PARKWAY SCHOOLS

bond architects

DATE: 2026-08-25

ADDENDUM NO: Addendum One

PROJECT NO: PN# 432501B

PROJECT DESCRIPTION: WEM COOLING TOWER & CHILLER REPLACEMENT AT WEST MIDDLE SCHOOL

This Addendum is hereby made part of the Contract Documents of the above named Project. It supplements and modifies them as follows:

General:

1. **See attached Pre-Bid Meeting Minutes**
2. **See attached Pre-Bid Meeting Sign-In Sheet**
3. **See attached Parkway West Middle School Chiller Plant - Omnia Proposal 07-13-2026 – redacted**
4. **Revised ADDM #1 Drawings**

Drawings:

1. Replace entirely Drawing 0.0, COVER SHEET with the attached new Drawing 0.0, COVER SHEET marked Revision 1 ADDM 1.
   (To add new SHEET C4.1 SANITARY LATERAL LINE to the index.

2. Replace entirely Drawing C1.0, COVER SHEET with the attached new Drawing C1.0, COVER SHEET marked Revision 1, ADDM 1.
   (To add Sheet C4.1 "SANITARY LATERAL PLAN" to INDEX, add STORM WATER MANAGEMENT NOTE, and add MSD Project # and base map info.)

3. Replace entirely Drawing C2.0, EXISTING OVERALL CONDITIONS with the attached new C2.0, EXISTING OVERALL CONDITIONS marked Revision 1, ADDM 1.
   (To show additional Area of Improvements for installation of sanitary lateral line and relocated general notes.)

4. Replace entirely Drawing C3.0, DEMOLITION AND SITE PLAN with the attached new C3.0, DEMOLITION AND SITE PLAN marked Revision 1, ADDM 1.
   (To show revisions for installation of sanitary lateral line.)

5. Replace entirely Drawing C4.0, UTILITY & GRADING PLAN with the attached new C4.0, UTILITY & GRADING PLAN marked Revision 1, ADDM 1.
   (To show revisions for installation of sanitary lateral line and inclusion of existing connection and

limits of disturbance notes).

6. Add the attached new Drawing C4.1, SANITARY LATERAL PLAN.
(To show added Sanitary Lateral Line.)

7. Replace entirely Drawing C5.0, SITE DETAILS with the attached new C5.0, SITE DETAILS marked Revision 1, ADDM 1.
(To include new cleanout detail and detail drawings note).

8. Replace entirely Drawing C6.0, STORMWATER POLLUTION PREVENTION PLAN with the attached new C6.0, STORMWATER POLLUTION PREVENTION PLAN marked Revision 1, ADDM 1.
(To show revisions and new SWPP items for installation of sanitary lateral line).

9. Replace entirely Drawing C7.0, INLET DRAINAGE AREA MAP with the attached new C7.0, INLET DRAINAGE AREA MAP marked Revision 1, ADDM 1.
(To update land area disturbed value).

10. Replace entirely Drawing C7.1, PRE-POST DRAINAGE AREA MAP with the attached new C7.1, PRE-POST DRAINAGE AREA MAP marked Revision 1, ADDM 1.
(To update pre/post runoff calculations).

11. Replace entirely Drawing A0.1, CODE SHEET with the attached new Drawing A0.1, CODE SHEET marked Revision 1, ADDM 1.
(To revise GENERAL SCOPE OF WORK to add "INSTALLATION OF SANITARY LATERAL" and "ANY ASBESTOS ABATEMENT AS REQUIRED FOR IMPLEMENTATION OF THE ABOVE WORK (TO BE PERFORMED BY OWNER'S ABATEMENT CONTRACTOR.)

12. Replace entirely Drawing S1.1, GENERAL NOTES with the attached new Drawing S1.1, GENERAL NOTES marked Revision REV-2 ADDM 1.
(To show revised Spectral Response Accelerations: SS=0.48g, s1=0.18g per code)

13. Replace entirely Drawing M102 MECHANICAL YARD – NEW WORK with the attached new Drawing M102 MECHANICAL YARD – NEW WORK marked ADDENDUM #1.

END ADDENDUM NUMBER ONE

(This Addendum consists of 26 pages)

222 South Central Ave.
Suite 501
St. Louis, MO 63105
314.863.4994
www.bondarchitectsinc.com

bond architects

Parkway West Middle Chiller - Pre-Bid Meeting Notes

PROJECT:	PROJECT NO:	FROM:
PSD West Middle Chiller	25091, PN432501B	Sue King

ATTENDEES:	COMPANY:	FAX NUMBER / EMAIL:
Ben Betts	Parkway School District	bbetts@parkwayschools.net
Michael Mosbacher	RTM Engineering Consultant	Michael.mosebacher@rtmec.com
Sue King	Bond Architects	sking@bondarchitectsinc.com
Ben Evelsizer	Poettker	bevelsizer@poettkerconstruction.co
Ken Harding	ABM	kharding@abmstl.com
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Blake Goewert	IFS	bgoewert@intfs.com
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Bill Boedeker	MC Mechanical	bboedeker@mcservicestl.com
Kyle Koerkenmeier	MC Mechanical	KKoerkenmeier@mcservicestl.com

ADDITIONAL DISTRIBUTION:	COMPANY:	FAX NUMBER / EMAIL:
Marty Collier	Parkway School District	Mcollier1@parkwayschools.net
Erik Wilson	Bond Architects	ewilson@bondarchitectsinc.com
Margaret Bailey	RTM Engineering Consultants	Margaret.Bailey@rtmec.com
Kitty Strong	Parkway School District	kstrong@parkwayschools.net
Adam Kealen	West Middle School Principal	akealen@parkwayschools.net
John Blanton	Parkway School District	jblanton@parkwayschools.net
Stephanie Kline-Tissi	Parkway School District	skline-tissi@parkwayschools.net

MEETING LOCATION:	DATE / TIME OF MEETING:	DISTRIBUTION DATE:
Parkway West Middle School	2026-08-10 / 9:00 – 10:00 am	2026-08-20

NOTES/COMMENTS:

Parkway West Middle Cooling Tower and Chillers Replacement Project - Pre-Bid Meeting Notes

Bid and Contract Requirements:

- Submit bids via Bonfire by listed due date; public opening at Parkway facilities building, large conference room, 2pm
- Board approval for Bids targeted for September meeting; contract ready to sign following day
- Required with bid:
  - Bid bond or cashier's check (mandatory)
  - All AIA qualification forms listed as mandatory in Bonfire (incomplete bids rejected)

    - Owner's contingency allowance (separate line item; omitting it risks deduction from final contract)
- Prevailing wage project; non-union contractors must comply
- At least one addendum will be issued (includes pre-bid sign-in sheet and any RFI responses)
- Payment: every two weeks upon correct application; June/July rollovers may extend to 30-31 days
- Retainage: 95% paid at substantial completion; 5% released after punch walk
- Parkway is tax-exempt: use appropriate exemption forms; taxes not reimbursed
- Permits: Parkway pays county, municipal, and fire district building permits; submit receipts for reimbursement

Site Rules and Logistics:

- All workers need OSHA 10 certification; submit list with certificate numbers
- Security badges required; workers caught inside without badges will be escorted off and may be banned
- No free roaming outside mechanical area, especially during school hours
- Submittals and closeout documents via Intellect (Parkway's EDMS); training available for new users
- Substance abuse policy in effect; drug testing possible after incidents
- CPM schedule required: submit timeline keyed to equipment delivery dates
- No temporary cooling planned; goal is to complete during cool season. It is assumed that there will be no temporary chiller involved in this project. Contractors to omit from their bids.
- Contractor to supply own dumpster; no use of Parkway dumpsters
- Porta-Johns and field offices: coordinate with Parkway for placement
- Substitutions: consult Parkway and Bond Architects before installing anything not in spec
- Refrigerant management requirements are in project manual; issue RFI if not found

Site and Abatement Conditions:

- Asbestos present: caulking at exterior louver and fittings in mechanical room
    - Parkway has abatement contractor (AMD) and third-party air monitoring on contract
    - No work in containment area until air clearance; do not cut poly or drill through suspect material
    - Possibility of pre-abating the area before work begins (being investigated)
    - If any suspected "hot materials are found, Parkway and Architect are to be notified. Do not disturb suspect materials.
- Courtyard excavation: old area with unknown private utilities
    - Parkway will attempt to locate utilities in advance
    - Any abandoned open conduits must be reported and sealed (water penetration issues)
    - Solar panel inverters and shutdown switches on one retaining wall: that section stays; protect it

Project Overview:

- West Middle cooling tower and chiller replacement
    - Two chillers, primary and secondary pumps, cooling towers all being replaced
    - Condenser water pumps are the only pumps remaining

    - Trane supplying equipment as a packaged skid (valving, controls included)
    - Automated Logic integrating Trane controls into building automation (~95% Trane-handled)
- Ice storage tanks added to the system
    - New concrete pad, footings, and buried ice lines in courtyard
    - Two retaining walls demolished and replaced; enlarged courtyard, new reinforced concrete retaining wall below grade, 8" cmu and brick facing public side above grade.
    - New storm sewer lines, area drains, and regrading for drainage swale.
    - New sanitary lateral for cooling tower drains (currently discharging to storm drain, needs code correction)
- Mechanical Room 1601 (middle level)
    - Some exhaust fans, unit heaters, and ductwork must be removed to extract chillers
    - Louver removal and replacement required; asbestos caulking at exterior louver and some fittings in mechanical room
    - ~6 ft drop from cooling tower yard floor to mechanical room floor: staging logistics required

Equipment and Procurement:

- Cooperative purchase agreement with Trane approved; going to board for final approval
- Parkway is pre-purchasing most of large mechanical equipment directly to reduce lead time.
    - Cooling tower lead time: ~16 weeks
    - Skid includes pumps, valving, manifolds, and controls; VFDs listed as "installed by others" (contractor to supply)
    - Trane to handle all startup
    - Trane proposal to be included in addendum (with pricing redacted) so contractors know what is covered.
    - Automated Logic (via Automatic Controls) is the sole-sourced BAS vendor for Parkway. However, Trane is providing factory/packaged controls for the new chilled water/thermal energy storage plant that Automated Logic will integrate into the existing BAS. Both Trane and Automated Logic are aware of this coordination.
- Salvage: Parkway retains all scrap metal, copper, and chiller equipment. Parkway to have first right of refusal on all precious metal and equipment.
    - Parkway will assist with moving chillers if needed; will pay for transit to their warehouse
    - Contractors must not strip copper or discard metals; cameras on site.

Addendums & Responses to Questions/RFIs:

- Pre-bid sign in sheet will be provided in the first addendum.
- Trane proposal/ bill of materials to be included in addendum (with pricing redacted)
- Contractor is responsible for filling the chilled water system with glycol and other chemicals as needed to get the system's water chemistry in line with spec requirements and manufacturer's warranty requirements.
    - For cost calculations, the chilled water system volume shall be assumed to be 850 Gallons.
- RFI responses will be included in addendums.
- There will be an addendum coming that will cover the addition of a new sewer lateral from the cooling tower yard down to the sanitary main along Baxter Rd.

Attachments:

1. Pre-bid sign-in sheet

These notes constitute our understanding of the content of the meetings. Please submit any questions, comments or corrections to this office within five (5) working days of the issue date. Corrections will be made in the next meeting notes

WEM COOLING TOWER AND CHILLERS REPLACEMENT

MANDATORY

FLUID APPLIED ROOFING FY25-26

WEST MIDDLE SCHOOL

BID NUMBER 26-145

MONDAY AUGUST 10TH, 2026 @ WEST MIDDLE SCHOOL

COMPANY REPRESENTATIVE	COMPANY NAME	TELEPHONE NO.	CELL NO.	EMAIL ADDRESS
BEN BETTS	PARKWAY SCHOOLS	314-415-8279	314-393-6650	bbetts@parkwayschools.net
Michael Mosbacher	RTM			michael.mosbacher@rtmwc.com
KEN HARDING	ABM	314-574-9284		KHARDING@ABMGTC.COM
RYAN GOEWERT	IFS	314-756-3770		rgoewert@intfs.com
BLAKE GOEWERT	IFS	314-722-1361		bgoewert@intfs.com
JERRY BAUMANN	IFS	314-779-7664		jerryb@intfs.com
BEN EVELSIZEK	POETKER	618-402-9547		bevelsizer@poetkerconstruction.com
Sue King	BOND ARCHITECTS	314 354-8867		sking@bondarchitectsinc.com
Bill Boedeker	MC Mechanical	636 275-6107		bboedeker@mcservicesstl.com
Kyle Koerkemeier	MC Mechanical	618-541-5363		KKoerkemeier@mcservicesstl.com

Proposal

APPROVED
By Sophie Settles at 2:57 pm, Jul 28, 2026

PROPRIETARY AND CONFIDENTIAL PROPERTY OF Trane U.S. Inc.
DISTRIBUTION TO OTHER THAN THE NAMED RECIPIENT IS PROHIBITED

Prepared For: All Bidders

Job Name: Parkway West Middle School
Chiller Plant

Delivery Terms: Freight Allowed and Prepaid
F.O.B. Factory

Date: July 13, 2026

COOP Quote Number: Q3-172193-26-002

COOP or Federal Contract ID: OMNIA Racine #3341

Payment Terms: Net 30 Days

Trane U.S. Inc. is pleased to provide the following proposal for your review and approval.

TRANE Water Cooled Helical Rotary Chillers (Duplex) (Qty: 2)

Tag(s)	Qty	Description	Model Number
CH-1, CH-2	2	250 Ton Water-Cooled (RTWD)	RTWD250A2

- Water Cooled Chiller – Dual Compressor/Dual Circuit
- High Efficiency
- R-513A Refrigerant – Factory Supplied and Charged
- Refrigerant Relief Valve Evap and Cond (1 per circuit)
- Factory Insulation Packaged
- Grooved Connection Standard Water Boxes
- Factory Mounted Controls with Unit Mounted Touchscreen Panel
  - Ice Making Control Package
  - BACnet Interface Package
- Wye-delta closed transition starter
- Single point connection with circuit breaker
- Under/over voltage protection
- Factory Installed IFM Flow Switches – Evap and Cond
- Sound Reduction Packaged - Factory Installed
  - Compressor Sound Wraps
  - Compressor Inlet and Outlet Attenuators
- Factory Startup and Owner Training
- 2 Year Complete Unit Parts, Labor and Refrigerant Warranty
- 5 Year Extended Compressor Parts Warranty

Ice Bank Energy Storage Tanks (ICEBANK) (Qty: 6)

Tag(s)	Qty	Description	Model Number
IT-001, IT-002, IT-003	3	Ice Bank Energy Storage Tanks – Dual Tank	ICEC1320

- Model C – Dual Header Tank with Single Piping Connection
- 324 nominal ton-hrs
- Complete Double Wall Insulated Cabinet with Poly Tubing
- Ice Inventory Meter (Integrates with Trane Chiller Controller)
- Top Access Hatch
- Standard 10 Year Warranty

Total Net Price *(excluding sales tax)* ..... [redacted]

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EVAPCO Cooling Towers (Qty: 1)

Tag(s)	Qty	Description	Model Number
CTW-001	1	Evapco Dual Cell Cooling Tower	AT 29-4J21

- Dual Cell Counterflow Cooling Tower
- ASHRAE 90.1-2019 Energy Compliant
- IBC Standard Structural Design
- 304 Welded Stainless Steel Cold Water Basin
- EVAPAK Fill
- 3-Probe Electronic Water Level Control Package
- (2) Vibration Switch
- External Service Platform with Ladder
- Safety Cage
- (2) Motor Davit with Base
- El. Heaters (-20F / -29C ambient)
- (2) Fan Motor: Inverter Capable, Premium Efficient (VFD by Others)
- (2) Fan Motor: Space Heaters
- 1 Year Complete Unit Parts Warranty
- 5 Year Motor and Drive Train Warranty

Total Net Price *(excluding sales tax)* ..... [redacted]

TRANE Pump Completion Module (Qty: 1)

Tag(s)	Qty	Description	Model Number
Pump Skid	1	Factory Ice Plant Pump Skid	TRANE TCS P2525

- Hydronic Piping Package – Evaporator / ICE Plant
  - (2) 5 HP Taco Pumps (Lead/Lag Control)
  - (2) Pump VFD's
  - 740 GPM / 60' TDH / 30%PG
- Hydronic Piping Package – Secondary/Building Loop
  - (2) 25 HP Taco Pumps (Lead/Lag Control)
  - (2) Pump VFD's
  - 1051 GPM / 61 feet head / 30% PG
- 2-Way Chiller Bypass Valve
- 3-Way ICE Tank Mixing Valve
- 3-Way system diverting Valve
- 2-Way Modulating Valve for Low Flow Bypass Line
- Flow Meter
- DP Transmitters (Field Installed)
- Air Separator
- Expansion Tank
- Drain and fill field connections
- Pre-programmed Trane Symbio Ice Chiller Plant Controls
- Installation of Glycol Management System
- Pump Isolation Valves
- Triple Duty Valve
- Suction Diffuser w/ Strainer
- Pump Pressure Gauges
- Single Point Power
- Factory Startup and Owner Training
- 1 Year Complete Unit Parts and Labor Warranty

Total Net Price *(excluding sales tax)* ..... [redacted]

Sincerely,

Jake Schanzmeyer
Office Phone: (314) 614-8135
Jake.schanzmeyer@trane.com

This proposal is subject to your acceptance of the attached Trane terms and conditions.

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TERMS AND CONDITIONS - COMMERCIAL EQUIPMENT

"Company" shall mean Trane U.S. Inc. for sales in the United States and Trane Canada ULC for sales in Canada.

1. Acceptance. These terms and conditions are an integral part of Company's offer and form the basis of any agreement (the "Agreement") resulting from Company's proposal (the "Proposal") for the sale of the described commercial equipment and any ancillary services (the "Equipment"). COMPANY'S TERMS AND CONDITIONS AND EQUIPMENT PRICES ARE SUBJECT TO PERIODIC CHANGE OR AMENDMENT. The Proposal is subject to acceptance in writing by the party to whom this offer is made or an authorized agent ("Customer") delivered to Company within 15 days from the date of the Proposal. Prices in the Proposal are subject to change at any time upon notice to Customer. If Customer accepts the Proposal by placing an order, without the addition of any other terms and conditions of sale or any other modification, Customer's order shall be deemed acceptance of the Proposal subject to Company's terms and conditions. If Customer's order is expressly conditioned upon Company's acceptance or assent to terms and/or conditions other than those expressed herein, return of such order by Company with Company's terms and conditions attached or referenced serves as Company's notice of objection to Customer's terms and as Company's counteroffer to provide Equipment in accordance with the Proposal and the Company's terms and conditions. If Customer does not reject or object in writing to Company within 10 days, Company's counteroffer will be deemed accepted. Notwithstanding anything to the contrary herein, Customer's acceptance of the Equipment will in any event constitute an acceptance by Customer of Company's terms and conditions. This Agreement is subject to credit approval by Company. Upon disapproval of credit, Company may delay or suspend performance or, at its option, renegotiate prices and/or terms and conditions with Customer. If Company and Customer are unable to agree on such revisions, this Agreement shall be cancelled without any liability.

2. Connected Services and Company Provided Telematics Connectivity. In addition to these terms and conditions, the Connected Services Terms of Service ("Connected Services Terms"), available at https://www.trane.com/TraneConnectedServicesTerms, as updated from time to time, are incorporated herein by reference and shall apply to the extent that Company provides Customer with Connected Services, as defined in the Connected Services Terms. Certain Equipment may include, or be installed together with, Company provided Telematics Devices that provide remote connectivity and the Connected Services Terms set forth the terms and conditions applicable to the Telematics Devices and connectivity, including opt-out provisions. If Customer provides or transfers the Equipment to another party, Customer shall ensure that such party is informed in writing of the presence of any Telematics Devices and the applicability of the Connected Services Terms.

3. Title and Risk of Loss. All Equipment sales with destinations to Canada or the U.S. shall be made as follows: FOB Company's U.S. manufacturing facility or warehouse (full freight allowed). Title and risk of loss or damage to Equipment will pass to Customer upon tender of delivery of such to carrier at Company's U.S. manufacturing facility or warehouse.

4. Pricing and Taxes. Within forty-five (45) days following Customer acceptance of the Proposal without addition of any other terms and conditions of sale or any modification, Customer shall provide notification of release for immediate production at Company's factory. Prices for Equipment are subject to change at any time prior to shipment to reflect any cost increases related to the manufacture, supply, and shipping of Equipment. This includes, but is not limited to, cost increases in raw materials, supplier components, labor, utilities, freight, logistics, wages and benefits, regulatory compliance, or any other event beyond Company's control. If shipment is delayed due to Customer's actions, Company may also charge Customer with storage fees. If a release is not received within 6 months following order acceptance, Company reserves the right to cancel any order. Company shall be entitled to equitable adjustments in the contract price to reflect any cost increases as set forth above and will provide notice to Customer prior to the date for which the increased price is to be in effect for the applicable customer contract. In no event will prices be decreased. The price of Equipment does not include any present or future foreign, federal, state, or local property, license, privilege, sales, use, excise, value added, gross receipts or other like taxes or assessments. Such amounts will be itemized separately to Customer, who will make prompt payment to Company. Company will accept valid exemption documentation for such taxes and assessments from Customer, if applicable. All prices include packaging in accordance with Company's standard procedures. Charges for special packaging, crating, or packing are the responsibility of Customer.

5. Delivery and Delays. Delivery dates are approximate and not guaranteed. Company will use commercially reasonable efforts to deliver the Equipment on or before the estimated delivery date, will notify Customer if the estimated delivery dates cannot be honored, and will deliver the Equipment and services as soon as practicable thereafter. In no event will Company be liable for any damages or expenses caused by delays in delivery.

6. Performance. Company shall be obligated to furnish only the Equipment described in the Proposal and in submittal data (if such data is issued in connection with the order). Company may rely on the acceptance of the Proposal and submittal data as acceptance of the suitability of the Equipment for the particular project or location. Unless specifically stated in the Proposal, compliance with any local building codes or other laws or regulations relating to specifications or the location, use or operation of the Equipment is the sole responsibility of Customer. If Equipment is tendered that does not fully comply with the provisions of this Agreement and Equipment is rejected by Customer, Company will have the right to cure within a reasonable time after notice thereof by substituting a conforming tender whether or not the time for performance has passed.

7. Force Majeure. Company's duty to perform under this Agreement and the Equipment prices are contingent upon the non-occurrence of an Event of Force Majeure. If the Company shall be unable to carry out any material obligation under this Agreement due to an Event of Force Majeure, this Agreement shall at Company's election (i) remain in effect but Company's obligations shall be suspended until the uncontrollable event terminates or (ii) be terminated upon 10 days' notice to Customer, in which event Customer shall pay Company for all parts of the Work furnished to the date of termination. An "Event of Force Majeure" shall mean any cause or event beyond the control of Company. Without limiting the foregoing, "Event of Force Majeure" includes: acts of God; acts of terrorism, war or the public enemy; flood; earthquake; tornado; storm; fire; civil disobedience; pandemic insurrections; riots; labor/labour disputes; labor/labour or material shortages; sabotage; restraint by court order or public authority (whether valid or invalid); and action or non-action by or inability to obtain or keep in force the necessary governmental authorizations, permits, licenses, certificates or approvals if not caused by Company; and the requirements of any applicable government in any manner that diverts either the material or the finished product to the direct or indirect benefit of the government.

