



KANSAS CITY KANSAS PUBLIC SCHOOLS / USD 500

PURCHASING OFFICE | 2010 N. 59TH STREET | ROOM 370 \ KANSAS CITY, KS 66104

WEB SITE: WWW.KCKPS.ORG

RETAINING DEMOLITION AND REPLACEMENT OF RETAINING WALL FAIRFAX LEARNING CENTER

BID NO:	IFB 21-002	ISSUE DATE:	FEBRUARY 12, 2021
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Kansas City Kansas Public Schools will receive sealed bids, on this form at the Purchasing Office, 2010 N. 59th Street, Room 370, Kansas City, KS 66104 until **1:30 PM., March 2, 2021**, at which time bids received will be publicly opened and read via Zoom conference, all in accordance with bid instructions, specifications and/or bid conditions attached hereto or as shown below.

Contact/Technical Contact:

Wayne C. Correll, Director of Purchasing | (913) 279-2270 | email: wayne.correll@kckps.org

BID INSTRUCTIONS:

FAXED BIDS WILL NOT BE ACCEPTED / EMAILED BIDS WILL NOT BE ACCEPTED.

Per attached specifications listed in this invitation to bid. Bidders must specify unit price on services/rates/deliverables on the Bid Form or bid may be determined to be non-responsive.

Kansas City Kansas Public Schools is temporarily accepting bids via email. No Faxed Bids will be accepted.

Until further notice, the Purchasing Office of the Kansas City Kansas Public Schools is closed to the public as a result of the COVID-19 crisis. All public bid openings will be conducted via video conference call.

During this time all bids are to be submitted via UPS, FedEx or emailed to wayne.correll@kckps.org. All bids submitted must be received by the Purchasing Office by the specific bid closing date and time of 2:00PM Central Time. If emailed, it is the responsibility of the 'bidder' to ensure the bid date and time is met. FedEx and UPS currently deliver directly to the Central Office of the Kansas City Kansas Public Schools. Bids are not considered received until they are date and time stamped in the Purchasing Office. The Purchasing Office will not be responsible for late deliveries.

For questions regarding confirmation that your bid has been received by the Purchasing Office, please email Wayne Correll at wayne.correll@kckps.org.

The Public Bid Opening for this solicitation shall be opened in public via Zoom Video Conference Call at the hour stated in the notice at the below number:

KCKPS Purchasing Department is inviting you to a scheduled Zoom meeting

Topic: IFB 21-002 - Bid Opening

Time: Mar 2, 2021 01:30 PM Central Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/86430062033?pwd=R2lrbc8wQnRsNWg5TTBhdnlLWTR3Zz09>

Meeting ID: 864 3006 2033

Passcode: 096089

One tap mobile

+1 3462487799,,86430062033# US (Houston)

+1 6699006833,,86430062033# US (San Jose)

Dial by your location

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

+1 301 715 8592 US (Washington DC)

Meeting ID: 864 3006 2033

Find your local number: <https://us02web.zoom.us/j/kc34QhIMCh>

A bid tabulation will be provided in response to an emailed request to wayne.correll@kckps.org.

Per attached specifications listed in this invitation to bid. Bidders must specify unit price on services/rates/deliverables on the Bid Form or bid may be determined to be non-responsive.

- Pricing shall be FOB Kansas City, KS (All freight and fuel charges must be included in the bid price).
- Award will be to ONE Contractor.
- The District reserves the right to reject any or all bids, to waive any informalities, irregularities or technical defects in bids, and unless otherwise specified by the District to accept any item or groups of items in the bid, as may be in the best interest of the District.
- Time (days, weeks, etc.) required for delivery is a significant consideration with respect to this award process. The time required for delivery must be indicated in the space provided or your bid may be found non-responsive and may not be considered.
- Bid shall include copies of pertinent warranty information pertaining to the product or service offered. The bidder agrees that equipment furnished under any resultant purchase order issued by Kansas City Kansas Public Schools and Engineering Diagnostics, LLC shall be covered by commercial warranties the contractor gives to any customer for such supplies. All warranty information and certificates shall be furnished and become the property of the District upon delivery and acceptance of said items and/or the contractor must honor services and all rights and remedies stated in the warranties.
- All items are new manufacture unless otherwise specifically stated in this bid.

- All products must have passed the first line quality standard as set by the manufacturer and no seconds, blemished articles or items having defective workmanship are included.
- Bid may not be considered if a service charge, minimum dollar or minimum quantity order is applied.
- The outcome of this bid will be posted on the District's Purchasing site www.kckps.org/purchasing under Awards Section and will include a bid tabulation/summary.
- Bidder shall acknowledge all addenda for this bid and include the form acknowledgements with their bid.

INCLEMENT WEATHER OR EMERGENCY

IF THERE IS A BUILDING CLOSING THE DAY OF THE OPENING OF PROPOSALS DUE TO INCLEMENT WEATHER OR AN EMERGENCY, THE OPENING OF PROPOSALS WILL OCCUR AT 2:00PM (CENTRAL) THE NEXT BUSINESS DAY THE DISTRICT IS OPEN.

See Attachment A for Additional Terms & Conditions

RETAINING DEMOLITION AND REPLACEMENT OF RETAINING WALL FAIRFAX LEARNING CENTER

The Kansas City Kansas Public Schools Facilities Department is accepting sealed bids from qualified contractors to provide labor and materials for the following work:

Scope of Work

Demolition of existing curb, wall, and removal of debris; Construction of a retaining wall, curb and gutter, curb inlet, and storm pipe along the south side of Lloyd Peterson Lane. More detail provided on attachments.

The Work summarized above is provided as a convenience and may not be inclusive of all specified work.

Any measurements and areas shown/indicated in this solicitation are approximations, and not guaranteed to be 100% accurate. Each bidder is responsible for making an on-site measurement of the area to be serviced, in order to determine exact requirements.

All work is to be completed prior to August 1, 2021.

Location of the Work

Fairfax Learning Center
3016 N 9th Street
Kansas City, KS 66101

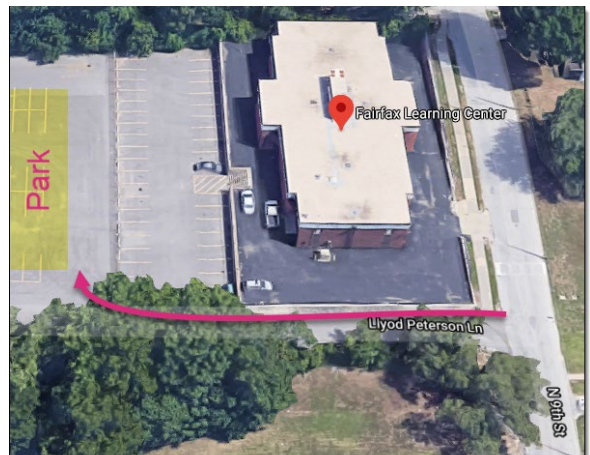
Pre-Bid Meeting

A pre-bid meeting will be held at **10:00 AM** on **February 19, 2021**.

The Pre-bid meeting will be held at:

Fairfax Learning Center
3016 N 9th Street
Kansas City, KS 66101

A "walk-thru" to all review of the project area will follow the Pre-Bid meeting. Attendance at the Pre-Bid Meeting is recommended, but not mandatory.



Bid Security

Bid Bond: Bid security shall be submitted with each bid in the amount of five percent (5%) of the bid amount. No bids may be withdrawn for a period of sixty (60) days after opening of bids. Owner reserves the right to reject any and all bids and to waive informalities and irregularities.

Payment & Performance Bond: Bidder agrees to furnish a Payment & Performance Bond, in the amount of 100% (one hundred percent) of total contract value after receipt of contract.

Prevailing Wage

Prevailing Wage IS NOT required.

Time of Completion

Successful bidder shall begin the Work on receipt of the Notice to Proceed and shall complete the Work (Substantial Completion) no later than **August 1, 2021**.

Liquidated Damages

Completion of this project before August 1, 2021 is imperative. At the District's sole discretion, liquidated damages in the amount of Two-Hundred-Fifty Dollars (\$250.00) per calendar day will be assessed against the Contract if the project is not completed by the date indicated.

Clean-Up

The Contractor will keep the premises free from accumulations of debris and waste materials caused by its employees in performance of the work. At completion of the project, Contractor shall remove all crating, packaging, waste and debris from the building and the site, and all tools, scaffolding and surplus materials, and shall leave the building and site "broom clean" or its equivalent.

Permits, Codes and Ordinances

Each Contractor shall file and pay for required permits affecting its work (if applicable). Each contractor shall conform to applicable codes and ordinances, including OSHA requirements.

Damage to District Property

Contractor at its own expense shall promptly remedy and repair all damages or loss to any property caused in whole or part by its employees, subcontractor(s), supplier or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable.

No Smoking: The District adheres to the mandatory "No Smoking" policy on school premises and/or at school functions. All bidders shall comply with this "No Smoking" policy.

BID FORM

By signing this bid form, the vendor certifies the forms being offered meets or exceeds all requirements and conditions of the bid, special provisions, and specifications. In compliance with the above and subject to all the conditions hereof, the undersigned offers and agrees to furnish all items upon which prices are quoted, at the price set opposite each item.

The undersigned certifies that no Federal, State, County or Municipal tax is included in the above quoted prices and that none will be added. Public schools are TAX EXEMPT. Exemption certificates will be provided upon request.

Bid Form – All Work	
Base Bid – (to include all labor, materials and other costs)	\$
Bid Value Written Out	
Number of Days After Receipt of Order to Start Project	Days
Number of Days to Complete Project	Days

The Lump Sum written out immediately above governs this Bid. For comparative purposes and as the basis for future add/deduct negotiations, also list individual prices for the following work items. The total of these items must equal the Lump Sum above, and should accurately reflect the apportionment of the Bid, including overhead, profit, and taxes.

Where given, use the quantities provided for bidding; if provided quantities are later determined to be inaccurate, an equitable adjustment will be made in the Contract Price by multiplying Bidder's unit rate price times the actual quantity performed; no other pricing will be considered for changes in the Contract Price. If a quantity is not provided, Bidder shall make an independent study to estimate the actual quantity; no Change Order will be considered to correct inaccurate quantities estimated by Bidder.

Repair Item	Base Bid - Descriptions	Unit	Unit Price	Quantity	Extended Price
1	Demolition of existing curb, wall, and removal of debris	Lump Sum	\$	NA	\$
2	Construction of a retaining wall, curb and gutter, curb inlet, and storm pipe	Lump Sum	\$	NA	\$
3	Construction Performance and Payment Bonds	Lump Sum	\$	NA	\$

Designations		If Yes, Please Identify Certified Designation
MBE/WBE/Other Certification Is your firm certified MBE/WBE or Other? (Circle One)>>	Yes / No	

WE HEREBY AGREE TO FURNISH THE ITEMS ON WHICH PRICES ARE QUOTED ABOVE IN ACCORDANCE WITH ALL TERMS AND CONDITIONS PREVIOUSLY LISTED AND ANY ATTACHED SPECIFICATIONS.

BY: _____ DATE: _____
 TITLE: _____ FIRM: _____
 PHONE: _____ EMAIL: _____

ATTACHMENT A – USD 500 STANDARD TERMS AND CONDITIONS

1. SCOPE: The following terms and conditions shall prevail unless otherwise modified by U.S.D. 500 within this bid document. U.S.D. 500 reserves the right to reject any bid which takes exception to these terms and conditions.
2. DEFINITIONS AS USED HEREIN:
 - a. The term "bid request" means a solicitation of a formal sealed bid.
 - b. The term "bid" means the price offered by the bidder.
 - c. The term "bidder" means the offeror or Contractor.
 - d. The term "U.S.D. 500" means Unified School District No. 500.
 - e. The term "Board of Education" or "BOE" means the governing body of Unified School District No.500
3. COMPLETING BID: Bids must be submitted ONLY on the form provided in this bid document. All information must be legible. Any and all corrections and /or erasures must be initialed. Each bid sheet must be signed by the authorized bidder and required information must be provided.
4. CONFIDENTIALITY OF BID INFORMATION: Each bid must be sealed and submitted in or under cover of the enclosed envelope to provide confidentiality of the bid information prior to the bid opening. Supporting documents and/or descriptive literature may be submitted with the bid or in a separate envelope marked "Literature for Bid (Number)." Do NOT indicate bid prices on literature. All bids and supporting bid documents become public information after the bid opening and are available for inspection by the general public in accordance with the Kansas Open Records Act.
5. ACCURACY OF BID: Each bid is publicly opened and is made part of the public record of U.S.D. 500. Therefore, it is necessary that any and all information presented is accurate and/or will be that by which the bidder will complete the contract. If there is a discrepancy between the unit price and extended total, the unit price will prevail.
6. EXAMINATION OF INSTRUCTIONS, CONDITIONS AND/OR SPECIFICATIONS: Bidders shall thoroughly examine and be familiar with all instructions, conditions, and/or specifications. The failure of a Bidder to receive or examine any form, attachments, addendum or other document, or visit to the site when required in order to acquaint the Bidder with existing conditions, shall in no way relieve the Bidder from obligations concerning the bid or the contract. The submission of a bid shall be taken as prima facie evidence of compliance.
7. VERBAL STATEMENTS OF STAFF: Bidders shall not rely upon any oral statements or conversations they may have with District employees, agents, or representatives regarding the solicitation, whether at the Pre-Bid Conference or otherwise. All questions must be submitted by bidders in writing and shall be answered by the District in a written addendum to the solicitation.
8. SUBMISSION OF BID: Bids are to be sealed and submitted to the Purchasing Department Office, 2010 North 59th Street, Room 370, Kansas City, Kansas, 66104, prior to the date and time indicated on the cover sheet.
9. ADDENDA: All changes in connection with this bid will be issued by the Purchasing Office in the form of a written addendum. Signed acknowledgement of receipt of each addendum must be submitted with the bid. It is the responsibility of bidders to review the District website regularly for updates.
10. LATE BIDS AND MODIFICATION OR WITHDRAWALS: Bids received after the deadline designated in this bid document shall not be considered and shall be returned unopened.
11. BIDS BINDING: All bids submitted shall be binding upon the bidder if accepted by U.S.D. 500 within sixty (60) calendar days after the bid opening.
12. EQUIVALENT BIDS: When brand or trade names are used in the bid invitation, it is for the purpose of item identification and to establish standards for quality, style and features. Bids on equivalent items of substantially the same quality, style and features are invited unless items are marked "No Substitute." Equivalent bids must be accompanied by descriptive literature and/ or samples may be required and shall be supplied at no charge to the school district.
13. NEW MATERIALS, SUPPLIES AND EQUIPMENT: Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, of recent manufacture, first class in every respect, and suitable for their intended purpose. All equipment shall be assembled and fully serviced, ready for operation when delivered.
14. WARRANTY: Supplies or services furnished as a result of this bid shall be covered by the most favorable commercial warranties, expressed or implied, that the bidder and/or manufacturer gives to any customer. The rights and remedies provided herein are in addition to and do not limit any rights afforded to U.S.D. 500 by any other clause of this bid reserves the right to request from bidders a separate manufacturer certification of all statements made in the Proposal.
15. METHOD OF AWARD AND NOTIFICATION: Bids will be analyzed and the award made to the lowest and best, responsive and responsible bidder(s) whose bid conforms to the specifications and whose bid is considered to be the best value in the opinion of U.S.D. 500.
16. U.S.D. 500 reserves the right to reject any or all bids and any part of a bid: to waive informalities, technical defects, and minor irregularities in bids received: and to award the bid on an item-by-item basis by specified groups of items or to consider bids submitted on an "all or nothing "basis if the bid is clearly designed as such or when it is determined to be in the best interest of U.S.D. 500.
17. OFFER/ACCEPTANCE: The signed bid shall be considered an offer on the part of the bidder: such offer shall be deemed accepted ONLY upon the issuance by U.S.D. 500 of a valid Purchase Order or other contractual documents.
18. DELIVERY TERMS: All deliveries shall be F.O.B. Destination and all freight charges shall be included in the bid price.
19. DAMAGED AND/OR LATE SHIPMENTS: U.S.D 500 has no obligation to accept damaged shipments and reserves the right to return at the Contractor's expense damaged merchandise even though the damage was not apparent or discovered until after receipt of

the items. The Contractor is responsible to notify U.S.D. 500 Purchasing Office of any late or delayed shipments. U.S.D. 500 reserves the right to cancel all or any part of an order if the shipment is not made as promised.

20. CREDIT TERMS: Bidder shall indicate all discounts for full and/or prompt payment. Discounts shall be considered as a cost factor in the determination of award, except discounts offered for payment within less than ten (10) calendar days. Discounts offered shall be computed from date of receipt of correct invoice or receipt and acceptance of products, whichever is later.
 21. SELLER'S INVOICE: Invoices shall be prepared and submitted in duplicate to address shown on the Purchase Order. Invoices shall contain the following information: Purchase Order number, contract number, item number, description of supplies or services, sizes, unit of measure, quantity, unit price and extended totals.
 22. TAX EXEMPT: U.S.D. 500 is exempt from Federal, State and local taxes by KS-FZLEKBLQ. Sites of all transactions under the order(s) that shall be derived from this bid request shall be deemed to have been accomplished within the State of Kansas.
 23. SAFETY: All practices, materials, supplies and equipment shall comply with the federal Occupational Safety and Health Act, as well as any pertinent Federal, State and/or local safety or environmental codes.
 24. DISCLAIMER OR LIABILITY: U.S.D. 500 will not hold harmless or indemnify any bidder for any liability whatsoever.
 25. TERMINATION RIGHTS: KCKPS shall have the right to terminate/cancel the Agreement for its convenience and without penalty upon thirty (30) days prior written notice to the Contractor.
 26. HOLD HARMLESS: The Contractor agrees to protect, defend, indemnify and hold the Board of Education, its officers, employees and agents fee and harmless from and against any and all losses, penalties, damages, settlements, costs, charges, professional fees or other expenses or liabilities of every kind and character arising out of or relating to any and all claims, liens, demands, obligations, actions, proceedings or causes of action of every kind and character in connection with or arising directly or indirectly out of this agreement and/or the performance hereof. Without limiting the generality of the foregoing, any and all such claims, etc., relating to personal injury, infringement of any patent trademark, copyright (or application for any thereof) or of any other tangible or intangible personal or property right, or actual or alleged violation of any applicable statute, ordinance, administrative order, rule or regulation, or decree of any court, shall be included in the indemnity hereunder. The Contractor further agrees to investigate, handle, respond to, provide defense for and defend any such claims, etc., at his/her sole expense and agrees to bear all other costs and expenses related thereto, even if such claim is groundless, false or fraudulent.
- NO MUTUAL INDEMNIFICATION:
K.S.A.72-8201a: Contracts; indemnification or hold harmless provisions, void.
- (a) It is the public policy of the state of Kansas that all contracts entered into by the board of education of a school district, or any officers or employees thereof acting on behalf of the board, provide that the school district and board of education shall be responsible solely for the district's or board's actions or failure to act under a contract.
 - (b) The board of education of a school district or any officers or employees thereof acting on behalf of the board shall not have the authority to enter into a contract under which the school district or board agrees to, or is required to, indemnify or hold harmless against damages, injury or death resulting from the actions or failure to act on the part of any party to a contract other than the board or district.
 - (c) The provisions of any contract entered into in violation of this section shall be contrary to the public policy of the state of Kansas and shall be void and unenforceable.
27. INSURANCE: Upon receipt of award, Contractor shall provide Certificate of Insurance as required within three (3) days after notification issued by the Purchasing Department.
 - A. The following general insurance requirements apply to any and all work under this contract by all Contractors and subcontractors of any tier.
 - (1) Any and all insurance required by this contract with each and any and all insurance required by this contract shall be maintained during the entire length of this contract, including any extensions thereto, and until all work has been completed to the satisfaction of the Kansas City Kansas Public Schools. Any and all insurance must be on an occurrence basis.
 - (2) No Contractor or subcontractor shall commence work under a contract until all insurance requirements contained within the solicitation have been complied with and until evidence of all insurance requirements in each and every contract with each and every subcontractor of any tier and shall require the same to comply with all such requirements.
 - (3) The Kansas City Kansas Public Schools and Engineering Diagnostics, LLC shall be covered as an Additional Insured under any and all insurance required by this contract. Confirmation of this shall appear on all certificates of insurance and on any and all applicable policies. The title of the awarded contract shall also appear on any and all applicable policies.
 - (4) The Kansas City Kansas Public Schools shall be given no less than thirty (30) days' written notice of cancellation. The Kansas City Kansas Public Schools shall be given not less than thirty (30) days' prior written notice of material changes of any insurance required under this contract. The Kansas City Kansas Public Schools shall be given written notice of renewal of coverage not less than thirty (30) days prior to the expiration of any particular policy.
 - (5) Each and every agent shall warrant when signing the certificate of insurance that he is acting as an authorized representative on behalf of the companies affording insurance coverage under the contract and that he is licensed by the State of Kansas to conduct insurance business in the State of Kansas and that the companies affording insurance coverage are currently licensed by the State of Kansas and are currently in good standing with the Commissioner of Insurance for the State of Kansas.
 - (6) Any and all companies providing insurance required by this contract shall meet the minimum financial security requirements as set forth below. The rating for each company must be indicated on the certificate of insurance.

