ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Northwest Missouri Psychiatric Rehabilitation Center 3503 Fredrick Avenue, St. Joseph, MO 64506 PROJECT NO. M230101

Bid Opening Date: 1:30 PM, October 29, 2024 (Not Changed) Bidders are hereby informed of the following:

SPECIFICATION CHANGES:

Section 004113 - Bid Form

Section 004322 – Unit Price Form

Section 012200 Unit Prices – Unit Price items and quantities revised

Section 012300 Alternates – Quantity added.

Section 321313 Concrete Paving – Micro Fiber Added.

Section 087100 Door Hardware

- 1. Paragraph 3.3 Door Hardware Schedule
 - a. REMOVE Door Number 001 (Closets) in its entirety. (Includes Door Number, Threshold, Handle, Finish, Hinges, Lock, and Doorstop)
 - b. REVISE "Door Number 002 (Laundry) to include:
 - i. REVISE Threshold to read "new zero clearance."
 - ii. REVISE Handle to read "retain and reinstall existing."
 - iii. REMOVE "Finish and Lock"
 - c. REVISE "Door Number 003 (Bathroom Doors) to include:
 - i. REVISE Handle to read "retain and reinstall existing."
 - ii. REMOVE "Finish and Lock"

DRAWING CHANGES:

Sheets C301, C401, C501 and C901:

Site Demolition Plan C301: Two existing tall lights to be relocated. One existing light to be raised. Site Dimension Plan C401: Two existing tall lights to be relocated. One existing light to be raised. Site Grading Plan C501: Grading adjustment in central Island zone.

Detail Sheet C901: 7" Concrete Pavement Dimension and Detail-11 added.

Sheets AE-100, AE-101, AE-102, AE-103, AE-104, AE105:

a. REVISE Renovation Keynote 6 to read "New 3'-0" x 7'-0" Hollow Metal Frame and ADA Compliant transition strip. Reinstall existing door, hinge, and hardware."

BIDDER QUESTIONS AND RESPONSES:

None

GENERAL:

- 1. Please contact Paul Girouard, Contract Specialist, at 573-751-4797 or Paul.Girouard@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
- 2. The deadline for technical questions was October 22, 2024, at Noon.
- 3. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
- 4. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
- Current Plan Holders list available online at: <u>Bid Listing/ Electronic Plans (Projects</u> <u>Currently Bidding) | Office of Administration (mo.gov)</u> M2301-01-ADA Upgrades, Multiple Cottages-Northwest Mo. Psychiatric Rehabilitation Ctr.
- 6. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, 573-446-7768 to order official plans and specifications.
- 7. All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled including a bid amount for the alternates. Failure to do so will result in rejection of the bid.
- 8. MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.

ATTACHMENTS:

- 1. 004113 Bid Form
- 2. 004322 Unit Price Form
- 3. 012200 Unit Prices
- 4. 012300 Alternates
- 5. 321313 Concrete Paving
- 6. C301 Site Demolition Plan
- 7. C401 Site Dimension Plan

- C501 Site Grading Plan
 C601 Site Utility Plan
- 10. C901 Site Details
- 11. Pre-Bid Sign-in Sheet

By the Order of:

Fred L. Decker Jr., Project Manager Division of Facilities Management, Design and Construction October 24, 2024

END ADDENDUM NO. 1

PROJECT NUMBER: M230101 Addendum #1

1.0 Description

A. For changing specified quantities of work from those indicated by the contract drawings and specifications, upon written instructions of Owner, the following unit prices shall prevail. The unit prices include all labor, overhead and profit, materials, equipment, appliances, bailing, shoring, shoring removal, etc., to cover the finished work of the several kinds of work called for. Only a single unit price shall be given and it shall apply for either MORE or LESS work than that shown on the drawings and called for in the specifications or included in the Base Bid. In the event of more or less units than so indicated or included during construction the total contract price shall be decreased as appropriate or increased by contract change in accordance with General Conditions Article 4.1.

2.0 Unit Prices

- A. 7" Concrete Pavement Type I
 - 1. Method of Measurement.
 - a. The pay quantity for 7" Concrete Pavement Type I will be per square foot actually required and installed as directed by Engineer.
 - 2. Basis of Payment.
 - a. Payment for 7" Concrete Pavement Type I will be made at the contract unit price per square foot of 7" Concrete Pavement Type I required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
 - 3. Base Bid Quantity: 18,286 square feet
 - \$_____ per square foot

B. 4" Patio

- 1. Method of Measurement.
 - a. The pay quantity for 4" Patio will be per square foot actually required and installed as directed by Engineer.
- 2. Basis of Payment.
 - a. Payment for 6" Sidewalk will be made at the contract unit price per square foot of 6" Sidewalk required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
- 3. Base Bid Quantity: 9786.42 square feet
- \$_____ per square foot
- C. 6" Sidewalk
 - 1. Method of Measurement.
 - a. The pay quantity for 6" Sidewalk will be per square foot actually required and installed as directed by Engineer.

- 2. Basis of Payment.
 - a. Payment for 6" Sidewalk will be made at the contract unit price per square foot of 6" Sidewalk required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
- 3. Base Bid Quantity: 1844 square feet
- \$_____ per square foot
- D. 2' Curb and Gutter
 - 1. Method of Measurement.
 - a. The pay quantity for Curb and Gutter will be the length in lineal feet of 2' Curb and Gutter actually required and constructed regardless of type of 2' Curb and Gutter.
 - b. This quantity includes vertical curb and the patching in front of the curb is subsidiary to the curb quantity.
 - c. The quantities in the contract include the monolithic curbs along both edges of commercial drives.
 - d. The quantity for the type C curb at commercial entrance is subsidiary to the concrete commercial drive quantity.
 - 2. Basis of Payment.
 - a. Payment for 2' Curb and Gutter will be made at the contract unit price per lineal foot of 2' Curb and Gutter multiplied by the pay quantity for 2' Curb and Gutter, which shall be considered full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.
 - 3. Base Bid Quantity: 1000 lineal feet
 - \$_____ per square foot

