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Hannibal, MO – Phone (573) 221-0020
www.klingner.com

December 21, 2021

Pemiscot County Port Authority 2353 N. State Hwy D Hayti, MO 63851

BIDDING ADDENDUM 6

For work titled: Site Improvements Caruthersville, MO Project Number: 19-0025 Agency Project Number:

TO ALL BIDDERS

GENERAL NOTES

This addendum is issued for the purpose of clarifying the intent of the contract documents or for making necessary corrections, deletions, and/or additions to the documents on all items of discrepancy raised up to the time of the issuance of this addendum.

Each bidder is hereby instructed and authorized to incorporate into his proposal the instructions contained in this addendum. This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated November 1, 2021. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

This addendum consists of two (2) - 81/2" x 11" page

PROJECT PLANS

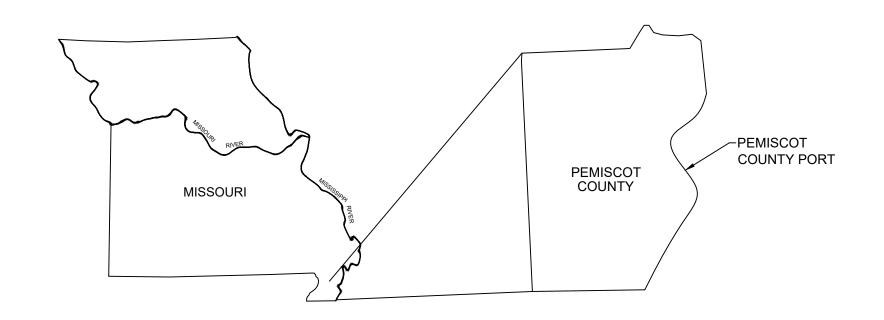
Clarification: These plans have been updated with additional contour labels for clarity.

All other terms and conditions of the Project Manual and Drawings shall remain unchanged.

END OF ADDENDUM 6

SITE IMPROVEMENTS PEMISCOT COUNTY PORT AUTHORITY CARUTHERSVILLE, MISSOURI

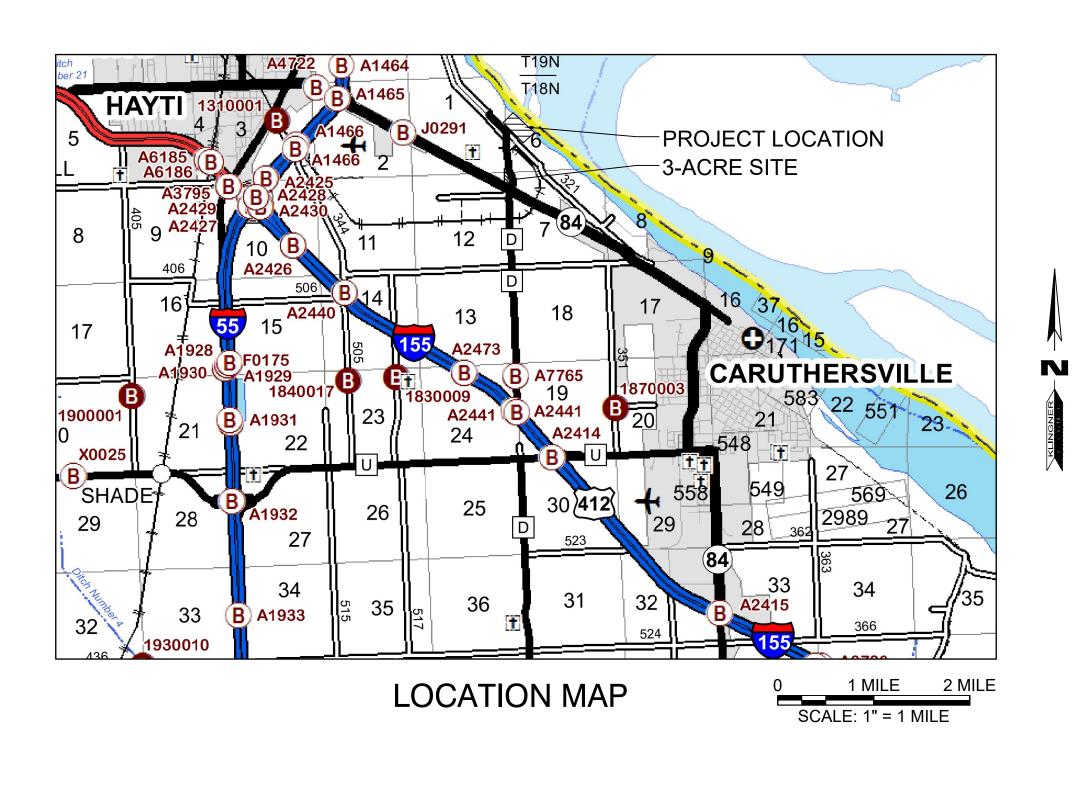
OCTOBER 2021 (REVISED DECEMBER 2021)



APPLICABLE STANDARDS

suitable and safe for each intended application (during construction, adjusting, testing and use) and be in full compliance with applicable standards, rules, requirements, regulations, codes, statutes, ordinances, etc. of municipal, county, & state governments, owner's insurance company, local utilities,

Owner/Contractor(s) shall be responsible for all construction activities and for compliance with applicable local, state and federal laws and regulations concerning information not specifically shown.



INDEX OF SHEETS

COVER SHEET GENERAL NOTES & LEGEND **EXISTING CONDITIONS & SITE DEMOLITION PLAN** OVERALL SITE PLAN LEVEE ACCESS ROAD PLAN & PROFILE SPUR ROAD PLAN & PROFILE LEVEE ROAD PLAN & PROFILE STA. 0+00 TO 10+80 LEVEE ROAD PLAN & PROFILE STA. 10+80 TO 21+60 LEVEE ROAD PLAN & PROFILE STA. 21+60 TO 26+22.62 **OVERALL GRADING & EROSION CONTROL PLAN** ENLARGED GRADING & EROSION CONTROL PLAN (NORTH) ENLARGED GRADING & EROSION CONTROL PLAN (SOUTH) **ENLARGED GRADING & EROSION CONTROL PLAN (WEST)** STORM WATER POLLUTION PREVENTION PLAN C111 SWPPP DETAILS C112 SWPPP DETAILS

MISCELLANEOUS SITE DETAILS C502 PAVEMENT DETAILS

EDA AWARD NUMBER: 05-79-06035



PROFESSIONAL ENGINEER OCTOBER 1, 2021 PROFESSIONAL ENGINEER STATE OF MISSOURI NO. PE 2013025031 LICENSE EXPIRES 12/31/23

FULL SIZED PLANS HAVE BEEN PREPARED USING STANDARD SCALES REDUCED SIZED PLANS MAY NOT CONFORM TO STANDARD SCALES. USE GRAPHIC SCALES WHEN MAKING MEASUREMENTS ON REDUCED



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Hannibal, Missouri 4510 Paris Gravel Road Burlington, IA Pella, IA Columbia, MO

573.221.0020

CERTIFICATE OF AUTHORITY # E 000866

SET NO.

PROJECT NO. 19-0025

SHEET 1 OF 18 SHEETS

GENERAL NOTES

- 1. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 2. ANY DISCREPANCIES BETWEEN SPECIFICATIONS, DRAWINGS, AND/OR SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 3. ALL AREAS DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THE DRAWINGS.
- 5. THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE LOCAL, STATE, & FEDERAL CODES ARE FOLLOWED. ALL APPLICABLE LOCAL AND STATE NOTIFICATIONS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION, INCLUDING ALL NECESSARY UTILITY CONNECTION PERMITS FROM THE RESPECTIVE UTILITIES.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND SERVICES REQUIRED DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL REFERENCE POINTS, BENCHMARKS, MONUMENTS, STAKES, AND PROPERTY CORNERS DURING CONSTRUCTION. REPLACEMENT OF LOST REFERENCE POINTS SHALL BE AT THE CONTRACTORS EXPENSE.
- 8. REMOVE ALL STRUCTURES, FOUNDATIONS, WALLS, PAVEMENTS, AND ALL OTHER ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- 9. REFERENCES TO "STANDARD SPECIFICATIONS" SHALL MEAN THE MISSOURI DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", LATEST ADDITION.
- 10. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. NO WORK SHALL BE PERFORMED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT OWNER APPROVAL
- 12. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS. ROADWAYS, AND THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST IN AND AROUND ALL WORK AND STAGING AREAS.
- 13. ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- 14. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- 15. IF A DISCREPANCY IN THE SPOT ELEVATIONS IS NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTING. IF THERE IS A DISCREPANCY BETWEEN THE SPOT ELEVATIONS AND CONTOURS, THE CONTOURS SHALL GOVERN.
- 16. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS. WORK ON OR ADJACENT TO MODOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MODOT PERMIT.
- 17. THE WORK ON OR ADJACENT TO MISSOURI ROUTE D SHALL UTILIZE MODOT TRAFFIC CONTROL STANDARDS AND BE APPROVED BY THE STATE OF MISSOURI PRIOR TO CONSTRUCTION.

PAVEMENT NOTES

- 1. PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
- 2. PROOF-ROLL SUBGRADE WITH A MINIMUM 25 TON G.V.W. TRUCK TO IDENTIFY AREAS OF SOFT OR UNSTABLE SUBGRADE. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIALS.
- 3. PAVEMENT MARKING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEPT AS NECESSARY TO REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTAINED ON THE PAVEMENT.
- 4. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, OR PROPERTY LINES UNLESS OTHERWISE NOTED. ALL RADII ARE TO EDGE OF PAVEMENT

GRADING NOTES

- 1. TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES WITHIN PROPOSED PAVEMENT AREAS AND STOCKPILED ON SITE FOR USE IN FINAL GRADING (COORDINATE WITH OWNER).
- 2. TOPSOIL SHALL BE LOAMY IN NATURE, FREE FROM HARD CLODS, STIFF CLAY, SOD, STONES, ROOTS, STICKS, AND OTHER DEBRIS OVER 1 INCH IN SIZE. TOPSOIL SHALL BE FREE OF TOXIC MATERIALS AND SHALL HAVE A pH RANGE BETWEEN 5.5 AND 7.0.
- 3. ALL EXCESS MATERIALS NOT USED FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
- 4. PROPOSED CONTOURS ARE INTENDED TO PROVIDE A MIN. 0.7% SLOPE IN PAVEMENT AREAS AND 1% IN TURFED AREAS, CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING A SMOOTH UNIFORM DRAINING SURFACE THAT DOES NOT CREATE PONDING WATER OR SHARP BREAKS. CONTOURS OR ELEVATIONS THAT WILL NOT PROVIDE SUCH SURFACE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 5. FINAL ELEVATIONS INDICATED ARE THE FINISHED SURFACE ELEVATIONS, WHETHER GRASS, CONCRETE, PAVEMENT, OR MULCH. THE CONTRACTOR SHALL COORDINATE SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT, CONCRETE OR MULCH DEPTHS.
- 6. ALL DISTURBED AREAS NOT WITHIN PAVEMENT AREAS SHALL BE SEEDED PER THE SPECIFICATIONS. THE AREAS INDICATED TO BE SEEDED ON THIS PLAN ARE ESTIMATED DISTURBED AREAS. DISTURBED AREAS OUTSIDE OF THOSE INDICATED SHALL BE SEEDED REGARDLESS OF THE LIMITS INDICATED.
- 7. SLOPES 4:1 AND STEEPER SHALL RECEIVE A TEMPORARY EROSION CONTROL BLANKET. PROVIDING PROTECTION FOR UP TO 12 MONTHS IN ACCORDANCE WITH SECTION 806 OF THE MoDOT STANDARD SPECIFICATIONS.