For all contracts, regardless of risk, companies providing insurance under this contract must have a current:

- (a) Best's Rating not less than A, and
- (b) Best's Financial Size Category not less than Class VII

(7) In the event the Contractor neglects, refuses, or fails to provide insurance required by the contract documents, or if such insurance is canceled for any reason, Kansas City Kansas Public Schools shall have the right, but not the duty, to procure the same, and the cost thereof shall be deducted from monies then due or thereafter to become due to the Contractor or Kansas City Kansas Public Schools shall have the right to cancel the contract.

B. Worker's Compensation and Employer's Liability Insurance

The Contractor shall procure and maintain Worker's Compensation and Employer's Liability Insurance in the following limits. Such insurance is to cover each and every employee who is or may be engaged in work under this contract.

Worker's Compensation.....Statutory

Employer's Liability

Bodily Injury by Accident.....\$1,000,000 each accident
Bodily Injury by Disease.....\$1,000,000 each employee
Bodily Injury by Disease.....\$1,000,000 policy limit

C. Comprehensive General Liability Insurance

The Contractor shall procure and maintain Comprehensive Insurance in an amount not less than \$1,000,000 for bodily injury and property damage combined single limit. The following specific extensions of coverage shall be provided and indicated on the certificate of insurance:

- (1) Comprehensive Form
- (2) Contractual Insurance
- (3) Personal Injury
- (4) Broad Form Property Damage
- (5) Premises – Operations
- (6) Completed Operations

This coverage shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under this contract. Policy coverage must be on an occurrence basis.

D. Automobile Liability Insurance

The Contractor shall procure and maintain Automobile Liability Insurance in an amount not less than \$1,000,000 for bodily injury and property damage combined single limit. The following extensions of coverage shall be provided and indicated on the certificate of insurance.

- (1) Comprehensive Form
- (2) Owned, Hired, Leased and non-owned vehicles

If the Contractor does not own any vehicles in the corporate name, non-owned vehicles coverage shall apply and must be endorsed on either the Contractor's personal automobile policy or the Comprehensive General Liability coverage required under this contract.

E. Commercial Crime insurance (when applicable)

The Contractor shall procure and maintain Commercial Crime/Fidelity insurance in an amount not less than \$1,000,000.00, including coverage for theft or loss of KCKPS property.

28. LAW GOVERNING: All contractual agreements shall be subject to, governed by, and construed according to the laws of the State of Kansas.

29. ANTI-DISCRIMINATION CLAUSE: No bidder on this request shall in any way, directly or indirectly, discriminate against any person because of age, race, color handicap, sex, national origin, or religious creed.

30. BID BOND/PERFORMANCE BOND (Applicable ONLY to Construction/Remodel/Repair Projects, Unless Waived by the District).

A. Each proposal must be accompanied by a certified or cashier's check, or a bid bond in the amount of five percent (5%) of the Contractor's total bid.

B. A Performance Bond and a Material and Labor Payment Bond in amounts equal to one hundred percent (100%) of the contract price shall be furnished by the successful bidder. Bonds shall be issued by a surety acceptable to the Board.

C. NO BID BOND OR PERFORMANCE BOND IS REQUIRED FOR SERVICES

31. DISQUALIFICATION:

A. The Director of Purchasing may, at her/his sole discretion, disqualify a bidder for one or any combination of the following reasons:

- 1. Bidder's product does not meet the specifications or bid conditions of the solicitation;
- 2. Bidder's tendered bid is not received on the District's bid form;
- 3. Bidder's tendered bid is not signed;
- 4. Required bid bond is not furnished at time of bid opening;
- 5. Failure to comply with bid instructions, terms and conditions that are judged to be essential to the competitive process and in the best interests of the District.

B. Disqualification of bidders on future bids may be considered for any one or combination of the following reasons:

- 1. Refusal of the bidder to complete a contract or bid;

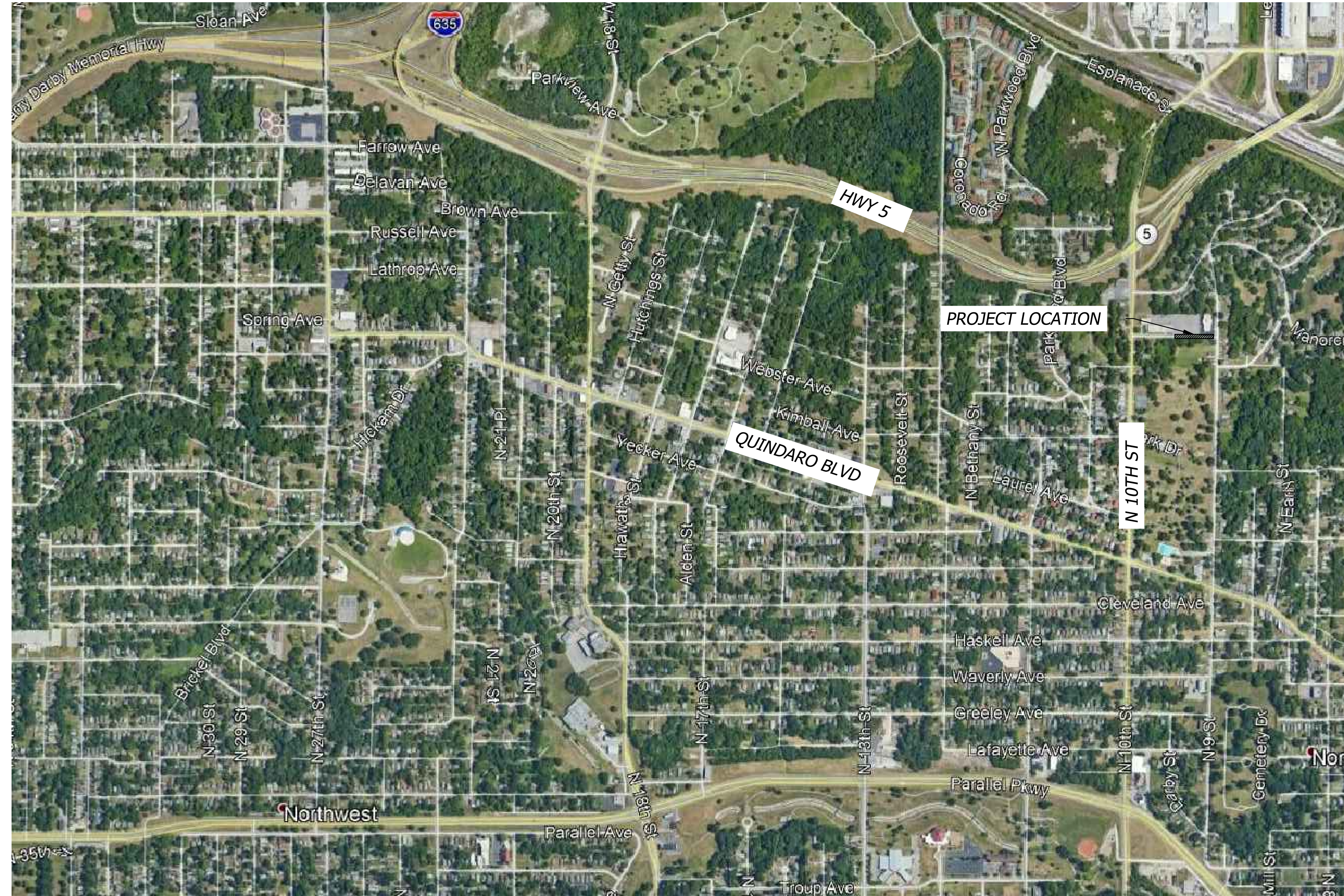
2. Bidder's past history of late deliveries or partial/incomplete shipments,
 3. Bidder's products or services have proven unreliable, unworkable or have not accomplished the result requested in the District's specifications.
32. SUPPLIER DIVERSITY: The Kansas City Kansas Public Schools encourages supplier diversity and participation of MBE/WBE/DBE designated businesses. However, such participation will not result in any selection or scoring advantage in the bid evaluation process.
33. CONTRACTUAL PROVISIONS ATTACHMENT: The Provisions found in Contractual Provisions Attachment (Form DA-146a, Rev. 06-12), which is attached hereto, are hereby incorporated in this contract and made a part thereof."
34. INCLEMENT WEATHER/EMERGENCY POLICY
IF THERE IS A SCHOOL OR BUILDING CLOSURE THE DAY OF THE SCHEDULED BID OPENING, DUE TO INCLEMENT WEATHER OR AN EMERGENCY, THE BID OPENING WILL OCCUR AT 2:00PM (CENTRAL) THE NEXT BUSINESS DAY THAT THE DISTRICT IS OPEN.

FAIRFAX ELEMENTARY ENGINEERING PLANS

3101 N 10TH ST KANSAS CITY, KS 66101

GENERAL NOTE

- All work in public easements and Right-of-Way and all erosion control work must comply with the latest edition of the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas. If any of the general notes conflict with the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas, the UG's standards shall override.



SHEET INDEX

Sheet Number	Sheet Title
0cs	Cover
C1.0	General Information
C2.0	Demolition Plan
C3.0	Site Plan
C4.1	Grading Plan
C4.2	Erosion Control Plan
C5.0	Civil Details
C6.1	Wall General Notes
C6.2	Wall Plan & Profile
C6.3	Section A-A
C6.4	Wall Details

UTILITIES

NOTE:
48 hours prior to commencement of construction, the contractor shall notify the following companies for field verification of underground utilities.

BPU Water
Jenny Li
540 Minnesota Ave
Kansas City, KS 66101-2930
(913) 573-9845

BPU Electric
Courtney Connor
6742 Riverview
Kansas City, KS 66111
(913) 573-9538

Atmos Energy
Richard Yungans
25090 W 110th Ter
Olathe, KS 66061
(913) 764-0531, ext. 234

AT&T
Randal Gaskin
rg9513@att.com
(913) 383-6948

Kansas Gas Service
Christina Murphy
1421 N 3rd St
Kansas City, KS 66101
(913) 599-8953

Spectrum
Alex Cashman
charles.cashman@charter.com
(913) 915-0553

Unified Government of Wyandotte
County/Kansas City, Kansas Water Pollution
Control Department - Sanitary and Storm

Kevin Swarengin or Kirk Roland
913-573-1360



1-800-DIG-SAFE
(1-800-344-7233)



Know what's below.
Call before you dig.

BENCHMARKS (DATUM: NAVD88)

WYANDOTTE COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 1
ELEVATION= 865.78'

SET RAILROAD SPIKE IN NORTH FACE OF POWER POLE #15391 ±75 FEET
SOUTHEAST OF CP#10 ON THE EAST SIDE OF NORTH 10TH STREET.

WYANDOTTE COUNTY VERTICAL CONTROL POINT BENCHMARK
BENCHMARK NUMBER: 2
ELEVATION= 864.81'

SET RAILROAD SPIKE IN SOUTH FACE OF POWER POLE #153849.49 ±45
FEET NORTH OF CP#12 EAST SIDE OF 9TH STREET.

PROJECT CONTROL TABLE (NAD83 KANSAS STATE PLANE, NORTH ZONE, US SURVEY FOOT)						
POINT NO.	CONTROL POINT/ BENCHMARK DESCRIPTION	GROUND VALUE NORTHING COORDINATE	GROUND VALUE EASTING COORDINATE	ELEV.	GRID VALUE NORTHING COORDINATE	GRID VALUE EASTING COORDINATE
10	CP10/1B4 CP CAP	311527.53	2266552.46	860.24'	311527.53	2266552.46
11	CP11/MAG&WASHER IN ASPHLT	311544.90	2266972.15	860.69'	311544.90	2266972.15
12	CP12/1B4 CP CAP	311534.25	2267318.52	858.74'	311534.25	2267318.52

GRID = GROUND AT CP#11 WITH A COMBINED SCALE FACTOR OF: 0.999922643

SITE DISTURBANCE DATA

Site Area: 3.42 ac
Land Disturbance: 6434 sf
Increase in Imperviousness: 219 sf
Earthwork - Cut: 23 cy
Earthwork - Fill: 360 cy

OWNER

Kansas City, Kansas Public Schools
2220 N 59th St
Kansas City, KS 66104

CERTIFICATION

I hereby certify that this project has been designed and prepared to meet or exceed the Design Criteria of the Unified Government, Wyandotte County, Kansas City, Kansas.

PREPARED & SUBMITTED BY:

BHC RHODES
Overland Park, Kansas

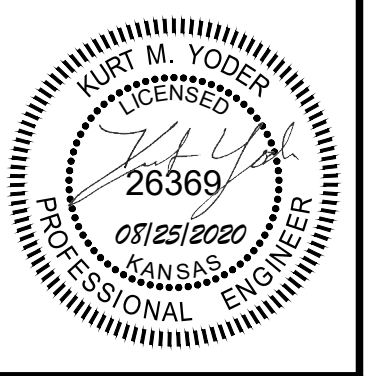
08/25/2020
Kurt Yoder, P.E. - Project Engineer
Kansas P.E. No. 26369

APPROVED BY:

By the Unified Government of Wyandotte County,
Kansas City, Kansas.

Date

Rev.	Date	Description	By	App.



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BHC RHODES is a member of Brungart International Co., Kansas, PA.

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KANSAS CITY, KS 66104
(913) 627-3850

FAIRFAX ELEMENTARY
3101 N 10TH ST
KANSAS CITY, KS 66101
CONSTRUCTION DOCUMENTS
COVER

Design: KMY | Drawn: KMY
Checked: KMY
Issue Date: 04/06/2020
Project Number: 027470

OCS

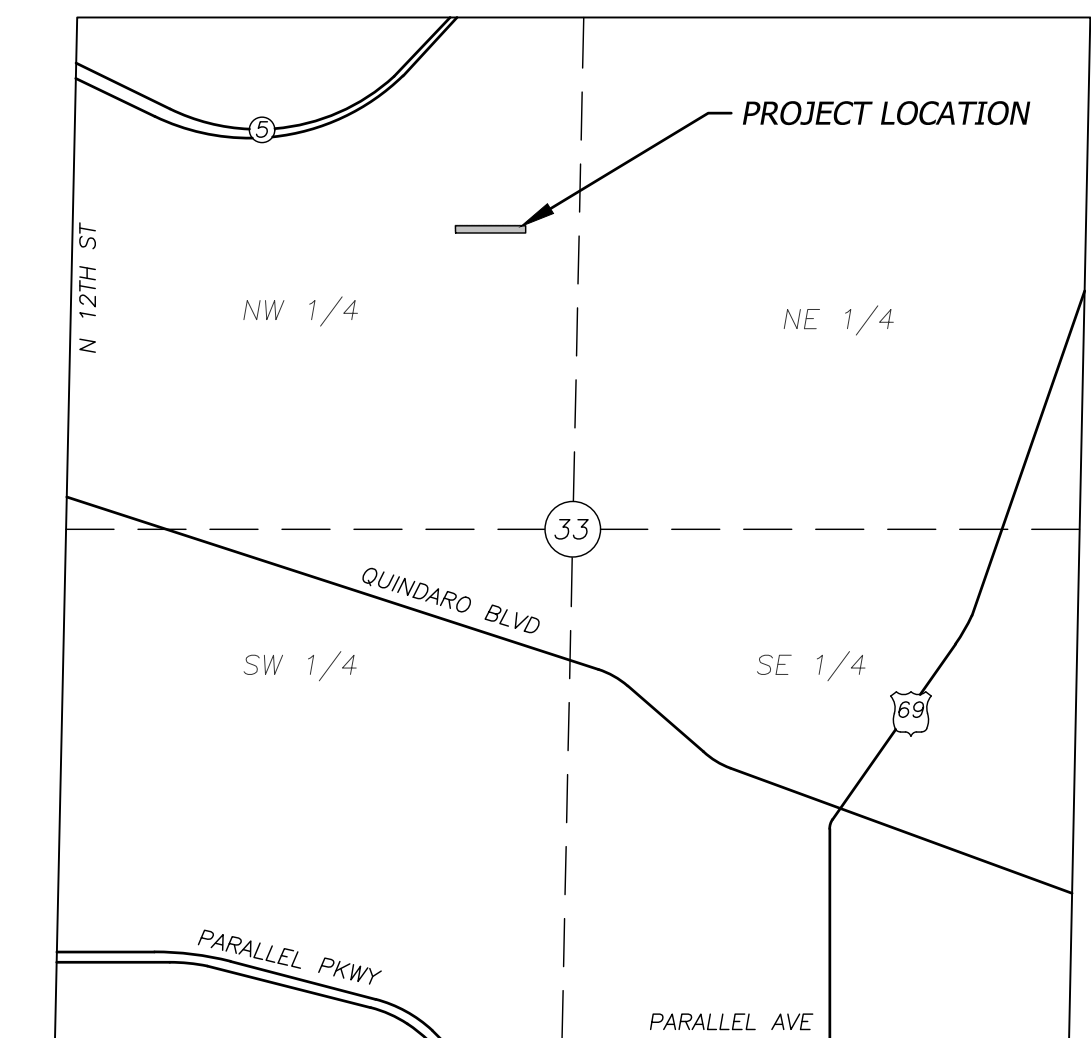
LEGEND

Proposed Line Types and Symbols shown. Existing Line Types and Symbols shall be the same, but screened, unless designated otherwise by the inclusion of a survey by others.

