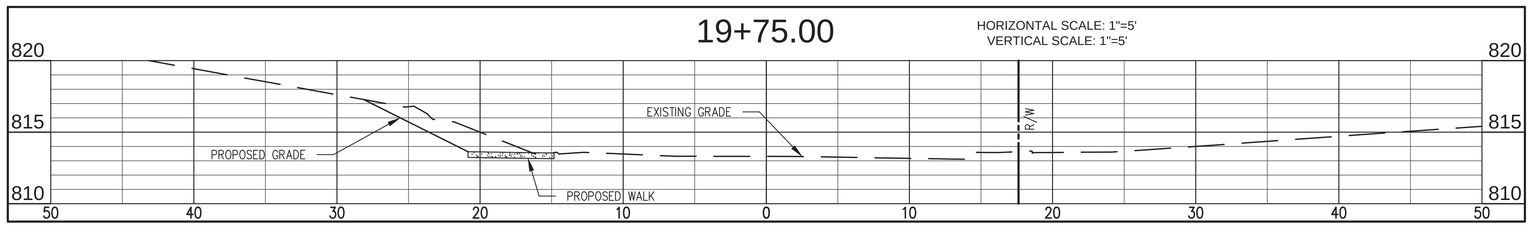
20+00.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



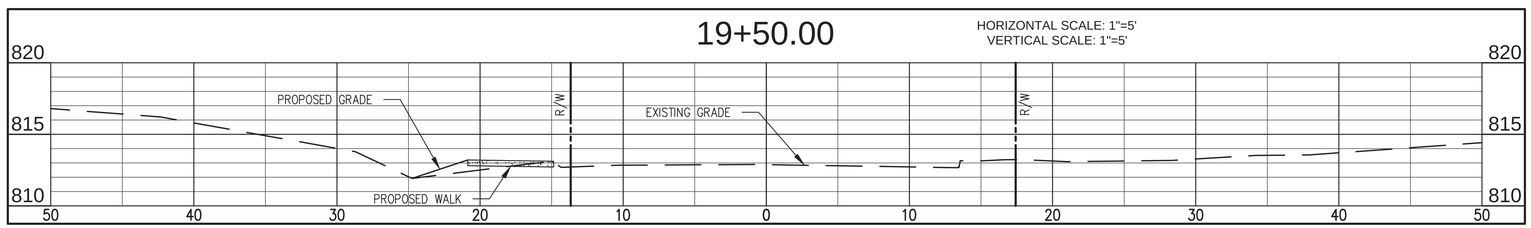
19+75.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



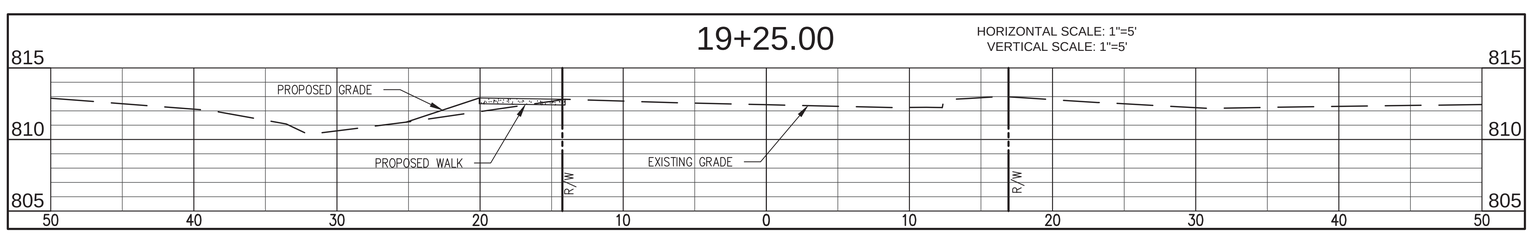
19+50.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