EROSION CONTROL NOTES

- 1. EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE DETAILS IN THESE PLANS, AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARDS AND REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.
- 2. THE EROSION CONTROL SHOWN ON THIS SET OF PLANS SHALL BE CONSIDERED THE MINIMUM ACCEPTABLE FOR THIS PROJECT. THERE MAY BE ADDITIONAL EROSION CONTROL REQUIRED DUE TO THE VARIOUS CONSTRUCTION TECHNIQUES, WHICH MAY BE USED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AND MAINTAINING ALL THE RUNOFF FROM THE SITE, IN A MANNER WHICH KEEPS ALL SILT ON SITE.
- 3. A LAND DISTURBANCE PERMIT HAS BEEN ACQUIRED SINCE MORE THAN 1 ACRE OF LAND WILL BE DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL IN ACCORDANCEWITH THE PERMIT.
- 4. TEMPORARY AND PERMANENT SEEDING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS.

UTILITY NOTES

- 1. THE LOCATION OF EXISTING UTILITIES IN CONSTRUCTION AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY CONTACTING THE MISSOURI ONE CALL SYSTEM, INC. OR THE INDIVIDUAL UTILITIES NOT PARTICIPATING IN THIS SYSTEM. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. ANY REPAIR OR RELOCATION REQUIRED, AS A RESULT OF DAMAGE BY CONSTRUCTION ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PAY UTILITY PERMIT AND/OR INSPECTION FEES.
- 2. UTILITY TRENCHES WITHIN PAVEMENT AREAS SHALL BE BACKFILLED WITH APPROVED COMPACTED GRANULAR BACKFILL.
- 3. ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- 4. THE DRAWINGS INDICATE THE BEST KNOWLEDGE OF THE OWNER AND ENGINEER/ARCHITECT ON THE GENERAL LOCATION AND NATURE OF THE EXISTING AND OR PROPOSED UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION. EXPLORATORY EXCAVATIONS AT THE SITE TO DETERMINE INSITU LOCATIONS WERE NOT CONDUCTED. QUALITY LEVEL C IN ACCORDANCE WITH CI/ASCE 38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA, WAS UTILIZED. REGARDLESS OF THE LEVEL OF INVESTIGATION, THE UTILITIES SHOWN SHOULD NOT BE CONSIDERED A WARRANTY OR GUARANTEE OF ACTUAL PRESENCE OR LOCATION AND THE CONTRACTOR REMAINS RESPONSIBLE FOR THE LOCATION, VERIFICATION, AND PROPER NOTIFICATION OF POTENTIAL UTILITIES.

QUALITY LEVELS:

QUALITY LEVEL A - PROVIDES THE HIGHEST LEVEL OF ACCURACY. BY LOCATING OR POTHOLING UTILITIES IN ADDITION TO QUALITY LEVELS B, C, AND D TASKS. THE LOCATED UTILITY INFRASTRUCTURE IS SURVEYED AND MAPPED TO DEVELOP PLAN AND PROFILE INFORMATION.

QUALITY LEVEL B - INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND RECORDING THE INFORMATION THROUGH A SURVEY METHOD. IN ADDITION TO QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL C - INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. IN ADDITION TO QUALITY LEVEL D TASKS

QUALITY LEVEL D - INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS, THAT MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASE, CONSTRUCTION PLANS, ETC. DATABASES, CONSTRUCTION PLANS, ETC.

BENCHMARKS:

. RAILROAD SPIKE IN POWER POLE NEAR LEVEE

CROSSING IN MIDDLE OF DREDGE SITE - ELEV 282.82

Know w

— NOTE —

UTILITY INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM, INC. AT 811 OR 1-800-344-7483 AND THE INDIVIDUAL UTILITIES NOT INCLUDED IN THIS SYSTEM FOR THE LOCATION OF ALL EXISTING UTILITIES.

ABBREVIATIONS		LEGE	END
FL FLOWLINE ELEVATION	EXISTING	PROPOSED	
TC TOP OF CURB ELEVATION			PROPERTY LINE
GL GUTTER LINE ELEVATION			· LOT LINE
TG TOP OF GRATE ELEVATION			RIGHT OF WAY LINE
STA STATION			CENTERLINE
FES FLARED END SECTION			- EASEMENT
SWI STORM WATER INLET			BUILDING SETBACK
FFE FINISH FLOOR ELEVATION HP HIGH POINT	V		CONSTRUCTION LIMITS
LP LOW POINT	X	x	· FENCE LINE · CHAIN LINK FENCE
TW TOP OF WALL ELEVATION		 0	FENCE W/ SQUARE POSTS
BW BOTTOM OF WALL ELEVATION			· STREAM
DS DOWNSPOUT	_//////////////////////////////////////		• STRUCTURE
OHWM ORDINARY HIGH WATER MARK			PAVEMENT MARKINGS
EP EDGE OF PAVEMENT ELEVATION			EDGE OF PAVEMENT
(M) MATCH EXISTING ELEVATION			CURB AND GUTTER
N.I.C. NOT IN CONTRACT	_ · · · · · -	= -	•
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TOPO SUP Klingner & Associates, P.C. - Engine

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Missouri State Certificate of Authority # E-000866



MO# 2013025031

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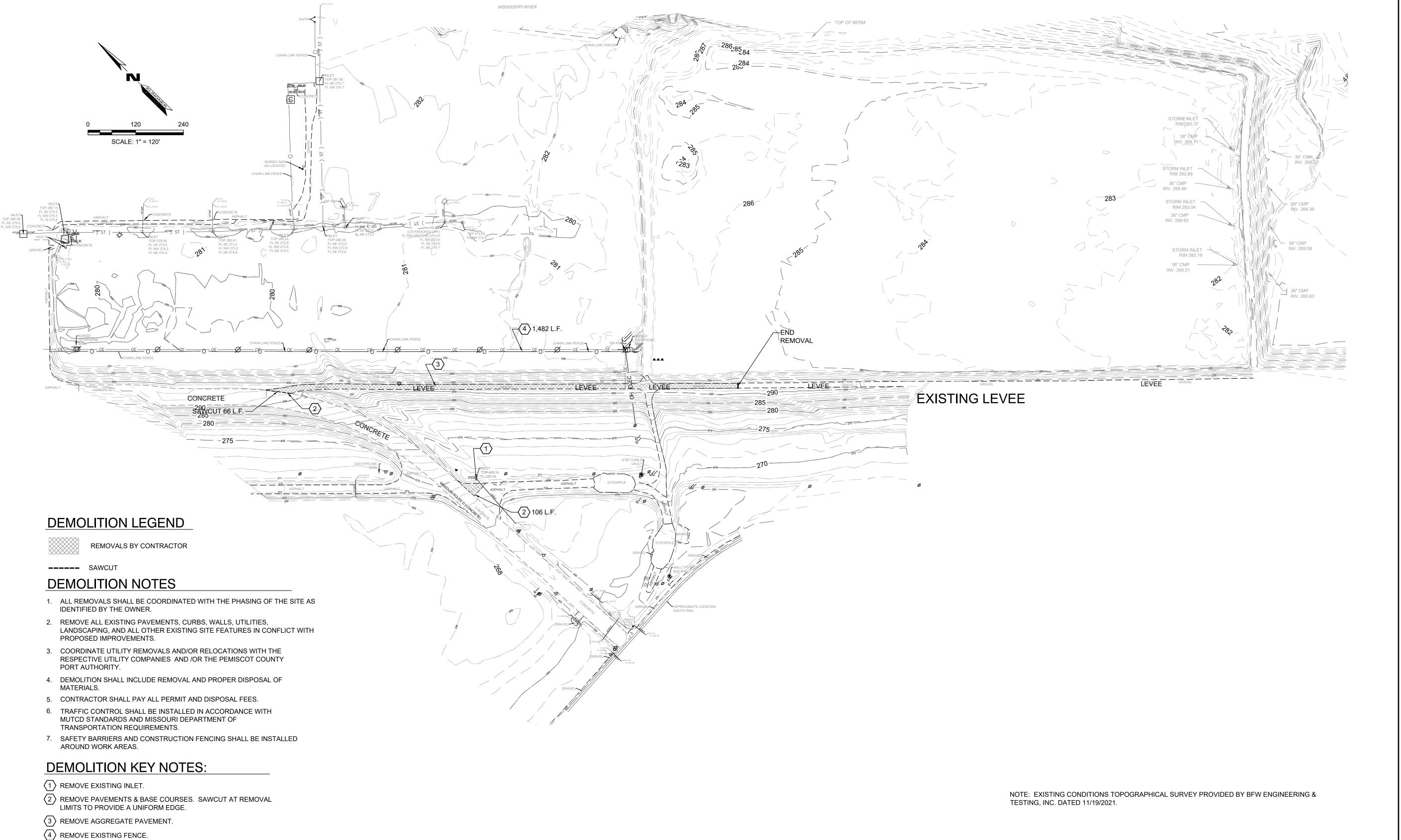
GENERAL NOTES & LEGEND

DECIDUOUS TREE

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CONIFEROUS TREE

PROJECT NO. DRAWING ISSUED DATE: 10/01/2021 SHEET



BENCHMARKS:

1. RAILROAD SPIKE IN POWER POLE NEAR LEVEE CROSSING IN MIDDLE OF DREDGE SITE - ELEV 282.82 Non-Reduced Sheet Size: 22" x 34"

Full sized plans have been prepared using standard scales Reduced size plans may not conform to standard scales DESIGNED DRAWN DCD DCD

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SITE

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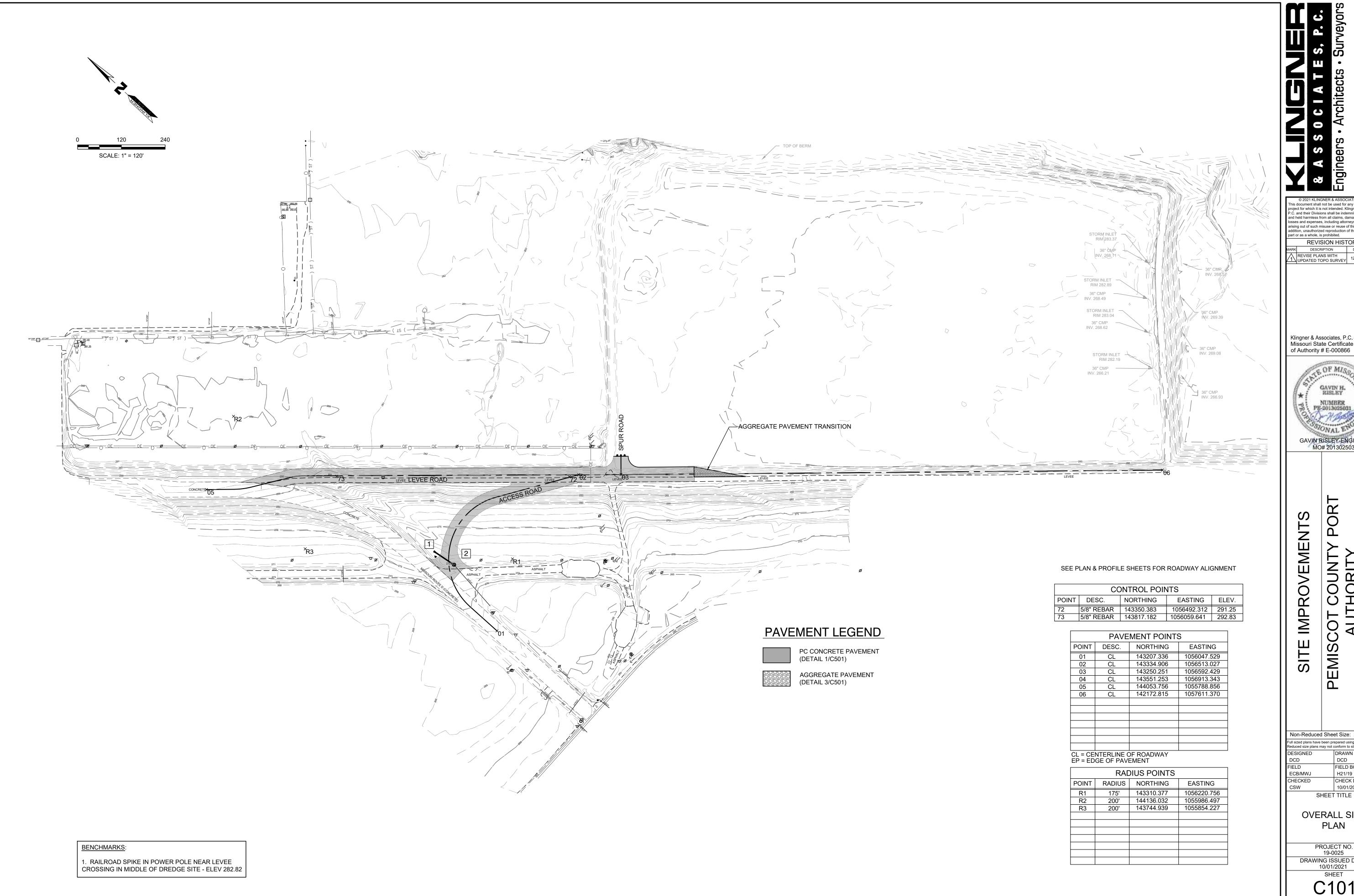
GAVIN RISLEY-ENGINEER MO# 2013025031

