

TOWN OF FRANKTON MADISON COUNTY, INDIANA

STORMWATER IMPROVEMENTS PHASE 2

MAY 2024

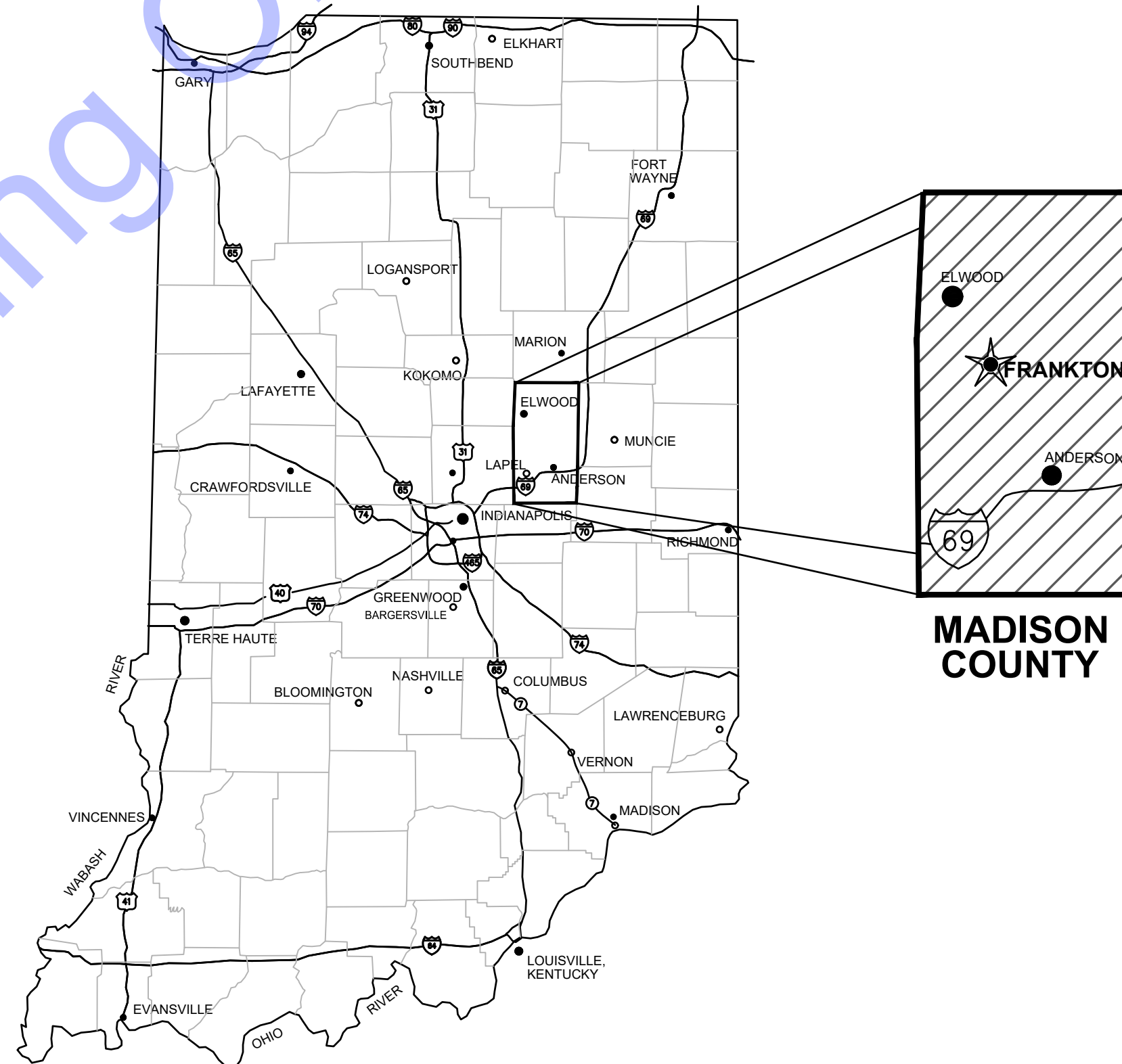
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LARRY SHIVELY **MEMBER**
RUSSELL BRASHEAR **MEMBER**
TIMOTHY DETRICK **CLERK-TREASURER**

STORMWATER BOARD

LARRY SHIVELY **PRESIDENT**
COURTNEY PRUITT **SECRETARY**
CHUCK COVELL **MEMBER**

DAN PARKS **UTILITY SUPERINTENDENT**
JEREMY FETTY **TOWN ATTORNEY**



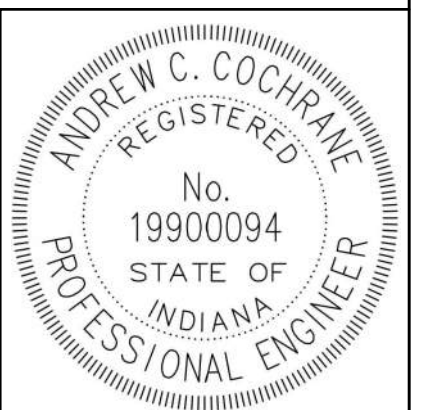
GENERAL LOCATION MAP



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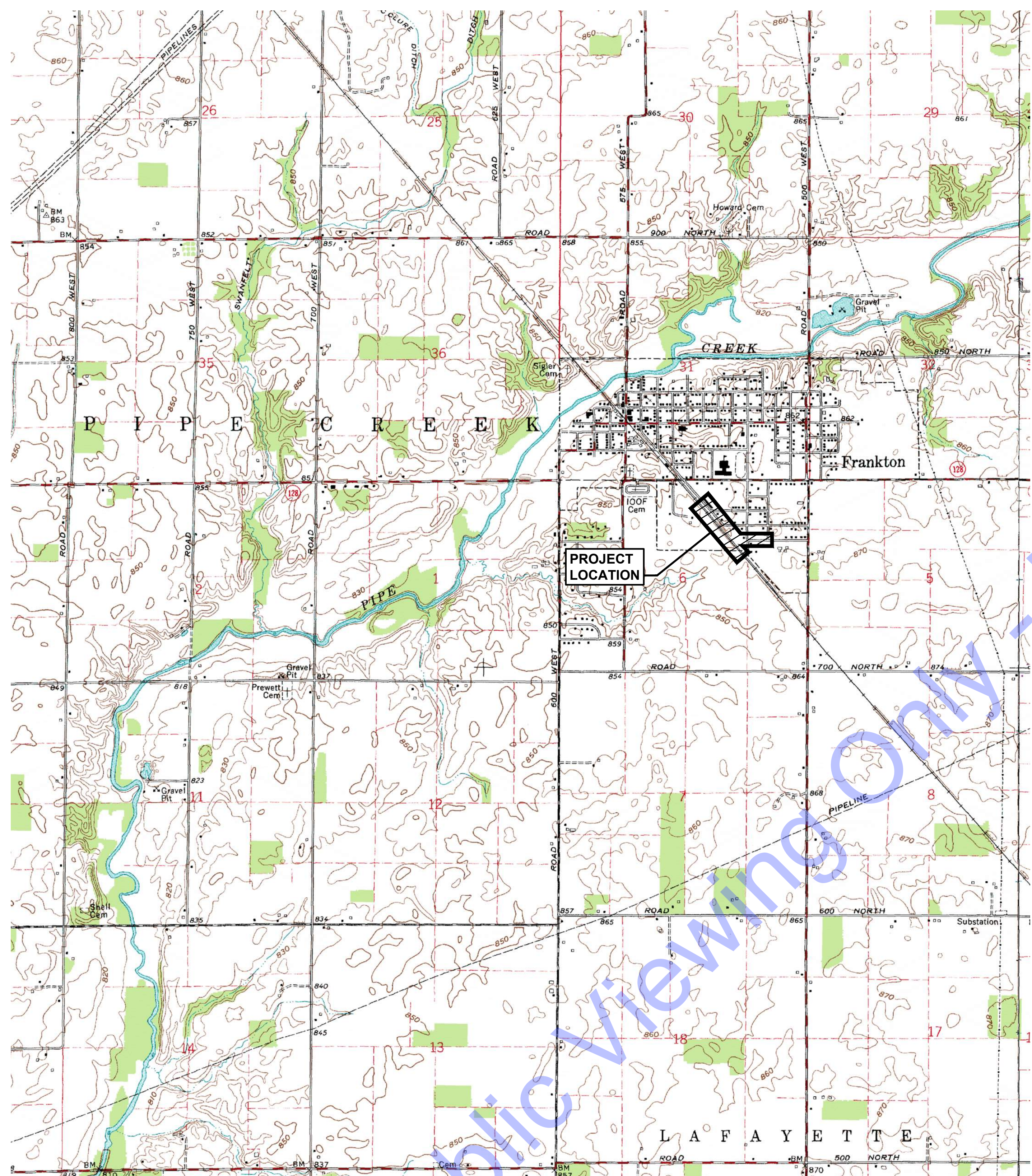
CERTIFIED BY : Andrew C. Cochrane **5-7-24**
 ANDREW C. COCHRANE **DATE :**
 INDIANA P.E. No. 19900094

QA/QC BY : BENJAMIN H. ADAMS **5-7-24**
 **DATE :**



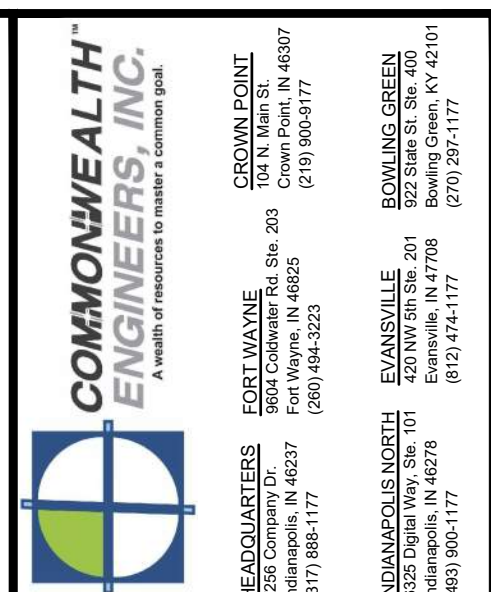
CONTRACT NO. : D24059

FILE: Z:\SHARED\IN CLIENTS\4\LEFANT\COND\01113\STORMWATER IMPROVEMENTS\CADD\CURRENT FILES\1\DRAWINGS\PHASE 2\02 LOCATION MAP AND INDEX.DWG
 SHEET: 5/8/2024 12:16:40 PM Project: 552024 1217.05 Pl. Content: 08/12/2024 12:17:05 PM



PROJECT LOCATION MAP
 SCALE: 1"=1,500'-0"
 0 1,500' 3,000'

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ANDREW C. COCHRANE
 REGISTERED PROFESSIONAL ENGINEER
 No. 19900094
 STATE OF INDIANA
 Signature: Andrew C. Cochrane Date: 5-7-24

TOWN OF FRANKTON
 MADISON COUNTY, INDIANA
**STORMWATER IMPROVEMENTS
 PHASE 2**

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Designed By: ACC Drawn By: JRD Checked By: BHA
 Issue Date: 05-07-2024 Project No: D24059 Scale: AS SHOWN

GENERAL LOCATION MAP AND SHEET INDEX

Drawing No: **G2**
 Sheet: 02 OF 20

SITE PLAN LEGEND

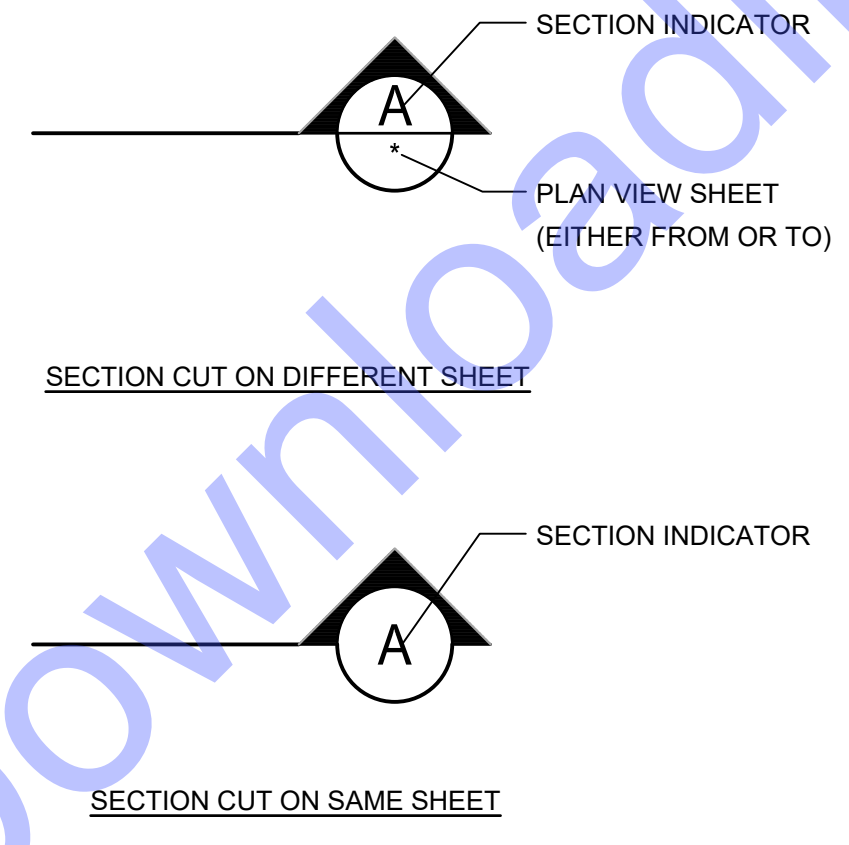
- | | |
|--|--------------------------------------|
| | EXISTING TELEPHONE LINE |
| | EXISTING GAS LINE |
| | EXISTING APPARENT GAS LINE ABANDONED |
| | EXISTING GAS VALVE |
| | EXISTING WATER LINE |
| | EXISTING WATER VALVE |
| | EXISTING FIBER OPTIC LINE |
| | EXISTING OVERHEAD ELECTRIC LINE |
| | EXISTING BURIED ELECTRIC |
| | EXISTING NON-POTABLE WATER LINE |
| | EXISTING POTABLE WATER LINE |
| | EXISTING BURIED TELEPHONE LINE |
| | EXISTING FENCE |
| | APPARENT RIGHT-OF-WAY |
| | APPARENT PROPERTY LINE |
| | EDGE OF DRIVE |
| | EDGE OF DRIVE WITH CURB |
| | EXISTING MAJOR CONTOUR LINE |
| | EXISTING MINOR CONTOUR LINE |
| | NEW CONCRETE SIDEWALK |
| | NEW WATER LINE |
| | PROPOSED MAJOR CONTOUR LINE |
| | PROPOSED MINOR CONTOUR LINE |

- | | |
|--|-------------------------------------|
| | MONUMENT |
| | CONTROL POINT |
| | FLAG POLE |
| | POST |
| | STUMP |
| | BUSH / HEDGE |
| | DECIDUOUS TREE |
| | CONIFEROUS TREE |
| | SIGN |
| | LARGE ROCK |
| | MAIL BOX |
| | UTILITY LOCATE FLAG |
| | GAS METER |
| | GAS VALVE |
| | GAS LINE MARKER |
| | POWER POLE |
| | LIGHT POLE |
| | ELECTRIC METER |
| | GUY WIRE |
| | ELECTRIC PANEL |
| | TEL/TV PEDESTAL |
| | TELEPHONE MANHOLE |
| | TELEPHONE MARKER |
| | COMMUNICATION HAND HOLE BOX |
| | WATER METER |
| | VALVE |
| | FIRE HYDRANT |
| | FLUSH HYDRANT |
| | EXISTING PIPE PLUG |
| | EXISTING STORM INLET |
| | EXISTING STORM CATCH BASIN (SQUARE) |
| | EXISTING STORM CATCH BASIN (ROUND) |
| | EXISTING STORM BEEHIVE |
| | EXISTING STORM MANHOLE |
| | EXISTING SANITARY MANHOLE |
| | EXISTING TRAFFIC MANHOLE |
| | TOP OF PIPE |
| | NEW STORM CURB INLET |
| | NEW STORM INLET SQUARE |
| | NEW STORM INLET ROUND |
| | NEW STORM CATCH BASIN BEHIVE |
| | NEW STORM MANHOLE |
| | NEW STORM END SECTION |
| | NEW VALVE |
| | NEW FIRE HYDRANT |
| | NEW FLUSH HYDRANT |
| | NEW WET SADDLE AND VALVE BODY |
| | NEW PLUG |
| | NEW LINE STOP |

HATCHING SYMBOLS

- | | |
|--|--|
| | -CMU WALL (PLAN VIEW) |
| | -GRANULAR BACKFILL (PROFILE VIEW) |
| | -DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND SCHEDULES.) |
| | -GROUT |
| | -CONCRETE |
| | -STEEL |
| | -COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION |
| | -ABANDONED IN PLACE |

TYPICAL SECTION CUTS



GENERAL NOTES:

- ALL PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPARENT AND SHALL NOT BE DEEMED AS EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED THROUGH INDIANA ON-LINE GIS WEBSITE.
- CONTRACTOR SHALL MAINTAIN 10'-0" HORIZONTAL AND 1'-6" VERTICAL SEPARATION BETWEEN SEWERS (INCLUDING SERVICE LATERALS & WATER MAINS IN ACCORDANCE WITH IDEM REQUIREMENTS, UNLESS SPECIFICALLY NOTED IN THE PLANS OTHERWISE.) MANHOLES AND WATER MAINS SHALL HAVE MIN. 8'-0" SEPARATION, UNLESS OTHERWISE NOTED IN PLANS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING LOCATIONS OF ALL EXISTING UTILITIES NEAR ALL PROPOSED WORK ACTIVITIES. IF UTILITY CONFLICTS OCCUR, CONTRACTOR SHALL NOTIFY RPR PRIOR TO PROCEEDING WITH WORK.

- ALL EXPOSED PROCESS PIPING (EXCLUDING AIR PIPING) SHALL BE HEAT TRACED AND INSULATED. REFER TO ELECTRICAL DRAWINGS AND DETAILED SPECIFICATIONS FOR ADDITIONAL DETAILS.
 - EXISTING UTILITY INFORMATION SHOWN IN DRAWINGS, MEETS "ASCE 38-02" QUALITY LEVEL C, UNLESS OTHERWISE NOTED.
- UTILITY COLLECTION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:**
UTILITY QUALITY DESCRIPTIONS:
- UTILITY QUALITY LEVEL A:** PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.
- UTILITY QUALITY LEVEL B:** INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL

POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT

UTILITY LEVEL C: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL D INFORMATION.

UTILITY LEVEL D: INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

DISCLAIMER NOTE:
 THIS DRAWING REFLECTS TYPICAL INFORMATION, SOME MAY NOT BE APPLICABLE TO THIS PROJECT.

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 100 N. Main St.
 46033
 (219) 960-1777

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 46805
 (317) 886-1177

ELANSVILLE
 420 N. 7th St.
 46121
 (317) 944-3233

INDIANAPOLIS NORTH
 14050 Digital Way, Ste. 311
 Indianapolis, IN 46278
 (317) 944-1177

ANDREW C. COCHRANE
 REGISTERED PROFESSIONAL ENGINEER
 No. 19900094
 STATE OF INDIANA
 Signature: Andrew C. Cochran Date: 5-7-24

**TOWN OF FRANKTON
 MADISON COUNTY, INDIANA
 STORMWATER IMPROVEMENTS
 PHASE 2**

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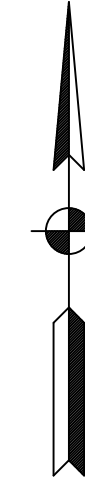
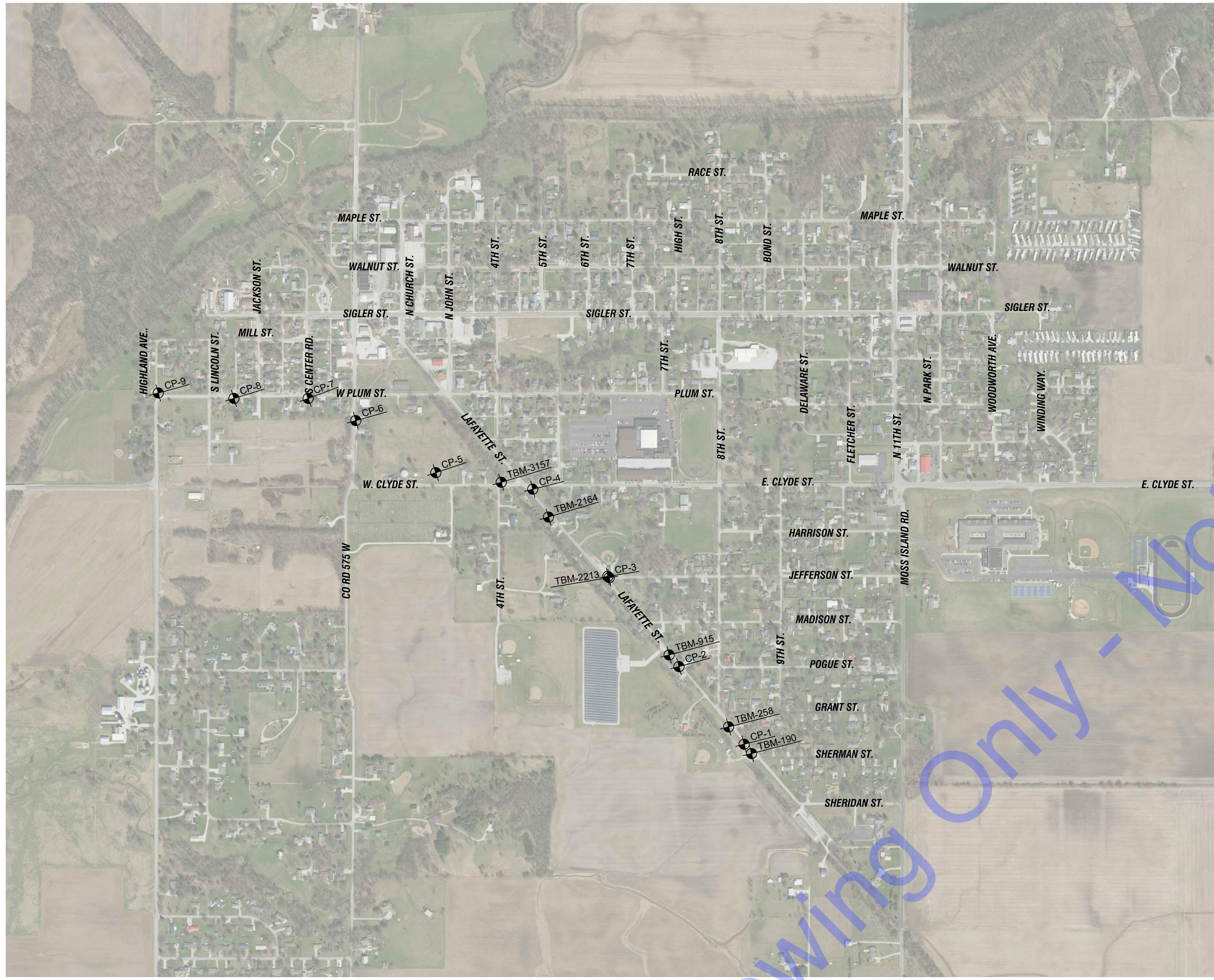
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Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

**GENERAL NOTES,
 ABBREVIATIONS AND
 SYMBOLS**

Drawing No:
G3
 Sheet: 03 OF 20



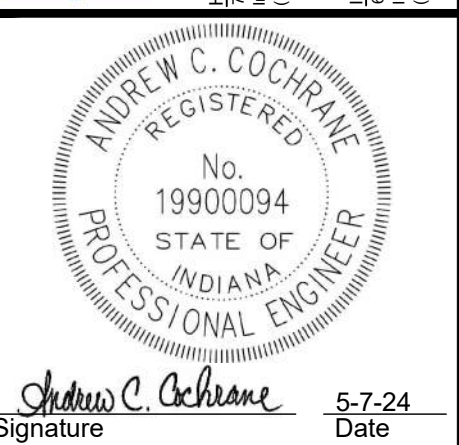
PROJECT LOCATION MAP

SCALE: 1"=500'-0"
 0 500' 1,000'

SURVEY INFORMATION			
IDENTIFIER	NORTHING	EASTING	DESCRIPTION
CP-1	1808818.29	299090.35	CAPPED REBAR
CP-2	1809381.85	298617.37	CAPPED REBAR
CP-3	1810036.37	298101.26	CAPPED REBAR
CP-4	1810668.94	297556.83	CAPPED REBAR
CP-5	1810789.2	296853.18	CAPPED REBAR
CP-6	1811167.23	296272.82	CAPPED REBAR
CP-7	1811327.92	295926.24	CAPPED REBAR
CP-8	1811328.02	295388.72	CAPPED REBAR
CP-9	1811366.83	294839.70	CAPPED REBAR

SURVEY INFORMATION				
IDENTIFIER	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM-3157	1810719.42	297327.83	864.14	TBM /CUT S BONNETBOLT
TBM-2164	1810467.24	297671.33	854.09	TBM /BOATSPK 1UP NE SIDE PPE22
TBM-2213	1810027.52	298112.32	858.67	TBM /BOATSPK 1UP SW SIDE PPE179
TBM-915	1809466.49	298546.18	864.14	TBM /CUTSQAURE TOP BOLLARD
TBM-258	1808944.20	298977.32	861.89	TBM /BTSPK 1UP WSIDE PPE43
TBM-190	1808750.70	299144.06	863.50	TBM /BOATSPK 1UP SSIDE PP

Project coordinates are based on the following:
HORIZONTAL-US State plane coordinates: NAD83 (North American Datum) Indiana East Zone (1301)
VERTICAL-USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)



Signature: Andrew C. Cochrane Date: 5-7-24

**TOWN OF FRANKTON
 MADISON COUNTY, INDIANA
 STORMWATER IMPROVEMENTS
 PHASE 2**



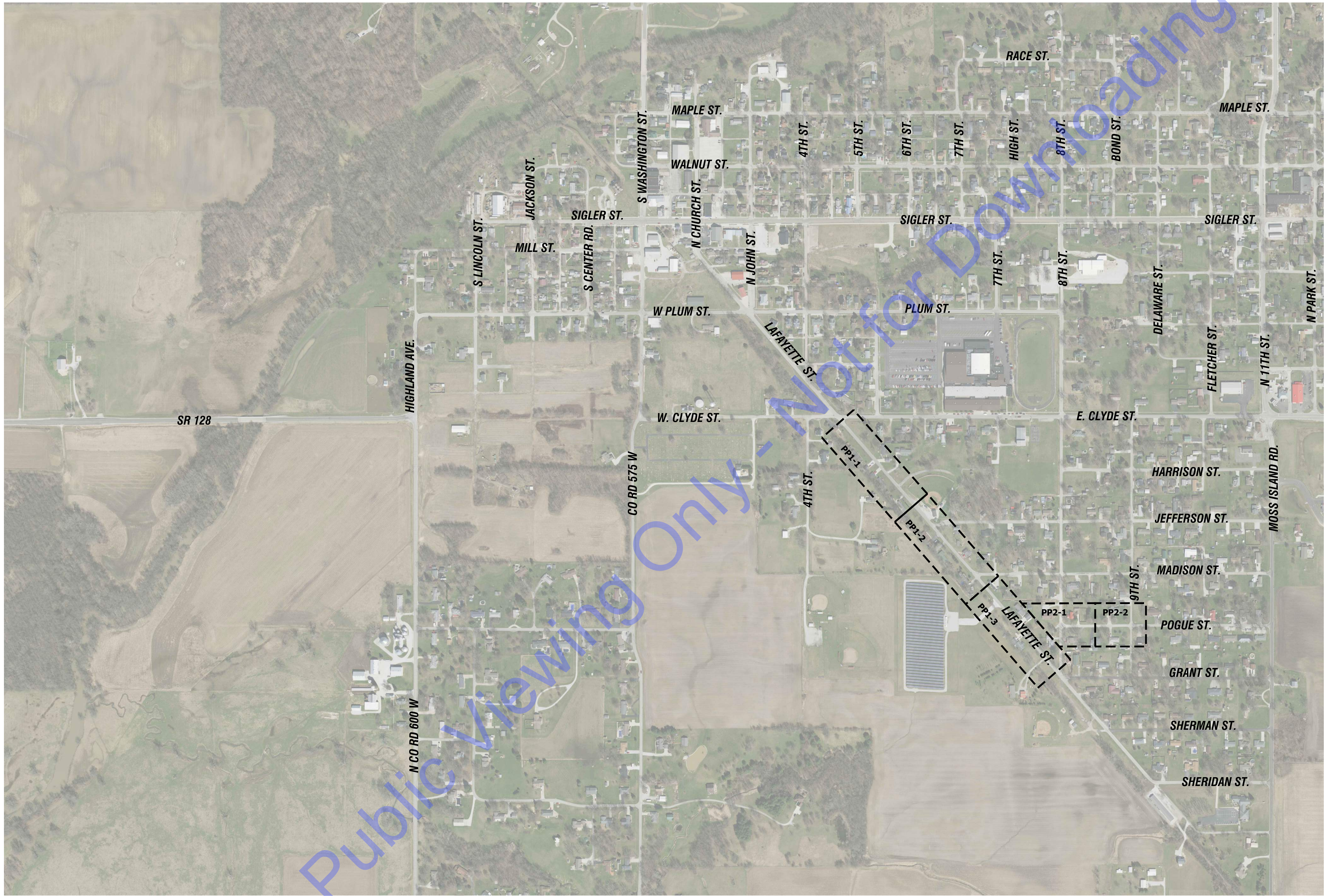
No.	Submittal / Revision	By	Date

Designed By: ACC Drawn By: JRD Checked By: BHA
 Issue Date: 05-07-2024 Project No: D24059 Scale: AS SHOWN