19+25.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



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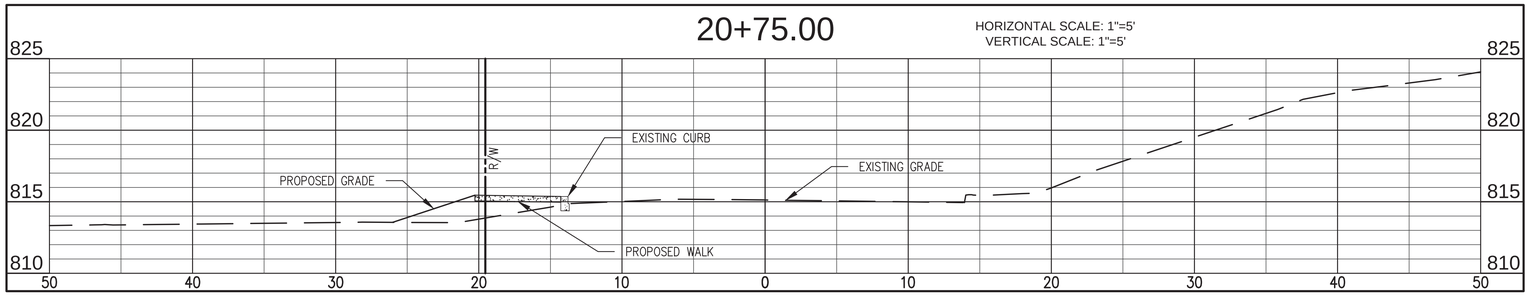
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C512
project no.: 402101

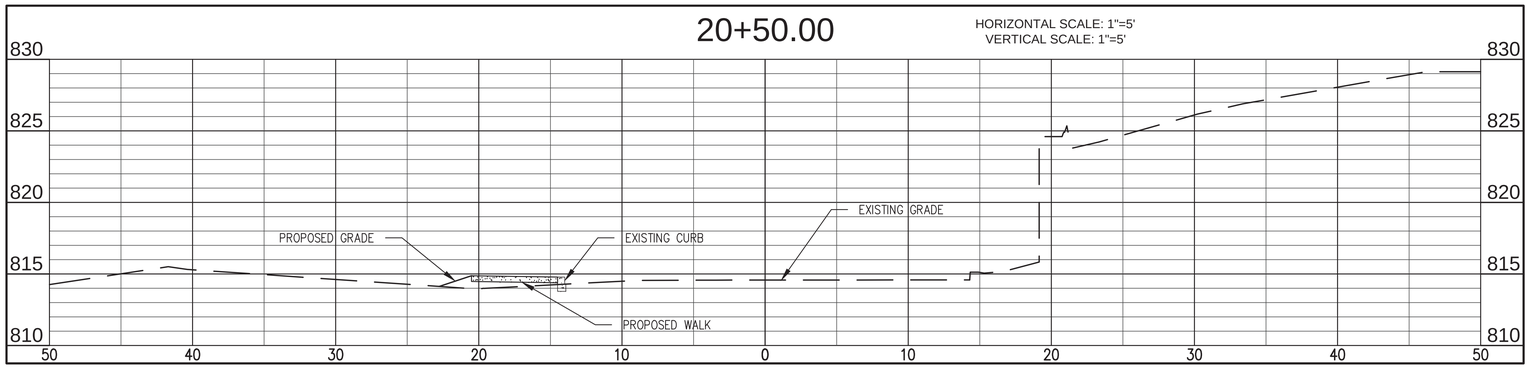
20+75.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



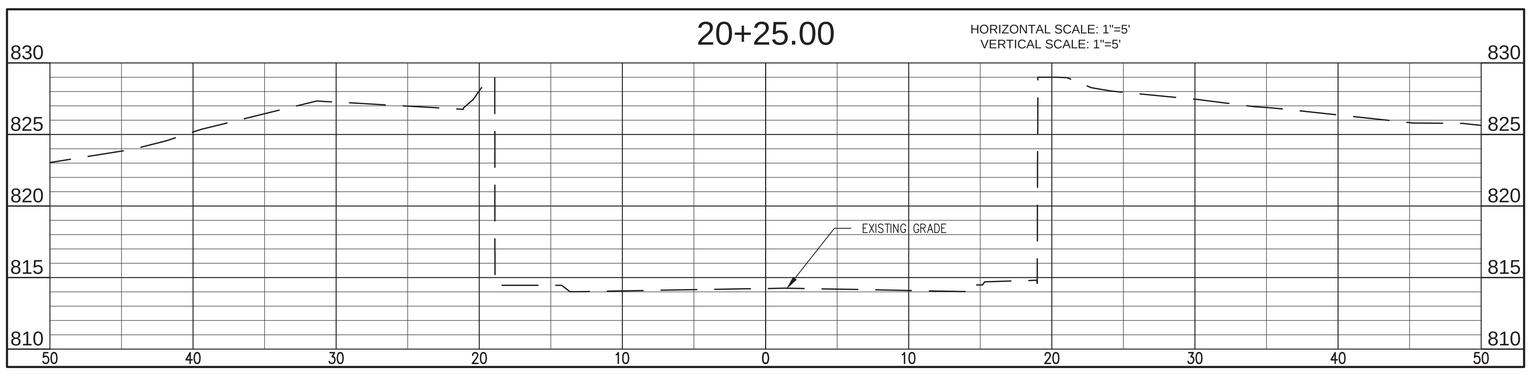
20+50.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