of Authority # E-000866

EXISTING
CONDITIONS &
SITE DEMOLITION
PLAN

PROJECT NO. 19-0025 DRAWING ISSUED DATE: 10/01/2021 SHEET

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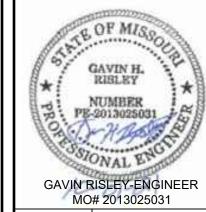
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12/13/21

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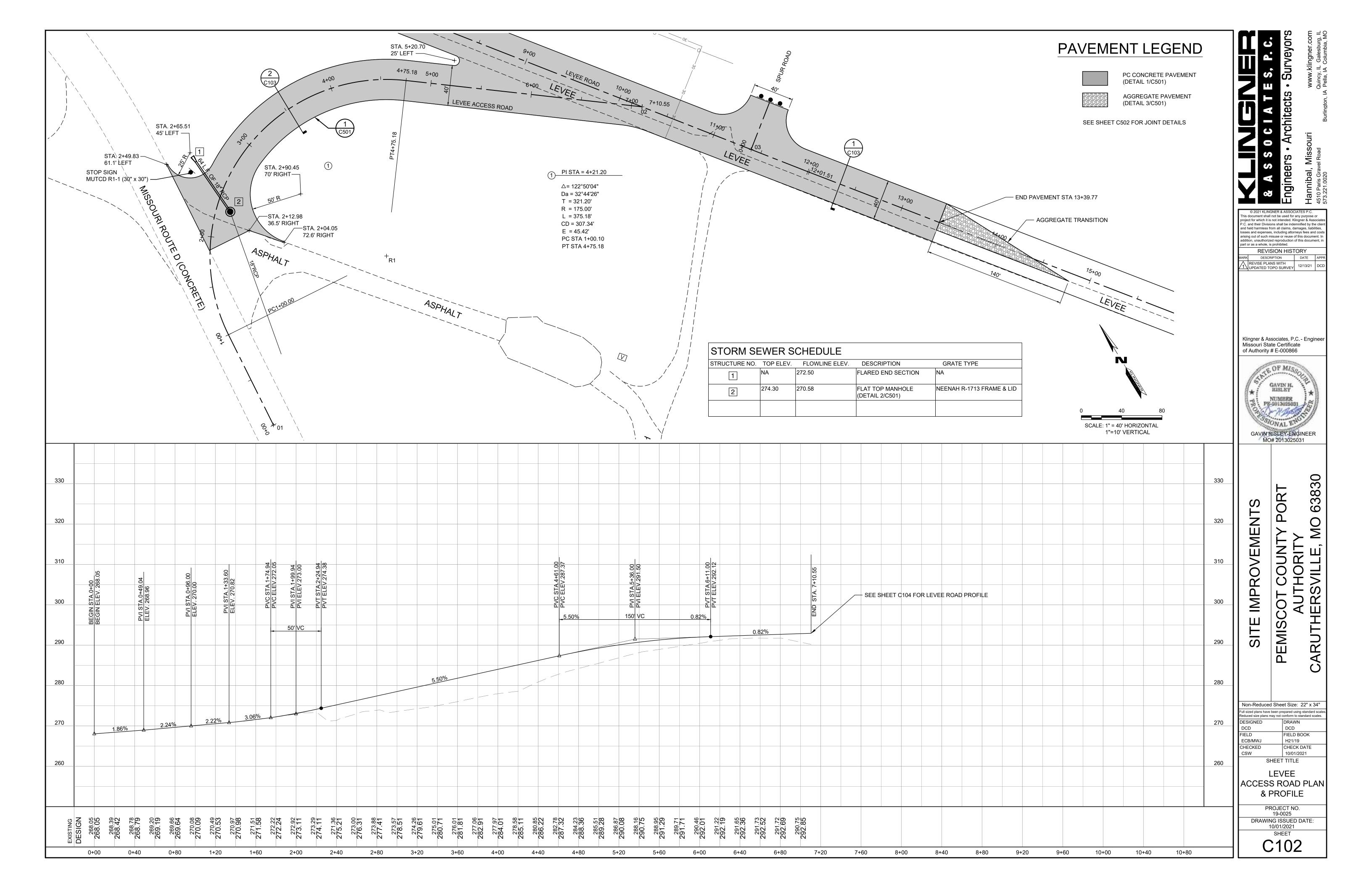
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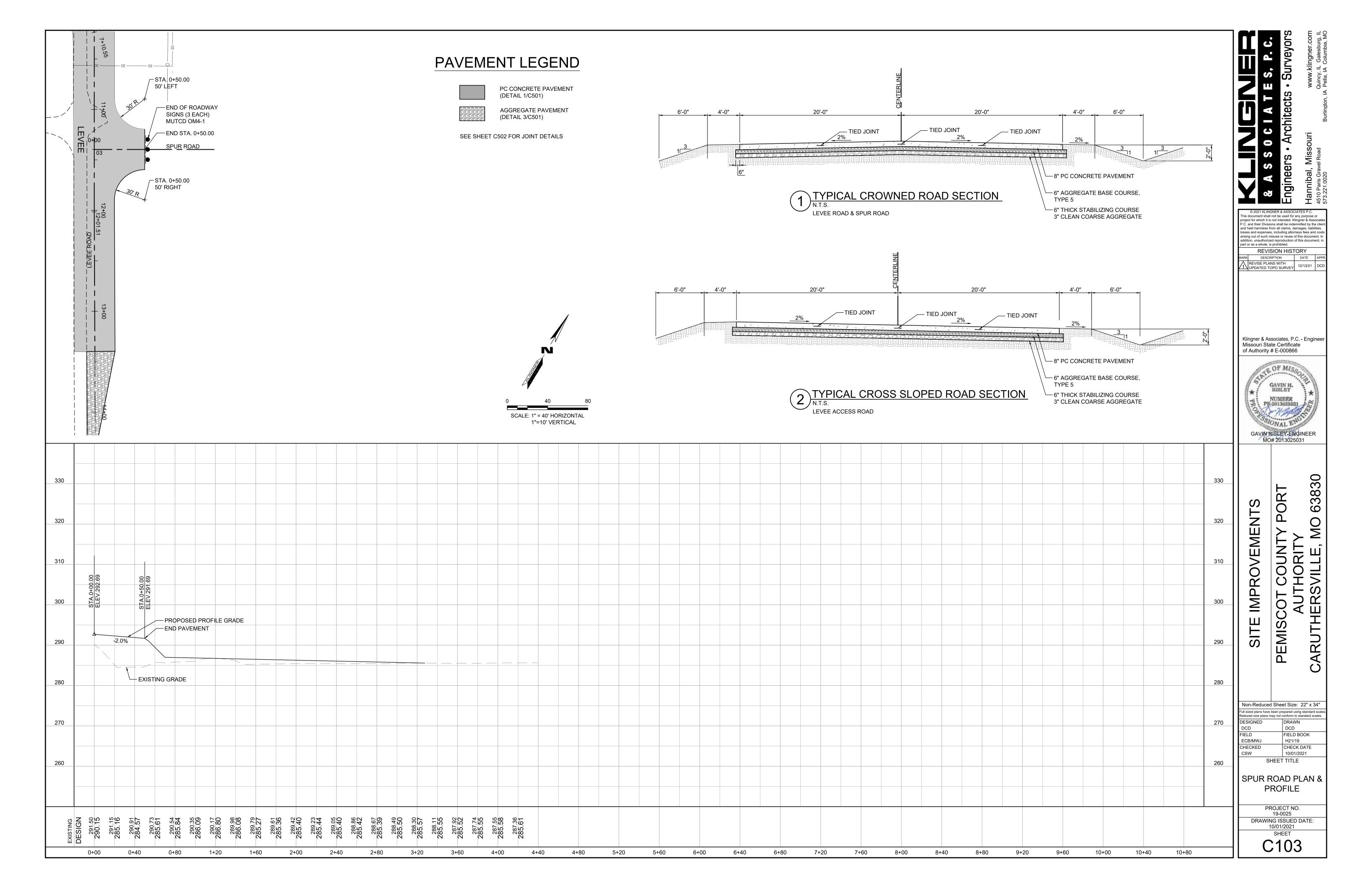
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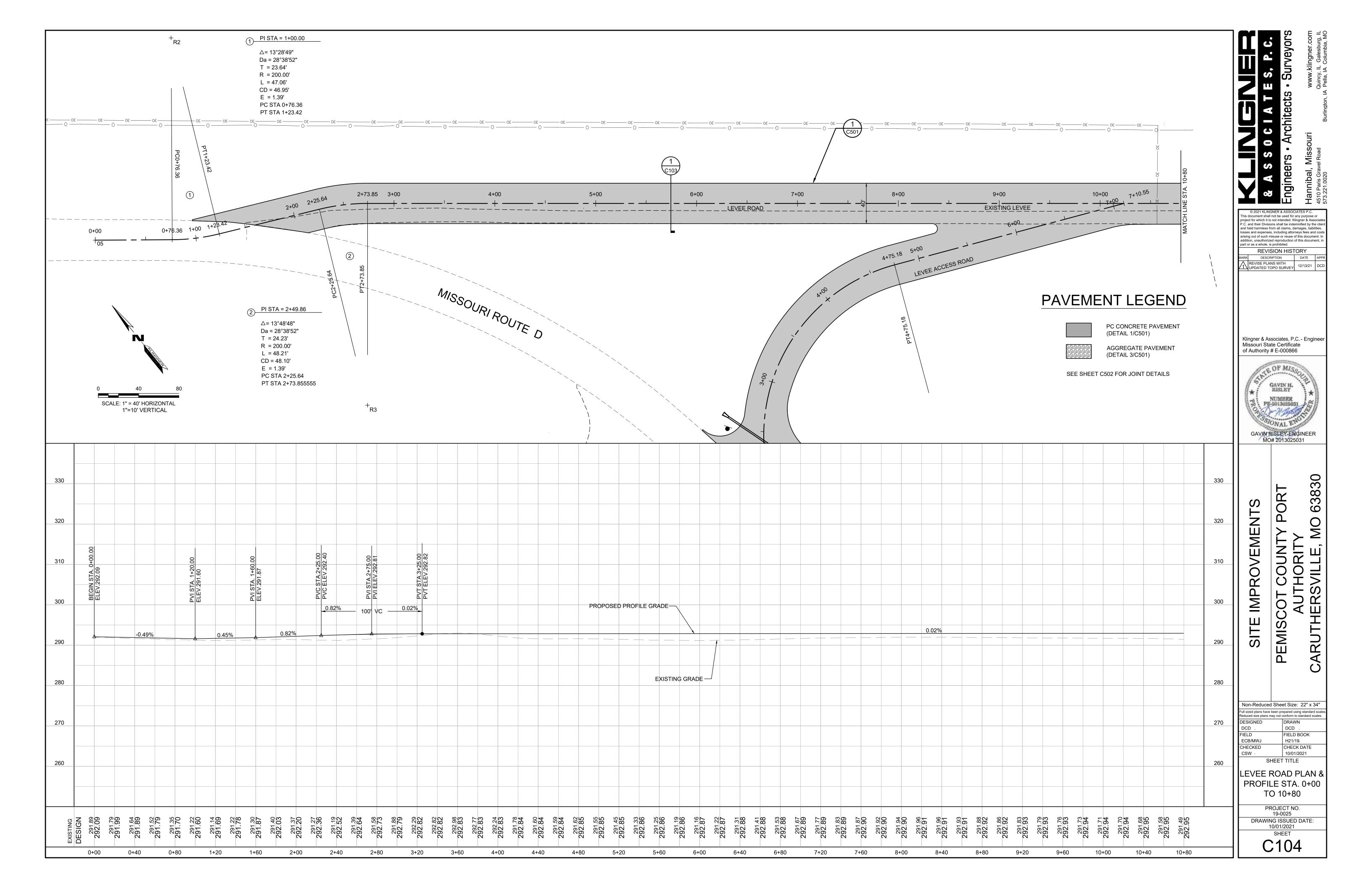
> OVERALL SITE PLAN