8. Limited Warranty. Company warrants the Equipment manufactured by Company for a period of the lesser of 12 months from initial start-up or 18 months from date of shipment, whichever is less, against failure due to defects in material and manufacture and that it has the capacities and ratings set forth in Company's catalogs and bulletins ("Warranty"). **Equipment manufactured by Company that includes required start-up and sold in North America will not be warranted by Company unless Company performs the Equipment startup**. Exclusions from this Warranty include damage or failure arising from: wear and tear; corrosion, erosion, deterioration; modifications made by others to the Equipment; repairs or alterations by a party other than Company that adversely affects the stability or reliability of the Equipment; vandalism; neglect; accident; adverse weather or environmental conditions; abuse or improper use; improper installation; commissioning by a party other than Company; unusual physical or electrical or mechanical stress; operation with any accessory, equipment or part not specifically approved by Company; refrigerant not supplied by Company; and/or lack of proper maintenance as recommended by Company. Company shall not be obligated to pay for the cost of lost refrigerant or lost product. Company's obligations and liabilities under this Warranty are limited to furnishing replacement equipment or parts, at its option, FCA (Incoterms 2000) factory or warehouse (f.o.b. factory or warehouse for US domestic purposes) at Company-designated shipping point, freight-allowed to Company's warranty agent's stock location, for all non-conforming Company-manufactured Equipment (which have been returned by Customer to Company). Returns must have prior written approval by Company and are subject to restocking charge where applicable. Equipment, material, and/or parts that are not manufactured by Company ("Third-Party Product(s)") are not warranted by Company and have such warranties as may be extended by the respective manufacturer. **CUSTOMER UNDERSTANDS THAT COMPANY IS NOT THE MANUFACTURER OF ANY THIRD-PARTY PRODUCT(S) AND ANY WARRANTIES, CLAIMS, STATEMENTS, REPRESENTATIONS, OR SPECIFICATIONS ARE THOSE OF THE THIRD-PARTY MANUFACTURER, NOT COMPANY AND CUSTOMER IS NOT RELYING ON ANY WARRANTIES, CLAIMS, STATEMENTS, REPRESENTATIONS, OR SPECIFICATIONS REGARDING THE THIRD-PARTY PRODUCT THAT MAY BE PROVIDED BY COMPANY OR ITS AFFILIATES, WHETHER ORAL OR WRITTEN. COMPANY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ADDITIONALLY, COMPANY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING PREVENTING., ELIMINATING, REDUCING OR INHIBITING ANY MOLD, FUNGUS, BACTERIA, VIRUS, MICROBIAL GROWTH, OR ANY OTHER CONTAMINANTS (INCLUDING COVID-19 OR ANY SIMILAR VIRUS) (COLLECTIVELY, "CONTAMINANTS"), WHETHER INVOLVING OR IN CONNECTION WITH EQUIPMENT, ANY COMPONENT THEREOF, SERVICES OR OTHERWISE. IN NO EVENT SHALL COMPANY HAVE ANY LIABILITY FOR THE PREVENTION, ELIMINATION, REDUCTION OR INHIBITION OF THE GROWTH OR SPREAD OF SUCH CONTAMINANTS INVOLVING OR IN CONNECTION WITH ANY EQUIPMENT, THIRD-PARTY PRODUCT, OR ANY COMPONENT THEREOF, SERVICES OR OTHERWISE AND CUSTOMER HEREBY SPECIFICALLY ACKNOWLEDGES AND AGREES THERETO.** No warranty liability whatsoever shall attach to Company until Customer's complete order has been paid for in full and Company's liability under this Warranty shall be limited to the purchase price of the Equipment shown to be defective. Additional warranty protection is available on an extra-cost basis and must be in writing and agreed to by an authorized signatory of the Company. **EXCEPT FOR COMPANY'S WARRANTY EXPRESSLY SET FORTH HEREIN, COMPANY DOES NOT MAKE, AND HEREBY EXPRESSLY DISCLAIMS, ANY WARRANTIES, EXPRESS OR IMPLIED CONCERNING ITS PRODUCTS, EQUIPMENT OR SERVICES, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF DESIGN, MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR OTHERS THAT ARE ALLEGED TO ARISE FROM COURSE OF DEALING OR TRADE.**

9. Indemnity. To the fullest extent permitted by law, Company and Customer shall indemnify, defend and hold harmless each other from any and all claims, actions, costs, expenses, damages and liabilities, including reasonable attorneys' fees, resulting from death or bodily injury or damage to real or personal property, to the extent caused by the negligence or misconduct of their respective employees or other authorized agents in connection with their activities within the scope of this Agreement. Neither party shall indemnify the other against claims, damages, expenses, or liabilities to the extent attributable to the acts or omissions of the other party. If the parties are both

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at fault, the obligation to indemnify shall be proportional to their relative fault. The duty to indemnify will continue in full force and effect, notwithstanding the expiration or early termination hereof, with respect to any claims based on facts or conditions that occurred prior to expiration or termination.

10. Insurance. Upon request, Company will furnish evidence of its standard insurance coverage. If Customer has requested to be named as an additional insured under Company's insurance policy, Company will do so but only subject to Company's manuscript additional insured endorsement under its primary Commercial General Liability policies. In no event does Company waive any rights of subrogation.

11. Customer Breach. Each of the following events or conditions shall constitute a breach by Customer and shall give Company the right, without an election of remedies, to terminate this Agreement, require payment prior to shipping, or suspend performance by delivery of written notice: (1) Any failure by Customer to pay amounts when due; (2) any general assignment by Customer for the benefit of its creditors, or if Customer becomes bankrupt or insolvent or takes the benefit of any statute for bankrupt or insolvent debtors, or makes or proposes to make any proposal or arrangement with creditors, or if any steps are taken for the winding up or other termination of Customer or the liquidation of its assets, or if a trustee, receiver, or similar person is appointed over any of the assets or interests of Customer; (3) Any representation or warranty furnished by Customer in connection with this Agreement is false or misleading in any material respect when made; or (4) Any failure by Customer to perform or comply with any material provision of this Agreement. Customer shall be liable to the Company for all Equipment furnished and all damages sustained by Company (including lost profit and overhead).

12. Limitation of Liability. NOTWITHSTANDING ANYTHING TO THE CONTRARY, IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, LIQUIDATED, INDIRECT CONSEQUENTIAL, PUNITIVE, EXEMPLARY DAMAGES (INCLUDING WITHOUT LIMITATION REFRIGERANT LOSS, BUSINESS INTERRUPTION, LOST DATA, LOST REVENUE, LOST PROFITS), OR CONTAMINANTS LIABILITIES, EVEN IF A PARTY HAS BEEN ADVISED OF SUCH POSSIBLE DAMAGES OR IF SAME WERE REASONABLY FORESEEABLE AND REGARDLESS OF WHETHER THE CAUSE OF ACTION IS FRAMED IN CONTRACT, NEGLIGENCE, ANY OTHER TORT, WARRANTY, STRICT LIABILITY, OR PRODUCT LIABILITY. In no event will Company's liability in connection with the provision of products or services or otherwise under this Agreement exceed the entire amount paid to Company by Customer under this Agreement.

13. CONTAMINANTS LIABILITY

The transmission of COVID-19 may occur in a variety of ways and circumstances, many of the aspects of which are currently not known. HVAC systems, products, services, and other offerings have not been tested for their effectiveness in reducing the spread of COVID-19, including through the air in closed environments**. IN NO EVENT WILL COMPANY BE LIABLE UNDER THIS AGREEMENT OR OTHERWISE FOR ANY INDEMNIFICATION, ACTION, OR CLAIM, WHETHER BASED ON WARRANTY, CONTRACT, TORT OR OTHERWISE, FOR ANY BODILY INJURY (INCLUDING DEATH), DAMAGE TO PROPERTY, OR ANY OTHER LIABILITIES, DAMAGES OR COSTS RELATED TO CONTAMINANTS (INCLUDING THE SPREAD, TRANSMISSION, MITIGATION, ELIMINATION, OR CONTAMINATION THEREOF) (COLLECTIVELY, "CONTAMINANTS LIABILITIES") AND CUSTOMER HEREBY EXPRESSLY RELEASES COMPANY FROM ANY SUCH CONTAMINANTS LIABILITIES.**

14. Nuclear Liability. In the event that the Equipment sold hereunder is to be used in a nuclear facility, Customer will, prior to such use, arrange for insurance or governmental indemnity protecting Company against all liability and hereby releases and agrees to indemnify Company and its suppliers for any nuclear damage, including loss of use, in any manner arising out of a nuclear incident, whether alleged to be due, in whole or in part to the negligence or otherwise of Company or its suppliers.

15. Intellectual Property; Patent Indemnity. Company retains all ownership, license and other rights to all patents, trademarks, copyrights, trade secrets, and other intellectual property rights related to the Equipment, and, except for the right to use the Equipment sold, Customer obtains no rights to use any such intellectual property. Company agrees to defend any suit or proceeding brought against Customer so far as such suit or proceeding is solely based upon a claim that the use of the Equipment provided by Company constitutes infringement of any patent of the United States of America, provided Company is promptly notified in writing and given authority, information and assistance for defense of same. Company will, at its option, procure for Customer the right to continue to use said Equipment, or modify it so that it becomes non-infringing, or replace same with non-infringing Equipment, or to remove said Equipment and to refund the purchase price. The foregoing will not be construed to include any Agreement by Company to accept any liability whatsoever in respect to patents for inventions including more than the Equipment furnished hereunder, or in respect of patents for methods and processes to be carried out with the aid of said Equipment. The provision of Equipment by Company does not convey any license, by implication, estoppel, or otherwise, under patent claims covering combinations of said Equipment with other devices or elements. The foregoing states the entire liability of Company with regard to patent infringement. Notwithstanding the provisions of this paragraph, Customer will hold Company harmless against any expense or loss resulting from infringement of patents or trademarks arising from compliance with Customer's designs or specifications or instructions.

16. Cancellation. Equipment is specially manufactured in response to orders. An order placed with and accepted by Company cannot be delayed, canceled, suspended, or extended except with Company's written consent and upon written terms accepted by Company that will reimburse Company for and indemnify Company against loss and provide Company with a reasonable profit for its materials, time, labor, services, use of facilities and otherwise. Customer will be obligated to accept any Equipment shipped, tendered for delivery or delivered by Company pursuant to the order prior to any agreed delay, cancellation, suspension or extension of the order. Any attempt by Customer to unilaterally revoke, delay or suspend acceptance for any reason whatever after it has agreed to delivery of or accepted any shipment shall constitute a breach of this Agreement. For purposes of this paragraph, acceptance occurs by any waiver of inspection, use or possession of Equipment, payment of the invoice, or any indication of exclusive control exercised by Customer.

17. Invoicing and Payment. Unless otherwise agreed to in writing by Company, equipment shall be invoiced to Customer upon tender of delivery thereof to the carrier. Customer shall pay Company's invoices within net 30 days of shipment date. Company reserves the right to add to any account outstanding for more than 30 days a service charge equal to the lesser of the maximum allowable legal interest rate or 1.5% of the principal amount due at the end of each month. Customer shall pay all costs (including attorneys' fees) incurred by Company in attempting to collect amounts due and otherwise enforcing these terms and conditions. If requested, Company will provide appropriate lien waivers upon receipt of payment. Company may at any time decline to ship, make delivery, or perform work except upon receipt of cash payment, letter of credit, or security, or upon other terms and conditions satisfactory to Company. Customer agrees that, unless Customer makes payment in advance, Company will have a purchase money security interest in all Equipment to secure payment in full of all amounts due Company and its order for the Equipment, together with these terms and conditions, form a security agreement (as defined by the UCC in the United States and as defined in the Personal Property Security Act in Canada). Customer shall keep the Equipment free of all taxes and encumbrances, shall not remove the Equipment from its original installation point, and shall not assign or transfer any interest in the Equipment until all payments due Company have been made. The purchase money security interest granted herein attaches upon Company's acceptance of Customer's order and on receipt of the Equipment described in the accepted Proposal but prior to its installation. The parties have no agreement to postpone the time for attachment unless specifically noted in writing on the accepted order. Customer will have no rights of set off against any amounts, which become payable to Company under this Agreement or otherwise.

18. Claims. Company will consider claims for concealed shortages in shipments or rejections due to failure to conform to an order only if such claims or rejections are made in writing within 15 days of delivery and are accompanied by the packing list and, if applicable, the reasons in detail why the Equipment does not conform to Customer's order. Upon receiving authorization and shipping instructions from authorized personnel of Company, Customer may return rejected Equipment, transportation charges prepaid, for replacement. Company may charge Customer any costs resulting from the testing, handling, and disposition of any Equipment returned by Customer which are not found by Company to be nonconforming. All Equipment damaged during shipment and all claims relating thereto must be made with the freight carrier in accordance with such carrier's policies and procedures. Claims for Equipment damaged during shipment are not covered under the warranty provision stated herein.

19. Export Laws. The obligation of Company to supply Equipment under this Agreement is subject to the ability of Company to supply such items consistent with applicable laws and regulations of the United States and other governments. Company reserves the right to refuse to enter into or perform any order, and to cancel any order, under this Agreement if Company in its sole discretion determines that performance of the transaction to which such order relates would violate any such applicable law or regulation. Customer will pay all handling and other similar costs from Company's factories including the costs of freight, insurance, export clearances, import duties and taxes. Customer will be "exporter of record" with respect to any export from the United States of America and will perform all compliance and logistics functions in connection therewith and will also comply with all applicable laws, rules, and regulations. Customer understands that Company and/or the Equipment are subject to laws and regulations of the United States of America which may require licensing or authorization for and/or prohibit export, re-export or diversion of Company's Equipment to certain countries, and agrees it will not knowingly assist or participate in any such diversion or other violation of applicable United States of America laws and regulations. Customer agrees to hold harmless and indemnify Company for any damages resulting to Customer or Company from a breach of this paragraph by Customer. Furthermore, the Customer acknowledges that the Company's Equipment are subject to export control and sanction laws and regulations, including but not limited to the U.S. Export Administration Regulations (EAR) (15 CFR 730-774) and the Foreign Asset Control Regulations (31 CFR 500) ("laws and regulations"). The Customer agrees to comply with all such laws and regulations. The Customer will not use or divert the Equipment for any prohibited end-uses, such as the proliferation of weapons of mass destruction. The Customer also agrees not to re-export or transfer the Equipment in violation of export control laws.

20. General. Except as provided below, to the maximum extent provided by law, this Agreement is made and shall be interpreted and enforced in accordance with the laws of the state of New York for Equipment shipped to a U.S. location and the laws of the province to which Equipment is shipped within Canada, without regard to its conflict of law principles that might otherwise call for the application of a different state's or province's law, and not including the United Nations Convention on Contracts for the International Sale of Goods. To the extent the Equipment is being used at a site owned and/or operated by any agency of the Federal Government, determination of any substantive issue of law shall be according to the Federal common law of Government contracts as enunciated and applied by Federal judicial bodies and boards of contract appeals of the Federal Government. This Agreement contains all of the agreements, representations and understandings of the parties and supersedes all

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previous understandings, commitments, or agreements, oral or written, related to the subject matter hereof. This Agreement may not be amended, modified, or terminated except by a writing signed by the parties hereto. No documents shall be incorporated herein by reference except to the extent Company is a signatory thereon. If any term or condition of this Agreement is invalid, illegal or incapable of being enforced by any rule of law, all other terms and conditions of this Agreement will nevertheless remain in full force and effect as long as the economic or legal substance of the transaction contemplated hereby is not affected in a manner adverse to any party hereto. Customer may not assign, transfer, or convey this Agreement, or any part hereof, or its right, title, or interest herein, without the written consent of the Company. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of Customer's permitted successors and assigns. This Agreement may be executed in several counterparts, each of which when executed shall be deemed to be an original, but all together shall constitute but one and the same Agreement. A fully executed facsimile copy hereof or the several counterparts shall suffice as an original.

21. Federal Requirements. The Parties shall comply with all United States federal labor law obligations under 29 CFR part 471, appendix A to subpart A. THE FOLLOWING PROVISIONS ARE INCORPORATED HEREIN BY REFERENCE: Executive Order 11701 and 41 CFR §§ 60-250.5(a), 60-300.5; Executive Order 11758 and 41 CFR § 60-741.5(a); U.S. immigration laws, including the L-1 Visa Reform Act of 2004 and the H-1B Visa Reform Act of 2004; and Executive Order 13496. The Parties shall abide by the requirements of 41 CFR 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to protected veteran status or disability. The Parties certify that they do not operate any programs promoting DEI that violate any applicable United States anti-discrimination laws and acknowledge and agree that their compliance with all applicable federal anti-discrimination laws is material to the federal government's payment decisions. The Parties acknowledge and agree that their employment, procurement, and contracting practices shall not consider race, color, sex, sexual preference, religion, or national origin in ways that violate United States federal civil rights laws.

22. U.S. Government Work.

The following provision applies only to direct sales by Company to the US Government. The Parties acknowledge that Equipment ordered and delivered under this Agreement are Commercial Items as defined under Part 12 of the Federal Acquisition Regulation (FAR). In particular, Company agrees to be bound only by those Federal contracting clauses that apply to "commercial" suppliers and that are contained in FAR 52.212-5(e)(1).

The following provision applies only to indirect sales by Company to the US Government. As a Commercial Item Subcontractor, Company accepts only the following mandatory flow-down provisions: 52.219-8; 52.222-26; 52.222-35; 52.222-36; 52.222-39; 52.247-64. If the sale of the Equipment is in connection with a U.S. Government contract, Customer certifies that it has provided and will provide current, accurate, and complete information, representations and certifications to all government officials, including but not limited to the contracting officer and officials of the Small Business Administration, on all matters related to the prime contract, including but not limited to all aspects of its ownership, eligibility, and performance. Anything herein notwithstanding, Company will have no obligations to Customer unless and until Customer provides Company with a true, correct, and complete executed copy of the prime contract. Upon request, Customer will provide copies to Company of all requested written communications with any government official related to the prime contract prior to or concurrent with the execution thereof, including but not limited to any communications related to Customer's ownership, eligibility, or performance of the prime contract. Customer will obtain written authorization and approval from Company prior to providing any government official any information about Company's performance of the work that is the subject of the Proposal or this Agreement, other than the Proposal or this Agreement.

23. Limited Waiver of Sovereign Immunity. If Customer is an Indian tribe (in the U.S.) or a First Nation or Band Council (in Canada), Customer, whether acting in its capacity as a government, governmental entity, a duly organized corporate entity or otherwise, for itself and for its agents, successors, and assigns: (1) hereby provides this limited waiver of its sovereign immunity as to any damages, claims, lawsuit, or cause of action (herein "Action") brought against Customer by Company and arising or alleged to arise out of the furnishing by Company of any product or service under this Agreement, whether such Action is based in contract, tort, strict liability, civil liability or any other legal theory; (2) agrees that jurisdiction and venue for any such Action shall be proper and valid (a) if Customer is in the U.S., in any state or United States court located in the state in which Company is performing this Agreement or (b) if Customer is in Canada, in the superior court of the province or territory in which the work was performed; (3) expressly consents to such Action, and waives any objection to jurisdiction or venue; (4) waives any requirement of exhaustion of tribal court or administrative remedies for any Action arising out of or related to this Agreement; and (5) expressly acknowledges and agrees that Company is not subject to the jurisdiction of Customer's tribal court or any similar tribal forum, that Customer will not bring any action against Company in tribal court, and that Customer will not avail itself of any ruling or direction of the tribal court permitting or directing it to suspend its payment or other obligations under this Agreement. The individual signing on behalf of Customer warrants and represents that such individual is duly authorized to provide this waiver and enter into this Agreement and that this Agreement constitutes the valid and legally binding obligation of Customer, enforceable in accordance with its terms.

1-26.130-4 (0326)
Supersedes 1-26.130-4(0225)

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SECURITY ADDENDUM

This Addendum shall be applicable to the sale, installation and use of Trane equipment and the sale and provision of Trane services. "Trane" shall mean Trane U.S. Inc. for sales and services in the United States, or Trane Canada ULC for sales and services in Canada.

1. **Definitions.** All terms used in this Addendum shall have the meaning specified in the Agreement unless otherwise defined herein. For the purposes of this Addendum, the following terms are defined as follows:
   "Customer Data" means Customer account information as related to the Services only and does not include HVAC Machine Data or personal data. Trane does not require, nor shall Customer provide personal data to Trane under the Agreement. Such data is not required for Trane to provide its Equipment and/or Services to the Customer.
   "Equipment" shall have the meaning set forth in the Agreement.
   "HVAC Machine Data" means data generated and collected from the product or furnished service without manual entry. HVAC Machine Data is data relating to the physical measurements and operating conditions of a HVAC system, such as but not limited to, temperatures, humidity, pressure, HVAC equipment status. HVAC Machine Data does not include Personal Data and, for the purposes of this agreement, the names of users of Trane's controls products or hosted applications shall not be Personal Data, if any such user chooses to use his/her name(s) in the created accounts within the controls product (e.g., firstname.lastname@address.com). HVAC Machine Data may be used by Trane: (a) to provide better support services and/or products to users of its products and services; (b) to assess compliance with Trane terms and conditions; (c) for statistical or other analysis of the collective characteristics and behaviors of product and services users; (d) to backup user and other data or information and/or provide remote support and/or restoration; (e) to provide or undertake: engineering analysis; failure analysis; warranty analysis; energy analysis; predictive analysis; service analysis; product usage analysis; and/or other desirable analysis, including, but not limited to, histories or trends of any of the foregoing; and (f) to otherwise understand and respond to the needs of users of the product or furnished service. "Personal Data" means data and/or information that is owned or controlled by Customer, and that names or identifies, or is about a natural person, such as: (i) data that is explicitly defined as a regulated category of data under any data privacy laws applicable to Customer; (ii) non-public personal information ("NPI") or personal information ("PI"), such as national identification number, passport number, social security number, social insurance number, or driver's license number; (iii) health or medical information, such as insurance information, medical prognosis, diagnosis information, or genetic information; (iv) financial information, such as a policy number, credit card number, and/or bank account number; (v) personally identifying technical information (whether transmitted or stored in cookies, devices, or otherwise), such as IP address, MAC address, device identifier, International Mobile Equipment Identifier ("IMEI"), or advertising identifier; (vi) biometric information; and/or (vii) sensitive personal data, such as, race, religion, marital status, disability, gender, sexual orientation, geolocation, or mother's maiden name.
   "Security Incident" shall refer to (i) a compromise of any network, system, application or data in which Customer Data has been accessed or acquired by an unauthorized third party; (ii) any situation where Trane reasonably suspects that such compromise may have occurred; or (iii) any actual or reasonably suspected unauthorized or illegal Processing, loss, use, disclosure or acquisition of or access to any Customer Data.
   "Services" shall have the meaning set forth in the Agreement.