SURVEY DATA

Drawing No:
G4
 Sheet: 04 OF 20

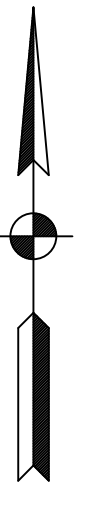
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 Sheet: 05 of 02 Date: 05/07/2024 12:16:01 PM Plotted: 05/07/2024 12:18:01 PM Current User: George Engel Last Saved By: gengel



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DRAWING INDEX MAP

SCALE: 1"=300'-0"
 0 300' 600'



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 6000 Colchester Rd.
 Crown Point, IN 46037
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 420 N W 25th St.
 Evansville, IN 47708
 (812) 424-1177

BOWLING GREEN
 922 2nd St. SE.
 Bowling Green, KY 40301
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REGISTERED PROFESSIONAL ENGINEER
 No. 19900094
 STATE OF INDIANA
 Andrew C. Cochrane
 Signature Date 5-7-24

**TOWN OF FRANKTON
 MADISON COUNTY, INDIANA**

**STORMWATER IMPROVEMENTS
 PHASE 2**

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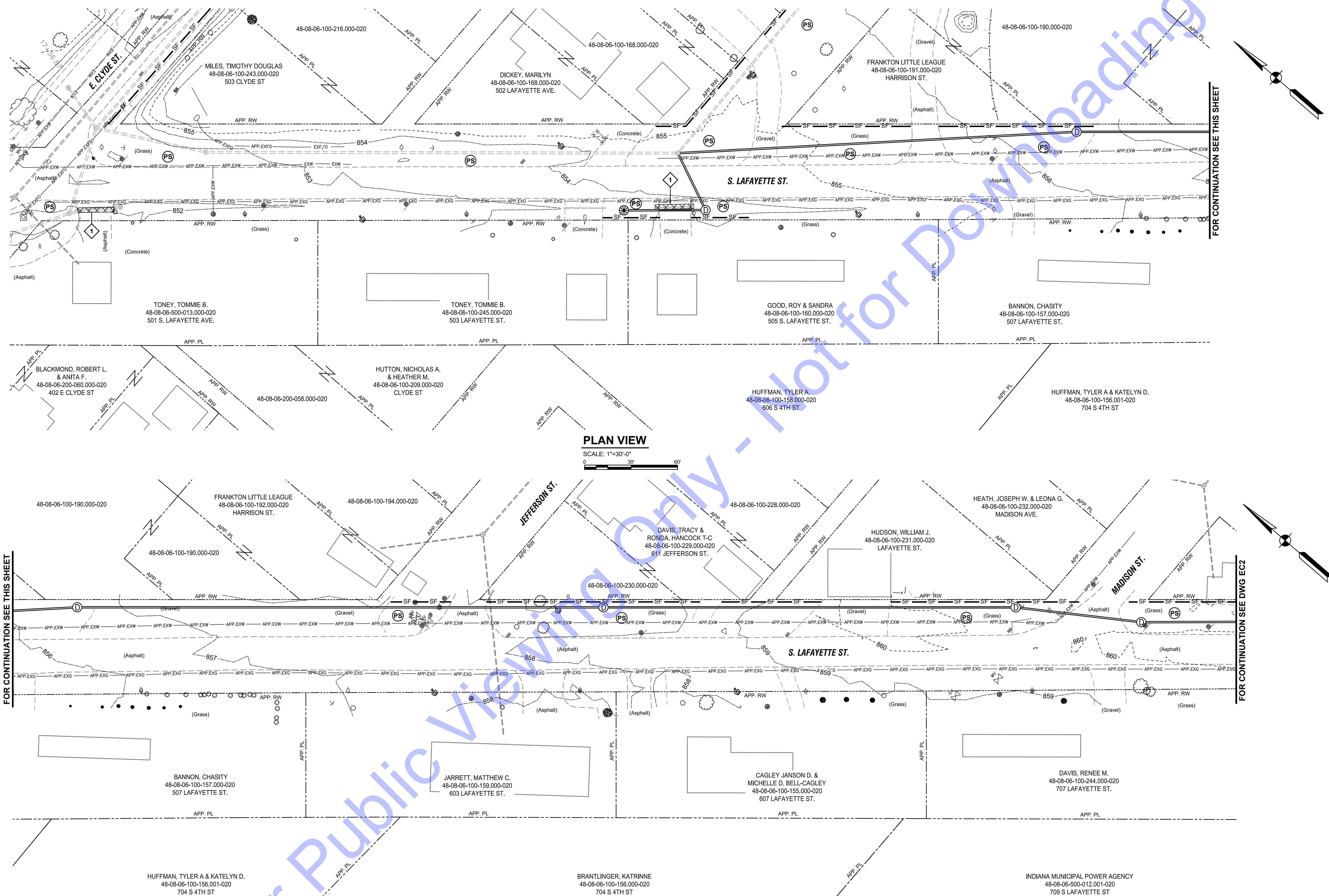
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Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

DRAWING INDEX MAP

Drawing No:
G5
 Sheet: 05 OF 20

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 Project: 5/8/2024 12:20:52 PM
 Comment: User: George Roper
 User: George Roper
 User: George Roper



PLAN VIEW
SCALE: 1"=30'-0"

PLAN VIEW
SCALE: 1"=30'-0"

- LEGEND:**
- (IP) STORM INLET PROTECTION
 - (PS) PERMANENT SEEDING
 - SF SILT FENCE
 - CW CONCRETE WASHOUT

- DEMOLITION KEYNOTES:**
1. REMOVE EX. PIPE
 2. CUT AND GROUT FILL EX. PIPE

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Evansville, IN 47718
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Fax: (317) 488-1177

CROWN POINT:
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Evansville, IN 47718
(317) 488-1177
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ELANSVILLE:
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(317) 488-1177
Fax: (317) 488-1177

REGISTERED PROFESSIONAL ENGINEER
No. 19900094
STATE OF INDIANA
Andrew C. Cochrane
Signature Date 5-7-24

**TOWN OF FRANKTON
MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
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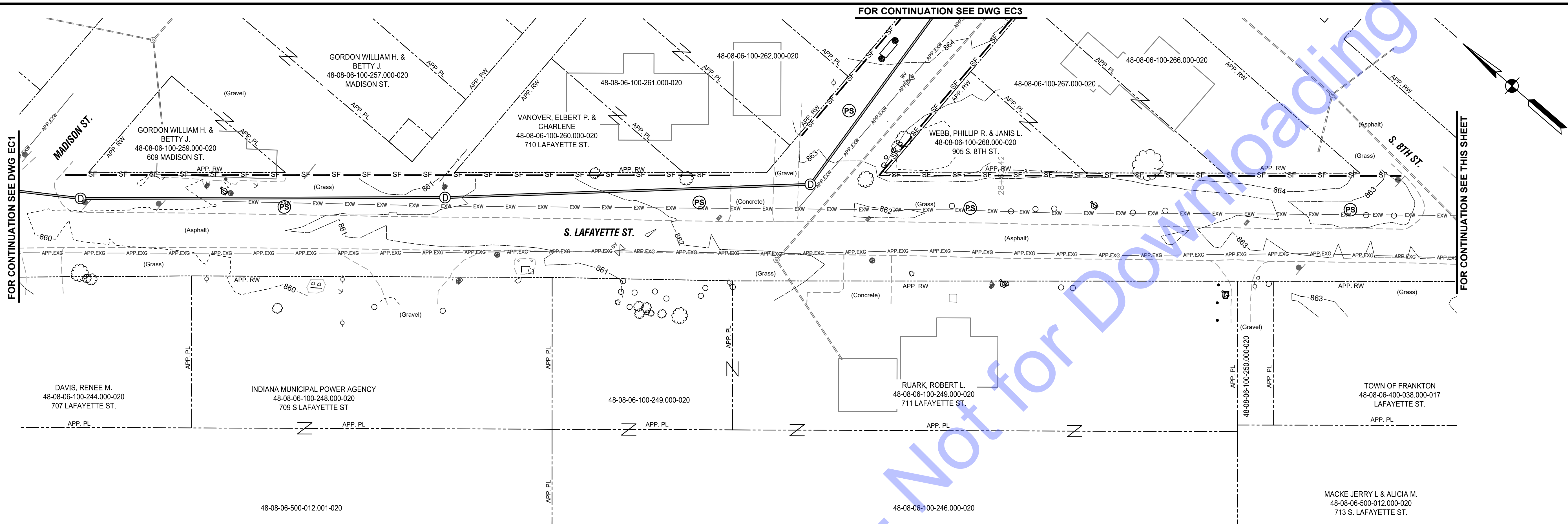
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EROSION CONTROL AND DEMOLITION PLAN

Drawing No:
EC1

Sheet: 06 OF 20

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PLAN VIEW
 SCALE: 1"=30'-0"
 0 30' 60'

LEGEND:

- (IP) STORM INLET PROTECTION — SF SILT FENCE
- (PS) PERMANENT SEEDING [CW] CONCRETE WASHOUT

DEMOLITION KEYNOTES:

1. REMOVE EX. PIPE
2. CUT AND GROUT FILL EX. PIPE

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---	--

ANDREW C. COCHRANE

No. 19900094
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Andrew C. Cochran 5-7-24
 Signature Date

TOWN OF FRANKTON MADISON COUNTY, INDIANA STORMWATER IMPROVEMENTS PHASE 2

No.	Submitted / Revision	By	Date

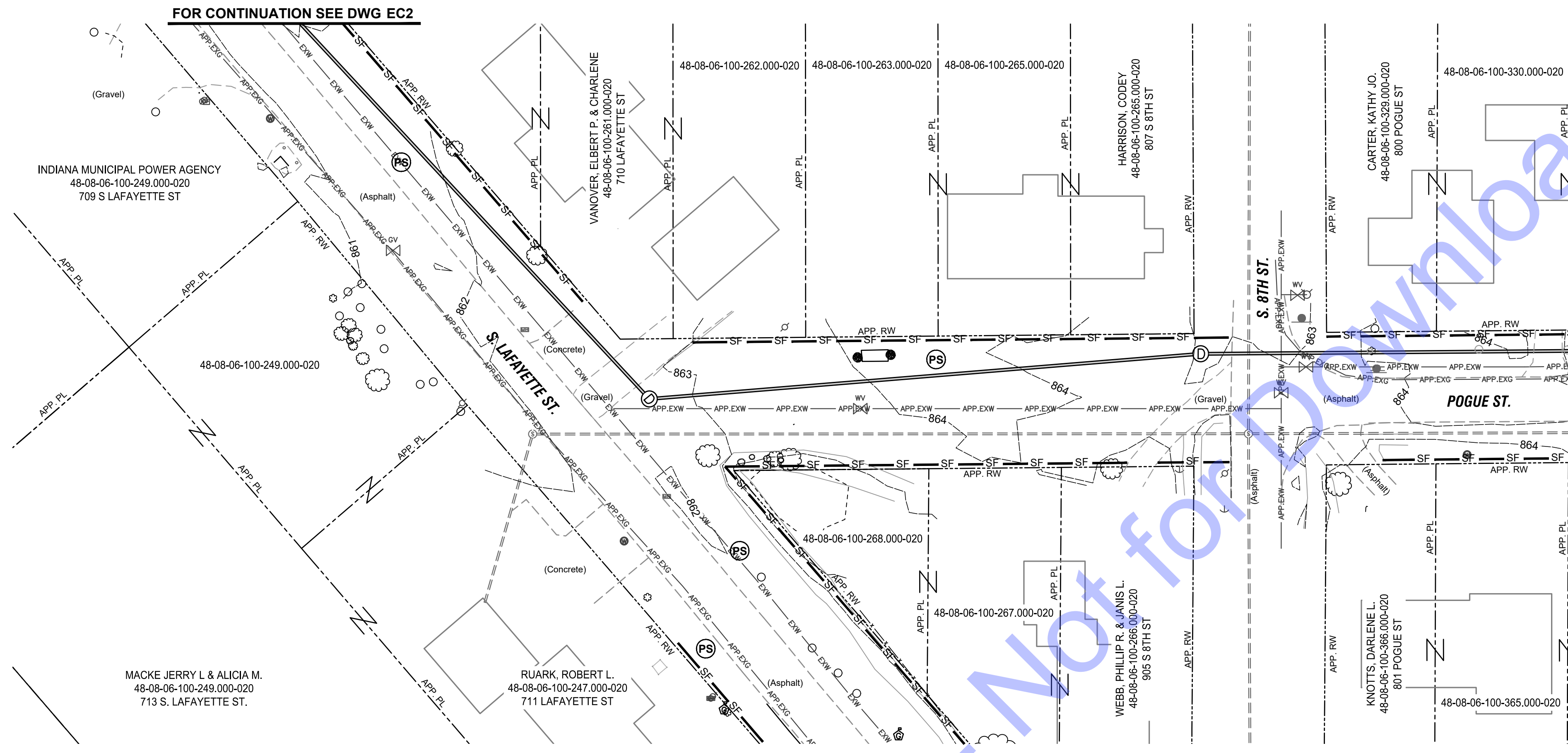
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EROSION CONTROL AND DEMOLITION PLAN

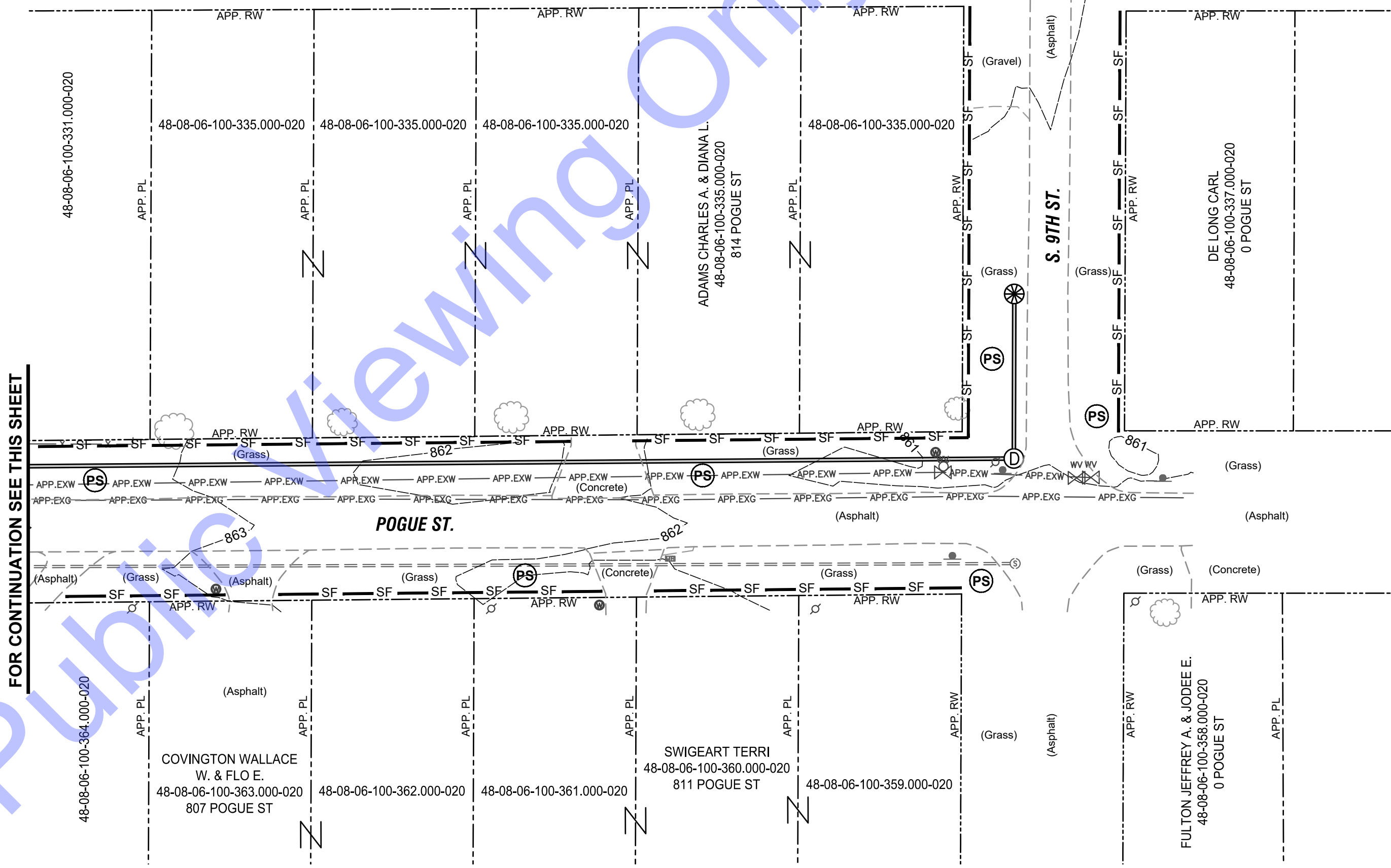
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 Sheet: 07 OF 20

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PLAN VIEW
 SCALE: 1"=30'-0"
 0 30 60



PLAN VIEW
 SCALE: 1"=30'-0"
 0 30 60

- LEGEND:**
- (IP) STORM INLET PROTECTION
 - (PS) PERMANENT SEEDING
 - SF — SILT FENCE
 - [CW] CONCRETE WASHOUT
- DEMOLITION KEYNOTES:**
1. REMOVE EX. PIPE
 2. CUT AND GROUT FILL EX. PIPE

FOR CONTINUATION SEE THIS SHEET

FOR CONTINUATION SEE THIS SHEET

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 Bowling Green, IN 47108
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REGISTERED PROFESSIONAL ENGINEER
 No. 19900094
 STATE OF INDIANA
 Andrew C. Cochrane
 Signature Date 5-7-24

**TOWN OF FRANKTON
 MADISON COUNTY, INDIANA
 STORMWATER IMPROVEMENTS
 PHASE 2**

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Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

EROSION CONTROL AND DEMOLITION PLAN

CONSTRUCTION PLAN - GENERAL PLAN COMPONENTS (SECTION A)

A1: INDEX OF THE LOCATION OF REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN:
THIS DOCUMENT REPRESENTS THE PLAN INDEX. THE CONTENT IS ORGANIZED AROUND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT CONSTRUCTION STORMWATER GENERAL PERMIT CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN DEVELOPMENT GUIDANCE. DETAILS ARE SPECIFIC TO THE TOWN OF FRANKTON STORMWATER UTILITY IMPROVEMENTS PROJECT.

A2: A VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO RECOGNIZABLE LOCAL LANDMARKS, TOWNS, AND MAJOR ROADS:
THIS INFORMATION HAS BEEN INCLUDED AND IS SHOWN IN THE PLANS. A USGS SITE MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS ALSO SHOWN IN THE PLANS. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING RIGHT OF WAYS, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN OF FRANKTON.

A3: NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT:
THE TOWN OF FRANKTON SUFFERS FROM FREQUENT FLOODING DURING WET WEATHER EVENTS. EXISTING STORMWATER INFRASTRUCTURE IS LIMITED TO THE HULDA MILLER DITCH WHICH IS A LEGAL DRAIN THAT TRANSPORTS WATER TO PIPE CREEK. THE PROPOSED PROJECT ADDS STORM SEWER INFRASTRUCTURE TO THE TOWN OF FRANKTON TO DRAIN AREAS THAT ARE NOT CURRENTLY DRAINED BY HULDA MILLER DITCH. THE NEW STORM SEWER INFRASTRUCTURE WILL PREVENT PROPERTY DAMAGE FOR RESIDENTS AND HELP DECREASE SAFETY CONCERNS DURING WET WEATHER EVENTS.

THE PROPOSED PROJECT IS SHOWN IN THE PLAN SHEETS. THE GENERAL LOCATION OF THE PROJECT IS SHOWN ON A USGS TOPOGRAPHIC MAP IN THE PLANS.

A4: LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS:
THIS APPROXIMATE LATITUDE AND LONGITUDE FOR THE PROJECT SITE IS 40.223841, -85.781892
THE PROJECT IS LINEAR, AND THIS MARKS A BEGINNING POINT OF THE PROJECT.

A5: LEGAL DESCRIPTION OF THE PROJECT SITE:
THE TOWN OF FRANKTON IS LOCATED PIPE CREEK AND LAFAYETTE TOWNSHIPS, MADISON COUNTY, INDIANA. THE PROJECT IS LOCATED IN SECTION 6 OF TOWNSHIP 20 N. RANGE 7 E. AND SECTION 31 OF TOWNSHIP 21 N. RANGE 7 E.

A6: 11X 17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES:
ALL LOT BOUNDARIES AND ROAD NAMES ARE SHOWN ON THE PLANS. ALL CONSTRUCTION WILL TAKE PLACE IN EXISTING RIGHT OF WAYS, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. A USGS MAP ILLUSTRATING THE APPROXIMATE EXTENT OF THE PROJECT IS SHOWN IN THE PLANS.

A7: BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS:
THE FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS LOCATED WITHIN THE PROJECT AREA ARE SHOWN IN EXHIBIT #1. WORK WITHIN THE FLOOD FRINGE INCLUDES THE INSTALLATION OF A NEW STORM PIPE AND OUTFALL THAT WILL DISCHARGE INTO THE HULDA MILLER DITCH, LOCATED ADJACENT TO THE INTERSECTION OF N CENTER ST AND W WALNUT ST.

A8: LAND USE OF ALL ADJACENT PROPERTIES:
LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN EXHIBIT #2. LAND USE IN THE PROJECT SITE IS PRIMARILY LOW INTENSITY DEVELOPED LAND. LAND USE ADJACENT TO THE PROJECT AREAS INCLUDES CULTIVATED CROPS, GRASSLANDS, AND WOODY WETLANDS.

A9: IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL:
THE PROJECT AREA IS LOCATED WITHIN THE SWANFELT DITCH-PIPE CREEK (051202010406) WATERSHED. PIPE CREEK IS INCLUDED IN THE DUCK, PIPE, KILLBUCK, STONY CREEK APPROVED TMDL FOR E. COLI AND PATHOGENS.

A10: NAME(S) OF THE RECEIVING WATER(S):
THE ONLY RECEIVING WATER BODIES IN THE PROJECT AREA ARE PIPE CREEK AND THE HULDA MILLER DITCH (LEGAL DRAIN) WHICH FLOWS INTO PIPE CREEK.

A11: IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS AND THE POLLUTANT FOR WHICH IT IS IMPAIRED:
PIPE CREEK IS NOT ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS.

A12: SOILS MAP OF THE PREDOMINATE SOIL TYPES:
THE SOILS MAP FOR THIS PROJECT IS SHOWN IN EXHIBIT #3. THE SOILS IN THE PROJECT AREA CONSIST MAINLY OF "CRA" "CROSBY SILT LOAM," WHICH HAS SLOPES BETWEEN 0 AND 2 PERCENT, "BS," "BROOKSTON SILTY CLAY," WHICH HAS SLOPES BETWEEN 0 AND 2 PERCENT, AND "MNB2," "MIAMI SILT LOAM," WHICH HAS SLOPES BETWEEN 2 AND 6 PERCENT.

CONSTRUCTION PROJECTS ARE NOT EXPECTED TO HAVE ANY DETRIMENTAL, LONG-TERM IMPACTS ON THE SOILS. SHORT TERM IMPACTS WILL RELATE ONLY TO EXCAVATION ACTIVITIES FOR THE PROPOSED SYSTEM IMPROVEMENTS AND WILL BE MINIMAL. THESE IMPACTS CAN BE MITIGATED USING APPROPRIATE TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION DURING AND AFTER CONSTRUCTION.

SEASONAL WETNESS IS LIKELY TO BE THE MAIN LIMITATION OF THE SOILS IN THE CONSTRUCTION AREA. FOR THIS PROJECT, CONSTRUCTION PROBLEMS ASSOCIATED WITH WET SOILS WILL BE BEST OVERCOME BY COMPLETING OPEN EXCAVATION WORK DURING FAVORABLE CONDITIONS AND COORDINATING WORK ACTIVITIES BASED UPON WEATHER AND SOIL CONDITIONS. UNDER SEVERE SOIL WETNESS CONDITIONS, QUICKLIME MAY BE USED TO HELP DRY WET SOILS FOR SITE ACCESS PURPOSES AND TO REDUCE DOWNTIME. THE DEPTH TO WATER TABLE IN THE PROJECT AREA VARIES SIGNIFICANTLY, FROM 0 CM TO GREATER THAN 200 CM.

A13: IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING LAYOUT):
ALL WETLANDS, LAKES, AND WATER COURSES LOCATED WITHIN AND NEARBY THE PROJECT AREA HAVE BEEN IDENTIFIED AND ARE SHOWN IN EXHIBIT #4 AND #5. THE MAJOR WATERWAY IN THE PROJECT AREA IS PIPE CREEK. STORMWATER DERIVED FLOW WILL GENERALLY DRAIN INTO PIPE CREEK AND THE HULDA MILLER DITCH. THERE ARE WETLANDS ADJACENT TO THE PROJECT SITE; HOWEVER, NO WORK IS PROPOSED WITHIN THE WETLANDS, ONLY ON RESIDENTIAL PROPERTY AND ROADWAYS NEARBY.

A14: IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:
THIS PROJECT WILL REQUIRE AN IDEM 401 WQC AS WELL AS NOTIFICATION TO THE USACE. DUE TO THE LOCATION OF WORK IN THE FLOOD FRINGE, NO DNR CONSTRUCTION IN A FLOODWAY PERMIT IS REQUIRED. ALL WATER QUALITY PERMITS DETERMINED TO BE REQUIRED BY THE PROJECT WILL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.

A15: IDENTIFICATION AND DELINEATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS:
LAND USE AT THE PROJECT SITE AND THE SURROUNDING AREAS IS SHOWN IN EXHIBIT #2. LAND USE IN THE PROJECT SITE IS PRIMARILY LOW INTENSITY DEVELOPED LAND. LAND USE ADJACENT TO THE PROJECT AREAS INCLUDES CULTIVATED CROPS, GRASSLANDS, AND WOODY WETLANDS. THIS PROJECT INVOLVES THE INSTALLATION OF STORM SEWER FACILITIES ON ROAD RIGHT OF WAYS, UTILITY EASEMENTS, AND TOWN OWNED PROPERTY. PROPER TECHNIQUES FOR EROSION CONTROL AND SURFACE RESTORATION, INCLUDING STABILIZATION WITH APPROPRIATE VEGETATIVE COVER, WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN DS-09 "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING," BOTH UNDER SEPARATE ATTACHMENT.