STATE OF MISSOURI

 Bid Time: <u>1:30 PM</u>

 Bid Date: ______

 Addendum #1

SECTION 004113 - BID FORM

1.0 BID	
A. From:	(Bidder's Name)
	herein after called the " Bidder ".
В. То:	Director, Division of Facilities Management, Design and Construction Room 730, Harry S Truman State Office Building 301 West High Street Jefferson City, Missouri 65101
	herein after called the "Owner."
C. For:	Northwest MO Psychiatric Rehabilitation Center-ADA Upgrades, Multiple Cottages Northwest MO Psychiatric Rehabilitation Center St Joseph, Missouri
D. Project Number:	M2301-01
	hereinafter called the "Work."
E. Documents:	The undersigned, having examined and being familiar with the local conditions affecting the work and with the complete set of contract documents, including the Drawings, the Invitation For Bid, Instructions To Bidders, Statement of Bidders Qualifications, General Conditions, Supplement to General Conditions, and the technical specifications, including: addenda number through hereby proposes to perform the Work for the following:
F. Bid Amount:	
	Dollars (\$)
G. Allowances:	Weather Allowance: Included within the completion period for this Project Five (15)" bad weather" days. See Section 012100 for details.
H. Alternates:	Alternate No. 1: Additional Sidewalk from front of cottage to rear: 4" Concrete Sidewalk paving, (Type II), Remove/Replace, per Square Foot. 2231 SF.
	Dollars (\$)

2.0 MBE/WBE/SDVE PERCENTAGE OF PARTICIPATION PROJECT GOALS

A. This project's specific goals are: MBE 10%, WBE 10%, and SDVE 3%. NOTE: Only MBE/WBE firms certified by the State of Missouri Office of Equal Opportunity, and SDVE(s) meeting the requirements of Section 34.074, RSMo, and 1 CSR 30-5.010, as of the date of bid opening can be used to satisfy the MBE/WBE / SDVE participation goals for this project.

3.0 BID BOND

A. Accompanying the bid is: _____5% Bid Bond or ____ Cashier's Check/Bank Draft for 5% of base bid that is payable without condition to the Division of Facilities Management, Design and Construction, State of Missouri, as per Article 5 of "Instructions To Bidders".

4.0 CONTRACT COMPLETION TIME AND LIQUIDATED DAMAGES

A. The Bidder agrees to complete the work within 140 working days from the date the Notice of Intent to Award is issued as modified by additional days added by the Owner's acceptance of alternates, if applicable. This includes ten (10) working days for document mailing and processing. The Bidder further agrees to pay to, or allow the State as liquidated damages the sum of \$1,000 for each working day thereafter that the entire work is not substantially complete.

5.0 ATTACHMENTS TO BID

A.	004322	Unit Prices Form
	004336	Proposed Subcontractors
	004337	MBE/WBE/SDVE Compliance Form
	004338	MBE/WBE/SDVE Joint Venture Form
	004339	MBE/WBE/SDVE Waiver Form
	004340	SDVE Business Form
	004541	Affidavit of Work Authorization
	004545	Anti-Discrimination Against Israel Act Certification form

6.0 BIDDER'S CERTIFICATIONS

By signing and submitting this bid form, the Bidder certifies as follows:

A. No Undisclosed Interests or Associations, Collusion, or Solicitation of Other Bidders

- 1. This bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association, or corporation.
- 2. The Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham proposal.
- 3. The Bidder has not solicited or induced any person, firm or corporation to refrain from submitting a bid.
- 4. The Bidder has not sought by collusion or otherwise to obtain any advantage over any other bidder or over the Owner.

B. Accuracy of Contract Documents

The Bidder has based this bid upon an official/complete set of contract documents, either obtained from the Owner or from a secondary source known to the Bidder to have provided a complete and accurate set of contract documents. If the Bidder received the contract documents from such a secondary source, any errors or omissions in the contract documents shall be interpreted and construed in favor of the Owner and against the Bidder. This bid is based upon the conditions within Article 1.2 of the General Conditions.

C. Non-Discrimination

The Bidder will not discriminate against any employee or applicant for employment because of race, creed, color or national origin in the performance of the Work.

D. Prevailing Wage

MISSOURI PREVAILING WAGE LAW (Sections 290.210 to 290.340, RSMo): The Contractor shall pay not less than the specified hourly rate of wages, as set out in the wage order attached to and made part of the specifications for work under this contract, to all workers performing work under the contract, in accordance with sections 290.210 to 290.340, RSMo. The Contractor shall forfeit a penalty to the Owner of one hundred dollars per day (or portion of a day) for each worker that is paid less than the specified rates for any work done under the contract by the Contractor or by any subcontractor, in accordance with section 290.250, RSMo.

DAVIS-BACON ACT: If this Project is financed in whole or in part from Federal funds (as indicated in the Instructions to Bidders or other bid or contract documents for this Project), then this contract shall be subject to all applicable federal labor statutes, rules and regulations, including provisions of the Davis-Bacon Act, 40 U.S.C. §3141 et seq., and the "Federal Labor Standards Provisions," as further set forth in Section 007333 – Supplementary General Conditions for Federally Funded/Assisted Construction Projects, which is incorporated into the contract by reference. Where the Missouri Prevailing Wage Law and the Davis-Bacon Act require payment of different wages for work performed under this contract, the Contractor and all Subcontractors shall pay the greater of the wages required under either law, on a classification-by-classification basis.

E. Transient Employers

The Bidder will comply with the provisions of Sections 285.230-234, RSMo, regarding transient employers.

F. Federal Work Authorization Program

The Bidder has enrolled and is participating in, and will continue to participate in, a federal work authorization program in accordance with Sections 285.525 and 285.530, RSMo for the duration of any contract awarded because of this bid.

G. Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA)

- 1. If awarded contract for this project, the Bidder/Contractor shall only utilize personnel authorized to work in the United States in accordance with applicable federal, state, and local laws. This includes, but is not limited to, the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA) and INA Section 274A.
- 2. If found to be in violation of this requirement or any applicable laws, and if the State of Missouri has reasonable cause to believe that the Contractor has knowingly employed individuals who are not eligible to work in the United States, the state shall have the right to cancel the contract immediately without penalty or recourse and suspend or debar the contractor from doing business with the state.
- 3. The Contractor agrees to cooperate fully with any audit or investigation from federal, state, or local law enforcement agencies.