2. HVAC Machine Data; Access to Customer Extranet and Third-Party Systems. If Customer grants Trane access to HVAC Machine Data via web portals or other non-public websites or extranet services on Customer's or a third party's website or system (each, an "Extranet"), Trane will comply with the following:
   a. Accounts. Trane will ensure that Trane's personnel use only the Extranet account(s) designated by Customer and will require Trane personnel to keep their access credentials confidential.
   b. Systems. Trane will access the Extranet only through computing or processing systems or applications running operating systems managed by Trane that include: (i) system network firewalls; (ii) centralized patch management; (iii) operating system appropriate anti-malware software; and (iv) for portable devices, full disk encryption.
   c. Restrictions. Unless otherwise approved by Customer in writing, Trane will not download, mirror, or permanently store any HVAC Machine Data from any Extranet on any medium, including any machines, devices, or servers.
   d. Account Termination. Trane will terminate the account of each of Trane's personnel in accordance with Trane's standard practices after any specific Trane personnel who has been authorized to access any Extranet (1) no longer needs access to HVAC Machine Data or (2) no longer qualifies as Trane personnel (e.g., the individual leaves Trane's employment).
   e. Third-Party Systems. Trane will provide Customer prior notice before it uses any third-party system that stores or may otherwise have access to HVAC Machine Data, unless (1) the data is encrypted and (2) the third-party system will not have access to the decryption key or unencrypted "plain text" versions of the HVAC Machine Data.

3. Customer Data; Confidentiality. Trane shall keep confidential, and shall not access or use any Customer Data and information that is marked confidential or by its nature is considered confidential ("Customer Confidential Information") other than for the purpose of providing the Equipment and Services, and will disclose Customer Confidential Information only: (i) to Trane's employees and agents who have a need to know to perform the Services, (ii) as expressly permitted or instructed by Customer, or (iii) to the minimum extent required to comply with applicable law, provided that Trane (1) provides Customer with prompt written notice prior to any such disclosure, and (2) reasonably cooperate with Customer to limit or prevent such disclosure.

4. Customer Data; Compliance with Laws. Trane agrees to comply with laws, regulations governmental requirements and industry standards and practices relating to Trane's processing of Customer Confidential Information (collectively, "***Laws***").

5. Customer Data; Information Security Management. Trane agrees to establish and maintain an information security and privacy program, consistent with applicable HVAC equipment industry practices that complies with this Addendum and applicable Laws ("***Information Security Program***"). The Information Security Program shall include appropriate physical, technical and administrative safeguards, including any safeguards and controls agreed by the Parties in writing, sufficient to protect Customer systems, and Customer's Confidential Information from unauthorized access, destruction, use, modification, or disclosure. The Information Security Program shall include appropriate, ongoing training and awareness programs designed to ensure that Trane's employees and agents, and others acting on Trane's, behalf are aware of and comply with the Information Security Program's policies, procedures, and protocols.

6. Monitoring. Trane shall monitor and, at regular intervals consistent with HVAC equipment industry practices, test and evaluate the effectiveness of its Information Security Program. Trane shall evaluate and promptly adjust its Information Security Program in light of the results of the testing and monitoring, any material changes to its operations or business arrangements, or any other facts or circumstances that Trane knows or reasonably should know may have a material impact on the security of Customer Confidential Information, Customer systems and Customer property.

7. Audits. Customer acknowledges and agrees that the Trane SOC2 audit report will be used to satisfy any and all audit/inspection requests/requirements by or on behalf of Customer. Trane will make its SOC2 audit report available to Customer upon request and with a signed nondisclosure agreement.

8. Information Security Contact. Trane's information security contact is Local Sales Office.

9. Security Incident Management. Trane shall notify Customer after the confirmation of a Security Incident that affects Customer Confidential Information, Customer systems, and Customer property. The written notice shall summarize the nature and scope of the Security Incident and the corrective action already taken or planned.

10. Threat and Vulnerability Management. Trane regularly performs vulnerability scans and addresses detected vulnerabilities on a risk basis. Periodically, Trane engages third parties to perform network vulnerability assessments and penetration testing. Vulnerabilities will be reported in accordance with Trane's cybersecurity vulnerability reported process. Trane periodically provides security updates and software upgrades.

11. Security Training and Awareness. New employees are required to complete security training as part of the new hire process and receive annual and targeted training (as needed and appropriate to their role) thereafter to help maintain compliance with Security Policies, as well as other corporate policies, such as the Trane Code of Conduct. This includes requiring Trane employees to annually re-acknowledge the Code of Conduct and other Trane policies as appropriate. Trane conducts periodic security awareness campaigns to educate personnel about their responsibilities and provide guidance to create and maintain a secure workplace.

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12. Secure Disposal Policies. Trane will maintain policies, processes, and procedures regarding the disposal of tangible and intangible property containing Customer Confidential Information so that wherever possible, Customer Confidential Information cannot be practicably read or reconstructed.

13. Logical Access Controls. Trane employs internal monitoring and logging technology to help detect and prevent unauthorized access attempts to Trane's corporate networks and production systems. Trane's monitoring includes a review of changes affecting systems' handling authentication, authorization, and auditing, and privileged access to Trane production systems. Trane uses the principle of "least privilege" (meaning access denied unless specifically granted) for access to customer data.

14. Contingency Planning/Disaster Recovery. Trane will implement policies and procedures required to respond to an emergency or other occurrence (i.e., fire, vandalism, system failure, natural disaster) that could damage Customer Data or any system that contains Customer Data. Procedures include the following:
    (i) Data backups; and
    (ii) Formal disaster recovery plan. Such disaster recovery plan is tested at least annually.

15. Return of Customer Data. If Trane is responsible for storing or receiving Customer Data, Trane shall, at Customer's sole discretion, deliver Customer Data to Customer in its preferred format within a commercially reasonable period of time following the expiration or earlier termination of the Agreement or, such earlier time as Customer requests, securely destroy or render unreadable or undecipherable each and every original and copy in every media of all Customer's Data in Trane's possession, custody or control no later than [90 days] after receipt of Customer's written instructions directing Trane to delete the Customer Data.

16. Background Checks Trane shall take reasonable steps to ensure the reliability of its employees or other personnel having access to the Customer Data, including the conducting of appropriate background and/or verification checks in accordance with Trane policies.

17. DISCLAIMER OF WARRANTIES. EXCEPT FOR ANY APPLICABLE WARRANTIES IN THE AGREEMENT, THE SERVICES ARE PROVIDED "AS IS", WITH ALL FAULTS, AND THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, ACCURACY AND EFFORT AS TO SUCH SERVICES SHALL BE WITH CUSTOMER. TRANE DISCLAIMS ANY AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES WITH RESPECT TO THE SERVICES AND THE SERVICES PROVIDED HEREUNDER, INCLUDING ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THAT THE SERVICES WILL OPERATE ERROR-FREE OR UNINTERRUPTED OR RETURN/RESPONSE TO INQUIRIES WITHIN ANY SPECIFIC PERIOD OF TIME.

March 2026
Supersedes November 2023v2

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WEST MIDDLE SCHOOL

2312 Baxter Road, Chesterfield, MO 63017

Parkway Project #: PN432501B

Cooling Tower & Chillers Replacement

BID/ PERMIT SET

Issue Date: June 22, 2026

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MEP / FP Engineer

RTM Engineering Consultants
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Certificate of Authority #
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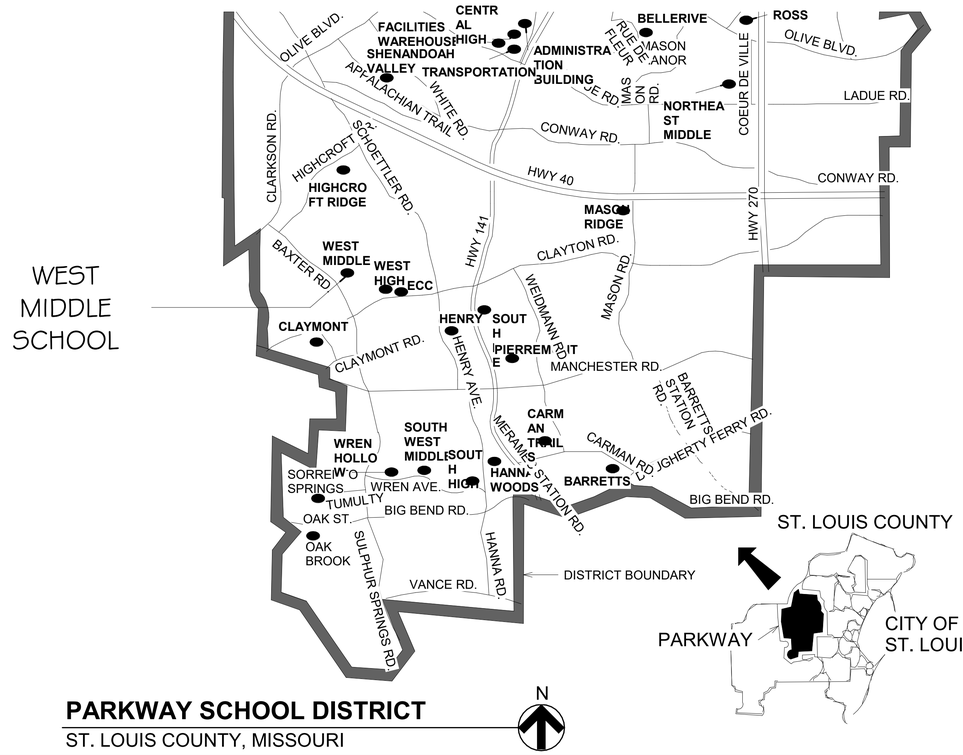
Civil Engineer

COLE & Associates, Inc.
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Certificate of Authority #001165
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Certificate of Authority #
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St. Louis, Missouri 63141
314.230.0182 tel
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PROJECT SITE



PARKWAY SCHOOL DISTRICT
ST. LOUIS COUNTY, MISSOURI

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M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES

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PINCHIN, LLC
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WEST MIDDLE SCHOOL
2312 Baxter Road, Chesterfield, MO 63017
Parkway Project #: PN432501B
Cooling Tower & Chillers Replacement

Parkway School District
363 N. Woods Mill Rd., Chesterfield, MO 63017
314.415.8231 tel

Project No: 25091

Revisions

Description	Date
ADDM 1	2026- 08-20

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STATE OF MISSOURI
MICHELLE R. WELLS
A-2021031961
ARCHITECT
6/22/26

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DATE: 2026-06-22

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SITE IMPROVEMENT PLANS

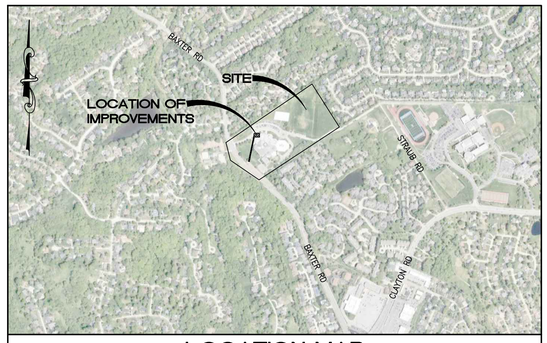
for

PARKWAY SCHOOL DISTRICT - WEST MIDDLE SCHOOL COOLING TOWER & CHILLERS REPLACEMENT

PART OF LOT 9 OF THE SUBDIVISION IN PARTITION OF THE GREENBERRY BAXTER ESTATE IN U.S. SURVEY 2011, TOWNSHIP 45 NORTH, RANGE 4 EAST, BEING CAUSE NO. 107 OF THE FEBRUARY TERM 1860 OF THE CIRCUIT COURT OF THE CITY (FORMER COUNTY) OF ST. LOUIS, MO, ACCORDING TO THE PLAT THEREOF FILED WITH SHERIFF'S REPORT OF SALE IN SAID CAUSE.

LEGEND

EXISTING		PROPOSED
460 / 459	CONTOURS	460 / 459
620.15	SPOT GRADE	621.25 (TOP OF CURB) (FINISH PAVEMENT)
	TREE LINE	
8"	TREE	
	BUSH	
	STORM MANHOLE	
	AREA INLET	
	CURB INLET	
	GRATED INLET	
	FLARED END SECTION	
12" RCP	STORM SEWER	
	GRATED MANHOLE	
69	STORM DESIGNATOR	22
DS	DOWNSPOUT	
DP	DRAINAGE PIPE	
	SWALE/SLOPE INDICATOR	
S	SANITARY MANHOLE	
8"VCP	SANITARY SEWER	SS
	CLEAN OUT	CO
A	SANITARY DESIGNATOR	A
	UTILITY POLE	
	GUIDE WIRE	
OU	OVERHEAD UTILITY	OU
UE	UNDERGROUND ELECTRIC	UE
	ELECTRIC MARKER	
	ELECTRIC METER	
	ELECTRIC BOX	
EPB	ELECTRIC PULL BOX	
	ELECTRIC TRANSFORMER	
E	ELECTRIC MANHOLE	
UT	UNDERGROUND TELEPHONE	UT
	FIBER OPTIC MARKER	
	CABLE MARKER	
G	GAS LINE	G
	GAS VALVE	GV
	GAS METER	GM
	GAS MARKER	
W	WATER LINE	W
	WATER VALVE	WV
	WATER METER	
	FIRE HYDRANT	
	SIGN	
	MAIL BOX	
B-1 405.5	TEST HOLE	
	LIGHT STANDARD	
X	FENCE	X
B	BOLLARD	
	RETAINING WALL	
	CONCRETE PAVEMENT	
	SILTATION FENCE	
AC	AIR CONDITIONER	
	FLAG POLE	
	MONITORING WELL	
PM	PARKING METER	
	PLANTER	
SCB	SPRINKLER CONTROL BOX	
SHD	SPRINKLER	
SVLV	SPRINKLER VALVE	
	TRAFFIC CONTROL BOX	
	TRAFFIC POLE	
	YARD LIGHT	
	GUARD RAIL	
	PROPERTY LINE	
	EASEMENT	
	SETBACK	
	INLET PROTECTION	
	WATTLE	
	CHECK DAM	
	USE IN PLACE	(UIP)
	TO BE REMOVED	(TBR)
	ADJUST TO GRADE	(ATG)
	TO BE REMOVED & REPLACED	(TBR&R)
	TYPICAL	(TYP)
	NOT TO SCALE	N.T.S.
	HIGH POINT IN GRADE	HP
	LOW POINT IN GRADE	LP
	TOP OF WALL	TW
	BOTTOM OF WALL	BW
	NOT IN CONTRACT	(NIC)



LOCATION MAP
(NOT TO SCALE)

1

STORMWATER MANAGEMENT NOTE:

LAND AREA DISTURBED = ±0.12 ACRES

DIFFERENTIAL RUNOFF RATE = ±0.03 CFS

NOTE:

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN).

PERTINENT DATA

OWNER	=	PARKWAY SCHOOL DISTRICT
SITE ADDRESS	=	2312 BAXTER RD CHESTERFIELD, MO 63017
SITE ACREAGE	=	±23.18 AC
EXISTING ZONING	=	"NU" NON-URBAN DISTRICT
PROPOSED ZONING	=	"NU" NON-URBAN DISTRICT
LOCATOR NUMBER	=	20R111202
WATERSHED	=	CREVE COEUR CREEK
FEMA MAP PANEL	=	29189C0281K, DATE: FEBRUARY 4, 2015

UTILITIES

SEWER SERVICE	=	METROPOLITAN ST. LOUIS SEWER DISTRICT 2350 MARKET ST. ST. LOUIS, MO 63103 PH. (314) 768-6272
FIRE DISTRICT	=	METRO WEST FIRE PROTECTION DISTRICT P.O. BOX 310 WILDWOOD, MO 63040 PH. (636) 458-2100
WATER SERVICE	=	MISSOURI AMERICAN WATER COMPANY 727 CRAIG RD. CREVE COEUR, MO 63141 PH. (688) 430-0820
CABLE SERVICE	=	CHARTER COMMUNICATIONS 815 CHARTER COMMONS TOWN & COUNTRY, MO 63107 PH. (314) 275-0025
GAS SERVICE	=	SPIRE 4118 SHREWSBURY AVE SHREWSBURY, MO 63119 PH: (314) 768-7767
ELECTRIC SERVICE	=	AMEREN-UE ELECTRIC COMPANY DORSETT DISTRICT 12121 DORSETT RD. MARYLAND HEIGHTS, MO 63043 PH. (314) 344-9575
PHONE SERVICE	=	AT & T 1030 WOODS MILL DR. TOWN AND COUNTRY, MO 63017 PH. (314) 720-8484

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C7.0	INLET DRAINAGE AREA MAP									
C7.1	PRE-POST DRAINAGE AREA MAP	●								

UTILITY INFORMATION:

UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THIS SURVEY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP-CALL BEFORE YOU DIG!

CALL 1-800-DIG-RITE (MISSOURI ONE CALL) TO HAVE LOCATIONS MARKED IN THE FIELD (SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE PRIOR TO CONSTRUCTION).

BENCHMARK INFORMATION

NAVD88 (ALC2011A) ELEV=574.06 FTUS (OR) 174.974 METER
NGVD29 ELEV=574.29 FTUS
ALUMINUM TABLET STAMPED "12-253" SET IN THE NORTHWEST END OF THE NORTHEAST HEADWALL OF A SOUBLE 6' X 8' BOS CULVERT UNDER BASTER ROAD IN FRINT IF PARKWAY WEST MIDDLE SCHOOL AT #2312 BAXTER ROAD, ROUGHLY 310 FEET SOUTHEAST OF THE ENTRANCE DRIVE TO THE SCHOOL, 45 FEET NORTHEAST OF THE CENTER OF BAXTER ROAD, 27 FEET EAST OF THE CENTER TOP OF AN AREA INLET, AND VERTICALLY OVER THE NORTHERN WALL OF THE NORTHERN BARREL OF DOUBLE BOX CULVERT.
SP MO EAST N=309501+/- E=246066+/- METER-ESTIMATED
ROUGH NAD83 LAT=38.622261°+/-(N/+) LONG=90.545177°(W/-)

SITE BENCHMARK INFORMATION

BM #1 - ELEV=604.12
SOUTHWEST CORNER OF OF RUNOFF PAD, LOCATED NORTHEAST 68.3 FEET FROM MH IN FIELD, NORTHWEST 27.8 FEET FROM A LIGHT POLE NEAR CURB, SOUTHEAST 5.3 FEET FROM THE SOUTHWEST CORNER OF FENCE SURROUNDING DUMPSTER ENCLOSURE.

BM #2 - ELEV=611.14
NORTHWEST CORNER OF MODULAR BLOCK RETAINING WALL, LOCATED 8.1 FEET FROM THE NORTH EDGE OF A BIKE RACK, SOUTHEAST 58.7 FEET FROM A LIGHT POLE IN THE MIDDLE OF THE WESTERNMOST ISLAND IN PARKING LOT, NORTHEAST 53.2 FEET FROM AN ELECTRICAL TRANSFORM NEAR BRICK ENCLOSURE.

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Parkway PN # 432501B
Building Renovation

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Chesterfield, MO 63017
314.415.8231 tel

Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

Construction Document Set

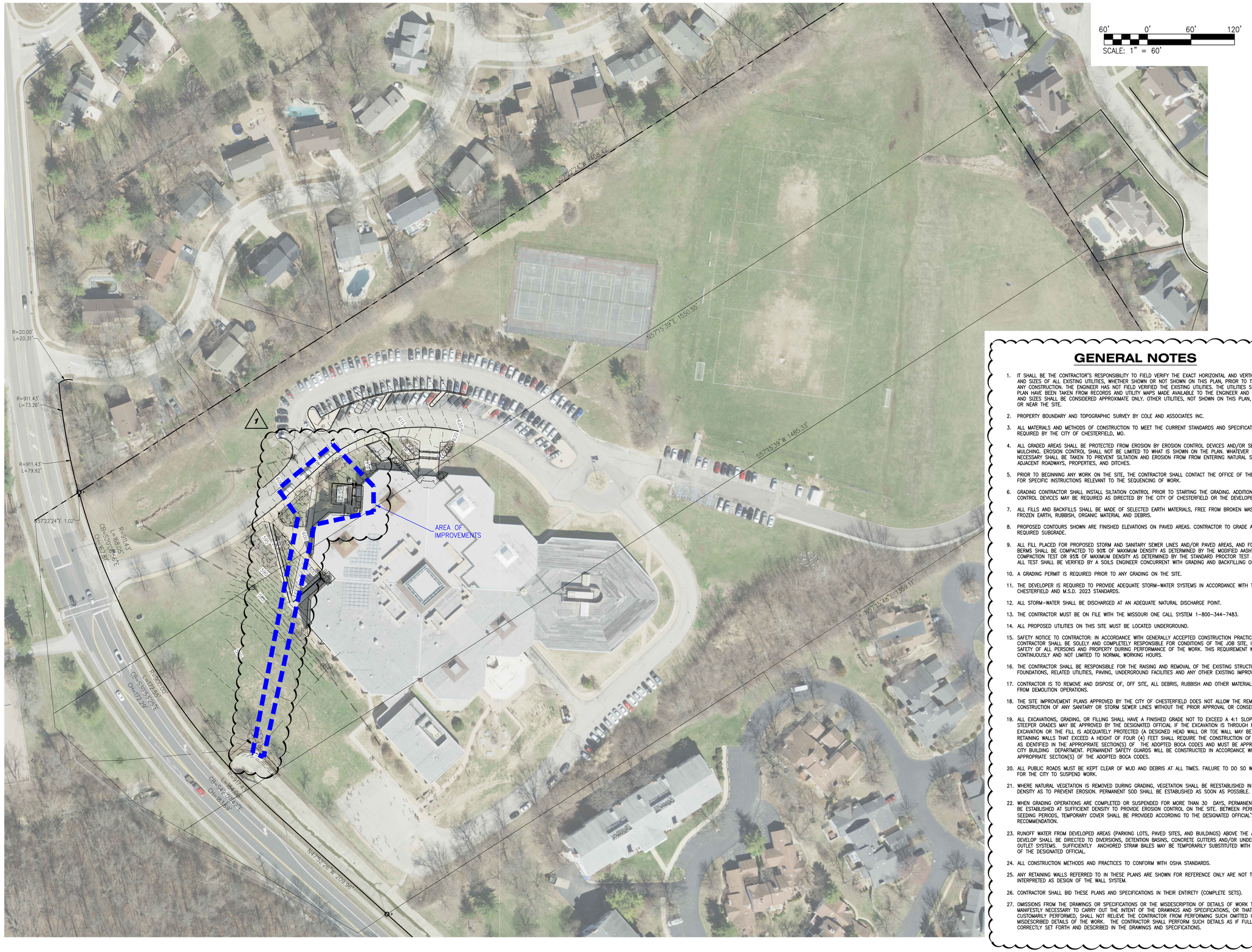
COVER SHEET

MSD P.NO. 26MSD-00249 BASE MAP: 20S

1

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GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS AND SIZES OF ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THIS PLAN, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER HAS NOT FIELD VERIFIED THE EXISTING UTILITIES. THE UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORDS AND UTILITY MAPS MADE AVAILABLE TO THE ENGINEER AND THE LOCATIONS AND SIZES SHALL BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES, NOT SHOWN ON THIS PLAN, MAY EXIST ON OR NEAR THE SITE.
2. PROPERTY BOUNDARY AND TOPOGRAPHIC SURVEY BY COLE AND ASSOCIATES INC.
3. ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS AS REQUIRED BY THE CITY OF CHESTERFIELD, MO.
4. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING. EROSION CONTROL SHALL NOT BE LIMITED TO WHAT IS SHOWN ON THE PLAN. WHATEVER MEANS NECESSARY SHALL BE TAKEN TO PREVENT SILTATION AND EROSION FROM FROM ENTERING NATURAL STREAMS AND ADJACENT ROADWAYS, PROPERTIES, AND DITCHES.
5. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE DEVELOPER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
6. GRADING CONTRACTOR SHALL INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING. ADDITIONAL SILTATION CONTROL DEVICES MAY BE REQUIRED AS DIRECTED BY THE CITY OF CHESTERFIELD OR THE DEVELOPER.
7. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
8. PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS. CONTRACTOR TO GRADE ALL AREAS TO REQUIRED SUBGRADE.
9. ALL FILL PLACED FOR PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, AND FOR DRAINAGE BERMS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL TEST SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
10. A GRADING PERMIT IS REQUIRED PRIOR TO ANY GRADING ON THE SITE.
11. THE DEVELOPER IS REQUIRED TO PROVIDE ADEQUATE STORM-WATER SYSTEMS IN ACCORDANCE WITH THE CITY OF CHESTERFIELD AND M.S.D. 2023 STANDARDS.
12. ALL STORM-WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT.
13. THE CONTRACTOR MUST BE ON FILE WITH THE MISSOURI ONE CALL SYSTEM 1-800-344-7483.
14. ALL PROPOSED UTILITIES ON THIS SITE MUST BE LOCATED UNDERGROUND.
15. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RAISING AND REMOVAL OF THE EXISTING STRUCTURES, INCLUDING FOUNDATIONS, RELATED UTILITIES, PAVING, UNDERGROUND FACILITIES AND ANY OTHER EXISTING IMPROVEMENTS.
17. CONTRACTOR IS TO REMOVE AND DISPOSE OF, OFF SITE, ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
18. THE SITE IMPROVEMENT PLANS APPROVED BY THE CITY OF CHESTERFIELD DOES NOT ALLOW THE REMOVAL OR CONSTRUCTION OF ANY SANITARY OR STORM SEWER LINES WITHOUT THE PRIOR APPROVAL OR CONSENT OF MSD.
19. ALL EXCAVATIONS, GRADING, OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 4:1 SLOPE (25 PERCENT). STEEPER GRADES MAY BE APPROVED BY THE DESIGNATED OFFICIAL IF THE EXCAVATION IS THROUGH ROCK OR THE EXCAVATION OR THE FILL IS ADEQUATELY PROTECTED (A DESIGNED HEAD WALL OR TOE WALL MAY BE REQUIRED). RETAINING WALLS THAT EXCEED A HEIGHT OF FOUR (4) FEET SHALL REQUIRE THE CONSTRUCTION OF SAFETY GUARDS AS IDENTIFIED IN THE APPROPRIATE SECTION(S) OF THE ADOPTED BOCA CODES AND MUST BE APPROVED BY THE CITY BUILDING DEPARTMENT. PERMANENT SAFETY GUARDS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE SECTION(S) OF THE ADOPTED BOCA CODES.
20. ALL PUBLIC ROADS MUST BE KEPT CLEAR OF MUD AND DEBRIS AT ALL TIMES. FAILURE TO DO SO WILL BE CAUSE FOR THE CITY TO SUSPEND WORK.
21. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION. PERMANENT SOD SHALL BE ESTABLISHED AS SOON AS POSSIBLE.
22. WHEN GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO THE DESIGNATED OFFICIAL'S RECOMMENDATION.
23. RUNOFF WATER FROM DEVELOPED AREAS (PARKING LOTS, PAVED SITES, AND BUILDINGS) ABOVE THE AREA TO DEVELOP SHALL BE DIRECTED TO DIVERSIONS, DETENTION BASINS, CONCRETE GUTTERS AND/OR UNDERGROUND OUTLET SYSTEMS. SUFFICIENTLY ANCHORED STRAW BALES MAY BE TEMPORARILY SUBSTITUTED WITH THE APPROVAL OF THE DESIGNATED OFFICIAL.
24. ALL CONSTRUCTION METHODS AND PRACTICES TO CONFORM WITH OSHA STANDARDS.
25. ANY RETAINING WALLS REFERRED TO IN THESE PLANS ARE SHOWN FOR REFERENCE ONLY ARE NOT TO BE INTERPRETED AS DESIGN OF THE WALL SYSTEM.
26. CONTRACTOR SHALL BID THESE PLANS AND SPECIFICATIONS IN THEIR ENTIRETY (COMPLETE SETS).
27. OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK THAT ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR THAT ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK. THE CONTRACTOR SHALL PERFORM SUCH DETAILS AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

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WEST MIDDLE SCHOOL

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Parkway PN # 432501B
Building Renovation

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Project No: 26-0048

Revisions

No.	Description	Date
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1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

Construction Document Set

OVERALL EXISTING CONDITIONS

C2.0

BASE MAP: 20S
MSD P.NO. 26MSD-00249

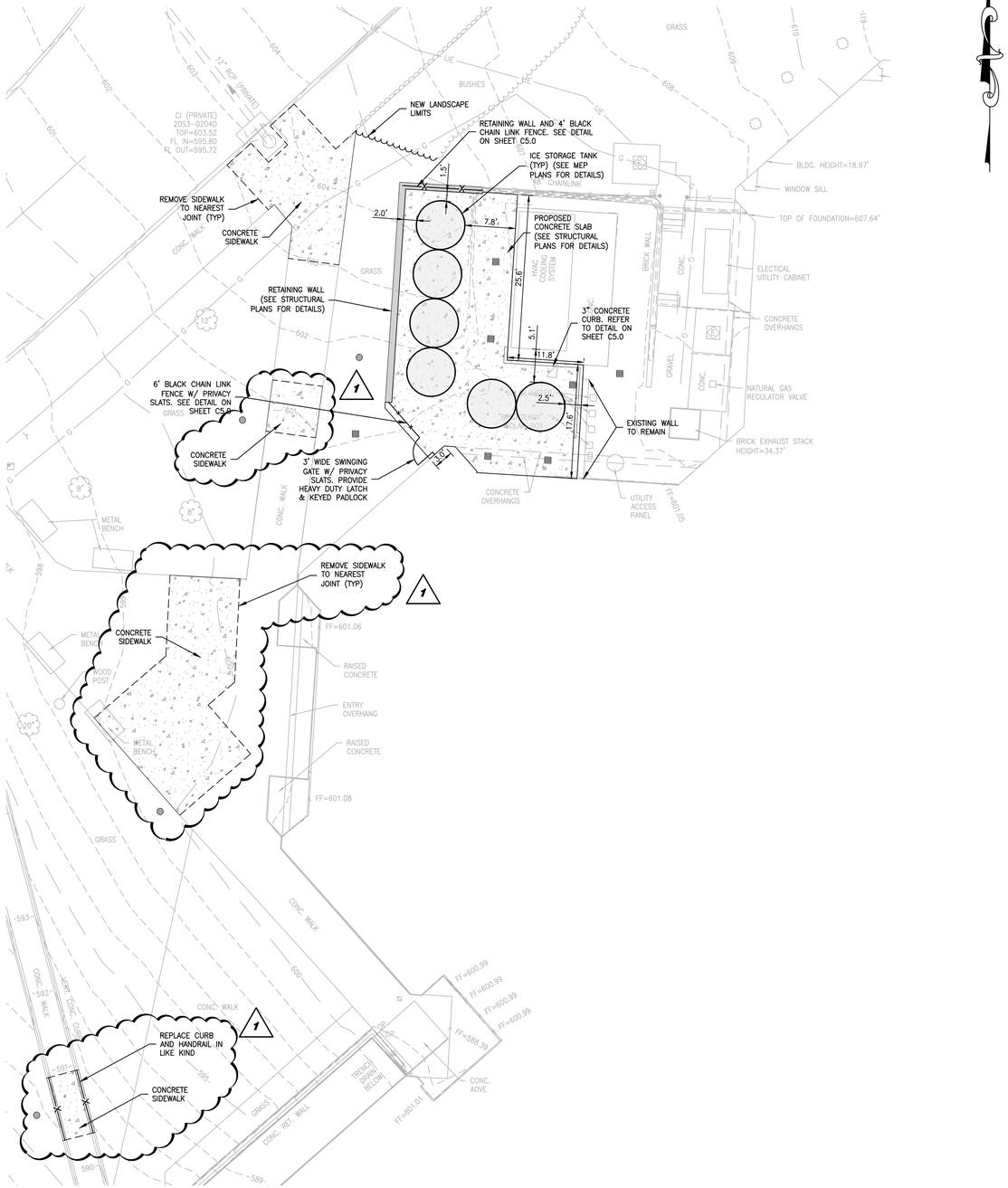
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1 DEMOLITION PLAN

SCALE: 1"=10' **REF. DWG.**



2 SITE & GEOMETRY PLAN

SCALE: 1"=10' **REF. DWG.**

10' 0' 10' 20'

SCALE: 1" = 10'

5 SCALE: 3" = 1'-0" (0, 0.25', 0.5', 1')
5 SCALE: 1 1/2" = 1'-0" (0, 0.5', 1', 2')
5 SCALE: 1" = 1'-0" (0, 0.5', 1', 2')
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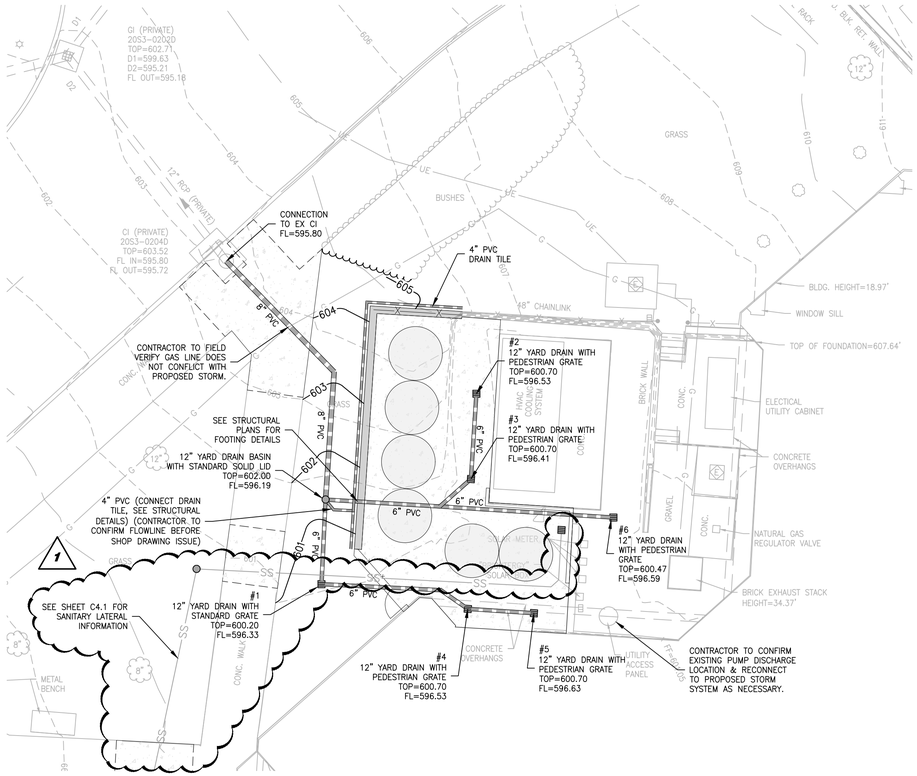
Construction Document Set

BASE MAP: 20S

MSD P-NO. 26MSD-00249

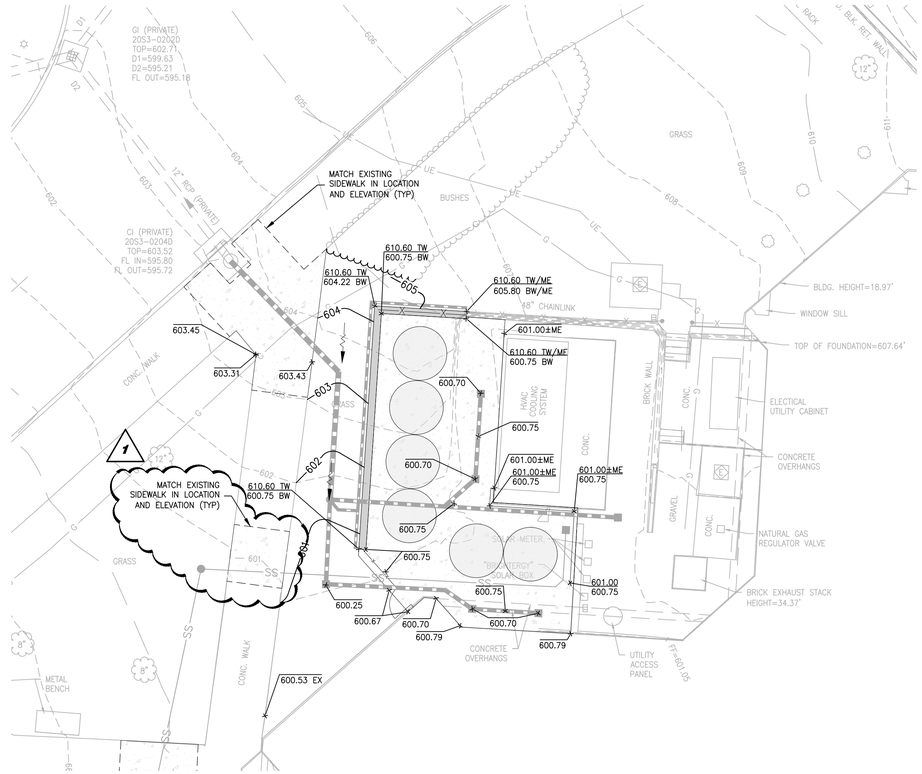
DEMOLITION & SITE PLAN

C3.0



1 UTILITY PLAN

SCALE: 1"=10' REF. DWG.



2 GRADING PLAN

SCALE: 1"=10' REF. DWG.

10' 0' 10' 20'

SCALE: 1" = 10'

EXISTING CONNECTIONS:

NO NEW DOMESTIC WATER TAPS ARE PROPOSED UNDER THIS PROJECT.

LIMITS OF DISTURBANCE:

THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.

STORM SEWER NOTES

1. ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.
2. FOR SEWER PIPE (STORM, SANITARY, OR COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST. FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWER WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE. MSD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH. THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS AND SIZES OF ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THIS PLAN, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER HAS NOT FIELD VERIFIED THE EXISTING UTILITIES. THE UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORDS AND UTILITY MAPS MADE AVAILABLE TO THE ENGINEER AND THE LOCATIONS AND SIZES SHALL BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES, NOT SHOWN ON THIS PLAN, MAY EXIST ON OR NEAR THE SITE
4. ALL FILL AREAS, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES, AND PAVED AREAS SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF "MODIFIED PROCTOR". FILL IS TO BE PLACED IN A MAXIMUM OF 9-INCH LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50-FOOT INTERVALS ALONG THE ROUTE OF THE PIPE; AT A MAXIMUM OF 2-FOOT VERTICALLY; AND LATERALLY ON EACH SIDE OF THE PIPE, AT A DISCHARGE EQUAL TO THE DEPTH OF FILL OVER THE PIPE. A COPY OF THESE RESULTS WILL BE SUBMITTED TO MSD PRIOR TO CONSTRUCTION APPROVAL.
5. TYPE "C" BEDDING PER M.S.D. STANDARDS IS REQUIRED FOR ALL PIPES IN ROCK EXCEPT AS NOTED.
6. ALL TRENCHES IN AREAS TO BE PAVED AND UNDER EXISTING PAVEMENT OR WITHIN PUBLIC R.O.W. SHALL BE GRANULARLY BACKFILLED WITH 3/4-INCH MINUS CRUSHED LIMESTONE IN ACCORDANCE WITH 2023 M.S.D. STANDARDS.
7. THE SOILS ENGINEER WILL VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO FILL PLACEMENT AND THAT ALL FILL UNDER STORM AND SANITARY SEWER LINES CONSTRUCTED ABOVE ORIGINAL GRADE, HAS BEEN COMPACTED TO 90% OF "MODIFIED PROCTOR". FILL IS TO BE PLACED IN A MAXIMUM 9" LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50' INTERVALS ALONG THE ROUTE OF THE PIPE, AT A MAXIMUM OF 2' VERTICAL, AND LATERALLY ON EACH SIDE OF THE PIPE, AT A DISTANCE EQUAL TO THE DEPTH OF FILL OVER THE PIPE. A COPY OF THESE RESULTS WILL BE SUBMITTED TO M.S.D. PRIOR TO CONSTRUCTION.
8. ANY ABANDONED SEWERS SHALL BE REMOVED OR COMPLETELY GROUT FILLED.
9. THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURE WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.
10. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT DISCHARGE POINTS.
11. PIPE JOINTS WITH ADAPTERS AND COUPLINGS SHALL BE SUPPLIED AND INSTALLED WITH 316 STAINLESS STEEL NUT AND BOLT CLAMPS (T-BOLT) CONFIGURATION; AND WITH STAINLESS STEEL SHEAR BANDS, BEING A MINIMUM OF TWELVE (12) MILS (MSD STD. CONST SPECS. PT. 2, SUBSECTION H11). WORM DRIVE HOSE CLAMPS AND CONCRETE BACKFILLING (CAUSTICITY) WILL NO LONGER BE ALLOWED AT THOSE JOINTS. GRANULAR BACKFILL SHOULD BE USED. IF FLOWABLE FILL IS REQUIRED, THE CONTRACTOR SHALL WRAP AND TAPE THE ADAPTERS AND COUPLINGS WITH A SIX (6) MIL POLYETHYLENE SHEET.
12. TRENCH BACKFILL COMPACTION AND TESTING REQUIREMENTS: THE CONTRACTOR IS TO REFER TO PART 4, SECTION H OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023 EDITION, TO ESTABLISH THE REQUIREMENTS FOR THE SPECIFIC TYPE OF BACKFILL BEING USED.
13. ALL PROPOSED INFRASTRUCTURE IS TO BE PRIVATE.

GRADING NOTES

1. ALL GRADES ARE TO FINISH GRADE OR FINISH PAVEMENT. THE CONTRACTOR SHALL DEDUCT PAVEMENT THICKNESS IN BUILDING AREAS TO OBTAIN SUBGRADE ELEVATIONS.
2. SILTATION CONTROL SHALL BE UTILIZED DURING CONSTRUCTION TO PREVENT SILTATION FROM RUNNING ONTO THE ADJACENT STREETS & PROPERTIES. NO STORM WATER SHALL DRAIN ONTO CITY STREETS, STATE ROADS, OR PRIVATE PROPERTY.
3. MAXIMUM SLOPE SHALL BE 4 HORIZ. TO 1 VERT. (4:1) THE CIVIL ENGINEER ASSUMES NO LIABILITY FOR SLOPES EXCEEDING THOSE RECOMMENDED BY GEOTECH. REPORT.
4. ALL GRADING AND DRAINAGE SHALL MEET THE CITY OF CHESTERFIELD SPECIFICATIONS AND AS SPECIFIED IN SOILS REPORT.
5. ADDITIONAL SILTATION CONTROL DEVICES MAY BE REQUIRED BY CITY OF CHESTERFIELD.
6. THE GRADING CONTRACTOR SHALL ESTABLISH THE SILTATION CONTROL AND BE INSPECTED BY THE CITY OF CHESTERFIELD PRIOR TO BEGINNING THE GRADING.
7. THE GRADING CONTRACTOR SHALL MAINTAIN THE SILTATION CONTROL DEVICES SO AS TO PREVENT SILT FROM BYPASSING THEM.
8. THE CITY OF CHESTERFIELD CITY ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCMENT OF THE GRADING TO VERIFY SILT CONTROL INSTALLATION, (GRADING PERMIT REQUIRED).
9. DURING THE GRADING OPERATION ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED AS DIRECTED BY THE CITY OF CHESTERFIELD.
10. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO CURRENT CITY OF CHESTERFIELD STANDARDS.
11. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GROUND COVER. SEE VEGETATION NOTES.
12. INSTALL SILTATION CONTROL FENCING AS SOON AS SITE IS BROUGHT TO FINAL GRADE.
13. EXISTING AREAS OF SOFT SOILS AND ORGANIC DEBRIS SHALL BE COMPLETELY REMOVED. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED AS APPROVED BY M.S.D.

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WEST MIDDLE SCHOOL

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Parkway PN # 432501B
Building Renovation

Parkway School District
363 N. Woods Mill Rd.
Chesterfield, MO 63017
314.415.8231 tel

Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

Construction Document Set

BASE MAP: 20S

MSD P.NO. 26MSD-00249

UTILITY & GRADING PLAN

C4.0

SCALE: 3" = 1'-0" 1" 0.5" 0
SCALE: 1 1/2" = 1'-0" 2" 1" 0.5" 0
SCALE: 1" = 1'-0" 2" 1" 0.5" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

USER: Austin Eisenhold TAB, Grade & Utility
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SANITARY SEWER NOTES

1. ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE ALL SUBSEQUENT CHANGES MADE THERETO.

   SOME RECENT CHANGES CONCERN PLASTIC PIPE MATERIALS AND PIPE FIELD TESTING AND PERFORMANCE, AND INCLUDE THE FOLLOWING:

   PART 2 – MATERIALS OF CONSTRUCTION

   SECTION G PIPE

   12. CORRUGATED POLYPROPYLENE PIPE

   SUBPARAGRAPHS A AND B SHALL BE DELETED IN THEIR ENTIRETY AND REPLACED WITH THE FOLLOWING:

   A. FOR USE IN SANITARY, STORM AND COMBINED SEWERS 12 TO 60 INCHES IN DIAMETER IT SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2764 "STANDARD SPECIFICATION FOR 6 TO 60 IN. POLYPROPYLENE (PP) CORRUGATED DOUBLE AND TRIPLE WALL PIPE AND FITTINGS FOR NON-PRESSURE SANITARY SEWER APPLICATIONS." PIPE SHALL HAVE A MINIMUM STIFFNESS OF 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412.

   B. IN ADDITION TO THE JOINT REQUIREMENTS INDICATED IN PART 2, SEC. H, ALL POLYPROPYLENE PIPE SHALL UTILIZE A DOUBLE GASKETED JOINT.

   PARAGRAPHS D AND E BELOW SHALL BE ADDED:

   D. PIPE FOR GRAVITY SEWER INSTALLATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321. CONSOLIDATION BY WATER (JETTING OR PUDDLING) SHALL NOT BE USED. CONSOLIDATION SHALL BE IN ACCORDANCE WITH MSD STANDARD CONSTRUCTION SPECIFICATIONS FOR TRENCH BACKFILL. PRICE FOR COMPACTED BACKFILL SHALL BE INCLUDED IN PIPE UNIT COST.