THE PROJECT INCLUDES THE INSTALLATION OF A STORM PIPE AND OUTFALL THAT WILL DISCHARGE IN THE HULDA MILLER DITCH. WHILE THIS AREA IS CONSIDERED A NATURAL BUFFER, IT IS EXEMPT FROM BUFFER REQUIREMENTS DUE TO ITS CLASSIFICATION AS A STORMWATER CONVEYANCE STRUCTURE. THE WIDTH OF DISTURBANCE AND IMPACT TO THE BUFFER WILL BE MINIMIZED TO THE DEGREE POSSIBLE THROUGH UTILIZATION OF THE APPROPRIATE TECHNIQUES FOR EROSION CONTROL AS WELL AS ANY REQUIREMENTS FOR WATER QUALITY PERMITS THAT ARE DEEMED NECESSARY.

A16: EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS:
A USGS TOPOGRAPHIC MAP IS SHOWN IN PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A17: LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE:
A USGS TOPOGRAPHIC MAP IS SHOWN IN THE PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLANS SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A18: LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE:
A USGS TOPOGRAPHIC MAP IS SHOWN IN PLANS. MORE DETAILED CONTOUR LINES ARE ALSO SHOWN ON INDIVIDUAL PLAN SHEETS TO INDICATE DRAINAGE PATTERNS WITHIN THE CONSTRUCTION LIMITS.

A19: LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE:
THE LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE CAN BE SEEN IN THE PLANS.

A20: EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT:
THERE IS ONE EXISTING STORMWATER DETENTION POND WHICH IS SHOWN IN THE PLANS. STORM PIPE IS BEING INSTALLED THROUGH THE POND IN ORDER TO IMPROVE STORMWATER CONVEYANCE IN THIS AREA AS WELL AS THE REST OF THE PROPOSED PROJECT AREA.

A21: LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES:
THERE ARE NO ABANDONED WELLS, SINKHOLES, OR KARST FEATURES LOCATED WITHIN THE PROJECT AREA.

A22: SIZE OF THE PROJECT AREA EXPRESSED IN ACRES:
THE TOTAL PROJECT AREA IS APPROXIMATELY 76 ACRES.

A23: TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES:
THE TOTAL EXPECTED LAND DISTURBANCE FOR THE PROJECT IS APPROXIMATELY 1.02 ACRES.

A24: PROPOSED FINAL TOPOGRAPHY:
THE INDIVIDUAL PLAN SHEETS SHOW PROPOSED SITE TOPOGRAPHY AND DRAINAGE PATTERNS.

A25: LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:
THE PLANS SHOW THE LOCATIONS AND BOUNDARIES OF ALL DISTURBED AREAS/CONSTRUCTION LIMITS.

A26: LOCATIONS, SIZE AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNEL:
THE EXISTING AND PROPOSED STORMWATER DRAINAGE SYSTEMS ARE SHOWN ON THE PLANS. ALL EXISTING STORMWATER SYSTEMS WILL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION. IF DURING CONSTRUCTION ANY DAMAGE IS DONE TO AN EXISTING STORMWATER SYSTEM, DAMAGED STRUCTURES WILL BE EITHER REPAIRED OR REPLACED TO EQUAL OR BETTER CONDITION THAN EXISTING.

A27: LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE:
LOCATIONS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE CAN BE SEEN ON THE PLANS.

A28: LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS:
LOCATIONS OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING PROPOSED UTILITIES, STRUCTURES, AND LOT BOUNDARIES, ARE SHOWN ON THE PLANS. NO OFF-SITE CONSTRUCTION IS ANTICIPATED FOR THIS PROJECT.

A29: LOCATIONS OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS:
STOCKPILES LEFT INACTIVE FOR SEVEN (7) DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY SEED AND SURROUNDED BY SILT FENCE OR OTHER PERIMETER CONTROLS ALL STOCKPILES AND BORROW AREAS, IF REQUIRED FOR THE PROJECT, WILL BE LOCATED ON-SITE AND THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT OR RELEASE FOR PROPER DISPOSAL OF EXCAVATED MATERIALS.

A30: CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT:
STAGING AREAS, MATERIAL STORAGE, AND CONCRETE WASHOUT AREAS ARE NOT ANTICIPATED AS NECESSARY FOR THIS PROJECT.

A31: LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUND:
WORK WITHIN STREAMS INCLUDES THE INSTALLATION OF A NEW STORM PIPE THAT WILL DISCHARGE INTO THE HULDA MILLER DITCH, FLOWING ADJACENT TO THE INTERSECTION OF N CENTER ST AND W WALNUT ST.

STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)

STORMWATER POLLUTION PREVENTION MEASURES SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AUTHORITY AND THE APPLICABLE MS4 STORMWATER QUALITY STANDARDS.

B1: DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES:

<u>OPERATION</u>	<u>POTENTIAL POLLUTANTS</u>
CLEARING, GRADING, EXCAVATING	SEDIMENT, DEBRIS
SOIL STOCKPILES	SEDIMENT
DEWATERING OPERATIONS	SEDIMENT
PAVING REPAIR	SEDIMENT, DEBRIS
VEHICLE FUELING, MAINTENANCE	OIL, GREASE, FUEL
GENERAL CONSTRUCTION ACTIVITY	TRASH, SANITATION CHEMICALS
PAVEMENT RESTORATION	BITUMINOUS DEBRIS

EXCAVATION, STOCKPIILING:
STOCKPILE MANAGEMENT PROCEDURES AND PRACTICES WILL BE IMPLEMENTED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS.

FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

- LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
- PROTECT FROM CONTACT WITH STORMWATER USING A TEMPORARY PERIMETER SEDIMENT BARRIER.
- WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE THE DISCHARGE OF SEDIMENTS.
- NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER.
- TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT STOCKPILES FROM WIND.

DEWATERING:
EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES.

EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT, UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

- ALLOW NO DISCHARGE OF VISIBLE SEDIMENT OR SOLIDS.
- AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.
- DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

VEHICLE FUELING:
VEHICLE FUELING SHALL NOT TAKE PLACE WITHIN REGULATED DRAIN AREAS WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50- FEET OF THE STORM DRAIN SYSTEM. DESIGNATED AREAS SHALL BE DEPICTED ON THE PLANS OR SHALL BE APPROVED BY THE SITE OWNER. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS, OR WITHIN 50- FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION.

CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTI-FREEZE, SOLVENTS, AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS; AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR INTO ANY ENVIRONMENTALLY SENSITIVE AREA.

AFTER THE SWPPP IS IMPLEMENTED, ALL DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM. THE PURPOSE OF THE SELF-MONITORING PROGRAM REPORTS, WHICH ARE TO BE COMPLETED BY A TRAINED INDIVIDUAL, IS TO ASSESS PERFORMANCE OF POLLUTANT CONTROL MEASURES. BASED ON THESE INSPECTIONS, IT WILL BE DETERMINED IF ADDITIONAL MEASURES ARE NECESSARY TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THE CONTRACTOR WILL BE REQUIRED TO REPAIR, MODIFY, MAINTAIN, OR TAKE ADDITIONAL STEPS AS NECESSARY TO ACHIEVE EFFECTIVE POLLUTANT CONTROL. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT AND IS LOCATED UNDER SEPARATE ATTACHMENT.

B2: STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:
THIS PROJECT IS LINEAR AND WILL NOT HAVE A SPECIFIC LOCATION DESIGNATED AS A STABLE CONSTRUCTION ENTRANCE. UPON COMPLETION OF CONSTRUCTION ALL SURFACES SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE EXISTING SURFACES ACTING AS CONSTRUCTION ENTRANCES/EXITS TO PRE-CONSTRUCTION CONDITIONS. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" FOR STABLE CONSTRUCTION ENTRANCE REQUIREMENTS (UNDER SEPARATE ATTACHMENT).

B3: SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:
TEMPORARY AND PERMANENT SEED SURFACE STABILIZATION WILL BE UTILIZED WHERE NEEDED. SEE DS-09, "TEMPORARY EROSION CONTROL" AND WM-24 "SEEDING AND SODDING" (LOCATED UNDER SEPARATE ATTACHMENT) FOR ADDITIONAL INFORMATION.

IN ORDER TO REDUCE THE EXTENT OF EXPOSED AREAS AND THE DURATION OF EXPOSURE, CLEARING, GRADING, AND VEGETATIVE RE-STABILIZATION MUST BE PROPERLY TIMED AND COORDINATED. SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED AS SOON AS PRACTICABLE ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. UNVEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT UNACTIVE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. STABILIZATION MUST BE INITIATED BY THE END OF THE

SEVENTH DAY THE AREA IS LEFT IDLE. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. INITIATION OF STABILIZATION INCLUDES SEEDING AND APPLYING MULCH OR OTHER TEMPORARY SURFACE STABILIZATION METHODS WHERE APPROPRIATE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED. TEMPORARY SEEDING OR EROSION CONTROL MATS ARE TO BE USED TO STABILIZE EXPOSED SURFACES IF FINAL GRADING AND SEEDING MUST BE DELAYED.

B4: SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:
PROTECTIVE MEASURES FOR AREAS OF CONCENTRATED FLOW WILL INCLUDE TEMPORARY AND PERMANENT VEGETATION, MULCHES, EROSION CONTROL BLANKETS, CHECK DAMS, OR OTHER PRACTICES TO CORRESPOND WITH CONSTRUCTION ACTIVITIES. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW ARE NOT ANTICIPATED AS NECESSARY FOR ANY SPECIFIC AREAS OF THE PROPOSED PROJECT. SEDIMENT CONTROL MEASURES FOR AREAS OF CONCENTRATED FLOW WILL BE PROVIDED AS NEEDED BY THE CONTRACTOR. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE INFORMATION.

B5: SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:
ALL DISTURBED AREAS, WHERE RUNOFF WILL BE IN SHEET FLOW CONDITION AND WHICH ARE NOT TO BE DISTURBED FOR SEVEN (7) DAYS OR MORE, SHALL RECEIVE TEMPORARY SEEDING. DISTURBED AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER LAND DISTURBANCE ACTIVITIES ARE COMPLETED. PERIMETER PROTECTION, SUCH AS SILT FENCE AND INLET PROTECTION, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS. IN GENERAL, SILT FENCES WILL BE INSTALLED APPROXIMATELY FIVE (5) FEET FROM PROPERTY BOUNDARIES/RIGHT OF WAY BOUNDARIES AS APPLICABLE. INSTALLATION OF SILT FENCES WILL TYPICALLY BE REQUIRED ON THE DOWNSLOPE SIDE OF ALL OPEN TRENCHES EXCAVATED FOR STORM SEWER INSTALLATION. THE PLANS SHOW ADDITIONAL EROSION CONTROL MEASURES PROPOSED FOR THIS PROJECT. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR MORE DETAIL.

B6: RUNOFF CONTROL MEASURES:
DIVERSION DITCHES, CHECK DAMS, SLOPE DRAINS, OR OTHER SIMILAR STRUCTURES FOR RUNOFF CONTROL ARE NOT ANTICIPATED FOR THIS PROJECT.

B7: STORMWATER OUTLET PROTECTION SPECIFICATIONS:
STORMWATER OUTLETS WILL BE PROVIDED WITH A TEMPORARY ROCK CHECK DAM, STRAW DAM, SILT FENCES, EROSION CONTROL BLANKETS, AND TEMPORARY AND PERMANENT SEEDING AS APPLICABLE.

B8: GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:
GRADE STABILIZATION WILL BE REQUIRED AS NEEDED DURING CONSTRUCTION. GRADE STABILIZATION REQUIREMENTS ARE ESTABLISHED IN DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT).

SEEDING AND MULCHING OR TEMPORARY SEEDING WILL BE PERFORMED ON AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION. TEMPORARY SEEDING WILL TAKE PLACE AS SOON AS PRACTICABLE AFTER DISTURBED AREAS HAVE BEEN RESTORED TO THEIR REQUIRED GRADE OR HAVE BEEN DISTURBED AND NOT WORKED FOR SEVEN (7) DAYS OR MORE. BIODEGRADABLE MATTING OR NETTING MAY BE USED TO STABILIZE SOILS ON SLOPED AREAS AND SOME RECENTLY PLANTED AREAS TO PROTECT SEEDLINGS UNTIL THEY HAVE BECOME ESTABLISHED.

B9: DEWATERING APPLICATIONS AND MANAGEMENT METHODS:
IF DEWATERING BECOMES NECESSARY ON SITE, THE FOLLOWING METHODS WILL BE USED: EQUIPMENT OPERATORS ARE PROHIBITED FROM DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES. EXAMPLES OF APPROPRIATE CONTROL MEASURES INCLUDE TEMPORARY SEDIMENT BASINS OR SEDIMENT TRAPS, SEDIMENT SOCKS, DEWATERING TANKS AND BAGS, OR FILTRATION SYSTEMS (E.G., BAG OR SAND FILTERS) THAT ARE DESIGNED TO REMOVE SEDIMENT, UNCONTAMINATED, NON-TURBID DEWATERING WATER CAN BE DISCHARGED WITHOUT BEING ROUTED TO A CONTROL.

AT A MINIMUM, THE FOLLOWING DISCHARGE REQUIREMENTS MUST BE MET FOR DEWATERING ACTIVITIES:

- ALLOW NO DISCHARGE OF VISIBLE SEDIMENT OR SOLIDS.
- AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED, UTILIZE VELOCITY DISSIPATION DEVICES.
- DEWATERING PRACTICES MUST INVOLVE THE IMPLEMENTATION OF APPROPRIATE CONTROL MEASURES AS APPLICABLE (I.E., CONTAINMENT AREAS FOR DEWATERING EARTH MATERIALS, PORTABLE SEDIMENT TANKS AND BAGS, PUMPING SETTLING BASINS, AND PUMP INTAKE PROTECTION).

B10: MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:
WORK WITHIN WATERBODIES INCLUDES THE INSTALLATION OF A NEW STORM PIPE THAT WILL DISCHARGE INTO THE UNNAMED DITCH FLOWING INTO PIPE CREEK THAT IS ADJACENT TO THE INTERSECTION OF N CENTER ST AND W WALNUT ST. THE AREA OF DISTURBANCE WILL BE MINIMIZED TO THE EXTENT PRACTICABLE AND EROSION CONTROL MEASURES WILL BE IN ACCORDANCE WITH IDEM, AND ACOE PERMIT REQUIREMENTS, AS DEEMED NECESSARY.

B11: MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:
THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL MONITOR AND MANAGE PROJECT CONSTRUCTION AND STORMWATER ACTIVITIES THROUGH THE ADMINISTRATION OF A SELF-MONITORING PROGRAM (SMP). A TRAINED INDIVIDUAL SHALL SUBMIT WEEKLY SMP REPORTS, AND EVENT INSPECTION REPORTS AS REQUIRED WITHIN 24 HOURS OF EVERY 1/2" RAIN EVENT. INSPECTION WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL STRUCTURES TO ENSURE INTEGRITY AND EFFECTIVENESS. INSPECTIONS WILL ALSO BE PROVIDED FOR ALL DISTURBED AREAS THAT HAVE NOT ACHIEVED FINAL STABILIZATION, AND AT ALL POINTS OF DISCHARGE FROM THE CONSTRUCTION SITE. REFER TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT) FOR REQUIREMENTS REGARDING THE SMP REPORTS AND PROJECT MANAGEMENT LOG.

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STATE OF INDIANA
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**TOWN OF FRANKTON
MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
PHASE 2**

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No.	Date		By	Submittal / Revision	
Desigined By:	ACC	Drawn By:	JRD	Checked By:	BHA
Issue Date:	05-07-2024	Project No:	D24059	Scale:	AS SHOWN

**STORMWATER
POLLUTION
PREVENTION PLAN**

FILE: Z:\SHARED\CLIENTS_4\LEFRANKTON\01103_25\STORMWATER IMPROVEMENTS\0103_0000_01\DRAWINGS\PHASE 2\05-STORMWATER POLLUTION PREVENTION\0500-DRW-24-001.dwg 12:16:32 PM Friday, 5/7/2024 12:16:32 PM 12:24:01 File Content User: George Roper (rsroper@frankton.in.gov)

STORMWATER POLLUTION PREVENTION PLAN - CONSTRUCTION COMPONENT (SECTION B)

B12: PLANNED CONSTRUCTION SEQUENCE THAT DESCRIBES THE IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE:

A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND ANY LAND DISTURBANCE ACTIVITY. ATTENDEES TO THE PRE-CONSTRUCTION MEETING WILL INCLUDE REPRESENTATIVES OF THE CONTRACTOR, OWNER, ENGINEER, THE MADISON COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD) SHALL BE PROVIDED WITH A 48-HOUR NOTICE PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY. REFER ALSO TO DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), WHICH IS INCLUDED AS A PART OF THE CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT.

THE NOTICE OF INTENT AND THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE POSTED AT THE JOB SITE. THERE WILL BE FUEL CONTAINMENT AND CONCRETE WASHOUT PROVIDED ON-SITE, IF APPLICABLE.

PROJECT SEQUENCING WILL GENERALLY FOLLOW THE FOLLOWING STEPS:

1. INSTALL CONSTRUCTION ENTRANCES.
2. INSTALL PERIMETER PROTECTION (SILT FENCE, CHECK DAMS, COIR LOGS, FILTER BERM, INLET PROTECTION).
3. TEMPORARY SEED AS NEEDED PER SPECIFICATIONS.
4. REMOVE TEMPORARY EROSION CONTROL MEASURES AS THE PERMANENT MEASURES ARE ESTABLISHED.

B13: PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

ALL PROPOSED IMPROVEMENTS ARE TAKING PLACE ON RIGHT OF WAYS, UTILITY EASEMENTS, OR LAND OWNED BY THE TOWN. THE PROJECT AREA AND INDIVIDUAL AREA EROSION CONTROL IS DEPICTED IN PLANS.

B14: MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1:

AS DESCRIBED DS-09, "TEMPORARY EROSION CONTROL" (UNDER SEPARATE ATTACHMENT), THE CONTRACTOR WILL BE REQUIRED TO INSPECT EQUIPMENT REGULARLY TO AVOID UNNECESSARY LEAKS OR SPILLS. THE CONTRACTOR WILL ALSO BE REQUIRED TO PROVIDE SPILL KITS AND EQUIPMENT TO CONTAIN AND CLEAN UP AND PETROLEUM PRODUCTS OR OTHER UNDESIRABLE SPILLS WHICH MAY OCCUR DURING CONSTRUCTION.

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

IF A SPILL DOES OCCUR, SPILL REPORTING AND NOTIFICATION REQUIREMENTS WILL BE UNDERTAKEN IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND STATE REQUIREMENTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RESPONSE PROCEDURES THAT WILL MINIMIZE GROUNDWATER AND SURFACE WATER IMPACTS.

CONTACT INFORMATION FOR LOCAL AND STATE AGENCIES TO BE CONTACTED IN THE EVENT OF A SPILL ARE AS FOLLOWS:

MADISON COUNTY SOIL & WATER CONSERVATION DISTRICT
182 W. 300 N., SUITE D
ANDERSON, IN 46012
PHONE: 765-644-4249 EXT. 3

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
EMERGENCY RESPONSE AND SPILL REPORTING SECTION
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER QUALITY
INDIANA GOVERNMENT CENTER NORTH
100 N. SENATE AVENUE, ROOM N1255
INDIANAPOLIS, INDIANA 46204
PHONE: 1-888-233-7745

INDIANA DEPARTMENT OF NATURAL RESOURCES
DISTRICT 4 HEADQUARTERS
PHONE: 765-649-1062

INDIANA DEPARTMENT OF TRANSPORTATION
TRAFFIC MANAGEMENT CENTER
PHONE: 317-899-8690

B15: MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

FUELS, OILS, GREASE, OR OTHER PETROLEUM PRODUCTS MUST BE STORED IN APPROPRIATE AND APPROVED AREAS. PREVENTATIVE MAINTENANCE WILL BE REQUIRED FOR ON-SITE EQUIPMENT. HAZARDOUS MATERIALS WILL BE REQUIRED TO BE STORED IN A FIELD TRAILER TO AVOID ANY OUTSIDE STORAGE.

ALL FUEL IS TO BE CONTAINED IN A MOBILE SERVICE TRUCK OR IN THE CONSTRUCTION EQUIPMENT OPERATING ON SITE. SMALL CONTAINERS OF OILS, GREASE, AND RELATED PRODUCTS MAY BE STORED IN THE CONTRACTOR'S CONSTRUCTION TRAILER. THESE ITEMS WILL BE REQUIRED TO BE INSPECTED REGULARLY TO INSURE PROPER STORAGE AND HANDLING AND TO GUARD AGAINST LEAKAGE. DEFECTIVE CONTAINERS WILL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.

CONCRETE WASHOUT AREA LOCATIONS ARE NOT ANTICIPATED AS NECESSARY FOR THIS PROJECT.

STORMWATER POLLUTION PREVENTION - POST-CONSTRUCTION COMPONENT (SECTION C)

NO IMPERVIOUS SURFACE IS BEING ADDED FOR THIS PROJECT; THEREFORE, NO POST-CONSTRUCTION COMPONENT IS INCLUDED IN THIS STORMWATER POLLUTION PREVENTION PLAN.

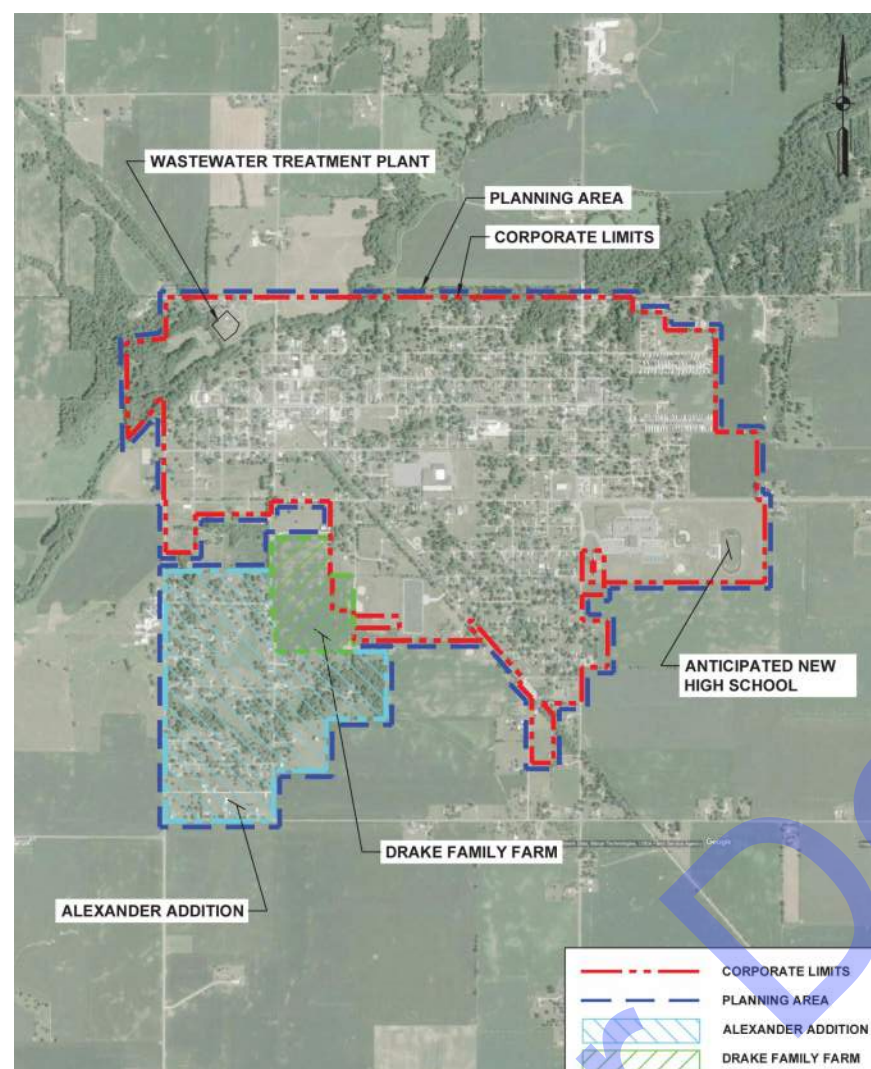


EXHIBIT #1 - GENERAL LOCATION MAP

NOT TO SCALE

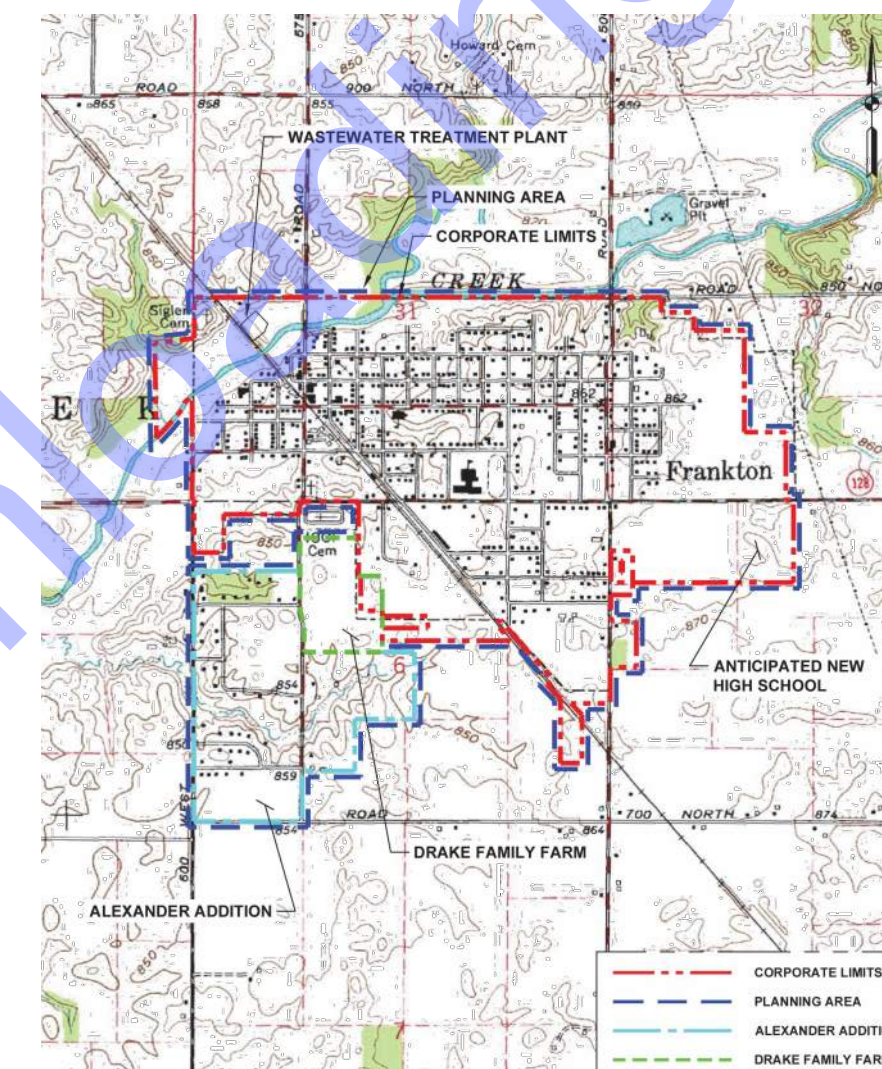


EXHIBIT #2 - DRAINAGE (TOPOGRAPHY) MAP

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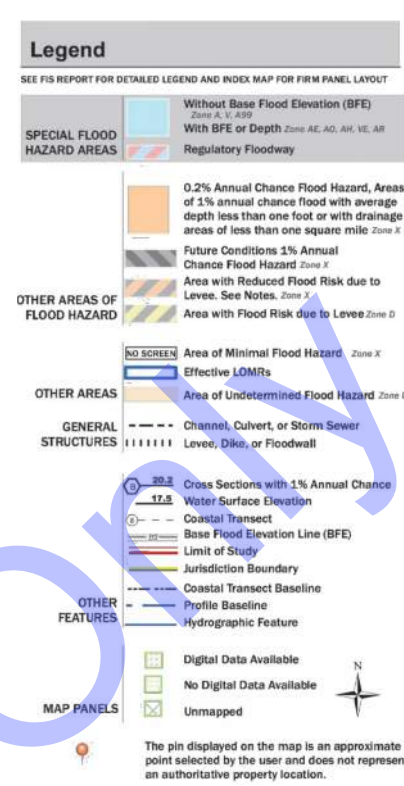