H. Anti-Discrimination Against Israel Act

1. If the awarded Contractor meets the definition of a company as defined in section 34.600, RSMo, and has ten or more employees, the Contractor shall not engage in a boycott of goods or services from the State of Israel; from companies doing business in or with Israel or authorized by, licensed by, or organized under the

laws of the State of Israel; or from persons or entities doing business in the State of Israel as defined in section 34.600, RSMo.

2. If, at any time during the life of the contract, Contractor meets the definition of a company as defined in section 34.600, RSMo, and the company's employees increases to ten or more OR the contractor's business status changes to become a company as defined in section 34.600, RSMo, and the company has ten or more employees, then the Contractor shall submit to the Division of Facilities Management, Design and Construction a completed Box C of the exhibit titled "Anti-Discrimination Against Israel Act Certification, and shall comply with the requirements of Box C.

7.0 CONTACT INFORMATION (mandatory for all bidders)

	p/General Partnership LLC Limited Partnersh	ip 🗌 Corporation 🗌 Joint Venture
Business Name:		
Address:		
Telephone:	Fax Number:	
Federal ID Number:	or Social Security Number:	
Missouri Business Charter	Number: (or provide the proper certi	ficate from the Secretary of State)
Contact Name:	Contact email:	
FOR SOLE PROPRIETO Sole Proprietor's Name (pri Today's Date:		
I, Registration of Fictitious N with my business, as provid	, being the sole proprietor/general partner of (name (and if the name of said business is other that ame with the Missouri Secretary of State in order to a ed by Section 417.200, RSMo, et seq.), do hereby sub ein provided (if a general partnership, all partners mu	n my legal name, having filed a allow me to use such name in connection omit this bid and agree to be bound unto
Signature:	Signature:	

Signature:

Signature:

FOR LIMITED LIABILITY COMPANIES ONLY

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		Member) of (full legal name of limited liabilit
		, and being duly authorized to act a
1		omit this bid on behalf of said limited liability
company and agree that said limit	ed liability company shall be bound unt	o the State of Missouri as herein provided.
	S	ignature:
FOR LIMITED PARTNERSHI PARTNERSHIPS ONLY	PS/LIMITED LIABILITY PARTNE	RSHIPS/LIMITED LIABILITY LIMITED
	today's date:St	ate(s) of organization:
General/Managing Partner's Nam	e (printed)	
I,	, being the General Partner/Managi	ng Partner of (full legal name of limited
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Limited Partnership)	, and being dul	y authorized to act as herein provided on beha
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_____today's date _____State(s) of organization: _____

FOR ASSOCIATIONS/JOINT VENTURES

If multiple business entities/individuals are bidding collectively as an association or joint venture, each business entity/individual bidding as part of the association or joint venture shall sign this bid in the above sections relevant to the form that such business entity or individual does business, and the bidder shall duplicate the necessary number of signature pages so that all members of the association or joint venture shall sign this bid. If a name is adopted for use by the association or joint venture, the association or joint venture shall file a Registration of Fictitious Name with the Missouri Secretary of State in order to use such name in connection with the association or joint venture, as provided by Section 417.200, RSMo, *et seq.*

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract including General and Supplementary Conditions and other Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for Unit Prices.

1.3 DEFINITIONS

A. Unit price is a price per unit of measurement for materials, equipment, or services, or a portion Unit price is an amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if the estimated quantities of Work required by the Contract Documents are increased or decreased. Unit Prices include all labor, materials, equipment, tools and incidentals necessary to complete the work.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, profit, and applicable taxes.
- B. The Owner reserves the right to reject the Contractor's measurement of work-in-place that involves use of established unit prices, and to have this work measured, at the Owner's expense, by an independent party acceptable to the Contractor.
- C. Schedule: A "Unit Price Schedule" is included at the end of this Section. Specification sections referenced in the Schedule contain requirements for materials described under each unit price.
- D. Quantities of units to be included in the Base Bid are indicated in Section 004322 Unit Prices.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

7" Concrete Pavement - Type I

1. Method of Measurement.

- a. The pay quantity for 7" Concrete Pavement Type I will be per square foot actually required and installed as directed by Engineer.
- 2. Basis of Payment.

- a. Payment for 7" Concrete Pavement Type I will be made at the contract unit price per square foot of 7" Concrete Pavement Type I required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
- Base Bid Quantity: 18,286 square feet

B. 4" Patio

3.

- 1. Method of Measurement.
 - a. The pay quantity for 4" Patio will be per square foot actually required and installed as directed by Engineer.
- 2. Basis of Payment.
 - a. Payment for 4" Patio will be made at the contract unit price per square foot of 4" Patio required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
- 3. Base Bid Quantity: 5862 square feet

6" Sidewalk

- 1. Method of Measurement.
 - a. The pay quantity for 6" Sidewalk will be per square foot actually required and installed as directed by Engineer.
- 2. Basis of Payment.
 - a. Payment for 6" Sidewalk will be made at the contract unit price per square foot of 6" Sidewalk required and installed, which shall be full compensation for all labor, materials, and equipment necessary to perform the described work.
- 3. Base Bid Quantity: 1844 square feet
- D. 2' Curb and Gutter
 - 1. Method of Measurement.
 - a. The pay quantity for Curb and Gutter will be the length in lineal feet of 2' Curb and Gutter actually required and constructed regardless of type of 2' Curb and Gutter.
 - b. This quantity includes vertical curb and the patching in front of the curb is subsidiary to the curb quantity.
 - c. The quantities in the contract include the monolithic curbs along both edges of commercial drives.
 - d. The quantity for the type C curb at commercial entrance is subsidiary to the concrete commercial drive quantity.
 - 2. Basis of Payment.
 - a. Payment for 2' Curb and Gutter will be made at the contract unit price per lineal foot of 2' Curb and Gutter multiplied by the pay quantity for 2' Curb and Gutter, which shall be considered full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.
 - 3. Base Bid Quantity: 1000 lineal feet

END OF SECTION 012200

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Bid Form and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements governing Alternates.