      1. FOR USE IN SANITARY AND COMBINED SEWER INSTALLATIONS, A REPRESENTATIVE FROM THE PIPE MANUFACTURER SHALL VISIT THE SITE WITHIN THE FIRST 100 FEET OF PIPE INSTALLATION. COORDINATION OF THIS SITE VISIT SHALL BE ARRANGED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE MSD INSPECTOR AT LEAST 24 HOURS' NOTICE OF THE PLANNED DATE AND TIME OF THE MANUFACTURER'S SITE VISIT.

      2. FOLLOWING THE SITE VISIT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A LETTER FROM THE PIPING MANUFACTURER SUMMARIZING THEIR OBSERVATIONS. AT A MINIMUM, THE LETTER SHALL:

         A) INDICATE THE DATE THE INITIAL SECTION OF PIPE WAS INSTALLED; AND

         B) VERIFY THAT THE INSTALLATION OCCURRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.

   E. TRENCH WIDTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. DISTRICT STANDARD PAYLINE WIDTHS BASED ON THE NOMINAL INSIDE PIPE DIAMETER SHALL APPLY.

2. NOTE– PIPE JOINTS WITH ADAPTERS AND COUPLINGS SHALL BE SUPPLIED AND INSTALLED WITH 316 STAINLESS STEEL NUT AND BOLT CLAMPS (T–BOLT) CONFIGURATION; AND WITH STAINLESS STEEL SHEAR BANDS, BEING A MINIMUM OF TWELVE (12) MILS (MSD STD. CONST. SPECS. PT. 2, SUBSECTION H 11). WORM DRIVE HOSE CLAMPS AND CONCRETE BACKFILLING (CAUSTICITY) WILL NO LONGER BE ALLOWED AT THOSE JOINTS. GRANULAR BACKFILL SHOULD BE USED. IF FLOWABLE FILL IS REQUIRED THE CONTRACTOR SHALL WRAP AND TAPE THE ADAPTERS AND COUPLINGS WITH A SIX (6) MIL POLYETHYLENE SHEET.

3. ALL MATERIALS AND METHODS OF CONSTRUCTION FOR SANITARY SEWERS TO MEET REQUIREMENTS OF METROPOLITAN ST. LOUIS SEWER DISTRICT (2023).

4. ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT (2023).

5. ALL TRENCHES UNDER AREAS TO BE PAVED SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH ST. LOUIS COUNTY AND/OR MSD SPECIFICATIONS.

6. CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM MANHOLE AND WORK UPSTREAM.

7. CLEANOUTS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL CHANGES IN DIRECTION OF FLOW FOR BUILDING LATERALS AND ANY SANITARY LATERAL OF 100 FEET OR LONGER.

8. ALL SANITARY SEWER BUILDING CONNECTIONS SHALL BE DESIGNED SO THAT THE MINIMUM VERTICAL DISTANCE FROM THE LOW POINT OF THE BASEMENT TO THE FLOWLINE OF A SANITARY SEWER AT THE CORRESPONDING BUILDING CONNECTION SHALL NOT BE LESS THAN THE DIAMETER OF THE PIPE PLUS THE VERTICAL DISTANCE OF 2–1/2 FEET.

9. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY BACKFILLED WITH 3/4 INCH MINUS CRUSHED WHITE ROCK ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH 2023 M.S.D STANDARDS AND SECTION 726.6.2.2 OF ST. LOUIS COUNTY STANDARDS FOR HIGHWAY CONSTRUCTION.

10. JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 90 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.

11. GAS, WATER, AND OTHER UNDERGROUND UTILITIES SHALL NOT CONFLICT WITH THE DEPTH OR HORIZONTAL LOCATION OF EXISTING OR PROPOSED SANITARY AND STORM SEWERS.

12. THE CONTRACTOR SHALL PREVENT ALL STORM, SURFACE WATER, MUD AND CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER SYSTEMS.

13. THE METROPOLITAN SEWER DISTRICT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION FOR COORDINATION OF INSPECTION.

14. ALL PVC SANITARY SEWER PIPE IS TO BE SDR–35 OR EQUAL WITH "CLEAN" 1/2 INCH TO 1 INCH GRANULAR STONE BEDDING UNIFORMLY GRADED. THIS BEDDING SHALL EXTEND FROM 4 INCHES BELOW THE PIPE TO SPRINGLINE OF PIPE. IMMEDIATE BACKFILL OVER PIPE SHALL CONSIST OF SAME SIZE "CLEAN" OR "MINUS" STONE FROM SPRINGLINE OF PIPE TO 6 INCHES ABOVE THE TOP OF PIPE.

15. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.

16. ALL SANITARY FLOW LINES AND TOPS BUILT WITHOUT ELEVATIONS FURNISHED BY THE ENGINEER WILL BE THE RESPONSIBILITY OF THE SEWER CONTRACTOR.

17. PRE–MANUFACTURED ADAPTERS SHALL BE USED AT ALL PVC AND DIP CONNECTIONS. RUBBER BOOT/MISSION–TYPE COUPLINGS WILL NOT BE ALLOWED.

18. ANY PERMITS, LICENSES, EASEMENTS, OR APPROVALS REQUIRED TO WORK ON PUBLIC OR PRIVATE PROPERTIES OR ROADWAYS ARE THE RESPONSIBILITY OF THE DEVELOPER.

19. ALL LATERALS ARE TO BE INSTALLED AT A MINIMUM 2% SLOPE.

20. THE SOILS ENGINEER WILL VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO FILL PLACEMENT AND THAT ALL FILLED AREAS, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES, AND PAVED AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% OF "MODIFIED PROCTOR". FILL IS TO BE PLACED IN A MAXIMUM 9" LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50' INTERVALS ALONG THE ROUTE OF THE PIPE, AT A MAXIMUM OF 2' VERTICAL, AND LATERALLY ON EACH SIDE OF THE PIPE, AT A DISTANCE EQUAL TO THE DEPTH OF FILL OVER THE PIPE. A COPY OF THESE RESULTS WILL BE SUBMITTED TO M.S.D. PRIOR TO CONSTRUCTION.

21. TYPE "C" BEDDING PER M.S.D. STANDARDS IS REQUIRED FOR PIPES IN ROCK.

22. THE CONTRACTOR MUST VERIFY SIZE AND LOCATION OF EXISTING MAIN PRIOR TO ANY CONSTRUCTION. IF THERE IS A DISCREPANCY, HE MUST NOTIFY THE ENGINEER IMMEDIATELY.

23. ANY ABANDONED SEWERS SHALL BE REMOVED OR COMPLETELY GROUT FILLED.

24. THE REMOVAL AND REPLACEMENT, OR REHABILITATION OF THE EXISTING STRUCTURES WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, THEN THE TOP SHALL BE ADJUSTED TO GRADE, IF NEEDED.

25. MSD PERMITS ARE REQUIRED PRIOR TO THE ABANDONMENT OR REMOVAL OF EXISTING SEWERS. TO RECEIVE MSD PERMITS THE PROJECT MUST HAVE MSD PLAN APPROVAL. NOTIFY MSD 48 HOURS PRIOR TO SEWER ABANDONMENT AND/OR REMOVAL.

26. TRENCH BACKFILL COMPACTION AND TESTING REQUIREMENTS:
    THE CONTRACTOR IS TO REFER TO PART 4, SECTION H OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023 EDITION, TO ESTABLISH THE REQUIREMENTS FOR THE SPECIFIC TYPE OF BACKFILL BEING USED.

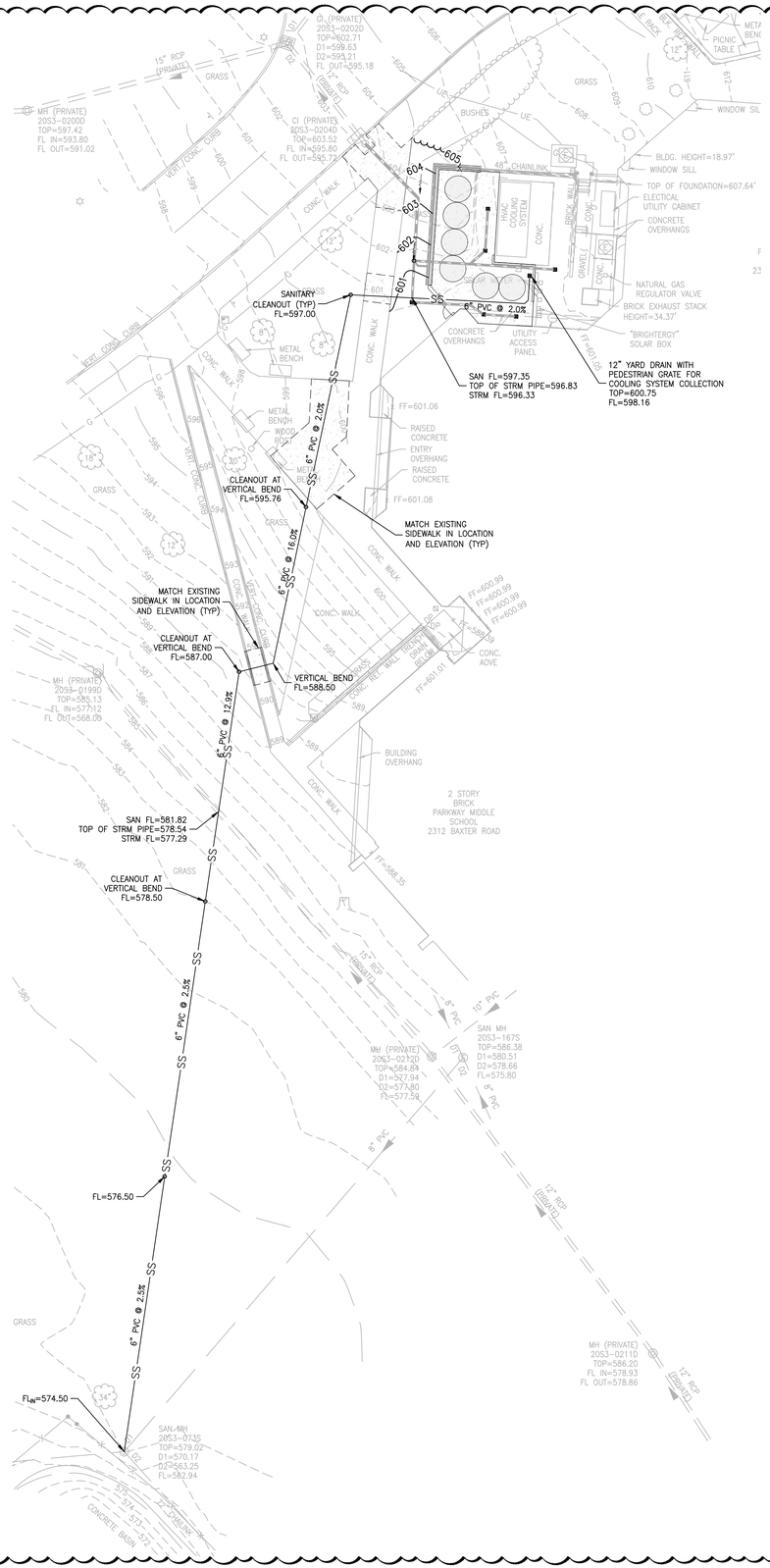
27. THE PARTIAL REMOVAL, REPLACEMENT, AND CONVERSION OF THE EXISTING STRUCTURES WILL BE DETERMINED BY THE MSD FIELD INSPECTOR. IF THE STRUCTURE IS DETERMINED TO REMAIN IN PLACE, AND THE TOP SECTION CAN BE CONVERTED AS PROPOSED AND STILL MEET MSD STANDARDS, THEN CONVERT AND ADJUST TO GRADE. OTHERWISE, THE ENTIRE STRUCTURE WILL BE REMOVED AND REPLACED WITH A NEW STRUCTURE.

28. MAINTENANCE OF THE SEWERS DESIGNATED "PUBLIC" SHALL BE THE RESPONSIBILITY OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

29. CONSTRUCTION OF STRAPPED PLUMBING SHALL BE CONSISTENT WITH MSD RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY SEWER AND STORMWATER DRAINAGE FACILITIES (FEBRUARY 2018), FIGURES 3–1.

30. ALL SEWERS ARE PRIVATE UNLESS NOTED OTHERWISE.

31. IF STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LINE OF THE UPPER PIPE.



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Parkway PN # 432501B
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Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

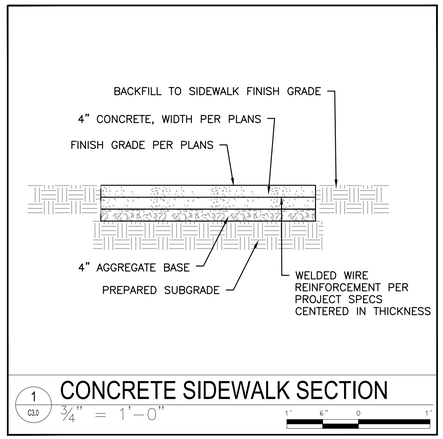
Construction Document Set

SANITARY LATERAL PLAN

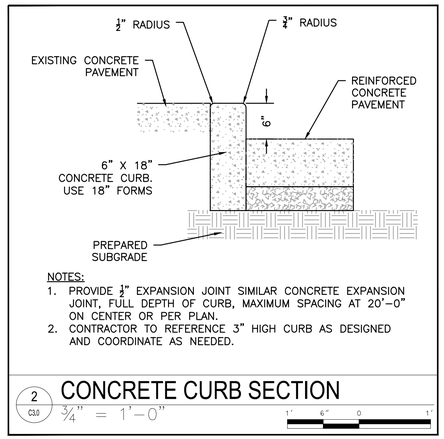
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MSD P.NO. 26MSD-00249 BASE MAP: 20S

USER: Austin Easterfield TAB: SEWR Latest
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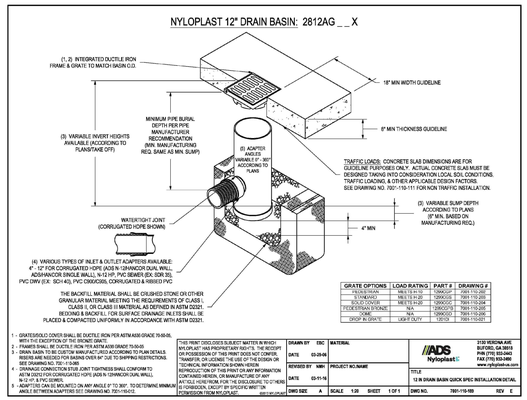


1 C3.0 — **CONCRETE SIDEWALK SECTION**
¾" = 1'–0"



NOTES:
1. PROVIDE ½" EXPANSION JOINT SIMILAR CONCRETE EXPANSION JOINT, FULL DEPTH OF CURB, MAXIMUM SPACING AT 20'–0" ON CENTER OR PER PLAN.
2. CONTRACTOR TO REFERENCE 3" HIGH CURB AS DESIGNED AND COORDINATE AS NEEDED.

2 C3.0 — **CONCRETE CURB SECTION**
¾" = 1'–0"



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
FLEX-N-GRATE	MEETS H-10	12MDGC	7001-110-200
STANDARD	MEETS H-20	12RDGS	7001-110-203
SOLID COVER	MEETS H-20	12SDGS	7001-110-204
TCG/EZSTRAP STRAP	N/A	12RDGTS	7001-110-205
TCG	MEETS H-20	12RDGT	7001-110-206
DROP IN GRATE	LIGHT DUTY	12DTG	7001-110-207

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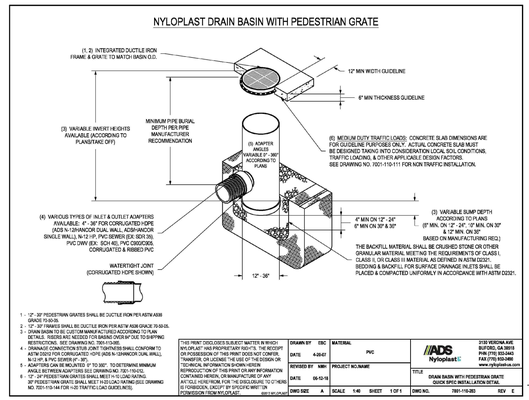
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DATE	03-29-06	
REVISED BY	MIH	PROJECT NO./NAME
DATE	03-01-16	
DWG SIZE	A	SCALE 1:20 SHEET 1 OF 1

ADS Nyloplast — 3100 VERONA AVE. BUFORD, GA 30518 PHN (770) 933-0440 FAX (770) 933-0486 www.nyloplastusa.com

TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-000 REV E

3 — **12" DRAIN BASIN DETAIL**
SCALE: N.T.S. REF. DWG. C4.0



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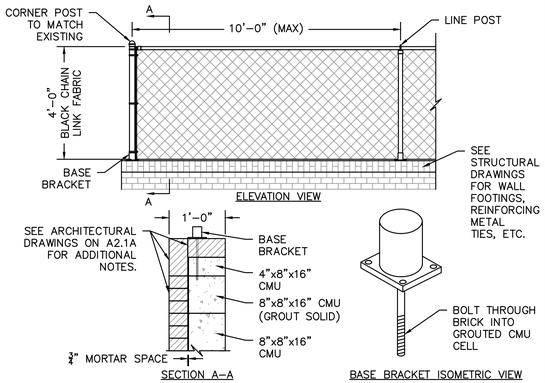
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DATE	4-26-07	PVC
REVISED BY	MIH	PROJECT NO./NAME
DATE	09-10-15	
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1

ADS Nyloplast — 3100 VERONA AVE. BUFORD, GA 30518 PHN (770) 933-0440 FAX (770) 933-0486 www.nyloplastusa.com

TITLE: DRAIN BASIN WITH PEDESTRIAN GRATE QUICK SPEC INSTALLATION DETAIL

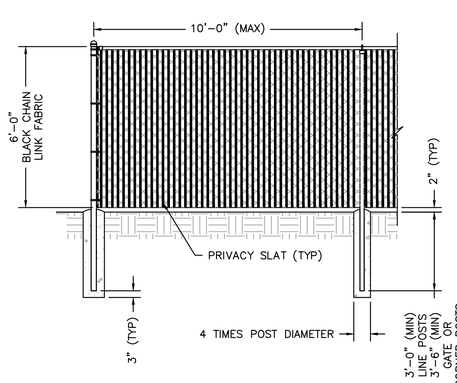
DWG NO. 7001-110-001 REV E

4 — **DRAIN BASIN WITH PEDESTRIAN GRATE DETAIL**
SCALE: N.T.S. REF. DWG. C4.0



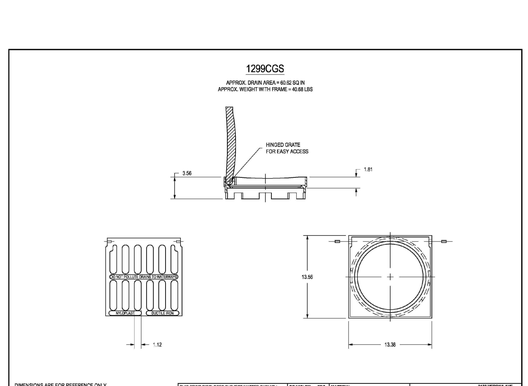
DETAIL NOTES:
1. SEE THE SITEWORK SPECIFICATIONS FOR THE SIZE, TYPE, AND GAUGE OF MATERIALS THAT WILL BE USED FOR CONSTRUCTION OF A CHAIN LINK FENCE.
2. NEW BRICK TO MATCH EXISTING. SUBMIT BRICK SAMPLES FOR APPROVAL BY OWNER & ARCHITECT.

5 — **FENCE ON RETAINING WALL DETAIL**
SCALE: N.T.S. REF. DWG. C3.0



DETAIL NOTES:
SEE THE SITEWORK SPECIFICATIONS FOR THE SIZE, TYPE, AND GAUGE OF MATERIALS THAT WILL BE USED FOR CONSTRUCTION OF A CHAIN LINK FENCE.

6 — **CHAINLINK FENCE DETAIL**
SCALE: N.T.S. REF. DWG. C3.0



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART II, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-034

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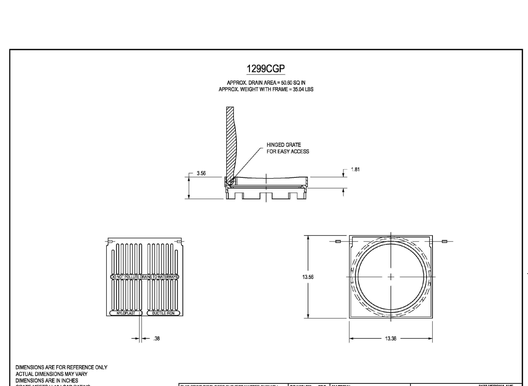
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DATE	03-04-06	DUCTILE IRON
REVISED BY	CCA	PROJECT NO./NAME
DATE	09-09-13	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

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TITLE: 12 IN STANDARD GRATE ASSEMBLY

DWG NO. 7001-110-003 REV D

7 — **12" STANDARD GRATE DETAIL**
SCALE: N.T.S. REF. DWG. C4.0



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-034

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DRAWN BY	ESC	MATERIAL
DATE	03-03-06	DUCTILE IRON
REVISED BY	CCA	PROJECT NO./NAME
DATE	09-09-13	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

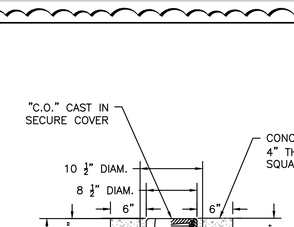
ADS Nyloplast — 3100 VERONA AVE. BUFORD, GA 30518 PHN (770) 933-0440 FAX (770) 933-0486 www.nyloplastusa.com

TITLE: 12 IN PEDESTRIAN GRATE ASSEMBLY

DWG NO. 7001-110-002 REV D

8 — **12" PEDESTRIAN GRATE DETAIL**
SCALE: N.T.S. REF. DWG. C4.0

1

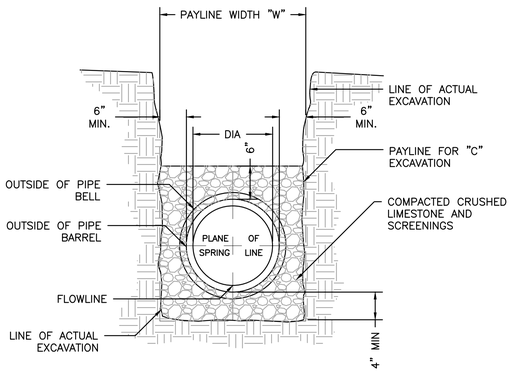


NOTE:
CLEANOUT IS J.R. SMITH MODEL 4261L

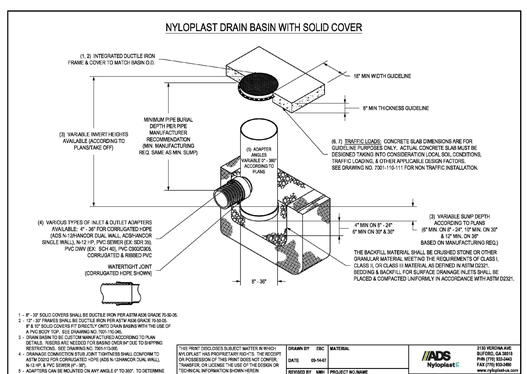
9 C4.1 — **CLEANOUT SECTION**
NOT TO SCALE

DETAIL DRAWINGS:

THE DETAIL DRAWINGS SHOWN HERE ARE ONLY FOR PRIVATE CONSTRUCTION THAT IS NOT UNDER MSD PERMITS. REFER TO MSD STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC SEWER CONSTRUCTION OR PRIVATE CONSTRUCTION UNDER MSD PERMITS.