EXHIBIT #3 - FLOODPLAIN MAP

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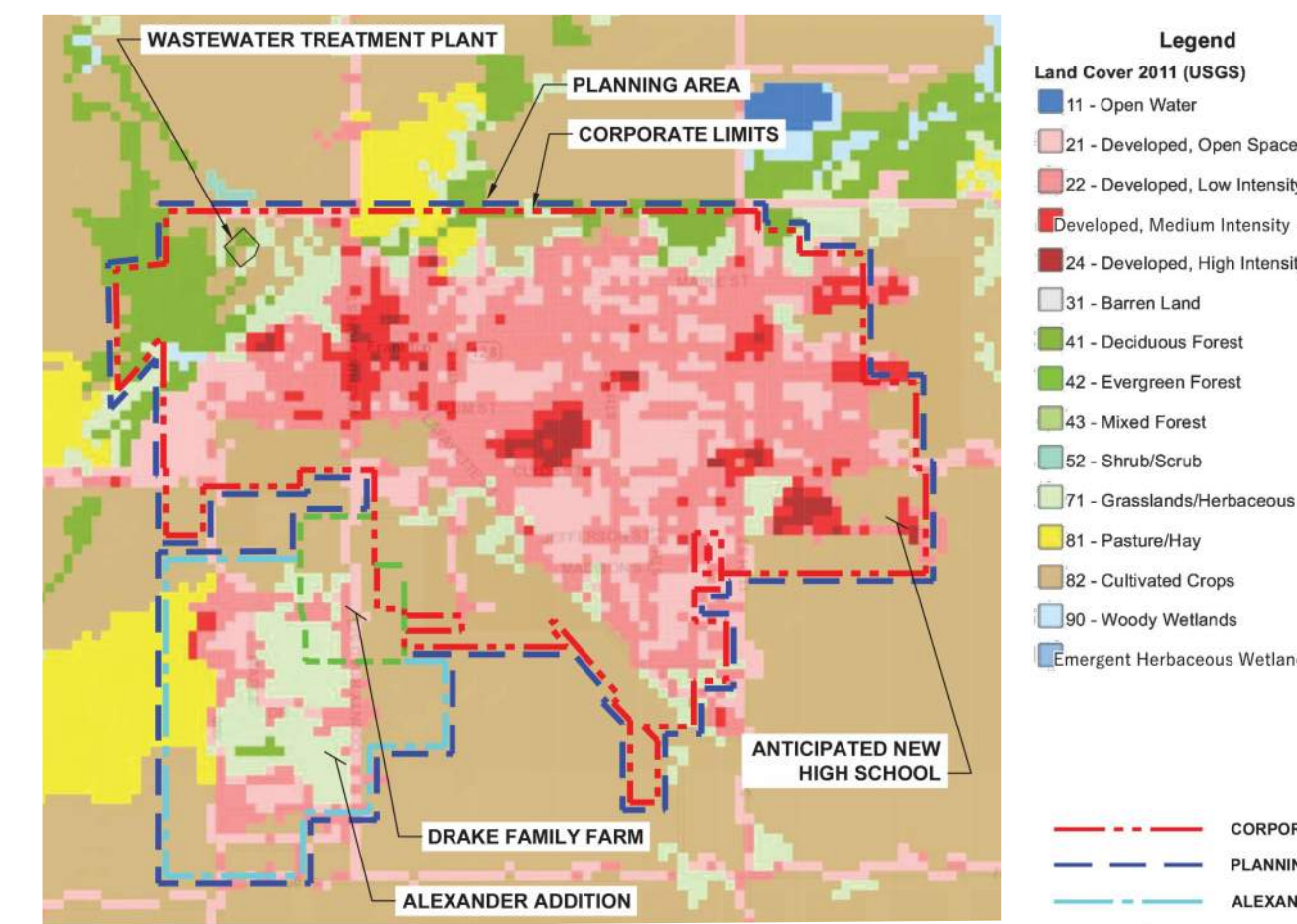


EXHIBIT #4 - LAND USE MAP

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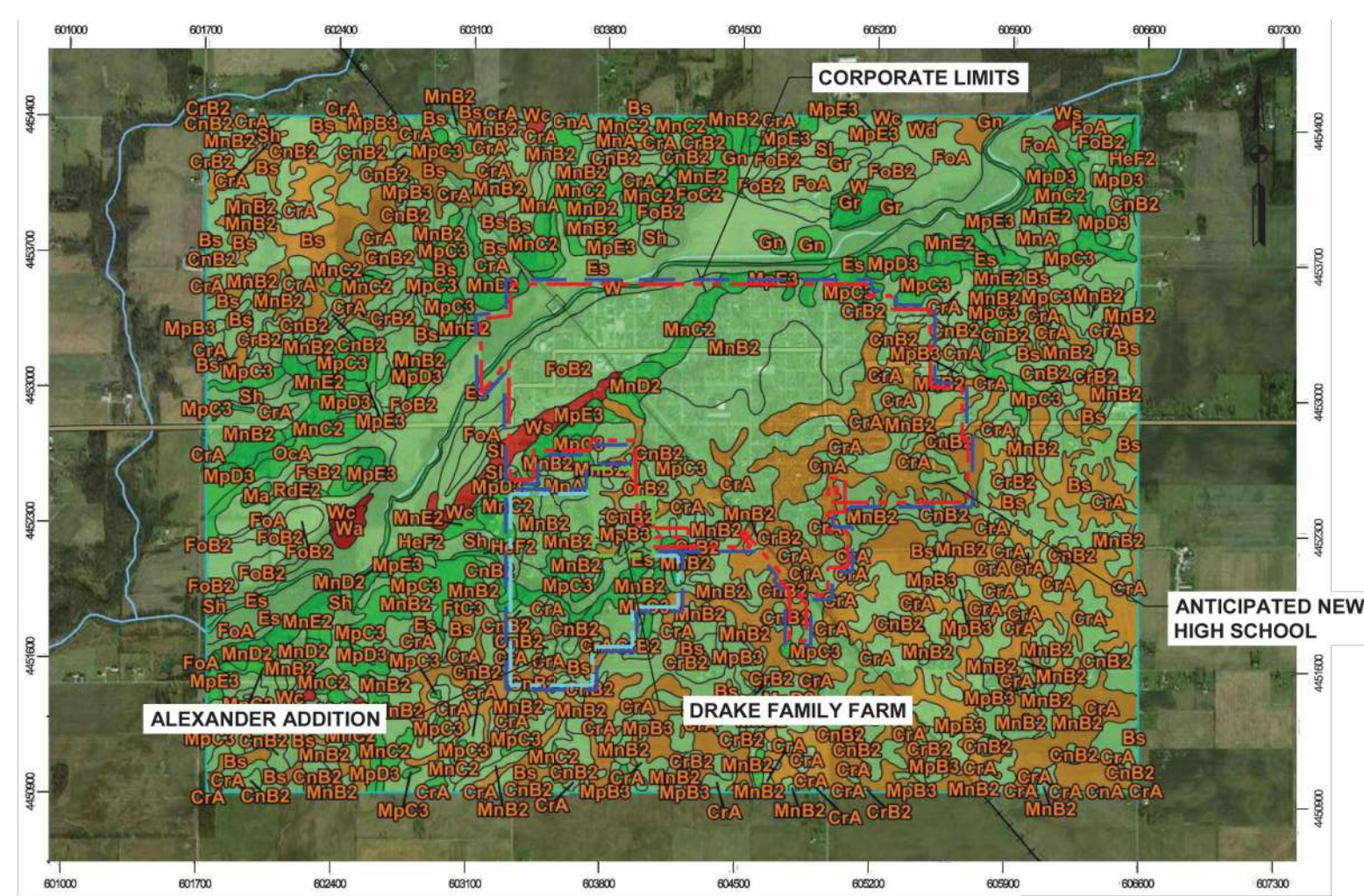


EXHIBIT #5 - SOILS MAP

NOT TO SCALE



Andrew C. Cochrane
Signature Date 5-7-24

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MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
PHASE 2

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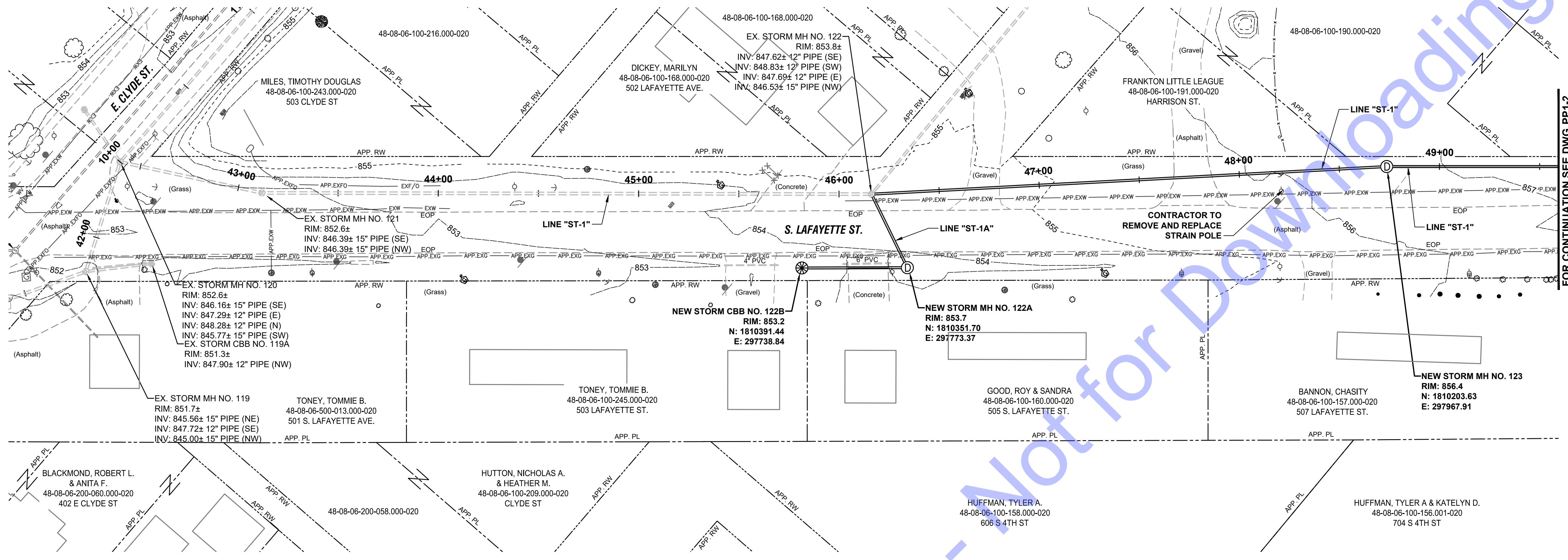
No.	Submitted / Revision	By	Date

Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

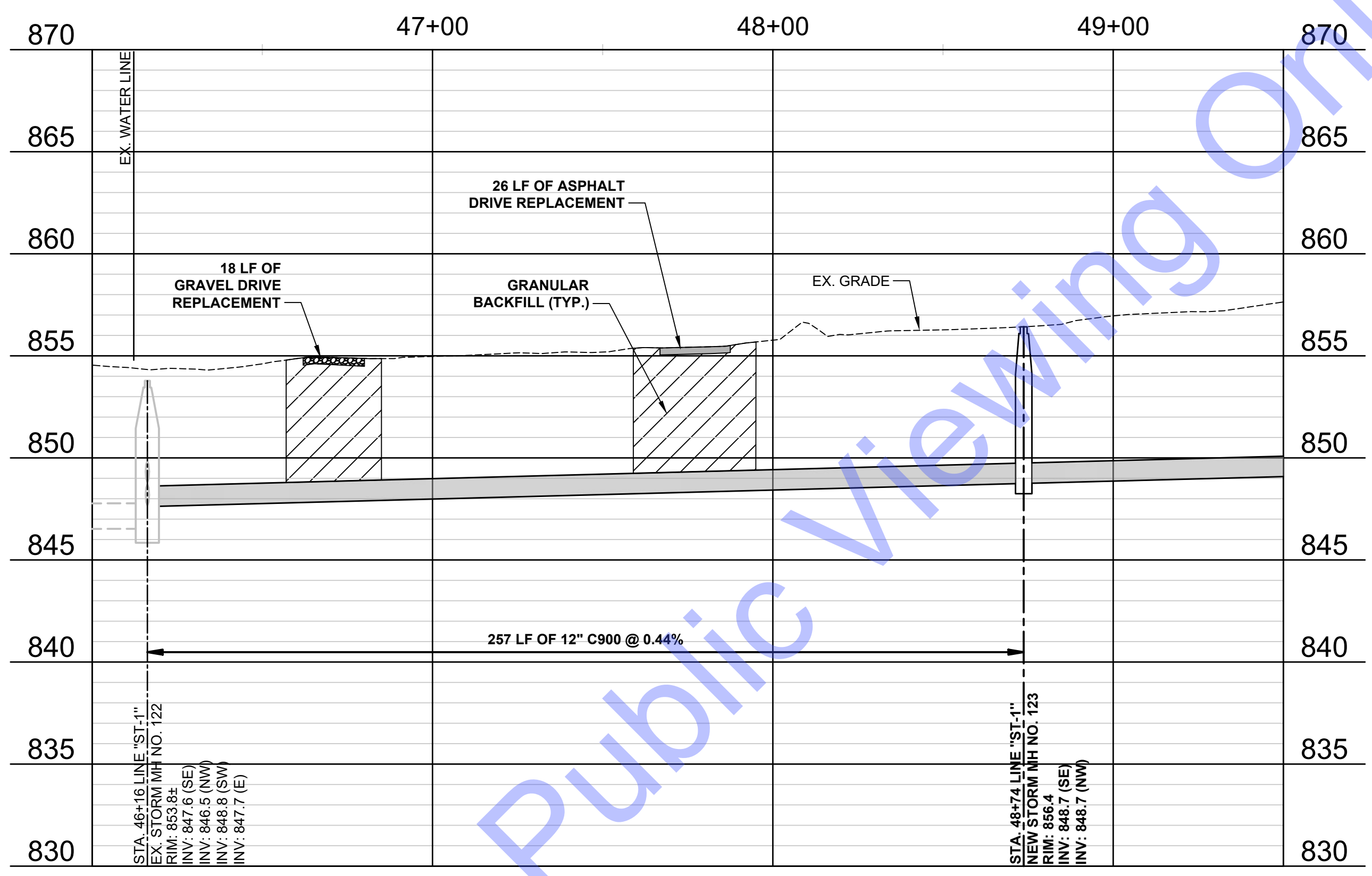
STORMWATER POLLUTION PREVENTION PLAN

Drawing No: EC5

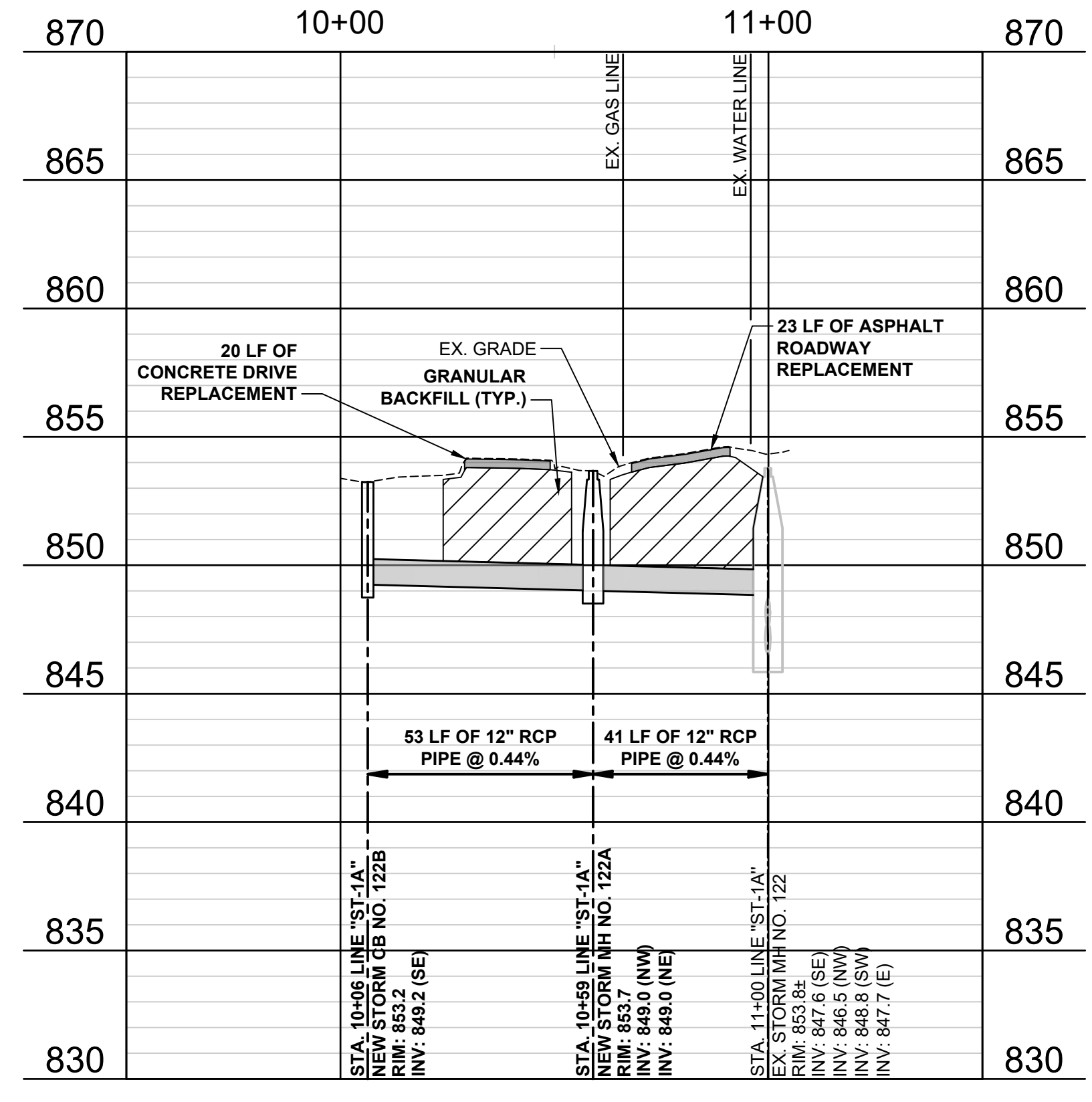
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PLAN VIEW



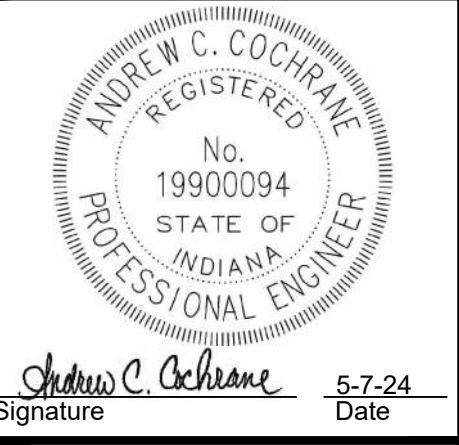
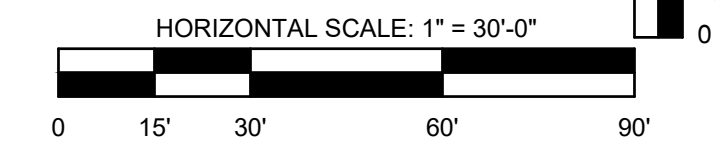
PROFILE VIEW - LINE "ST-1"



PROFILE VIEW - LINE "ST-1A"

GENERAL NOTES:

- EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE SHOWN AS A REFERENCE ONLY WITH REGARDS TO DEPTH SHOWN WITH PIPE SYMBOL. CONTRACTOR SHALL FIELD VERIFY DEPTH OF EXISTING UTILITY PRIOR TO ORDERING MATERIALS TO ENSURE NO CHANGE ORDERS OR CONFLICTS OCCUR.



TOWN OF FRANKTON
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PHASE 2

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CHECKED BY: BHA
ISSUE DATE: 05-07-2024
PROJECT NO: D24059
SCALE: AS SHOWN

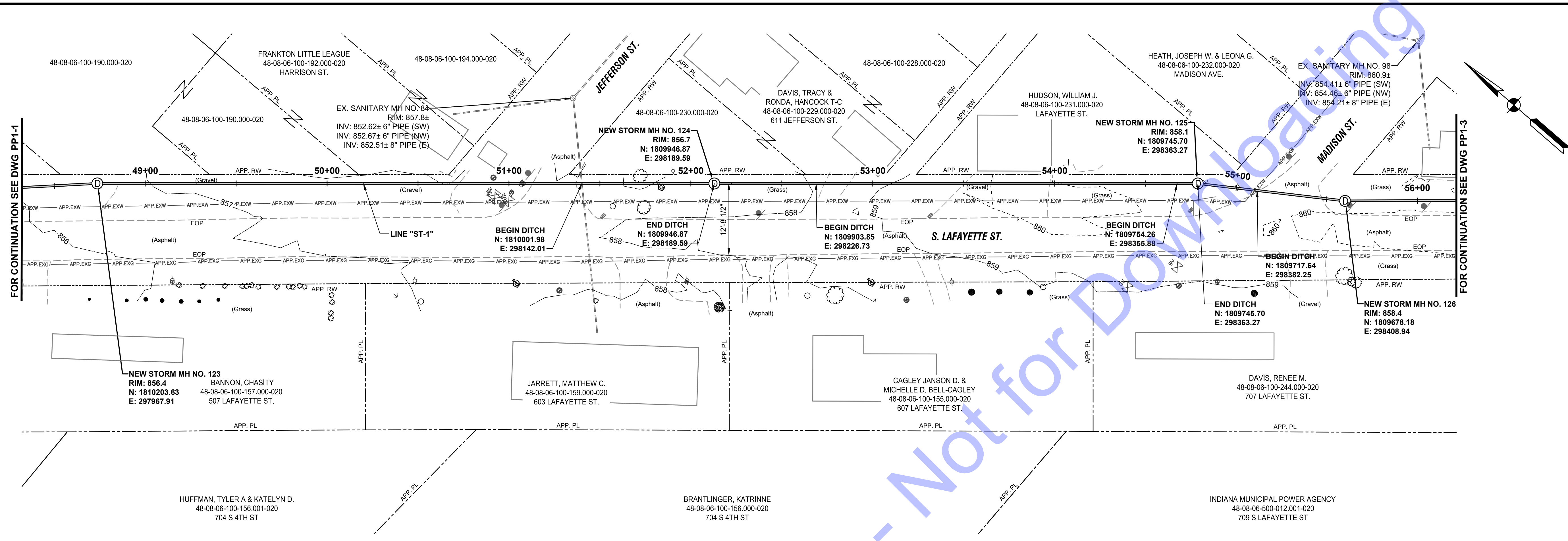
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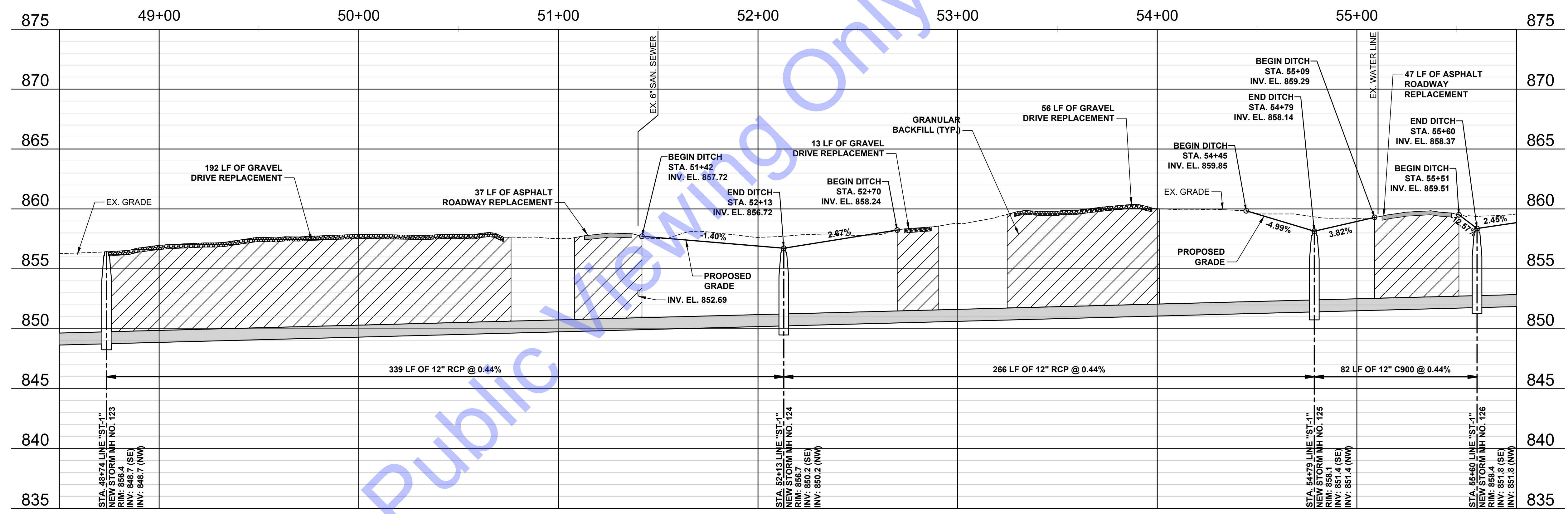
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Drawing No: **PP1-1**
Sheet: 11 OF 20

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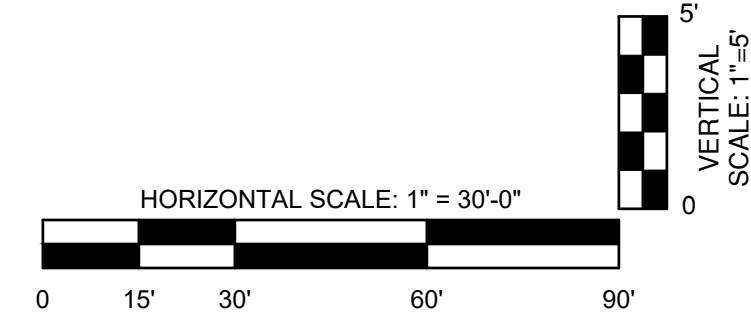


PLAN VIEW



PROFILE VIEW

- GENERAL NOTES:**
- EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE SHOWN AS A REFERENCE ONLY WITH REGARDS TO DEPTH SHOWN WITH PIPE SYMBOL. CONTRACTOR SHALL FIELD VERIFY DEPTH OF EXISTING UTILITY PRIOR TO ORDERING MATERIALS TO ENSURE NO CHANGE ORDERS OR CONFLICTS OCCUR.