1.3 DEFINITIONS

- A. Definition: An alternate is an amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to the Base Bid amount if the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost for each alternate is the net addition to the Contract Sum to incorporate the Alternate into the Work. No other adjustments are made to the Contract Sum.
- B. No additional time will be allowed for alternate work unless the number of work days is so stated on the bid form.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent Work as necessary to completely and fully integrate the Alternate Work into the Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.
- B. Notification: The award of the Contract will indicate whether alternates have been accepted or rejected.
- C. Execute accepted alternates under the same conditions as other Work of this Contract.
- D. Schedule: A "Schedule of Alternates" is included at the end of this Section. Specification Sections referenced in the Schedule contain requirements for materials necessary to achieve the Work described under each alternate.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1 – Additional Sidewalk from front of cottage to rear. 4" Concrete Sidewalk paving, per Square Four. 2231 SF.

END OF SECTION 012300

M2301-01

Repair/Replace Pavement Infrastructure Northwest Psychiatric Rehabilitation Center

SECTION 321313 - CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Driveways.
 - 2. Roadways.
 - 3. Parking lots.
 - 4. Curbs and gutters.
 - 5. Walks.
- B. Work in public right-of-way: All work in public right-of-way shall be performed per City Standards and Specifications.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each exposed product and for each color and texture specified.
- C. Other Action Submittals:
 - 1. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - 2. Aggregates: Aggregates must be supplied from a source previously tested and certified by MoDOT as meeting "Aggregates for Concrete" requirements in Section 1005 of MoDOT Standard Specifications. Aggregate shall be sound and durable and meet ASTM C586.

1.3 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing readymixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
- B. ACI Publications: Comply with ACI 301 (ACI 301M) unless otherwise indicated.

PART 2 - PRODUCTS

2.1 STEEL REINFORCEMENT

- A. Epoxy-Coated Welded-Wire Reinforcement: ASTM A 884/A 884M, Class A, plain steel.
- B. Epoxy-Coated Reinforcing Bars: ASTM A 775/A 775M or ASTM A 934/A 934M; with ASTM A 615/A 615M, Grade 60 (Grade 420) deformed bars.

- C. Epoxy-Coated-Steel Wire: ASTM A 884/A 884M, Class A; coated, deformed.
- D. Epoxy-Coated, Joint Dowel Bars: ASTM A 775/A 775M; with ASTM A 615/A 615M, Grade 60 (Grade 420) plain-steel bars.
- E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified.

2.2 CONCRETE MATERIALS AND MIXTURES

- A. Portland cement concrete shall conform to MoDOT 501 and 1005 with the following modifications:
 - 1. All portland cement concrete shall be air entrained with $6\% (\pm 1\%)$ minimum air content.
 - 2. The use of calcium chloride is not permitted.
 - 3. The allowable slump shall be not more than 4 inches.
 - 4. The minimum 28-day compressive strength shall be 4,000-psi.
 - 5. Aggregate:
 - a. The combined maximum weight of flint and chert shall be 1% of the weight of coarse aggregate.
 - b. The maximum weight of lignite shall be 0.07% of the weight of the fine aggregate.

2.3 FIBER REINFORCEMENT

A. Synthetic Fiber: Provide fibrillated polypropylene fibers engineered and designed for use in concrete paving, complying with ASTM C 1116/C 1116M, Type III, 1/2 to 1-1/2 inches long.

Y Y Y Y Y

2.4 CURING MATERIALS

A. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

2.5 RELATED MATERIALS

A. Joint Fillers: ASTM D 1751, asphalt-saturated cellulosic fiber.

2.6 WHEEL STOPS

- A. Wheel Stops: Precast, air-entrained concrete.
 - 1. Dowels: Galvanized steel, 3/4 inch (19 mm) in diameter, 10-inch (254-mm) minimum length.
 - 2. Adhesive: As recommended by wheel stop manufacturer for application to concrete pavement.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.

- B. Remove loose material from compacted subbase surface immediately before placing concrete.
- C. Prior to concrete paving, Contractor shall prepare mockup for concrete pavement and sidewalks. Mockup to include a minimum of 100 square feet of paving. Mockup may be installed "inplace" and must demonstrate the proposed joint types, reinforcement, sealant, and saw-cutting. Prepare mockup for Owner review and approval, prior to concrete paving.

3.2 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.3 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

3.4 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, to match jointing of existing adjacent concrete paving.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch (6-mm) radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

3.5 CONCRETE PLACEMENT

- A. Moisten subbase to provide a uniform dampened condition at time concrete is placed.
- B. Comply with ACI 301 (ACI 301M) requirements for measuring, mixing, transporting, placing, and consolidating concrete.
- C. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

- D. Screed paving surface with a straightedge and strike off.
- E. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

3.6 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture.
 - 2. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating floatfinished concrete surface 1/16 to 1/8 inch (1.6 to 3 mm) deep with a stiff-bristled broom, perpendicular to line of traffic.

3.7 COLD AND HOT WEATHER CONCRETE PLACEMENT

- A. Cold Weather Concrete:
 - Unless authorized in writing by the Engineer, mixing and concreting operations shall be discontinued when the descending air temperature in the shade and away from artificial heat reaches thirty-five (35°) degrees F. Concrete operations may be resumed when the ascending air temperature in the shade and away from artificial heat reaches thirty five (35°) degrees F.
 - 2. When concrete work is authorized during cold weather, the concrete may be heated in accordance with ACI specifications. The temperature of the concrete shall be not less than sixty (60°) degrees F and not more than eighty (80°) degrees F at the time of placement in the forms.
 - 3. No concrete shall be placed on frozen subgrade. Sudden cooling of concrete shall not be permitted. Concrete exposed to frost action or freezing weather shall be removed and replaced at the Contractor's expense.
 - 4. A sufficient supply of approved blanketing material shall be provided and placed on all concrete placed between November 1 and April 1 and at other times when the ambient air temperature is expected to drop below forty (40°) degrees F. Blanketing materials shall protect the concrete and maintain a minimum temperature of forty (40°) degrees F in the concrete as measured on the surface. Concrete shall be covered for at least four days.
- B. Hot Weather Concrete:
 - 1. The provisions of this section shall apply to all concrete work, which is done when the air temperature is above eighty (80°) degrees F at the time of placement. The temperature of the concrete, when placed, shall not be high enough to cause excessive loss of slump, flash set or cold joints. Forms, reinforcing and sub-grade surfaces against which the concrete is to be placed shall be wetted down immediately before placement. In no case shall the temperature of the concrete, when placed, exceed ninety (90°) degrees F.
 - 2. When the air temperature exceeds ninety (90°) degrees F and as soon as practicable without causing damage to the surface finish, all exposed concrete shall be kept