10 — **PVC PIPE BEDDING DETAIL**
SCALE: N.T.S. REF. DWG. C4.0



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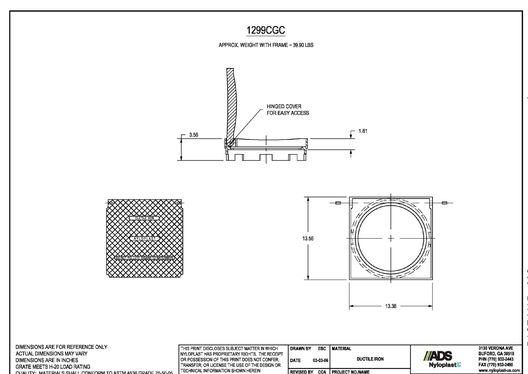
DRAWN BY	ESC	MATERIAL
DATE	09-04-07	
REVISED BY	MIH	PROJECT NO./NAME
DATE	09-10-15	
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1

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TITLE: DRAIN BASIN WITH SOLID COVER QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-206 REV E

11 — **DRAIN BASIN WITH SOLID COVER DETAIL**
SCALE: N.T.S. REF. DWG. C4.0



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DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
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DATE	03-03-06	DUCTILE IRON
REVISED BY	CCA	PROJECT NO./NAME
DATE	09-27-13	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

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TITLE: 12 IN SOLID COVER ASSEMBLY

DWG NO. 7001-110-204 REV D

12 — **12" SOLID COVER DETAIL**
SCALE: N.T.S. REF. DWG. C4.0

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636.349.1600 tel

RTM Engineering Consultants
MEP / FP Engineer
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St. Louis, MO 63127
314.725.5889 tel

COLE & ASSOCIATES, INC.
Civil Engineer
Certificate of Authority # 001165
401 S. 18th Street, Suite 200,
St Louis, MO 63103
314.984.9887

WEST MIDDLE SCHOOL

2312 Baxter Road, Chesterfield, MO 63017
Parkway PN # 432501B
Building Renovation

Parkway School District
363 N. Woods Mill Rd.
Chesterfield, MO 63017
314.415.8231 tel

Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

Construction Document Set

BASE MAP: 20S

MSD P.NO.: 26MSD-00249

SITE DETAILS

C5.0

USER: Austin Eisterhold TAB: Detail 1
DATE: August 21, 2026 - 11:36:29 AM
DRAWING: S:\JOBS\Jobs2026\26-0048\CAD\C-Plan\PlotSheets\0_PLAN_DETAIL_26-0048.dwg

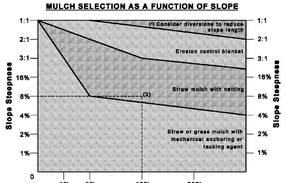
SWPPP NOTES

SITE OWNER: PARKWAY SCHOOL DISTRICT
SITE ADDRESS: 2312 BAXTER RD
CHESTERFIELD RD, 63017

SITE CONTACT/
SPECIAL INSPECTOR: TBD

1. REFER TO IMPROVEMENT PLANS FOR PERTINENT SITE MAP INFO.
2. REFER TO IMPROVEMENT PLANS FOR PERTINENT TOPOGRAPHICAL INFO.
3. TOTAL LAND ESTIMATED TO BE DISTURBED – APPROXIMATELY 0.12 AC
4. REFER TO DRAINAGE AREA MAP IN IMPROVEMENT PLANS FOR DRAINAGE PATTERNS.
5. REFER TO SWPPP PLAN FOR LOCATION OF ACCESS TO CONSTRUCTION SITE.
6. DESCRIPTION OF B.M.P.'S TO CONTROL EROSION AND SEDIMENTATION (INTERIM AND PERMANENT STABILIZATION PRACTICES)
   - A. CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING.
   - B. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREAS INTERSECT WITH PUBLIC ACCESS WAYS. DURING MUDDY CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. WHERE SEDIMENT IS TRANSPORTED ONTO PUBLIC ACCESS WAYS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
   - C. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR IN FINAL GRADING AND / OR EXCESS REMOVAL. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE MUST BE STABILIZED WITH TEMPORARY VEGETATION, OR COVERED AT THE END OF EACH WORKDAY, OR PERIMETER CONTROLS MUST BE IN PLACE TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.
   - D. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
   - E. STORM DRAINS SHALL BE INSTALLED AS EARLY AS POSSIBLE, PROVIDED THE INSTALLATION DOES NOT CONFLICT WITH OTHER CONSTRUCTION ACTIVITIES. INLET PROTECTION SHALL BE PLACED AROUND EACH INLET, IMMEDIATELY, UPON COMPLETION OF CONSTRUCTION OF EACH INLET. INLETS MAY BE UTILIZED FOR STORM WATER CONTROL DURING CONSTRUCTION, WITH THE SILT FENCE AND EROSION CONTROL MEASURES IN PLACE. CONTRACTOR SHALL TAKE PRECAUTIONS TO LIMIT SILT FROM ENTERING STORM PIPE, PRIOR TO INSTALLATION OF STORM STRUCTURES.
   - F. IF SEEDING OR ANOTHER VEGETATIVE EROSION CONTROL METHOD IS USED, IT SHALL BECOME ESTABLISHED WITHIN TWO WEEKS OR THE SITE SHALL BE RE–SEEDED OR A NON–VEGETATIVE OPTION EMPLOYED.
   - G. TECHNIQUES SHALL BE EMPLOYED TO ENSURE STABILIZATION ON STEEP SLOPES AND IN DRAINAGE WAYS.
   - H. THE ENTIRE SITE MUST BE STABILIZED, USING HEAVY MULCH LAYER OR ANOTHER METHOD THAT DOES NOT REQUIRE GERMINATION TO CONTROL EROSION, AT THE CLOSE OF THE CONSTRUCTION SEASON. REFER TO TABLE ON THIS SHEET FOR MULCHING RATES.
   - I. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.
   - J. ALL PROPOSED TURF AREAS ARE TO BE REPLACED WITH SOD ONCE CONSTRUCTION IS COMPLETED WITHIN FIVE DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.
   - K. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 5 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN 5 DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.
   - L. SEDIMENTATION CONTROLS SHALL ONLY BE REMOVED WITH CITY APPROVAL AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS ARE INSTALLED.
   - M. SOIL STABILIZATION SHALL BE COMPLETED WITHIN FIVE (5) DAYS OF CLEARING OR INACTIVITY IN CONSTRUCTION.
7. DESCRIPTION OF B.M.P.'S TO PREVENT POTENTIAL POLLUTANTS
   (CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)
   - A. SOLID NON–HAZARDOUS CONSTRUCTION WASTE – DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS.
   - B. HAZARDOUS WASTE – HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON–HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI–LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE, OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS, THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.
   - C. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.
   - D. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.
   - E. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASH DOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.
   - F. ON–SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.
   - G. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES ARE AVAILABLE TO SERVE THE NUMBER OF WORKERS ON–SITE.
   - H. PROVISIONS SHALL BE MADE FOR LITTER CONTROL.
8. DESCRIPTION OF B.M.P.'S TO REMAIN AFTER CONSTRUCTION
   - A. STORM DRAINS – THE DEVELOPMENT WILL BE SERVED BY A STORM WATER SYSTEM CONSISTING OF PIPE AND INLETS. ANY STORM DRAINAGE SYSTEM DESIGNATED AS "PRIVATE" SHALL BE OPERATED AND MAINTAINED BY THE OWNER. ANY STORM DRAINAGE SYSTEM DESIGNATED AS "PUBLIC" SHALL BE MAINTAINED BY METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD) UPON DEDICATION OF THE SEWERS TO THE DISTRICT.
   - B. TURF AREAS – TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
   - C. PAVED AREAS AND WALKWAYS – AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
9. CONTRACTOR TO COORDINATE WITH THE CITY AND DEVELOPER FOR OFF STREET PARKING AREA..
10. HAUL ROUTE OF EXCESS SPOILS TO BE DETERMINED BY SITE CONTRACTOR.
11. REFER TO B.M.P.'S DESCRIPTIONS (#6, #7, #8) AND THE SWPP PLAN TO REFERENCE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS SITE.
12. REFER TO SEEDING RATES/MIXTURES ON THIS SHEET.
13. PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT:
    B.M.P.'S SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT LADEN RUNOFF. OFFSITE AREAS SHALL BE REVIEWED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION TO THE ST. CHARLES DEPARTMENT OF PUBLIC WORKS OF THE B.M.P. MEASURES, INSTALLED AND SCHEDULED MAINTENANCE, AND REPAIRS.
14. PERMIT HOLDER
    - A. PERMIT HOLDER SHALL NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, CITY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BEST MANAGEMENT PRACTICES (BMP'S).
    - B. PERMIT HOLDER SHALL DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.
    - C. PROVIDE COPIES OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION, OR MAINTENANCE FOR ANY BEST MANAGEMENT PRACTICES (BMP'S).
    - D. MAINTAIN A CURRENT COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON THE SITE AT ALL TIMES. A COPY OF THE SWPPP WILL BE LOCATED AT THE CONSTRUCTION TRAILER AND BE AVAILABLE FOR VIEWING AT ALL TIMES.
15. PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES AND COUNTY, WILL BE REQUIRED.
16. ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

MULCH SELECTION AS A FUNCTION OF SLOPE



(1) For slopes steeper than 1:1, consider building a diversion above slope to divert water.
(2) Example: An 8% slope, 100 feet long, requires straw mulch with netting

GENERAL MULCH RECOMMENDATIONS TO PROTECT FROM SPLASH AND SHEET FLOW

Material	Rate Per Acre	Requirements	Notes
Straw	2 to 2.5 tons	Dry, unchopped grain straw is best to avoid weeds	Spread by hand or mechanical mulch be tackled or tied down
Wood Fiber or Wood Cellulose	0.5 to 1 ton		Use with hydro seeder; may be used to tack straw. Do not use in hot, dry weather.
Wood Chips	5 to 8 tons	Air dry. Add nitrogen fertilizer at 12 lb per ton	Apply with blower; chip handler, or by hand. Not for fine turf areas.
Bark	35 cu. yds.	Air dry, shredded, or hammermilled; or chips	Apply with mulch blower, chip handler or by hand. Do not use asphalt tack

SEEDING REQUIREMENTS

Dates for Seeding — Permanent Seeding	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Tall Fescue				O	O	O			O	O		
Smooth Brome				O	O	O			O	O		
Fescue & Brome				O	O	O	O		O	O		
Fescue, Rye & Bluegrass	A	A	A	O	O	O	P	P	O	O	P	P	A

Dates for Seeding — Temporary Seeding	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Rye or Sudan	A	A	O	O	O	O	O	O	O	O	A	A
Oats		A	O	O	O	O	O	O	O			

O= Optimum seeding dates
A= Acceptable seeding dates
P= Permitted seeding dates with reseeding 2 months later - Initially use 50% of seed and 75% of fertilizer. Reseed with additional 75% seed and remaining fertilizer.

Minimum Fertilizer and Seeding Rates

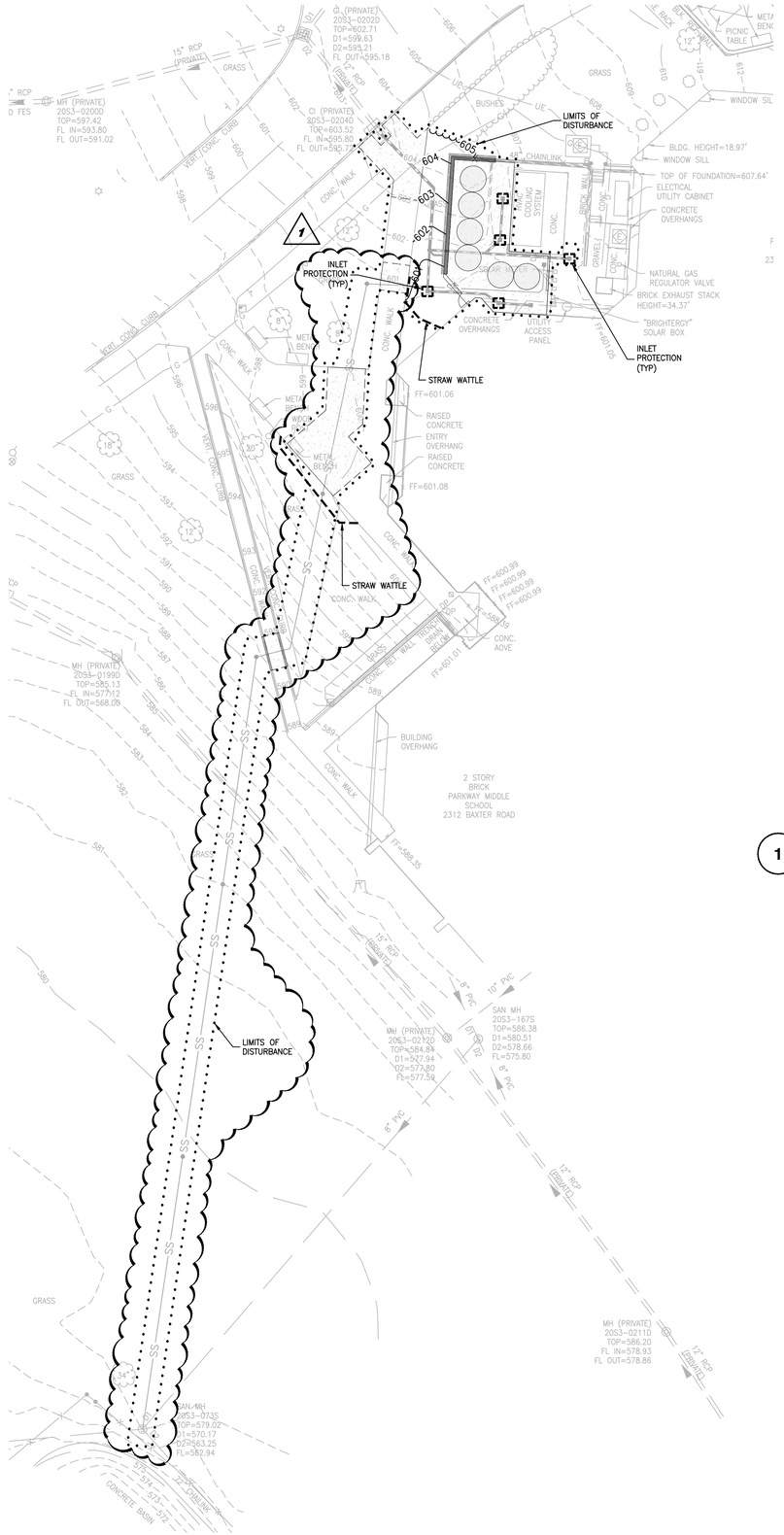
Permanent Seeding*	Pounds per acre	Pounds Per 1000 sq. ft
Tall Fescue	300	7.0
Smooth Brome	250	4.6
Mixture #1	250	5.7
Mixture #2	270	4.8

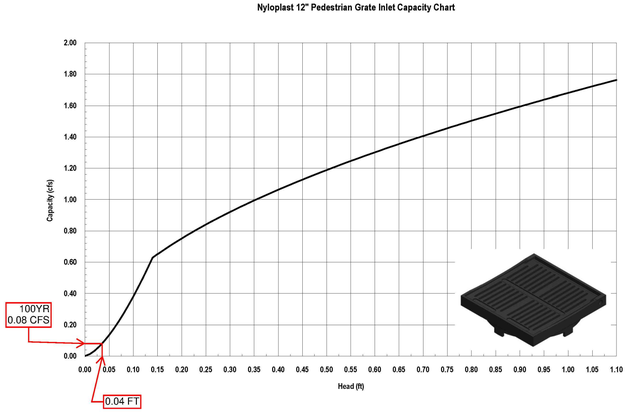
Mixture # 1 = Tall Fescue @ 150 pounds per acre and Brome @ 100 pounds per acre.
Mixture # 2 = Tall Fescue @ 150 pounds per acre, Perennial Rye grass @ 100 pounds per acre, and Kentucky Blue grass @ 10 pounds per acre.
* = Seeding rate for slopes in excess of 20% (5:1), shall be 10 pounds per 1000 sq. ft.

Temporary Seeding	Pounds per acre	Pounds Per 1000 sq. ft
Rye or Sudan	150	3.5
Oats	200	2.5

Fertilizer	Permanent Seeding (pounds per acre)	Temporary Seeding (pounds per acre)
Nitrogen	45	30
Phosphate	65	30
Potassium	65	30
Lime - ENM	800	600

ENM= Effective neutralizing material per State evaluation of quarried rock.

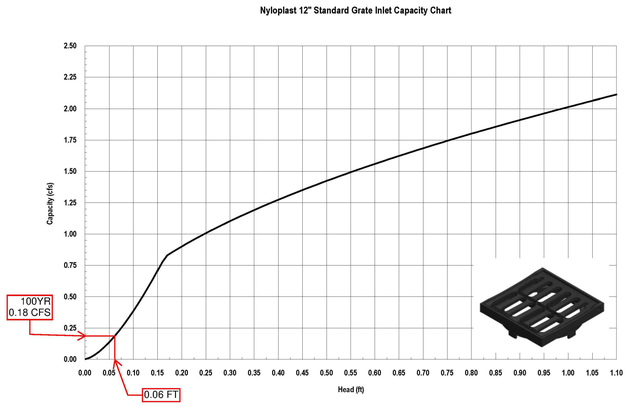

LIMITS OF DISTURBANCE
INLET PROTECTION (TYP)
STRAW WATTLE
STRAW WATTLE
LIMITS OF DISTURBANCE
INLET PROTECTION (TYP)
2 STORY BRICK PARKWAY MIDDLE SCHOOL 2312 BAXTER ROAD
BUILDING OVERHANG
CONCRETE RETAINING WALL
CONCRETE BASIN
CONCRETE OVERHANGS
UTILITY ACCESS PANEL
RAISED CONCRETE ENTRY OVERHANG
BRICK EXHAUST STACK HEIGHT=34.37'
"BRIGHTERGY" SOLAR BOX
NATURAL GAS REGULATOR VALVE
ELECTRICAL UTILITY CABINET
TOP OF FOUNDATION=607.64'
BLDG. HEIGHT=18.97'
WINDOW SILL
CHAINLINK
COOLING SYSTEM
PICNIC TABLE
BENCH
GRASS
BUSHES
CONC. WALK
CONC. CURB
VERT. CONC. CURB
MH (PRIVATE) 2053-02000 TOP=597.42 FL IN=593.80 FL OUT=591.02
CI (PRIVATE) 2053-02040 TOP=603.52 FL IN=595.80 FL OUT=595.52
CI (PRIVATE) 2053-02020 TOP=602.71 D1=599.63 D2=595.21 FL OUT=595.18
MH (PRIVATE) 2053-01990 TOP=585.13 FL IN=577.12 FL OUT=568.09
MH (PRIVATE) 2053-0211D TOP=586.20 FL IN=578.93 FL OUT=578.86
SAN MH 2053-0735 TOP=579.02 D1=570.17 D2=563.25 FL=582.94
SAN MH 2053-1675 TOP=586.38 D1=580.51 D2=578.66 FL=575.80
MH (PRIVATE) 2053-0212O TOP=584.94 D1=577.94 D2=577.80 FL=577.59
FF=601.06
FF=601.08
FF=601.01
FF=600.99
FF=600.99
FF=600.99
FF=586.35
FF=586.35
FF=586.35



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1 PEDESTRIAN GRATE CAPACITY

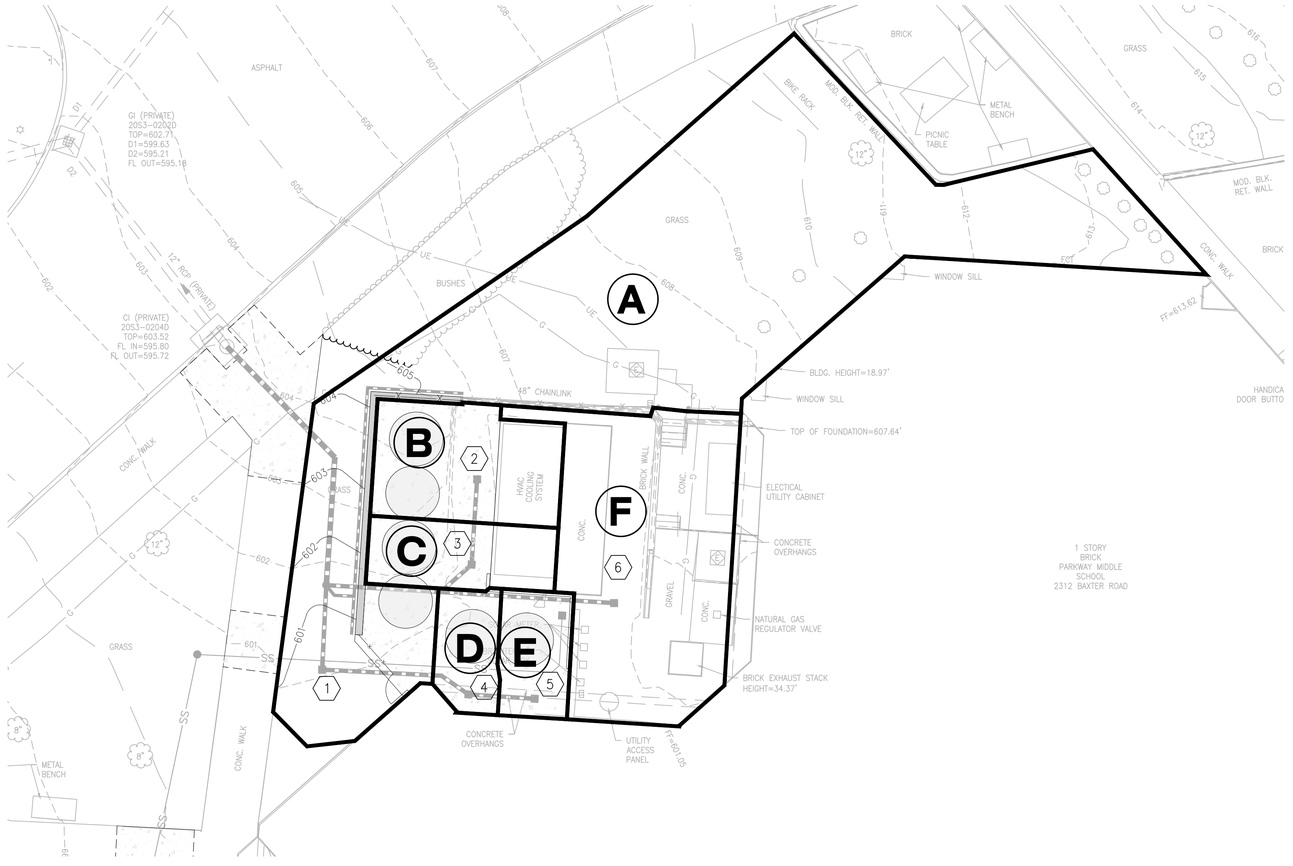
SCALE: N.T.S. **REF. DWG.**



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2 STANDARD GRATE CAPACITY

SCALE: N.T.S. **REF. DWG.**



STORMWATER MANAGEMENT NOTE:

LAND AREA DISTURBED = ±0.12 ACRES

NOTE:

1. ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME.