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Elansville, IN 46728
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INDIANAPOLIS NORTH
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Indianapolis, IN 46278
(317) 885-1177

BOANING GREEN
Bloomington, IN 47403
(317) 885-1177

REGISTERED PROFESSIONAL ENGINEER
No. 19900094
STATE OF INDIANA
Signature: Andrew C. Cochrane
Date: 5-7-24

**TOWN OF FRANKTON
MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
PHASE 2**

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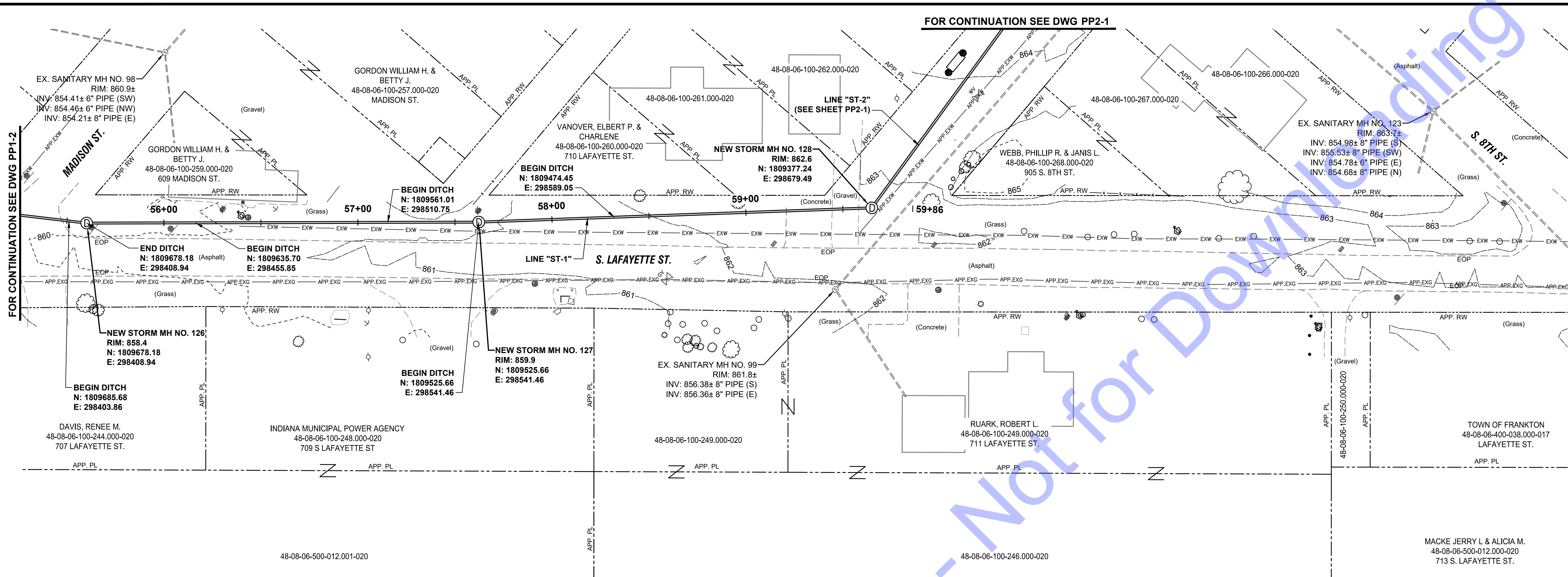
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Project No: D24059
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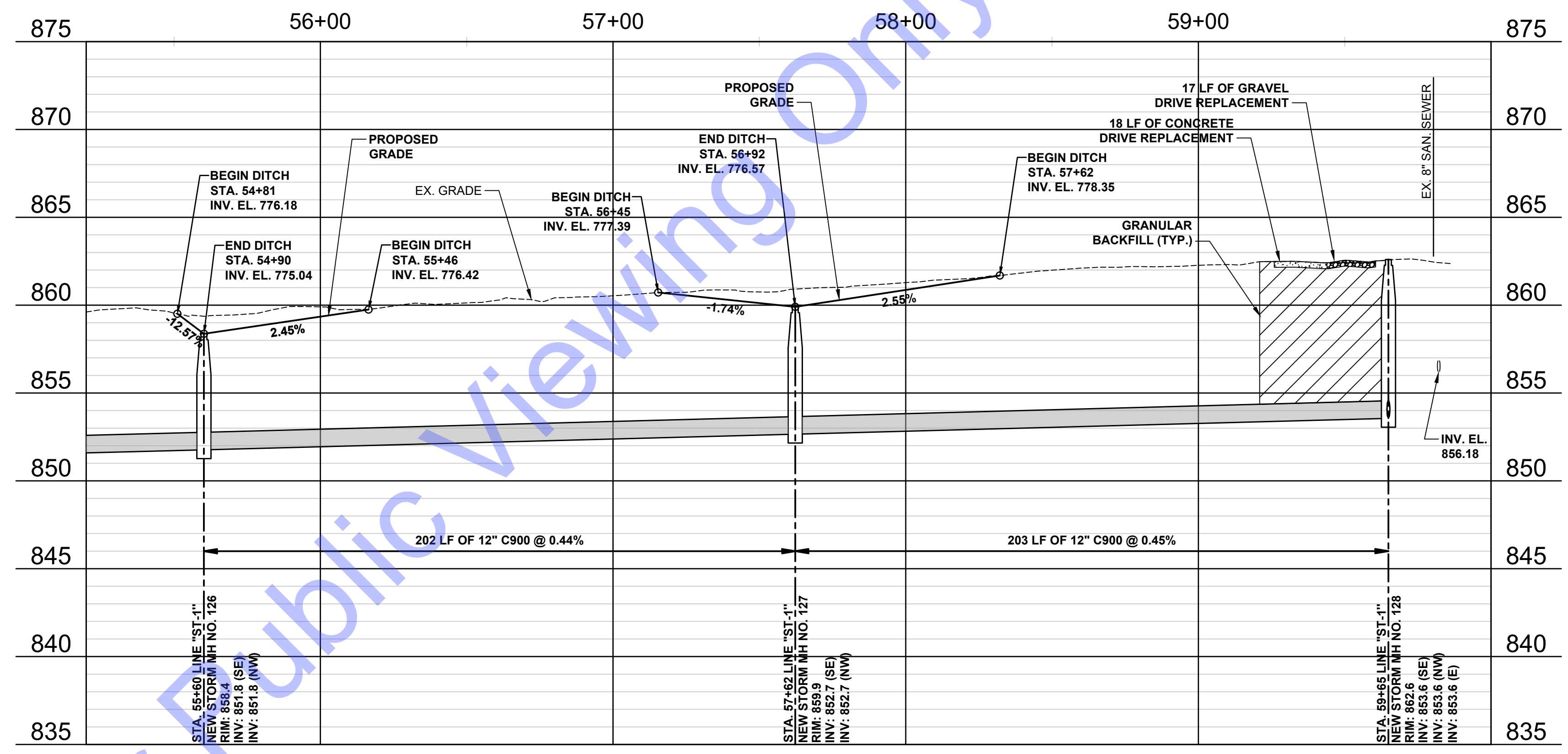
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Sheet: 12 OF 20

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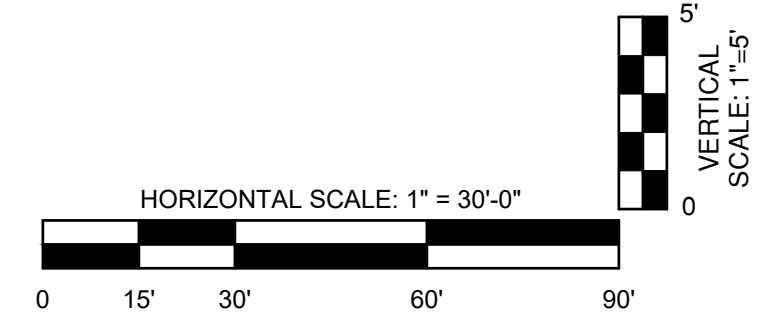
PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

- EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE SHOWN AS A REFERENCE ONLY WITH REGARDS TO DEPTH SHOWN WITH PIPE SYMBOL. CONTRACTOR SHALL FIELD VERIFY DEPTH OF EXISTING UTILITY PRIOR TO ORDERING MATERIALS TO ENSURE NO CHANGE ORDERS OR CONFLICTS OCCUR.



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Indianapolis, IN 46204
(317) 944-1177

INDIANAPOLIS SOUTH
1000 S. Capitol Blvd.
Indianapolis, IN 46203
(317) 944-1177

ANDREW C. COCHRANE
REGISTERED PROFESSIONAL ENGINEER
No. 19900094
STATE OF INDIANA

Signature: Andrew C. Cochrane
Date: 5-7-24

TOWN OF FRANKTON
MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
PHASE 2

DESIGNED BY: ACC
DRAWN BY: JRD
CHECKED BY: BHA
ISSUE DATE: 05-07-2024
PROJECT NO: D24059
SCALE: AS SHOWN

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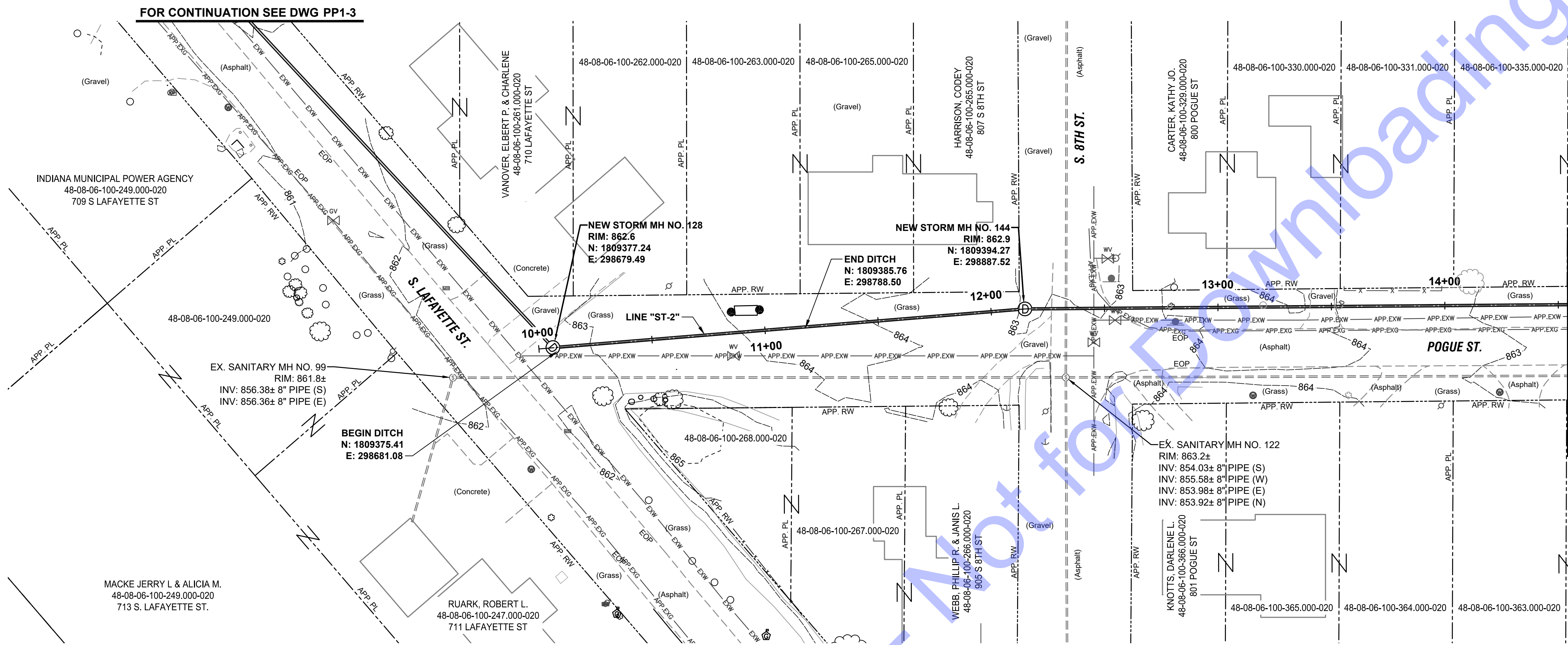
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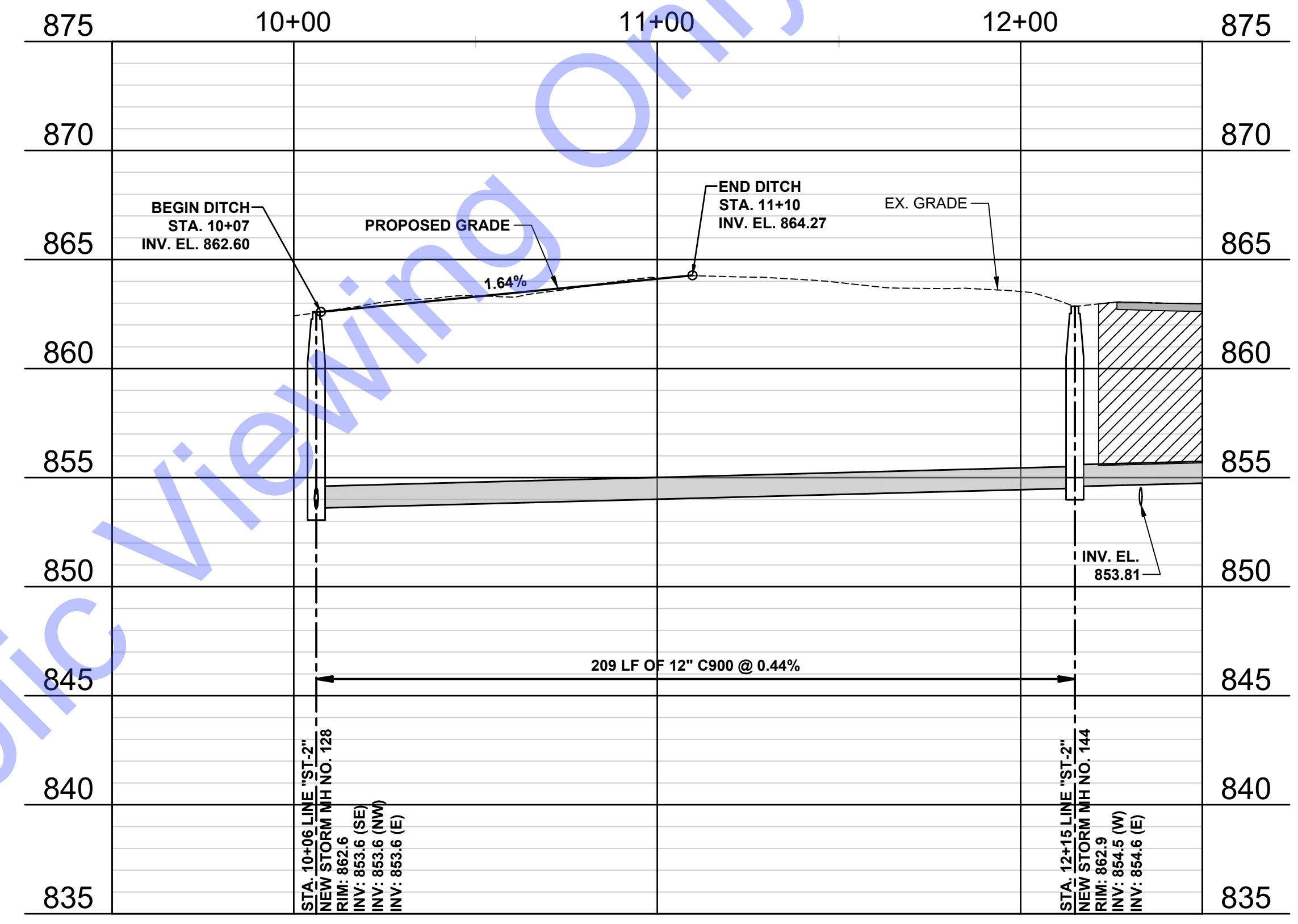
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Drawing No: **PP1-3**
Sheet: 13 OF 20

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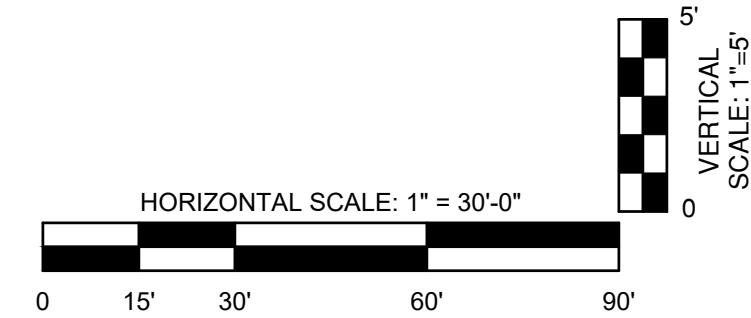
PLAN VIEW



PROFILE VIEW

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CROWN POINT, IN 46037
BOWLING GREEN, KY 42101

REGISTERED PROFESSIONAL ENGINEER
No. 19900094
STATE OF INDIANA
Signature: Andrew C. Cochrane
Date: 5-7-24

TOWN OF FRANKTON
MADISON COUNTY, INDIANA
STORMWATER IMPROVEMENTS
PHASE 2

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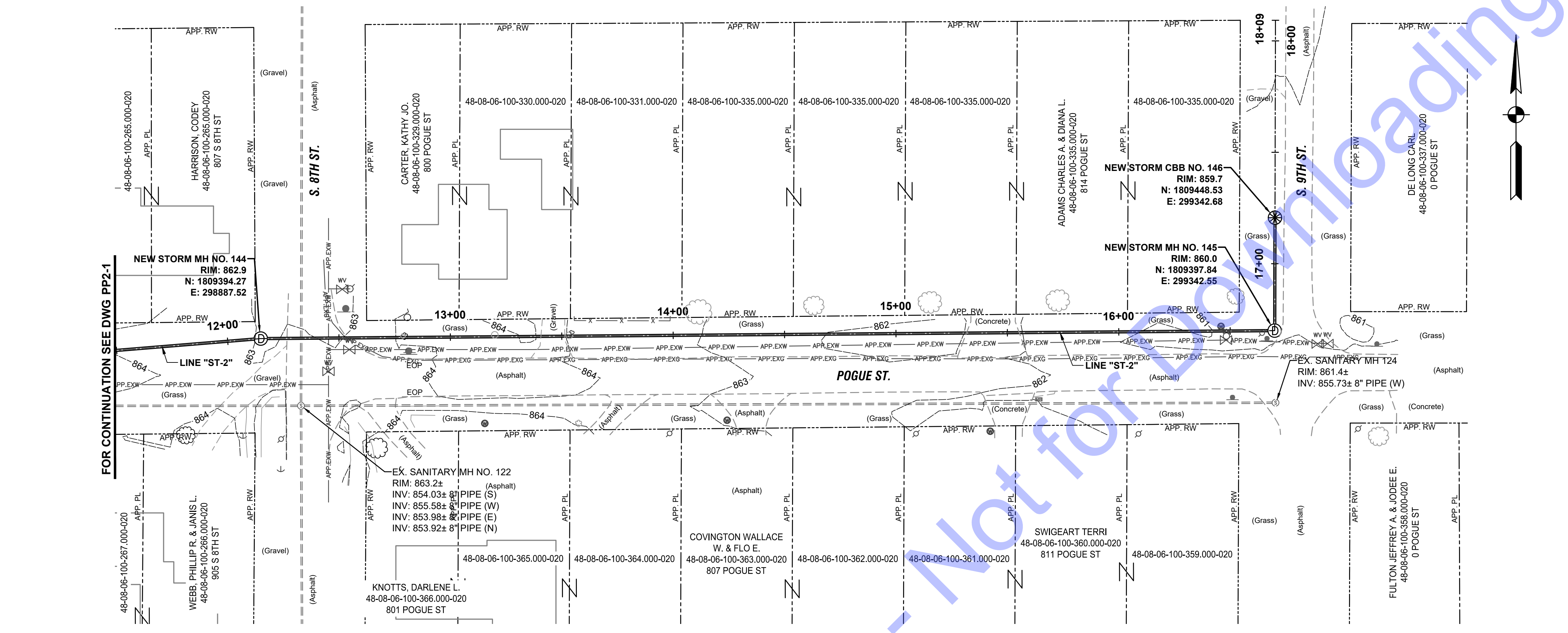
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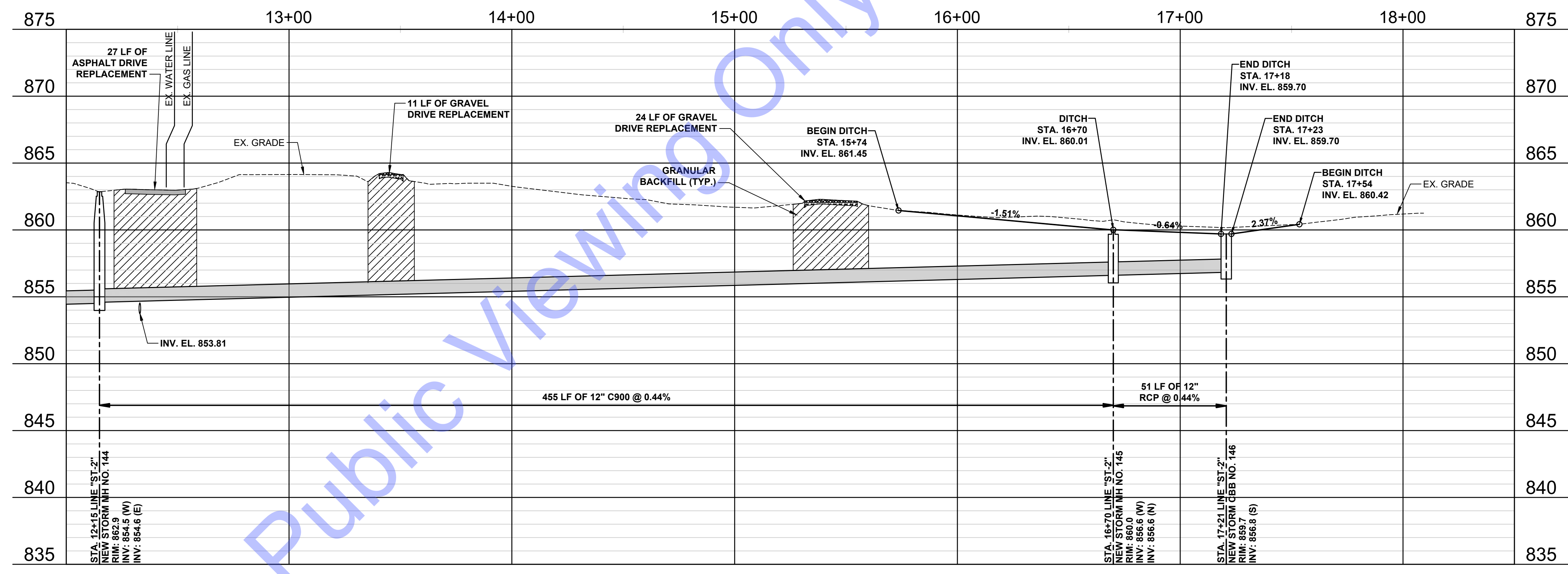
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Sheet: 14 OF 20

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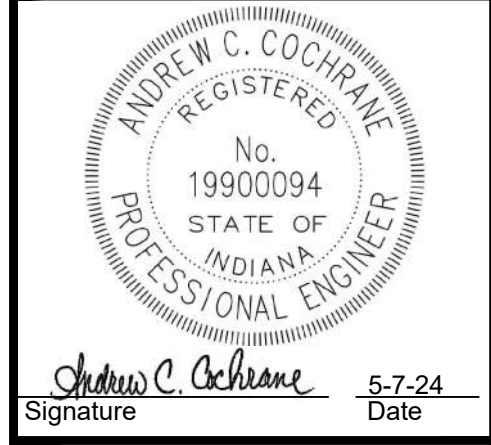
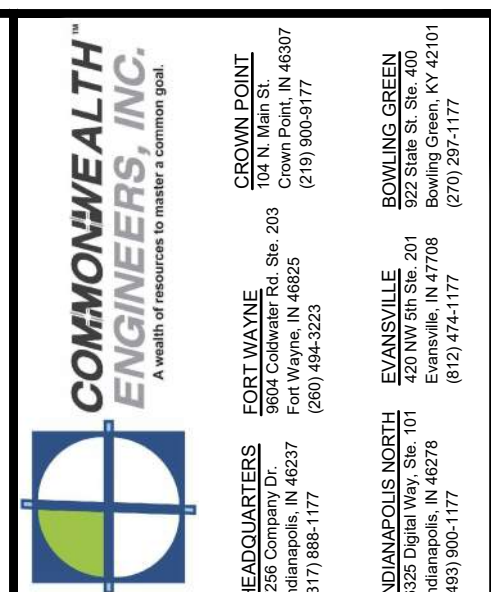
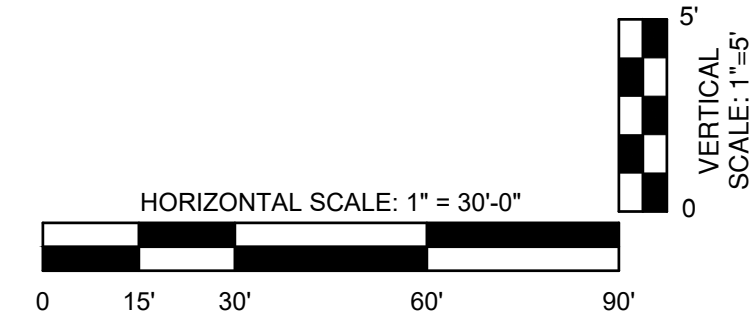
PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

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TOWN OF FRANKTON
 MADISON COUNTY, INDIANA
 STORMWATER IMPROVEMENTS
 PHASE 2

DESIGNED BY: ACC
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PLAN AND PROFILE
 VIEWS - LINE "ST-2"

Drawing No:
PP2-2
 Sheet: 15 OF 20

STRUCTURE DATA ST1

STRUCTURE NUMBER	LOCATION						SIZE FT IN.	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH LFT	FLOW LINE					NEW CASTING TYPE**	CONNECT TO STR.	REMARKS ** NEENAH TYPE UNLESS OTHERWISE NOTED *** CONNECT NEW PIPE TO EXISTING STRUCTURE **** CONNECT NEW STRUCTURE TO EXISTING PIPE	
	STATION	LINE	LEFT	RIGHT	CROSS	OFFSET				PIPE TYPE	COVER	TOP OF CASTING	UPSTREAM	DOWN STREAM				SLOPE
											LFT	ELEV.	ELEV.	ELEV.				%
NEW STORM SEWER																		
122A	46+34	ST-1		X		36.70	12	RCP	MANHOLE, 48"	40.8	4.69	853.70	849.01	848.83	0.44	R-2560-D5	122	
122B	45+81	ST-1		X		36.98	12	RCP	CATCH BASIN, ROUND	52.6	3.96	853.20	849.24	849.01	0.44	R-2560-D5	122A	
123	48+74	ST-1					12	RCP	MANHOLE, 48"	257.1	7.67	856.42	848.75	847.62	0.44	R-2502	122	
124	52+13	ST-1					12	RCP	MANHOLE, 48"	338.9	6.48	856.72	850.24	848.75	0.44	R-2560-D5	123	
125	54+79	ST-1					12	RCP	MANHOLE, 48"	266.1	6.73	858.14	851.41	850.24	0.44	R-2560-D5	124	
126	55+60	ST-1					12	RCP	MANHOLE, 48"	81.0	6.60	858.37	851.77	851.41	0.44	R-2560-D5	125	
127	57+62	ST-1					12	RCP	MANHOLE, 48"	202.1	7.24	859.90	852.66	851.77	0.44	R-2560-D5	126	
128	59+67	ST-1					12	RCP	MANHOLE, 48"	205.1	9.04	862.60	853.56	852.66	0.44	R-2560-D5	127	
TOTALS										1443.7								

STRUCTURE DATA ST2

STRUCTURE NUMBER	LOCATION						SIZE FT IN.	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH LFT	FLOW LINE					NEW CASTING TYPE**	CONNECT TO STR.	REMARKS ** NEENAH TYPE UNLESS OTHERWISE NOTED *** CONNECT NEW PIPE TO EXISTING STRUCTURE **** CONNECT NEW STRUCTURE TO EXISTING PIPE	
	STATION	LINE	LEFT	RIGHT	CROSS	OFFSET				PIPE TYPE	COVER	TOP OF CASTING	UPSTREAM	DOWN STREAM				SLOPE
											LFT	ELEV.	ELEV.	ELEV.				%
NEW STORM SEWER																		
144	12+08	ST-2					12	RCP	MANHOLE	208.7	8.52	863.00	854.51	853.60	0.44	R-2560-D5	128	
145	16+70	ST-2					12	RCP	MANHOLE	455.1	4.39	860.00	856.60	854.59	0.44	R-2560-D5	144	
146	17+21	ST-2					12	RCP	CATCH BASIN	51.0	3.50	859.70	856.83	856.60	0.44	R-2560-D5	145	
TOTALS										713.0								