20+25.00

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=5'



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title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C513
project no.: 402101

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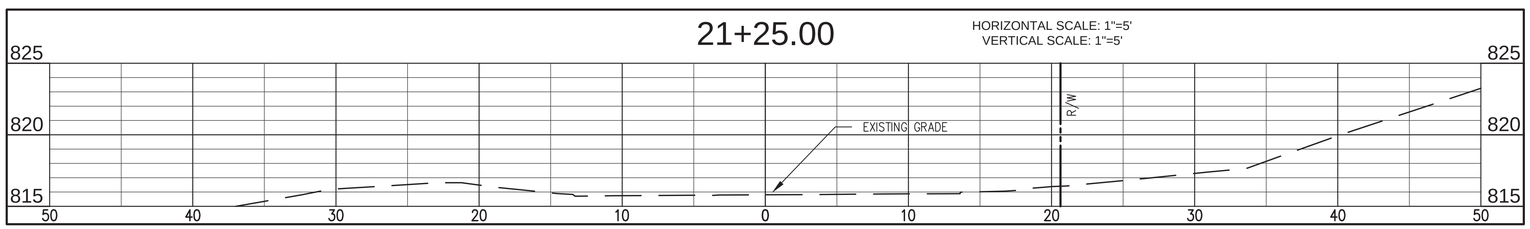

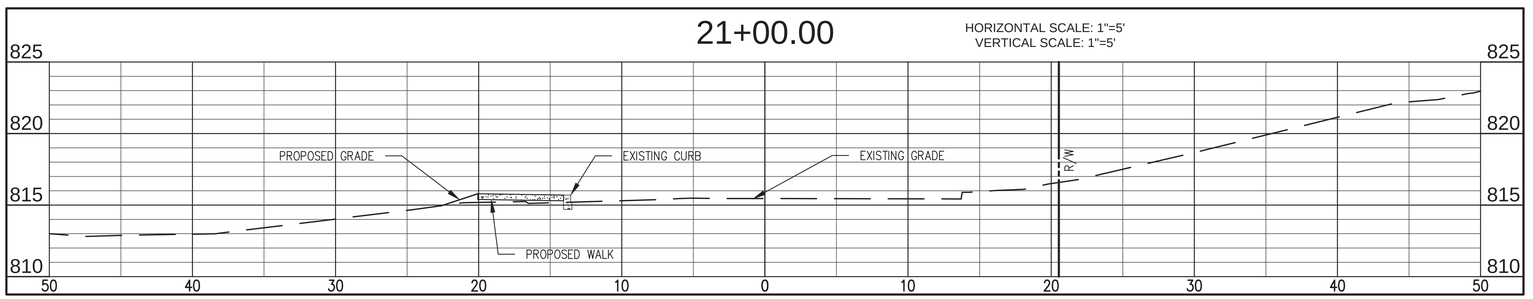

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title: R-1
CROSS-SECTIONS

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C514
project no.: 402101

PT LOT 2
WATERMANS ADD ADDITION
BLOOMINGTON MUNICIPAL
FACILITY CORP.

PT LOT 3
WATERMANS ADD ADDITION
BLOOMINGTON MUNICIPAL
FACILITY CORP.

EX. R/W

LOT 6
WATERMANS ADD ADDITION
JKM & ASSOCIATES, LLC
IN. NO. 2016014285

LOT 5
WATERMANS ADD ADDITION
JKM & ASSOCIATES, LLC
IN. NO. 2016014285

LOT 4
WATERMANS ADD ADDITION
MURPHY, MATTHEW
IN. NO. 2020018101

PT LOT 3
WATERMANS ADD ADDITION
MURPHY, MATTHEW
IN. NO. 2004005859

PT LOT 2
WATERMANS ADD ADDITION
MURPHY, MATTHEW
IN. NO. 2004005859

PT LOT 1
WATERMANS ADD ADDITION
MURPHY, MATTHEW
IN. NO. 2013013084

EX. R/W

PL

EX. BUILDING

EX. BUILDING

EX. BUILDING

EX. GRAVEL

EX. R/W

EX. WALK

TEMPORARY R/W
AREA: 268 S.F.