<ul style="list-style-type: none"> ● Set Survey Monument ● Set Survey Monument (in concrete) ○ Found Survey Monument □ Found Survey Monument in Box (O.U.) Origin Unknown △ Found Right-of-Way Marker ▲ Control Point ◆ Benchmark ■ Set Hub --- OHK Overhead Utility Line(s) --- UEL Underground Electric Line Marker --- UEL Underground Electric Line --- UEL Underground KCPBL Line (e.g.) --- UEL Utility Pole --- UEL Utility Pole with Transformer --- UEL Guy Anchor --- UEL Utility Pole w/ Light & Arm --- UEL Street Light Pole w/ Arm --- UEL Street Light Pole (14') --- UEL Electric Pedestal (above ground) --- UEL Electric Meter --- UEL Electric Access Vault (underground) --- UEL Electric Access Box (mounted) --- UEL Electric Manhole --- UEL Electric Pull Box (underground) --- UEL Transformer (pad mounted) --- UEL Yard Light --- UEL Air Conditioner Unit --- WL Water Line --- WSL Water Service Line --- WSLM Underground Water Line Marker --- WV Water Valve --- FH Fire Hydrant --- FFA Fire Hydrant Assembly --- WM Water Meter --- WM Water Manhole --- WUV Water Vault (underground) --- SCB Sprinkler Control Box --- SH Sprinkler Head --- YH Yard Hydrant --- BV Backflow Valve (BVF) --- BPF Backflow Preventer (BPF) --- BOA Blow-Off Assembly --- GL Gas Line --- GSL Gas Service Line --- USL Underground Spire Line (e.g.) --- UGL Underground Gas Line Marker --- GM Gas Manhole or Access Lid --- GV Gas Valve --- RU Regulator Unit --- GM Gas Meter --- CV Casing Vent --- UPL Underground Pipe Line (High Capacity) --- UPLM Underground Pipe Line Marker --- ULT Underground Telephone Line --- ULT Underground AT&T Line (e.g.) --- ULT Underground Telephone Line Marker --- TP Telephone Pedestal (above ground) --- TM Telephone Manhole --- TAV Telephone Access Vault (underground) --- TAB Telephone Access Box (mounted) --- UFL Underground Fiber Optic Line --- UFLM Underground Fiber Optic Line Marker --- FOP Fiber Optic Pedestal --- FOM Fiber Optic Manhole --- FOV Fiber Optic Vault (underground) --- FOPM Fiber Optic Pedestal on top of Vault --- [36'] Traffic Signal Post w/ Mast Arm --- PPS Pedestrian Signal Pole --- TCM Traffic Control Manhole --- TCC Traffic Control Cabinet --- TCV Traffic Control Vault (underground) --- UCL Underground Cable TV Line --- UCLM Underground Spectrum Line (e.g.) --- UCLM Underground Cable TV Marker --- CTV Cable TV Pedestal (above ground) --- MLU Manhole-Unknown Purpose --- GTA Grease Trap Access Lid --- MW Monitoring Well --- BW Bore Hole --- FLU Fill Lid (for Underground Tank) --- SSL Sanitary Sewer Line --- SSSL Sanitary Sewer Service Line --- SSM Sanitary Sewer Manhole --- CO Clean-out --- VCP Vitrified Clay Pipe --- DIP Ductile Iron Pipe --- PCP Polyvinyl Chloride Pipe --- CIP Cast Iron Pipe --- UULM Underground Utility Line Marker --- MGR Metal Guard Rail or Handrail --- FP Flag Pole --- SD Satellite Dish --- MB Mailbox --- CMB Concrete or Metal Bollard --- WMB Wood Bollard or Wood Post 	<ul style="list-style-type: none"> SSM Storm Sewer Line SSM Storm Sewer Manhole CI Curb Inlet FI Field Inlet JB Junction Box GI Grate Inlet GI (Round/Domed) Grate Inlet ES End Section HW Headwall DS Down Spout RD Roof Drain CM Corrugated Metal Pipe CMAP Corrugated Metal Arch Pipe CP Corrugated Plastic Pipe HDPE High Density Polyethylene Pipe RCRP Reinforced Concrete Pipe RCAP Reinforced Concrete Arch Pipe RCB Reinforced Concrete Box FE Flared End Section PCO Pipe Continues-Outlet or Source Not Found or Not Surveyed WF Wood Fence CLF Chain Link Fence WFF Wire Fence (with or without barb) BWF Barbed Wire Fence PF Plastic Fence IMF Iron or Metal Fence GF Gate Post RW Retaining Wall SP Single Pole Sign SPS Single Pole Sign SPD Double Pole Sign RRC Railroad Crossing Gate RSW Railroad Switch Machine RT Railroad Tracks WS Wheel Stop ADA ADA Parking Stall ADA ADA Detection Warning Pad B Bush DT Deciduous Tree and Size (Scaled for Size) CT Deciduous Tree and Size (Scaled for Size) TS Tree Stump FD Foliage Drip Line/Edge of Timber Hedge CL Center Line PL Property Line R/W Right-of-Way Line R= Radius L= Arc Length CB Chord Bearing CD Chord Distance Δ Interior Angle (Delta) I.T.B. Initial Tangent Bearing R/W Right-of-Way (M) Monumented (m) Measured (D) Deeded (P) Platted (C) Calculated (CR) Calculated from Record Dimensions (CM) Calculated from Found Monuments (PR) Proportioned BK Book PG Page DOC Document Number INS Instrument Number VOL Volume ESMT Easement B/L Building Setback Line U/E Utility Easement D/E Drainage Easement ST/E Storm Sewer Easement S/E Sanitary Sewer Easement IE/E Ingress/Egress Easement TC/E Temporary Construction Easement SQ, FT. Square Feet AC Acres CY Cubic Yard LF Linear Feet CO. Company LD Landscaping (Bushes, Trees, Flowers, Border, Mulch, any or all of them) ASPH Asphalt CONC Concrete COR Corner R.WALL Retaining Wall STA Station Lt Left Rt Right PI Point of Intersection PC Point of Curve PT Point of Tangent NTS Not To Scale NTS Not To Scale
---	--

GENERAL NOTES

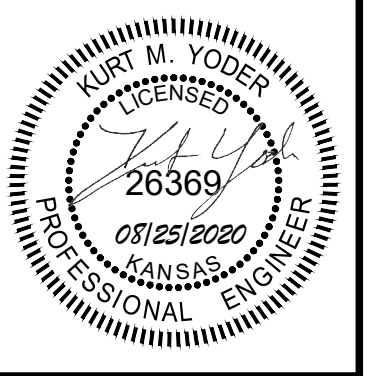
- All work in public easements and Right-of-Way and all erosion control work must comply with the latest edition of the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas. If any of the general notes conflict with the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas, the UG's standards shall override.
- The Contractor shall be required to obtain all Federal, State, and Local permits required for this project prior to commencing construction.
- Any work adjacent to or crossing existing streets requires proper traffic control devices. Traffic control devices shall be placed in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).
- The contractor shall be required to demolish, remove and dispose of all existing structures, pavements, and features necessary to construct the improvements shown hereon. Any waste materials generated during construction shall be removed from the site by the Contractor and disposed of in accordance with all local, State, and Federal regulations governing such disposal.
- The contractor shall prevent any trash, debris, or liquid wastes from being disposed of in sanitary sewers, storm sewers, or open drainage systems.
- The Contractor shall be solely responsible to protect adjacent property, structures, and other improvements from damage during construction. In the event of damage to adjacent property, structures, or improvements, the contractor shall repair or replace such damage to the Owner's satisfaction at the Contractor's expense.
- Contractors at the site shall be solely responsible for jobsite safety for all aspects of work shown hereon.
- All work and materials used in the construction of the improvements shown hereon shall comply with all referenced standards, specifications, and plan notes.
- Contractor shall be responsible for contacting all utility companies for field locations of underground utilities affected by the contract. All existing utilities indicated on these plans are according to the best information available to the engineer; however, all utilities actually existing may not be shown. Utilities damaged through the negligence of the contractor to obtain the location of same shall be repaired or replaced at the expense of the contractor.
- Coordinate with facility representative as to when construction activities may be performed to work with the operations of the facility.
- Any and all hazards shall be properly identified and barricaded from access during all non-construction periods.
- Unless specified otherwise, all construction shall meet the requirements of the Kansas Department of Transportation (KDOT) Standard Specifications, except as modified by these plans.
- Third party inspection of the storm sewer is required, after inspection, provide documentation to the Unified Government.
- Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the Unified Government with reports and documentation.
- A Right-of-Way permit is required from the Unified Government, Kansas Public Works Department for any work within the public right-of-way.



SECTION MAP

SCALE: 1" = 1000'
SECTION 33-1105-R25E
WYANDOTTE COUNTY, KANSAS

App.	By	Description	Rev.	Date



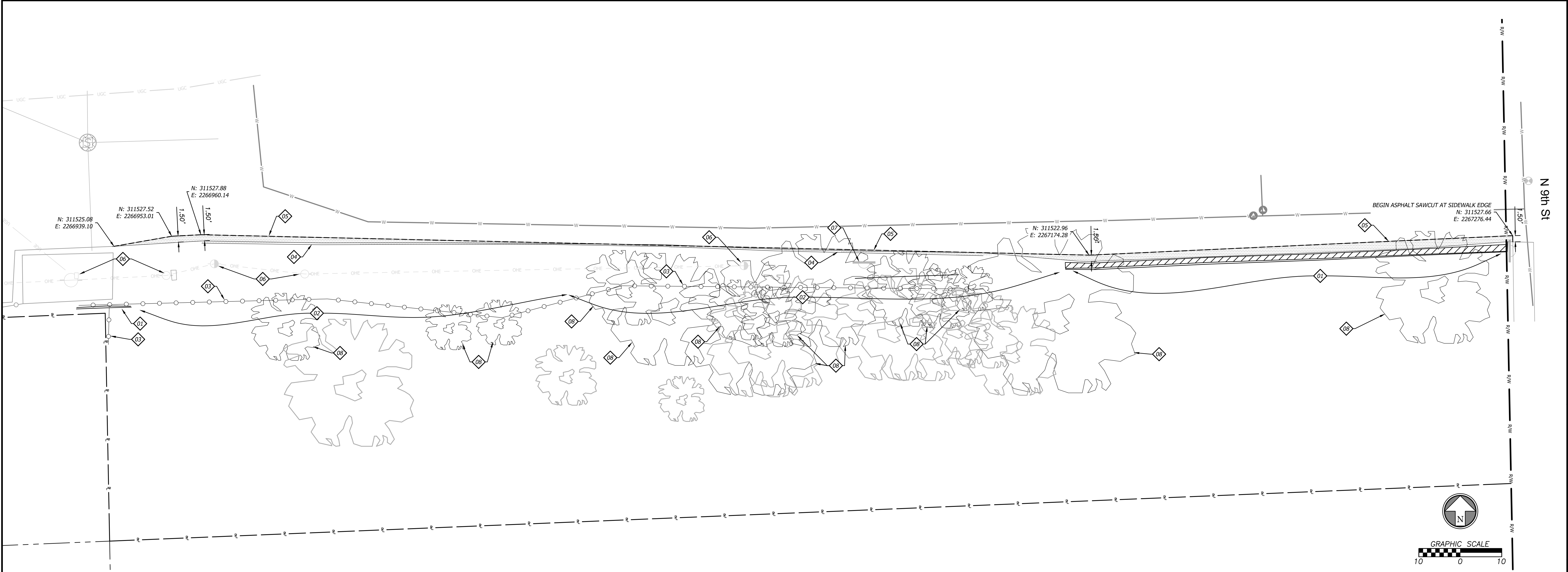
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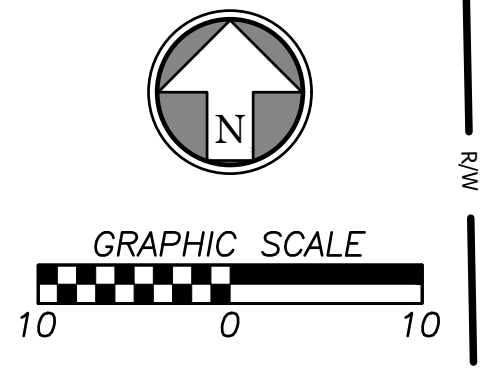
FAIRFAX ELEMENTARY
3101 N 10TH ST
KANSAS CITY, KS 66101
CONSTRUCTION DOCUMENTS
GENERAL INFORMATION

Design: KMY	Drawn: KMY
Checked: KMY	
Issue Date: 04/06/2020	
Project Number: 027470	

C1.0



N 9th St



GENERAL NOTES

1. Contractor shall verify the location, size, and depth of all utilities prior to any excavation or construction activity.
2. The contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired back to meet current code to the furthest extent possible, as deemed by the engineer, at no additional cost to the owner.
3. All materials shall be removed and disposed of off-site. It is the contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
4. The contractor shall be responsible for obtaining and payment of any permits for demolition that pertain to this project.
5. All protection fencing shall be installed prior to demolition/construction activity. The contractor shall provide a 6' security fence around the entire job site with locked gated access points, if required by the owner or the city.
6. All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the contractor at no additional cost to the owner.

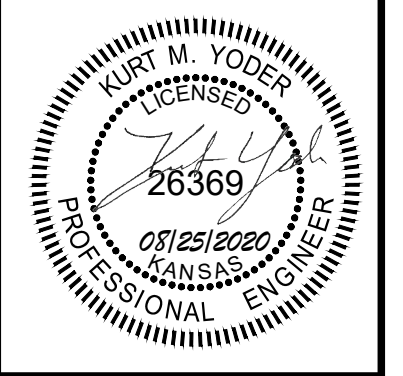
DEMOLITION NOTES

- 01 REMOVE & DISPOSE OF EXISTING STONE RETAINING WALL.
- 02 REMOVE & DISPOSE OF EXISTING STONE RUBBLE ON EMBANKMENT.
- 03 REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.
- 04 REMOVE & DISPOSE OF EXISTING ASPHALT CURB.
- 05 SAW CUT EXISTING PAVEMENT TO FULL DEPTH AND CLEAN EDGE.
- 06 UTILITY POLES TO BE PROTECTED DURING DEMOLITION.
- 07 SIGN TO BE REMOVED AND REPLACED AFTER COMPLETION OF WALL
- 08 REMOVE & DISPOSE OF TREE. ROOTS SHALL BE COMPLETELY REMOVED AND VOID AREAS FILLED WITH STRUCTURAL FILL.

DEMOLITION LEGEND

- SAW CUT LINE
- [Hatched Box] ASPHALT PAVEMENT TO BE REMOVED
- PROPERTY LINE
- - - RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE

Rev.	Date	Description	By	App.



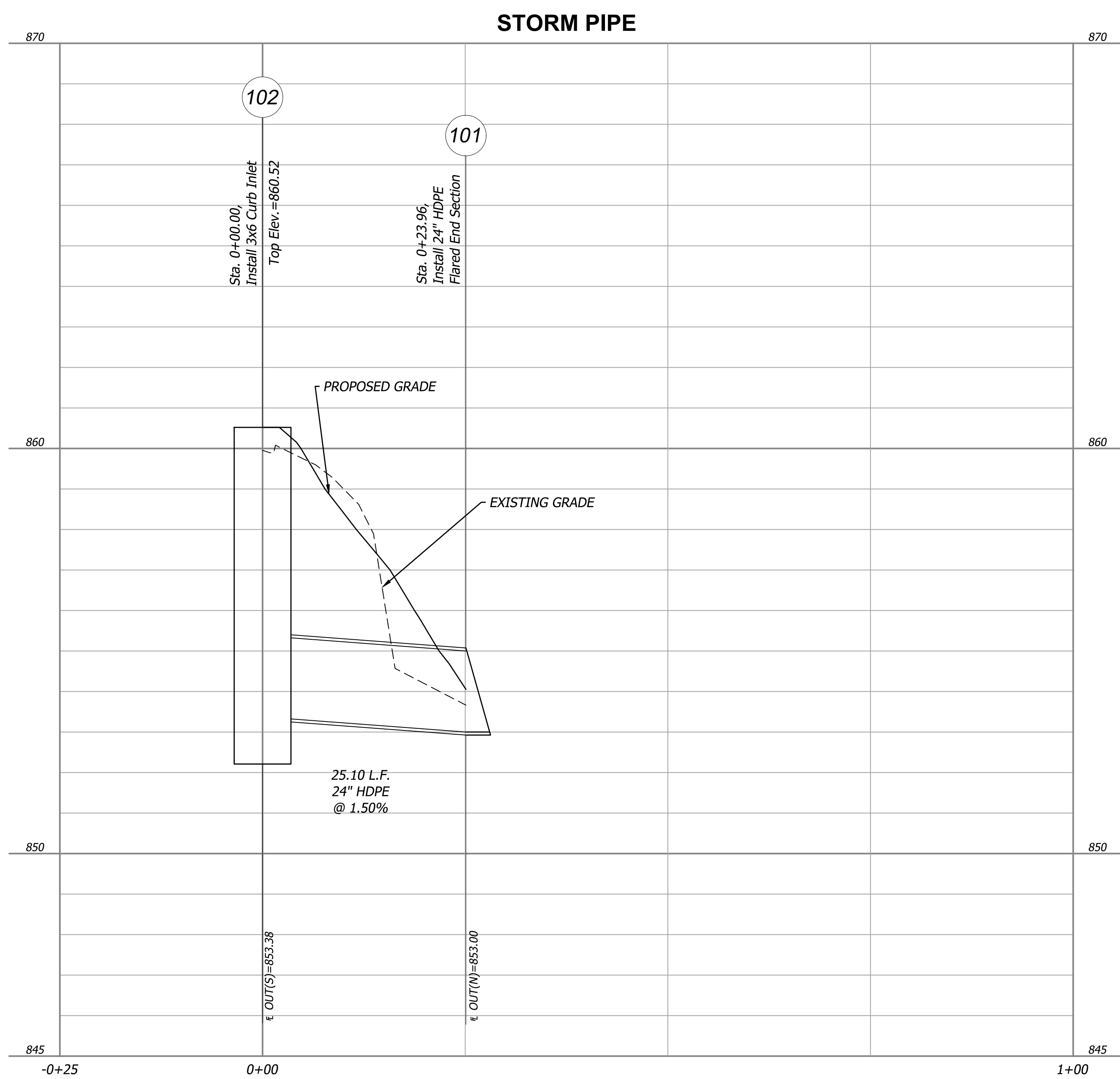
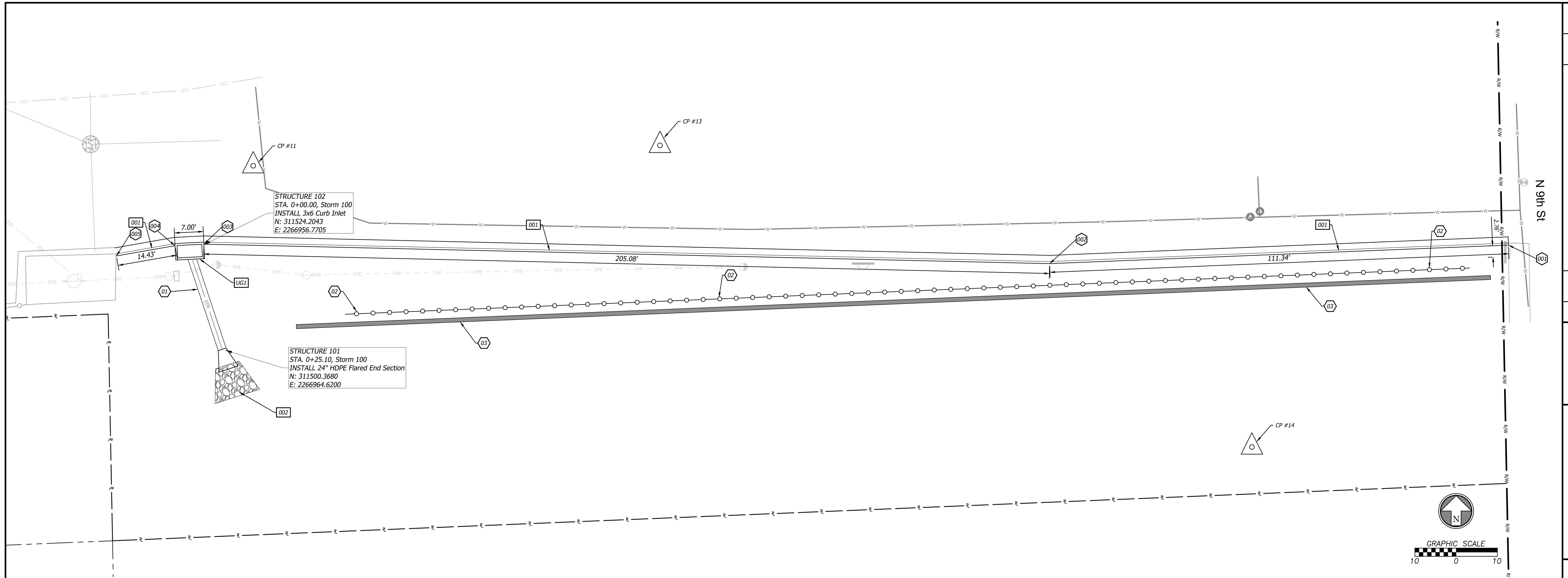
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FAIRFAX ELEMENTARY
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KANSAS CITY, KS 66101
CONSTRUCTION DOCUMENTS
DEMOLITION PLAN

Design: KMY | Drawn: KMY
 Checked: KMY
 Issue Date: 04/06/2020
 Project Number: 027470

C2.0



CONSTRUCTION NOTES

- 01 24" HDPE STORM LINE. SEE PLAN AND PROFILE, THIS SHEET
- 02 INSTALL 42" GALVANIZED CHAINLINK FENCE BEHIND MODULAR BLOCK WALL. SEE WALL PLAN SHEET C6.2 FOR STATIONING OF FENCE. SEE WALL SECTION A-A ON C6.3 FOR FENCE PLACEMENT BEHIND WALL.
- 03 ENGINEERED MODULAR BLOCK RETAINING WALL. SEE RETAINING WALL PLANS C6.1-C6.4.