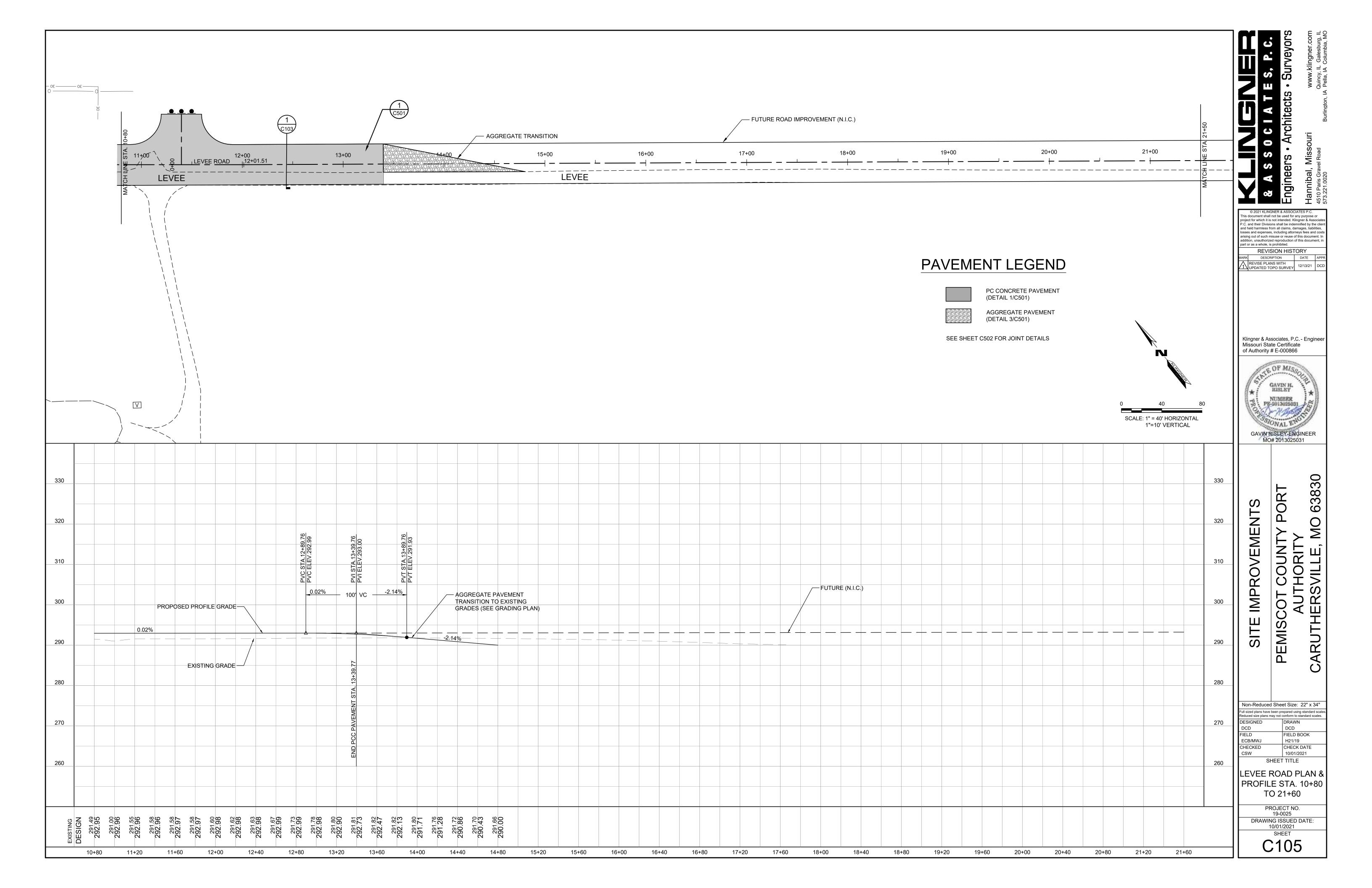
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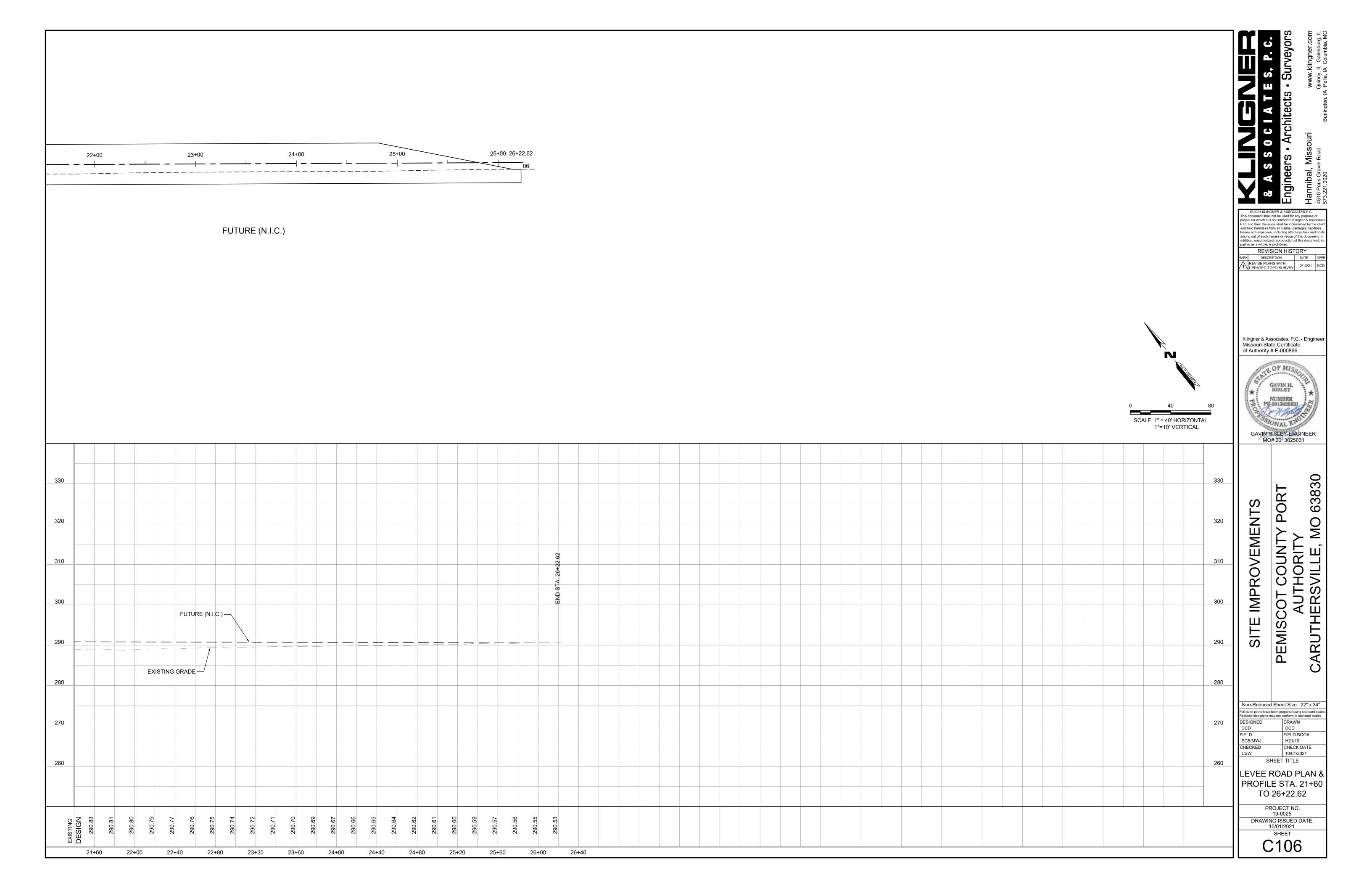
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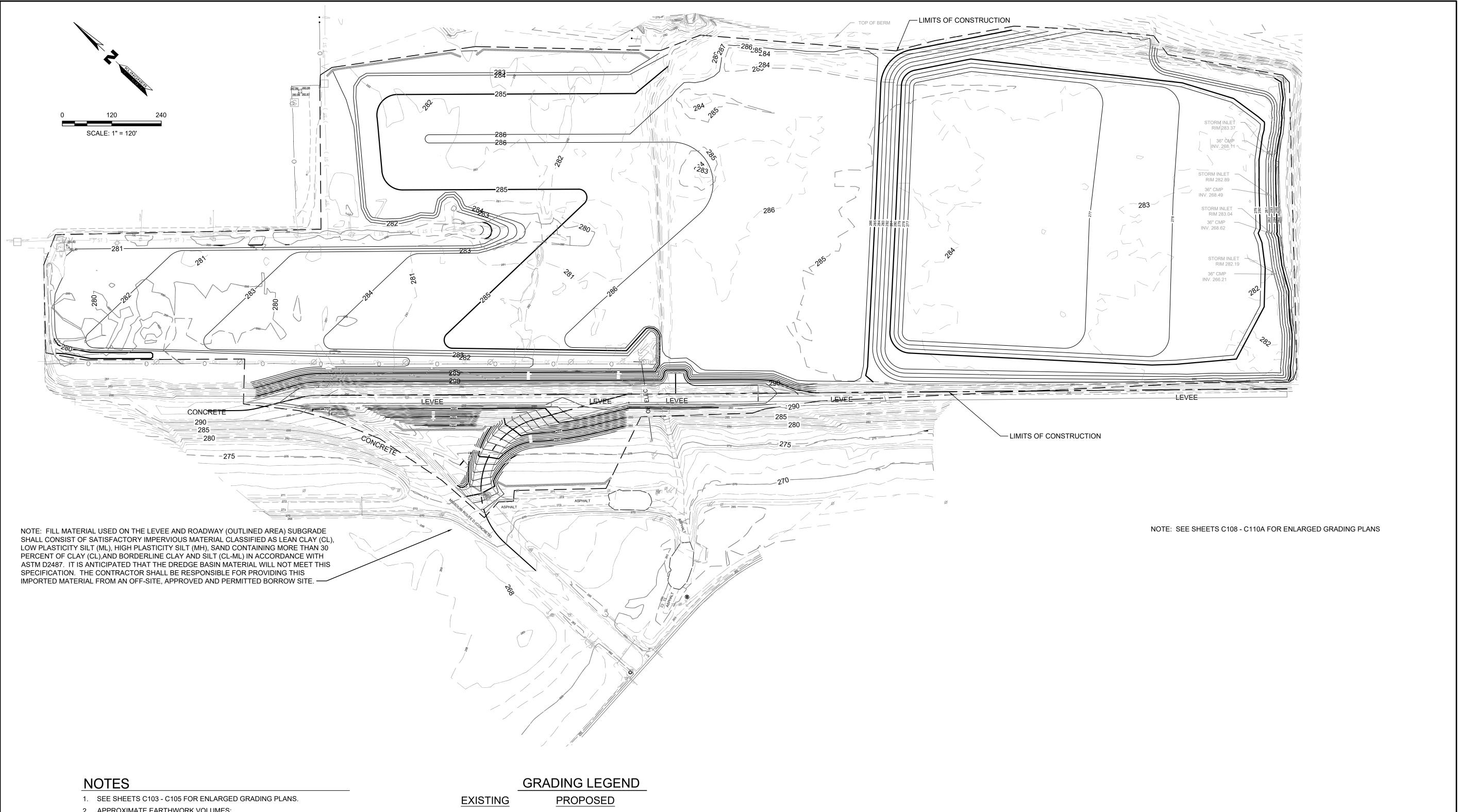