PERMANENT R/W
AREA: 47 S.F.

TEMPORARY R/W
AREA:1,243 S.F.

PERMANENT R/W
AREA:47 S.F.

TEMPORARY R/W
AREA: 283 S.F.

PERMANENT R/W
AREA: 189 S.F.

TEMPORARY R/W
AREA: 84 S.F.

PERMANENT R/W
AREA: 72 S.F.

CURB INLET
T/C=808.02

SANITARY M.H.
T/C=807.81

COB

SCALE: 1"=10'

RIGHT-OF-WAY ACQUISITION

TEMPORARY RIGHT-OF-WAY

PERMANENT RIGHT-OF-WAY

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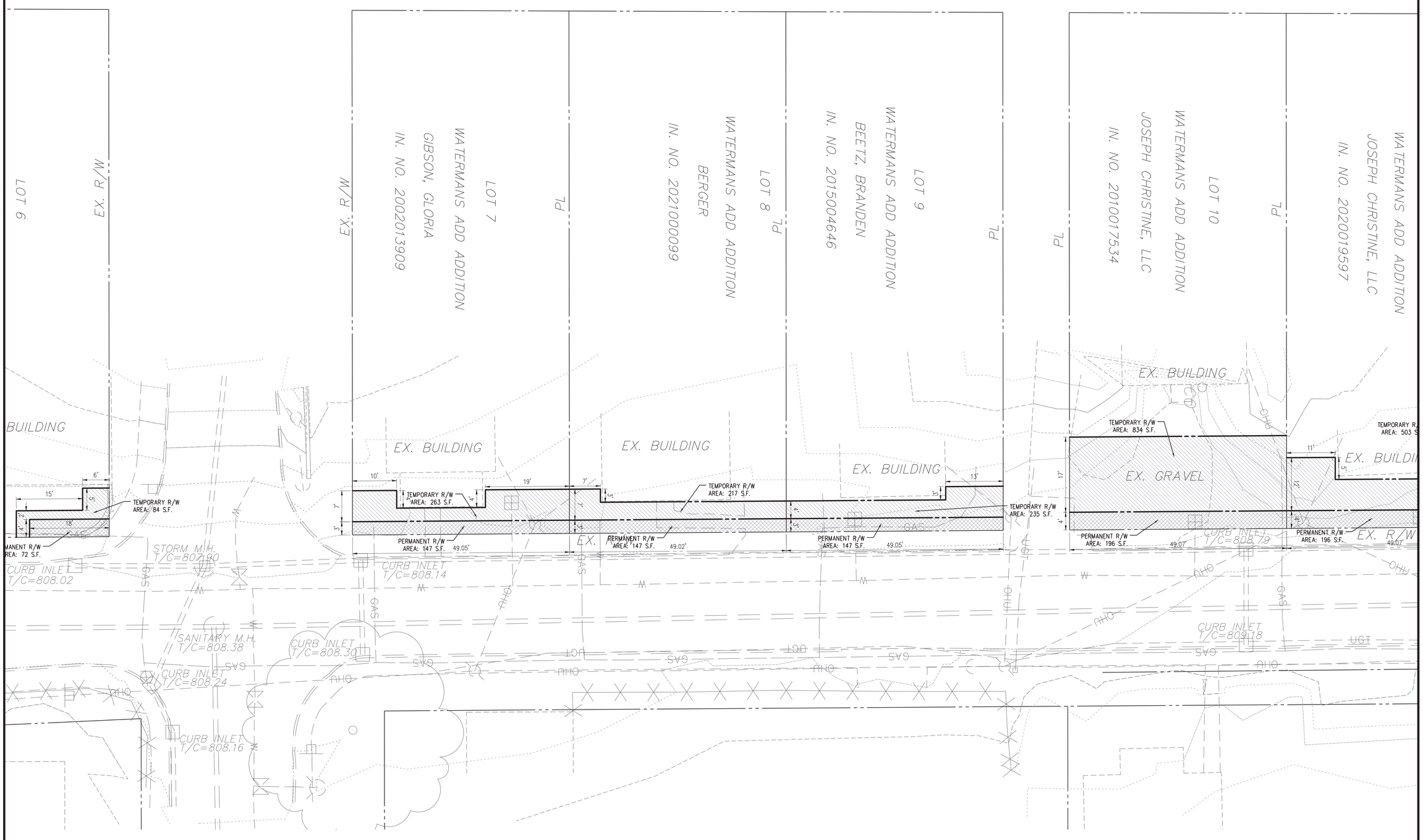
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: RIGHT-OF-WAY ACQUISITION