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 Fort Wayne, IN 46827
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ANDREW C. COCHRANE
 REGISTERED PROFESSIONAL ENGINEER
 No. 19900094
 STATE OF INDIANA

Andrew C. Cochran
 Signature

5-7-24
 Date

**TOWN OF FRANKTON
 MADISON COUNTY, INDIANA**

**STORMWATER IMPROVEMENTS
 PHASE 2**

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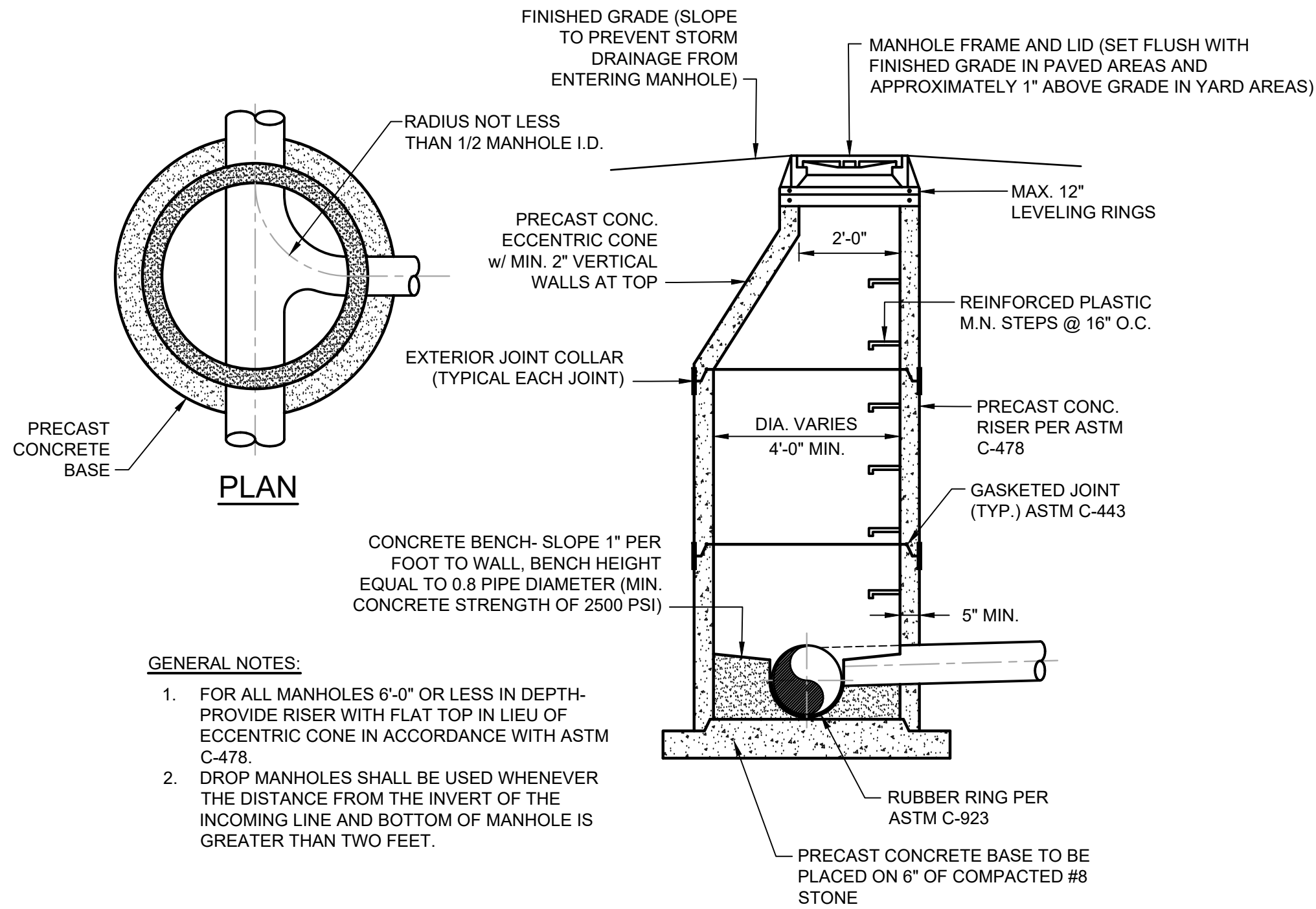
1-800-382-5544
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No.	Submittal / Revision	By	Date

Designed By: ACC
 Drawn By: JRD
 Checked By: BHA

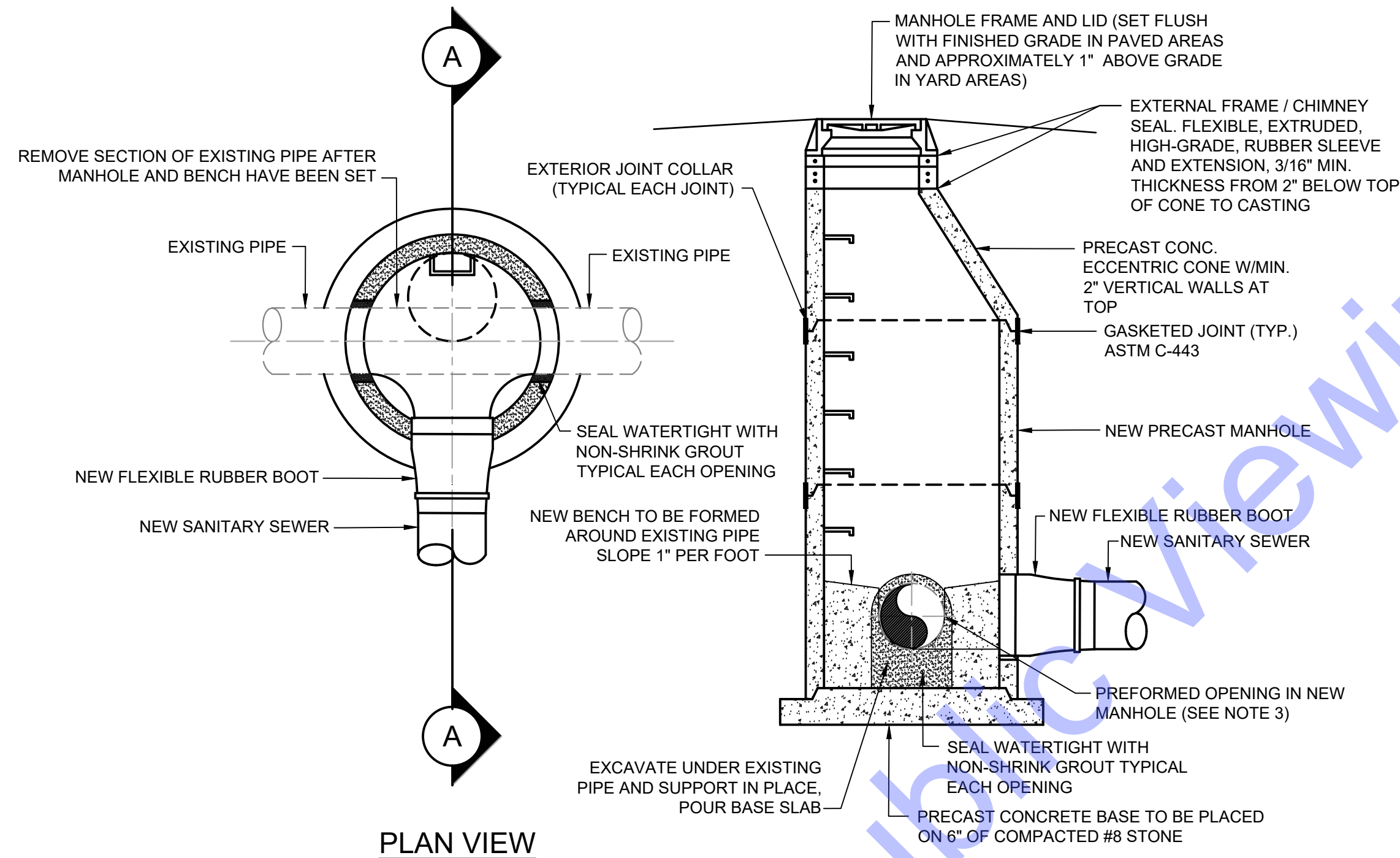
Issue Date: 05-07-2024
 Project No: D24059
 Scale: AS SHOWN

STRUCTURE DATA TABLE



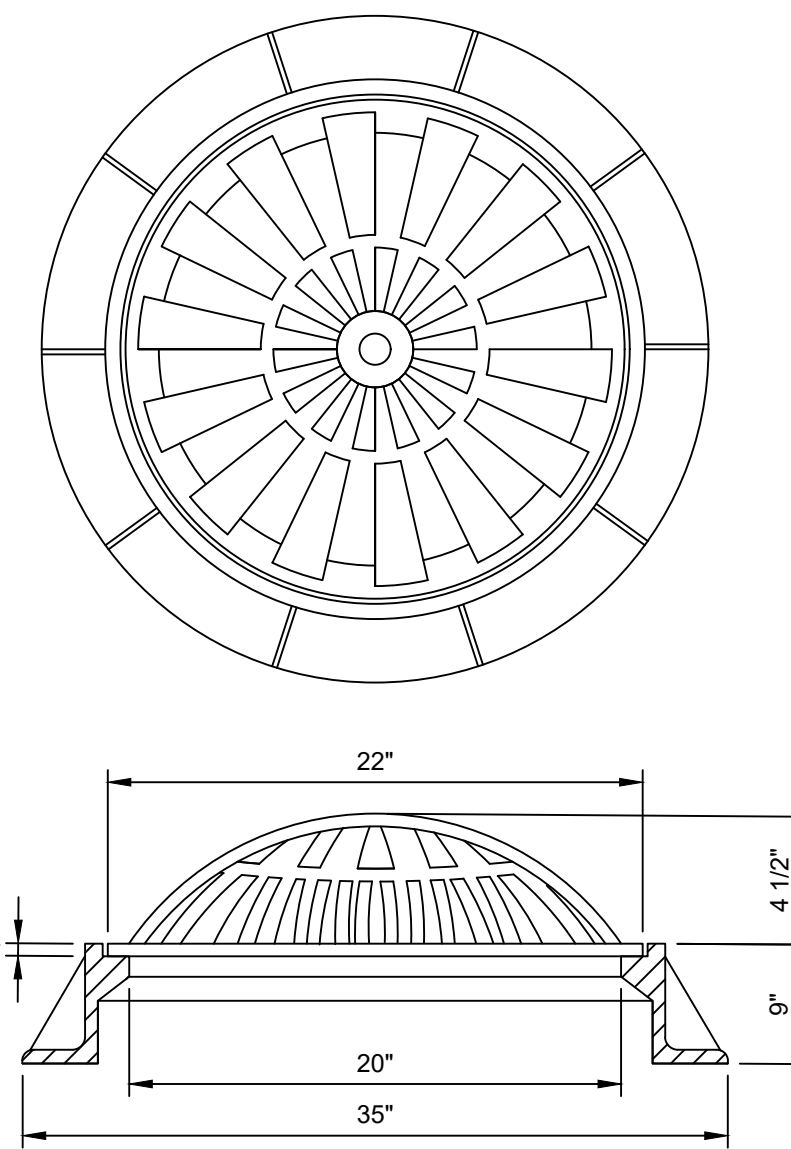
- GENERAL NOTES:**
- FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH- PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478.
 - DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMING LINE AND BOTTOM OF MANHOLE IS GREATER THAN TWO FEET.

STANDARD MANHOLE DETAIL
NOT TO SCALE



- GENERAL NOTES:**
- NEW "DOG-HOUSE" MANHOLE SHALL BE AS SPECIFIED FOR STANDARD MANHOLES IN WM-9 "STANDARD MANHOLES"
 - ALL REINFORCING SHALL MEET ASTM C-478
 - HOLES IN PRECAST UNITS SHALL BE 4" MIN. TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE

NEW MANHOLE OVER EXISTING SEWER DETAIL
NOT TO SCALE



NEENAH R-2560-D5 BEEHIVE FRAME AND GRATE
NOT TO SCALE

File: Z:\SHARED\IN\CLIENTS_A\TOWNSHIP\MD\113\STORMWATER IMPROVEMENTS\CADD\CURRENT FILES\1\DRAININGS\PHASE 2\07-MISC-DETAILS.DWG
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822 South St., Ste. 400
Bouring Green, KY 40301
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ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: *Andrew C. Cochran* Date: 5-7-24

**TOWN OF FRANKTON
MADISON COUNTY, INDIANA**

**STORMWATER IMPROVEMENTS
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No.	Submittal / Revision	By	Date

Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

MISCELLANEOUS DETAILS

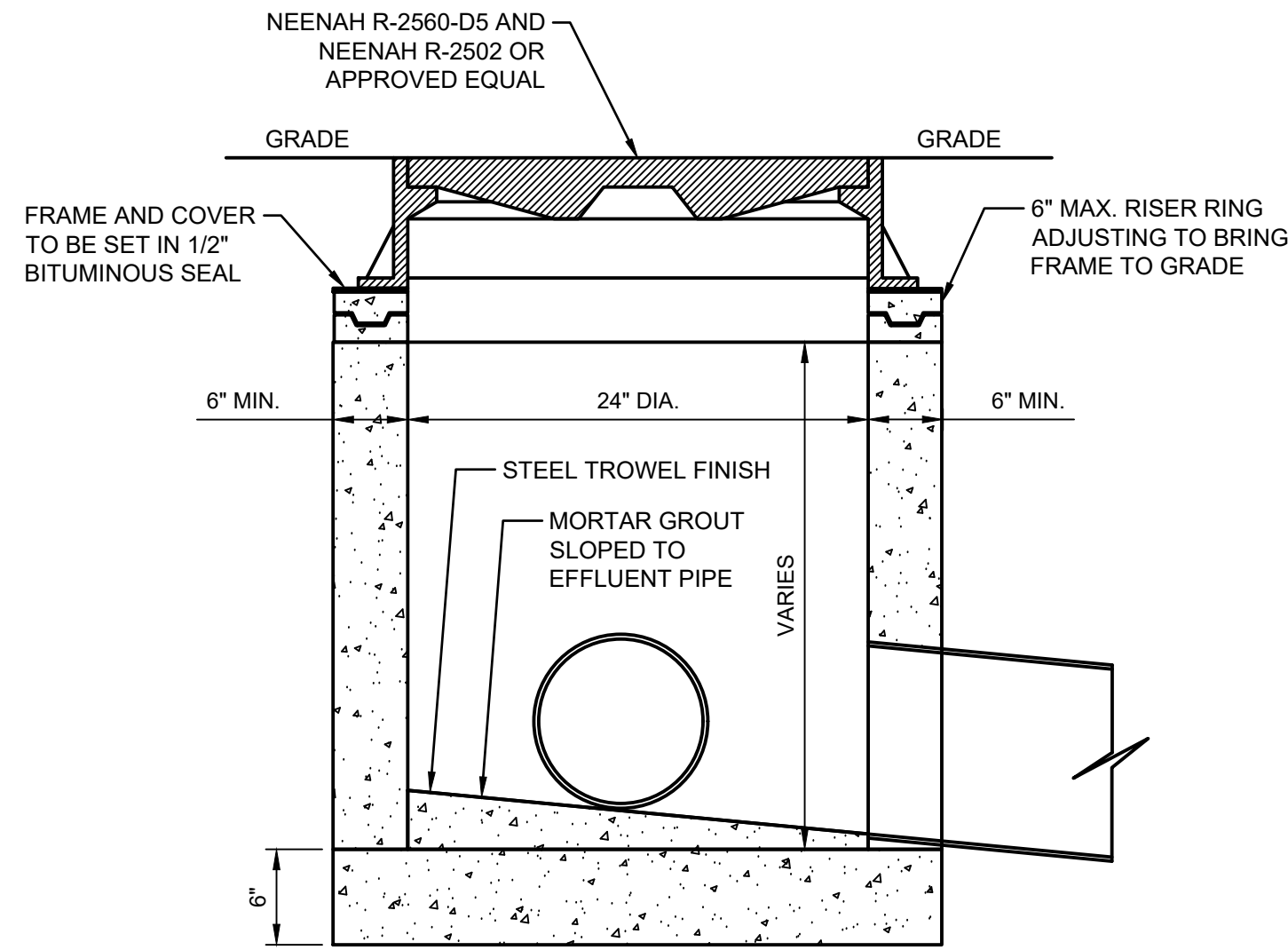
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Sheet: 17 OF 20

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NOTES:

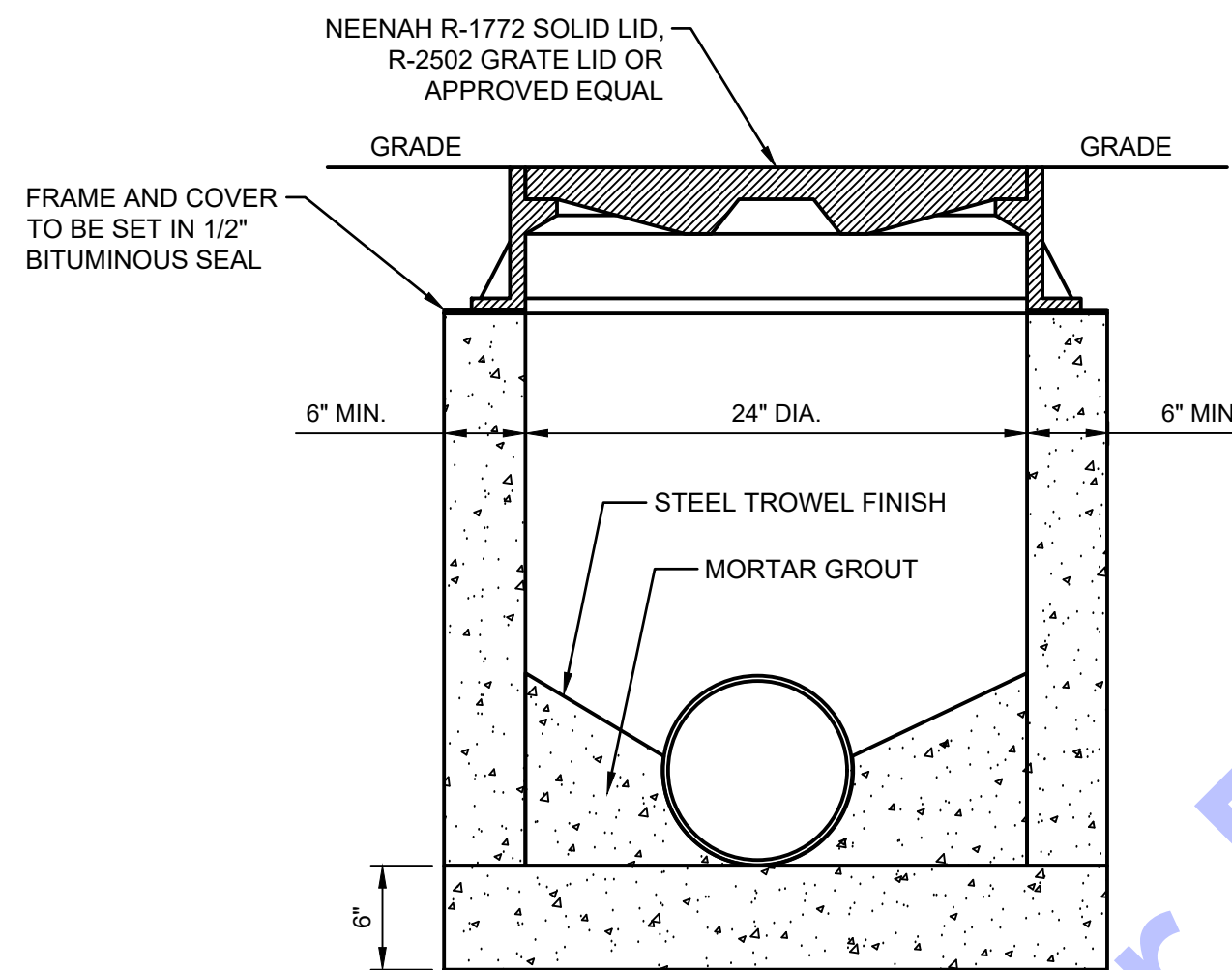
1. CATCH BASIN TO BE CONSTRUCTED OF SOLID CONCRETE, PRECAST OR POURED-IN-PLACE. ROUND OR SQUARE WITH OR WITHOUT KNOCKOUT PANELS.
2. 24" REINFORCED CONCRETE PIPE SECTIONS MAY BE USED ONLY IF ENCASED IN A MINIMUM OF 4" READY MIX CONCRETE, AND TO A MAXIMUM DEPTH OF 4'-0".
3. CONCRETE STRENGTH: 4,000PSI
4. REINFORCEMENT: A.S.T.M. C-913, BASE AND SIDES, 6" O.C., BOTH WAYS



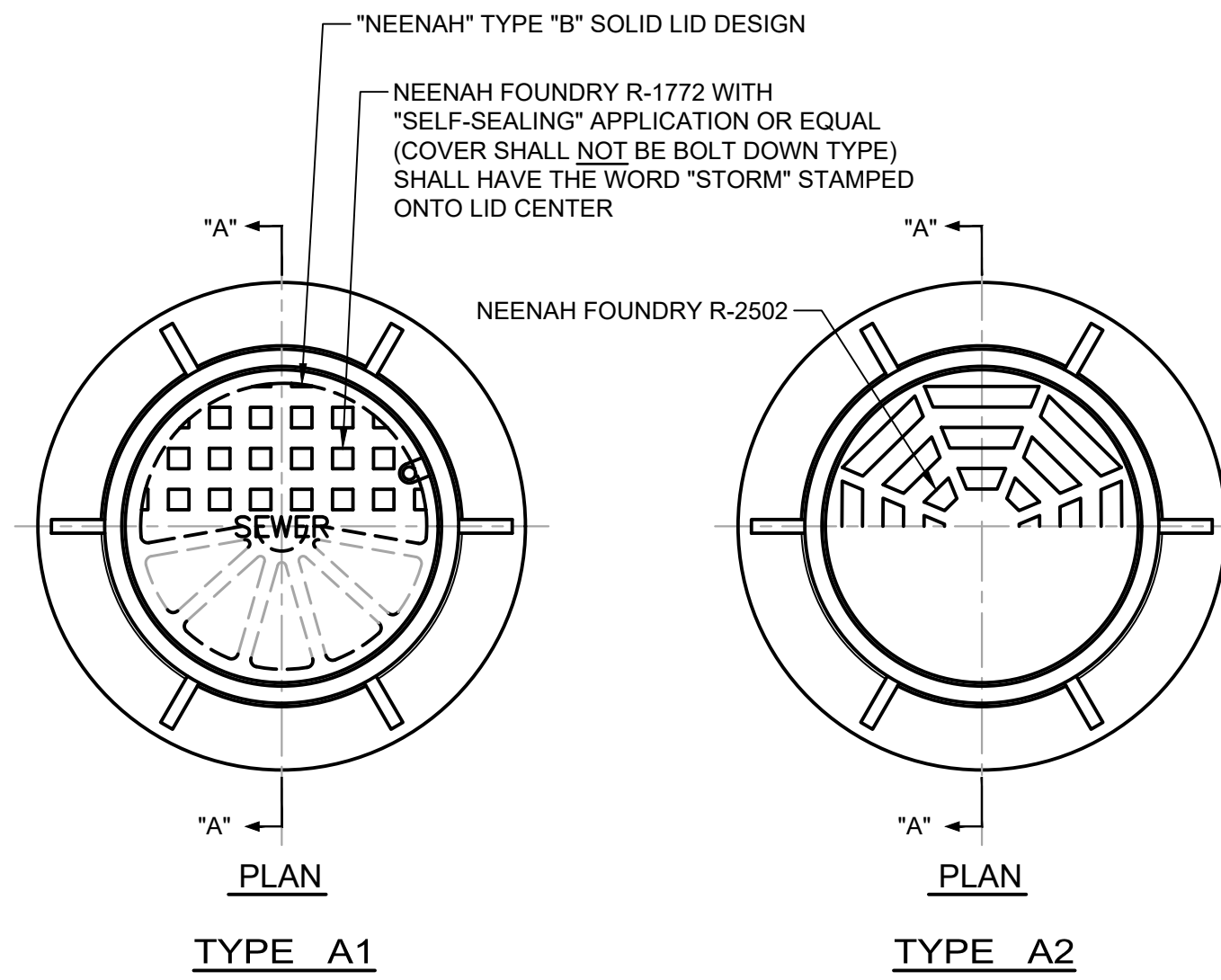
STANDARD CATCH BASIN
NOT TO SCALE

NOTES:

1. STRUCTURE TO BE CONSTRUCTED OF SOLID CONCRETE, PRECAST OR POURED-IN-PLACE. ROUND OR SQUARE WITH OR WITHOUT KNOCKOUT PANELS.
2. 24" REINFORCED CONCRETE PIPE SECTIONS MAY BE USED ONLY IF ENCASED IN A MINIMUM OF 4" READY MIX CONCRETE, AND TO A MAXIMUM DEPTH OF 5'-0".
3. CONCRETE STRENGTH: 4,000PSI
4. REINFORCEMENT: A.S.T.M. C-913, BASE AND SIDES, 6" O.C., BOTH WAYS

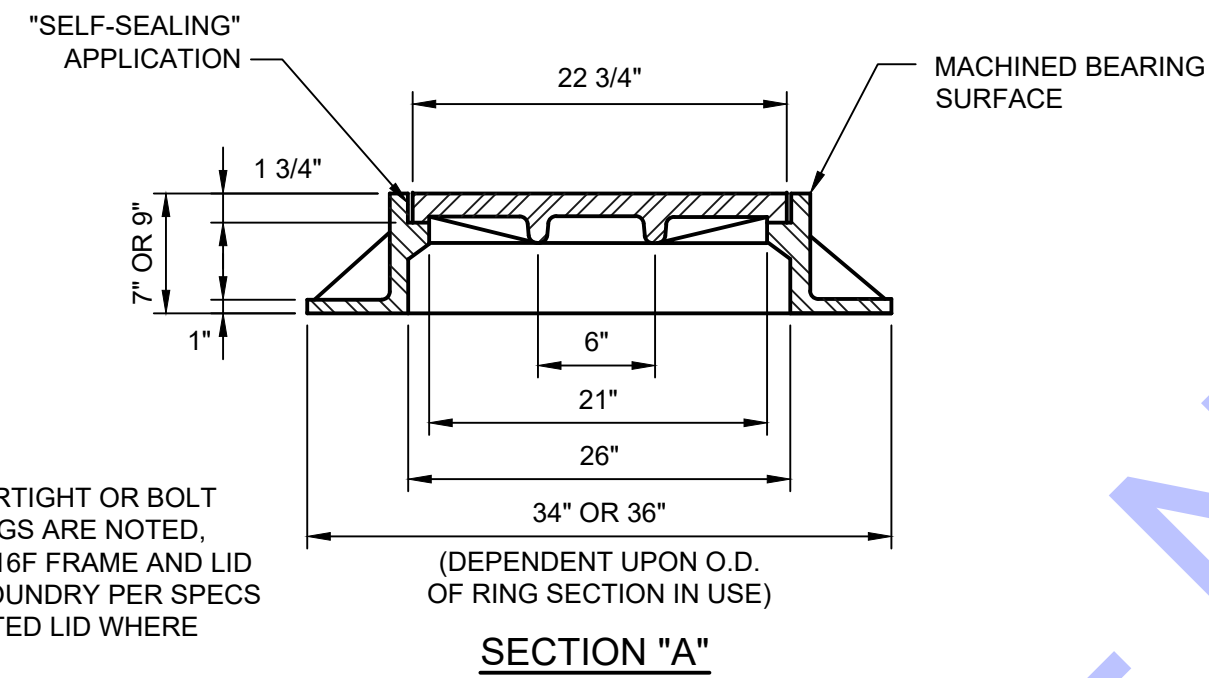


SMALL DIAMETER MANHOLE
NOT TO SCALE

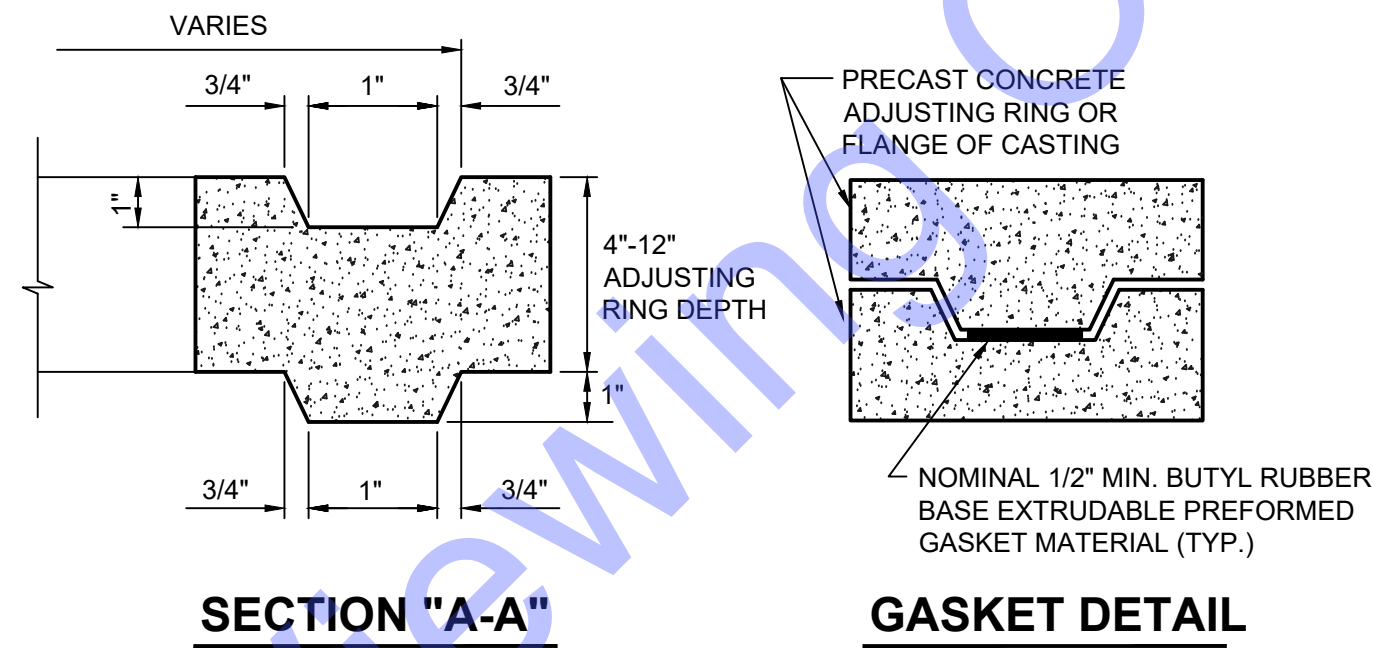


NOTES:

1. WHERE WATERTIGHT OR BOLT DOWN CASTINGS ARE NOTED, PROVIDE R-1916F FRAME AND LID BY NEENAH FOUNDRY PER SPECS
2. PROVIDE VENTED LID WHERE NOTED.