2. APPROXIMATE EARTHWORK VOLUMES:

• PROPOSED FILL SITE: TOPSOIL STRIP & REPLACE: ±13,480 C.Y. FILL ± 135,586 C.Y. (INCLUDES ROADWAY FILL)

DREDGE SITE BORROW: 135,586 (WITHOUT EXCESS FOR SHRINK)

3. CONTOURS SHOWN FOR BORROW SITE WILL RESULT IN APPROXIMATELY 148,659 C.Y. (±9% EXCESS FOR SHRINK). THE LUMP SUM BID SHALL BE TO GRADE THE SITES TO THE ELEVATIONS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BORROWING THE NECESSARY VOLUME (INCLUDING SHRINK) TO ACHIEVE THE PROPOSED ELEVATIONS. THE BORROW SITE DOES NOT HAVE TO BE EXCAVATED TO THE ELEVATIONS SHOWN IF ADEQUATE MATERIAL IS GENERATED TO ACHIEVE THE ELEVATIONS INDICATED ON THE SITES.

BENCHMARKS:

1. RAILROAD SPIKE IN POWER POLE NEAR LEVEE CROSSING IN MIDDLE OF DREDGE SITE - ELEV 282.82

EXISTING	PROPOSED	
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		INDEX CONTOURS
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×eoio	600.00	SPOT ELEVATION
		EROSION CONTROL BARRIER

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MP SITE

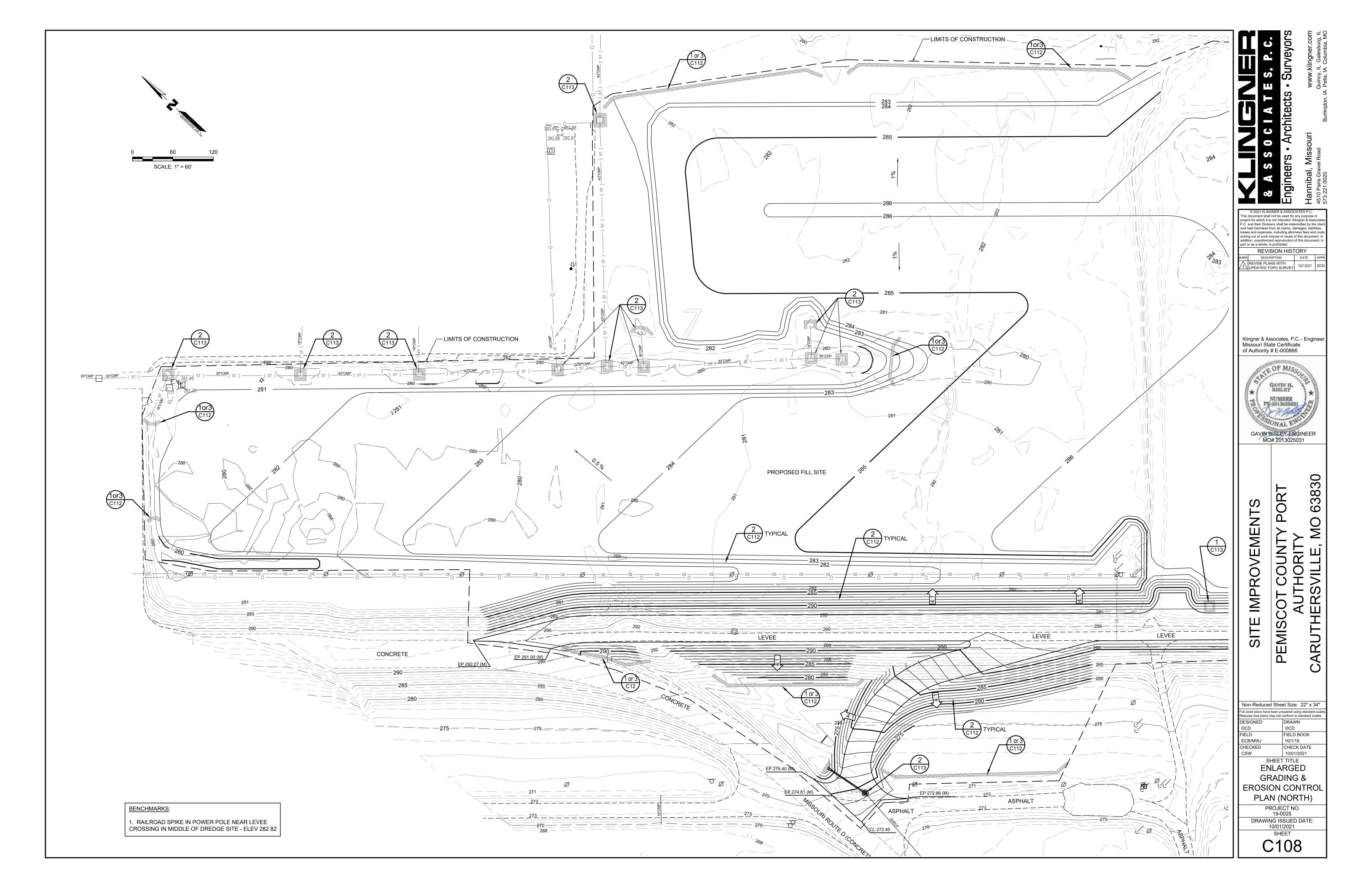
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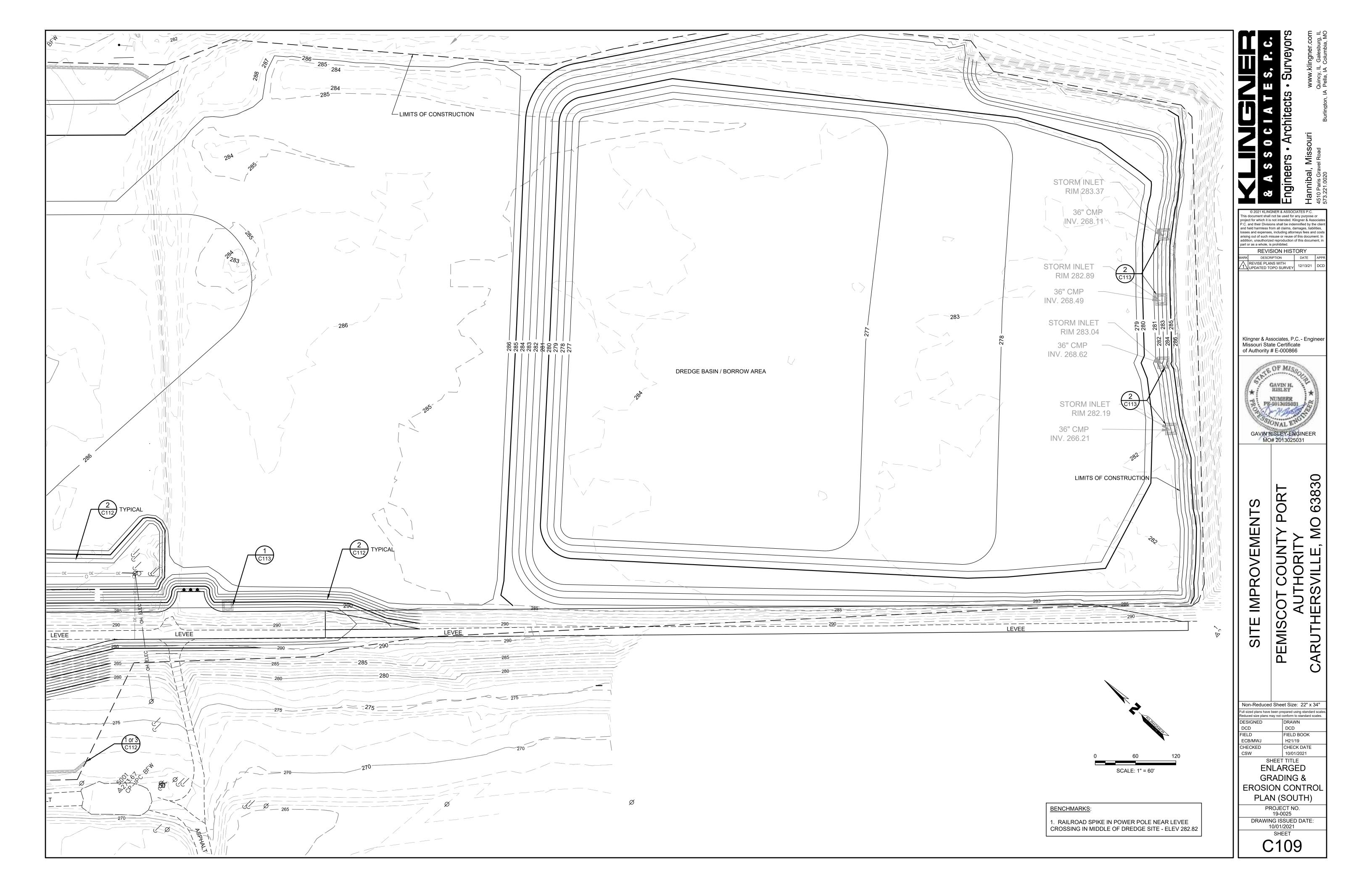
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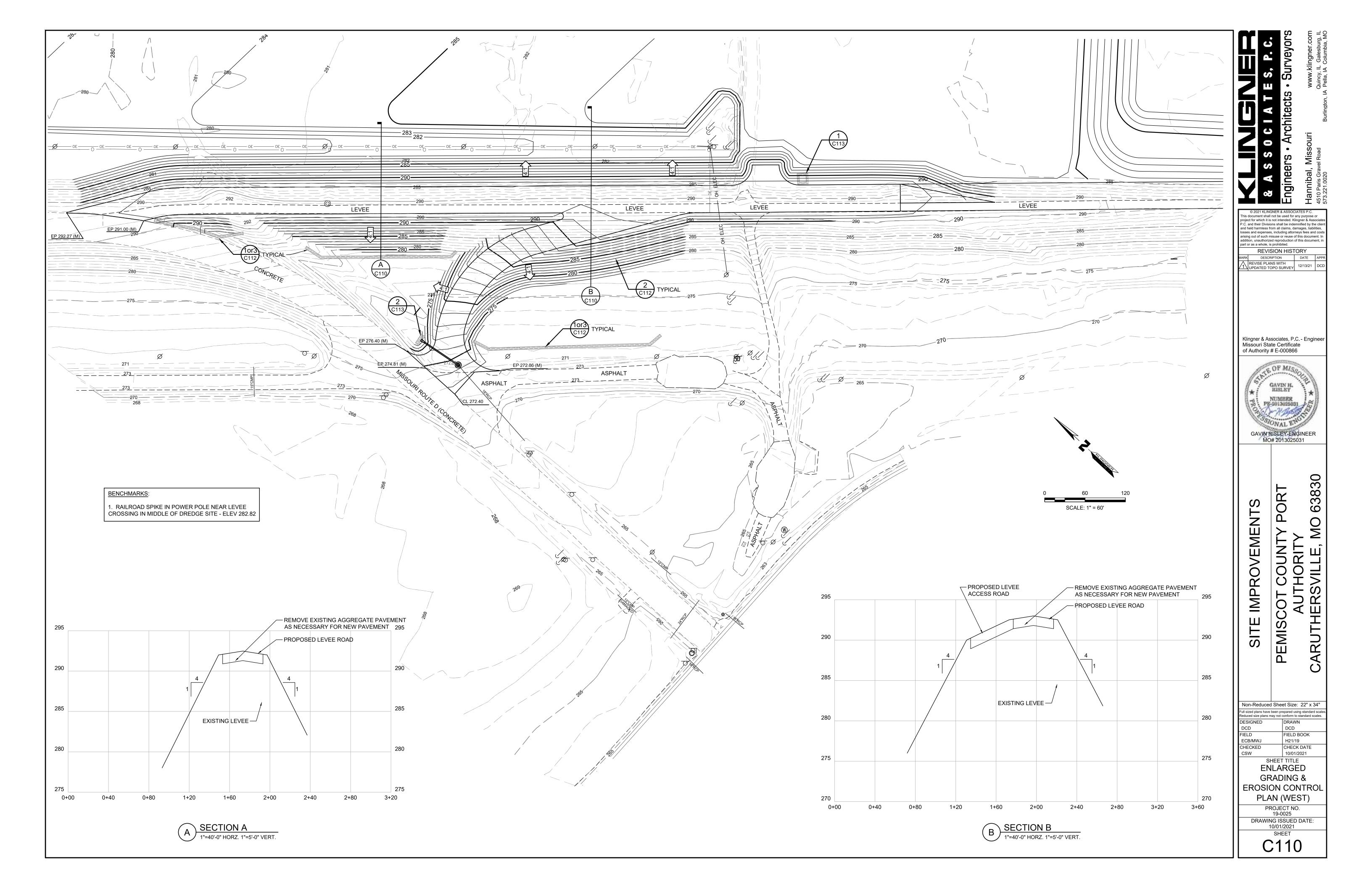
SHEET TITLE