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C601
project no.: 402101



RIGHT-OF-WAY ACQUISITION

- TEMPORARY RIGHT-OF-WAY
- PERMANENT RIGHT-OF-WAY

SCALE: 1"=10'

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

BYNUM FANYO & ASSOCIATES, INC.
ARCHITECTURE
CIVIL ENGINEERING
PLANNING
528 north walnut street
(812) 332-8030
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(812) 339-2990 (Fax)

JEFFREY S. FANYO
No. 60018283
STATE OF INDIANA
PROFESSIONAL ENGINEER

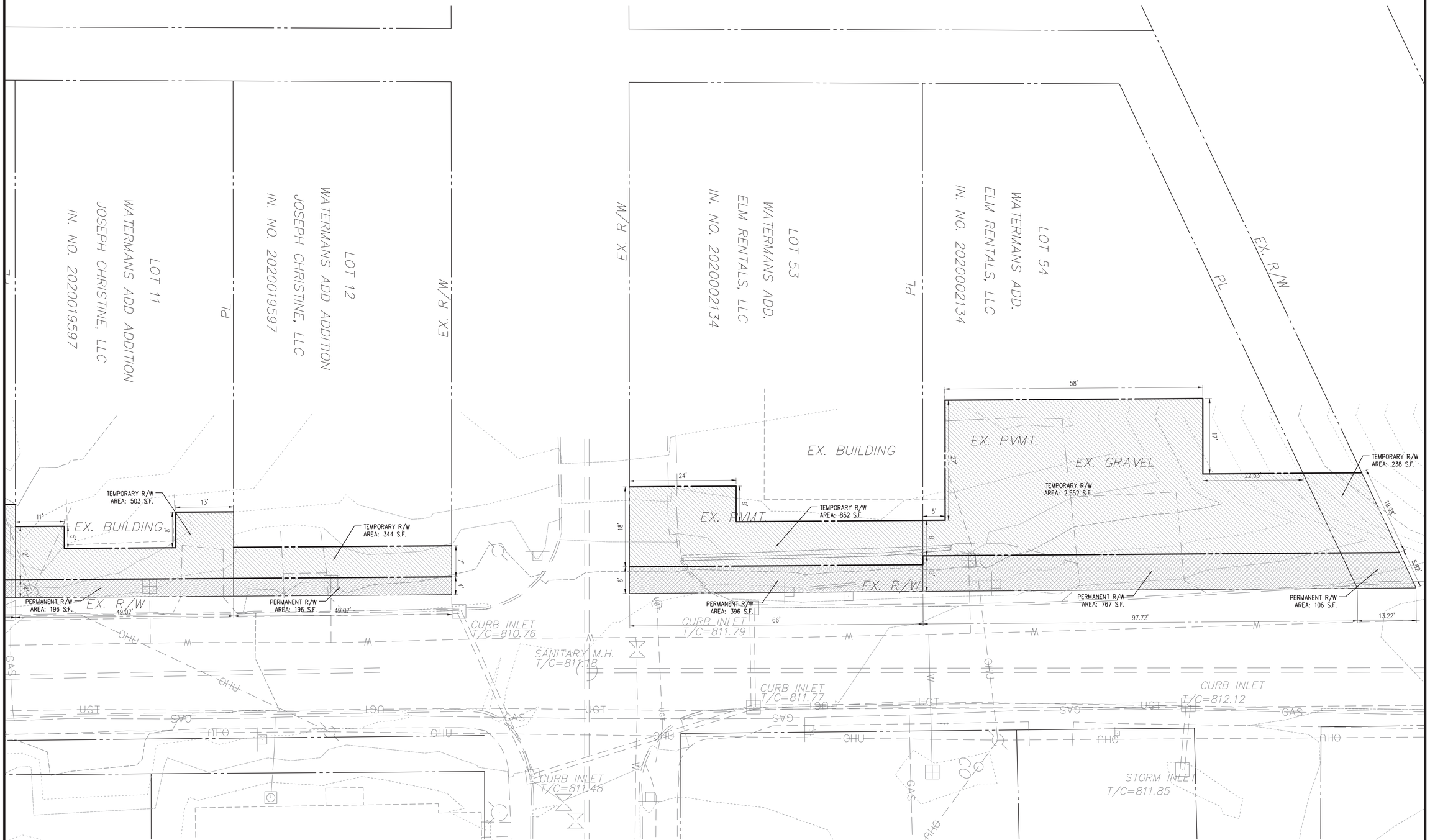
10.10.23

certified by:

PROPOSED
ADAMS STREET SIDEWALK
NORTH ADAMS STREET, BLOOMINGTON, IN 47404
FROM W. KIRKWOOD AVE. TO THE INTERSECTION
OF W. 8TH ST. AND W. FOUNTAIN DR.

title: RIGHT-OF-WAY ACQUISITION

designed by: AJW
drawn by: AJW
checked by: JSF
sheet no: C602
project no.: 402101



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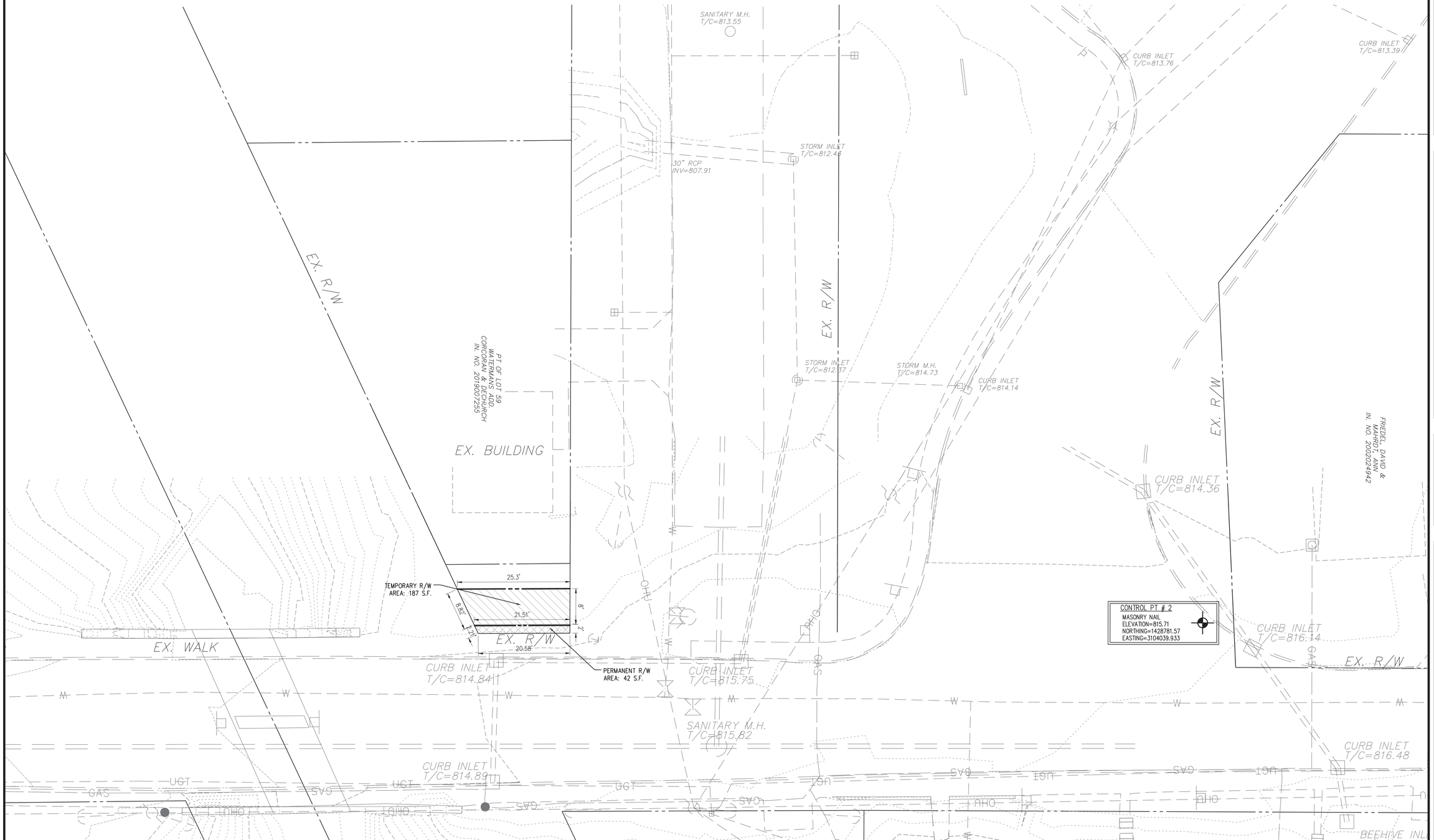

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