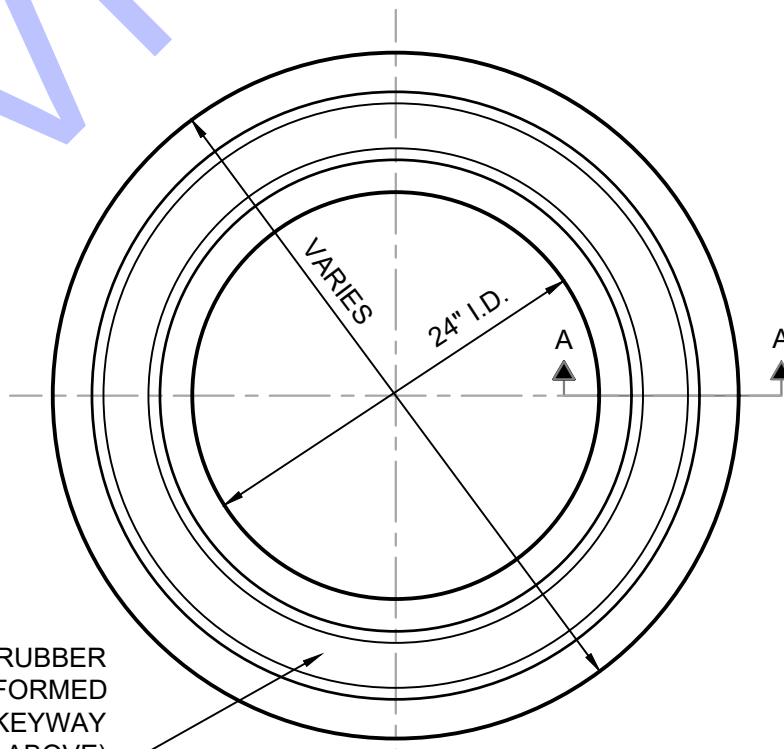


**STORM SEWER MANHOLE
FRAME AND COVER - STANDARD MANHOLE**
NOT TO SCALE



SECTION "A-A"

GASKET DETAIL



**PLAN VIEW
ADJUSTING RING DETAIL**
NOT TO SCALE

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MADISON COUNTY, INDIANA**

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PHASE 2**

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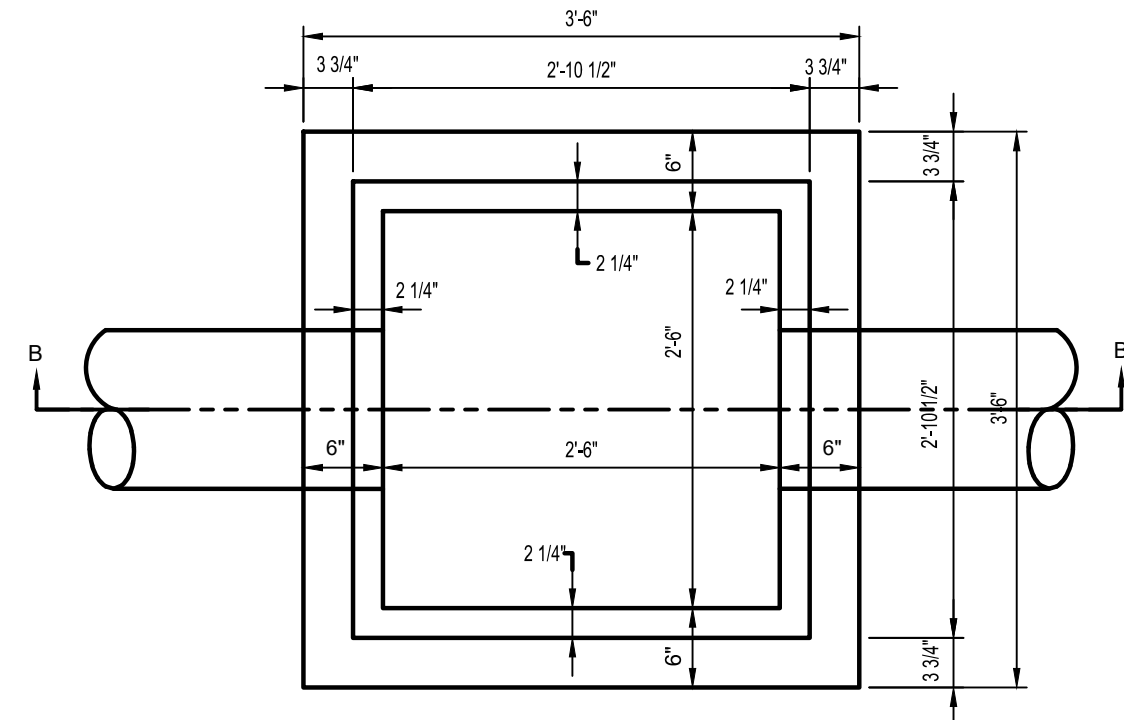
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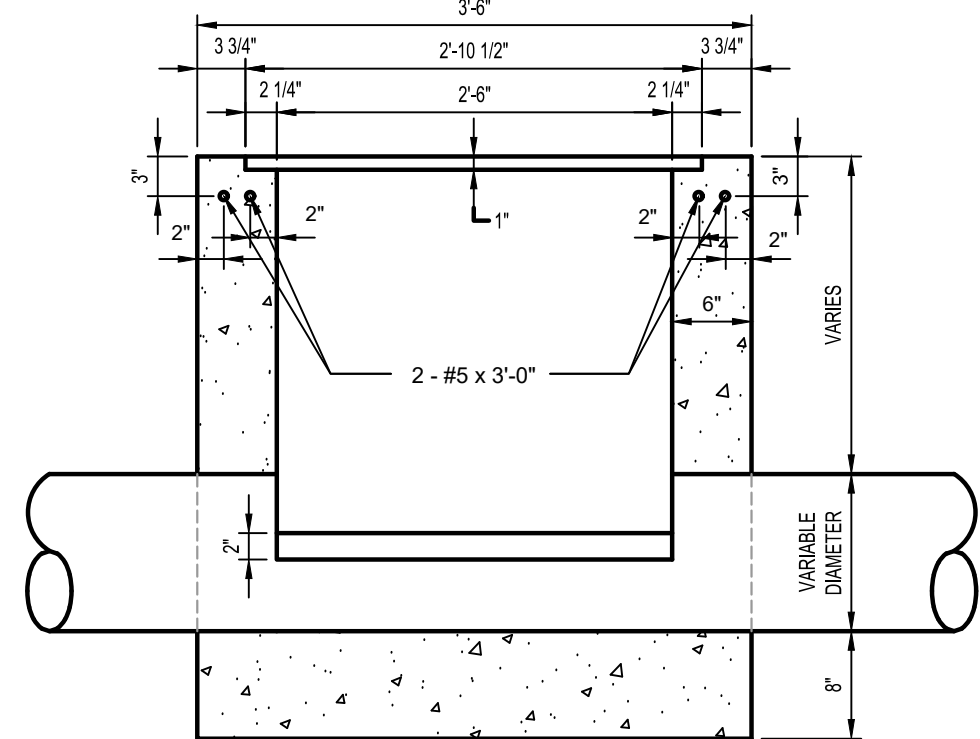
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Designed By: ACC	Drawn By: JRD	Checked By: BHA
Issue Date: 05-07-2024	Project No: D24059	Scale: AS SHOWN

MISCELLANEOUS
DETAILS



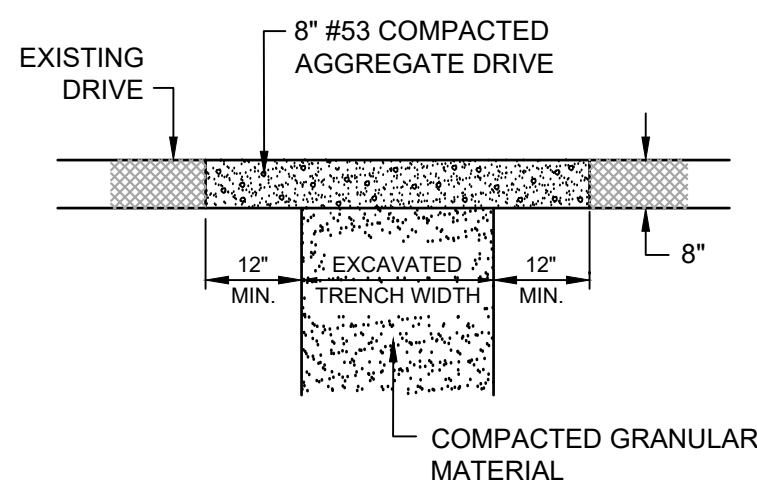
PLAN VIEW



SECTION "B-B"

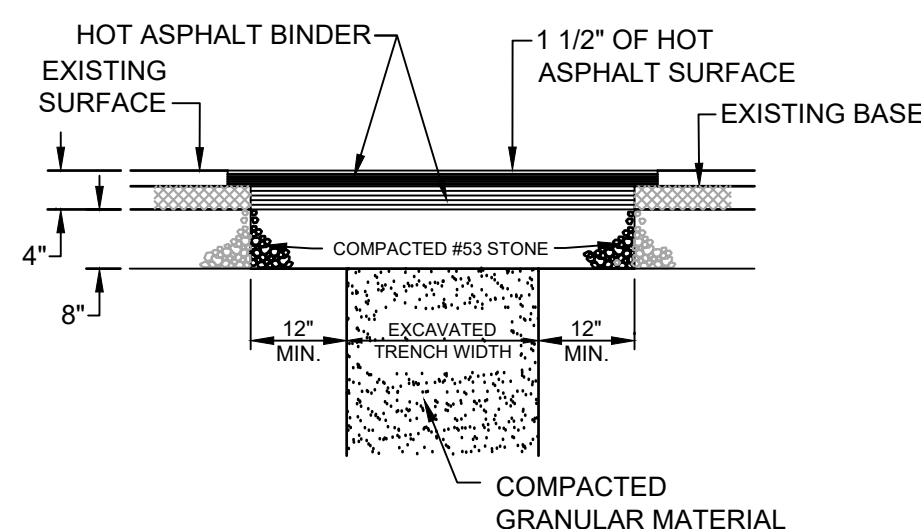
CONCRETE DRAINAGE INLET

NOT TO SCALE



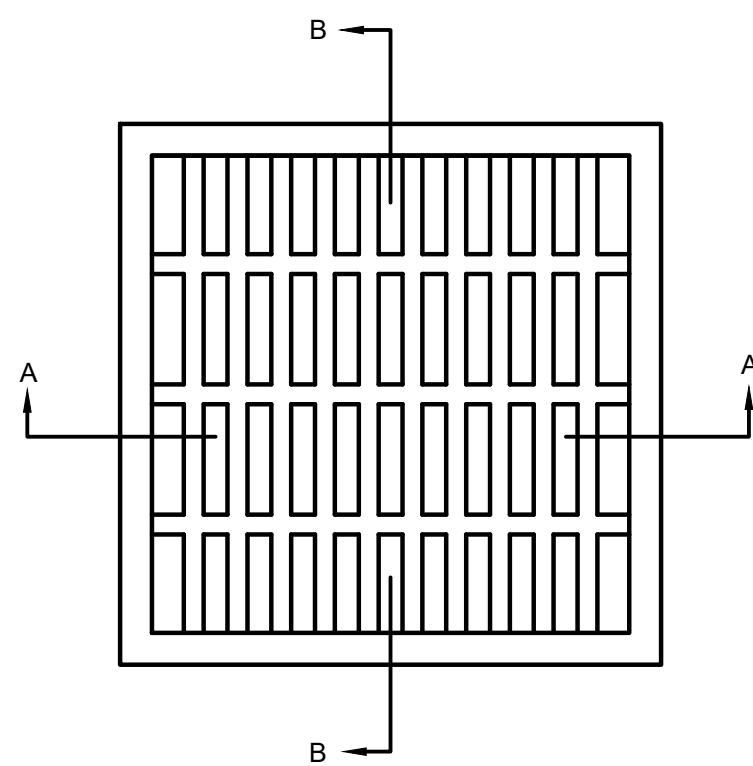
SURFACE RESTORATION DETAIL FOR GRAVEL PAVEMENT - ROAD

NOT TO SCALE

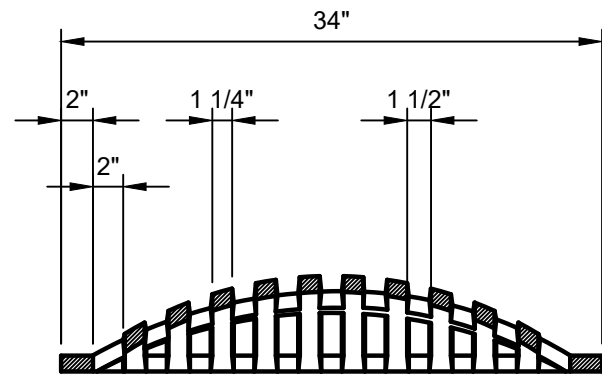


SURFACE RESTORATION DETAIL FOR ASPHALT PAVEMENT - ROAD

NOT TO SCALE



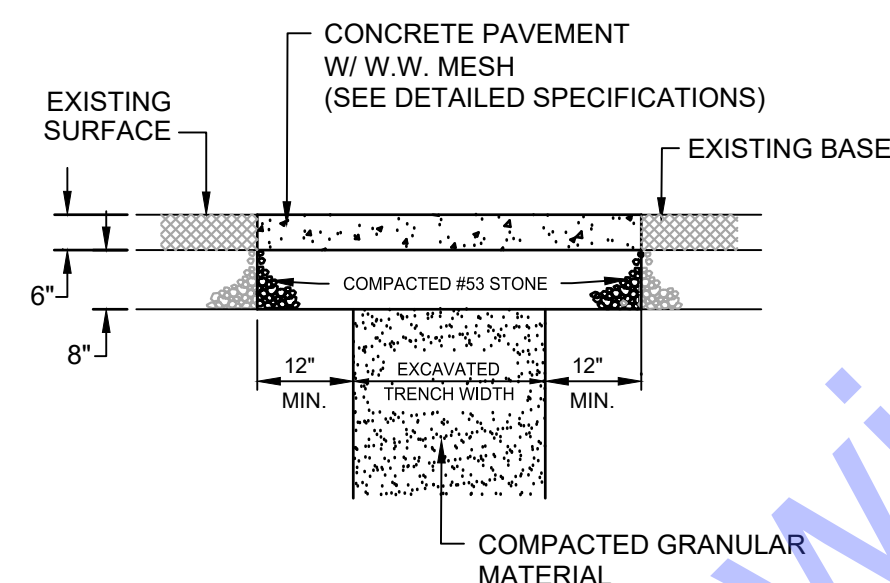
PLAN VIEW



SECTION "A-A"

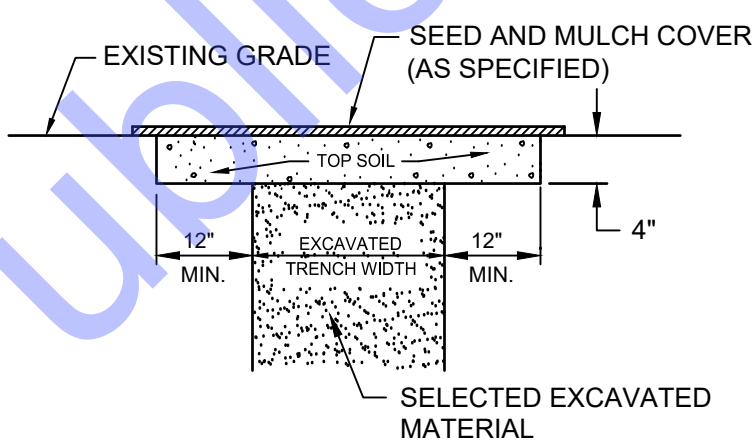
CONVEX GRATE DETAIL

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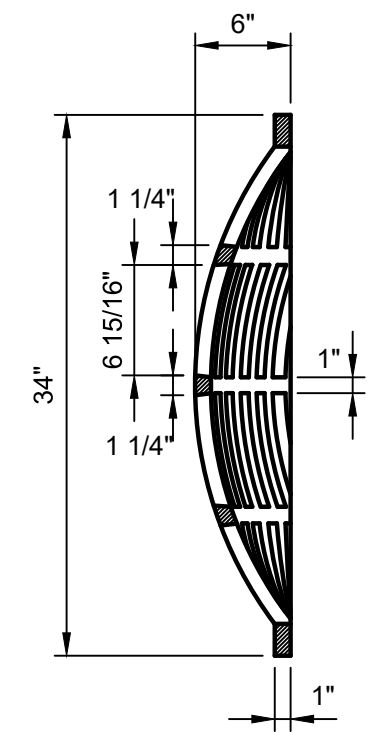
SURFACE RESTORATION DETAIL FOR CONCRETE PAVEMENT - DRIVE

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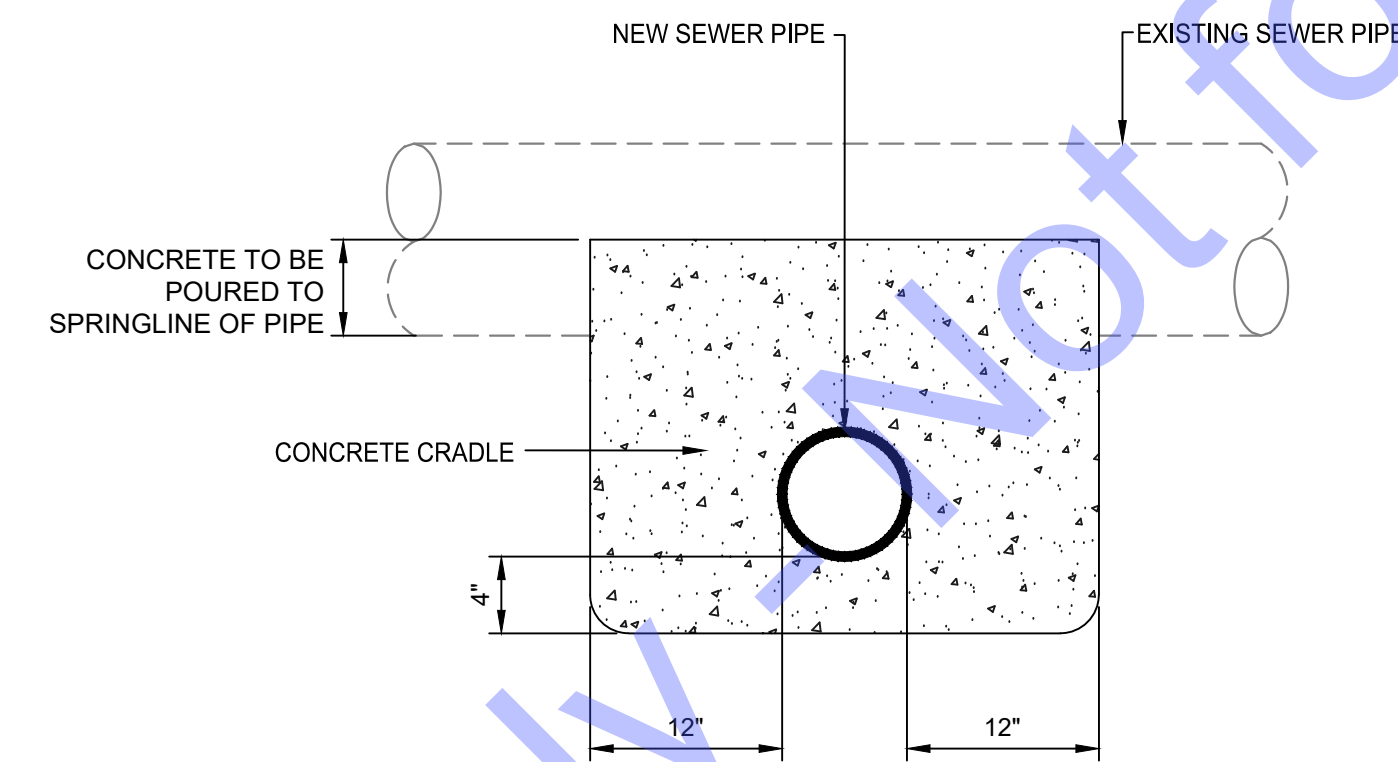


SURFACE RESTORATION DETAIL FOR GRASS AREAS

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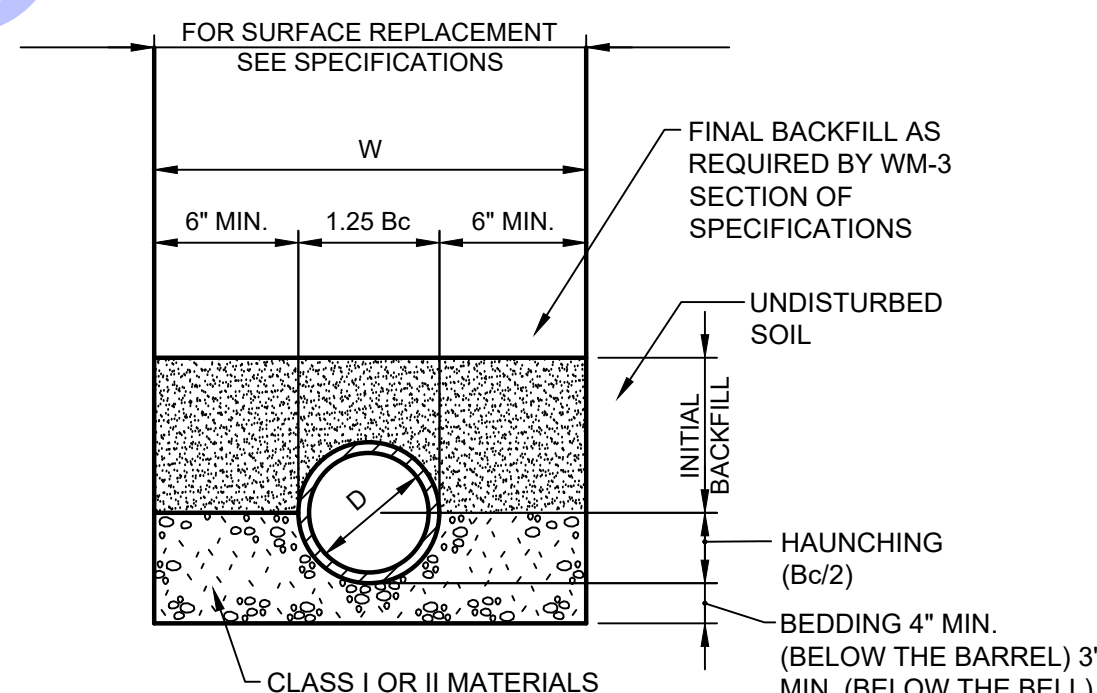


SECTION "B-B"



CONCRETE CRADLE DETAIL

NOT TO SCALE



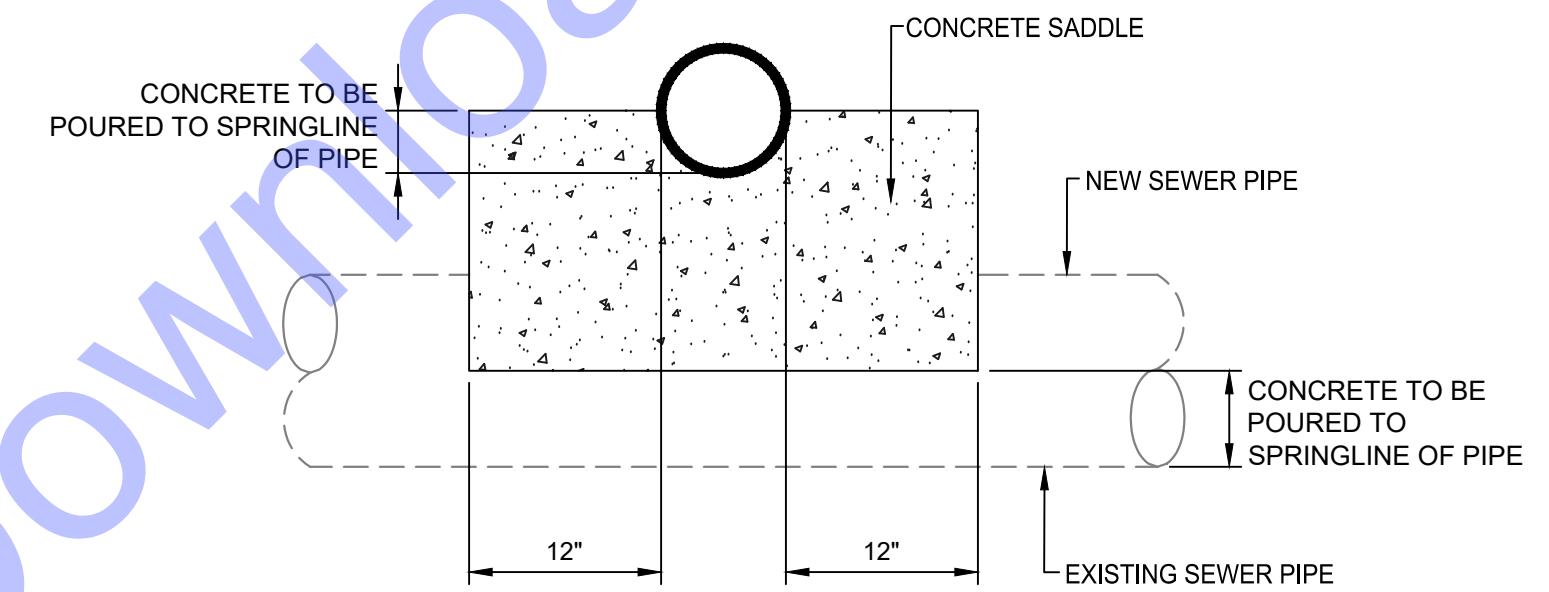
W= MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOT SIX (6) FEET FOR 27" THROUGH 48" PIPE
 D= PIPE DIAMETER (INTERNAL)
 Bc= PIPE DIAMETER (EXTERNAL)

NOTES:

1. COMPACTED BEDDING STOPS AT SPRING-LINE OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS REQUIRED HEREIN.
2. WHEN CLASS I MATERIAL IS USED FOR BEDDING COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING
3. WHEN CLASS II MATERIAL IS USED FOR BEDDING, COMPACTION SHALL BE ACCOMPLISHED ONLY BY HAND OR MECHANICAL TAMPING TO A MIN. OF 95% STANDARD PROCTOR DENSITY.
4. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. FOR ALL OTHER NON-INDOT PAVEMENT AREAS (INCLUDING BOTH HARD SURFACED AND COMPACTED AGGREGATE), COMPACTED GRANULAR BACKFILL MATERIAL SHALL BE USED WITHIN 5 FEET OF THE EDGE OF THE PAVEMENT.