OVERALL GRADING & EROSION CONTROL PLAN

PROJECT NO. DRAWING ISSUED DATE: 10/01/2021 SHEET







STORM WATER POLLUTION PREVENTION PLAN

CERTIFICATION STATEMENTS

This plan and certifications are a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. MO-R10A000 as issued by the Missouri Department of Natural Resources for storm water discharges from Construction Site Activities.

PROJECT INFORMATION: Site: Pemiscot County Port Authority

Location: River Mile 849

County: Pemiscot

City: Caruthersville, Missouri

PERMITTEE (OWNER) CERTIFICATION: CONTRACTOR CERTIFICATION STATEMENT certify under penalty of law that this document and all attachments were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

OWNER (PERMITTEE):	CONTRACTOR:
SIGNATURE:	SIGNATURE:
PRINT NAMÉ:	PRINT NAME:
STREET ADDRESS:	STREET ADDRESS:
City State Zip	City State Zip
TELEPHONE NUMBER:	TELEPHONE NUMBER:
FAX NUMBER:	FAX NUMBER:
DATE:	DATE:

STORM WATER POLLUTION PLAN

The following plan is established and incorporated in the project to aid the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction. Other items shall be installed by the contractor as deemed necessary, on a case-by-case situation, depending on the contractor's sequence of activities, time of year

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein. Therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. Contractor shall further determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems which are not included in this plan shall be added.

SITE DESCRIPTION.

and expected weather conditions.

- 1. The project consists of site work for earthwork and roadway construction.
- 2. Construction includes tree removal, earth excavation, embankment, sheet piling, various pavement items, and other miscellaneous items of construction.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES, WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE.

- 1. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as perimeter erosion control barriers;
- temporary ditch checks; siltation basins, temporary seeding, etc. 2. Tree removal as shown on the plans. Trees to remain will be protected against damage.
- Topsoil removal and stockpiling.
- 4. Excavation and embankment at the job site to achieve the proposed site contours.
- Pavement work.
- 6. Final grading, seeding, and other miscellaneous items.

Placement of permanent erosion control such as riprapped ditches, erosion control blanket, seeding, etc.

AREA OF CONSTRUCTION SITE:

1. The total area of the construction site is estimated to be ±73.9 acres of which ±48.7 acres will be disturbed by excavation, grading and

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. Project plan documents, specifications, hydraulic reports, and plan drawings indicate drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

- 1. The names of receiving water(s) is the Mississippi River.
- 2. Location of any sensitive areas (i.e. wetlands, habitats)

CONTROLS-EROSION CONTROLS AND SEDIMENT CONTROL:

- 1. DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION The drawings and specifications should ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation, and other appropriate measures. Stabilization measures shall be initiated immediately in
- portions of the site where construction activities have temporarily or permanently ceased, and completed in no more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased. Allowances to the seven (7) day completion period for temporary and permanent stabilization may be made due to weather and equipment malfunctions. The allowances shall be documented in the SWPPP.
- a. Areas of existing vegetation; wood and grasslands; outside the proposed construction limits shall be identified for preserving and shall be protected from construction activities.
- b. Dead, diseased, or unsuitable vegetation within the site shall be removed, along with required tree removal.

As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks, inlet and pipe protection, and perimeter erosion barrier shall be installed as called out in this plan.

- d. Bare and sparsely vegetated ground in high erodable areas shall be temporarily seeded at the beginning of construction where not construction activities are expected within seven days.
- e. Immediately after tree removal or stripping is completed, areas which are highly erodable shall be temporarily seeded when no construction activities are expected within seven days.
- f. At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks or silt fencing will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the site.

Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be completed.

2. DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

During construction, areas outside the construction limits as outlined previously herein shall be protected. The contractor shall not use this area for staging (except as described on the plans) and parking of vehicles or construction equipment, storage of materials, or other construction related activities.

- a. Within the construction limits, areas which may be susceptible to erosion, shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
- b. Earth stockpiles shall be temporarily seeded immediately if they are to remain unused for more than fourteen (14) days.
- c. As construction proceeds, the contractor shall institute the following:
- i. Place temporary erosion control facilities at locations shown on the plans.
- ii. Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
- iii. Construct ditches and provide temporary erosion control systems including ditch lining and ditch stops.
- iv. Temporarily divert water around culvert locations.
- v. Build necessary embankments at culvert locations and then excavate and place culvert.
- vi. Continue building up the embankment to the proposed grade while at the same time, placing permanent erosion control such as riprap ditch lining and conducting final shaping to the slopes.
- d. Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded immediately if no construction activity in the area is planned for 7 days.
- e. Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- f. The contractor shall inspect the project daily during construction activities. Inspection shall also be done weekly and after heavy rains.
- g. Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on
- h. The temporary erosion control systems shall be removed after use is no longer or no longer functioning.
- 3. DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING
 - i. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall
- be removed, cleaned up, and disturbed turf reseeded.

k. Permanent seeding shall occur within three (3) days of completion of final grading operations.

MAINTENANCE AFTER CONSTRUCTION

1. Construction is complete after acceptance by the Owner. Maintenance up to this date will be by the Contractor.

MISCELLANEOUS

- 1. Temporary ditch checks shall be located at every 1.5 ft. fall/rise in ditch grade.
- 2. Temporary erosion control seeding shall be applied at a rate of 100 lbs/acres
- 3. Straw bales, hay bales, perimeter erosion barrier and silt fences will not be permitted for permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, geotextile web grids and/or other equal materials.
- 4. Sediment collected during construction by the various temporary erosion control systems shall be disposed on the site on a regular basis.

INSPECTIONS.

1. The Permittee (or a representative of the permittee) shall conduct regularly scheduled inspections at least once every seven calendar days. these inspections shall be conducted by a qualified personnel, one who is responsible for environmental matters at the site, or a person directly supervised by the person responsible for environmental matters. For disturbed areas that have not been finally stabilized, all installed BMP's and other polution control measures shall be inspected for proper installation, operation and maintenance. All stormwater outfalls shall be inspected 50 feet downstream of the outfall. Any structural or maintenance problems shall be noted in an inspection report and corrected within seven calendar days of the inspection. If a rainfall causes stormwater runoff to occur on-site, the BMP's must be inspected within reasonible time period after the rainfall event has ceased. These inspections must occur within 48 hours after the rain event has ceased during a normal work day and within 72 hours if the rain event ceases during a non-work day, such as a weekend or a holiday.

ON SITE INSPI	ECTOR NAME:		
COMPANY NA	ME:		
STREET ADDR	RESS:		
City	State	_Zip	
TELEPHONE N			
FAX NUMBER:			
DATE:			

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.

- b. Based on the results of the inspection, the description of potential pollutant sources identified herein and pollution prevention measures identified herein shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken shall be made and retained as part of the plan for at least three (3) years after the date of the Letter of Termination. The report shall be signed in accordance with Requirements and Guidelines of the general permit.
- d. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
 - (i) a description of discharge and cause of noncompliance, and
- (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated the noncompliance is expected to continue m and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
- e. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or environment. Any information shall be provided orally with in 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

The report of noncompliance shall be mailed to the following address:

Missouri Department of Natural Resources St. Louis Regional Office 7545 S. Lindbergh, Suite 210 St. Louis. Missouri 63125 (314) 416-2960 (314) 416-2960 fax

Special Provision

National Pollutant Discharge Elimination System

This project will result in a disturbance of one (1) or more acres of total land area and will require compliance with the National Pollutant Discharge Elimination System (NPDES) Storm Water Permit.

The Owner is the PERMITTEE and the Contractors and Subcontractors will be required to certify that they understand and will comply with all requirements of the permit.

A storm water pollution plan shall be cooperatively developed by the PERMITTEE and contractor for this project using good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharges associated with this project and assure compliance with the terms and conditions of the Storm Water Permit.