continuously moist by means of fog sprays, wet burlap, cotton mats, or other means acceptable to the Engineer at no expense to the Owner. This cooling with water shall be in addition to the initial sealing by membrane curing compound.

3. No concrete shall be placed when the air temperature is above ninety-five (95°) degrees F.

3.8 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by curing compound.

3.9 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
 - 1. Elevation: 3/4 inch (19 mm).
 - 2. Thickness: Plus 3/8 inch (10 mm), minus 1/4 inch (6 mm).
 - 3. Surface: Gap below 10-foot- (3-m-) long, unleveled straightedge not to exceed 1/2 inch (13 mm).
 - 4. Joint Spacing: 3 inches (75 mm).
 - 5. Contraction Joint Depth: Plus 1/4 inch (6 mm), no minus.
 - 6. Joint Width: Plus 1/8 inch (3 mm), no minus.

3.10 WHEEL STOPS

- A. Install wheel stops in bed of adhesive applied as recommended by manufacturer.
- B. Securely attach wheel stops to paving with not less than two [galvanized-]steel dowels located at one-quarter to one-third points. Install dowels in drilled holes in the paving and bond dowels to wheel stop. Recess head of dowel beneath top of wheel stop.

3.11 REPAIRS AND PROTECTION

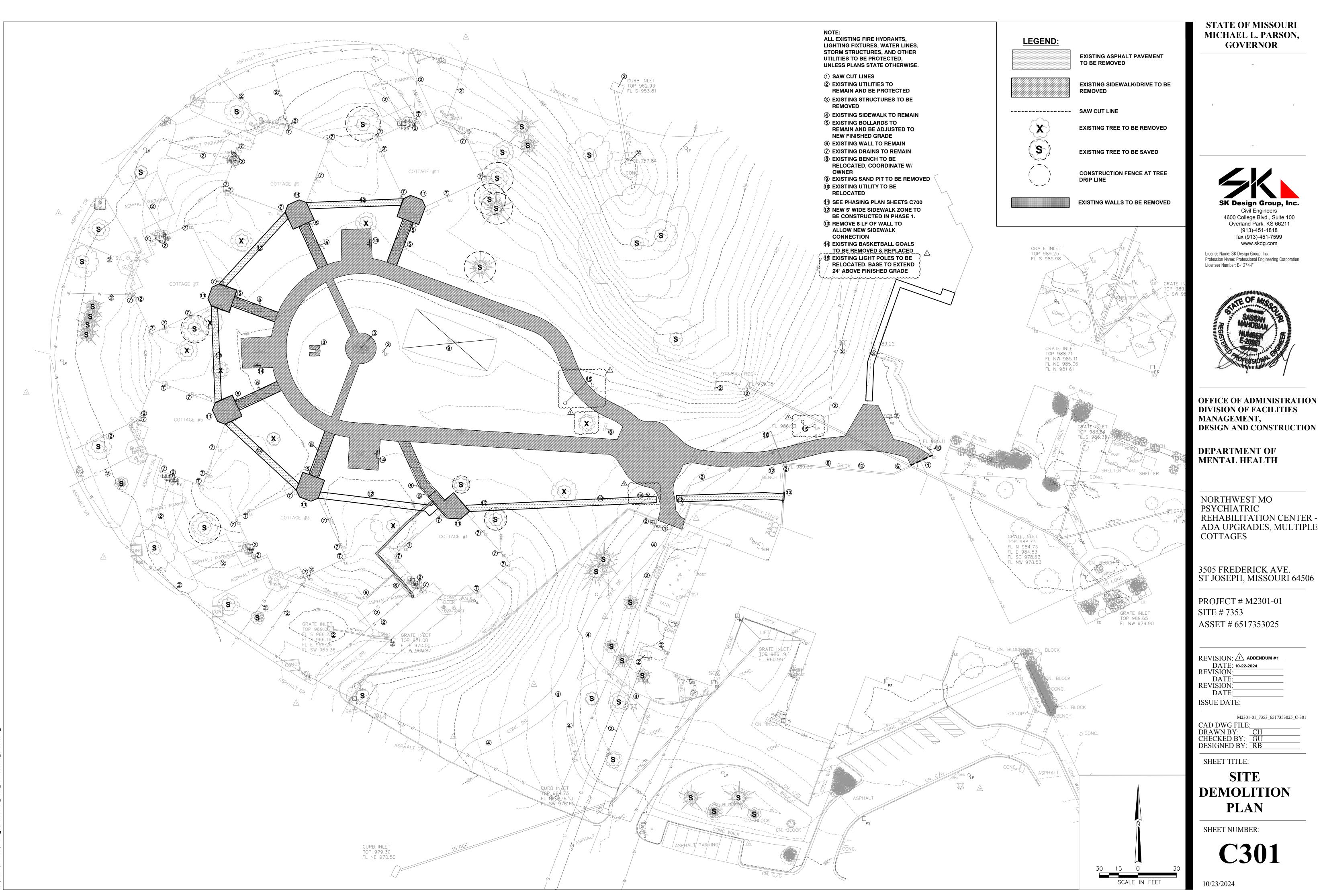
- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Design Professional.
- B. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.

C. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

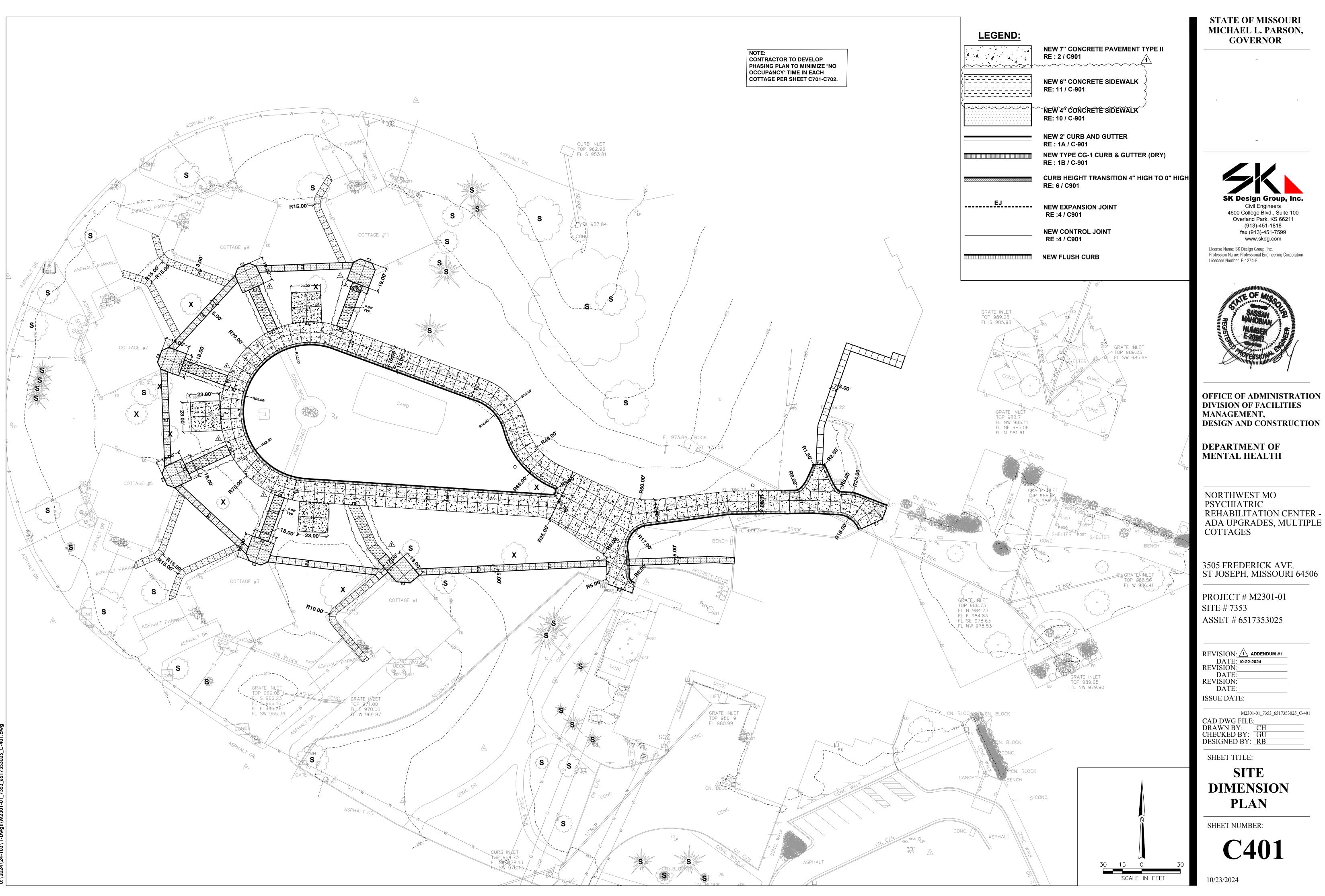
3.12 FIELD QUALITY CONTROL

- A. Delivery Tickets: For each load delivered, submit 3 copies indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, and design slump at time of batching.
- B. Tests: Owner will retain the services of an engineering inspection and testing firm. Contractor will be responsible for coordinating and scheduling inspection. Tests will include the following: strength, air entrainment, temperature, and slump tests. Test results will be specified to be sent directly to the Contractor, Engineer and Owner's representative.
 - 1. Testing agency shall perform sampling and testing of concrete specified in ACI 301 Sections 16.3, 16.4, and as follows:
 - a. Test data from concrete cylinder breaks will be evaluated using procedures of the American Concrete Institute (latest edition of ACI 214) to determine if the compressive strength of the concrete tested is acceptable.
 - b. Concrete will be tested at the minimum rate of one test for the first 25 cubic yards [CY] placed each day, and one test for each additional 50 CY placed. Concrete may be tested more often at the discretion of the Owner's Representative.
 - 1) One additional set of test cylinders will be taken during cold weather, and as directed by Engineer, cured at Project Site under same conditions as concrete it represents.
 - c. Slump, ASTM C143: 1 per each set of compressive cylinders.
 - d. Air content, ASTM C173: 1 per every 50 cubic yards, or portion thereof.
 - e. Unit weight, ASTM C138: 1 per every 50 cubic yards, or portion thereof.
 - f. Concrete temperature, ASTM C1064: 1 measurement for every slump test.
 - g. Casting of compressive cylinders, ASTM C39: 1 set of 4 cylinders for every 50 cubic yards, or portion thereof.
 - h. Concrete delivery: Check batch ticket from every truck.
- C. Batch plant inspection: Random basis as determined by Engineer.