DETAILS

SEE THE RESPECTIVE UNIFIED GOVERNMENT'S DETAILS FOR CURB INLET

- UG1 5500 A-D 3x6 CURB INLET DETAIL (NO SETBACK)

SEE CONSTRUCTION DETAILS - SHEET C5.0

- 001 CONCRETE CURB & GUTTER
- 002 RIP RAP PROTECTION

STORM NOTES

1. UNDERGROUND STORM PIPE SYSTEM DESIGNED TO CARRY MINIMUM 100 YEAR STORM EVENT USING INTENSITY VALUE GIVEN BY UG STORM CRITERIA ($i=10.01$ for $T_c=7$ min).
2. ALL STORM CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE UNIFIED GOVERNMENT'S STANDARDS.
3. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE OR TO THE END OF FLARED END SECTION. ALL PIPES SHALL BE FIELD STAKED TO THE INSIDE WALL FACE OF THE STRUCTURE.
4. ALL PIPE SHALL BE PLACED IN TRENCH CONDITIONS. PLACE A MINIMUM OF 2 FEET OF FILL OVER PROPOSED PIPE BEFORE TRENCHING AND PIPE INSTALLATION. PROPOSED FILL SHALL BE PLACED IN ACCORDANCE WITH PROJECT REQUIREMENTS.
5. UTILITY LINES AND STRUCTURES IN FILL AREAS BELOW PIPE GRADE SHALL NOT BE CONSTRUCTED UNTIL ALL CONSOLIDATION OF THE FILL IS COMPLETE AND SO APPROVED BY THE ON-SITE ENGINEER.
6. THE DIMENSIONS FOR ALL STRUCTURES ARE FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE
7. ALL CURB INLETS AND OTHER STRUCTURES SET AT LOW POINTS ARE TO BE SET LEVEL. ALL OTHER CURB INLETS ARE TO BE SET WITH THE GRADE OF THE TOP OF CURB OR PAVEMENT.
8. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED CONCRETE INVERT FROM INVERT IN TO INVERT OUT.
9. THE LIDS OF ALL PRECAST STRUCTURES SHALL BE GROUTED TO THE TOP OF THE WALLS.
10. NORTHING AND EASTINGS SHOWN ARE CENTER OF STRUCTURE OR TO END OF END SECTION.
11. THE FIRST DIMENSION SHOWN IS THE "L" DIMENSION AND THE SECOND IS THE "W" DIMENSION ON RECTANGULAR STRUCTURES. SEE DETAILS.
12. ALL HDPE PIPE SHALL BE ADS N-12, OR APPROVED EQUAL, MEETING AASHTO M294, TYPE S OR ASTM F2306. THE PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. PIPE JOINTS SHALL BE JOINTED USING A BELL & SPIGOT JOINT MEETING AASHTO M252, AASHTO M294 OR ASTM F2306. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212 AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT SUPPLIED BY THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY.
13. FITTINGS FOR PLASTIC PIPE SHALL CONFORM TO AASHTO M252, AASHTO M294, OR ASTM F2306. ALL WYES SHALL BE DUAL WALL WYES CONSISTENT WITH THE ADS N-12 PIPE WATERTIGHT CONNECTIONS.

SITE DATA

SITE AREA	3.42 AC
INCREASE IN IMPERVIOUS AREA	148,789 SF
DISTURBED AREA	219 SF
	6909 SF

ZONING

R-1 (B) (SINGLE FAMILY DISTRICT)

SITE LEGEND

- STANDARD CURB & GUTTER
- RETAINING WALL
- PROPOSED RIP RAP
- PROPOSED STORM PIPE
- PROPOSED CHAINLINK FENCE

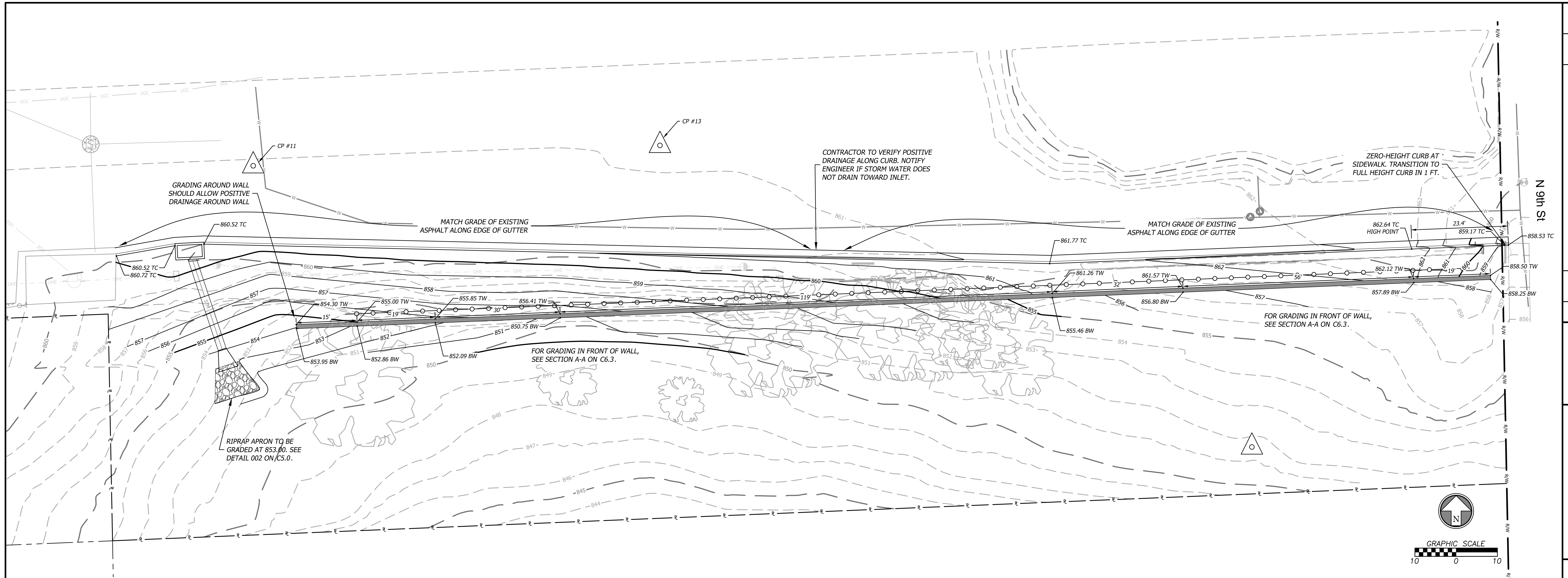
Coordinate Table

PNT#	NORTHING	EASTING
001	311525.6619	2267276.4841
002	311521.1629	2267165.2365
003	311525.8819	2266960.2098
004	311525.5216	2266953.1994
005	311523.0239	2266938.9826

DIMENSION/COORDINATE NOTE

- 1. ALL DIMENSIONS AND COORDINATES ARE TO BACK OF CURB.

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<p>Prepared For: KANSAS CITY KANSAS PUBLIC SCHOOLS KANSAS CITY, KS 66104 (913) 627-3850</p>	<p>FAIRFAX ELEMENTARY 3101 N 10TH ST KANSAS CITY, KS 66101 CONSTRUCTION DOCUMENTS SITE PLAN</p>
<p>Design: KMY Drawn: KMY Checked: KMY Issue Date: 04/06/2020 Project Number: 027470</p>	<p style="font-size: 2em; font-weight: bold;">C3.0</p>



GRADING NOTES

- All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
- All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
- All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
- All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
- Finished grades shall not be steeper than 3:1, except for riprap pad.
- All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.

GRADING LEGEND

	STANDARD CURB & GUTTER	0000.00 FG	FINISHED GRADE ELEVATION
	RETAINING WALL	0000.00 TC	TOP OF CURB ELEVATION
	FINISH GRADE MAJOR 5' CONTOURS	0000.00 TP	TOP OF PAVEMENT ELEVATION
	FINISH GRADE MINOR 1' CONTOURS	0000.00 TW	FG @ TOP OF RETAINING WALL
	EXISTING GRADE MAJOR 5' CONTOURS	0000.00 BW	FG @ BOTTOM OF RETAINING WALL
	EXISTING GRADE MINOR 1' CONTOURS	0000.00 ME	MATCH EXISTING GRADE
	PROPOSED STORM SEWER LINE	0000.00 TE	TOP ELEVATION OF STRUCTURE
	PROPERTY LINE	0000.00 XX	HIGH POINT AT SPECIFIC CALLOUT
	RIGHT-OF-WAY LINE	0000.00 XX	HIGH POINT
		0000.00 XX	LOW POINT AT SPECIFIC CALLOUT
		0000.00 XX	LOW POINT

FLOOD STATEMENT

The subject property lies within Flood Zone "X" (unshaded) [Areas determined to be outside the 0.2% annual chance floodplain], as shown on the Wyandotte County, Kansas and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.).
 Map Number: 20091c0022G
 Panel No: 70 of 210
 Map Revised Date: February 5, 2014

NOTE: This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

BENCHMARKS (DATUM: NAVD88)

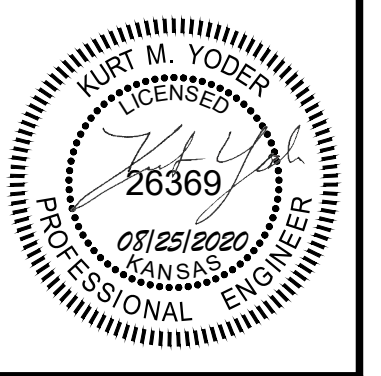
- WYANDOTTE COUNTY VERTICAL CONTROL POINT BENCHMARK**
 BENCHMARK NUMBER: 1
 ELEVATION= 865.78'
 SET RAILROAD SPIKE IN NORTH FACE OF POWER POLE #15391 ±75 FEET SOUTHEAST OF CP#10 ON THE EAST SIDE OF NORTH 10TH STREET.
- WYANDOTTE COUNTY VERTICAL CONTROL POINT BENCHMARK**
 BENCHMARK NUMBER: 2
 ELEVATION= 864.81'
 SET RAILROAD SPIKE IN SOUTH FACE OF POWER POLE #153849.49 ±45 FEET NORTH OF CP#12 EAST SIDE OF 9TH STREET.

PROJECT CONTROL TABLE (NAD83 KANSAS STATE PLANE, NORTH ZONE, US SURVEY FOOT)

POINT NO.	CONTROL POINT/ BENCHMARK DESCRIPTION	GROUND VALUE NORTHING COORDINATE	GROUND VALUE EASTING COORDINATE	ELEV.	GRID VALUE NORTHING COORDINATE	GRID VALUE EASTING COORDINATE
10	CP10/IB4 CP CAP	311527.53	2266552.46	860.24'	311527.53	2266552.46
11	CP11/MAG&WASHER IN ASPHLT	311544.90	2266972.15	860.69'	311544.90	2266972.15
12	CP12/IB4 CP CAP	311534.25	2267318.52	858.74'	311534.25	2267318.52

GRID = GROUND AT CP#11 WITH A COMBINED SCALE FACTOR OF: 0.999922643

App.	By	Date	Description



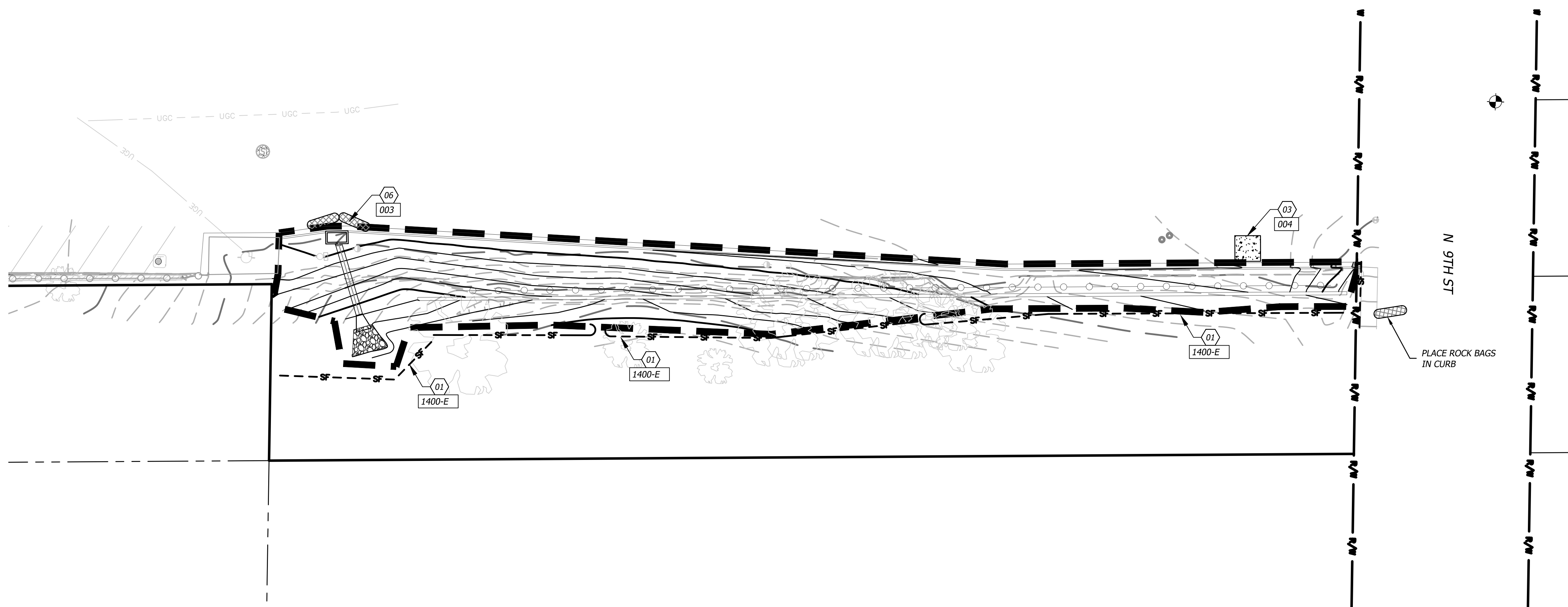
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 BHC is a member of the Engineering Council of Kansas, PA.

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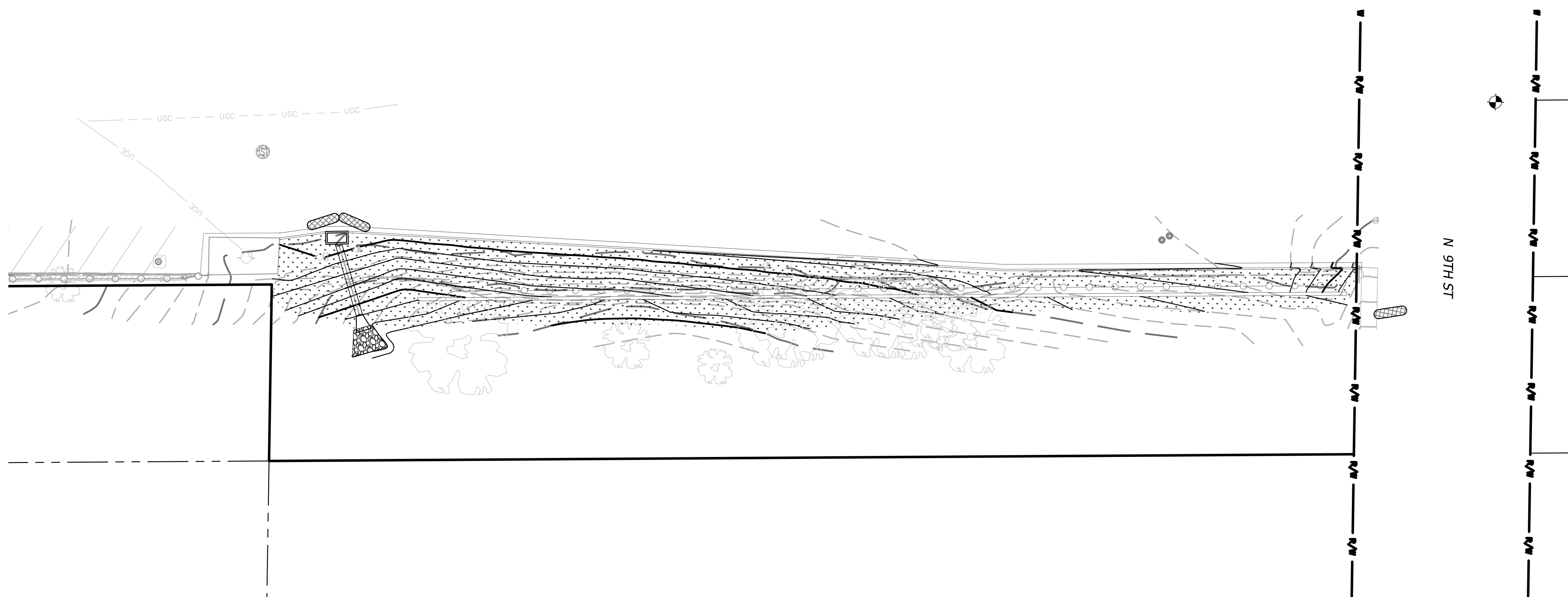
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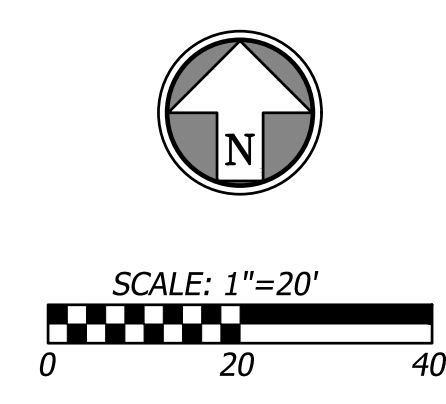
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PRE-CONSTRUCTION AND MID-CONSTRUCTION EROSION CONTROL PLAN