The Owner has acquired a Land Disturbance Permit through the EPERMITTING process on the Missouri Department of Natural Resource (MoDNR) website. The Contractor shall comply with provisions of this permit. At the completion of the project stabilization the following form shall be completed and submitted to the MoDNR:

FORM H - REQUEST FOR TERMINATION OF A GENERAL PERMIT

The Contractor shall prepare a stormwater management plan which is certified by both the Owner and Contractor. The Contractor shall be responsible for posting a copy of the public notification sign on the site and Request for Termination as well as maintaining the Stormwater Management Plan and maintenance records on-site.

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MO# 2013025031

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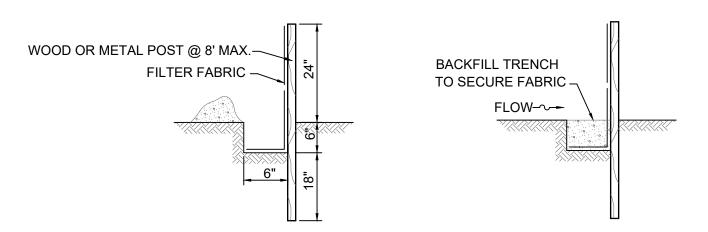
Ó MP S

Non-Reduced Sheet Size: 22" x 34 Full sized plans have been prepared using standard s Reduced size plans may not conform to standard scale DESIGNED DCD DCD FIELD FIELD BOOK ECB/MWJ H21/19 CHECKED CHECK DATE 10/01/2021 SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN

PROJECT NO. DRAWING ISSUED DATE 10/01/2021

SHEET



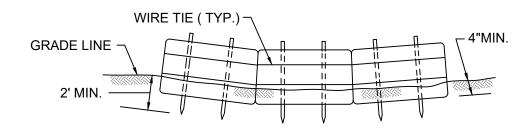
FILTER FENCE AND POST INSTALLATION

SECTION

FOR EACH STRAW BALE, DRIVE 2 NO. 5 REBARS, STEEL PICKETS, OR 2"x 2" WOODEN STAKES INTO THE GROUND. ANGLE FIRST STAKE TOWARD PREVIOUSLY PLACED BALE.

— STRAW BALE

PLAN VIEW



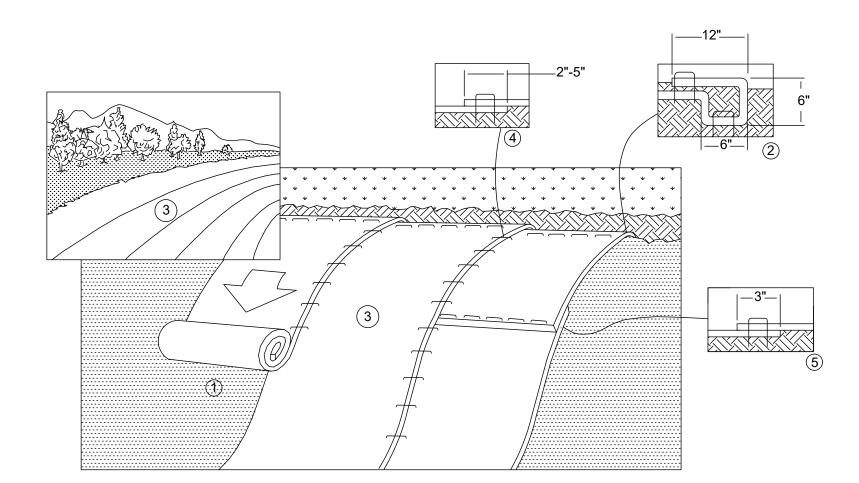
SECTION VIEW

- STRAW BALE INSTALLATION
- 1. STRAW BALES TO BE STACKED IN A SINGLE ROW & EMBEDDED IN THE SOIL TO A DEPTH OF 4 INCHES MINIMUM
- 2. ALL BALES ARE TO BE SECURELY BOUND WITH WIRE OR STRING.
- 3. LENGTH OF SEDIMENT BARRIER AS INDICATED ON THE PLANS
- 4. SCATTER LOOSE STRAW OVER THE AREA IMMEDIATELY UPSLOPE FROM SEDIMENT BARRIERS. FILL GAPS BETWEEN BALES WITH LOOSE STRAW.

 5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENT

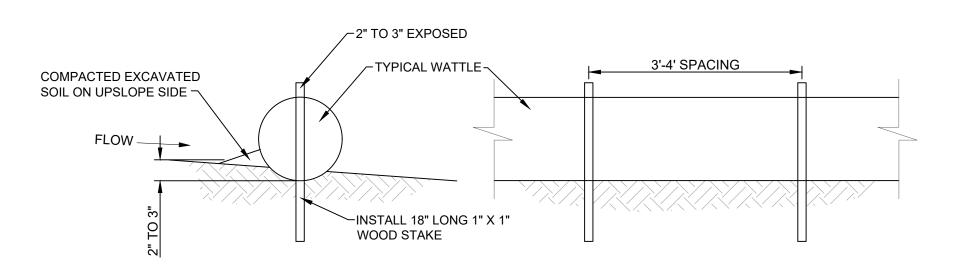
 1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENT.
- BARRIERS IN A CONDITION THAT IS SATISFACTORY TO THE CONTRACTING OFFICER UNTIL FINAL ACCEPTANCE OF WORK.





- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. SEEDING WILL BE COMPLETED BY THE OWNER, CONTRACTOR TO COORDINATE WITH OWNER TO ALLOW PROPER TIMING AND COORDINATION FOR THE SEEDING AND EROSION BLANKET INSTALLATION.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENACH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
- 3. ROLL THE RECP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROXIMATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROXIMATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" 54" OVERLAP DEPENDING ON RECP,S TYPE.
- 5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
- 6. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES 4:1 AND STEEPER.

2 EROSION CONTROL BLANKET INSTALLATION DETAILS
N.T.S.



BROSION CONTROL WATTLE CHECK
N.T.S.

& A S S O C I A T E S, P. C.

Hannibal,
2.3.4 Salty
4510 Paris Grav
573.221.0020

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SITE IMPROVEMENTS

EMISCOT COUNTY PORT

AUTHORITY

RUTHERSVILLE, MO 63830

Non-Reduced Sheet Size: 22" x 34"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

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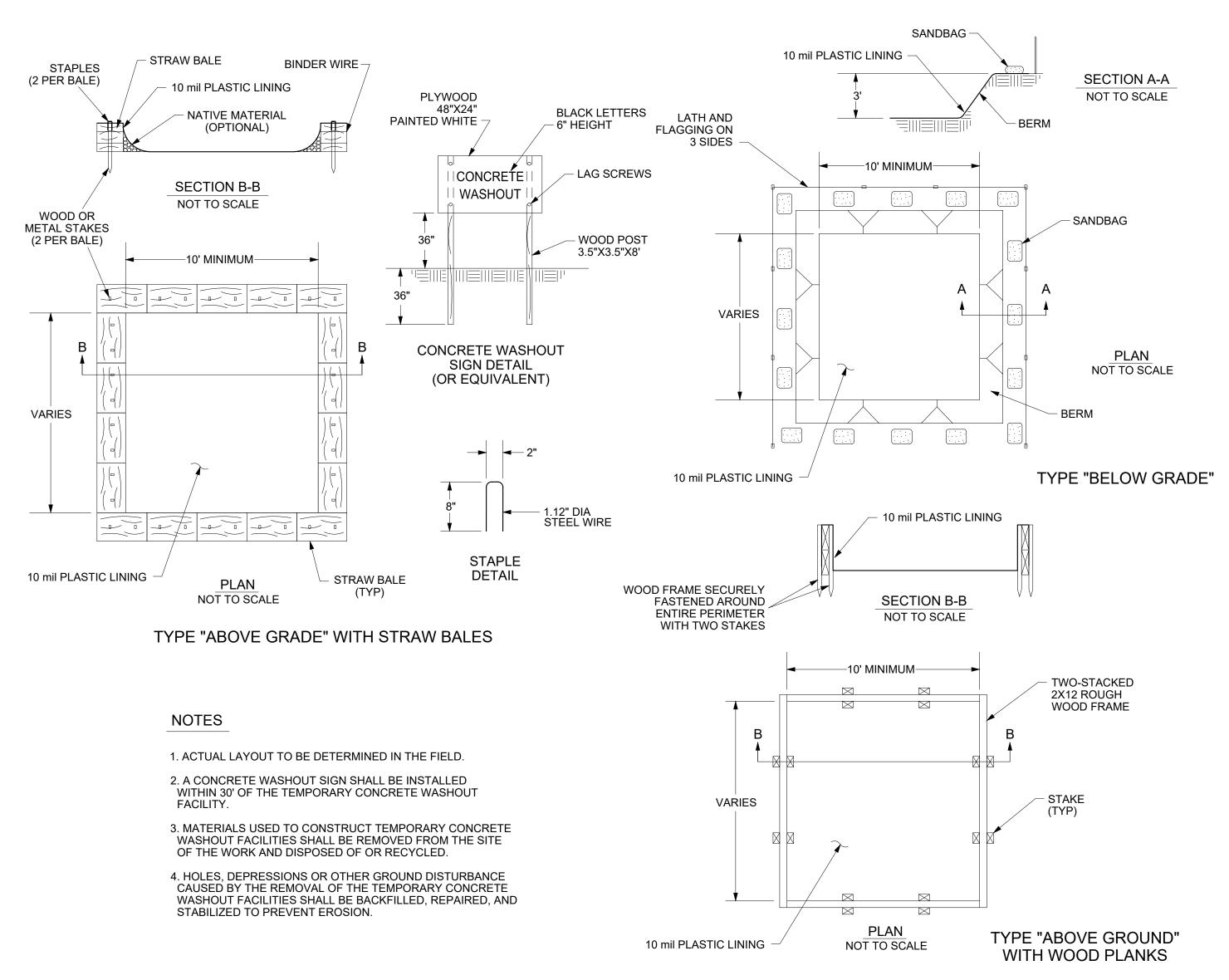
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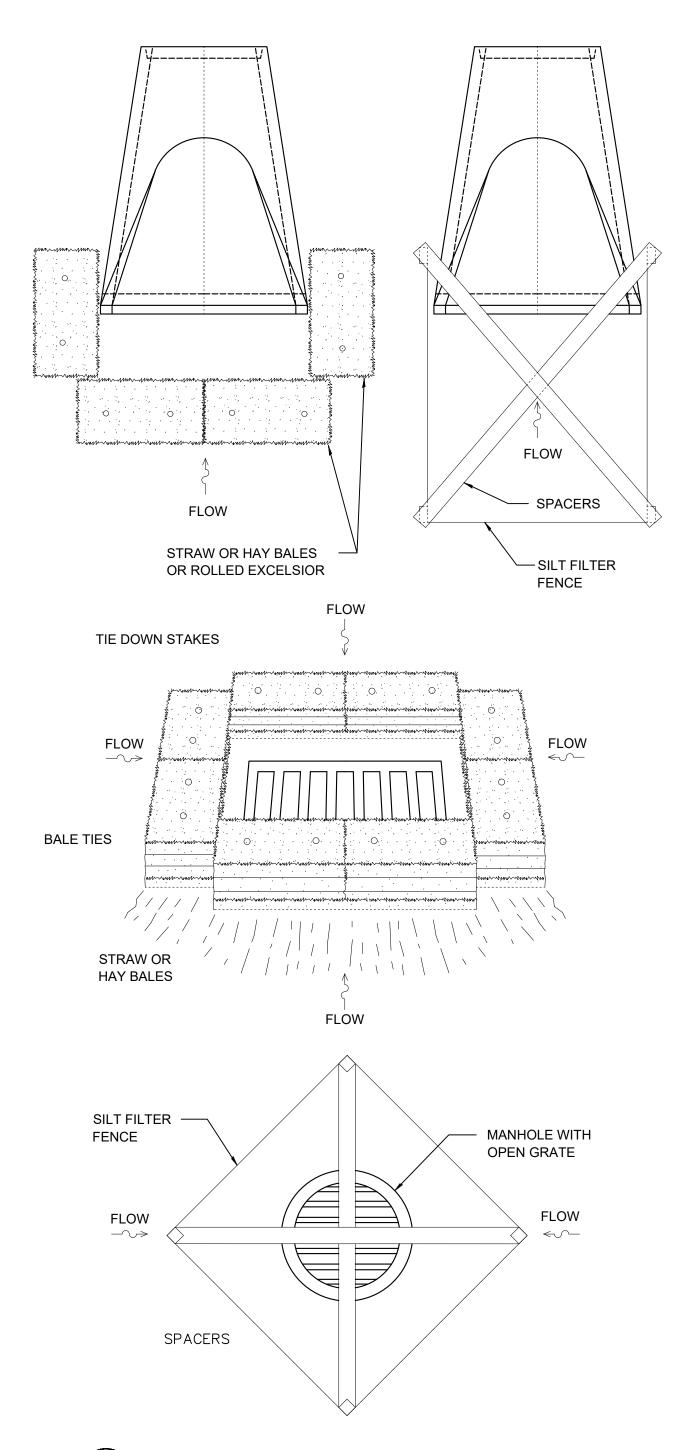
SWPPP DETAILS