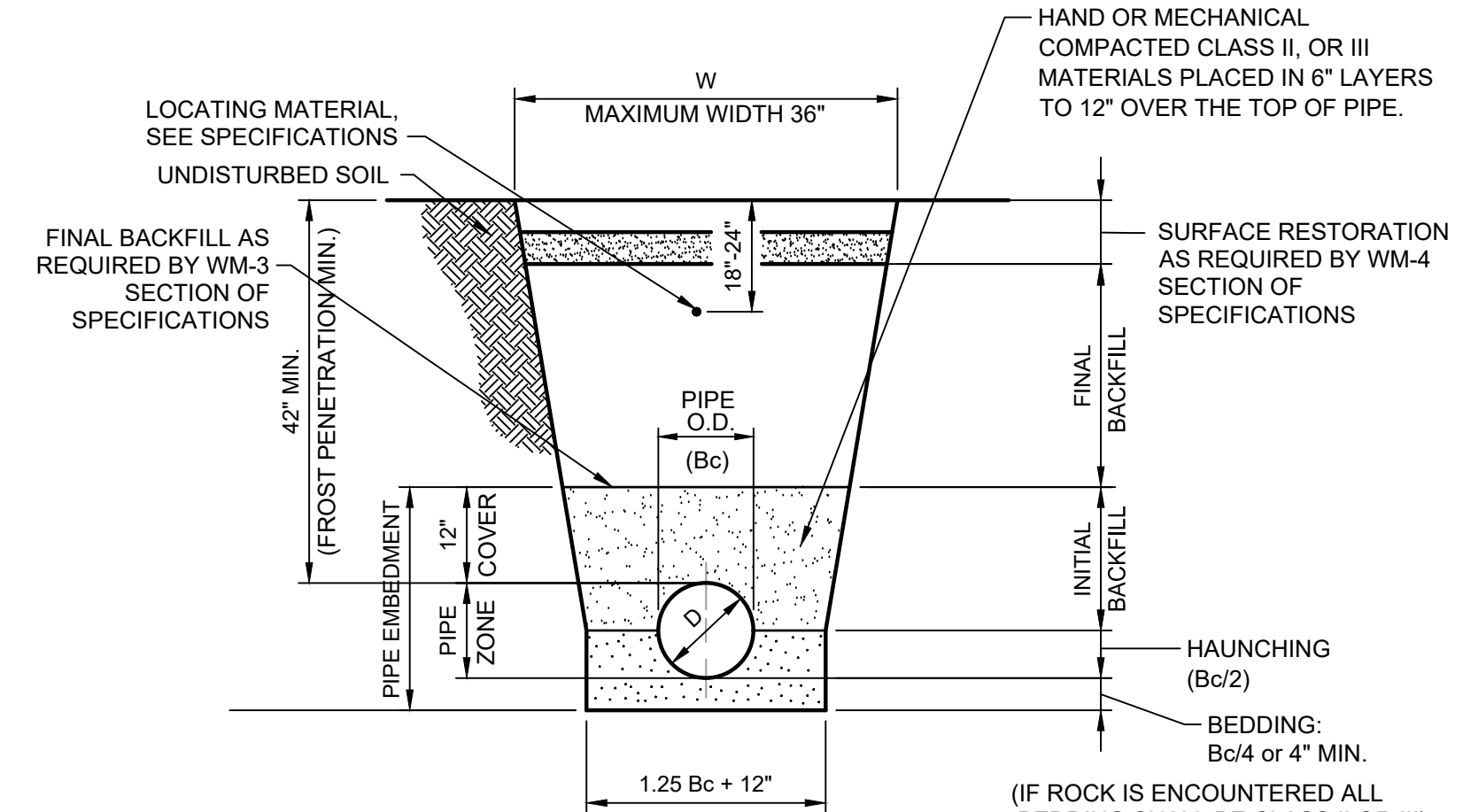
TRENCH DETAIL FOR RIGID CONDUITS

NOT TO SCALE



CONCRETE SADDLE DETAIL

NOT TO SCALE



W = MAX. ALLOWABLE TRENCH WIDTH FOR PIPE SHALL NOT TO EXCEED 30 INCHES FOR 4" THROUGH 8" PIPE, 36" FOR 8" THROUGH 12" PIPE.

D = PIPE DIAMETER (INTERNAL)
 Bc = PIPE DIAMETER (EXTERNAL)

APPLICATION

GRASSY AREA OR NEW PAVED AREAS

PAVEMENT AREA OR ANY AREA SUBJECT TO VEHICULAR TRAFFIC

BEDDING & HAUNCHING

INITIAL BACKFILL
 CLASS I, OR II MATERIAL (REFER TO WORKMANSHIP & MATERIALS SPECIFICATIONS)

 CLASS I, II OR III MATERIAL (REFER TO WORKMANSHIP & MATERIALS SPECIFICATIONS)

FINAL BACKFILL

SELECTED EXCAVATED MATERIAL

COMPACTED GRANULAR MATERIAL

NOTES:

1. INITIAL BACKFILL STOPS AT A POINT 12" ABOVE THE TOP OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDING WITH THE SPECIFICATIONS AND AS REQUIRED BY HEREIN.
2. BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CLASS I, II, OR III MATERIALS ACCORDING TO THE WORKMANSHIP AND MATERIALS SPECIFICATIONS.
3. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) OR UNDER PAVED DRIVES SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT.
4. WORK NOT FALLING UNDER THE JURISDICTION OF IN. DEPT. OF TRANSPORTATION SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 5 FEET OF THE EDGE OF PAVEMENT.

TRENCH DETAIL SEWER MAIN

NOT TO SCALE

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Designed By: ACC
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 Checked By: BHA

Issue Date: 05-07-2024
 Project No: D24059
 Scale: AS SHOWN

Drawing No: **MD4**

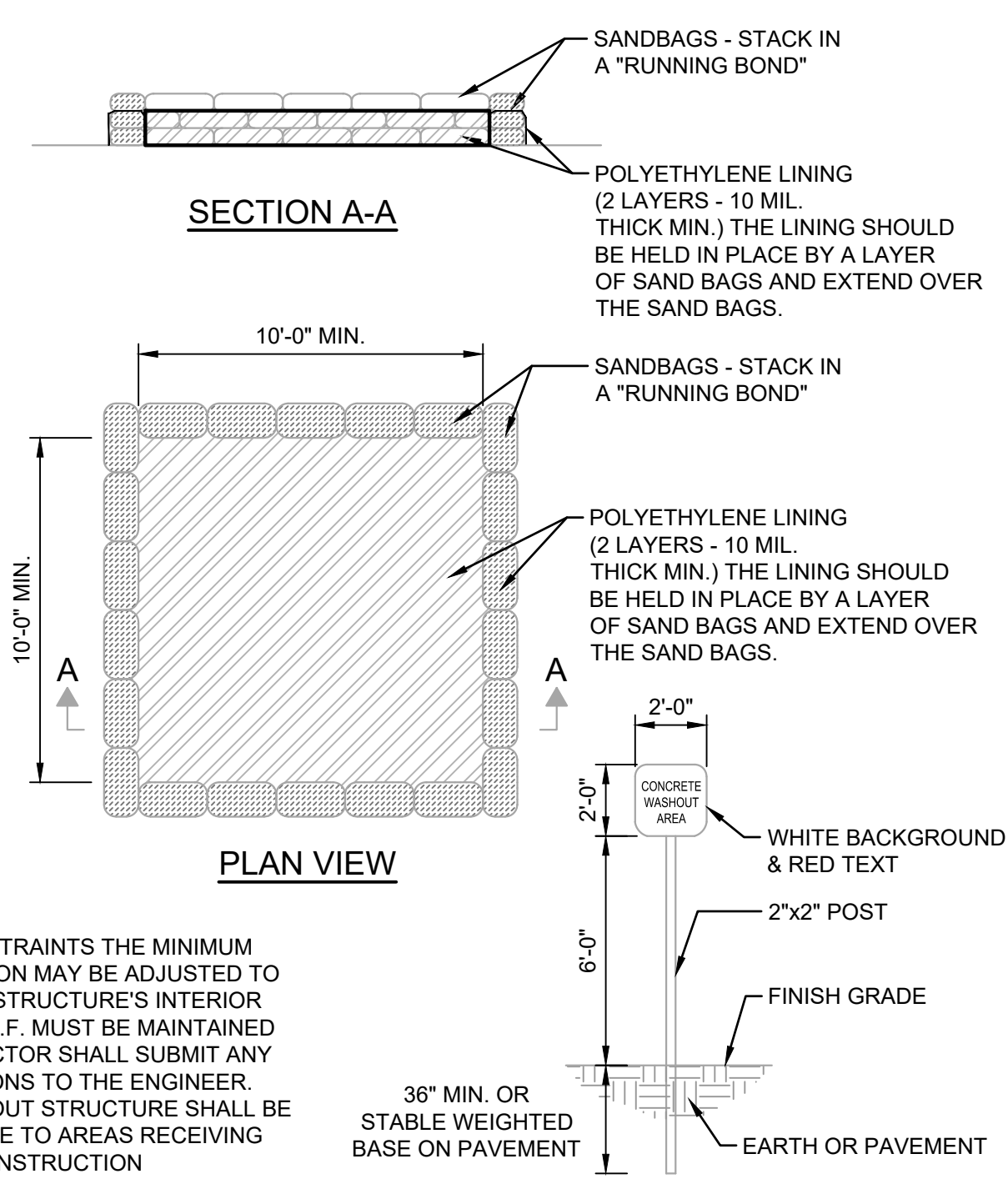
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FILE: Z:\SHARED\CLIENTS_A\LEFRANKTON\DD1133\STORMWATER IMPROVEMENTS\CAD\CURRENT FILES\1\DRAWINGS\PHASE 2\07-MISC DETAILS.DWG
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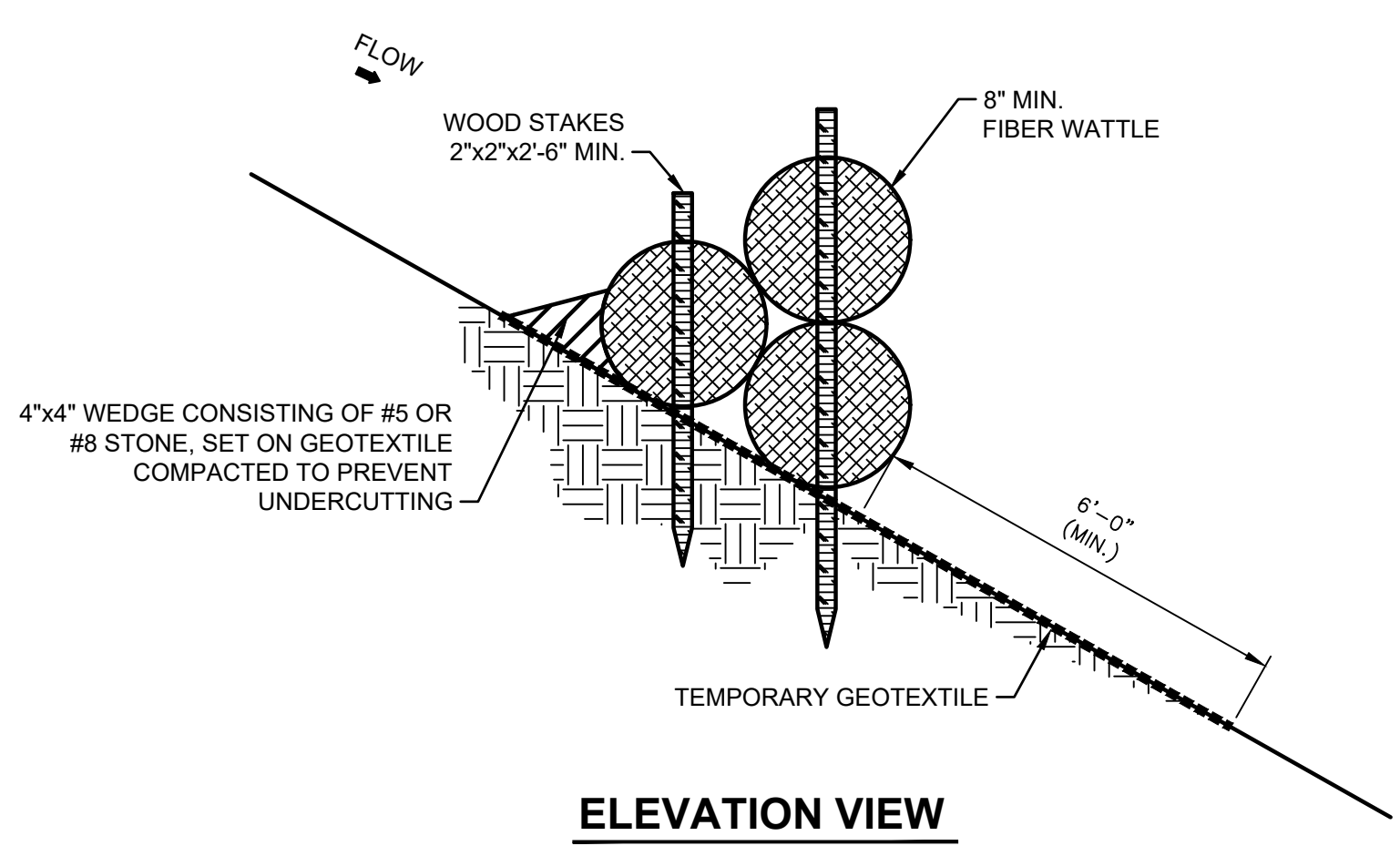
No.	Submitted / Revision	By	Date

GENERAL EROSION AND SEDIMENT CONTROL NOTES

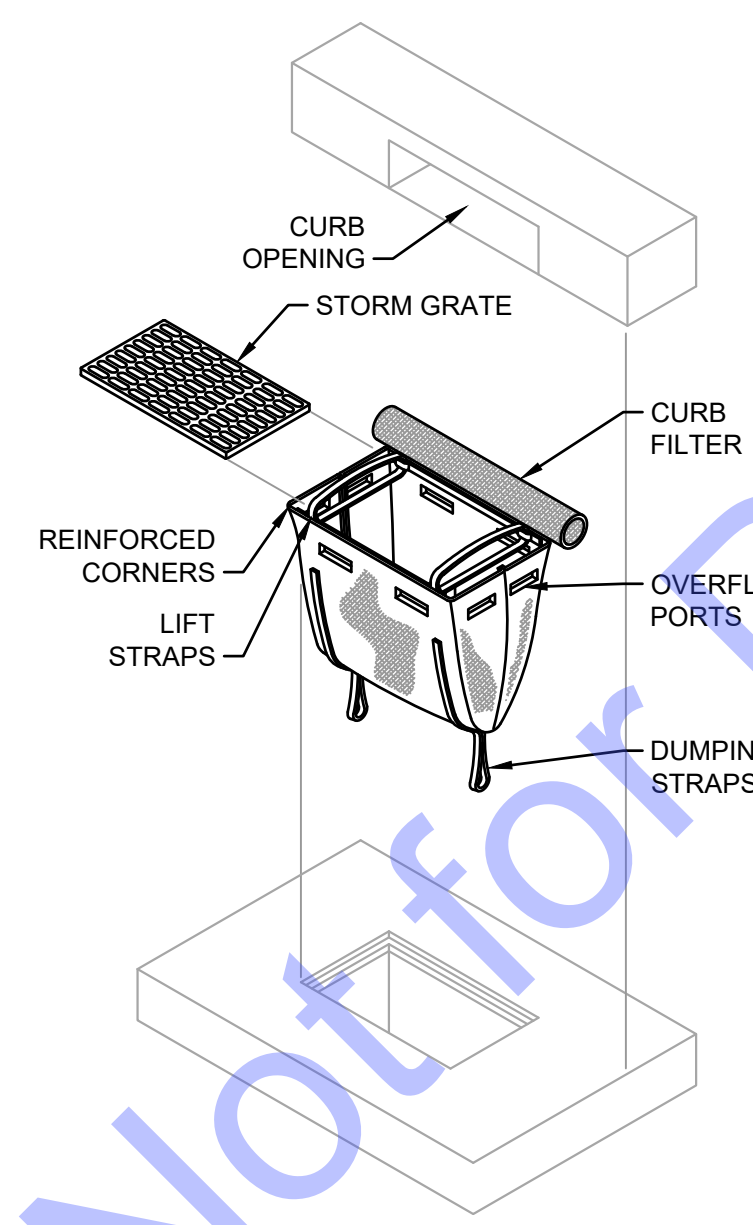
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL EROSION AND SEDIMENT CONTROL ORDINANCE, OR SWCD.
- THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE POSTED ON A SIGN INSTALLED AT OR NEAR THE SITE CONSTRUCTION TRAILER. THE NOI SHALL LIST THE CONTACT INFORMATION FOR THE SITE CONTACT PERSON. THE SIGN AND INFORMATION SHALL BE MAINTAINED AND REMAIN LEGIBLE THROUGHOUT CONSTRUCTION.
- A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
- PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
- MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
- WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
- A LOG SHALL BE MAINTAINED OF ALL INSPECTIONS (WEEKLY, AND FOLLOWING STORM EVENTS), MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES. THE LOG SHALL BE MAINTAINED ON SITE AND BE AVAILABLE UPON REQUEST TO THE OWNERS REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.



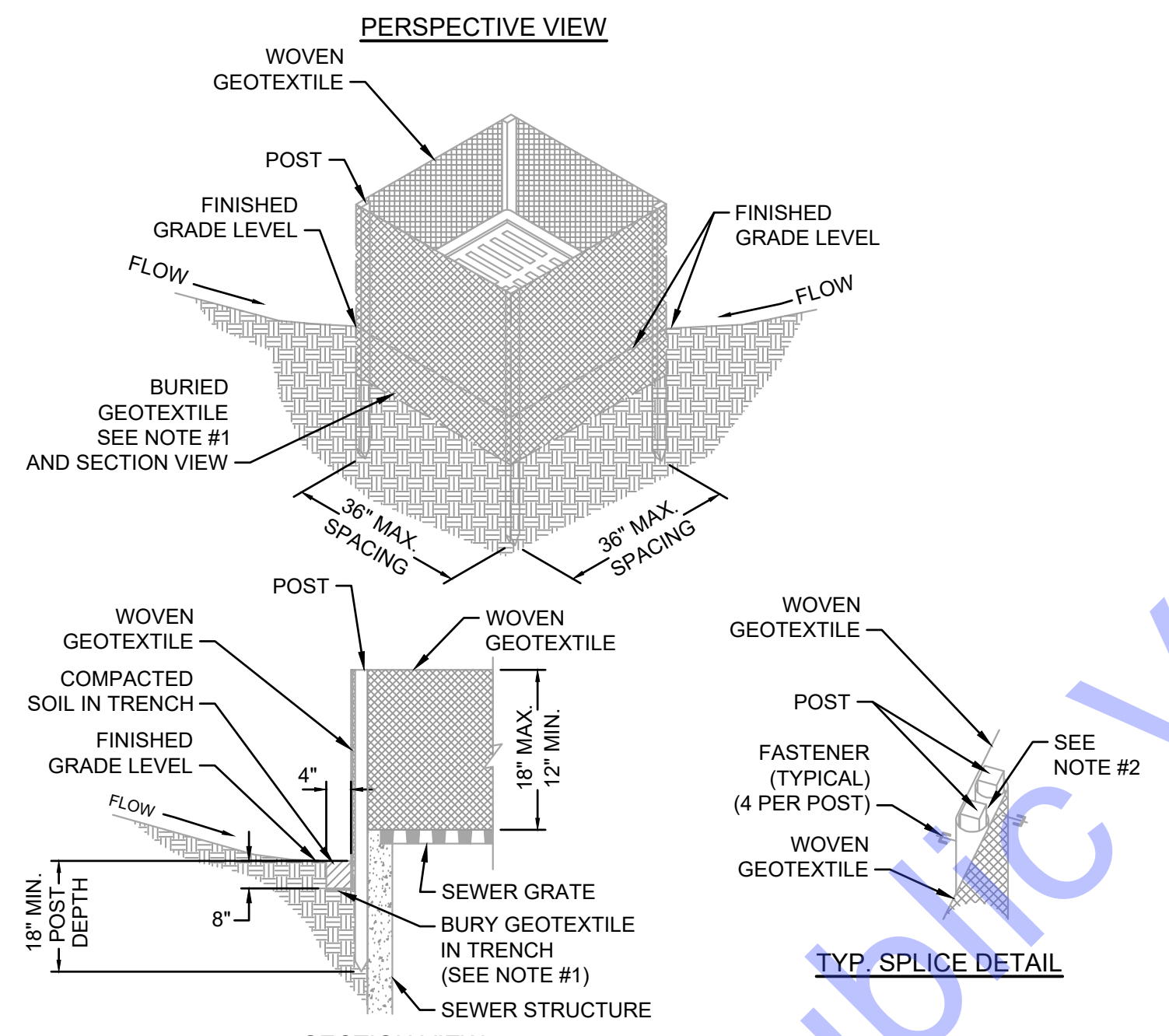
CONCRETE WASHOUT PIT DETAIL
NOT TO SCALE



ROLLED EROSION CONTROL PRODUCT DETAIL
NOT TO SCALE

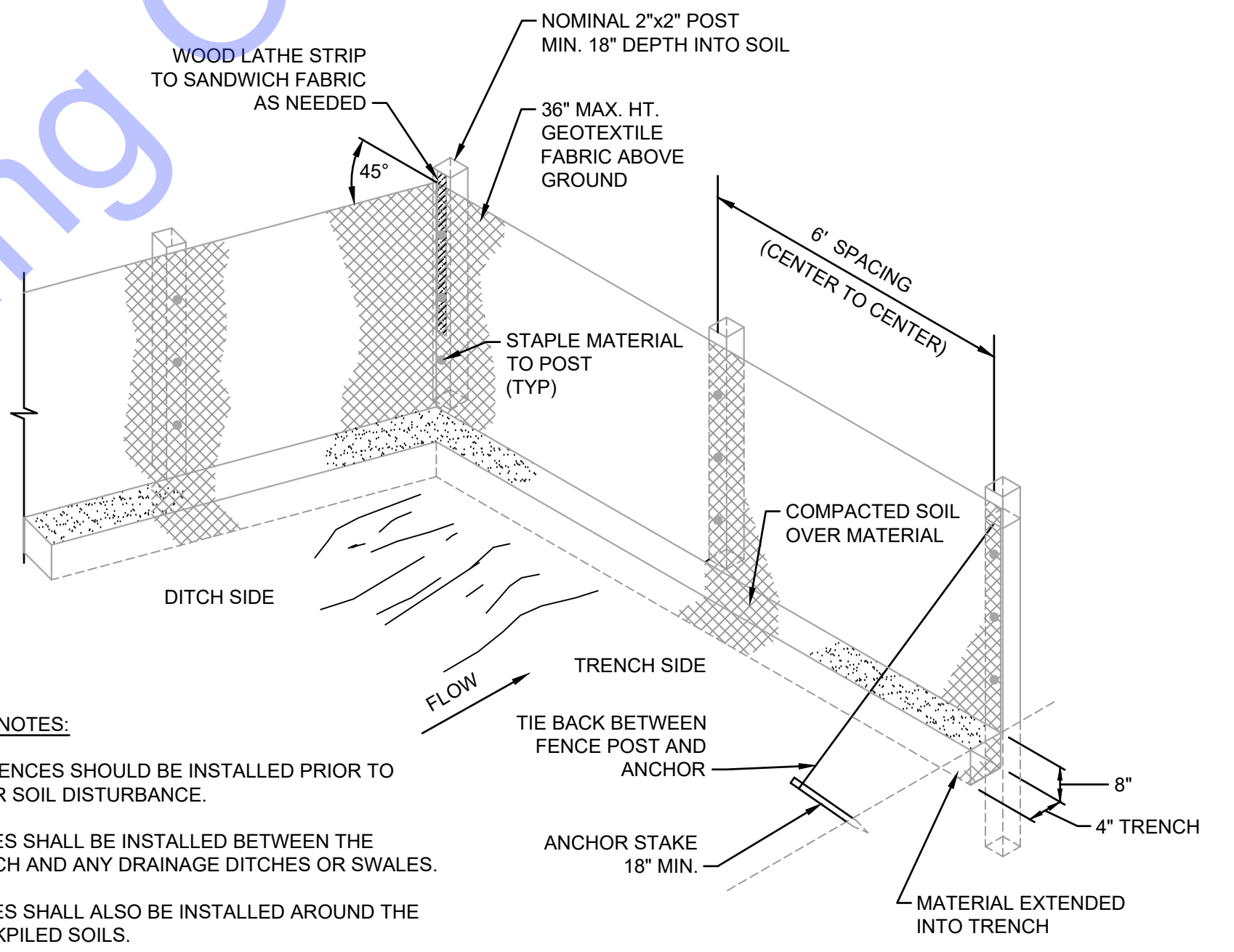


INSERT (BASKET) CURB INLET PROTECTION DETAIL
NOT TO SCALE



- NOTES:**
- GEOTEXTILE FABRIC LAID ON DOWN-SLOPE SIDE AND BOTTOM OF TRENCH ALONG FULL PERIMETER OF SEWER STRUCTURE. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS.
 - IF SPLICING IS NECESSARY, FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO CREATE A SEAMLESS JOINT AND PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP. JOINING SECTIONS SHALL NOT BE PLACED IN LOW SPOTS OR IN SUMP LOCATIONS.
 - PREFABRICATED UNITS MAY BE USED WITH PRIOR APPROVAL FROM PROJECT ENGINEER.

YARD INLET PROTECTION DETAIL
NOT TO SCALE



- GENERAL NOTES:**
- SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
 - FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
 - FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
 - THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
 - TIE BACKS SHALL BE PLACED AS REQUIRED.

SILT FENCE DETAIL
NOT TO SCALE