INLET DRAINAGE AREA TABLE

Designation	Pervious (sf)	Impervious (sf)	Total Area (sf)	Pervious (ac)	Impervious (ac)	TOTAL AREA (ACRES)	IMPERV %	PI (100 yr, 20 min)	PI (15 yr, 20 min)	Q100 (cfs)	Q15 (cfs)	DRAINAGE AREA TRIBUTARY STRUCTURE
A	2,957	268	3,225	0.07	0.01	0.07	8.3%	2.39	1.77	0.18	0.13	1
B	-	417	417	-	0.01	0.01	100.0%	4.77	3.54	0.05	0.03	2
C	-	246	246	-	0.01	0.01	100.0%	4.77	3.54	0.03	0.02	3
D	-	149	149	-	0.00	0.00	100.0%	4.77	3.54	0.02	0.01	4
E	-	176	176	-	0.00	0.00	100.0%	4.77	3.54	0.02	0.01	5
F	539	479	1,018	0.01	0.01	0.02	47.0%	3.39	2.52	0.08	0.06	6

THIS SHEET IS FOR DRAINAGE CALCULATION PURPOSES ONLY AND NOT TO BE USED AS CONSTRUCTION PLANS

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WEST MIDDLE SCHOOL
2312 Baxter Road, Chesterfield, MO 63017
Parkway PN # 432501B
Building Renovation

Parkway School District
363 N. Woods Mill Rd.
Chesterfield, MO 63017
314.415.8231 tel

Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

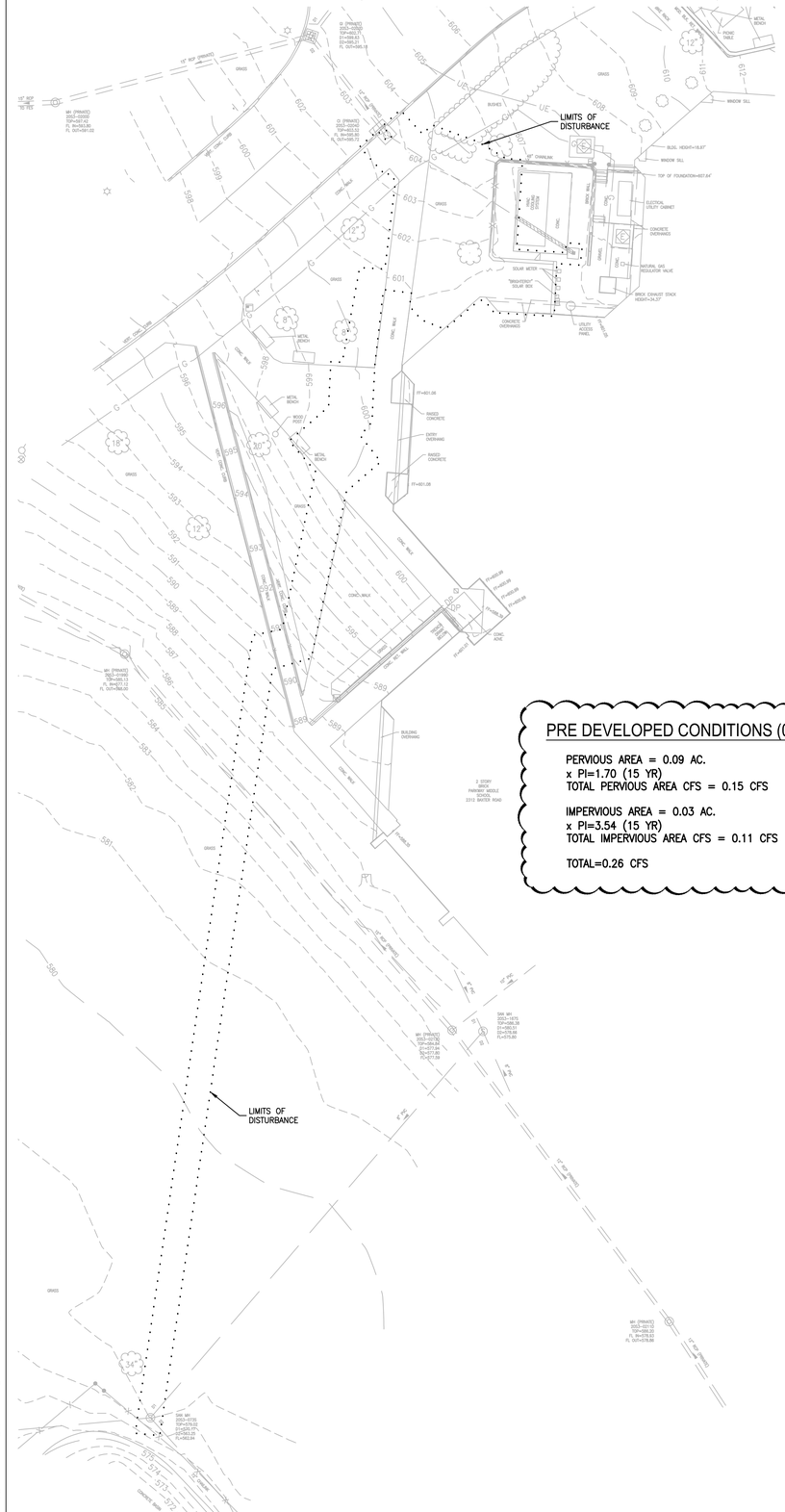
Construction Document Set

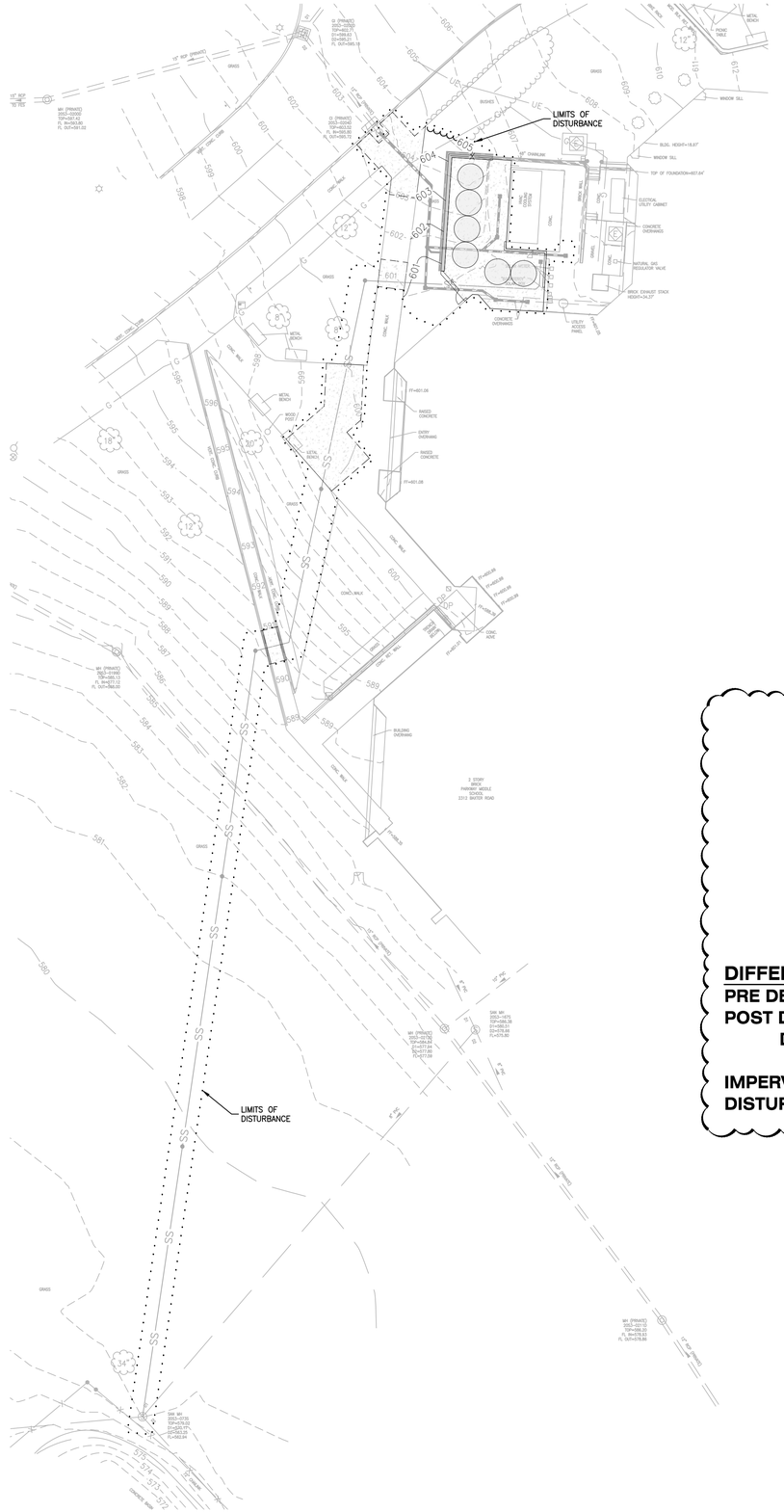
INLET DRAINAGE AREA MAP

C7.0

MSD P.NO.: 26MSD-00249 BASE MAP: 20S

USER: Austin Eisterhold TAB: Inlet DIM
DATE: August 21, 2026 - 11:36:59 AM
DRAWING: S:\JOBS\Jobs2026\26-0048\CAD0\C-Plan\PrintSheets\0_IPLAN_DIM_26-0048.dwg





20' 0' 20' 40'

SCALE: 1" = 20'

1

PRE DEVELOPED CONDITIONS (0.12 AC)

PERVIOUS AREA = 0.09 AC.
x PI=1.70 (15 YR)
TOTAL PERVIOUS AREA CFS = 0.15 CFS

IMPERVIOUS AREA = 0.03 AC.
x PI=3.54 (15 YR)
TOTAL IMPERVIOUS AREA CFS = 0.11 CFS

TOTAL=0.26 CFS

1

POST DEVELOPED CONDITIONS (0.12 AC)

PERVIOUS AREA = 0.07 AC.
x PI=1.70 (15 YR)
TOTAL PERVIOUS AREA CFS = 0.12 CFS

IMPERVIOUS AREA = 0.05 AC.
x PI=3.54 (15 YR)
TOTAL IMPERVIOUS AREA CFS = 0.18 CFS

TOTAL=0.30 CFS

DIFFERENTIAL RUNOFF CALCULATIONS (15YR)

PRE DEVELOPED CONDITIONS	**0.26 CFS**
POST DEVELOPED CONDITIONS	**0.30 CFS**
DIFFERENTIAL RUNOFF RATE	**+0.04 CFS**

IMPERVIOUS AREA INCREASE = 0.02 ACRES
DISTURBED AREA = 0.12 ACRES

SCALE: 3" = 1'-0" | 1" | 0.5" | 0.25" | 0
SCALE: 1 1/2" = 1'-0" | 2" | 1" | 0.5" | 0
SCALE: 1" = 1'-0" | 2" | 1" | 0.5" | 0
SCALE: 3/4" = 1'-0" | 3" | 2" | 1" | 0
SCALE: 1/2" = 1'-0" | 4" | 2" | 1" | 0
SCALE: 1/4" = 1'-0" | 8" | 4" | 2" | 0
SCALE: 1/8" = 1'-0" | 16" | 8" | 4" | 0
SCALE: 1/16" = 1'-0" | 32" | 16" | 8" | 0

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Parkway PN # 432501B
Building Renovation

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Chesterfield, MO 63017
314.415.8231 tel

Project No: 26-0048

Revisions

No.	Description	Date
	BID / PERMIT SET	06/22/2026
1	MSD COMMENTS	08/20/2026
1	ADDM 1	08/21/2026

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DATE: 08/21/26

Construction Document Set

PRE-POST DRAINAGE AREA MAP

C7.1

BASE MAP: 20S
MSD P.NO. 26MSD-00249

USER: Austin Eberhard TAB: PRE_POST
DATE: August 21, 2026 - 11:37:02 AM
DRAWING: S:\JOBS\Jobs2026\26-0048\CADD\C--Plan\PlotSheets\0_PLAN_DAM_26-0048.dwg

SCALE: 3" = 1'-0"

SCALE: 1 1/2" = 1'-0"

SCALE: 1" = 1'-0"

SCALE: 3/4" = 1'-0"

SCALE: 1/2" = 1'-0"

SCALE: 1/4" = 1'-0"

SCALE: 1/8" = 1'-0"

SCALE: 1/16" = 1'-0"

8/21/2026 9:40:47 AM

PARKWAY WEST MIDDLE CHILLER CODE REVIEW

ZONING - MUNICIPAL, CHESTERFIELD
LOCATOR# 20R111202, LAND USE 681, MUNICODE 105
AHJ: CITY OF CHESTERFIELD, ST LOUIS COUNTY,
METRO WEST FIRE PROTECTION DISTRICT

ST LOUIS COUNTY APPLICABLE CODES:
2015 - INTERNATIONAL BUILDING CODE (IBC)
2015 - INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2014 - NATIONAL ELECTRICAL CODE (NEC)
2015 - UNIFORM PLUMBING CODE (UPC)
2015 - INTERNATIONAL MECHANICAL CODE (IMC)
2015 - INTERNATIONAL ENERGY CONSERVATION CODE
2015 - INTERNATIONAL FUEL GAS CODE (IFGC)

METRO WEST FIRE PROTECTION DISTRICT APPLICABLE CODES:
2021 - INTERNATIONAL FIRE CODE (IFC) & LOCAL ORDINANCES
2021 - INTERNATIONAL BUILDING CODE (IBC)
2021 - INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 - INTERNATIONAL MECHANICAL CODE (IMC)
2021 - INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC)
ORDINANCE NO. 121

GENERAL SCOPE OF WORK: THIS PROJECT CONSISTS OF: REPLACEMENT OF COOLING TOWER CTW-001, CHILLERS CHR-001 & CHR-002, INSTALLATION OF 6 NEW ICE STORAGE TANKS AND INTEGRATE INTO COOLING SYSTEM, AND SITE GRADING, STORM WATER, INSTALLATION OF SANITARY LATERAL, SITE IMPROVEMENTS AND ANY MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS AS REQUIRED FOR THE INSTALLATION OF THE NEW EQUIPMENT. ANY ASBESTOS ABATEMENT AS REQUIRED FOR IMPLEMENTATION OF THE ABOVE WORK (TO BE PERFORMED BY OWNER'S ABATEMENT CONTRACTOR.)

WORK IS LIMITED TO MINOR ALTERATIONS TO AN EXISTING FACILITY

RENOVATION, SPRINKLERED - NO
EXISTING BUILDING USE GROUP (305): EDUCATIONAL GROUP E
EXISTING BUILDING CONSTRUCTION TYPE (602.2): II-B
(NOTE: ASSEMBLY SPACES SUCH AS CAFETERIA , AUDITORIUMS, GYMS, LIBRARIES AND SIMILAR SPACES ARE ANCILLARY TO EDUCATION OCCUPANCY, DO NOT CONSTITUTE SEPARATE OCCUPANCIES FOR THE PURPOSE OF MIXED USE CALCULATIONS.)

ACTUAL EXISTING BUILDING HEIGHT & NEW (NO CHANGE)

ACTUAL EXISTING BUILDING AREA (NO CHANGE)
(NOTE: INSTALLATION OF COMPLETE FIRE SUPPRESSION SYSTEM IS SCHEDULED IN UPCOMING WEST MIDDLE SCHOOL RENOVATION PROJECT.)

EXISTING FIRE-RESISTANCE RQMTS. FOR BUILDING ELEMENTS:
(PER 2015 IBC TABLE 601)

PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS & PARTITIONS	
EXTERIOR (IBC 2015 T 602, 2021 T 705.5)	0
INTERIOR	0
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0
ROOF CONSTRUCTION & SECONDARY MEMBERS	0
CORRIDOR (>30) OCC SEPARATION (TABLE 1020.1)	
(NS)	1 HR.

NUMBER OF EXITS - (NO CHANGE)

EGRESS WIDTH - (NO CHANGE)

CONFIGURATION OF EMERGENCY EGRESS ROUTES - (NO CHANGE)

LEGEND

1 HOUR FIRE BARRIER
2 HOUR FIREWALL

STORM SHELTER AREA

EGRESS ACTUAL / MAX CAPACITY — EGRESS CAPACITY OF DOOR & DIRECTION

EGRESS ACTUAL / MAX CAPACITY — EGRESS CAPACITY OF STAIR & DIRECTION

FEC — FIRE EXTINGUISHER CABINET

NAME OF SPACE
FUNCTION
PER TABLE 1004.1.1
AREA (SF)
AREA OF SPACE

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636.349.1600 tel

RTM Engineering Consultants
MEP / FP Engineer
Project Number: 25.B20200.6797
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314.725.5889 tel

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Project Number: 26-0048 Certificate of Authority #001165
401 S. 18th Street, Suite 200, Suite 200
St Louis, MO 63103
314.984.9887

WEST MIDDLE SCHOOL

2312 Baxter Road, Chesterfield, MO 63017
Parkway Project #: PN432501B
Cooling Tower & Chillers Replacement

Parkway School District
363 N. Woods Mill Rd.
Chesterfield, MO 63017
314.415.8231 tel

Project No: 25091

Revisions

Description	Date
ADDM 1	2026- 08-20

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MICHELLE R. WELLS
NOTARY
A-2021031961
ARCHITECT
6/22/26

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DATE: 2026-06-15

BID/ PERMIT SET

CODE BLOCK

A0.1

STRUCTURAL ABBREVIATIONS

#	POUND(S), NUMBER
&	AND
(E)	EXISTING
@	AT
AB	ANCHOR BOLT (S)
ADDL	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
B/FTG	BOTTOM OF FOOTING
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BMD	BOTTOM OF METAL DECK
BN	BOUNDARY NAIL
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BS	BOUNDARY SCREW
BTWN	BETWEEN
CANT	CANTILEVER(ED)
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONTROL OR CONST JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DBL	DOUBLE
DC	DEMAND CRITICAL (WELD)
deg	DEGREE
DET	DETAIL(S)
DF	DOUGLAS FIR
DFL	DOUGLAS FIR LARCH
dia	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EL	ELEVATION
ELEV	ELEVATOR
EMB	EMBEDMENT
EN	EDGE NAIL
EOJ	END OF JOIST
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
ES	EDGE SCREW
ETC	ET CETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR
FIN FLR	FINISH FLOOR
FLR	FLOOR
FN	FIELD NAILING
FRMG	FRAMING
FRT	FIRE-RETARDENT TREATED
FS	FAR SIDE
FS	FIELD SCREW
FTG	FOOTING
FV	FIELD VERIFY
ga	GAUGE
GALV	GALVANIZE(D)
GLB	GLULAM BEAM
HDR	HEADER
HGR	HANGER

STRUCTURAL ABBREVIATIONS

HK	HOOK
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
INT	INTERIOR
ISF	INSIDE FACE
J/BRG	JOIST BEARING
JG	JOIST GIRDER
JG/BRG	JOIST GIRDER BEARING
JST	JOIST
JT	JOINT
kip	1,000 POUNDS
ksi	kips PER SQUARE INCH
LB	POUND
LG	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
oc	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OSF	OUTSIDE FACE
PAF	POWER-ACTUATED FASTENER
PARA	PARAPET
PEMB	PRE-ENGINEERED METAL BUILDING (MANUFACTURER)
PIL	PILASTER
PL	PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
QT	QUANTITY
REINF	REINFORCED, REINFORCING
REQD	REQUIRED
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SD	SNOW DRIFT
SHTG	SHEATHING
SIM	SIMILAR
SL	SNOW LOAD
SOG	SLAB ON GRADE
SPF	SPRUCE PINE FIR
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SYP	SOUTHERN YELLOW PINE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/BRG	TRUSS BEARING
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/PARA	TOP OF PARAPET
T/PIL	TOP OF PILASTER
T/STL	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
USGS	US GEOLOGICAL SURVEY
VAR	VARIES
VERT	VERTICAL
w/	WITH
WHS	WELDED HEADED STUD(S)
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

BUILDING CODES AND STANDARDS USED FOR DESIGN

1. INTERNATIONAL BUILDING CODE 2015 EDITION
   ASCE 7-10
   RISK CATEGORY: I

DESIGN LOADS

1. DESIGN LOADS:
   ICE STORAGE TANKS — 34,000 LBS (OPERATING WEIGHT)
2. SNOW LOAD DESIGN CRITERIA
3. WIND LOAD DESIGN CRITERIA
   ULTIMATE WIND SPEED: — 115 MPH (3 SEC GUST)
   EXPOSURE CATEGORY: — C
4. SEISMIC LOAD DESIGN CRITERIA
   IMPORTANCE FACTOR, I: — 1.25
   SITE CLASS: — D
   SPECTRAL RESPONSE ACCELERATIONS: — Ss=0.48g, S1=0.18g (2)
   Sds=0.379g, Sd1=0.224g
   SEISMIC DESIGN CATEGORY: — D

COMPONENT & CLADDING (C & C) DESIGN WIND PRESSURES

1. SURFACE PRESSURES ARE GIVEN IN THE TABLE BELOW IN PSF AND ARE BASED ON THE TRIBUTARY AREA IN SQUARE FEET (SF) OF THE MEMBER BEING DESIGNED. LINEAR INTERPOLATION BETWEEN VALUES SHOWN IS ACCEPTABLE. EXTRAPOLATION OF VALUES ABOVE LARGEST TRIBUTARY AREA IS NOT ACCEPTABLE.
2. REFER TO ASCE 7 DIAGRAMS FOR THE LOCATION OF WIND PRESSURE ZONES BASED ON ADOPTED CODE YEAR.
3. POSITIVE PRESSURES ACT TOWARD THE BUILDING, NEGATIVE & OVERHANG PRESSURES ACT AWAY FROM THE BUILDING AND ARE APPLIED NORMAL TO THE C &C SURFACE.
4. DELEGATED DESIGNERS ARE RESPONSIBLE FOR DESIGNING EACH C & C FOR THE MAXIMUM POSITIVE AND NEGATIVE WIND PRESSURES BASED ON ASCE 7 LOAD COMBINATIONS.
5. NO C & C SHALL BE DESIGNED FOR A NET PRESSURE OF LESS THAN 16 PSF ULTIMATE ACTING IN EITHER DIRECTION.
6. PRESSURES SHOWN ARE ULTIMATE PRESSURES AND SHOULD BE MULTIPLIED BY 0.6 FOR NOMINAL (ASD) PRESSURES. USE A PERMANENT DEAD LOAD OF **6 PSF** FOR MEMBER NET UPLIFT DESIGN.