POST-CONSTRUCTION EROSION CONTROL PLAN

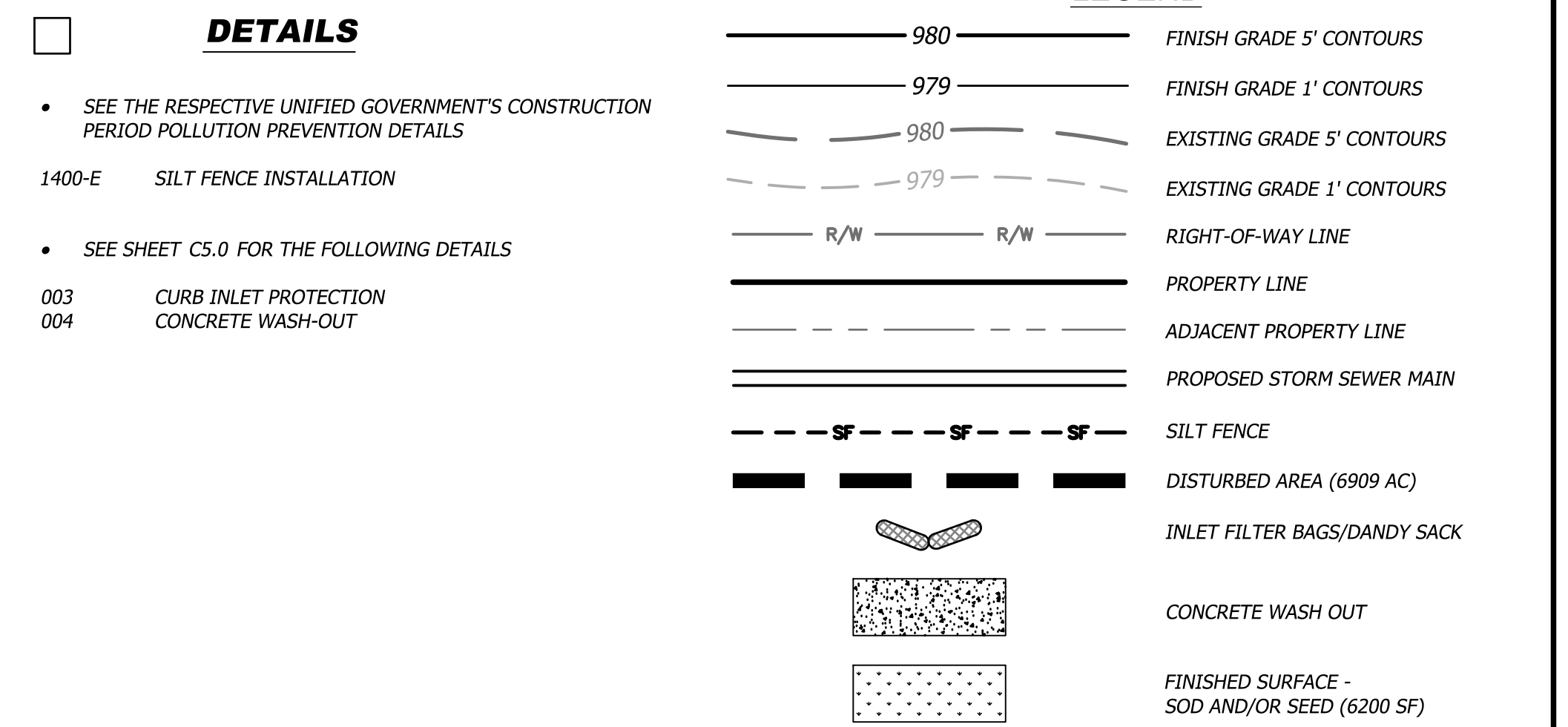


EROSION AND SEDIMENT CONTROL GENERAL NOTES

- Prior to Land Disturbance activities, the contractor shall:
 - Delineate the outer limits of any natural stream corridor designated with construction fencing.
 - Construct a stabilized entrance/parking/delivery area.
 - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
 - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and sediment control plan.
- The contractor shall comply with all requirements of the Kansas Department of Health and Environment (KDHE) and NPDES Stormwater Runoff from Construction Sites General Permit, KC-APWA Specifications Section 2150, including but not limited to:
 - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased and will not resume for more than 14 days.
 - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
 - During active construction phases - at least once per week
 - During periods of inactivity - at least once per 14 days
 - After each rainfall event of 1/2 inch or more - within 24 hours of the rain event
 - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
 - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.
- Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area. All seeding shall be stabilized with straw mulch.
- The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an on-site drainage channel.
- The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.
- Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.
- Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.
- Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.
- Install interior silt fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the Unified Government with reports and documentation.
- All protection fencing shall be installed prior to any land disturbance activity. The contractor shall provide a 6' security fence around the entire job site with locked gated access points.
- All work in public easements and Right-of-Way and all erosion control work must comply with the latest edition of the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas. If any of the general notes conflict with the Technical Provision & Standard Drawings for Roads and Sewers, of the Unified Government of Wyandotte County/Kansas City, Kansas, the UG's standards shall override.
- The contractor shall provide all materials, tools, equipment, and labor as necessary to install and maintain adequate erosion control, keep the streets clean of mud and debris, and prevent soil from leaving the project site. The contractor's erosion control measures shall conform to the Unified Government of Wyandotte County, Kansas City, KS Technical Provisions specifications.

EROSION/SEDIMENT CONTROL STAGING CHART

Project Stage	BMP Plan Ref No.	BMP Description	Remove after stage:	Notes:
A - Place BMP's Prior to Land Disturbance.	01	Perimeter Silt Fence	D	Place as shown on plan.
	02	Construction Entrance & Staging Area	D	Not used
	03	Concrete Wash-out	D	Place as shown on plan.
	04	Storm Inlet Protection	D	Place as shown on plan.
B - After stripping, grubbing, & mass grading	05	Interior Silt Fence	D	To be placed and removed per construction schedule - general location shown on plan.
C - After Utility Storm Sewer Construction	06	Storm Inlet Protection	D	Place as shown on plan.
D - Final Grading, Paving & Landscaping		Final Seeding, Sod and Landscaping	N/A	Silt fencing & inlet protection may be removed once seed & sodded areas are established on 70% of site.



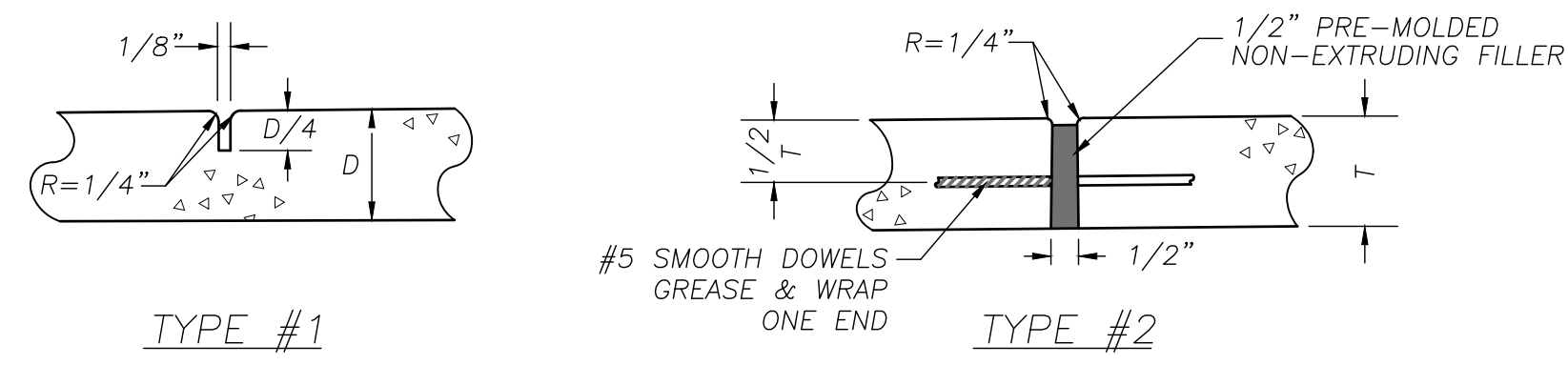
Prepared For: **KANSAS CITY KANSAS PUBLIC SCHOOLS**
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Design: **KMY** Drawn: **KMY**
 Checked: **KMY**
 Issue Date: **04/06/2020**
 Project Number: **027470**

FAIRFAX ELEMENTARY
3101 N 10TH ST
KANSAS CITY, KS 66101
CONSTRUCTION DOCUMENTS
EROSION CONTROL PLAN

C4.2

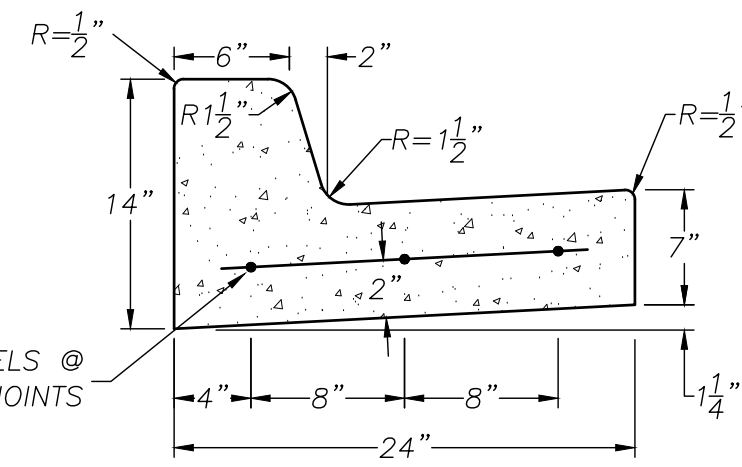


TYPE #1

TYPE #2

CURB JOINT NOTES:

- TYPE #1 JOINTS MAY BE CONSTRUCTED WITH A GROOVING TOOL OR WITH A CONCRETE SAW AFTER THE CONCRETE IS SET.
- TYPE #1 JOINTS SHALL BE PLACED AT 15' OC MAXIMUM.
- TYPE #2 JOINTS SHALL BE PLACED AT ALL PC'S, PT'S AND TRANSITIONS, AND WHERE NEW CURB OR PAVEMENT TIES INTO EXISTING CURB.
- TYPE #2 SMOOTH BARS SHALL BE 24" LONG.
- AN ISOLATION JOINT SHALL BE PLACED BETWEEN FACE OF GUTTER AND CONCRETE PAVEMENT.



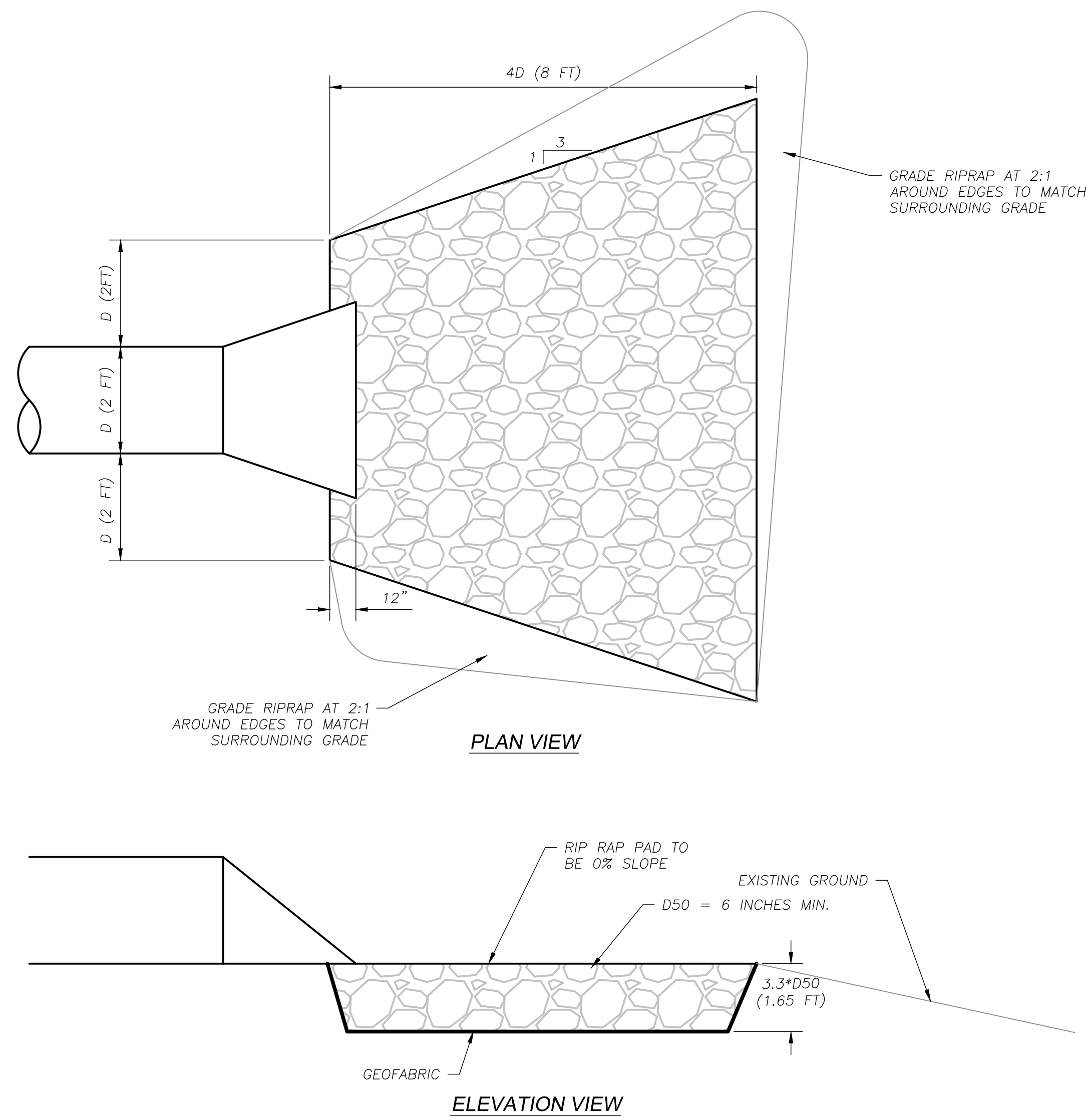
CURB NOTES:

- ALL CONCRETE SHALL CONFORM TO KCMMB 4K MIX.
- AB-3 MAY BE USED AS A LEVELING COURSE TO BRING SUBGRADE TO PROPER ELEVATION (6" max.).
- DURING DRY CURB TRANSITIONS, WATER SHALL FLOW FROM THE GUTTER TO THE LIP @ 0.5% min. SLOPE.

001

Concrete Curb & Gutter

Not to Scale



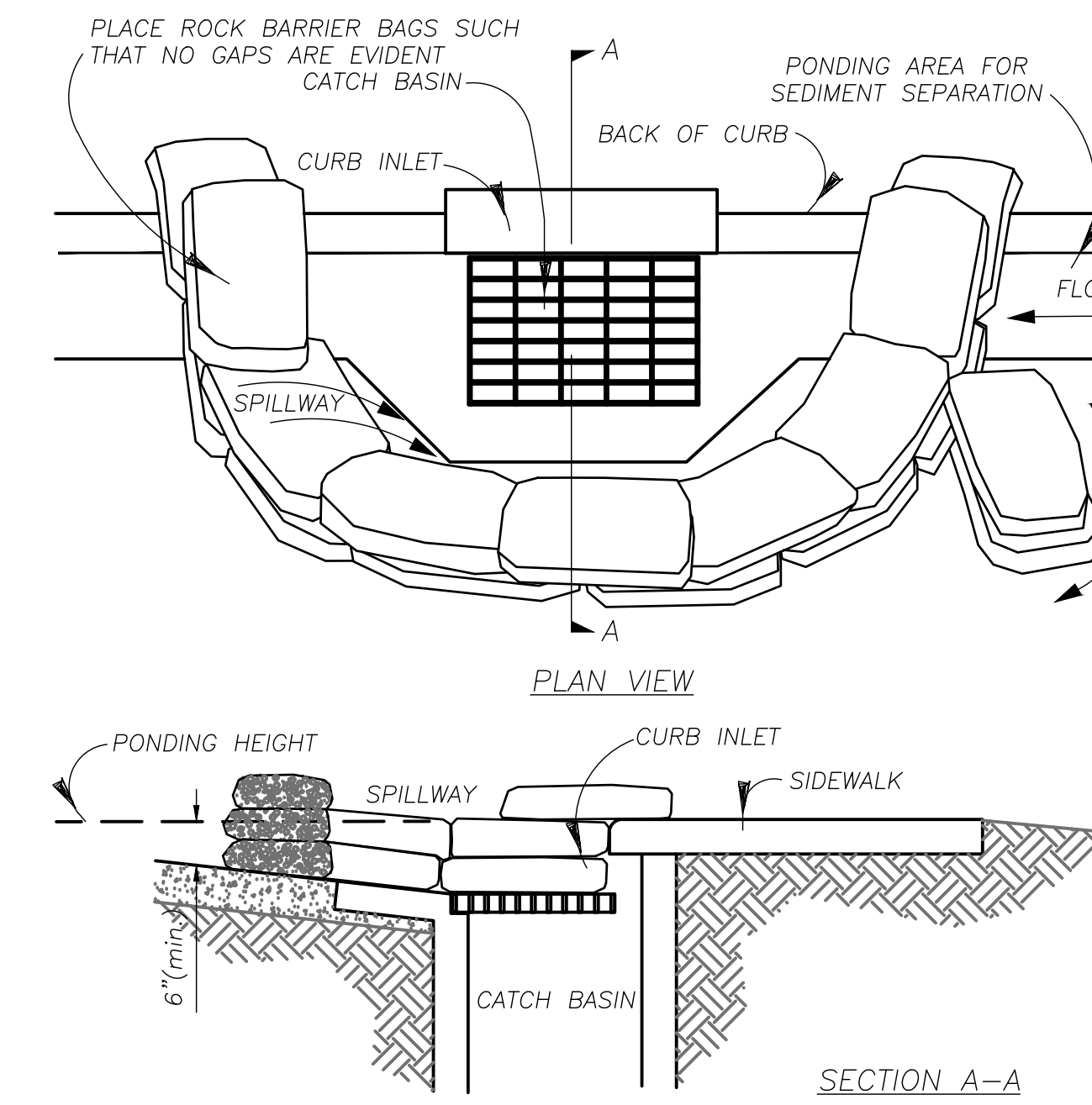
PLAN VIEW

ELEVATION VIEW

002

Rip Rap Protection

Not to Scale



PLAN VIEW

SECTION A-A

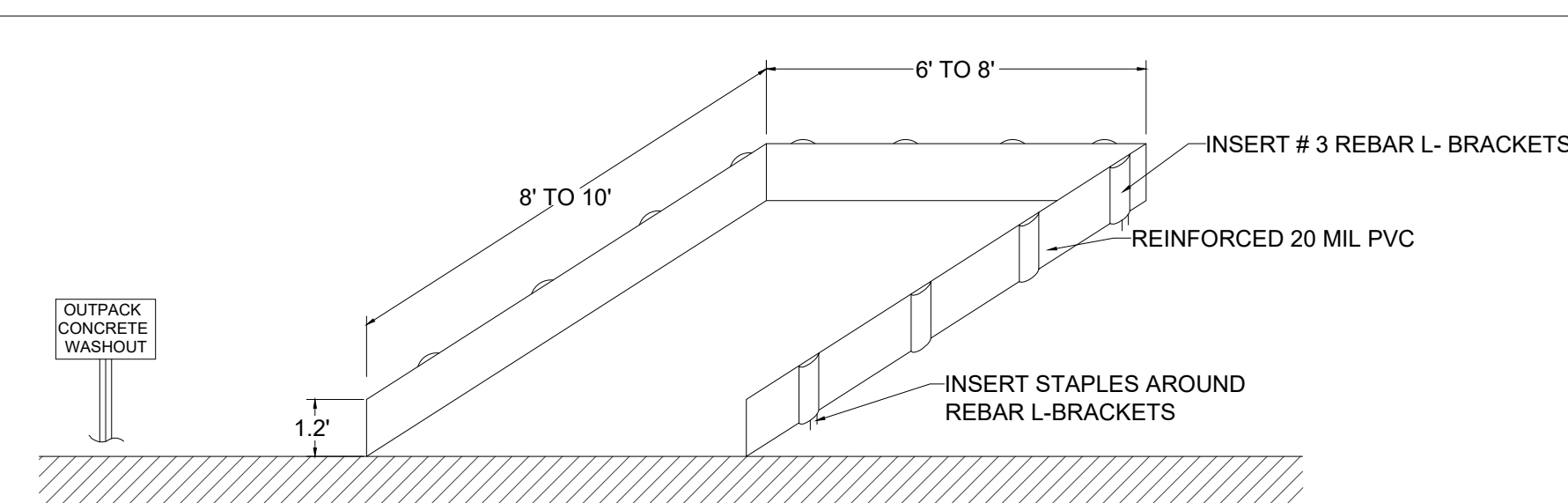
NOTES:

- PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
- BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
- LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
- INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

003

Curb Inlet Protection

Not to Scale



NOTES:

- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THIS PROJECT.
- SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
- THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
- WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
- DO NOT DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
- LOCATE WASHOUT AREA AT LEAST 50' (15 METERS) FROM STORM DRAINS, OPEN DITCHES, OR WATERBODIES.
- WASH OUT ONLY WASHOUT NON-HAZARDOUS WASTES INTO THE OUTPACK WASHOUT.