SHEET TITLE

PROJECT NO. 19-0025 DRAWING ISSUED DATE: 10/01/2021



1 CONCRETE WASH OUT DETAIL



2 INLET AND PIPE PROTECTION DETAILS N.T.S.

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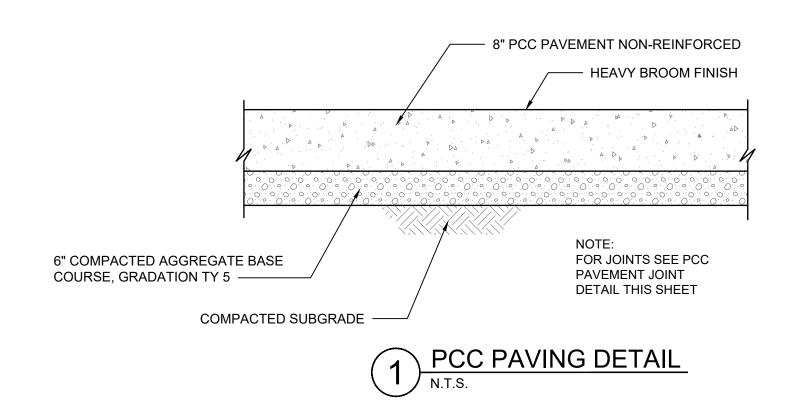
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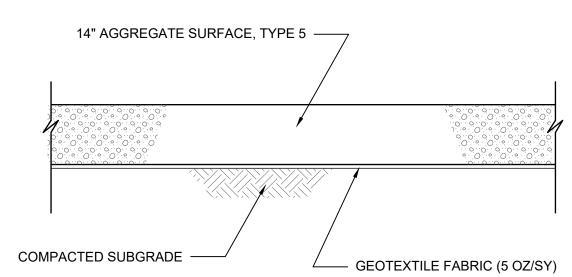
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SWPPP DETAILS

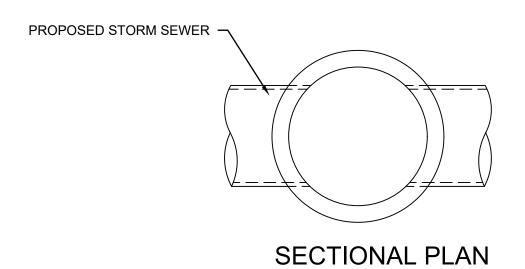
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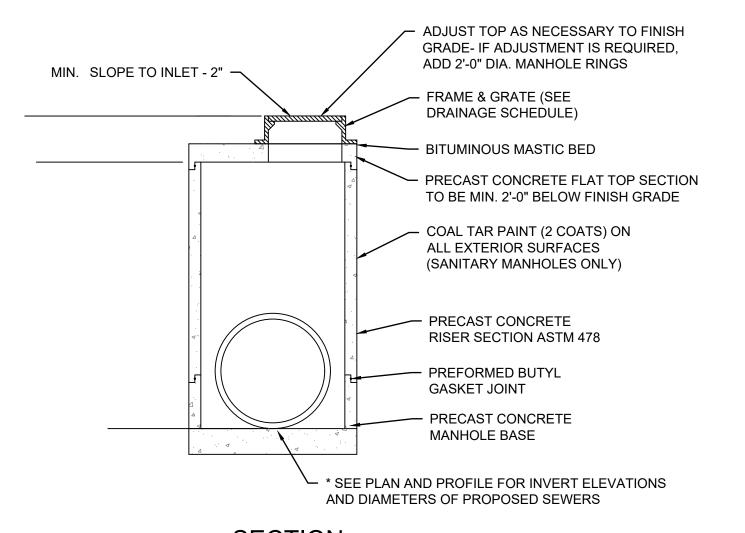
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3 AGGREGATE PAVING DETAIL N.T.S.





SECTION



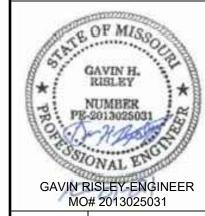
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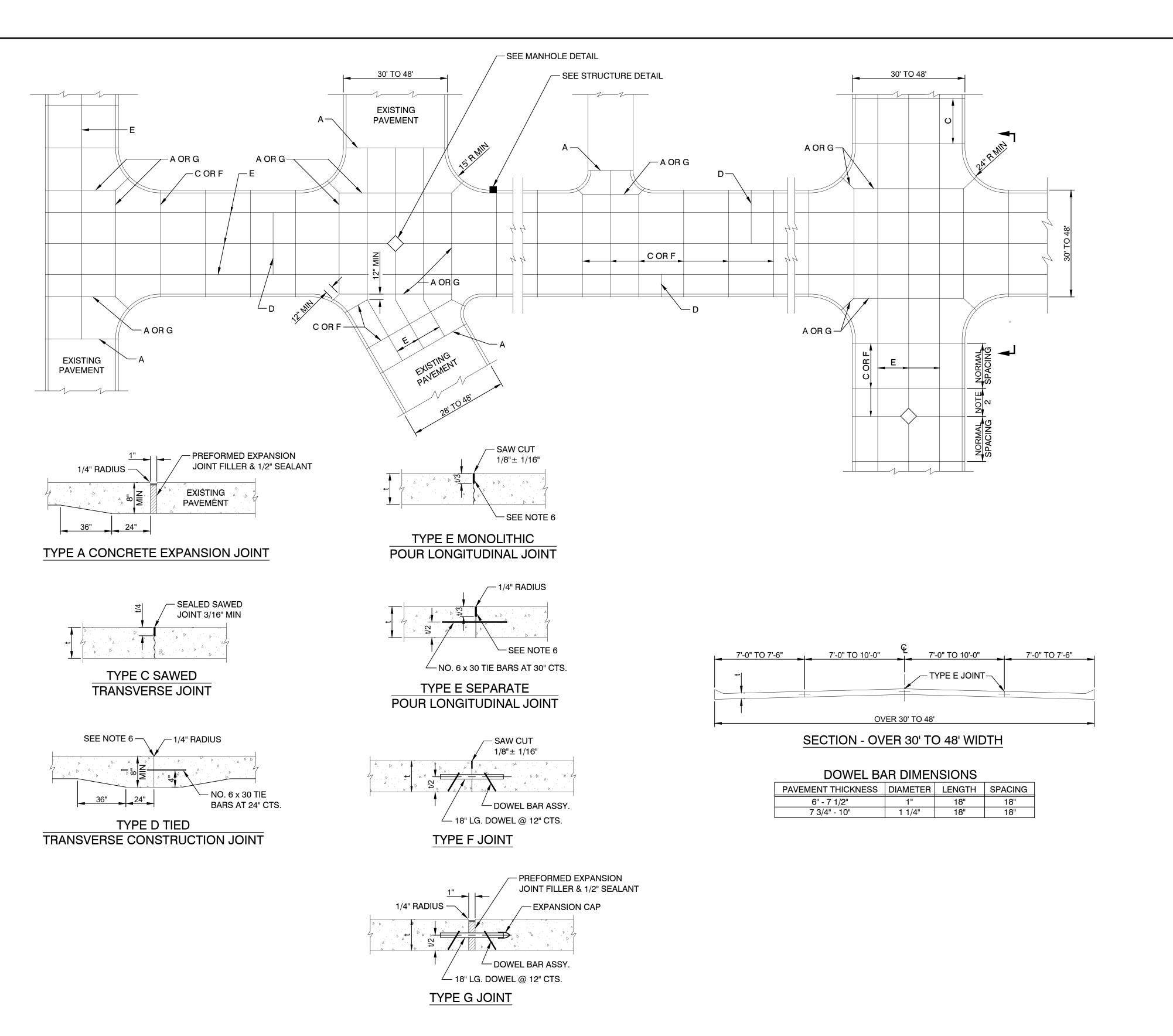
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MISCELLANEOUS SITE DETAILS

SHEET TITLE

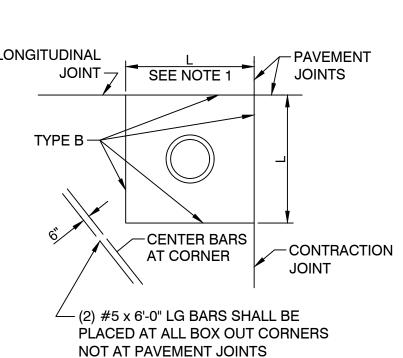
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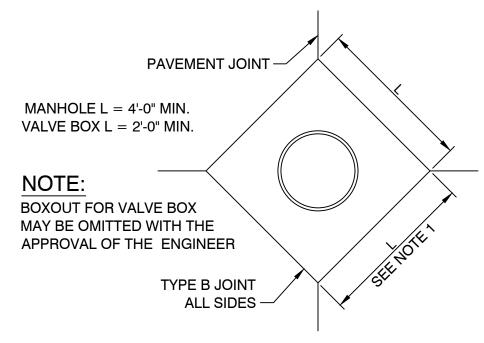
GENERAL NOTES

- 1. All inlets, manholes and other structures shall be separated from the pavement and curb by boxing out as shown in the detail. Manhole castings within the pavement limits shall be boxed in a like manner except when telescoping type castings are used.
- When a joint falls within 5 feet of or contacts basins, manholes, or other structures, shorten one or more panels either side of opening to permit joint to fall at the corners of the box out.
- 3. All transverse joints must extend through curbs and be continuous across pavement, except tied transverse construction joints. Expansion joints will be required as shown on the plans.
- 4. Joints shall be sawed to a depth of t/4 for transverse joints and t/3 for longitudinal joints. Saw joints shall be sealed, in accordance with the MODOT Standard Specifications.

Transverse joint spacing shall not exceed 15 feet.



TYPICAL UTILITY BOXOUT
JOINTS SOME CORNERS



TYPICAL UTILITY BOXOUT

JOINTS ALL CORNERS

A S S O C I A T E S, P. C.

Hannibal, Miss 4510 Paris Gravel Roac 573.221.0020

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IISCOT COUNTY PORT AUTHORITY THERSVILLE, MO 63830

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PAVEMENT DETAILS

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