GENERAL STRUCTURAL NOTES

1. THIS DRAWING SET IS TO BE VIEWED AS A WHOLE AND COORDINATED WITH ARCHITECTURAL, MECHANICAL, CIVIL, AND OTHER DISCIPLINES. ALL WORK PERTAINING TO A SPECIFIC CONTRACTOR MAY OR MAY NOT BE SHOWN ON SPECIFIC DRAWING SECTIONS. IT IS EACH SUBCONTRACTOR'S RESPONSIBILITY TO PREPARE HIS BID FROM A COMPLETE SET OF PLANS.
2. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DIMENSIONS NOT SHOWN ON PLAN TO BE COORDINATED WITH ARCHITECTURAL PLANS.
3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ANY SIMILAR SITUATION ELSEWHERE ON THE JOB, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
4. THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN-PLACE" LOADS ONLY.
5. BRACE ALL BELOW GRADE WALLS UNTIL FLOOR STRUCTURE IS IN PLACE & CONCRETE OR PLYWOOD FLOOR DIAPHRAGM IS IN PLACE. UNBRACED WALLS SHALL NOT BE BACKFILLED MORE THAN 1/3 WALL HEIGHT UNTIL SOG, FLOOR FRAMING, AND DIAPHRAGM ARE IN PLACE.
6. THE GENERAL CONTRACTOR SHALL COORDINATE ALL OPENING SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
8. THE VARIOUS SUBCONTRACTORS ARE RESPONSIBLE FOR PLACING SLEEVES, OUTLET BOXES, ANCHORS, VENT OPENINGS, ETC. THAT MAY BE REQUIRED IN FOUNDATION WALLS. CONSTRUCTION MANAGER SHALL COORDINATE ALL PLACEMENT OF ITEMS IN FOUNDATION WALLS.
9. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND INFORMATION.
10. ALL ELEVATIONS GIVEN ARE REFERENCED TO FINISHED FLOOR ELEVATIONS AT 100'-0" OR 0'-0", UNLESS SHOWN AS USGS ELEVATIONS.
11. WHERE GENERAL NOTES OR TYPICAL DETAILS CONTRADICT INFORMATION PROVIDED IN BUILDING SECTIONS, THE BUILDING SECTIONS TAKE PRECEDENCE.
12. ALL HOLES THROUGH CONSTRUCTION SHALL BE CORE DRILLED OR SAWCUT.
13. WHERE INFORMATION PROVIDED IN THESE STRUCTURAL DRAWINGS CONTRADICTS INFORMATION PROVIDED IN PROJECT SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE.
14. FOR ARCHITECTURAL, MEP, & STRUCTURAL COORDINATION: MODELED ELEMENTS SHOWN ON STRUCTURAL DRAWINGS SUCH AS TRUSSES, OPEN-WEB JOISTS, AND JOIST GIRDERS, ARE NOT THE FINAL CONFIGURATION. ALL COORDINATION SHALL BE PERFORMED BETWEEN THE VARIOUS TRADES AND THE SUPPLIERS OF THESE ELEMENTS FOR THE STRUCTURE, NOT WITH THE STRUCTURAL MODEL.
15. THIS DRAWING SET IS TO BE VIEWED AS A WHOLE, ALL TYPICAL DETAILS AND GENERAL NOTES SHOWN IN THESE DRAWINGS ARE APPLICABLE TO THE PROJECT EVEN IF THEY ARE NOT SHOWN ON PLANS OR SECTIONS.
16. DESIRED ALTERATIONS TO ANY DETAIL, MEMBER SIZE, MEMBER TYPE, OR ANY OTHER STRUCTURAL COMPONENT SHOWN ON THE DRAWINGS, SHALL BE SUBMITTED AS A REQUEST IN WRITING TO CASE ENGINEERING. CASE ENGINEERING WILL NOT BE RESPONSIBLE FOR CHANGES TO THE DESIGN OR DETAILS MADE DURING SHOP DRAWINGS DEVELOPMENT, DURING CONSTRUCTION, OR AT ANY OTHER TIME WITHOUT WRITTEN CONSENT.

SHOP DRAWING AND SUBMITTAL NOTES

1. SHOP DRAWINGS AND/OR SUBMITTALS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS. UNLESS OTHERWISE NOTED, THESE SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH THESE CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS (IF APPLICABLE). CONTRACTOR SHALL ALLOW A MINIMUM OF 2 WEEKS FROM RECEIPT OF SHOP DRAWINGS FOR CASE ENGINEERING INC. TO PROVIDE RESPONSE.
2. PRIOR TO SUBMITTAL TO CASE ENGINEERING, THE CONTRACTOR AND ARCHITECT SHALL HAVE REVIEWED THE SHOP DRAWINGS AND MADE ANY CORRECTIONS REQUIRED. THE CONTRACTOR AND ARCHITECT SHALL STAMP THE DRAWINGS, INDICATING THE SUBMITTAL HAS BEEN REVIEWED.
3. STRUCTURAL DRAWINGS ARE THE SOLE PROPERTY OF CASE ENGINEERING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR USE IN SHOP DRAWING SUBMITTALS IS NOT ACCEPTABLE WITHOUT OUR WRITTEN AGREEMENT.
4. SHOP DRAWING REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE RESPONSIBILITY FOR FINAL COMPLETENESS AND CORRECTNESS SHALL RESIDE WITH THE PREPARER OF THE SHOP DRAWINGS.

EXCAVATION AND EARTHWORK NOTES

1. THE NET ALLOWABLE SOIL BEARING VALUE AND LATERAL EARTH PRESSURES USED IN THE FOUNDATION DESIGN IS BASED ON IBC CONSERVATIVE ENGINEERING VALUES:
   - SPREAD FOOTINGS — 1,500 psf
   - CONT. WALL FOOTINGS — 1,500 psf
   - ACTIVE PRESSURE — 60 psf/ft
   - AT-REST PRESSURE — 100 psf/ft
   - PASSIVE PRESSURE — 100 psf/ft (CONSERVATIVE PER IBC)
   - FRICTION COEFFICIENT — 0.25
2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY A SOILS ENGINEER TO VERIFY SUITABLE BEARING MATERIAL OF CAPACITY AS SPECIFIED.
3. NOTIFY THE OWNER'S REPRESENTATIVE WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.
4. THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS WERE PLACED ON SOIL WITH THE BEARING VALUE AS SPECIFIED.
5. WITHIN THE EXCAVATION AREA OF FOUNDATIONS, ALL VEGETATION, TOPSOIL, PREVIOUSLY PLACED FILL AND UNSUITABLE SOILS SHALL BE REMOVED. ALL FOOTINGS TO BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
6. FOUNDATION DESIGN DOES NOT ACCOUNT FOR WINTER CONSTRUCTION. ANY UNENCLOSED / UNHEATED SPACES SHALL BE ADEQUATELY PROTECTED AGAINST FROST DURING WINTER CONSTRUCTION BY THE CONTRACTOR.
7. IF ANY SOFT SPOTS, OR AREAS QUESTIONABLE FOR ANY REASONS ARE ENCOUNTERED BY THE CONTRACTOR, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT ANY REQUIRED ACTION MAY BE TAKEN PRIOR TO CONTINUATION OF CONSTRUCTION IN THAT AREA.

POST-INSTALLED ANCHOR NOTES

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM CASE ENGINEERING PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THESE DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO CASE ENGINEERING ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING, AT A MINIMUM, THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE BUILDING CODE.

1. TYPICAL POST-INSTALLED ANCHORS IN CONCRETE AND CMU SHALL COMPLY WITH THE LATEST OF THEIR RESPECTIVE ICC EVALUATION REPORTS.
2. WHEN INSTALLING ANCHORS IN CONCRETE AND CMU, CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL, CONDUITS, ETC, PRIOR TO DRILLING FOR ANCHORS. CONTRACTOR SHALL USE CARE AND CAUTION TO PREVENT DAMAGE TO EXISTING REINFORCING BARS.
3. CONTRACTOR SHALL PROVIDE 1" MINIMUM CLEARANCE BETWEEN EDGES OF ANY HOLES FOR POST-INSTALLED ANCHORS AND EXISTING REINFORCING STEEL.
4. CONTRACTOR SHALL PROVIDE INSPECTION AND TESTING AS REQUIRED PER THE "SPECIAL INSPECTIONS" SECTION OF THESE GENERAL STRUCTURAL NOTES.
5. CONTRACTOR SHALL USE A HOLLOW DRILL BIT AND VACUUM SYSTEM WHEN DRILLING INTO CEMENTITIOUS MATERIALS.

EXISTING CONSTRUCTION NOTES

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.
2. ALL HOLES THROUGH EXISTING CONSTRUCTION SHALL BE CORE-DRILLED OR SAWCUT. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE. DO NOT TORCH CUT.
3. PRIOR TO SUBMITTING ANY SHOP DRAWINGS, DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION SHALL BE SURVEYED BY THE GC AND PROVIDED TO THE SHOP DRAWING DETAILERS.
4. NOTIFY CASE ENGINEERING IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND STRUCTURAL DRAWINGS.
5. FOR ALL EXISTING CONSTRUCTION: DUE TO LIMITED OBSERVATION, OR NOT BEING ABLE TO VISIT THE EXISTING BUILDING DURING THE PREPARATION OF THESE DOCUMENTS, CASE ENGINEERING HAS ASSUMED THE EXISTING STRUCTURE IS IN LIKE-NEW CONDITION WITH NO CORROSION, DETERIORATION, OR DAMAGE, AND WAS CONSTRUCTED PER ANY ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED (IF ANY EXIST). CONTRACTOR SHALL VERIFY THESE ASSUMPTIONS TO THE BEST OF THEIR ABILITY AND NOTIFY CASE ENGINEERING OF ANY CONCERNS, ISSUES, OR DISCREPANCIES.
6. CONTRACTOR TO VERIFY TOP OF ROOF SLOPE IS AT LEAST 1/4 INCH PER FOOT AFTER PLACEMENT OF ANY NEW LOADS APPLIED TO ROOF OR HUNG FROM ROOF FRAMING. LOADS FROM NEW OR REPLACED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, ROOF TOP MECHANICAL UNITS (RTU'S) AND ASSOCIATED DUCTWORK, HUNG HOODS, MAKE-UP AIR UNITS, CONDENSERS, COMPRESSORS, EXHAUST FANS, HUNG TRANSFORMERS, ROOFTOP GENERATOR(S), RE-ROOF MATERIALS, NEW CEILINGS, HUNG SIGNAGE, HUNG SPRINKLER PIPING, ETC. ALSO VERIFY THAT ALL ROOF DRAINS AND ANY WALL SCUPPERS ARE CLEAR AND FREE-DRAINING. REPORT RESULTS IN WRITING TO ARCHITECT AND STRUCTURAL ENGINEER AS SOON AS PRACTICAL DURING THE CONSTRUCTION PROCESS.

CONCRETE NOTES

1. ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING, FINISHING AND CURING SHALL BE DONE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301 LATEST EDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE MIX DESIGN SUPPLIER TO PROPORTION MIXES APPROPRIATELY TO REACH THE REQUIRED PROPERTIES NOTED, AND SHALL BE APPROPRIATE FOR THEIR INTENDED USE. ADMIXTURES MEETING ASTM C494 ARE OPTIONAL. HOWEVER, AIR-ENTRAINING ADMIXTURES MEETING ASTM C260 SHALL BE USED FOR CONCRETE EXPOSED TO THE EXTERIOR OR FREEZE-THAW CYCLES.
3. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR EACH INTENDED USE ON THE PROJECT FOR REVIEW AND APPROVAL BY CASE ENGINEERING. CONTENTS OF THE MIX DESIGN SHALL COMPLY WITH, AND INCLUDE ALL INFORMATION REQUIRED BY, ACI 318, CHAPTER 5 (FOR 2011 AND EARLIER CODE EDITIONS), & CHAPTER 26 (FOR 2014 CODE EDITION). THIS INCLUDES, BUT IS NOT LIMITED TO NUMBER OF TESTS AND AGE OF TESTS INCLUDED IN THE MIX DESIGN REPORT.
4. ALL CONCRETE DENSITY SHALL BE NORMAL WEIGHT (145 pcf +/- 5) UNLESS OTHERWISE INDICATED. LIGHT WEIGHT CONCRETE SHALL BE 110 pcf +/- 5, UNO.
5. FLY ASH ALLOWANCES:
   - 20% MAXIMUM BY WEIGHT OF CEMENTITIOUS IN FOOTINGS
   - 15% MAXIMUM BY WEIGHT OF CEMENTITIOUS MATERIAL IN SLABS
   - 0% (NONE) IN SLABS TO RECEIVE SHAKE ON HARDENERS
6. COORDINATE CONCRETE WORK WITH THAT OF OTHER TRADES TO ALLOW FOR SETTING OF SLEEVES, ACCESSORIES, ETC.
7. ALL REINFORCING STEEL, ANCHOR RODS, DOWELS, AND INSERTS SHALL BE WELL-SECURED IN POSITION PRIOR TO PLACING CONCRETE. DO NOT "WET SET" OR "FLOAT" INTO CONCRETE.
8. TEST CYLINDERS WILL BE REQUIRED, AND RECORDS OF RESULTS SHALL BE SUBMITTED TO CASE ENGINEERING. PROVIDE A MINIMUM OF (4) 6"x12" OR (5) 4"x8" CYLINDERS OF EACH MIX DESIGN FOR TESTING AT THE FREQUENCIES LISTED BELOW. TEST 1 AT 7 DAYS, 2 AT 28 DAYS FOR 6"x12" CYLINDERS, OR 3 AT 28 DAYS FOR 4"x8" CYLINDERS. KEEP 1 SPARE FOR FURTHER TESTING IF NEEDED. CYLINDERS SHALL BE TAKEN AND TESTED NO LESS THAN THE FOLLOWING: (SLUMP TESTS ARE RECOMMENDED)
   A. ONCE A DAY
   B. FOR EACH 150 CUBIC YARDS POURED
   C. FOR EACH 5,000 SQ. FT. OF SURFACE AREA POURED
9. CONSTRUCTION JOINTS IN CONCRETE INDICATED WITH A ROUGH, CLEAN SURFACE SHALL HAVE A 1/4" AVERAGE AMPLITUDE.
10. ALL COLD JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING CONCRETE.
11. SLUMP: CONCRETE MIXES SHALL BE PROPORTIONED TO ACHIEVE A MAXIMUM SLUMP OF 8" FOR CONCRETE CONTAINING HIGH RANGE WATER REDUCING ADMIXTURE. 6" FOR CONCRETE CONTAINING A MID-RANGE WATER REDUCING ADMIXTURE. MIXES SHALL HAVE A WATER SLUMP OF 2"-3" PRE-ADDITIVE (3" TO 4" FOR CONCRETE RECEIVING A "DRY-SHAKE" HARDENER). MAXIMUM 4" WATER SLUMP FOR ALL OTHER CONCRETE NOT CONTAINING A WATER REDUCER.
12. DEPOSIT AND CONSOLIDATE CONCRETE FOR FLOORS AND SLABS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF CONSTRUCTION JOINTS, UNTIL PLACEMENT OF A PANEL OR SECTION IS COMPLETE.
    A. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.
    B. MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.
    C. SCREED SLAB SURFACES WITH A STRAIGHT EDGE AND STRIKE OFF TO CORRECT ELEVATIONS.
    D. UTILIZE A VIBRATORY SCREED FOR CONCRETE THAT WILL RECEIVE DIAMOND POLISH FINISH. KEEP VIBRATING SCREED MOVING CONTINUOUSLY ACROSS SURFACE. DO NOT STOP SCREED IN ANY ONE PLACE WHILE VIBRATING.
    E. SLOPE SURFACES UNIFORMLY TO DRAINS WHERE REQUIRED.
    F. BEGIN INITIAL FLOATING USING BULL FLOATS OR DARBIES TO FORM A UNIFORM AND OPEN-TEXTURED SURFACE PLANE BEFORE EXCESS BLEED WATER APPEARS ON THE SURFACE. DO NOT FURTHER DISTURB SLAB SURFACES BEFORE STARTING FINISHING OPERATIONS.
    G. THE USE OF HIGHWAY STRAIGHT EDGES OR "BUMP CUTTERS" ON CONCRETE SLABS TO BE POLISHED IS PROHIBITED.
13. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
    A. AIR ENTRAINMENT IS NOT RECOMMENDED FOR SURFACES TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH. COORDINATE FINISH REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATIONS.

CONCRETE TABLE

INTENDED USE	EXPOSURE CLASS	MIN 28 DAY STRENGTH (psi)	MAX WATER-CEMENT RATIO	% TOTAL AIR LIMITS	% MAX SHRINKAGE @ 28 DAYS
FOOTING & FOUNDATION WALLS	F2	4,500	0.45	4.5 TO 7.5	0.05

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WEST MIDDLE SCHOOL

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Parkway PN #
Building Renovation

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Project No: 25091

Revisions

Description	Date
REV-2 ADDM 1	07-28-2026

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NUMBER PE-2010036255
PROFESSIONAL ENGINEER
07/29/26

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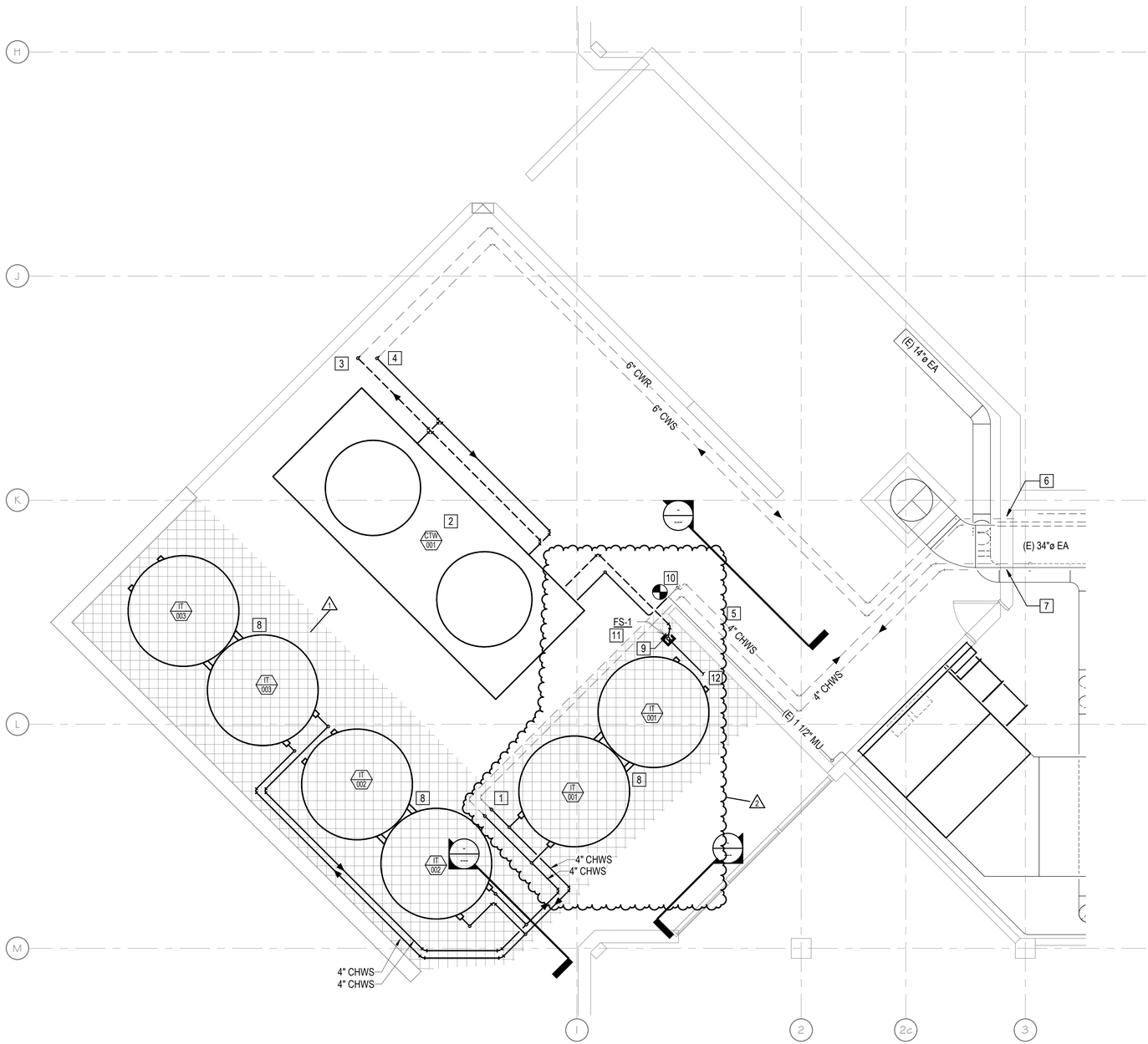
DATE: 2026-06-22

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GENERAL NOTES

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MECHANICAL COURTYARD CONSTRUCTION PLAN
M102 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO PIPING SCHEMATIC LAYOUTS FOR SPECIFIC EQUIPMENT AND PIPING SYSTEM VALVE REQUIREMENTS.

KEYED NOTES

1. ROUTE (2) 4" CHILLED WATER SUPPLY PIPES UP FROM BELOW GRADE AND ROUTE ALONG HOUSEKEEPING PAD AS SHOWN. PROVIDE MECHANICAL PIPE SLEEVE THROUGH SLAB.
2. INSTALL NEW COOLING TOWER ON EXISTING STRUCTURAL PAD.
3. ROUTE 6" CONDENSER WATER RETURN PIPING FROM COOLING TOWER DOWN BELOW GRADE.
4. ROUTE 6" CONDENSER WATER SUPPLY PIPING UP FROM BELOW GRADE AND CONNECT TO COOLING TOWER.
5. ROUTE 6" CONDENSER WATER SUPPLY AND RETURN AND (2) 4" CHILLED WATER SUPPLY BELOW GRADE AS SHOWN.
6. CONNECT NEW 6" CONDENSER WATER SUPPLY AND RETURN LINES TO EXISTING PIPING AT WALL BELOW GRADE.
7. ROUTE (2) 6" CHILLED WATER SUPPLY PIPING THROUGH WALL BELOW GRADE.
8. INSTALL NEW ICE STORAGE TANKS ON NEW STRUCTURAL CONCRETE PADS. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.
9. INSTALL NEW 3" DRAIN LINE AND TERMINATE OVER FLOOR SINK. (2)
10. CONNECT NEW 1 1/2" MAKEUP WATER LINE TO EXISTING 1 1/2" MAKE UP WATER LINE.
11. FLOOR SINK, FS-1, BASIS OF DESIGN: JR SMITH MODEL 3450, PROVIDE WITH A.R.C. SOLID COVER. FIELD CUT COVER TO TERMINATE WITHIN FLOOR SINK BASIN. INSTALL FLOOR SINK ABOVE FINISHED LEVEL OF SLAB TO AVOID SEDIMENT WASHING INTO BASIN.
12. SEE CIVIL DRAWINGS FOR CONTINUATION OF UNDERGROUND SANITARY LINE.

(2)

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WEST MIDDLE SCHOOL CHILLER

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Parkway Project #: PN4325018
Cooling Tower & Chillers Replacement

Parkway School District
363 N. Woods Mill Rd., Chesterfield, MO 63017
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Project No: 25091

Revisions

No.	Description	Date
1	REV 1	2026-07-22
2	ADDENDUM 1	8/25/2026

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MECHANICAL YARD - NEW WORK

M102

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