001

Concrete Washout

Not to Scale

App.	
By	
Description	
Rev.	Date
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CONSTRUCTION DOCUMENTS
CIVIL DETAILS

Design: KMY | Drawn: KMY
 Checked: KMY
 Issue Date: 04/06/2020
 Project Number: 027470

C5.0

GENERAL WALL NOTES

1.0 DESIGN

- A. SITE DATA, BUILDING LOCATION, AND RETAINING WALL LOCATION TAKEN FROM PLANS PREPARED BY BHC RHODES.
- B. NO GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT PER THE DIRECTION OF THE OWNER.
- C. SOIL LOADINGS CONSIDERED IN THIS DESIGN AND CALCULATIONS ARE BASED ON THE FOLLOWING PARAMETERS:

	RICTION ANGLE	COHESION	UNIT WEIGHT	SOIL TYPE
REINFORCED SOIL	34°	0 PSF	115 PCF	ASTM C33 #57 ROCK
RETAINED SOIL	24°	0 PSF	120 PCF	NATIVE SILTY CLAY
LEVELING PAD	34°	0 PSF	135 PCF	WELL GRADED ROCK
FOUNDATION SOIL	24°	0 PSF	120 PCF	NATIVE SILTY CLAY

- D. ACTUAL SOIL PARAMETERS MUST MEET OR EXCEED THESE LISTED CONDITIONS TO BE USED IN WALL CONSTRUCTION.
- E. WALL ROCK WILL EXTEND THE LENGTH OF GRID, WITH WEEP HOLES AT THE FACE OF THE WALL. HYDROSTATIC LOADING IS NOT CONSIDERED IN THIS ANALYSIS.
- F. ANALYSIS ASSUMES FILL PLACEMENT AND COMPACTION PER GEOTECHNICAL REPORT.
- G. LIVE LOAD SURCHARGE: 50 -250 PSF OFFSET: 5 - 15 FT
- H. QUALITY ASSURANCE REQUIREMENTS:
 - 1. A QUALIFIED ENGINEER OR TECHNICIAN SHALL OBSERVE THE WALL CONSTRUCTION CONTINUOUSLY TO VERIFY FIELD AND SITE SOIL CONDITIONS ARE IN COMPLIANCE WITH THESE PLANS. WORK NOT IN COMPLIANCE SHALL BE CORRECTED AT THE INSTALLER'S EXPENSE. THIS MAY REQUIRE REMOVAL AND REPLACEMENT OF NON-COMPLIANT WORK.
 - 2. LABORATORY TESTING CONSISTING OF GRADATIONS, PROCTOR TESTING SHALL BE PERFORMED ON EACH SOURCE MATERIAL TO CONFIRM MATERIAL COMPLIANCE. LABORATORY TEST RESULTS SHALL BE SUBMITTED TO THE PROJECT TEAM.
 - 3. THE SPECIAL INSPECTION SHALL OBSERVE THAT THE FOUNDATION SOILS ARE PREPARED TO SAFELY SUPPORT 1500 PSF ALLOWABLE BEARING PRESSURE APPLIED FROM THE WALL WITHOUT FAILURE OR EXCESSIVE SETTLEMENT.

2.0 MATERIALS

2.1 MODULAR WALL UNITS

- A. WALL UNITS SHALL BE VERSA-LOK, SQUARE FOOT UNITS PRODUCED BY A LICENSED MANUFACTURER.
- B. WALL UNITS SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI IN ACCORDANCE WITH ASTM C1372. THE CONCRETE UNITS SHALL HAVE ADEQUATE FREEZE-THAW PROTECTION WITH AN AVERAGE ABSORPTION RATE IN ACCORDANCE WITH ASTM C1372 OR AN AVERAGE ABSORPTION RATE OF 7.5 LB/FT3.
- C. EXTERIOR DIMENSIONS SHALL BE UNIFORM AND CONSISTENT. MAXIMUM DIMENSIONAL DEVIATIONS ON THE HEIGHT OF ANY TWO UNITS SHALL BE 0.125 IN.
- D. WALL UNITS SHALL PROVIDE A MINIMUM OF 115 LBS TOTAL WEIGHT PER SQUARE FOOT OF WALL FACE AREA. FILL CONTAINED WITHIN THE UNITS MAY BE CONSIDERED 80% EFFECTIVE WEIGHT.

2.2 REINFORCED SOIL

- A. CRUSHED STONE (ASTM C33 #57 STONE)

2.3 RETAINED SOIL

- A. NATIVE SILTY CLAY

2.4 LEVELING PAD

- A. KDOT AB3

2.5 FOUNDATION SOIL

- A. NATIVE SILTY CLAY

2.6 WALL ROCK

- A. CRUSHED STONE (ASTM C33 #57 STONE)

2.7 GEOGRID

- A. VERSA-GRID VG 3.0 SOIL REINFORCEMENT GEOGRID

2.8 GEOTEXTILE FABRIC

- A. PROPEX GEOTEX 401 GEOTEXTILE

2.9 WALL DRAIN PIPE

- A. 4-INCH PERFORATED DRAIN PIPE SHALL EXTEND THE LENGTH OF THE WALL AND TEE INTO WEEP HOLES EVERY 40' ON-CENTER.

3.0 WALL CONSTRUCTION

3.1 EXCAVATION

- A. CONTRACTOR SHALL EXCAVATE AND PREPARE FOUNDATION SOILS PER PLANS.
- B. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION. REPORT ALL POSSIBLE CONFLICTS TO ENGINEER PRIOR TO INSTALLATION.
- C. CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES ARE PROTECTED FROM THE EFFECTS OF WALL EXCAVATION.

3.2 FOUNDATION SOIL PREPARATION

- A. ONSITE GEOTECHNICAL REPRESENTATIVE/SPECIAL INSPECTOR SHALL INSPECT FOUNDATION SOIL. NATIVE SILT CLAY FOUNDATION SHALL HAVE A MINIMUM BEARING CAPACITY OF 1500 PSF AS MEASURED BY POCKET PENETROMETER.
- B. FOUNDATION SOIL SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS ASSUMED DESIGN STRENGTH. SOIL NOT MEETING THE REQUIRED STRENGTH SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL.
- C. OVER-EXCAVATED AREAS SHALL BE FILLED WITH COMPACTED BACKFILL MATERIAL APPROVED BY THE GEOTECHNICAL REPRESENTATIVE/SPECIAL INSPECTOR.

3.3 BASE LEVELING PAD

- A. A 2-FT-WIDE BY 10-INCH-THICK (AFTER COMPACTION MEASUREMENT) BASE LEVELING PAD SHALL BE CONSTRUCTED USING KDOT AB-3 COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR.
- B. TOP OF BASE LEVELING PAD SHALL BE LOCATED TO ALLOW BOTTOM WALL UNITS TO BE BURIED TO PROPER DEPTHS AS PER ALL HEIGHTS AND SPECIFICATIONS.

3.4 UNIT INSTALLATION

- A. THE FIRST COURSE OF WALL UNITS SHALL BE PLACED ON THE PREPARED BASE WITH THE RAISED LIP FACING UP AND OUT AND THE FRONT EDGES TIGHT TOGETHER. THE UNITS SHALL BE CHECKED FOR LEVEL AND ALIGNMENT AS THEY ARE PLACED.
- B. ENSURE THAT UNITS ARE IN FULL CONTACT WITH BASE. PROPER CARE SHALL BE TAKEN TO DEVELOP STRAIGHT LINES AND SMOOTH CURVES ON BASE COURSE PER WALL LAYOUT.
- C. FILL ALL CORES AND CAVITIES WITH WALL ROCK. WALL ROCK SHALL EXTEND BEHIND THE BLOCKS AS SHOWN ON TYPICAL DETAILS. BLOCKS SHALL BE LEVEL AND ALIGNED. USE PLATE COMPACTOR TO COMPACT THE WALL ROCK PLACED WITHIN THE BLOCKS AND IN CONSOLIDATION ZONE.
- D. THE CONSOLIDATION ZONE SHALL BE DEFINED AS 3 FT BEHIND THE WALL. COMPACTION WITHIN THE CONSOLIDATION ZONE SHALL BE ACCOMPLISHED BY USING A HAND OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE COMPACTOR DIRECTLY ON THE BLOCK AND THEN COMPACTING IN PARALLEL PATHS FROM THE WALL FACE UNTIL THE ENTIRE CONSOLIDATION ZONE HAS BEEN COMPACTED. A MINIMUM OF TWO PASSES OF THE PLATE COMPACTOR IS REQUIRED WITH MAXIMUM 4-INCH LOOSE LIFTS. EMPLOY METHODS USING LIGHTWEIGHT COMPACTION EQUIPMENT THAT WILL NOT DISRUPT THE STABILITY OR BATTER OF THE WALL.
- E. POSITION BLOCKS TO BE OFFSET FROM SEAMS OF BLOCK BELOW. PERFECT 'RUNNING BOND' IS NOT ESSENTIAL, BUT A 3-INCH MINIMUM OFFSET IS RECOMMENDED, CHECK EACH BLOCK FOR PROPER ALIGNMENT AND LEVEL.
- F. MINIMUM TOLERANCES:
 - VERTICAL CONTROL: ±1.25 IN. MAX. OVER 10 FT. DISTANCE
 - HORIZONTAL LOCATION CONTROL: STRAIGHT LINES ±1.25 IN. OVER A 10 FT DISTANCE
 - ROTATION (FROM ESTABLISHED PLAN WALL BATTER): 2.0'
 - BULGING: 1.0 IN. OVER A 1 - FT. DISTANCE

3.5 GEOGRID INSTALLATION

- A. INSTALL VERSA-LOK WALL TO DESIGNATED HEIGHT OF FIRST GEOGRID LAYER. BACKFILL AND COMPACT THE WALL ROCK IN LAYERS NOT TO EXCEED 4 IN. LIFTS BEHIND THE WALL TO DEPTH EQUAL TO DESIGNER GRID LENGTH BEFORE GRID IS INSTALLED.
- B. CUT GEOGRID TO DESIGNER EMBEDMENT LENGTH AND PLACE ON TOP OF VERSA-LOK BLOCK SO THE FRONT EDGE OF THE GRID IS ONE INCH BEHIND THE FRONT FACE OF THE WALL SO THAT THE GRID COMPLETELY COVERS THE HOLES AND SLOTS IN THE VERSA-LOK BLOCKS.
- C. LAY GEOGRID AT THE PROPER ELEVATION AND ORIENTATIONS SHOWN ON THE CONSTRUCTION DRAWINGS.
- D. CORRECT ORIENTATION OF THE GEOGRID SHALL BE VERIFIED BY THE CONTRACTOR AND ON-SITE SOILS ENGINEER. STRENGTH DIRECTION IS PERPENDICULAR TO WALL FACE.
- E. PLACE NEXT COURSE OF VERSA-LOK BLOCK ON TOP OF GRID AND FILL BLOCK CORES WITH WALL ROCK TO LOCK IN PLACE. REMOVE SLACK AND FOLDS IN GRID AND STAKE TO HOLD IN PLACE.
- F. ADJACENT SHEETS OF GEOGRID SHALL BE BUTTED AGAINST EACH OTHER AT THE WALL FACE TO ACHIEVE 100 PERCENT COVERAGE, NO OVERLAP OF GRID PERMITTED.
- G. GEOGRID LENGTHS SHALL BE CONTINUOUS, SPLICING PARALLEL TO THE WALL FACE IS NOT ALLOWED.

3.6 FILL PLACEMENT

- A. EACH LIFT OF WALL ROCK SHALL BE SPREAD AND COMPACTED IN SUCH A MANNER THAT MINIMIZES THE DEVELOPMENT OF SLACK OR MOVEMENT OF THE GEOGRID.
- B. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 3 FT BEHIND THE WALL. THIS AREA SHALL BE DEFINED AS THE CONSOLIDATION ZONE. REFER TO 3.4D ABOVE.
- C. WHEN FILL IS PLACED AND COMPACTION CANNOT BE DEFINED IN TERMS OF STANDARD PROCTOR DENSITY, THEN COMPACTION SHALL BE PERFORMED SO THAT NO DEFORMATION IS OBSERVED FROM THE COMPACTION EQUIPMENT.
- D. TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON GEOGRID. A MINIMUM FILL THICKNESS OF 6 INCHES IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF TRACKED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND DAMAGING THE GEOGRID.
- E. RUBBER-TIRED EQUIPMENT MAY PASS OVER THE GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.
- F. THE WALL ROCK SHALL BE COMPACTED TO ACHIEVE 95% STANDARD PROCTOR. COMPACTION TESTS SHALL BE TAKEN FREQUENTLY AND AT LOCATIONS TO ENSURE EACH LIFT IS PROPERLY COMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR ACHIEVING THE SPECIFIED COMPACTION REQUIREMENTS. THE ON-SITE SOILS ENGINEER MAY DIRECT THE CONTRACTOR TO REMOVE, CORRECT, OR AMEND ANY SOIL FOUND NOT IN COMPLIANCE WITH THESE WRITTEN SPECIFICATIONS. IF COMPACTION CANNOT BE DEFINED IN TERMS OF DENSITY, SEE 3.6.C ABOVE.

3.7 DRAINAGE SYSTEM

- A. ALL WALLS SHALL BE CONSTRUCTED WITH WALL ROCK EXTENDING THE LENGTH OF THE GEOGRID.
- B. 4-INCH PERFORATED DRAIN PIPE SHALL EXTEND THE LENGTH OF THE WALL AND TEE INTO WEEP HOLES EVERY 40' ON-CENTER.

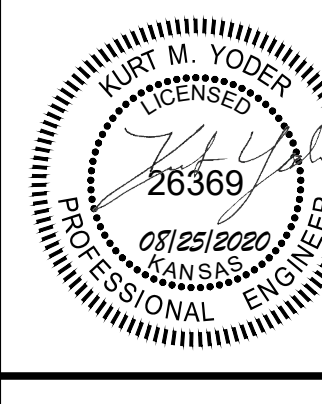
3.8 GLOBAL STABILITY

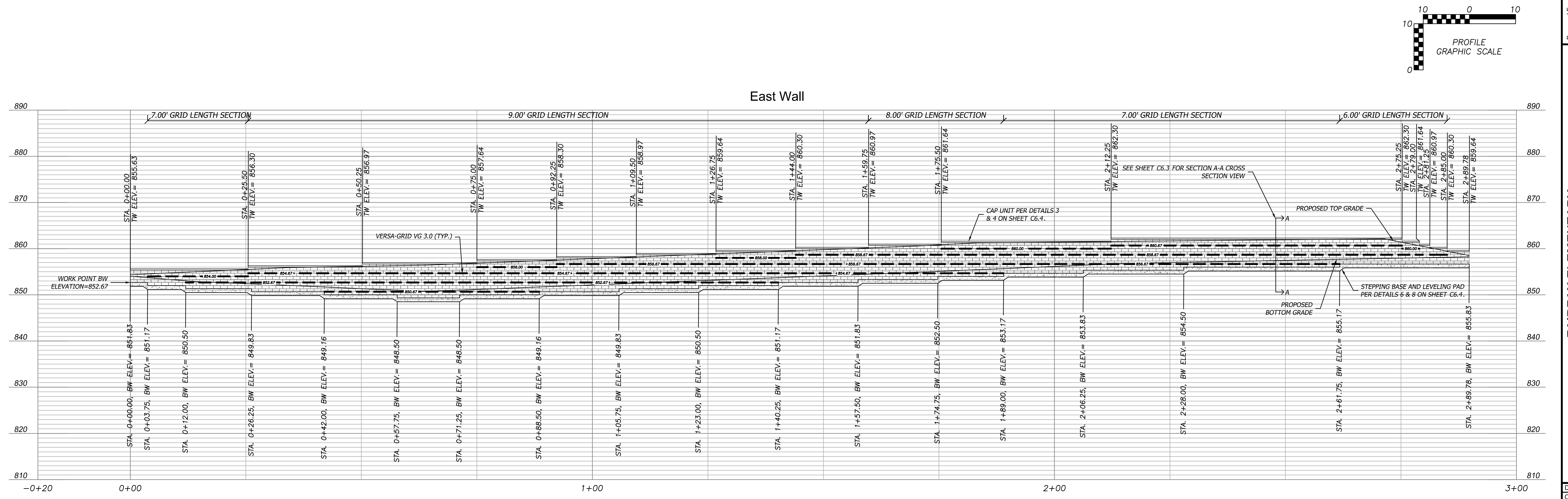
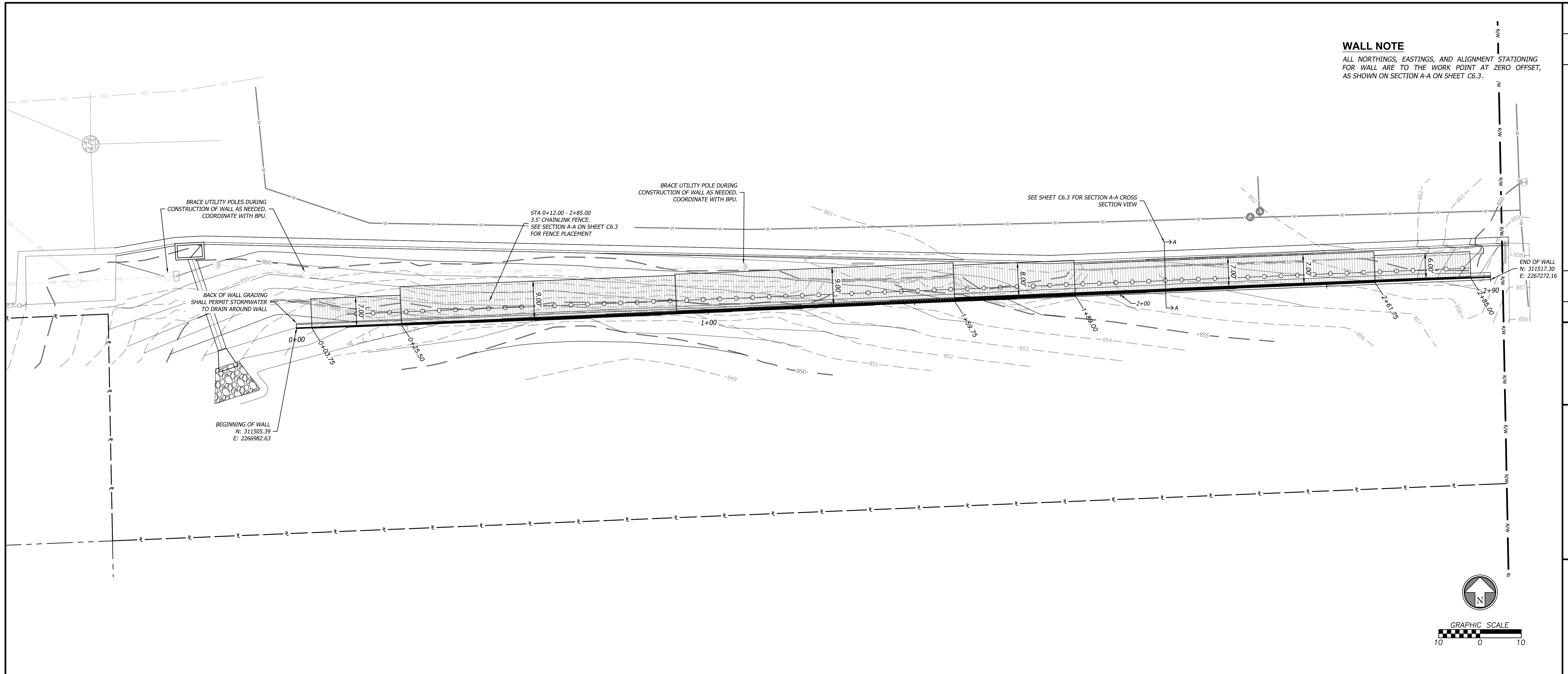
- A. GLOBAL STABILITY CALCULATIONS HAVE NOT BEEN PERFORMED FOR THIS RETAINING WALL STRUCTURE.