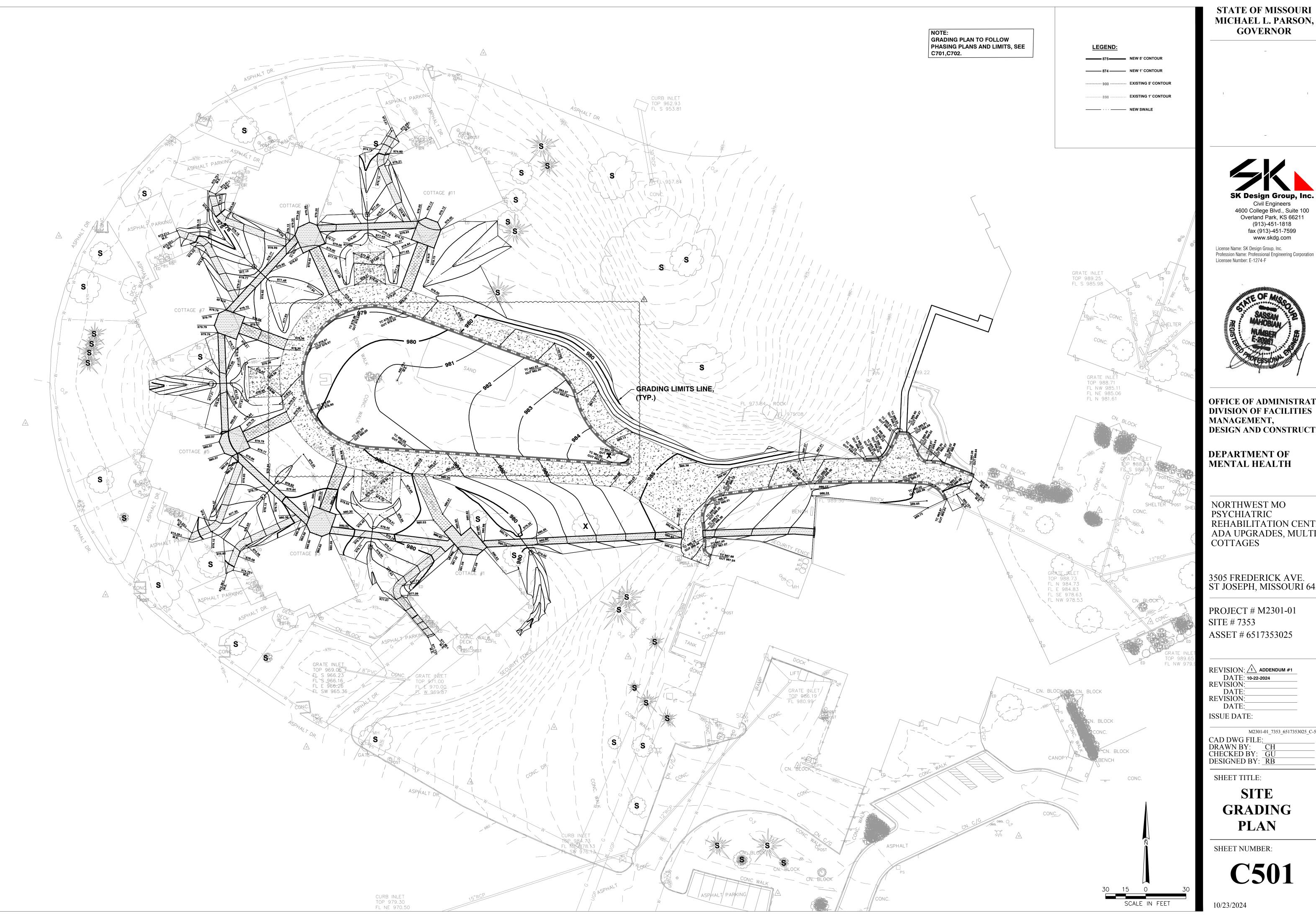
END OF SECTION 321313



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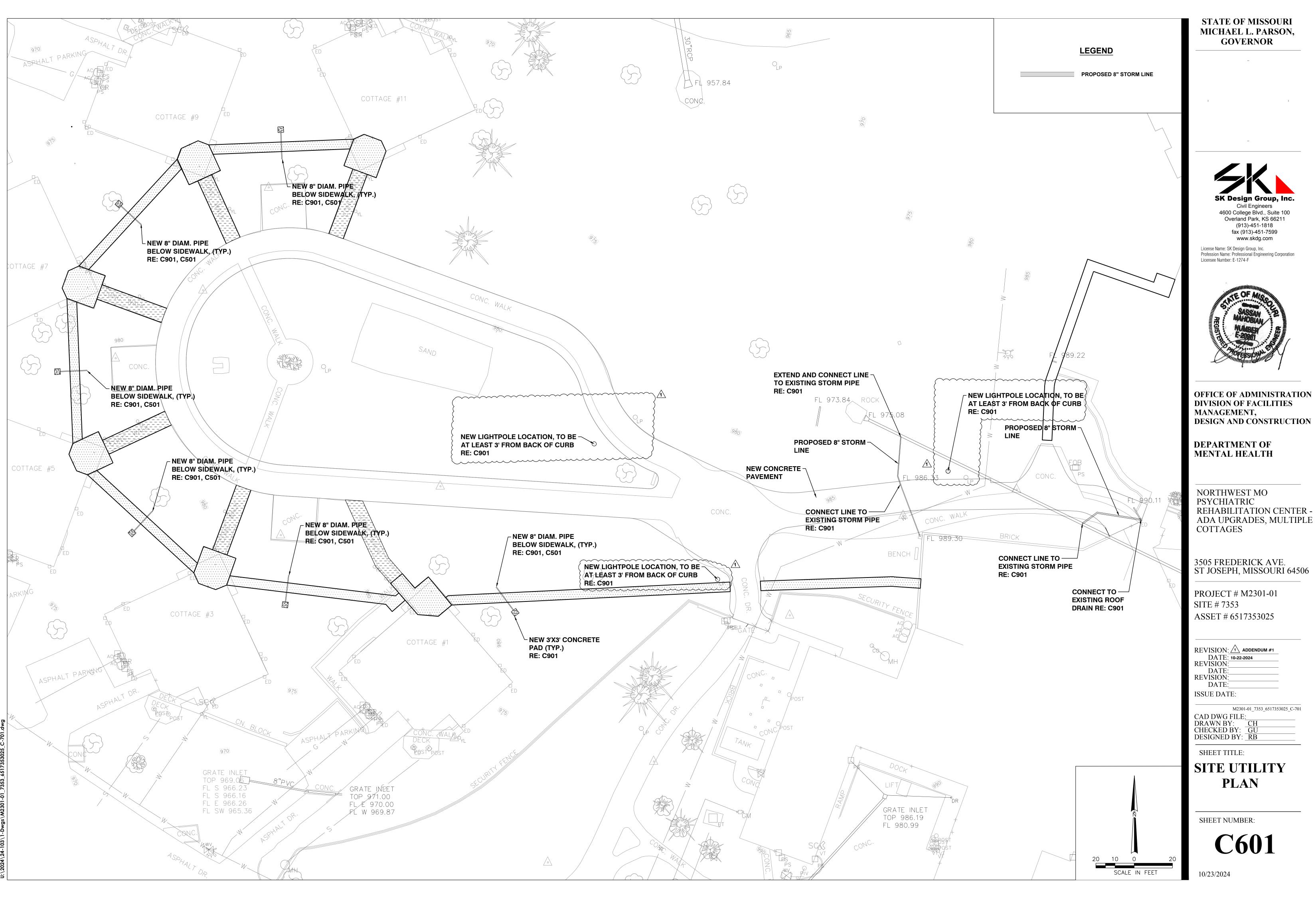
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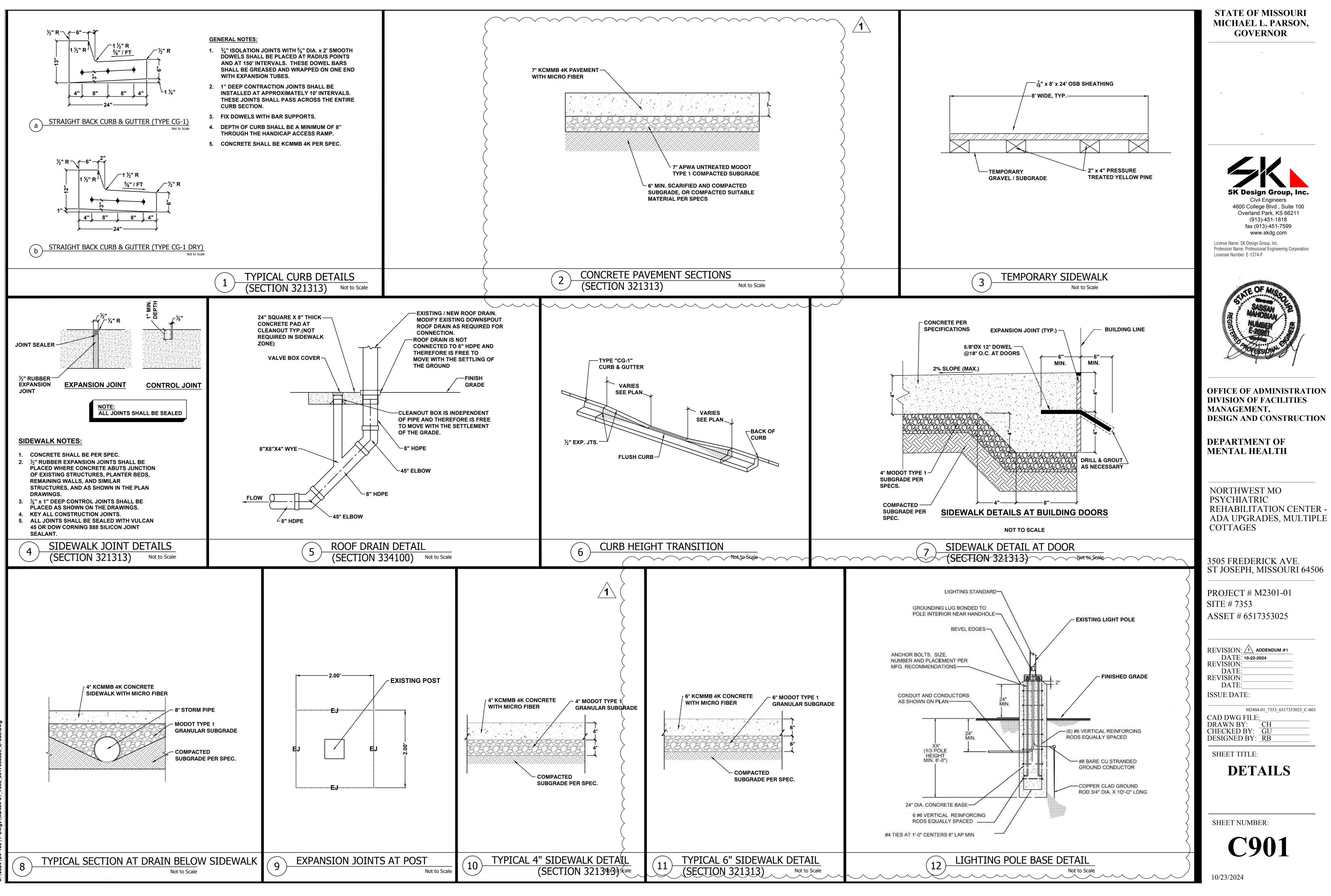
SHEET TITLE:

SITE GRADING PLAN

SHEET NUMBER:

C501





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Pre-Bid Meeting Attendance Sheet ADA Upgrades, Multiple Cottages Northwest Missouri Psychiatric Rehabilitation Ctr. St. Joseph, Missouri

Project No. M2301-01 October 16, 2024, 11:00AM

Name & Title	Company Name & Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee & E-Mail Address of Individual filling out Bid Documents
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Pre-Bid Meeting Attendance Sheet ADA Upgrades, Multiple Cottages Northwest Missouri Psychiatric Rehabilitation Ctr. St. Joseph, Missouri

Project No. M2301-01 October 16, 2024, 11:00AM

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Clafton Coulson Estimator	Waldinger	3	816-248-8927	dayton, coulson Qwaldinger.com

Pre-Bid Meeting Attendance Sheet ADA Upgrades, Multiple Cottages Northwest Missouri Psychiatric Rehabilitation Ctr. St. Joseph, Missouri

Project No. M2301-01 October 16, 2024, 11:00AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
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Almanda Christian Maint. Supervisor	OA / FMDC		573-298-1758	Amanda, Christian Qoa. mo. yor
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