<u>TABLE 1</u>			
<u>STRUCTURAL INSPECTION/SPECIAL INSPECTION PROGRAM</u>			
<u>ITEM</u>	<u>CONT.</u>	<u>PERIODIC</u>	<u>ITEM</u>
GRADING, EXCAVATION, & FILL	X		REF NOTE 1
FINAL FOUNDATION PREPARATION	X		REF NOTE 1

PROGRAM FOOTNOTES:

- 1. SPECIAL INSTRUCTIONS/CMT TESTING AGENT PROVIDED BY ENGINEER.
- 2. THE ITEMS CHECKED WITH AN 'X' SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ENGINEER AND CONTRACTOR. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE WALL DESIGN ENGINEER.

			App.
			By
			Date
			Rev.
			
BHC RHODES Civil Engineering - Surveying - Utilities 7101 College Blvd., Suite 400 Overland Park, Kansas 66210 P: (913) 663-1900 F: (913) 663-1633 <small>BHC Rhodes is an Equal Opportunity Employer</small>			
Prepared For: KANSAS CITY KANSAS PUBLIC SCHOOLS KANSAS CITY, KS 66104 (913) 627-3850	FAIRFAX ELEMENTARY 3101 N 10TH ST KANSAS CITY, KS 66101 CONSTRUCTION DOCUMENTS WALL GENERAL NOTES		
Design: KMY	Drawn: KMY		
Checked: KMY			
Issue Date: 04/06/2020			
Project Number: 027470			
C6.1			



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Description	
Date	
Rev.	
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Issue Date: 04/06/2020	
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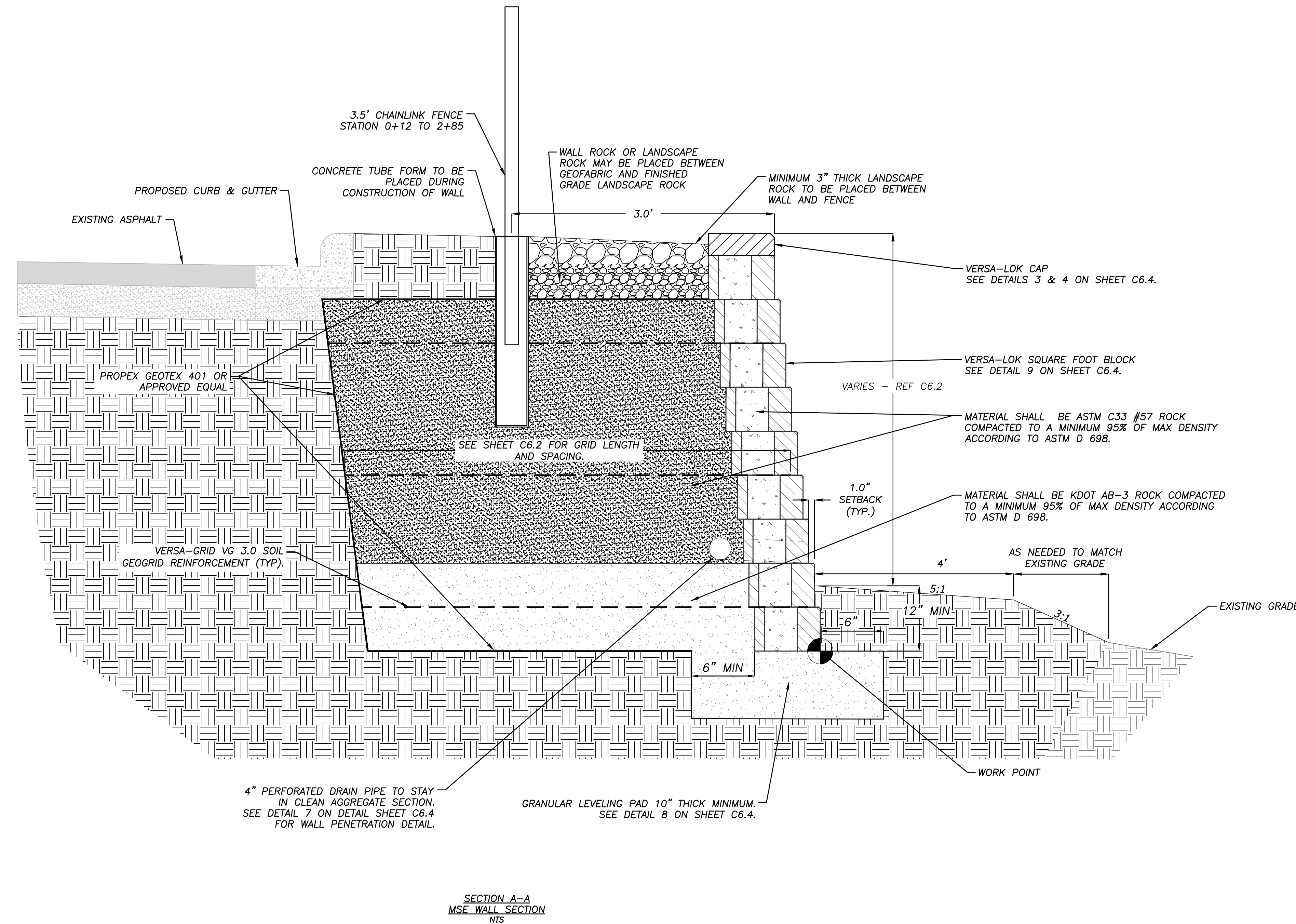
Aug 25, 2020 - 8:08am Plotted By: kurt.yoder V:\027470\001-Fairfax_Elem\04-DWG\Eng\Sheet\C6a\027470.001-SHNS-WALL_PWP.dwg Layout: Plan & Profile

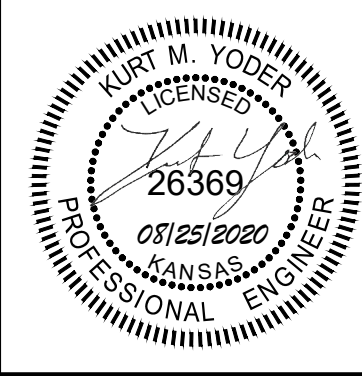
WALL AREA FOUNDATION REQUIREMENTS:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PROJECT.
- WALL AREA FOUNDATION AND SUBGRADE PAD SHALL MEET OR EXCEED THE REQUIREMENTS OF THE SPECIFICATION EXCEPT AS HEREIN NOTED ON THESE CONSTRUCTION DRAWINGS.
- REMOVE SURFACE VEGETATION, TOPSOIL, ROOT SYSTEMS, ROCK FRAGMENTS LARGER THAN 6", ORGANIC MATERIAL, EXISTING UNSUITABLE FILL, AND SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE WALL AREA.
- AREAS ENCOUNTERED OF SOFT SUBGRADE SHOULD BE REMEDIATED AS DIRECTED BY GEOTECHNICAL ENGINEER/SPECIAL INSPECTOR.
- AREAS EXPOSED BY EXCAVATION OR STRIPPING AND ON WHICH THE WALL SUBGRADE PREPARATIONS ARE TO BE PERFORMED SHALL BE SCARIFIED TO A MINIMUM OF 12 INCHES AND COMPACTED TO MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D 698. THE CONTRACTOR SHALL COORDINATE WITH THE TESTING LABORATORY TO CONDUCT DENSITY TESTS DURING FILL PLACEMENT AND/OR SOIL MODIFICATION AND MAKE ANY OTHER OBSERVATIONS NECESSARY TO DETERMINE THAT THE REQUIREMENT OF THE PLANS AND SPECIFICATIONS ARE BEING ACHIEVED. EXCAVATE AND RECOMPACT AREAS OF FAILURE OR UNSUITABLE SOILS AS SPECIFIED HEREIN. CONTINUAL FAILURE AREAS SHALL BE STABILIZED AND REPORTED TO THE ENGINEER.
- FILL MATERIALS SHALL BE FREE OF ALL ORGANIC AND OTHER DELETERIOUS MATERIALS. ONLY FILL SOILS HAVING A LIQUID LIMIT LESS THAN 50 AND PLASTICITY INDEX LESS THAN 20 SHALL BE USED IN THE WALL FOUNDATION AREA. PLACE FILL MATERIALS IN THE WALL FOUNDATION AREA IN LIFTS OF LAYERS NOT TO EXCEED 8-INCHES LOOSE MEASURED AND COMPACTED TO A MINIMUM DENSITY OF 95 PERCENT OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D 698 AT OPTIMUM MOISTURE CONTENT $\pm 2\%$.

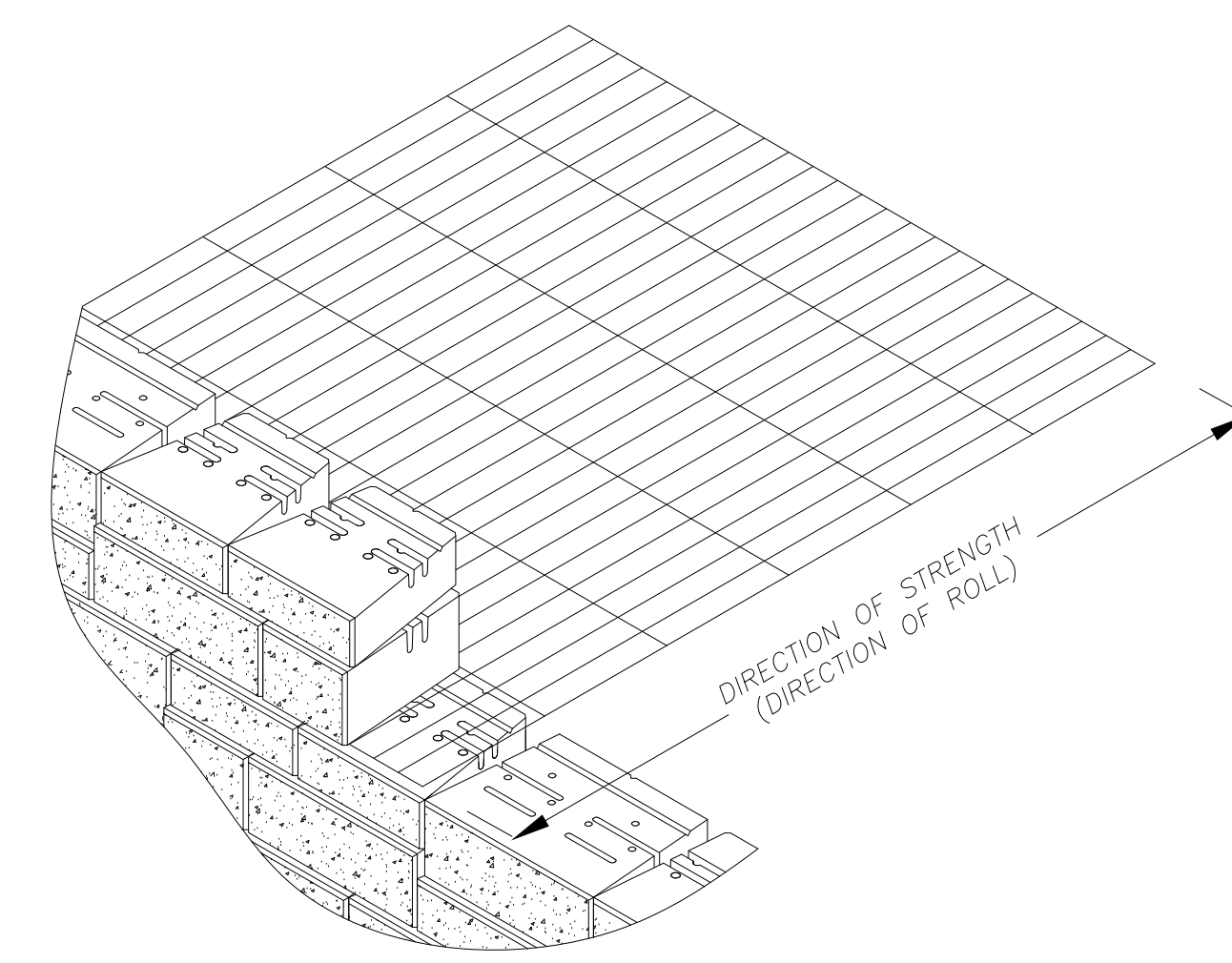
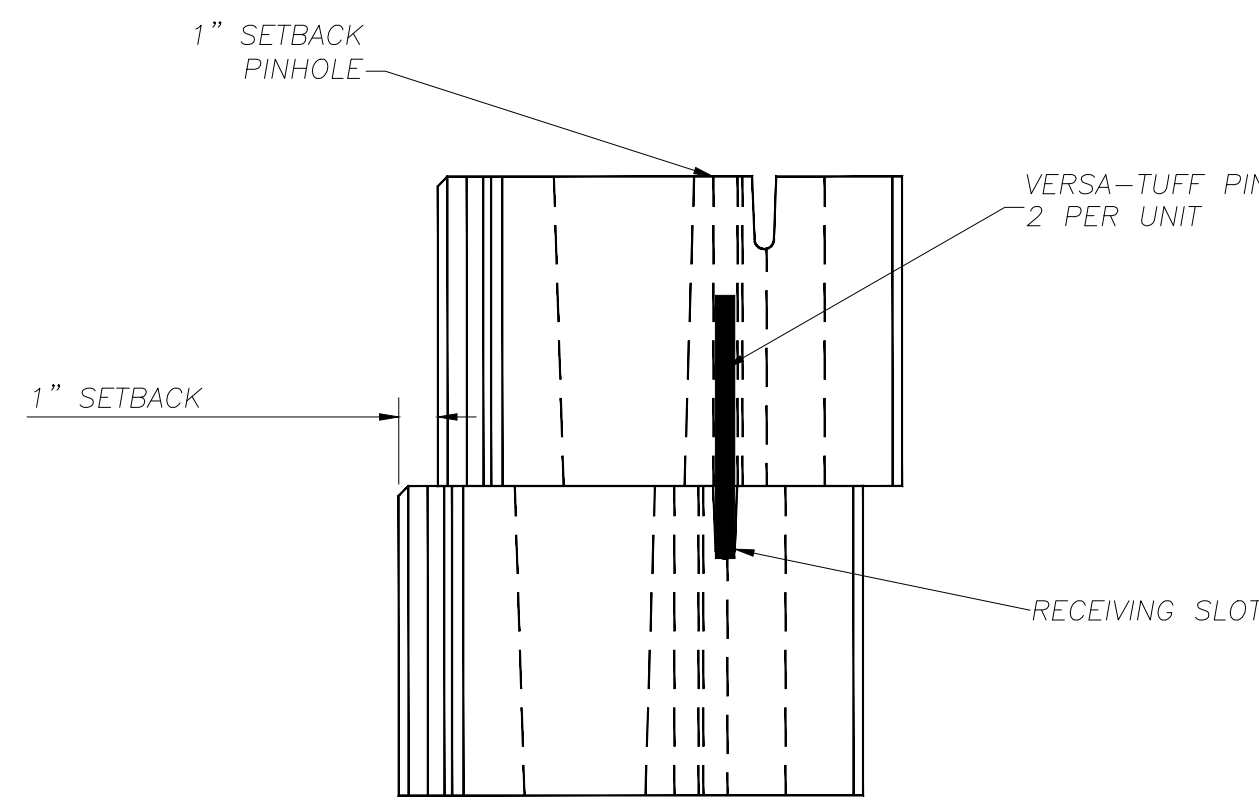
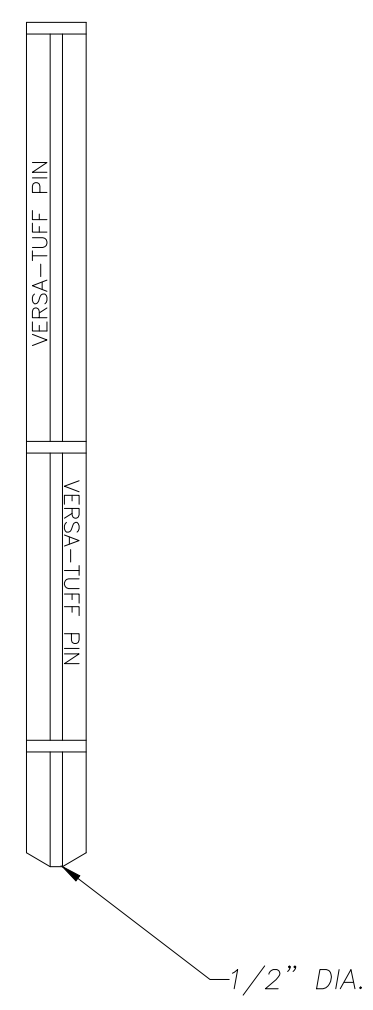
WORK POINT CALCULATION TABLE

STATION BEGIN	STATION END	BASELINE ELEVATION	WORK POINT = TOP OF FOOTING ELEVATION	WORK PT OFFSET FROM ALIGNMENT (INCHES)	LEFT OR RIGHT
0+00	0+03.75	852.67	852.67	0	N/A
0+03.75	0+12.00	852.67	852.00	1.00	RIGHT
0+12.00	0+26.25	852.67	851.33	2.00	RIGHT
0+26.25	0+42.00	852.67	850.67	3.00	RIGHT
0+42.00	0+57.75	852.67	850.00	4.00	RIGHT
0+57.75	0+71.25	852.67	849.33	5.00	RIGHT
0+71.25	0+88.50	852.67	850.00	4.00	LEFT
0+88.50	1+05.75	852.67	850.67	3.00	LEFT
1+05.75	1+23.00	852.67	851.33	2.00	LEFT
1+23.00	1+40.25	852.67	852.00	1.00	LEFT
1+40.25	1+57.50	852.67	852.67	0.00	LEFT
1+57.50	1+74.75	852.67	853.33	-1.00	LEFT
1+74.75	1+89.00	852.67	854.00	-2.00	LEFT
1+89.00	2+06.25	852.67	854.67	-3.00	LEFT
2+06.25	2+28.00	852.67	855.33	-4.00	LEFT
2+28.00	2+61.75	852.67	856.00	-5.00	LEFT
2+61.75	2+89.78	852.67	856.67	-6.00	LEFT



	<p>BHC RHODES Civil Engineering - Surveying - Utilities 7101 College Blvd., Suite 400 Overland Park, Kansas 66210 P: (913) 663-1900 F: (913) 663-1633 <small>BHC Rhodes is a member of Brueggemann & Company, PA</small></p>
<p>Prepared For: KANSAS CITY KANSAS PUBLIC SCHOOLS KANSAS CITY, KS 66104</p>	<p>(913) 627-3850</p>
<p>FAIRFAX ELEMENTARY 3101 N 10TH ST KANSAS CITY, KS 66101 CONSTRUCTION DOCUMENTS WALL SECTION A-A</p>	
<p>Design: KMY Drawn: KMY Checked: KMY Issue Date: 04/06/2020 Project Number: 027470</p>	<p style="font-size: 2em; font-weight: bold;">C6.3</p>

V:\027470\00_01-Fairfax Elem\04-DWG\Eng\Sheet\CDs\027470\00_01-SHNS-WALL DTLS.dwg Layout Section A-A
 Aug 25, 2020 - 8:12am Plotted By: kurt.yoder



NOTE:
 1 FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS
 2 GEOGRID LENGTH AND ELEVATION - SEE PROFILE

GEOSYNTHETIC INSTALLATION DETAIL

DESIGN OF THE SRW SYSTEM WAS BASED ON THE FOLLOWING SOIL PARAMETERS:

WALL SEGMENT (DRAINED CONDITIONS)	FRICTION ANGLE	COHESION	UNIT WEIGHT
REINFORCED BACKFILL	34.0°	0 PSF	115 PCF
RETAINED BACKFILL*	24.0°	0 PSF	120 PCF
FOUNDATION: NATIVE CLAY	24.0°	0 PSF	120 PCF
LEVELING PAD	34.0°	0 PSF	135 PCF

DESIGN LOADS:

LIVE LOAD SURCHARGE = 50 - 250 PSF
 BACKSLOPE = 6'-18" BEHIND WALLS

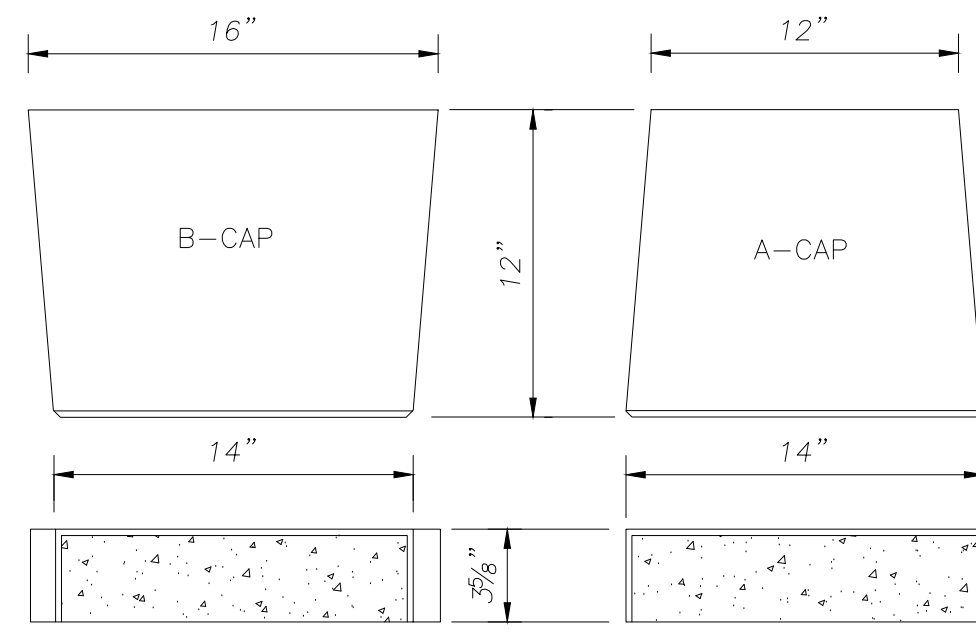
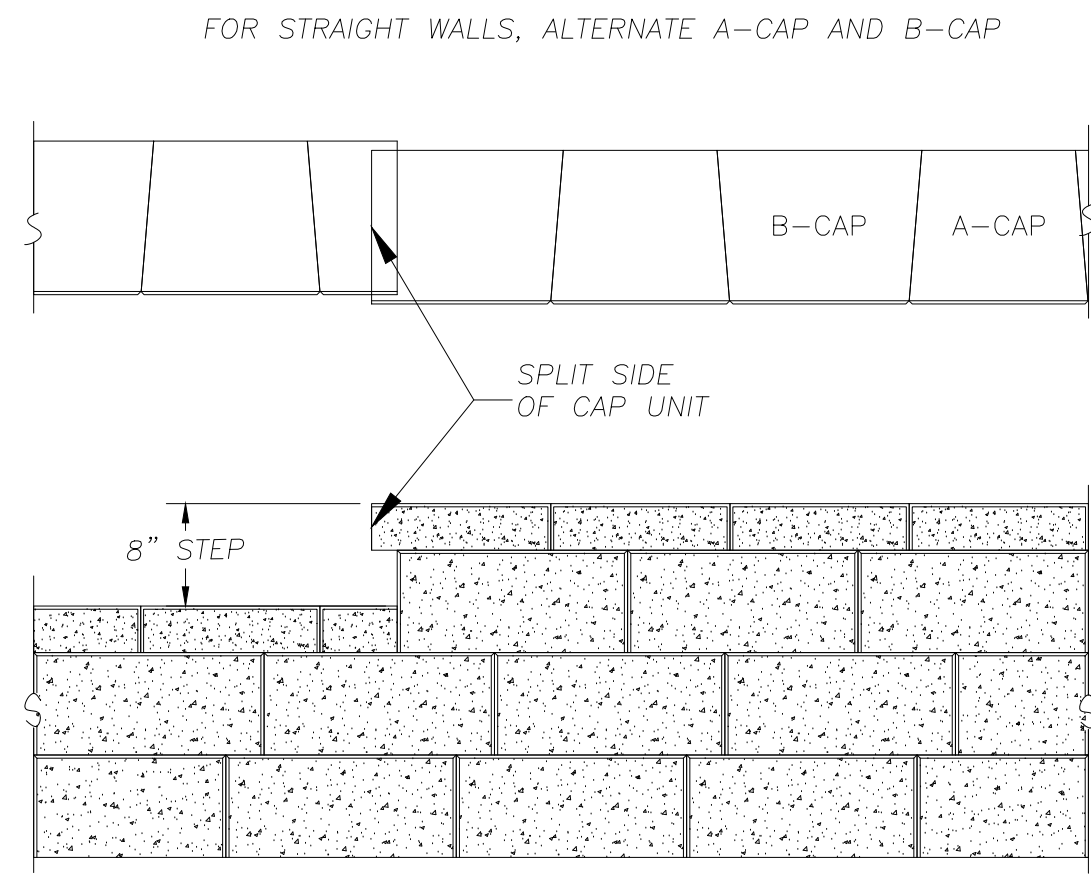
DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE

1 VERSA-TUFF PIN

NTS SN: N/A

2 STANDARD PINNING DETAIL

NTS SN: N/A



3 CAPPING DETAIL - PROFILE

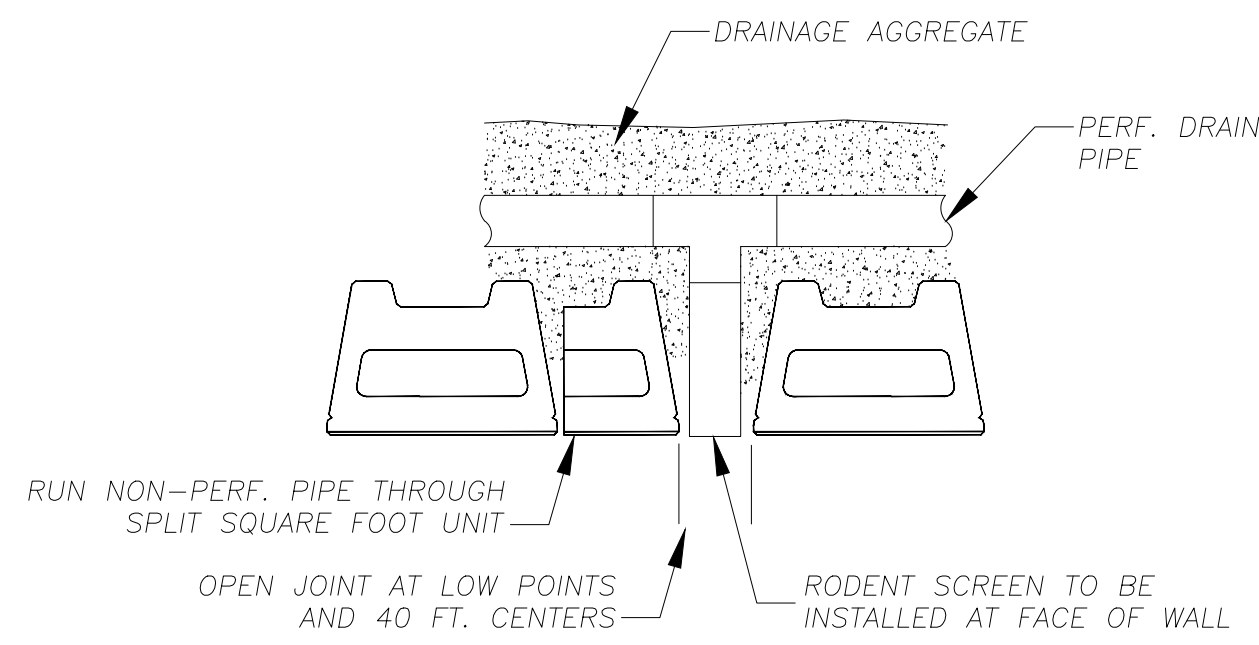
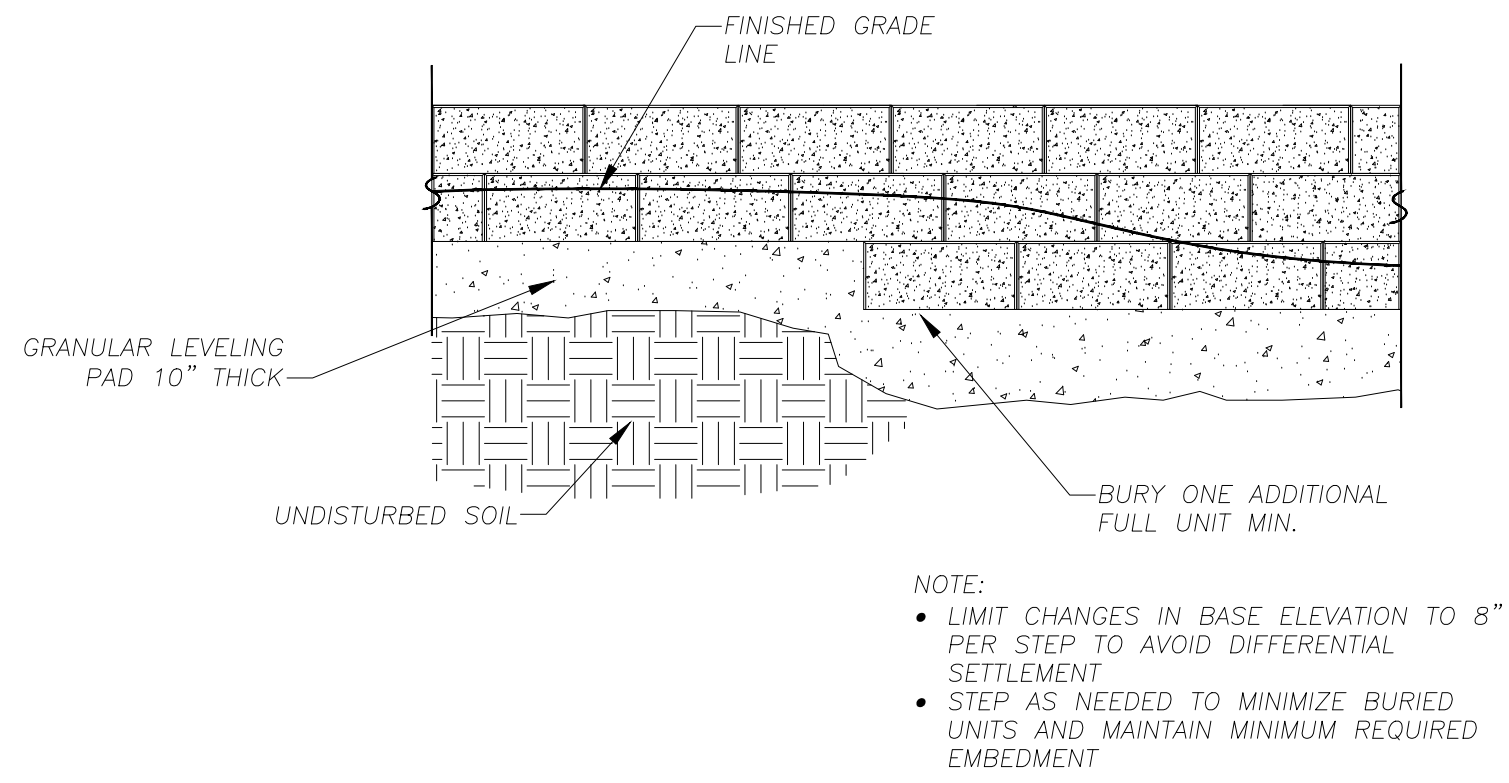
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4 VERSA-LOK CAP UNITS

NTS SN: N/A

5 GEOSYNTHETIC INSTALLATION DETAIL

SN:

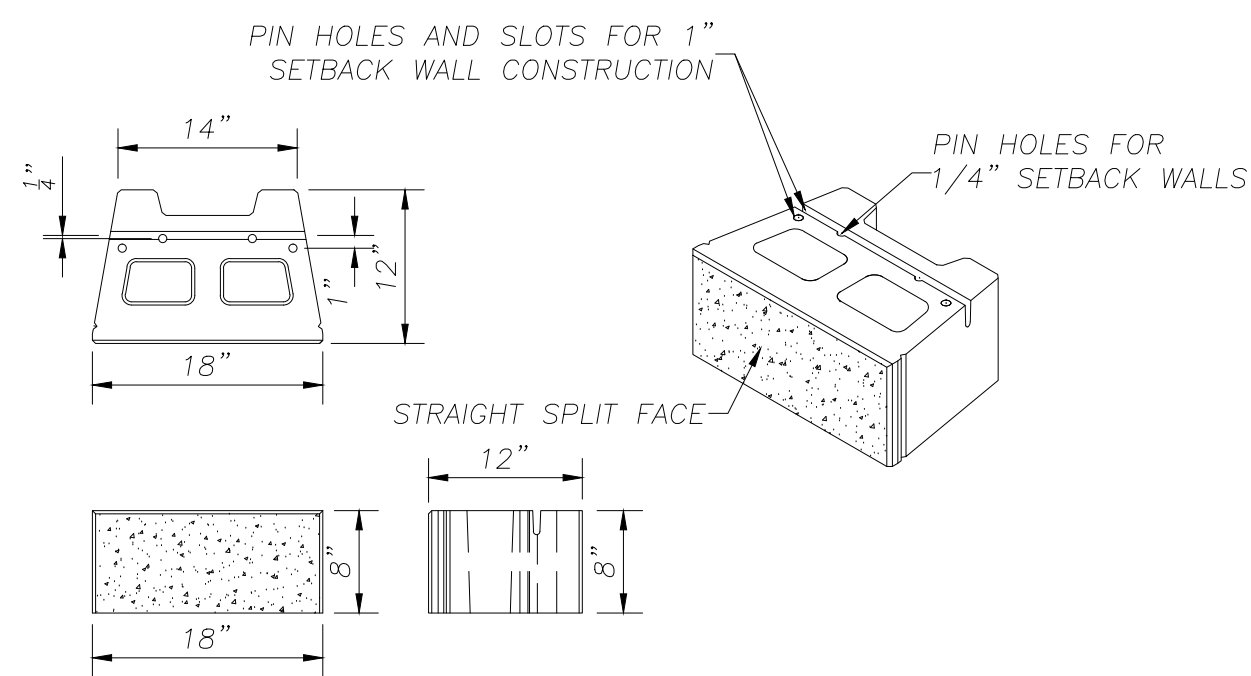
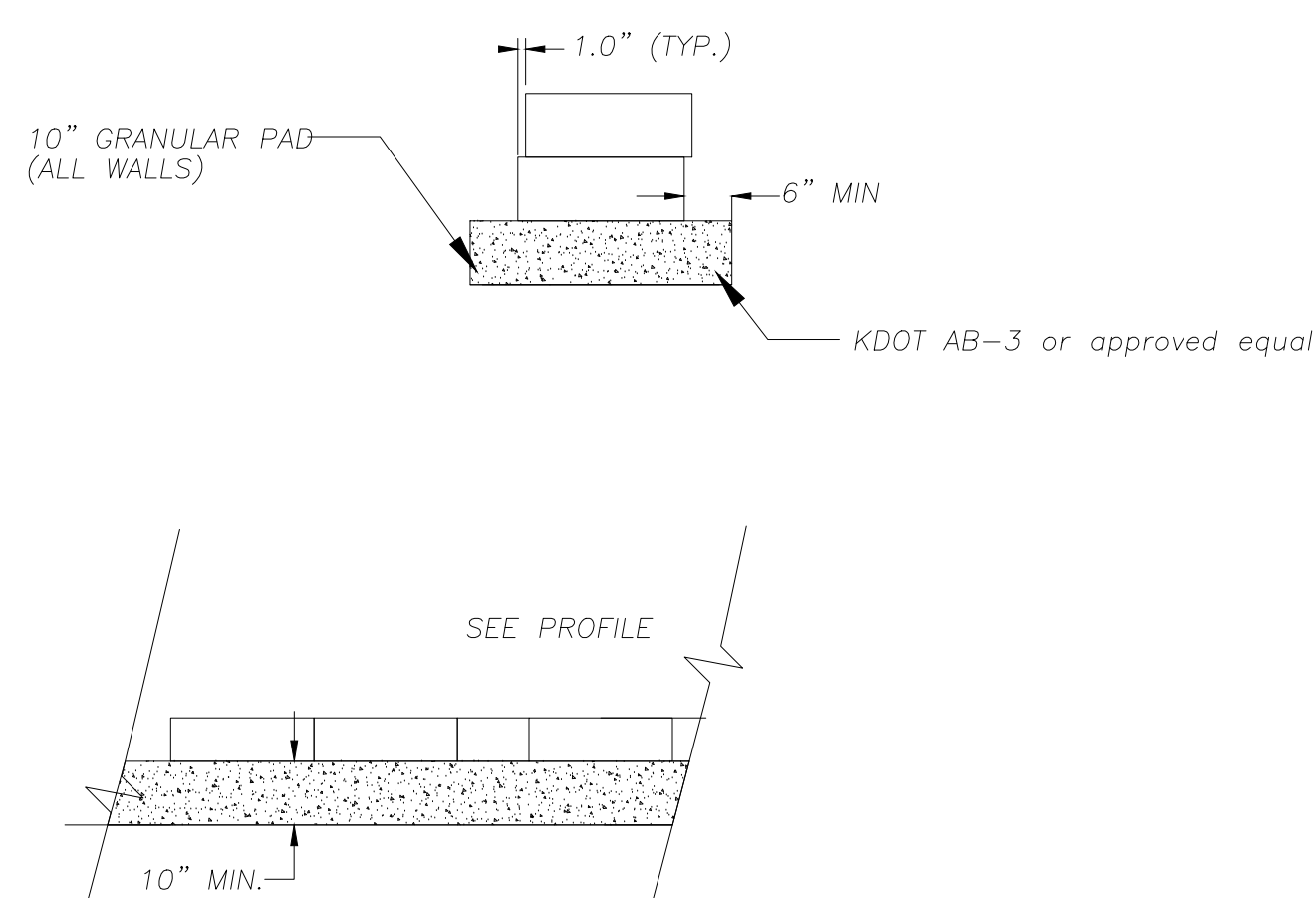


6 STEPPING BASE

NTS SN:

7 DRAIN DETAIL

NTS SN: N/A



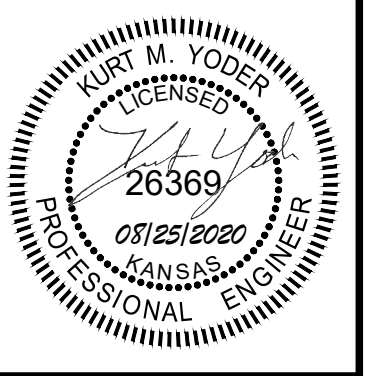
8 LEVELING PAD DETAILS

NTS SN: N/A

9 VERSA-LOK SQUARE FOOT UNIT

NTS SN: N/A

Rev.	Date	Description	By	App.



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C6.4